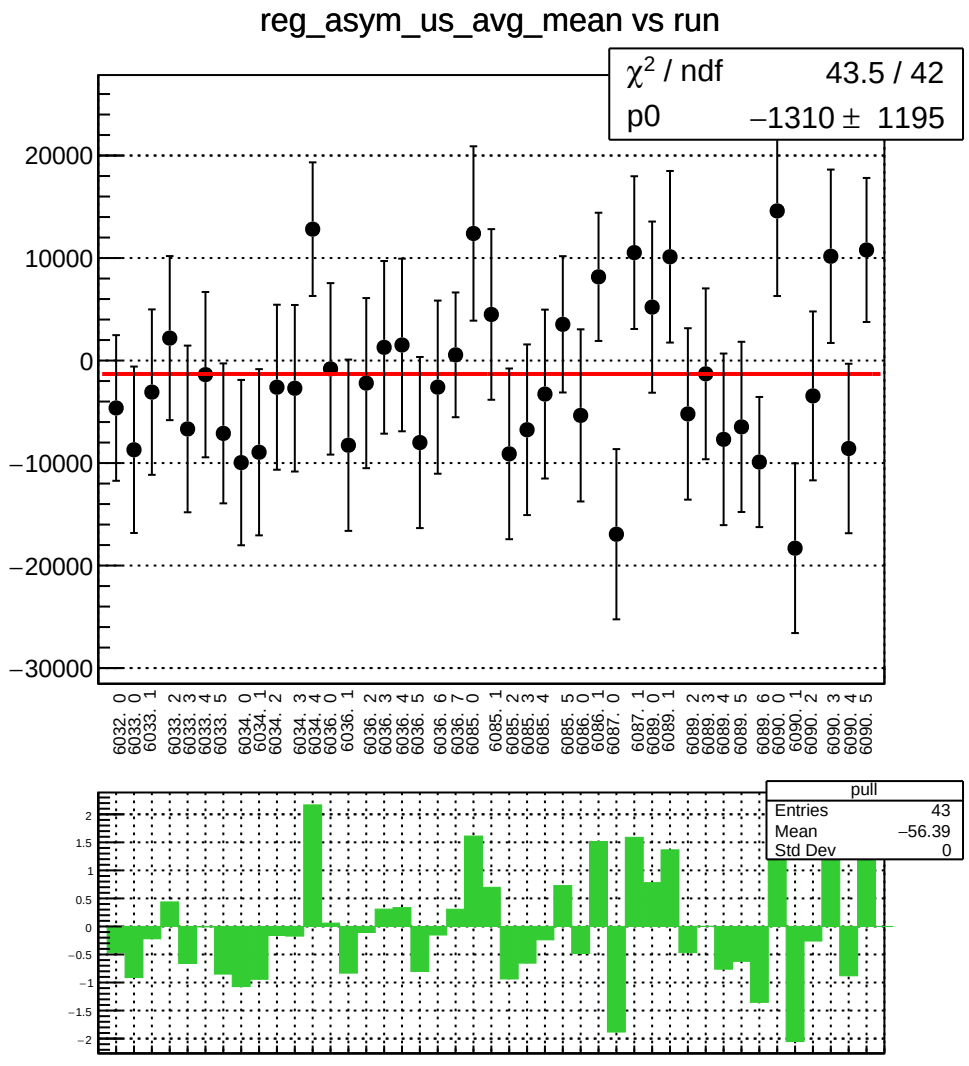
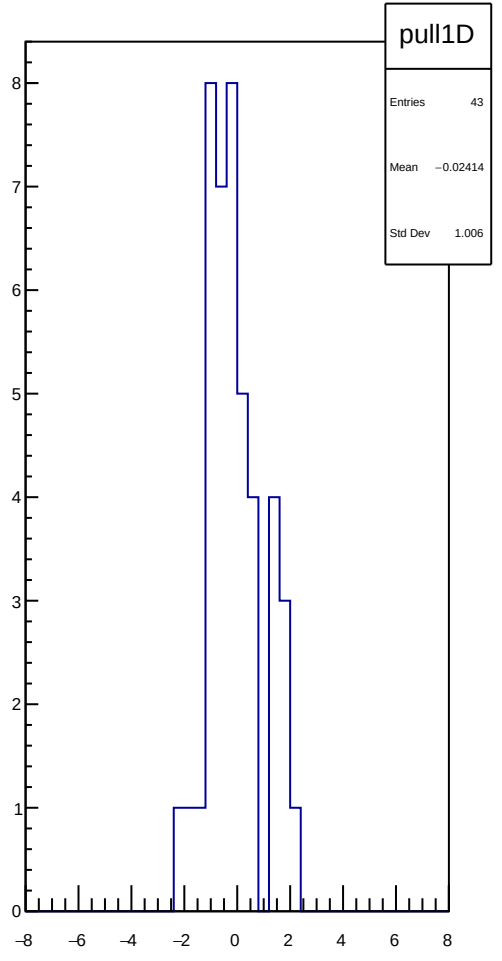
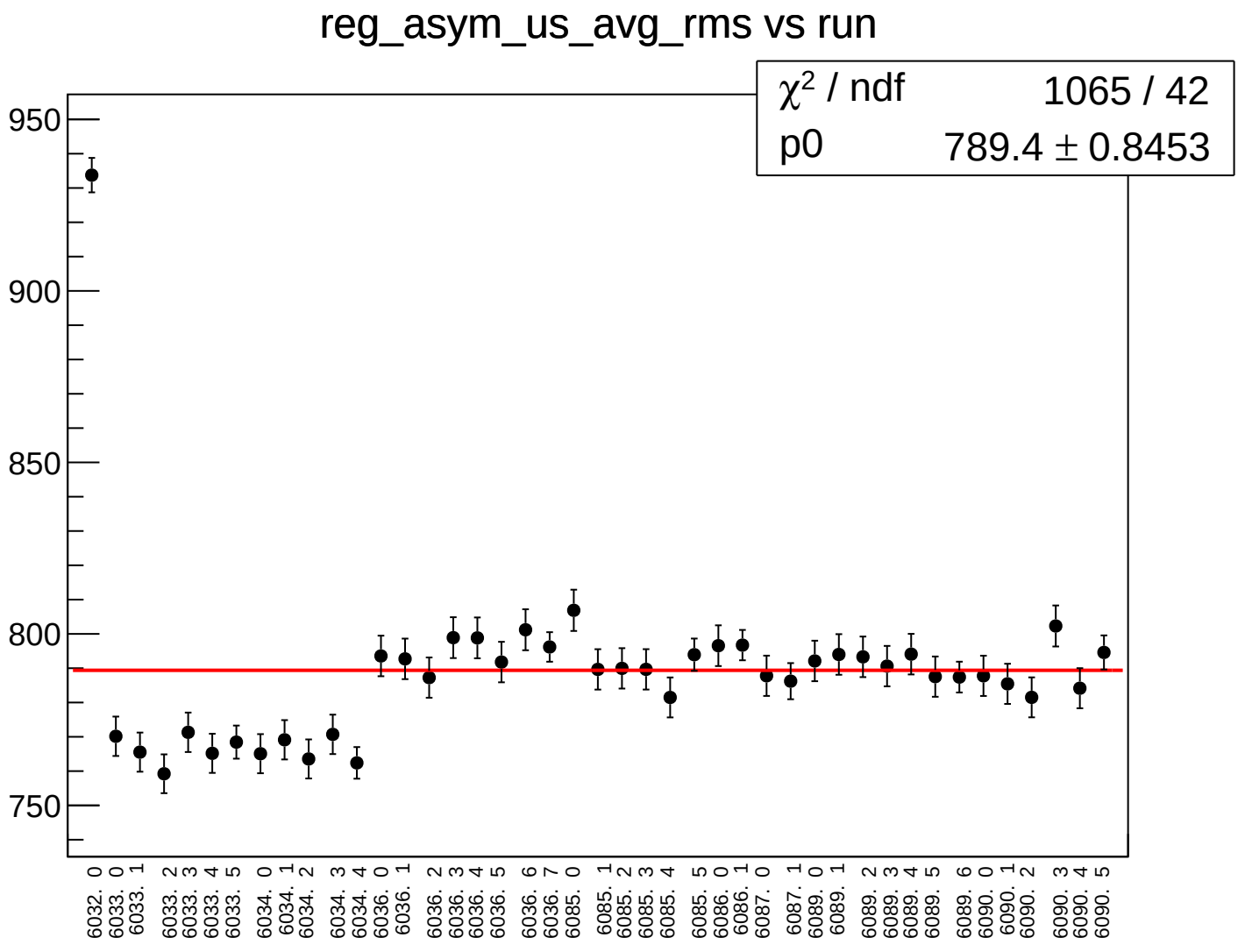
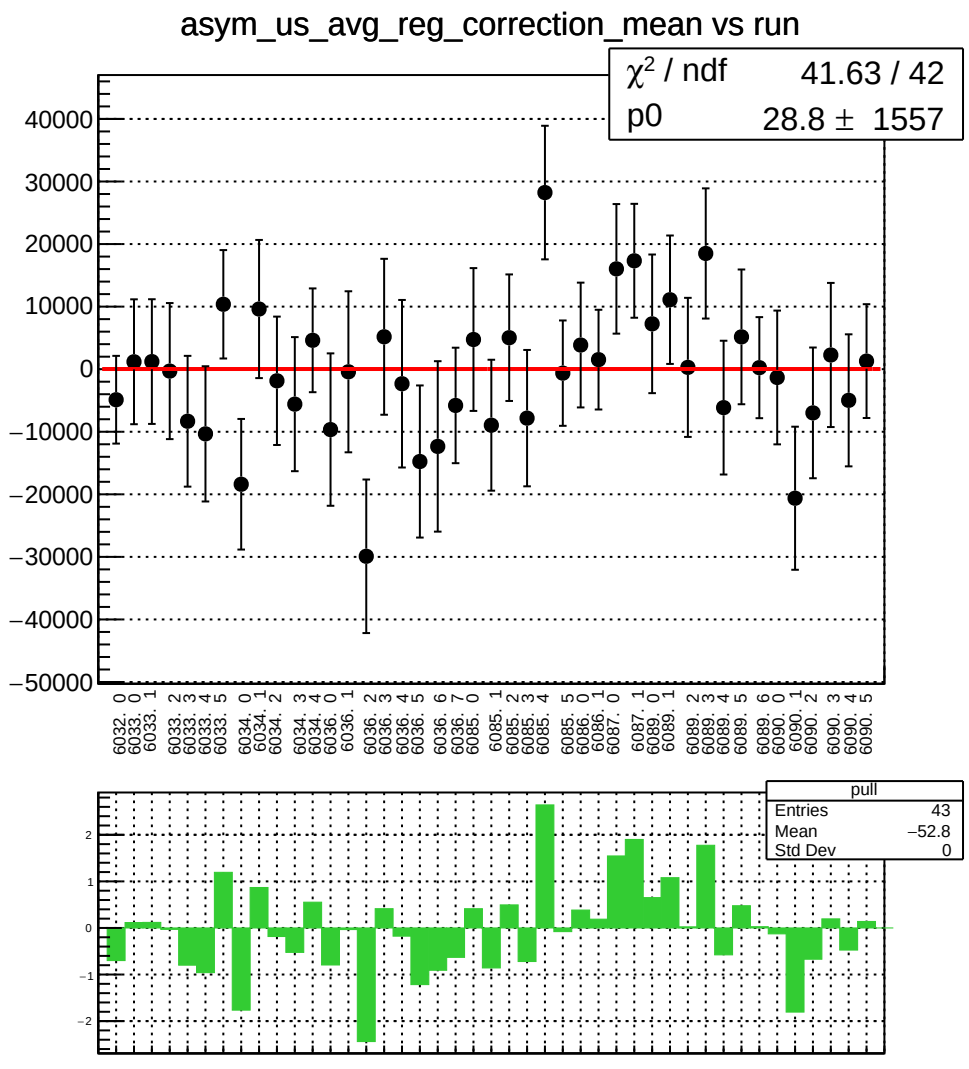
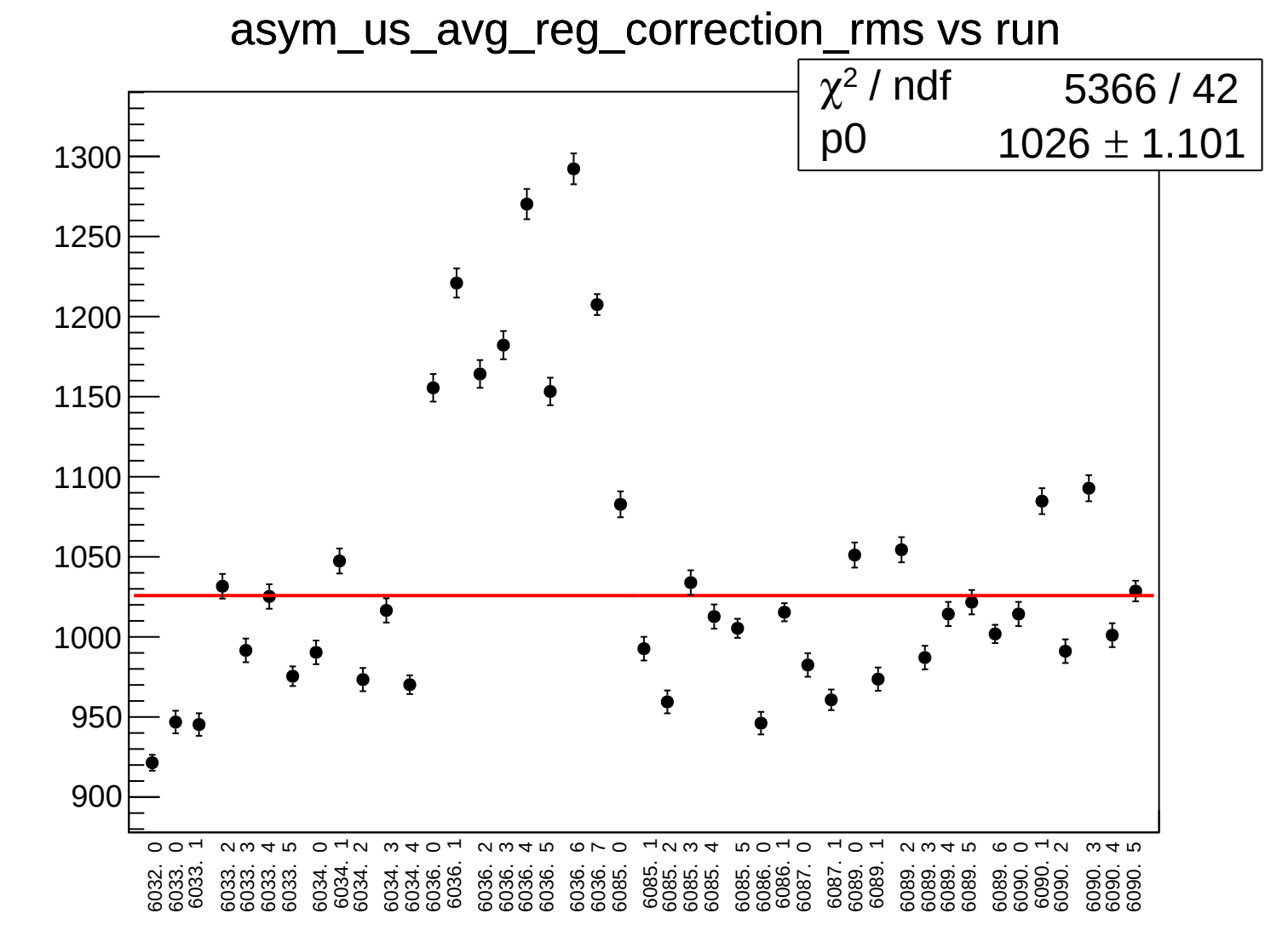
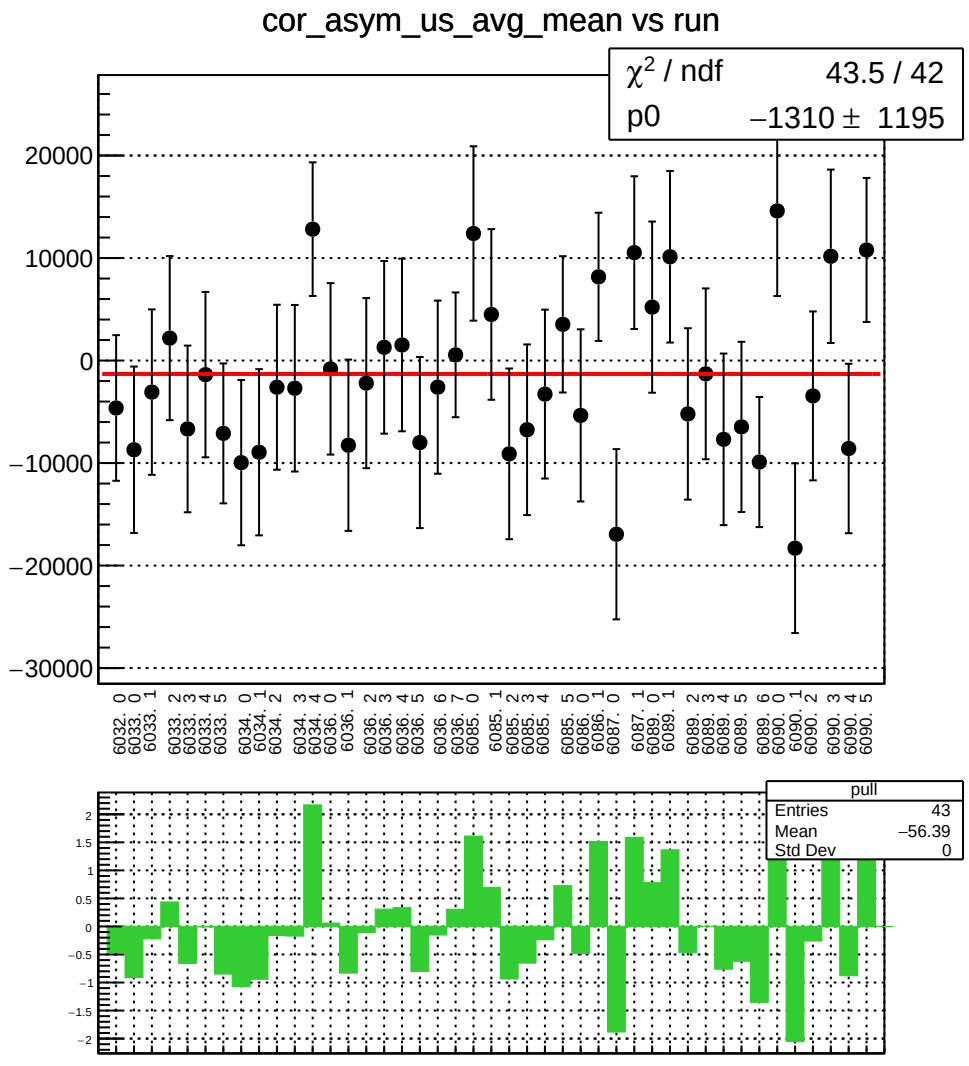

reg_asym_us_avg_mean vs run
χ² / ndf 43.5 / 42
p0 −1310 ± 1195
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

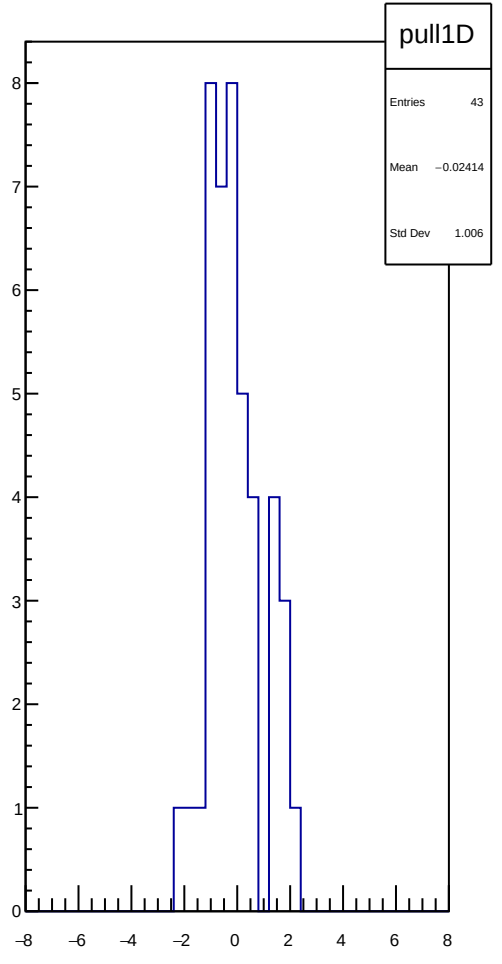

pull1D
Entries 43
Mean −0.02414
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ² / ndf 1065 / 42
p0 789.4 ± 0.8453
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_reg_correction_mean vs run
χ² / ndf 41.63 / 42
p0 28.8 ± 1557
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −52.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02965
Std Dev 0.9835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 5366 / 42
p0 1026 ± 1.101
1300
1250
1200
1150
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_us_avg_mean vs run
χ² / ndf 43.5 / 42
p0 −1310 ± 1195
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02414
Std Dev 1.006
8
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1
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−8
−6
−4
−2
0
2
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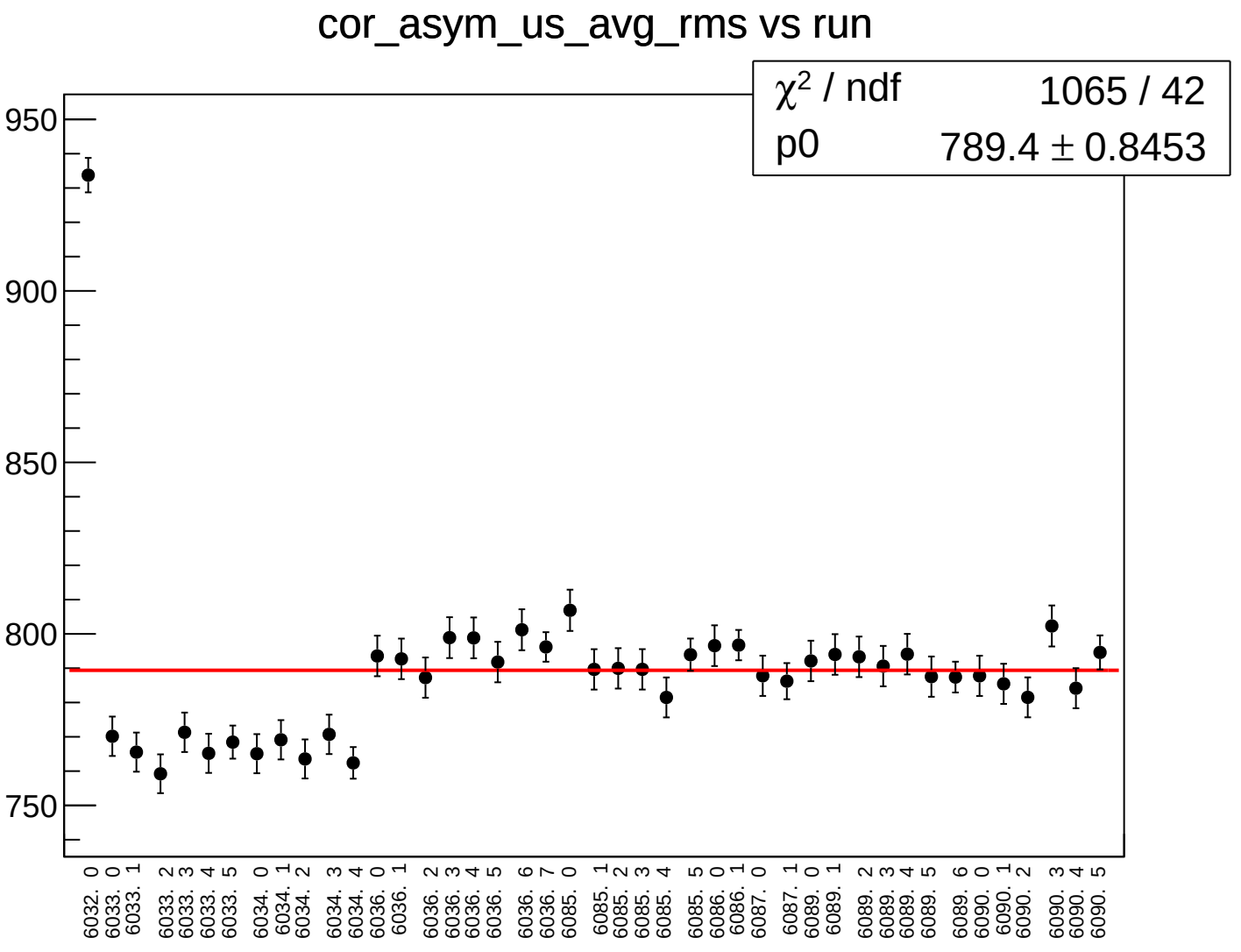
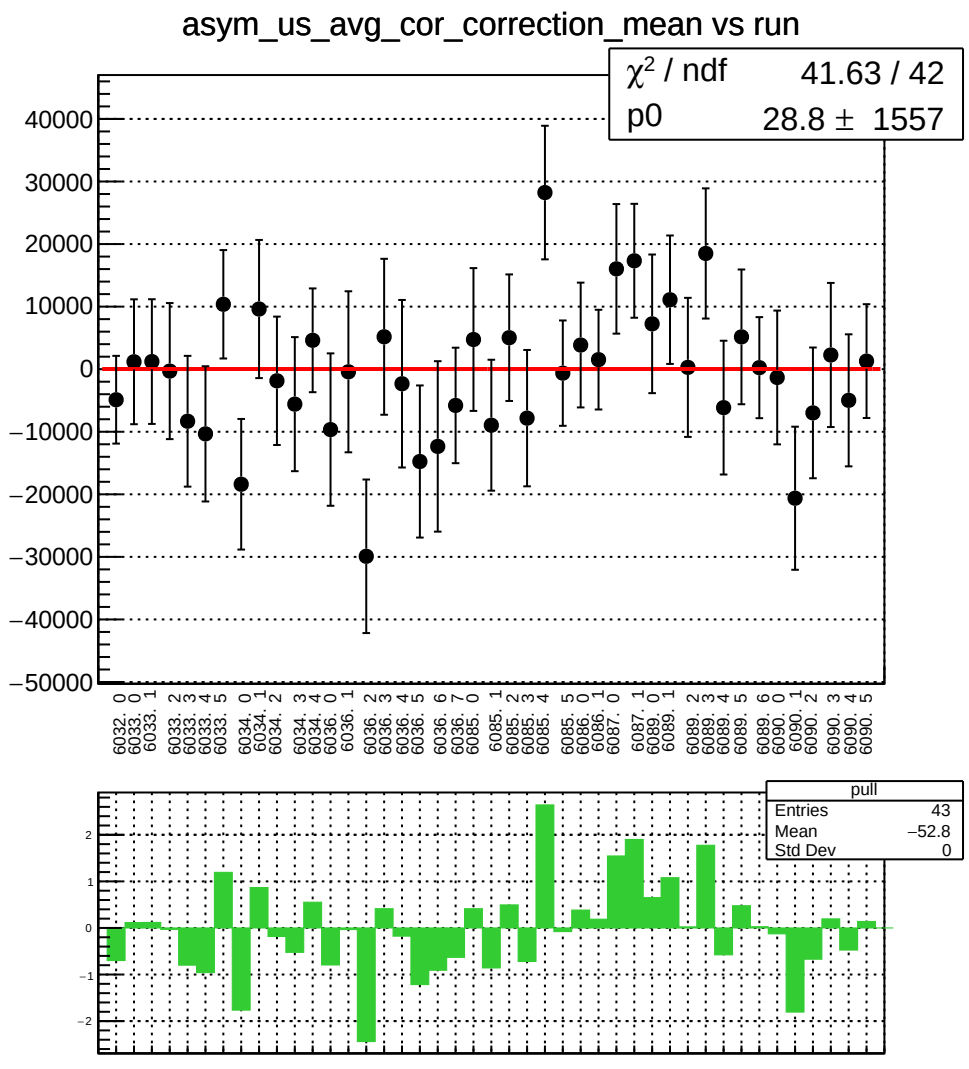
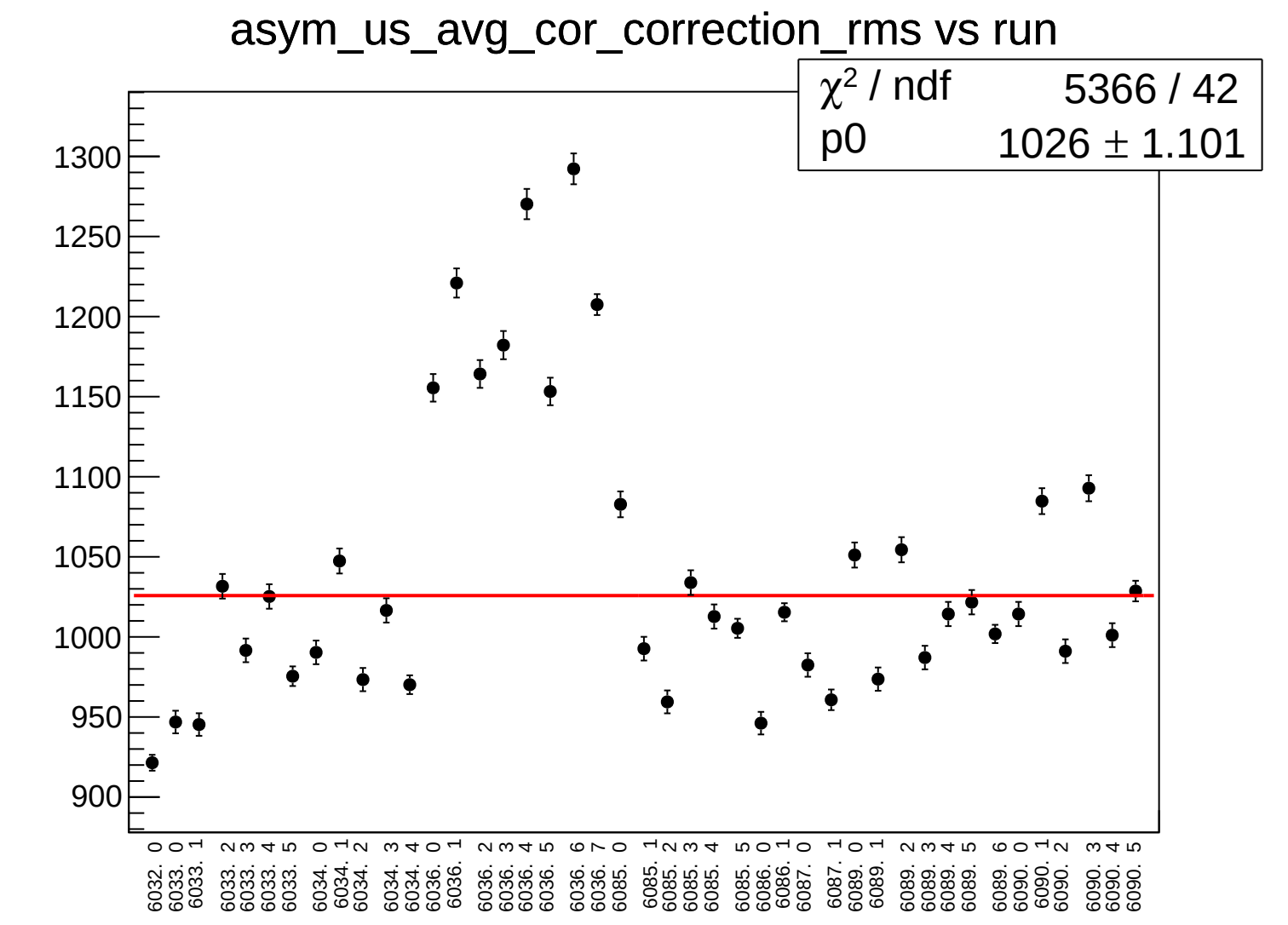
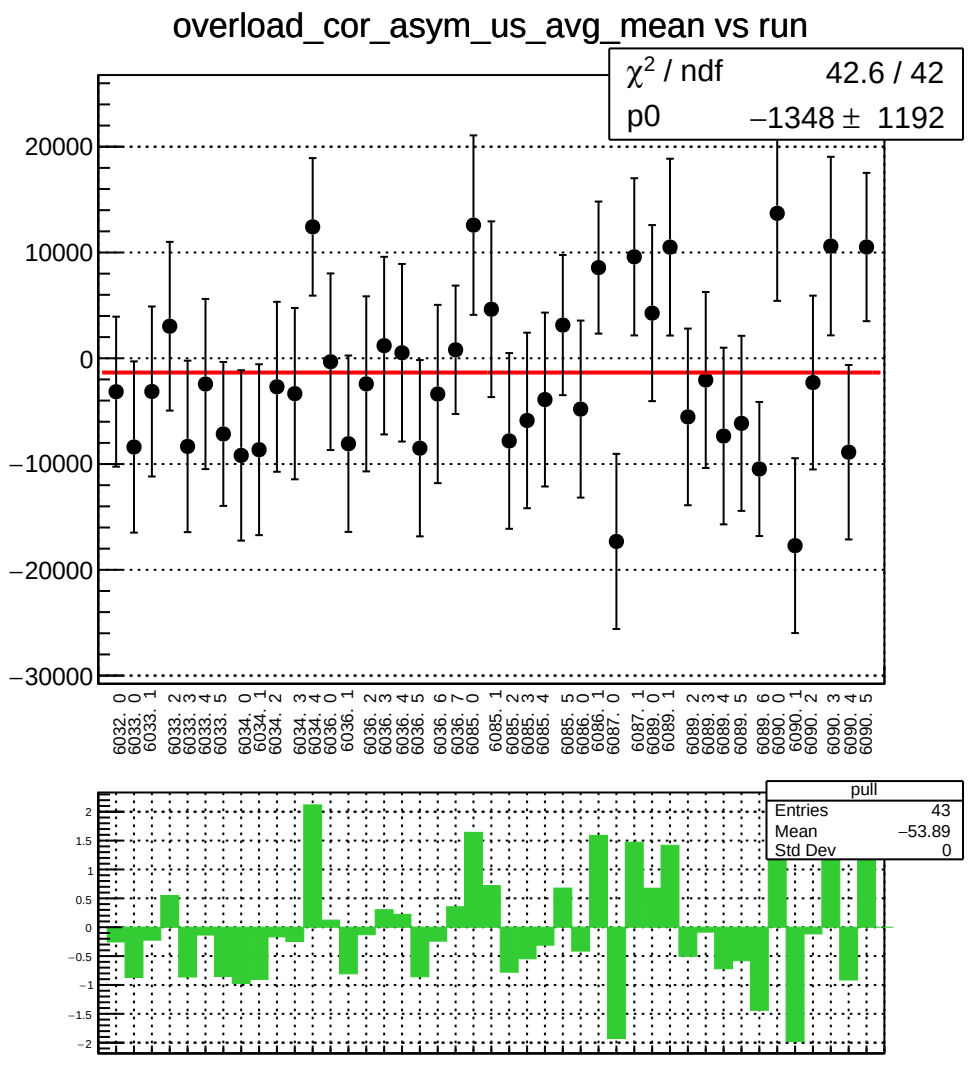
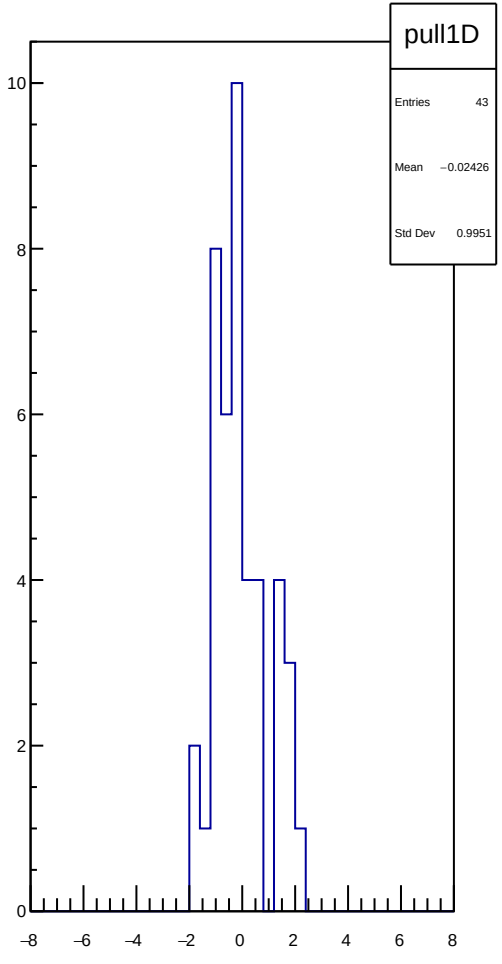
8

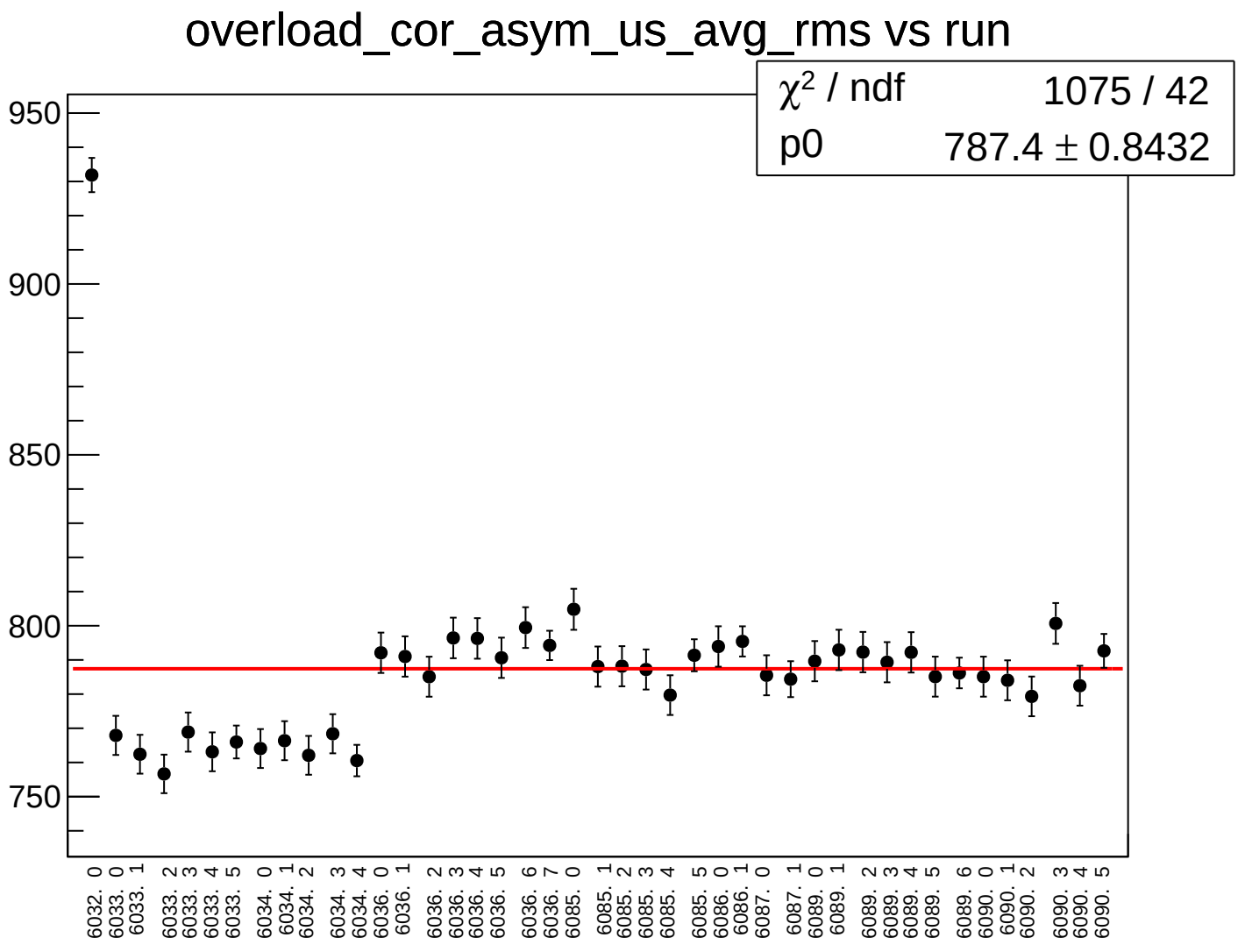

cor_asym_us_avg_rms vs run
χ² / ndf 1065 / 42
p0 789.4 ± 0.8453
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

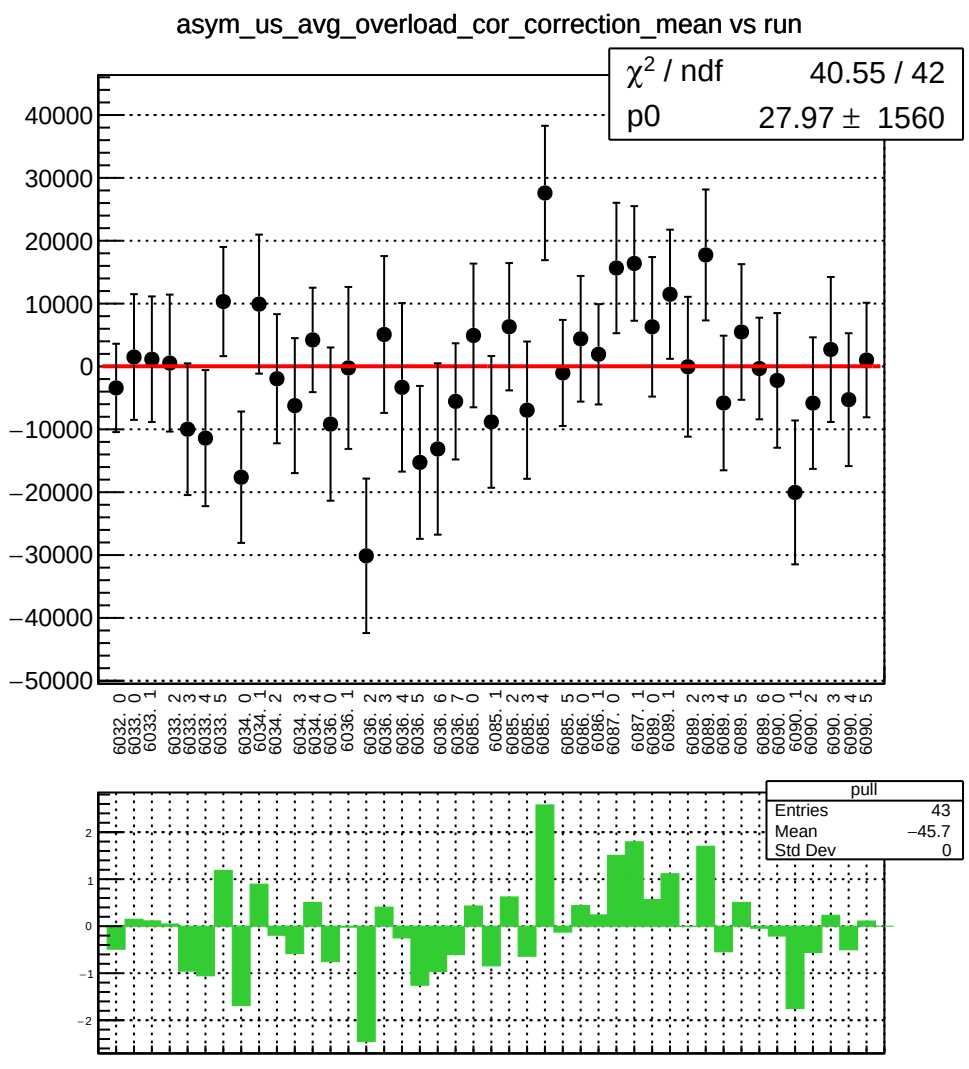

asym_us_avg_cor_correction_mean vs run
χ² / ndf 41.63 / 42
p0 28.8 ± 1557
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −52.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02965
Std Dev 0.9835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

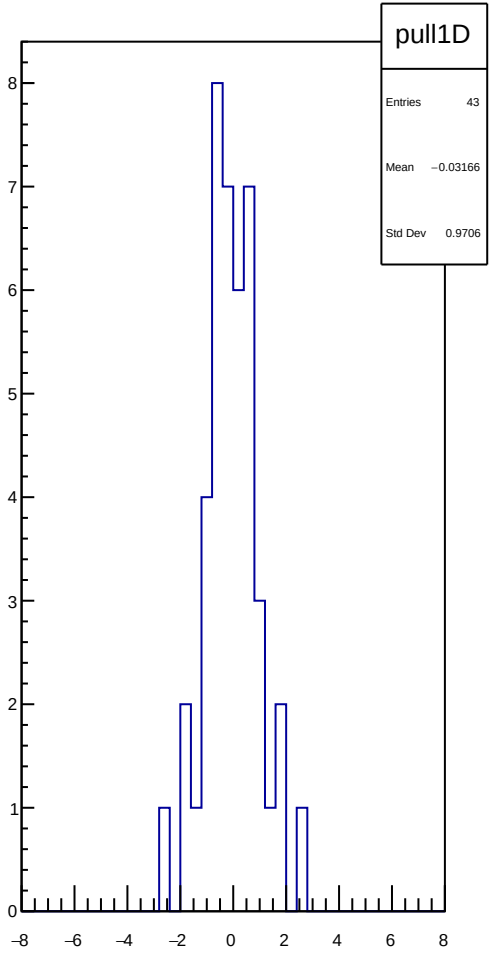

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5366 / 42
p0 1026 ± 1.101
1300
1250
1200
1150
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

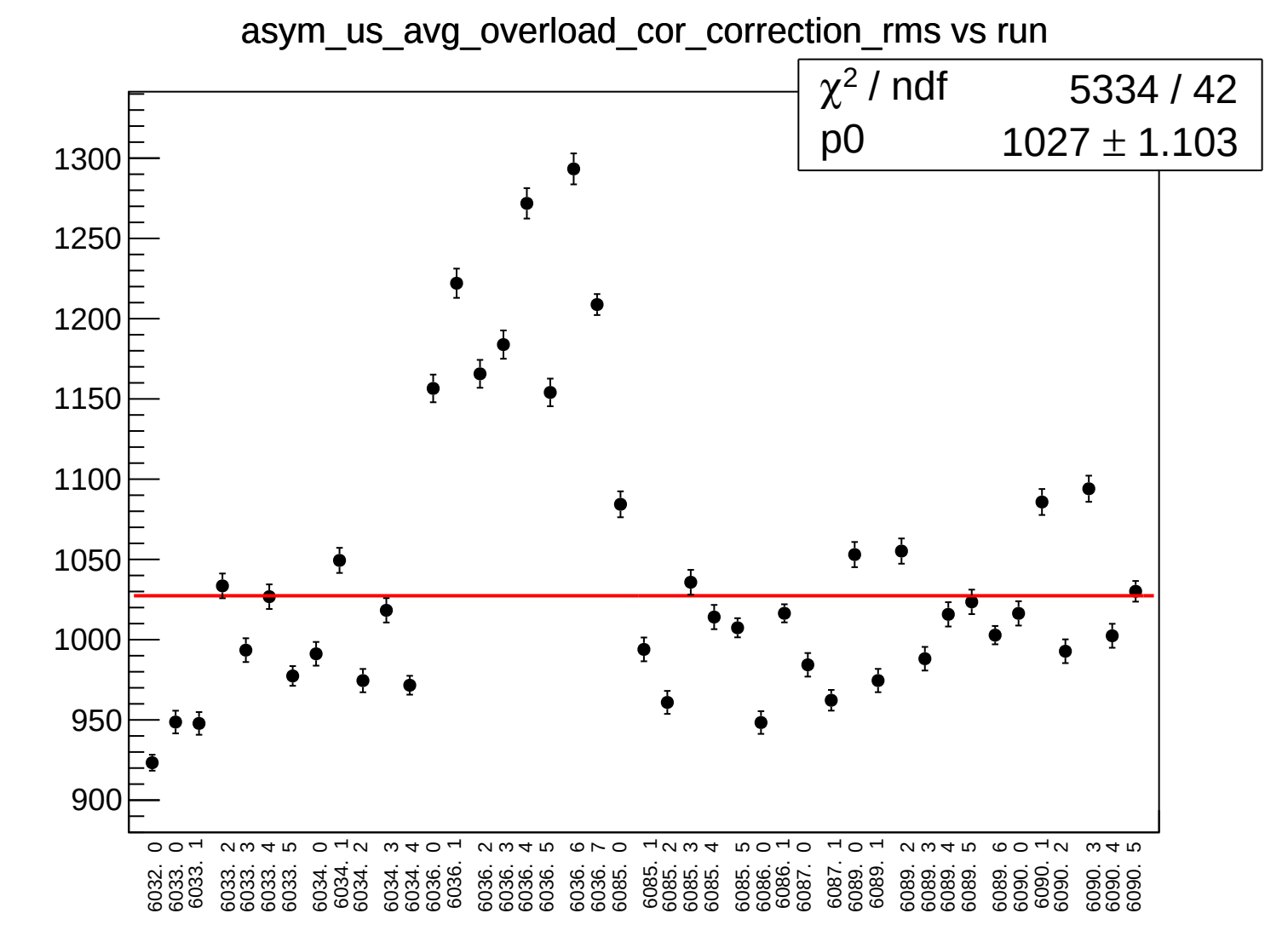

overload_cor_asym_us_avg_mean vs run
χ² / ndf 42.6 / 42
p0 −1348 ± 1192
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −53.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

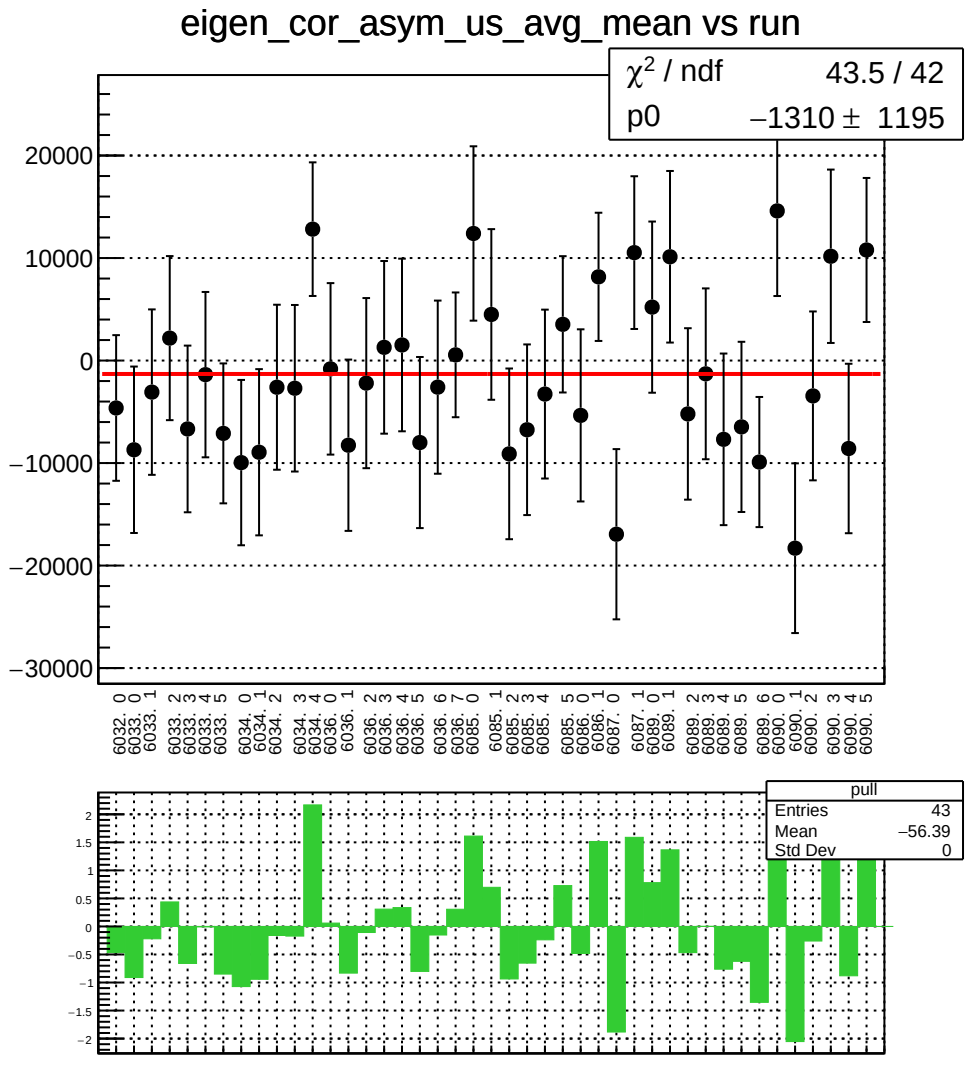

pull1D
Entries 43
Mean −0.02426
Std Dev 0.9951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

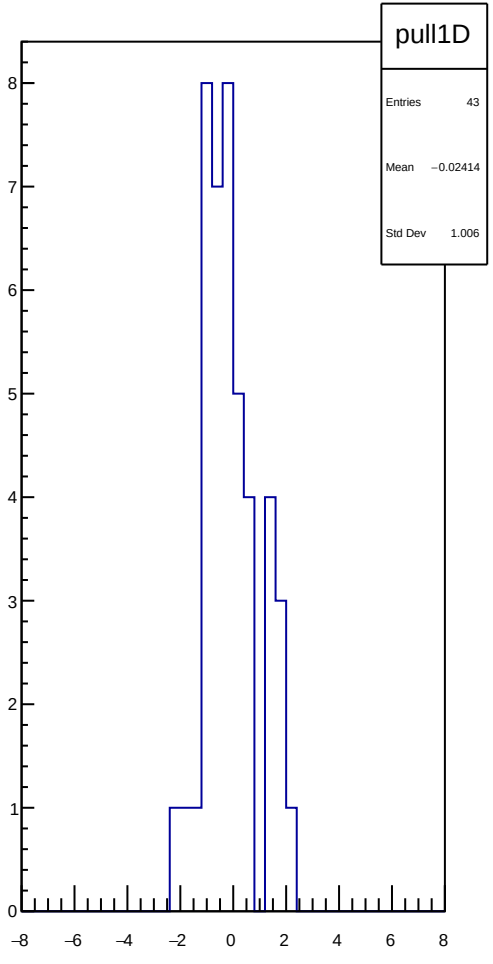

overload_cor_asym_us_avg_rms vs run
χ² / ndf 1075 / 42
p0 787.4 ± 0.8432
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

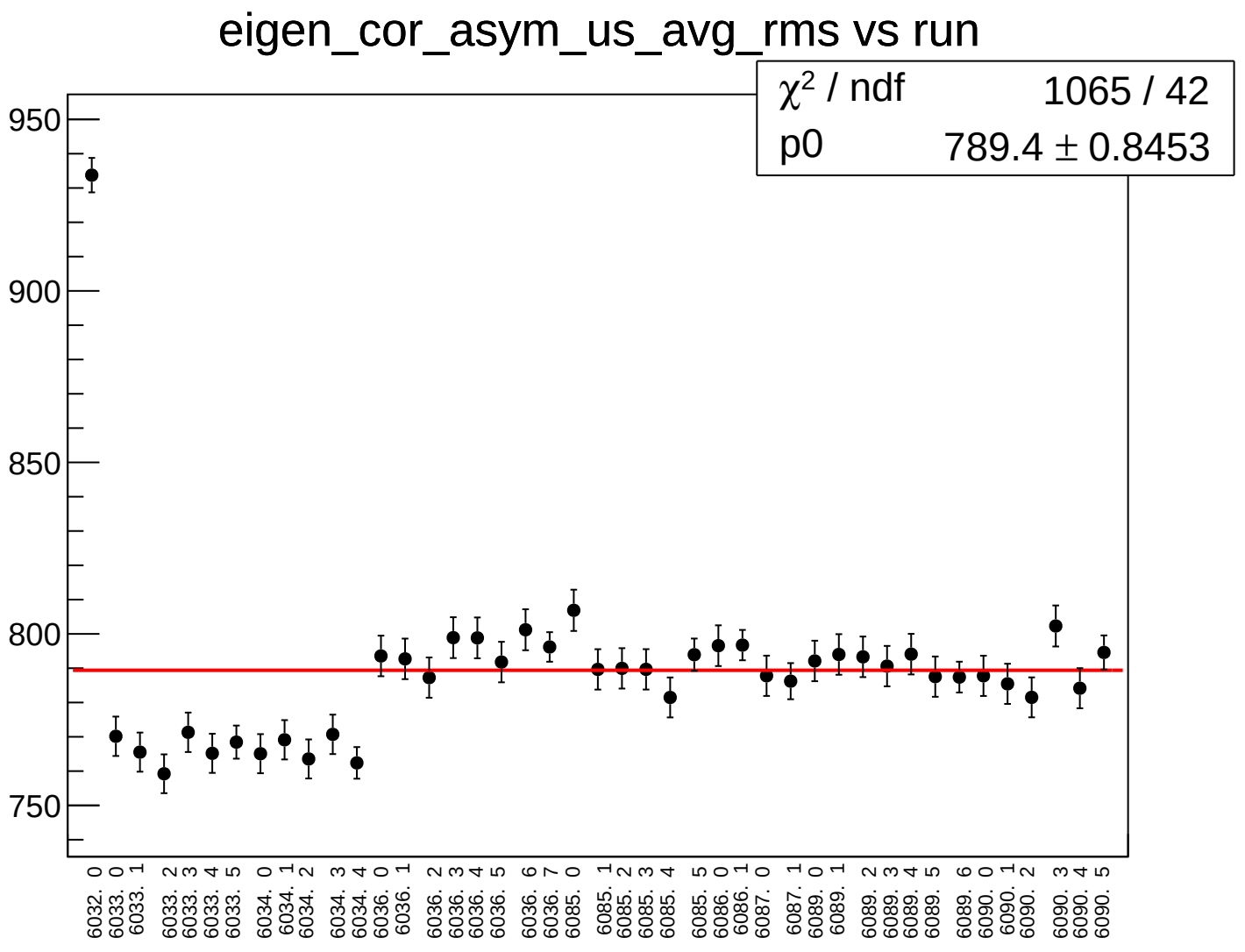

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 40.55 / 42
p0 27.97 ± 1560
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −45.7
Std Dev 0
2
1
0
−1
−2

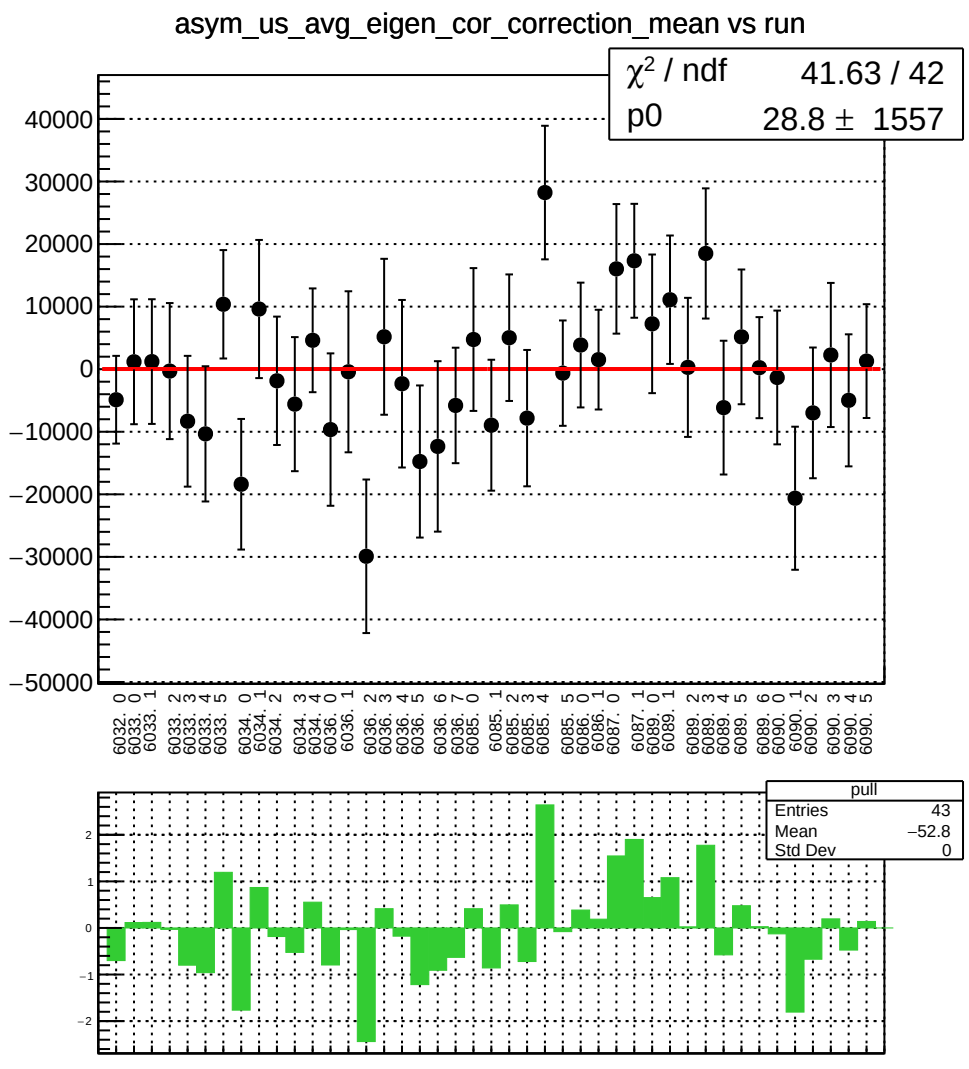

pull1D
Entries 43
Mean −0.03166
Std Dev 0.9706
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

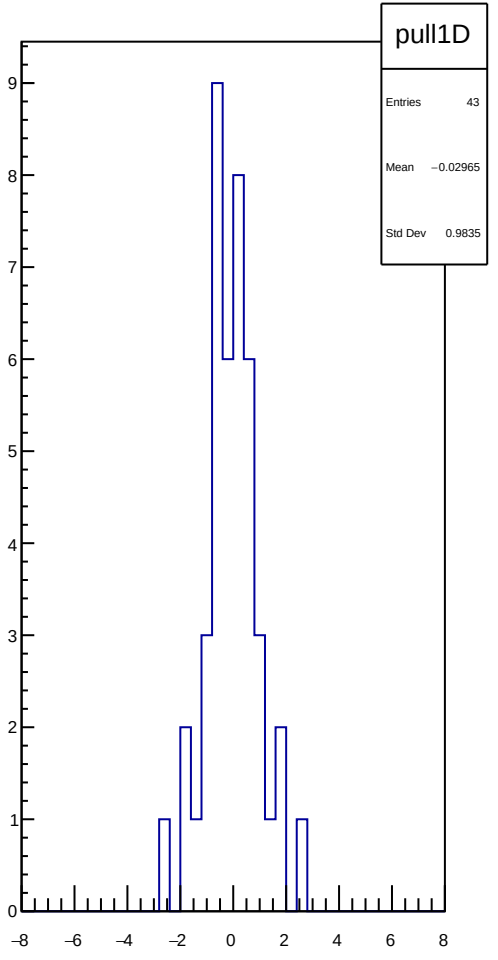

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5334 / 42
p0 1027 ± 1.103
1300
1250
1200
1150
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

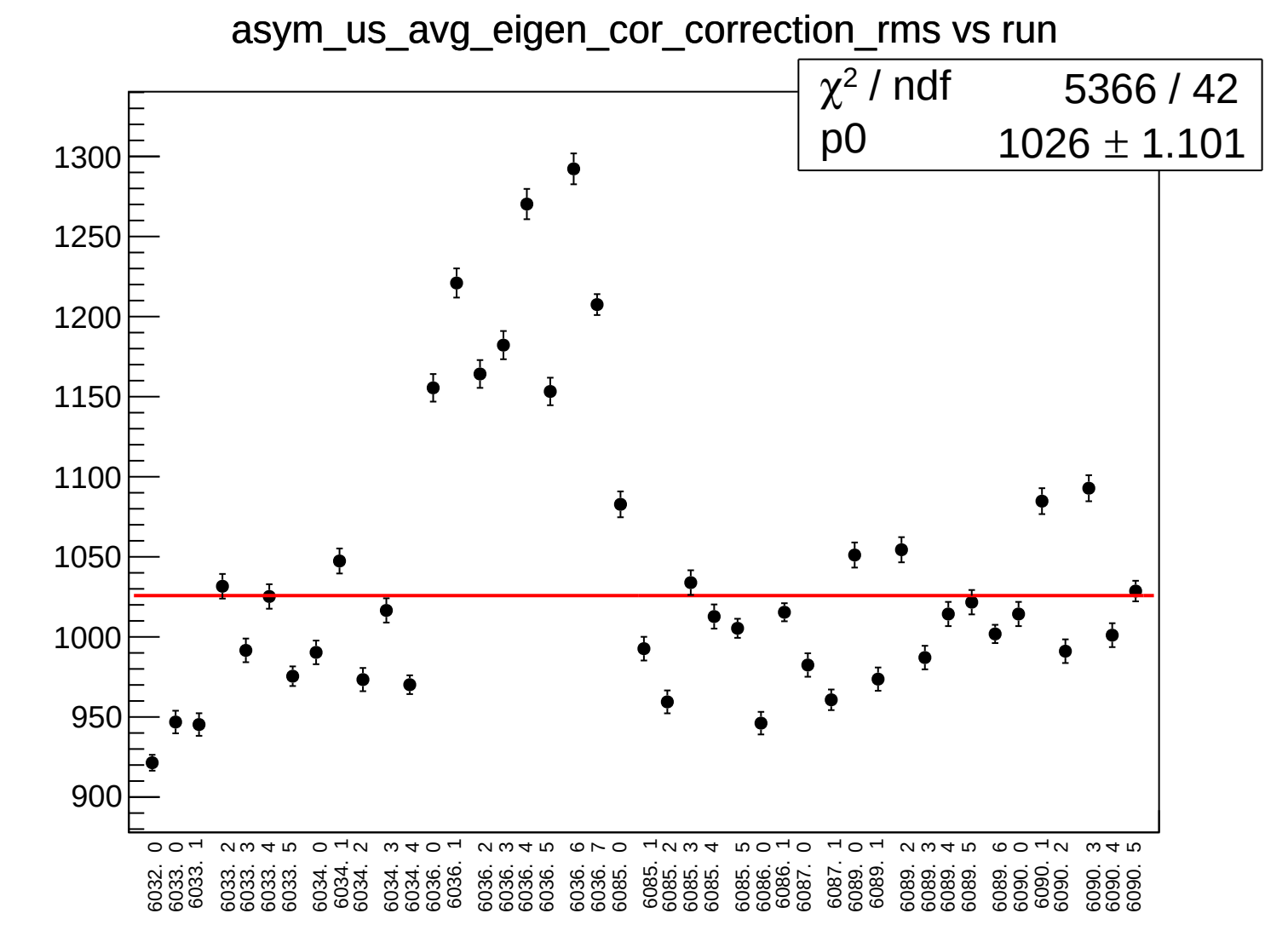

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 43.5 / 42
p0 −1310 ± 1195
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

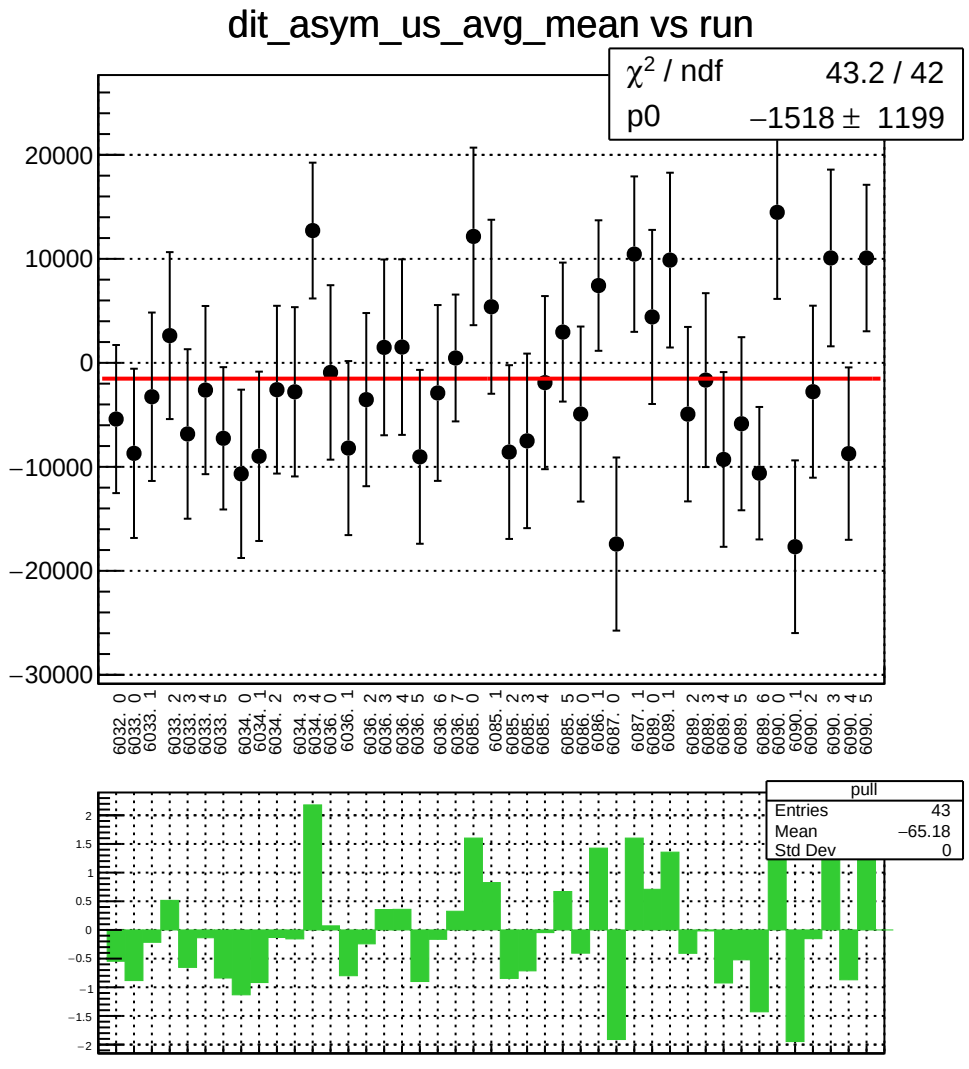

pull1D
Entries 43
Mean −0.02414
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

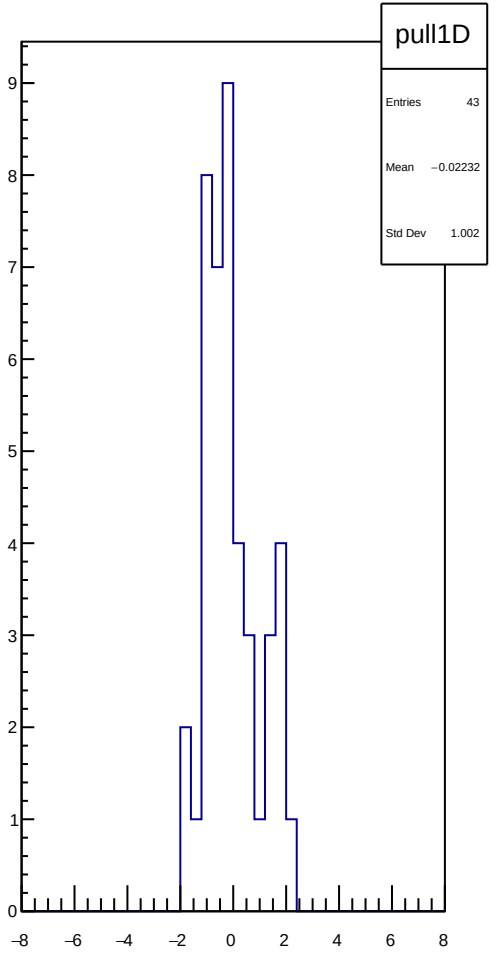

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 1065 / 42
p0 789.4 ± 0.8453
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

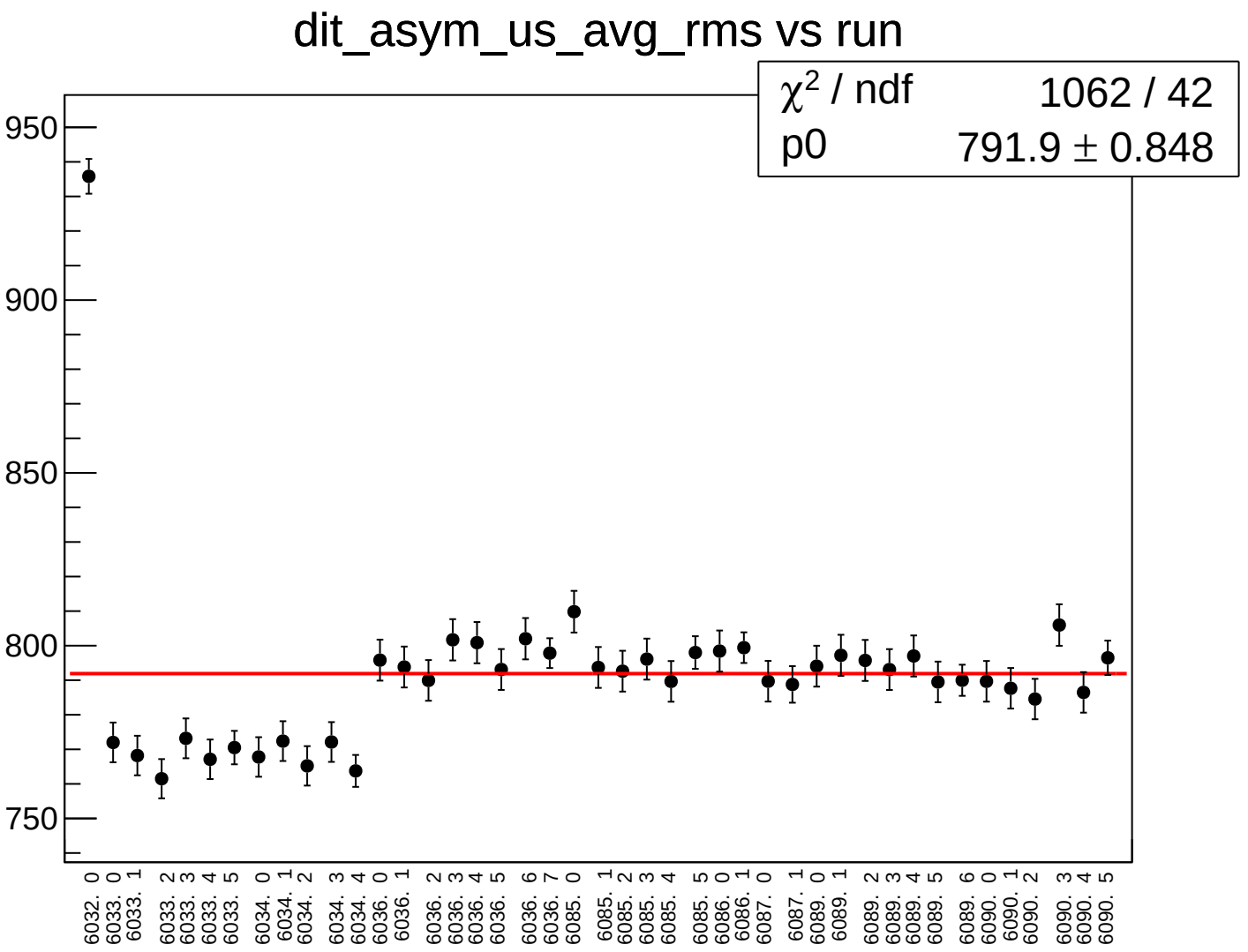

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.63 / 42
p0 28.8 ± 1557
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −52.8
Std Dev 0
2
1
0
−1
−2

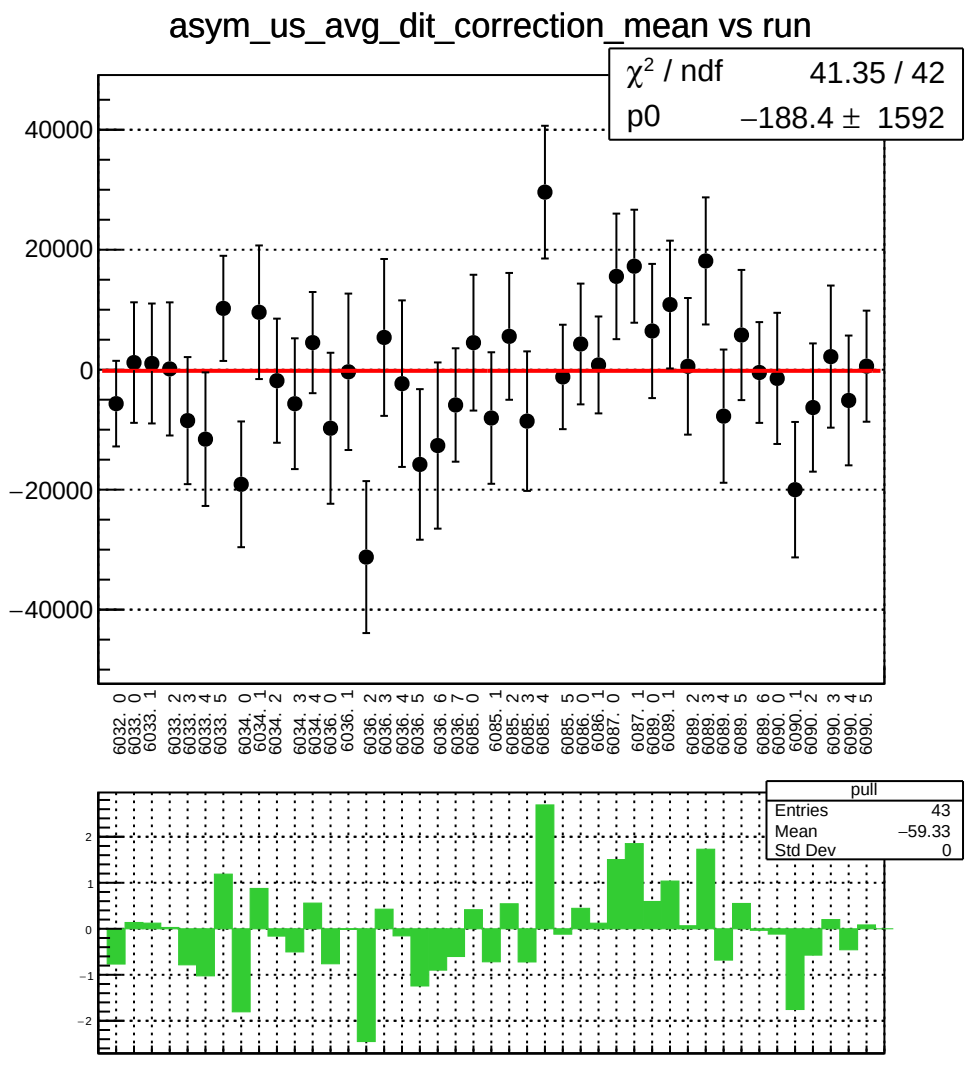

pull1D
Entries 43
Mean −0.02965
Std Dev 0.9835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

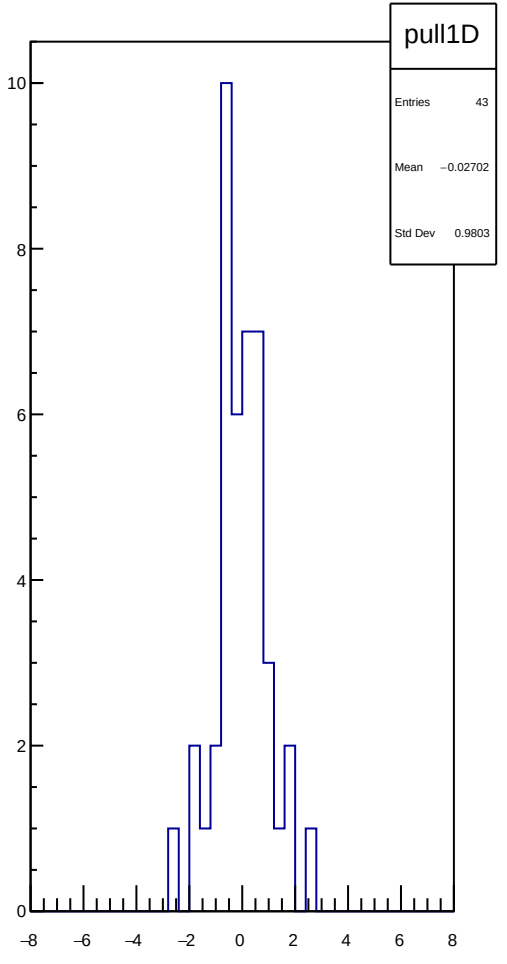

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5366 / 42
p0 1026 ± 1.101
1300
1250
1200
1150
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

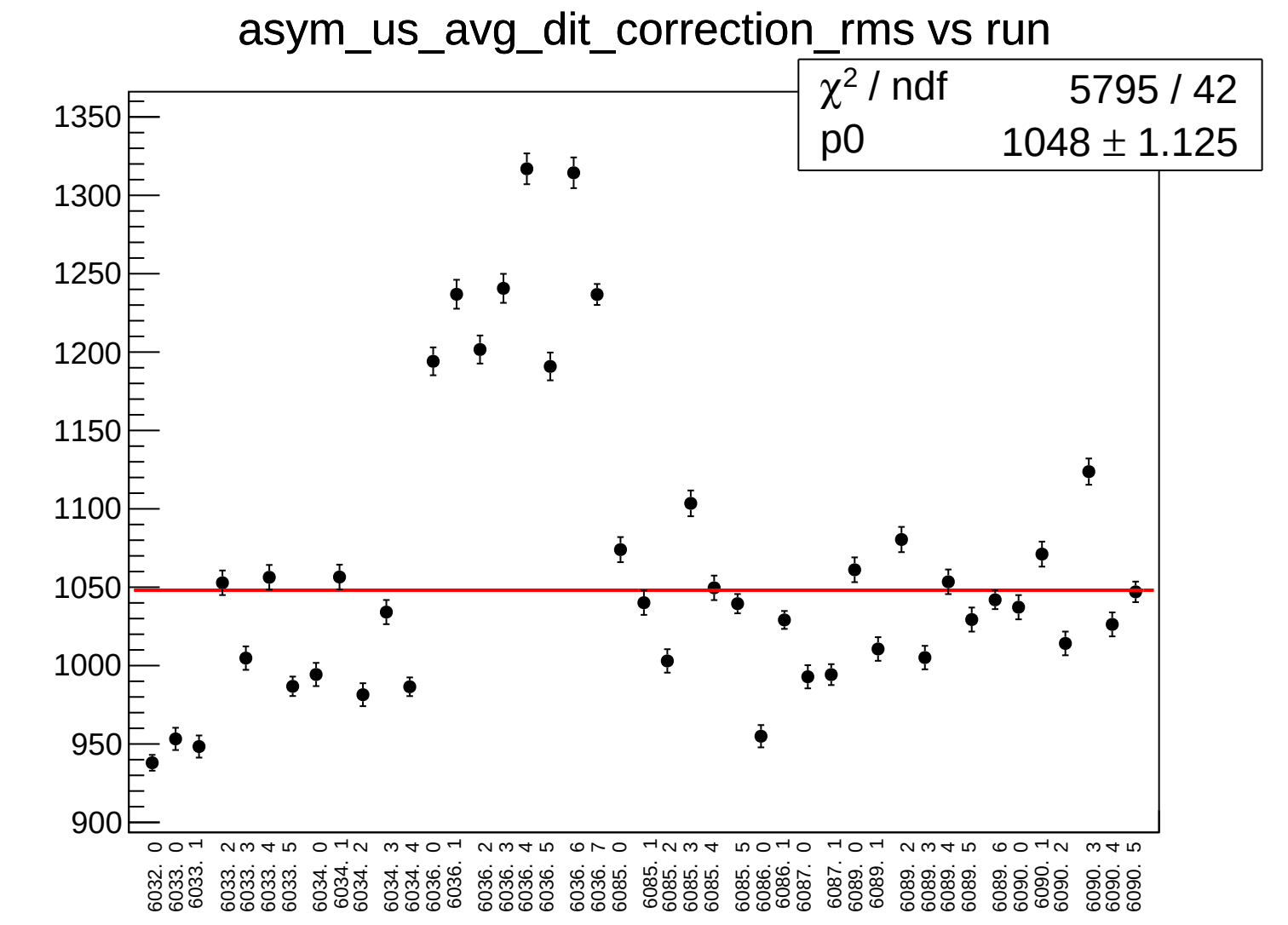

dit_asym_us_avg_mean vs run
χ² / ndf 43.2 / 42
p0 −1518 ± 1199
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −65.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

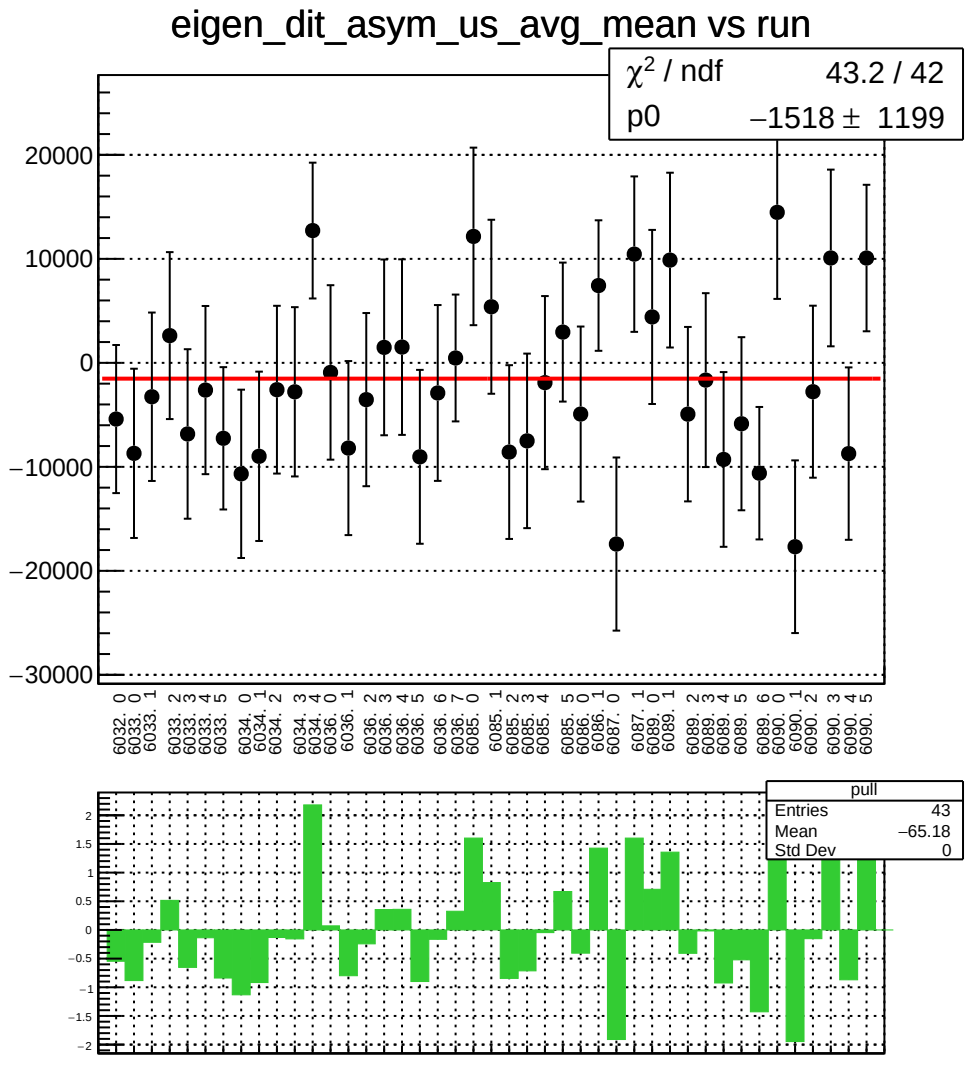

pull1D
Entries 43
Mean −0.02232
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

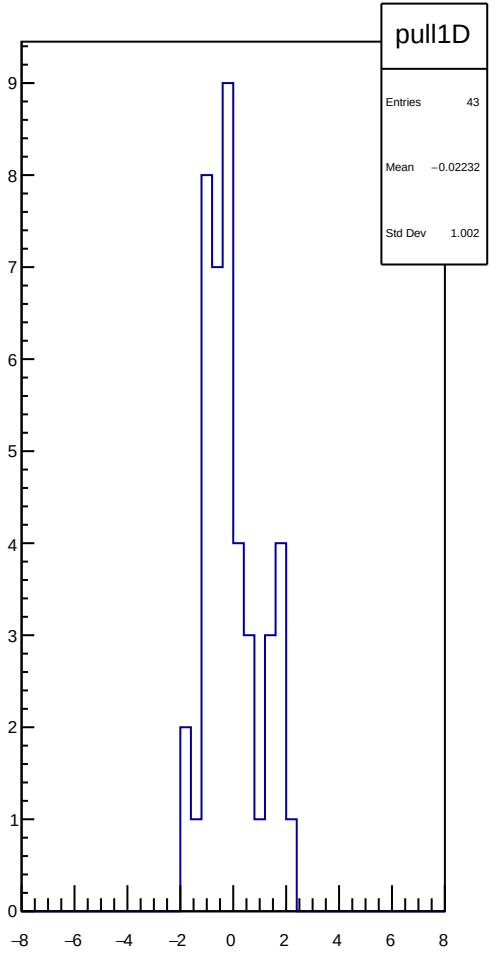

dit_asym_us_avg_rms vs run
χ² / ndf 1062 / 42
p0 791.9 ± 0.848
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

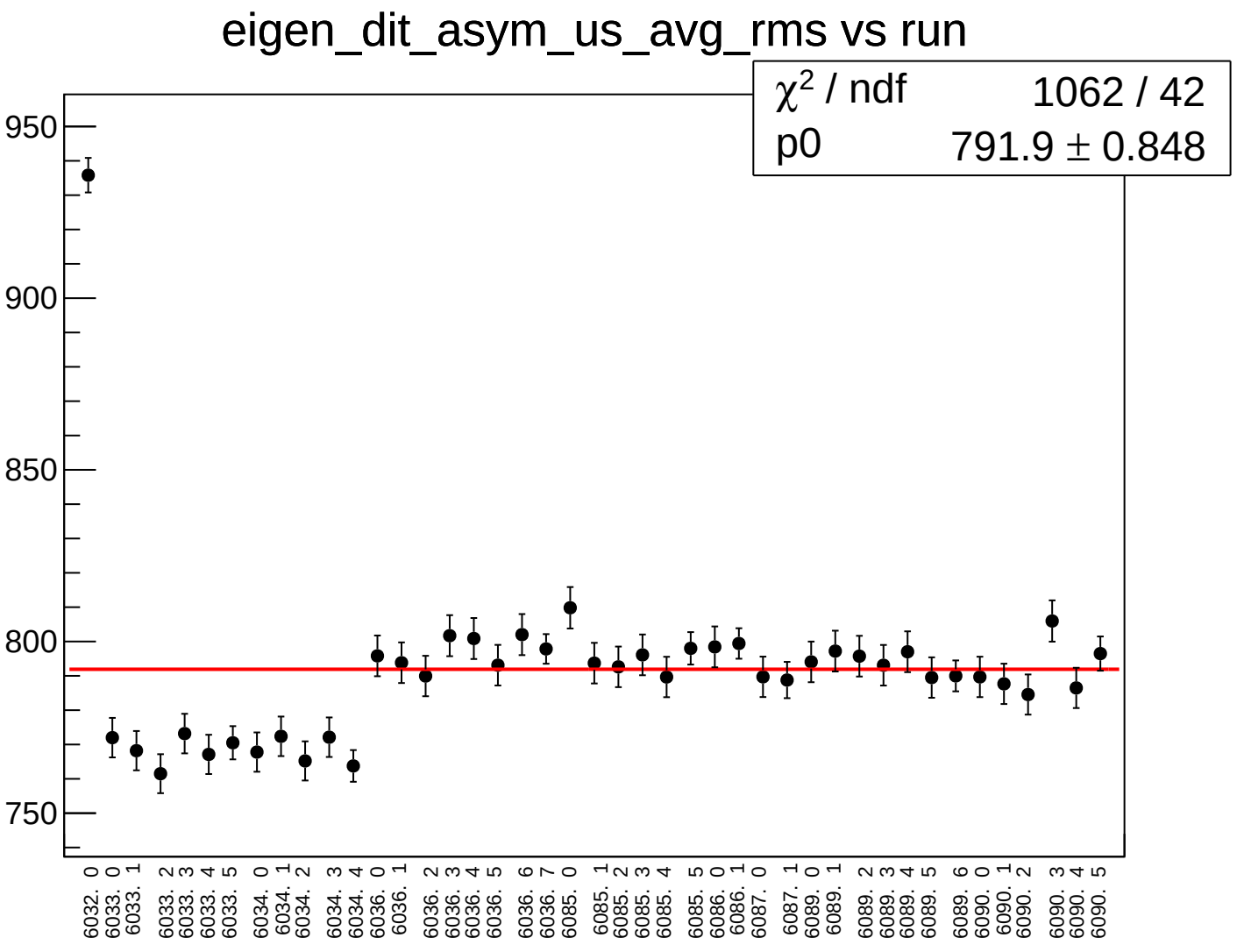

asym_us_avg_dit_correction_mean vs run
χ² / ndf 41.35 / 42
p0 −188.4 ± 1592
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −59.33
Std Dev 0
2
1
0
−1
−2

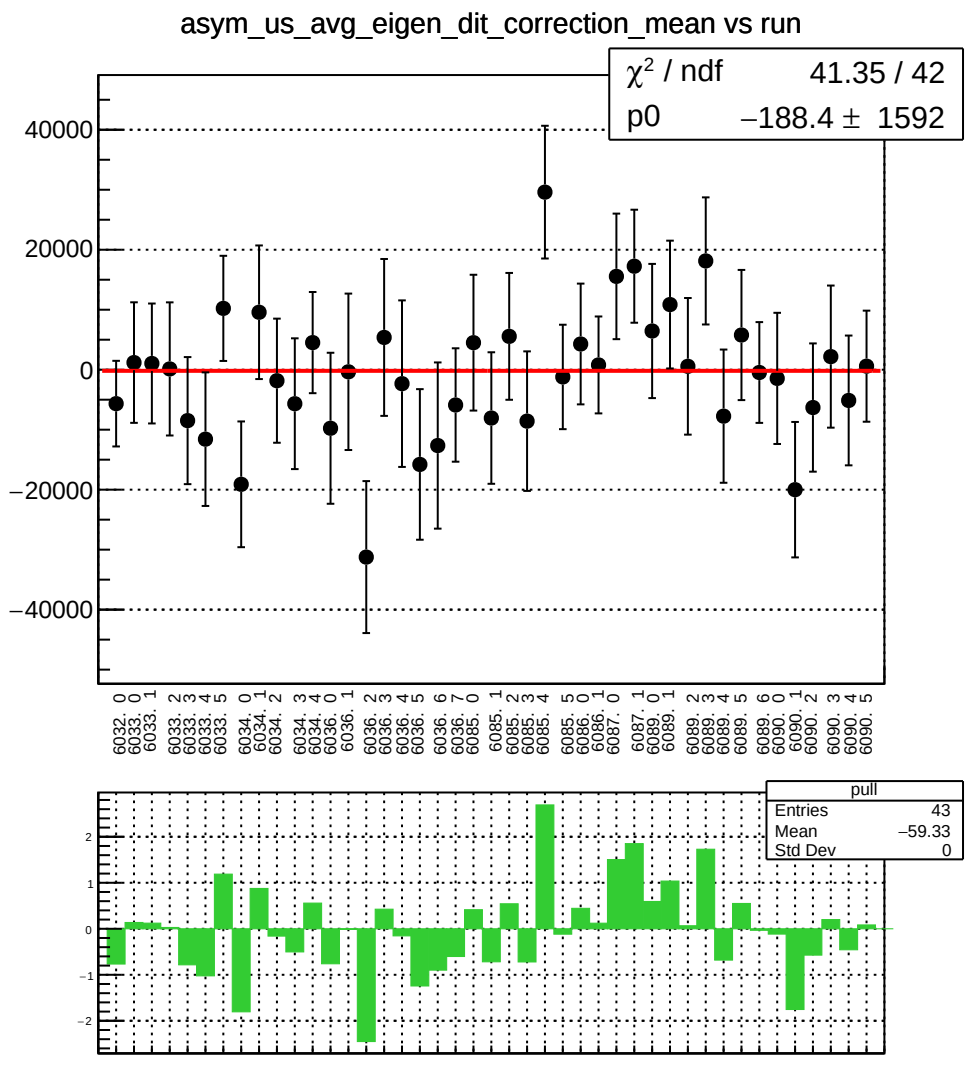

pull1D
Entries 43
Mean −0.02702
Std Dev 0.9803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

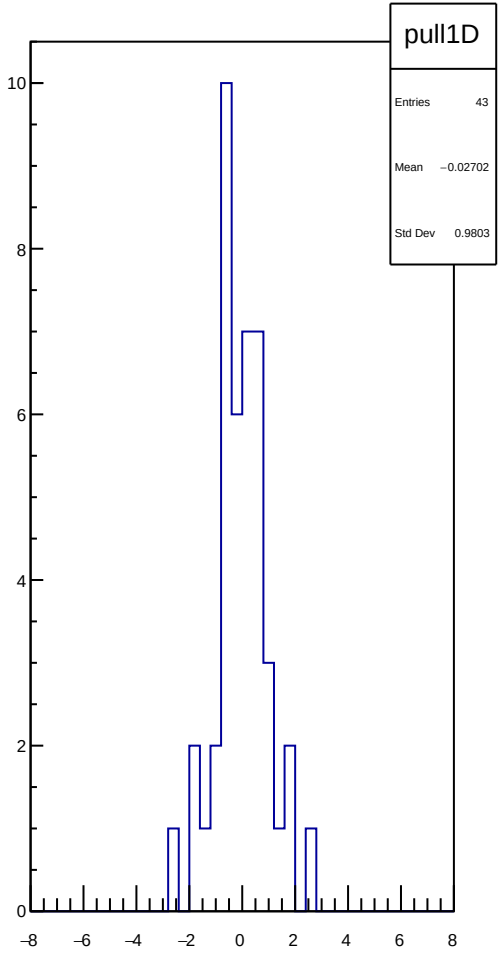

asym_us_avg_dit_correction_rms vs run
χ² / ndf 5795 / 42
p0 1048 ± 1.125
1350
1300
1250
1200
1150
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

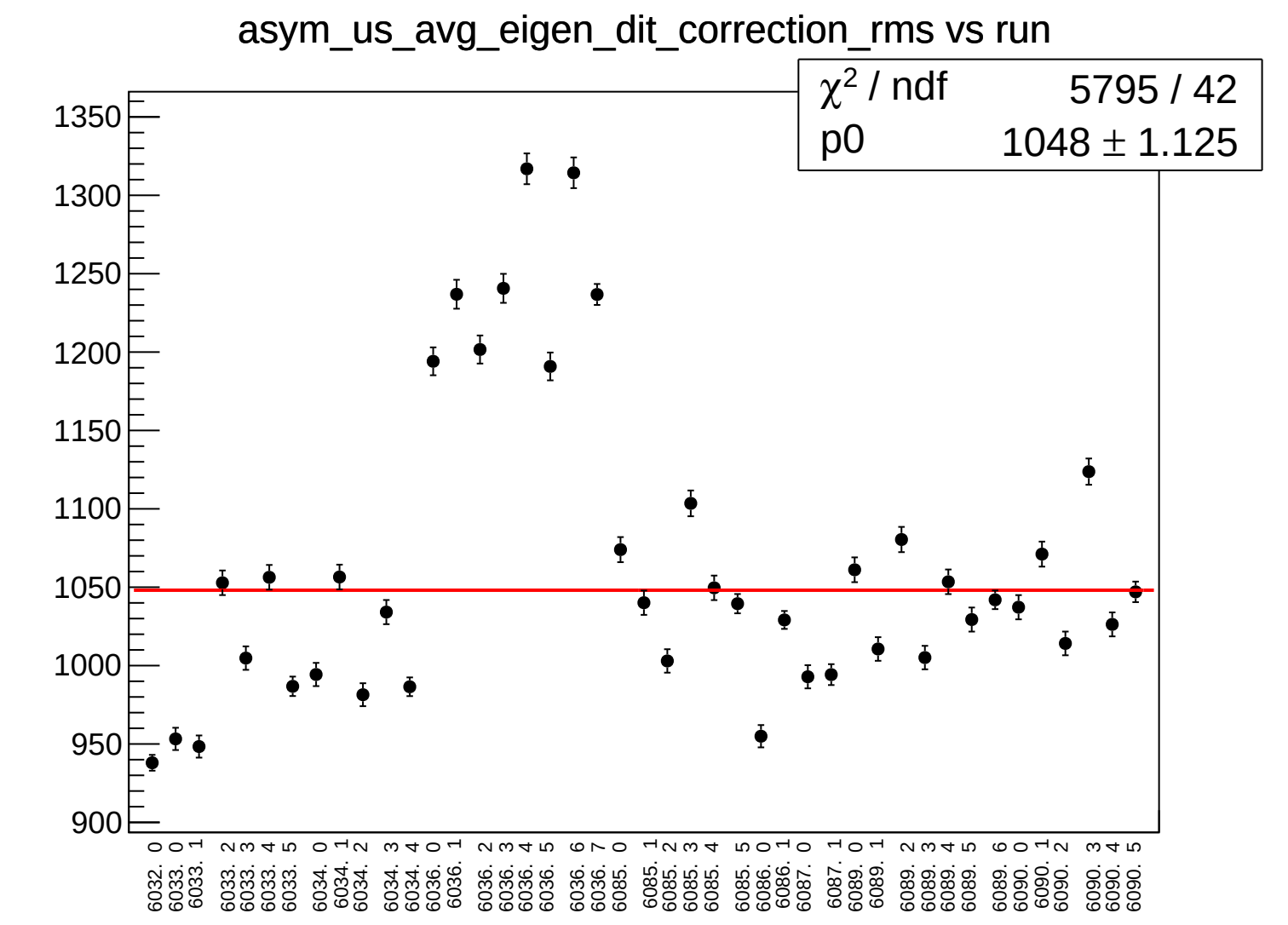

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 43.2 / 42
p0 −1518 ± 1199
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −65.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

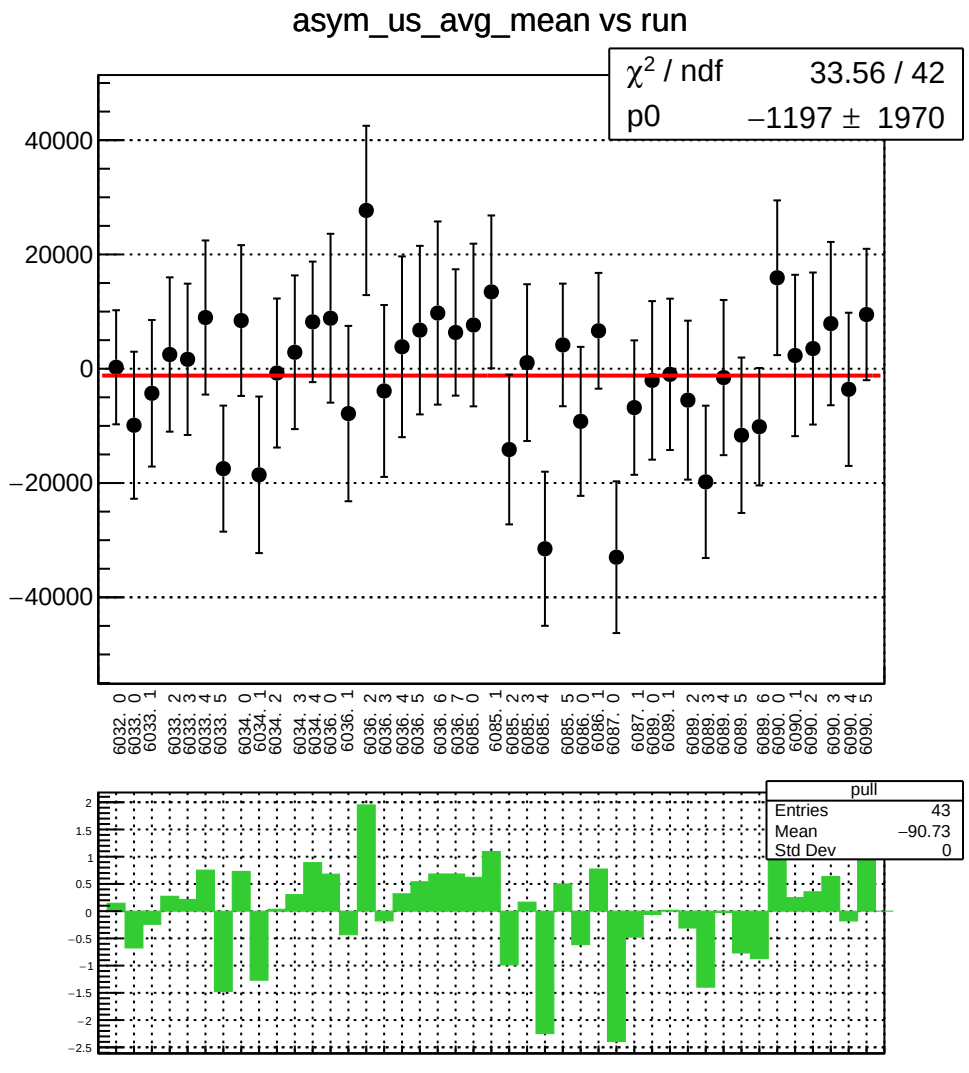

pull1D
Entries 43
Mean −0.02232
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

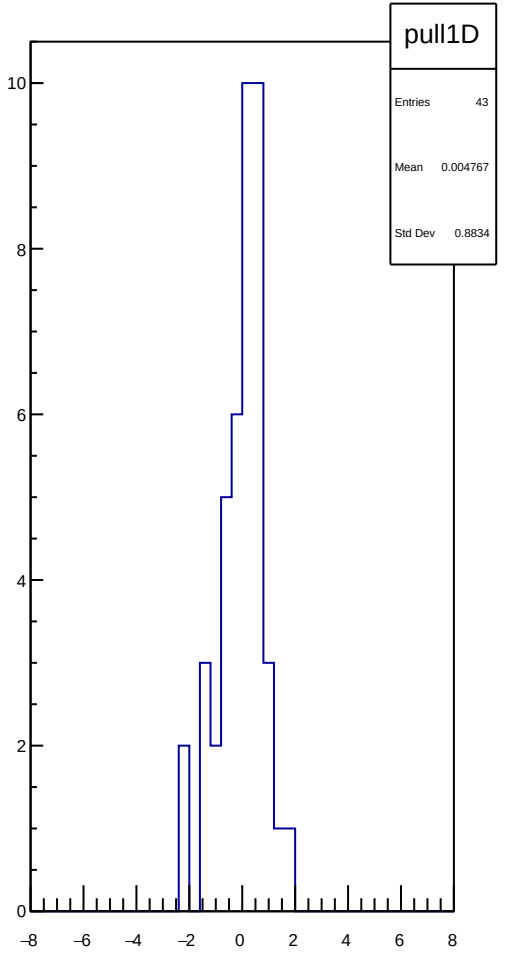

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 1062 / 42
p0 791.9 ± 0.848
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

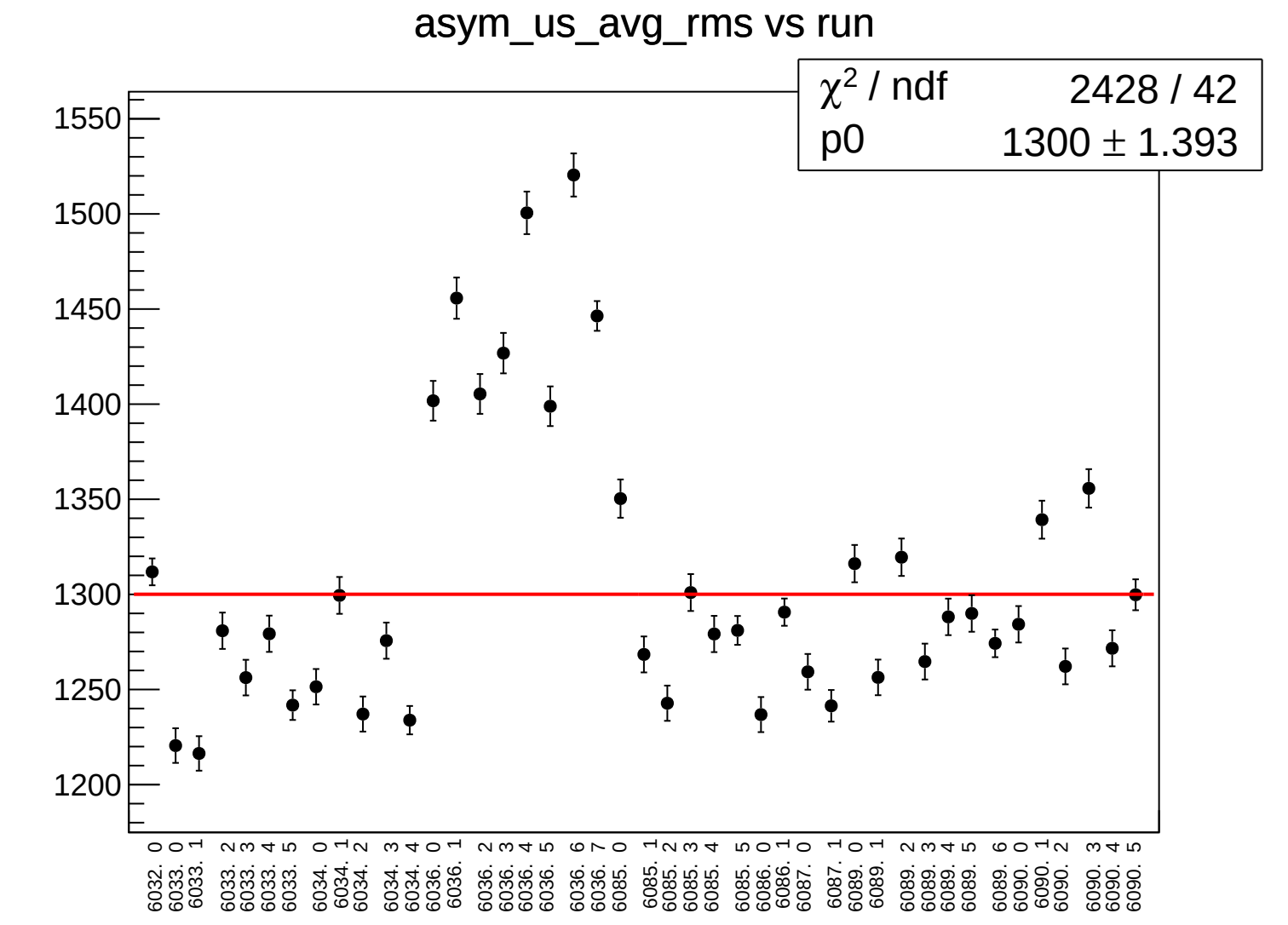

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.35 / 42
p0 −188.4 ± 1592
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −59.33
Std Dev 0
2
1
0
−1
−2

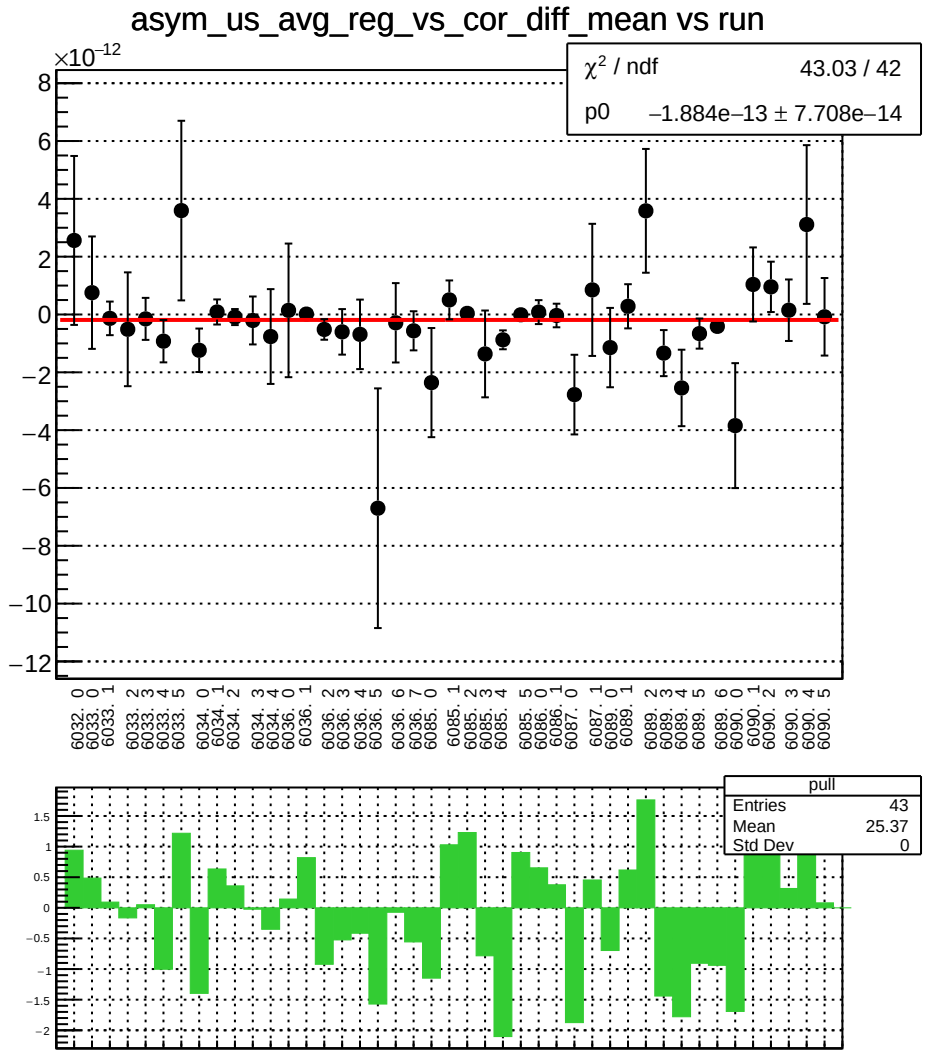

pull1D
Entries 43
Mean −0.02702
Std Dev 0.9803
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

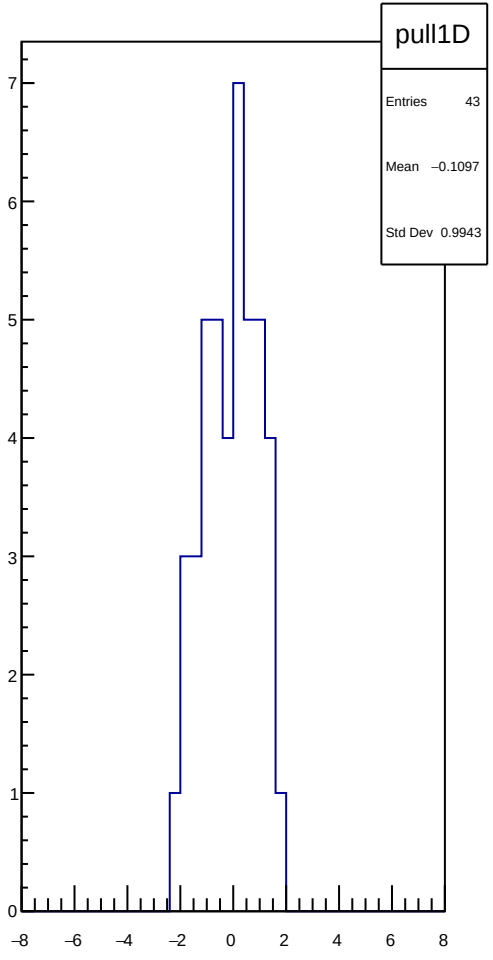

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 5795 / 42
p0 1048 ± 1.125
1350
1300
1250
1200
1150
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

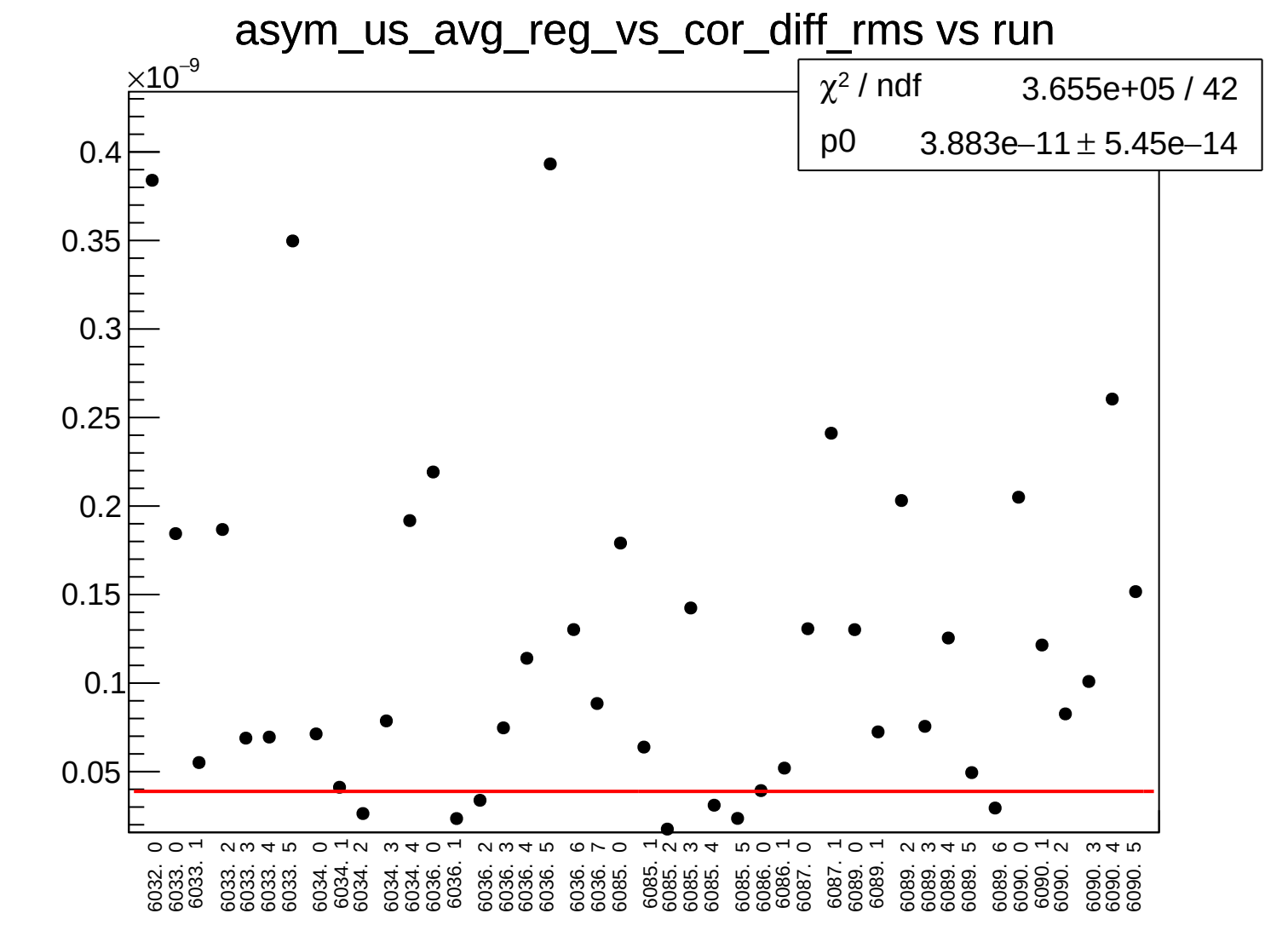

asym_us_avg_mean vs run
χ² / ndf 33.56 / 42
p0 −1197 ± 1970
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −90.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.004767
Std Dev 0.8834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_rms vs run
χ² / ndf 2428 / 42
p0 1300 ± 1.393
1550
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 43.03 / 42
p0 −1.884e−13 ± 7.708e−14
pull
Entries 43
Mean 25.37
Std Dev 0


pull1D
Entries 43
Mean −0.1097
Std Dev 0.9943


asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.655e+05 / 42
p0 3.883e−11 ± 5.45e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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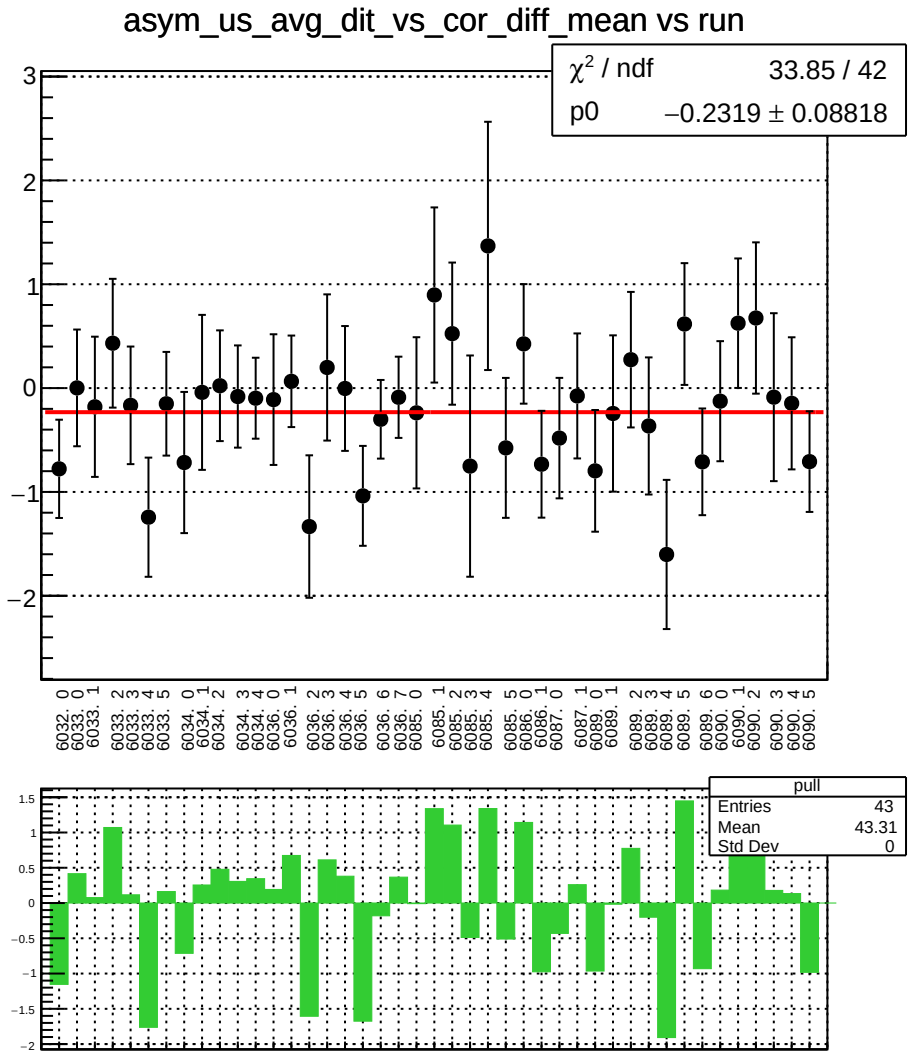
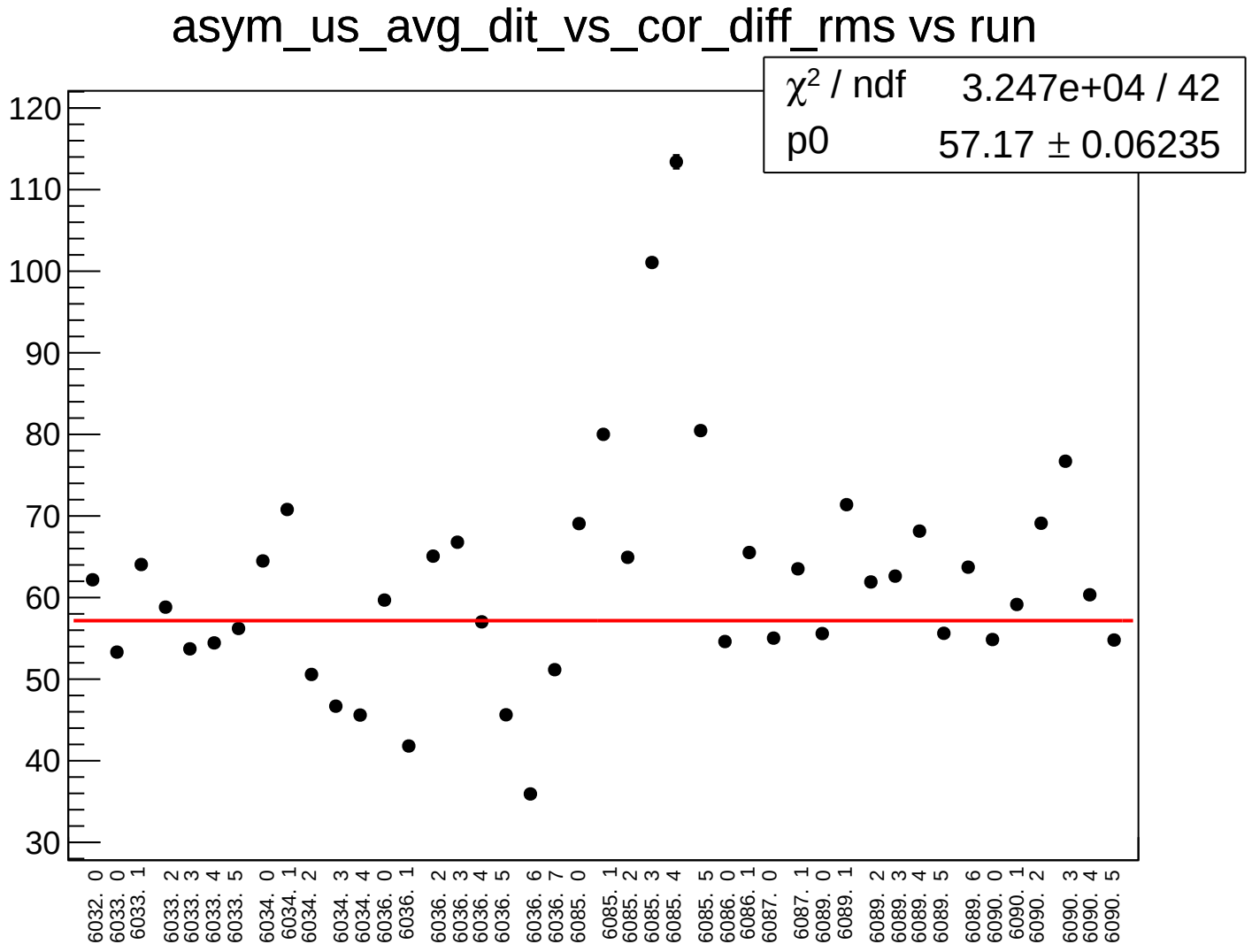
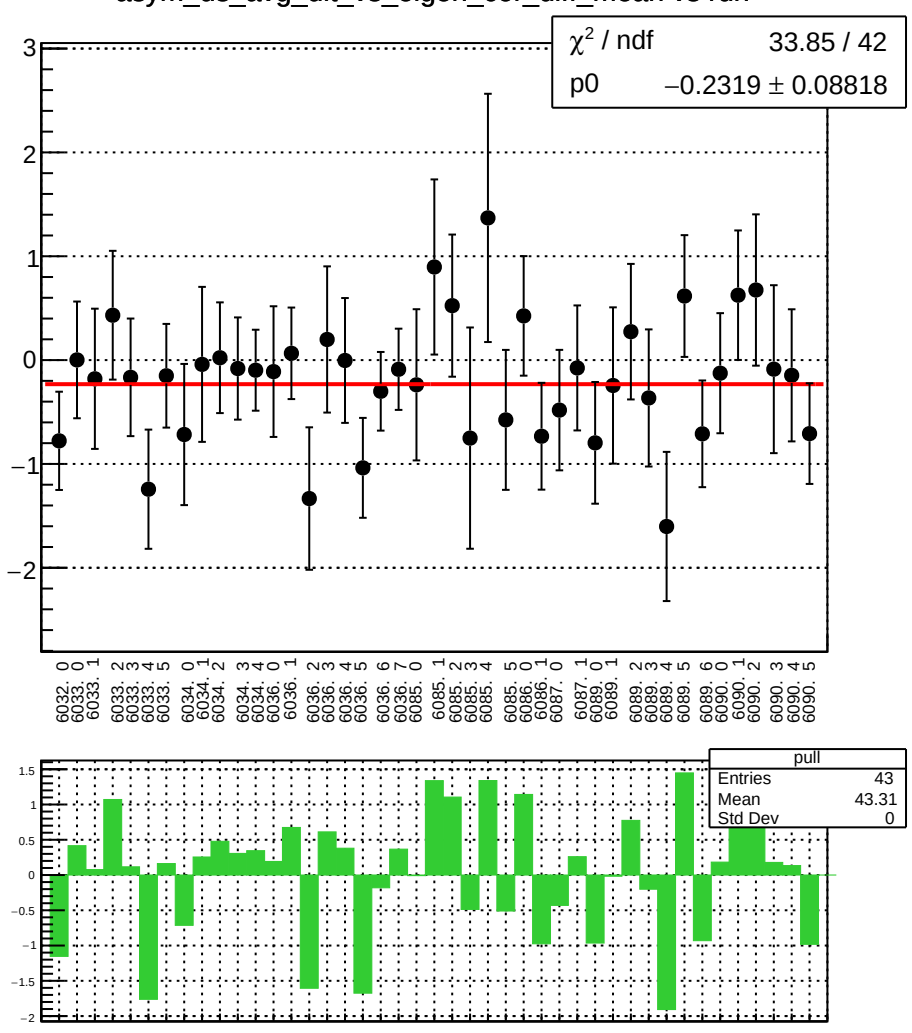
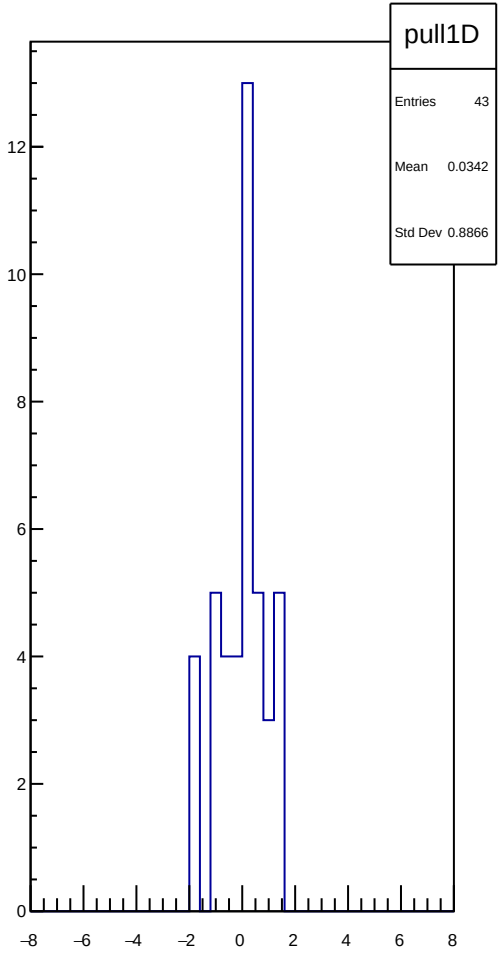
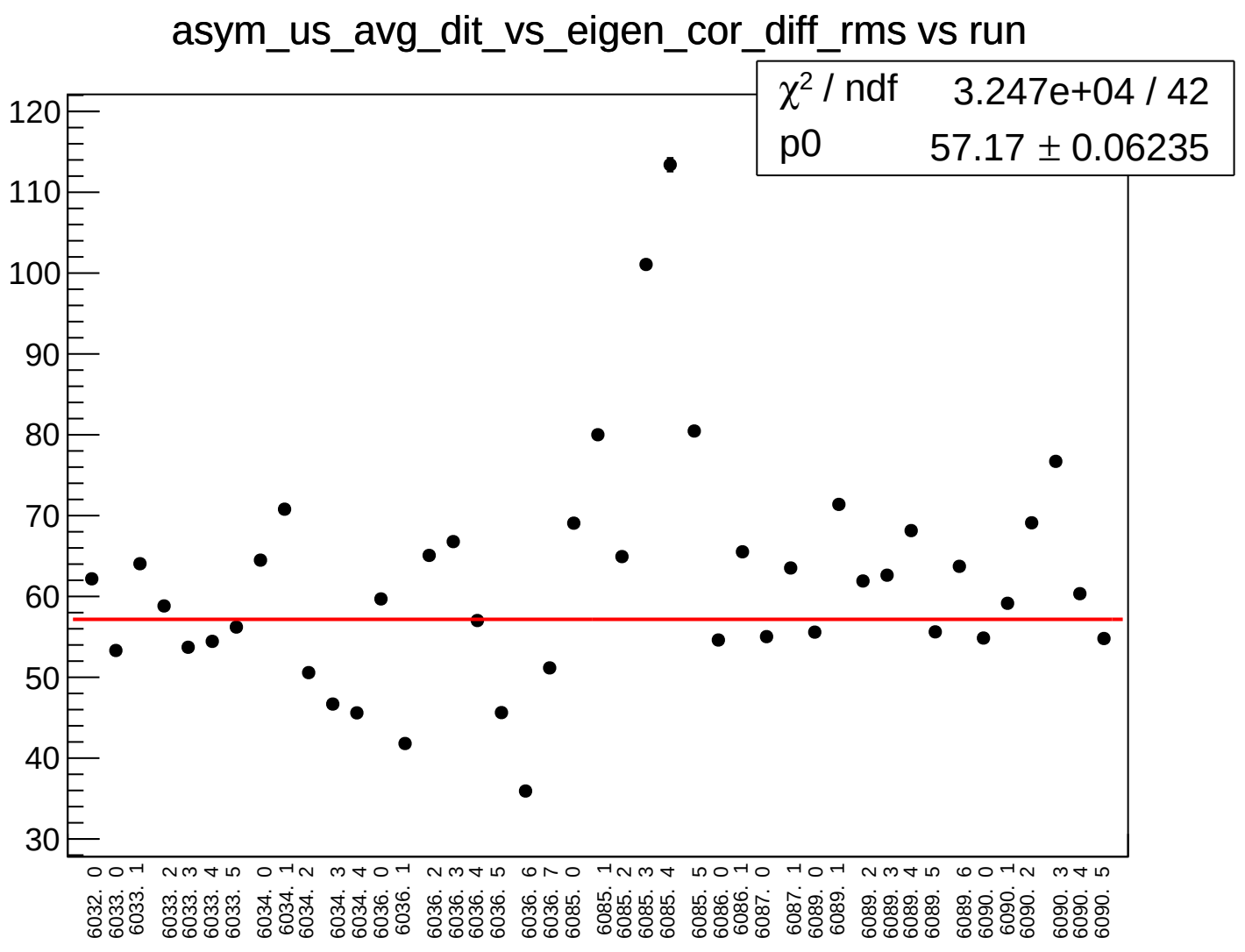
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

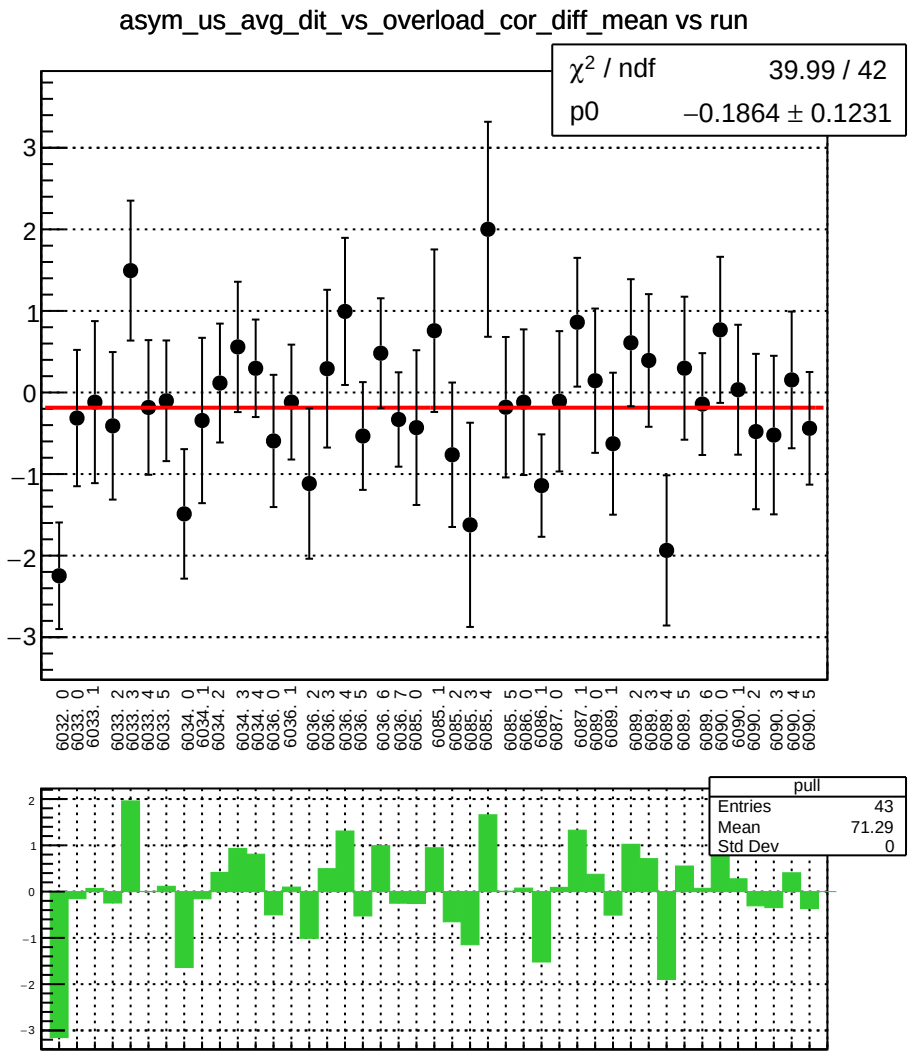

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.85 / 42
p0 −0.2319 ± 0.08818
pull
Entries 43
Mean 43.31
Std Dev 0
pull1D
Entries 43
Mean 0.0342
Std Dev 0.8866

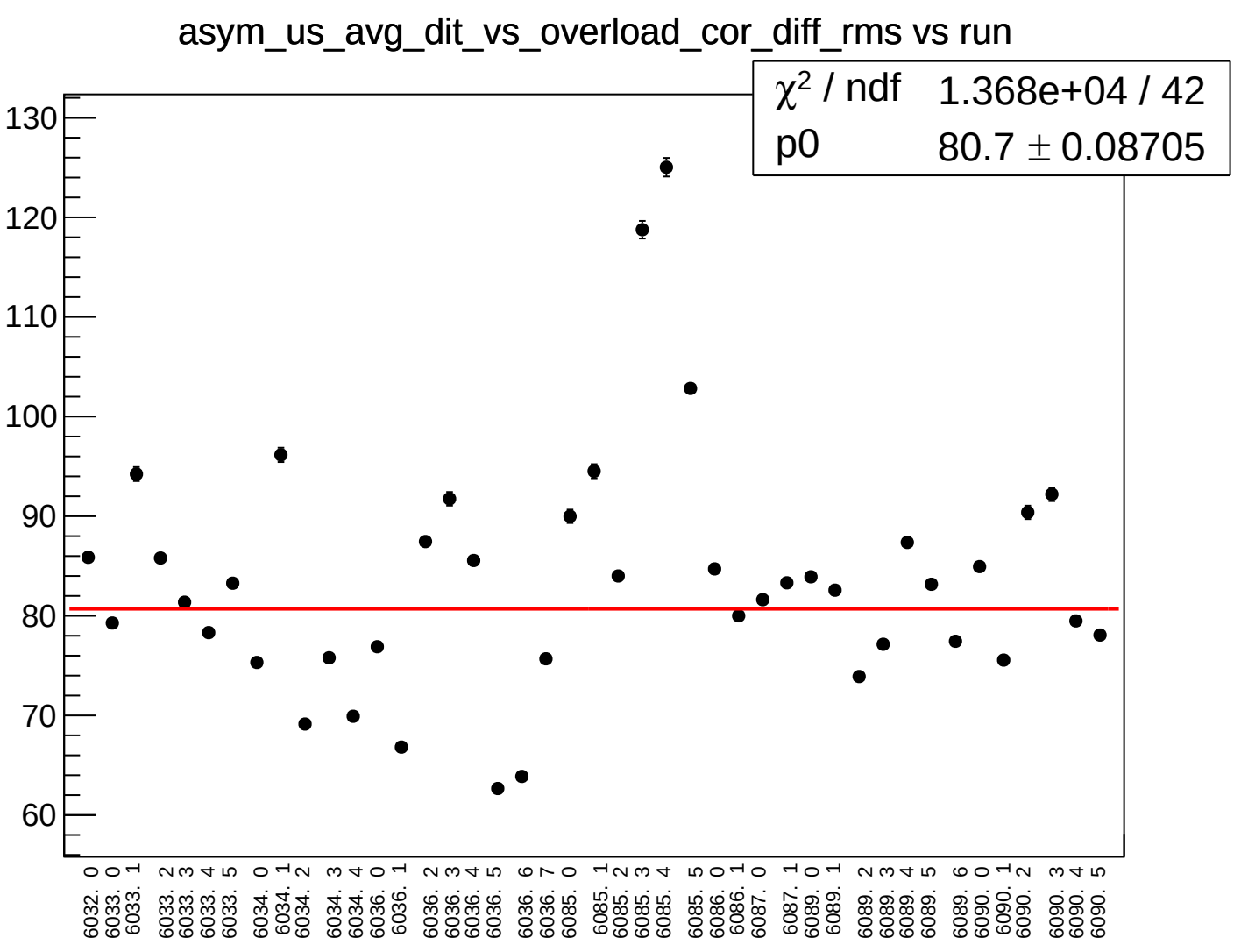

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.247e+04 / 42
p0 57.17 ± 0.06235
120
110
100
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

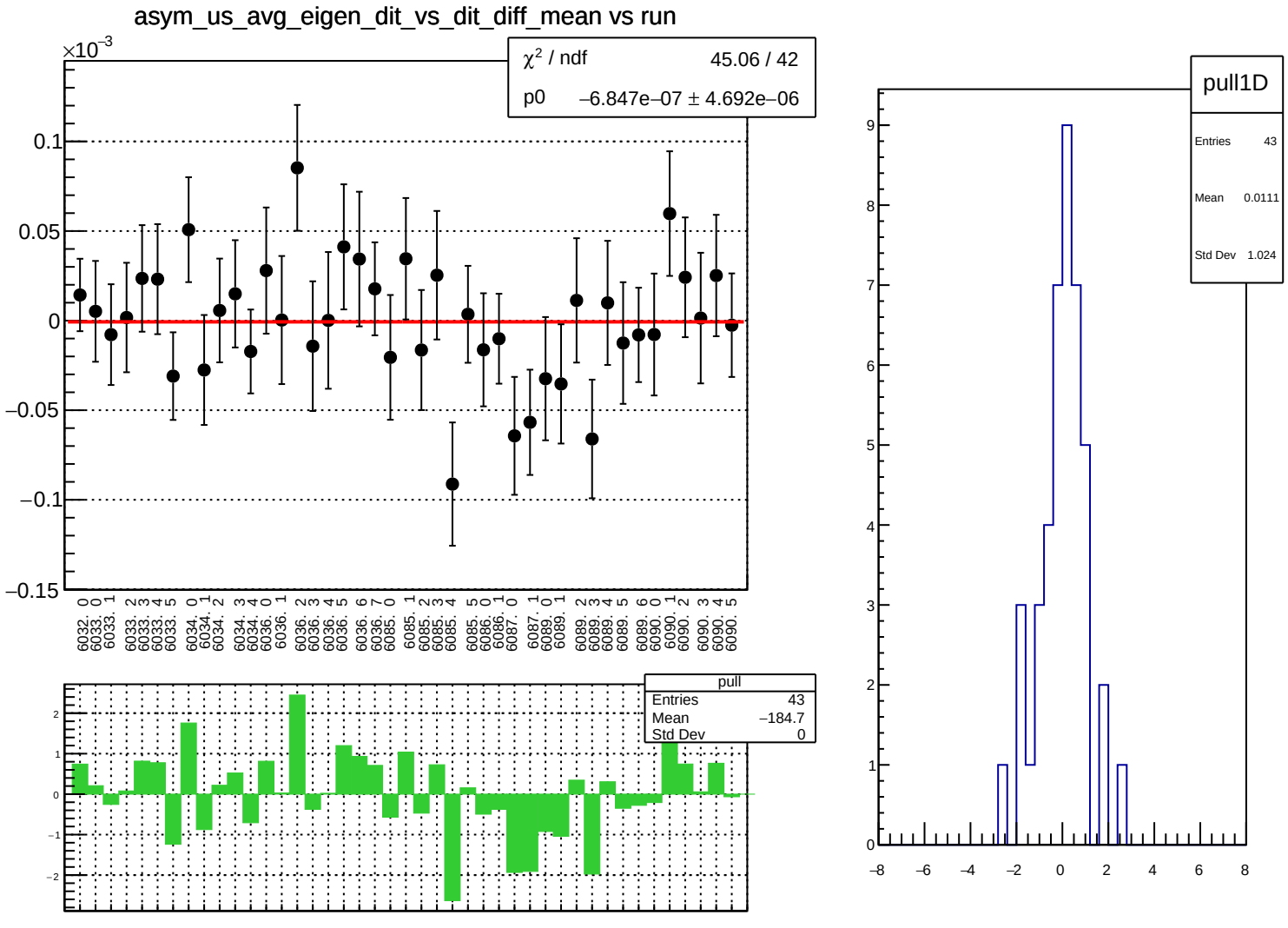

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.85 / 42
p0 −0.2319 ± 0.08818
pull
Entries 43
Mean 43.31
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

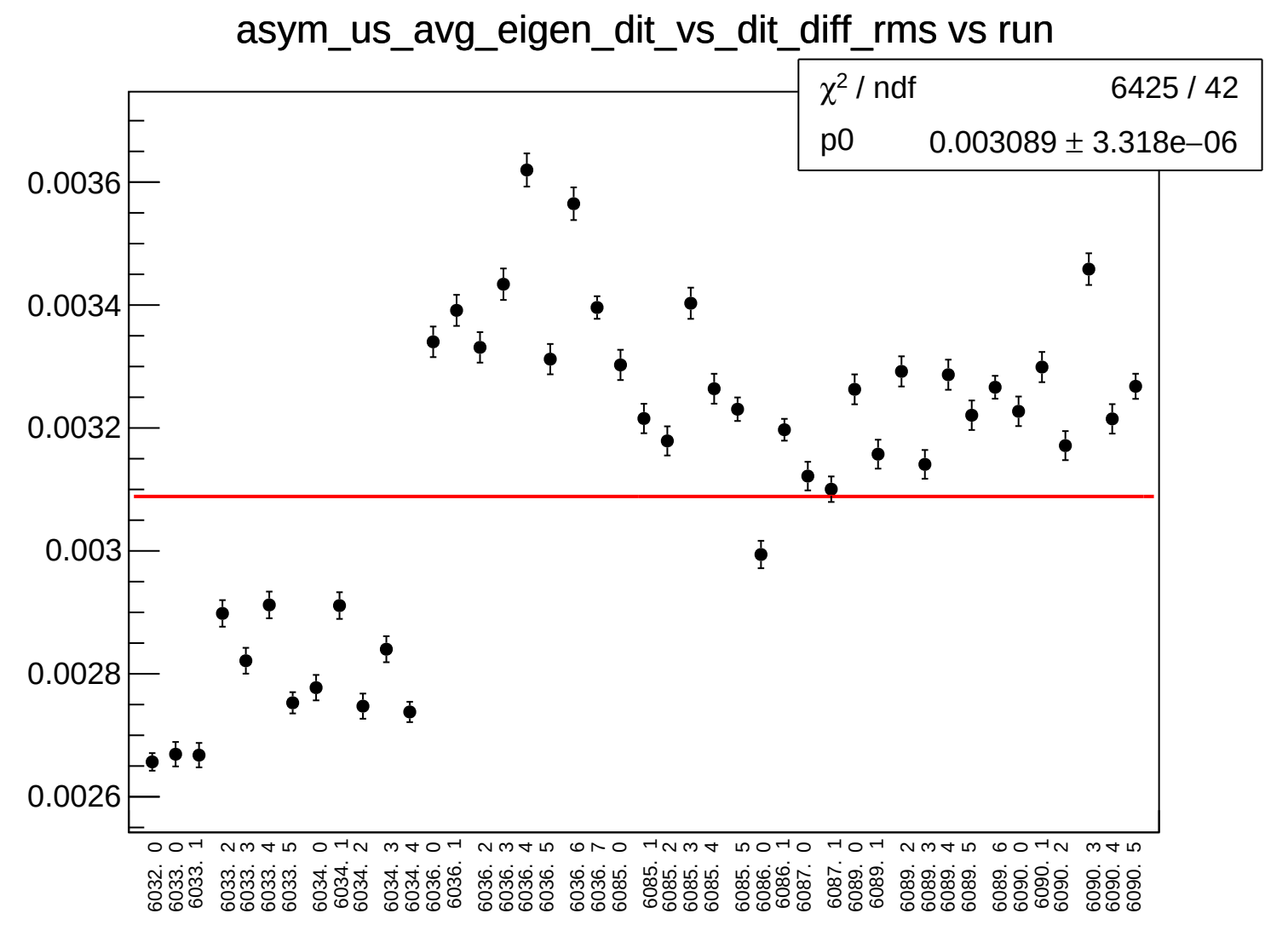

pull1D
Entries 43
Mean 0.0342
Std Dev 0.8866

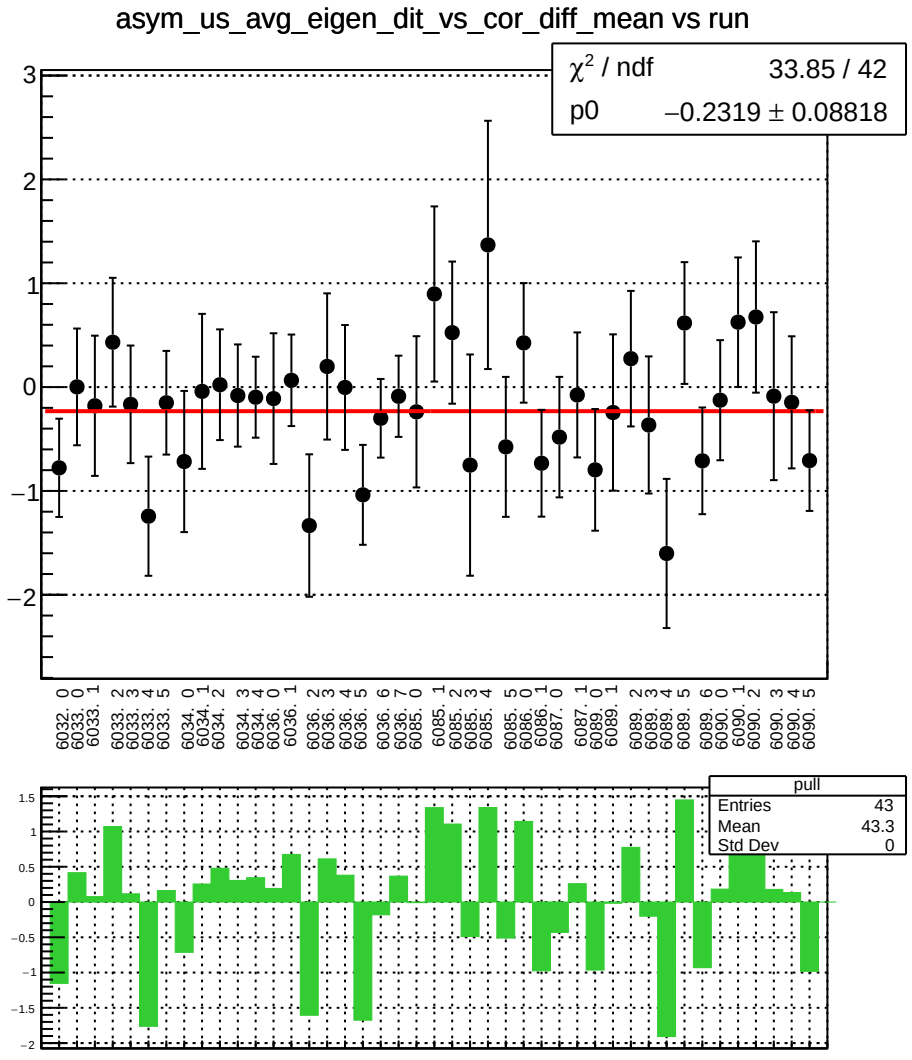

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.247e+04 / 42
p0 57.17 ± 0.06235
120
110
100
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

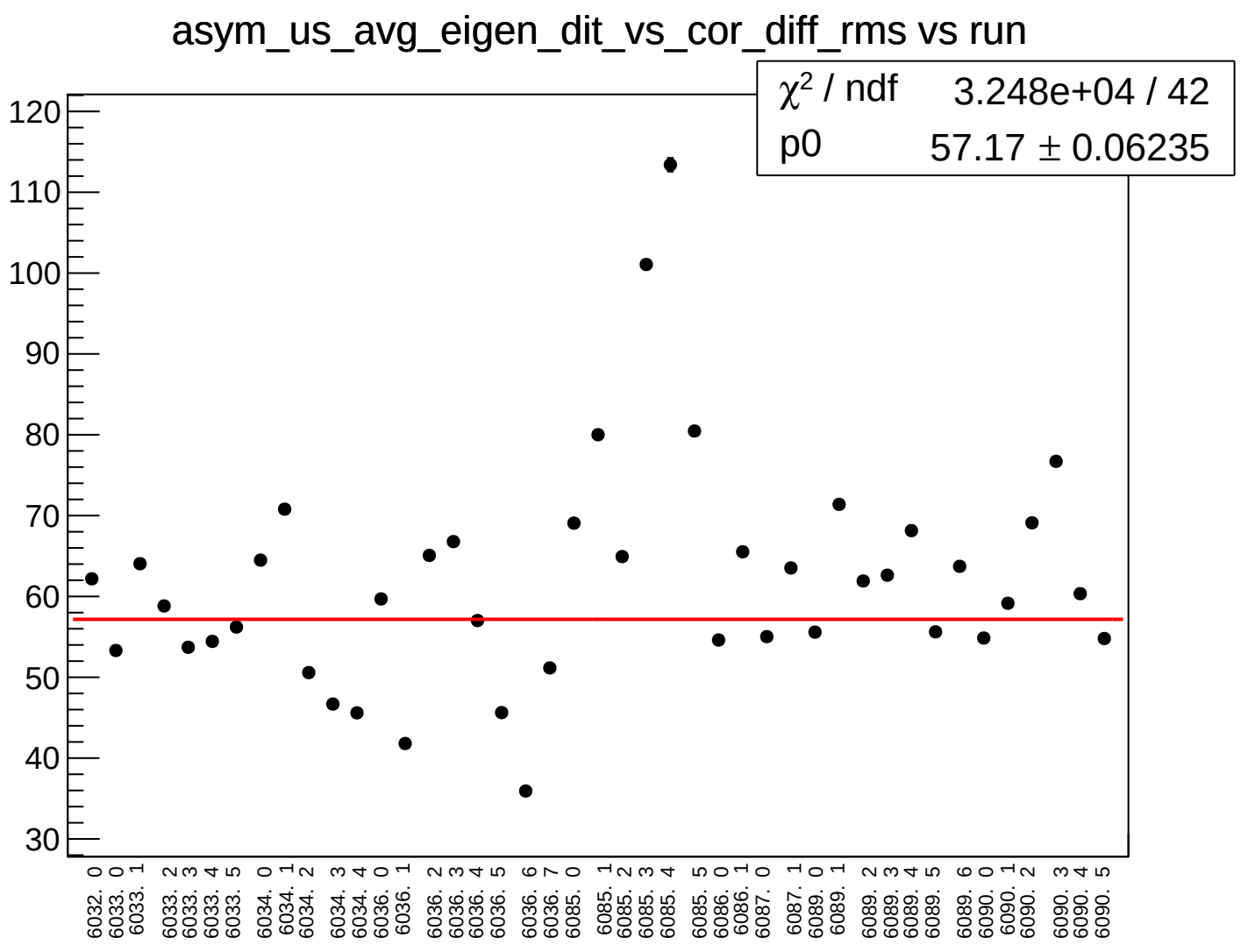

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 39.99 / 42
p0 −0.1864 ± 0.1231
pull
Entries 43
Mean 71.29
Std Dev 0
pull1D
Entries 43
Mean 0.02662
Std Dev 0.964

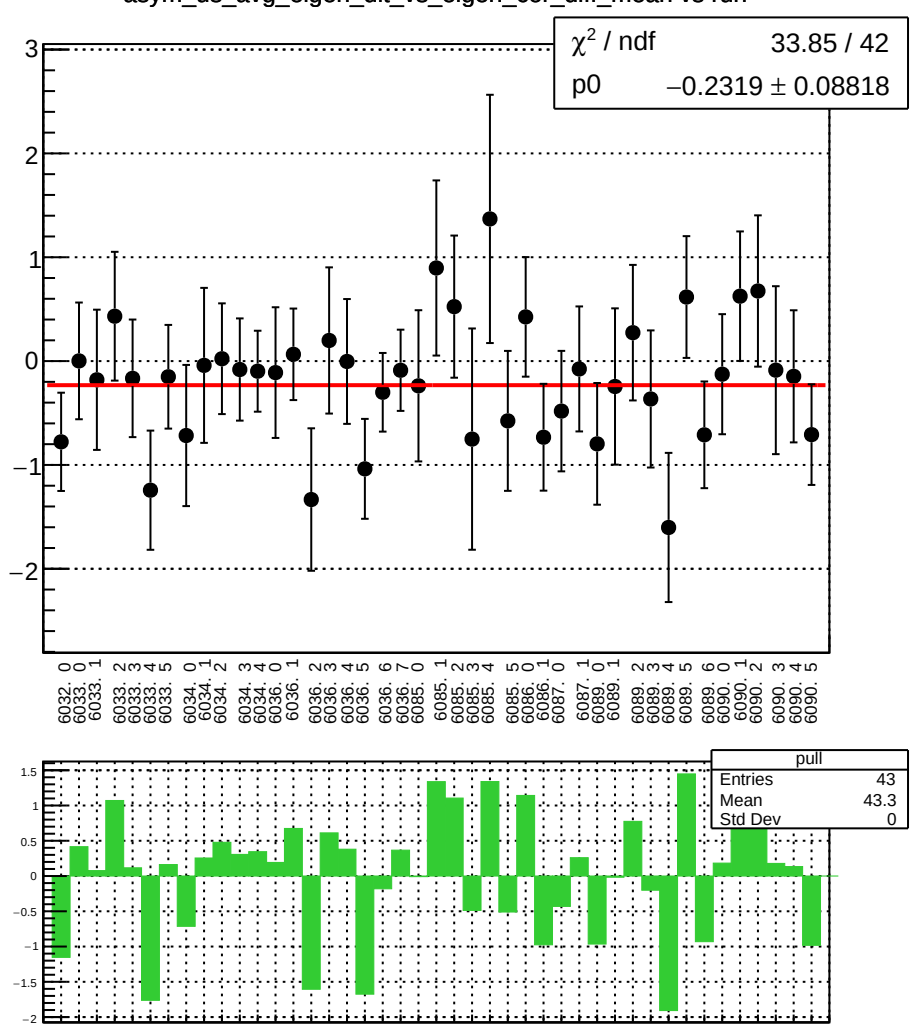

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.368e+04 / 42
p0 80.7 ± 0.08705
130
120
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

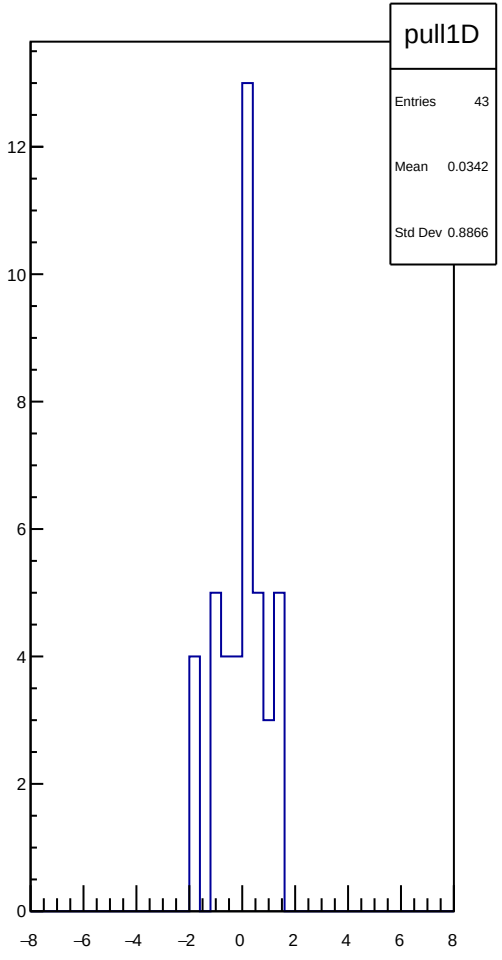

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 45.06 / 42
p0 −6.847e−07 ± 4.692e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −184.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0111
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

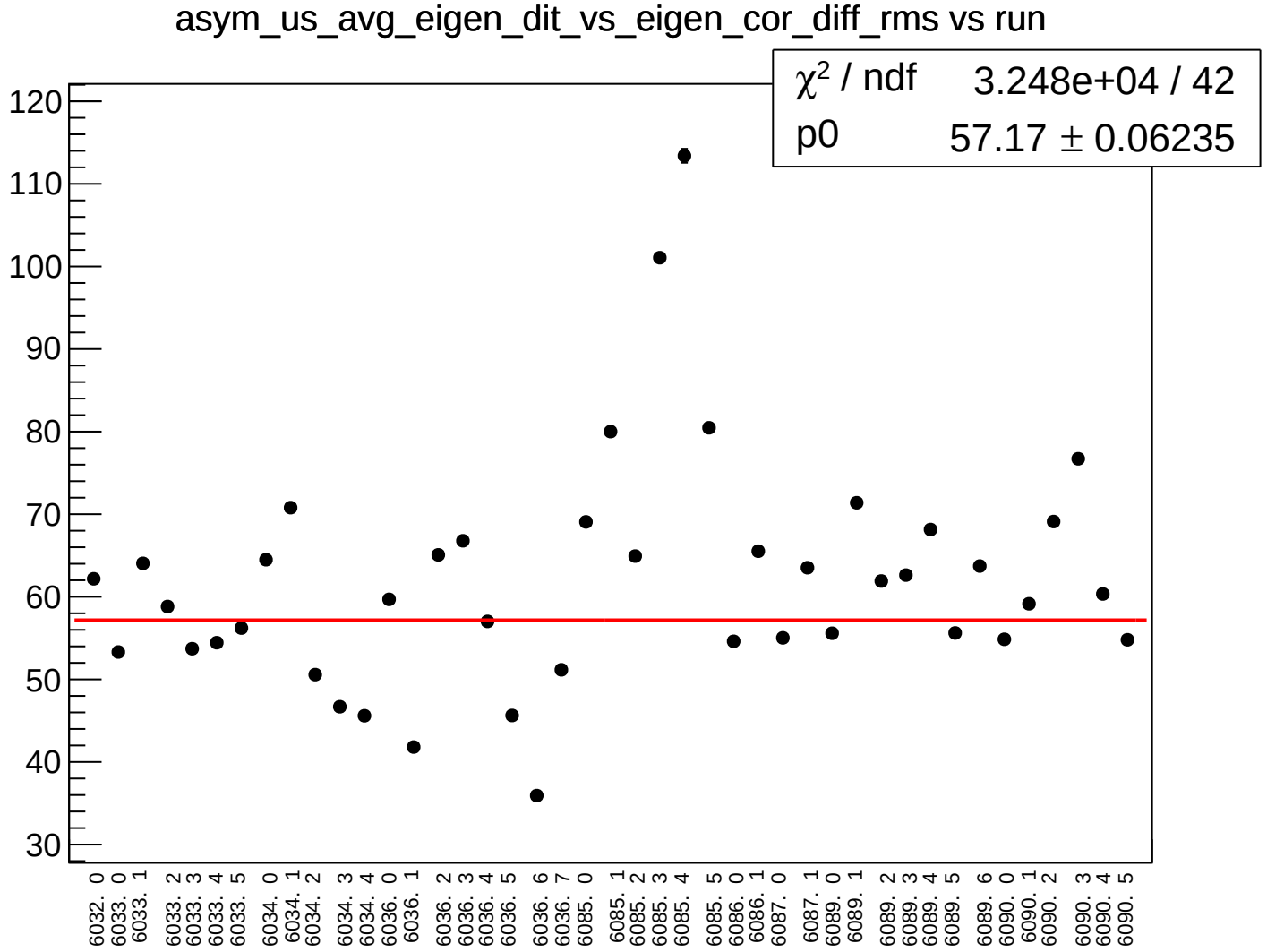

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6425 / 42
p0 0.003089 ± 3.318e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.85 / 42
p0 −0.2319 ± 0.08818
pull
Entries 43
Mean 43.3
Std Dev 0
pull1D
Entries 43
Mean 0.0342
Std Dev 0.8866


asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.248e+04 / 42
p0 57.17 ± 0.06235
120
110
100
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.85 / 42
p0 −0.2319 ± 0.08818
pull
Entries 43
Mean 43.3
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


pull1D
Entries 43
Mean 0.0342
Std Dev 0.8866


asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.248e+04 / 42
p0 57.17 ± 0.06235
120
110
100
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
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6034. 4
6036. 0
6036. 1
6036. 2
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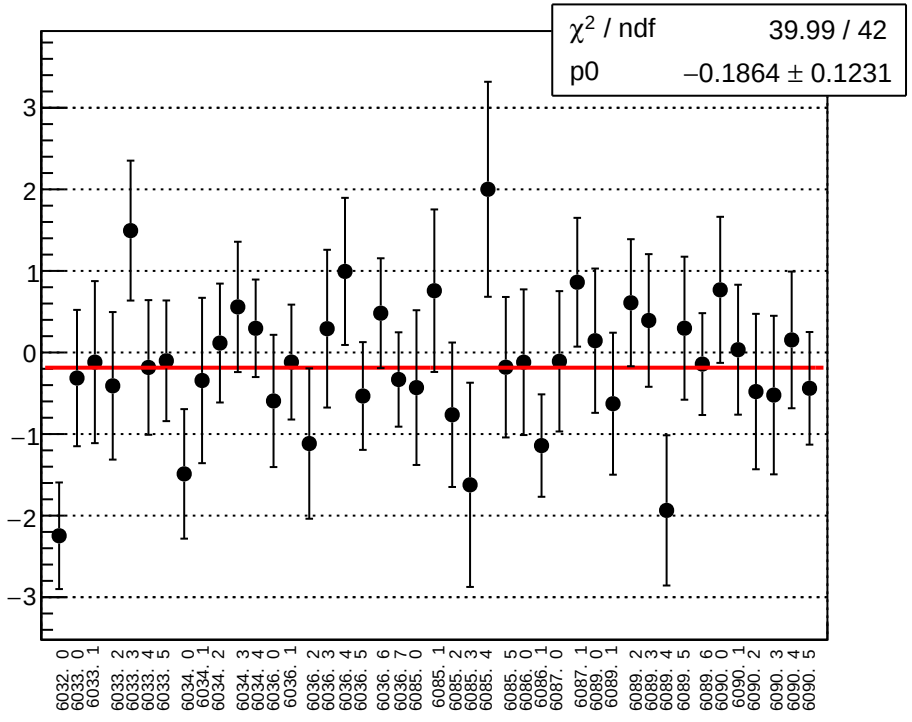
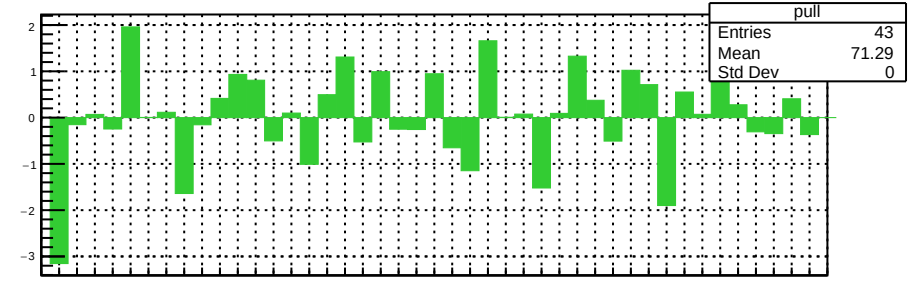
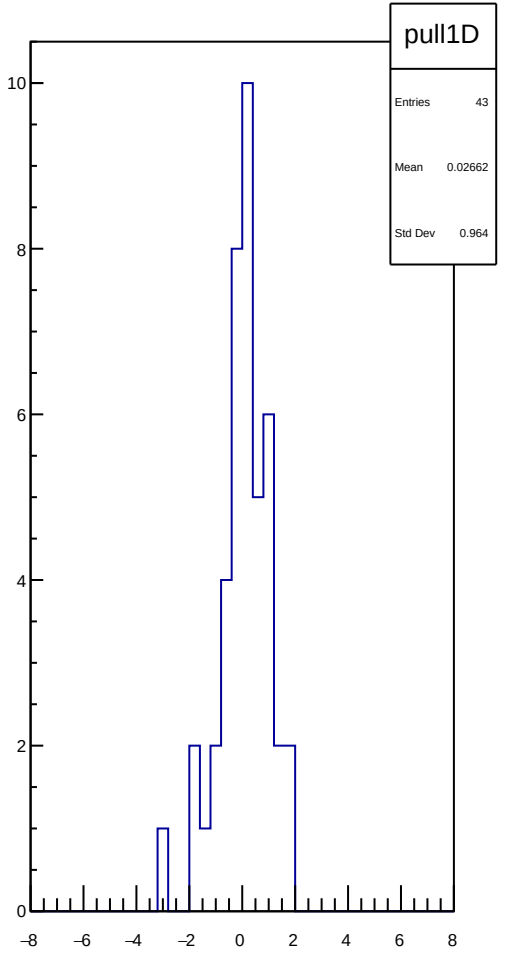
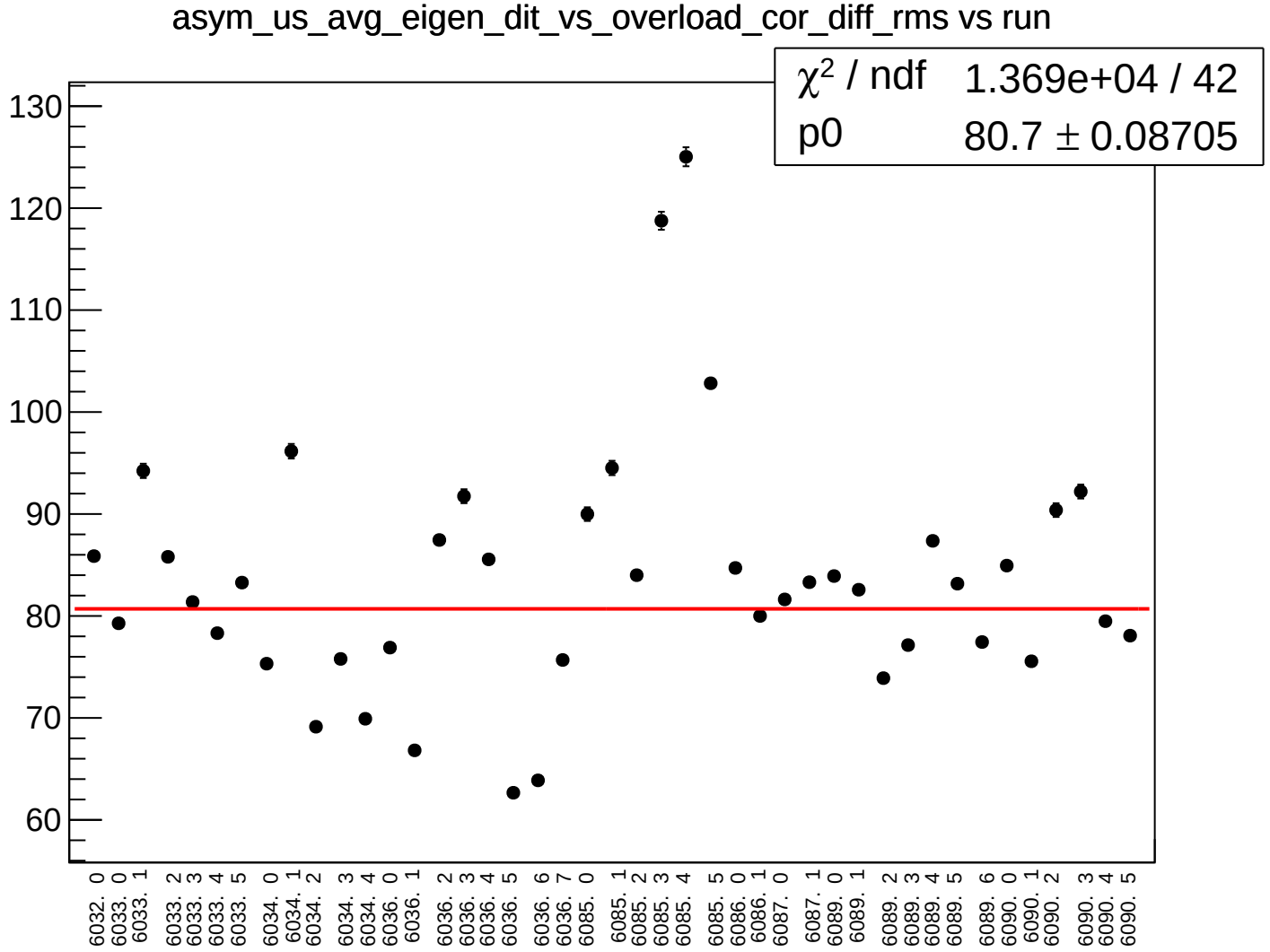
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run








asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.369e+04 / 42
p0 80.7 ± 0.08705
130
120
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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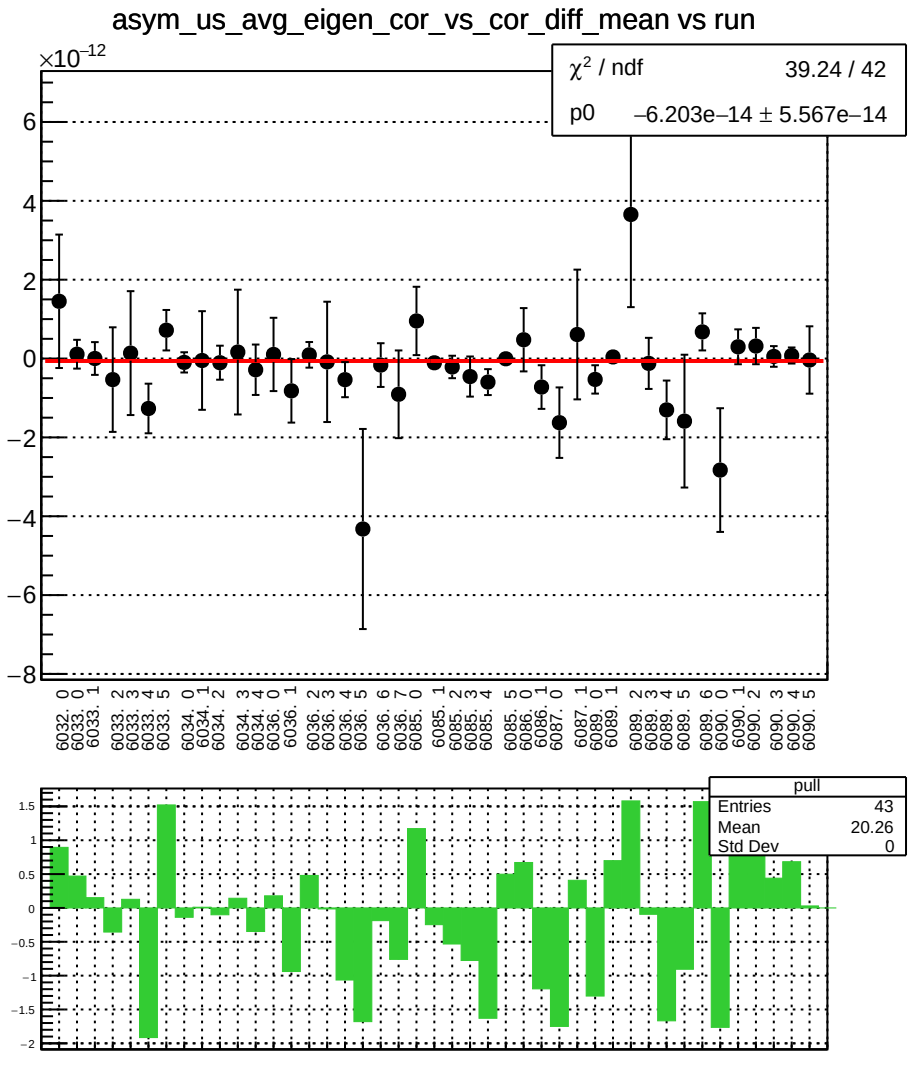
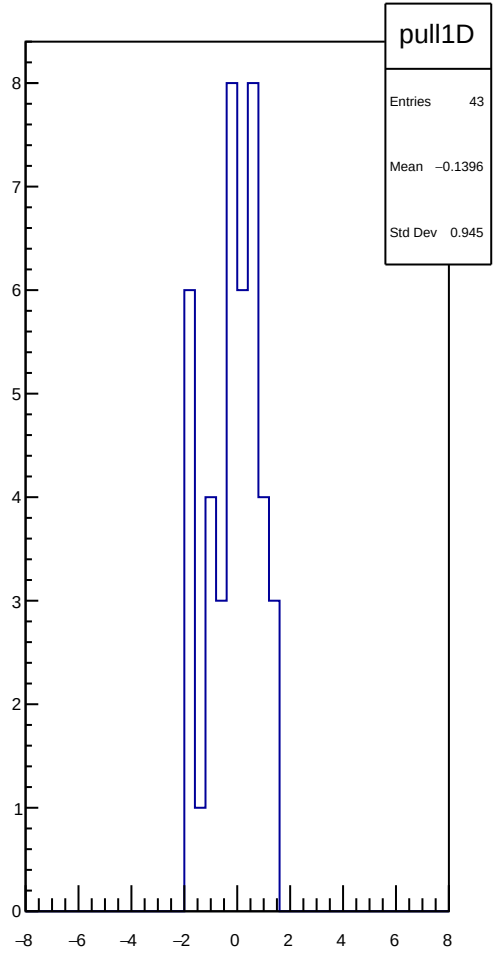
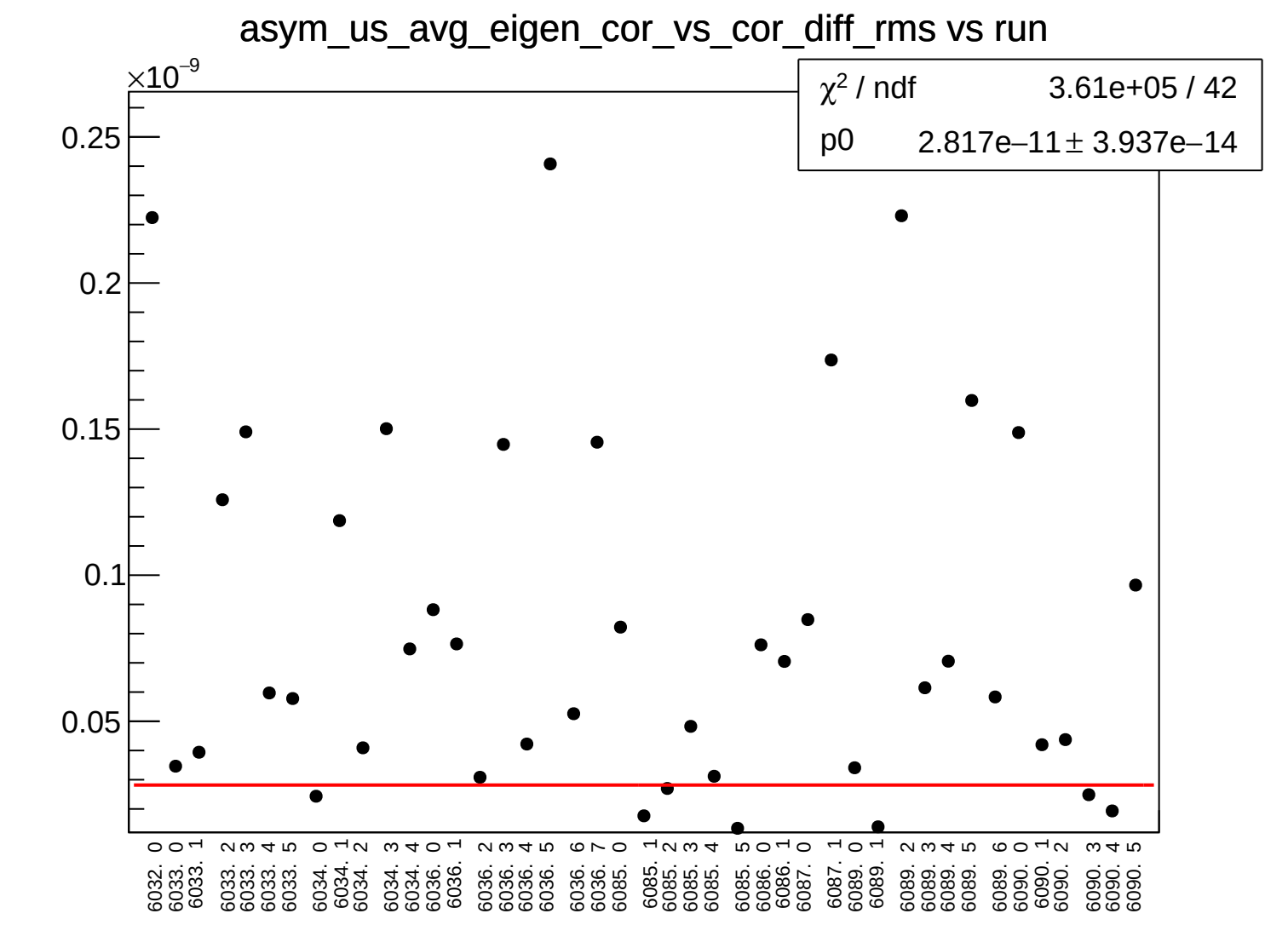
6090. 5


asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.24 / 42
p0 −6.203e−14 ± 5.567e−14
pull
Entries 43
Mean 20.26
Std Dev 0


pull1D
Entries 43
Mean −0.1396
Std Dev 0.945


asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.61e+05 / 42
p0 2.817e−11 ± 3.937e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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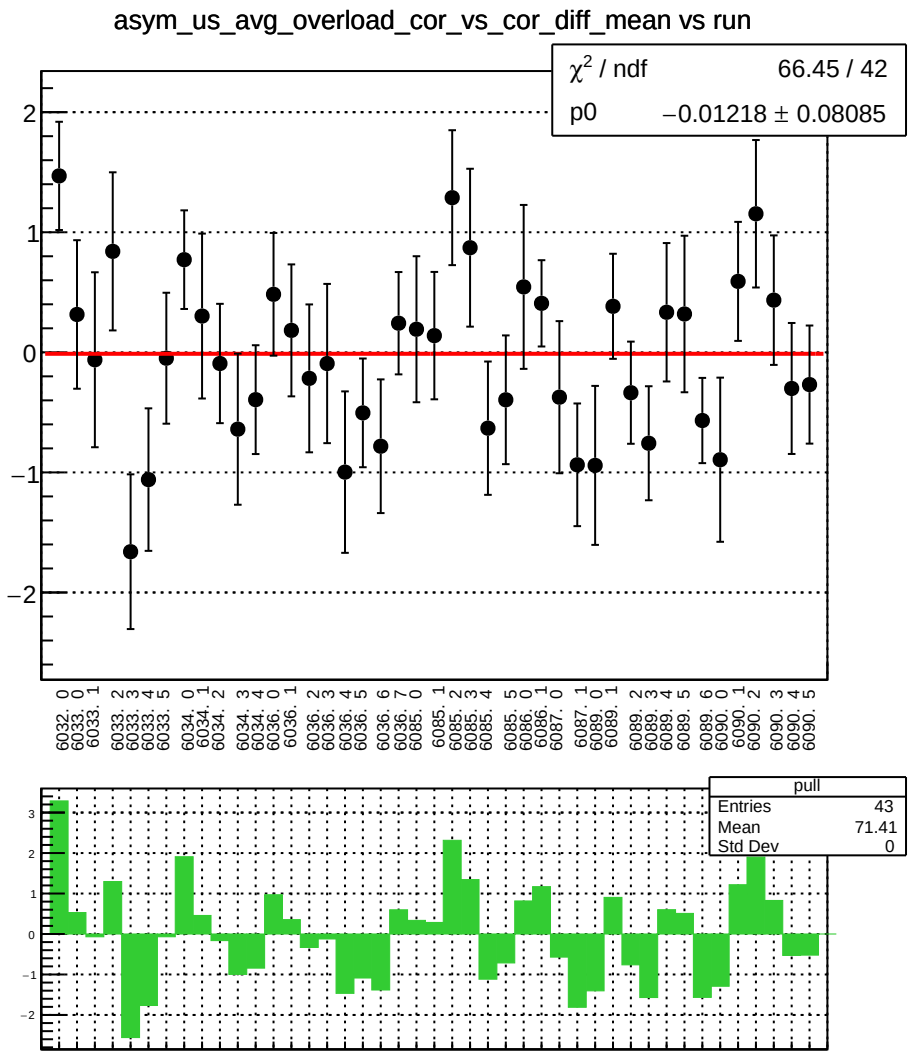
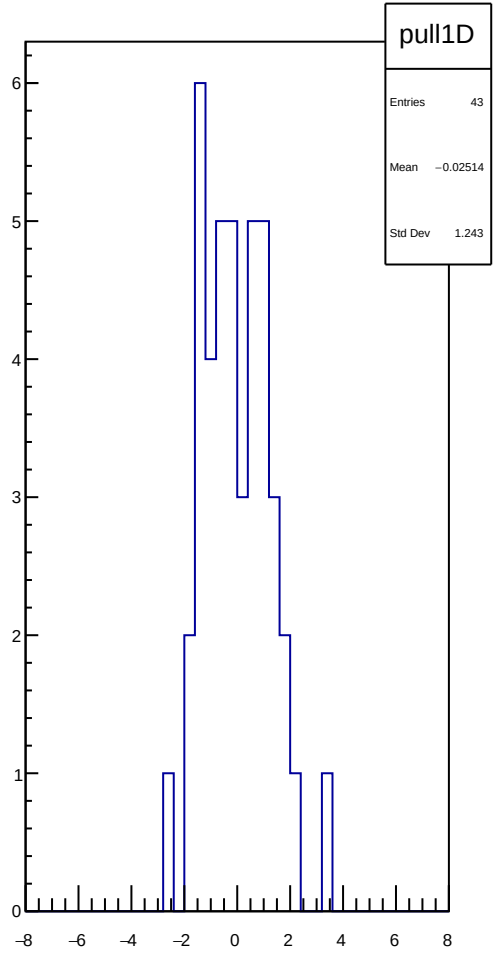
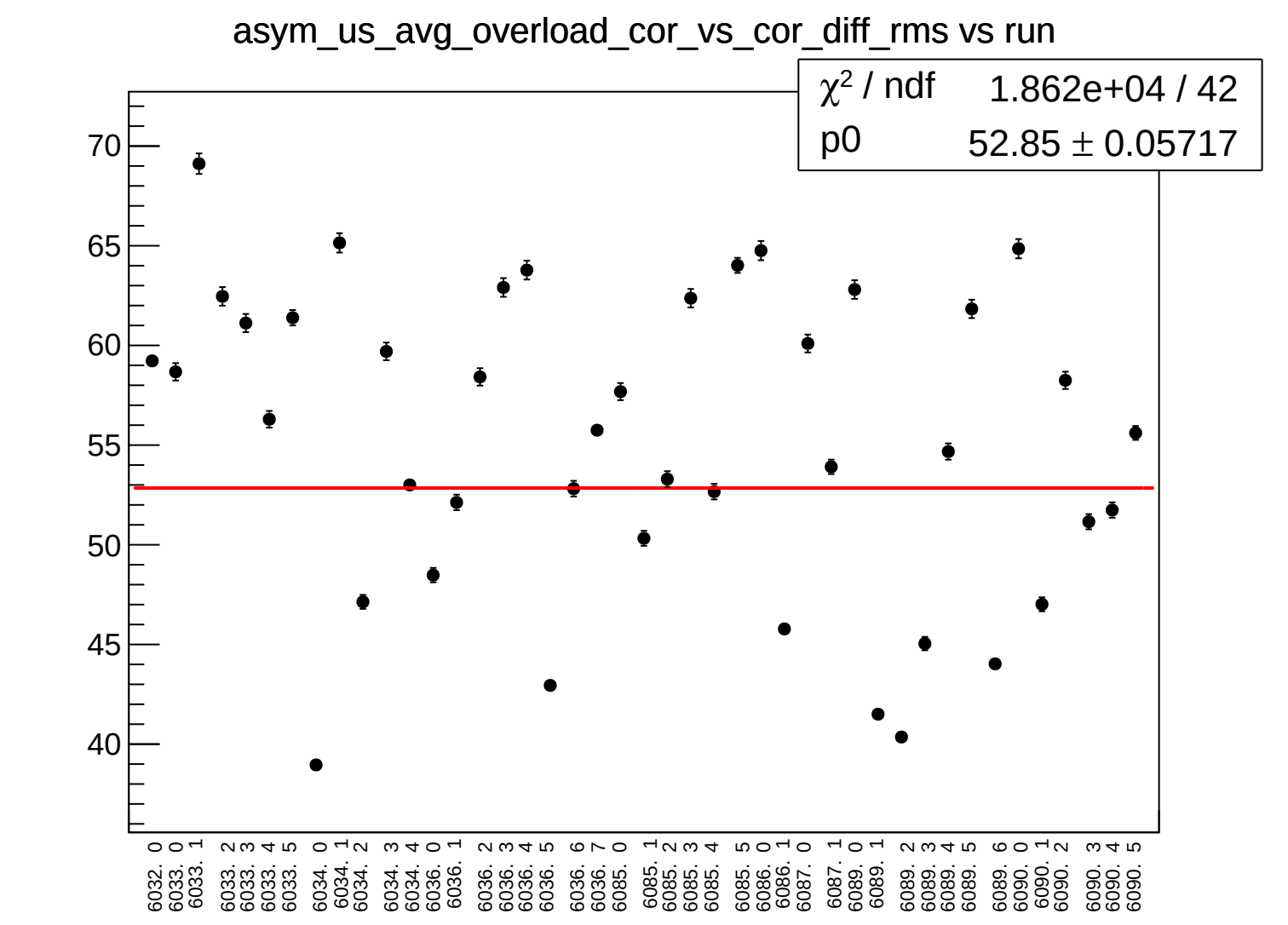
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 66.45 / 42
p0 −0.01218 ± 0.08085
pull
Entries 43
Mean 71.41
Std Dev 0


pull1D
Entries 43
Mean −0.02514
Std Dev 1.243


asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.862e+04 / 42
p0 52.85 ± 0.05717
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
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6089. 6
6090. 0
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6090. 2
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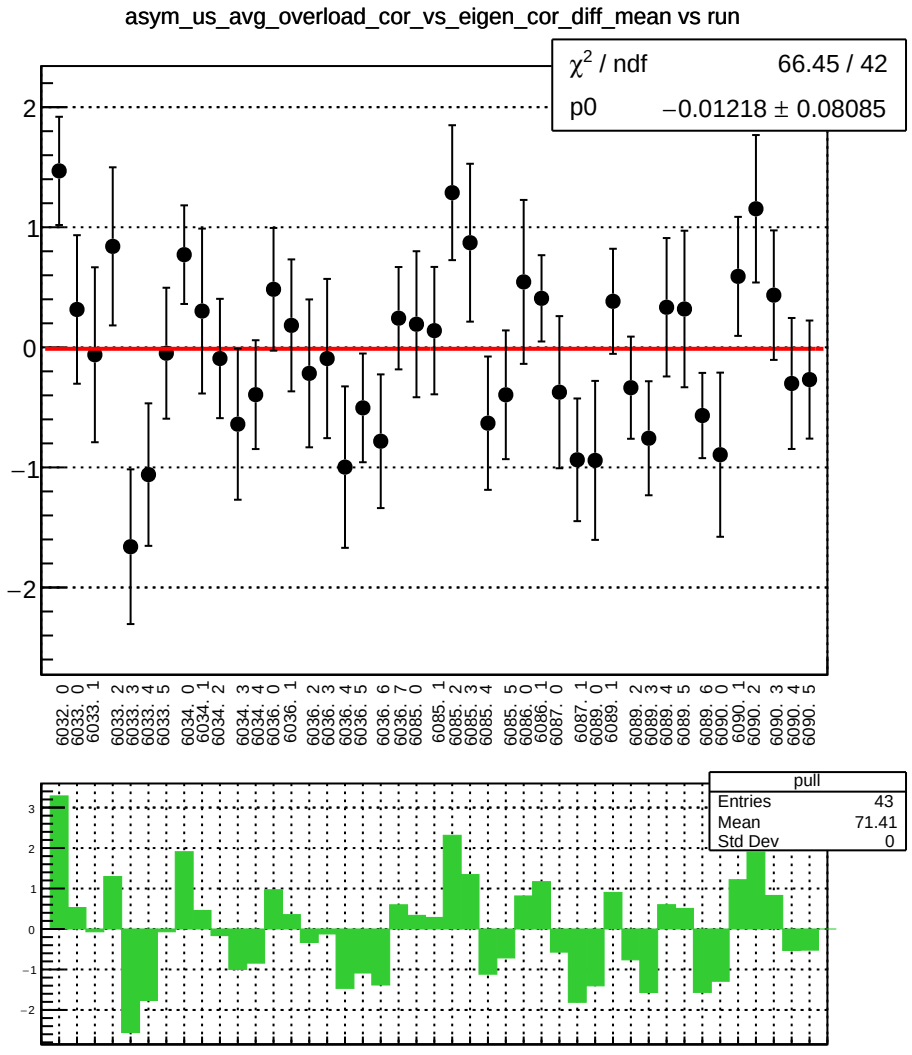
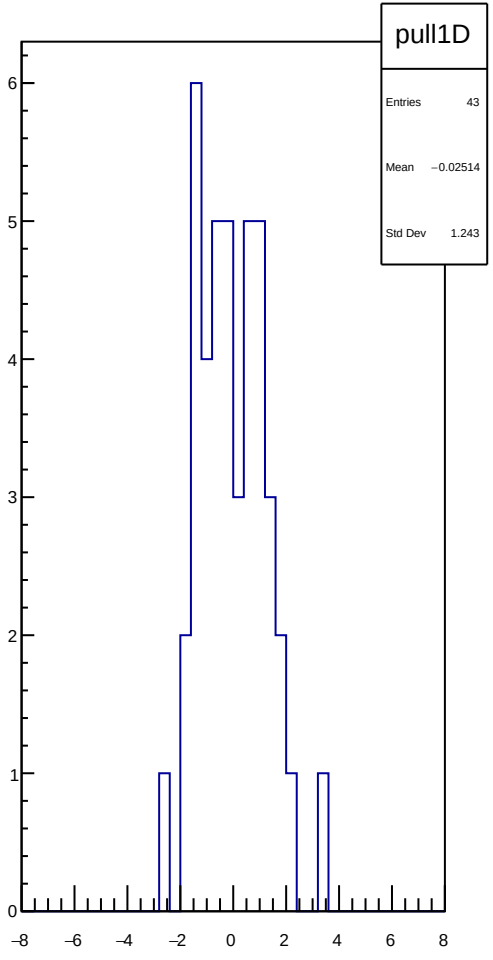
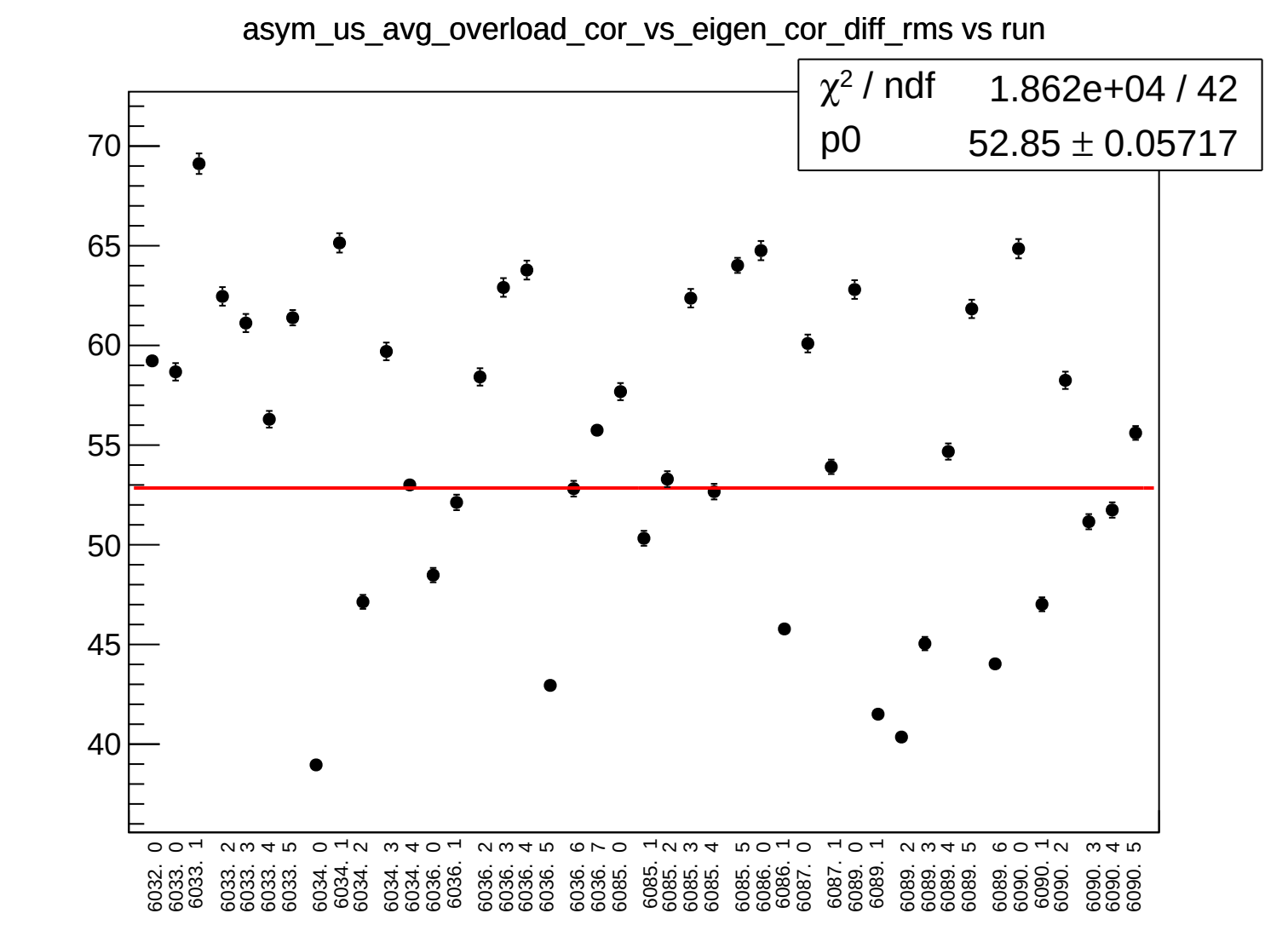
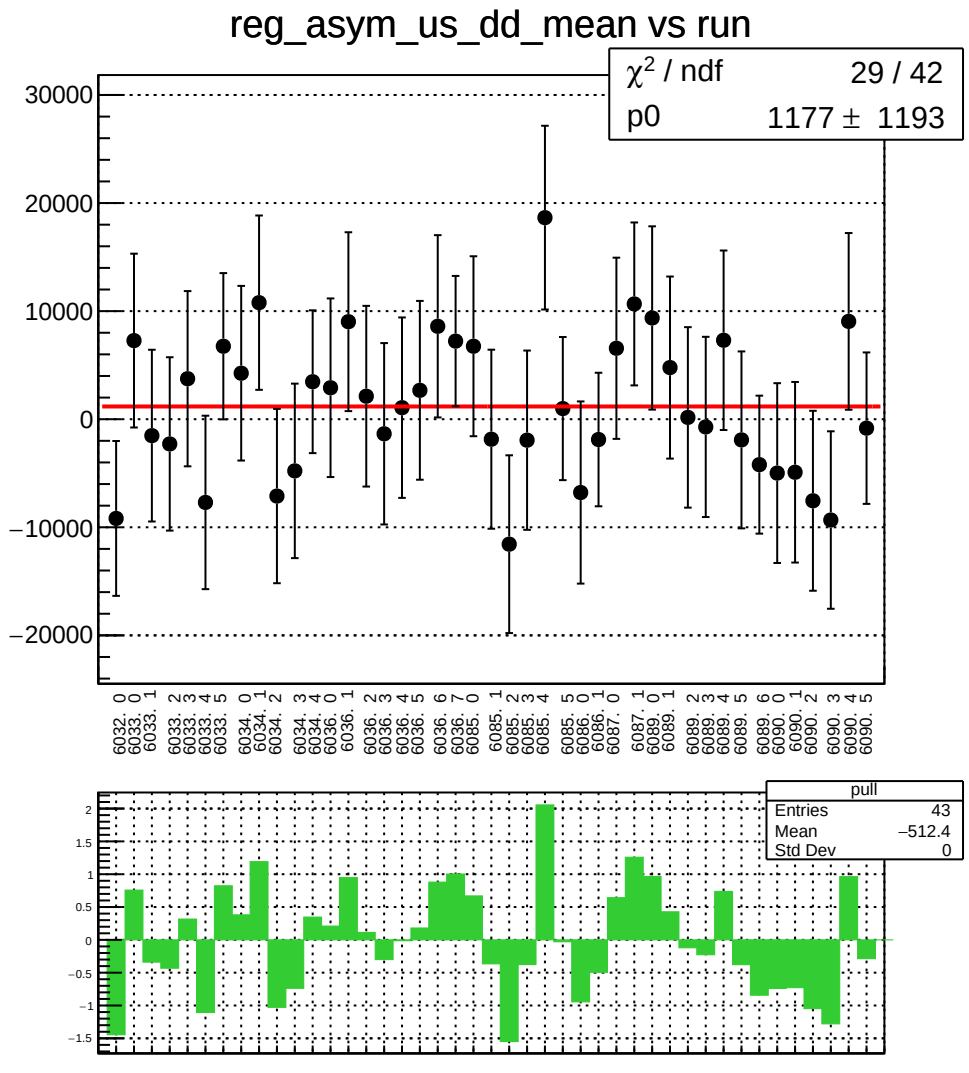
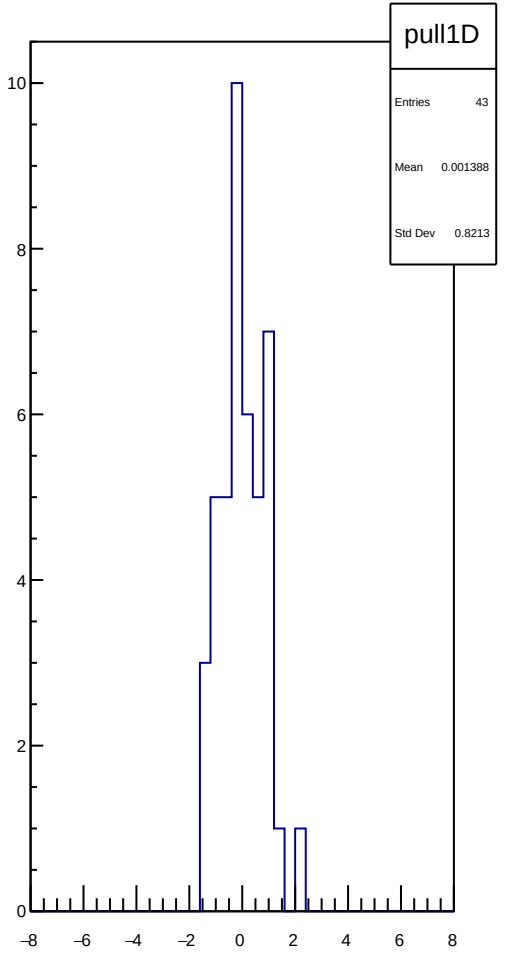
6090. 4
6090. 5

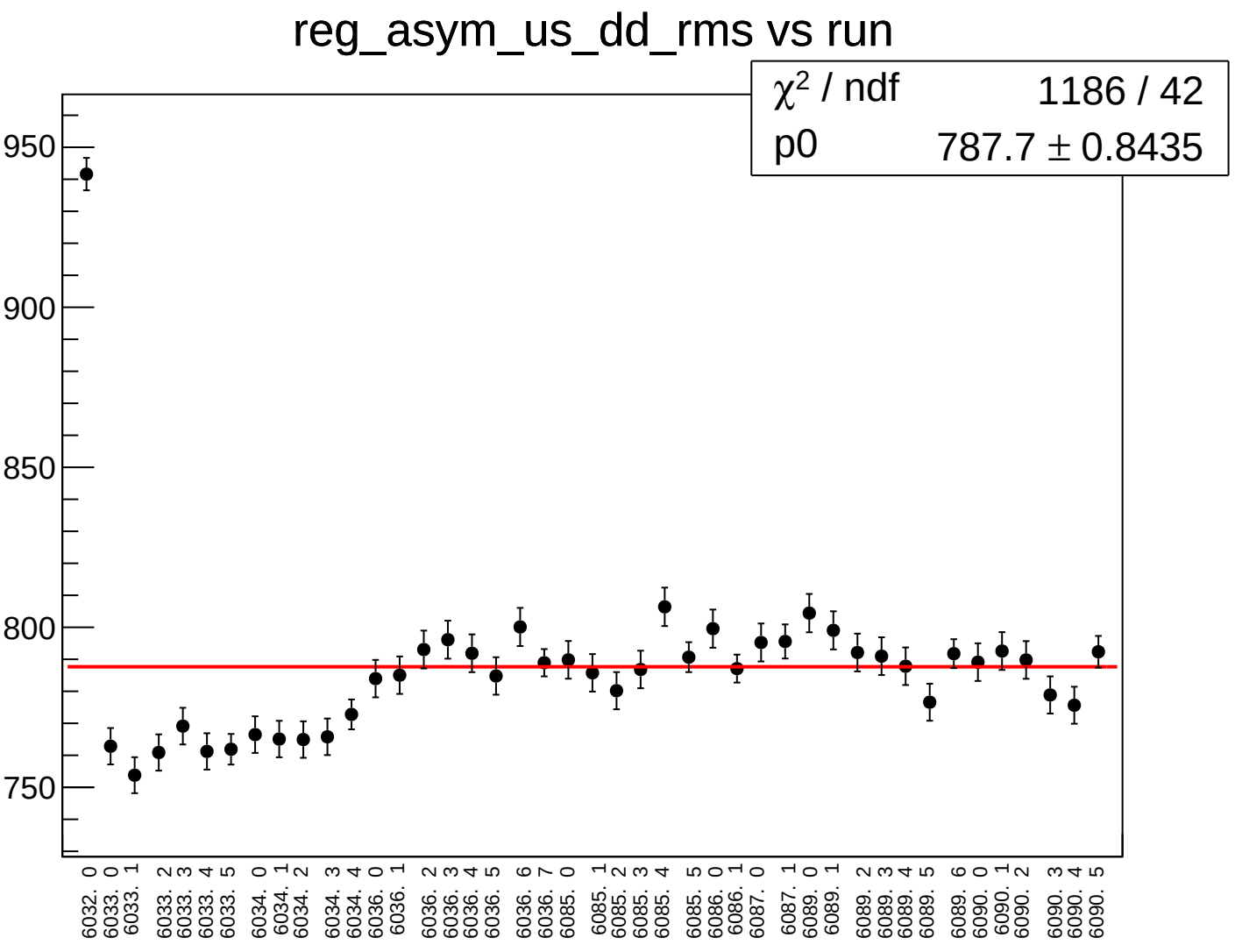

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.45 / 42
p0 −0.01218 ± 0.08085
pull
Entries 43
Mean 71.41
Std Dev 0

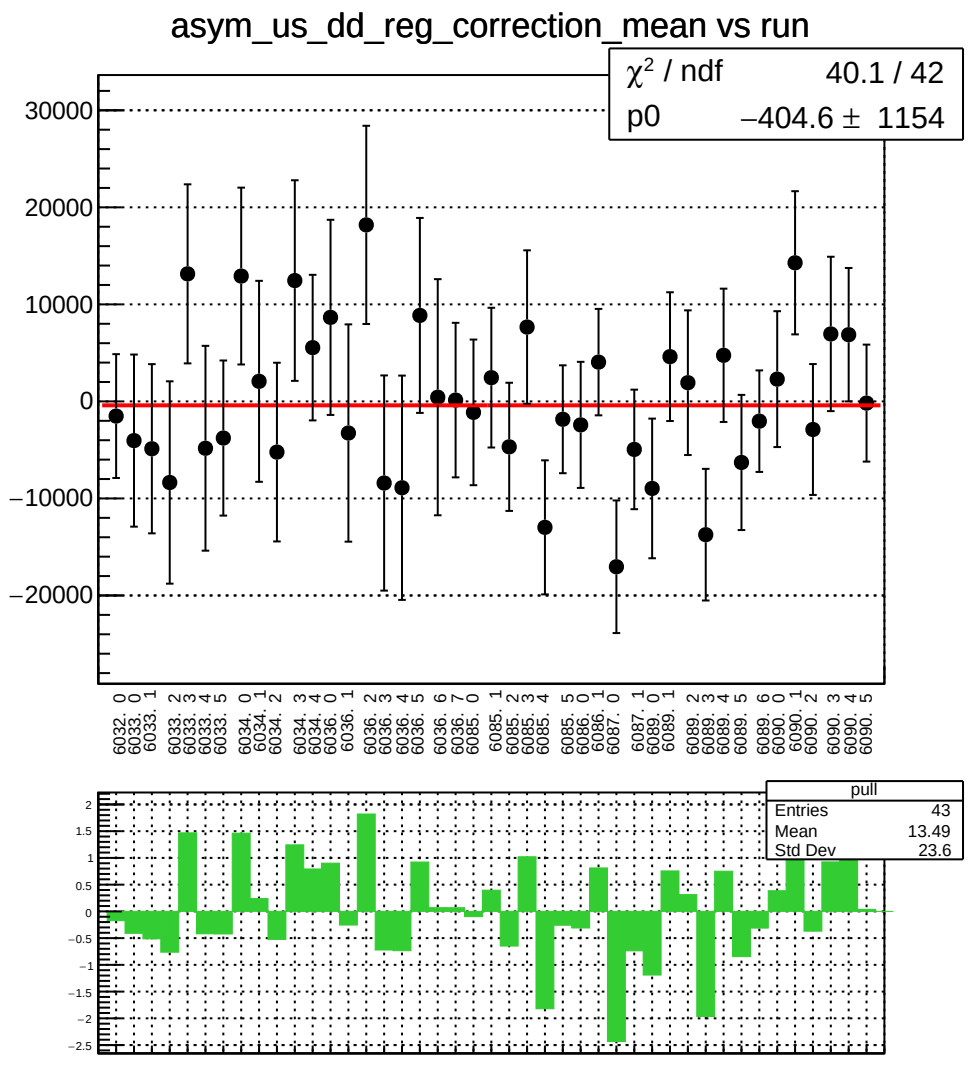

pull1D
Entries 43
Mean −0.02514
Std Dev 1.243

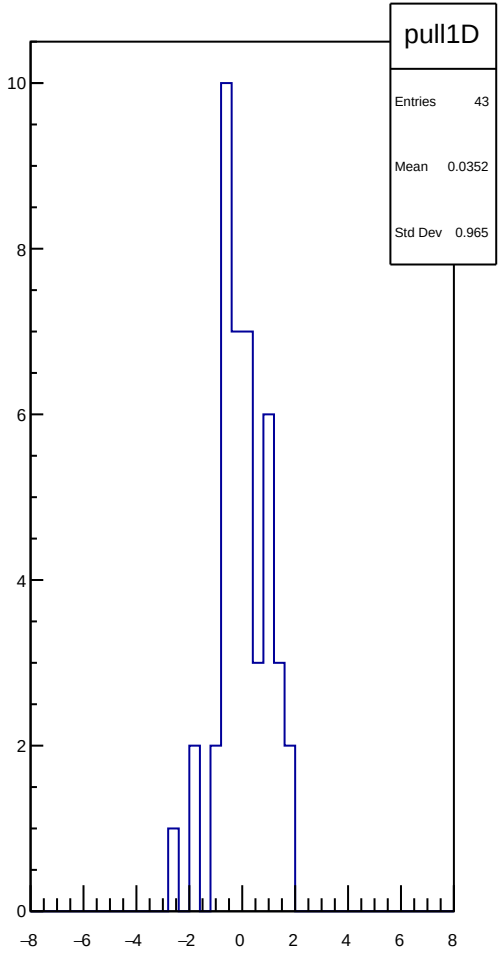

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.862e+04 / 42
p0 52.85 ± 0.05717
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

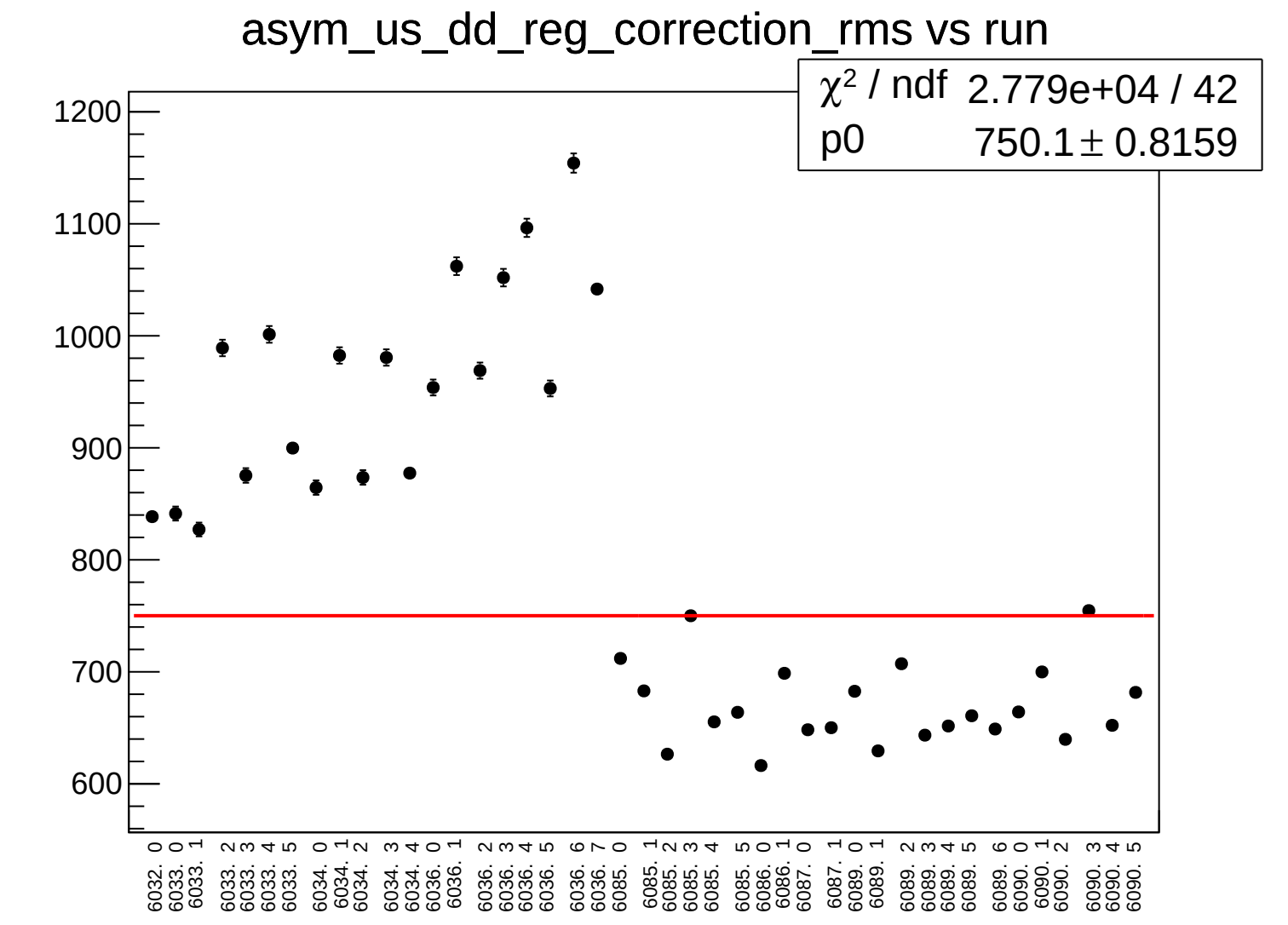

reg_asym_us_dd_mean vs run
χ² / ndf 29 / 42
p0 1177 ± 1193
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −512.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

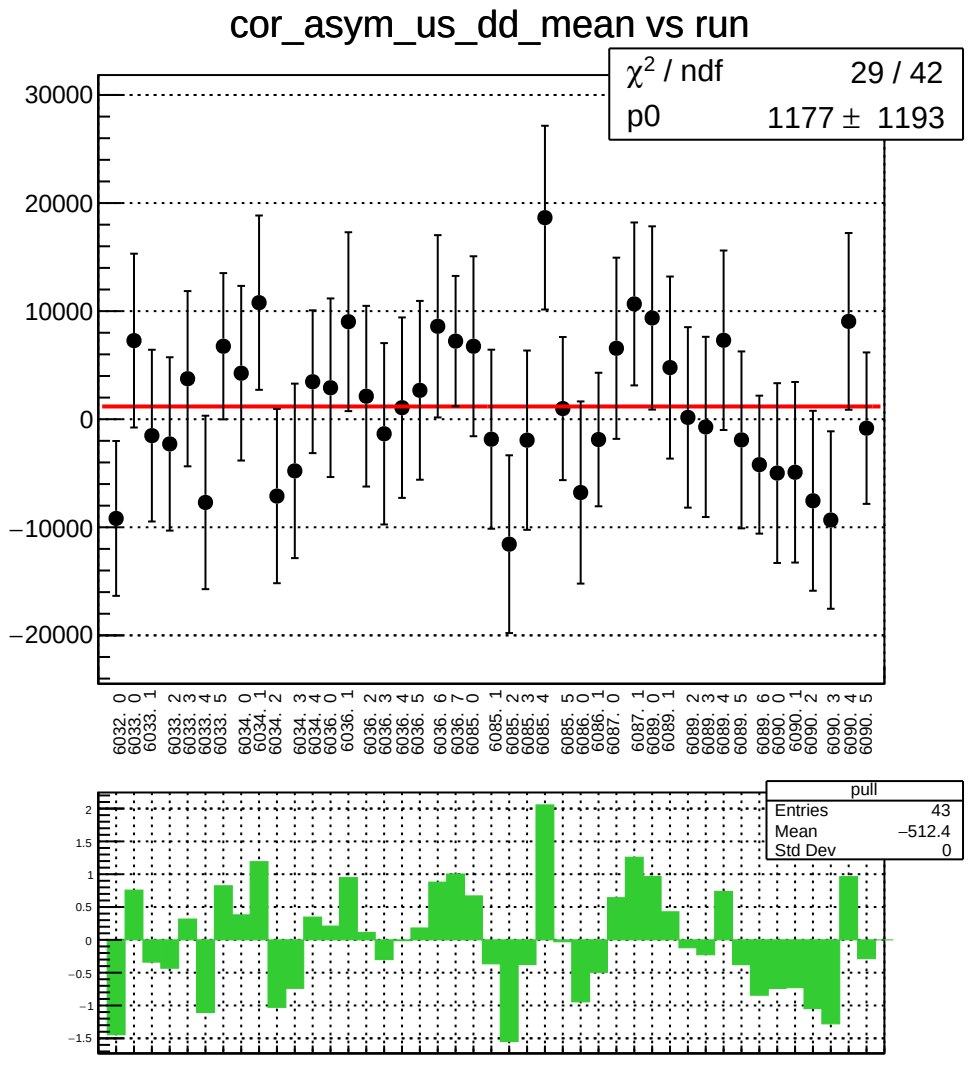

pull1D
Entries 43
Mean 0.001388
Std Dev 0.8213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

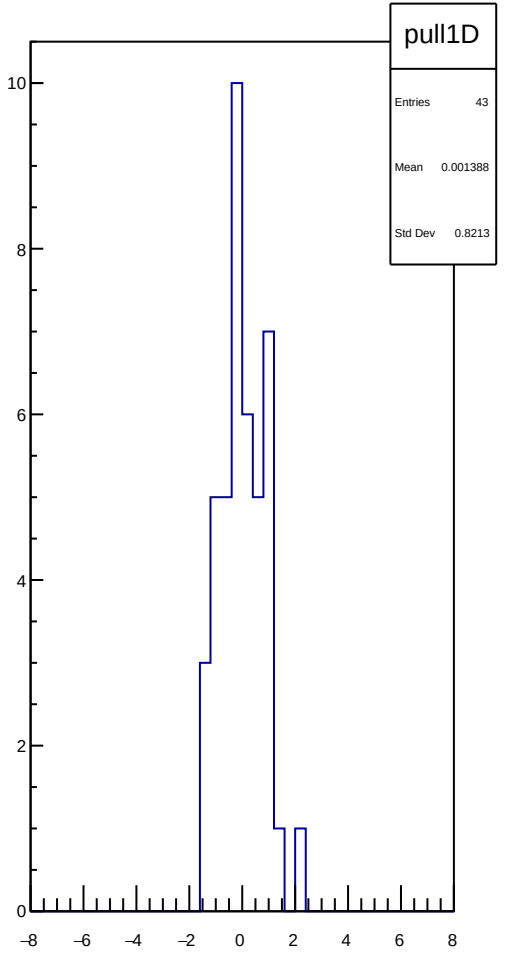

reg_asym_us_dd_rms vs run
χ² / ndf 1186 / 42
p0 787.7 ± 0.8435
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

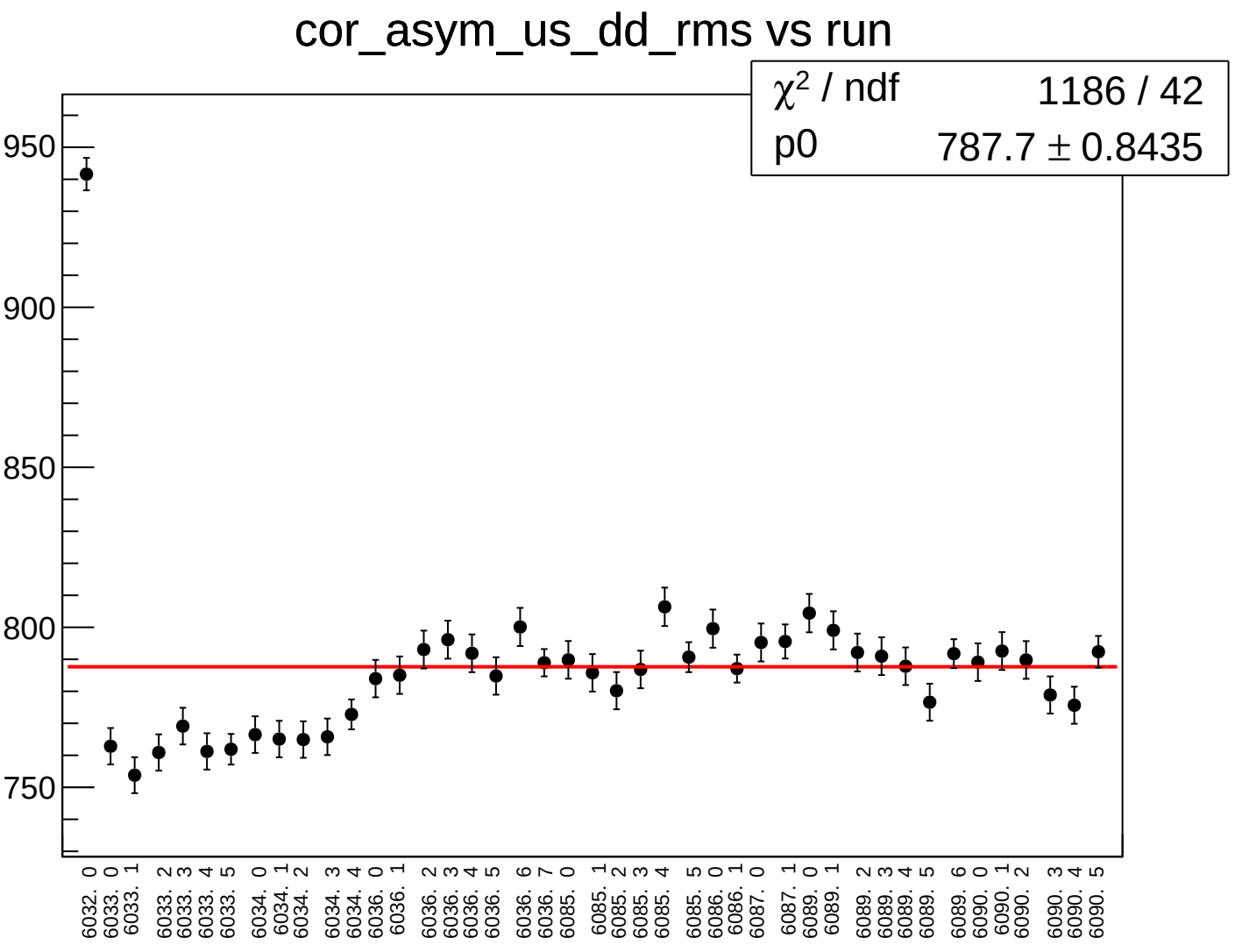

asym_us_dd_reg_correction_mean vs run
χ² / ndf 40.1 / 42
p0 −404.6 ± 1154
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.49
Std Dev 23.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

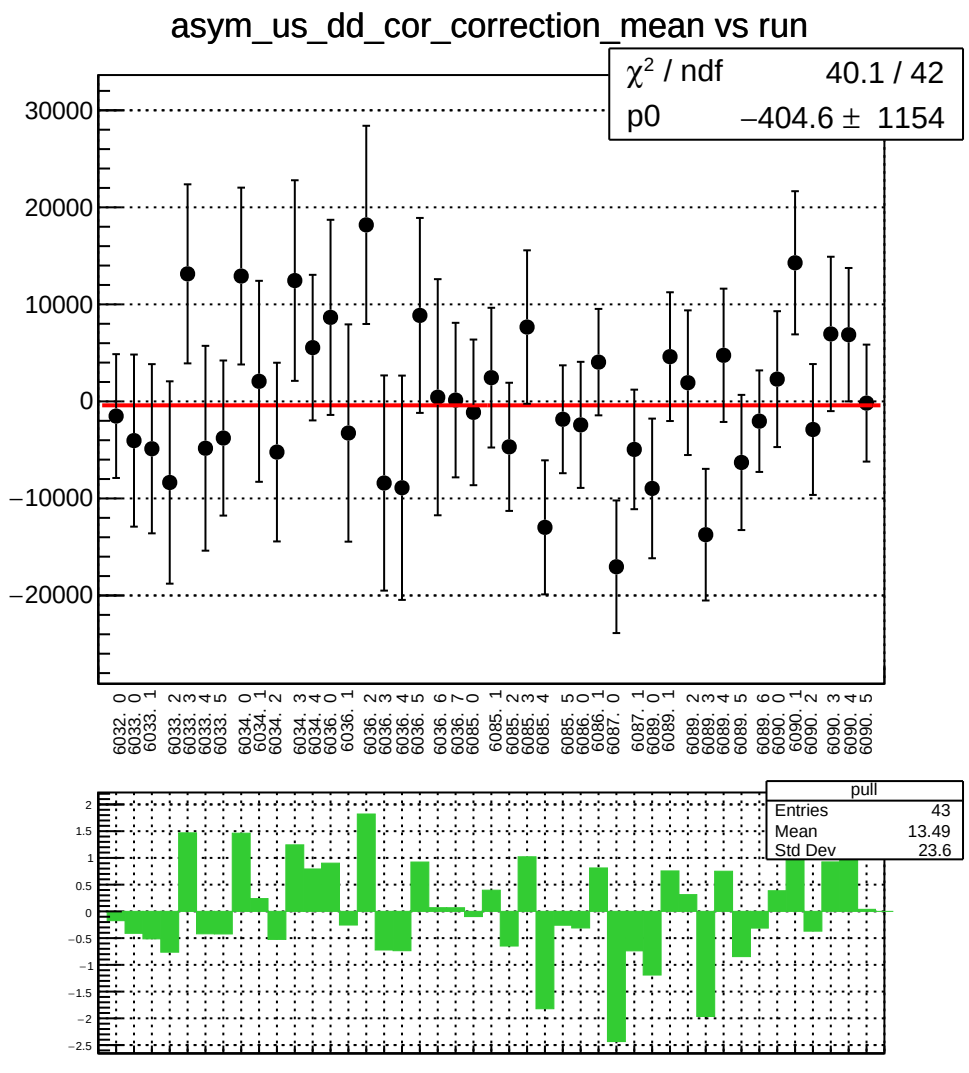

pull1D
Entries 43
Mean 0.0352
Std Dev 0.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

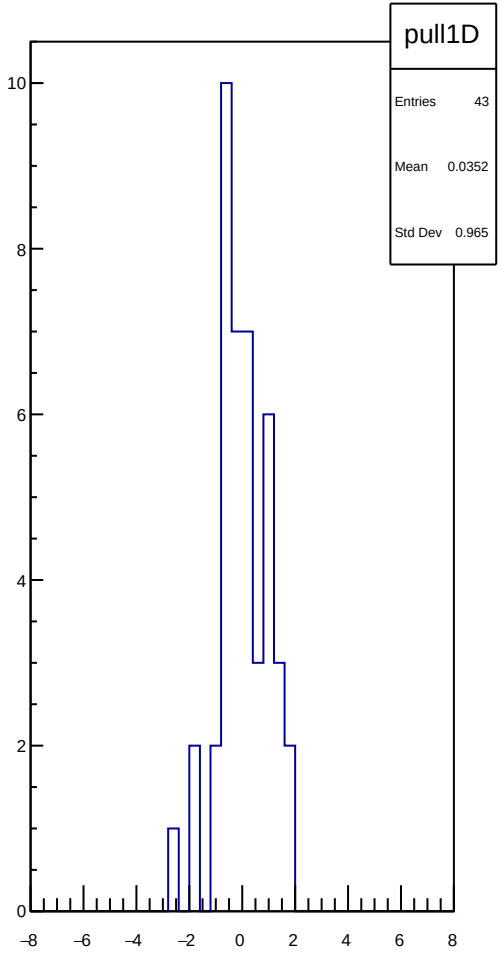

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2.779e+04 / 42
p0 750.1 ± 0.8159
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

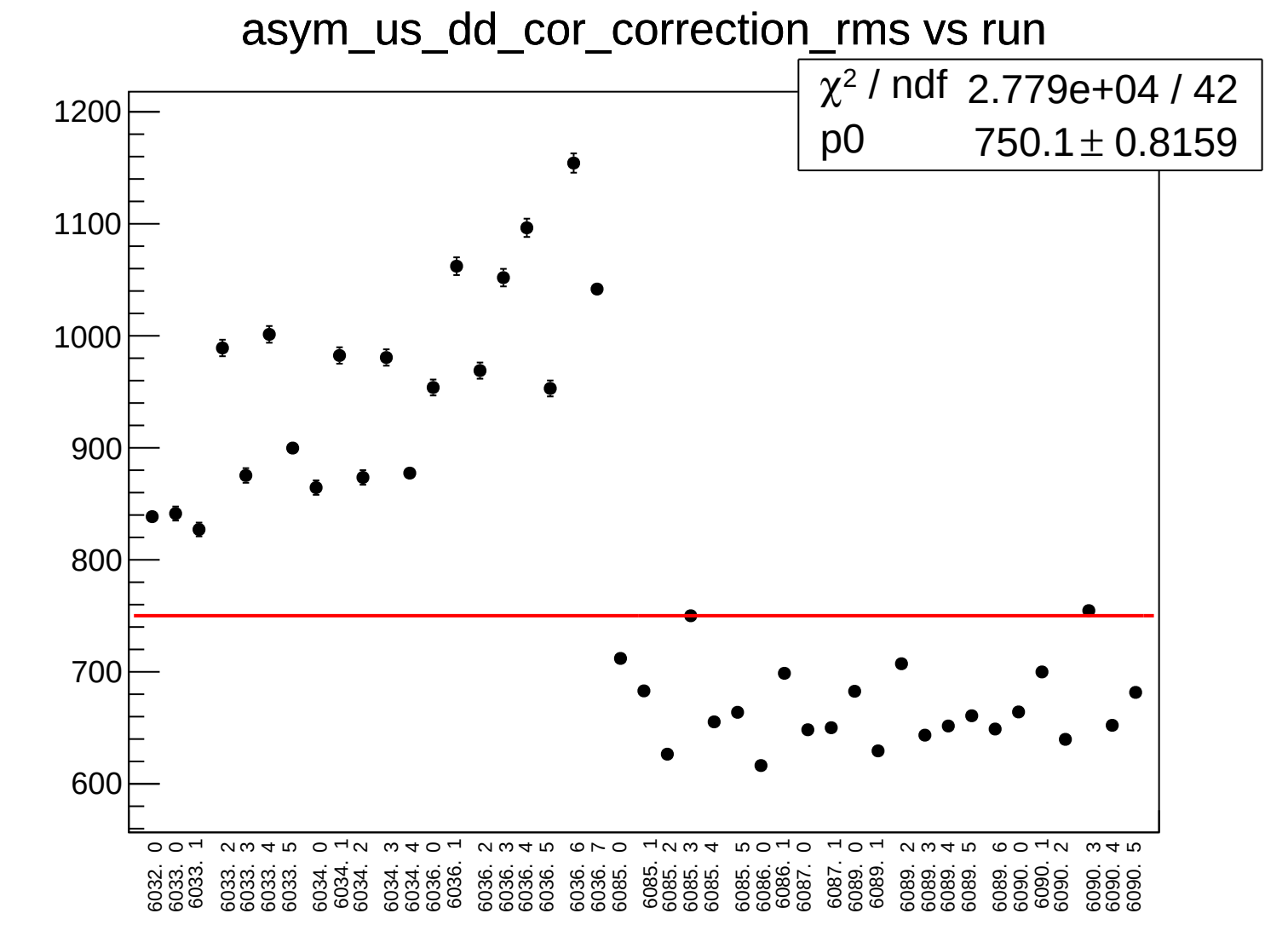

cor_asym_us_dd_mean vs run
χ² / ndf 29 / 42
p0 1177 ± 1193
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −512.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

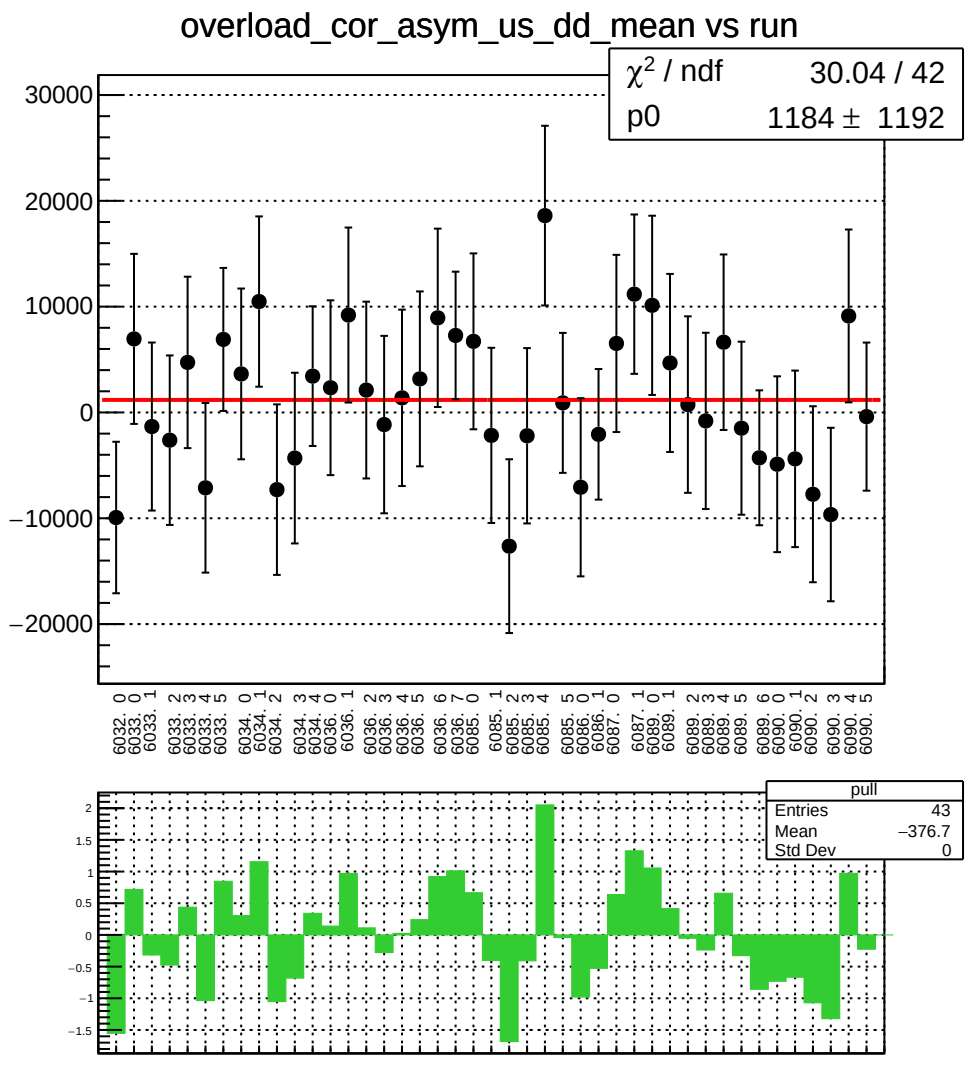

pull1D
Entries 43
Mean 0.001388
Std Dev 0.8213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

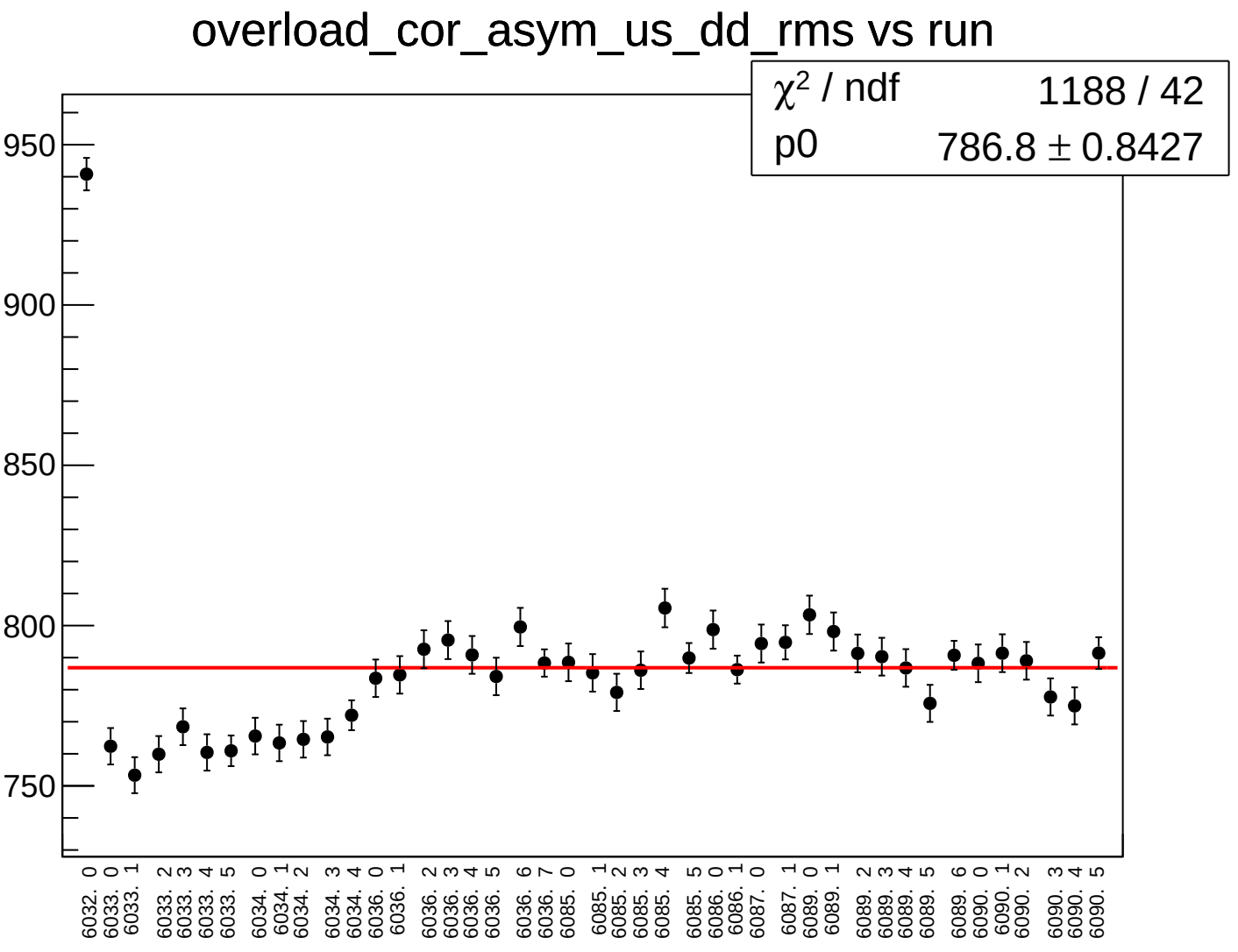

cor_asym_us_dd_rms vs run
χ² / ndf 1186 / 42
p0 787.7 ± 0.8435
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

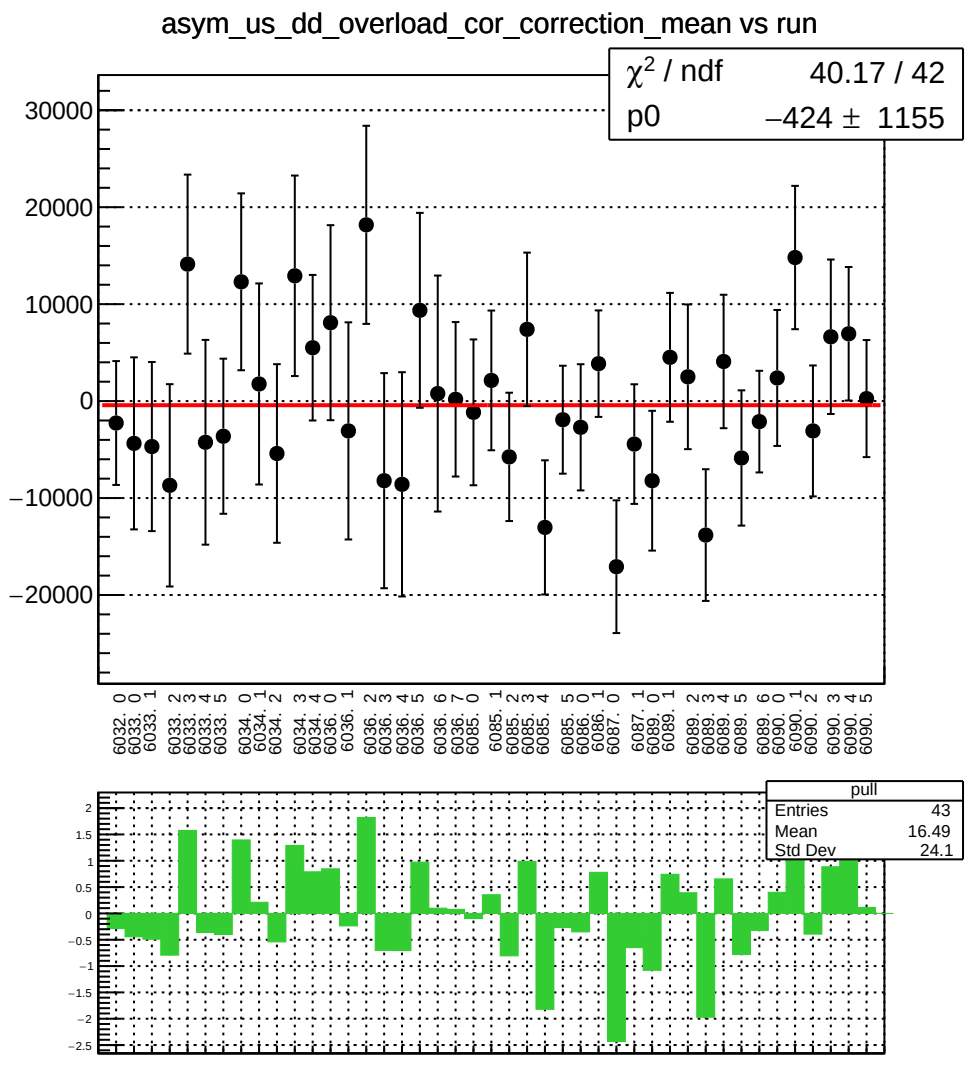

asym_us_dd_cor_correction_mean vs run
χ² / ndf 40.1 / 42
p0 −404.6 ± 1154
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.49
Std Dev 23.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

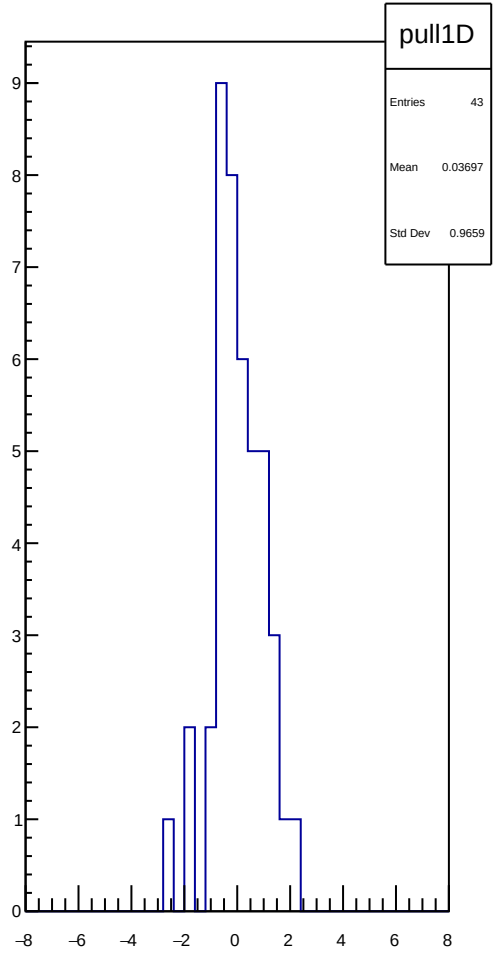

pull1D
Entries 43
Mean 0.0352
Std Dev 0.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

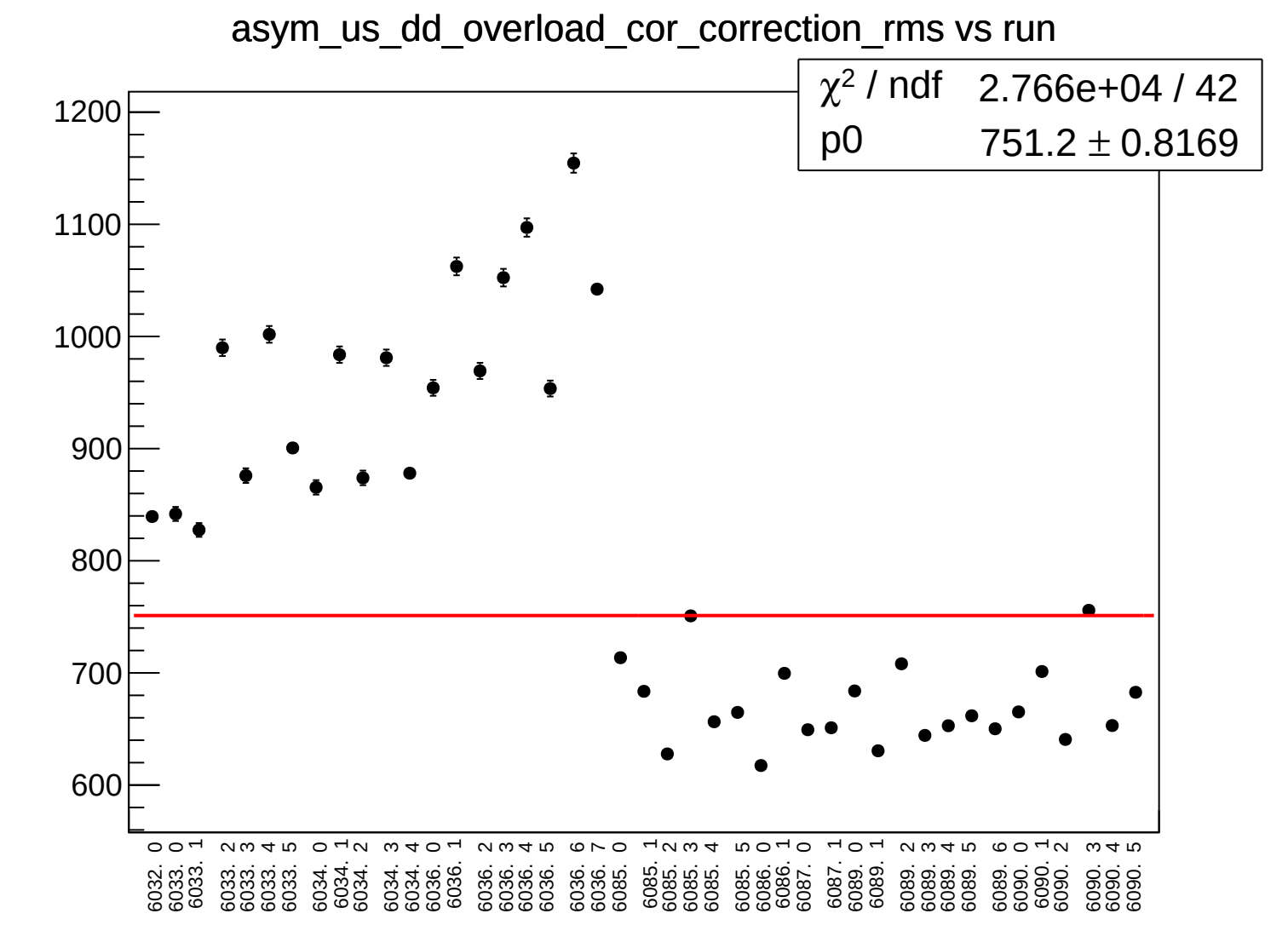

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2.779e+04 / 42
p0 750.1 ± 0.8159
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

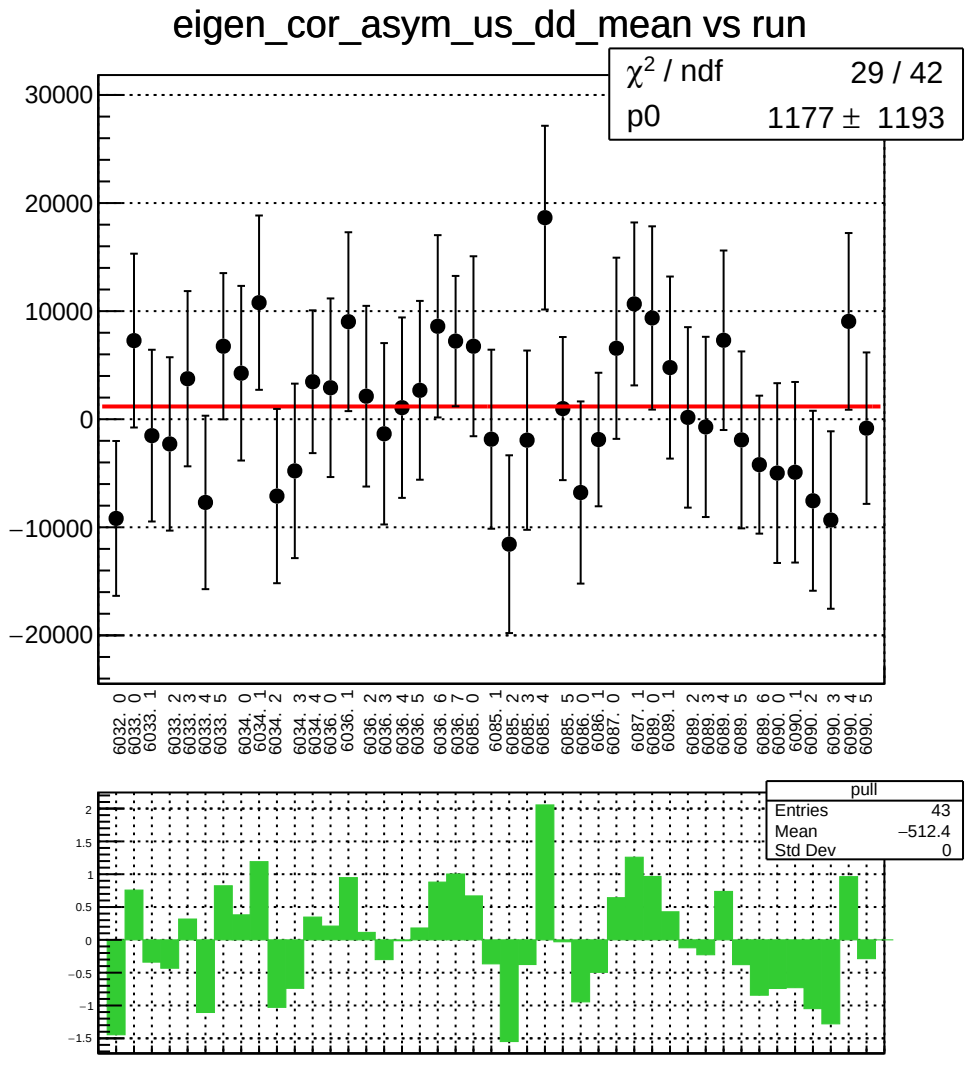

overload_cor_asym_us_dd_mean vs run
χ² / ndf 30.04 / 42
p0 1184 ± 1192
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −376.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001687
Std Dev 0.8358
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 1188 / 42
p0 786.8 ± 0.8427
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 40.17 / 42
p0 −424 ± 1155
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.49
Std Dev 24.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.03697
Std Dev 0.9659
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2.766e+04 / 42
p0 751.2 ± 0.8169
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 29 / 42
p0 1177 ± 1193
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
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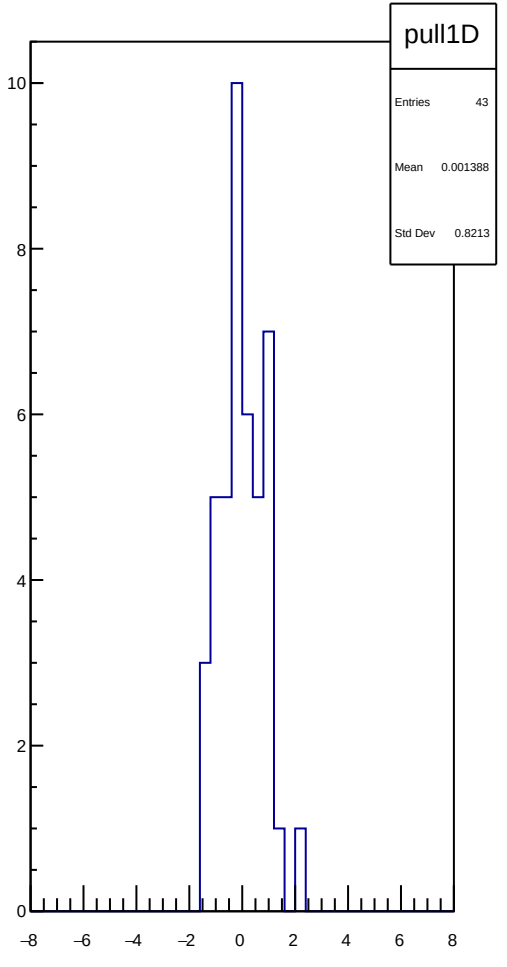
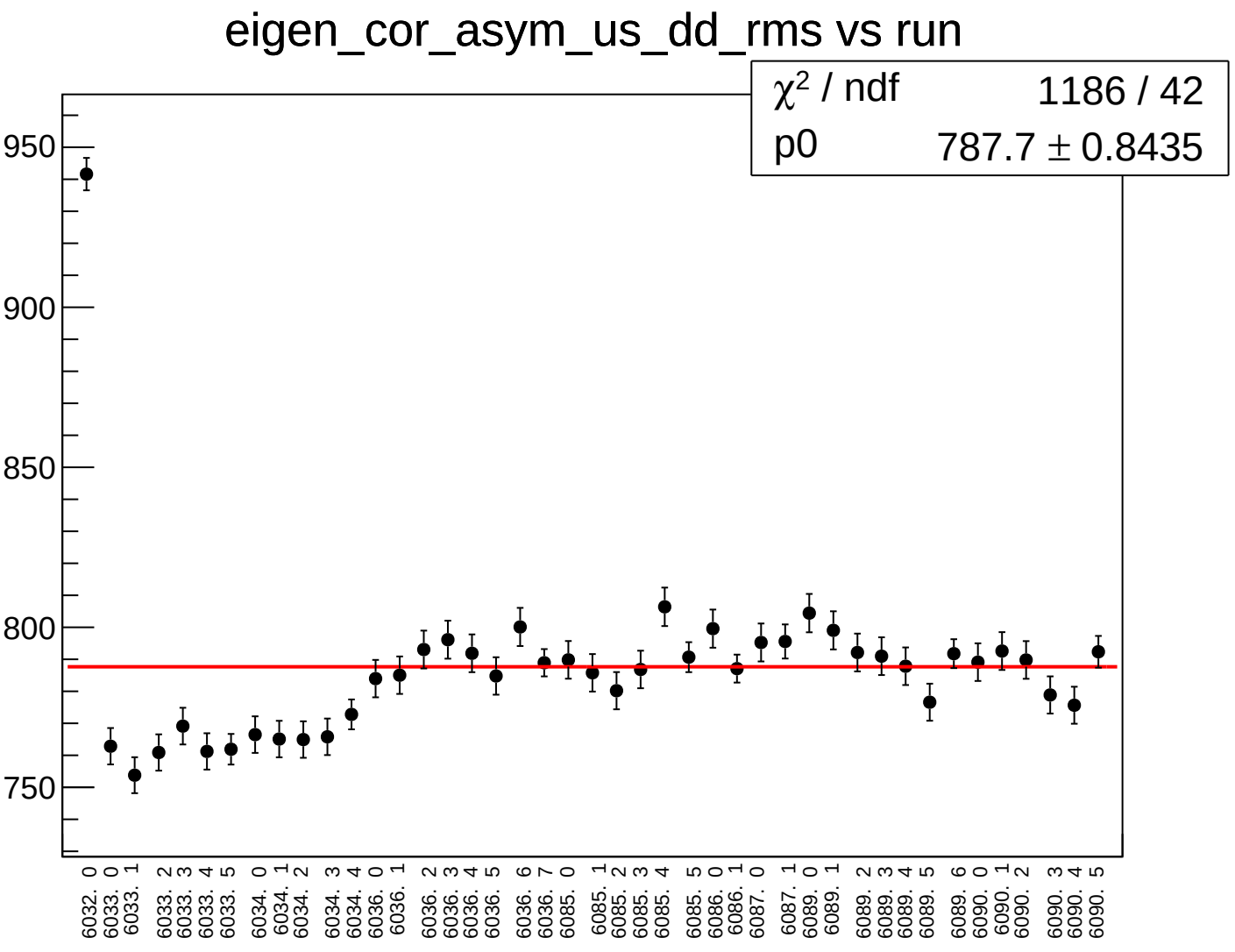
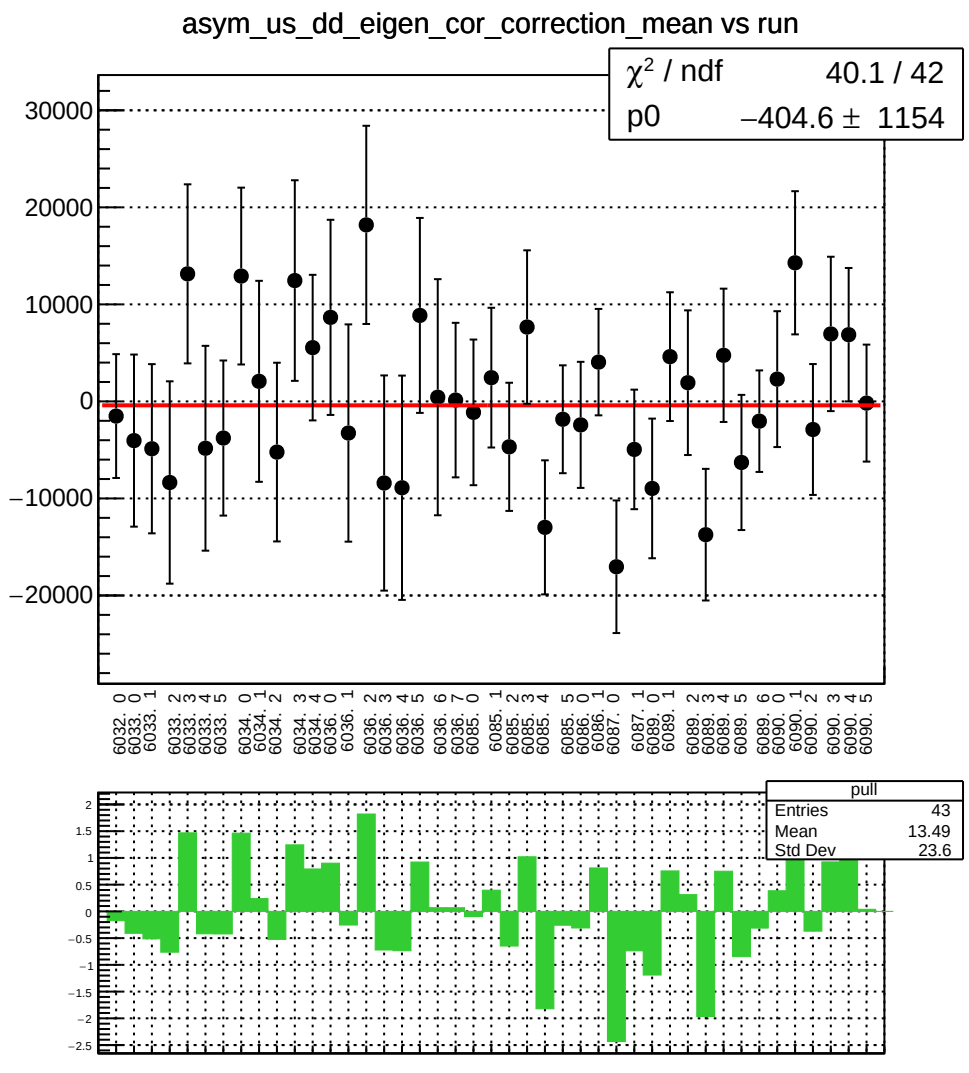
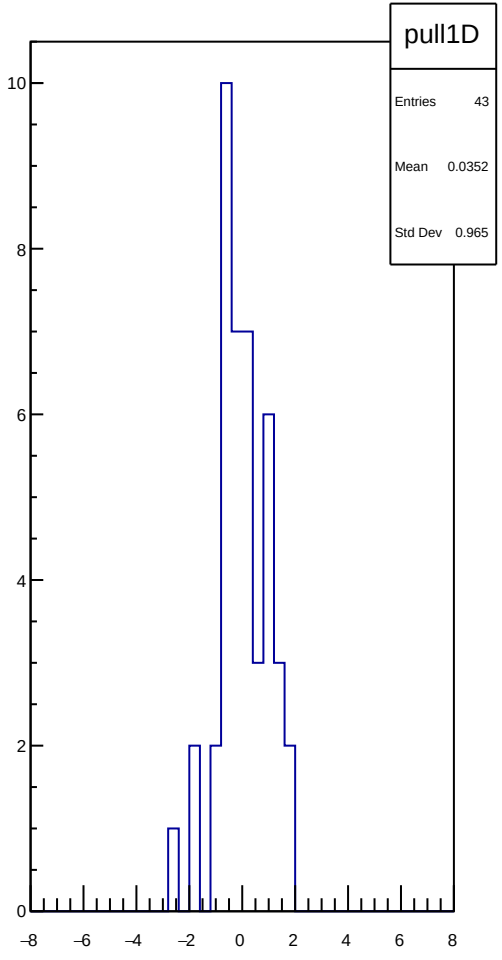
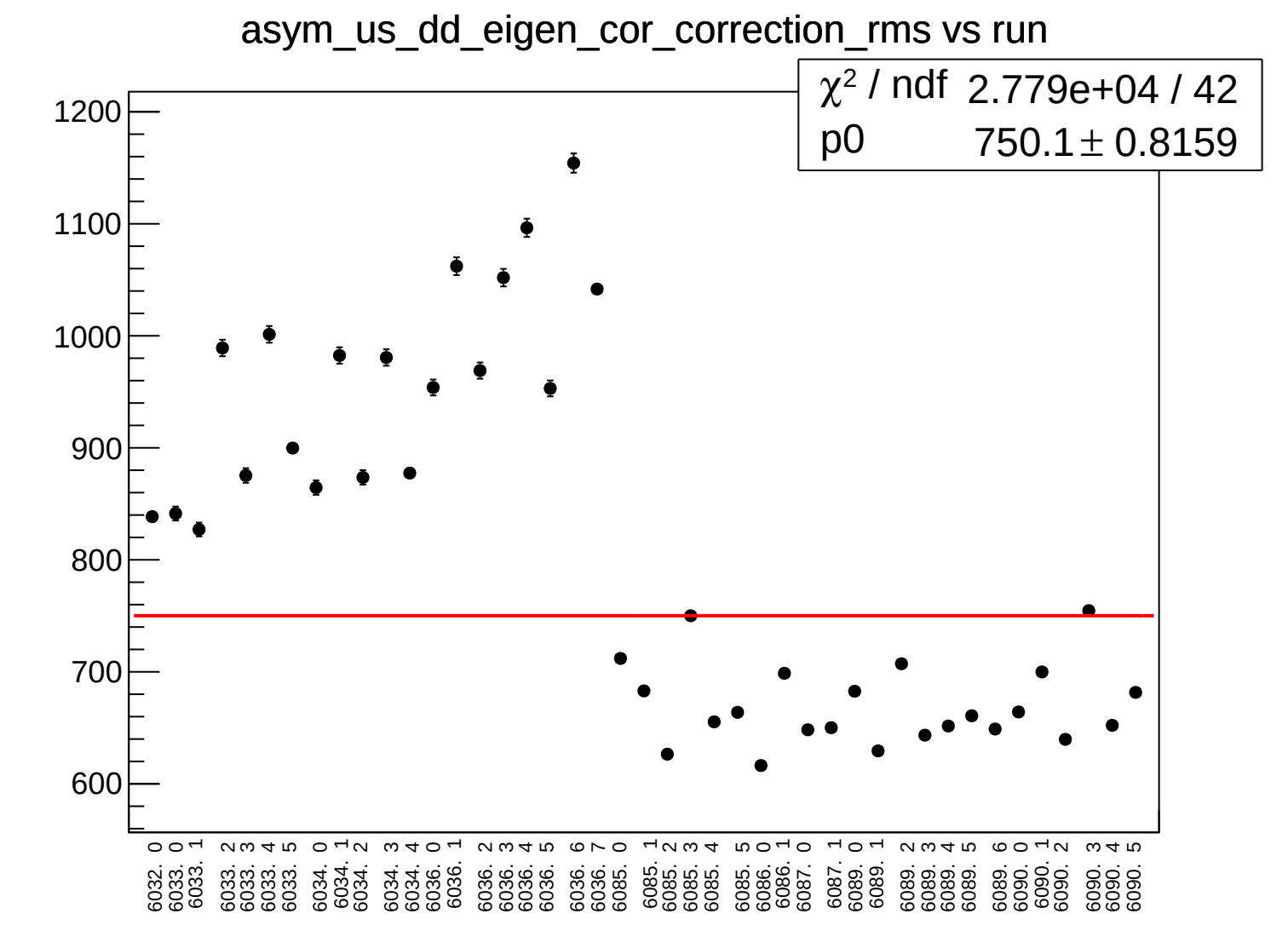
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −512.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.001388
Std Dev 0.8213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_rms vs run
χ² / ndf 1186 / 42
p0 787.7 ± 0.8435
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.1 / 42
p0 −404.6 ± 1154
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.49
Std Dev 23.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.0352
Std Dev 0.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.779e+04 / 42
p0 750.1 ± 0.8159
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
6090. 0
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6090. 2
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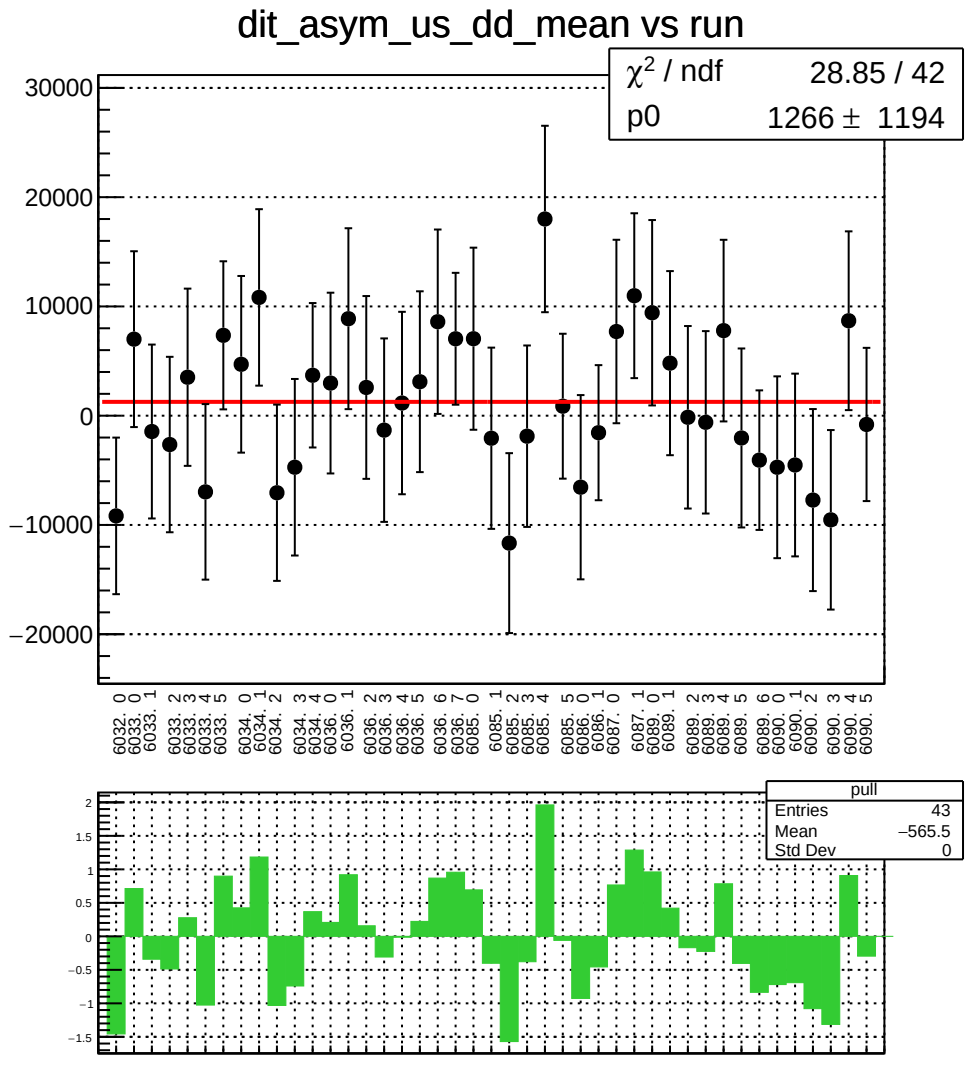
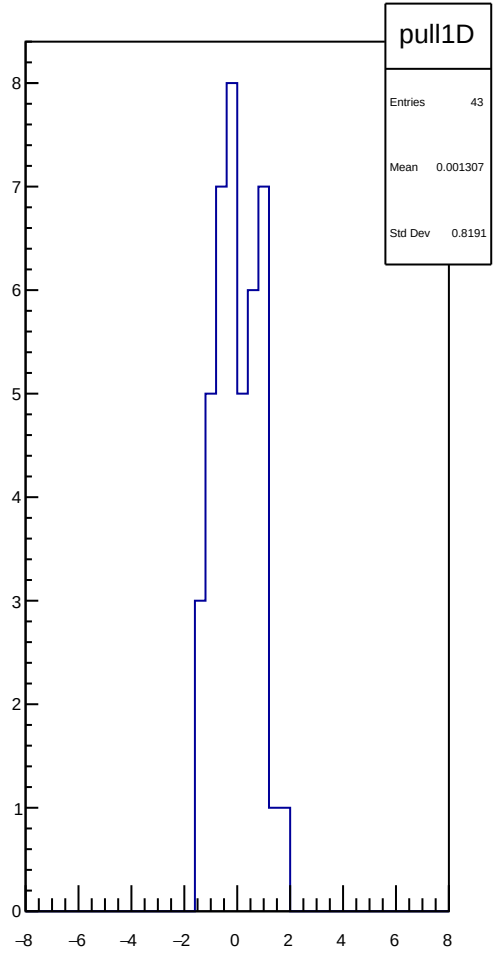
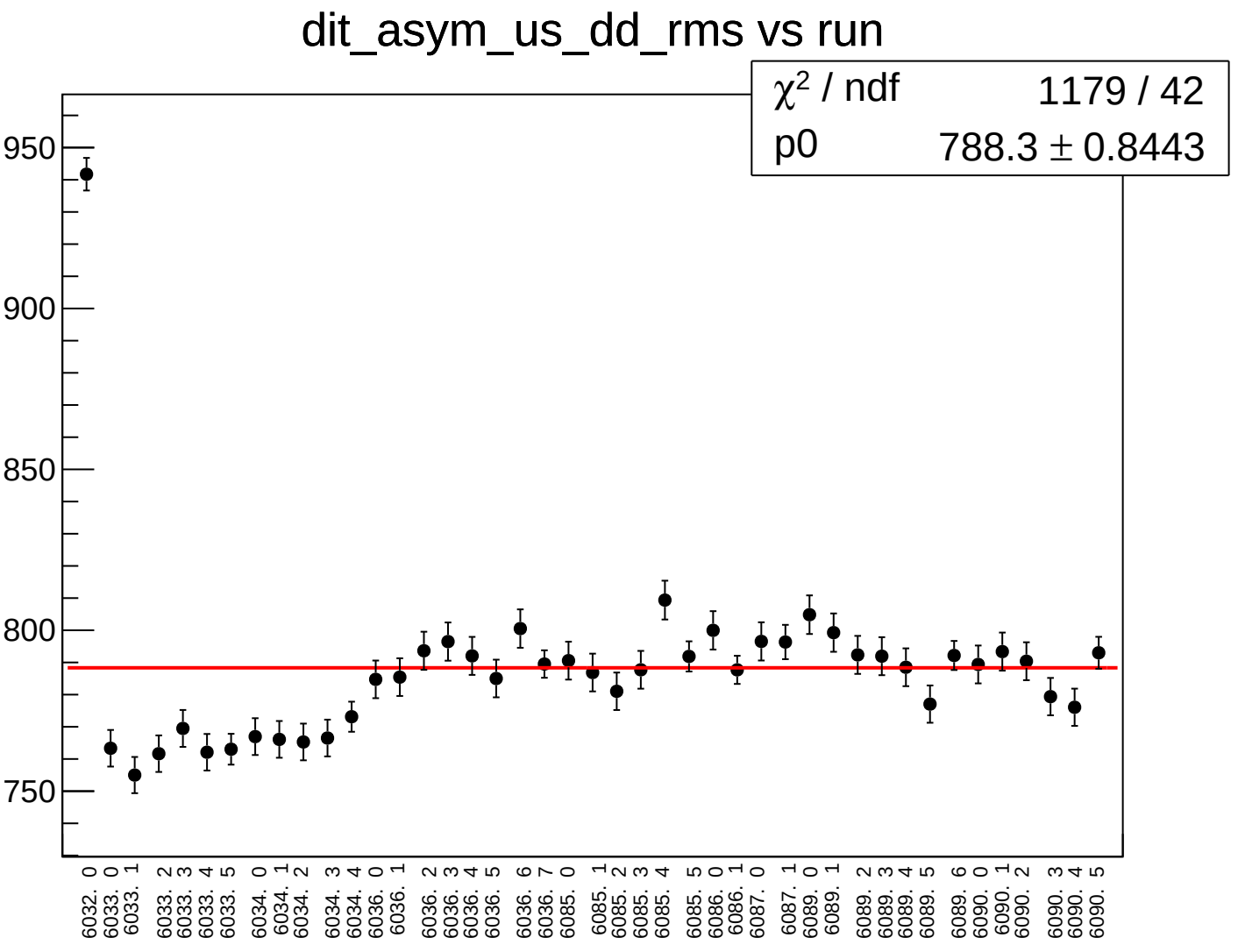
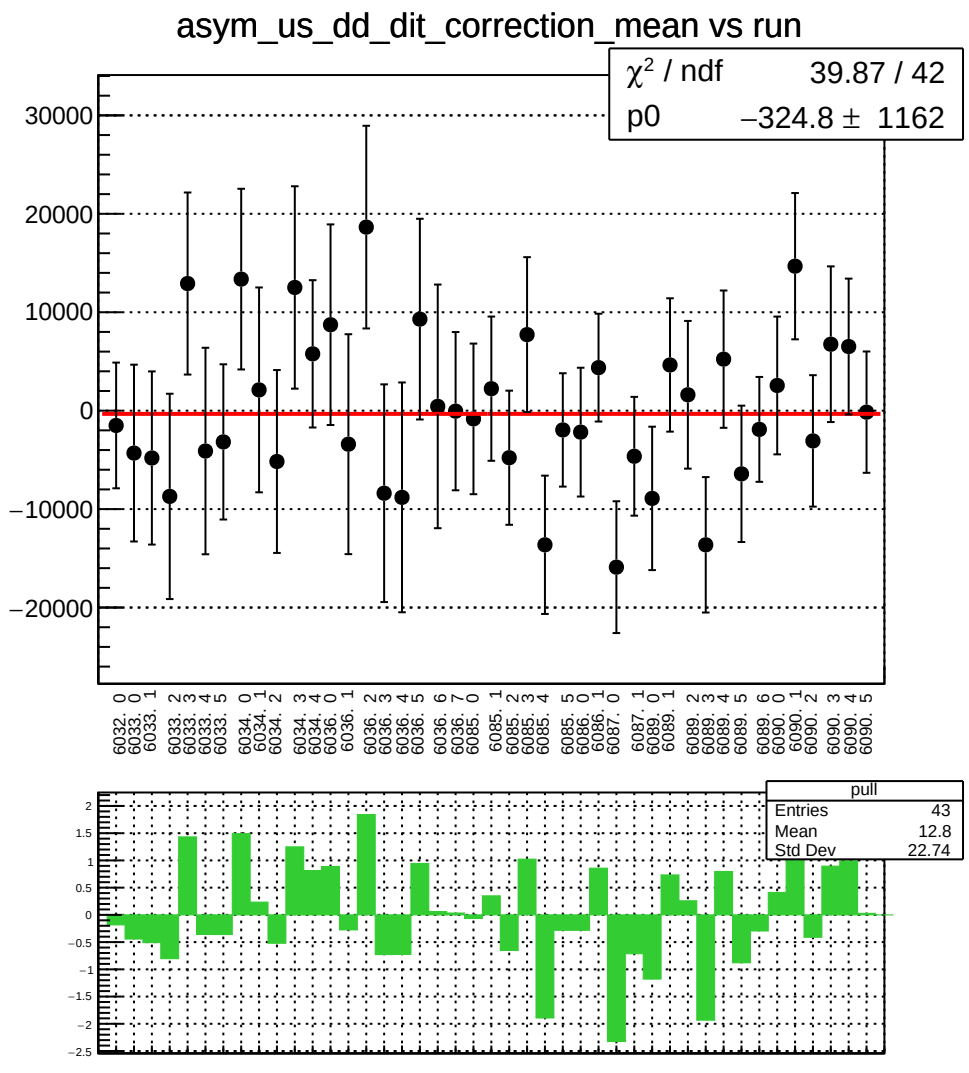
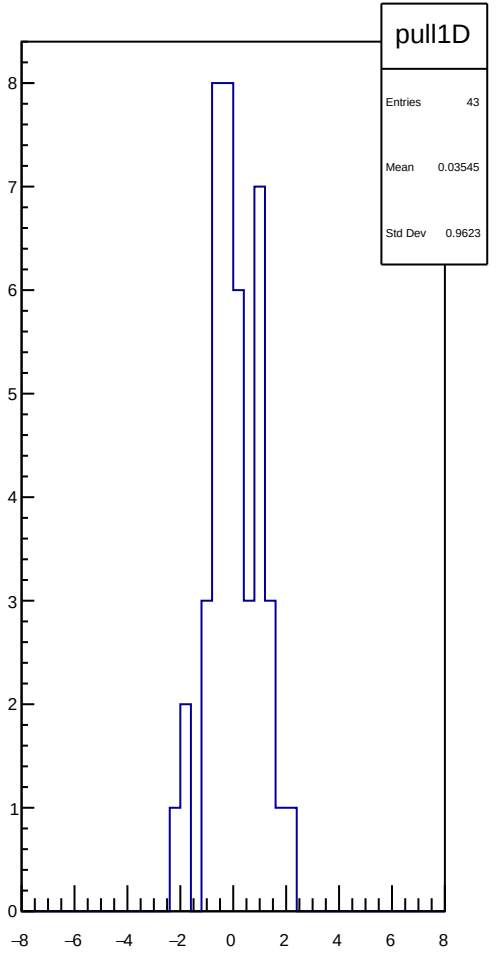
6090. 4
6090. 5

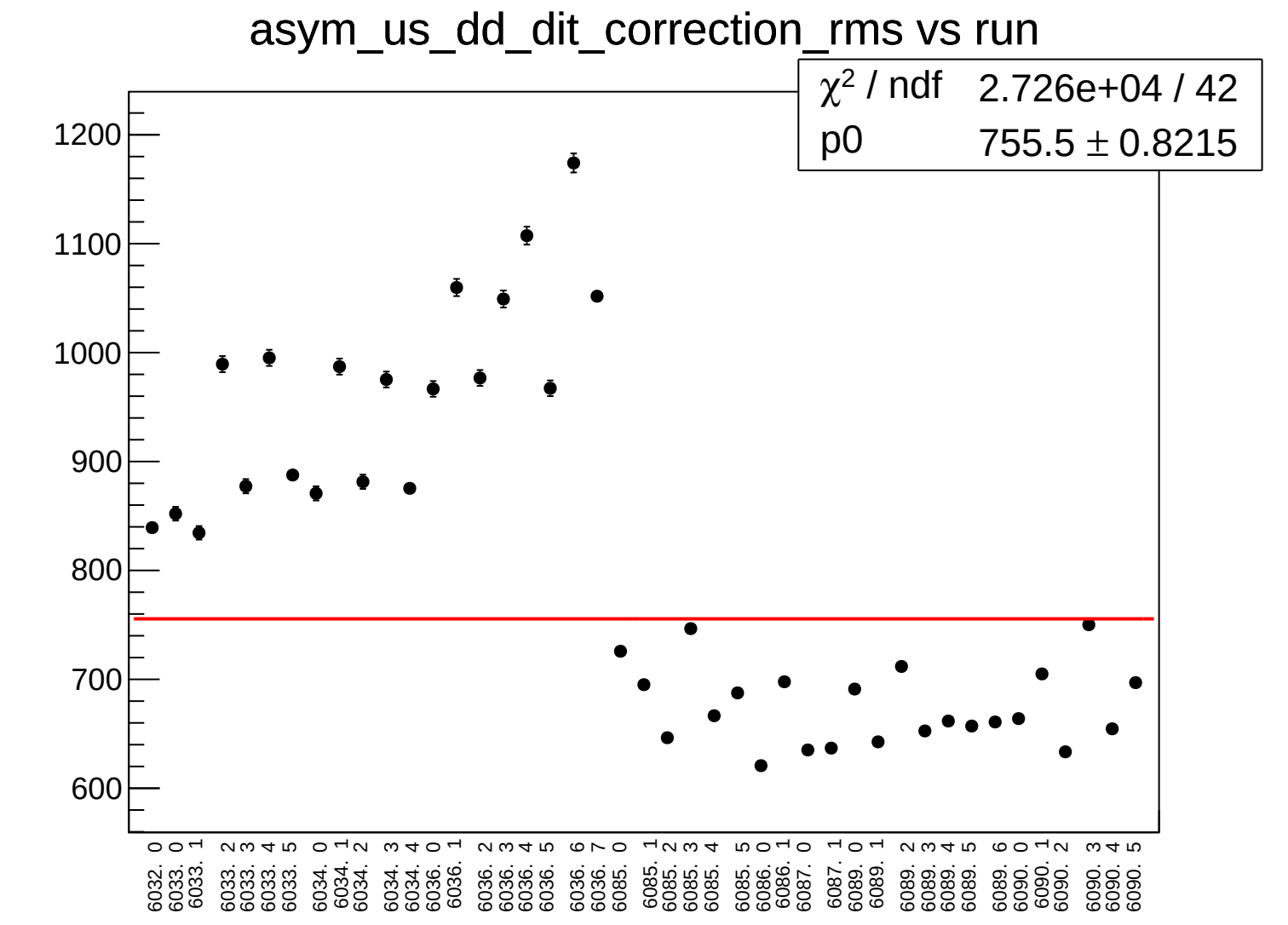

dit_asym_us_dd_mean vs run
χ² / ndf 28.85 / 42
p0 1266 ± 1194
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −565.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

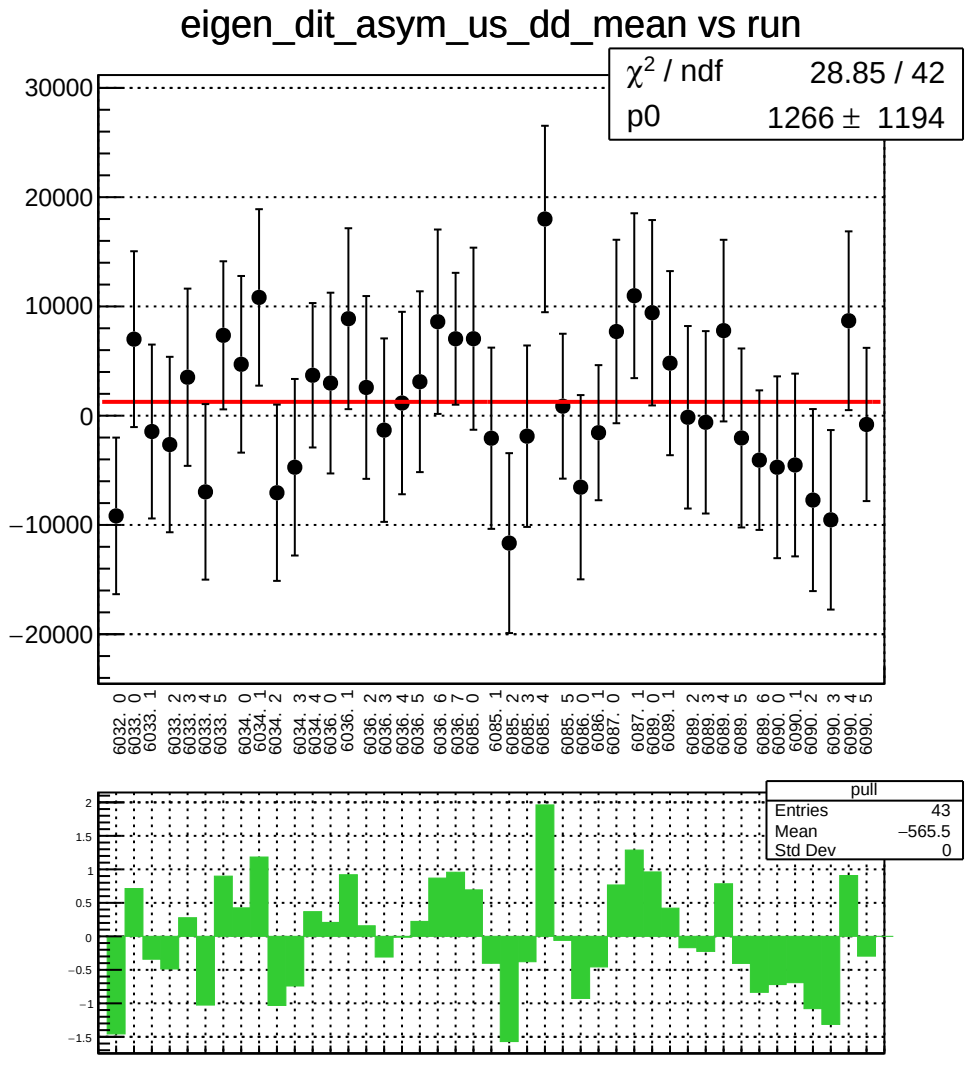

pull1D
Entries 43
Mean 0.001307
Std Dev 0.8191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

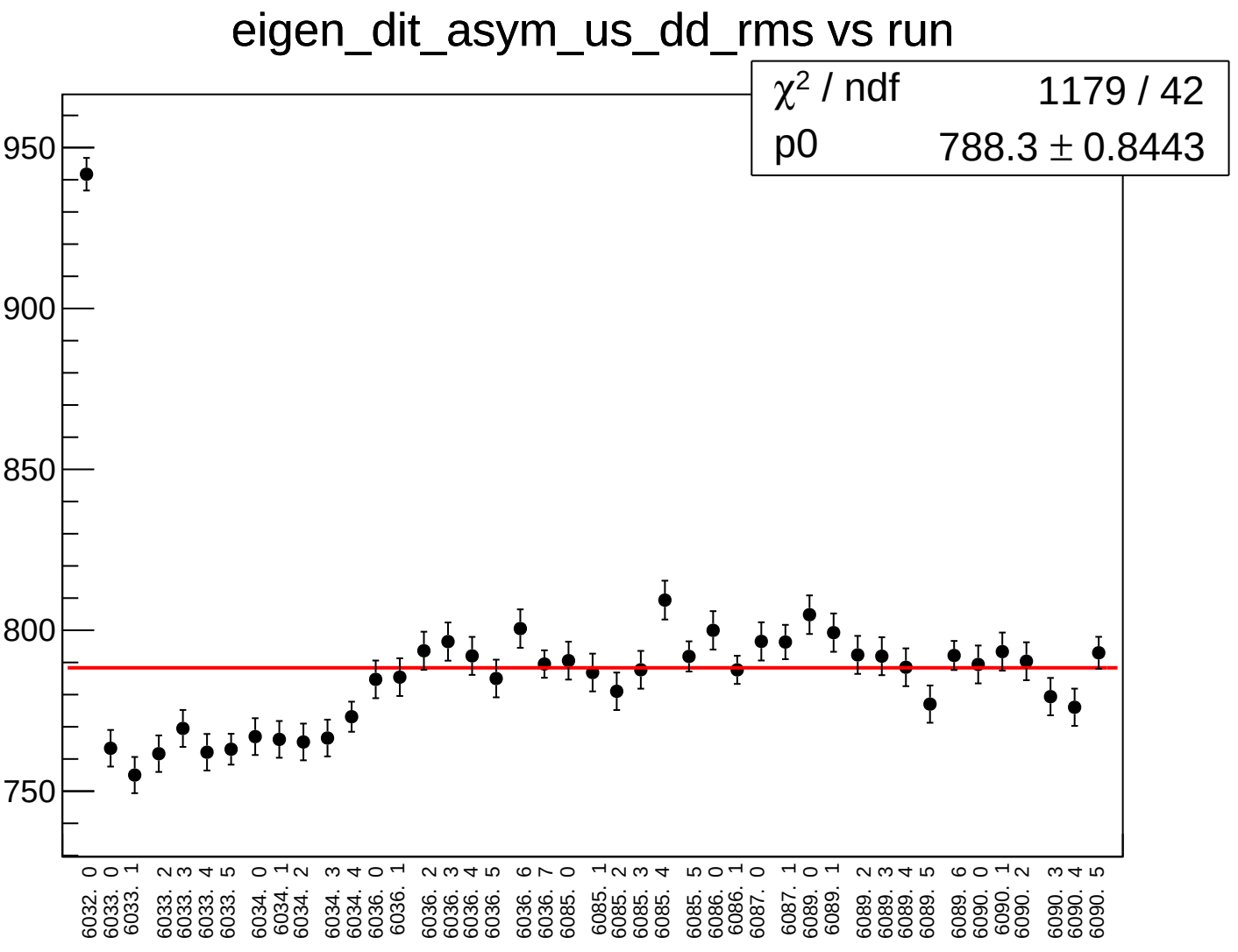

dit_asym_us_dd_rms vs run
χ² / ndf 1179 / 42
p0 788.3 ± 0.8443
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

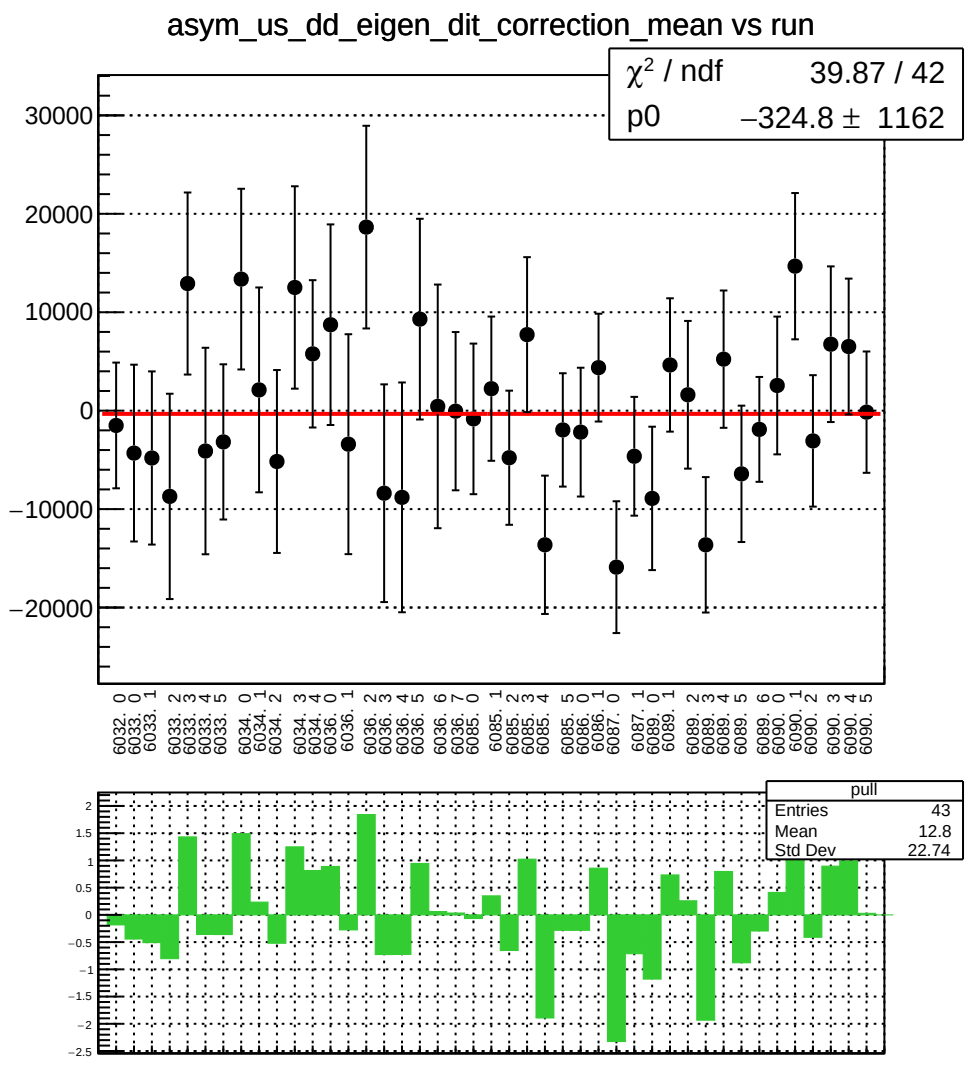

asym_us_dd_dit_correction_mean vs run
χ² / ndf 39.87 / 42
p0 −324.8 ± 1162
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.8
Std Dev 22.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

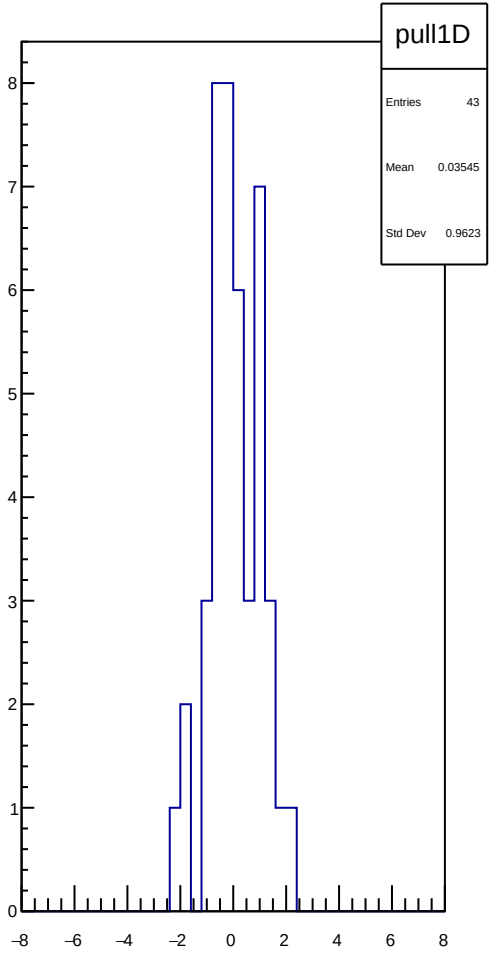

pull1D
Entries 43
Mean 0.03545
Std Dev 0.9623
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

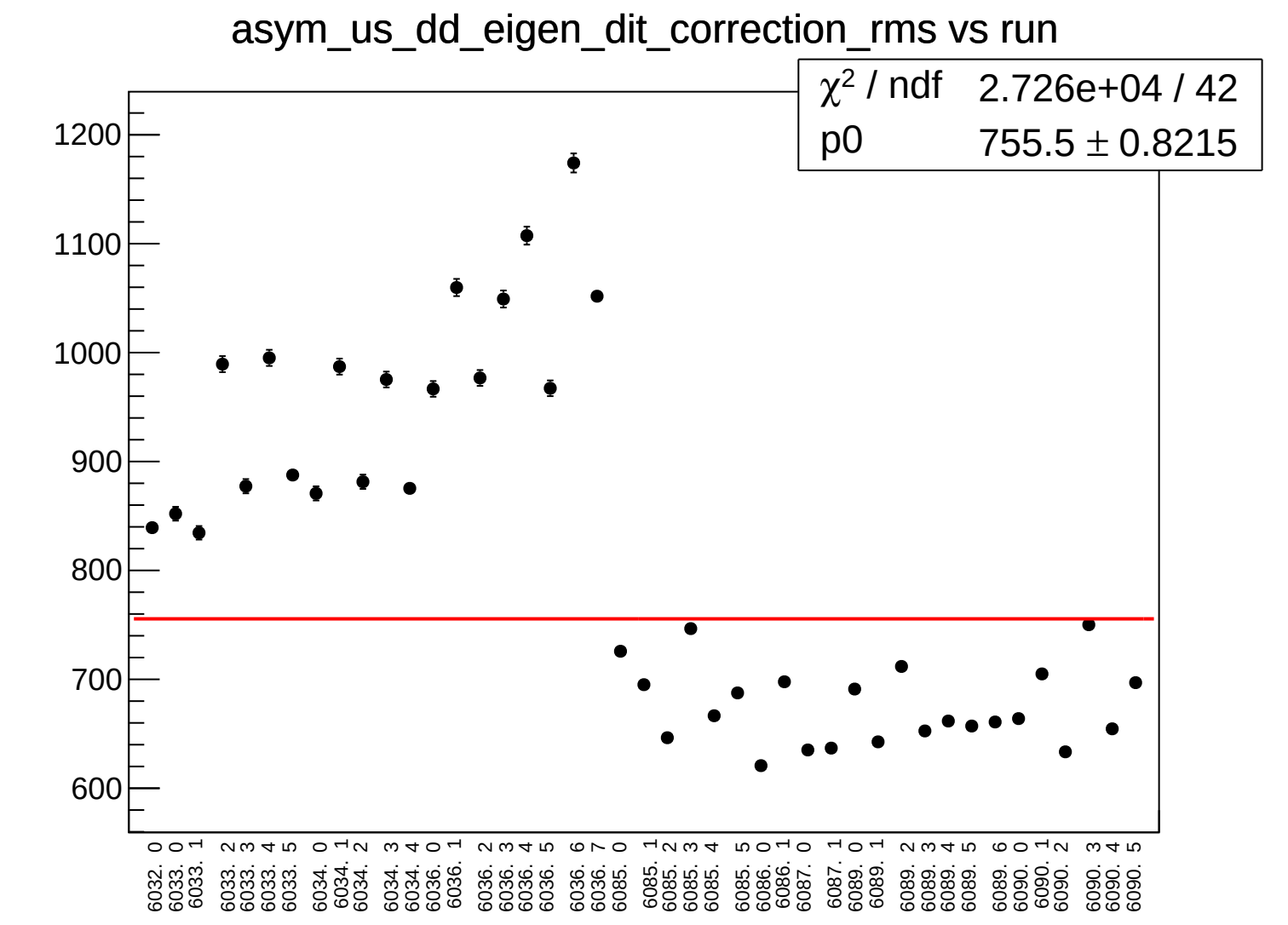

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2.726e+04 / 42
p0 755.5 ± 0.8215
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

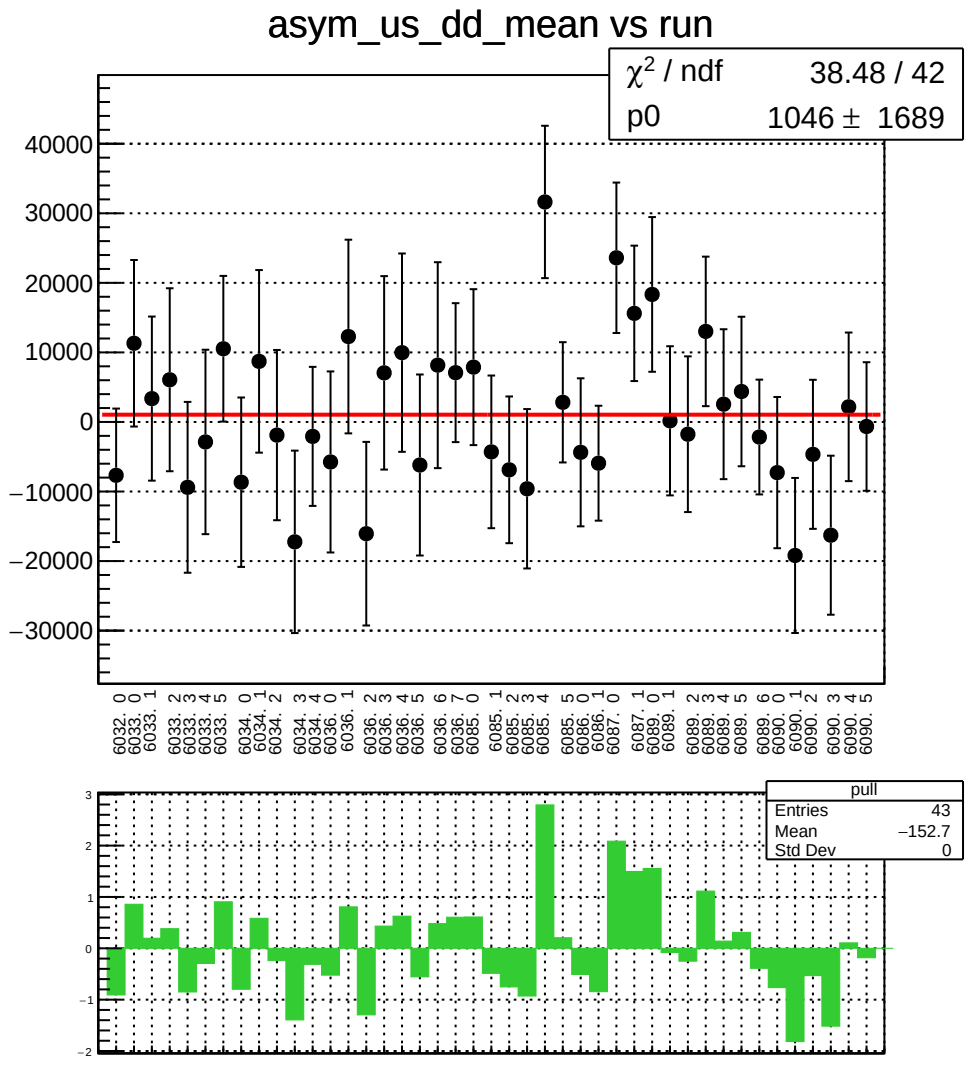

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 28.85 / 42
p0 1266 ± 1194
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −565.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001307
Std Dev 0.8191
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

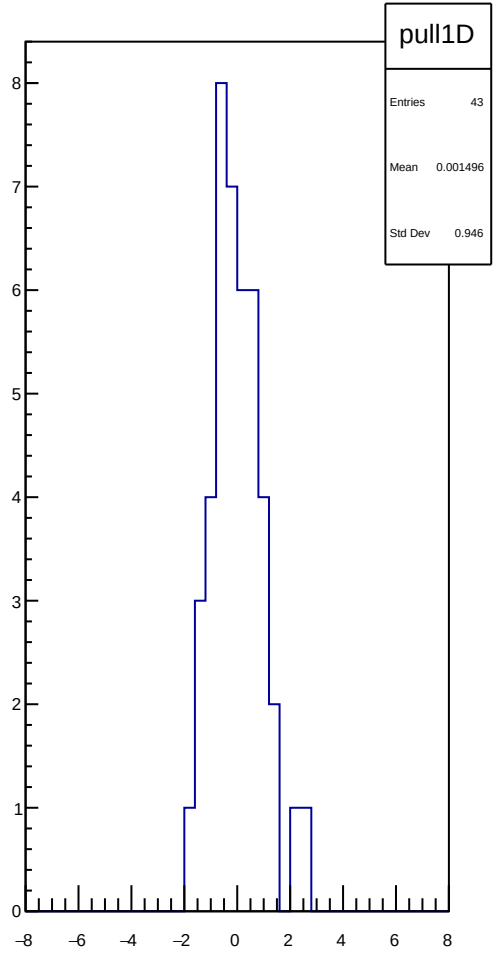

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 1179 / 42
p0 788.3 ± 0.8443
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

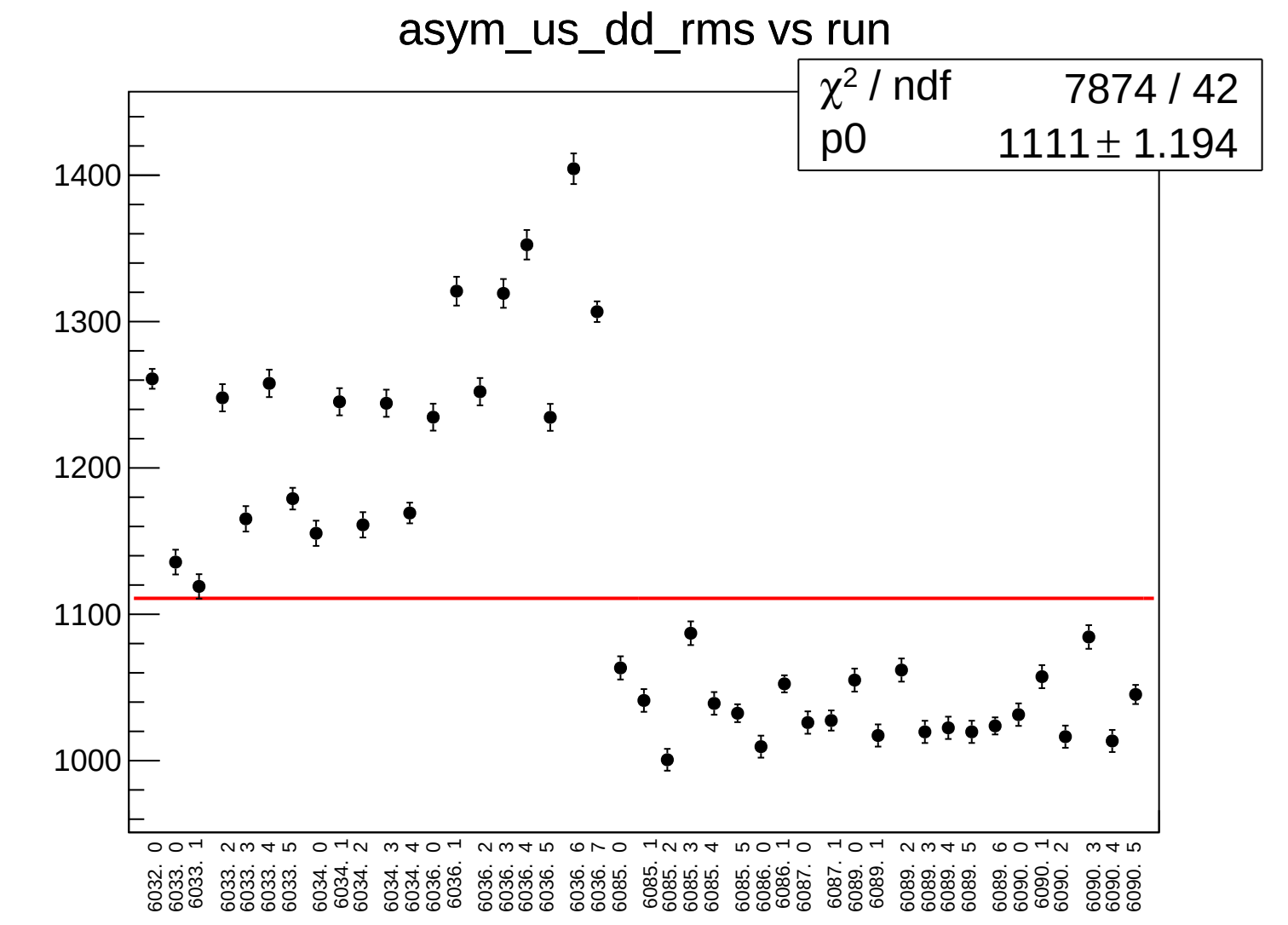

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.87 / 42
p0 −324.8 ± 1162
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.8
Std Dev 22.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

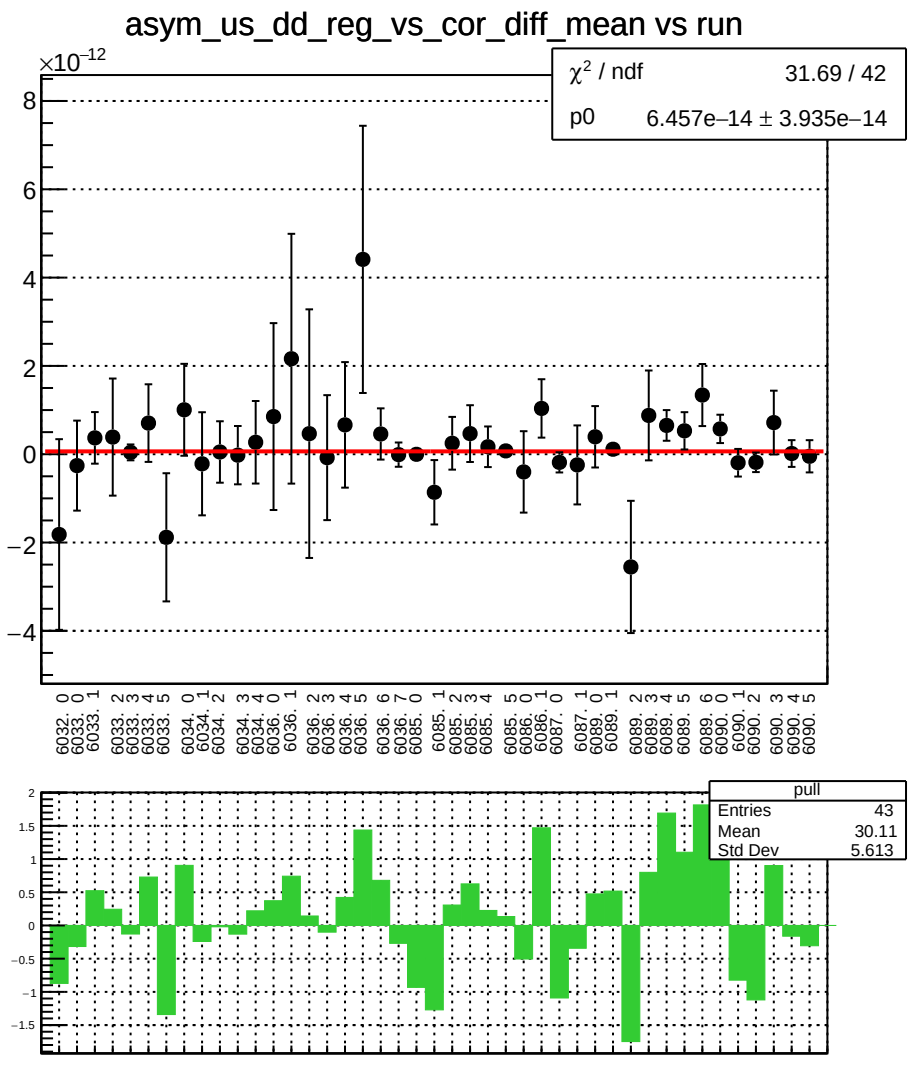

pull1D
Entries 43
Mean 0.03545
Std Dev 0.9623
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

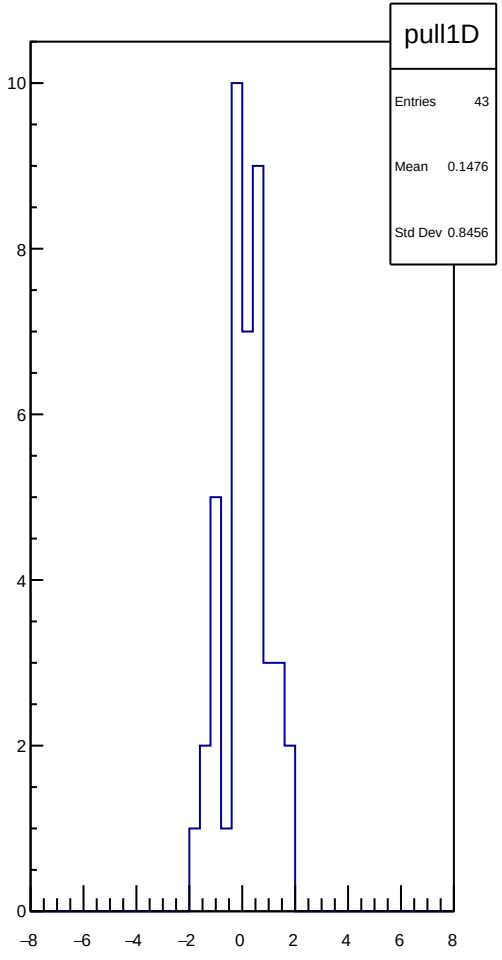

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.726e+04 / 42
p0 755.5 ± 0.8215
1200
1100
1000
900
800
700
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

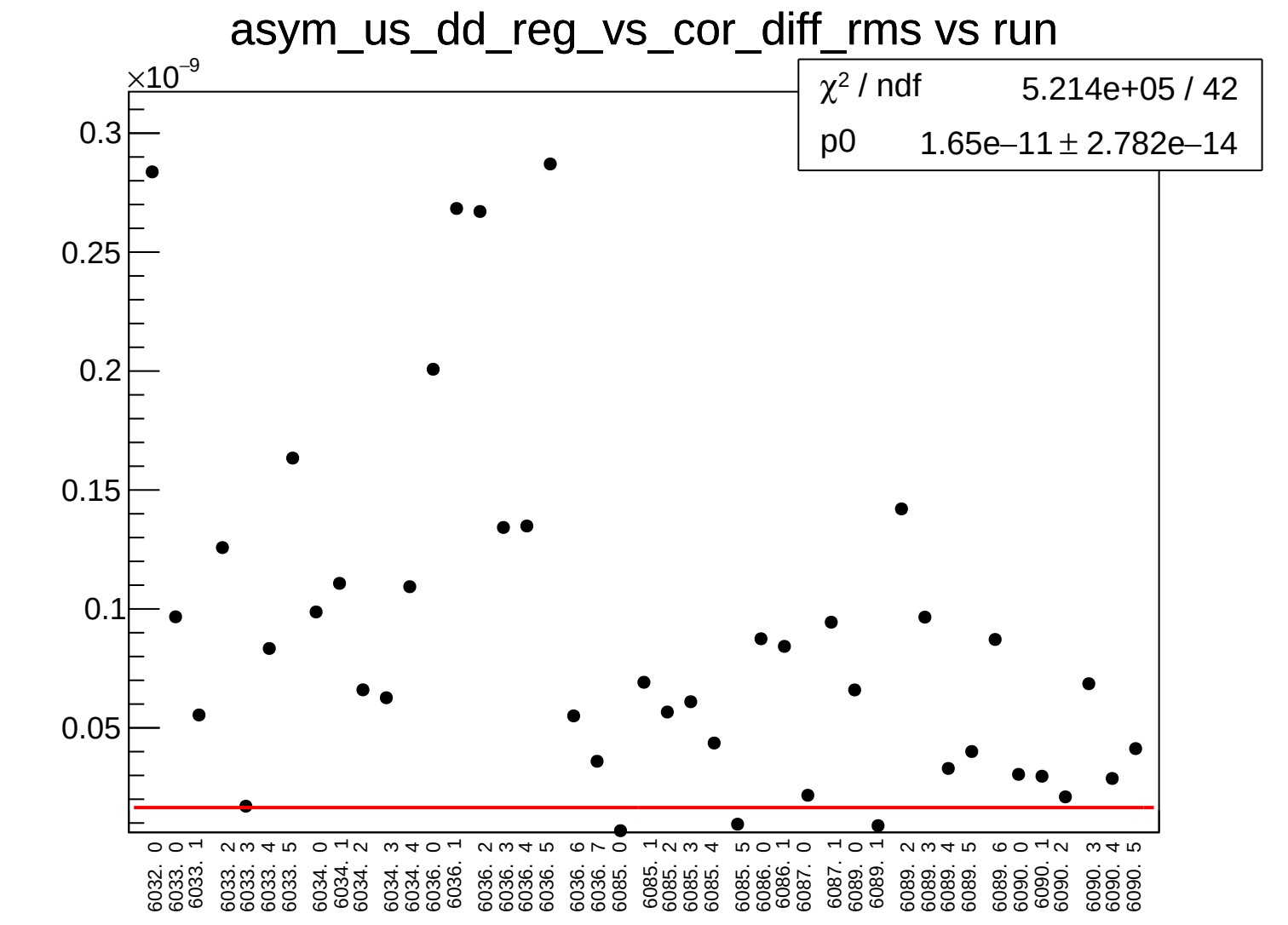

asym_us_dd_mean vs run
χ² / ndf 38.48 / 42
p0 1046 ± 1689
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −152.7
Std Dev 0
3
2
1
0
−1
−2

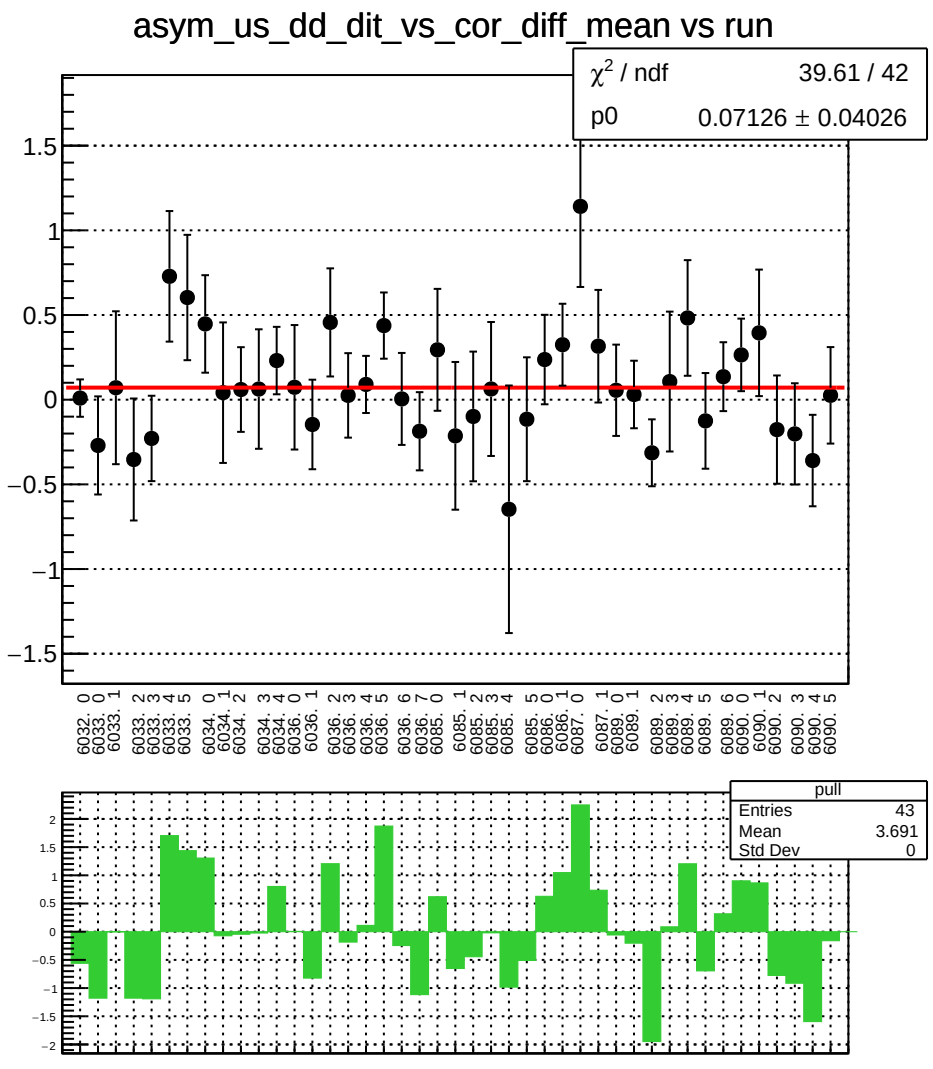

pull1D
Entries 43
Mean 0.001496
Std Dev 0.946
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

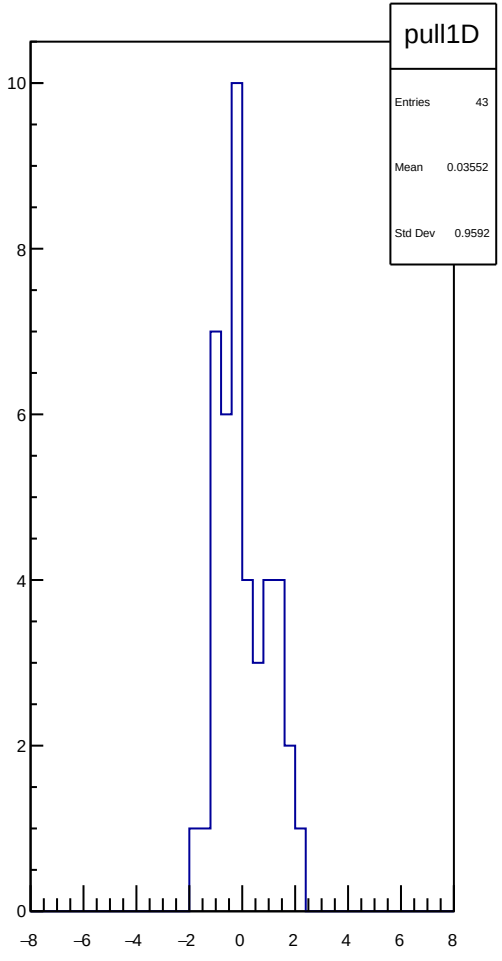

asym_us_dd_rms vs run
χ² / ndf 7874 / 42
p0 1111 ± 1.194
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

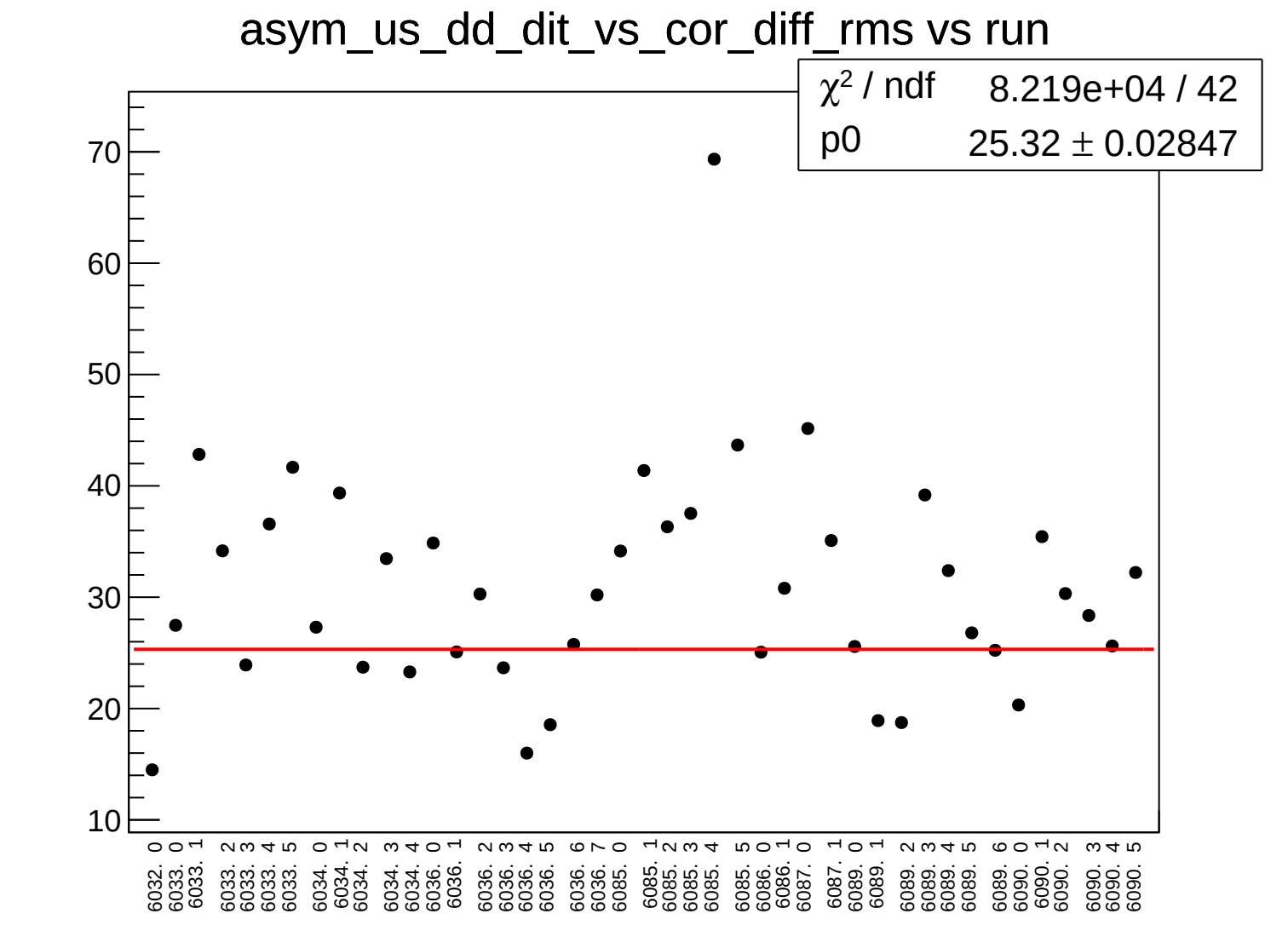

asym_us_dd_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 31.69 / 42
p0 6.457e−14 ± 3.935e−14
pull
Entries 43
Mean 30.11
Std Dev 5.613

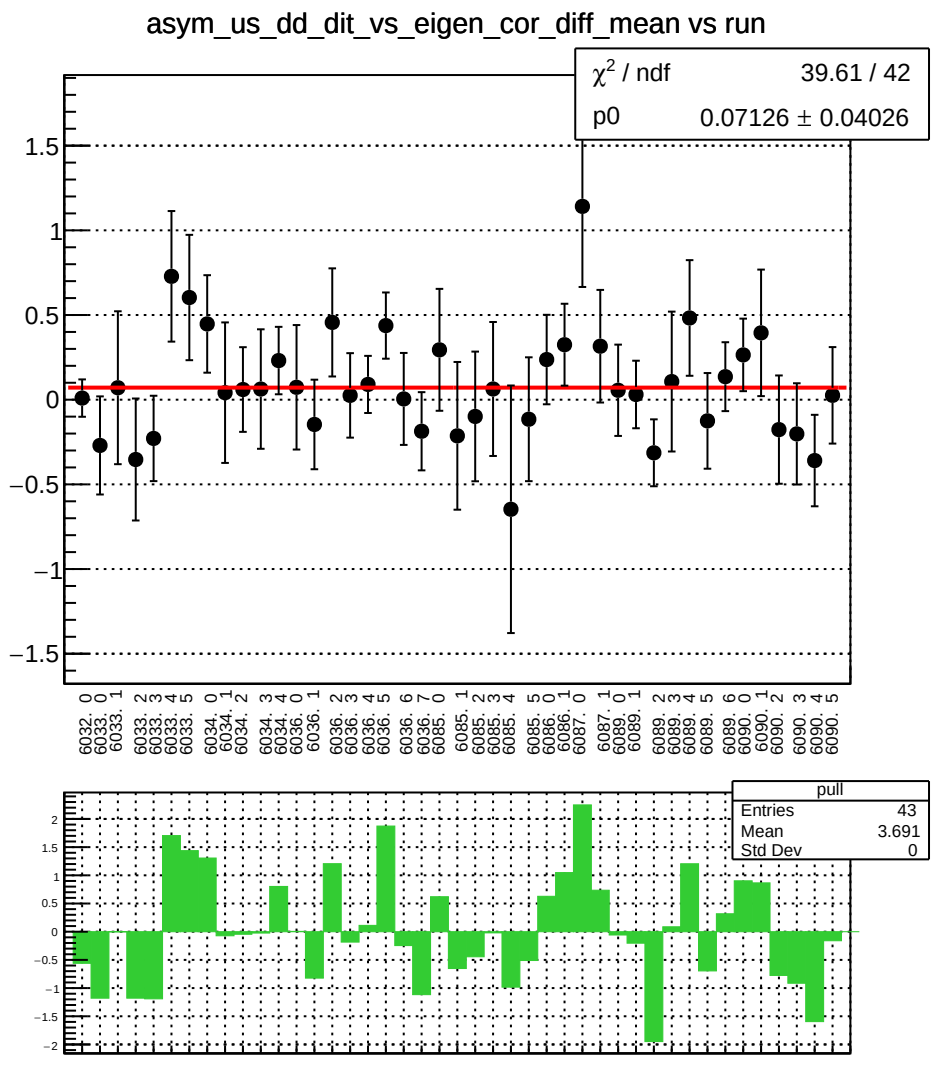

pull1D
Entries 43
Mean 0.1476
Std Dev 0.8456

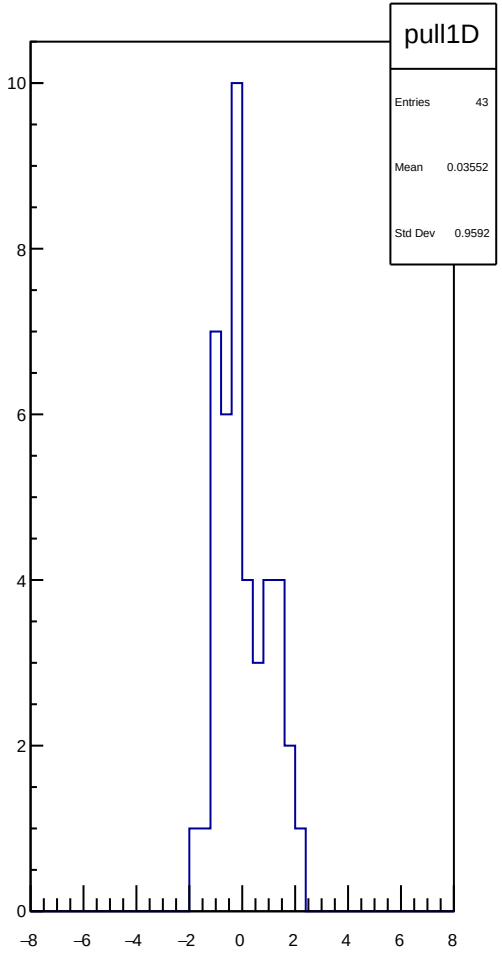

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.214e+05 / 42
p0 1.65e−11 ± 2.782e−14
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

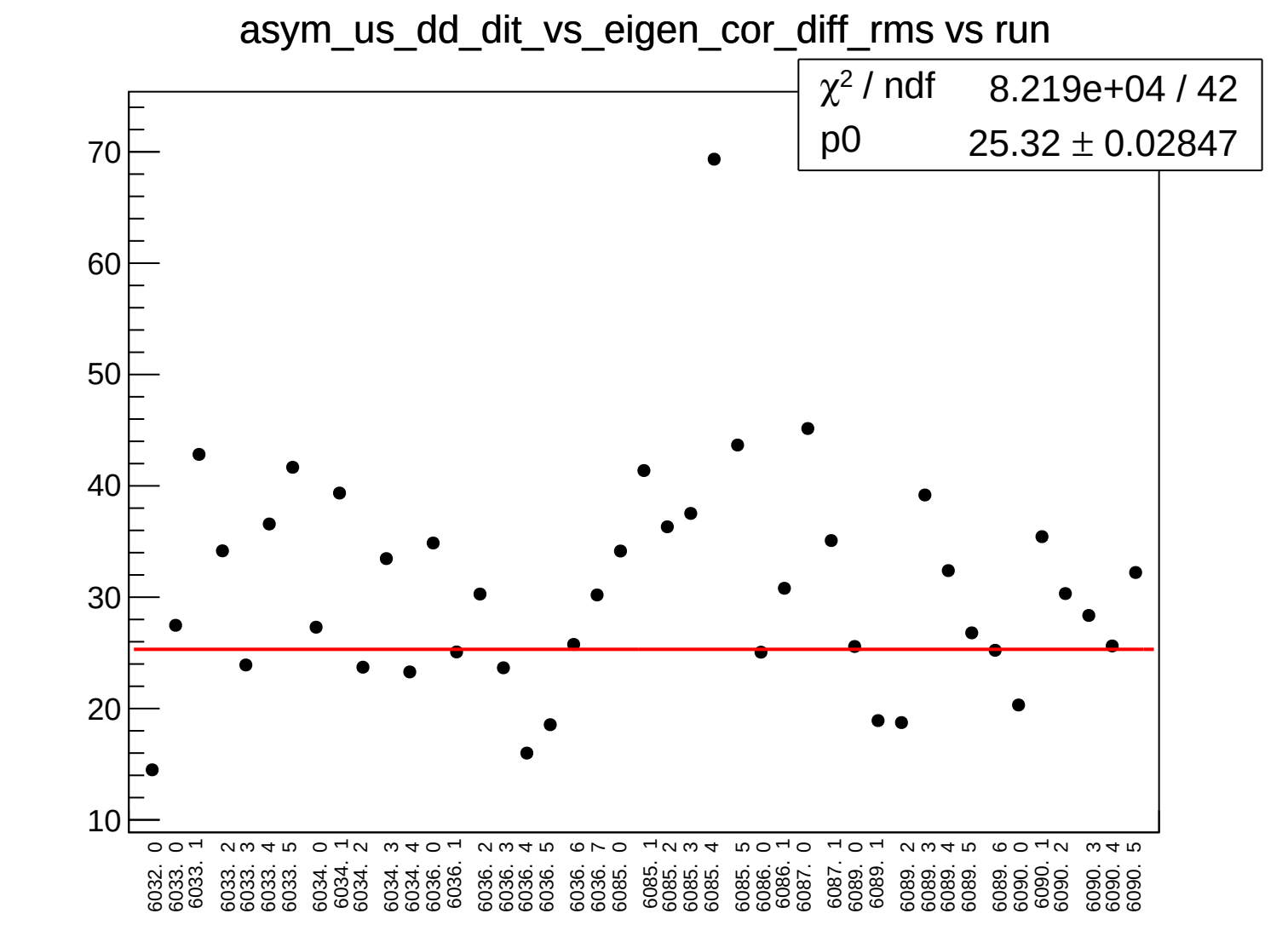

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.61 / 42
p0 0.07126 ± 0.04026
pull
Entries 43
Mean 3.691
Std Dev 0

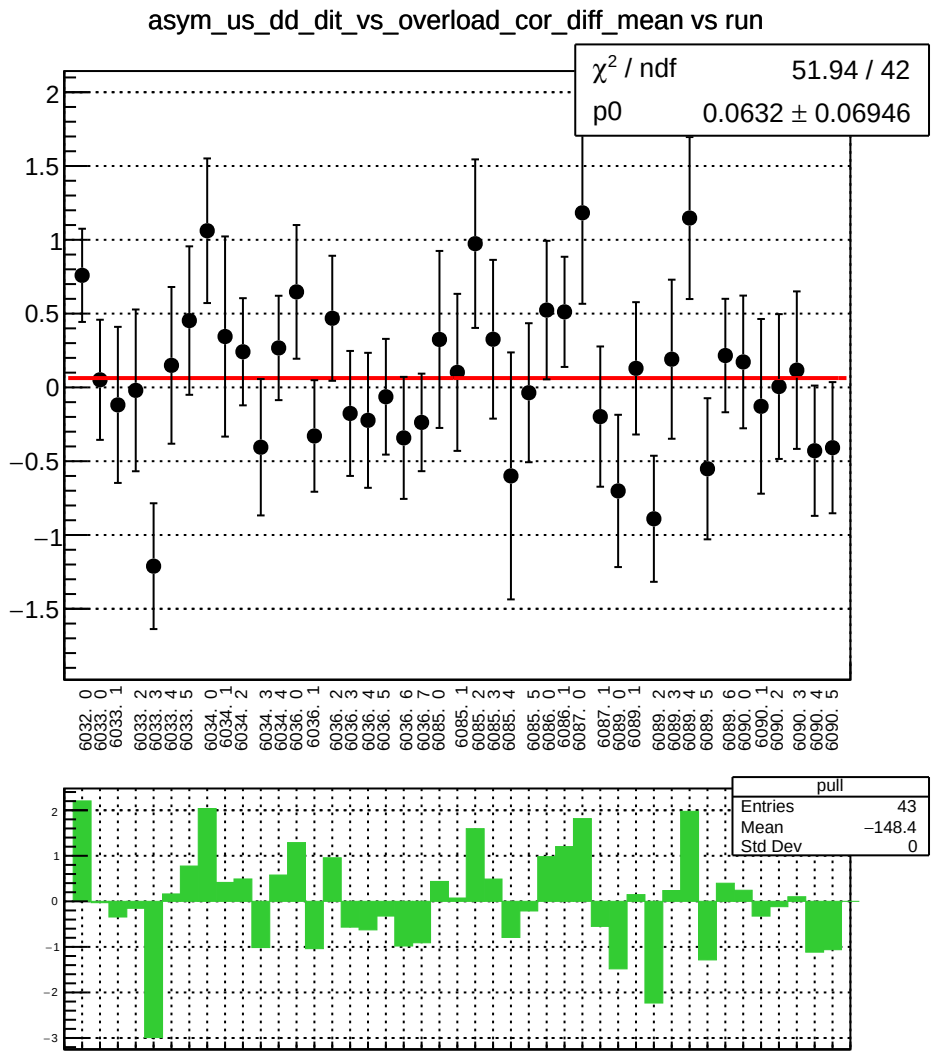

pull1D
Entries 43
Mean 0.03552
Std Dev 0.9592

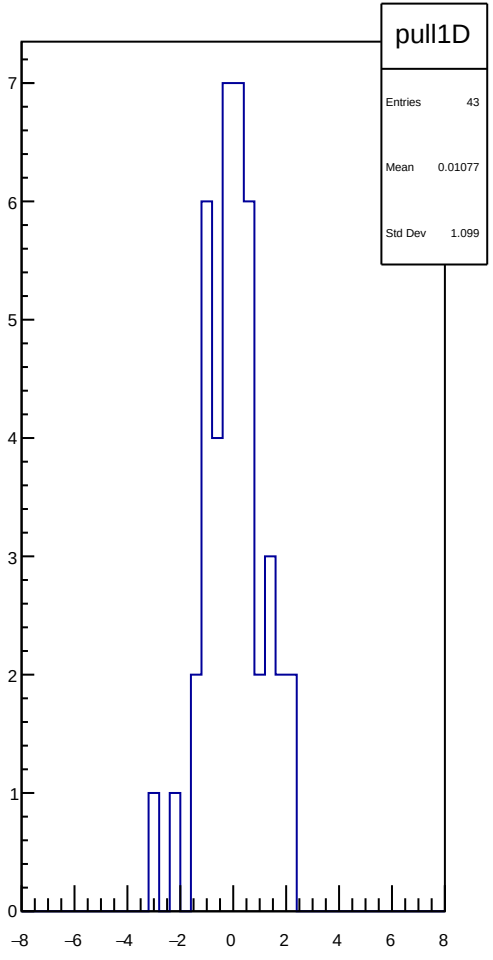

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.219e+04 / 42
p0 25.32 ± 0.02847
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

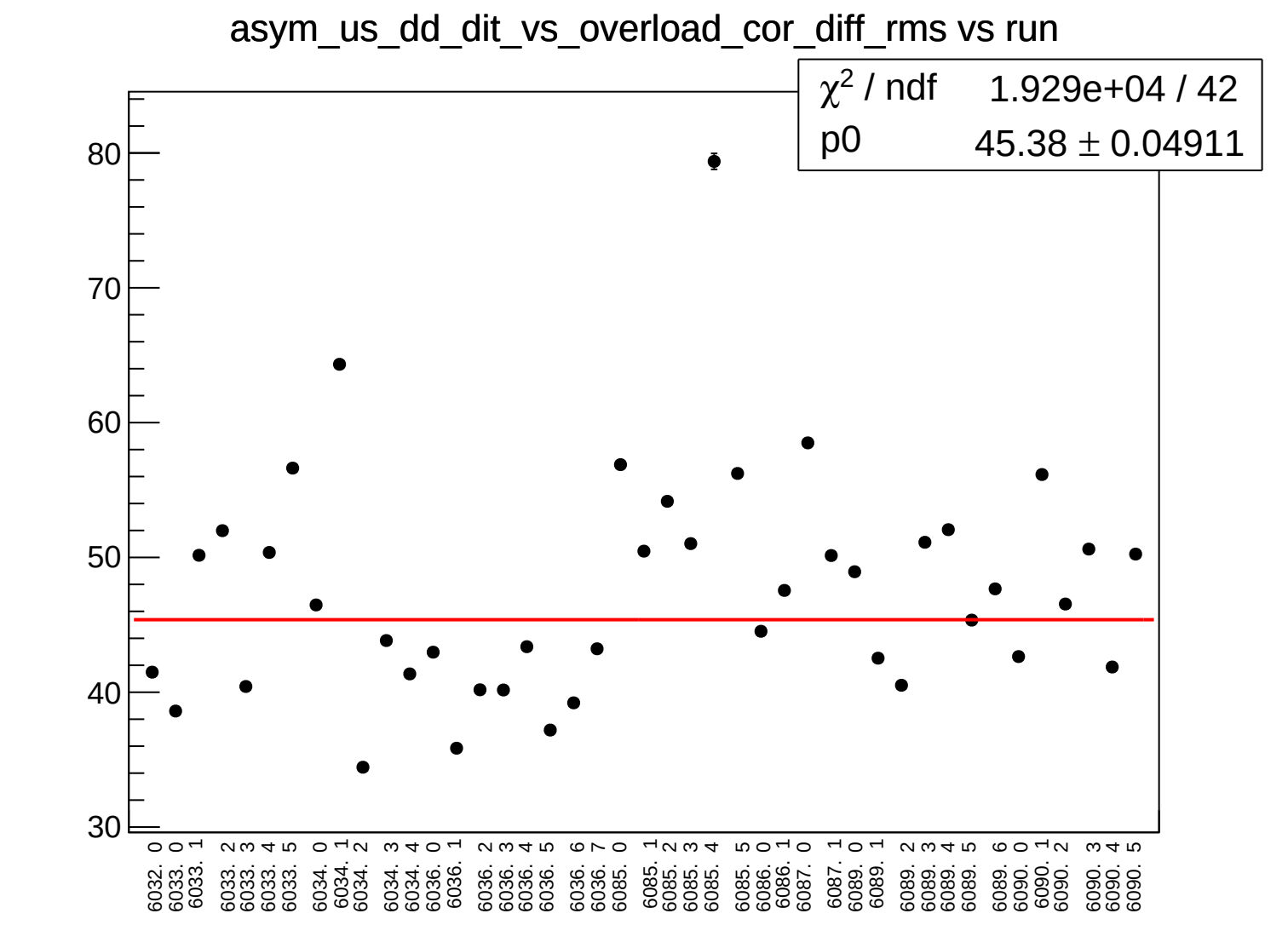

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.61 / 42
p0 0.07126 ± 0.04026
pull
Entries 43
Mean 3.691
Std Dev 0

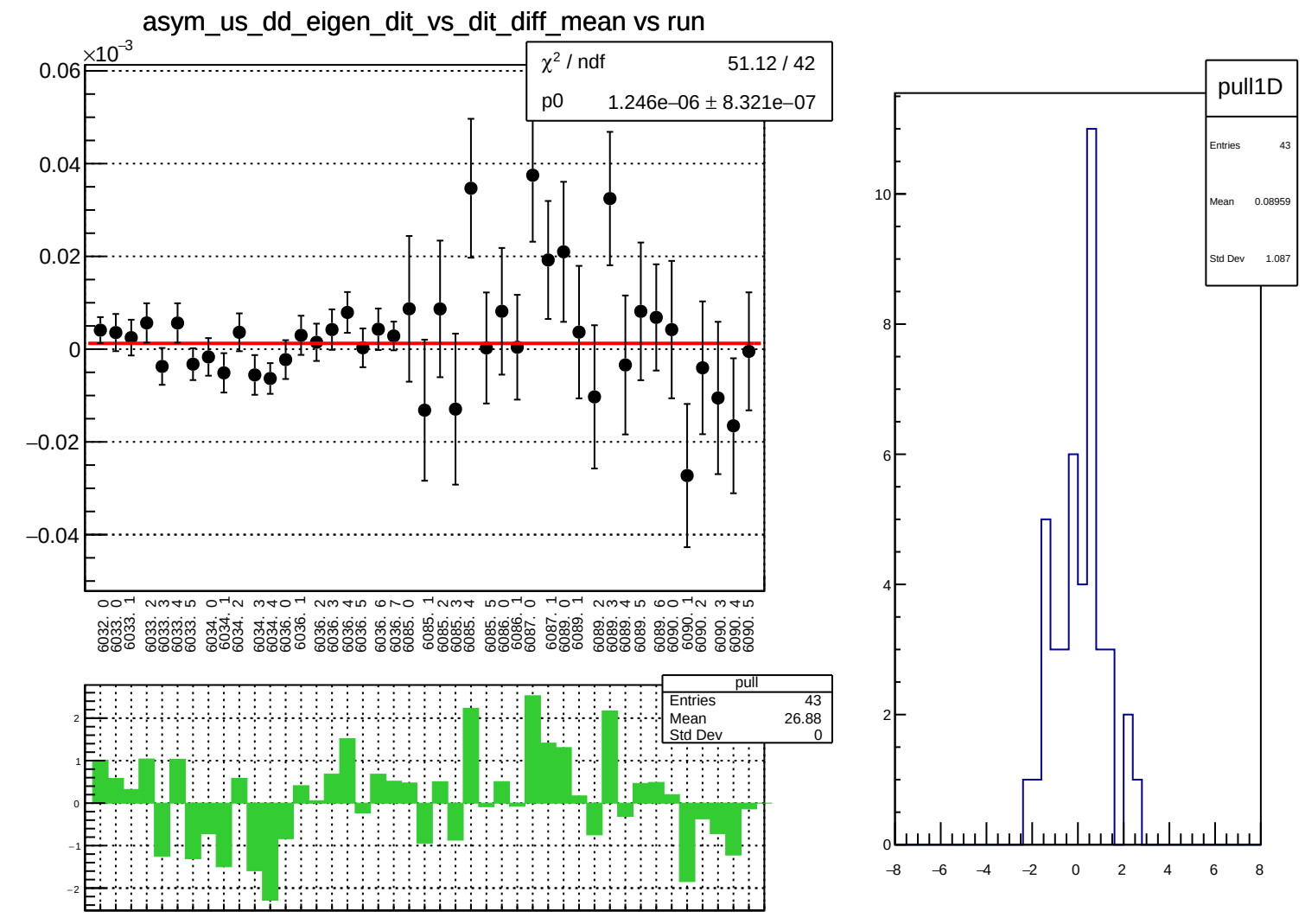

pull1D
Entries 43
Mean 0.03552
Std Dev 0.9592

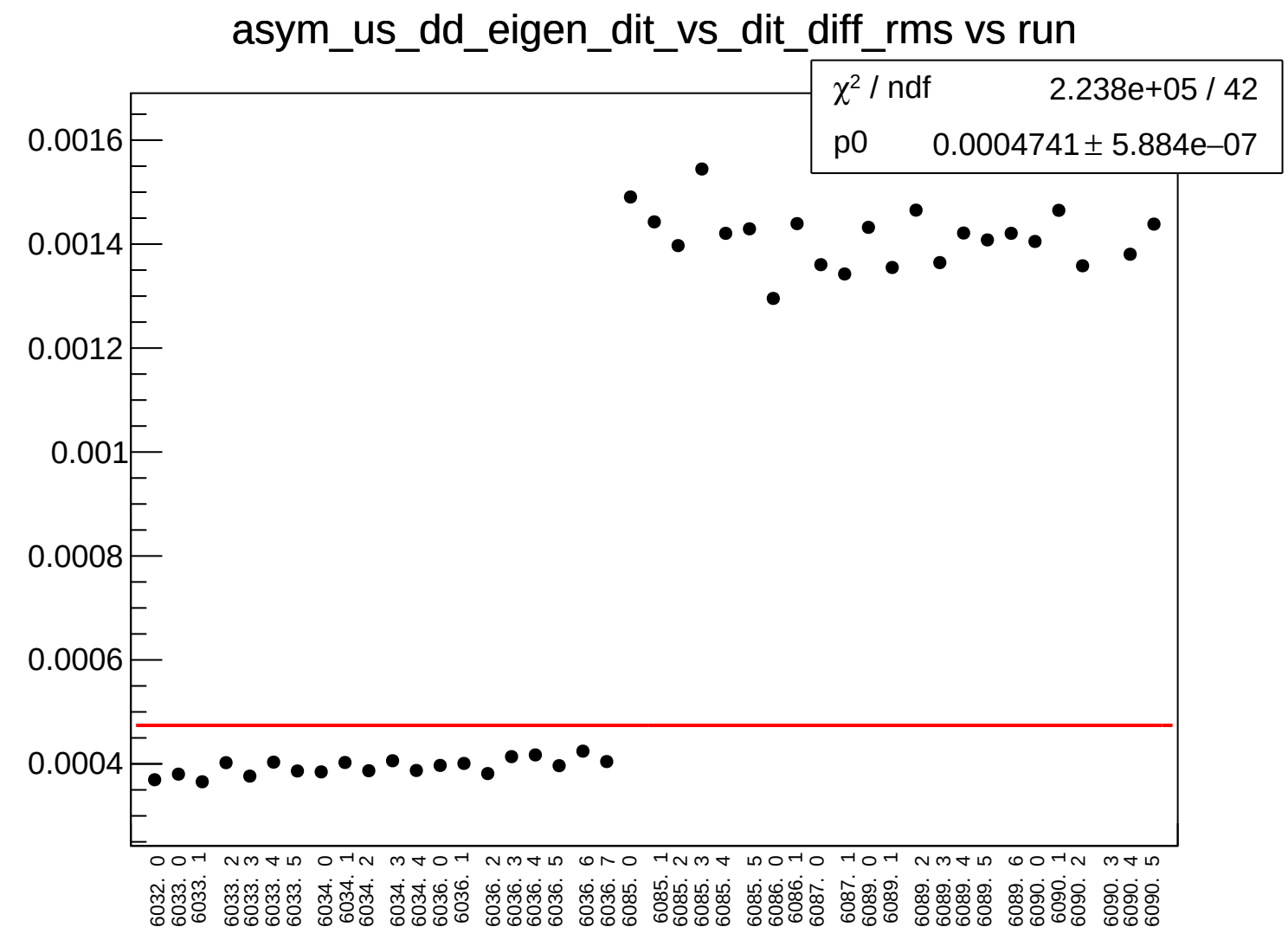

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.219e+04 / 42
p0 25.32 ± 0.02847
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

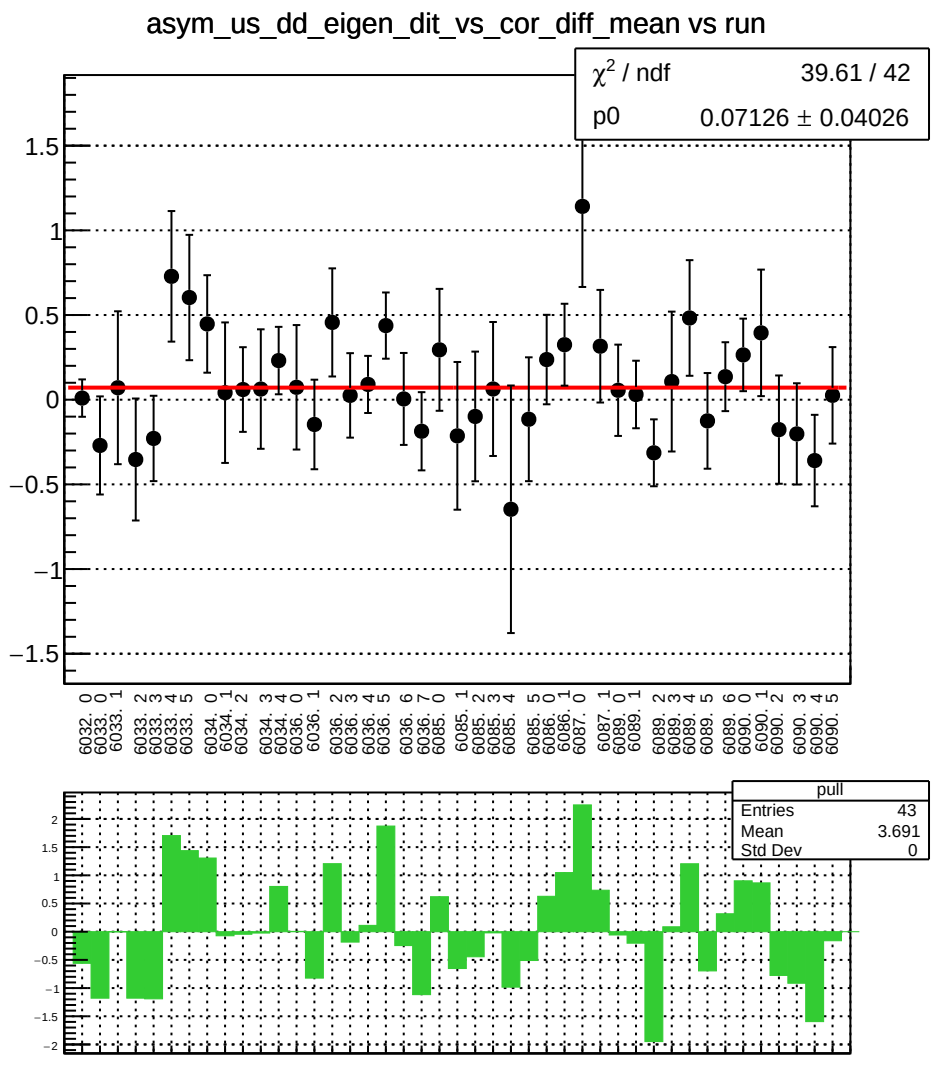

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 51.94 / 42
p0 0.0632 ± 0.06946
pull
Entries 43
Mean −148.4
Std Dev 0

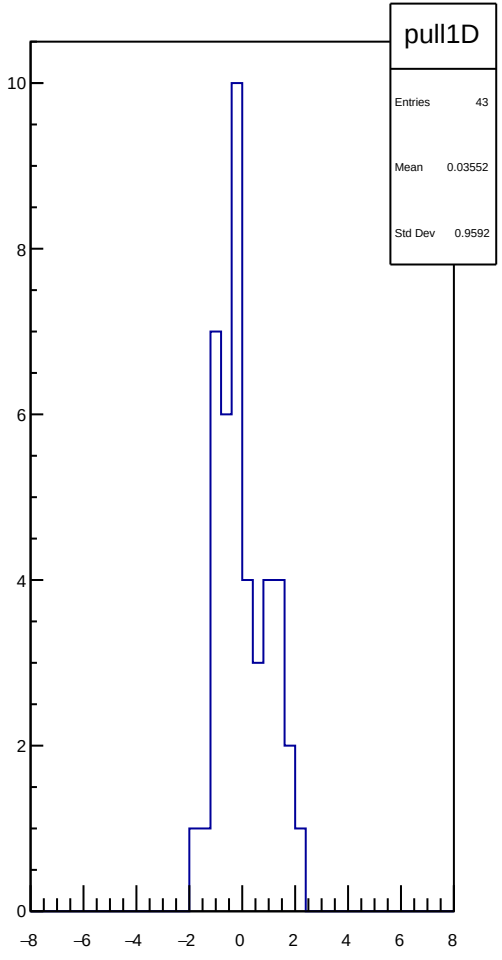

pull1D
Entries 43
Mean 0.01077
Std Dev 1.099

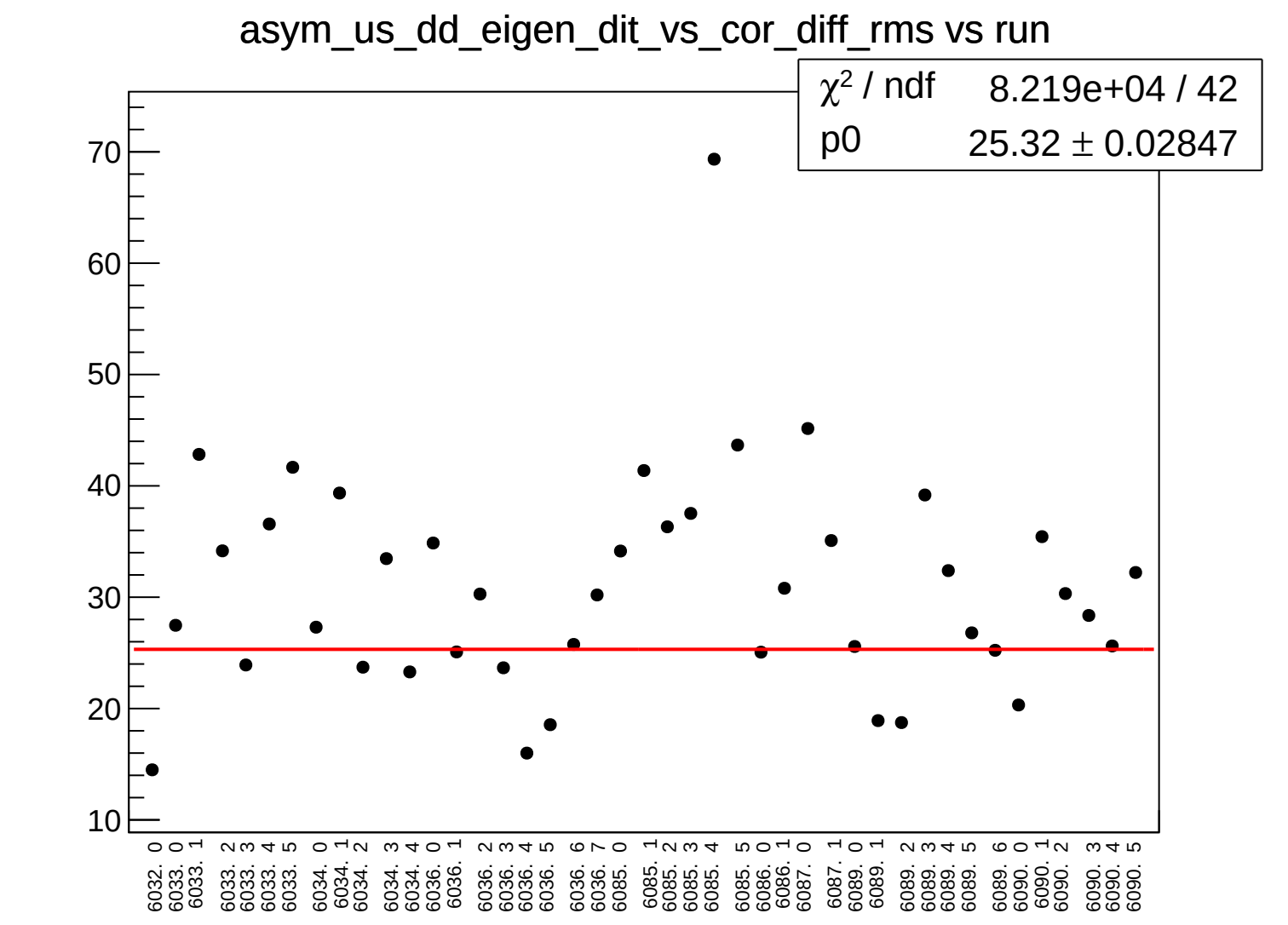

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.929e+04 / 42
p0 45.38 ± 0.04911
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

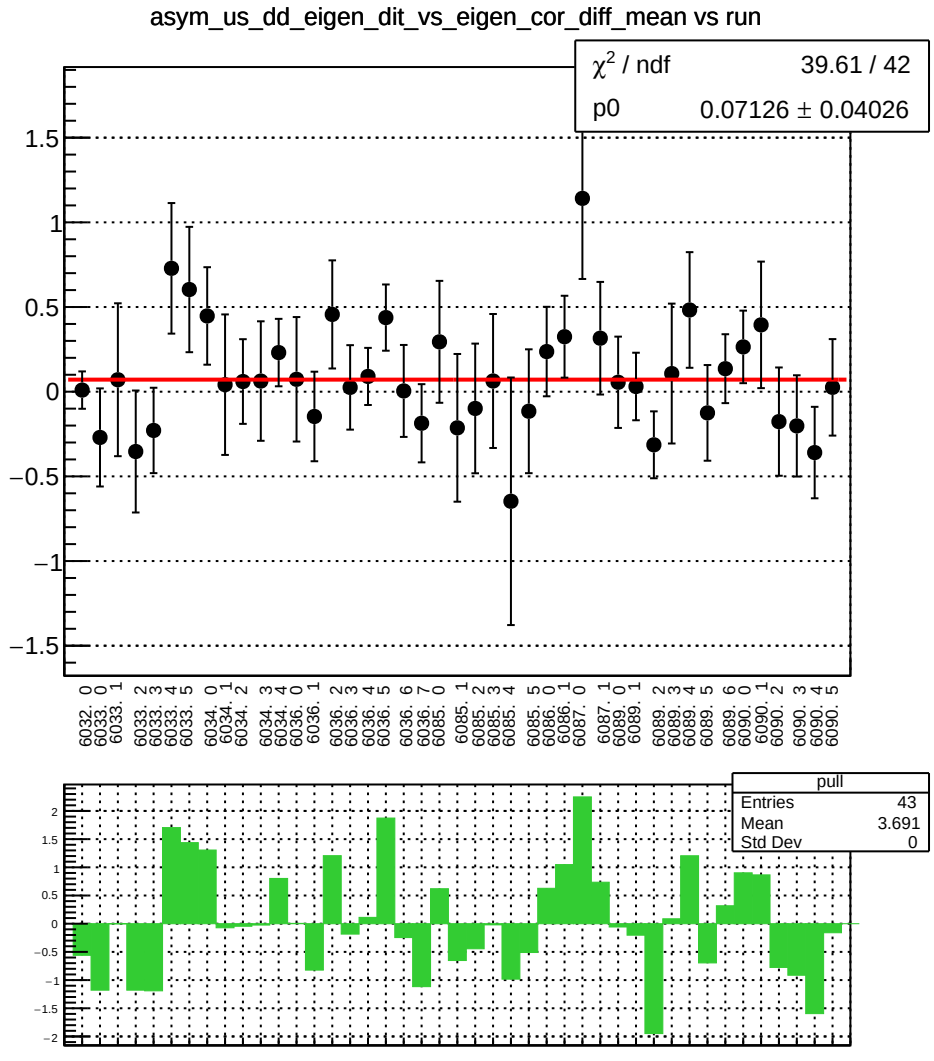

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.12 / 42
p0 1.246e−06 ± 8.321e−07
0.06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.08959
Std Dev 1.087
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

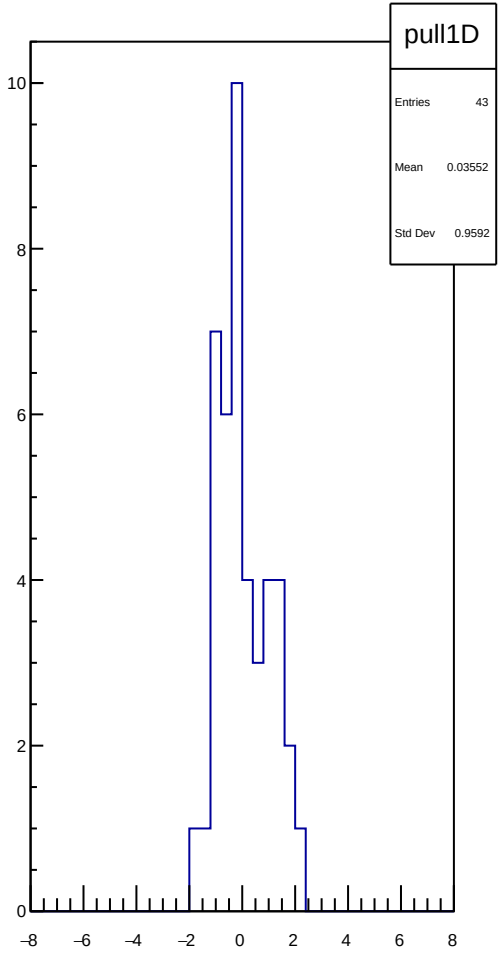

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.238e+05 / 42
p0 0.0004741 ± 5.884e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

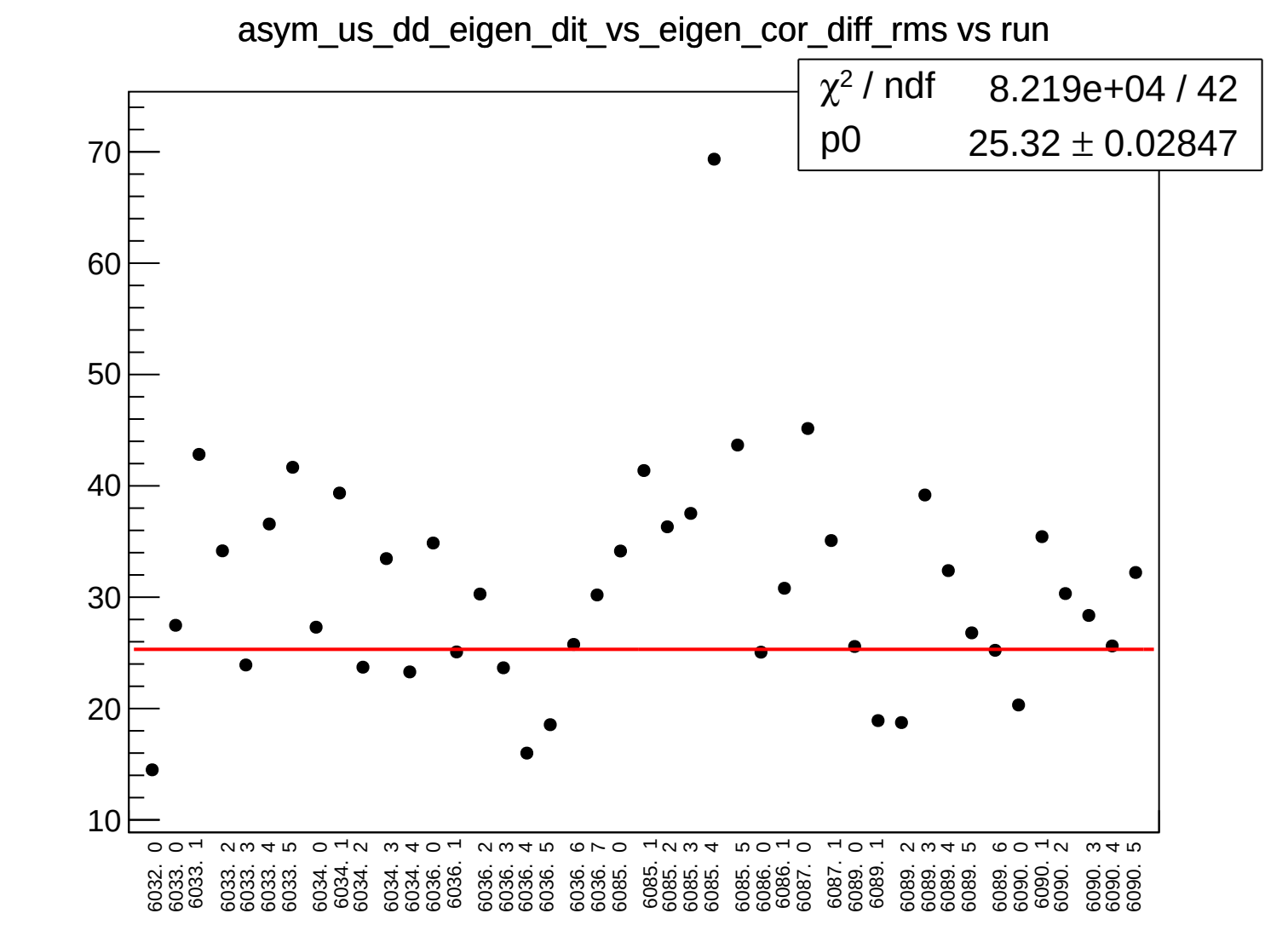

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.61 / 42
p0 0.07126 ± 0.04026
pull
Entries 43
Mean 3.691
Std Dev 0

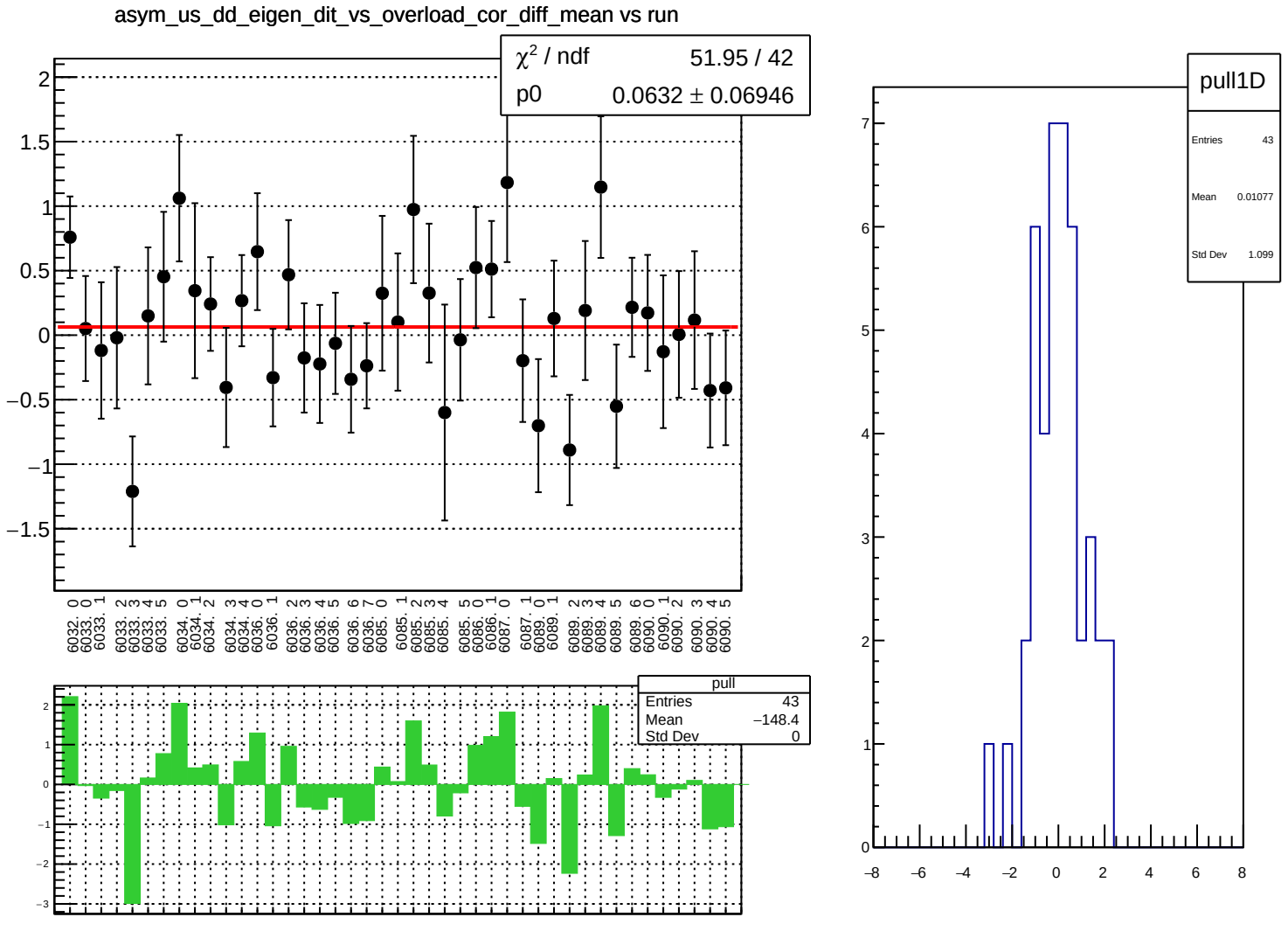

pull1D
Entries 43
Mean 0.03552
Std Dev 0.9592

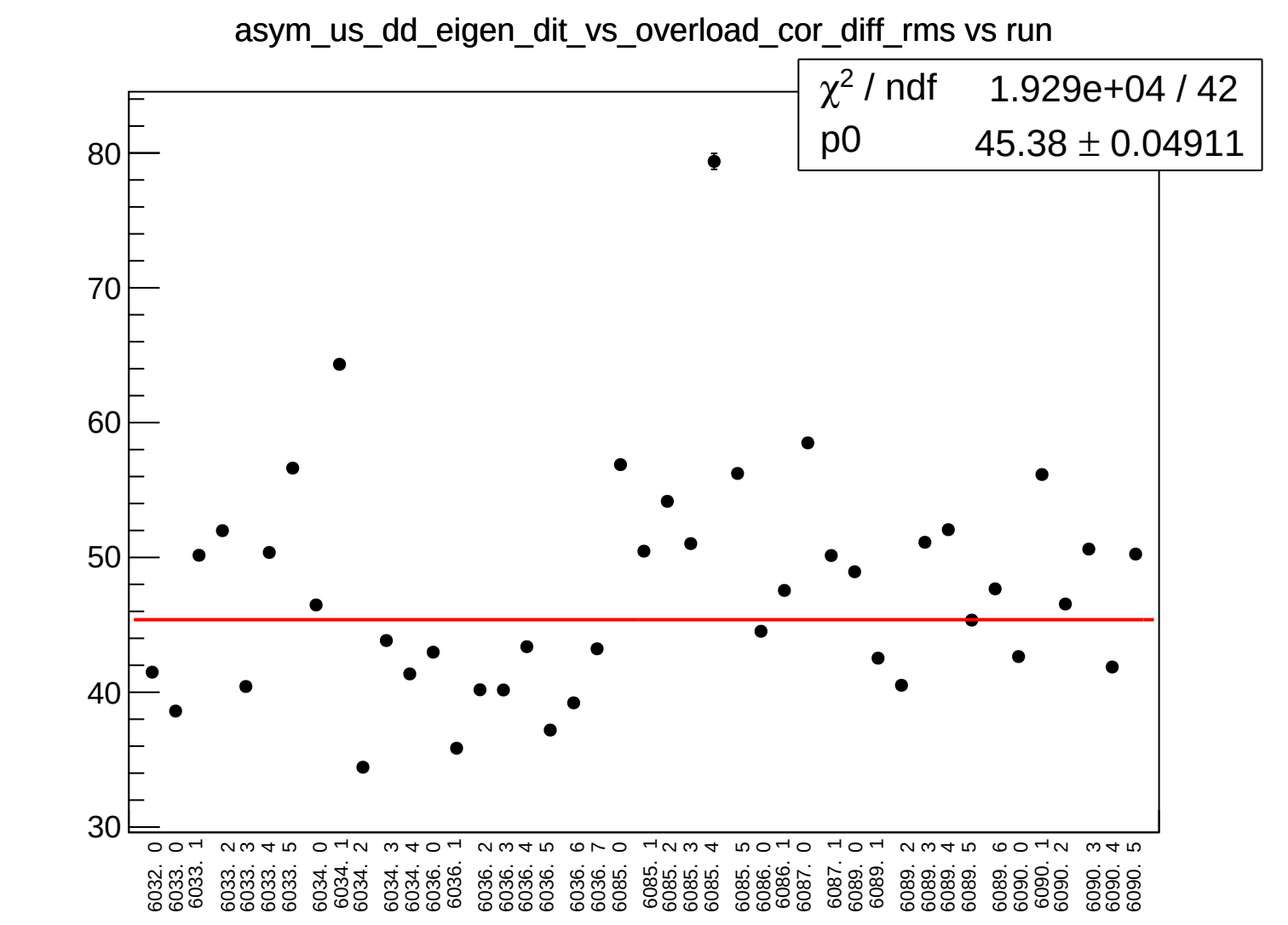

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.219e+04 / 42
p0 25.32 ± 0.02847
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

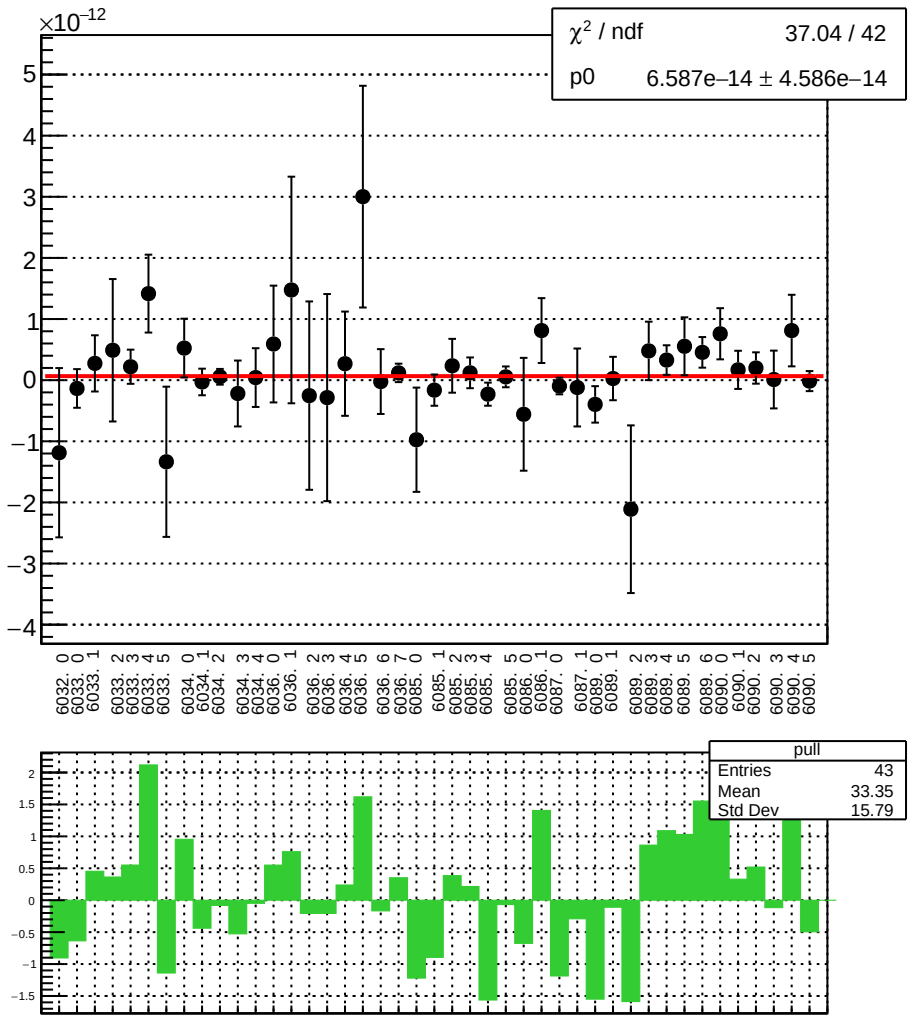

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.61 / 42
p0 0.07126 ± 0.04026
pull
Entries 43
Mean 3.691
Std Dev 0

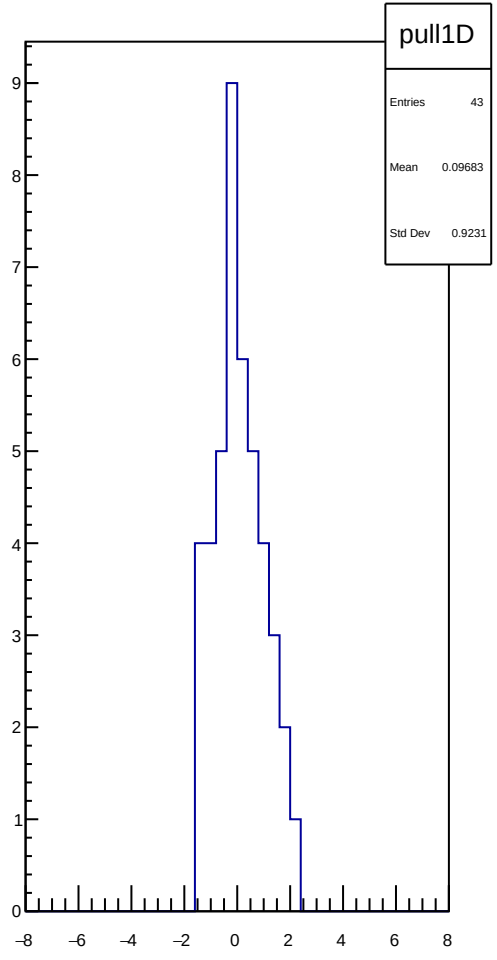

pull1D
Entries 43
Mean 0.03552
Std Dev 0.9592

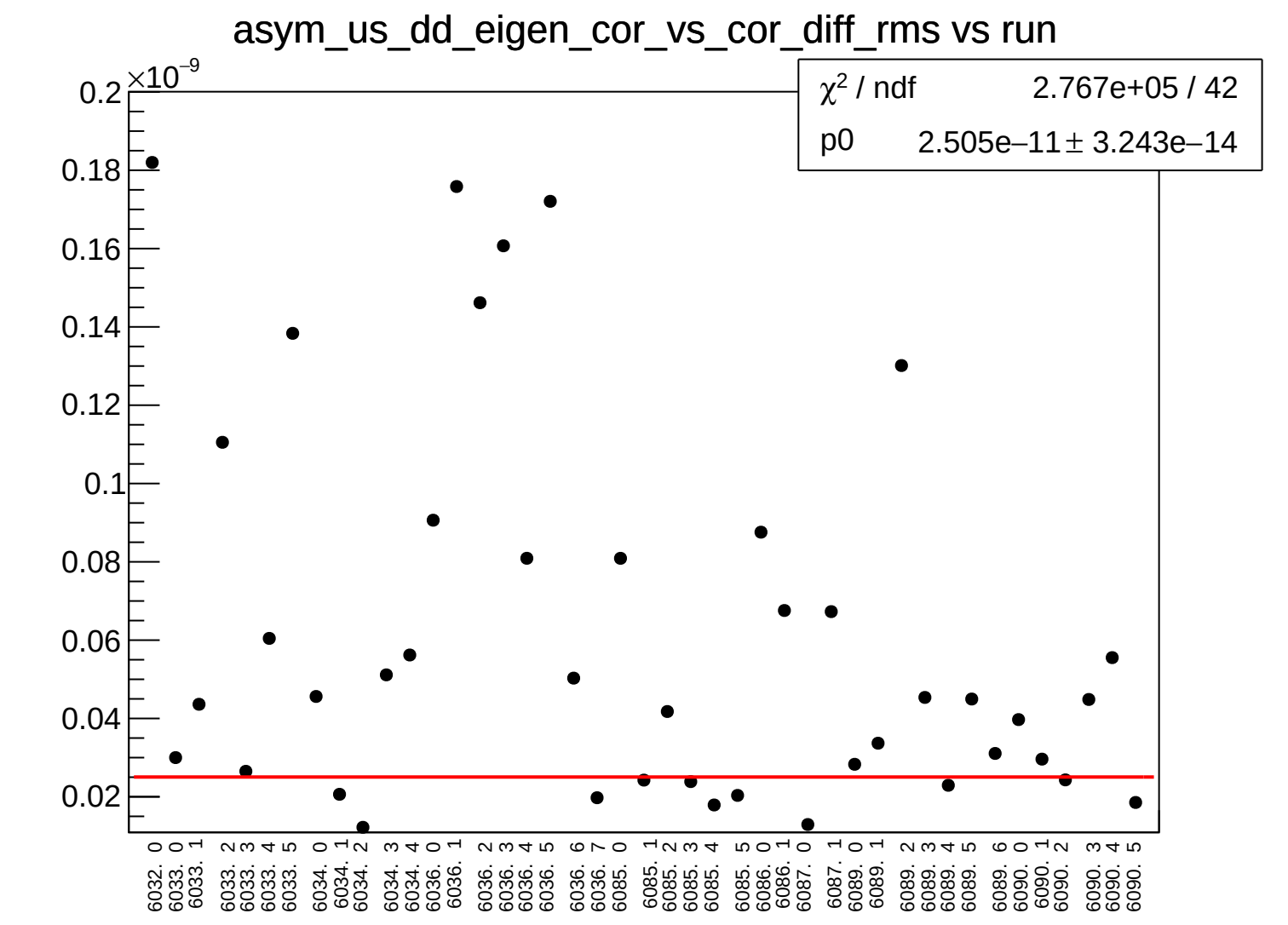

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.219e+04 / 42
p0 25.32 ± 0.02847
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

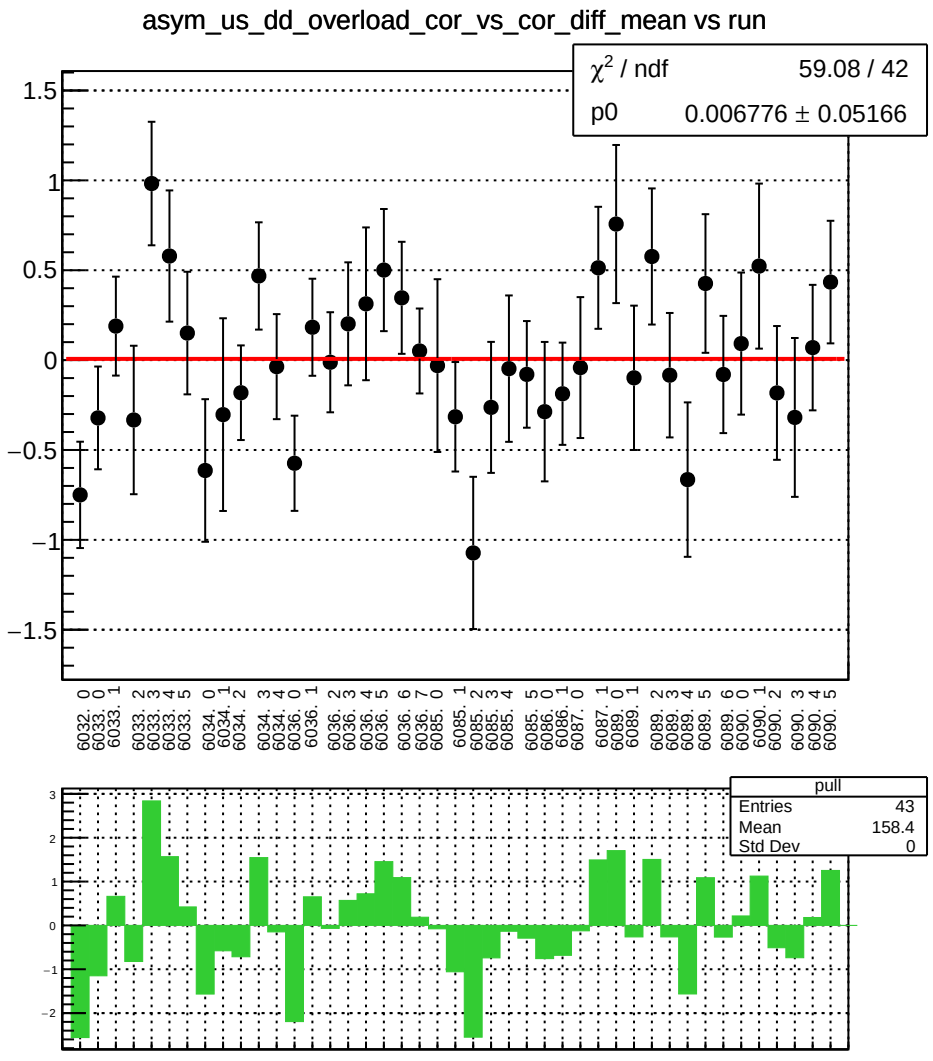

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 51.95 / 42
p0 0.0632 ± 0.06946
pull
Entries 43
Mean −148.4
Std Dev 0
pull1D
Entries 43
Mean 0.01077
Std Dev 1.099

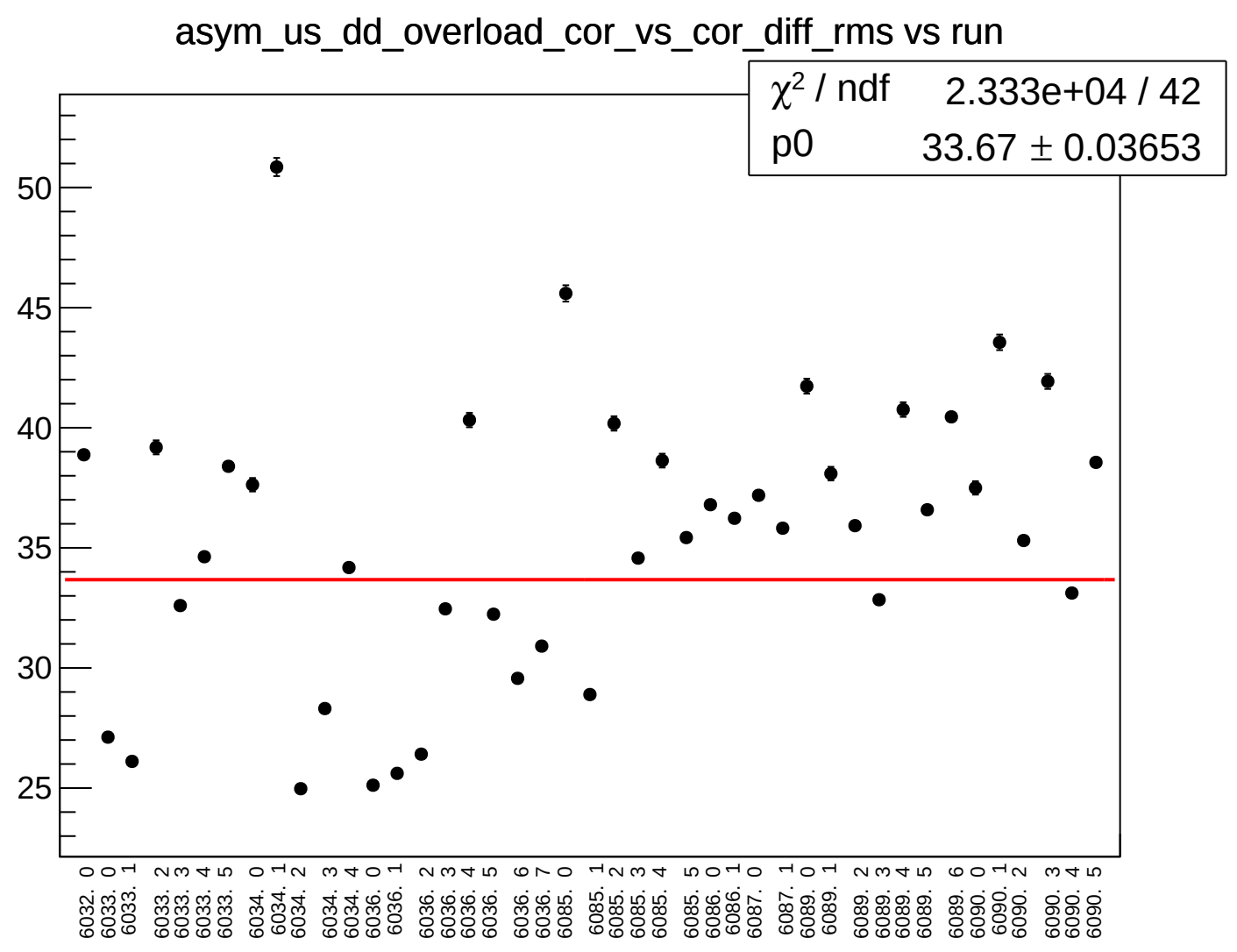

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.929e+04 / 42
p0 45.38 ± 0.04911
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

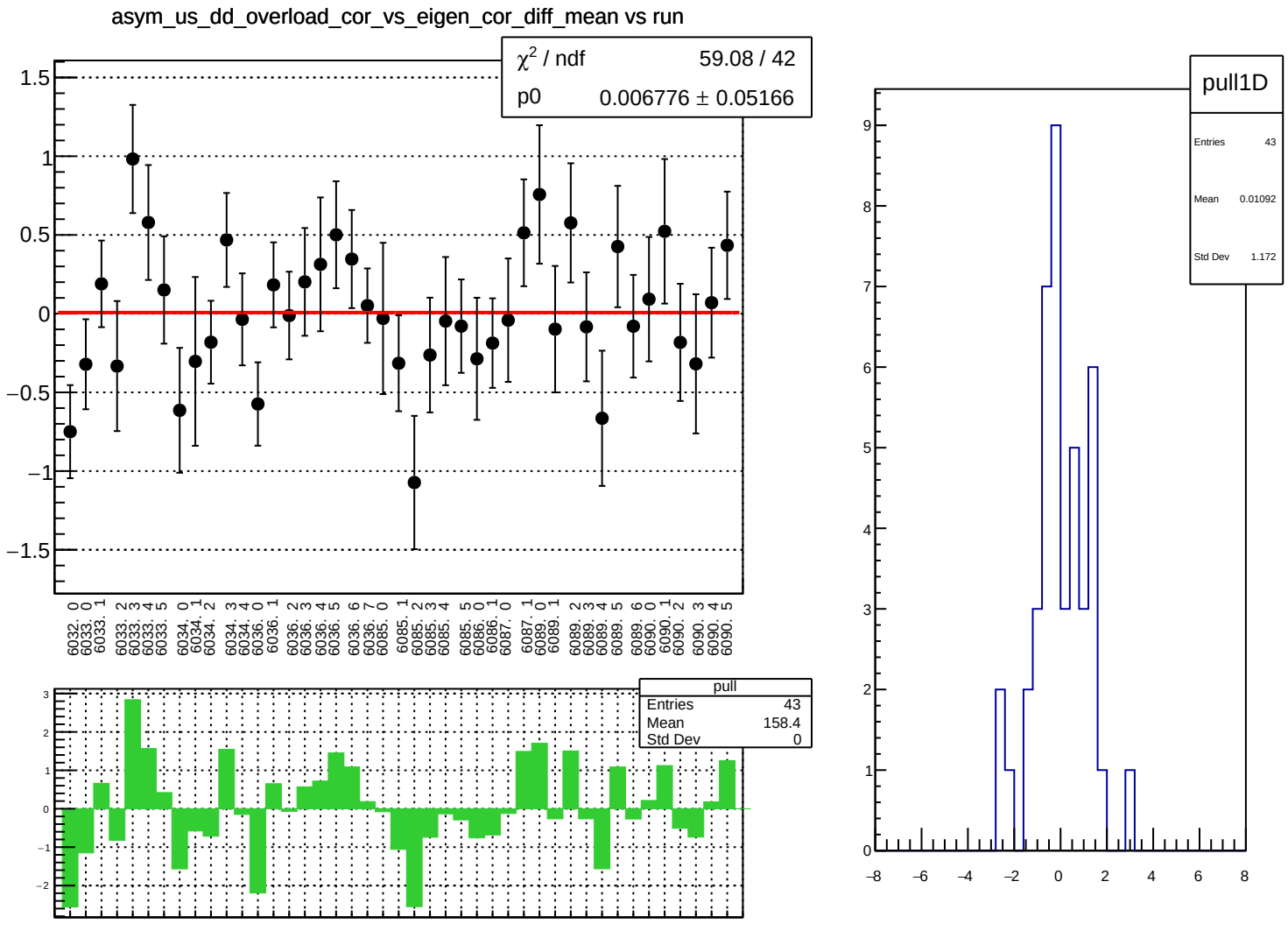

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.04 / 42
p0 6.587e−14 ± 4.586e−14
pull
Entries 43
Mean 33.35
Std Dev 15.79

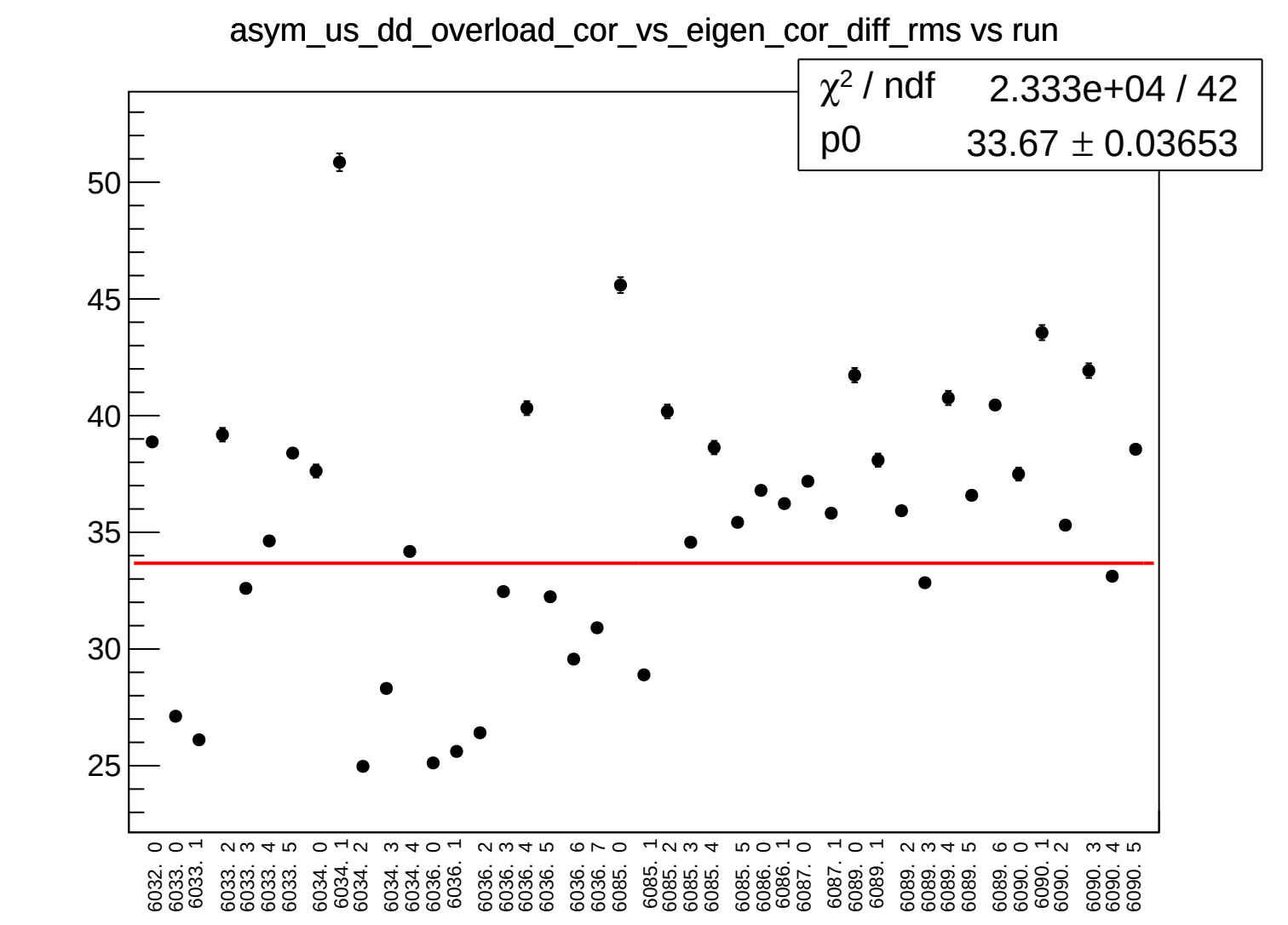

pull1D
Entries 43
Mean 0.09683
Std Dev 0.9231

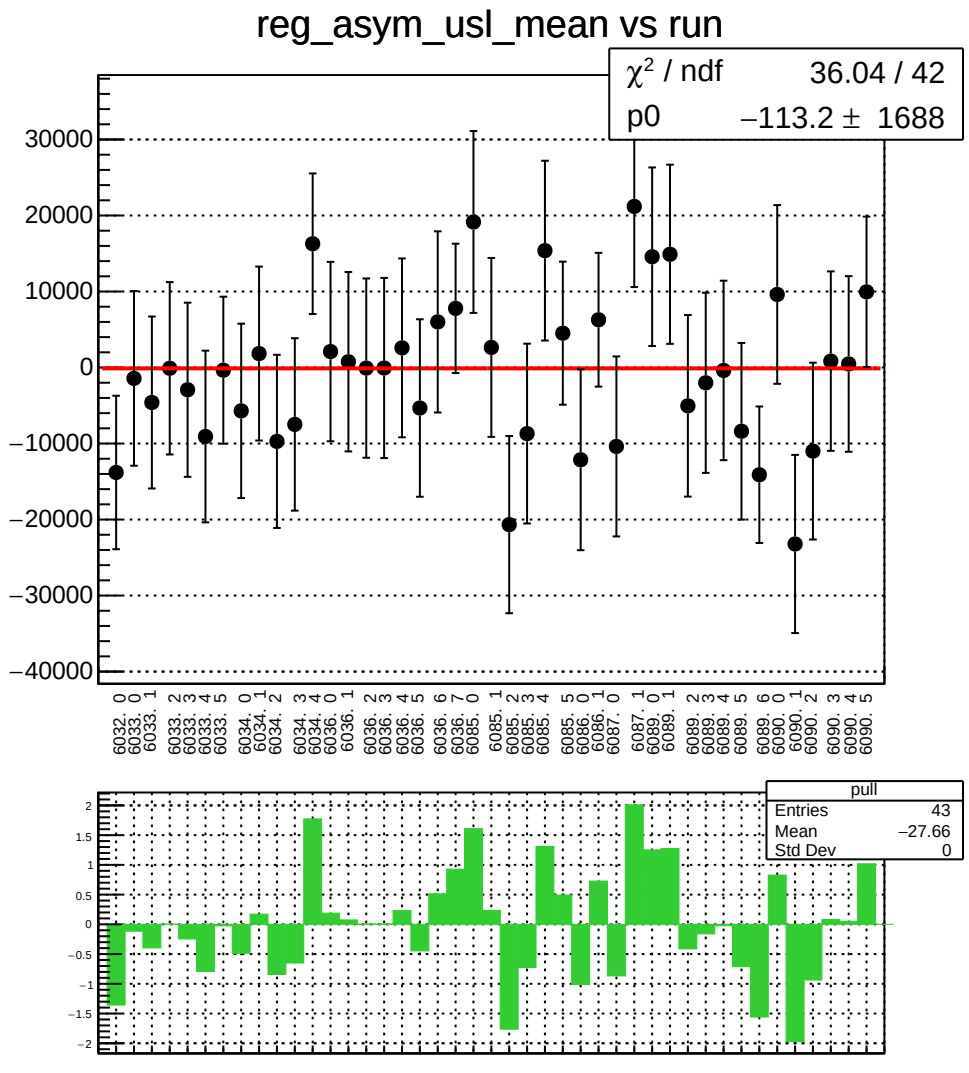

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.767e+05 / 42
p0 2.505e−11 ± 3.243e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

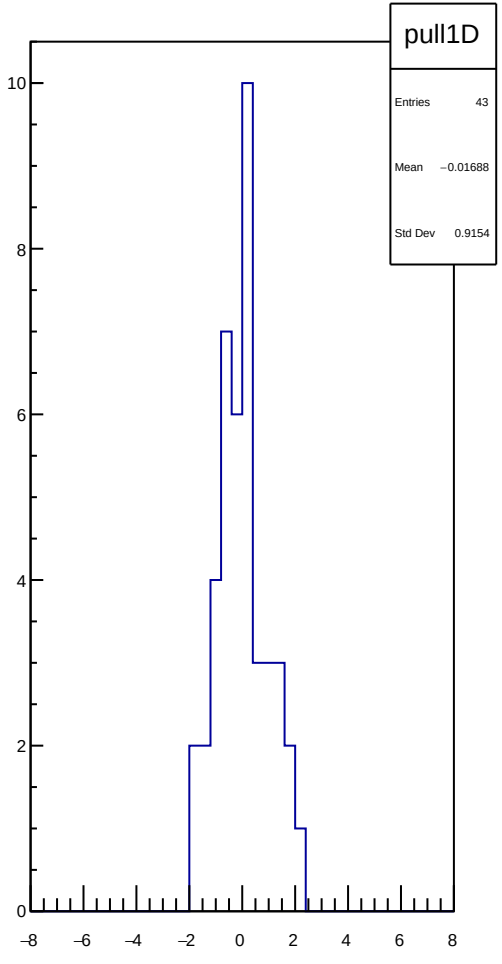

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 59.08 / 42
p0 0.006776 ± 0.05166
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 158.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01092
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

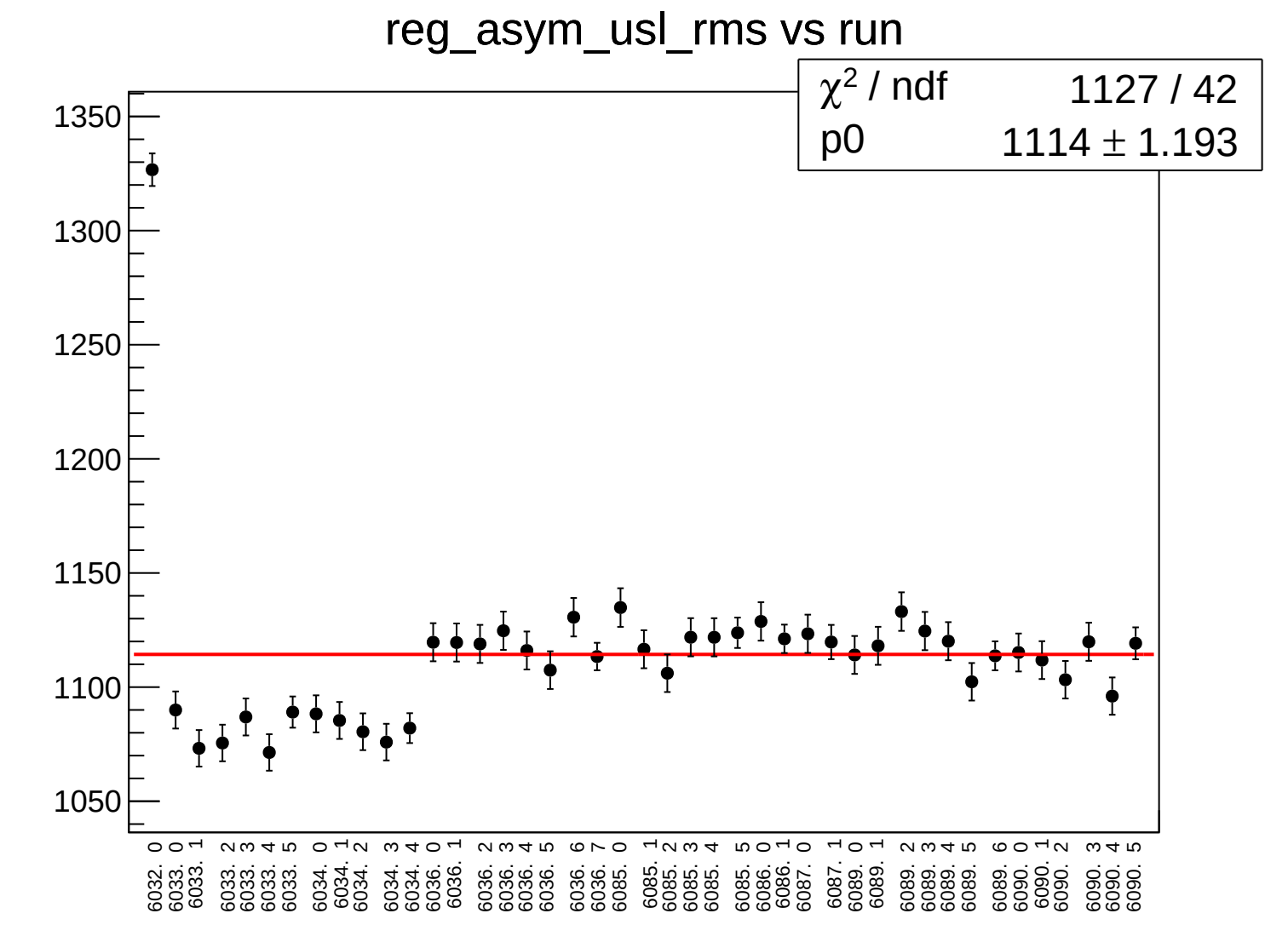

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.333e+04 / 42
p0 33.67 ± 0.03653
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

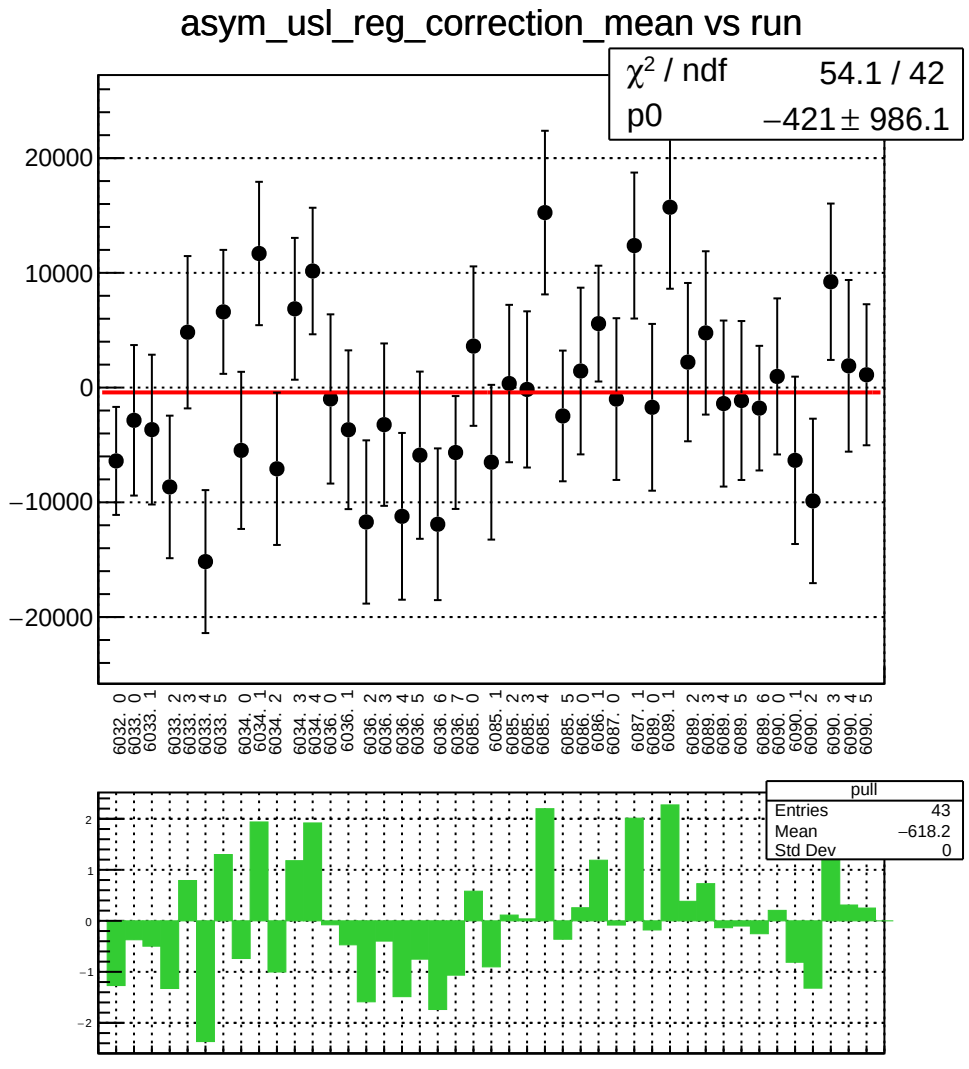

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 59.08 / 42
p0 0.006776 ± 0.05166
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 158.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01092
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

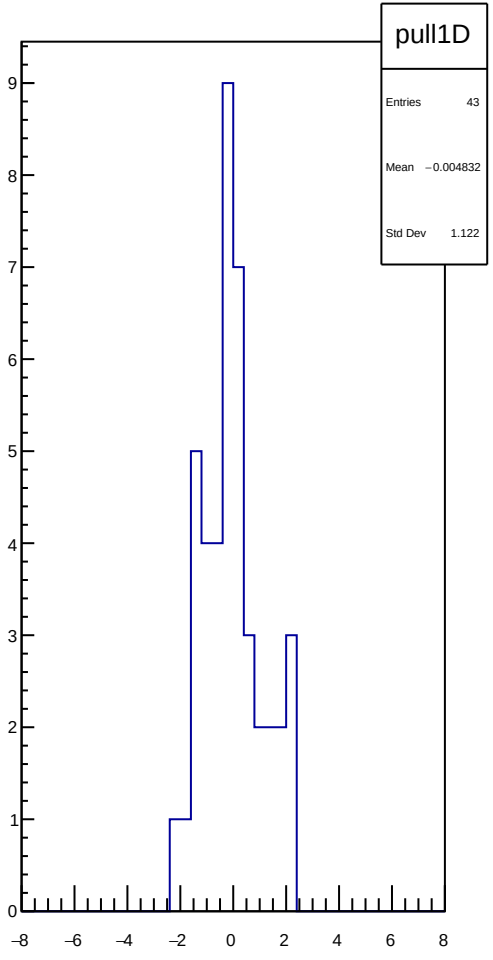

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.333e+04 / 42
p0 33.67 ± 0.03653
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

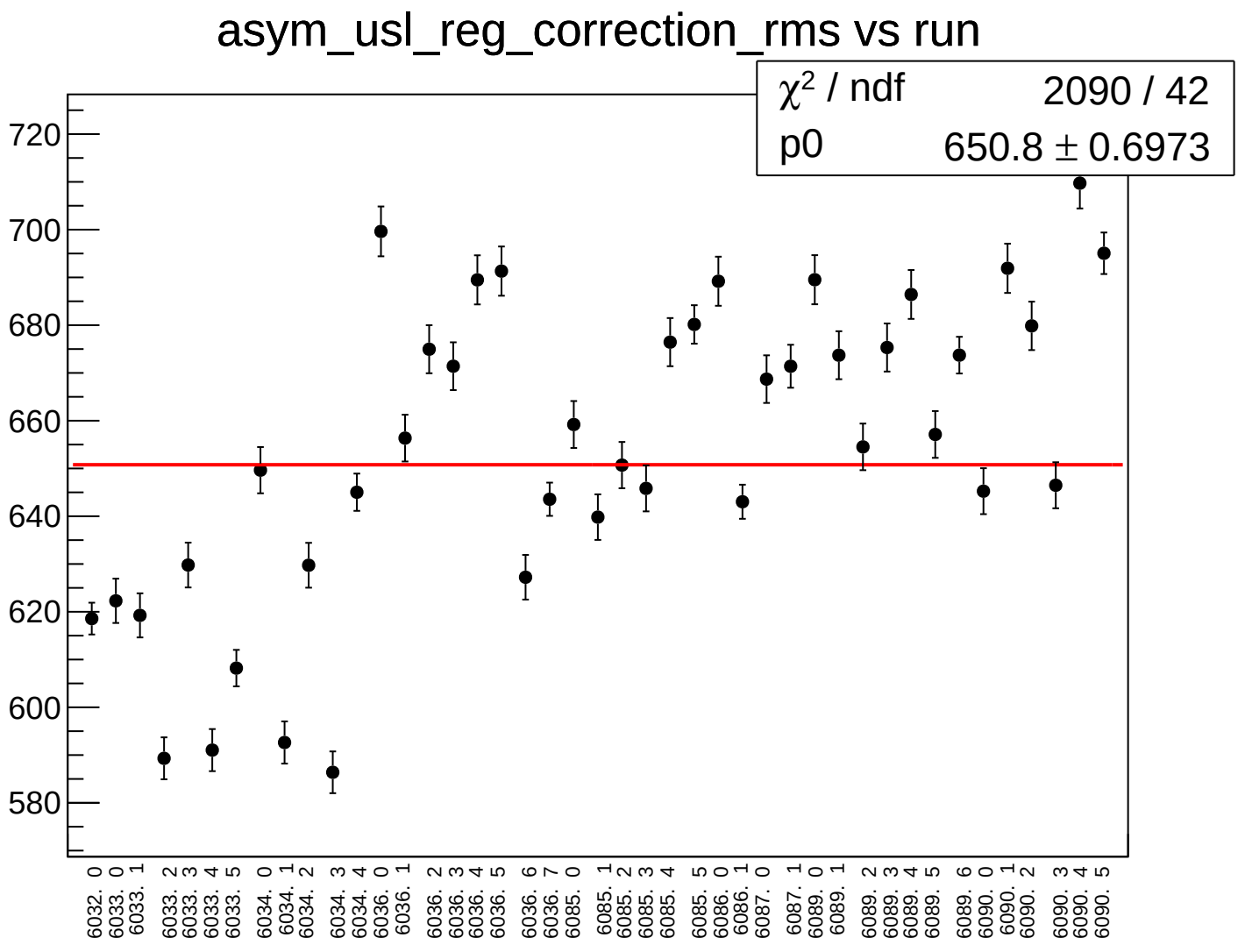

reg_asym_usl_mean vs run
χ² / ndf 36.04 / 42
p0 −113.2 ± 1688
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

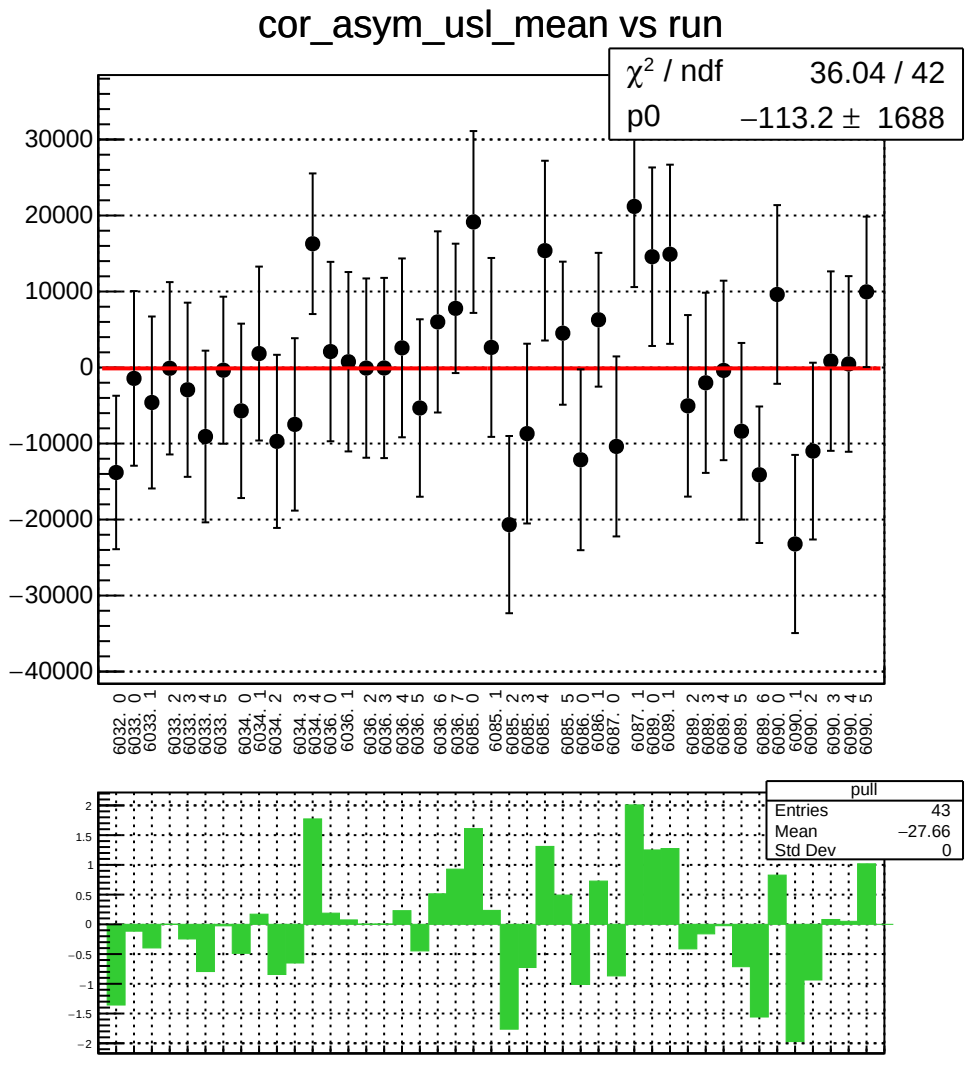

pull1D
Entries 43
Mean −0.01688
Std Dev 0.9154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

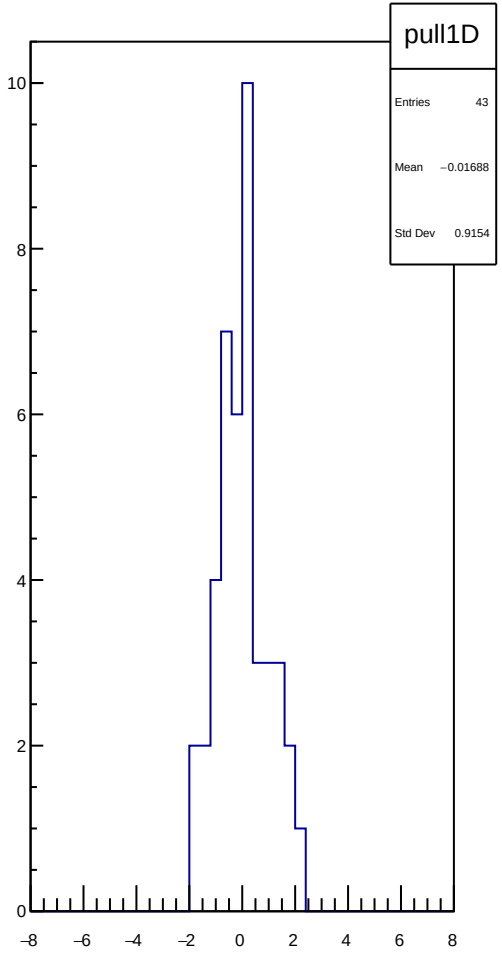

reg_asym_usl_rms vs run
χ² / ndf 1127 / 42
p0 1114 ± 1.193
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

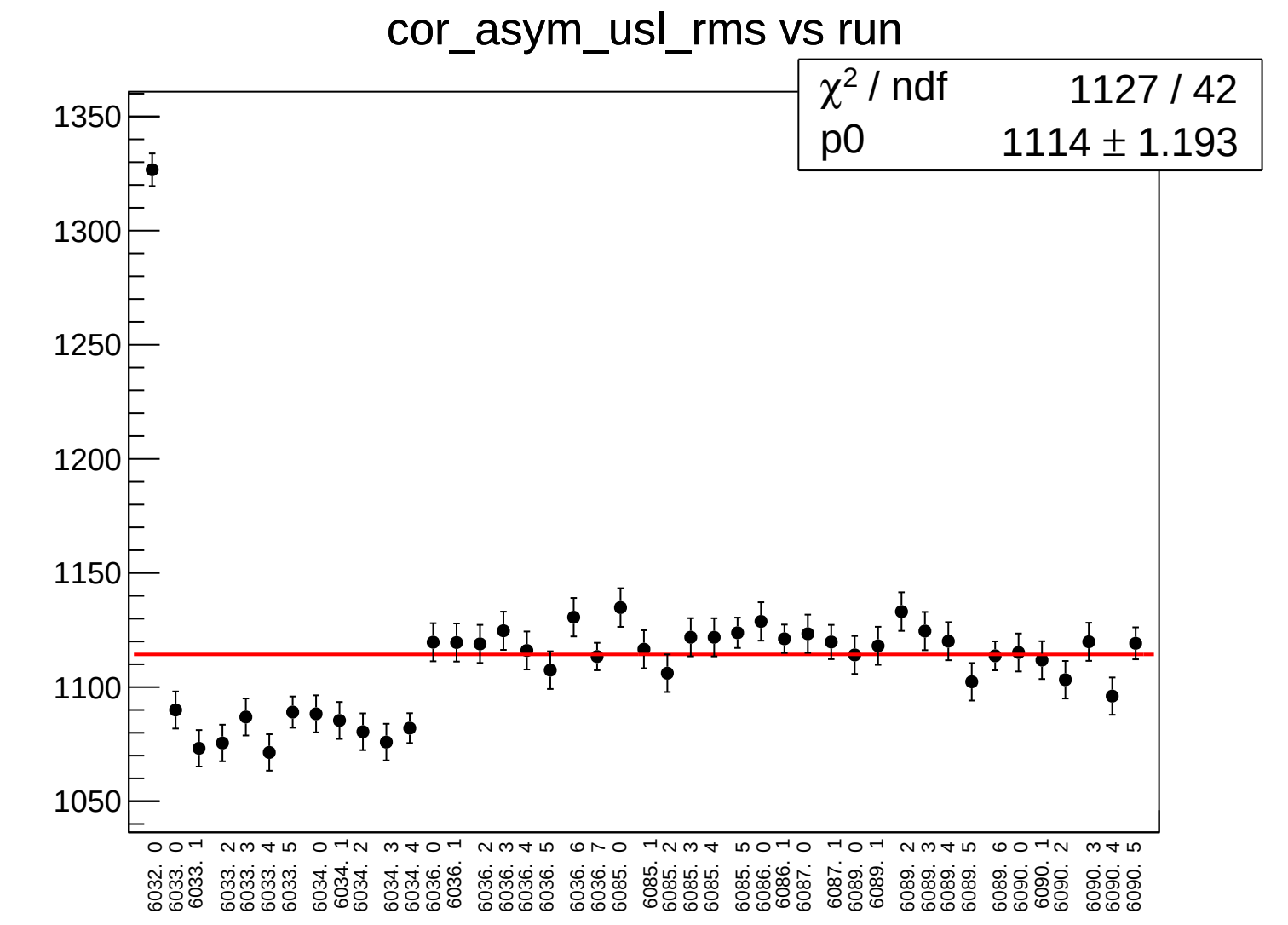

asym_usl_reg_correction_mean vs run
χ² / ndf 54.1 / 42
p0 −421 ± 986.1
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −618.2
Std Dev 0
2
1
0
−1
−2

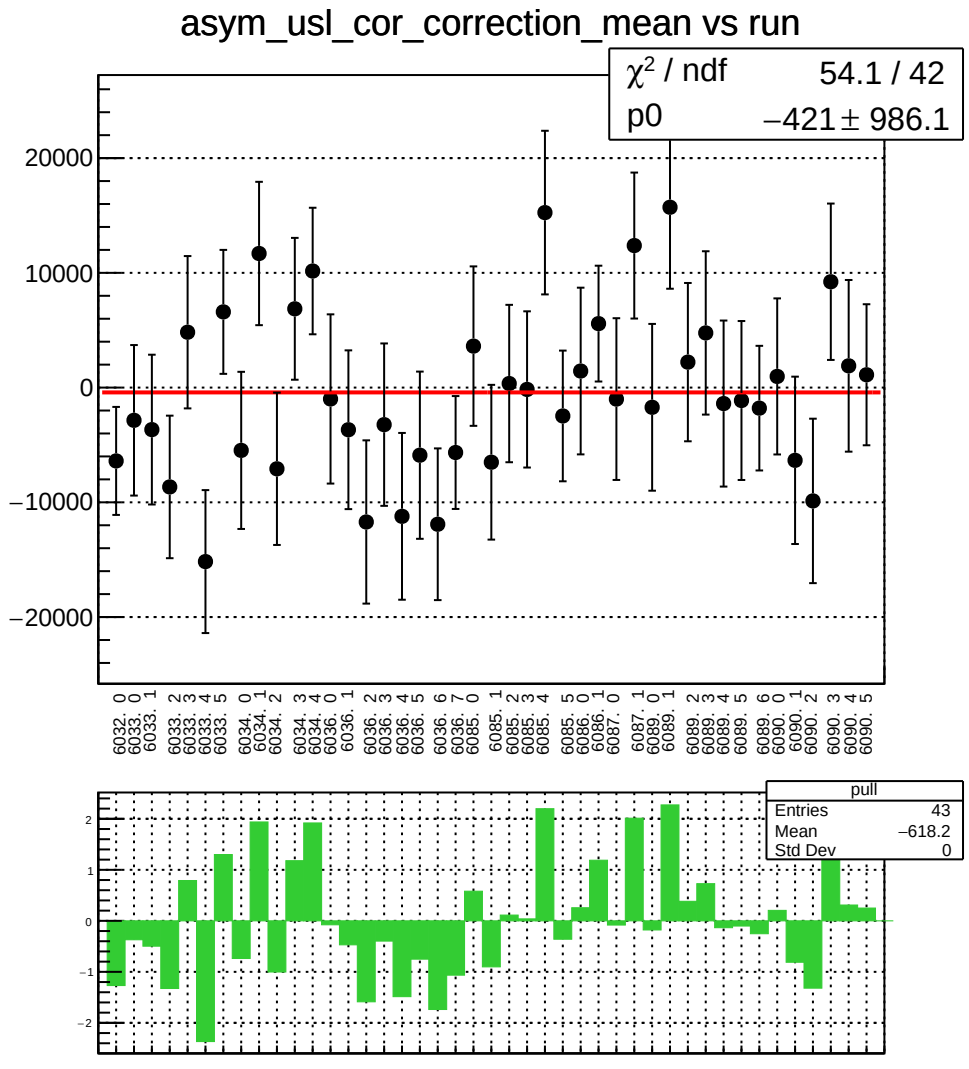

pull1D
Entries 43
Mean −0.004832
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

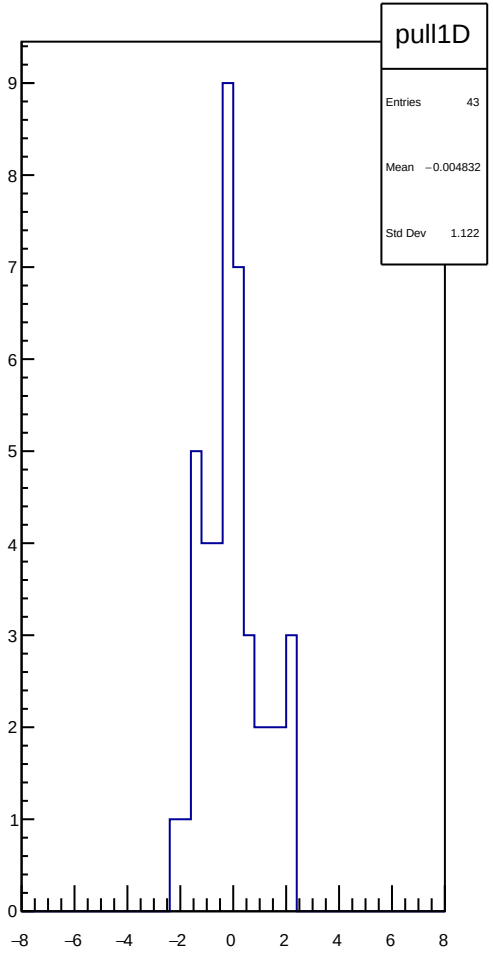

asym_usl_reg_correction_rms vs run
χ² / ndf 2090 / 42
p0 650.8 ± 0.6973
720
700
680
660
640
620
600
580
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

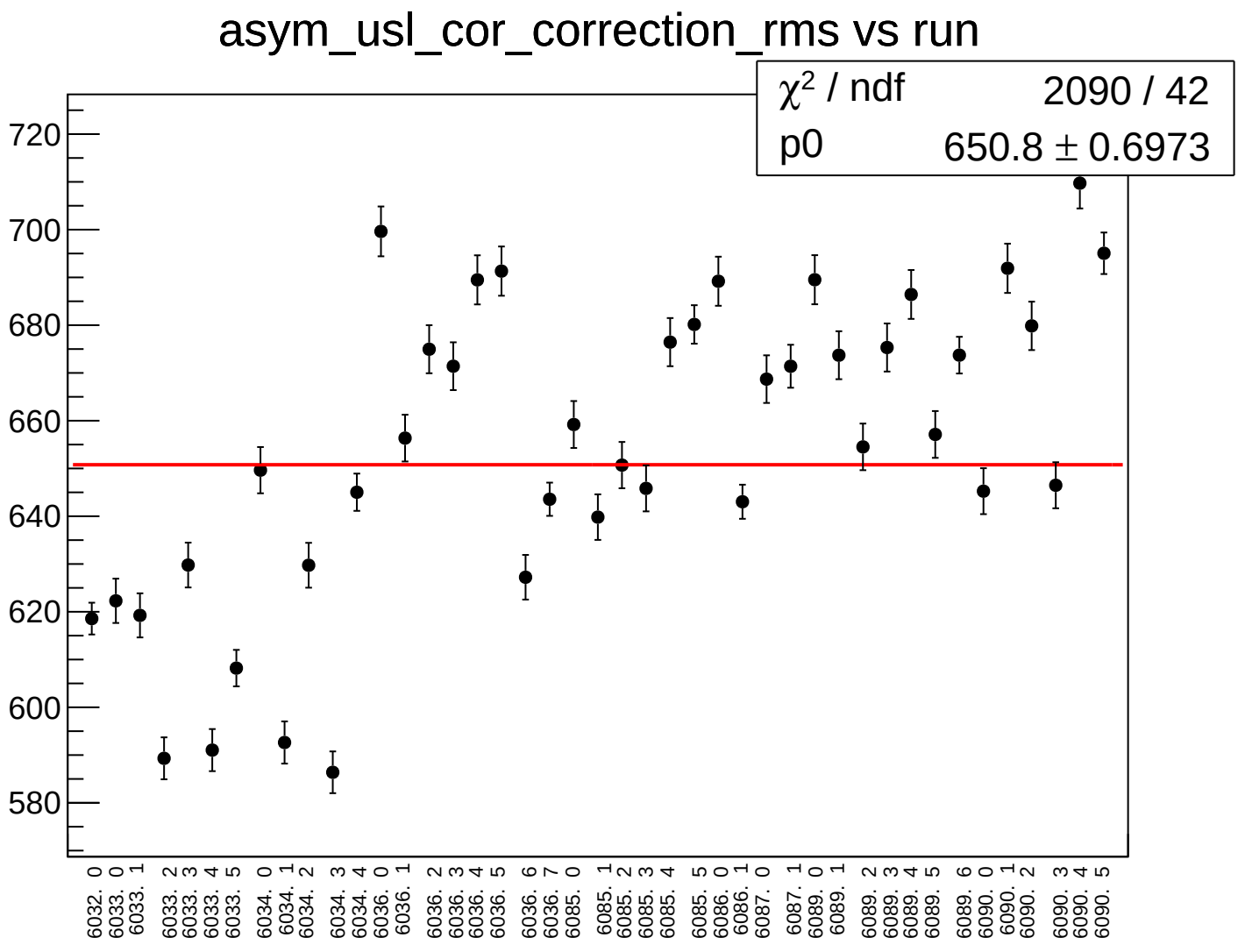

cor_asym_usl_mean vs run
χ² / ndf 36.04 / 42
p0 −113.2 ± 1688
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

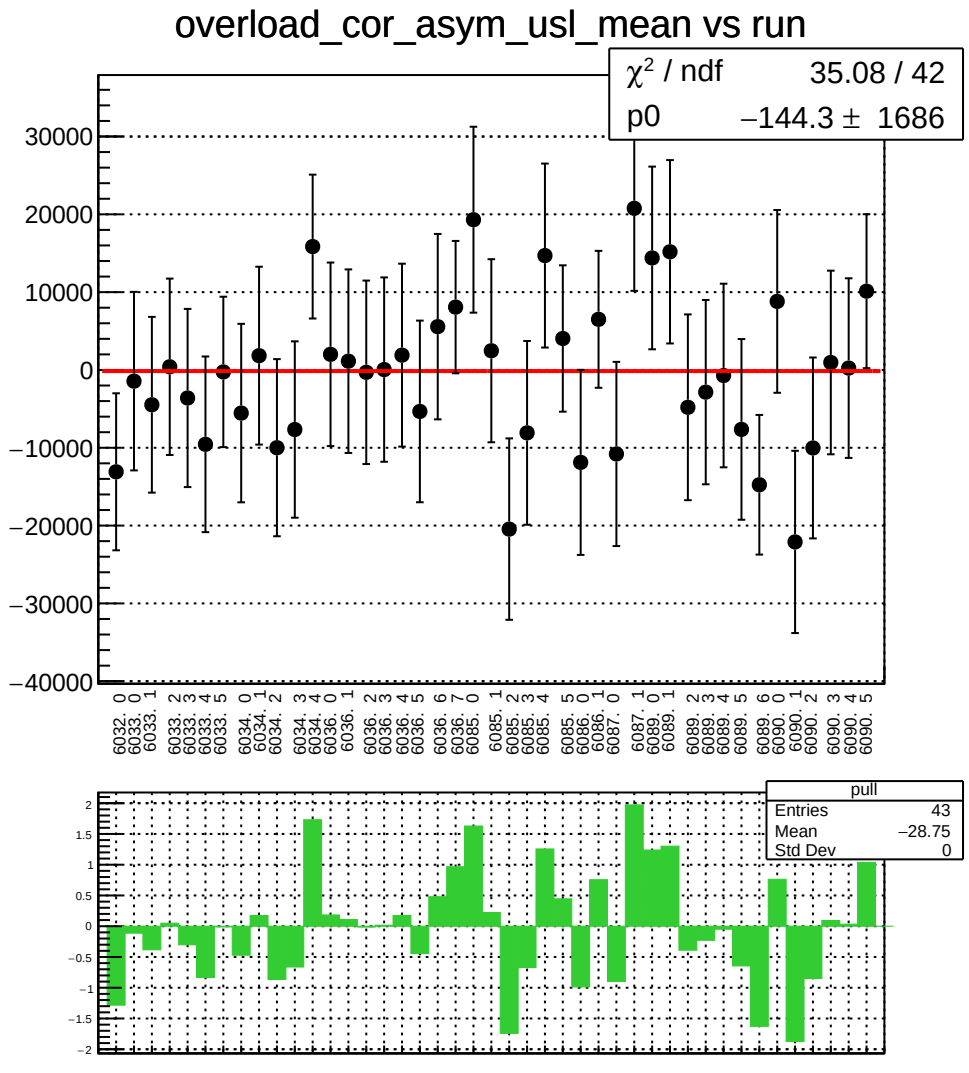

pull1D
Entries 43
Mean −0.01688
Std Dev 0.9154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

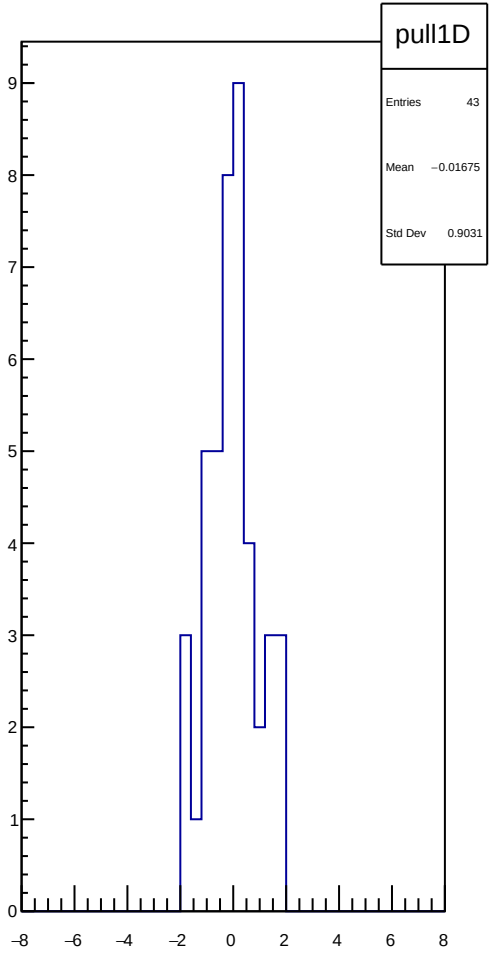

cor_asym_usl_rms vs run
χ² / ndf 1127 / 42
p0 1114 ± 1.193
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

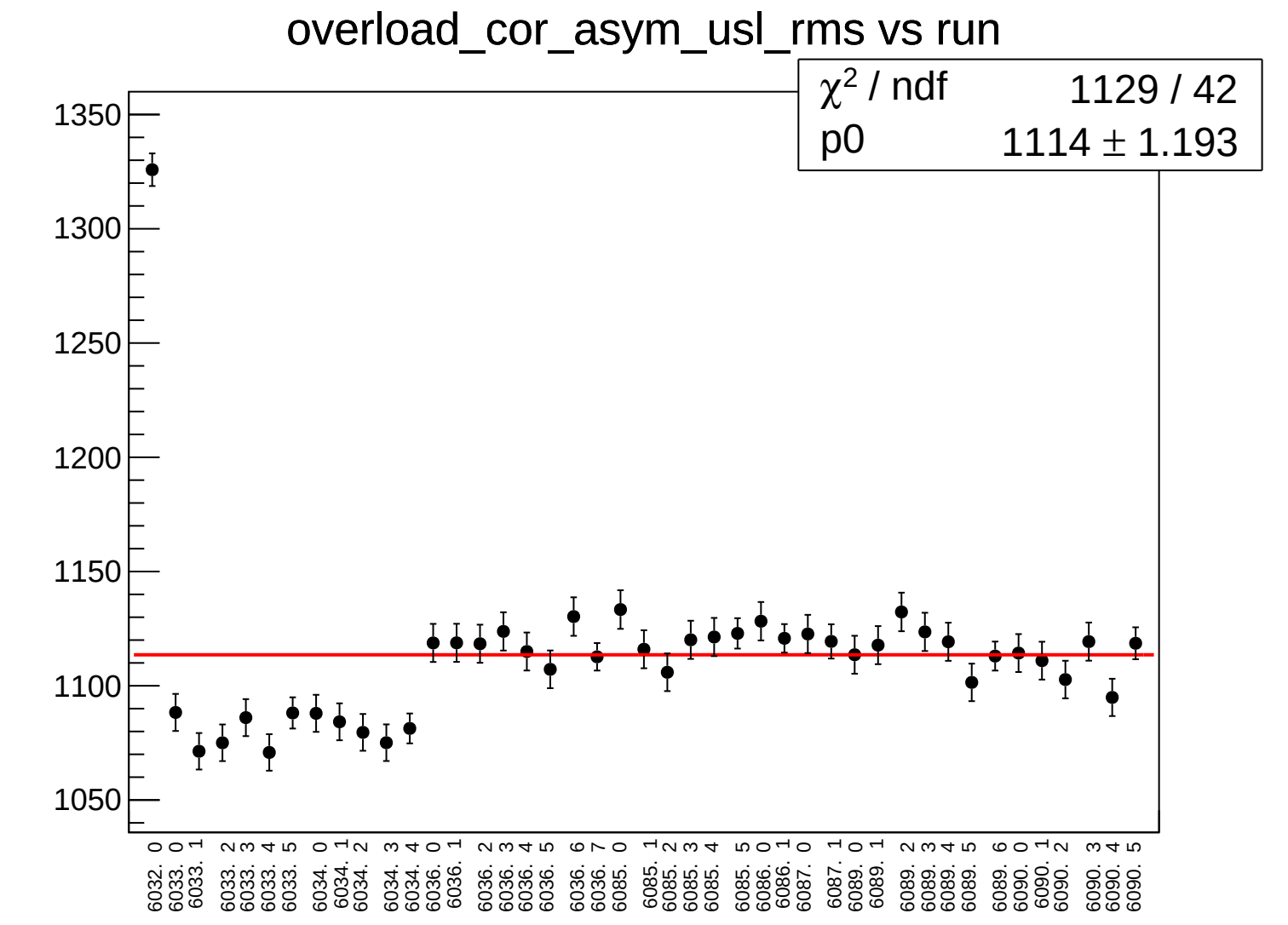

asym_usl_cor_correction_mean vs run
χ² / ndf 54.1 / 42
p0 −421 ± 986.1
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −618.2
Std Dev 0
2
1
0
−1
−2

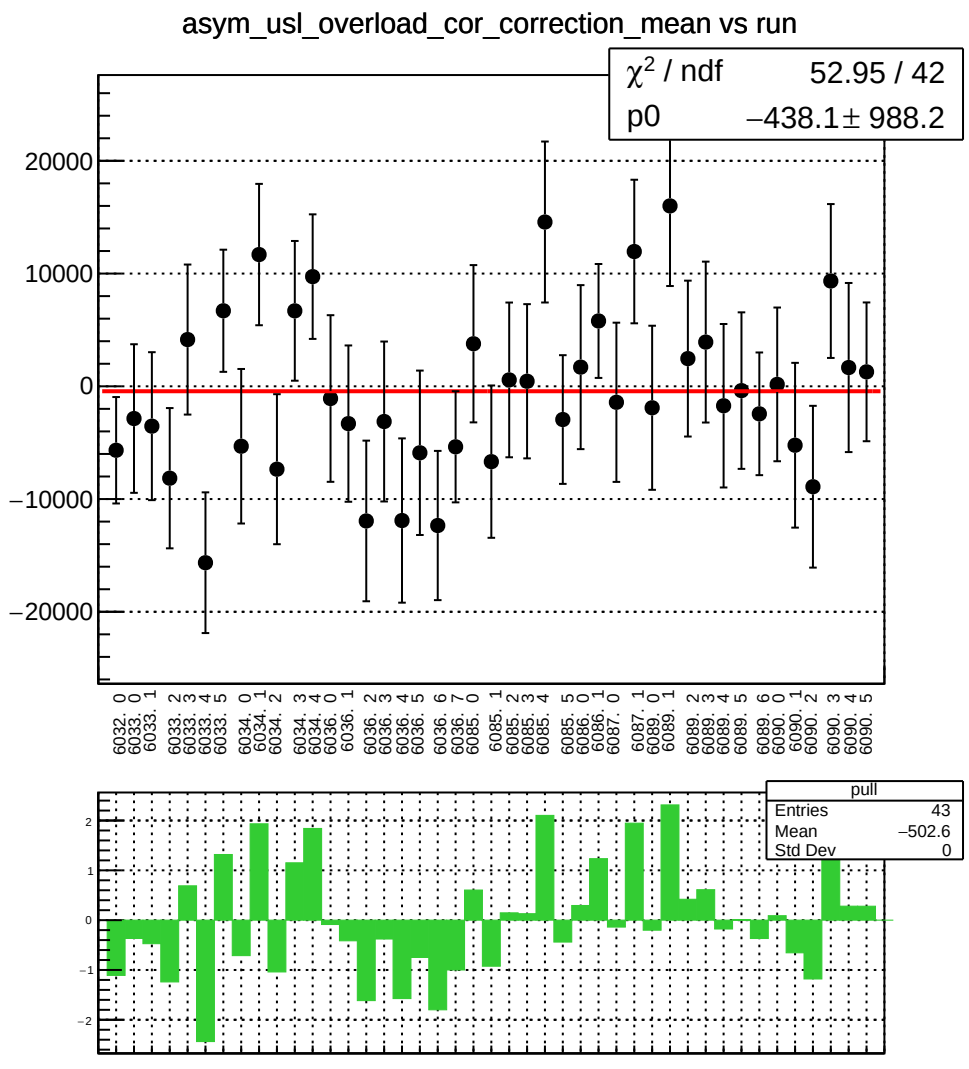

pull1D
Entries 43
Mean −0.004832
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

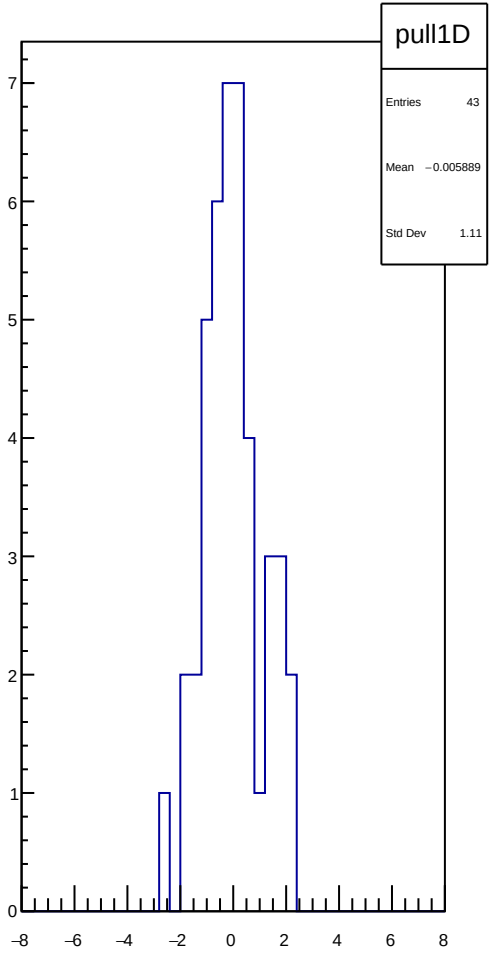

asym_usl_cor_correction_rms vs run
χ² / ndf 2090 / 42
p0 650.8 ± 0.6973
720
700
680
660
640
620
600
580
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

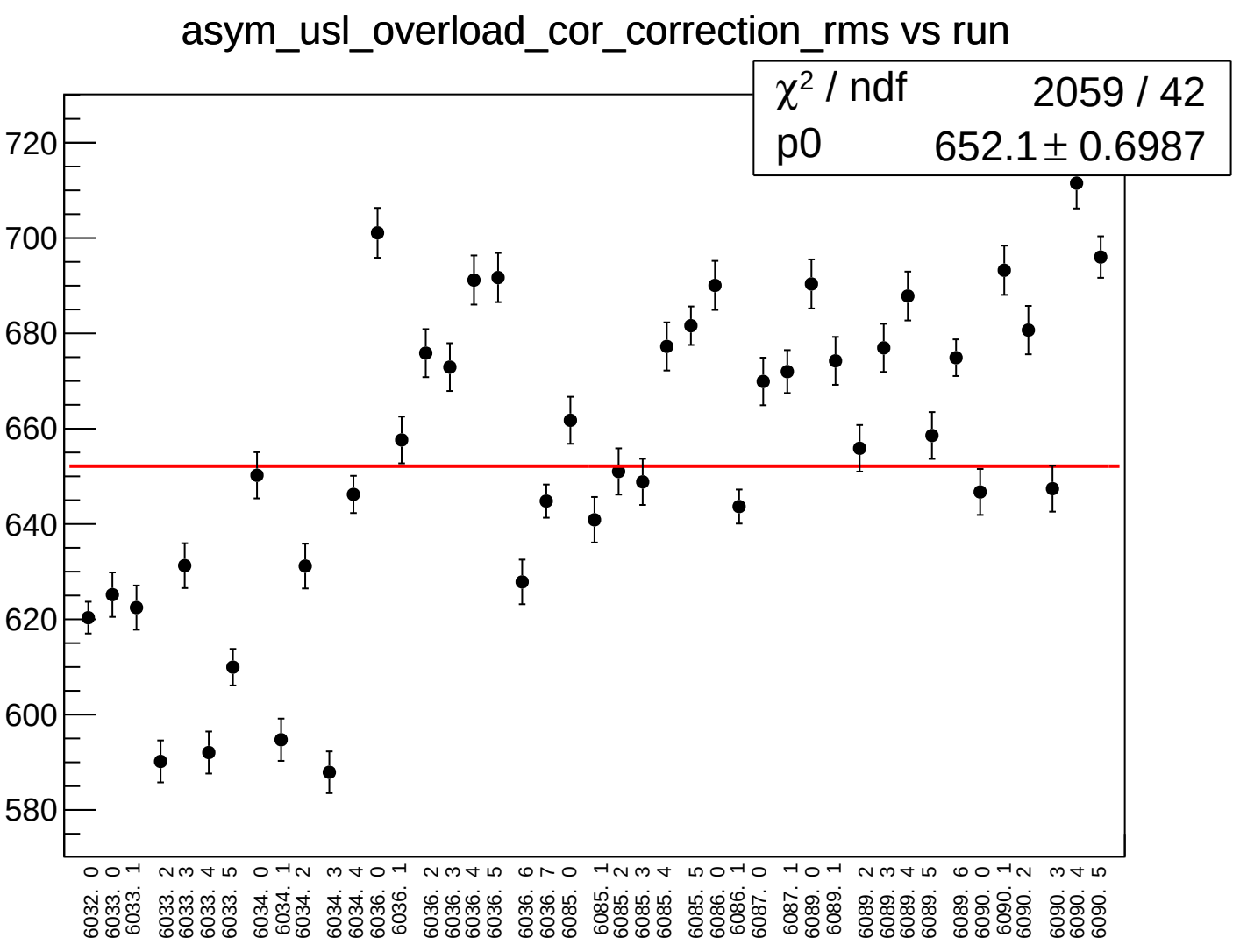

overload_cor_asym_usl_mean vs run
χ² / ndf 35.08 / 42
p0 −144.3 ± 1686
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

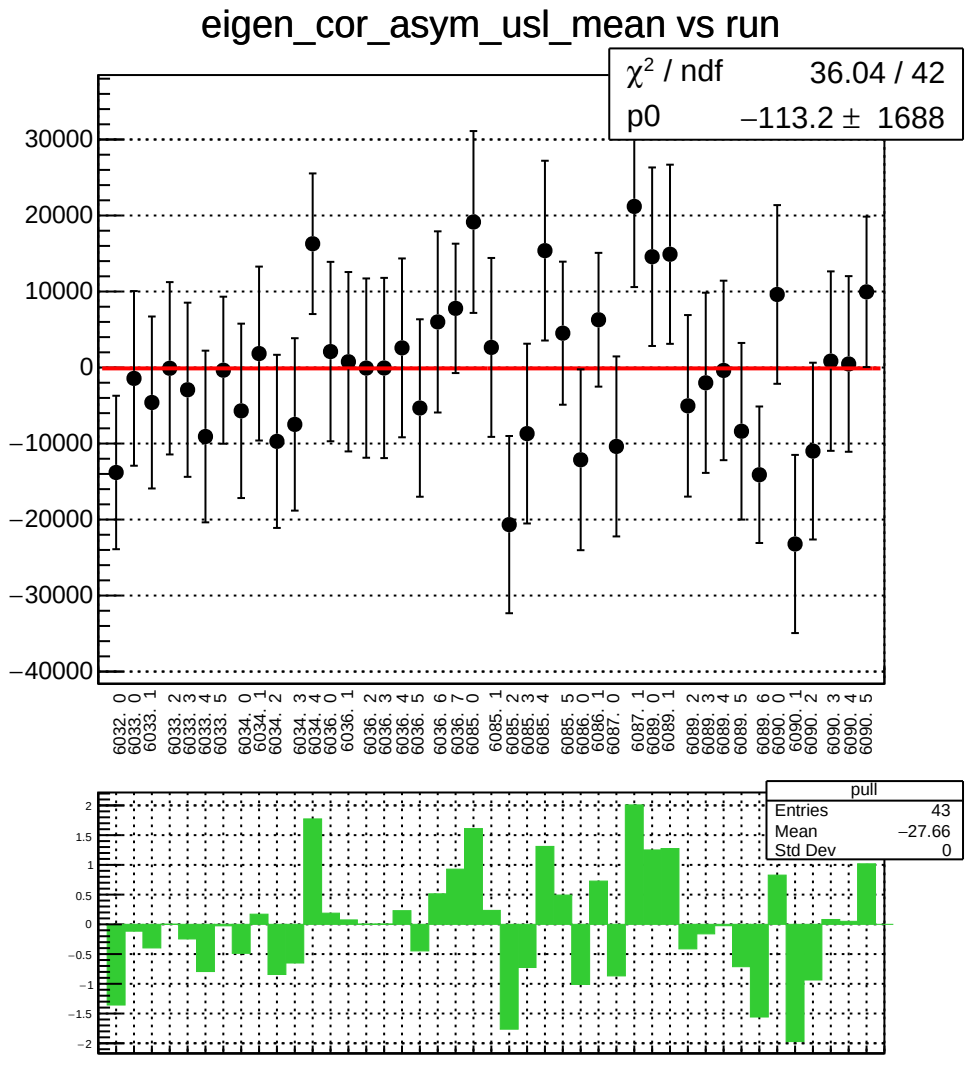

pull1D
Entries 43
Mean −0.01675
Std Dev 0.9031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

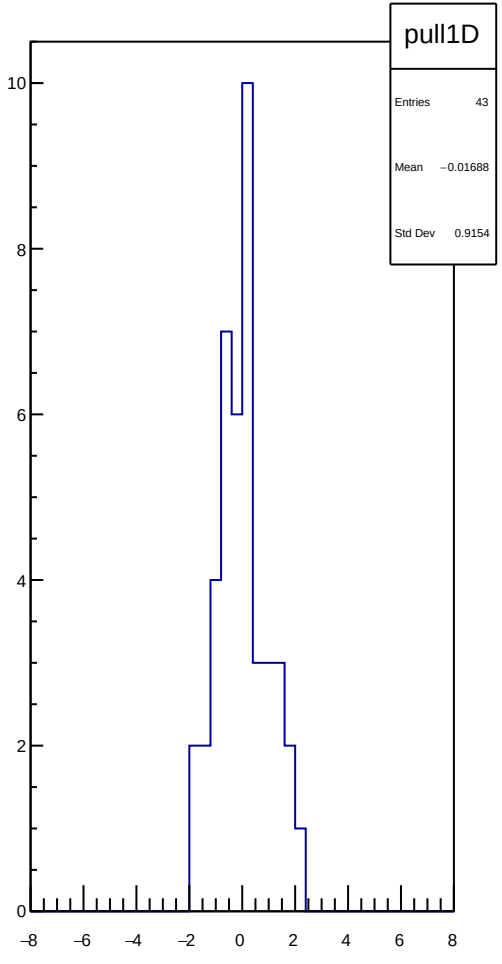

overload_cor_asym_usl_rms vs run
χ² / ndf 1129 / 42
p0 1114 ± 1.193
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

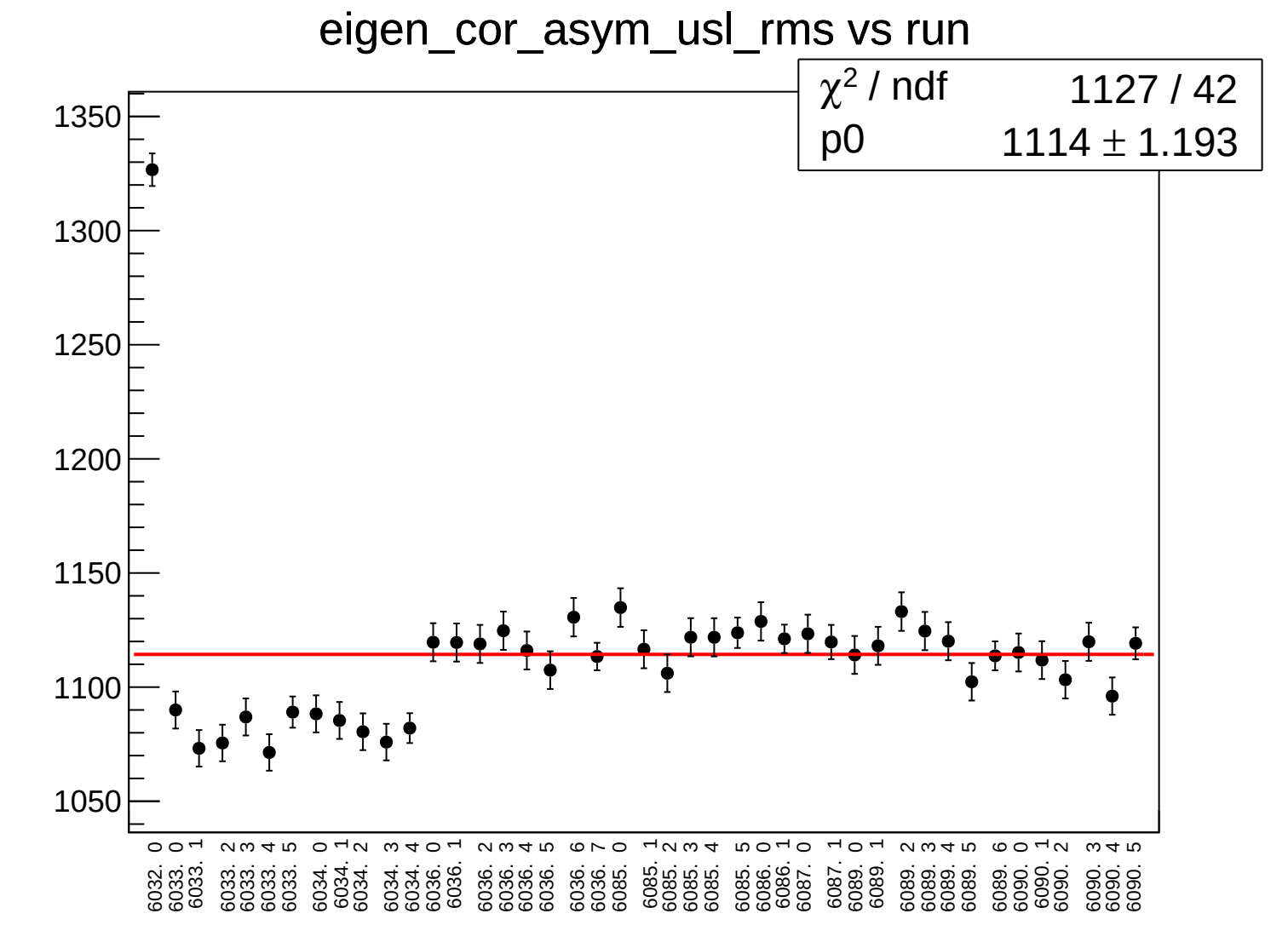

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 52.95 / 42
p0 −438.1 ± 988.2
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −502.6
Std Dev 0
2
1
0
−1
−2

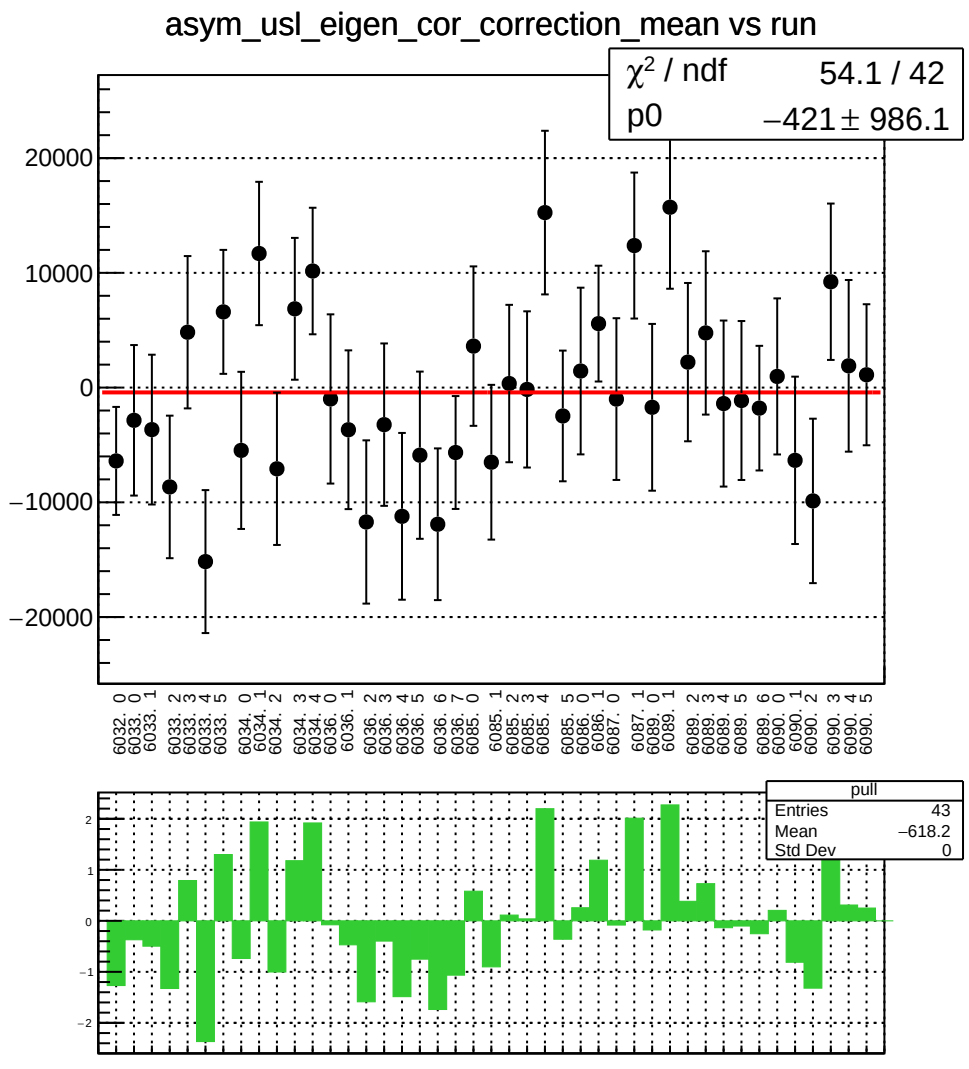

pull1D
Entries 43
Mean −0.005889
Std Dev 1.11
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

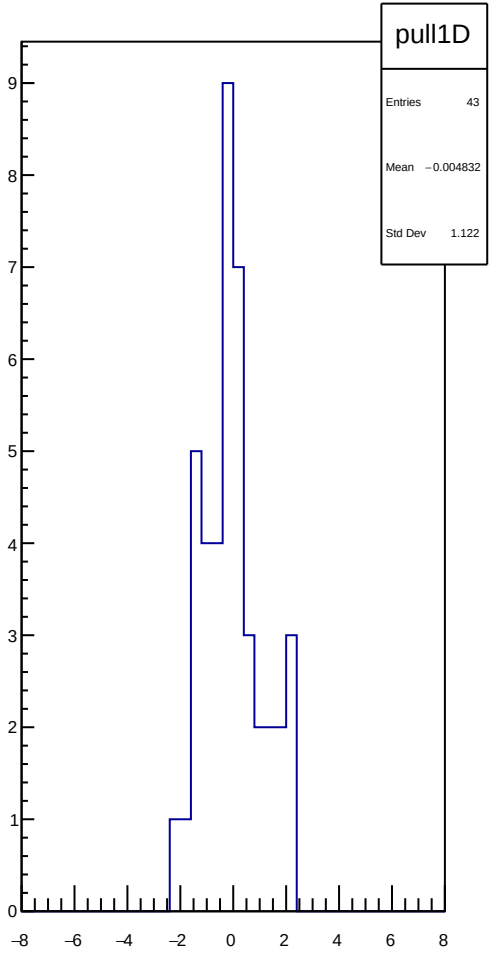

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2059 / 42
p0 652.1 ± 0.6987
720
700
680
660
640
620
600
580
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

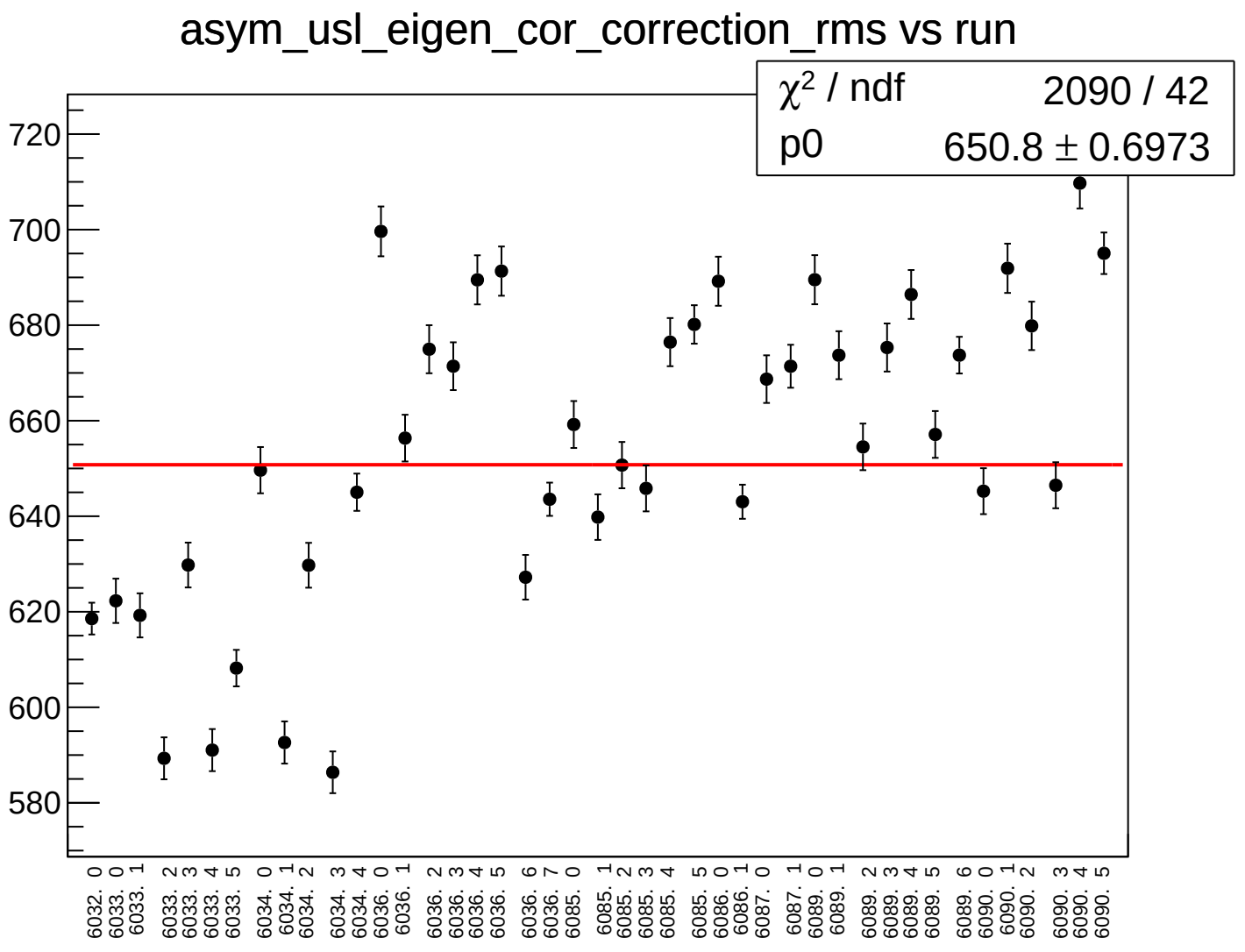

eigen_cor_asym_usl_mean vs run
χ² / ndf 36.04 / 42
p0 −113.2 ± 1688
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

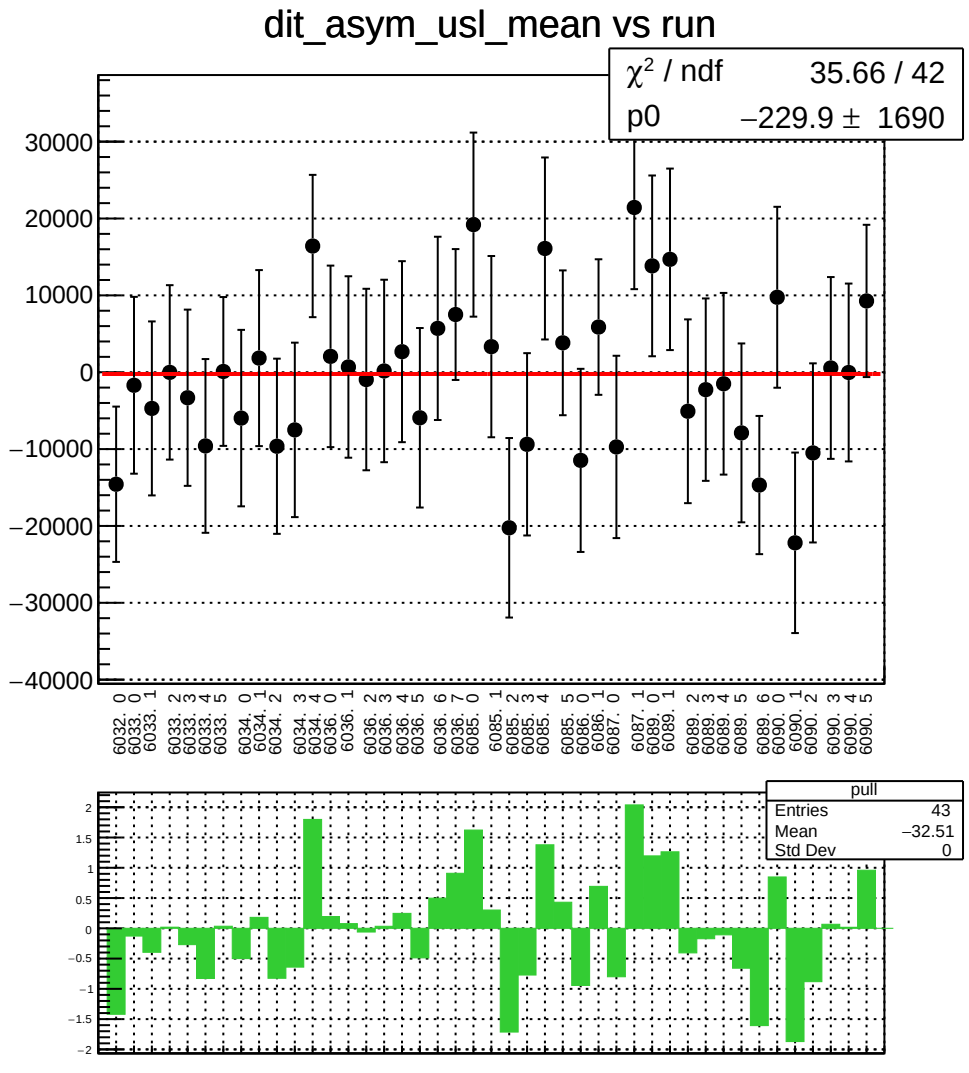

pull1D
Entries 43
Mean −0.01688
Std Dev 0.9154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

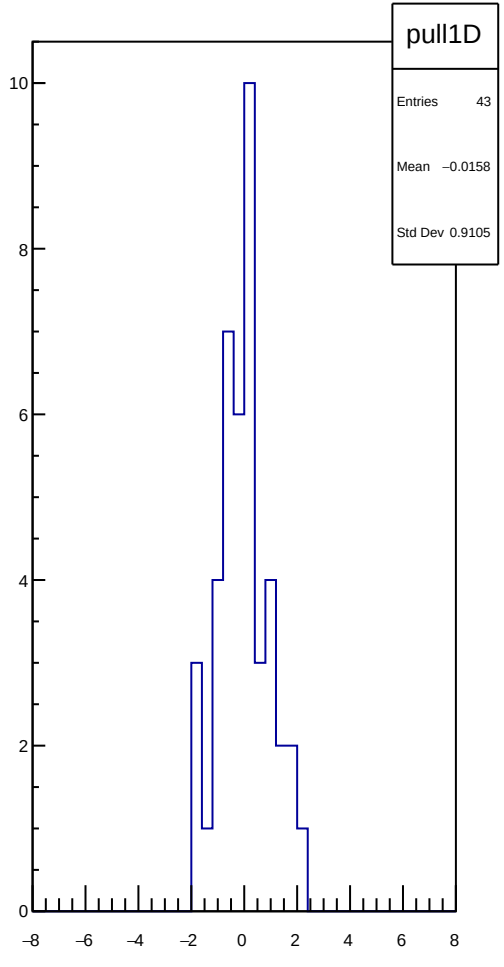

eigen_cor_asym_usl_rms vs run
χ² / ndf 1127 / 42
p0 1114 ± 1.193
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

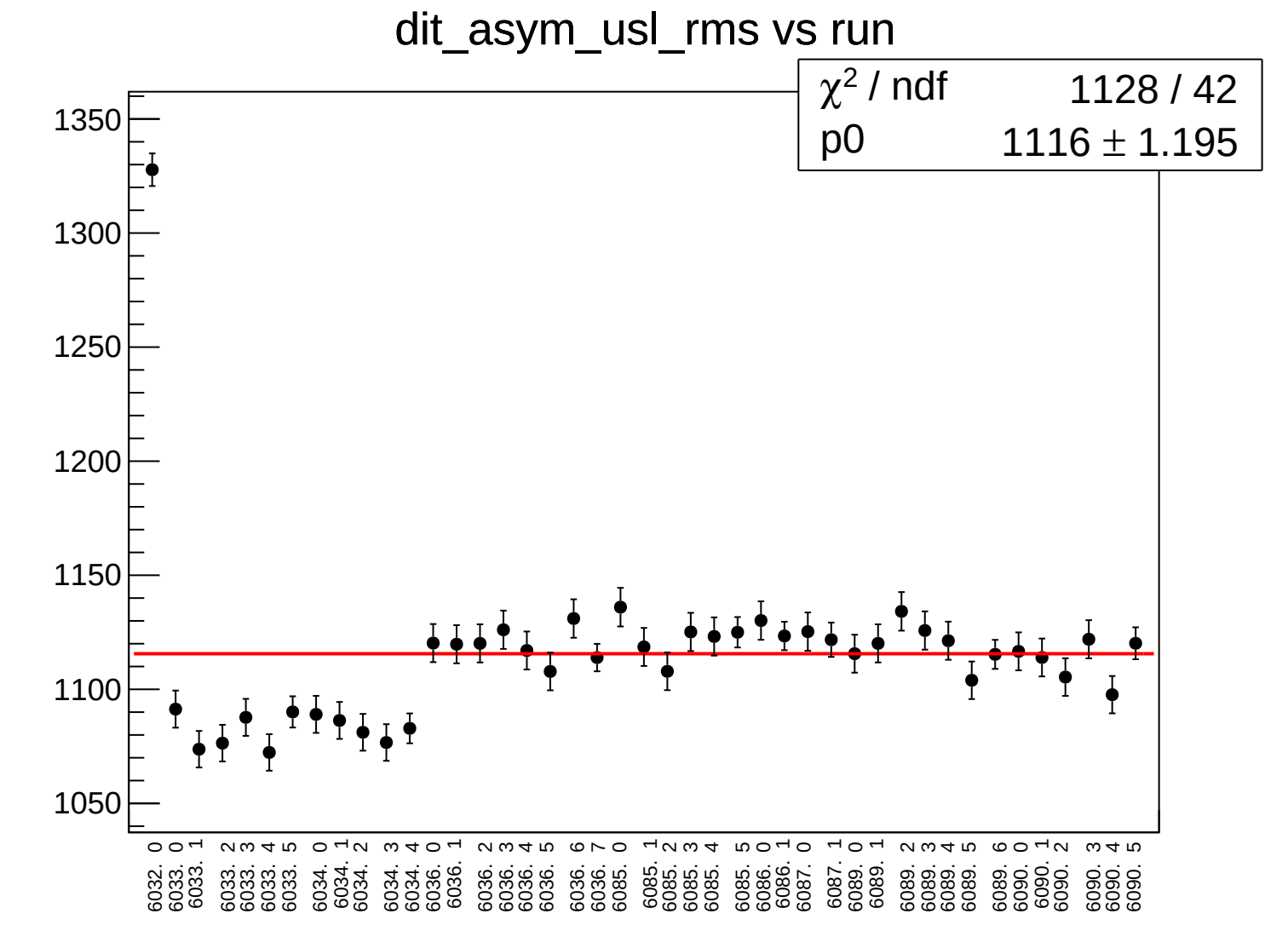

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 54.1 / 42
p0 −421 ± 986.1
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −618.2
Std Dev 0
2
1
0
−1
−2

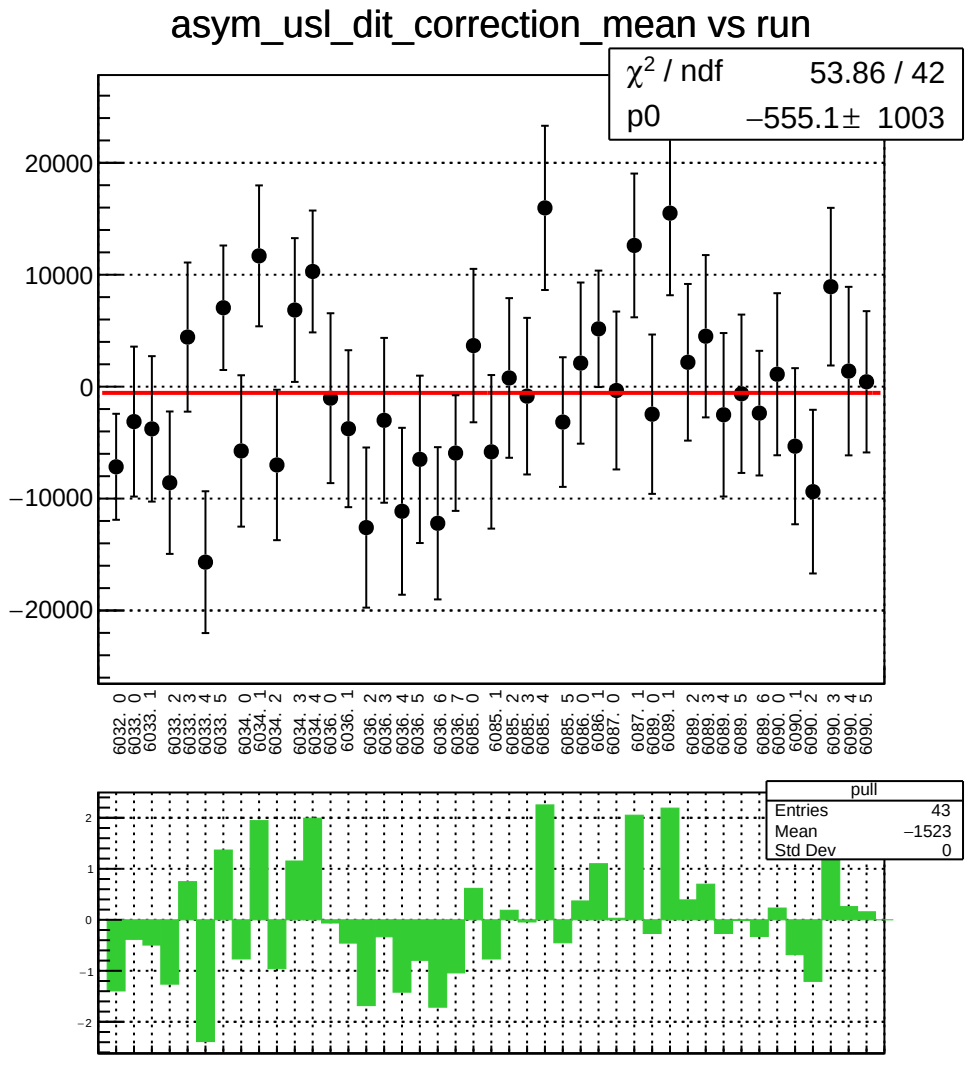

pull1D
Entries 43
Mean −0.004832
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

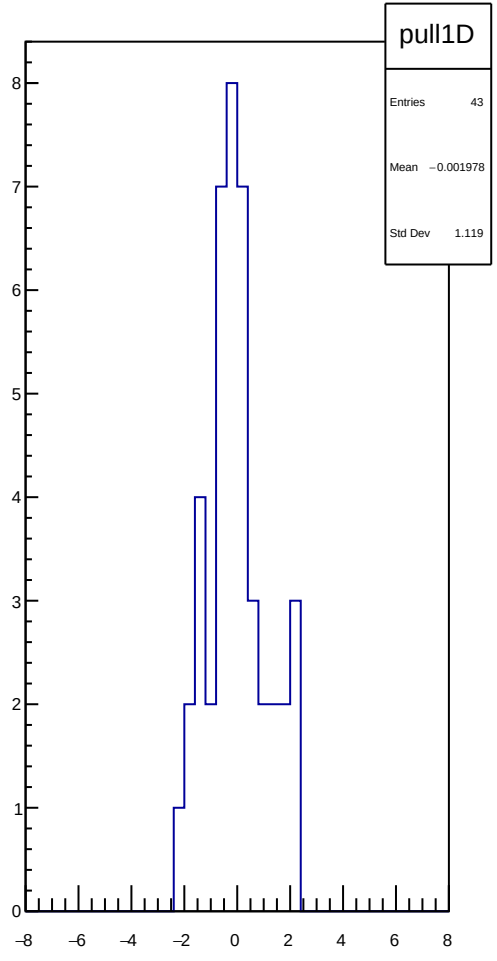

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2090 / 42
p0 650.8 ± 0.6973
720
700
680
660
640
620
600
580
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

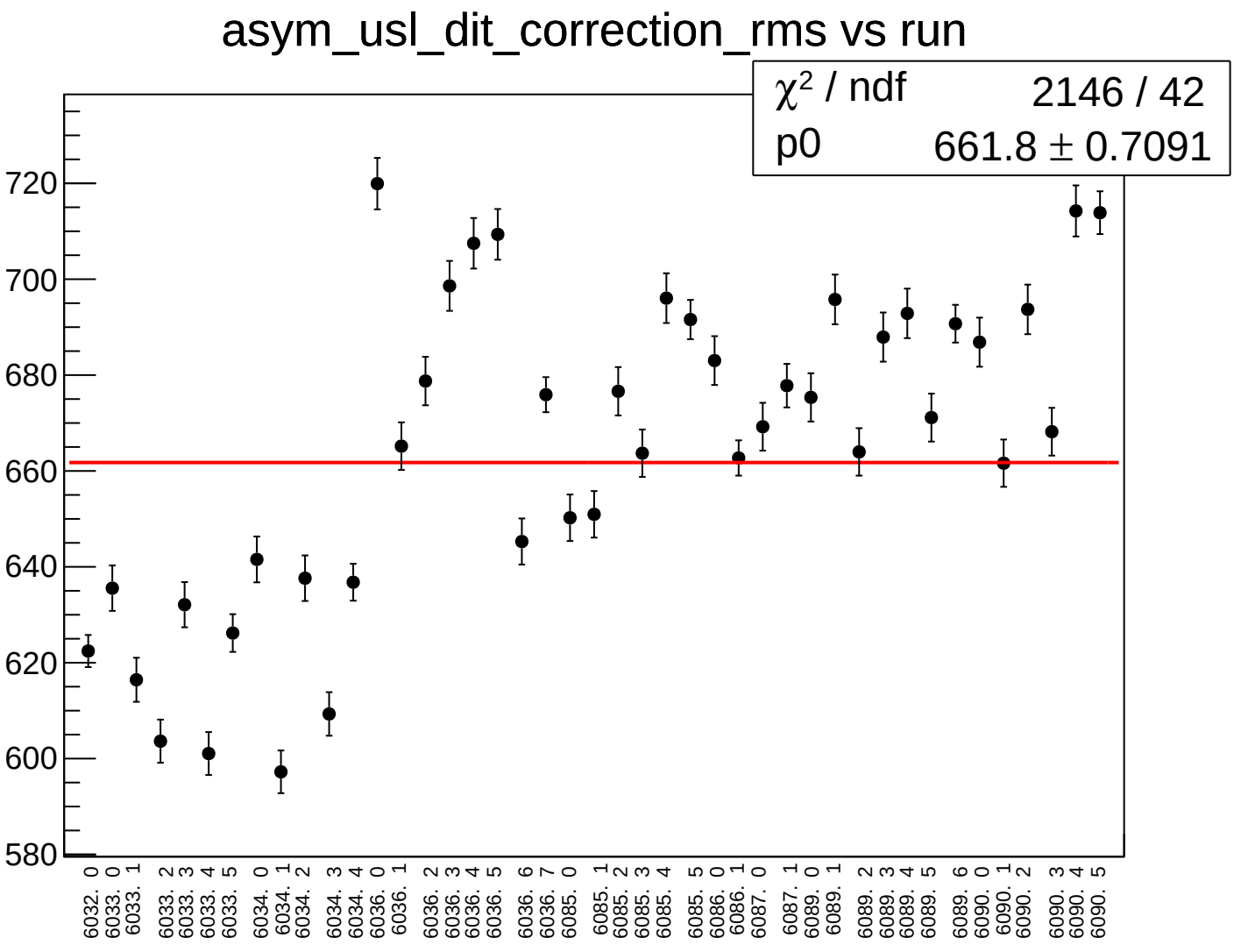

dit_asym_usl_mean vs run
χ² / ndf 35.66 / 42
p0 −229.9 ± 1690
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

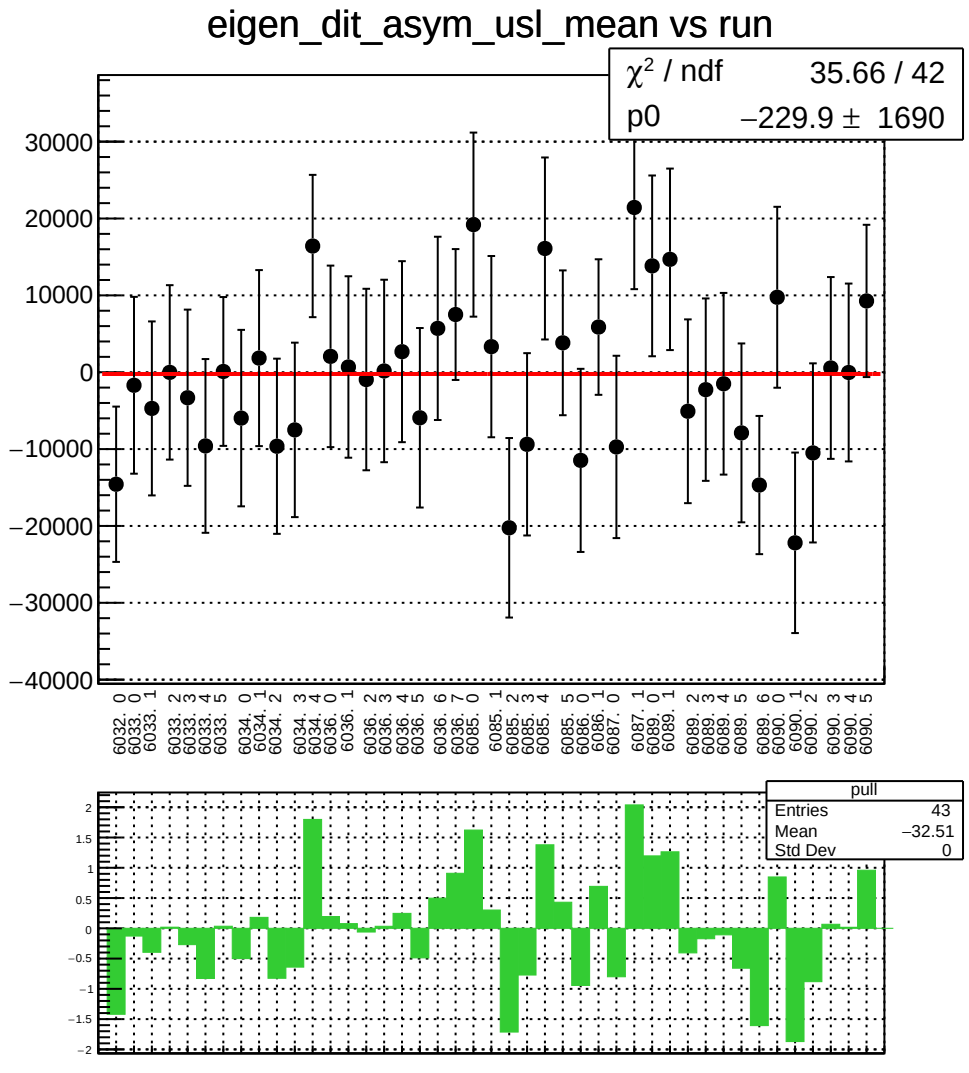

pull1D
Entries 43
Mean −0.0158
Std Dev 0.9105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

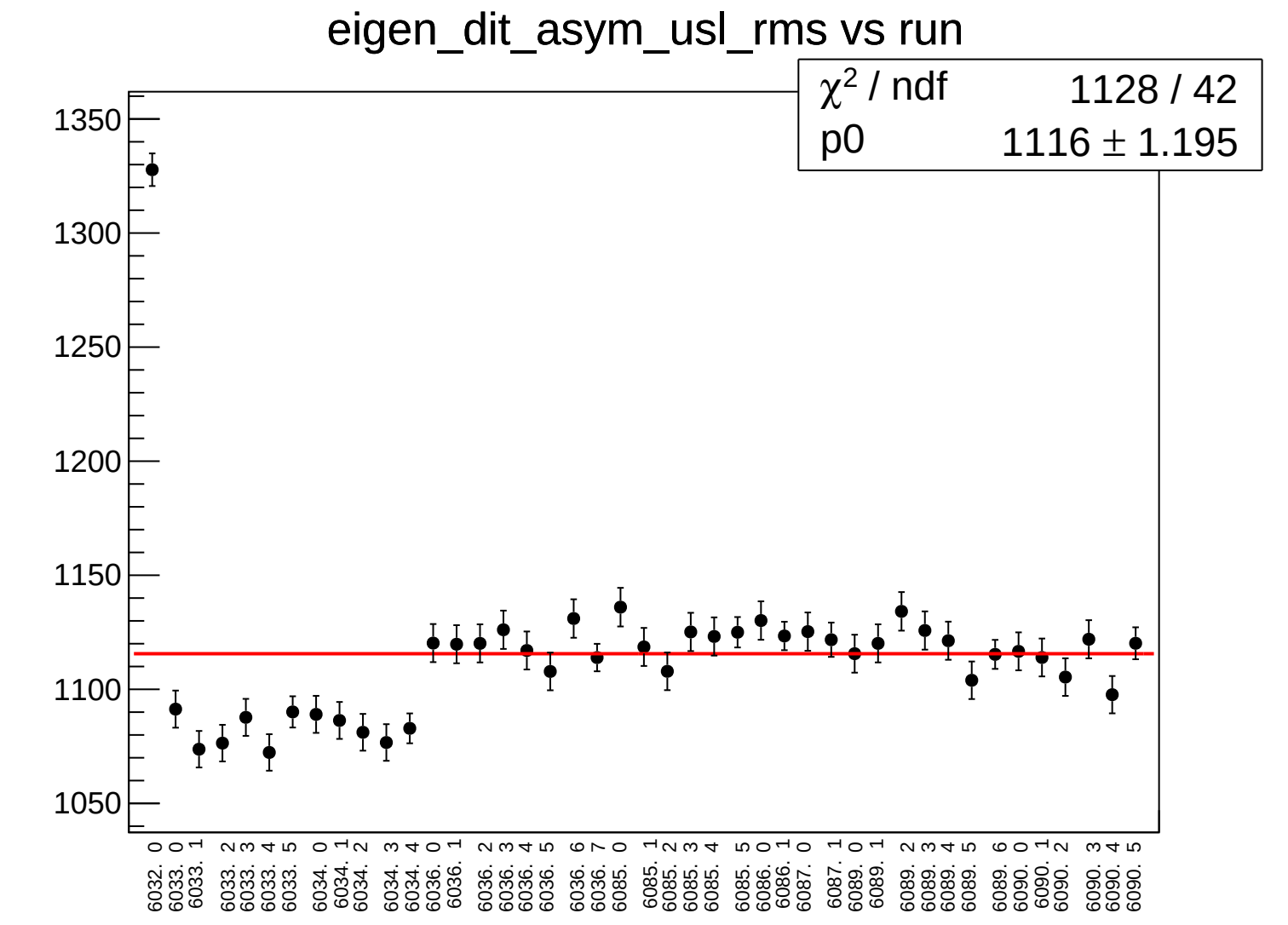

dit_asym_usl_rms vs run
χ² / ndf 1128 / 42
p0 1116 ± 1.195
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

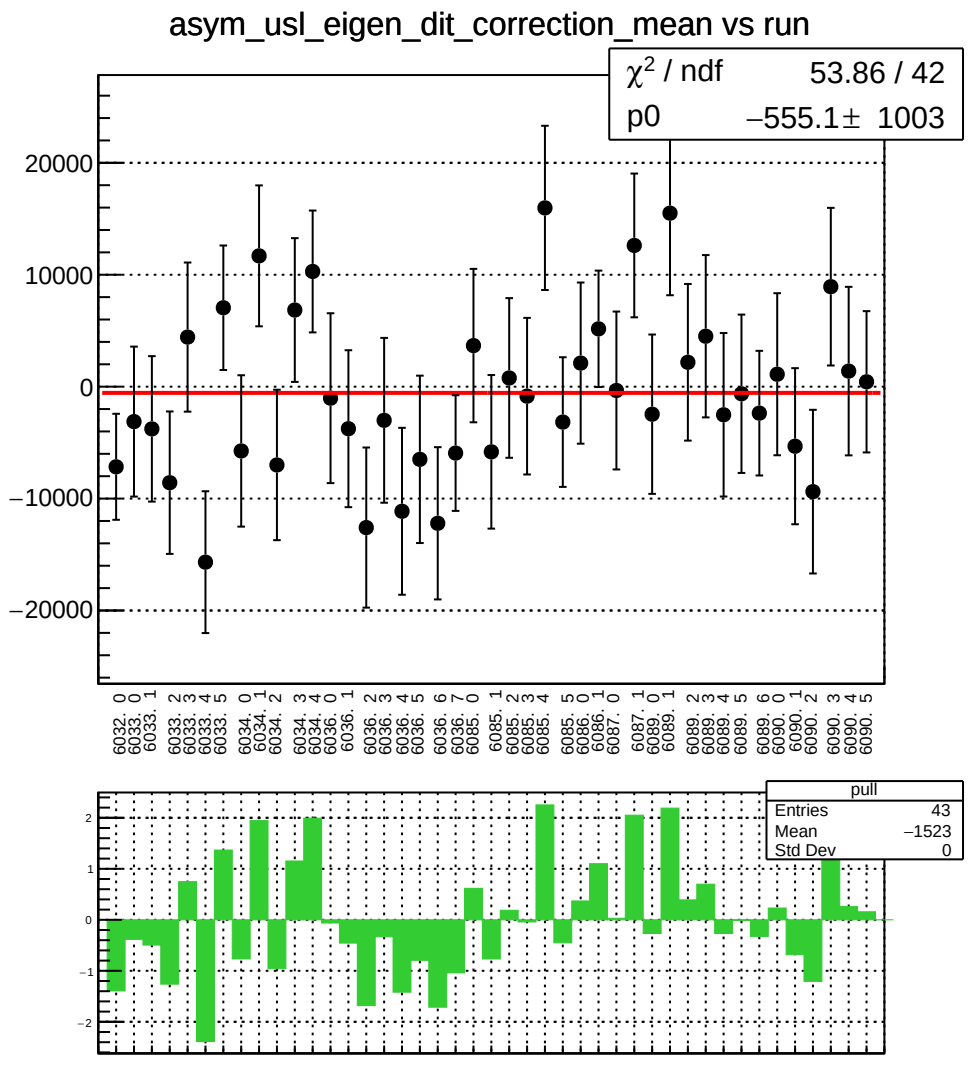

asym_usl_dit_correction_mean vs run
χ² / ndf 53.86 / 42
p0 −555.1± 1003
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1523
Std Dev 0
2
1
0
−1
−2

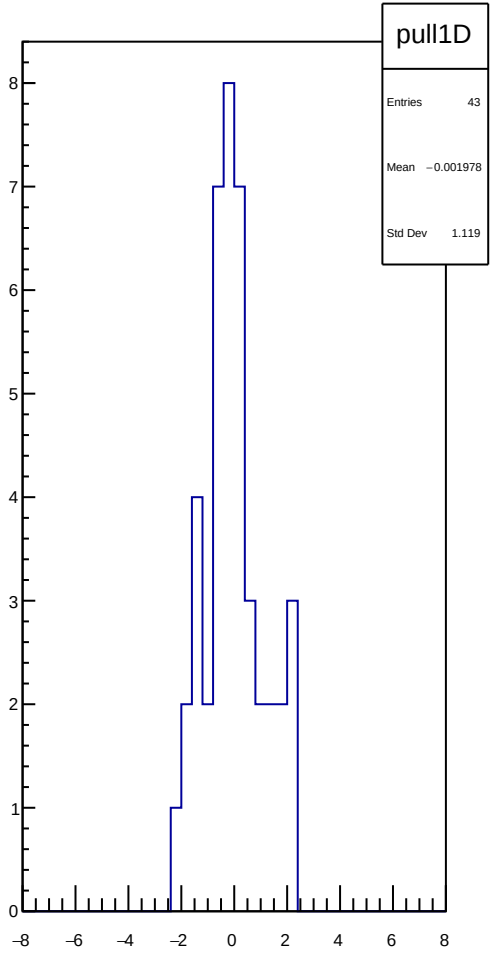

pull1D
Entries 43
Mean −0.001978
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

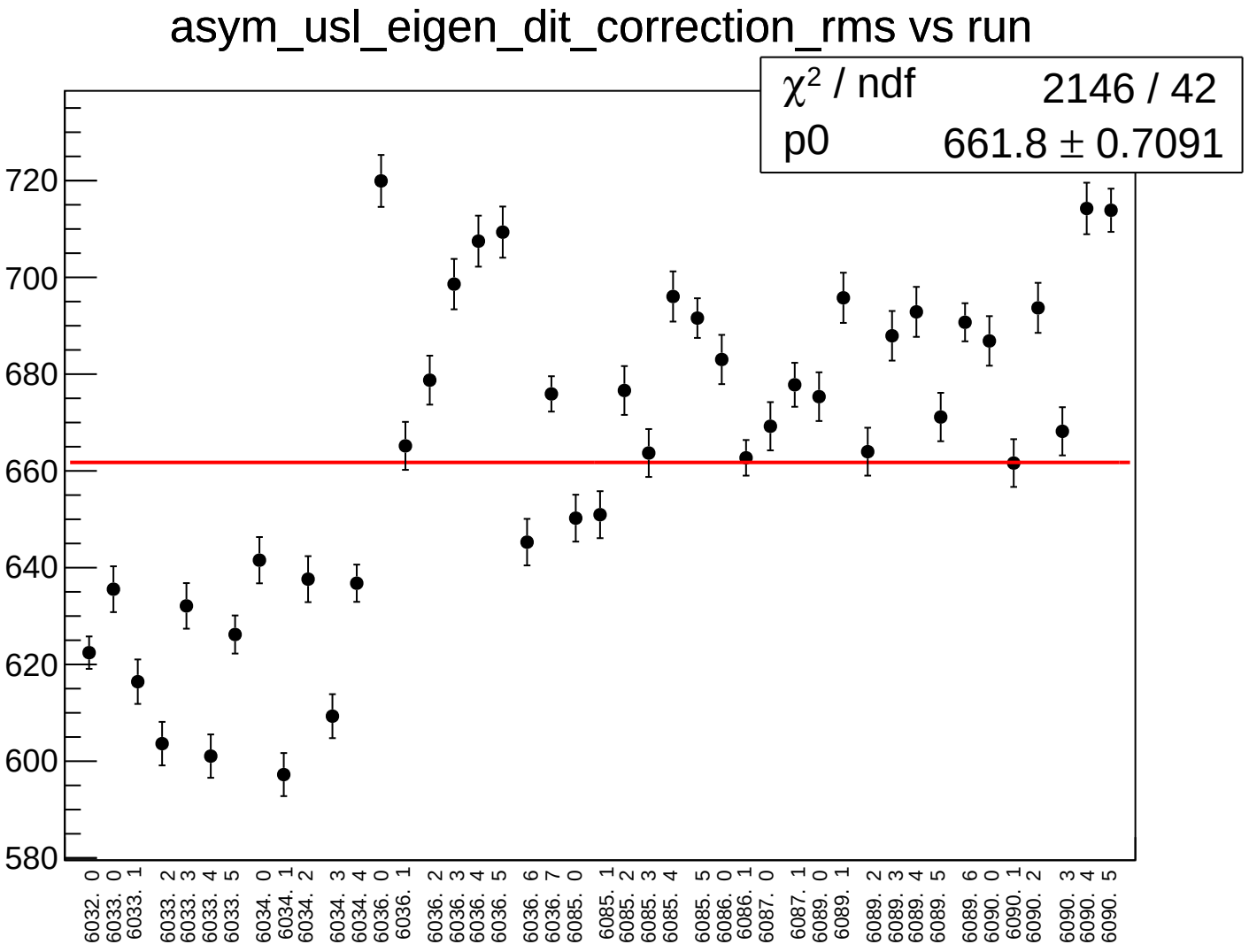

asym_usl_dit_correction_rms vs run
χ² / ndf 2146 / 42
p0 661.8 ± 0.7091
720
700
680
660
640
620
600
580
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

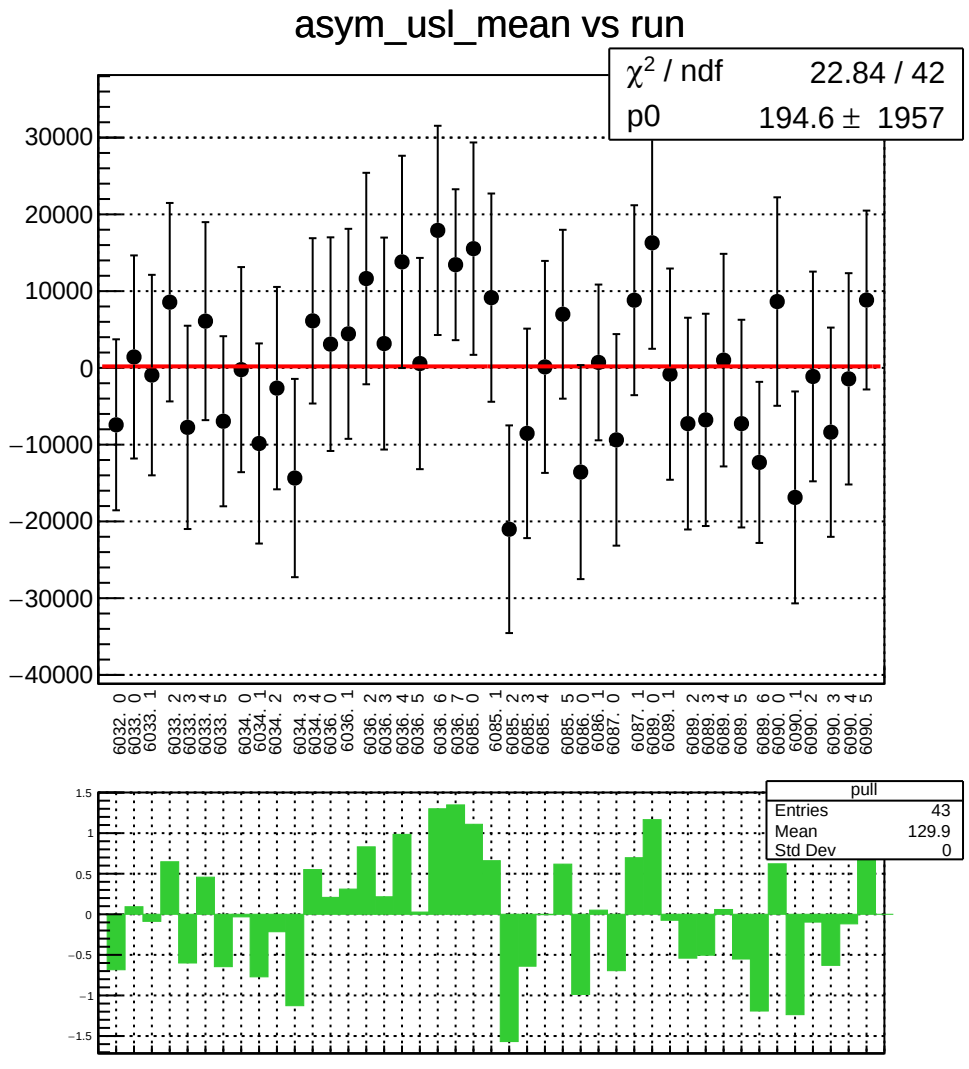

eigen_dit_asym_usl_mean vs run
χ² / ndf 35.66 / 42
p0 −229.9 ± 1690
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0158
Std Dev 0.9105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

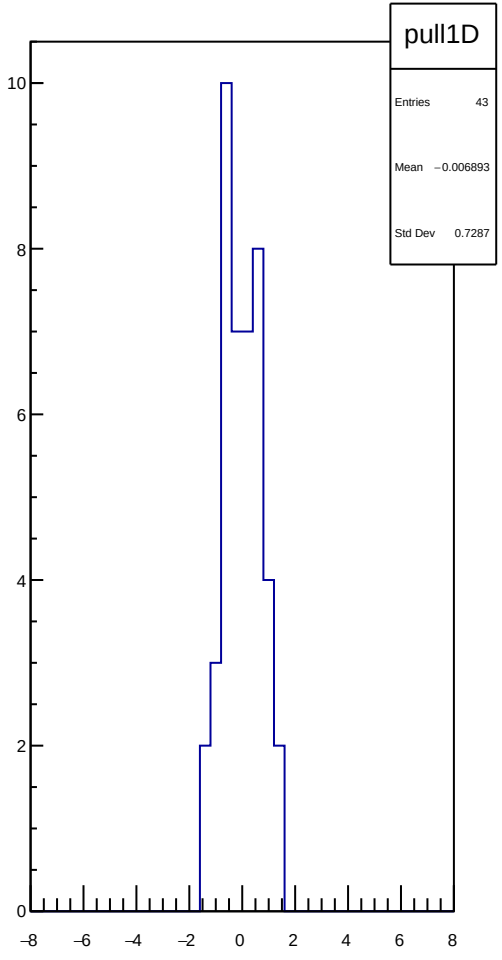

eigen_dit_asym_usl_rms vs run
χ² / ndf 1128 / 42
p0 1116 ± 1.195
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

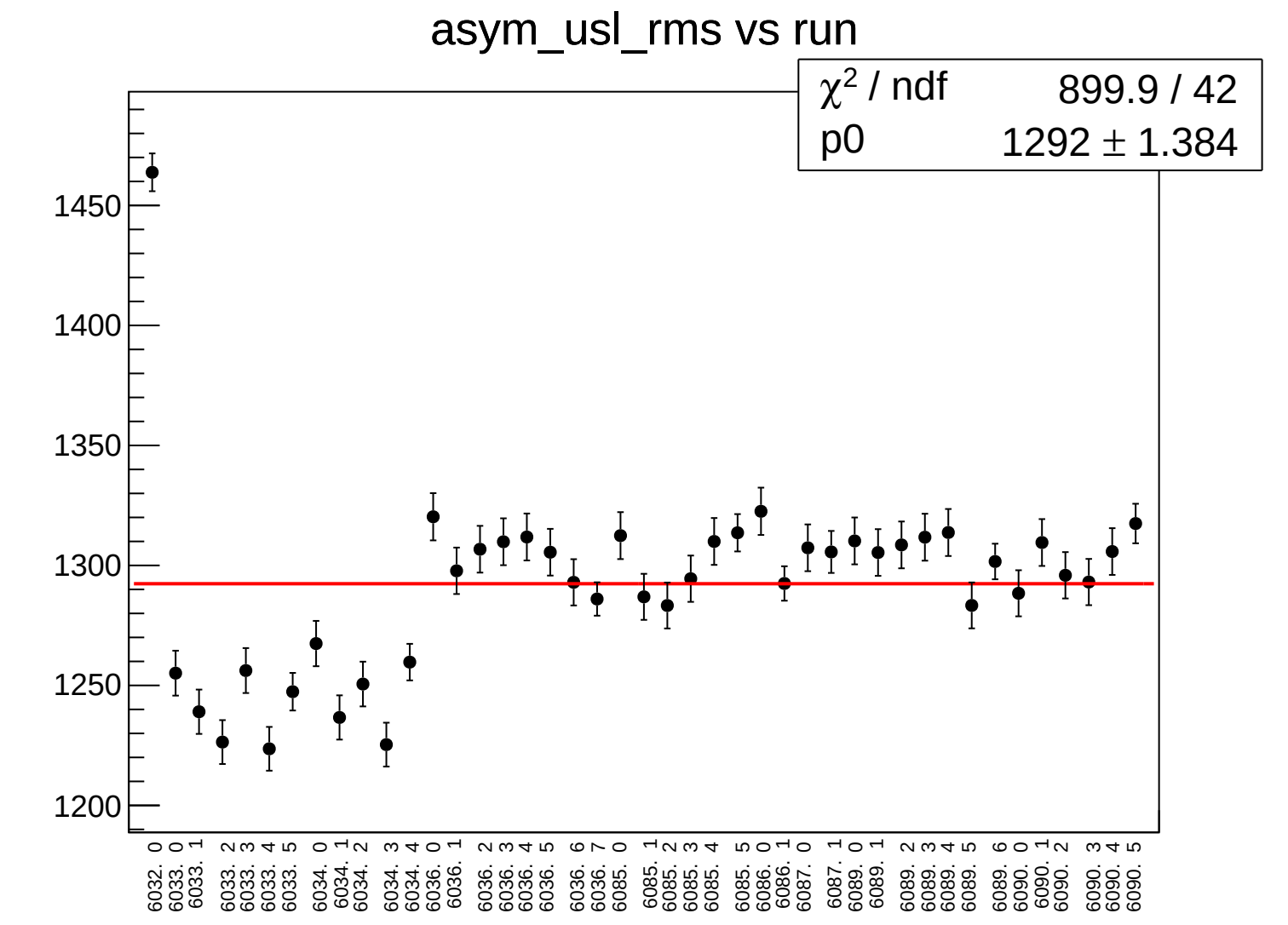

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 53.86 / 42
p0 −555.1± 1003
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1523
Std Dev 0
2
1
0
−1
−2

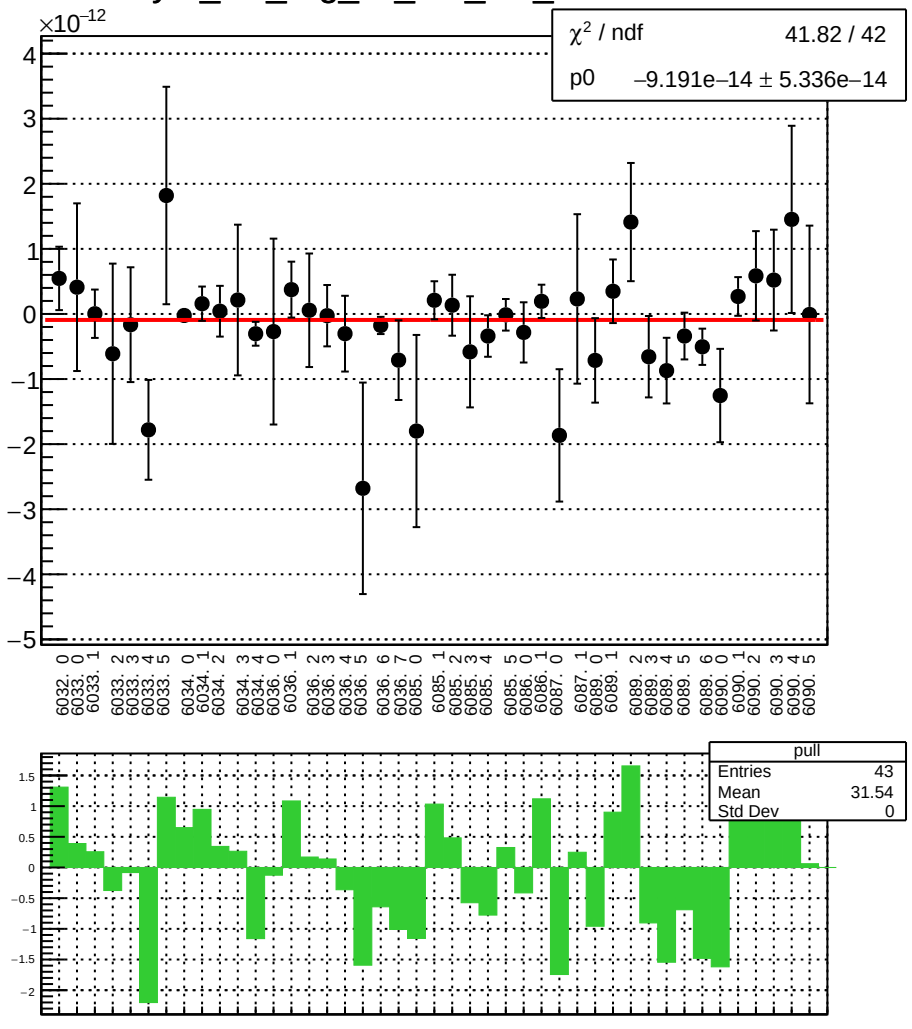

pull1D
Entries 43
Mean −0.001978
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

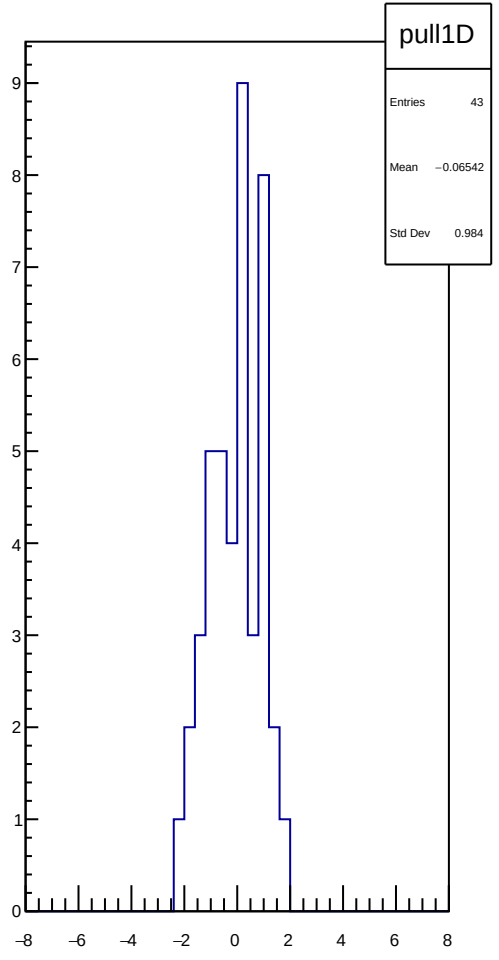

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2146 / 42
p0 661.8 ± 0.7091
720
700
680
660
640
620
600
580
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

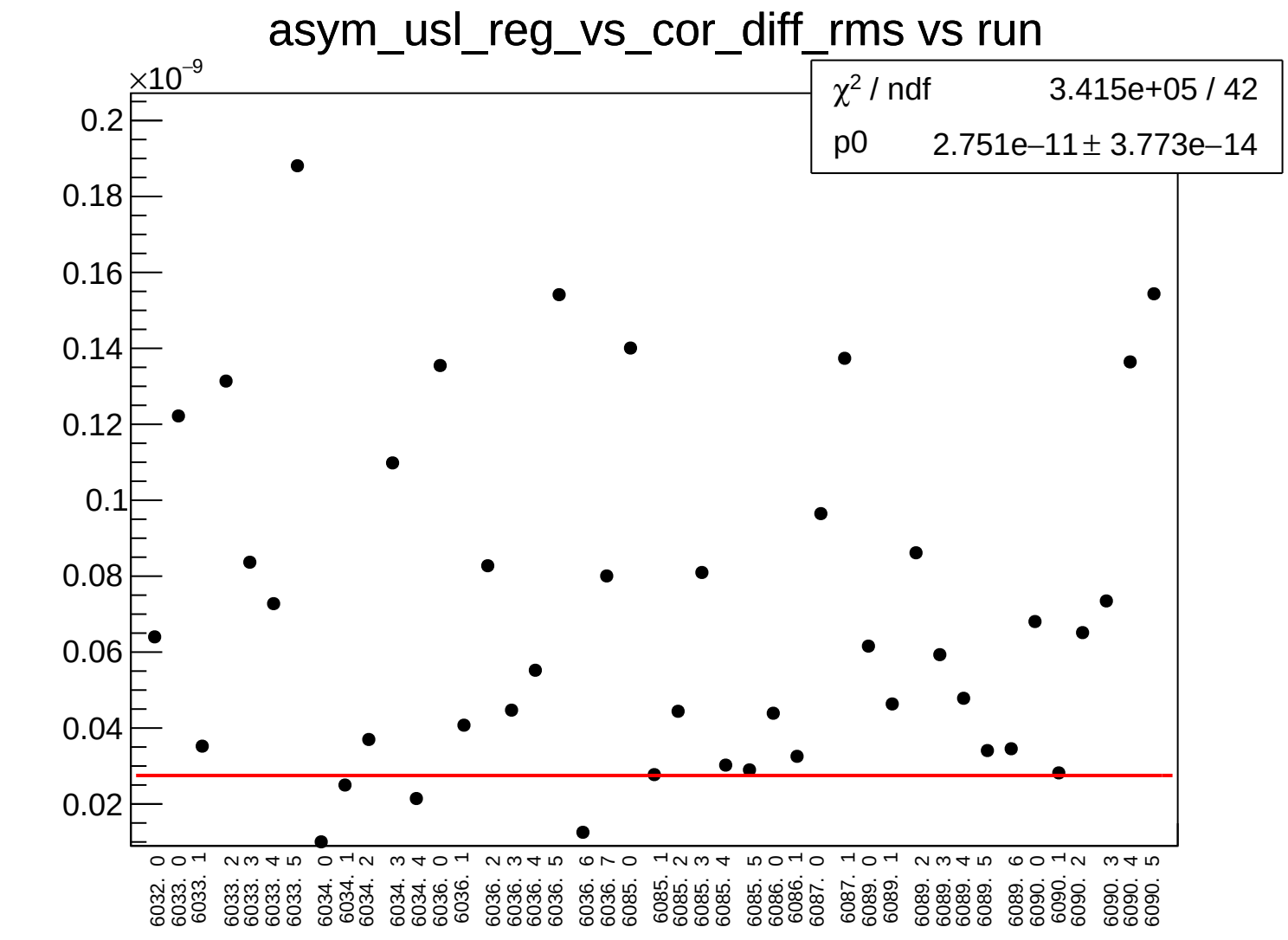

asym_usl_mean vs run
χ² / ndf 22.84 / 42
p0 194.6 ± 1957
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 129.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

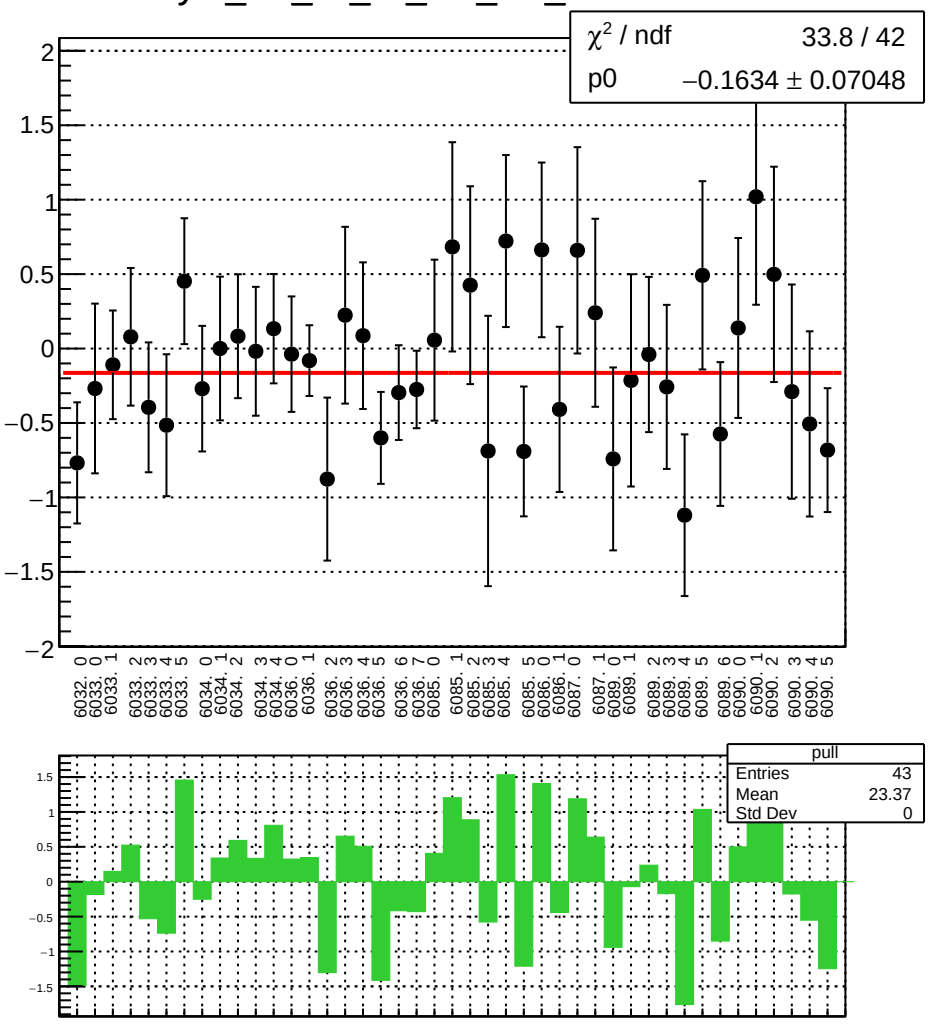

pull1D
Entries 43
Mean −0.006893
Std Dev 0.7287
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

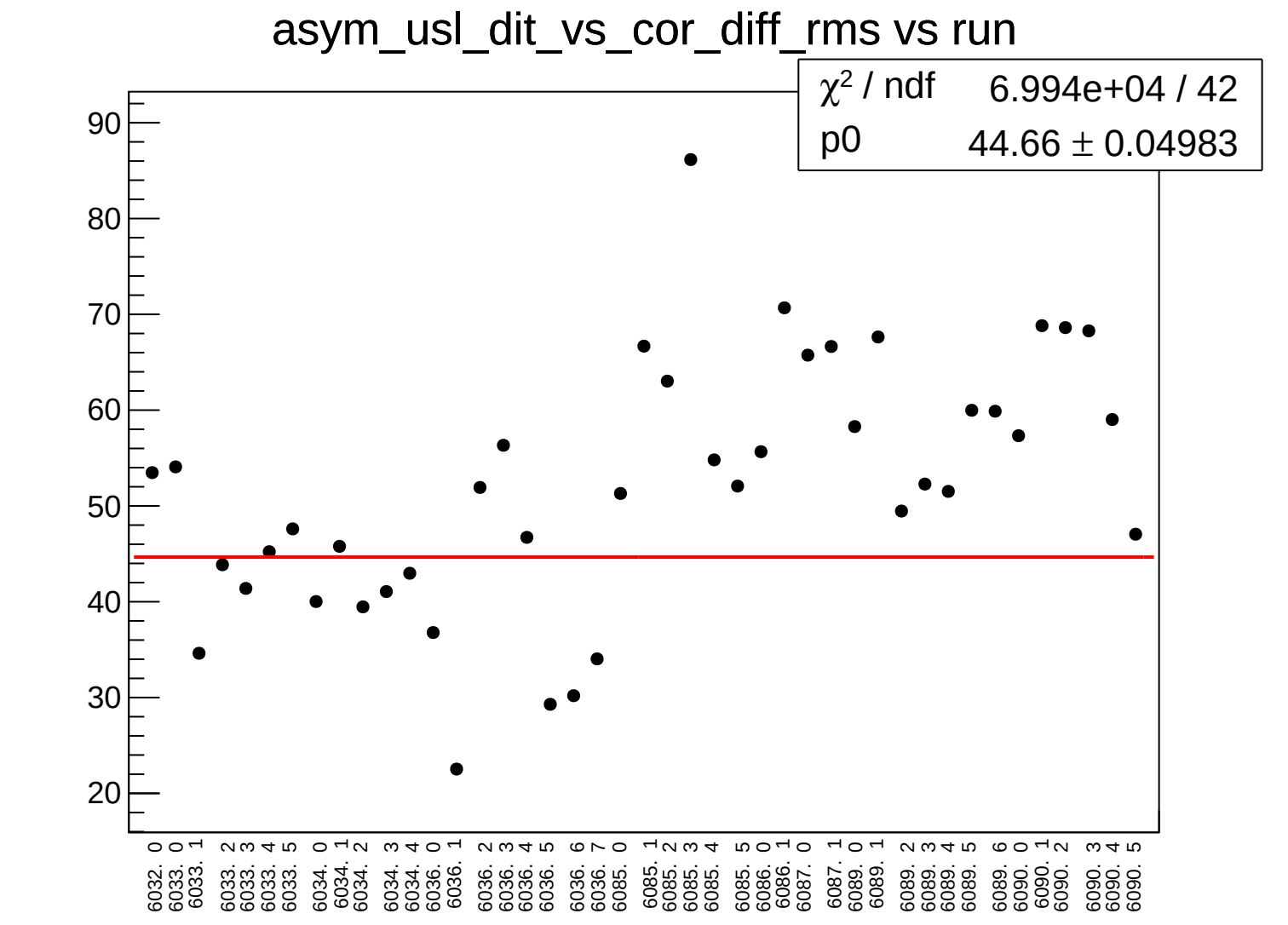

asym_usl_rms vs run
χ² / ndf 899.9 / 42
p0 1292 ± 1.384
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

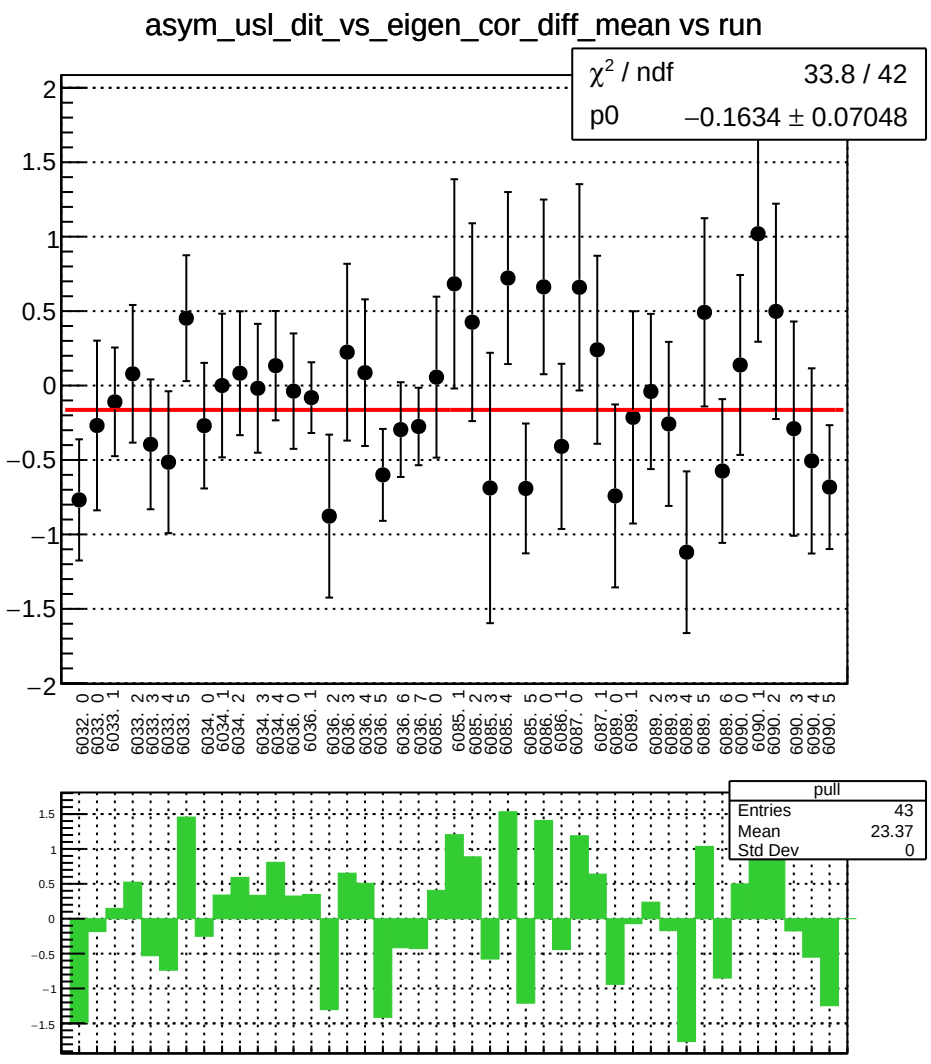

asym_usl_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 41.82 / 42
p0 −9.191e−14 ± 5.336e−14
pull
Entries 43
Mean 31.54
Std Dev 0

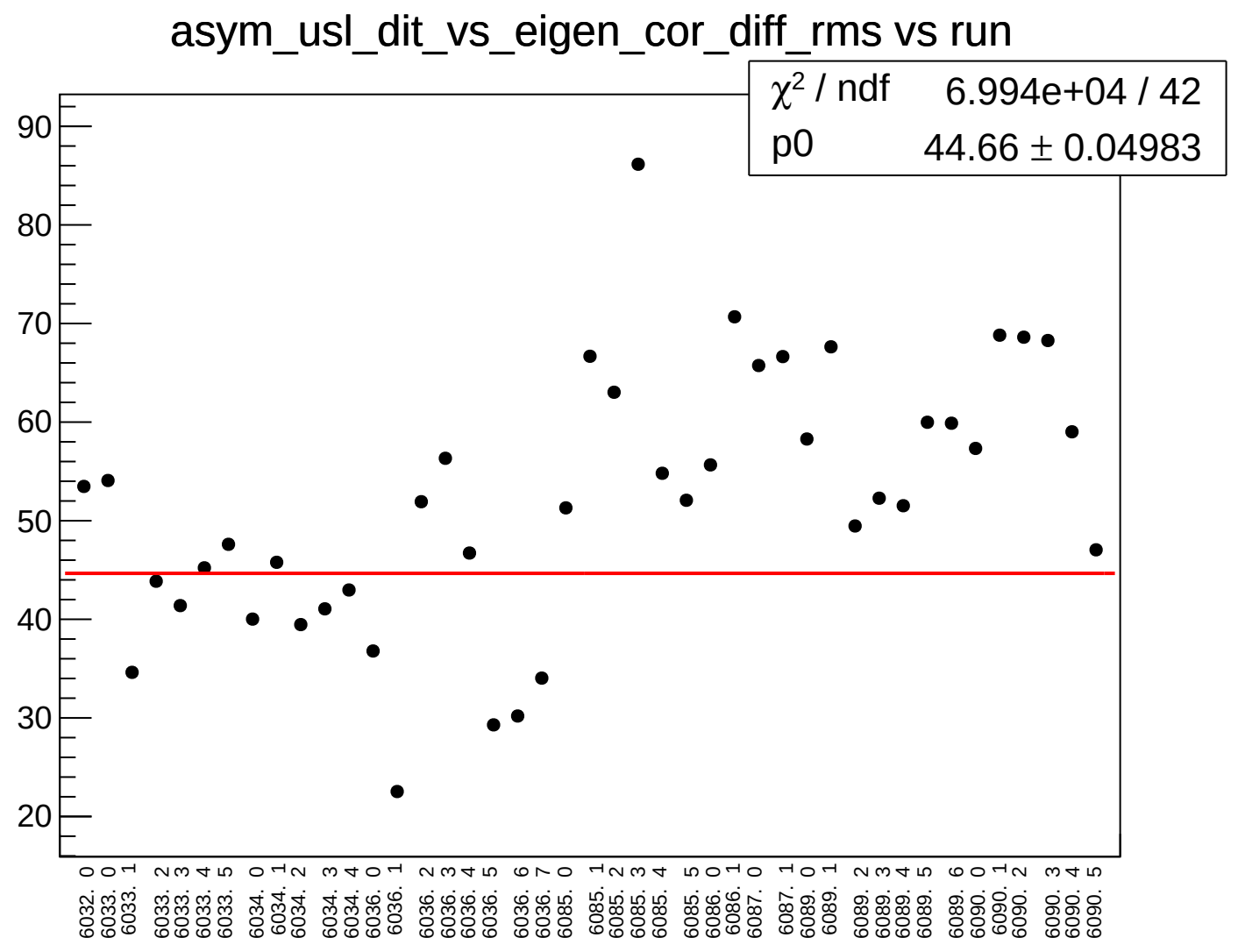

pull1D
Entries 43
Mean −0.06542
Std Dev 0.984

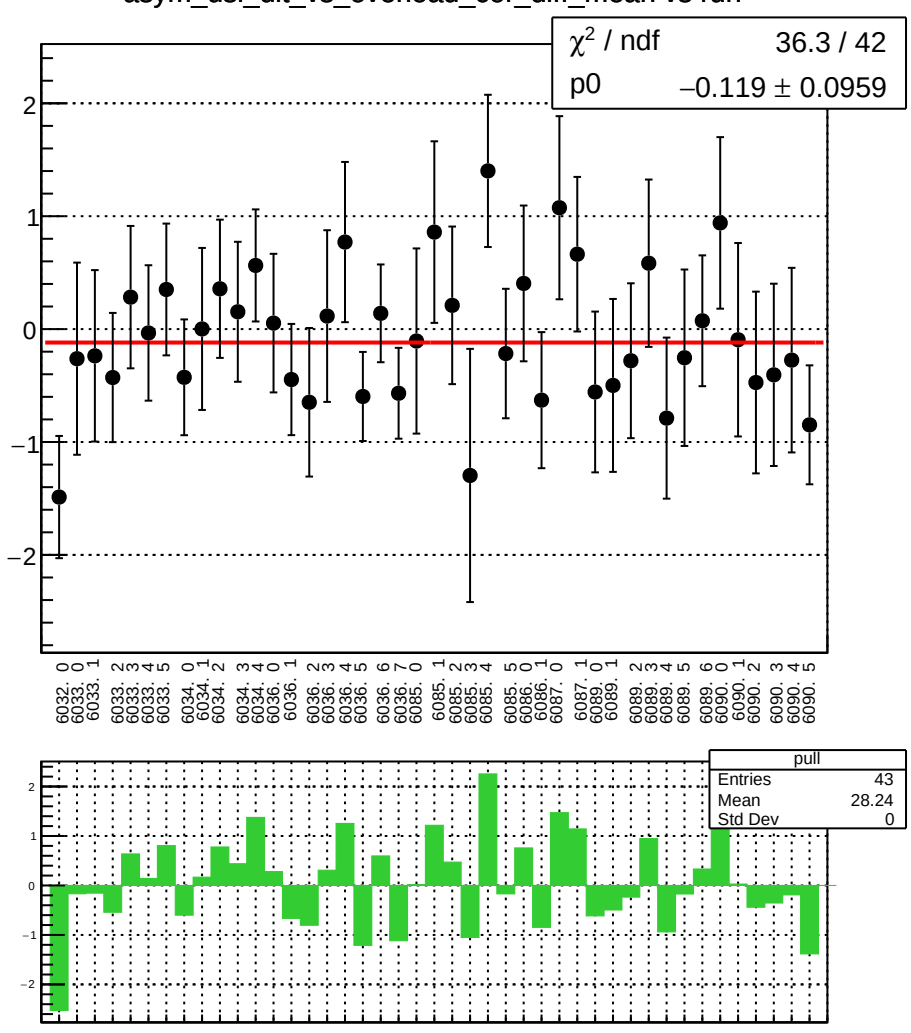

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.415e+05 / 42
p0 2.751e−11 ± 3.773e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

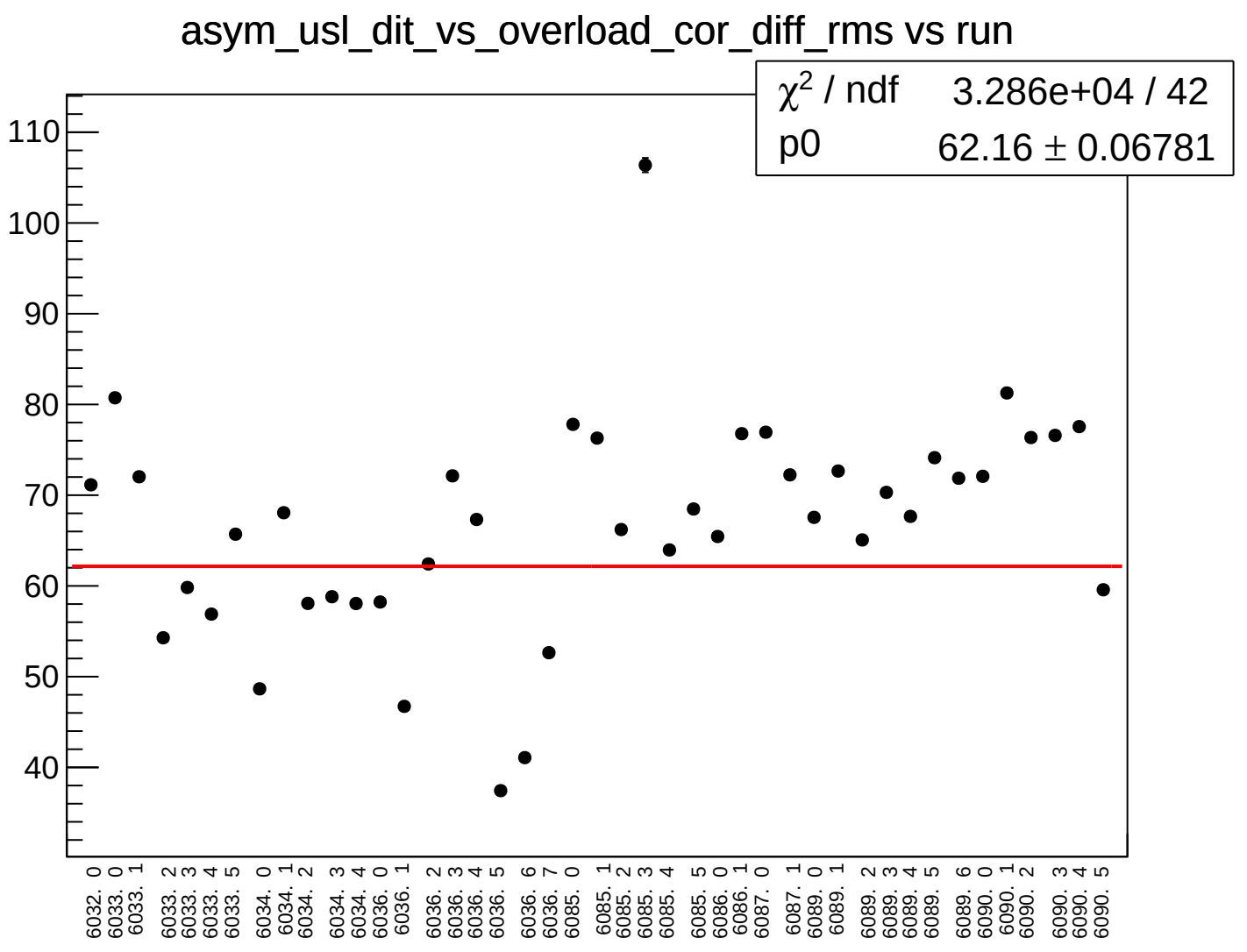

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 33.8 / 42
p0 −0.1634 ± 0.07048
pull
Entries 43
Mean 23.37
Std Dev 0
pull1D
Entries 43
Mean 0.06681
Std Dev 0.8841

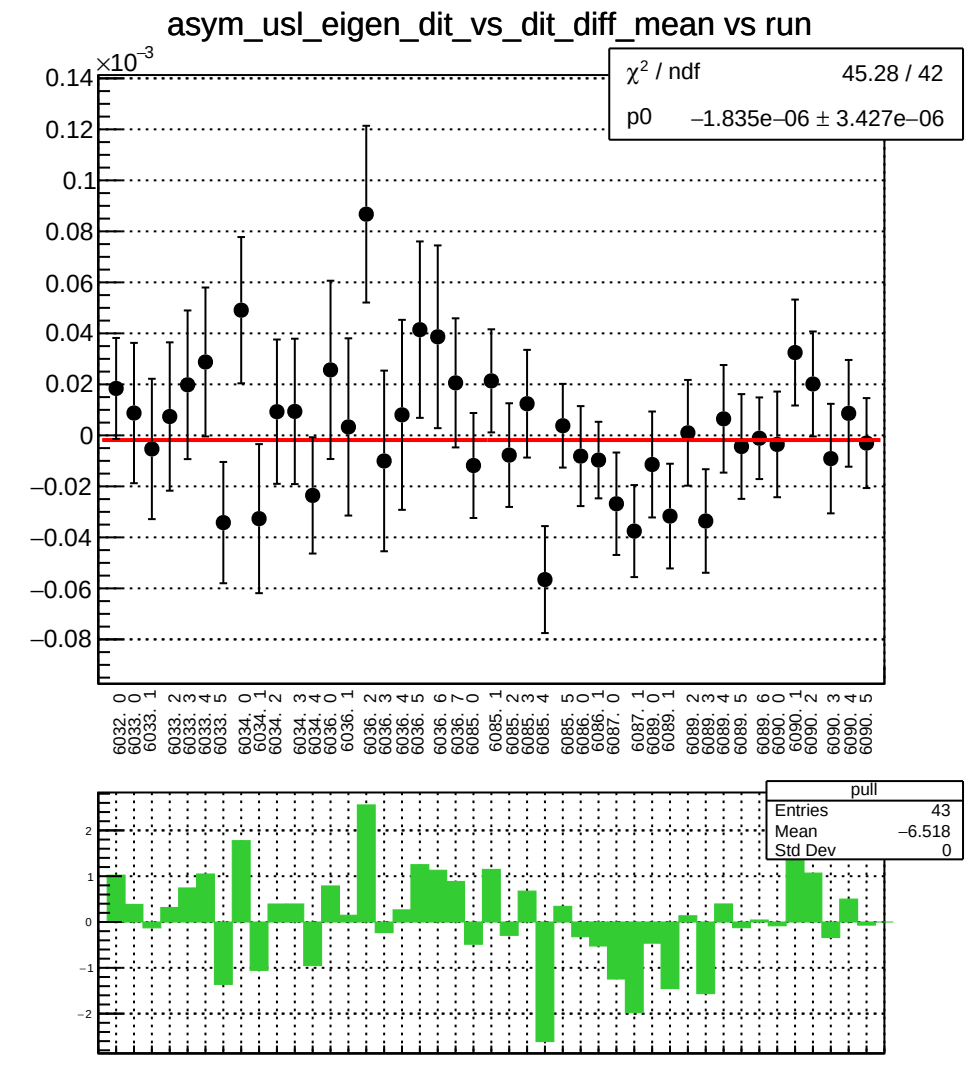

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 6.994e+04 / 42
p0 44.66 ± 0.04983
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

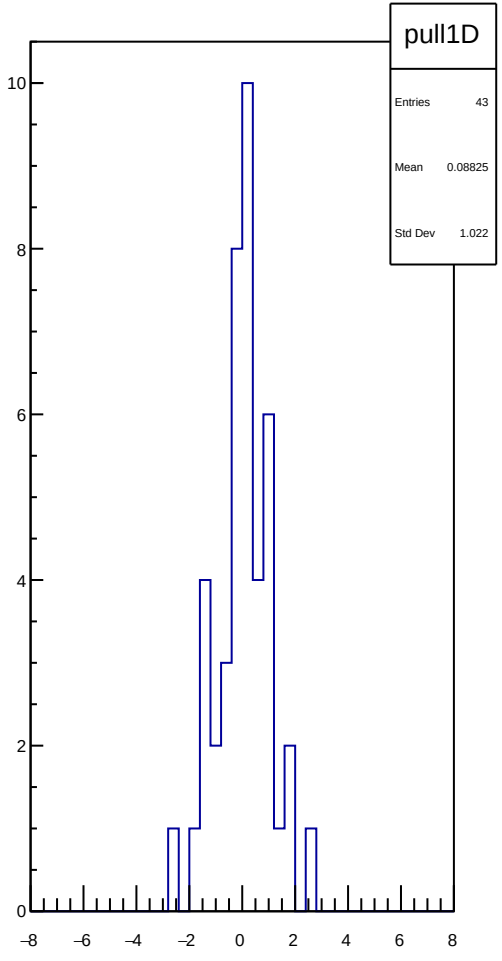

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.8 / 42
p0 −0.1634 ± 0.07048
pull
Entries 43
Mean 23.37
Std Dev 0
pull1D
Entries 43
Mean 0.06681
Std Dev 0.8841

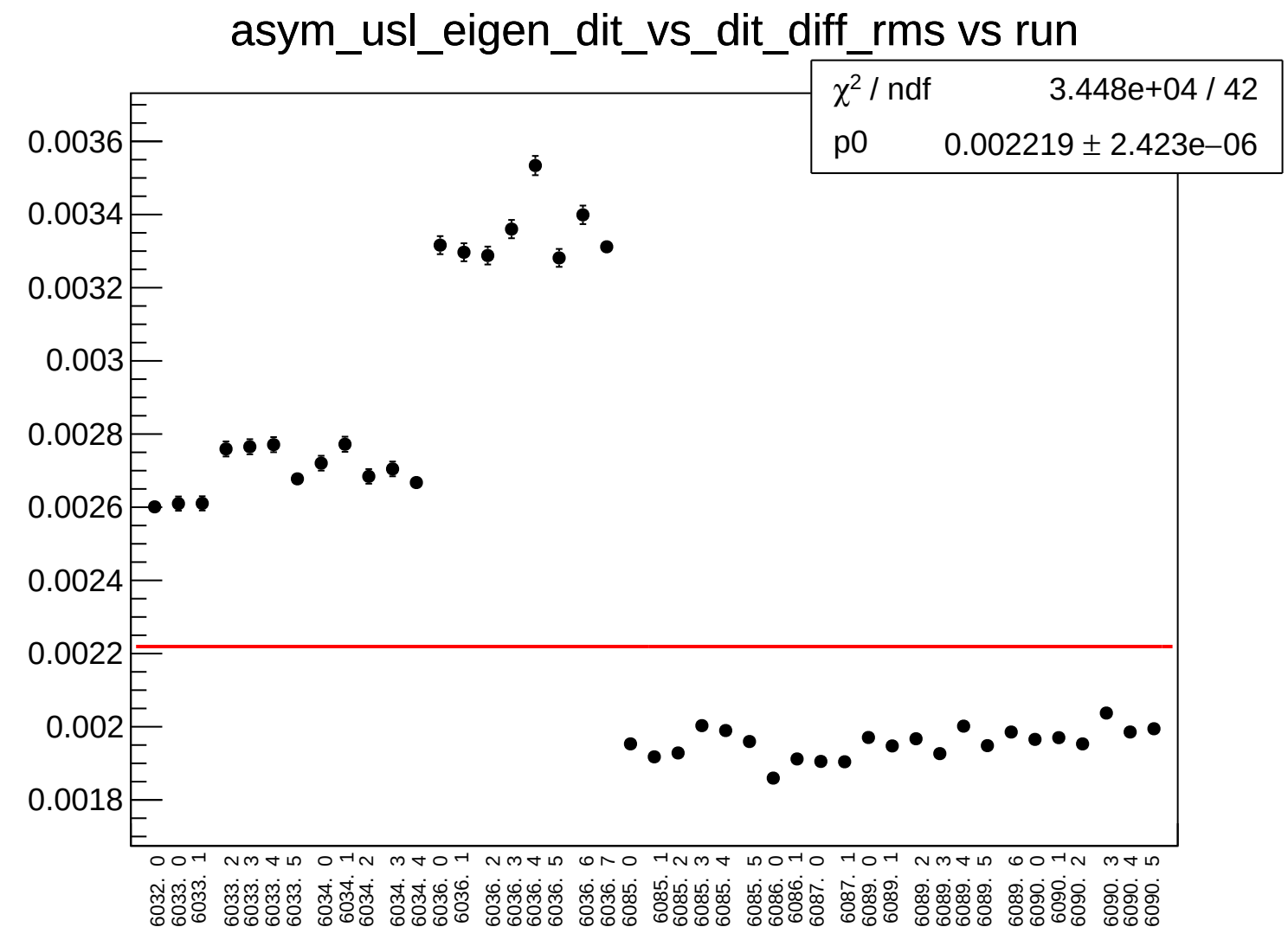

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.994e+04 / 42
p0 44.66 ± 0.04983
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 36.3 / 42
p0 −0.119 ± 0.0959
pull
Entries 43
Mean 28.24
Std Dev 0
pull1D
Entries 43
Mean 0.04974
Std Dev 0.9174

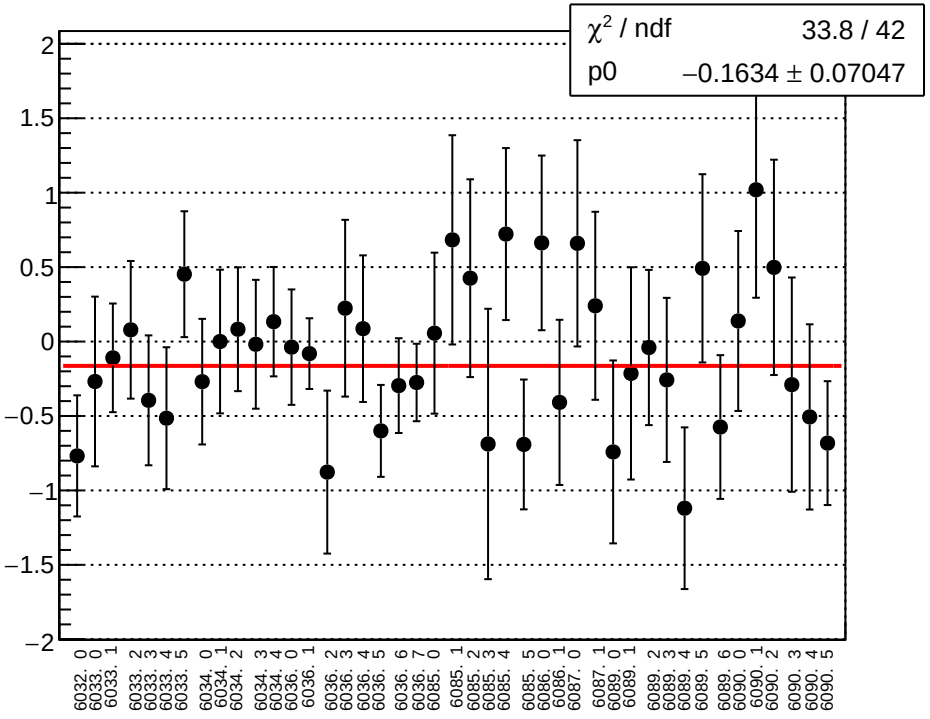

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.286e+04 / 42
p0 62.16 ± 0.06781
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

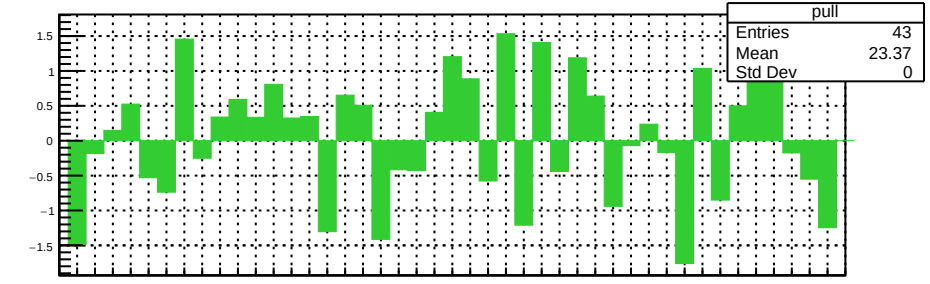

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.28 / 42
p0 −1.835e−06 ± 3.427e−06
pull
Entries 43
Mean −6.518
Std Dev 0

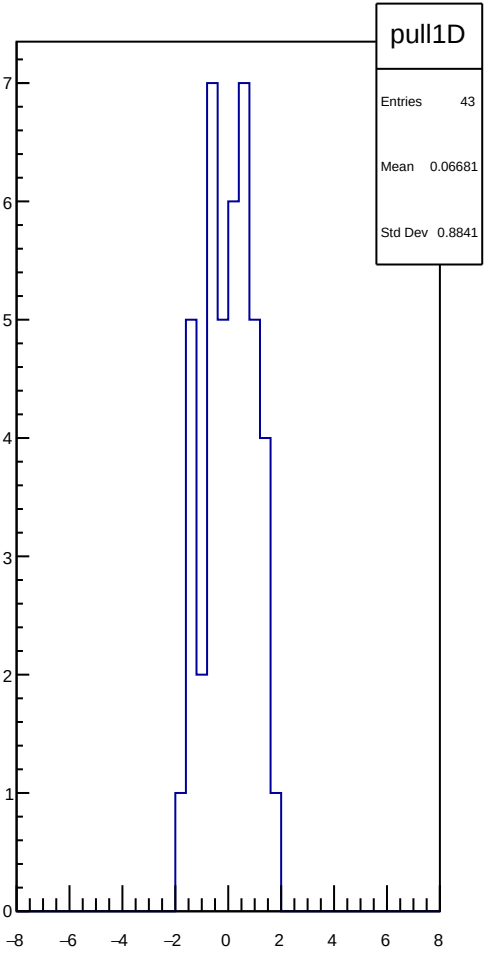

pull1D
Entries 43
Mean 0.08825
Std Dev 1.022

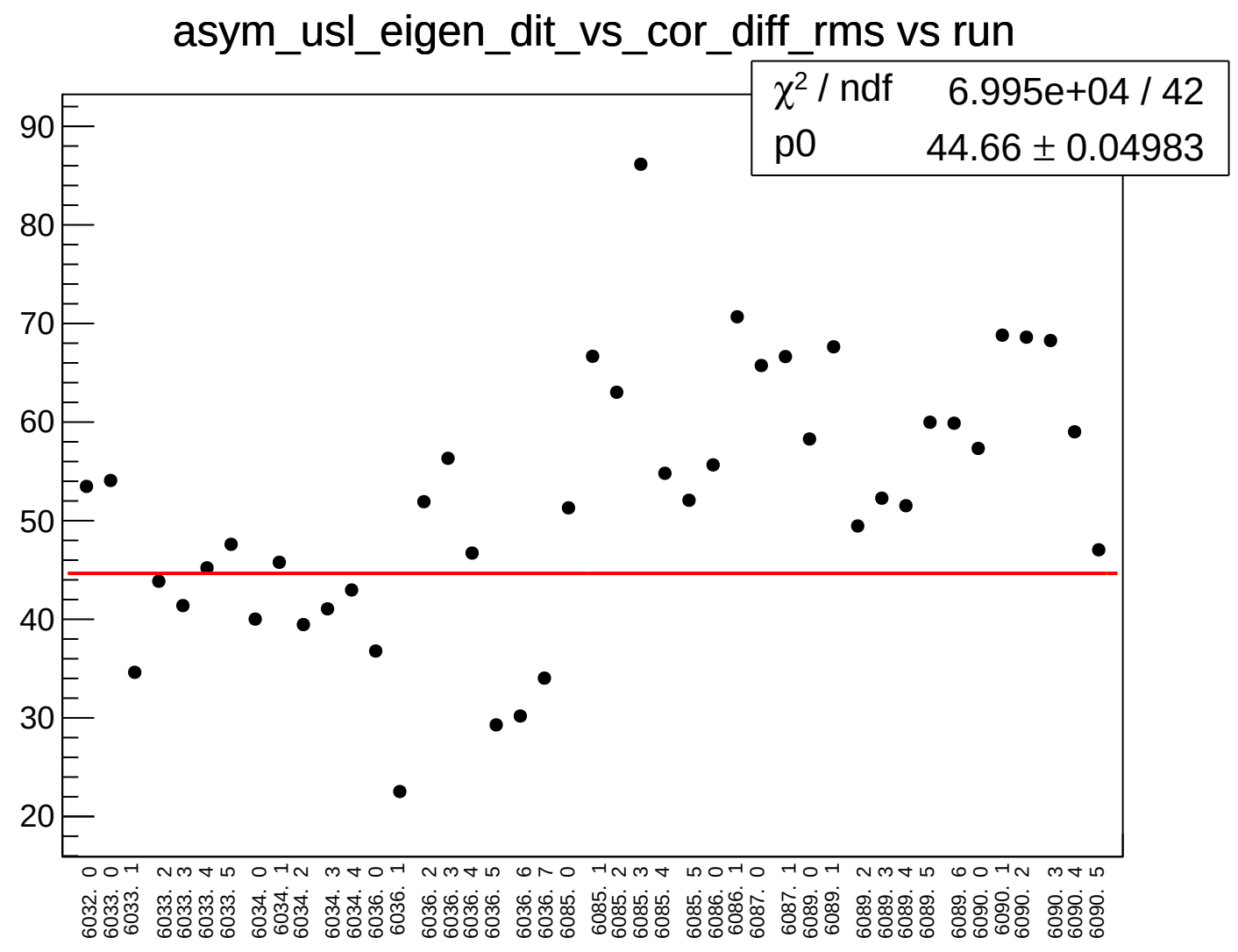

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.448e+04 / 42
p0 0.002219 ± 2.423e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

asym_usl_eigen_dit_vs_cor_diff_mean vs run

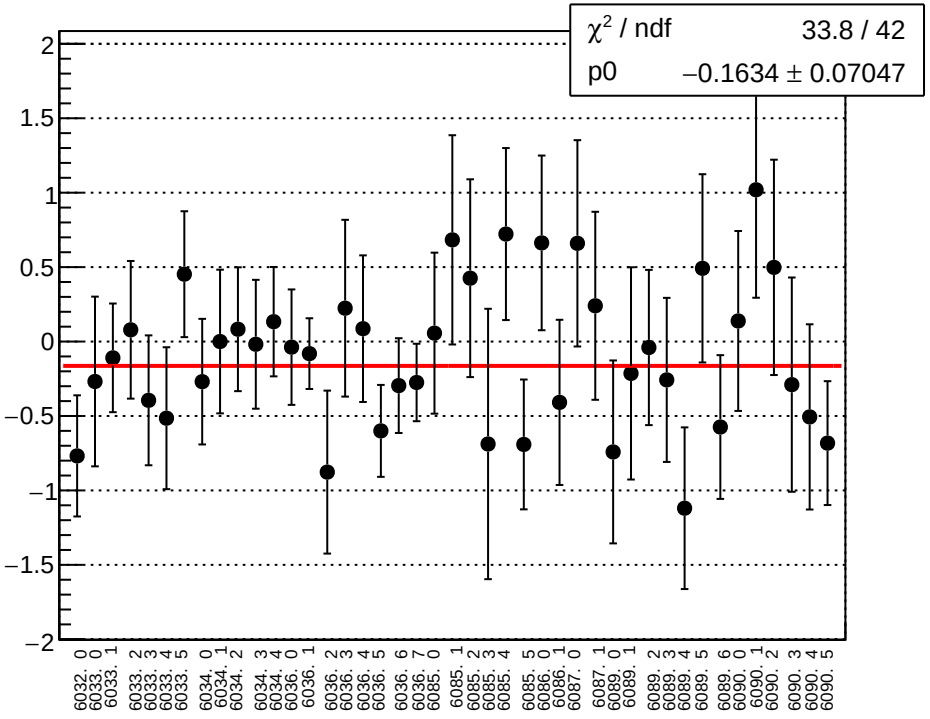


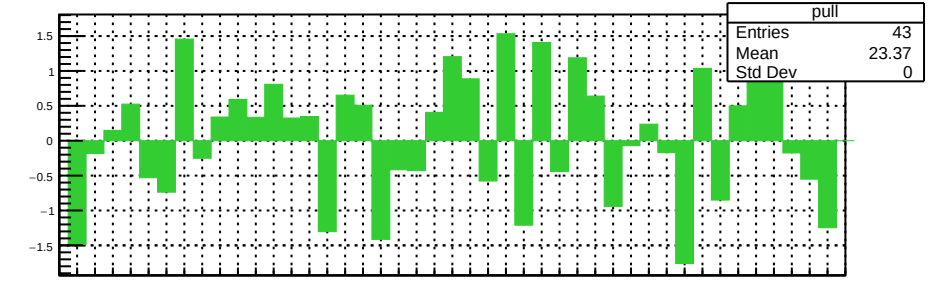


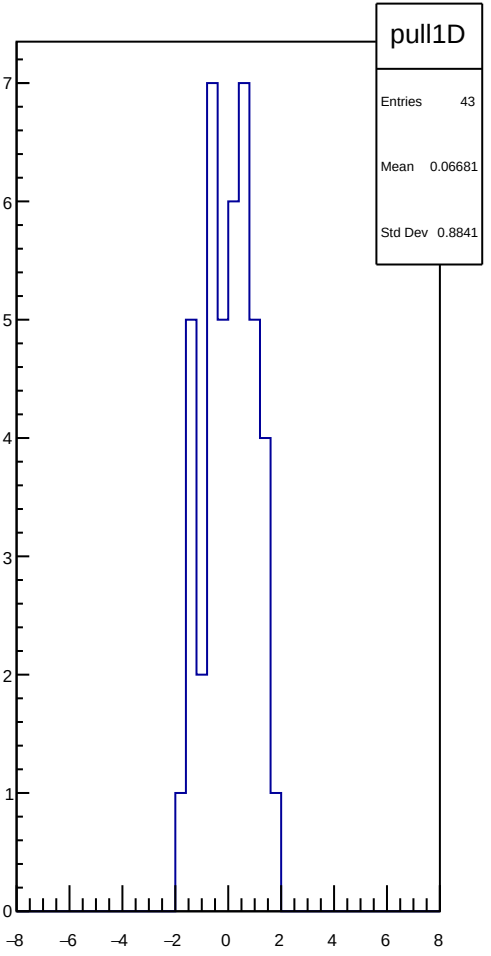


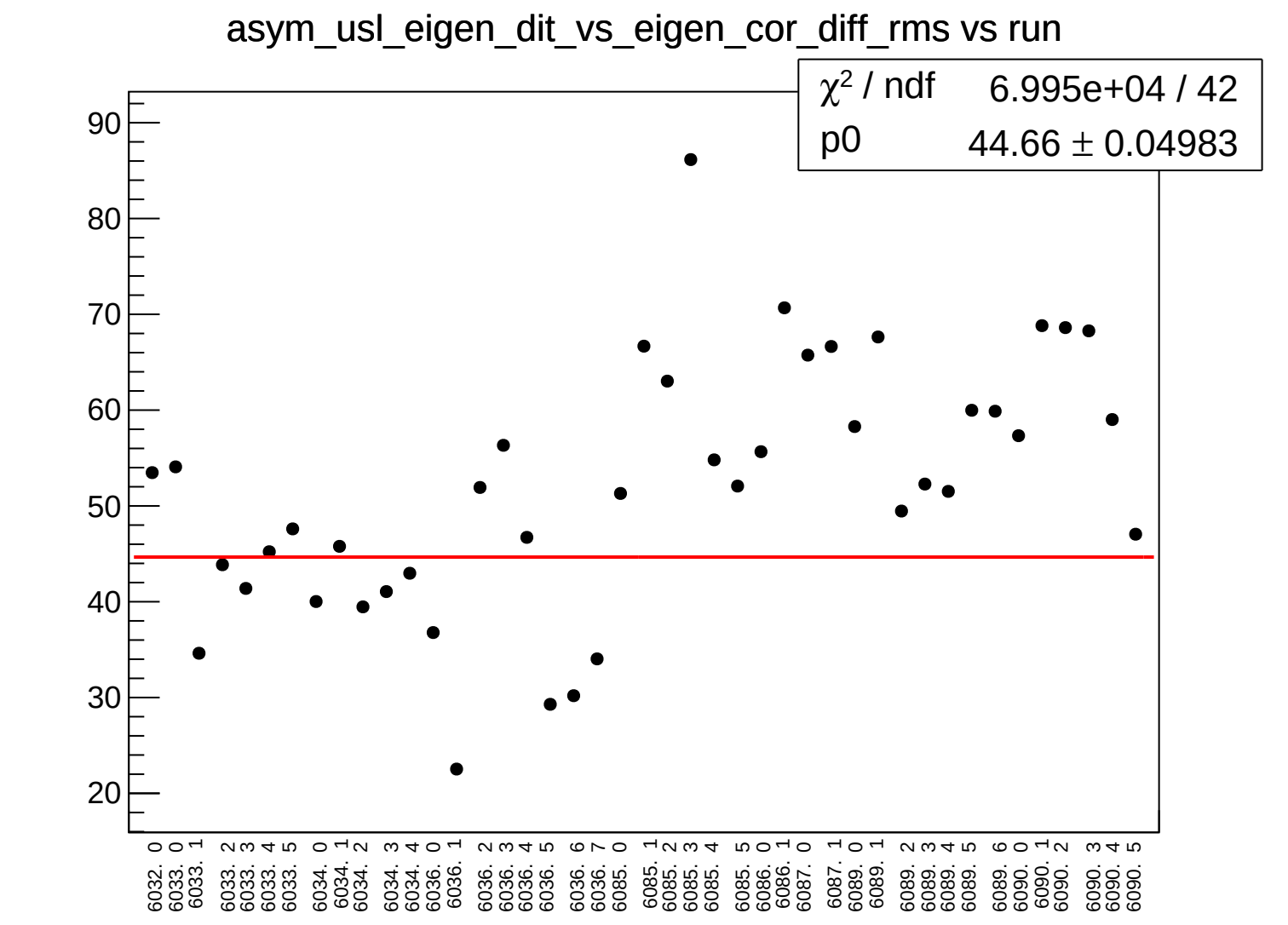

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.995e+04 / 42
p0 44.66 ± 0.04983
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

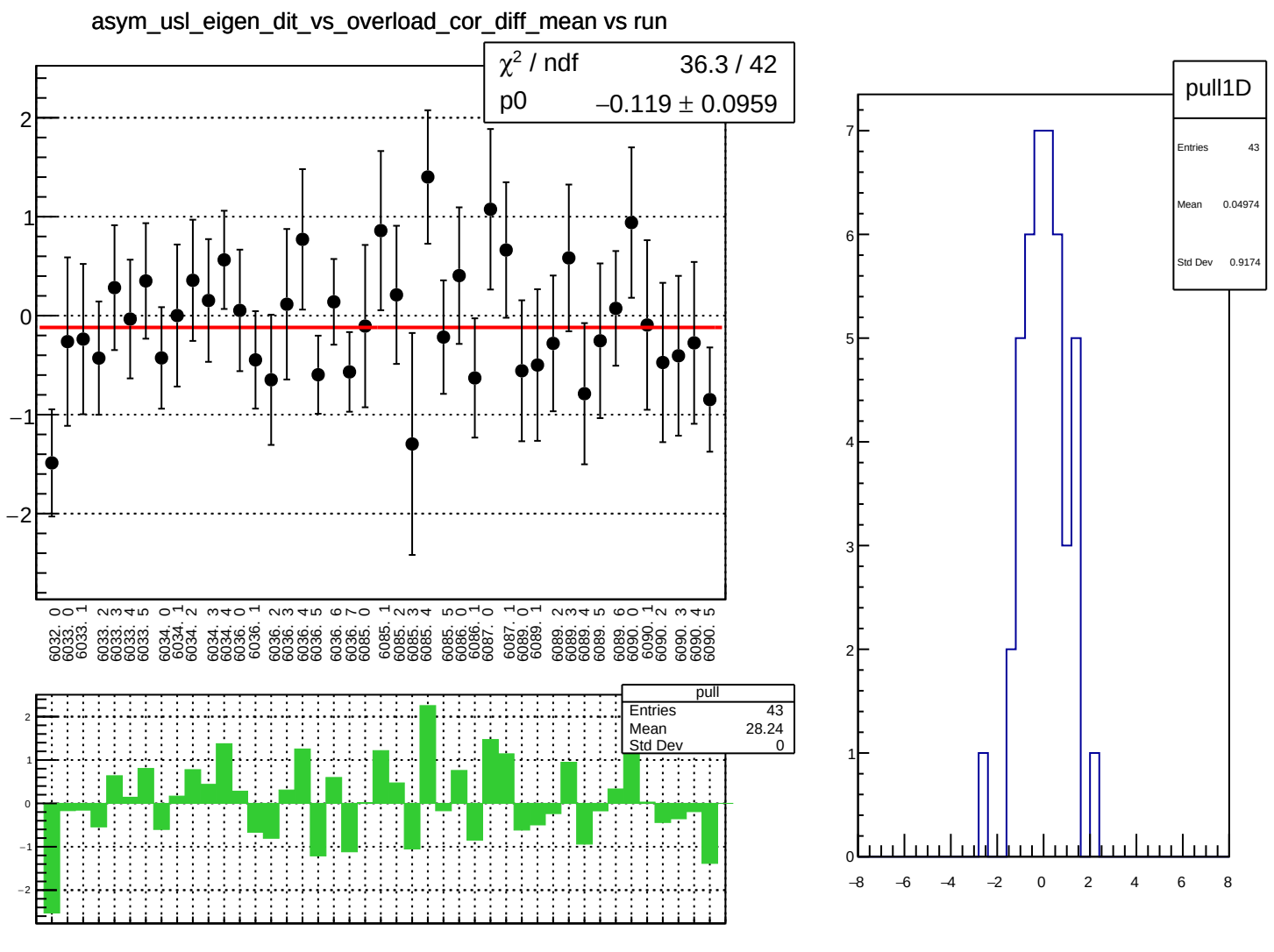
asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run

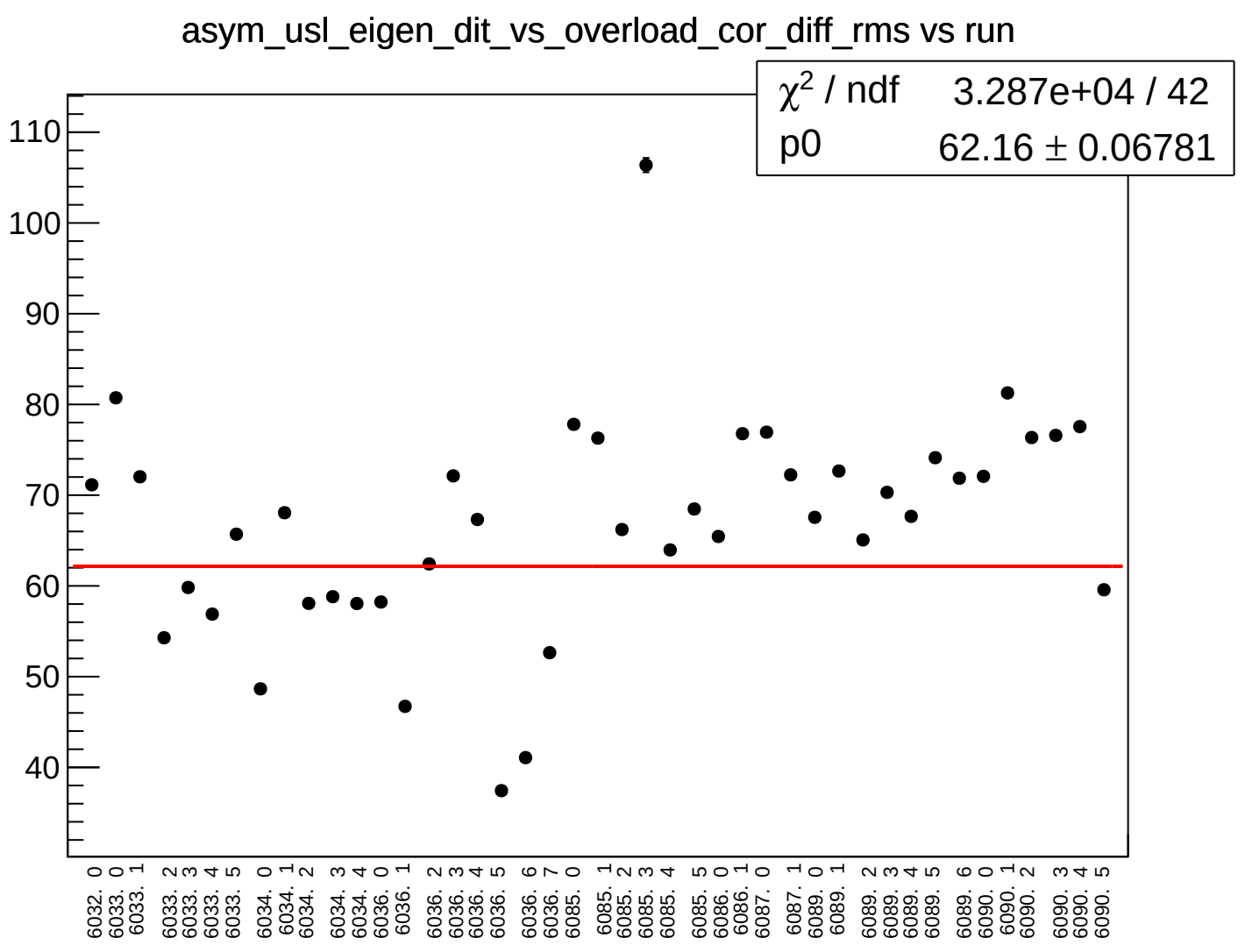


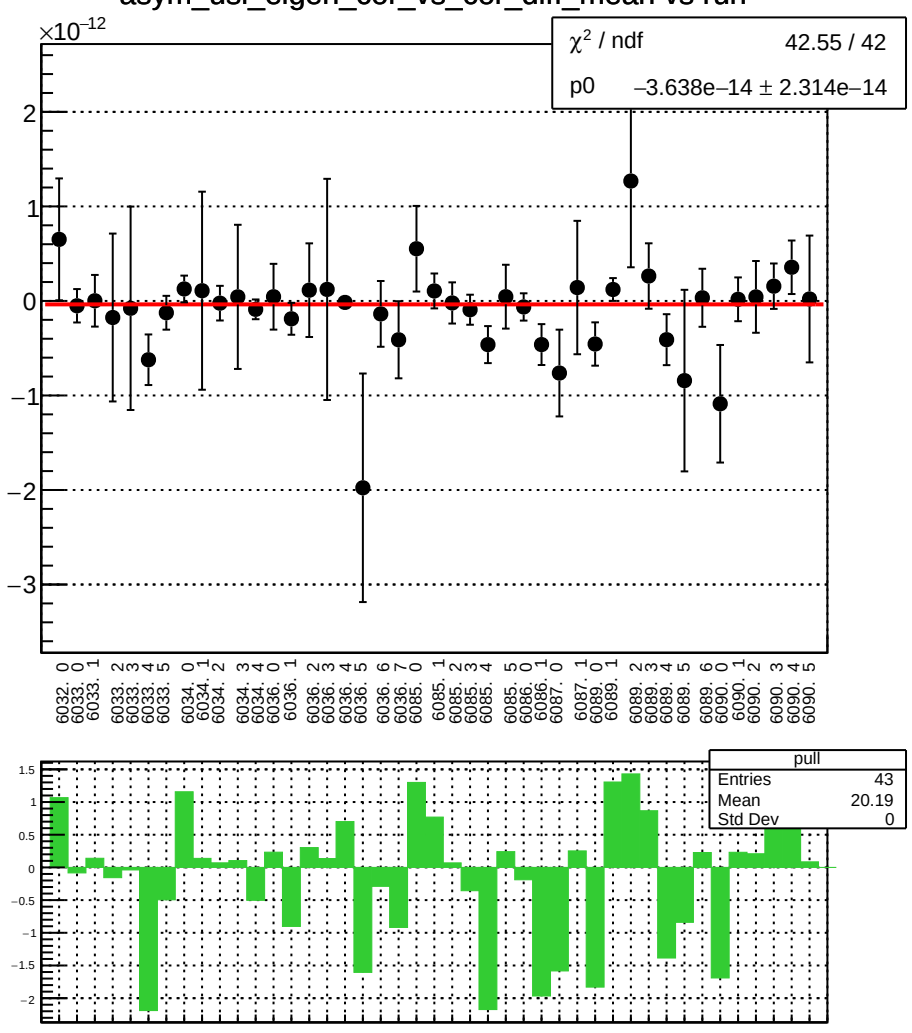


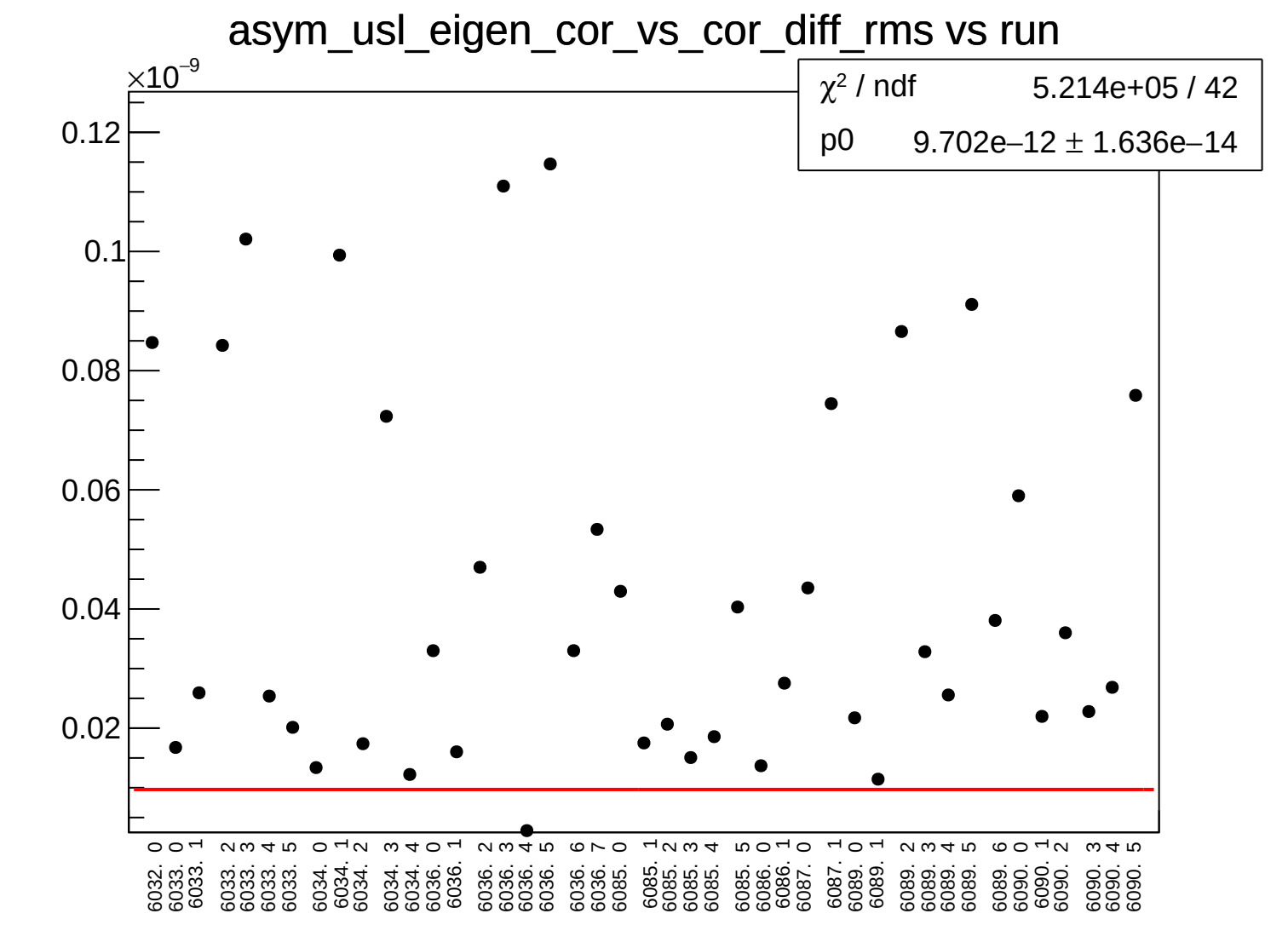


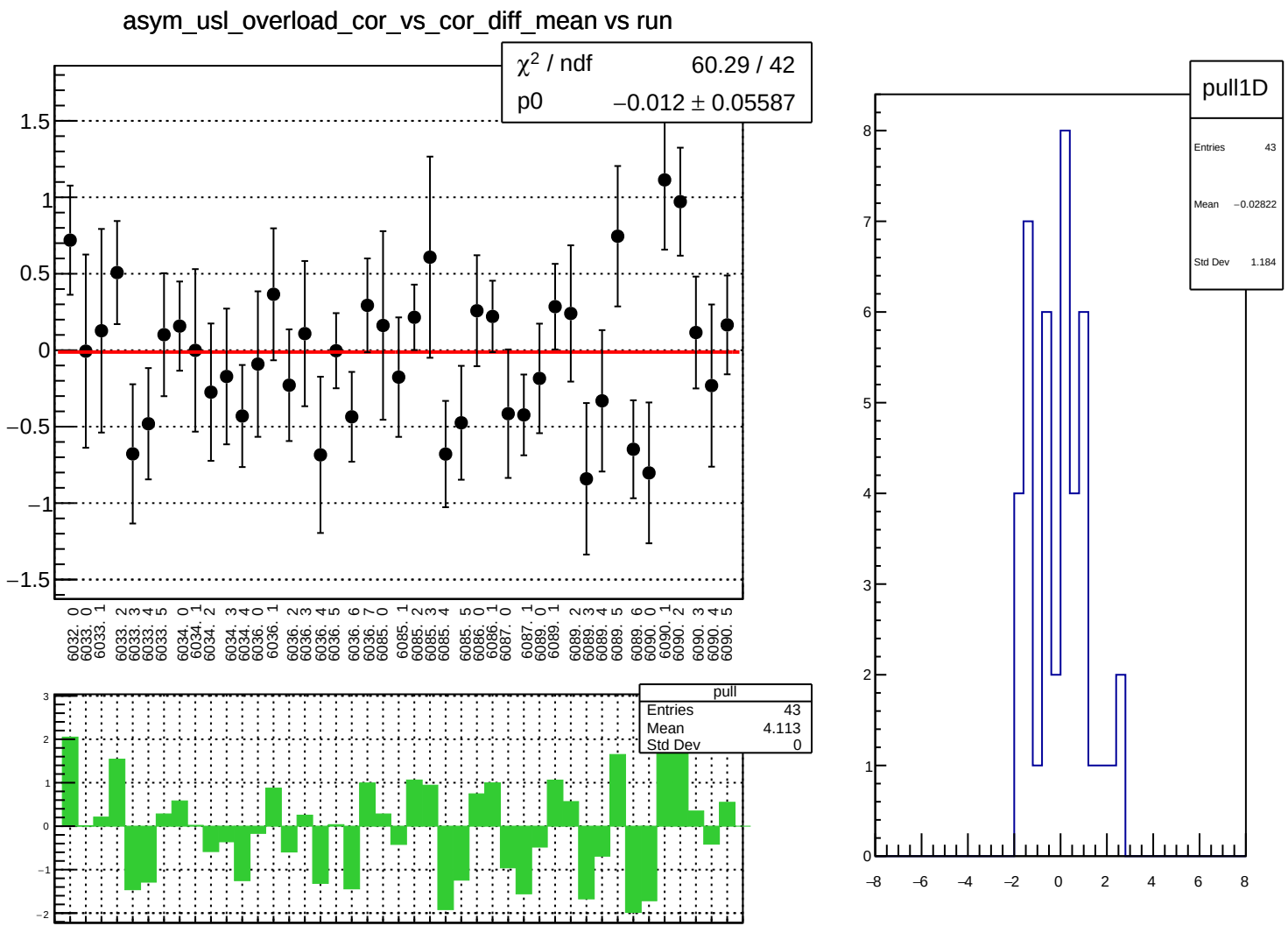

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.995e+04 / 42
p0 44.66 ± 0.04983
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

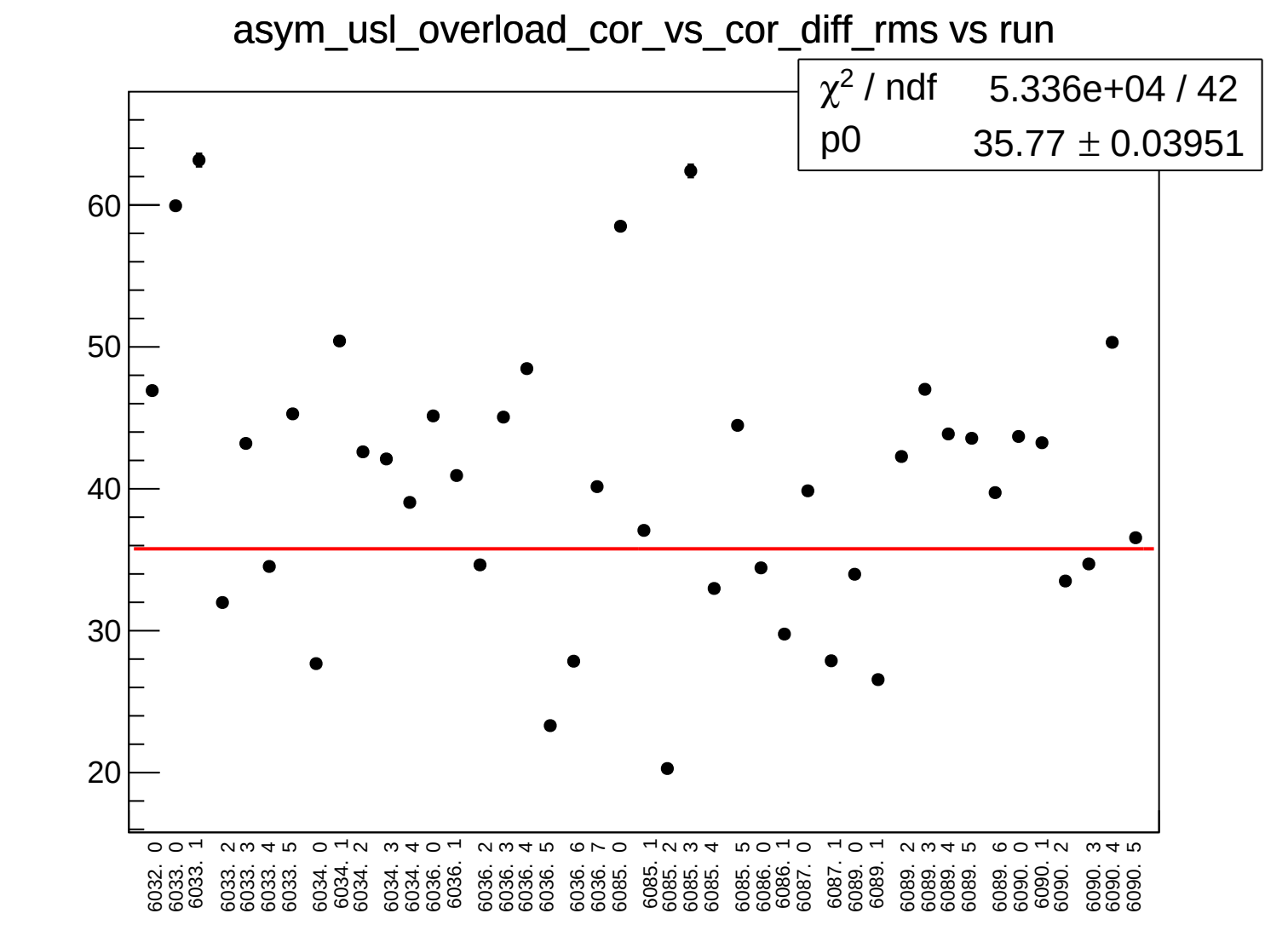

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 36.3 / 42
p0 −0.119 ± 0.0959
pull
Entries 43
Mean 28.24
Std Dev 0
pull1D
Entries 43
Mean 0.04974
Std Dev 0.9174

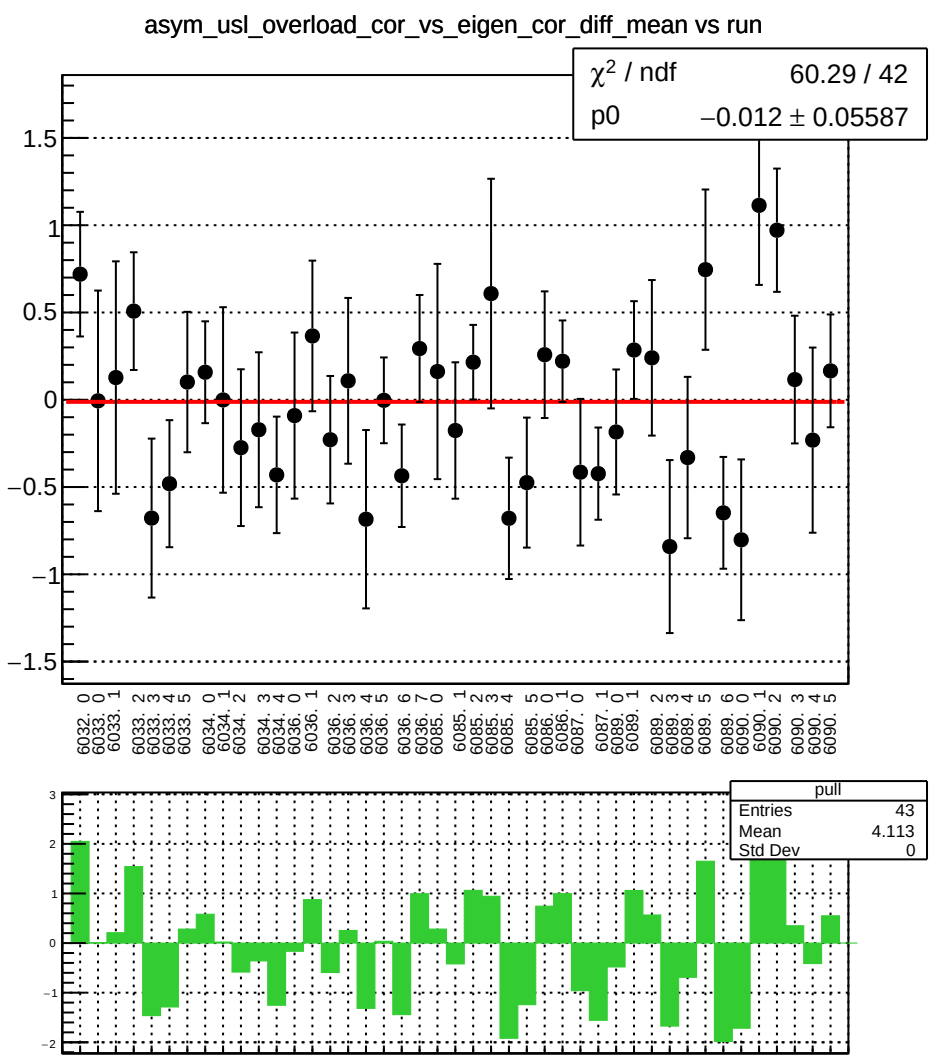

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.287e+04 / 42
p0 62.16 ± 0.06781
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

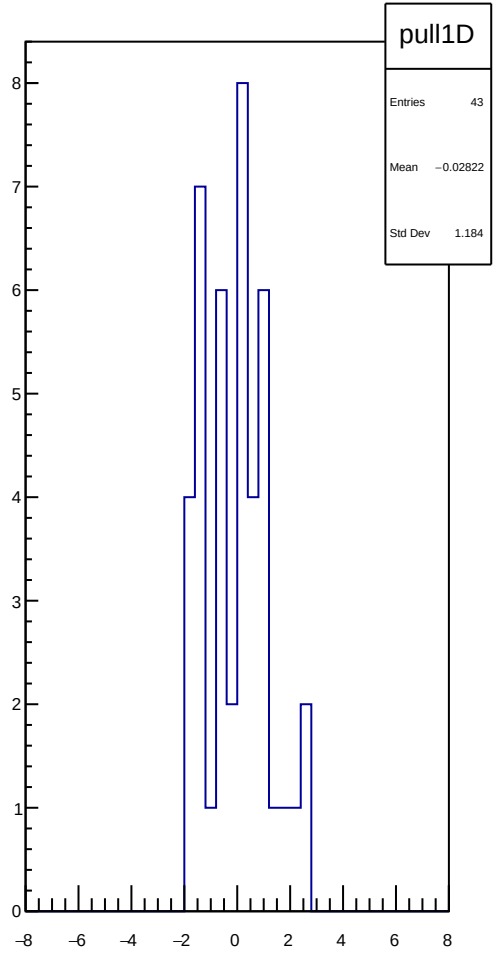

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.55 / 42
p0 −3.638e−14 ± 2.314e−14
pull
Entries 43
Mean 20.19
Std Dev 0
pull1D
Entries 43
Mean −0.1389
Std Dev 0.985

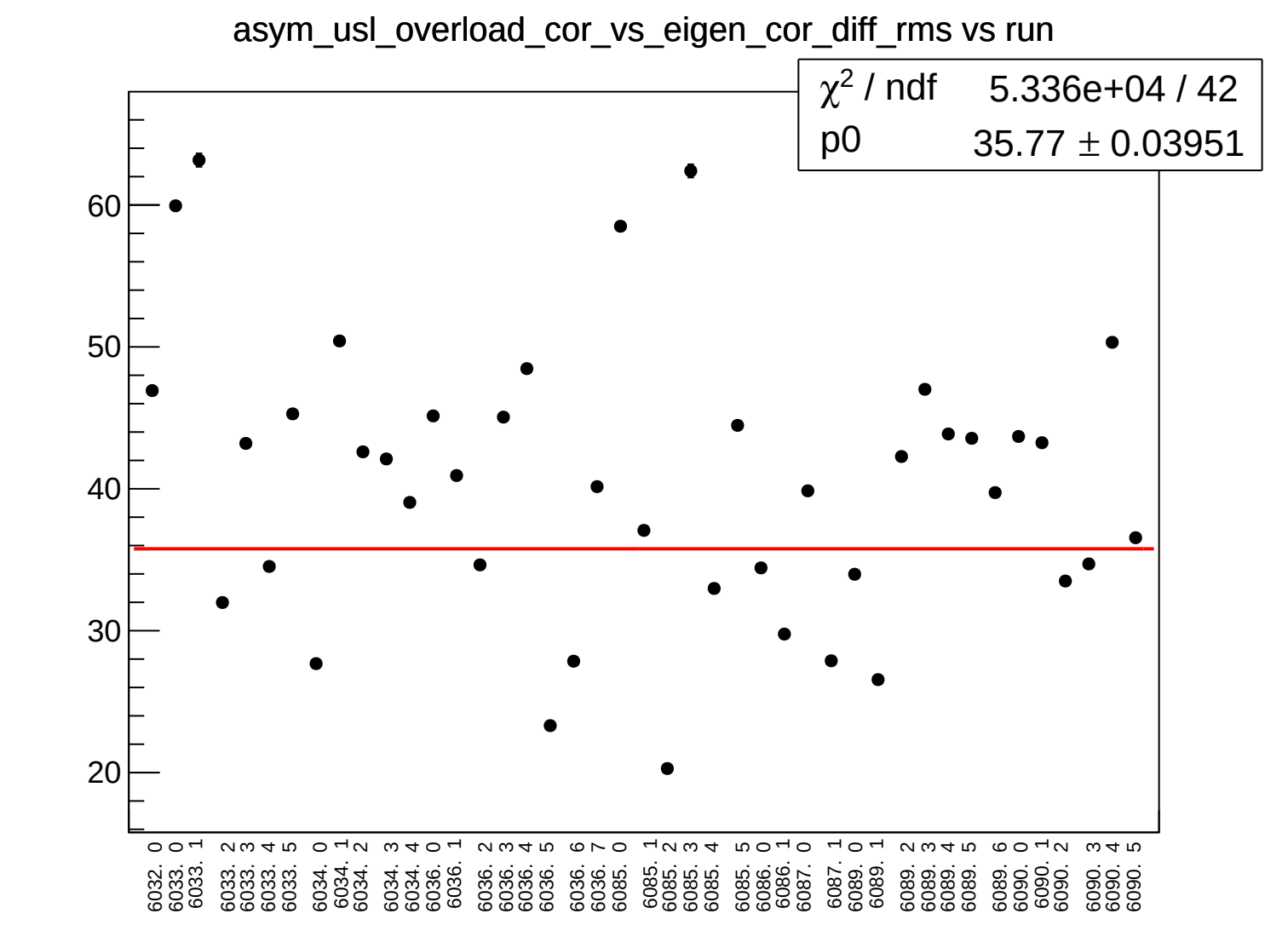

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.214e+05 / 42
p0 9.702e−12 ± 1.636e−14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

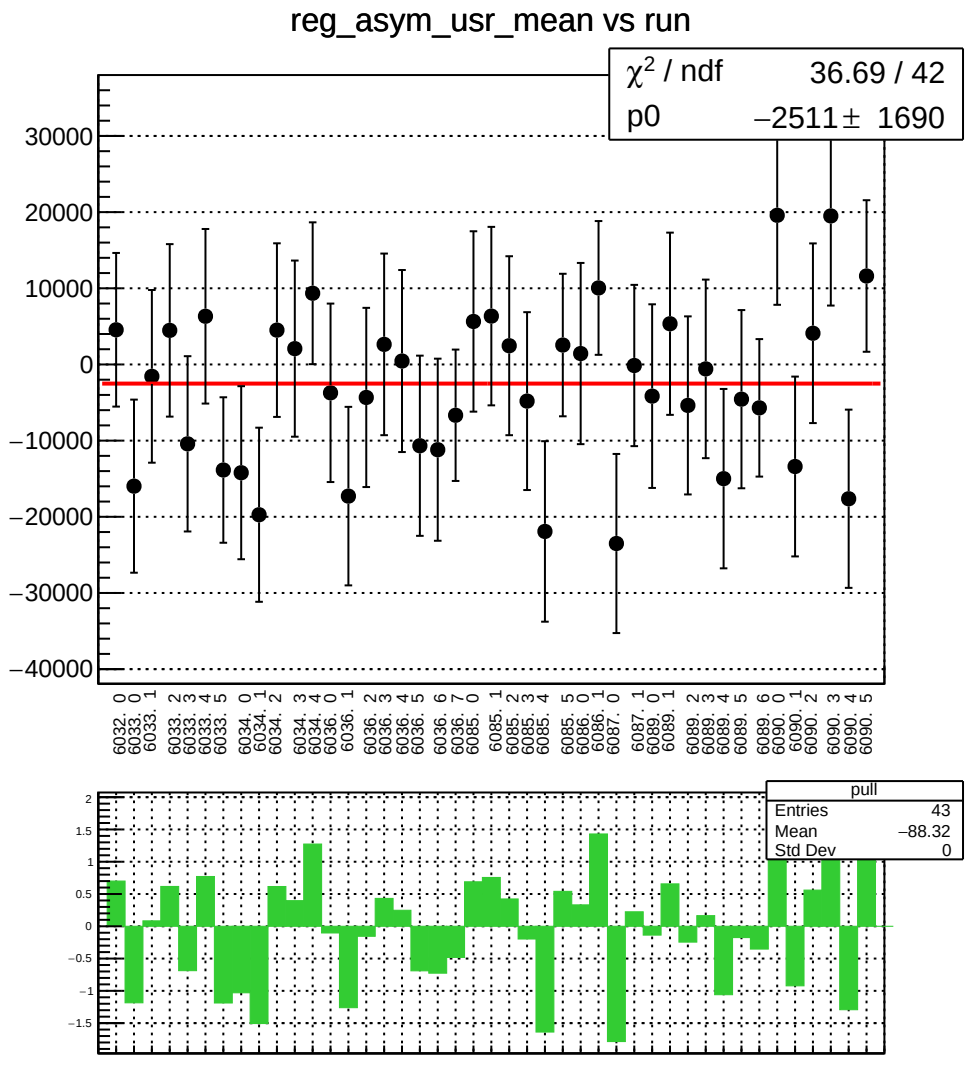

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 60.29 / 42
p0 −0.012 ± 0.05587
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.113
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02822
Std Dev 1.184
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

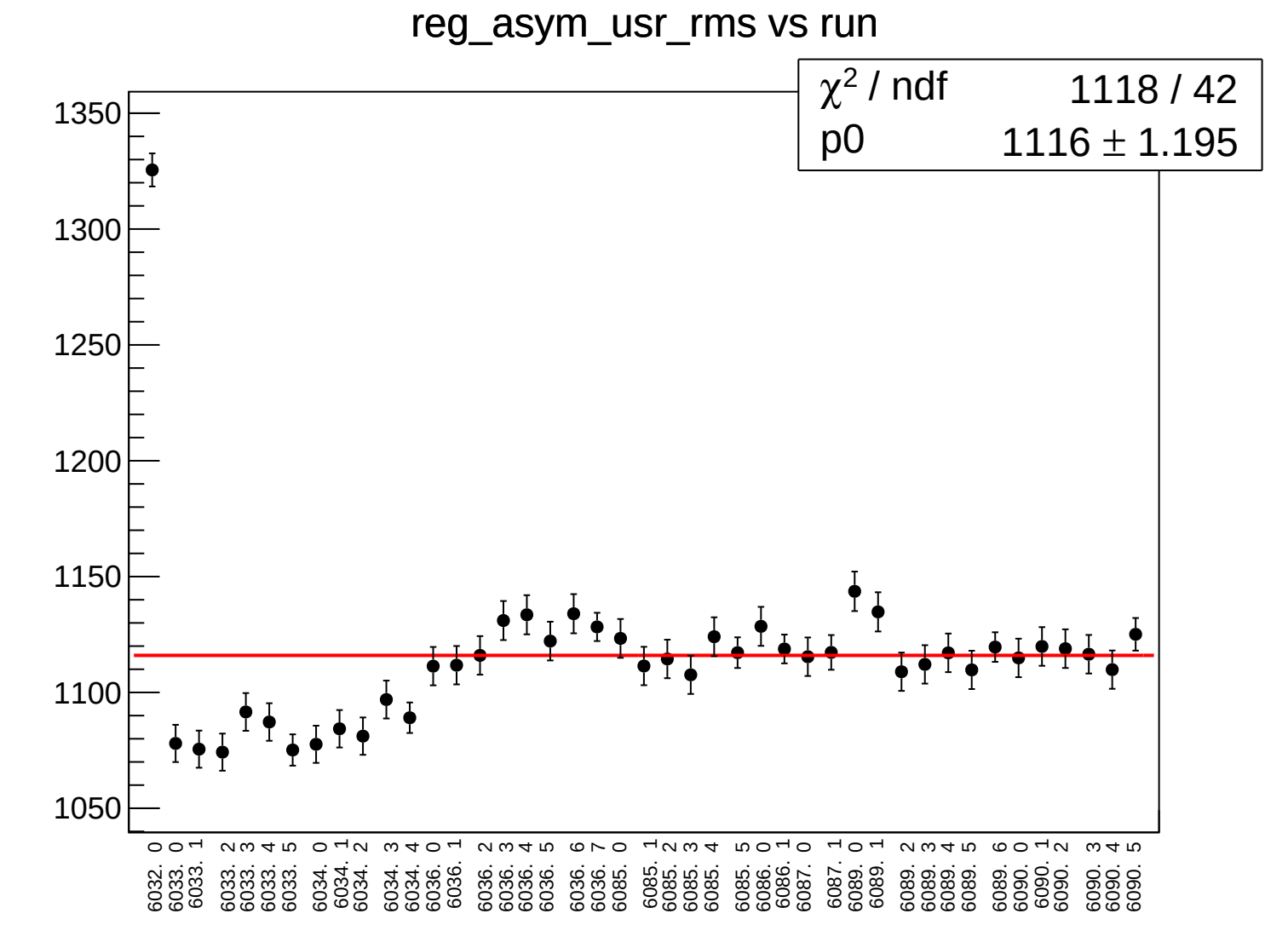

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.336e+04 / 42
p0 35.77 ± 0.03951
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

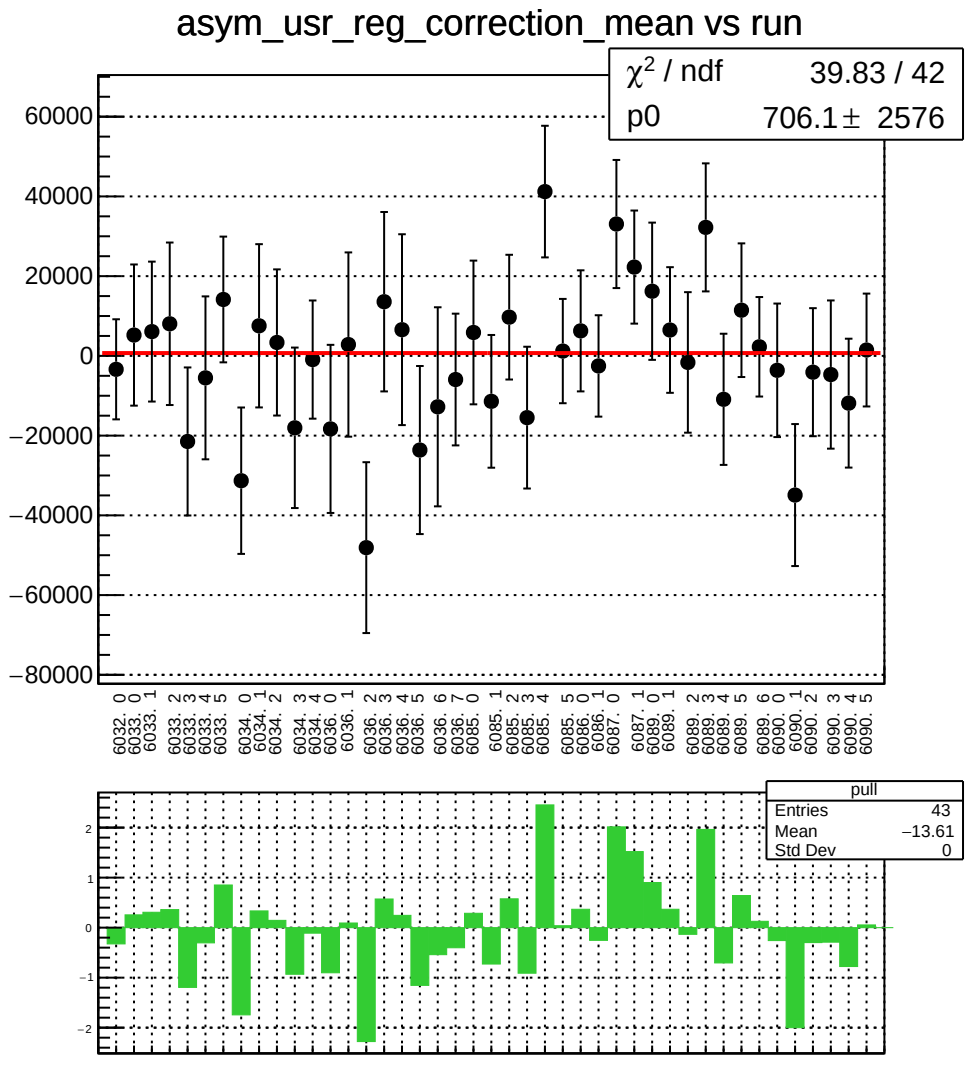

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.29 / 42
p0 −0.012 ± 0.05587
pull
Entries 43
Mean 4.113
Std Dev 0

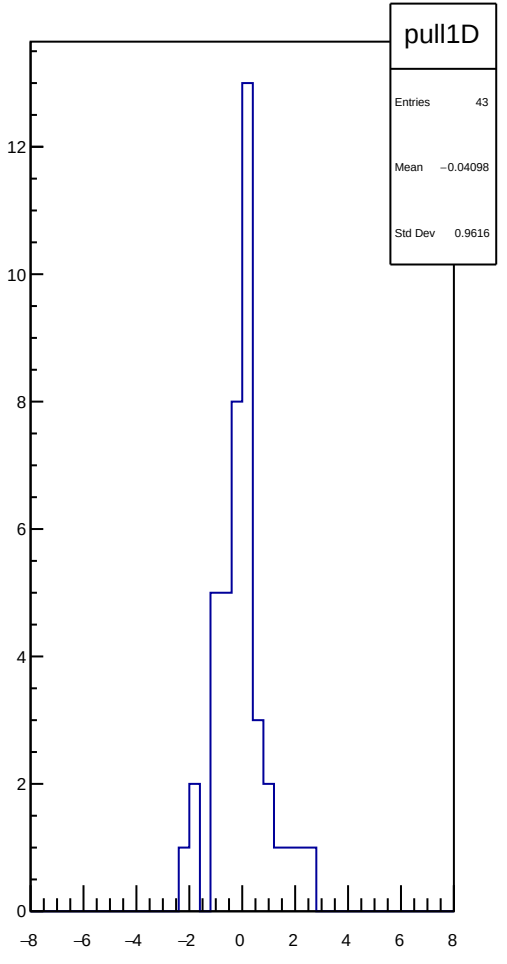

pull1D
Entries 43
Mean −0.02822
Std Dev 1.184

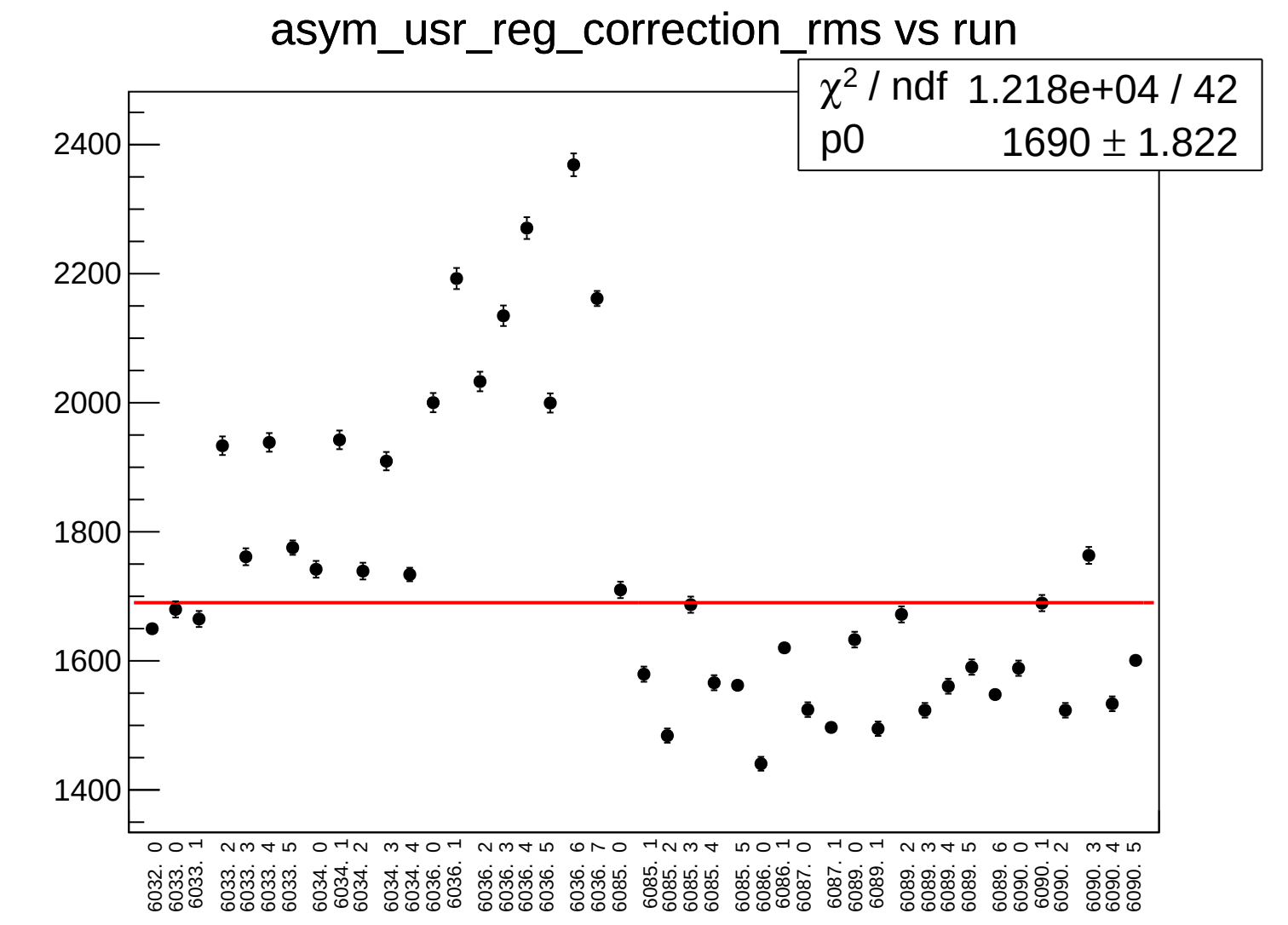

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.336e+04 / 42
p0 35.77 ± 0.03951
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

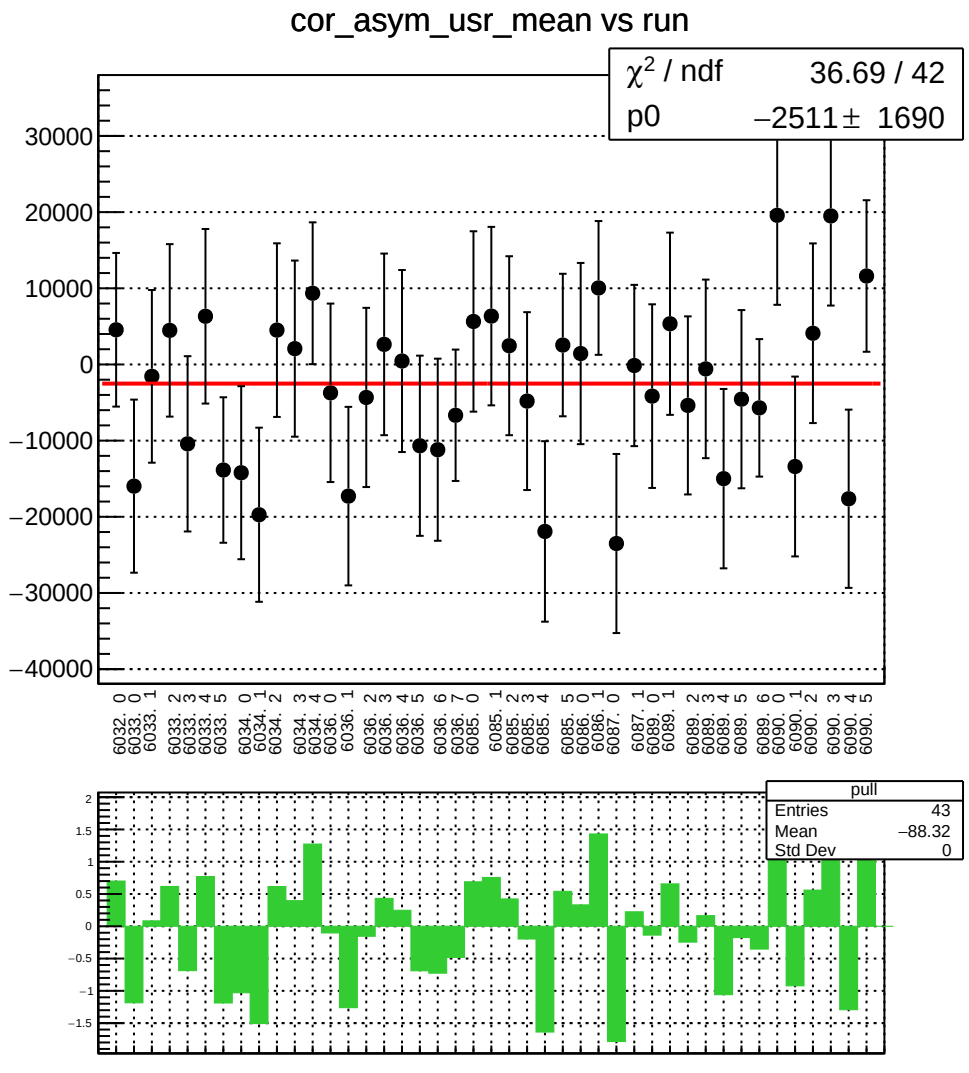

reg_asym_usr_mean vs run
χ² / ndf 36.69 / 42
p0 −2511 ± 1690
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −88.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01702
Std Dev 0.9236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

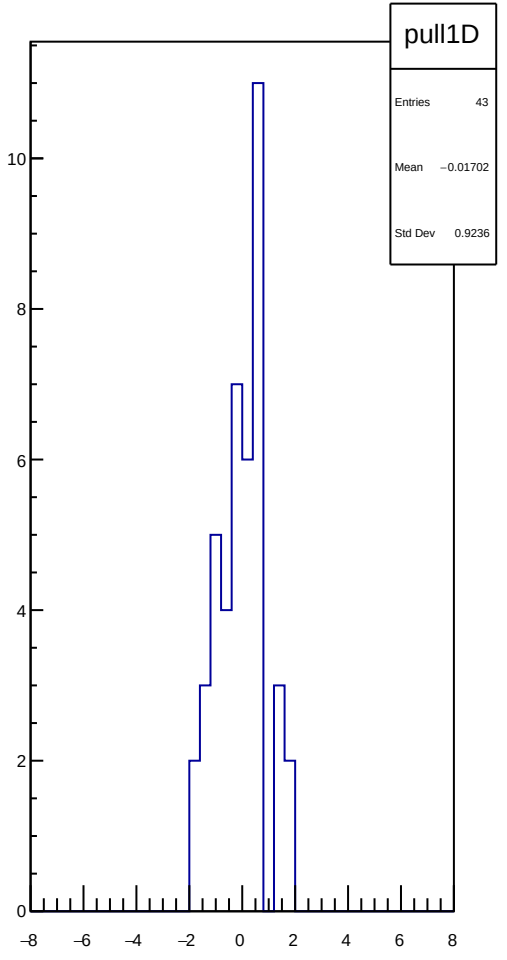

reg_asym_usr_rms vs run
χ² / ndf 1118 / 42
p0 1116 ± 1.195
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

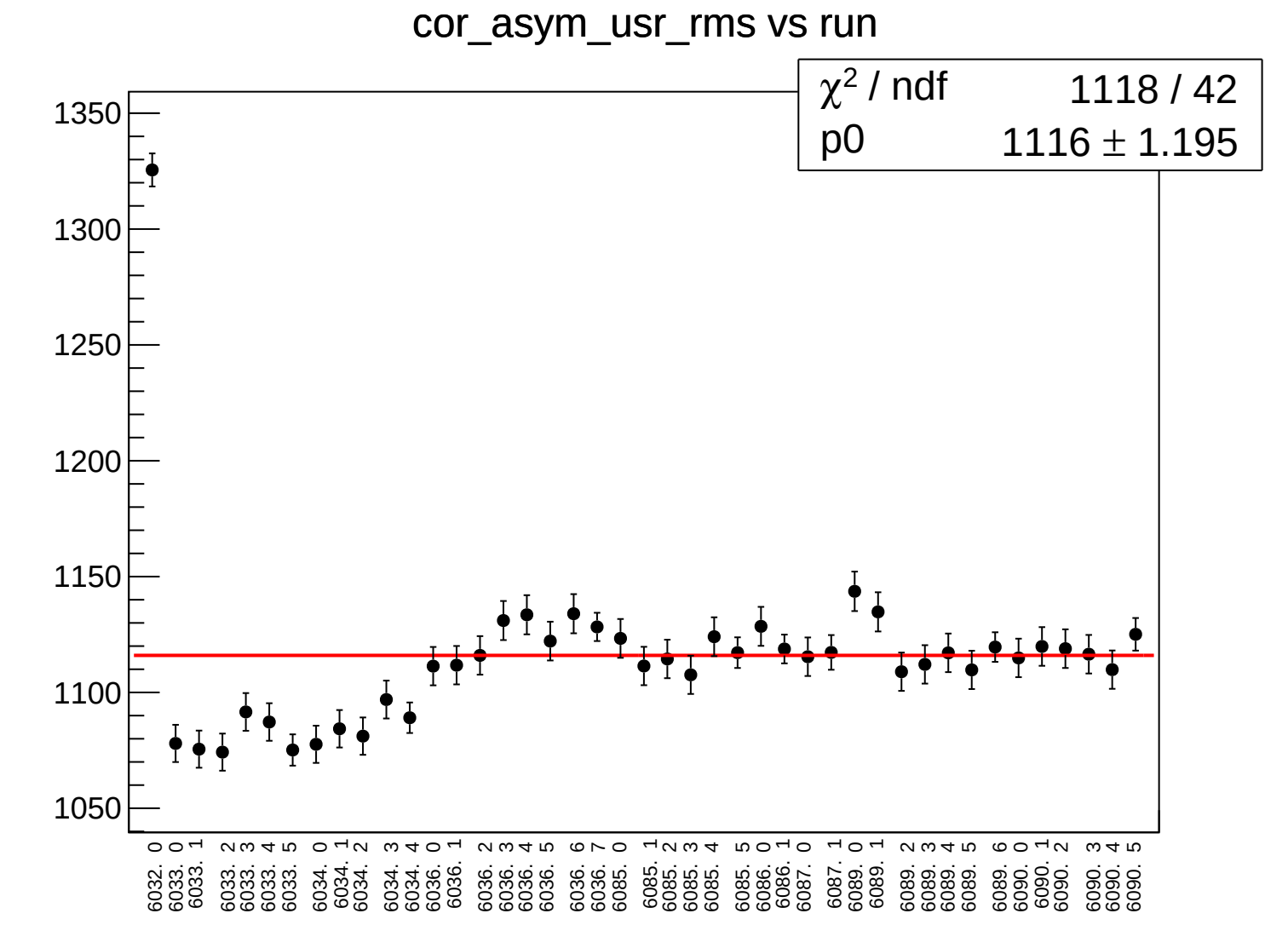

asym_usr_reg_correction_mean vs run
χ² / ndf 39.83 / 42
p0 706.1 ± 2576
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.61
Std Dev 0
2
1
0
−1
−2

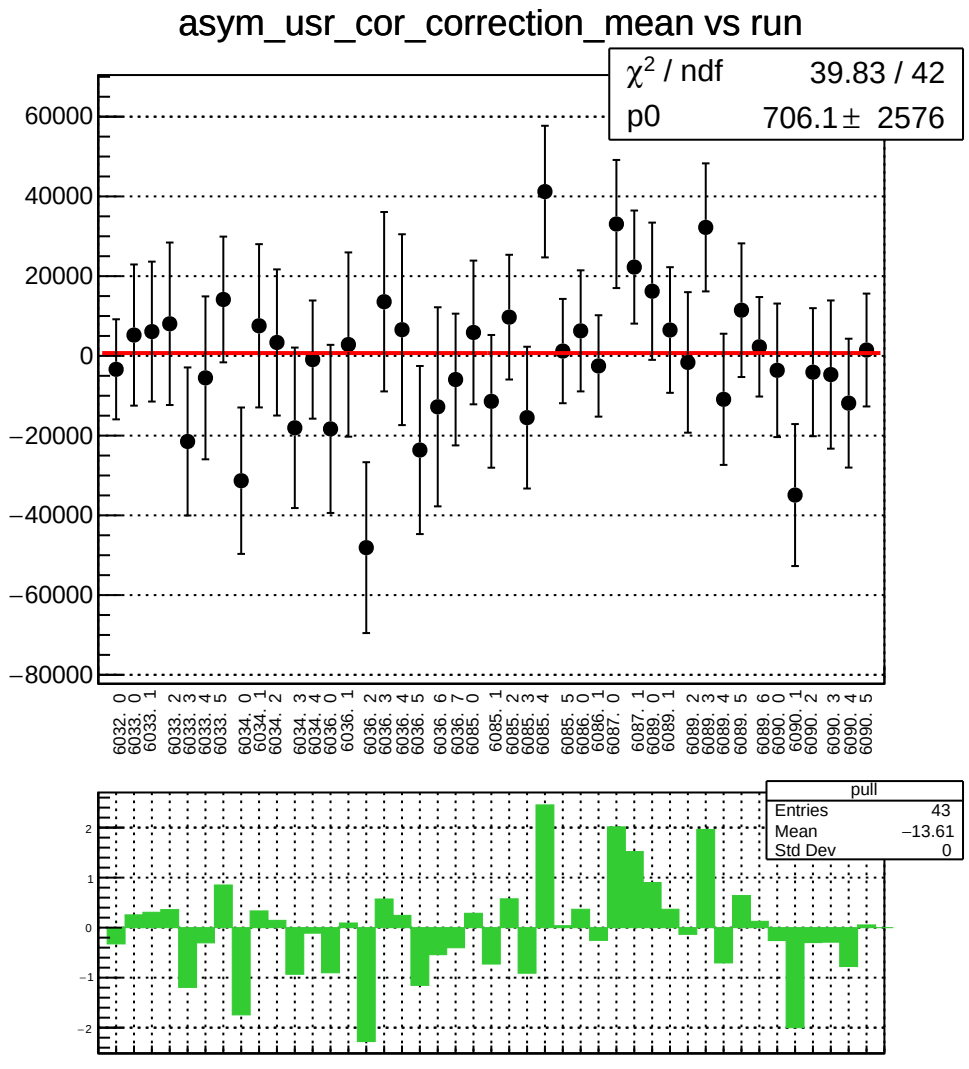

pull1D
Entries 43
Mean −0.04098
Std Dev 0.9616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

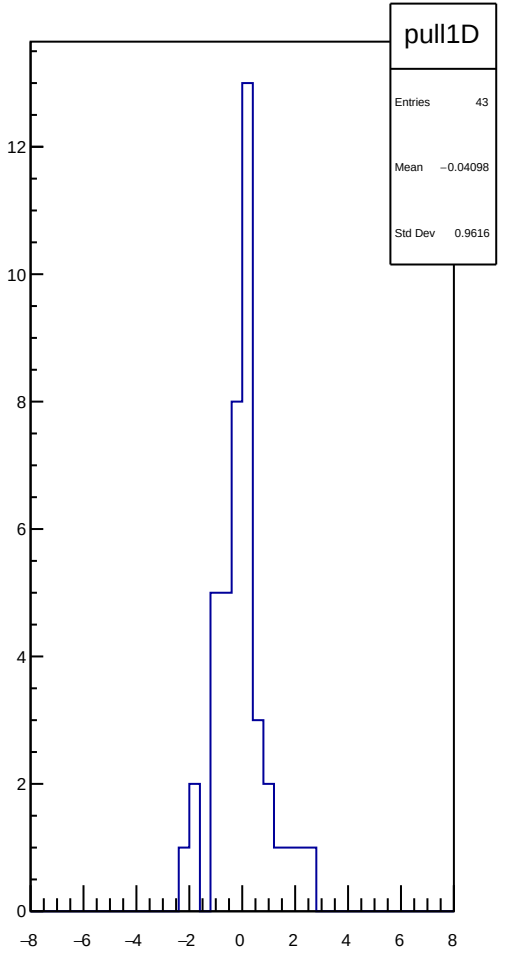

asym_usr_reg_correction_rms vs run
χ² / ndf 1.218e+04 / 42
p0 1690 ± 1.822
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

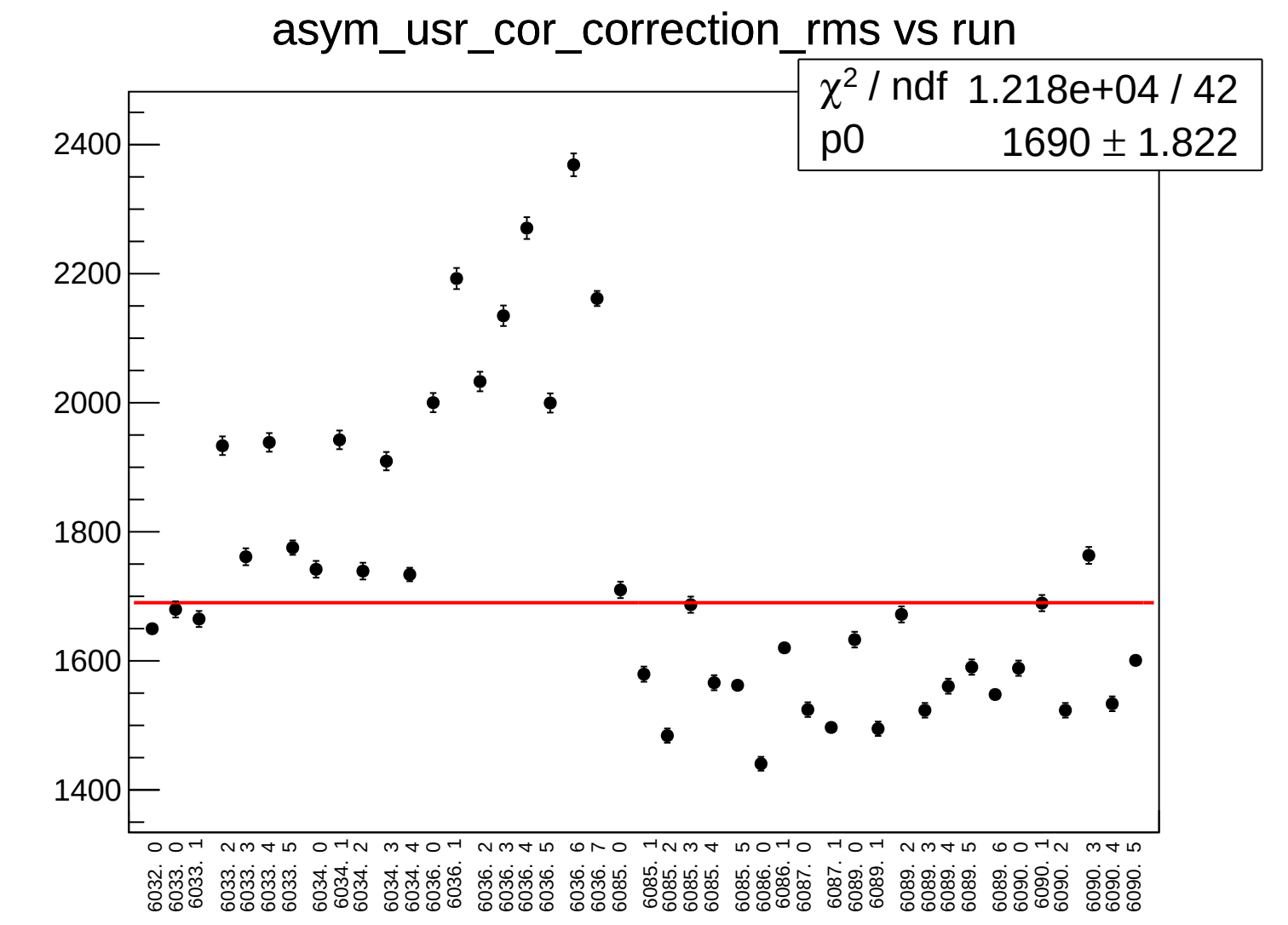

cor_asym_usr_mean vs run
χ² / ndf 36.69 / 42
p0 −2511 ± 1690
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −88.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

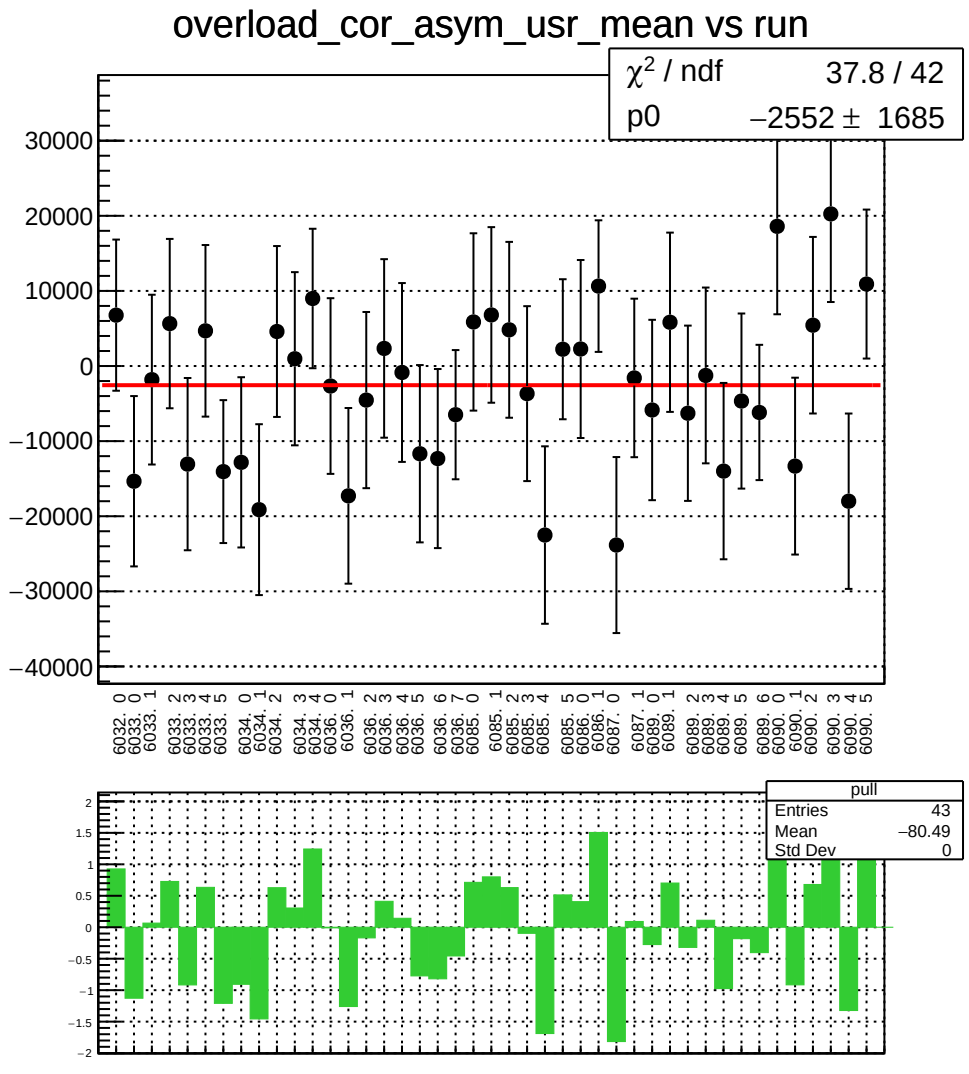

pull1D
Entries 43
Mean −0.01702
Std Dev 0.9236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

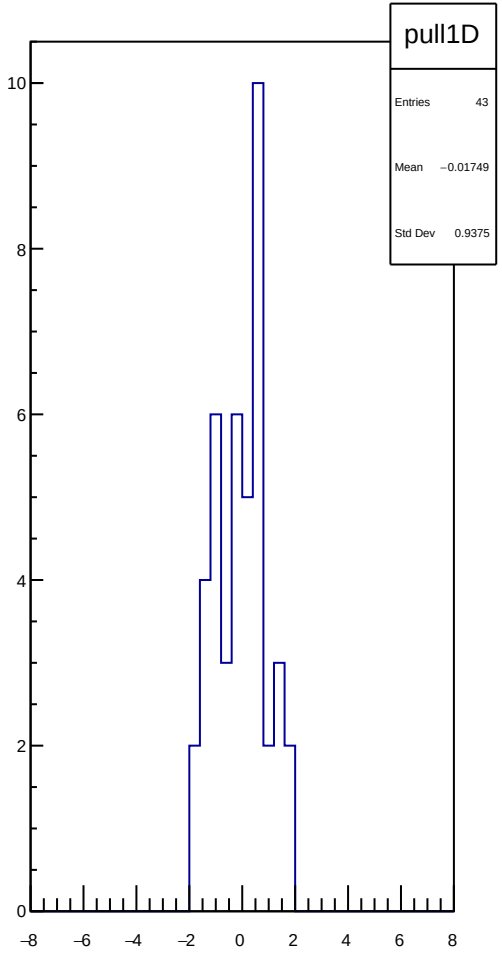

cor_asym_usr_rms vs run
χ² / ndf 1118 / 42
p0 1116 ± 1.195
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

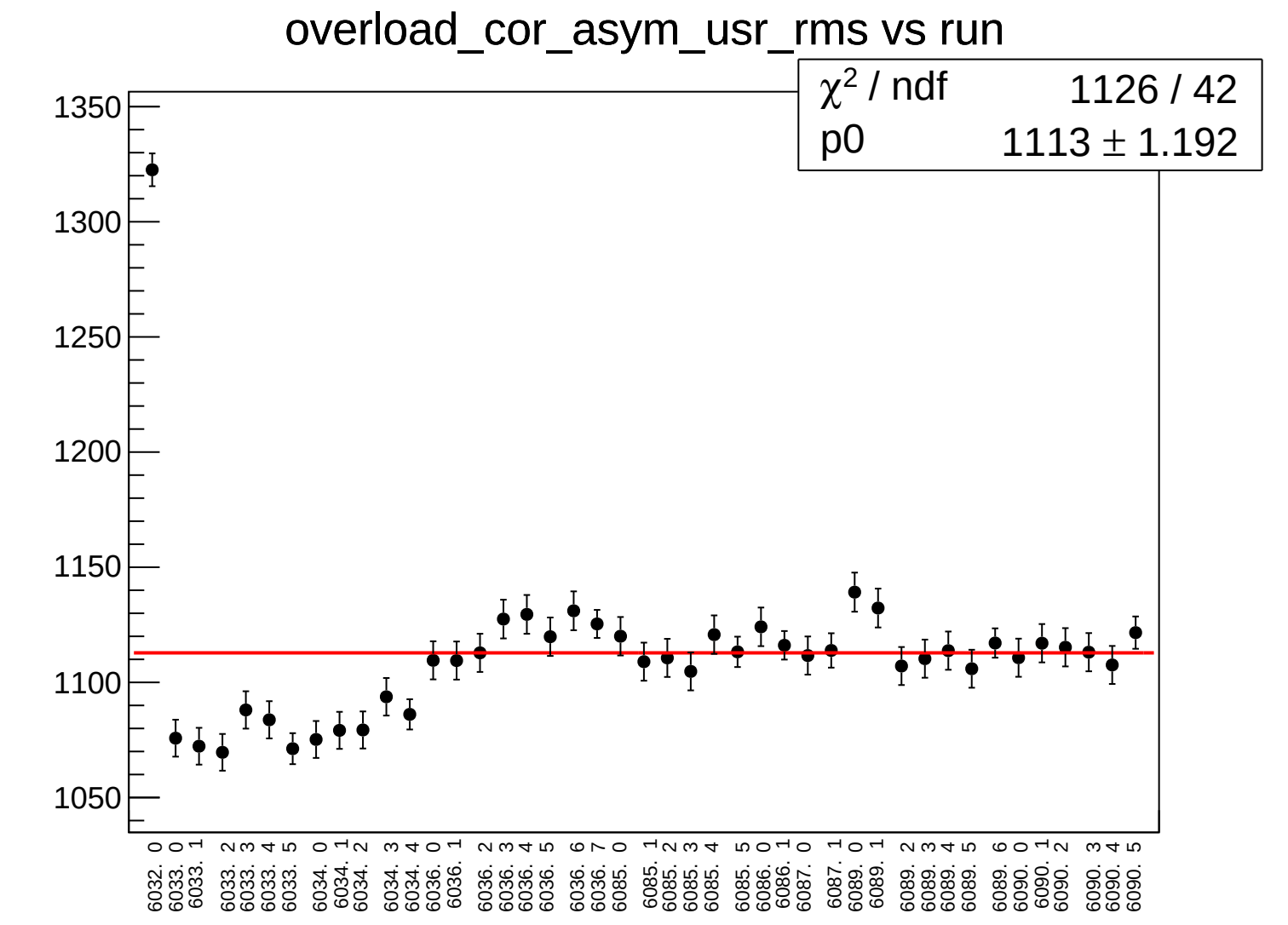

asym_usr_cor_correction_mean vs run
χ² / ndf 39.83 / 42
p0 706.1 ± 2576
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.61
Std Dev 0
2
1
0
−1
−2

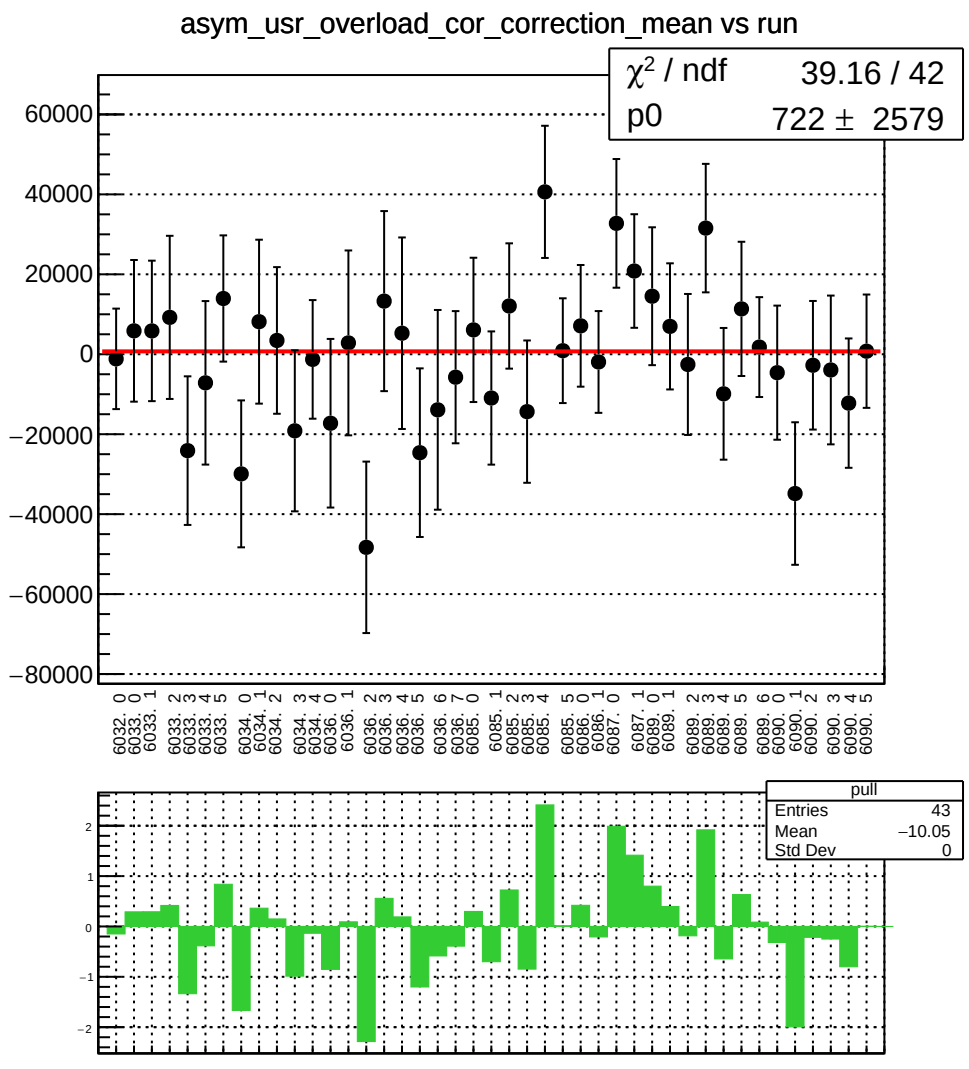

pull1D
Entries 43
Mean −0.04098
Std Dev 0.9616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

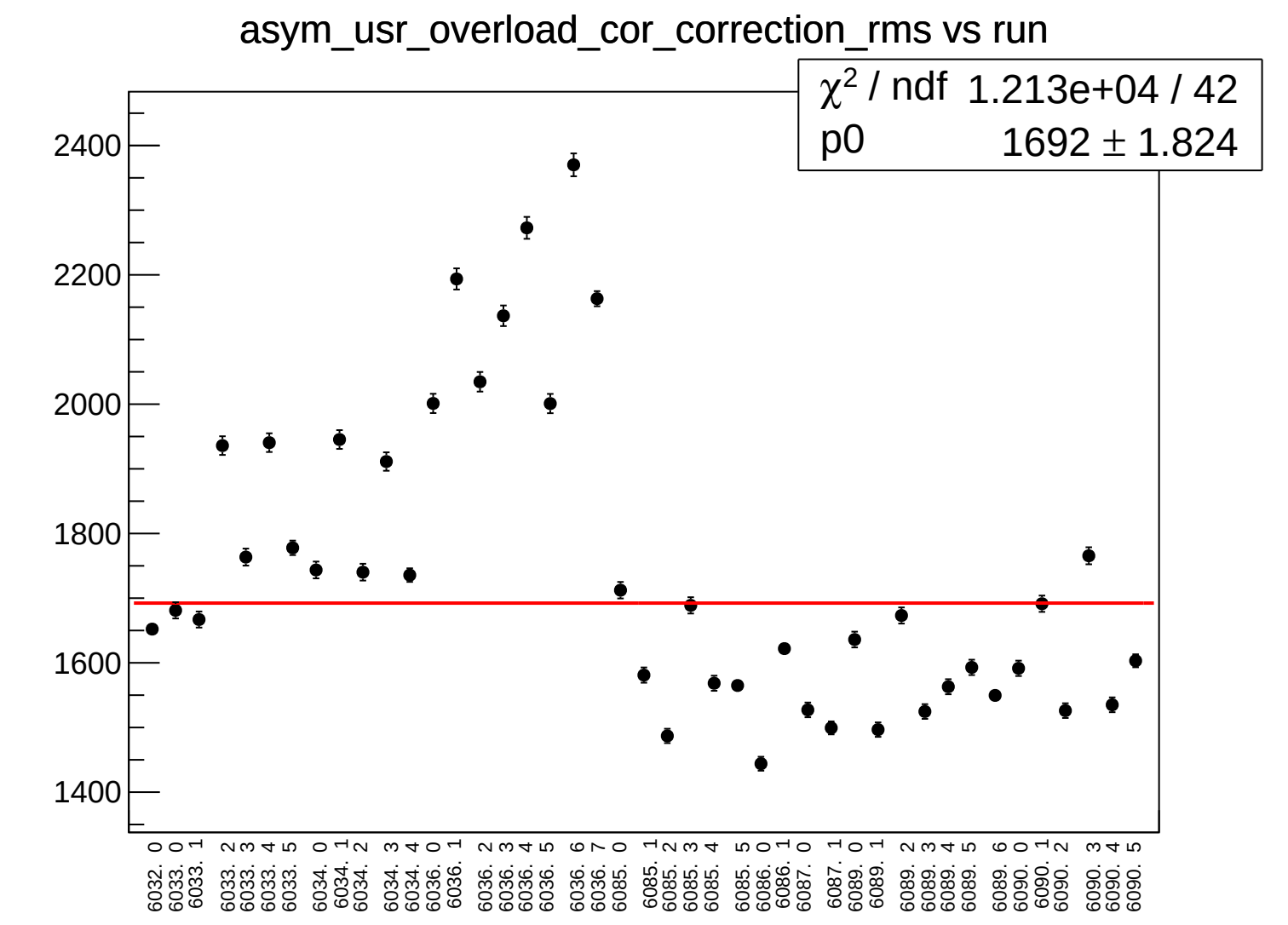

asym_usr_cor_correction_rms vs run
χ² / ndf 1.218e+04 / 42
p0 1690 ± 1.822
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

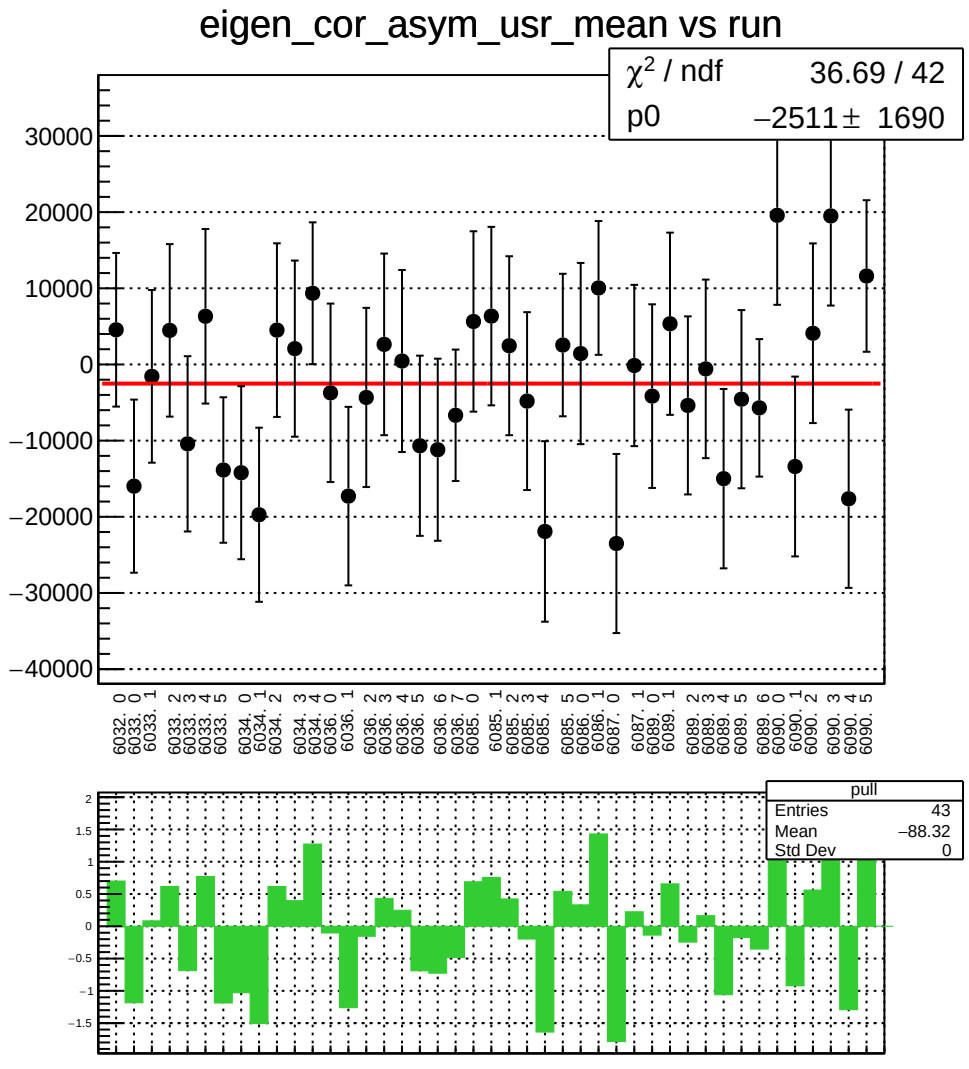

overload_cor_asym_usr_mean vs run
χ² / ndf 37.8 / 42
p0 −2552 ± 1685
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −80.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

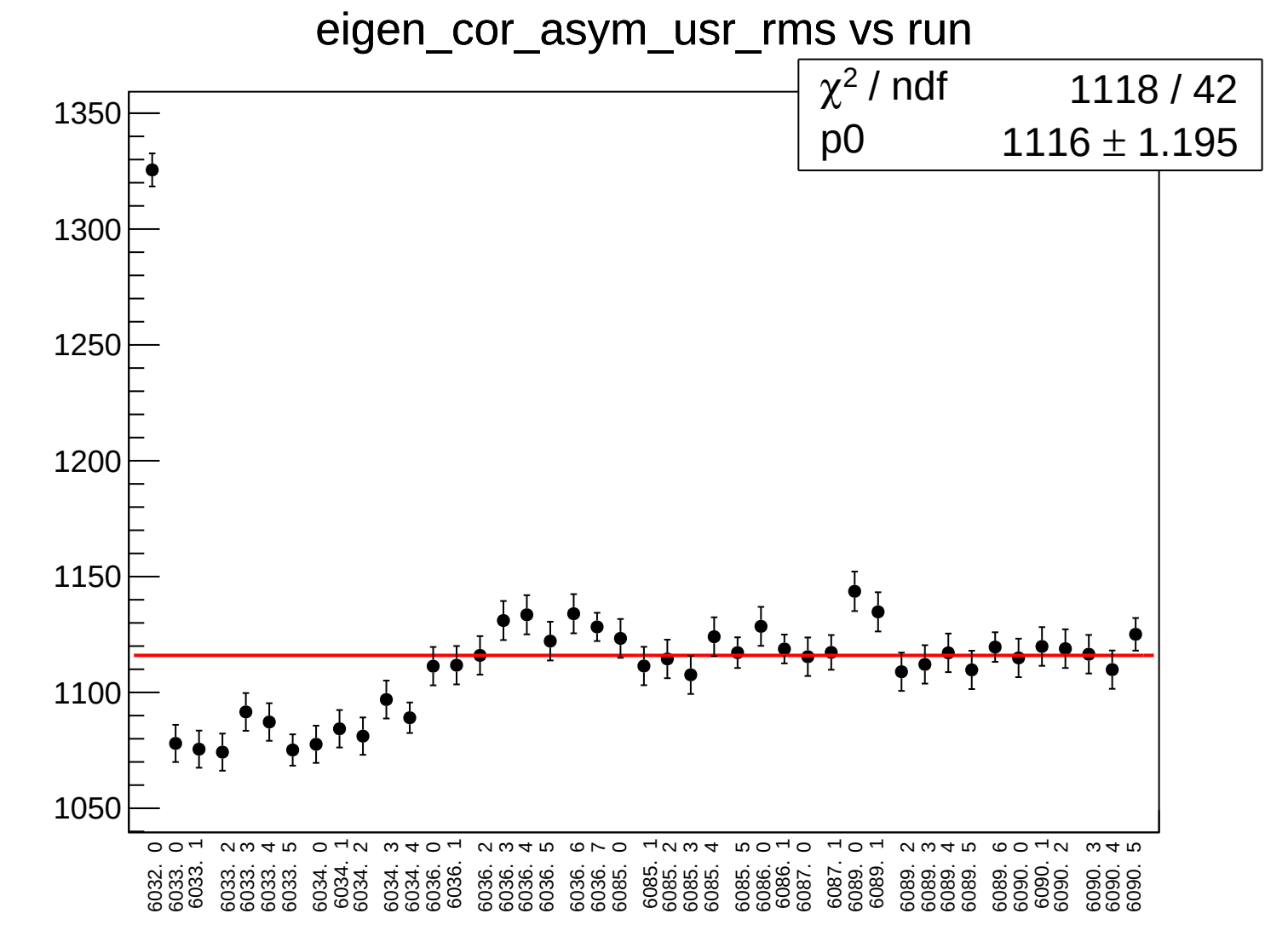

pull1D
Entries 43
Mean −0.01749
Std Dev 0.9375
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

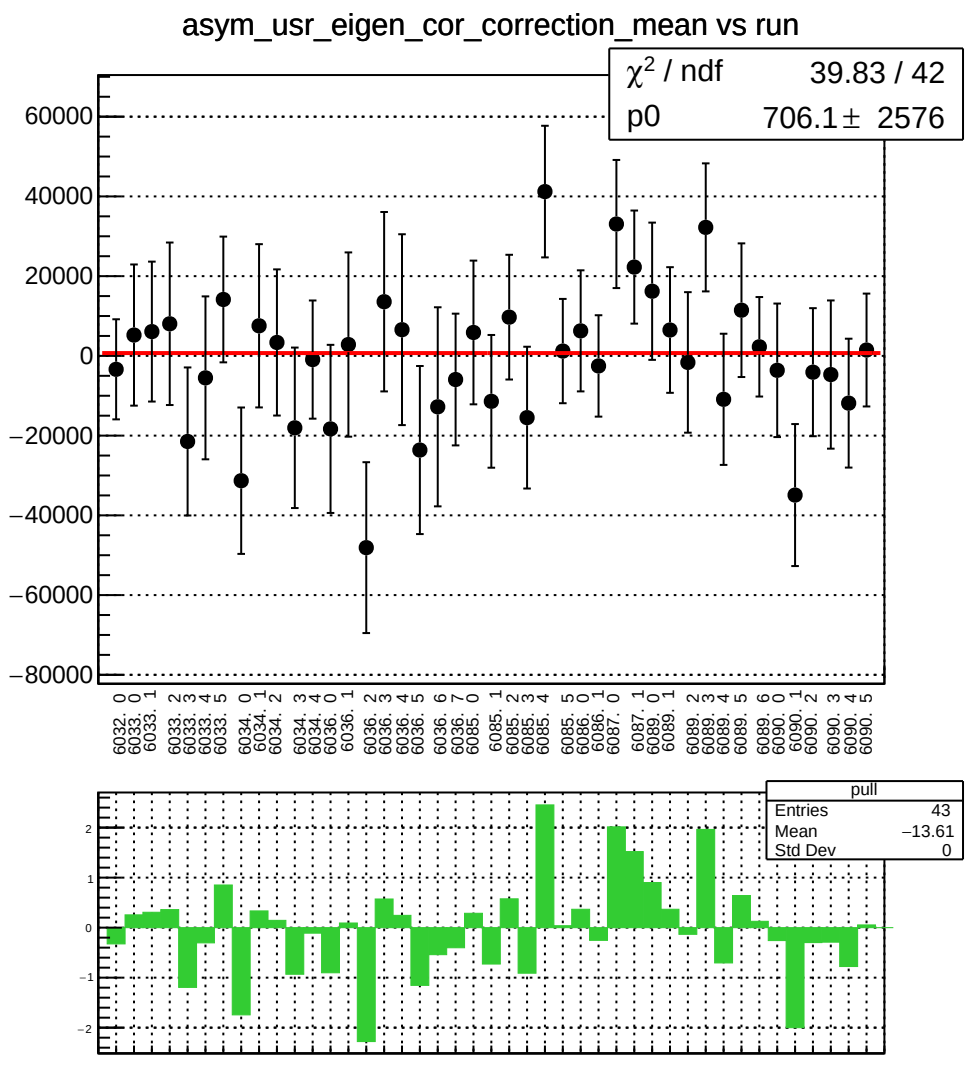

overload_cor_asym_usr_rms vs run
χ² / ndf 1126 / 42
p0 1113 ± 1.192
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

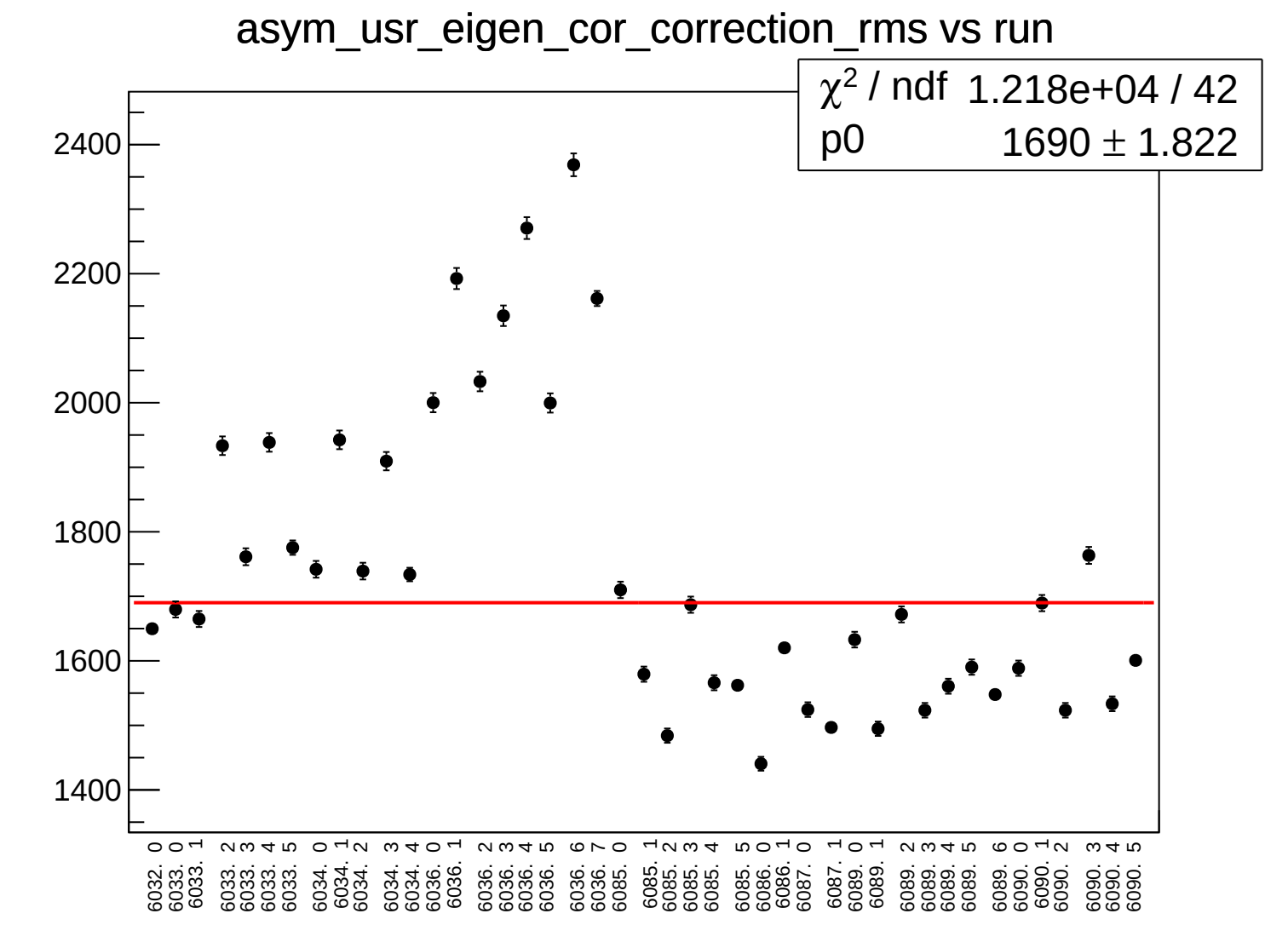

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 39.16 / 42
p0 722 ± 2579
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −10.05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04282
Std Dev 0.9534
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

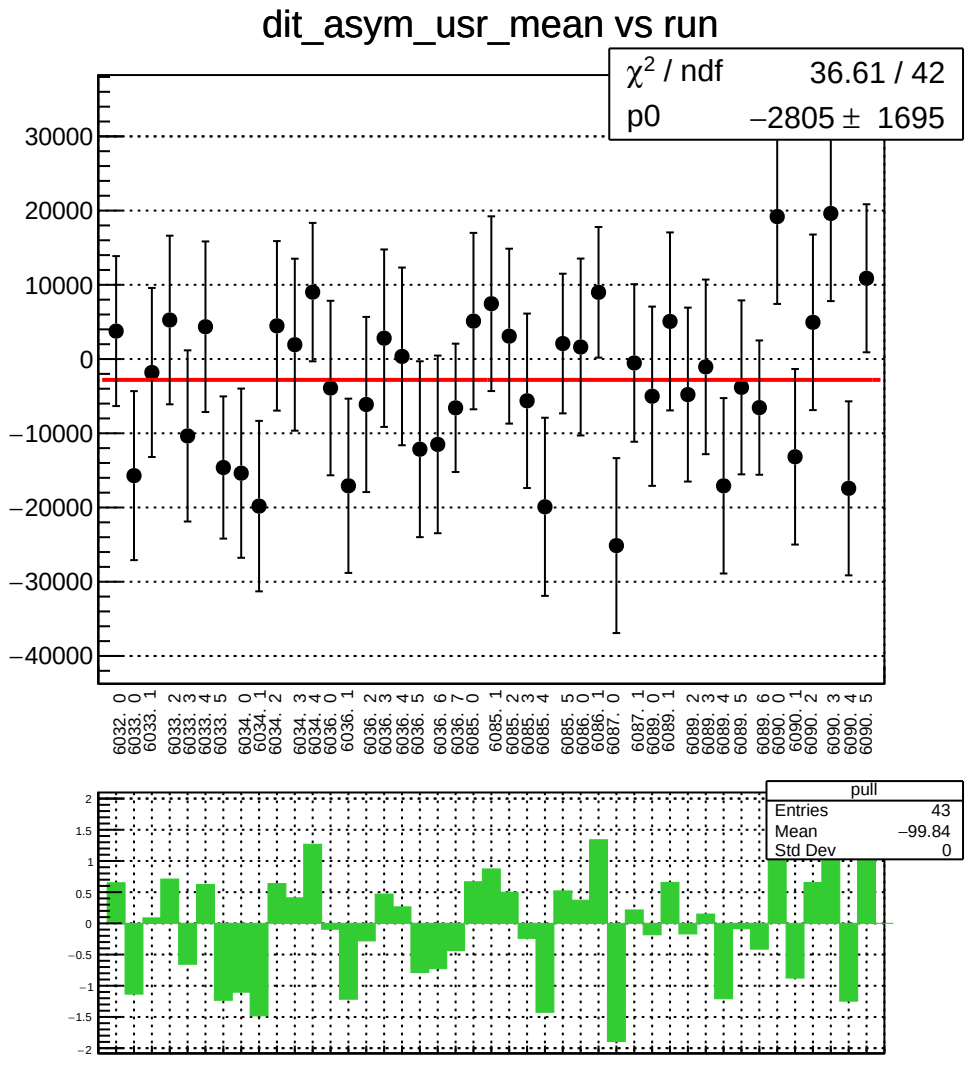

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 42
p0 1692 ± 1.824
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

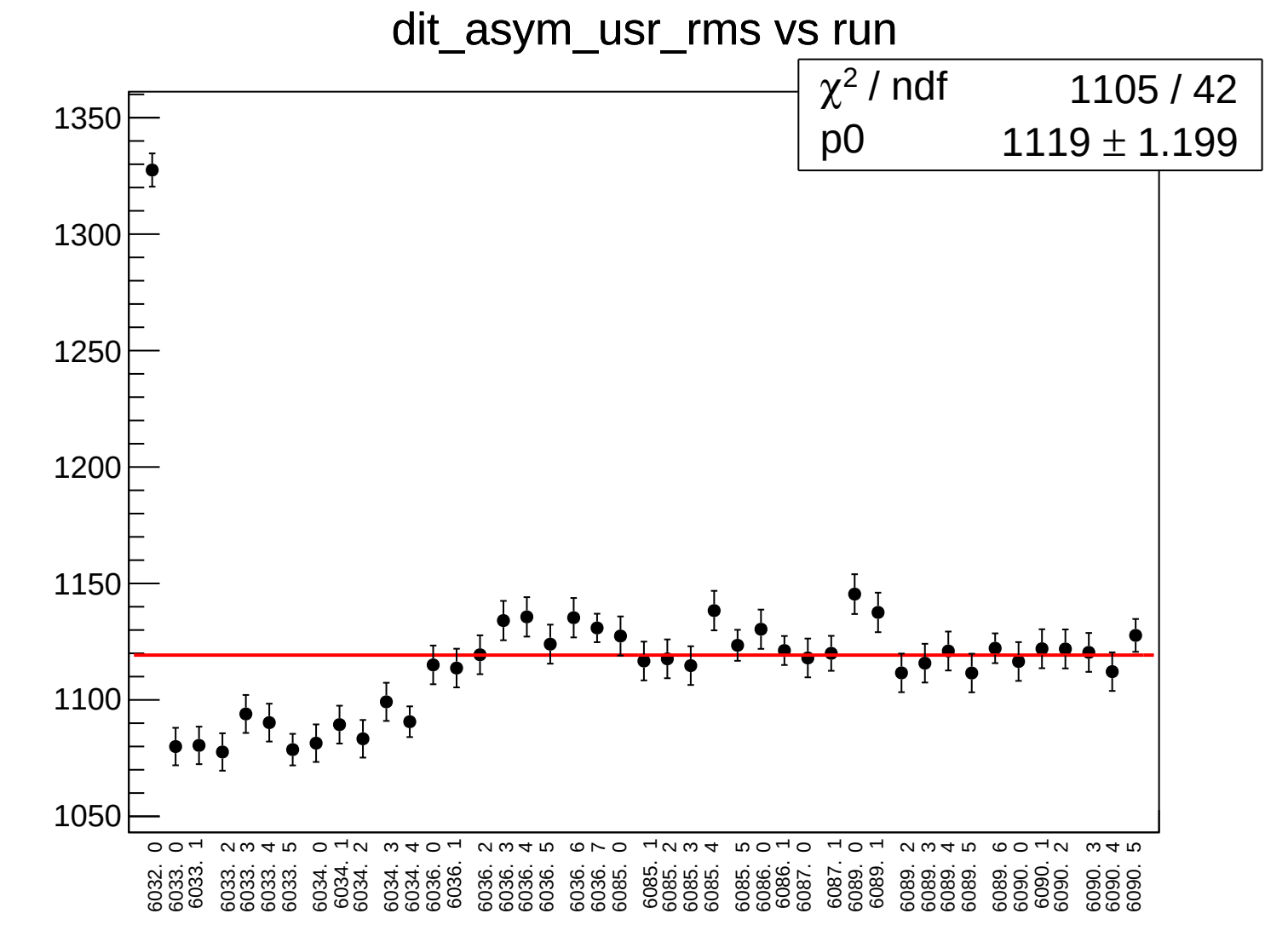

eigen_cor_asym_usr_mean vs run
χ² / ndf 36.69 / 42
p0 −2511 ± 1690
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −88.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01702
Std Dev 0.9236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

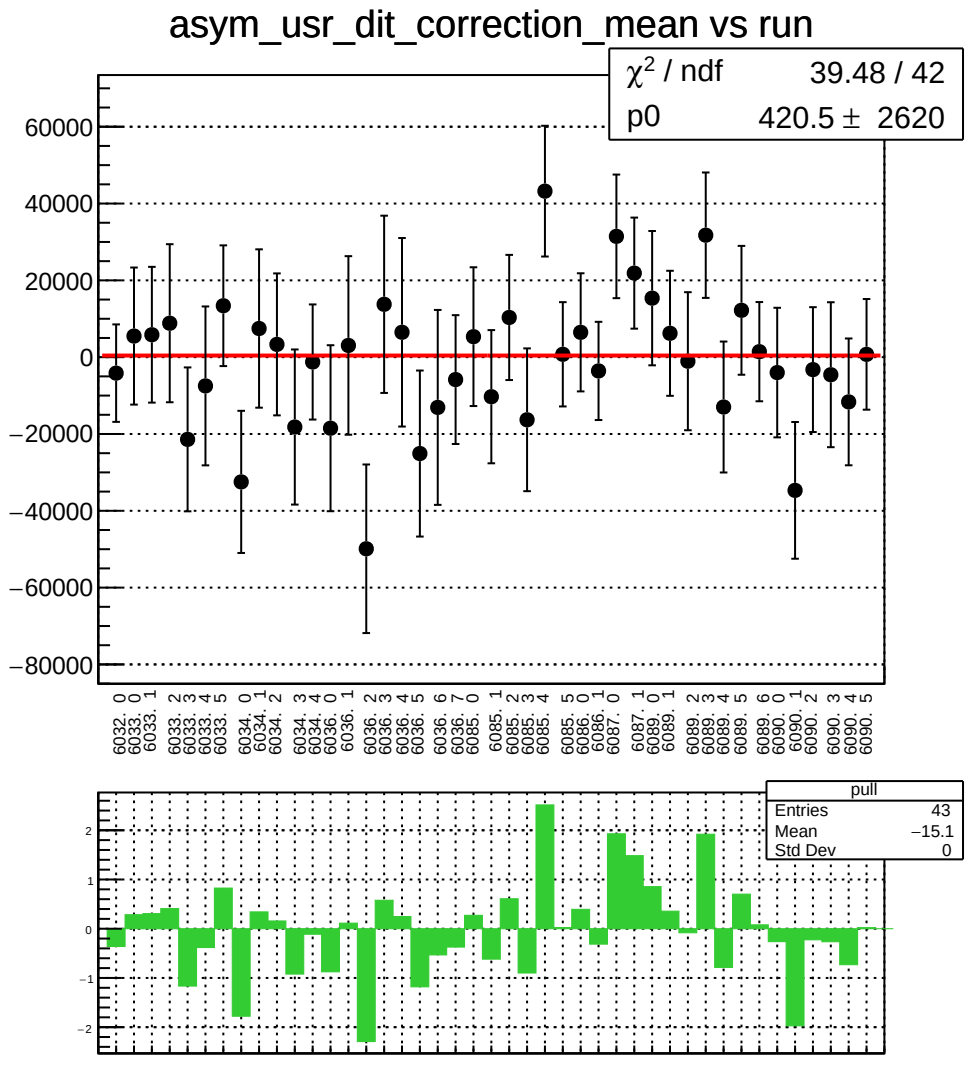

eigen_cor_asym_usr_rms vs run
χ² / ndf 1118 / 42
p0 1116 ± 1.195
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

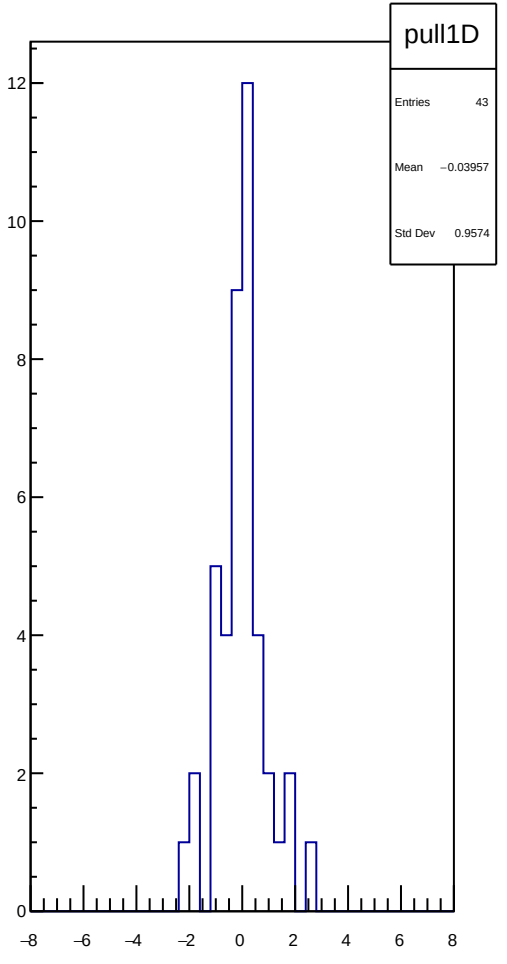

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 39.83 / 42
p0 706.1 ± 2576
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04098
Std Dev 0.9616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

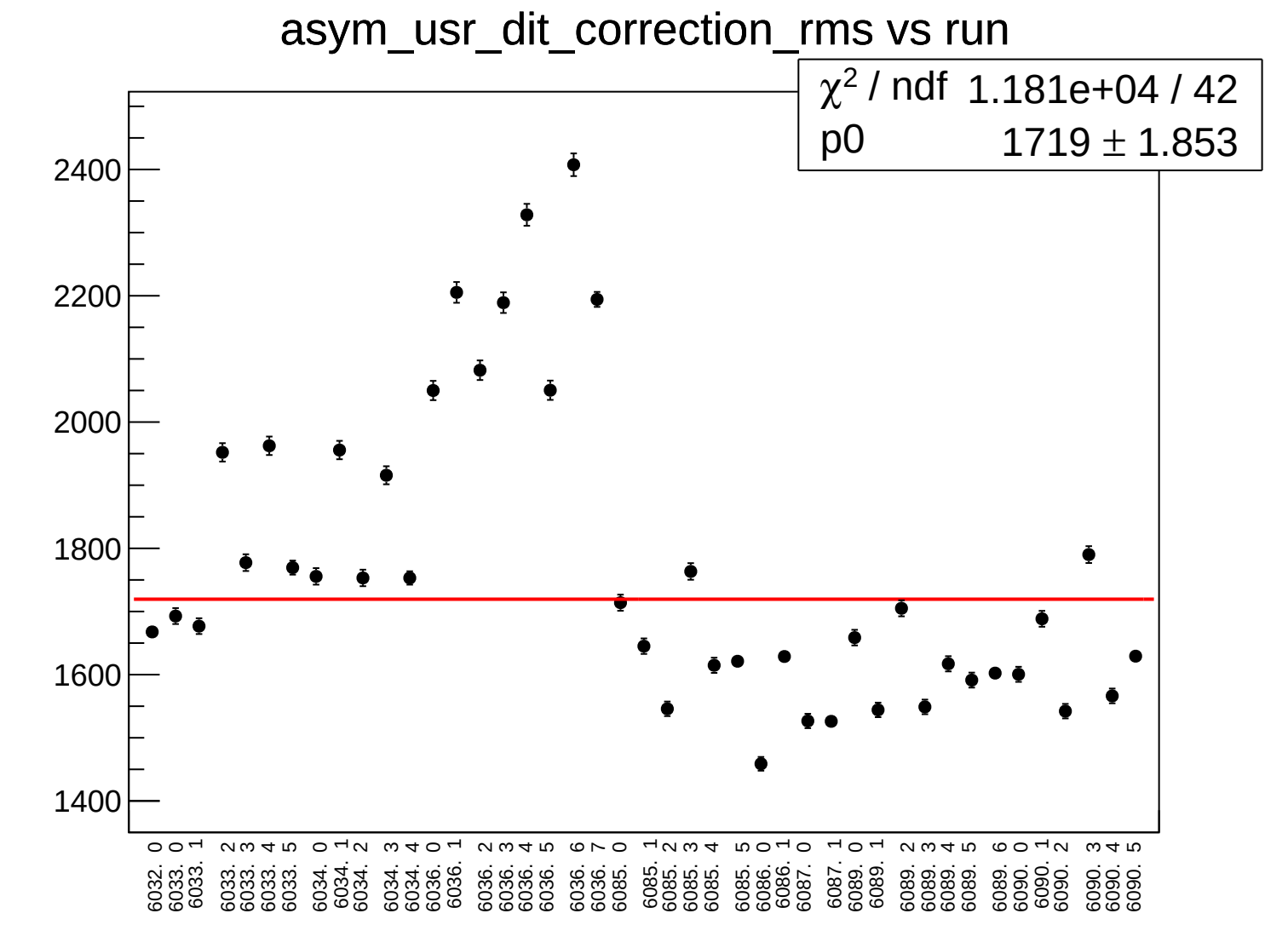

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.218e+04 / 42
p0 1690 ± 1.822
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

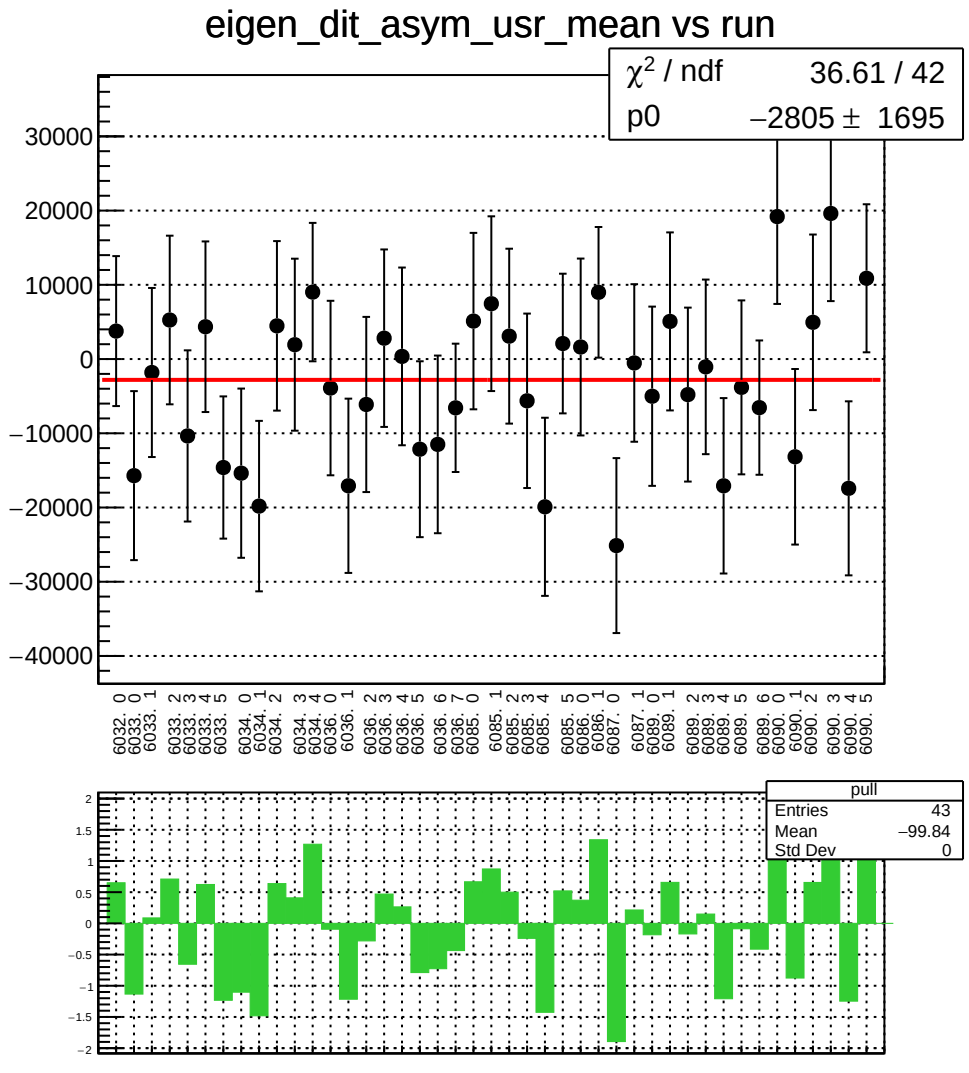

dit_asym_usr_mean vs run
χ² / ndf 36.61 / 42
p0 −2805 ± 1695
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −99.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01585
Std Dev 0.9225
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

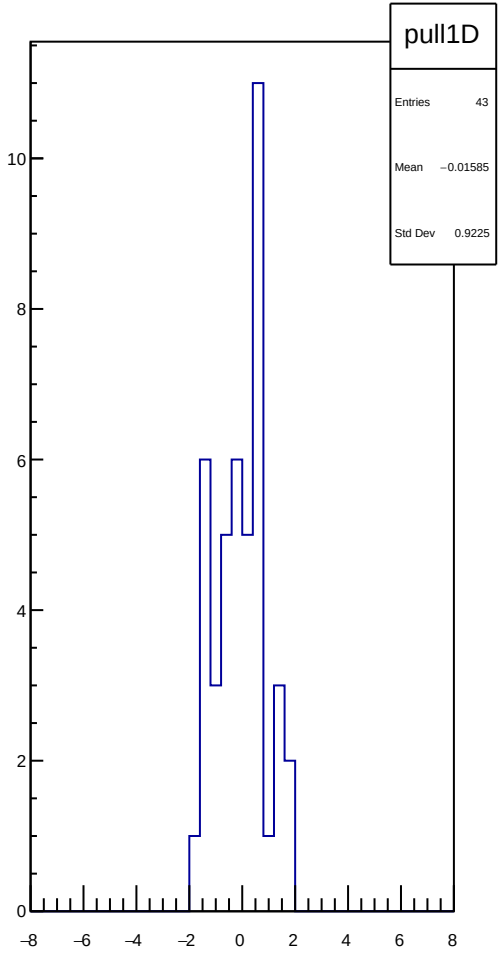

dit_asym_usr_rms vs run
χ² / ndf 1105 / 42
p0 1119 ± 1.199
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

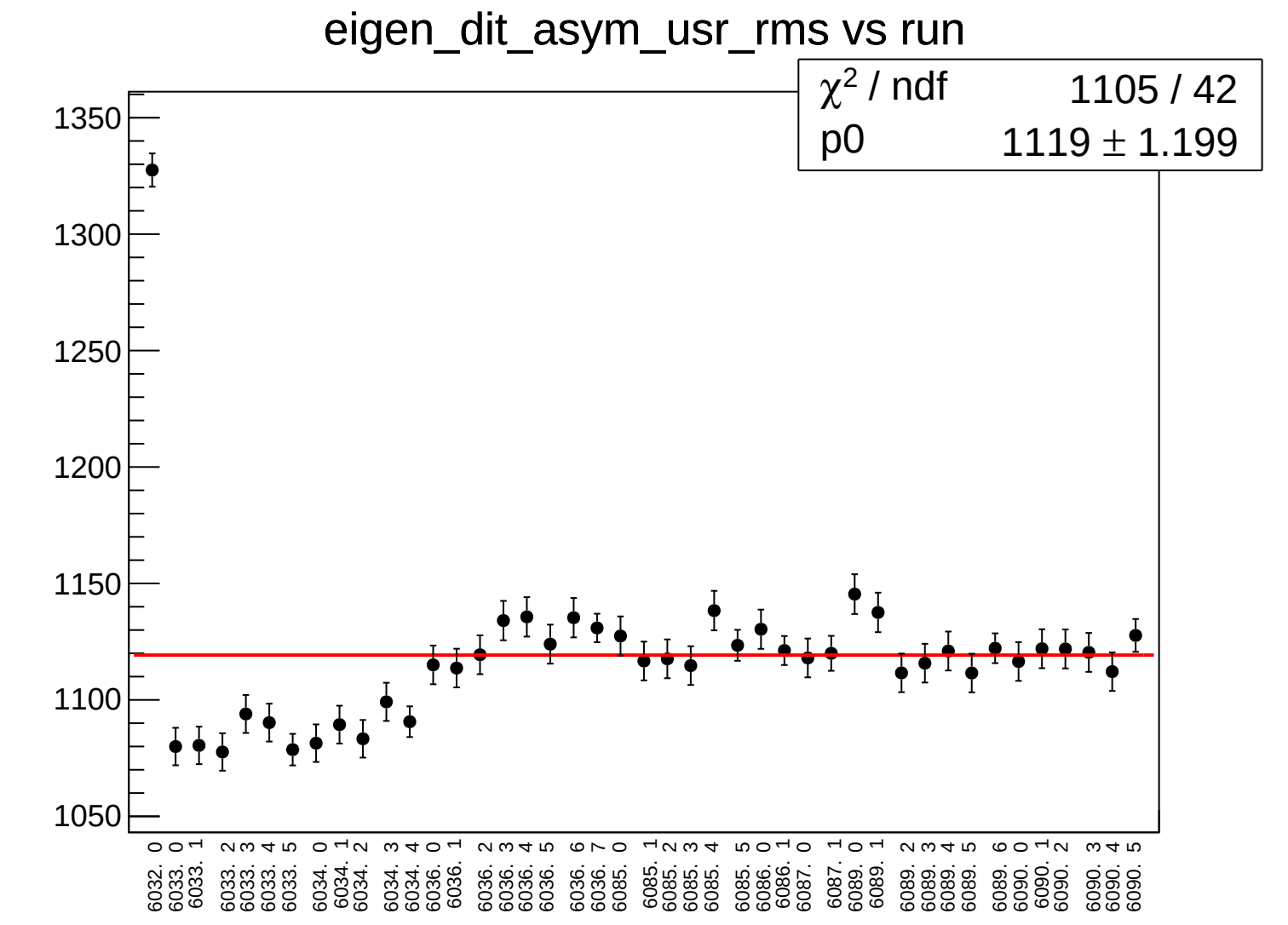

asym_usr_dit_correction_mean vs run
χ² / ndf 39.48 / 42
p0 420.5 ± 2620
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −15.1
Std Dev 0
2
1
0
−1
−2

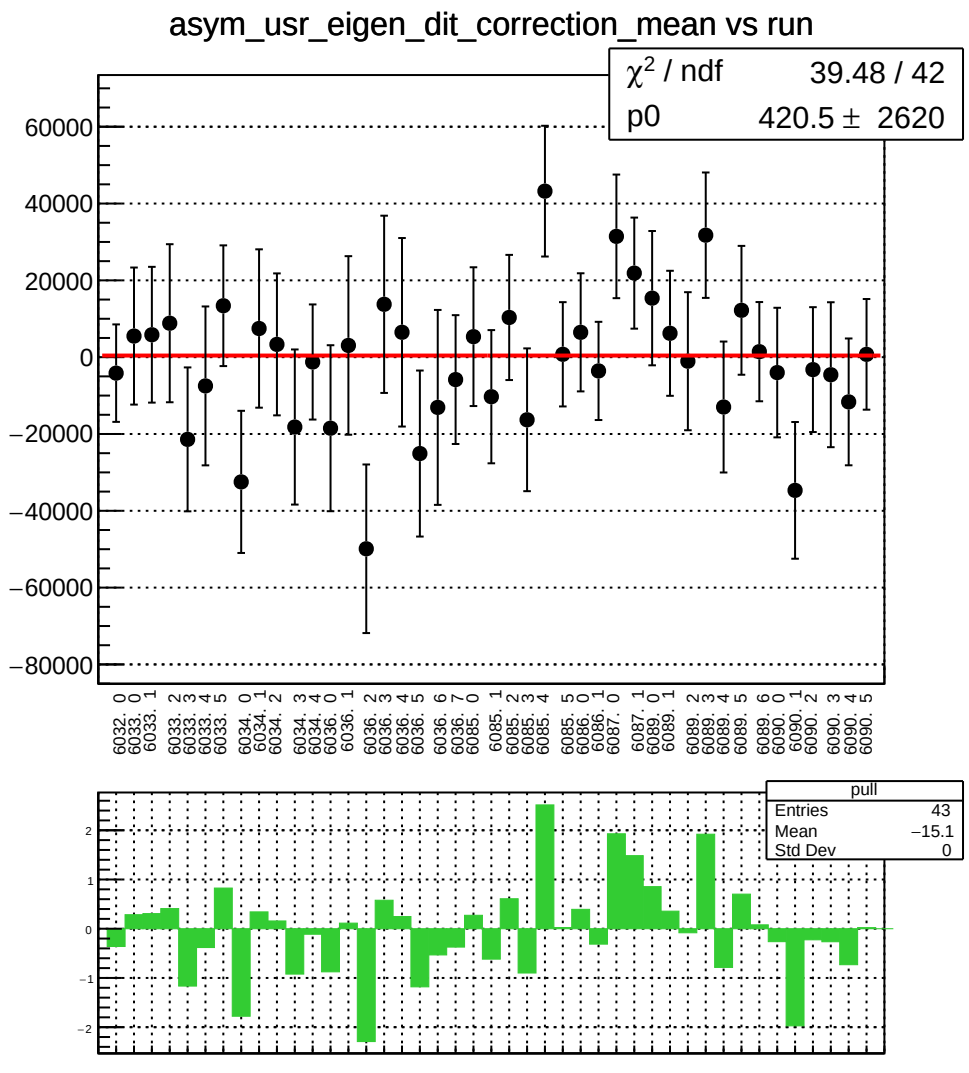

pull1D
Entries 43
Mean −0.03957
Std Dev 0.9574
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

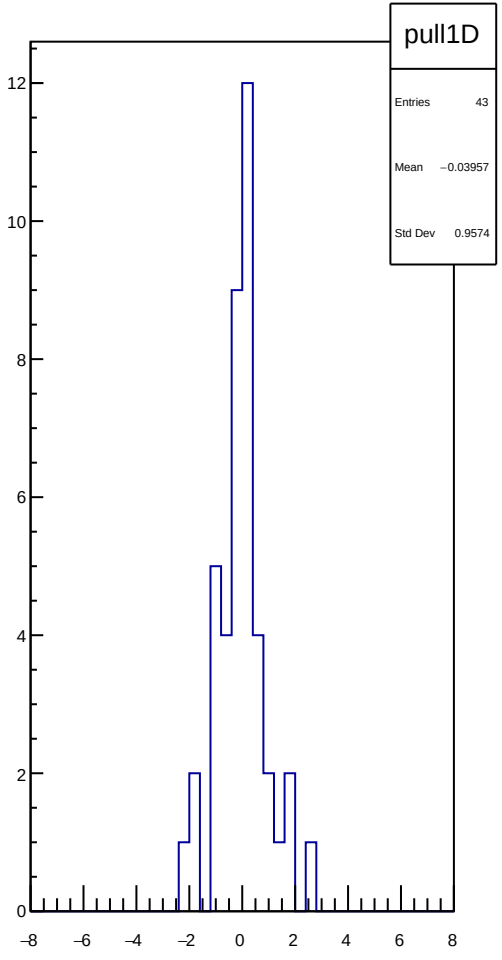

asym_usr_dit_correction_rms vs run
χ² / ndf 1.181e+04 / 42
p0 1719 ± 1.853
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

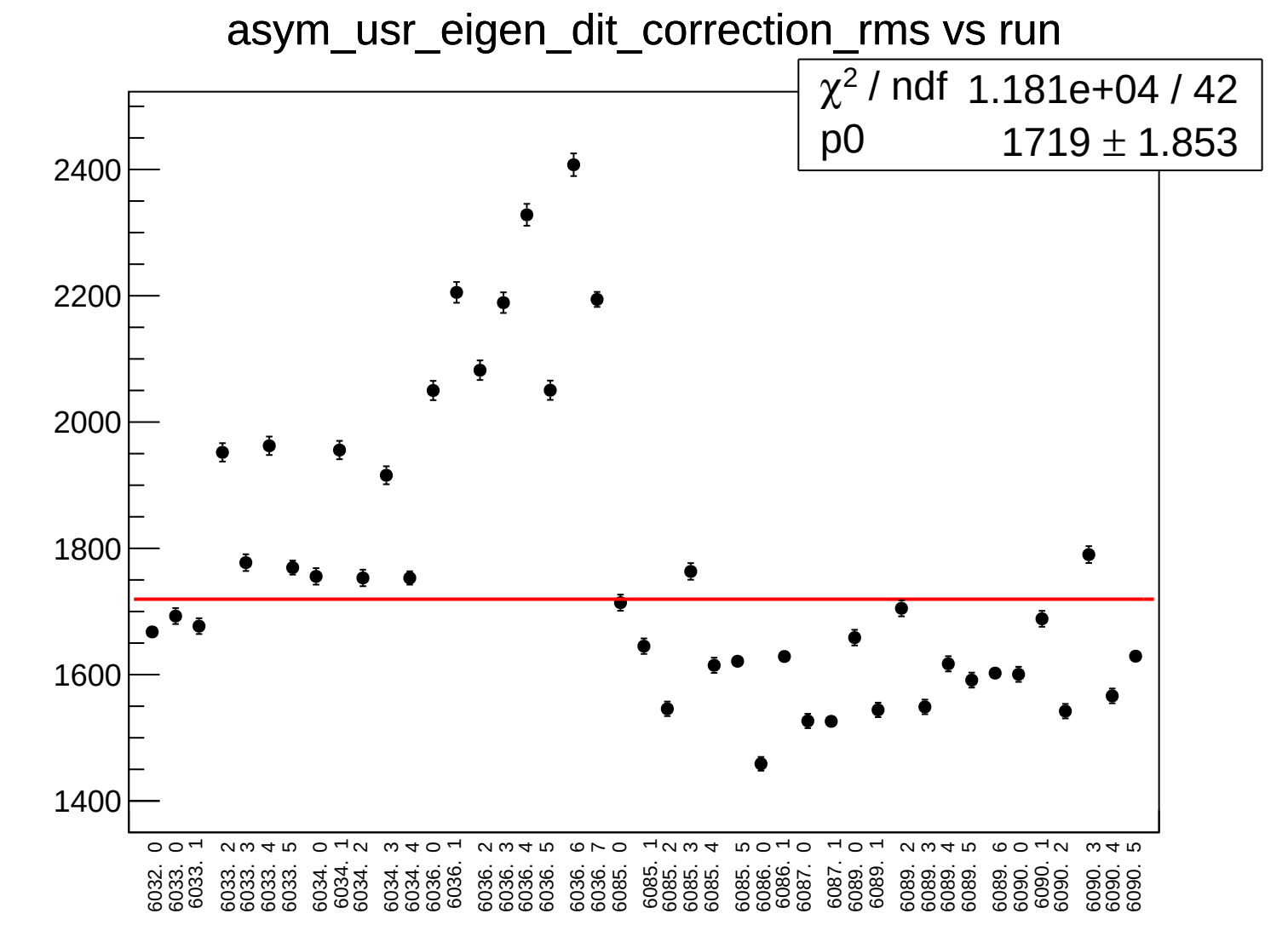

eigen_dit_asym_usr_mean vs run
χ² / ndf 36.61 / 42
p0 −2805 ± 1695
pull
Entries 43
Mean −99.84
Std Dev 0

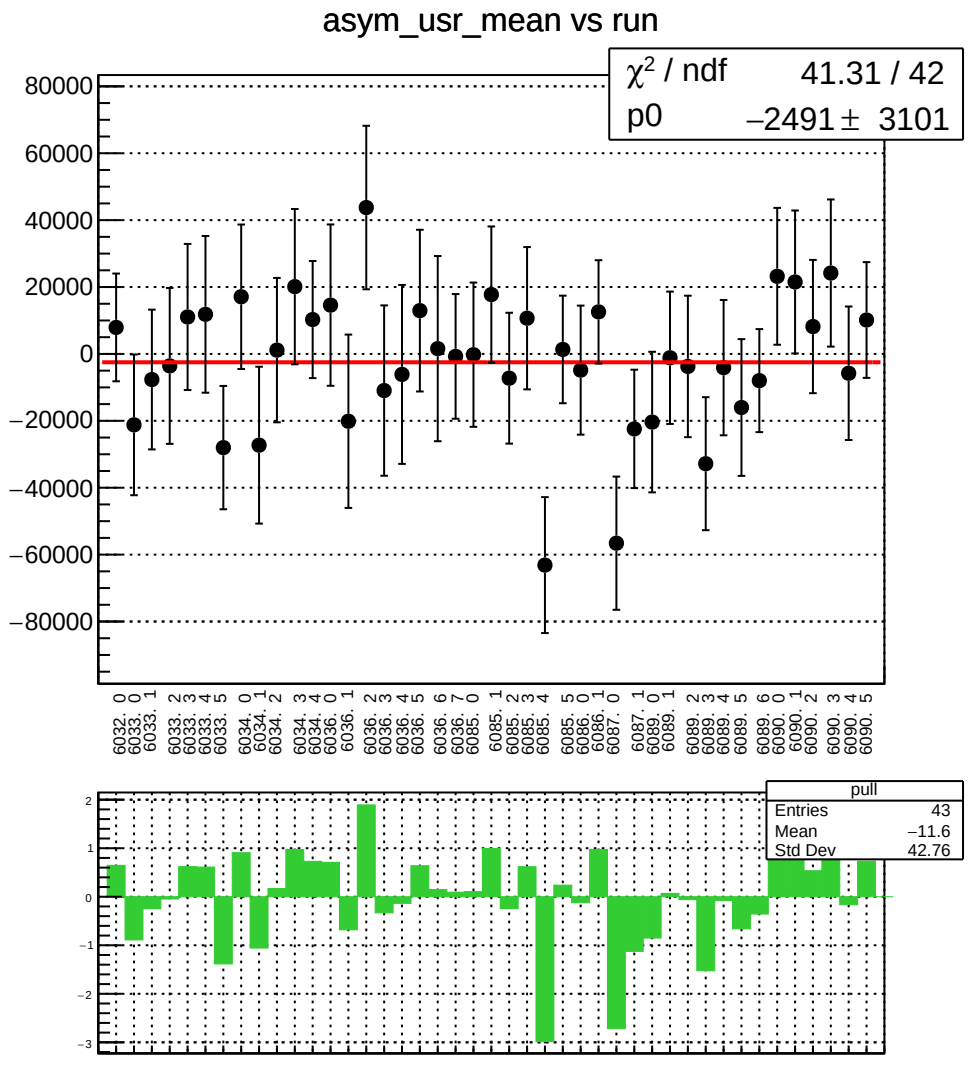

pull1D
Entries 43
Mean −0.01585
Std Dev 0.9225

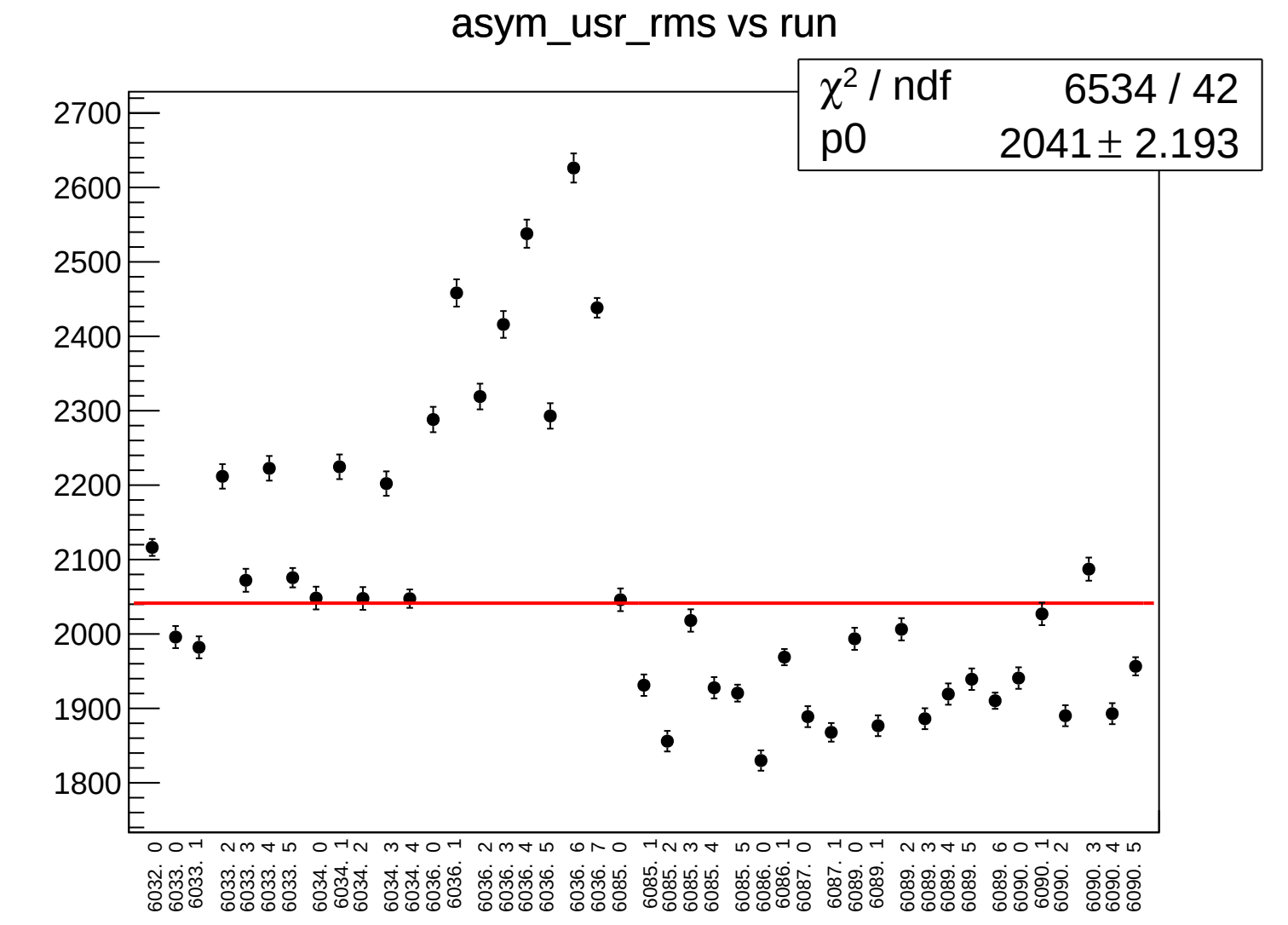

eigen_dit_asym_usr_rms vs run
χ² / ndf 1105 / 42
p0 1119 ± 1.199
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

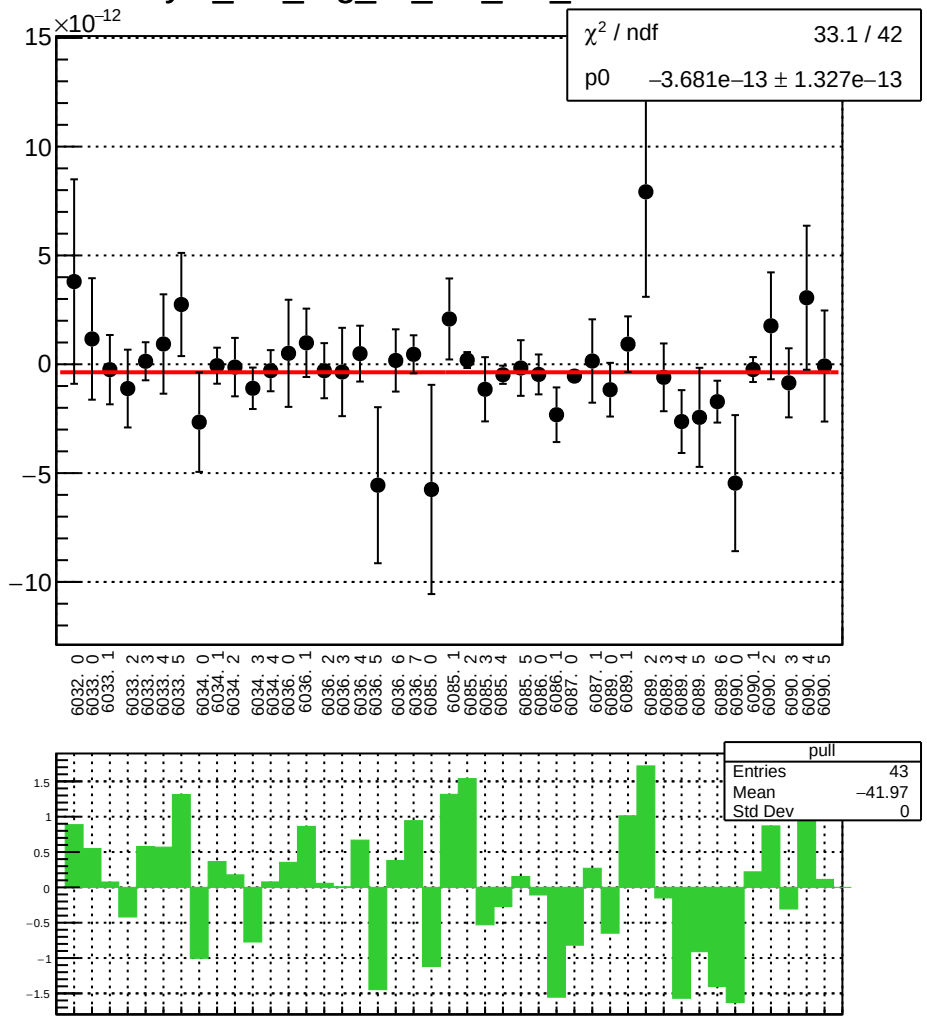

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 39.48 / 42
p0 420.5 ± 2620
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −15.1
Std Dev 0
2
1
0
−1
−2

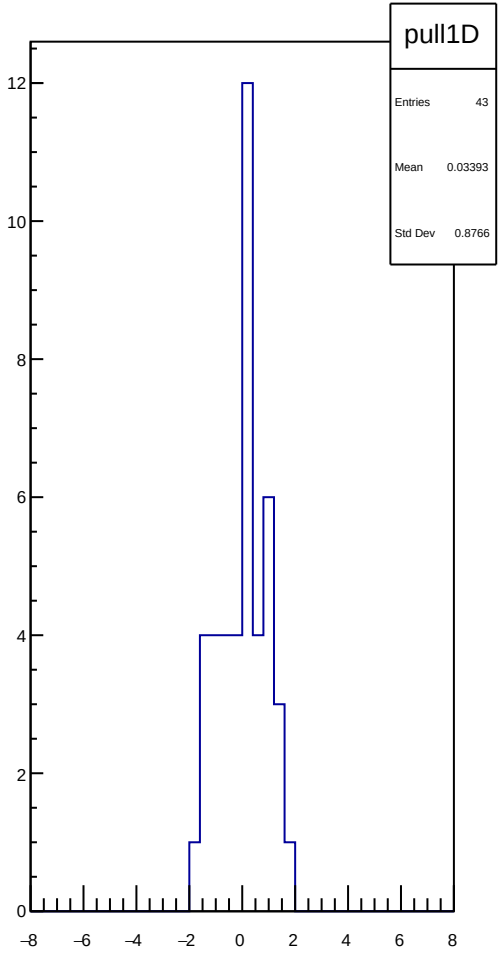

pull1D
Entries 43
Mean −0.03957
Std Dev 0.9574
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

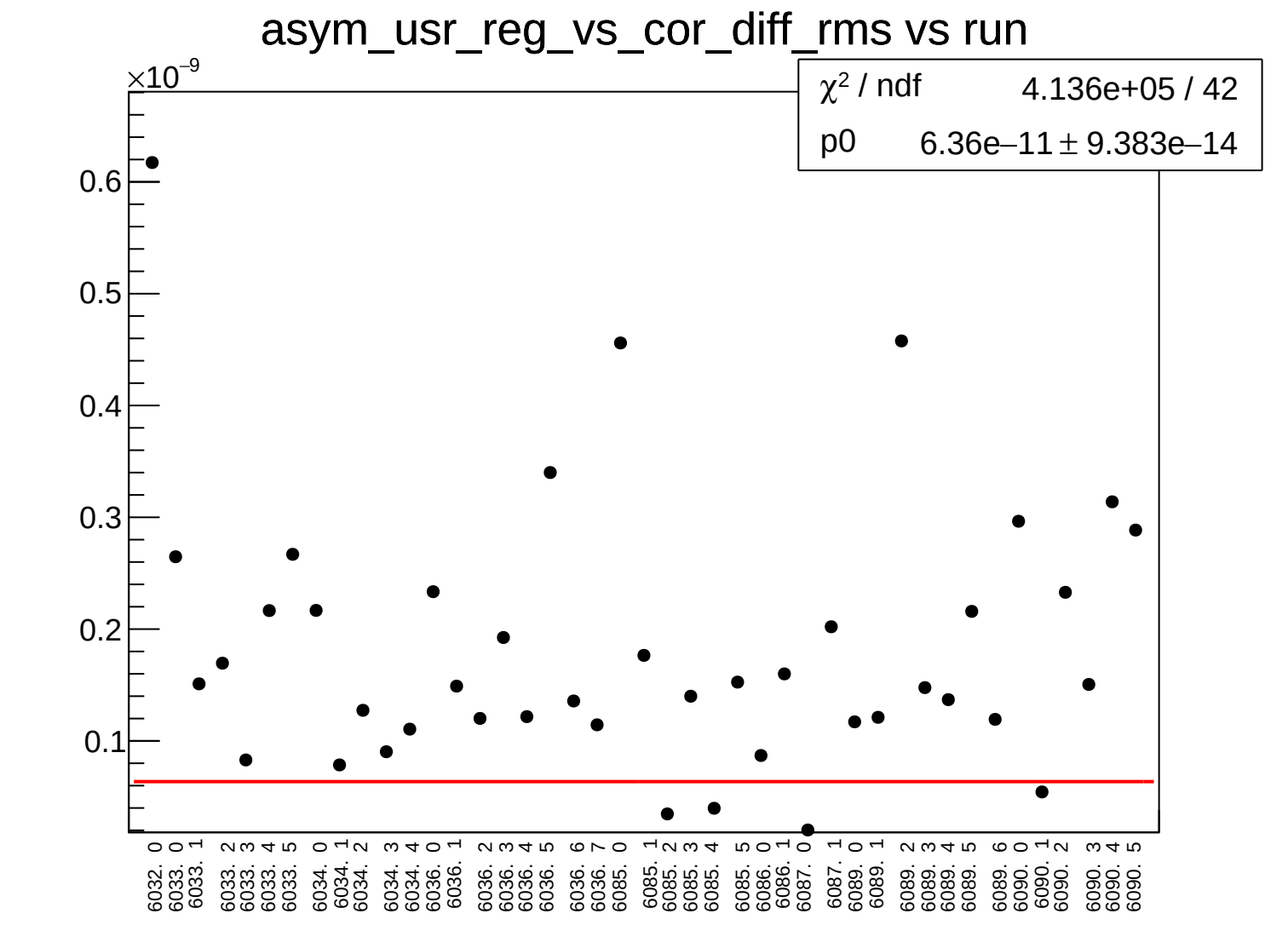

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.181e+04 / 42
p0 1719 ± 1.853
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

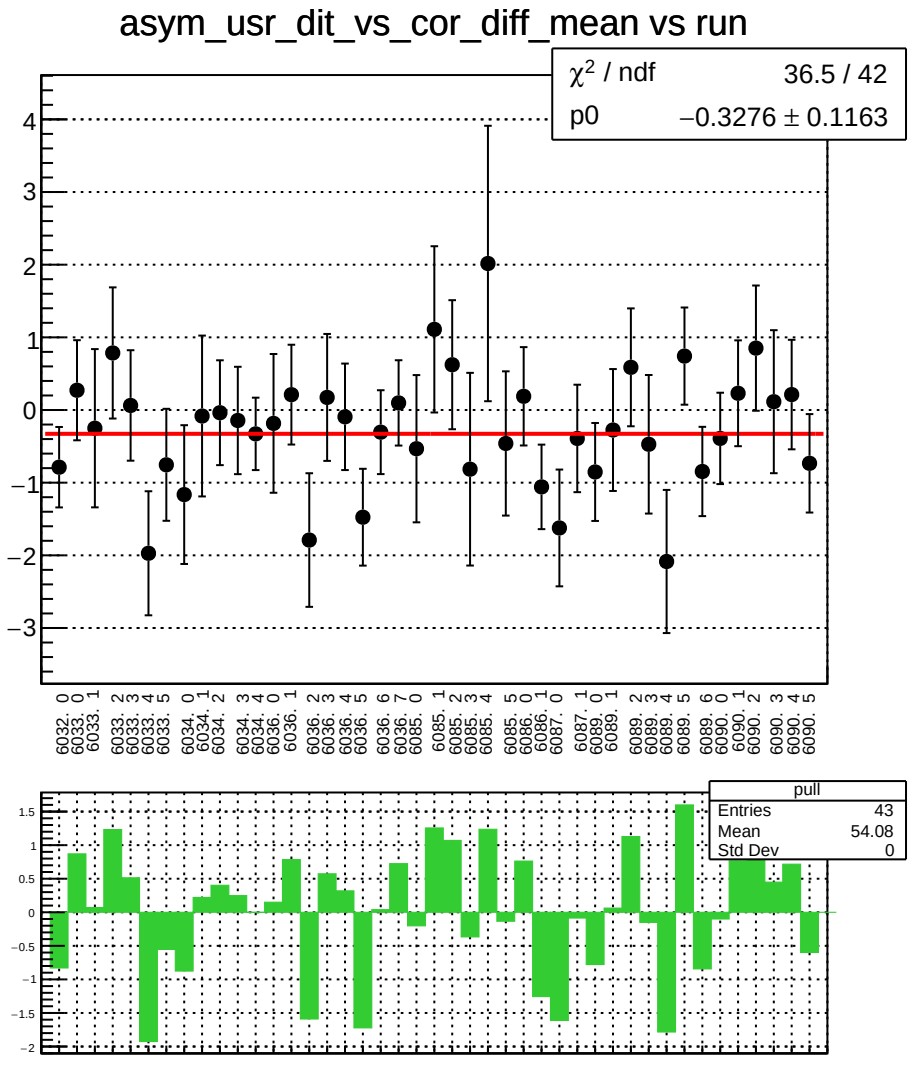

asym_usr_mean vs run
χ² / ndf 41.31 / 42
p0 −2491 ± 3101
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −11.6
Std Dev 42.76
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.00775
Std Dev 0.9802
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

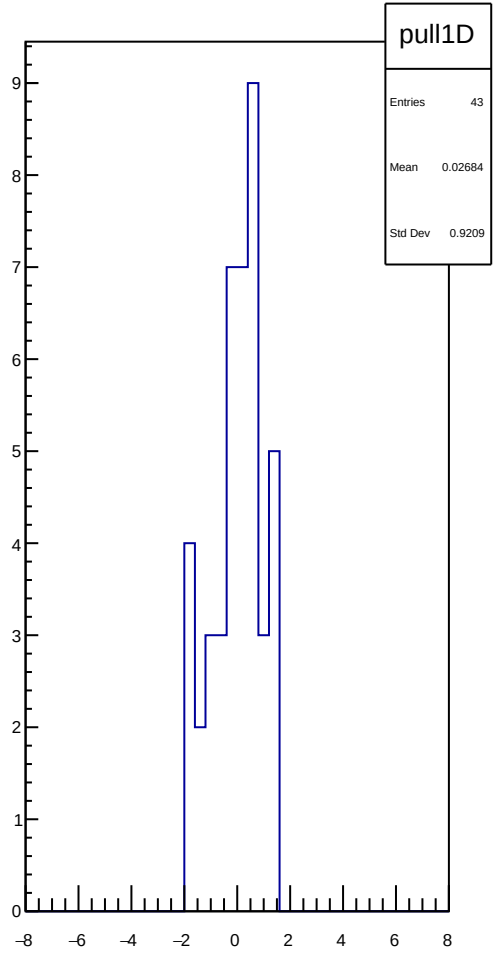

asym_usr_rms vs run
χ² / ndf 6534 / 42
p0 2041 ± 2.193
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

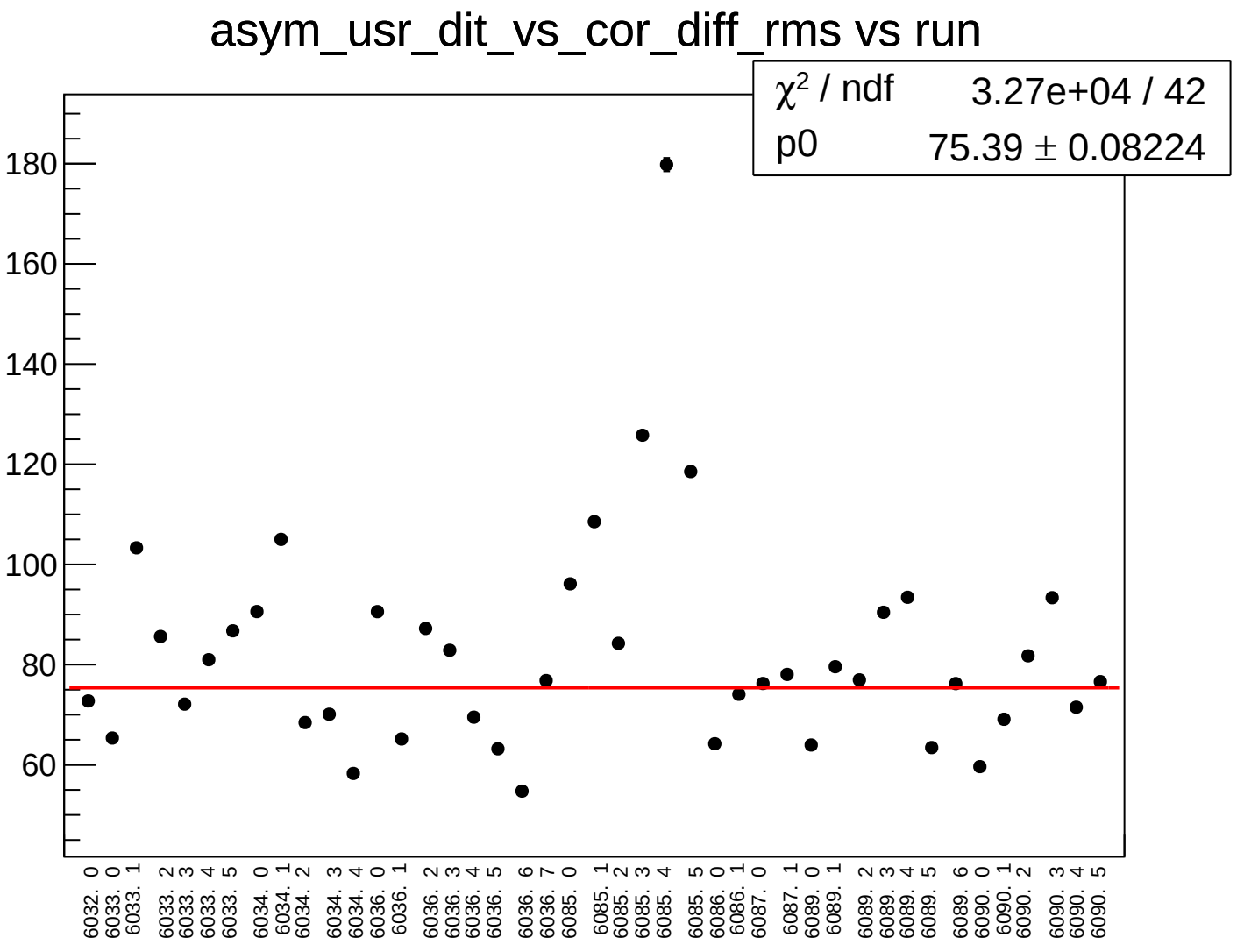

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.1 / 42
p0 −3.681e−13 ± 1.327e−13
pull
Entries 43
Mean −41.97
Std Dev 0

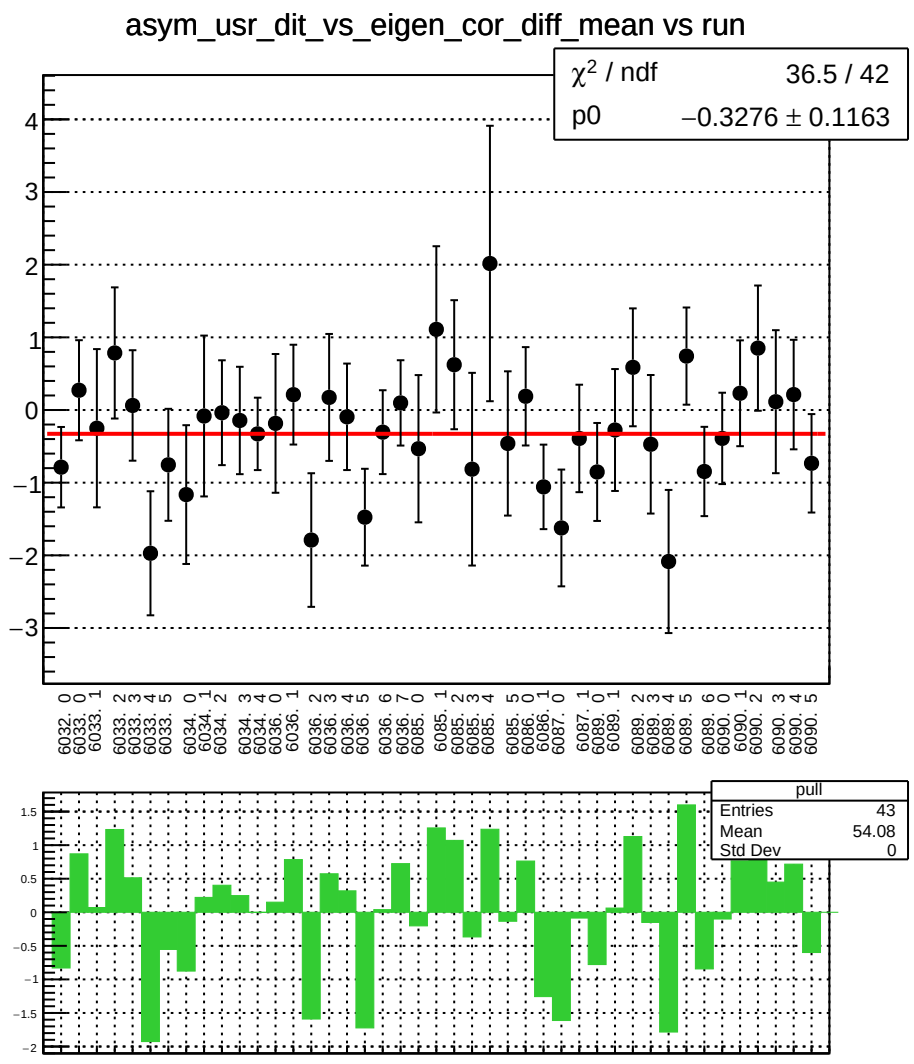

pull1D
Entries 43
Mean 0.03393
Std Dev 0.8766

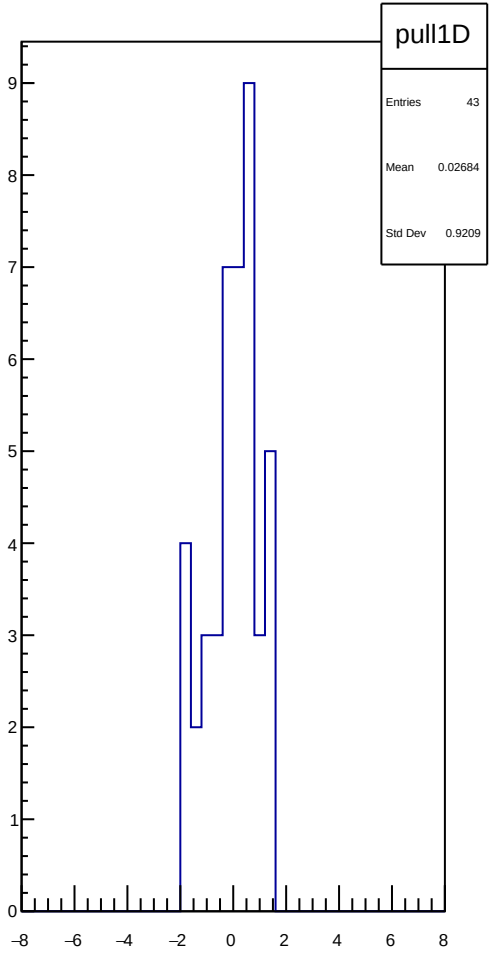

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.136e+05 / 42
p0 6.36e−11 ± 9.383e−14
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

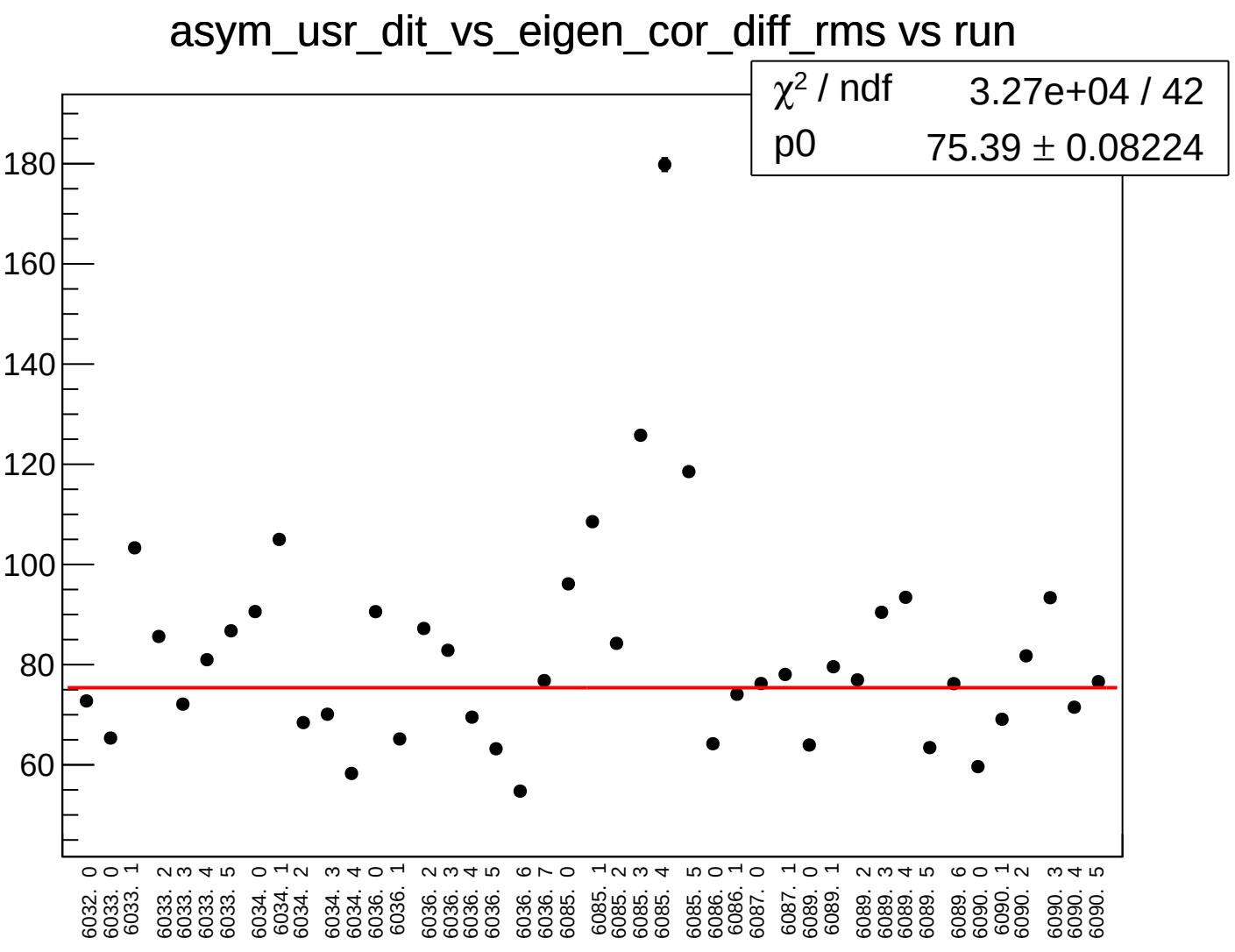

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 36.5 / 42
p0 −0.3276 ± 0.1163
pull
Entries 43
Mean 54.08
Std Dev 0

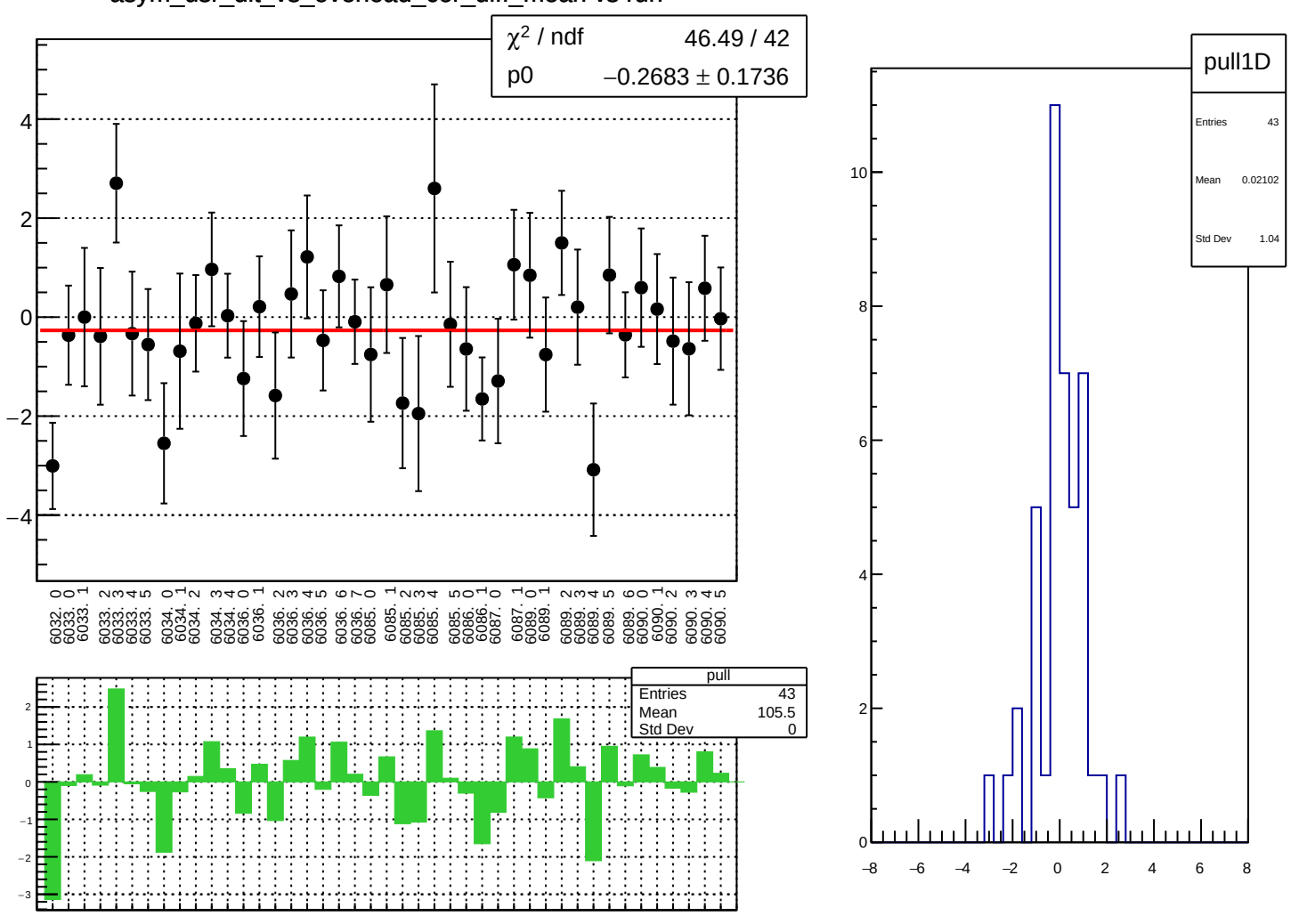

pull1D
Entries 43
Mean 0.02684
Std Dev 0.9209

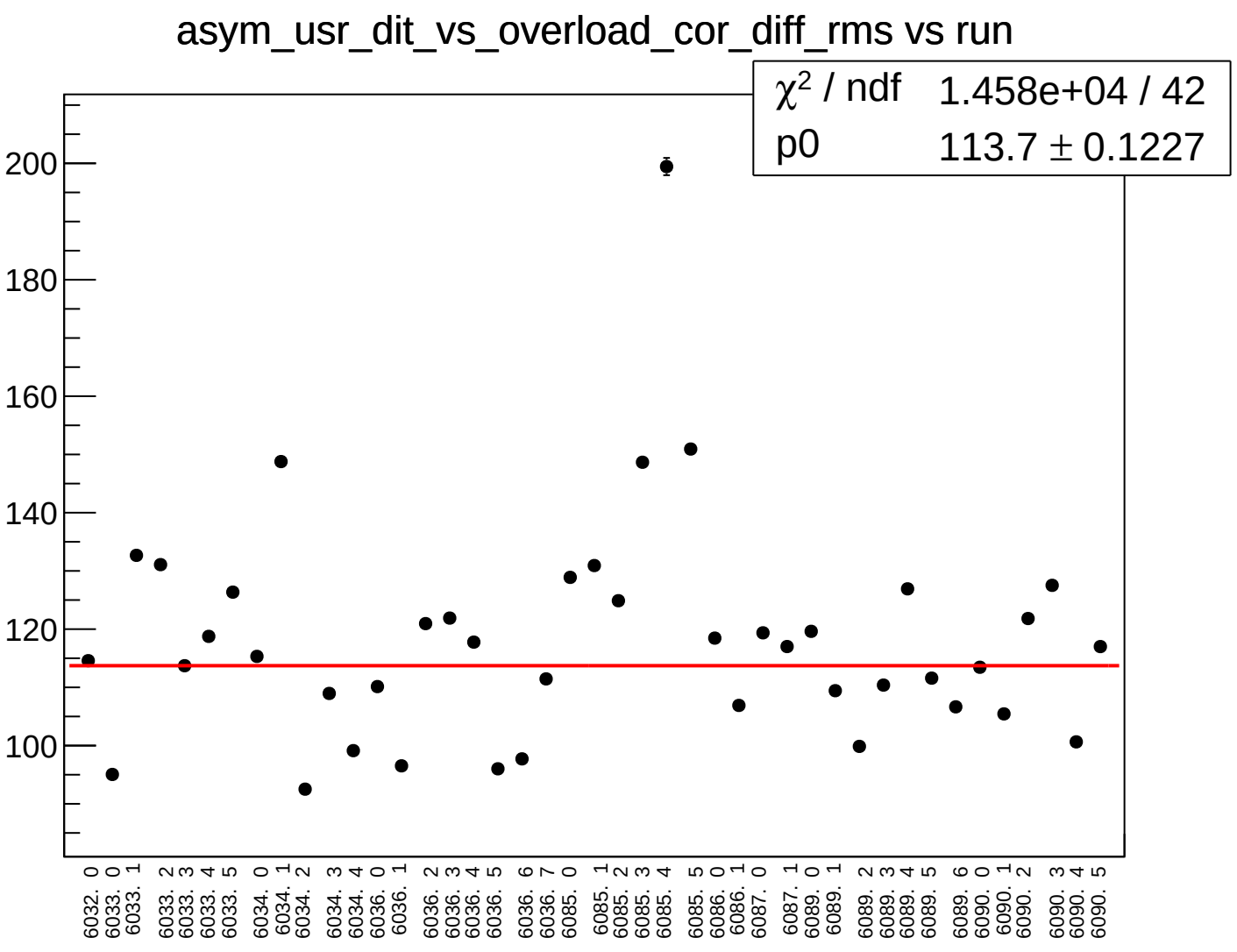

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.27e+04 / 42
p0 75.39 ± 0.08224
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

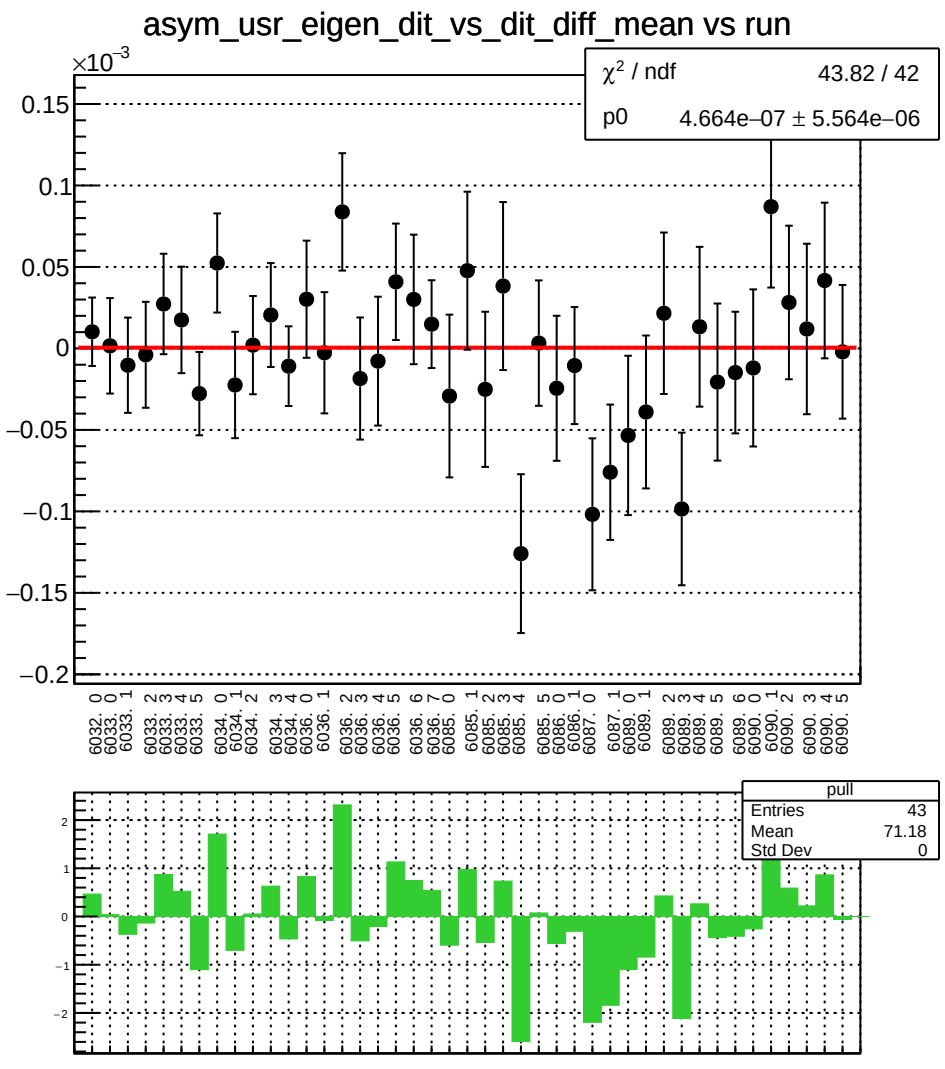

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.5 / 42
p0 −0.3276 ± 0.1163
pull
Entries 43
Mean 54.08
Std Dev 0

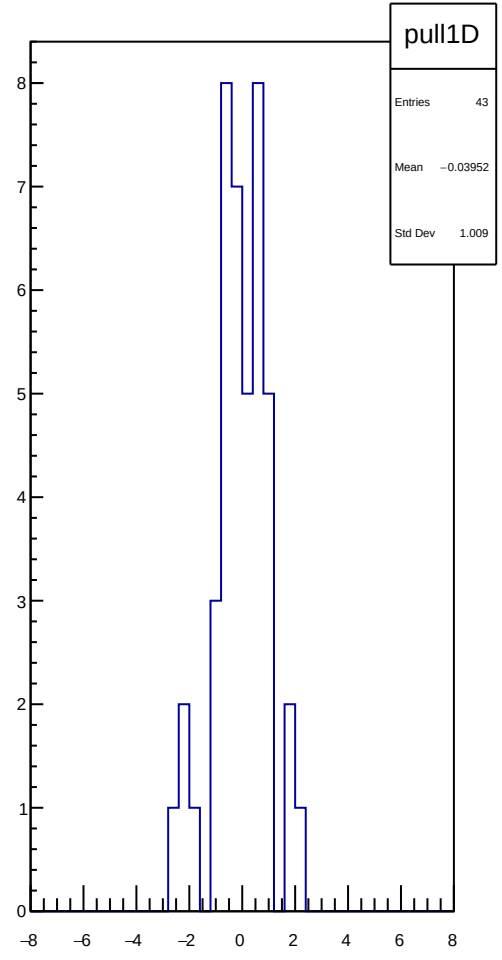

pull1D
Entries 43
Mean 0.02684
Std Dev 0.9209

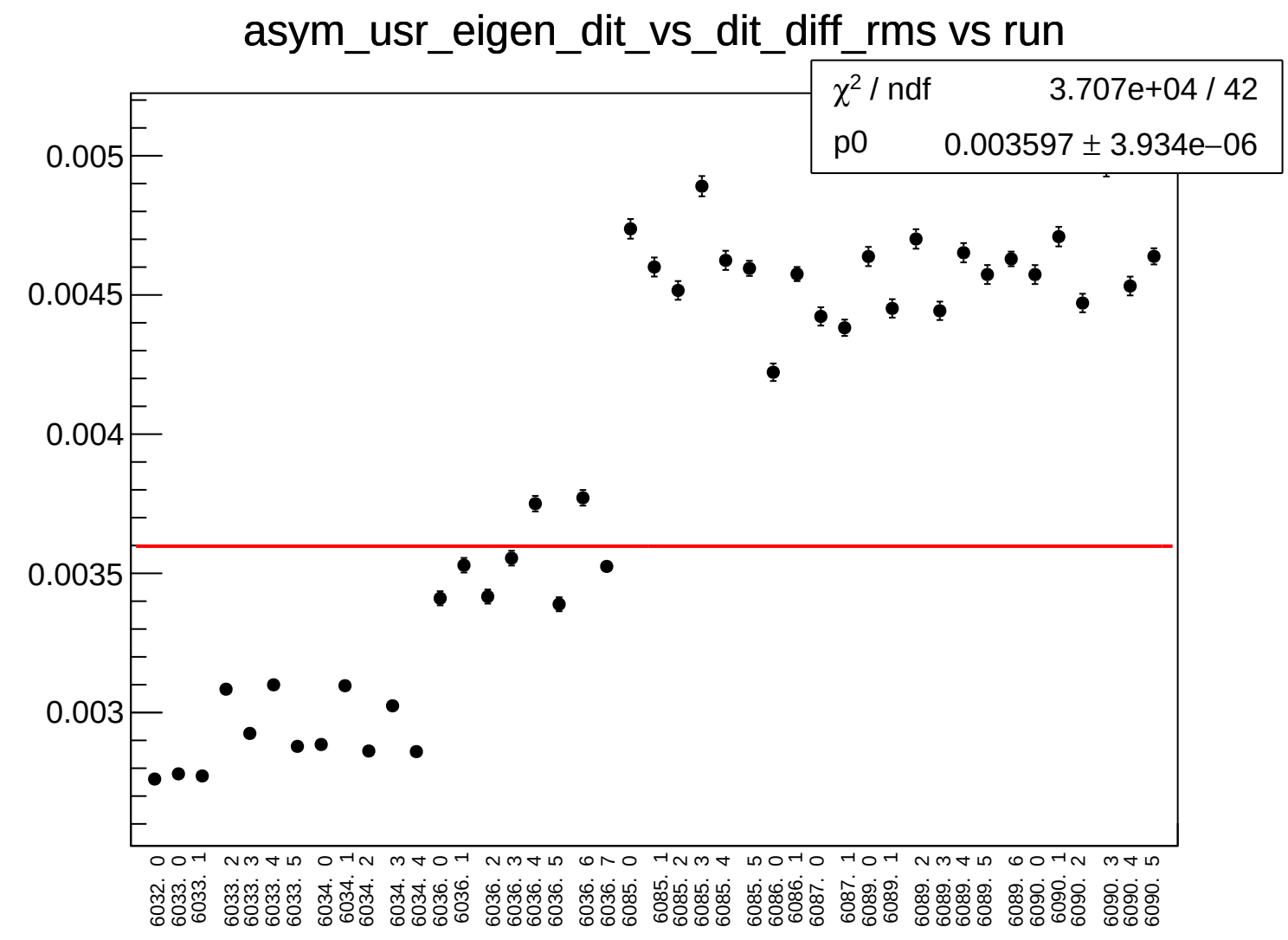

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.27e+04 / 42
p0 75.39 ± 0.08224
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

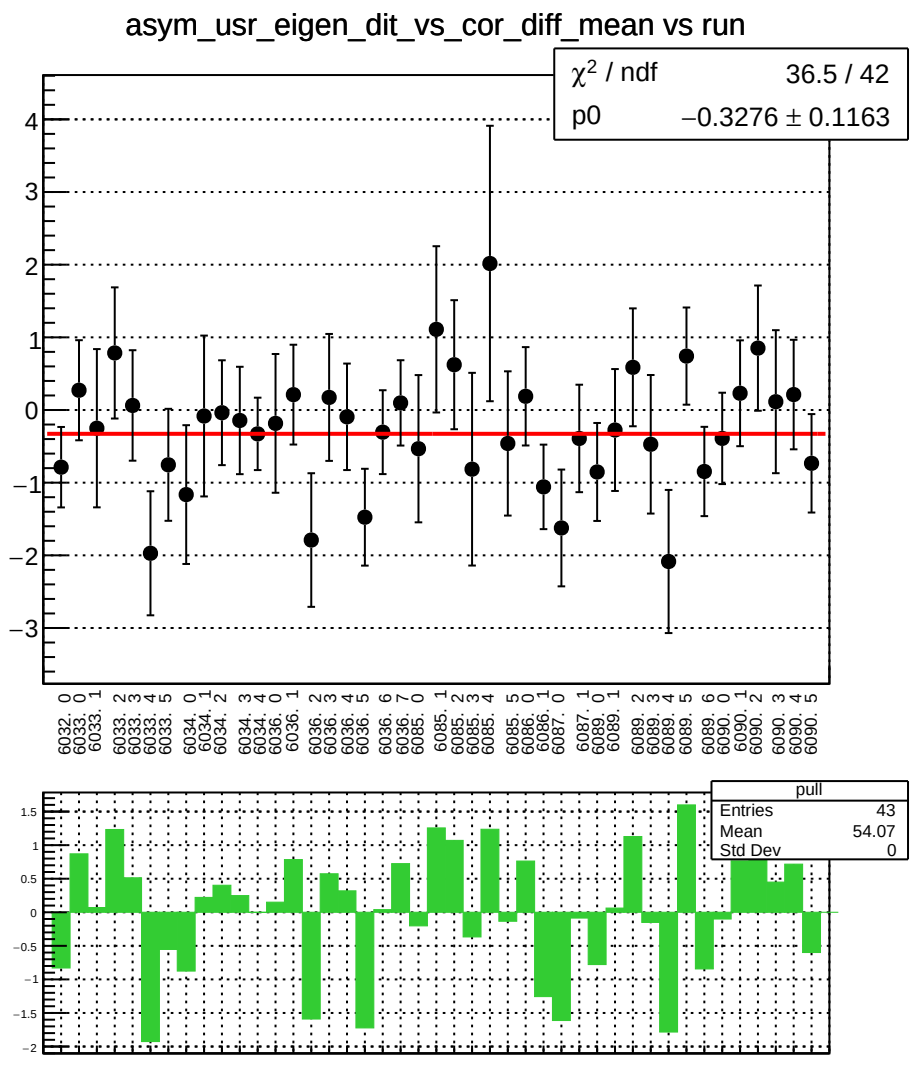

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 46.49 / 42
p0 −0.2683 ± 0.1736
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 105.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.02102
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

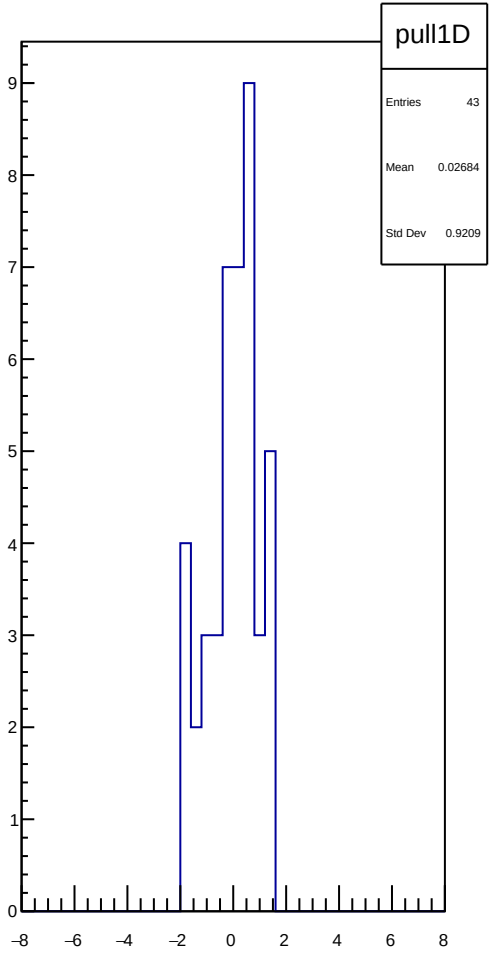

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 42
p0 113.7 ± 0.1227
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

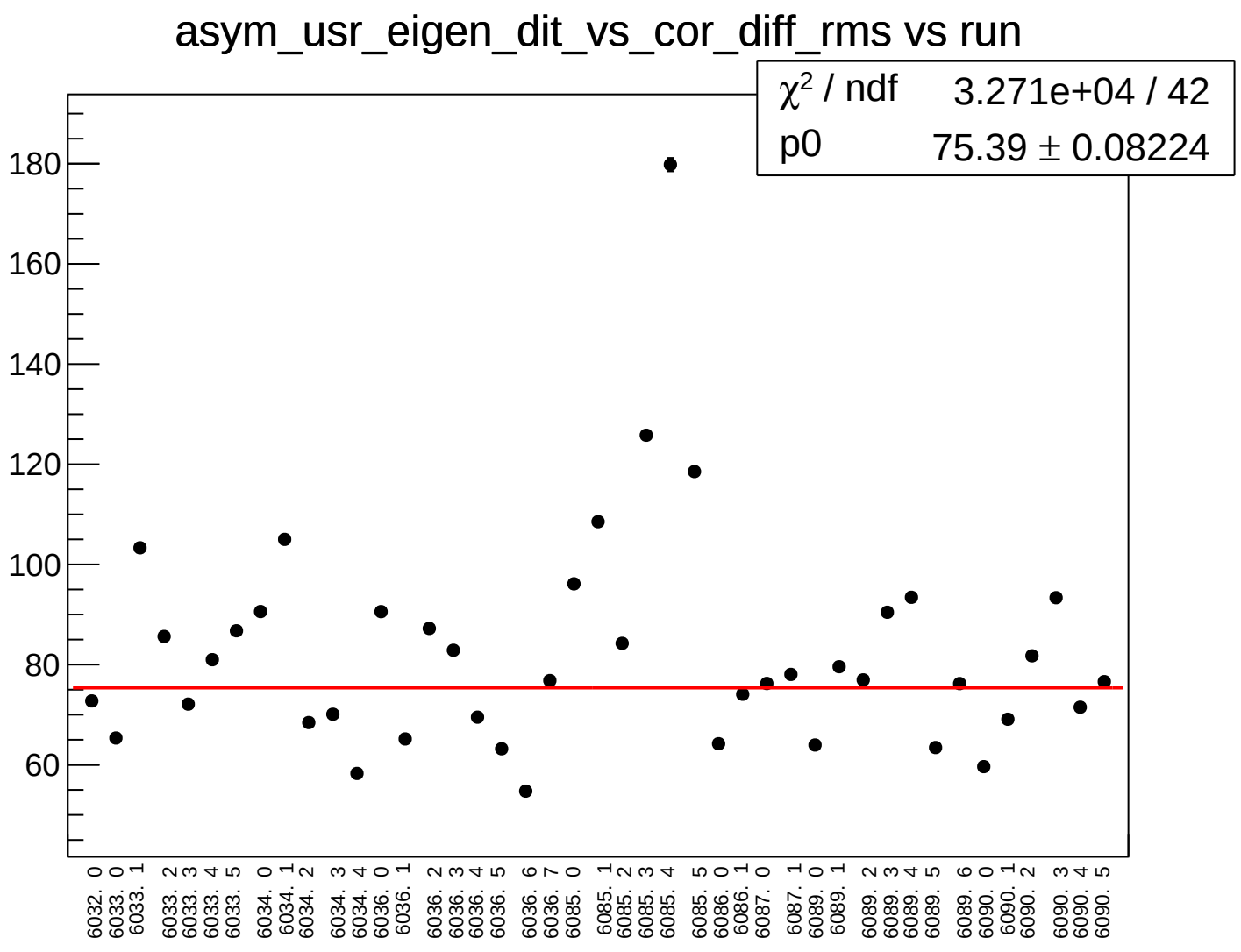

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.82 / 42
p0 4.664e−07 ± 5.564e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 71.18
Std Dev 0
2
1
0
−1
−2

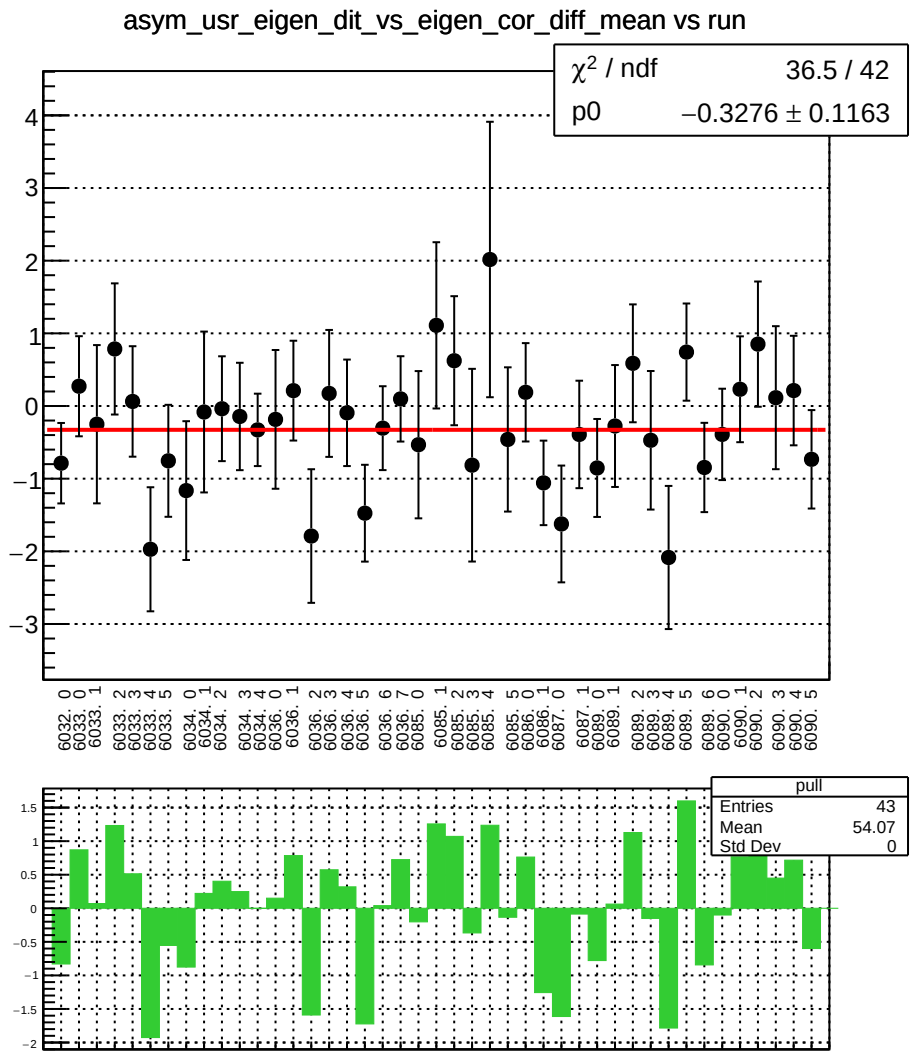

pull1D
Entries 43
Mean −0.03952
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

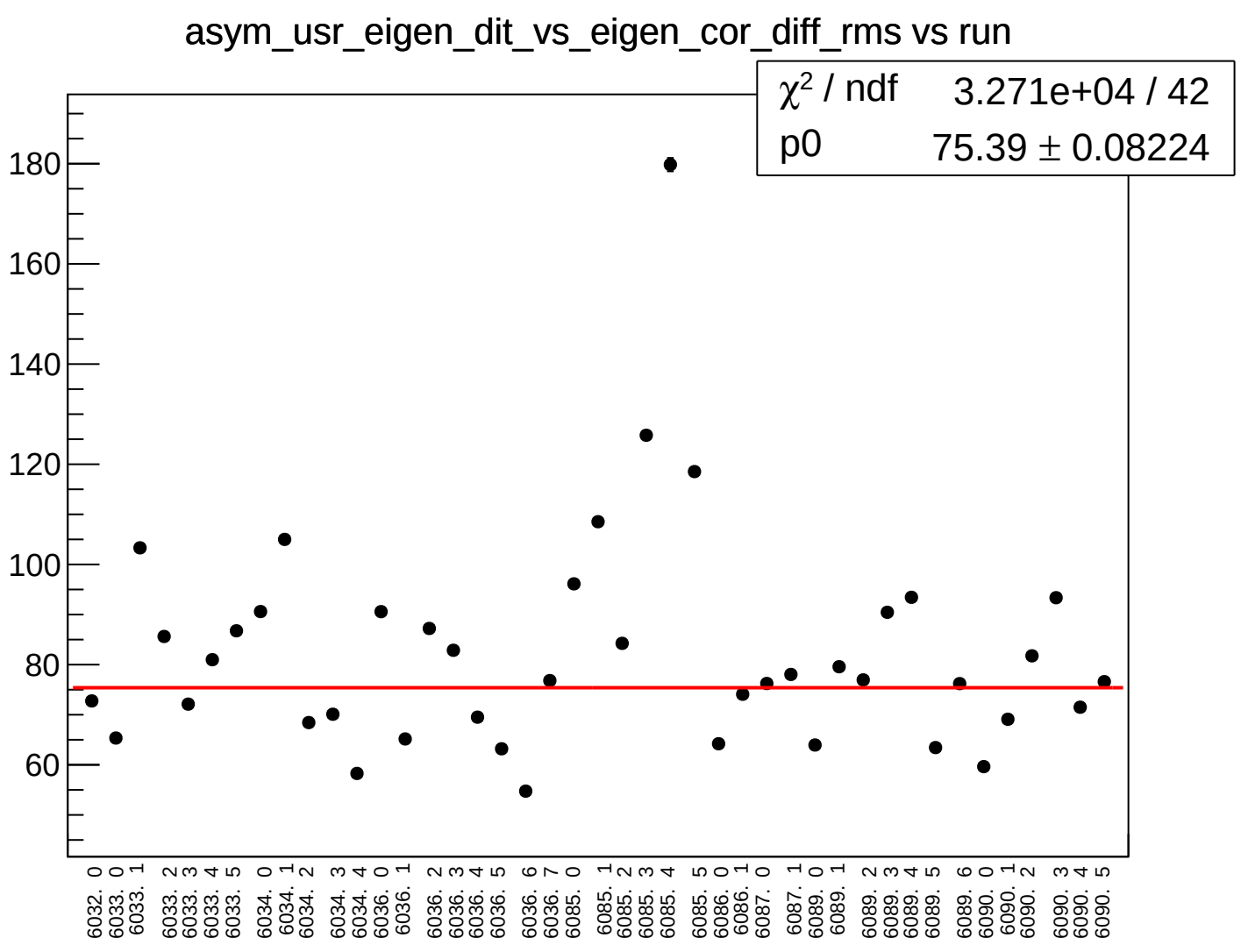

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.707e+04 / 42
p0 0.003597 ± 3.934e−06
0.005
0.0045
0.004
0.0035
0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.5 / 42
p0 −0.3276 ± 0.1163
pull
Entries 43
Mean 54.07
Std Dev 0

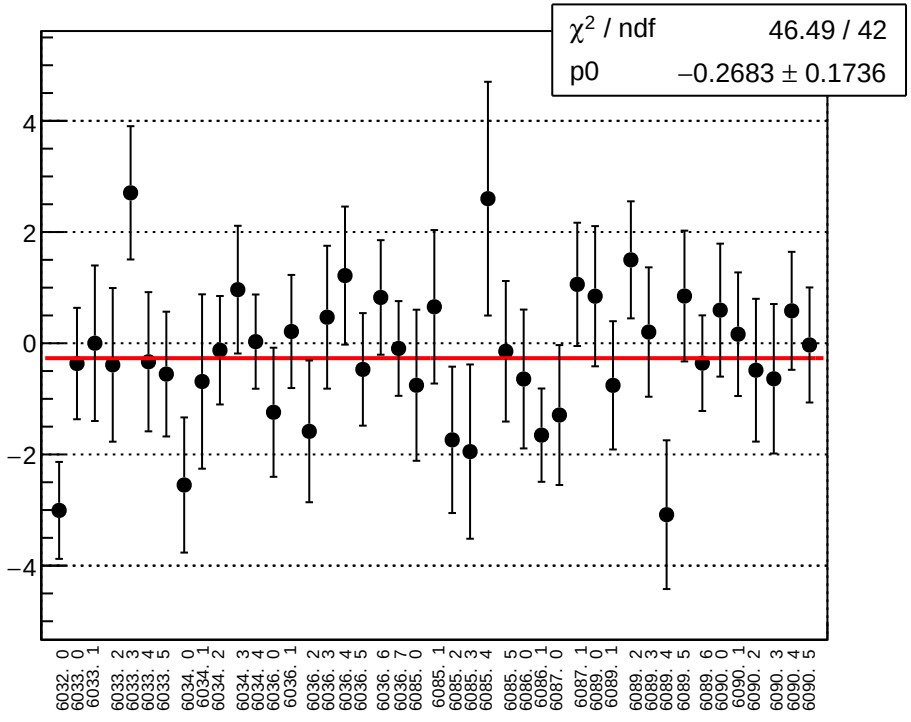

pull1D
Entries 43
Mean 0.02684
Std Dev 0.9209

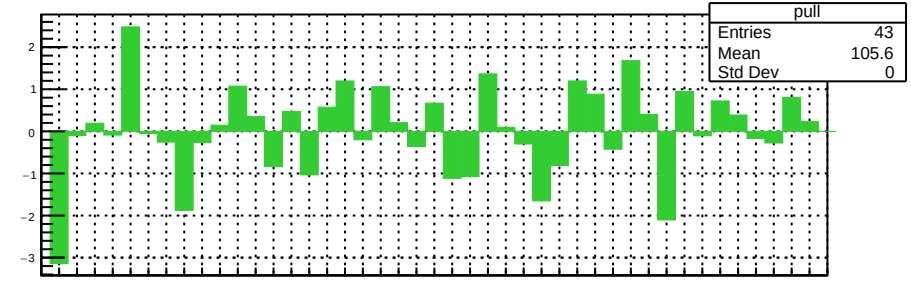

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.271e+04 / 42
p0 75.39 ± 0.08224
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

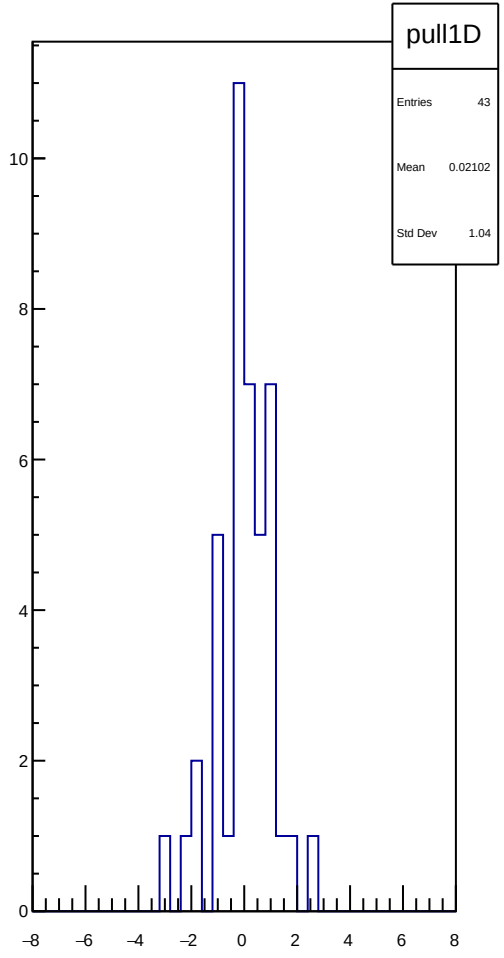

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.5 / 42
p0 −0.3276 ± 0.1163
pull
Entries 43
Mean 54.07
Std Dev 0
pull1D
Entries 43
Mean 0.02684
Std Dev 0.9209

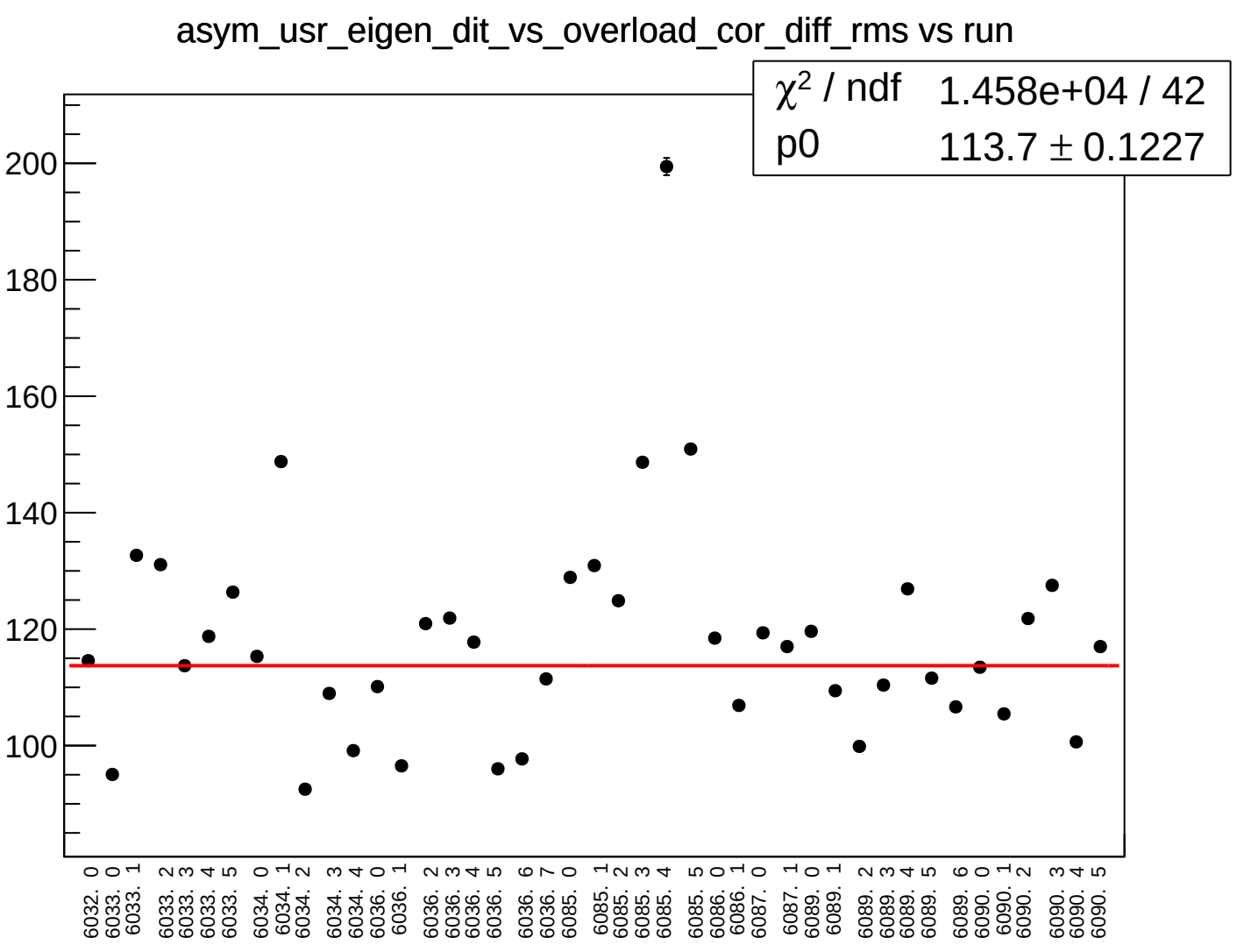

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.271e+04 / 42
p0 75.39 ± 0.08224
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

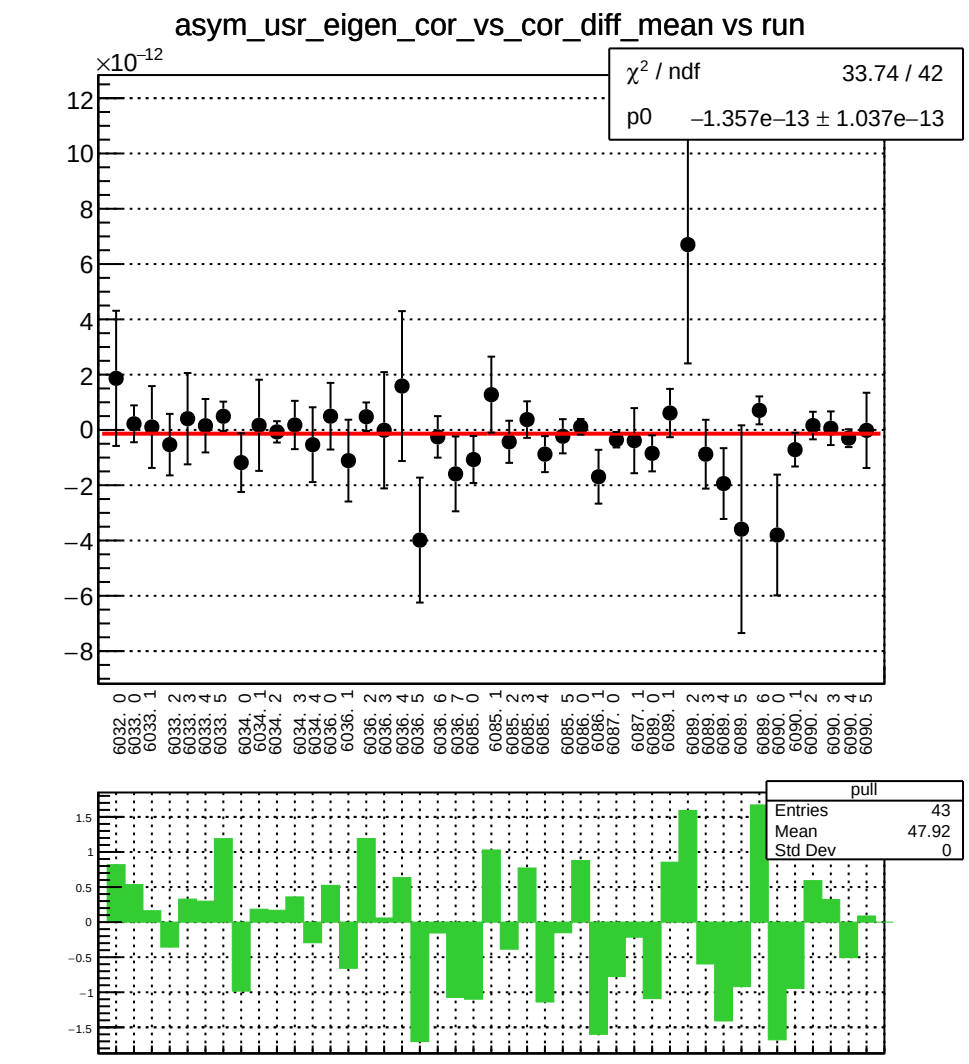
asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run

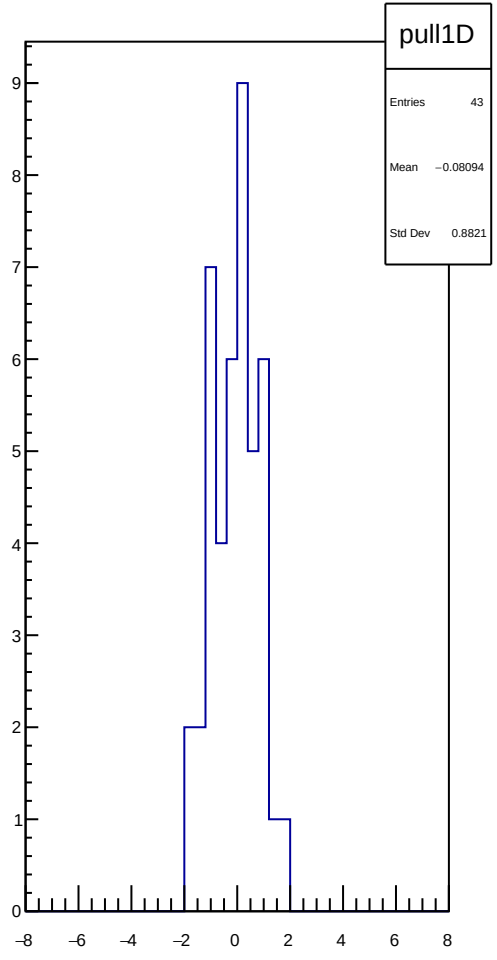


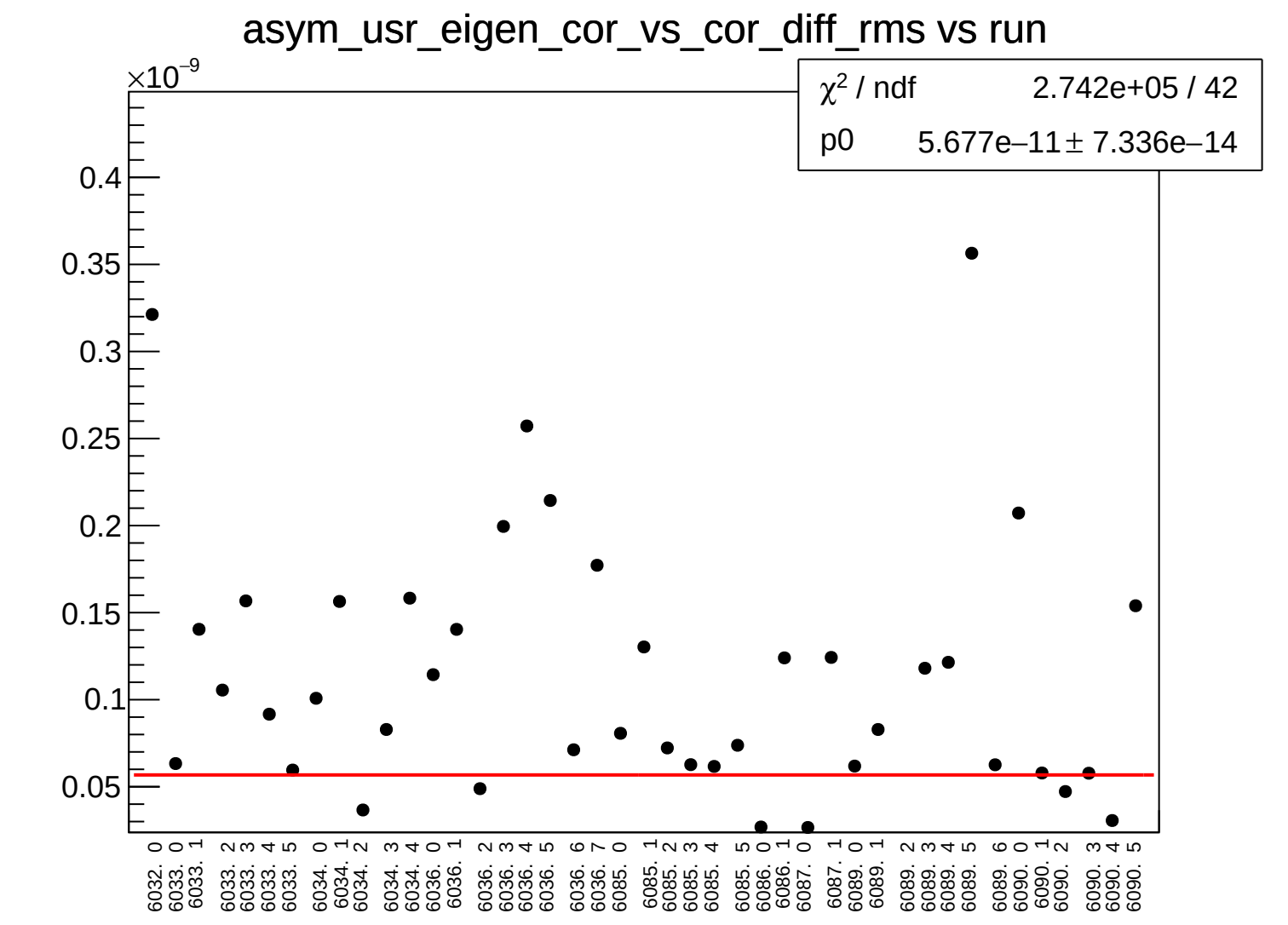


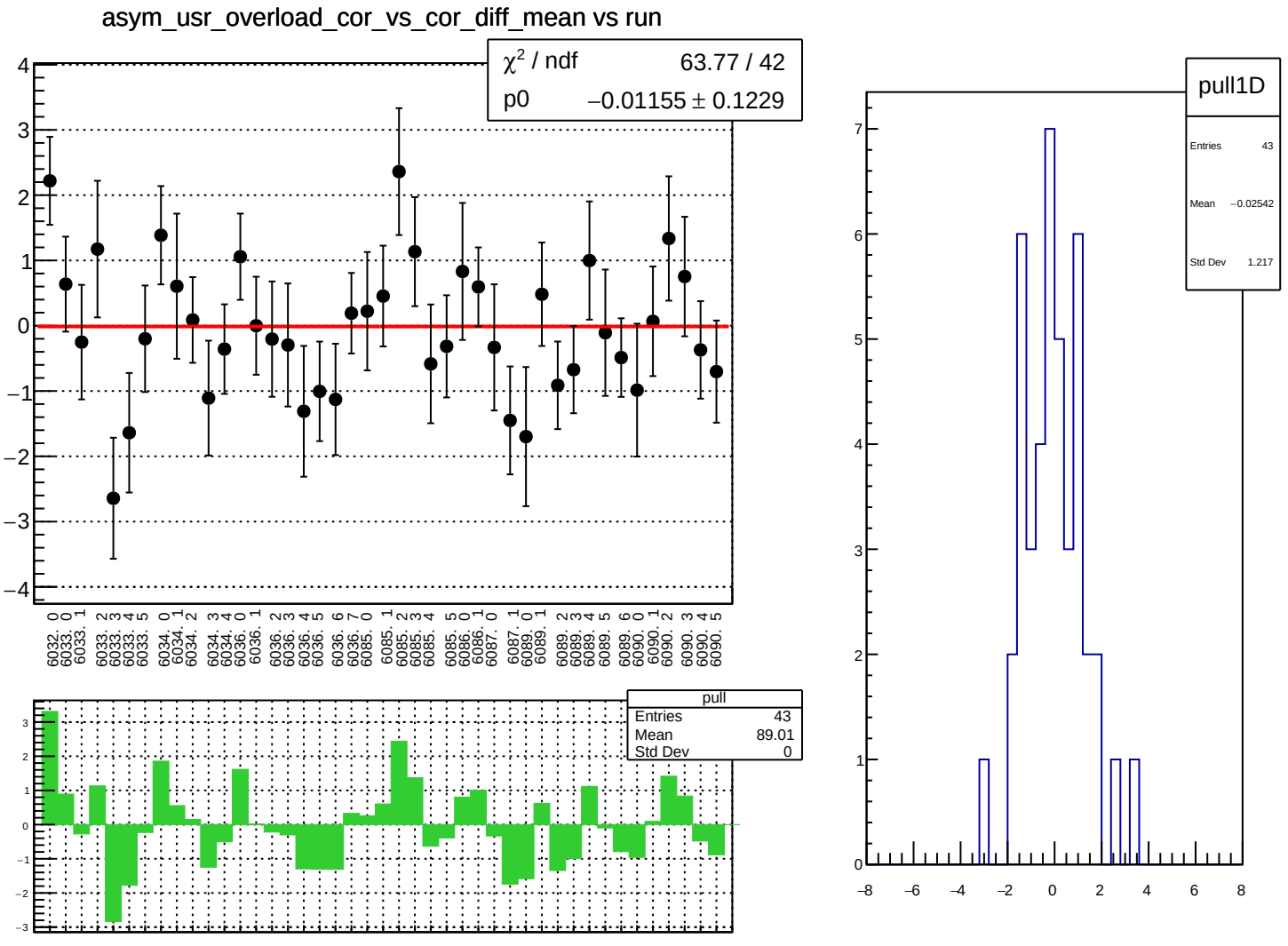


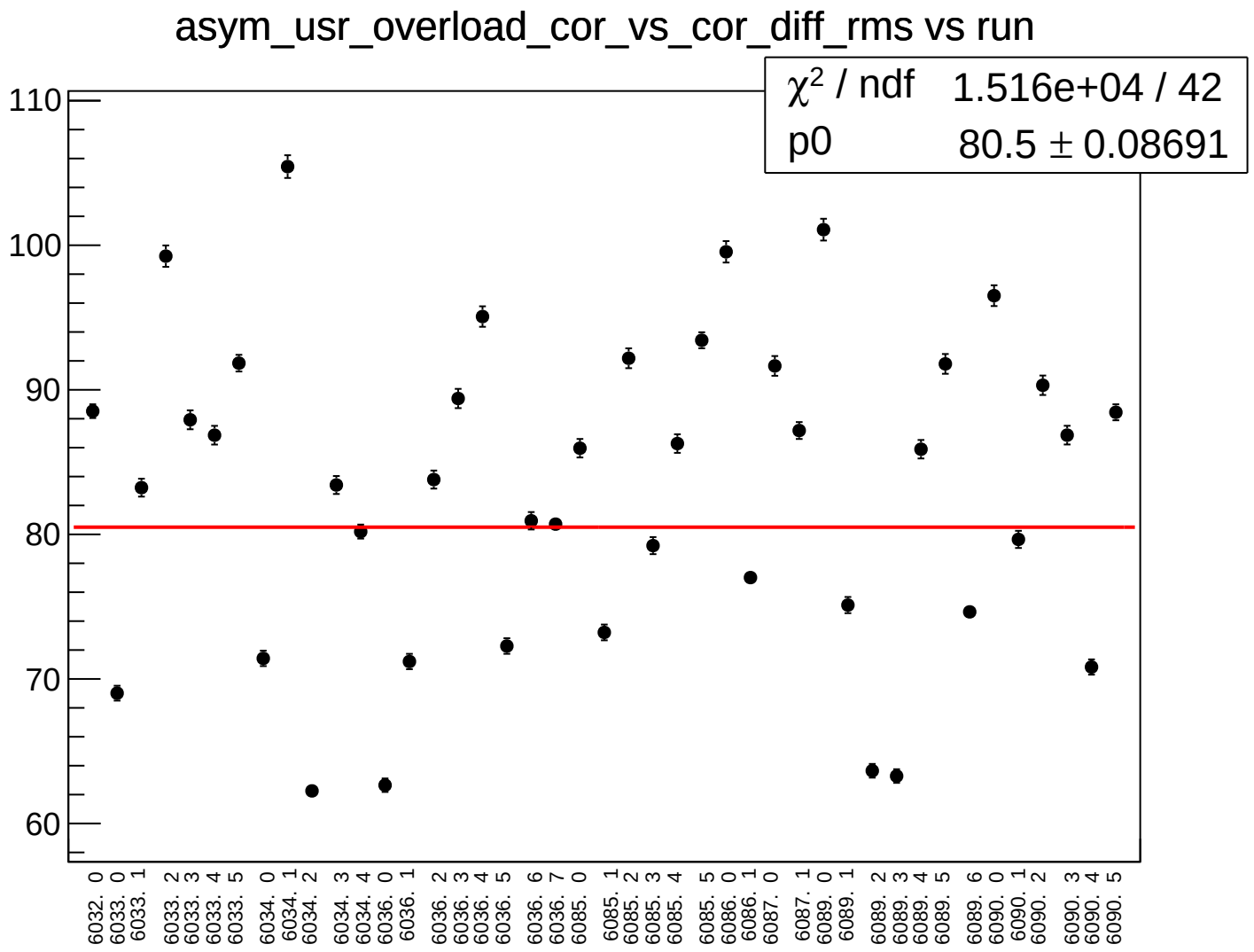

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.458e+04 / 42
p0 113.7 ± 0.1227
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

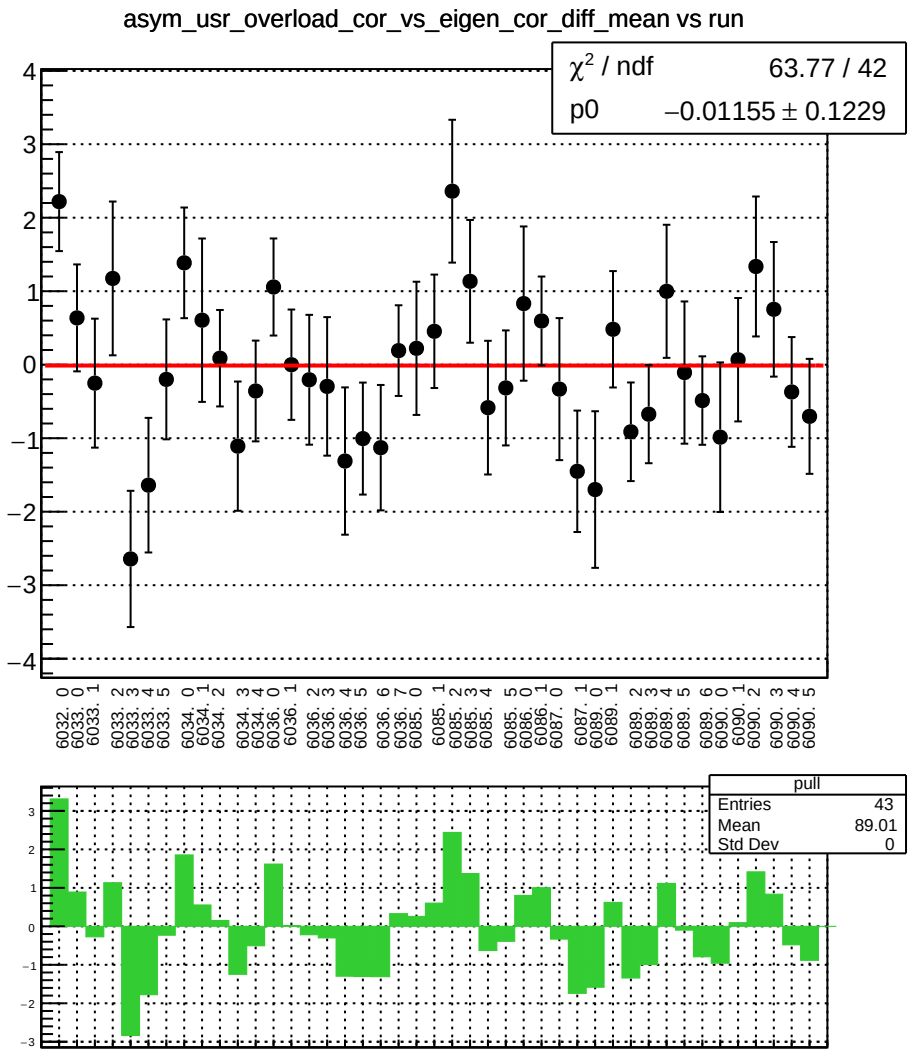

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 33.74 / 42
p0 −1.357e−13 ± 1.037e−13
pull
Entries 43
Mean 47.92
Std Dev 0

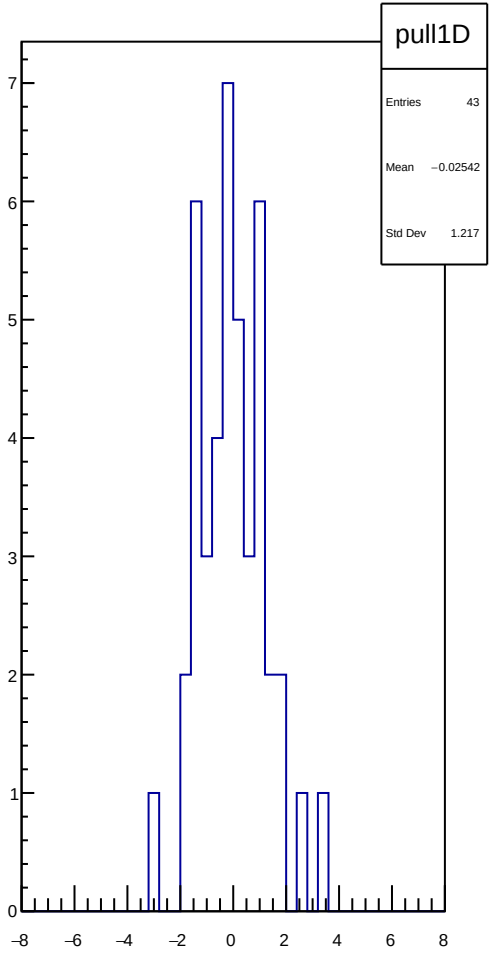

pull1D
Entries 43
Mean −0.08094
Std Dev 0.8821

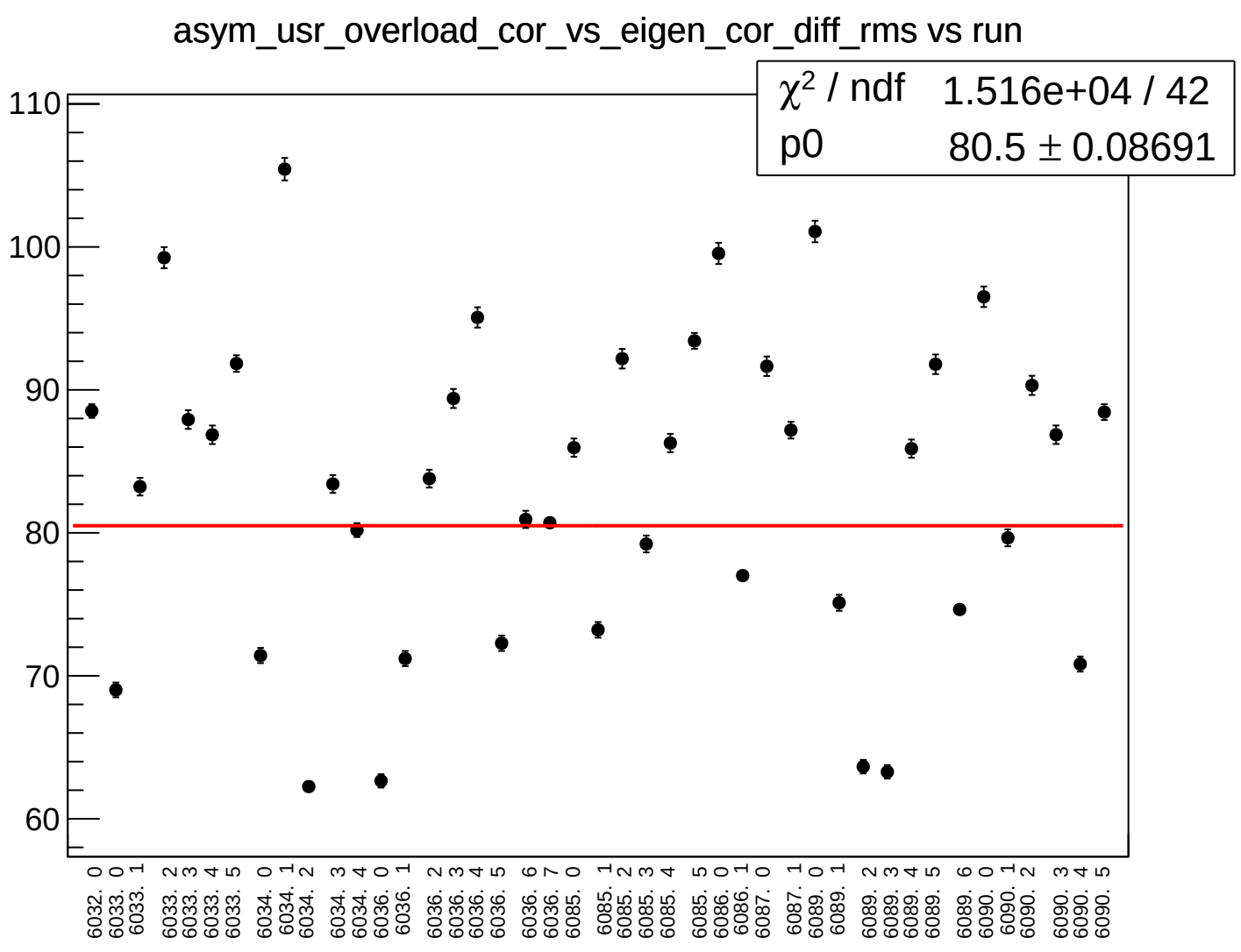

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.742e+05 / 42
p0 5.677e−11 ± 7.336e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

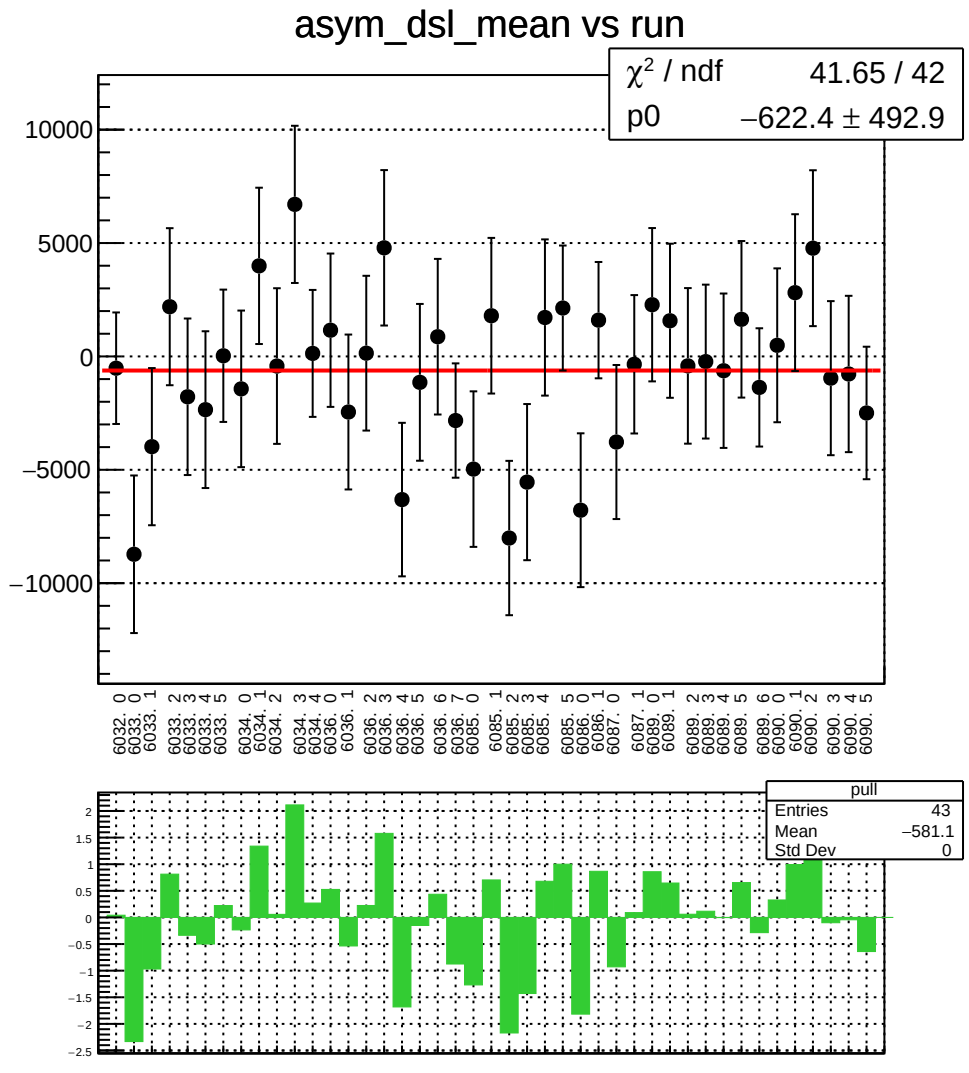

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 63.77 / 42
p0 −0.01155 ± 0.1229
pull
Entries 43
Mean 89.01
Std Dev 0
pull1D
Entries 43
Mean −0.02542
Std Dev 1.217

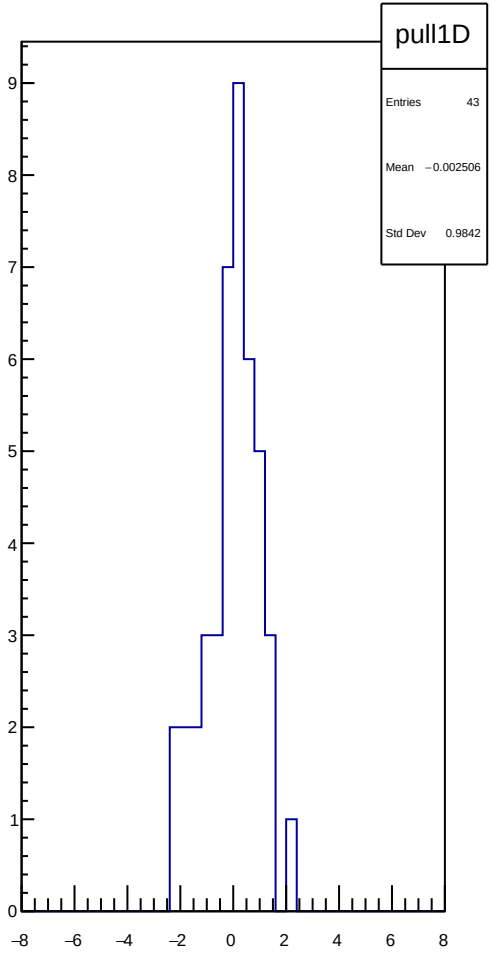

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.516e+04 / 42
p0 80.5 ± 0.08691
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

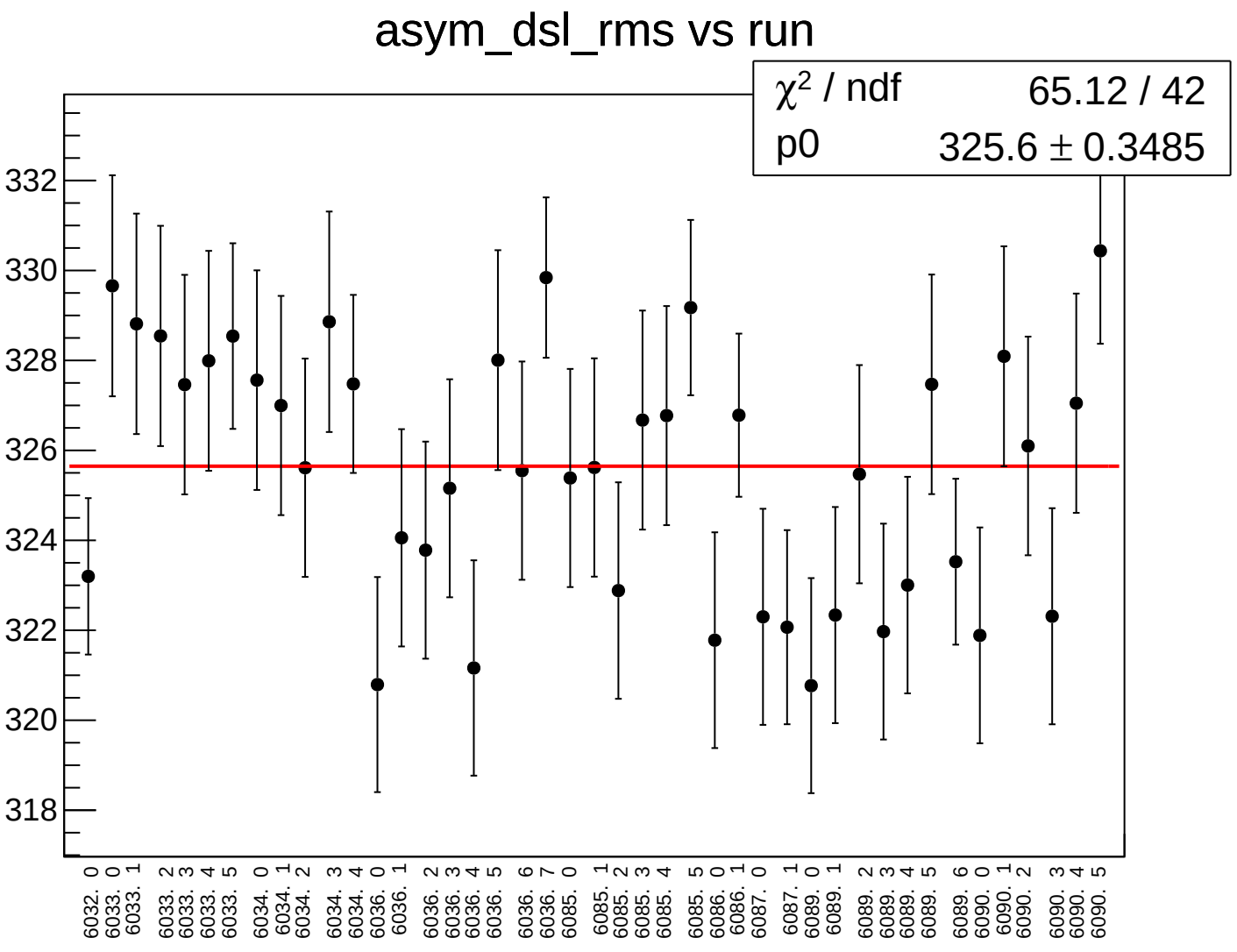

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.77 / 42
p0 −0.01155 ± 0.1229
pull
Entries 43
Mean 89.01
Std Dev 0

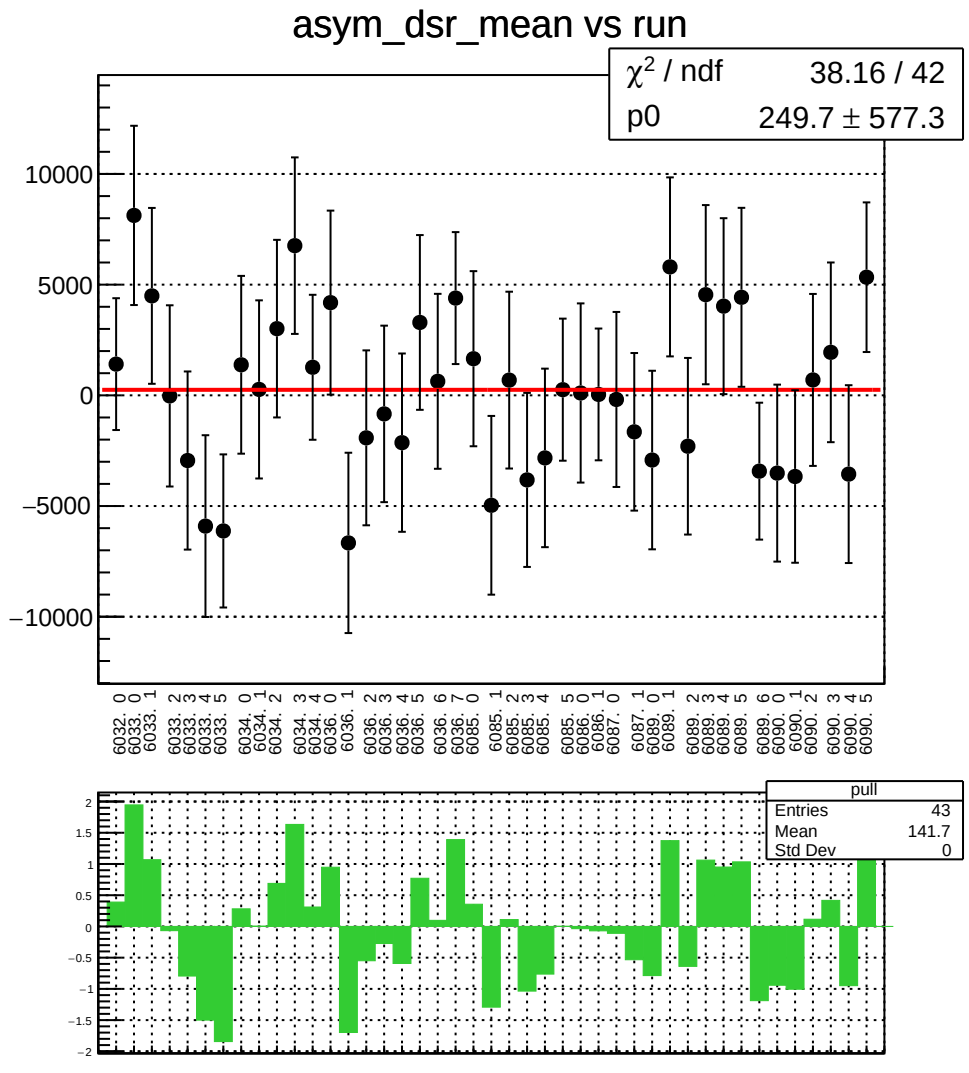

pull1D
Entries 43
Mean −0.02542
Std Dev 1.217

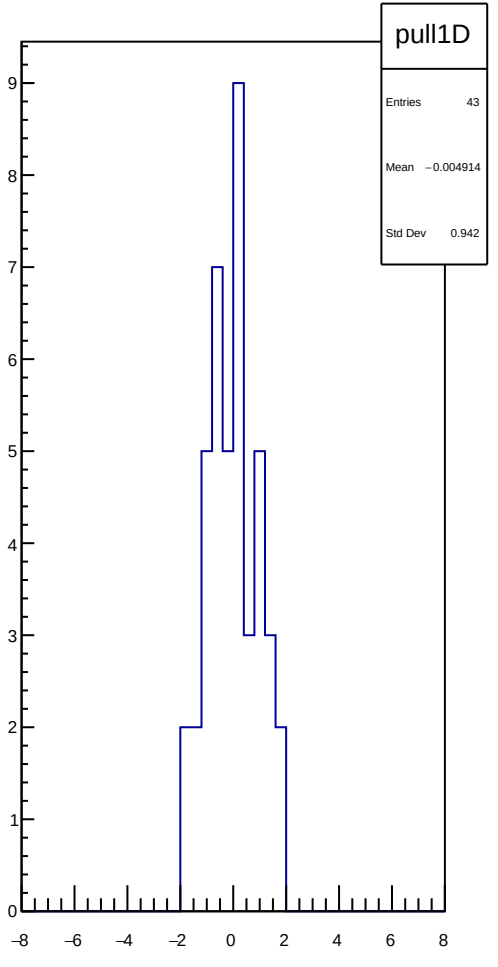

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.516e+04 / 42
p0 80.5 ± 0.08691
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

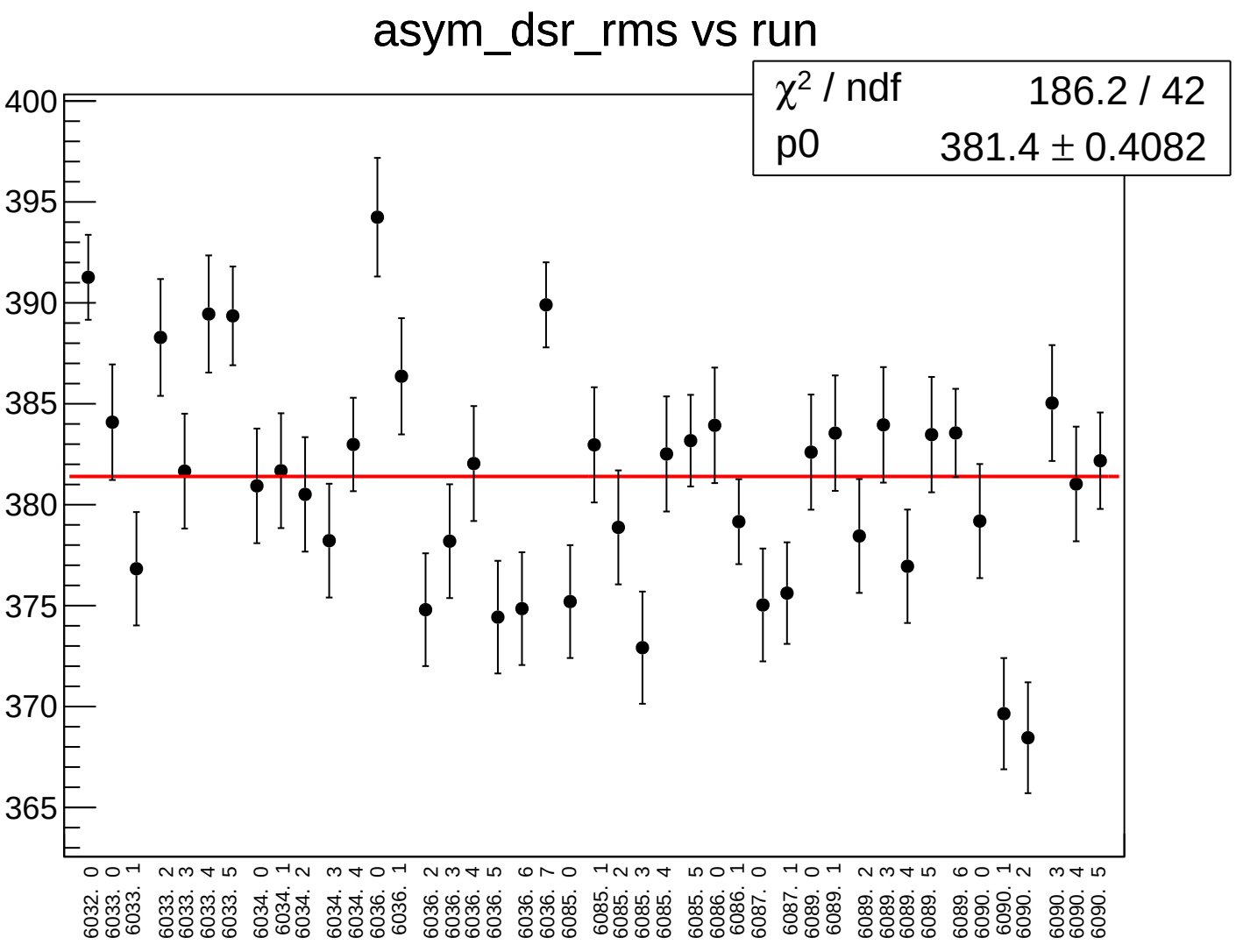

asym_dsl_mean vs run
χ² / ndf 41.65 / 42
p0 −622.4 ± 492.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −581.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

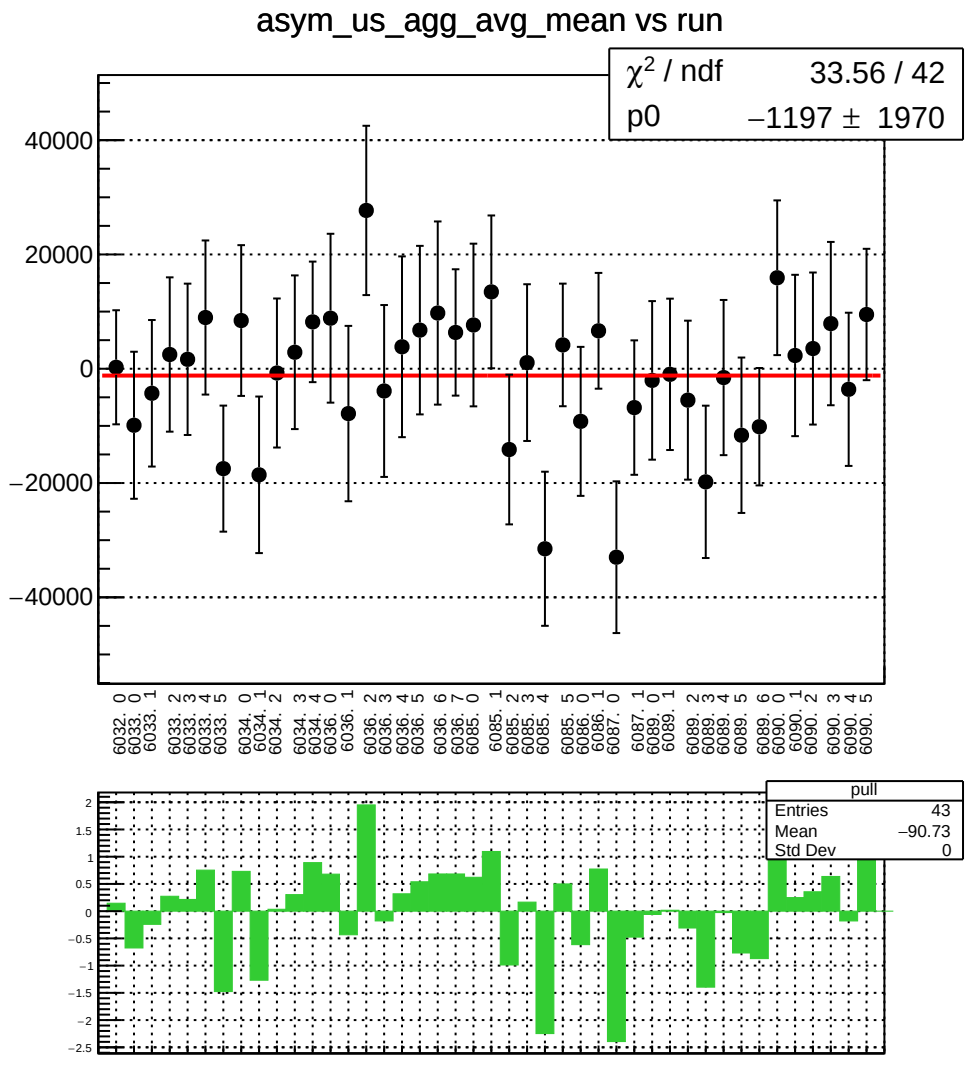

pull1D
Entries 43
Mean −0.002506
Std Dev 0.9842
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

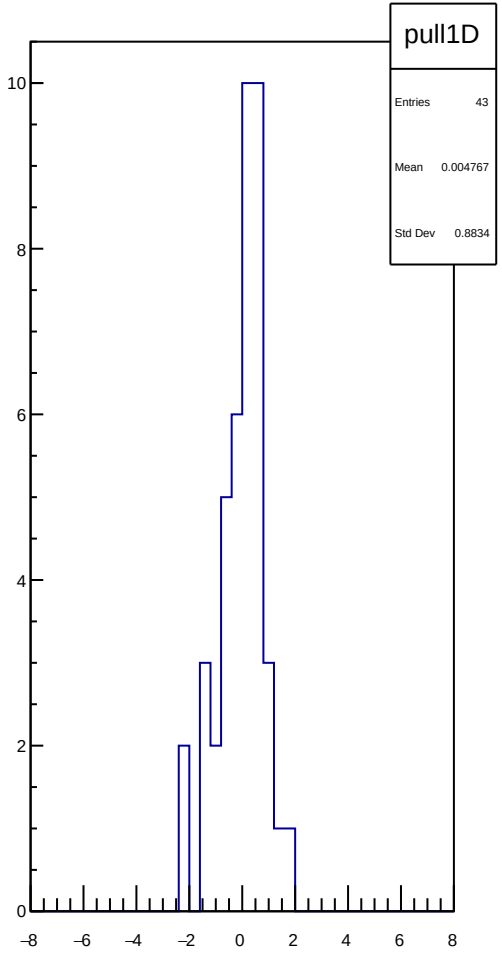

asym_dsl_rms vs run
χ² / ndf 65.12 / 42
p0 325.6 ± 0.3485
332
330
328
326
324
322
320
318
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

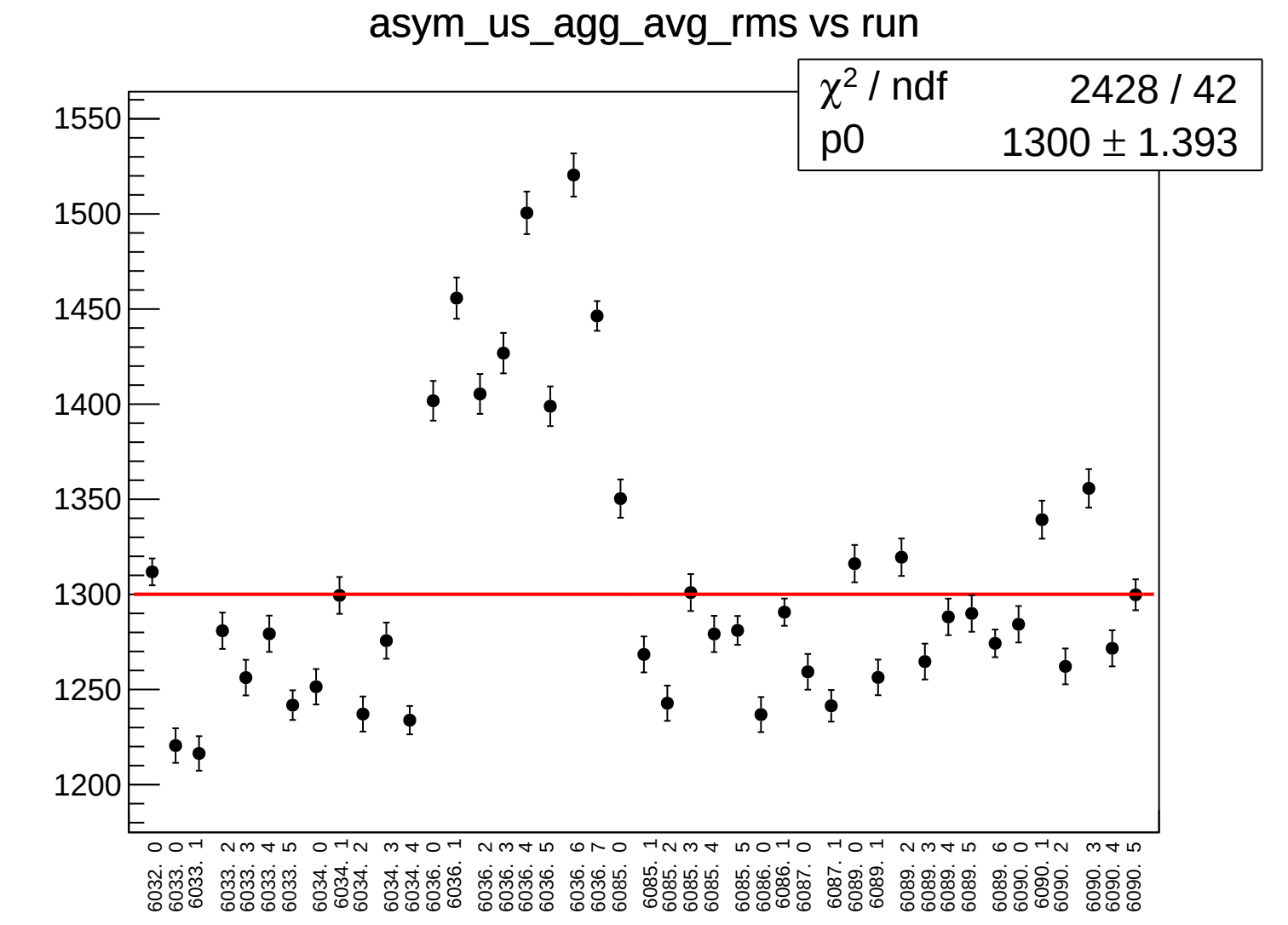

asym_dsr_mean vs run
χ² / ndf 38.16 / 42
p0 249.7 ± 577.3
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 141.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

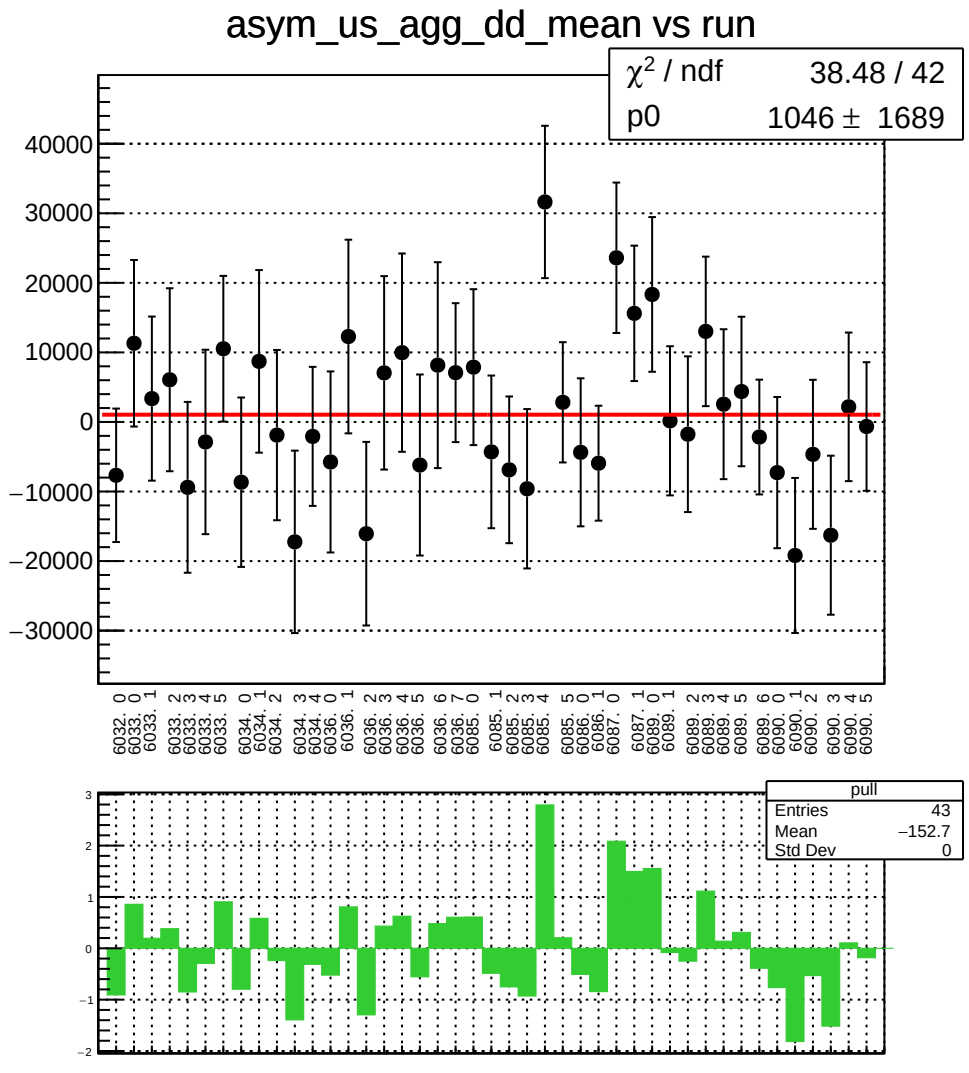

pull1D
Entries 43
Mean −0.004914
Std Dev 0.942
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

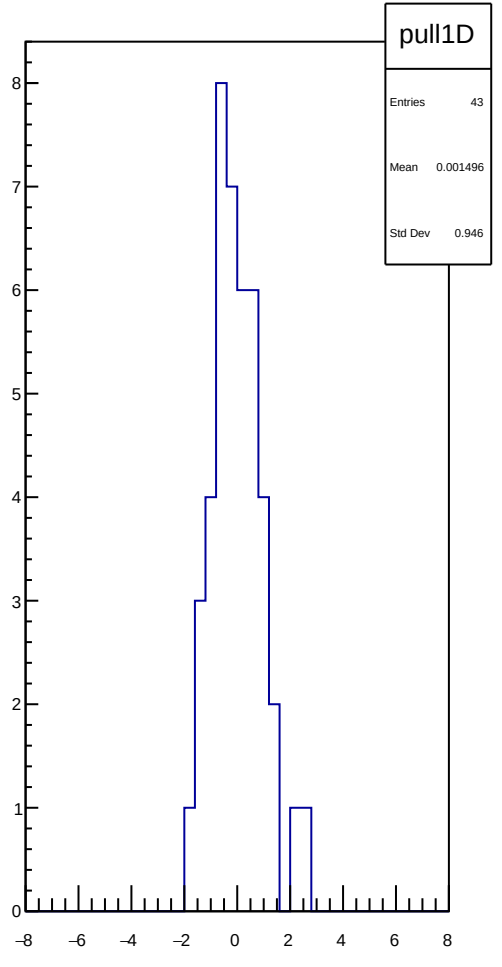

asym_dsr_rms vs run
χ² / ndf 186.2 / 42
p0 381.4 ± 0.4082
400
395
390
385
380
375
370
365
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

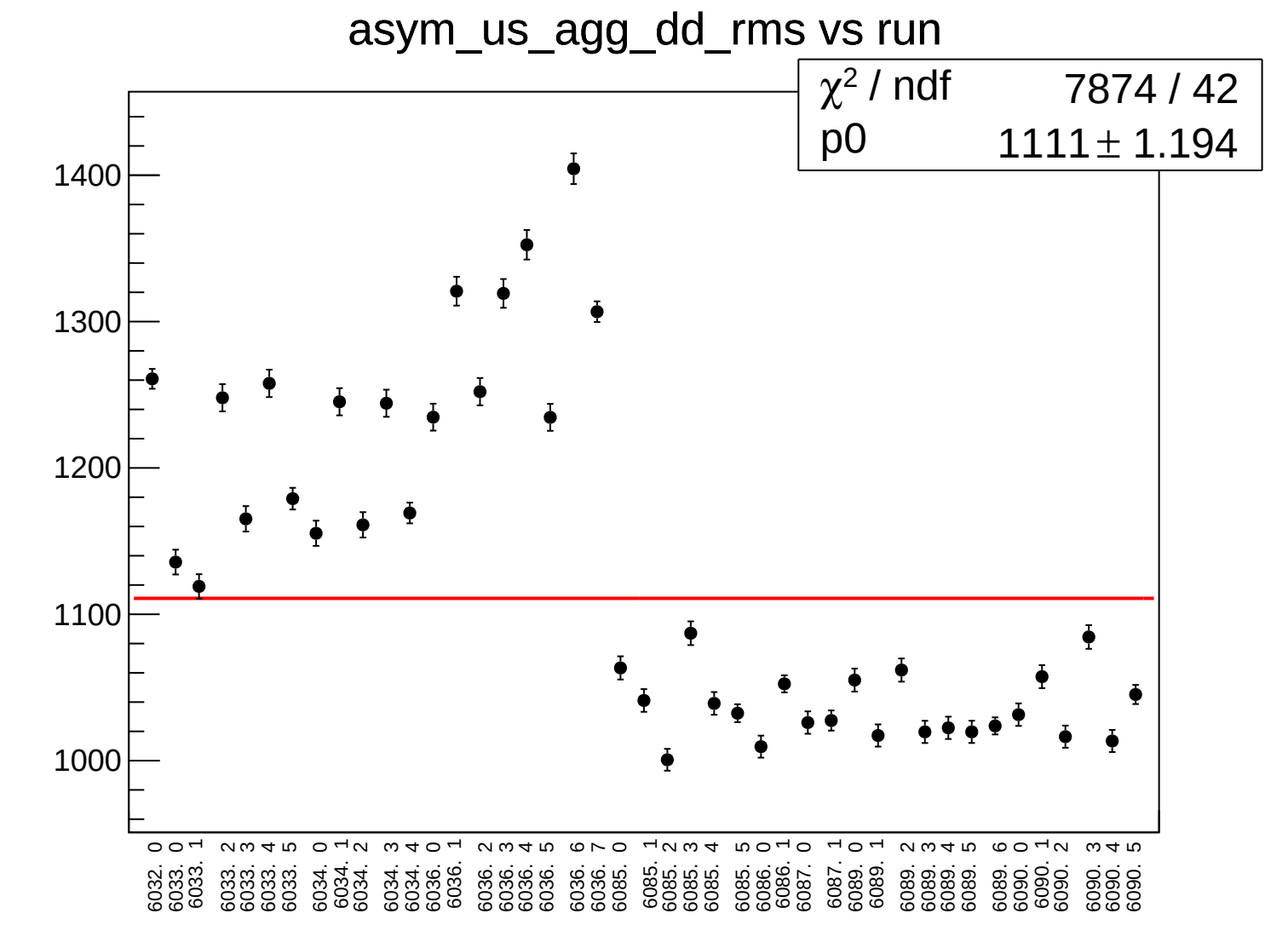

asym_us_agg_avg_mean vs run
χ² / ndf 33.56 / 42
p0 −1197 ± 1970
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −90.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

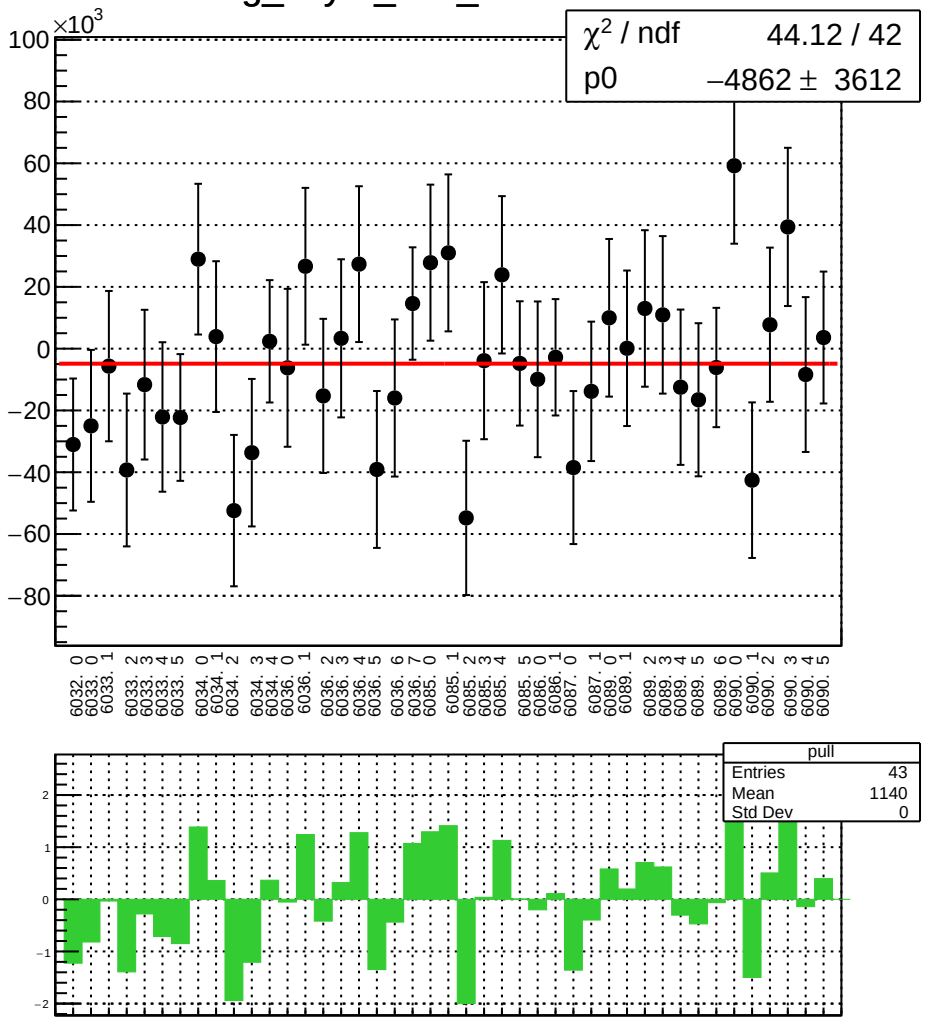

pull1D
Entries 43
Mean 0.004767
Std Dev 0.8834
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

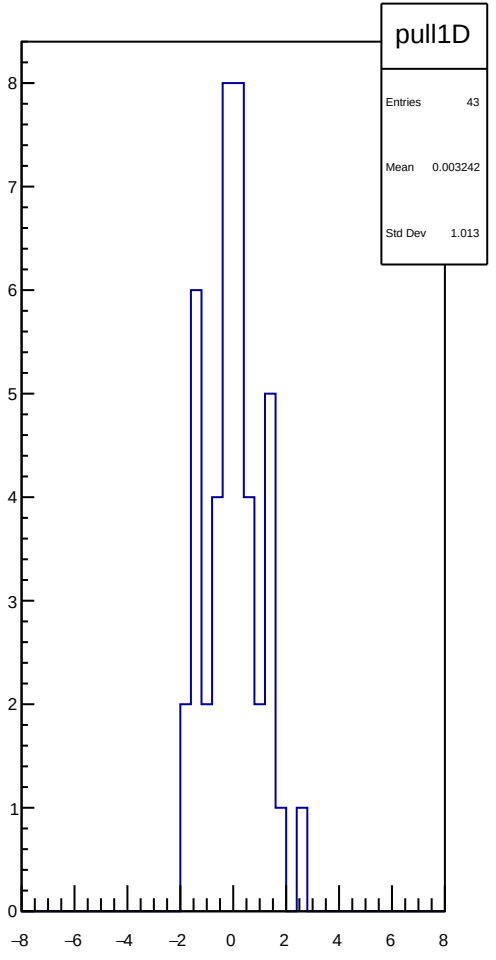

asym_us_agg_avg_rms vs run
χ² / ndf 2428 / 42
p0 1300 ± 1.393
1550
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

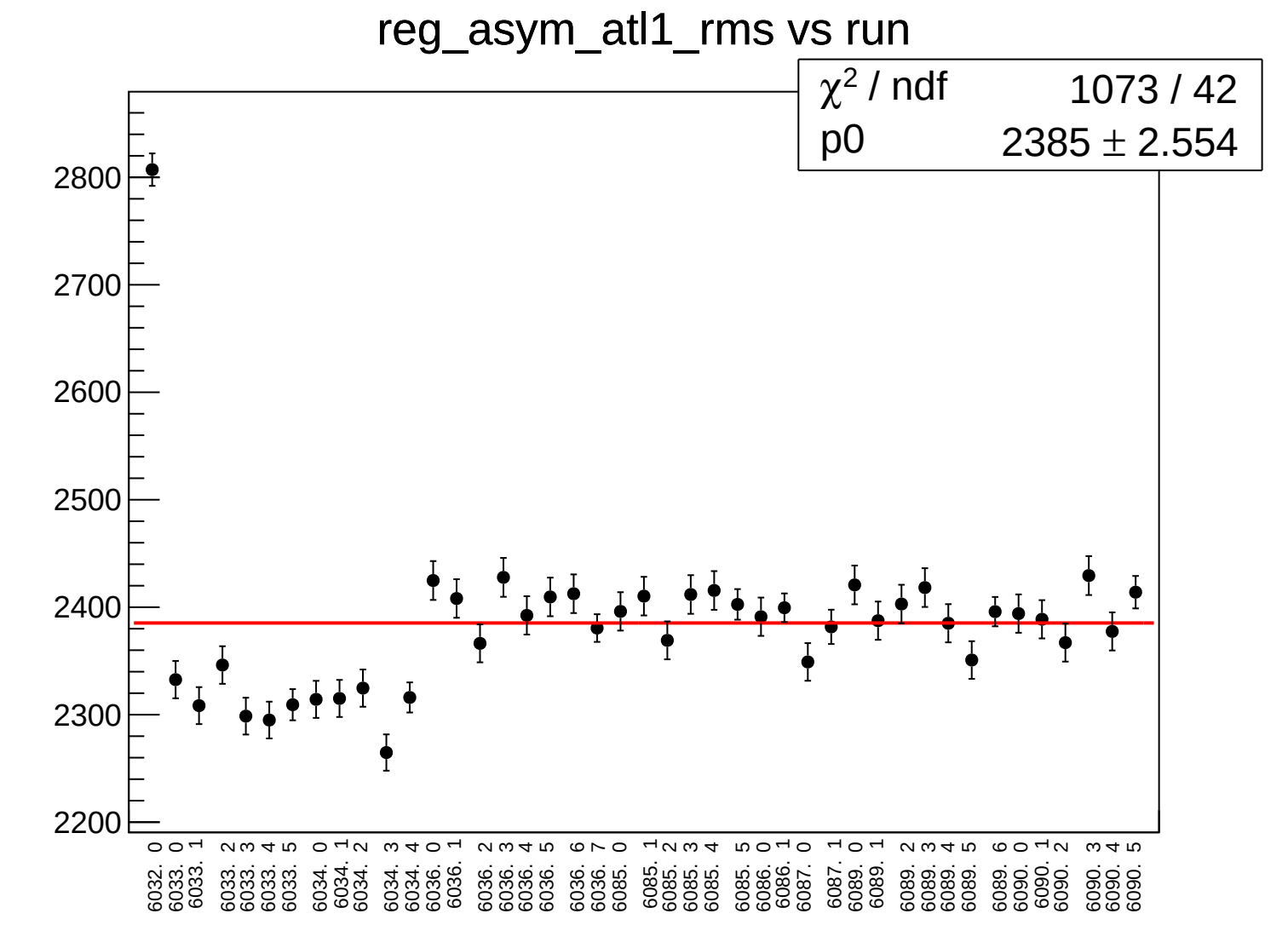

asym_us_agg_dd_mean vs run
χ² / ndf 38.48 / 42
p0 1046 ± 1689
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −152.7
Std Dev 0
3
2
1
0
−1
−2

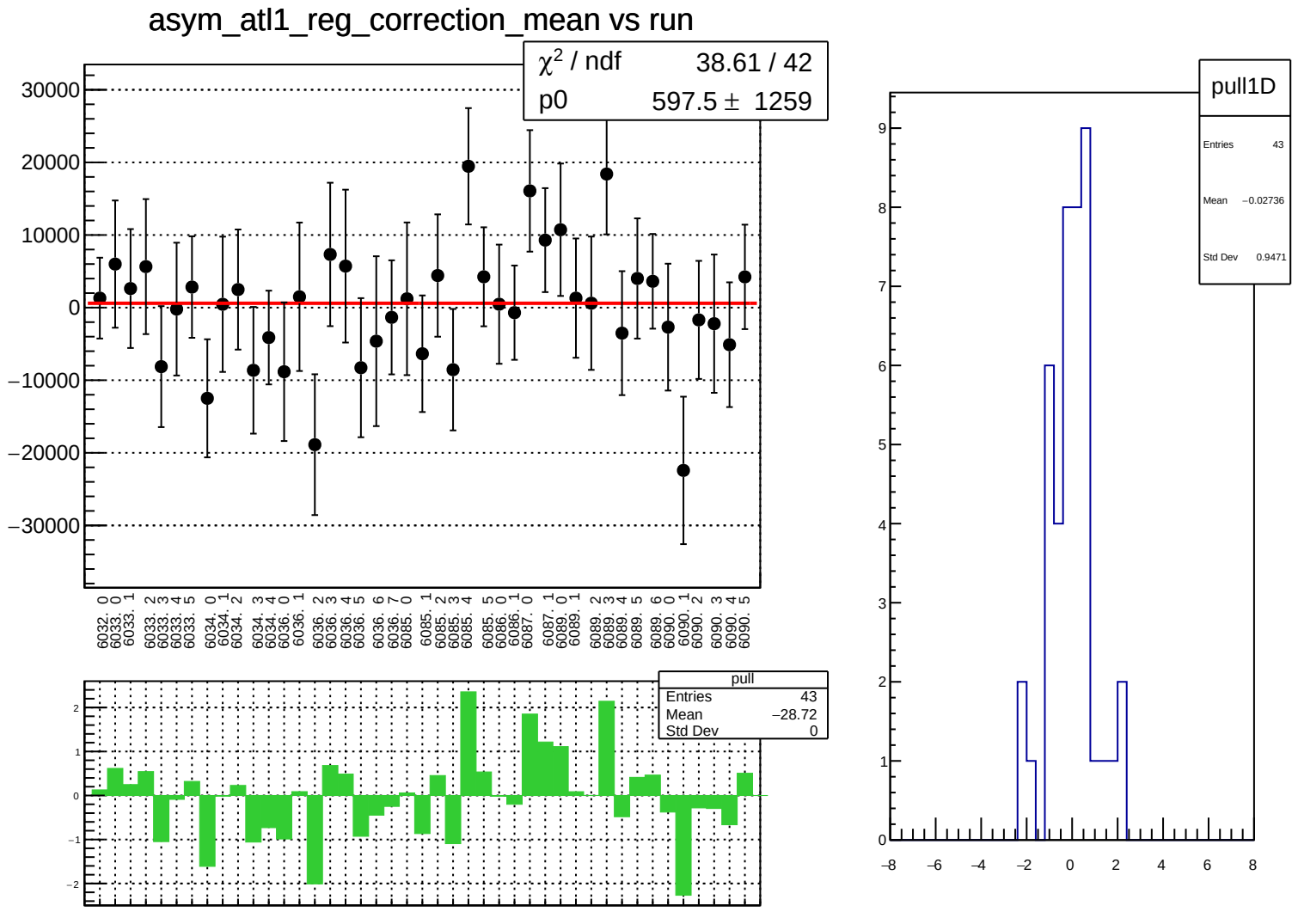

pull1D
Entries 43
Mean 0.001496
Std Dev 0.946
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

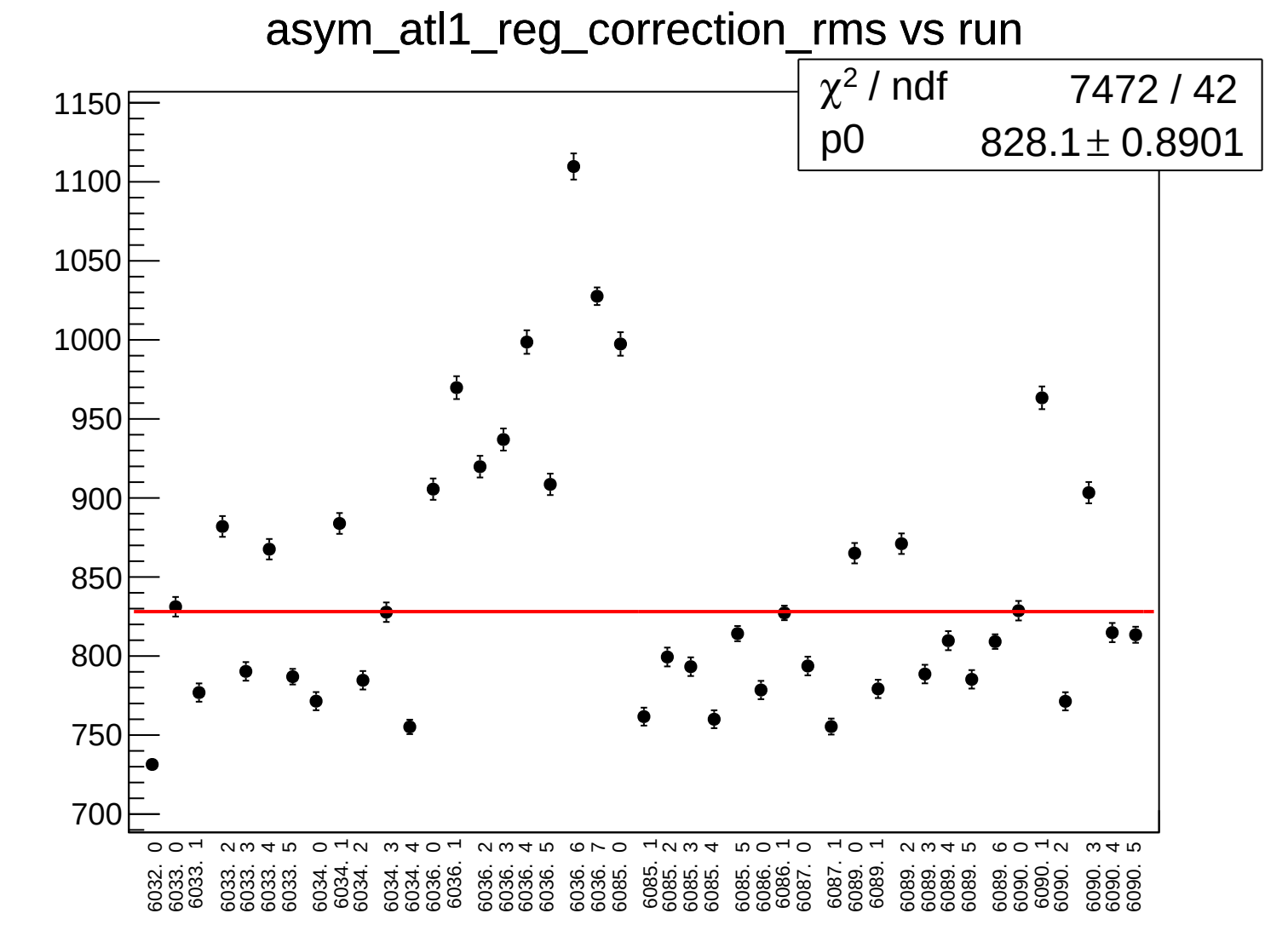

asym_us_agg_dd_rms vs run
χ² / ndf 7874 / 42
p0 1111 ± 1.194
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

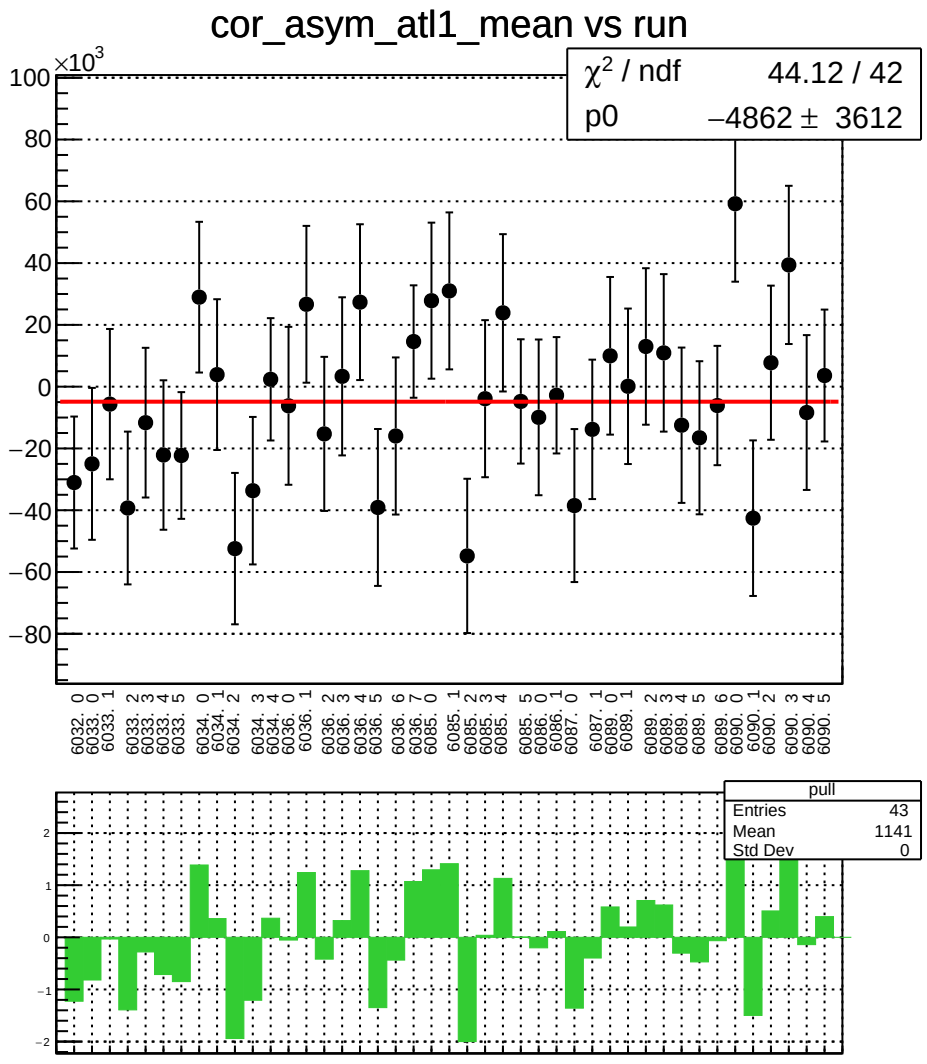

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 44.12 / 42
p0 −4862 ± 3612
pull
Entries 43
Mean 1140
Std Dev 0

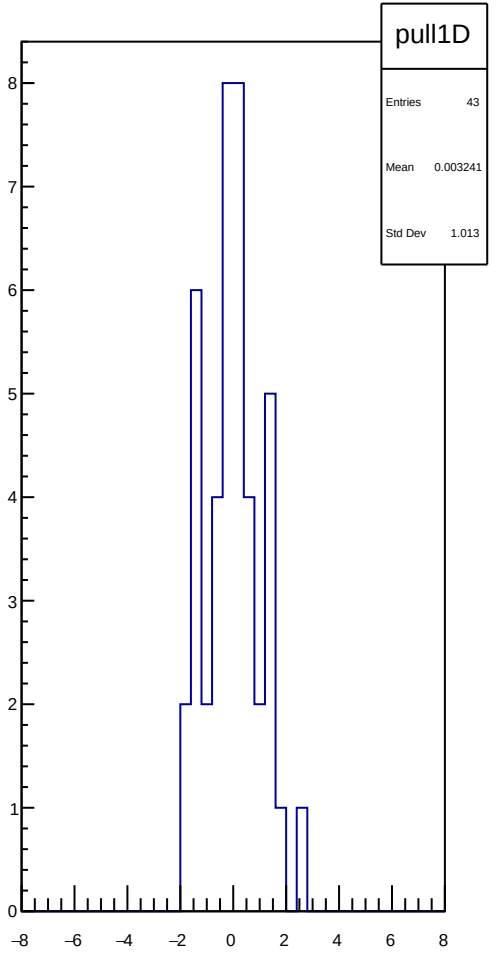

pull1D
Entries 43
Mean 0.003242
Std Dev 1.013

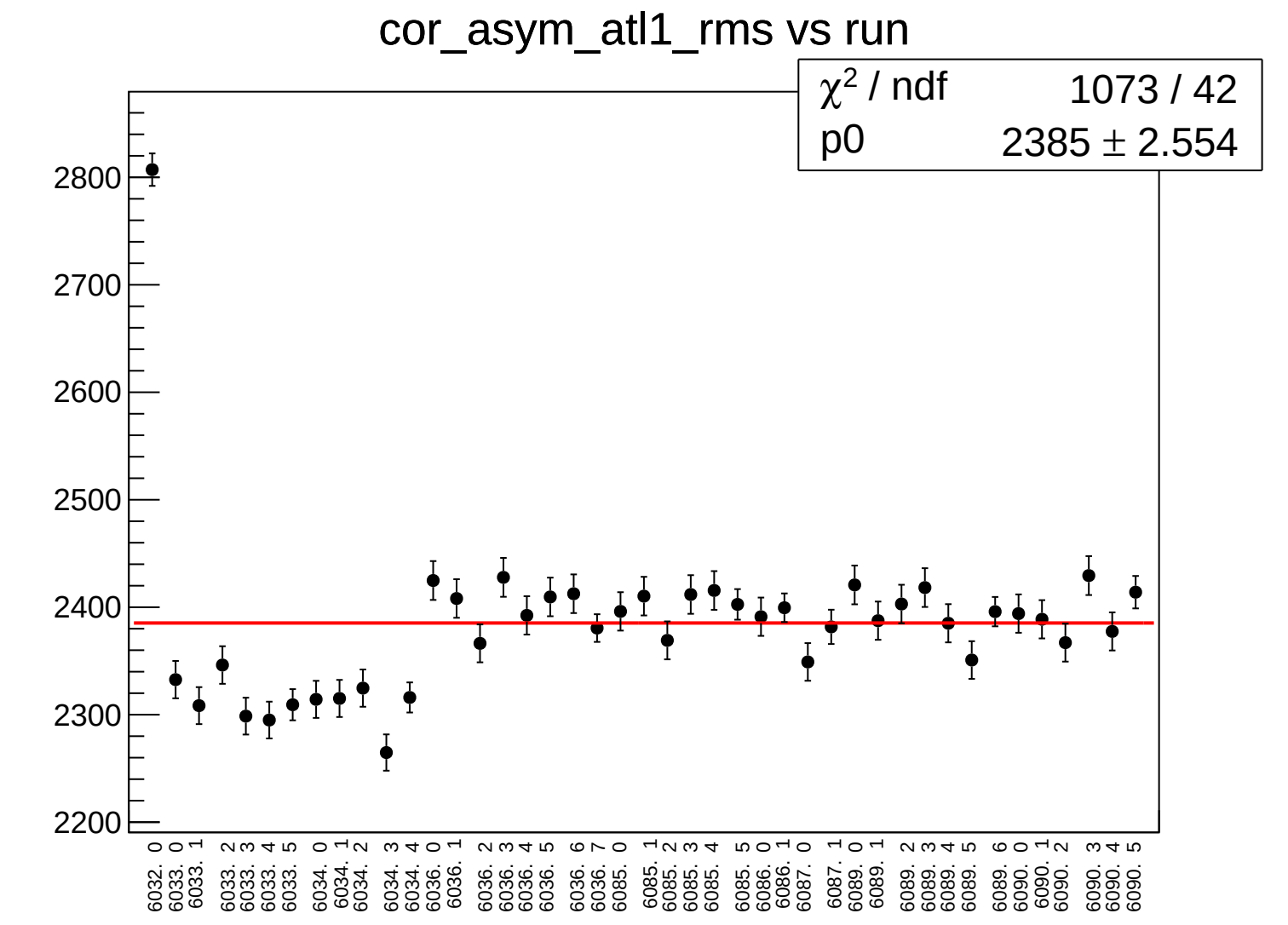

reg_asym_atl1_rms vs run
χ² / ndf 1073 / 42
p0 2385 ± 2.554
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

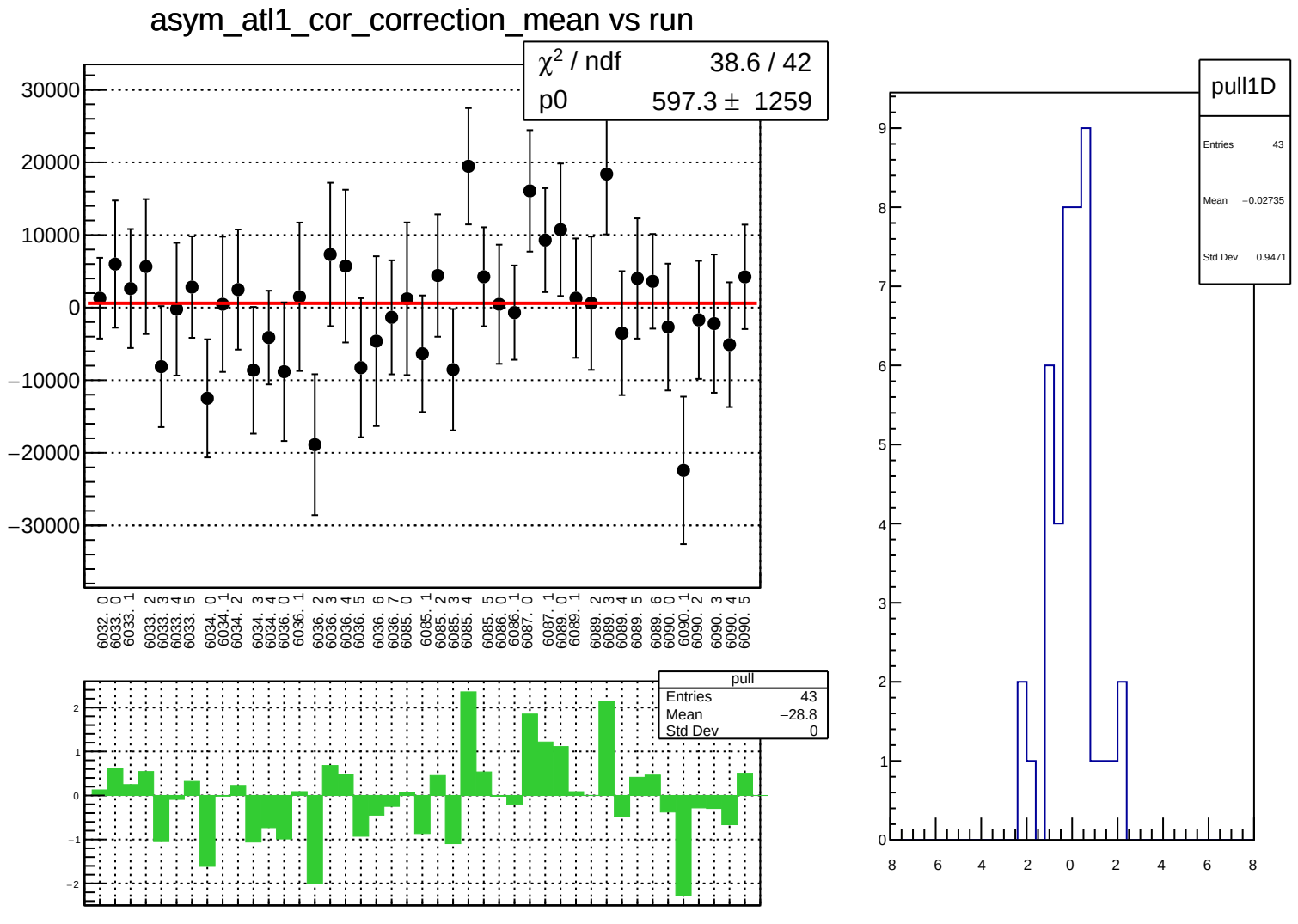

asym_atl1_reg_correction_mean vs run
χ² / ndf 38.61 / 42
p0 597.5 ± 1259
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02736
Std Dev 0.9471
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

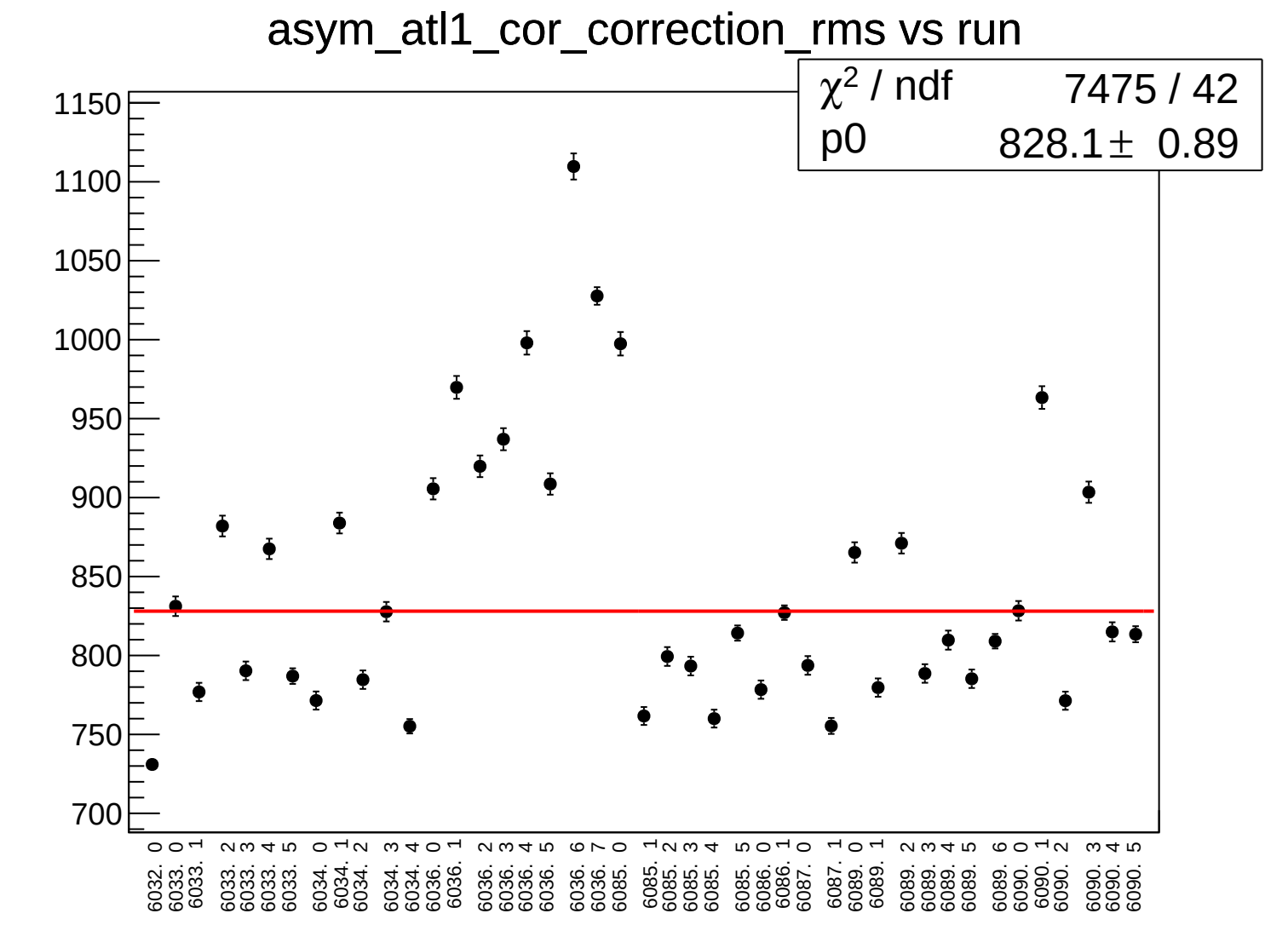

asym_atl1_reg_correction_rms vs run
χ² / ndf 7472 / 42
p0 828.1 ± 0.8901
1150
1100
1050
1000
950
900
850
800
750
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 44.12 / 42
p0 −4862 ± 3612
pull
Entries 43
Mean 1141
Std Dev 0


pull1D
Entries 43
Mean 0.003241
Std Dev 1.013


cor_asym_atl1_rms vs run
χ² / ndf 1073 / 42
p0 2385 ± 2.554
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1_cor_correction_mean vs run
χ² / ndf 38.6 / 42
p0 597.3 ± 1259
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02735
Std Dev 0.9471
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_cor_correction_rms vs run
χ² / ndf 7475 / 42
p0 828.1 ± 0.89
1150
1100
1050
1000
950
900
850
800
750
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
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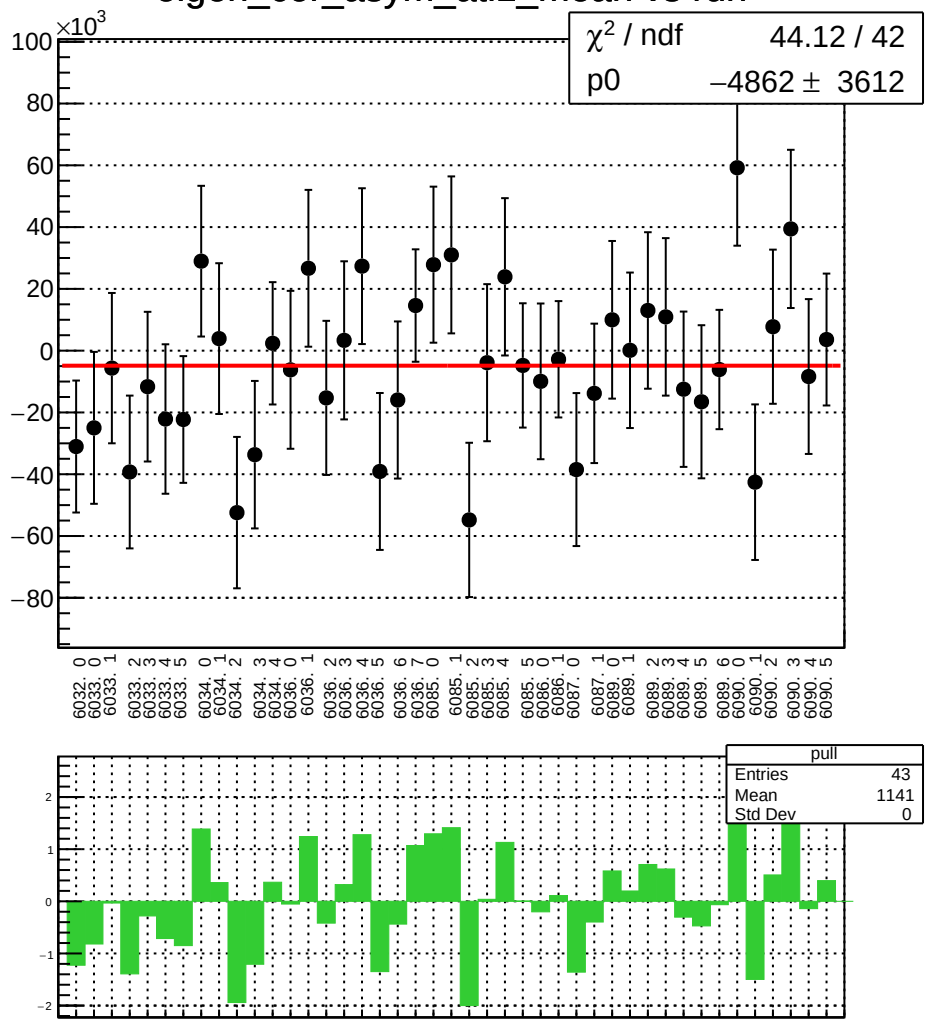
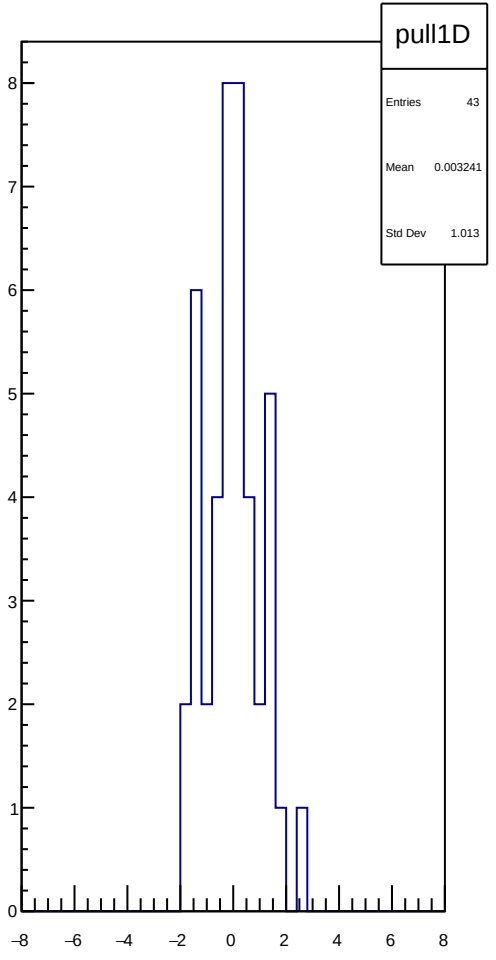
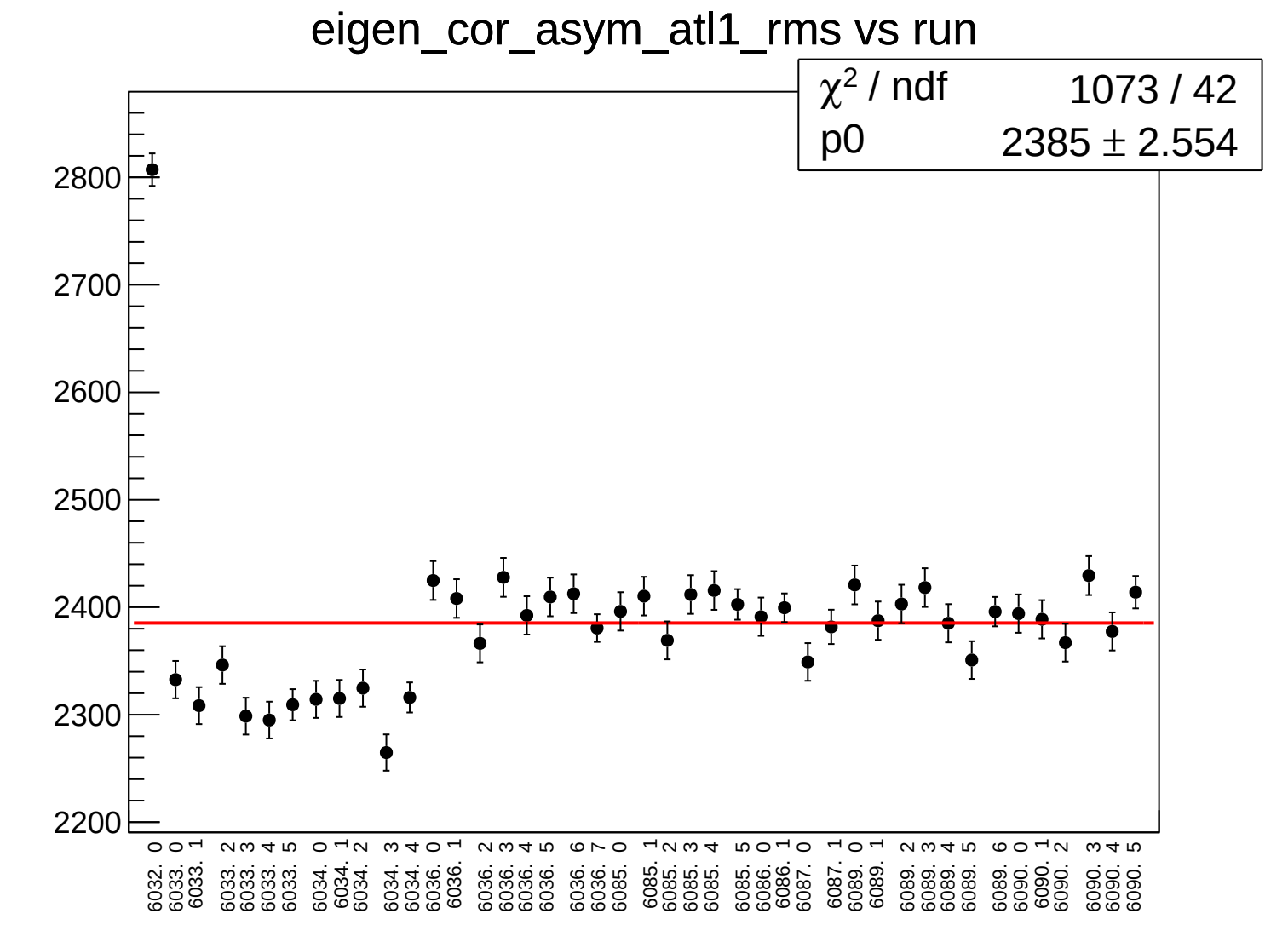
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_atl1_mean vs run
χ² / ndf 44.12 / 42
p0 −4862 ± 3612
pull
Entries 43
Mean 1141
Std Dev 0


pull1D
Entries 43
Mean 0.003241
Std Dev 1.013


eigen_cor_asym_atl1_rms vs run
χ² / ndf 1073 / 42
p0 2385 ± 2.554
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
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6090. 2
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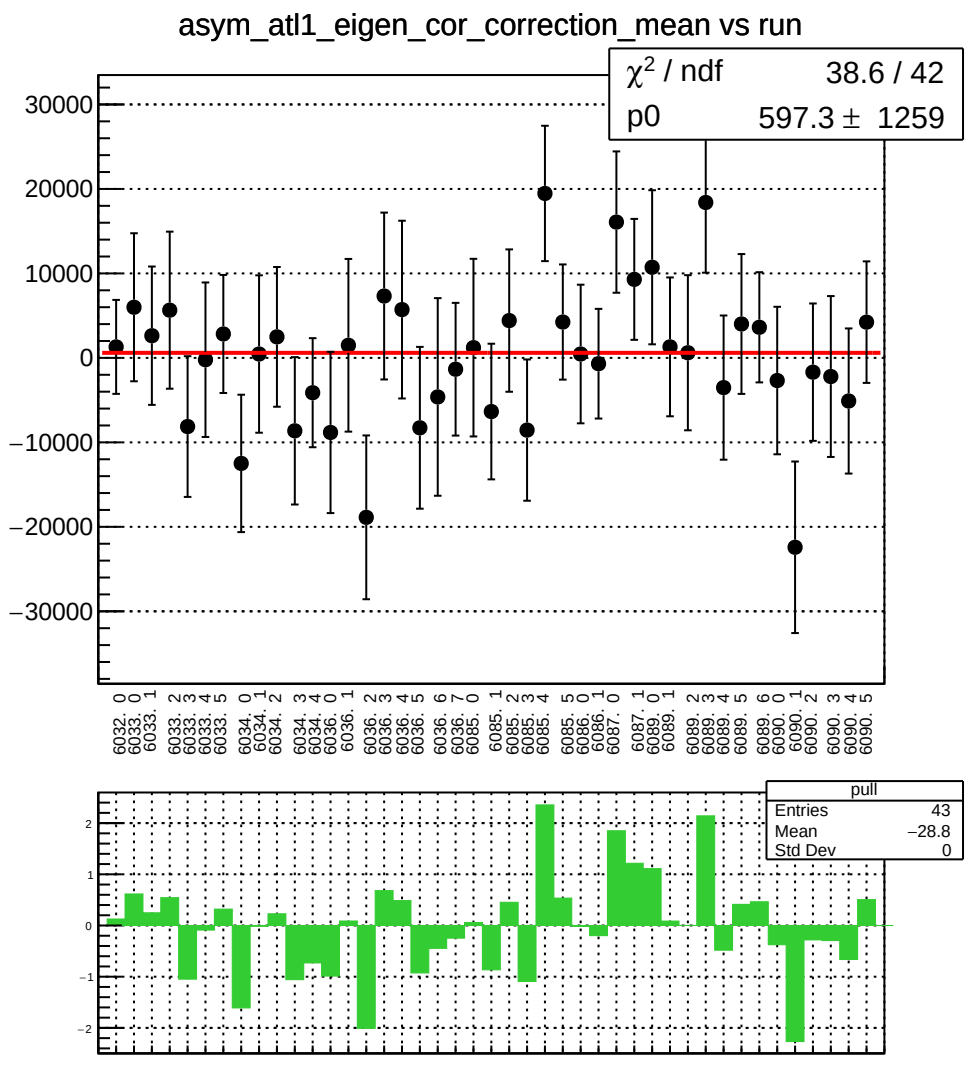
6090. 4
6090. 5


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 38.6 / 42
p0 597.3 ± 1259
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02735
Std Dev 0.9471
9
8
7
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−4
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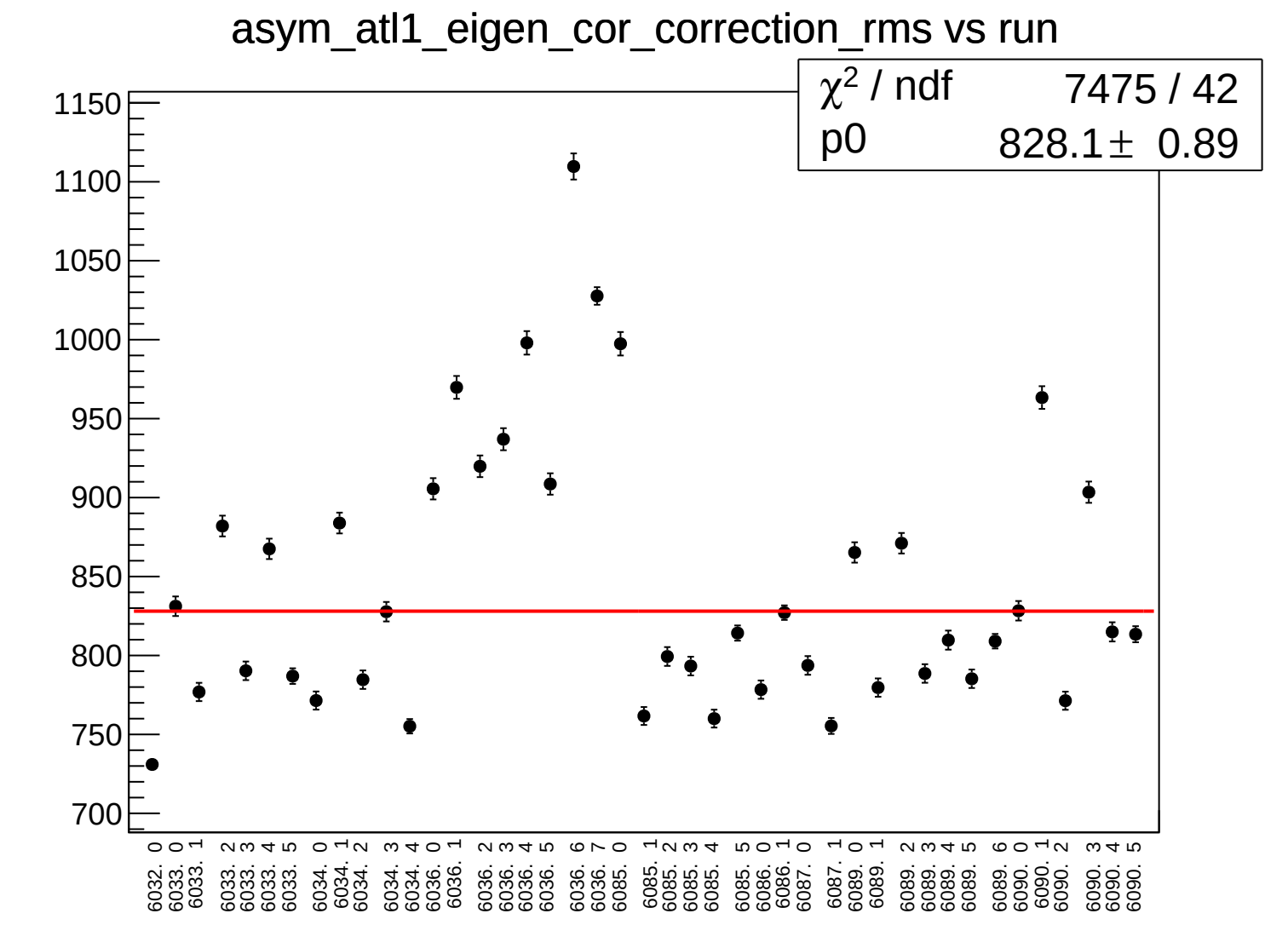
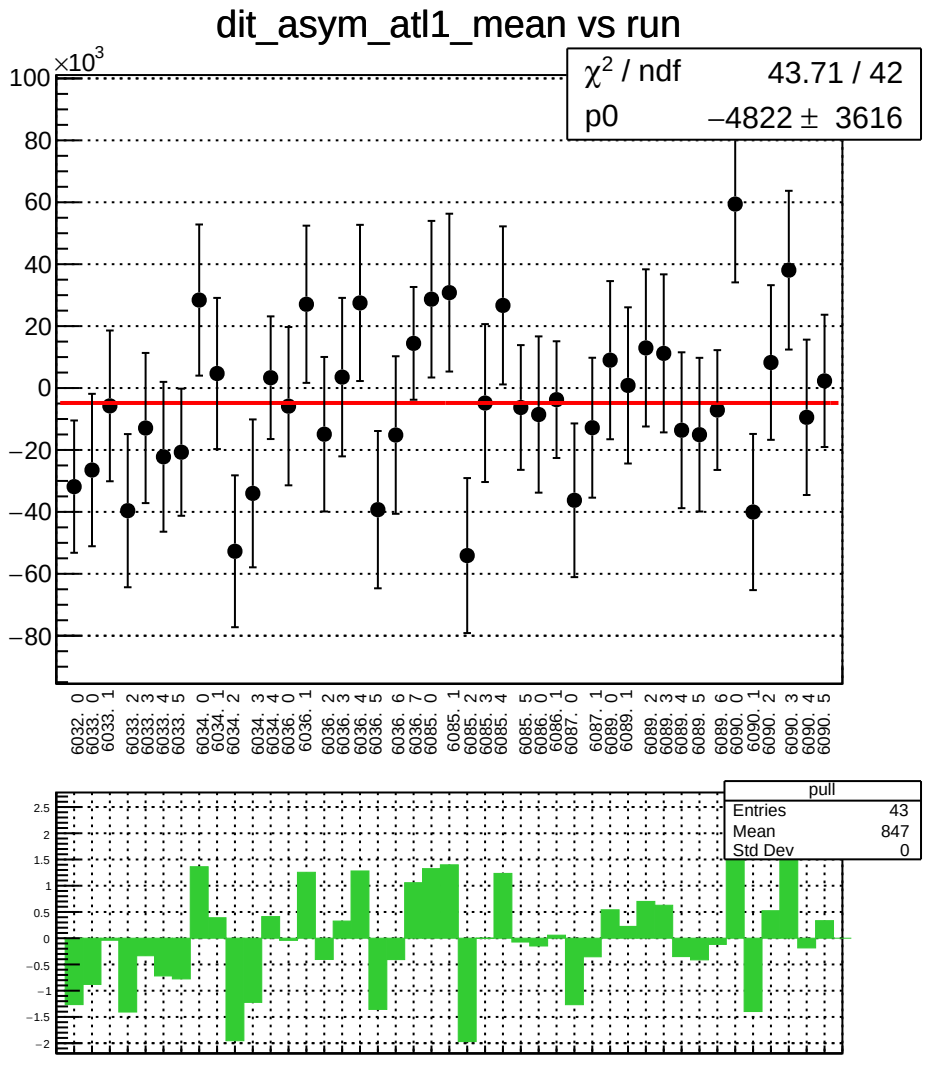
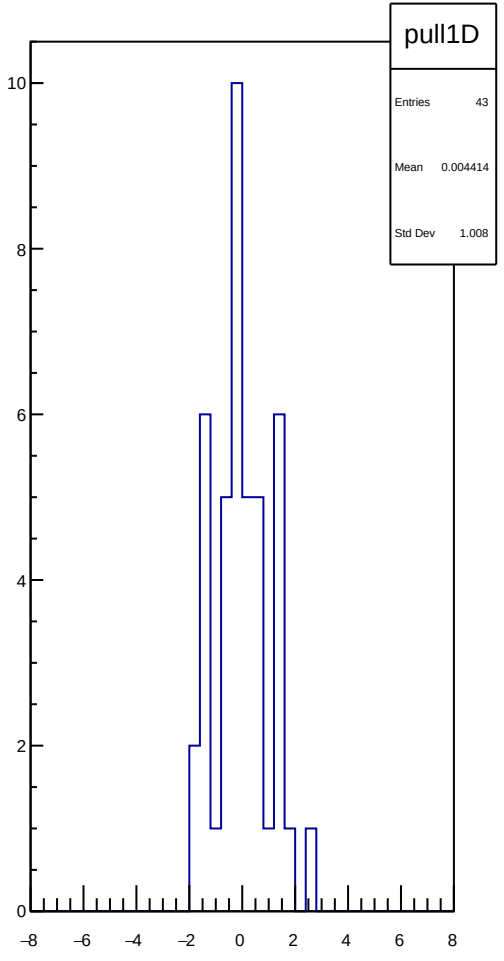
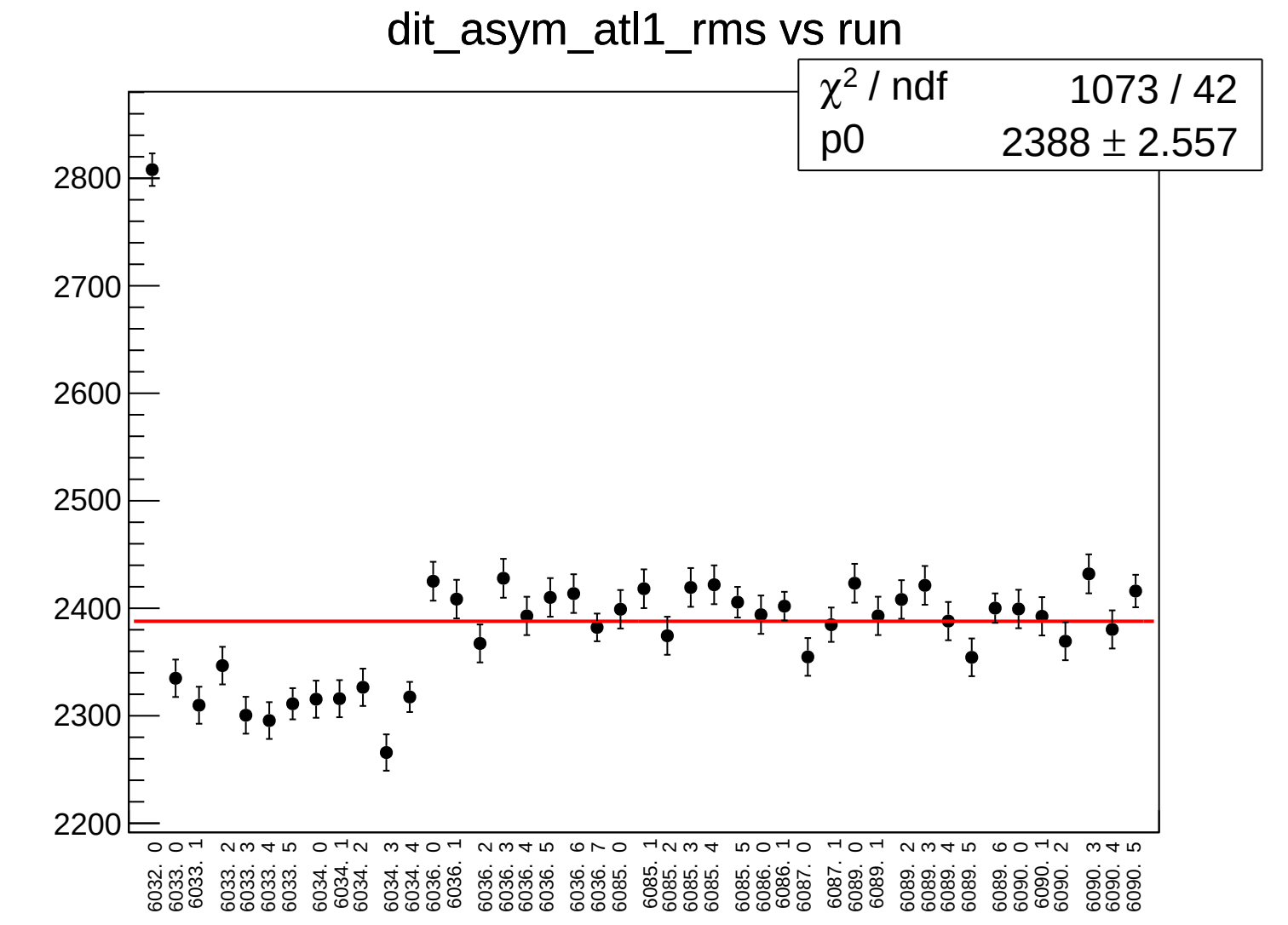

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7475 / 42
p0 828.1 ± 0.89
1150
1100
1050
1000
950
900
850
800
750
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 43.71 / 42
p0 −4822 ± 3616
pull
Entries 43
Mean 847
Std Dev 0


pull1D
Entries 43
Mean 0.004414
Std Dev 1.008


dit_asym_atl1_rms vs run
χ² / ndf 1073 / 42
p0 2388 ± 2.557
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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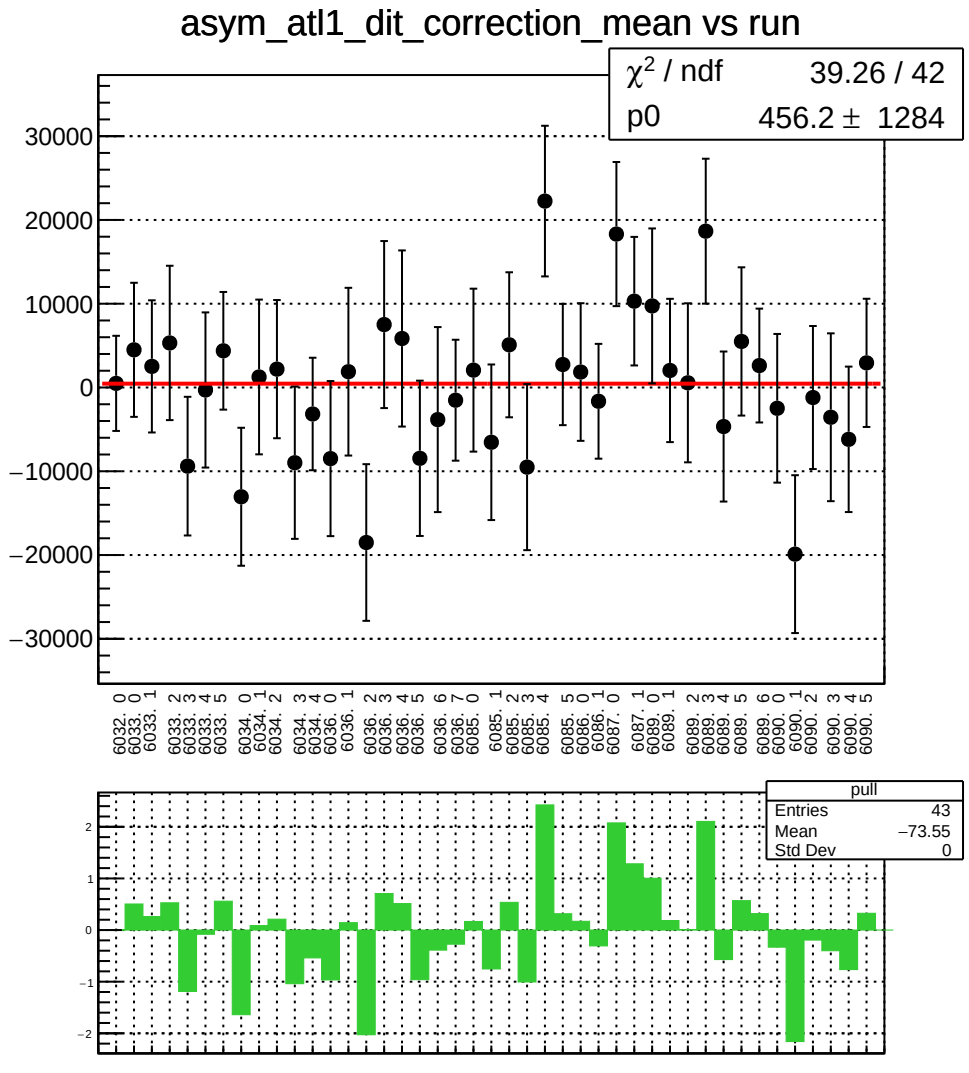
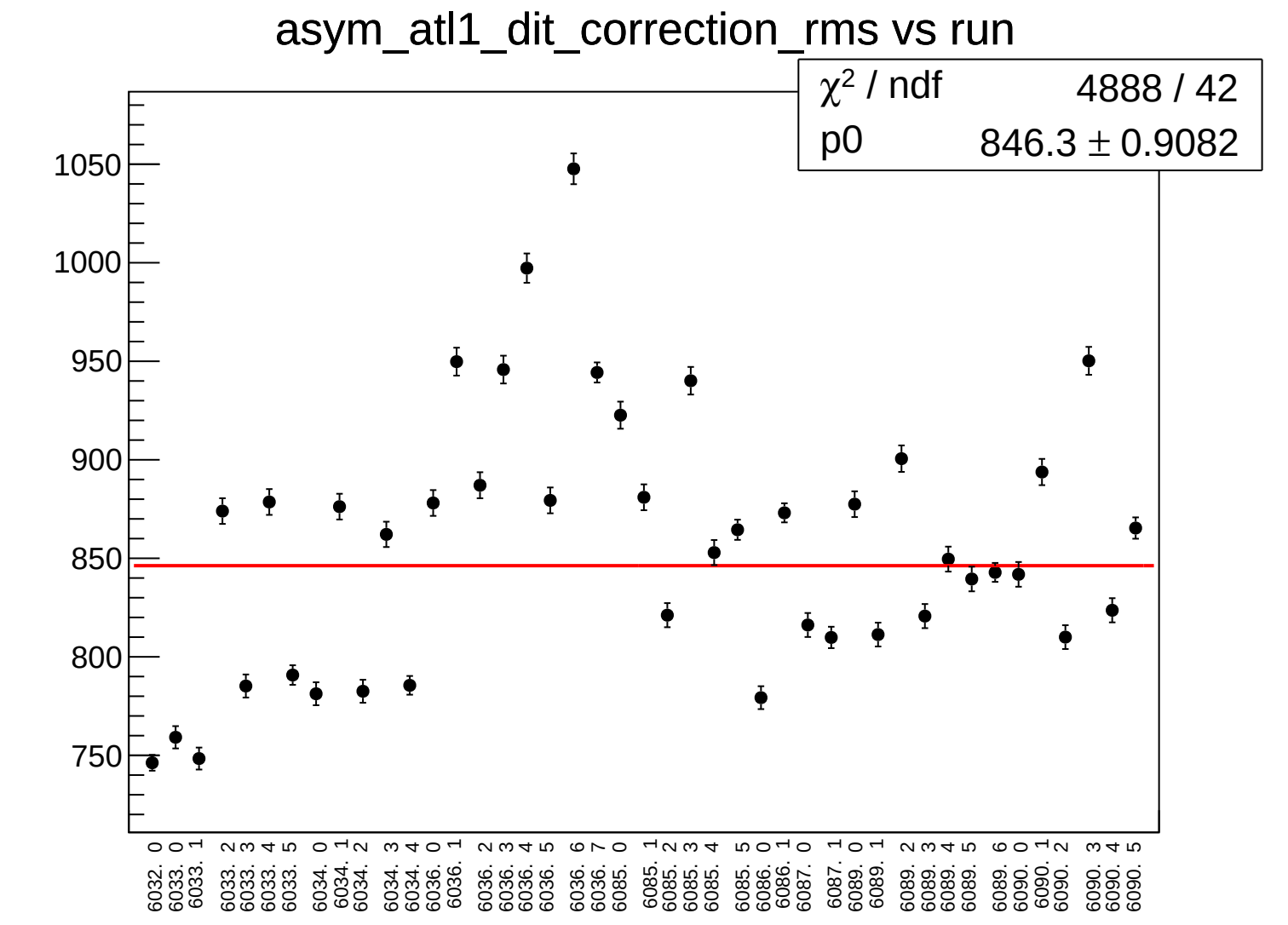
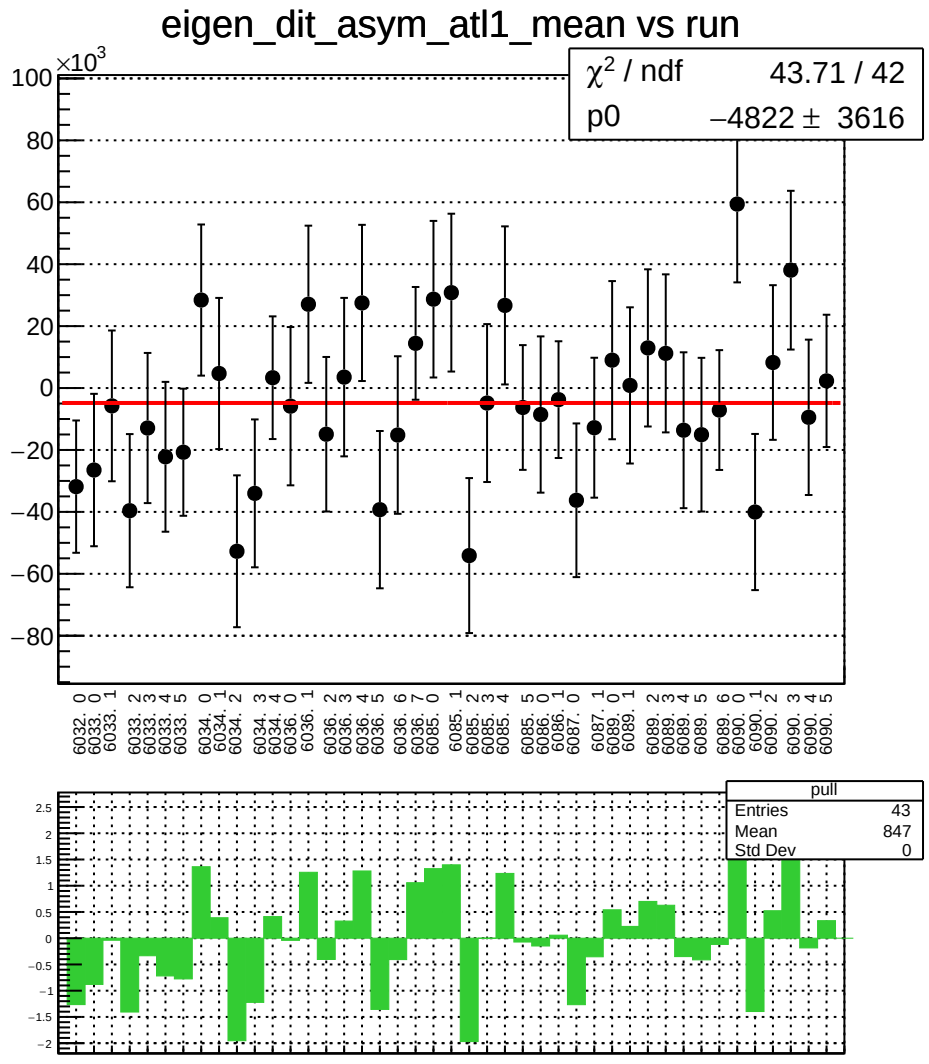
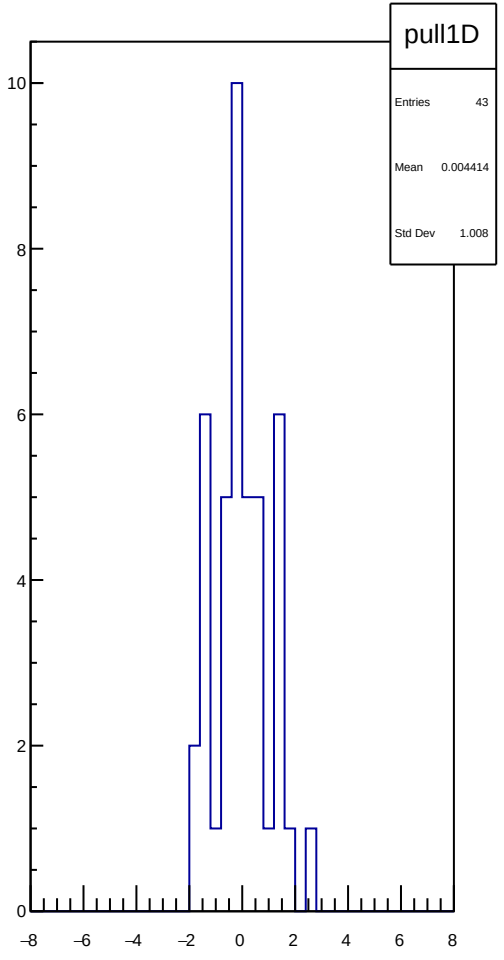
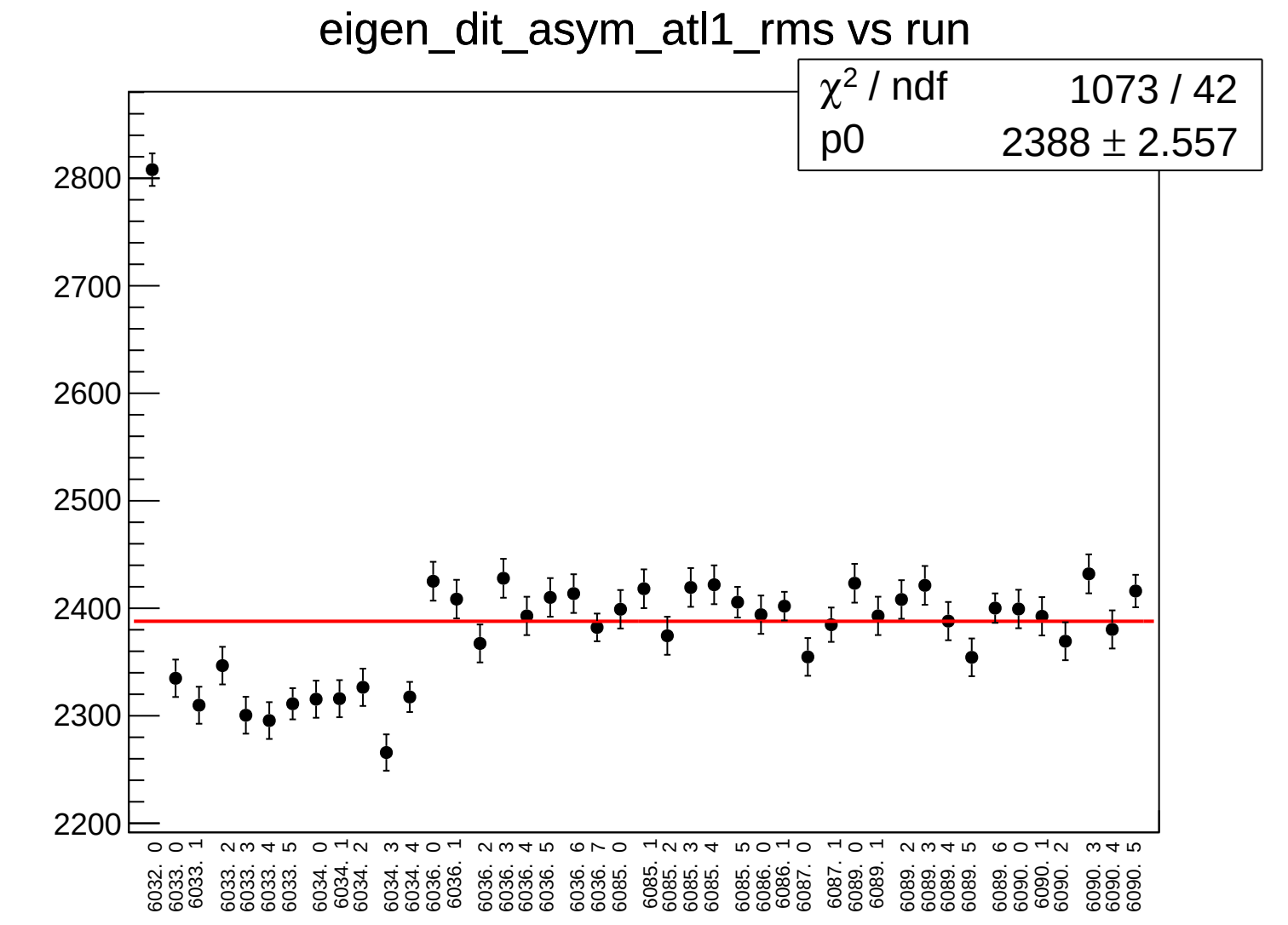
6090. 4
6090. 5


asym_atl1_dit_correction_mean vs run
χ² / ndf 39.26 / 42
p0 456.2 ± 1284
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −73.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01363
Std Dev 0.9554
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_dit_correction_rms vs run
χ² / ndf 4888 / 42
p0 846.3 ± 0.9082
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 43.71 / 42
p0 −4822 ± 3616
pull
Entries 43
Mean 847
Std Dev 0


pull1D
Entries 43
Mean 0.004414
Std Dev 1.008


eigen_dit_asym_atl1_rms vs run
χ² / ndf 1073 / 42
p0 2388 ± 2.557
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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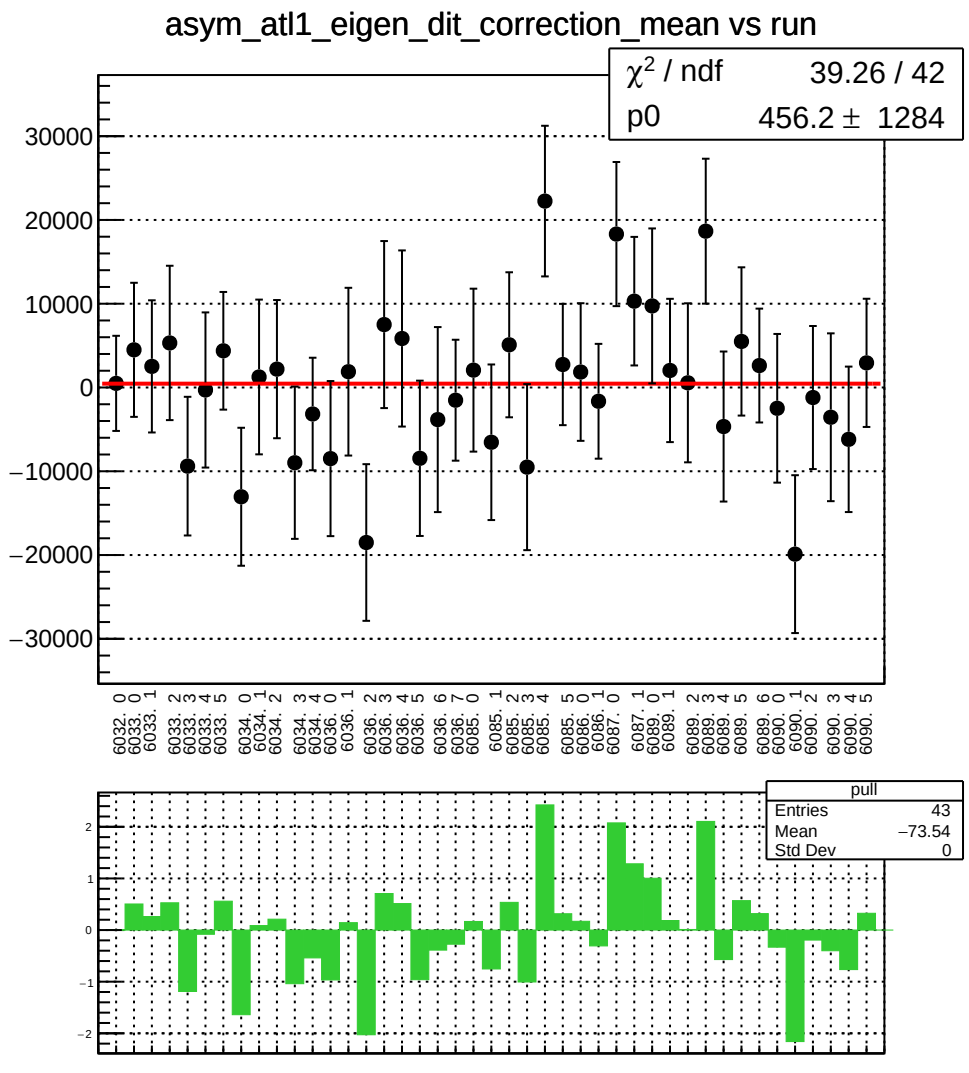
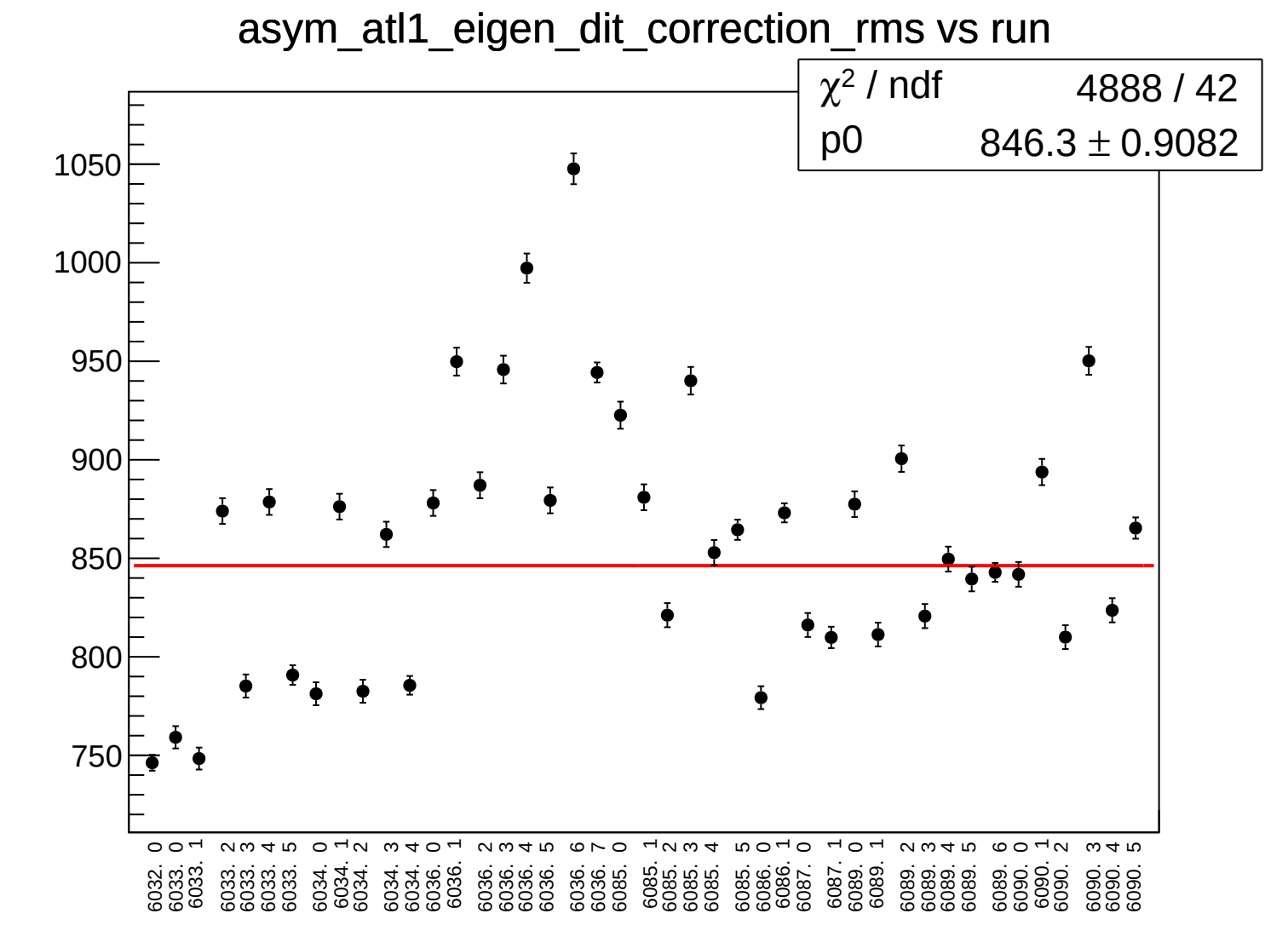
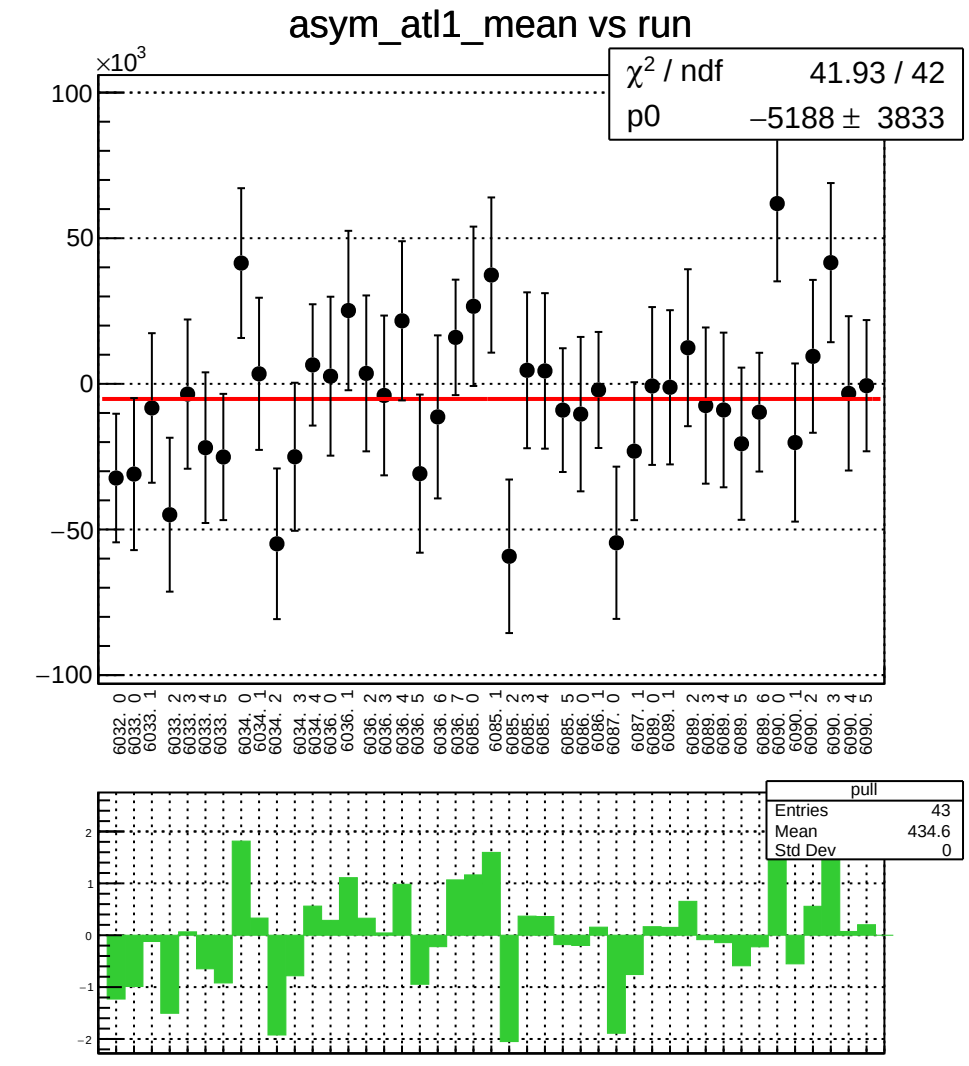
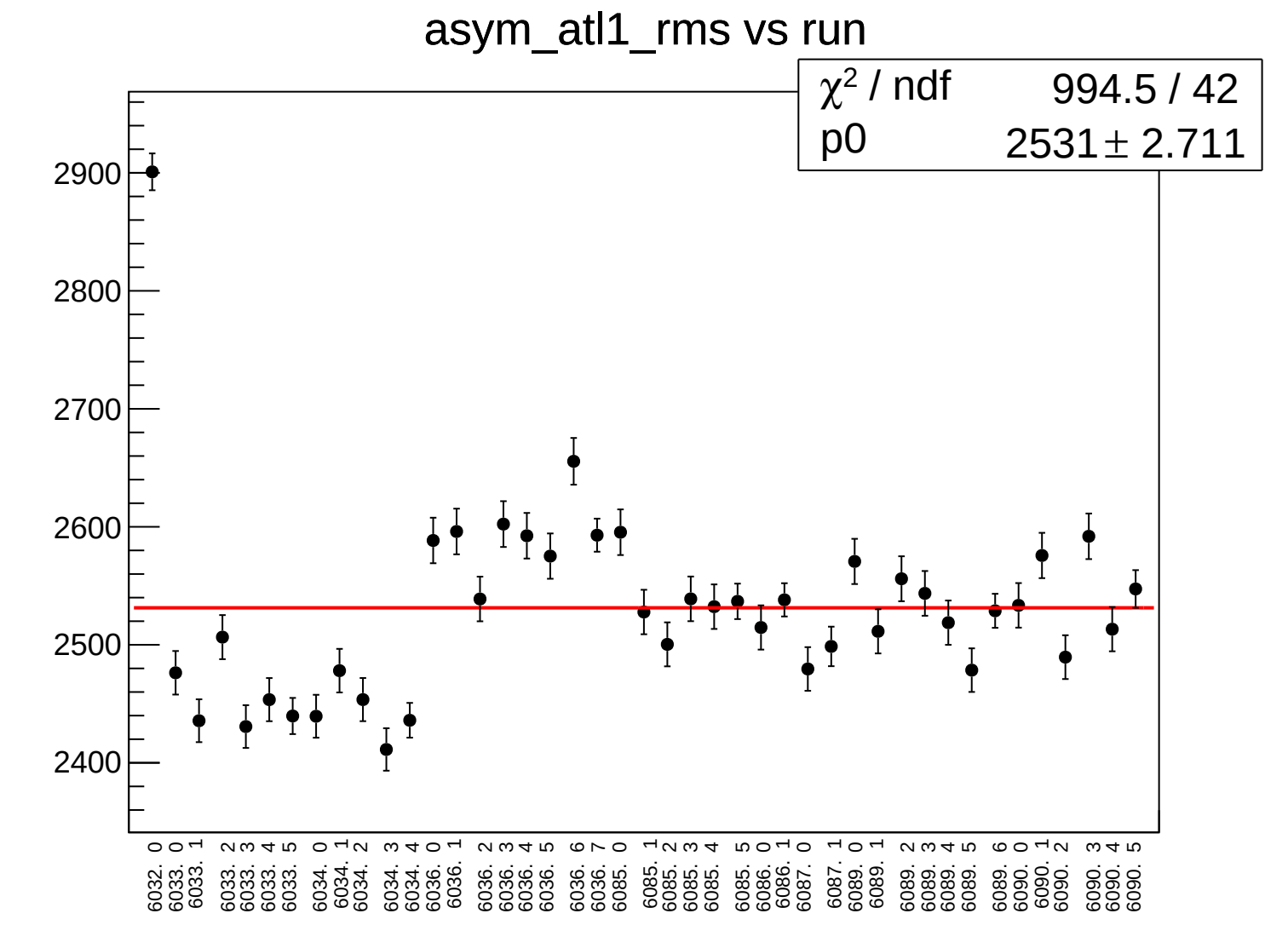
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 39.26 / 42
p0 456.2 ± 1284
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −73.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01363
Std Dev 0.9554
12
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 4888 / 42
p0 846.3 ± 0.9082
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 41.93 / 42
p0 −5188 ± 3833
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 434.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.007381
Std Dev 0.9875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_rms vs run
χ² / ndf 994.5 / 42
p0 2531 ± 2.711
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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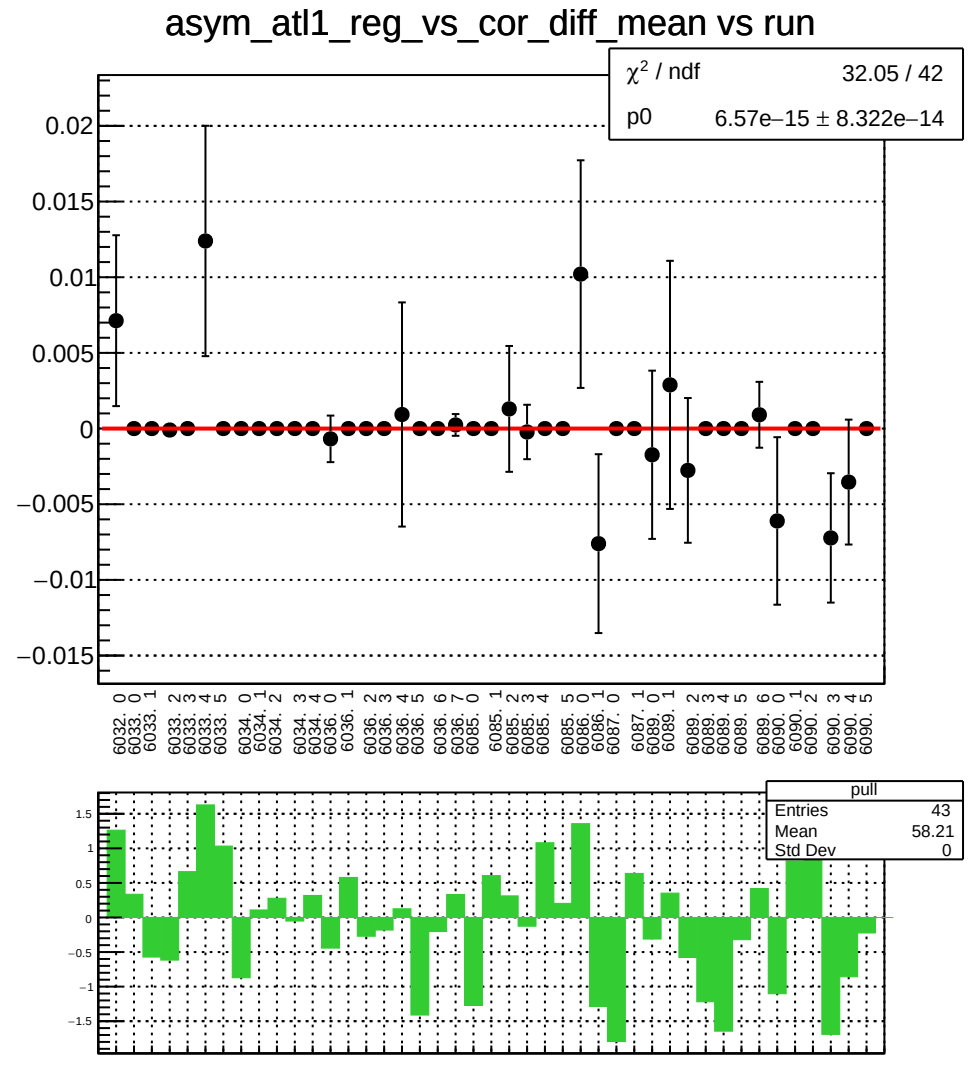
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 32.05 / 42
p0 6.57e−15 ± 8.322e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
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6034. 4
6036. 0
6036. 1
6036. 2
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6036. 7
6085. 0
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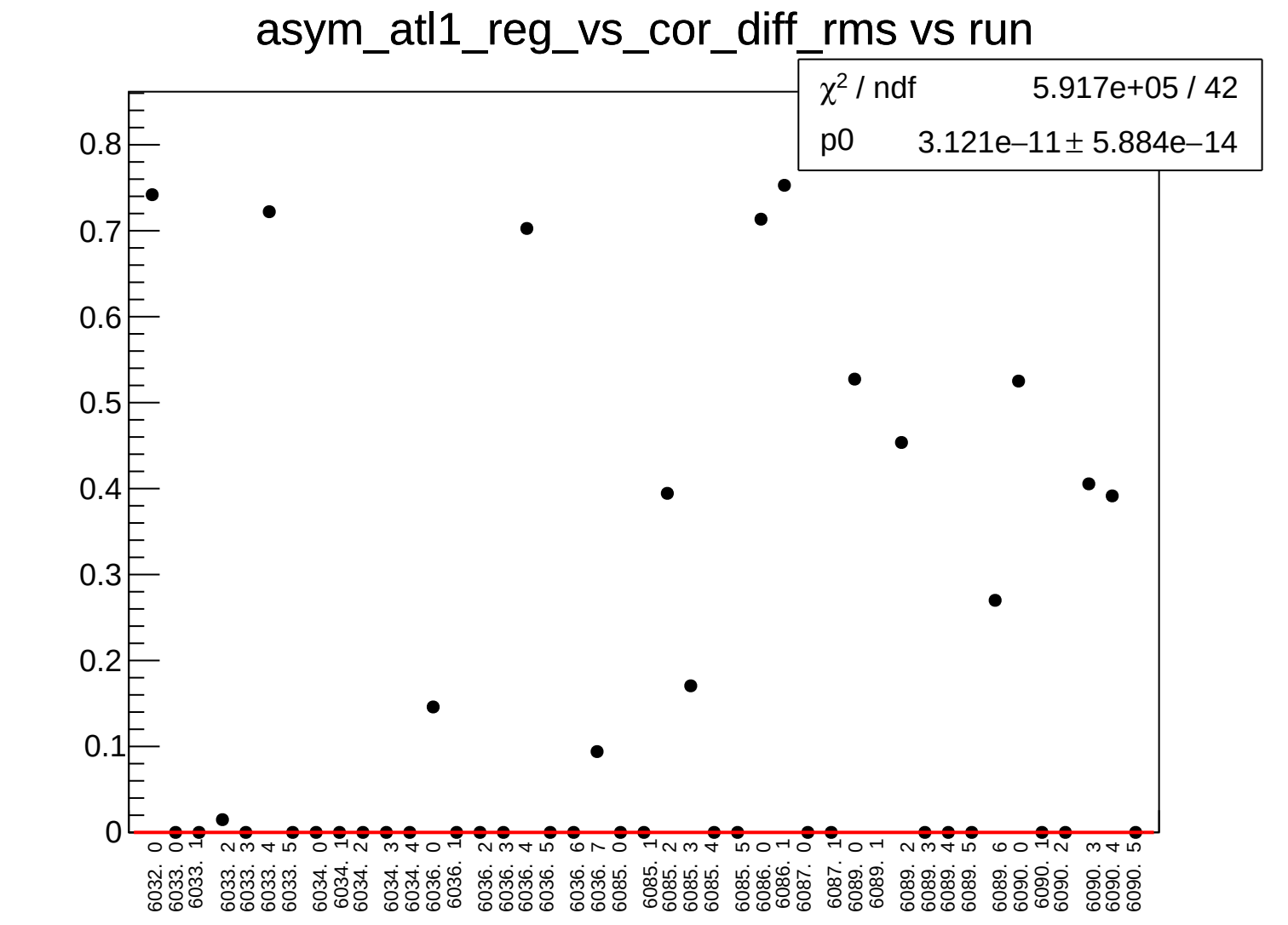
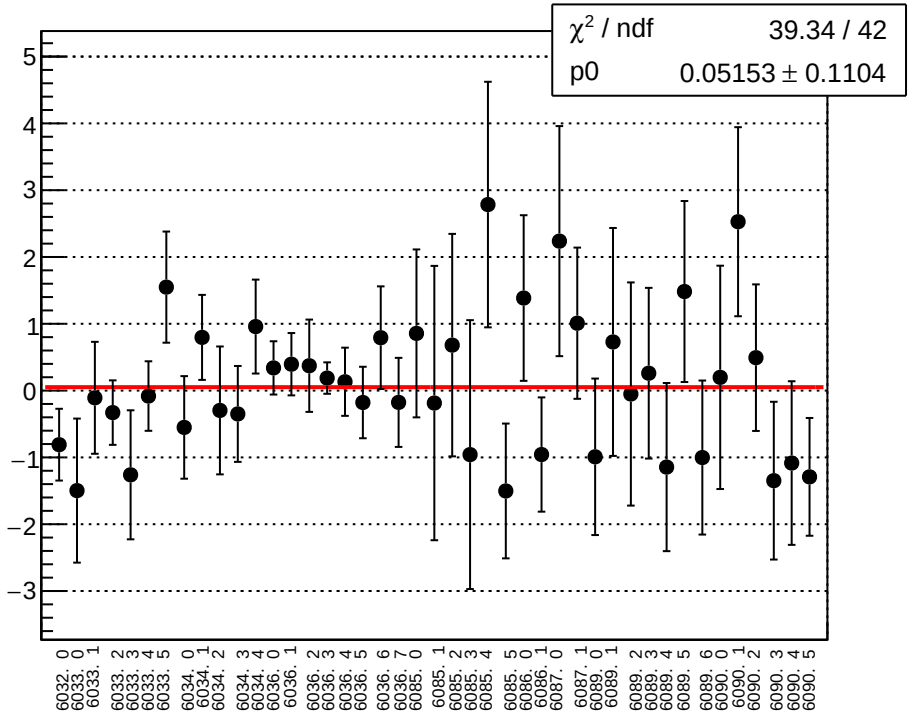
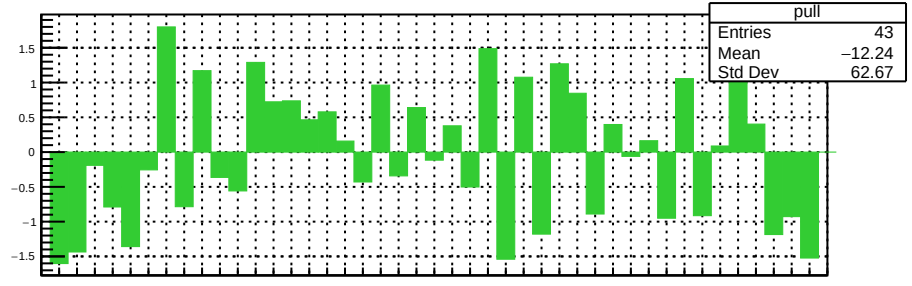
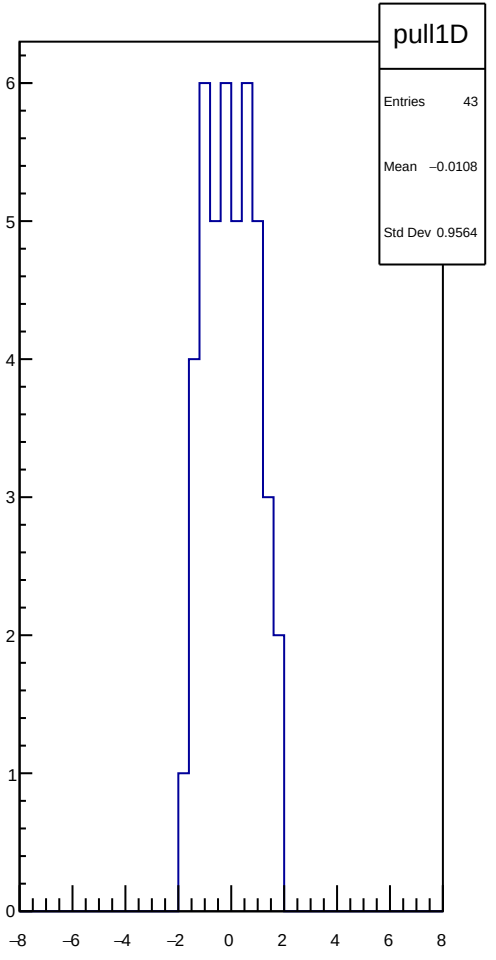
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 58.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.08677
Std Dev 0.859
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

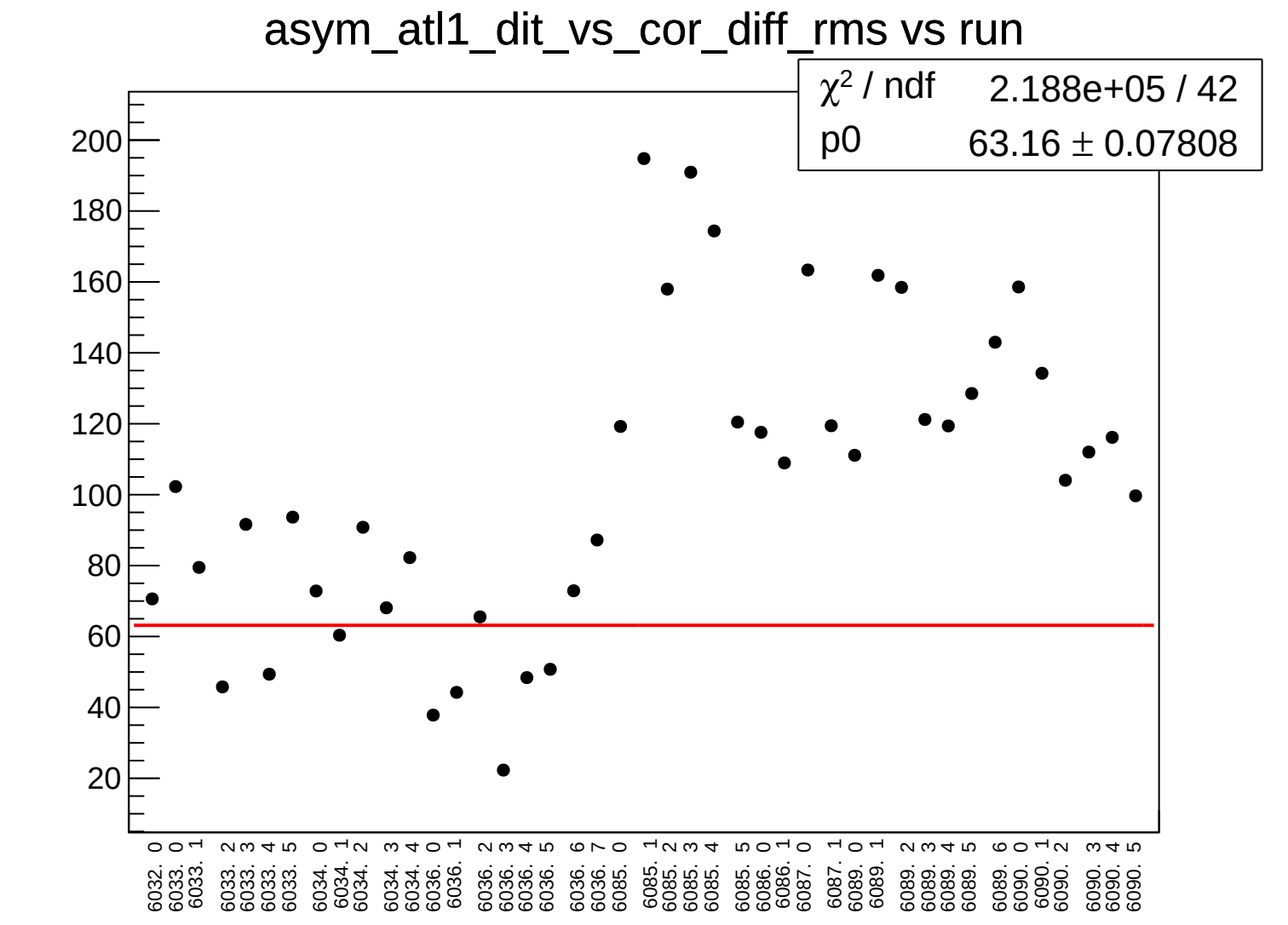

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.917e+05 / 42
p0 3.121e−11 ± 5.884e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

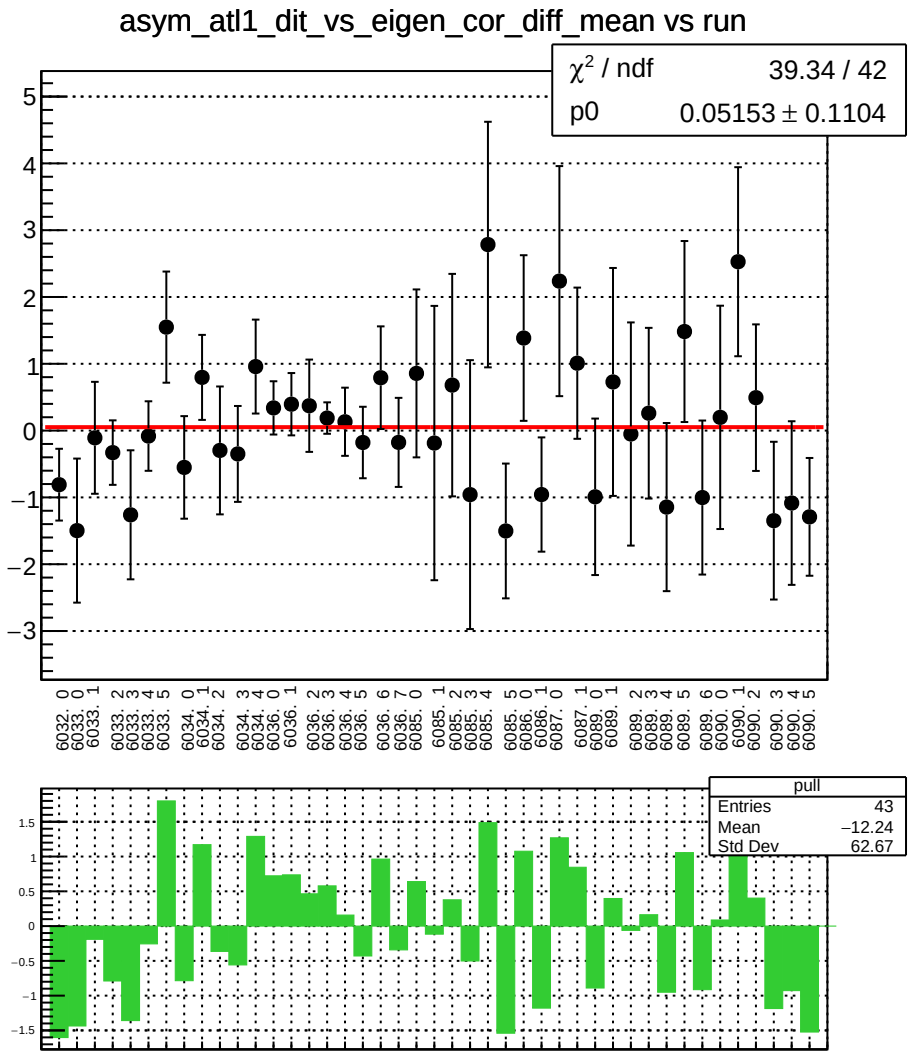
asym_atl1_dit_vs_cor_diff_mean vs run

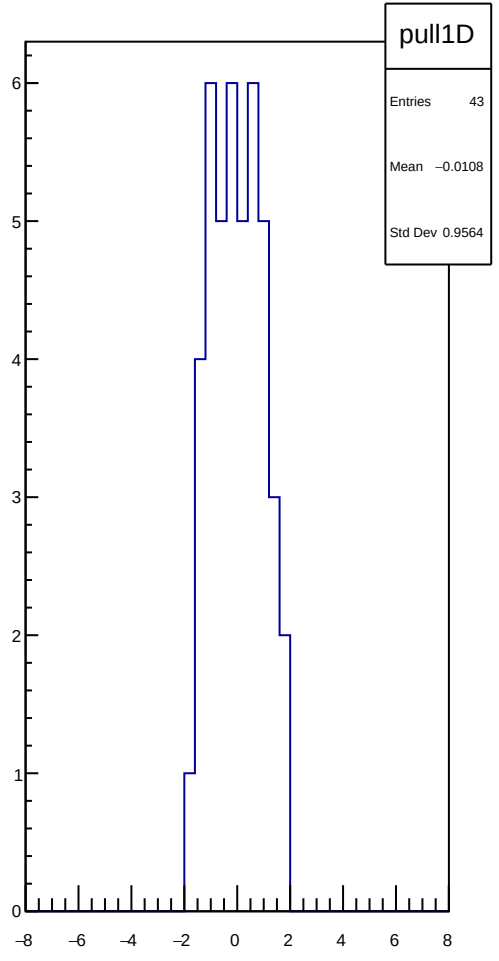


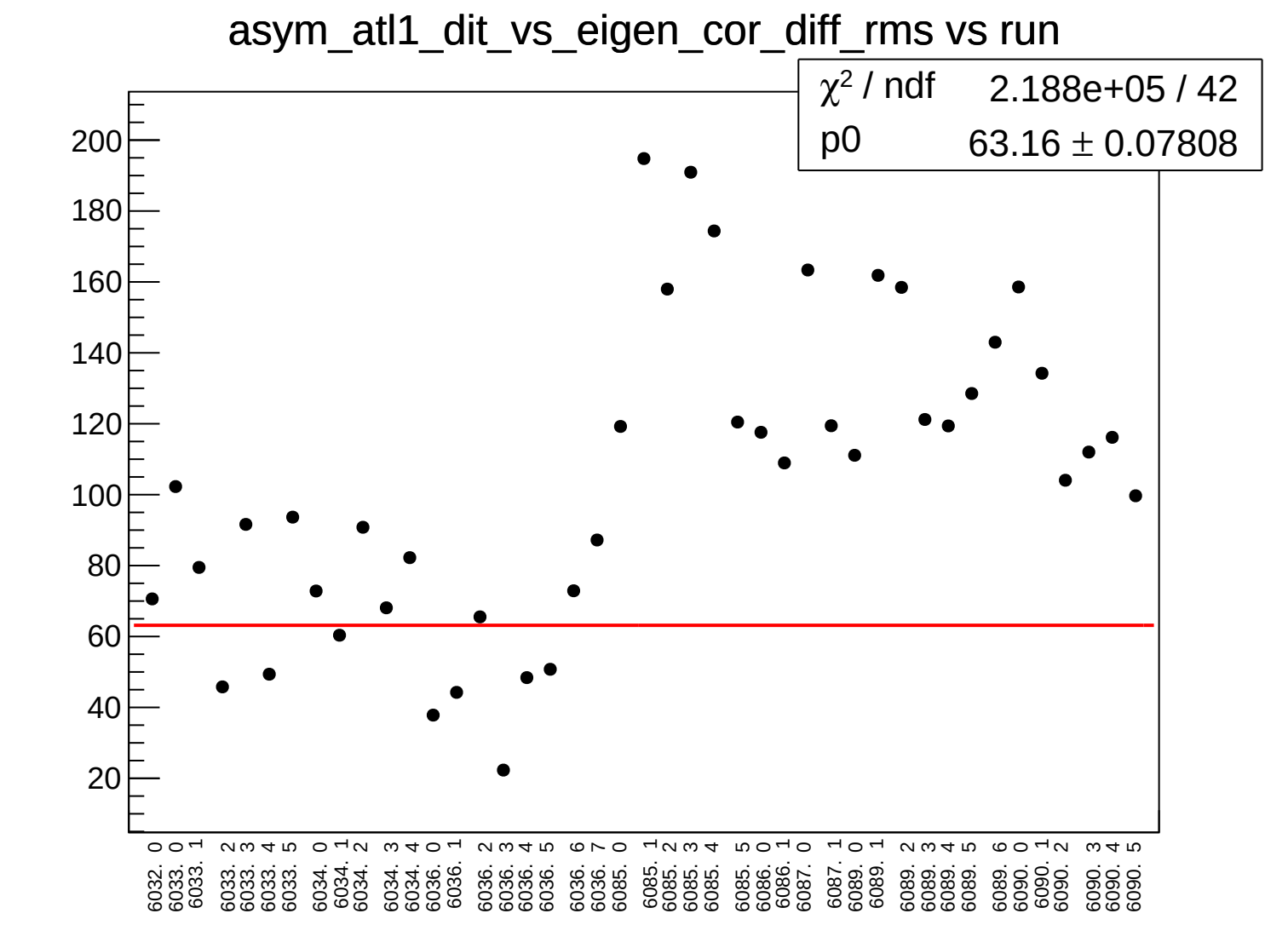


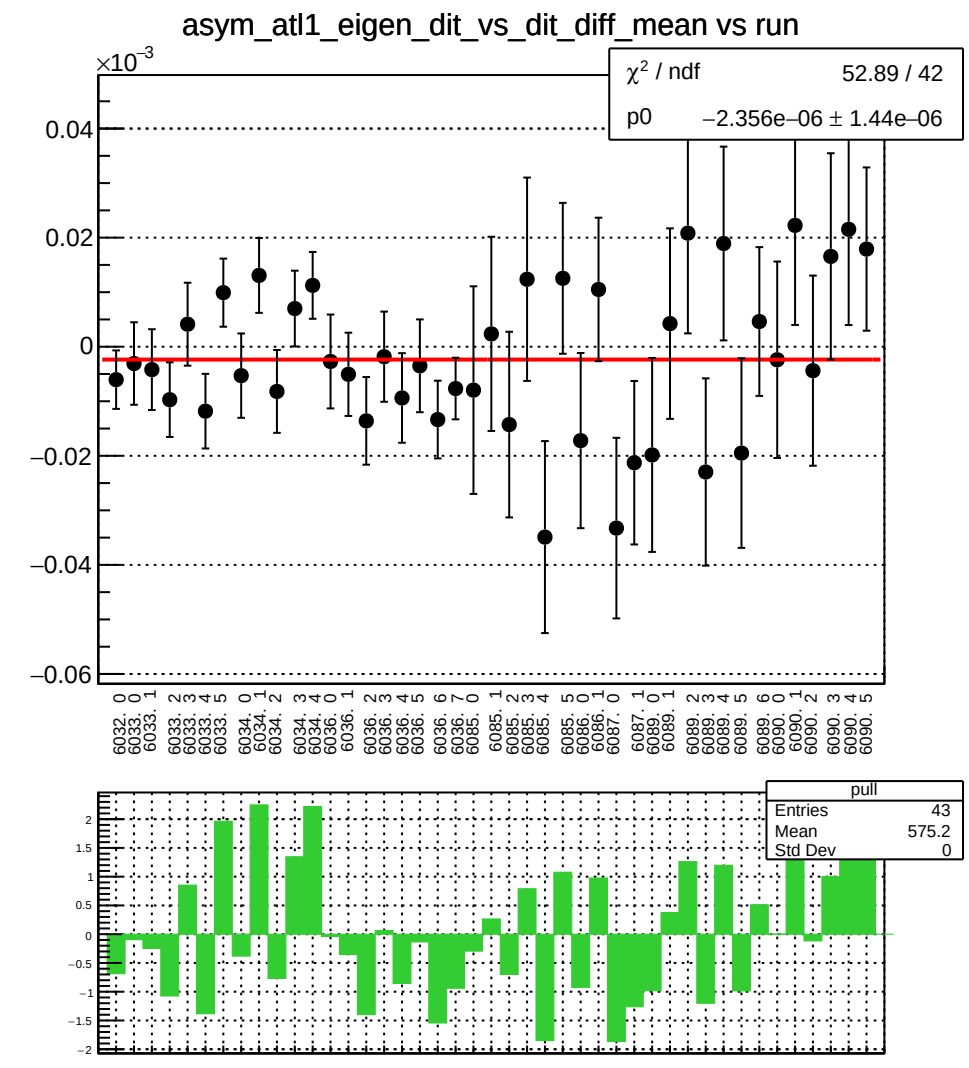


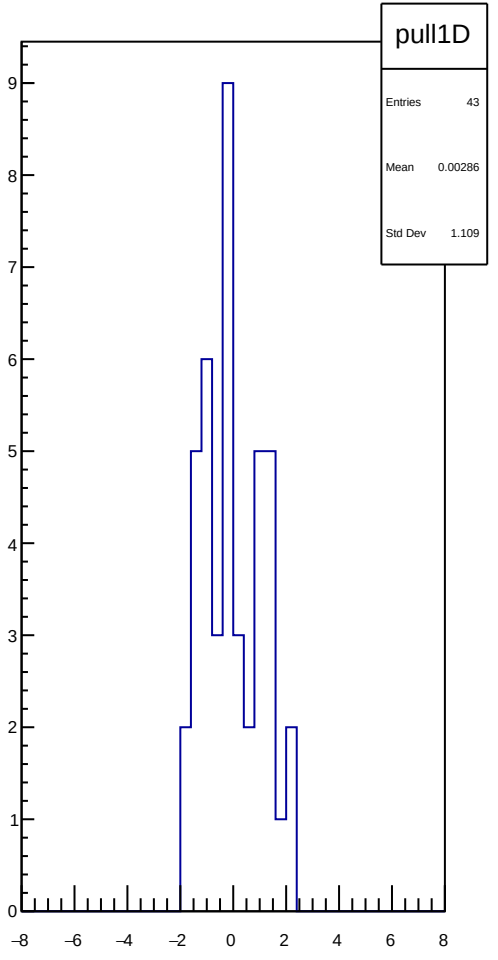

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 42
p0 63.16 ± 0.07808
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

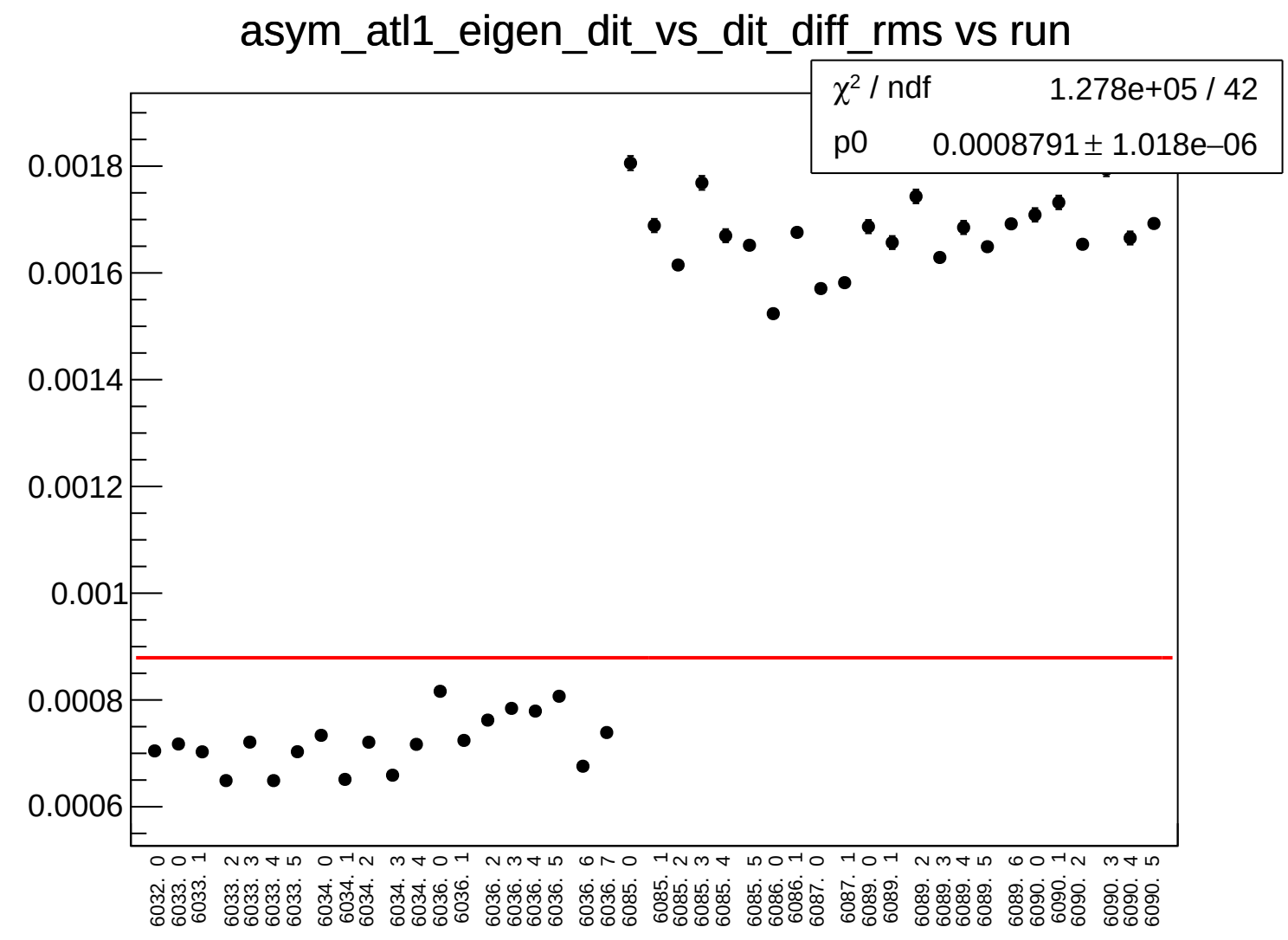

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.34 / 42
p0 0.05153 ± 0.1104
pull
Entries 43
Mean −12.24
Std Dev 62.67


pull1D
Entries 43
Mean −0.0108
Std Dev 0.9564

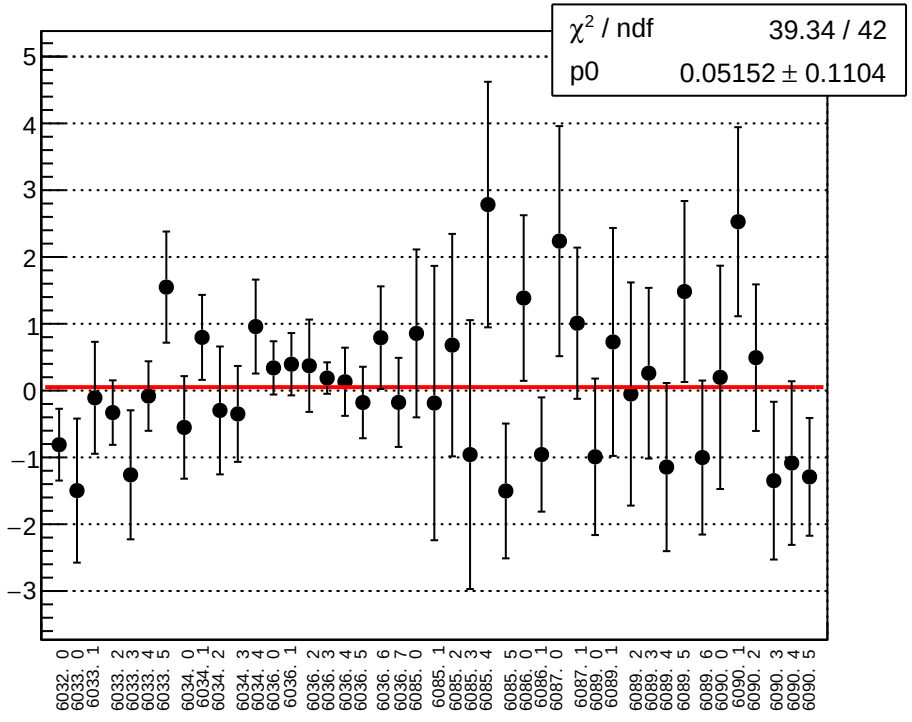

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 42
p0 63.16 ± 0.07808
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

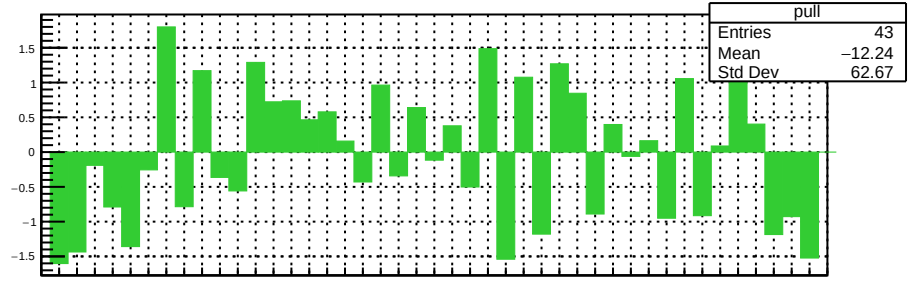

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.89 / 42
p0 −2.356e−06 ± 1.44e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 575.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

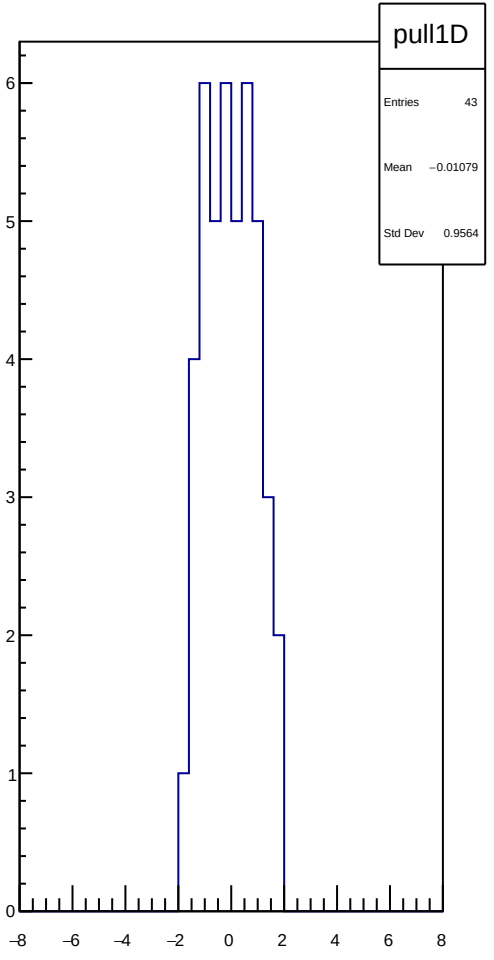

pull1D
Entries 43
Mean 0.00286
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

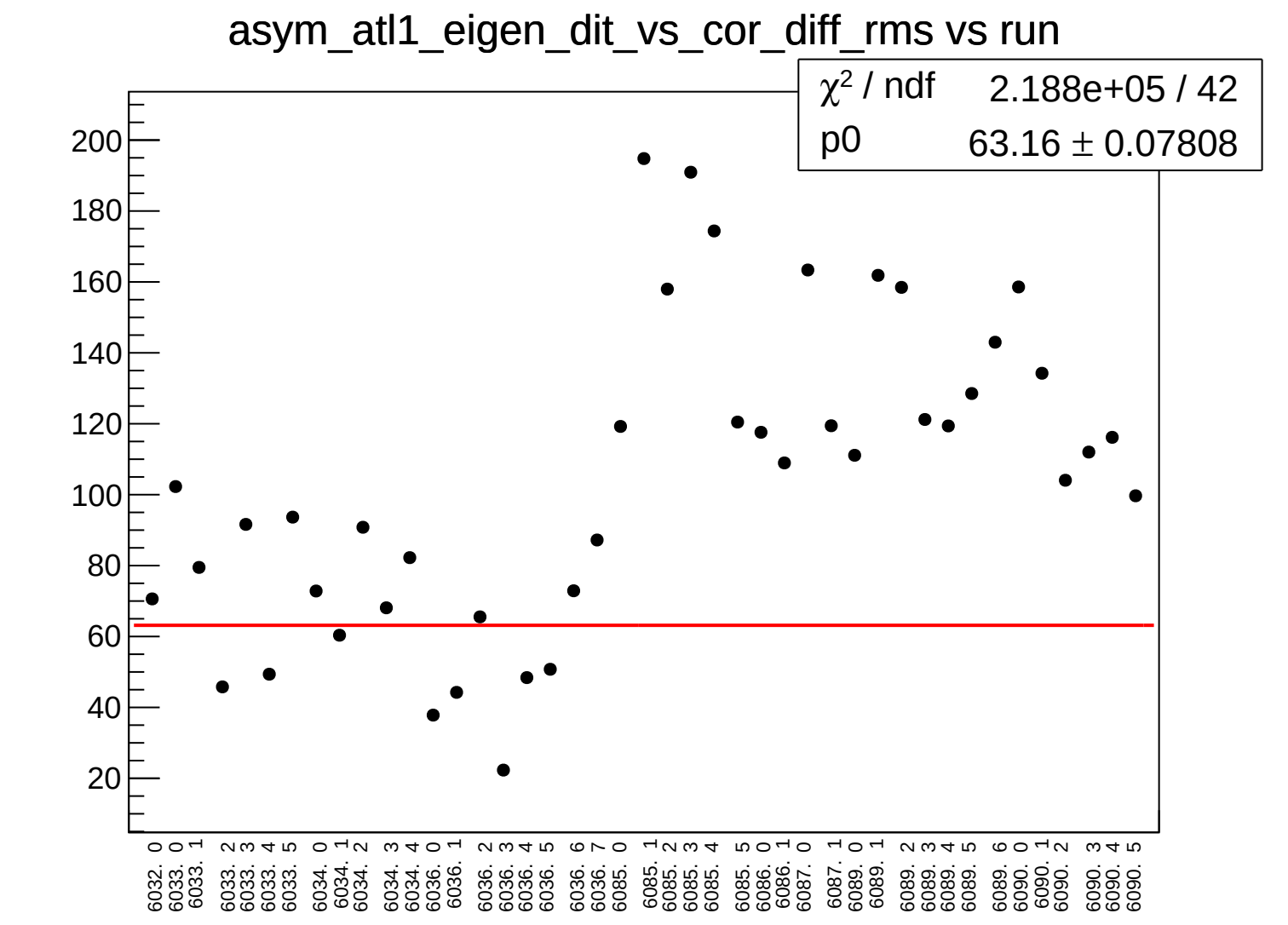

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.278e+05 / 42
p0 0.0008791 ± 1.018e−06
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

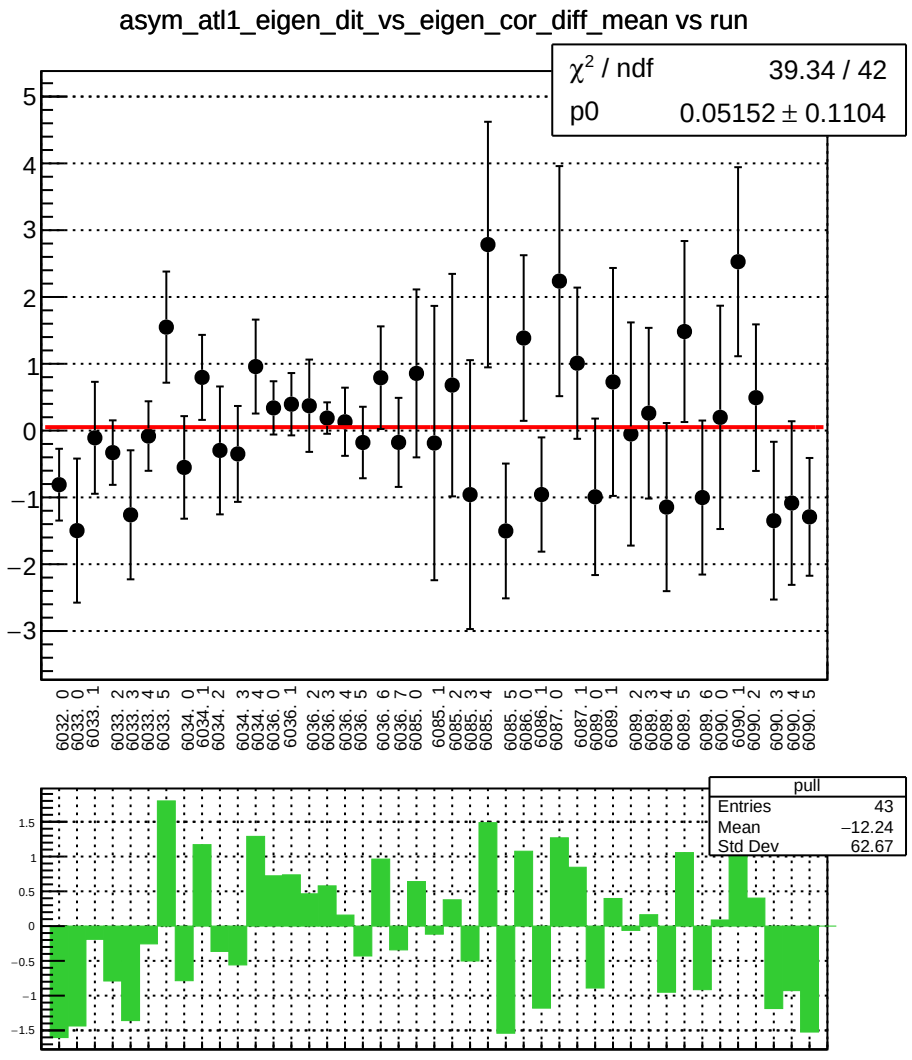
asym_atl1_eigen_dit_vs_cor_diff_mean vs run

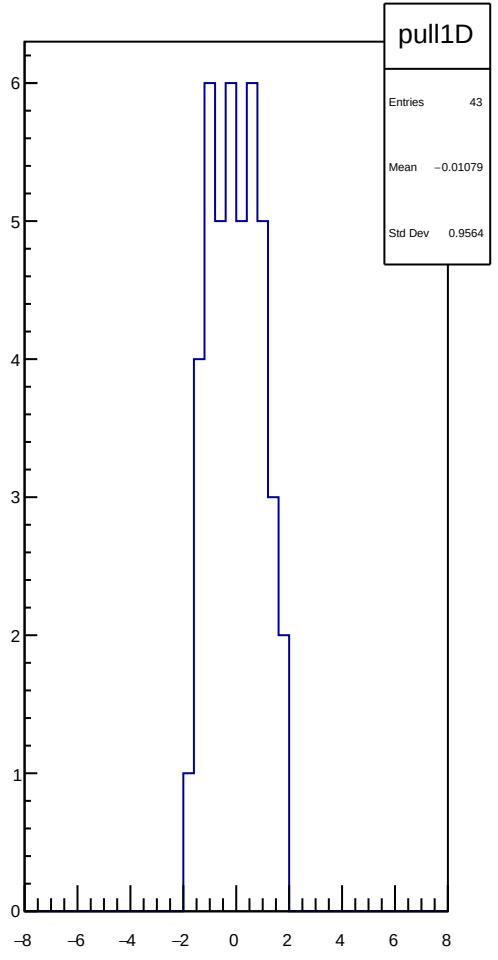


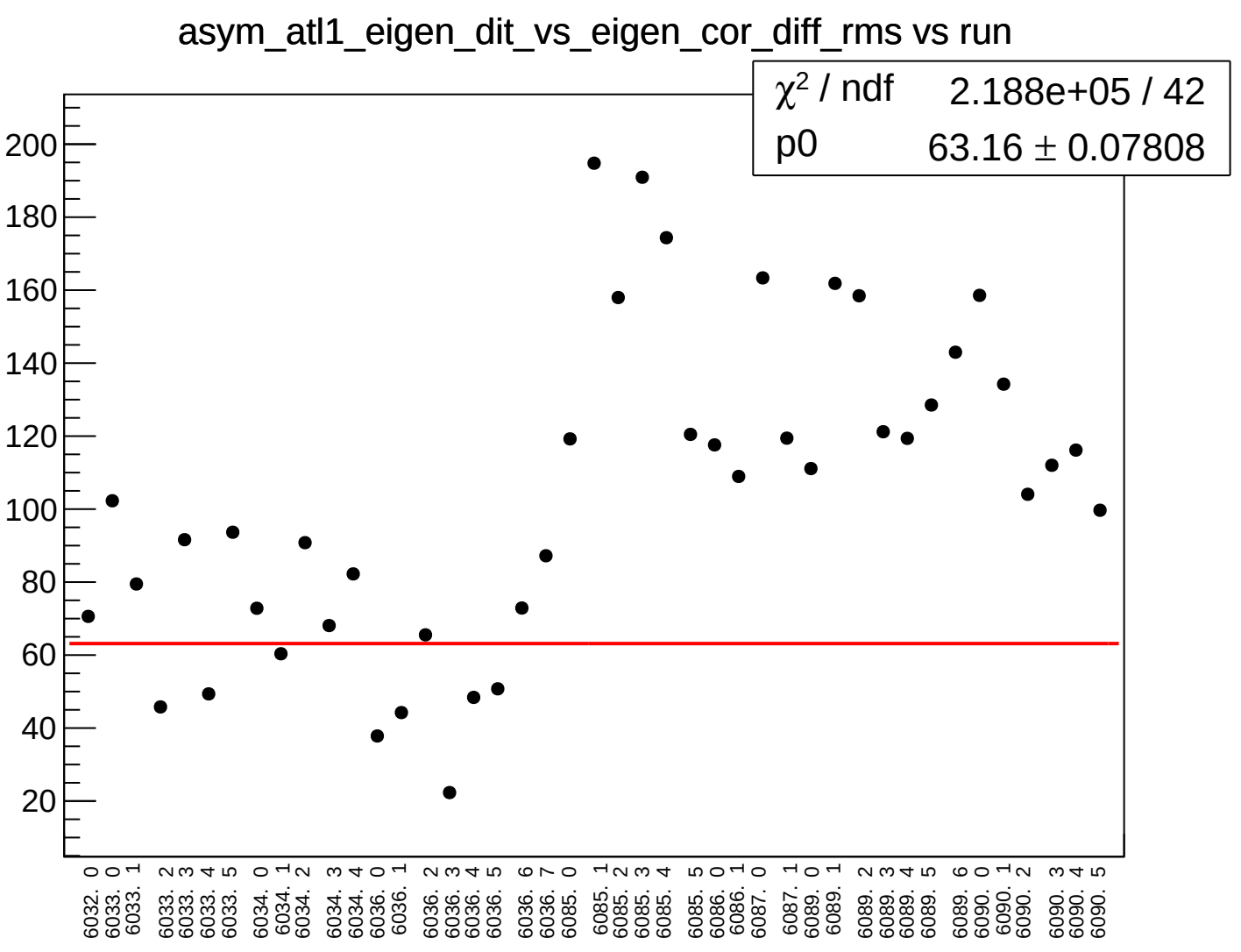


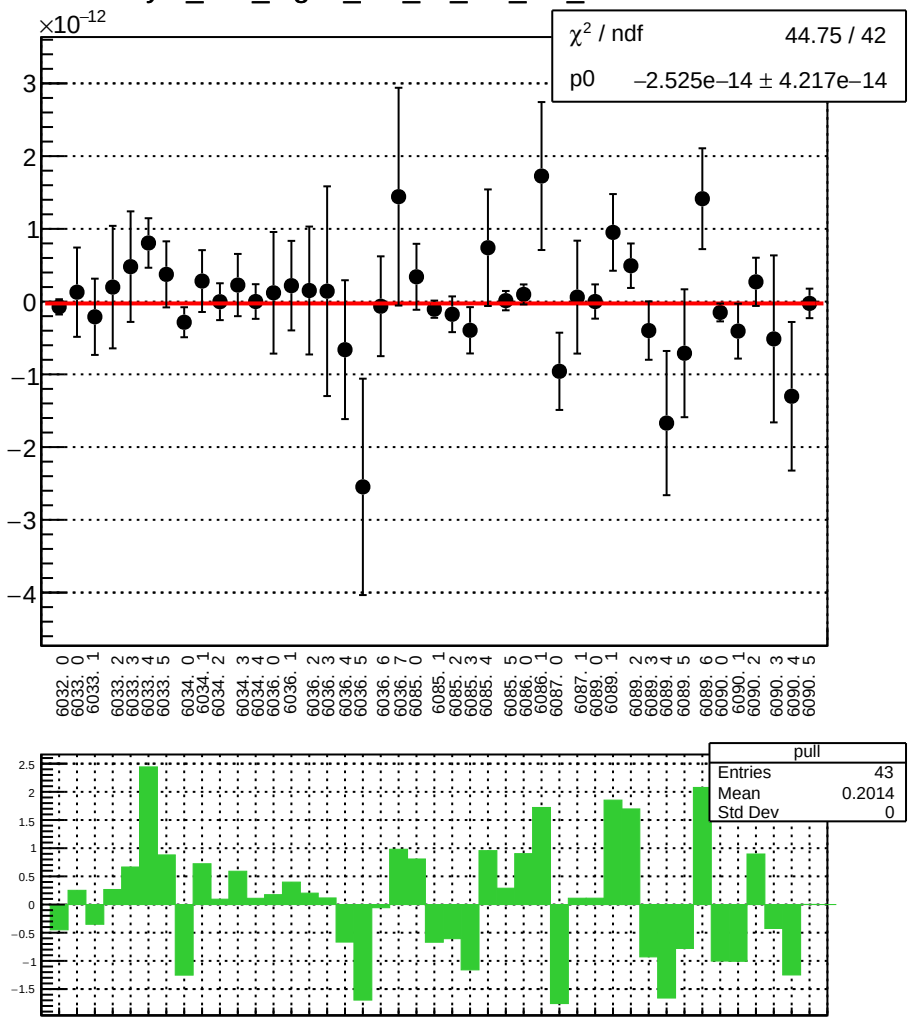


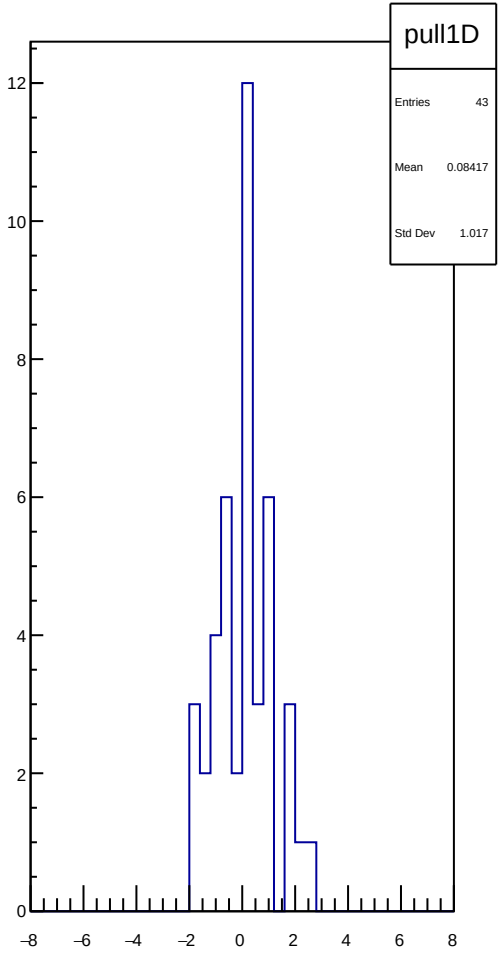

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 42
p0 63.16 ± 0.07808
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

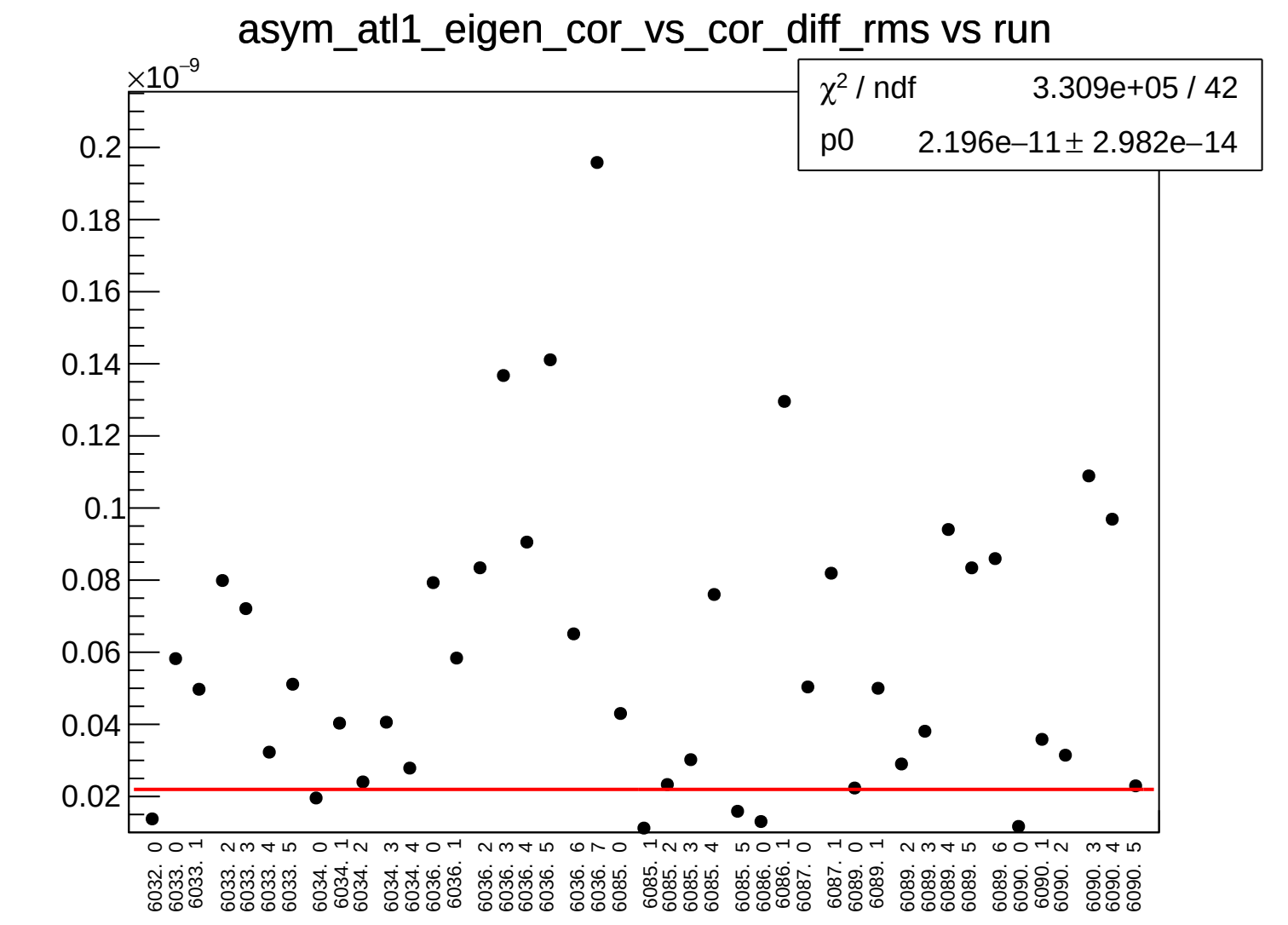

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.34 / 42
p0 0.05152 ± 0.1104
pull
Entries 43
Mean −12.24
Std Dev 62.67

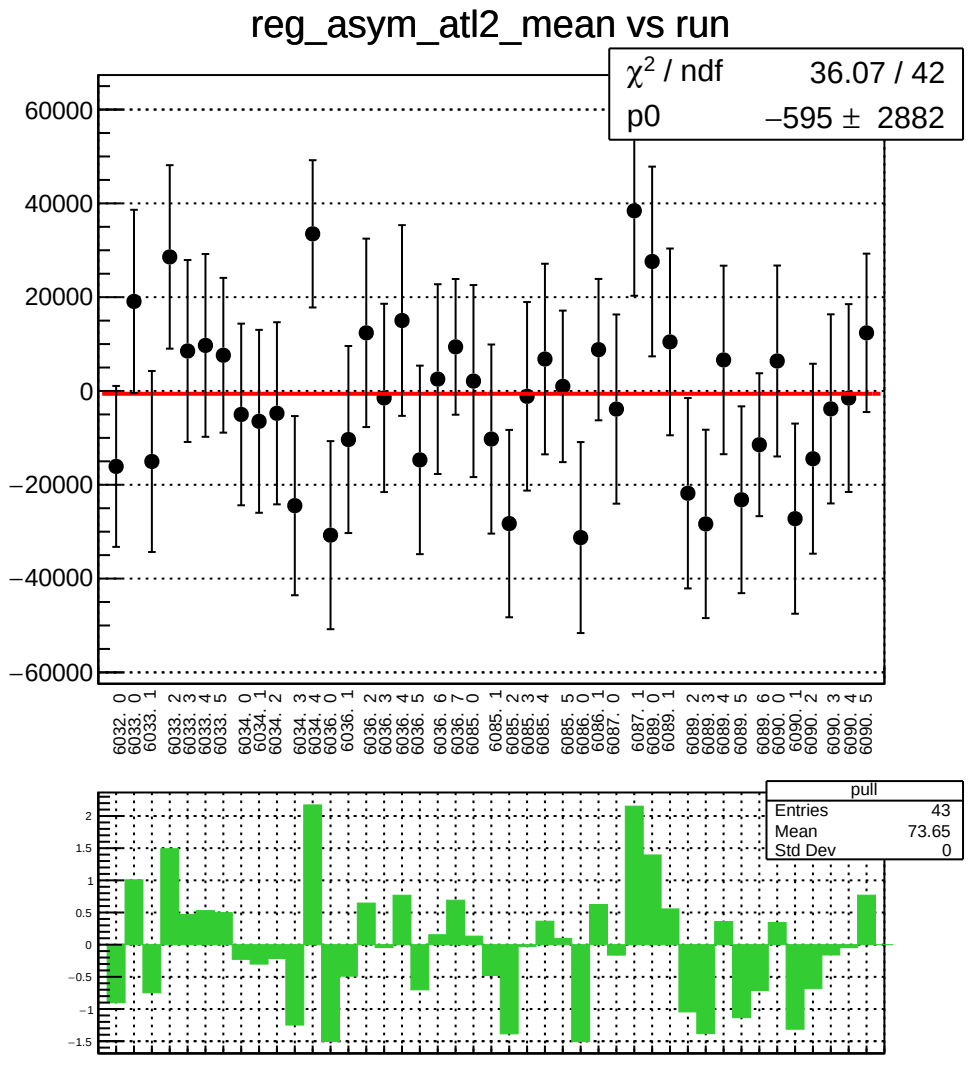

pull1D
Entries 43
Mean −0.01079
Std Dev 0.9564

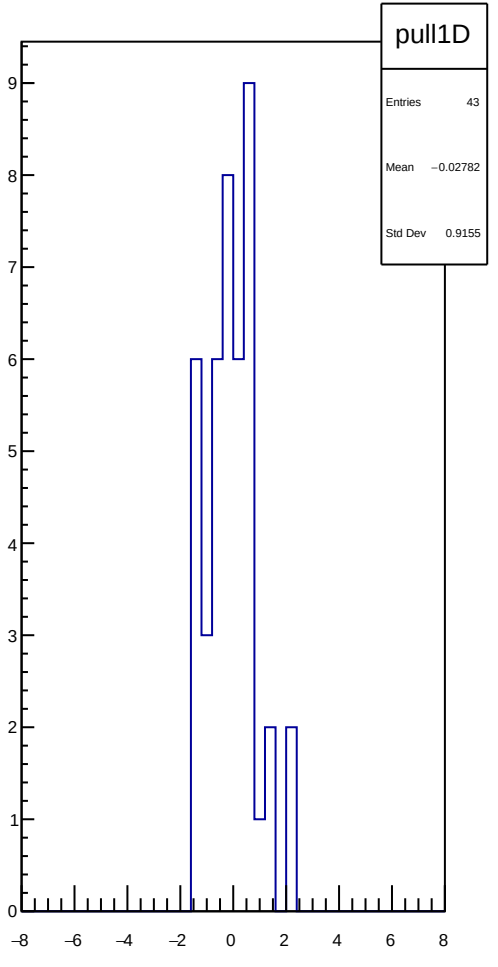

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.188e+05 / 42
p0 63.16 ± 0.07808
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

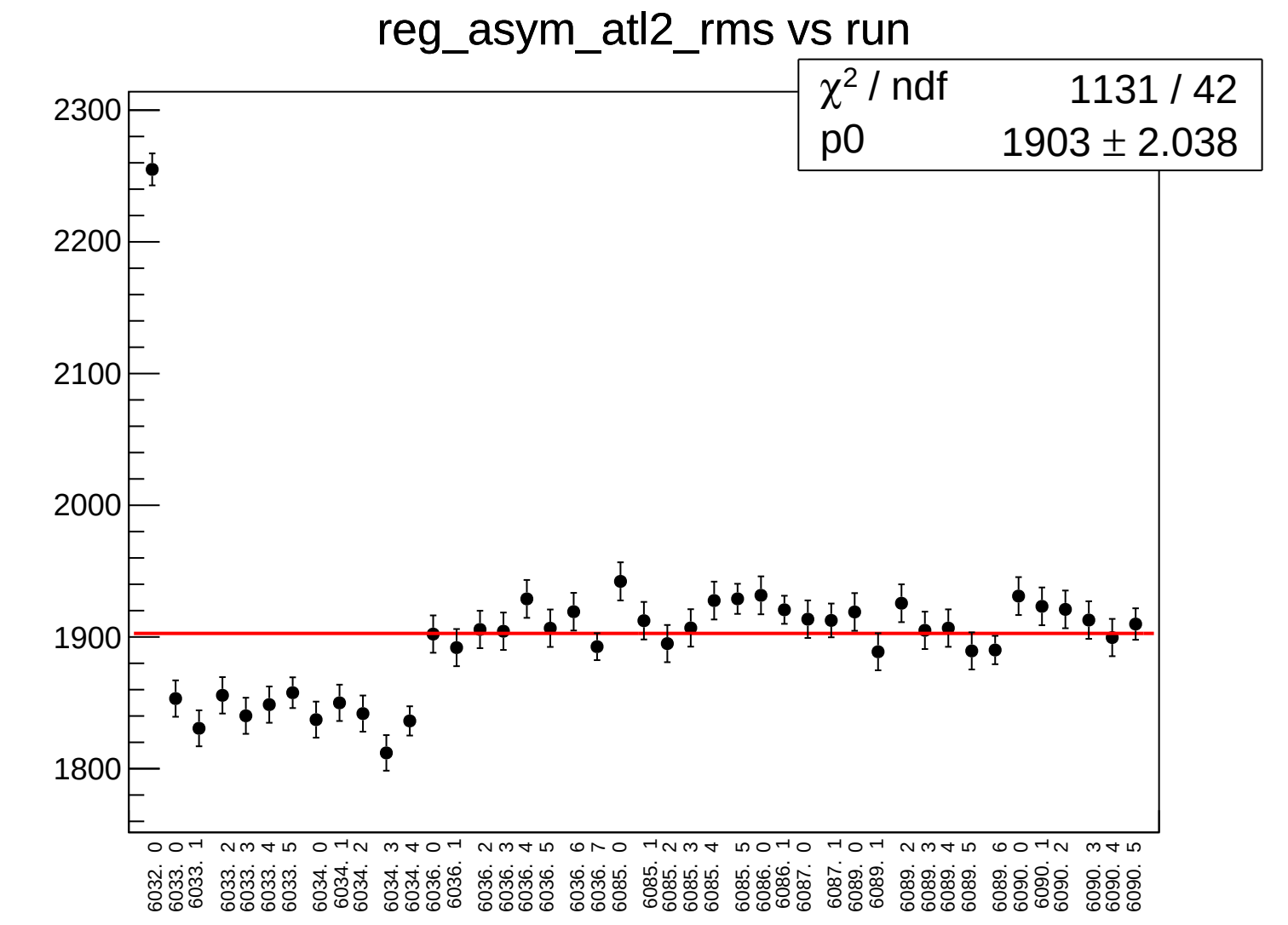

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.75 / 42
p0 −2.525e−14 ± 4.217e−14
pull
Entries 43
Mean 0.2014
Std Dev 0

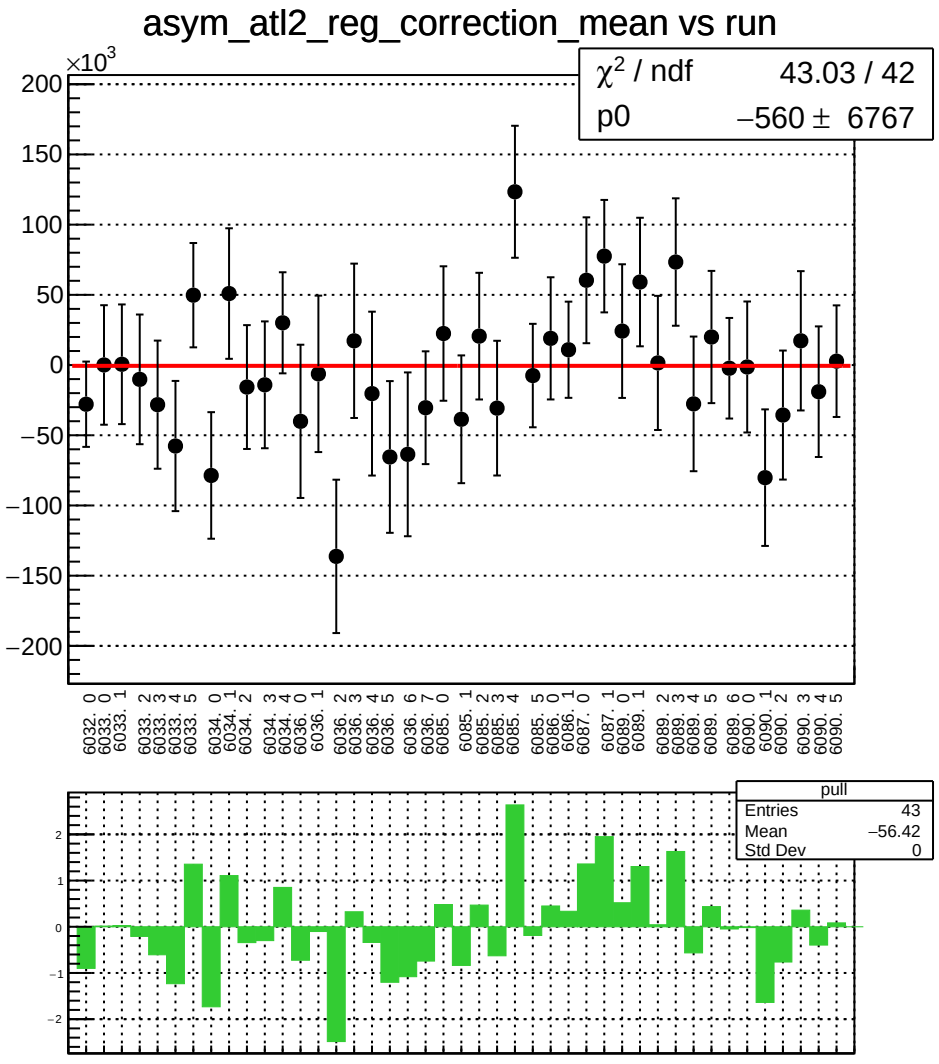

pull1D
Entries 43
Mean 0.08417
Std Dev 1.017

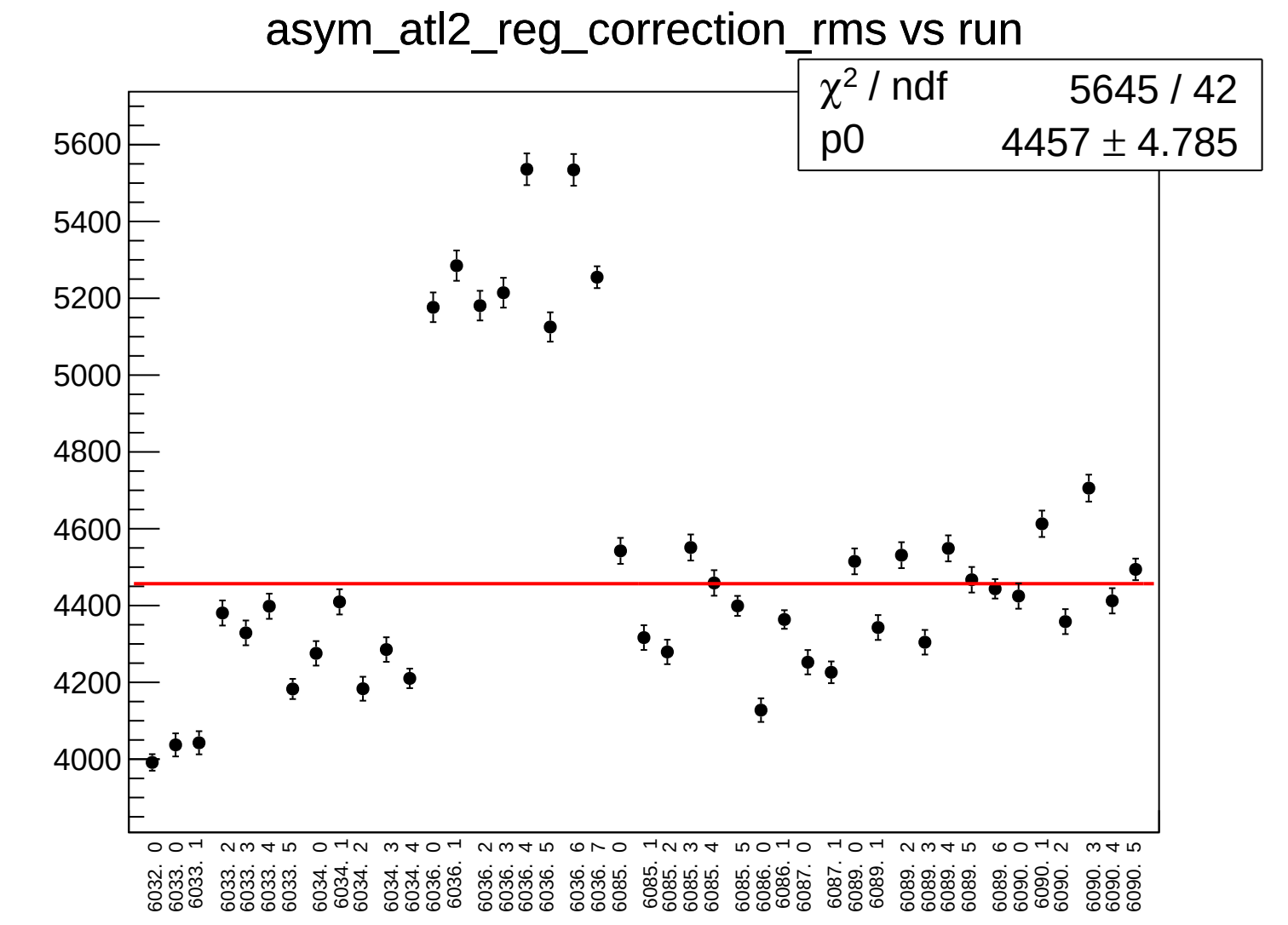

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.309e+05 / 42
p0 2.196e−11 ± 2.982e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

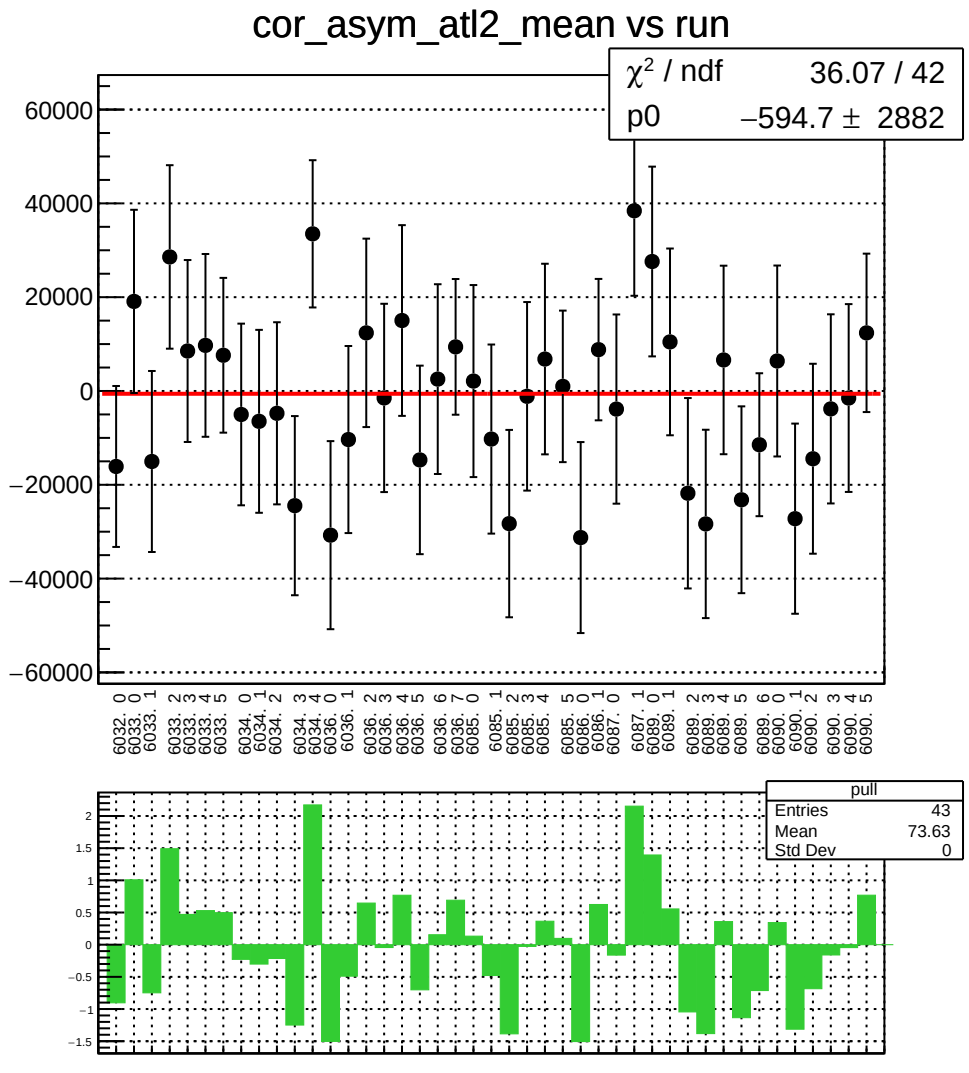

reg_asym_atl2_mean vs run
χ² / ndf 36.07 / 42
p0 −595 ± 2882
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 73.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

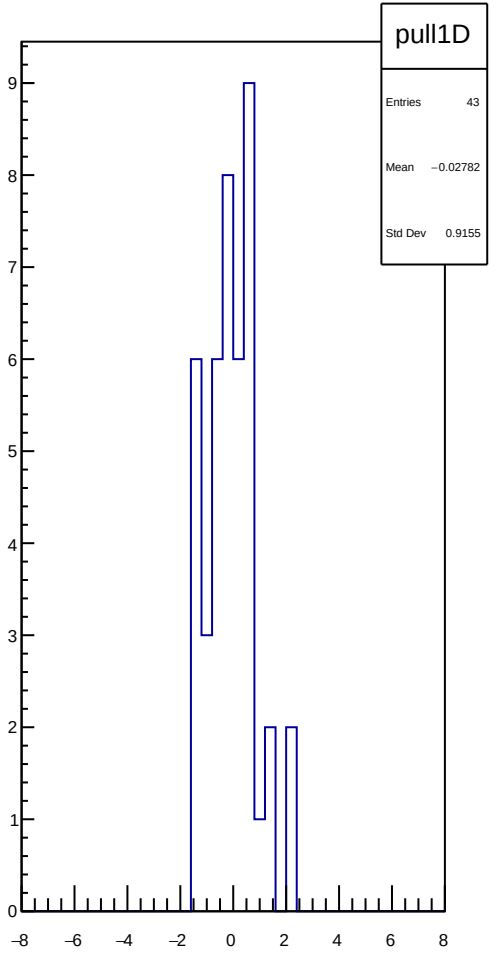

pull1D
Entries 43
Mean −0.02782
Std Dev 0.9155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

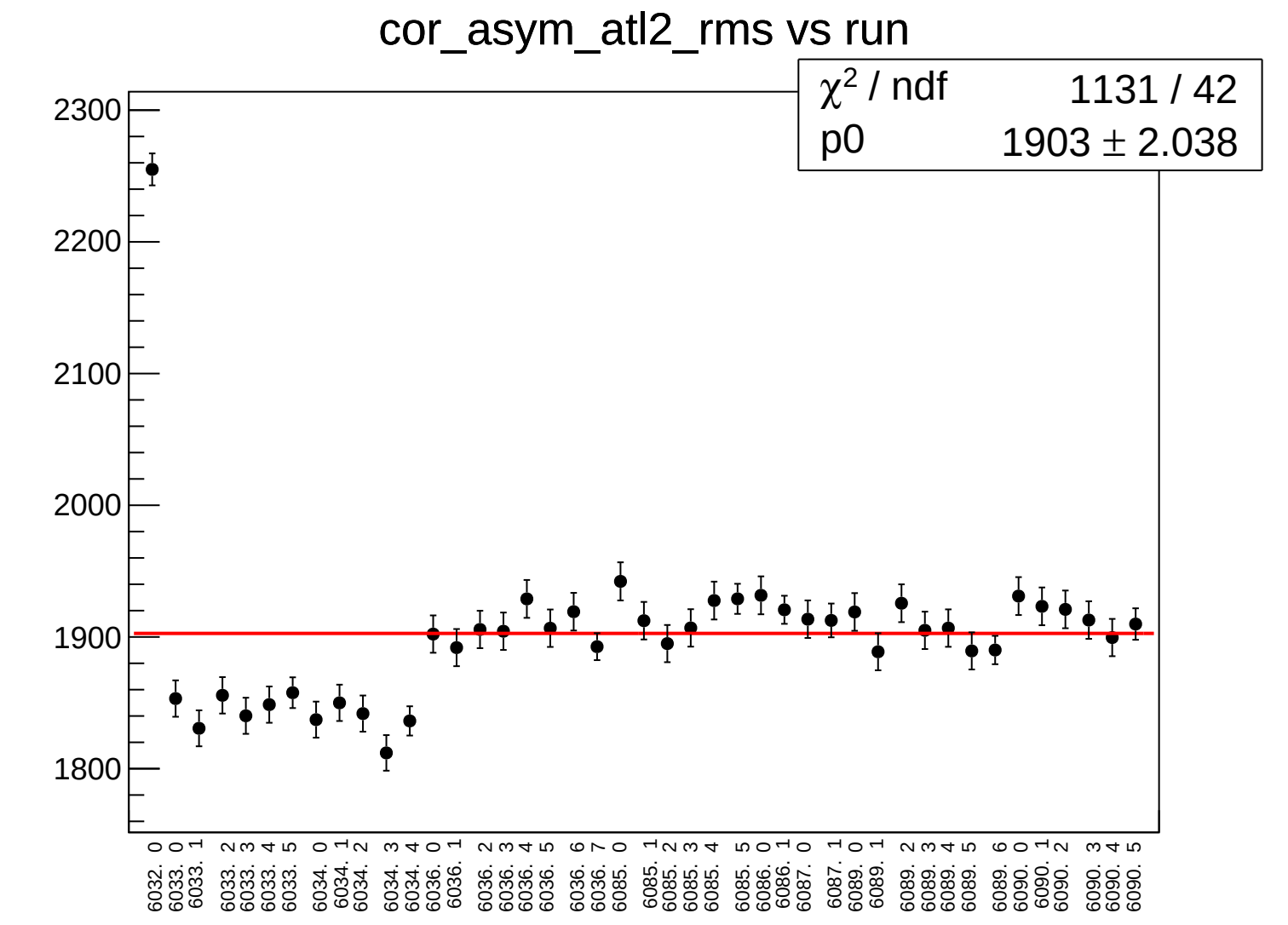

reg_asym_atl2_rms vs run
χ² / ndf 1131 / 42
p0 1903 ± 2.038
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

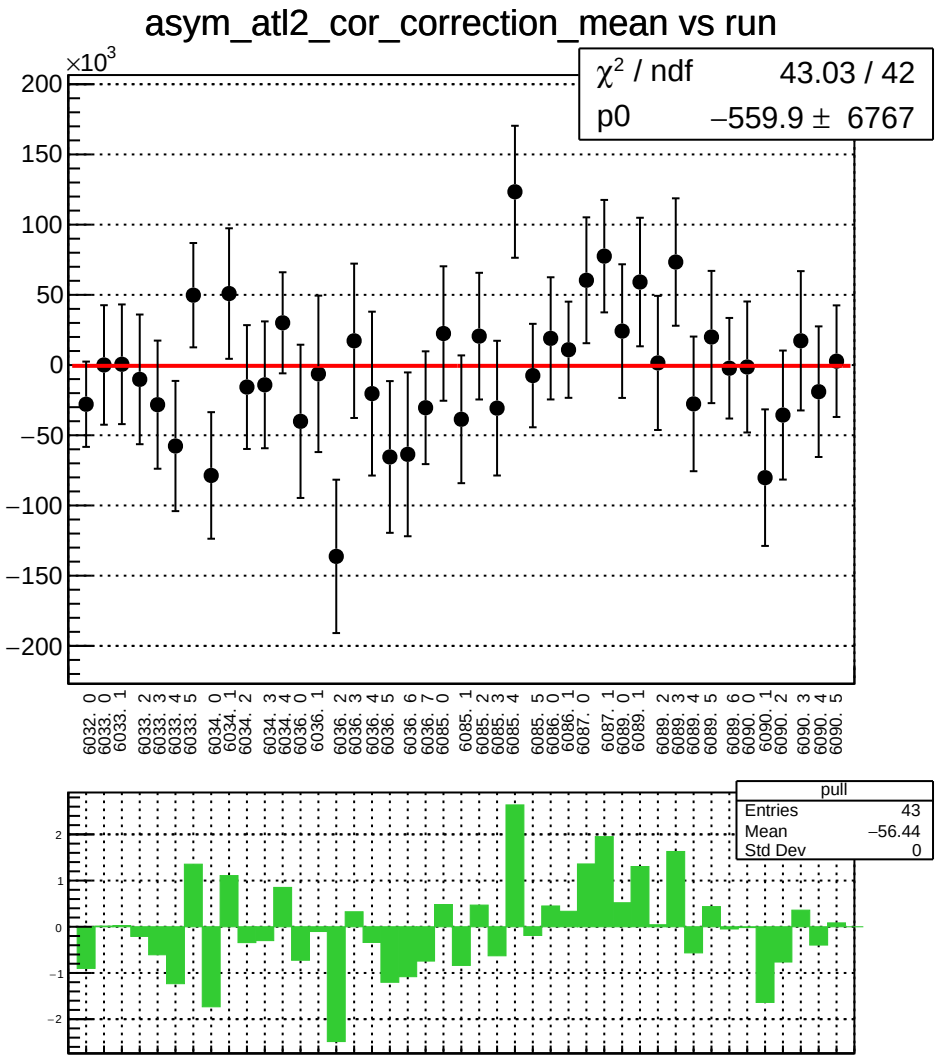

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 43.03 / 42
p0 −560 ± 6767
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0311
Std Dev 0.9998
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

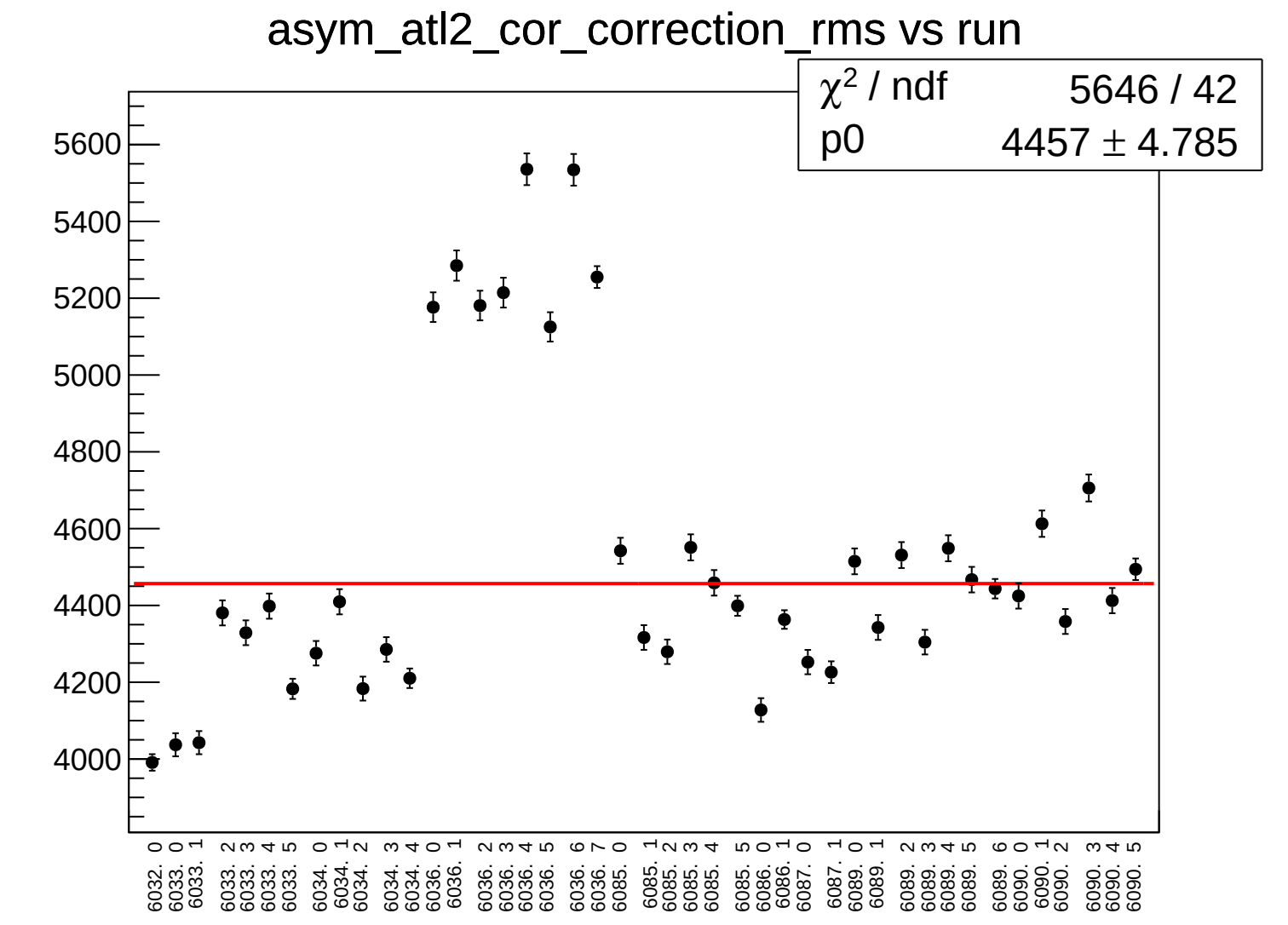

asym_atl2_reg_correction_rms vs run
χ² / ndf 5645 / 42
p0 4457 ± 4.785
5600
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

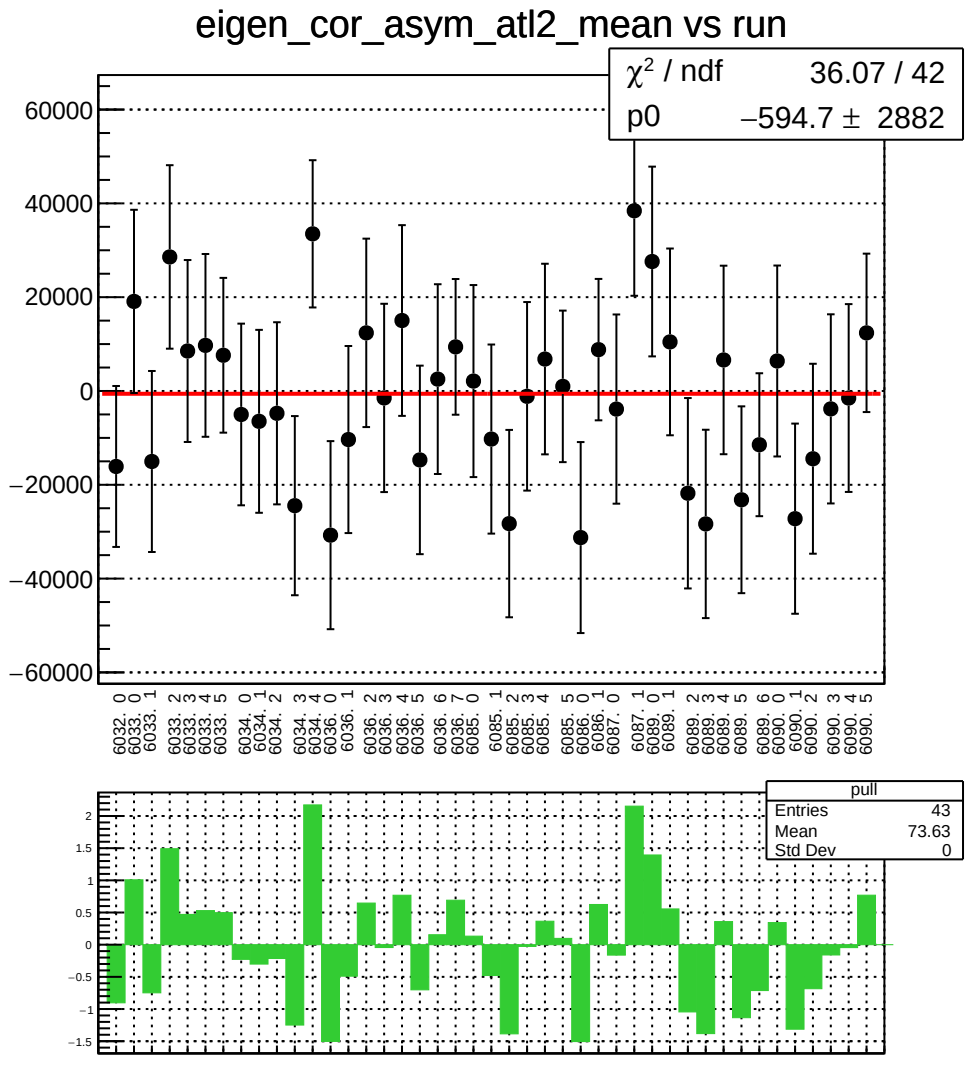

cor_asym_atl2_mean vs run
χ² / ndf 36.07 / 42
p0 −594.7 ± 2882
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 73.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

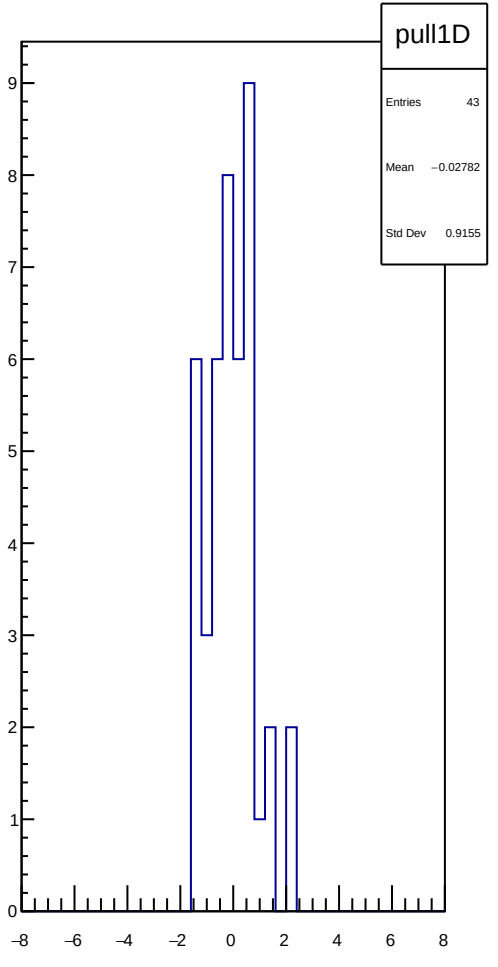

pull1D
Entries 43
Mean −0.02782
Std Dev 0.9155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

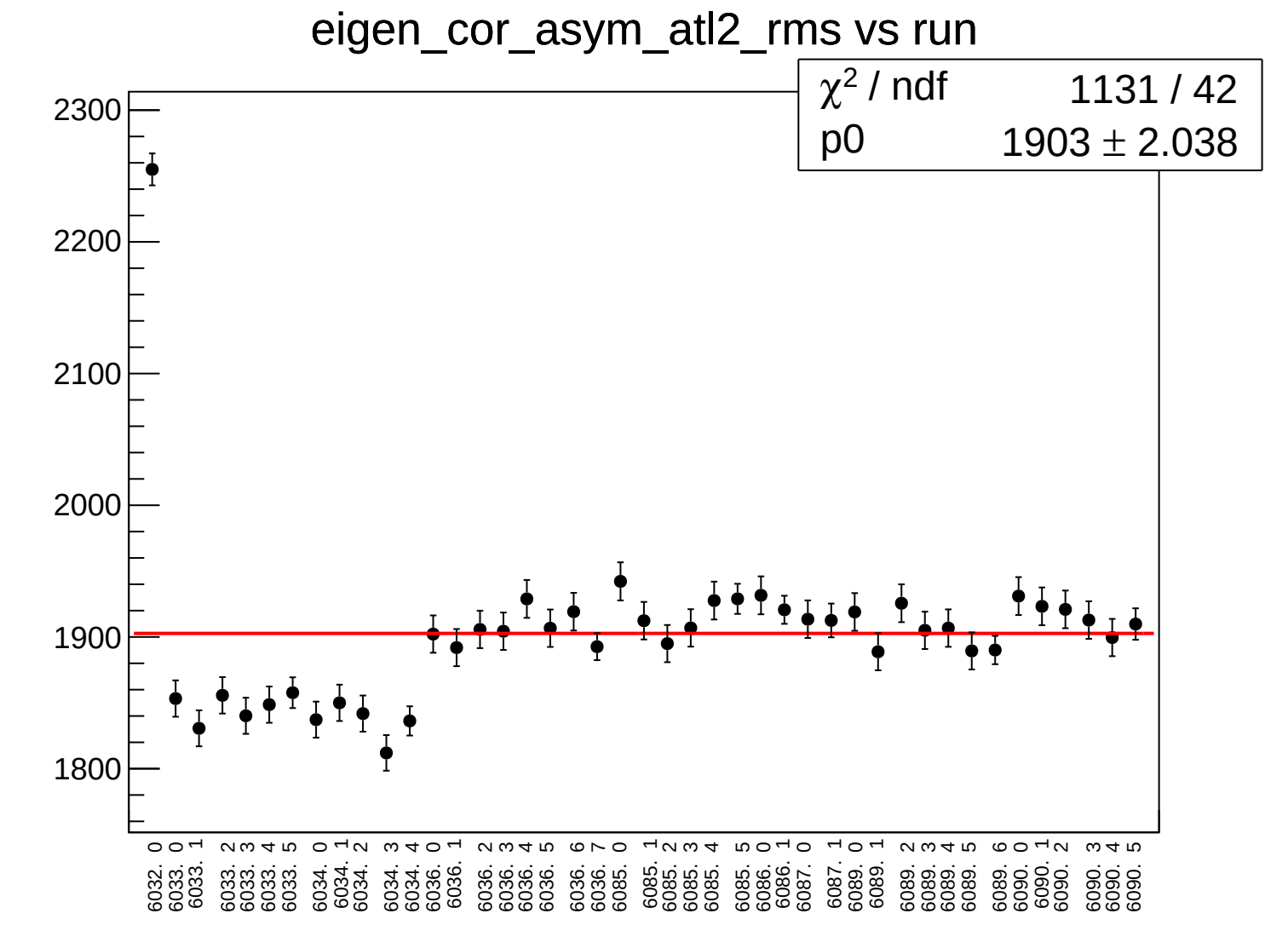

cor_asym_atl2_rms vs run
χ² / ndf 1131 / 42
p0 1903 ± 2.038
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

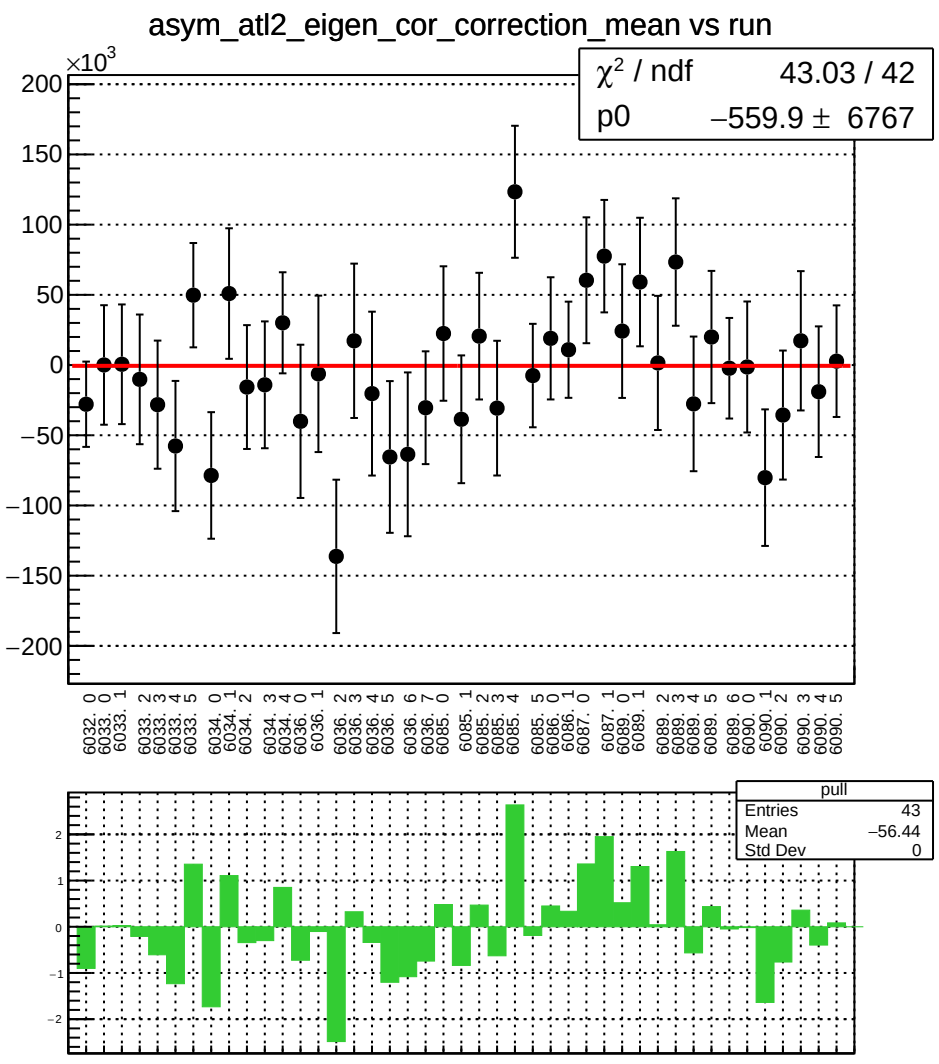

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 43.03 / 42
p0 −559.9 ± 6767
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03109
Std Dev 0.9998
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

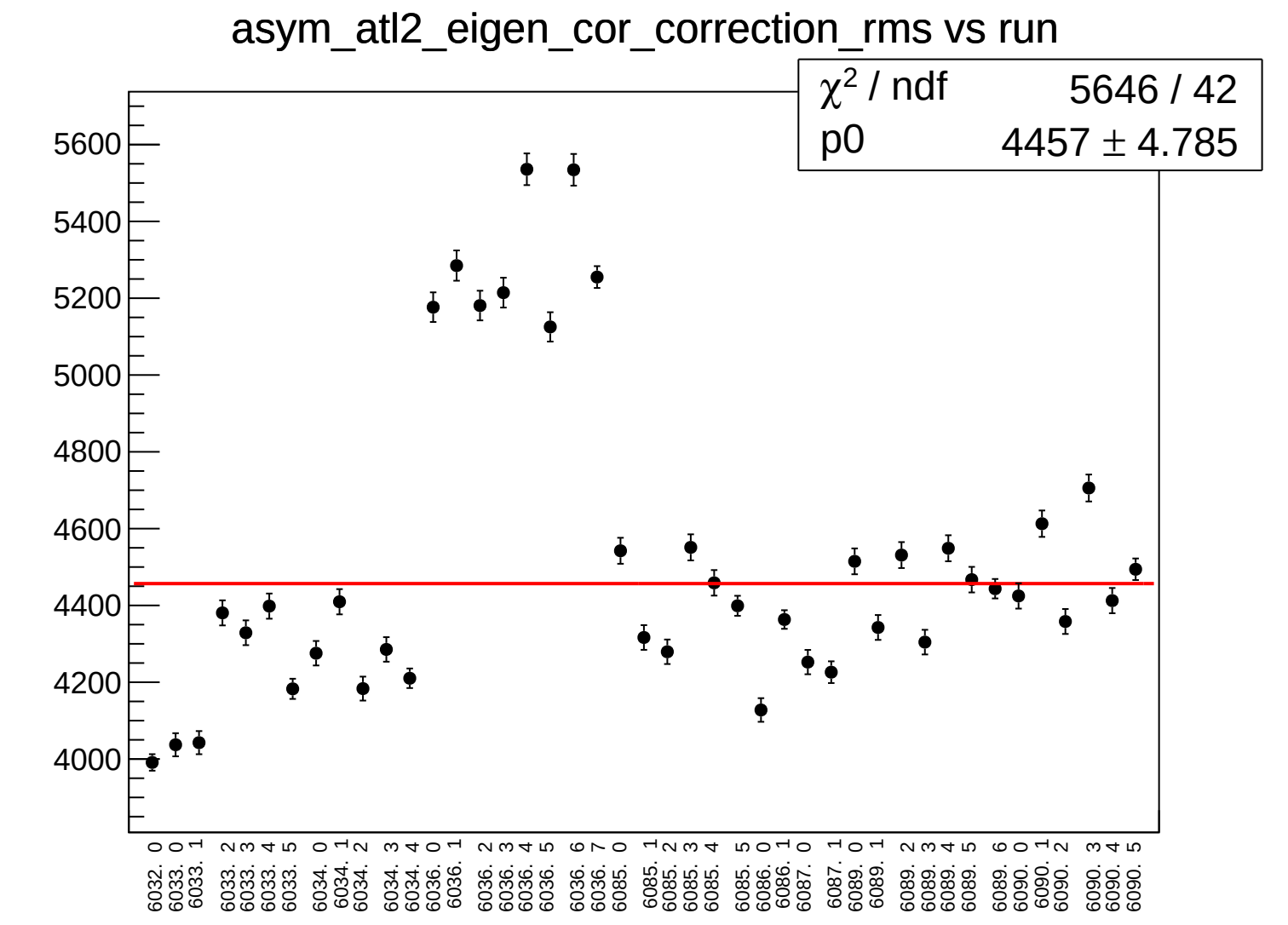

asym_atl2_cor_correction_rms vs run
χ² / ndf 5646 / 42
p0 4457 ± 4.785
5600
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_atl2_mean vs run
χ² / ndf 36.07 / 42
p0 −594.7 ± 2882
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 73.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean −0.02782
Std Dev 0.9155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl2_rms vs run
χ² / ndf 1131 / 42
p0 1903 ± 2.038
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 43.03 / 42
p0 −559.9 ± 6767
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03109
Std Dev 0.9998
9
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 5646 / 42
p0 4457 ± 4.785
5600
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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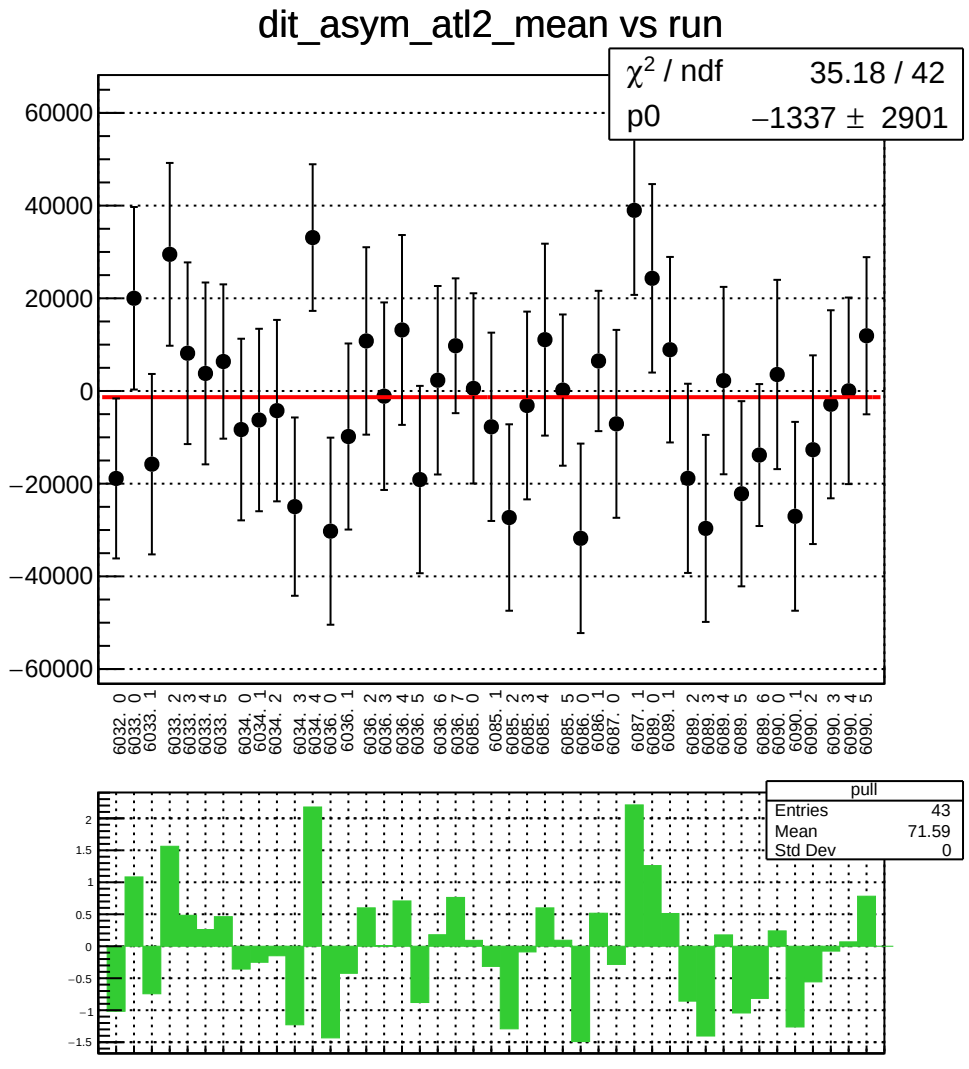
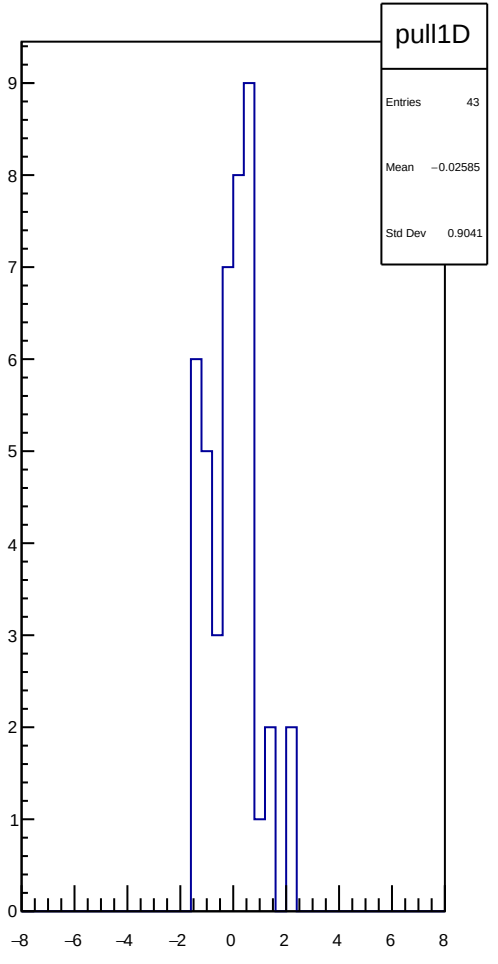
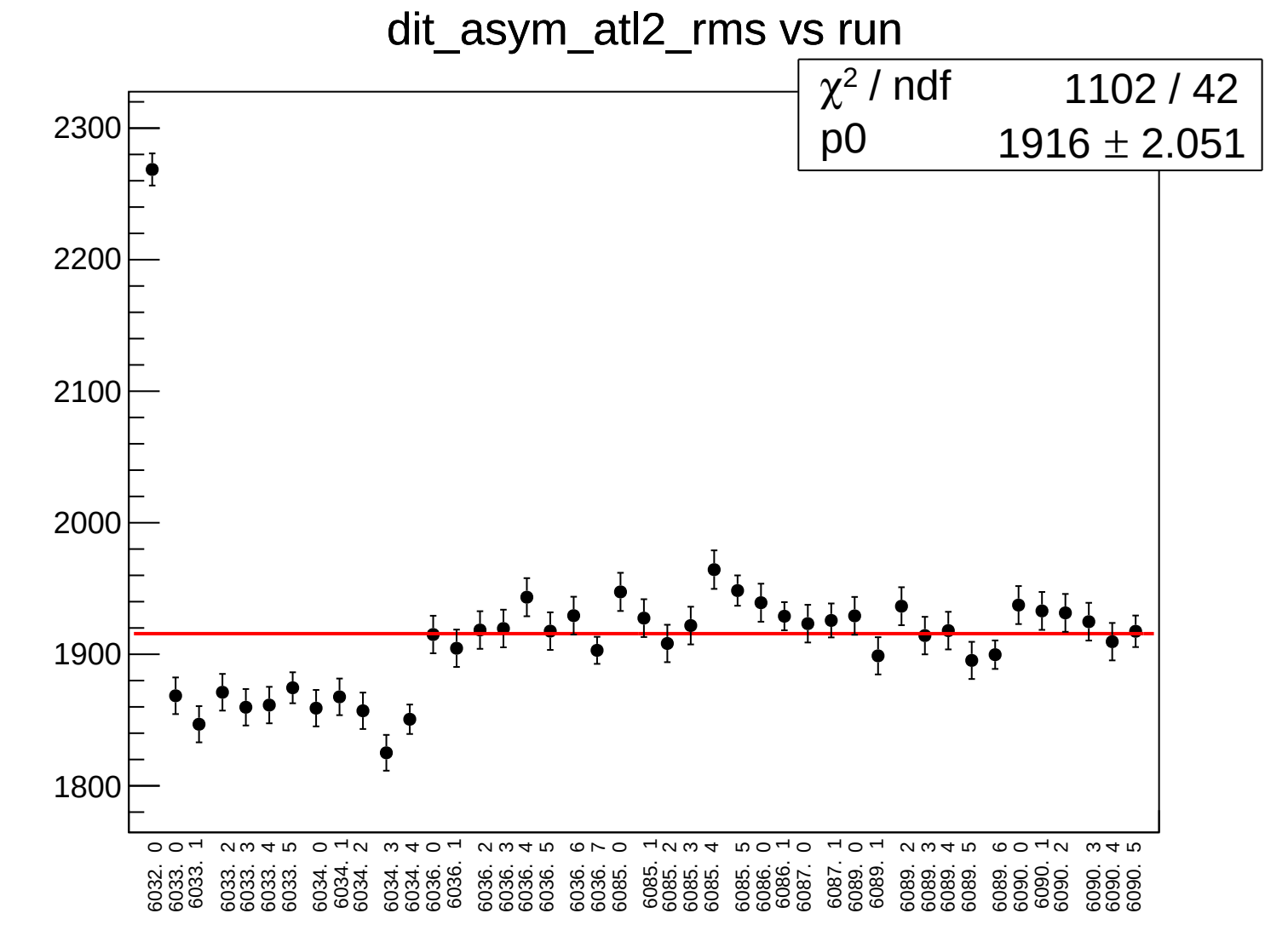
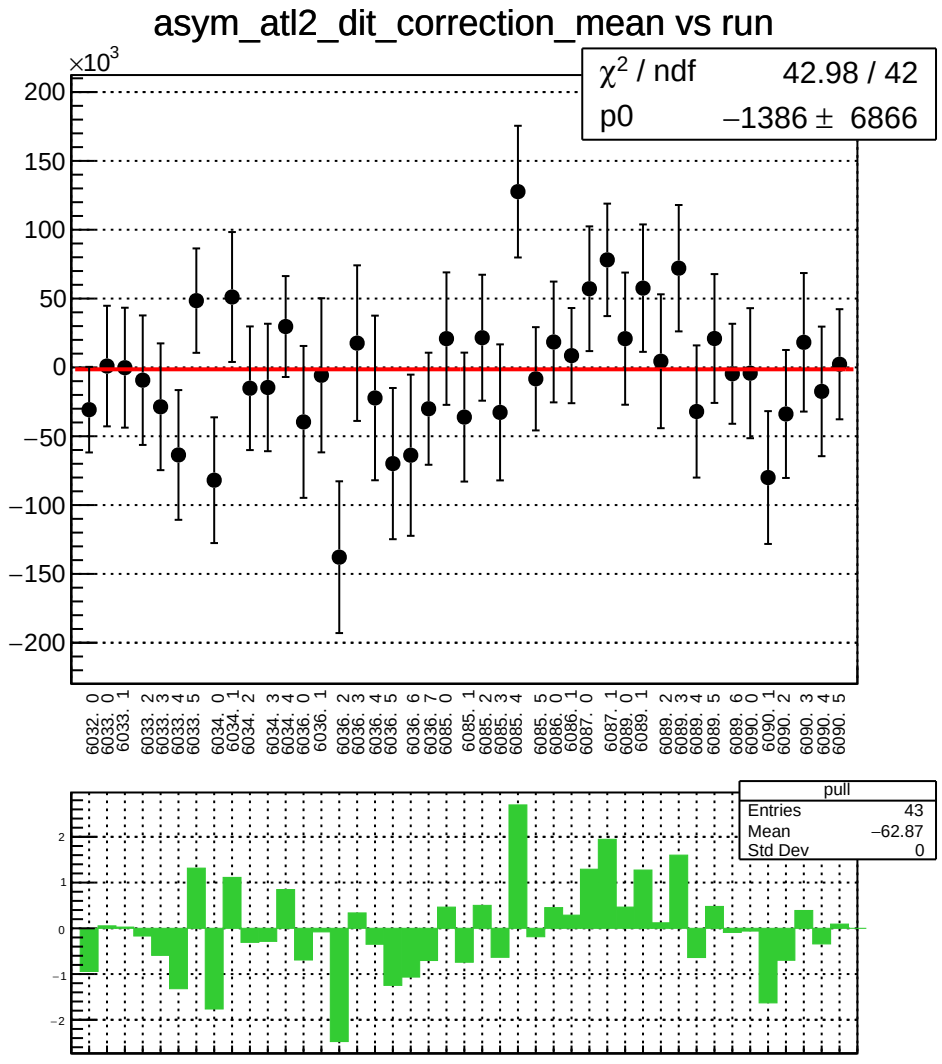
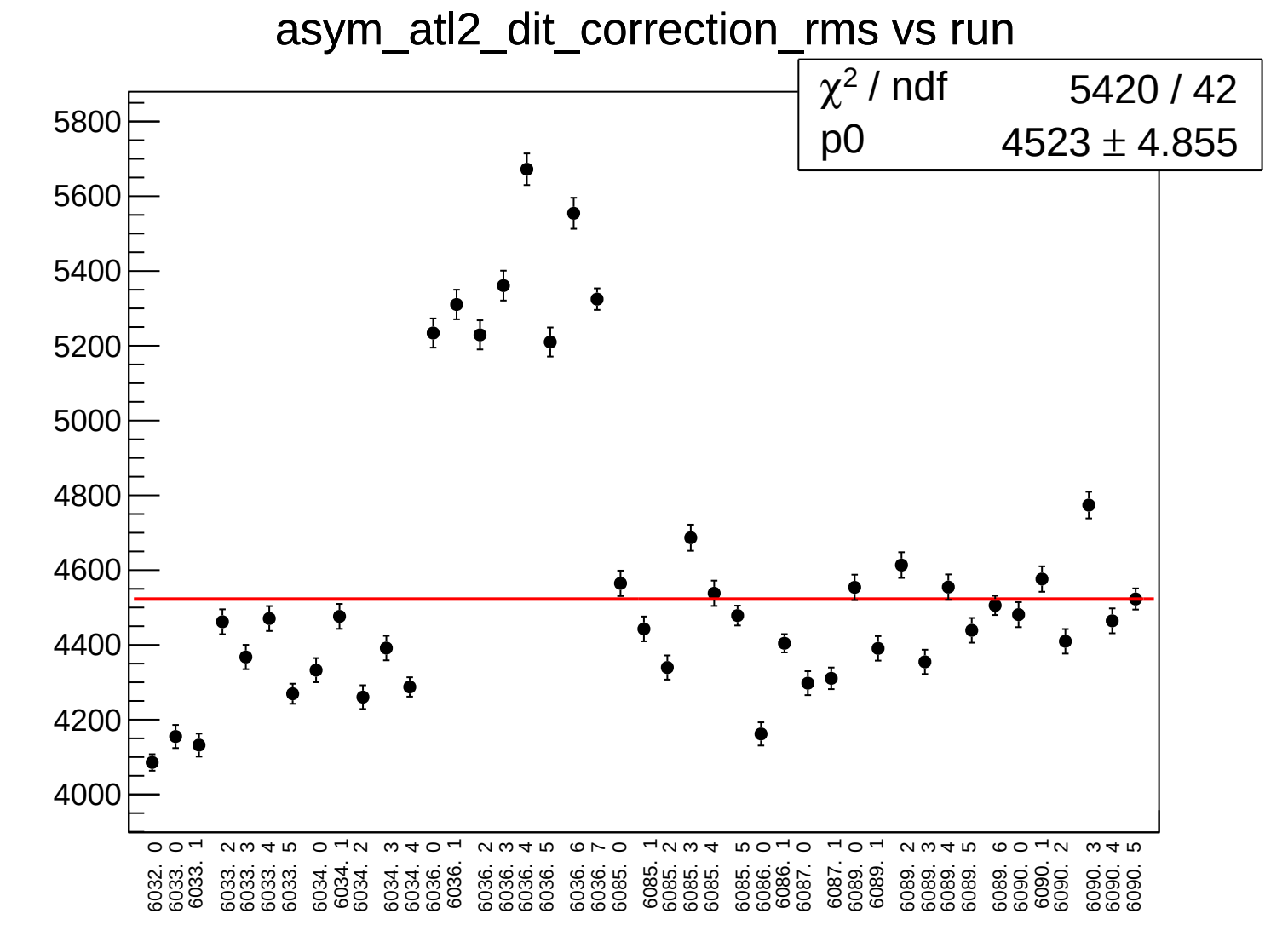
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_atl2_mean vs run
χ² / ndf 35.18 / 42
p0 −1337 ± 2901
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 71.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean −0.02585
Std Dev 0.9041
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 1102 / 42
p0 1916 ± 2.051
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 42.98 / 42
p0 −1386 ± 6866
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −62.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02901
Std Dev 0.9994
9
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 5420 / 42
p0 4523 ± 4.855
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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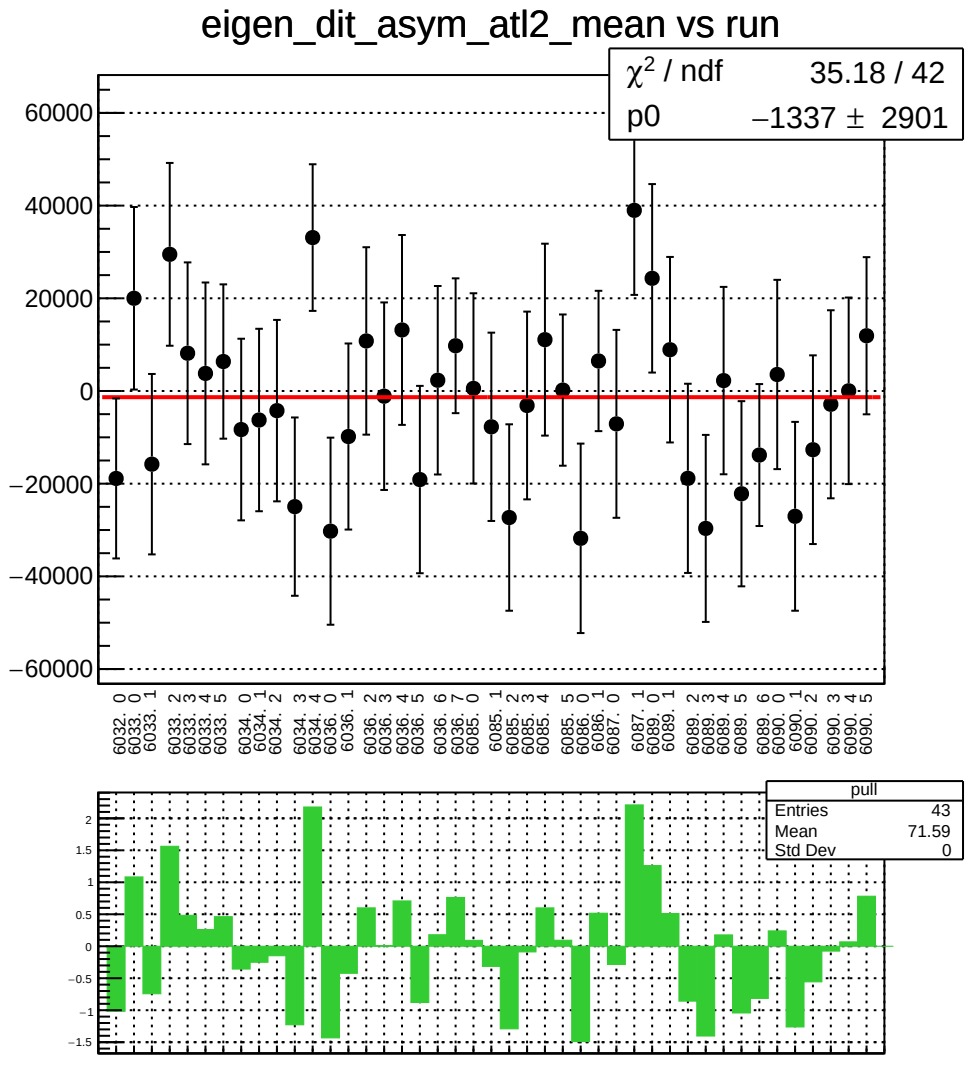
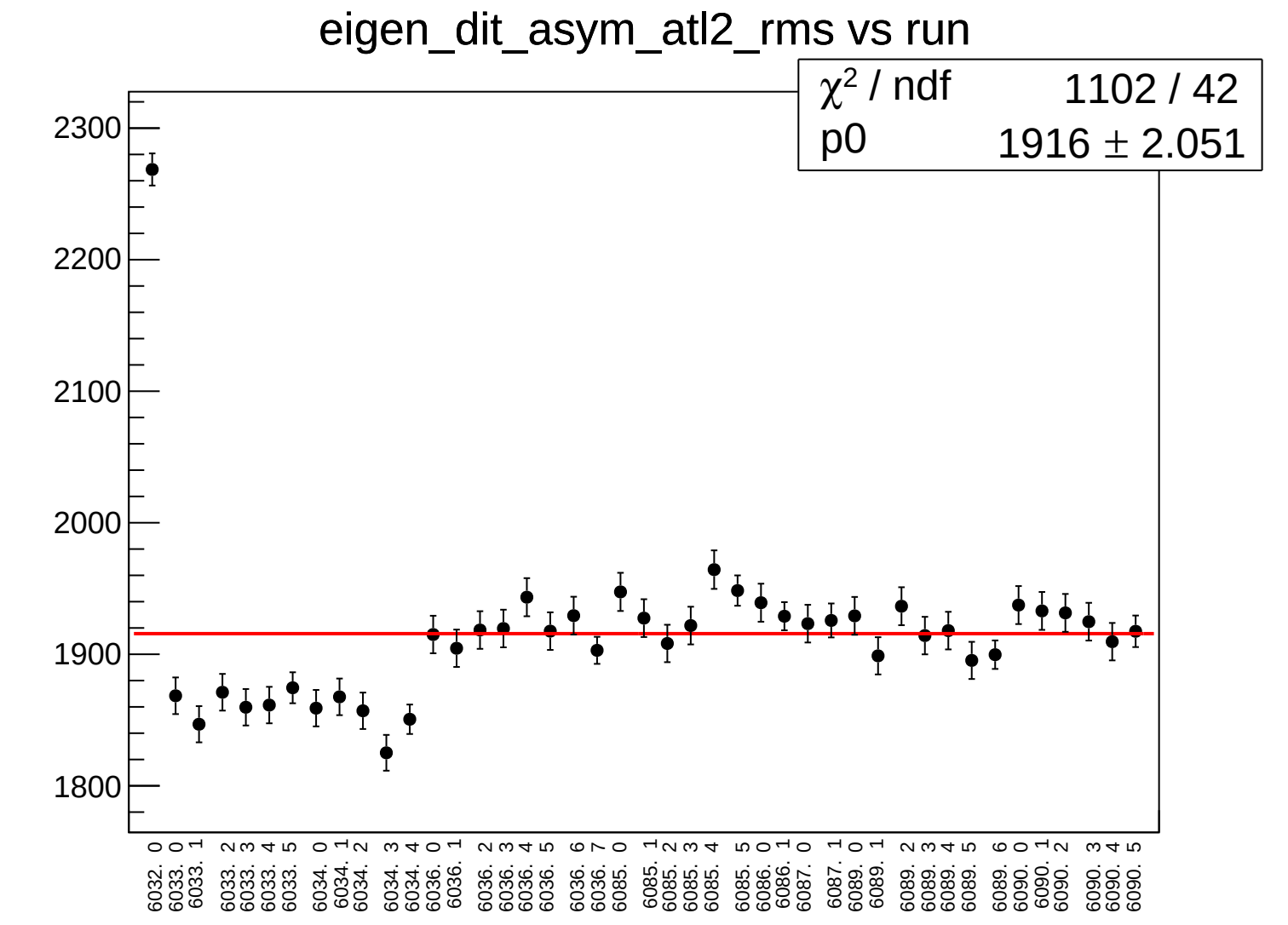
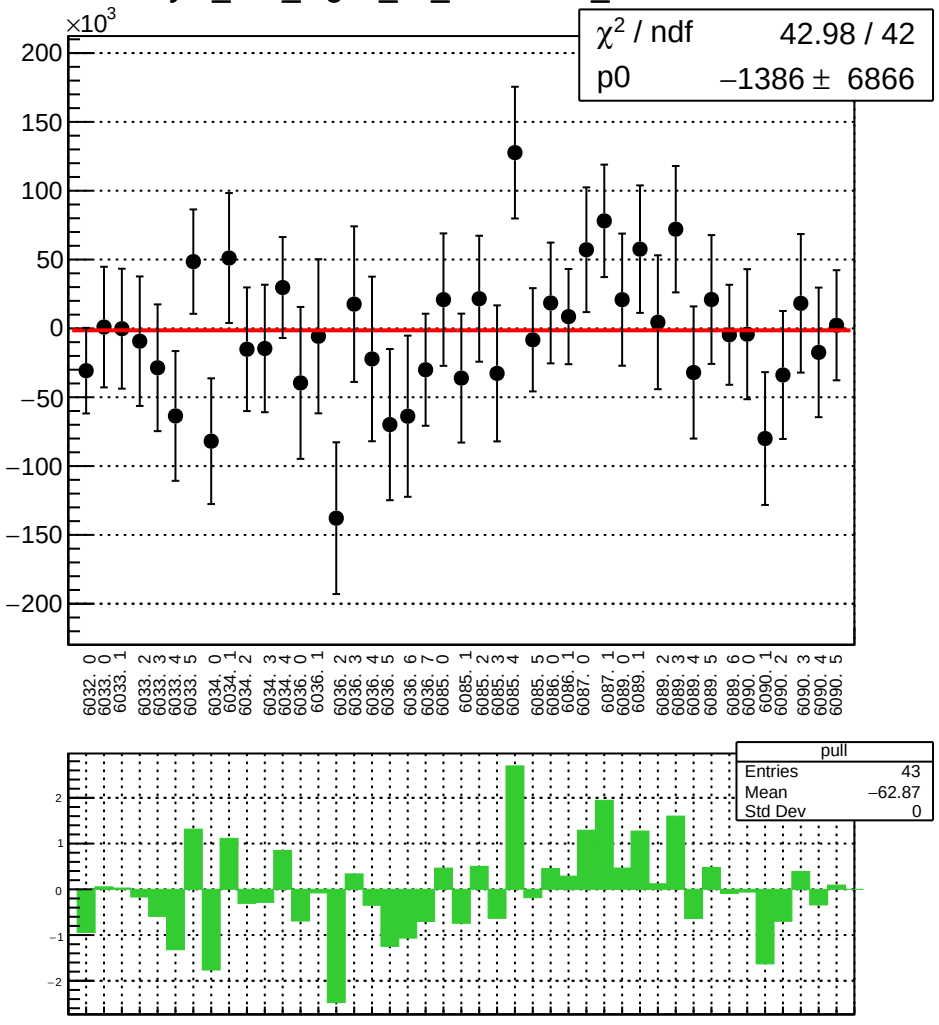
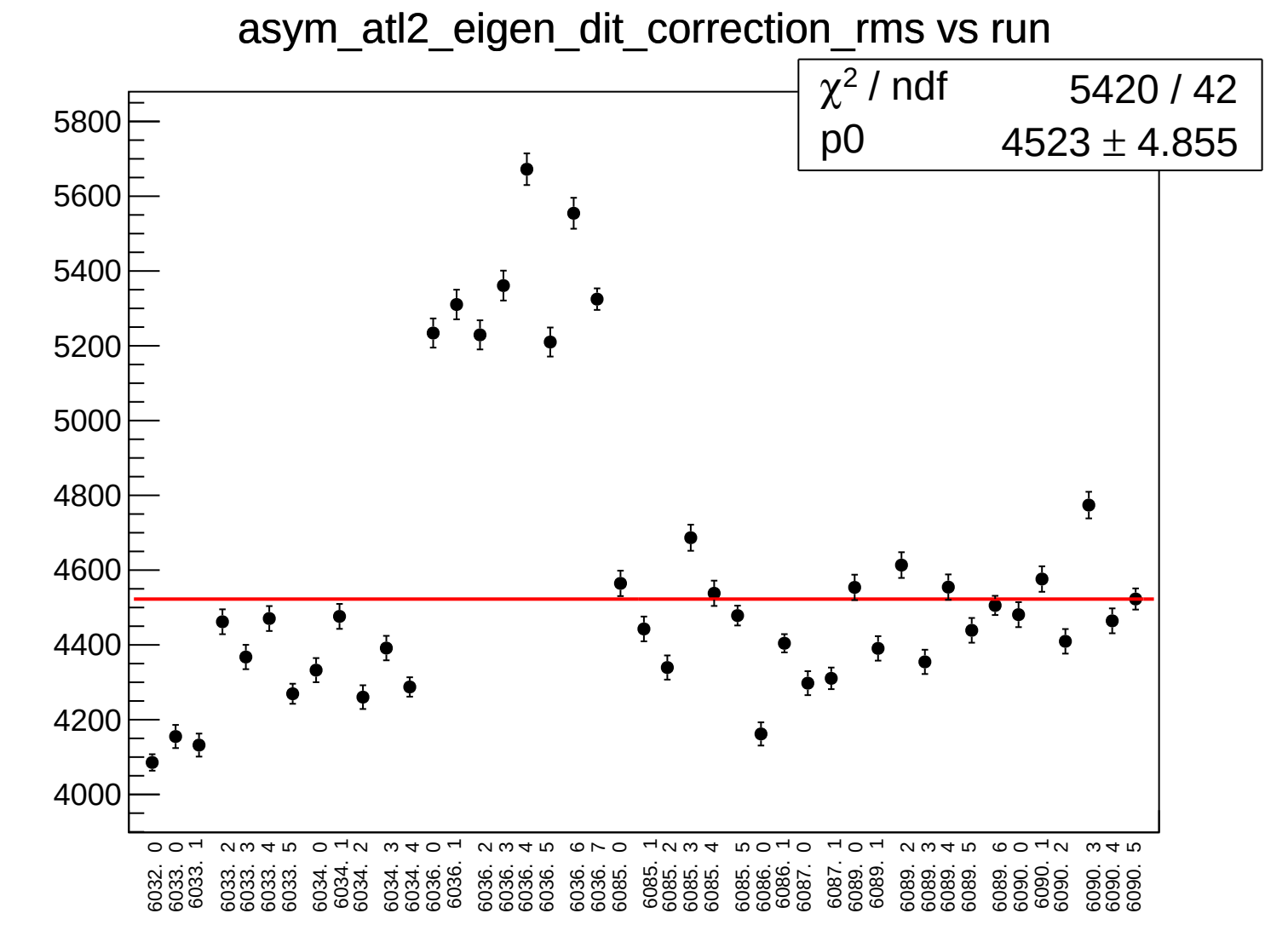
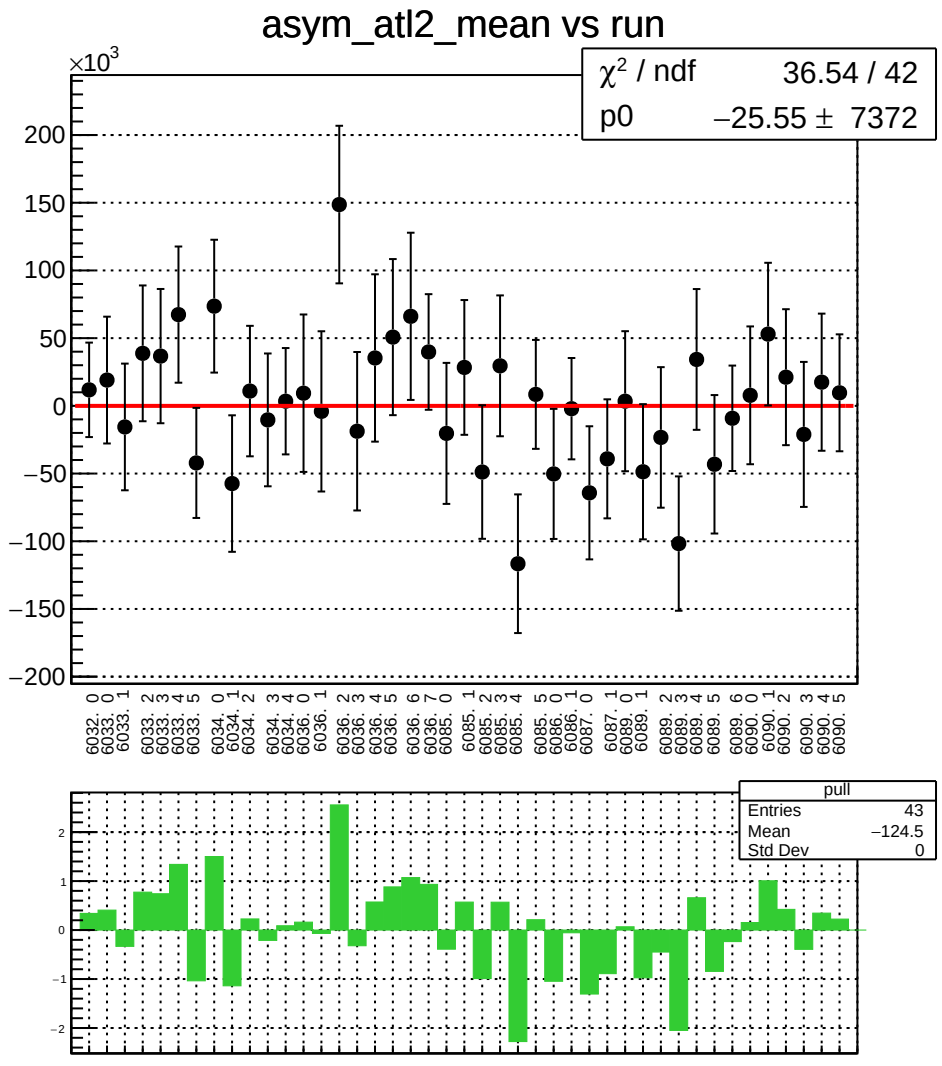
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

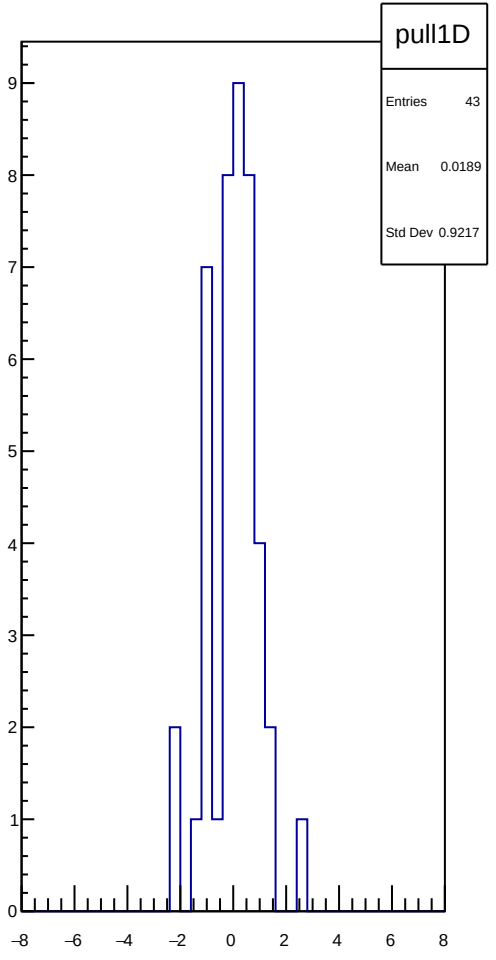

eigen_dit_asym_atl2_mean vs run
χ² / ndf 35.18 / 42
p0 −1337 ± 2901
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 71.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02585
Std Dev 0.9041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

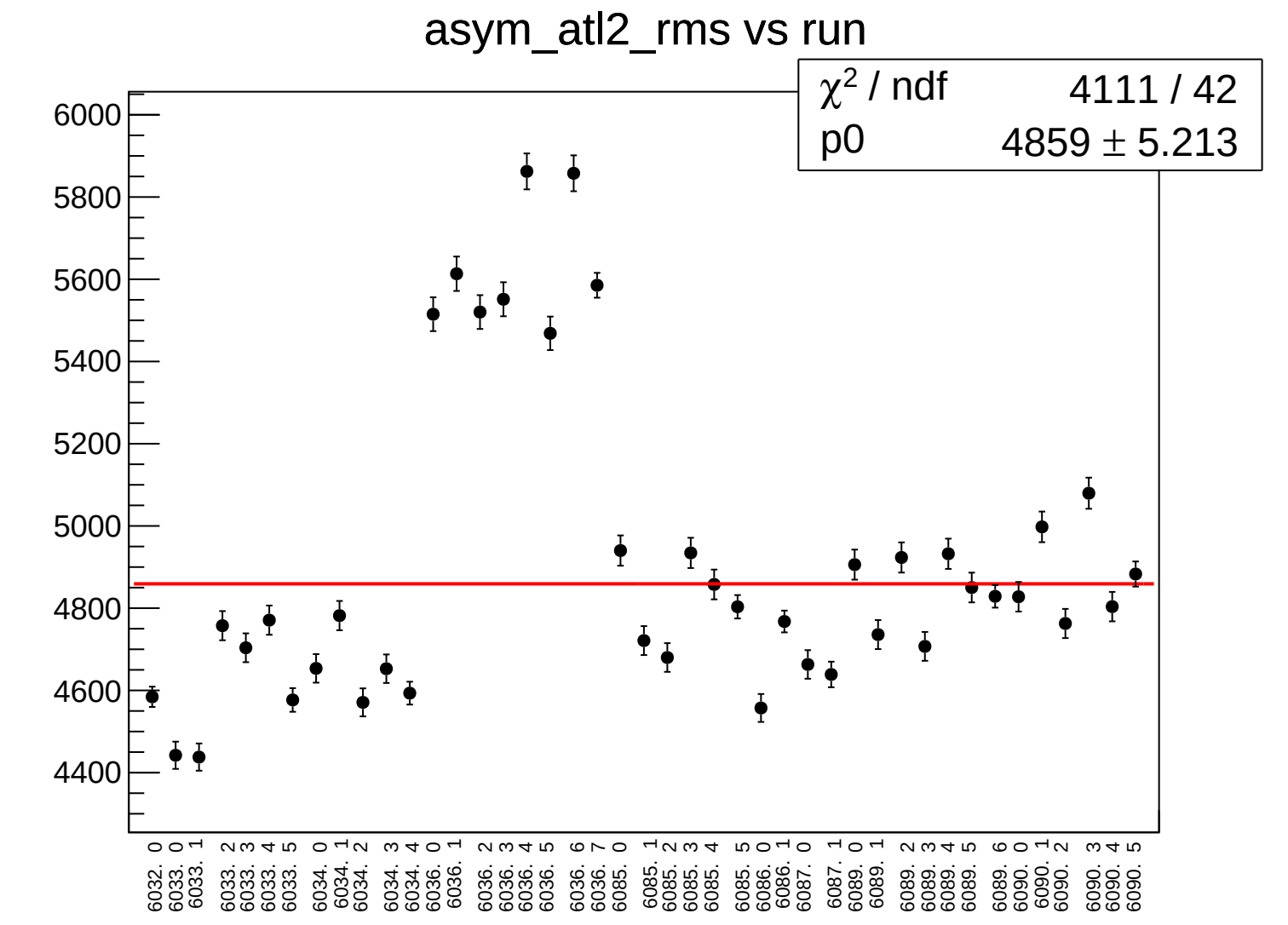

eigen_dit_asym_atl2_rms vs run
χ² / ndf 1102 / 42
p0 1916 ± 2.051
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

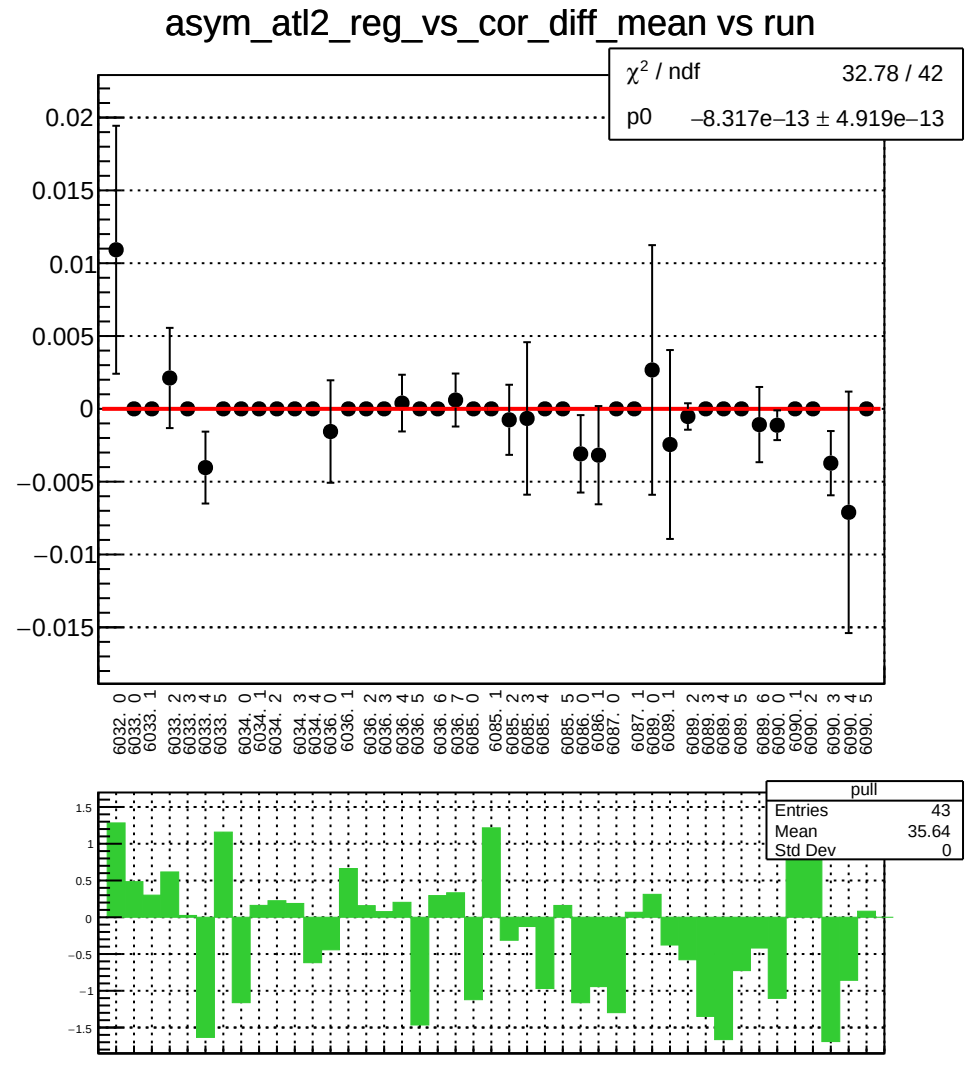

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42.98 / 42
p0 −1386 ± 6866
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −62.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02901
Std Dev 0.9993
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

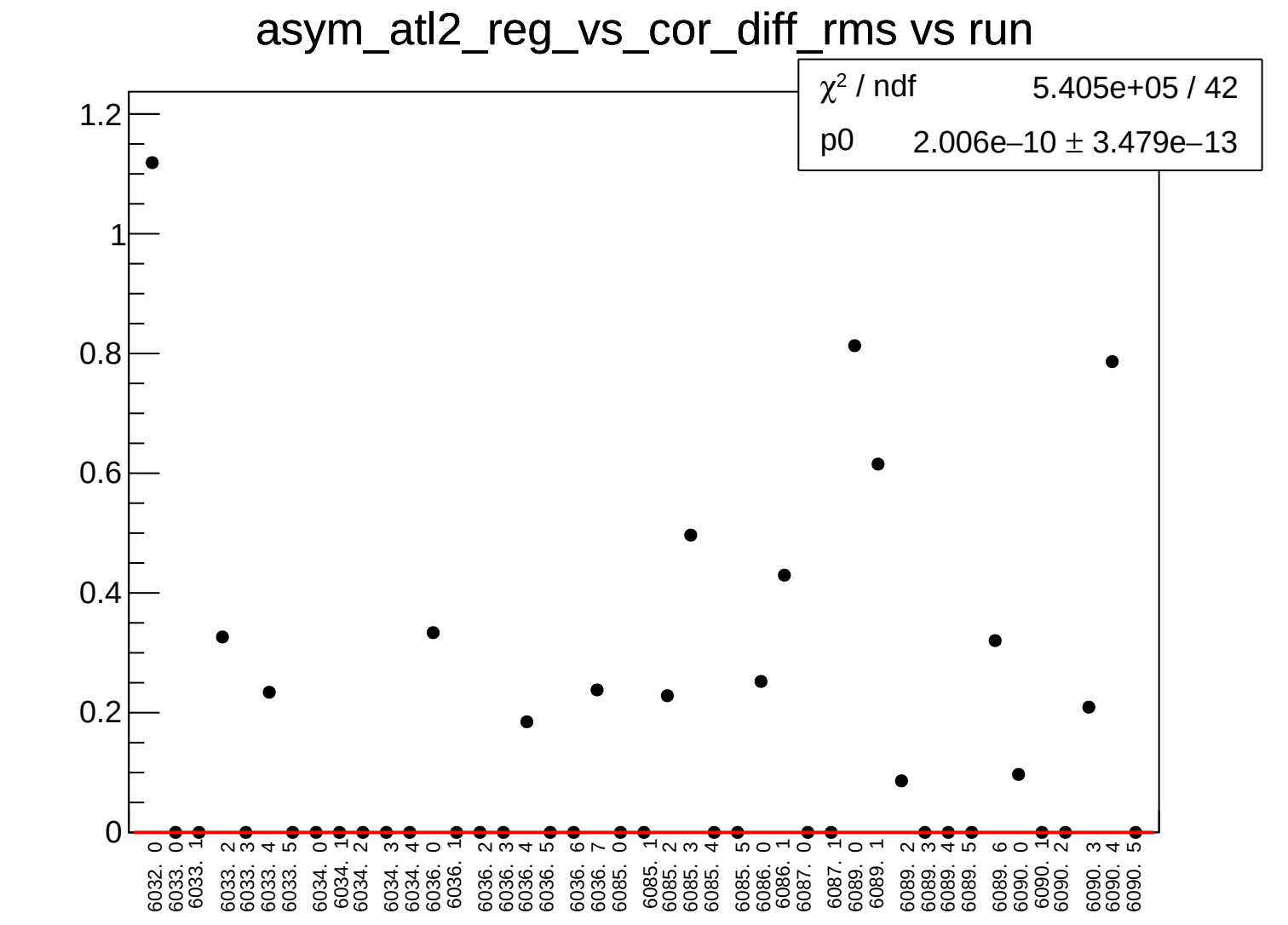

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5420 / 42
p0 4523 ± 4.855
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

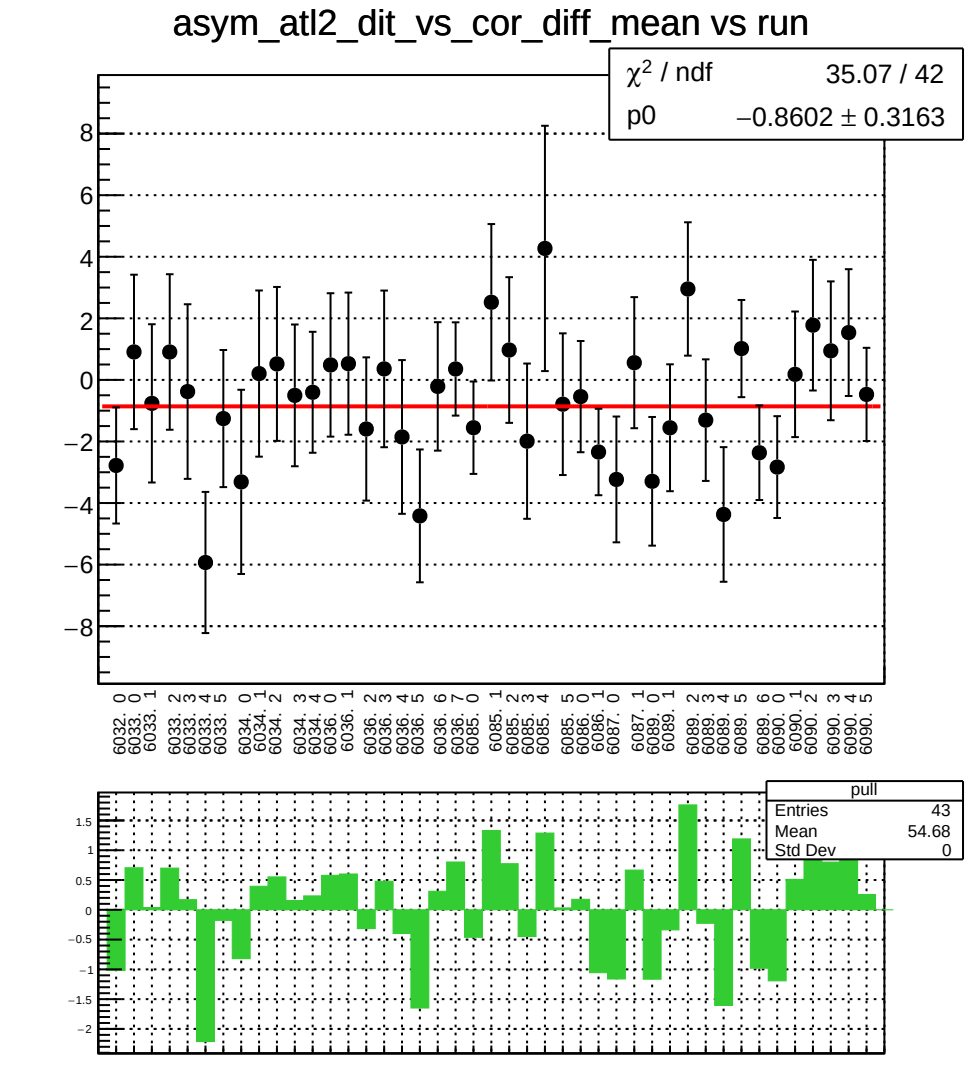

asym_atl2_mean vs run
×10^3
χ² / ndf 36.54 / 42
p0 −25.55 ± 7372
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −124.5
Std Dev 0
2
1
0
−1
−2

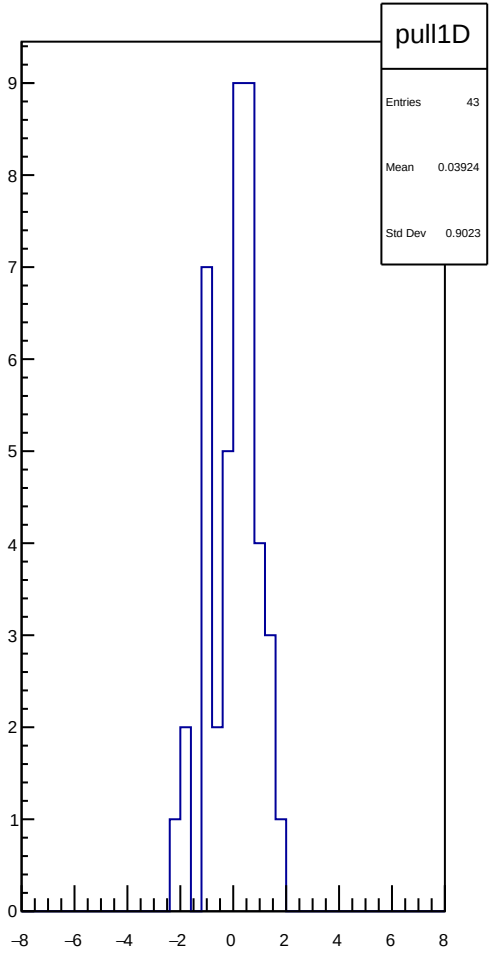

pull1D
Entries 43
Mean 0.0189
Std Dev 0.9217
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

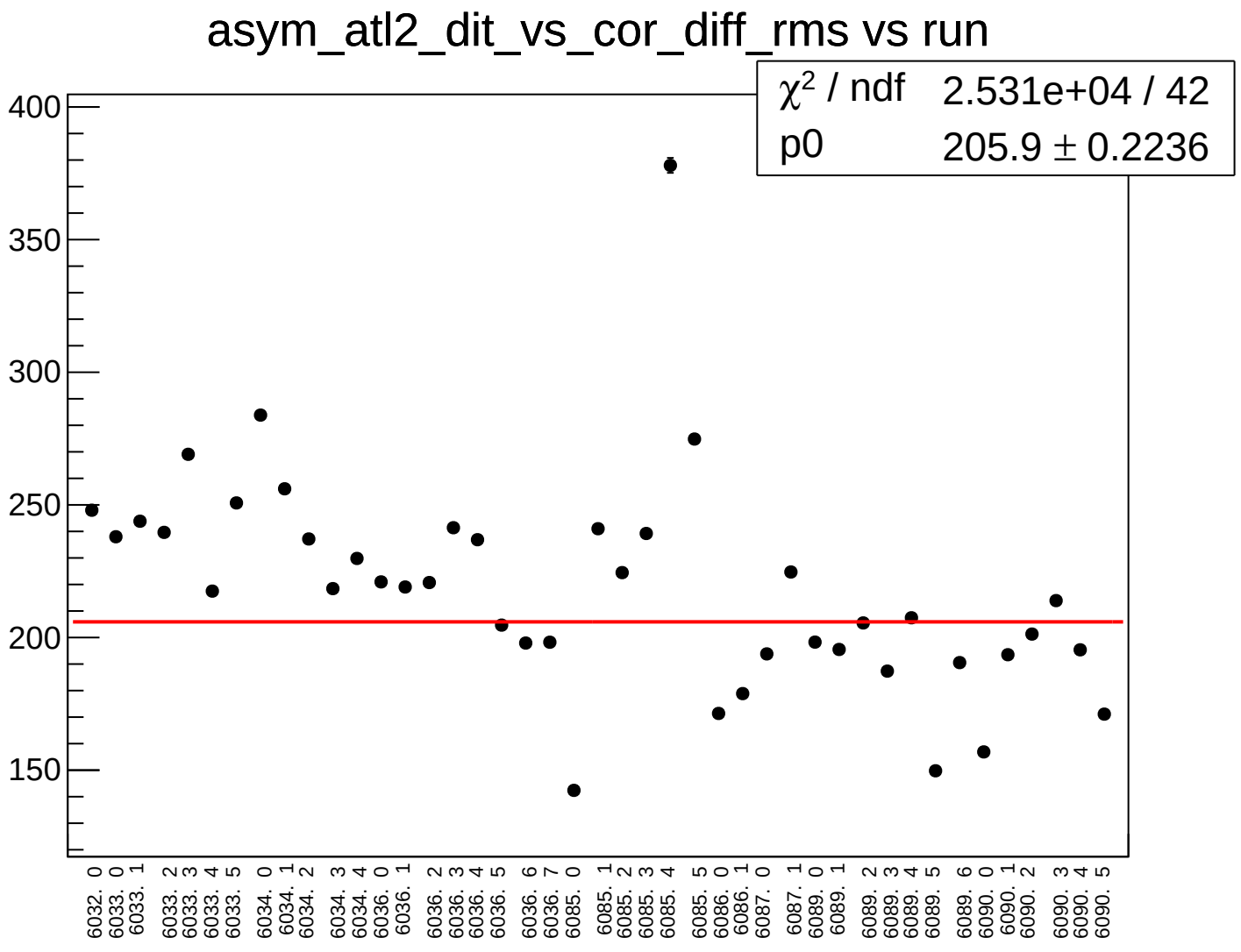

asym_atl2_rms vs run
χ² / ndf 4111 / 42
p0 4859 ± 5.213
6000
5800
5600
5400
5200
5000
4800
4600
4400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

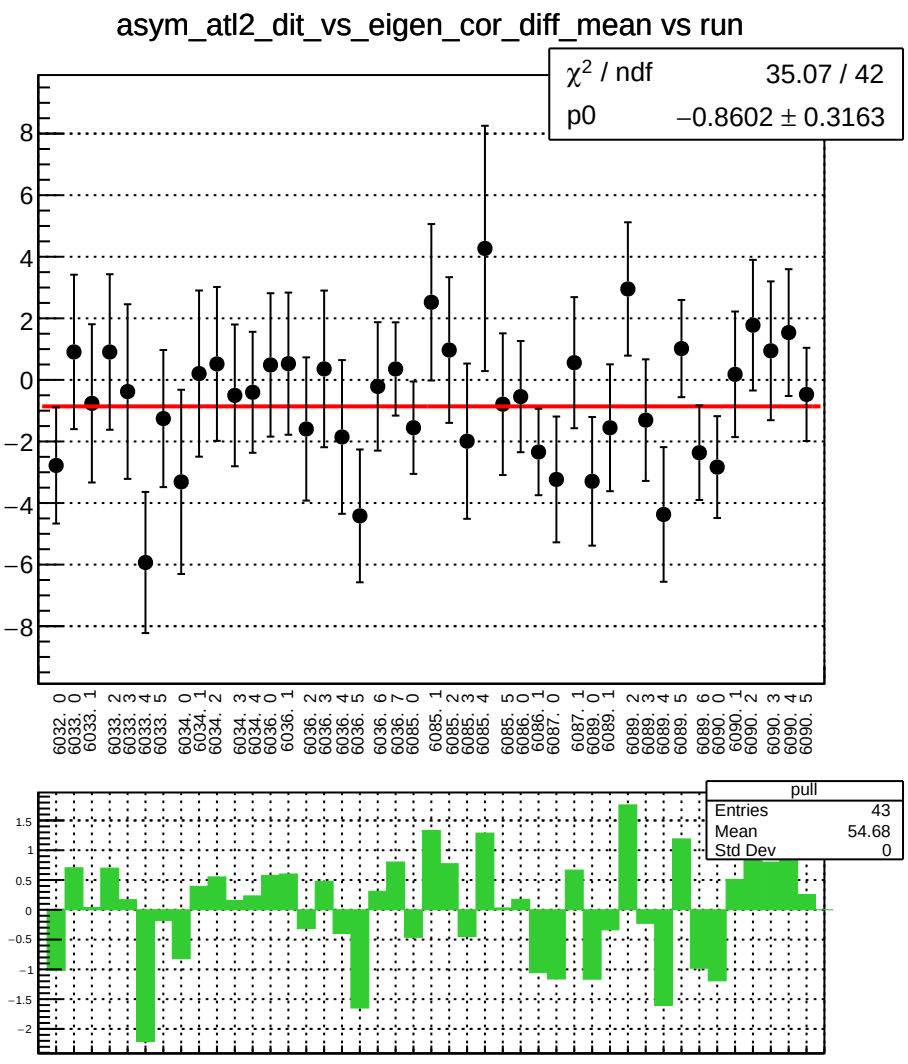

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 32.78 / 42
p0 −8.317e−13 ± 4.919e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 35.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.2232
Std Dev 0.8442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

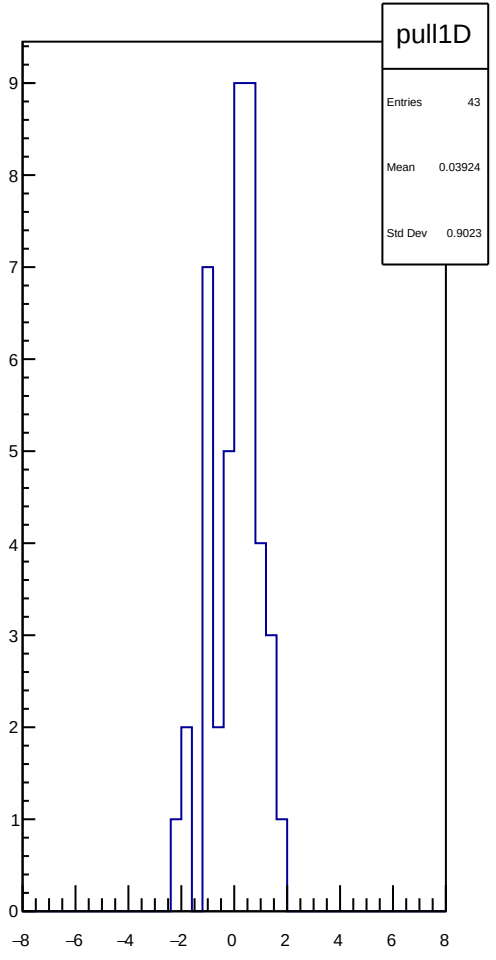

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.405e+05 / 42
p0 2.006e−10 ± 3.479e−13
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

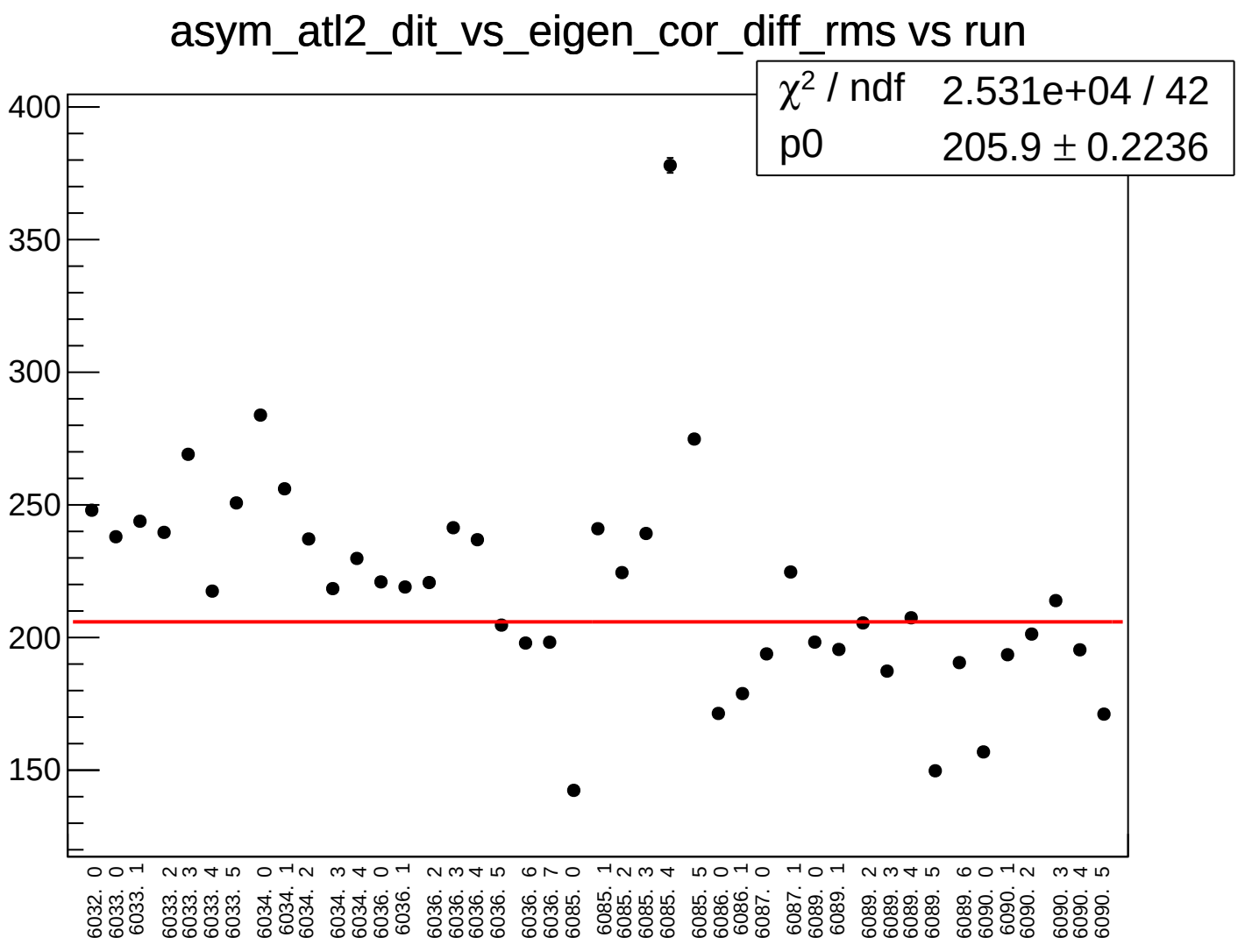

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 35.07 / 42
p0 −0.8602 ± 0.3163
8
6
4
2
0
−2
−4
−6
−8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 54.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

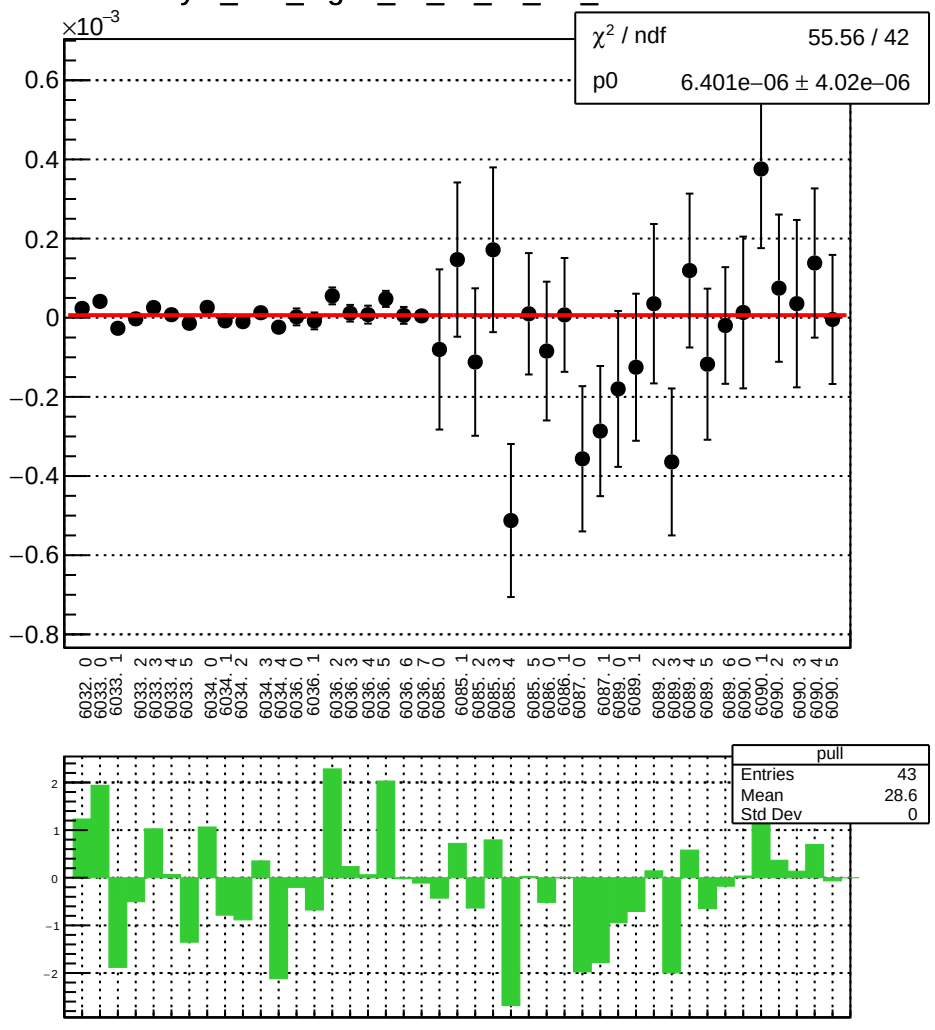

pull1D
Entries 43
Mean 0.03924
Std Dev 0.9023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

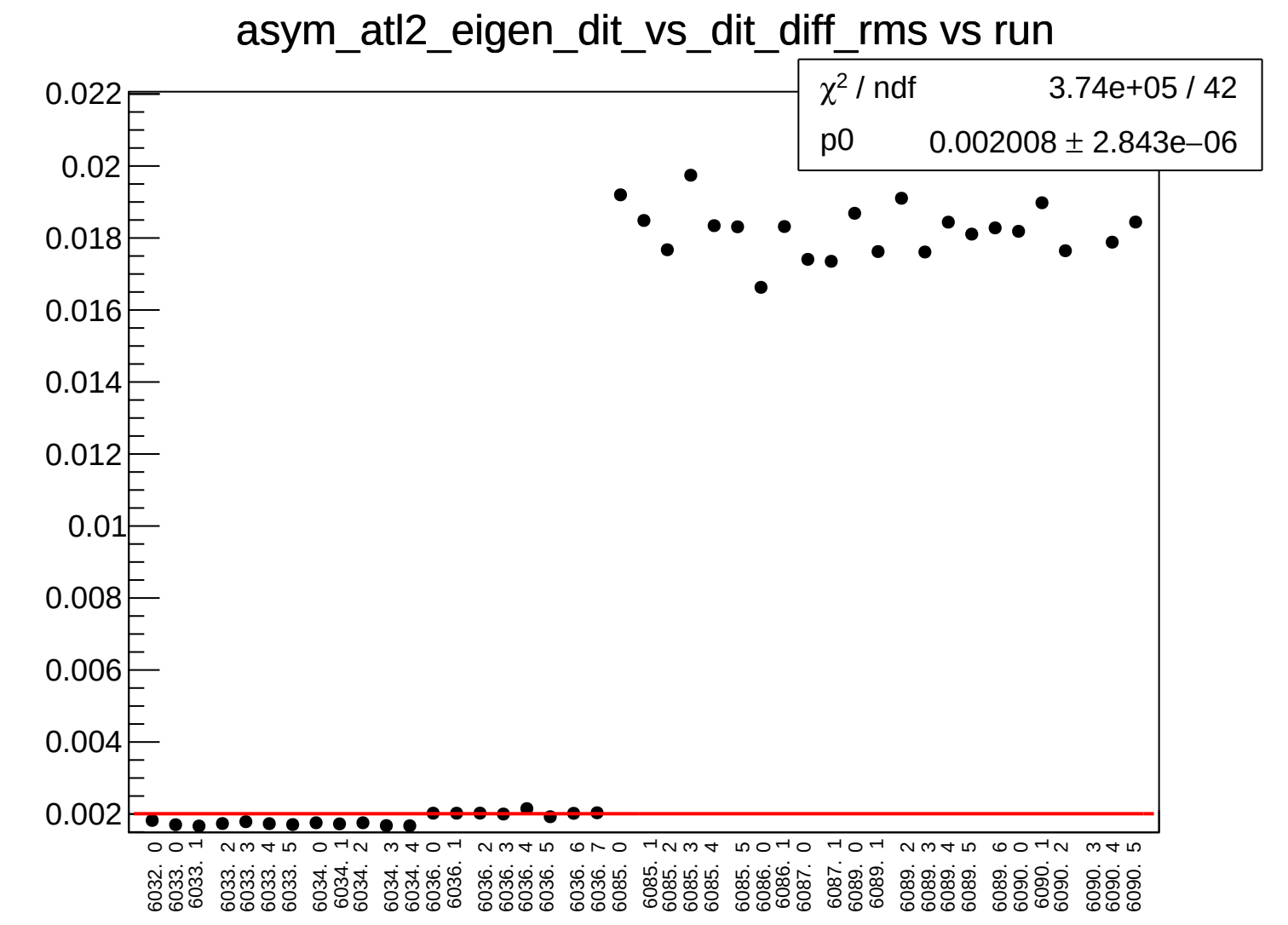

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.531e+04 / 42
p0 205.9 ± 0.2236
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

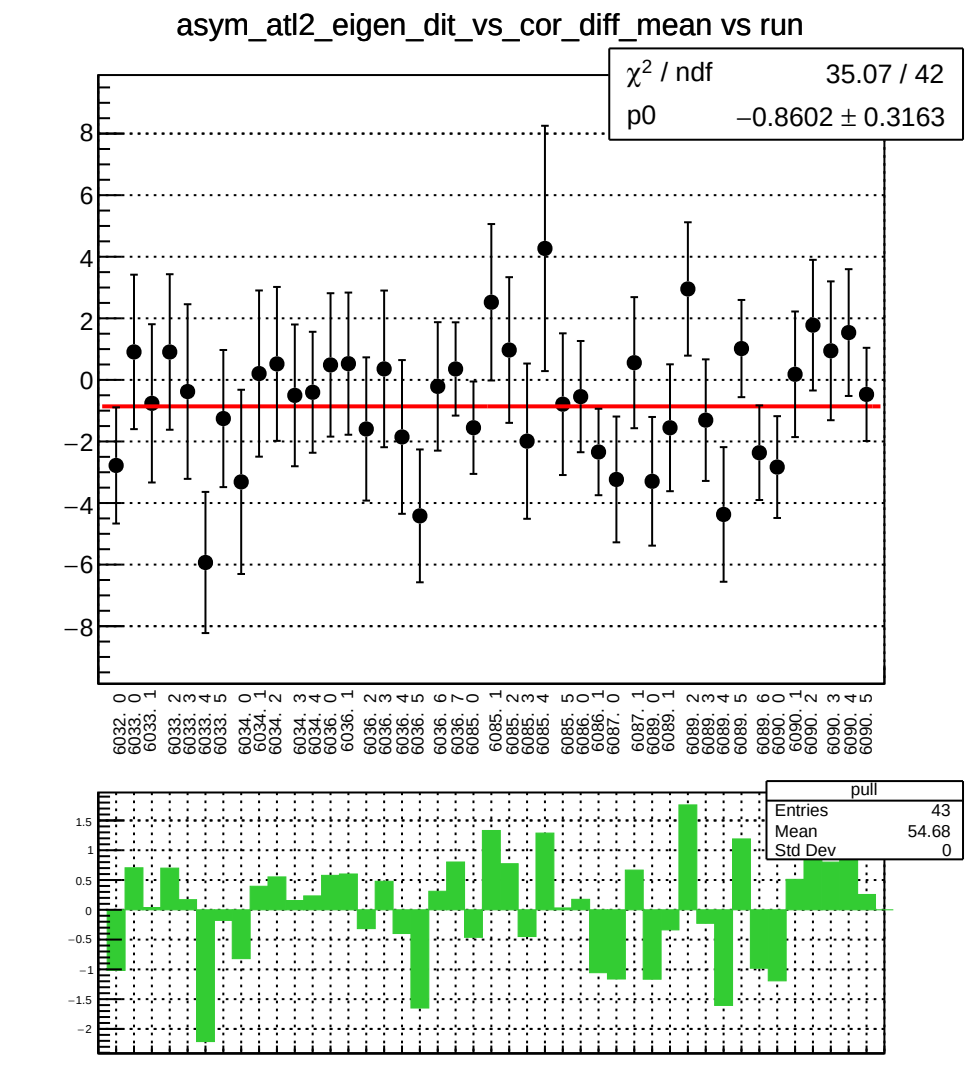

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.07 / 42
p0 −0.8602 ± 0.3163
8
6
4
2
0
−2
−4
−6
−8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 54.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

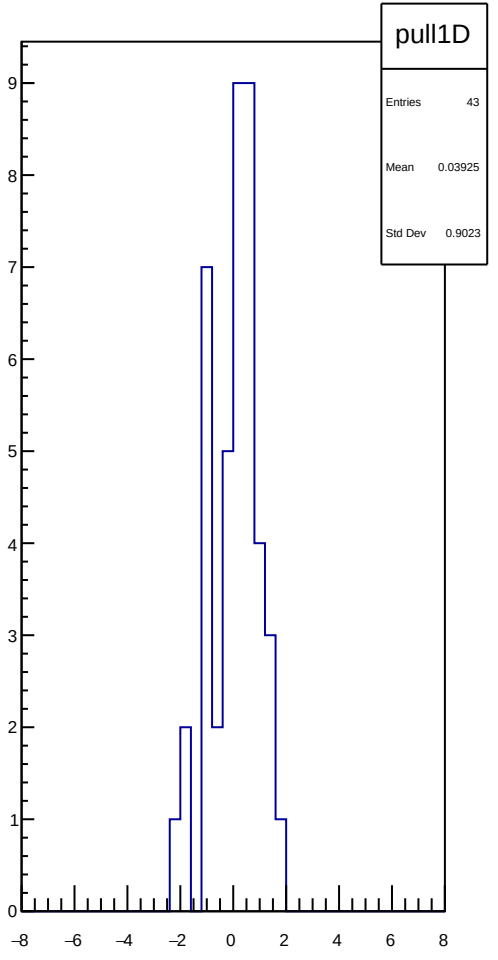

pull1D
Entries 43
Mean 0.03924
Std Dev 0.9023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

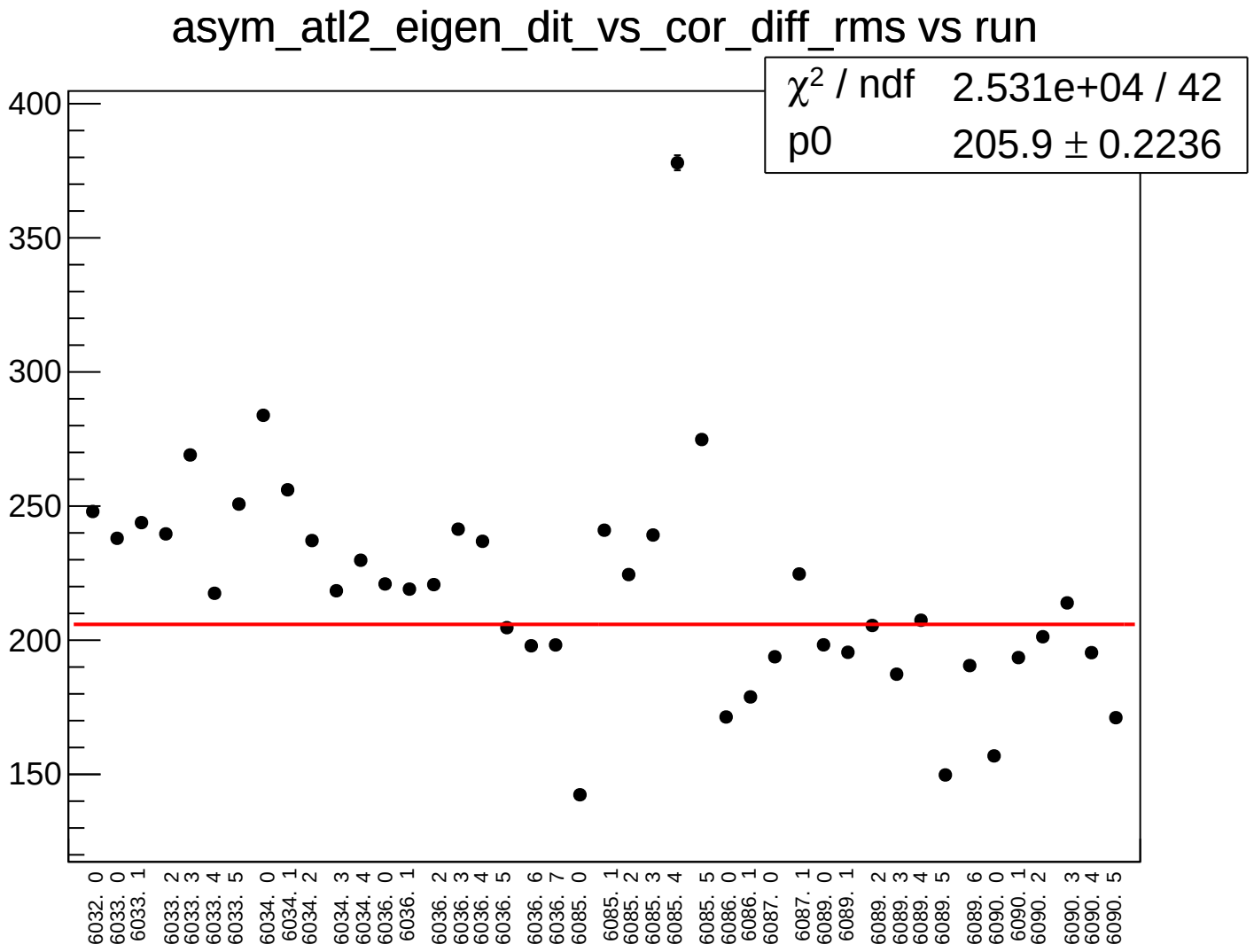

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.531e+04 / 42
p0 205.9 ± 0.2236
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

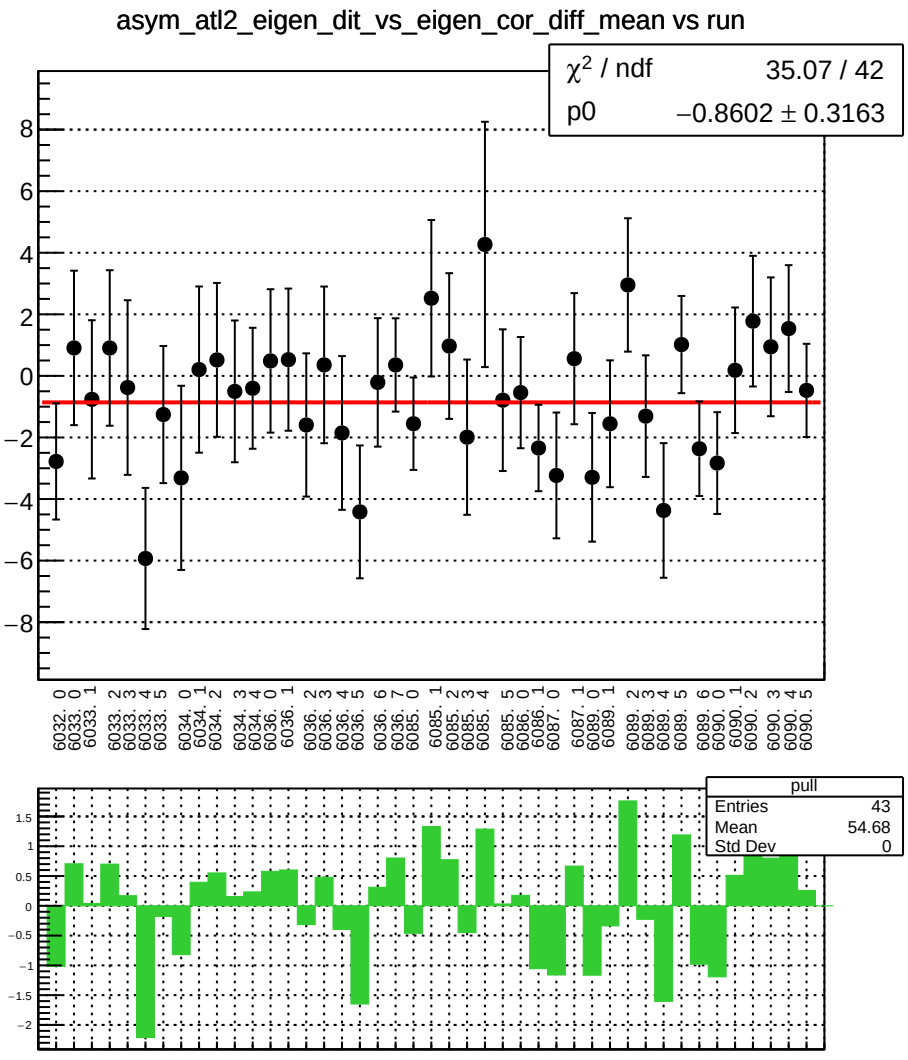

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.56 / 42
p0 6.401e−06 ± 4.02e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 28.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1269
Std Dev 1.13
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

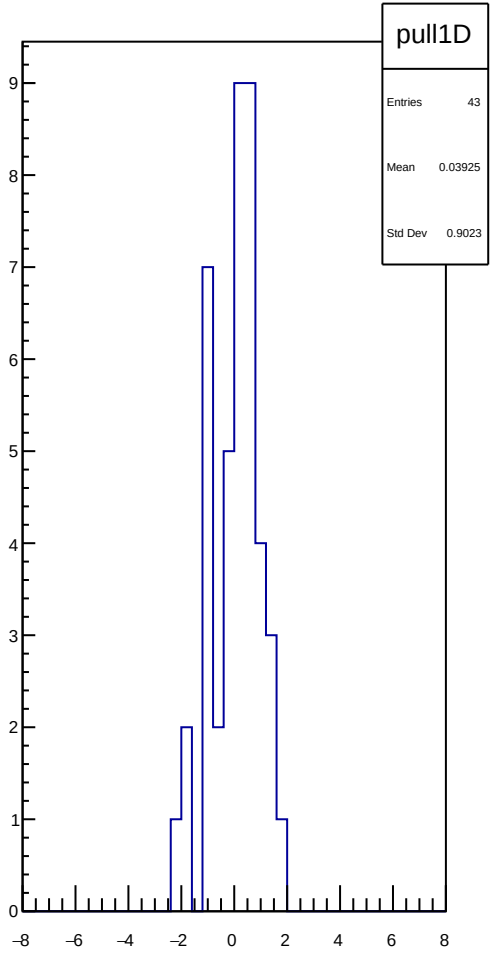

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.74e+05 / 42
p0 0.002008 ± 2.843e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

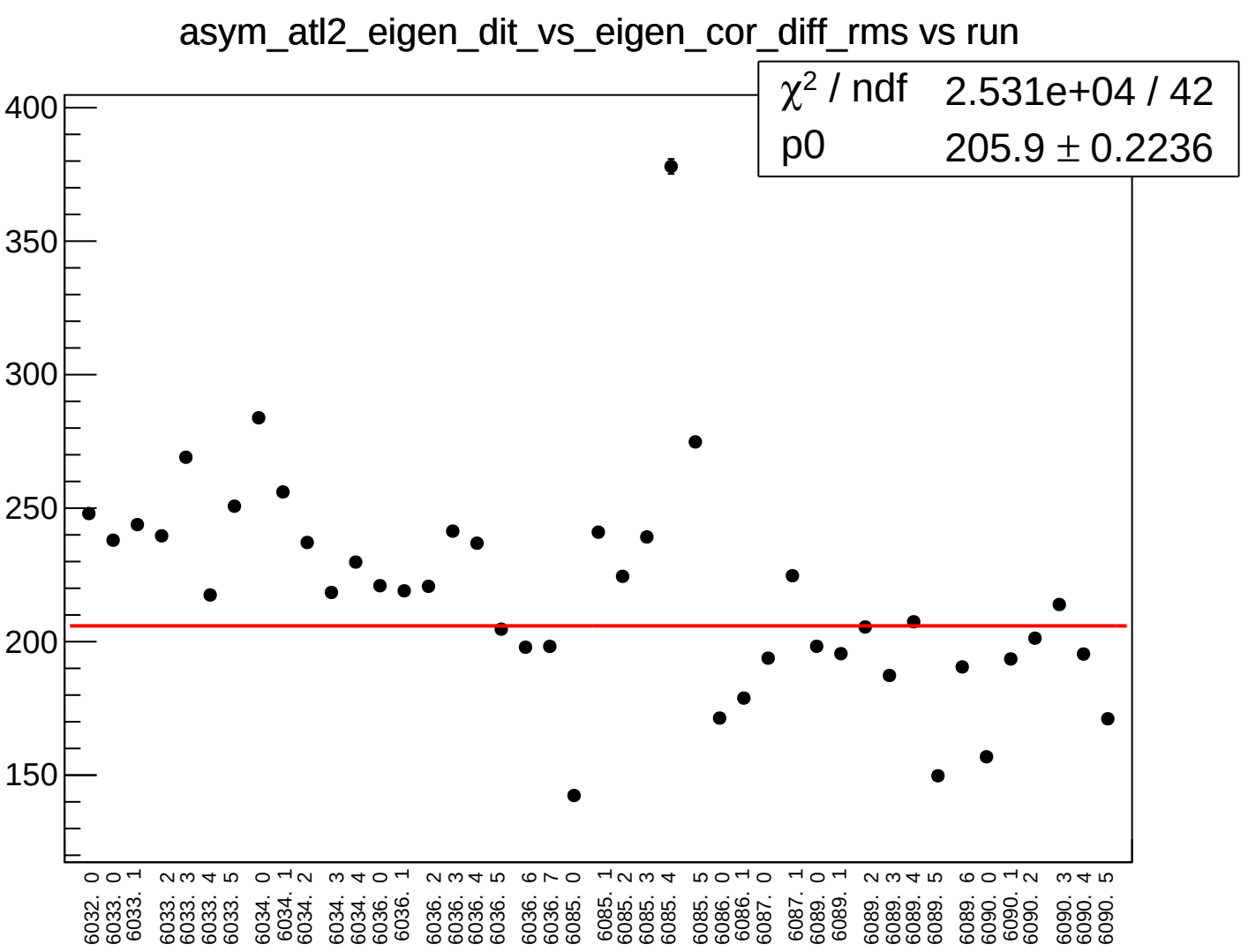

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.07 / 42
p0 −0.8602 ± 0.3163
8
6
4
2
0
−2
−4
−6
−8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 54.68
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

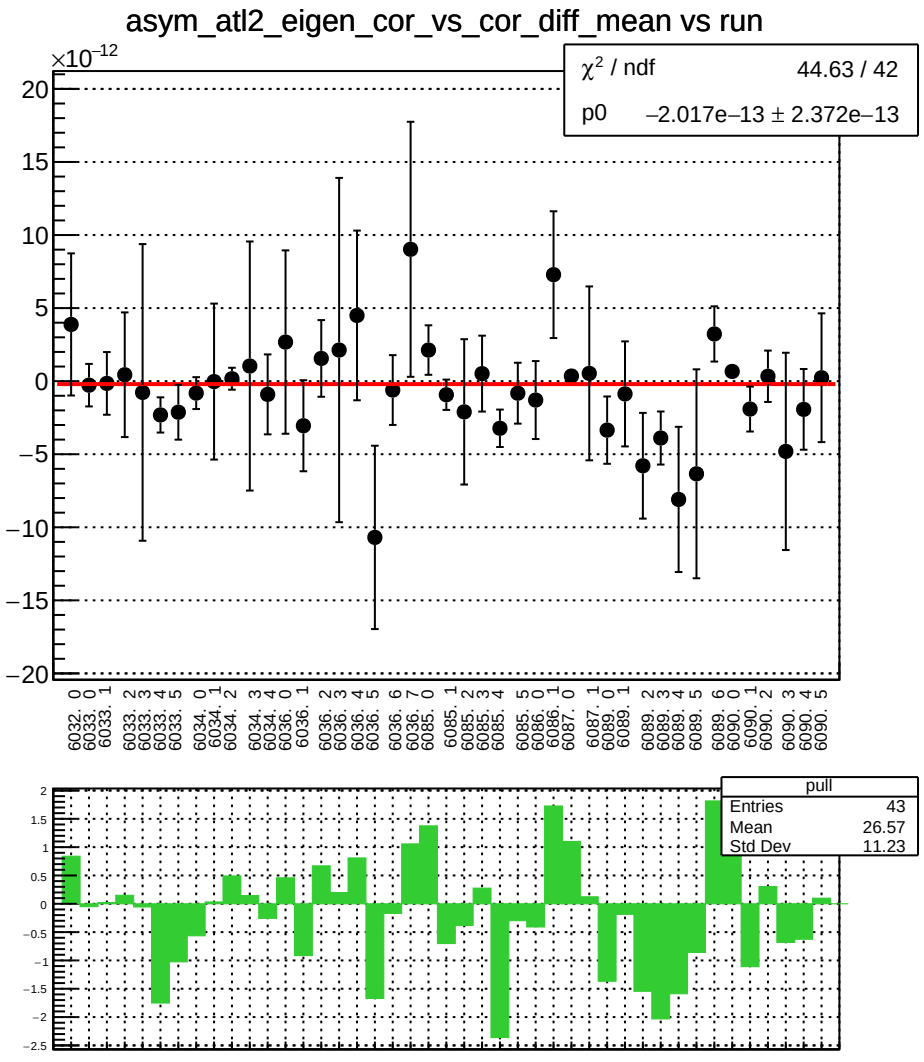

pull1D
Entries 43
Mean 0.03925
Std Dev 0.9023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

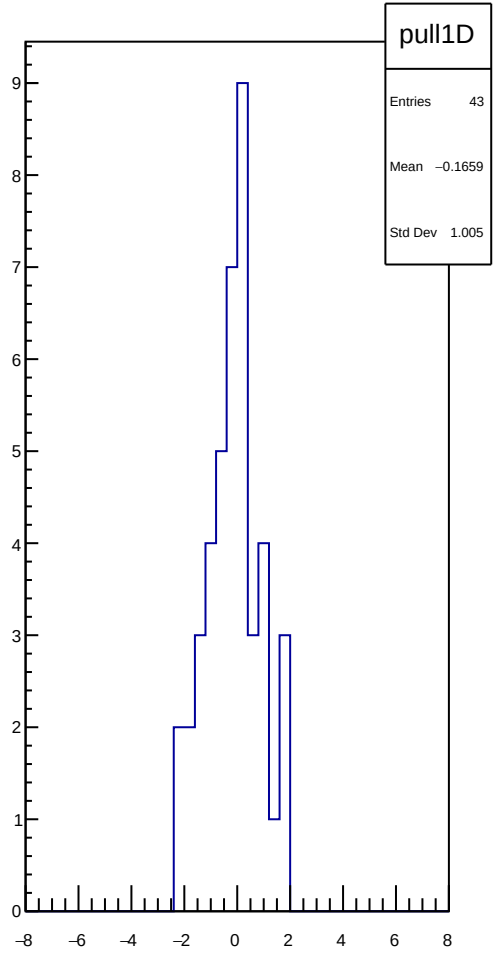

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.531e+04 / 42
p0 205.9 ± 0.2236
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

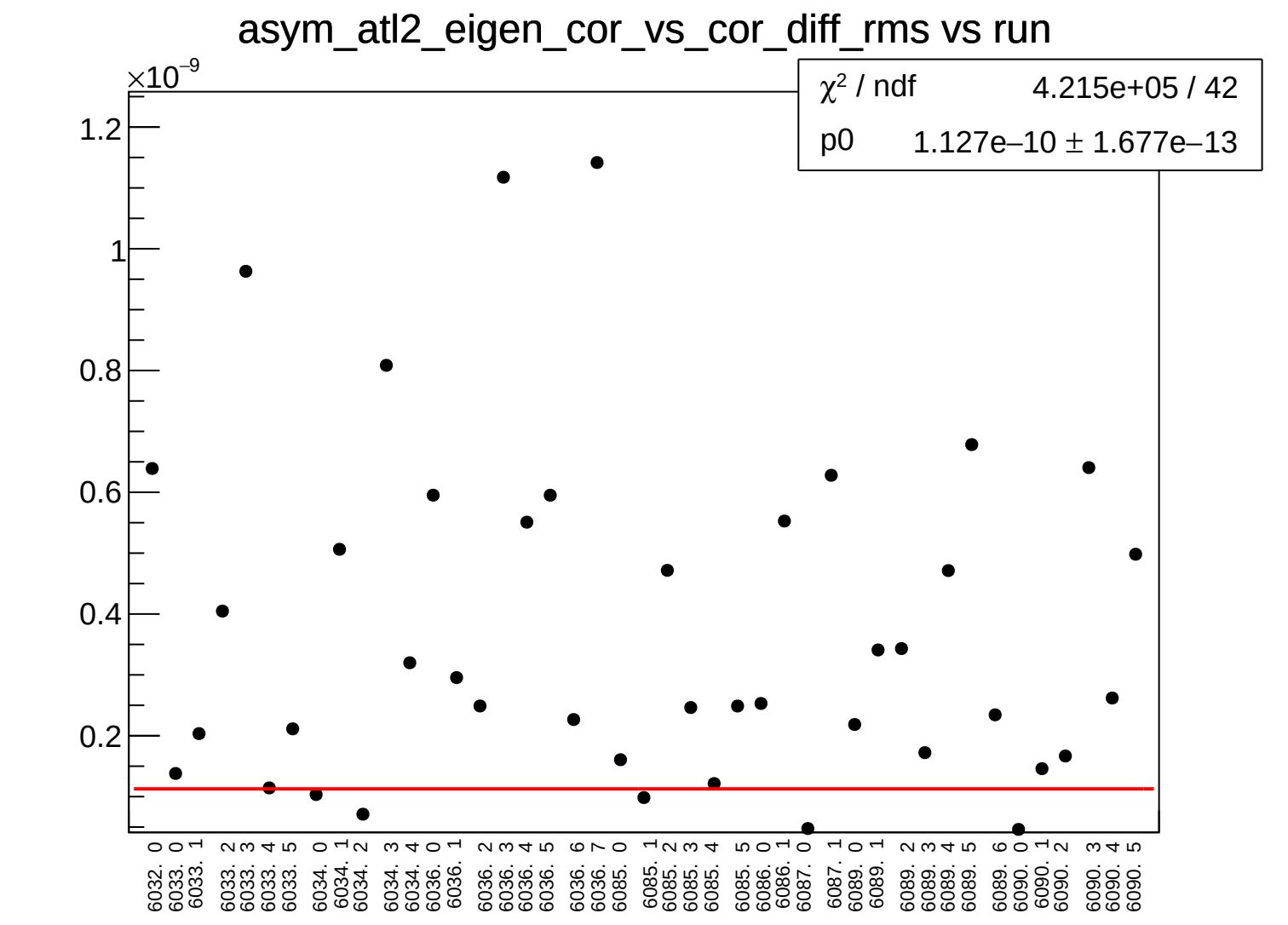

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.07 / 42
p0 −0.8602 ± 0.3163
pull
Entries 43
Mean 54.68
Std Dev 0

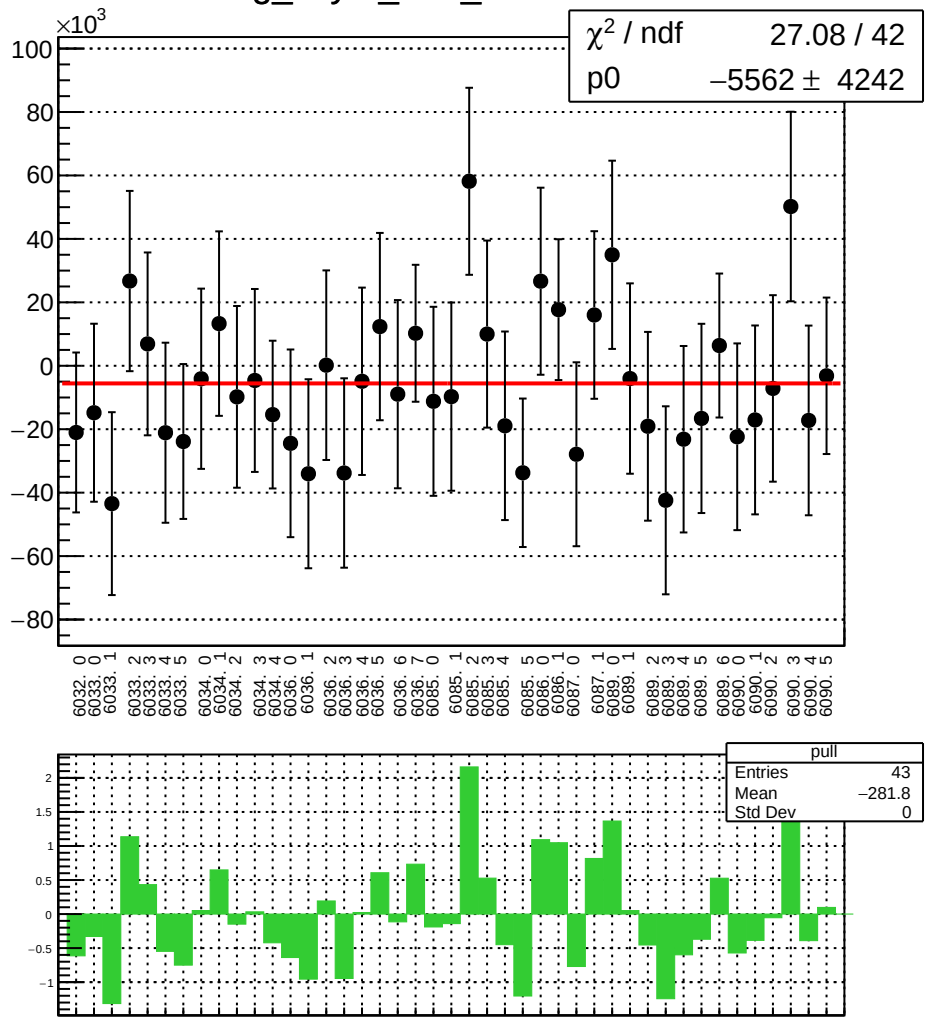

pull1D
Entries 43
Mean 0.03925
Std Dev 0.9023

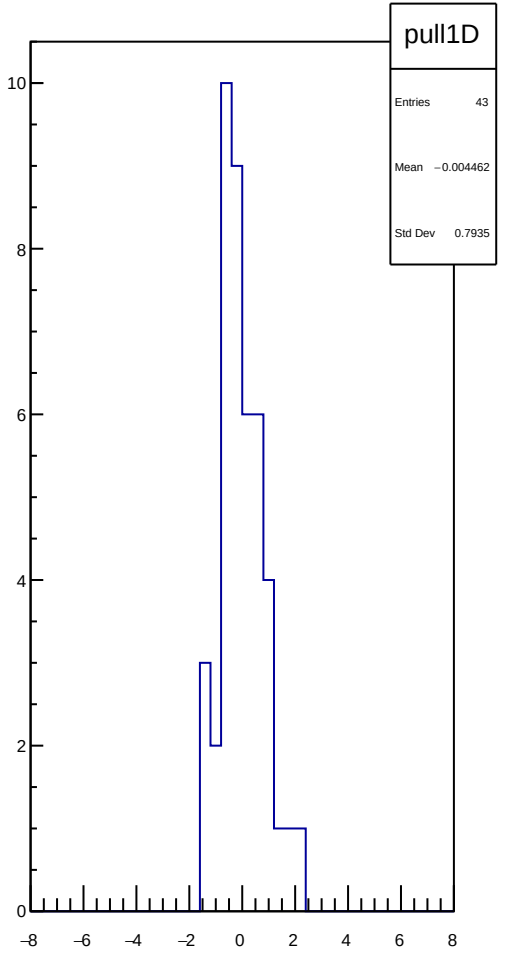

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.531e+04 / 42
p0 205.9 ± 0.2236
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

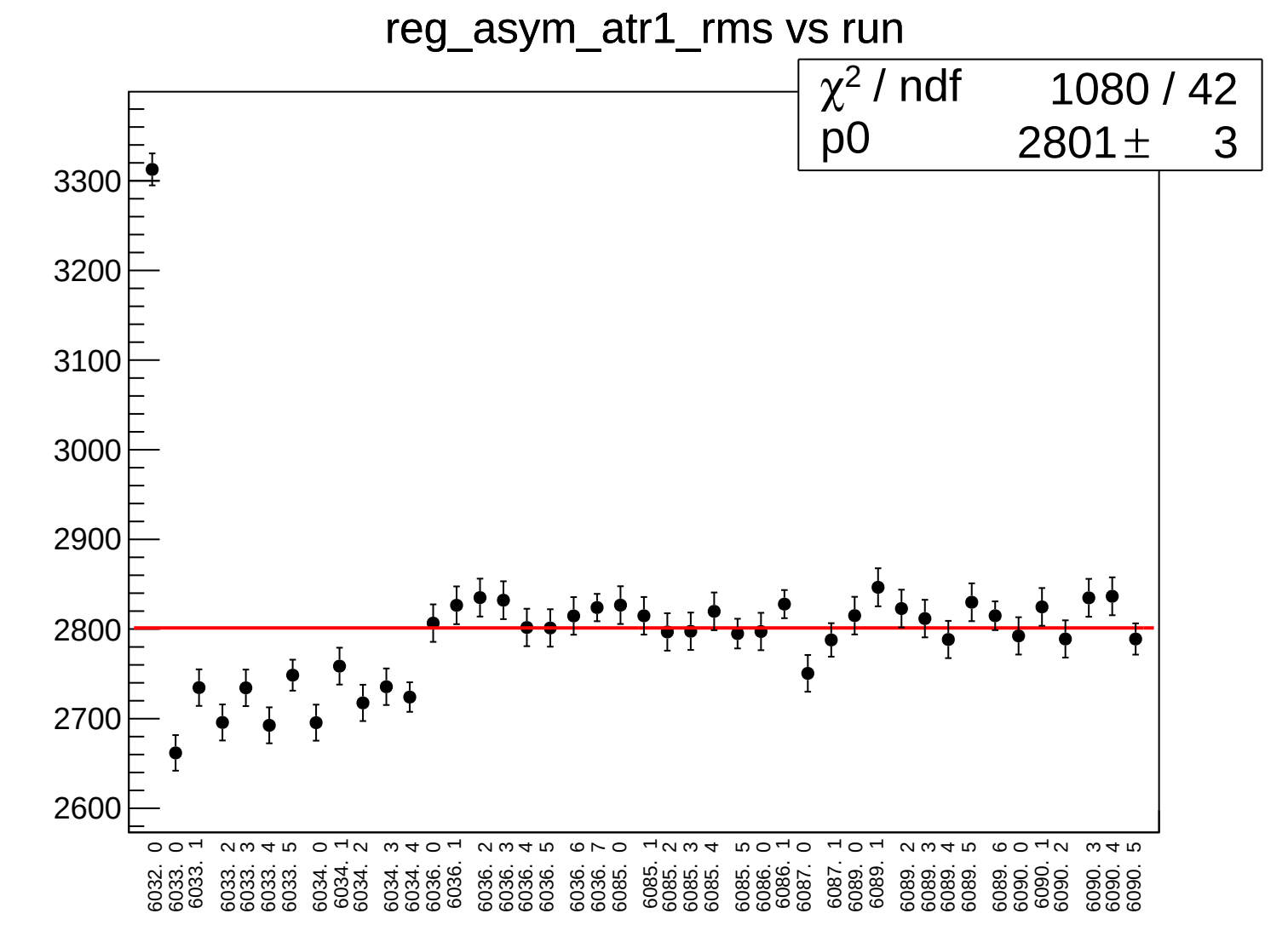

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.63 / 42
p0 −2.017e−13 ± 2.372e−13
pull
Entries 43
Mean 26.57
Std Dev 11.23

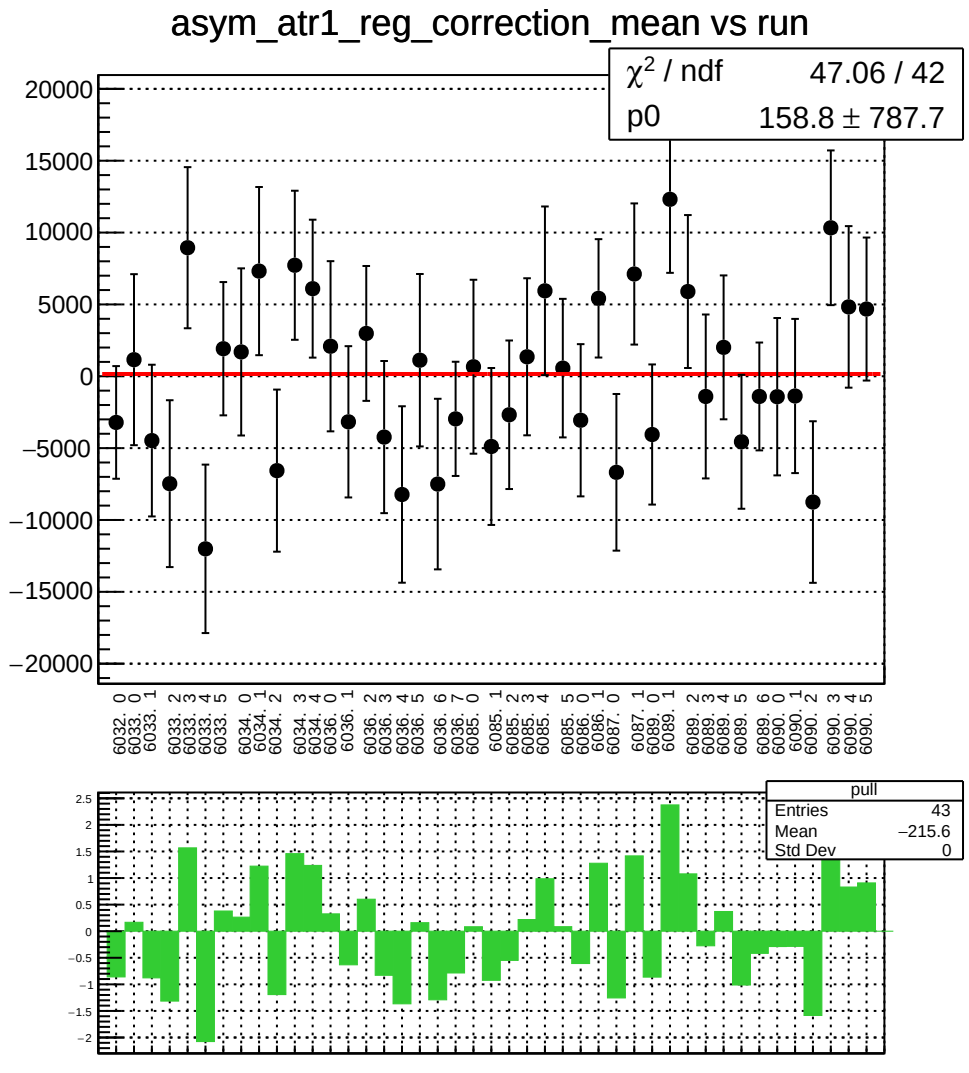

pull1D
Entries 43
Mean −0.1659
Std Dev 1.005

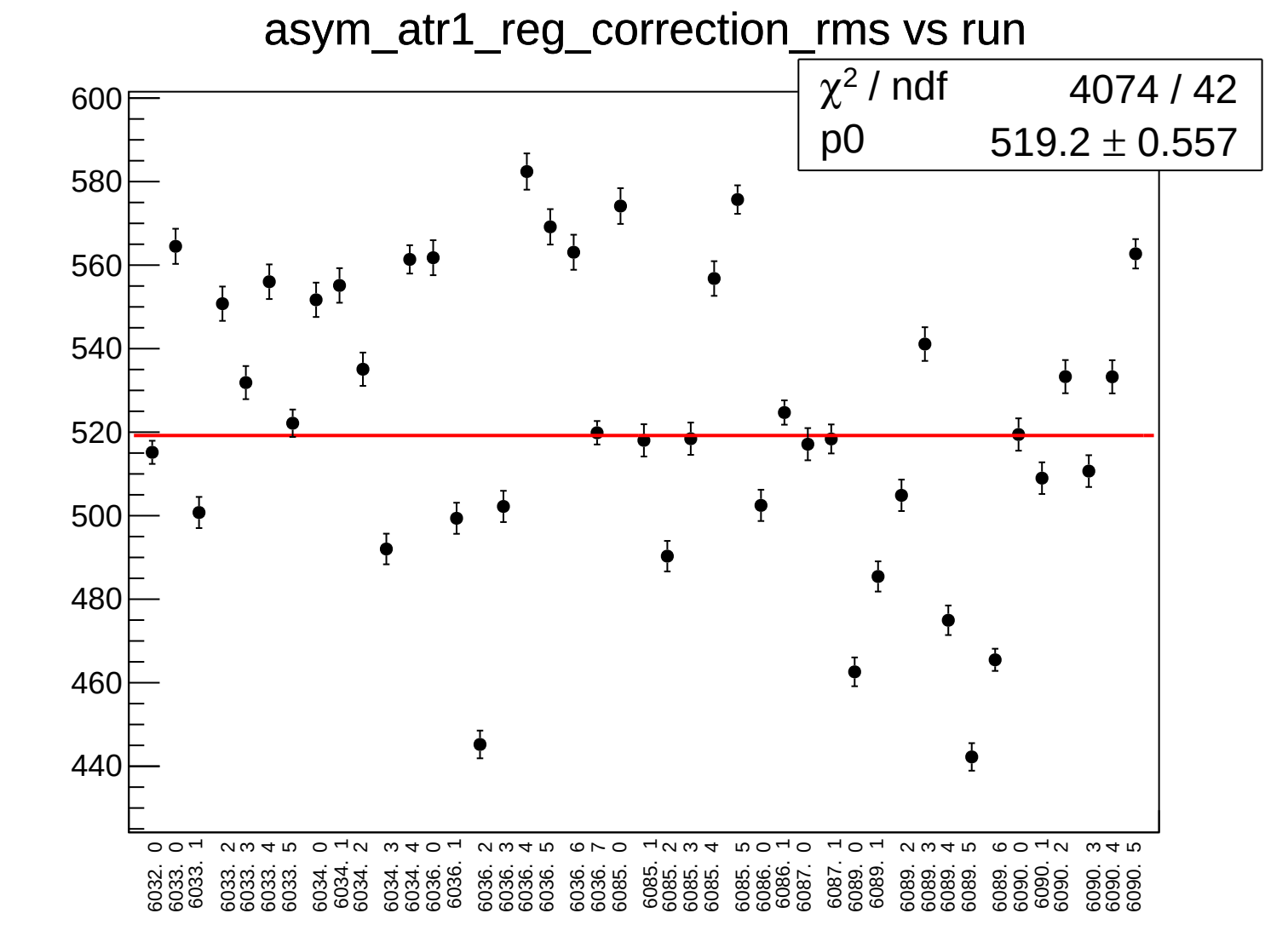

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.215e+05 / 42
p0 1.127e−10 ± 1.677e−13
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

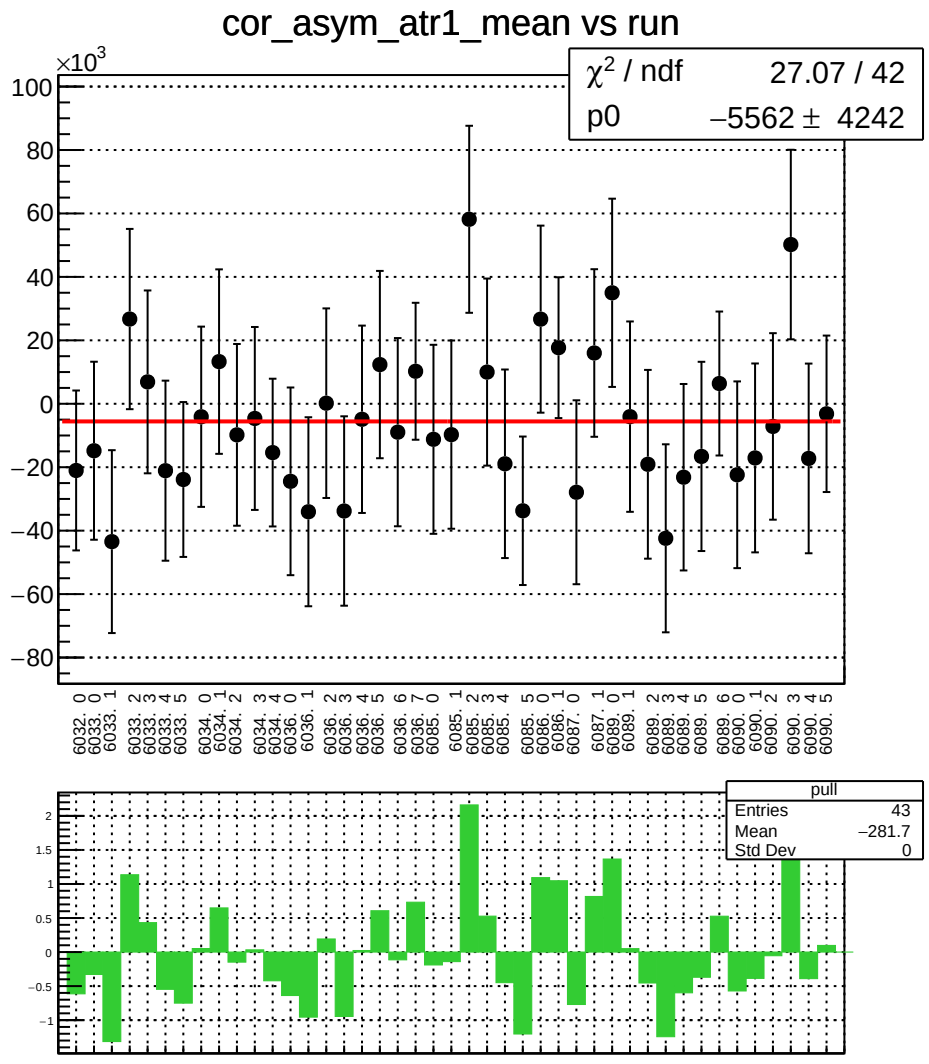

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 27.08 / 42
p0 −5562 ± 4242
pull
Entries 43
Mean −281.8
Std Dev 0

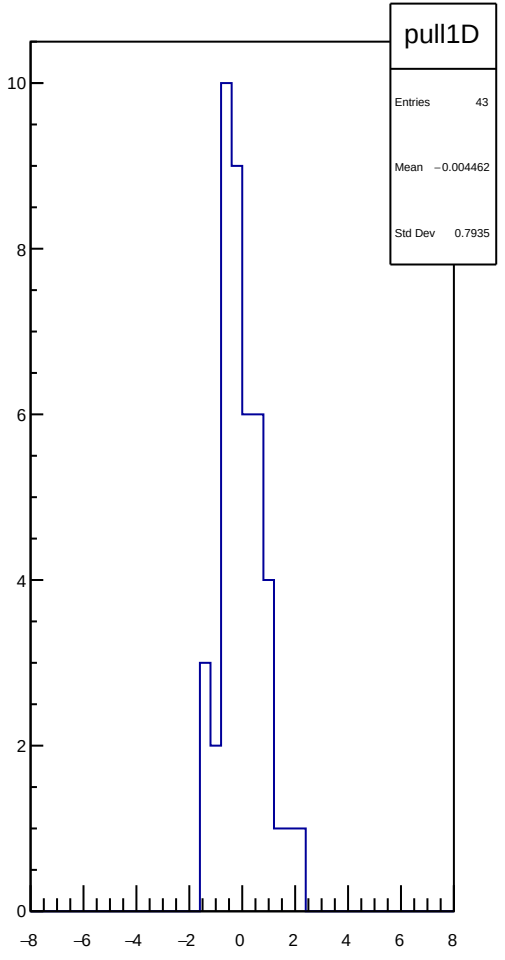

pull1D
Entries 43
Mean −0.004462
Std Dev 0.7935

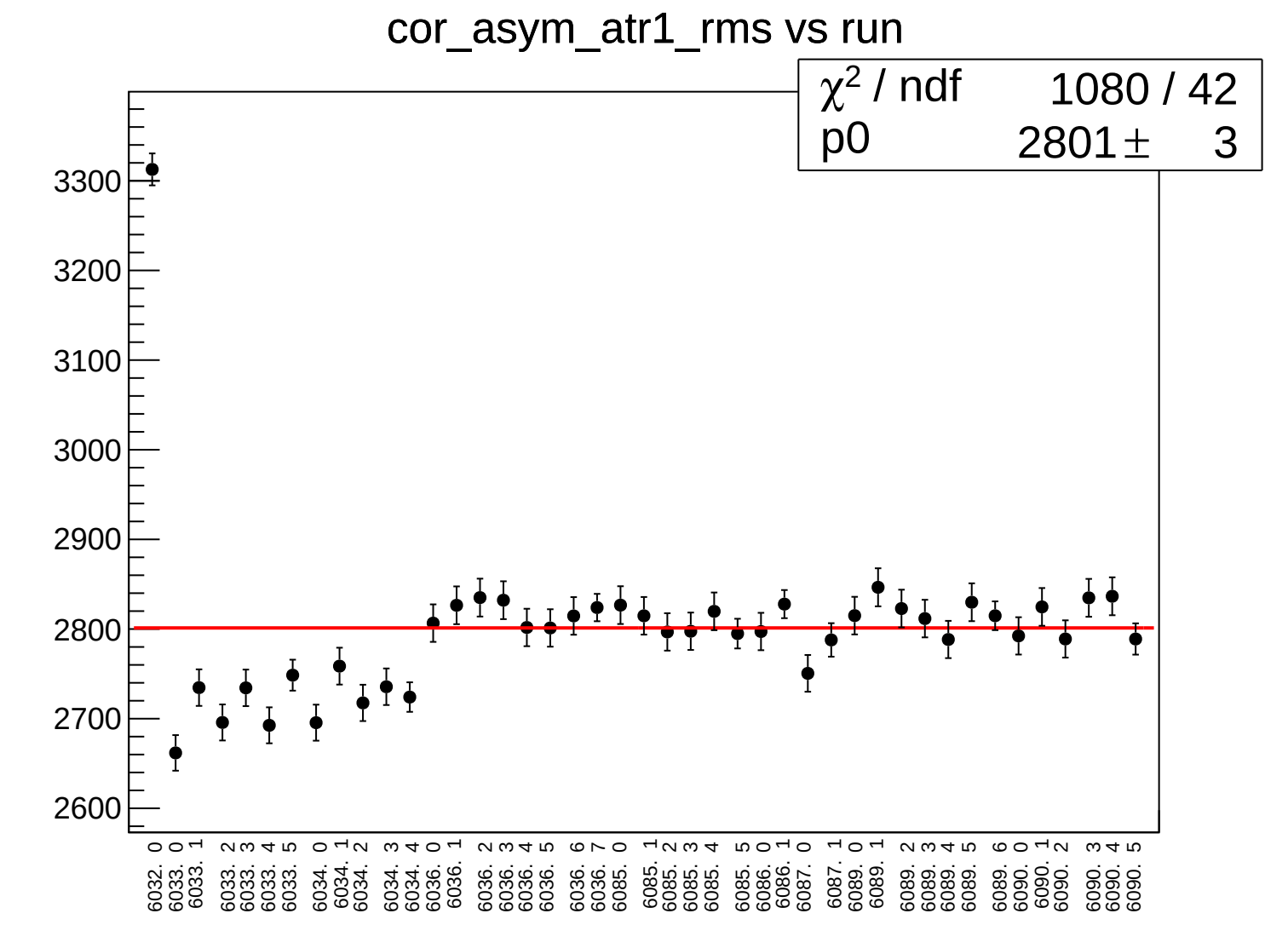

reg_asym_atr1_rms vs run
χ² / ndf 1080 / 42
p0 2801 ± 3
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

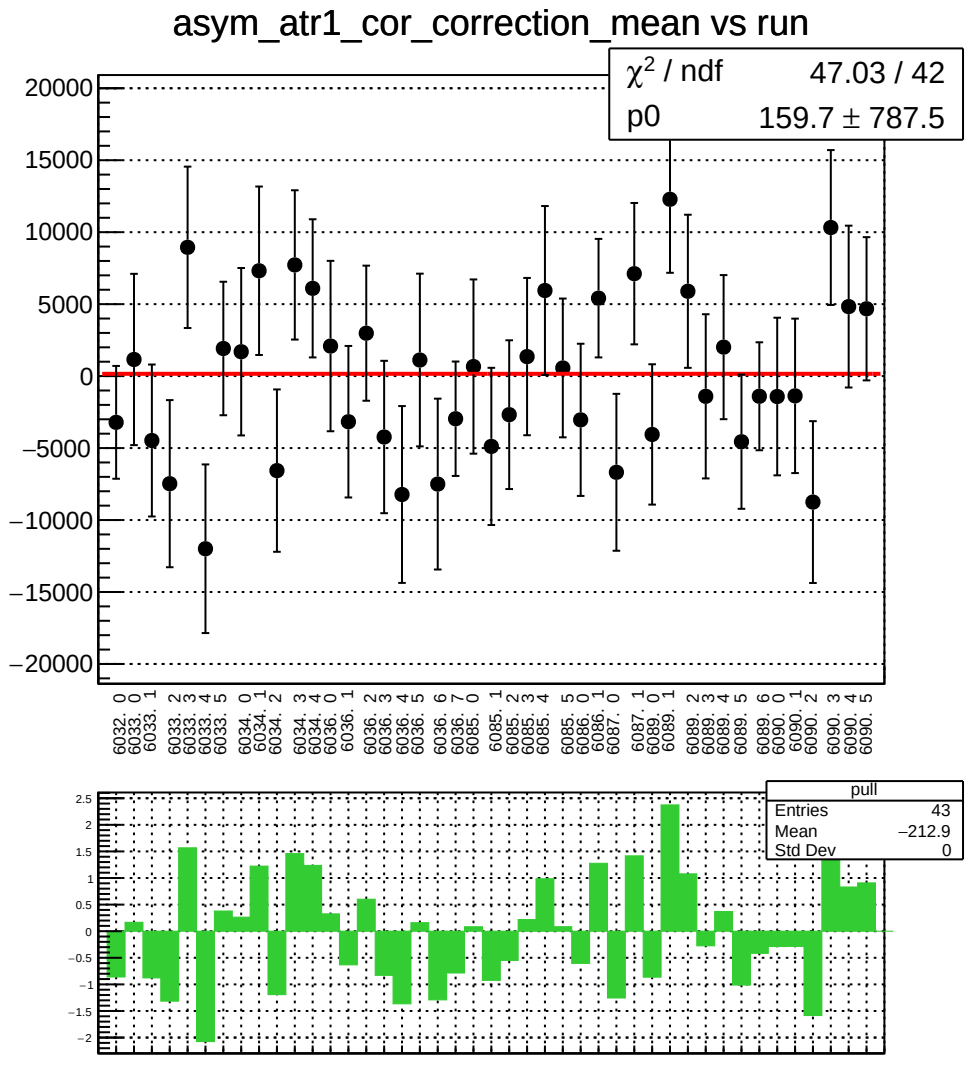

asym_atr1_reg_correction_mean vs run
χ² / ndf 47.06 / 42
p0 158.8 ± 787.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −215.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.008784
Std Dev 1.046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

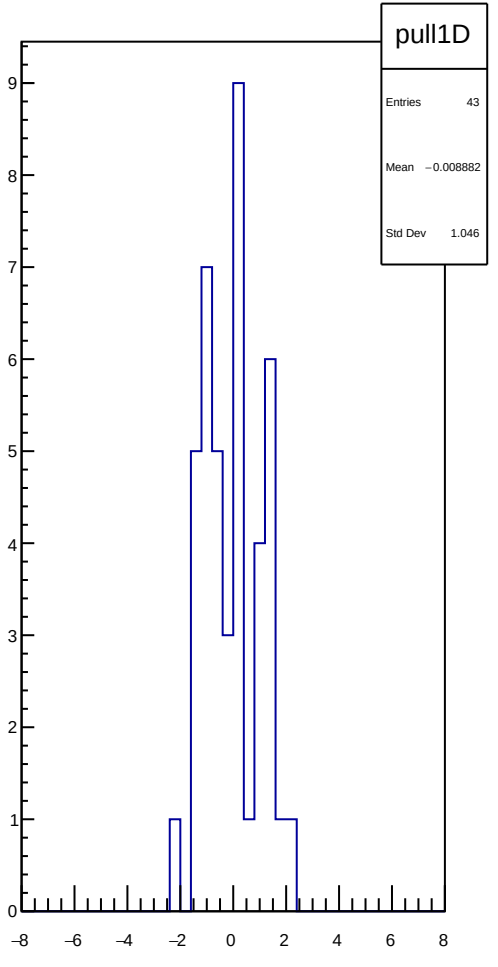

asym_atr1_reg_correction_rms vs run
χ² / ndf 4074 / 42
p0 519.2 ± 0.557
600
580
560
540
520
500
480
460
440
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

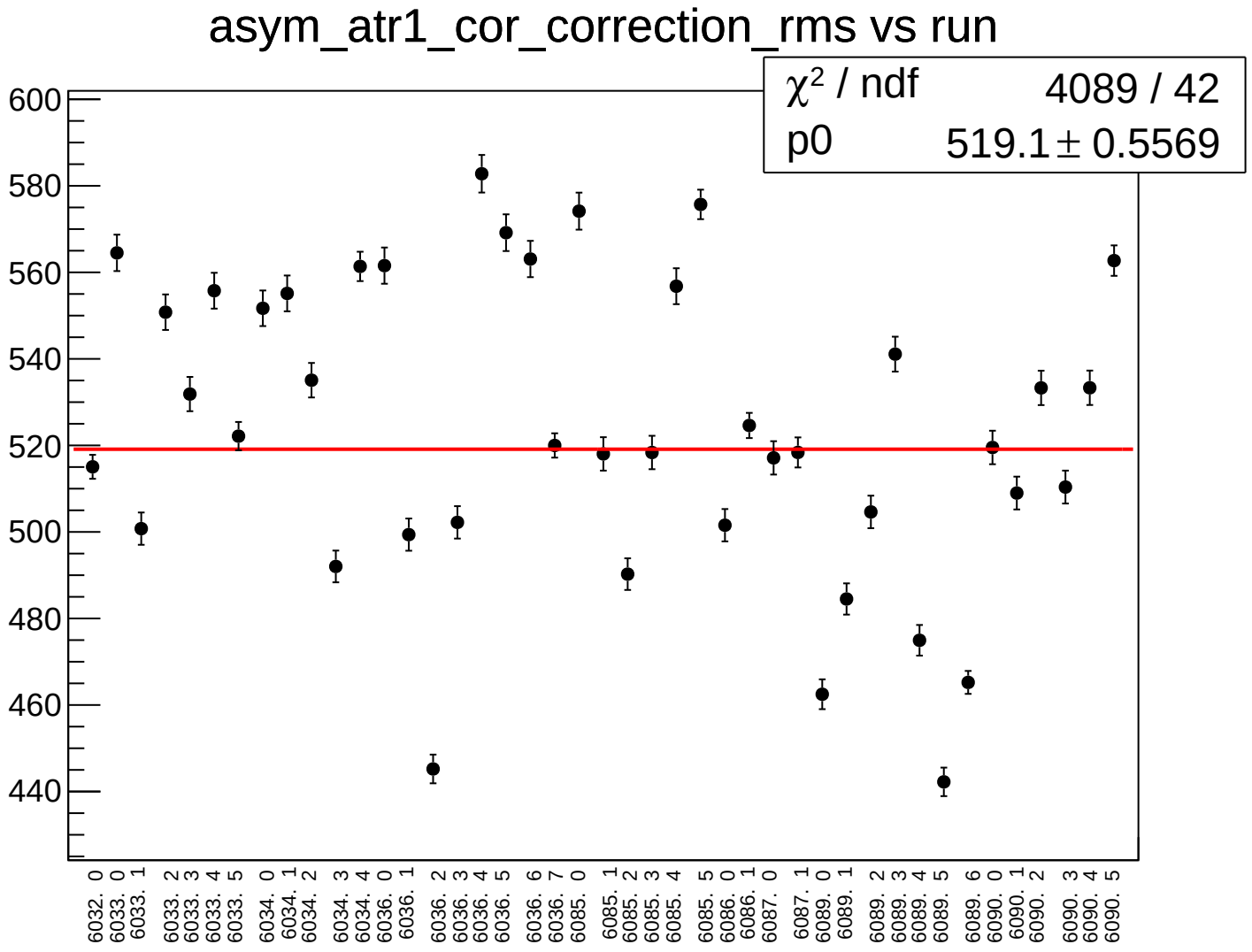

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 27.07 / 42
p0 −5562 ± 4242
pull
Entries 43
Mean −281.7
Std Dev 0

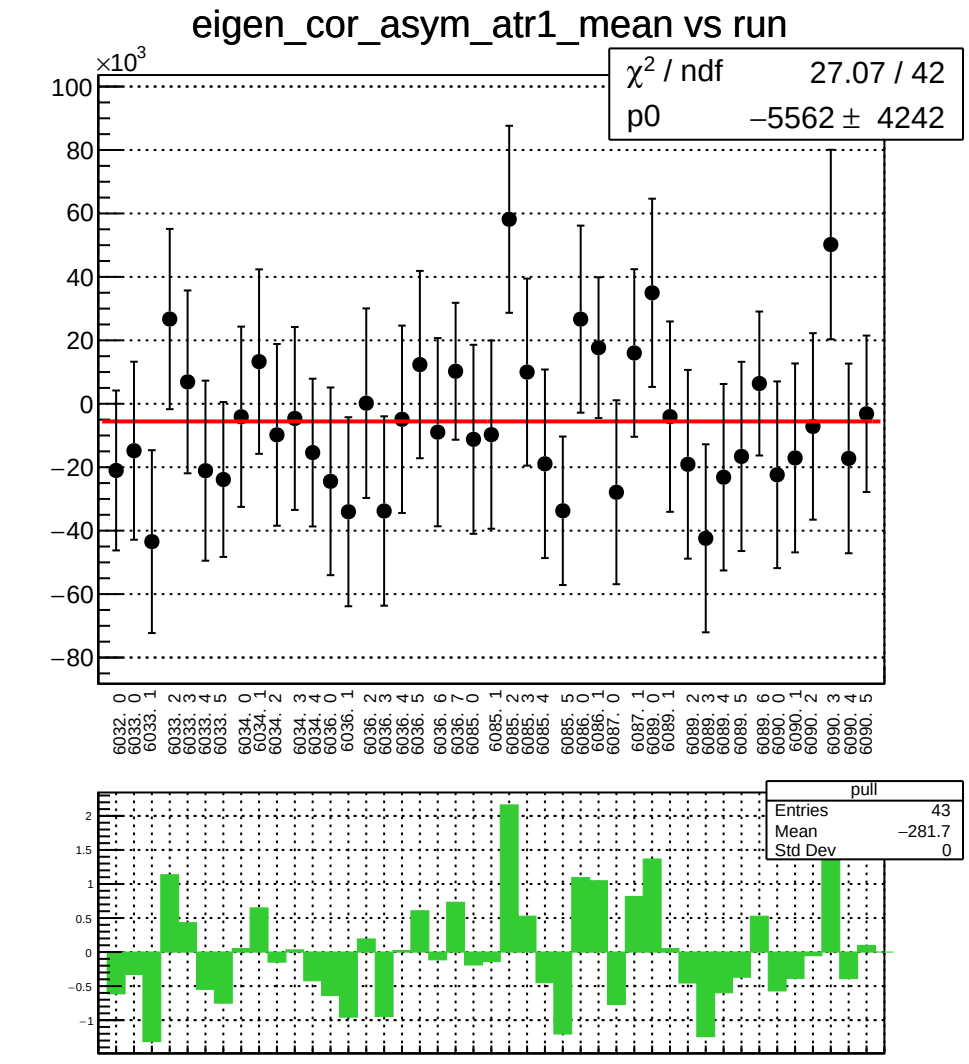

pull1D
Entries 43
Mean −0.004462
Std Dev 0.7935

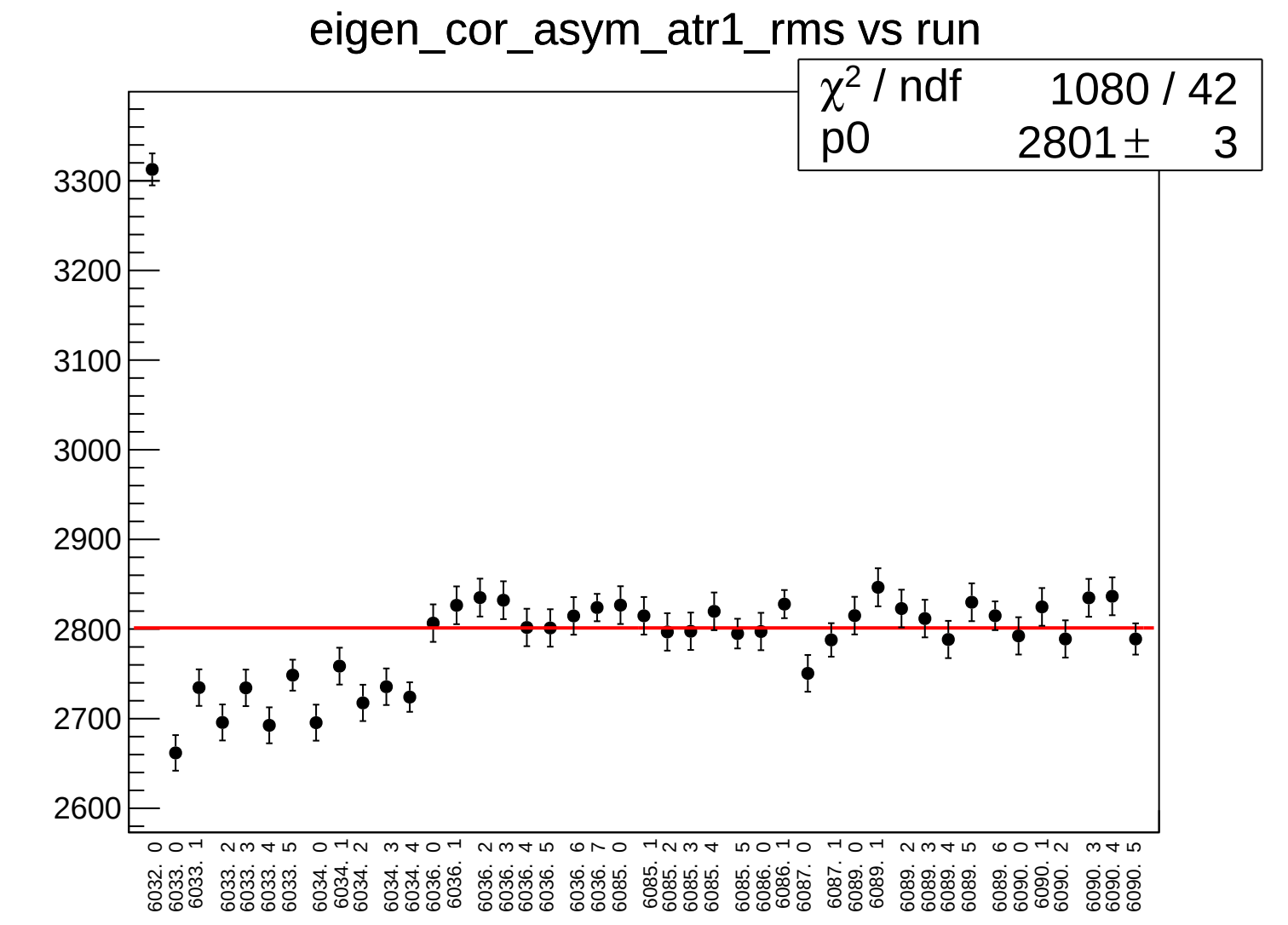

cor_asym_atr1_rms vs run
χ² / ndf 1080 / 42
p0 2801 ± 3
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

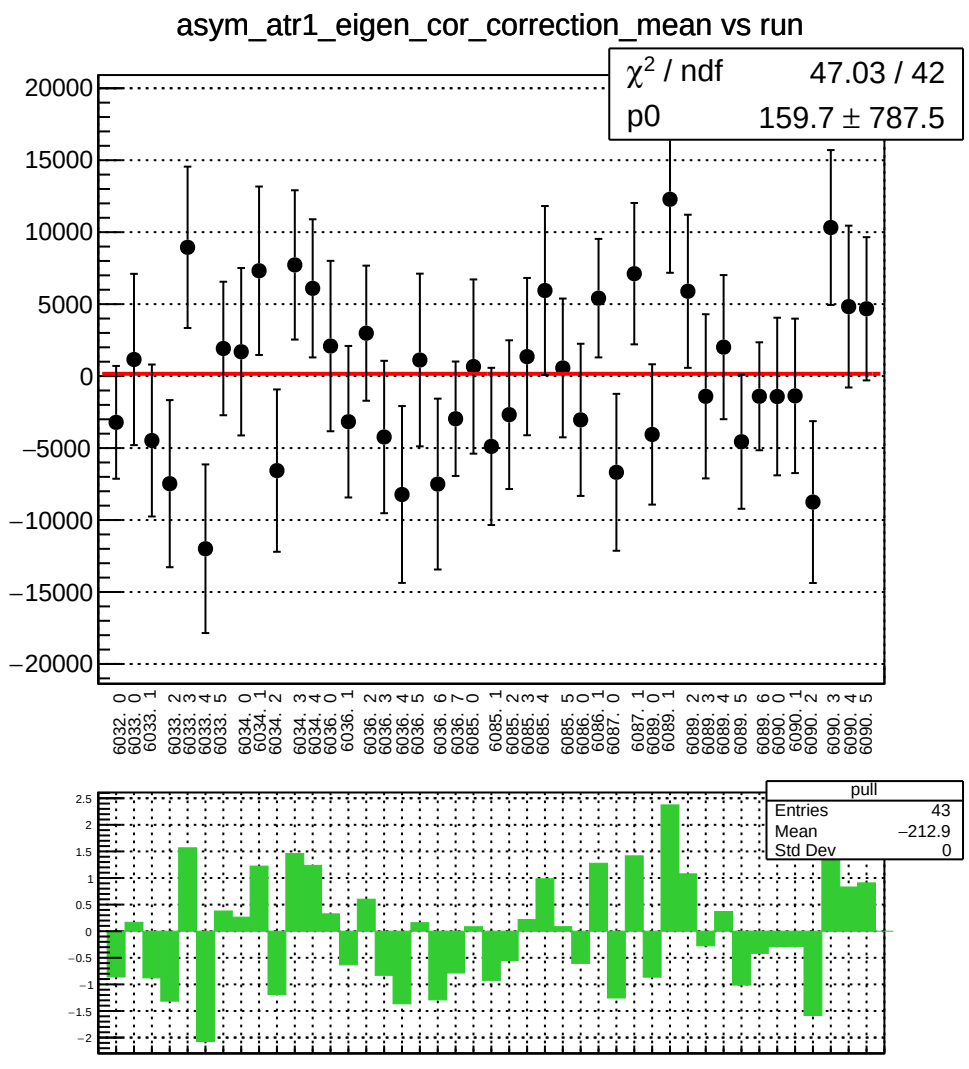

asym_atr1_cor_correction_mean vs run
χ² / ndf 47.03 / 42
p0 159.7 ± 787.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −212.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

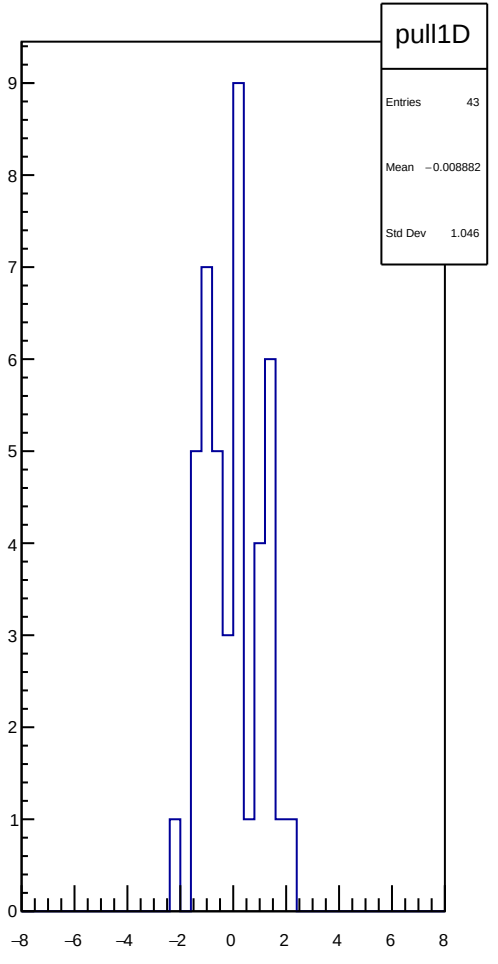

pull1D
Entries 43
Mean −0.008882
Std Dev 1.046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

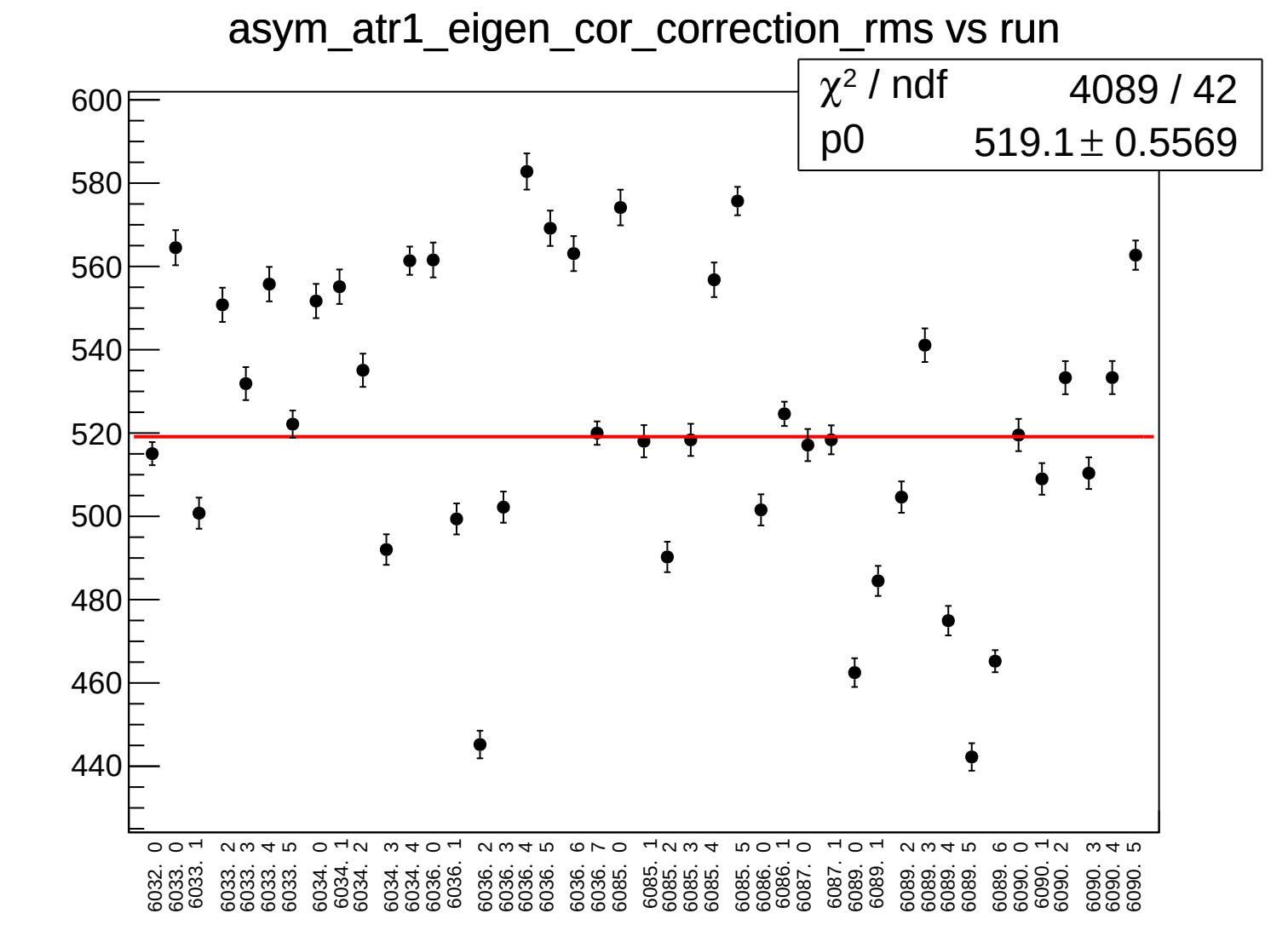

asym_atr1_cor_correction_rms vs run
χ² / ndf 4089 / 42
p0 519.1 ± 0.5569
600
580
560
540
520
500
480
460
440
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

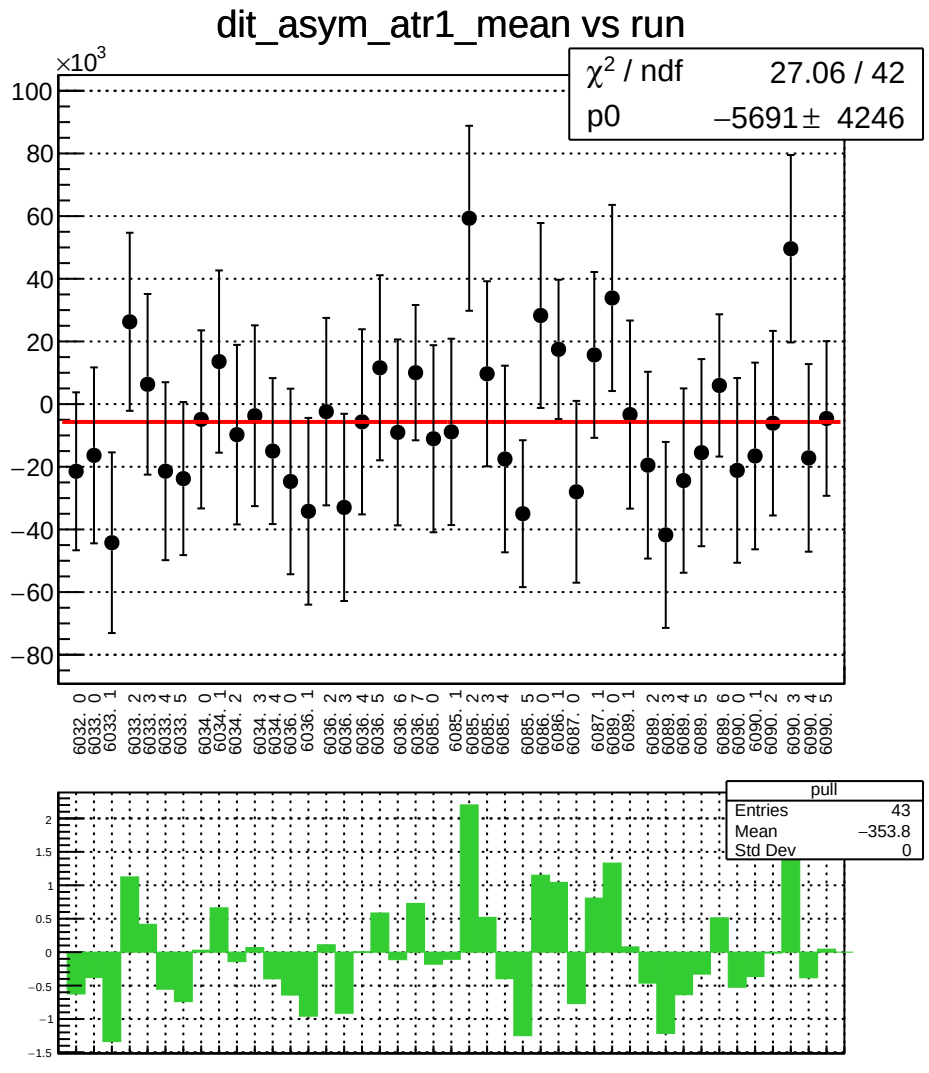

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 27.07 / 42
p0 −5562 ± 4242
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −281.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.004462
Std Dev 0.7935
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

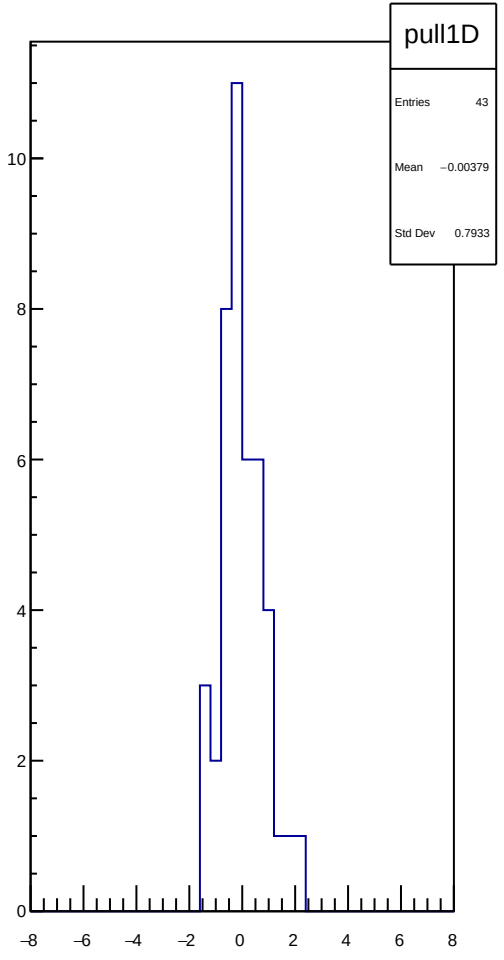

eigen_cor_asym_atr1_rms vs run
χ² / ndf 1080 / 42
p0 2801 ± 3
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

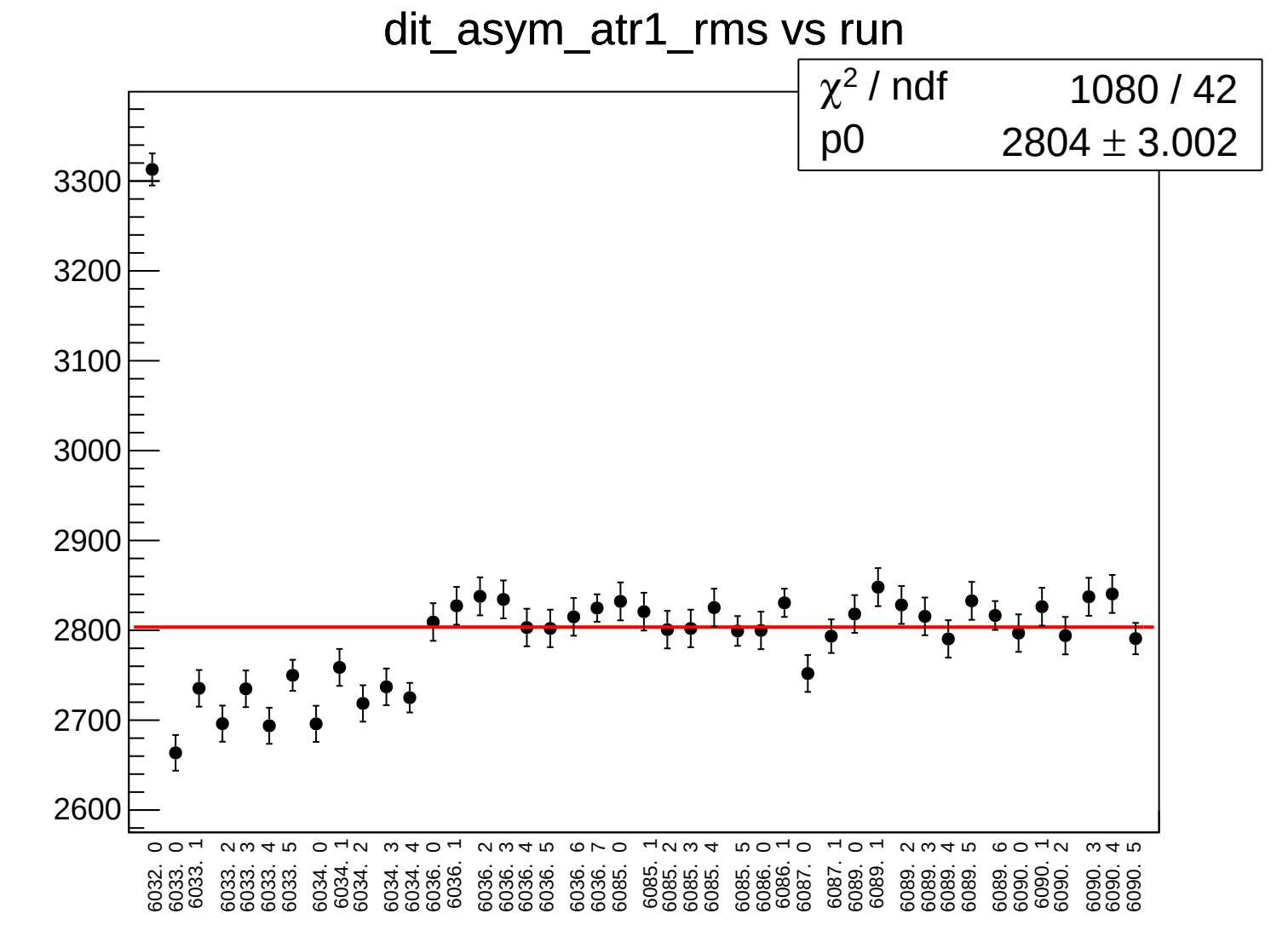

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 47.03 / 42
p0 159.7 ± 787.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −212.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

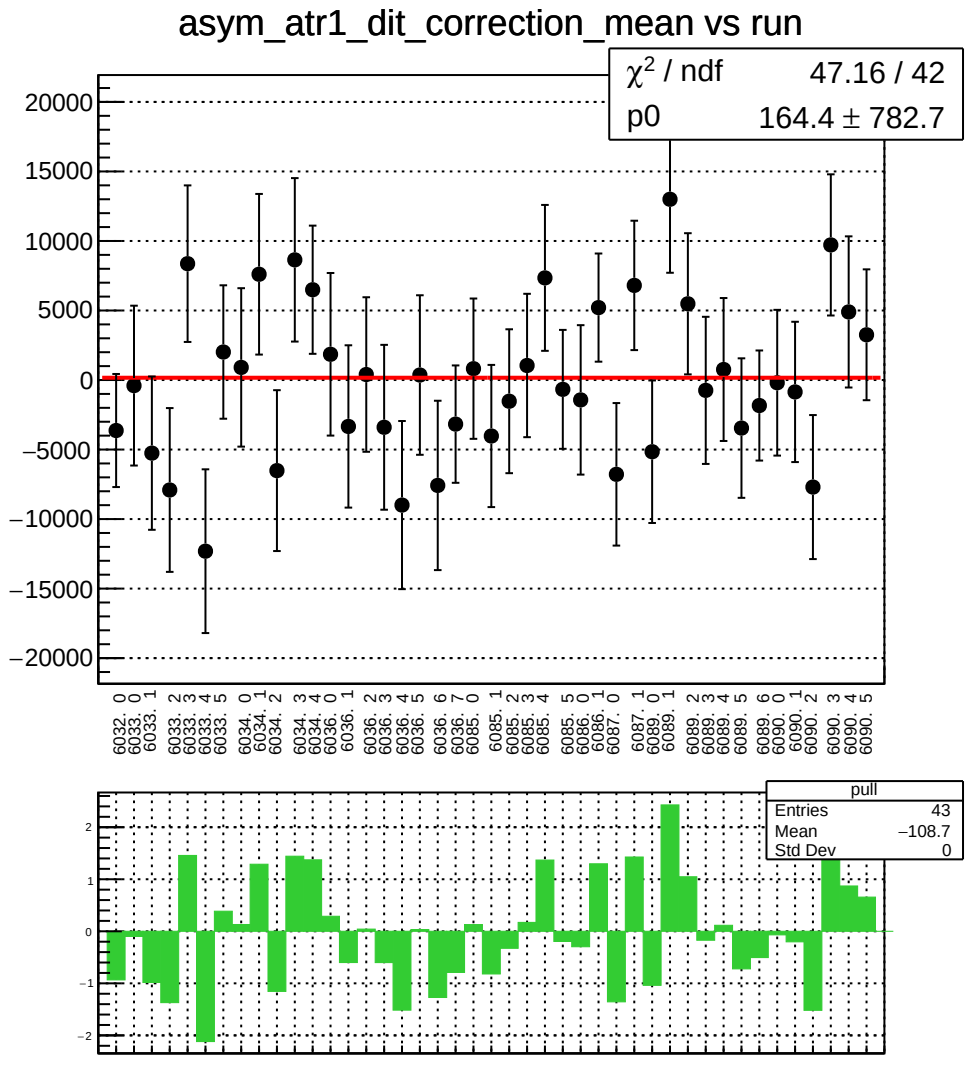

pull1D
Entries 43
Mean −0.008882
Std Dev 1.046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

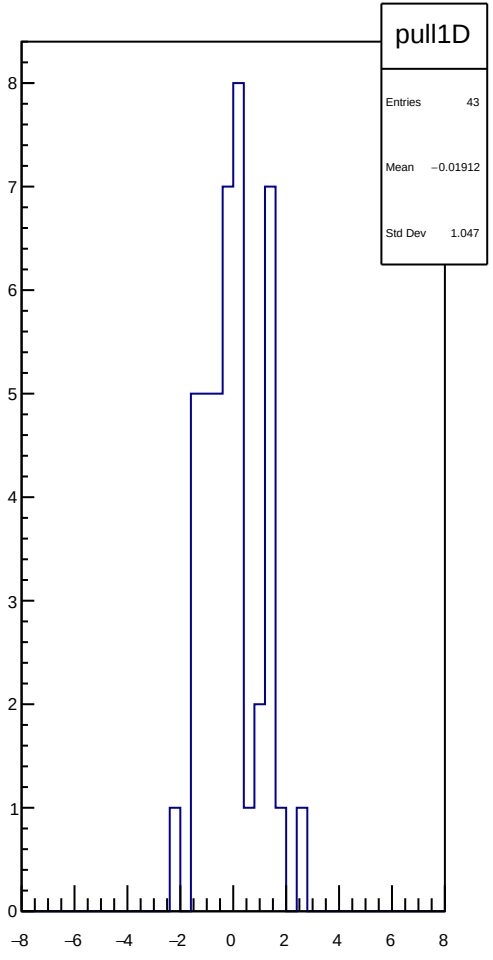

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 4089 / 42
p0 519.1 ± 0.5569
600
580
560
540
520
500
480
460
440
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

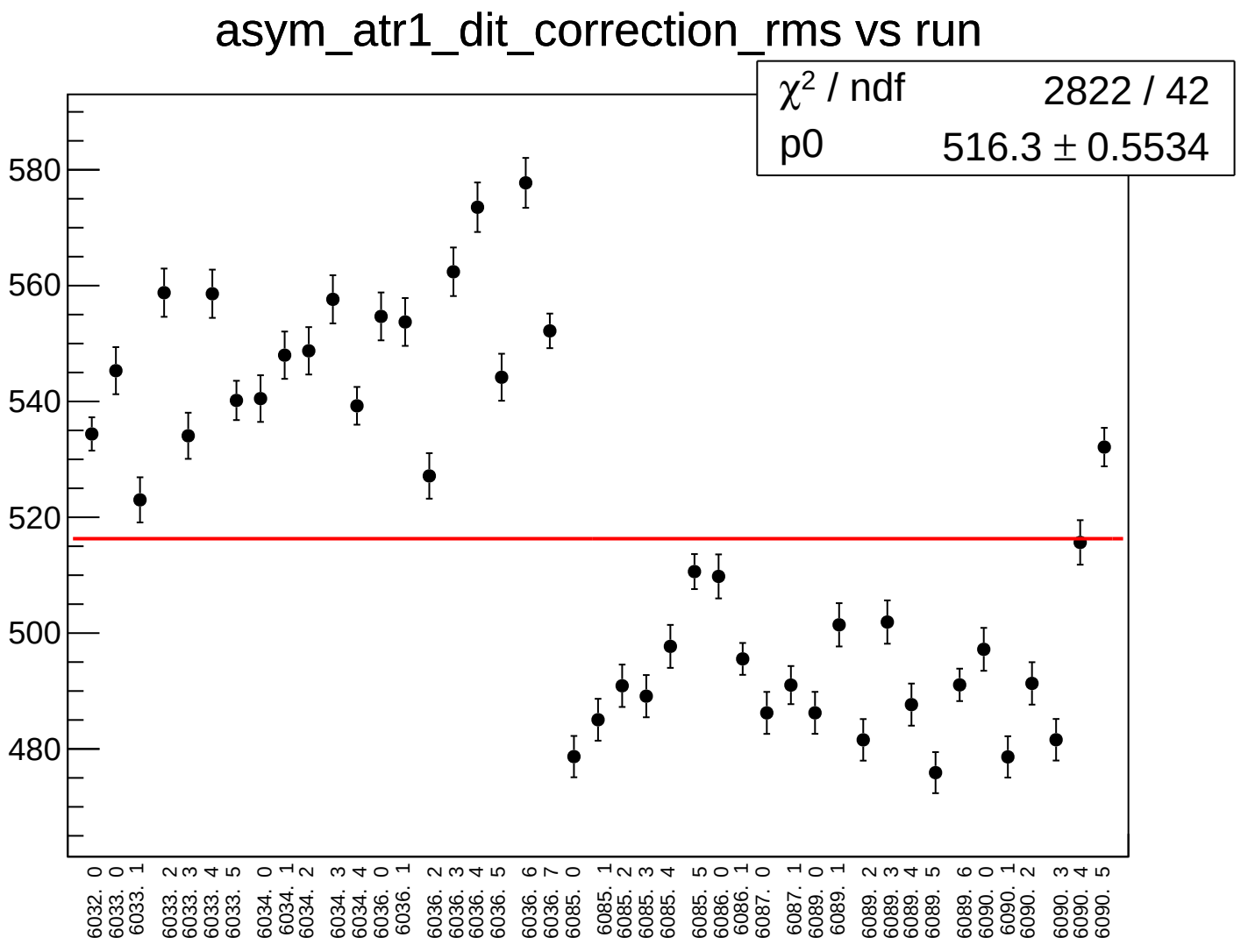

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 27.06 / 42
p0 −5691 ± 4246
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −353.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

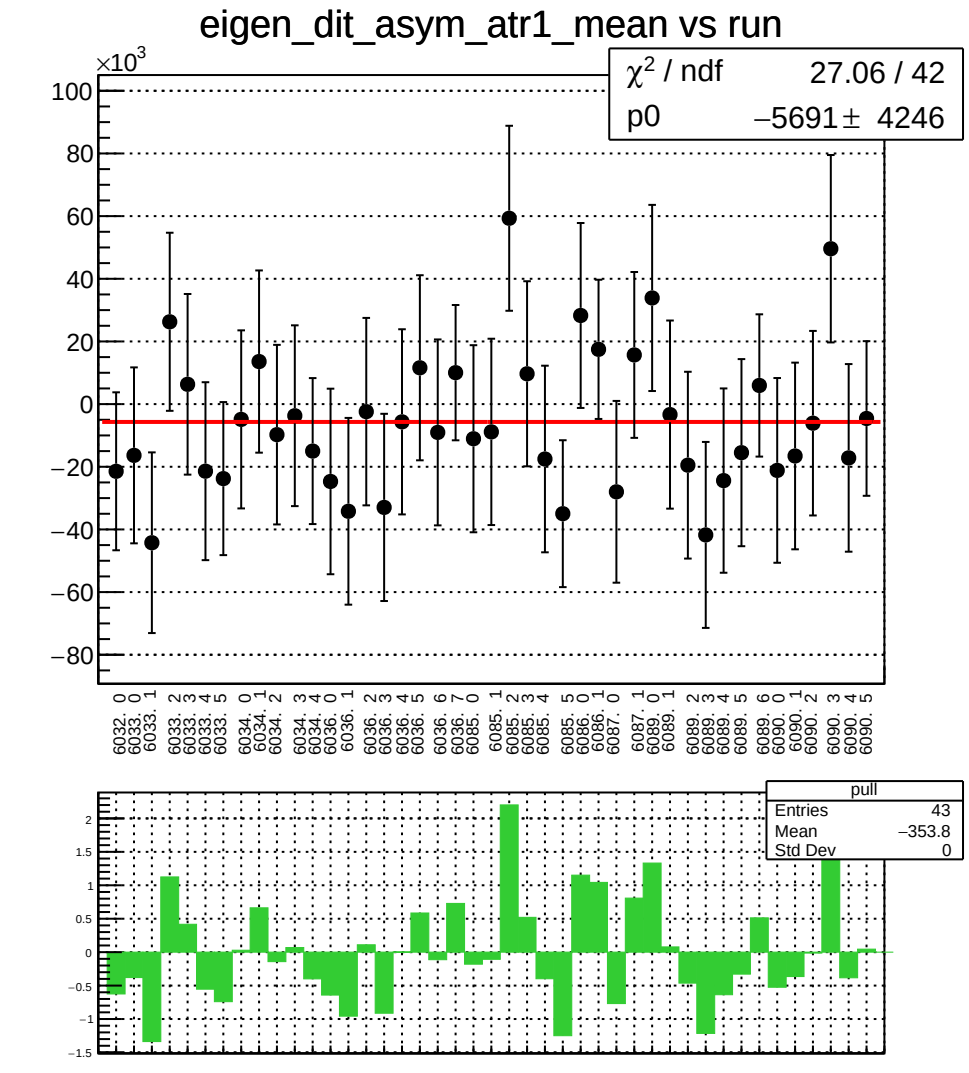

pull1D
Entries 43
Mean −0.00379
Std Dev 0.7933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

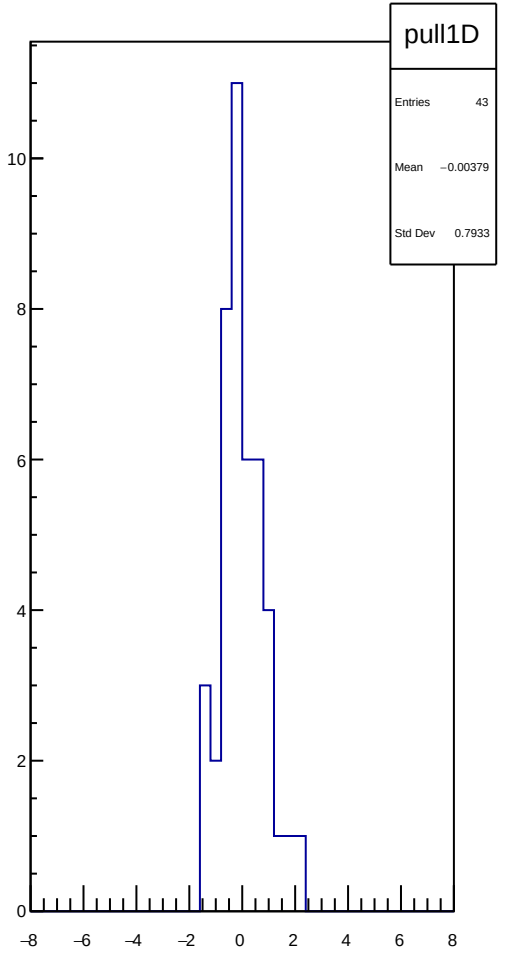

dit_asym_atr1_rms vs run
χ² / ndf 1080 / 42
p0 2804 ± 3.002
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

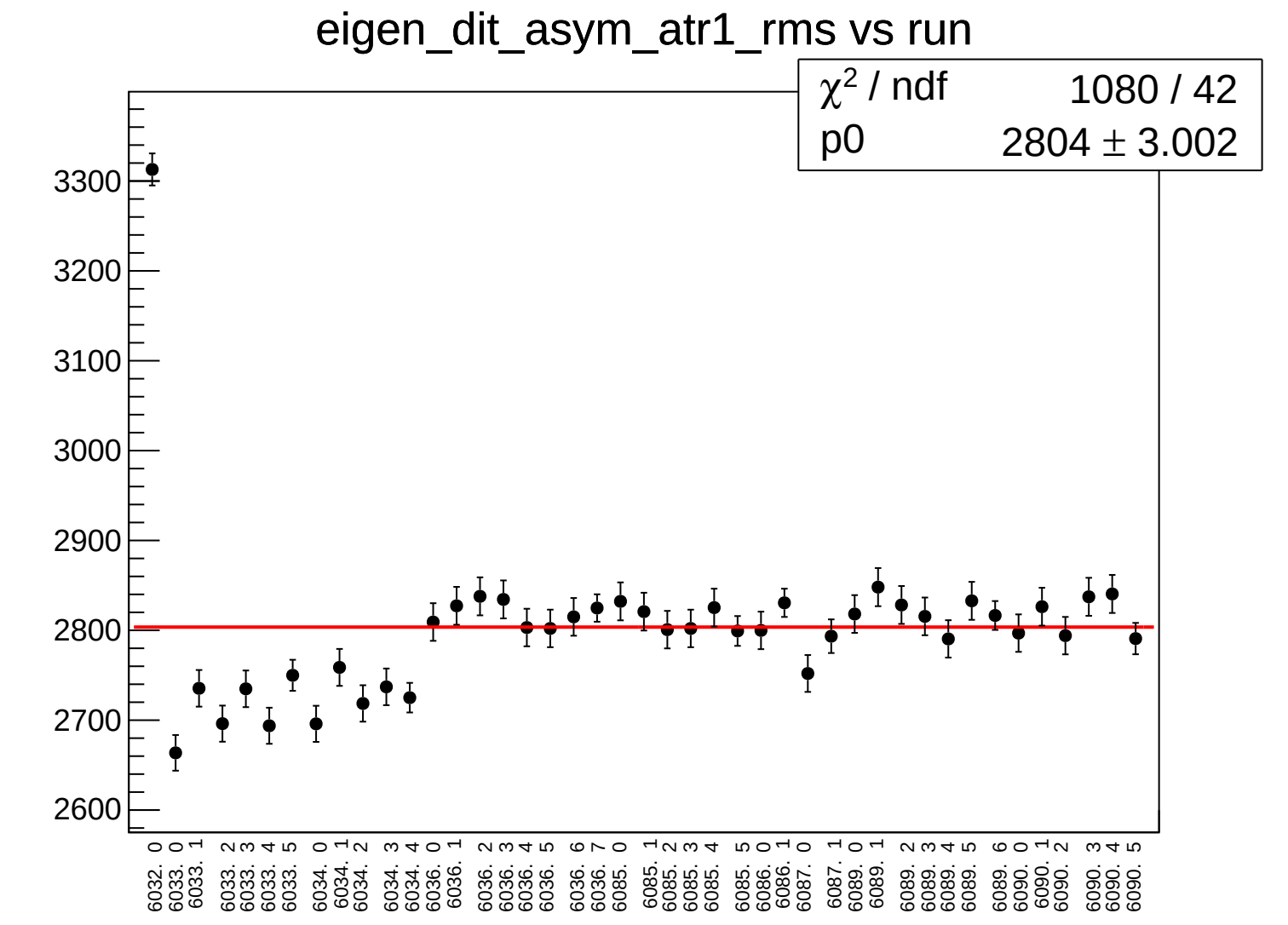

asym_atr1_dit_correction_mean vs run
χ² / ndf 47.16 / 42
p0 164.4 ± 782.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −108.7
Std Dev 0
2
1
0
−1
−2

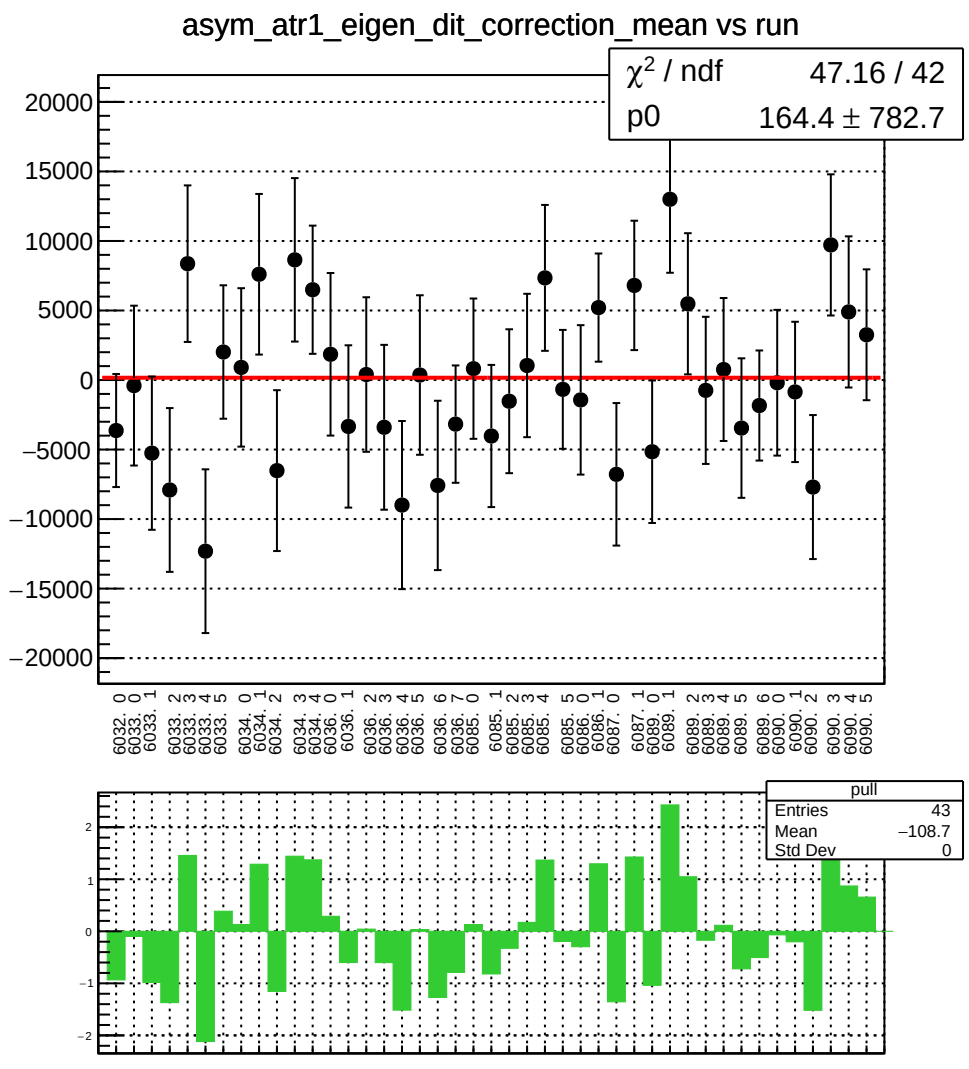

pull1D
Entries 43
Mean −0.01912
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

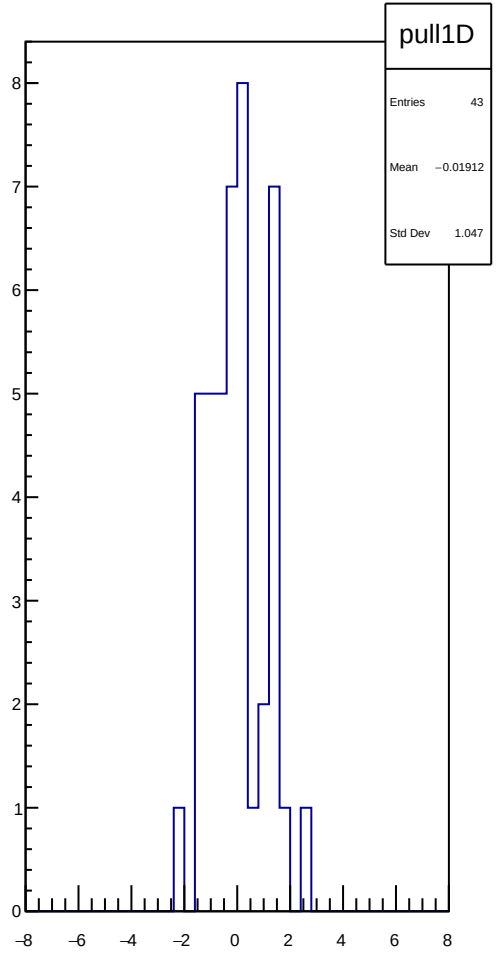

asym_atr1_dit_correction_rms vs run
χ² / ndf 2822 / 42
p0 516.3 ± 0.5534
580
560
540
520
500
480
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

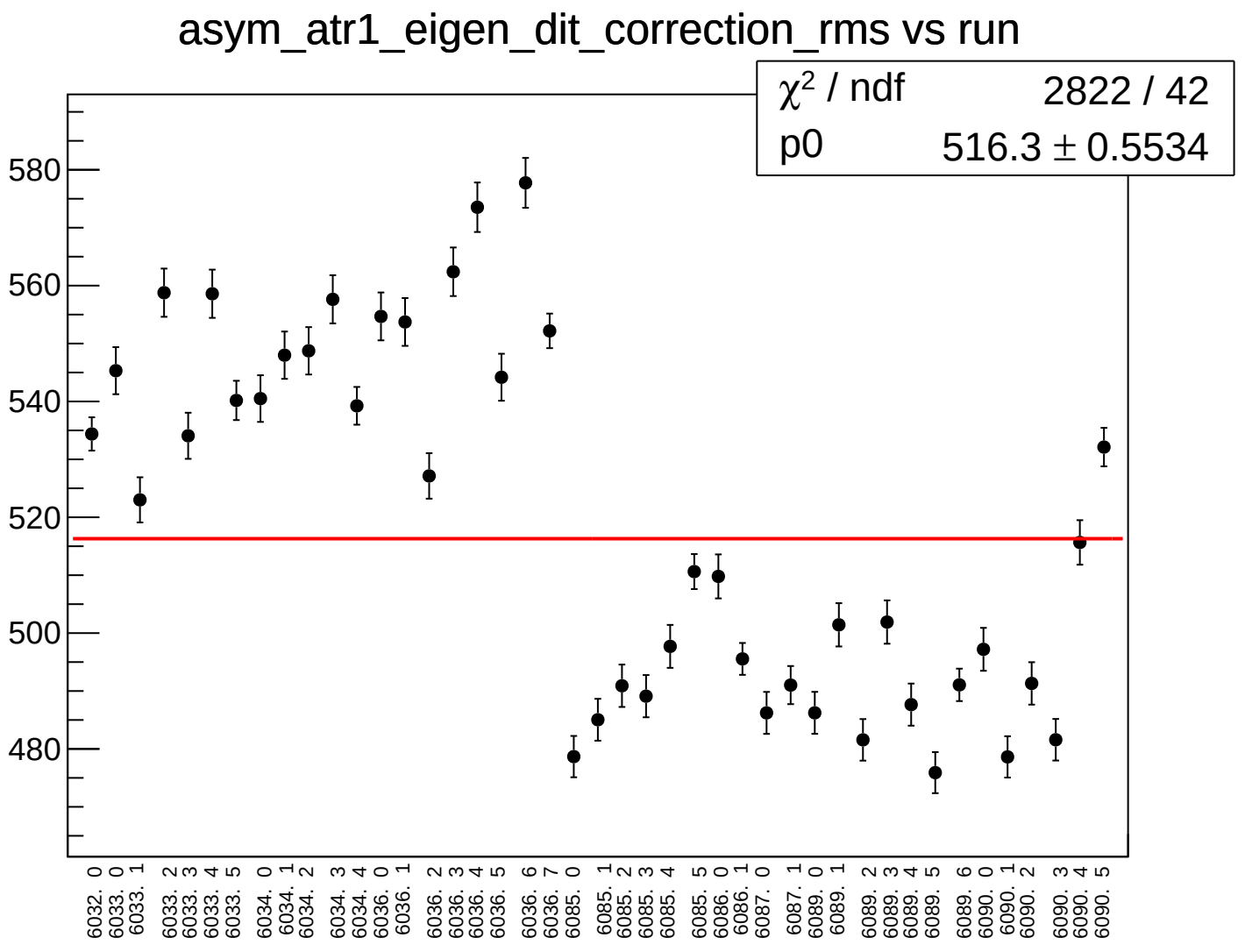

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 27.06 / 42
p0 −5691 ± 4246
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −353.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

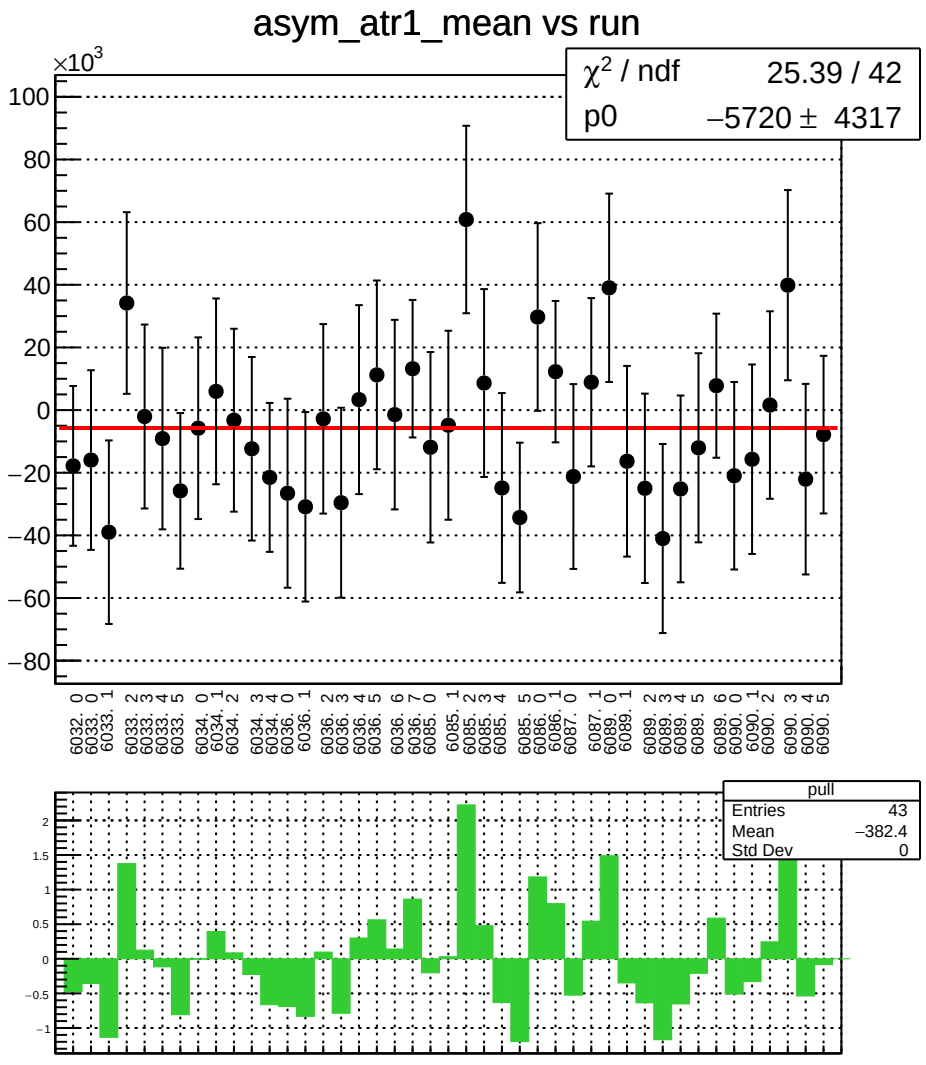

pull1D
Entries 43
Mean −0.00379
Std Dev 0.7933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

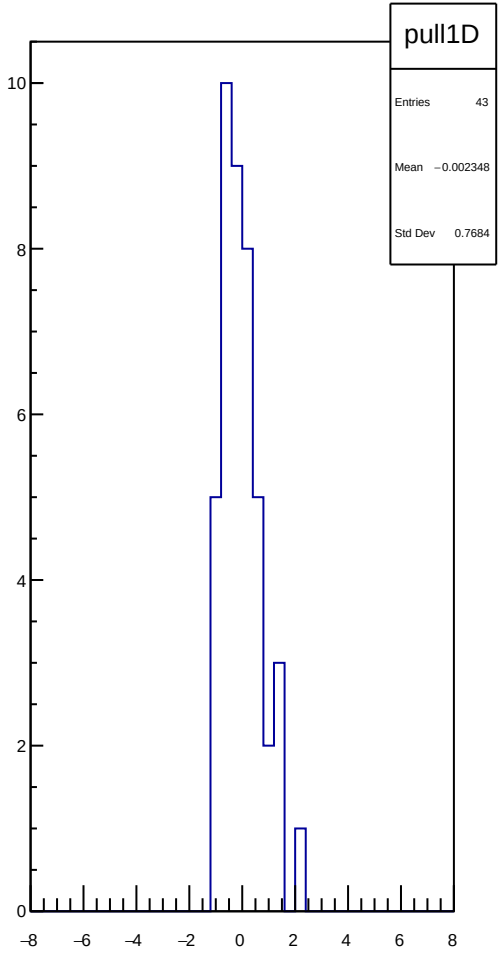

eigen_dit_asym_atr1_rms vs run
χ² / ndf 1080 / 42
p0 2804 ± 3.002
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

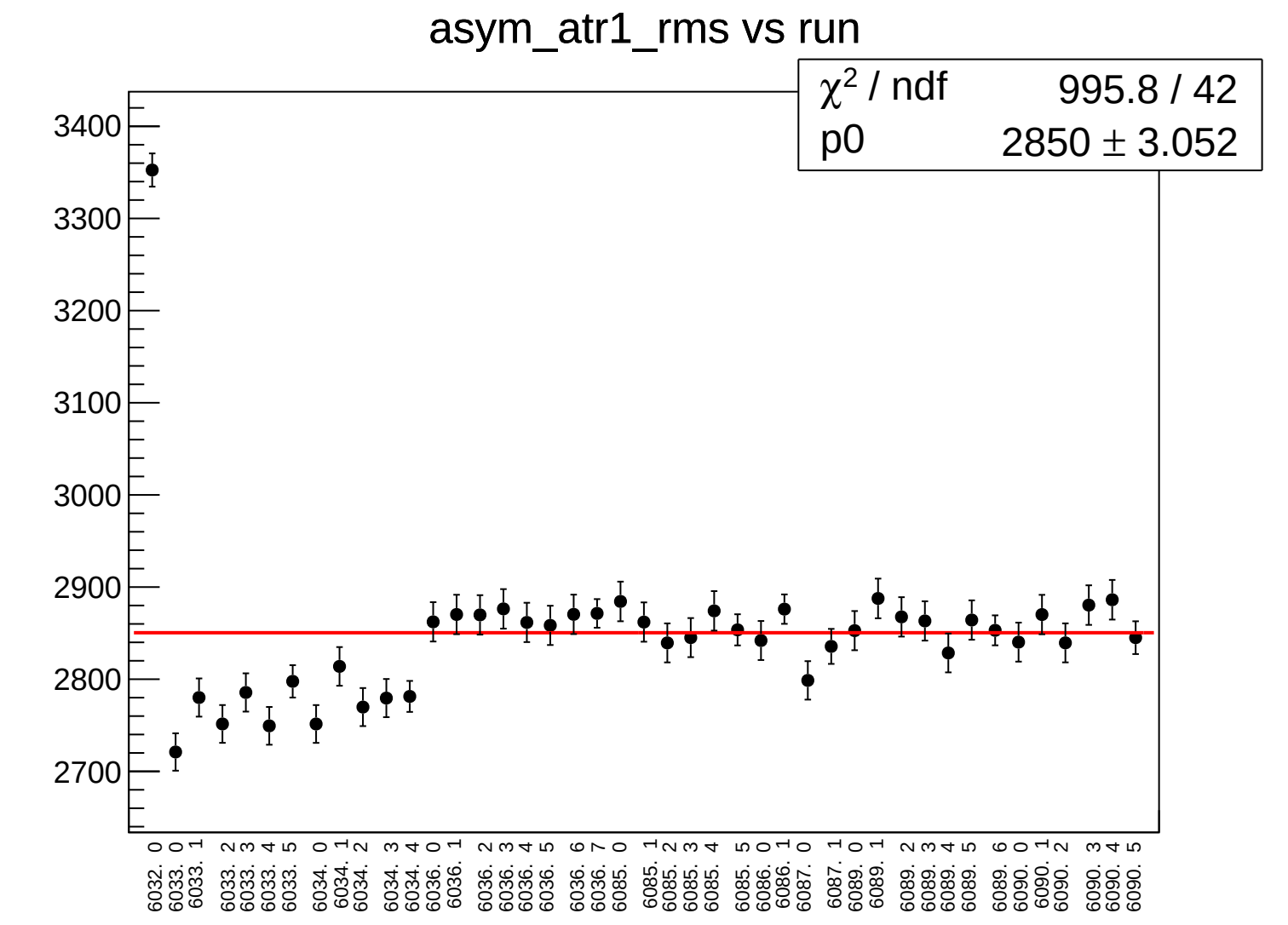

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 47.16 / 42
p0 164.4 ± 782.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −108.7
Std Dev 0
2
1
0
−1
−2

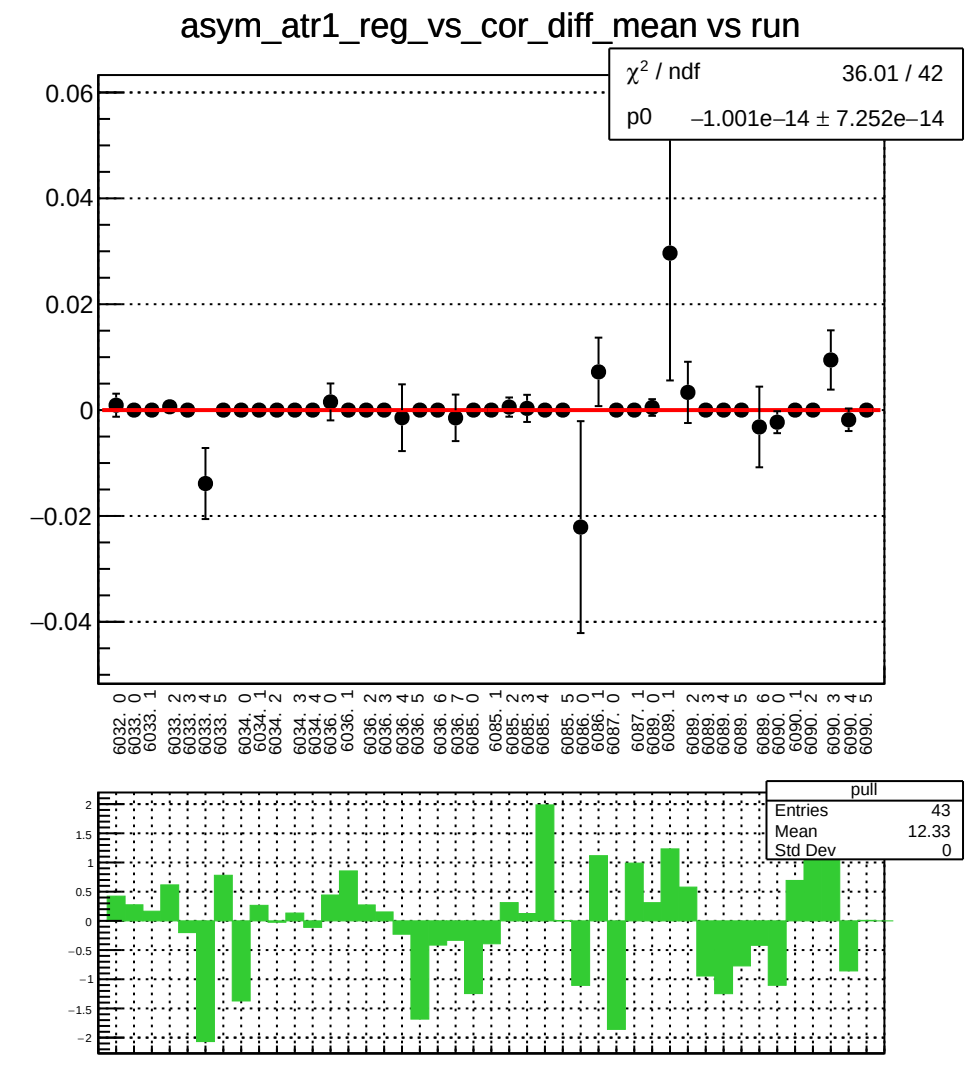

pull1D
Entries 43
Mean −0.01912
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

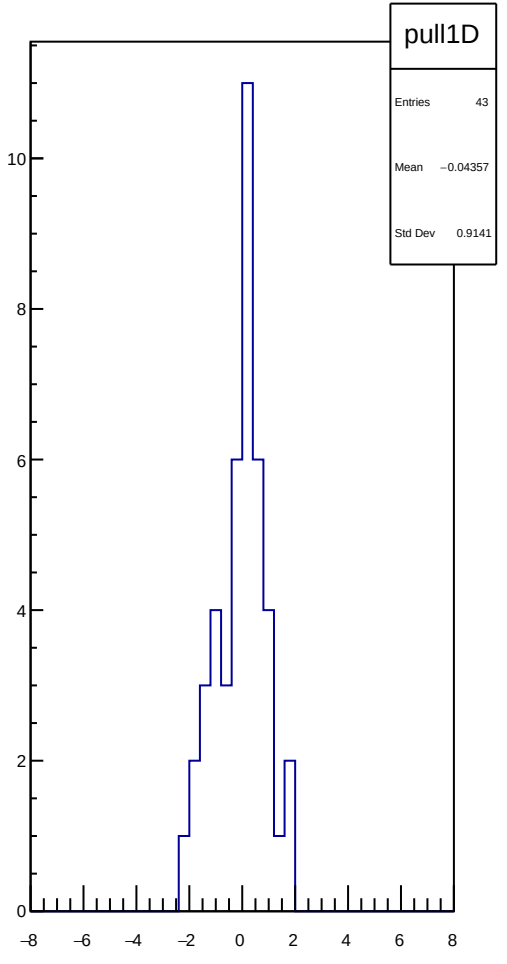

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2822 / 42
p0 516.3 ± 0.5534
580
560
540
520
500
480
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

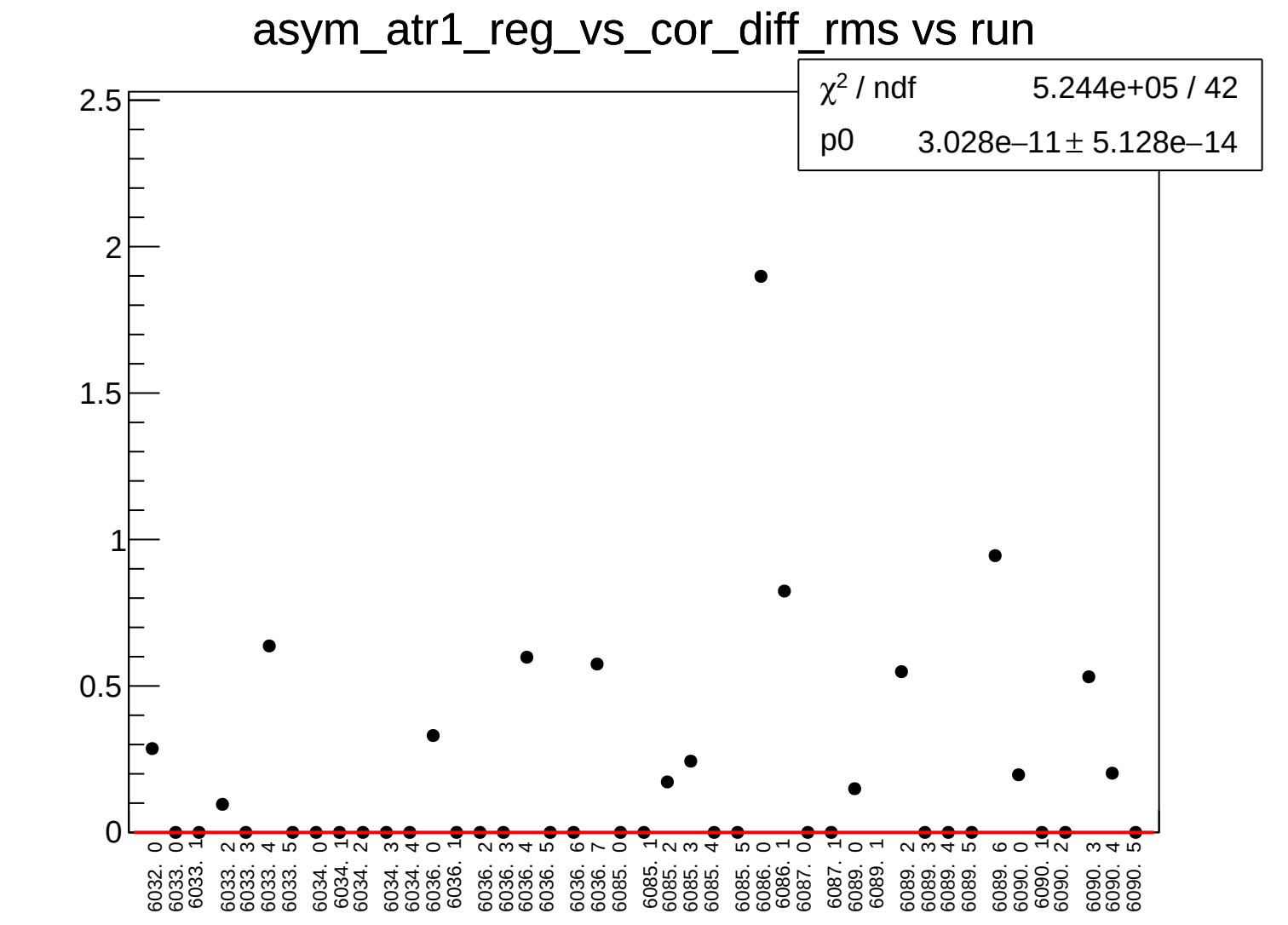

asym_atr1_mean vs run
×10^3
χ^2 / ndf 25.39 / 42
p0 −5720 ± 4317
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −382.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

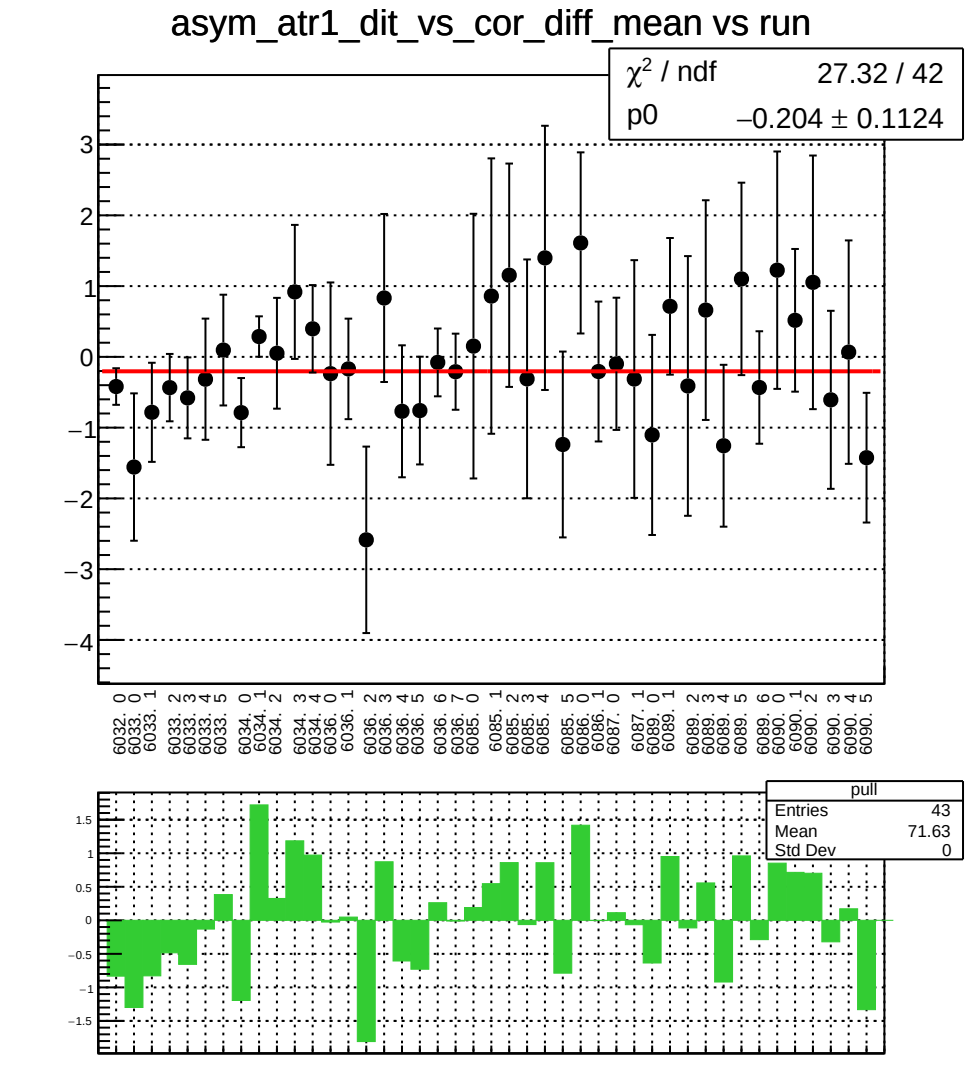

pull1D
Entries 43
Mean −0.002348
Std Dev 0.7684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

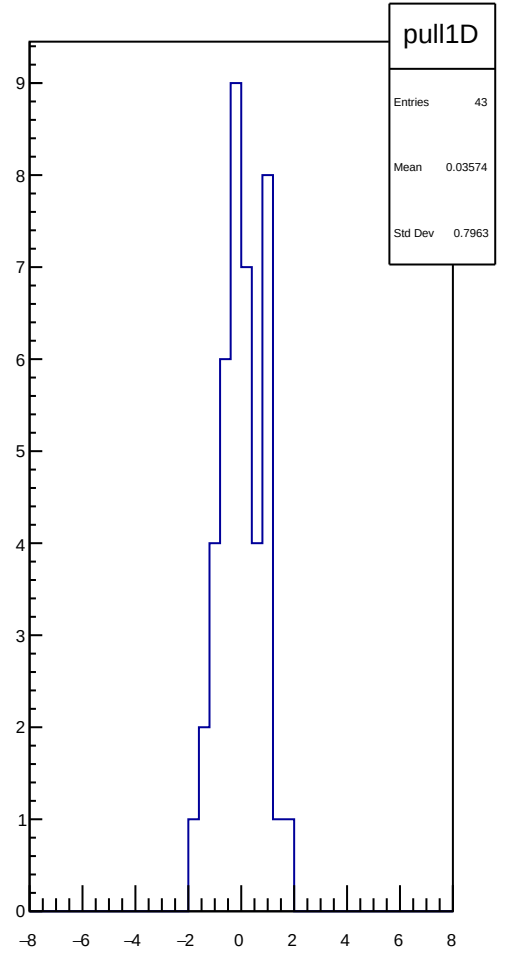

asym_atr1_rms vs run
χ² / ndf 995.8 / 42
p0 2850 ± 3.052
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

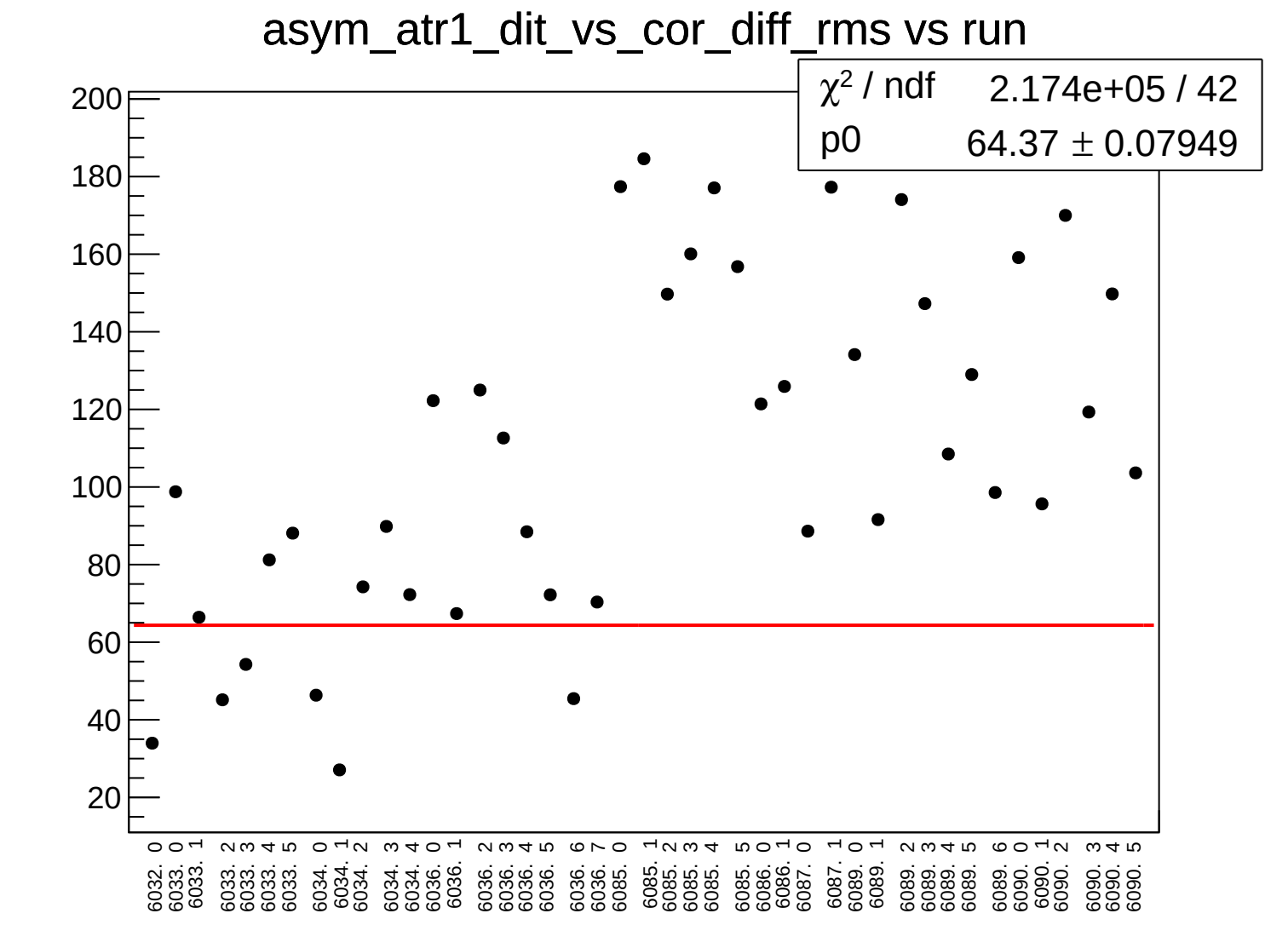

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 36.01 / 42
p0 −1.001e−14 ± 7.252e−14
0.06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

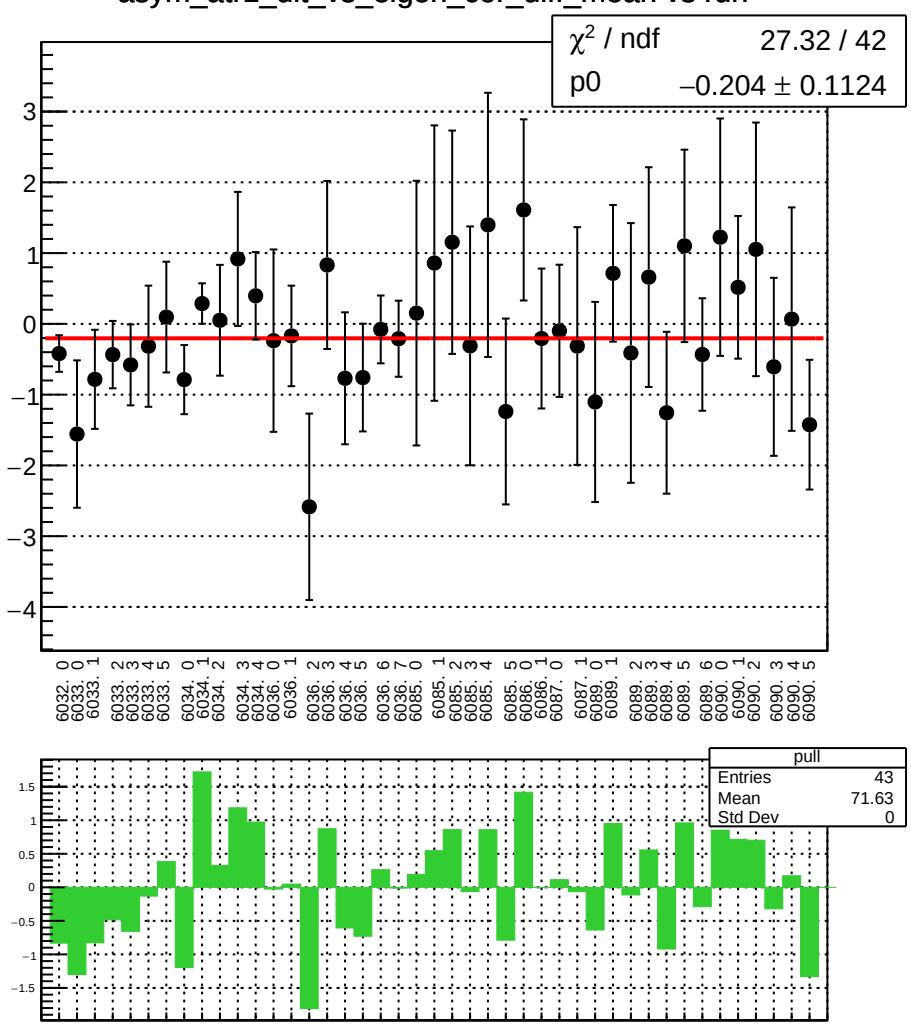

pull1D
Entries 43
Mean −0.04357
Std Dev 0.9141
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

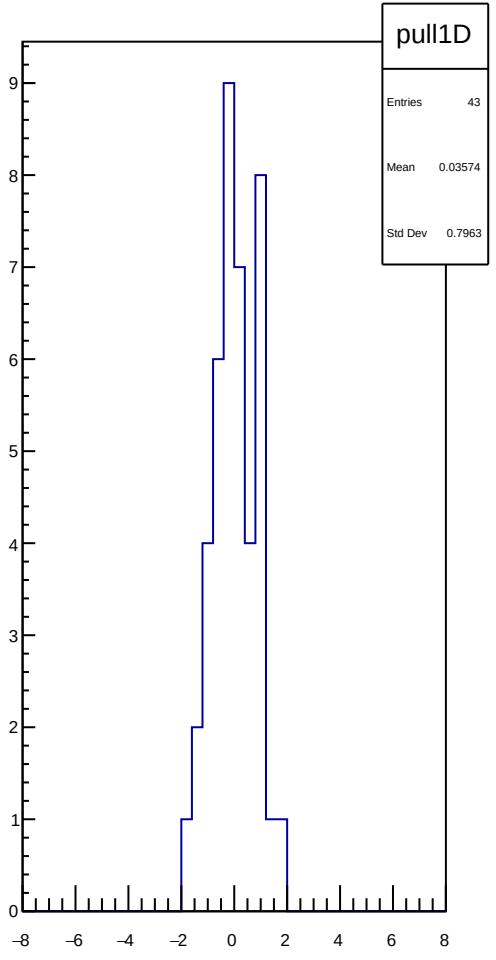

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.244e+05 / 42
p0 3.028e−11 ± 5.128e−14
2.5
2
1.5
1
0.5
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

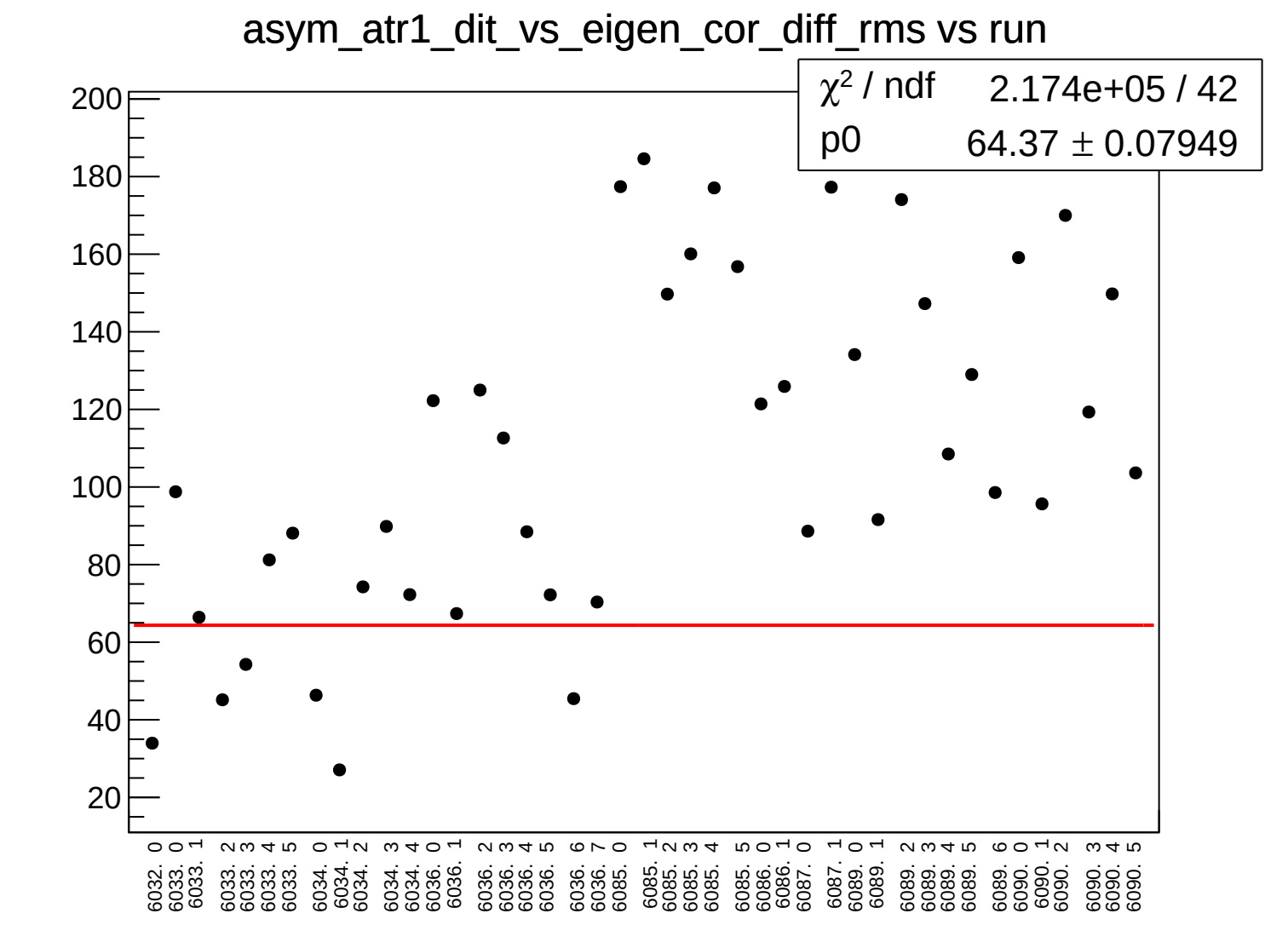

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 27.32 / 42
p0 −0.204 ± 0.1124
pull
Entries 43
Mean 71.63
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

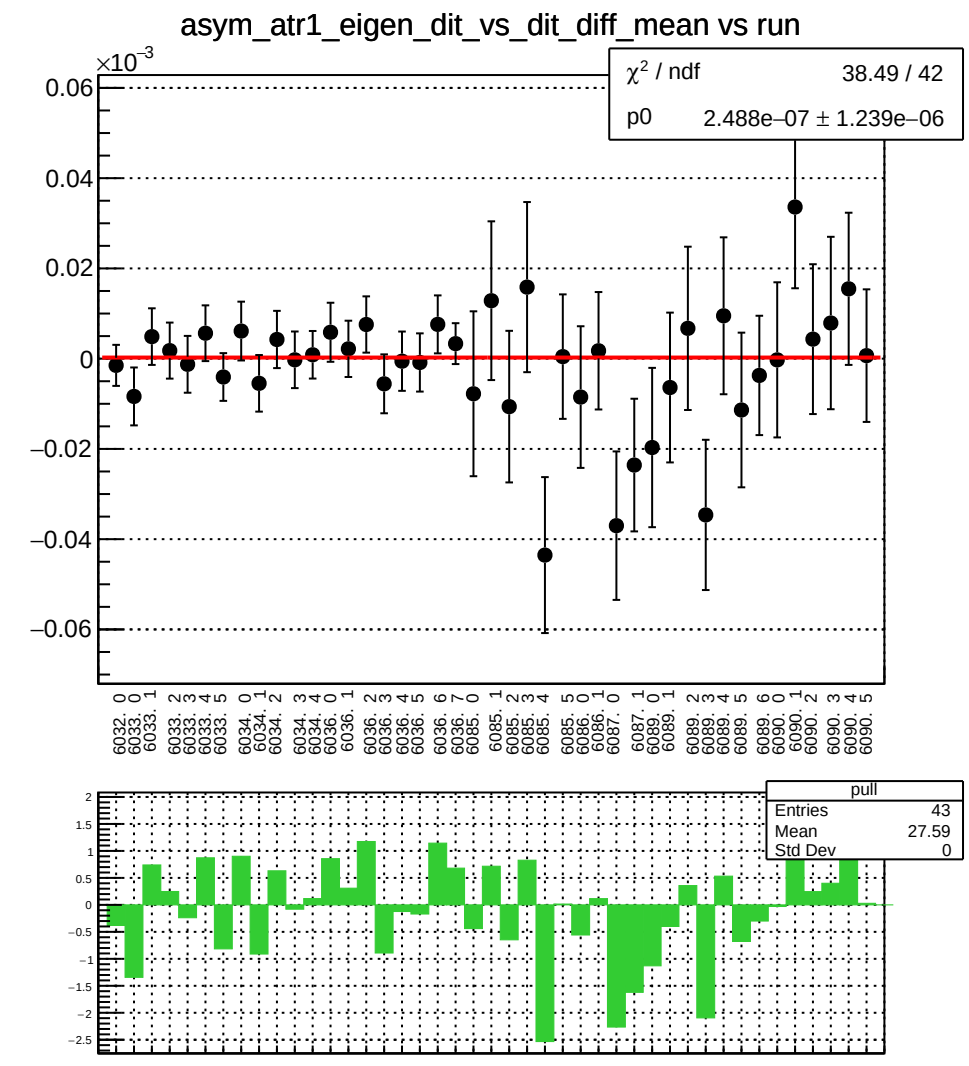

pull1D
Entries 43
Mean 0.03574
Std Dev 0.7963

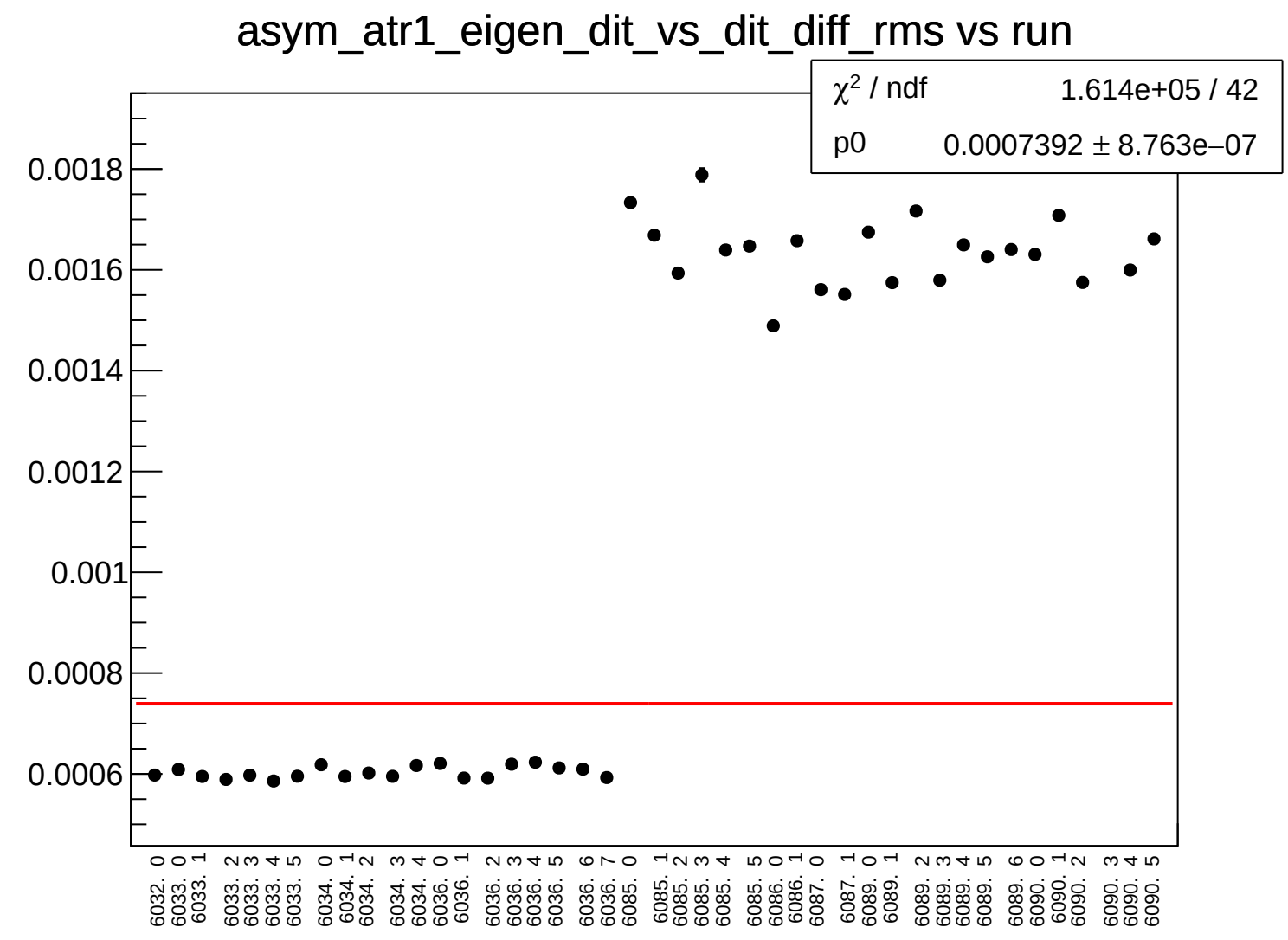

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 42
p0 64.37 ± 0.07949
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

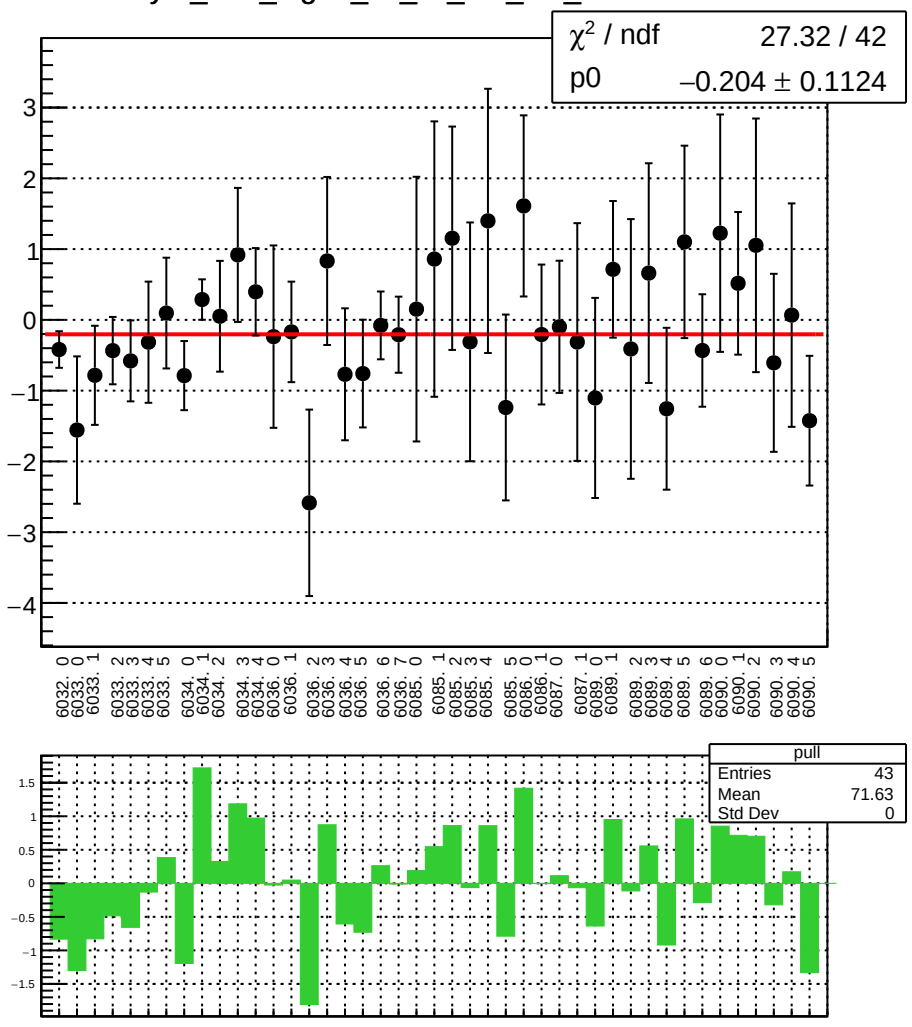

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.32 / 42
p0 −0.204 ± 0.1124
pull
Entries 43
Mean 71.63
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

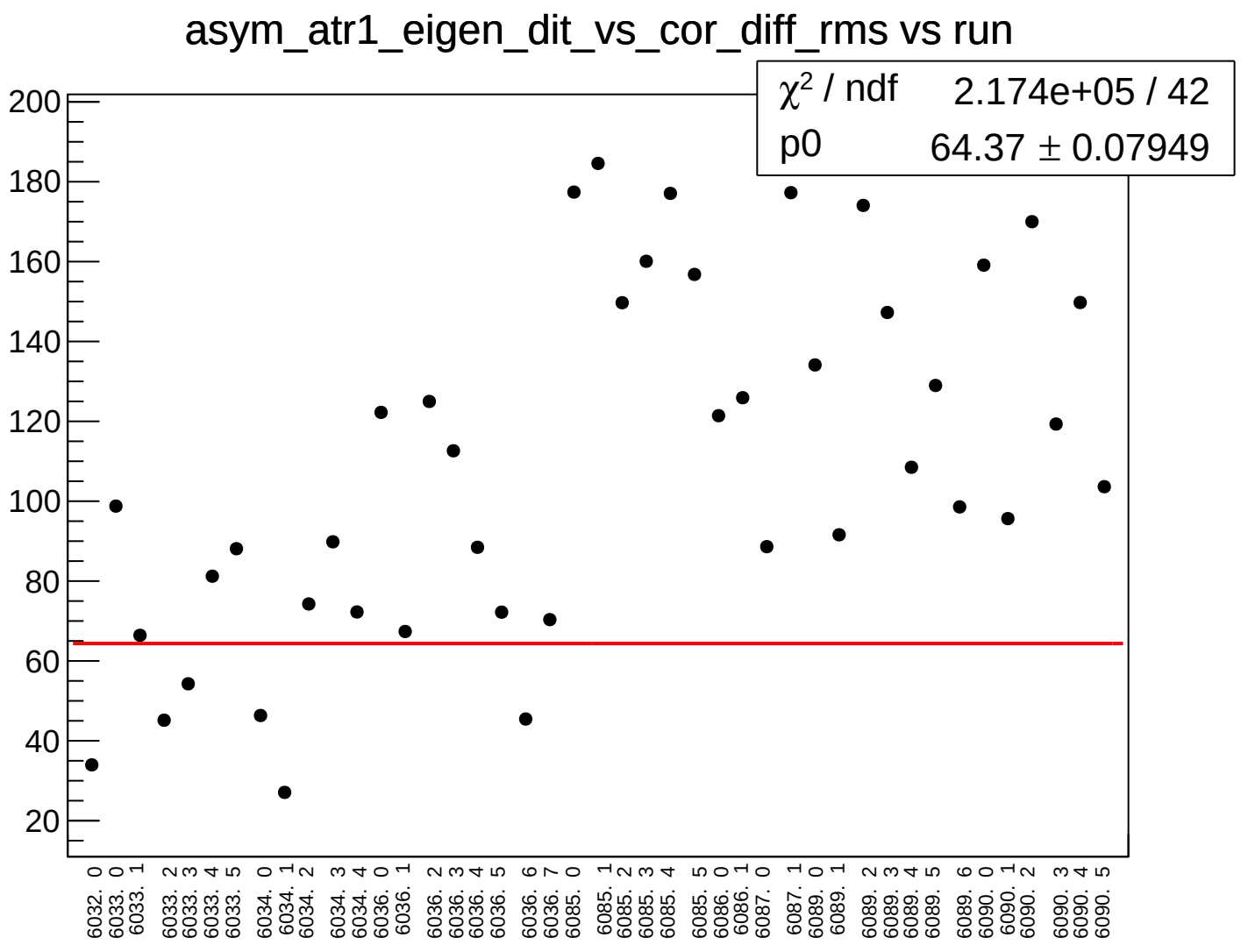

pull1D
Entries 43
Mean 0.03574
Std Dev 0.7963

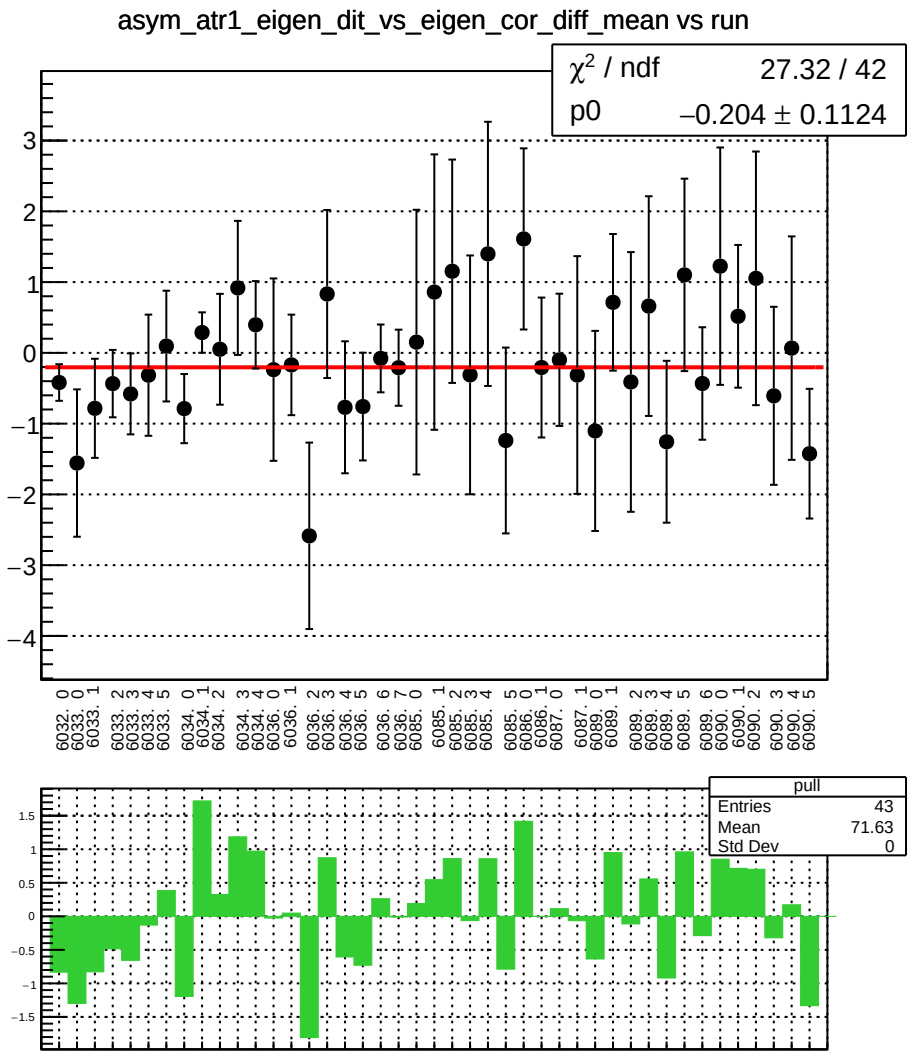

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 42
p0 64.37 ± 0.07949
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

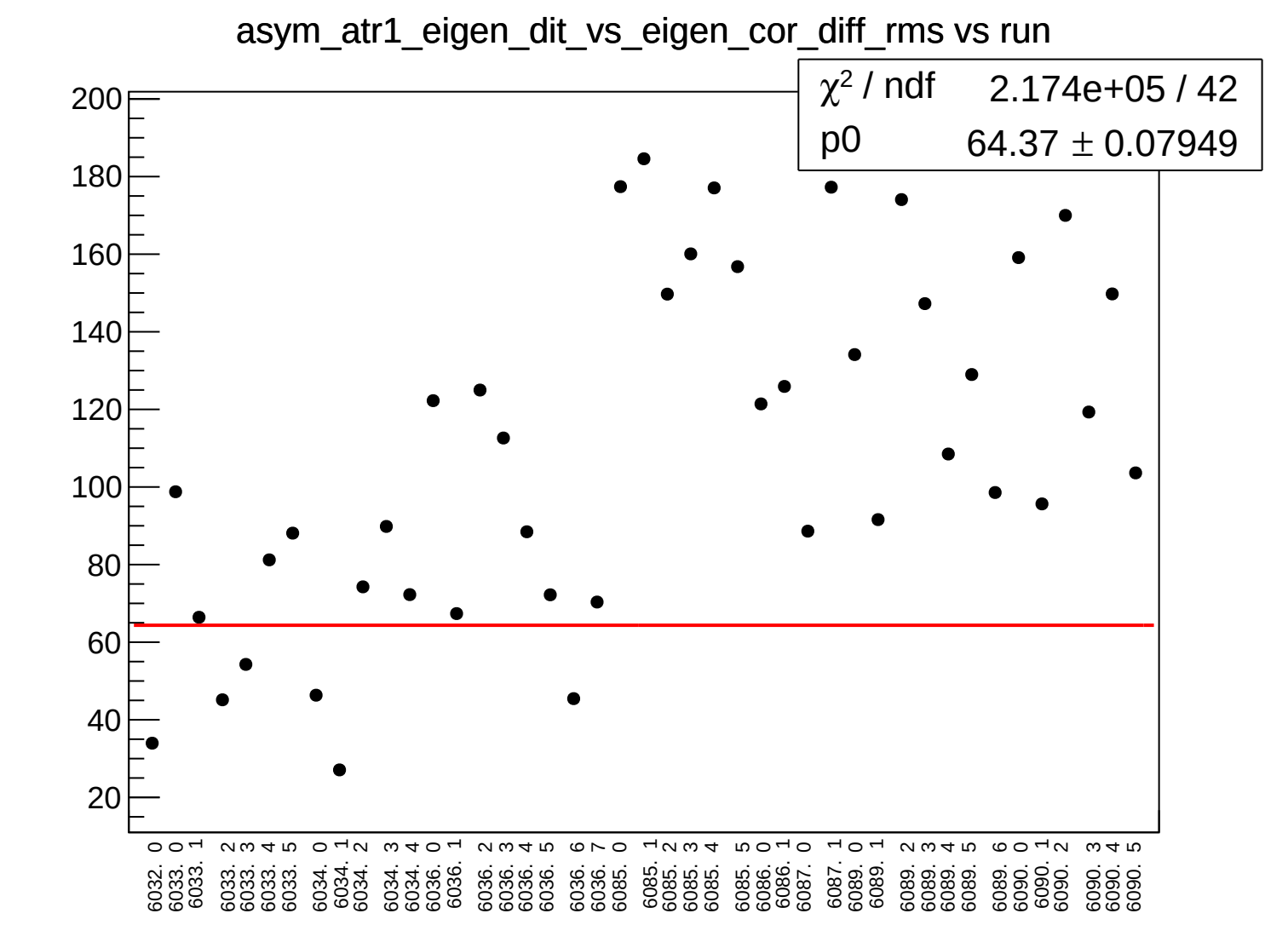

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.49 / 42
p0 2.488e−07 ± 1.239e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 27.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.09254
Std Dev 0.9415
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

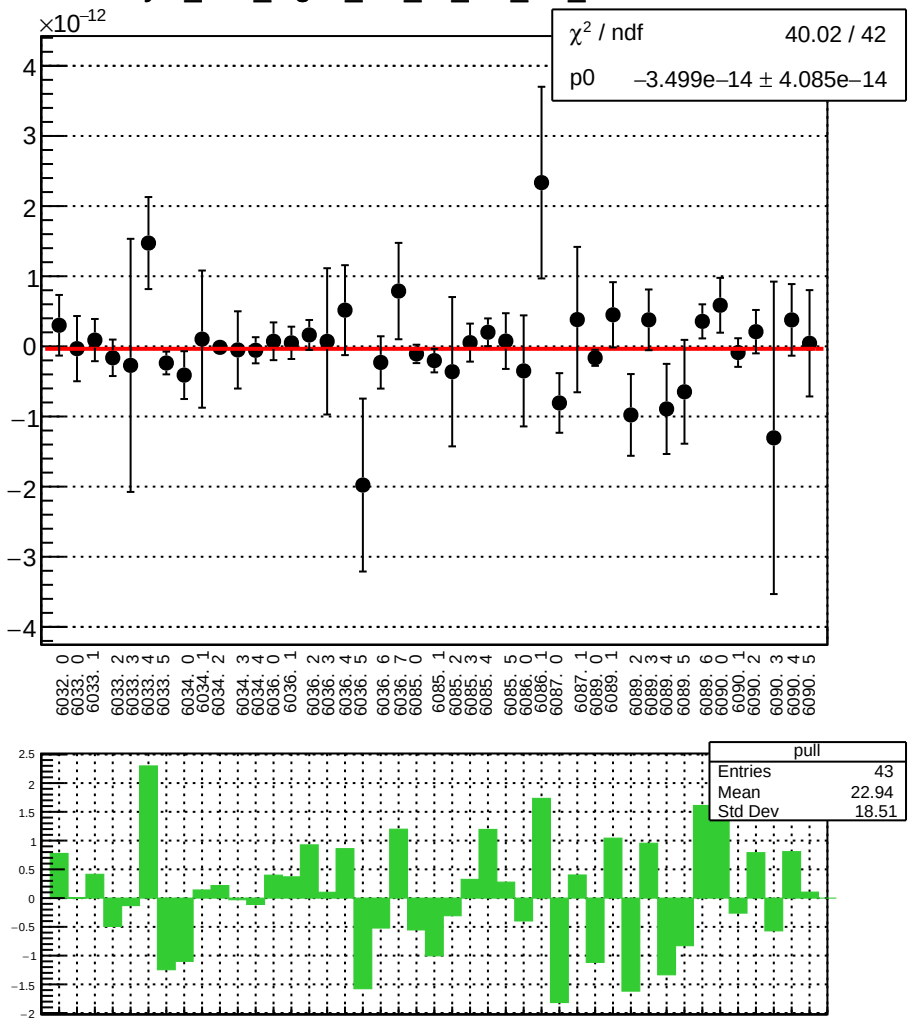

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.614e+05 / 42
p0 0.0007392 ± 8.763e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

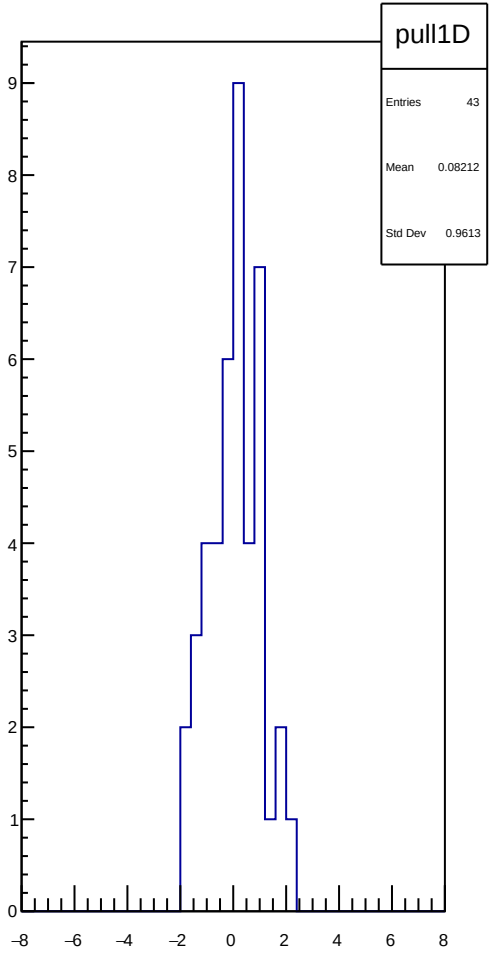

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.32 / 42
p0 −0.204 ± 0.1124
pull
Entries 43
Mean 71.63
Std Dev 0
pull1D
Entries 43
Mean 0.03574
Std Dev 0.7963

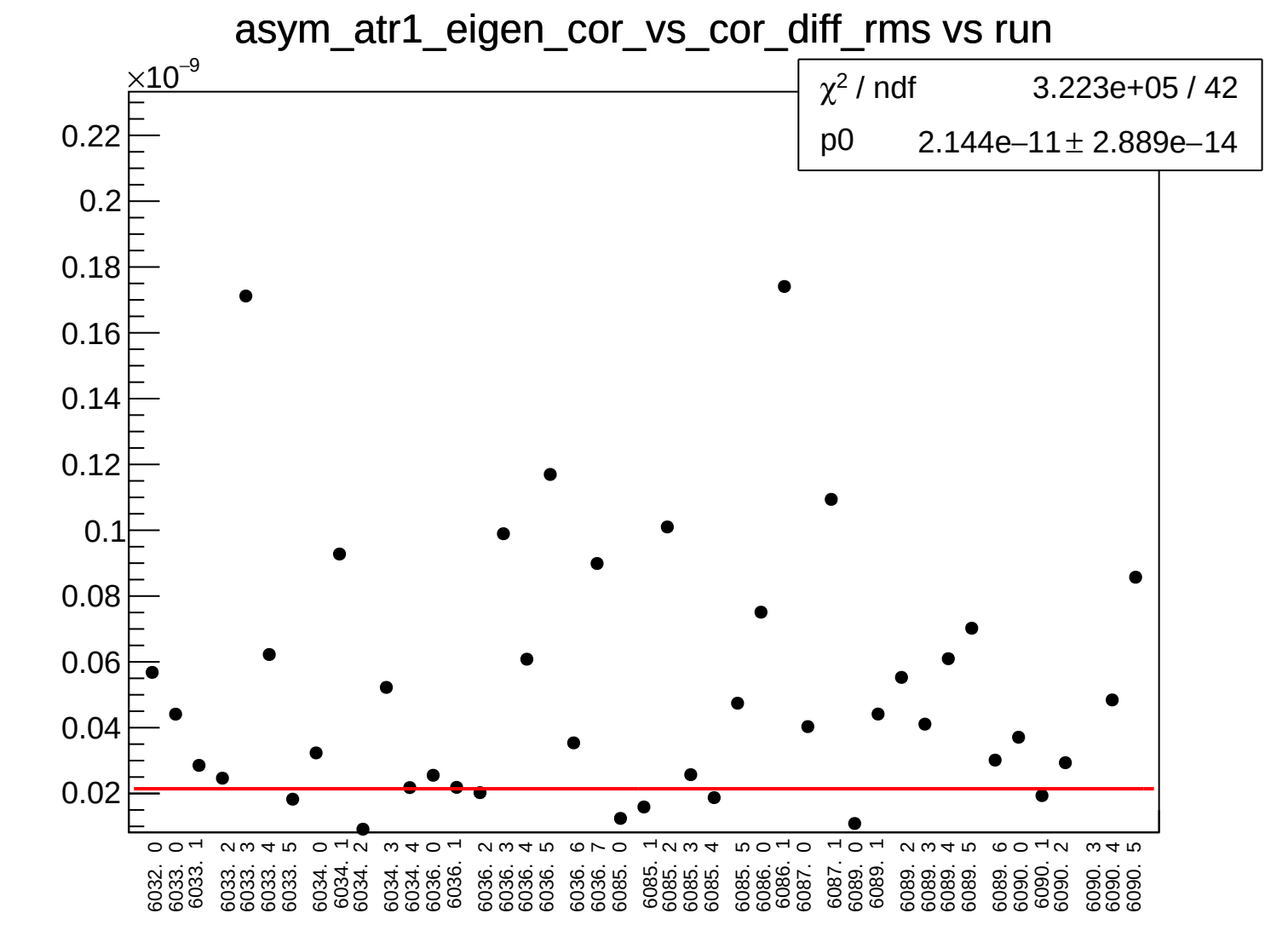

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 42
p0 64.37 ± 0.07949
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

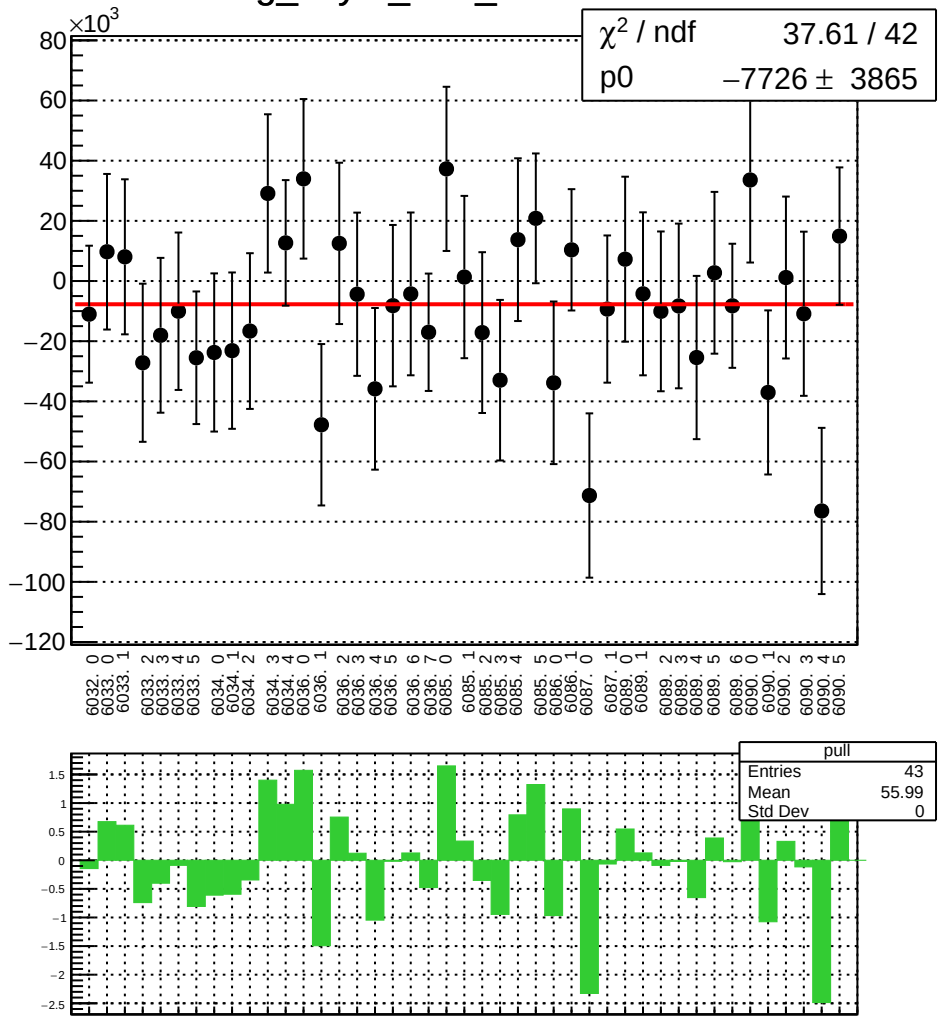

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.32 / 42
p0 −0.204 ± 0.1124
pull
Entries 43
Mean 71.63
Std Dev 0
pull1D
Entries 43
Mean 0.03574
Std Dev 0.7963

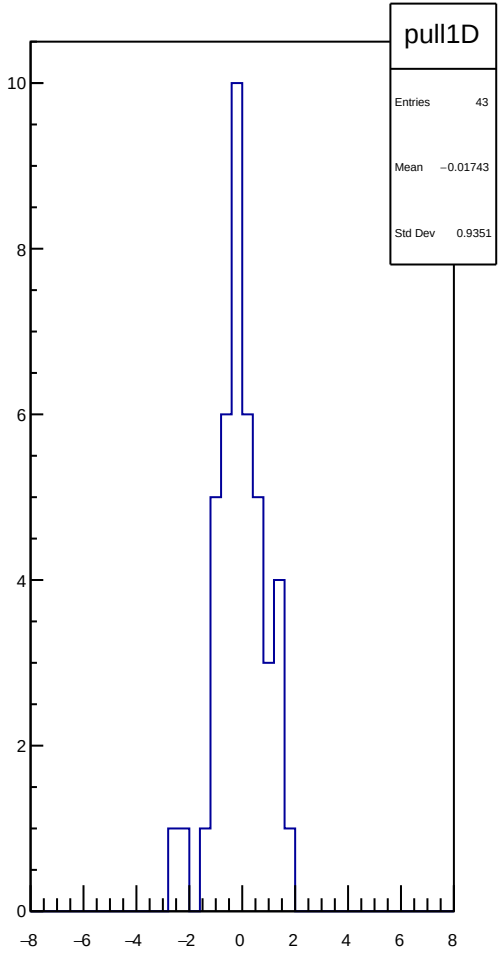

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 42
p0 64.37 ± 0.07949
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

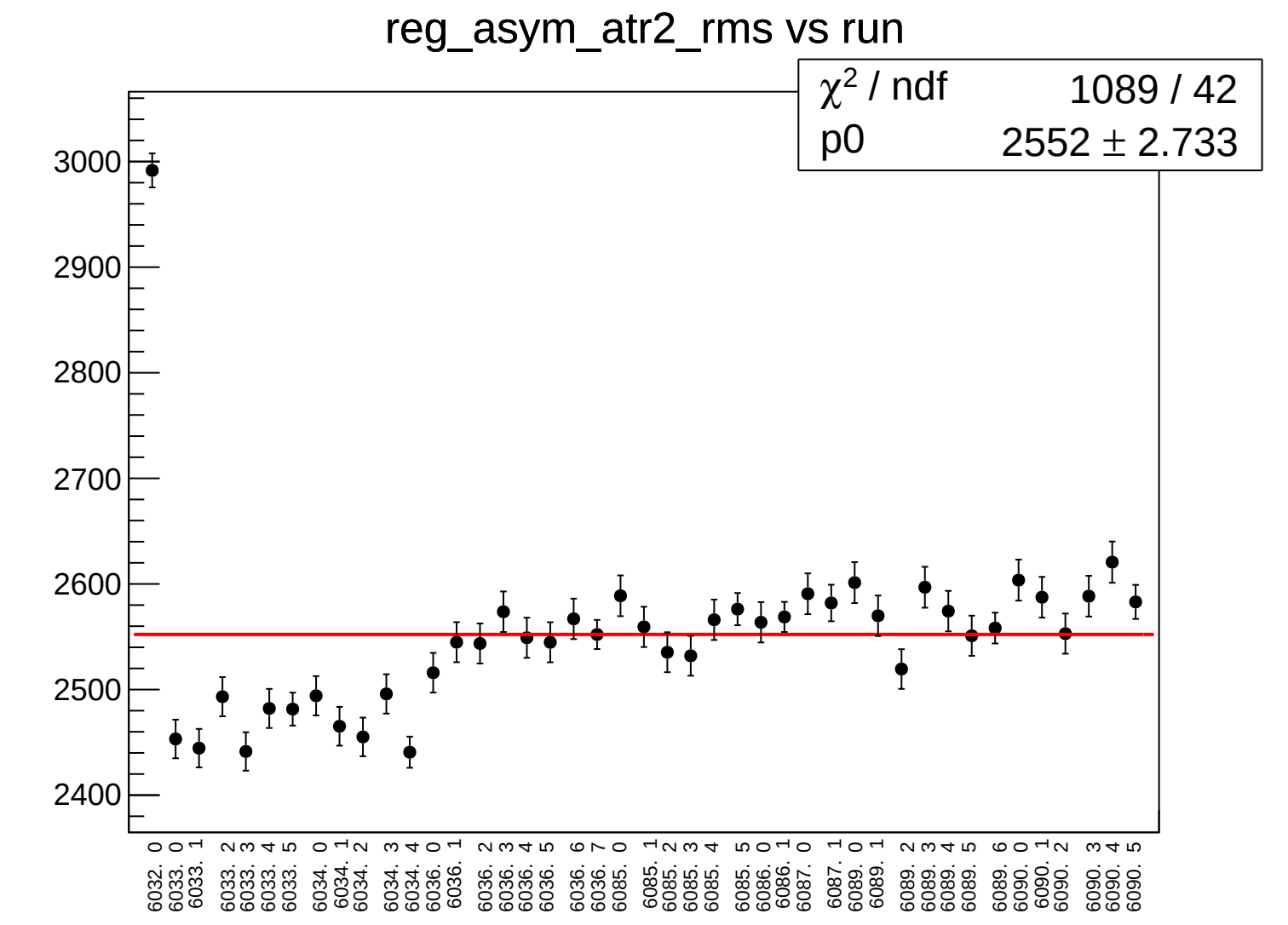

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.02 / 42
p0 −3.499e−14 ± 4.085e−14
pull
Entries 43
Mean 22.94
Std Dev 18.51

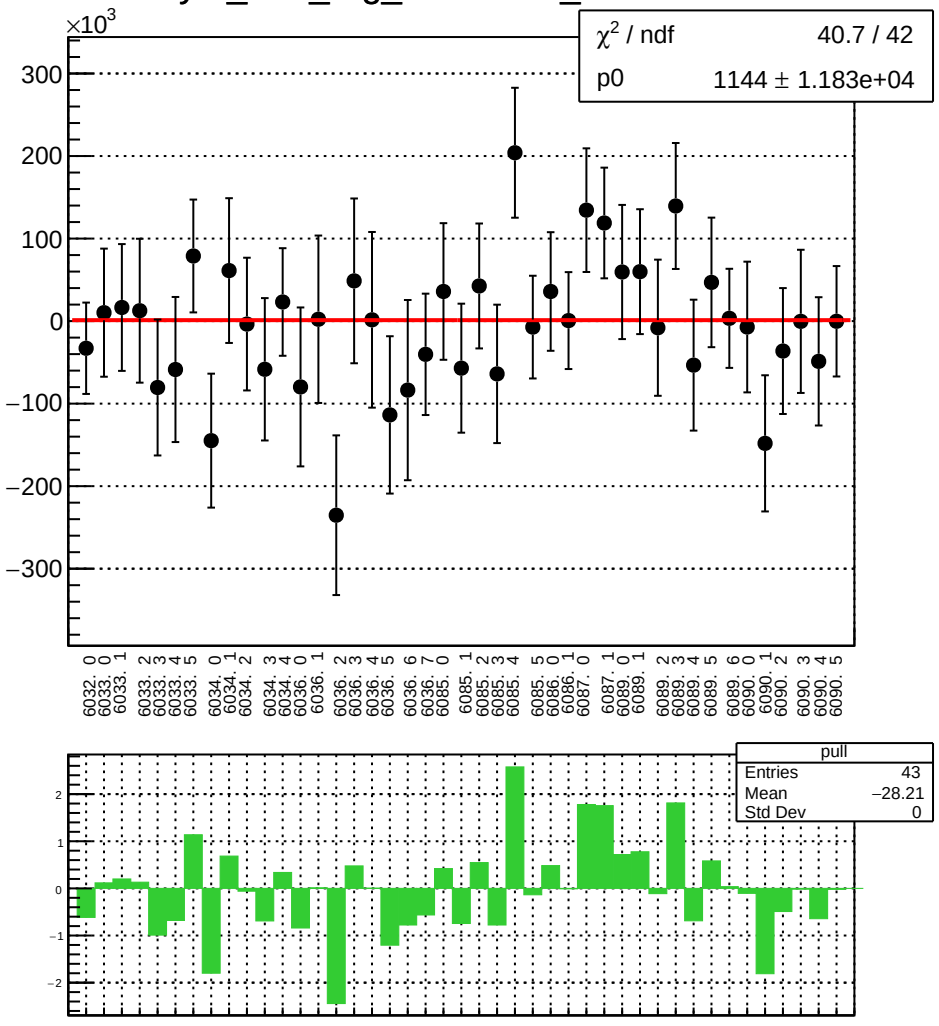

pull1D
Entries 43
Mean 0.08212
Std Dev 0.9613

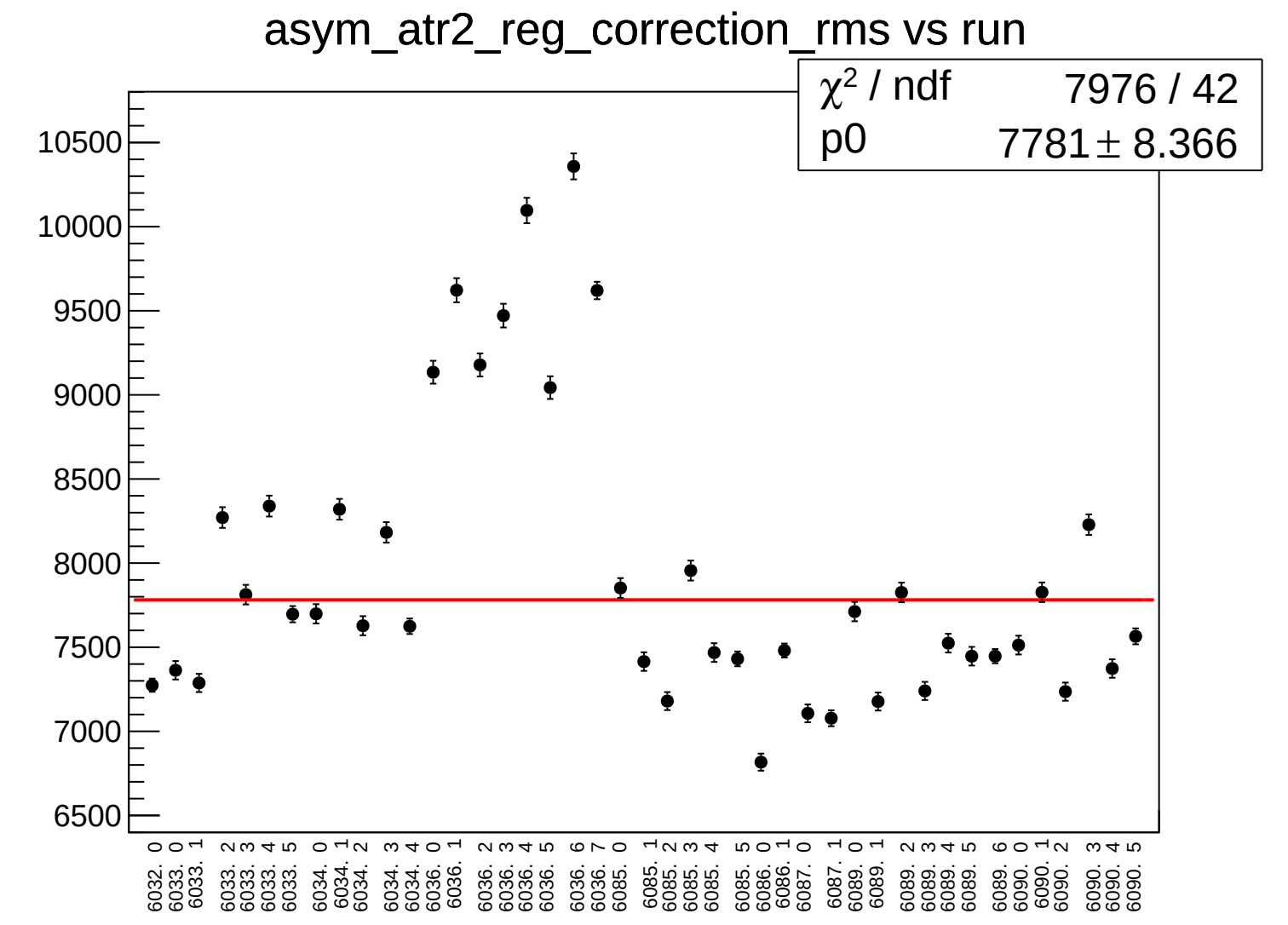

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.223e+05 / 42
p0 2.144e−11 ± 2.889e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

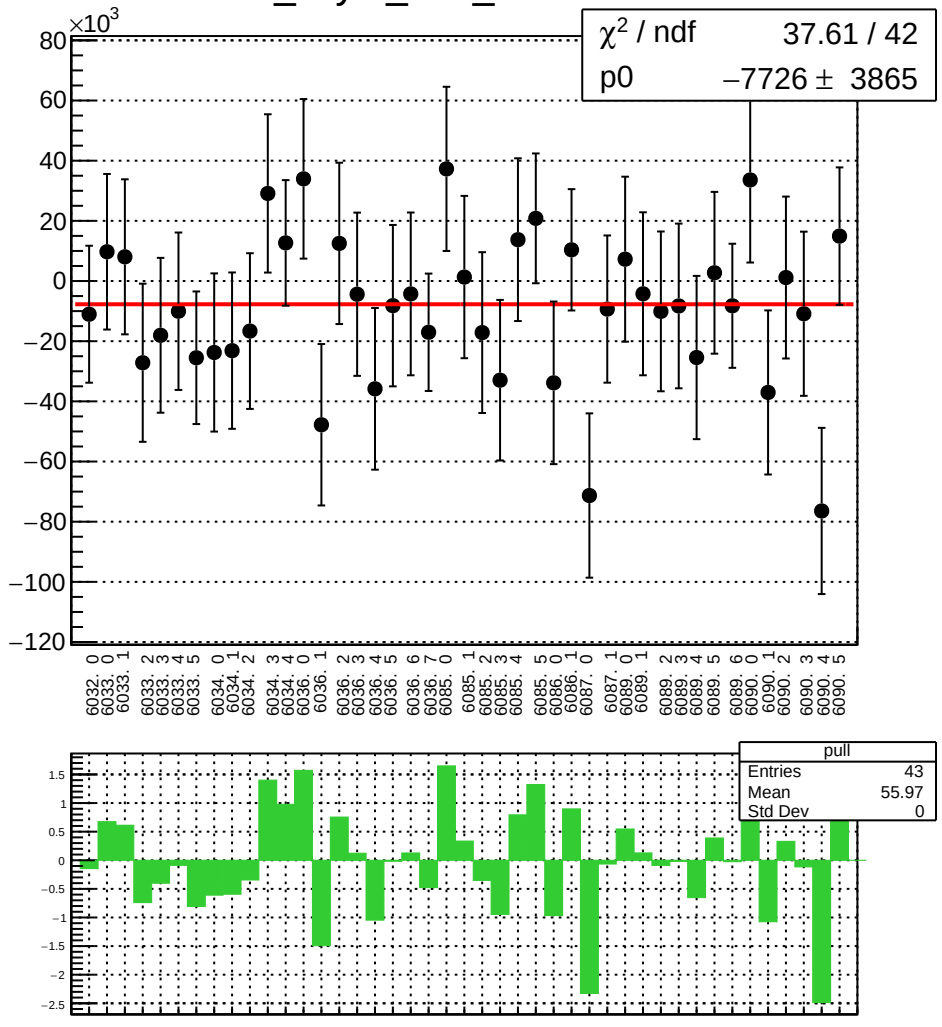

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 37.61 / 42
p0 −7726 ± 3865
pull
Entries 43
Mean 55.99
Std Dev 0

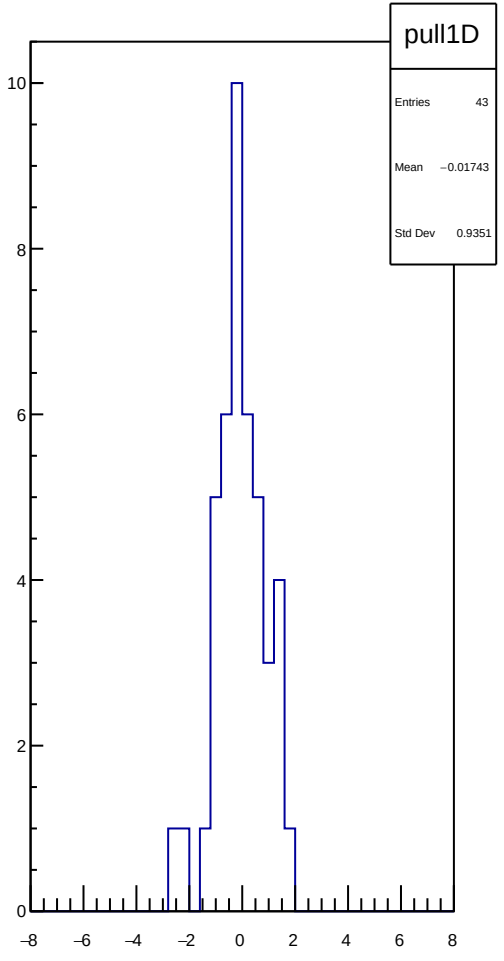

pull1D
Entries 43
Mean −0.01743
Std Dev 0.9351

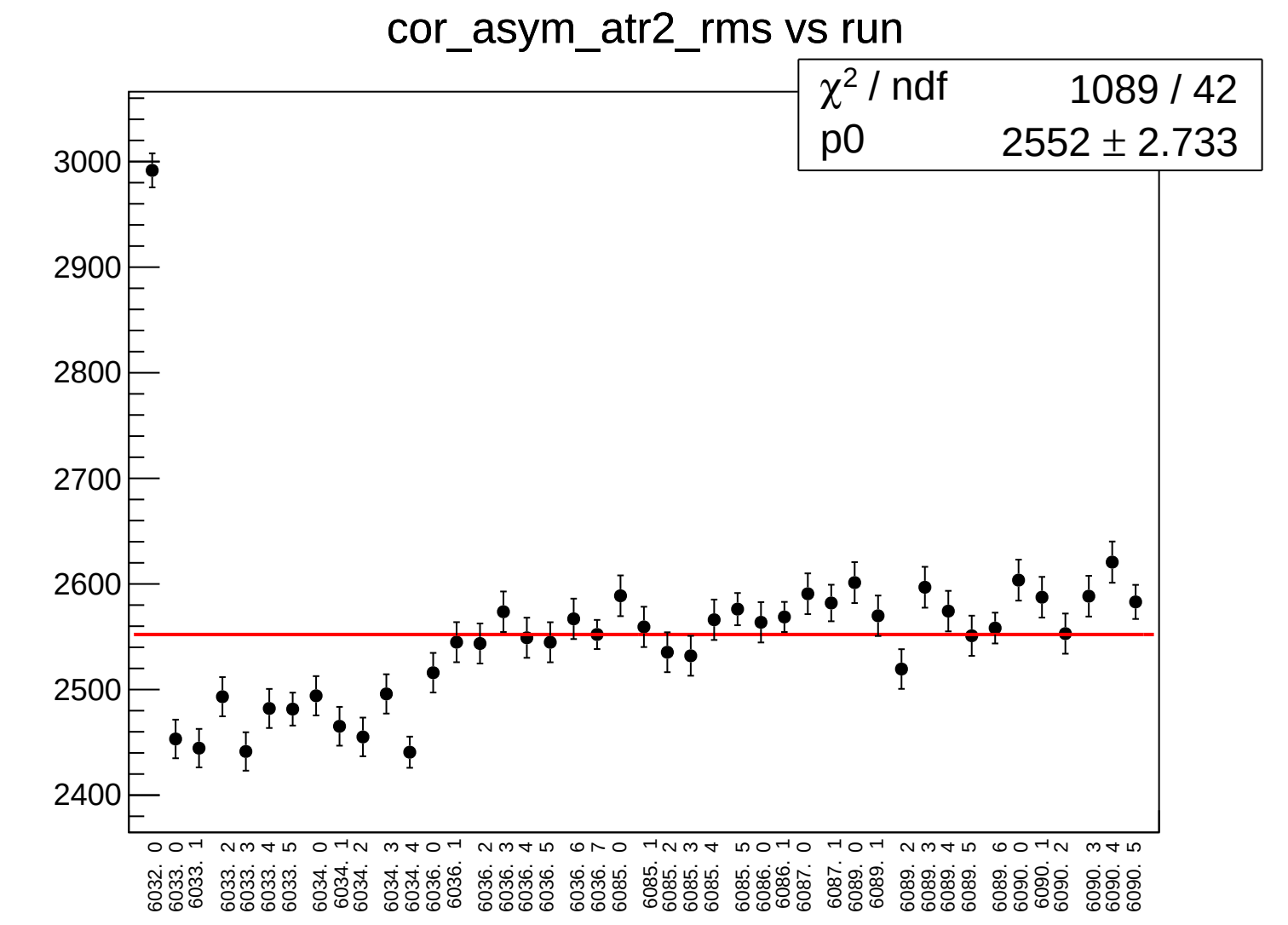

reg_asym_atr2_rms vs run
χ² / ndf 1089 / 42
p0 2552 ± 2.733
3000
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

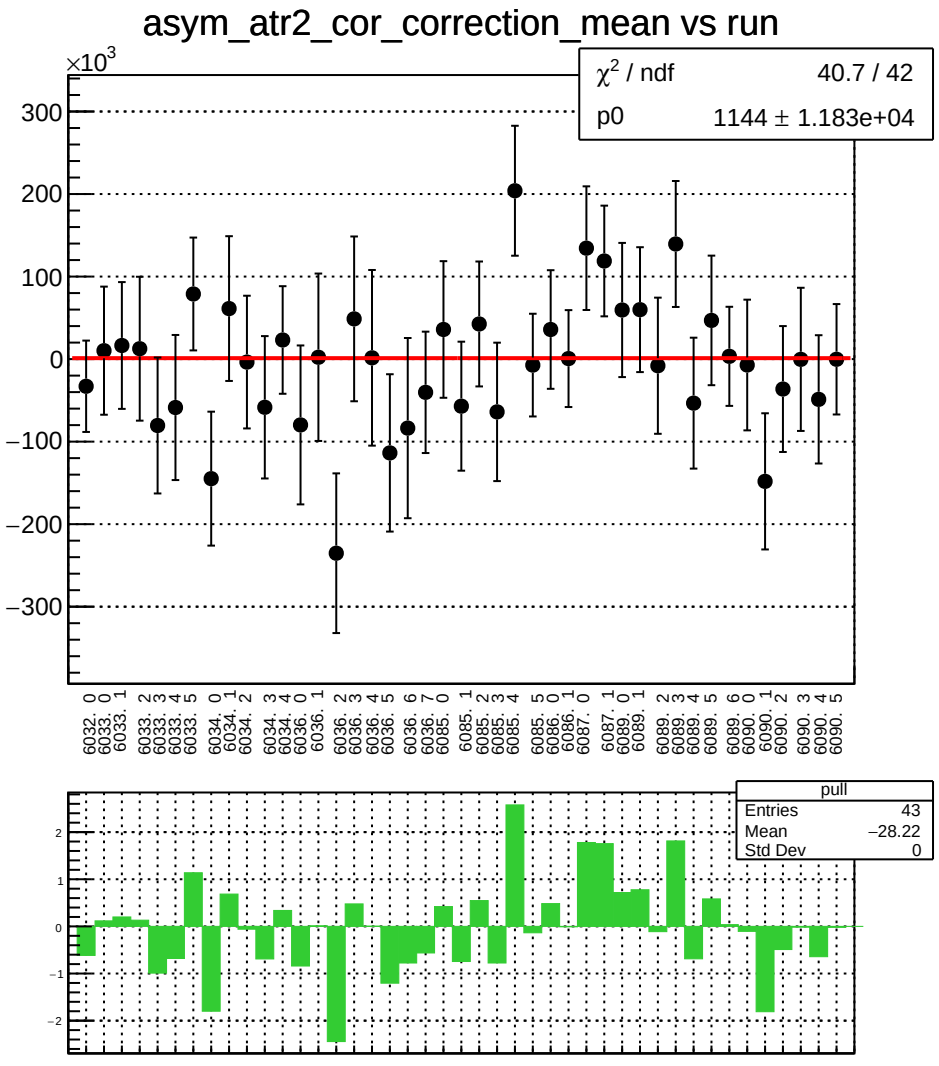

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 40.7 / 42
p0 1144 ± 1.183e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03769
Std Dev 0.9722
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

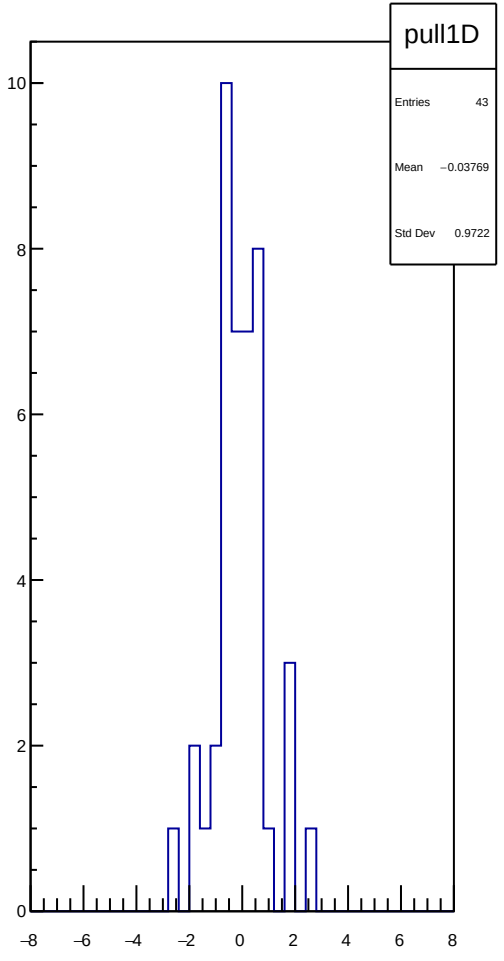

asym_atr2_reg_correction_rms vs run
χ² / ndf 7976 / 42
p0 7781 ± 8.366
10500
10000
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

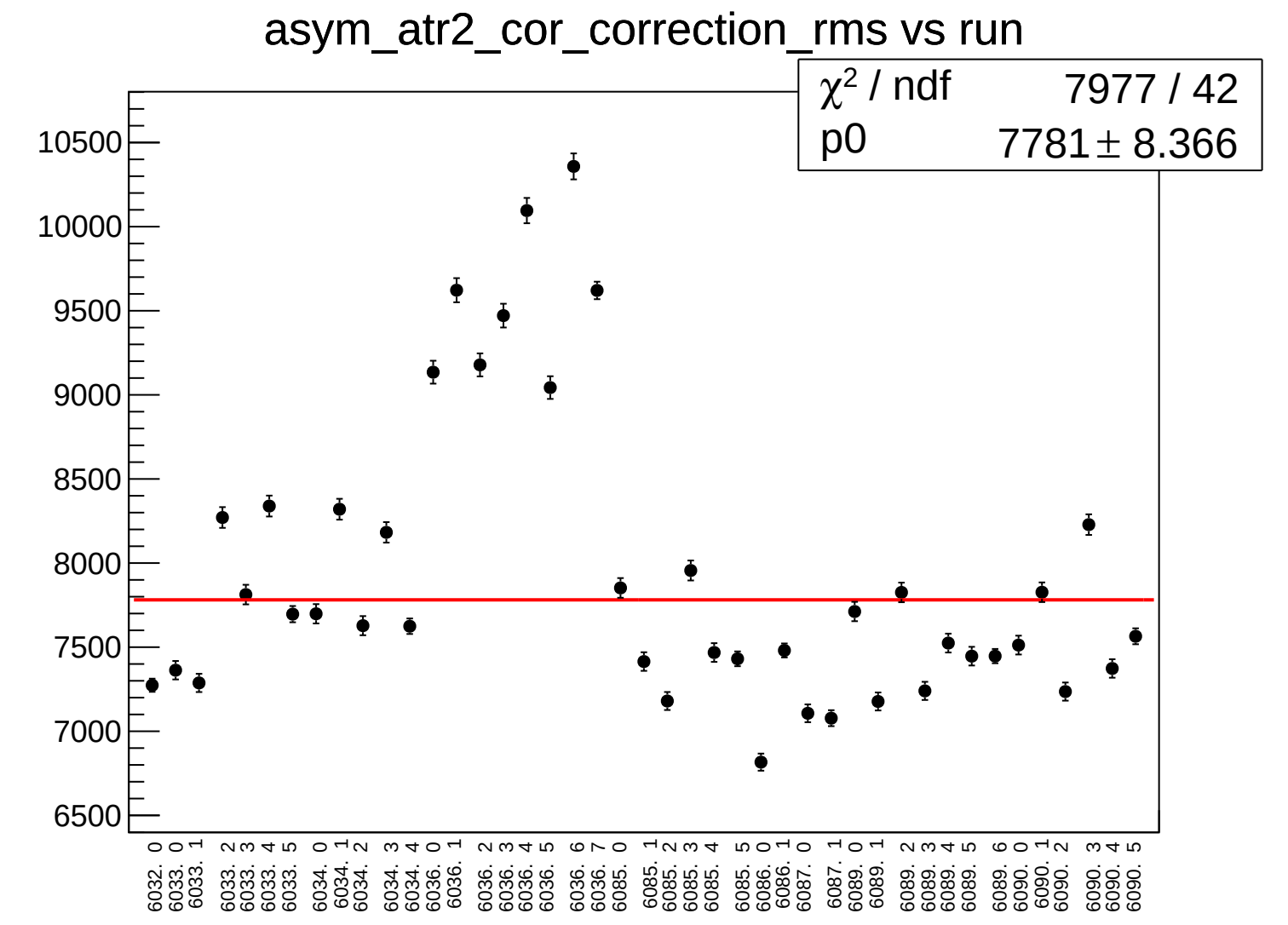

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 37.61 / 42
p0 −7726 ± 3865
pull
Entries 43
Mean 55.97
Std Dev 0

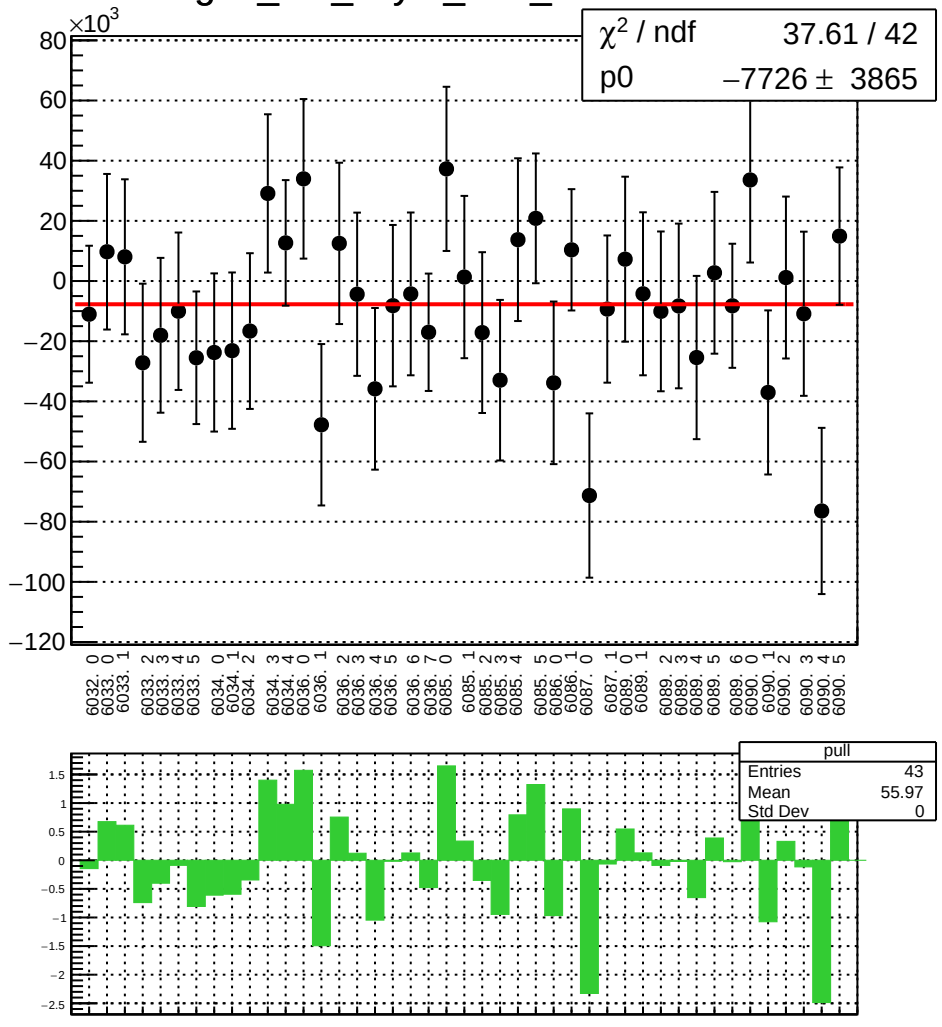

pull1D
Entries 43
Mean −0.01743
Std Dev 0.9351

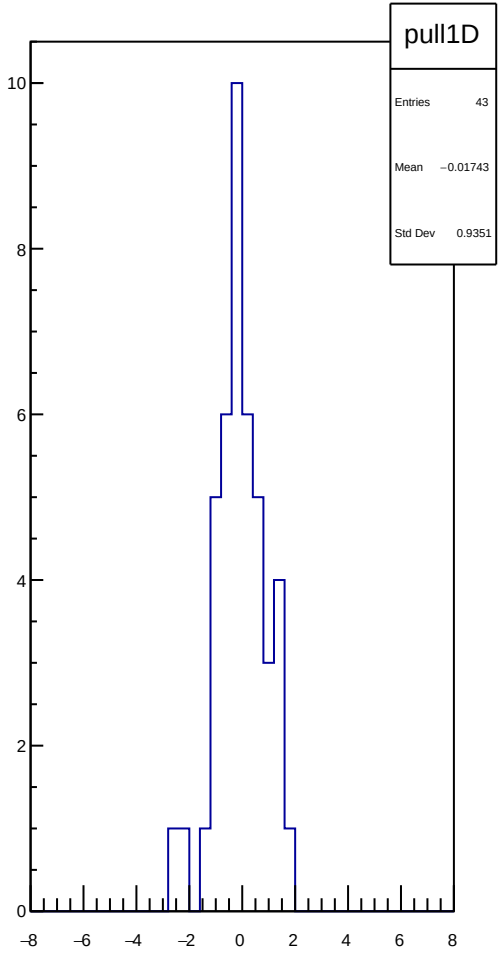

cor_asym_atr2_rms vs run
χ² / ndf 1089 / 42
p0 2552 ± 2.733
3000
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

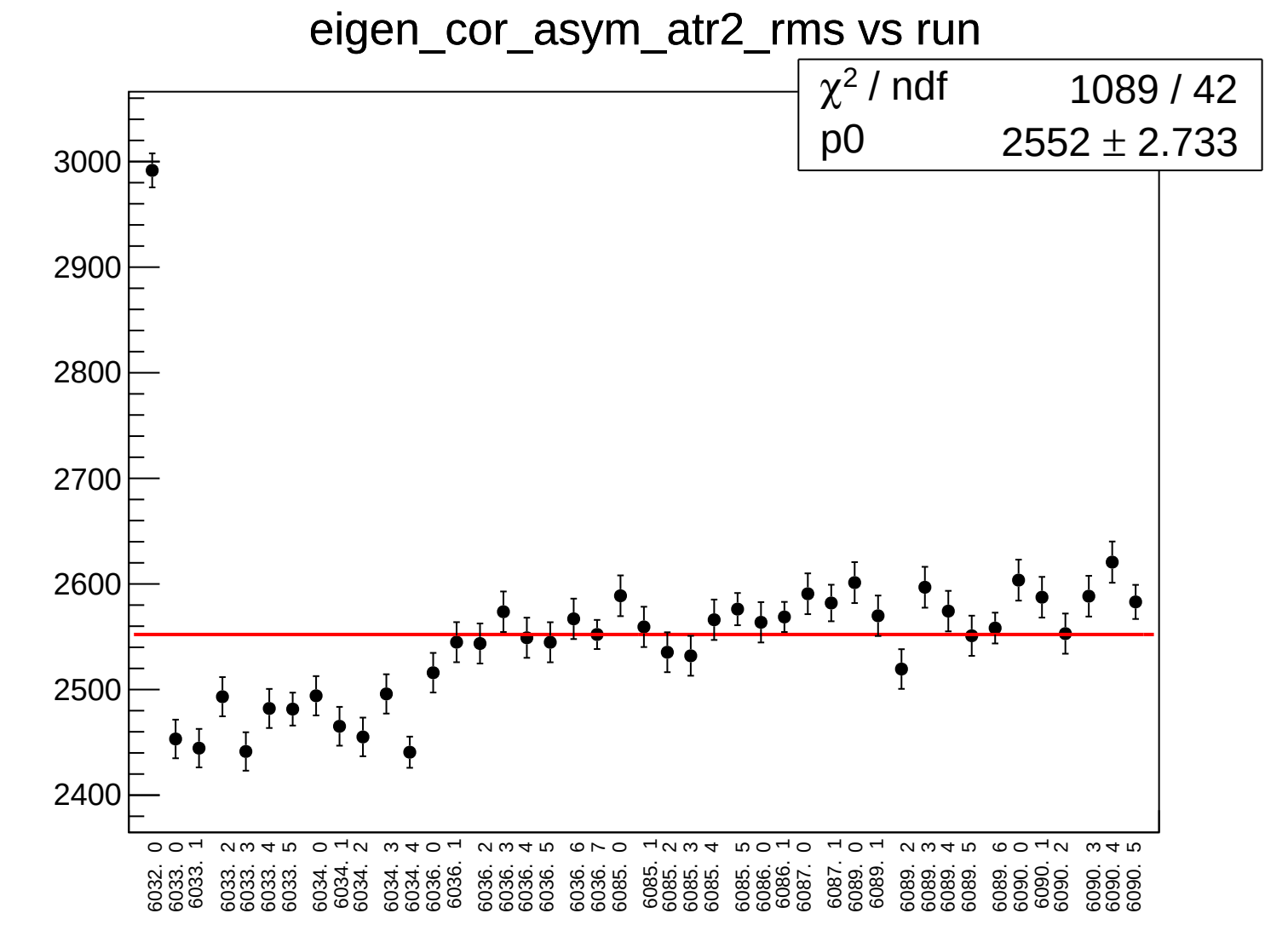

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 40.7 / 42
p0 1144 ± 1.183e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.22
Std Dev 0
2
1
0
−1
−2

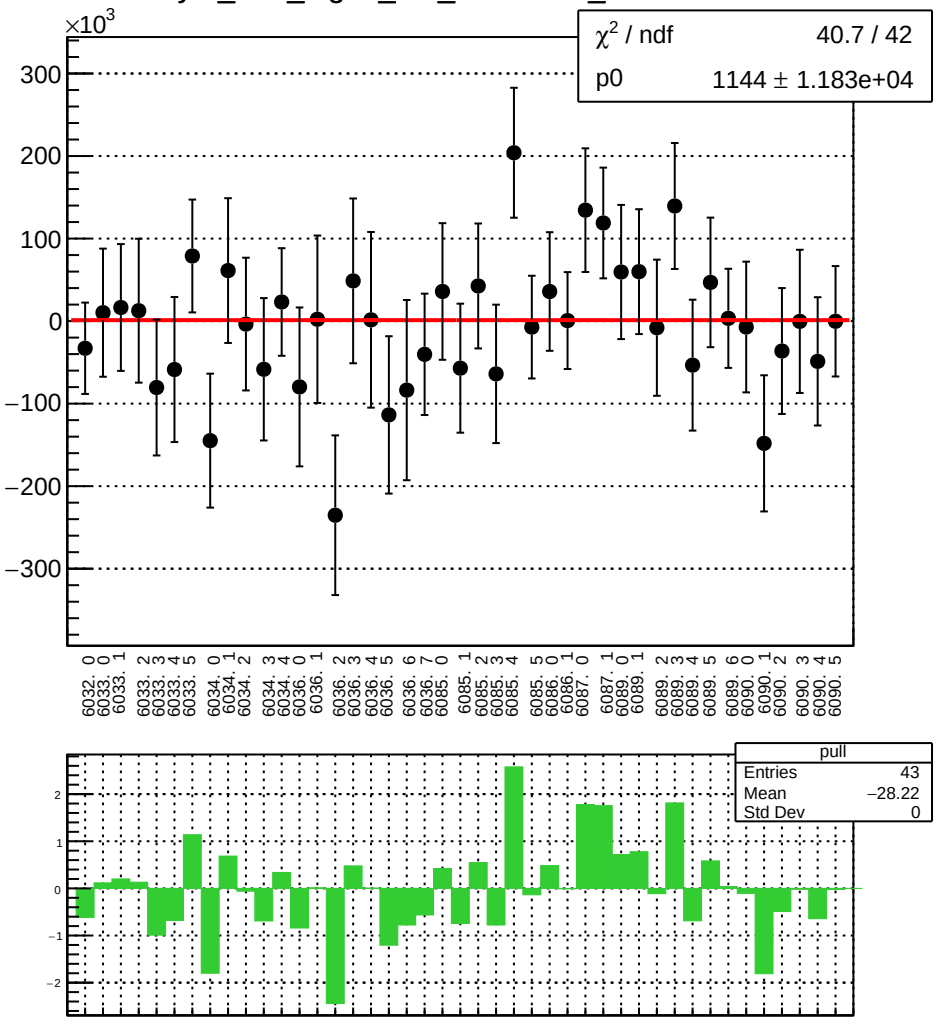

pull1D
Entries 43
Mean −0.03769
Std Dev 0.9722
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

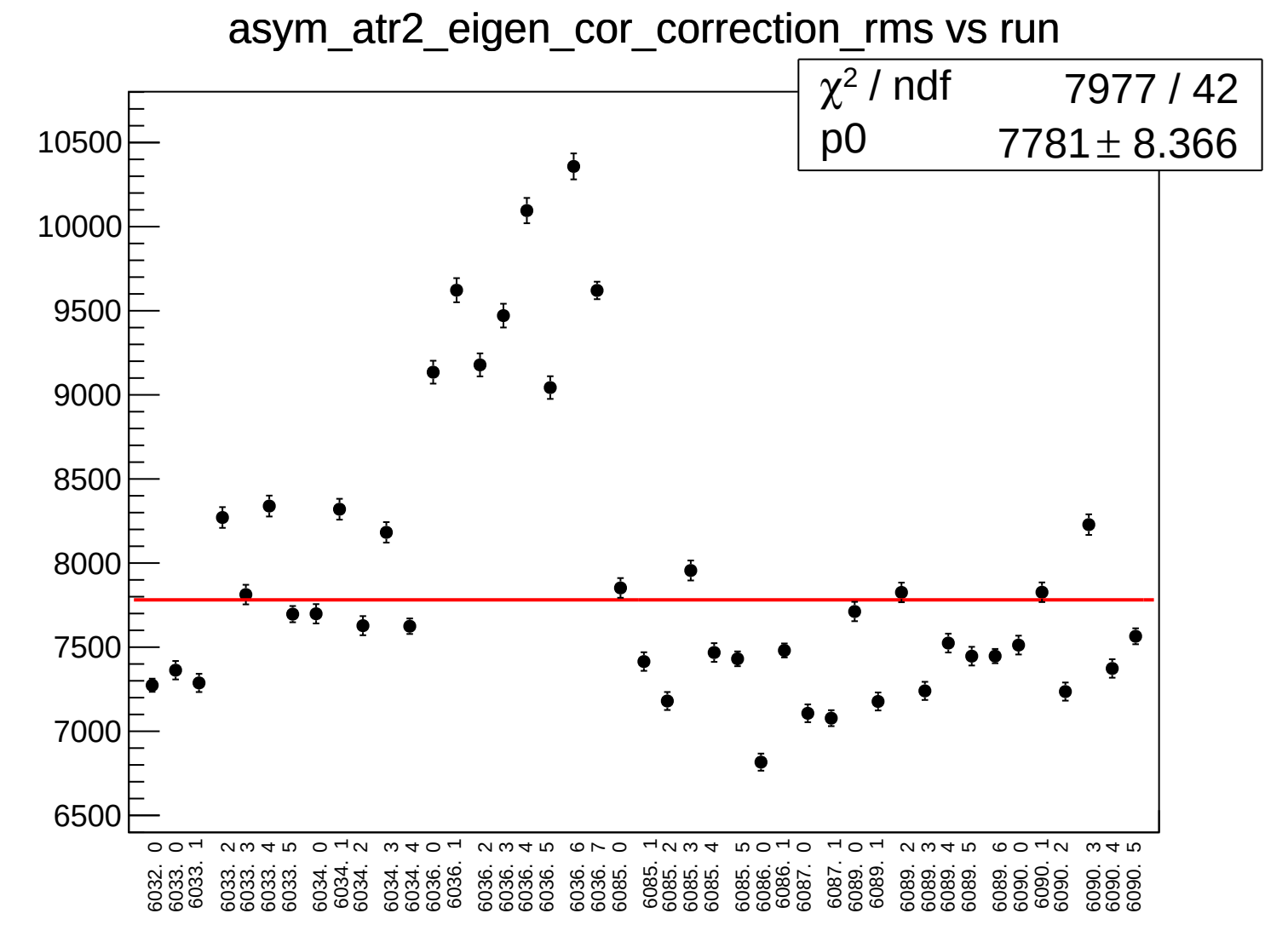

asym_atr2_cor_correction_rms vs run
χ² / ndf 7977 / 42
p0 7781 ± 8.366
10500
10000
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

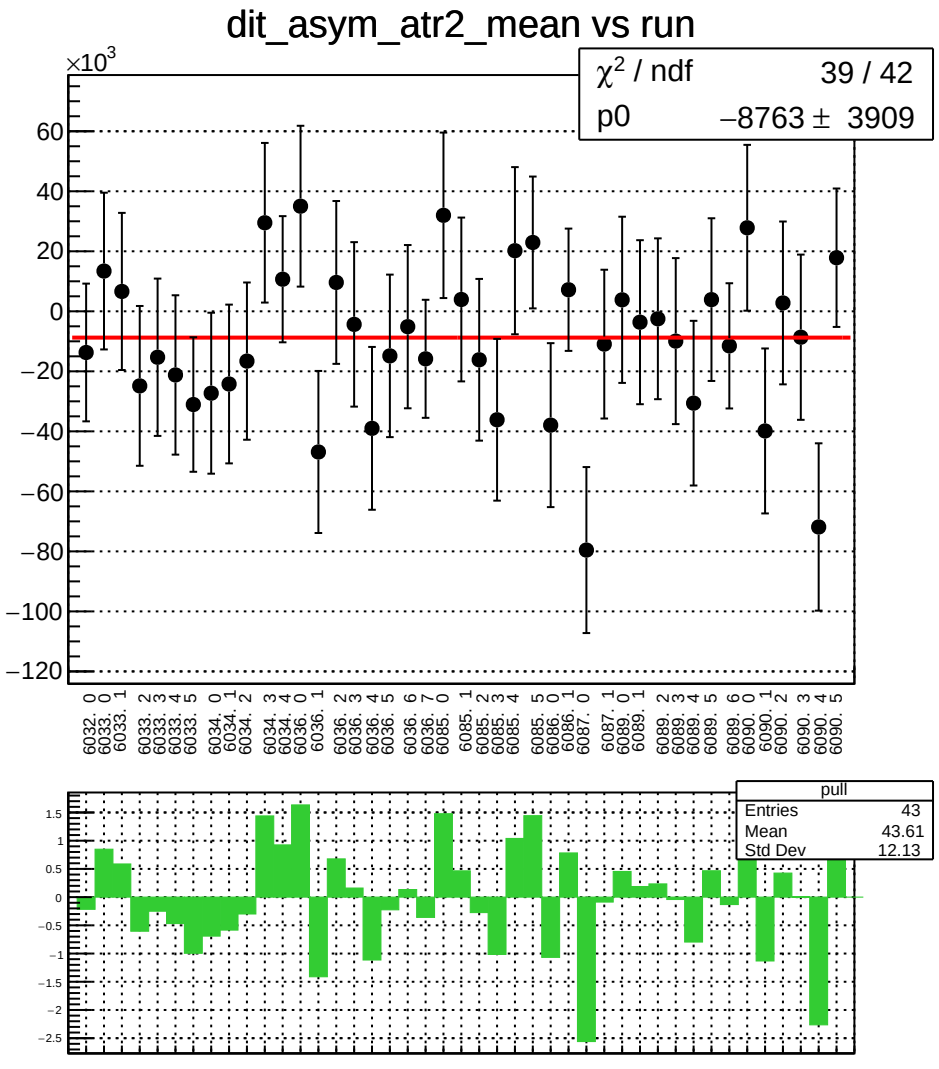

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 37.61 / 42
p0 −7726 ± 3865
pull
Entries 43
Mean 55.97
Std Dev 0

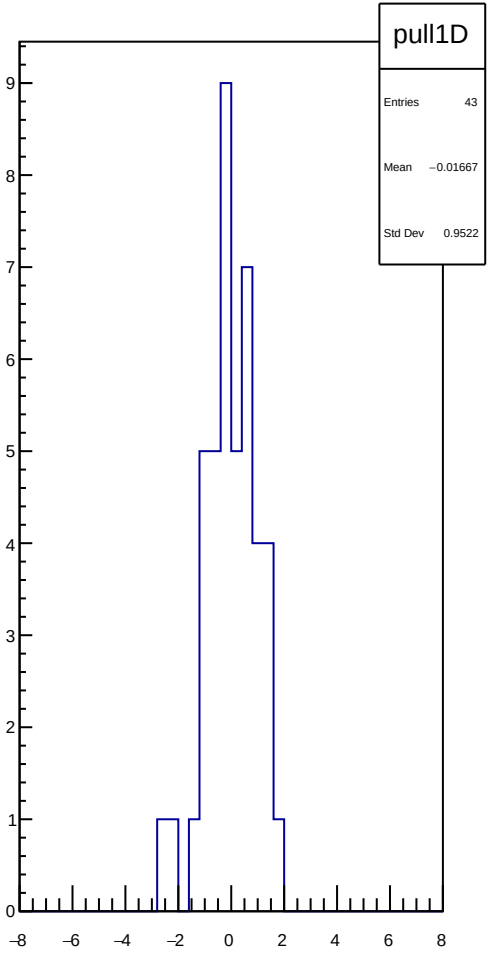

pull1D
Entries 43
Mean −0.01743
Std Dev 0.9351

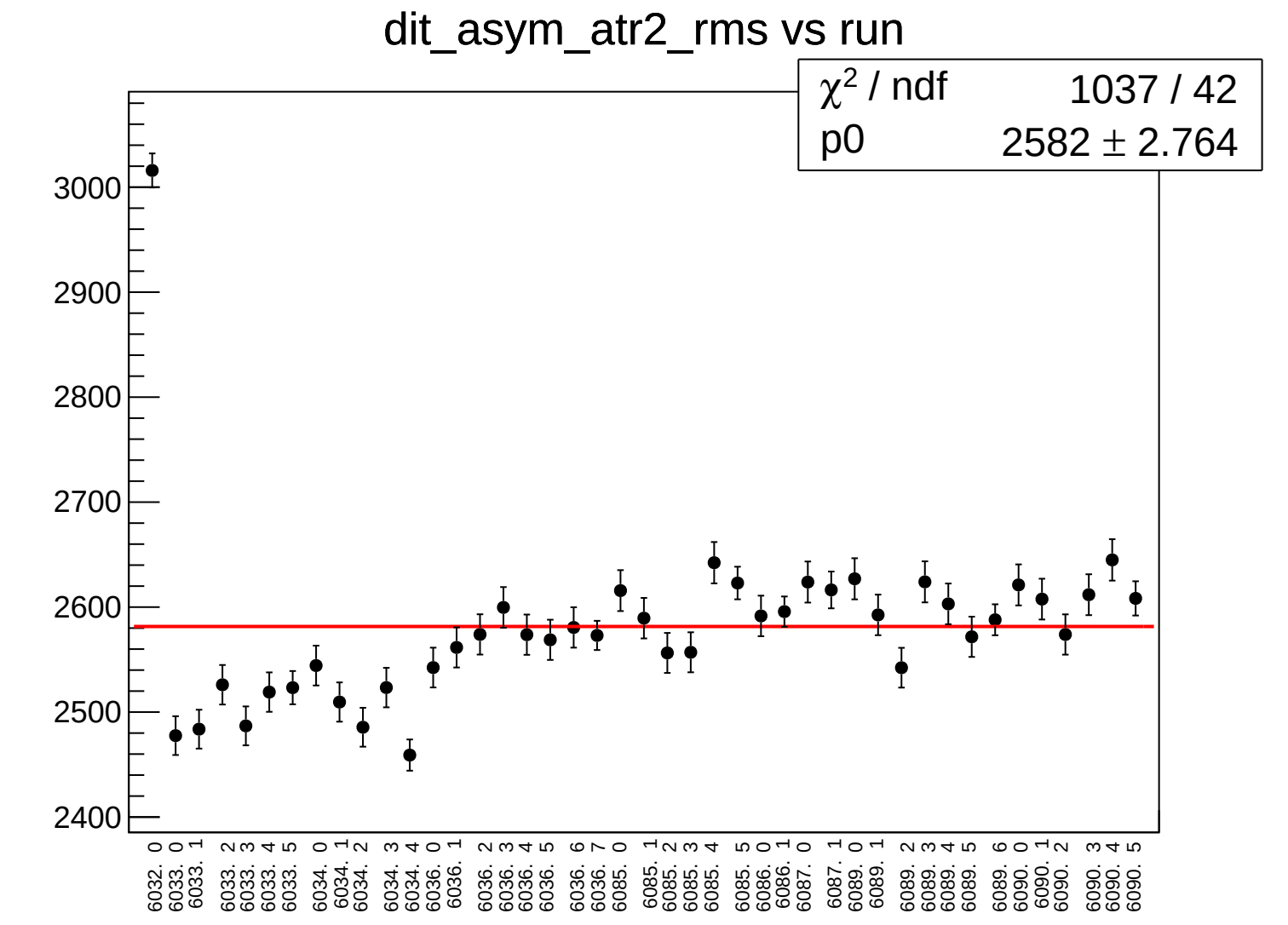

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1089 / 42
p0 2552 ± 2.733
3000
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

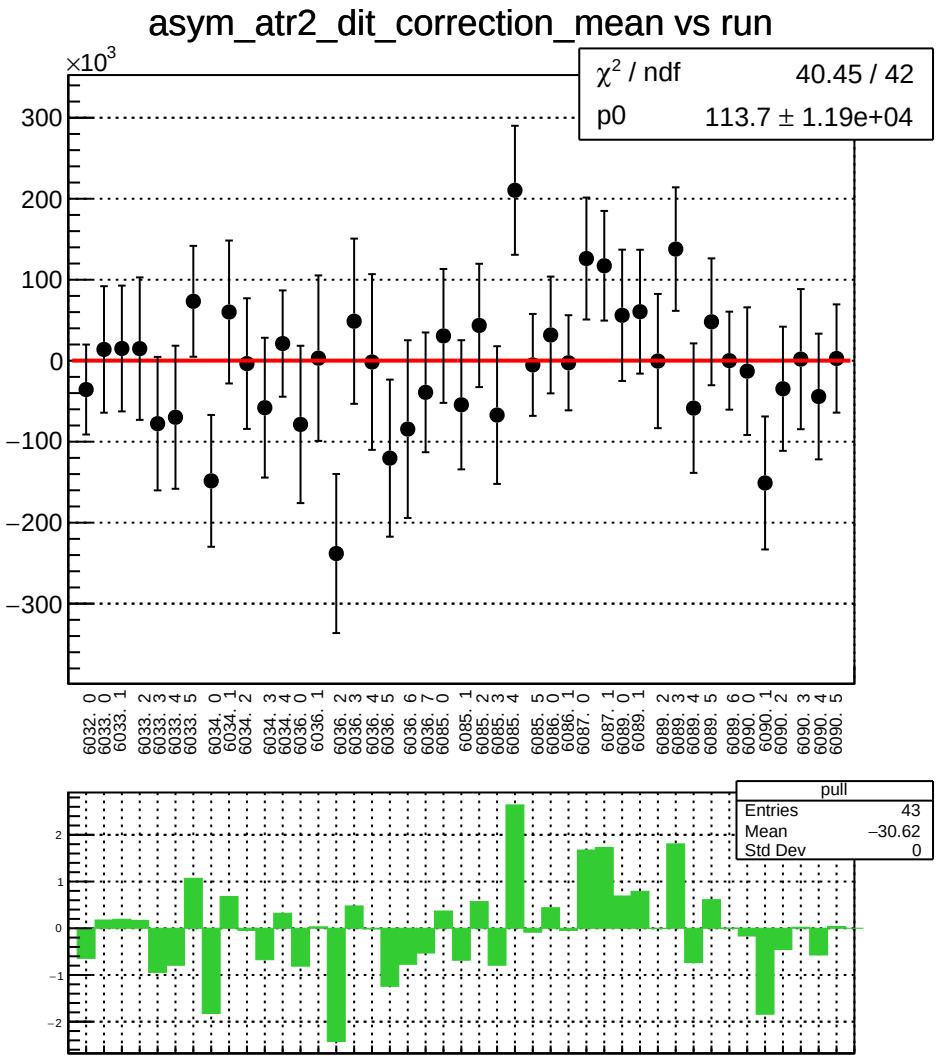

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.7 / 42
p0 1144 ± 1.183e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03769
Std Dev 0.9722
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

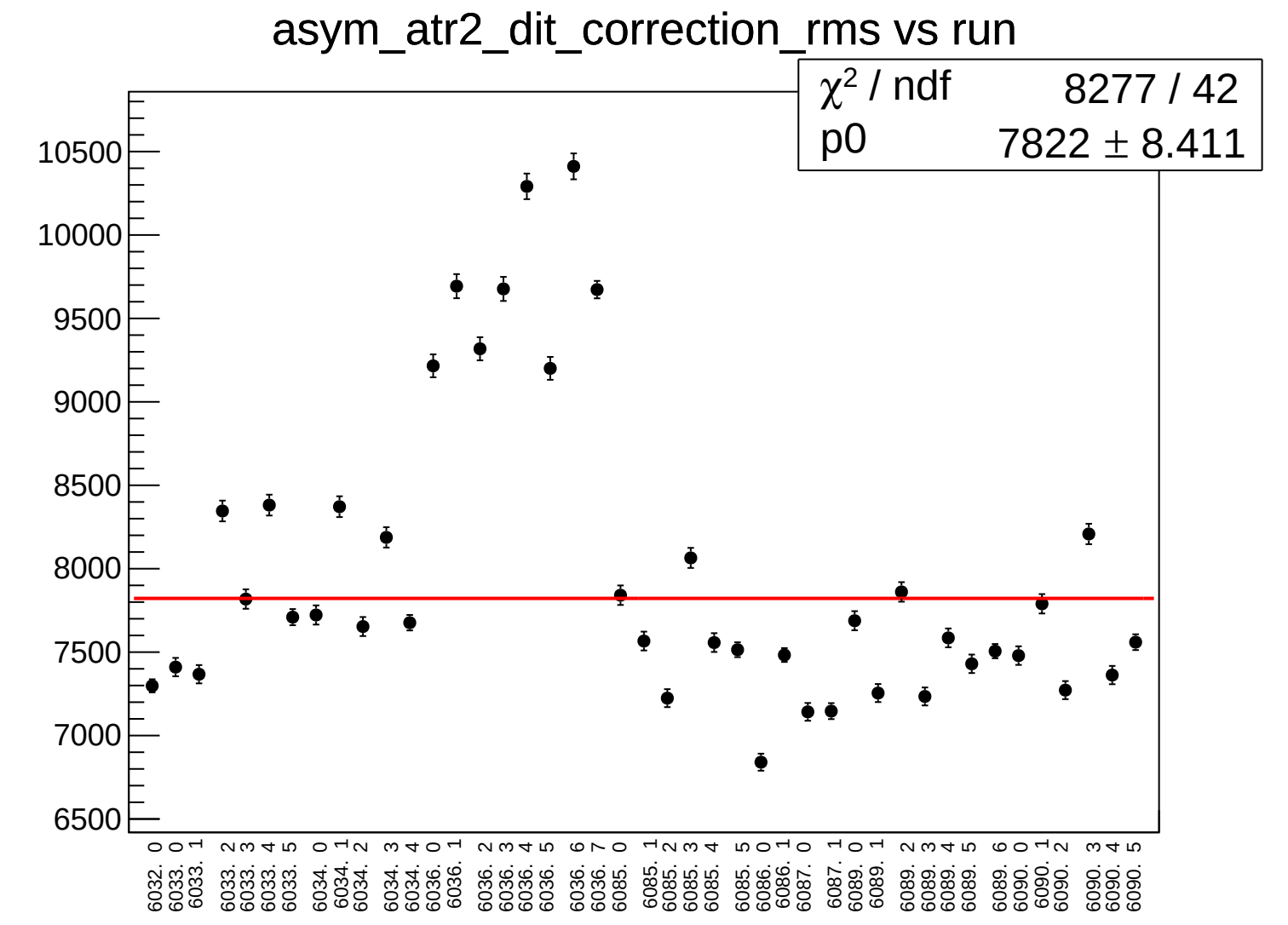

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 7977 / 42
p0 7781 ± 8.366
10500
10000
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

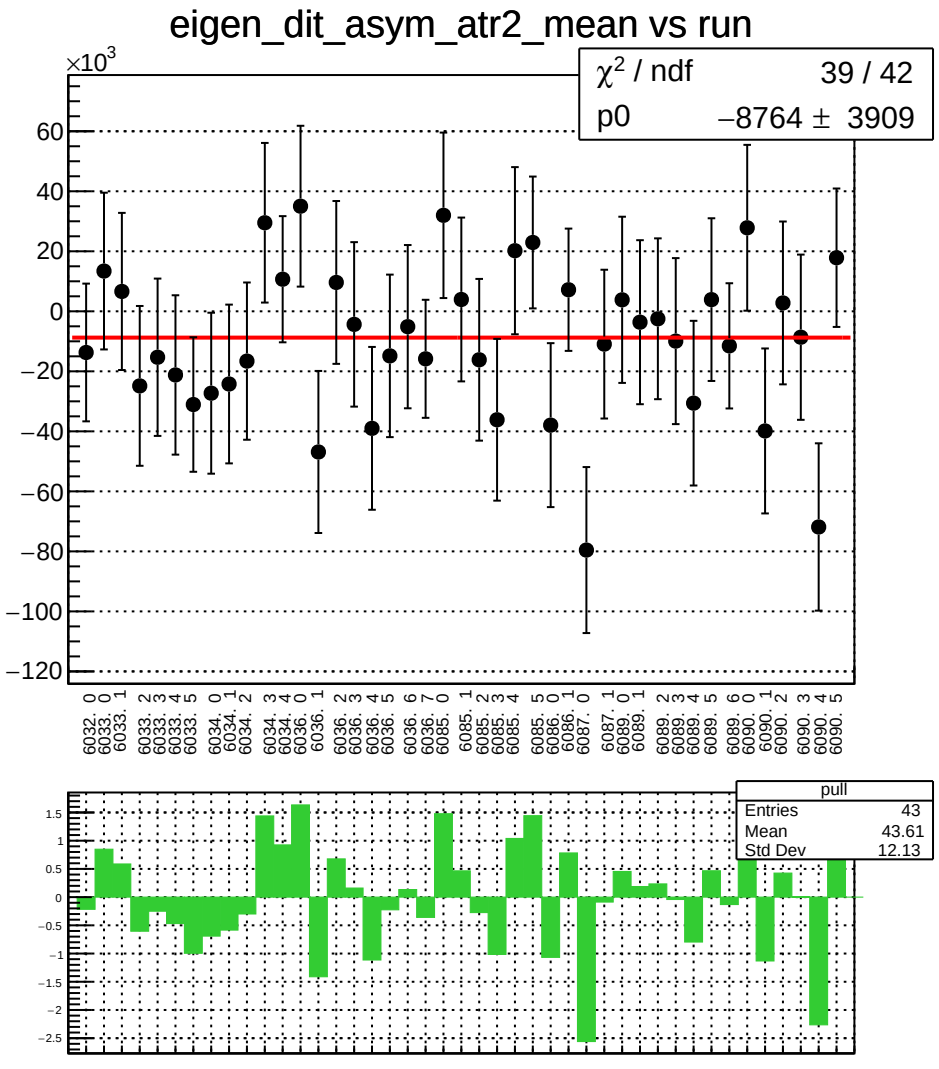

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 39 / 42
p0 −8763 ± 3909
pull
Entries 43
Mean 43.61
Std Dev 12.13

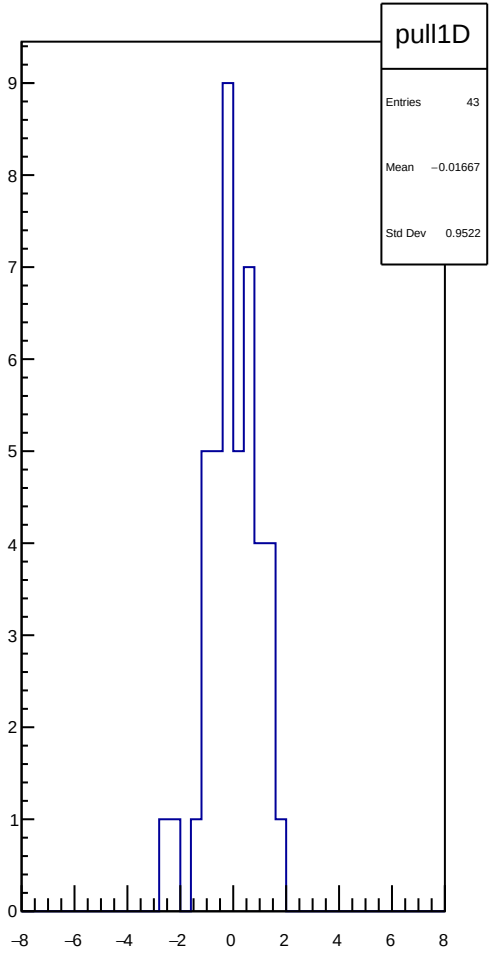

pull1D
Entries 43
Mean −0.01667
Std Dev 0.9522

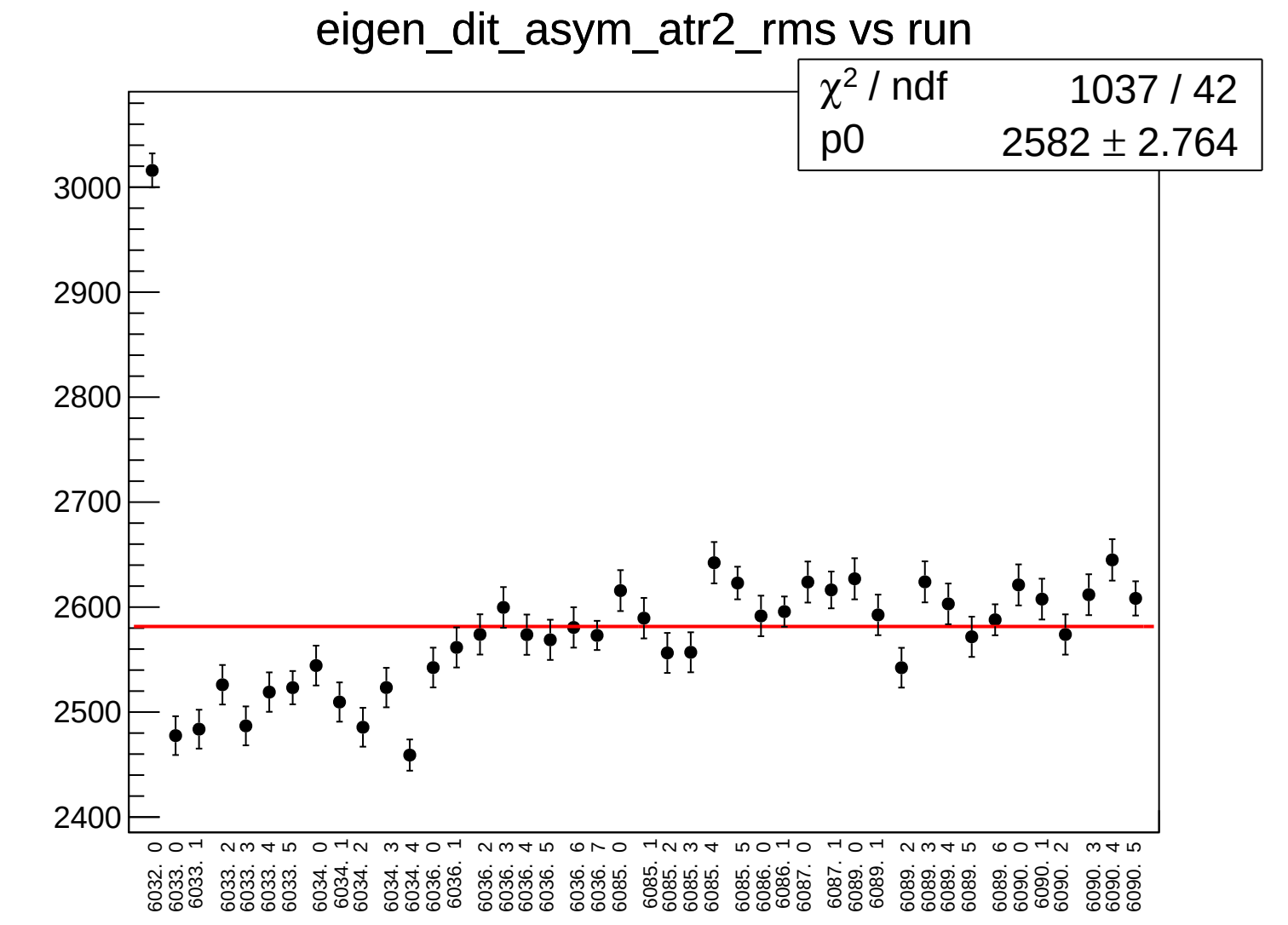

dit_asym_atr2_rms vs run
χ² / ndf 1037 / 42
p0 2582 ± 2.764
3000
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

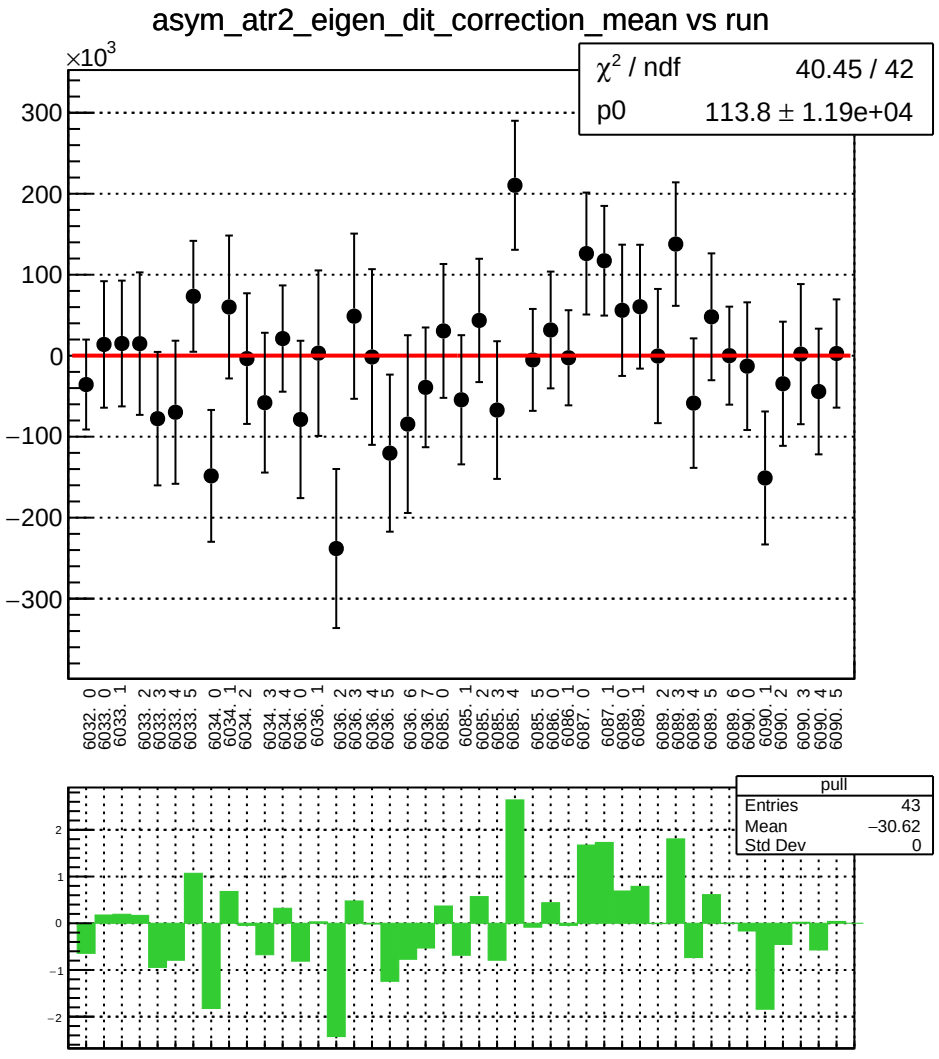

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 40.45 / 42
p0 113.7 ± 1.19e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −30.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0371
Std Dev 0.9692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

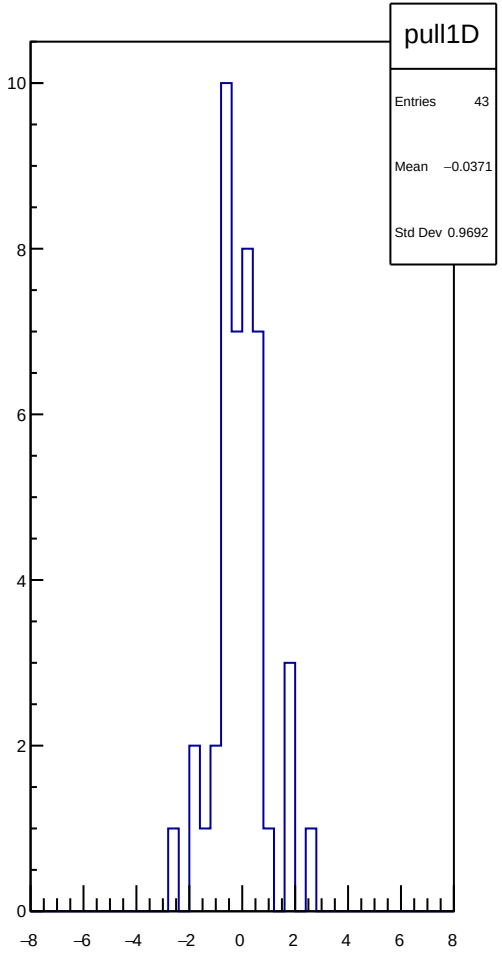

asym_atr2_dit_correction_rms vs run
χ² / ndf 8277 / 42
p0 7822 ± 8.411
10500
10000
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

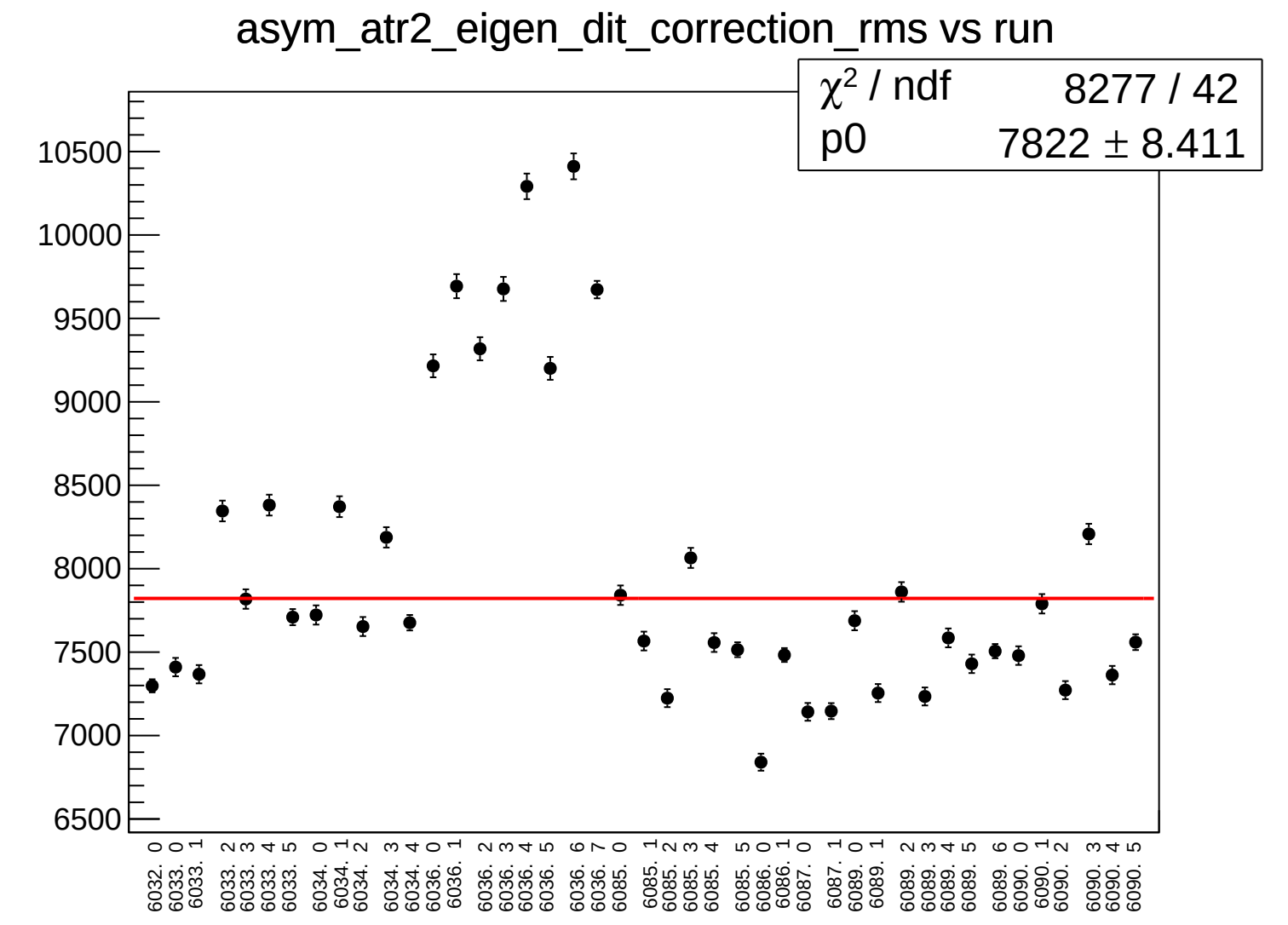

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 39 / 42
p0 −8764 ± 3909
pull
Entries 43
Mean 43.61
Std Dev 12.13

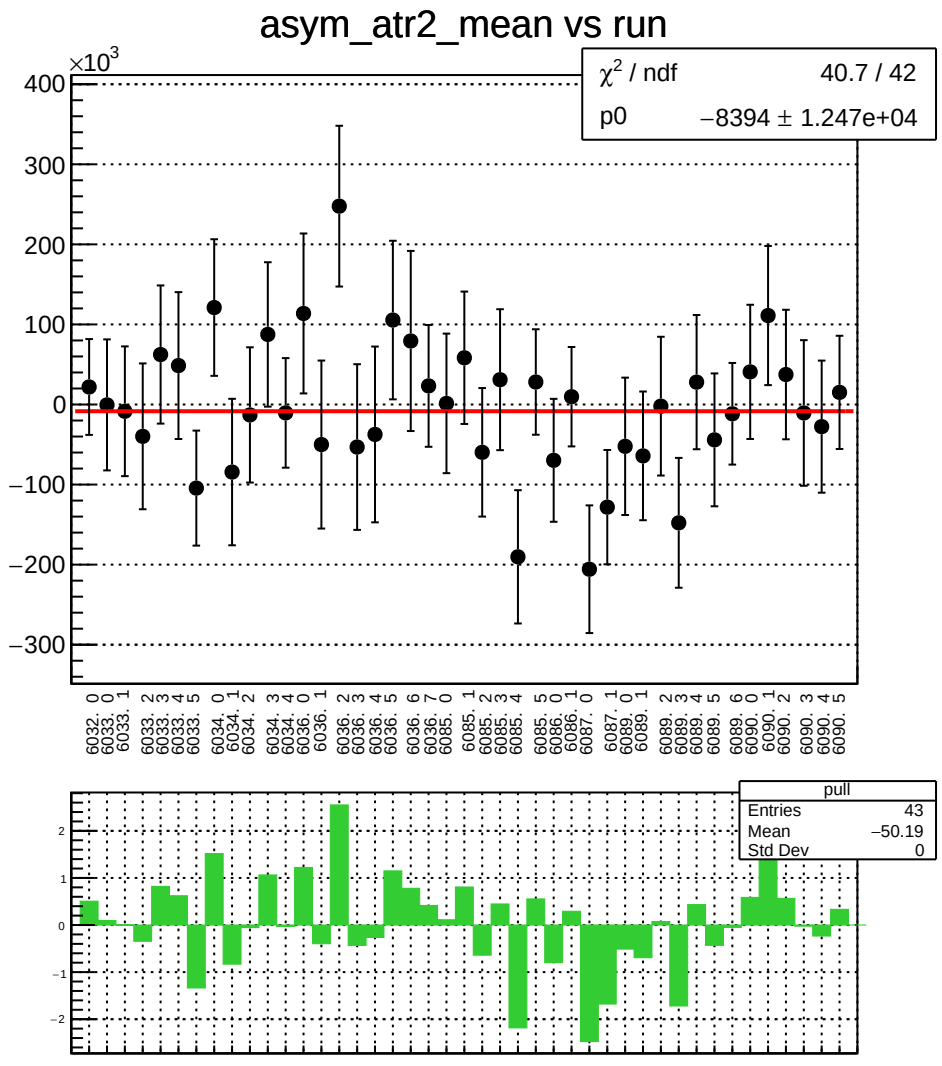

pull1D
Entries 43
Mean −0.01667
Std Dev 0.9522

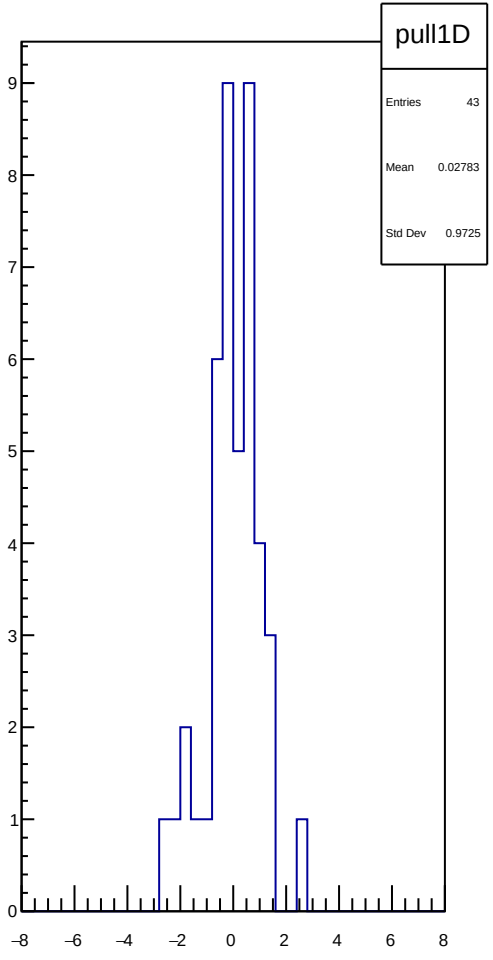

eigen_dit_asym_atr2_rms vs run
χ² / ndf 1037 / 42
p0 2582 ± 2.764
3000
2900
2800
2700
2600
2500
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

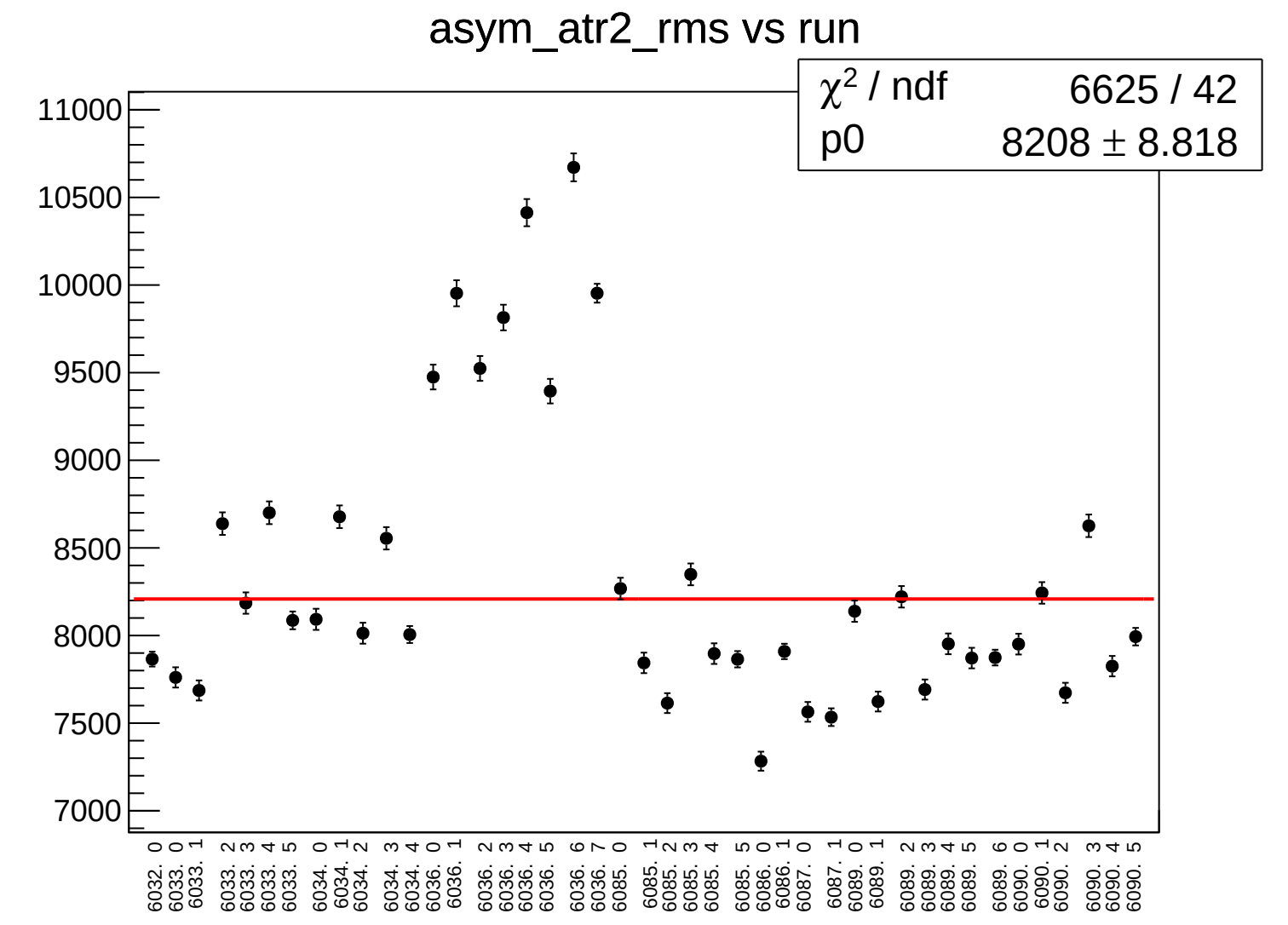

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 40.45 / 42
p0 113.8 ± 1.19e+04
pull
Entries 43
Mean −30.62
Std Dev 0

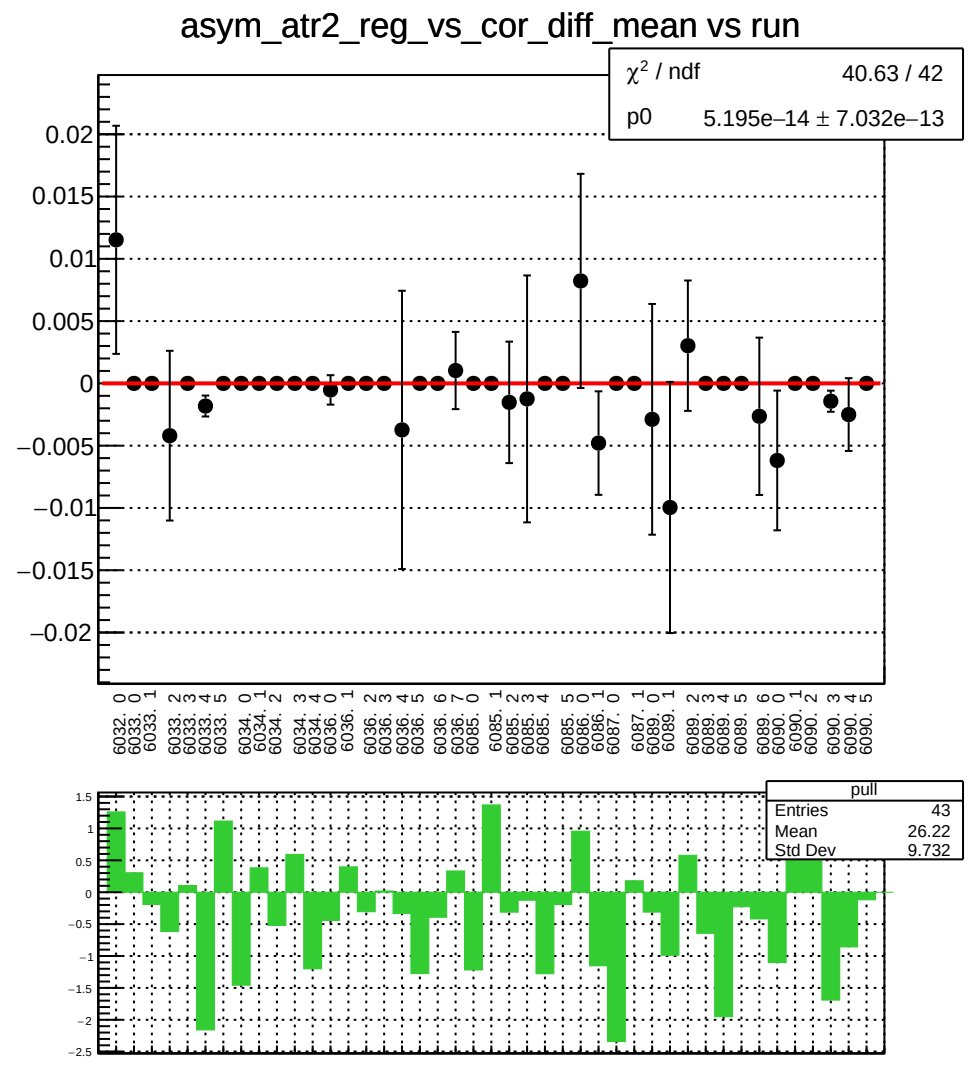

pull1D
Entries 43
Mean −0.0371
Std Dev 0.9692

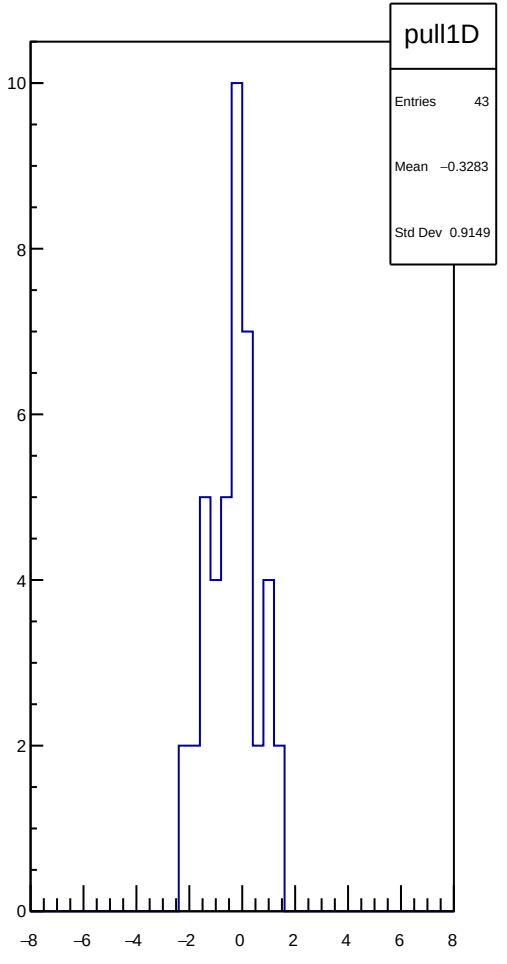

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 8277 / 42
p0 7822 ± 8.411
10500
10000
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

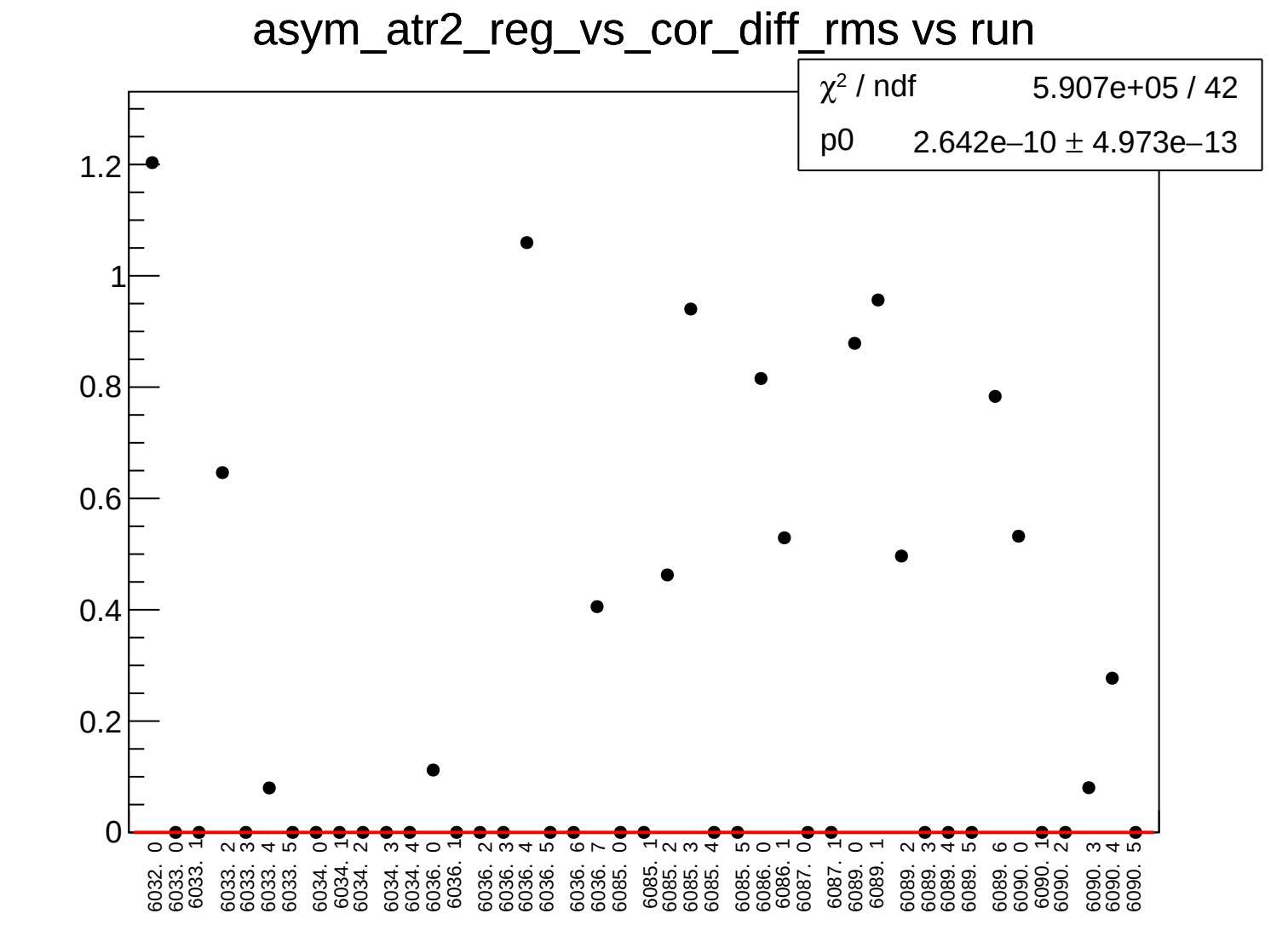

asym_atr2_mean vs run
×10^3
χ² / ndf 40.7 / 42
p0 −8394 ± 1.247e+04
400
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −50.19
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.02783
Std Dev 0.9725
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

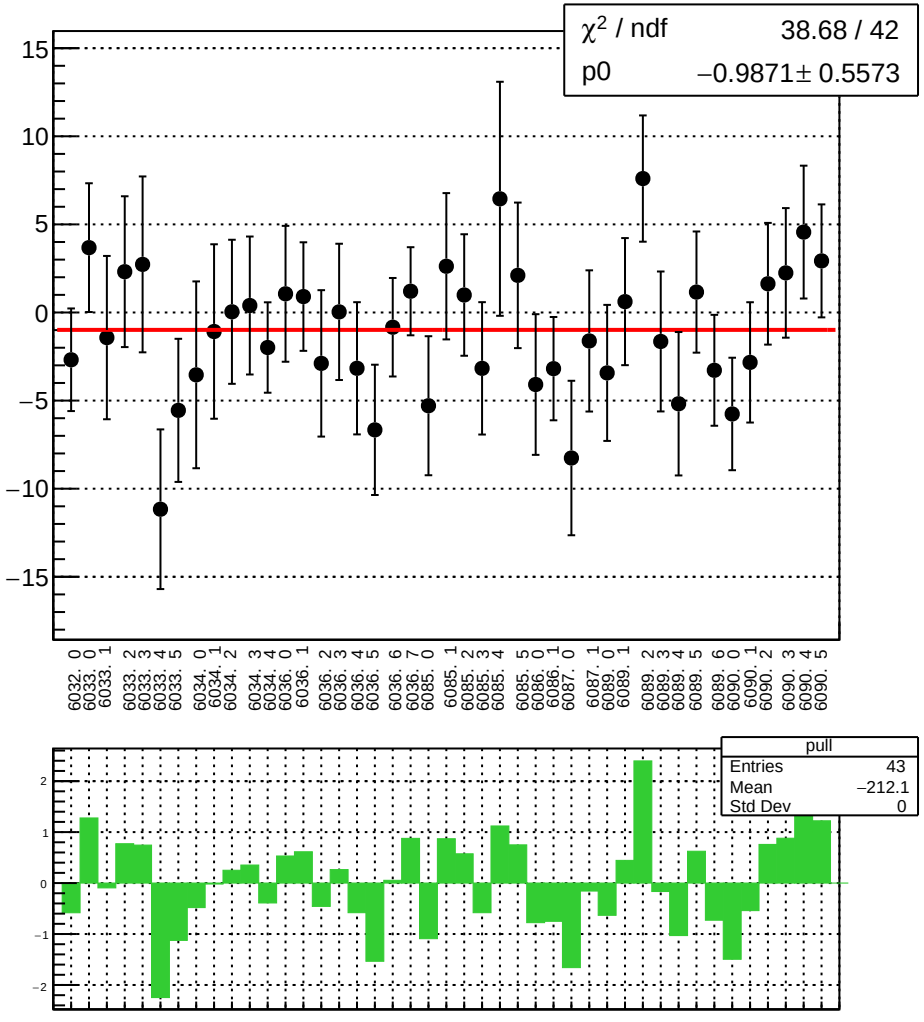

asym_atr2_rms vs run
χ^2 / ndf 6625 / 42
p0 8208 ± 8.818
11000
10500
10000
9500
9000
8500
8000
7500
7000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

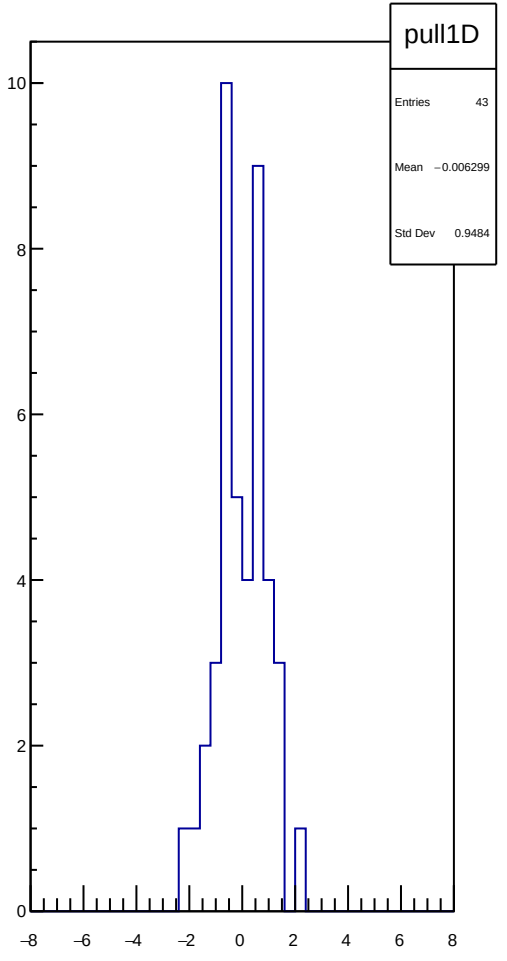

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 40.63 / 42
p0 5.195e−14 ± 7.032e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.22
Std Dev 9.732
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

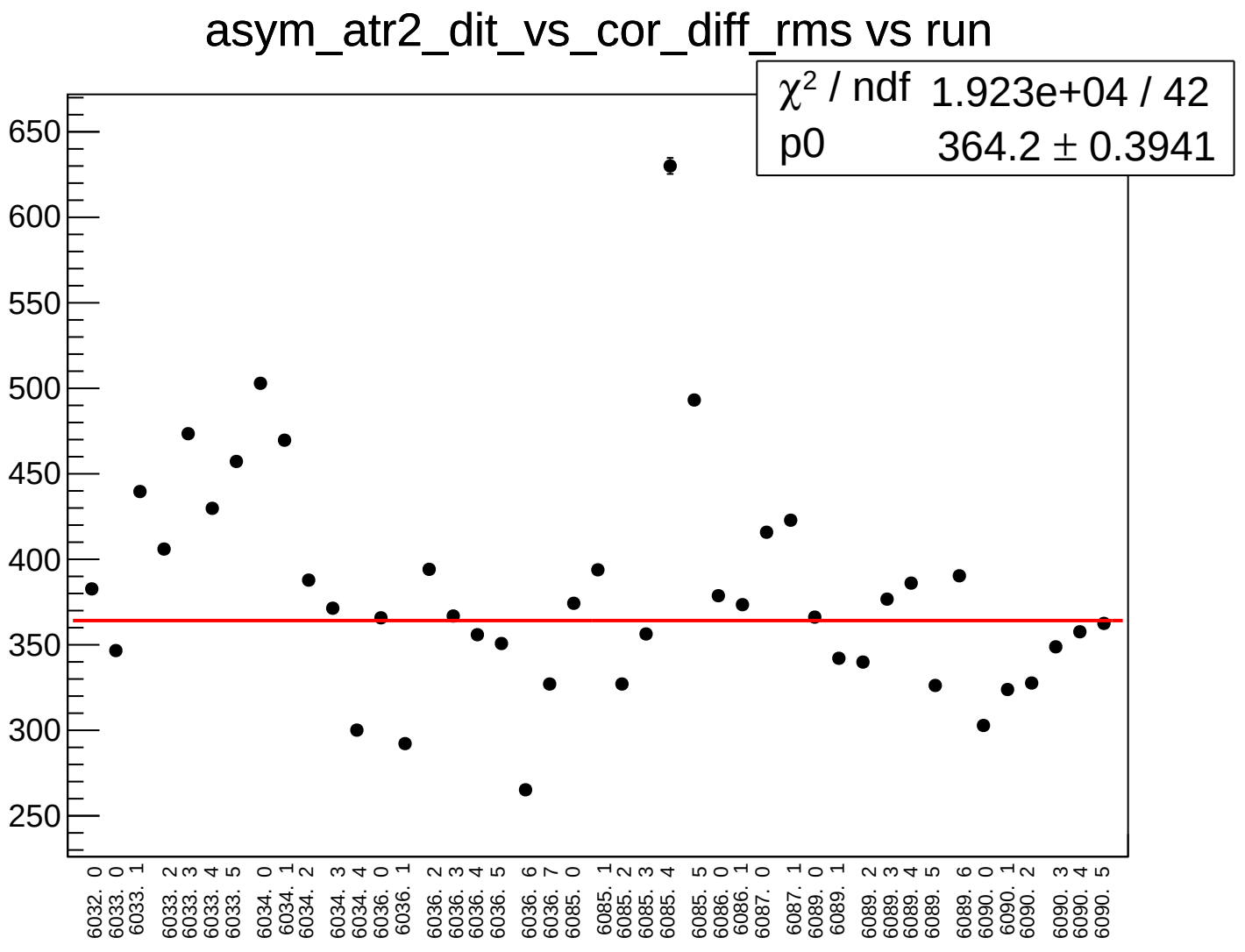

pull1D
Entries 43
Mean −0.3283
Std Dev 0.9149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.907e+05 / 42
p0 2.642e−10 ± 4.973e−13
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

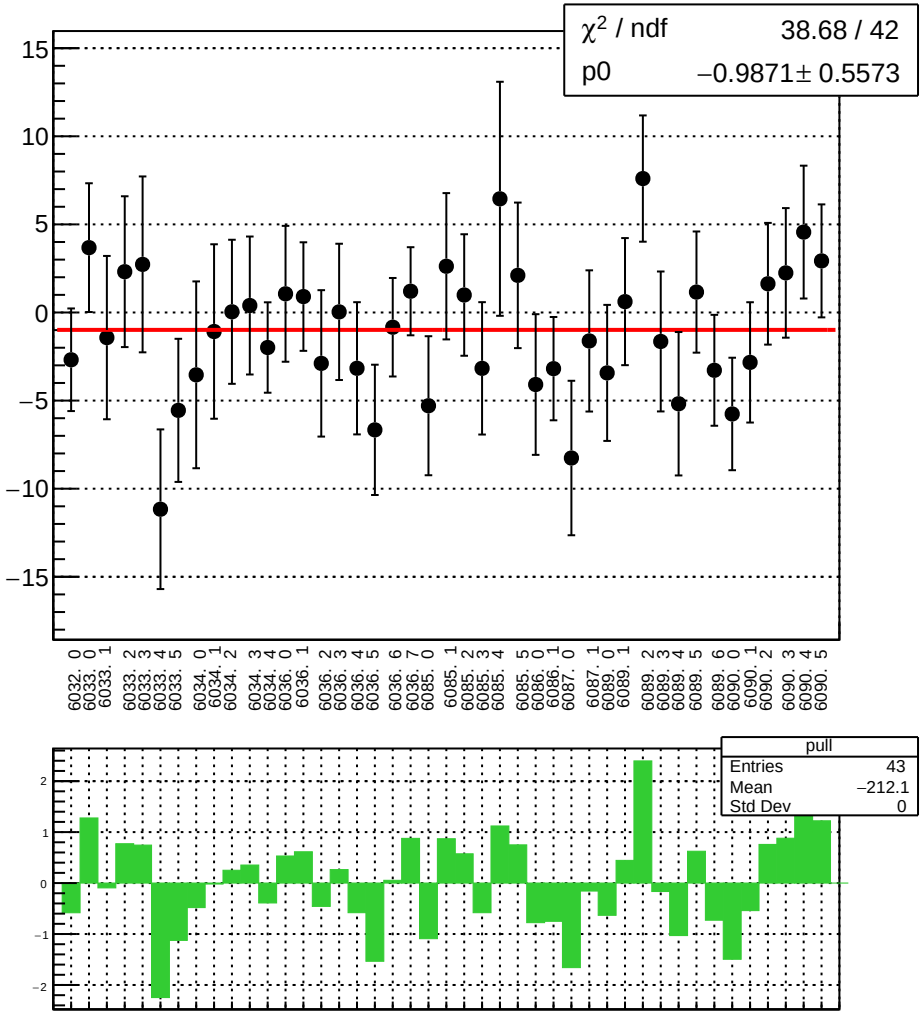
asym_atr2_dit_vs_cor_diff_mean vs run

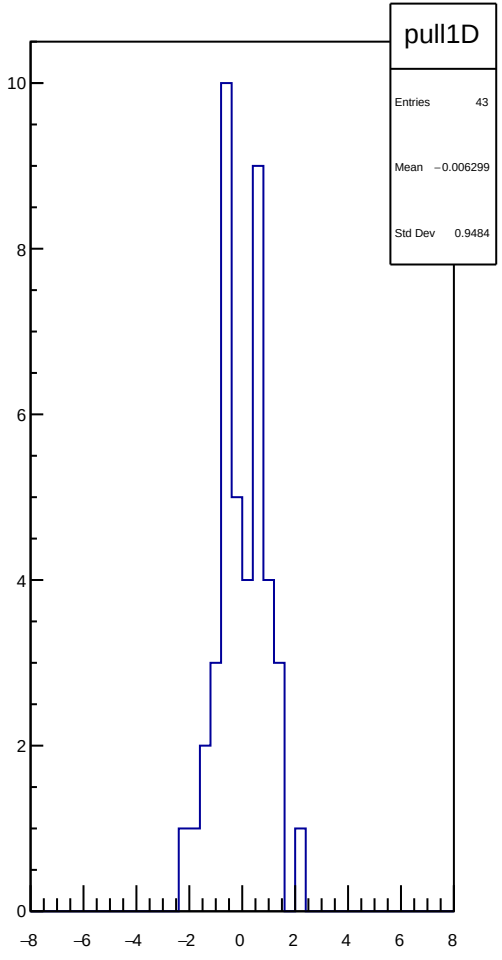


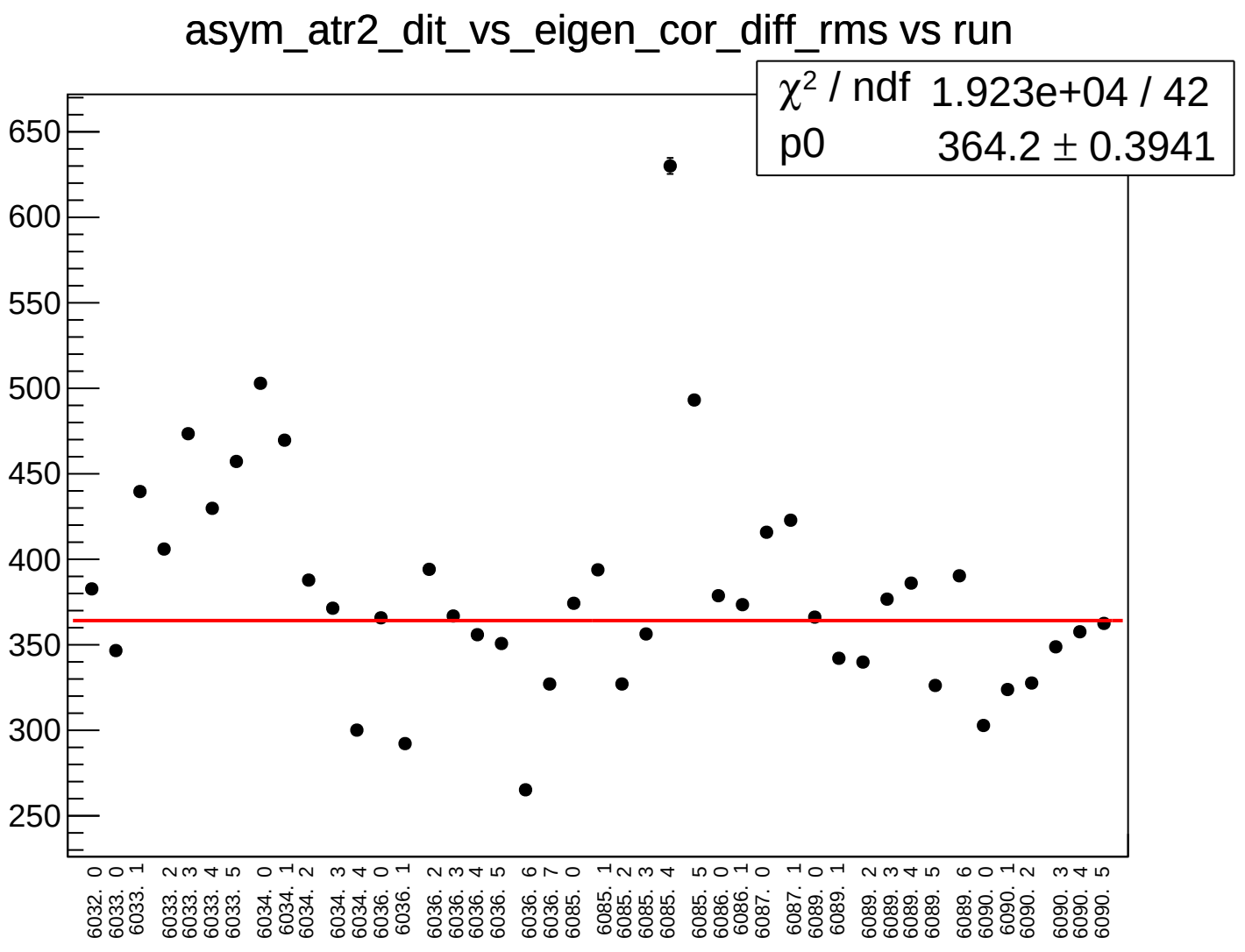


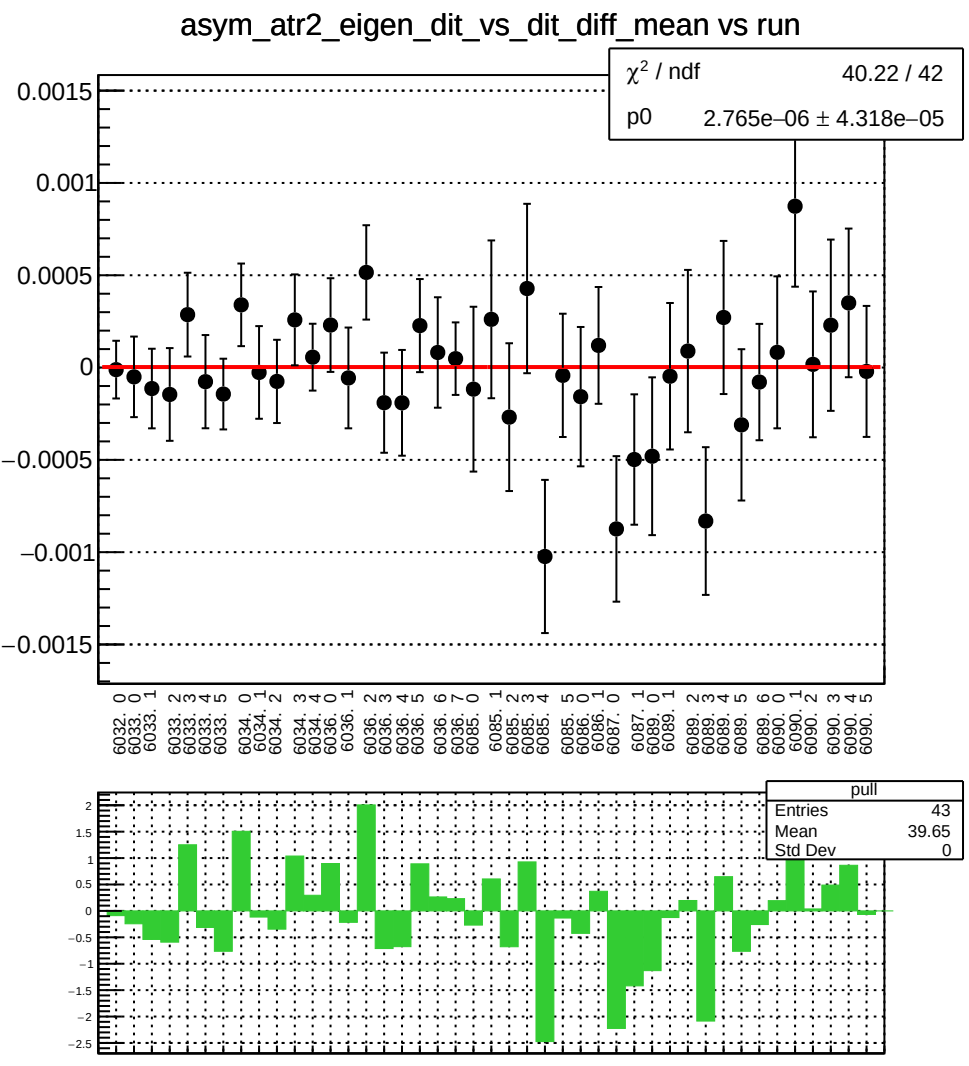

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.923e+04 / 42
p0 364.2 ± 0.3941
650
600
550
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

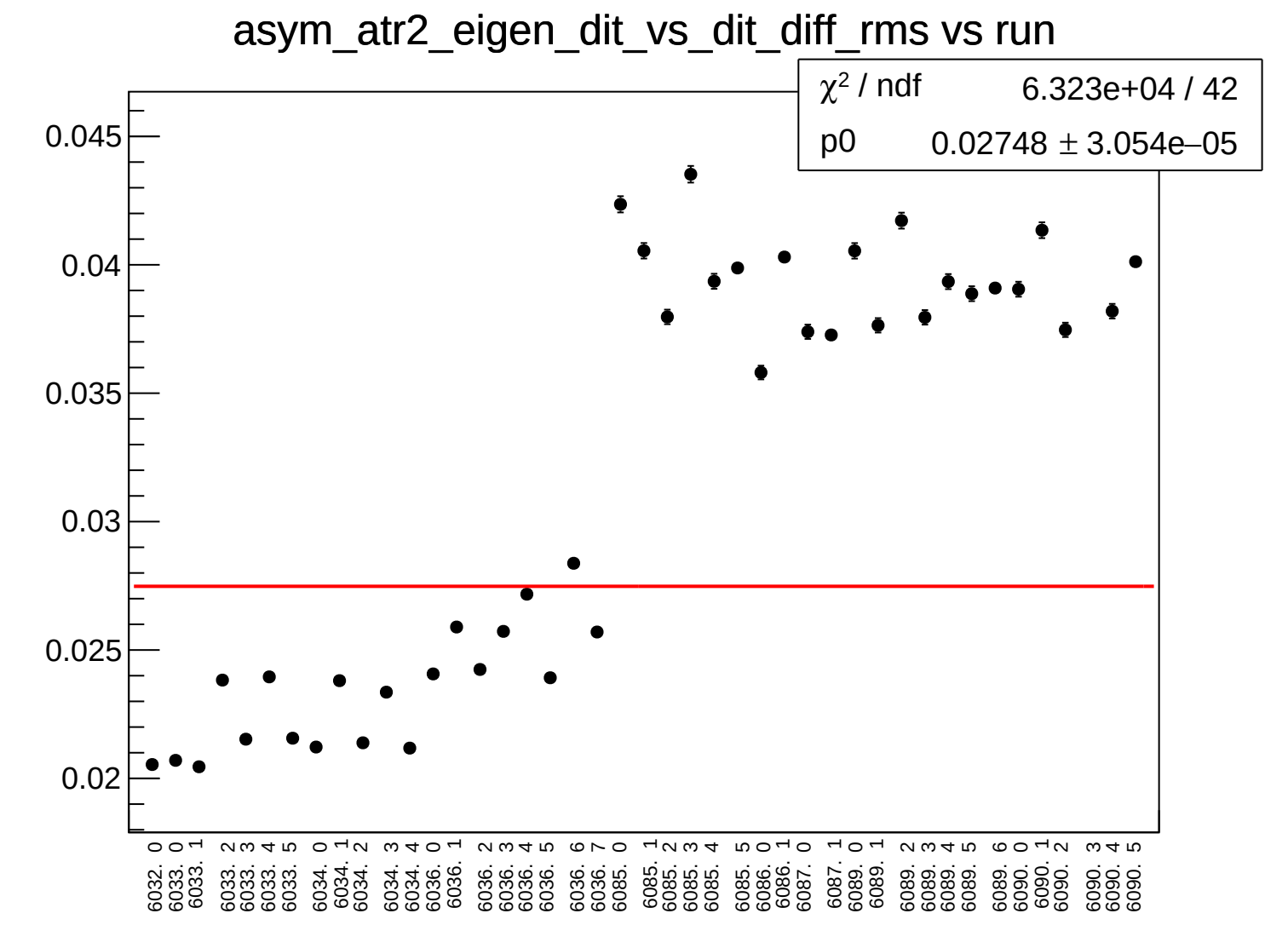
asym_atr2_dit_vs_eigen_cor_diff_mean vs run



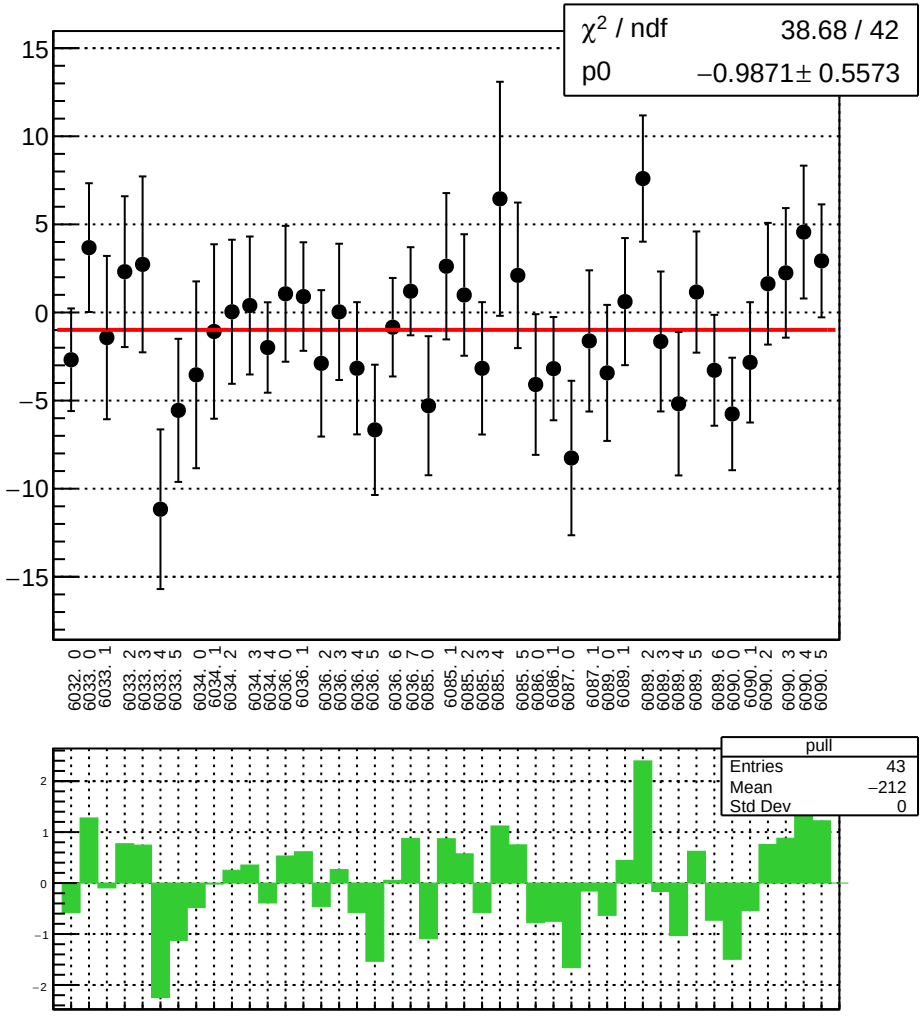


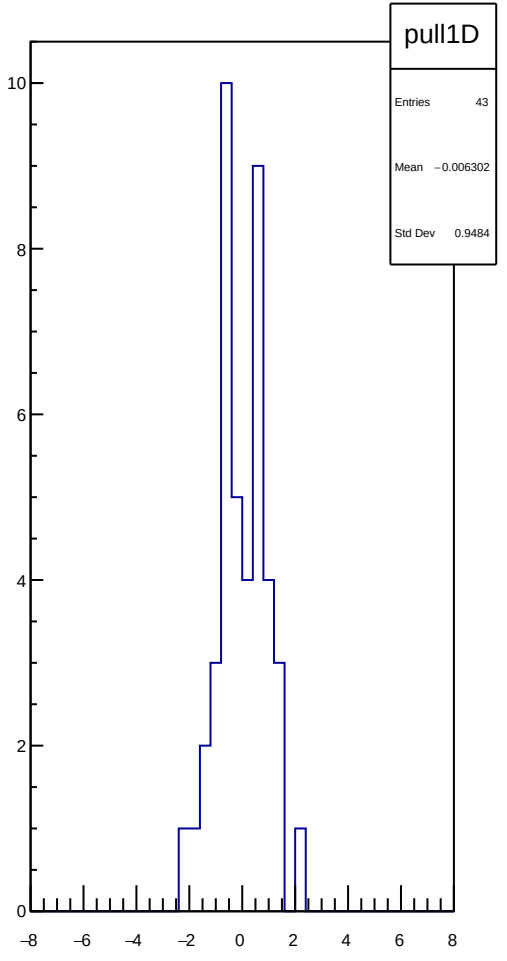

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.923e+04 / 42
p0 364.2 ± 0.3941
650
600
550
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

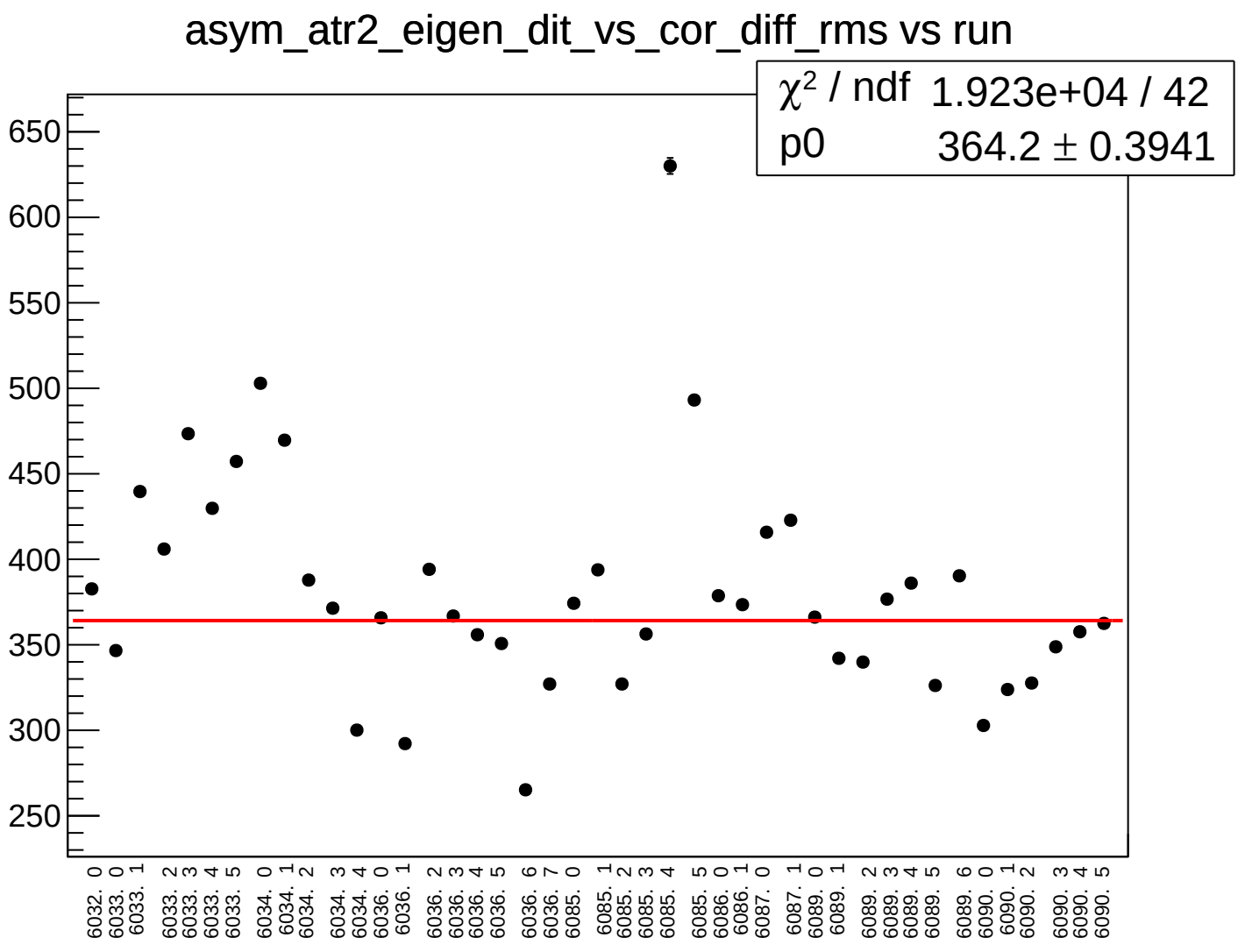

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.22 / 42
p0 2.765e−06 ± 4.318e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 39.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.04537
Std Dev 0.9661
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

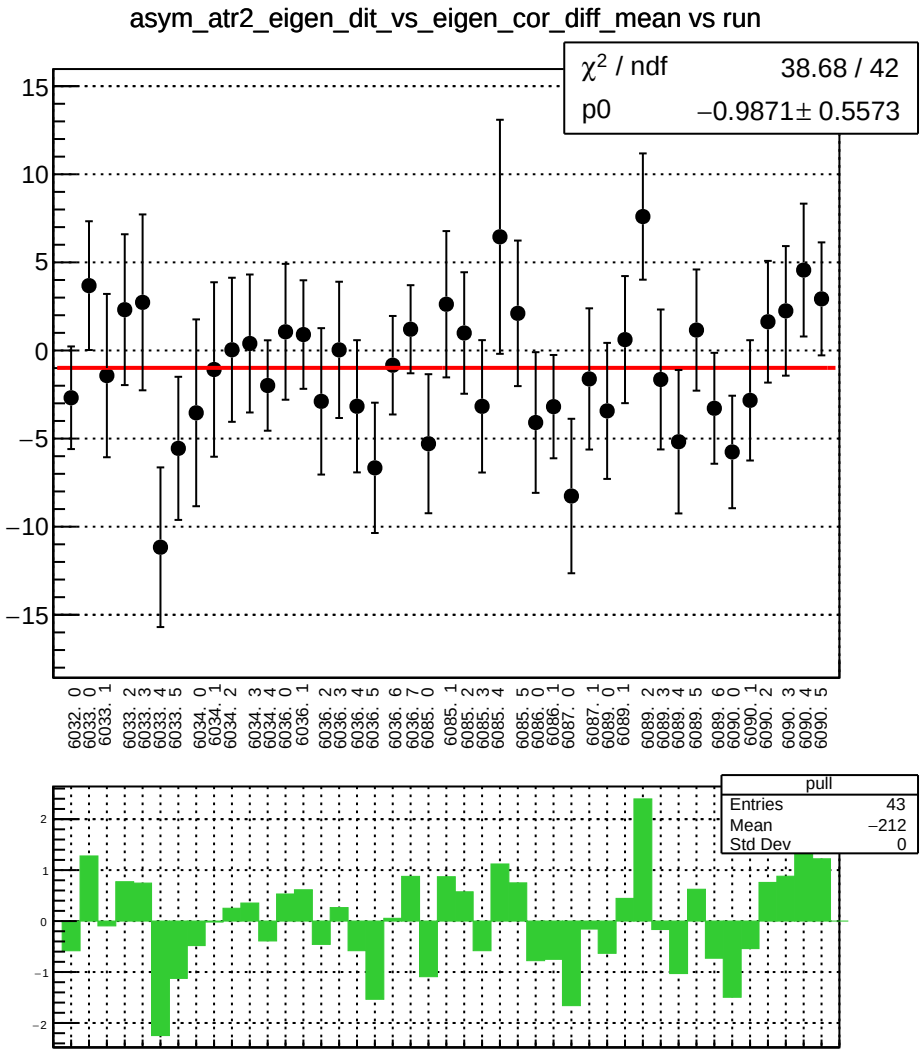

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.323e+04 / 42
p0 0.02748 ± 3.054e−05
0.045
0.04
0.035
0.03
0.025
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

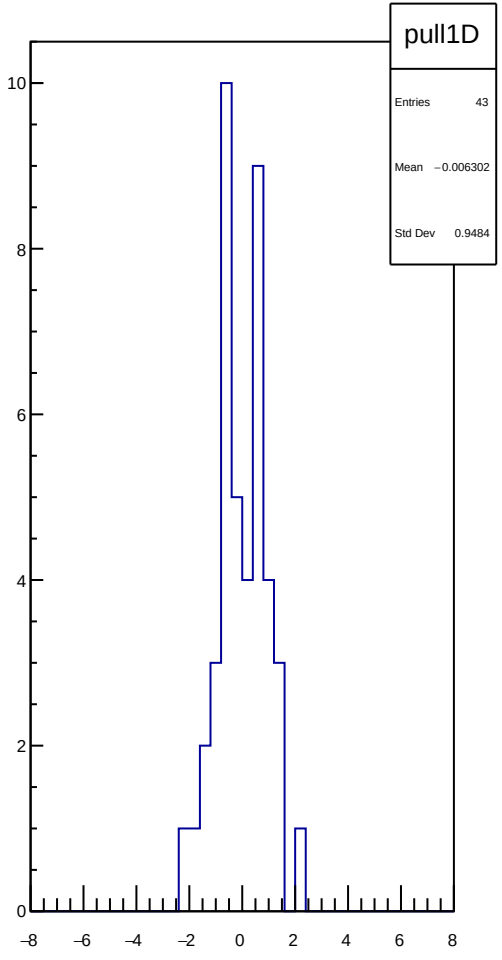
asym_atr2_eigen_dit_vs_cor_diff_mean vs run

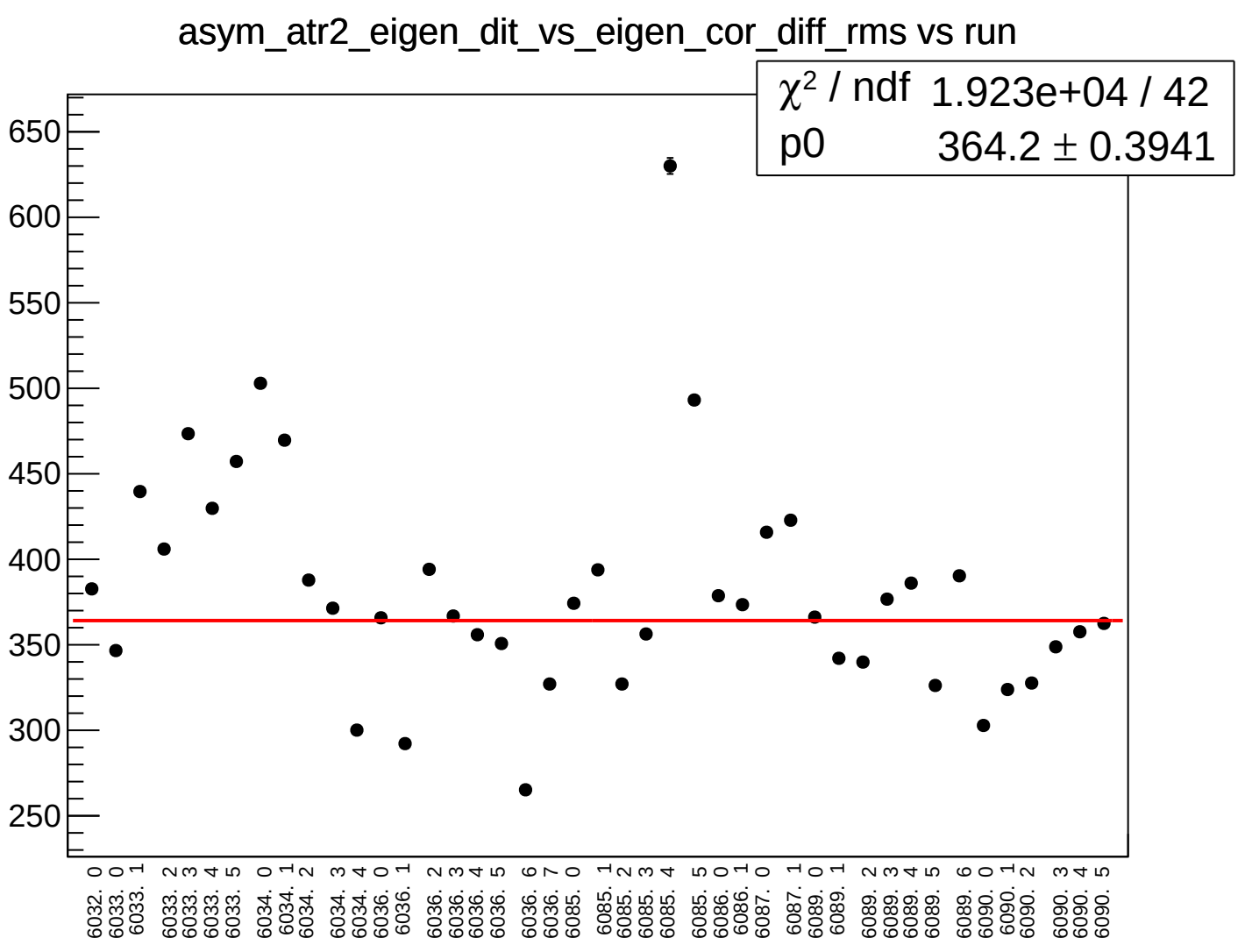


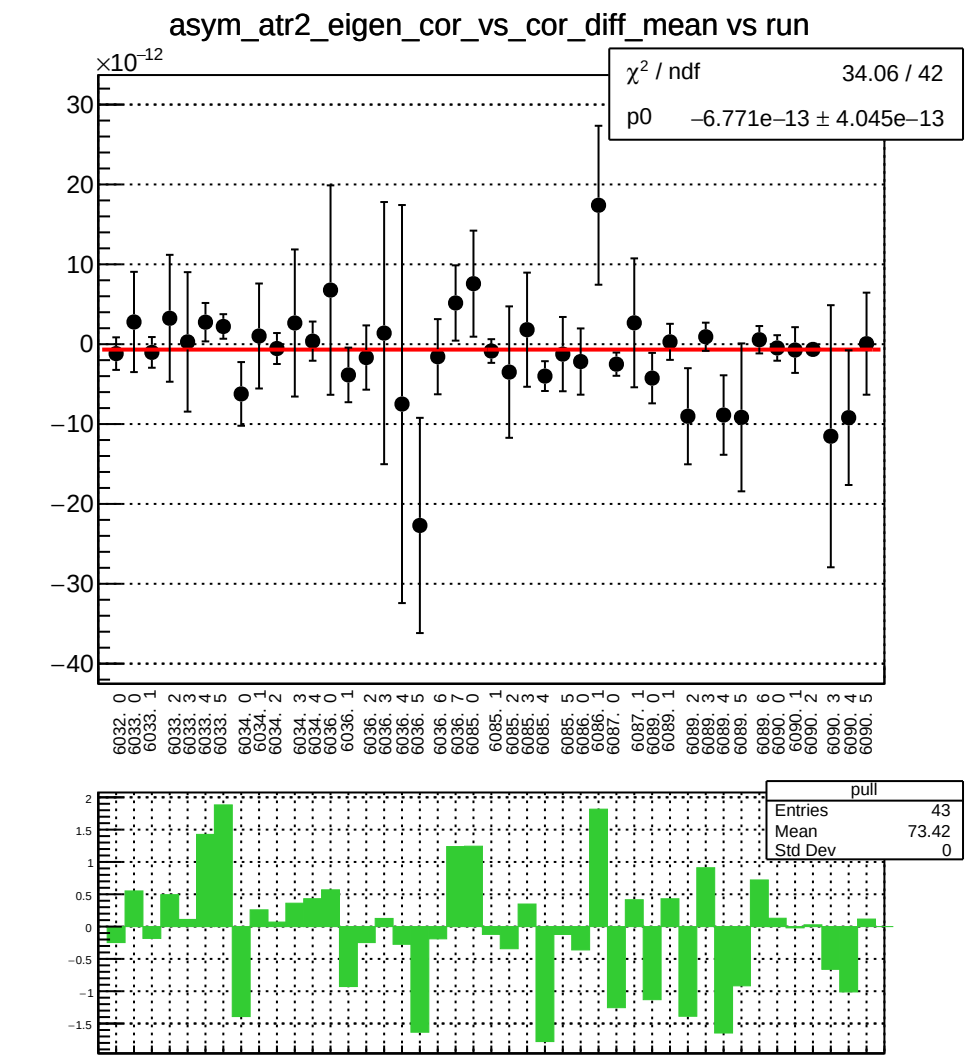


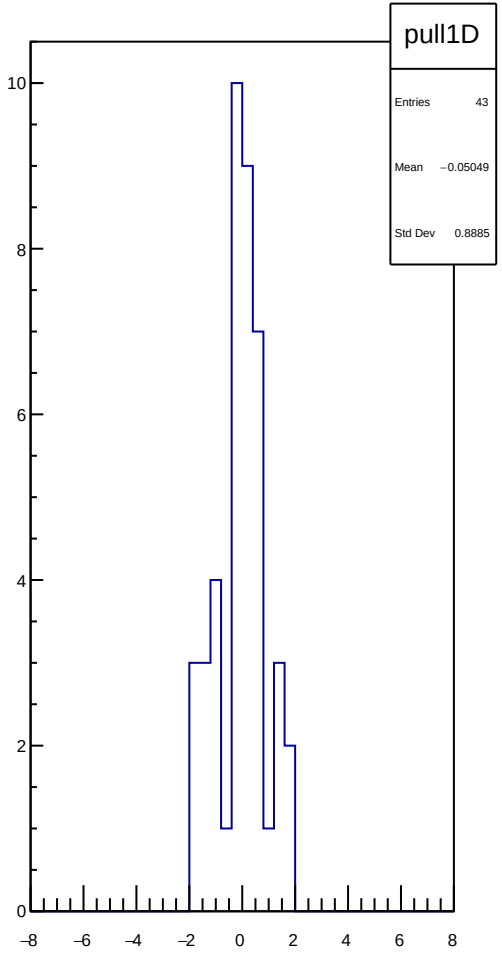

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.923e+04 / 42
p0 364.2 ± 0.3941
650
600
550
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

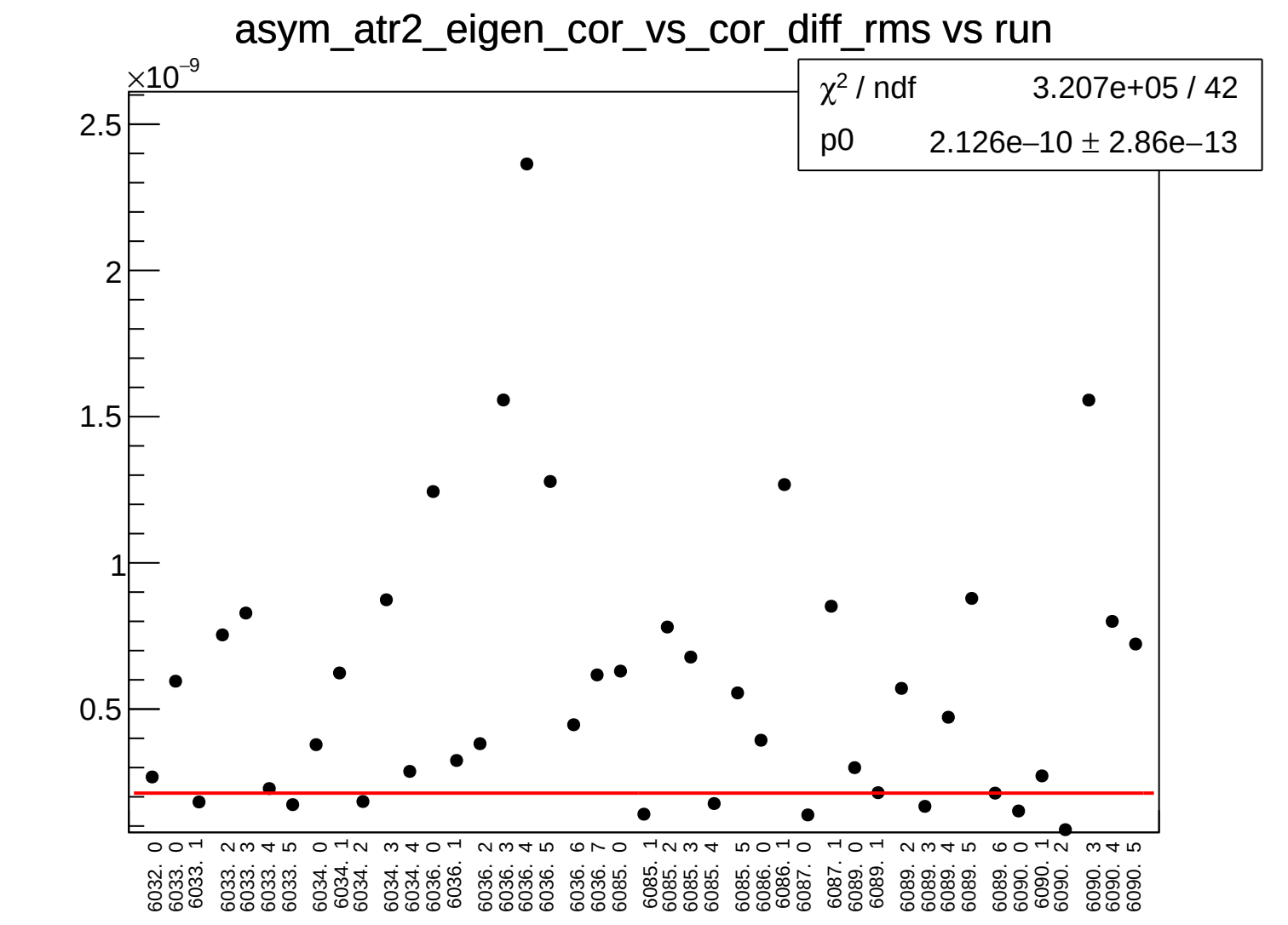

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.68 / 42
p0 −0.9871± 0.5573
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −212
Std Dev 0
2
1
0
−1
−2

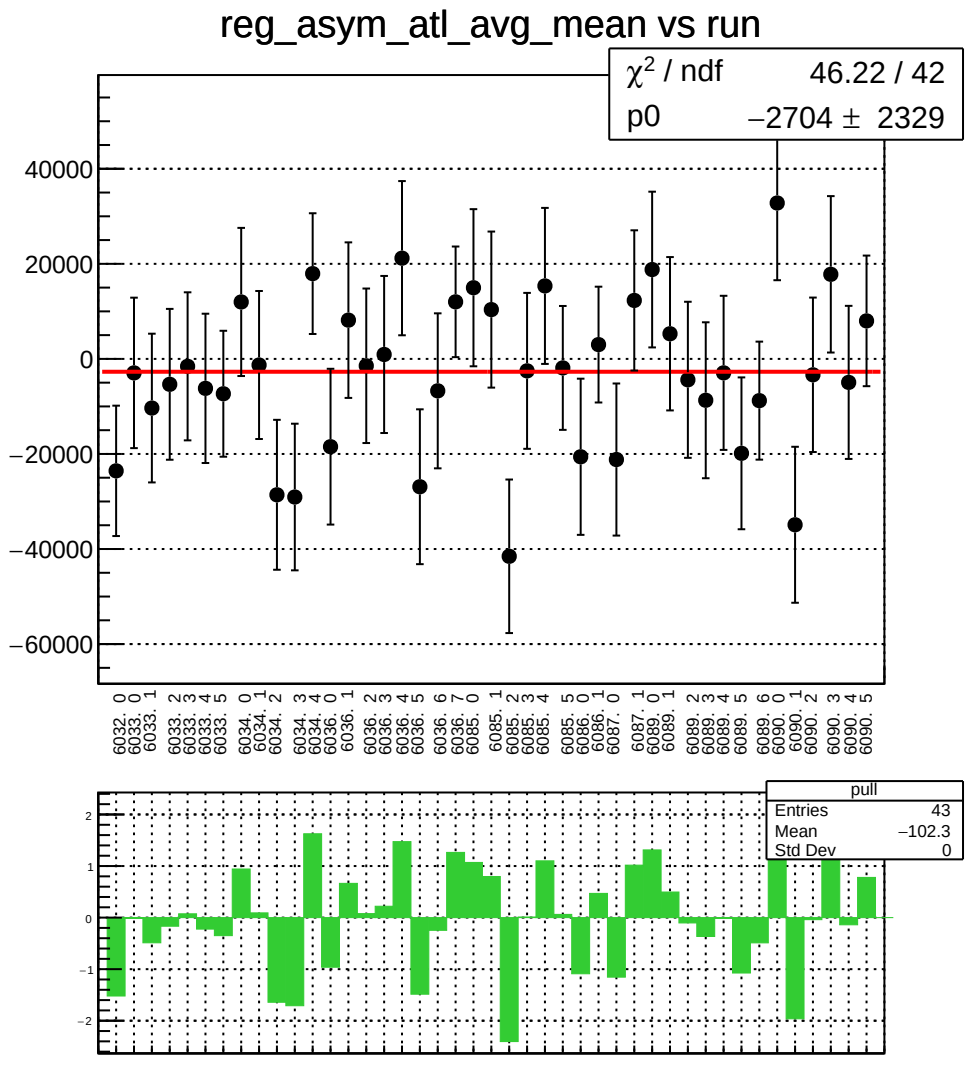

pull1D
Entries 43
Mean −0.006302
Std Dev 0.9484
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

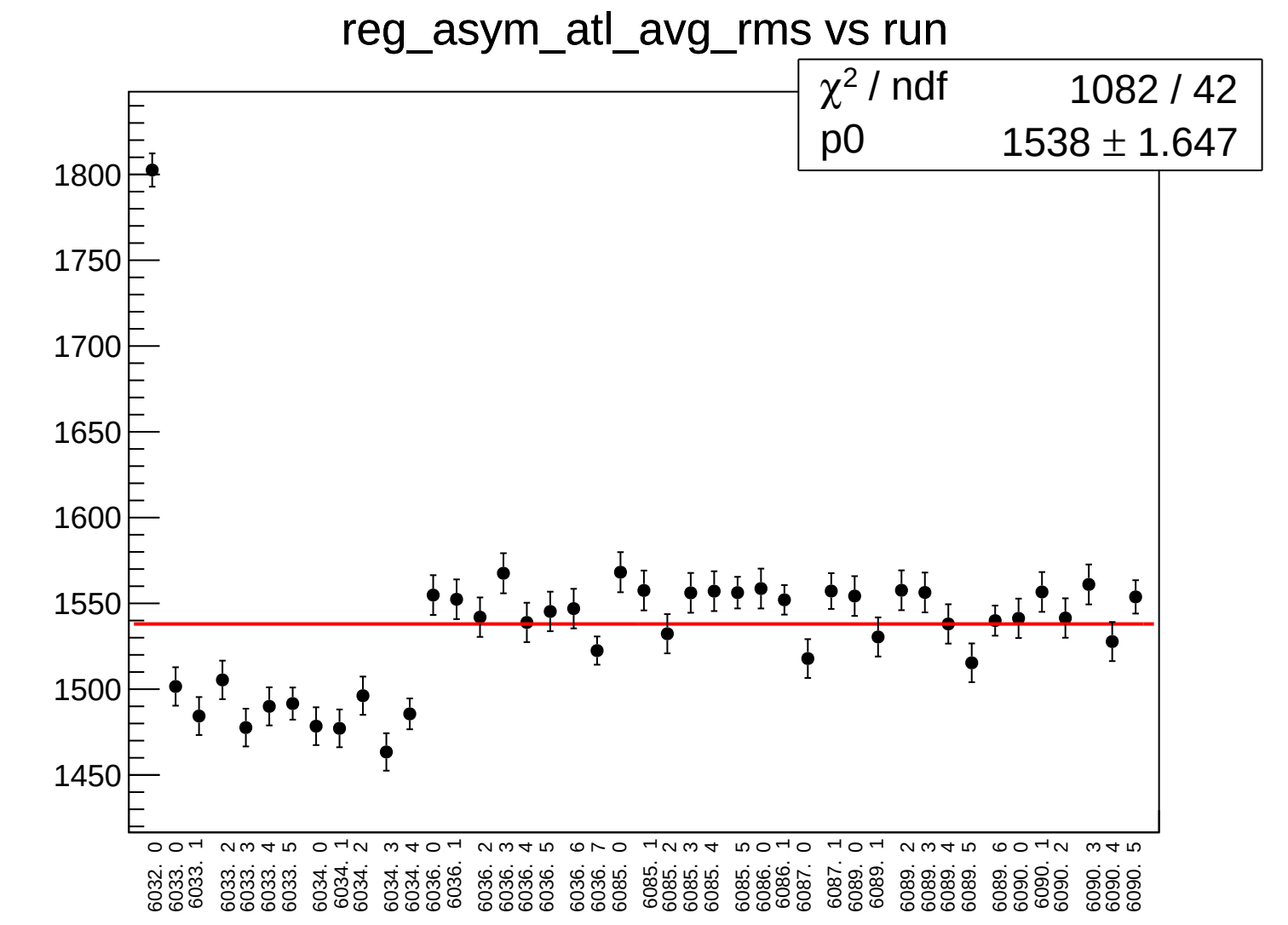

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.923e+04 / 42
p0 364.2 ± 0.3941
650
600
550
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

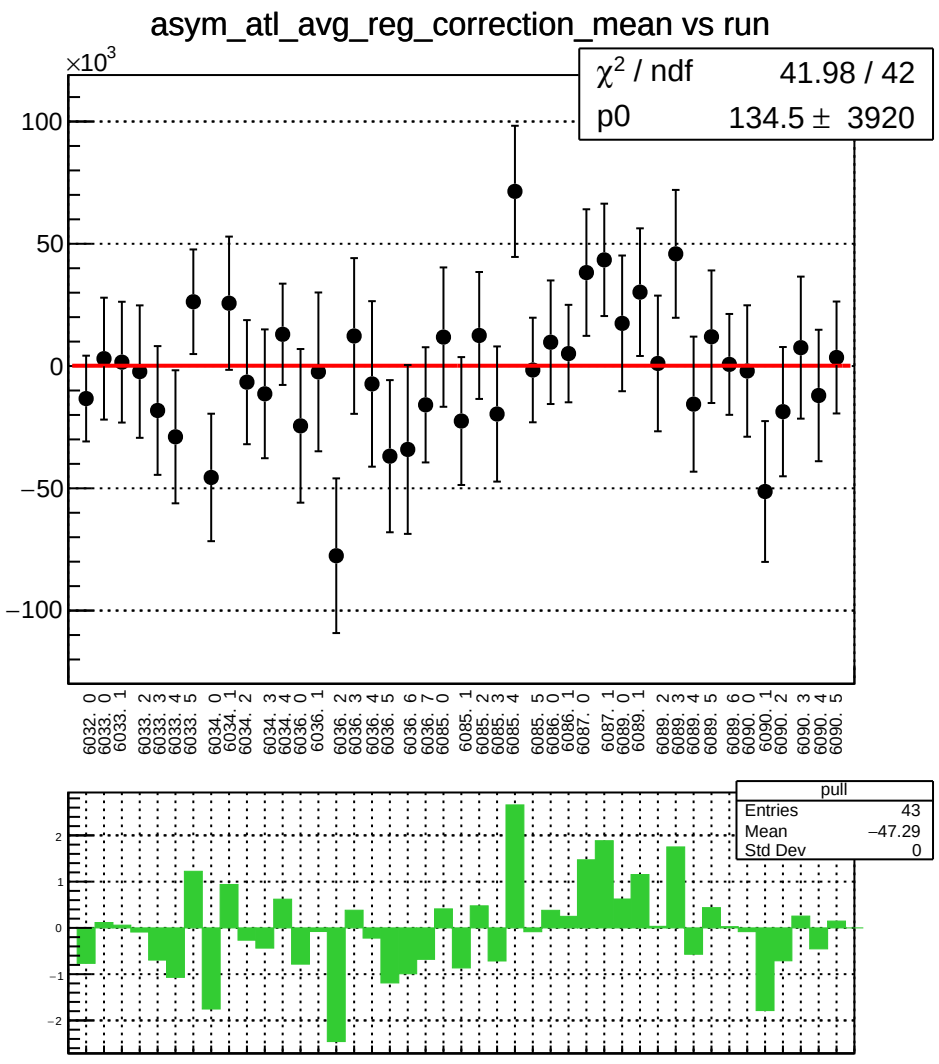

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.06 / 42
p0 −6.771e−13 ± 4.045e−13
pull
Entries 43
Mean 73.42
Std Dev 0

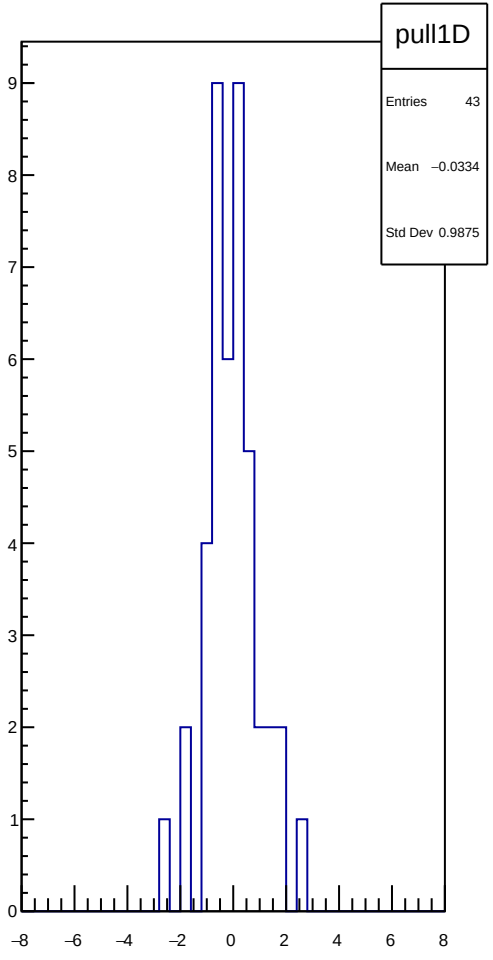

pull1D
Entries 43
Mean −0.05049
Std Dev 0.8885

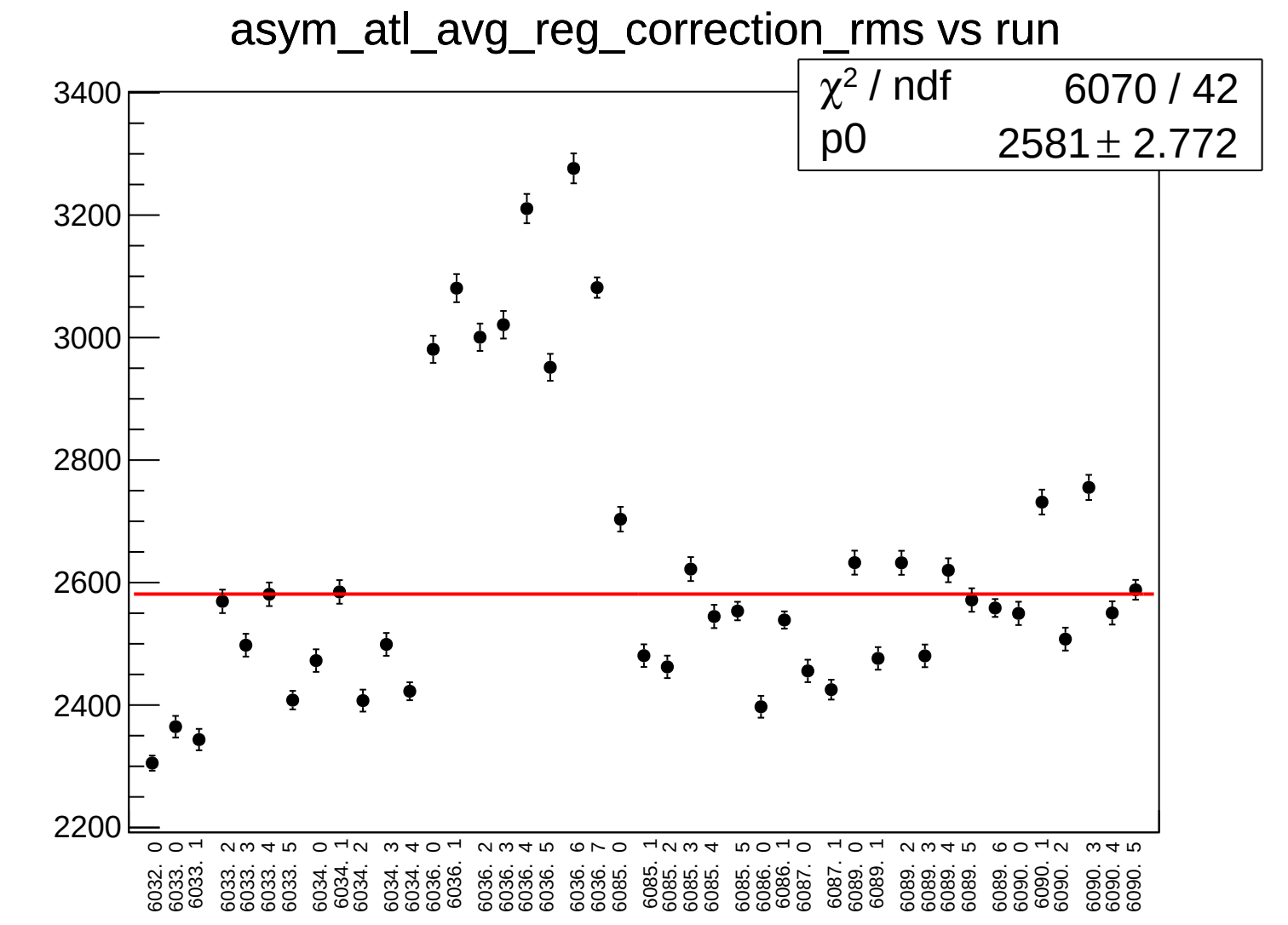

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.207e+05 / 42
p0 2.126e−10 ± 2.86e−13
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

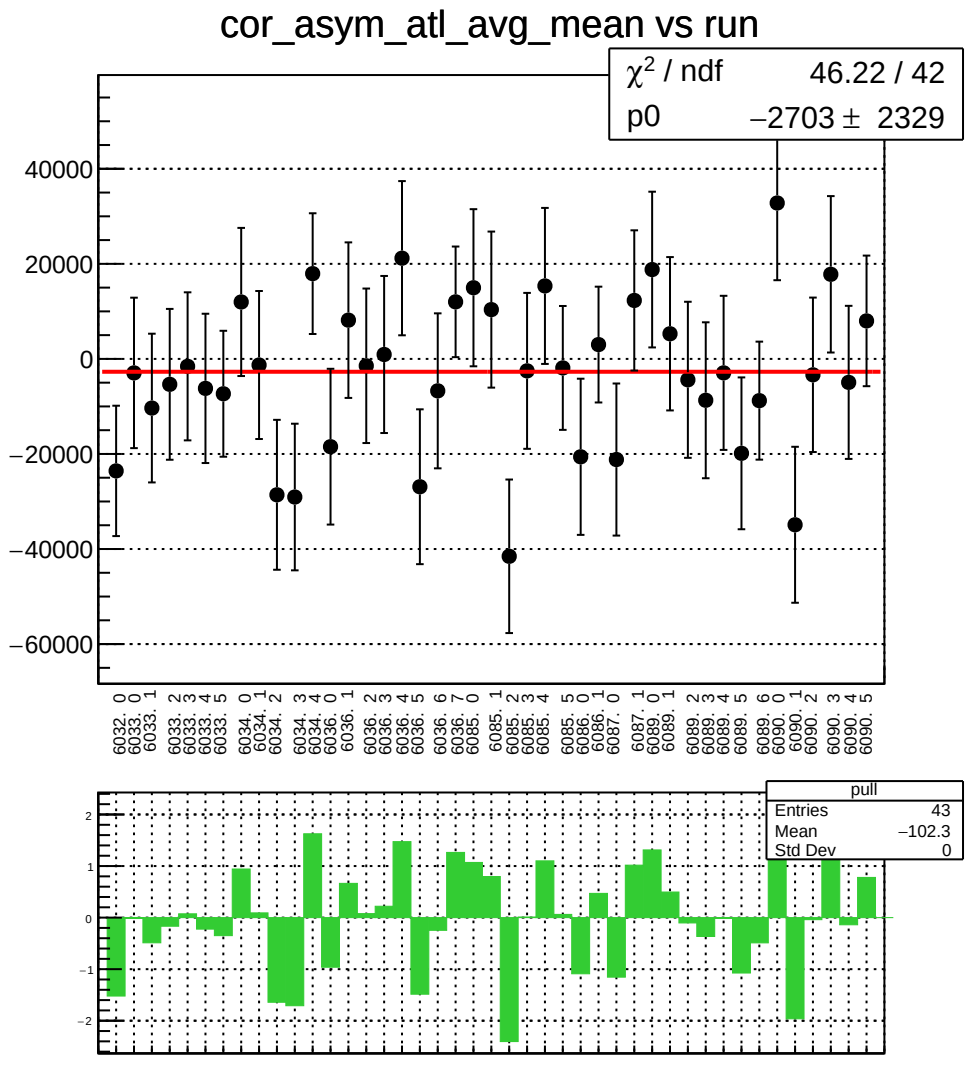

reg_asym_atl_avg_mean vs run
χ² / ndf 46.22 / 42
p0 −2704 ± 2329
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −102.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01551
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_rms vs run
χ² / ndf 1082 / 42
p0 1538 ± 1.647
1800
1750
1700
1650
1600
1550
1500
1450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.98 / 42
p0 134.5 ± 3920
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −47.29
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.0334
Std Dev 0.9875
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_reg_correction_rms vs run
χ² / ndf 6070 / 42
p0 2581 ± 2.772
3400
3200
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_atl_avg_mean vs run
χ² / ndf 46.22 / 42
p0 −2703 ± 2329
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
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6085. 0
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6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −102.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01551
Std Dev 1.037
10
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6
4
2
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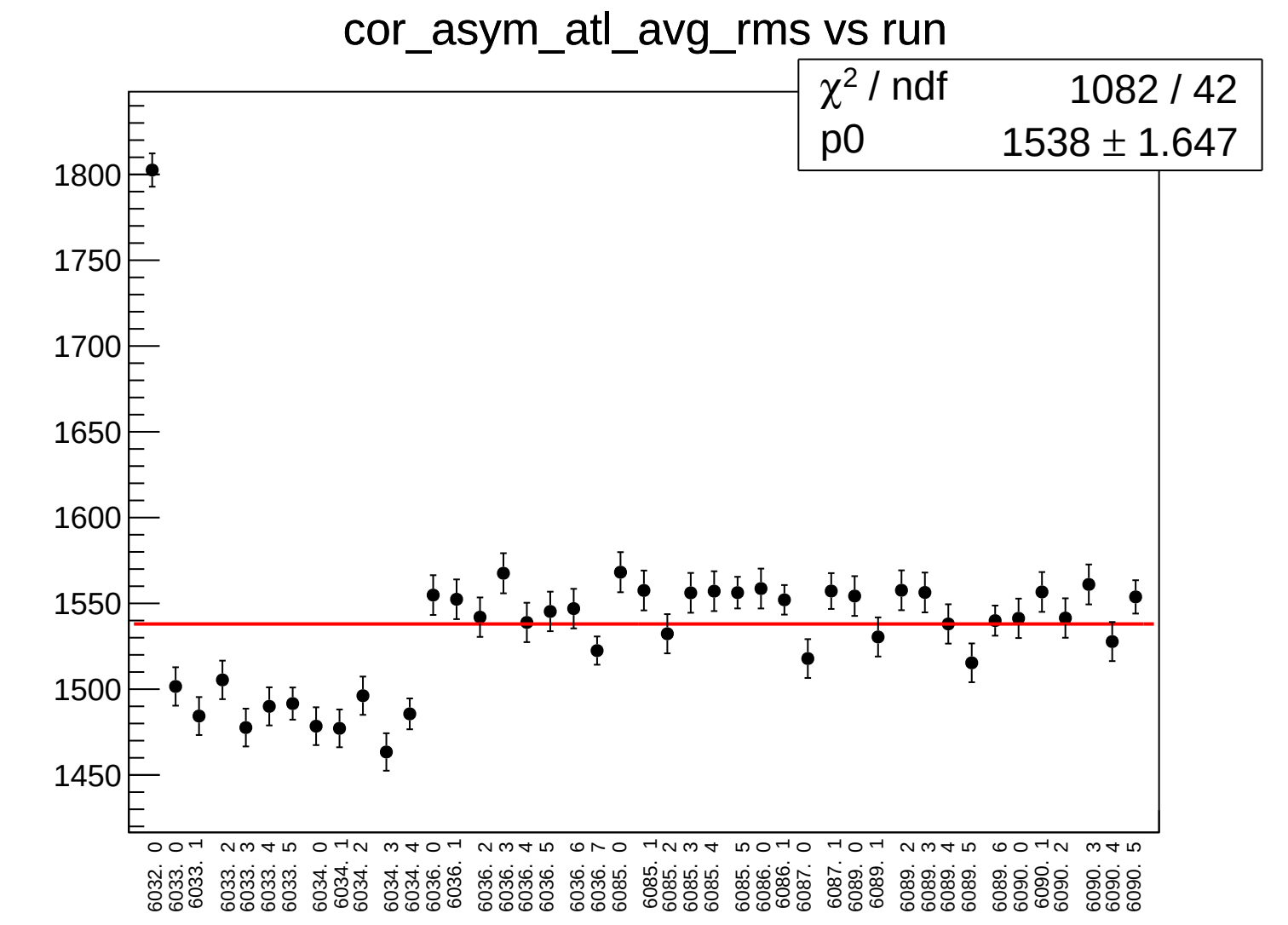
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_rms vs run
χ² / ndf 1082 / 42
p0 1538 ± 1.647
1800
1750
1700
1650
1600
1550
1500
1450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
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6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
6090. 0
6090. 1
6090. 2
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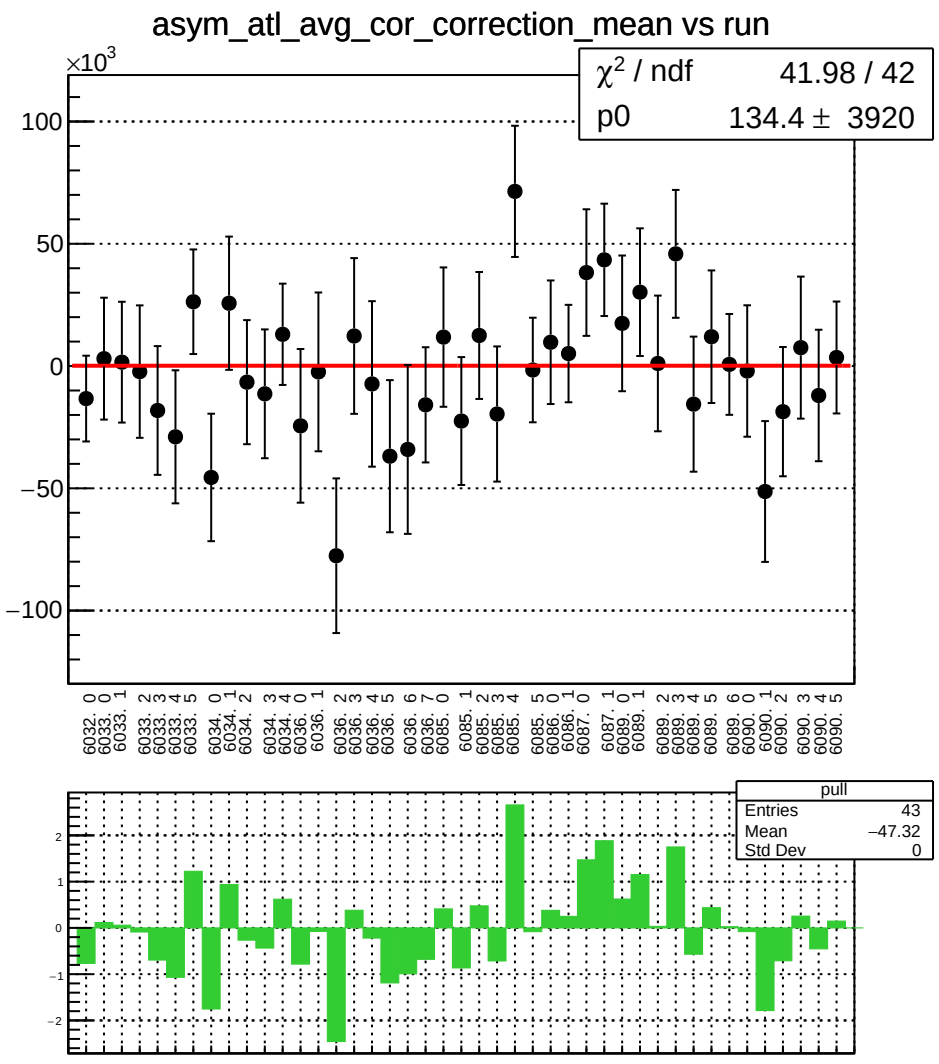
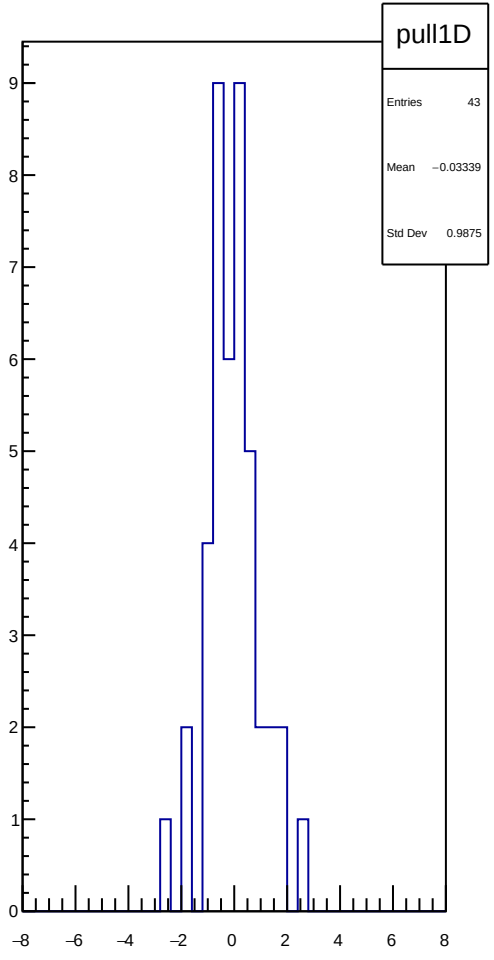
6090. 4
6090. 5


asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 41.98 / 42
p0 134.4 ± 3920
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −47.32
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.03339
Std Dev 0.9875
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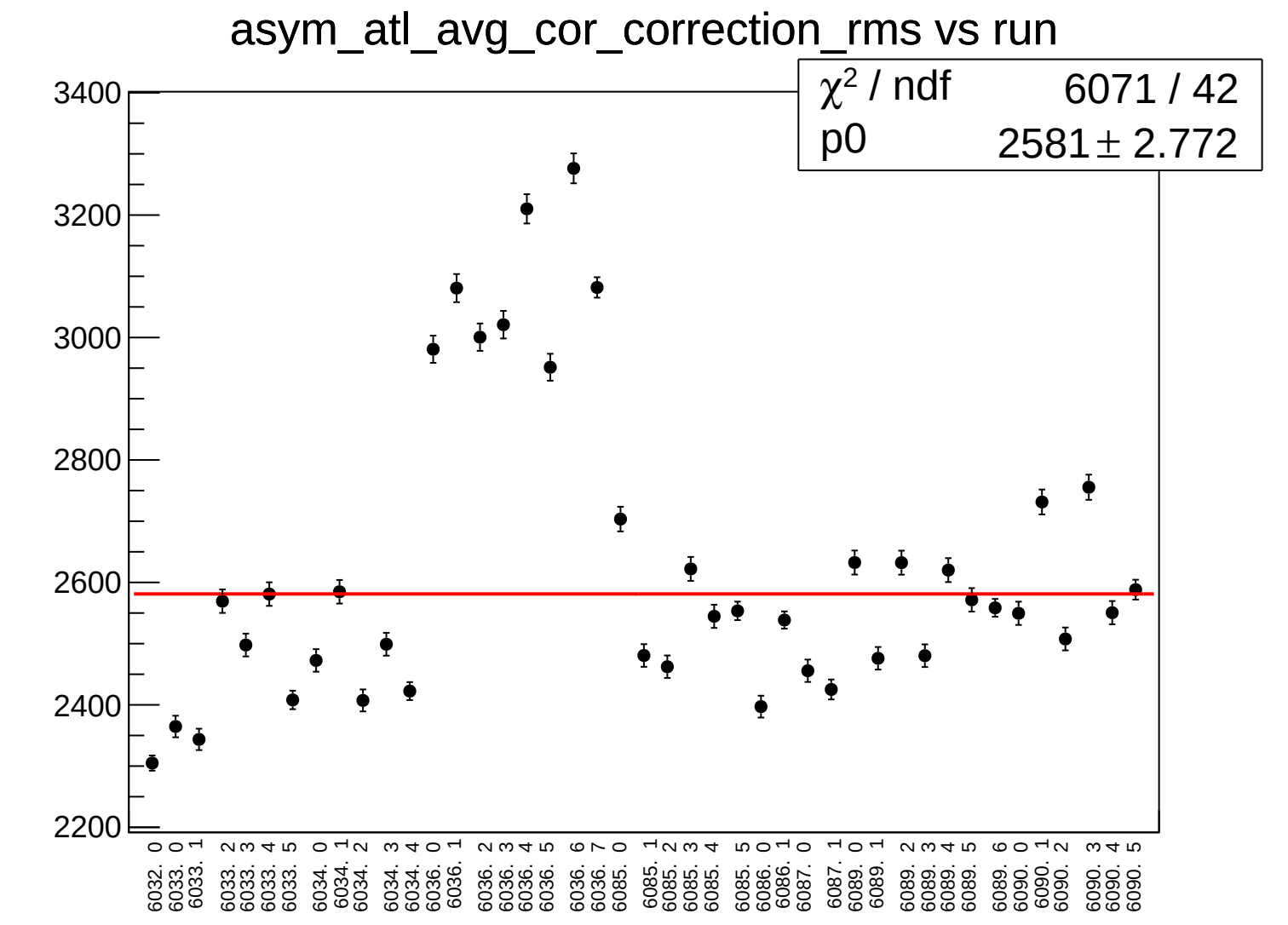
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 6071 / 42
p0 2581 ± 2.772
3400
3200
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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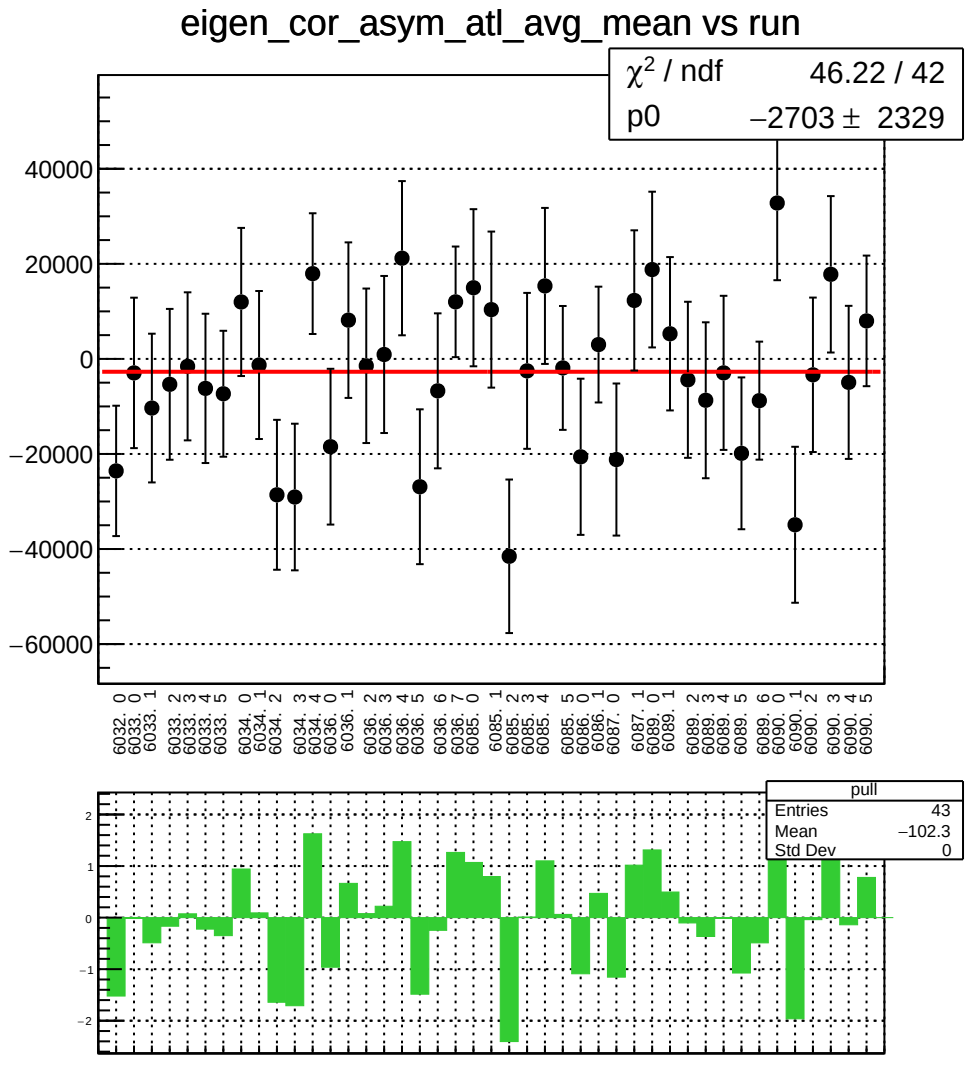
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 46.22 / 42
p0 −2703 ± 2329
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −102.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01551
Std Dev 1.037
10
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6
4
2
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−8
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−4
−2
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2
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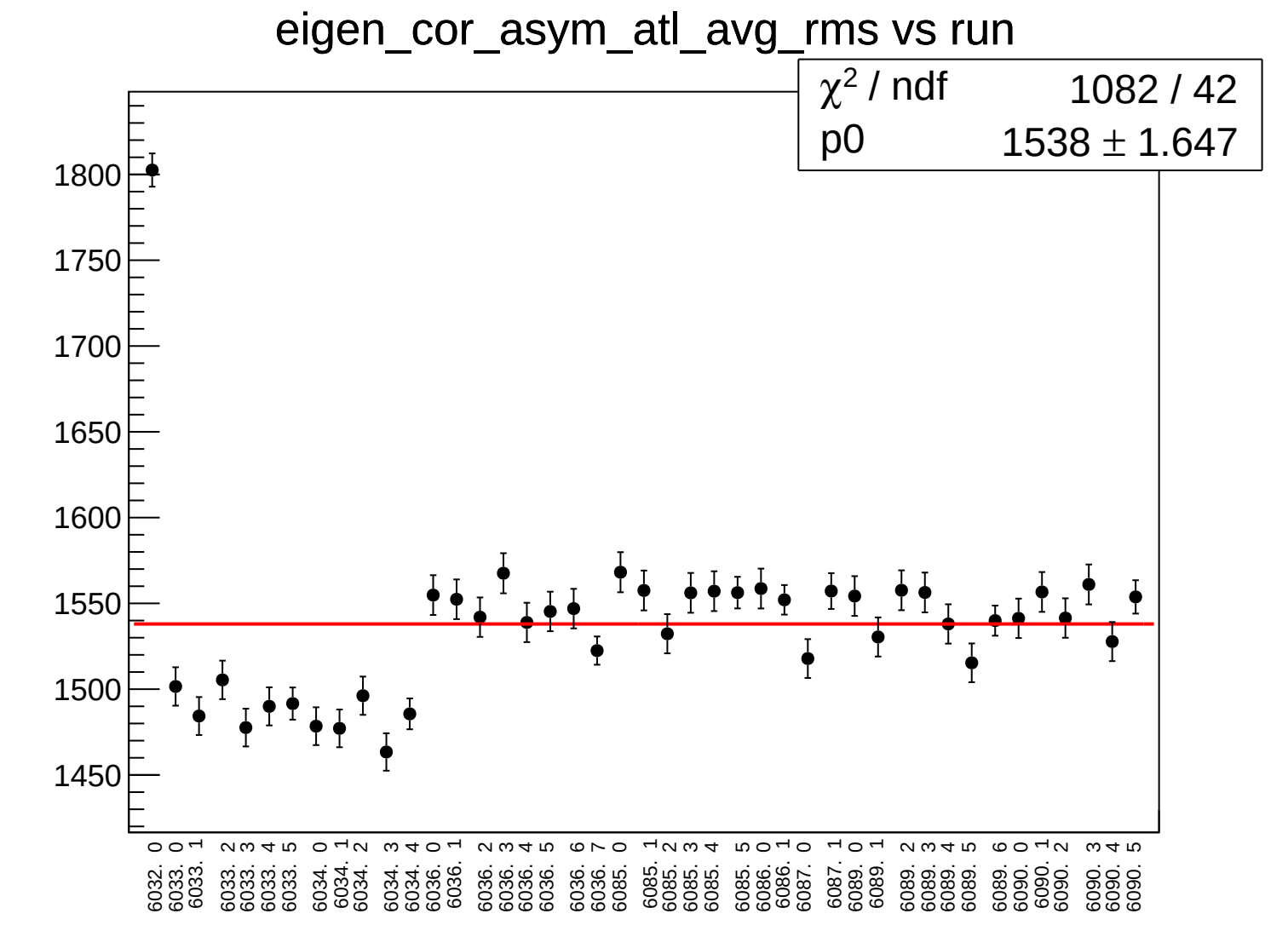
eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 1082 / 42
p0 1538 ± 1.647
1800
1750
1700
1650
1600
1550
1500
1450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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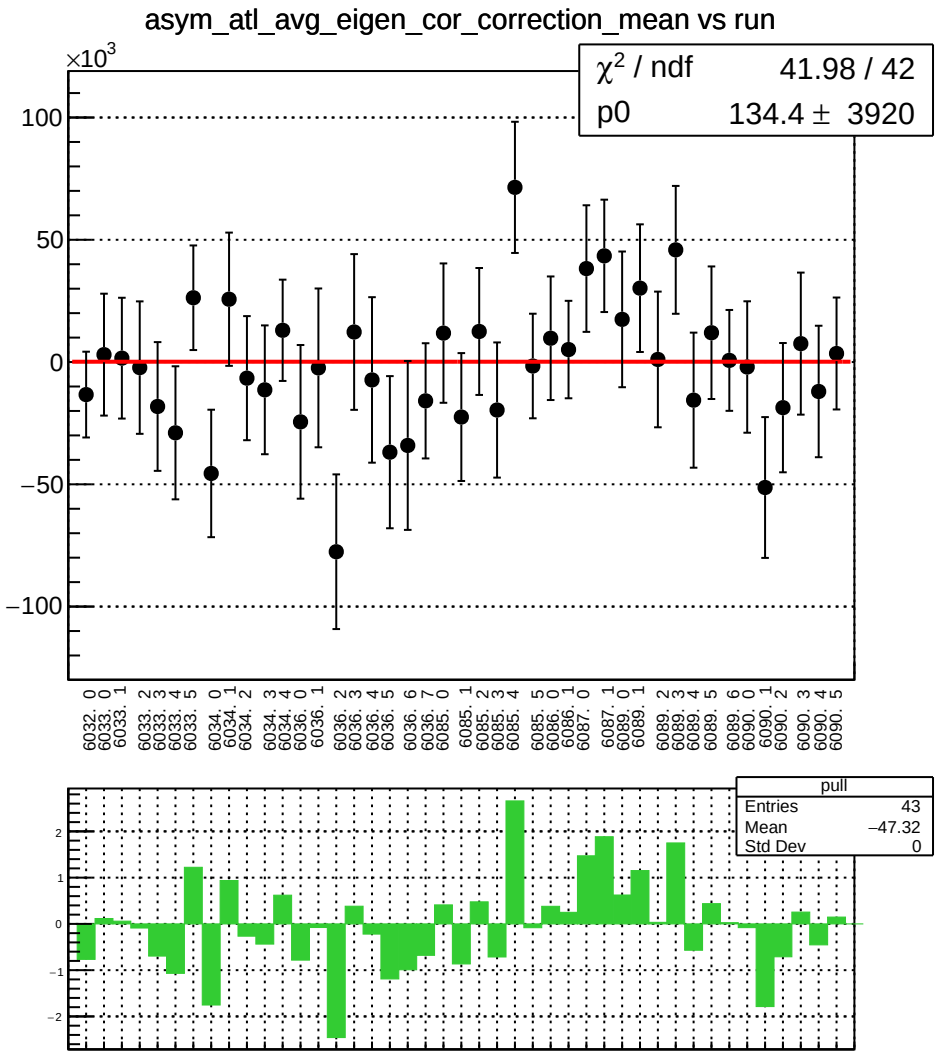
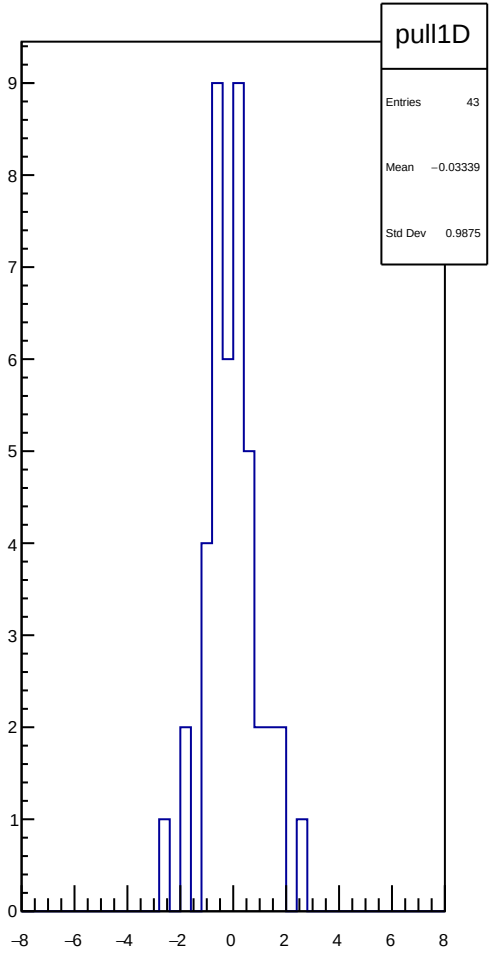
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.98 / 42
p0 134.4 ± 3920
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −47.32
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.03339
Std Dev 0.9875
9
8
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2
1
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−8
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−4
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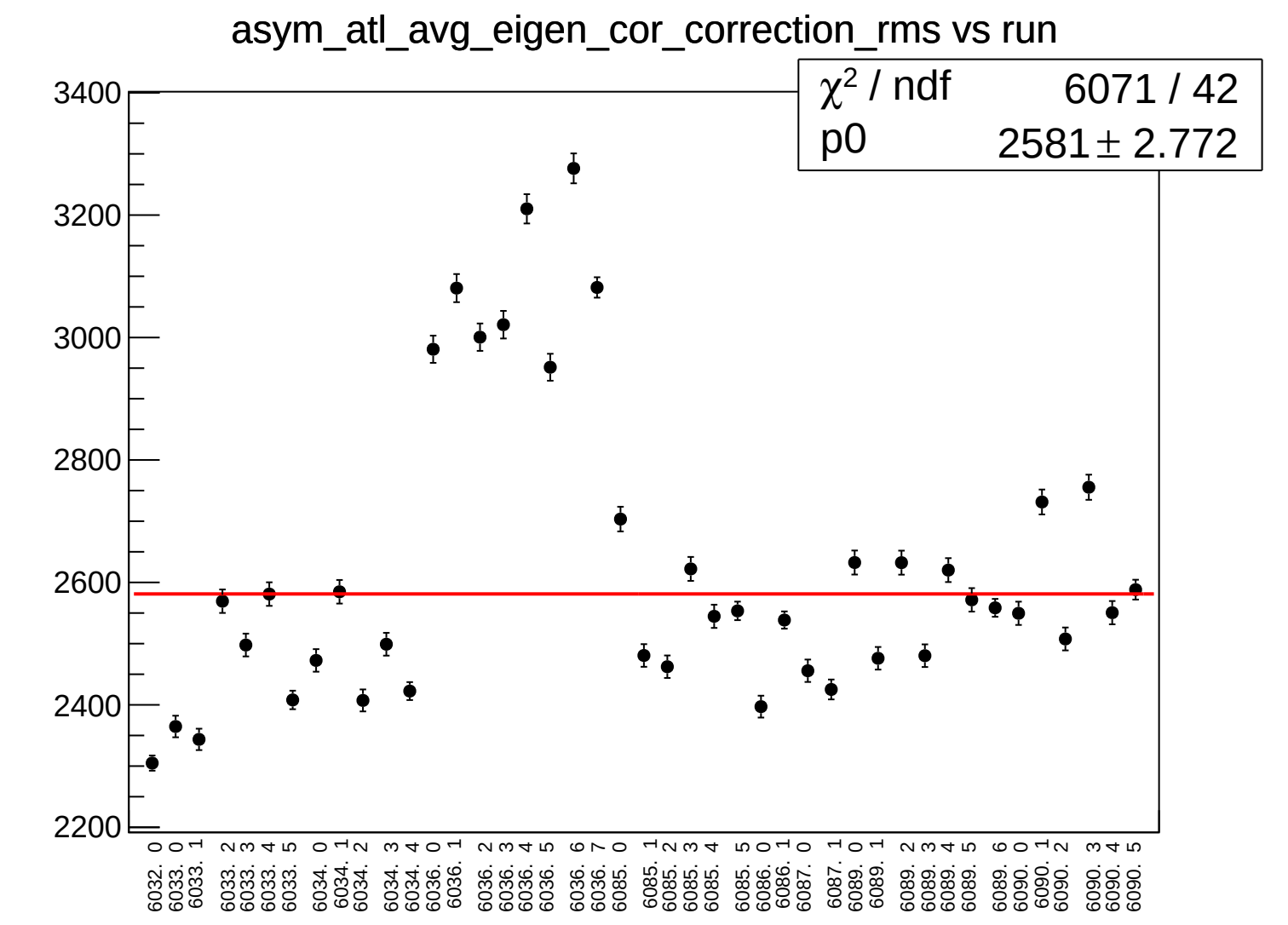
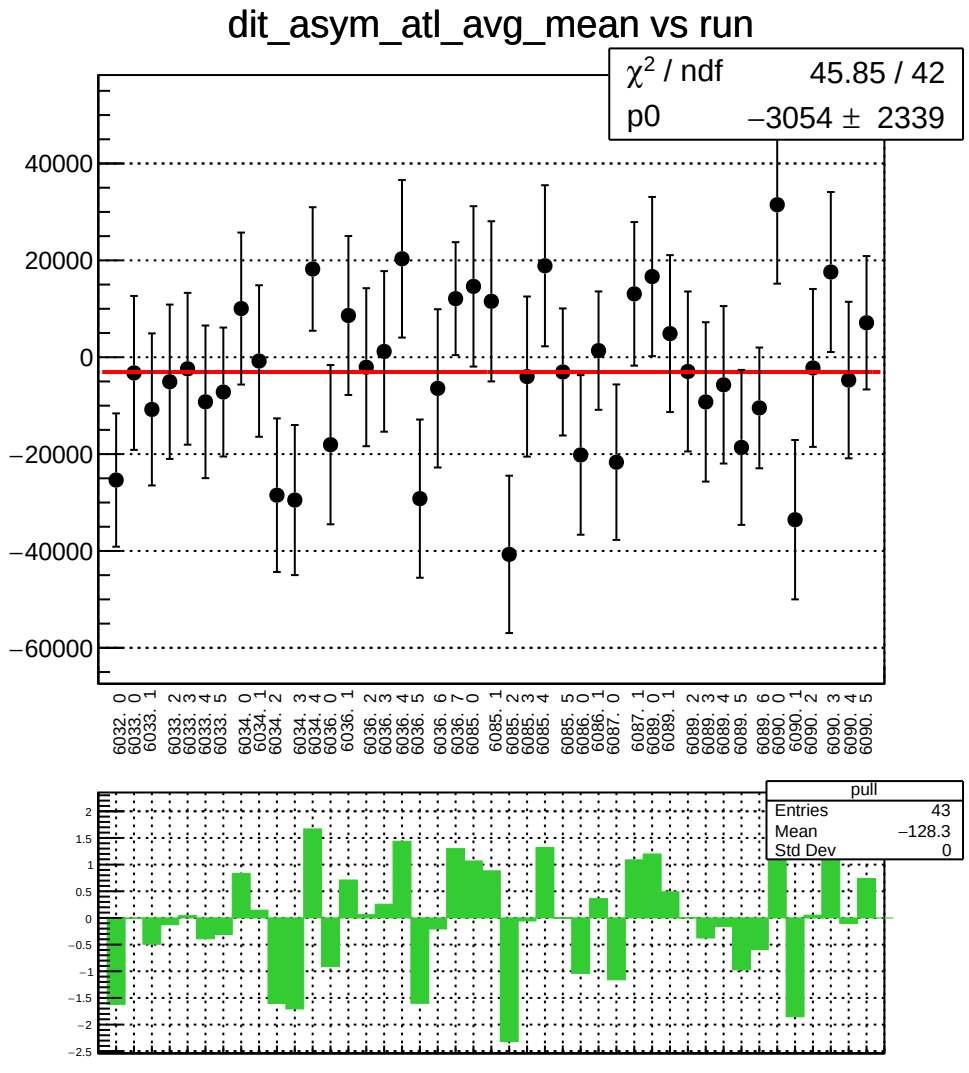
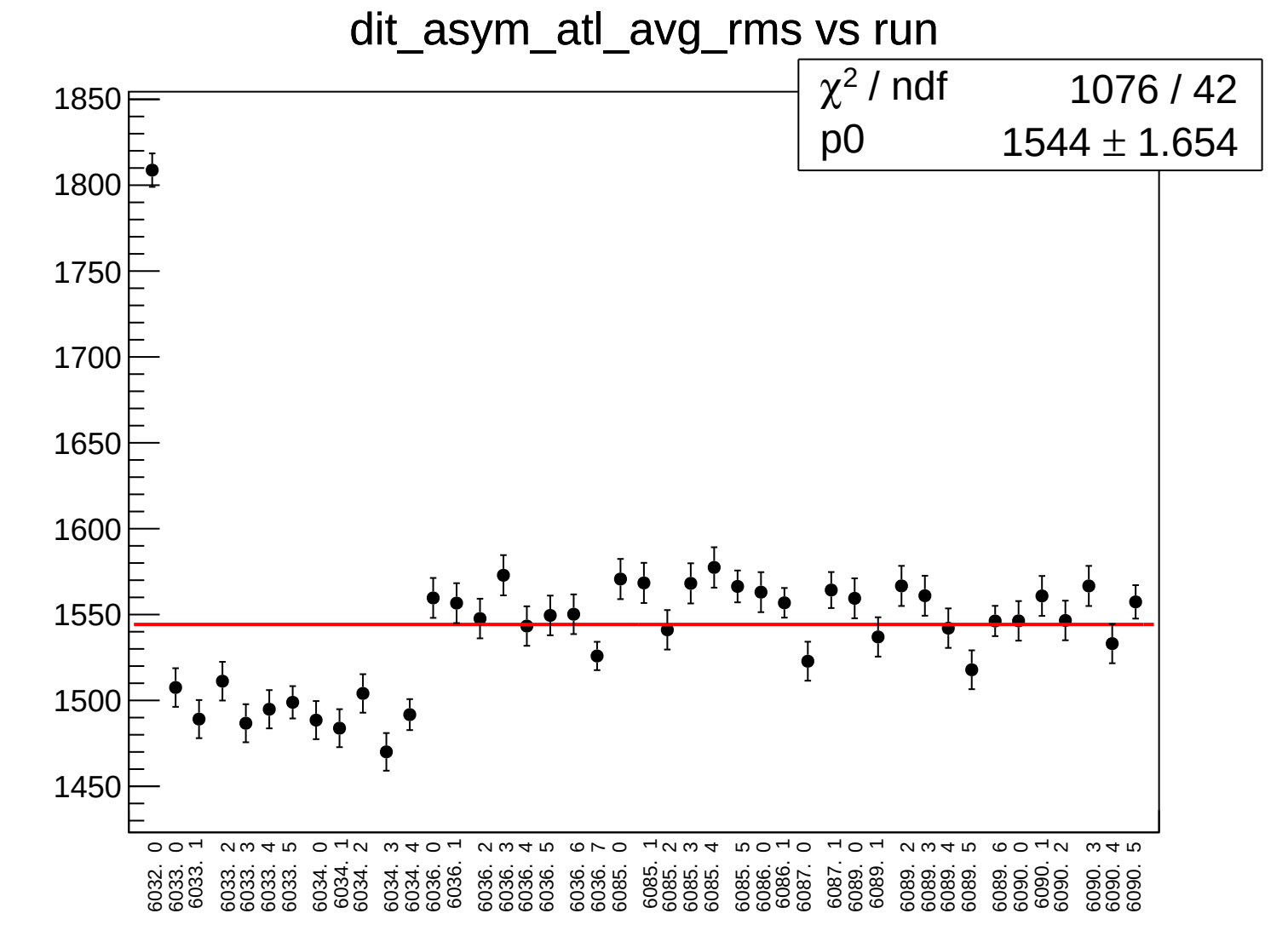
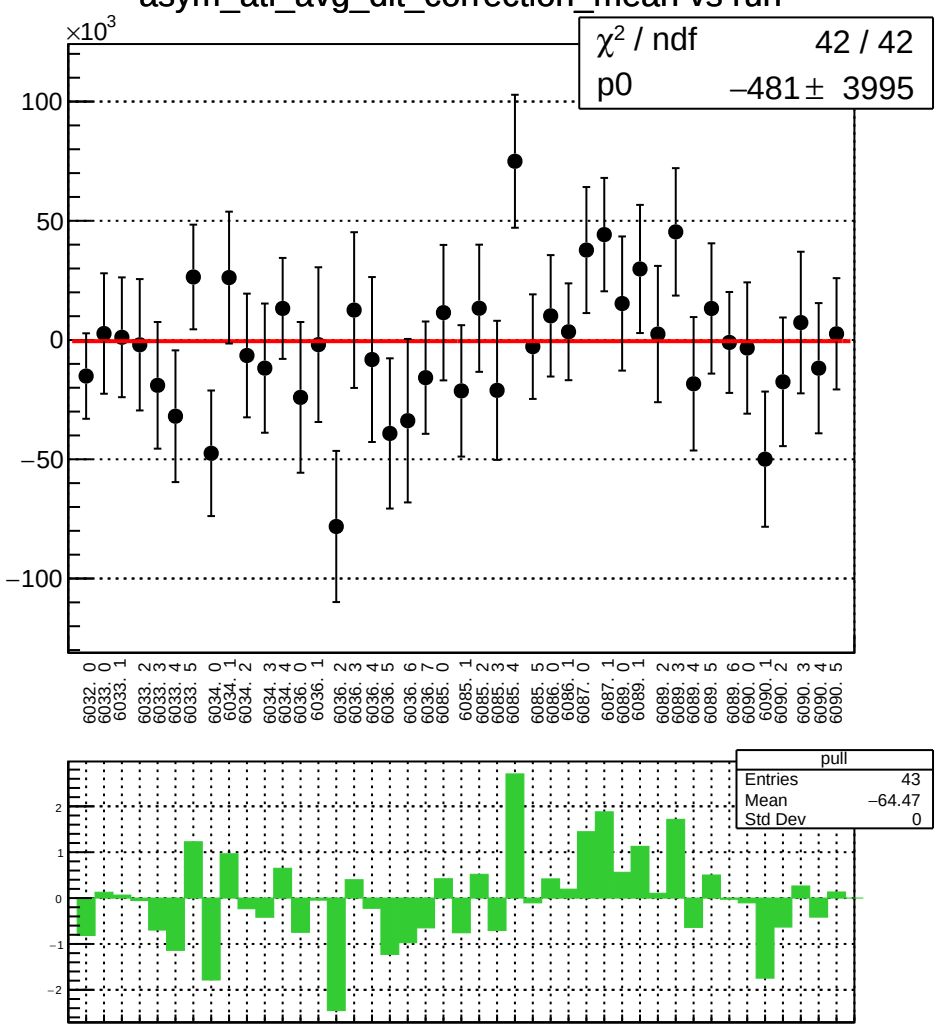
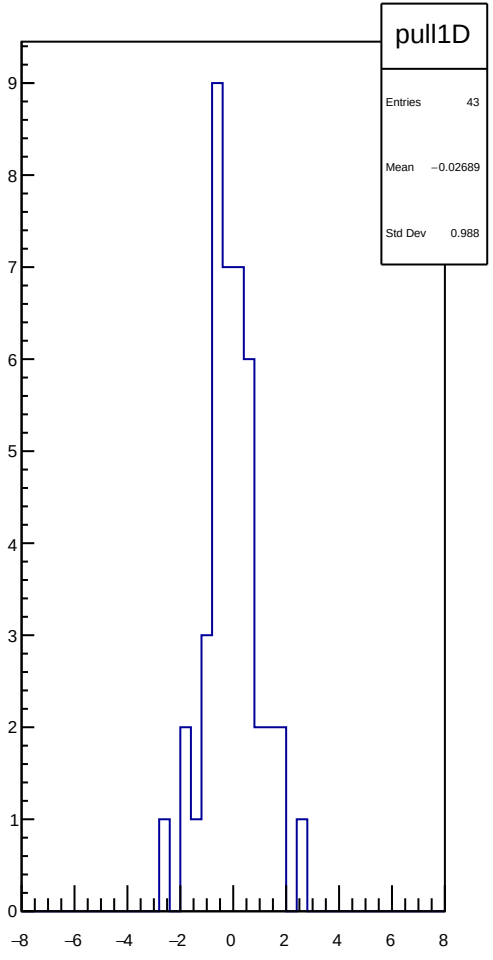
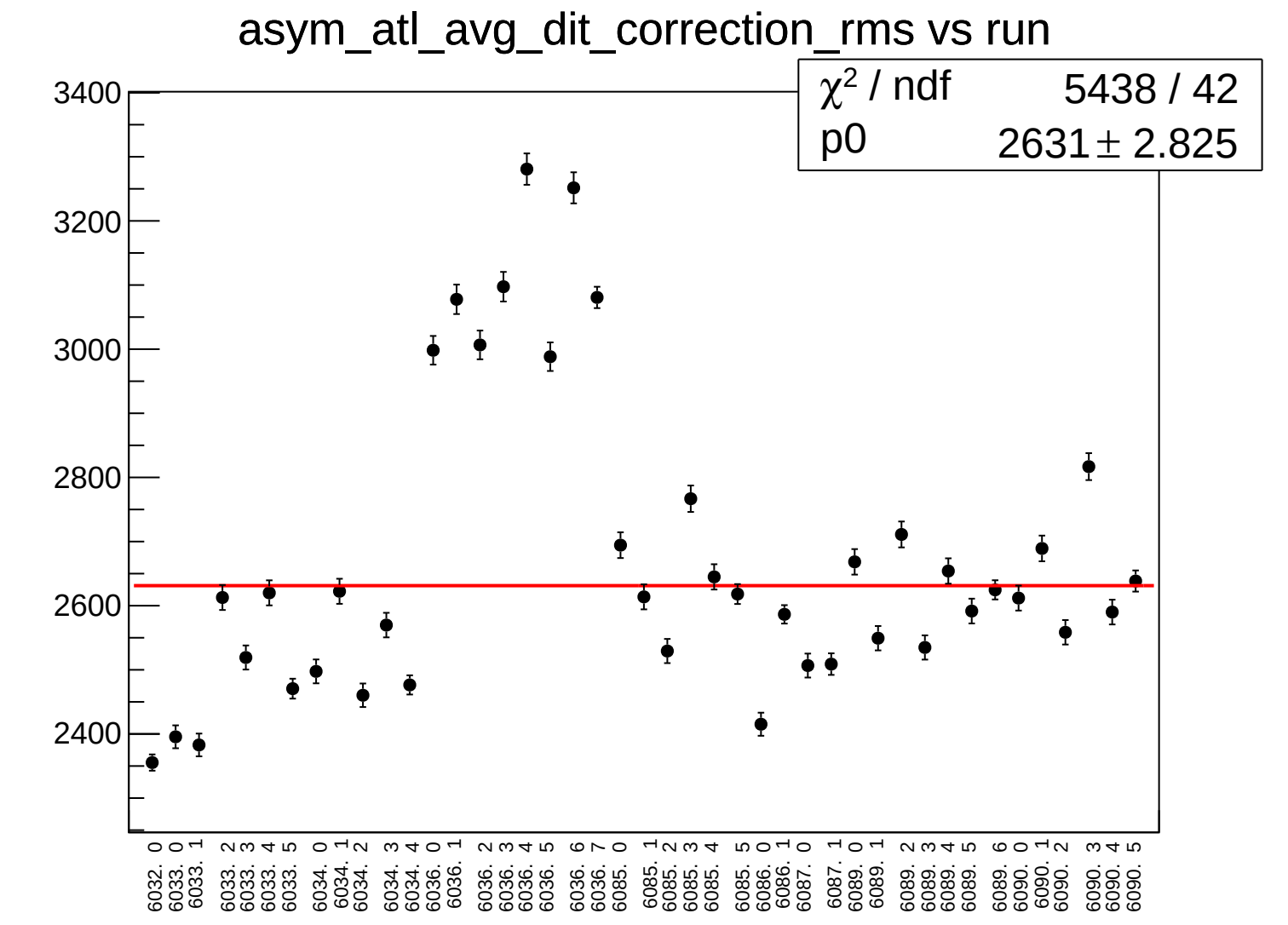

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 6071 / 42
p0 2581 ± 2.772
3400
3200
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_atl_avg_mean vs run
χ² / ndf 45.85 / 42
p0 −3054 ± 2339
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −128.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01348
Std Dev 1.033
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 1076 / 42
p0 1544 ± 1.654
1850
1800
1750
1700
1650
1600
1550
1500
1450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 42 / 42
p0 −481 ± 3995
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.47
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.02689
Std Dev 0.988
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5438 / 42
p0 2631 ± 2.825
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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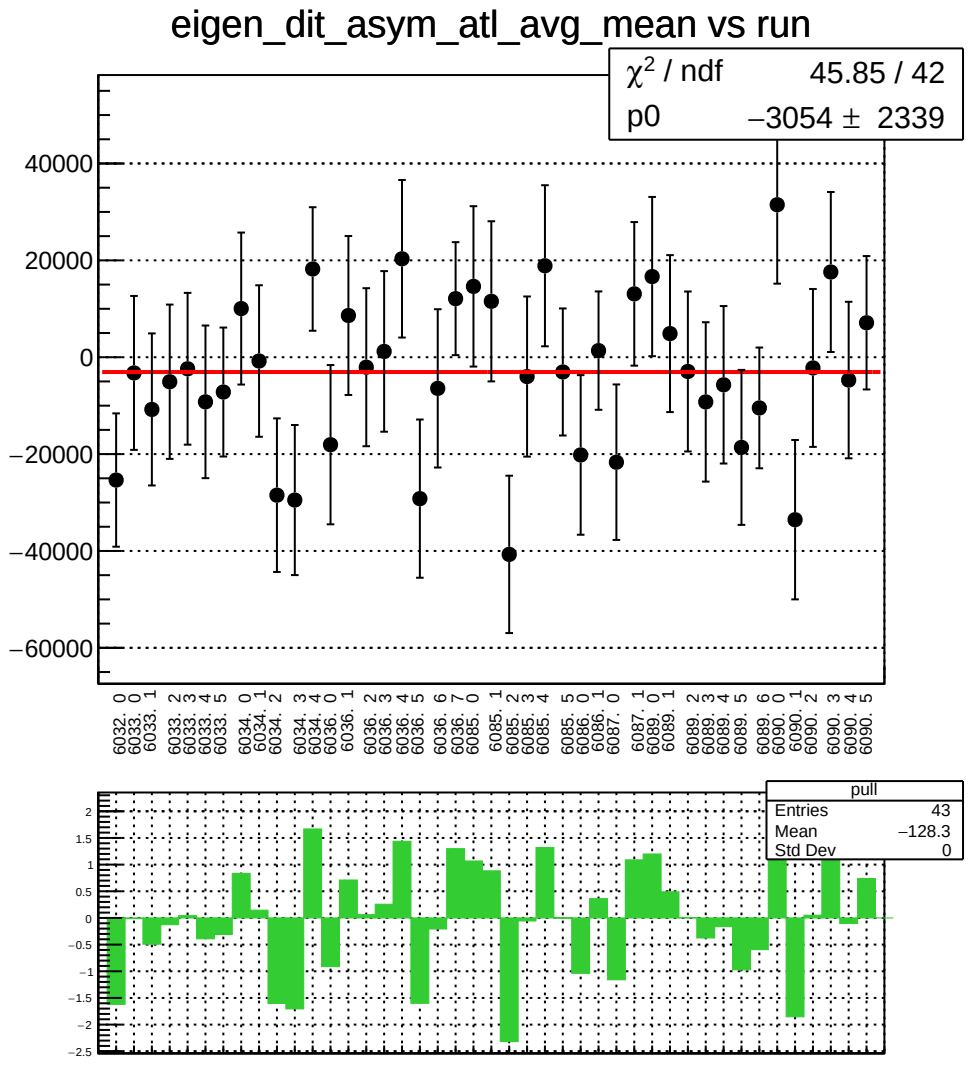
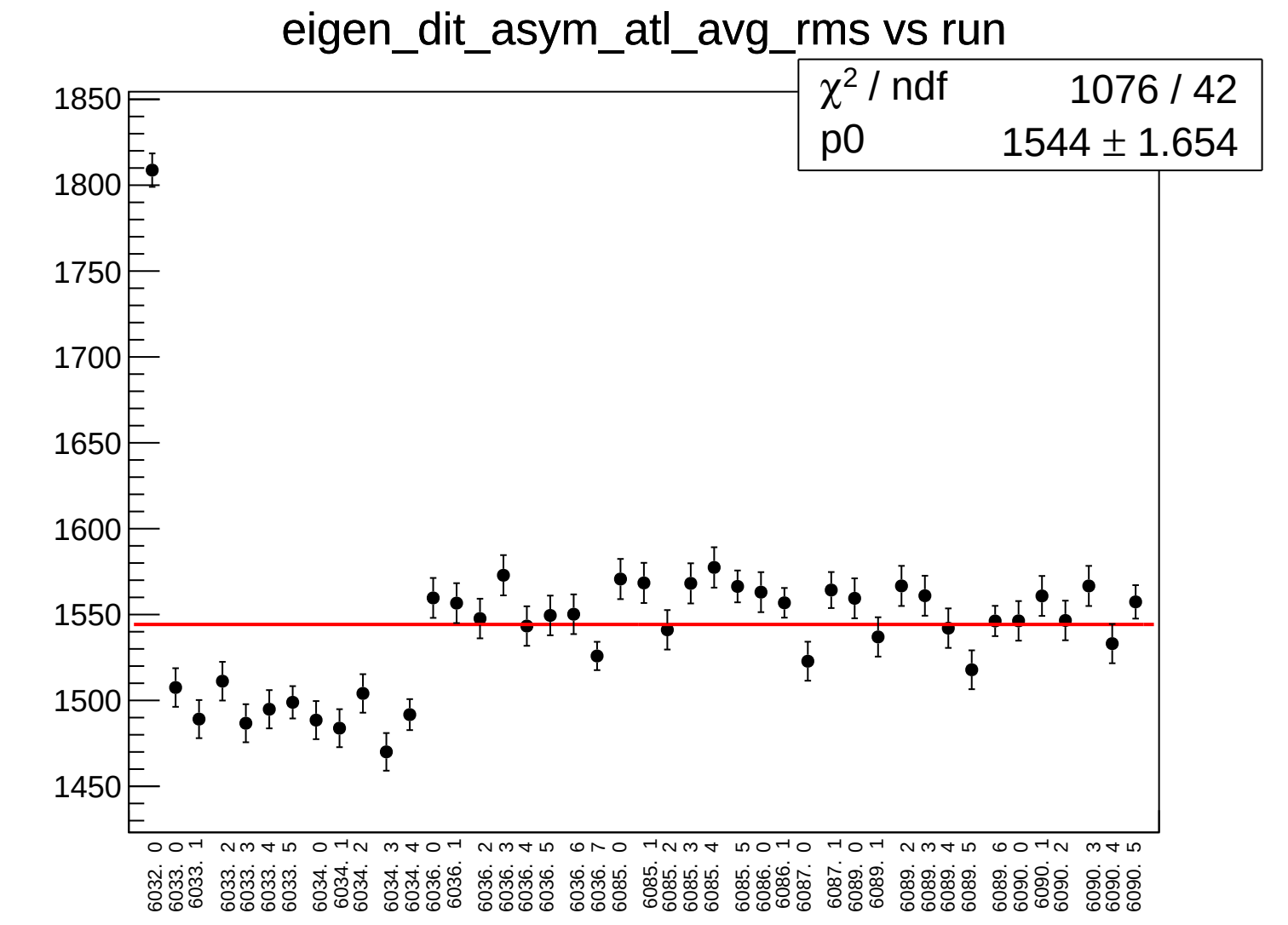
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 45.85 / 42
p0 −3054 ± 2339
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −128.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01348
Std Dev 1.033
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 1076 / 42
p0 1544 ± 1.654
1850
1800
1750
1700
1650
1600
1550
1500
1450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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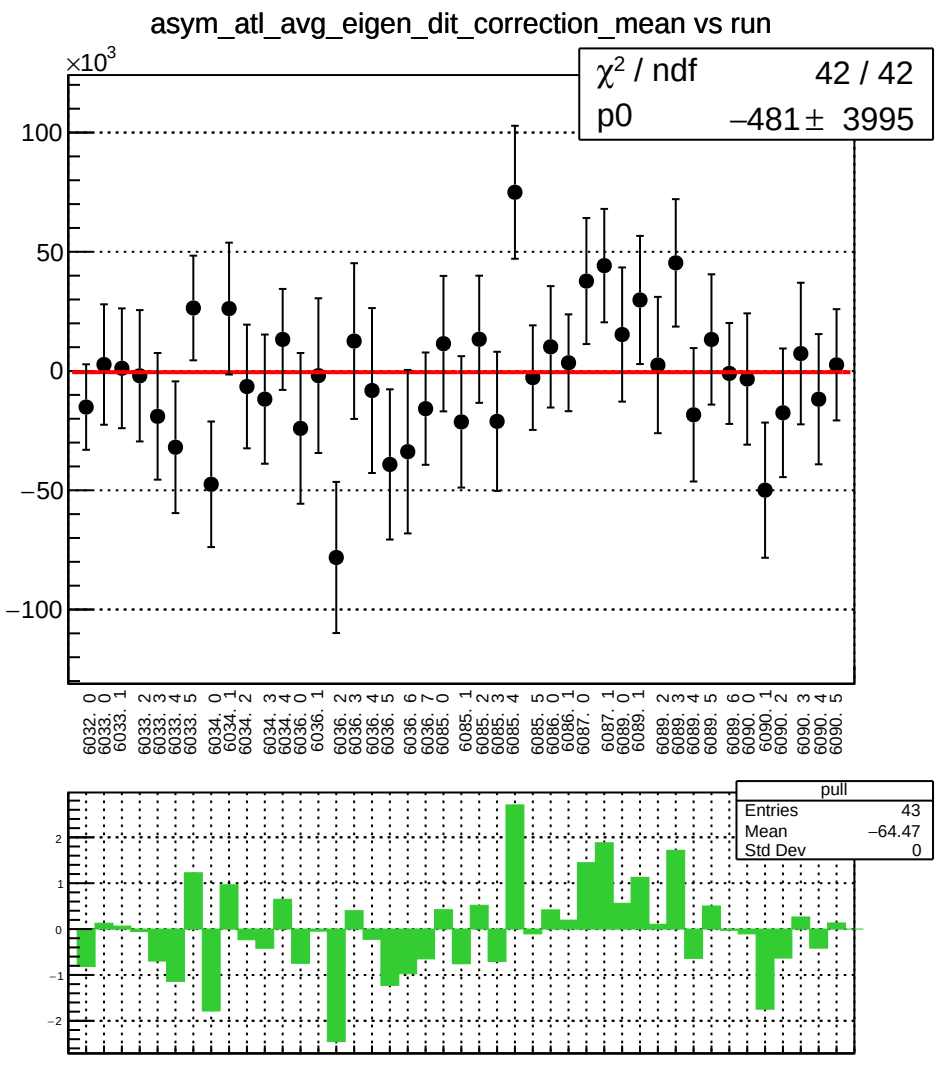
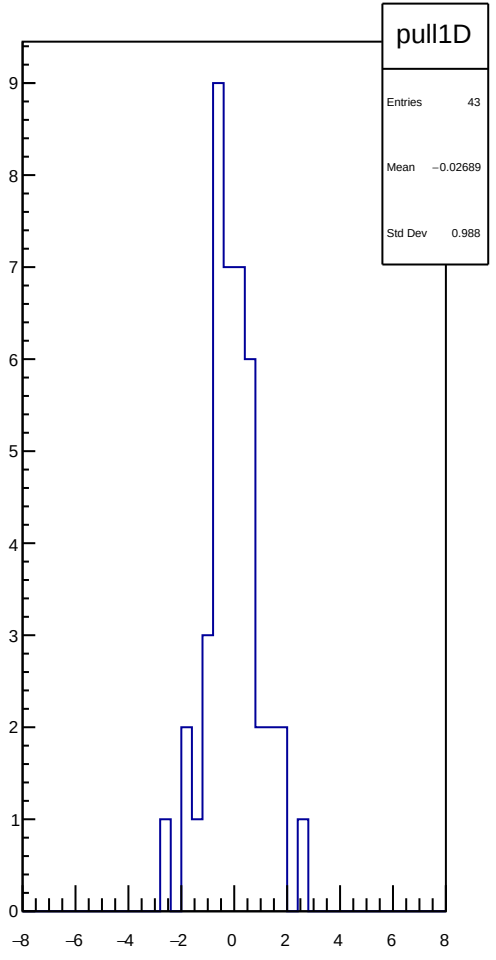
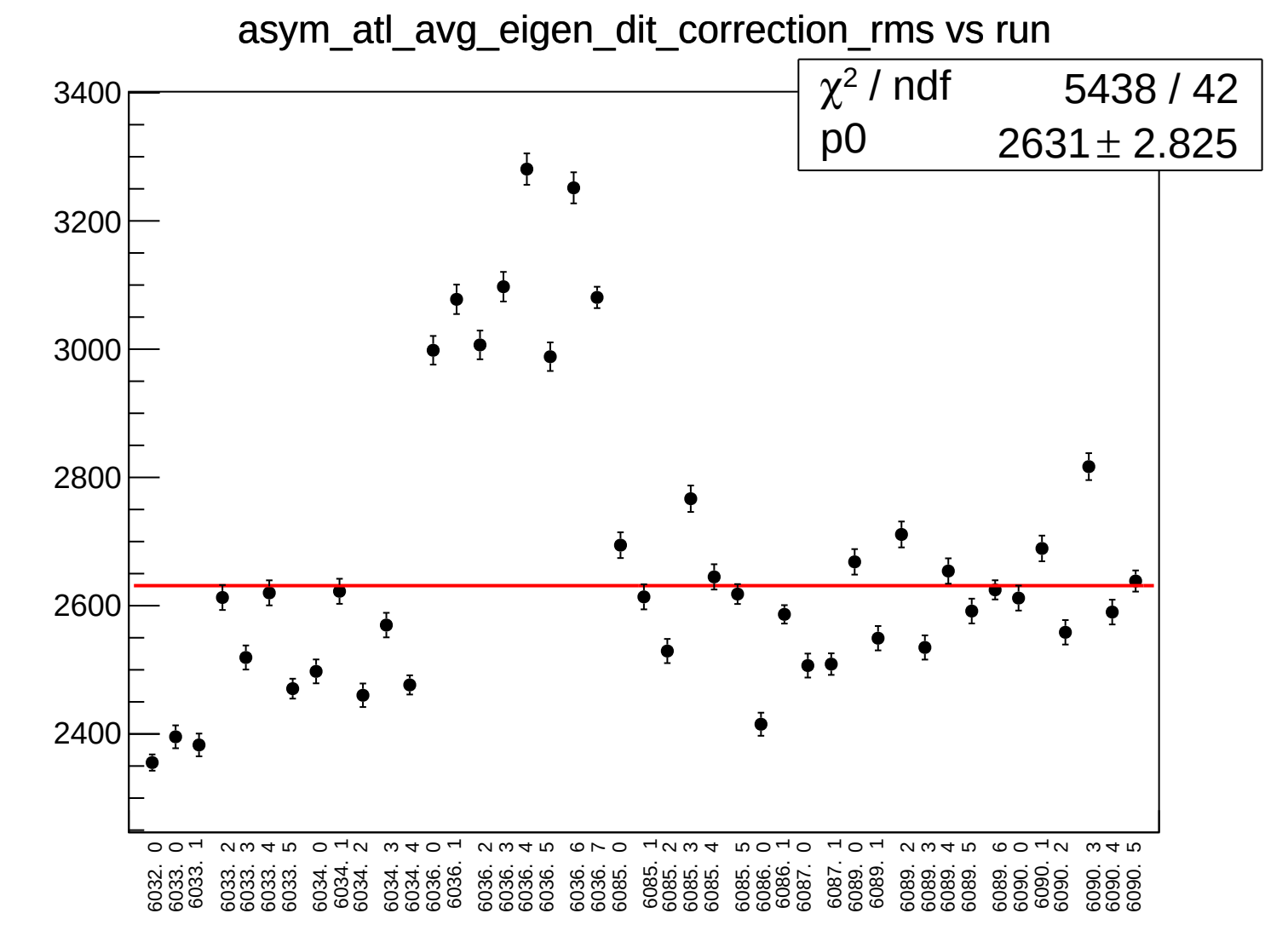
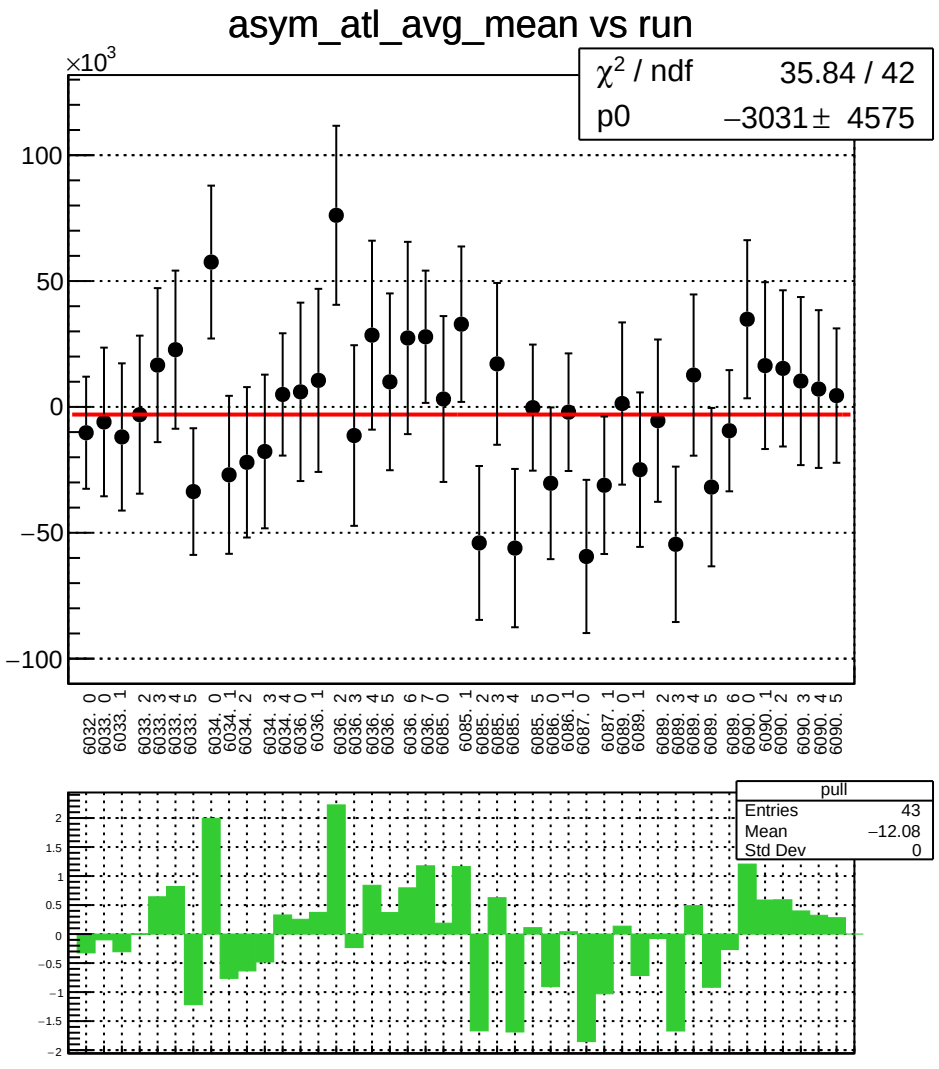
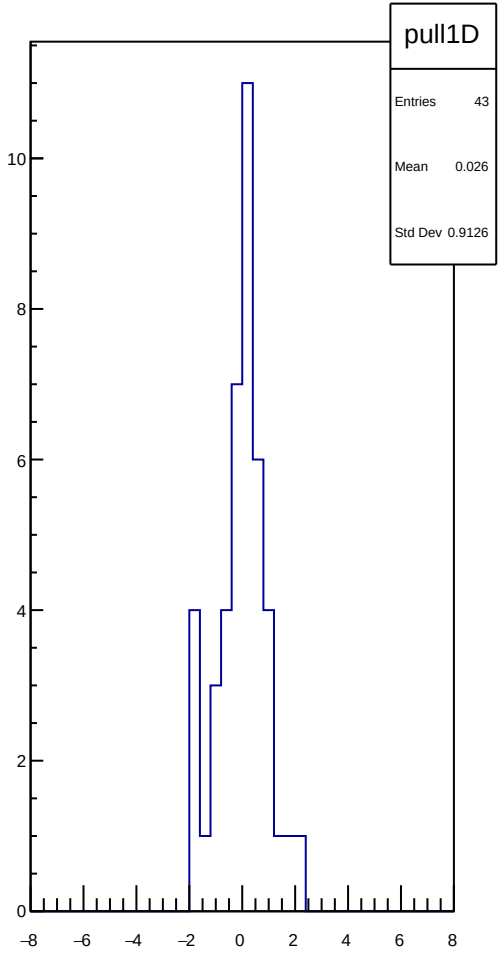
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

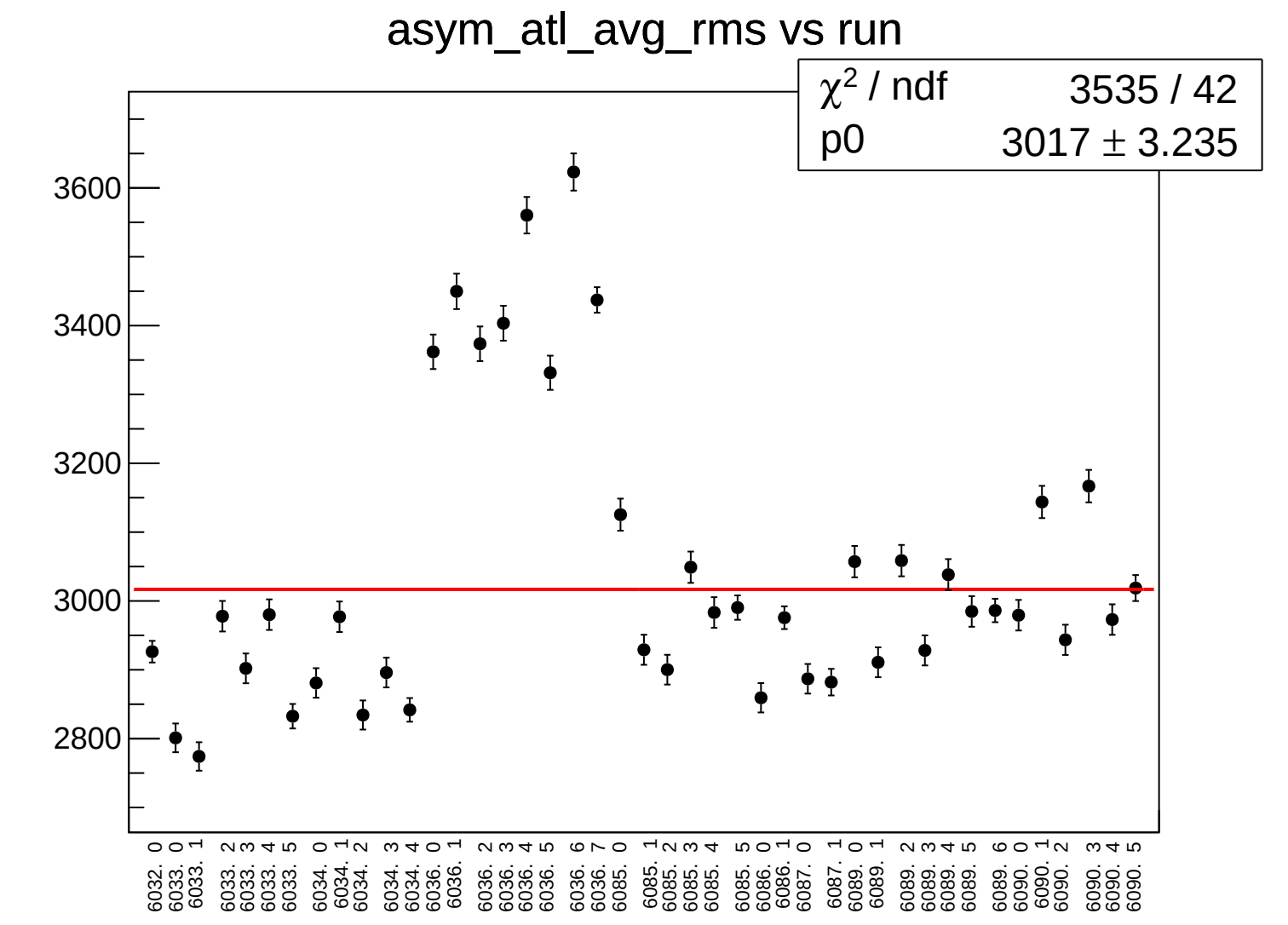

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42 / 42
p0 −481 ± 3995
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.47
Std Dev 0
2
1
0
−1
−2

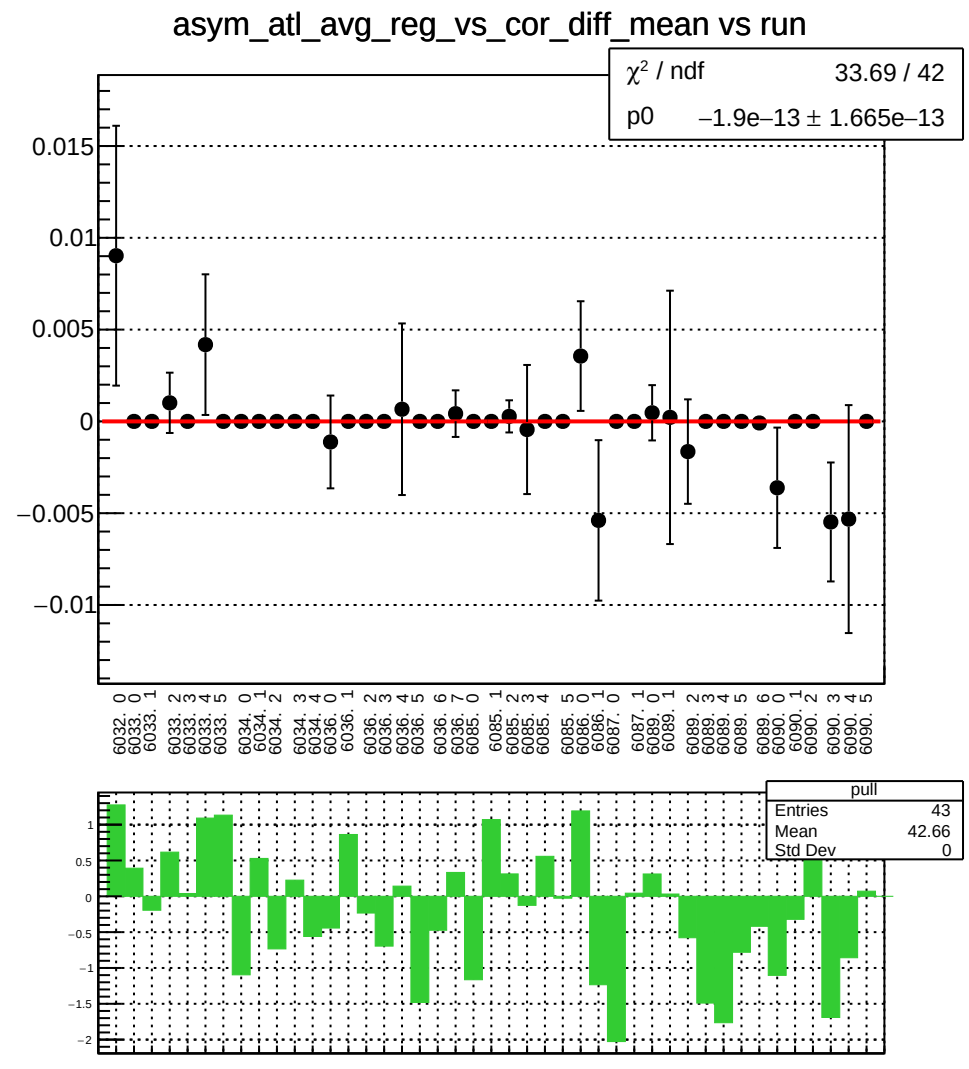

pull1D
Entries 43
Mean −0.02689
Std Dev 0.988
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

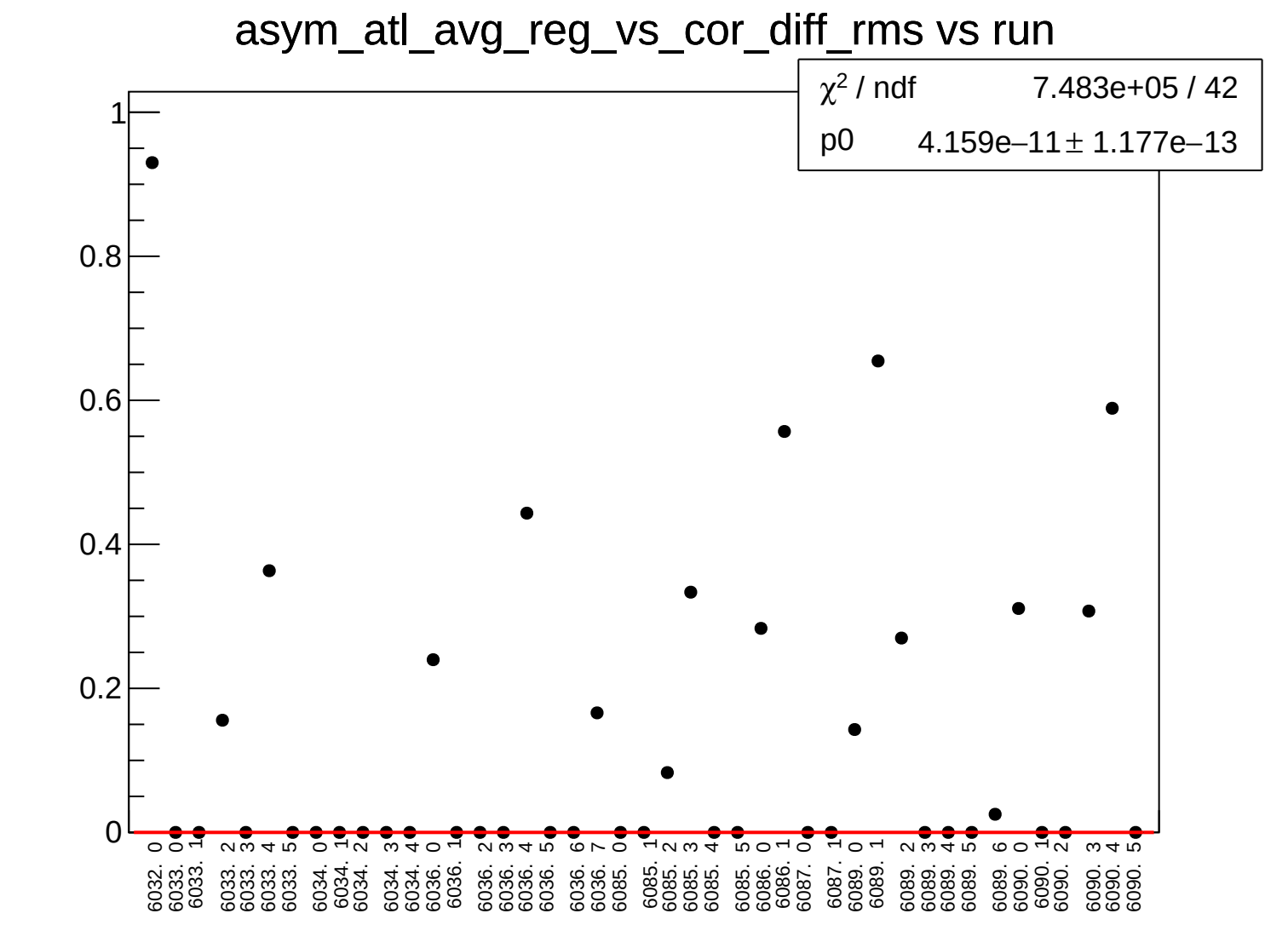

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5438 / 42
p0 2631 ± 2.825
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

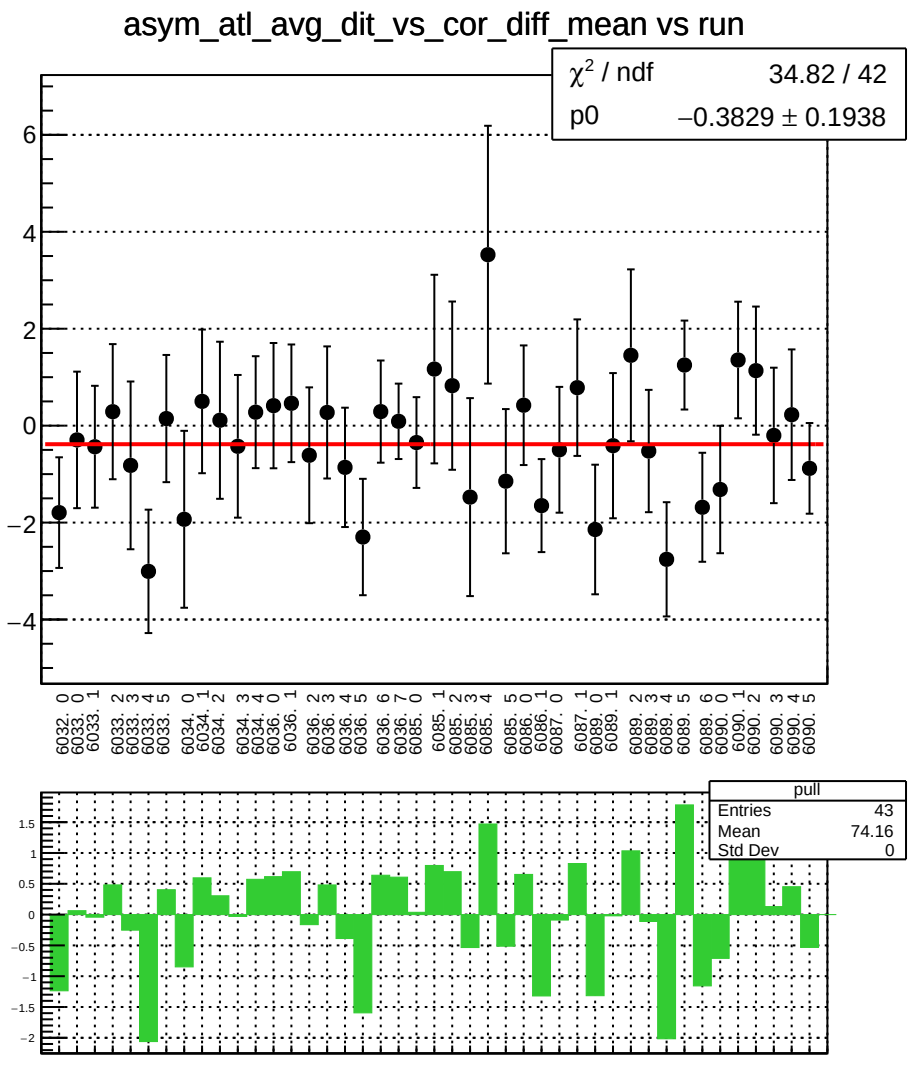

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 35.84 / 42
p0 −3031 ± 4575
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −12.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

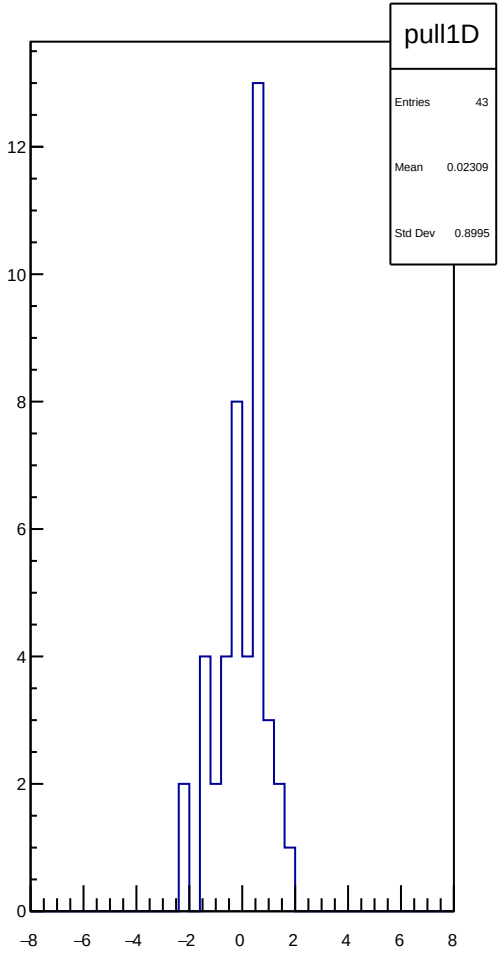

pull1D
Entries 43
Mean 0.026
Std Dev 0.9126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

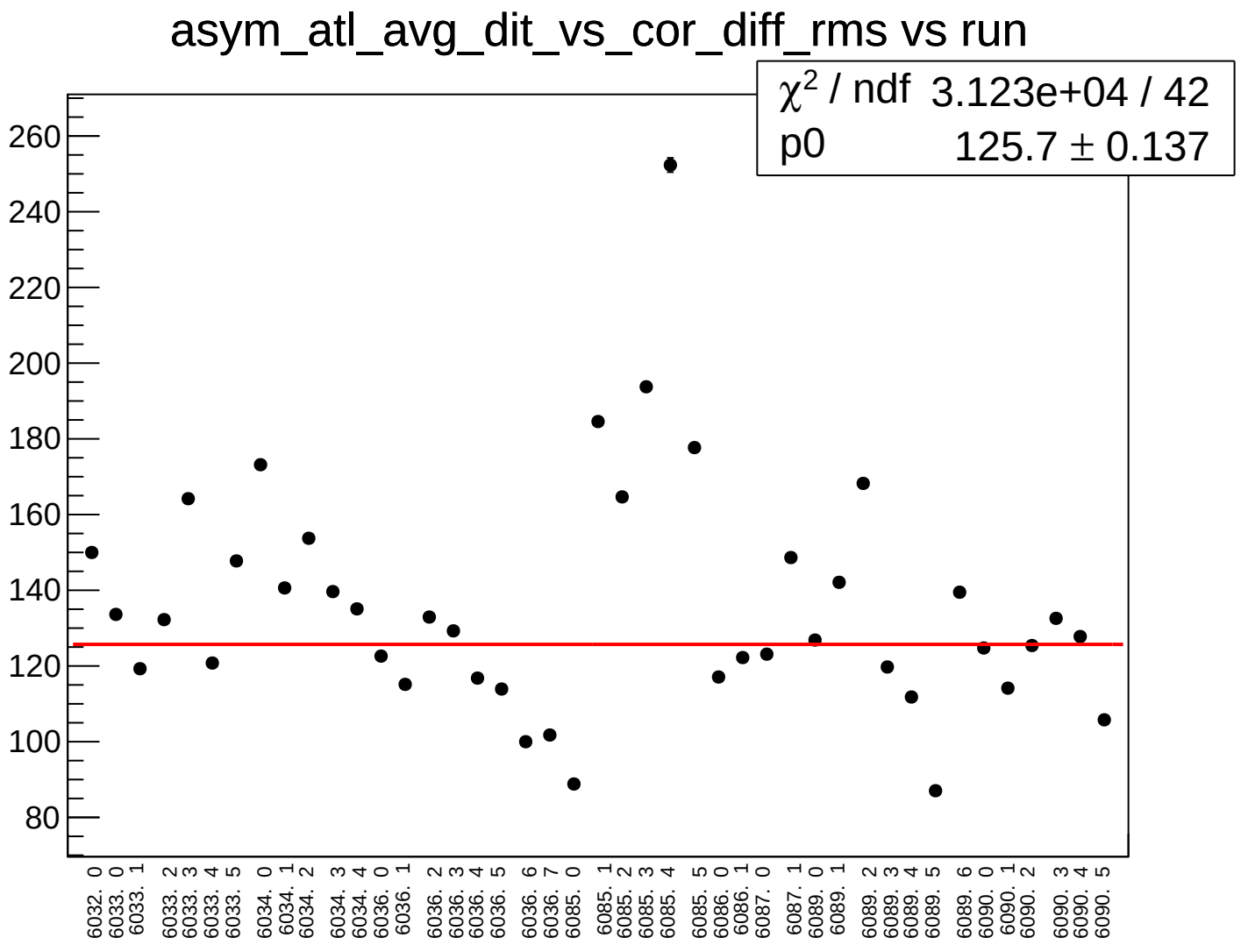

asym_atl_avg_rms vs run
χ² / ndf 3535 / 42
p0 3017 ± 3.235
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 33.69 / 42
p0 −1.9e−13 ± 1.665e−13
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 42.66
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1902
Std Dev 0.8645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

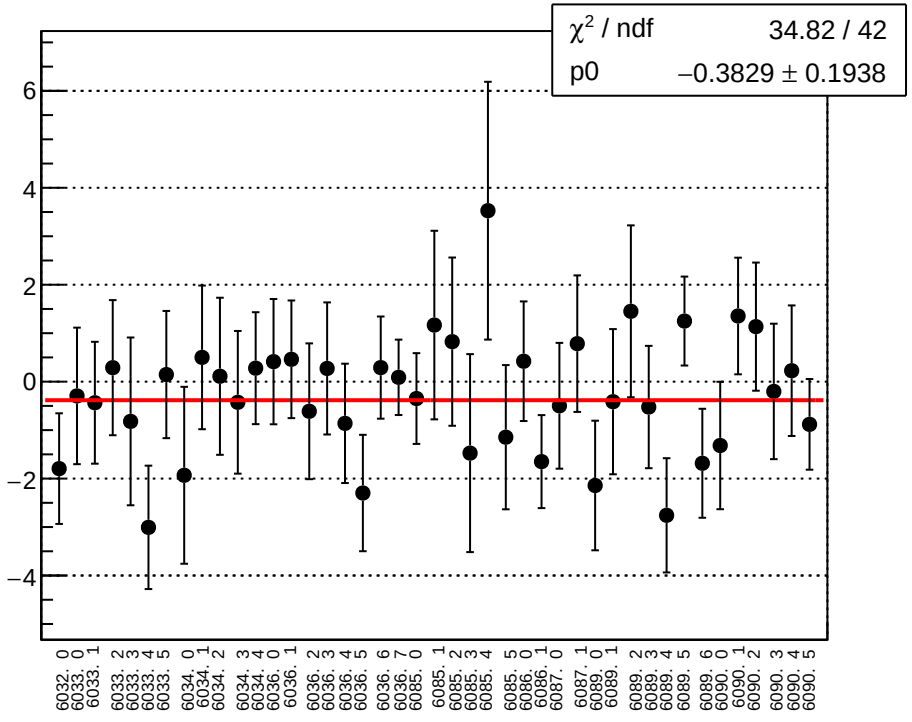

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.483e+05 / 42
p0 4.159e−11 ± 1.177e−13
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

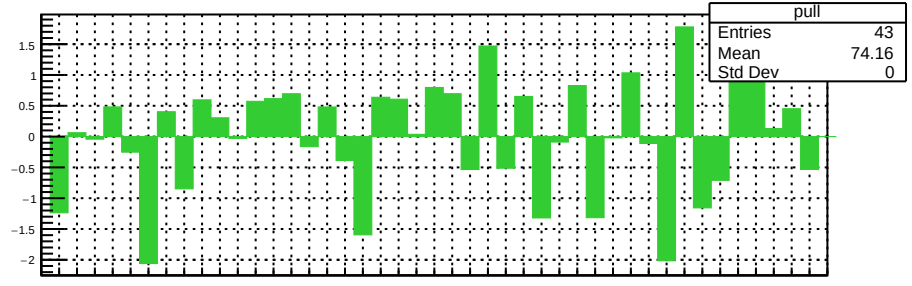

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.82 / 42
p0 −0.3829 ± 0.1938
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 74.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

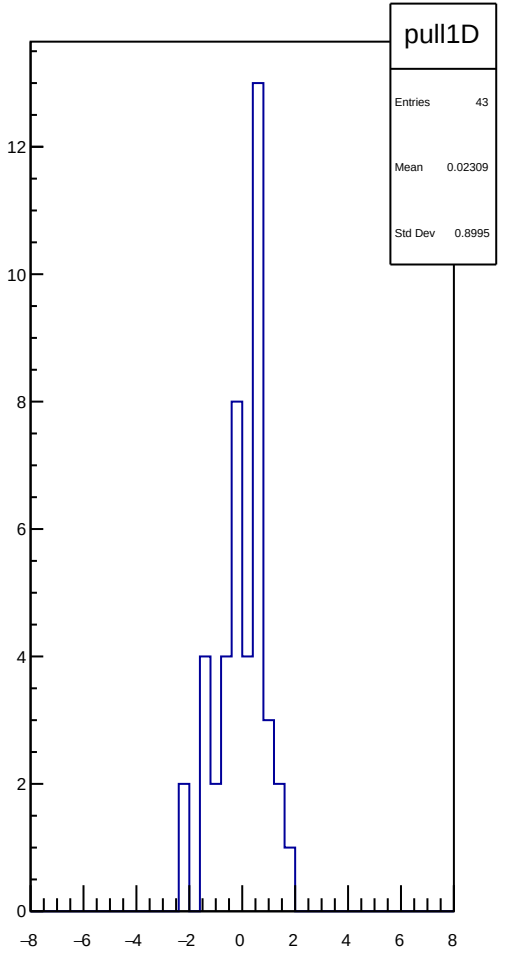

pull1D
Entries 43
Mean 0.02309
Std Dev 0.8995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

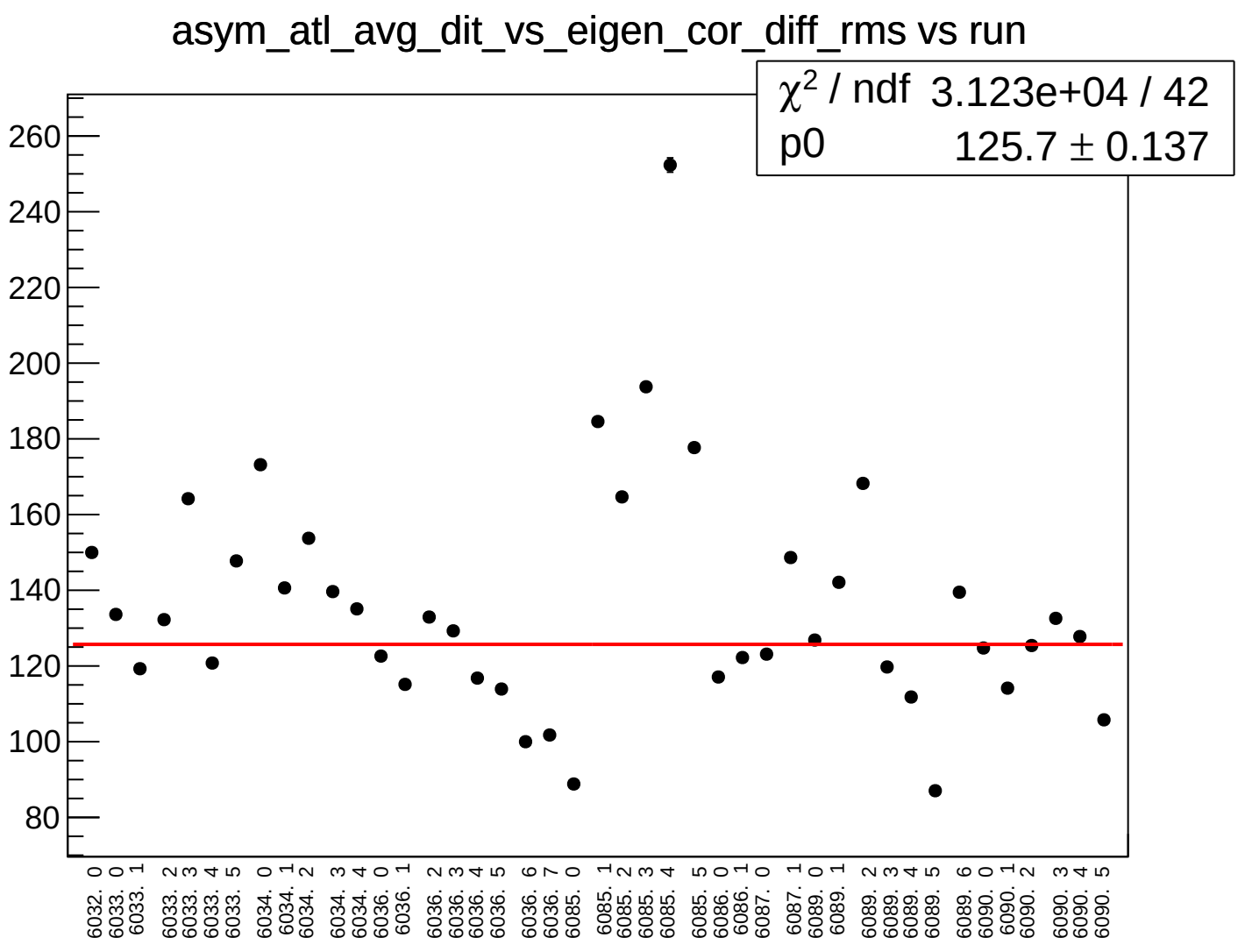

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.123e+04 / 42
p0 125.7 ± 0.137
260
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

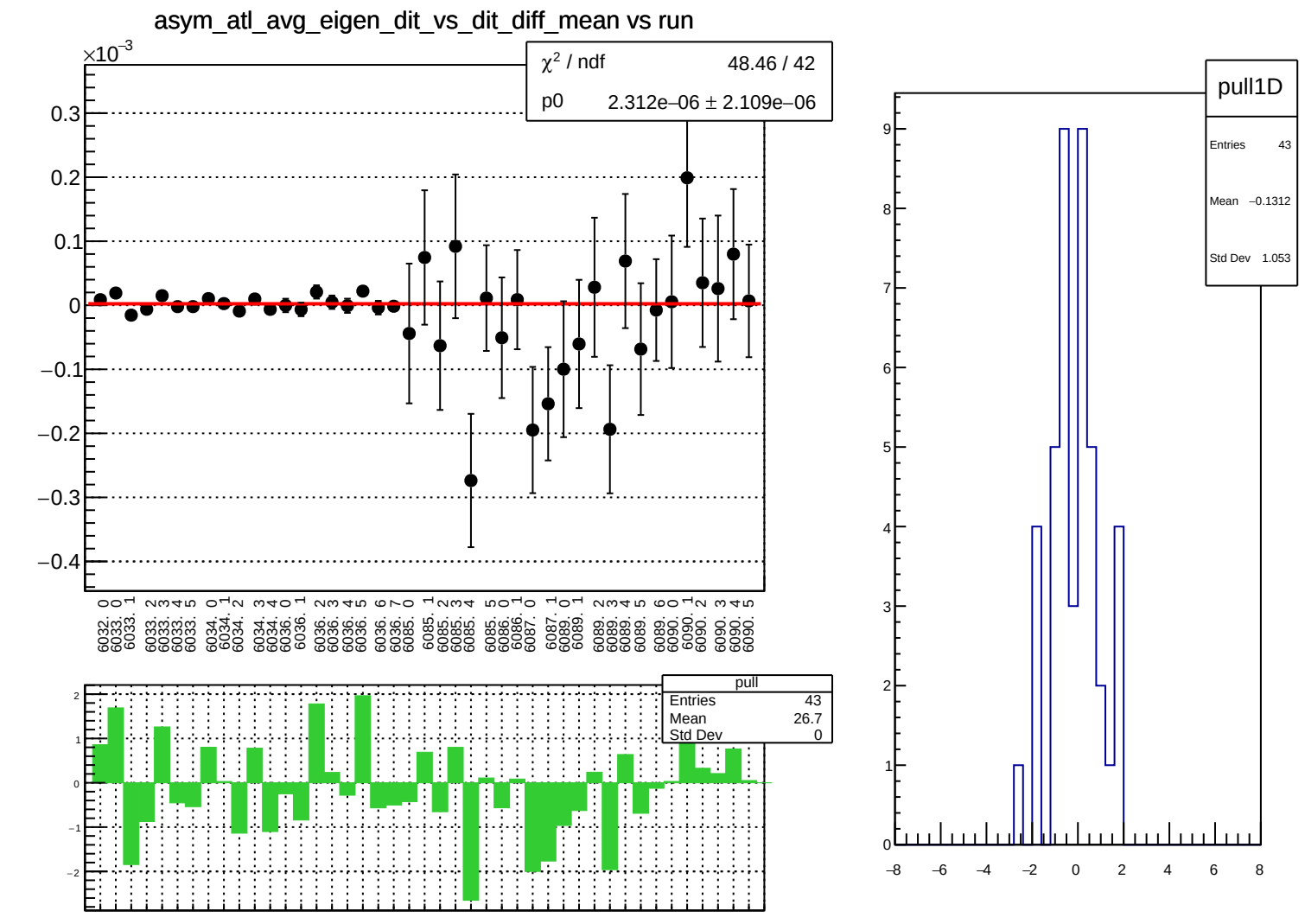
asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run

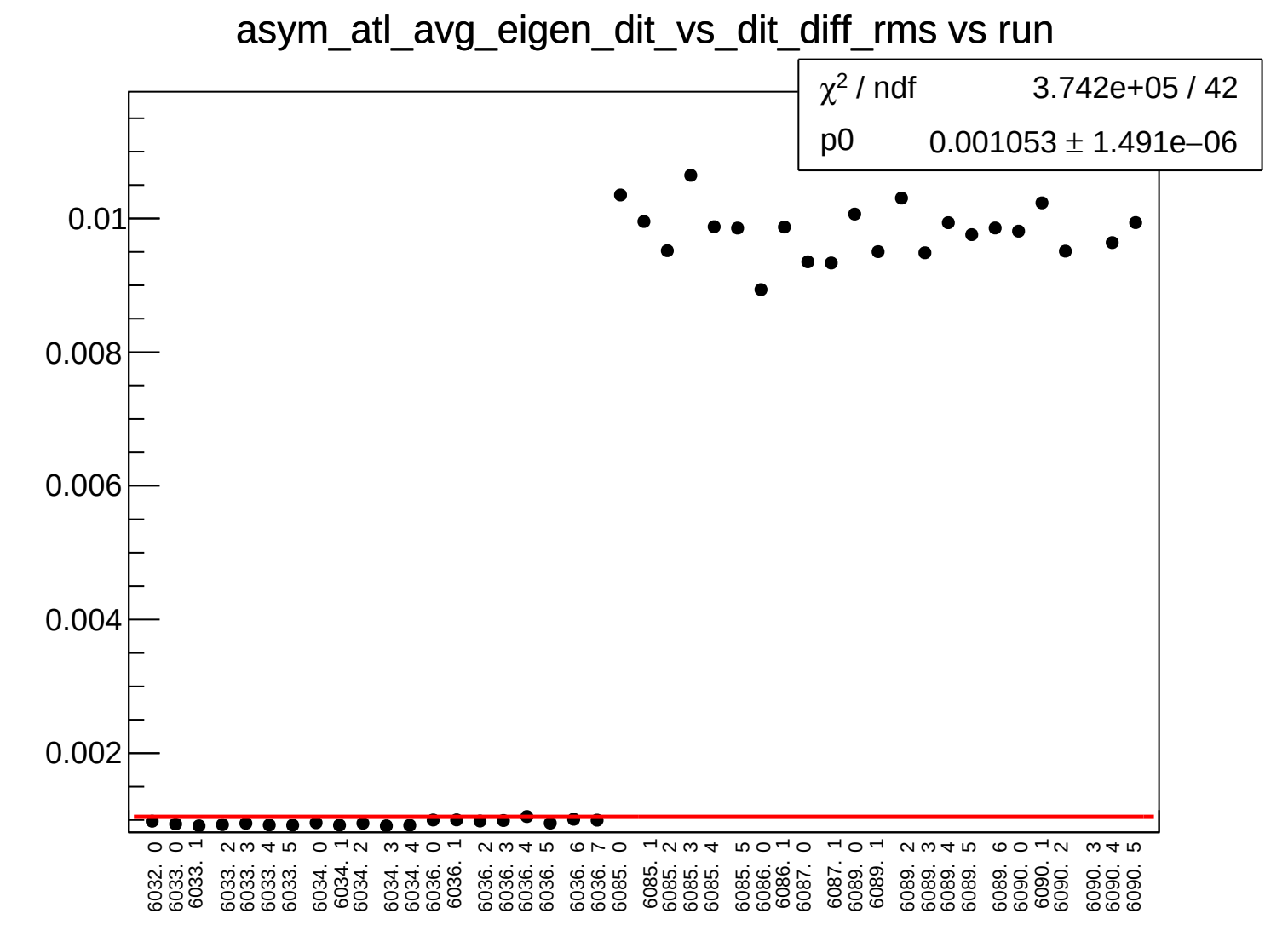


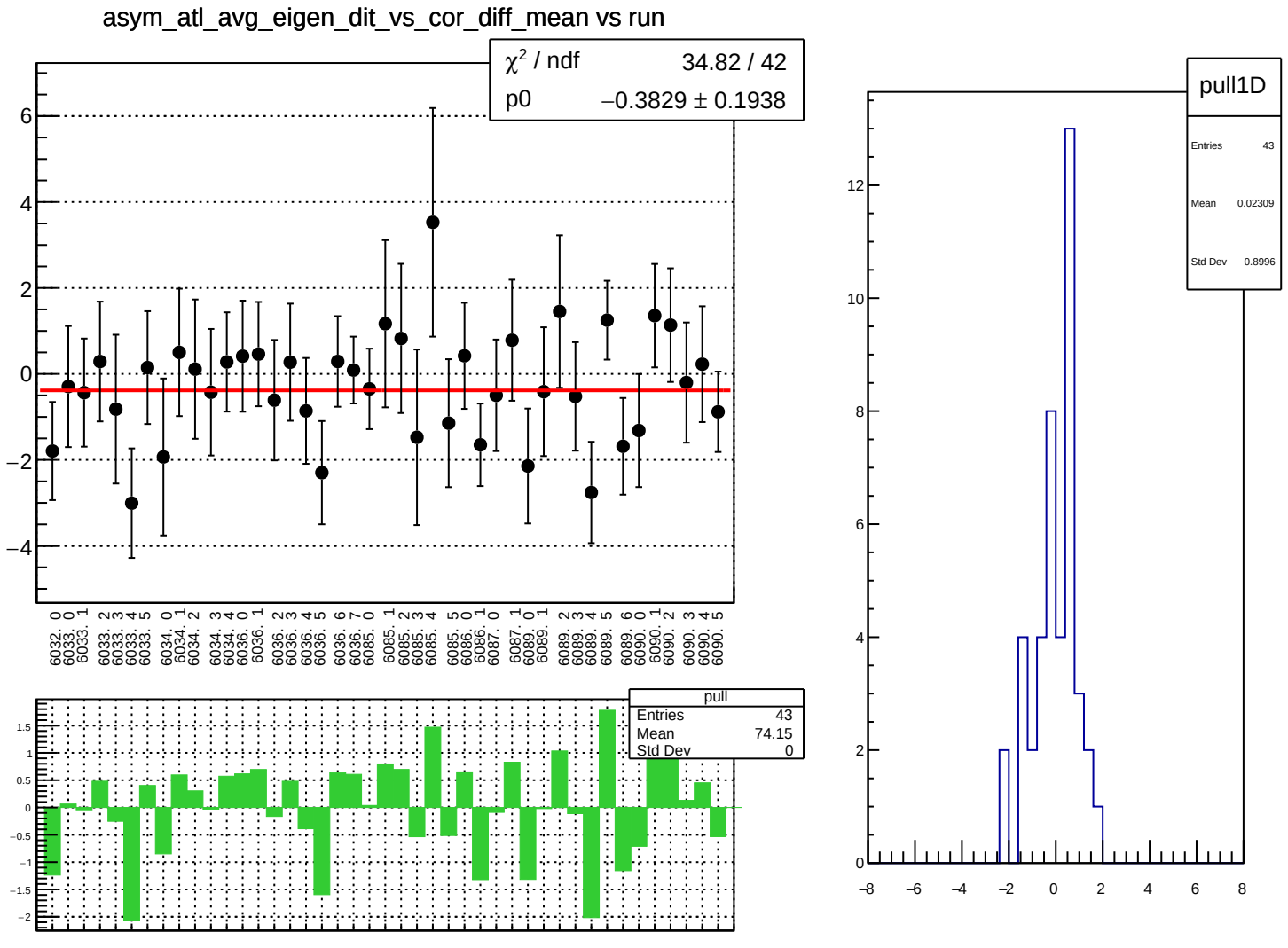


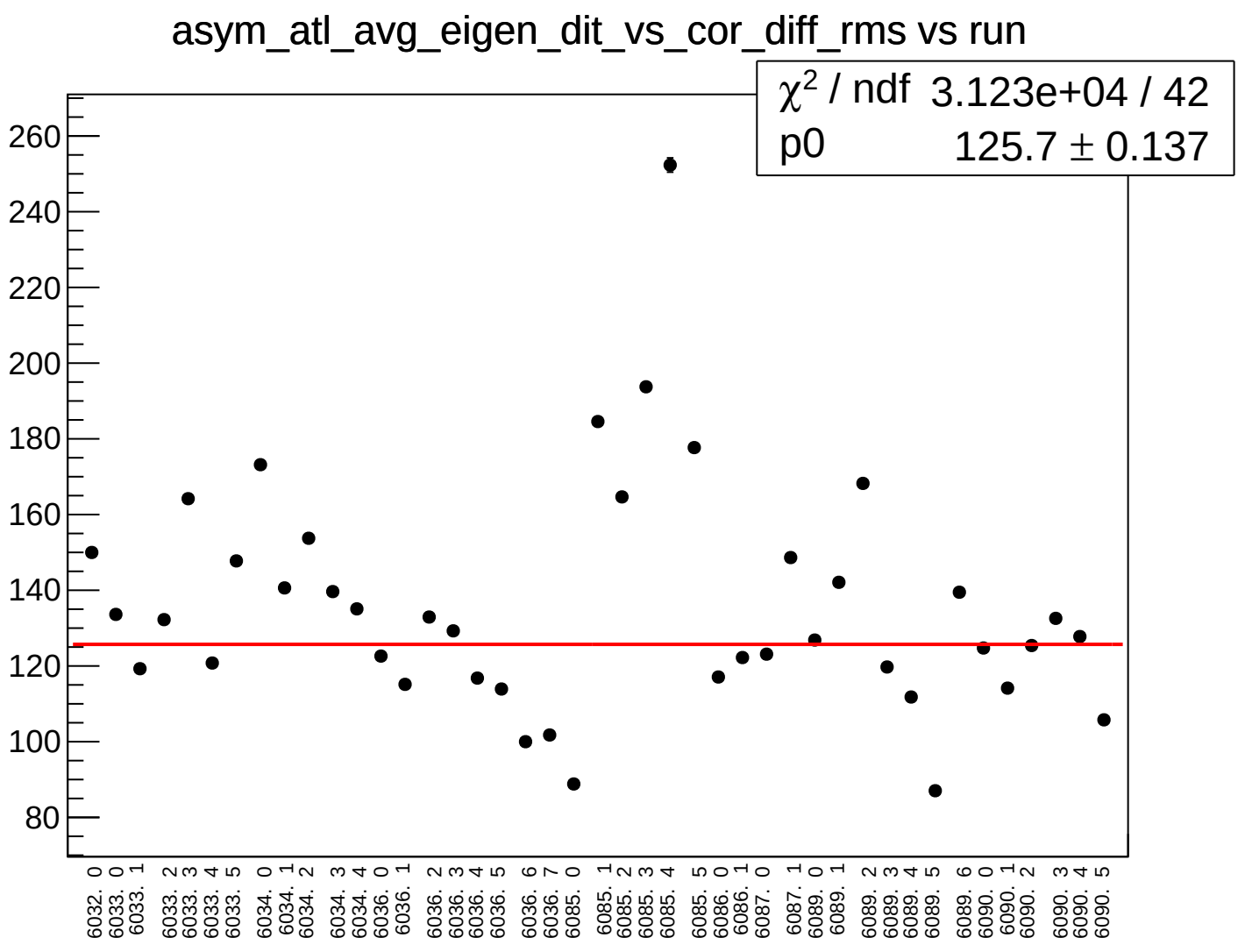


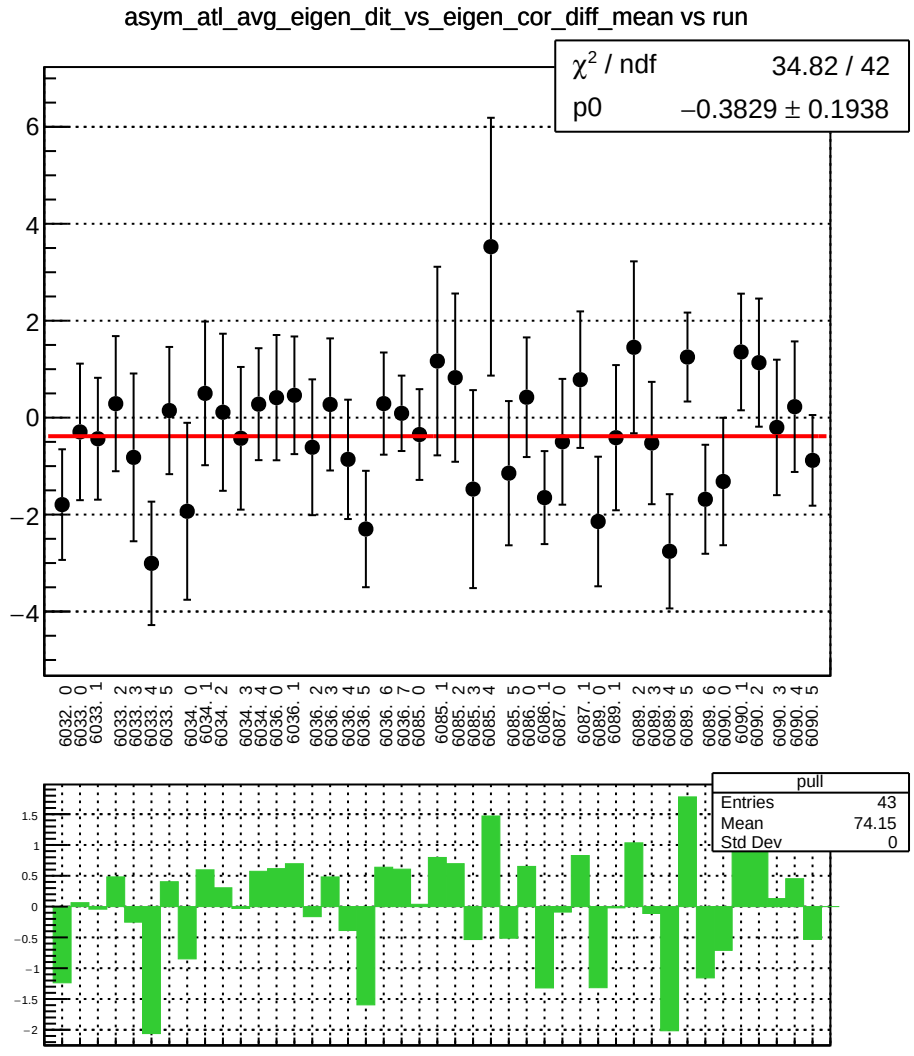

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.123e+04 / 42
p0 125.7 ± 0.137
260
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

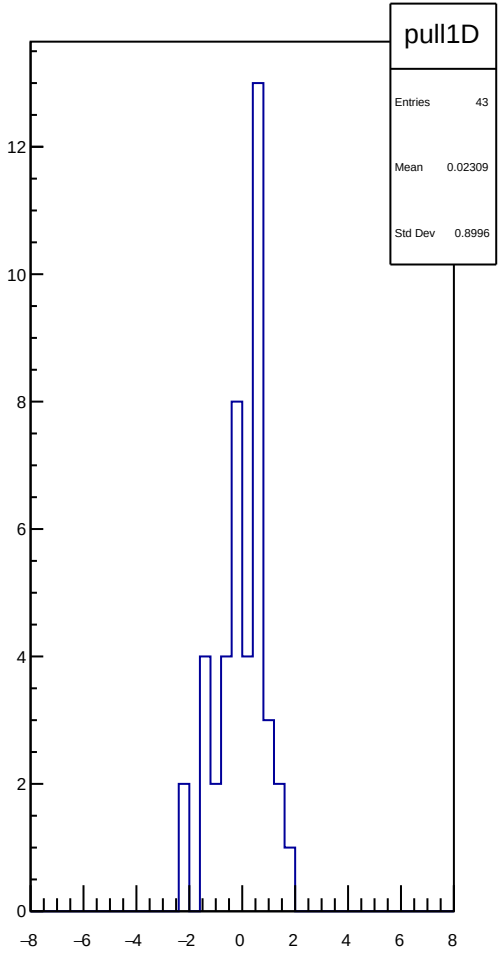

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.46 / 42
p0 2.312e−06 ± 2.109e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1312
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

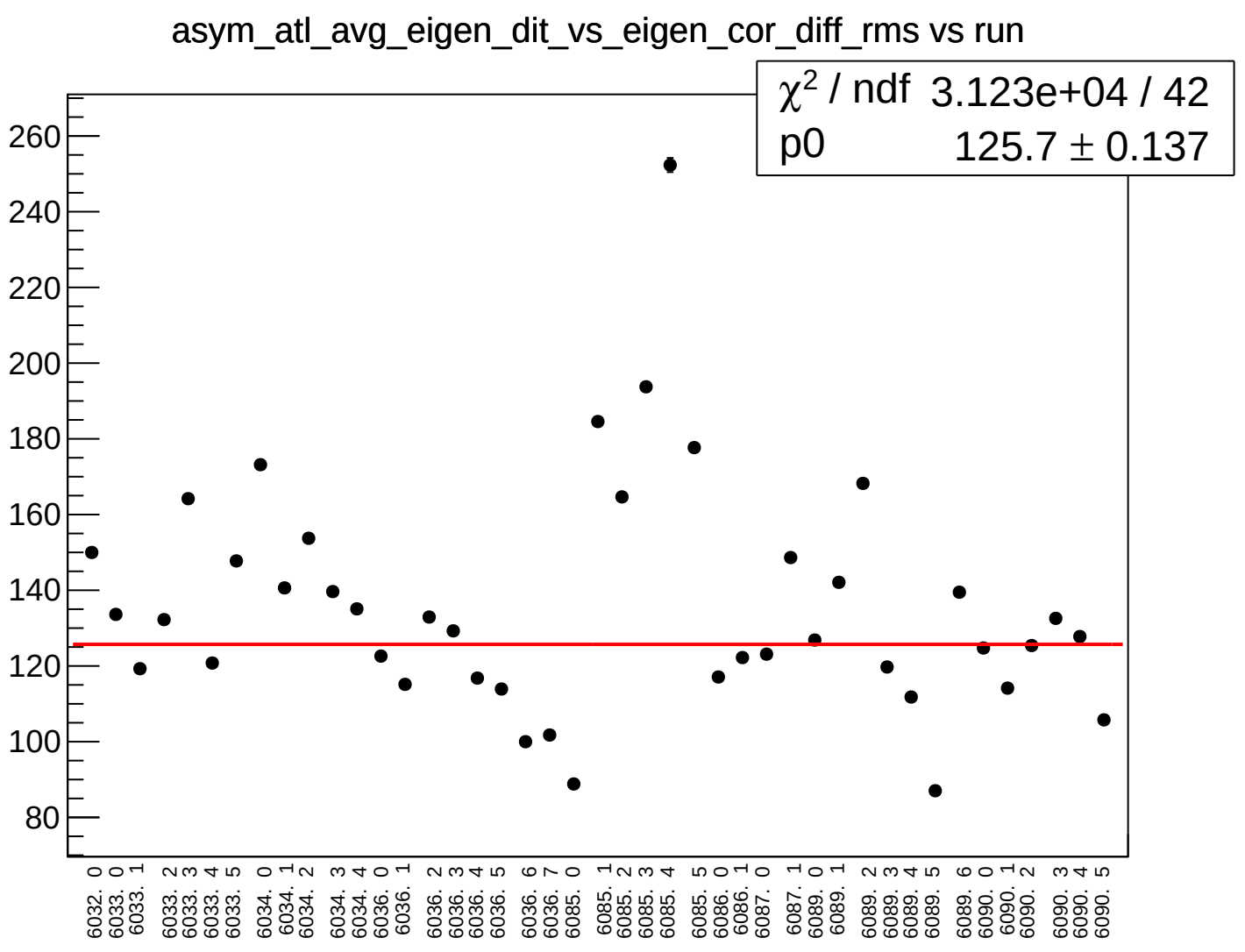

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.742e+05 / 42
p0 0.001053 ± 1.491e−06
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

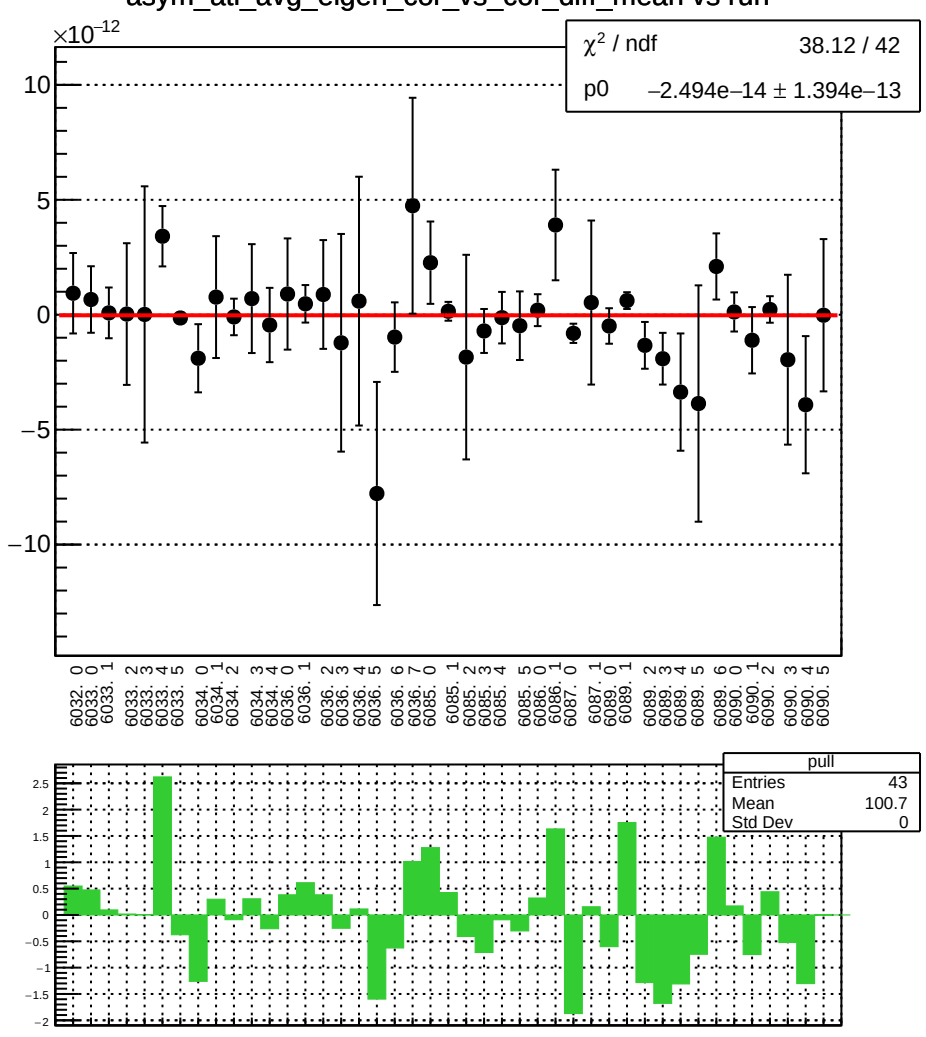

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.82 / 42
p0 −0.3829 ± 0.1938
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 74.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02309
Std Dev 0.8996
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

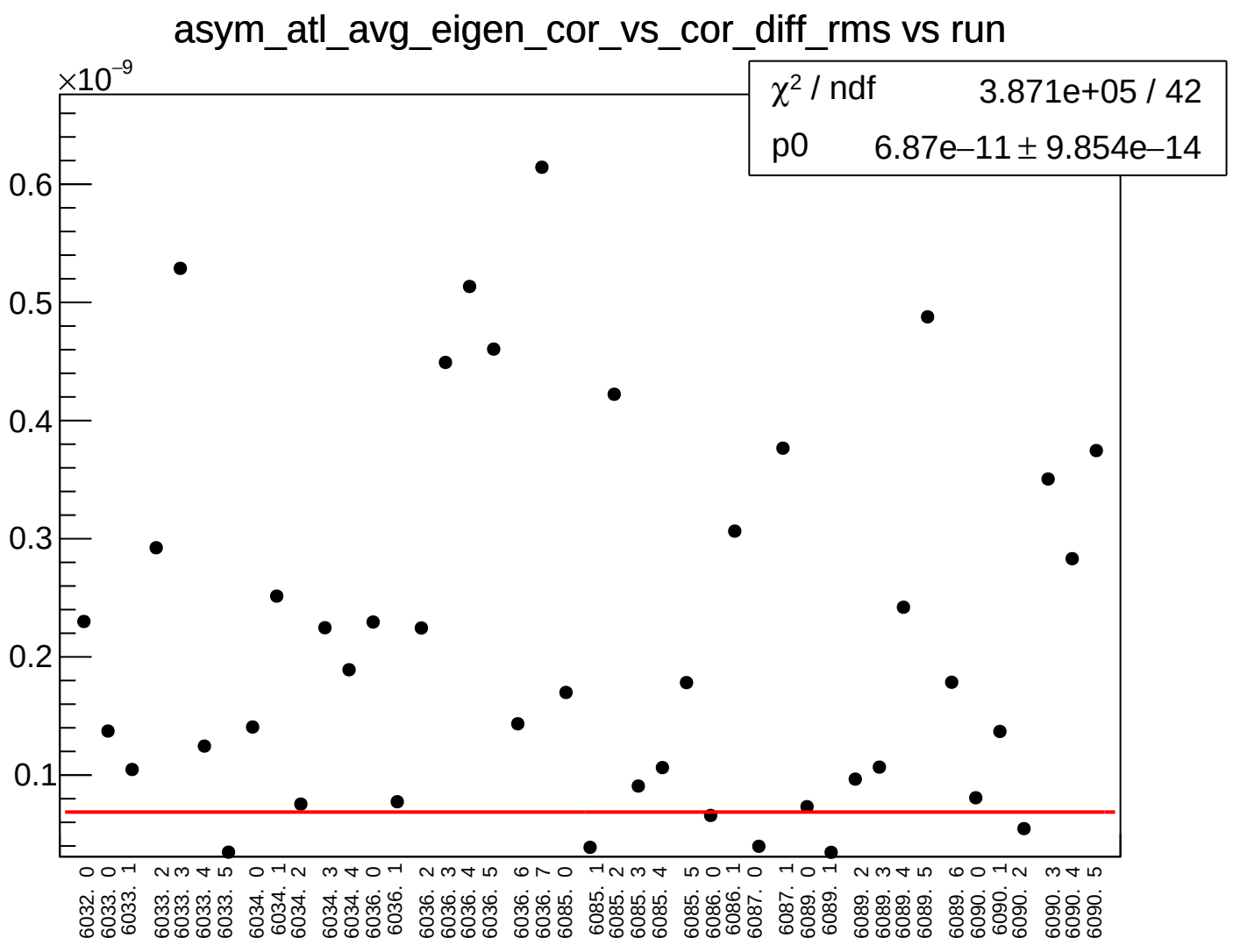

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.123e+04 / 42
p0 125.7 ± 0.137
260
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

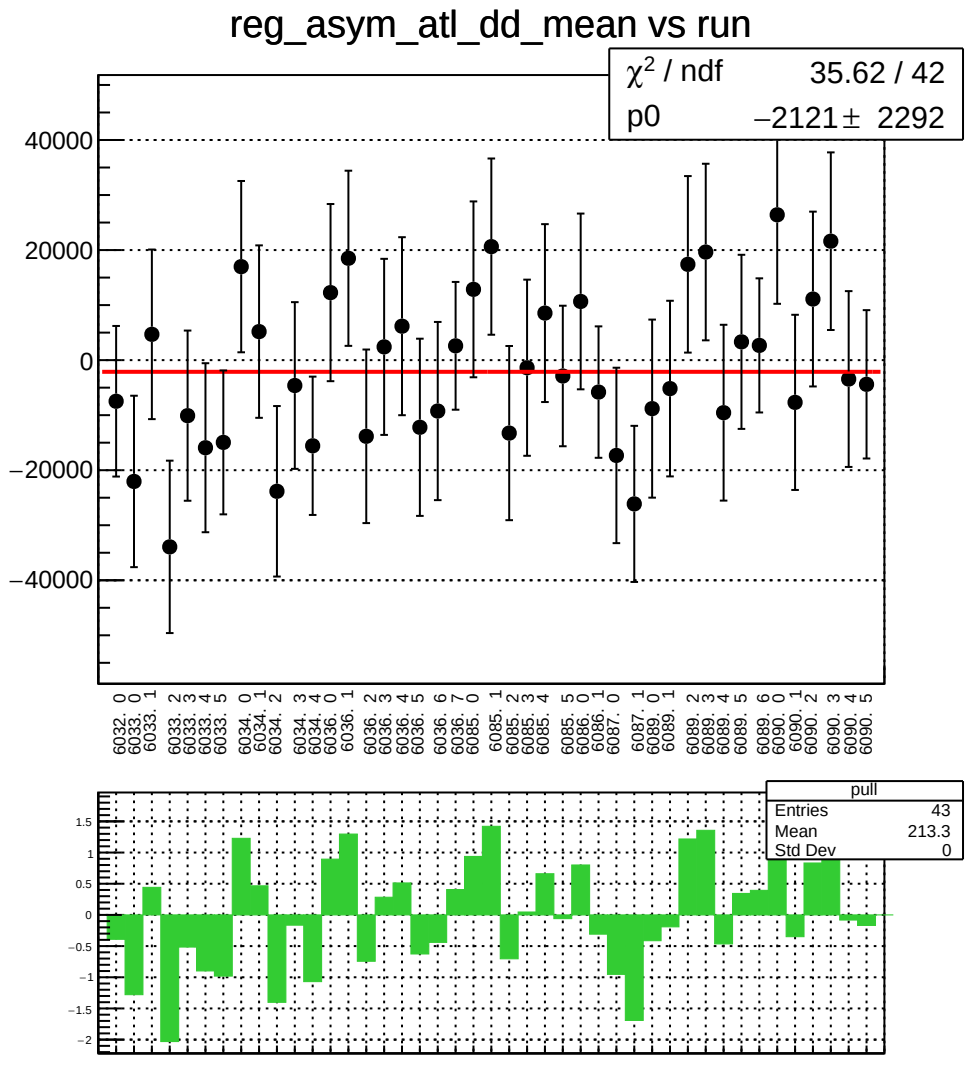

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.82 / 42
p0 −0.3829 ± 0.1938
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 74.15
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

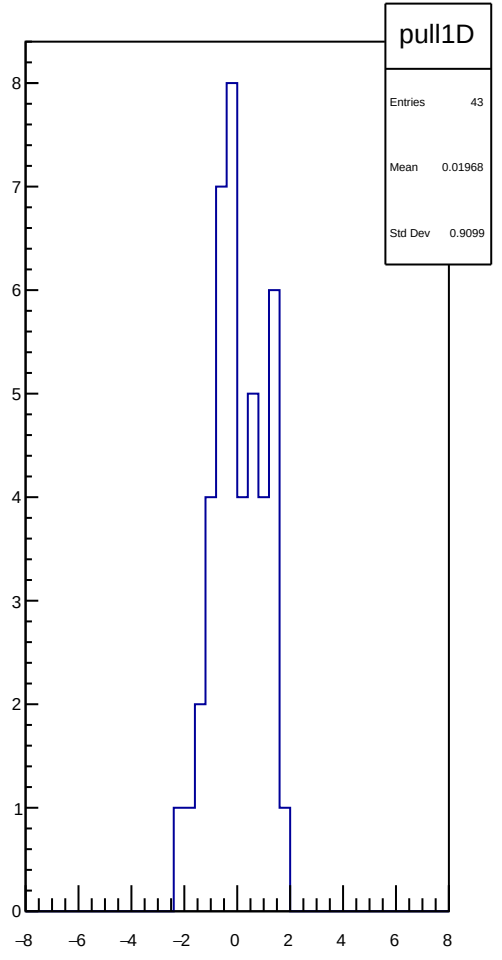

pull1D
Entries 43
Mean 0.02309
Std Dev 0.8996
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

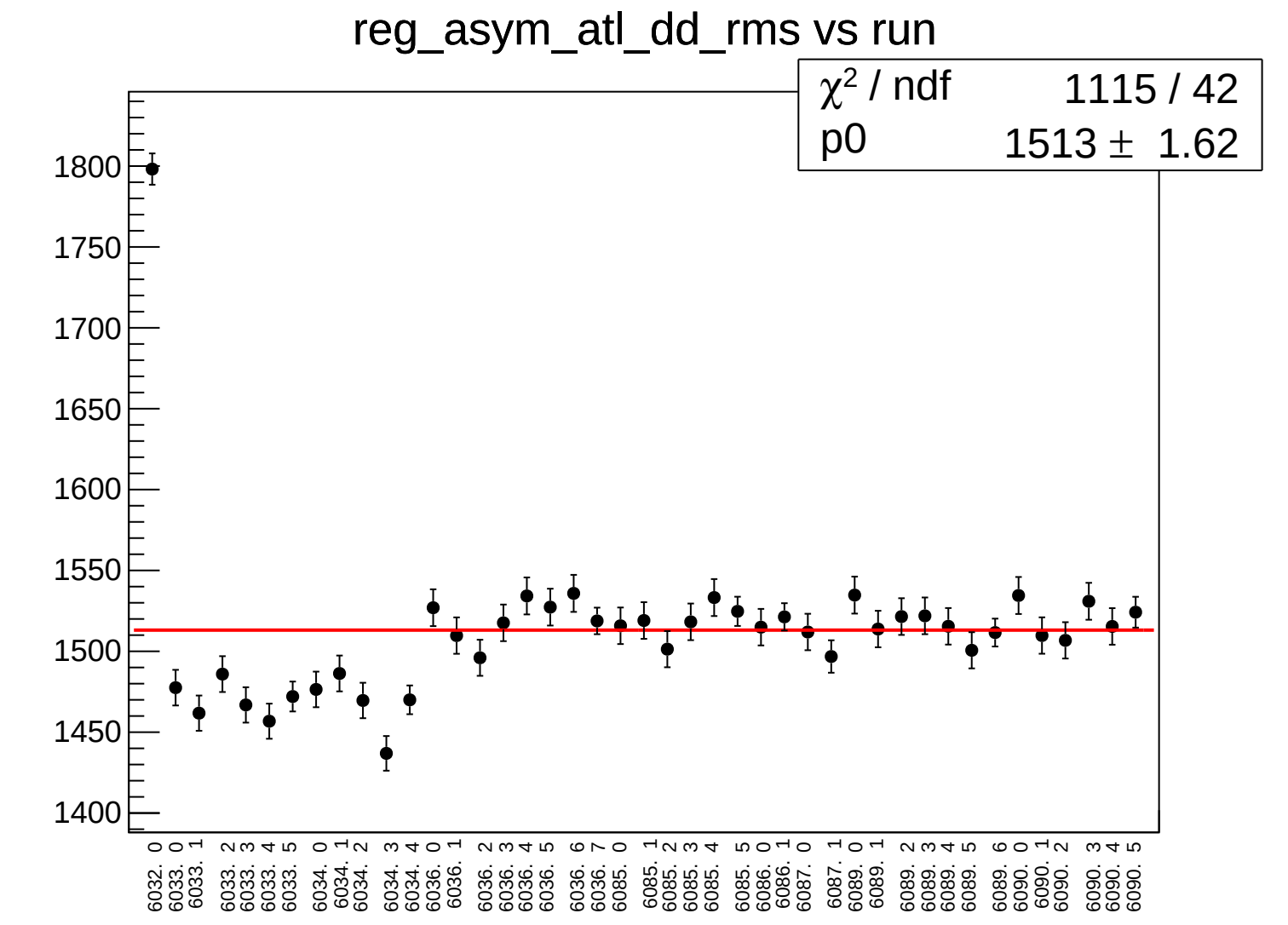

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.123e+04 / 42
p0 125.7 ± 0.137
260
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

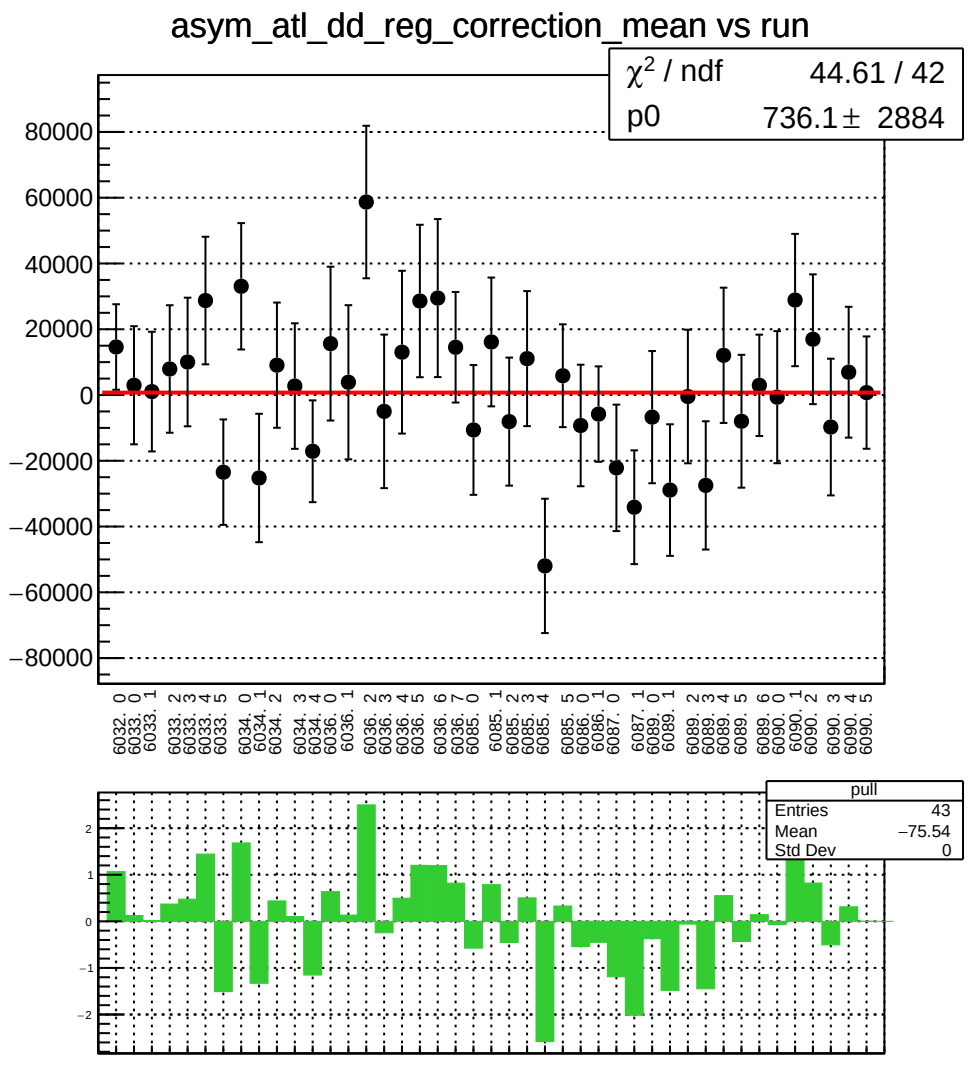

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.12 / 42
p0 −2.494e−14 ± 1.394e−13
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 100.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0352
Std Dev 0.9409
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

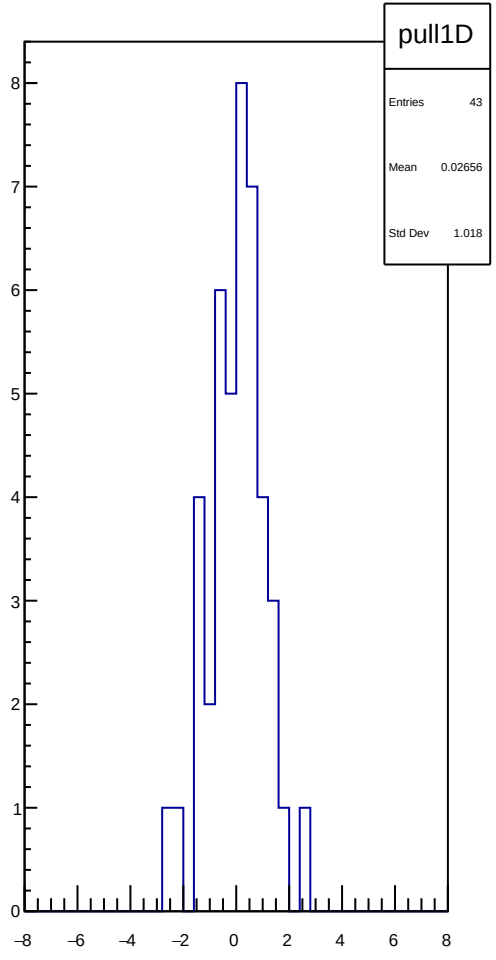

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.871e+05 / 42
p0 6.87e−11 ± 9.854e−14
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

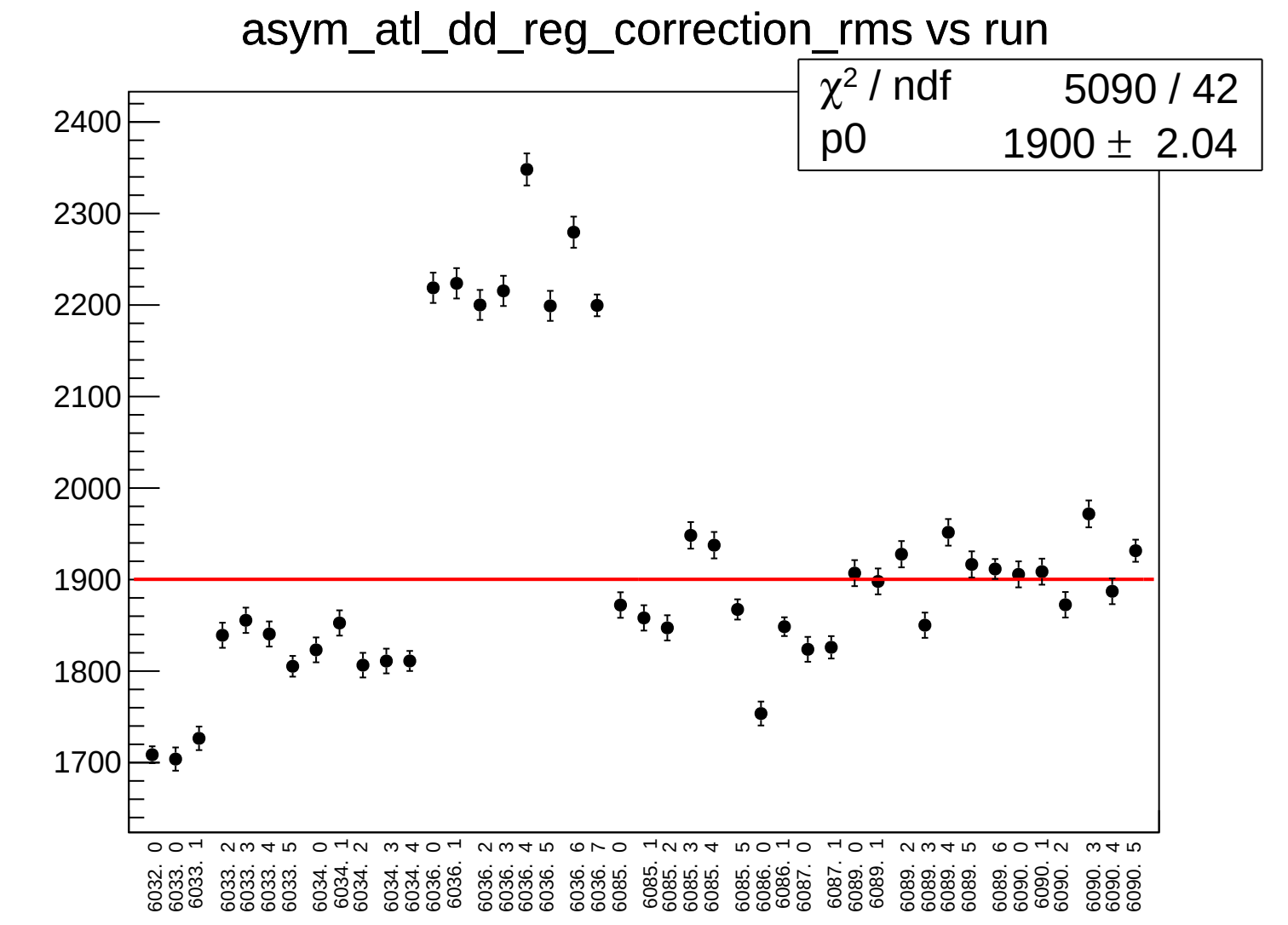

reg_asym_atl_dd_mean vs run
χ² / ndf 35.62 / 42
p0 −2121 ± 2292
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 213.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

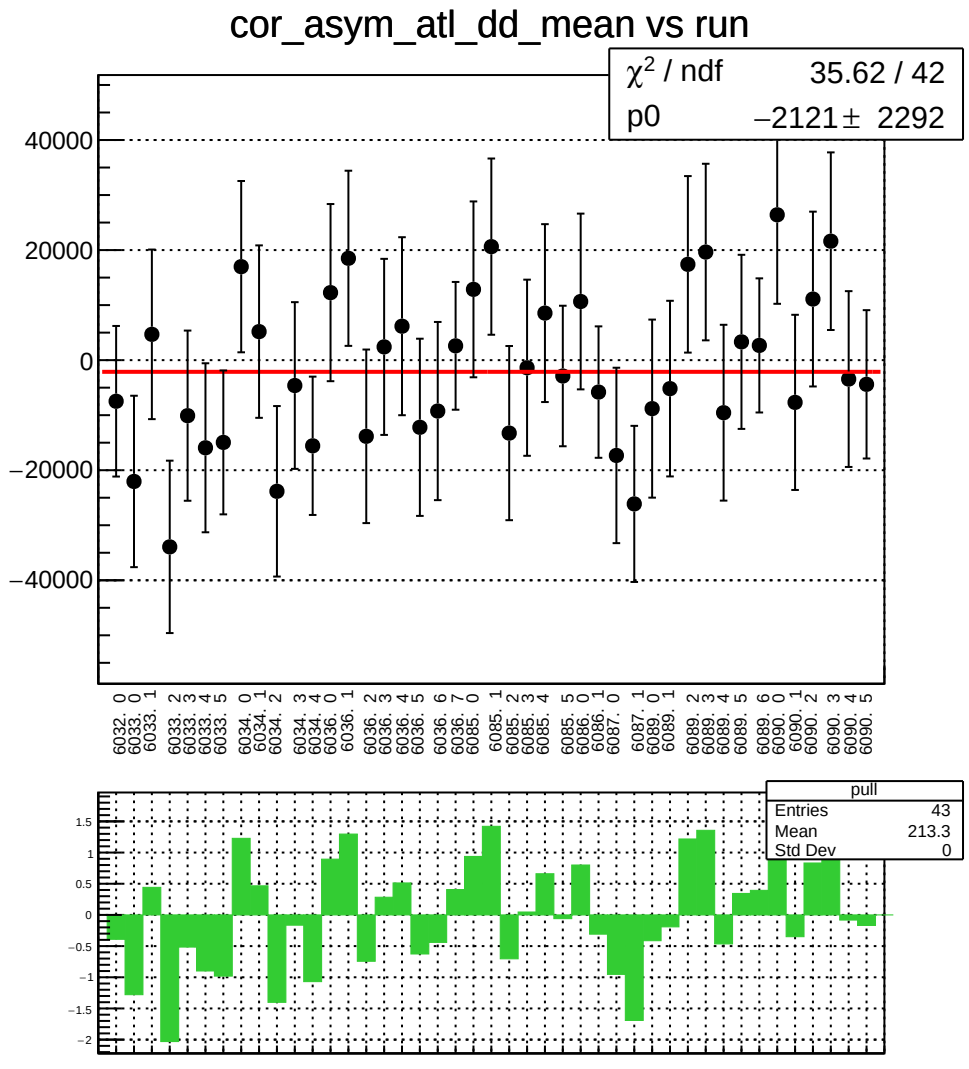

pull1D
Entries 43
Mean 0.01968
Std Dev 0.9099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

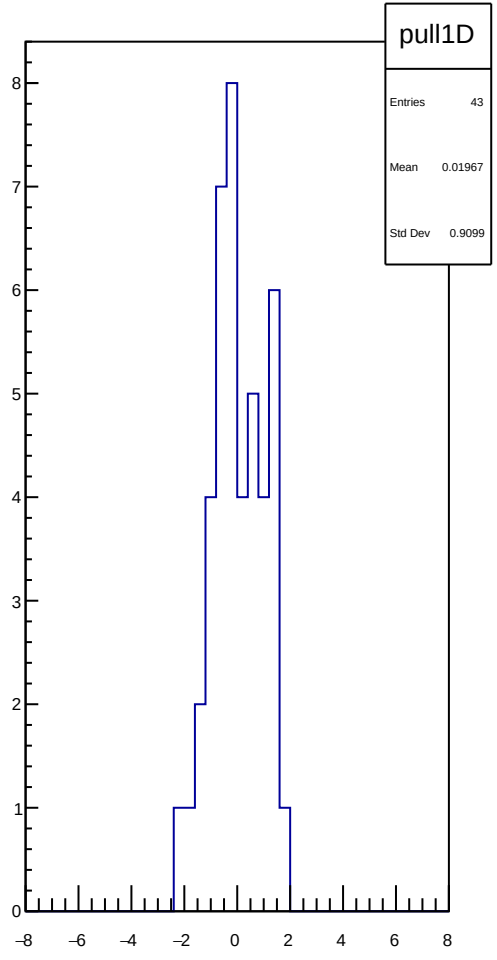

reg_asym_atl_dd_rms vs run
χ² / ndf 1115 / 42
p0 1513 ± 1.62
1800
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

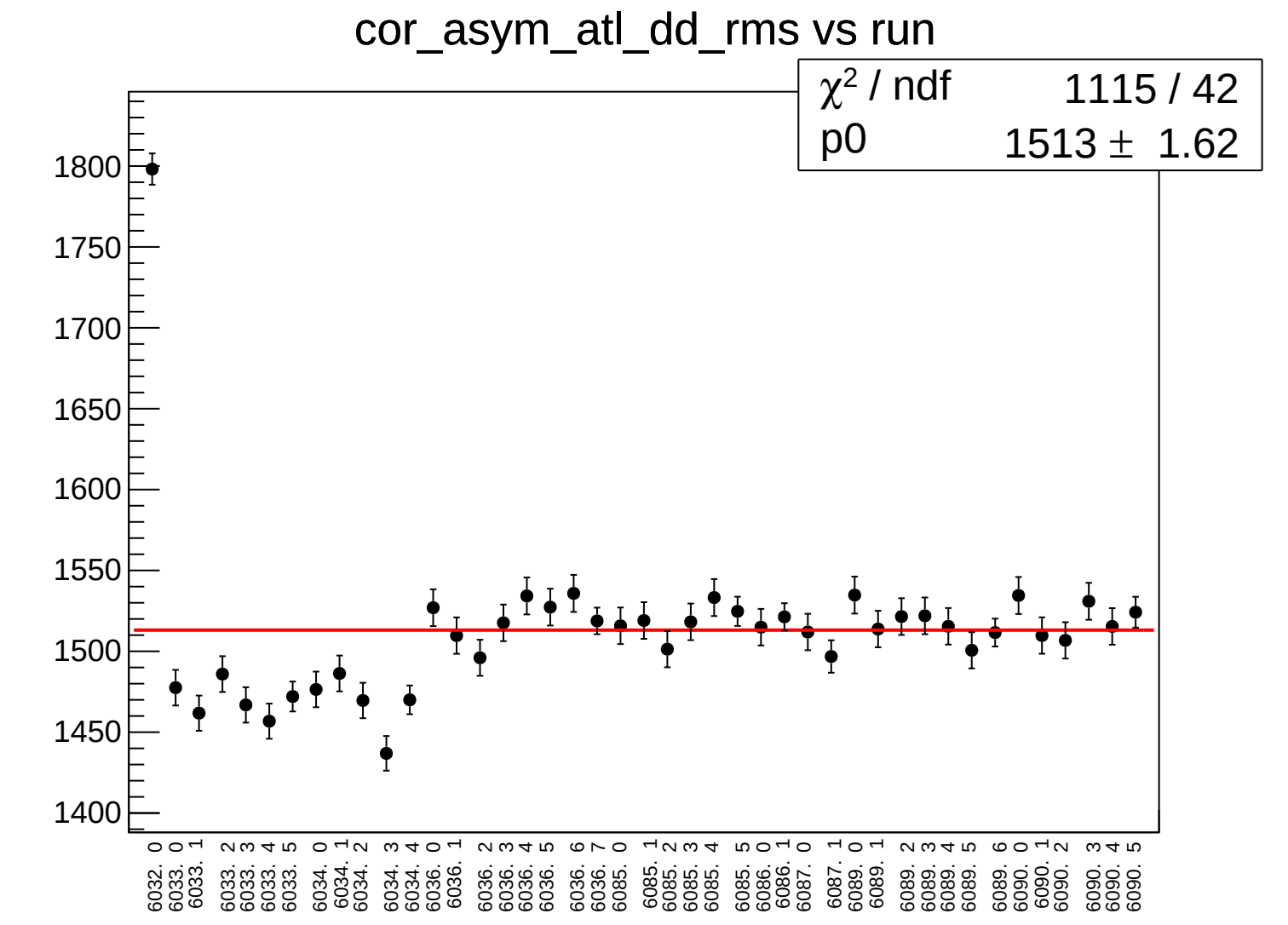

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 44.61 / 42
p0 736.1 ± 2884
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −75.54
Std Dev 0
2
1
0
−1
−2

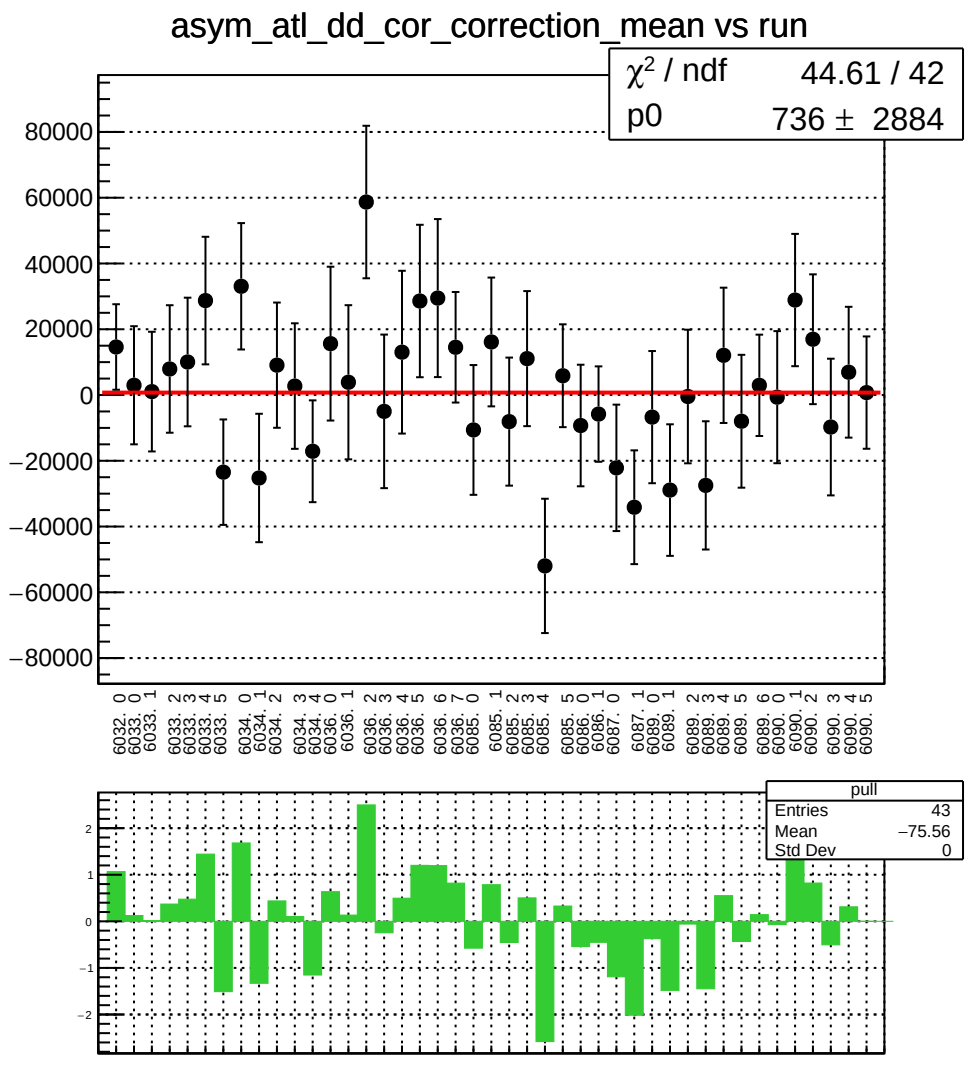

pull1D
Entries 43
Mean 0.02656
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

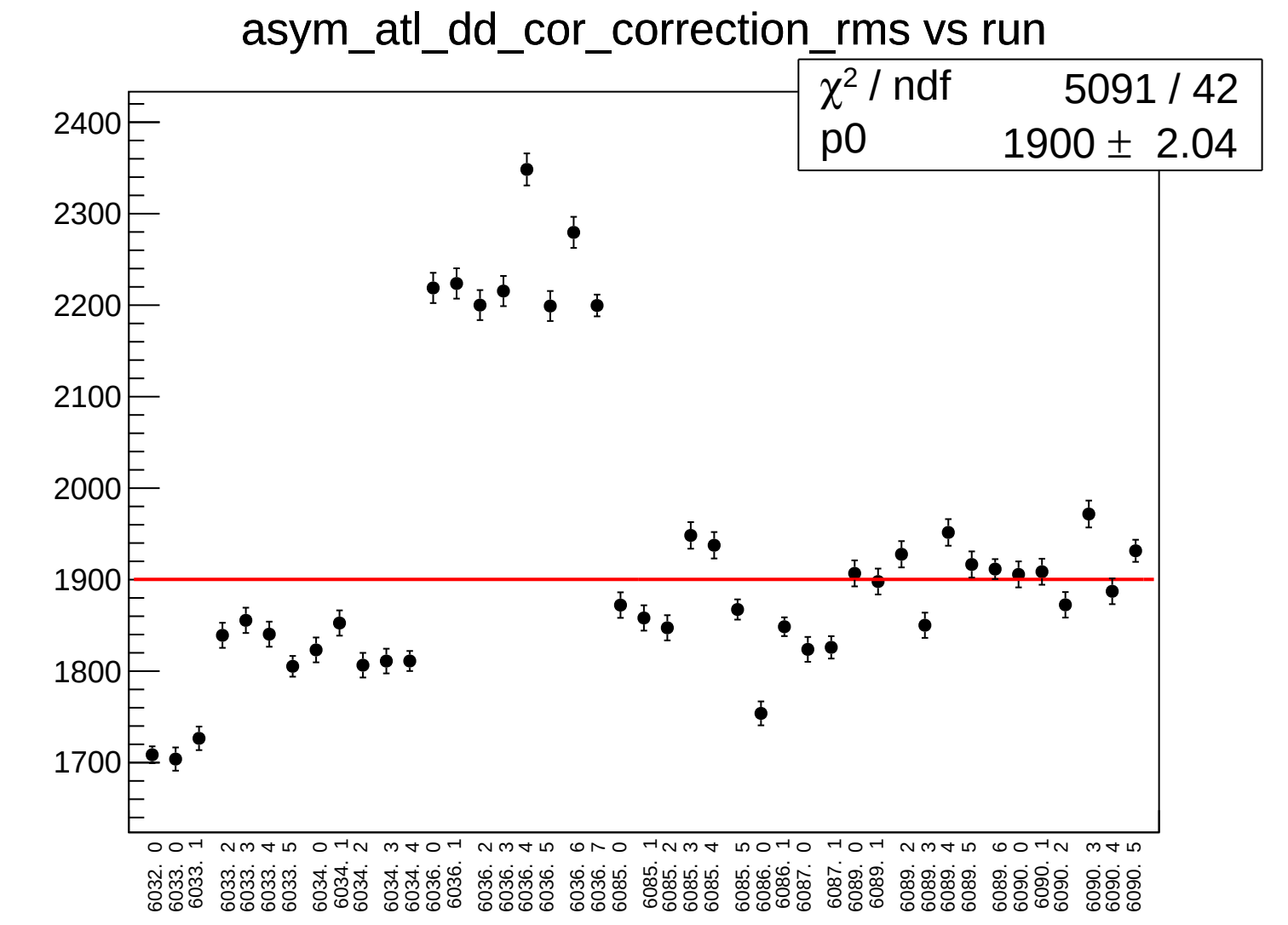

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5090 / 42
p0 1900 ± 2.04
2400
2300
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

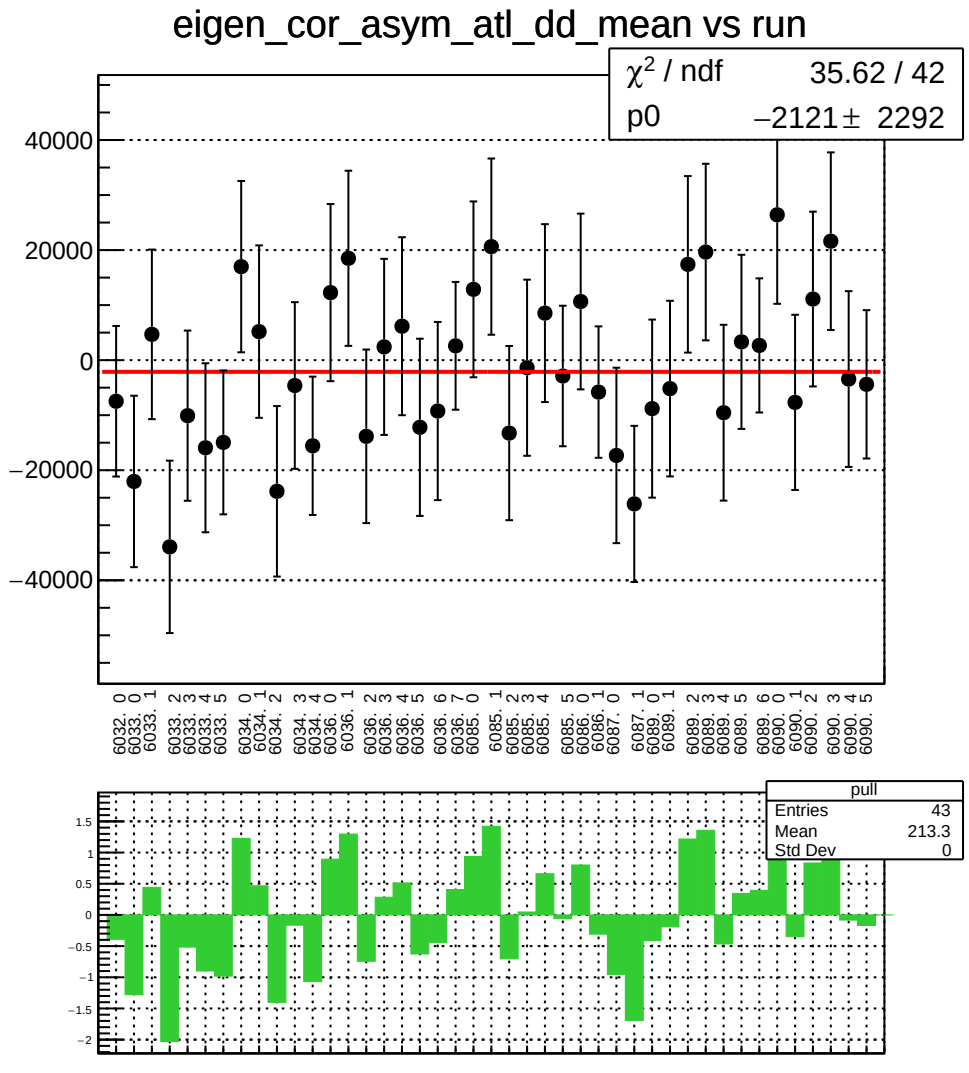

cor_asym_atl_dd_mean vs run
χ² / ndf 35.62 / 42
p0 −2121 ± 2292
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 213.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

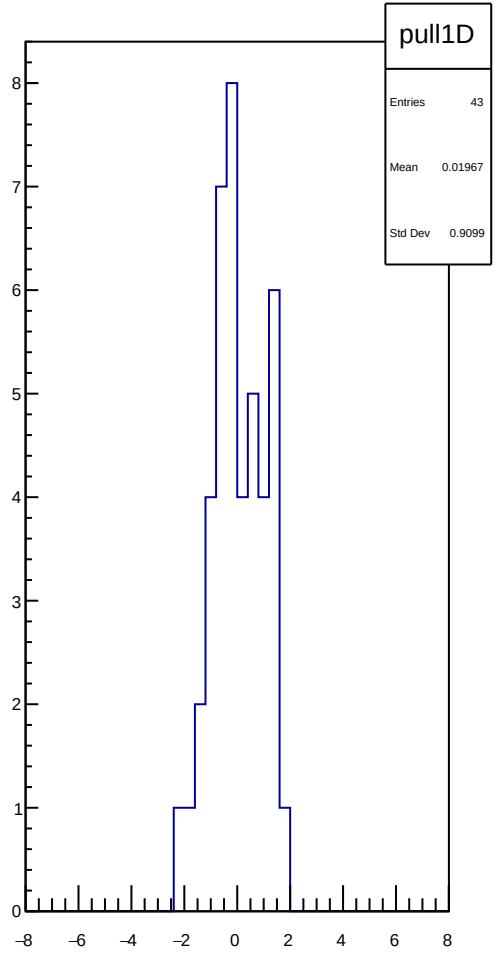

pull1D
Entries 43
Mean 0.01967
Std Dev 0.9099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

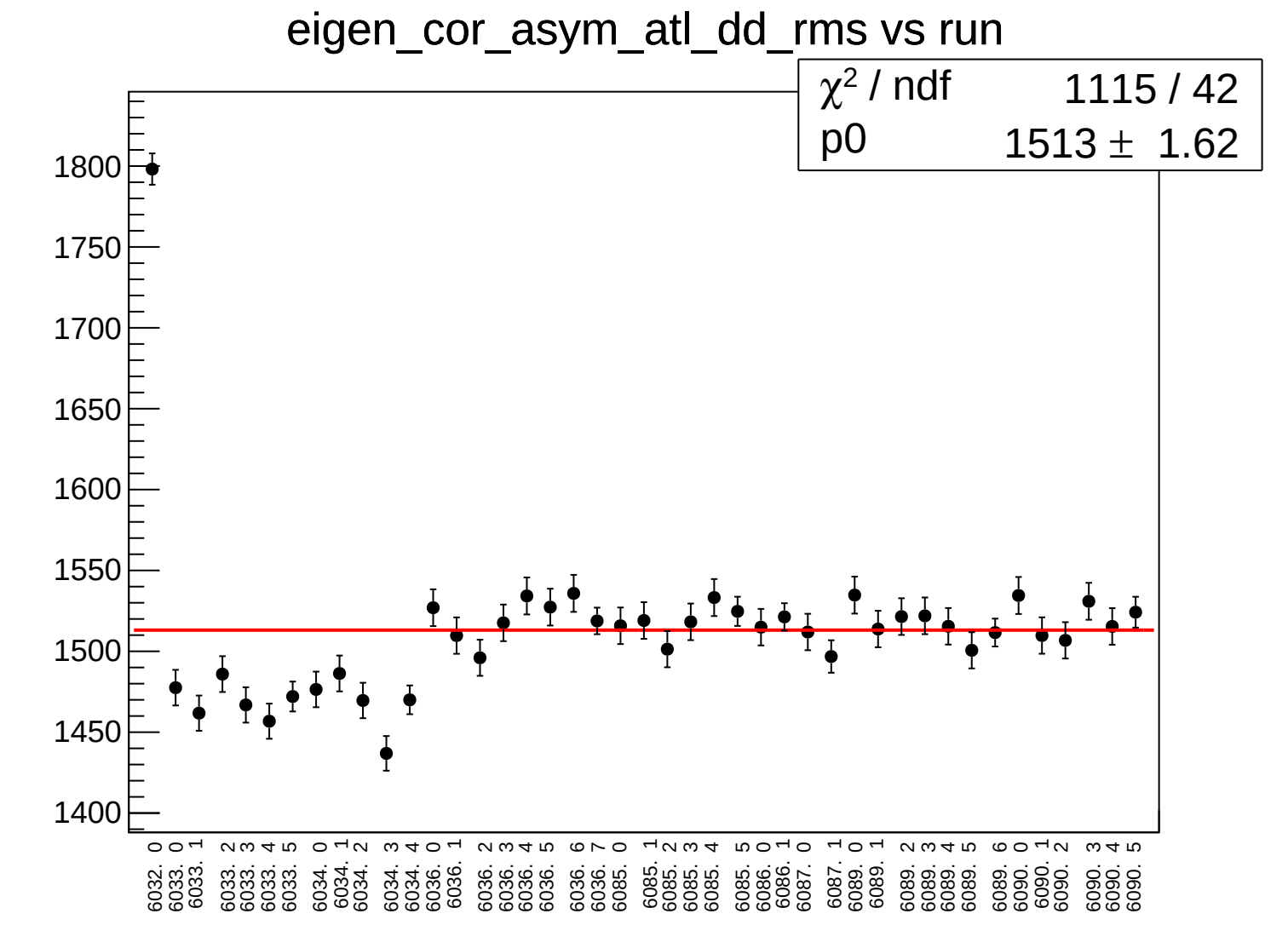

cor_asym_atl_dd_rms vs run
χ² / ndf 1115 / 42
p0 1513 ± 1.62
1800
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

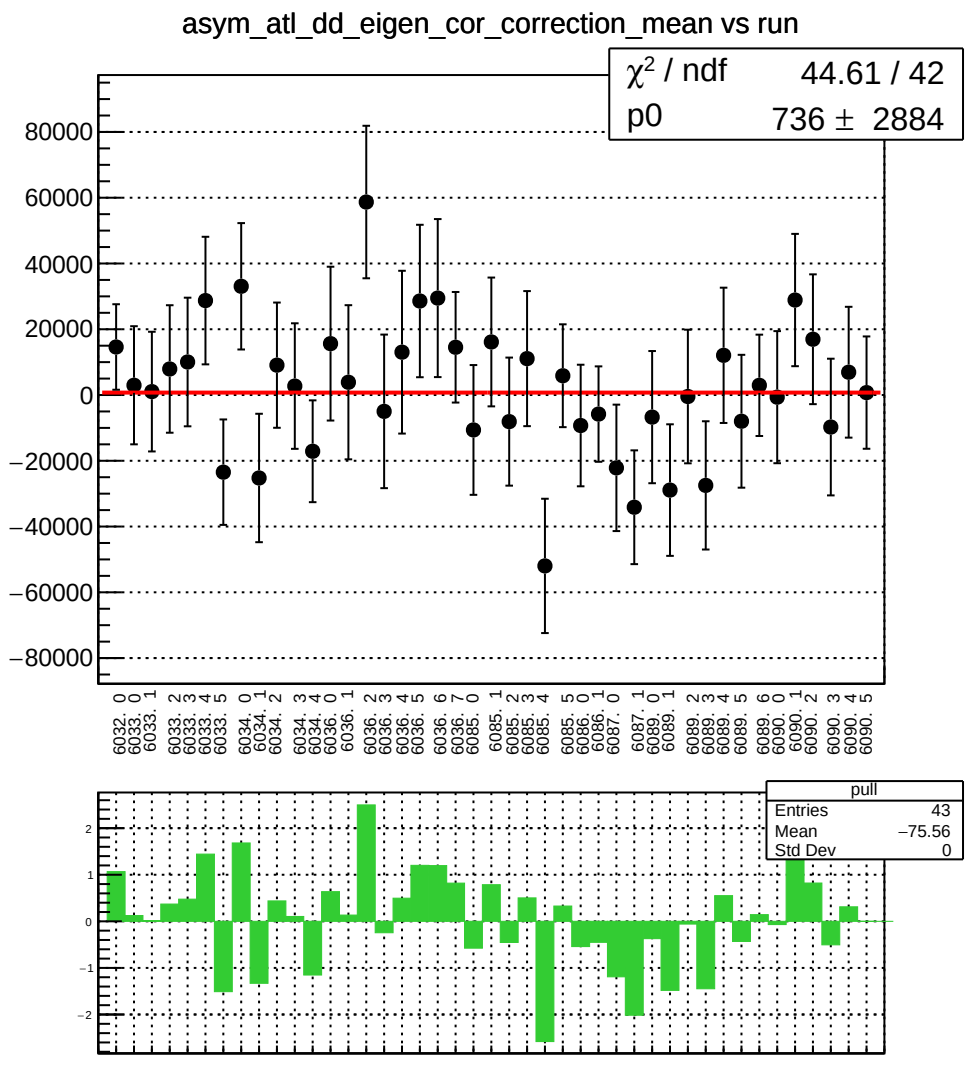

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 44.61 / 42
p0 736 ± 2884
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −75.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02656
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

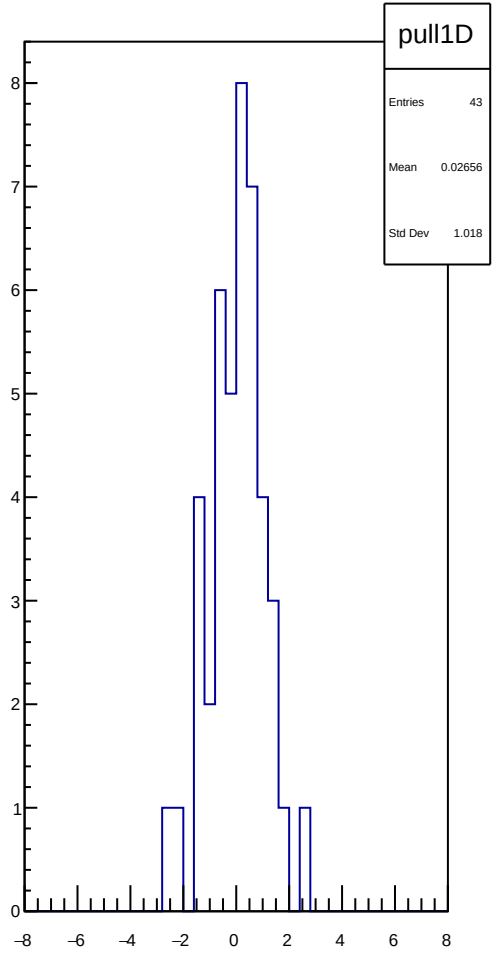

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5091 / 42
p0 1900 ± 2.04
2400
2300
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

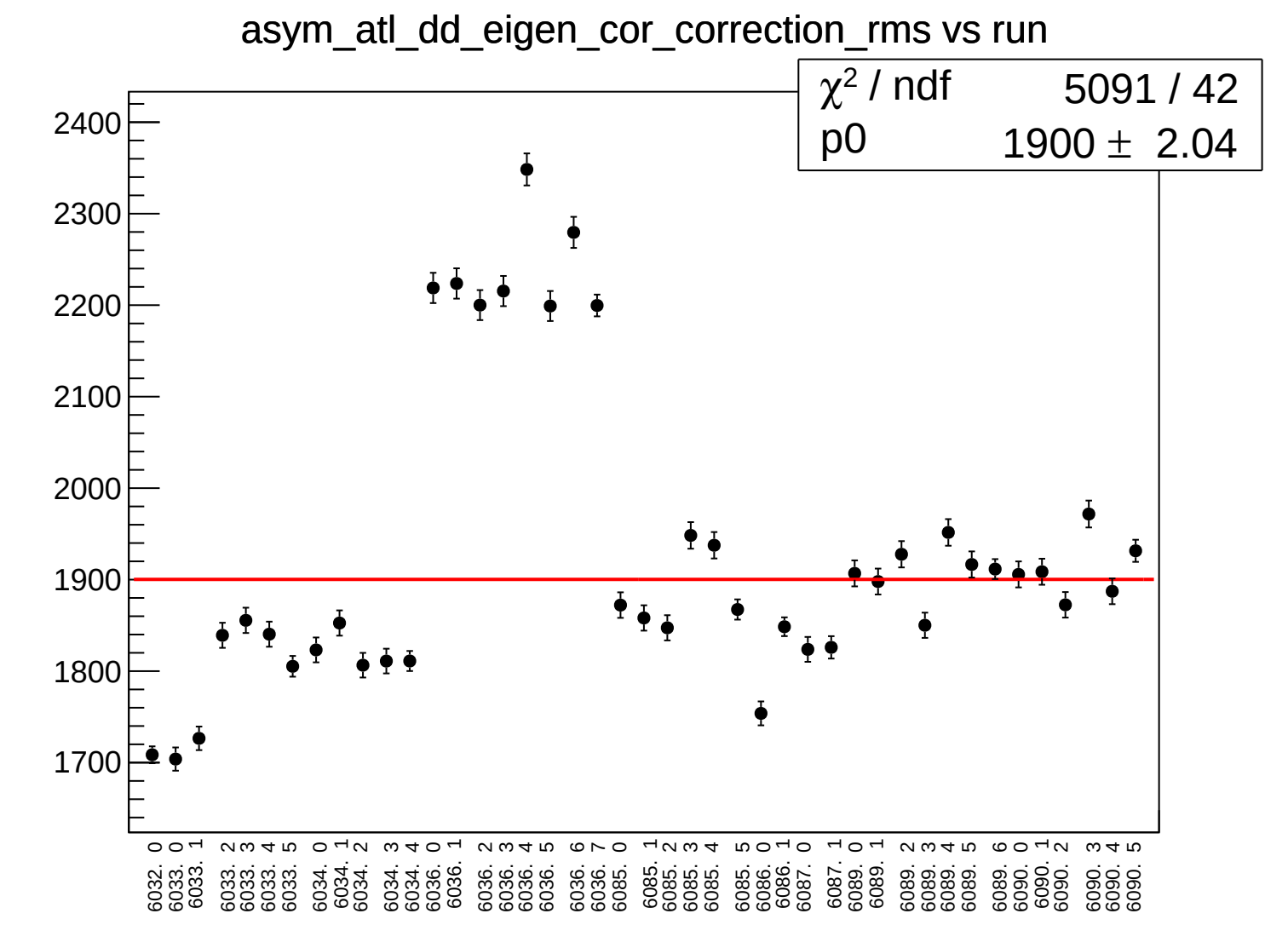

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 35.62 / 42
p0 −2121 ± 2292
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 213.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

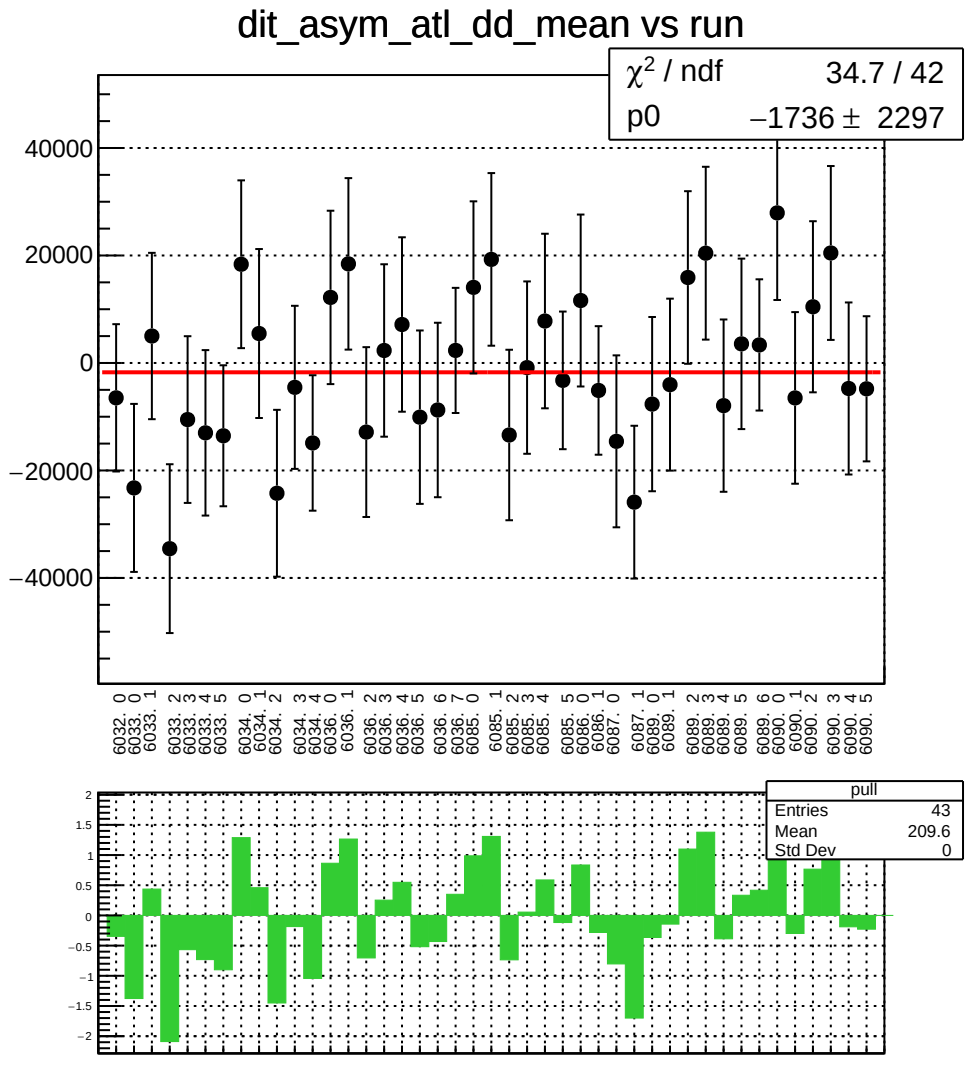

pull1D
Entries 43
Mean 0.01967
Std Dev 0.9099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

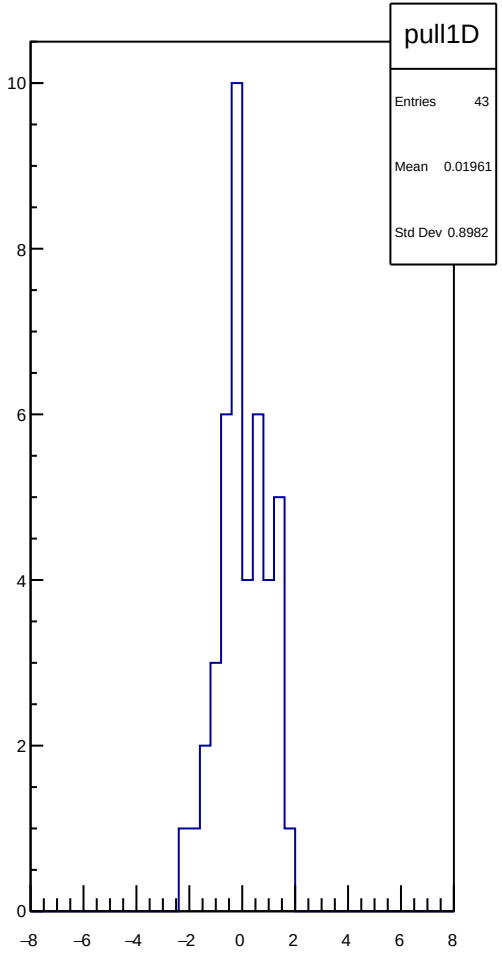

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 1115 / 42
p0 1513 ± 1.62
1800
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

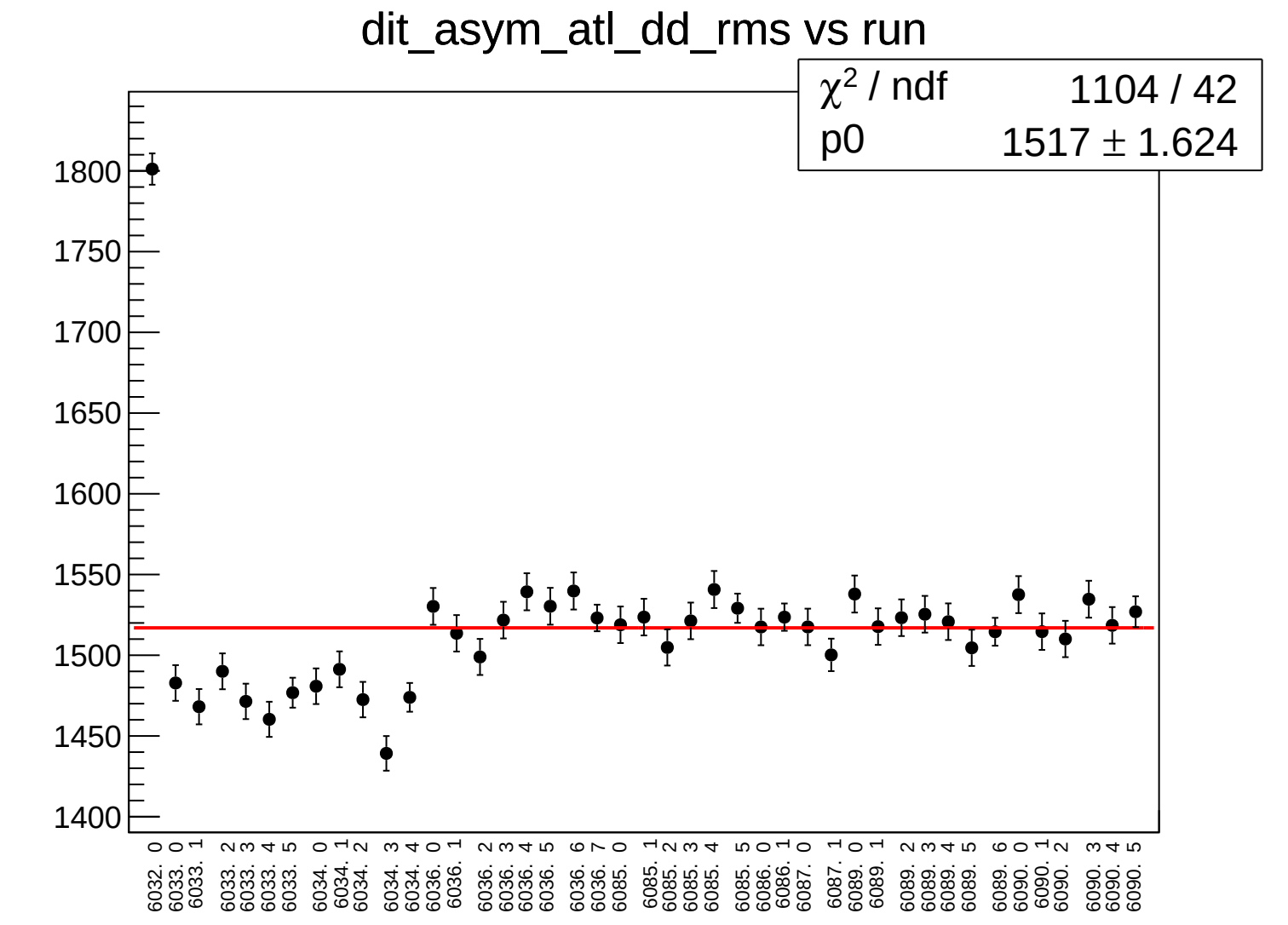

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 44.61 / 42
p0 736 ± 2884
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −75.56
Std Dev 0
2
1
0
−1
−2

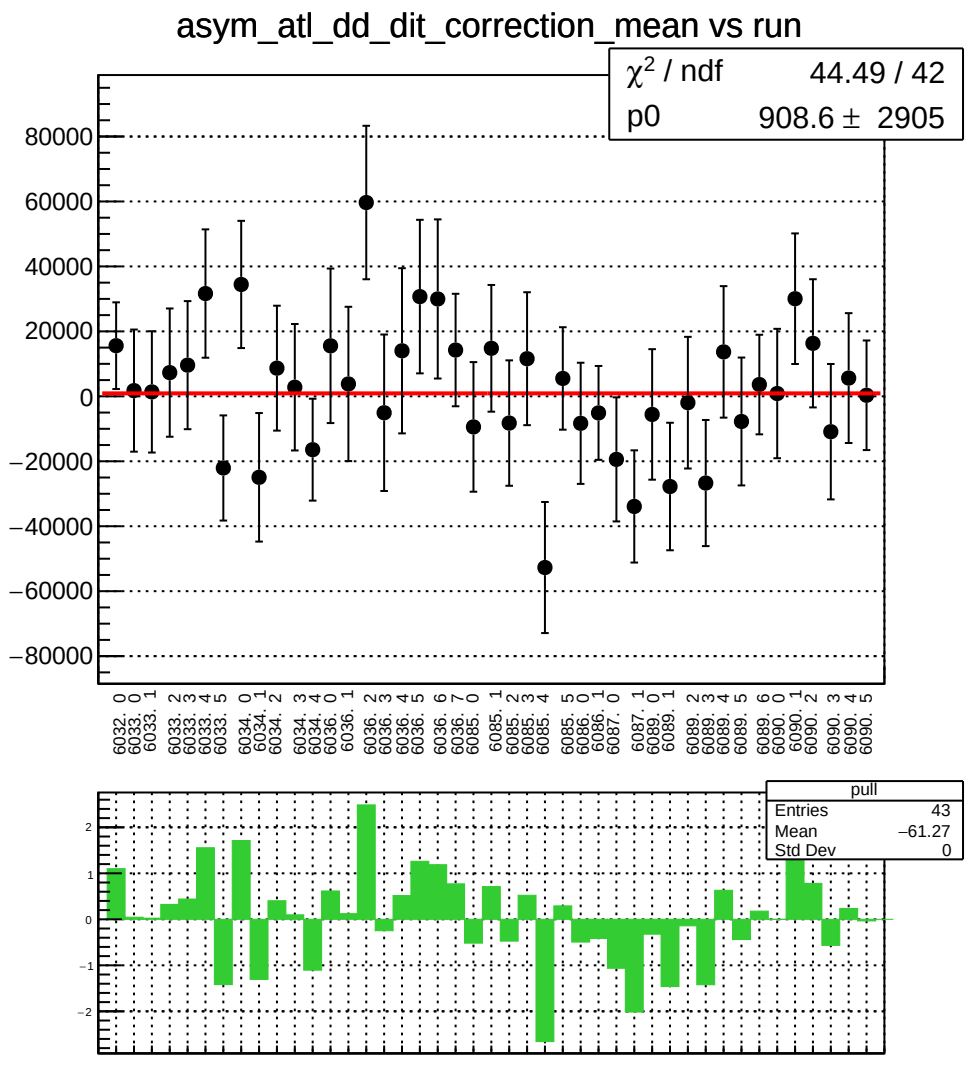

pull1D
Entries 43
Mean 0.02656
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

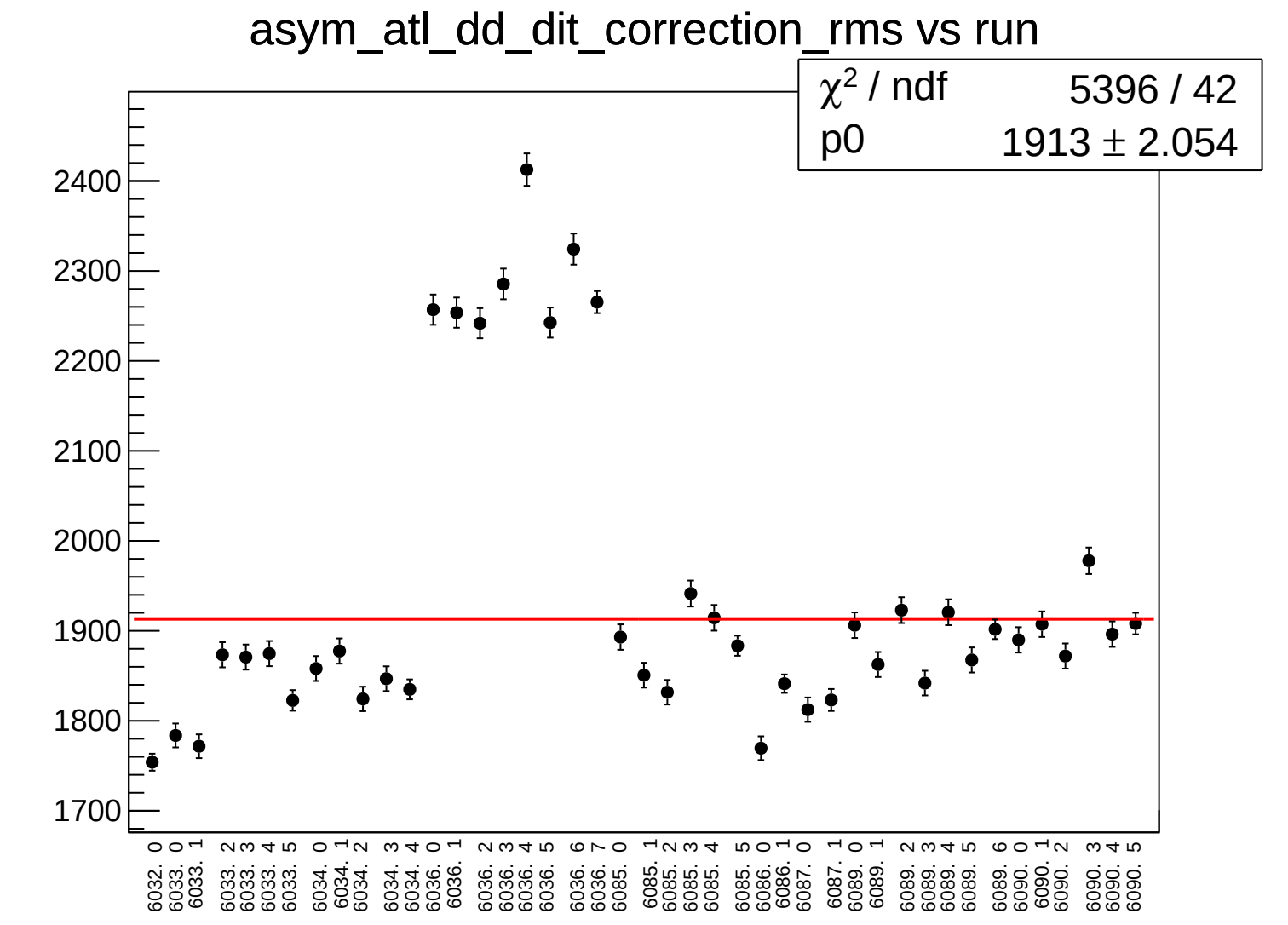

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 5091 / 42
p0 1900 ± 2.04
2400
2300
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

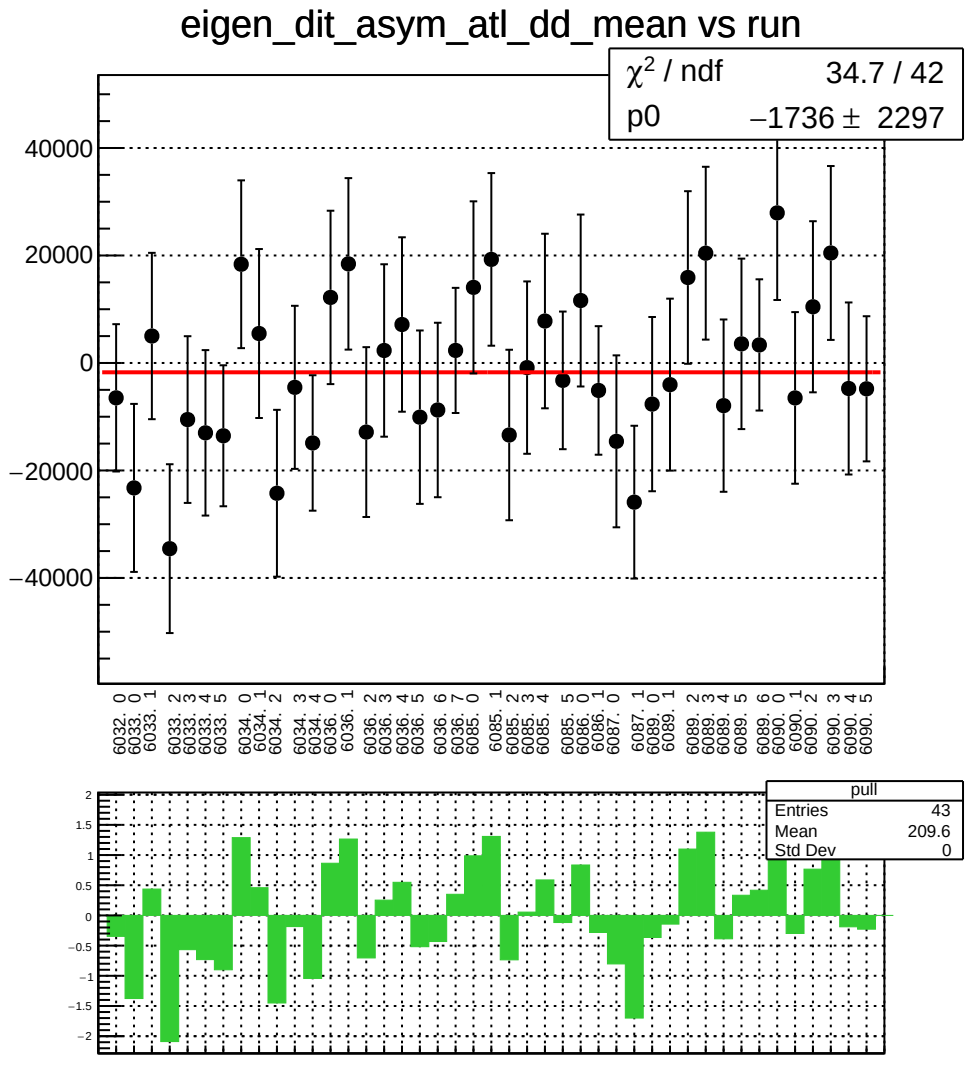

dit_asym_atl_dd_mean vs run
χ² / ndf 34.7 / 42
p0 −1736 ± 2297
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 209.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

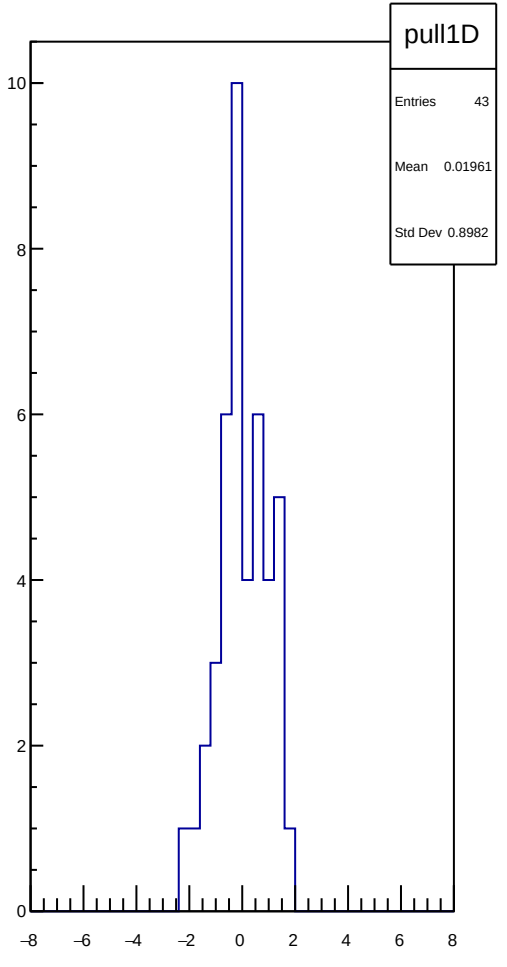

pull1D
Entries 43
Mean 0.01961
Std Dev 0.8982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

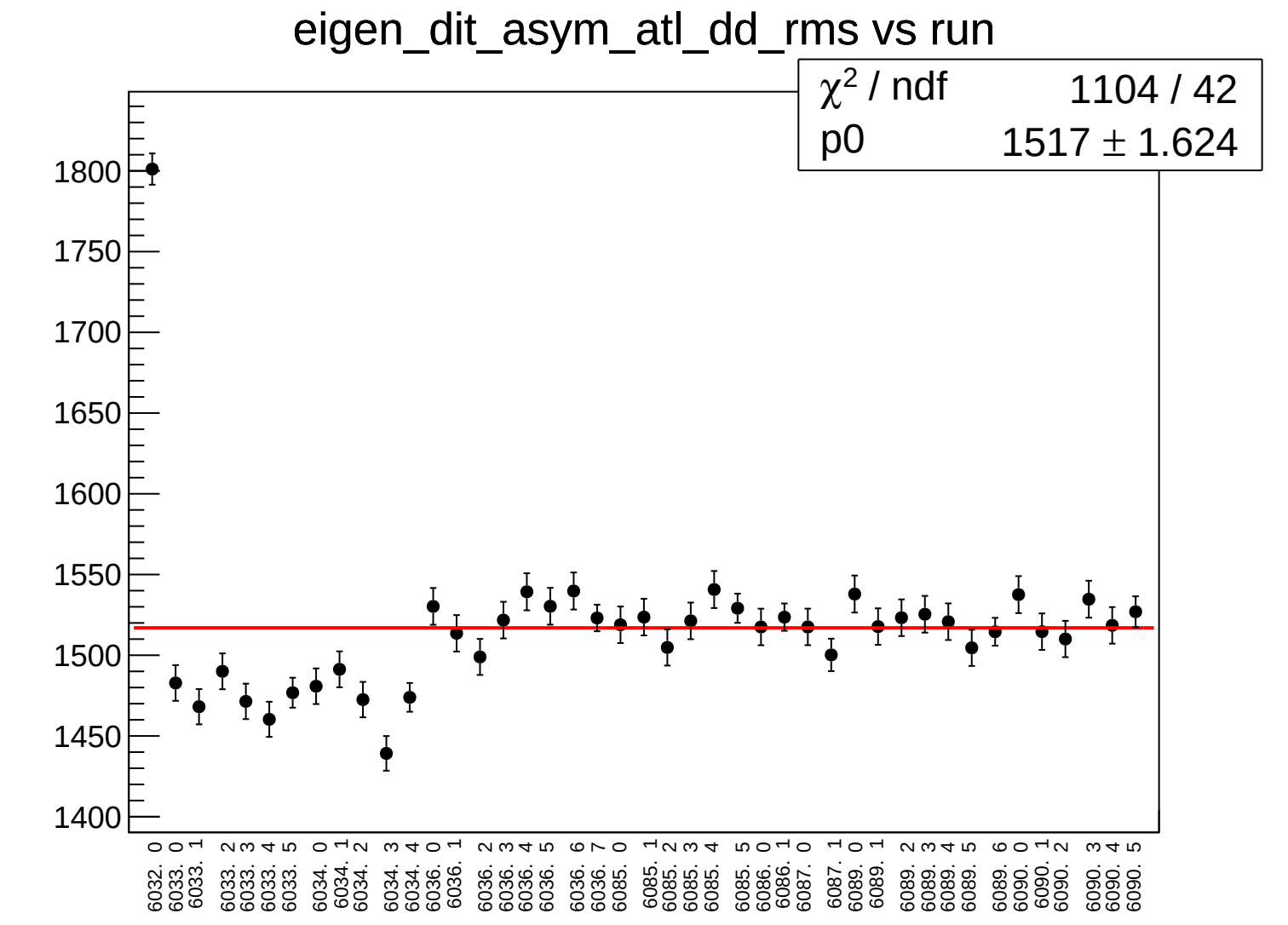

dit_asym_atl_dd_rms vs run
χ² / ndf 1104 / 42
p0 1517 ± 1.624
1800
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

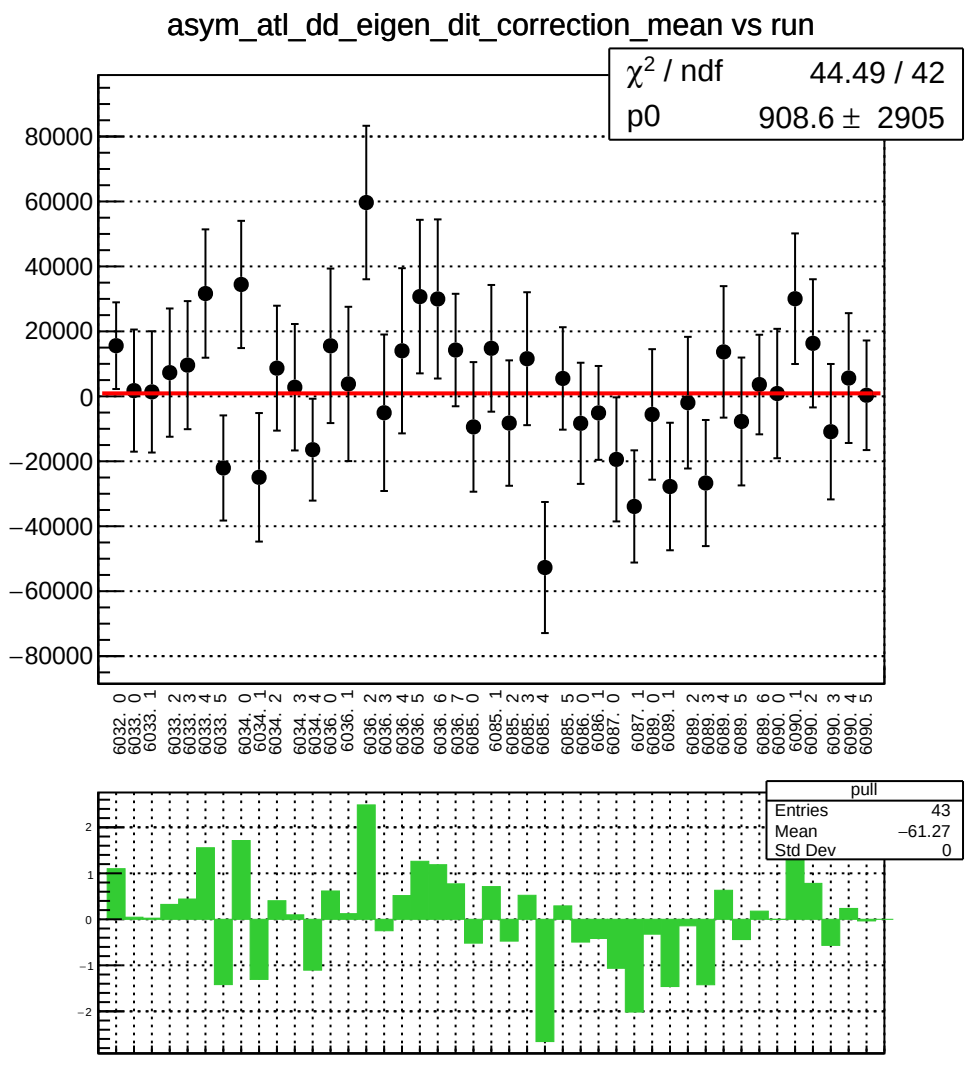

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 44.49 / 42
p0 908.6 ± 2905
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −61.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03152
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

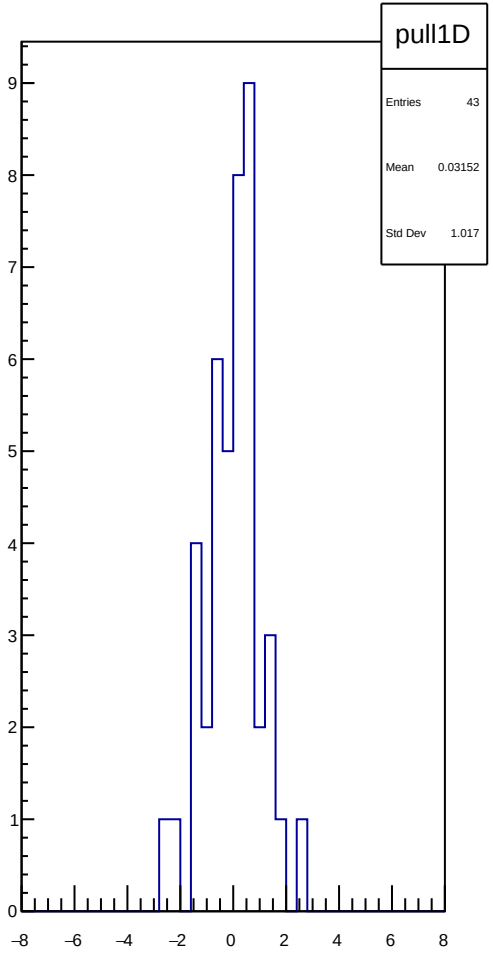

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5396 / 42
p0 1913 ± 2.054
2400
2300
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

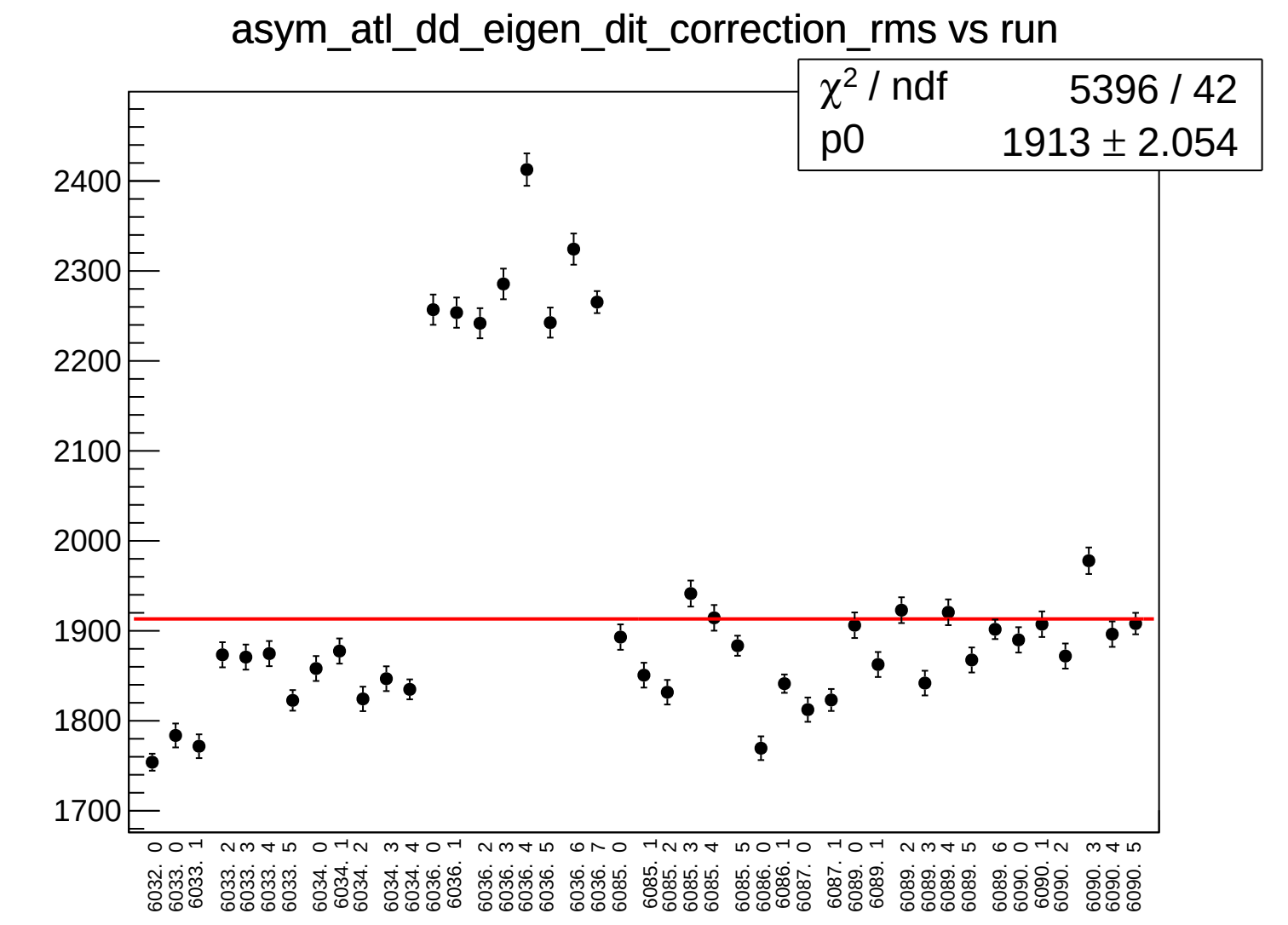

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 34.7 / 42
p0 −1736 ± 2297
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 209.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

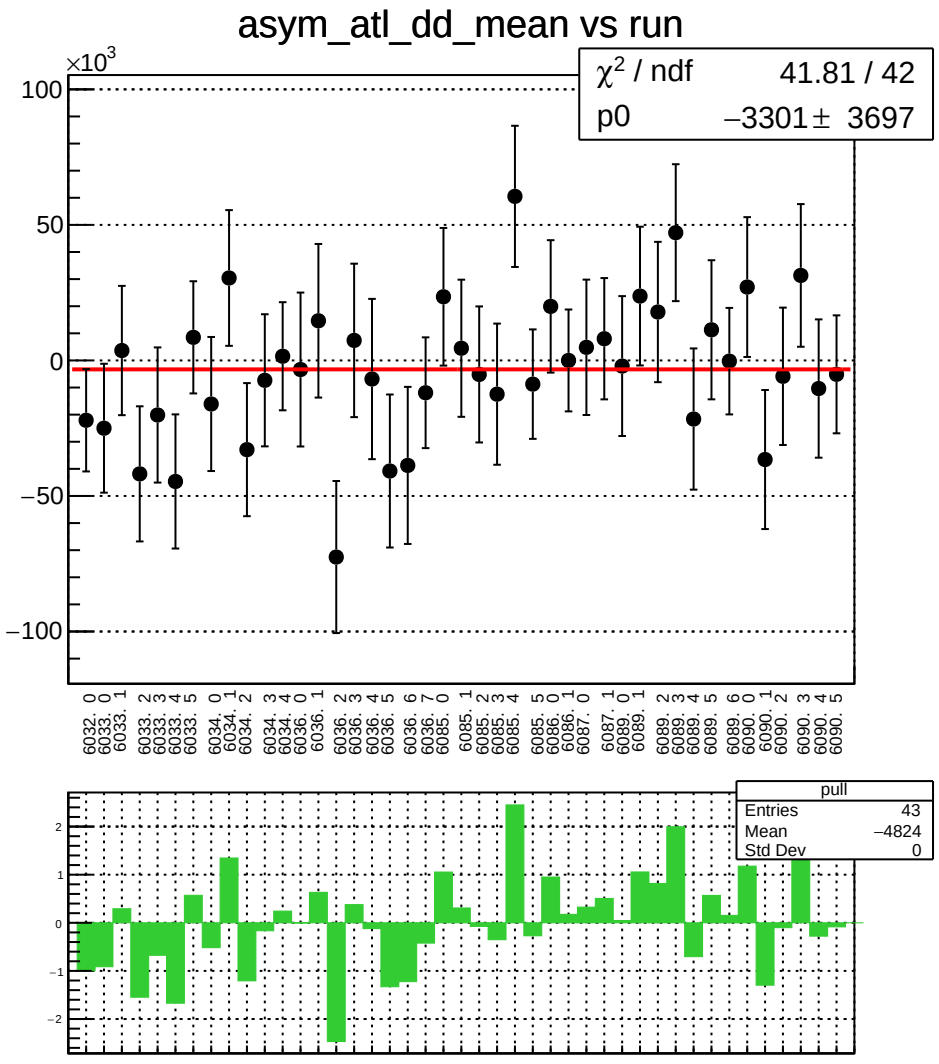

pull1D
Entries 43
Mean 0.01961
Std Dev 0.8982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

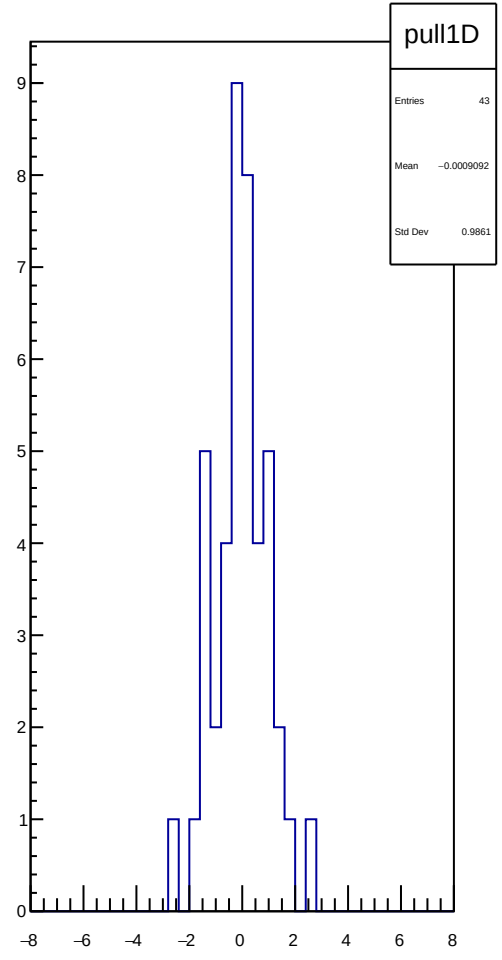

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 1104 / 42
p0 1517 ± 1.624
1800
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

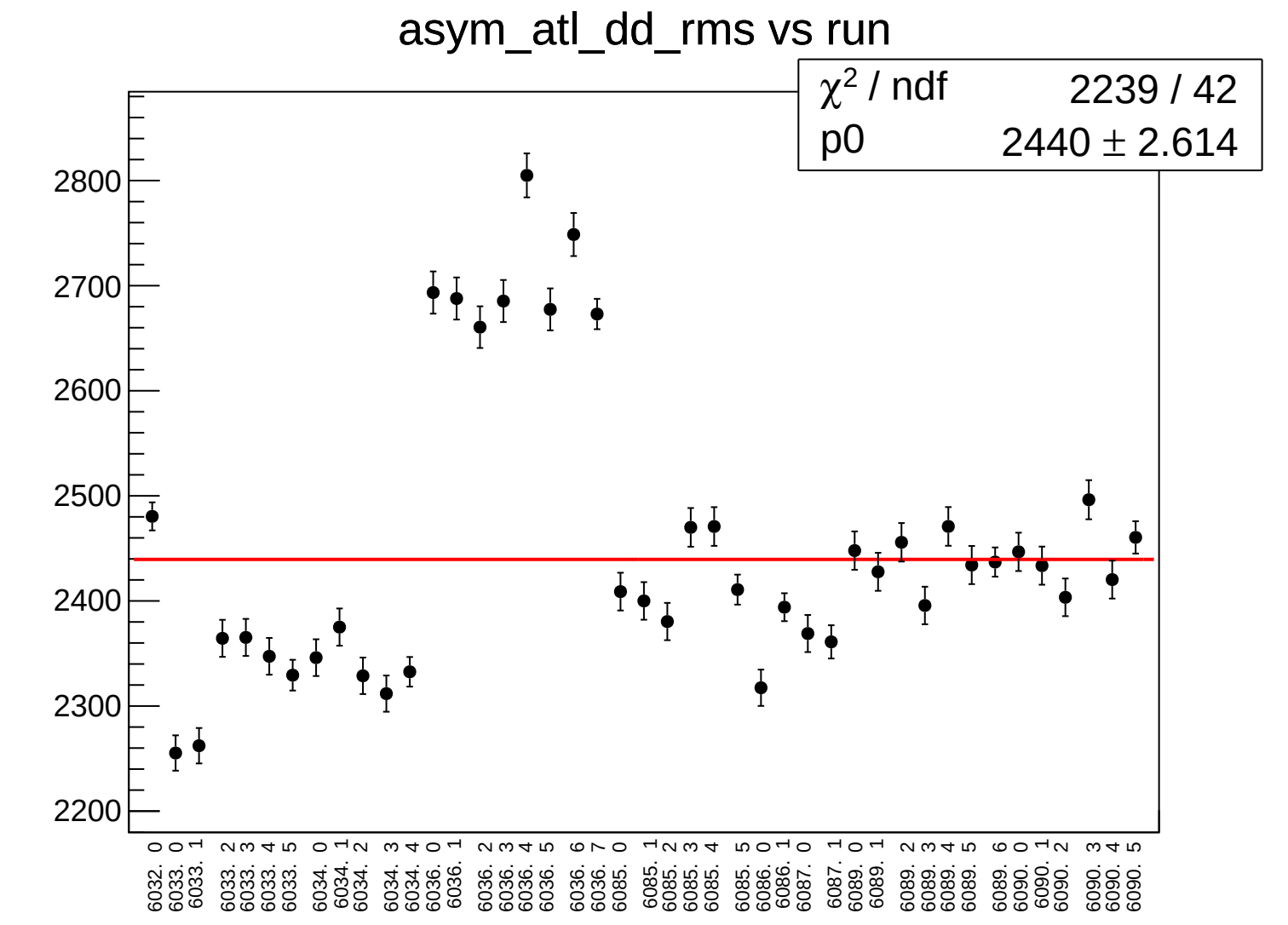

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 44.49 / 42
p0 908.6 ± 2905
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −61.27
Std Dev 0
2
1
0
−1
−2

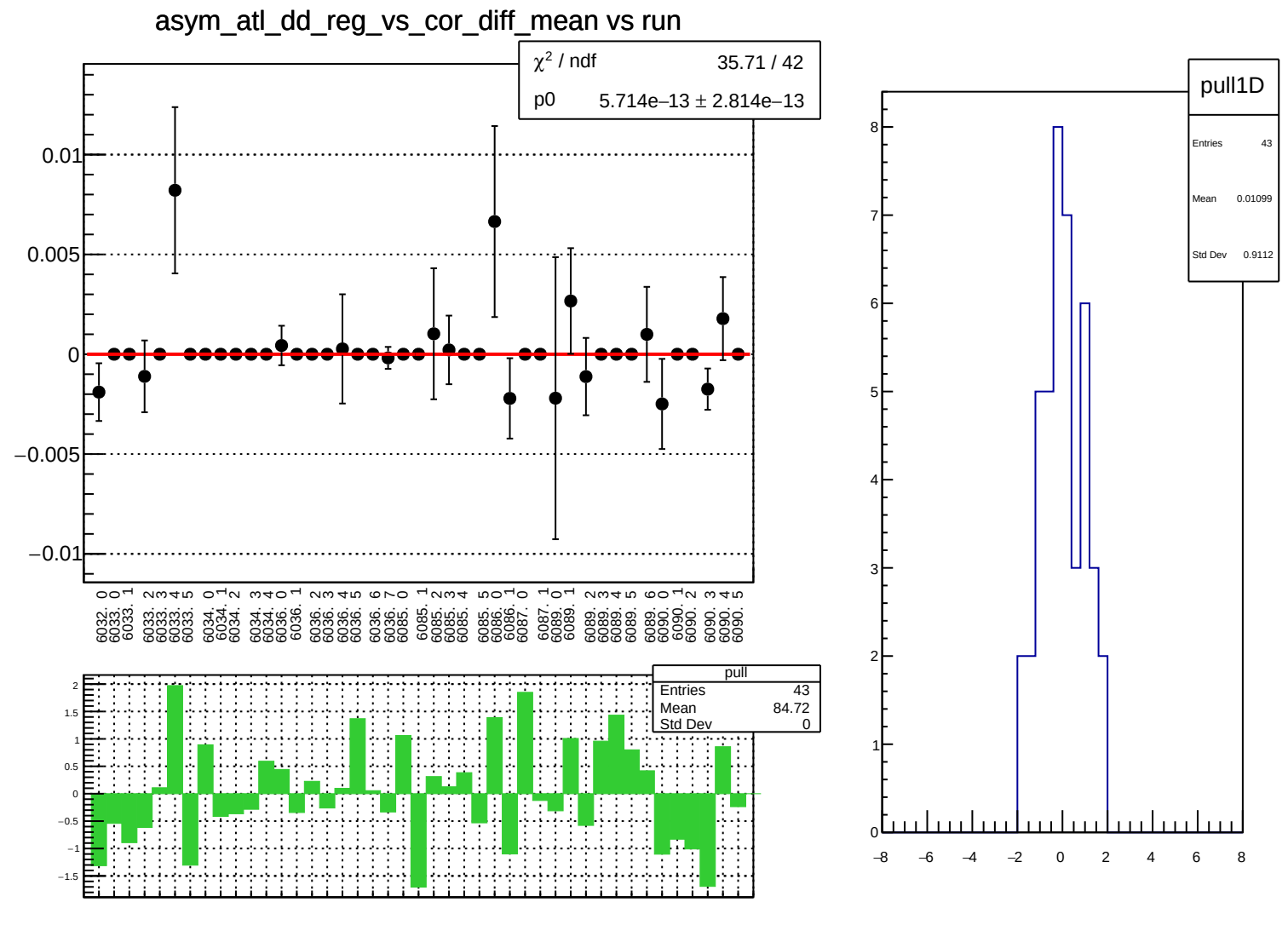

pull1D
Entries 43
Mean 0.03152
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

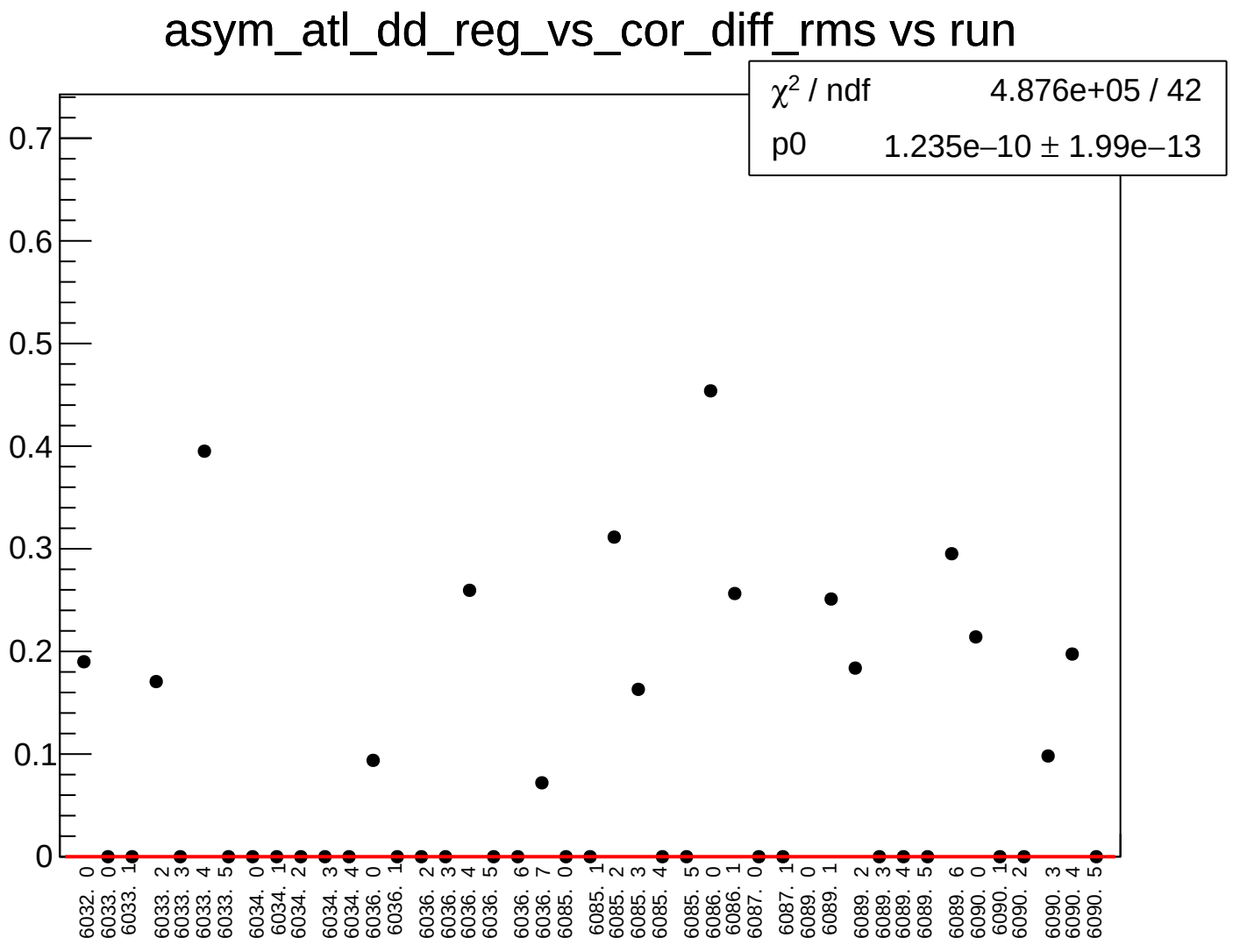

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5396 / 42
p0 1913 ± 2.054
2400
2300
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

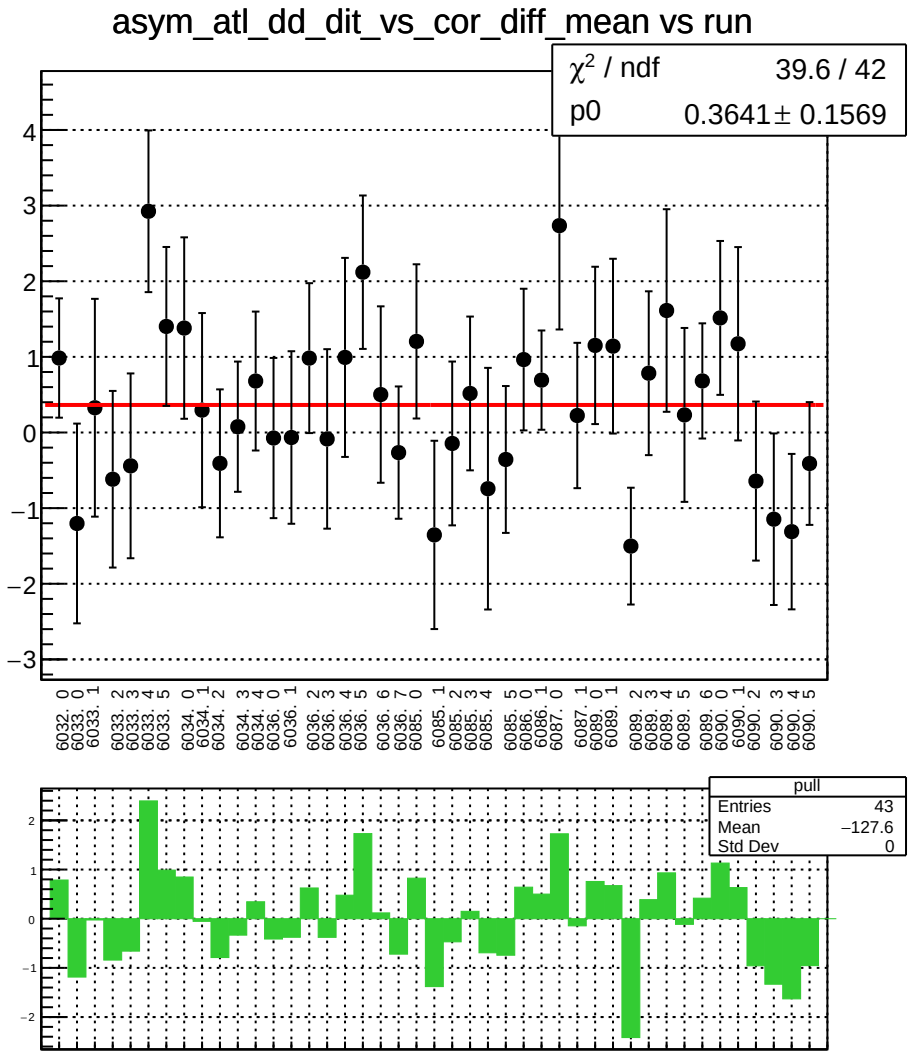

asym_atl_dd_mean vs run
×10^3
χ² / ndf 41.81 / 42
p0 −3301 ± 3697
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4824
Std Dev 0
2
1
0
−1
−2

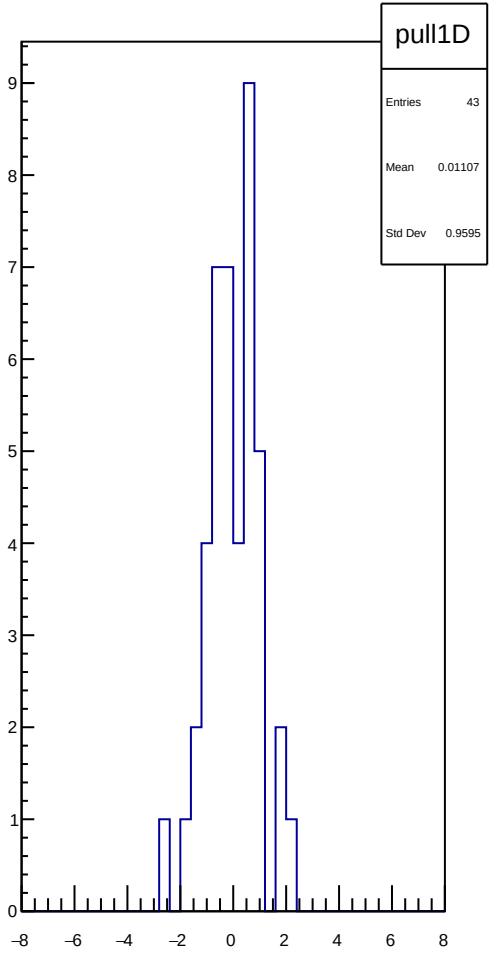

pull1D
Entries 43
Mean −0.0009092
Std Dev 0.9861
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

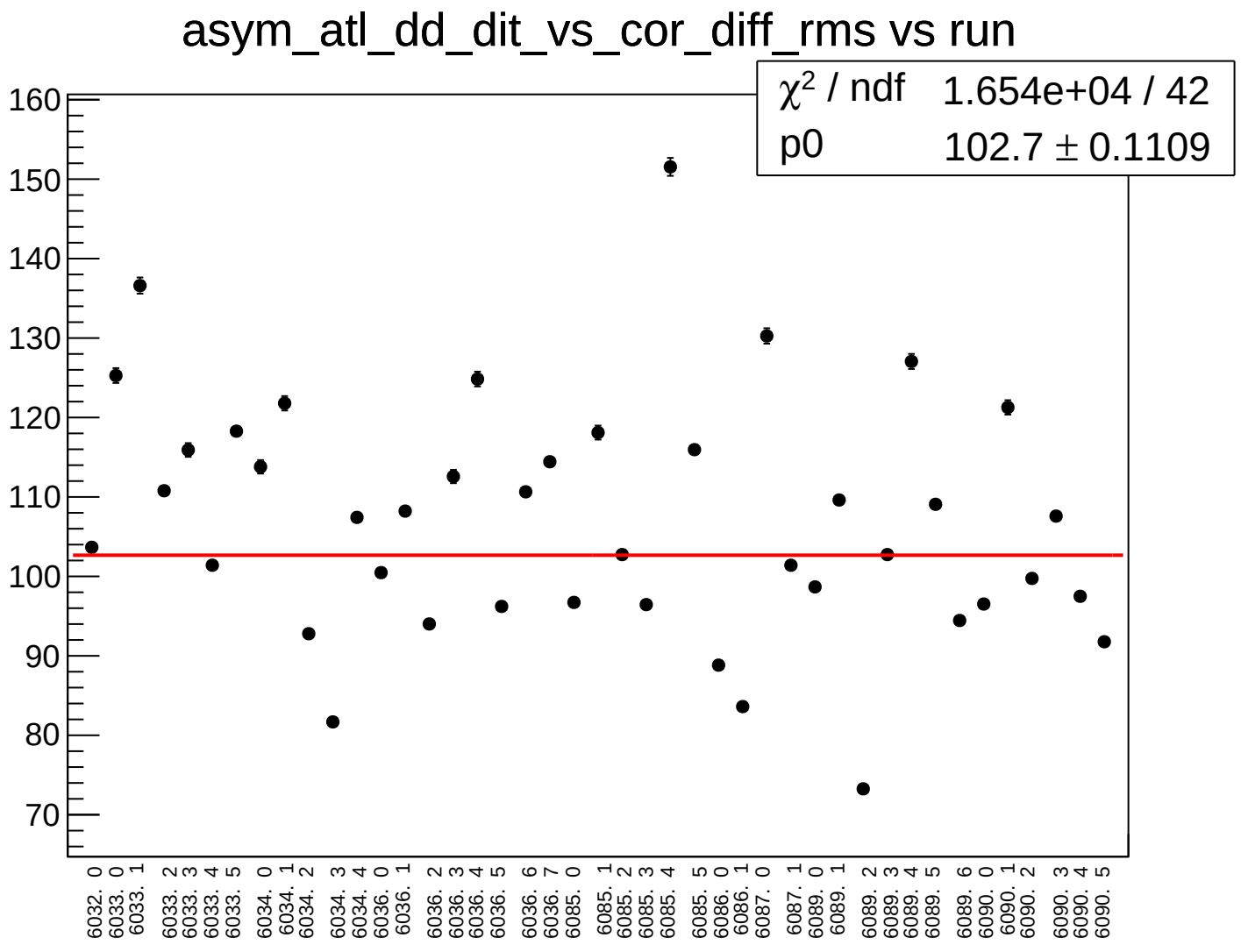

asym_atl_dd_rms vs run
χ² / ndf 2239 / 42
p0 2440 ± 2.614
2800
2700
2600
2500
2400
2300
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

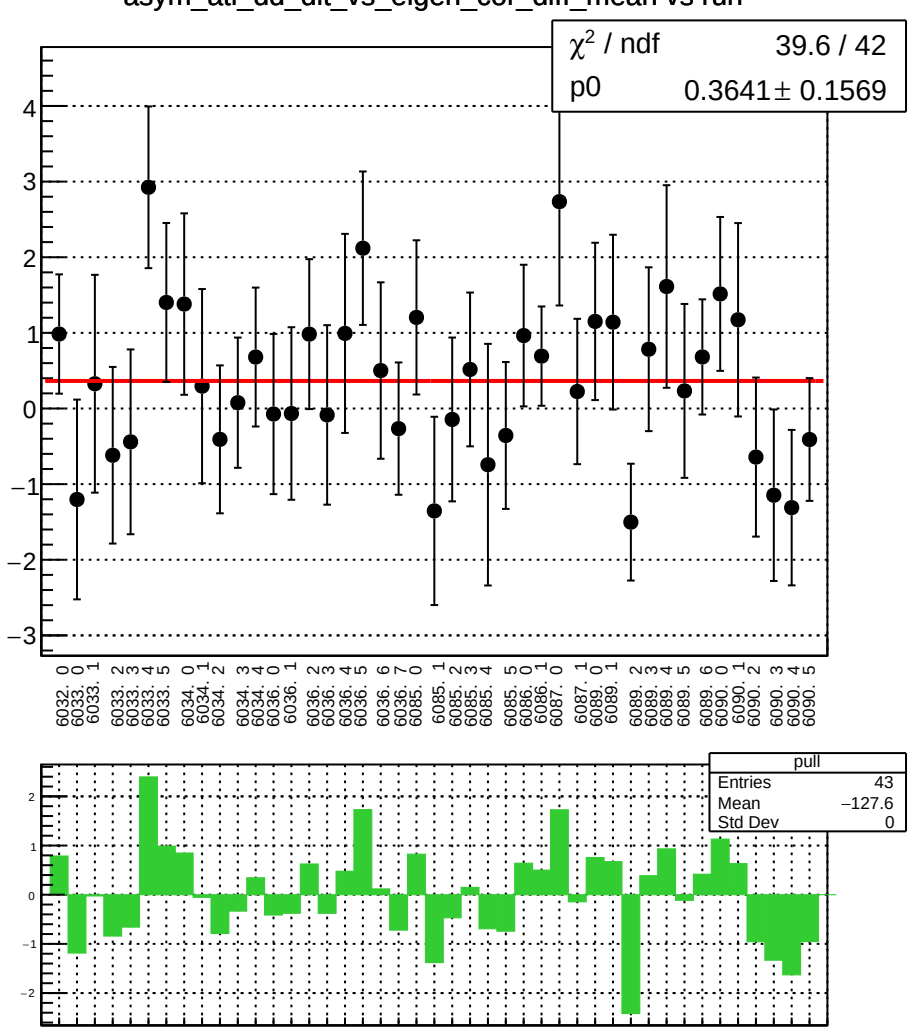

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.71 / 42
p0 5.714e−13 ± 2.814e−13
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 84.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01099
Std Dev 0.9112
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

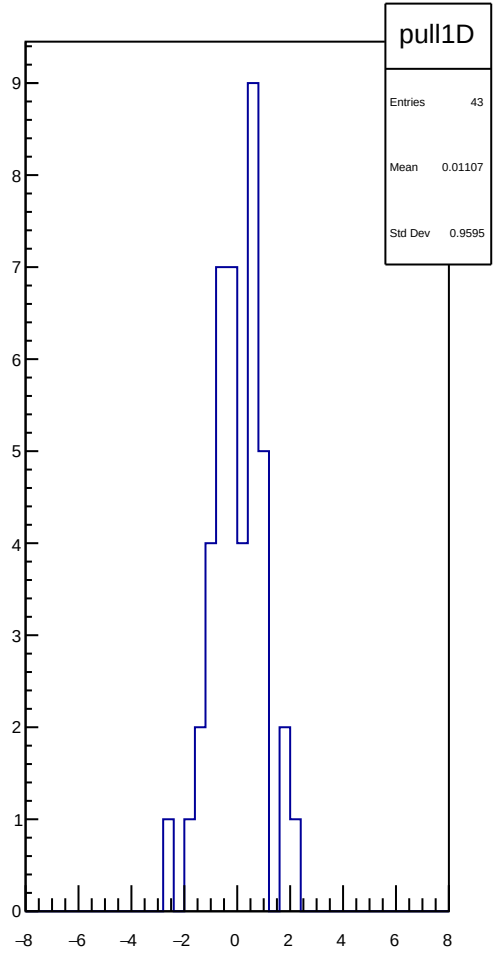

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.876e+05 / 42
p0 1.235e−10 ± 1.99e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

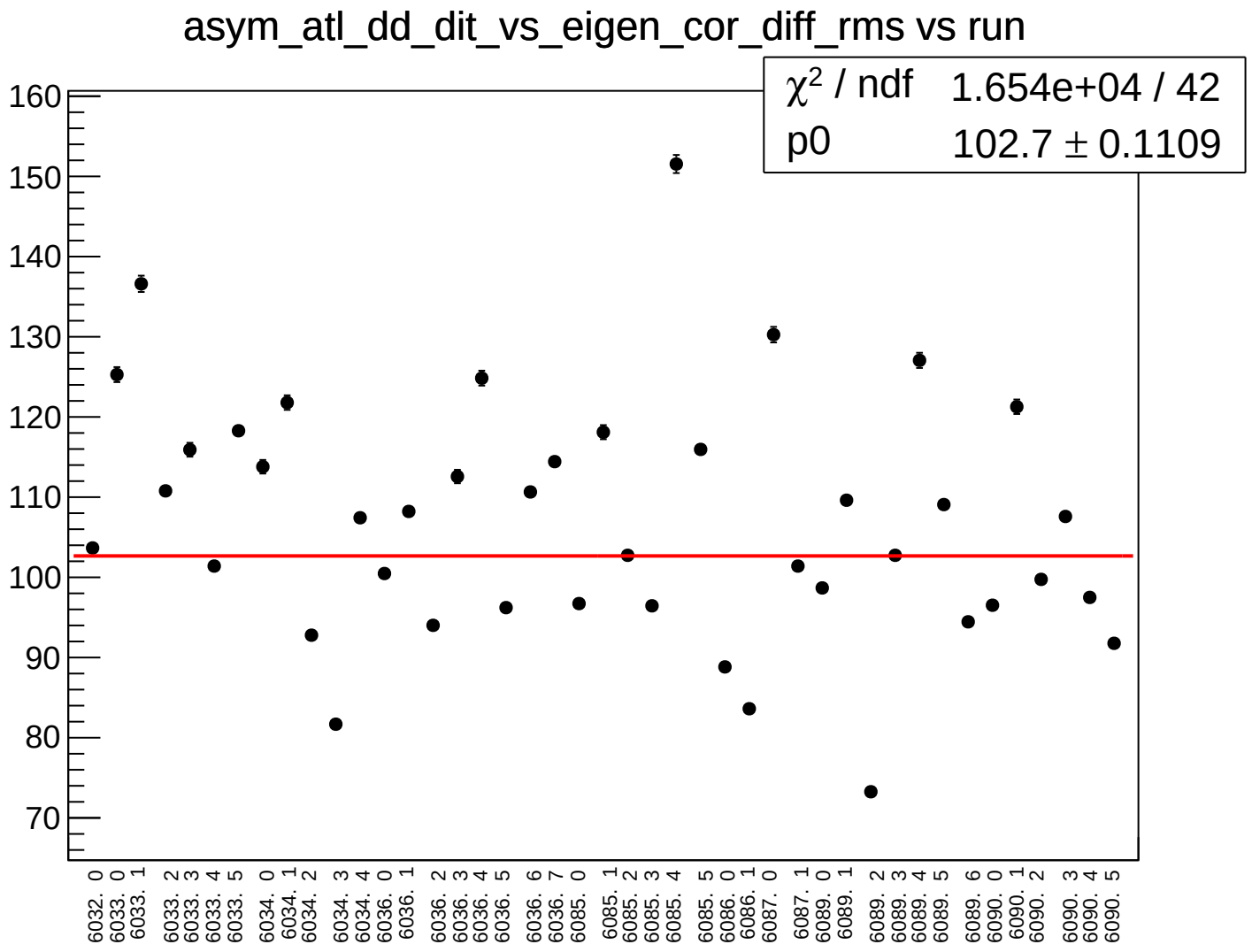

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.6 / 42
p0 0.3641 ± 0.1569
pull
Entries 43
Mean −127.6
Std Dev 0

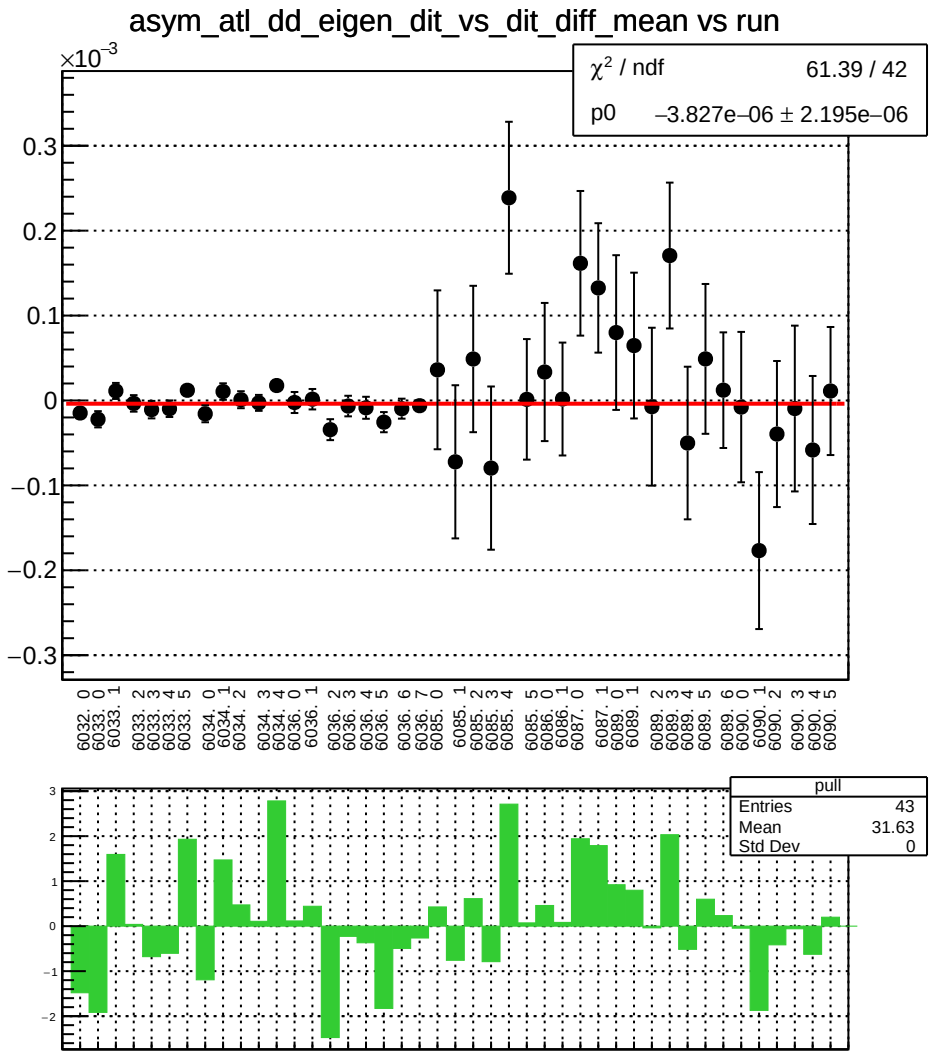

pull1D
Entries 43
Mean 0.01107
Std Dev 0.9595

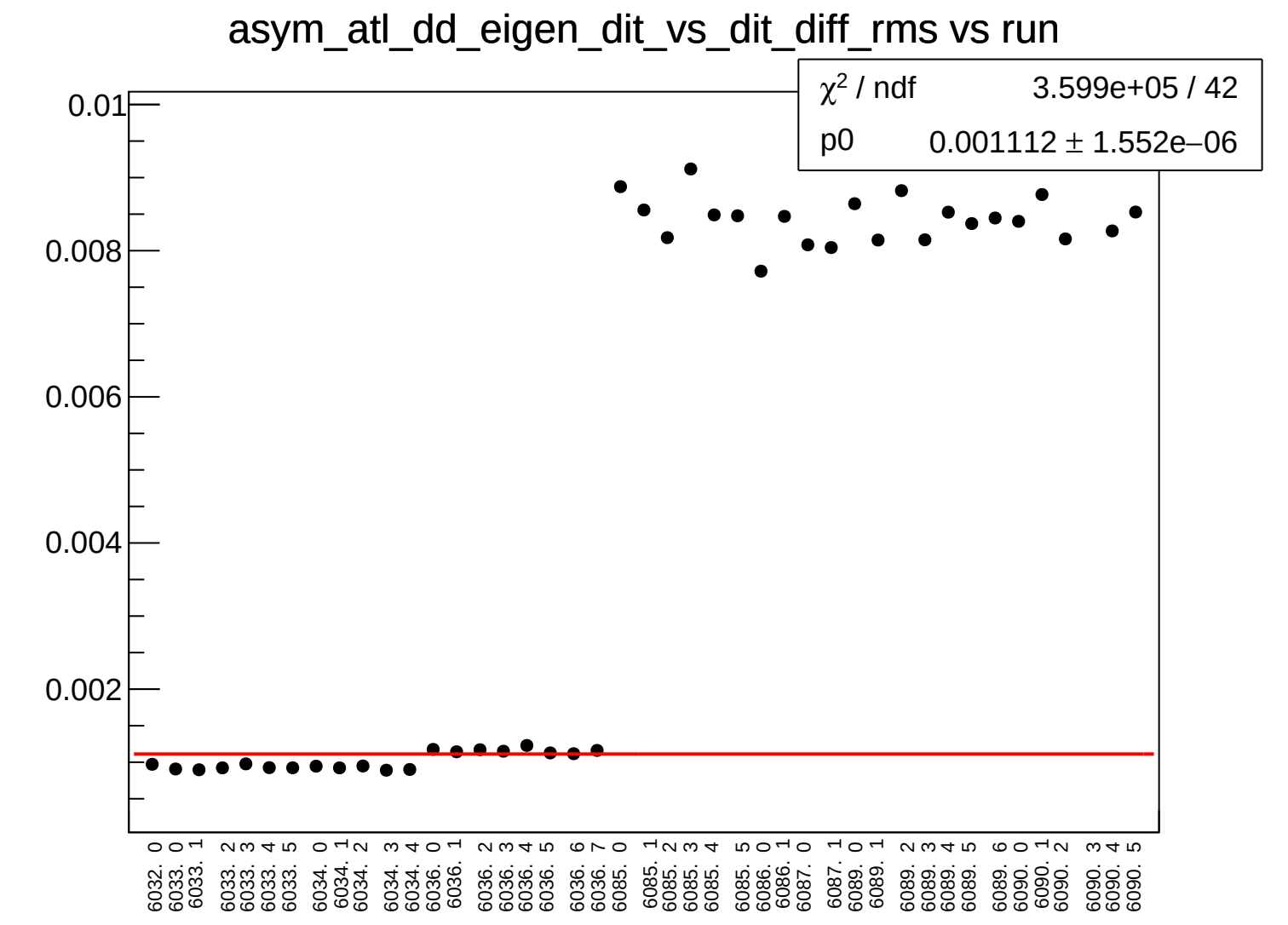

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.654e+04 / 42
p0 102.7 ± 0.1109
160
150
140
130
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

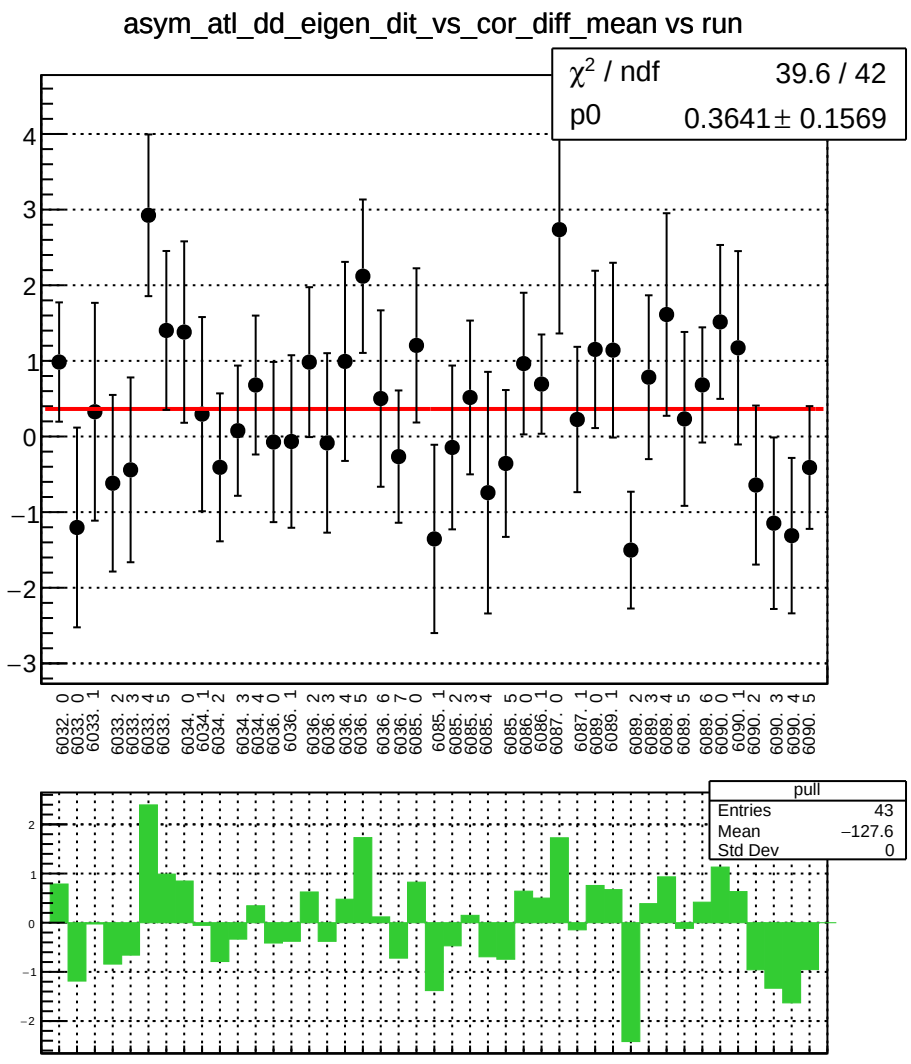

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.6 / 42
p0 0.3641 ± 0.1569
pull
Entries 43
Mean −127.6
Std Dev 0

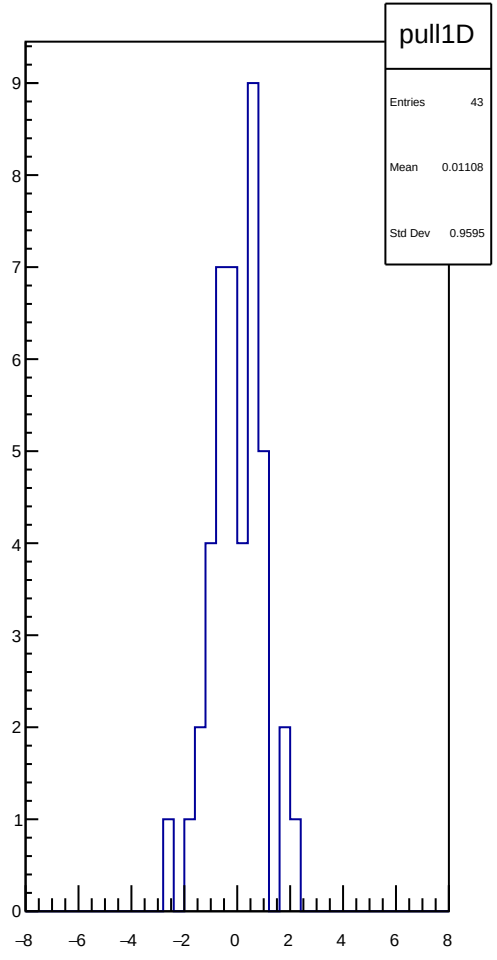

pull1D
Entries 43
Mean 0.01107
Std Dev 0.9595

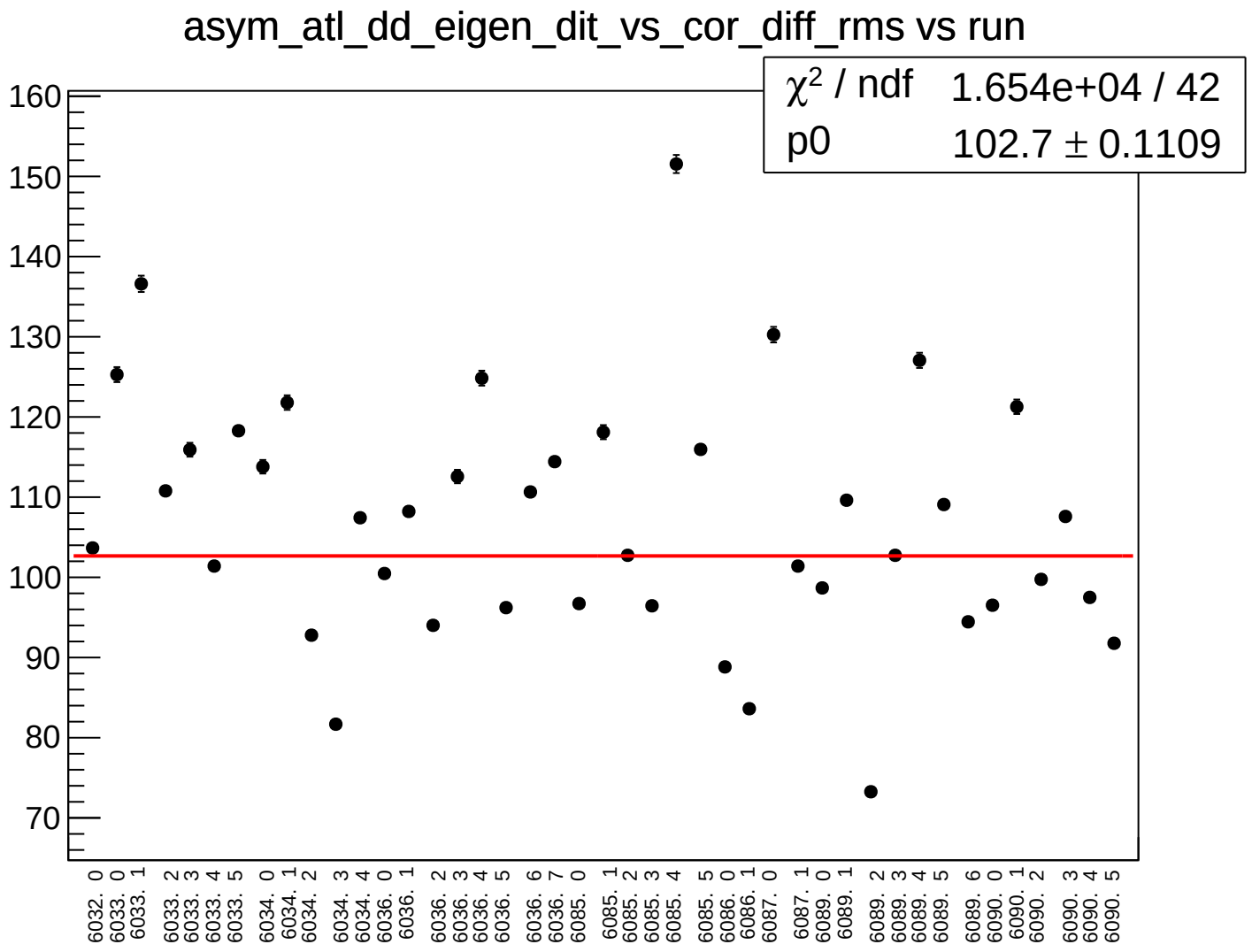

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.654e+04 / 42
p0 102.7 ± 0.1109
160
150
140
130
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

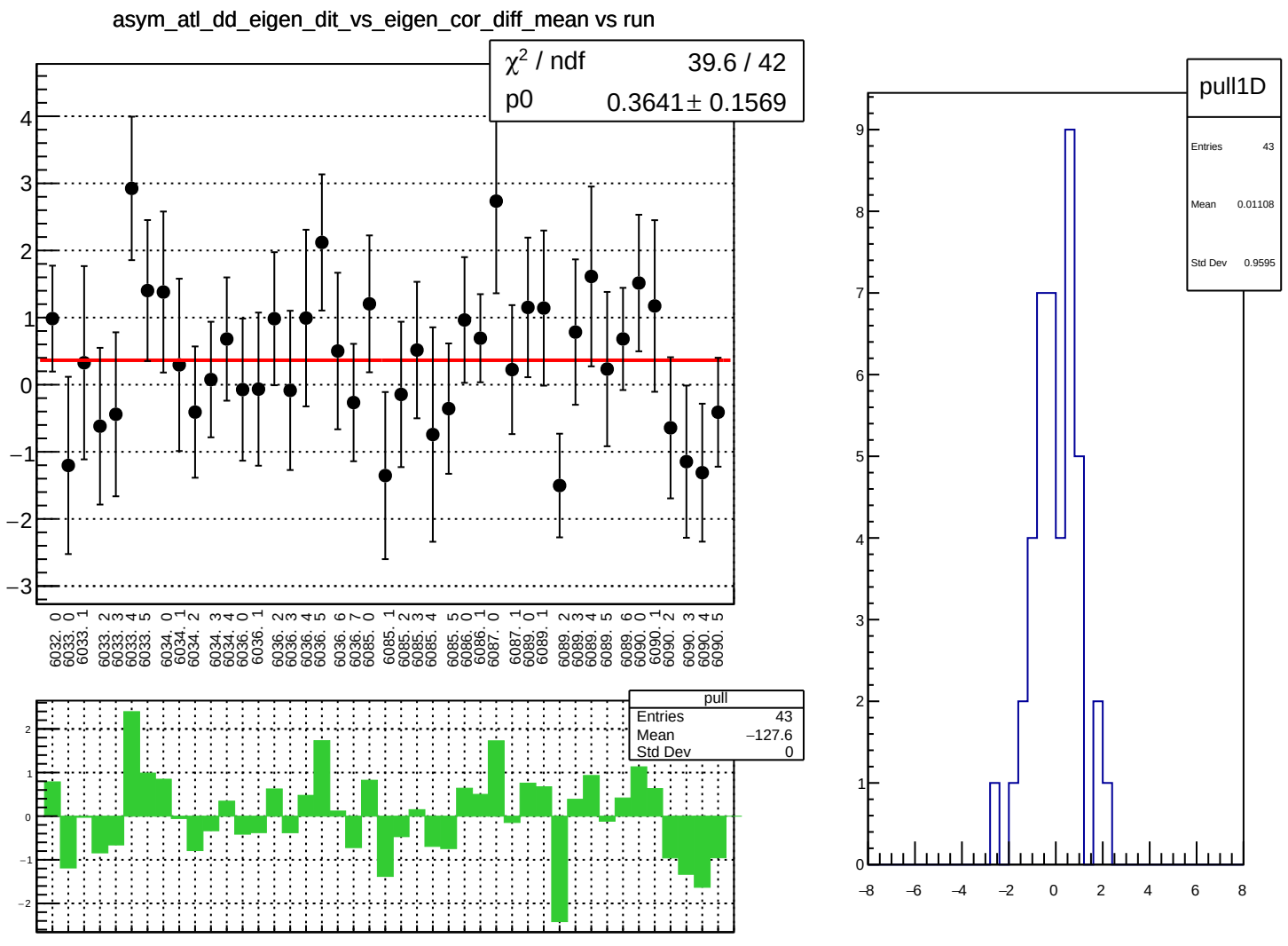

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.39 / 42
p0 −3.827e−06 ± 2.195e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.63
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1206
Std Dev 1.189
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

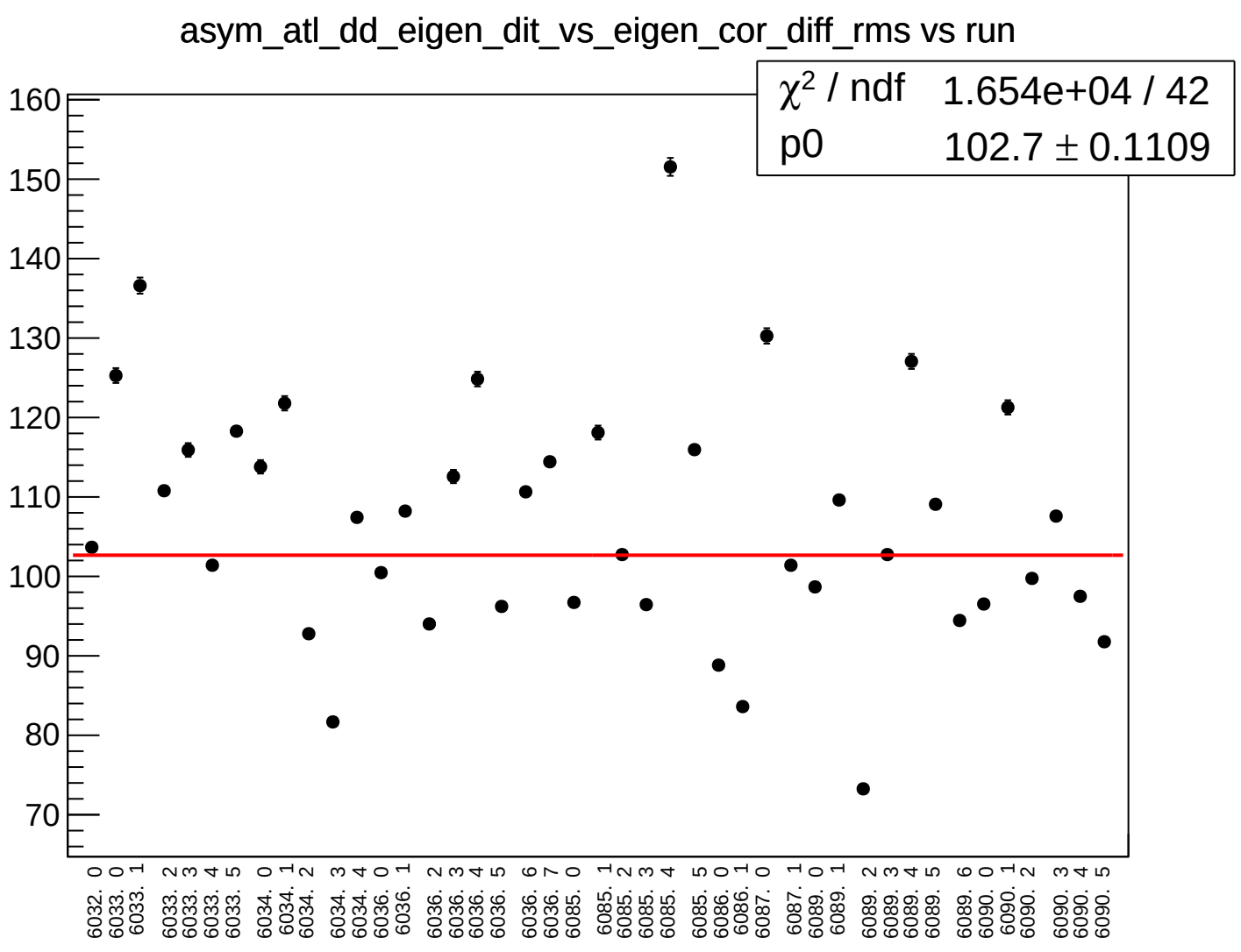

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.599e+05 / 42
p0 0.001112 ± 1.552e−06
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

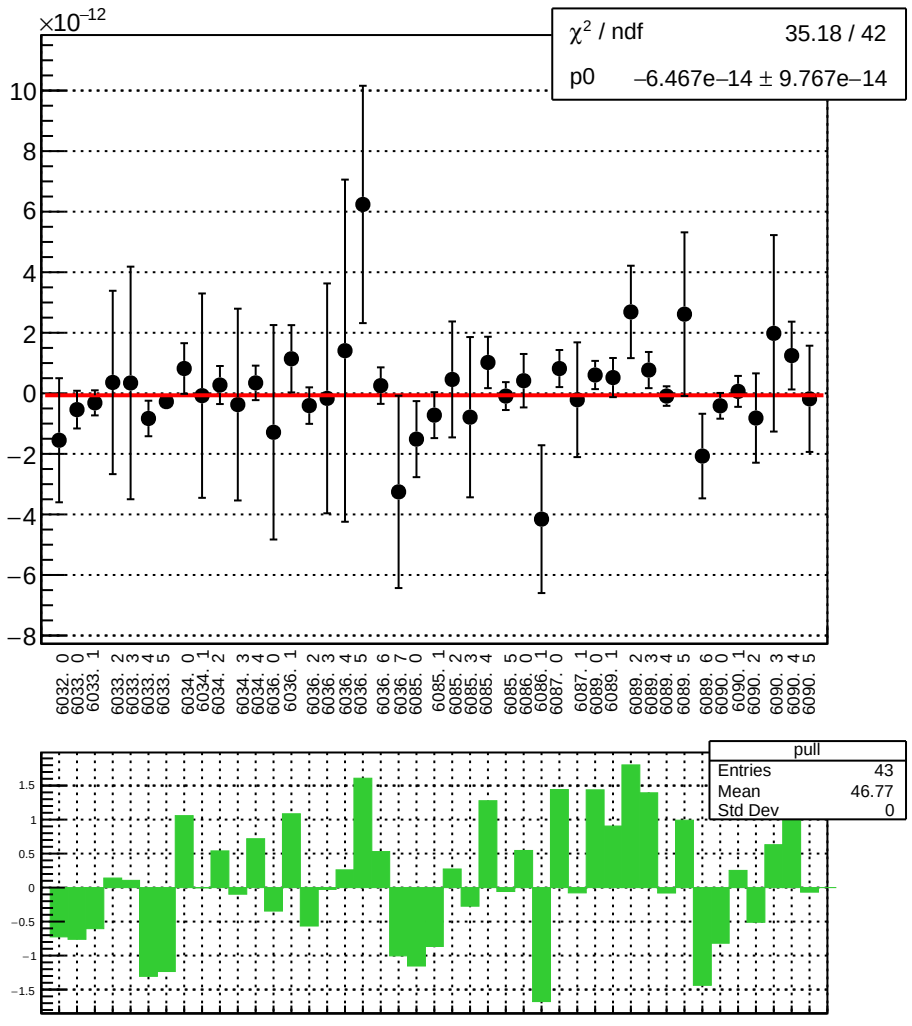

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.6 / 42
p0 0.3641 ± 0.1569
pull
Entries 43
Mean −127.6
Std Dev 0

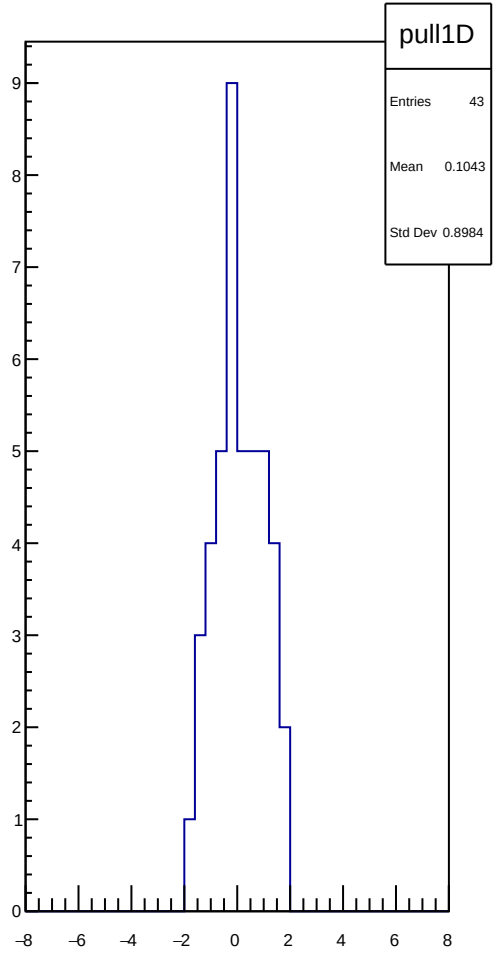

pull1D
Entries 43
Mean 0.01108
Std Dev 0.9595

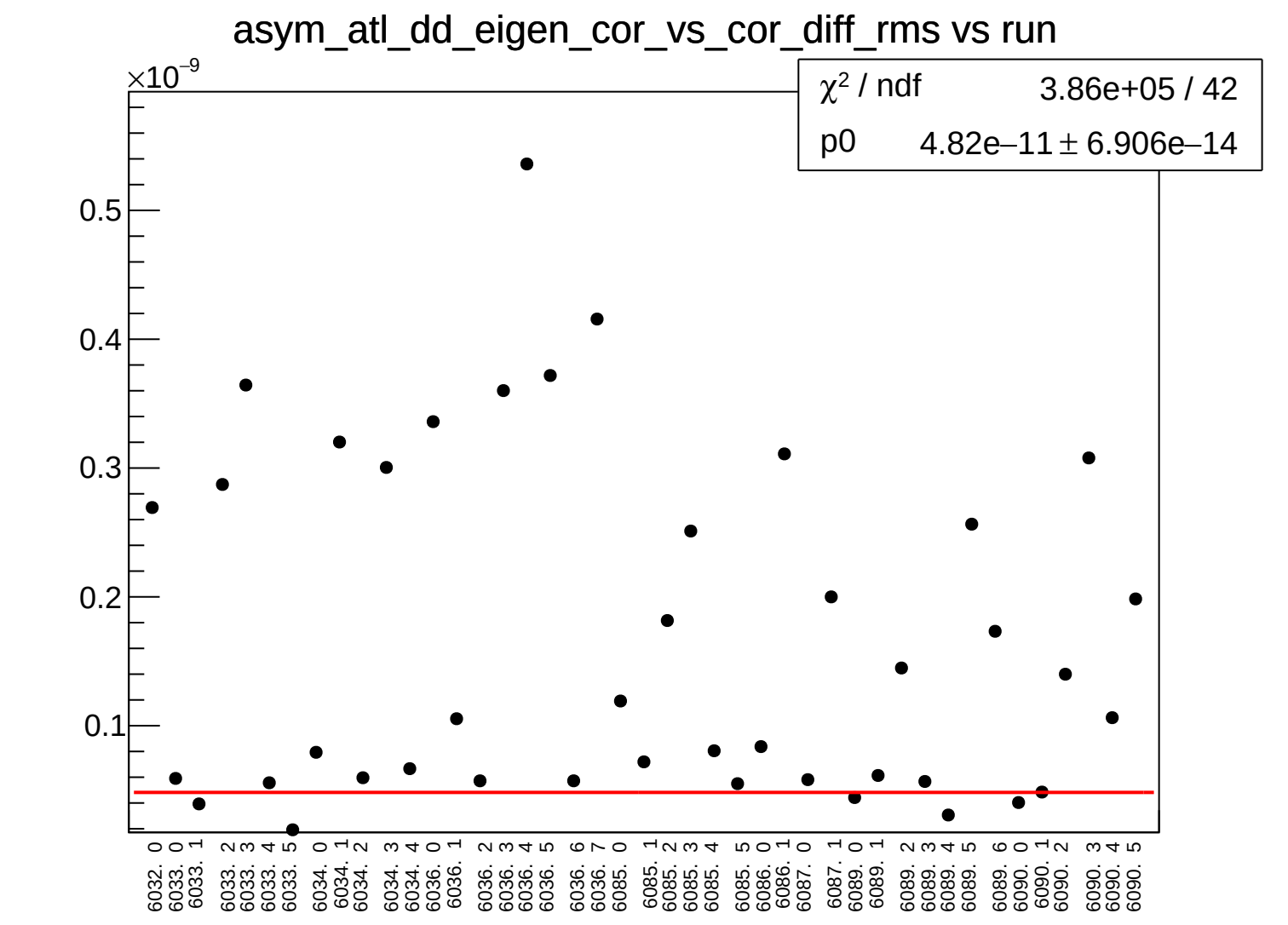

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.654e+04 / 42
p0 102.7 ± 0.1109
160
150
140
130
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

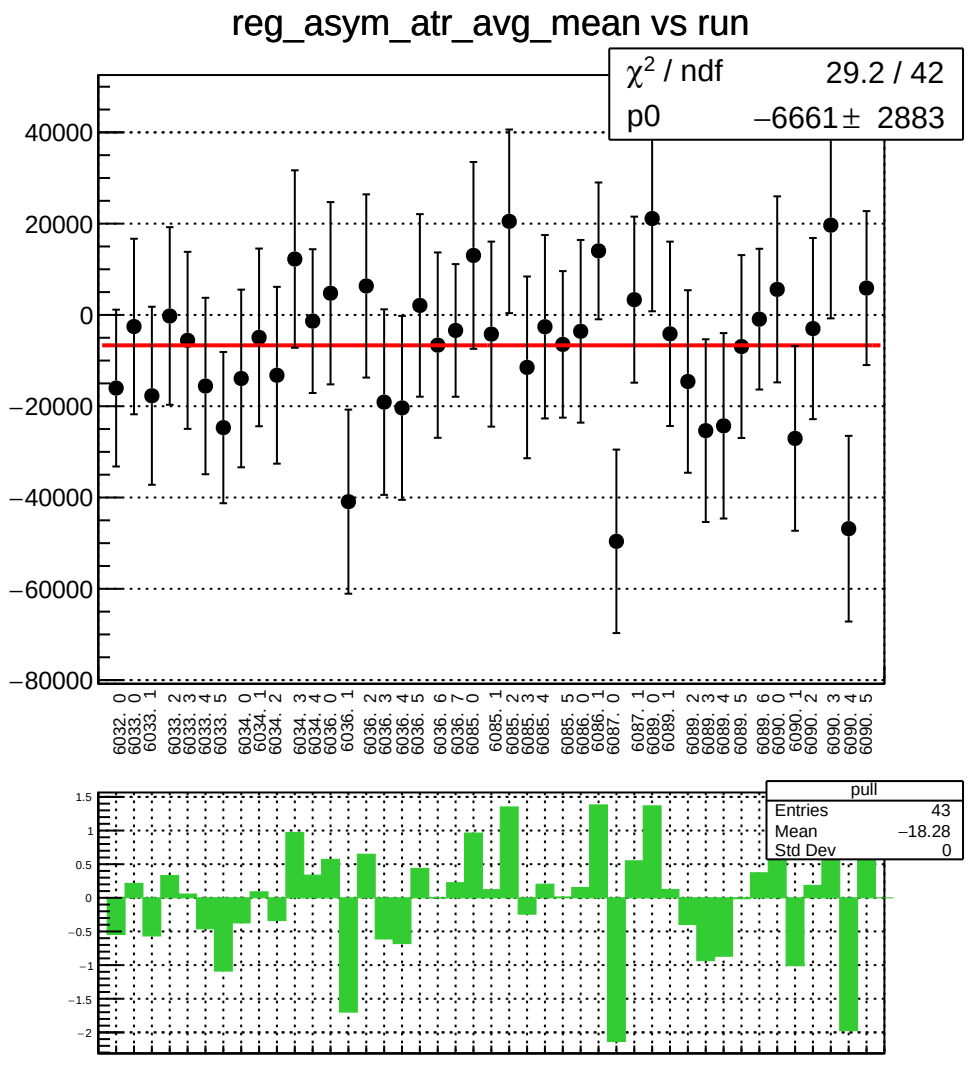

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.6 / 42
p0 0.3641 ± 0.1569
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −127.6
Std Dev 0
pull1D
Entries 43
Mean 0.01108
Std Dev 0.9595

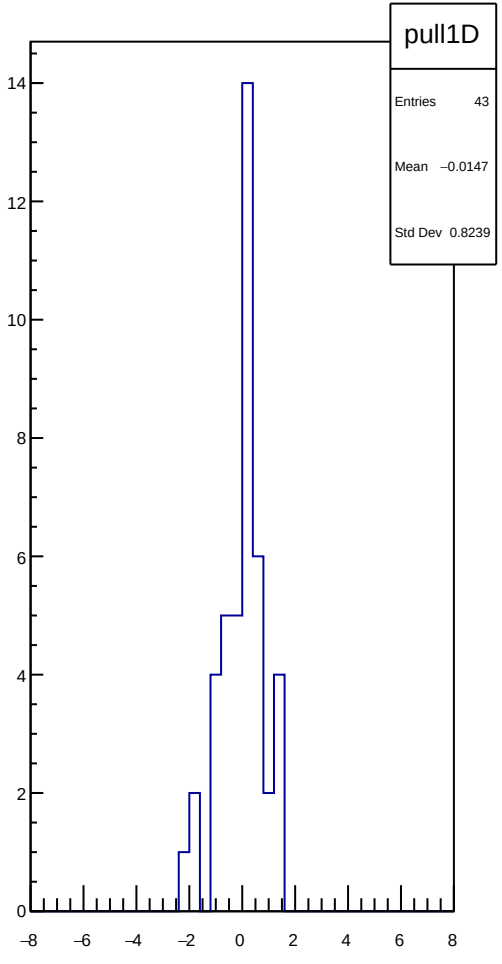

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.654e+04 / 42
p0 102.7 ± 0.1109
160
150
140
130
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

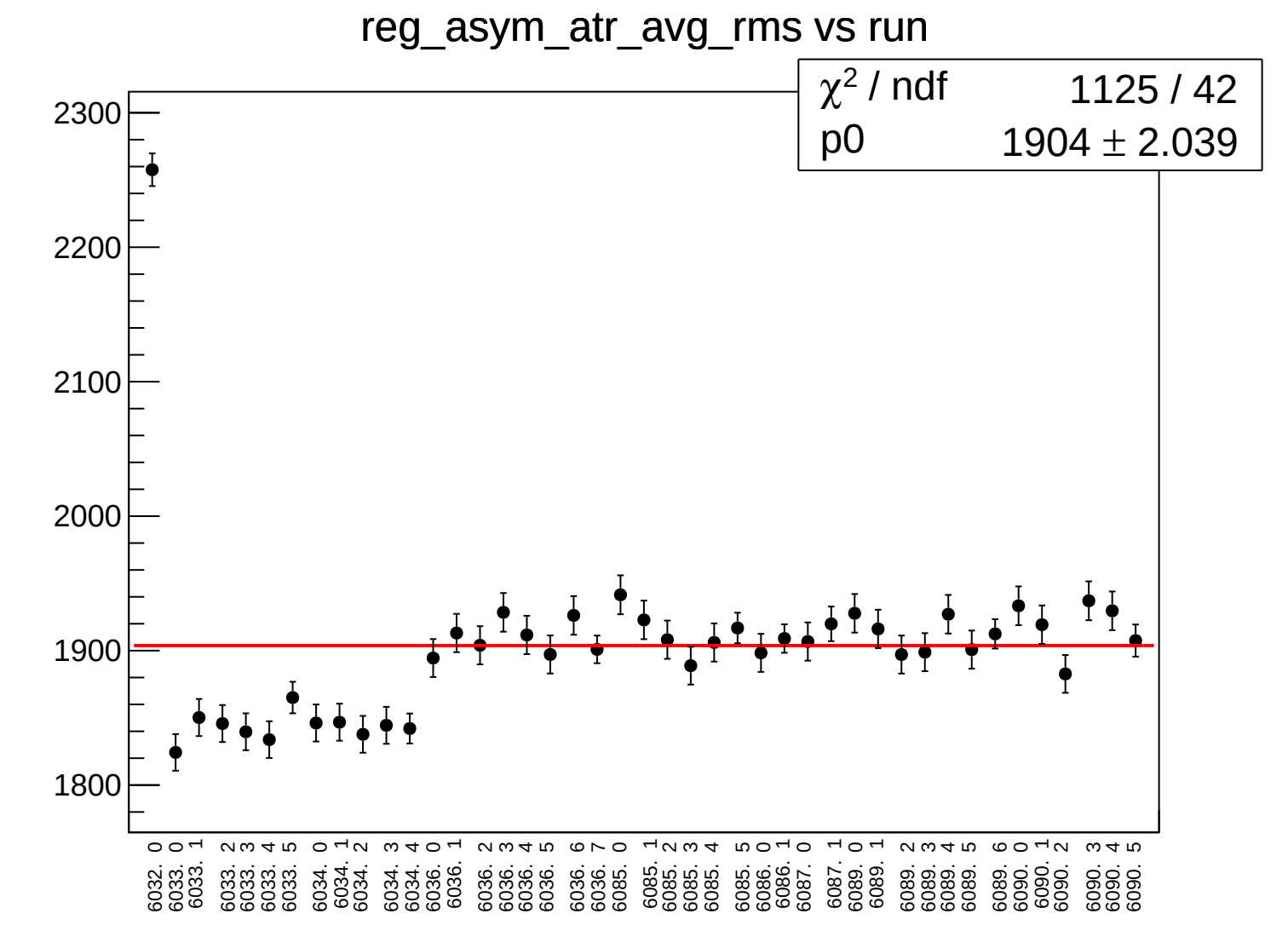

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.18 / 42
p0 −6.467e−14 ± 9.767e−14
pull
Entries 43
Mean 46.77
Std Dev 0

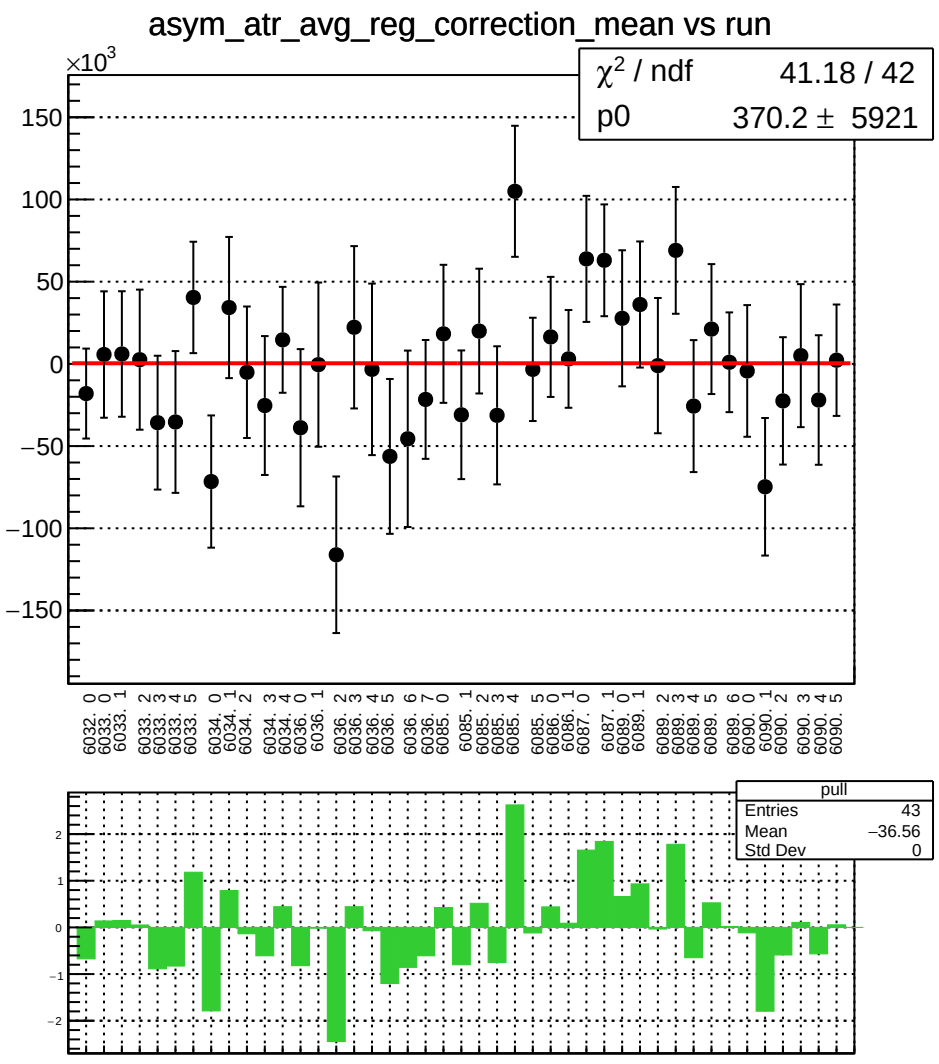

pull1D
Entries 43
Mean 0.1043
Std Dev 0.8984

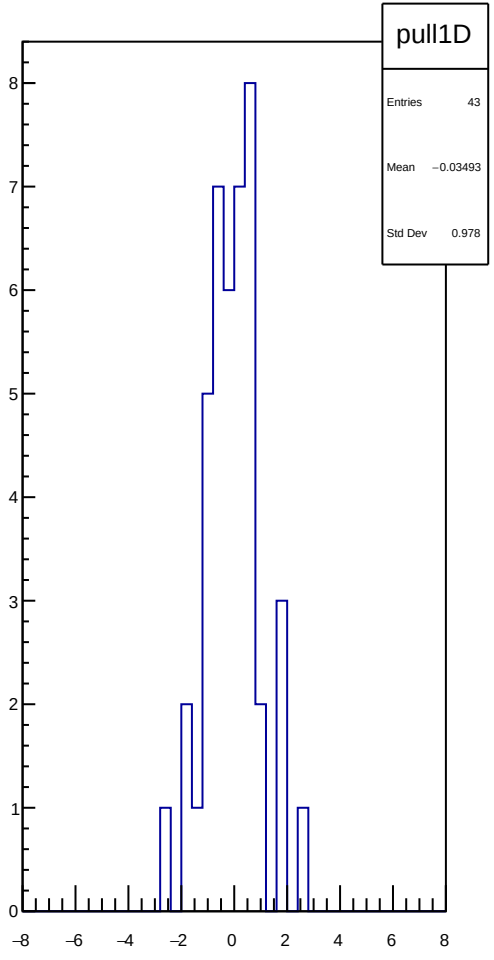

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.86e+05 / 42
p0 4.82e−11 ± 6.906e−14
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

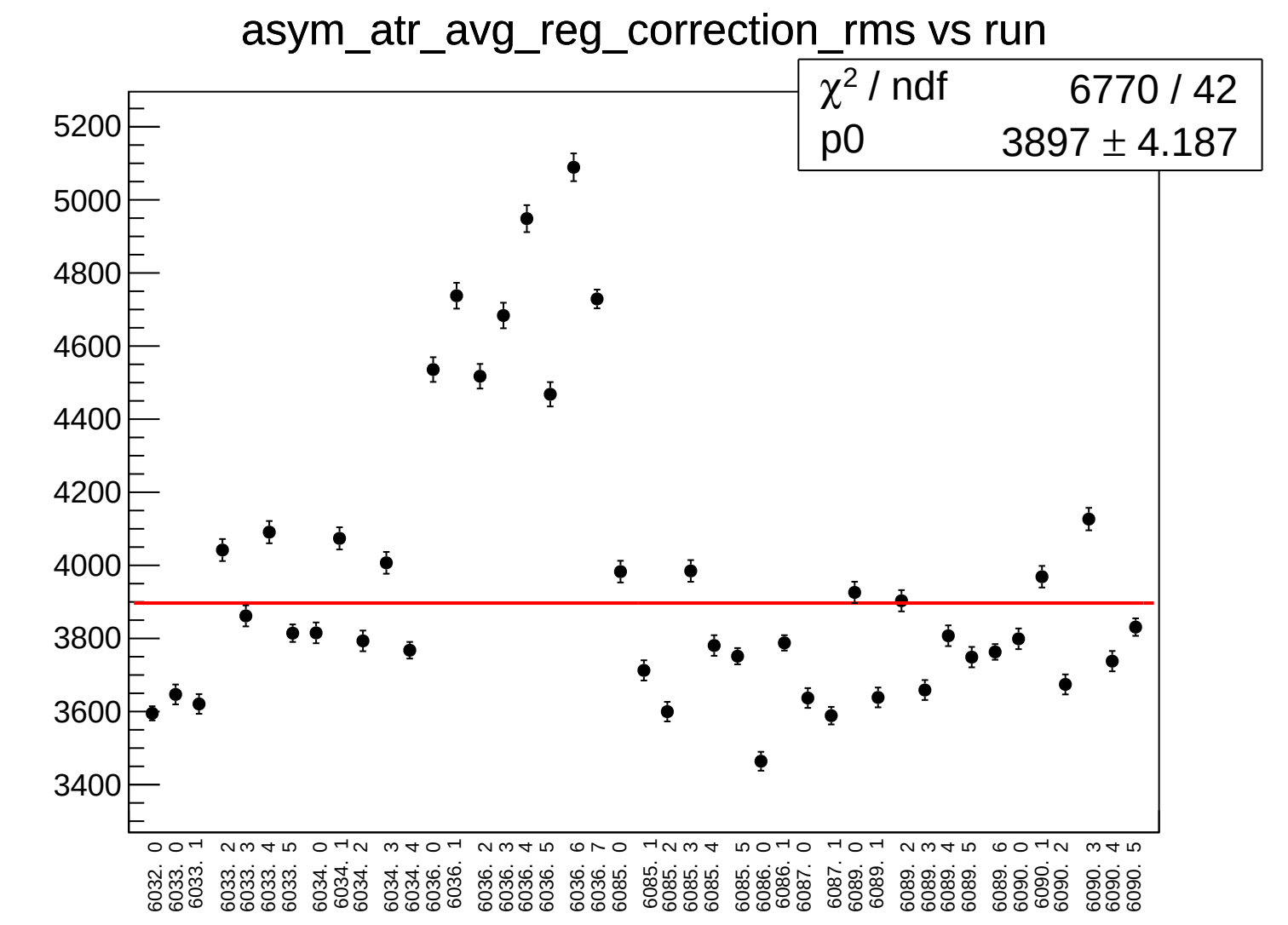

reg_asym_atr_avg_mean vs run
χ² / ndf 29.2 / 42
p0 −6661 ± 2883
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

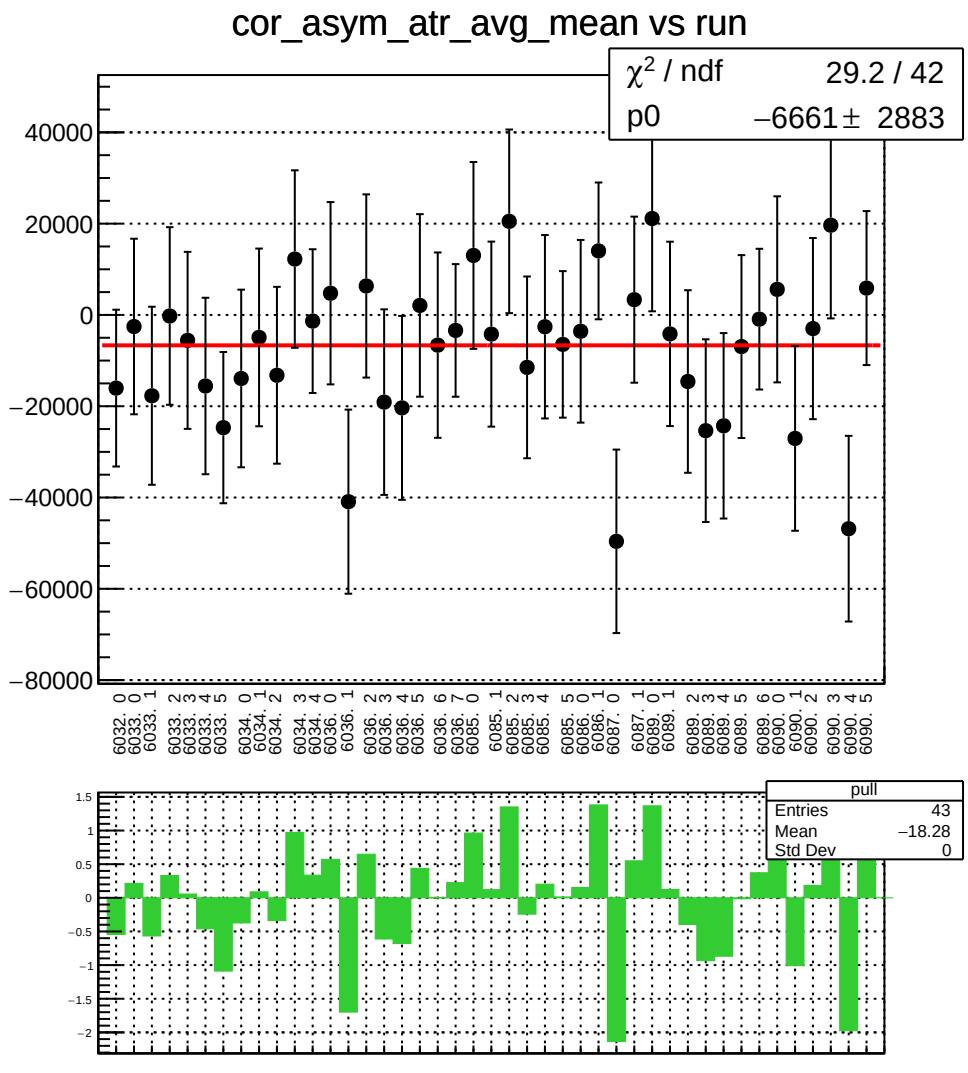

pull1D
Entries 43
Mean −0.0147
Std Dev 0.8239
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

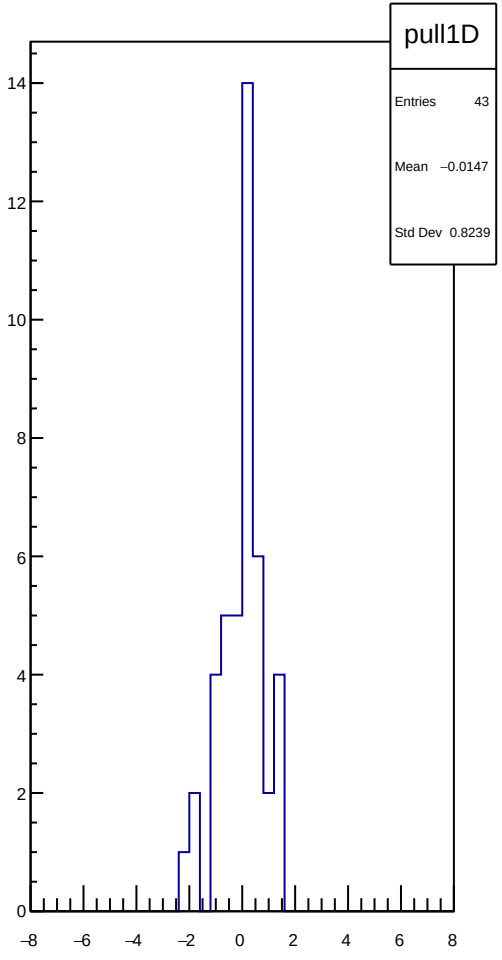

reg_asym_atr_avg_rms vs run
χ² / ndf 1125 / 42
p0 1904 ± 2.039
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

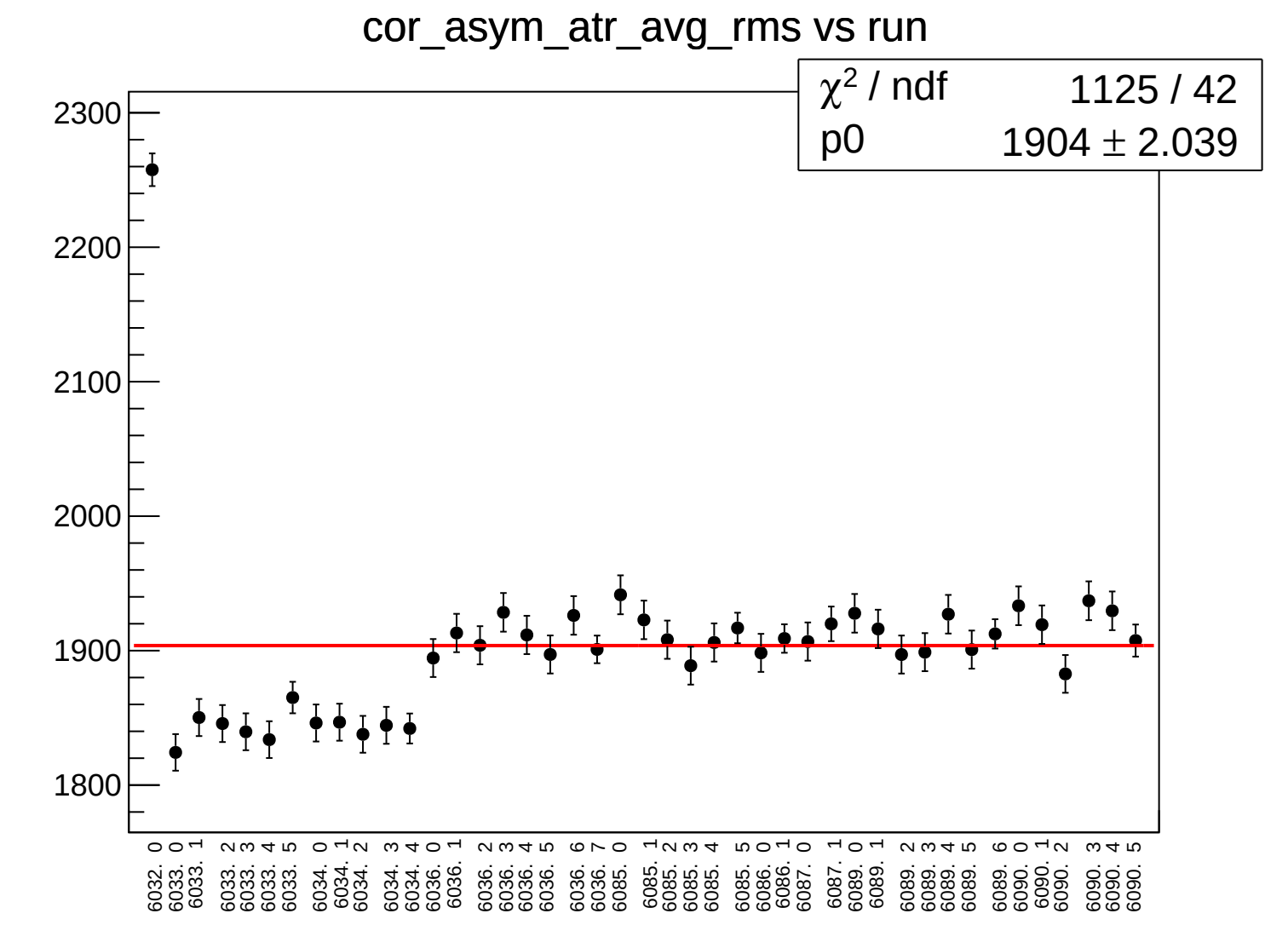

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.18 / 42
p0 370.2 ± 5921
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.56
Std Dev 0
2
1
0
−1
−2

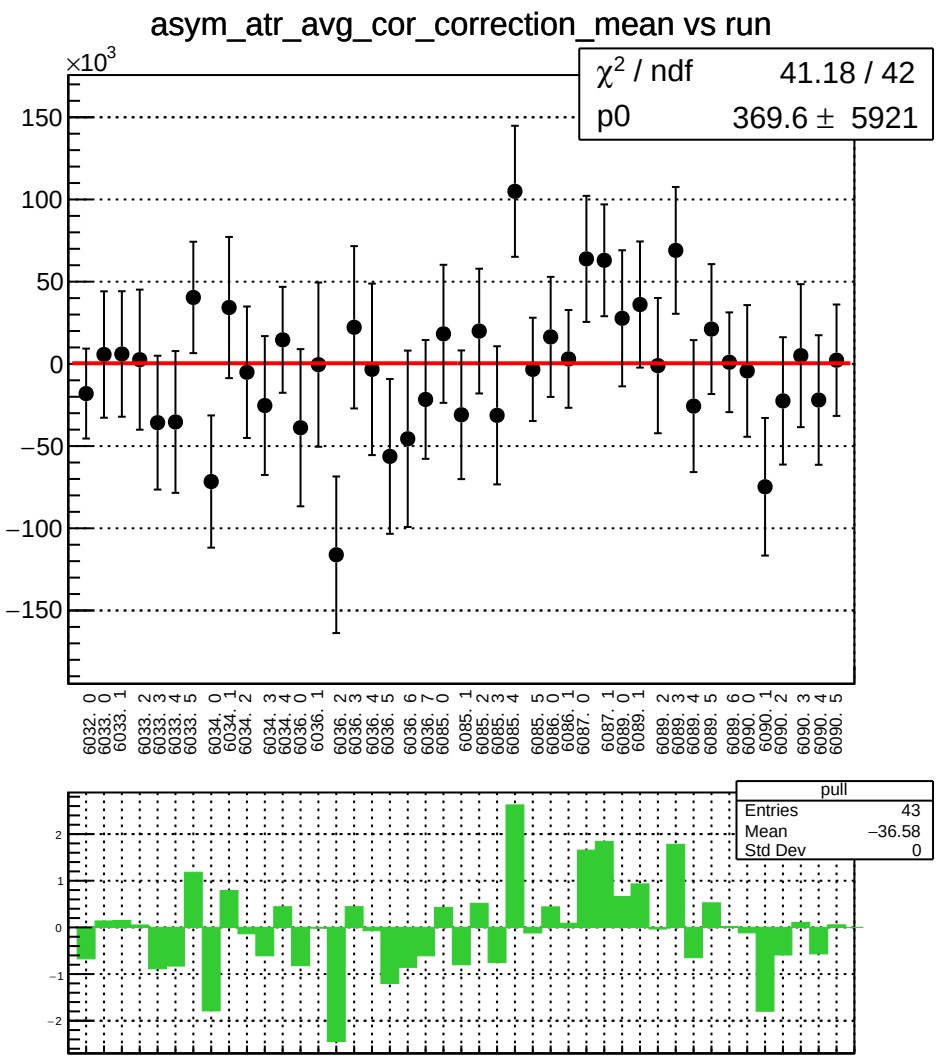

pull1D
Entries 43
Mean −0.03493
Std Dev 0.978
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

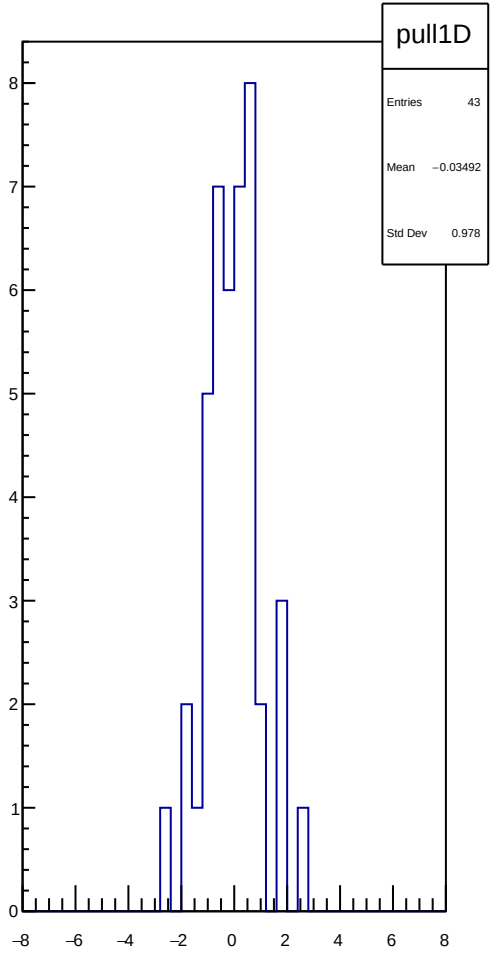

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 6770 / 42
p0 3897 ± 4.187
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

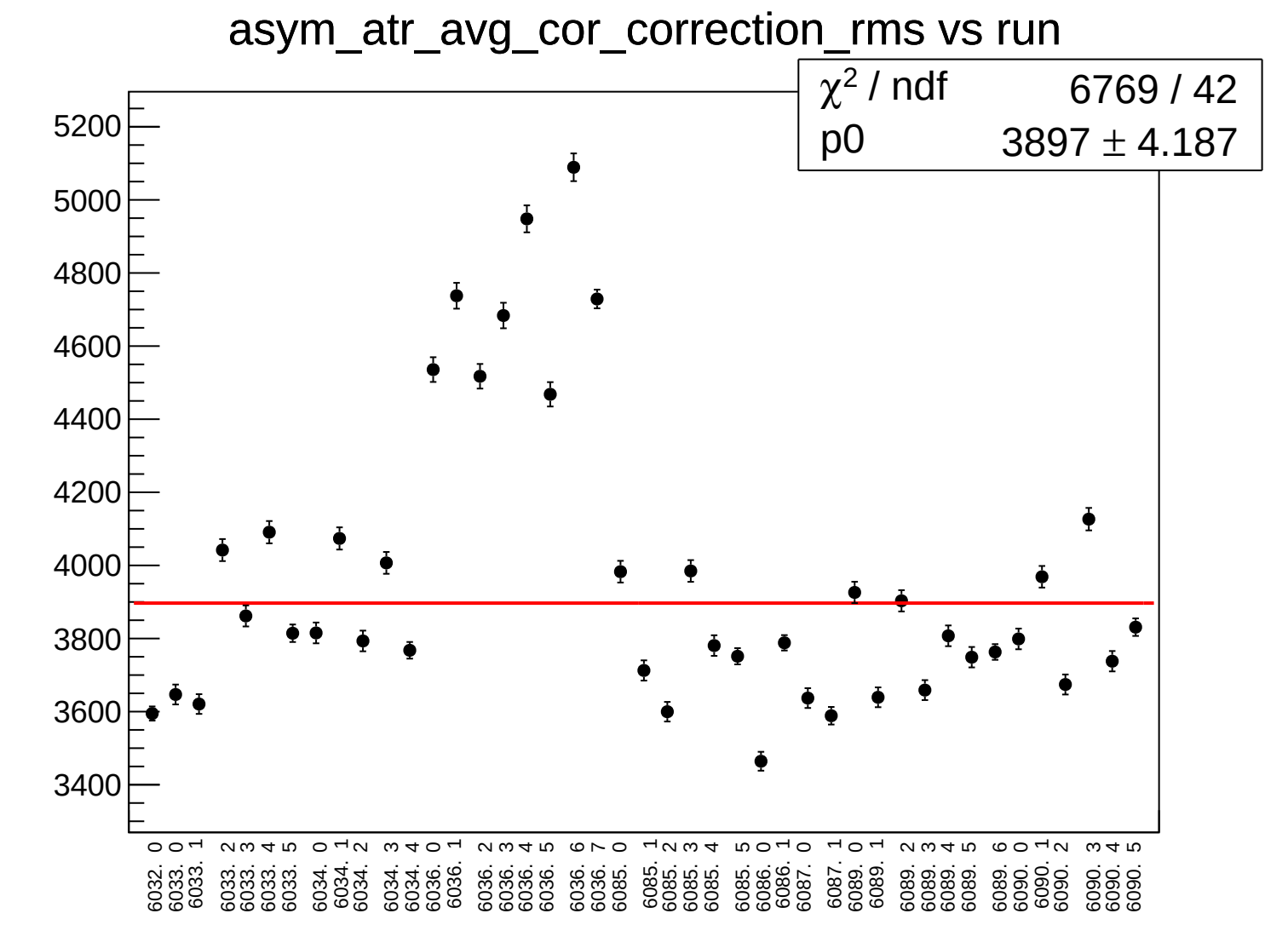

cor_asym_atr_avg_mean vs run
χ² / ndf 29.2 / 42
p0 −6661 ± 2883
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

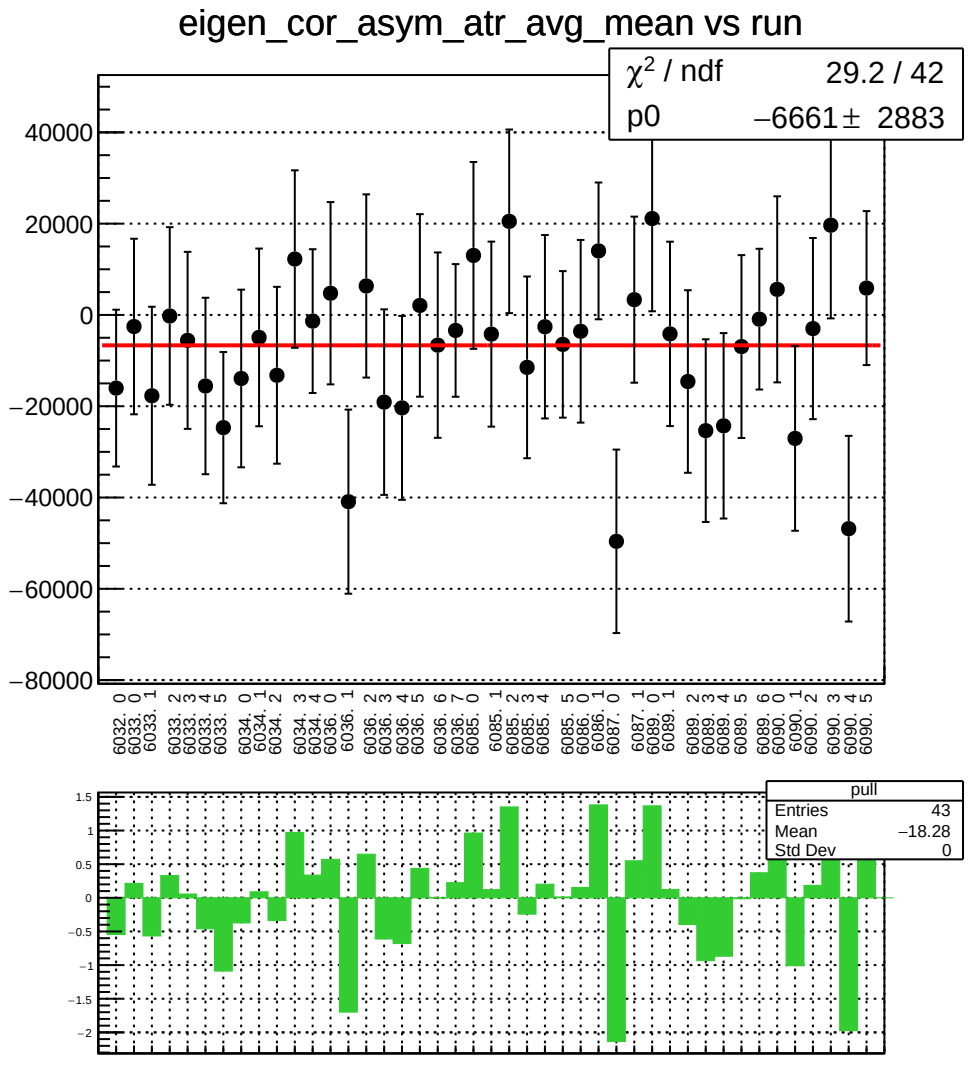

pull1D
Entries 43
Mean −0.0147
Std Dev 0.8239
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

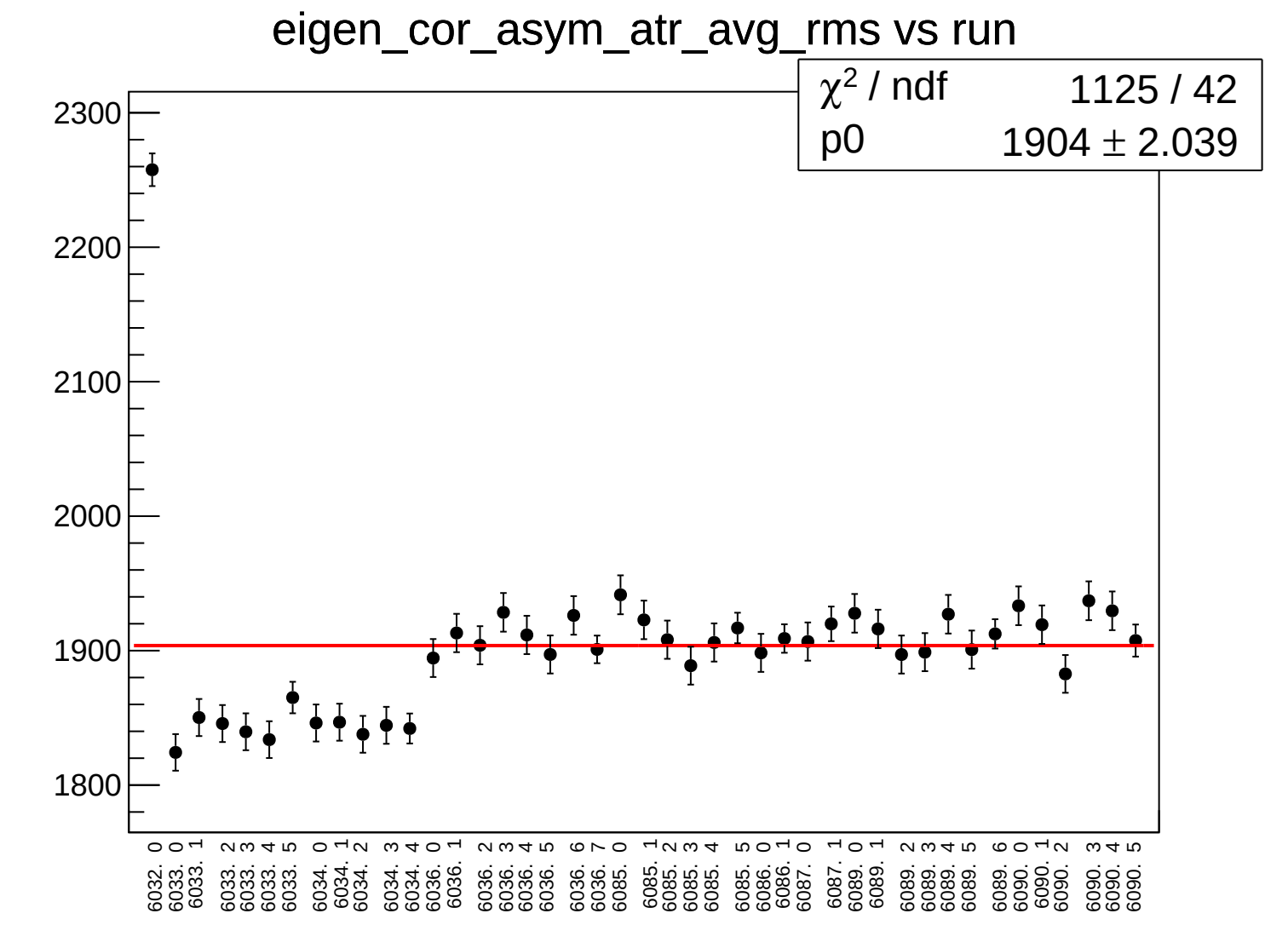

cor_asym_atr_avg_rms vs run
χ² / ndf 1125 / 42
p0 1904 ± 2.039
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

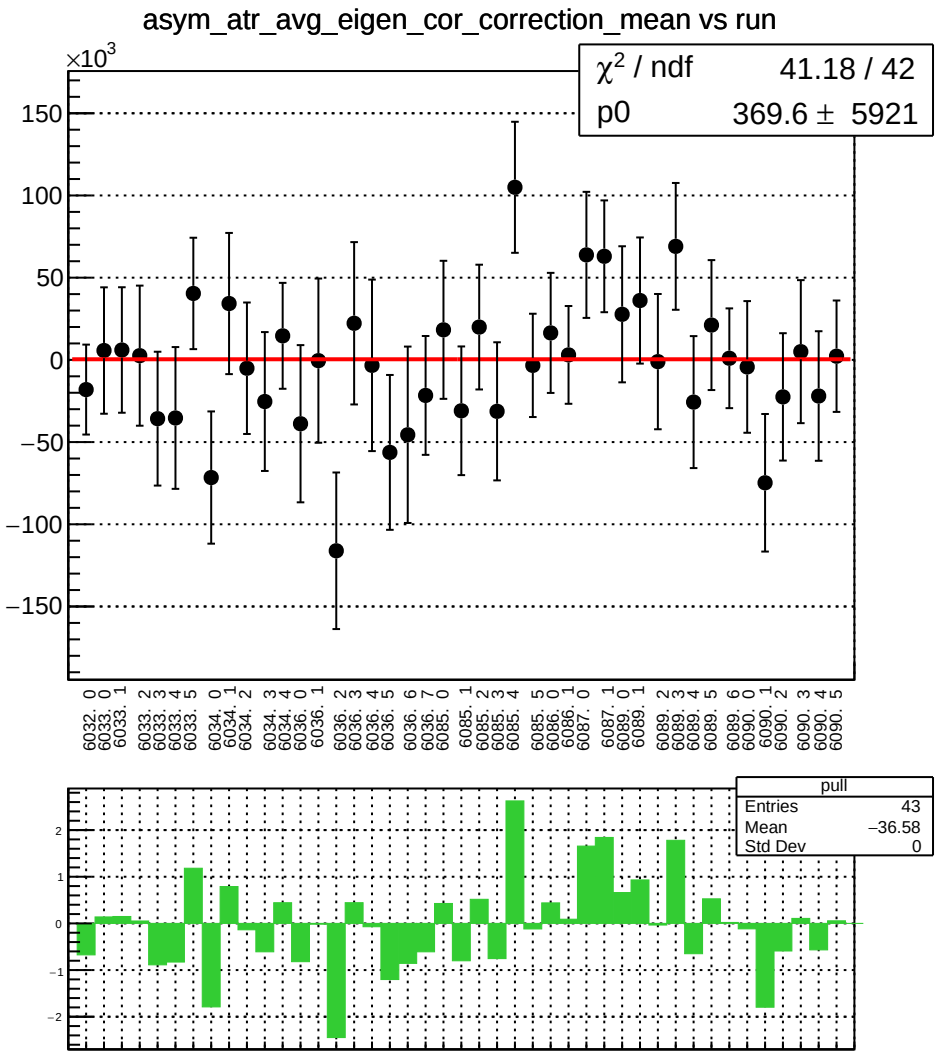

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.18 / 42
p0 369.6 ± 5921
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.58
Std Dev 0
2
1
0
−1
−2

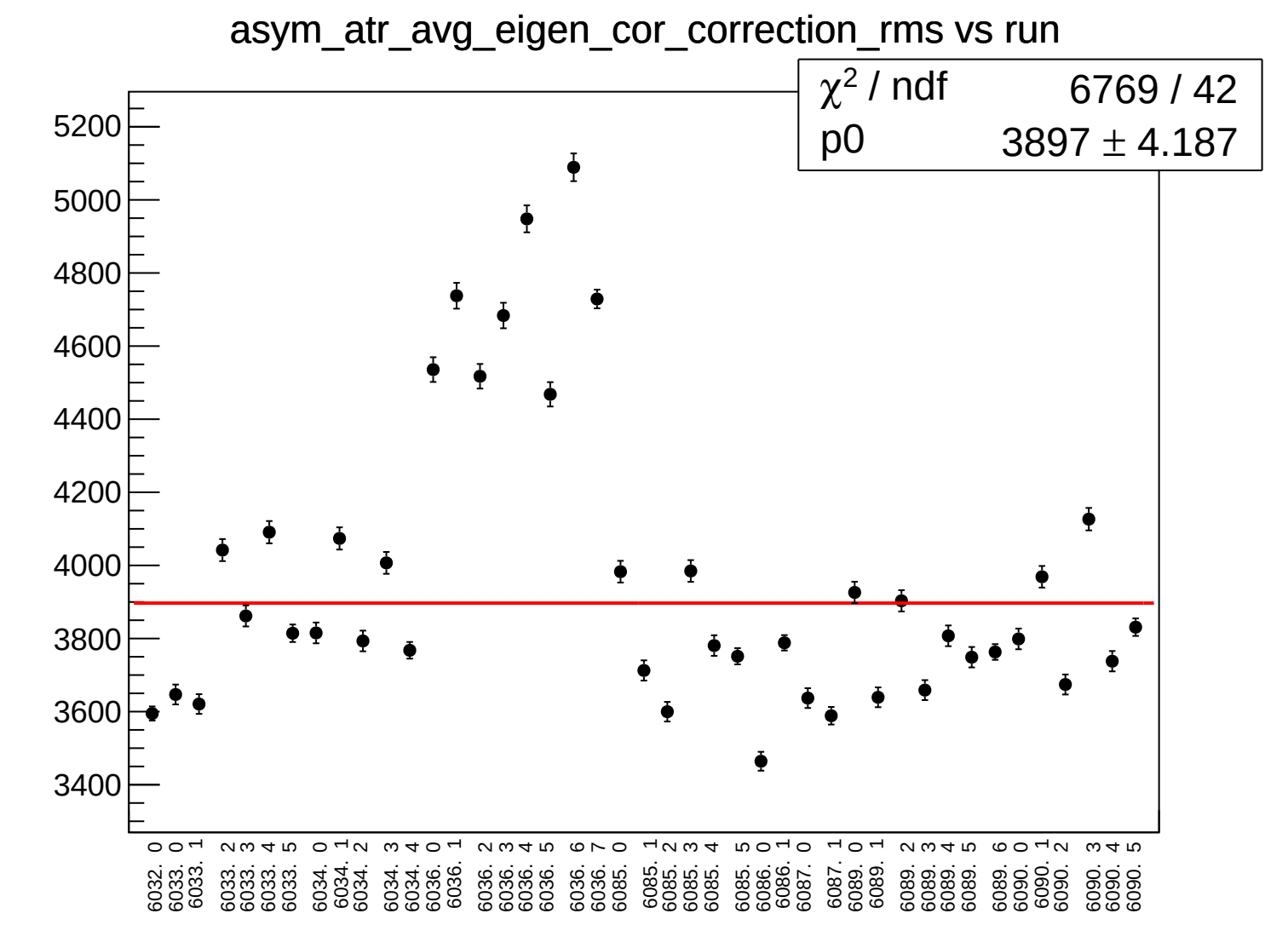

pull1D
Entries 43
Mean −0.03492
Std Dev 0.978
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

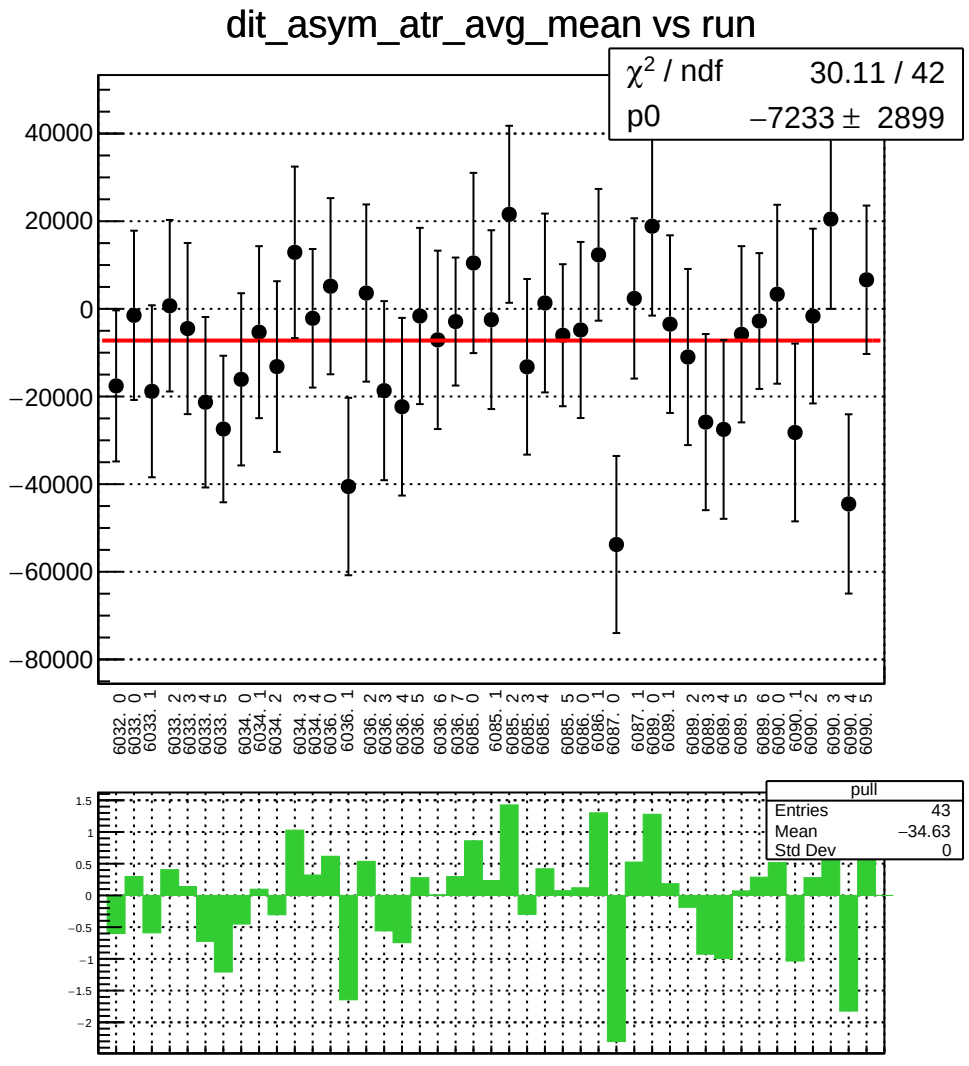

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 6769 / 42
p0 3897 ± 4.187
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

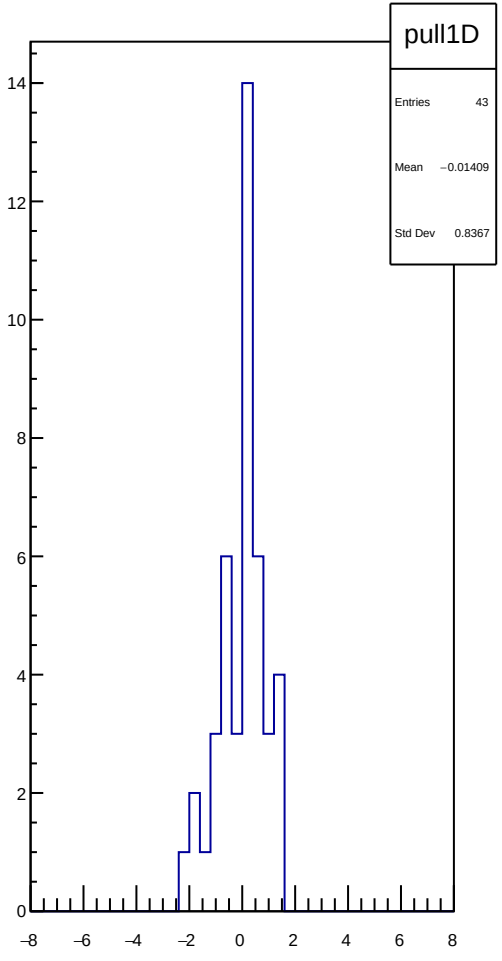

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 29.2 / 42
p0 −6661 ± 2883
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0147
Std Dev 0.8239
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

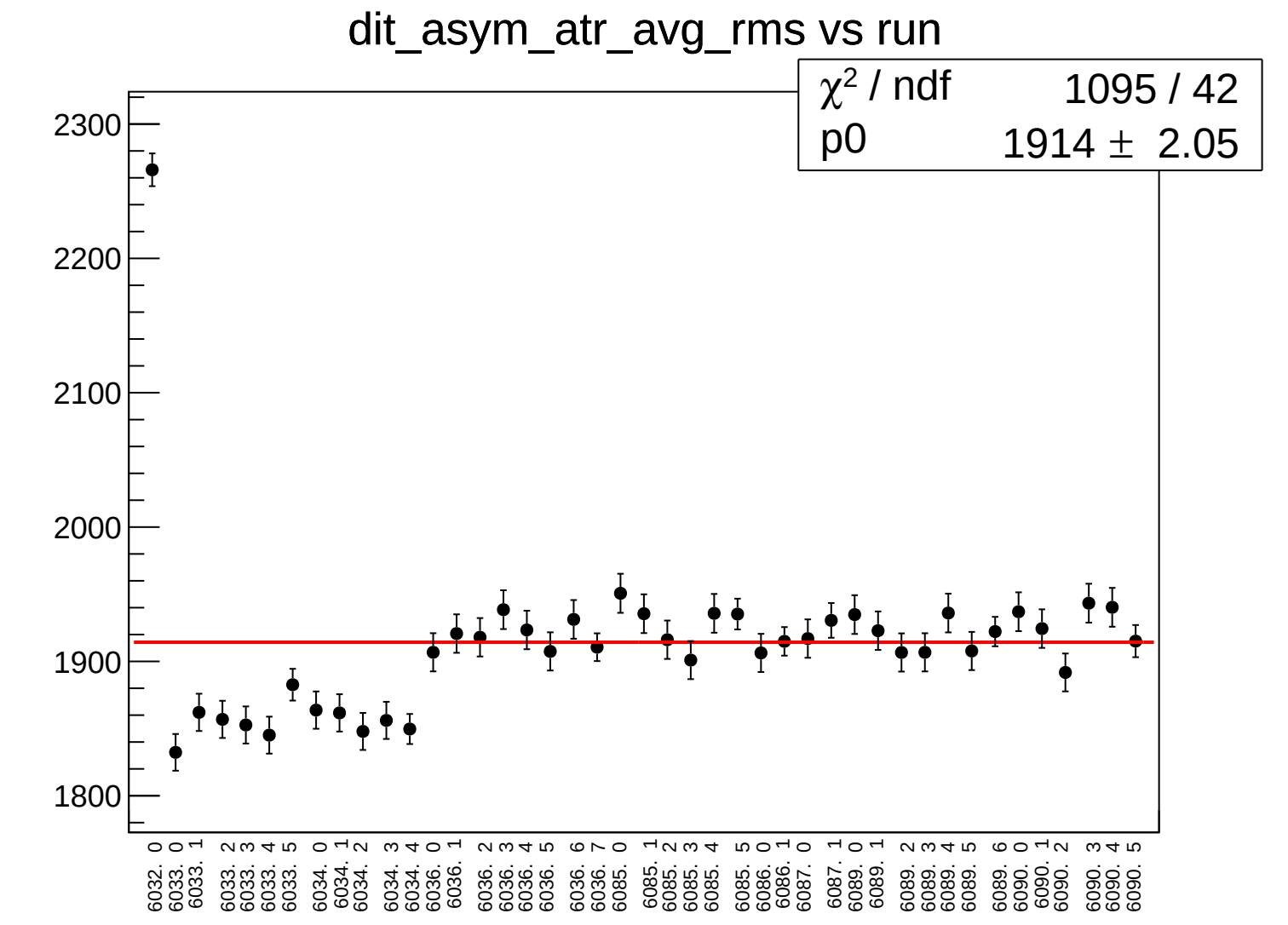

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 1125 / 42
p0 1904 ± 2.039
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

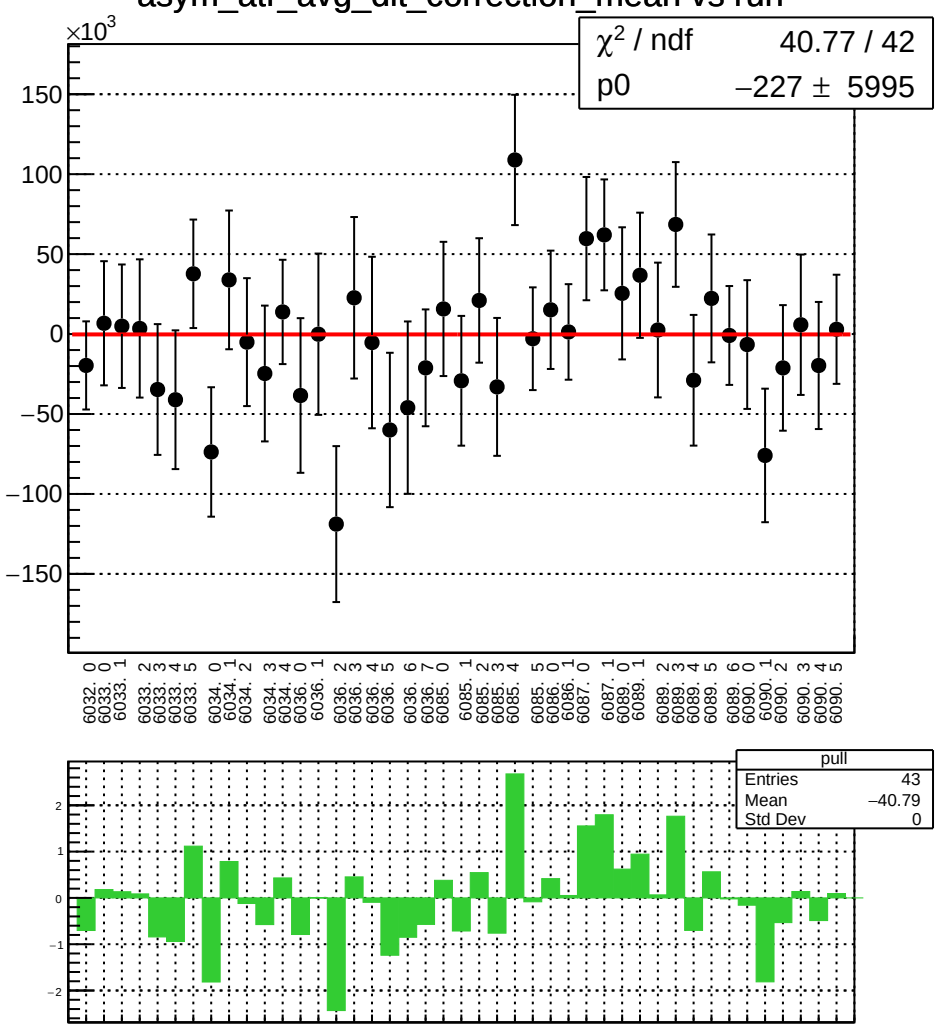

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.18 / 42
p0 369.6 ± 5921
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.58
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03492
Std Dev 0.978
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

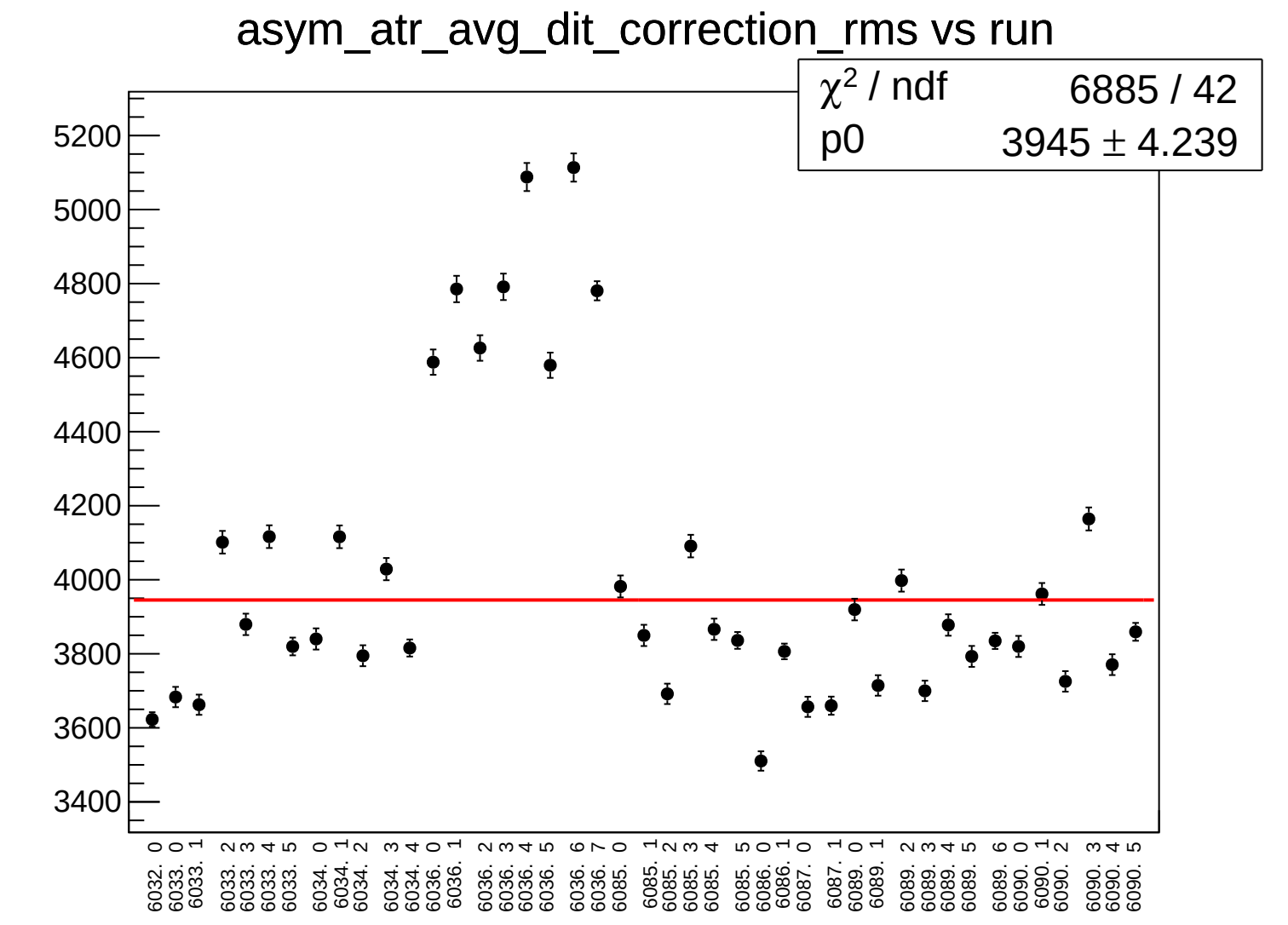

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 6769 / 42
p0 3897 ± 4.187
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

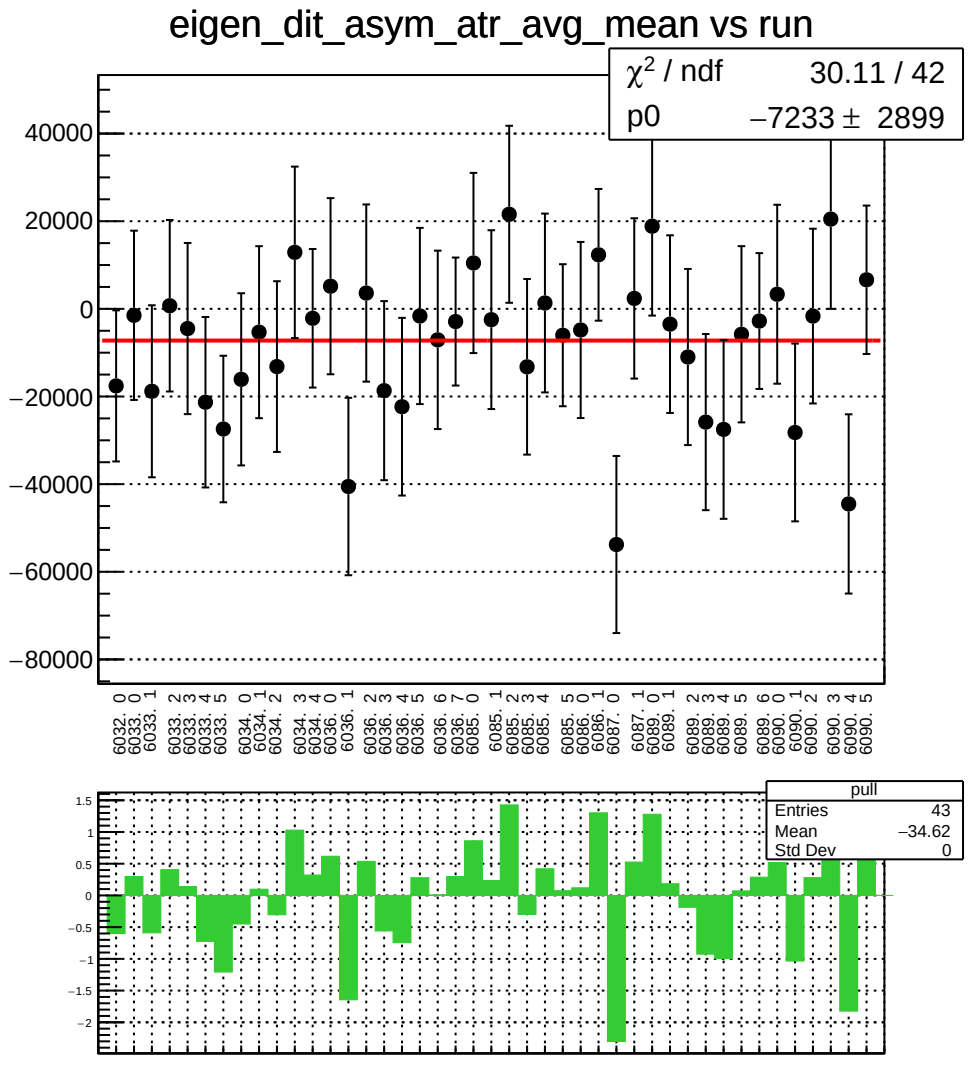

dit_asym_atr_avg_mean vs run
χ² / ndf 30.11 / 42
p0 −7233 ± 2899
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −34.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

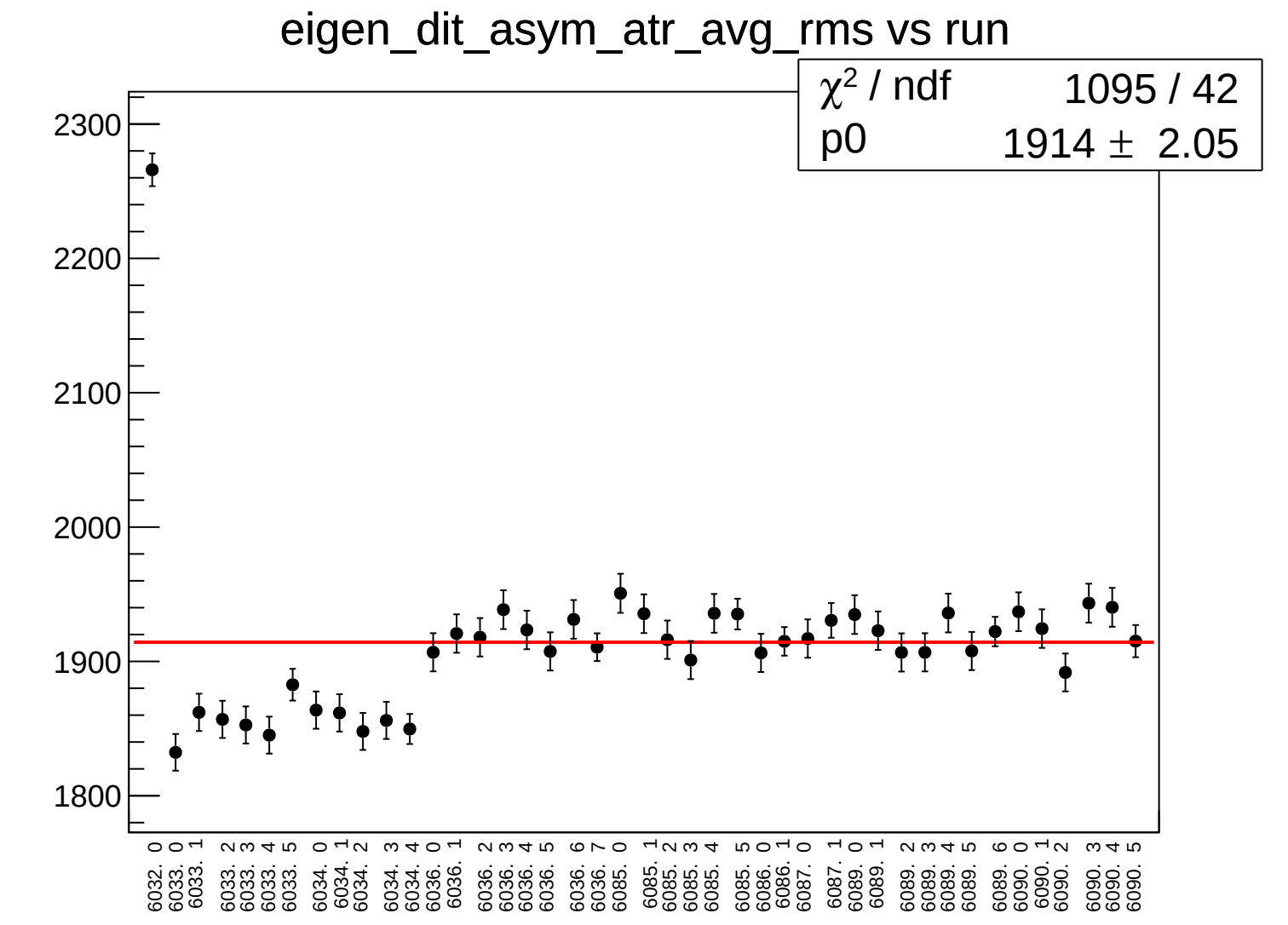

pull1D
Entries 43
Mean −0.01409
Std Dev 0.8367
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

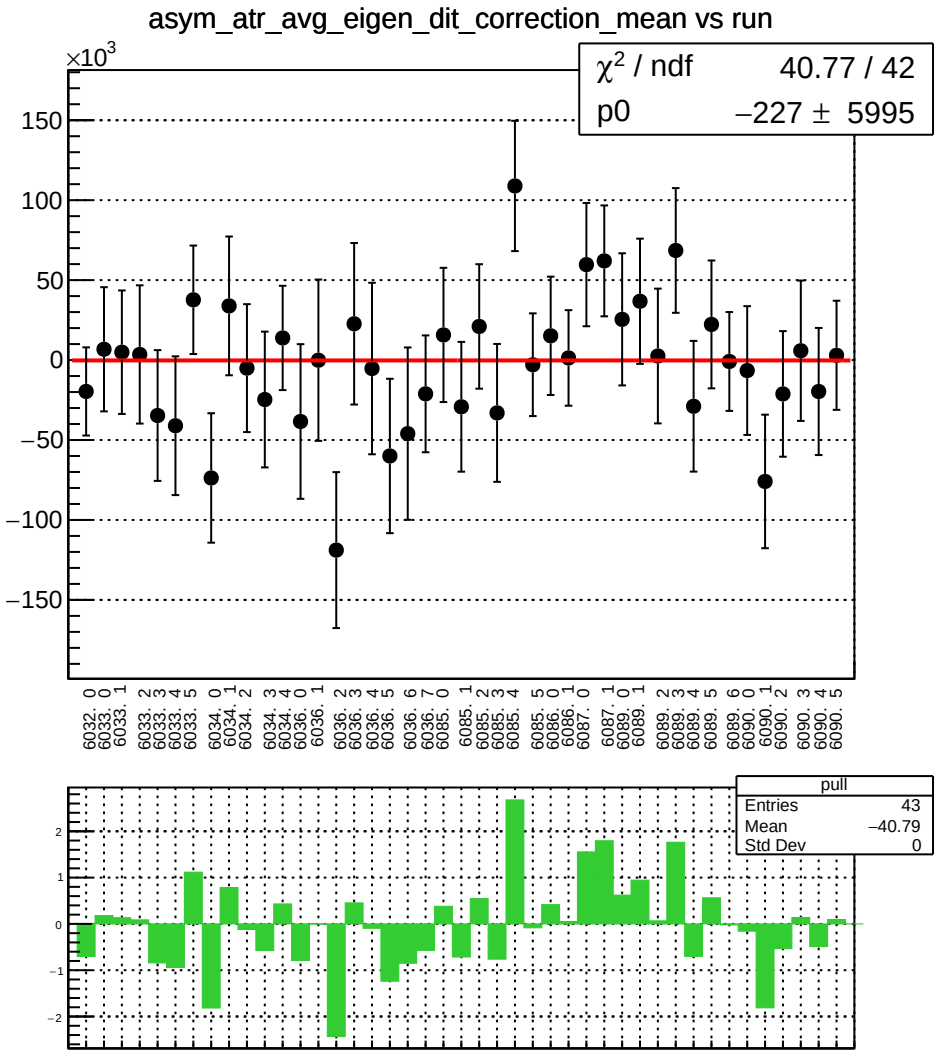

dit_asym_atr_avg_rms vs run
χ² / ndf 1095 / 42
p0 1914 ± 2.05
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

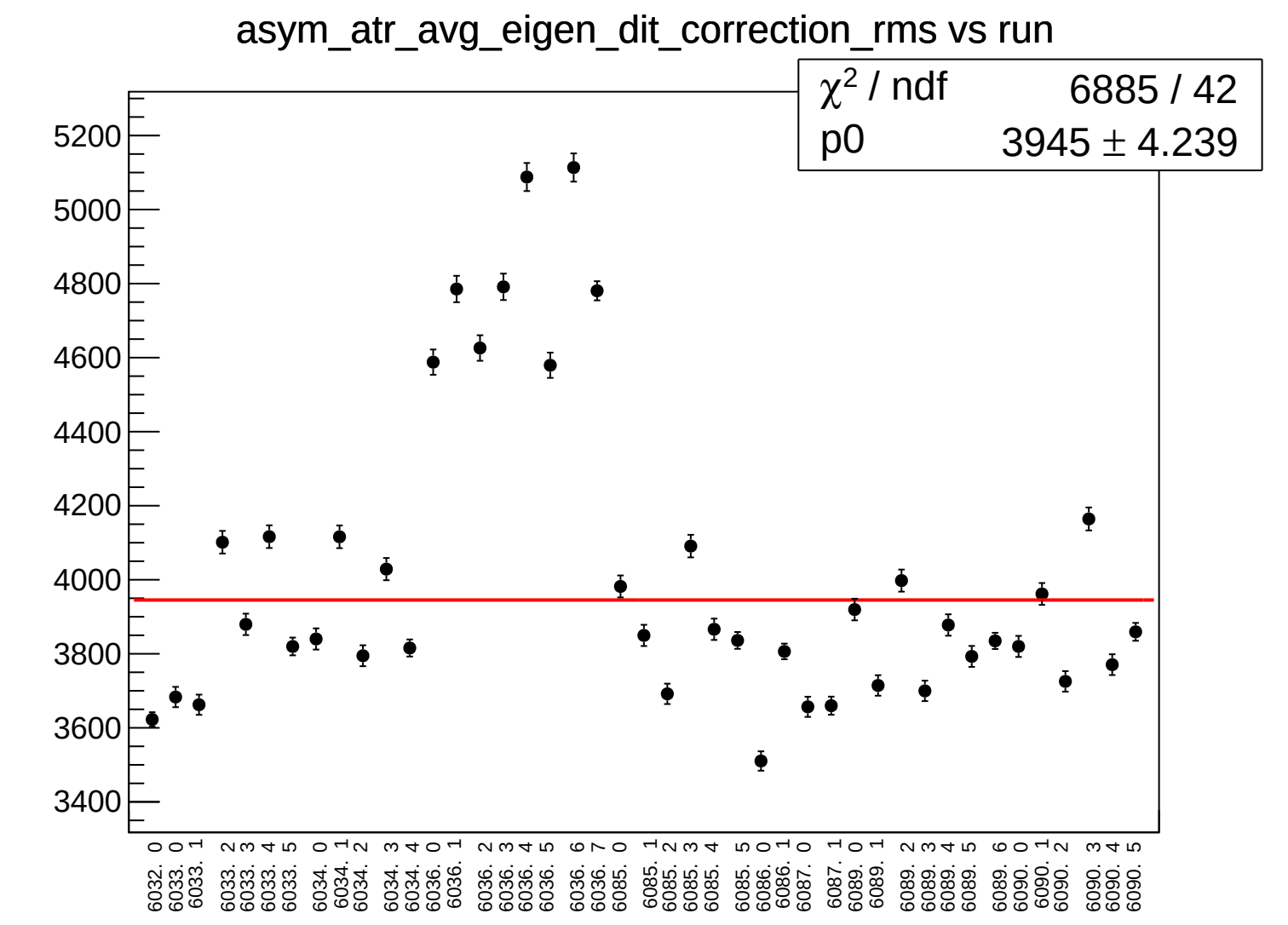

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 40.77 / 42
p0 −227 ± 5995
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03366
Std Dev 0.9731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

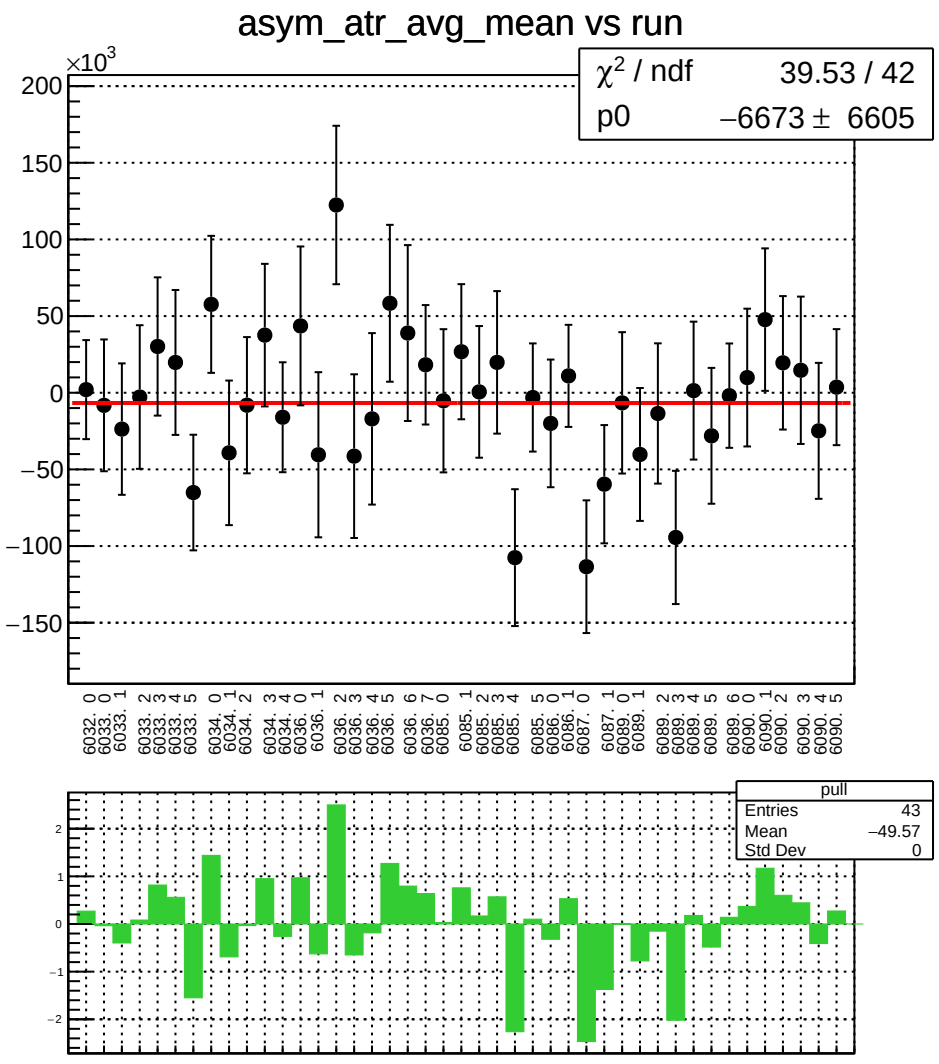

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 6885 / 42
p0 3945 ± 4.239
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

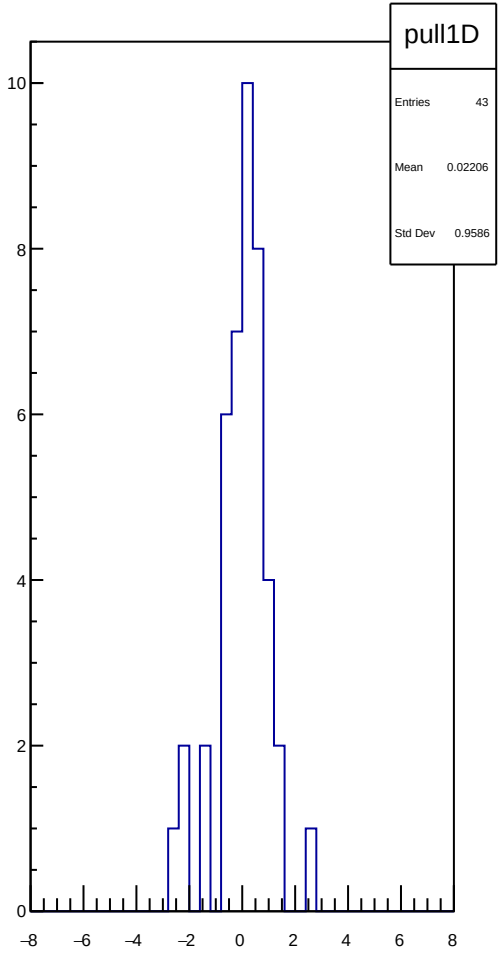

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 30.11 / 42
p0 −7233 ± 2899
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −34.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01409
Std Dev 0.8367
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

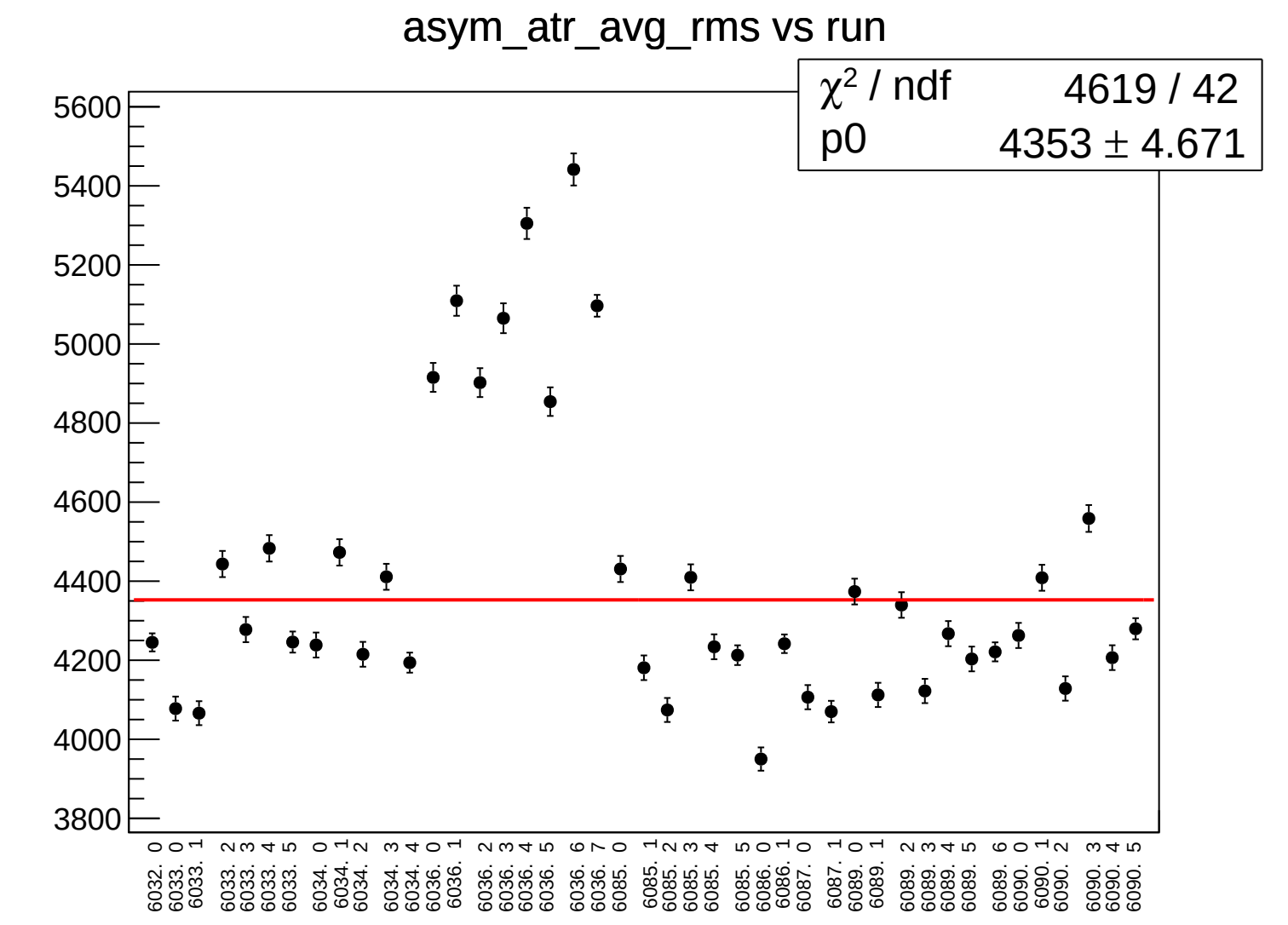

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 1095 / 42
p0 1914 ± 2.05
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

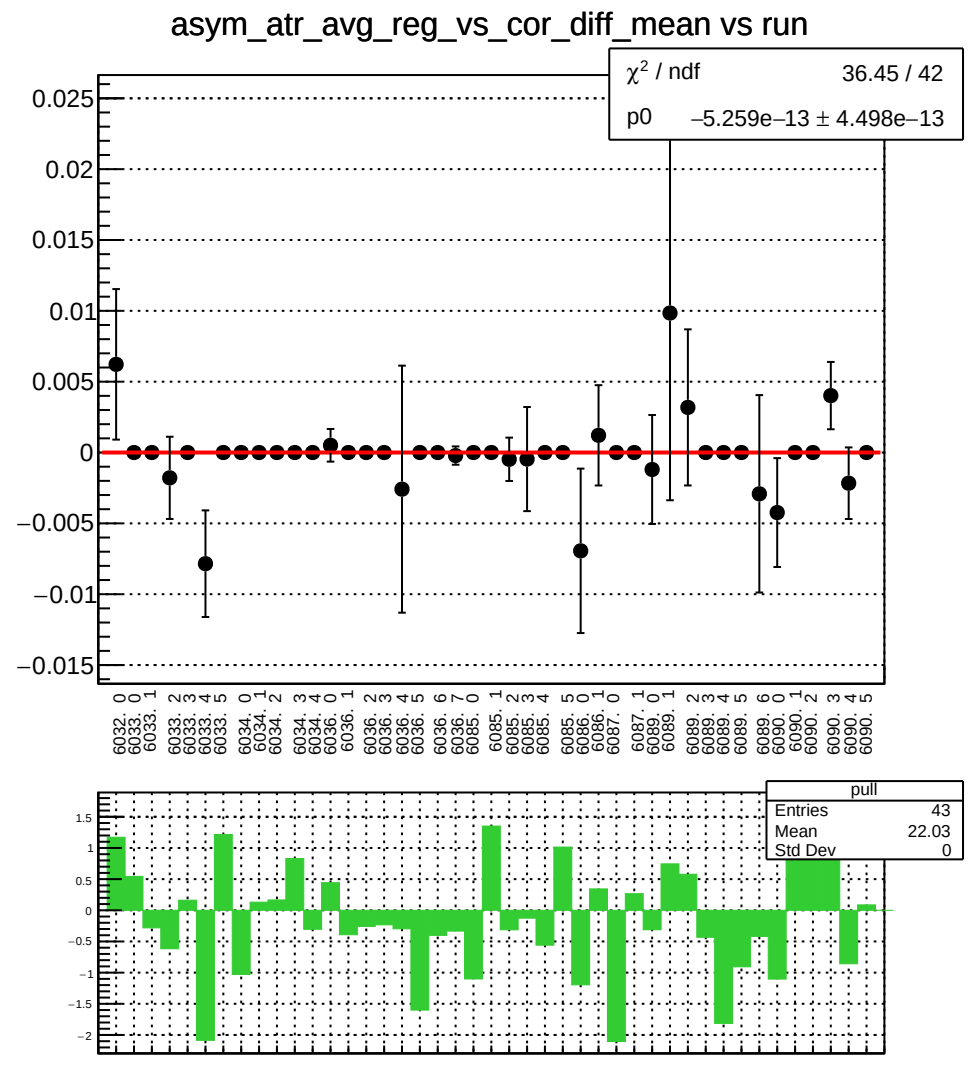

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 40.77 / 42
p0 −227 ± 5995
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03366
Std Dev 0.9731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

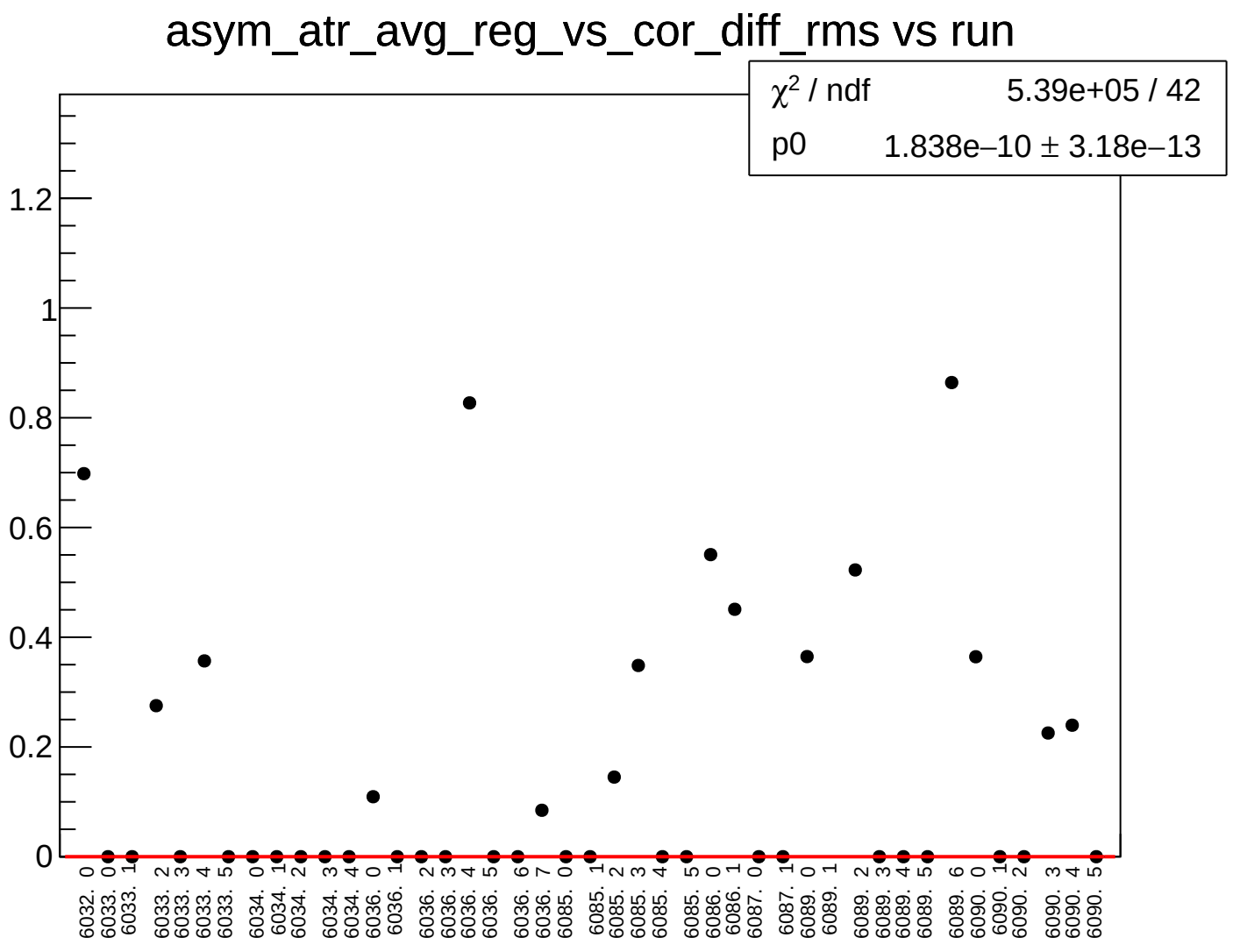

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 6885 / 42
p0 3945 ± 4.239
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

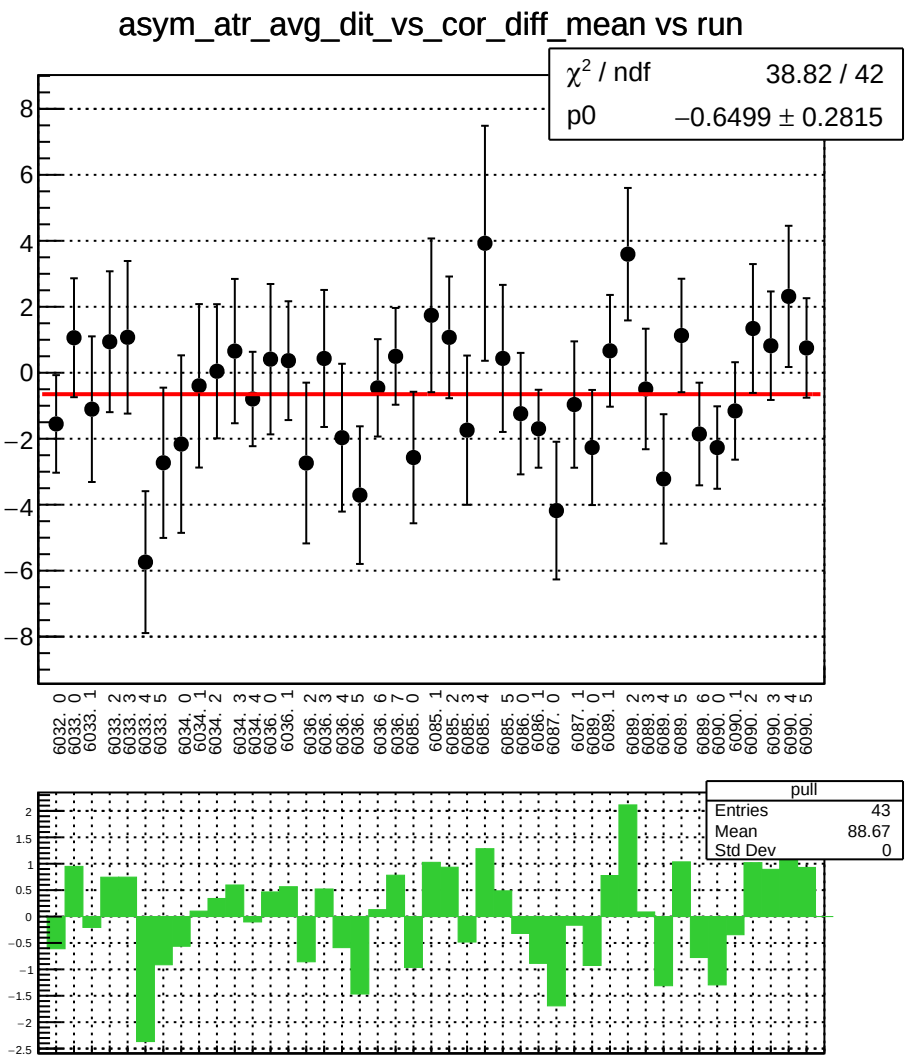

asym_atr_avg_mean vs run
×10^3
χ² / ndf 39.53 / 42
p0 −6673 ± 6605
200
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −49.57
Std Dev 0
2
1
0
−1
−2

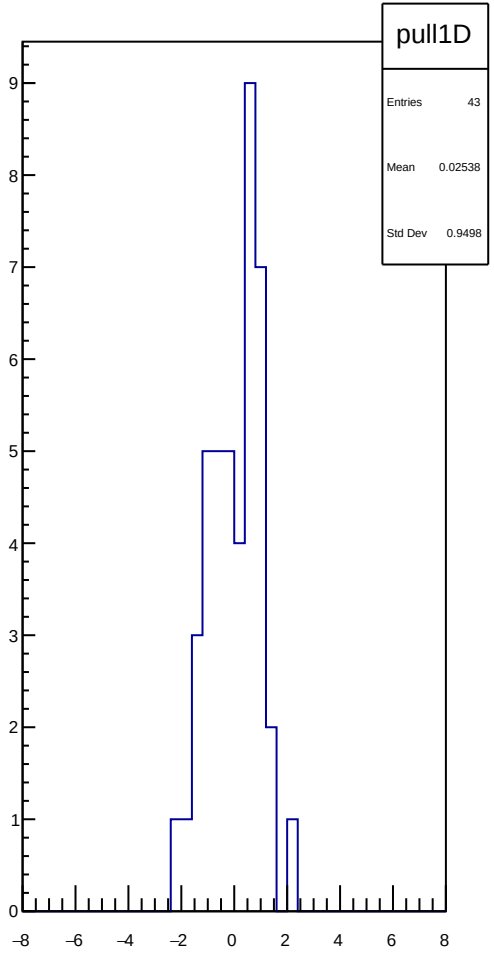

pull1D
Entries 43
Mean 0.02206
Std Dev 0.9586
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

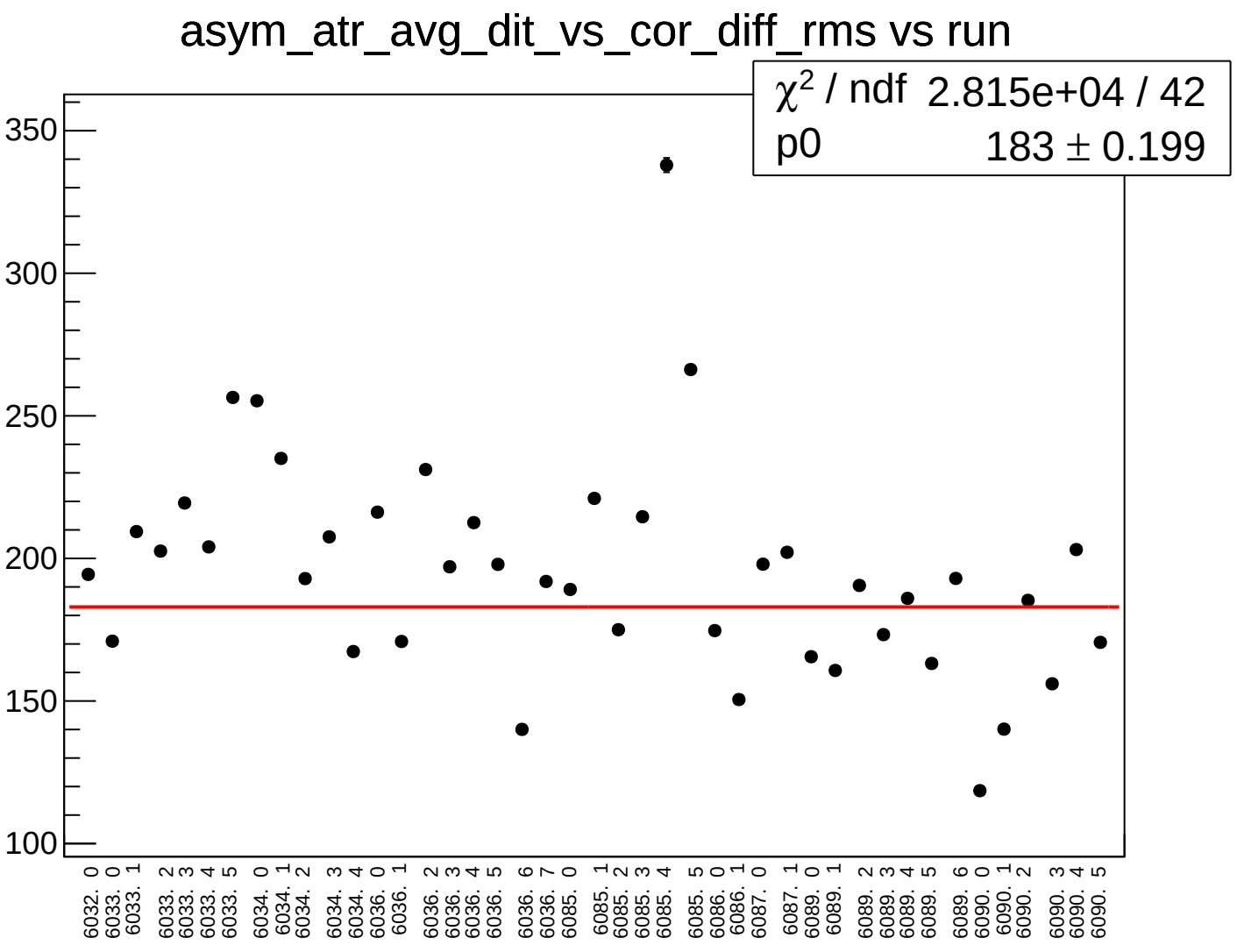

asym_atr_avg_rms vs run
χ² / ndf 4619 / 42
p0 4353 ± 4.671
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

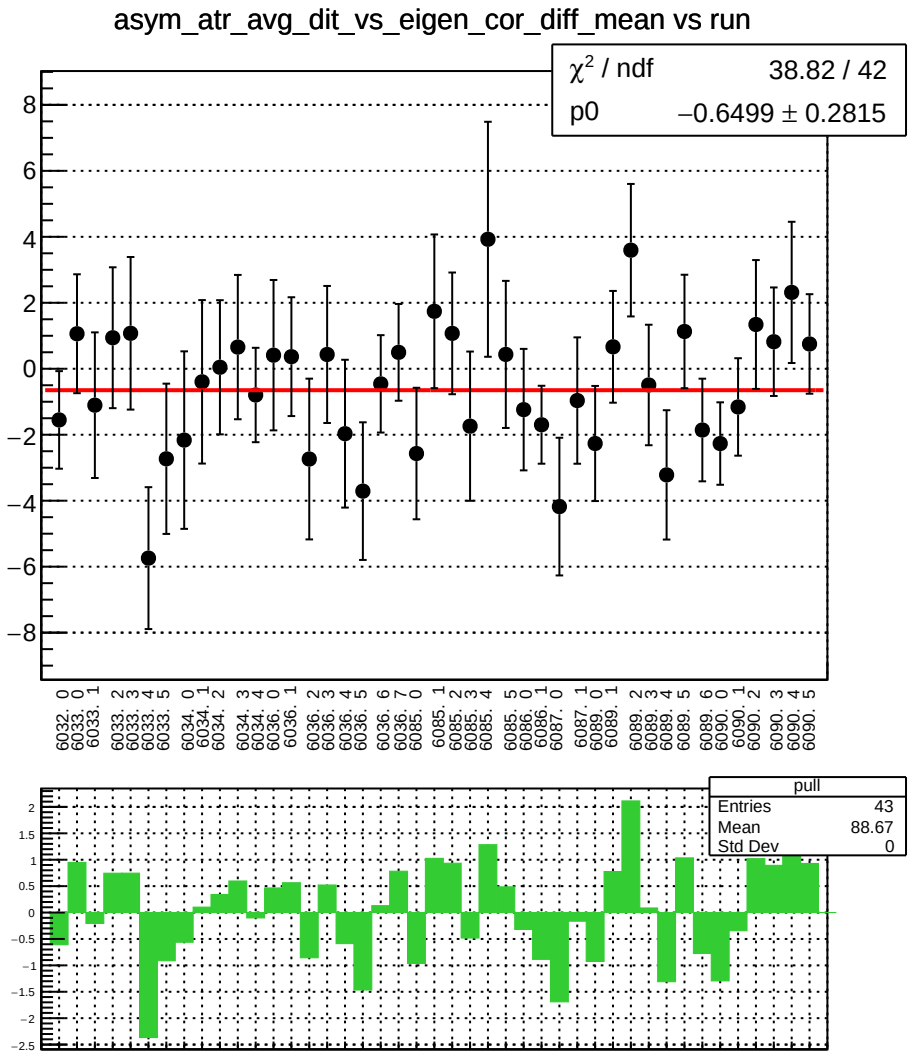

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.45 / 42
p0 −5.259e−13 ± 4.498e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1437
Std Dev 0.9094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

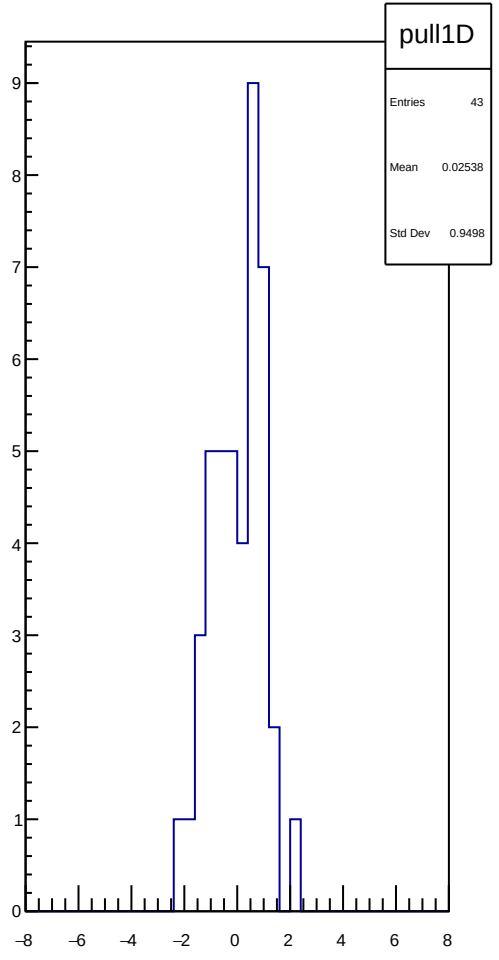

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.39e+05 / 42
p0 1.838e−10 ± 3.18e−13
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

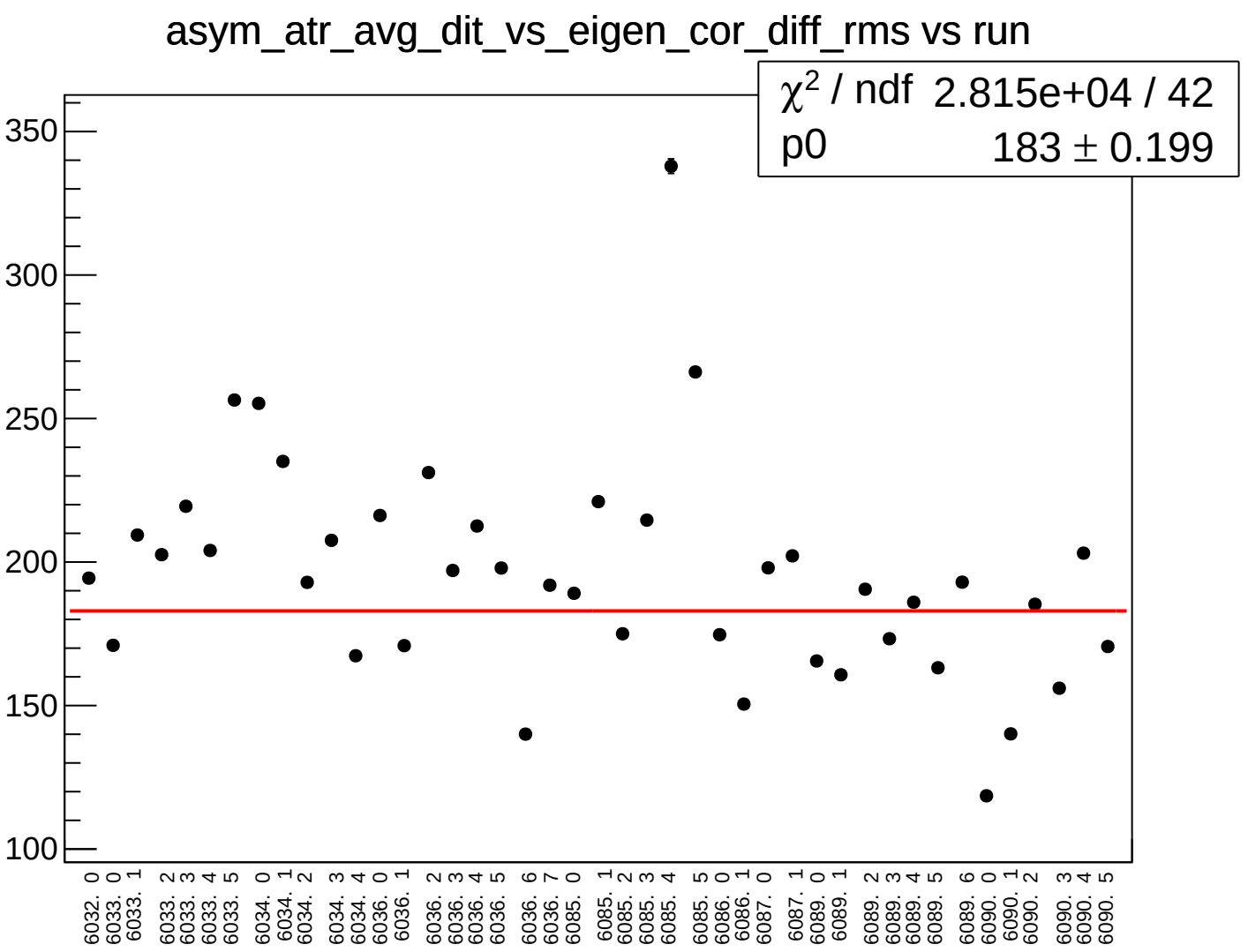

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 38.82 / 42
p0 −0.6499 ± 0.2815
pull
Entries 43
Mean 88.67
Std Dev 0

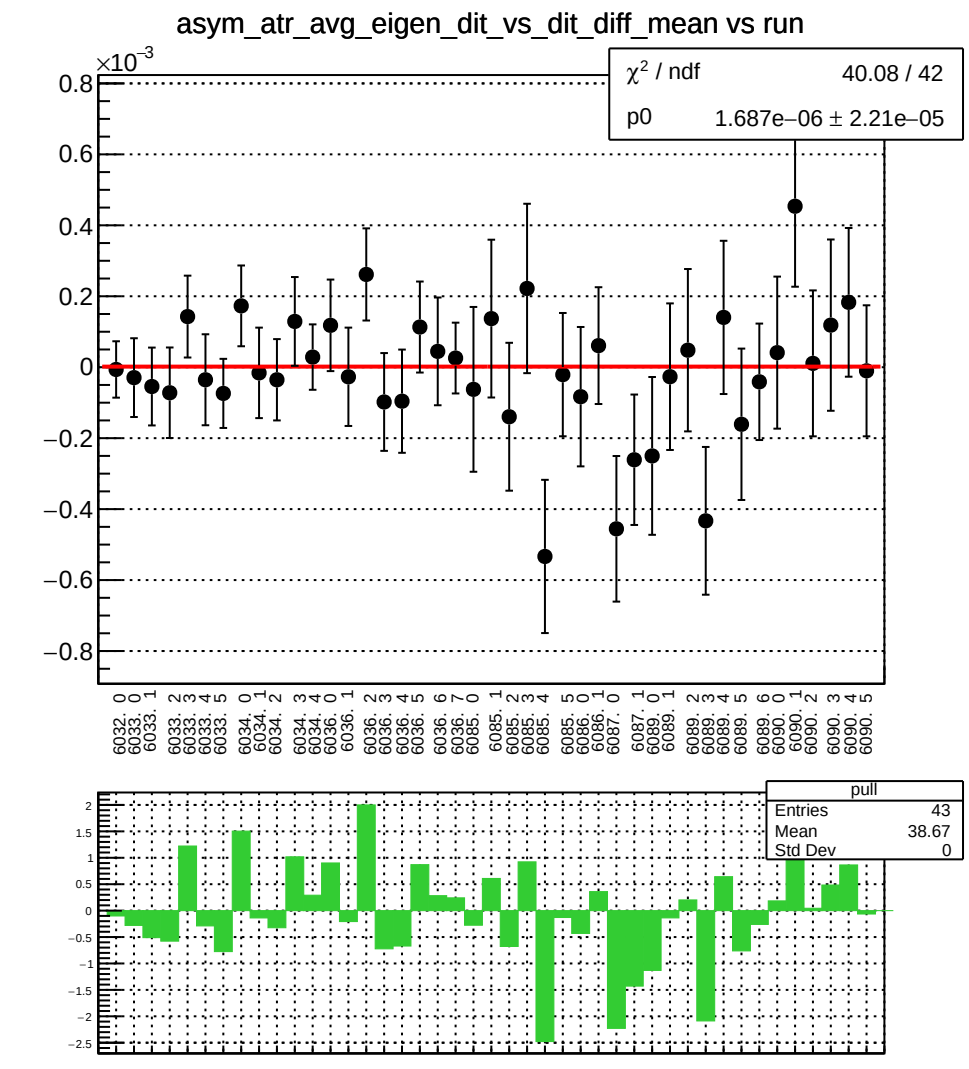

pull1D
Entries 43
Mean 0.02538
Std Dev 0.9498

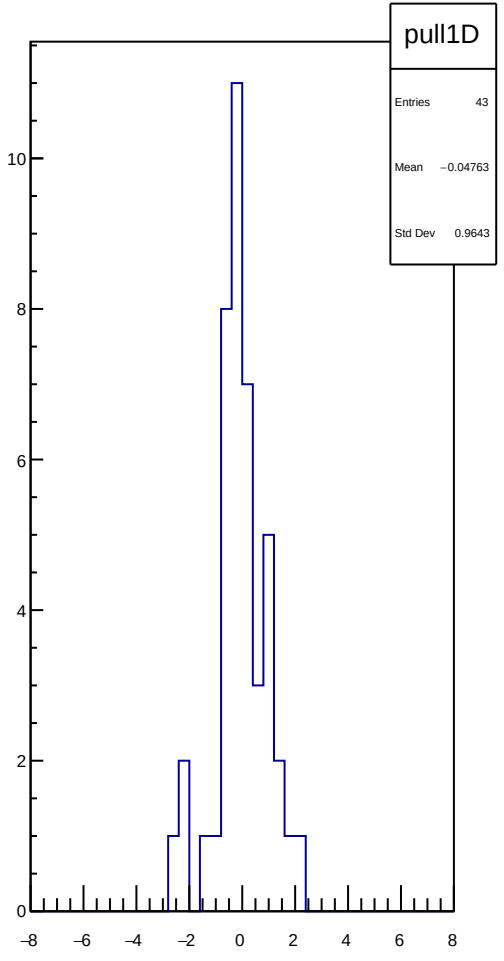

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.815e+04 / 42
p0 183 ± 0.199
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

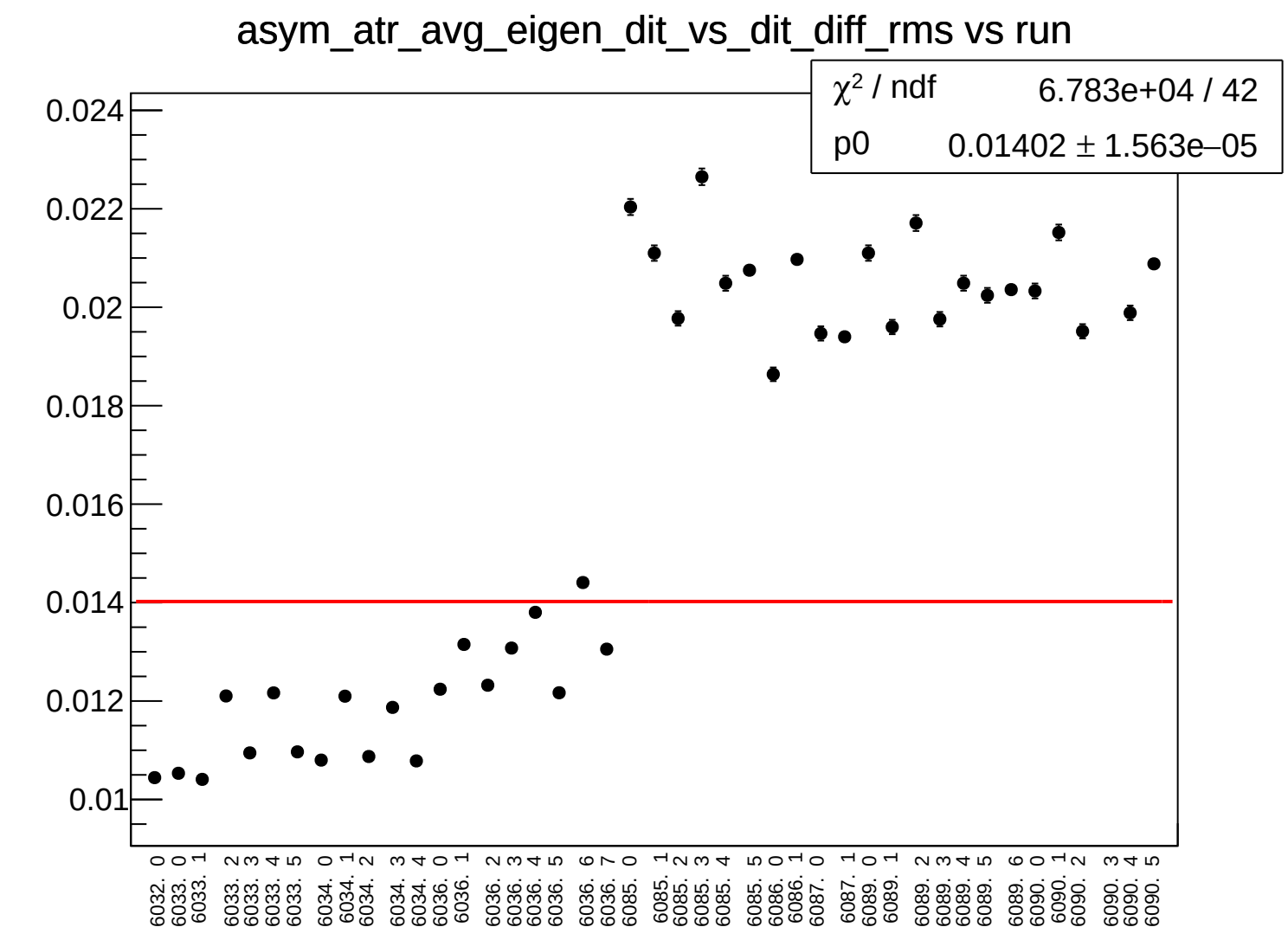

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.82 / 42
p0 −0.6499 ± 0.2815
pull
Entries 43
Mean 88.67
Std Dev 0

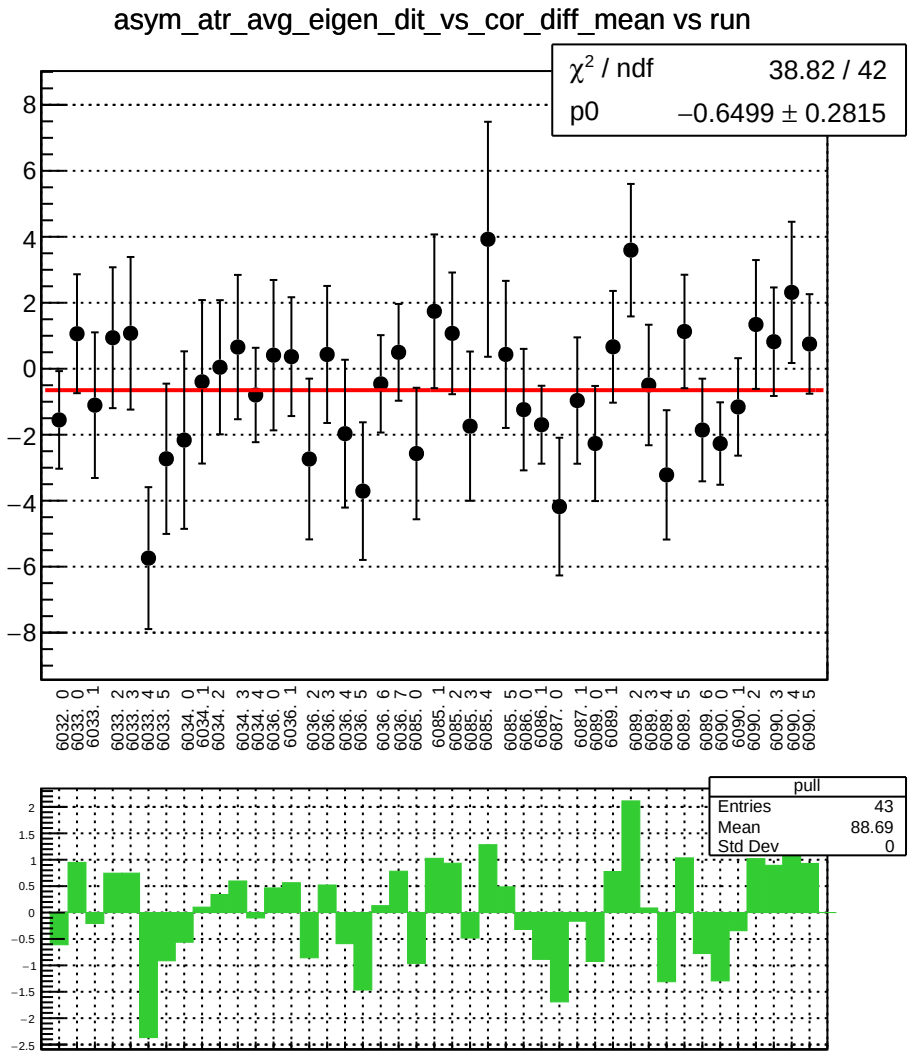

pull1D
Entries 43
Mean 0.02538
Std Dev 0.9498

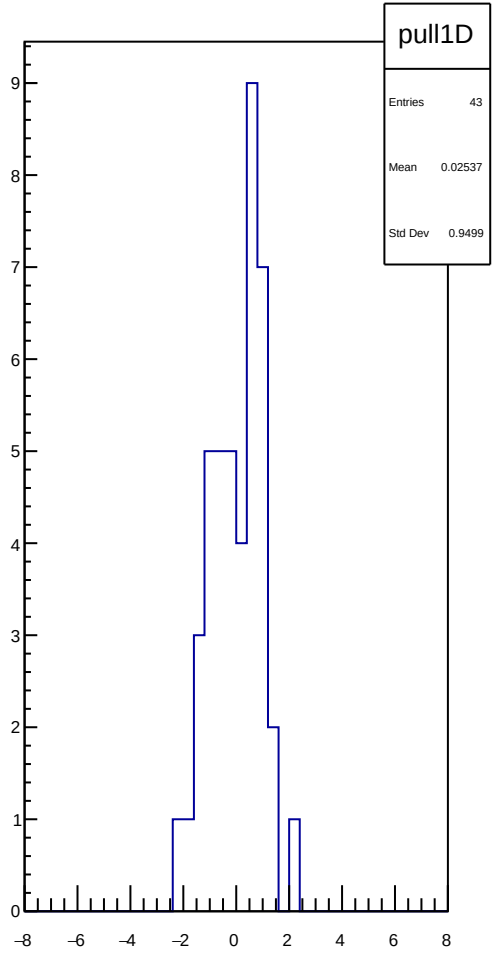

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.815e+04 / 42
p0 183 ± 0.199
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

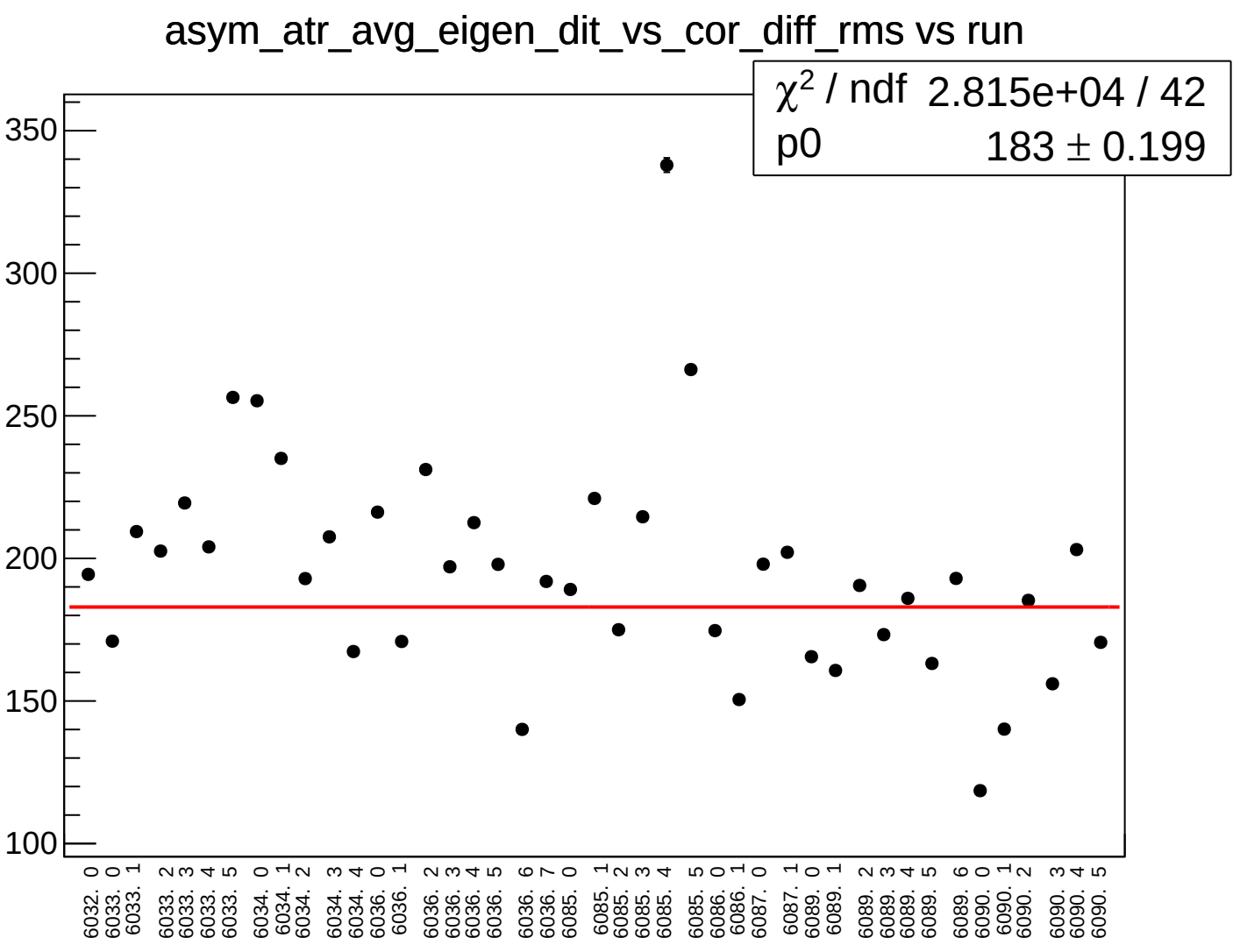

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.08 / 42
p0 1.687e−06 ± 2.21e−05
pull
Entries 43
Mean 38.67
Std Dev 0

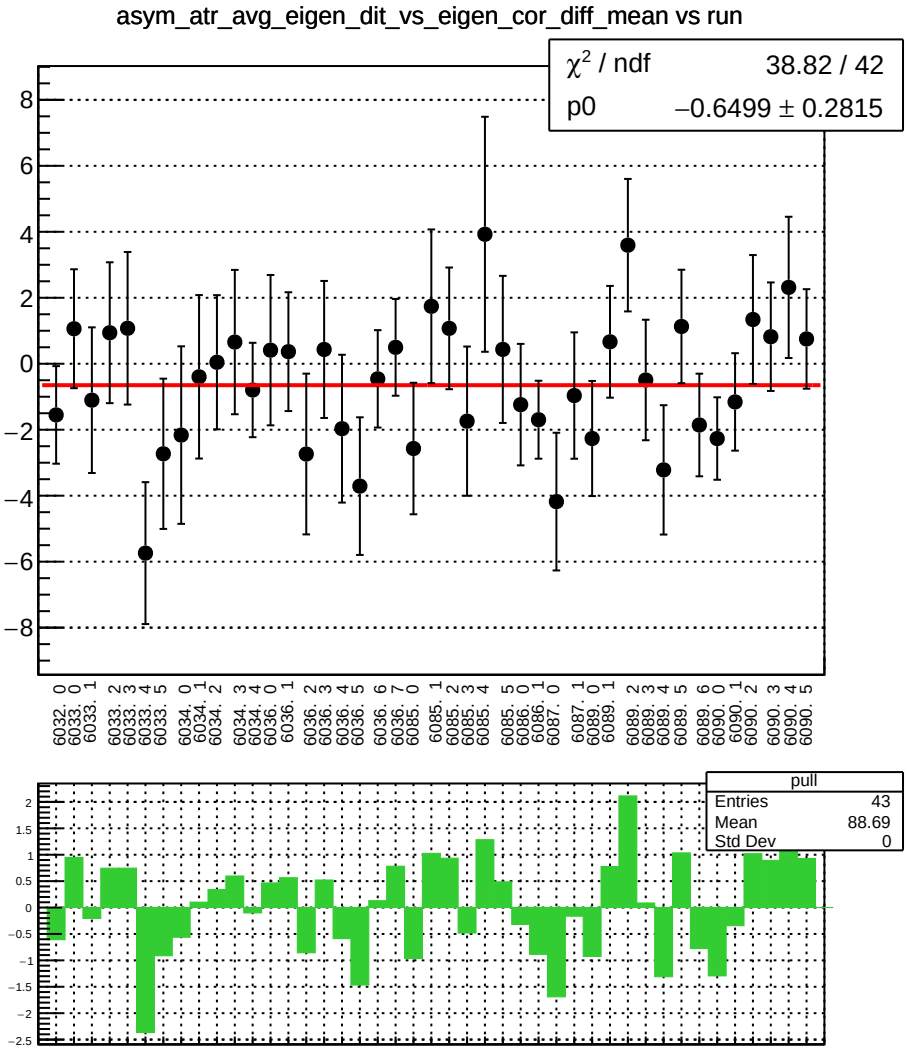

pull1D
Entries 43
Mean −0.04763
Std Dev 0.9643

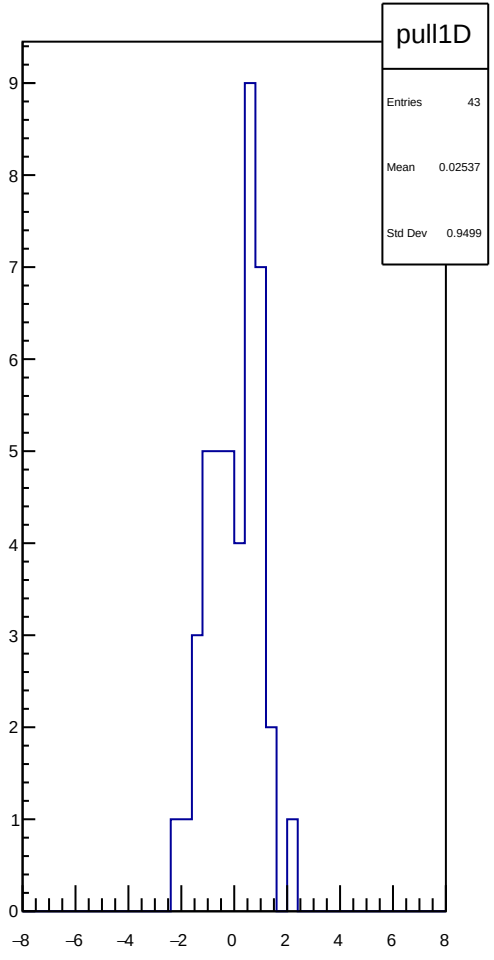

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.783e+04 / 42
p0 0.01402 ± 1.563e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

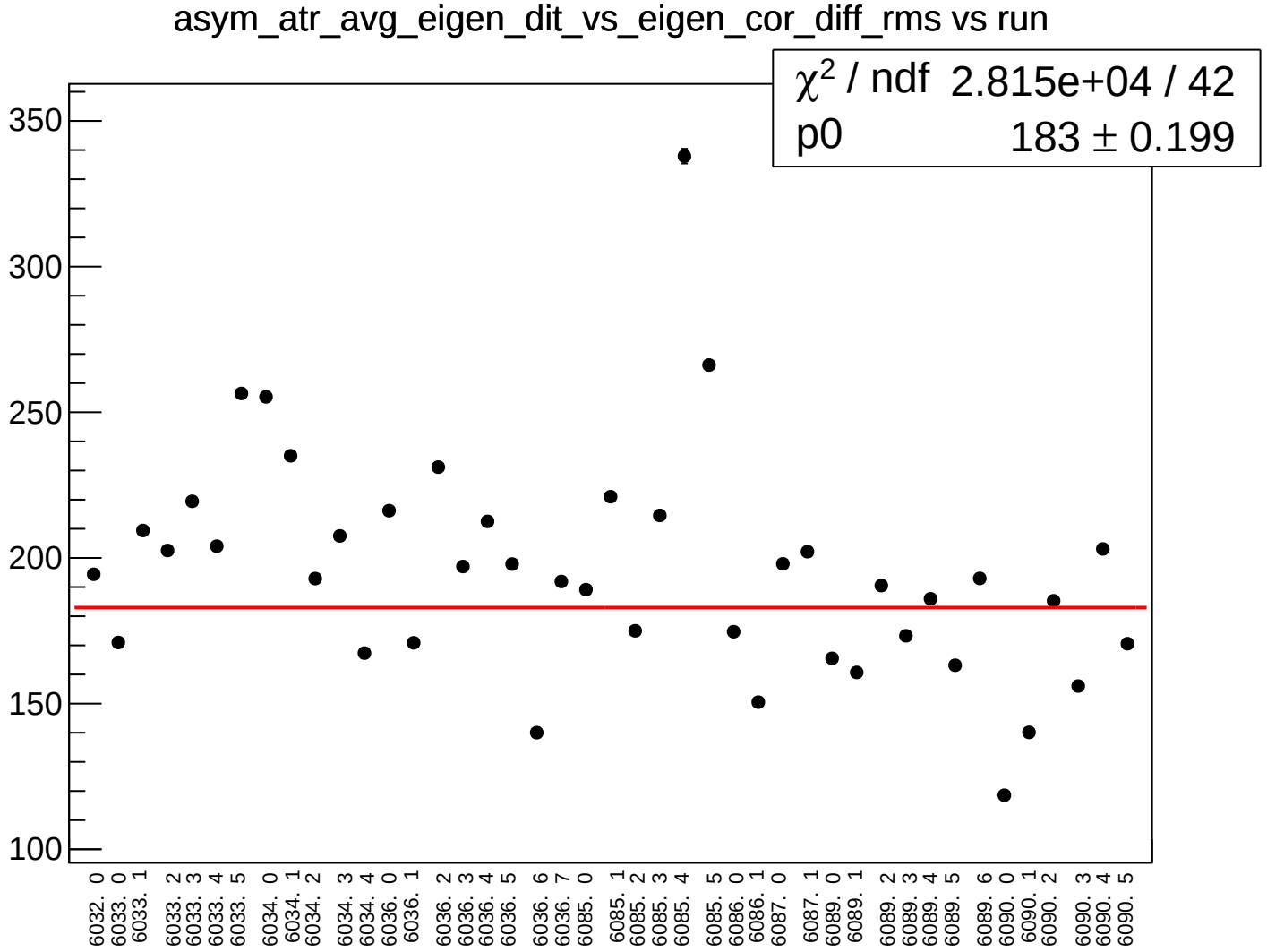

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.82 / 42
p0 −0.6499 ± 0.2815
pull
Entries 43
Mean 88.69
Std Dev 0

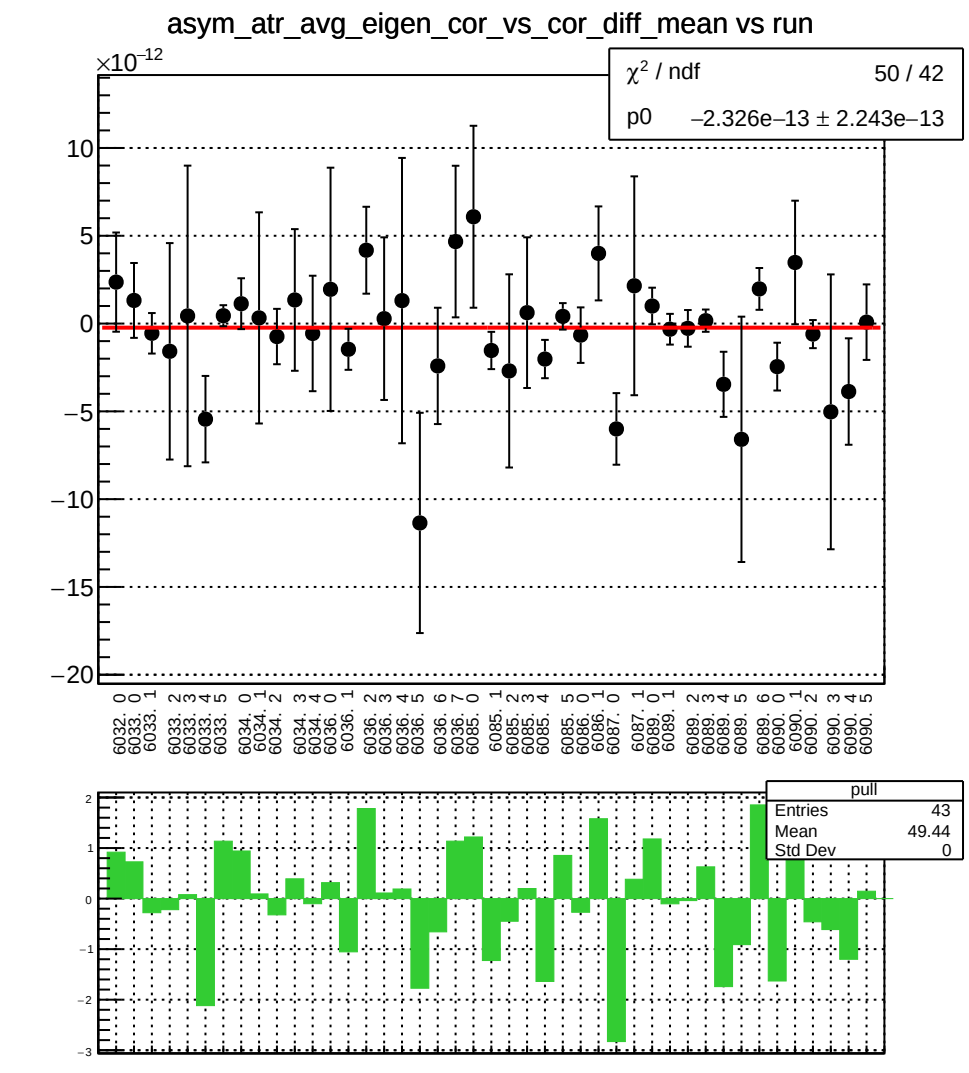

pull1D
Entries 43
Mean 0.02537
Std Dev 0.9499

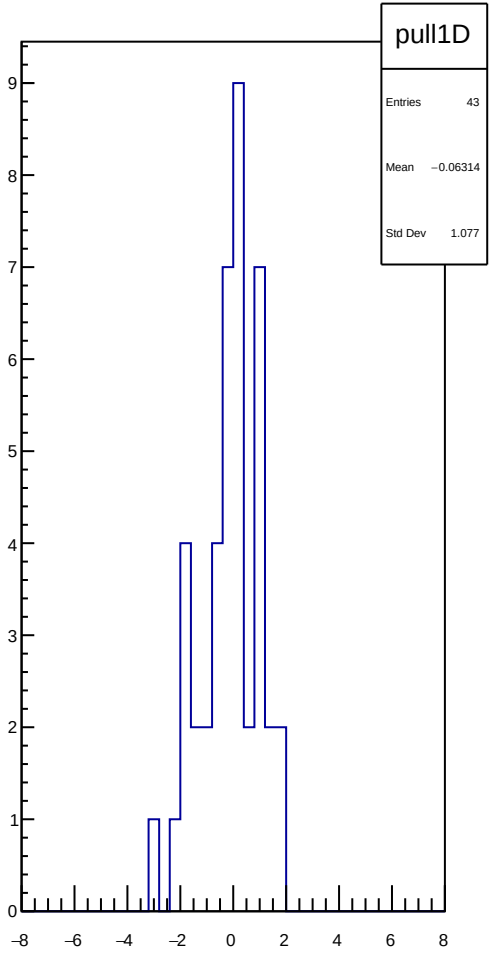

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.815e+04 / 42
p0 183 ± 0.199
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

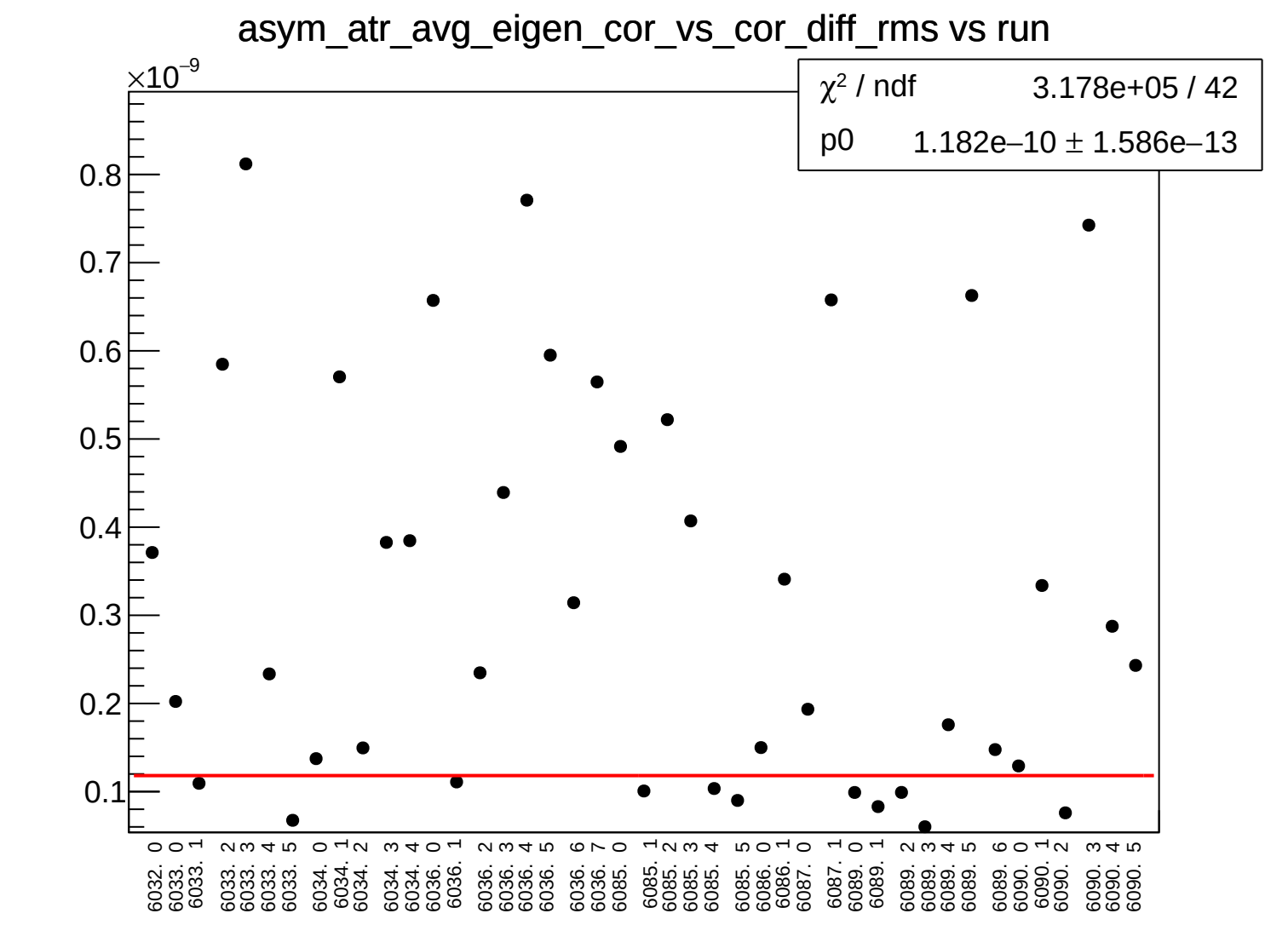

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.82 / 42
p0 −0.6499 ± 0.2815
pull
Entries 43
Mean 88.69
Std Dev 0

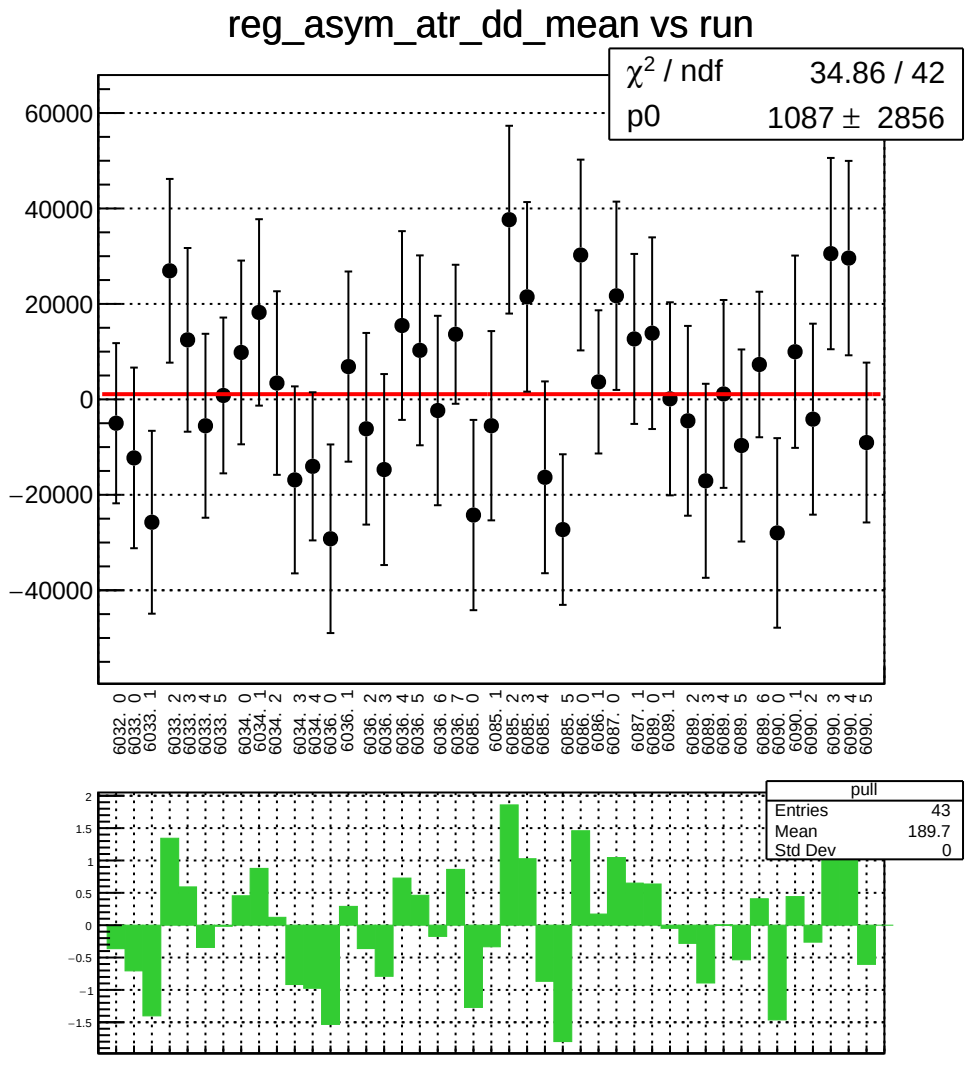

pull1D
Entries 43
Mean 0.02537
Std Dev 0.9499

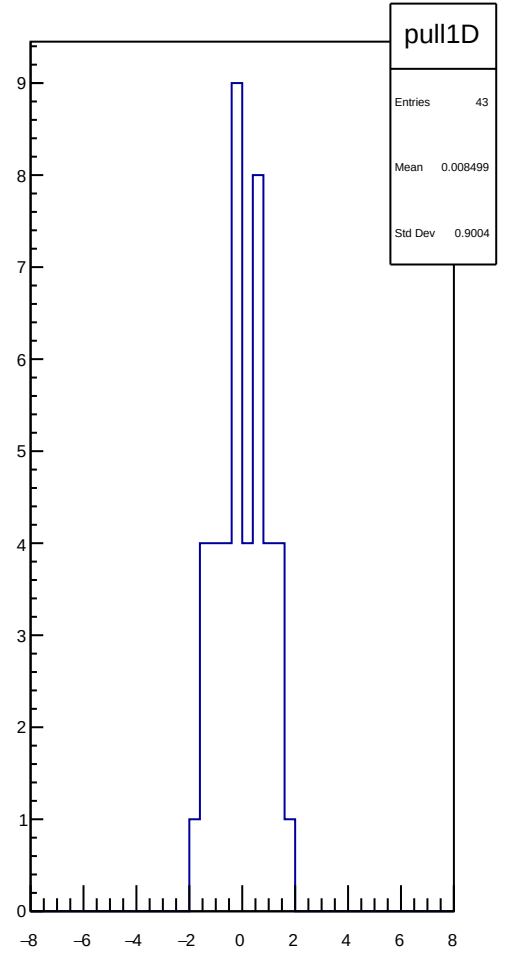

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.815e+04 / 42
p0 183 ± 0.199
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

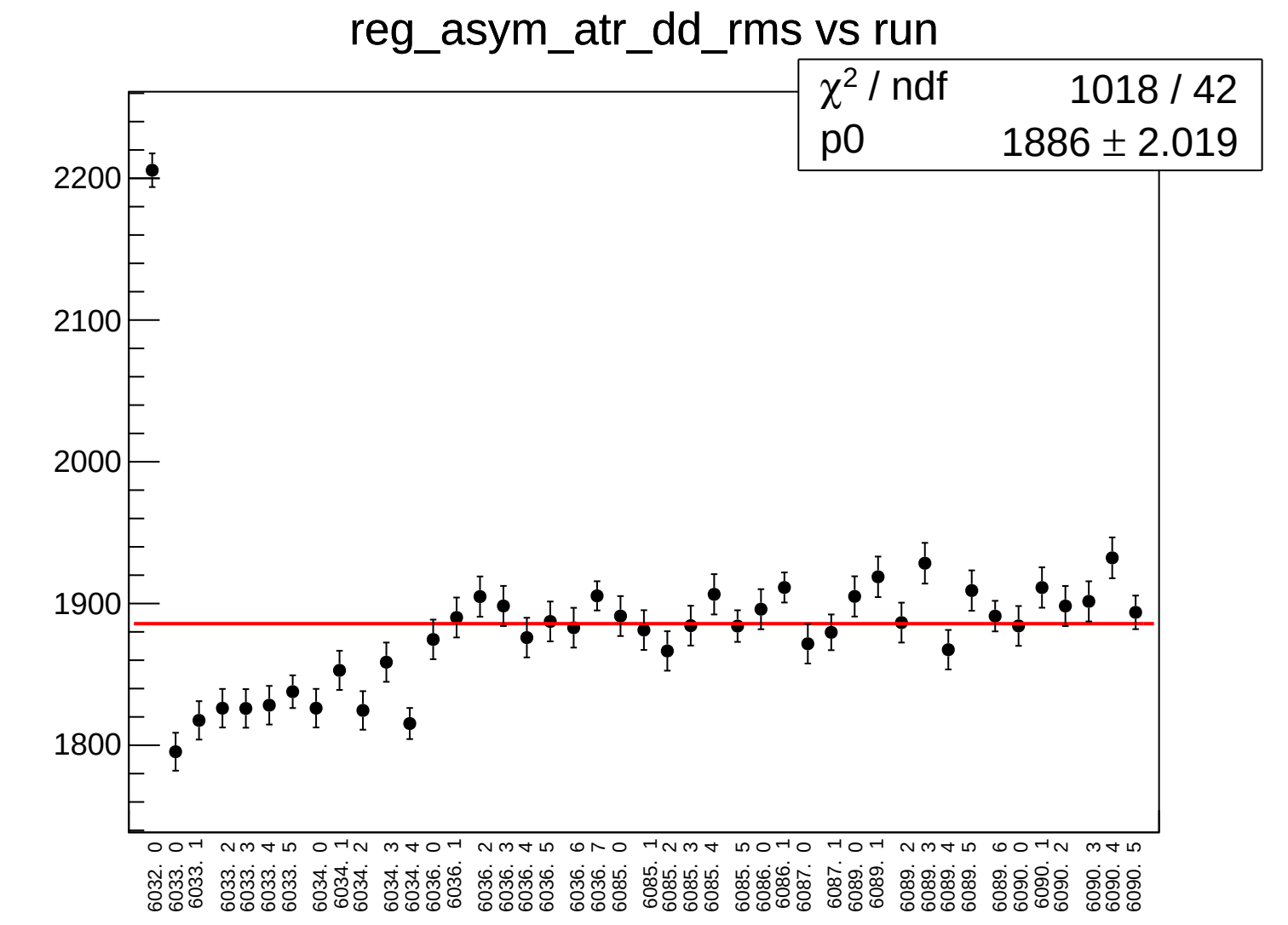

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50 / 42
p0 −2.326e−13 ± 2.243e−13
pull
Entries 43
Mean 49.44
Std Dev 0

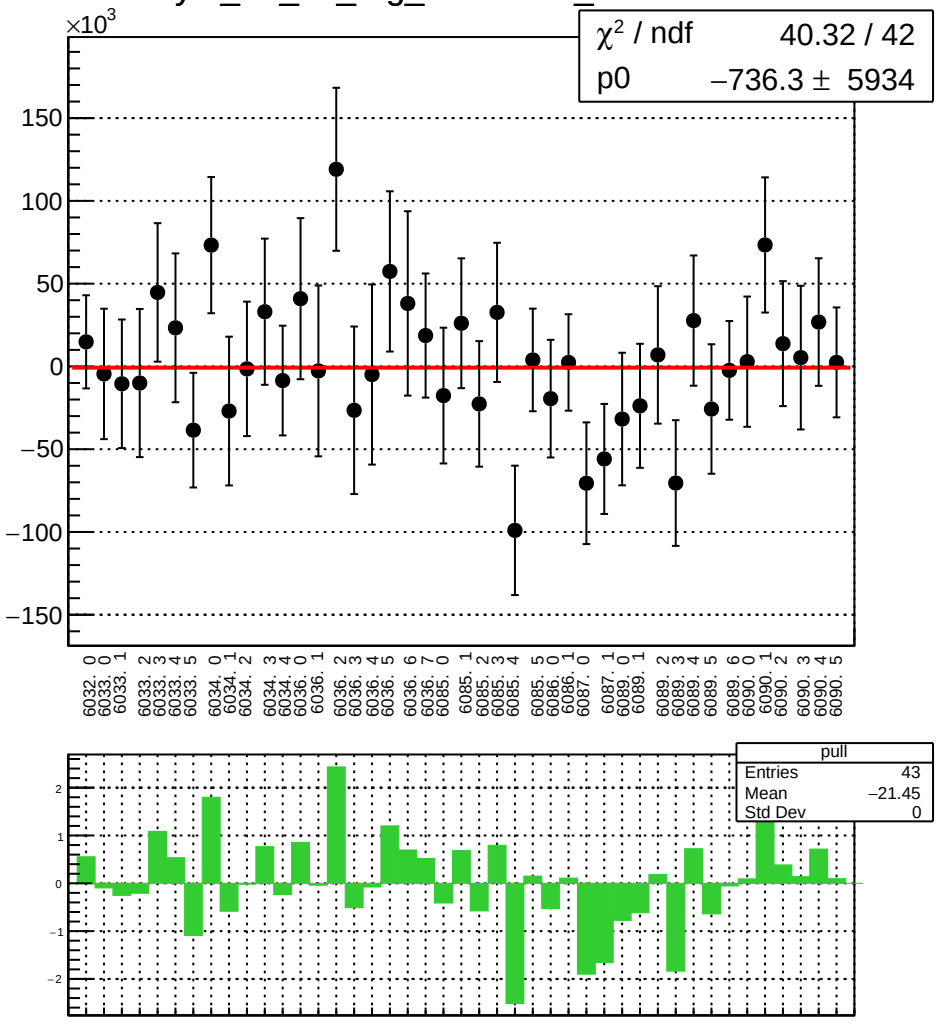

pull1D
Entries 43
Mean −0.06314
Std Dev 1.077

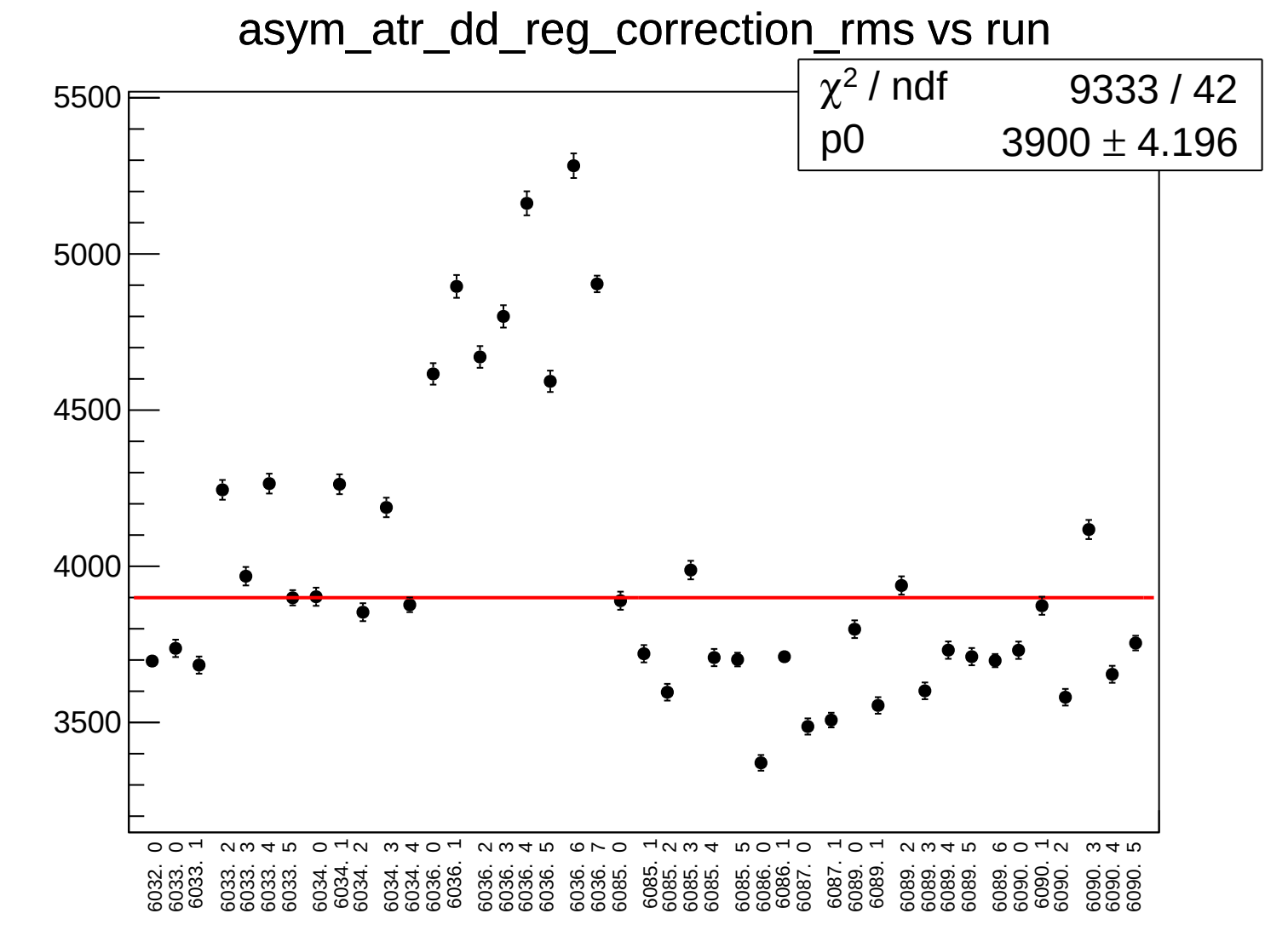

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.178e+05 / 42
p0 1.182e−10 ± 1.586e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


reg_asym_atr_dd_mean vs run
χ² / ndf 34.86 / 42
p0 1087 ± 2856
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 189.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.008499
Std Dev 0.9004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_rms vs run
χ² / ndf 1018 / 42
p0 1886 ± 2.019
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.32 / 42
p0 −736.3 ± 5934
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −21.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03987
Std Dev 0.9676
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 9333 / 42
p0 3900 ± 4.196
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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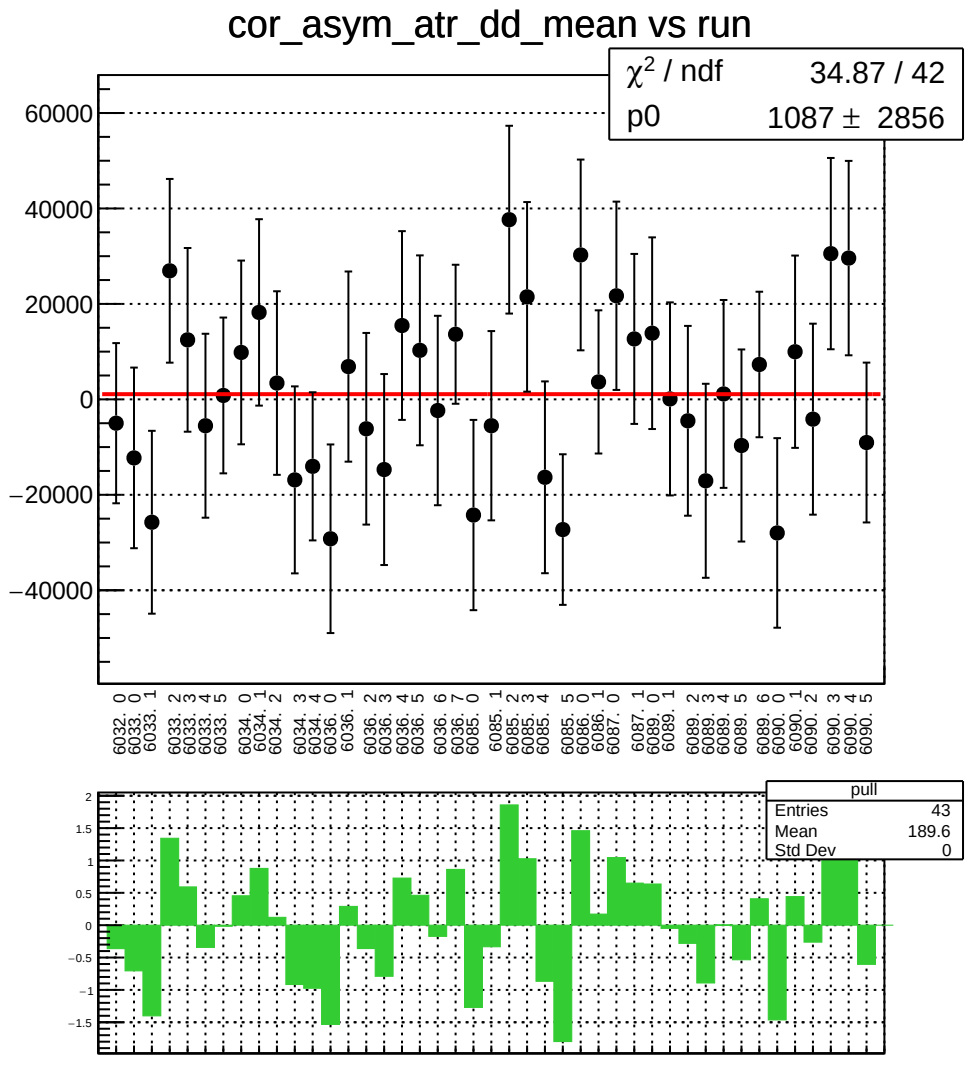
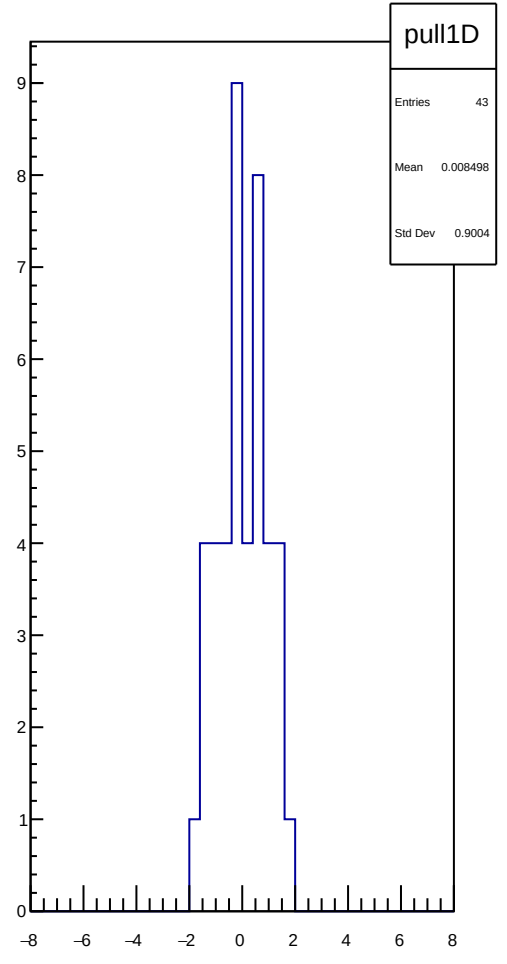
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_atr_dd_mean vs run
χ² / ndf 34.87 / 42
p0 1087 ± 2856
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 189.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.008498
Std Dev 0.9004
9
8
7
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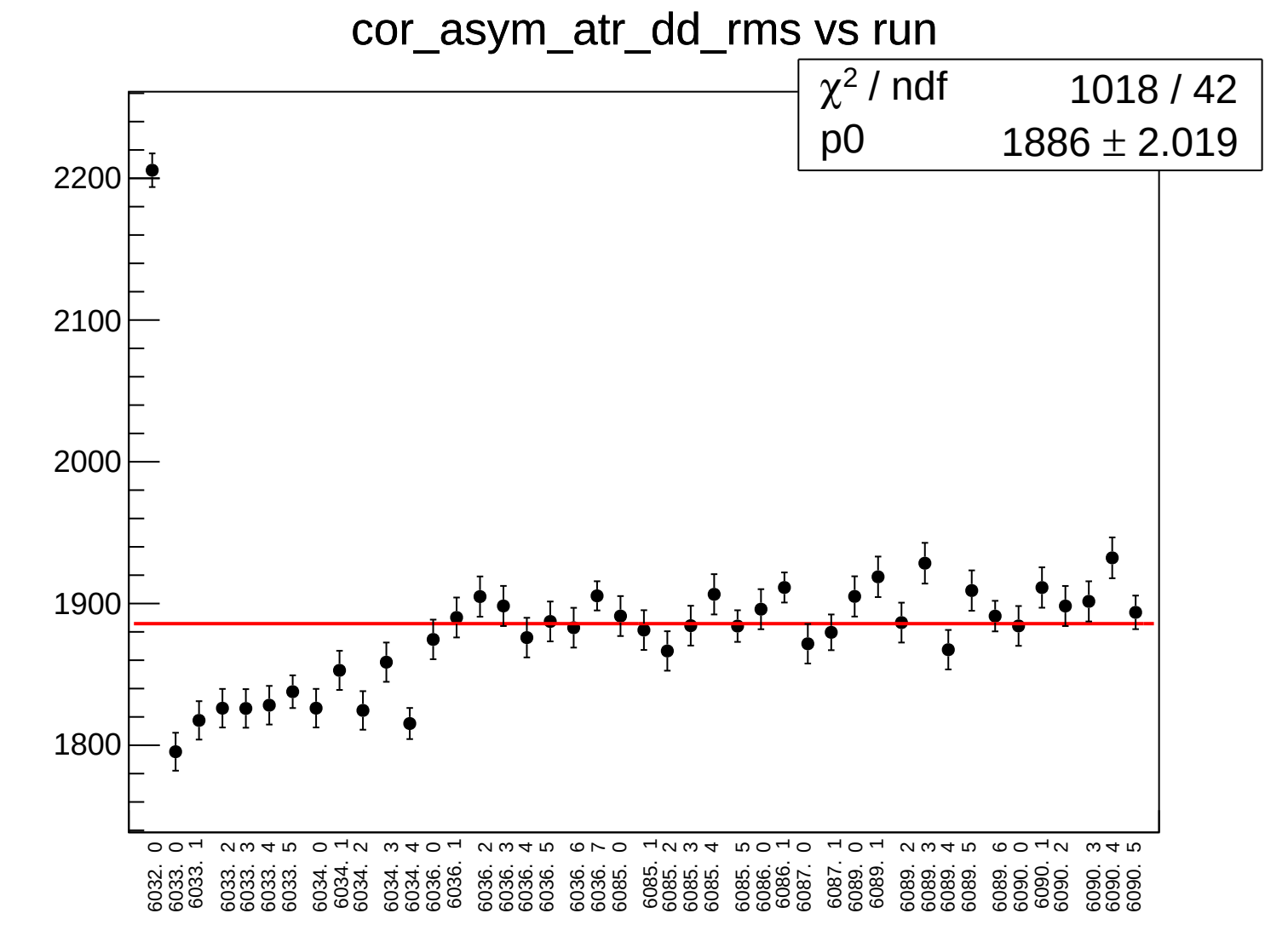
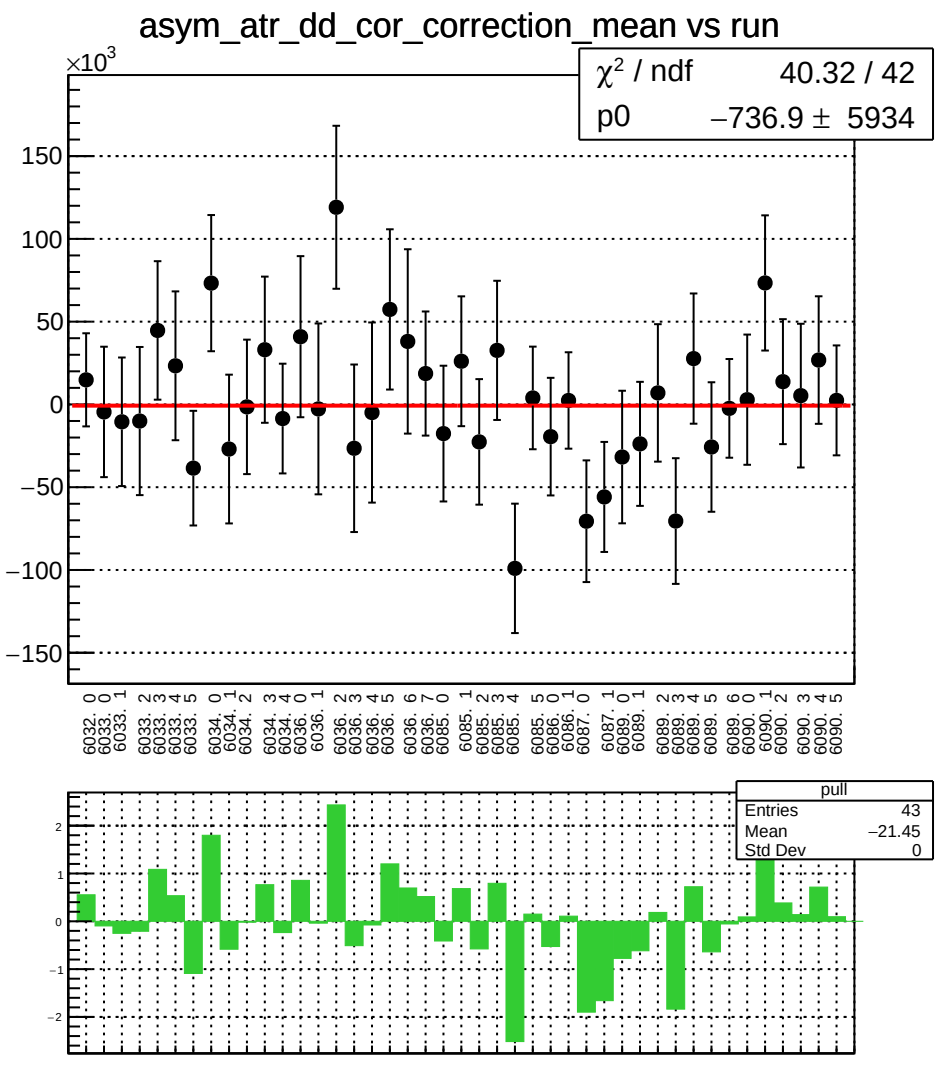
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_dd_rms vs run
χ² / ndf 1018 / 42
p0 1886 ± 2.019
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.32 / 42
p0 −736.9 ± 5934
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −21.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03988
Std Dev 0.9676
9
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6
5
4
3
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1
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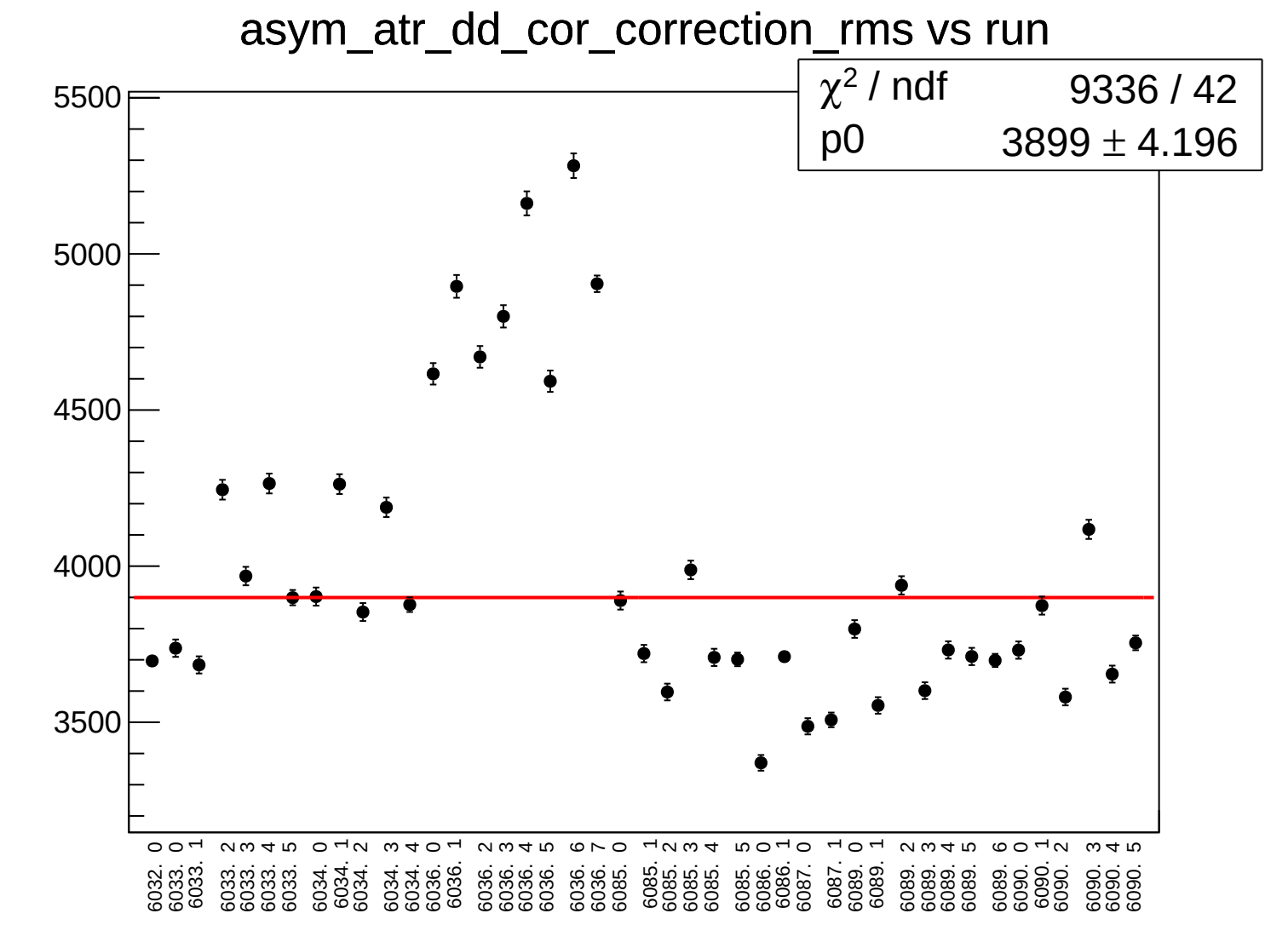
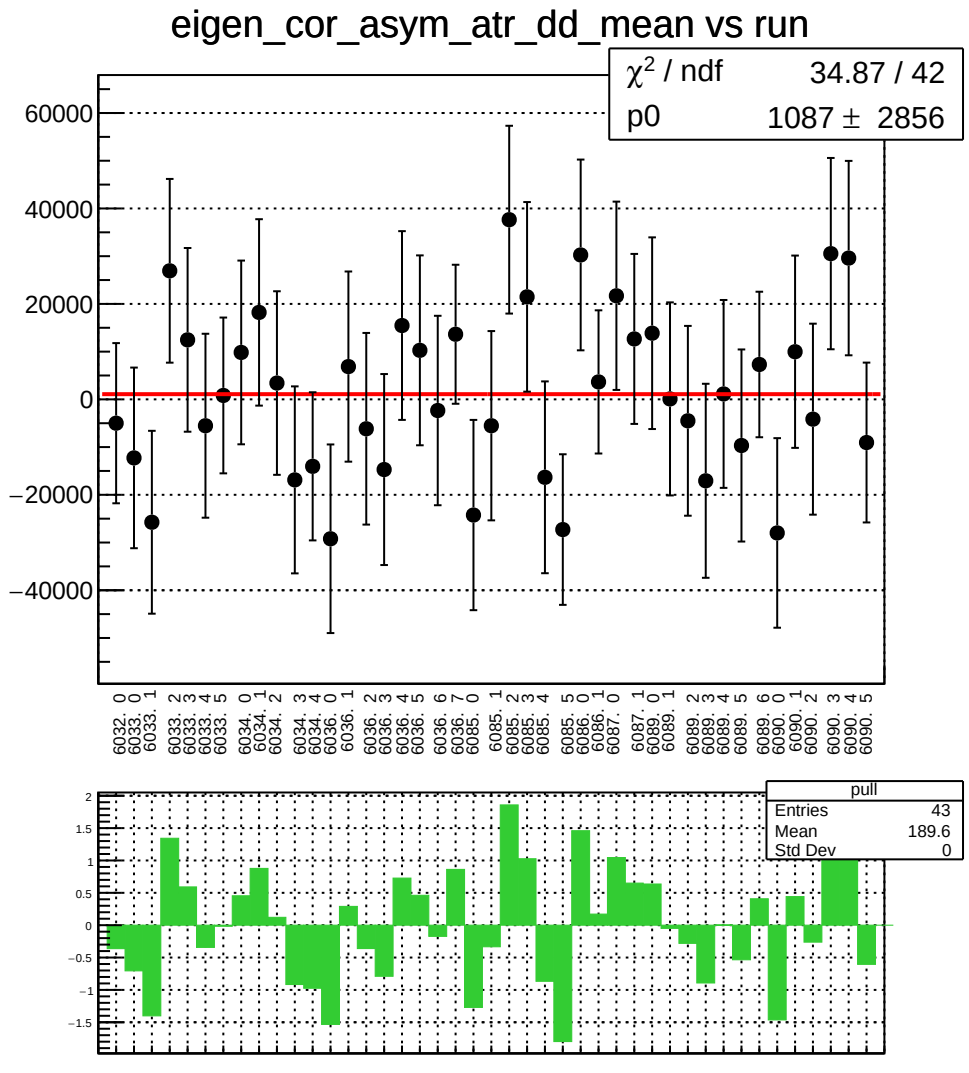
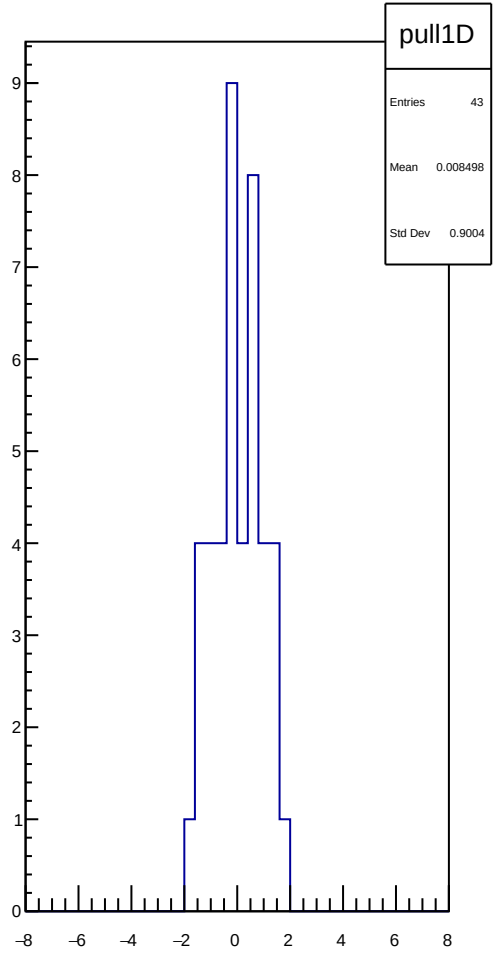
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_cor_correction_rms vs run
χ² / ndf 9336 / 42
p0 3899 ± 4.196
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 34.87 / 42
p0 1087 ± 2856
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 189.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.008498
Std Dev 0.9004
9
8
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−8
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−4
−2
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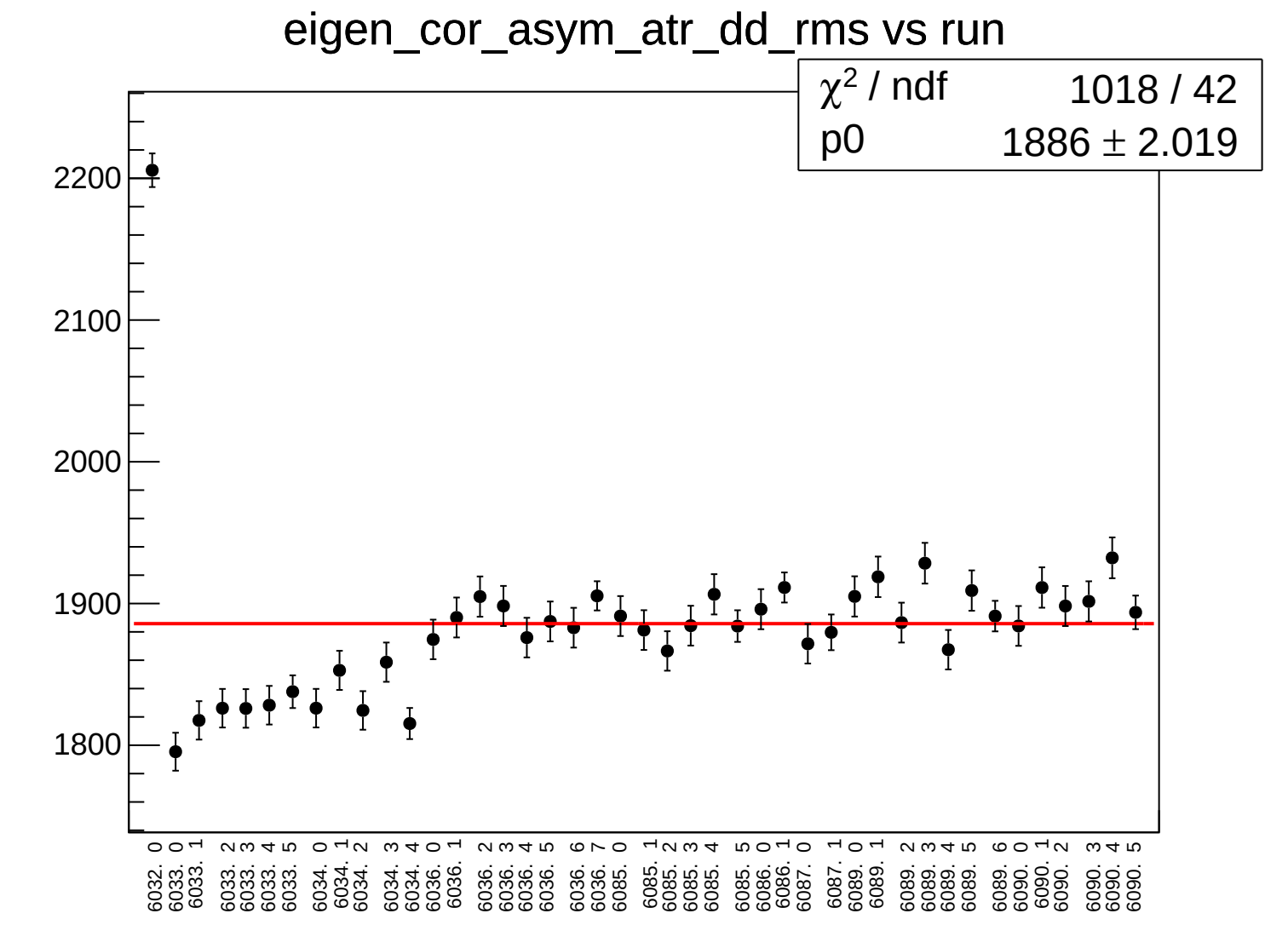
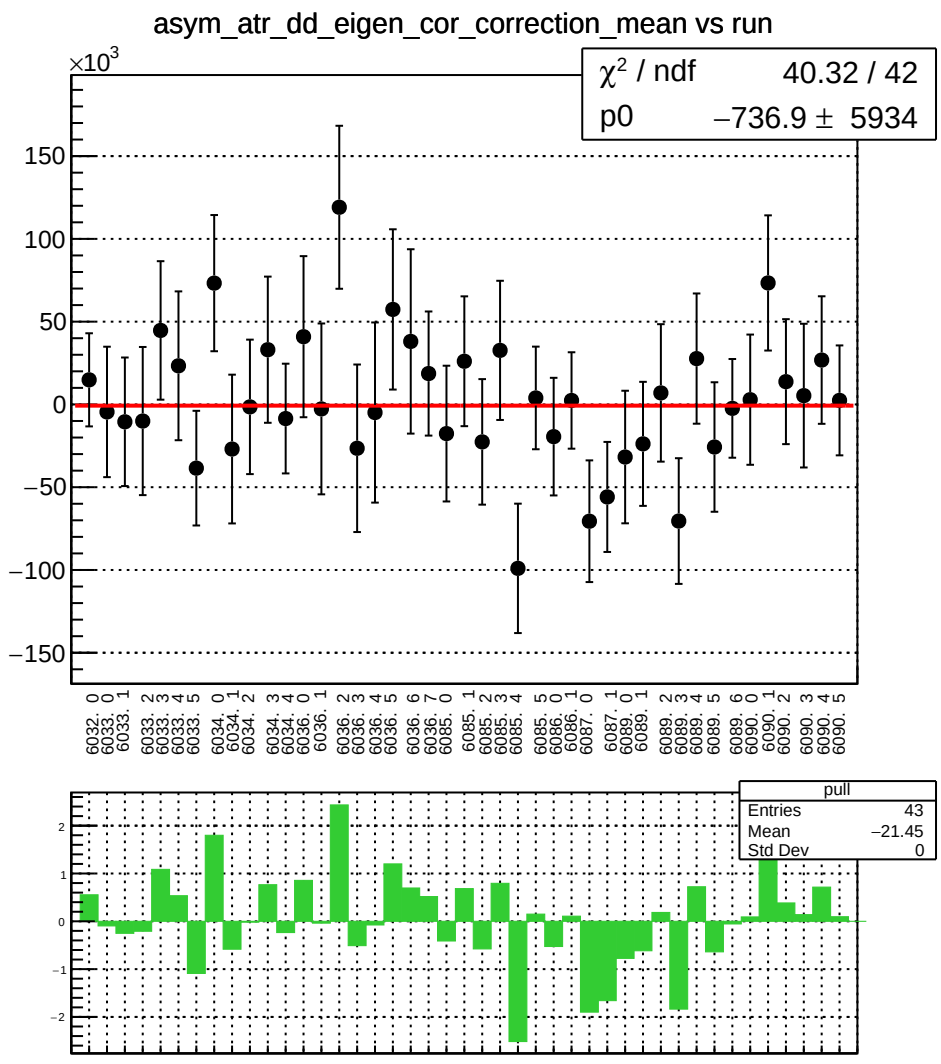

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 1018 / 42
p0 1886 ± 2.019
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.32 / 42
p0 −736.9 ± 5934
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −21.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03988
Std Dev 0.9676
9
8
7
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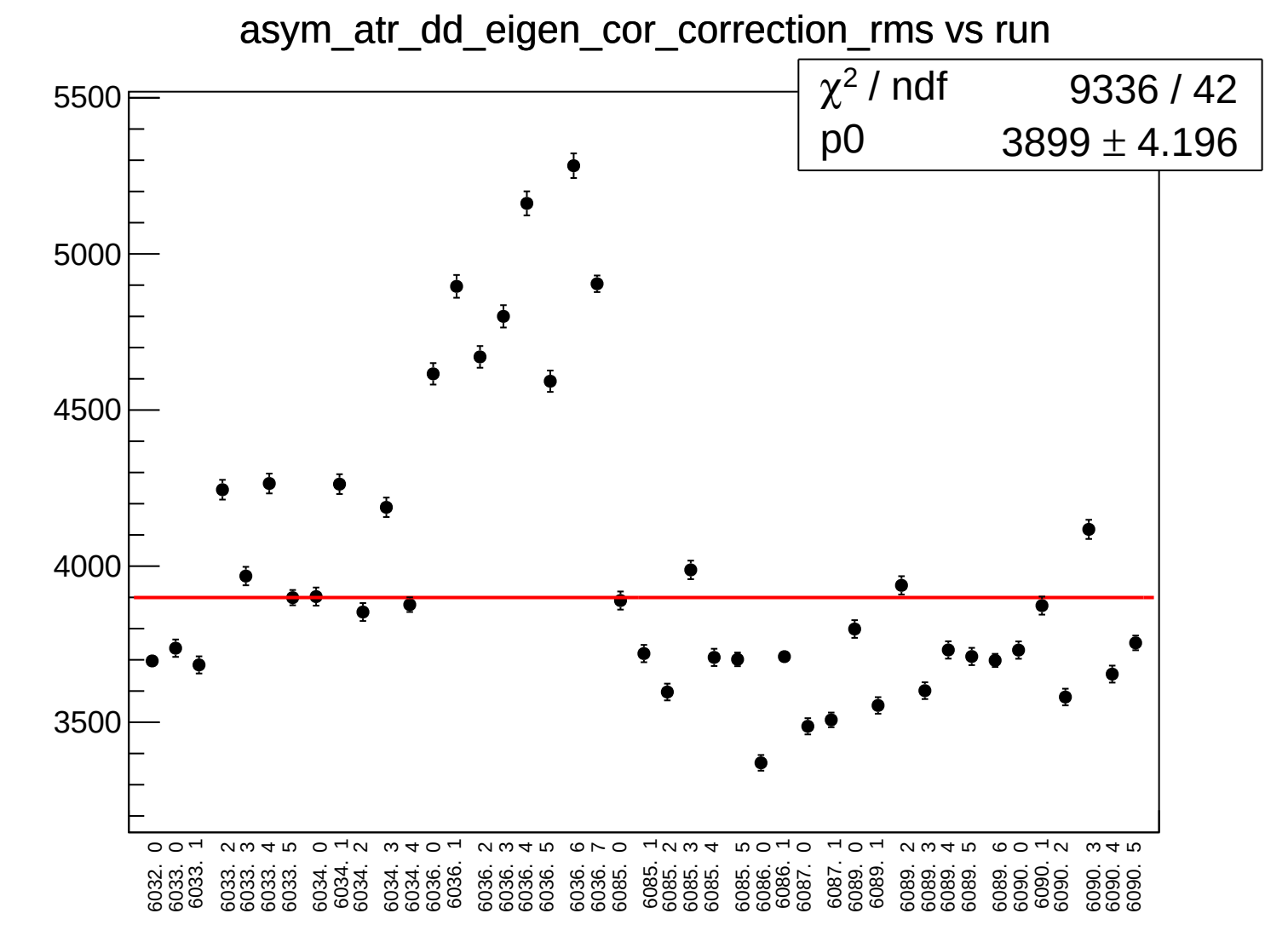
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 9336 / 42
p0 3899 ± 4.196
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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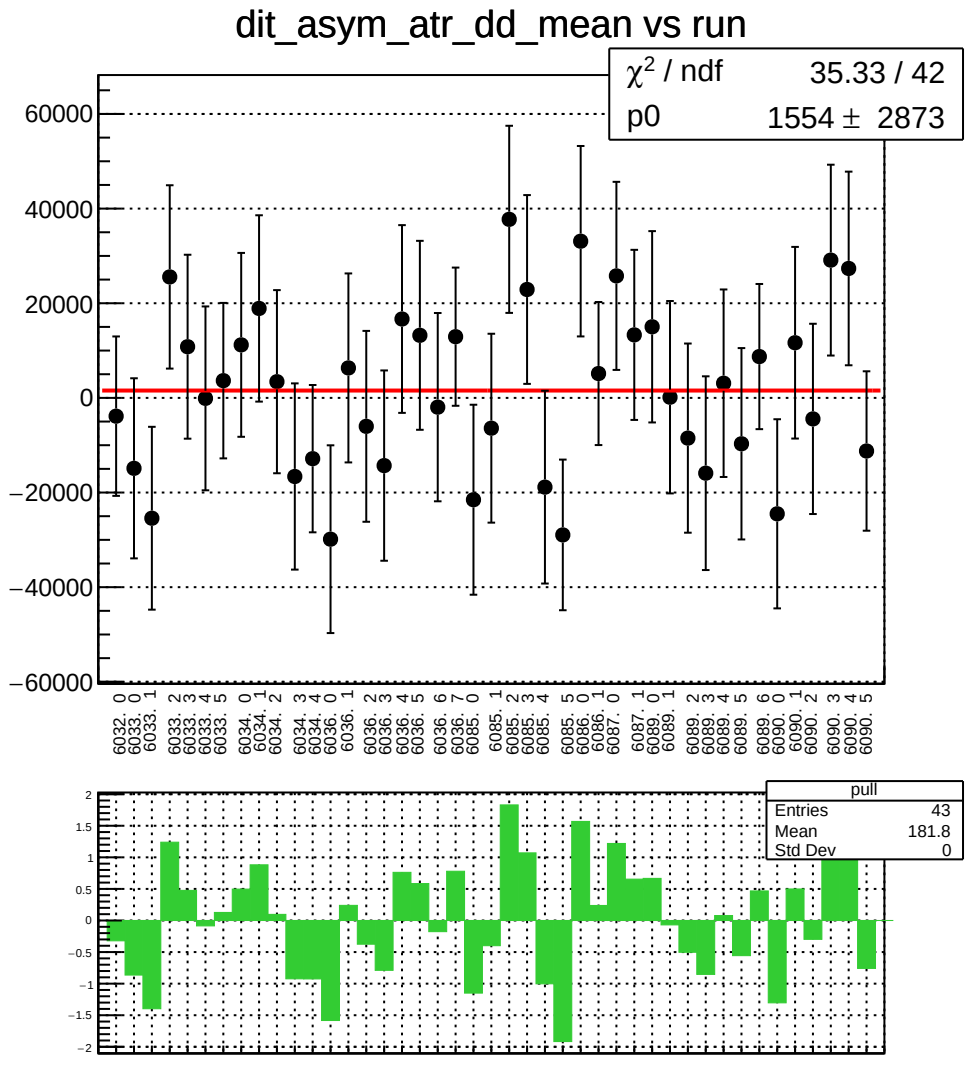
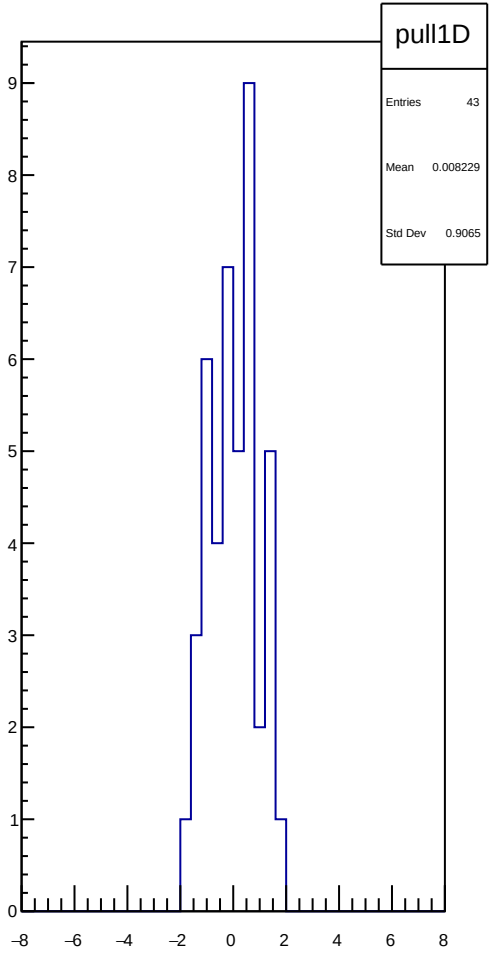
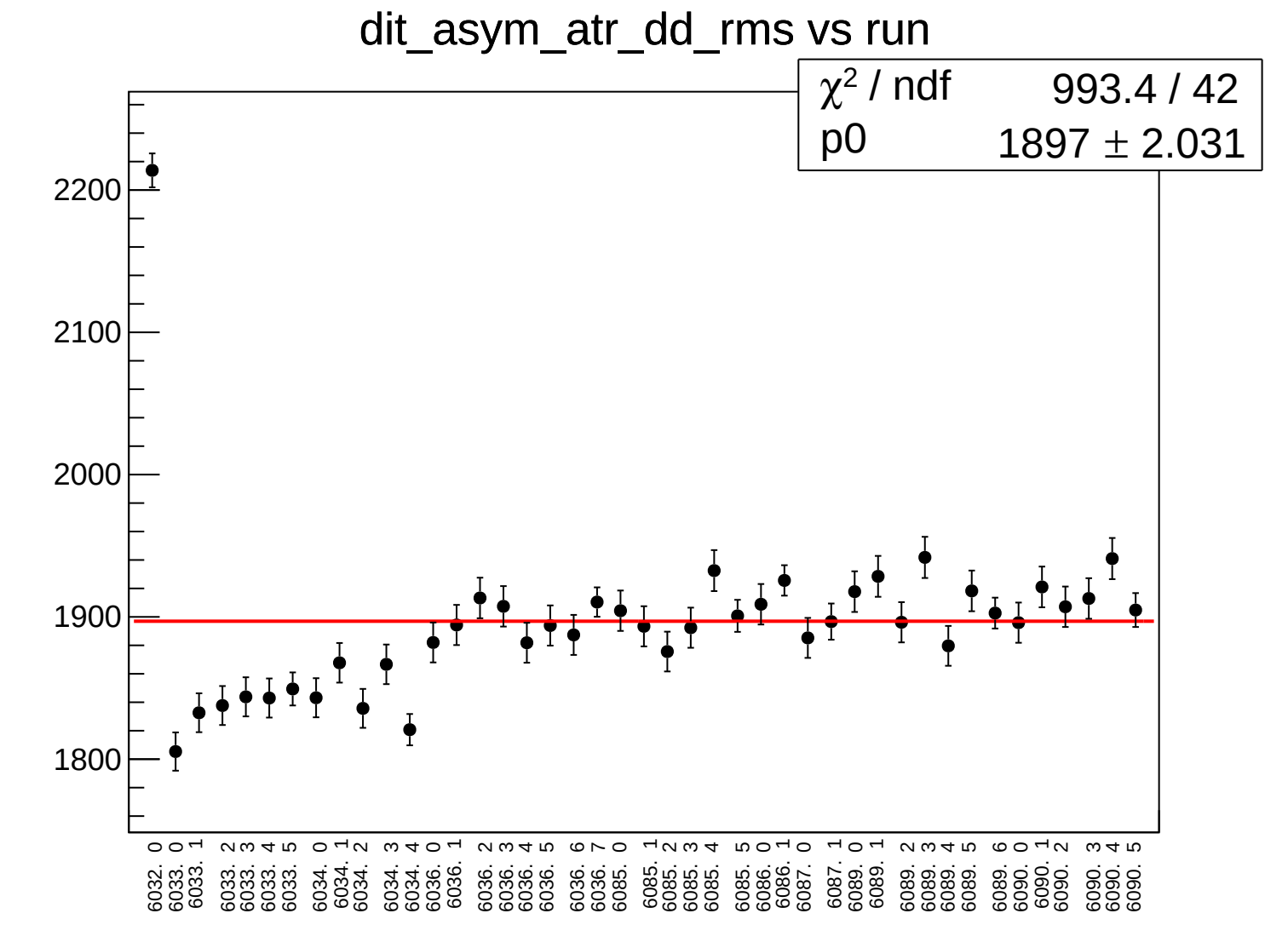
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_atr_dd_mean vs run
χ² / ndf 35.33 / 42
p0 1554 ± 2873
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 181.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.008229
Std Dev 0.9065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr_dd_rms vs run
χ² / ndf 993.4 / 42
p0 1897 ± 2.031
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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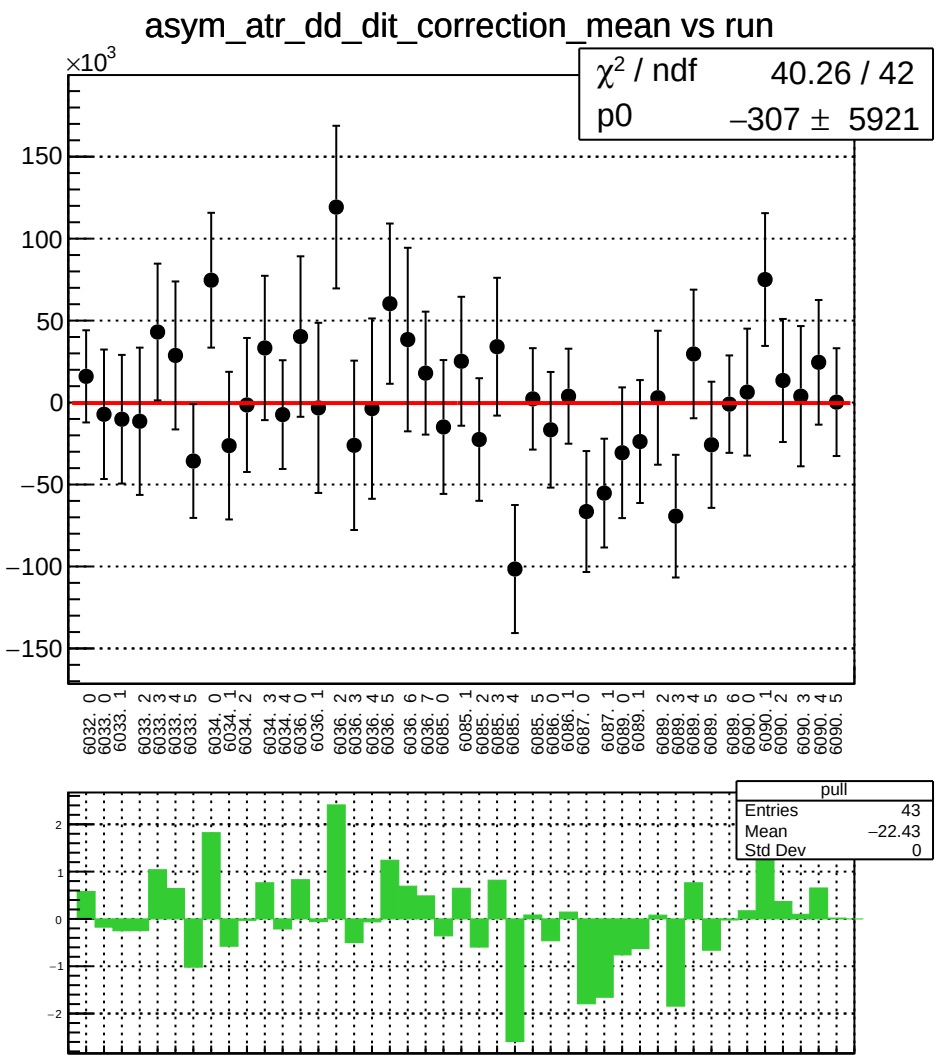
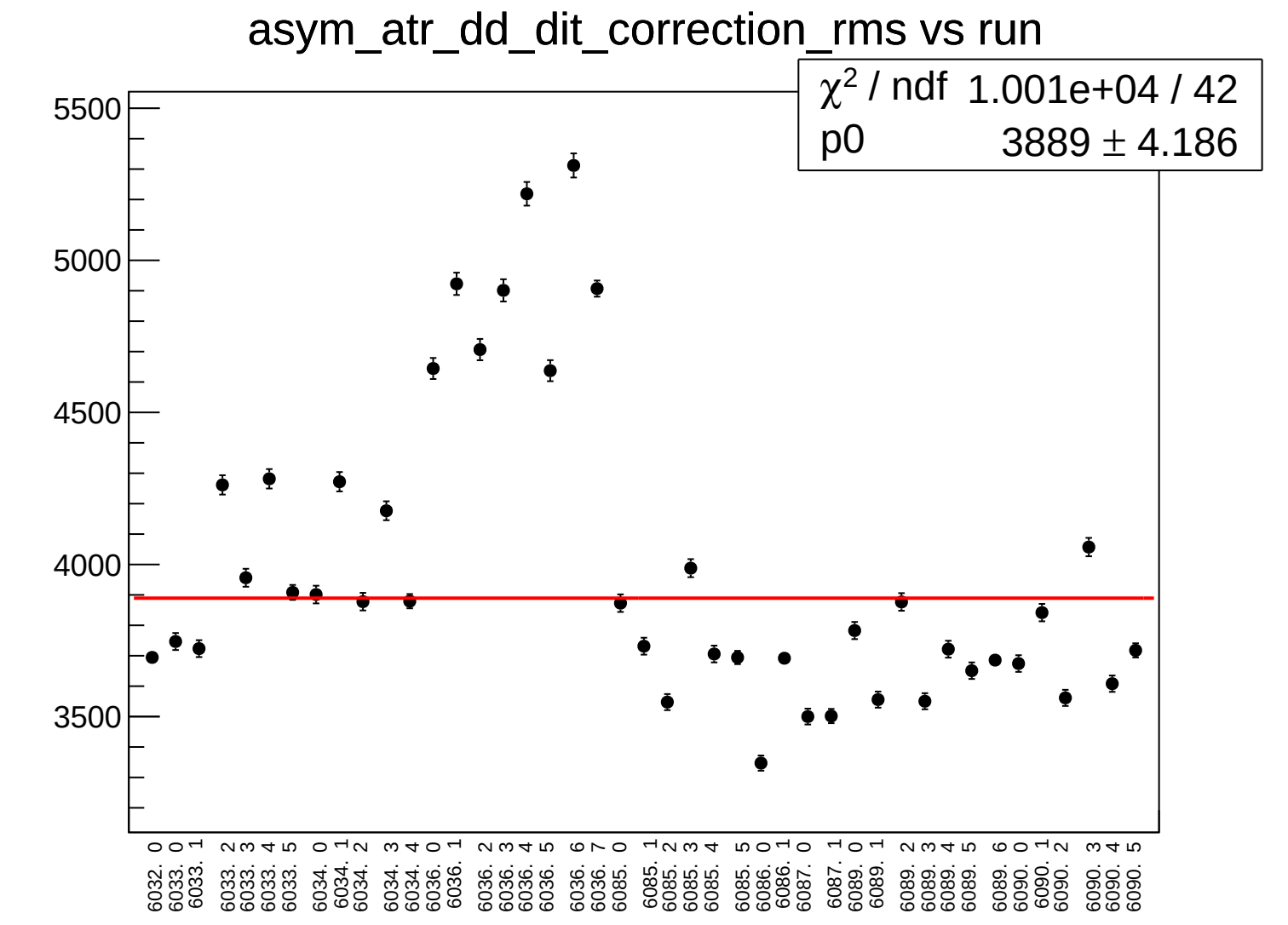
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 40.26 / 42
p0 −307 ± 5921
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −22.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04007
Std Dev 0.9667
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 1.001e+04 / 42
p0 3889 ± 4.186
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
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6036. 3
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6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
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6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
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6090. 1
6090. 2
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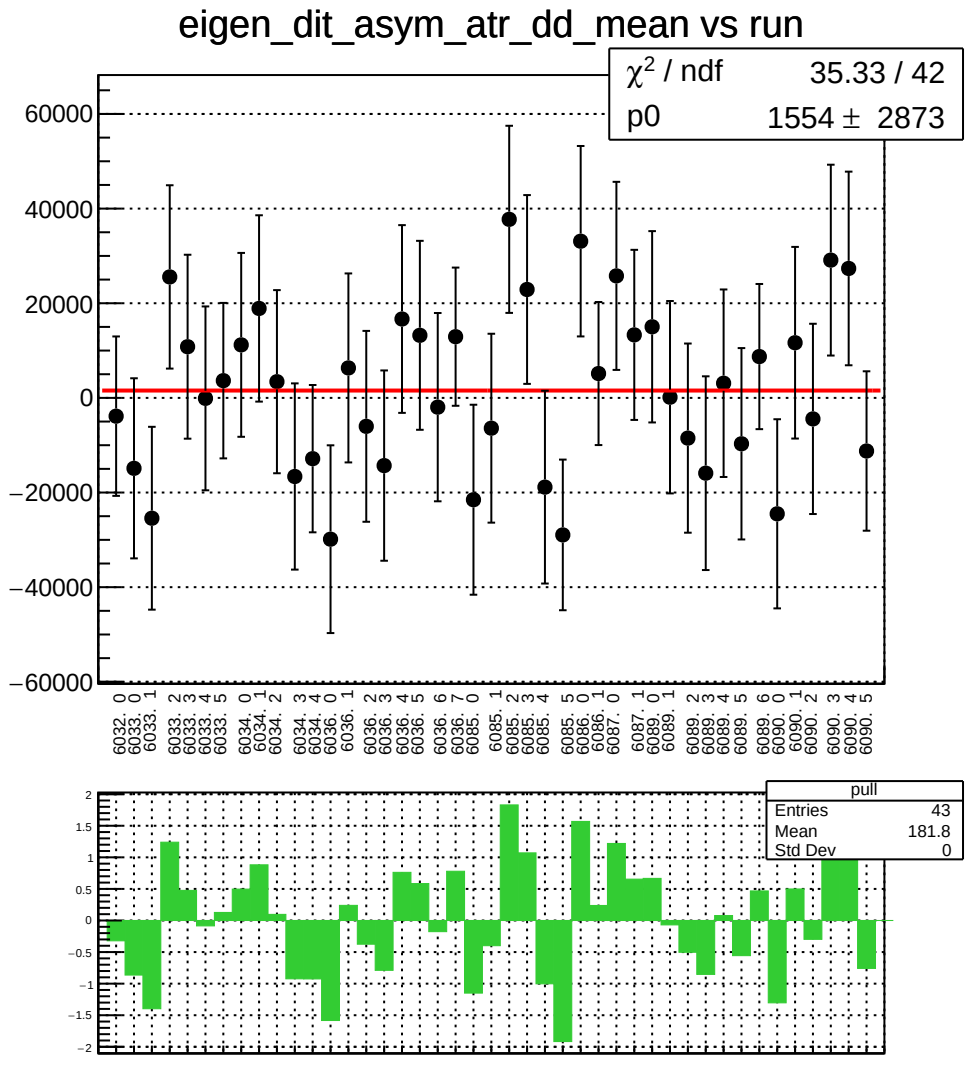
6090. 4
6090. 5


eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 35.33 / 42
p0 1554 ± 2873
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
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6089. 0
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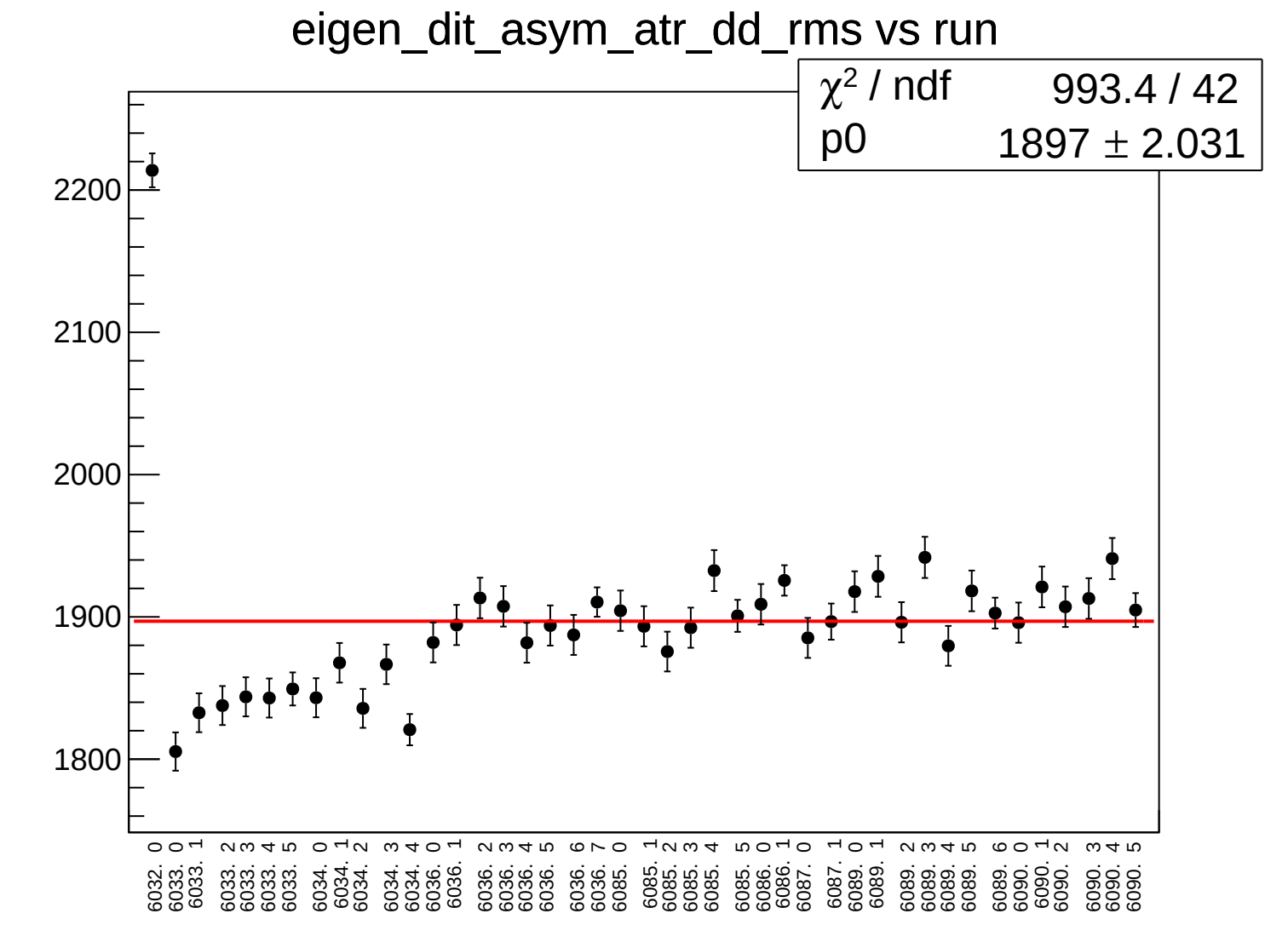
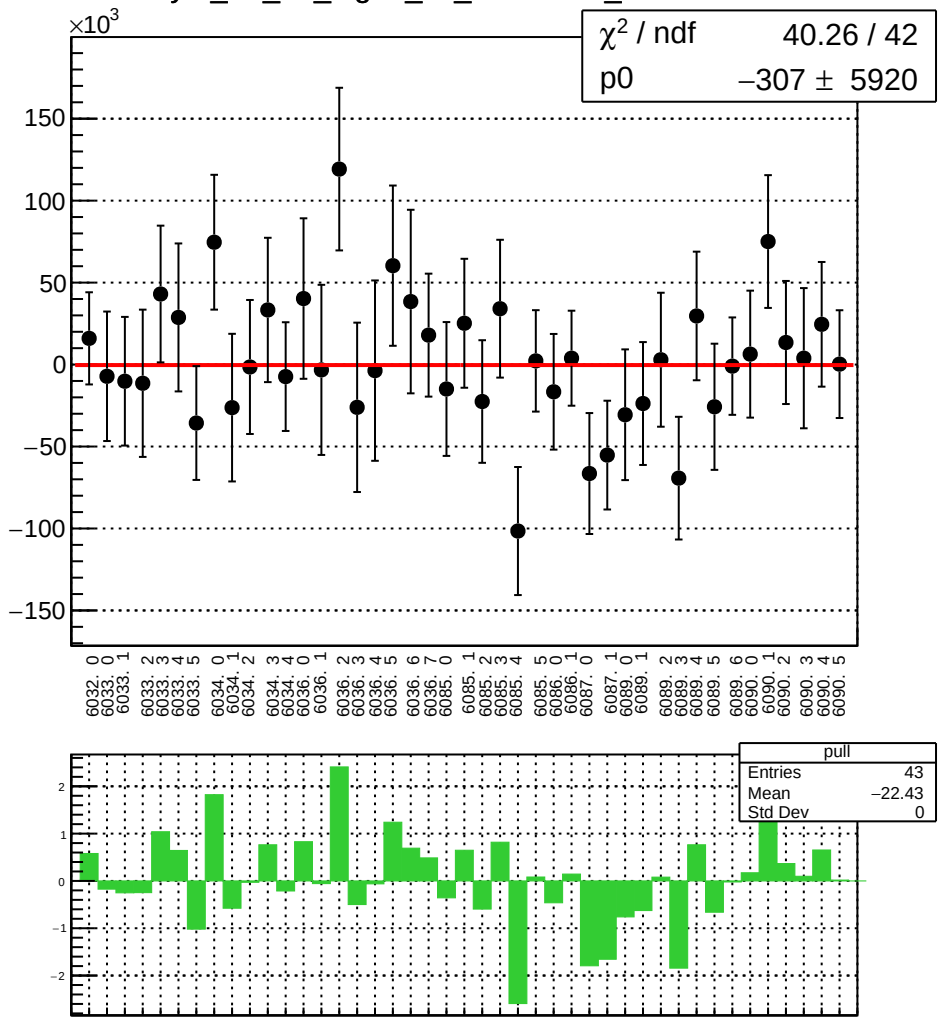
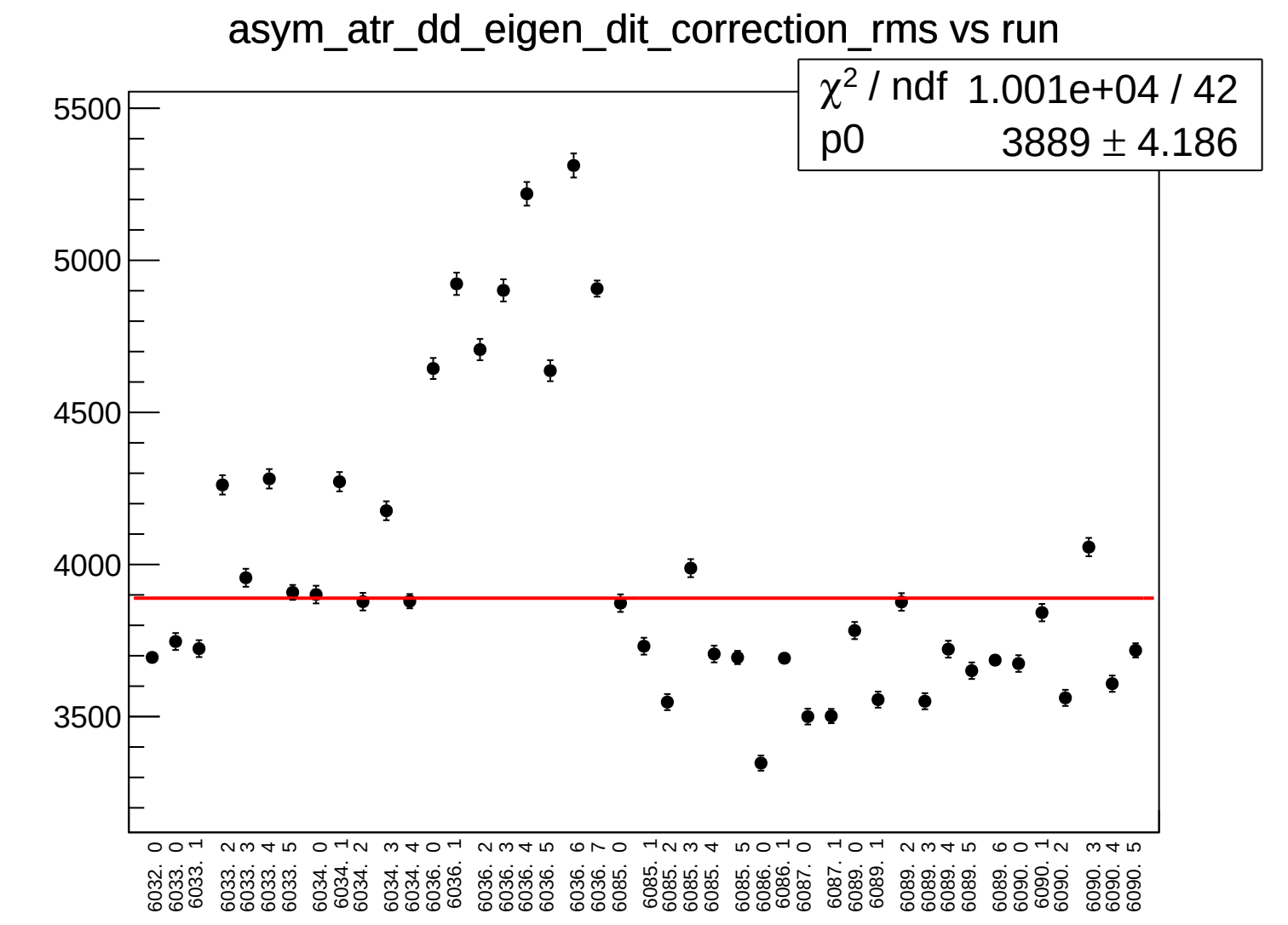
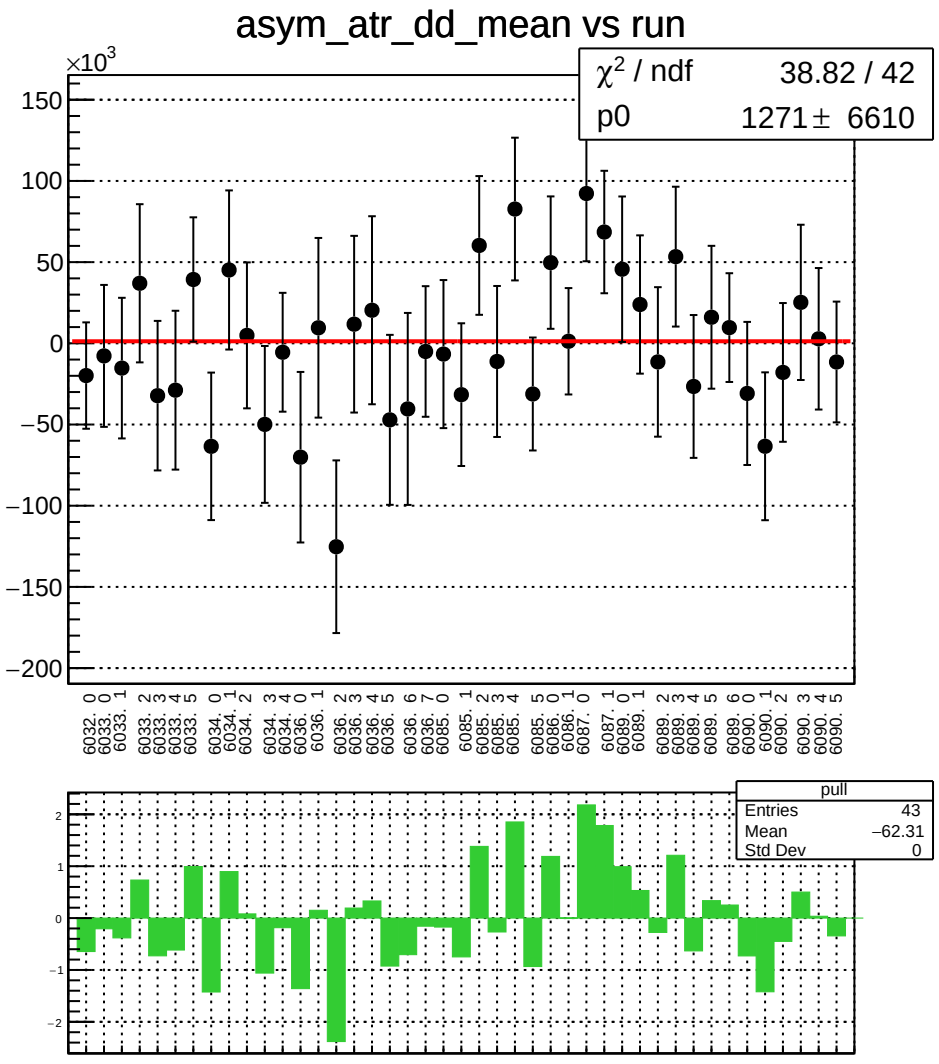
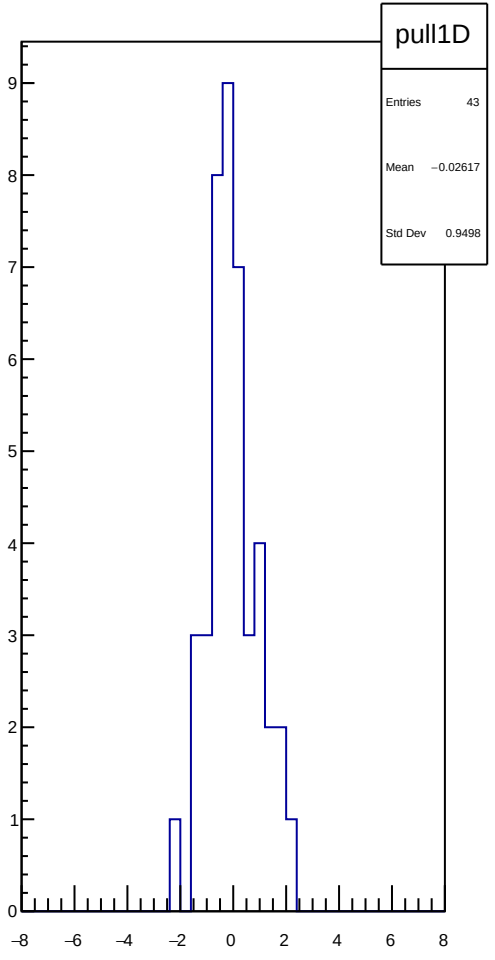
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 181.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.008229
Std Dev 0.9065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

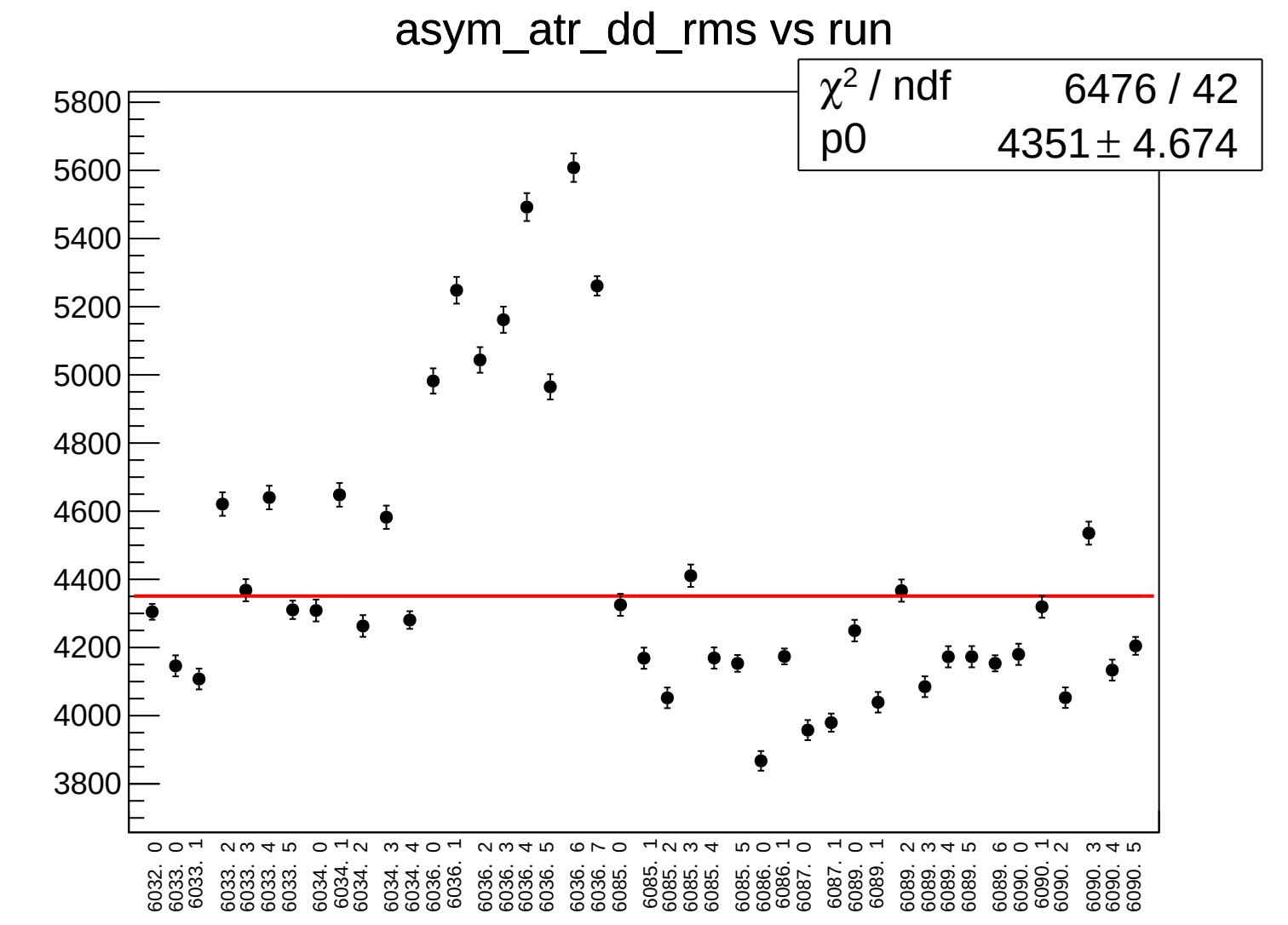

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 993.4 / 42
p0 1897 ± 2.031
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

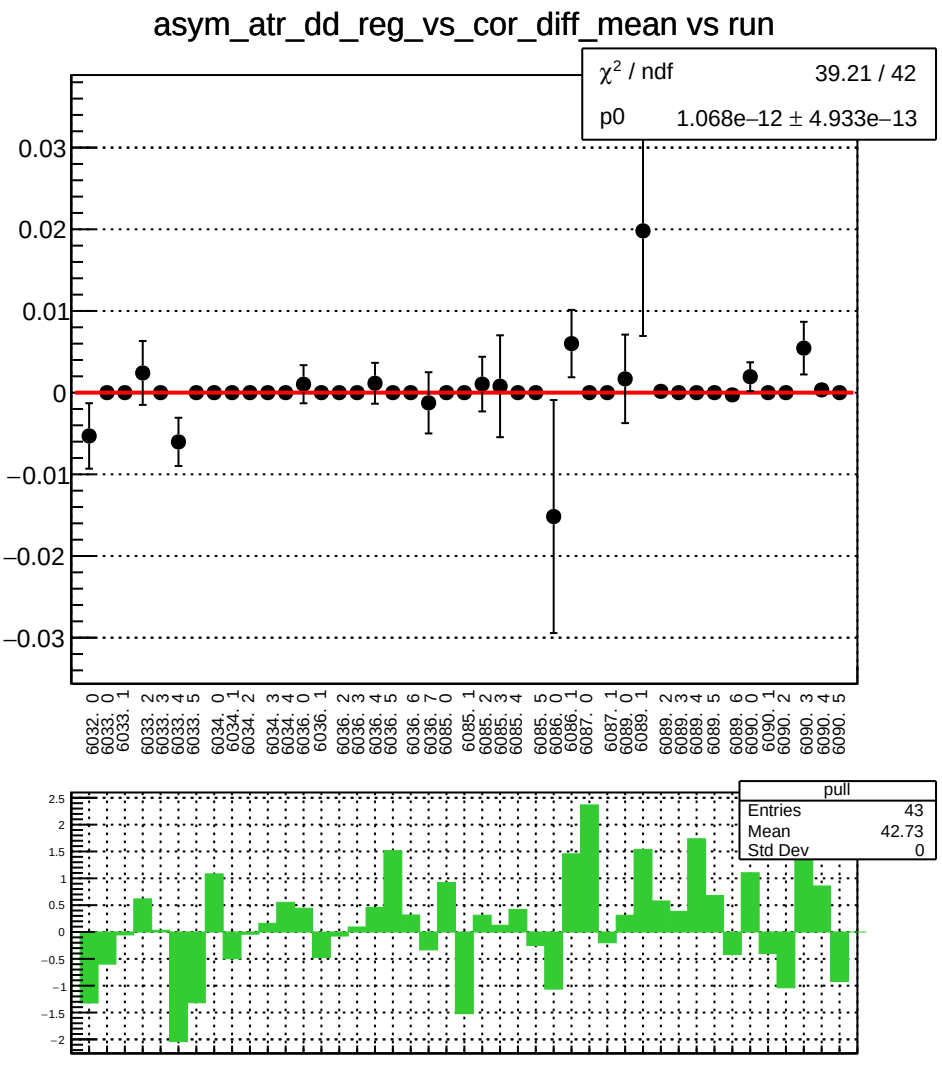

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 40.26 / 42
p0 −307 ± 5920
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −22.43
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04007
Std Dev 0.9667
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

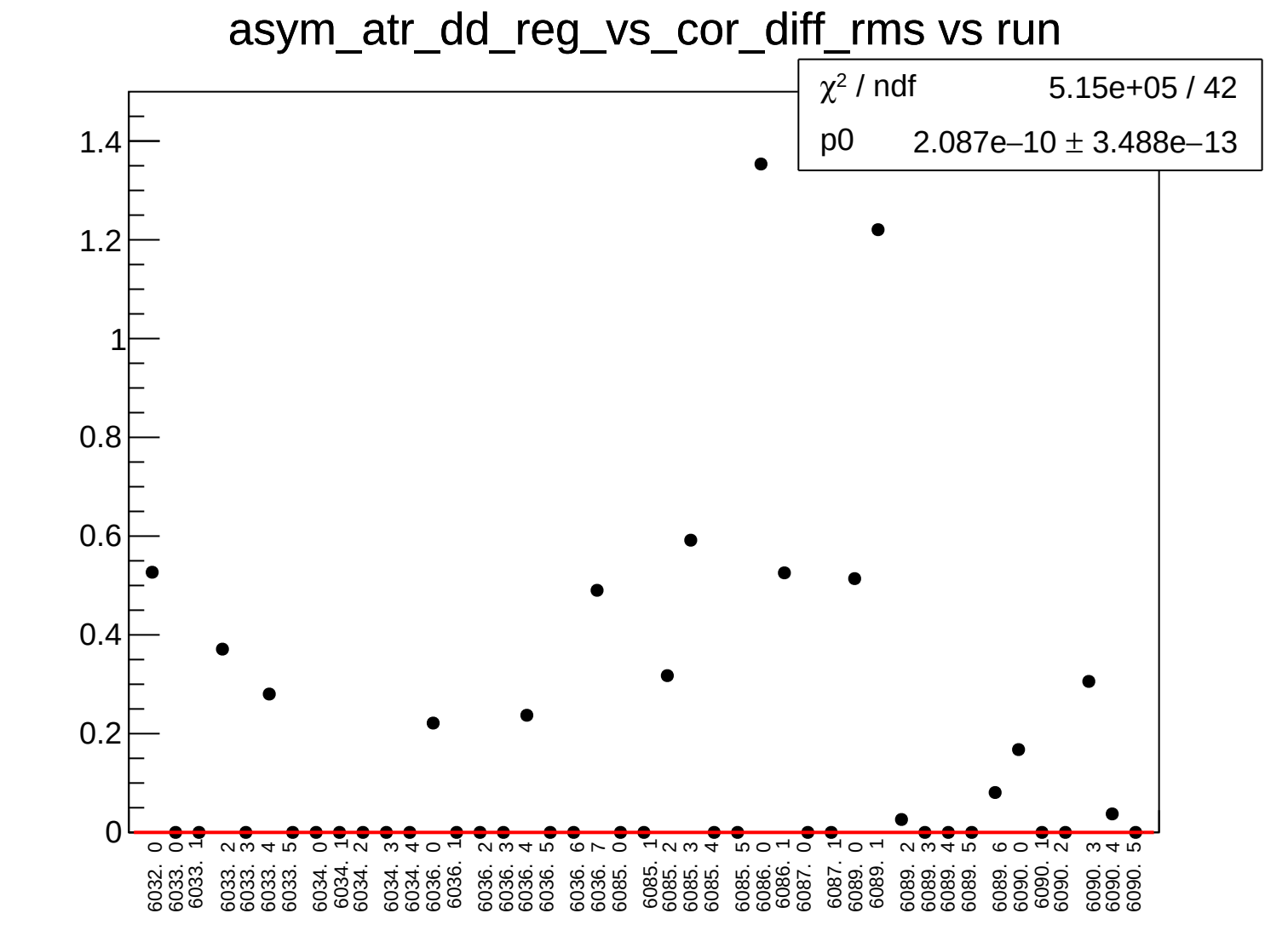

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.001e+04 / 42
p0 3889 ± 4.186
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

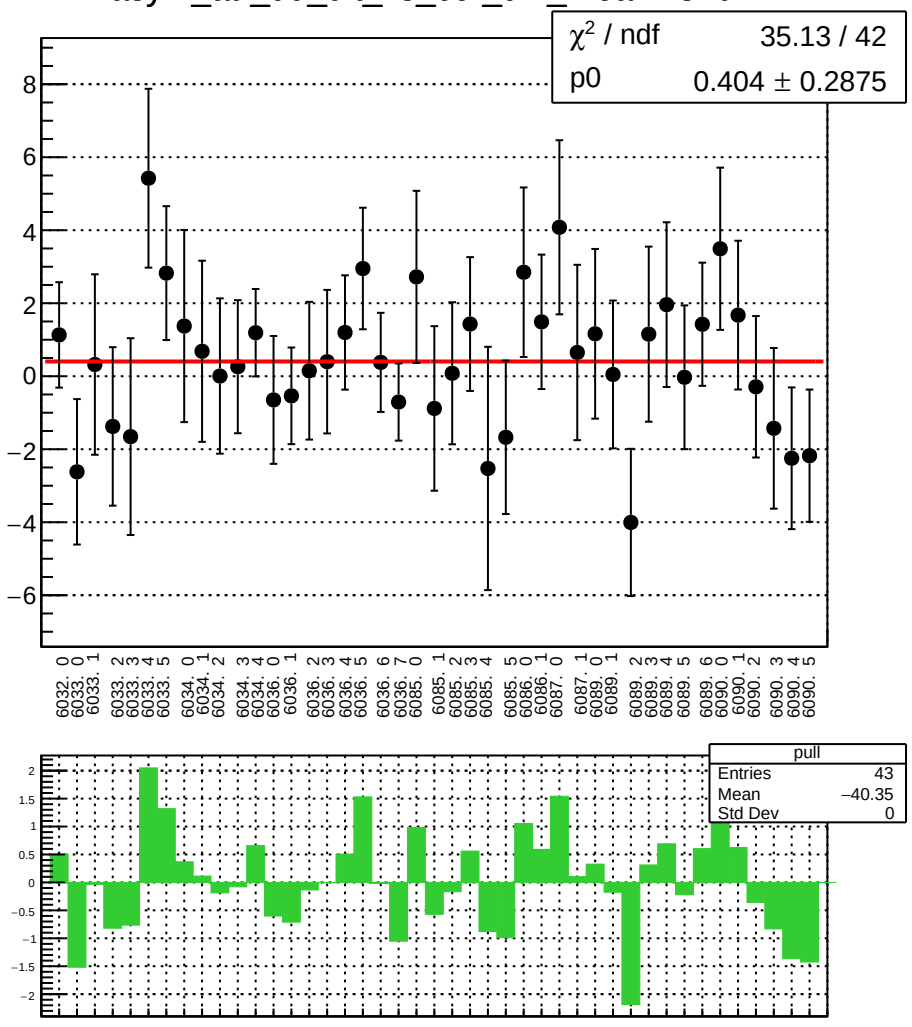

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 38.82 / 42
p0 1271 ± 6610
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −62.31
Std Dev 0
2
1
0
−1
−2

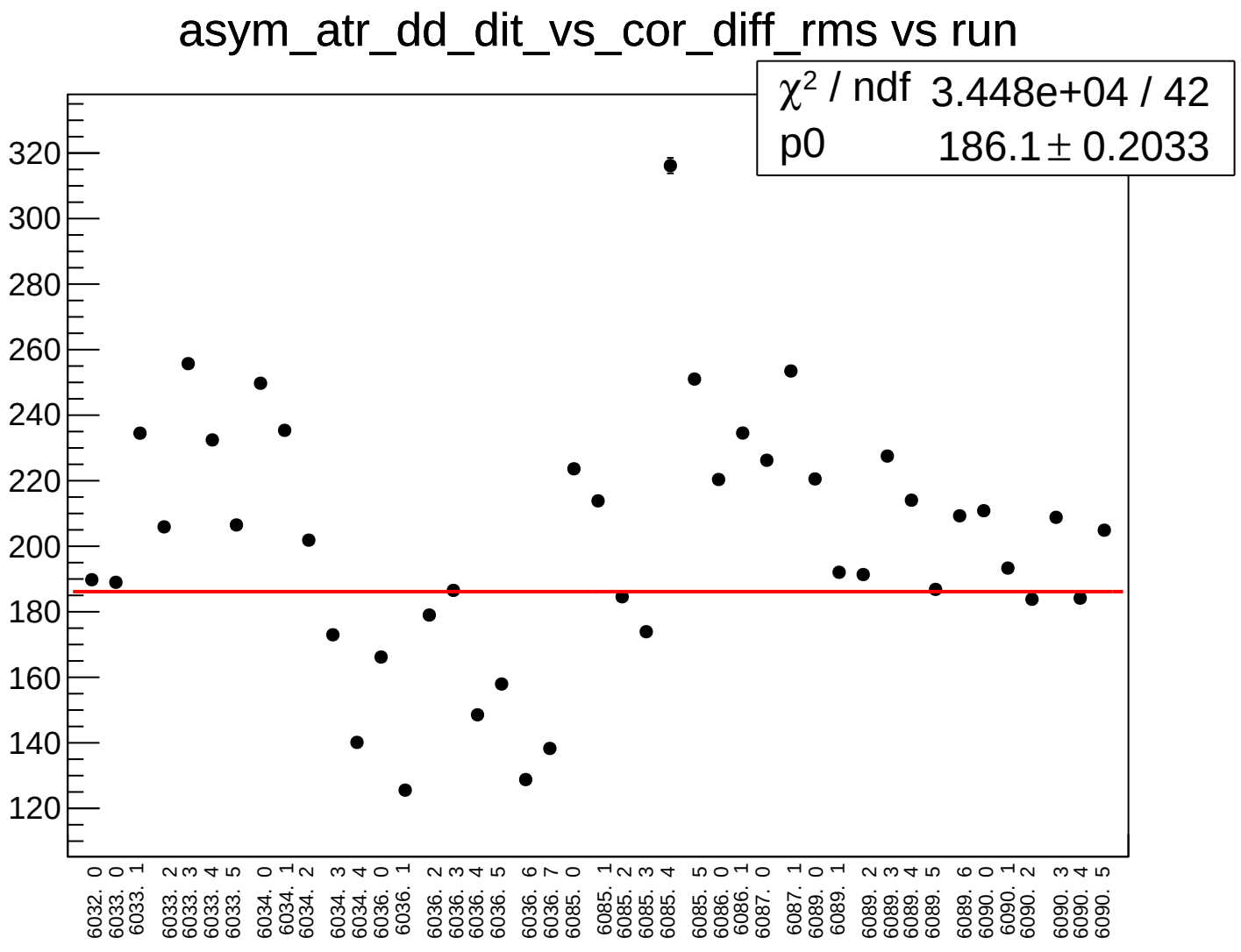

pull1D
Entries 43
Mean −0.02617
Std Dev 0.9498
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

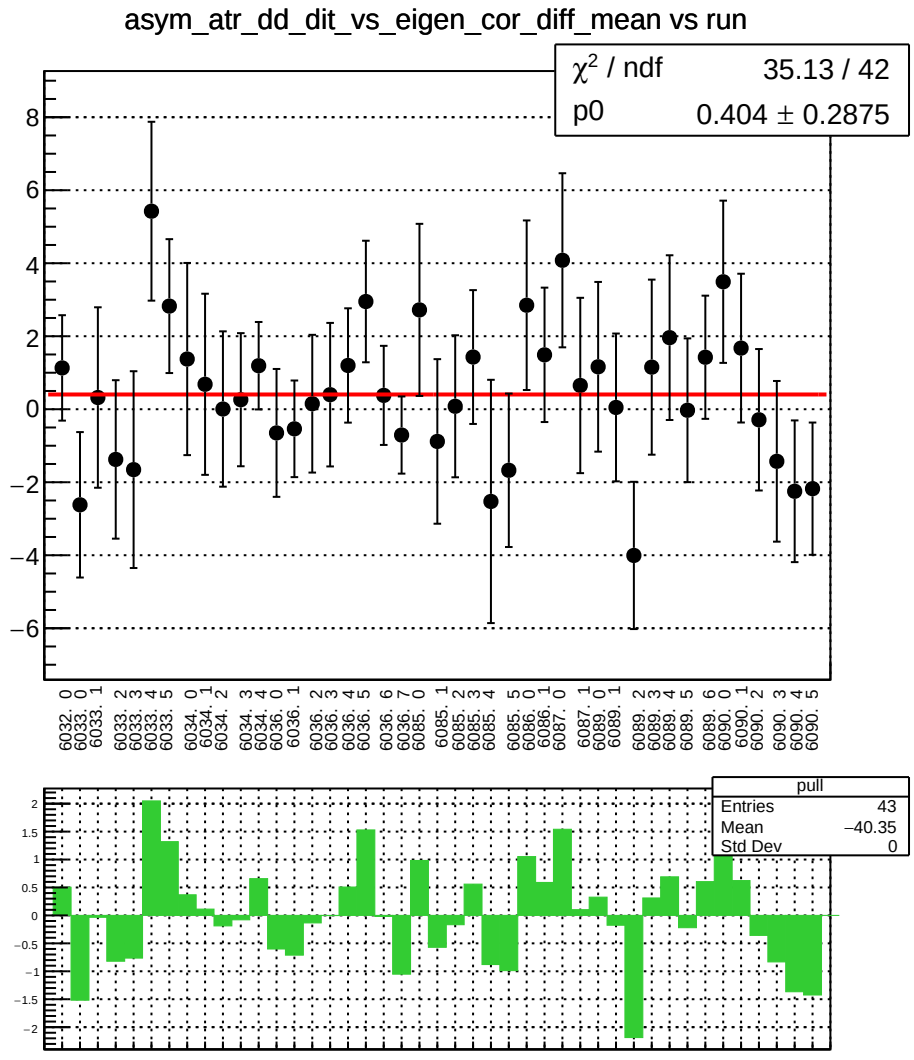

asym_atr_dd_rms vs run
χ² / ndf 6476 / 42
p0 4351 ± 4.674
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

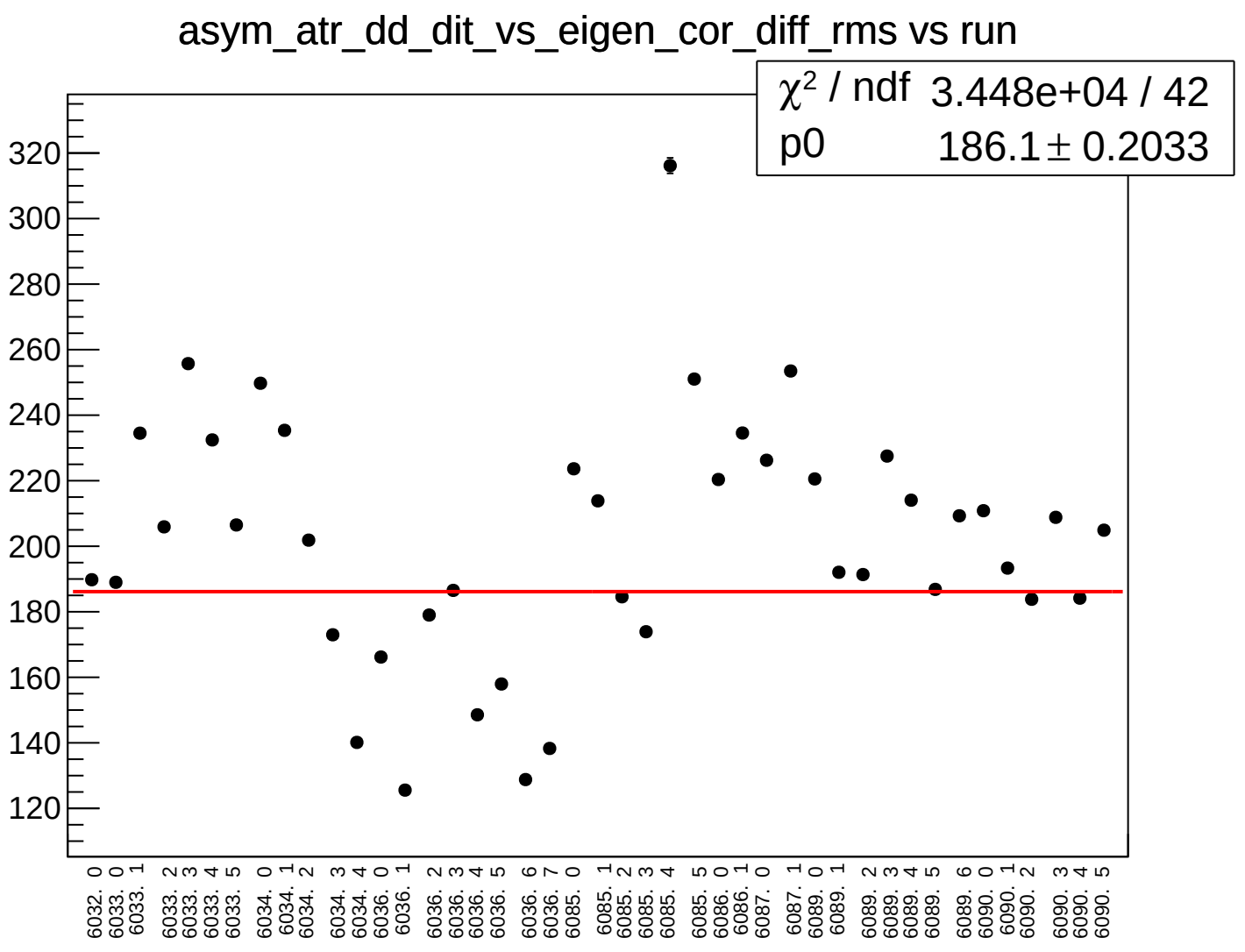

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.21 / 42
p0 1.068e−12 ± 4.933e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 42.73
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.167
Std Dev 0.9402
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

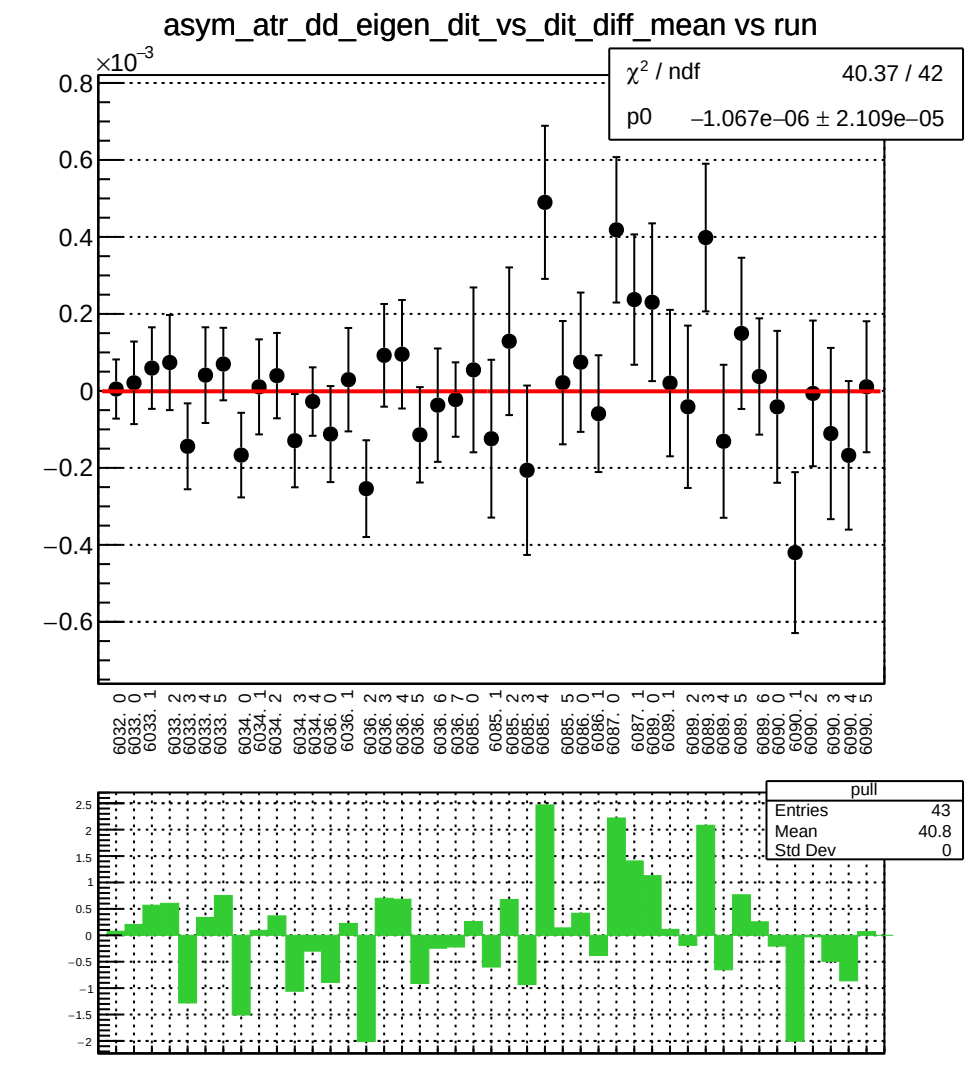

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.15e+05 / 42
p0 2.087e−10 ± 3.488e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

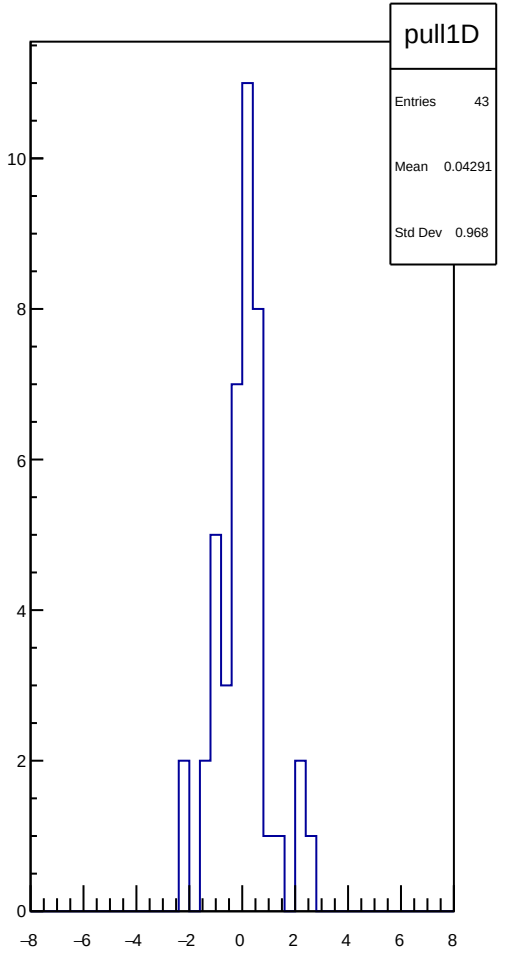

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.13 / 42
p0 0.404 ± 0.2875
pull
Entries 43
Mean −40.35
Std Dev 0
pull1D
Entries 43
Mean 0.0173
Std Dev 0.9037

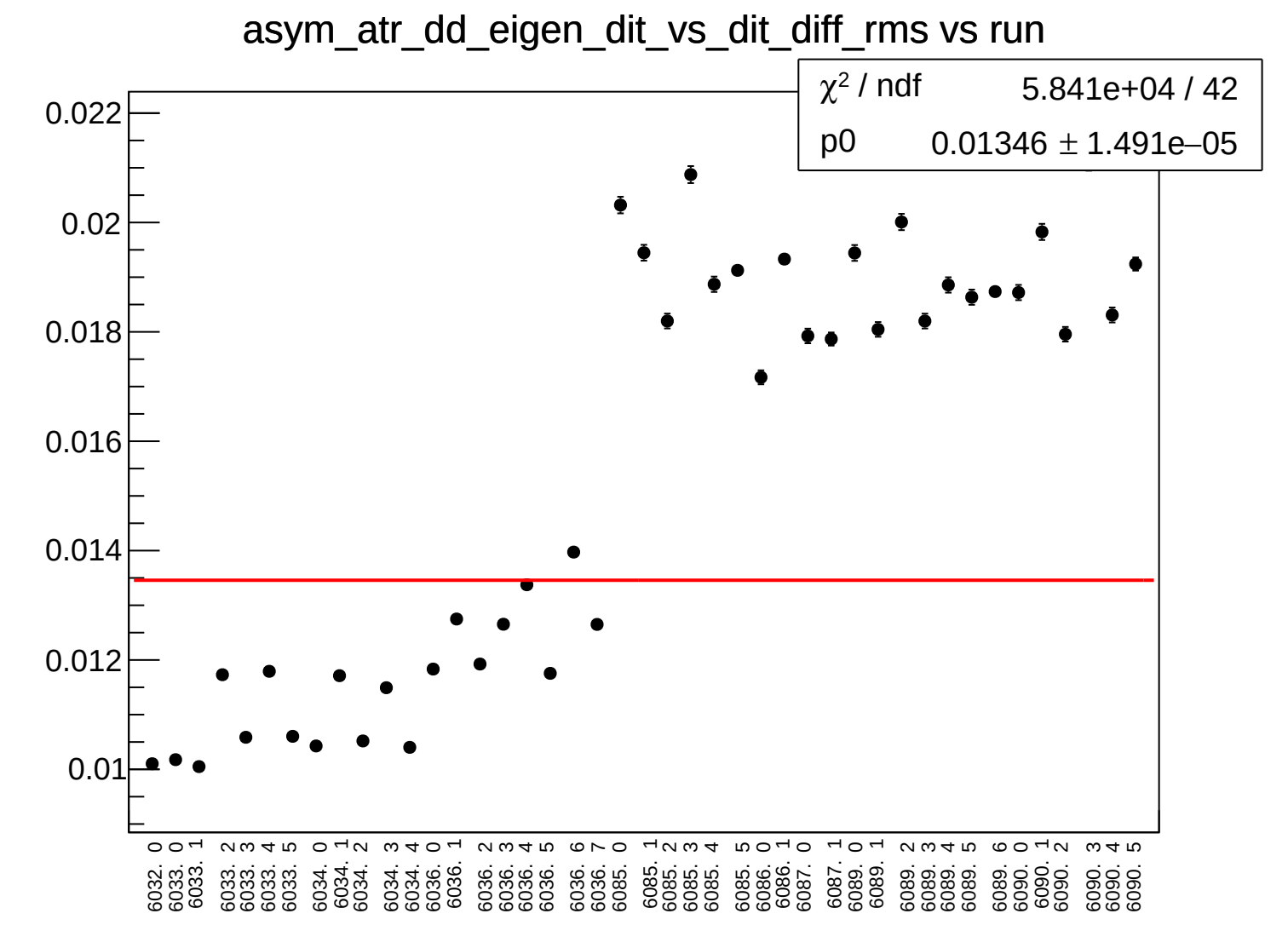

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.448e+04 / 42
p0 186.1 ± 0.2033
320
300
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

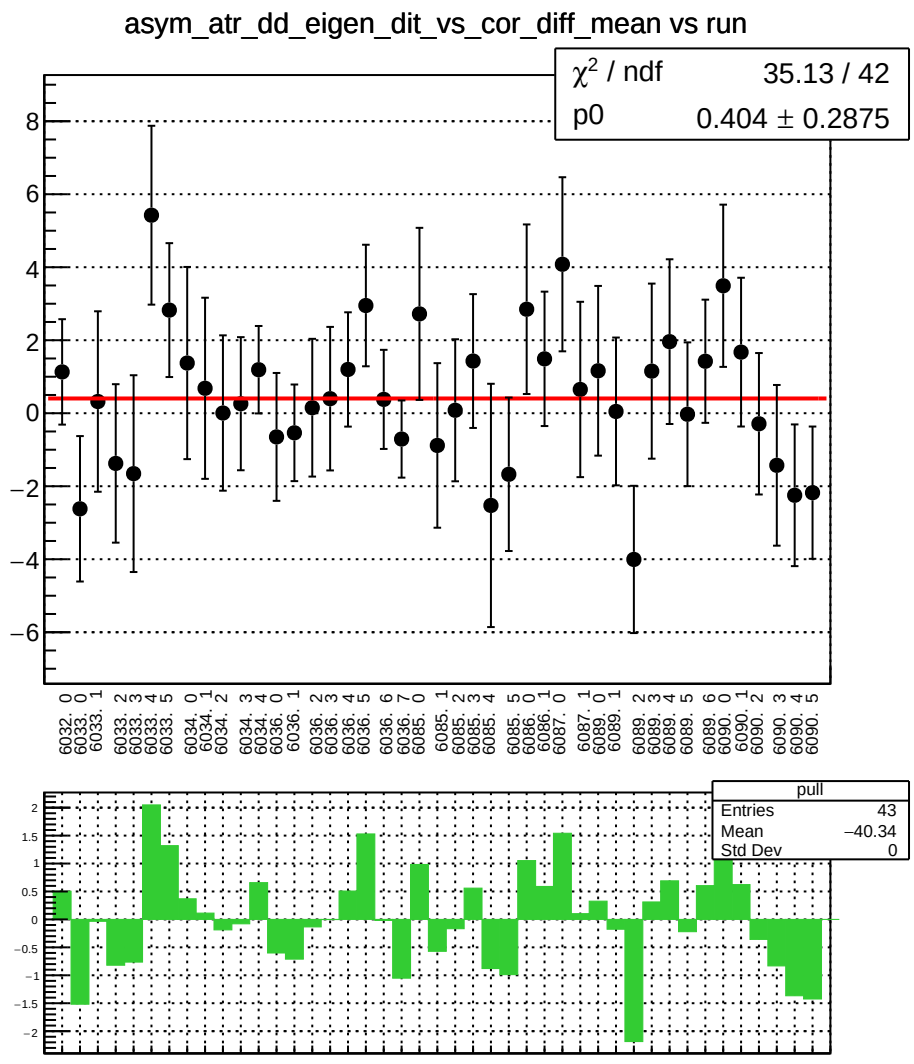

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.13 / 42
p0 0.404 ± 0.2875
pull
Entries 43
Mean −40.35
Std Dev 0
pull1D
Entries 43
Mean 0.0173
Std Dev 0.9037

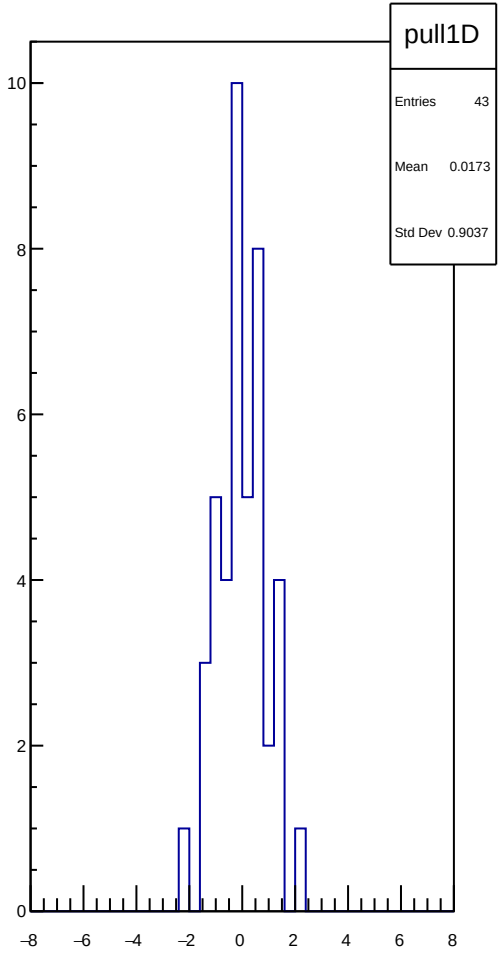

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.448e+04 / 42
p0 186.1 ± 0.2033
320
300
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

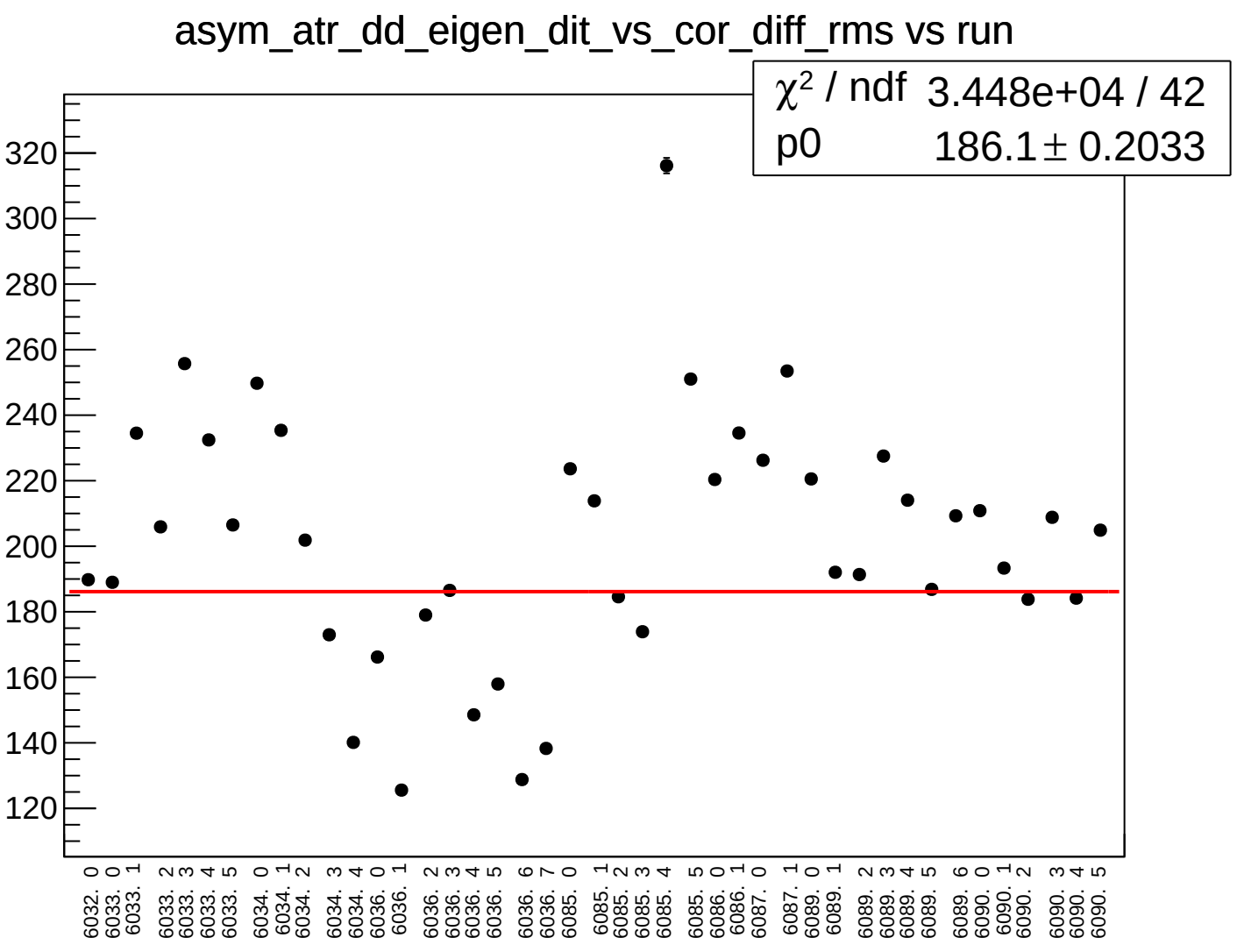

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.37 / 42
p0 −1.067e−06 ± 2.109e−05
pull
Entries 43
Mean 40.8
Std Dev 0


pull1D
Entries 43
Mean 0.04291
Std Dev 0.968


asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.841e+04 / 42
p0 0.01346 ± 1.491e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.13 / 42
p0 0.404 ± 0.2875
pull
Entries 43
Mean −40.34
Std Dev 0


pull1D
Entries 43
Mean 0.0173
Std Dev 0.9037


asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.448e+04 / 42
p0 186.1 ± 0.2033
320
300
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
6090. 0
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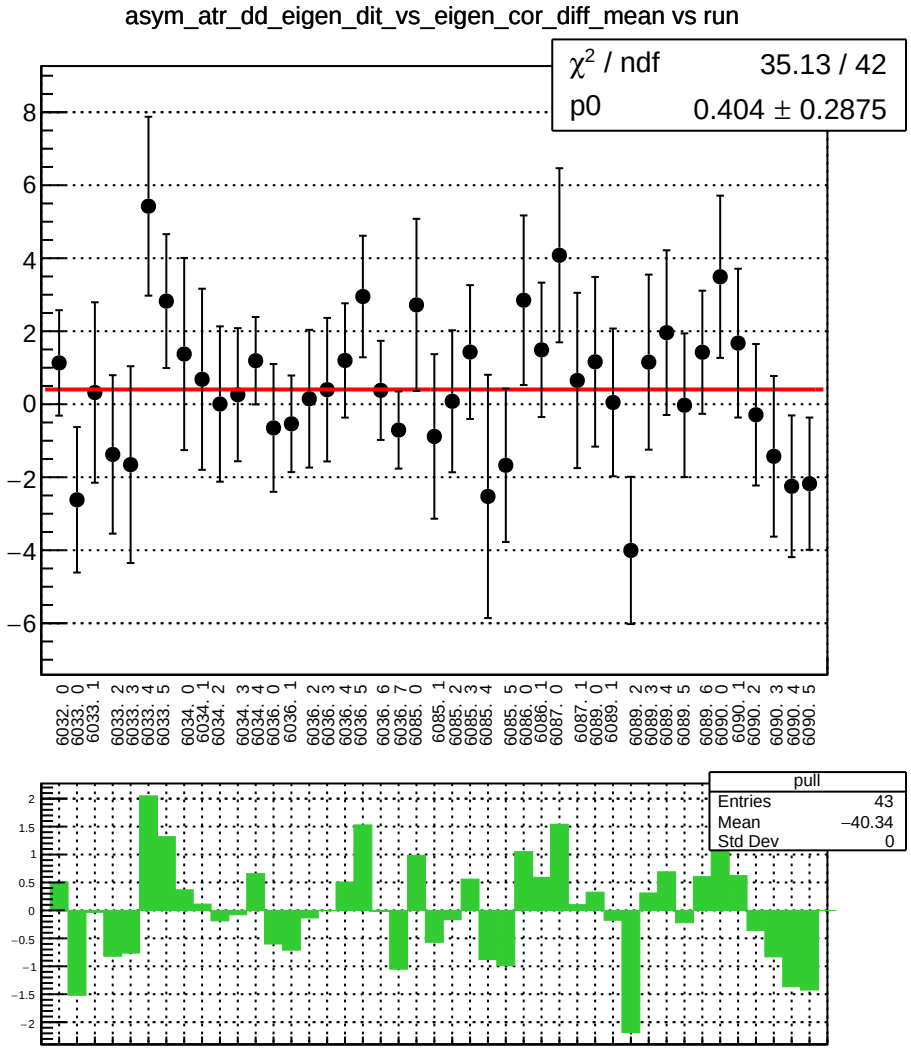
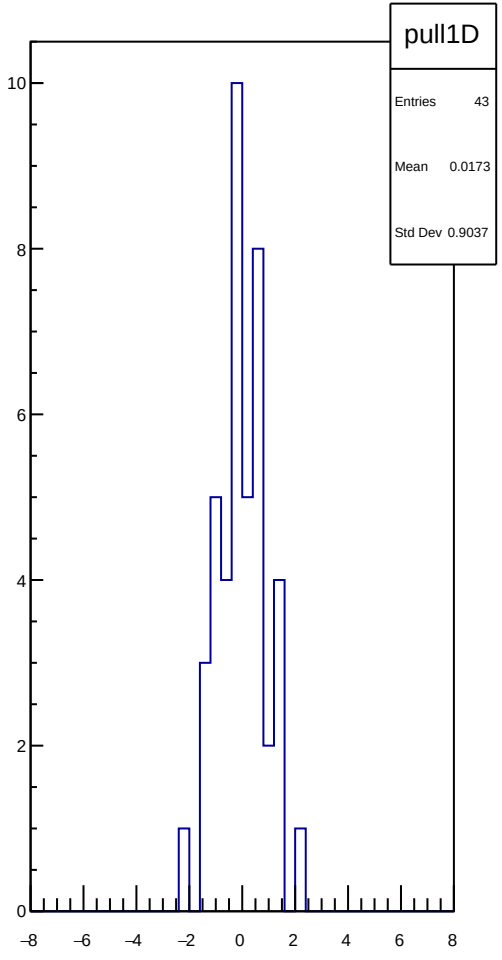
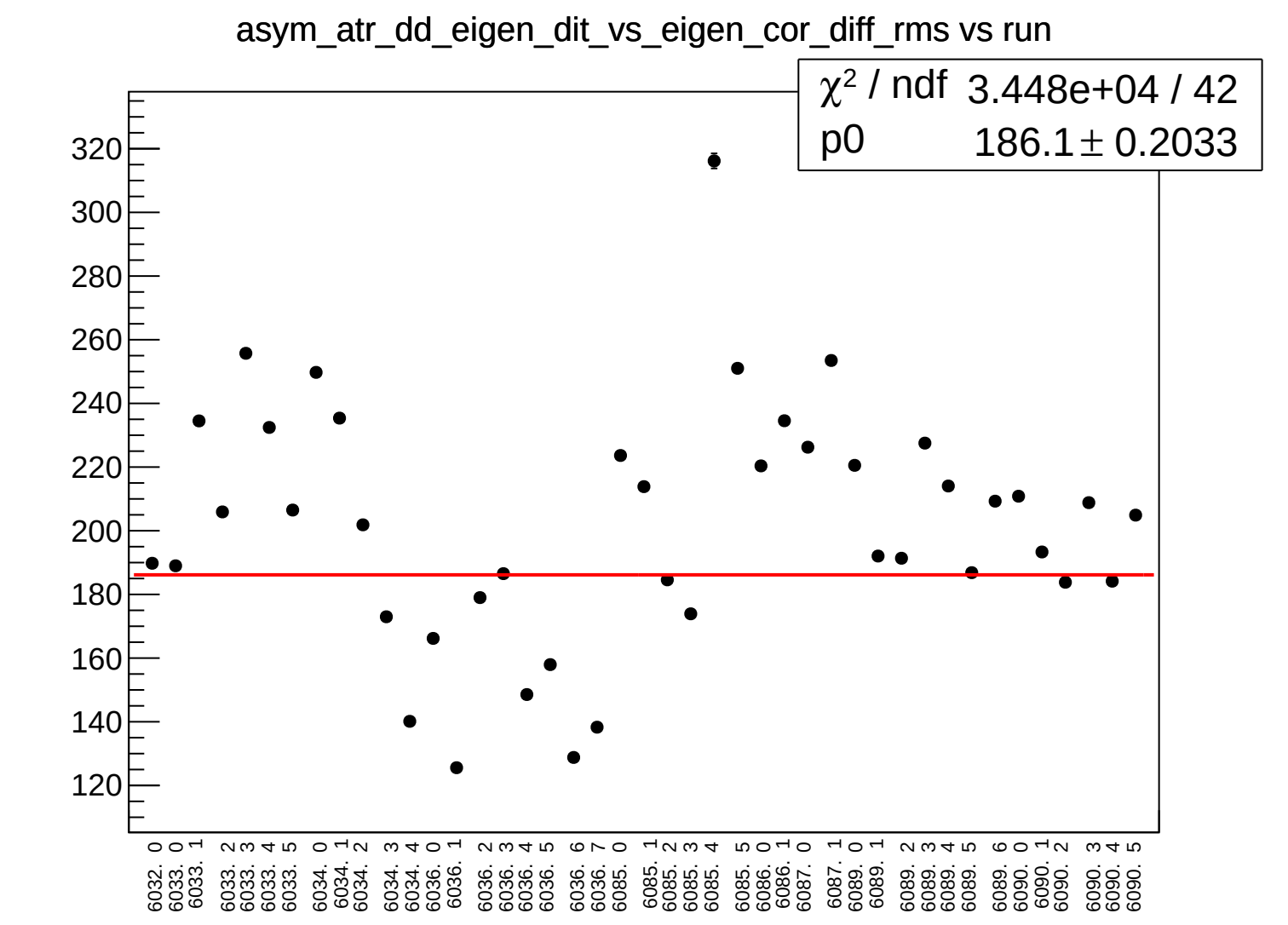
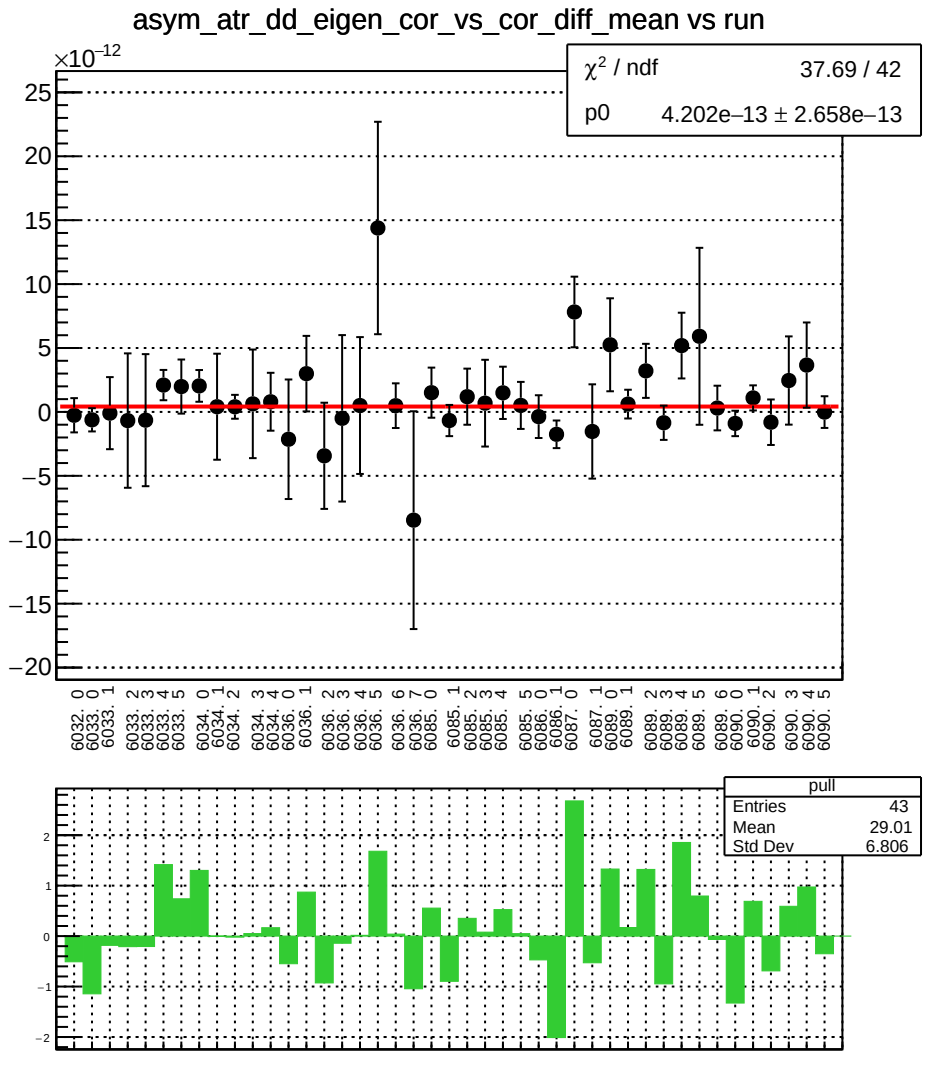
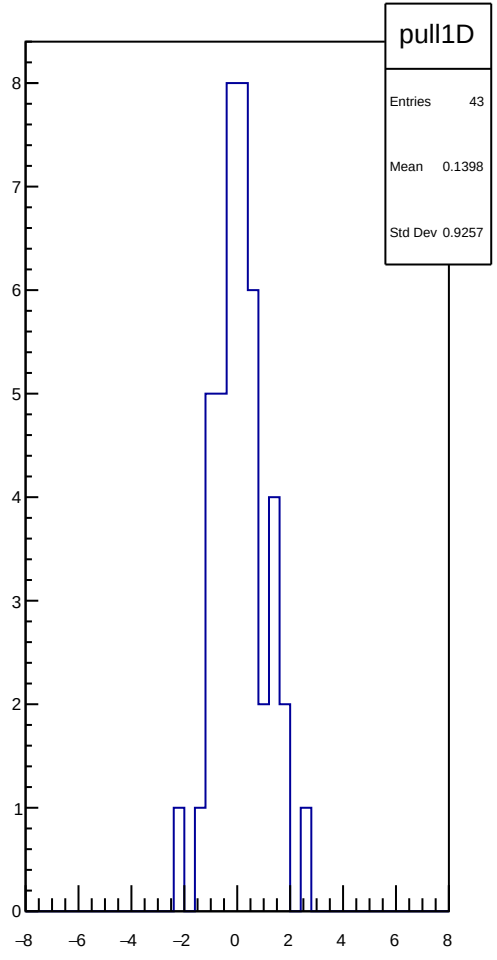
6090. 2
6090. 3
6090. 4
6090. 5

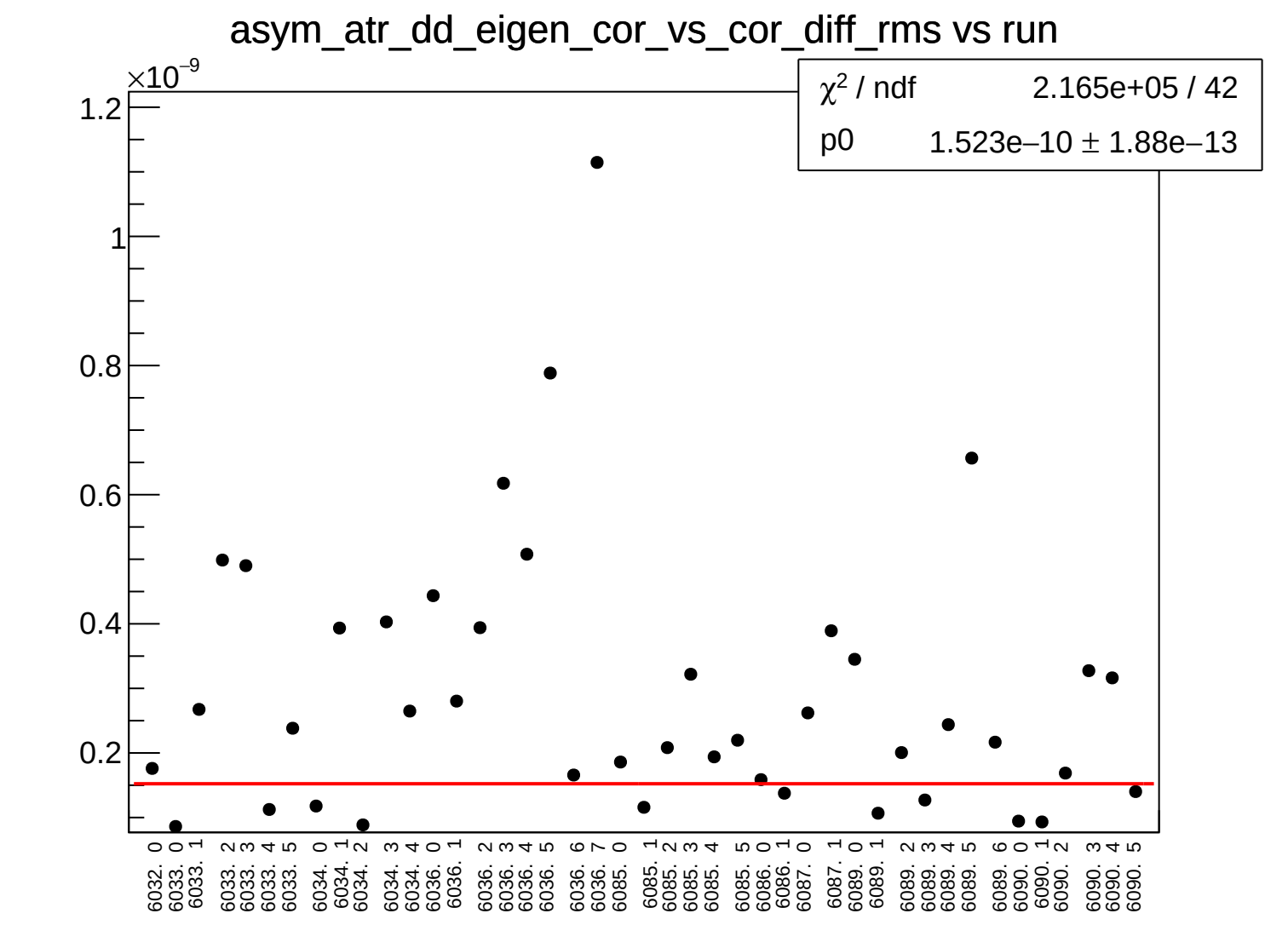

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.13 / 42
p0 0.404 ± 0.2875
pull
Entries 43
Mean −40.34
Std Dev 0

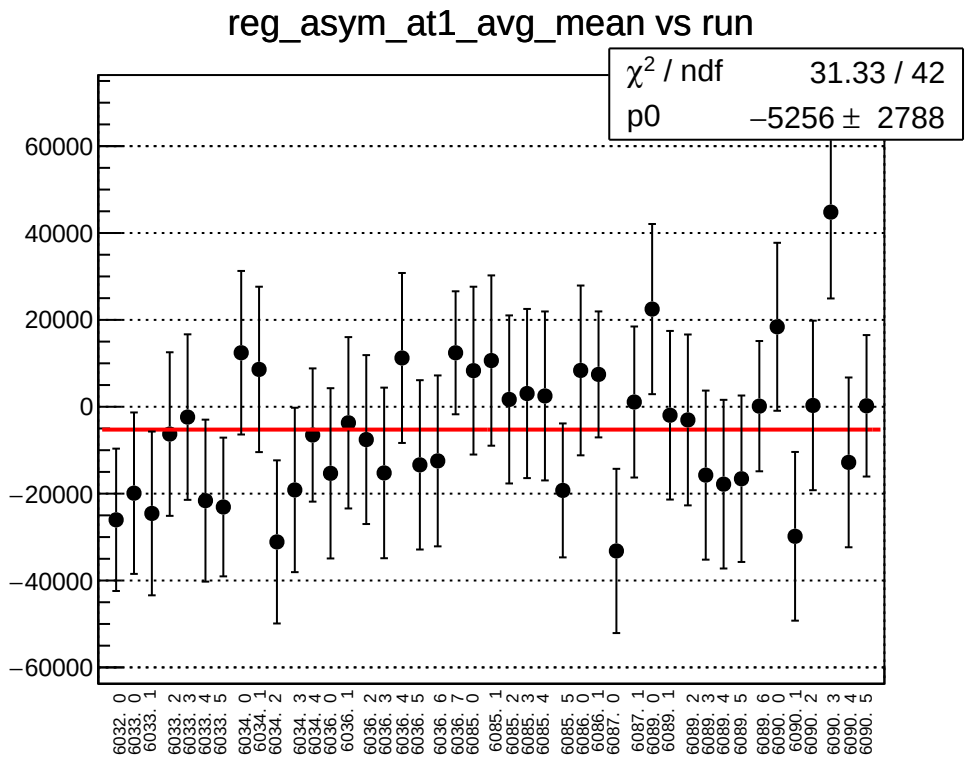

pull1D
Entries 43
Mean 0.0173
Std Dev 0.9037

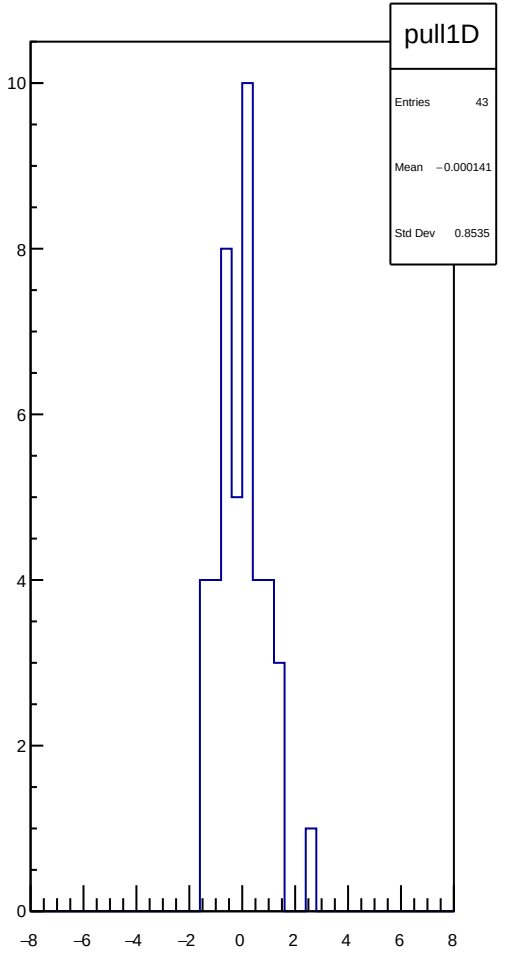

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.448e+04 / 42
p0 186.1 ± 0.2033
320
300
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

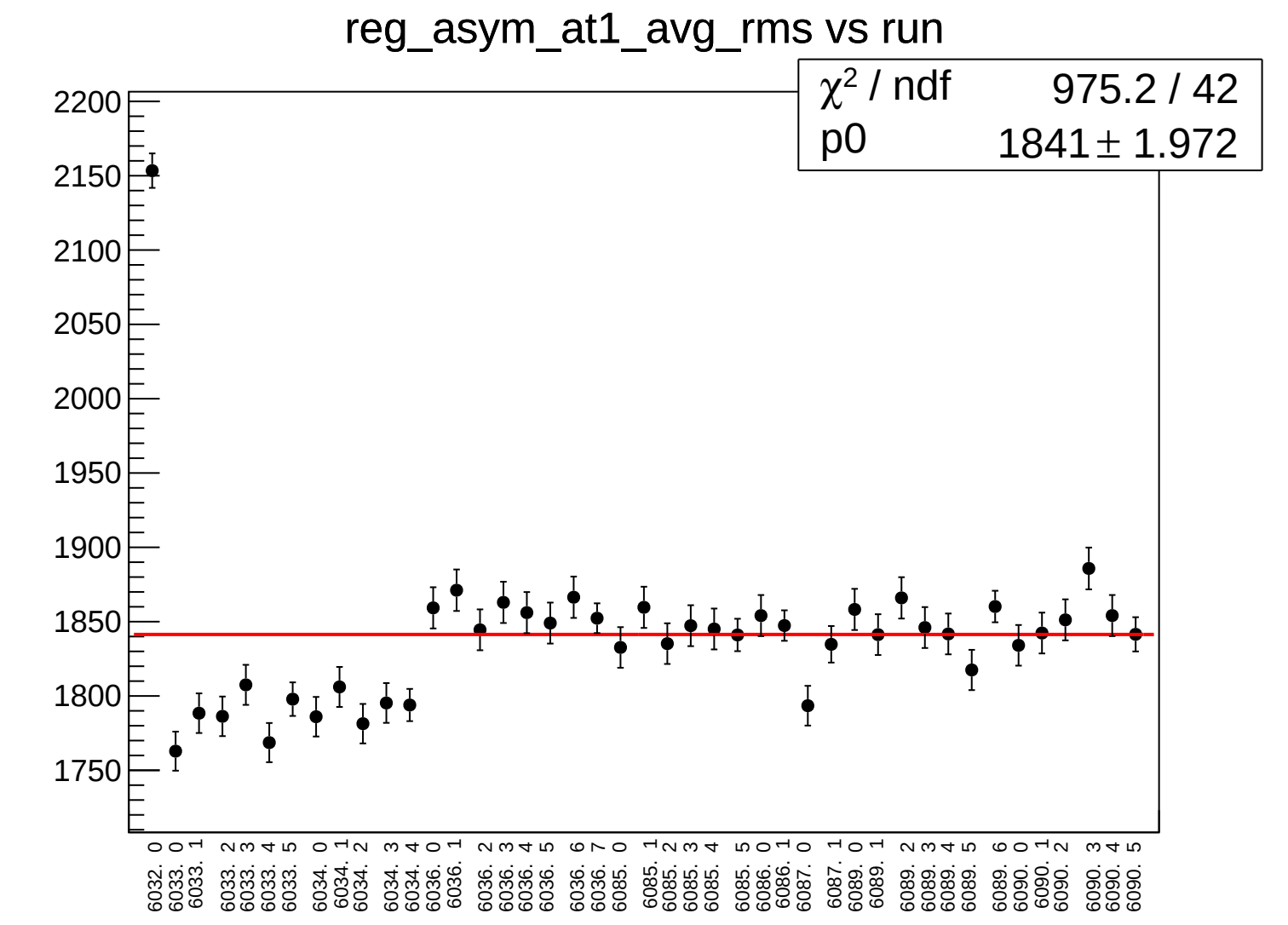

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.69 / 42
p0 4.202e−13 ± 2.658e−13
pull
Entries 43
Mean 29.01
Std Dev 6.806

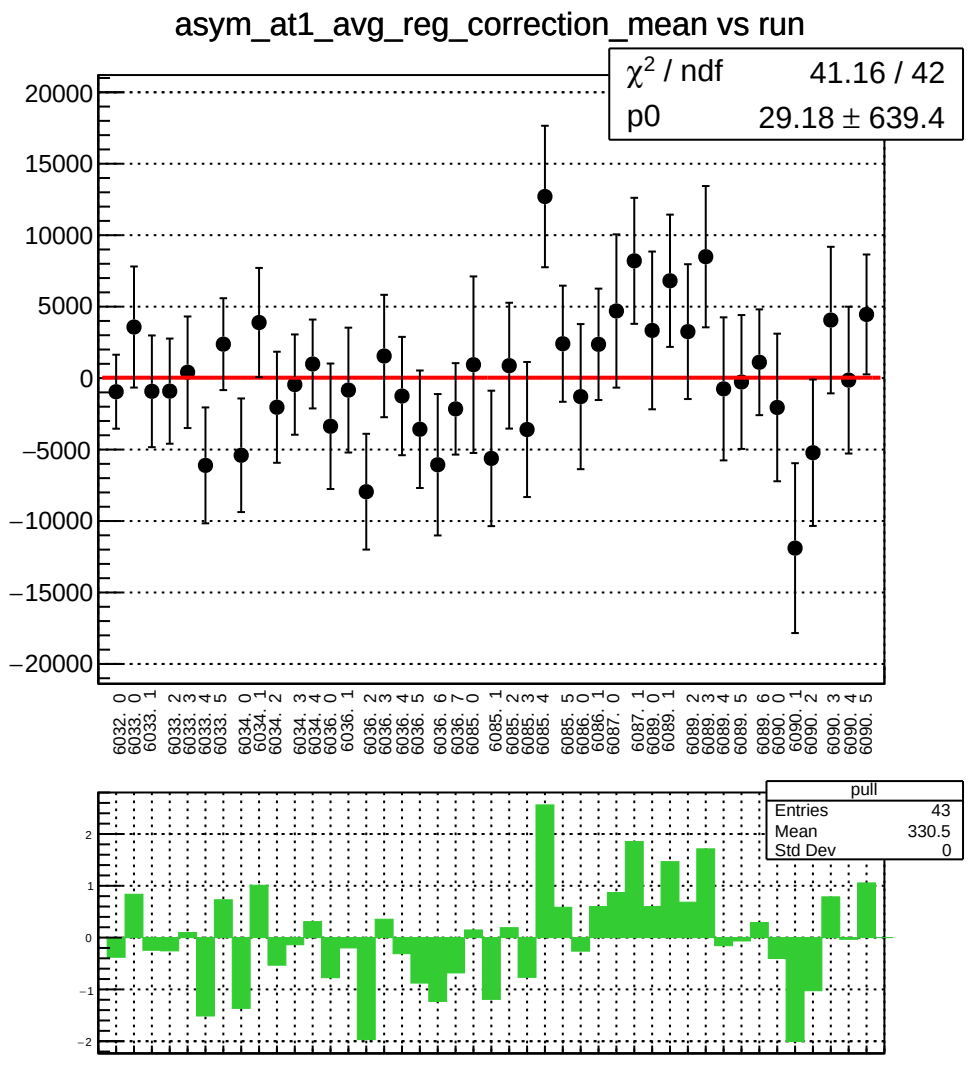

pull1D
Entries 43
Mean 0.1398
Std Dev 0.9257

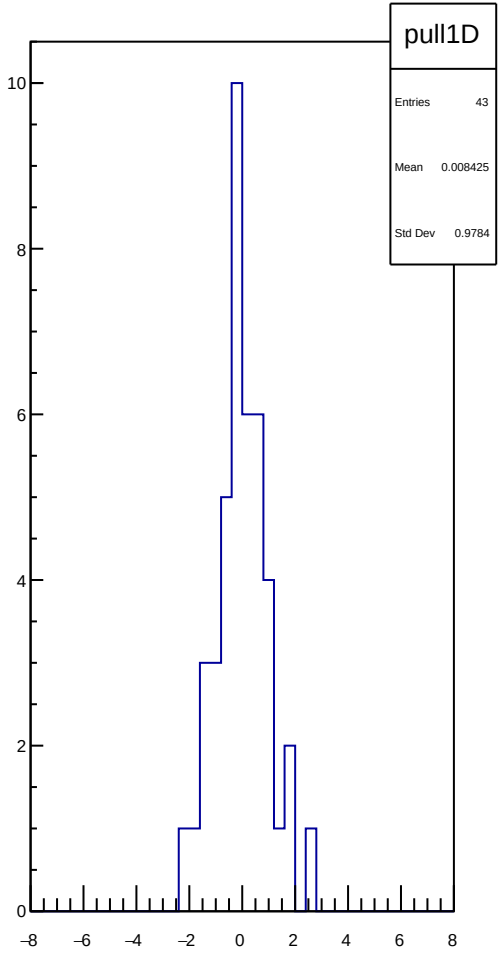

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.165e+05 / 42
p0 1.523e−10 ± 1.88e−13
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

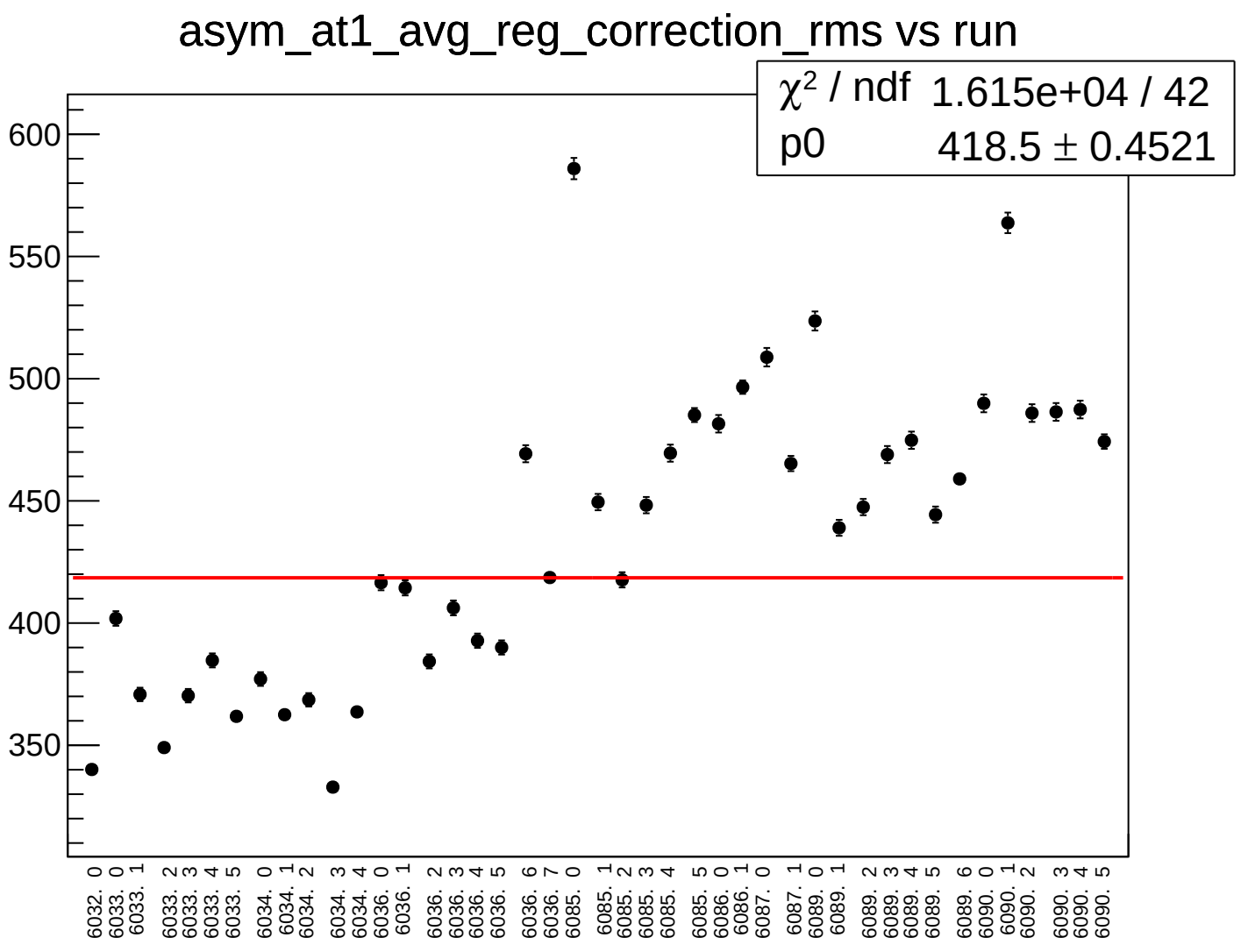

reg_asym_at1_avg_mean vs run
χ² / ndf 31.33 / 42
p0 −5256 ± 2788
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.397e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

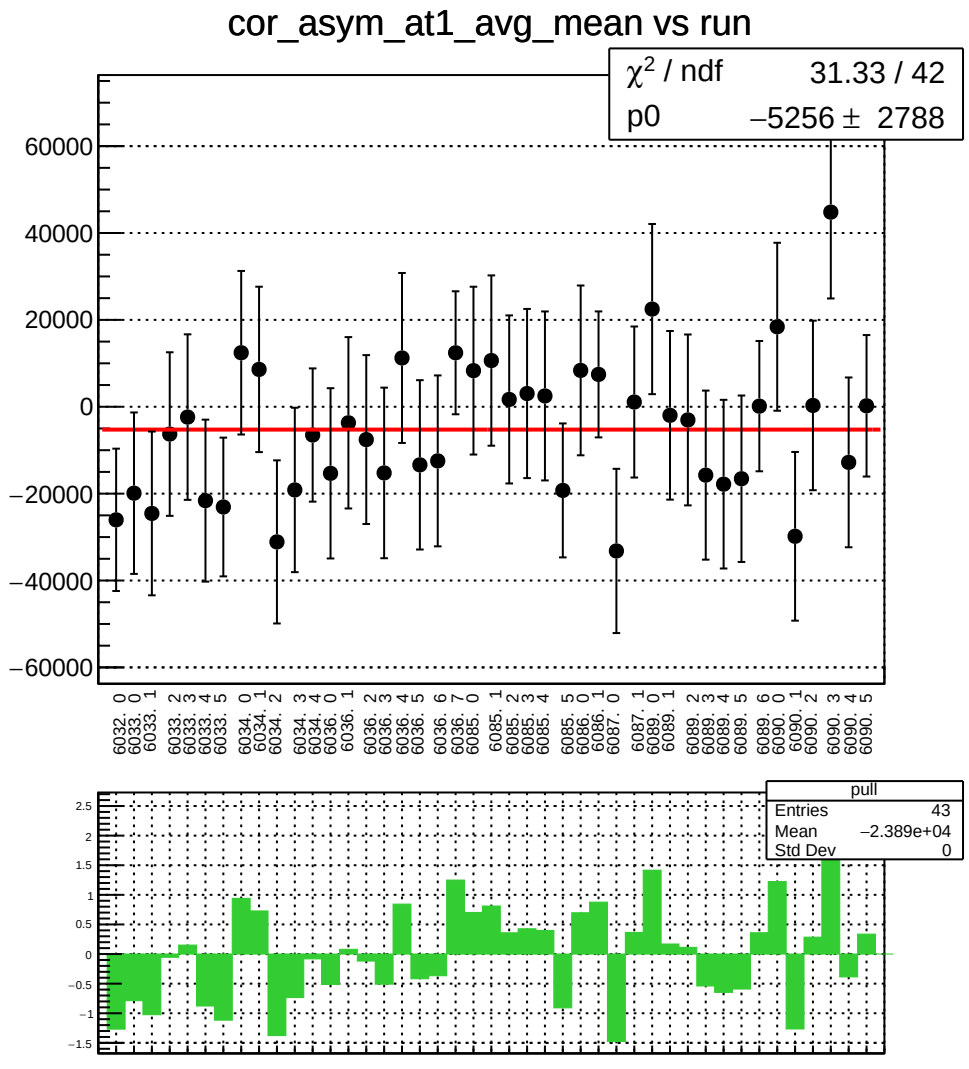

pull1D
Entries 43
Mean −0.000141
Std Dev 0.8535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

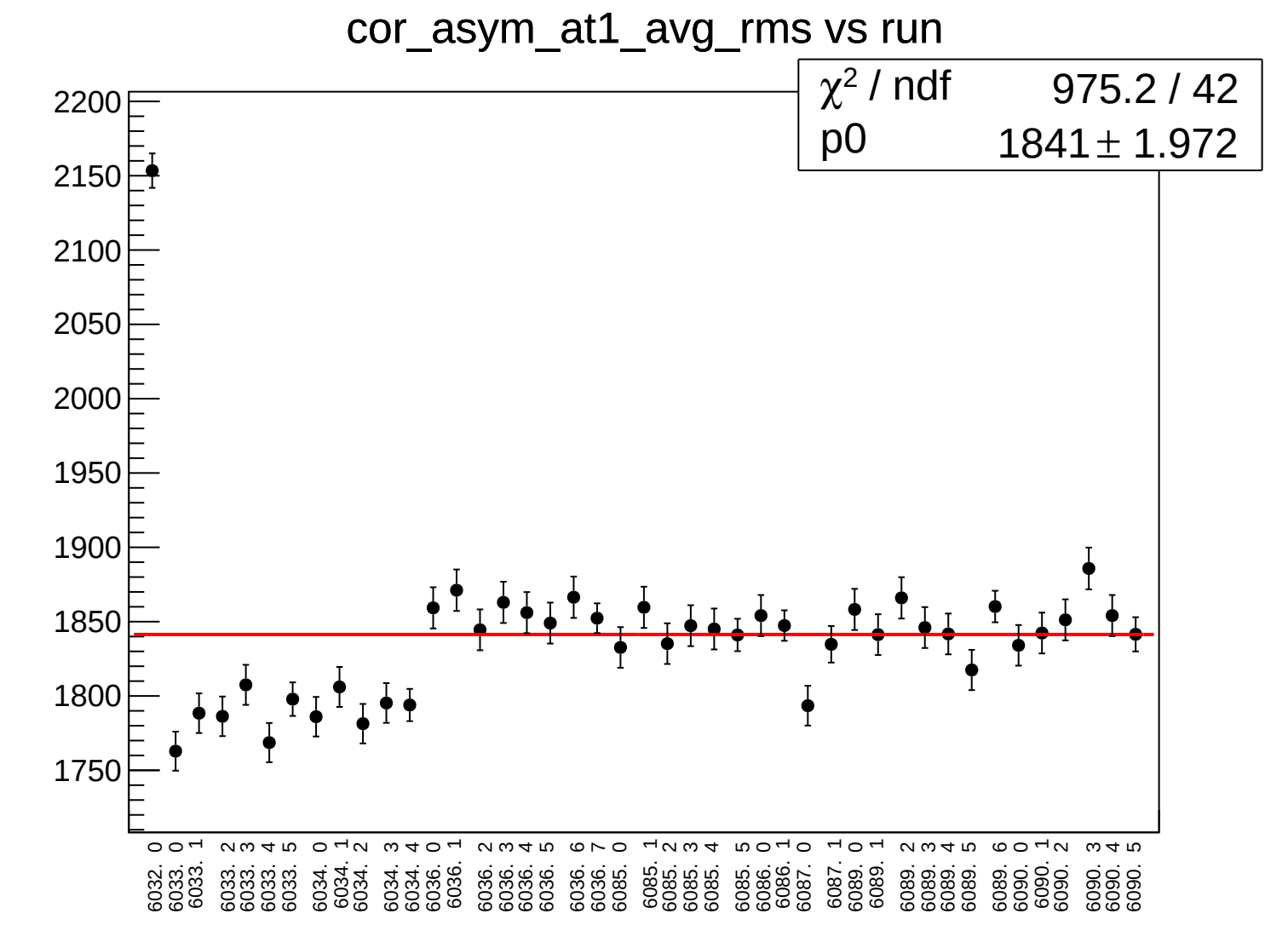

reg_asym_at1_avg_rms vs run
χ² / ndf 975.2 / 42
p0 1841 ± 1.972
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

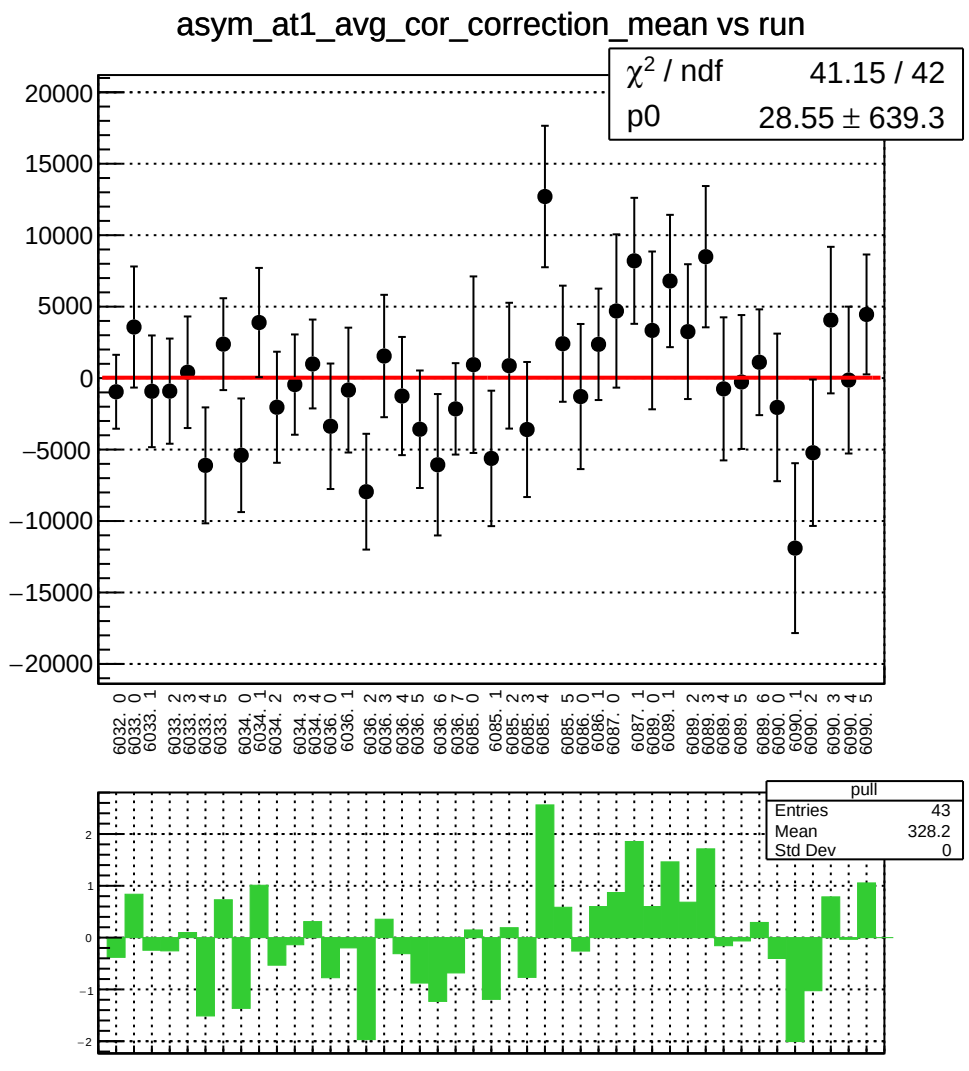

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 41.16 / 42
p0 29.18 ± 639.4
pull
Entries 43
Mean 330.5
Std Dev 0

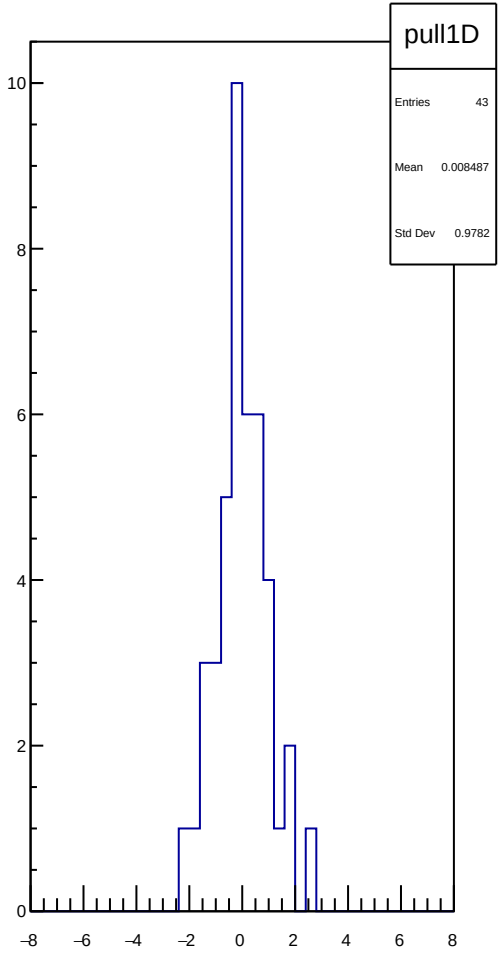

pull1D
Entries 43
Mean 0.008425
Std Dev 0.9784

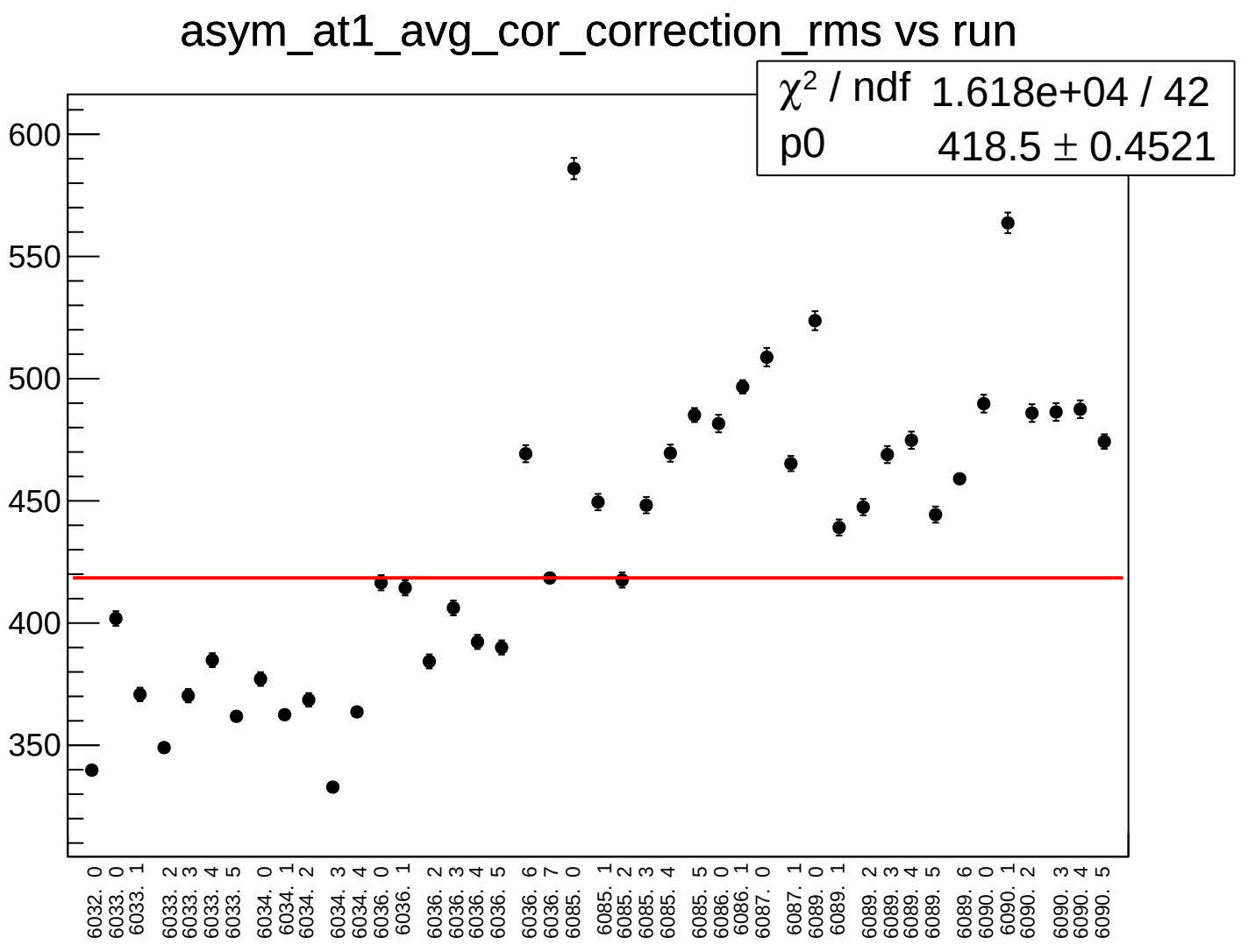

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.615e+04 / 42
p0 418.5 ± 0.4521
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

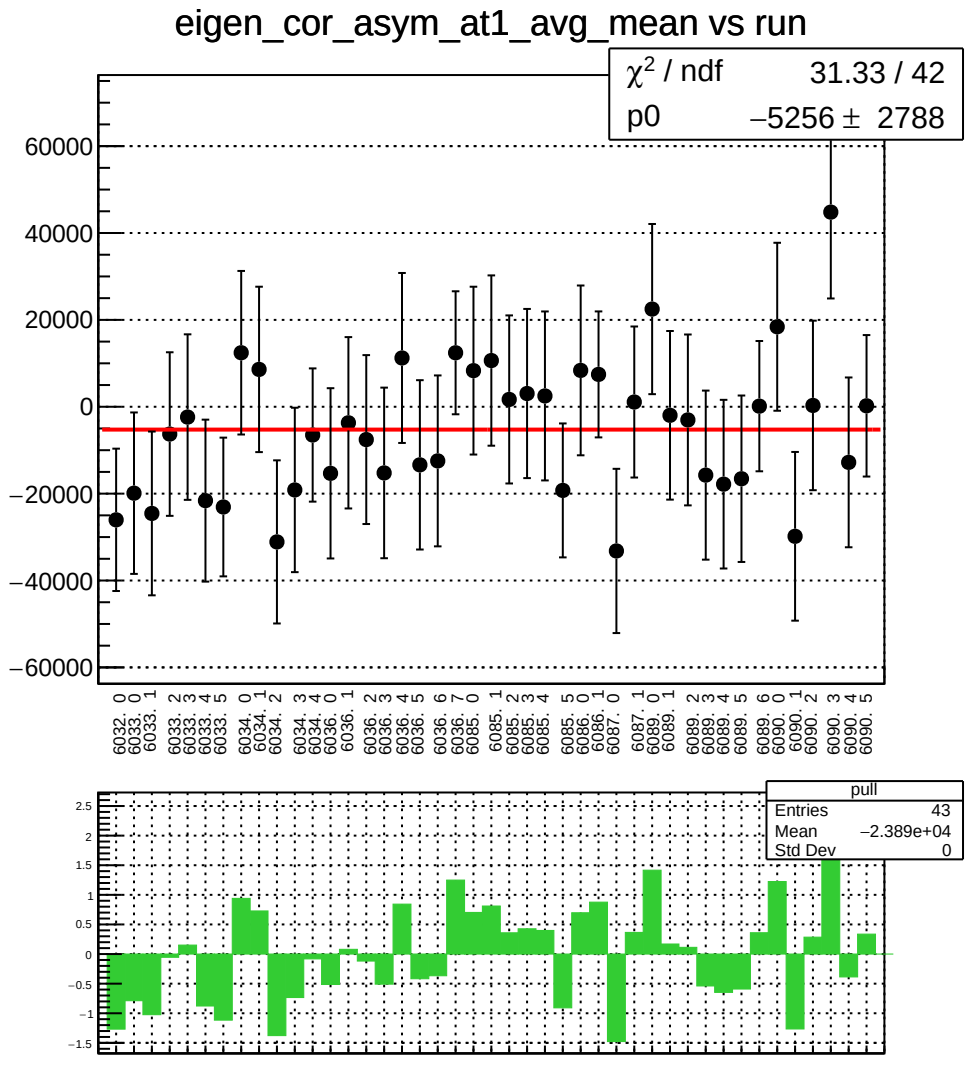

cor_asym_at1_avg_mean vs run
χ² / ndf 31.33 / 42
p0 −5256 ± 2788
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.389e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0001415
Std Dev 0.8536
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

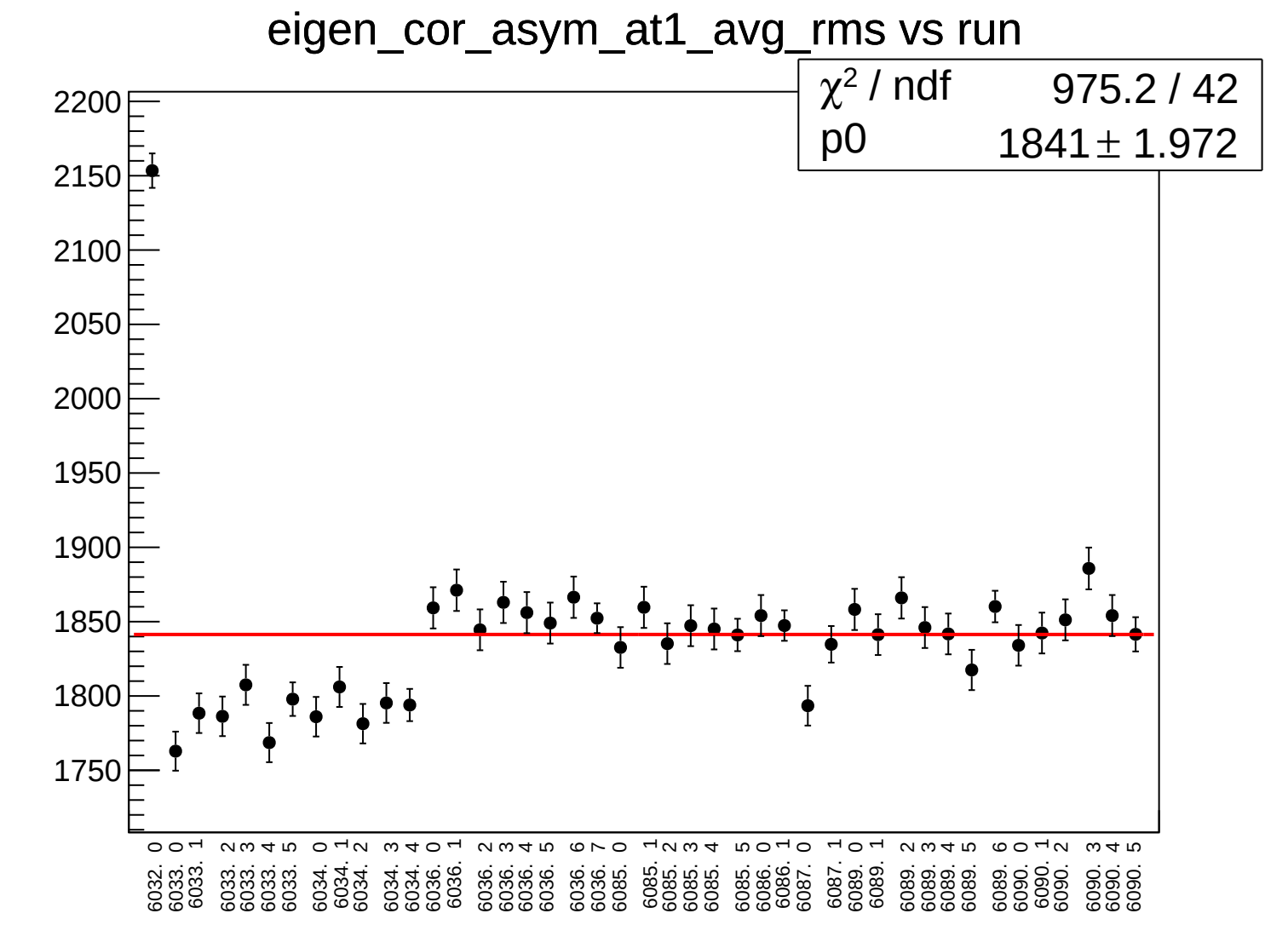

cor_asym_at1_avg_rms vs run
χ² / ndf 975.2 / 42
p0 1841 ± 1.972
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

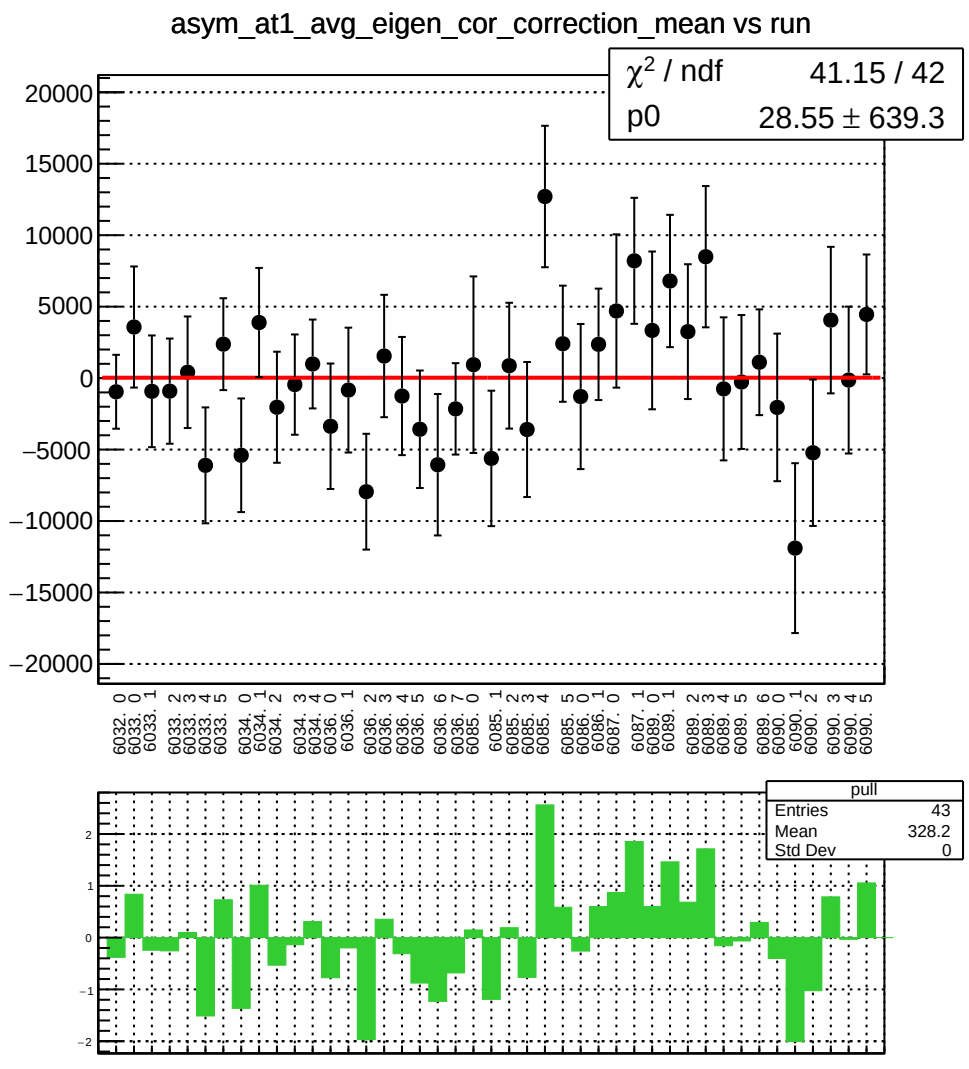

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 41.15 / 42
p0 28.55 ± 639.3
pull
Entries 43
Mean 328.2
Std Dev 0

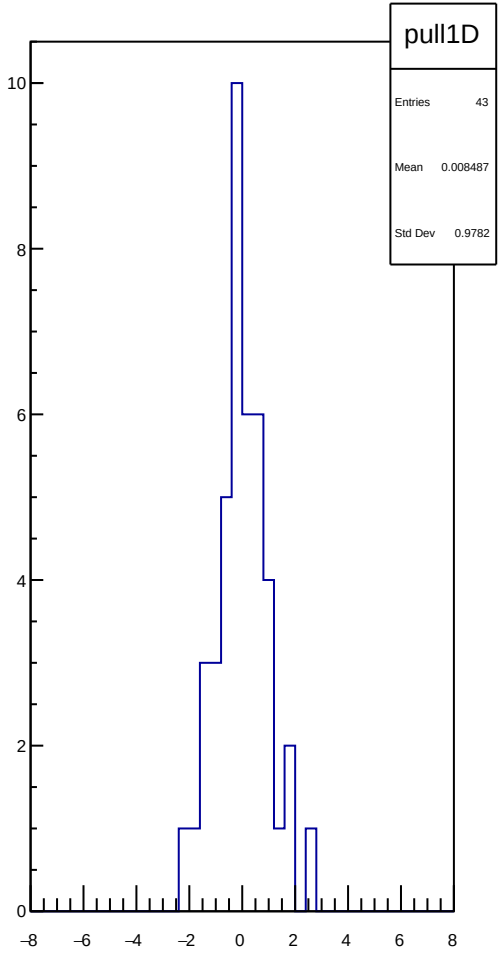

pull1D
Entries 43
Mean 0.008487
Std Dev 0.9782

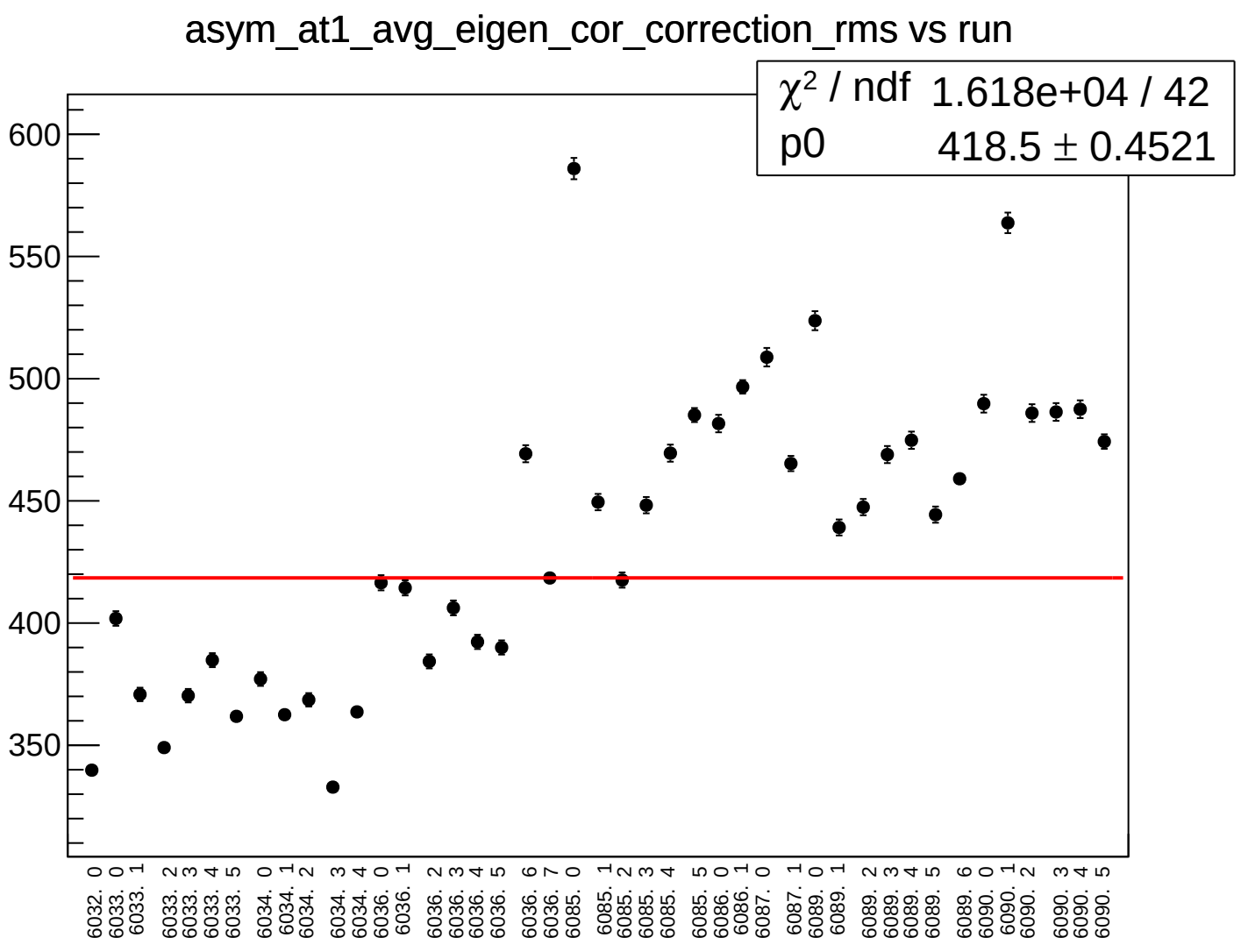

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.618e+04 / 42
p0 418.5 ± 0.4521
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

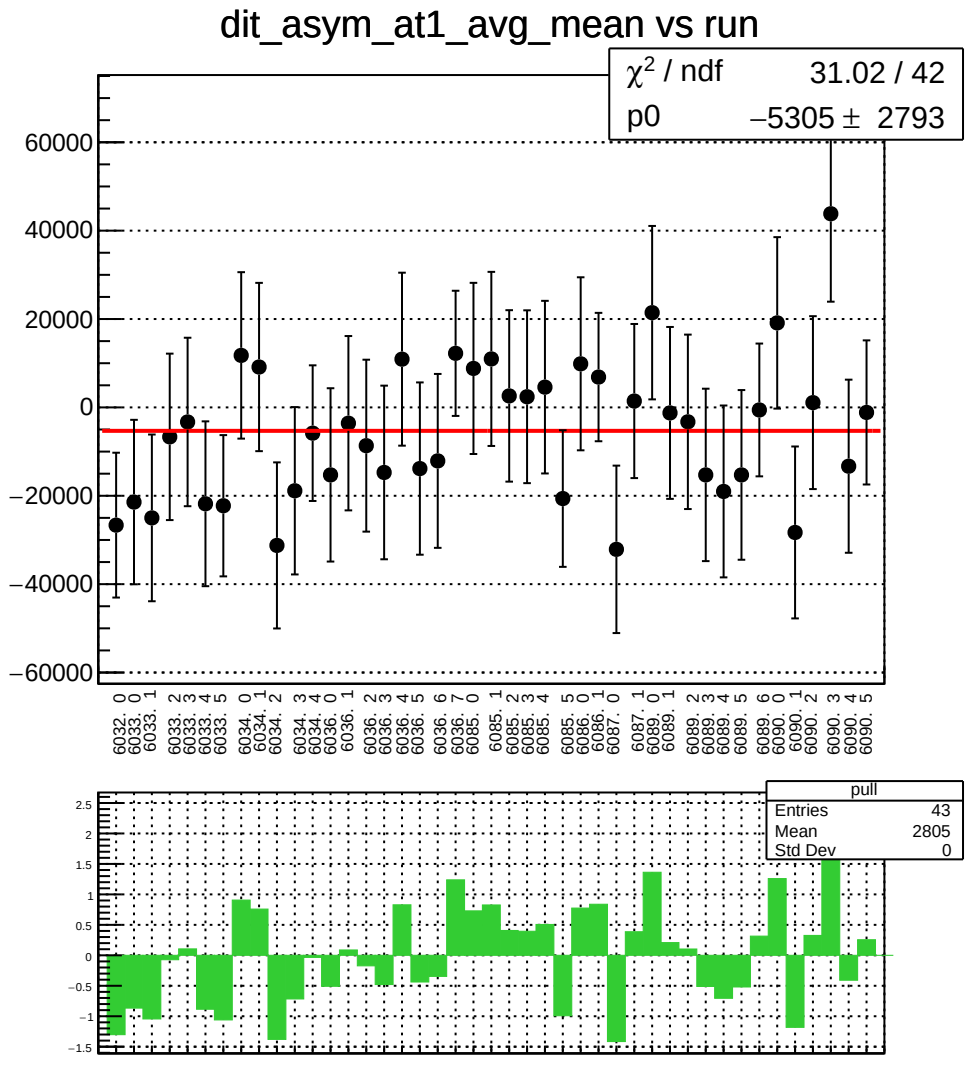

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 31.33 / 42
p0 −5256 ± 2788
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.389e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0001415
Std Dev 0.8536
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

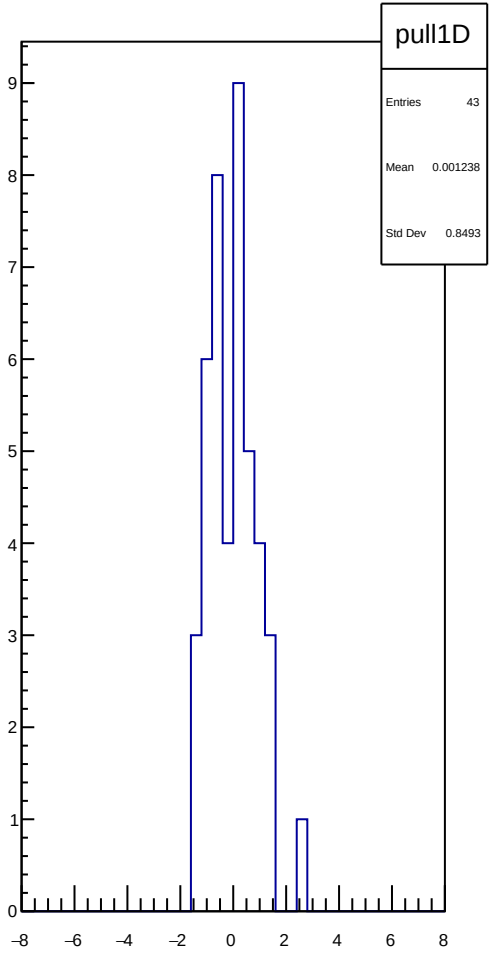

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 975.2 / 42
p0 1841 ± 1.972
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

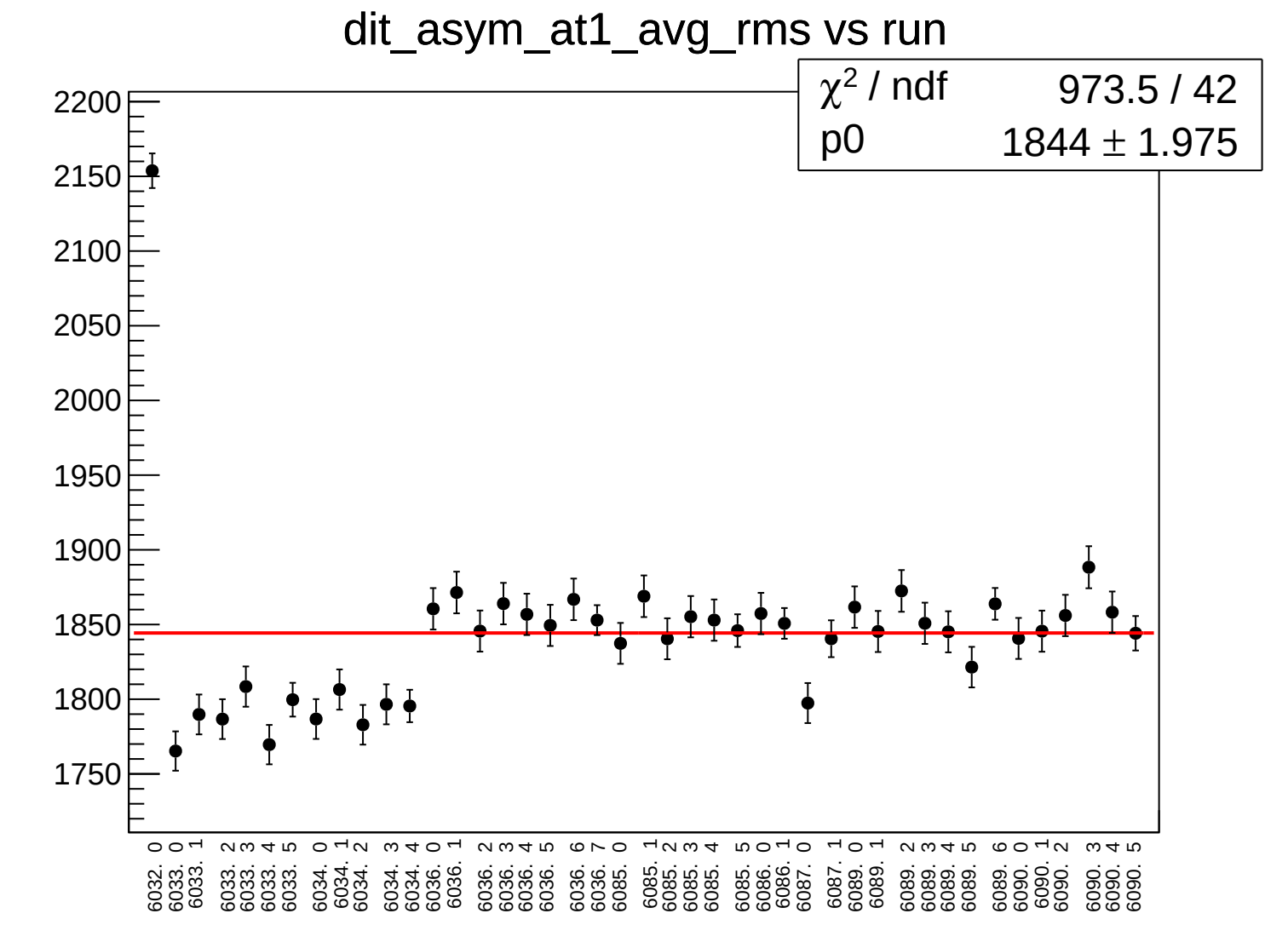

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.15 / 42
p0 28.55 ± 639.3
pull
Entries 43
Mean 328.2
Std Dev 0

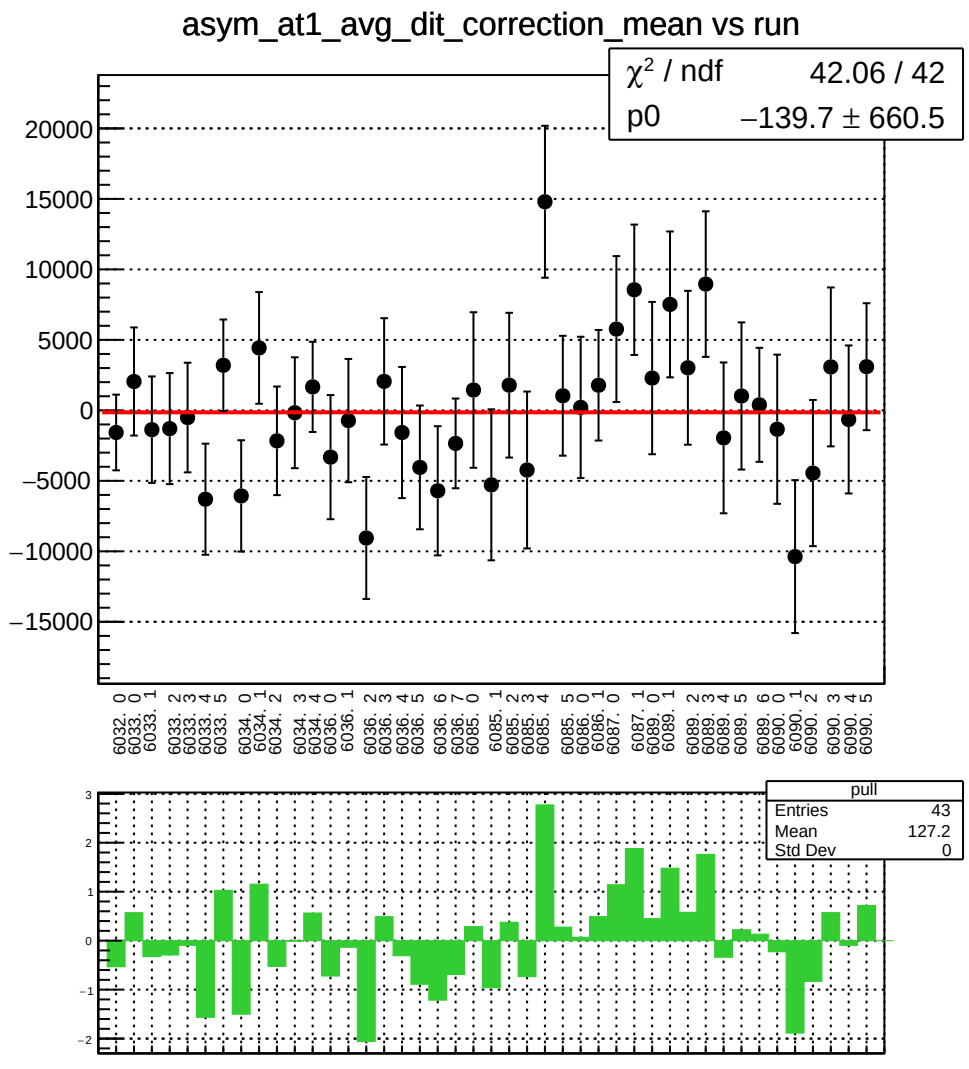

pull1D
Entries 43
Mean 0.008487
Std Dev 0.9782

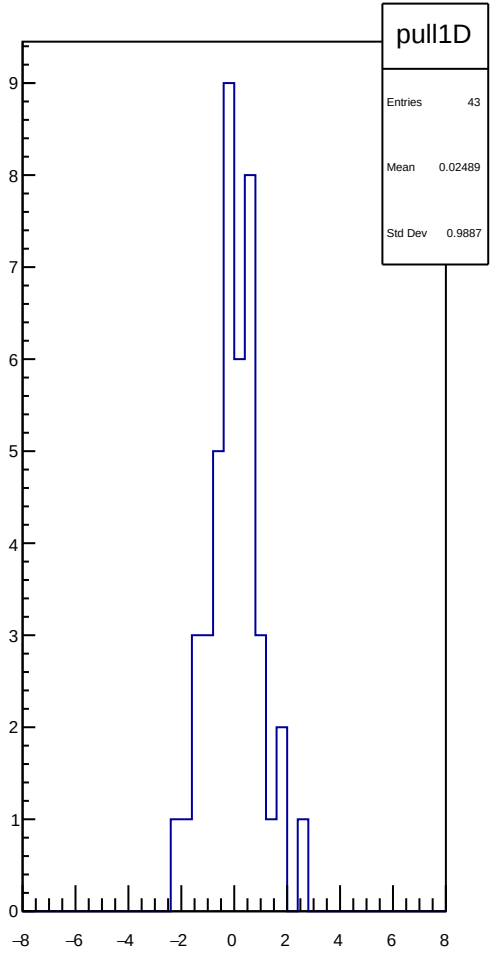

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.618e+04 / 42
p0 418.5 ± 0.4521
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

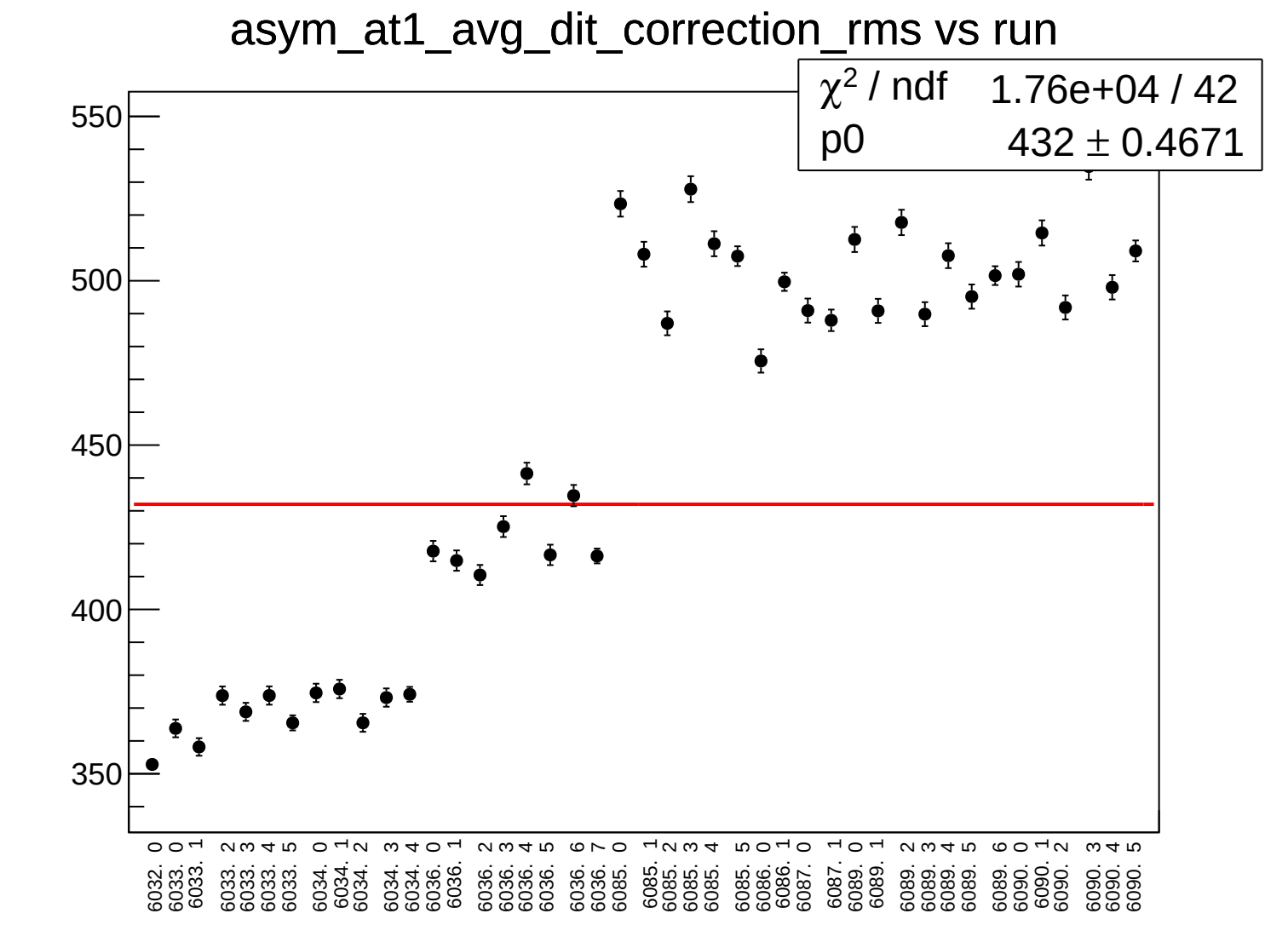

dit_asym_at1_avg_mean vs run
χ² / ndf 31.02 / 42
p0 −5305 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2805
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

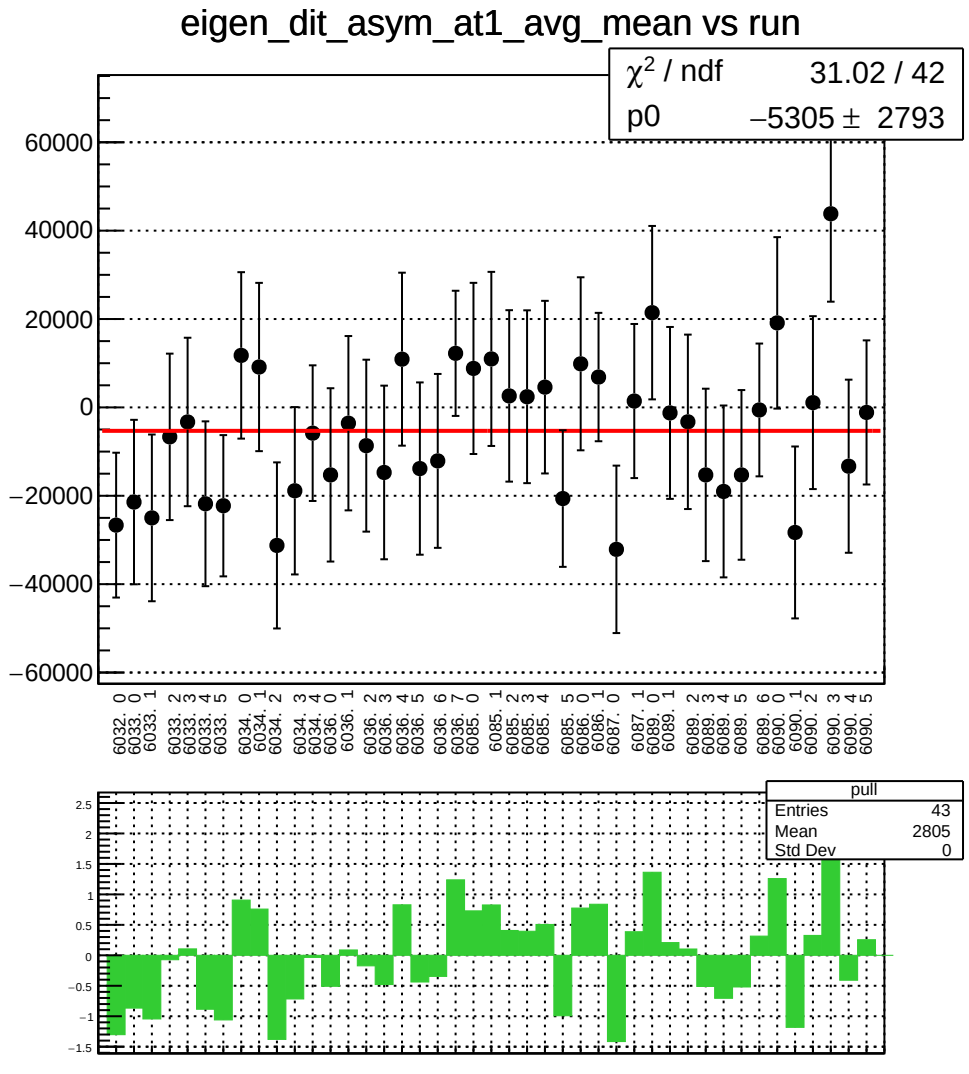

pull1D
Entries 43
Mean 0.001238
Std Dev 0.8493
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

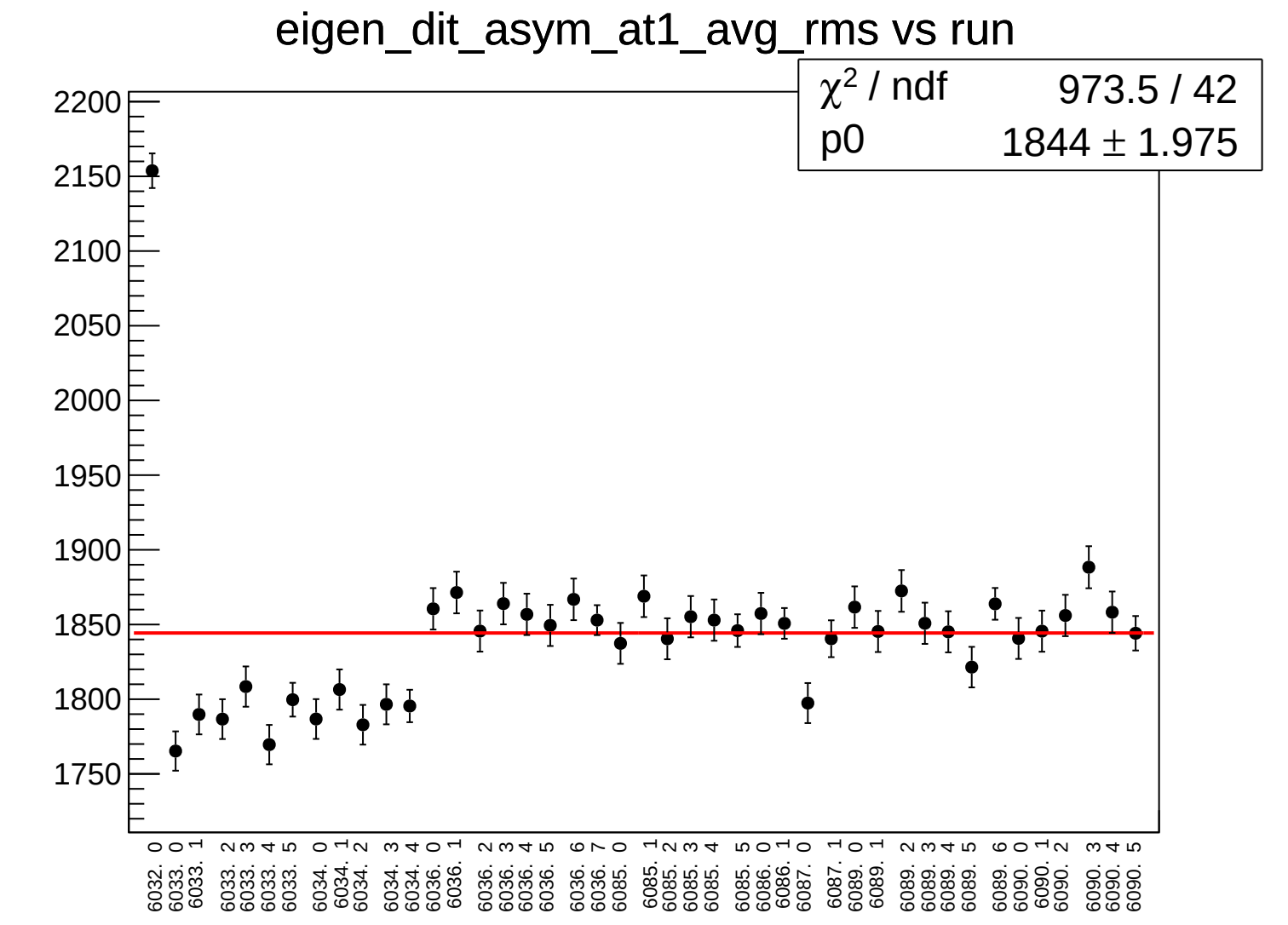

dit_asym_at1_avg_rms vs run
χ² / ndf 973.5 / 42
p0 1844 ± 1.975
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

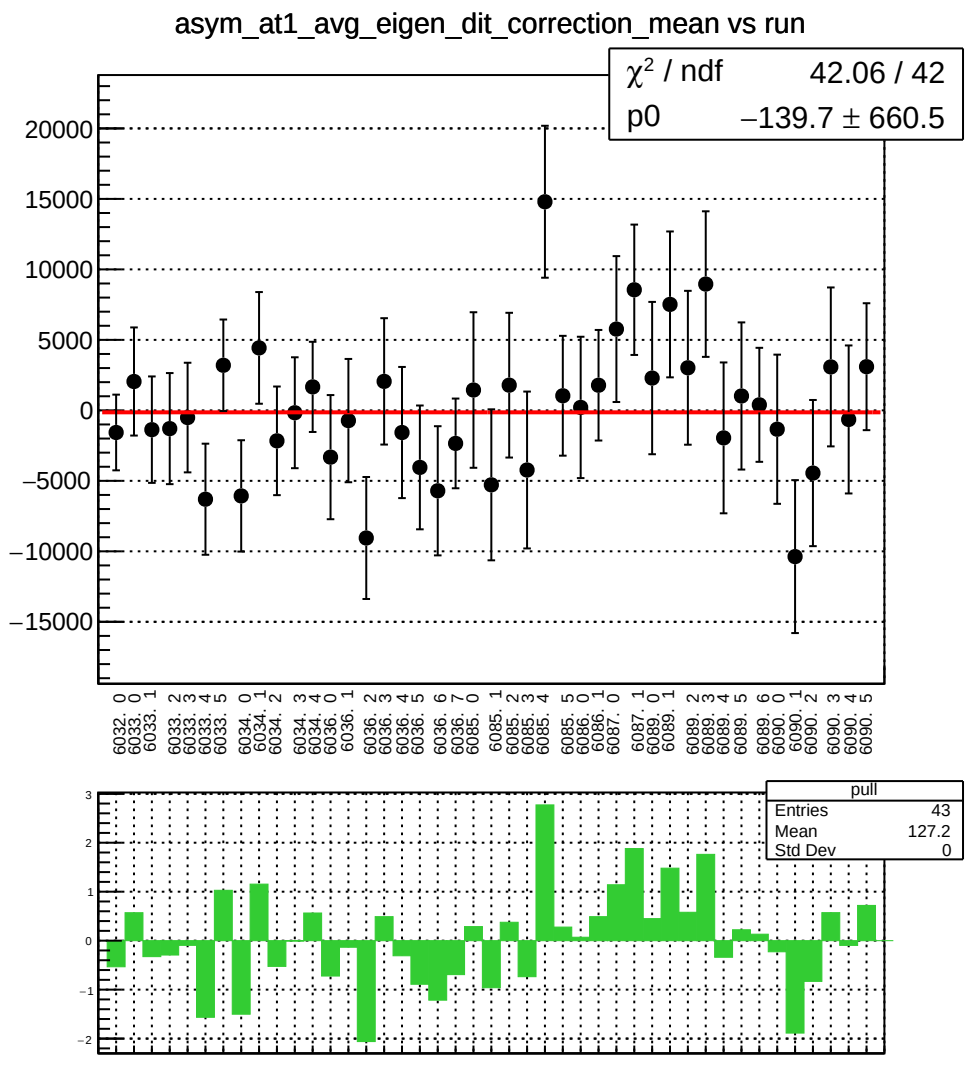

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 42.06 / 42
p0 −139.7 ± 660.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 127.2
Std Dev 0
3
2
1
0
−1
−2

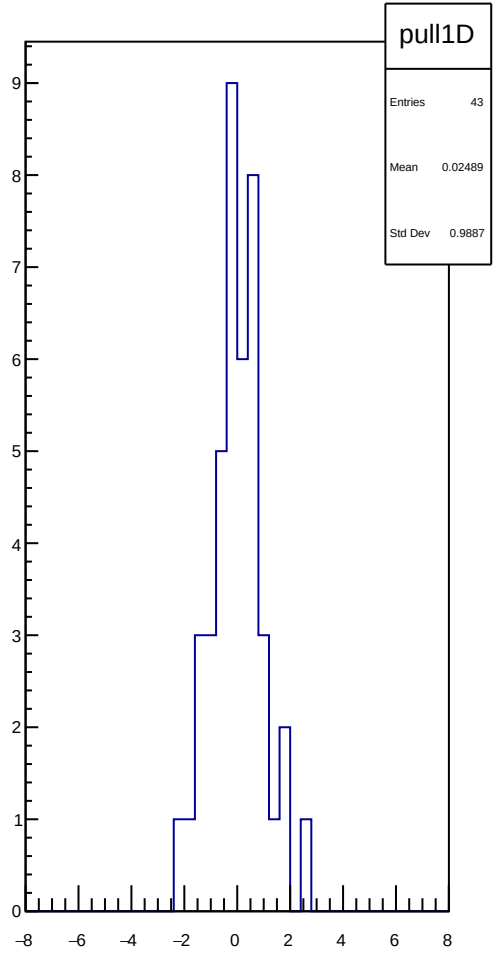

pull1D
Entries 43
Mean 0.02489
Std Dev 0.9887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

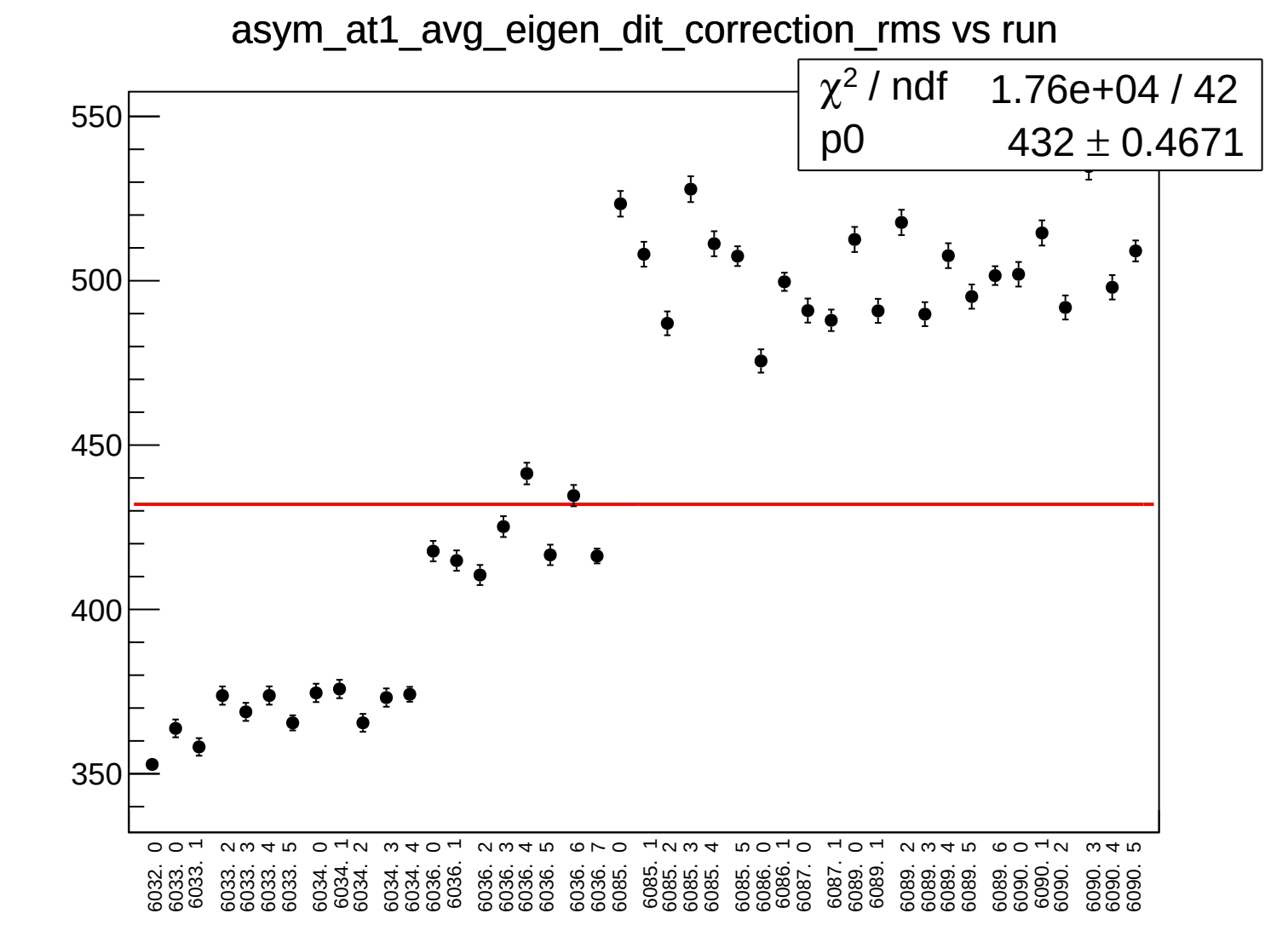

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.76e+04 / 42
p0 432 ± 0.4671
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

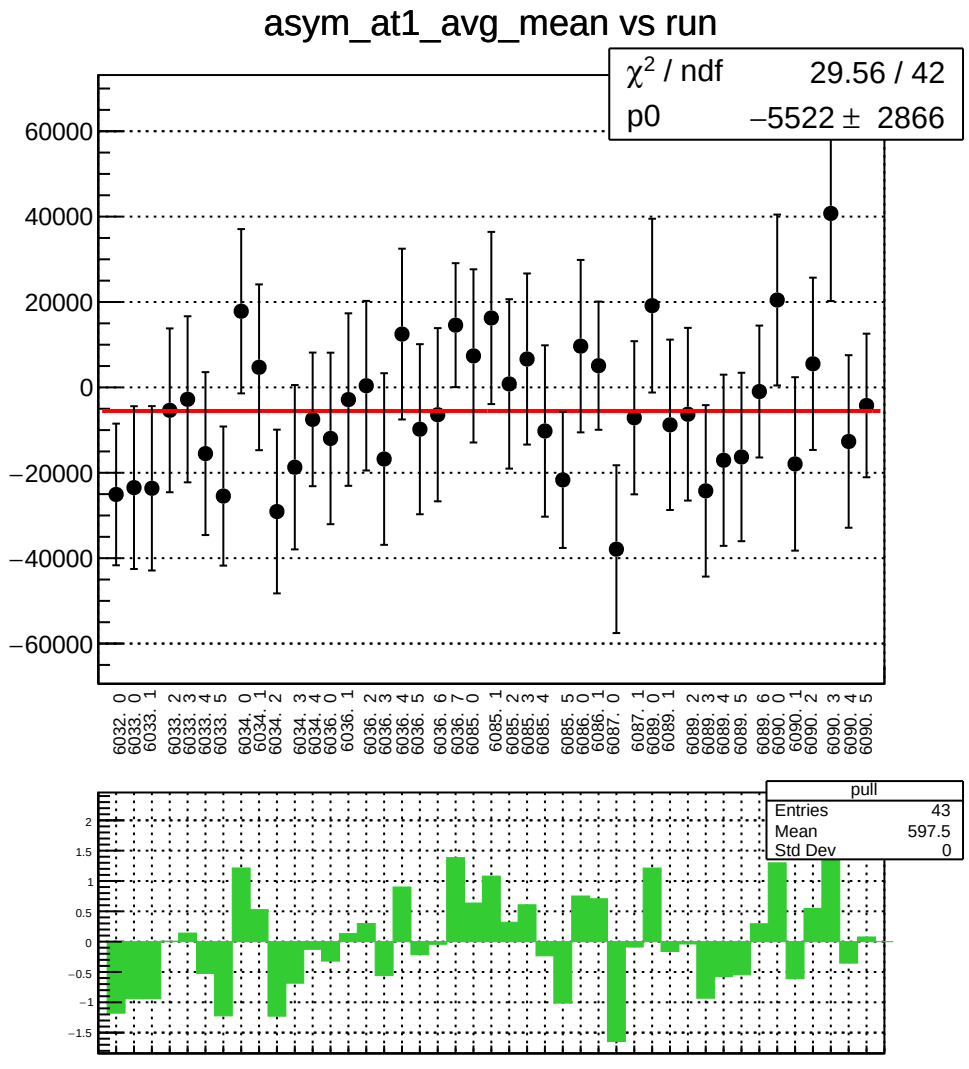

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 31.02 / 42
p0 −5305 ± 2793
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2805
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001238
Std Dev 0.8493
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

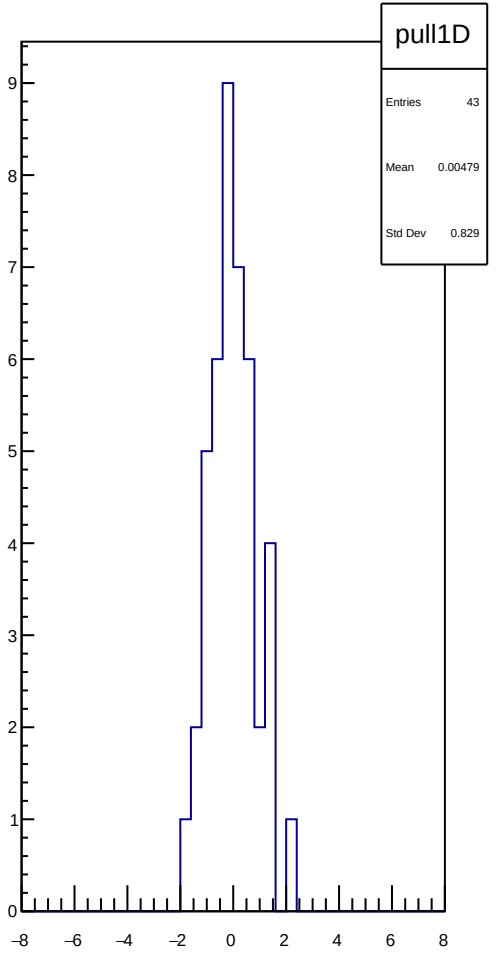

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 973.5 / 42
p0 1844 ± 1.975
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

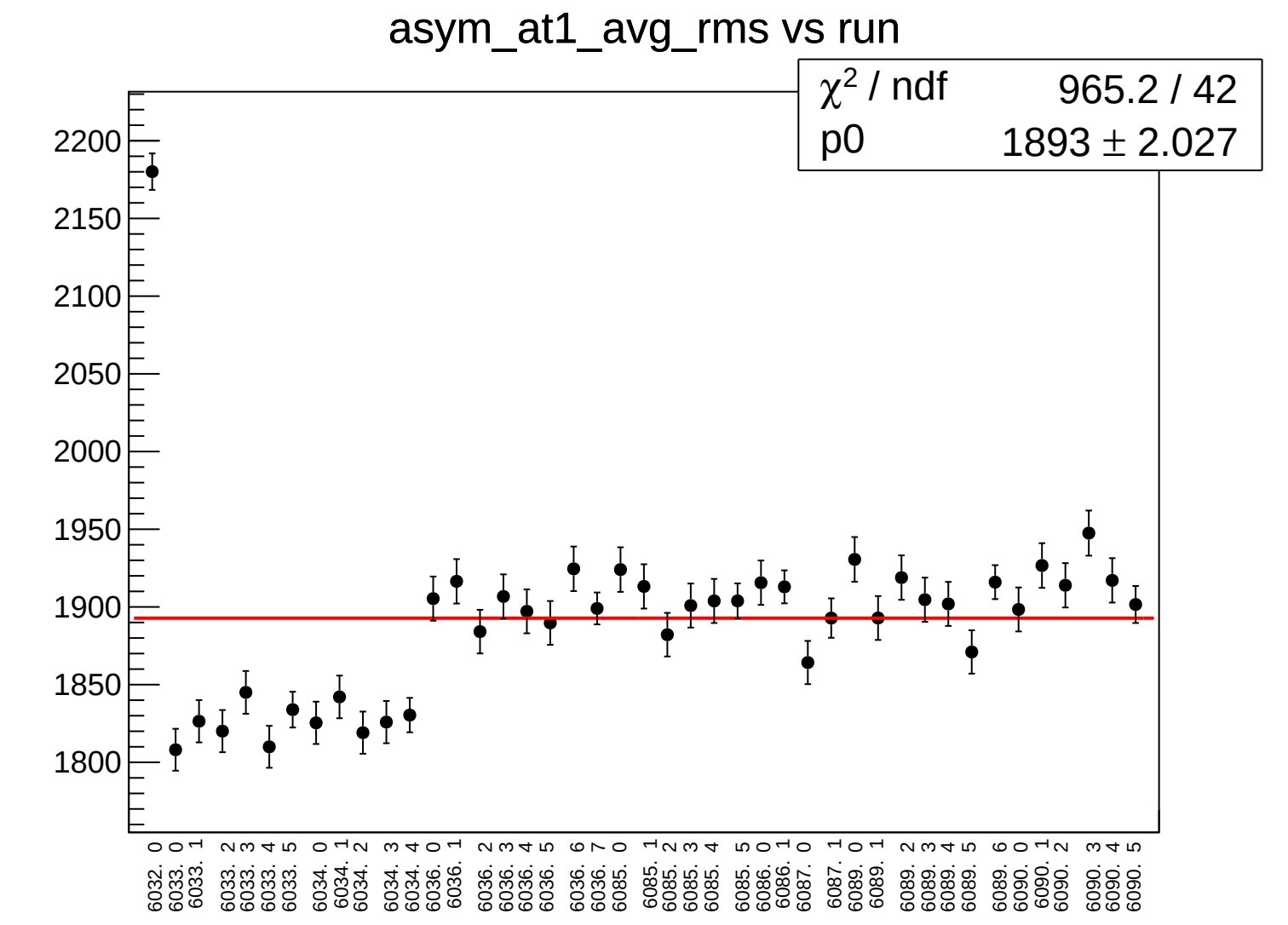

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 42.06 / 42
p0 −139.7 ± 660.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 127.2
Std Dev 0
3
2
1
0
−1
−2

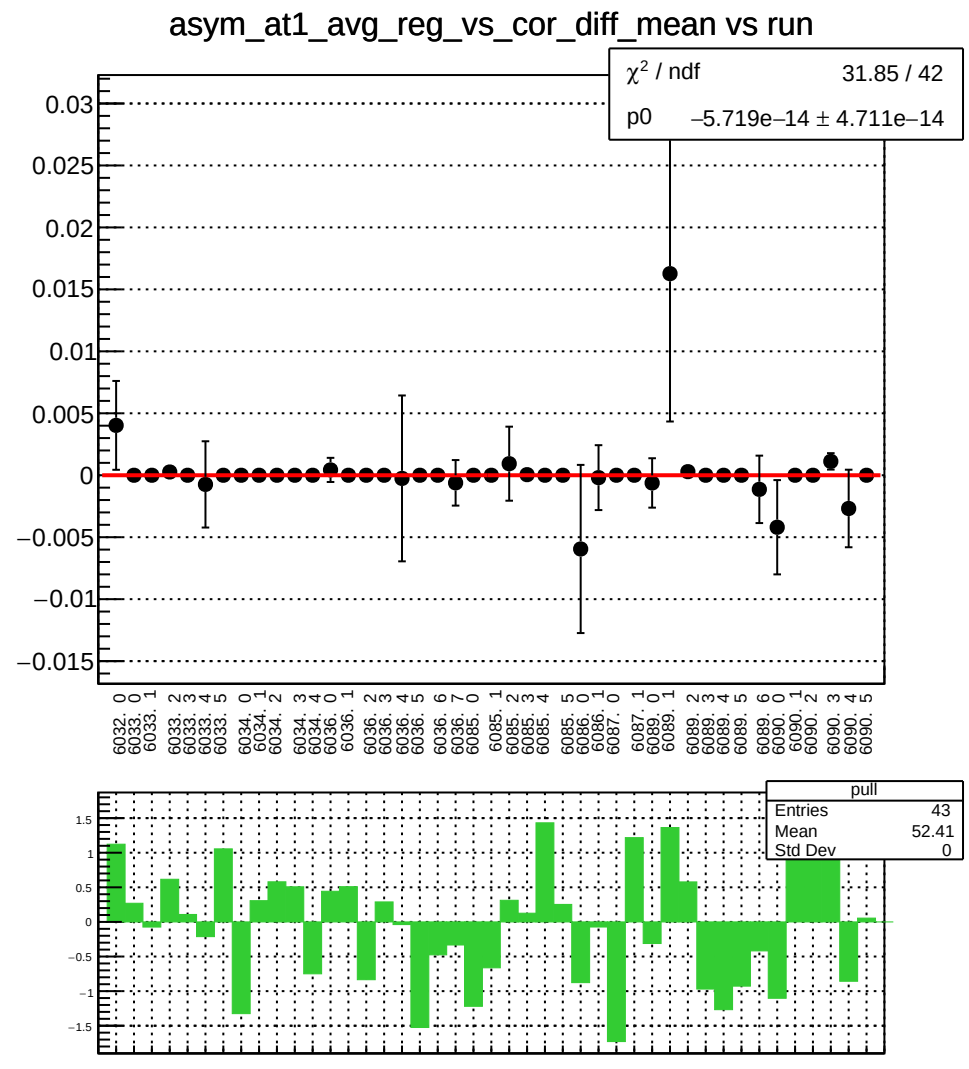

pull1D
Entries 43
Mean 0.02489
Std Dev 0.9887
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

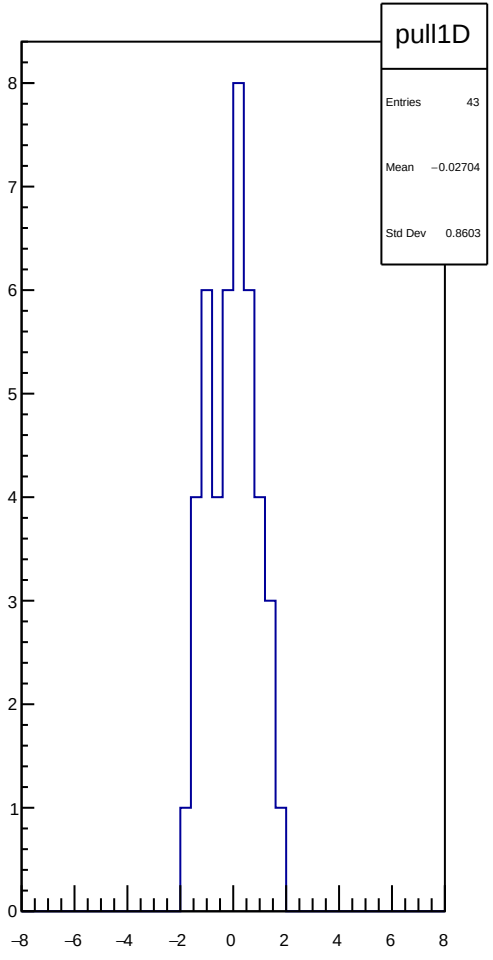

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.76e+04 / 42
p0 432 ± 0.4671
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

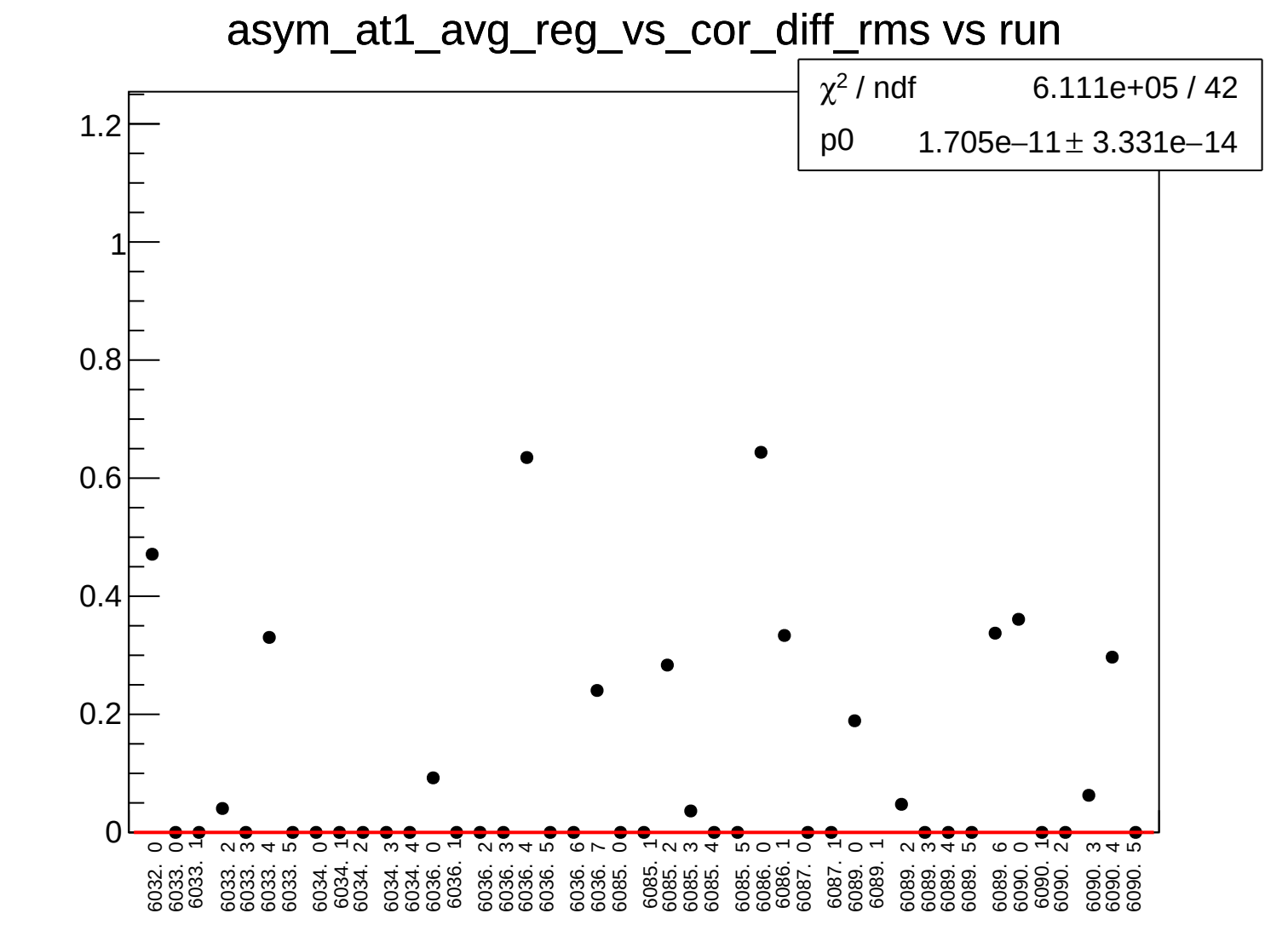

asym_at1_avg_mean vs run
χ² / ndf 29.56 / 42
p0 −5522 ± 2866
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 597.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

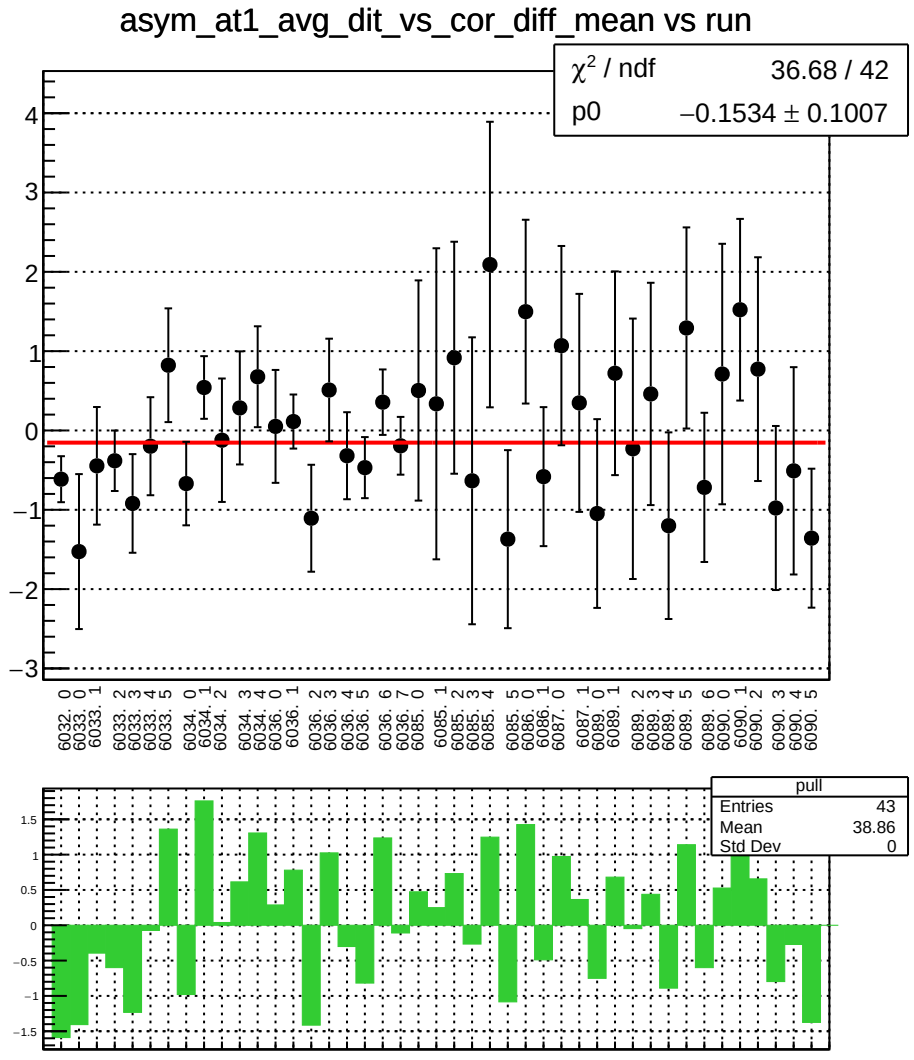

pull1D
Entries 43
Mean 0.00479
Std Dev 0.829
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

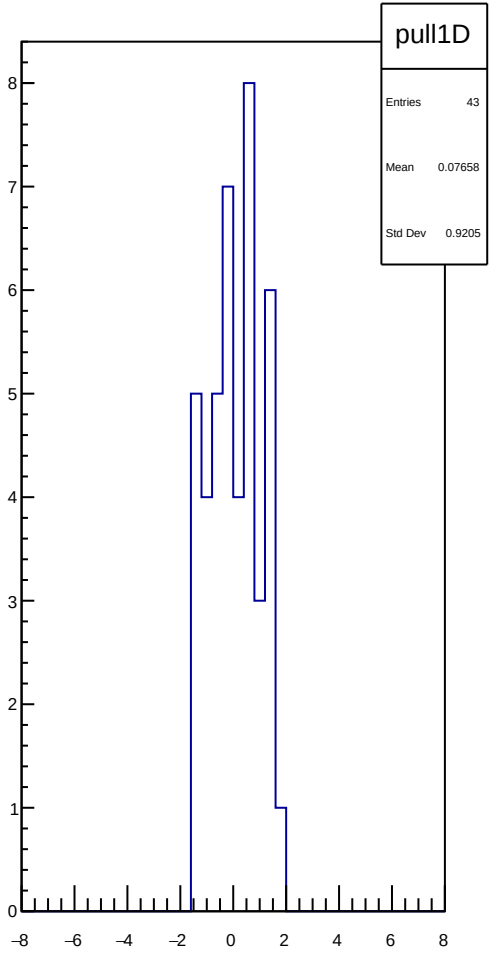

asym_at1_avg_rms vs run
χ² / ndf 965.2 / 42
p0 1893 ± 2.027
2200
2150
2100
2050
2000
1950
1900
1850
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

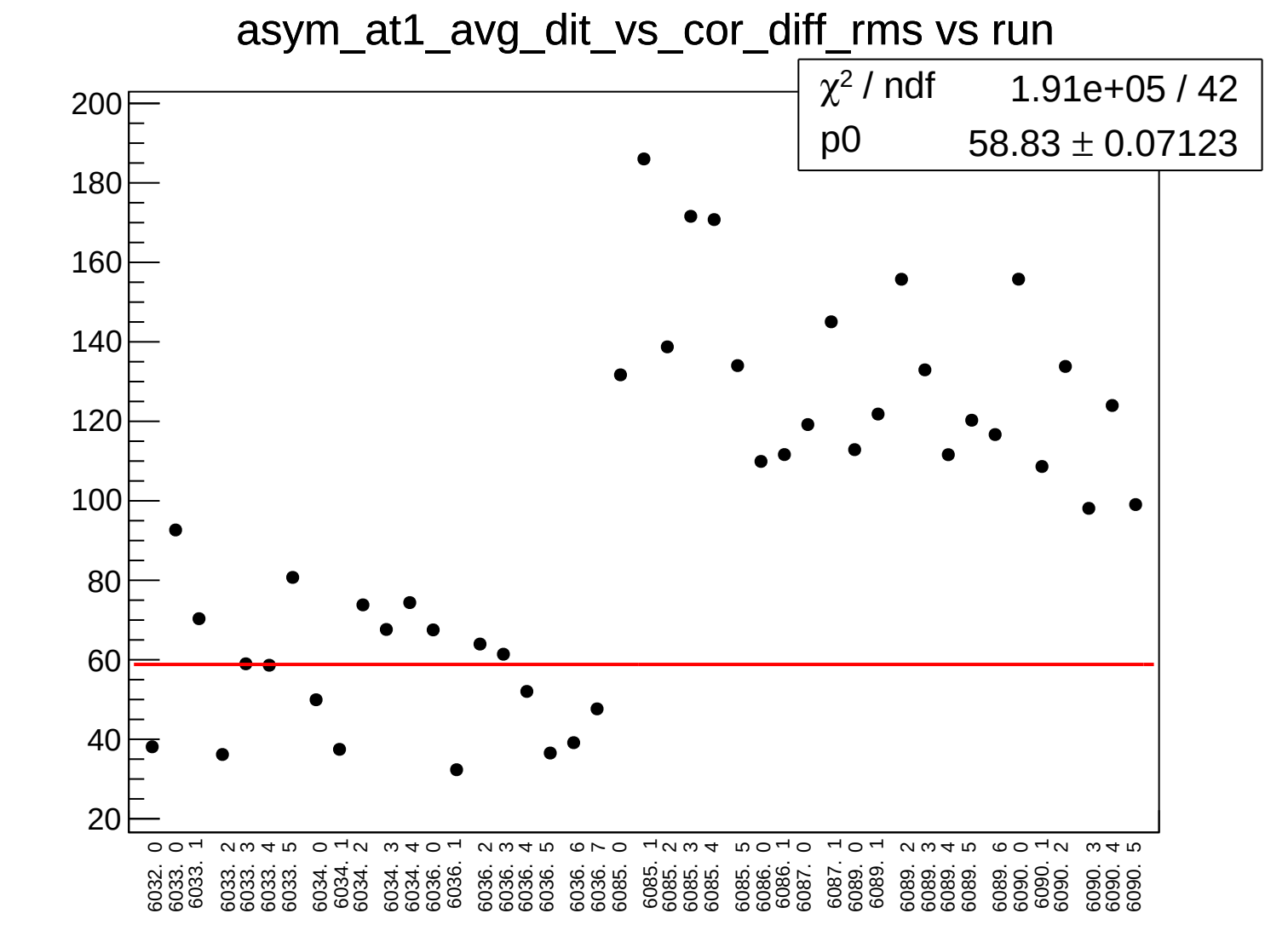

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.85 / 42
p0 −5.719e−14 ± 4.711e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 52.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

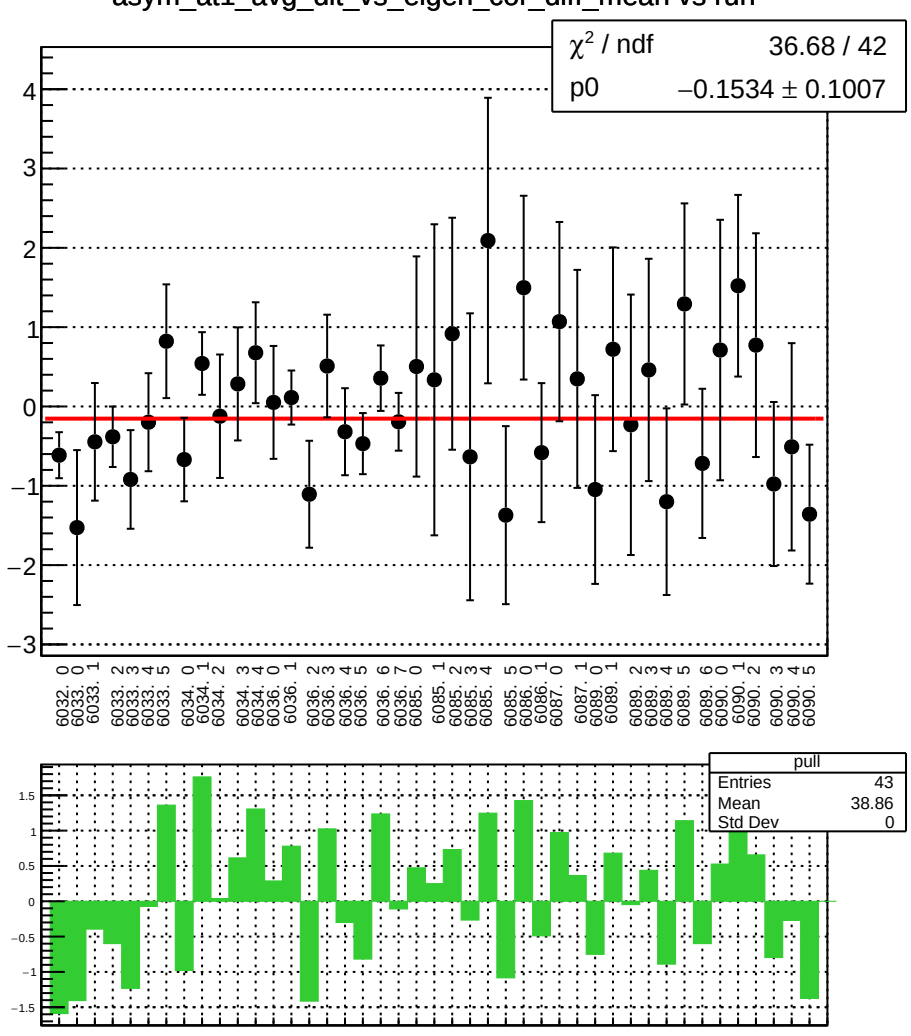

pull1D
Entries 43
Mean −0.02704
Std Dev 0.8603
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

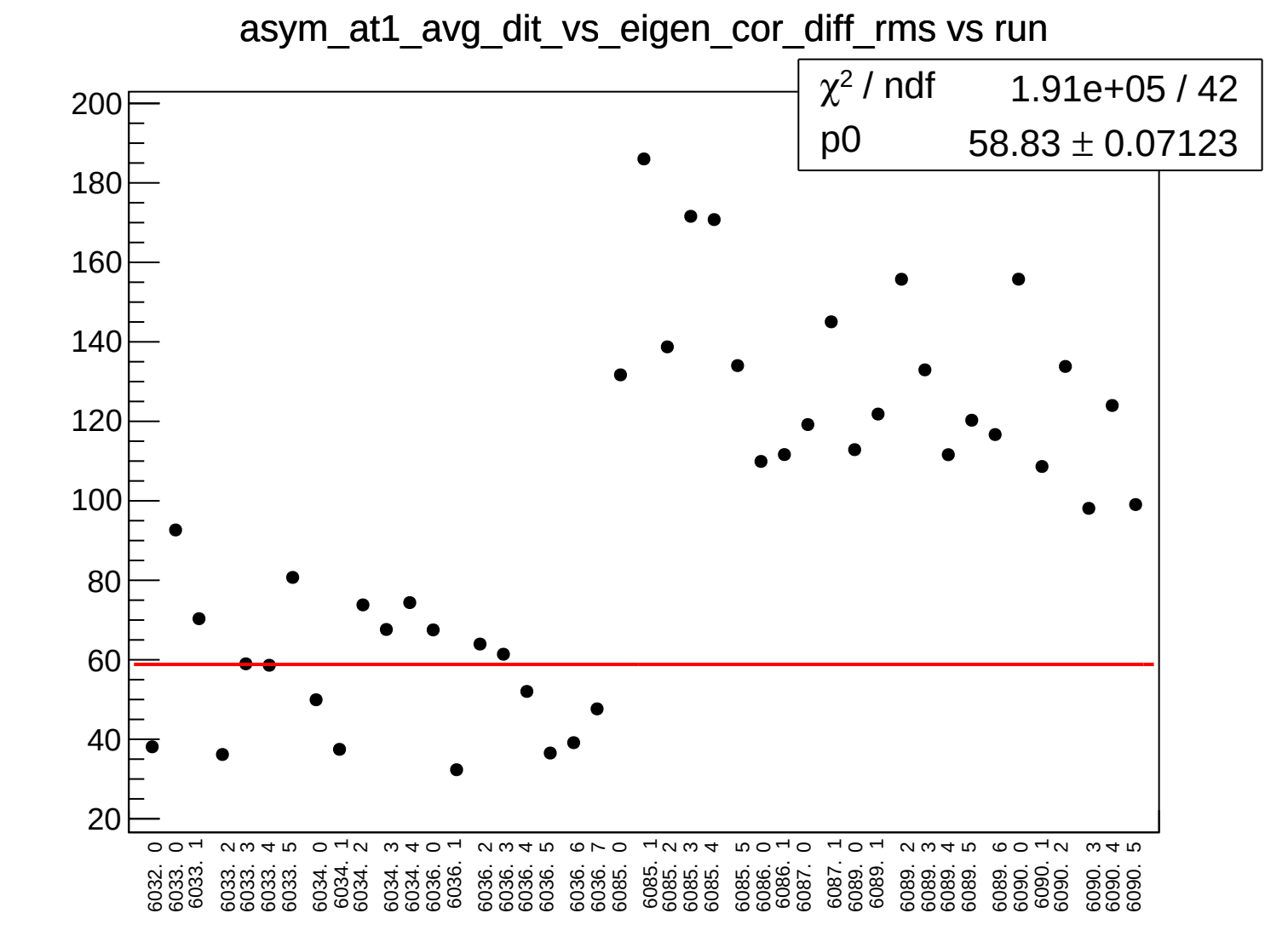

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.111e+05 / 42
p0 1.705e−11 ± 3.331e−14
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

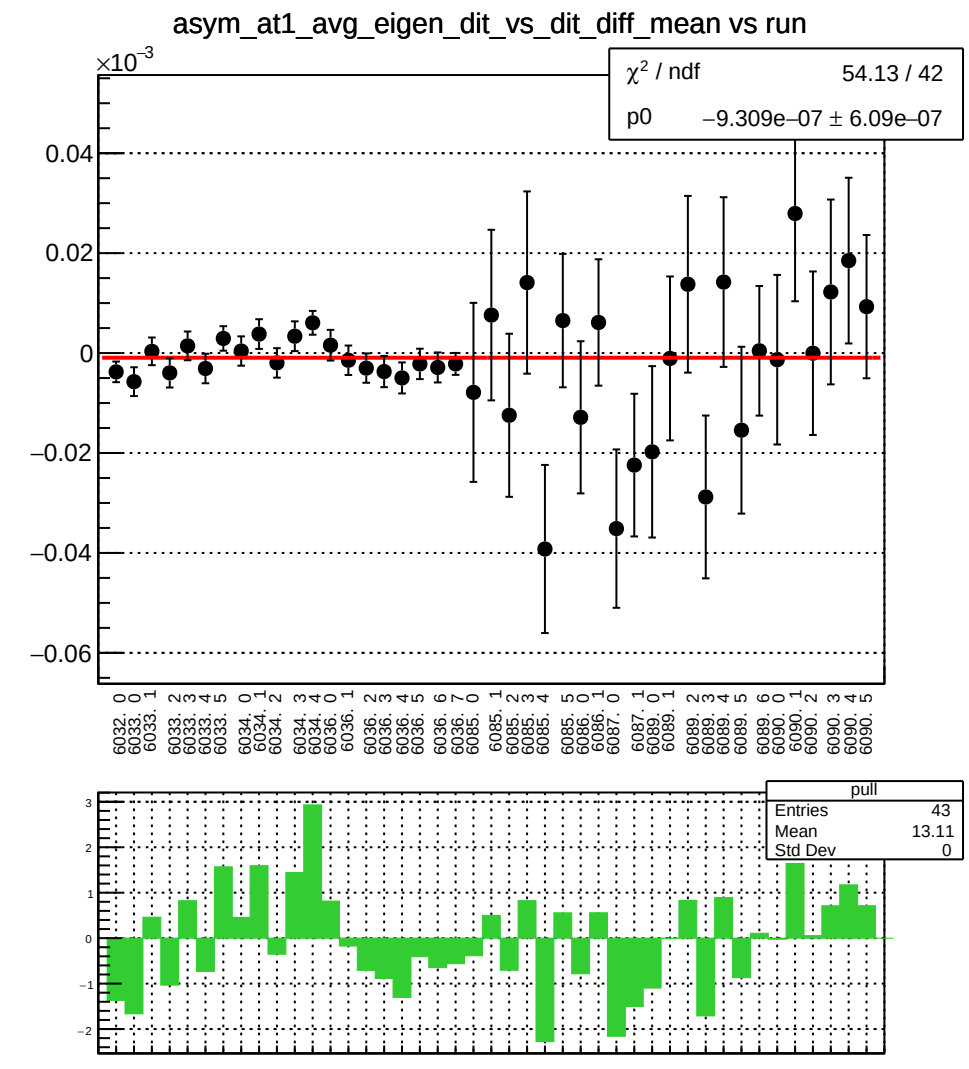

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.68 / 42
p0 −0.1534 ± 0.1007
pull
Entries 43
Mean 38.86
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

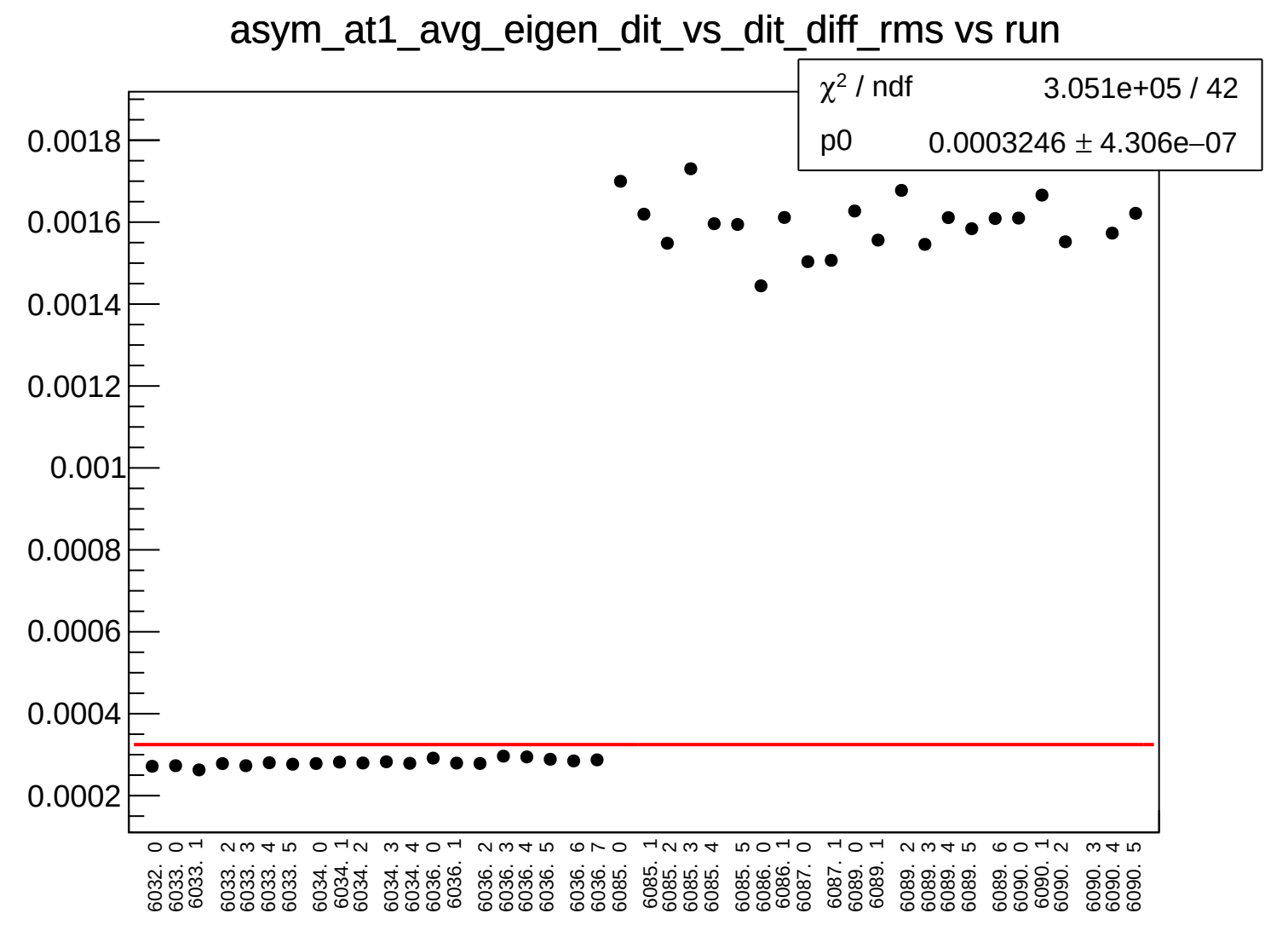

pull1D
Entries 43
Mean 0.07658
Std Dev 0.9205

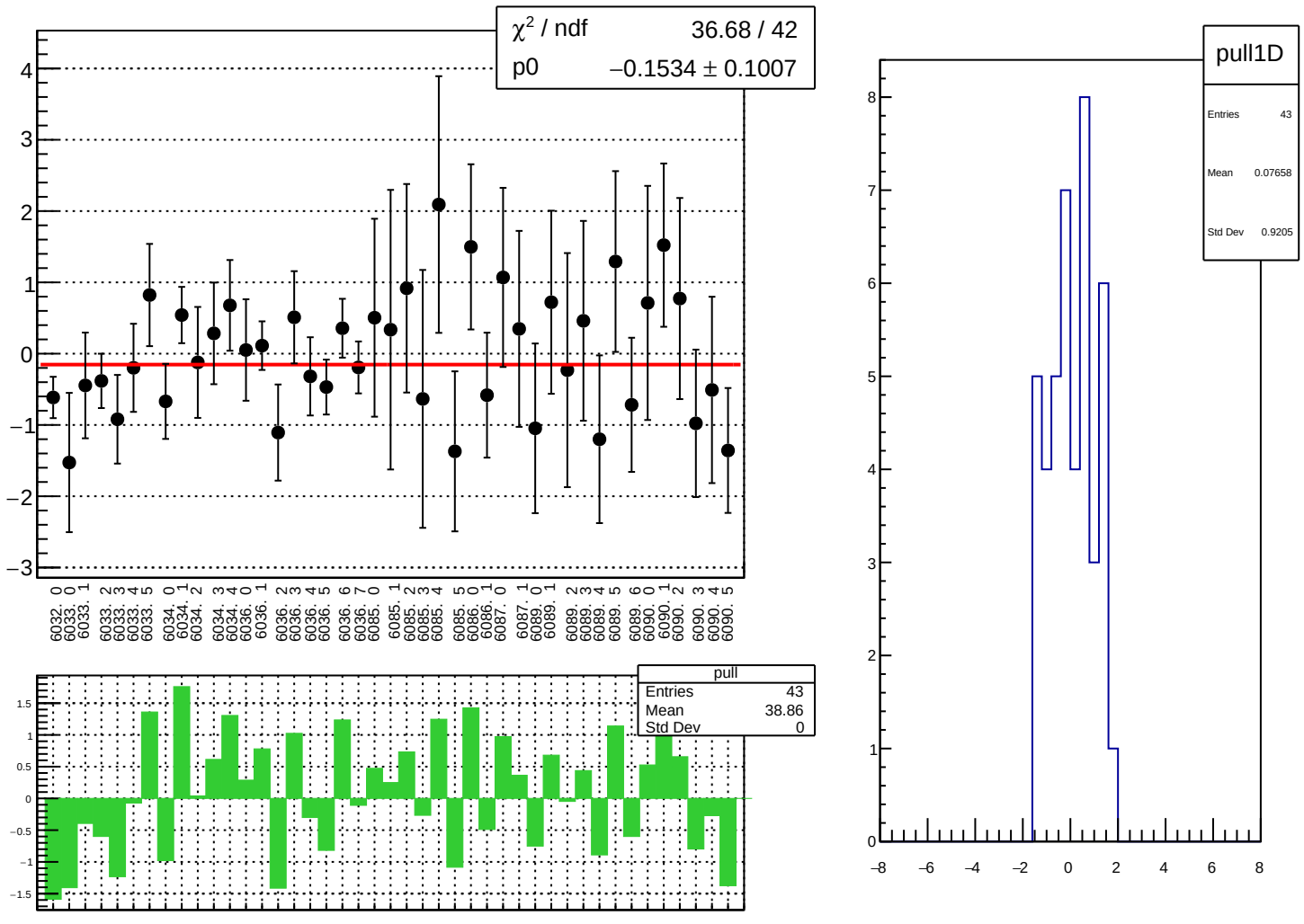

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.91e+05 / 42
p0 58.83 ± 0.07123
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

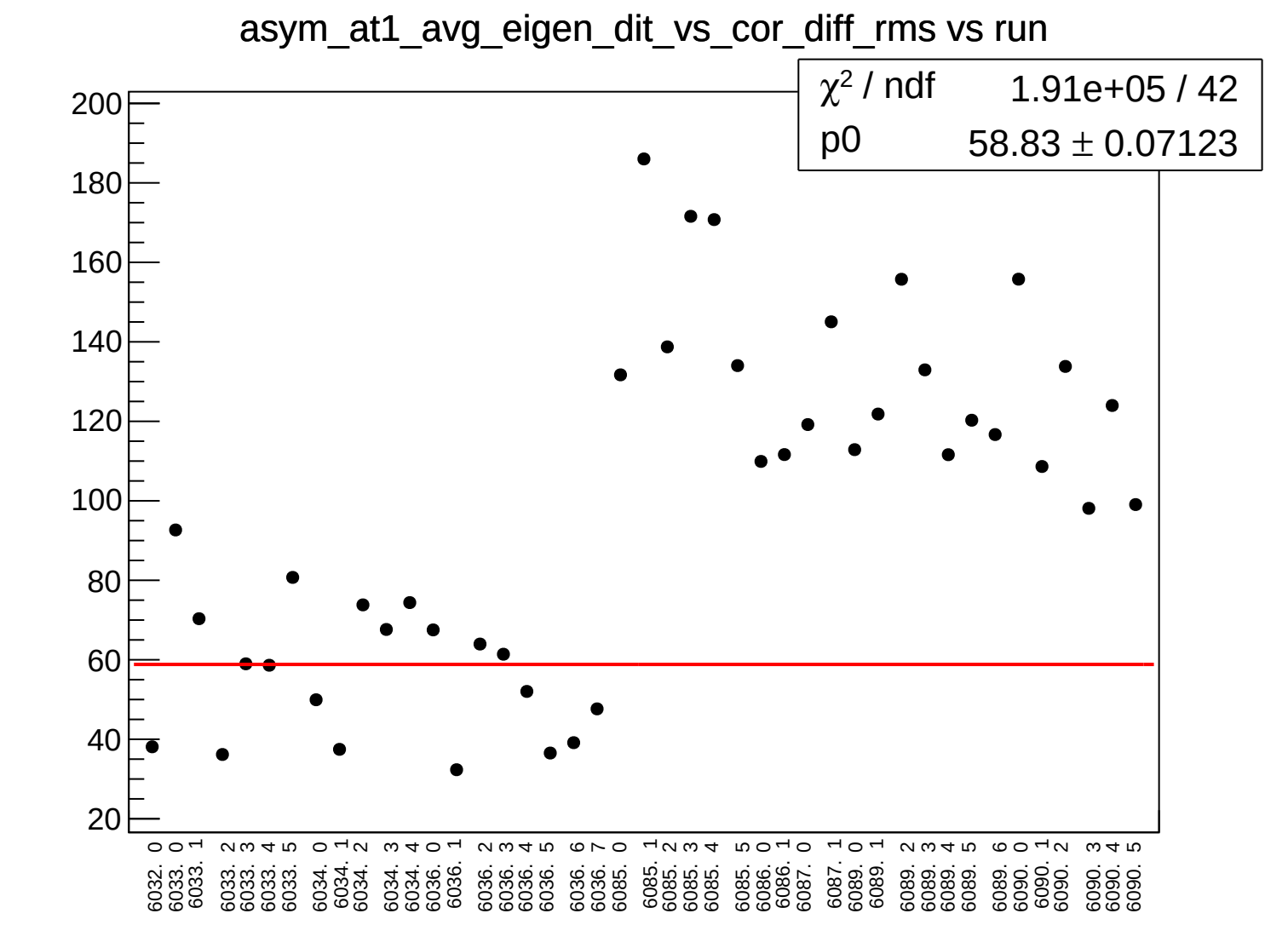

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.68 / 42
p0 −0.1534 ± 0.1007
pull
Entries 43
Mean 38.86
Std Dev 0
pull1D
Entries 43
Mean 0.07658
Std Dev 0.9205

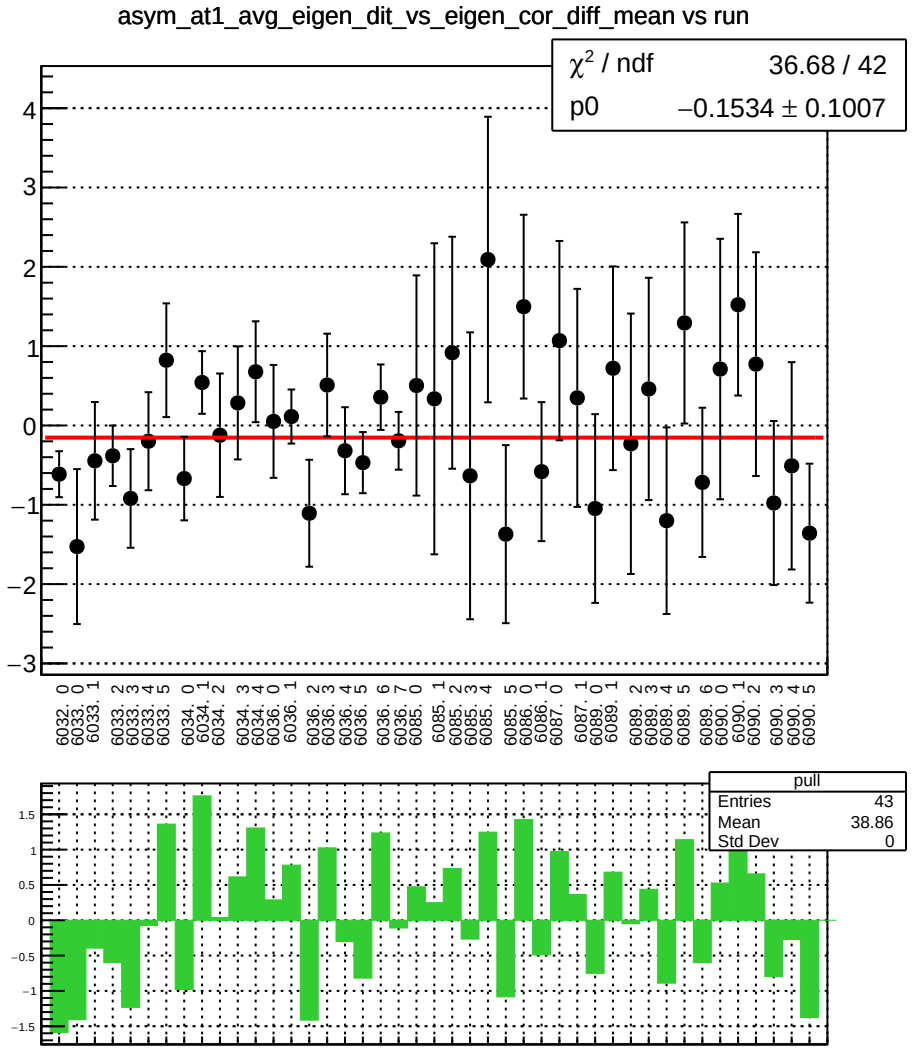

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.91e+05 / 42
p0 58.83 ± 0.07123
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

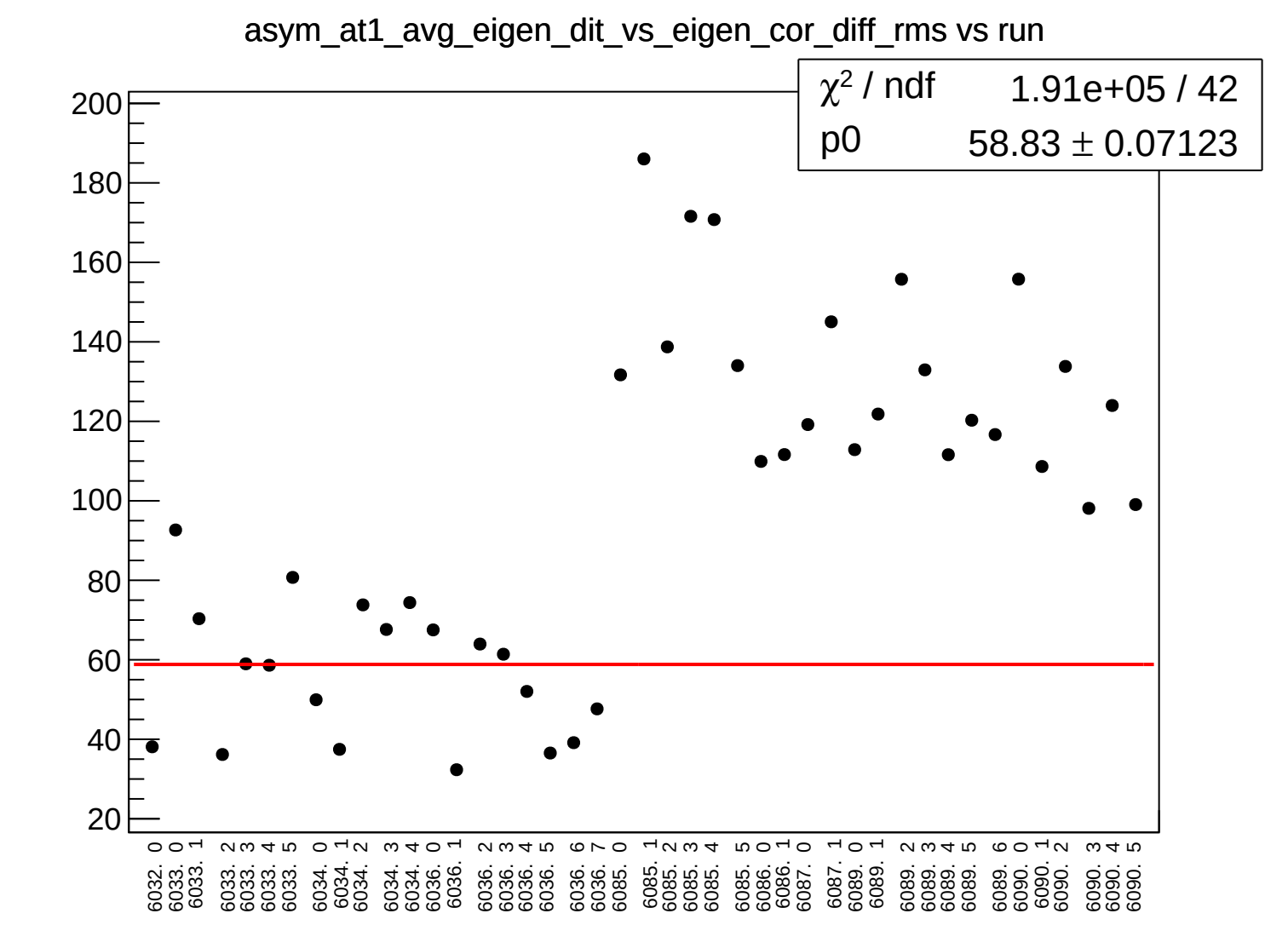

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.13 / 42
p0 −9.309e−07 ± 6.09e−07
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.11
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.06297
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

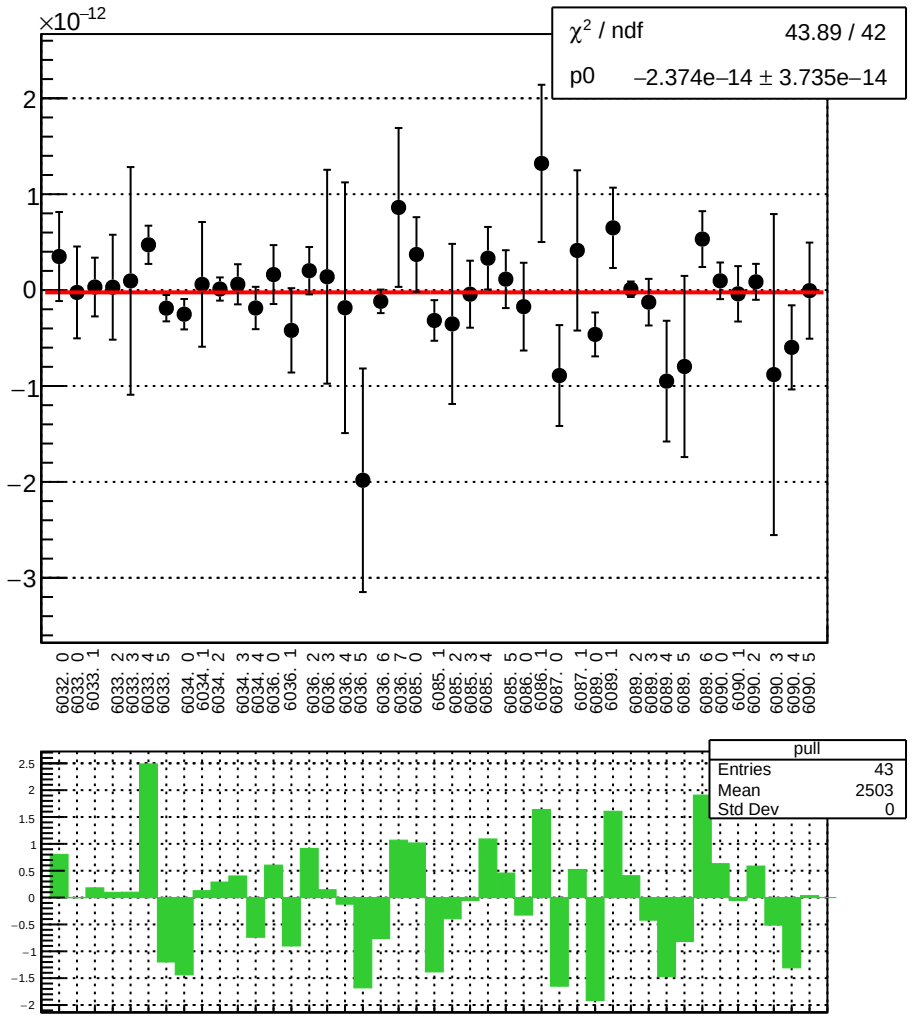

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.051e+05 / 42
p0 0.0003246 ± 4.306e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

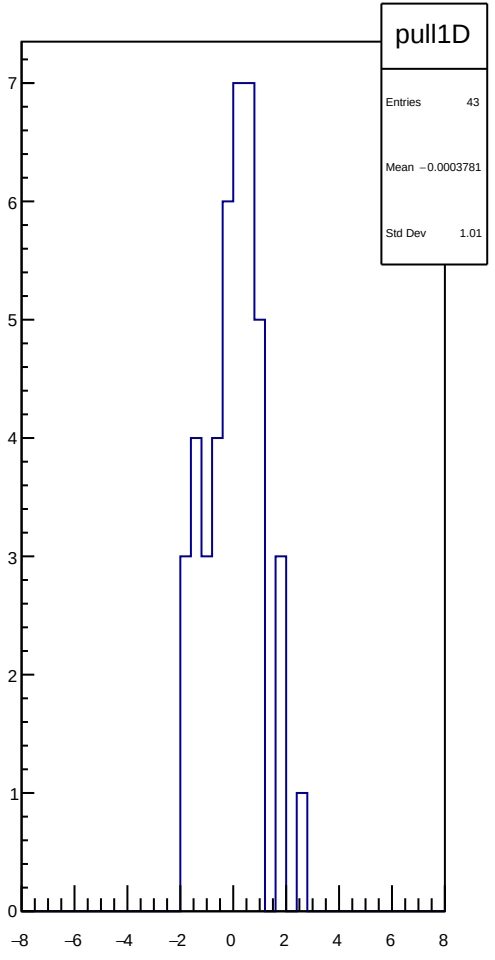

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.68 / 42
p0 −0.1534 ± 0.1007
pull
Entries 43
Mean 38.86
Std Dev 0
pull1D
Entries 43
Mean 0.07658
Std Dev 0.9205

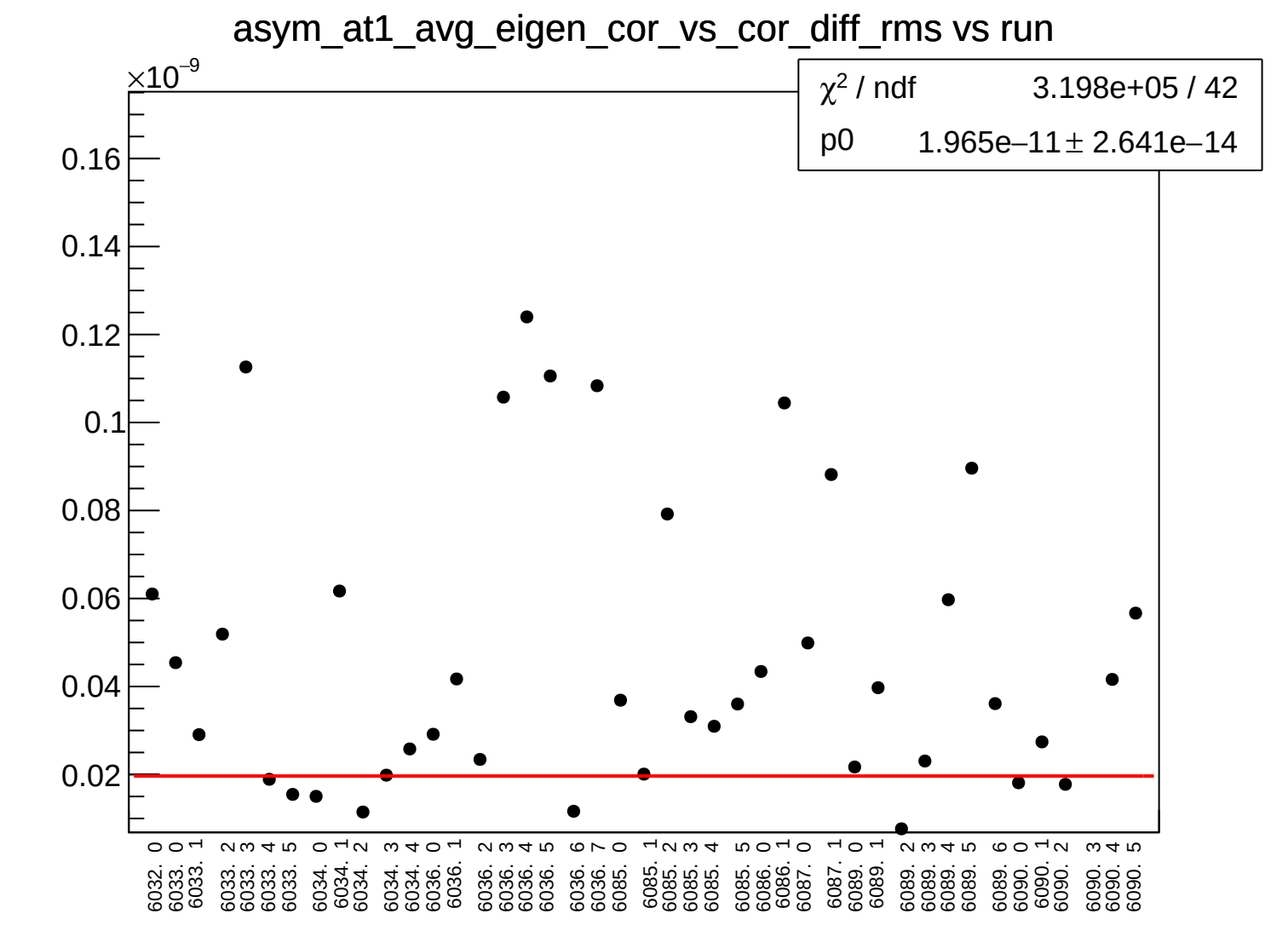

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.91e+05 / 42
p0 58.83 ± 0.07123
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

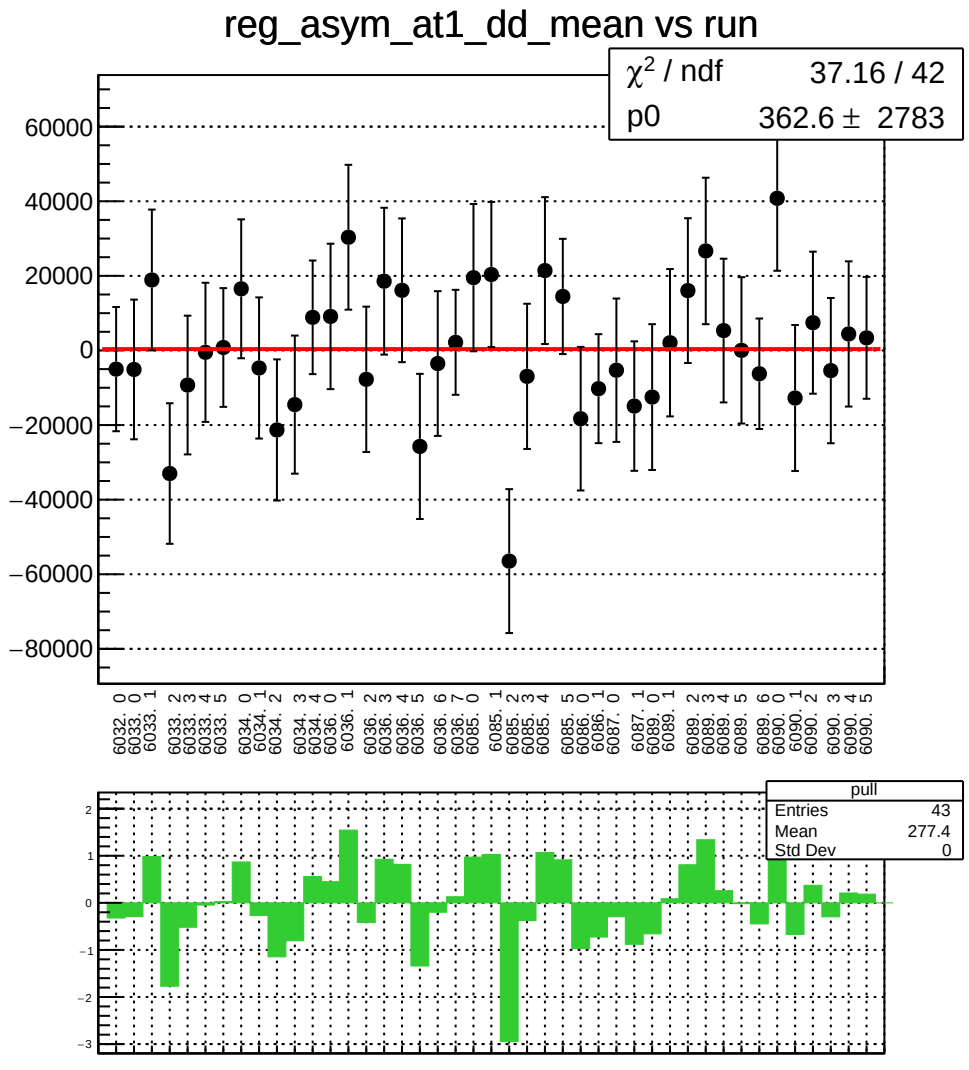

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.68 / 42
p0 −0.1534 ± 0.1007
pull
Entries 43
Mean 38.86
Std Dev 0
pull1D
Entries 43
Mean 0.07658
Std Dev 0.9205

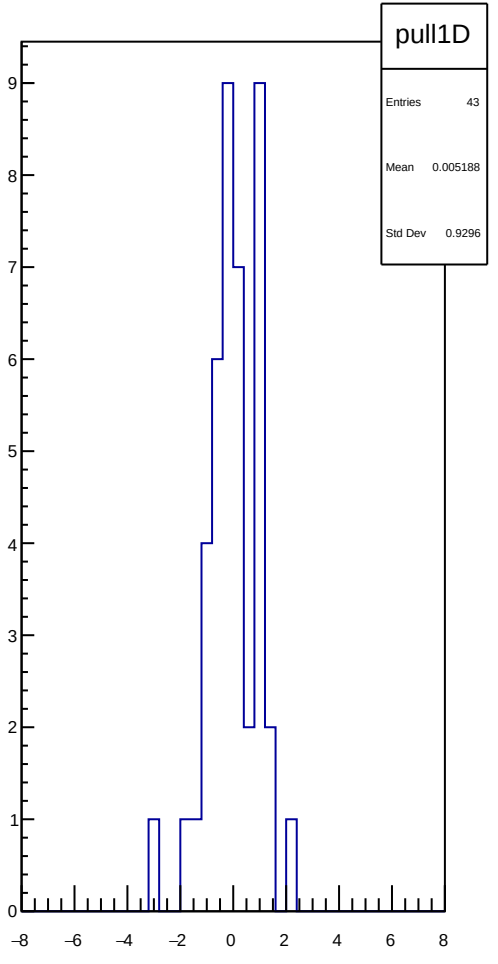

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.91e+05 / 42
p0 58.83 ± 0.07123
200
180
160
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

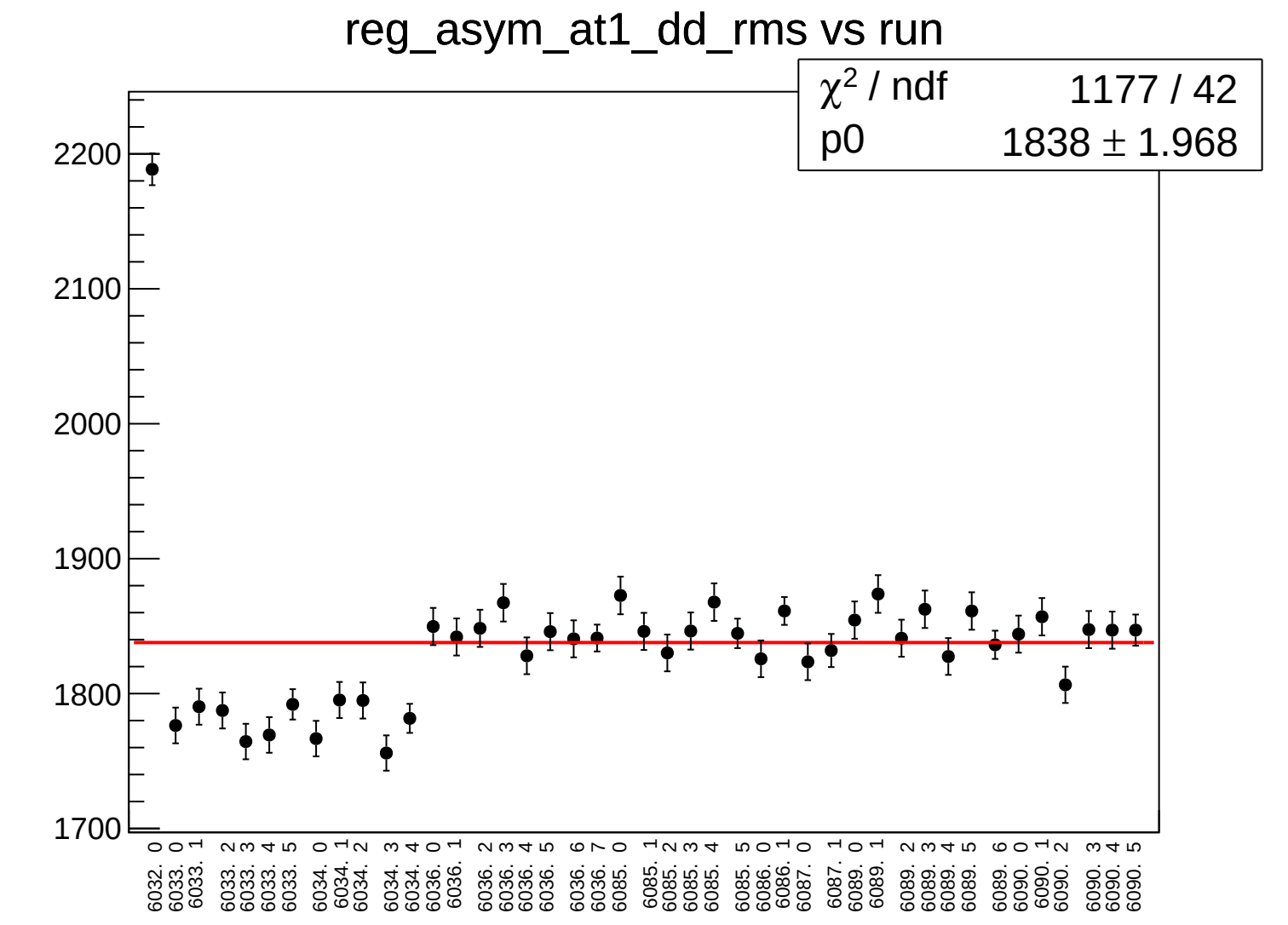

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 43.89 / 42
p0 −2.374e−14 ± 3.735e−14
pull
Entries 43
Mean 2503
Std Dev 0

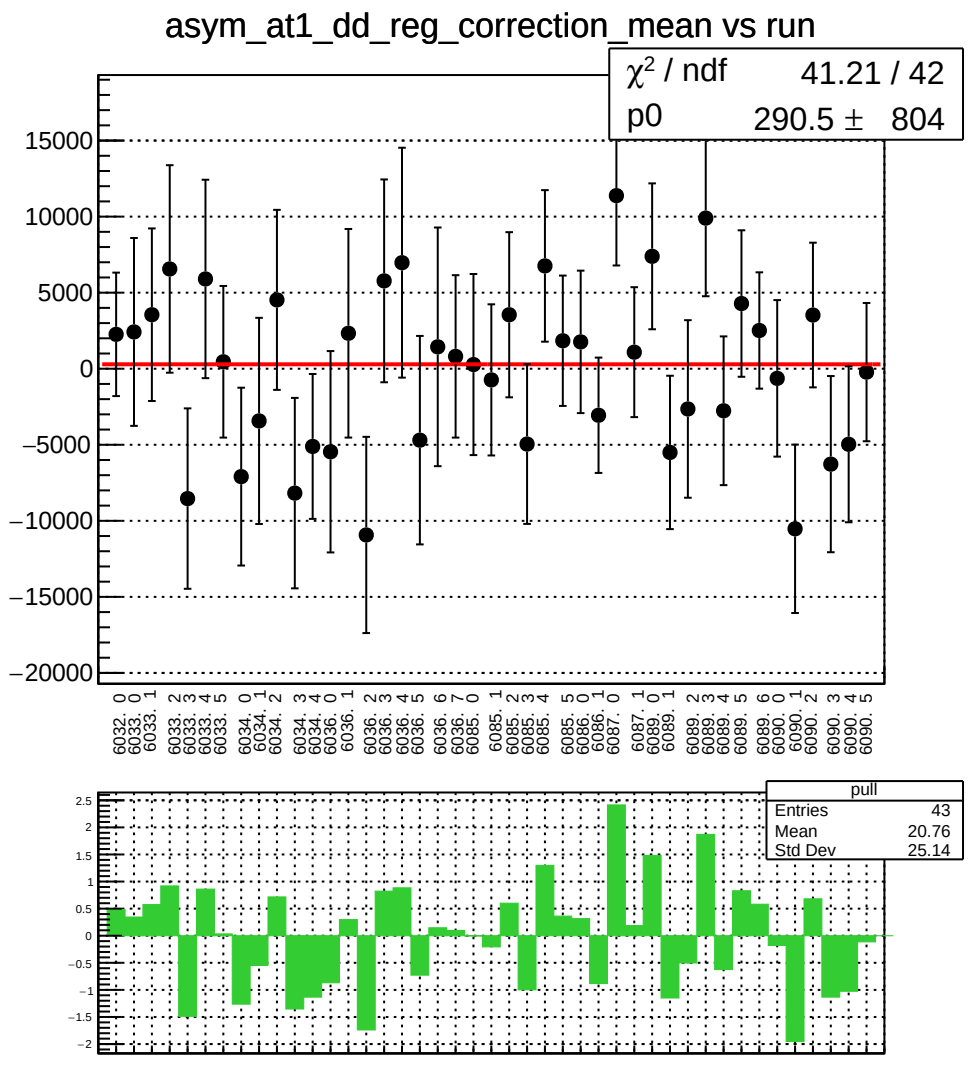

pull1D
Entries 43
Mean −0.0003781
Std Dev 1.01

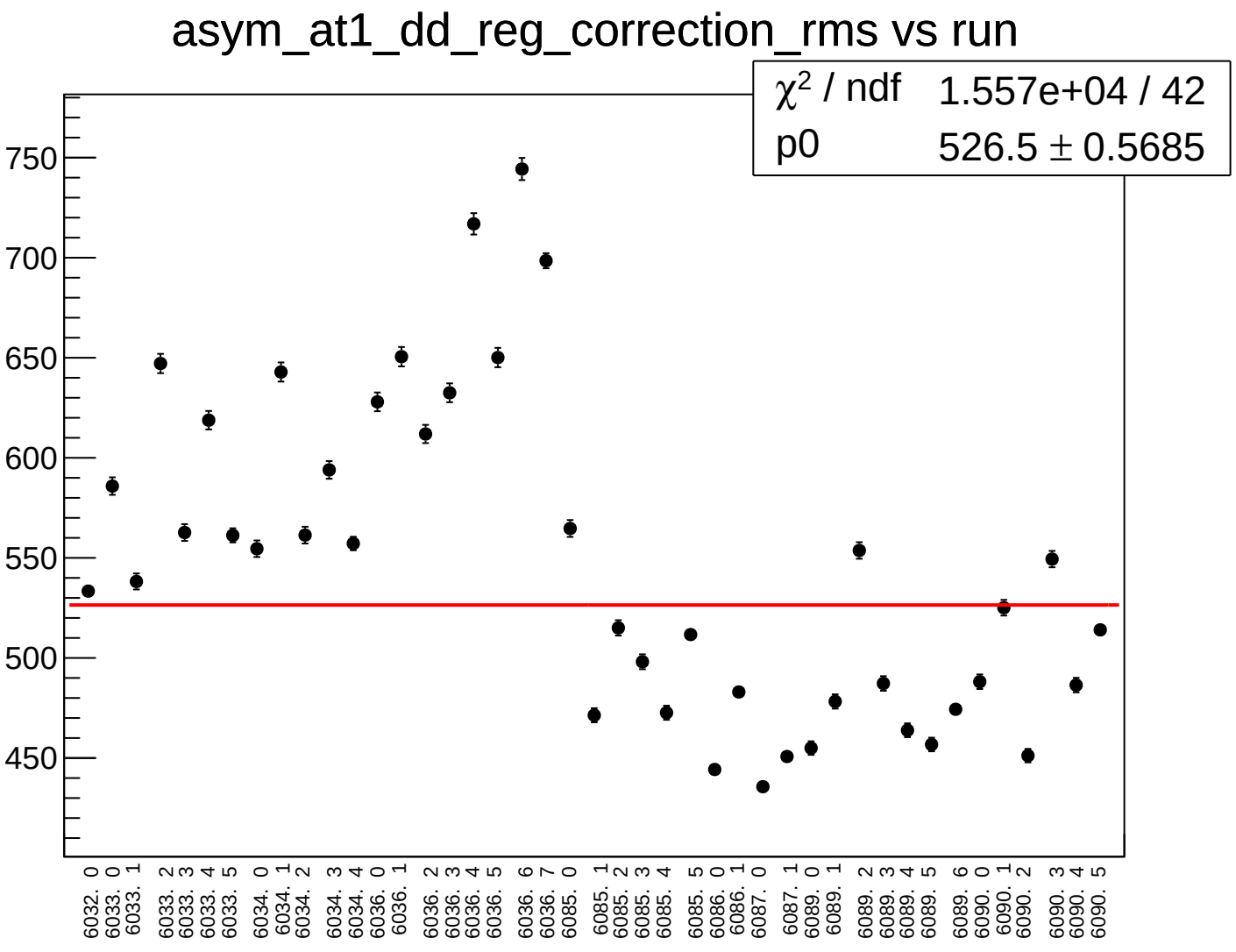

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.198e+05 / 42
p0 1.965e−11 ± 2.641e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

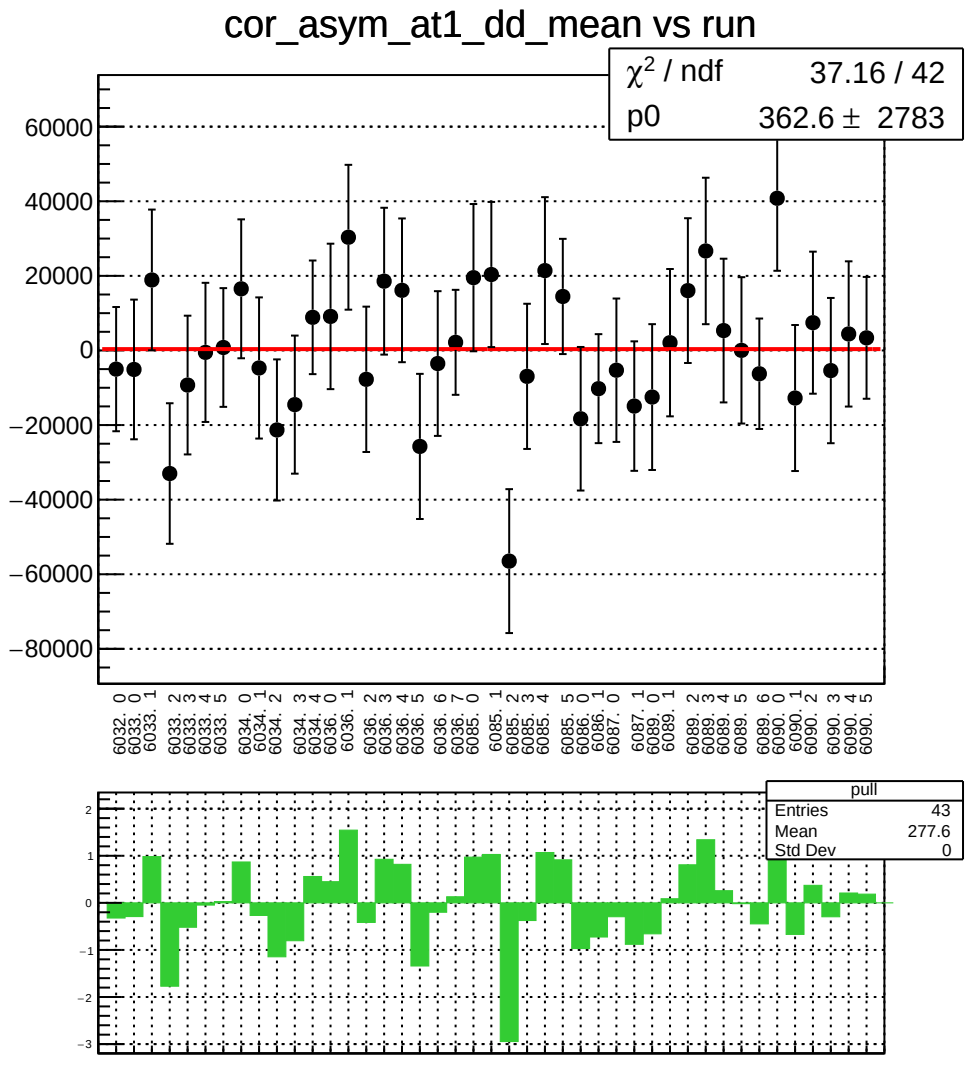

reg_asym_at1_dd_mean vs run
χ² / ndf 37.16 / 42
p0 362.6 ± 2783
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 277.4
Std Dev 0
2
1
0
−1
−2
−3

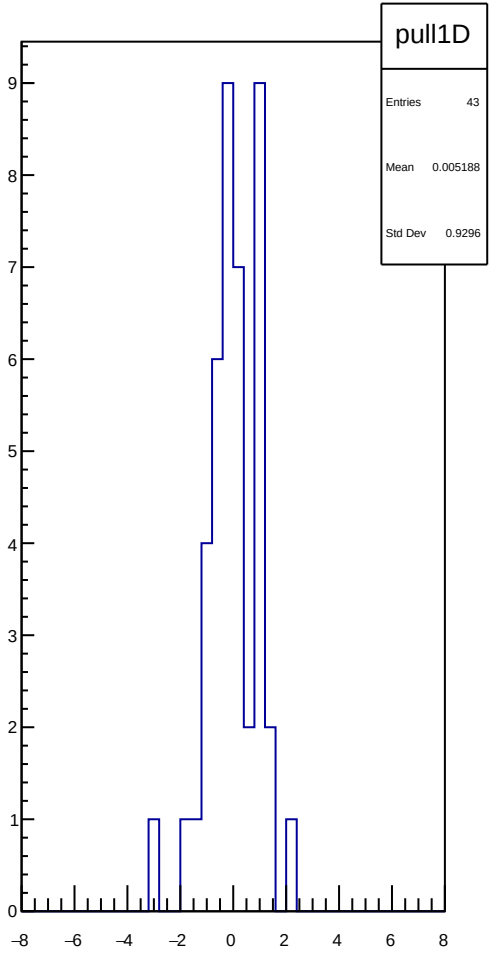

pull1D
Entries 43
Mean 0.005188
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

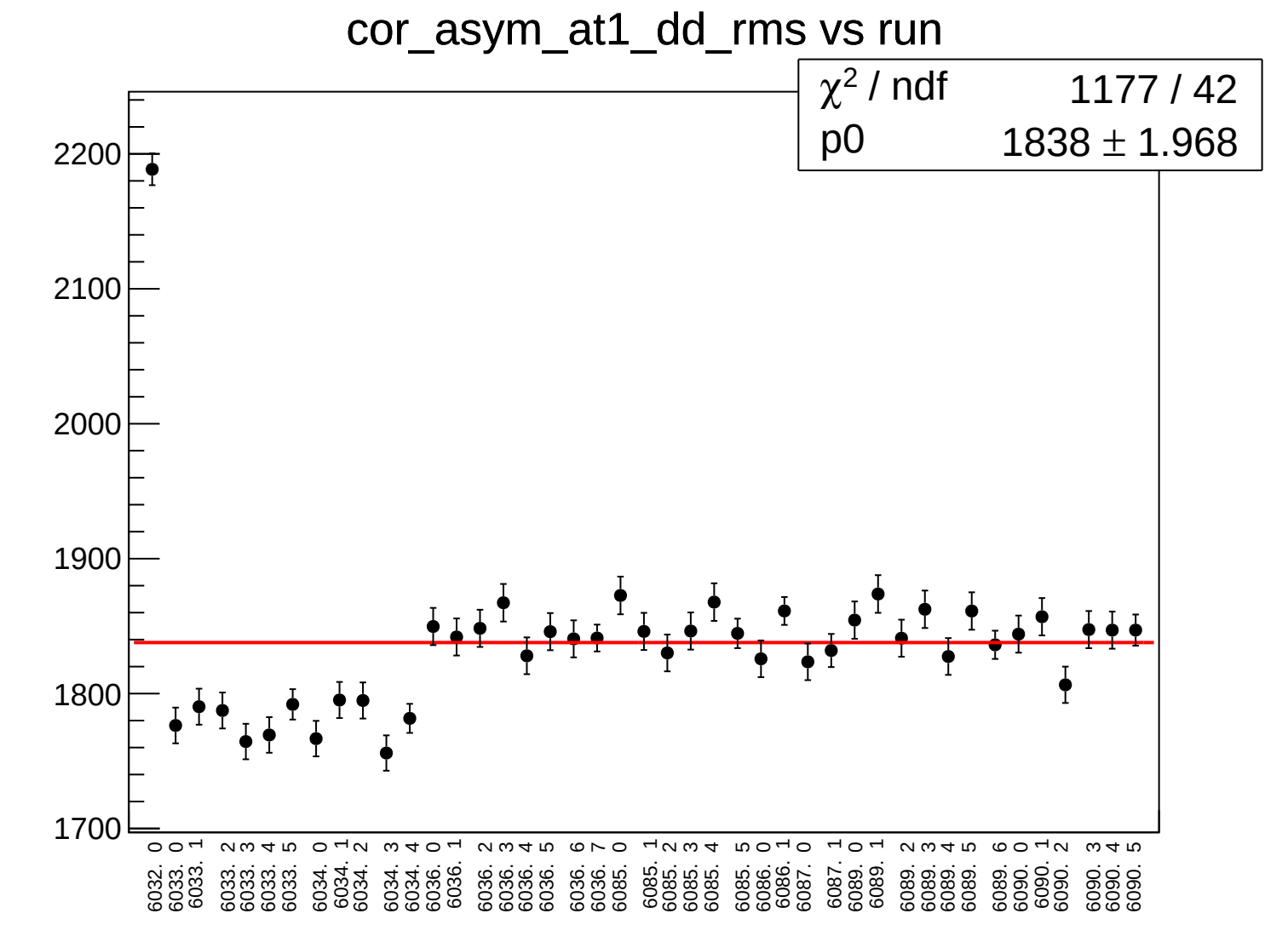

reg_asym_at1_dd_rms vs run
χ² / ndf 1177 / 42
p0 1838 ± 1.968
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

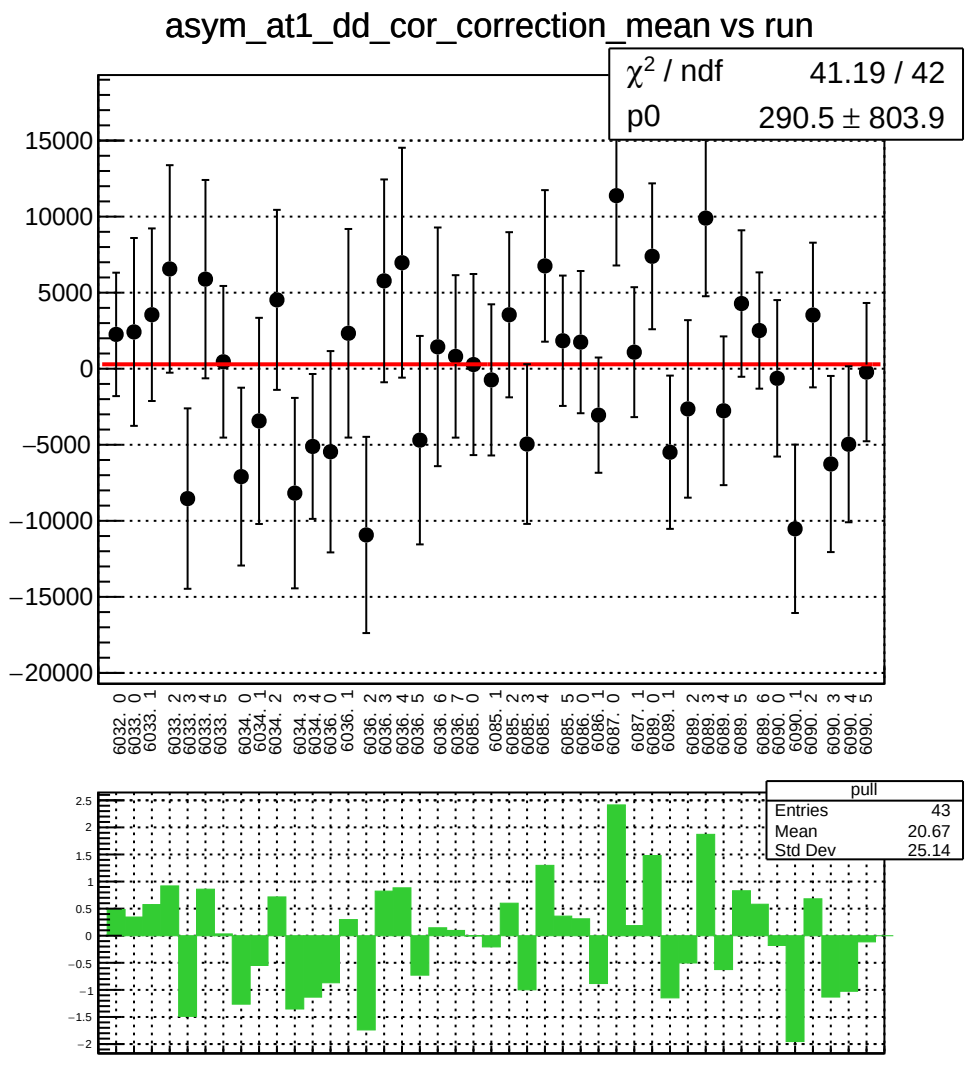

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 41.21 / 42
p0 290.5 ± 804
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.76
Std Dev 25.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02542
Std Dev 0.9786
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

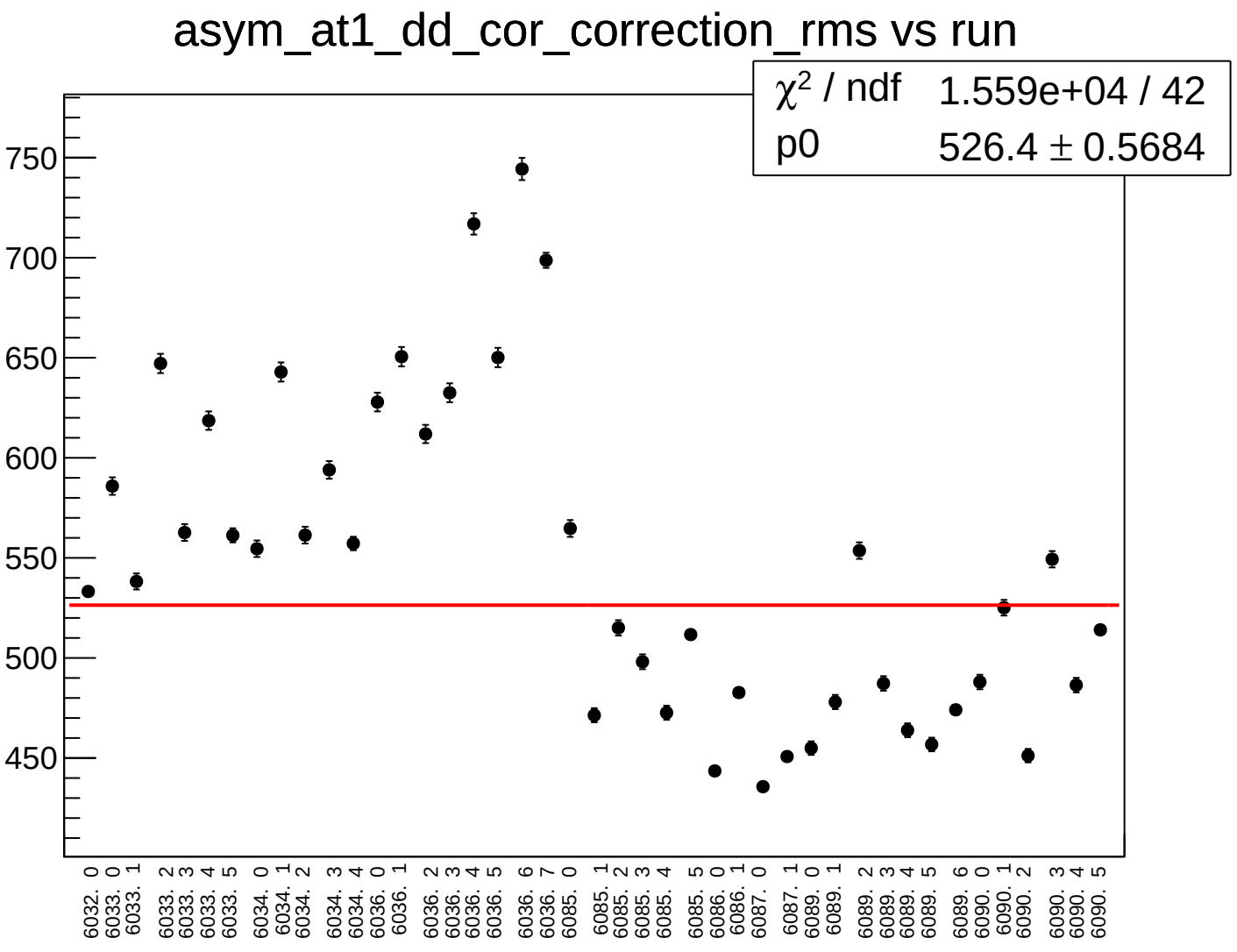

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.557e+04 / 42
p0 526.5 ± 0.5685
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

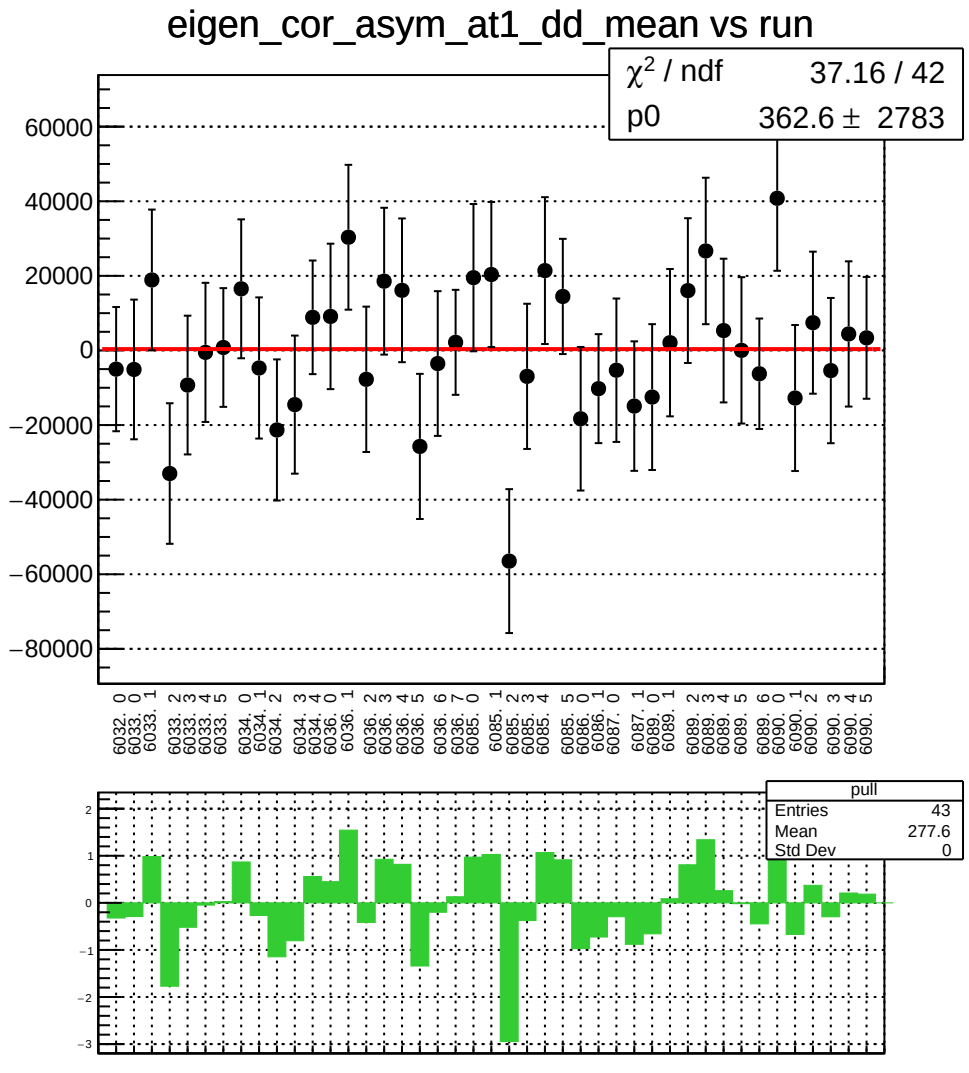

cor_asym_at1_dd_mean vs run
χ² / ndf 37.16 / 42
p0 362.6 ± 2783
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 277.6
Std Dev 0
2
1
0
−1
−2
−3

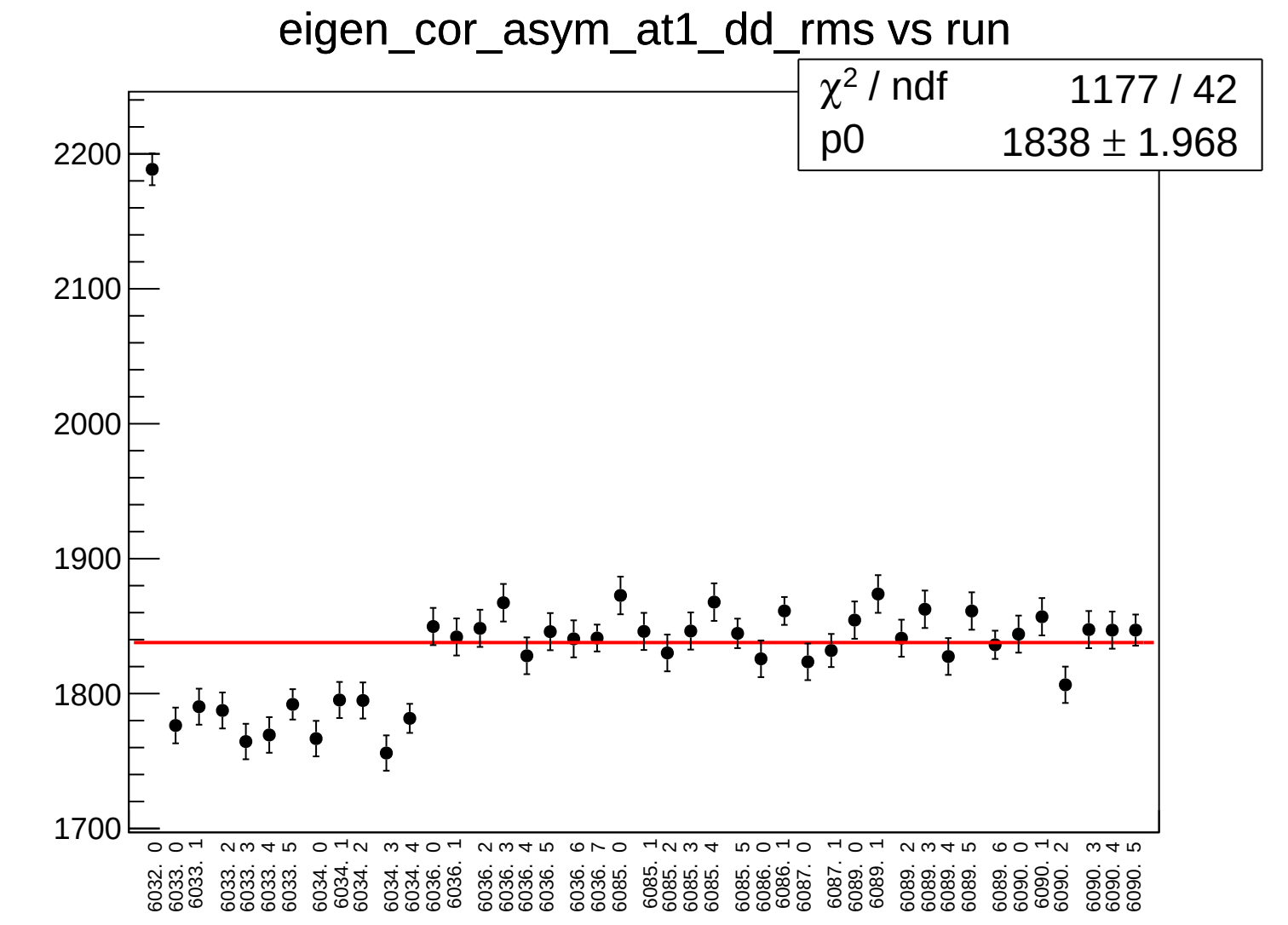

pull1D
Entries 43
Mean 0.005188
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_rms vs run
χ² / ndf 1177 / 42
p0 1838 ± 1.968
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 41.19 / 42
p0 290.5 ± 803.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.67
Std Dev 25.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02542
Std Dev 0.9784
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 1.559e+04 / 42
p0 526.4 ± 0.5684
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 37.16 / 42
p0 362.6 ± 2783
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 277.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005188
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 1177 / 42
p0 1838 ± 1.968
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
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6085. 2
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6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
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6090. 2
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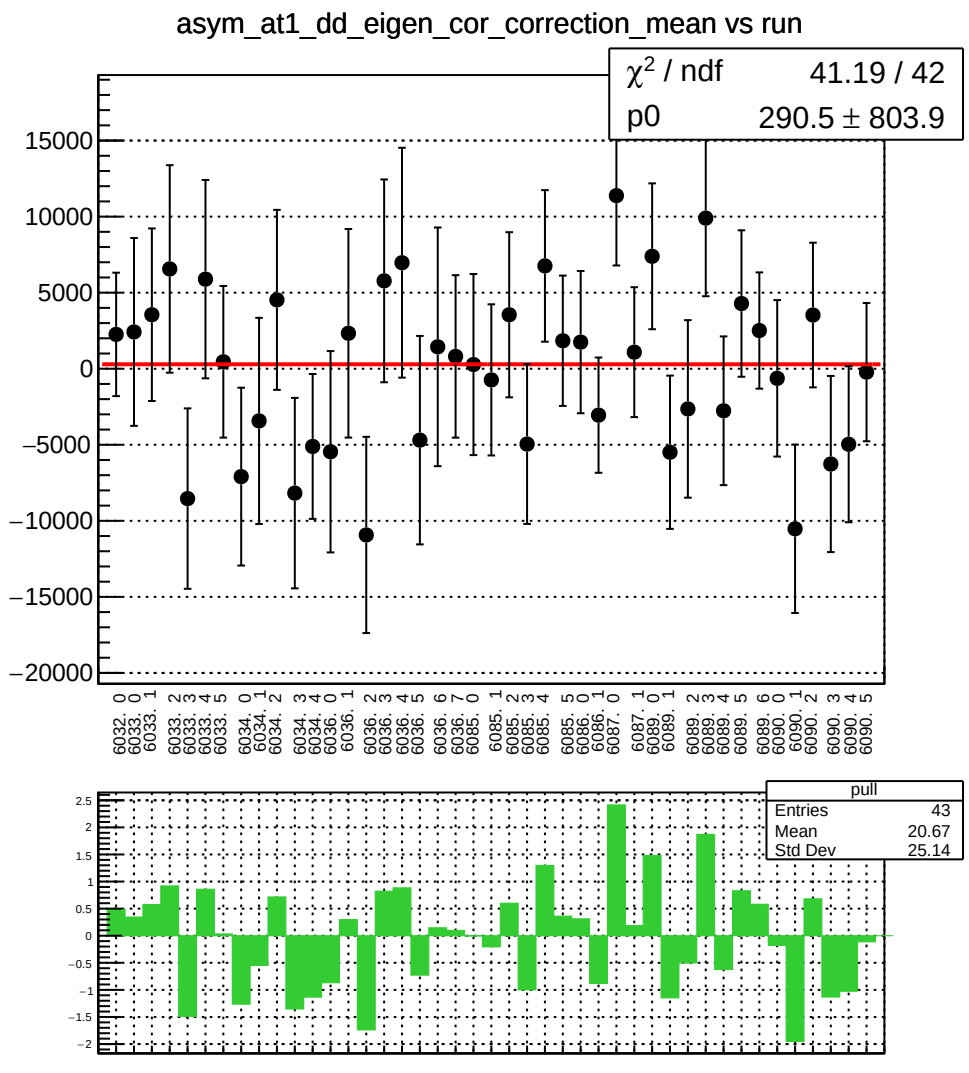
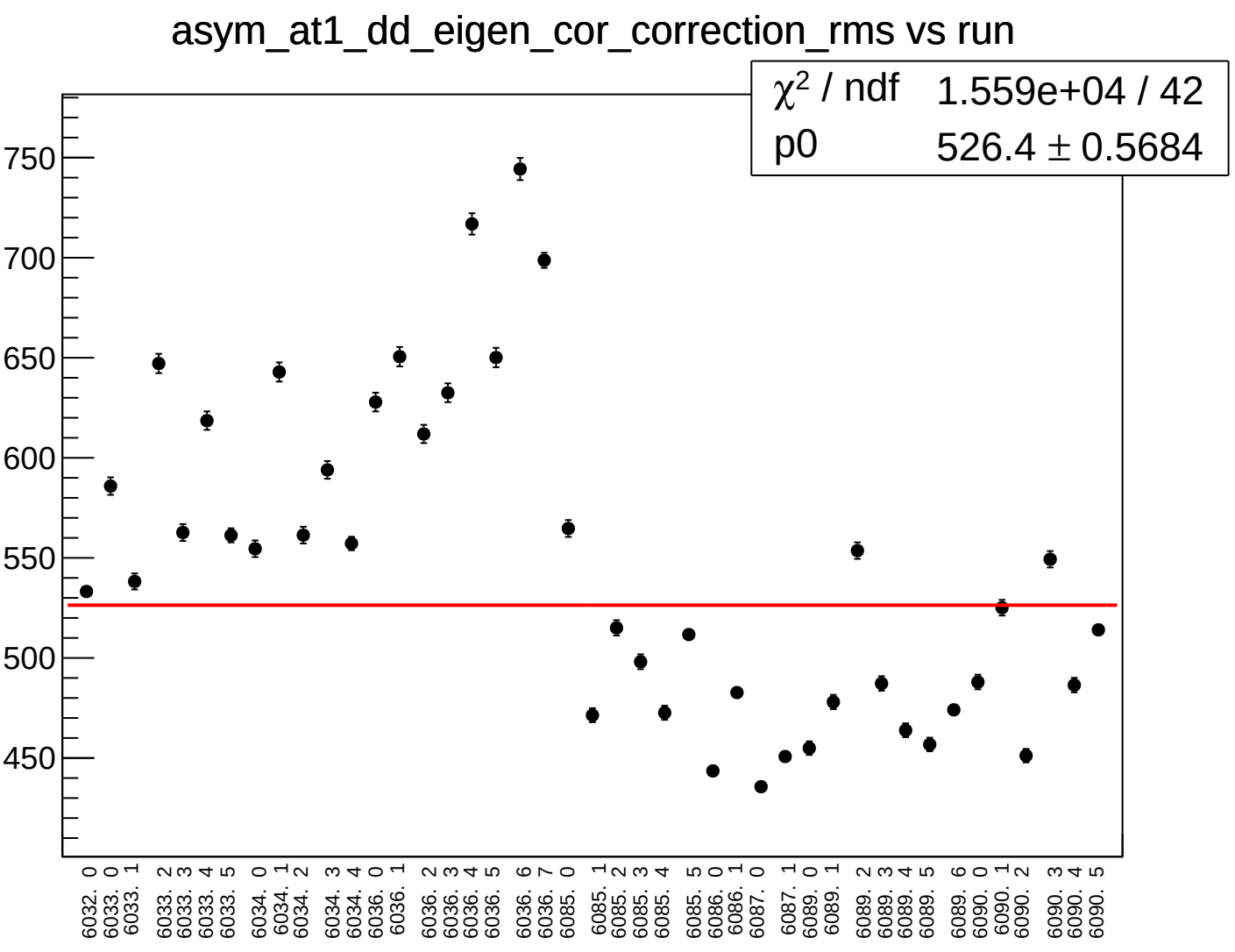
6090. 5


asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.19 / 42
p0 290.5 ± 803.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.67
Std Dev 25.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02542
Std Dev 0.9784
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.559e+04 / 42
p0 526.4 ± 0.5684
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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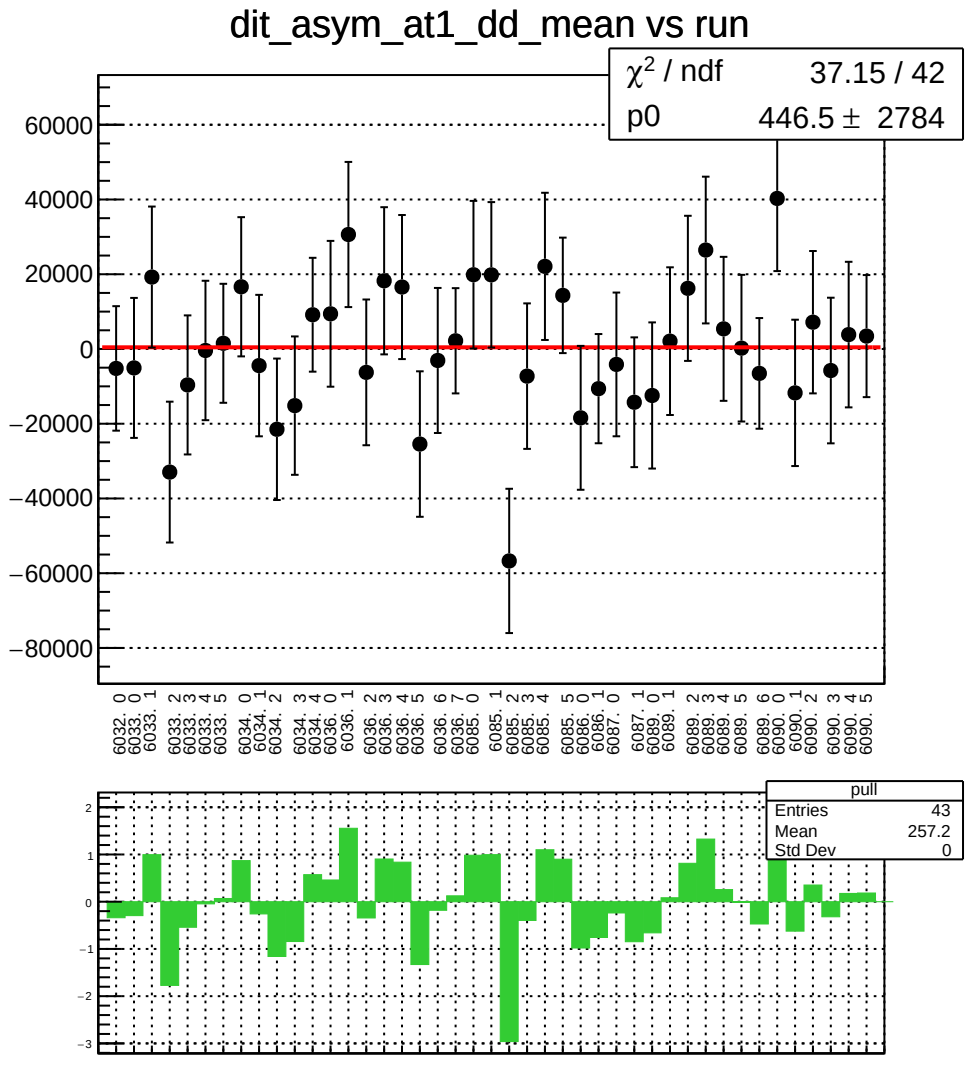
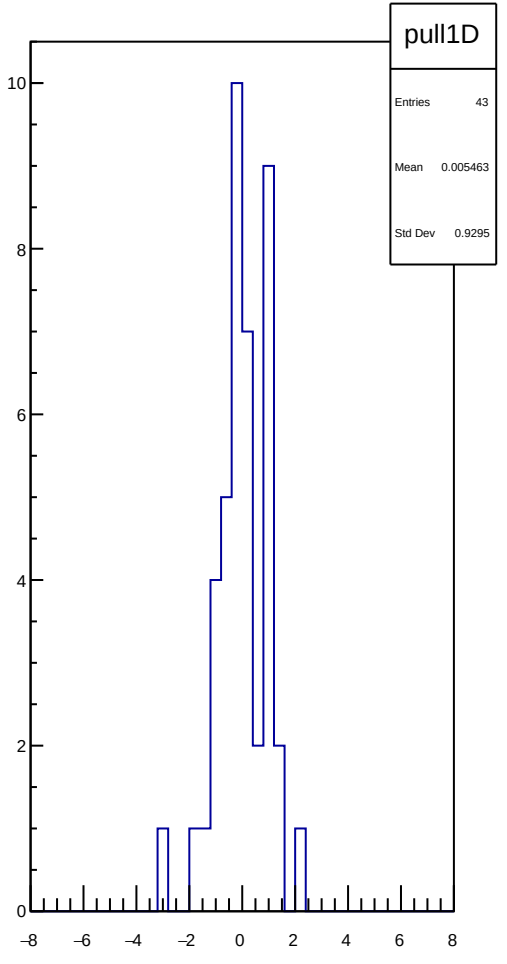
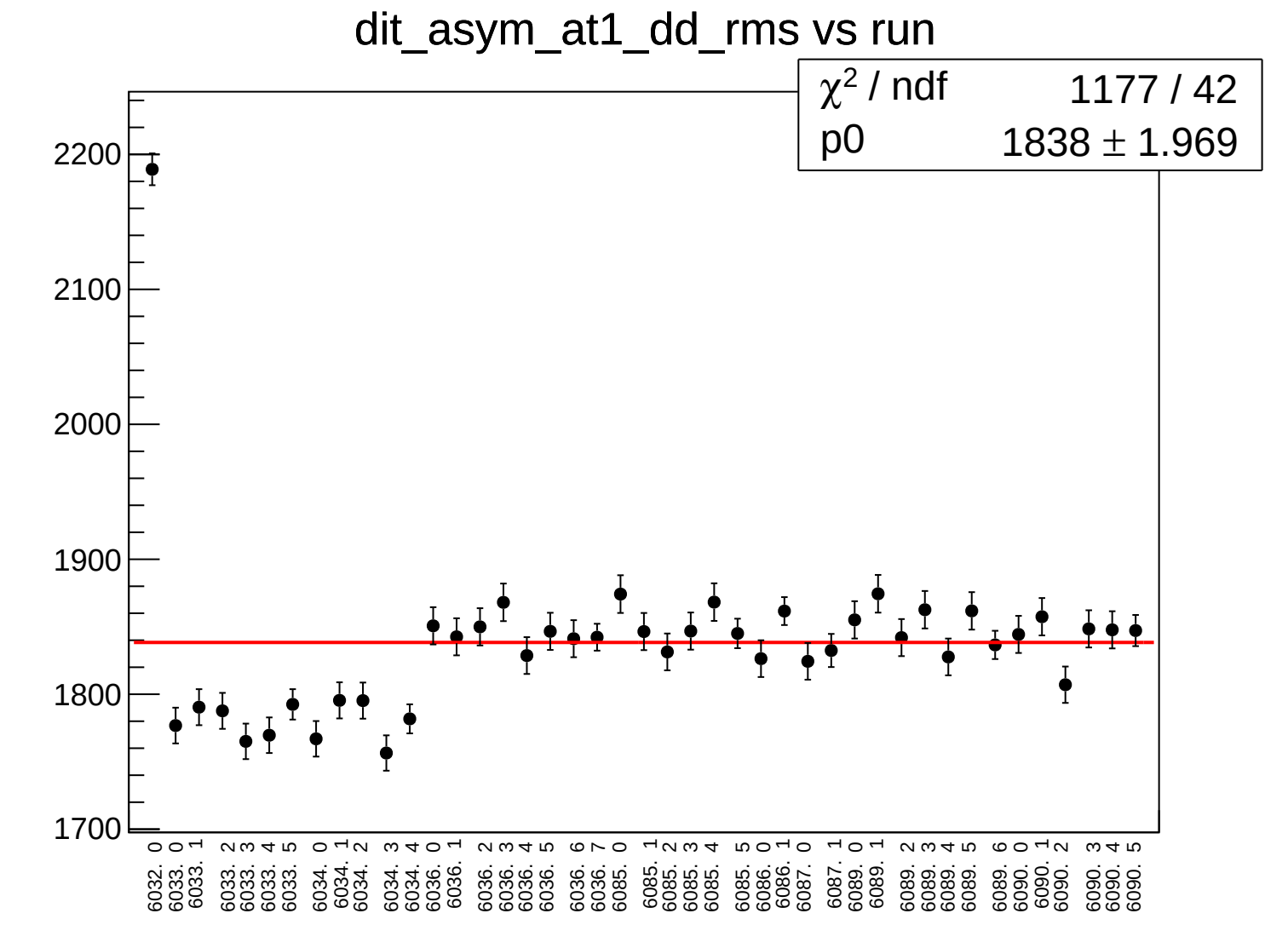
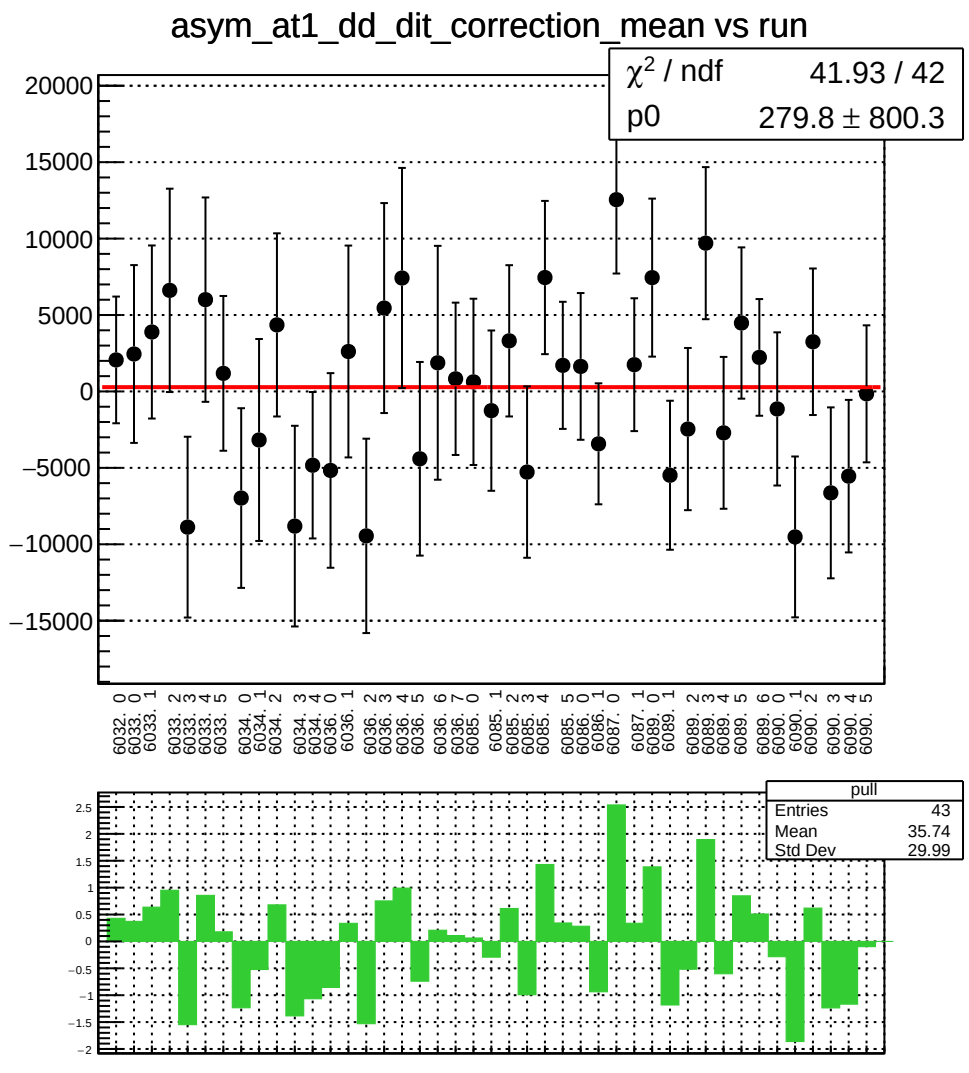
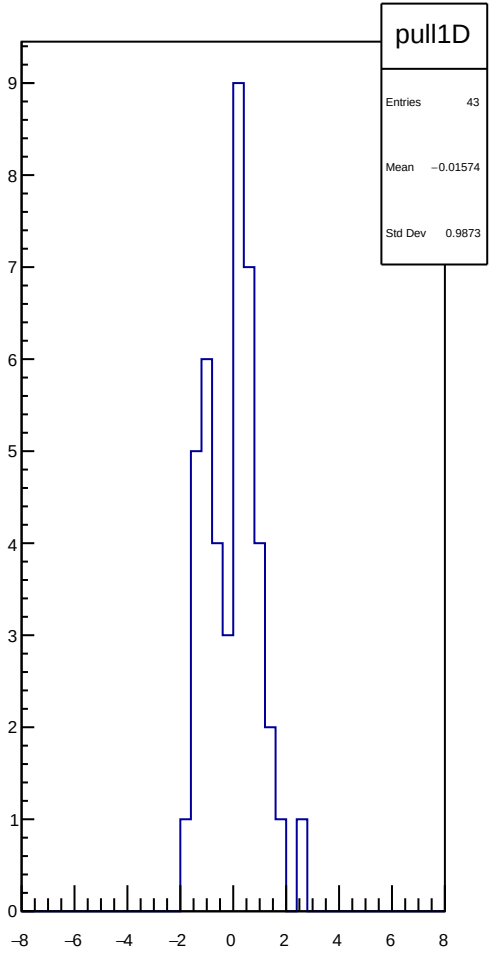
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

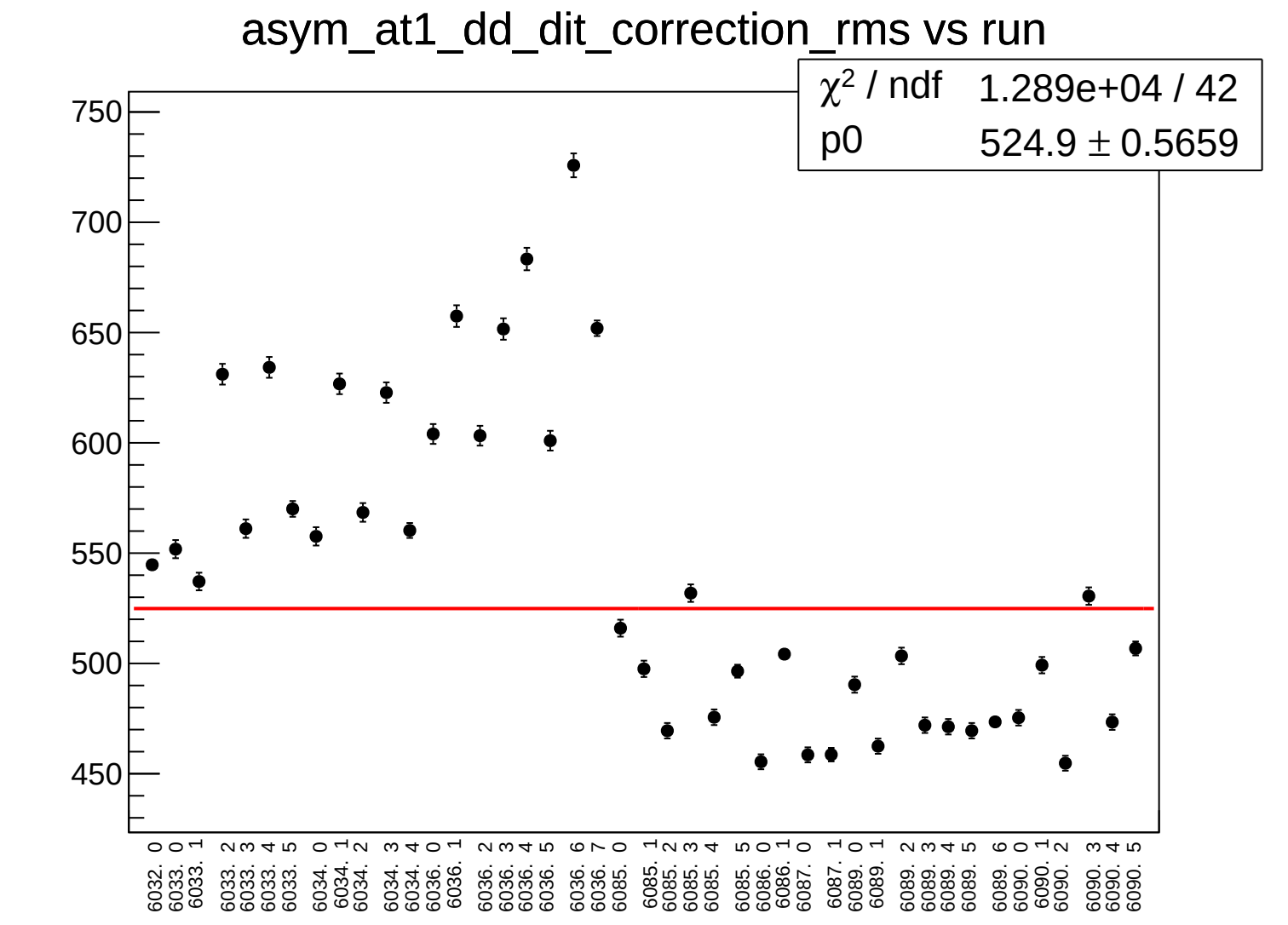

dit_asym_at1_dd_mean vs run
χ² / ndf 37.15 / 42
p0 446.5 ± 2784
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 257.2
Std Dev 0
2
1
0
−1
−2
−3

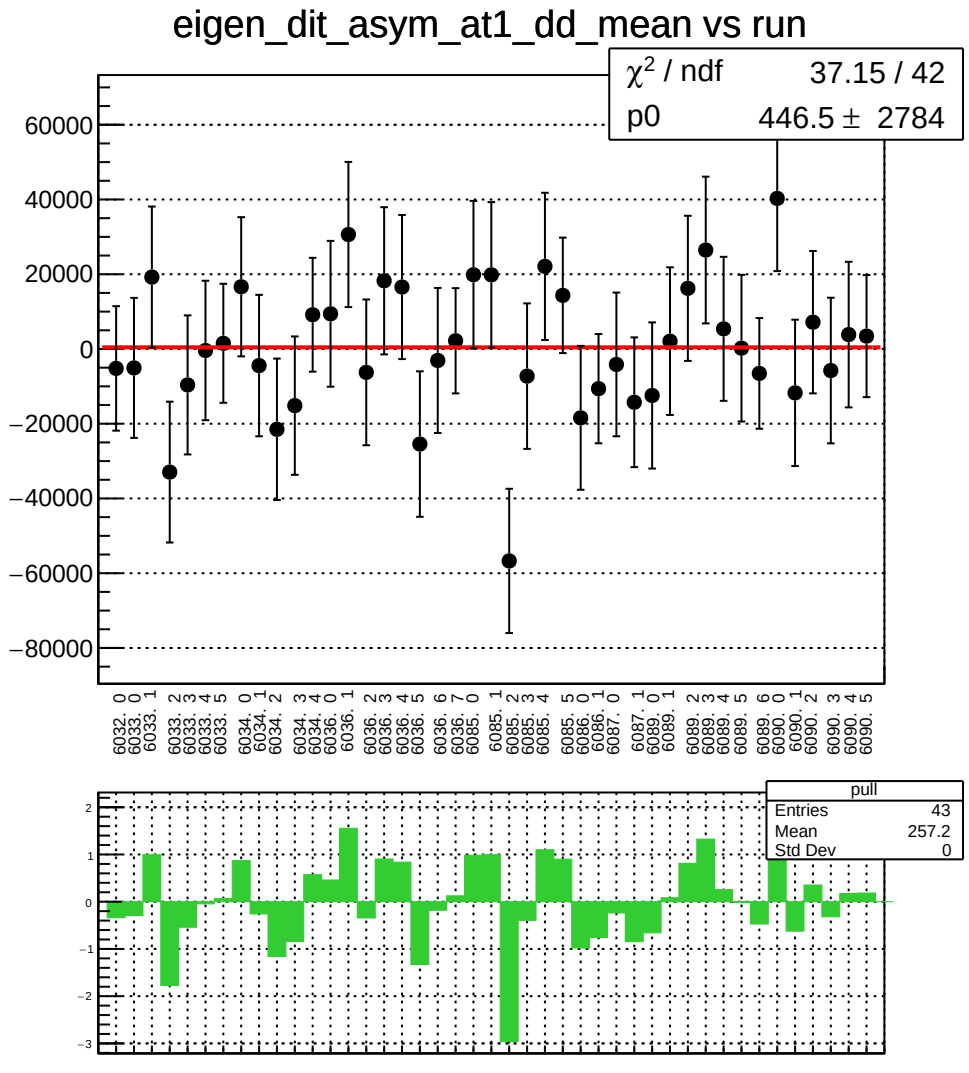

pull1D
Entries 43
Mean 0.005463
Std Dev 0.9295
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

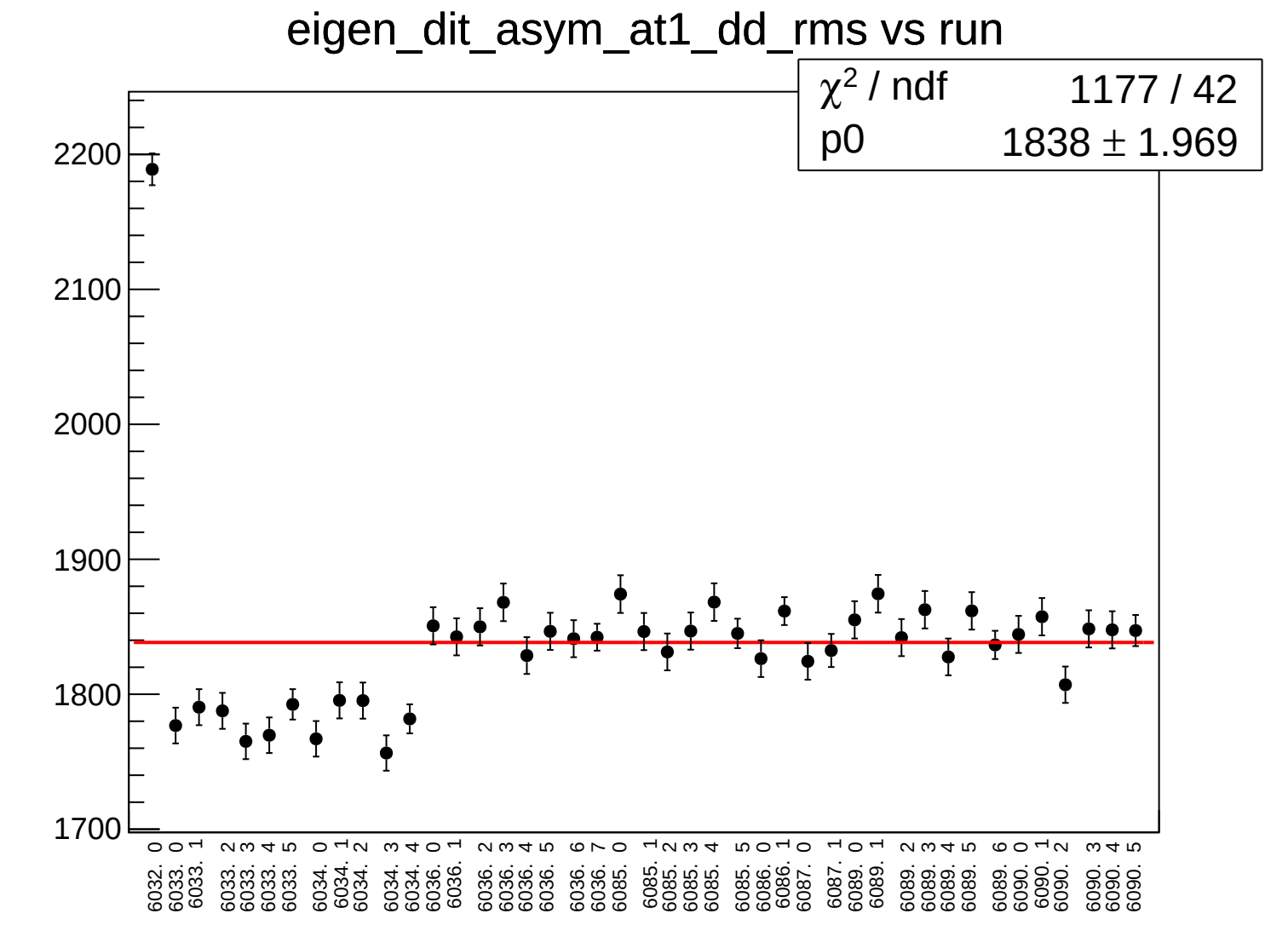

dit_asym_at1_dd_rms vs run
χ² / ndf 1177 / 42
p0 1838 ± 1.969
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

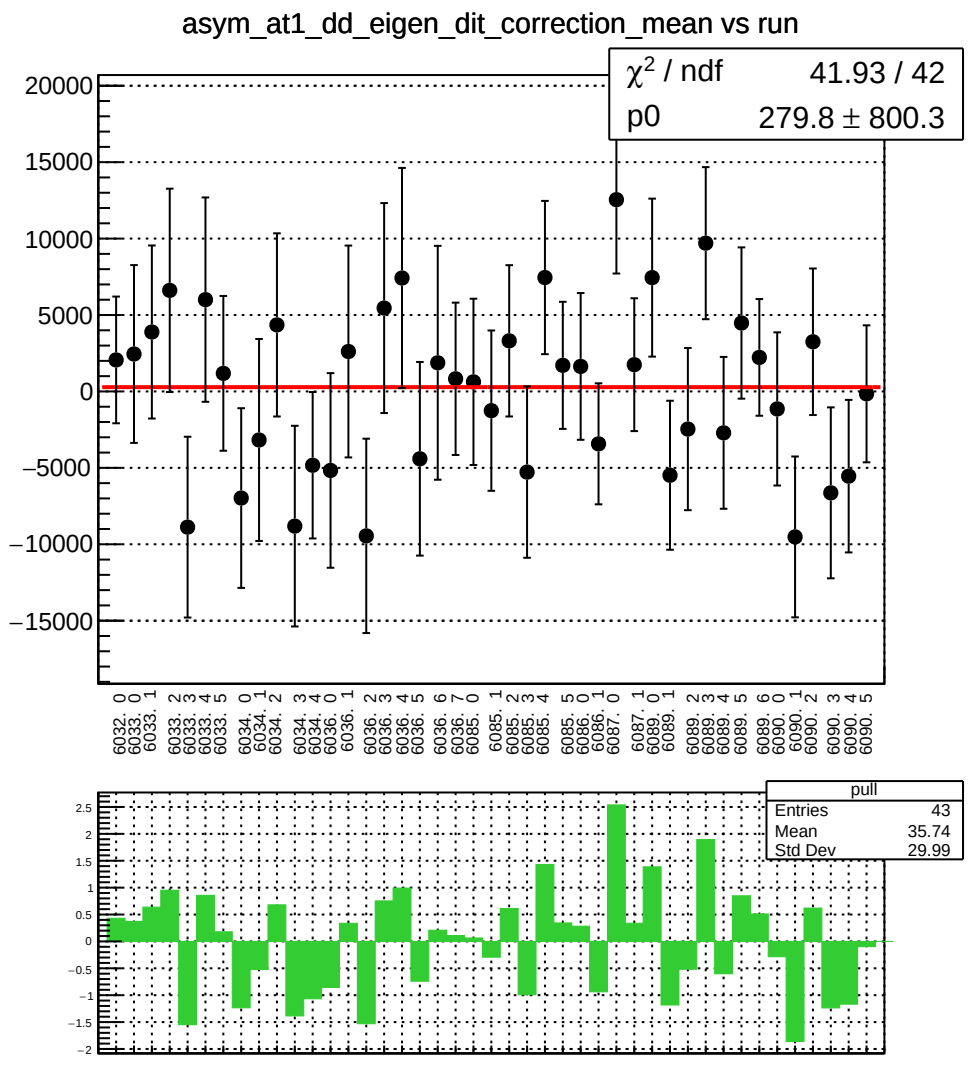

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 41.93 / 42
p0 279.8 ± 800.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 35.74
Std Dev 29.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

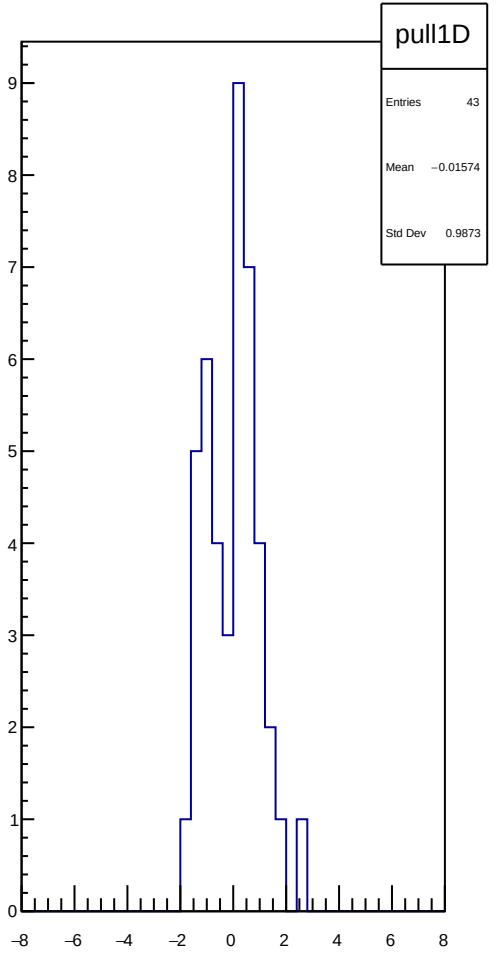

pull1D
Entries 43
Mean −0.01574
Std Dev 0.9873
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

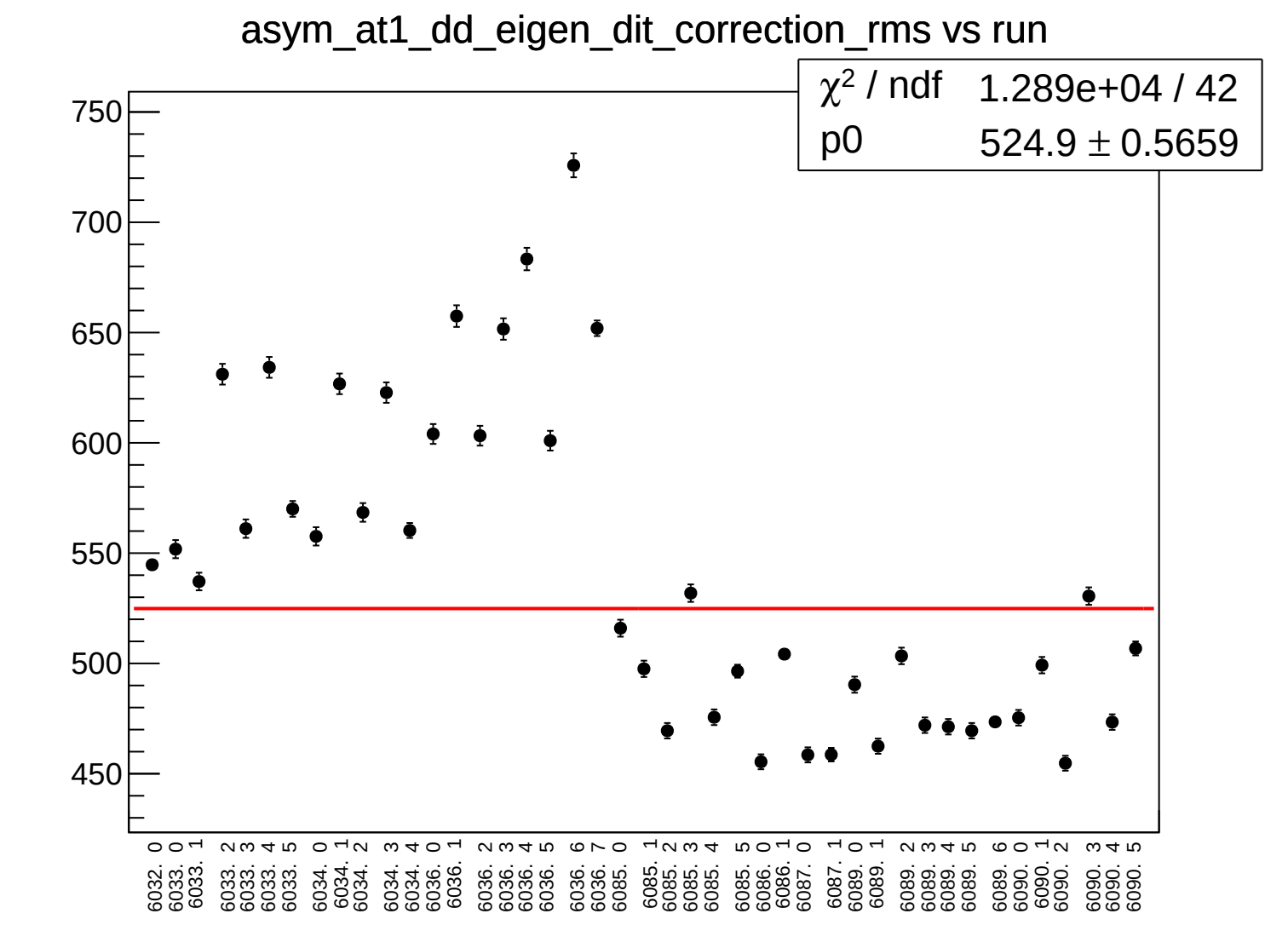

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.289e+04 / 42
p0 524.9 ± 0.5659
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

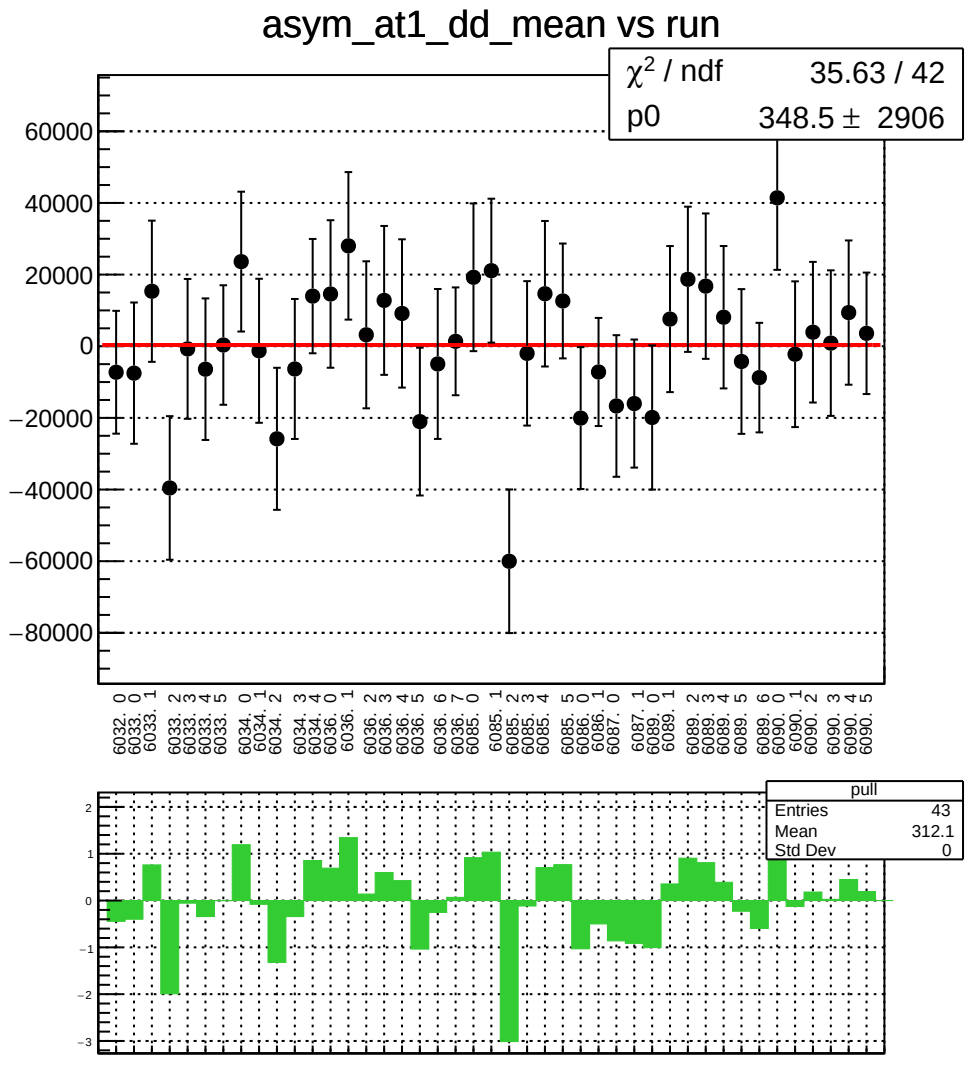

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 37.15 / 42
p0 446.5 ± 2784
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 257.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005463
Std Dev 0.9295
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

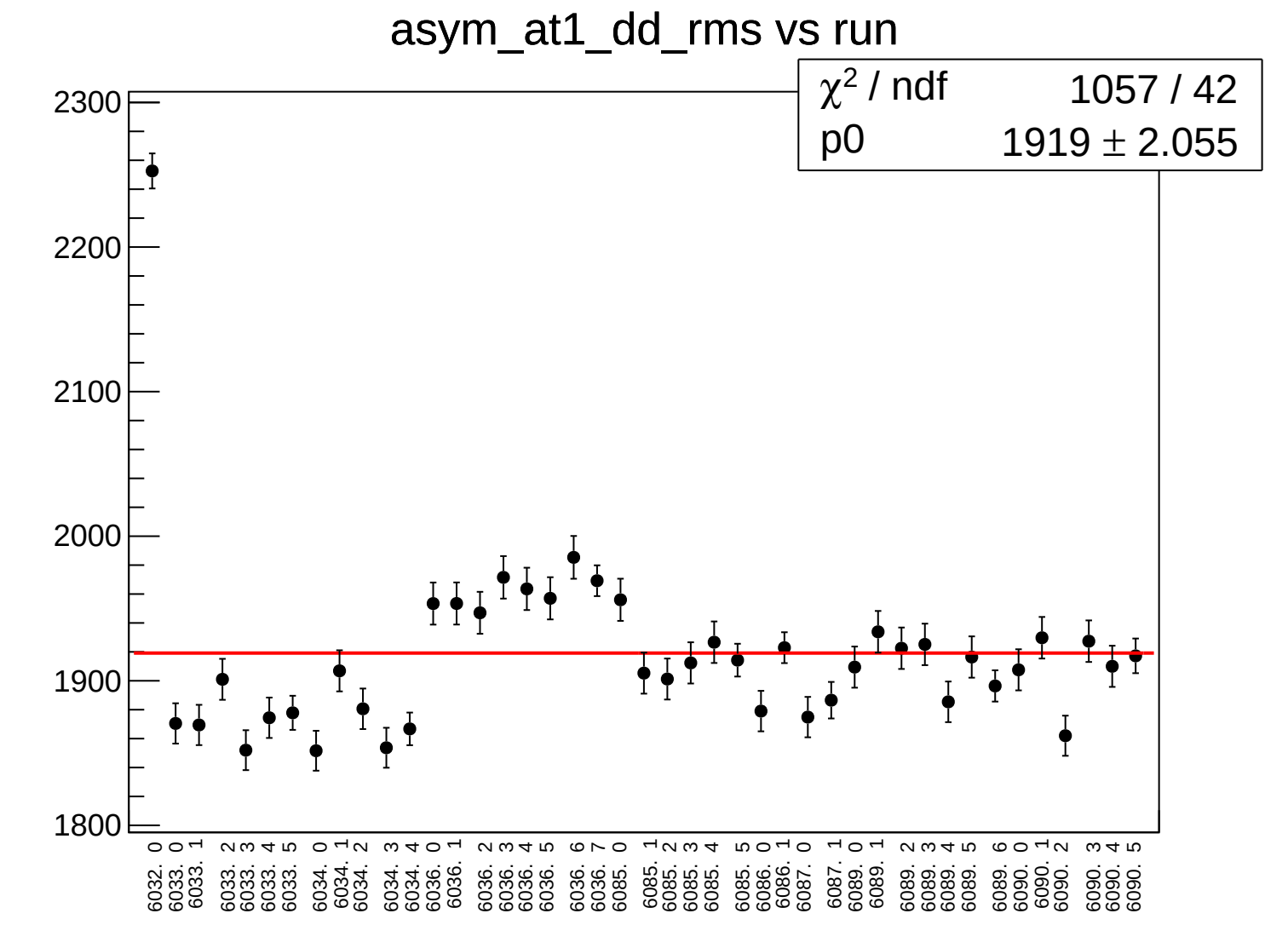

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 1177 / 42
p0 1838 ± 1.969
2200
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.93 / 42
p0 279.8 ± 800.3
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 35.74
Std Dev 29.99
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.01574
Std Dev 0.9873
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.289e+04 / 42
p0 524.9 ± 0.5659
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_at1_dd_mean vs run
χ² / ndf 35.63 / 42
p0 348.5 ± 2906
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 312.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004448
Std Dev 0.9103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 1057 / 42
p0 1919 ± 2.055
2300
2200
2100
2000
1900
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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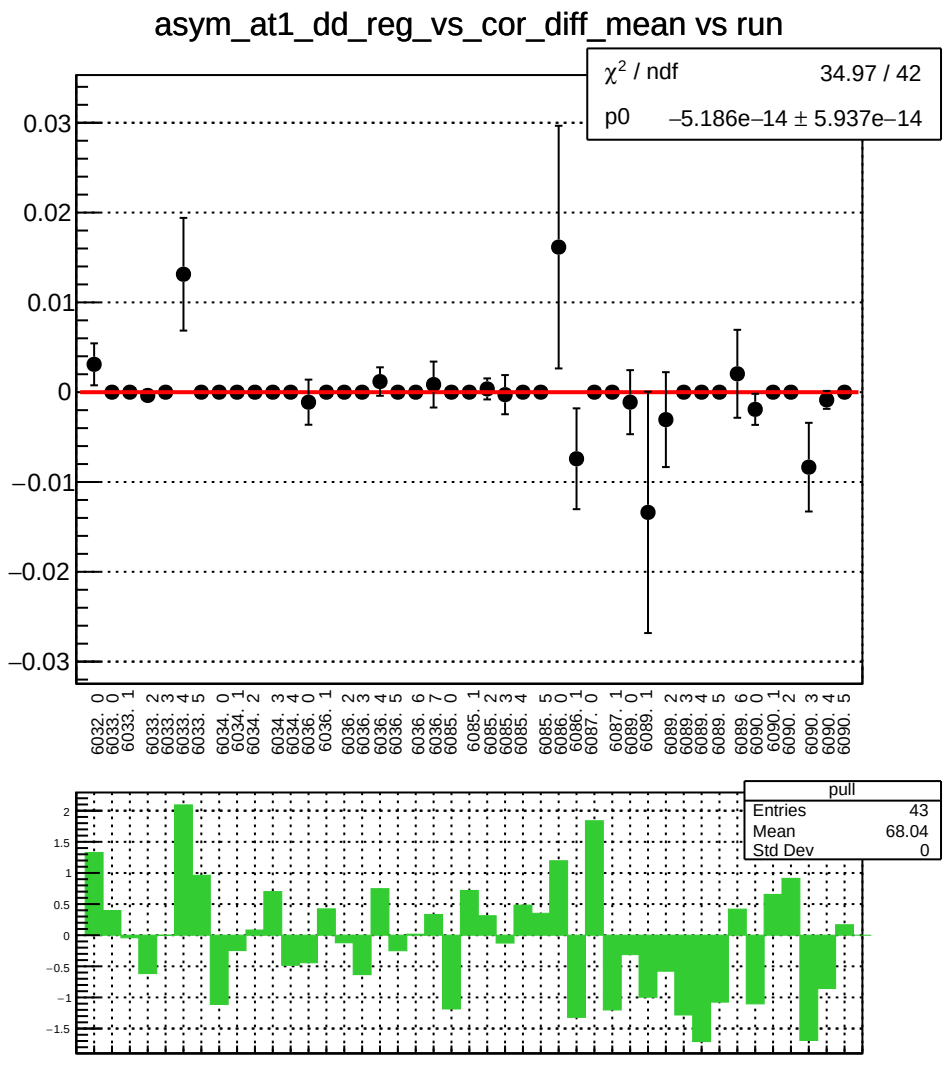
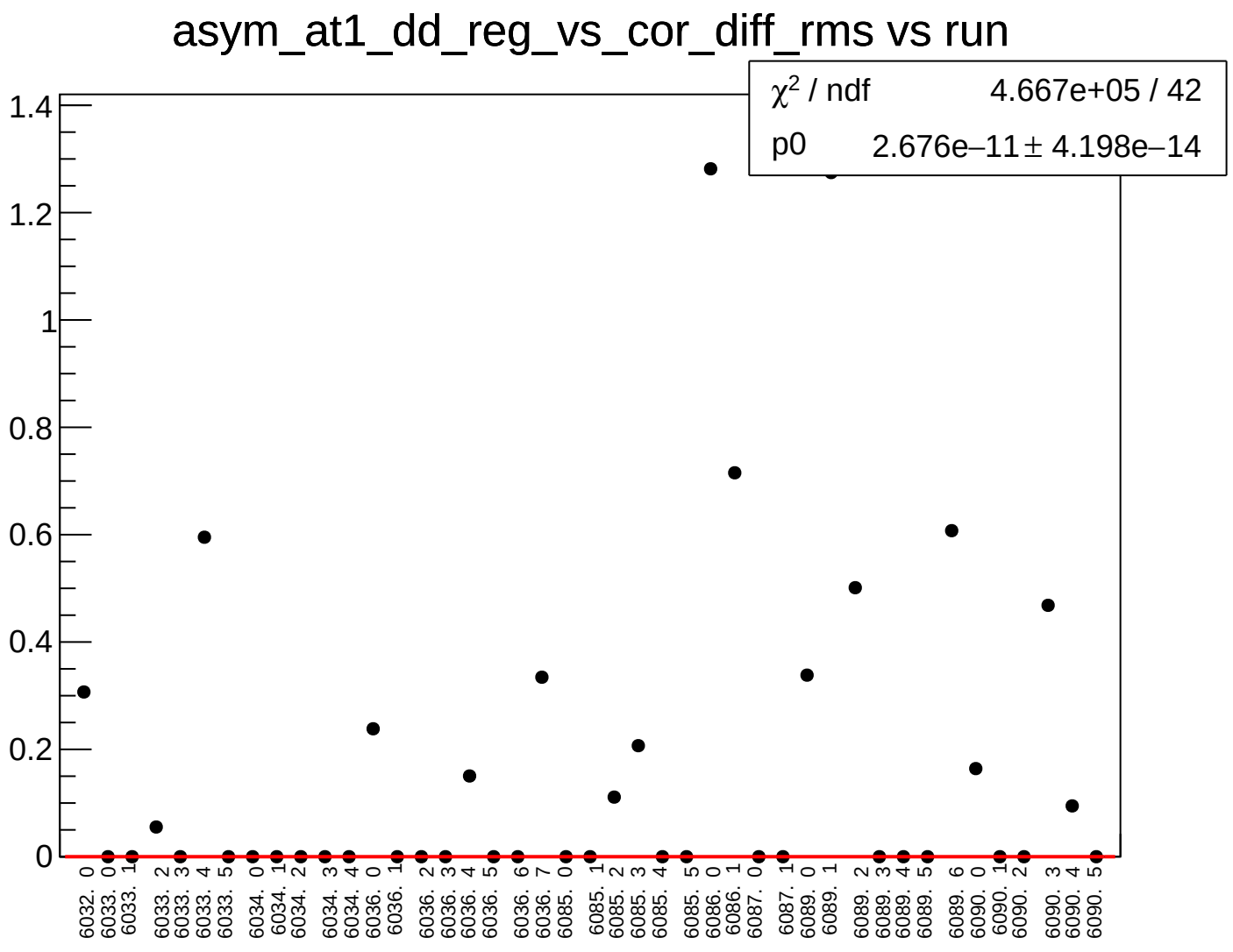
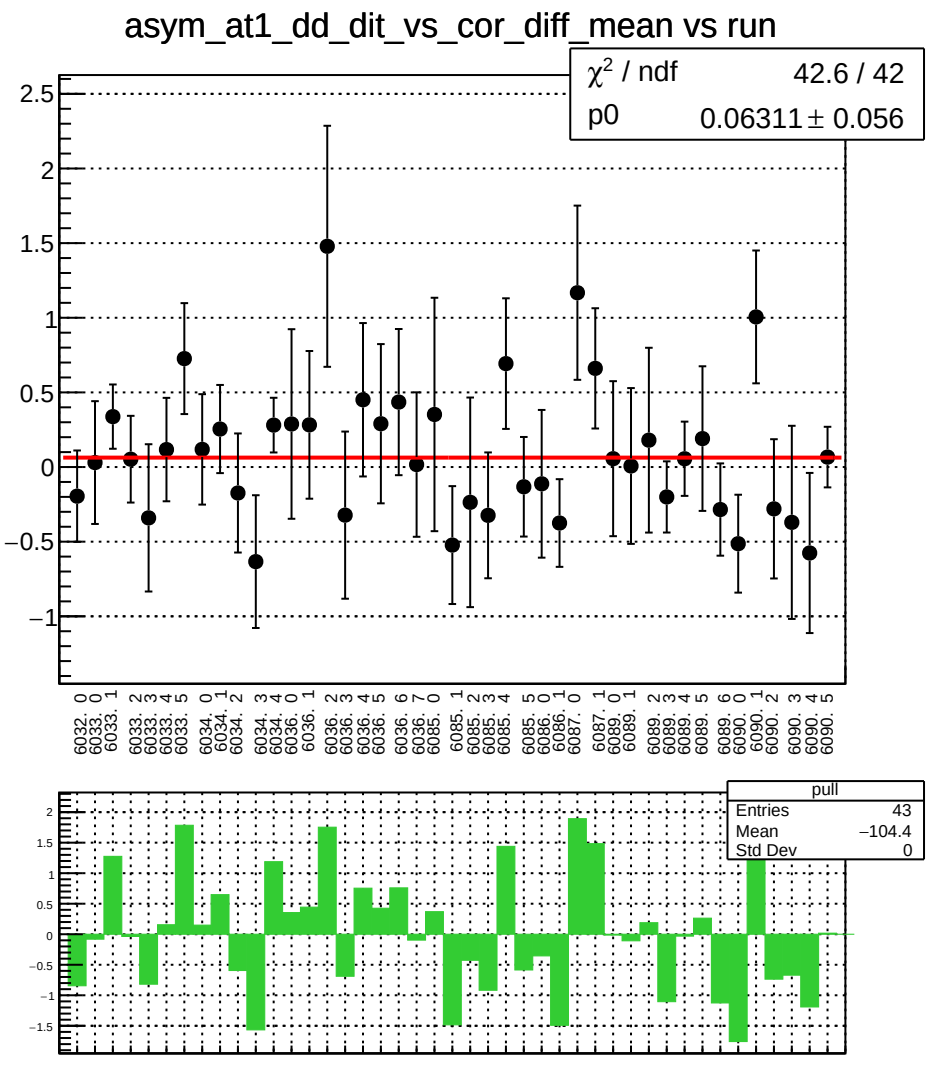
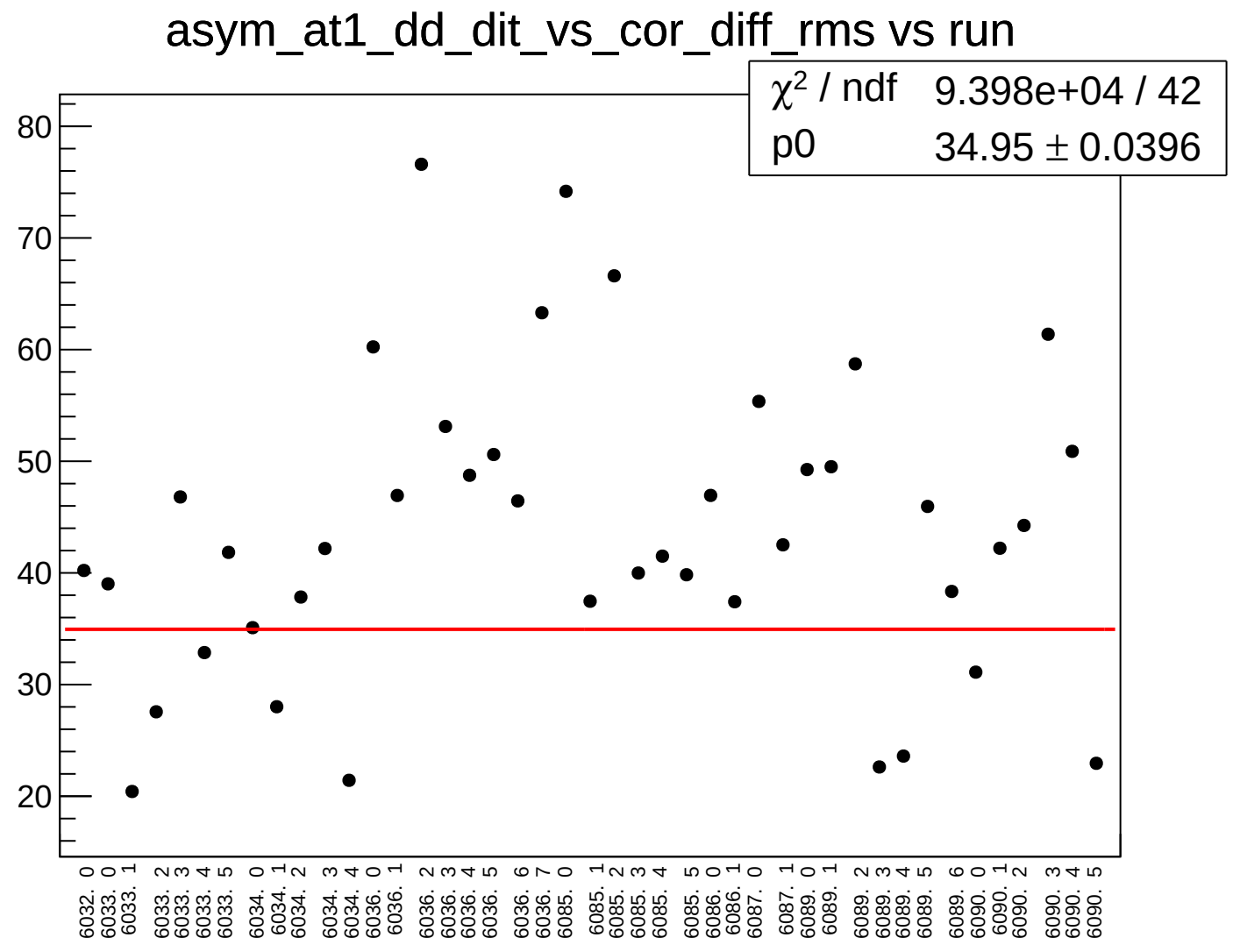
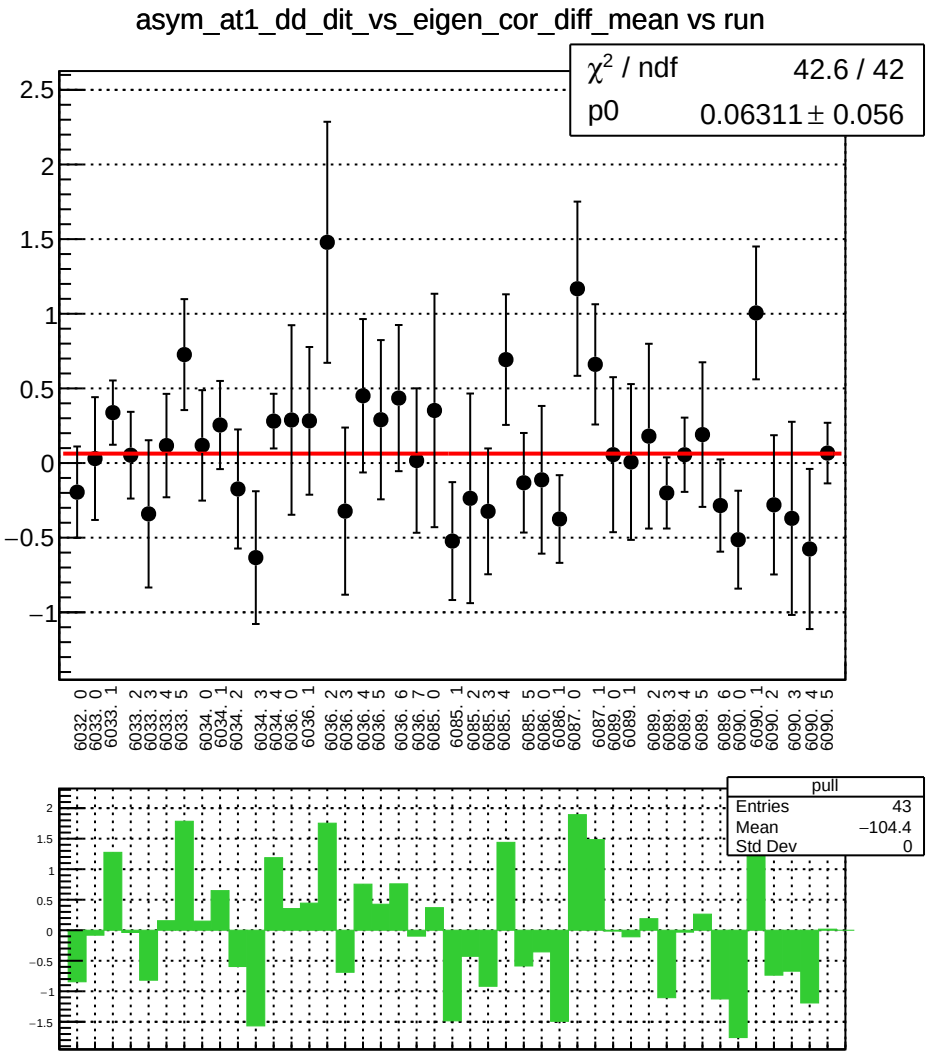
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

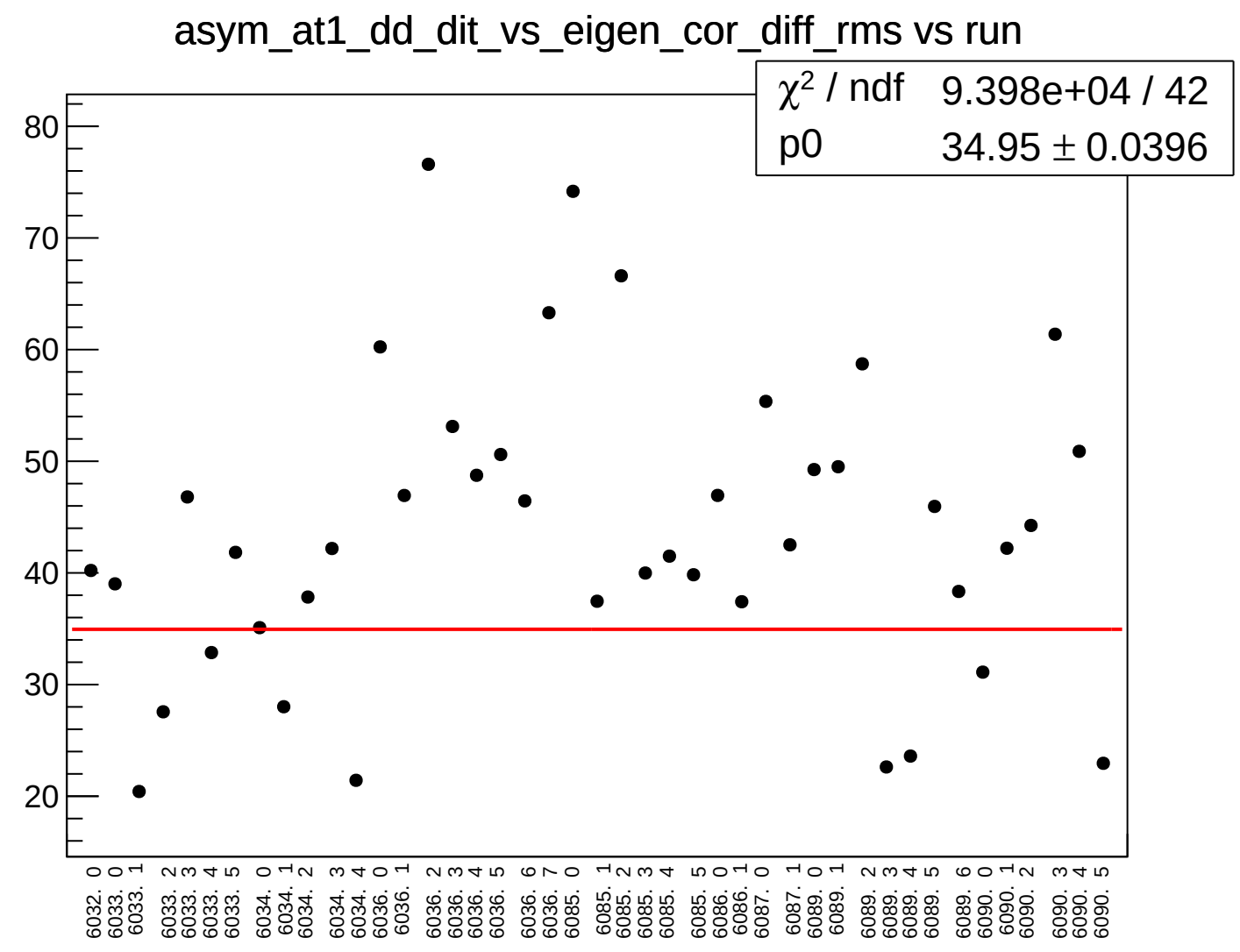

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.97 / 42
p0 −5.186e−14 ± 5.937e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 68.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.07546
Std Dev 0.8986
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

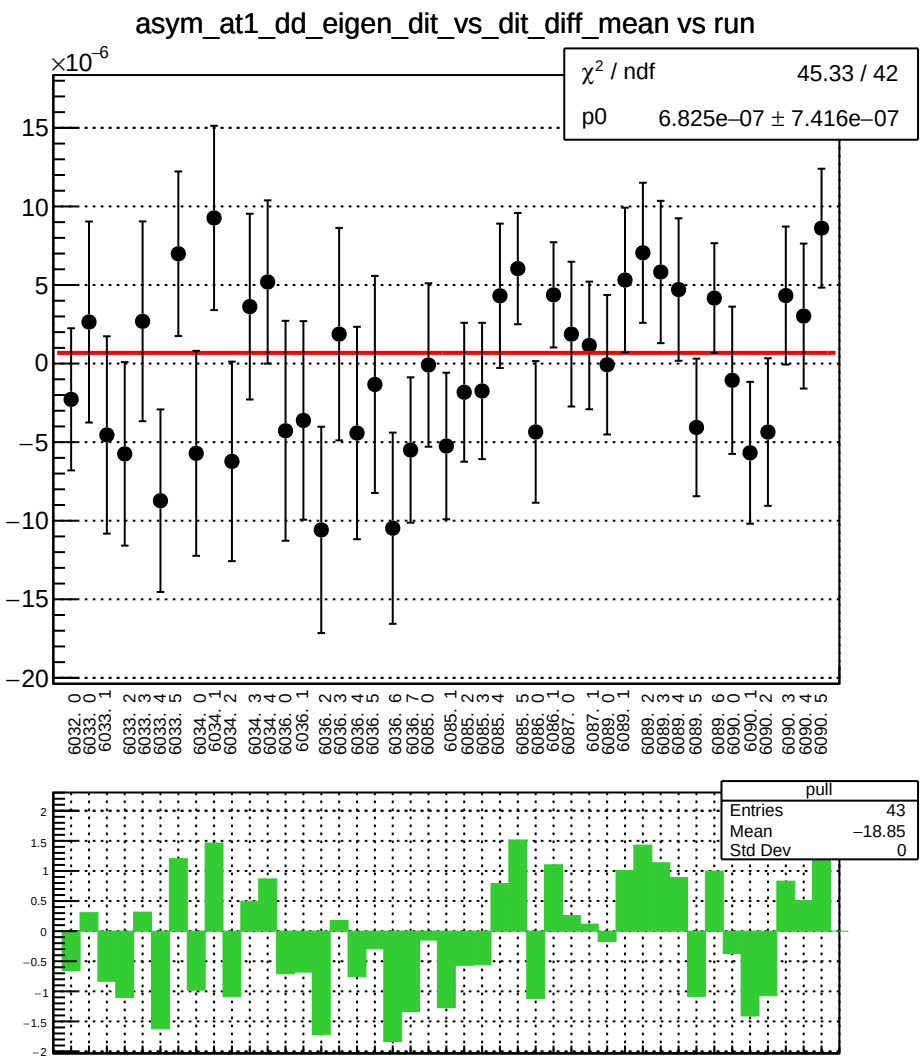

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.667e+05 / 42
p0 2.676e−11 ± 4.198e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

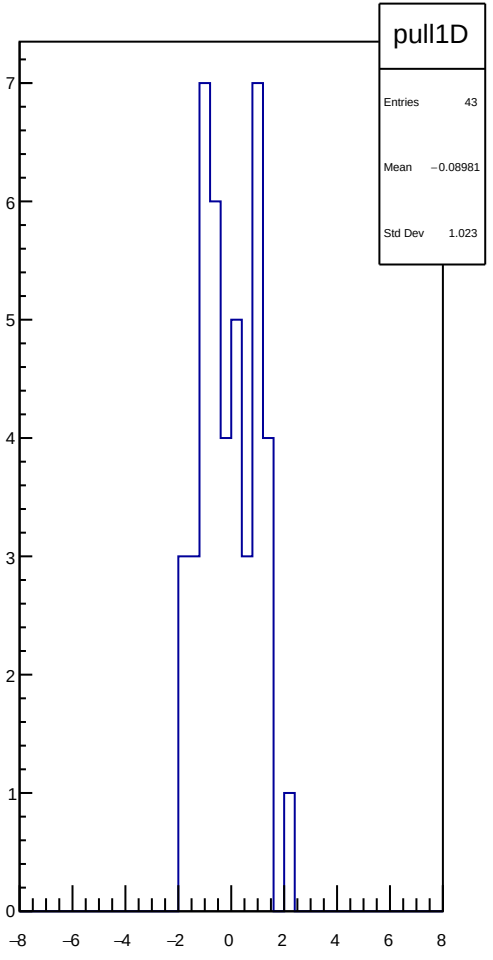

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.6 / 42
p0 0.06311 ± 0.056
2.5
2
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −104.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01735
Std Dev 0.9952
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

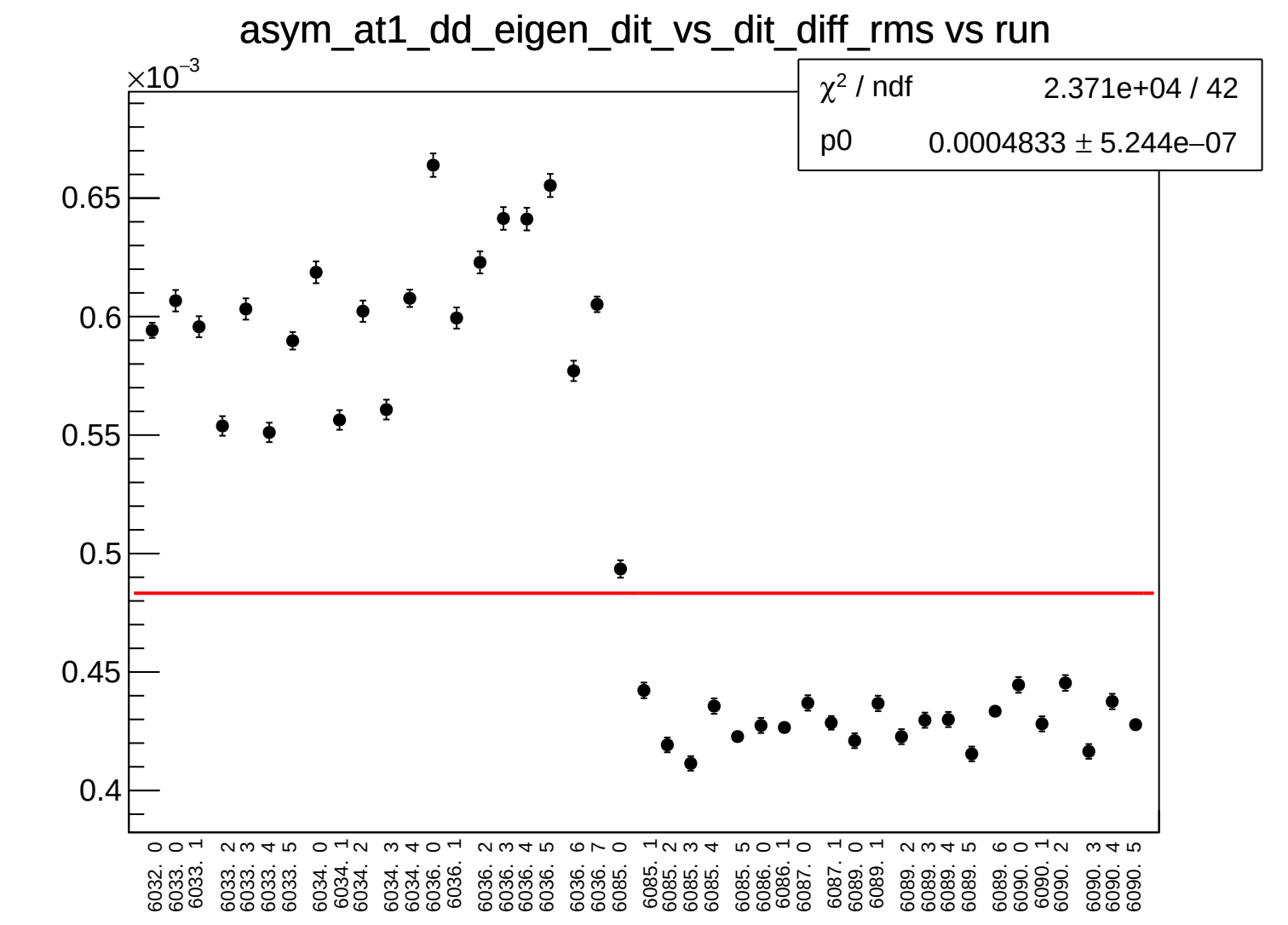

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.398e+04 / 42
p0 34.95 ± 0.0396
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

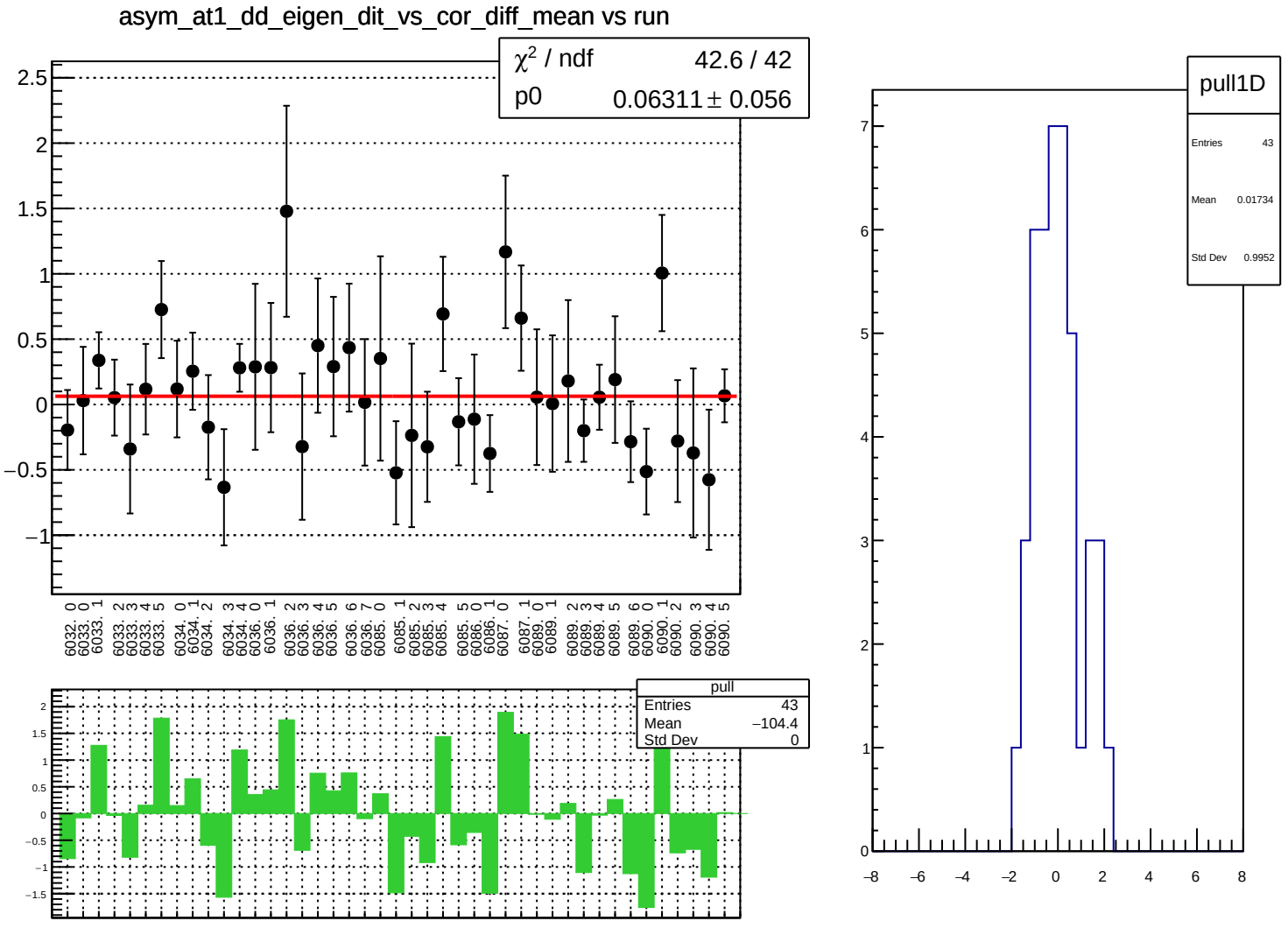

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.6 / 42
p0 0.06311 ± 0.056
pull
Entries 43
Mean −104.4
Std Dev 0
pull1D
Entries 43
Mean 0.01735
Std Dev 0.9952

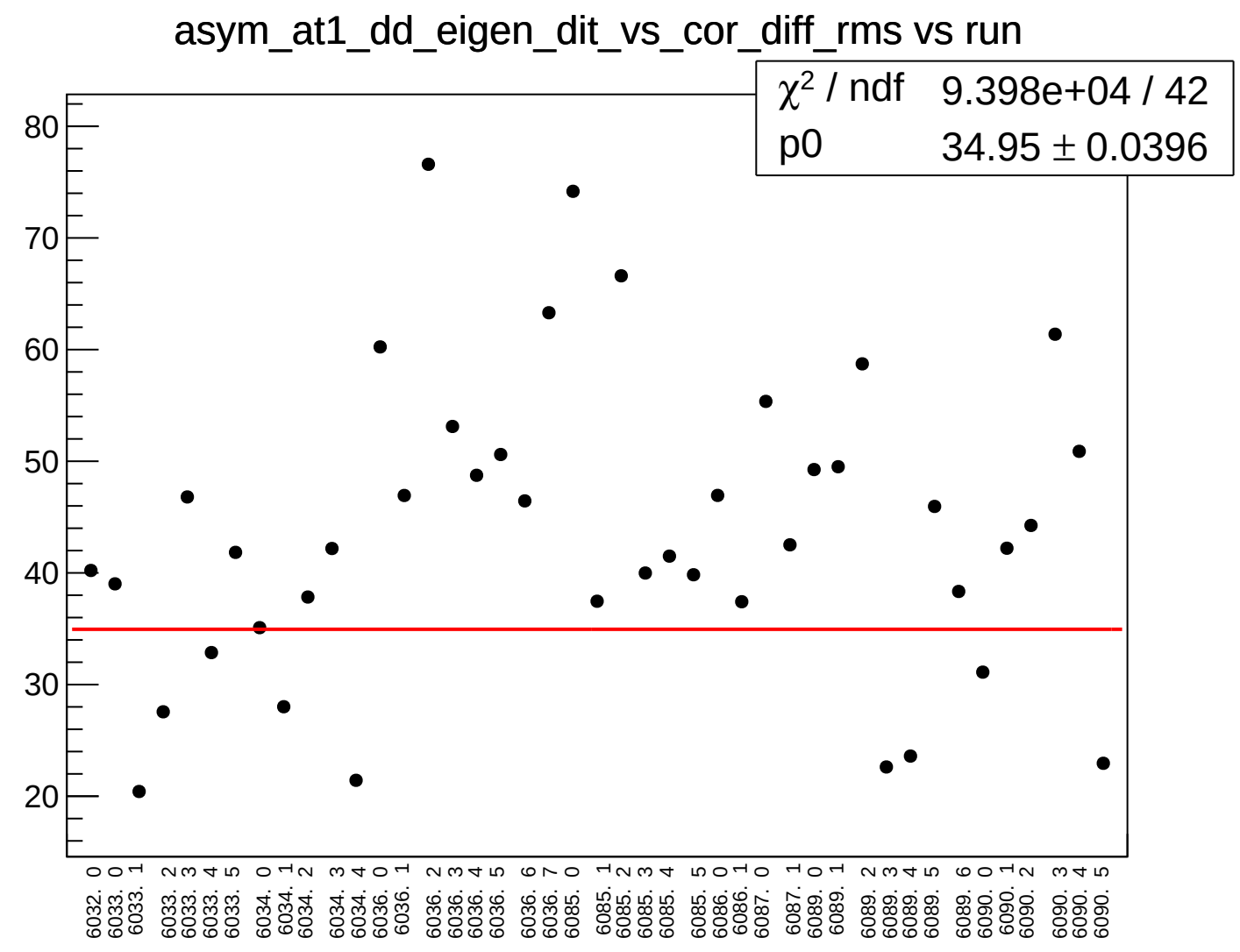

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.398e+04 / 42
p0 34.95 ± 0.0396
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

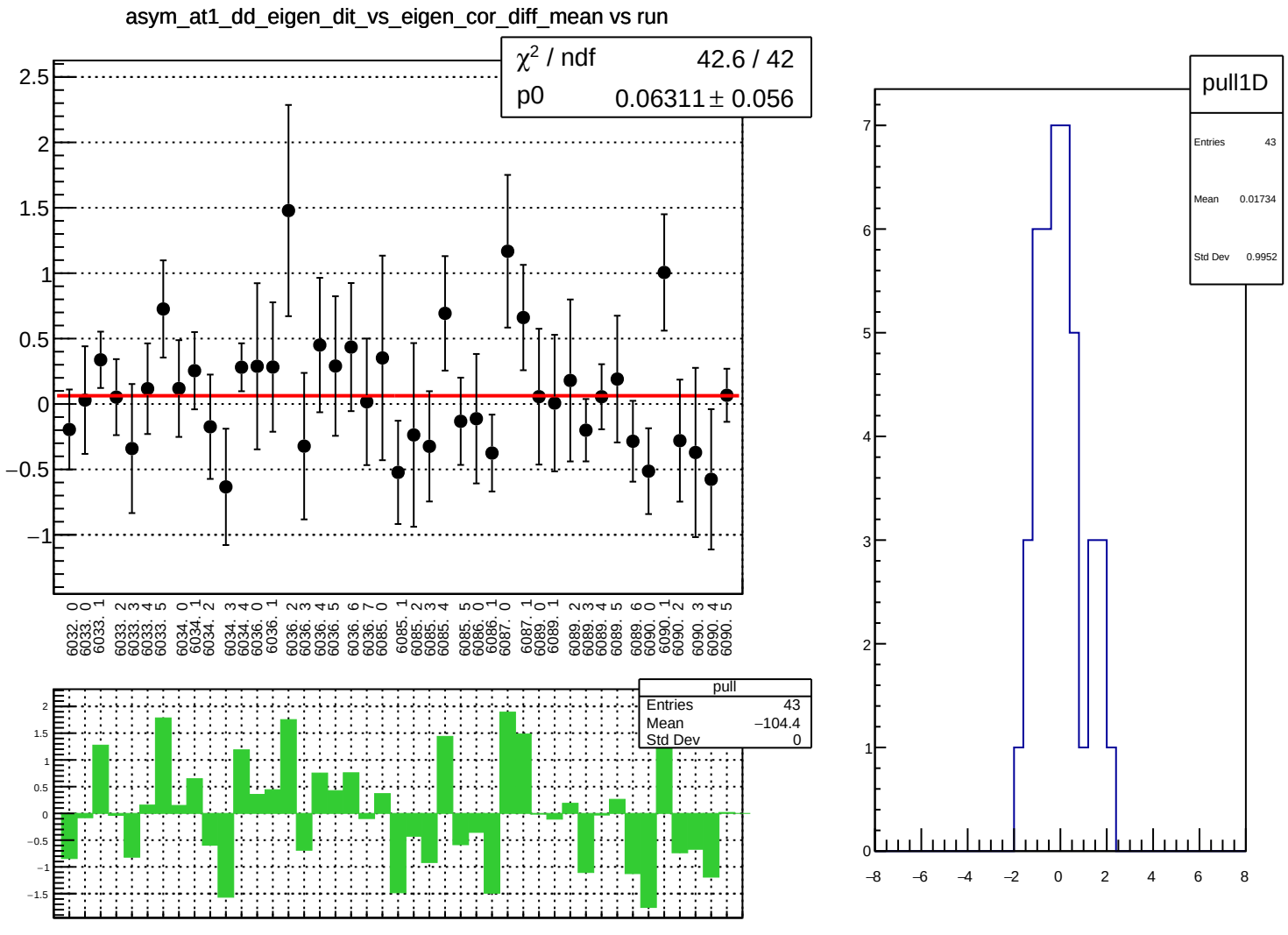

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 45.33 / 42
p0 6.825e−07 ± 7.416e−07
15
10
5
0
−5
−10
−15
−20
6032. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

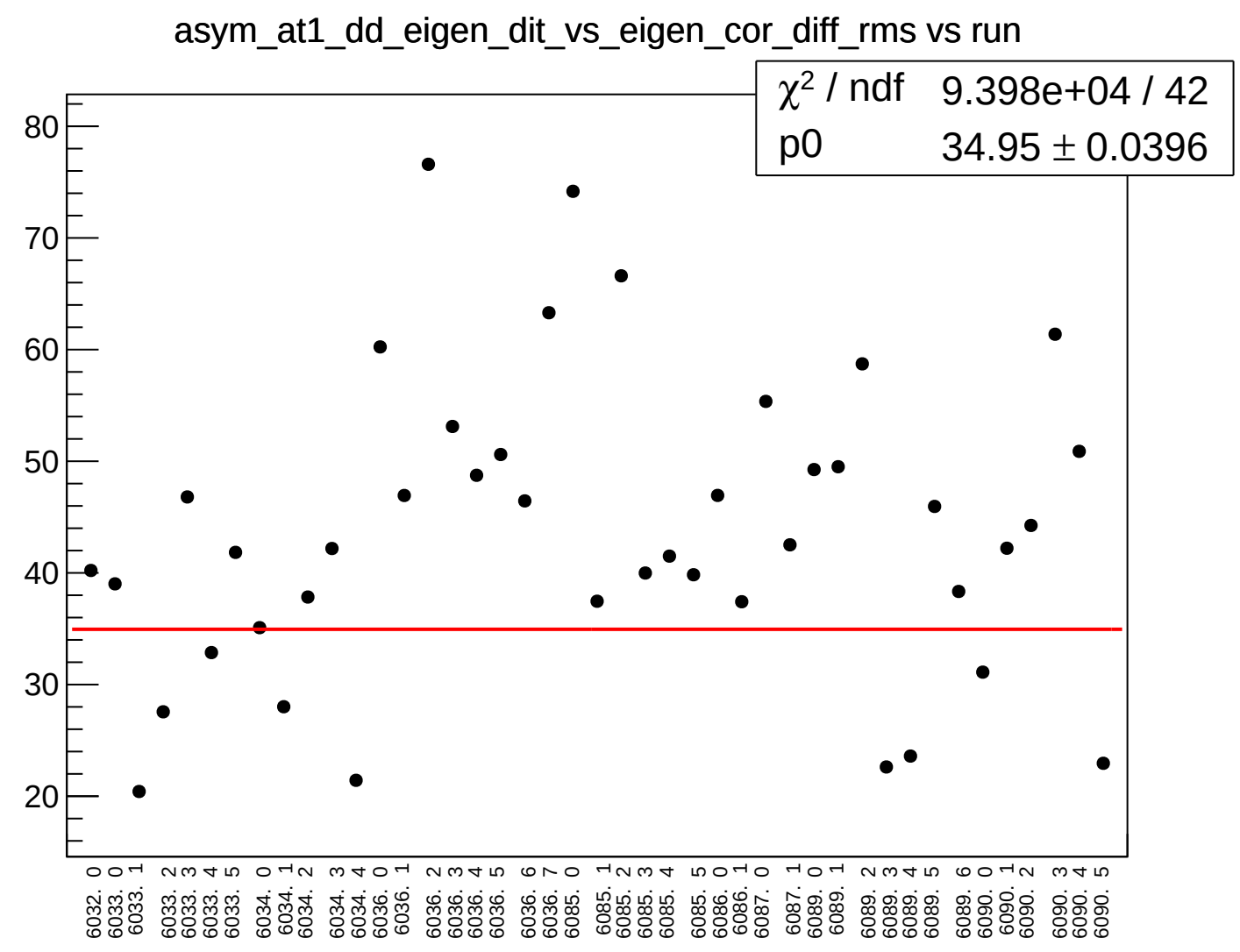

pull1D
Entries 43
Mean −0.08981
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

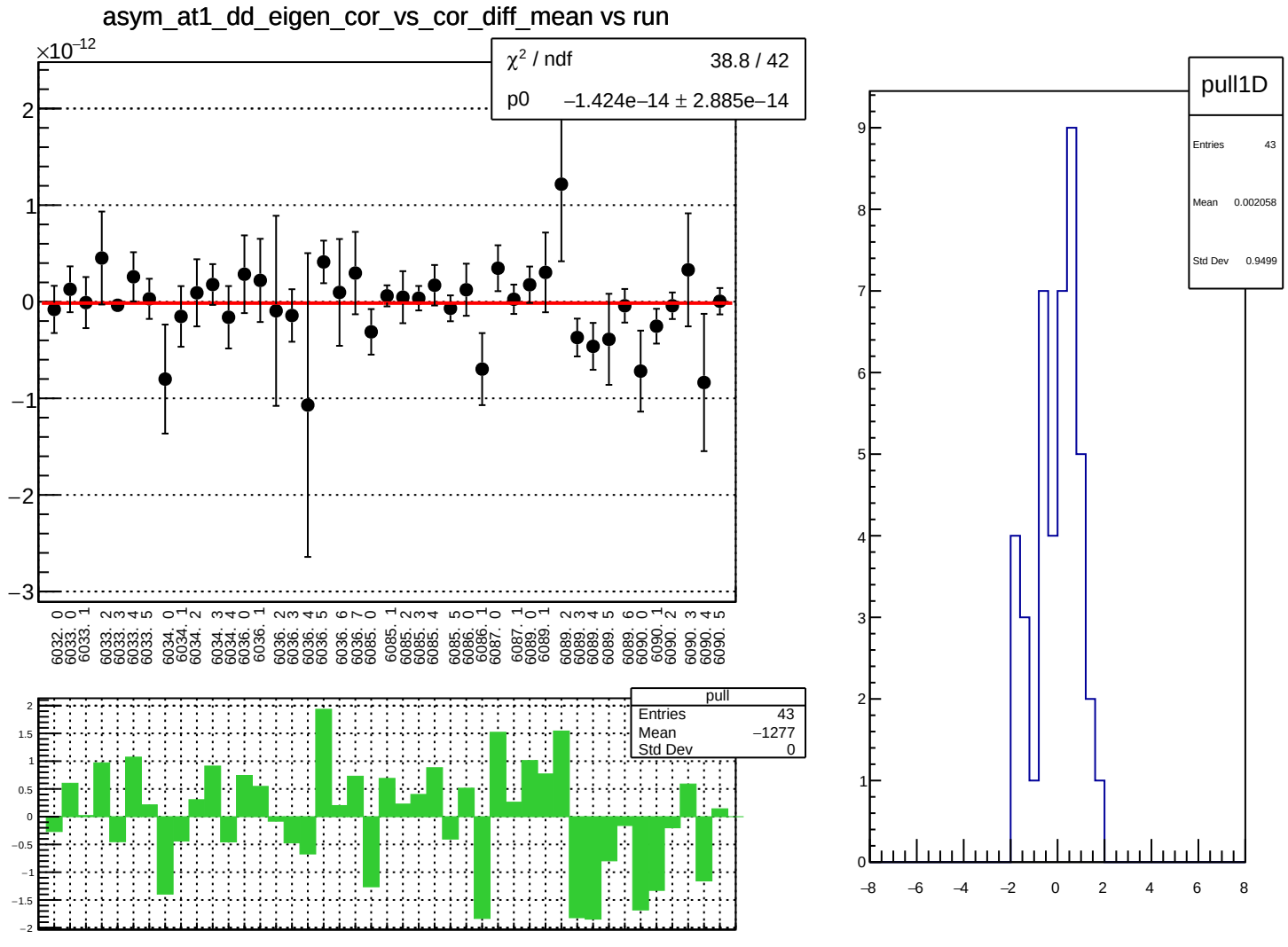

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2.371e+04 / 42
p0 0.0004833 ± 5.244e−07
0.65
0.6
0.55
0.5
0.45
0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

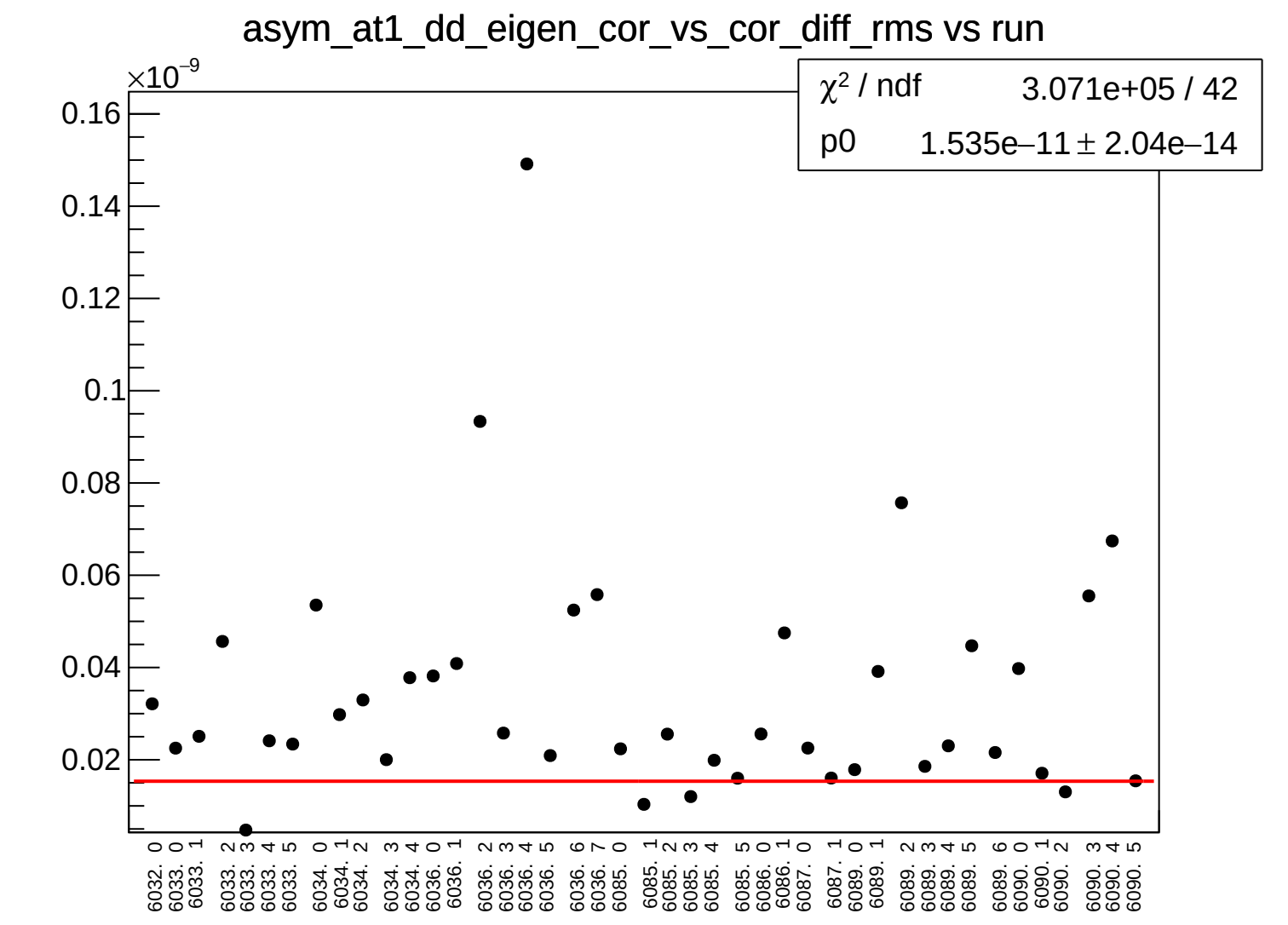

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.6 / 42
p0 0.06311 ± 0.056
pull
Entries 43
Mean −104.4
Std Dev 0
pull1D
Entries 43
Mean 0.01734
Std Dev 0.9952

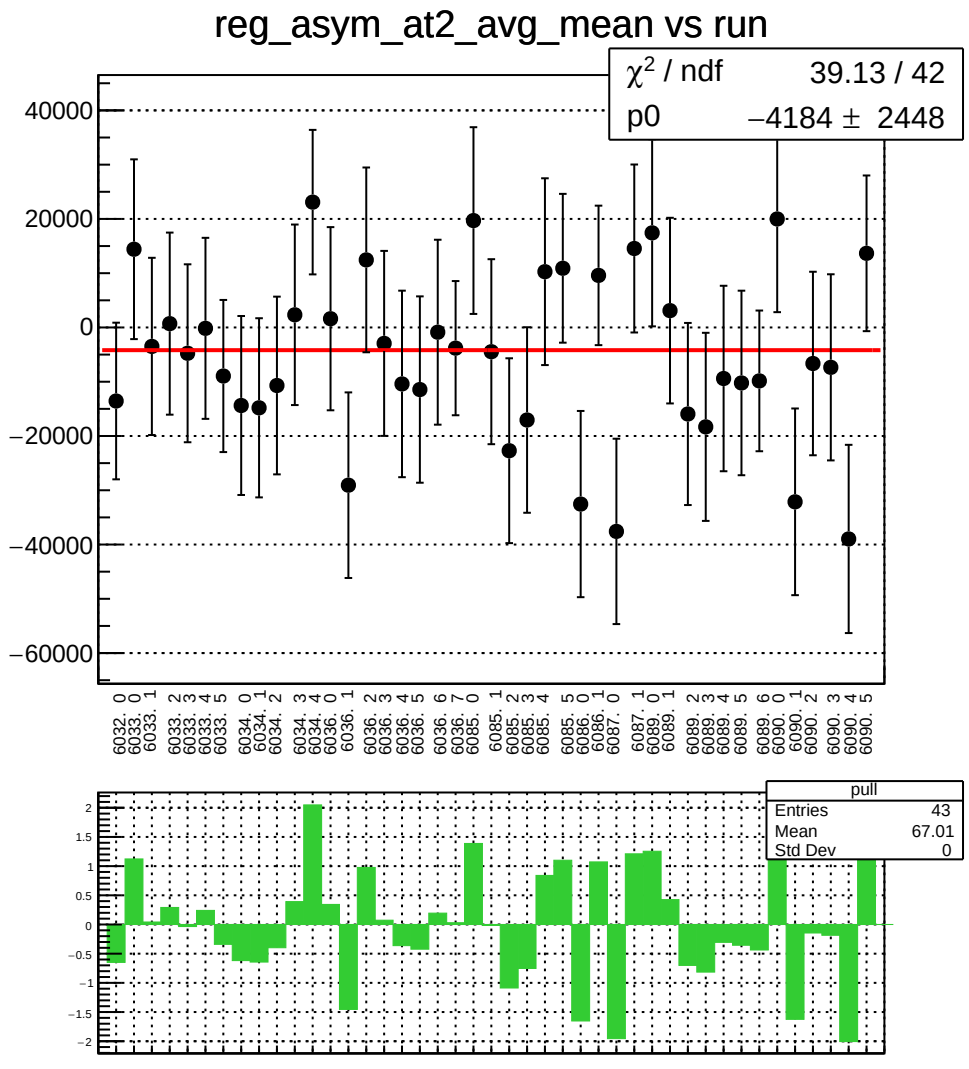

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.398e+04 / 42
p0 34.95 ± 0.0396
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

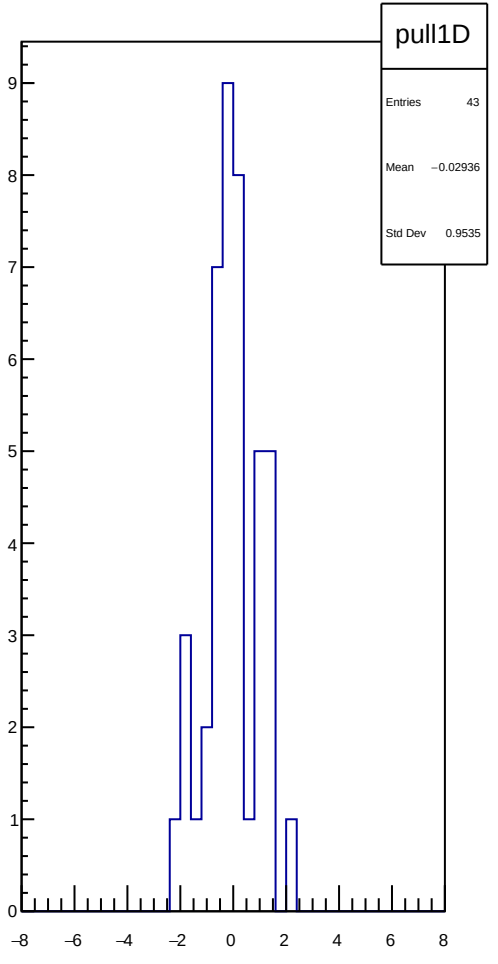

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.6 / 42
p0 0.06311 ± 0.056
pull
Entries 43
Mean −104.4
Std Dev 0
pull1D
Entries 43
Mean 0.01734
Std Dev 0.9952

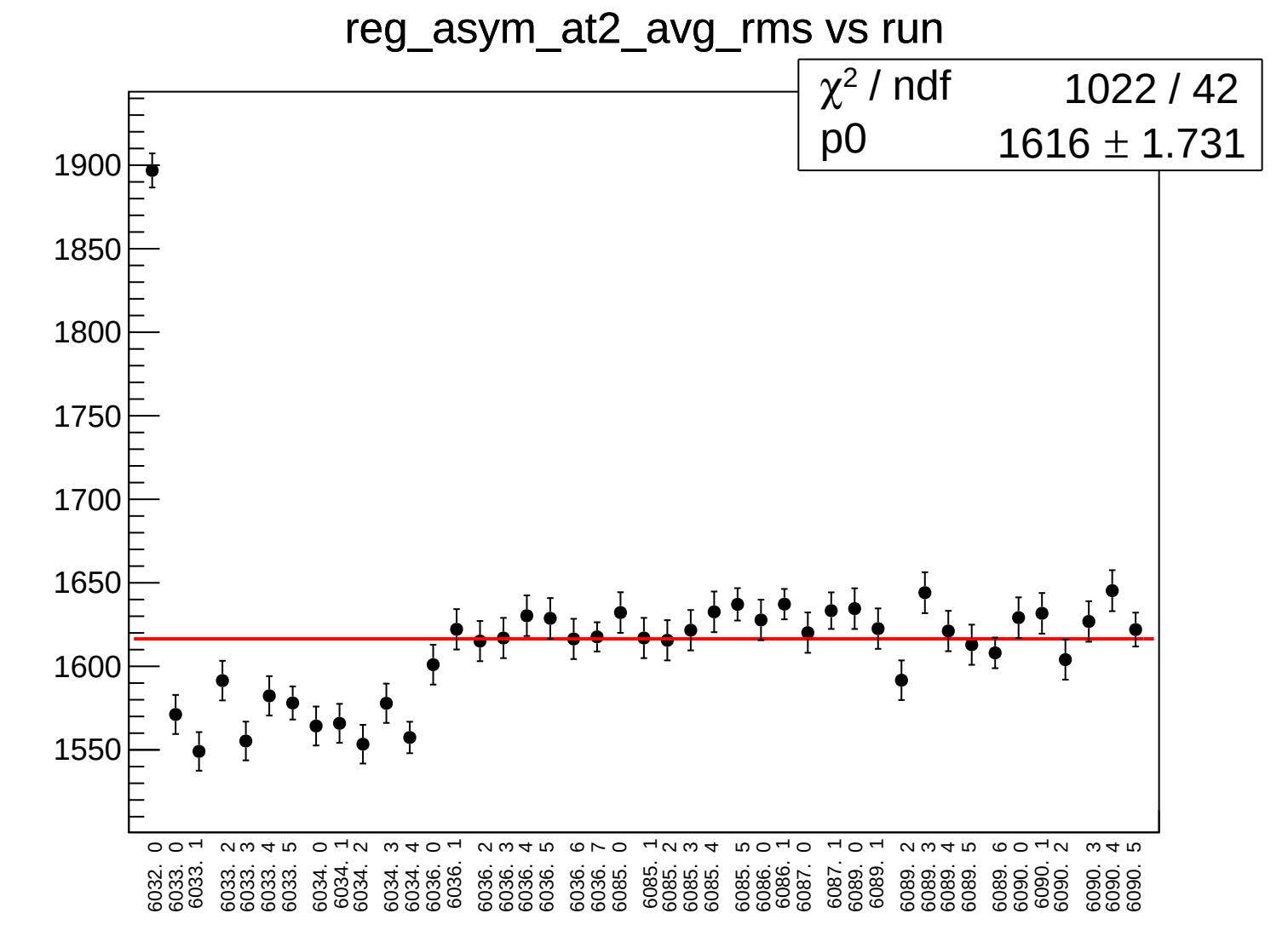

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.398e+04 / 42
p0 34.95 ± 0.0396
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

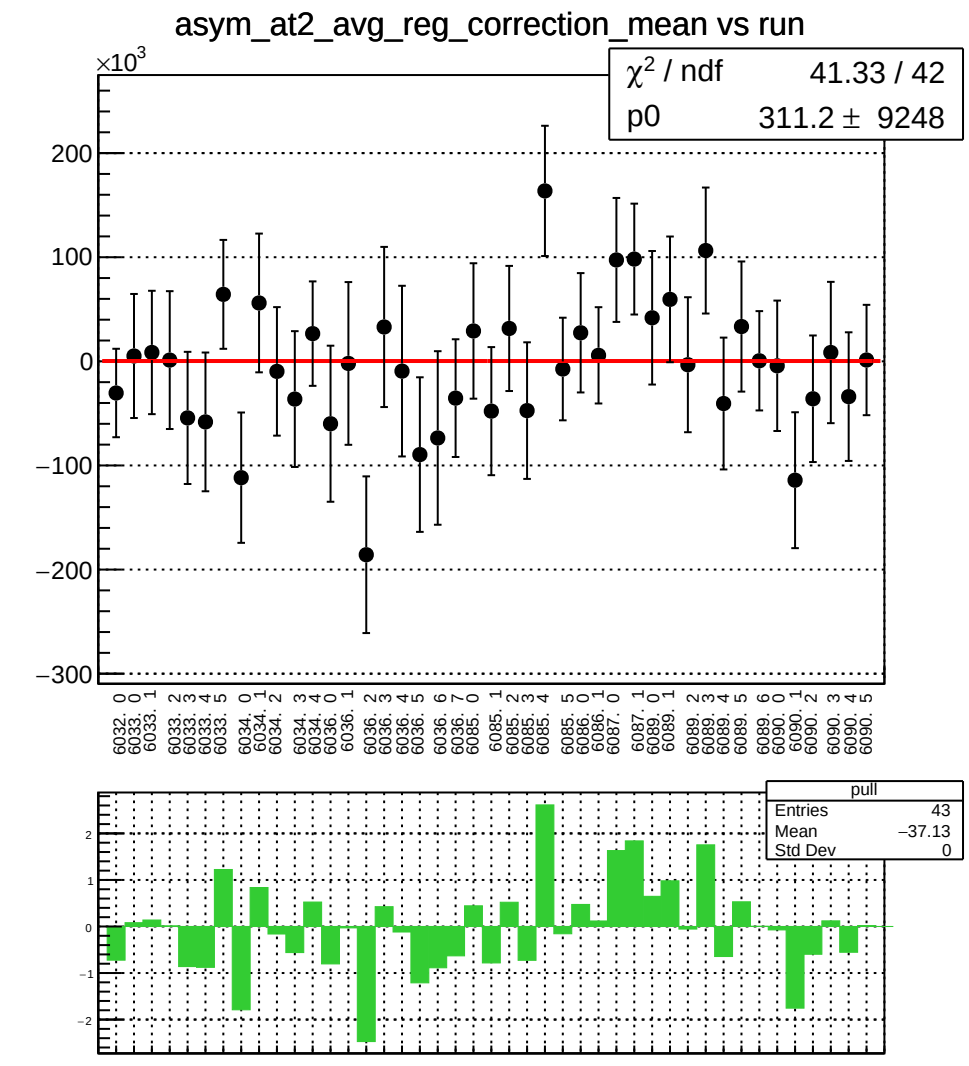

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.8 / 42
p0 −1.424e−14 ± 2.885e−14
pull
Entries 43
Mean −1277
Std Dev 0
pull1D
Entries 43
Mean 0.002058
Std Dev 0.9499

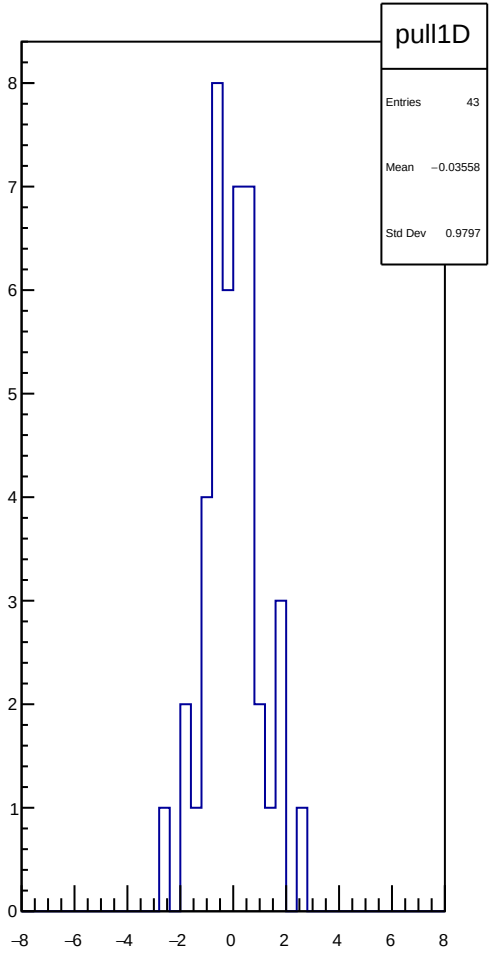

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.071e+05 / 42
p0 1.535e−11 ± 2.04e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

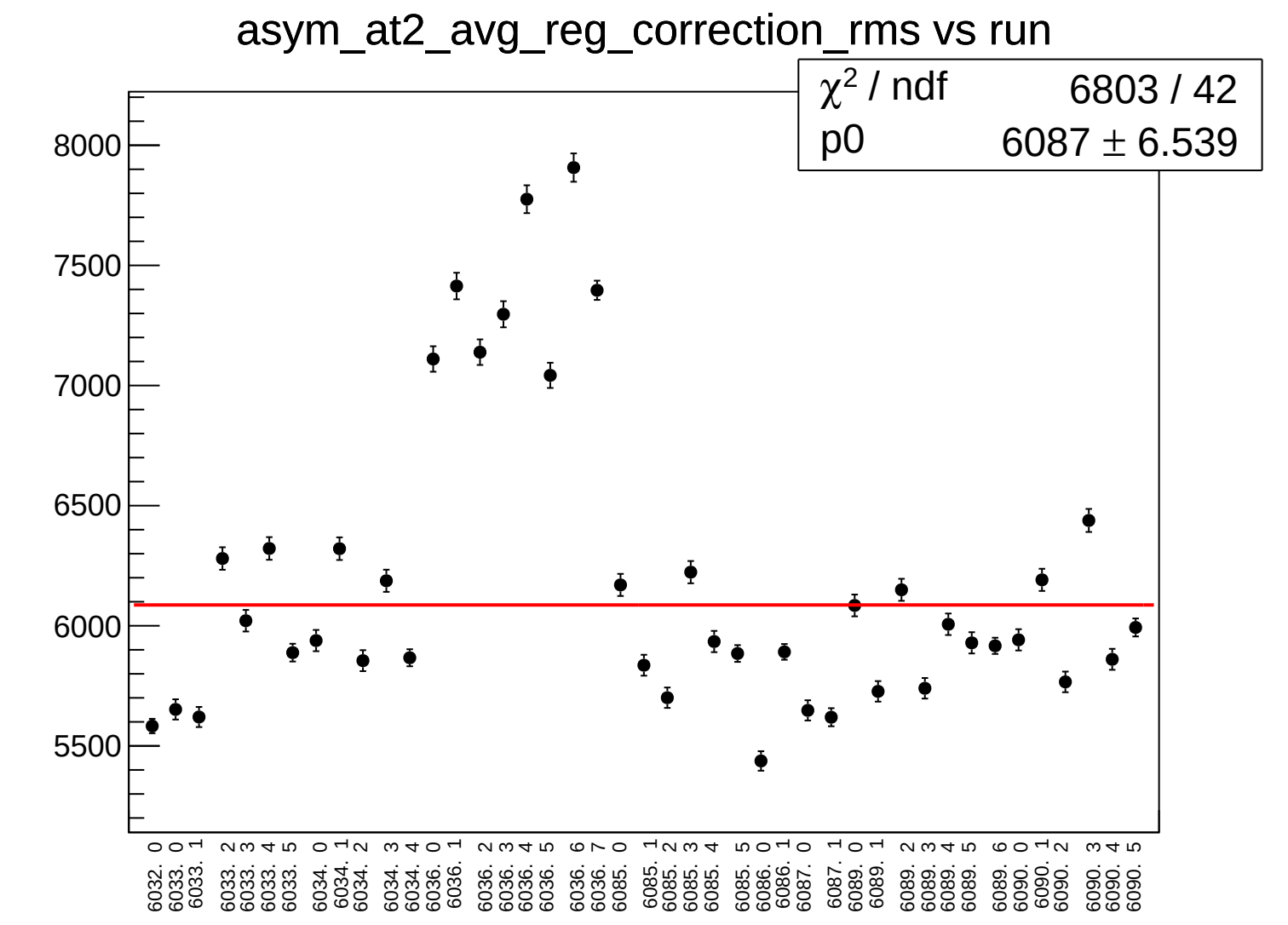

reg_asym_at2_avg_mean vs run
χ² / ndf 39.13 / 42
p0 −4184 ± 2448
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 67.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

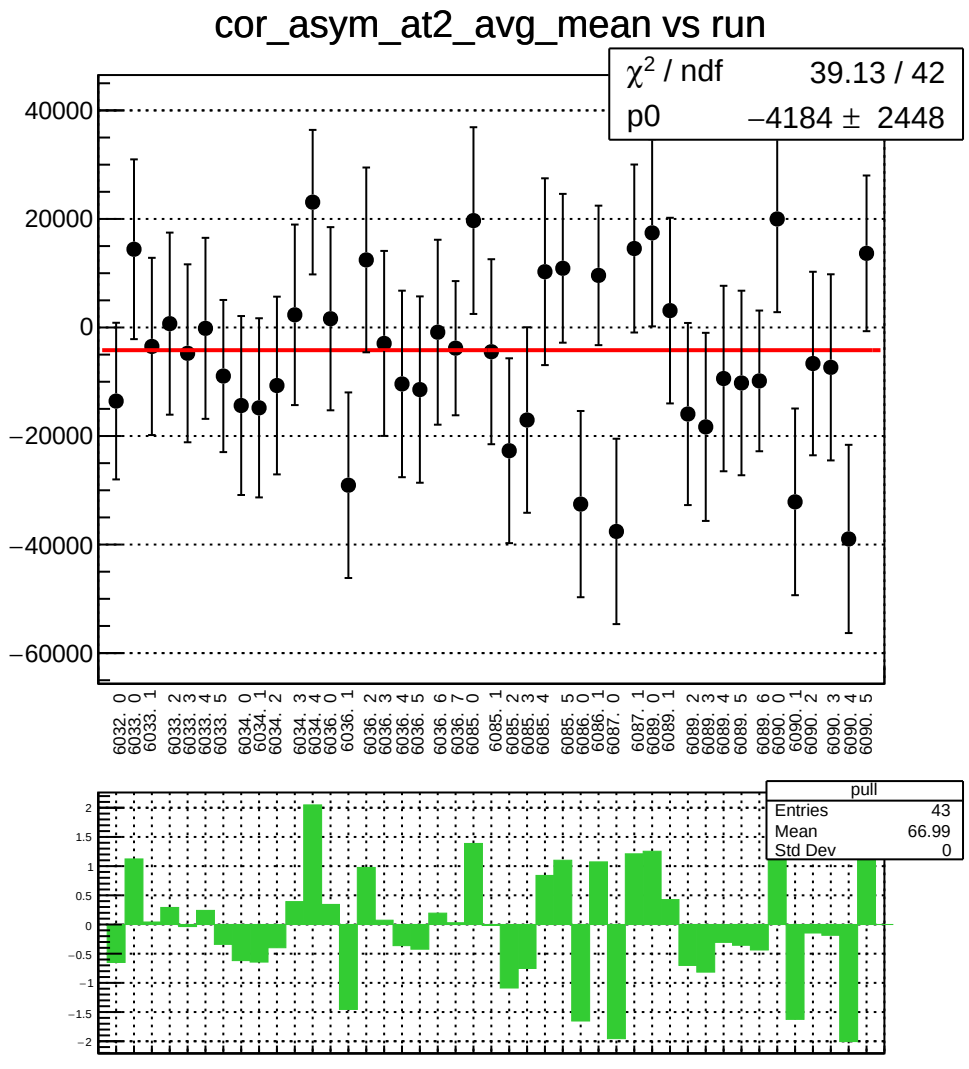

pull1D
Entries 43
Mean −0.02936
Std Dev 0.9535
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

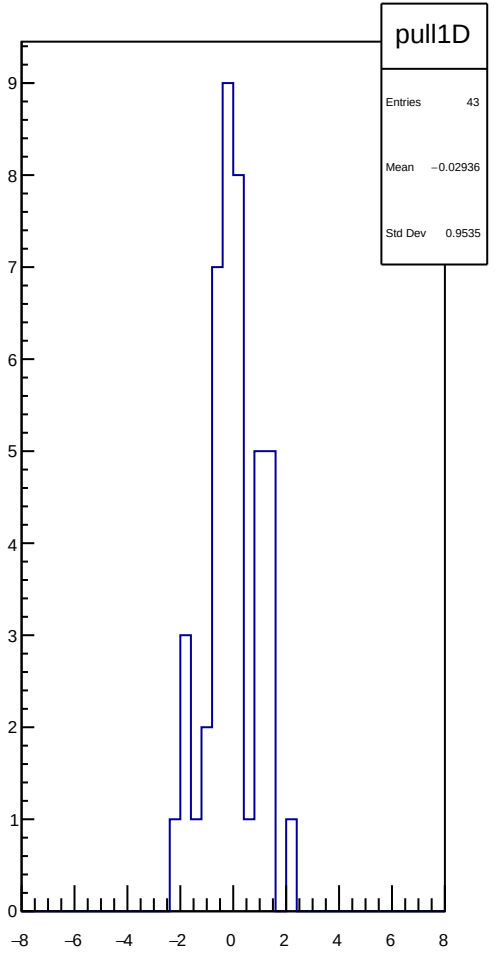

reg_asym_at2_avg_rms vs run
χ² / ndf 1022 / 42
p0 1616 ± 1.731
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

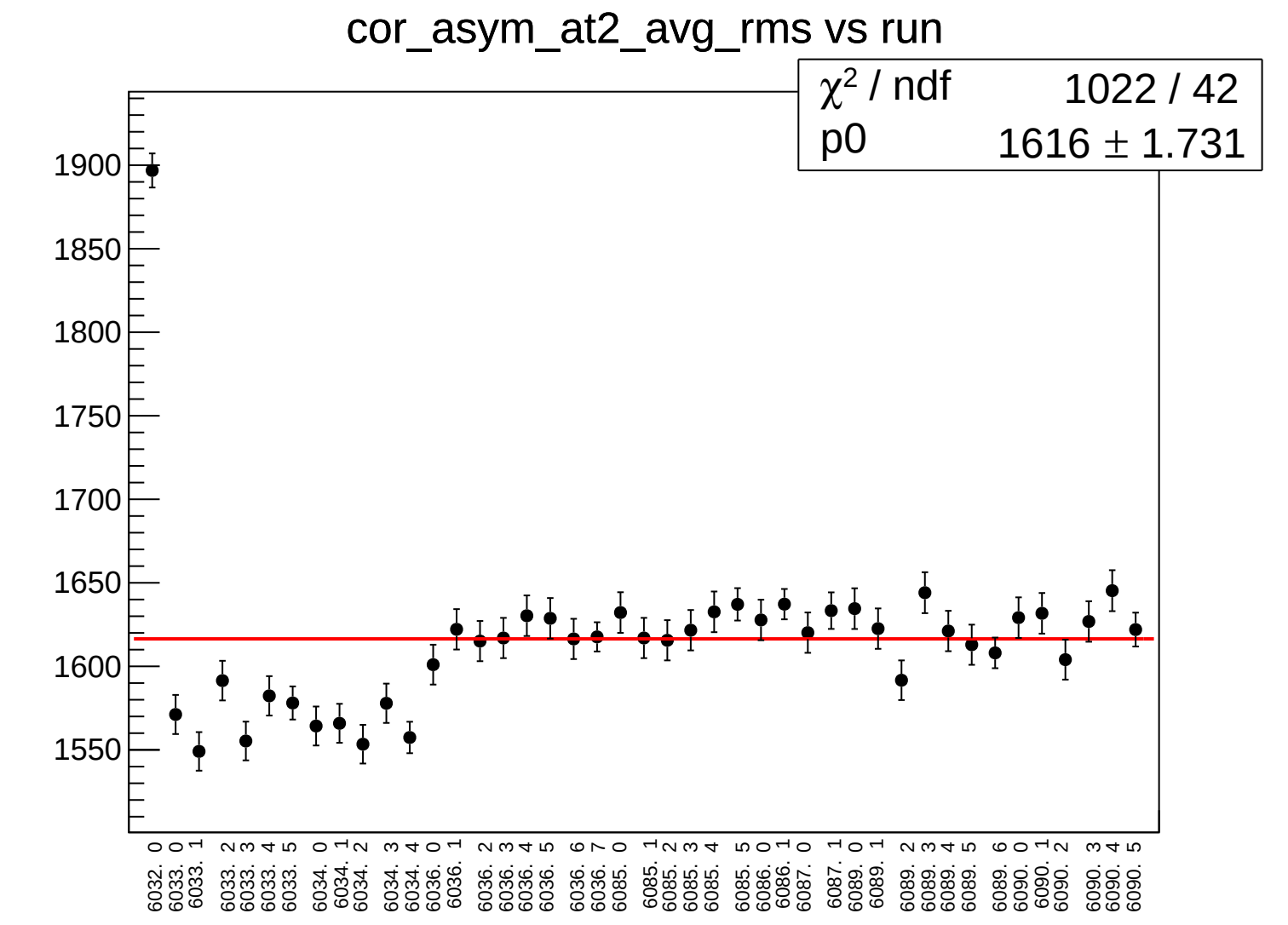

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.33 / 42
p0 311.2 ± 9248
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.13
Std Dev 0
2
1
0
−1
−2

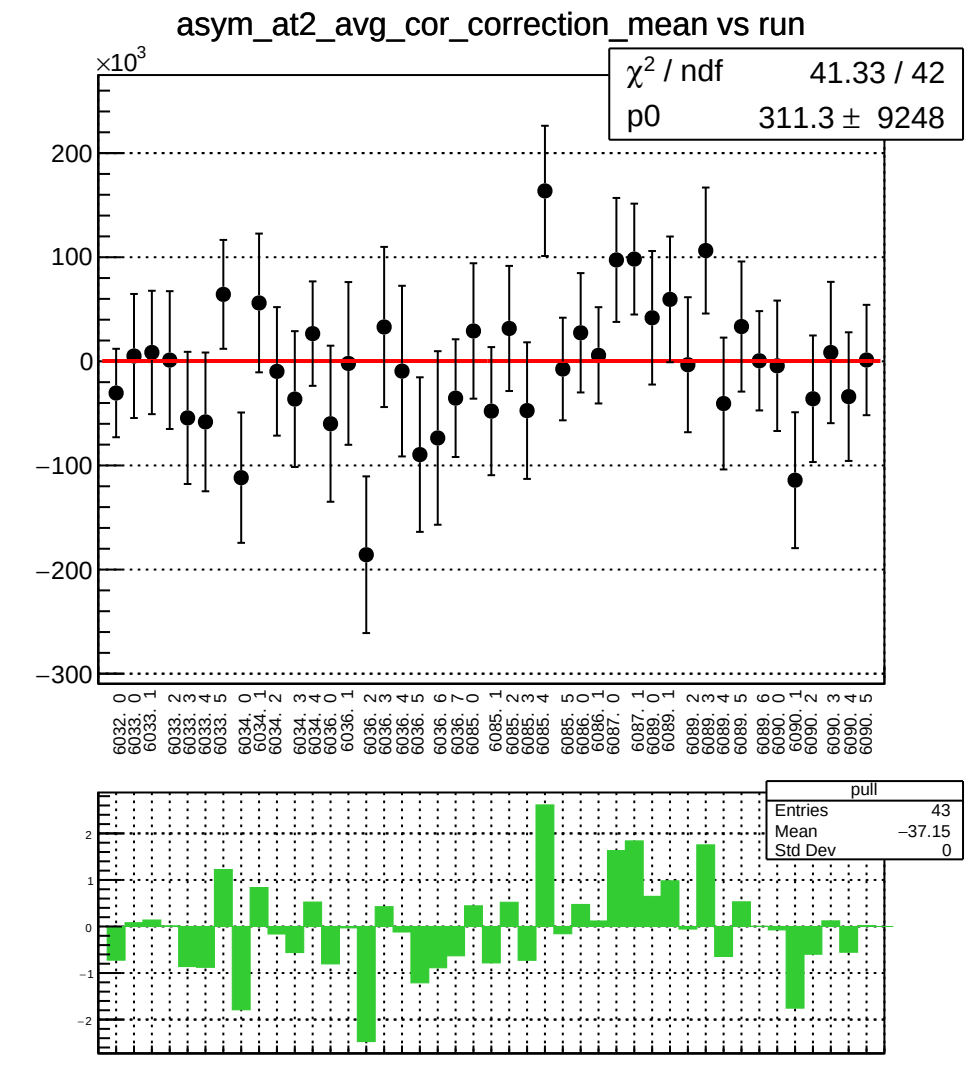

pull1D
Entries 43
Mean −0.03558
Std Dev 0.9797
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

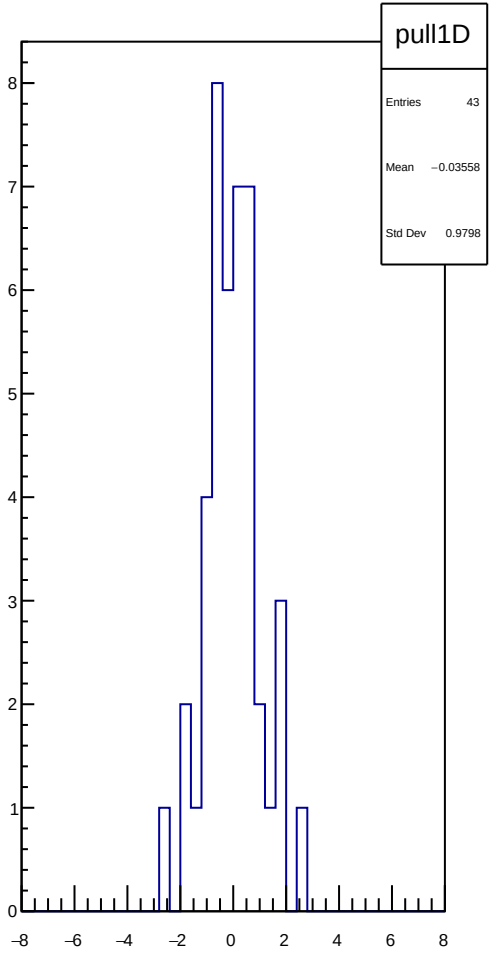

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 6803 / 42
p0 6087 ± 6.539
8000
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

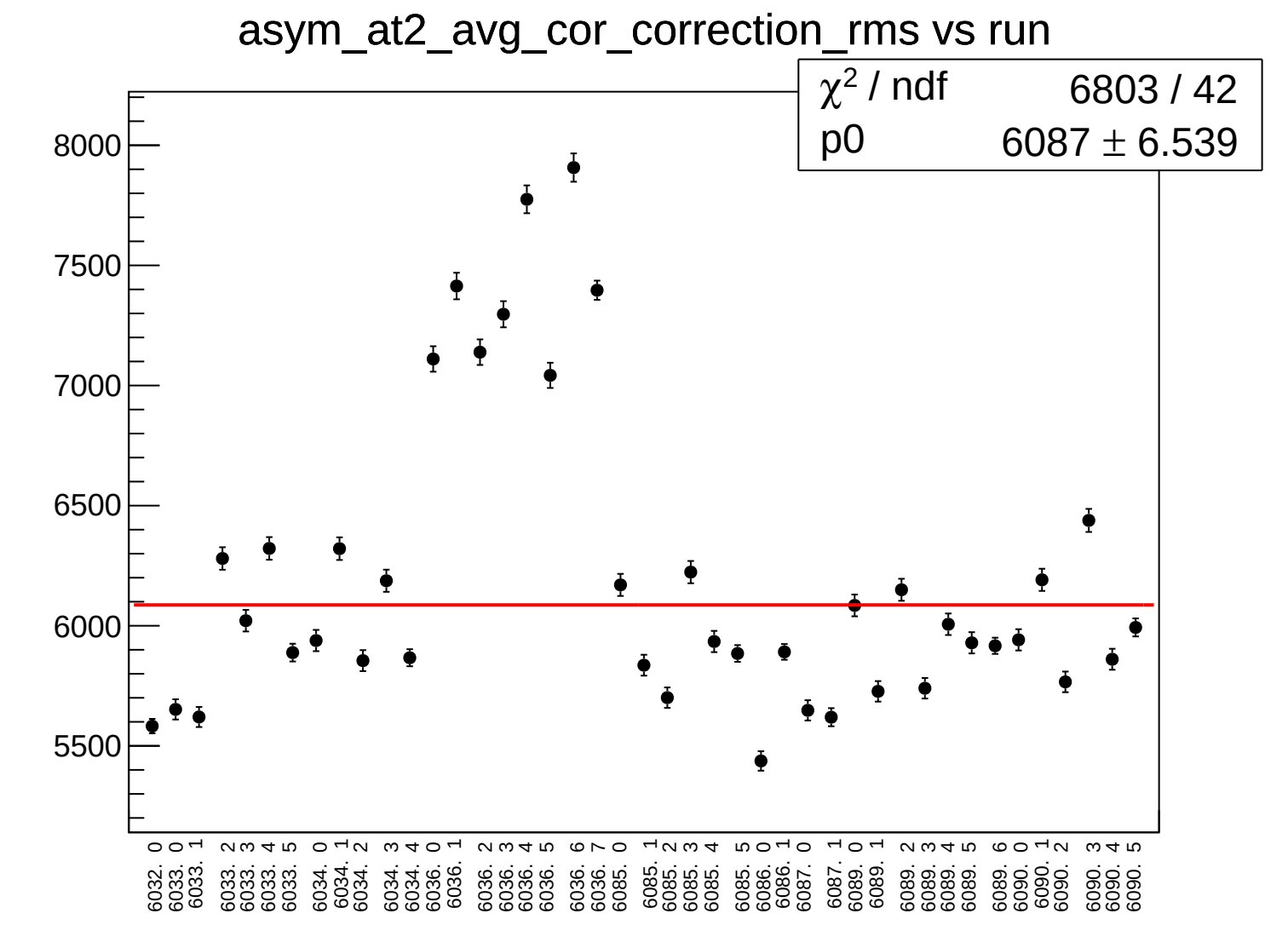

cor_asym_at2_avg_mean vs run
χ² / ndf 39.13 / 42
p0 −4184 ± 2448
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 66.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

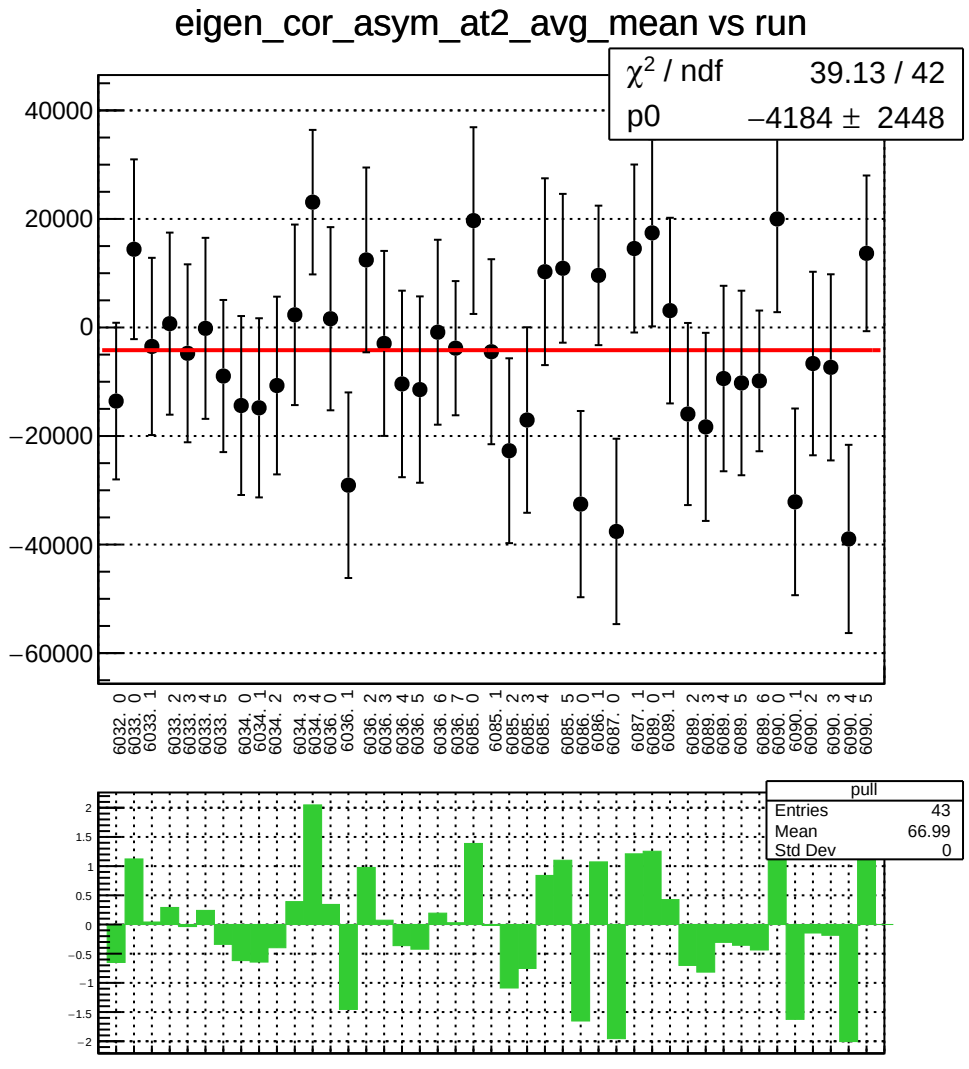

pull1D
Entries 43
Mean −0.02936
Std Dev 0.9535
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

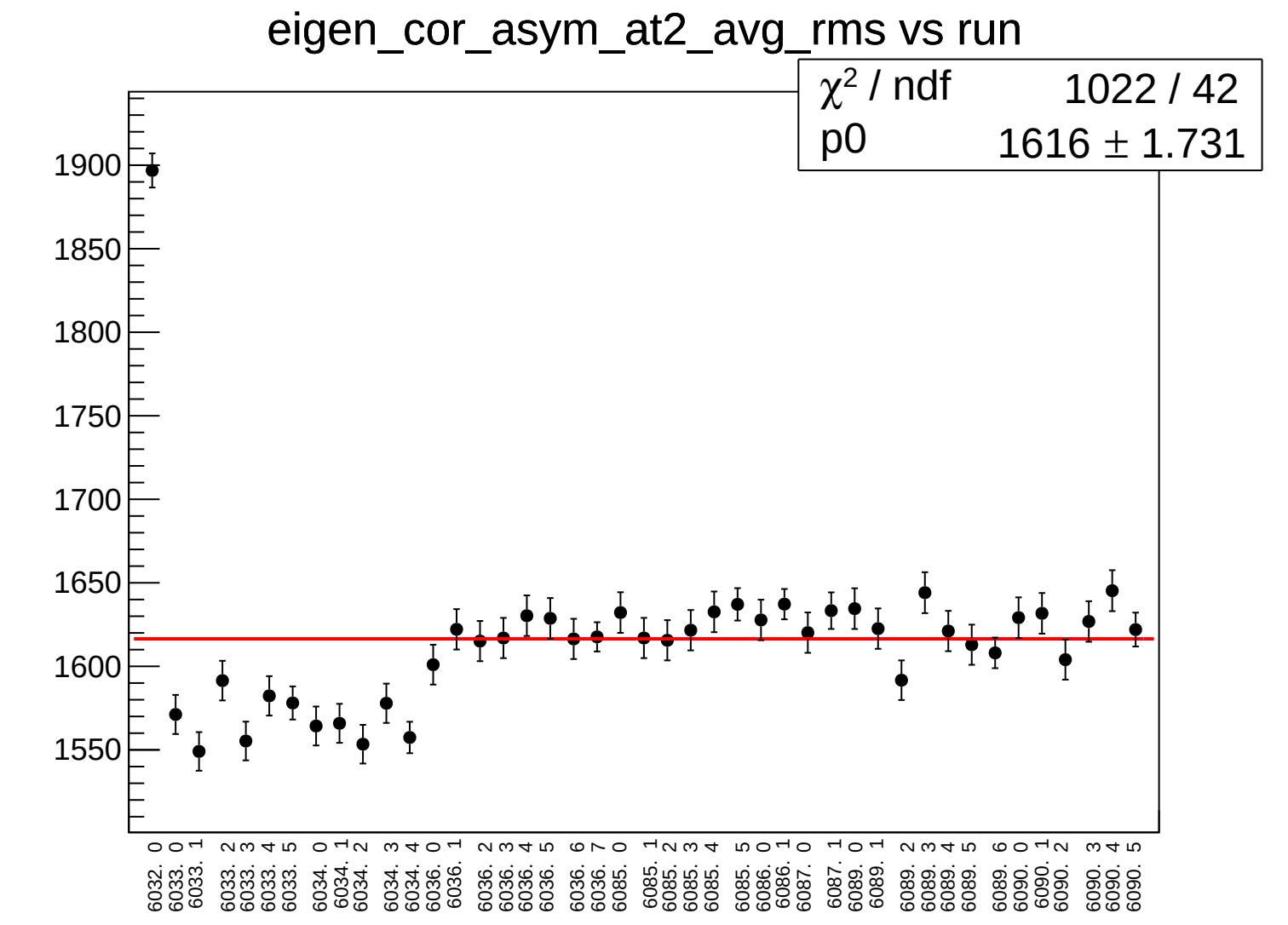

cor_asym_at2_avg_rms vs run
χ² / ndf 1022 / 42
p0 1616 ± 1.731
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

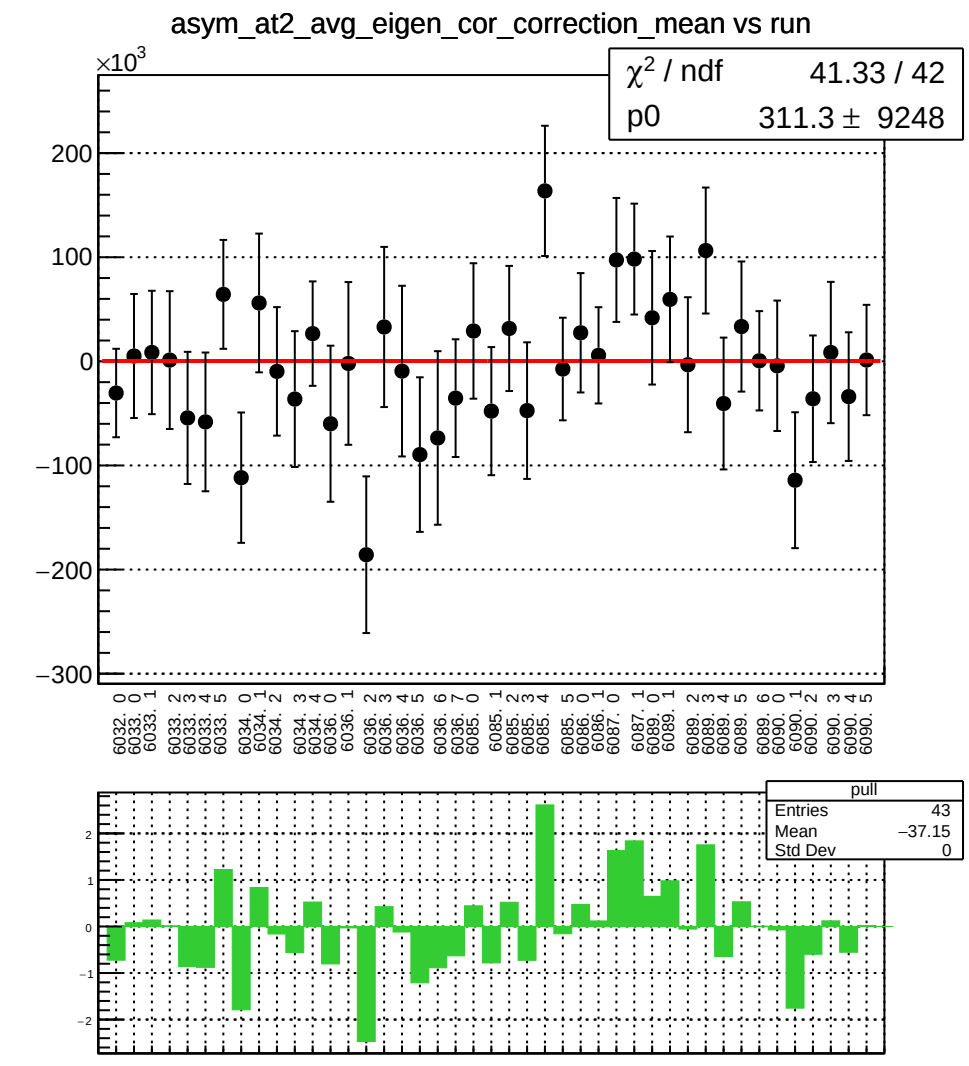

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.33 / 42
p0 311.3 ± 9248
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.15
Std Dev 0
2
1
0
−1
−2

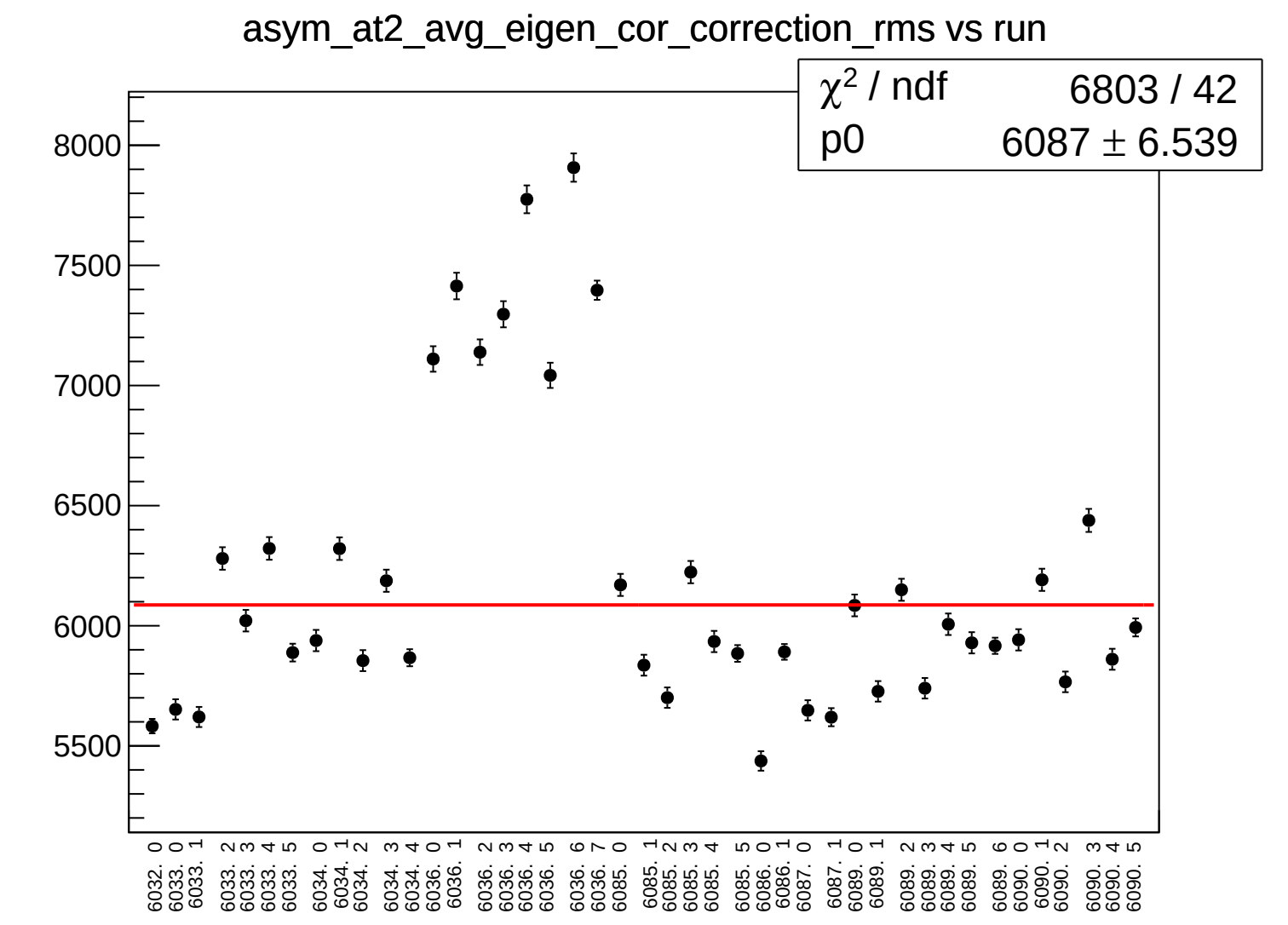

pull1D
Entries 43
Mean −0.03558
Std Dev 0.9798
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

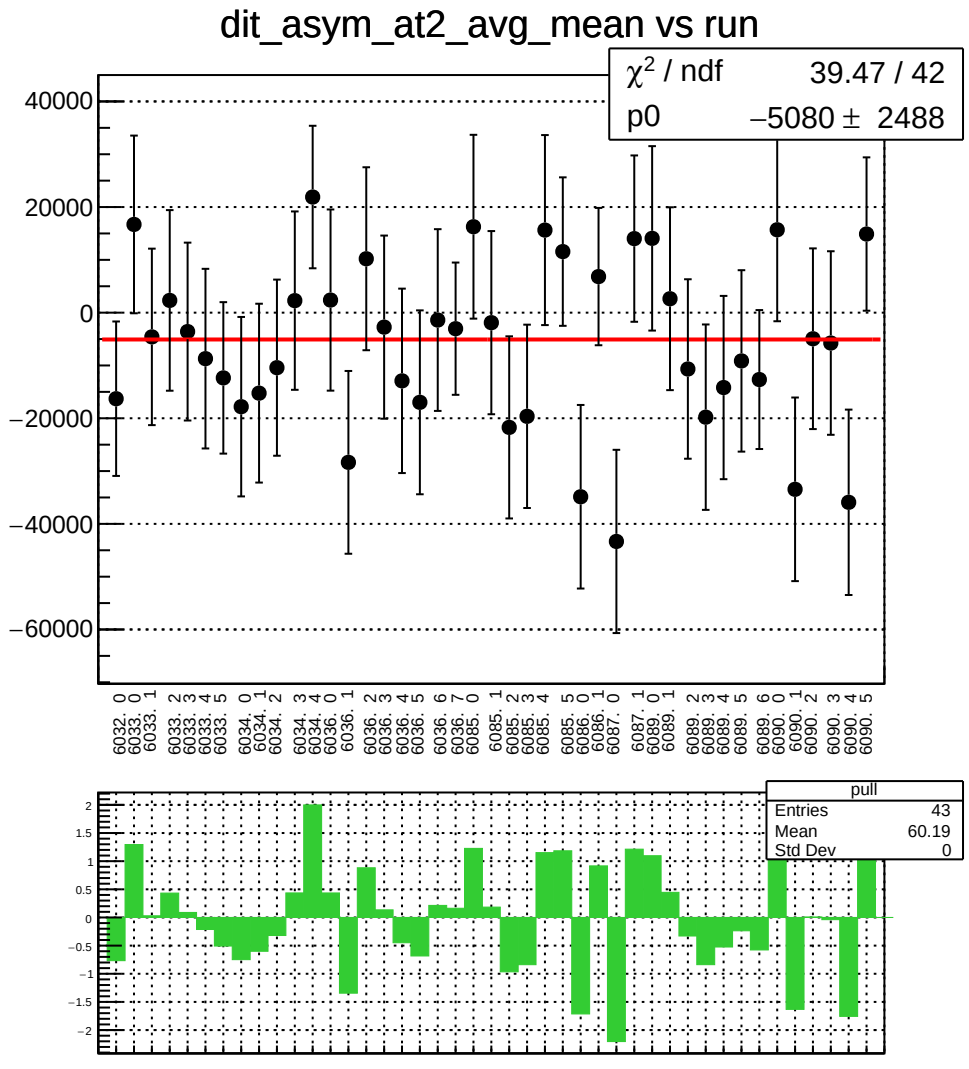

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 6803 / 42
p0 6087 ± 6.539
8000
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

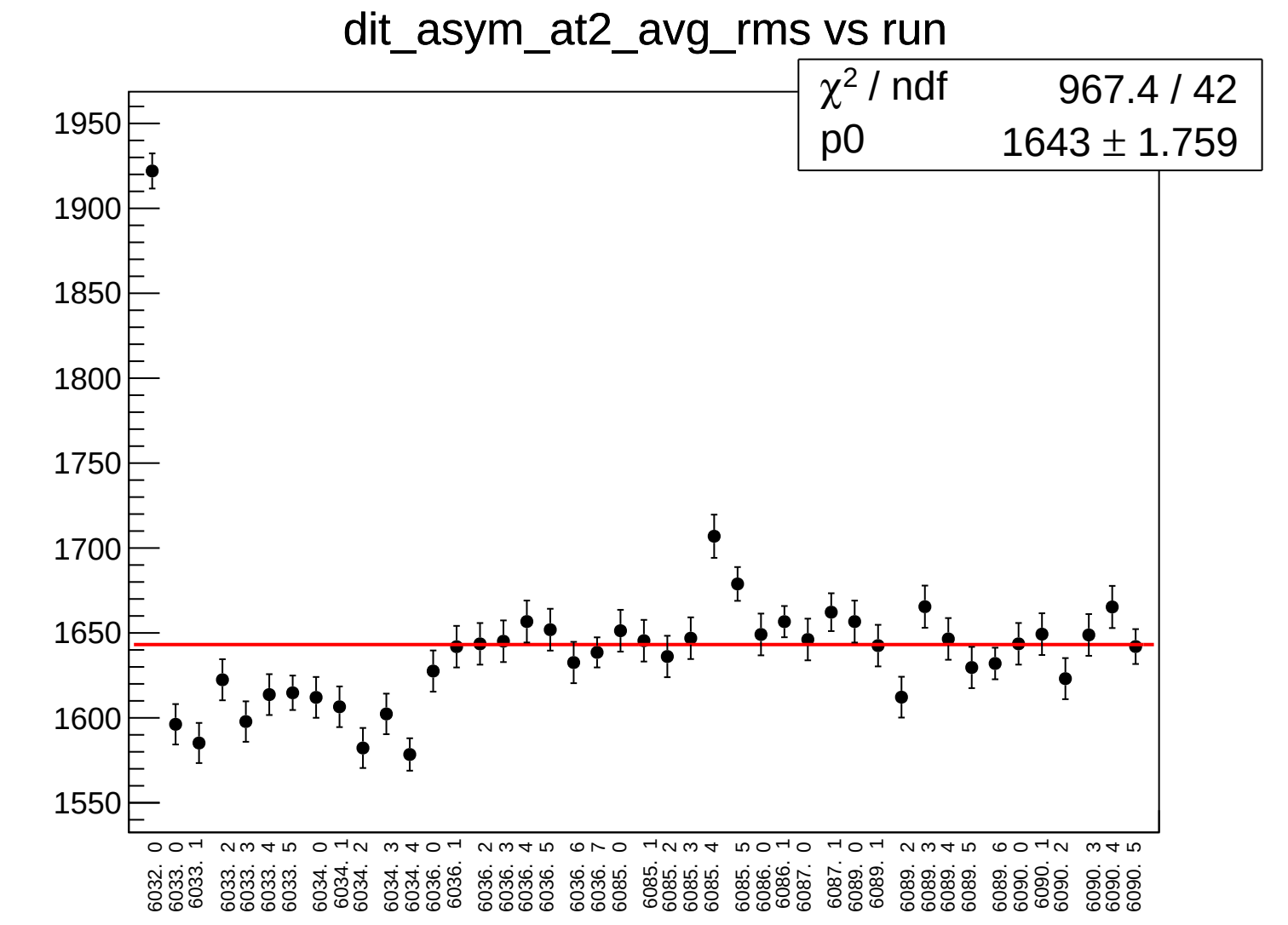

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 39.13 / 42
p0 −4184 ± 2448
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 66.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02936
Std Dev 0.9535
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

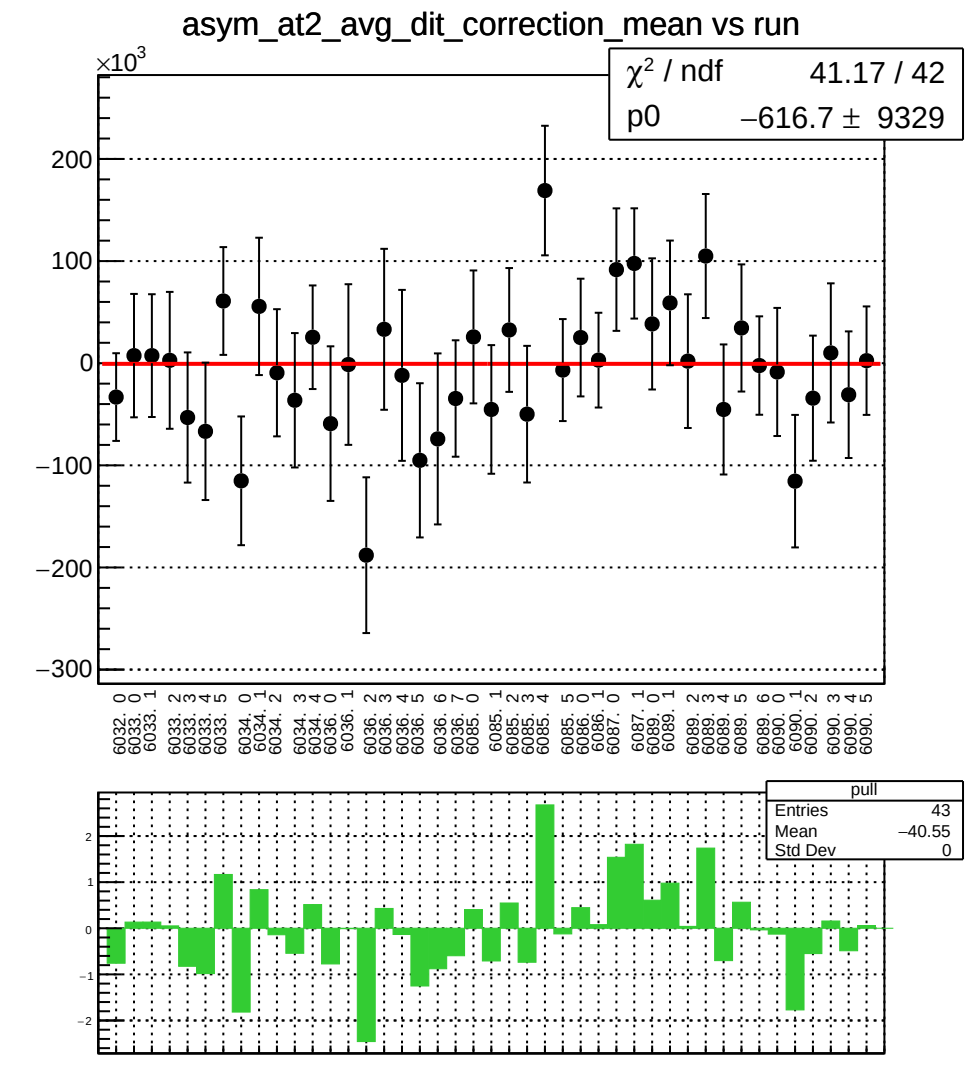

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1022 / 42
p0 1616 ± 1.731
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

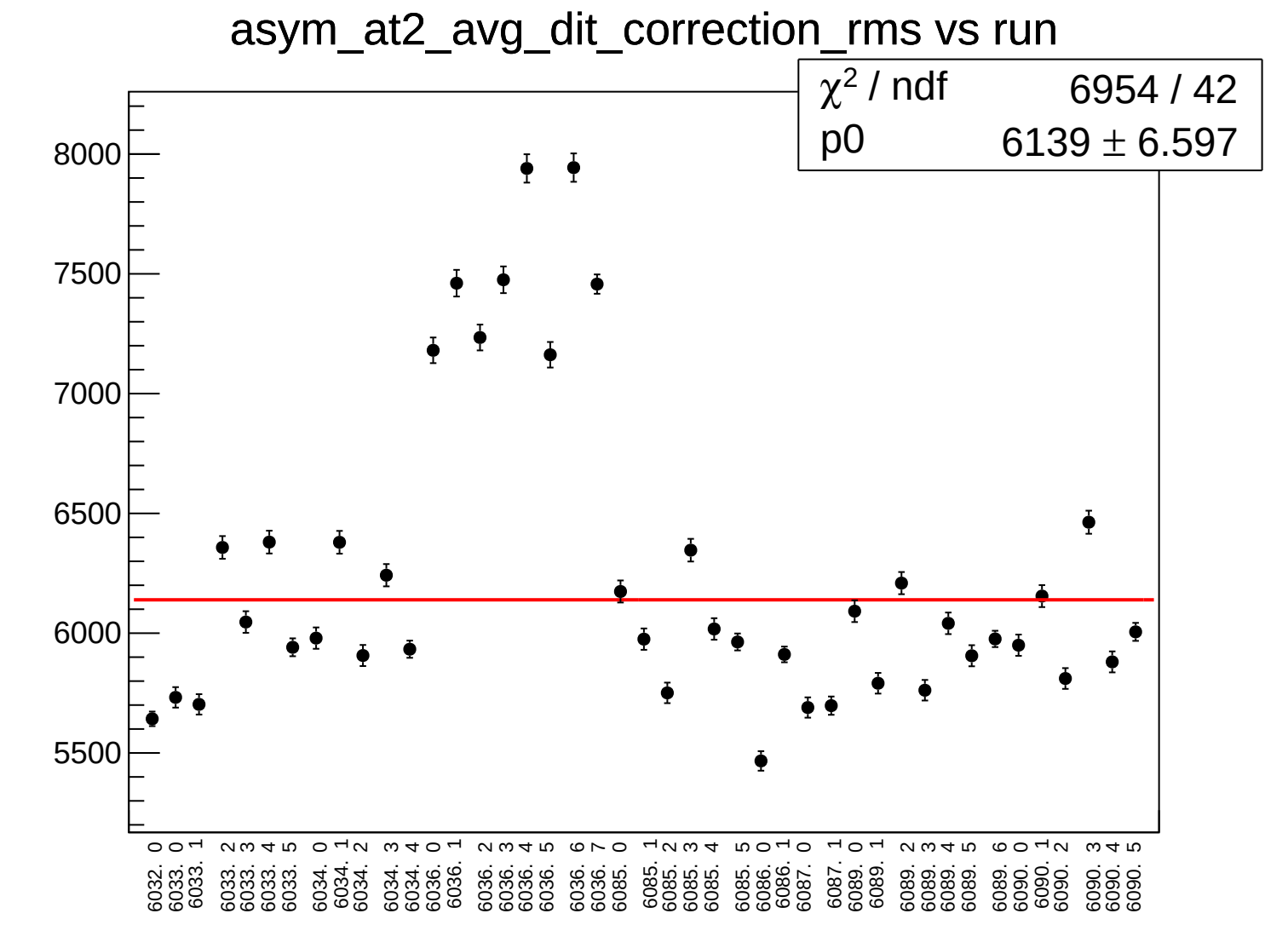

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.33 / 42
p0 311.3 ± 9248
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03558
Std Dev 0.9798
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

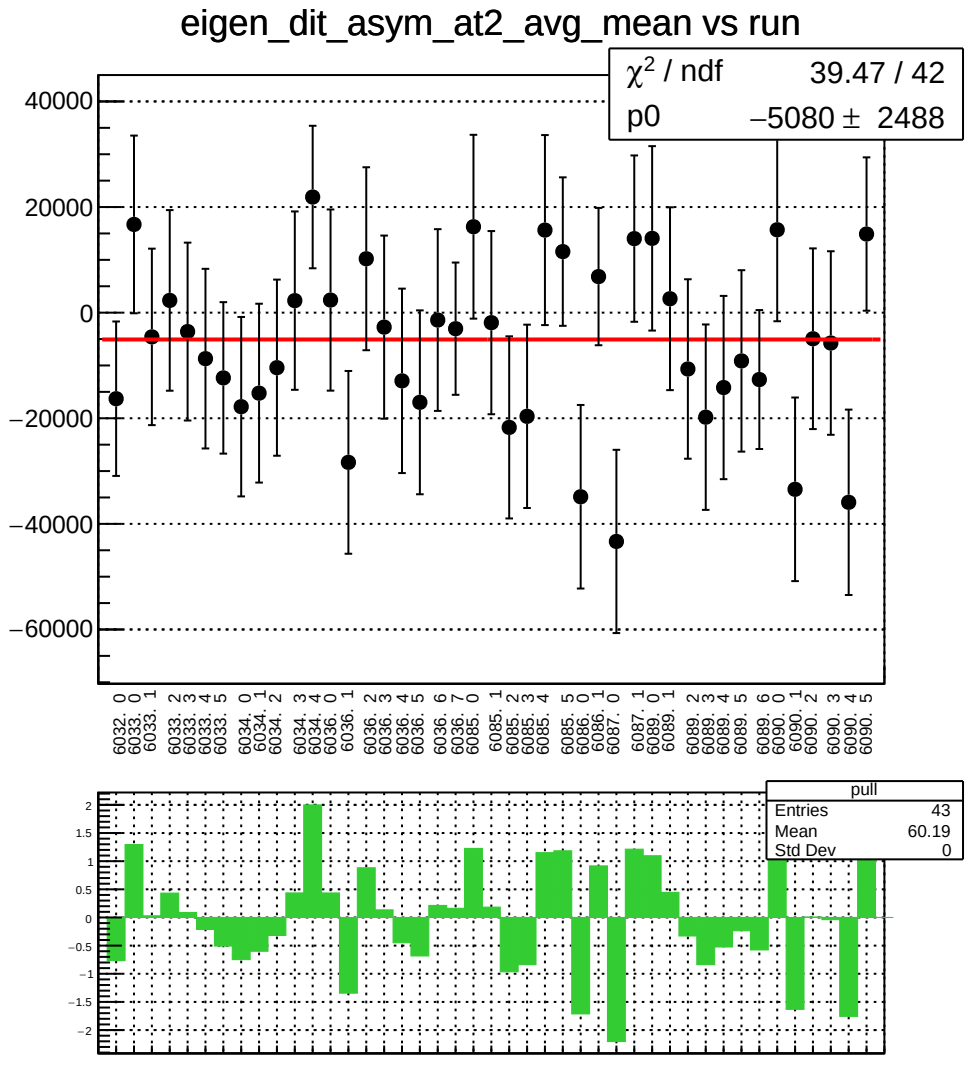

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6803 / 42
p0 6087 ± 6.539
8000
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

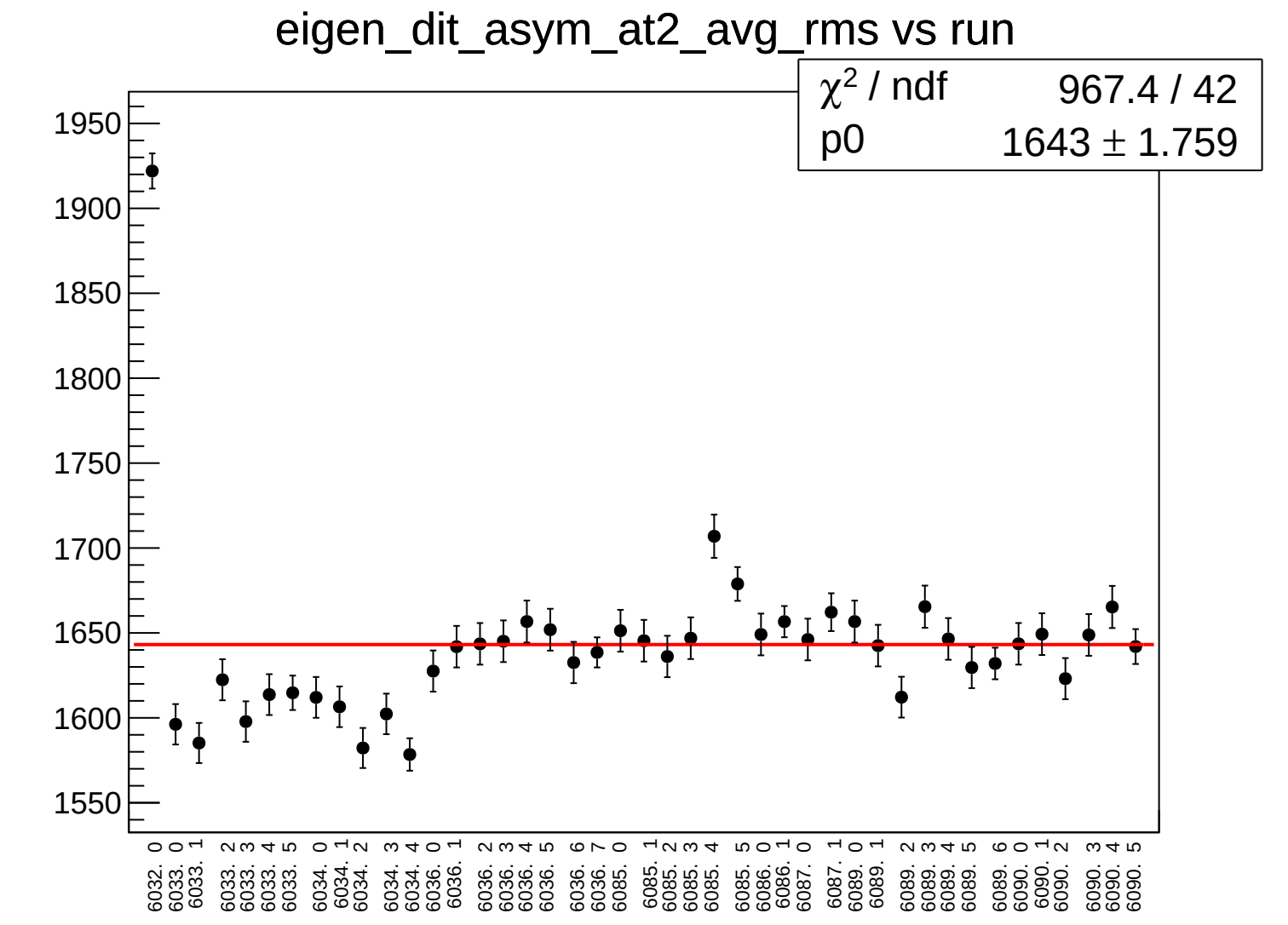

dit_asym_at2_avg_mean vs run
χ² / ndf 39.47 / 42
p0 −5080 ± 2488
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 60.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0273
Std Dev 0.9577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

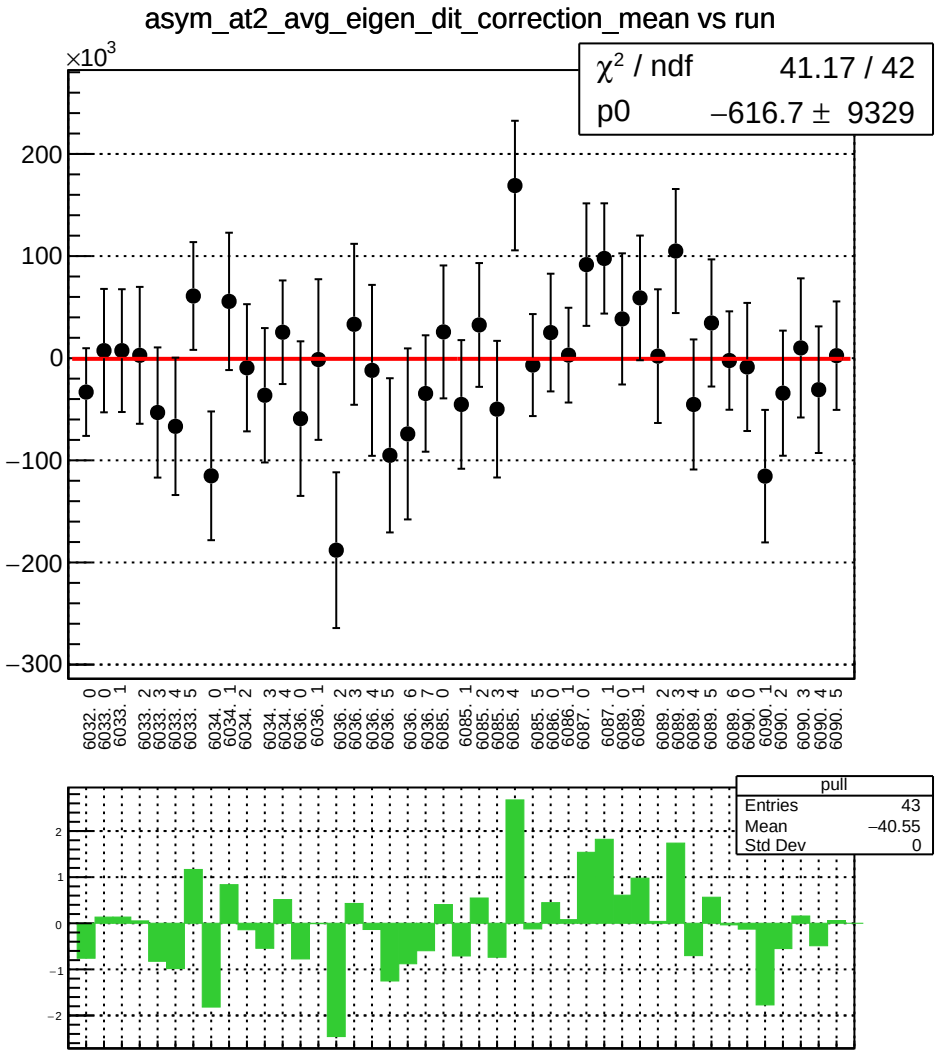

dit_asym_at2_avg_rms vs run
χ² / ndf 967.4 / 42
p0 1643 ± 1.759
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

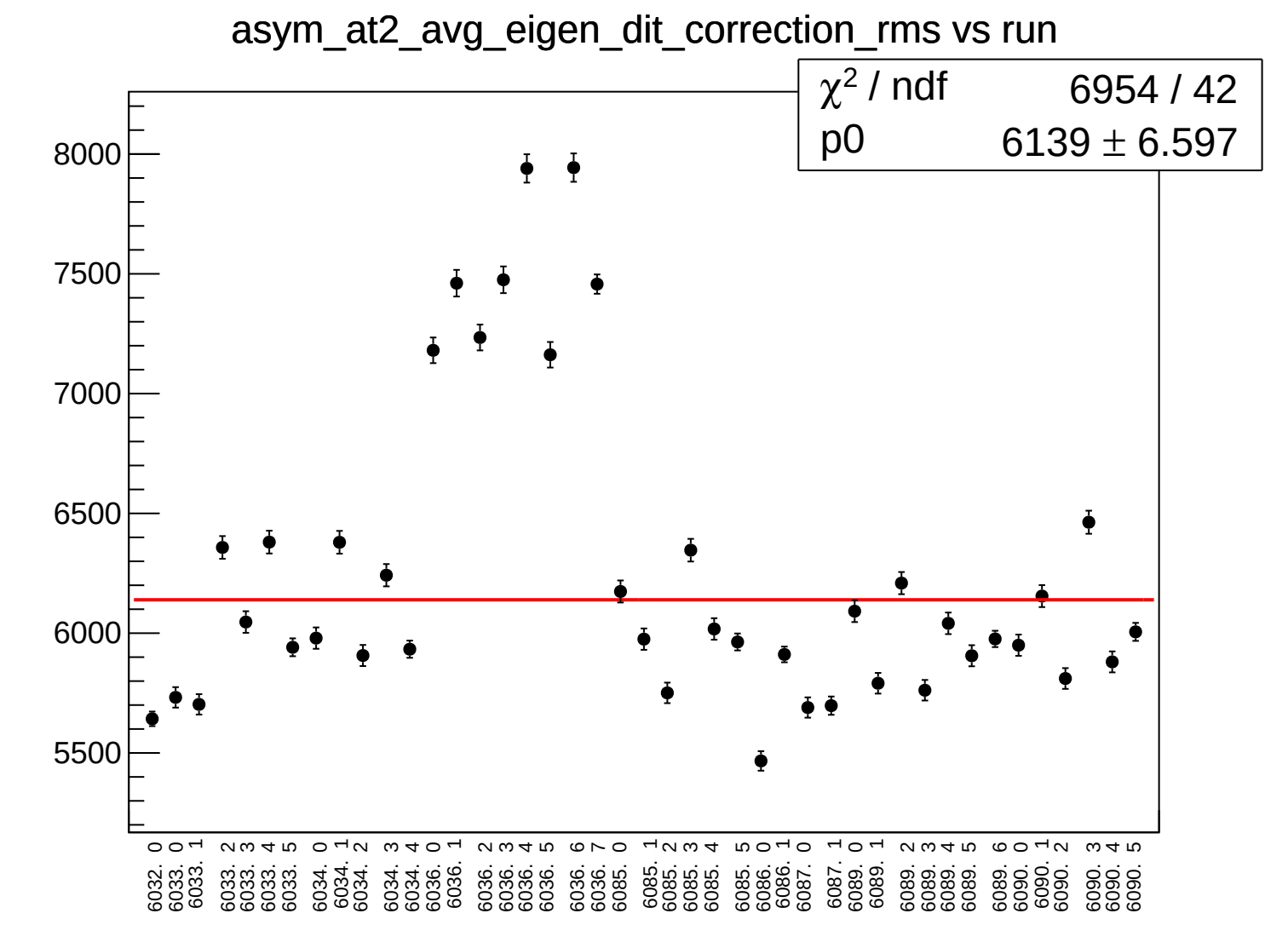

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −616.7 ± 9329
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0344
Std Dev 0.9779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6954 / 42
p0 6139 ± 6.597
8000
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 39.47 / 42
p0 −5080 ± 2488
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 60.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0273
Std Dev 0.9577
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 967.4 / 42
p0 1643 ± 1.759
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −616.7 ± 9329
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0344
Std Dev 0.9779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6954 / 42
p0 6139 ± 6.597
8000
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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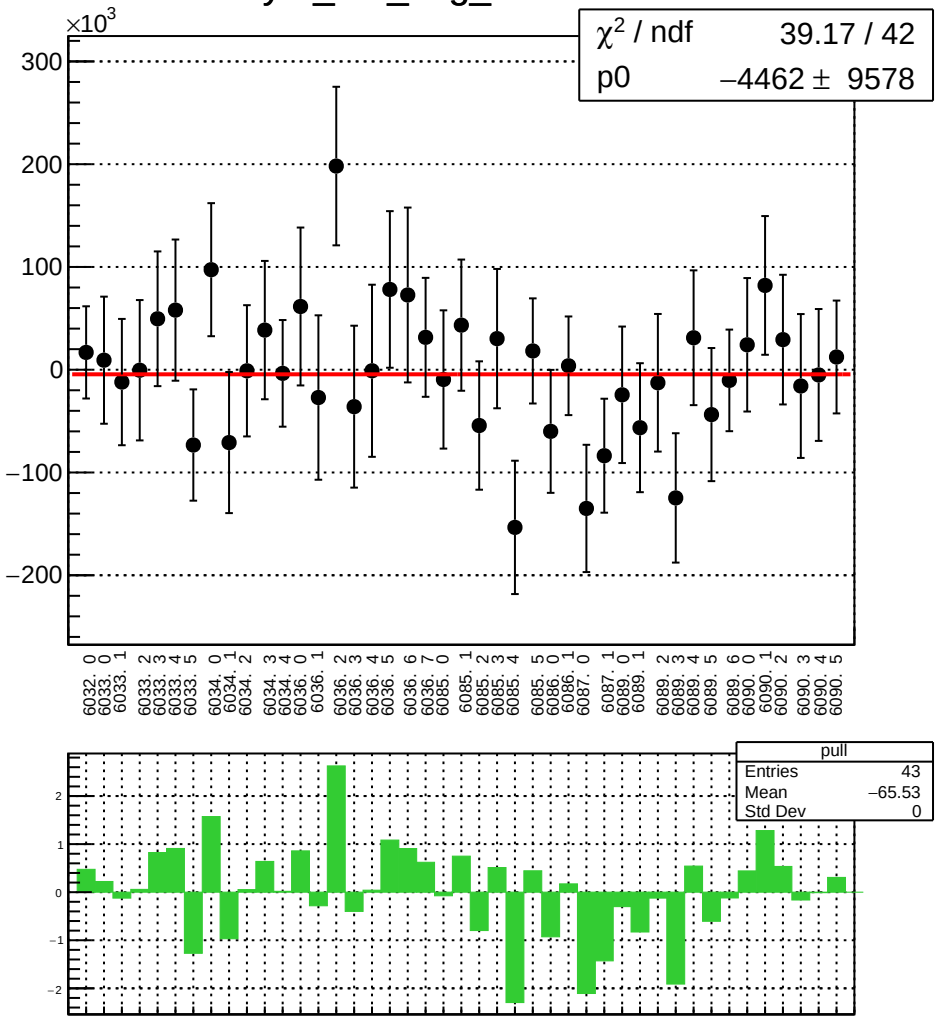
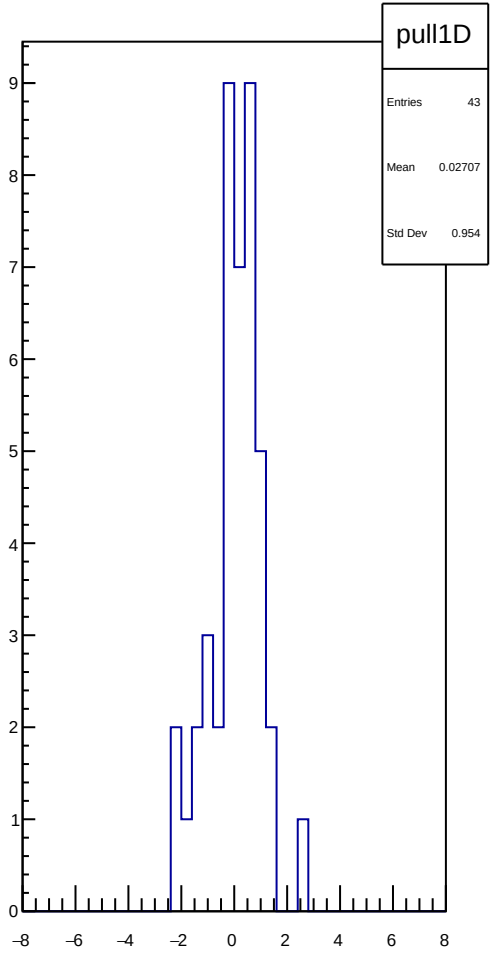
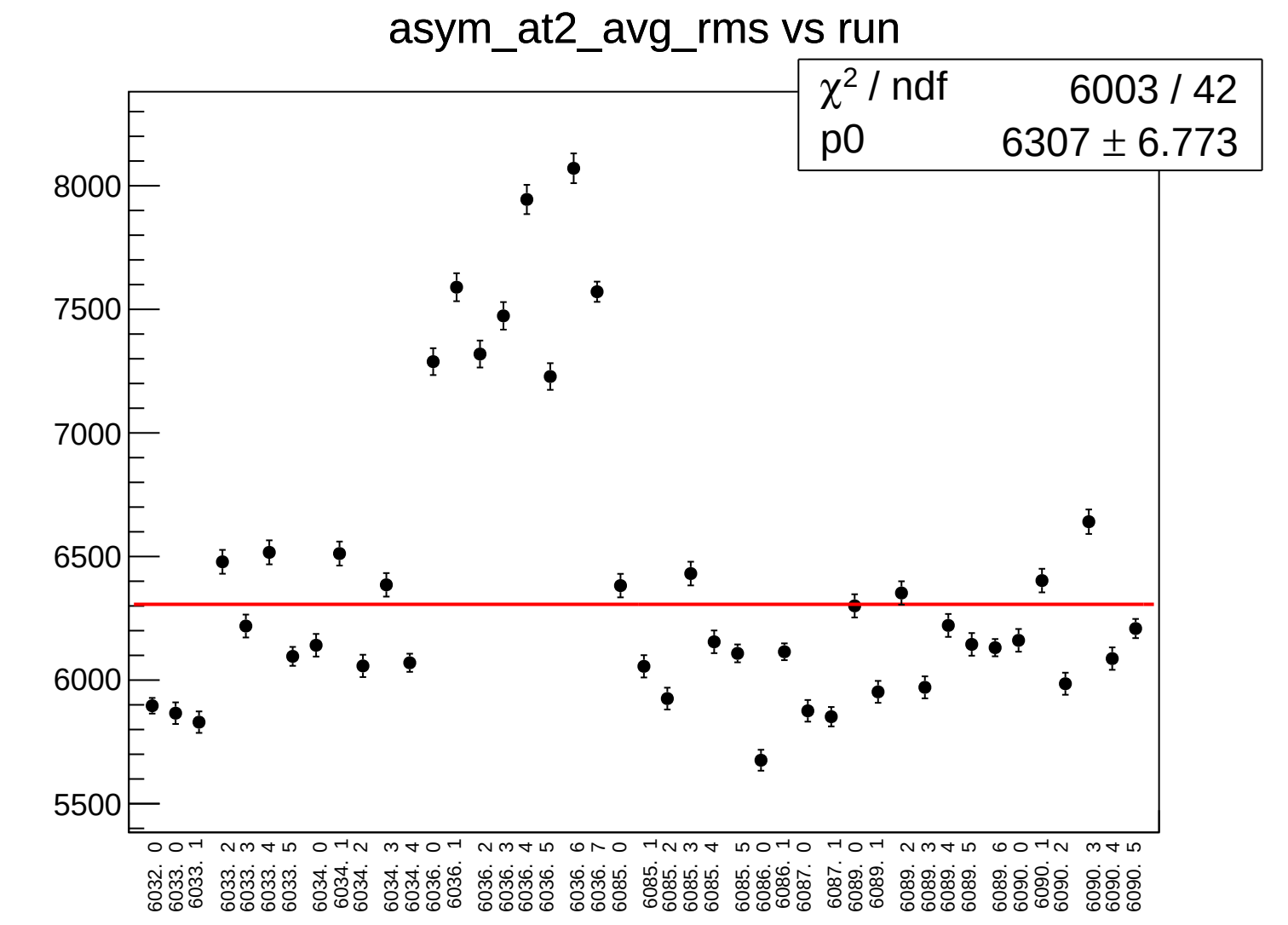
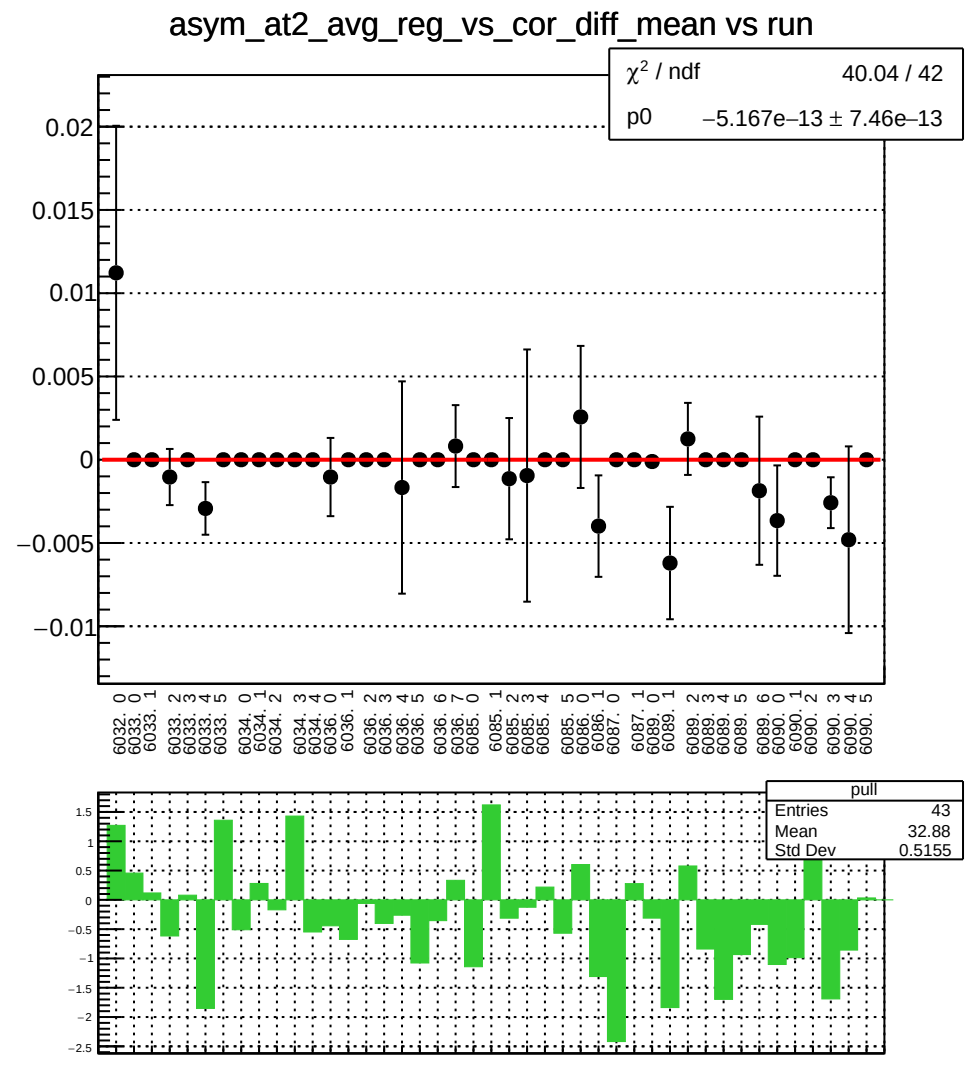
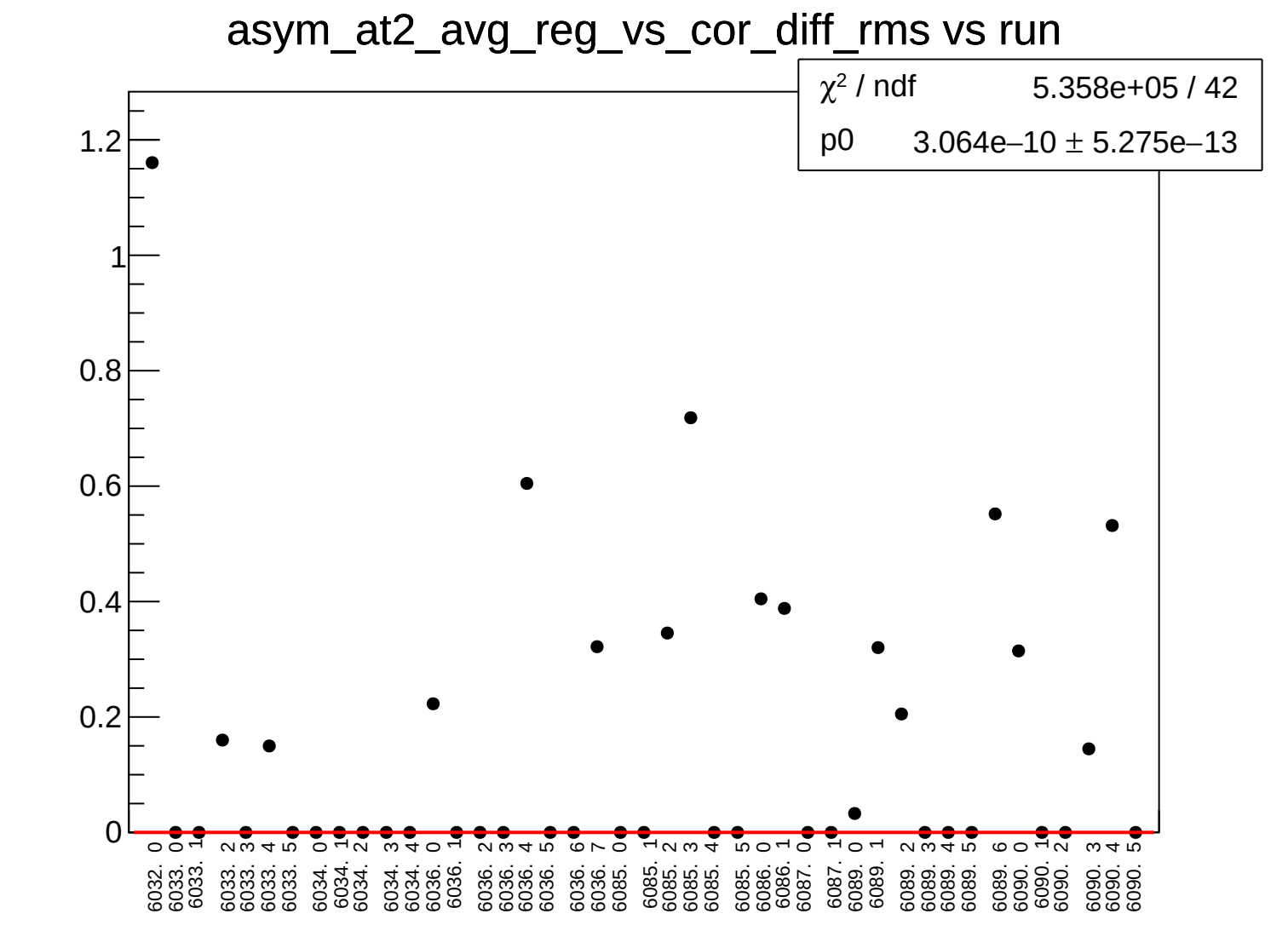
6090. 4
6090. 5

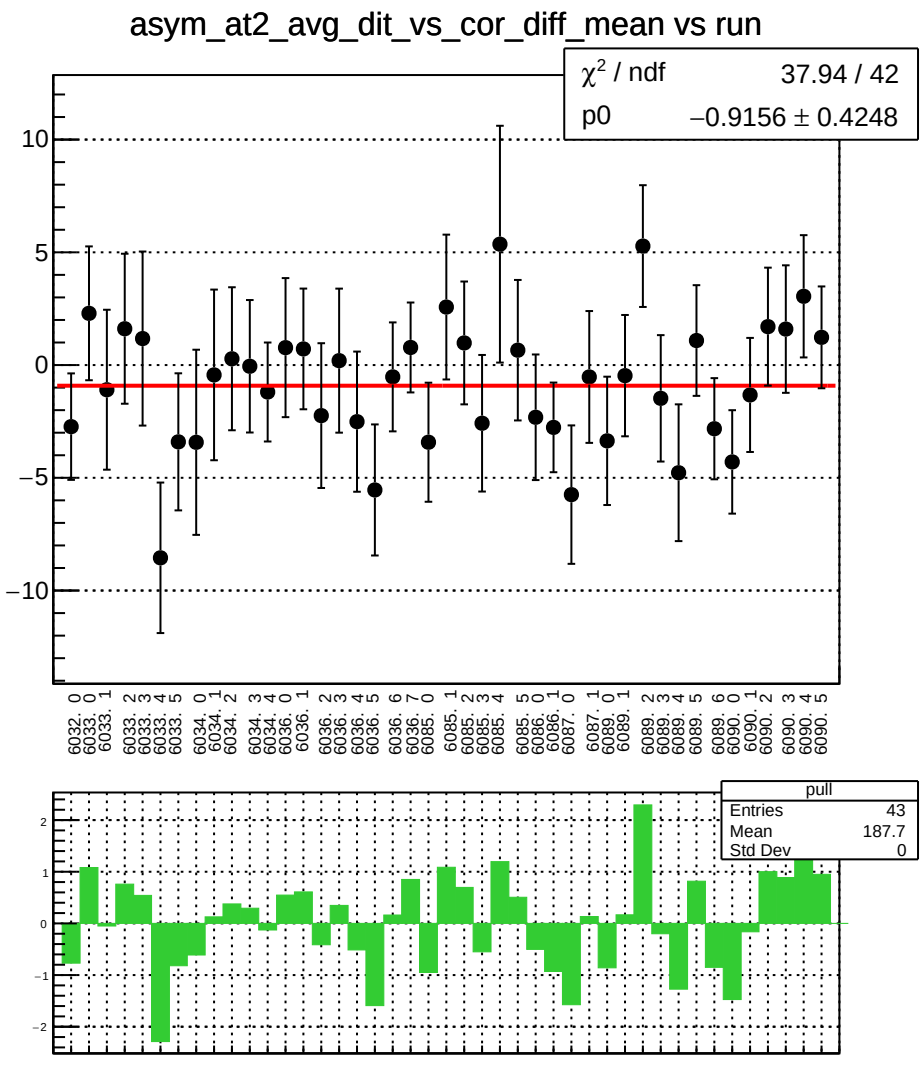

asym_at2_avg_mean vs run
×10^3
χ² / ndf 39.17 / 42
p0 −4462 ± 9578
300
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −65.53
Std Dev 0
2
1
0
−1
−2

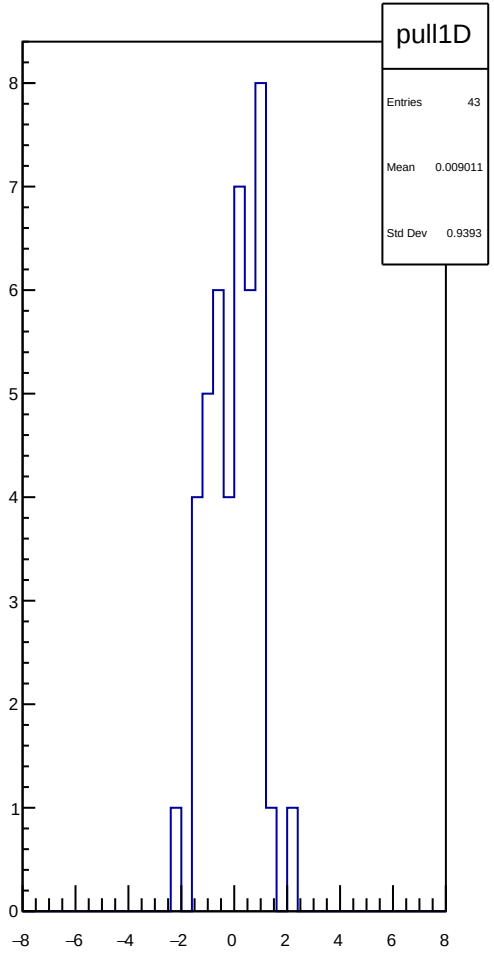

pull1D
Entries 43
Mean 0.02707
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

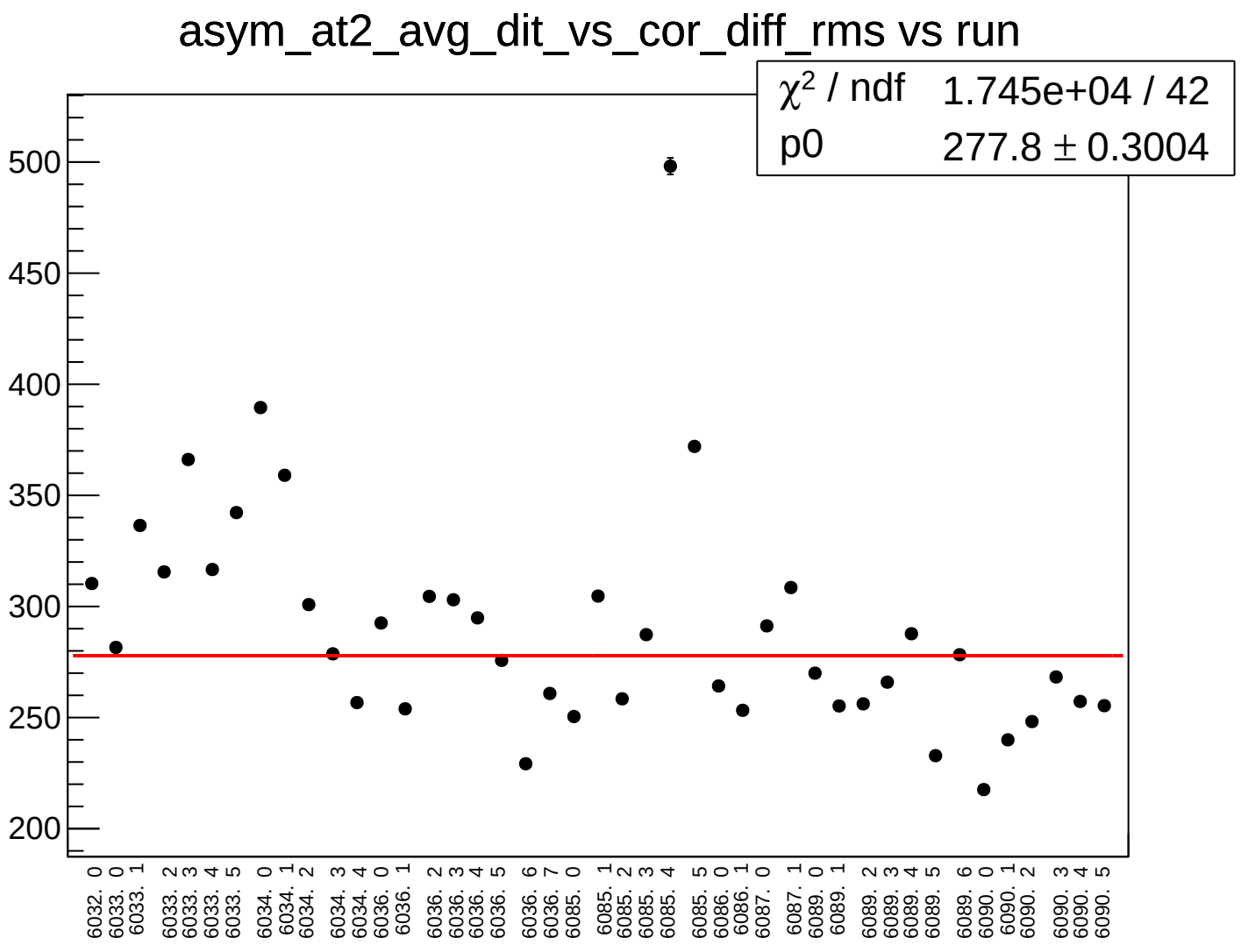

asym_at2_avg_rms vs run
χ² / ndf 6003 / 42
p0 6307 ± 6.773
8000
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

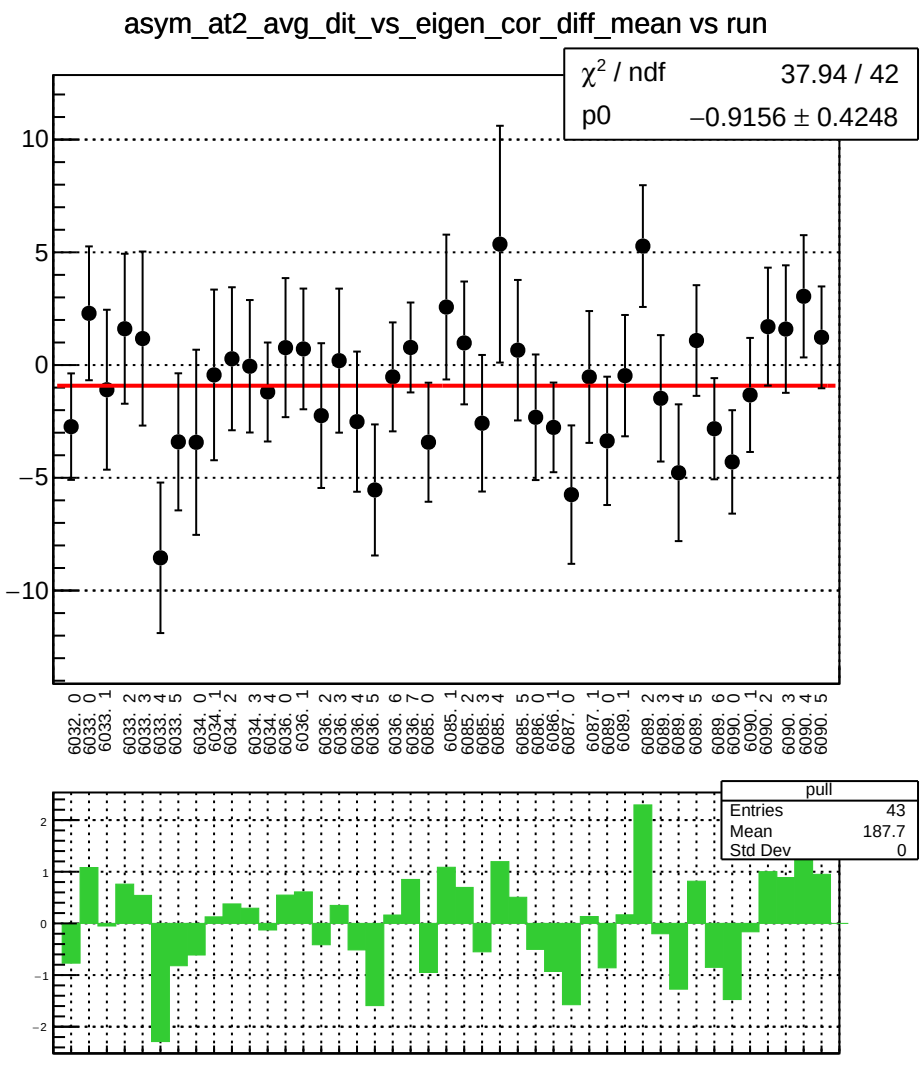

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.04 / 42
p0 −5.167e−13 ± 7.46e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.88
Std Dev 0.5155
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.3237
Std Dev 0.9091
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

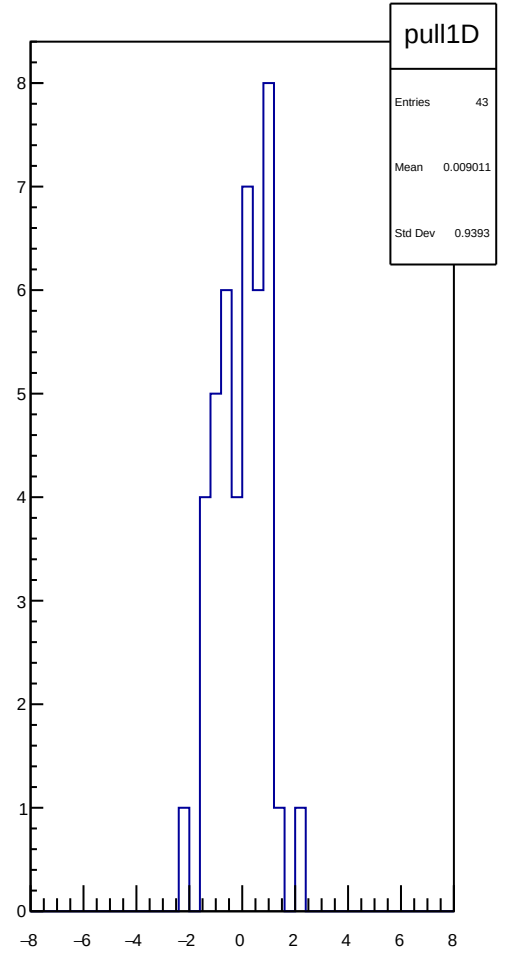

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.358e+05 / 42
p0 3.064e−10 ± 5.275e−13
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

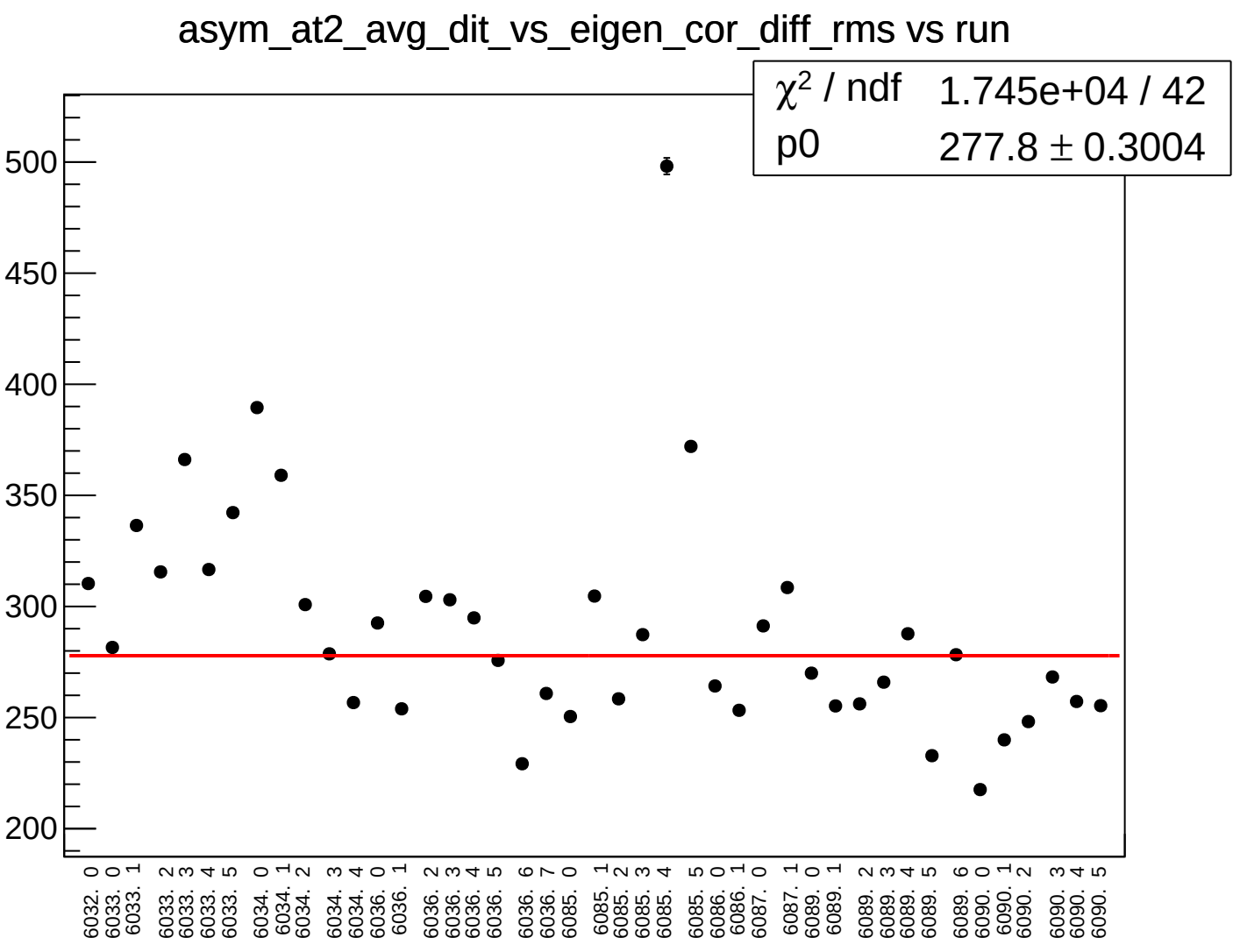

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.94 / 42
p0 −0.9156 ± 0.4248
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 187.7
Std Dev 0
2
1
0
−1
−2

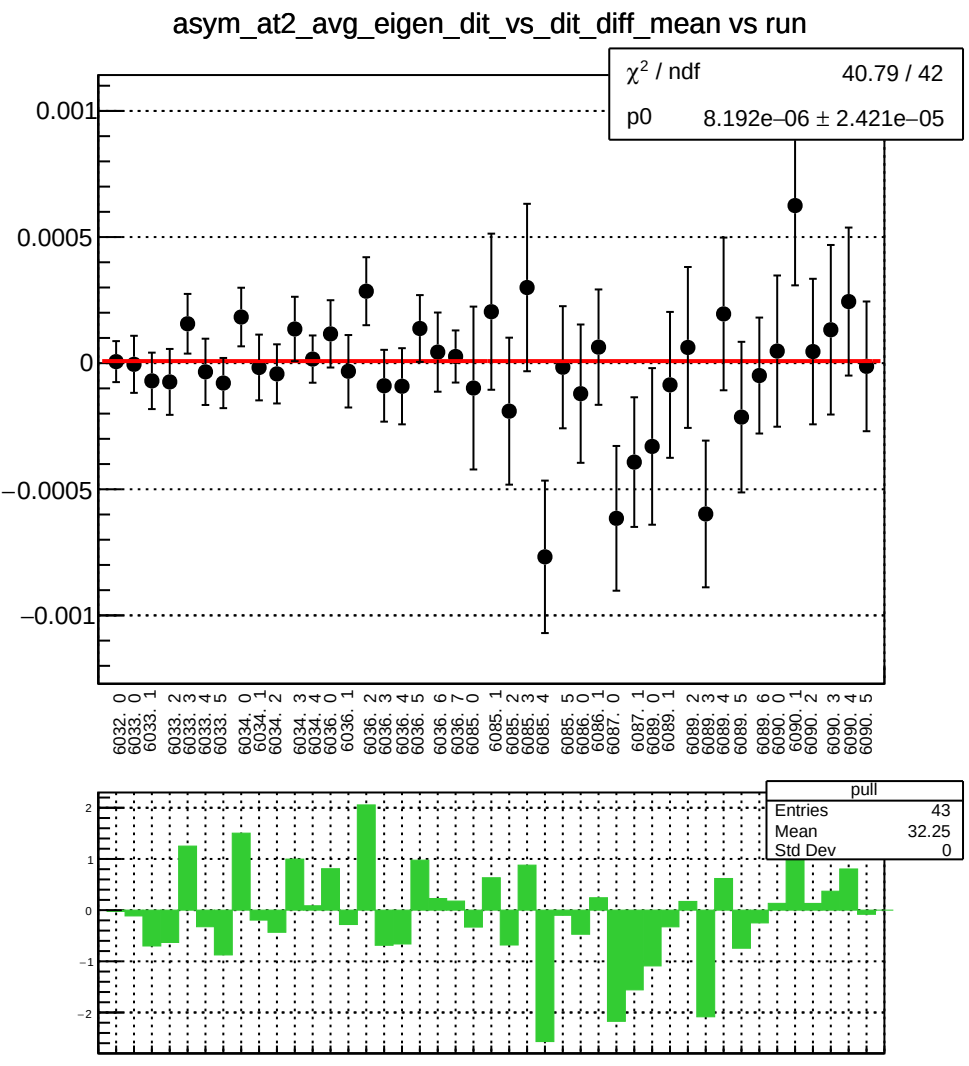

pull1D
Entries 43
Mean 0.009011
Std Dev 0.9393
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

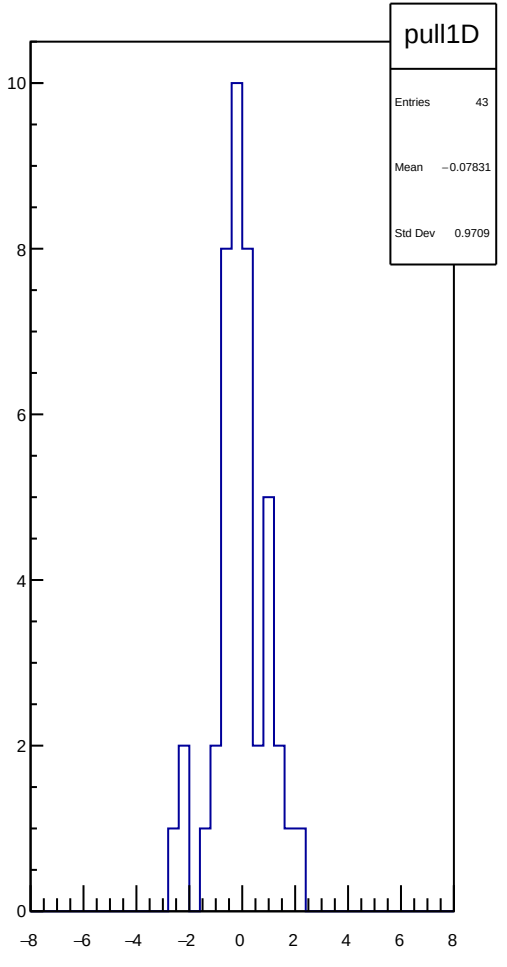

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.745e+04 / 42
p0 277.8 ± 0.3004
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

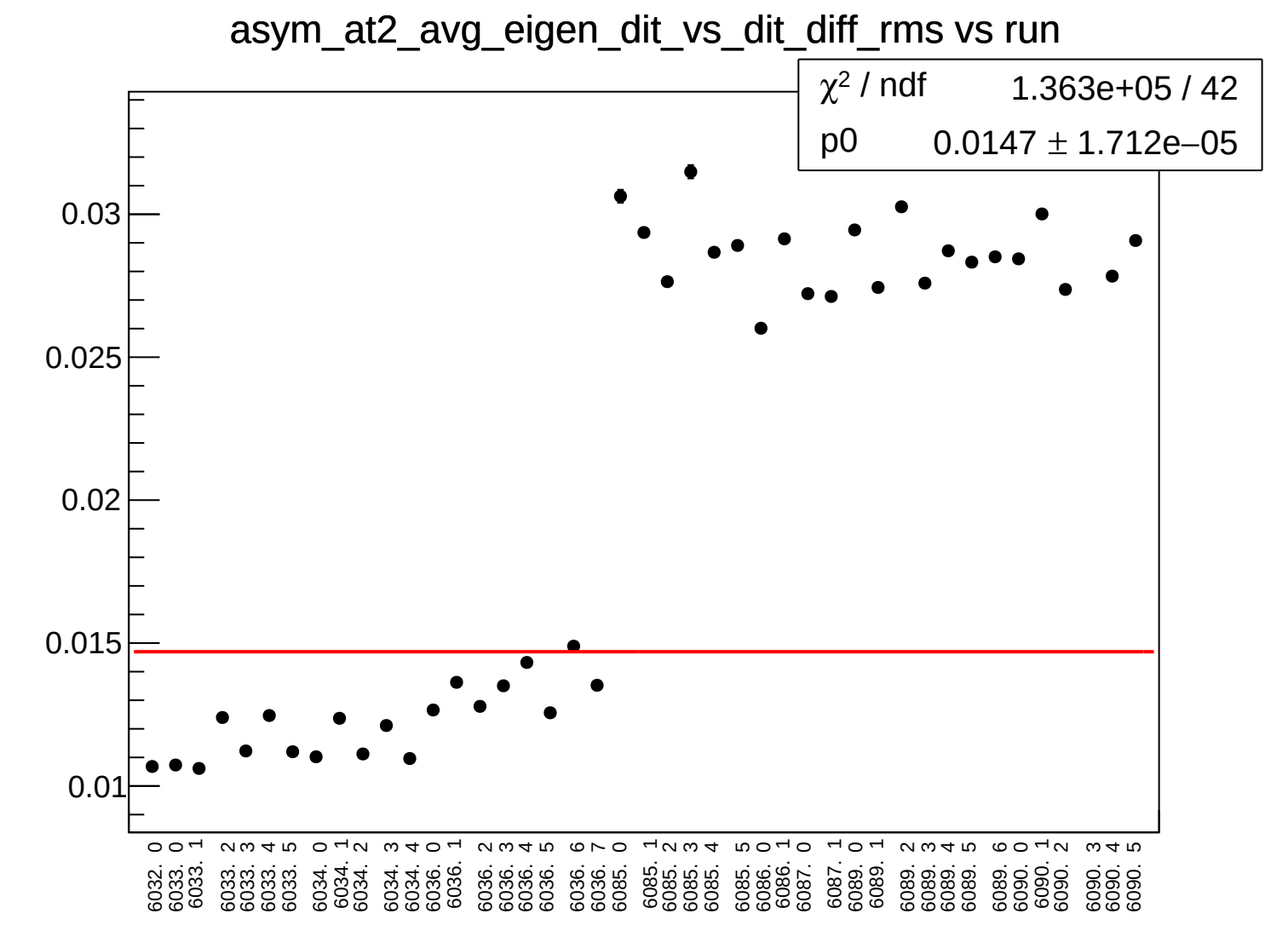

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.94 / 42
p0 −0.9156 ± 0.4248
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 187.7
Std Dev 0
2
1
0
−1
−2

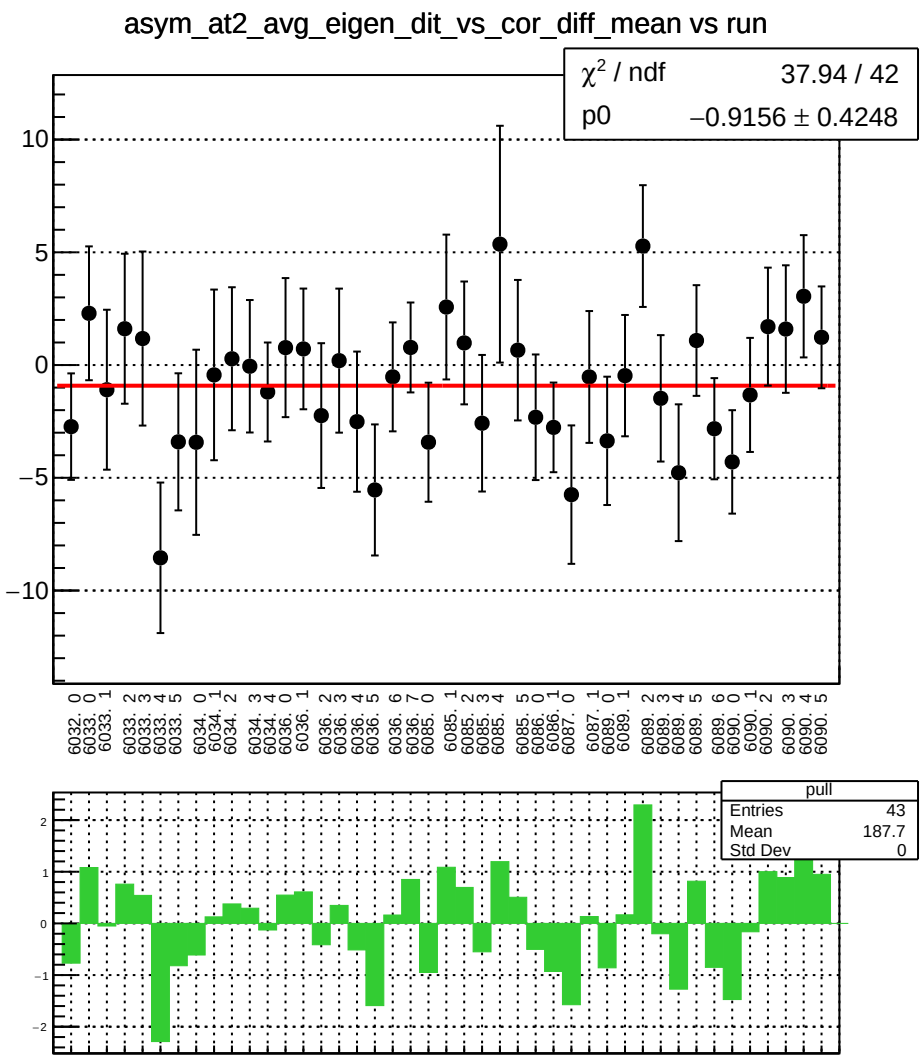

pull1D
Entries 43
Mean 0.009011
Std Dev 0.9393
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

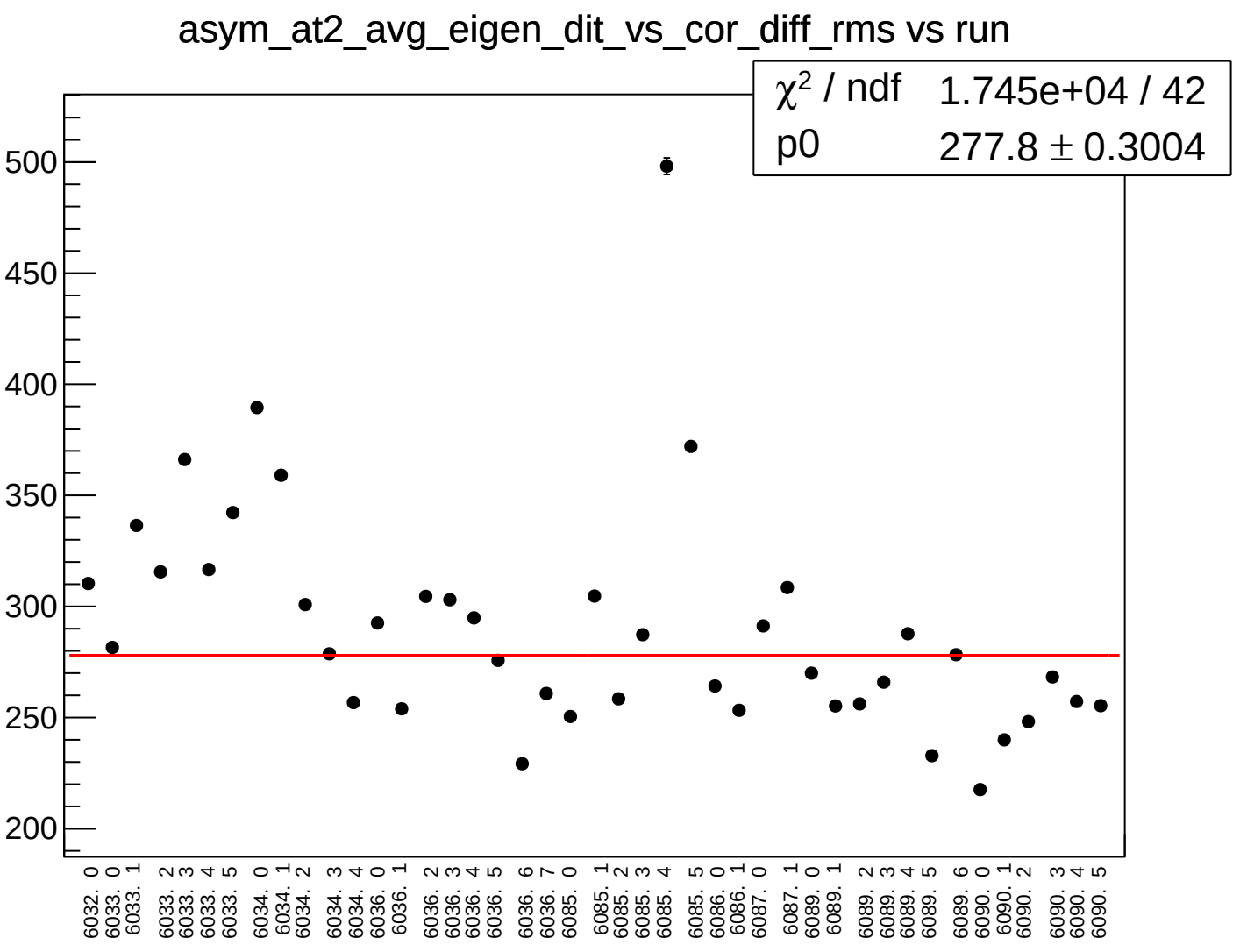

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.745e+04 / 42
p0 277.8 ± 0.3004
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

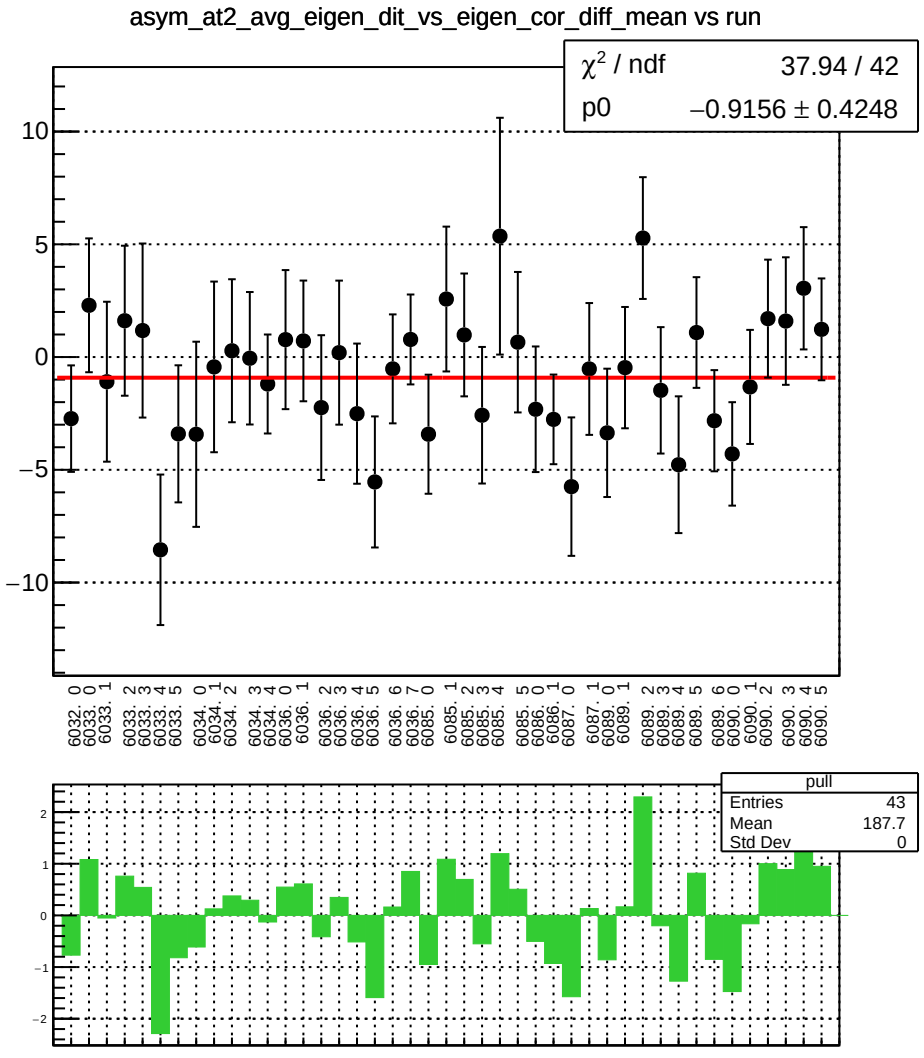

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.79 / 42
p0 8.192e−06 ± 2.421e−05
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.25
Std Dev 0
2
1
0
−1
−2

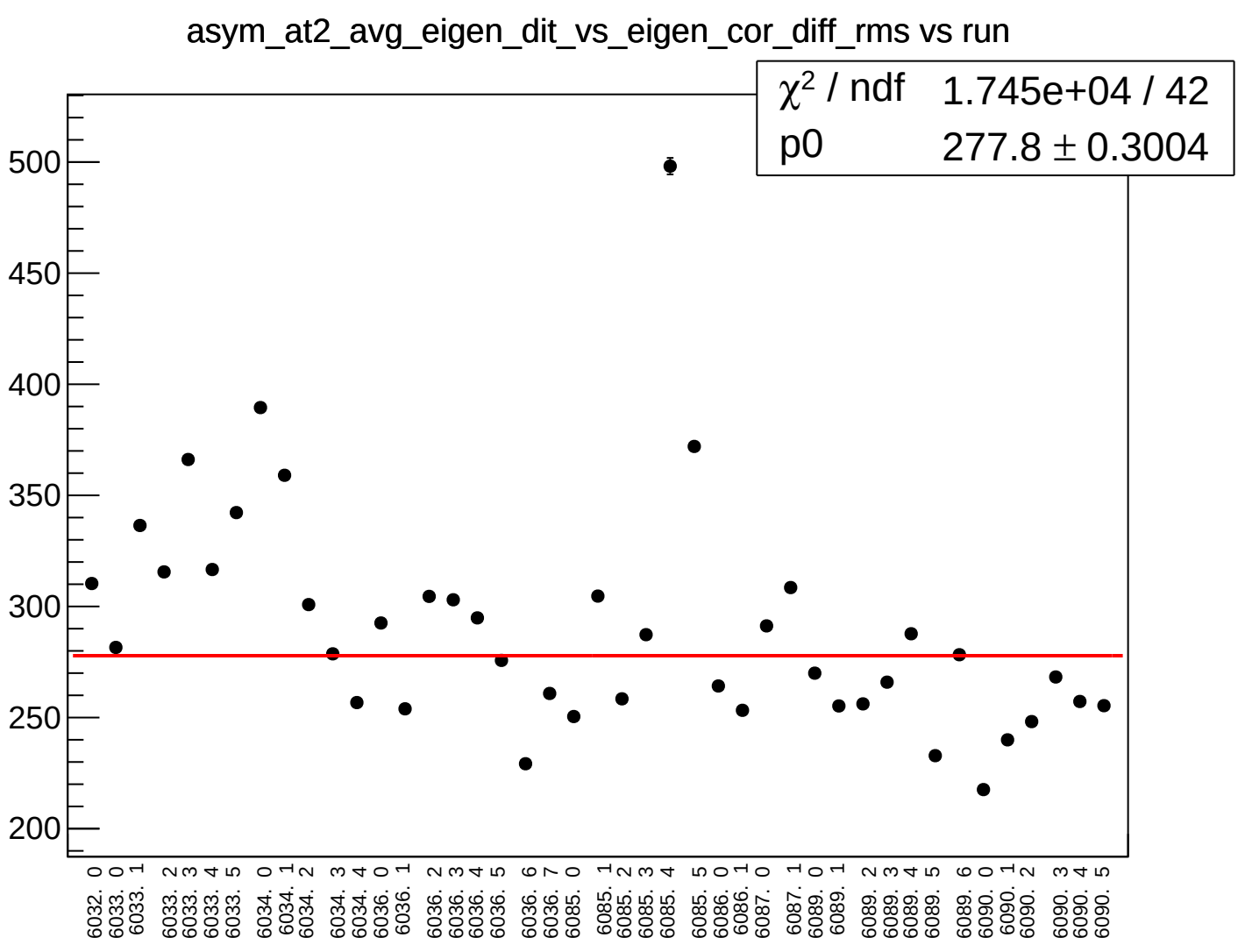

pull1D
Entries 43
Mean −0.07831
Std Dev 0.9709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

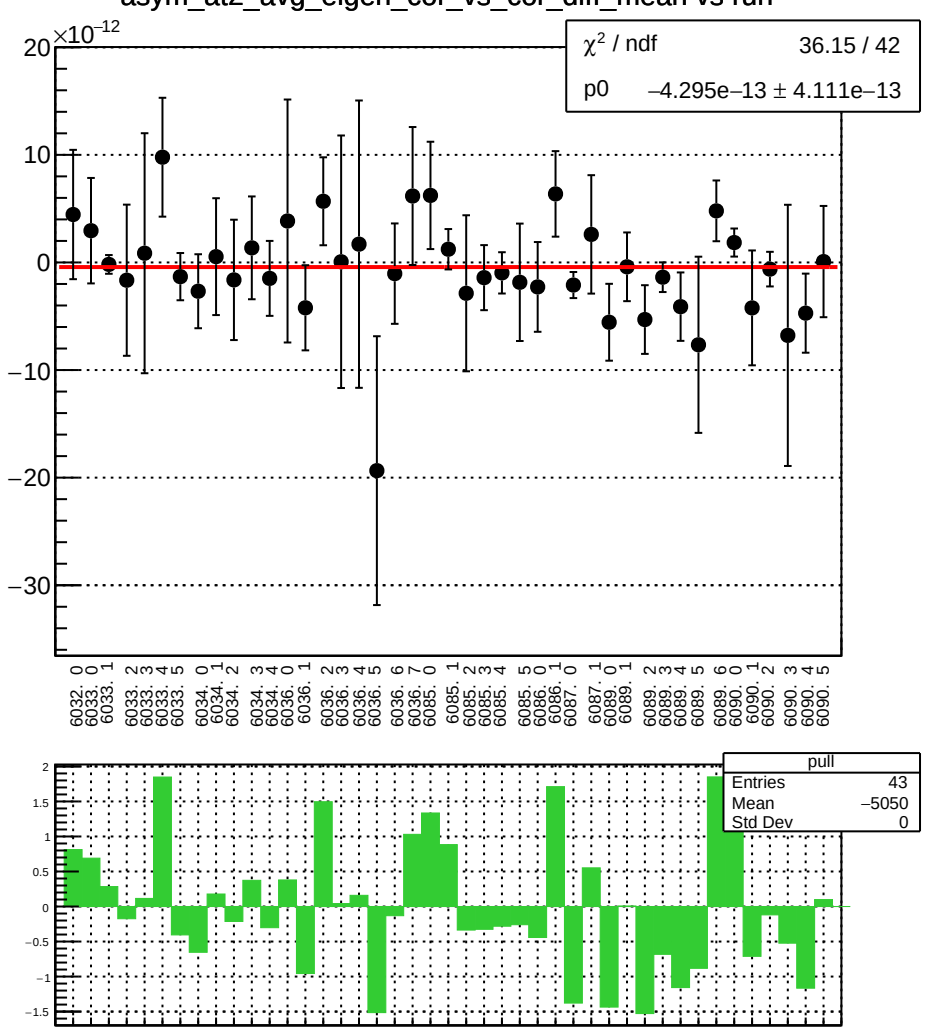

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.363e+05 / 42
p0 0.0147 ± 1.712e−05
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

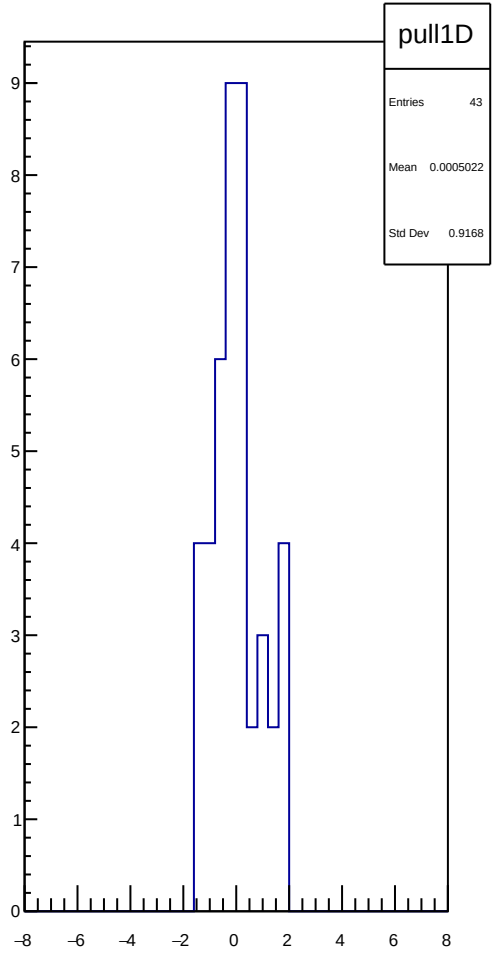

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.94 / 42
p0 −0.9156 ± 0.4248
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 187.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009008
Std Dev 0.9393
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

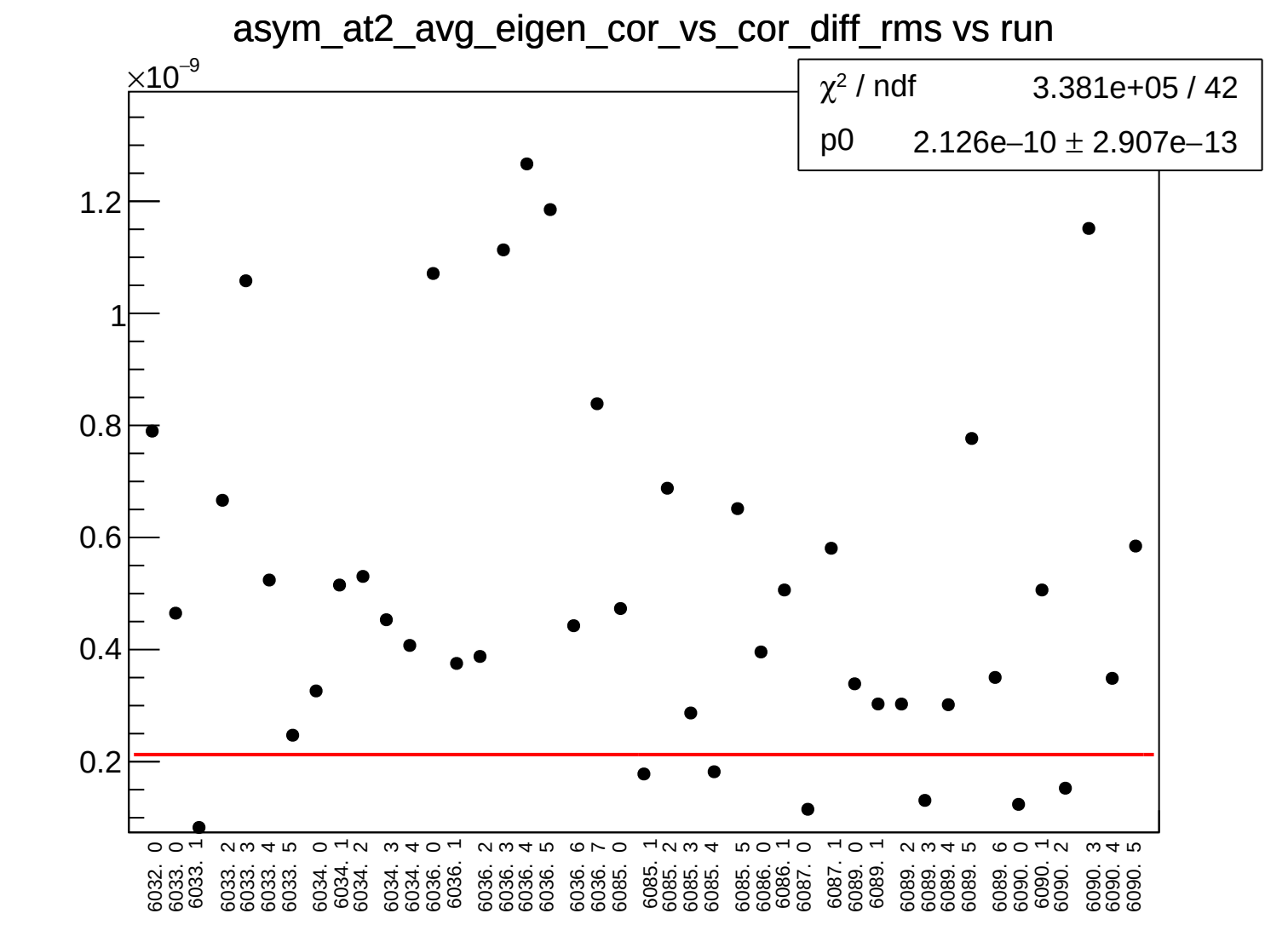

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.745e+04 / 42
p0 277.8 ± 0.3004
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

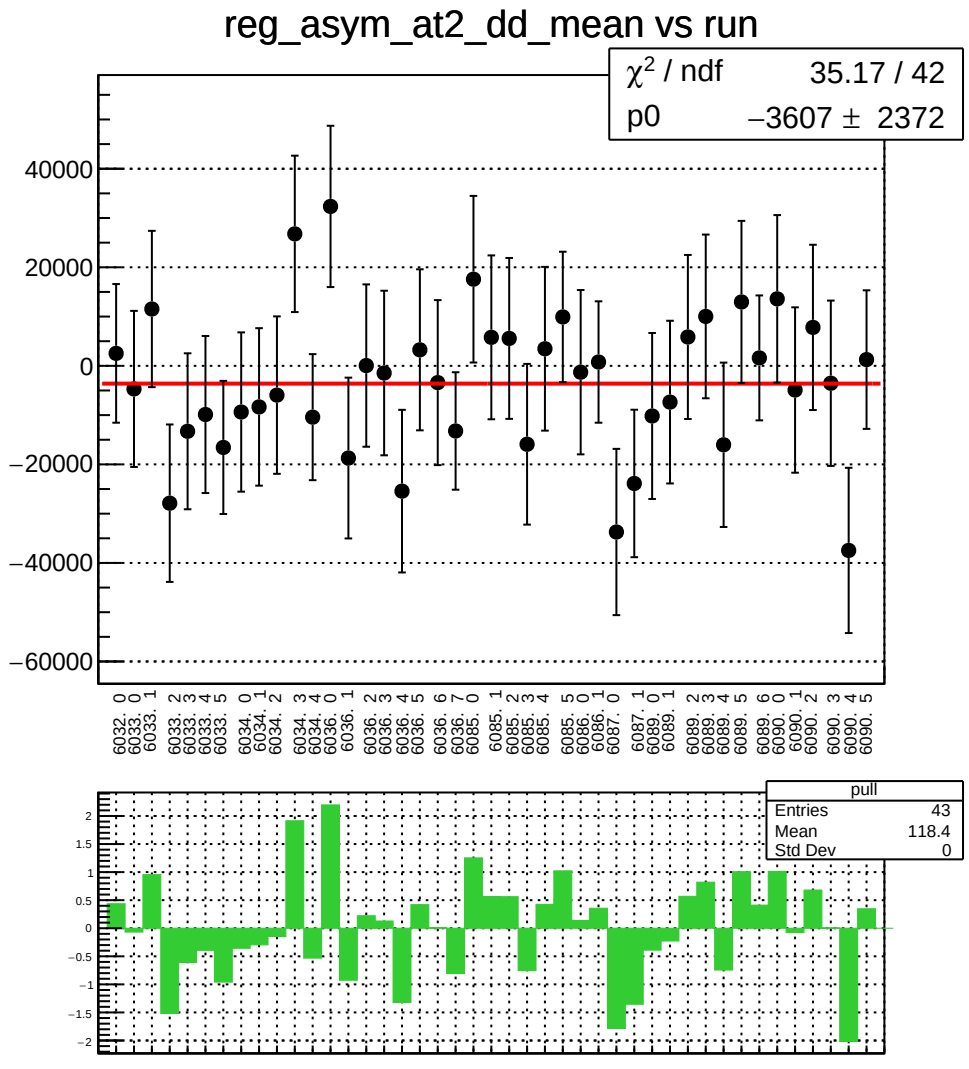

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.94 / 42
p0 −0.9156 ± 0.4248
pull
Entries 43
Mean 187.7
Std Dev 0
pull1D
Entries 43
Mean 0.009008
Std Dev 0.9393

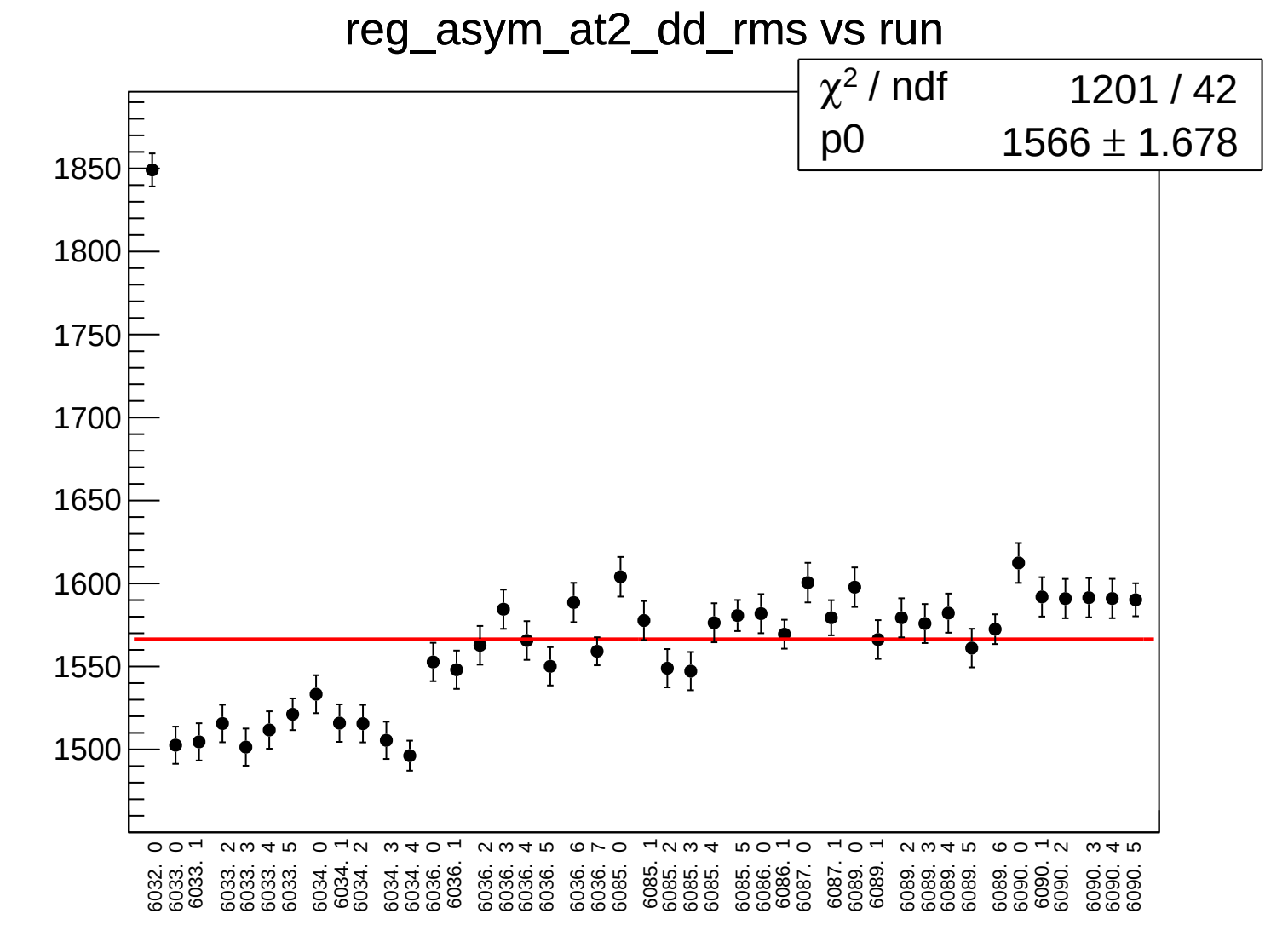

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.745e+04 / 42
p0 277.8 ± 0.3004
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

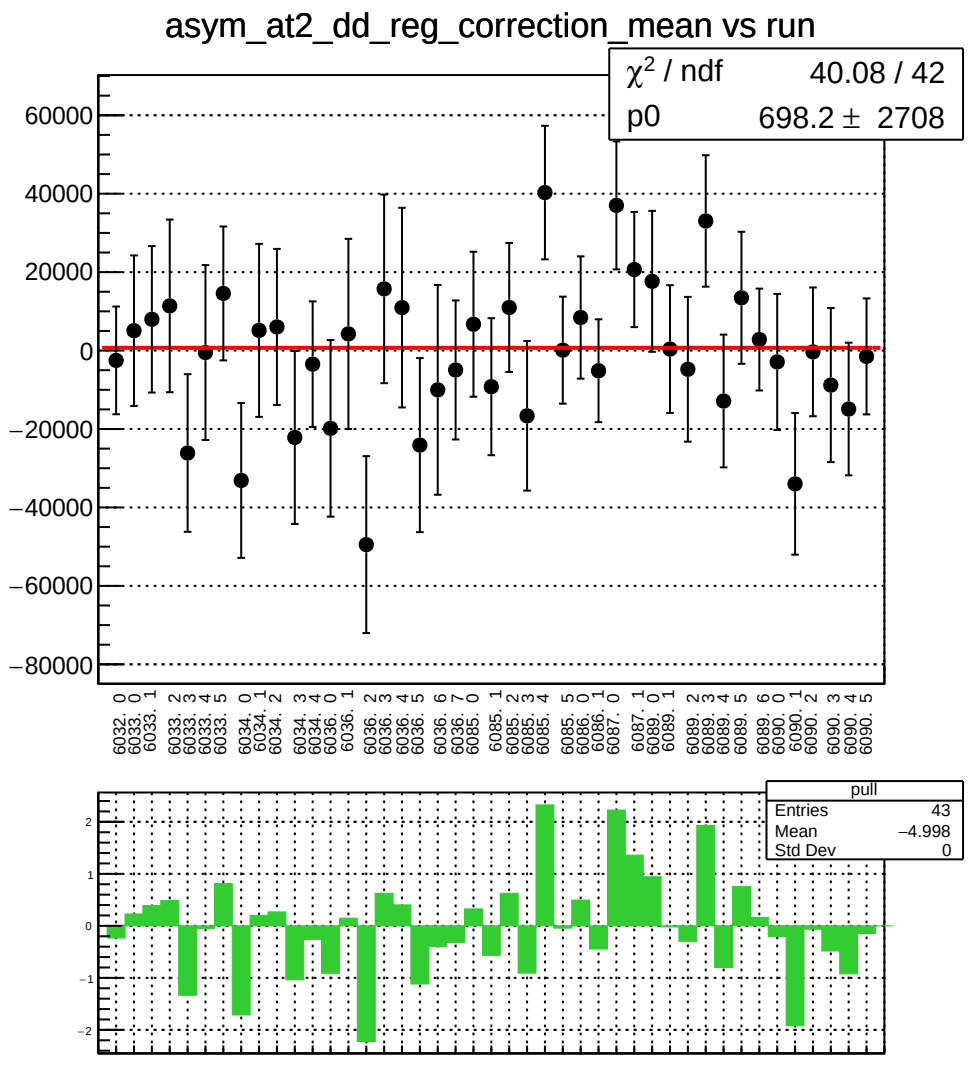

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.15 / 42
p0 −4.295e−13 ± 4.111e−13
pull
Entries 43
Mean −5050
Std Dev 0

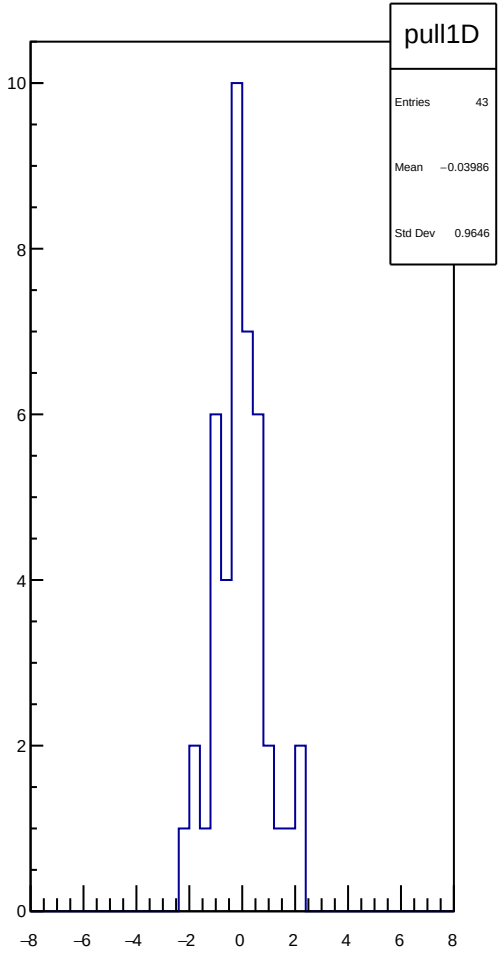

pull1D
Entries 43
Mean 0.0005022
Std Dev 0.9168

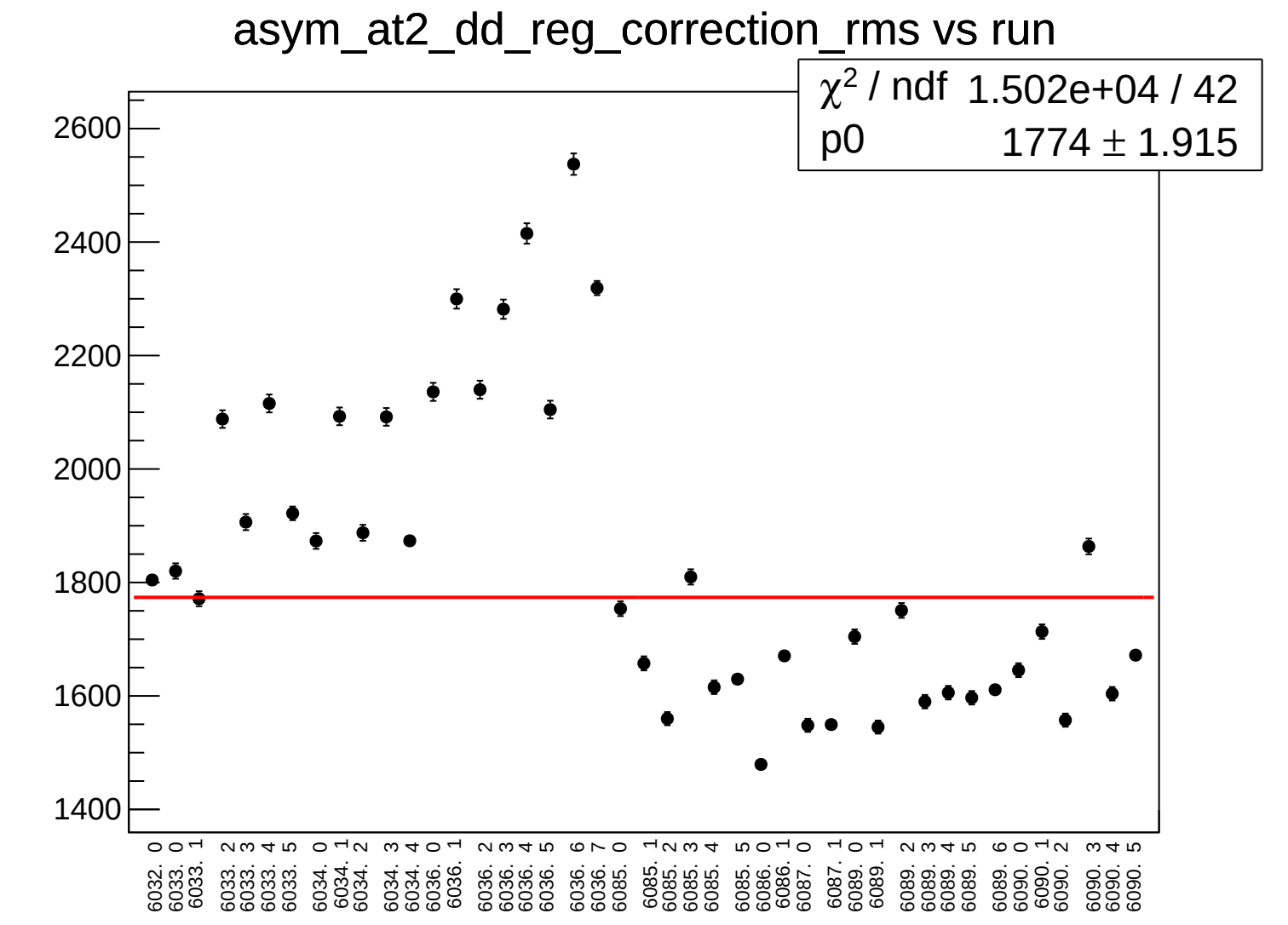

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.381e+05 / 42
p0 2.126e−10 ± 2.907e−13
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

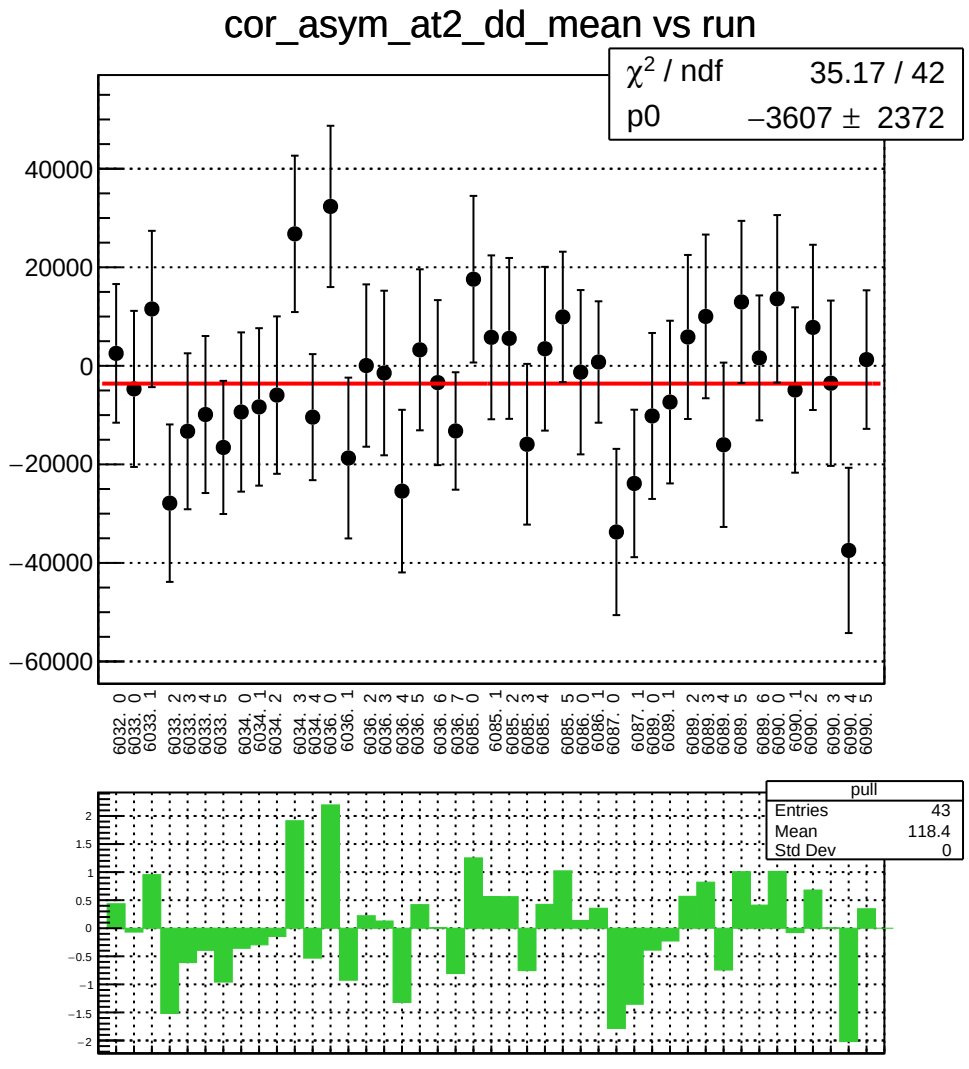

reg_asym_at2_dd_mean vs run
χ² / ndf 35.17 / 42
p0 −3607 ± 2372
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.00404
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

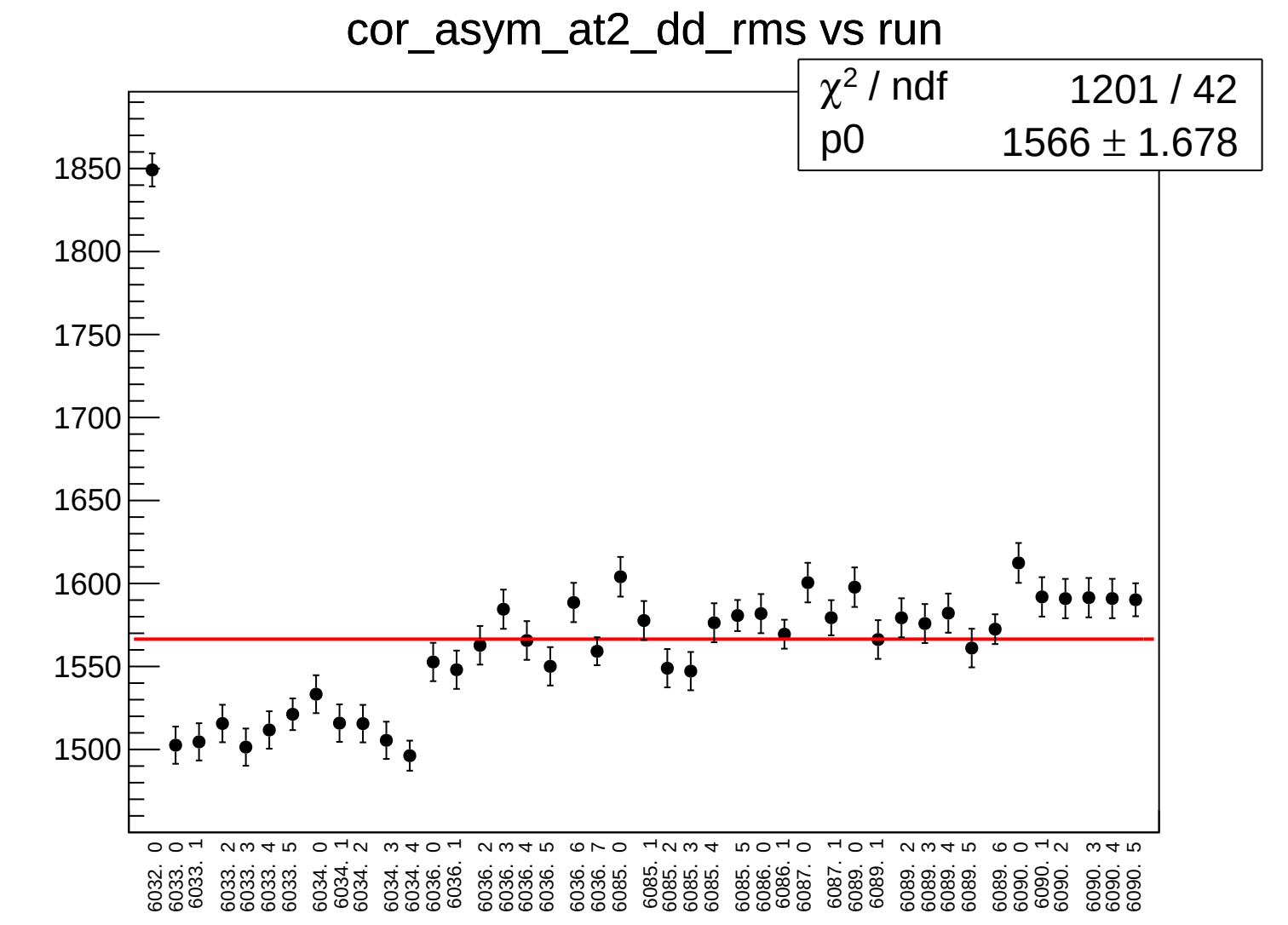

reg_asym_at2_dd_rms vs run
χ² / ndf 1201 / 42
p0 1566 ± 1.678
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

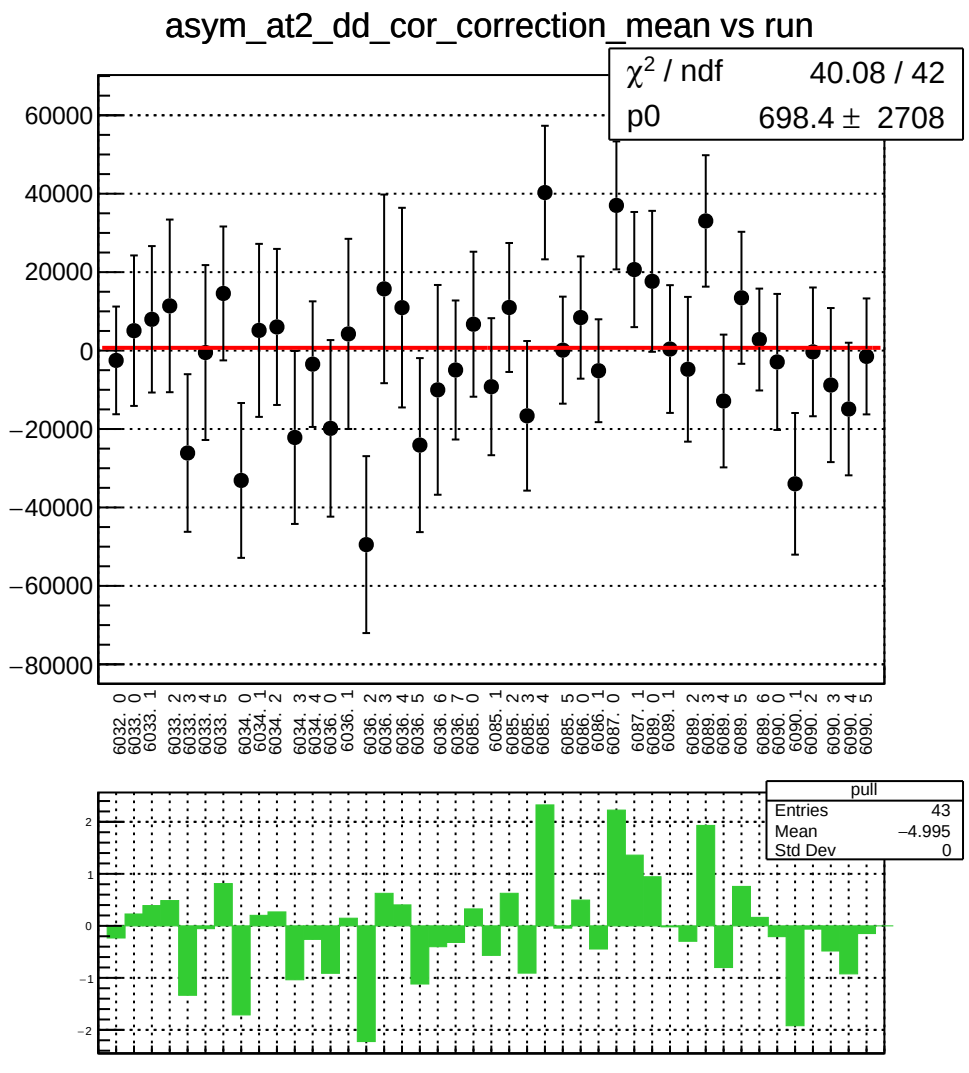

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 40.08 / 42
p0 698.2 ± 2708
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.998
Std Dev 0
2
1
0
−1
−2

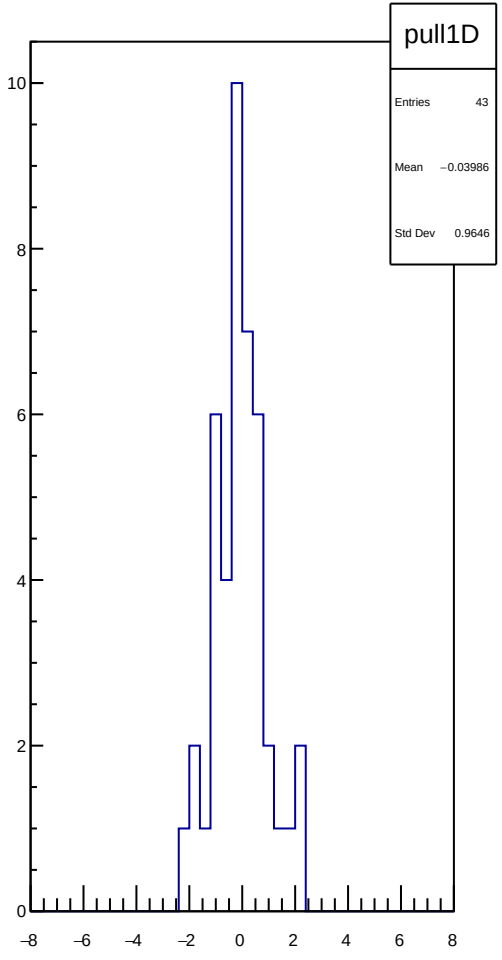

pull1D
Entries 43
Mean −0.03986
Std Dev 0.9646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

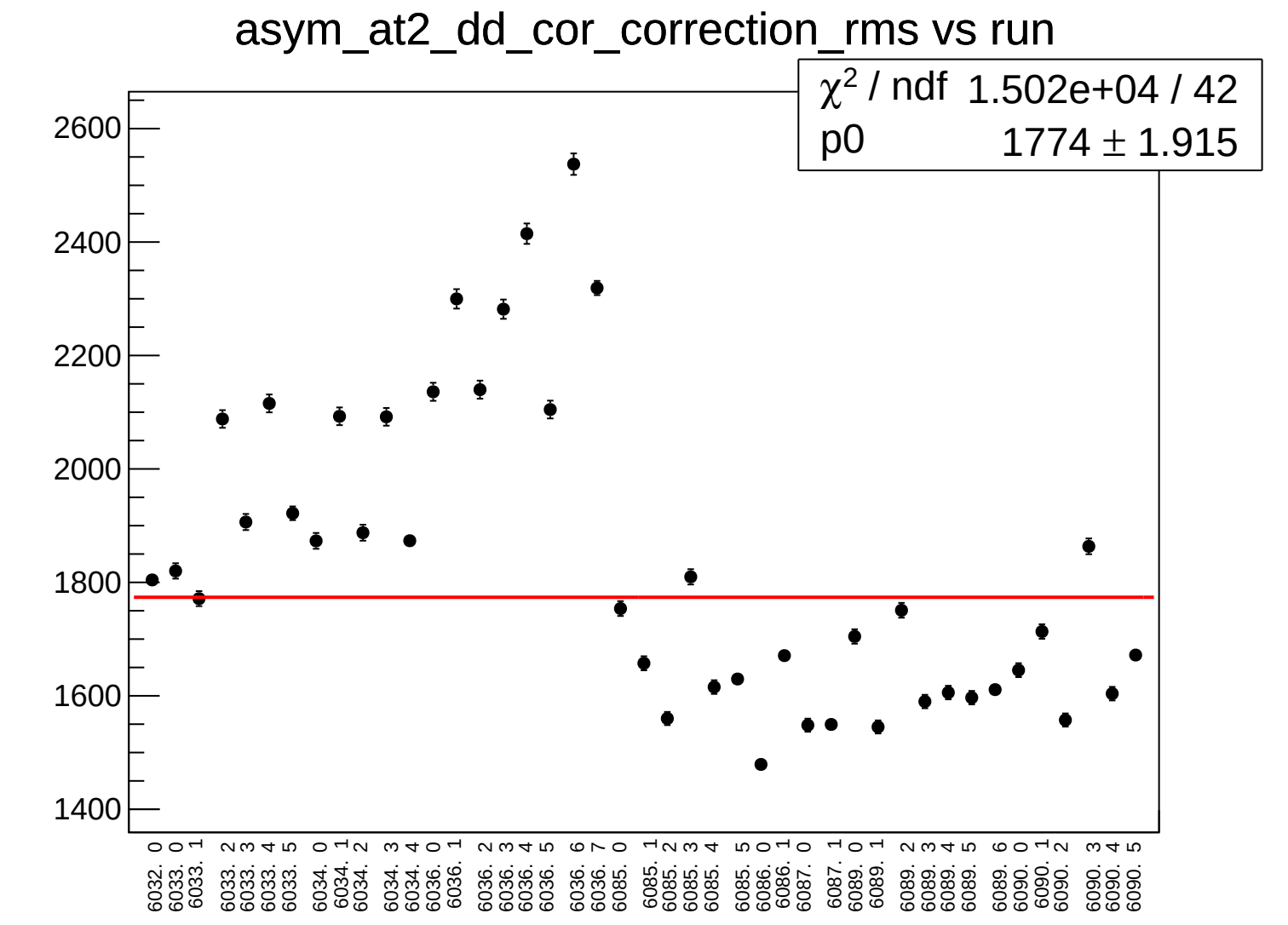

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.502e+04 / 42
p0 1774 ± 1.915
2600
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

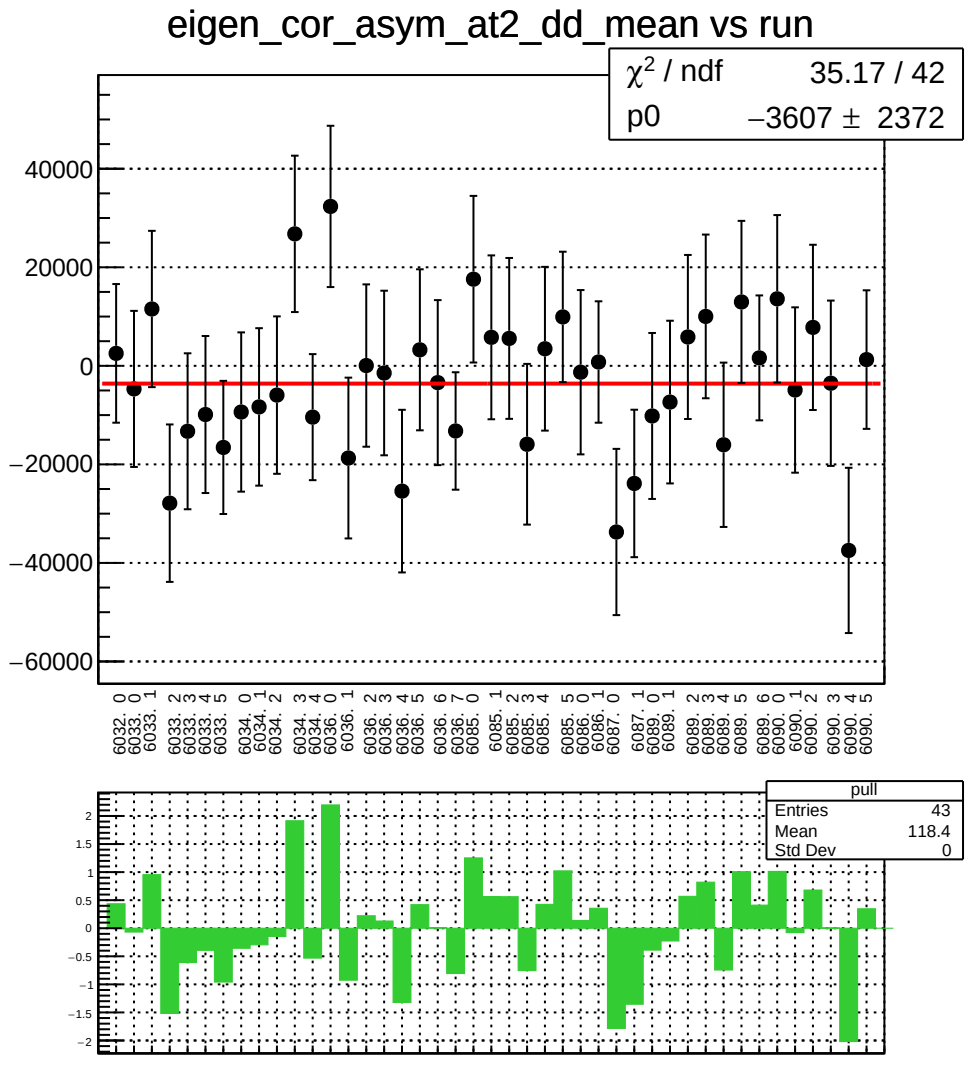

cor_asym_at2_dd_mean vs run
χ² / ndf 35.17 / 42
p0 −3607 ± 2372
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.004039
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

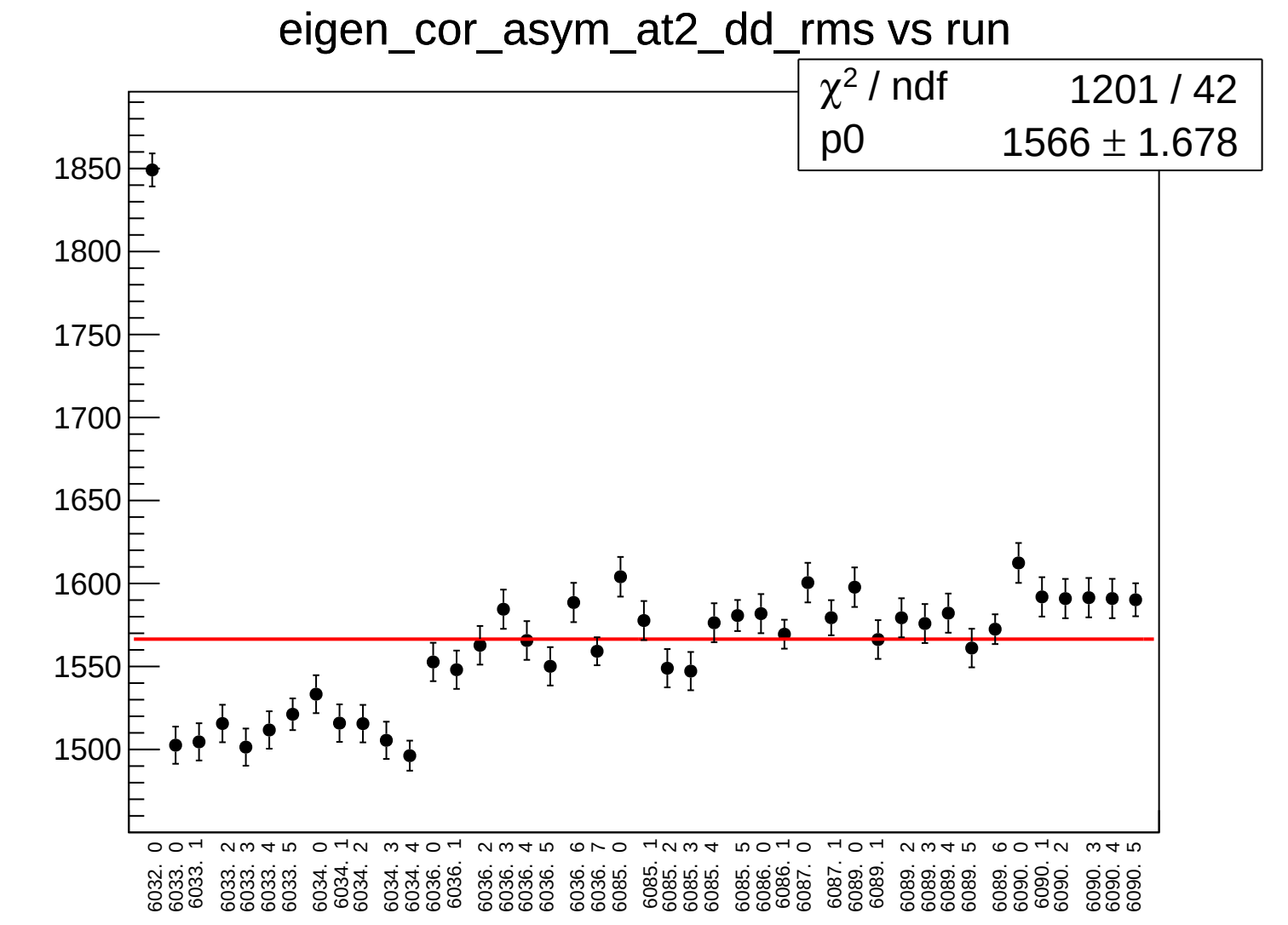

cor_asym_at2_dd_rms vs run
χ² / ndf 1201 / 42
p0 1566 ± 1.678
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

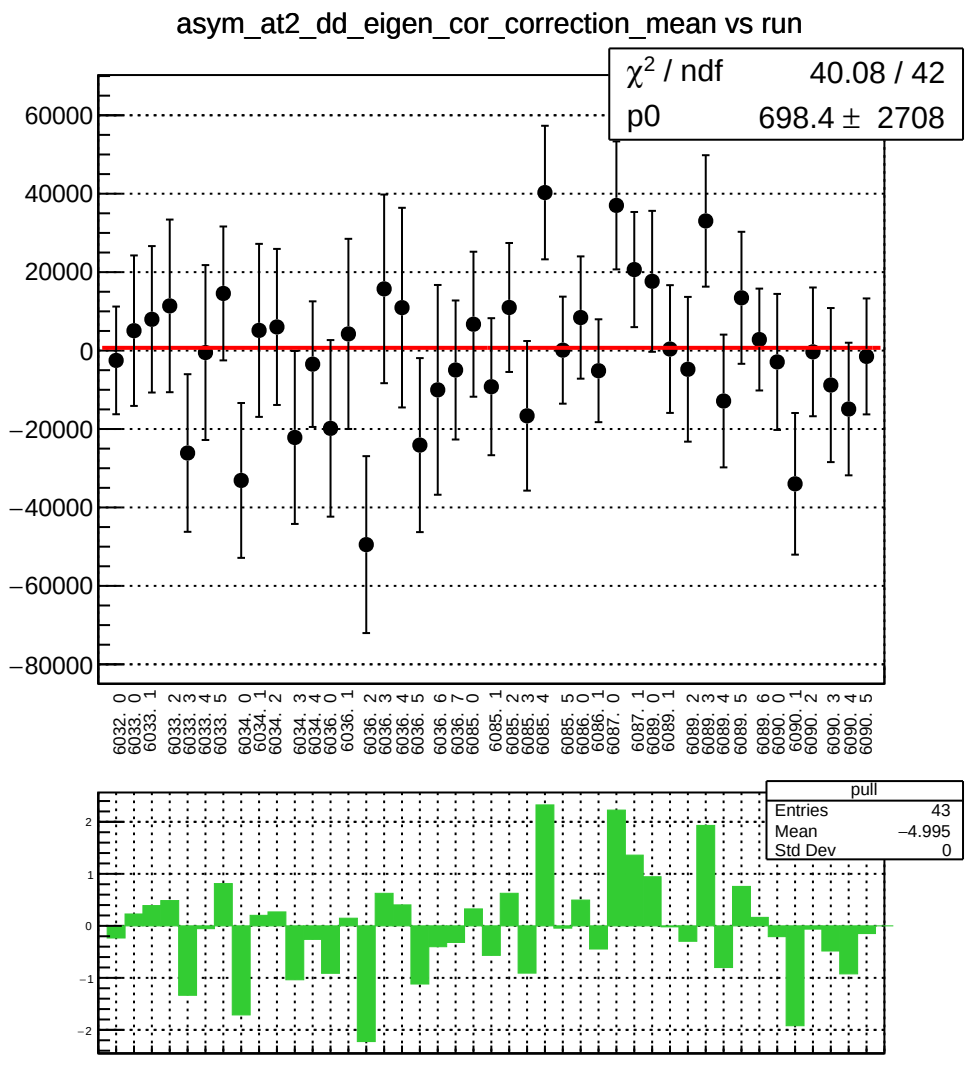

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 40.08 / 42
p0 698.4 ± 2708
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.995
Std Dev 0
2
1
0
−1
−2

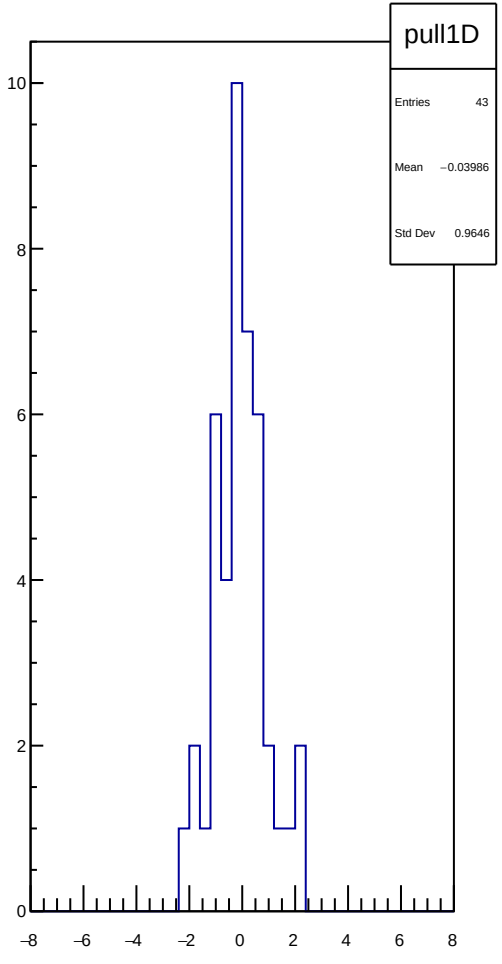

pull1D
Entries 43
Mean −0.03986
Std Dev 0.9646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

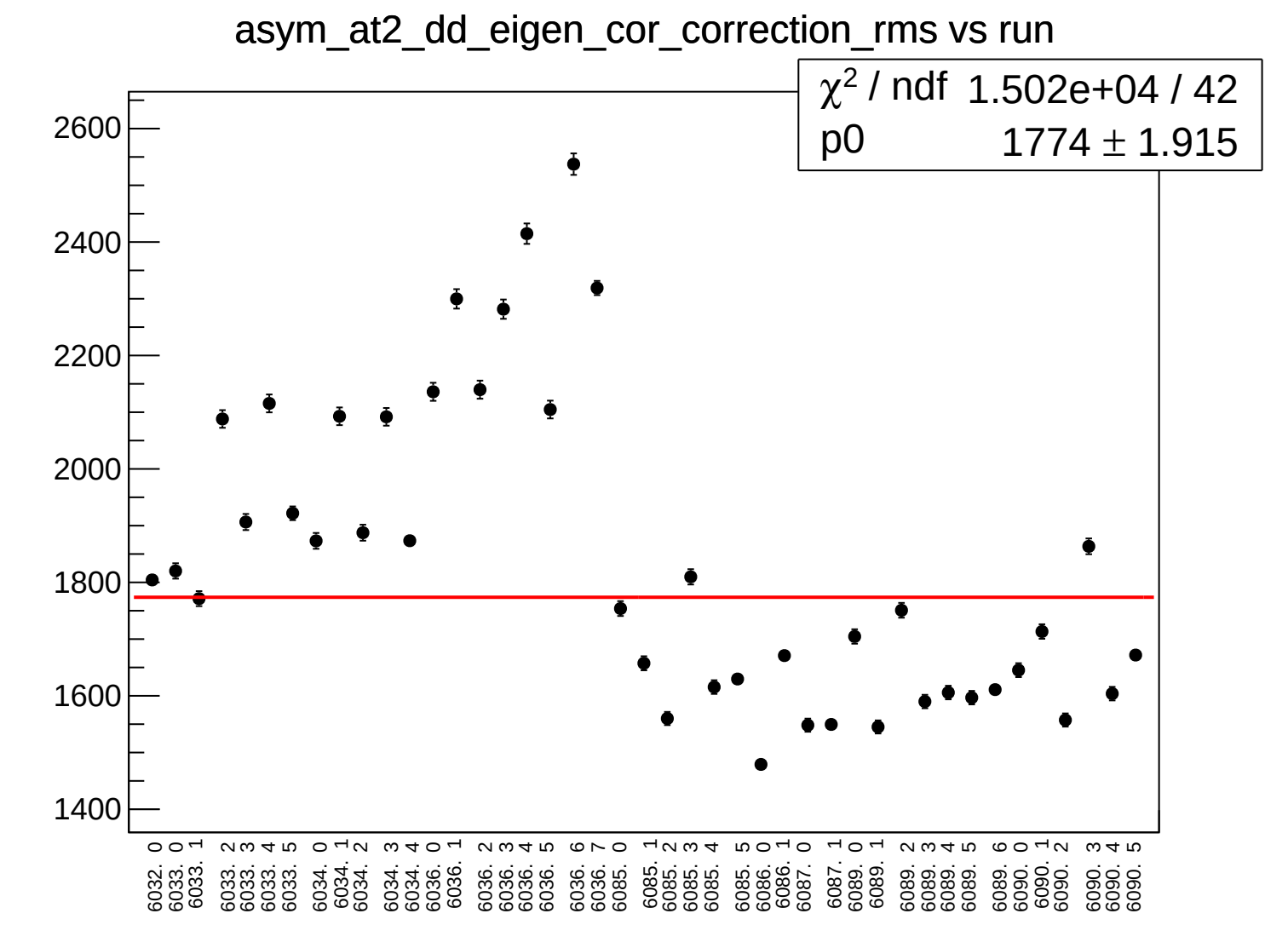

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.502e+04 / 42
p0 1774 ± 1.915
2600
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

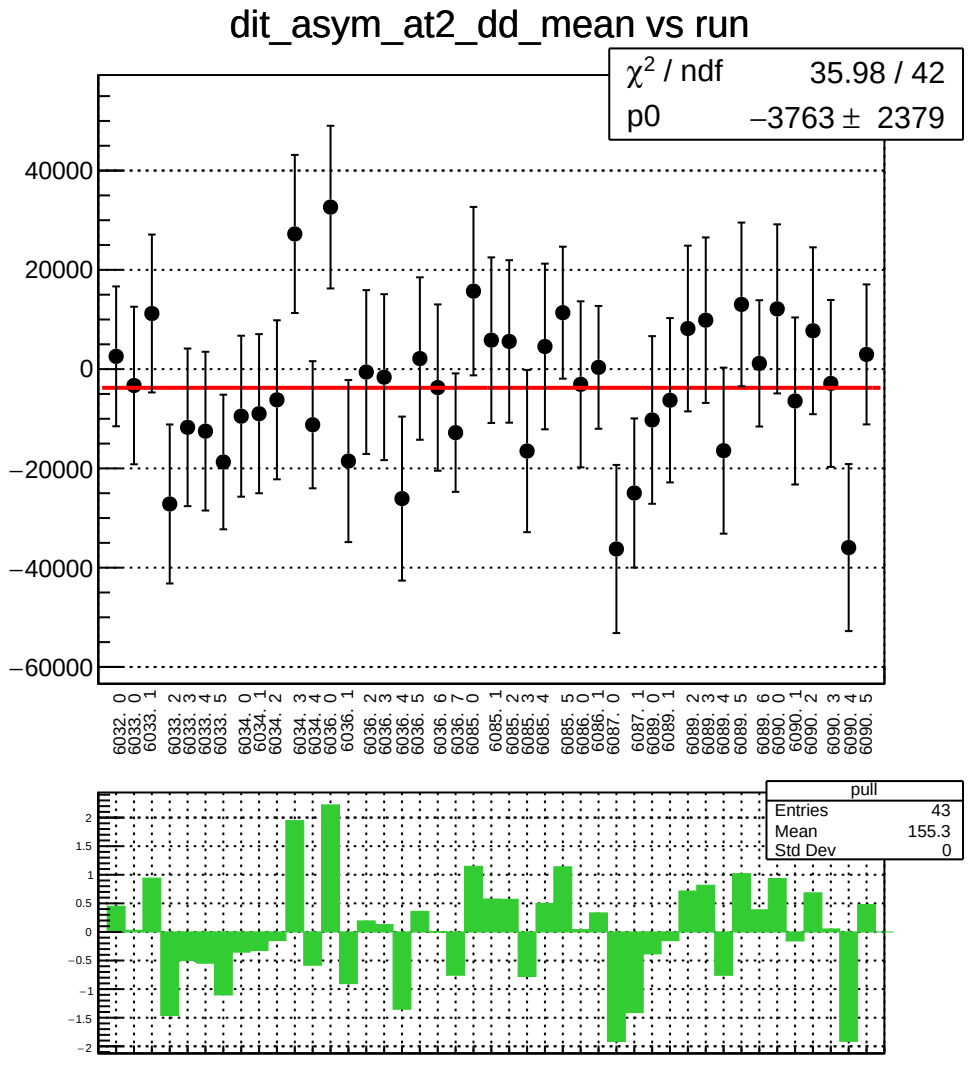

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 35.17 / 42
p0 −3607 ± 2372
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.004039
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

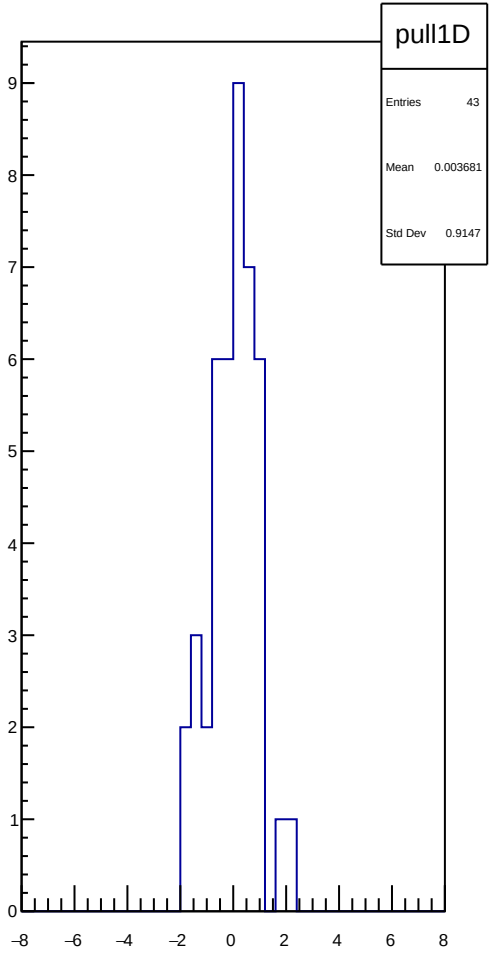

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1201 / 42
p0 1566 ± 1.678
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

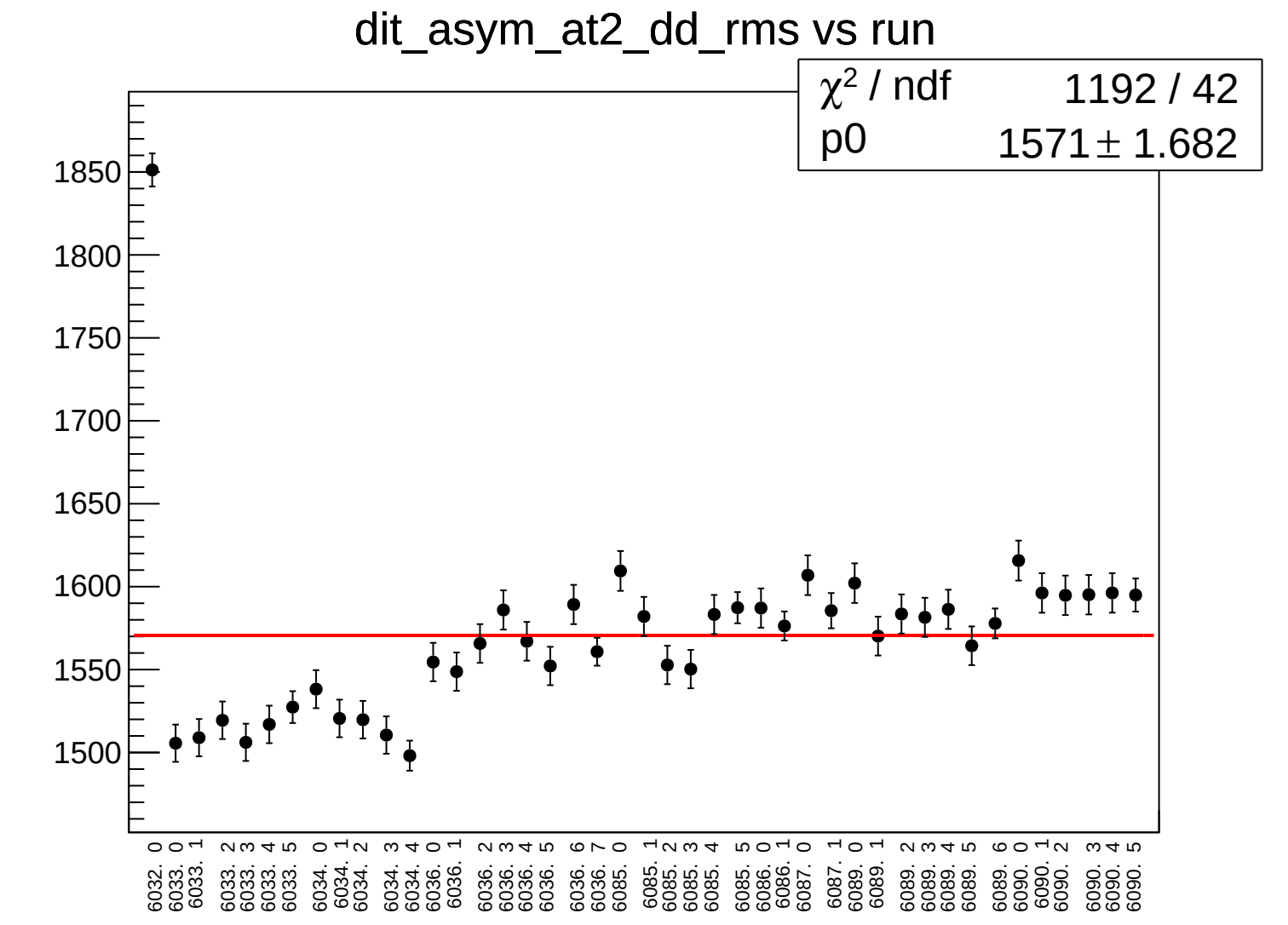

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.08 / 42
p0 698.4 ± 2708
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.995
Std Dev 0
2
1
0
−1
−2

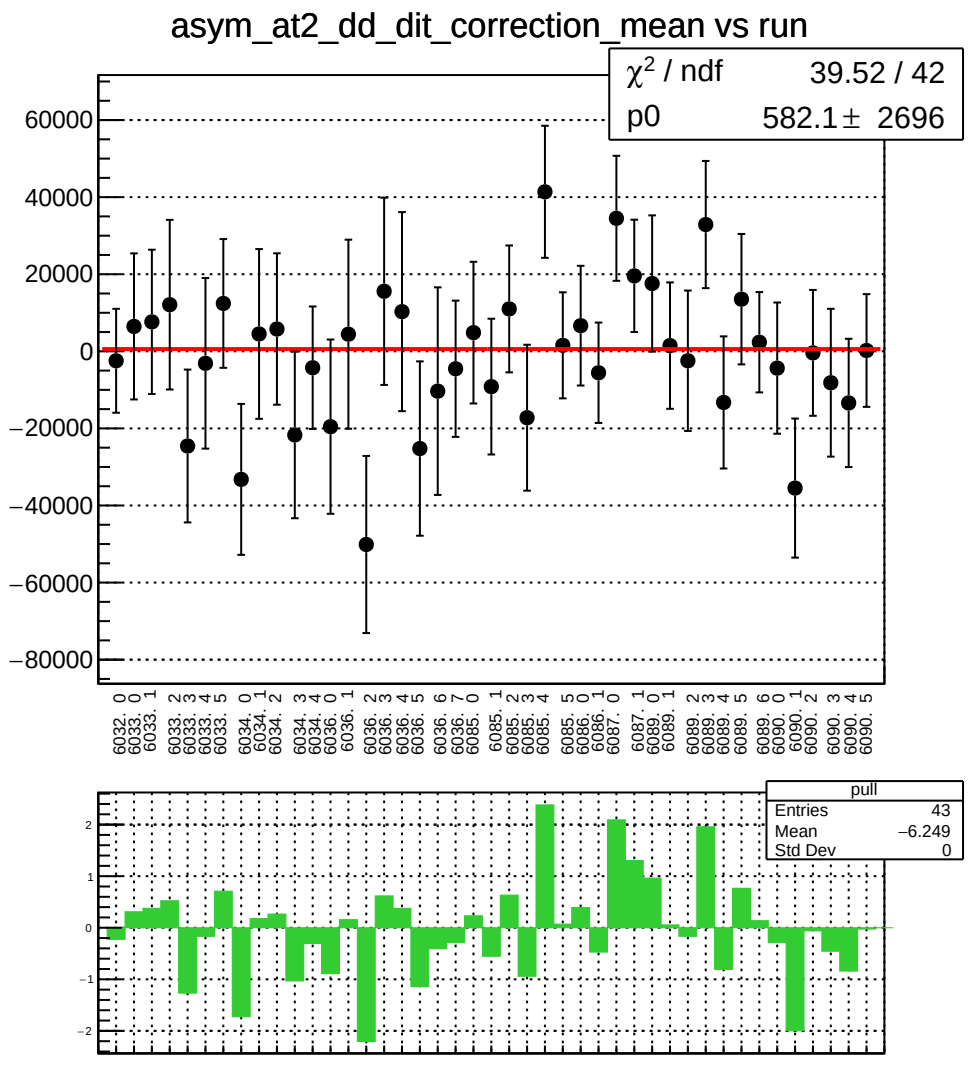

pull1D
Entries 43
Mean −0.03986
Std Dev 0.9646
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

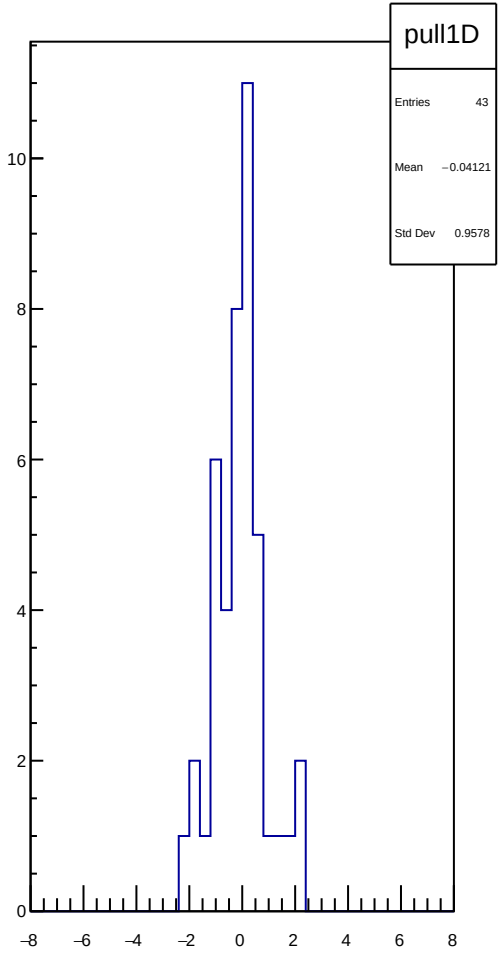

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.502e+04 / 42
p0 1774 ± 1.915
2600
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

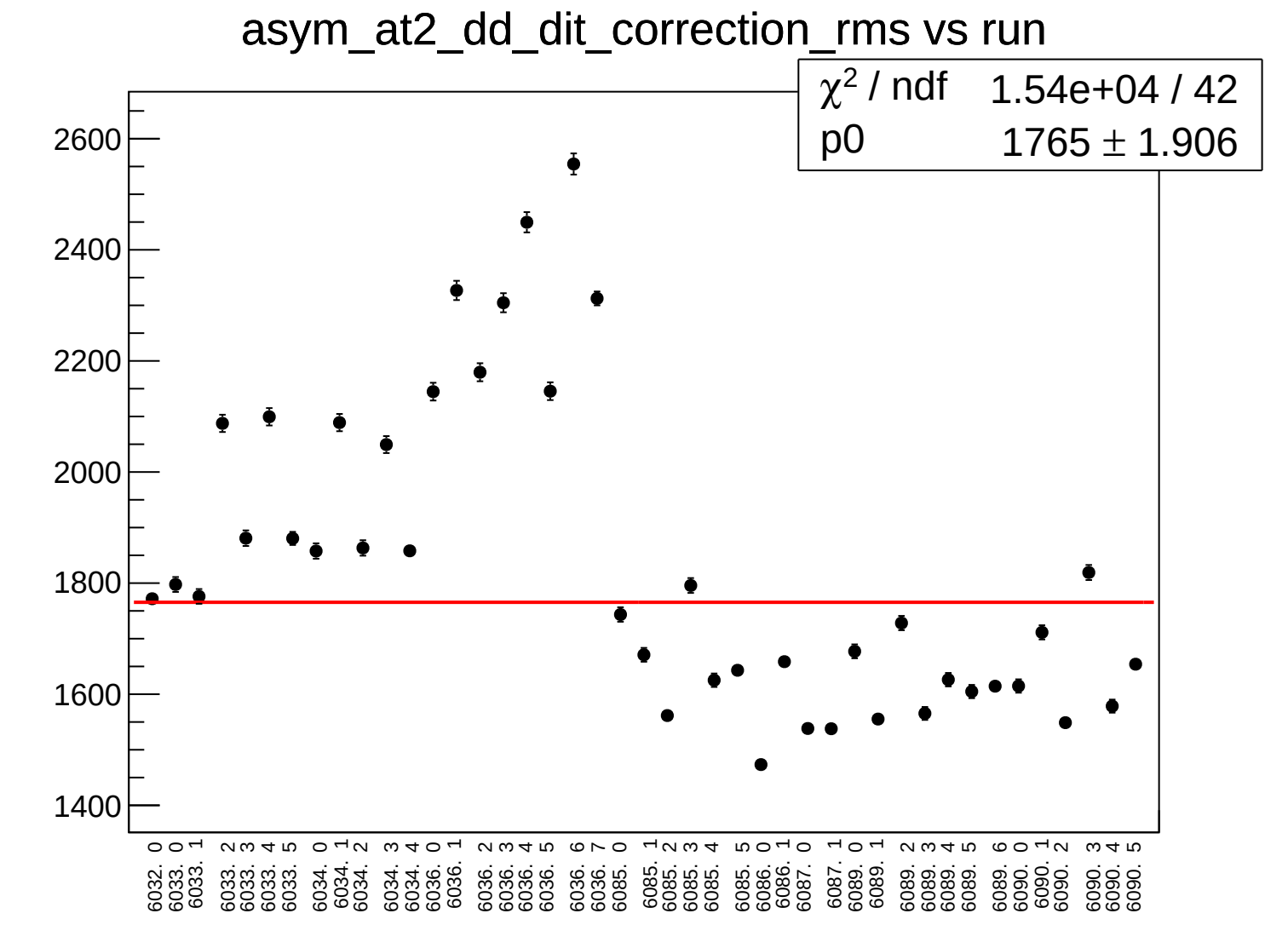

dit_asym_at2_dd_mean vs run
χ² / ndf 35.98 / 42
p0 −3763 ± 2379
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 155.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

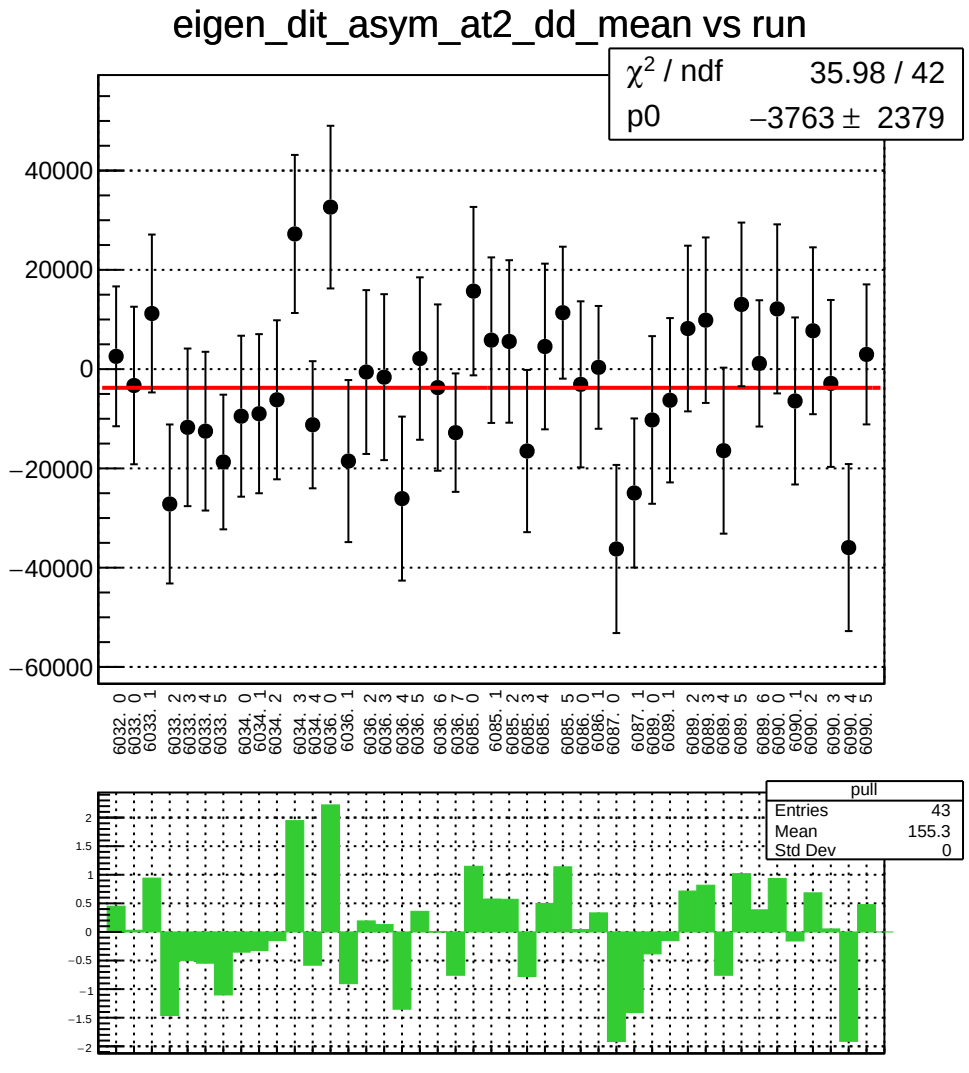

pull1D
Entries 43
Mean 0.003681
Std Dev 0.9147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

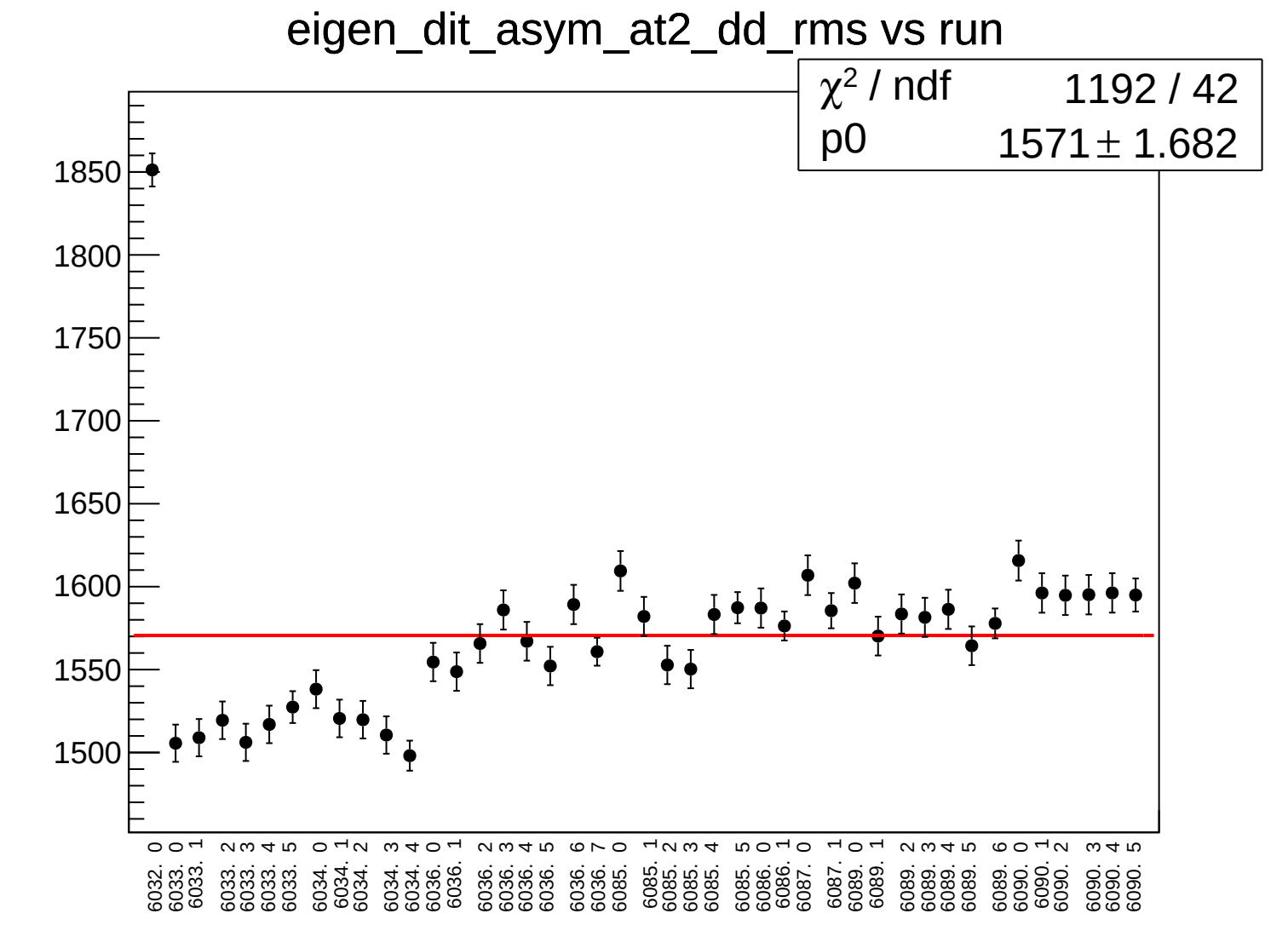

dit_asym_at2_dd_rms vs run
χ² / ndf 1192 / 42
p0 1571 ± 1.682
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

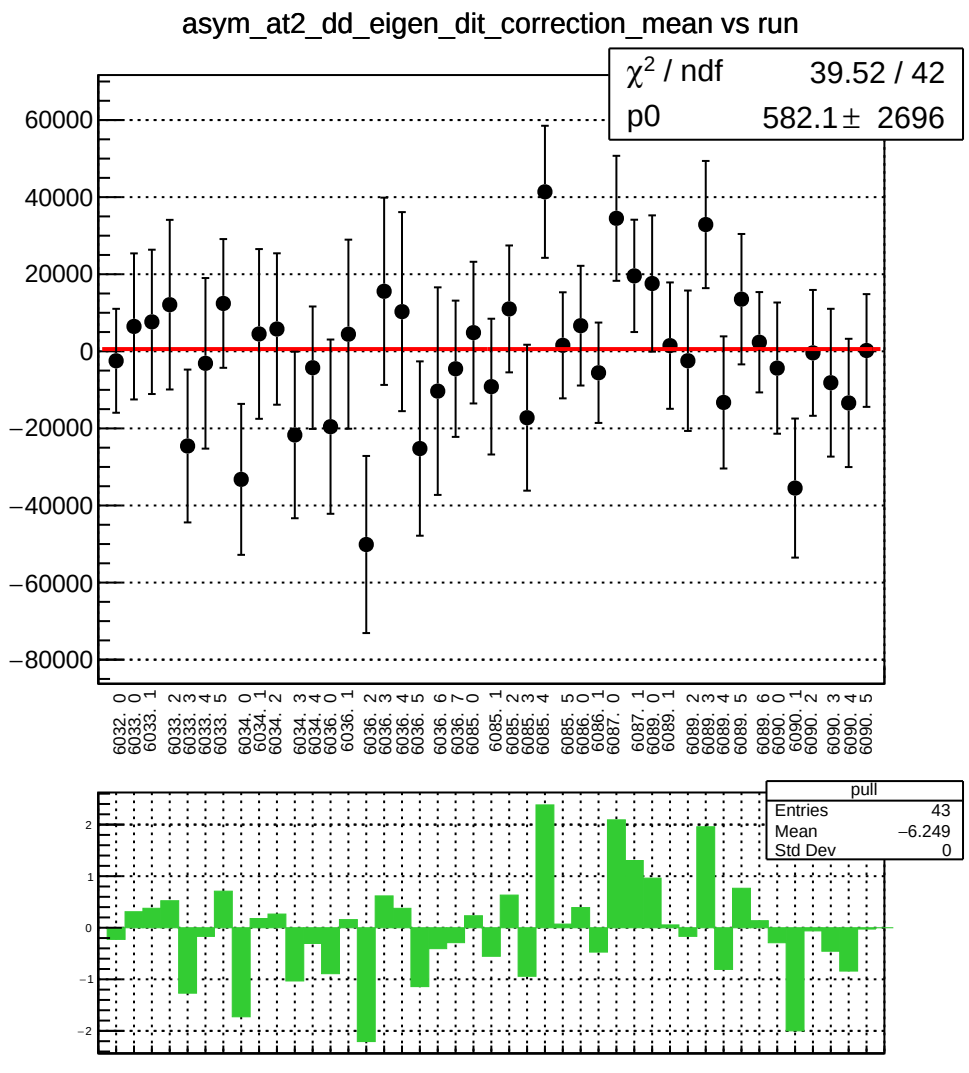

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 39.52 / 42
p0 582.1 ± 2696
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.249
Std Dev 0
2
1
0
−1
−2

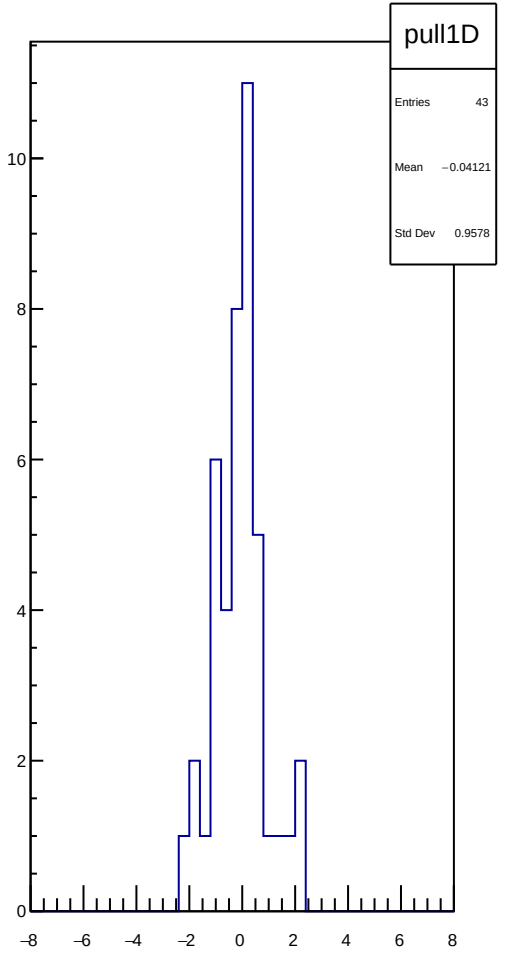

pull1D
Entries 43
Mean −0.04121
Std Dev 0.9578
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

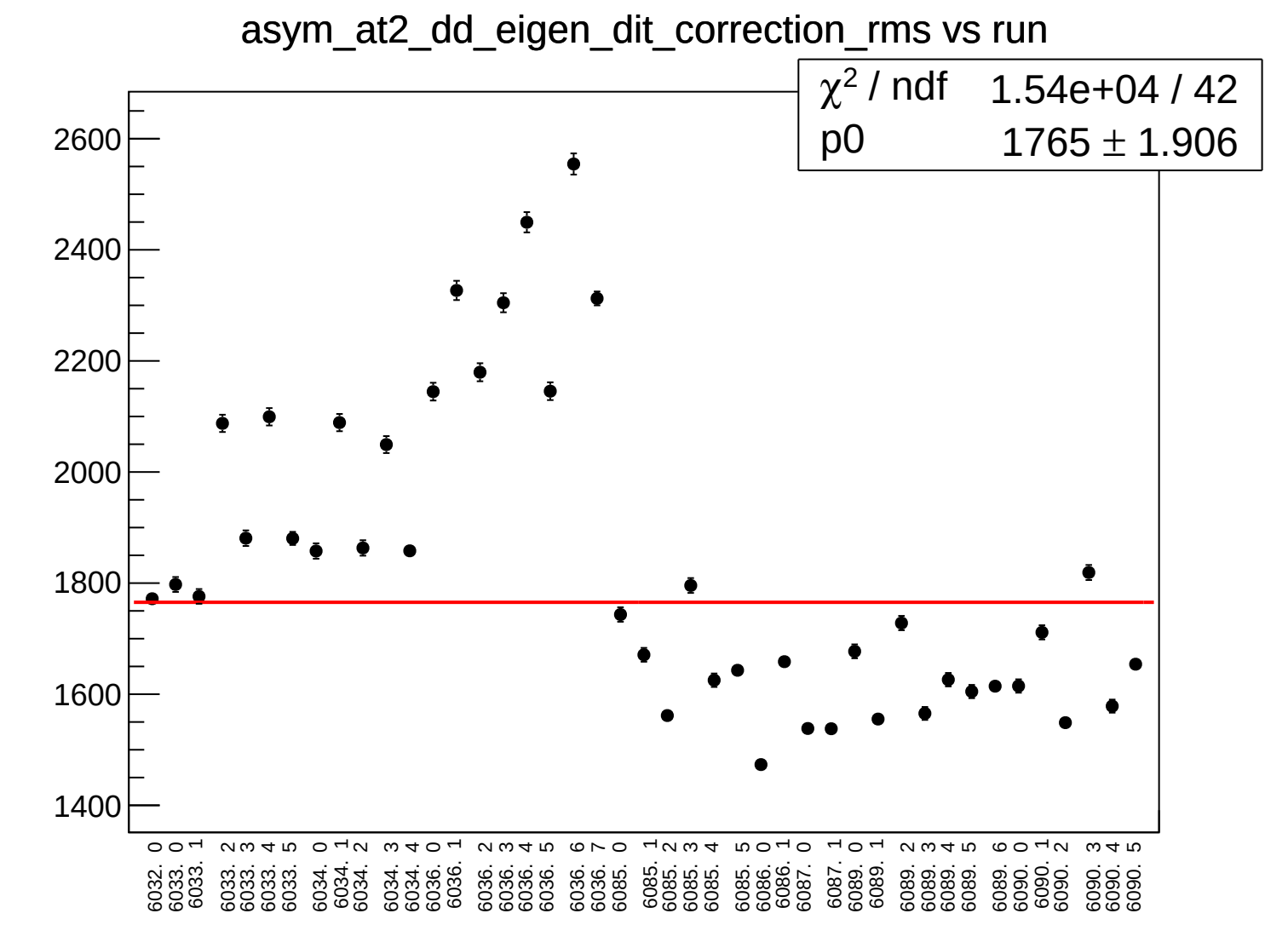

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.54e+04 / 42
p0 1765 ± 1.906
2600
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

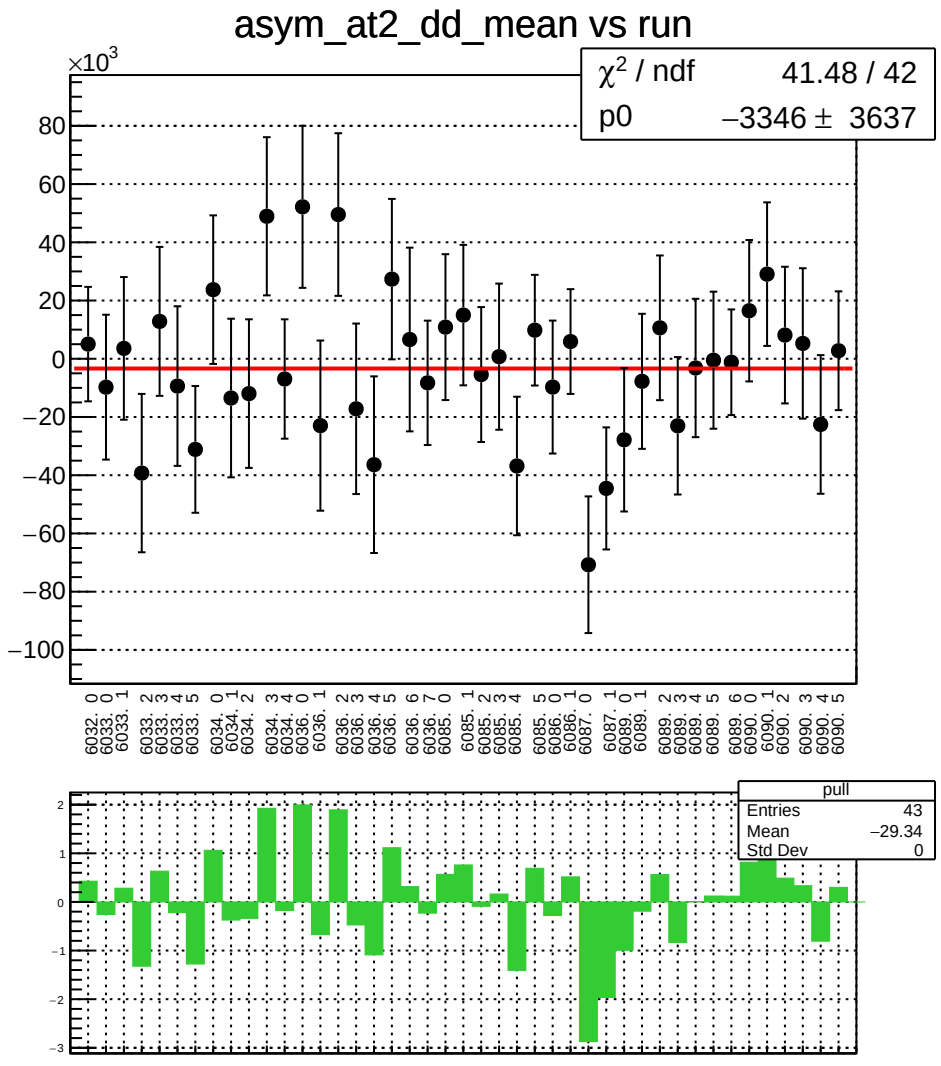

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 35.98 / 42
p0 −3763 ± 2379
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 155.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003681
Std Dev 0.9147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

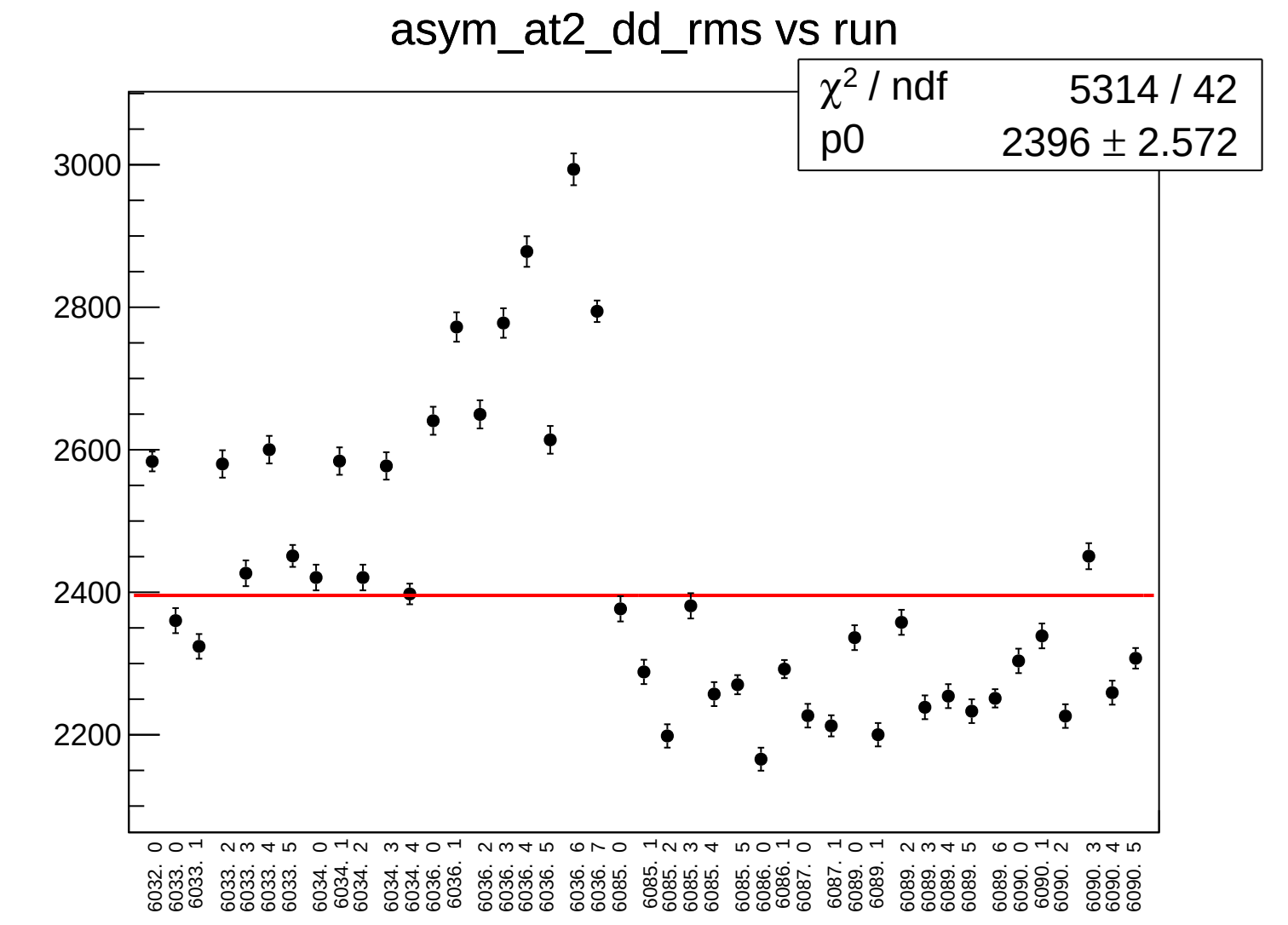

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1192 / 42
p0 1571 ± 1.682
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

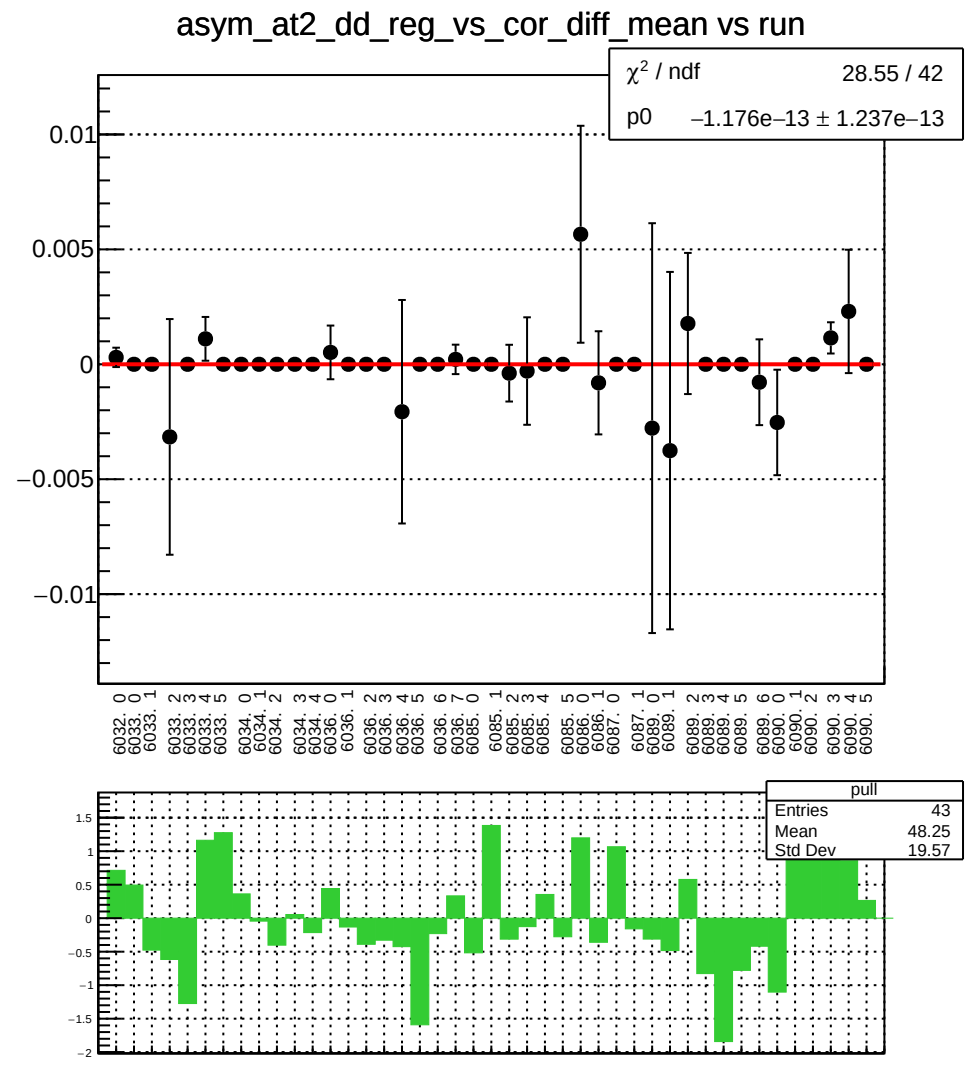

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.52 / 42
p0 582.1 ± 2696
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.249
Std Dev 0
2
1
0
−1
−2

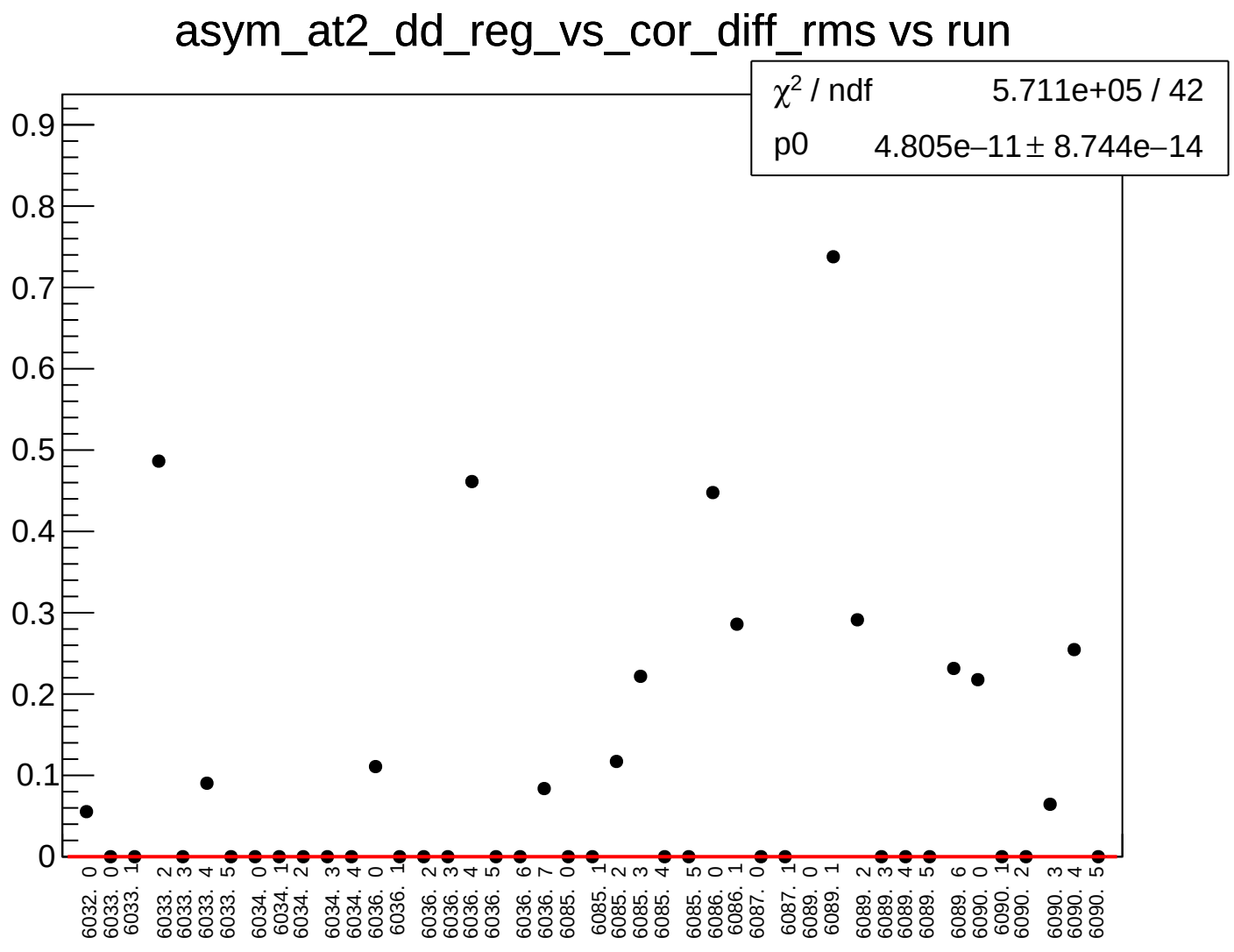

pull1D
Entries 43
Mean −0.04121
Std Dev 0.9578
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

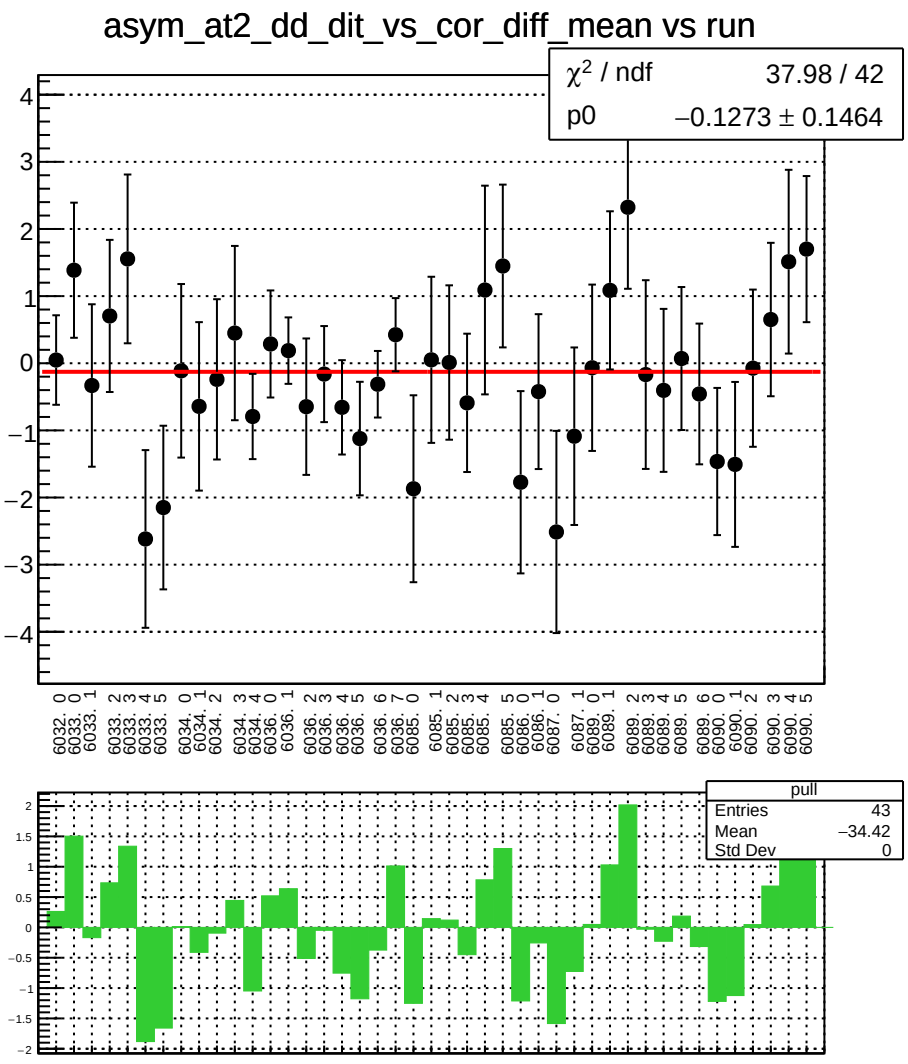

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.54e+04 / 42
p0 1765 ± 1.906
2600
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

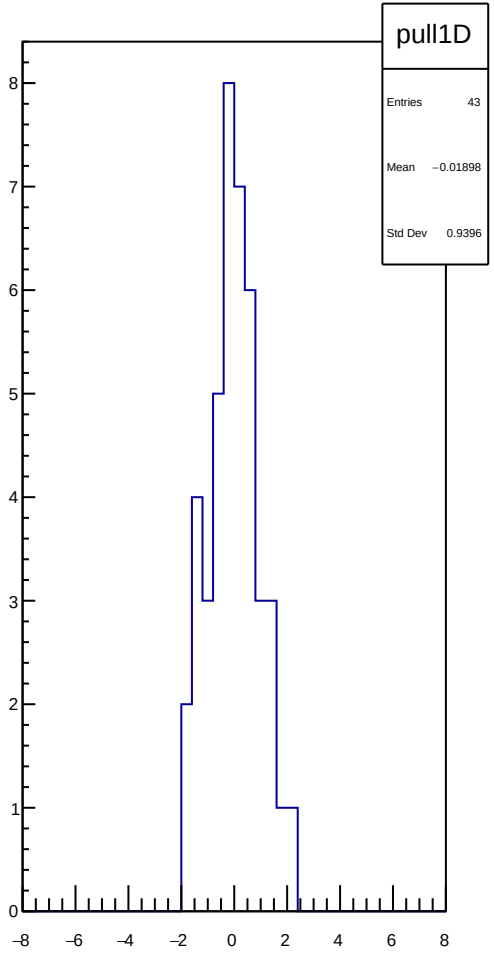

asym_at2_dd_mean vs run
×10^3
χ² / ndf 41.48 / 42
p0 −3346 ± 3637
80
60
40
20
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −29.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01265
Std Dev 0.982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

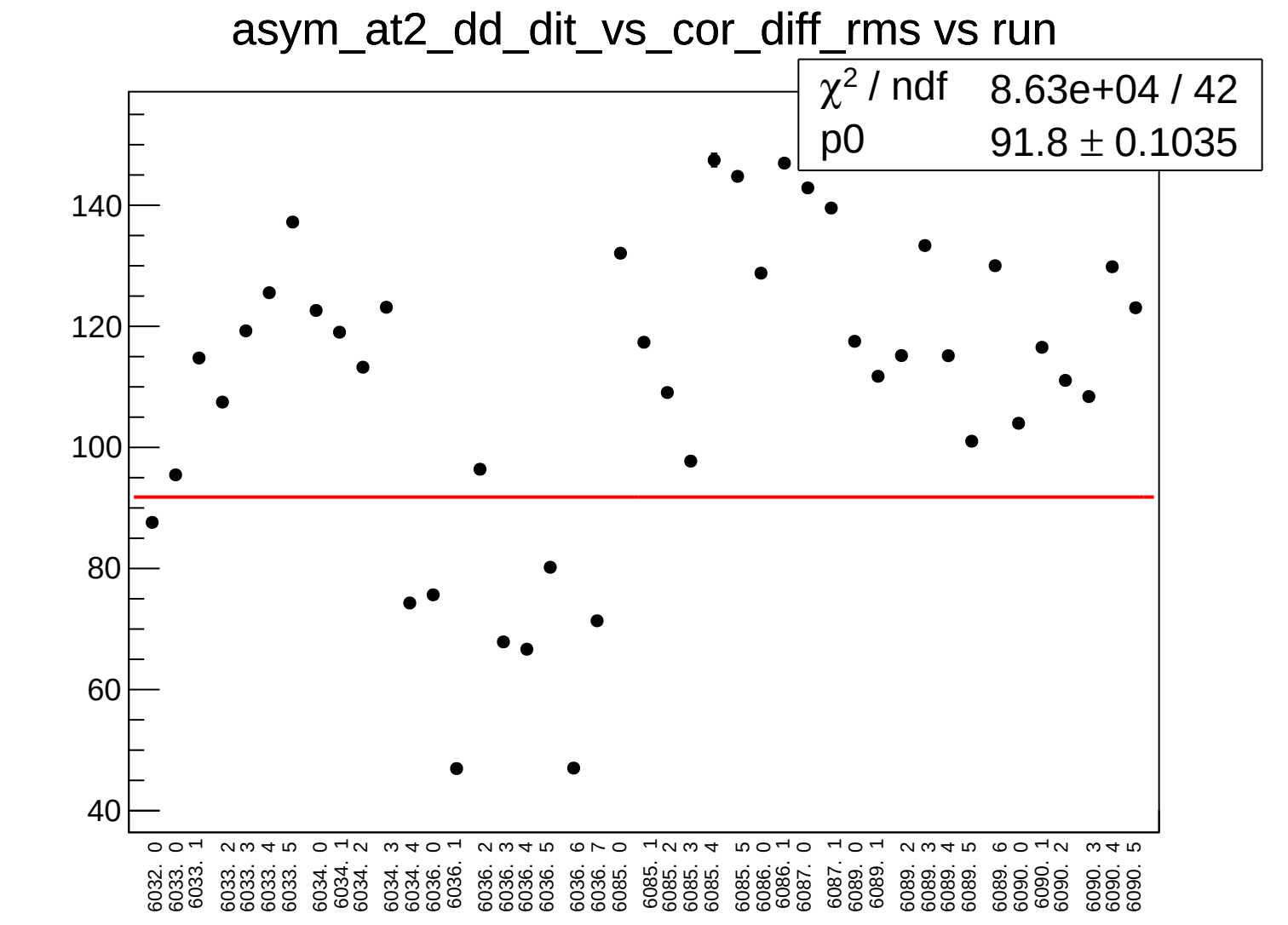

asym_at2_dd_rms vs run
χ² / ndf 5314 / 42
p0 2396 ± 2.572
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

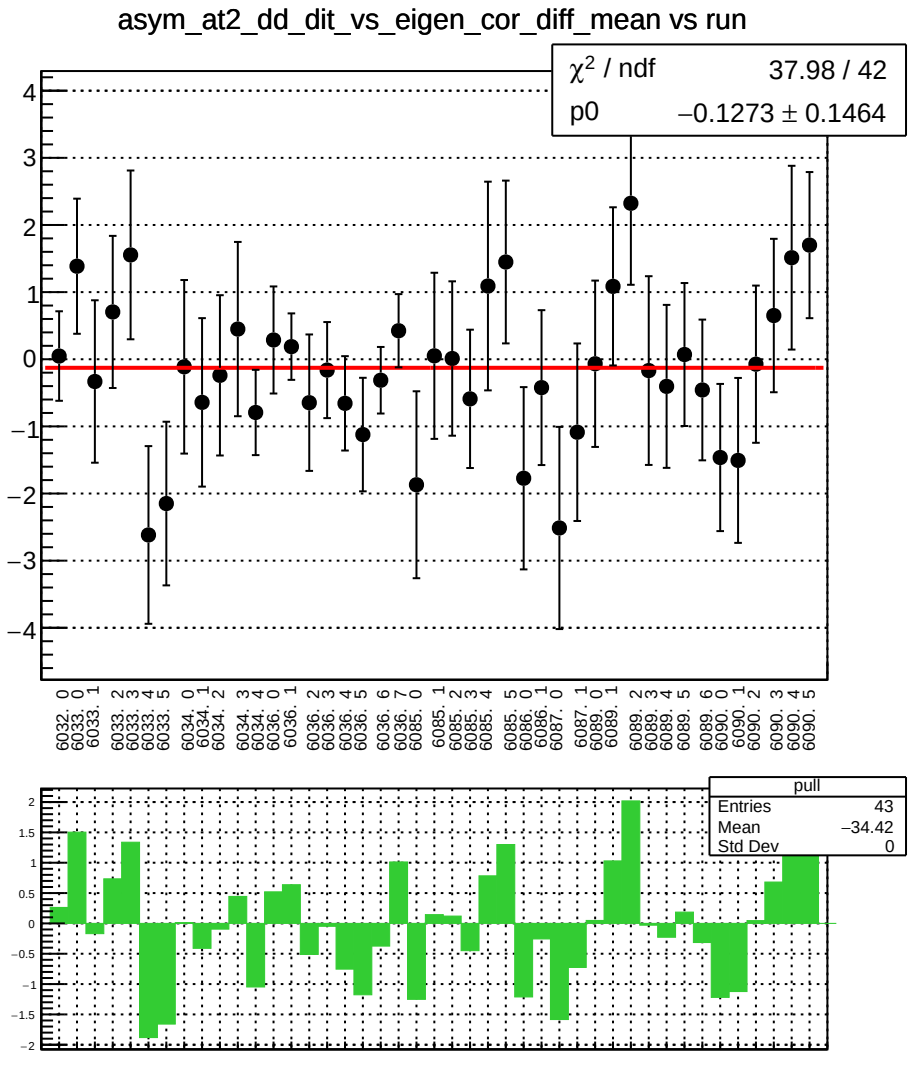

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.55 / 42
p0 −1.176e−13 ± 1.237e−13
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 48.25
Std Dev 19.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02629
Std Dev 0.8144
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

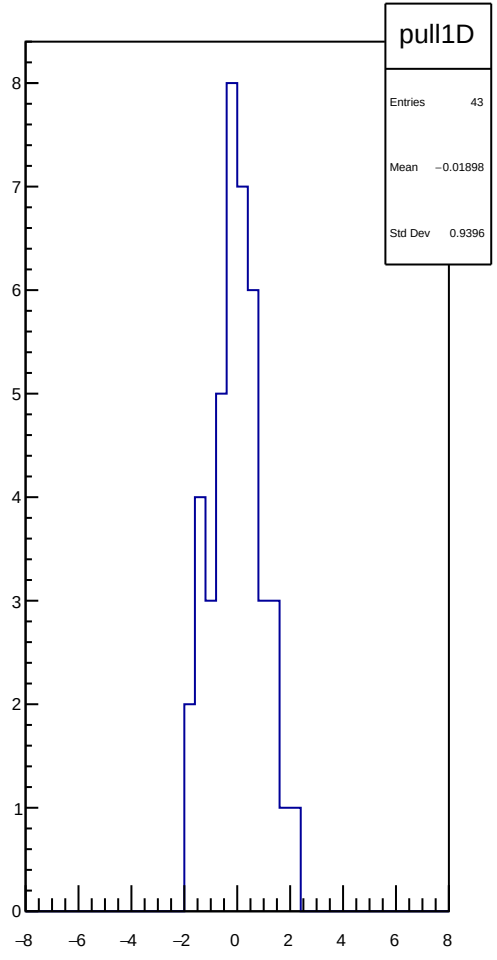

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.711e+05 / 42
p0 4.805e−11 ± 8.744e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

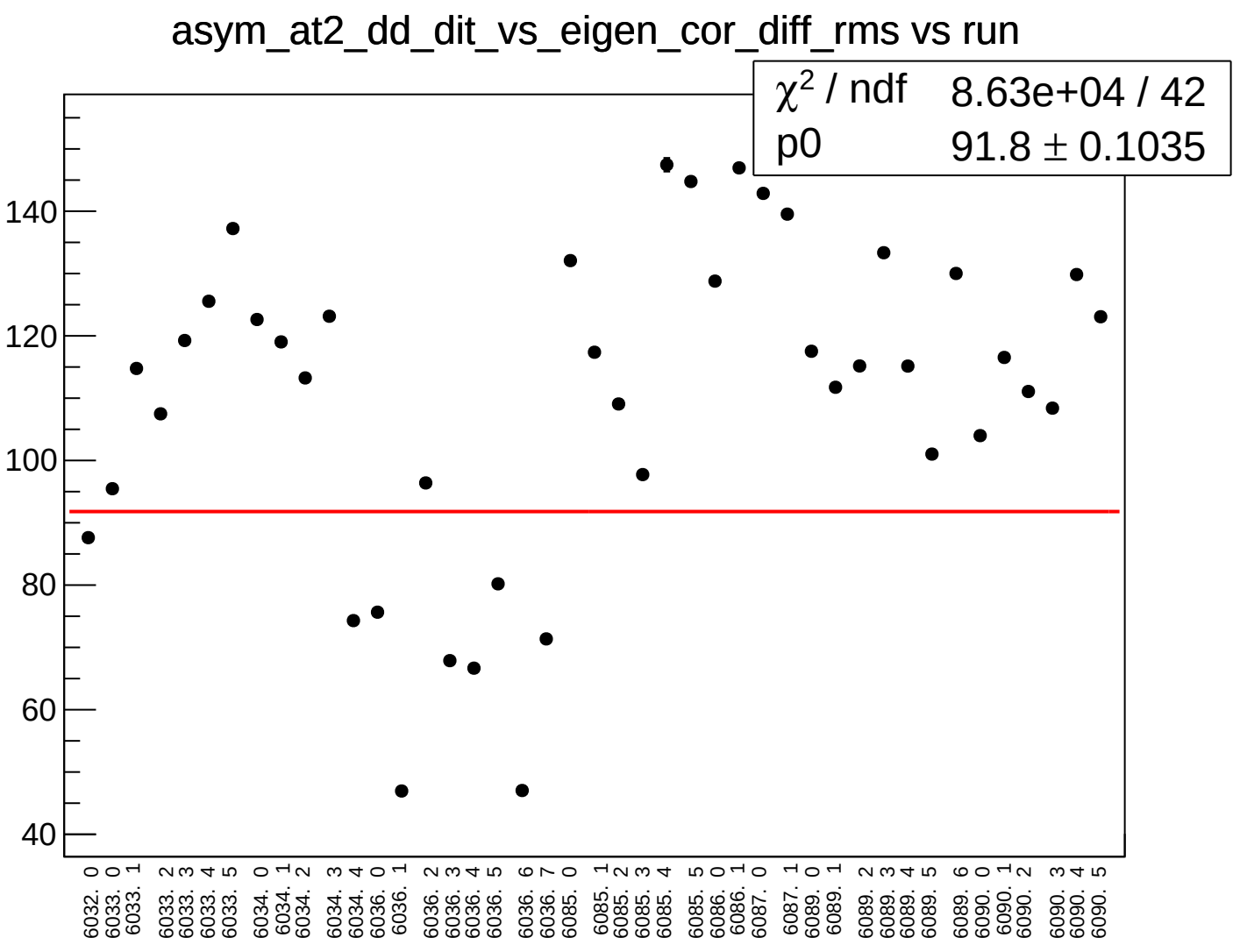

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.98 / 42
p0 −0.1273 ± 0.1464
pull
Entries 43
Mean −34.42
Std Dev 0

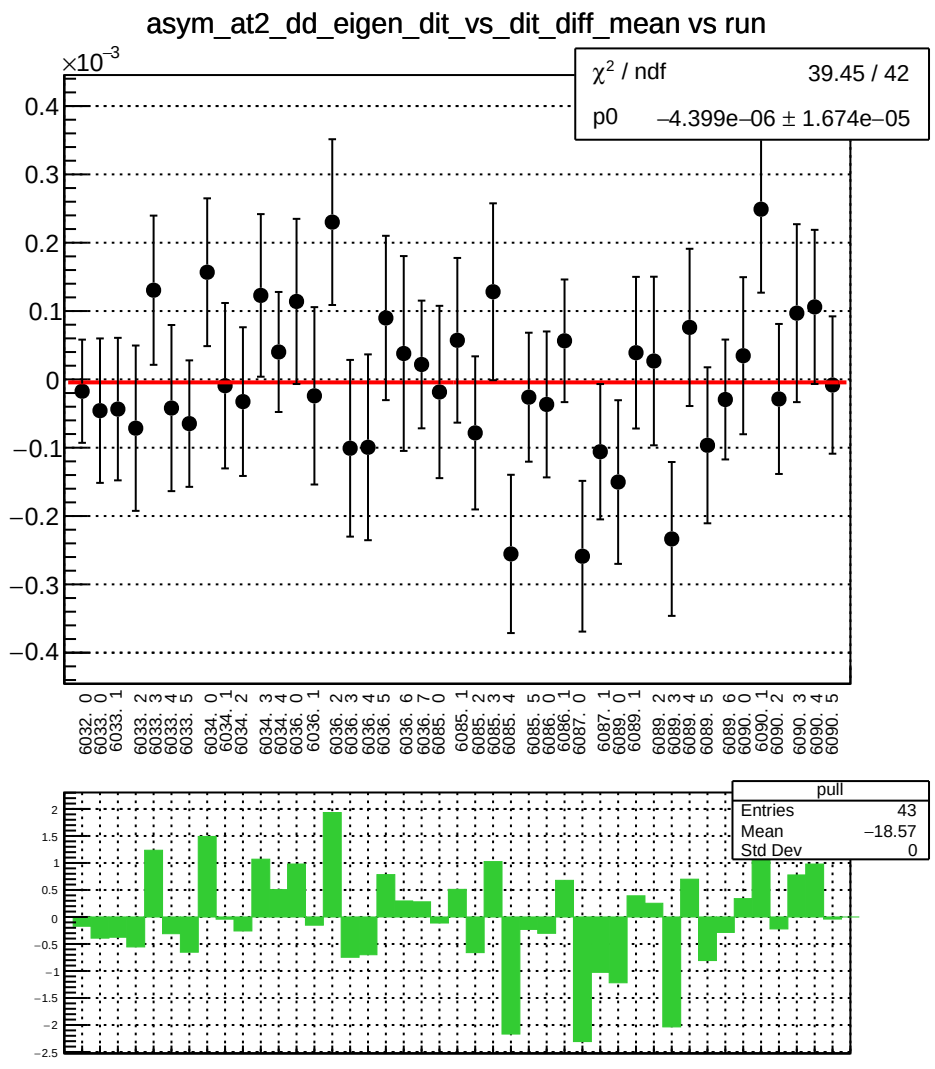

pull1D
Entries 43
Mean −0.01898
Std Dev 0.9396

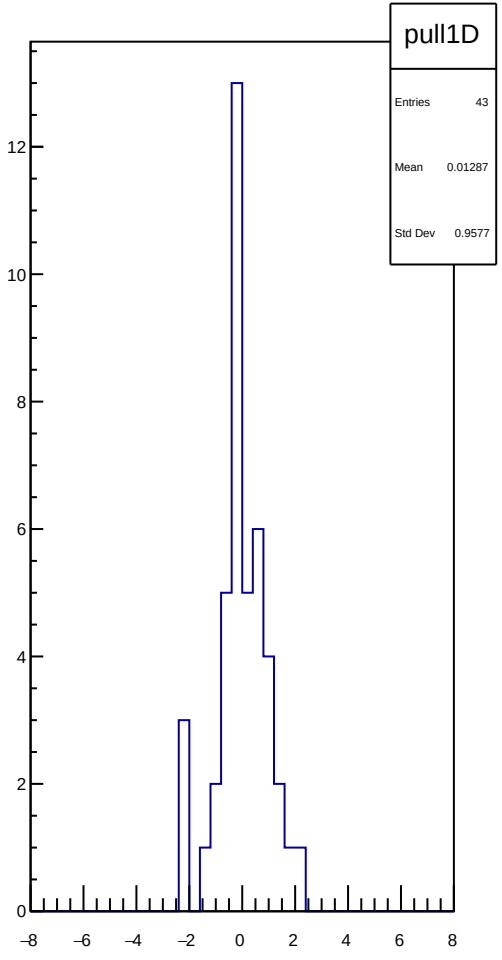

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.63e+04 / 42
p0 91.8 ± 0.1035
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

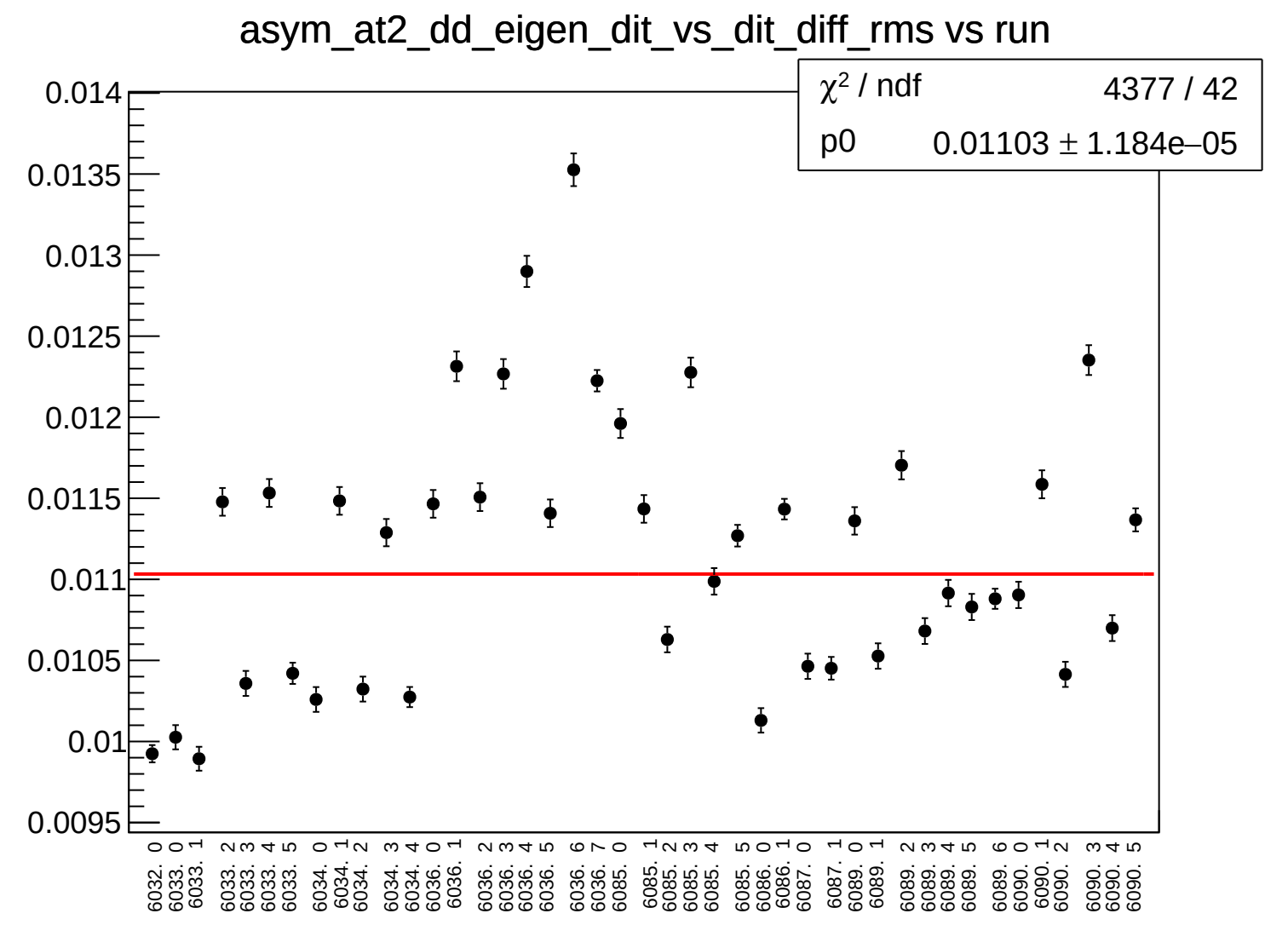

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.98 / 42
p0 −0.1273 ± 0.1464
pull
Entries 43
Mean −34.42
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

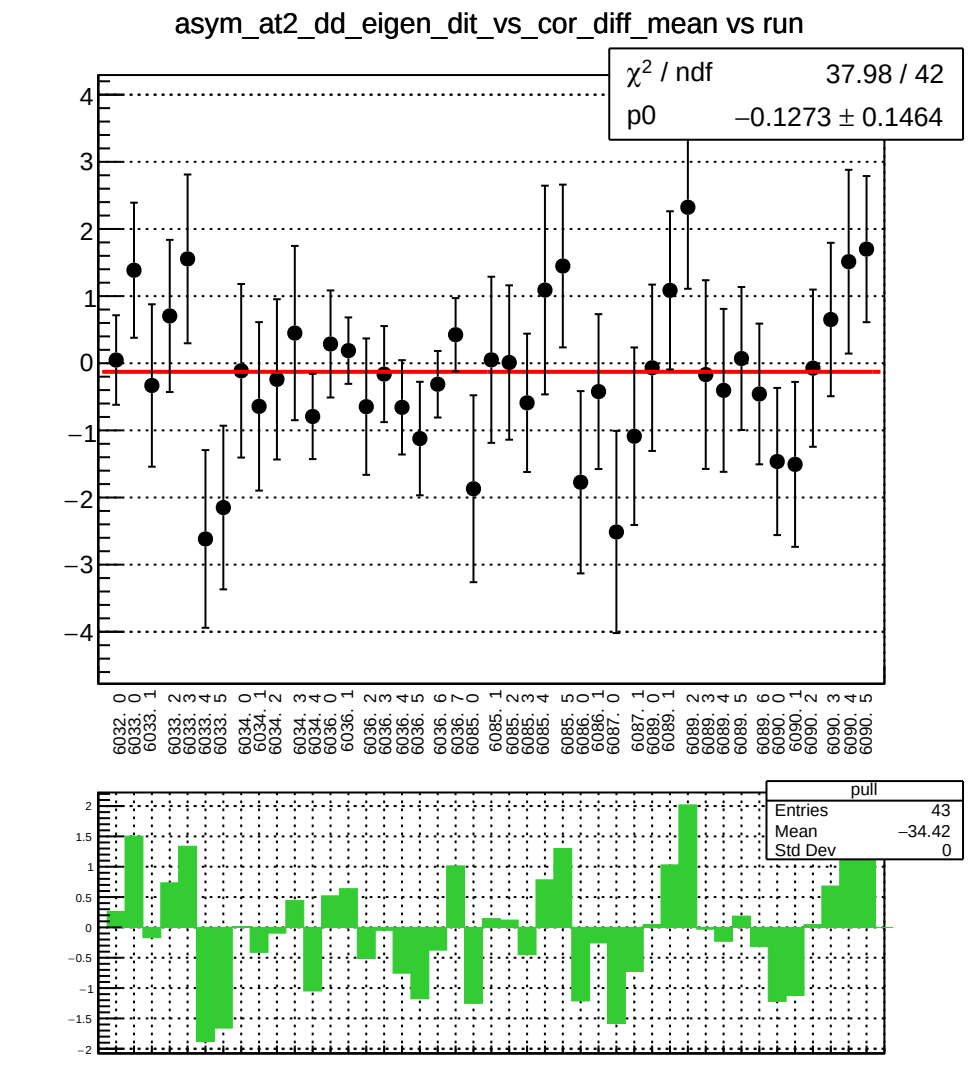

pull1D
Entries 43
Mean −0.01898
Std Dev 0.9396

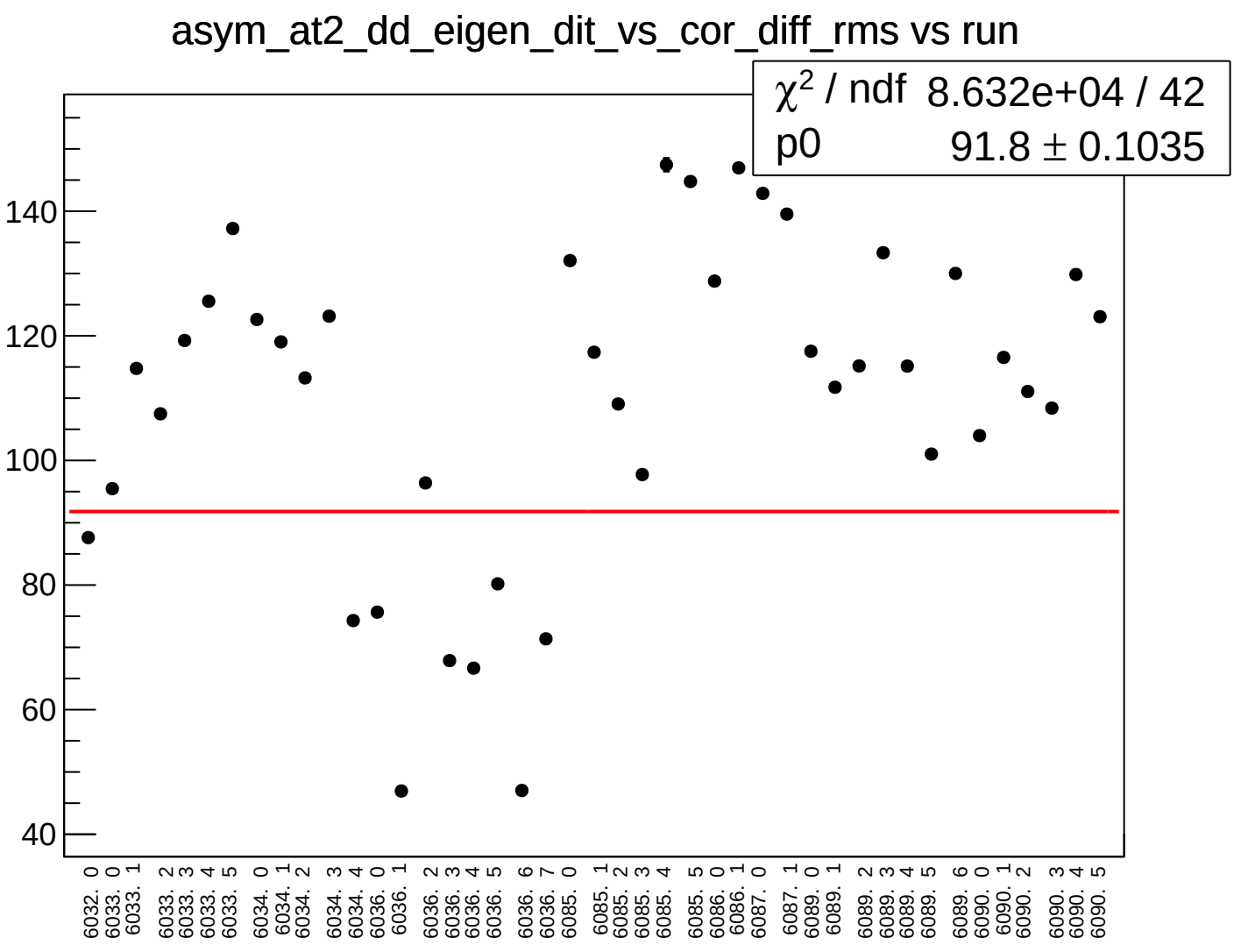

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.63e+04 / 42
p0 91.8 ± 0.1035
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

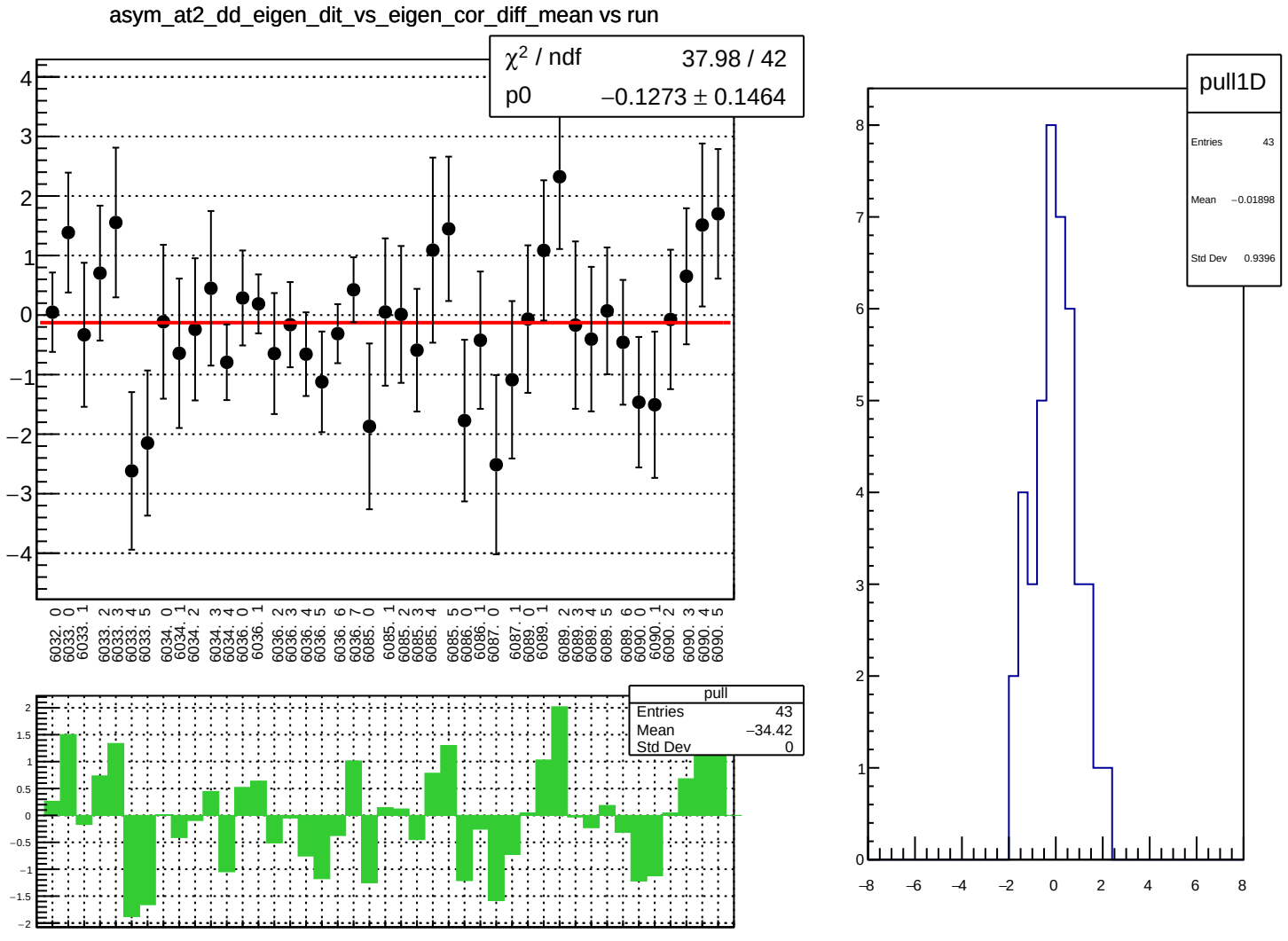

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.45 / 42
p0 −4.399e−06 ± 1.674e−05
pull
Entries 43
Mean −18.57
Std Dev 0

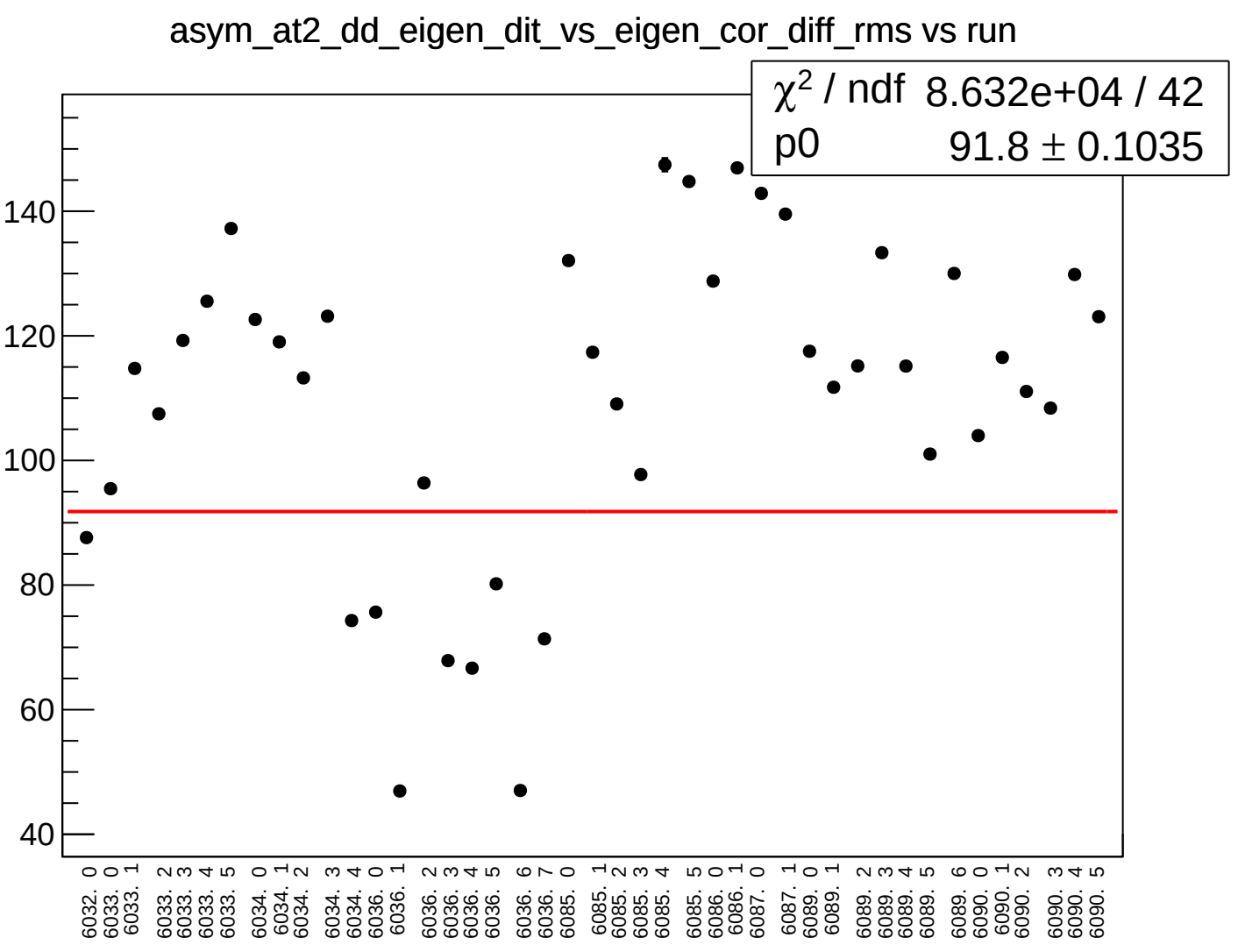

pull1D
Entries 43
Mean 0.01287
Std Dev 0.9577

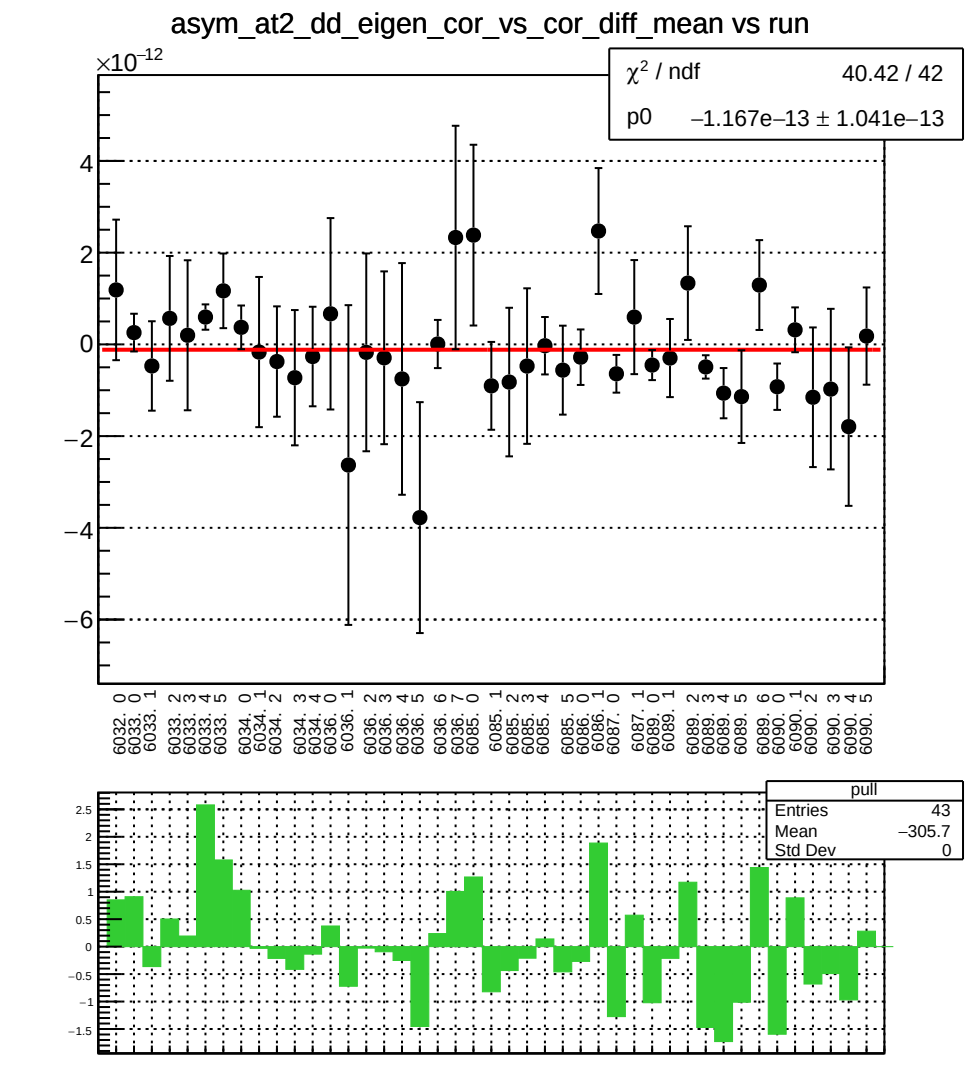

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4377 / 42
p0 0.01103 ± 1.184e−05
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

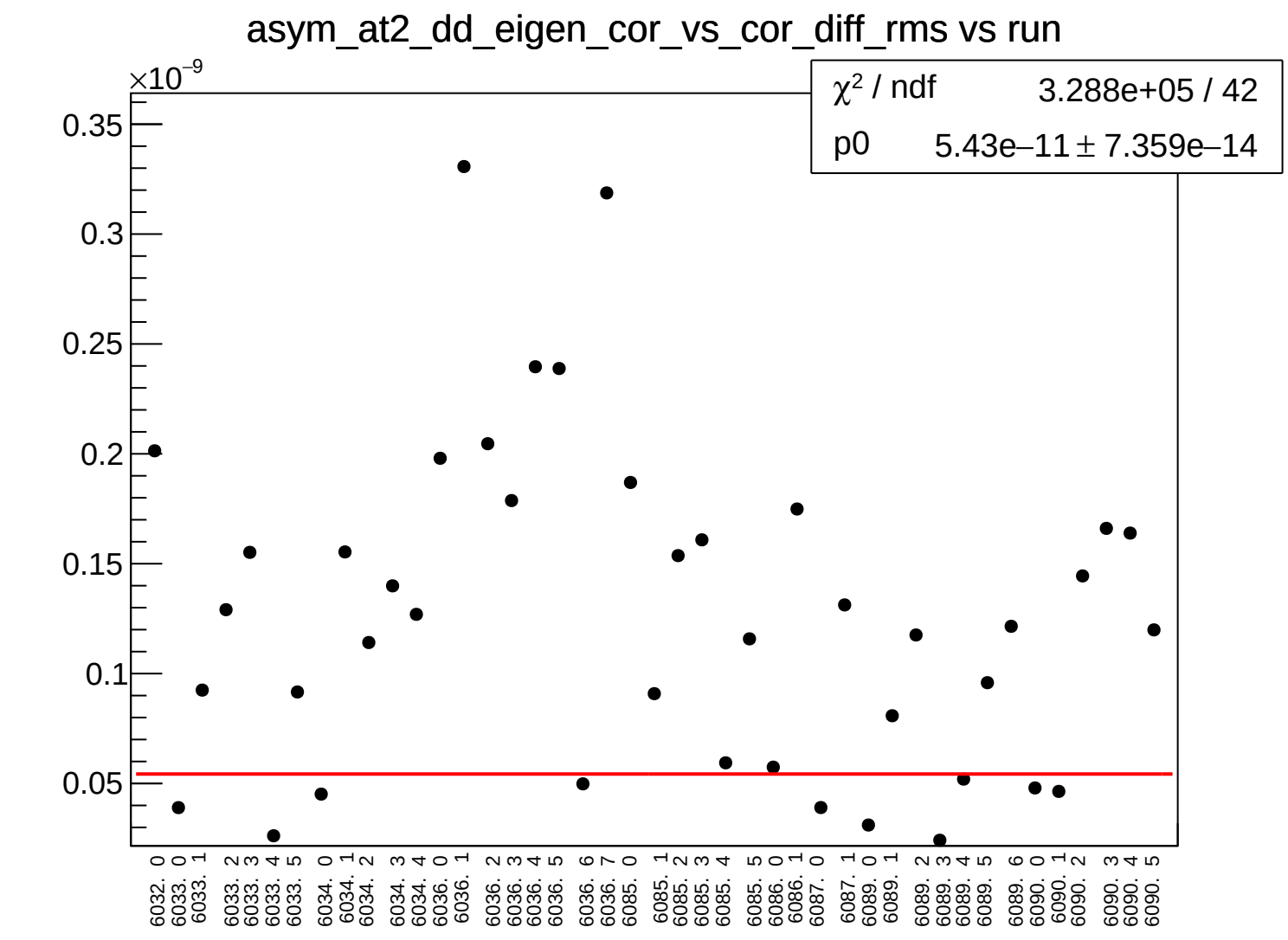

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.98 / 42
p0 −0.1273 ± 0.1464
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −34.42
Std Dev 0
pull1D
Entries 43
Mean −0.01898
Std Dev 0.9396

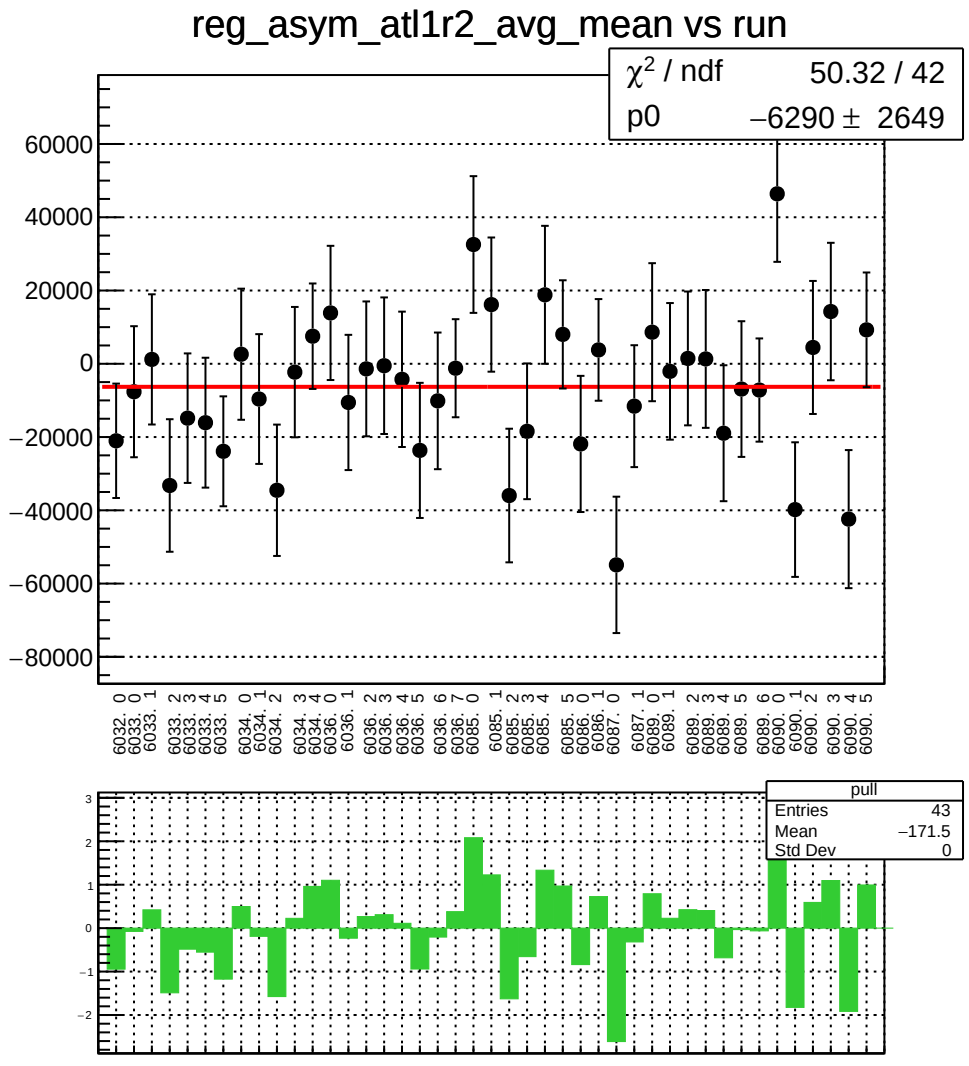

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.632e+04 / 42
p0 91.8 ± 0.1035
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

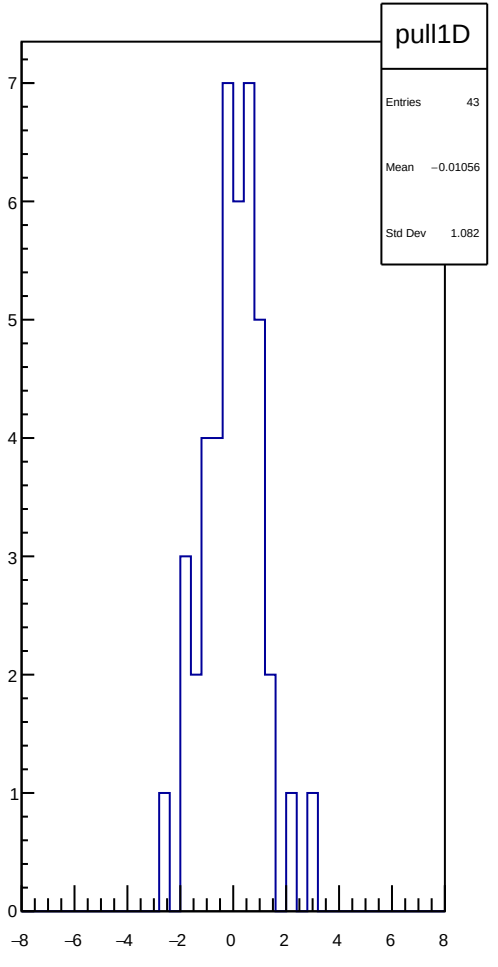

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.98 / 42
p0 −0.1273 ± 0.1464
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −34.42
Std Dev 0
pull1D
Entries 43
Mean −0.01898
Std Dev 0.9396

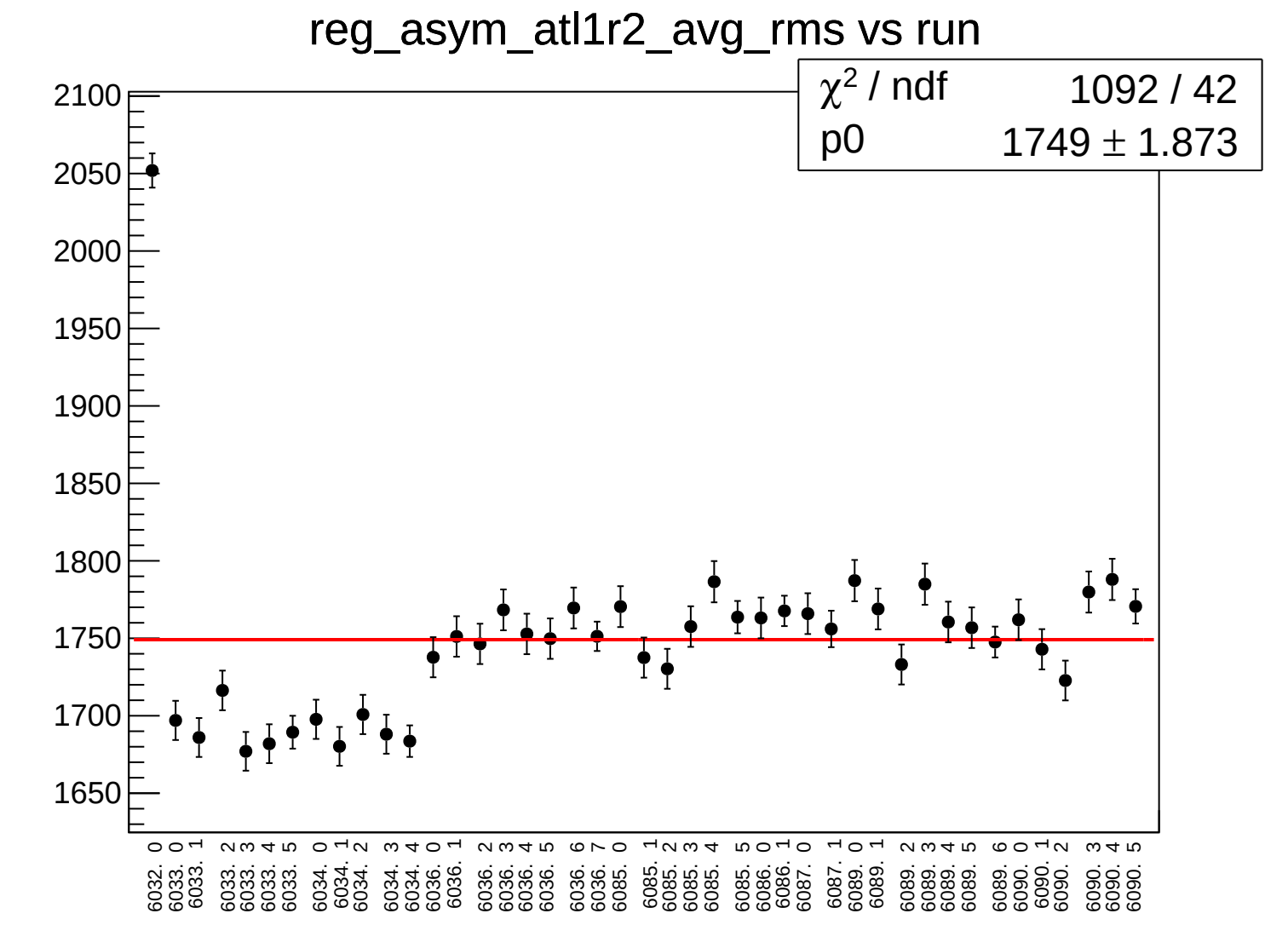

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.632e+04 / 42
p0 91.8 ± 0.1035
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

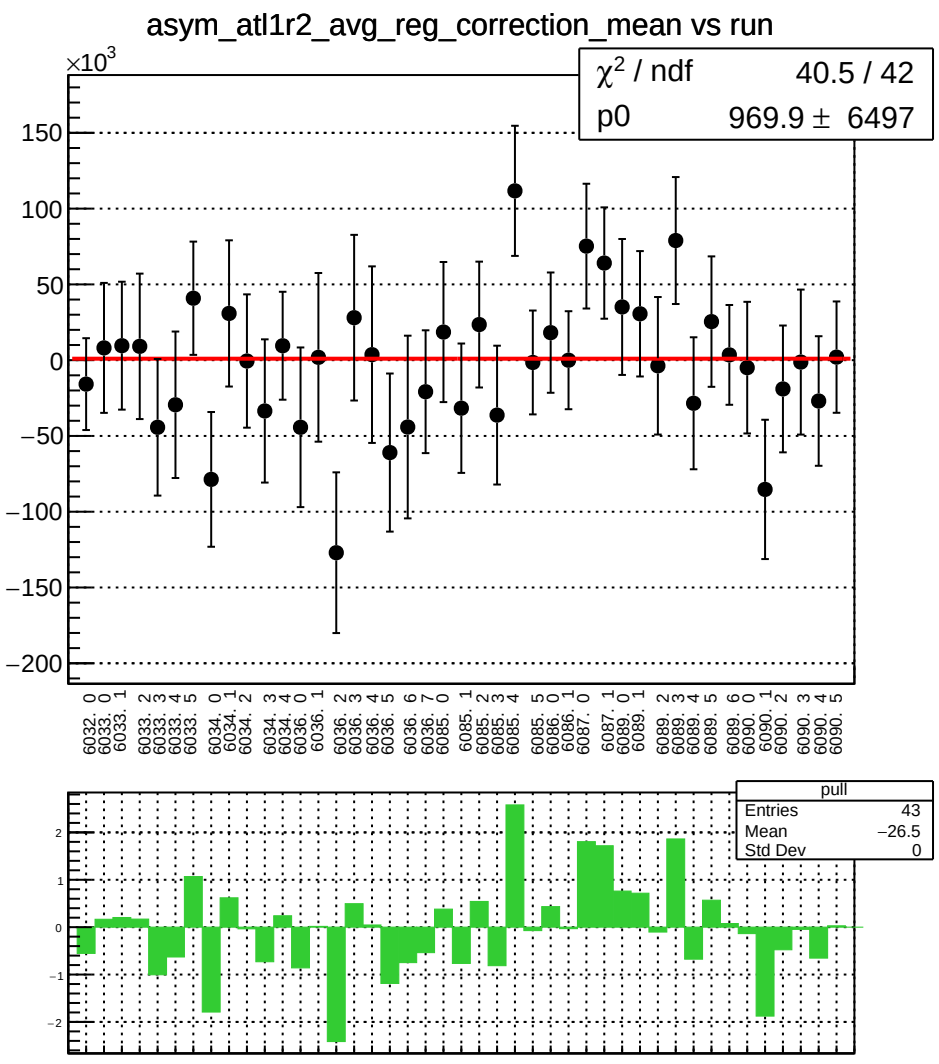

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 40.42 / 42
p0 −1.167e−13 ± 1.041e−13
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −305.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01272
Std Dev 0.9694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

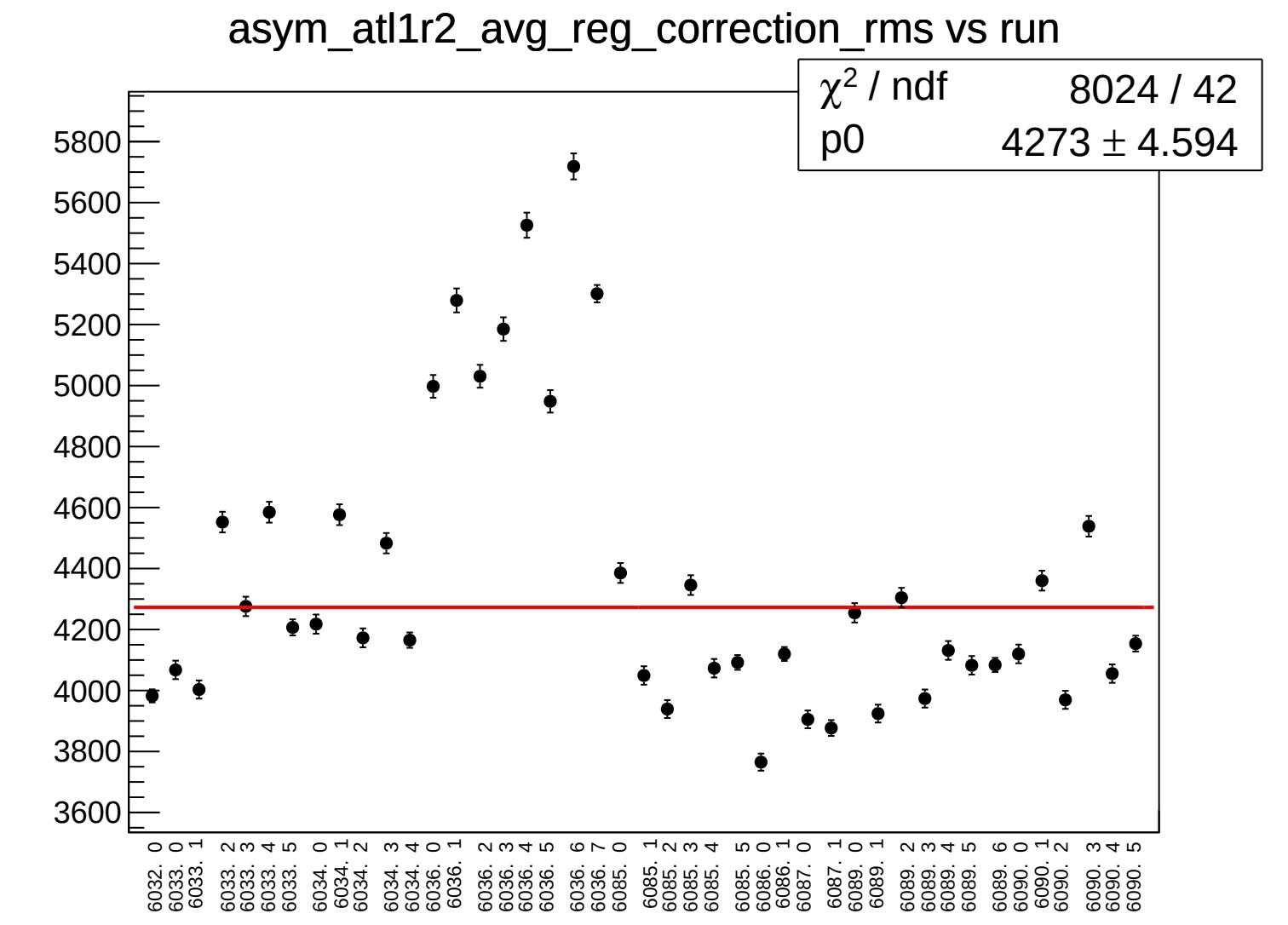

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.288e+05 / 42
p0 5.43e−11 ± 7.359e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

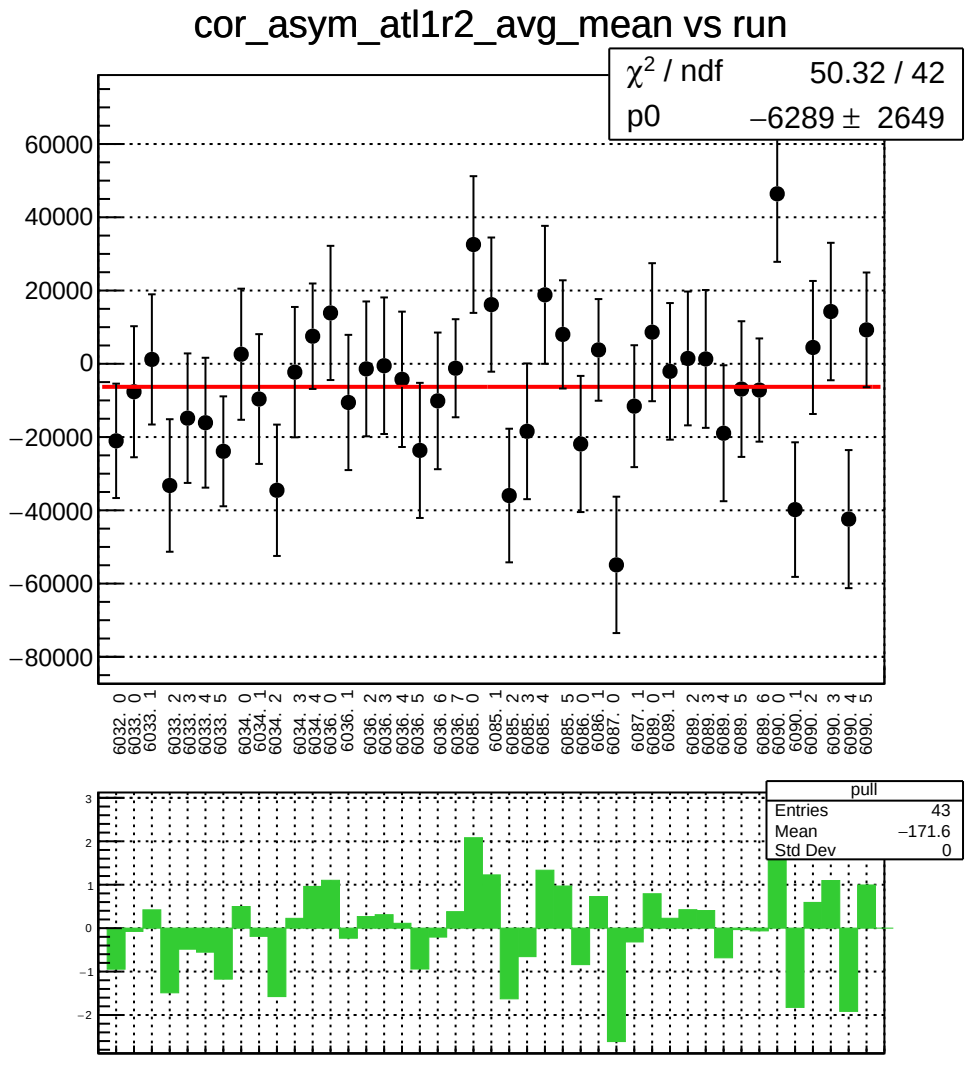

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 50.32 / 42
p0 −6290 ± 2649
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −171.5
Std Dev 0
3
2
1
0
−1
−2

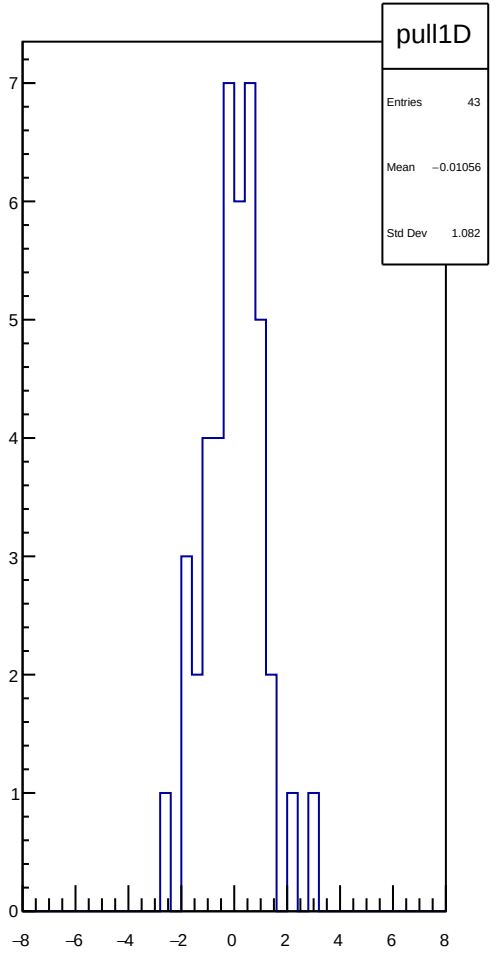

pull1D
Entries 43
Mean −0.01056
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

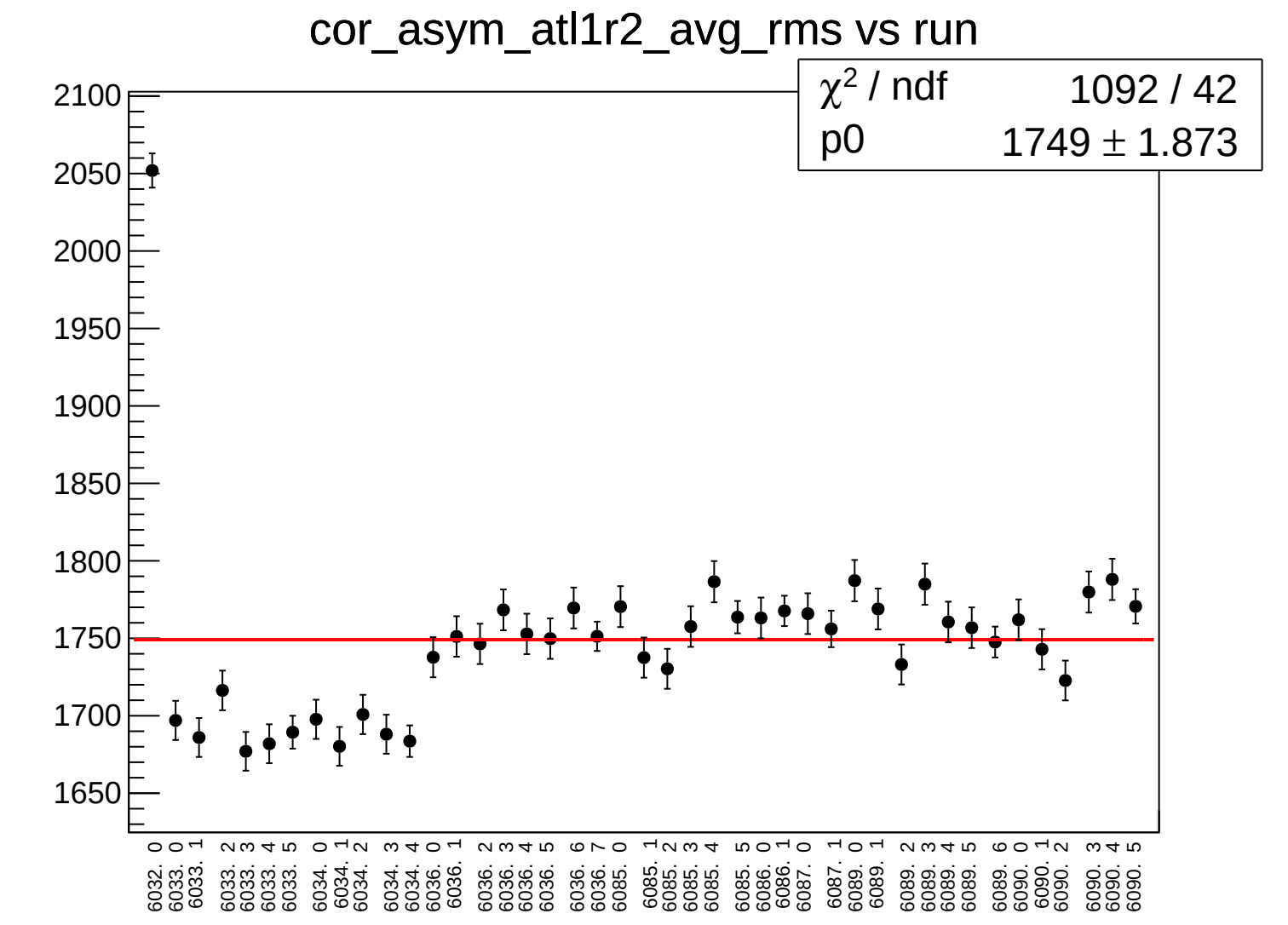

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1092 / 42
p0 1749 ± 1.873
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

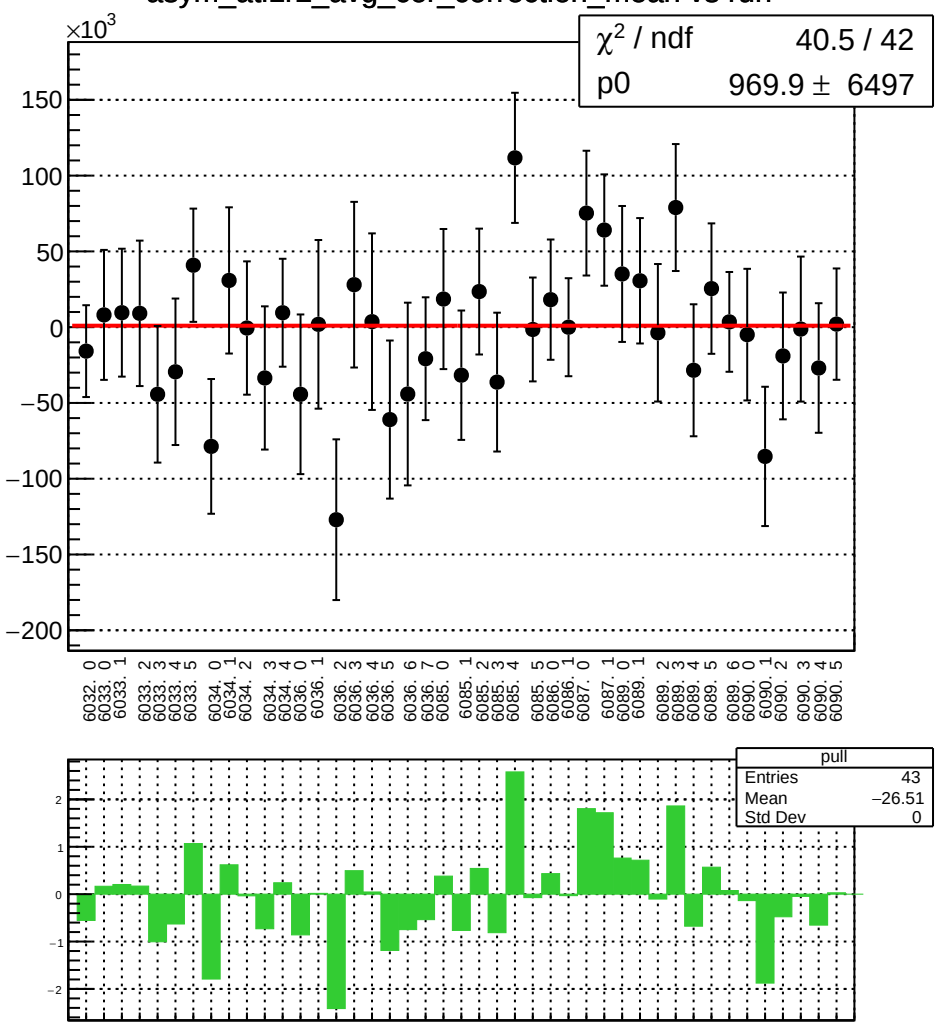

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.5 / 42
p0 969.9 ± 6497
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03818
Std Dev 0.9697
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

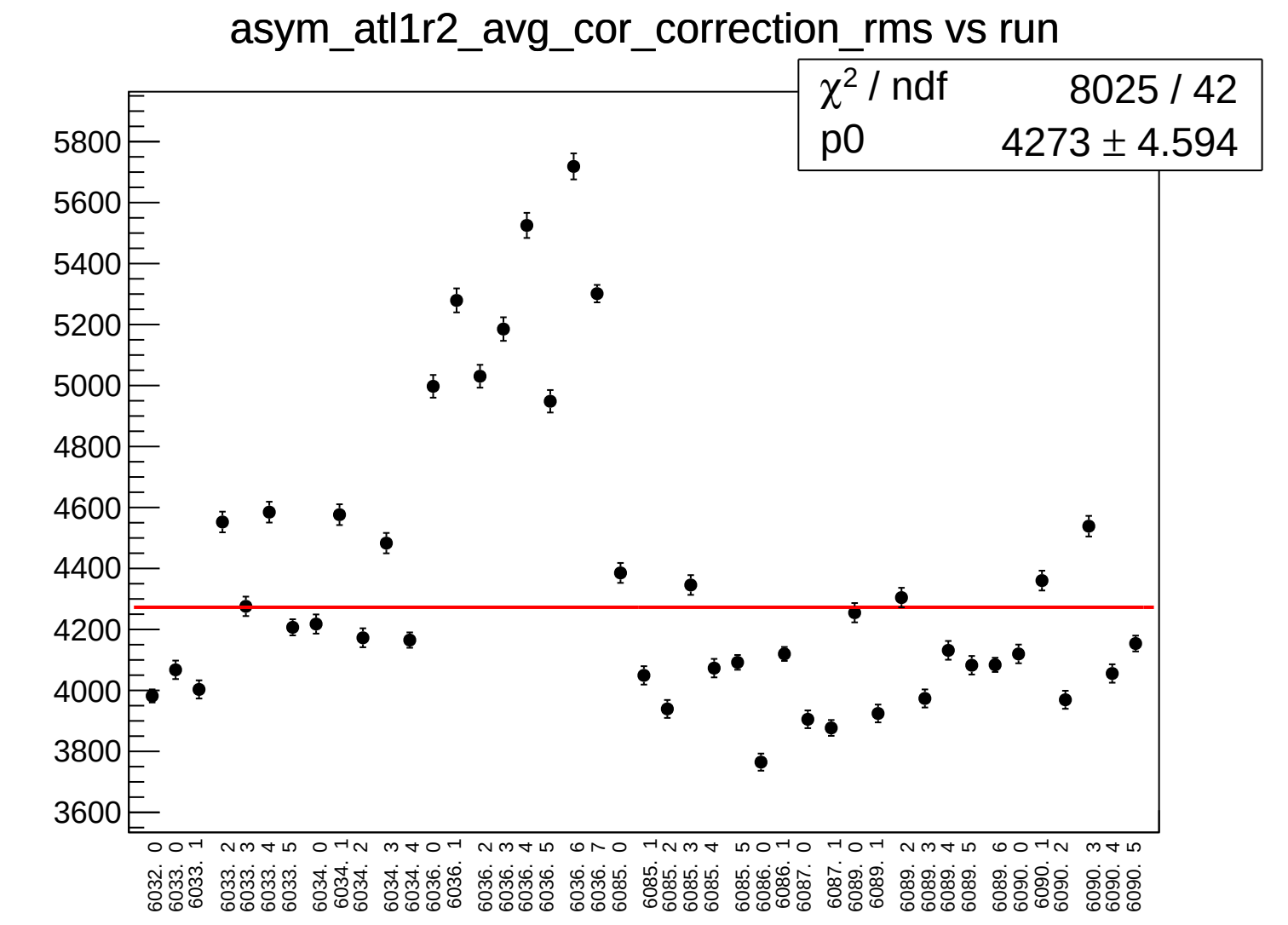

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 8024 / 42
p0 4273 ± 4.594
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_atl1r2_avg_mean vs run
χ² / ndf 50.32 / 42
p0 −6289 ± 2649
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −171.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.01056
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1092 / 42
p0 1749 ± 1.873
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.5 / 42
p0 969.9 ± 6497
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03818
Std Dev 0.9697
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 8025 / 42
p0 4273 ± 4.594
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
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6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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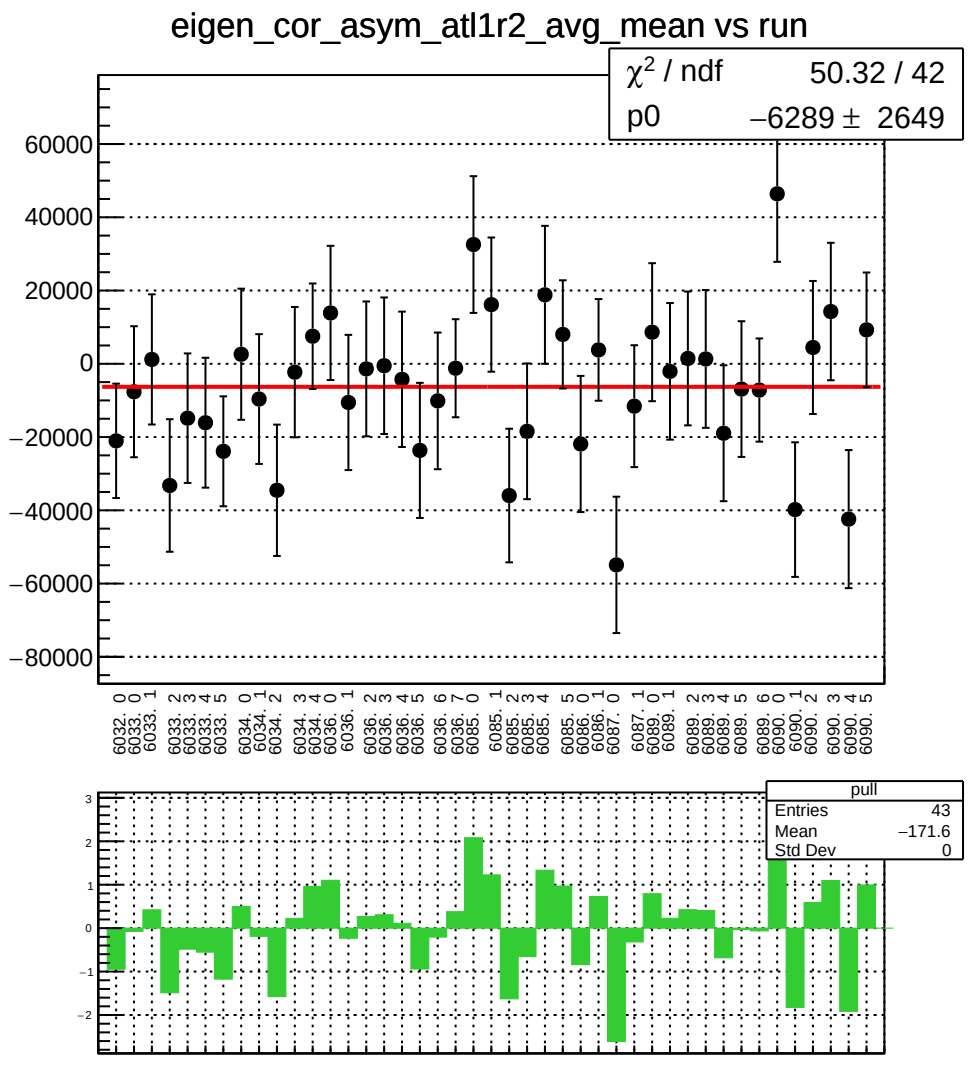
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 50.32 / 42
p0 −6289 ± 2649
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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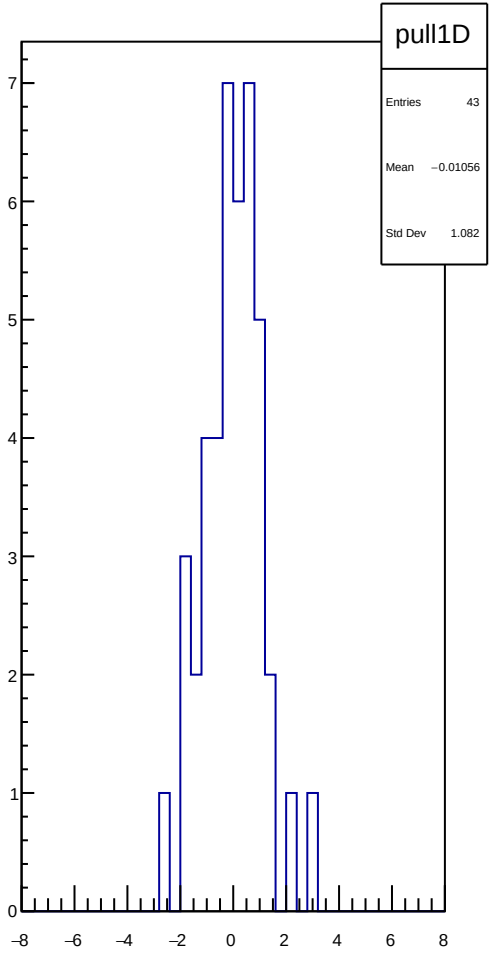
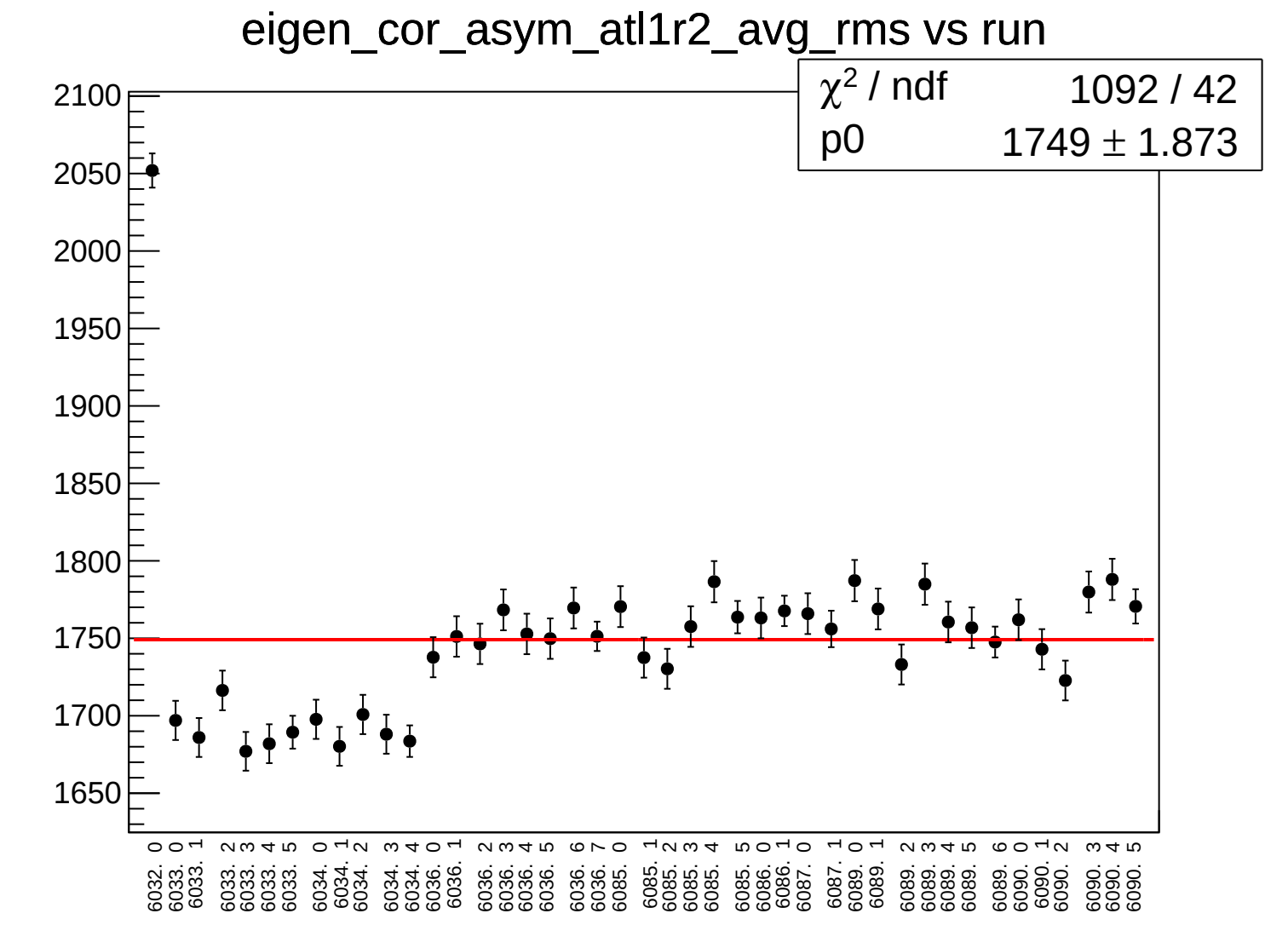
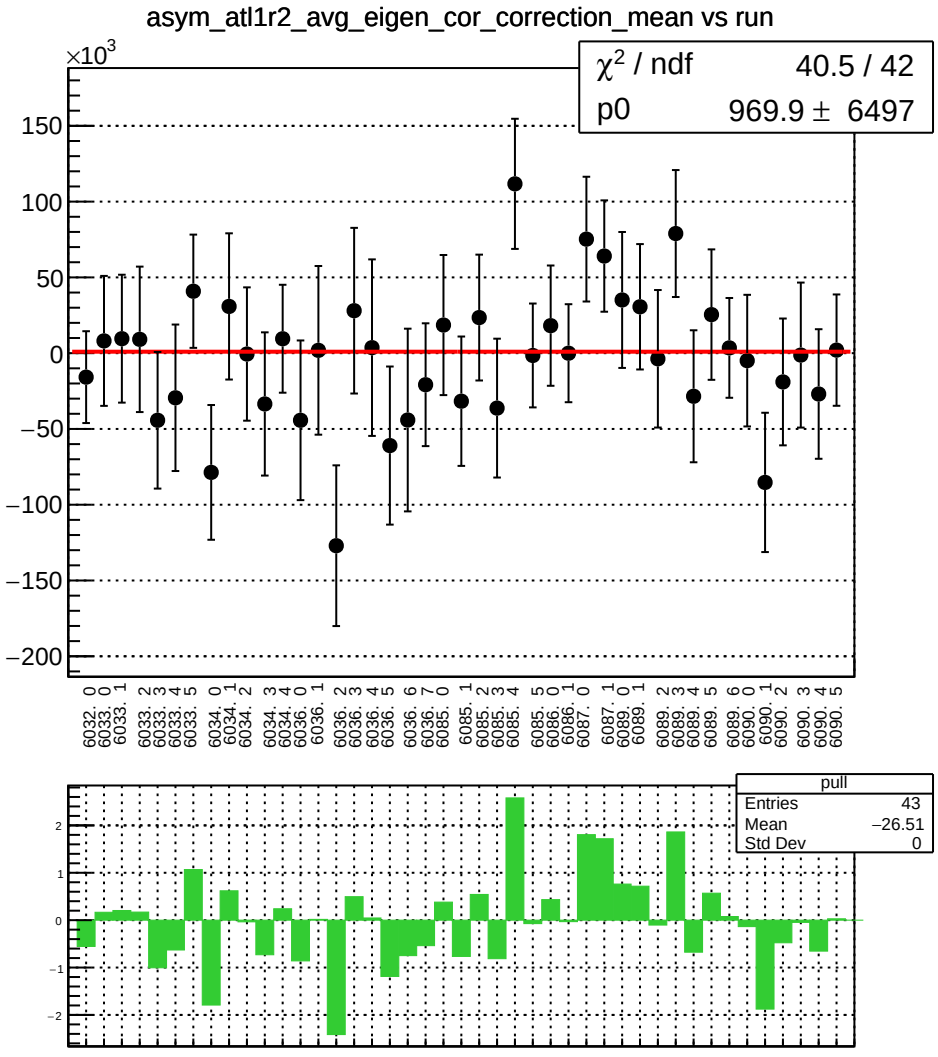
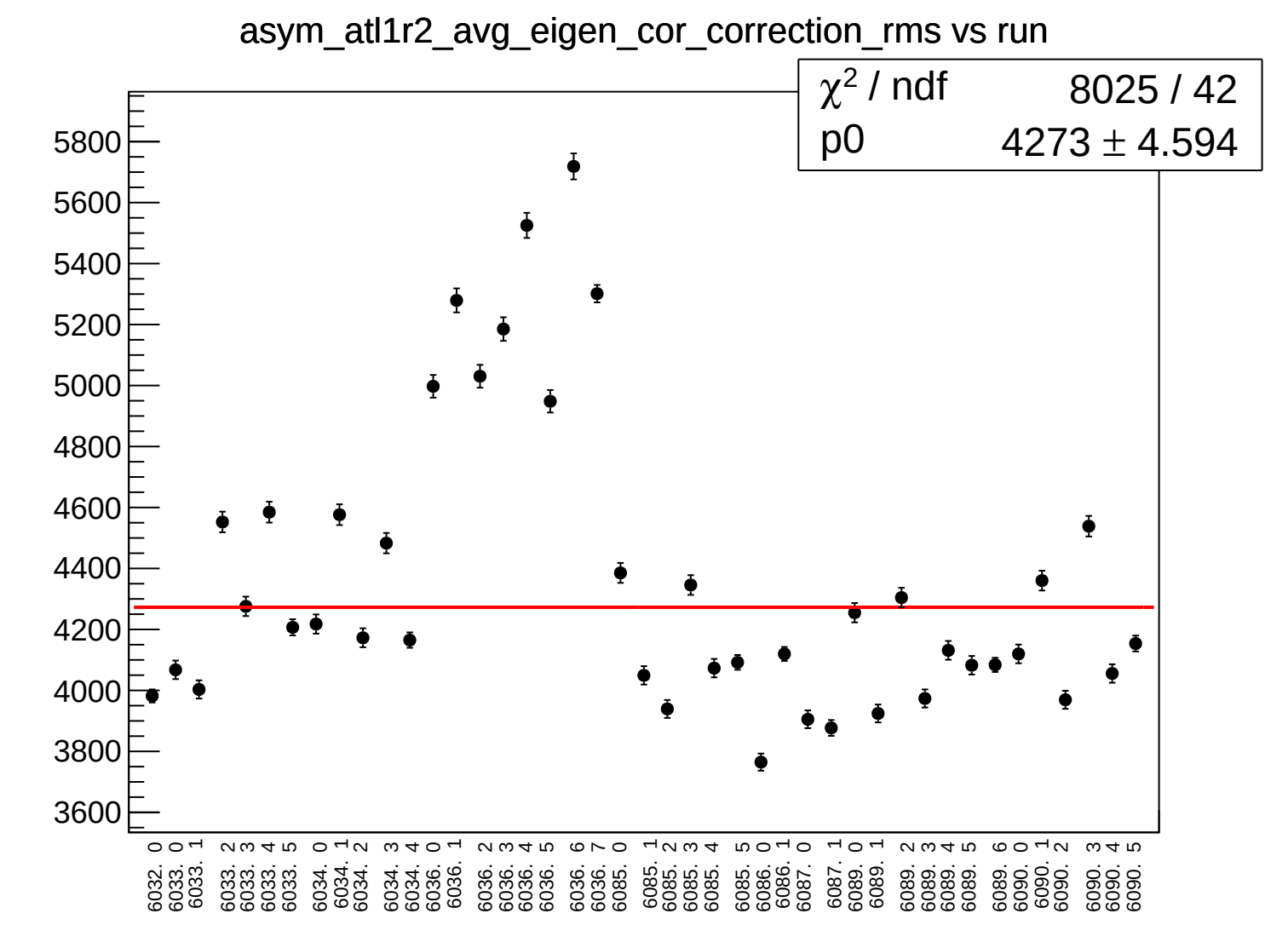
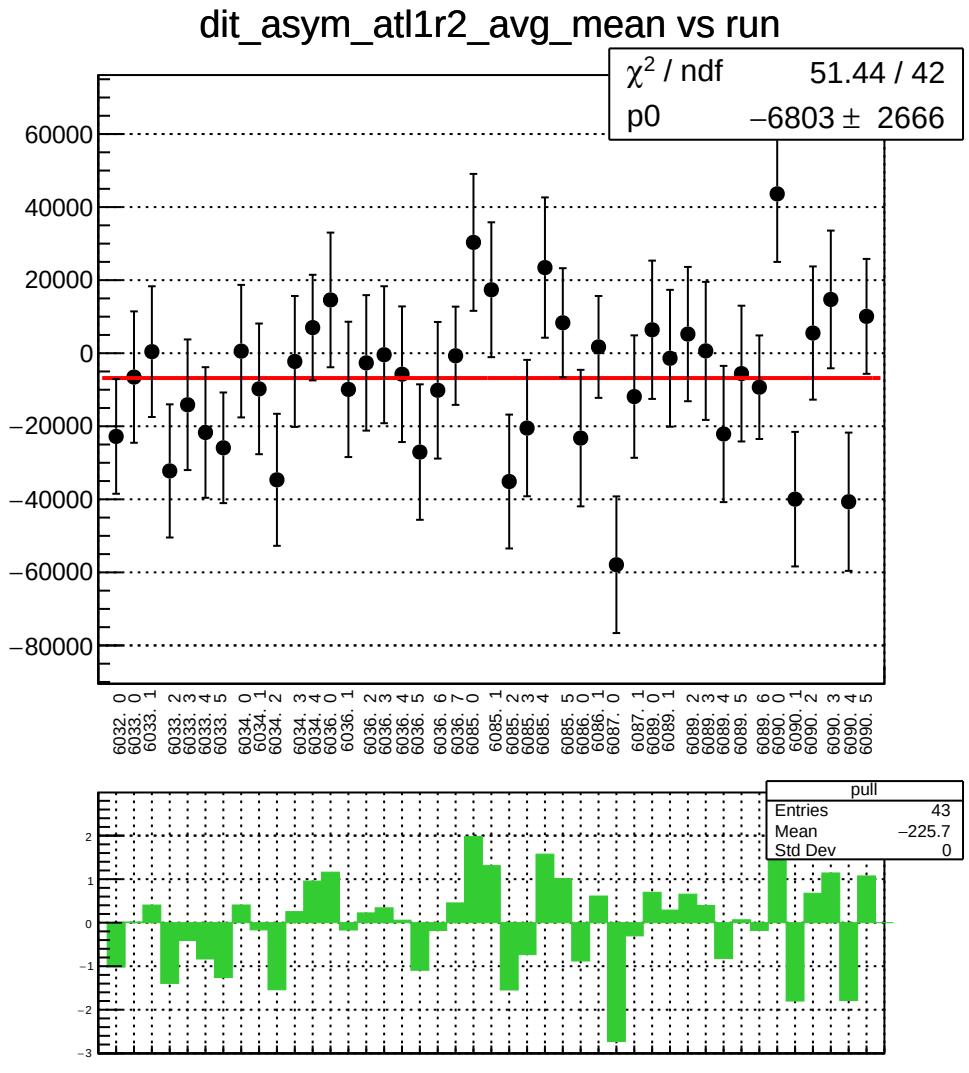
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −171.6
Std Dev 0
3
2
1
0
−1
−2

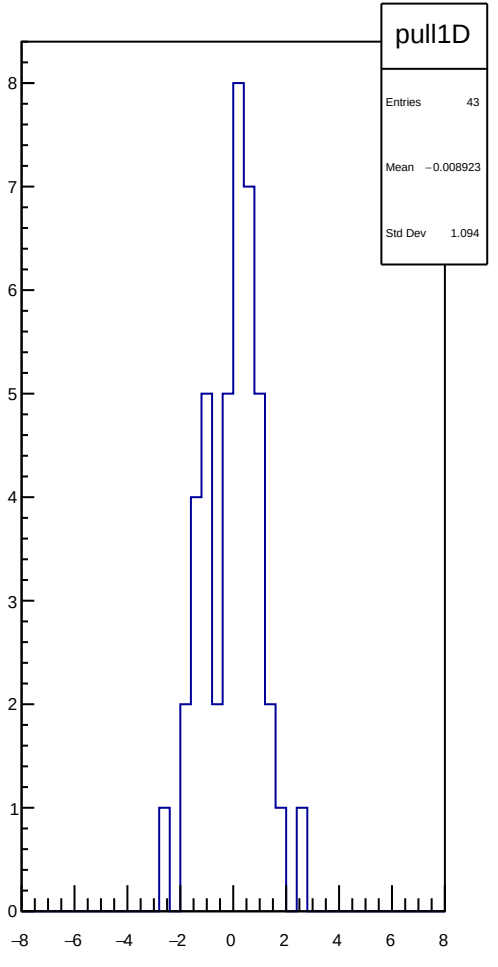

pull1D
Entries 43
Mean −0.01056
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

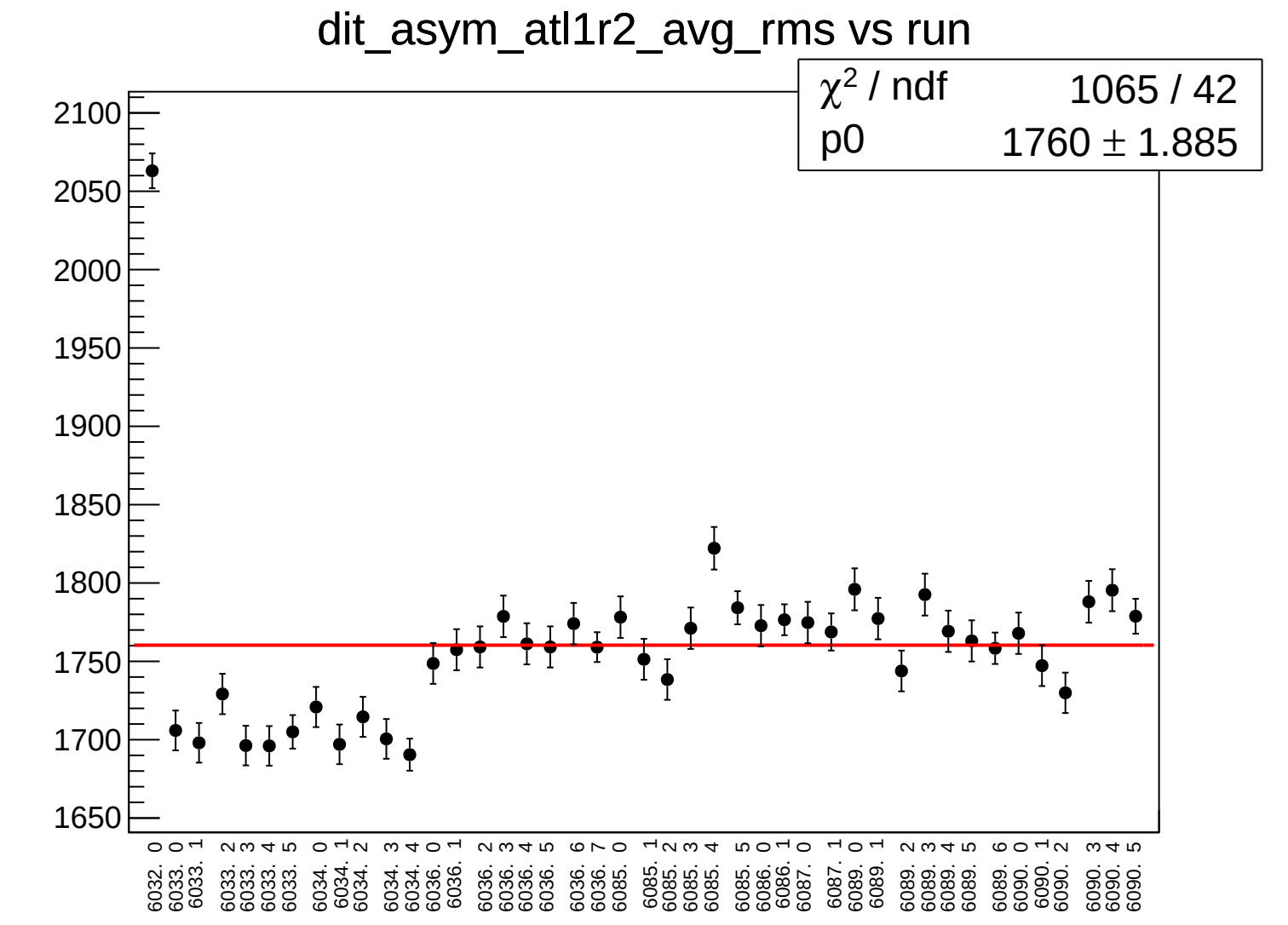

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1092 / 42
p0 1749 ± 1.873
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

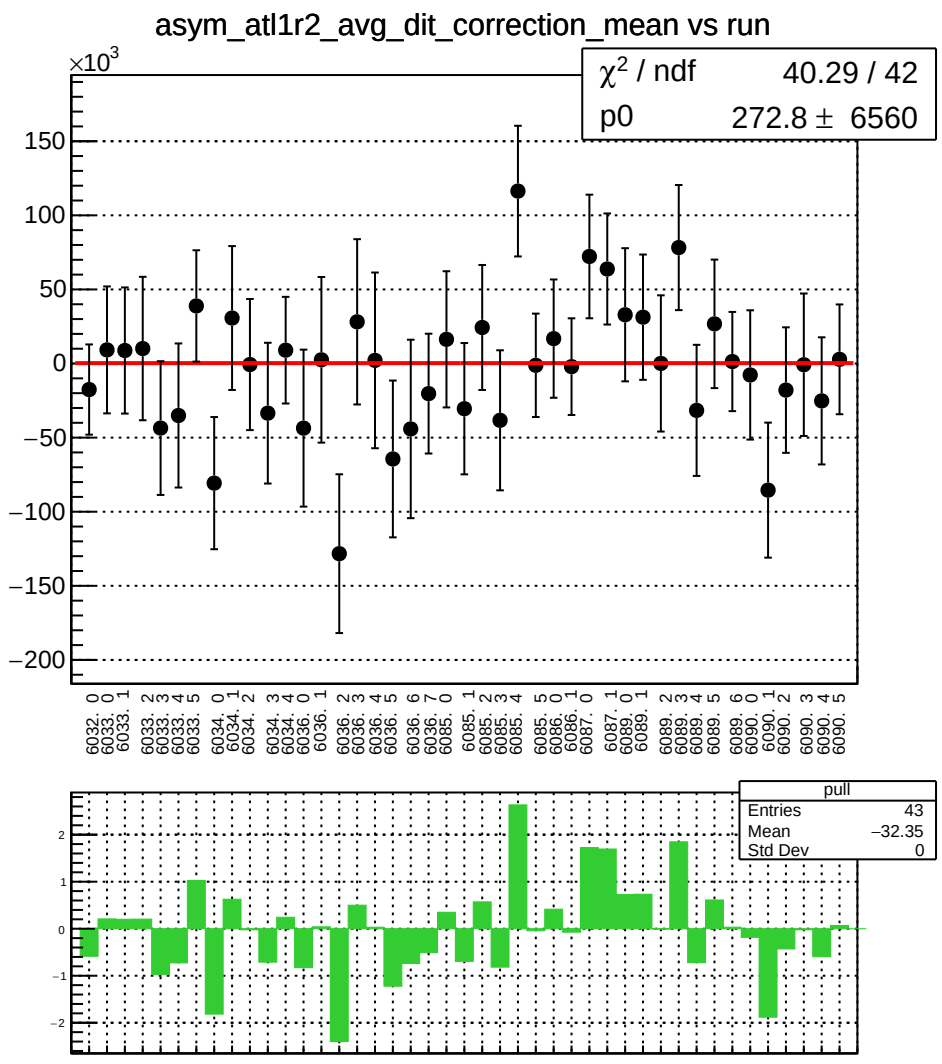

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.5 / 42
p0 969.9 ± 6497
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03818
Std Dev 0.9697
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

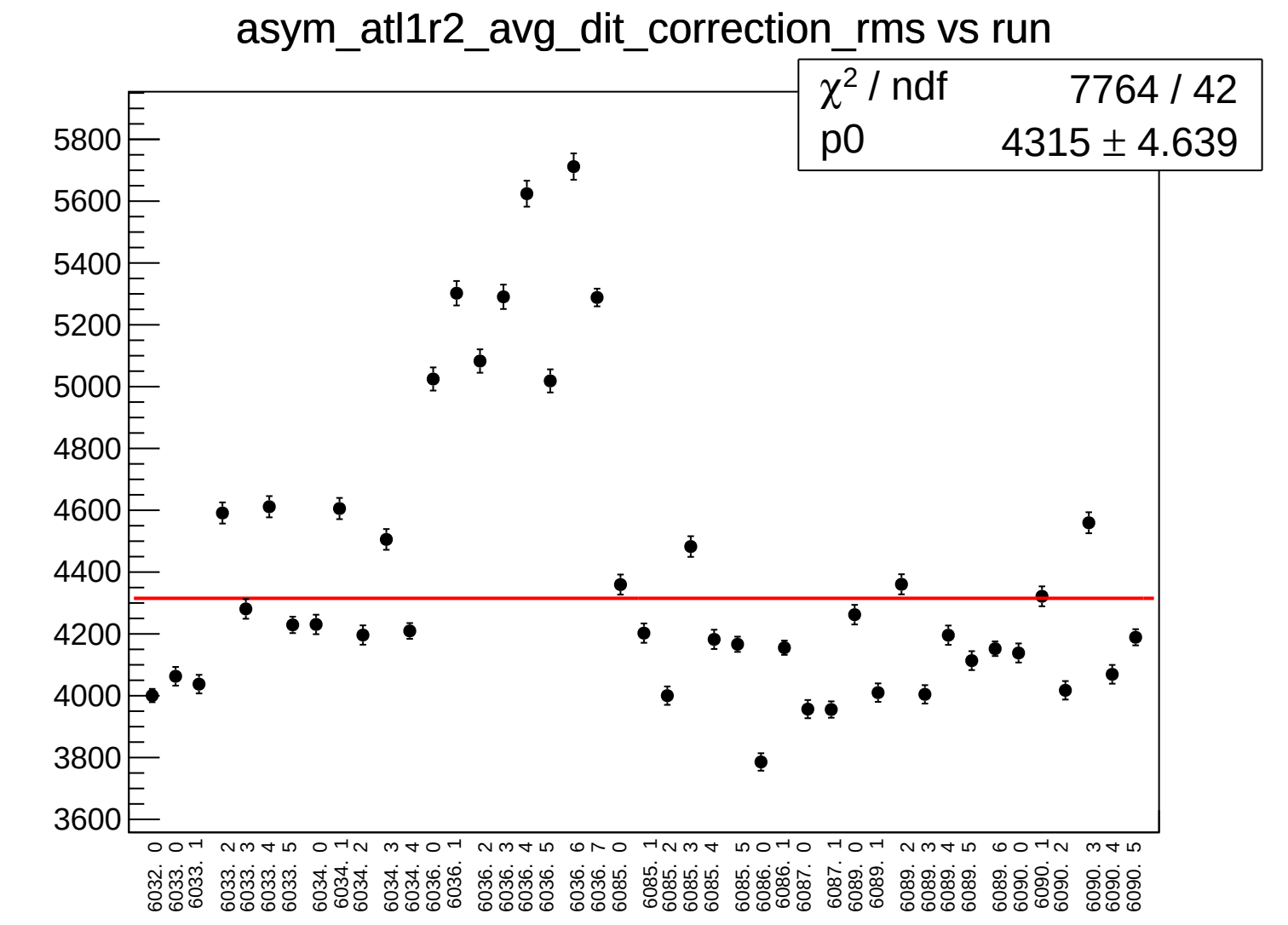

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8025 / 42
p0 4273 ± 4.594
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

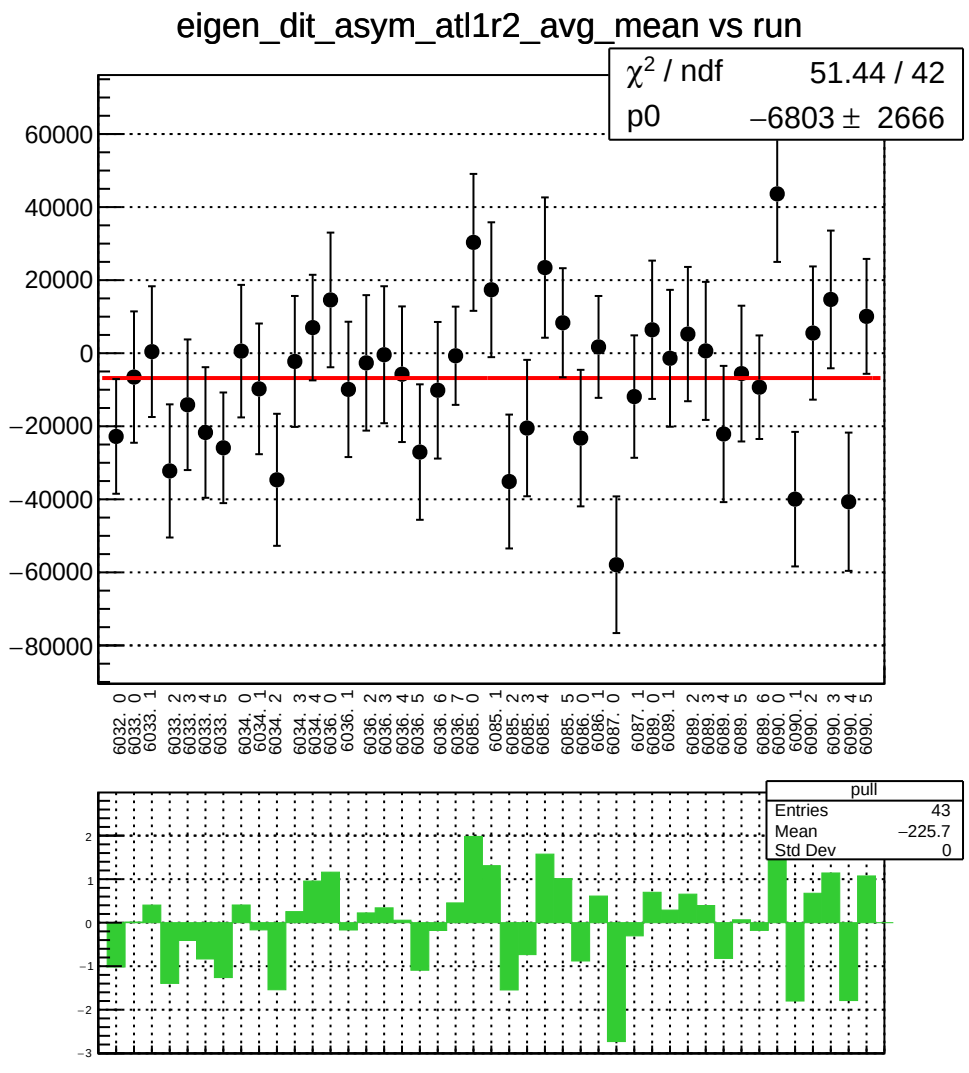

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 51.44 / 42
p0 −6803 ± 2666
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −225.7
Std Dev 0
2
1
0
−1
−2
−3

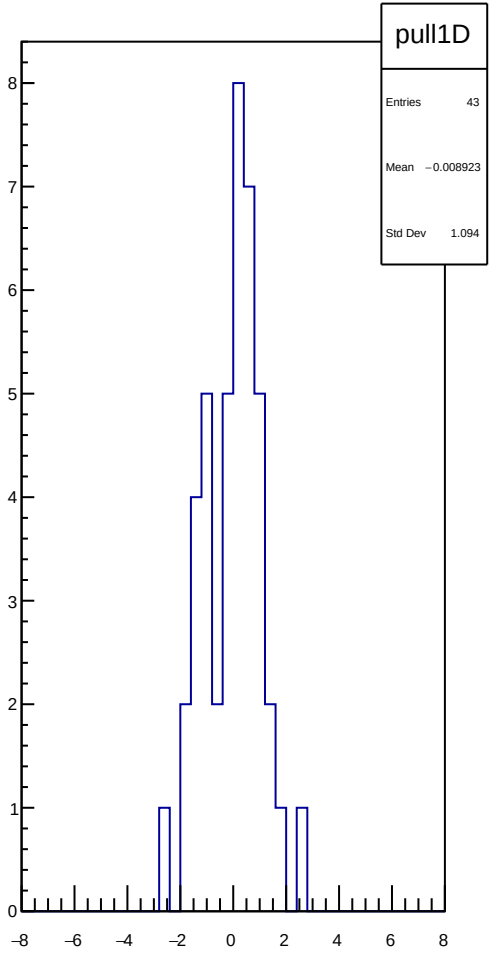

pull1D
Entries 43
Mean −0.008923
Std Dev 1.094
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

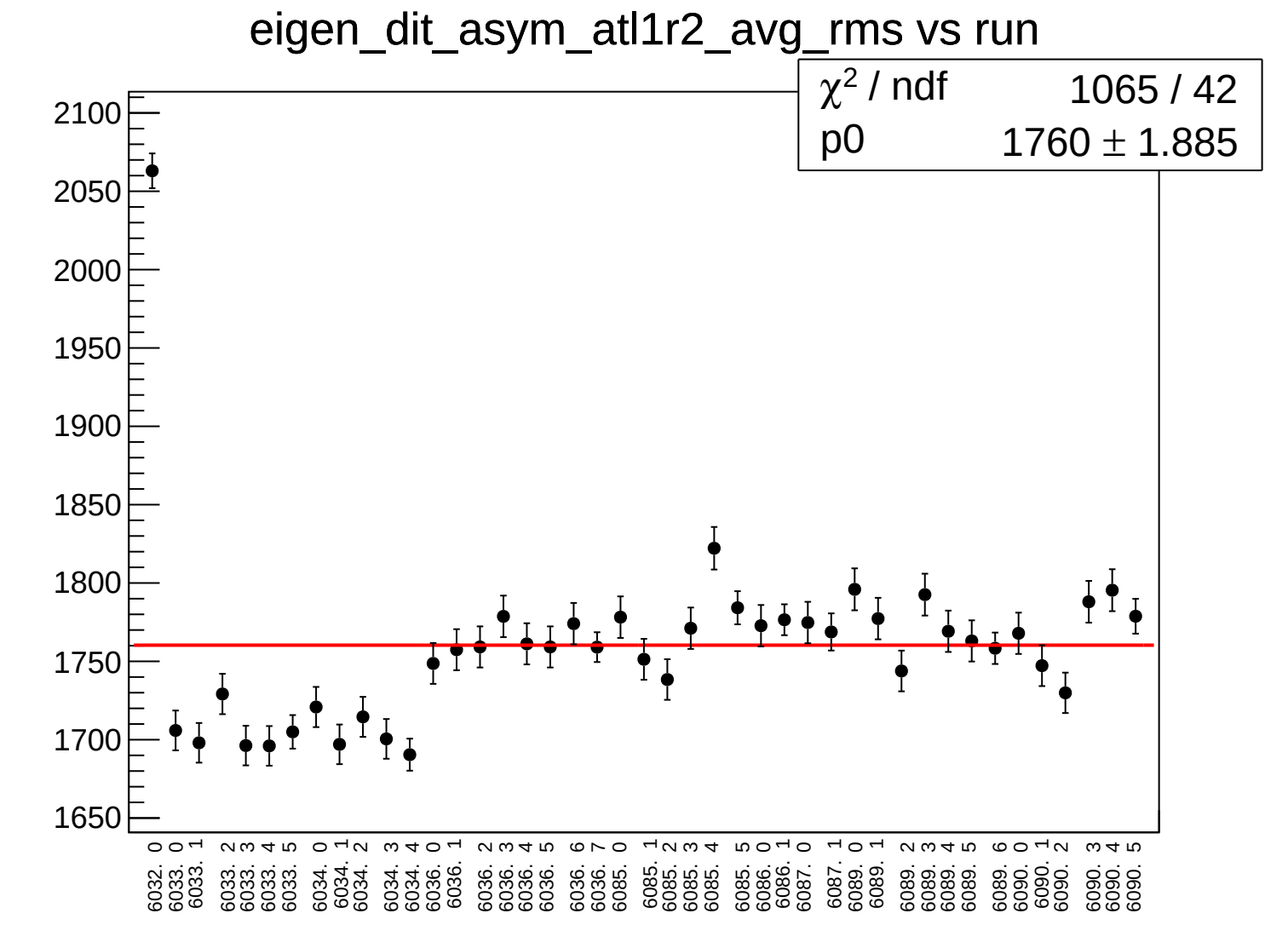

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1065 / 42
p0 1760 ± 1.885
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

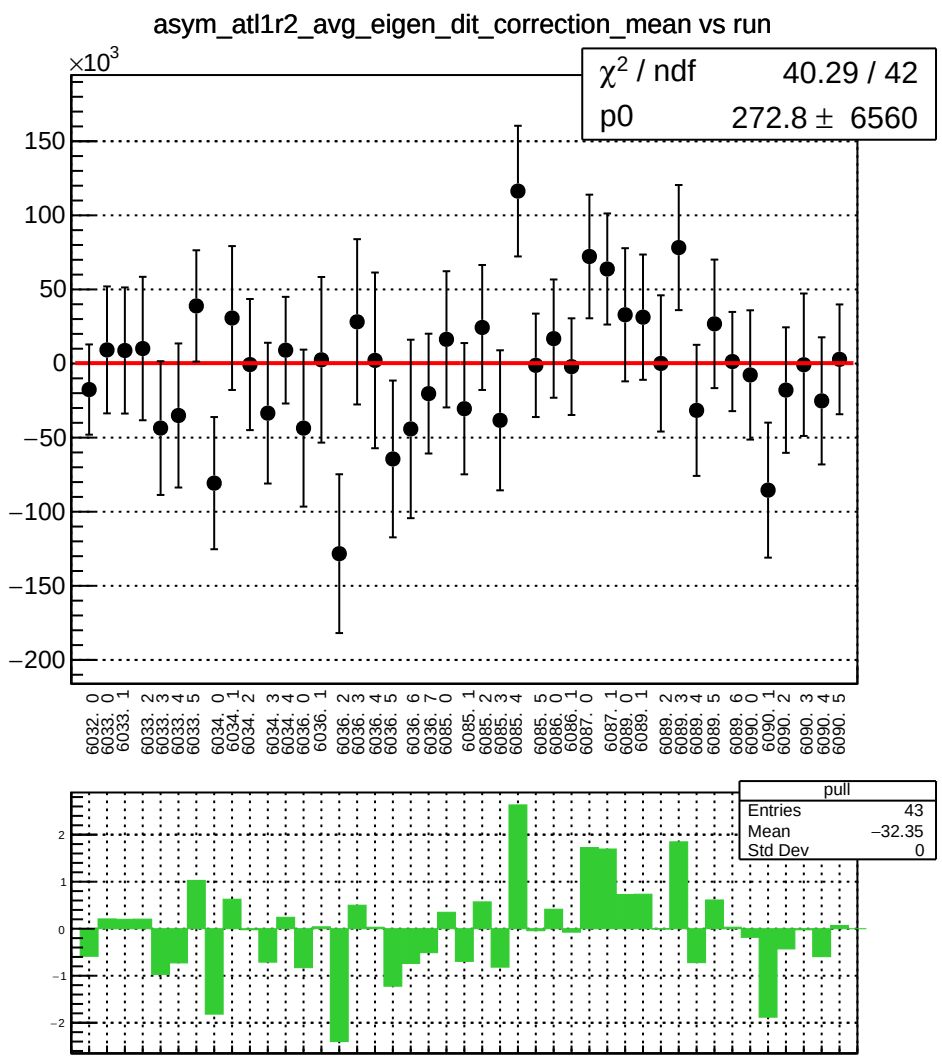

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 40.29 / 42
p0 272.8 ± 6560
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03497
Std Dev 0.9673
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

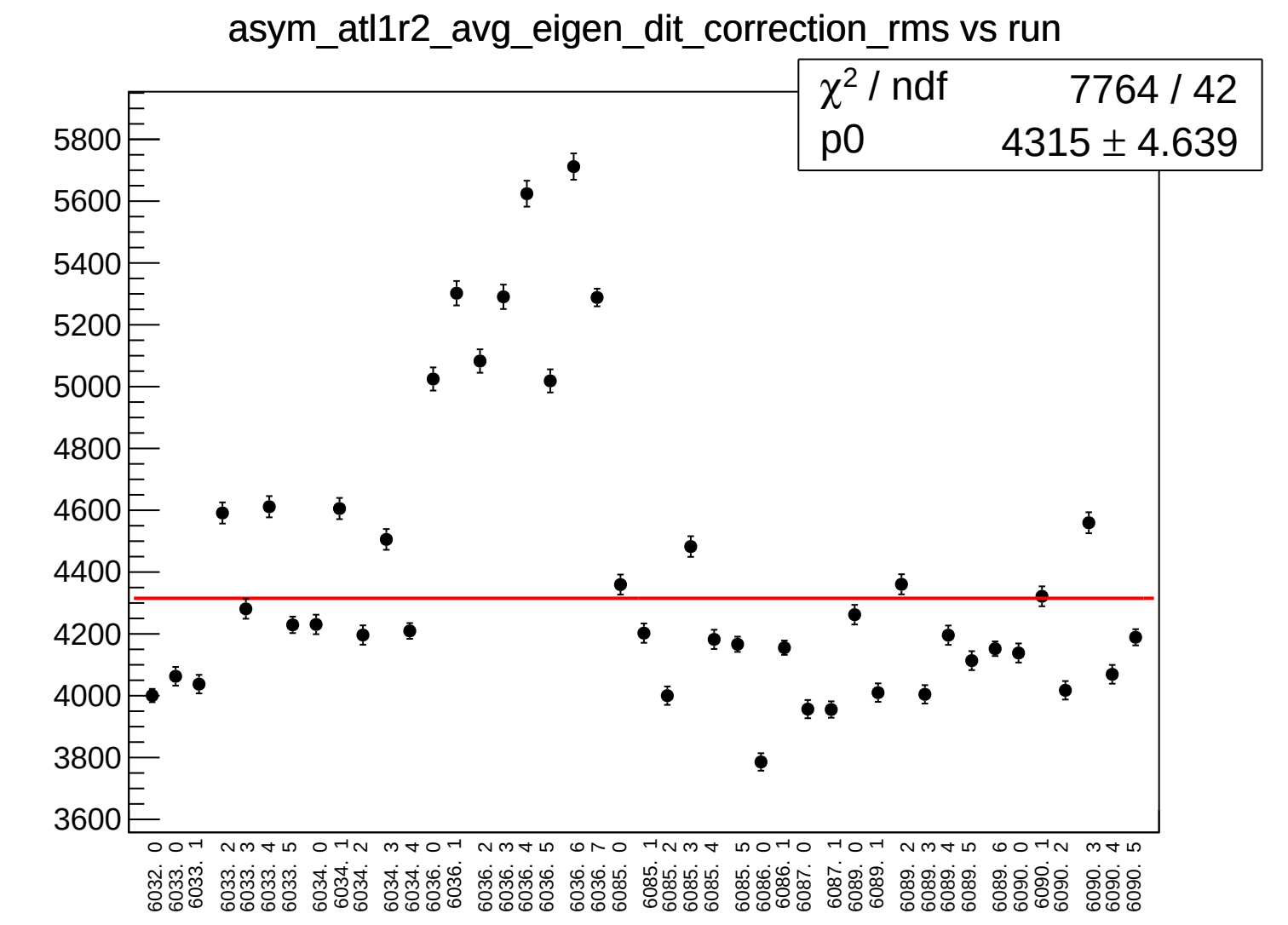

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 7764 / 42
p0 4315 ± 4.639
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

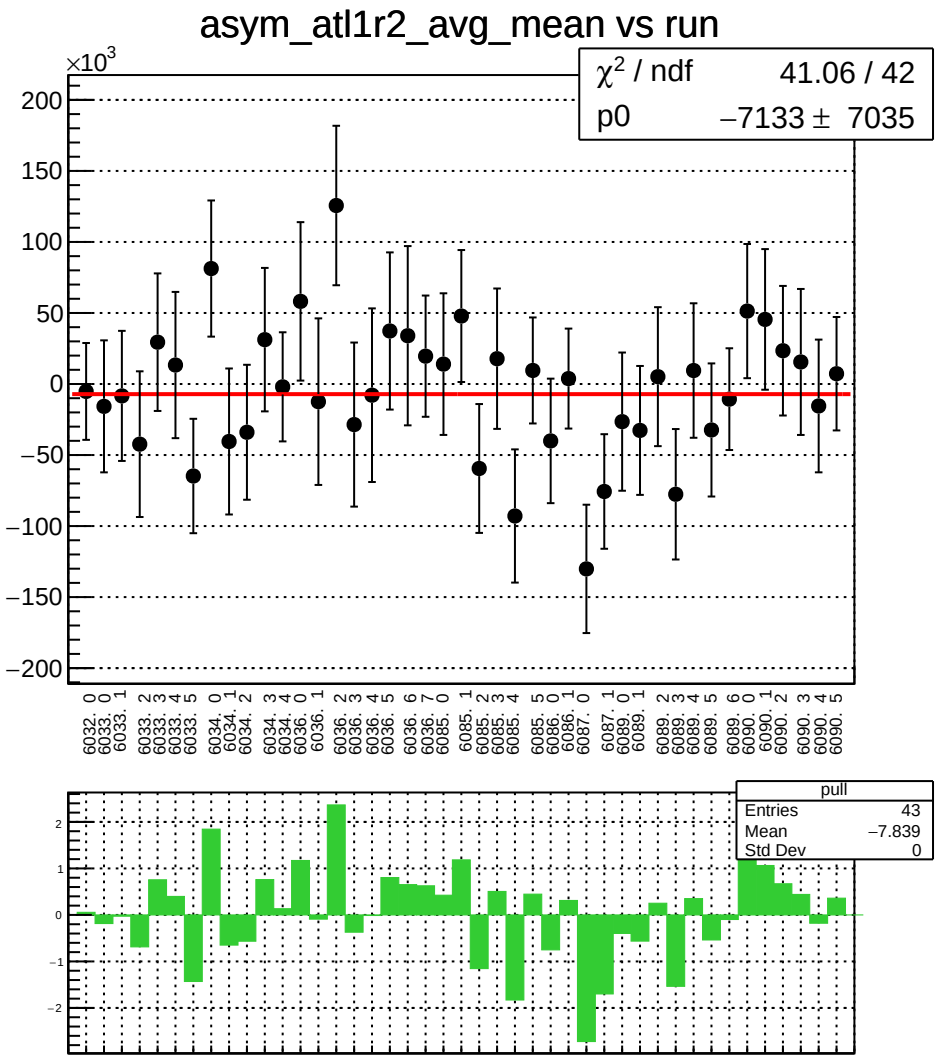

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 51.44 / 42
p0 −6803 ± 2666
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −225.7
Std Dev 0
2
1
0
−1
−2
−3

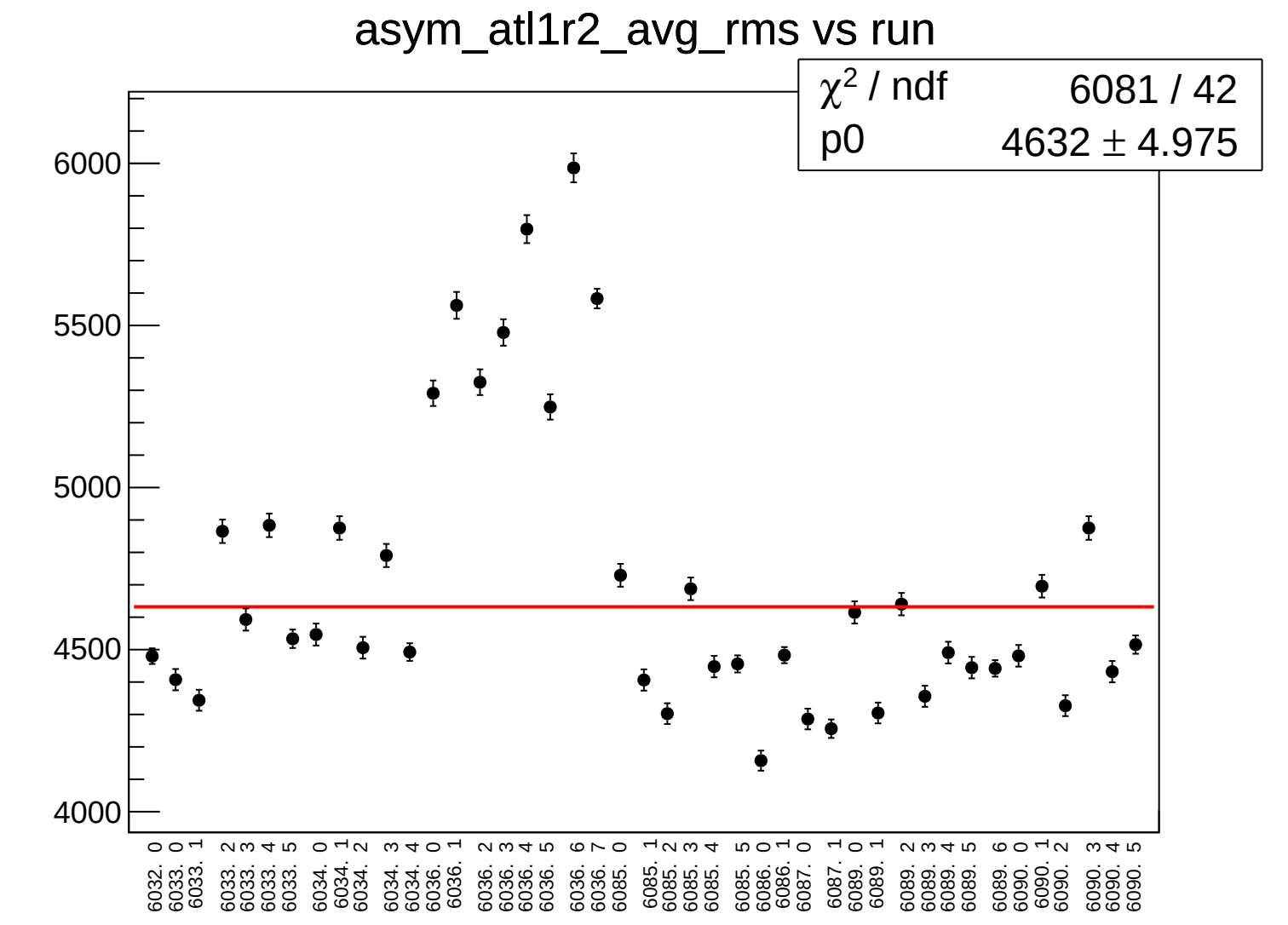

pull1D
Entries 43
Mean −0.008923
Std Dev 1.094
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

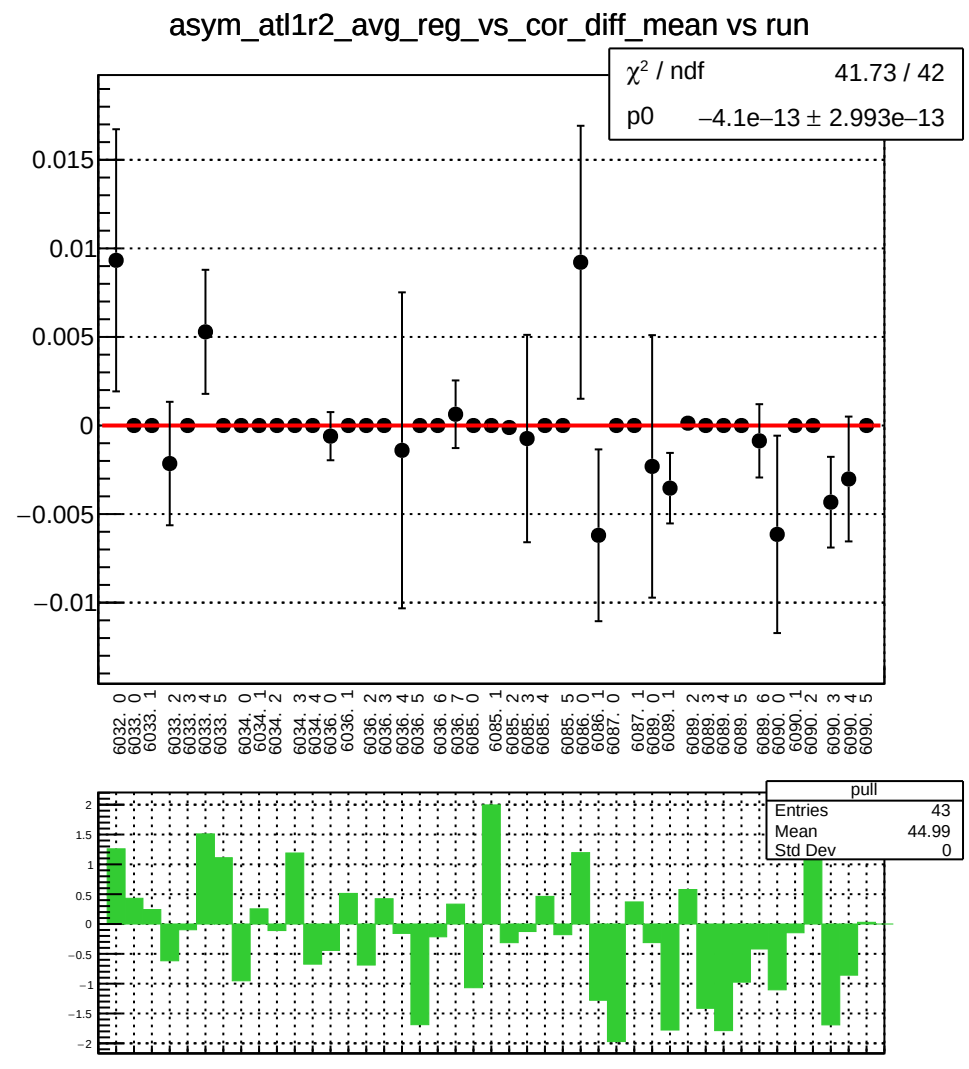

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1065 / 42
p0 1760 ± 1.885
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

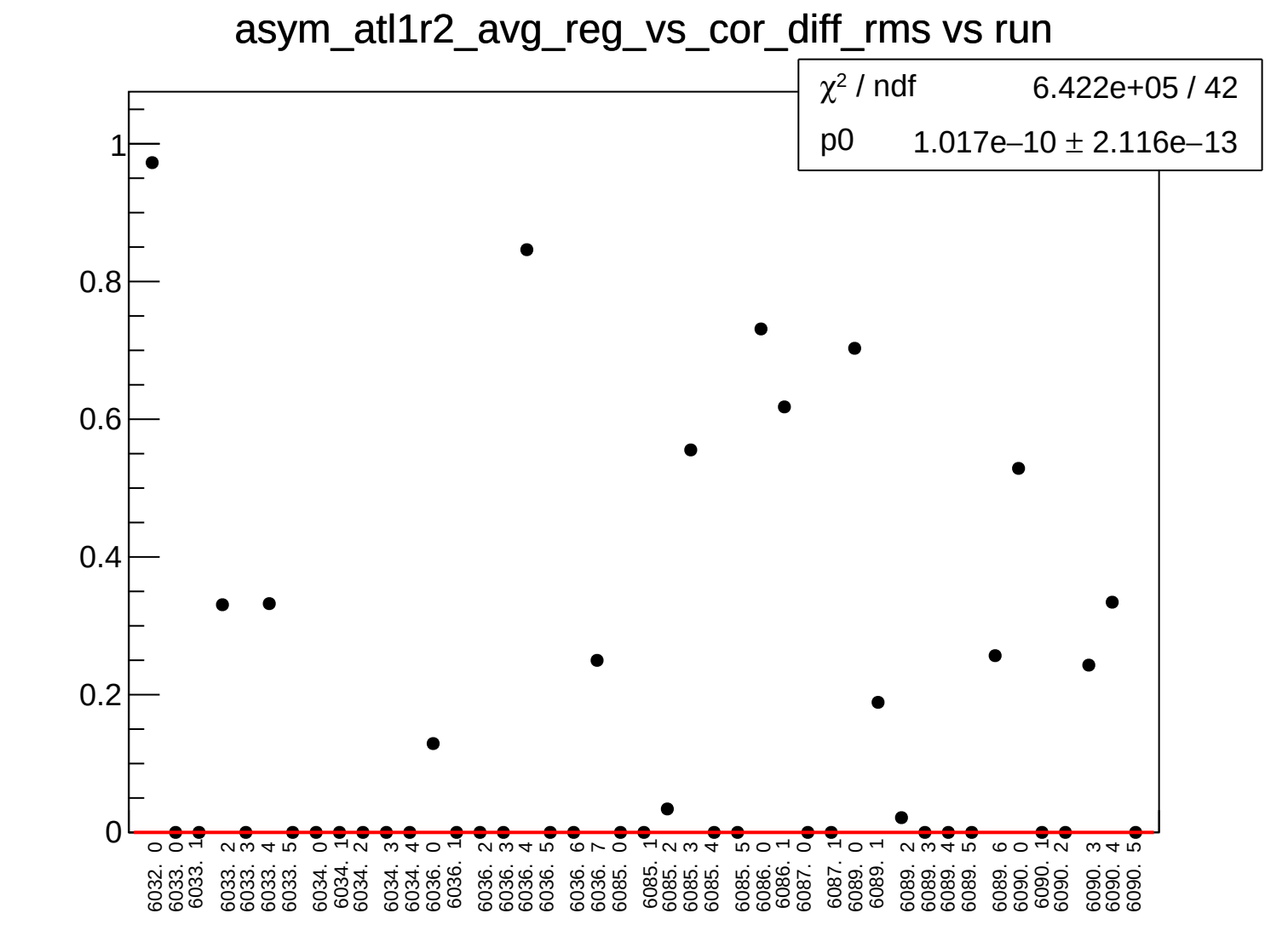

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 40.29 / 42
p0 272.8 ± 6560
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03497
Std Dev 0.9673
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

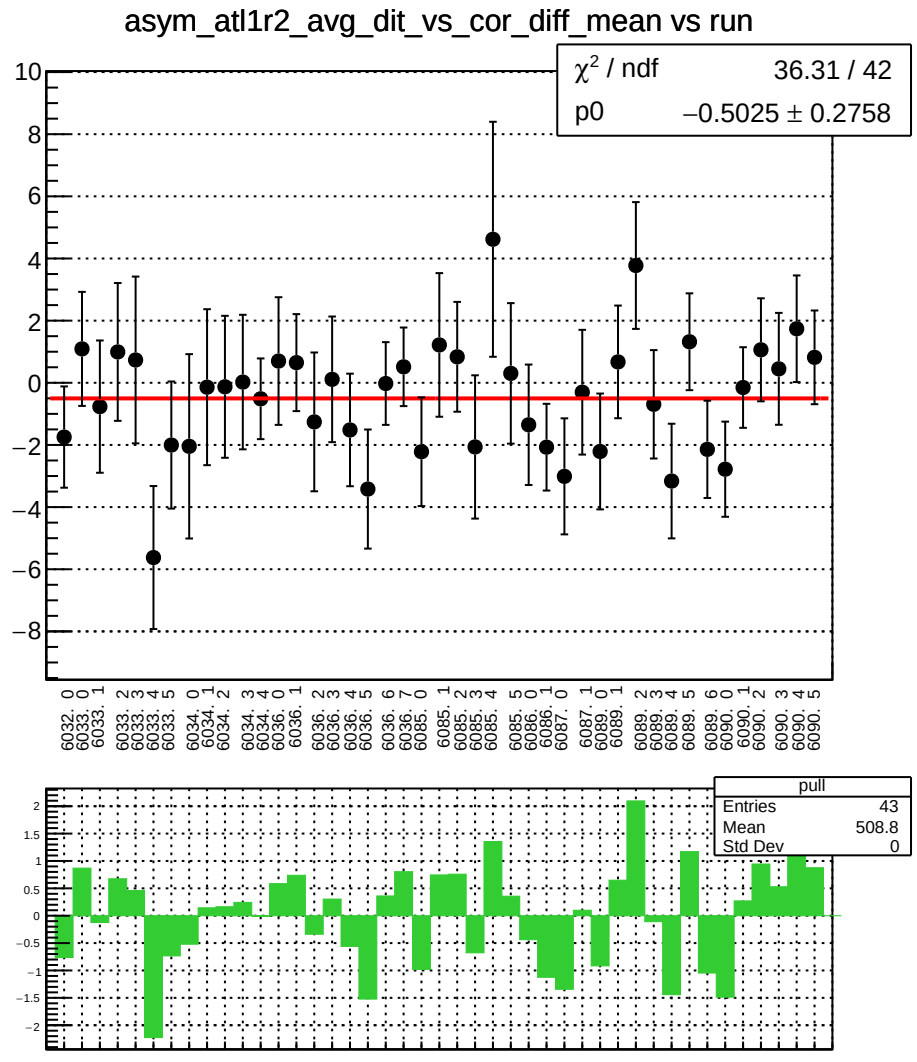

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 7764 / 42
p0 4315 ± 4.639
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

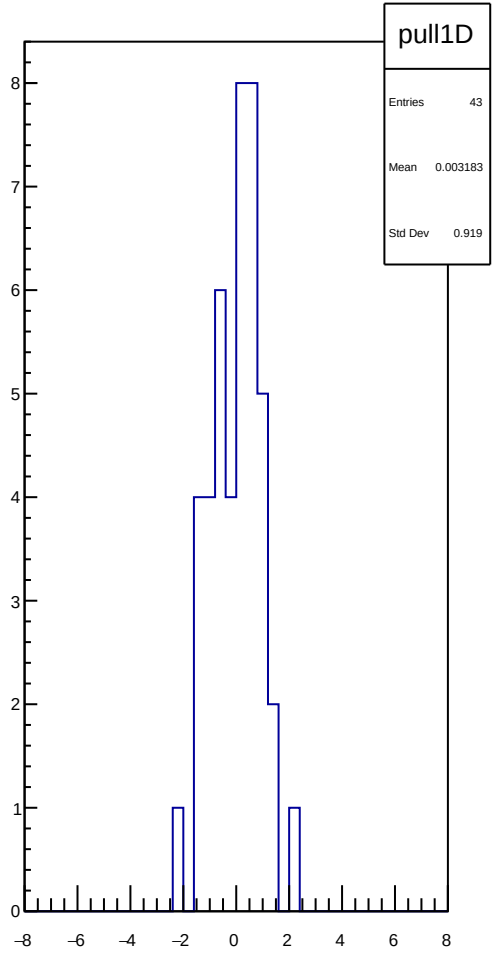

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 41.06 / 42
p0 −7133 ± 7035
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −7.839
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03089
Std Dev 0.9767
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

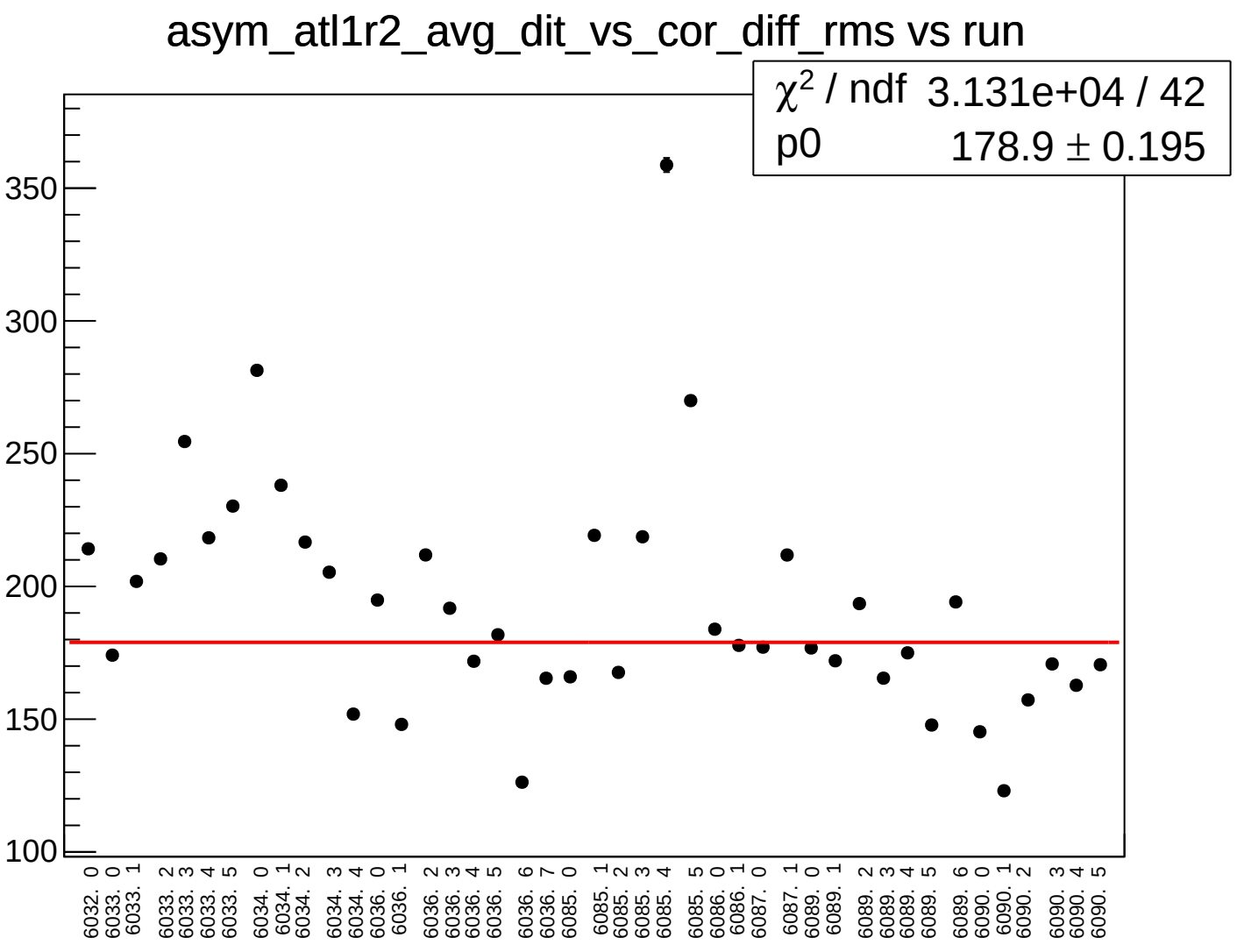

asym_atl1r2_avg_rms vs run
χ² / ndf 6081 / 42
p0 4632 ± 4.975
6000
5500
5000
4500
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

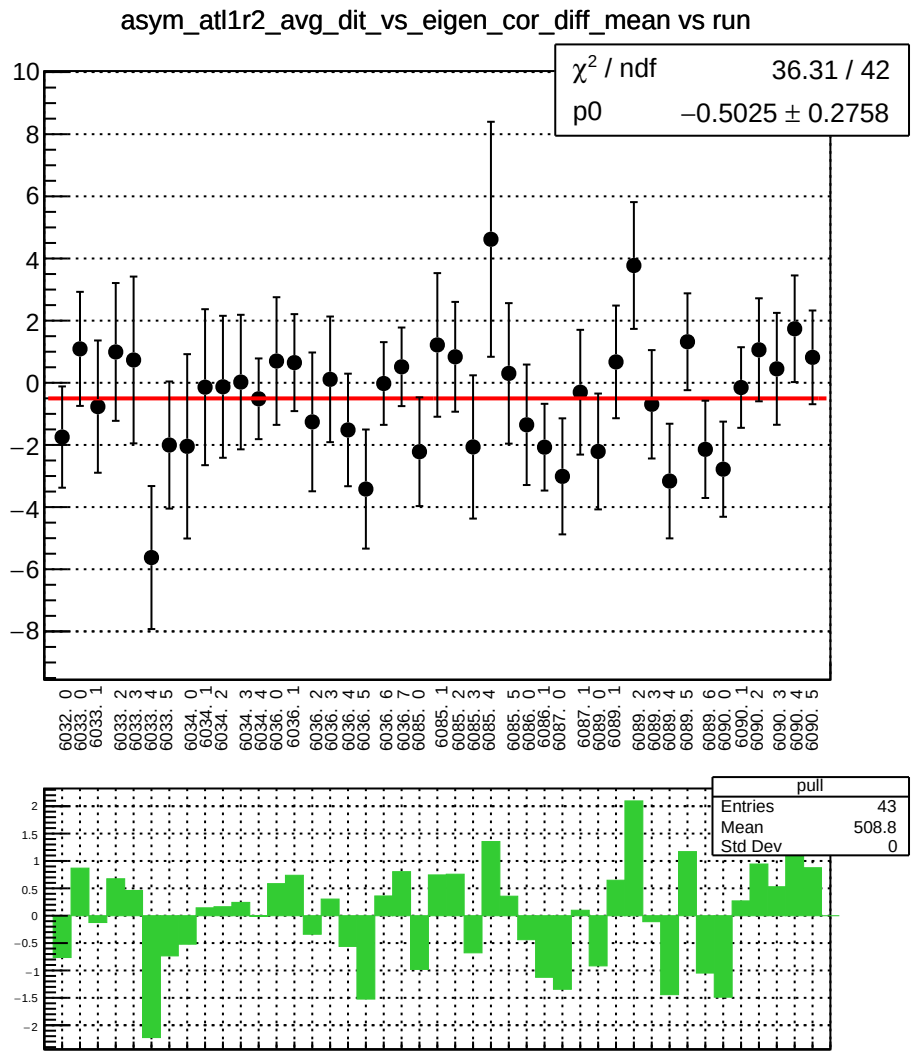

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.73 / 42
p0 −4.1e−13 ± 2.993e−13
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 44.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1822
Std Dev 0.9682
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

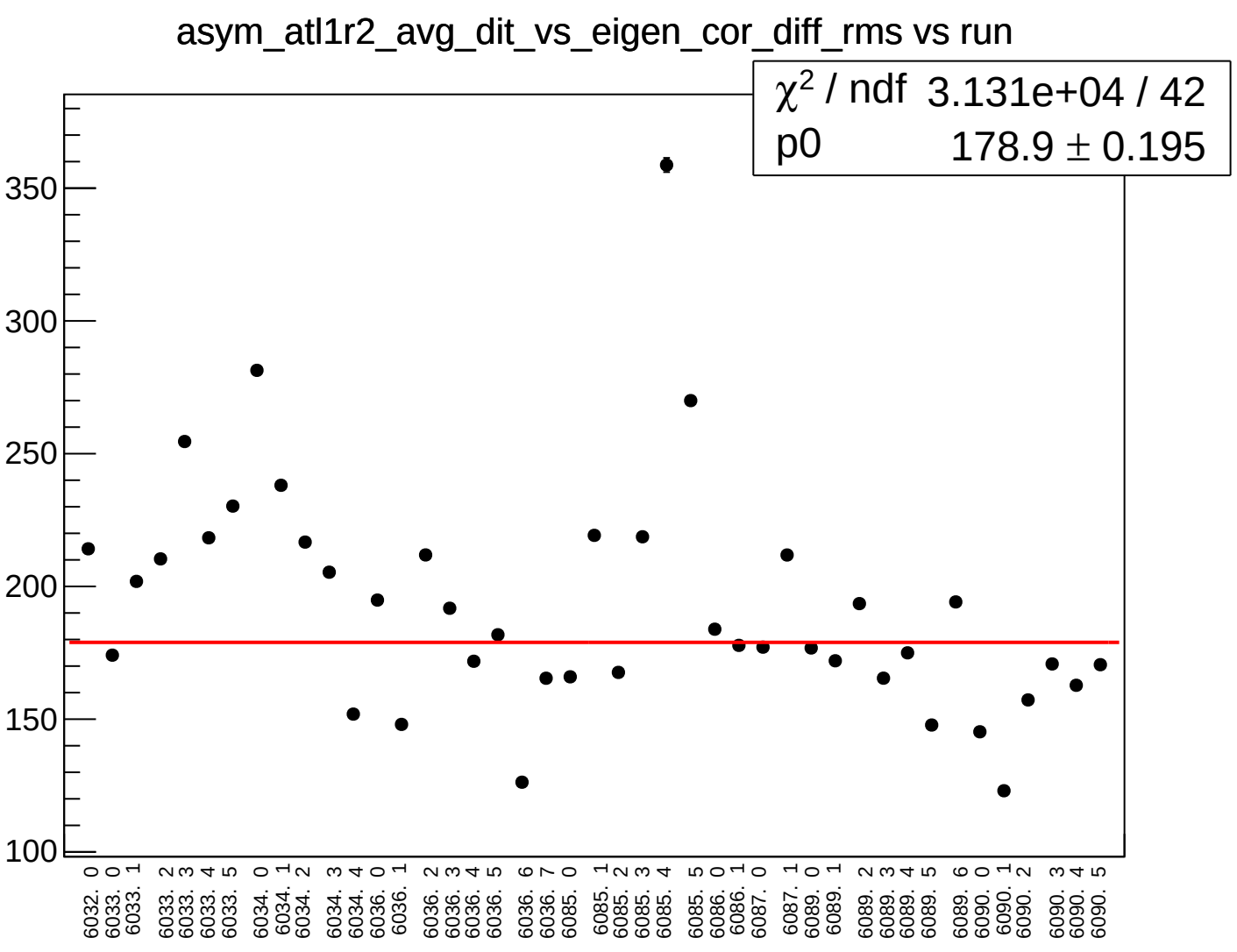

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.422e+05 / 42
p0 1.017e−10 ± 2.116e−13
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

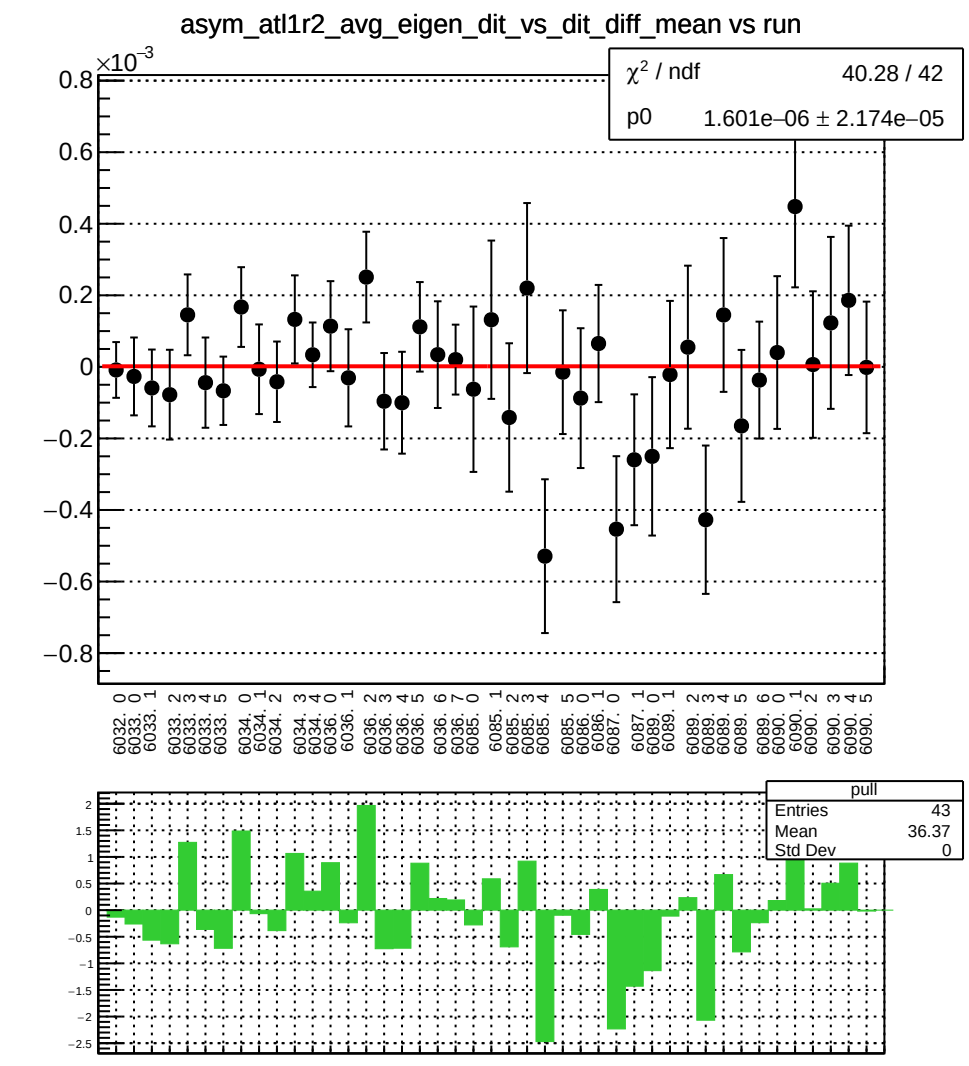

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.31 / 42
p0 −0.5025 ± 0.2758
pull
Entries 43
Mean 508.8
Std Dev 0

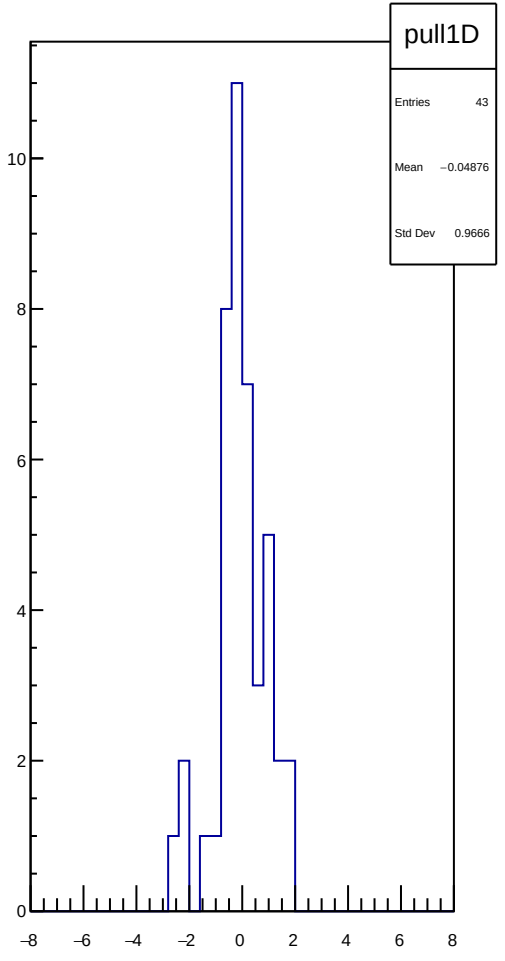

pull1D
Entries 43
Mean 0.003183
Std Dev 0.919

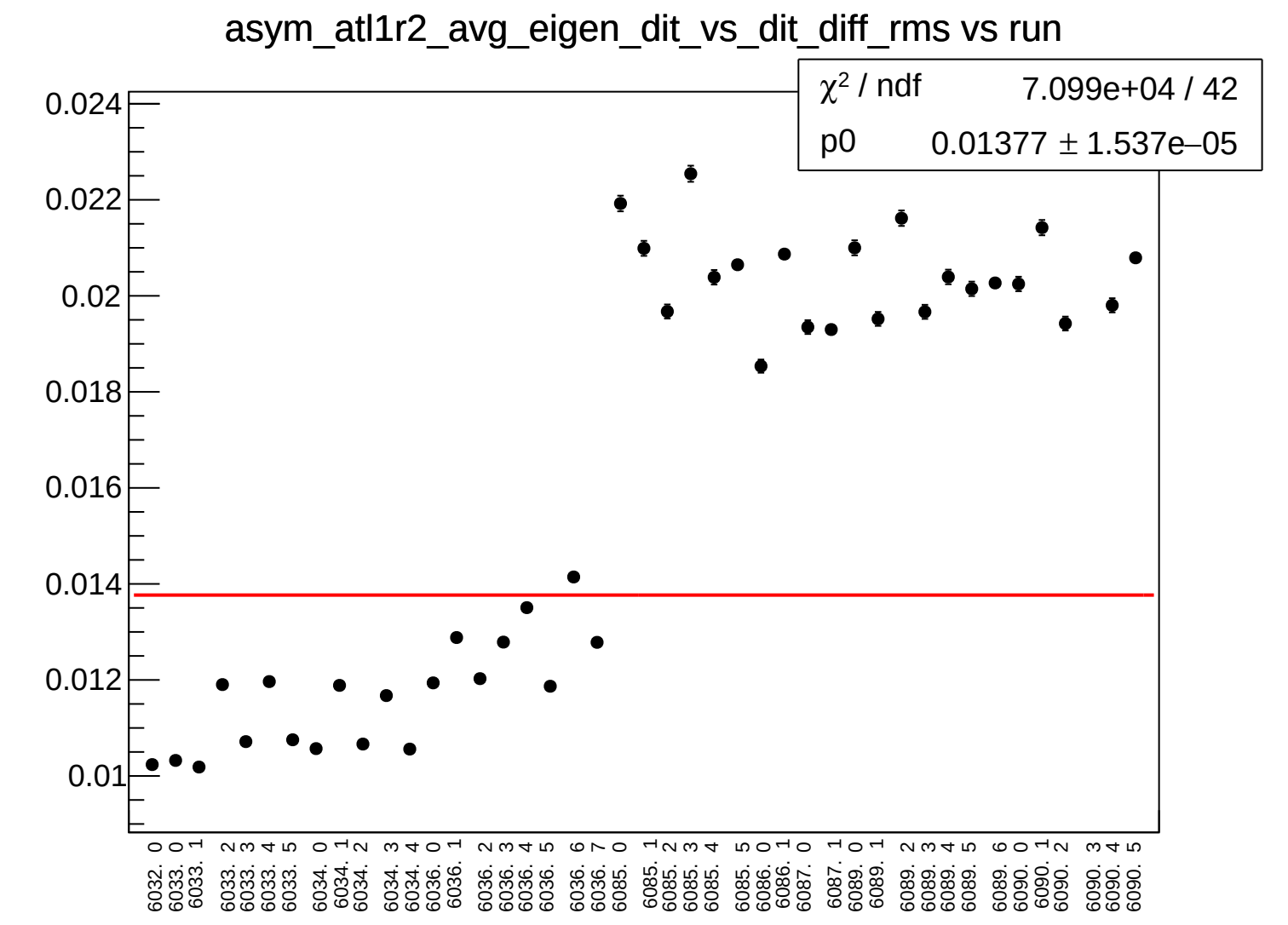

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.131e+04 / 42
p0 178.9 ± 0.195
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

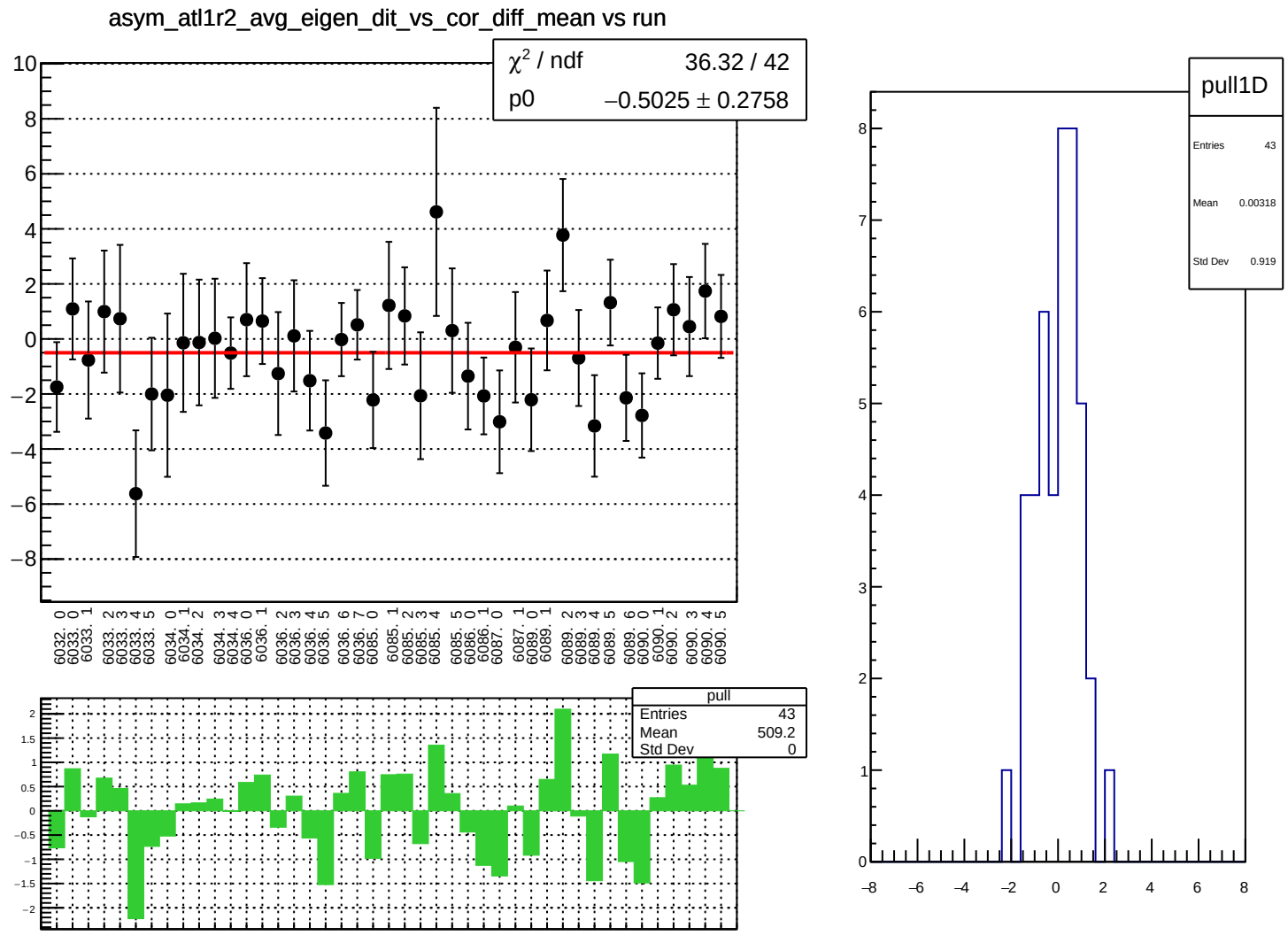

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.31 / 42
p0 −0.5025 ± 0.2758
pull
Entries 43
Mean 508.8
Std Dev 0
pull1D
Entries 43
Mean 0.003183
Std Dev 0.919

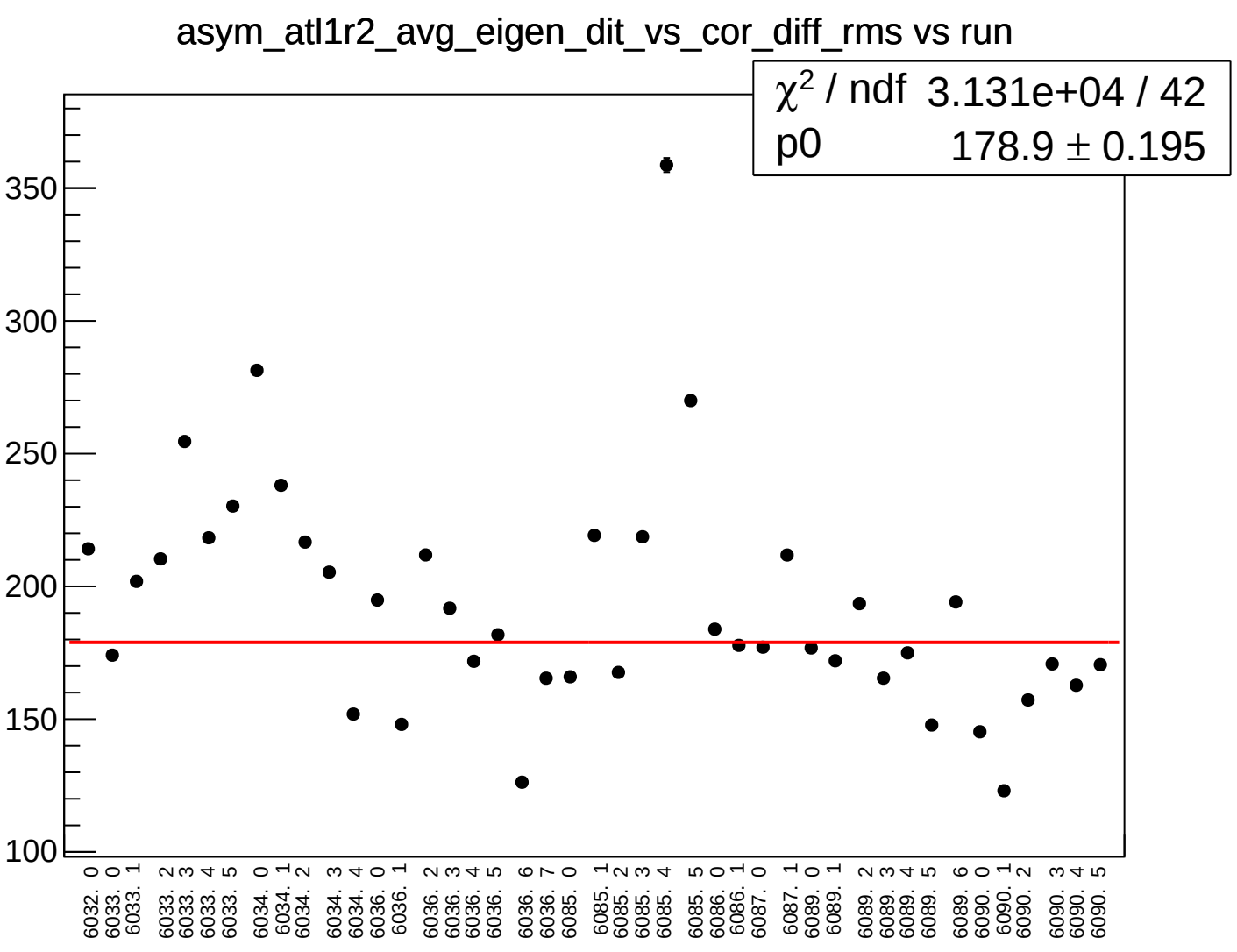

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.131e+04 / 42
p0 178.9 ± 0.195
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

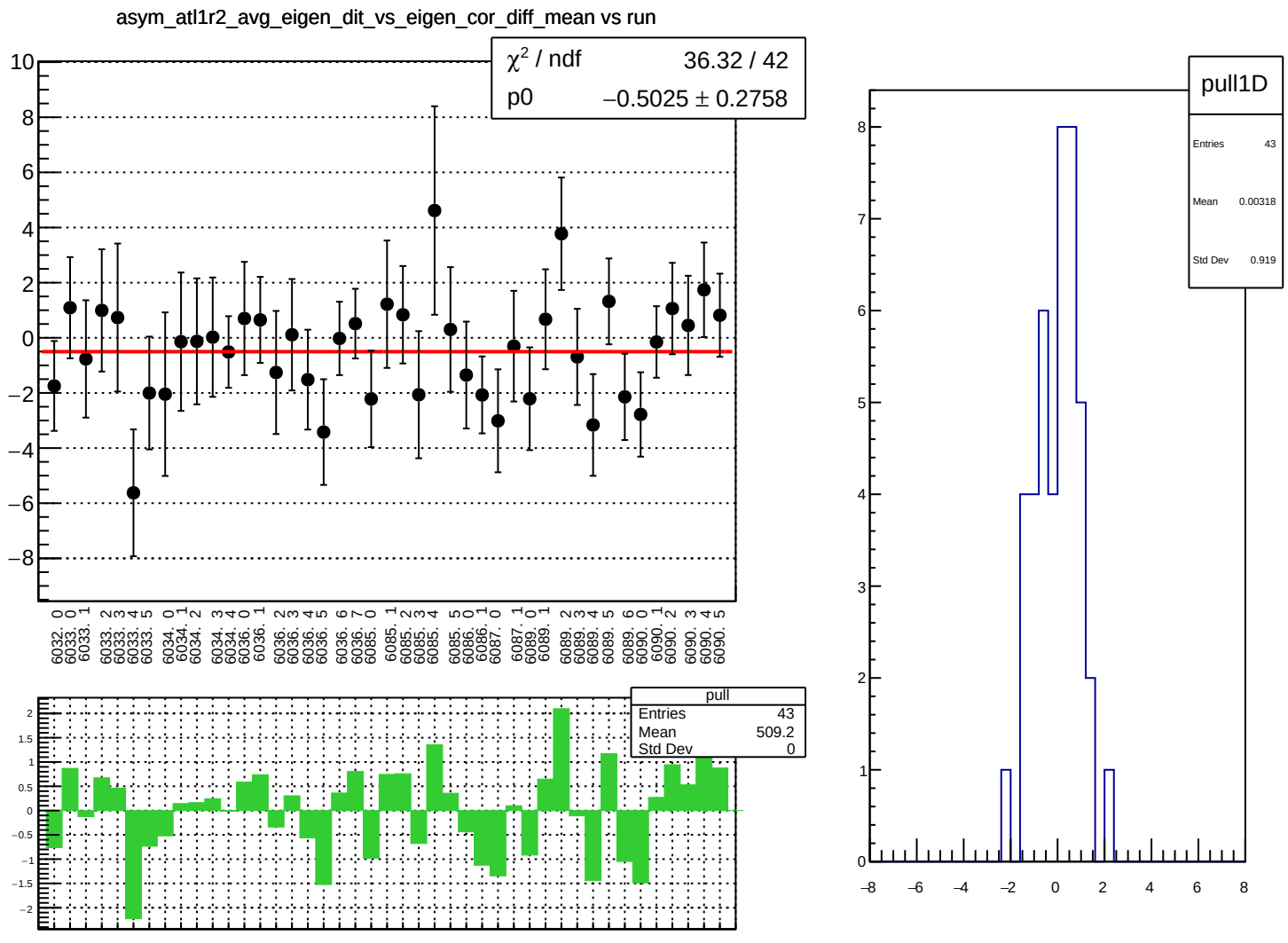

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.28 / 42
p0 1.601e−06 ± 2.174e−05
pull
Entries 43
Mean 36.37
Std Dev 0

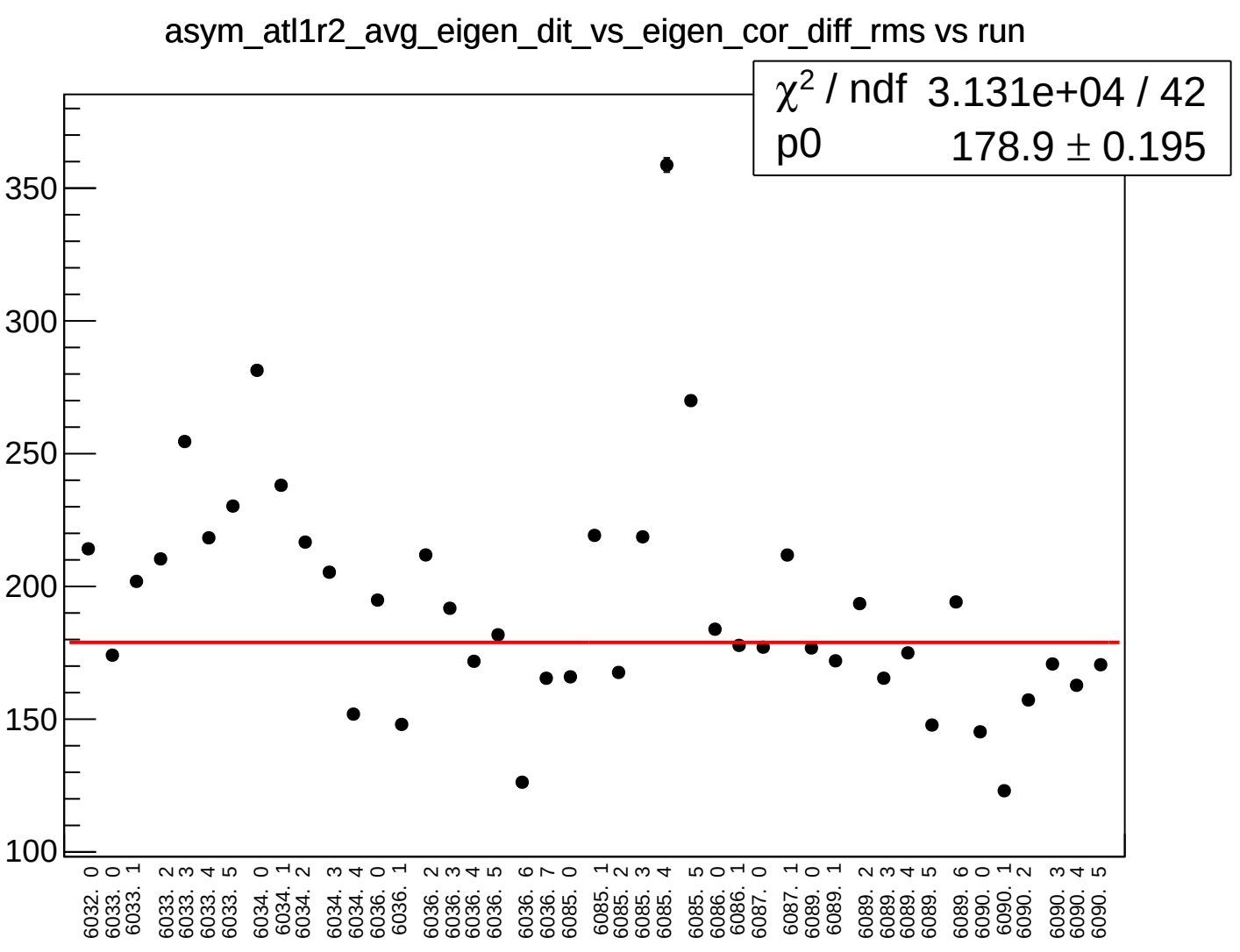

pull1D
Entries 43
Mean −0.04876
Std Dev 0.9666

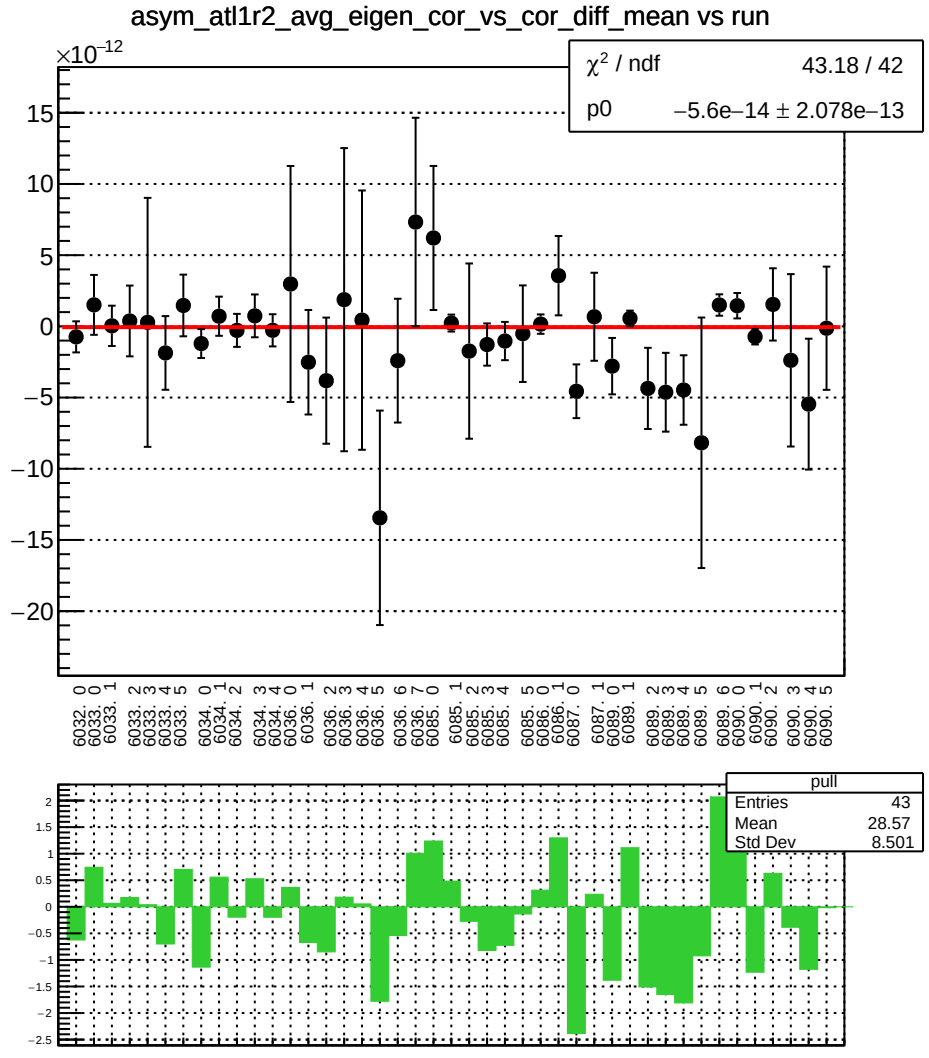

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.099e+04 / 42
p0 0.01377 ± 1.537e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

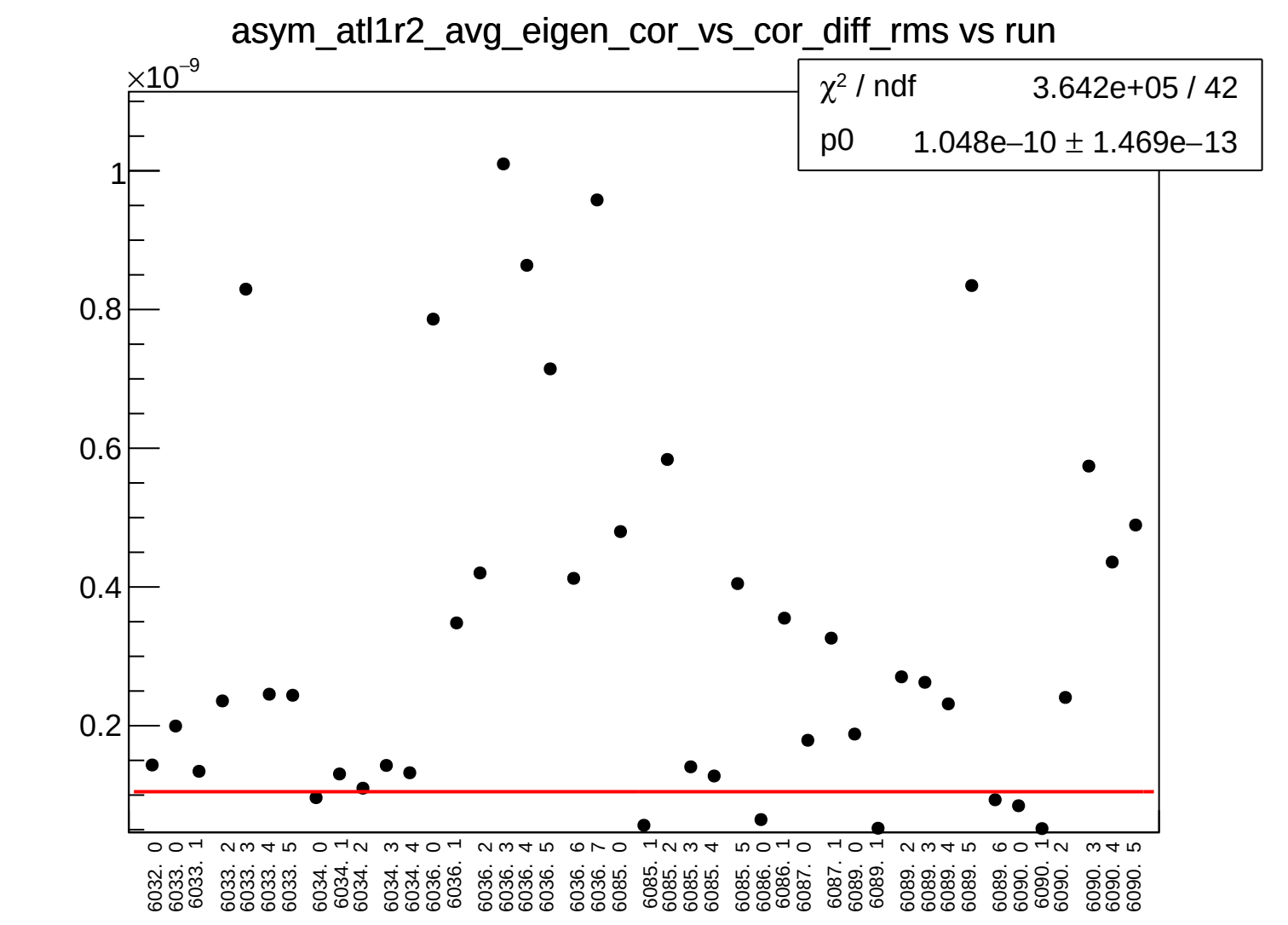

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.32 / 42
p0 −0.5025 ± 0.2758
pull
Entries 43
Mean 509.2
Std Dev 0
pull1D
Entries 43
Mean 0.00318
Std Dev 0.919

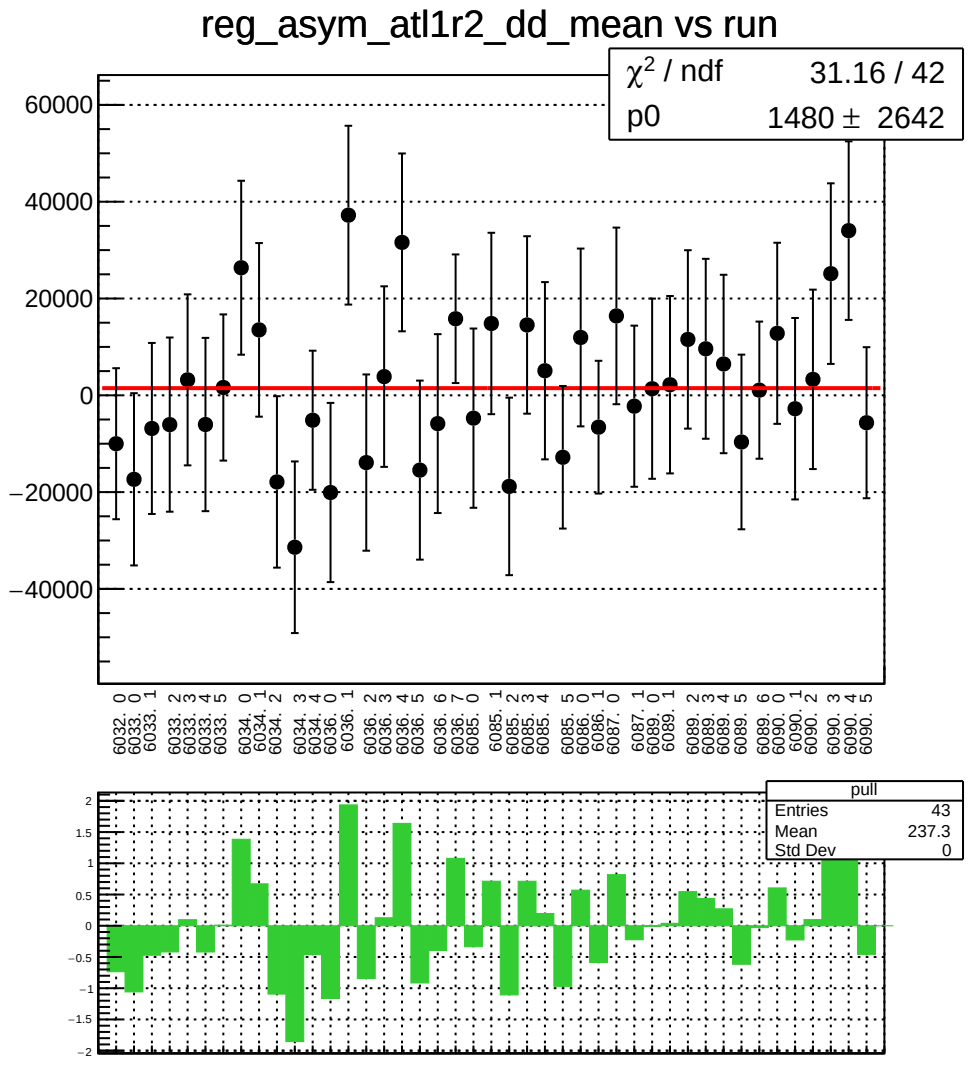

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.131e+04 / 42
p0 178.9 ± 0.195
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

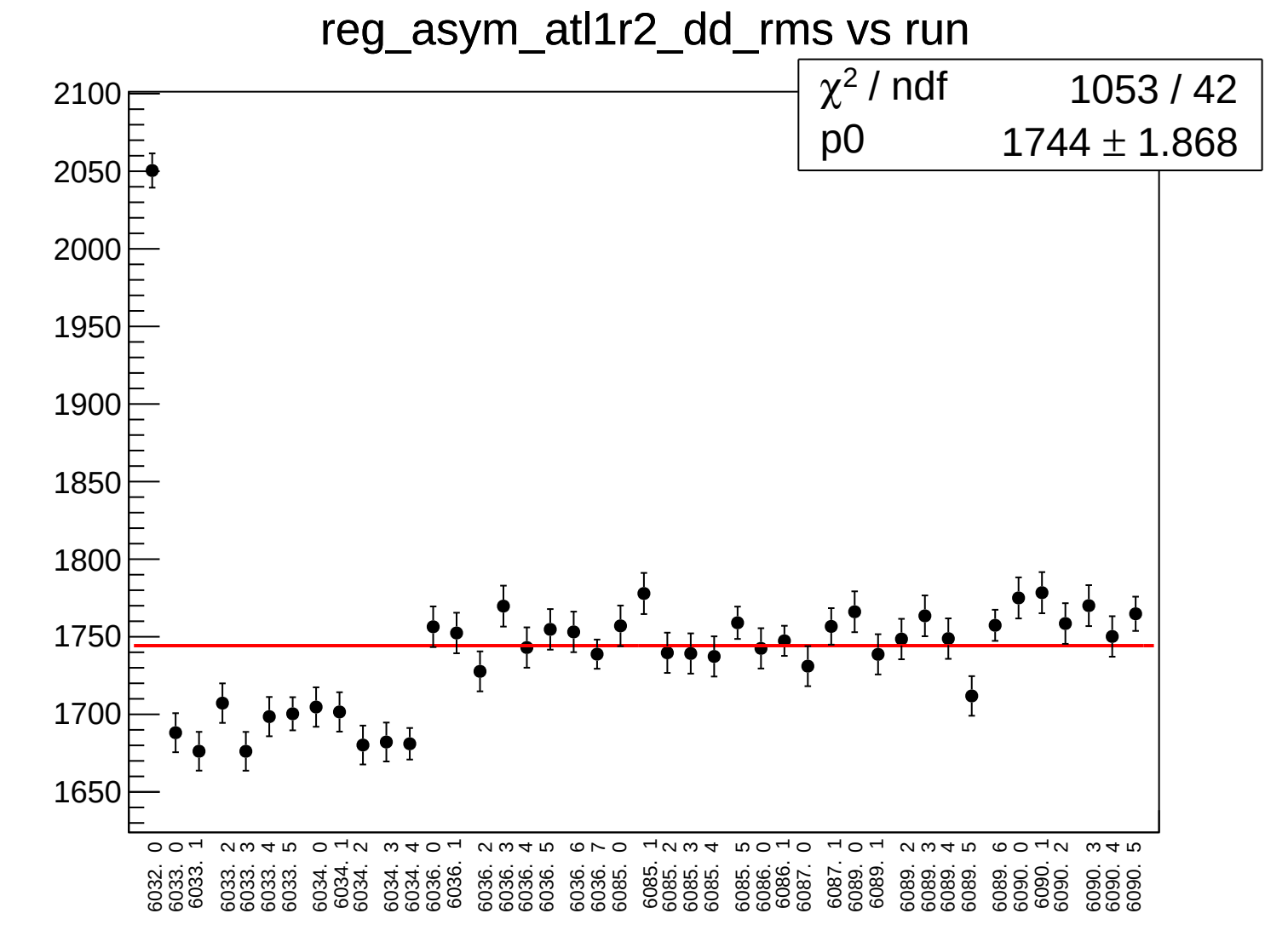

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.32 / 42
p0 −0.5025 ± 0.2758
pull
Entries 43
Mean 509.2
Std Dev 0
pull1D
Entries 43
Mean 0.00318
Std Dev 0.919

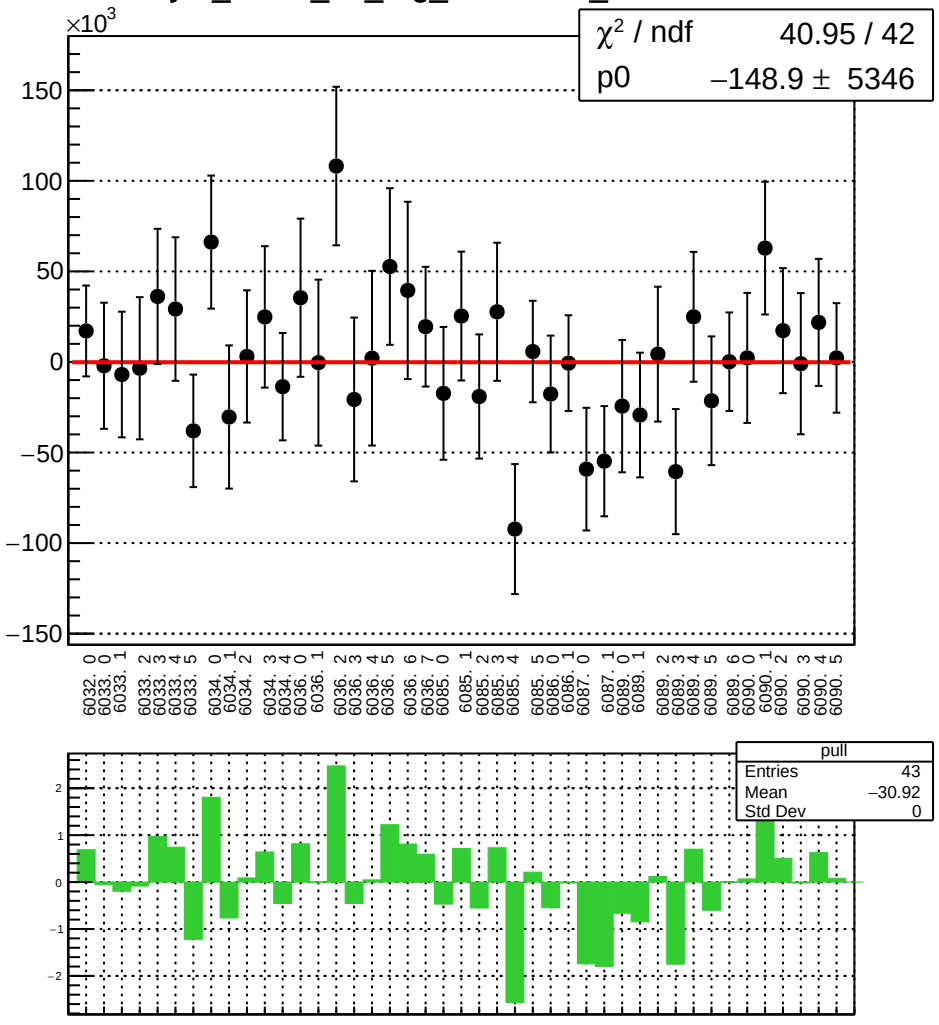

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.131e+04 / 42
p0 178.9 ± 0.195
350
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

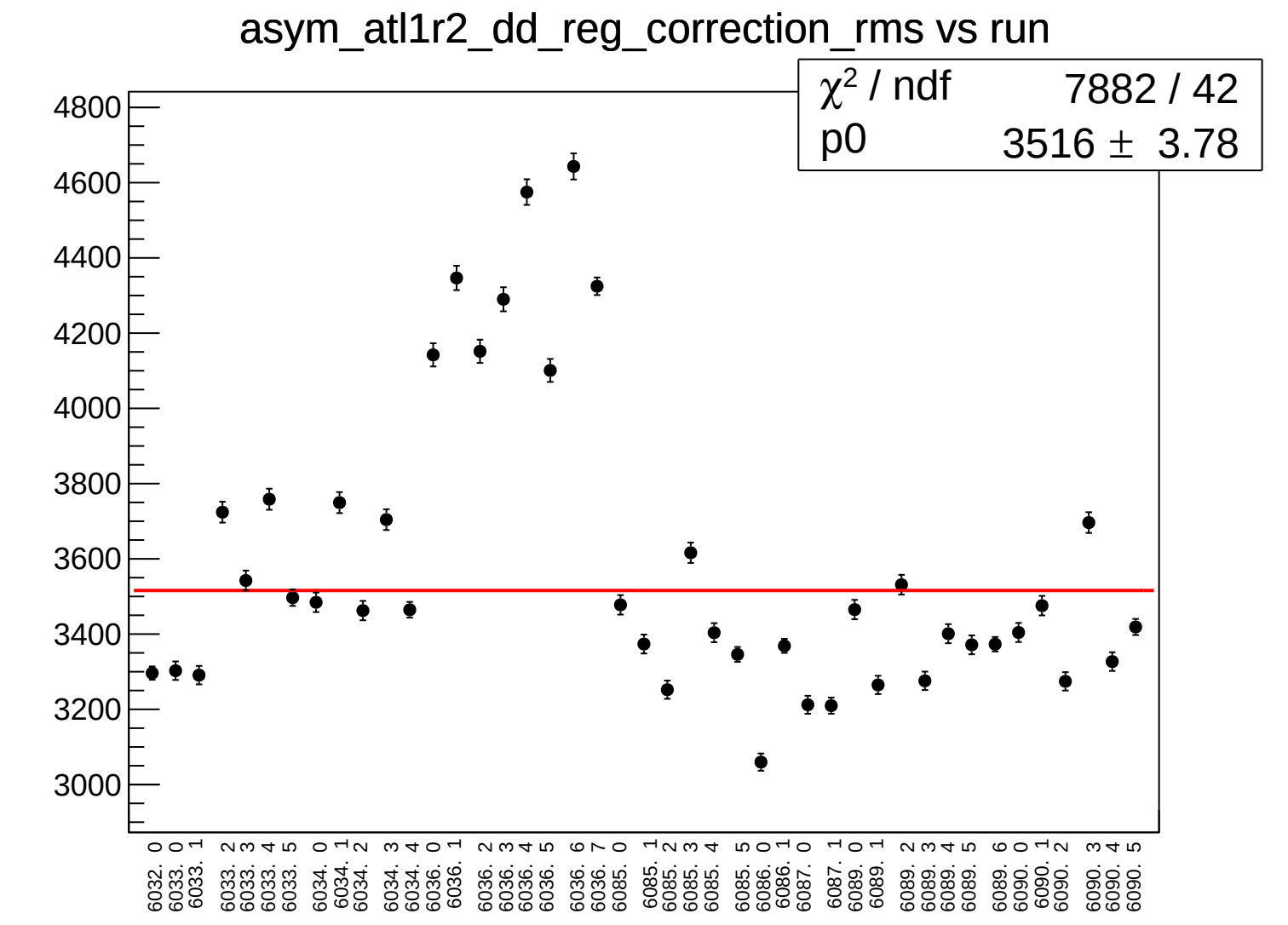

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 43.18 / 42
p0 −5.6e−14 ± 2.078e−13
15
10
5
0
−5
−10
−15
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 28.57
Std Dev 8.501
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.1773
Std Dev 0.9862
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

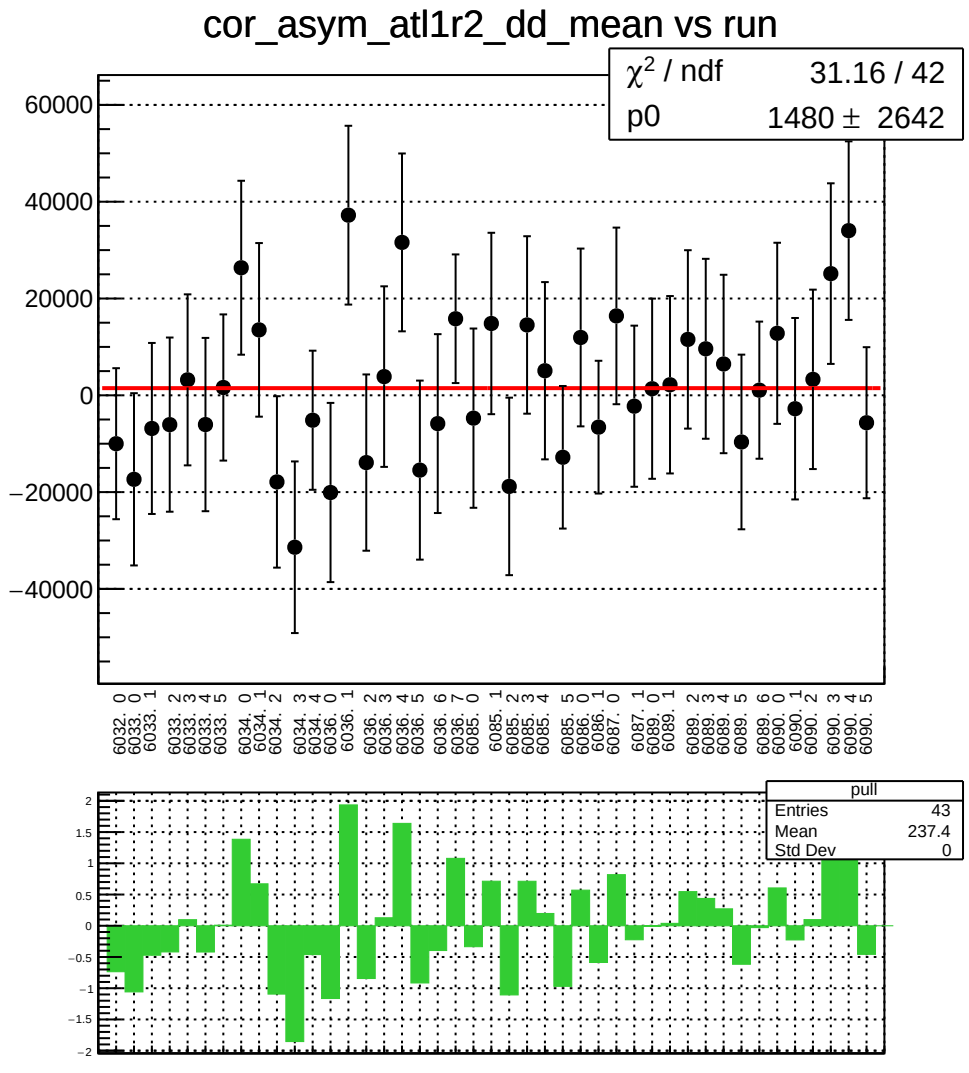

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.642e+05 / 42
p0 1.048e−10 ± 1.469e−13
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

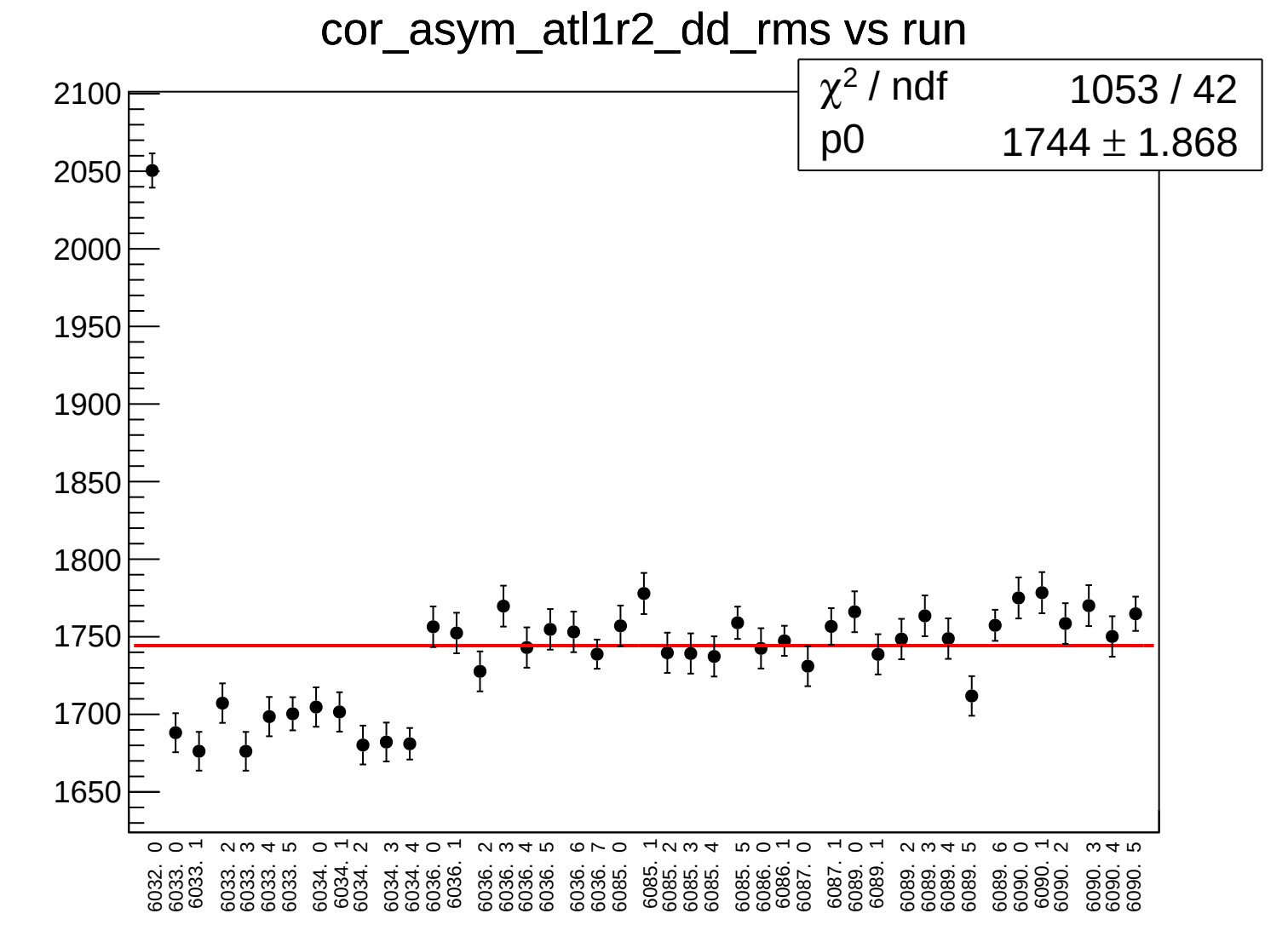

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 31.16 / 42
p0 1480 ± 2642
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 237.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01366
Std Dev 0.8512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

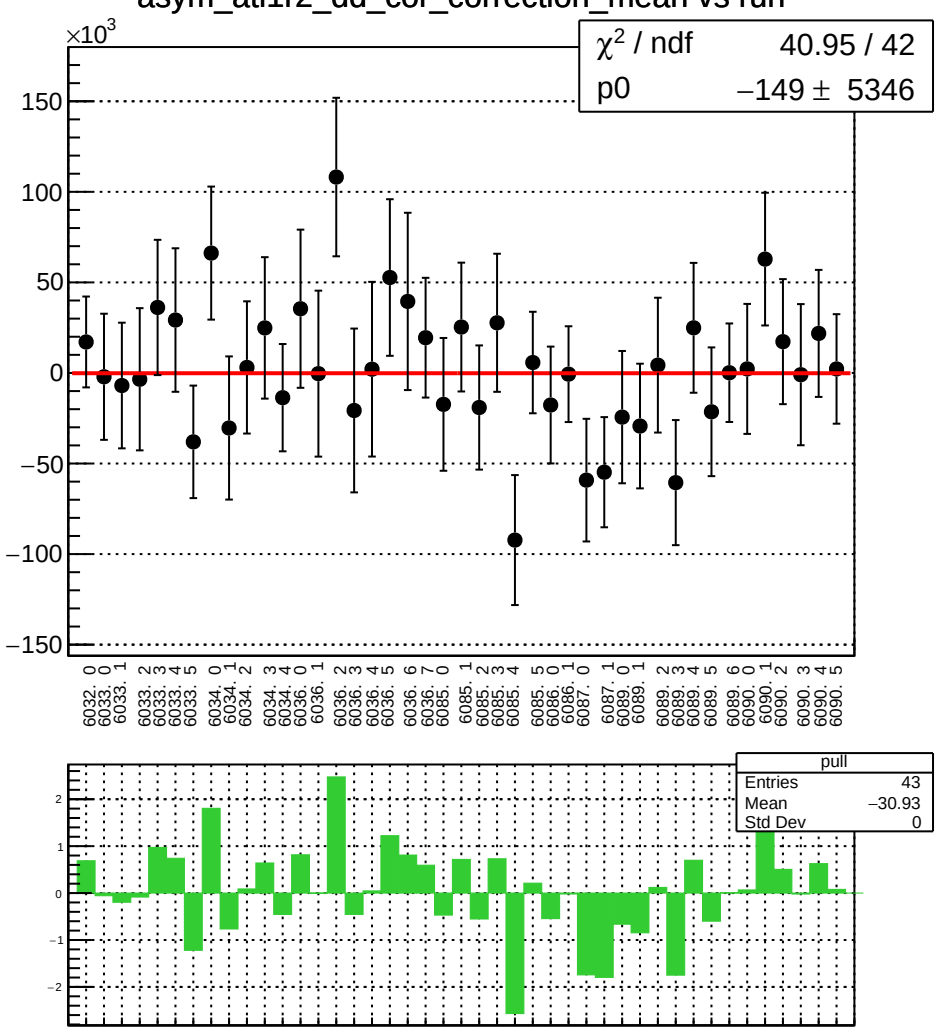

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1053 / 42
p0 1744 ± 1.868
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

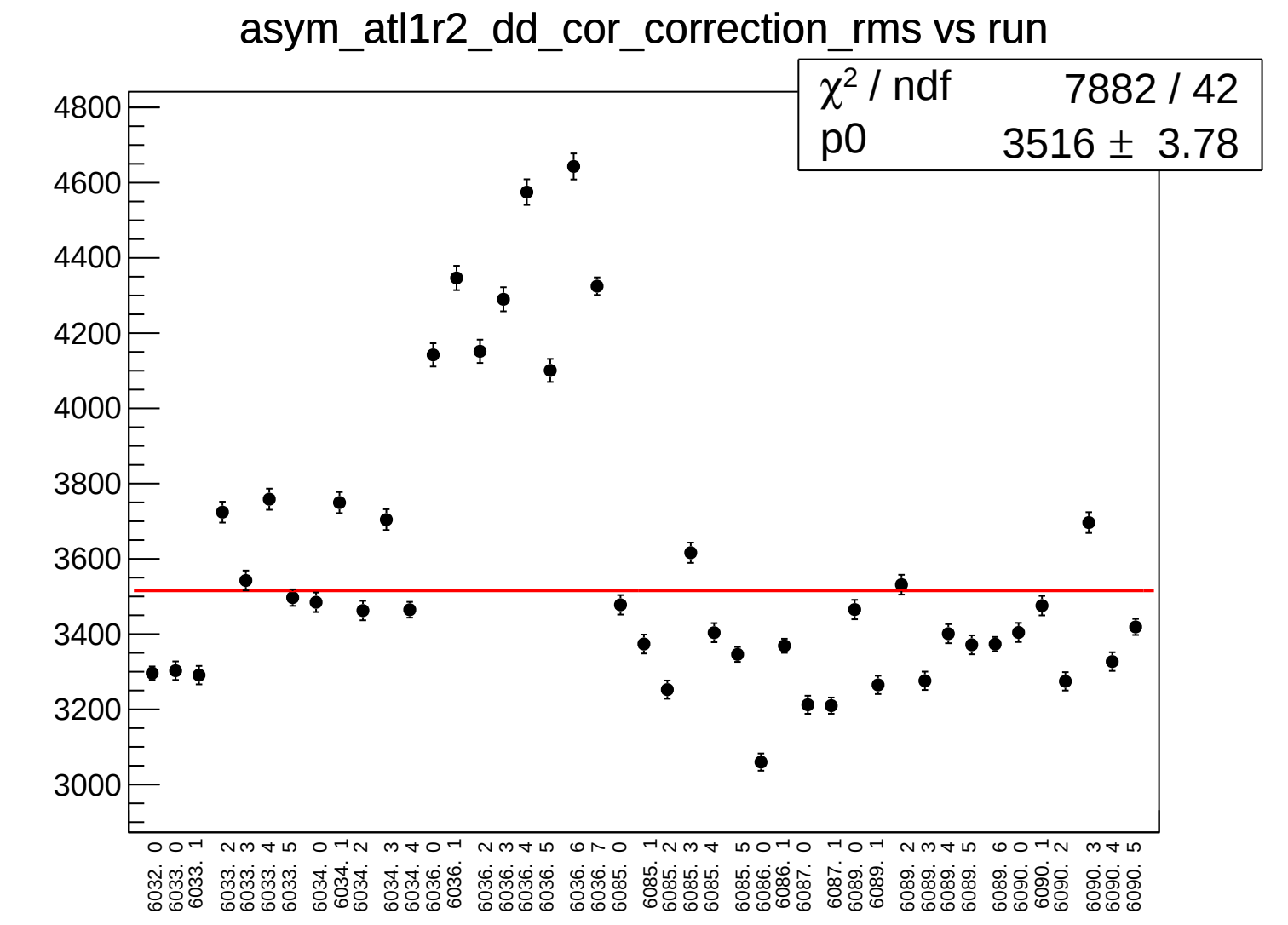

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.95 / 42
p0 −148.9 ± 5346
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −30.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03666
Std Dev 0.9752
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 7882 / 42
p0 3516 ± 3.78
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 31.16 / 42
p0 1480 ± 2642
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 237.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01366
Std Dev 0.8512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1053 / 42
p0 1744 ± 1.868
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.95 / 42
p0 −149 ± 5346
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −30.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03666
Std Dev 0.9752
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 7882 / 42
p0 3516 ± 3.78
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
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6090. 2
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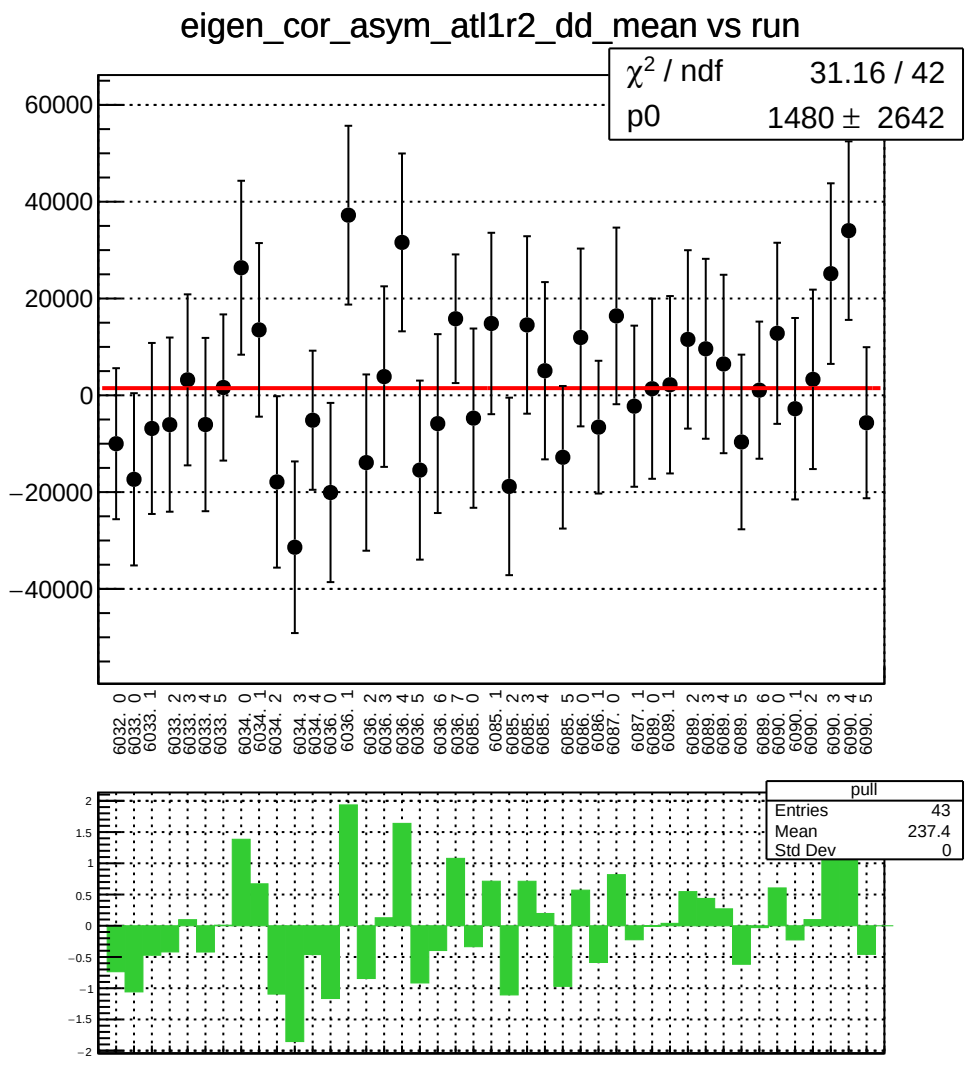
6090. 4
6090. 5


eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 31.16 / 42
p0 1480 ± 2642
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
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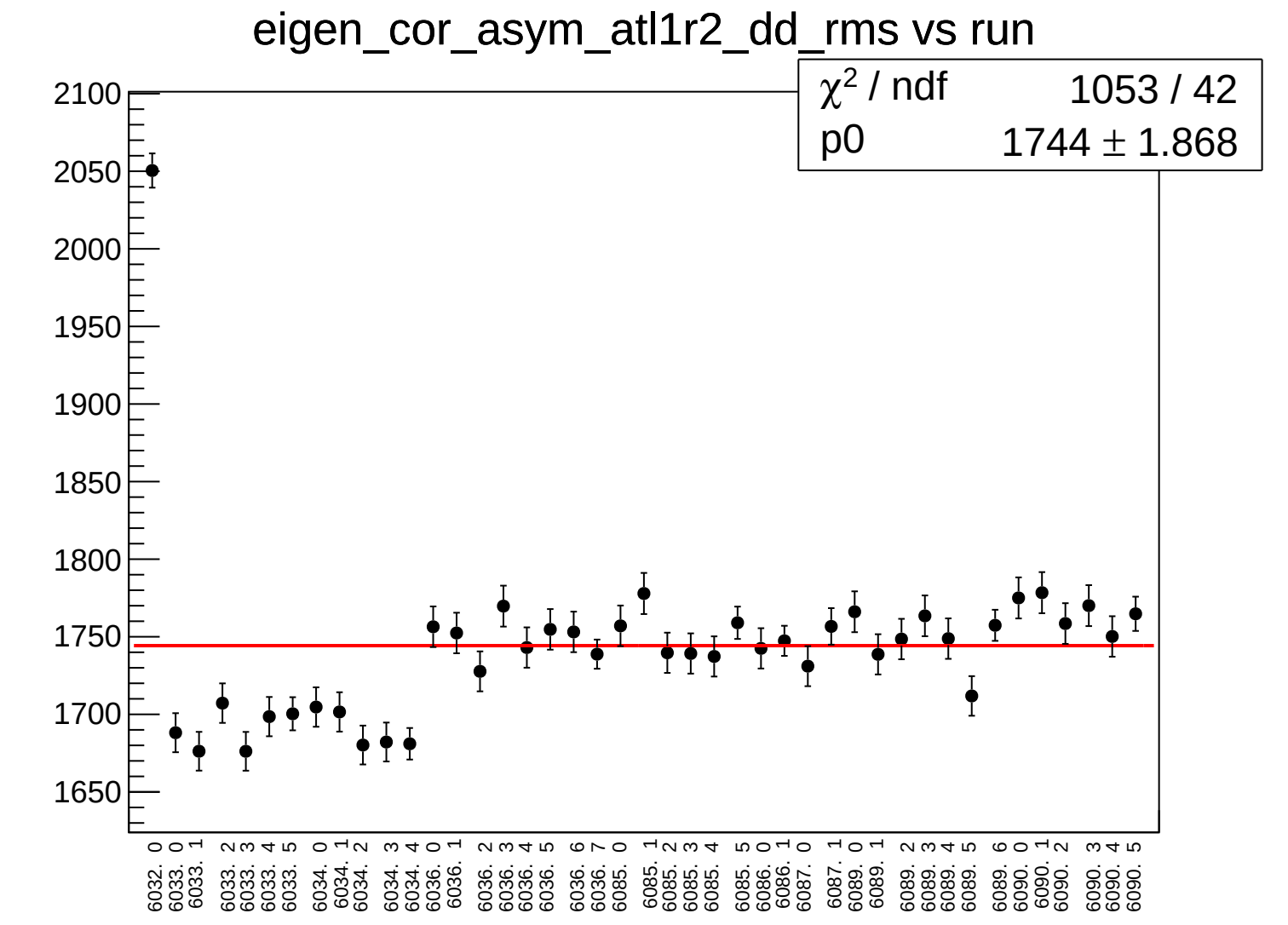
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 237.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01366
Std Dev 0.8512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1053 / 42
p0 1744 ± 1.868
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 4
6089. 5
6089. 6
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6090. 1
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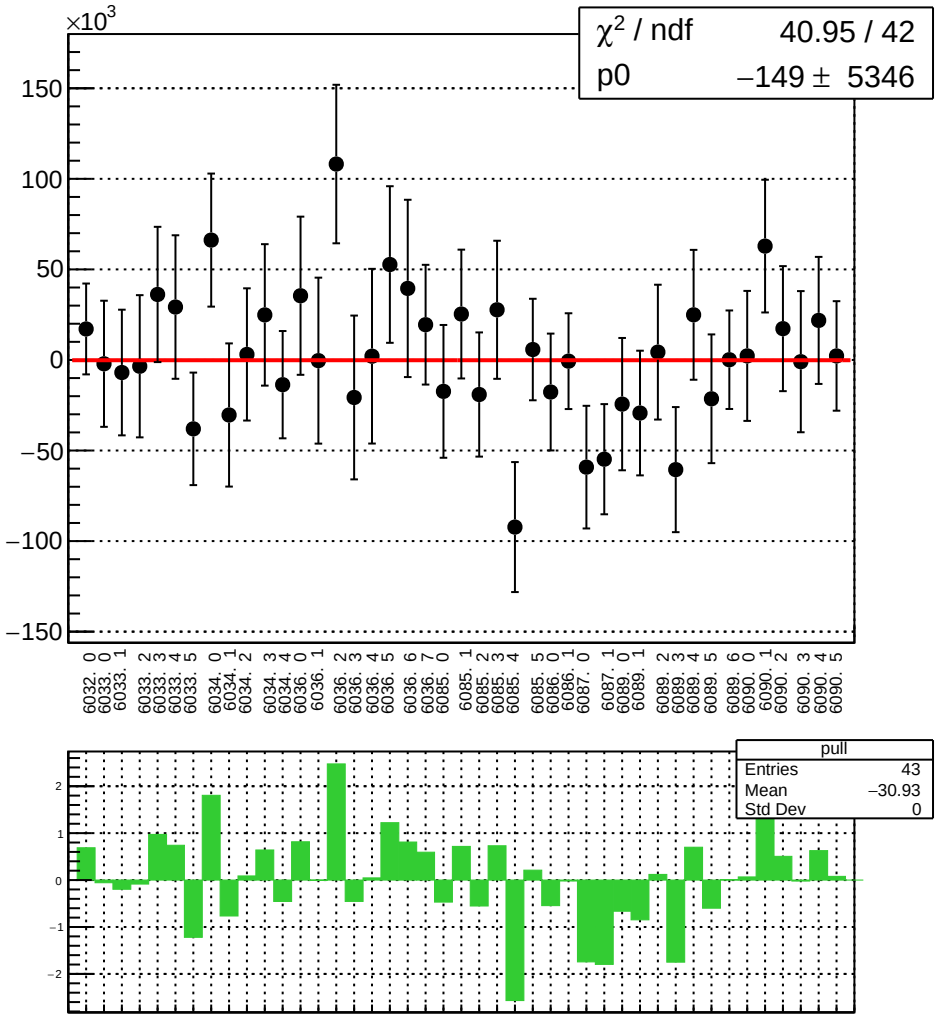
6090. 3
6090. 4
6090. 5


asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.95 / 42
p0 −149 ± 5346
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
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6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
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6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −30.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03666
Std Dev 0.9752
9
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−6
−4
−2
0
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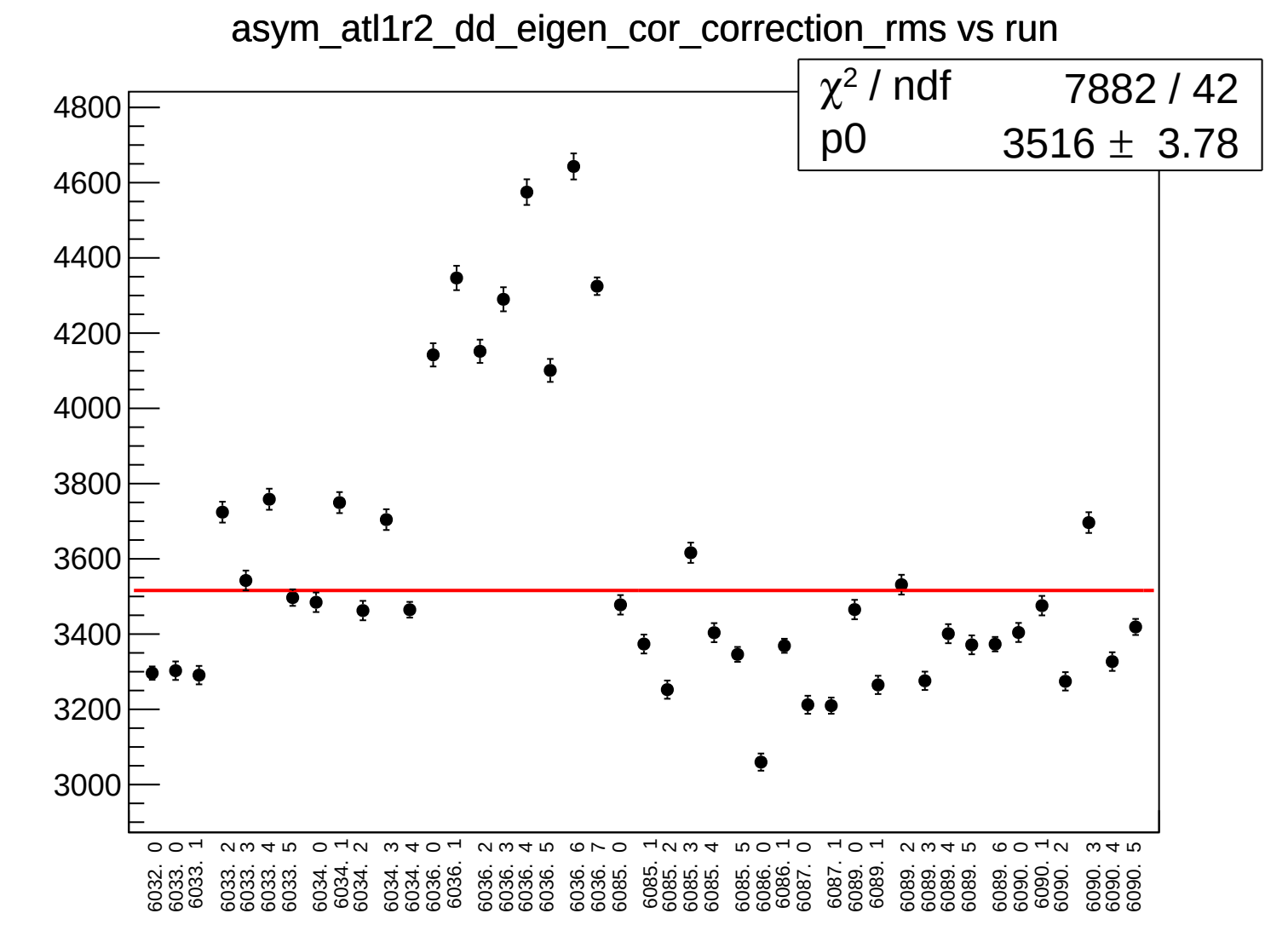
asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7882 / 42
p0 3516 ± 3.78
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
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6090. 0
6090. 1
6090. 2
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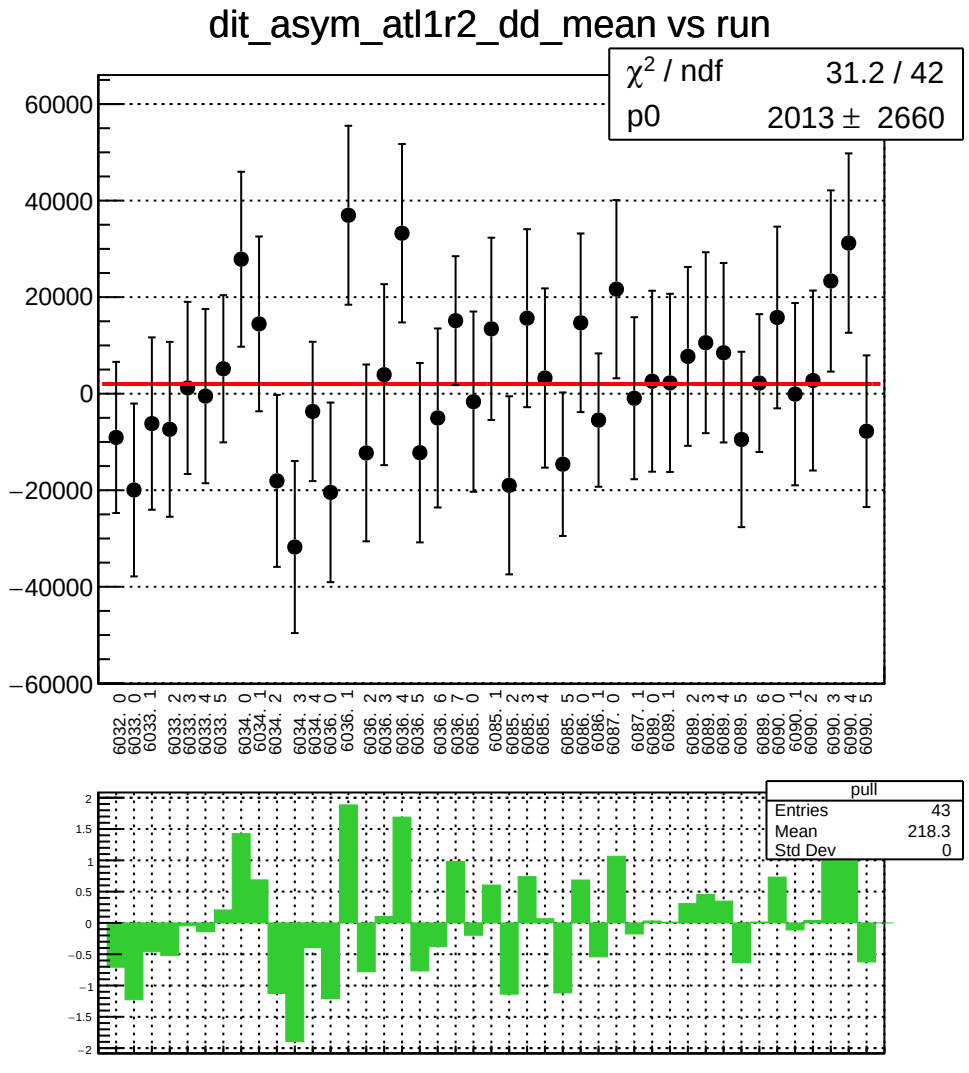
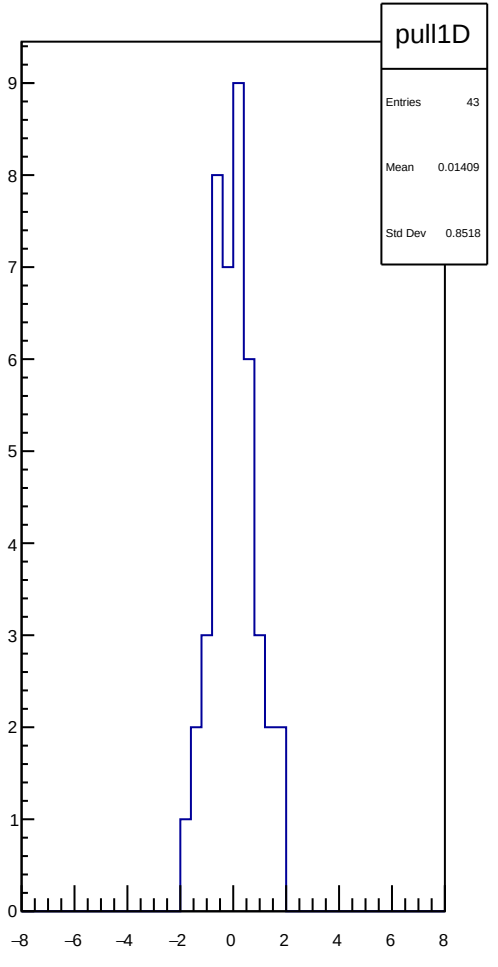
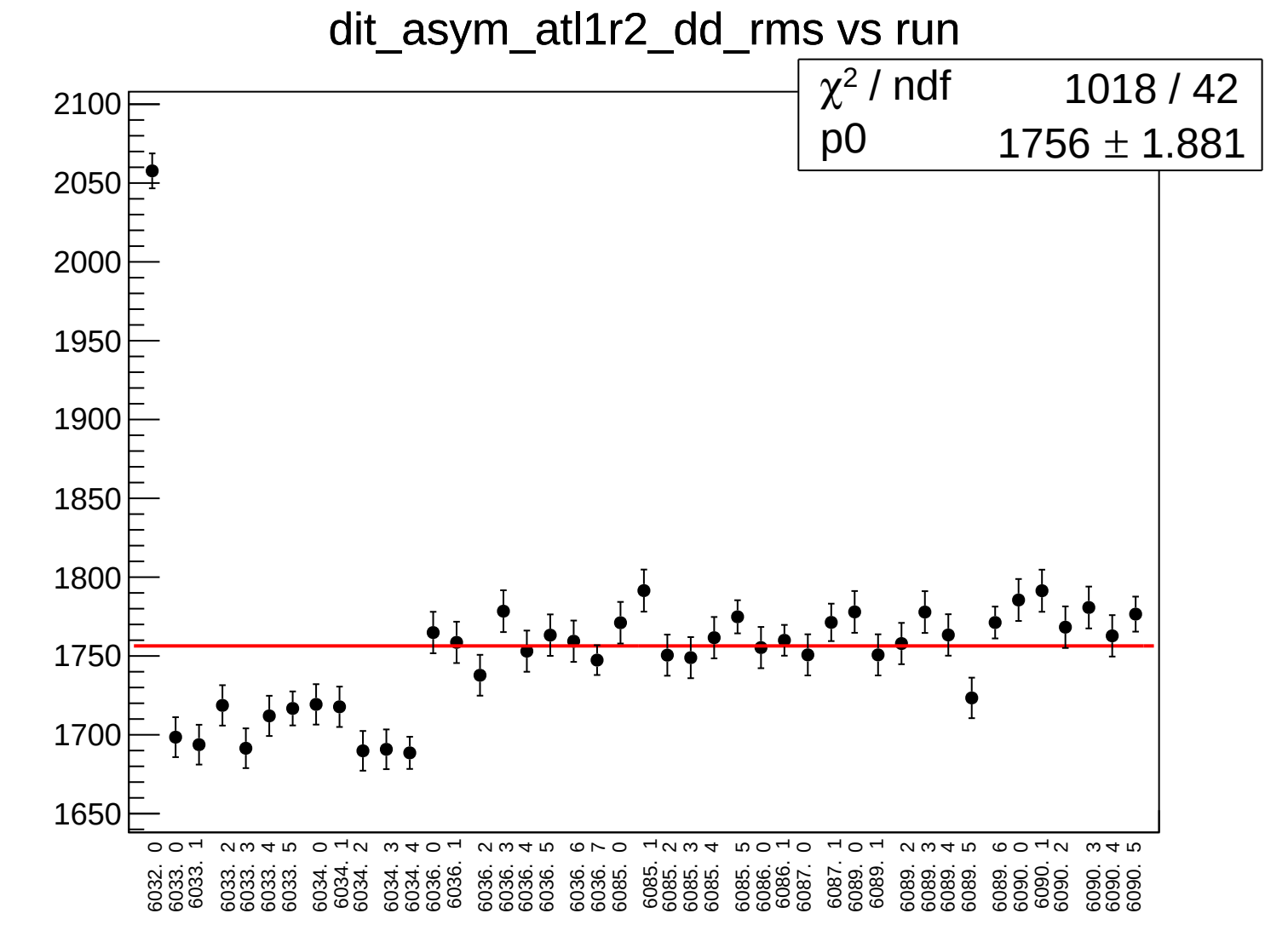
6090. 4
6090. 5


dit_asym_atl1r2_dd_mean vs run
χ² / ndf 31.2 / 42
p0 2013 ± 2660
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 218.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.01409
Std Dev 0.8518
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1018 / 42
p0 1756 ± 1.881
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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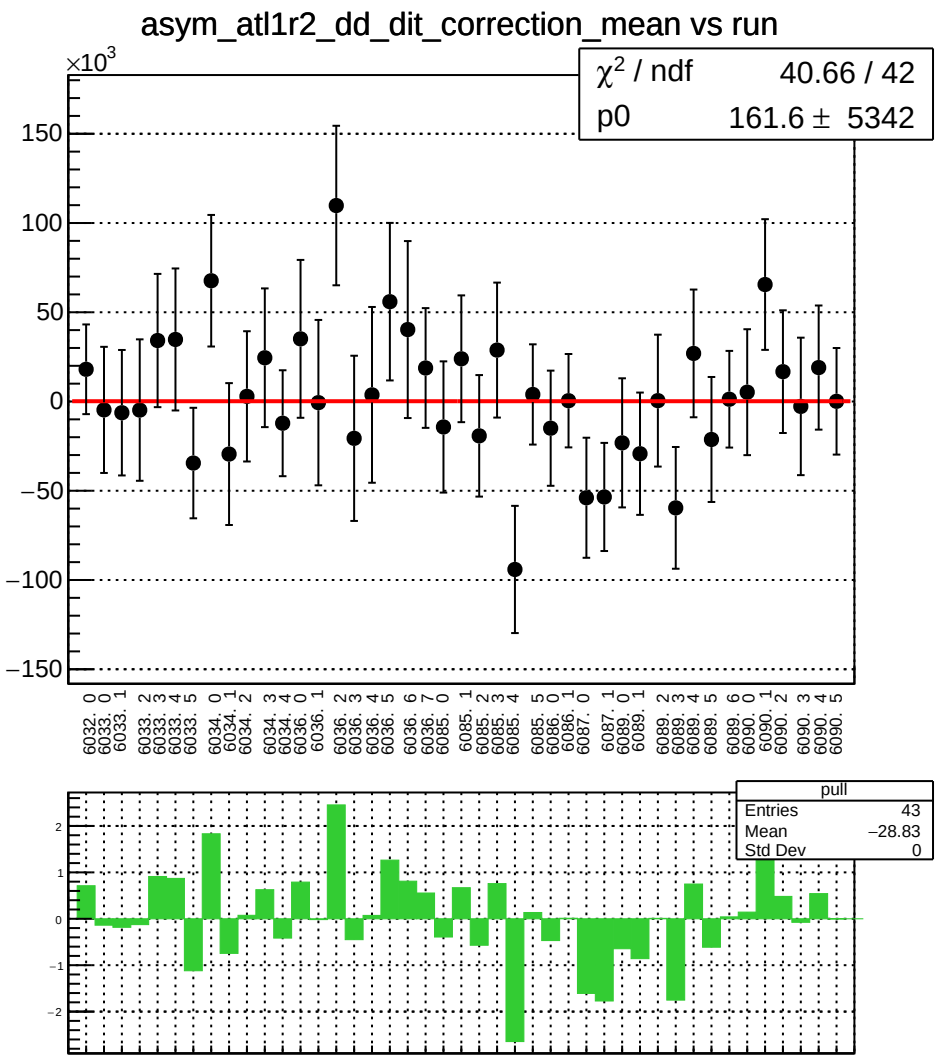
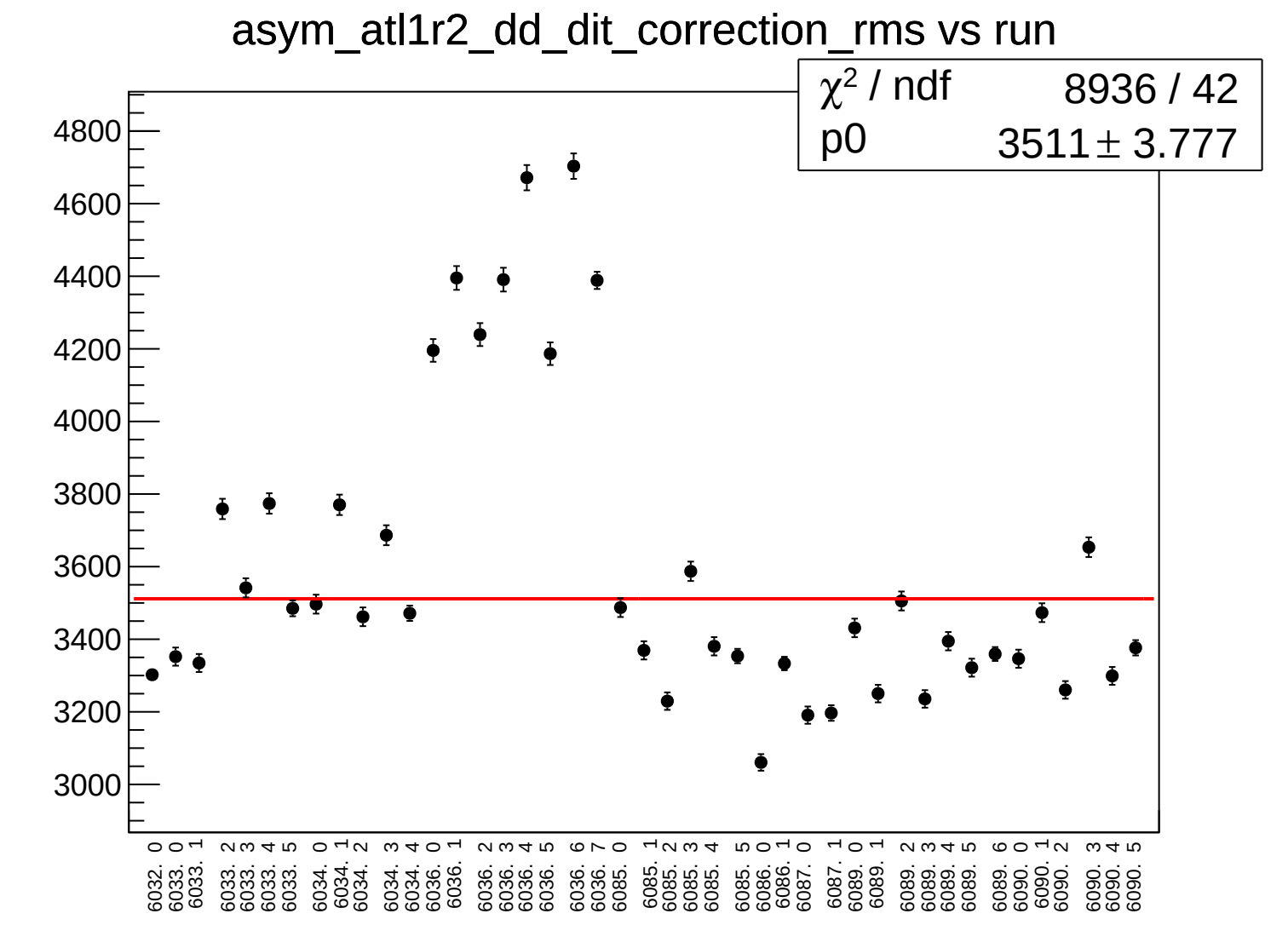
6090. 5


asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 40.66 / 42
p0 161.6 ± 5342
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03959
Std Dev 0.9717
9
8
7
6
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 8936 / 42
p0 3511 ± 3.777
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
6090. 0
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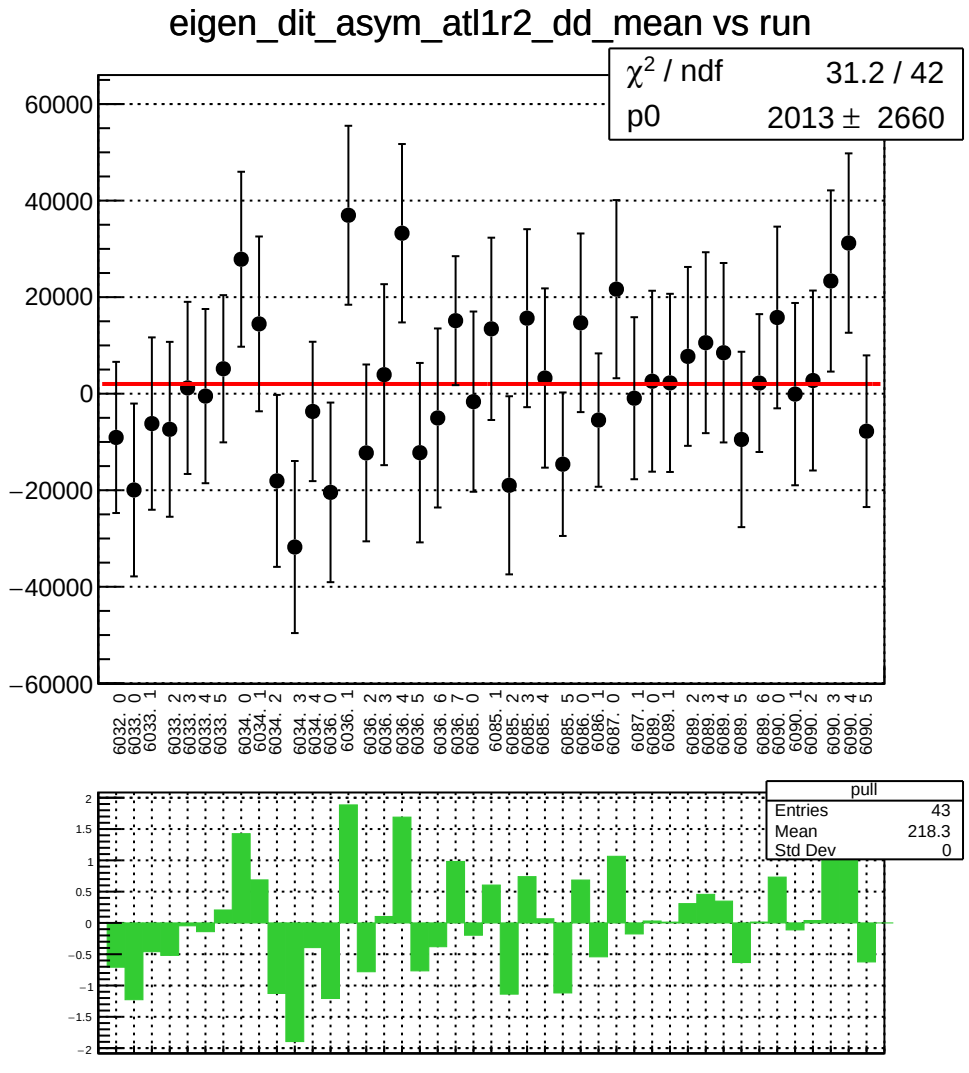
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 31.2 / 42
p0 2013 ± 2660
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
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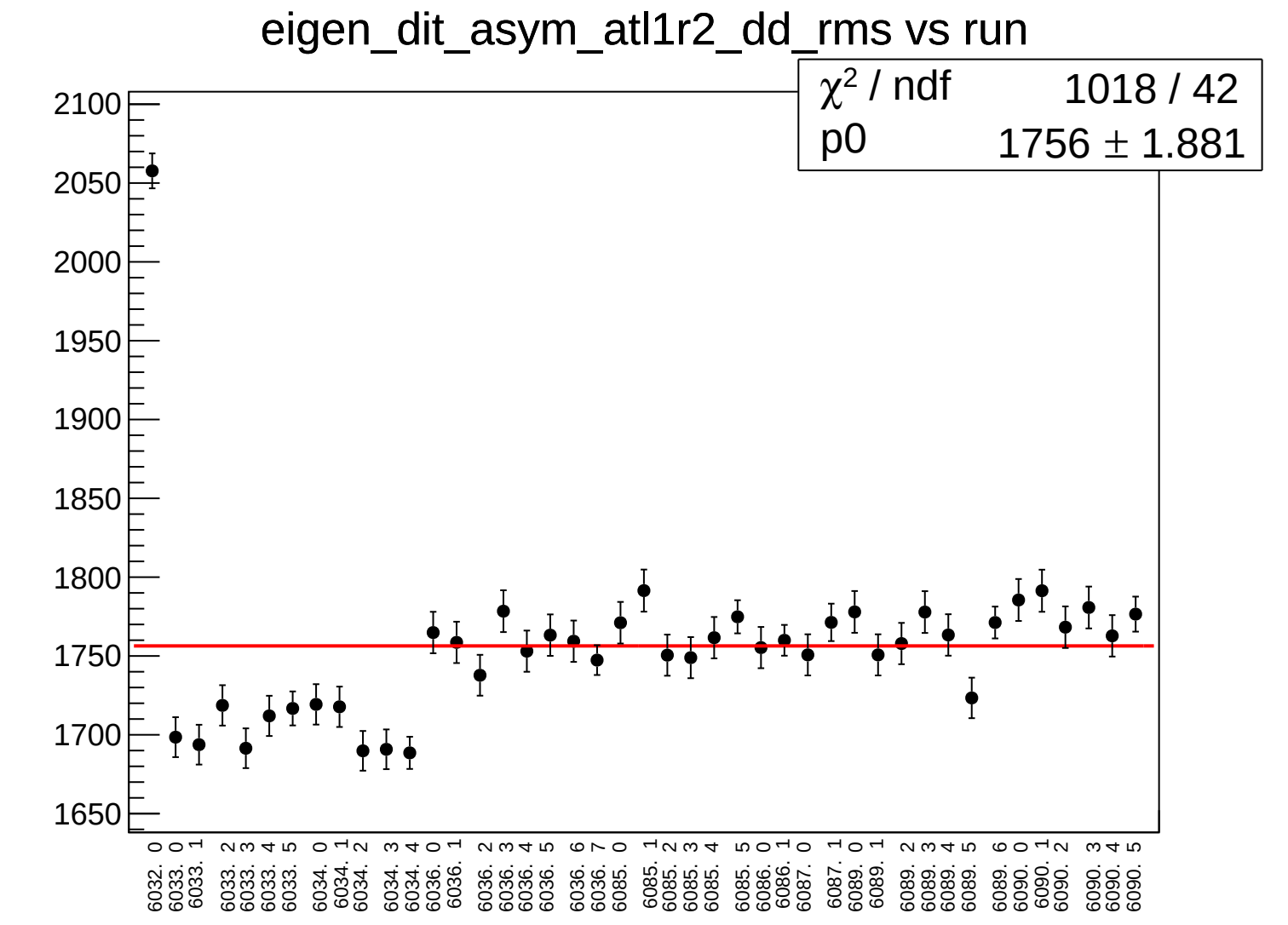
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 218.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01409
Std Dev 0.8518
9
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 1018 / 42
p0 1756 ± 1.881
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
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6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
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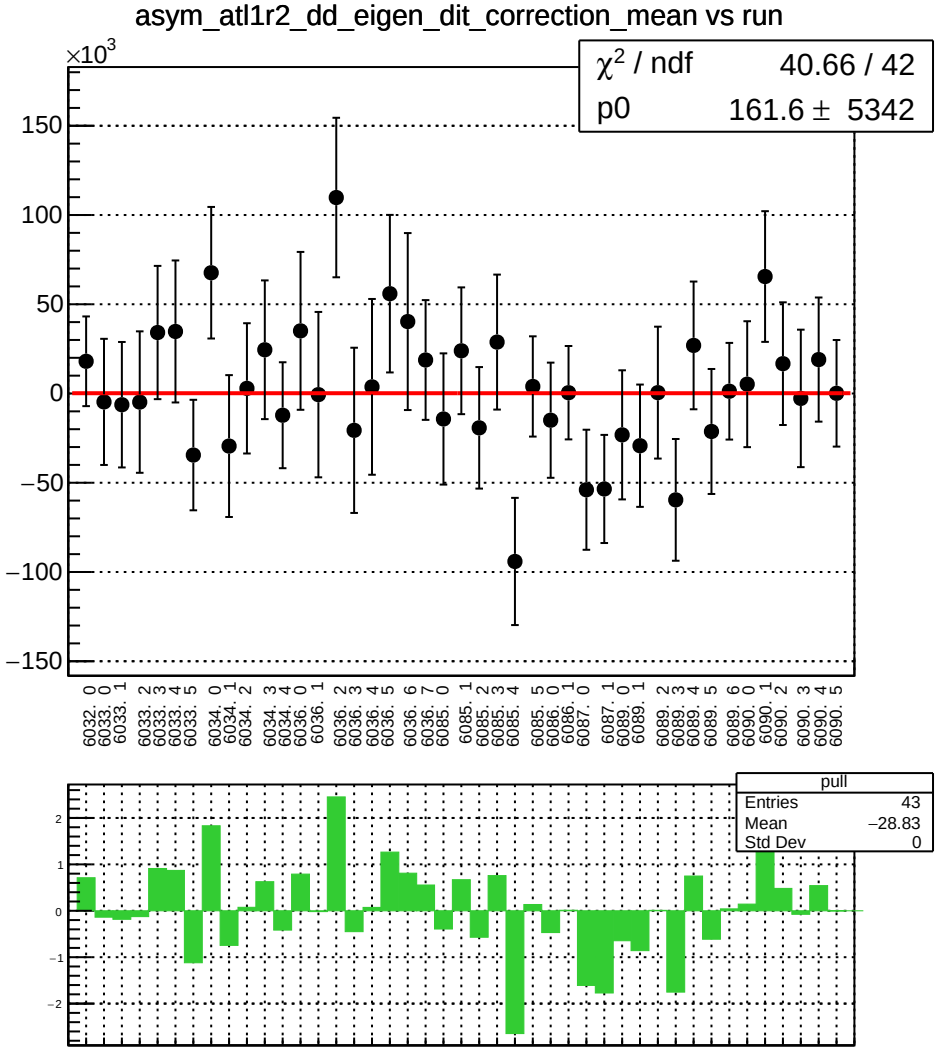
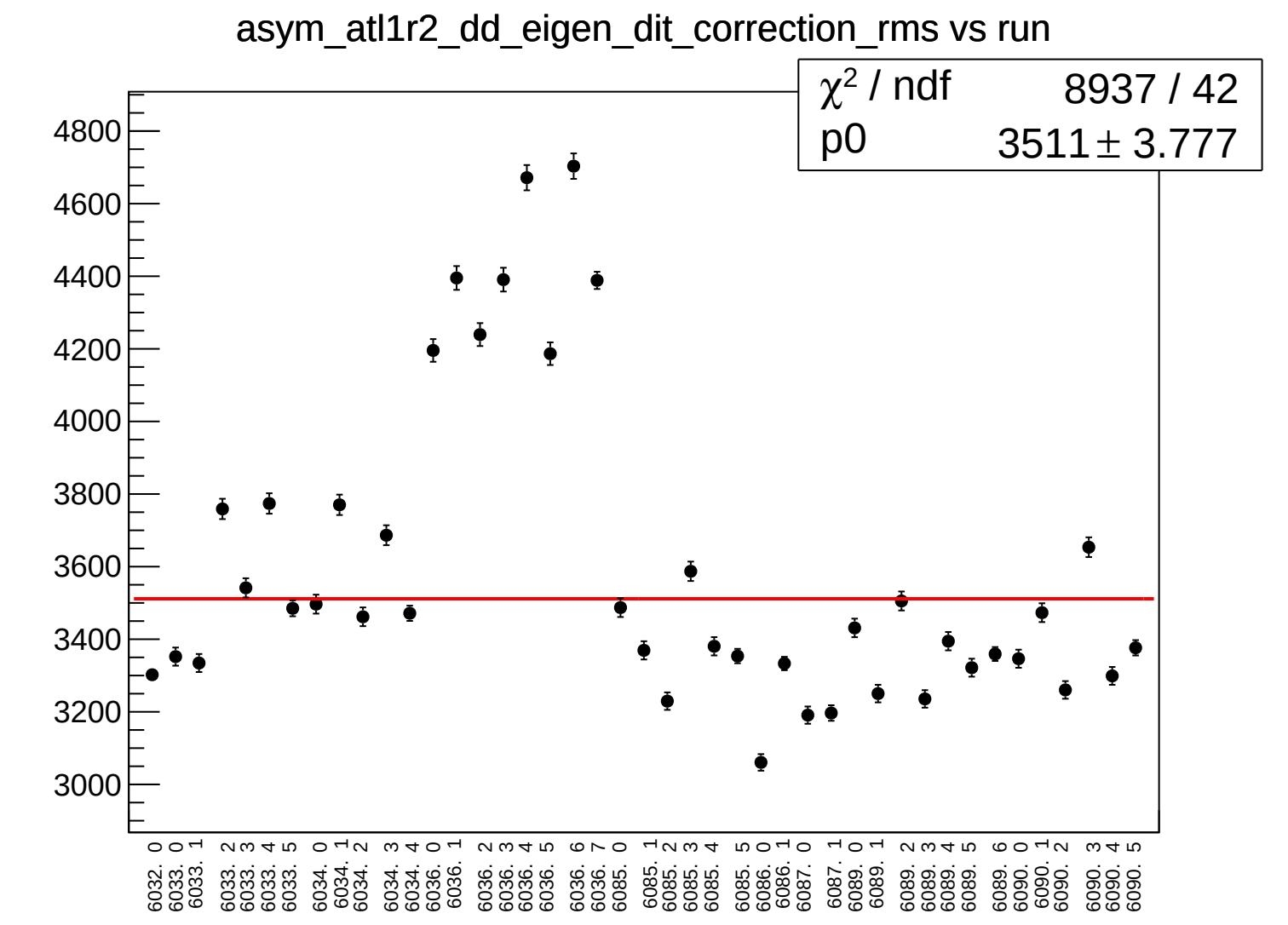
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 40.66 / 42
p0 161.6 ± 5342
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03959
Std Dev 0.9717
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 8937 / 42
p0 3511 ± 3.777
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
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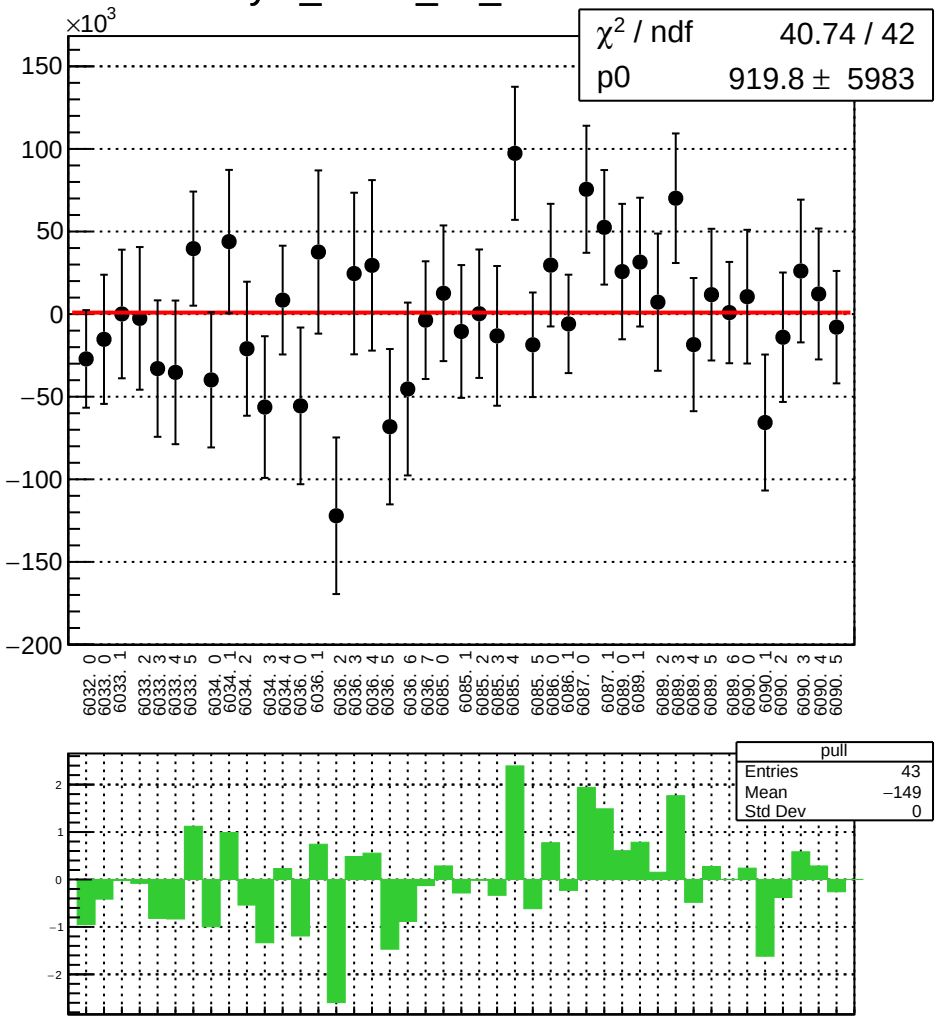
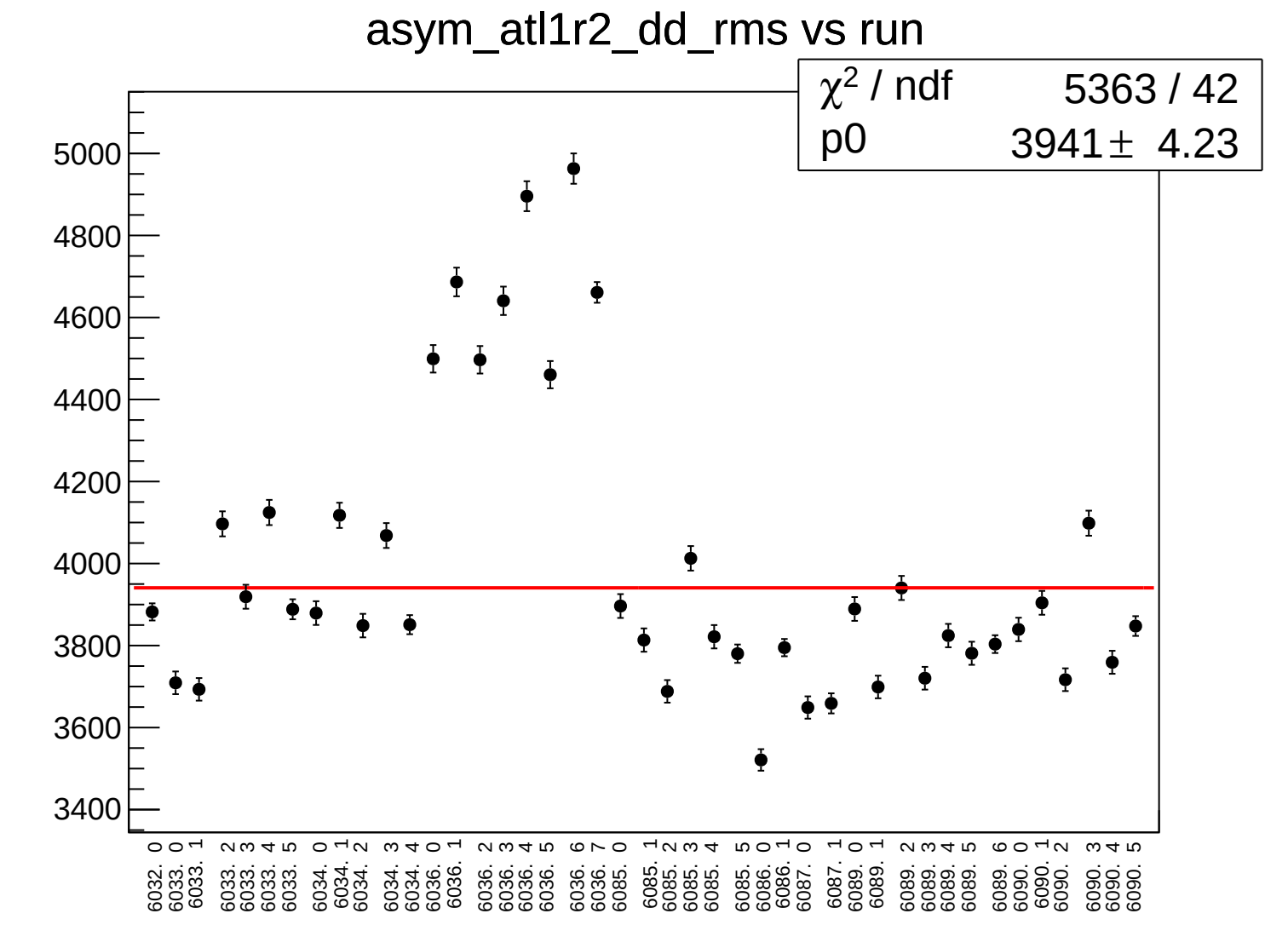
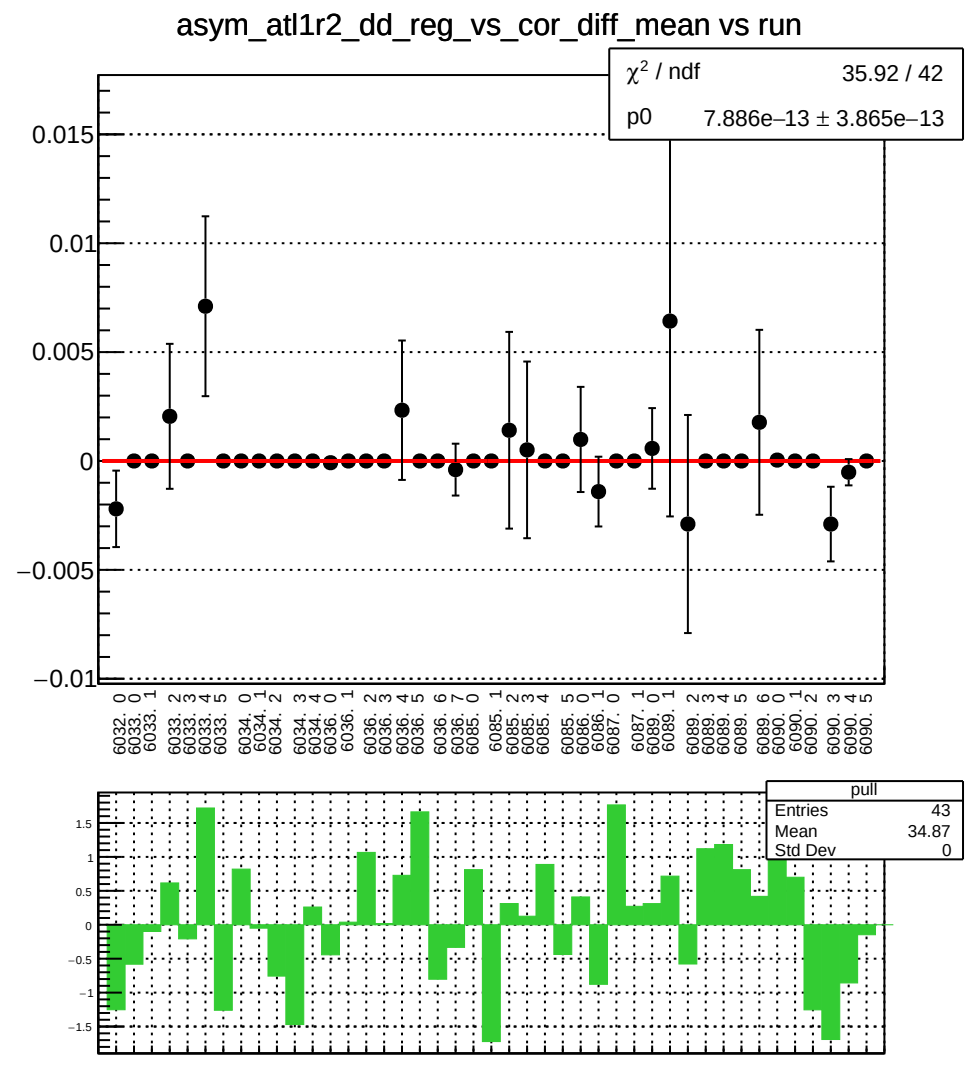
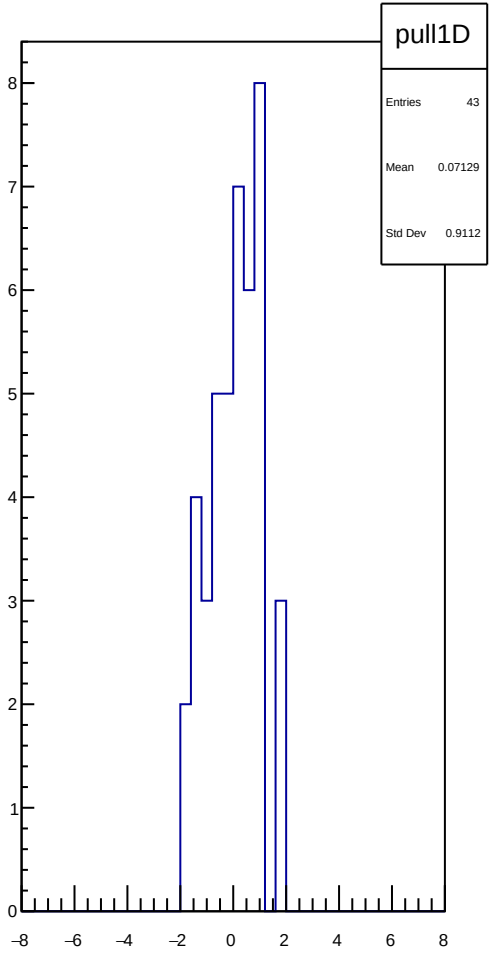
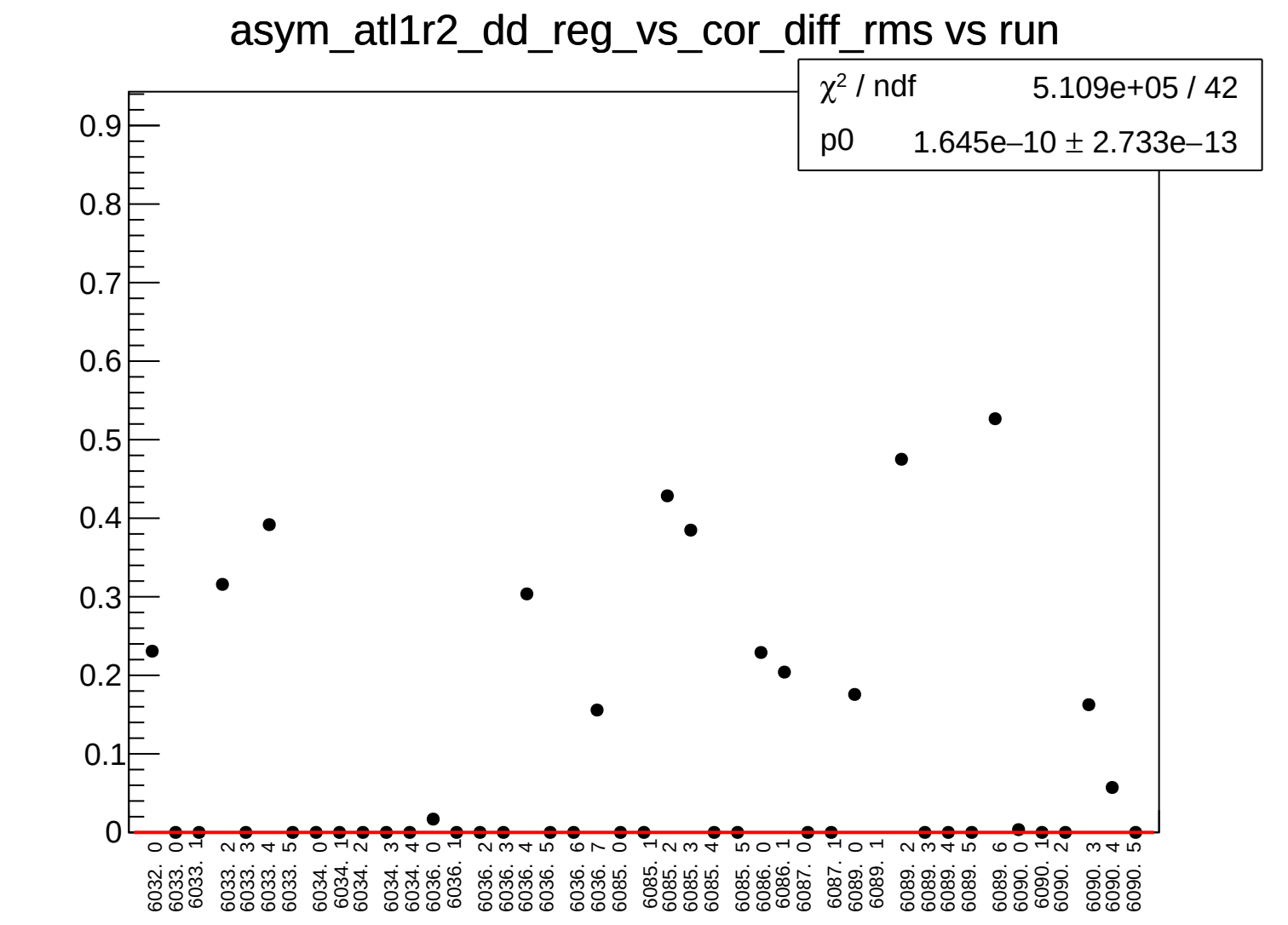
6090. 4
6090. 5

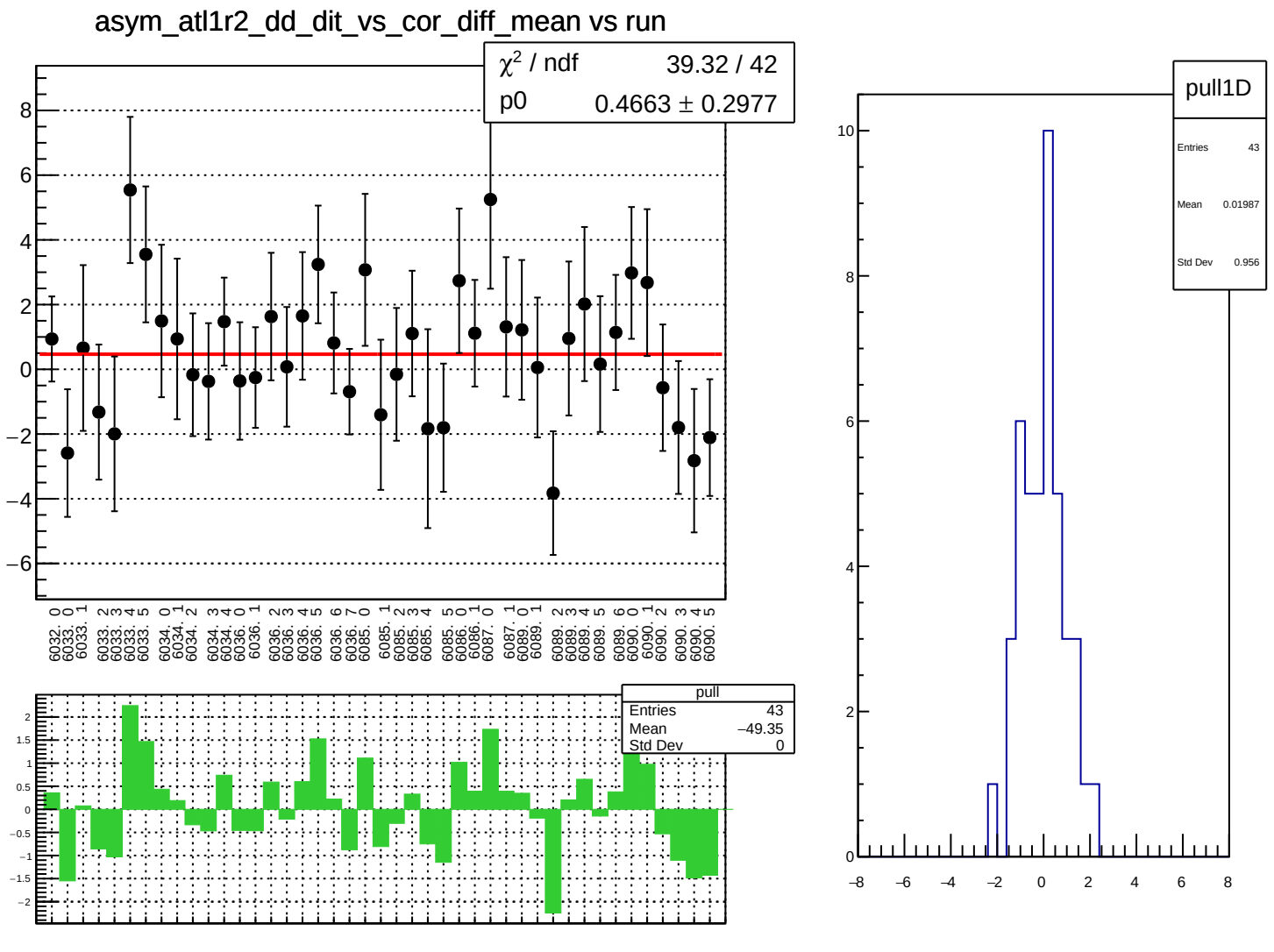

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 40.74 / 42
p0 919.8 ± 5983
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −149
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01811
Std Dev 0.9732
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

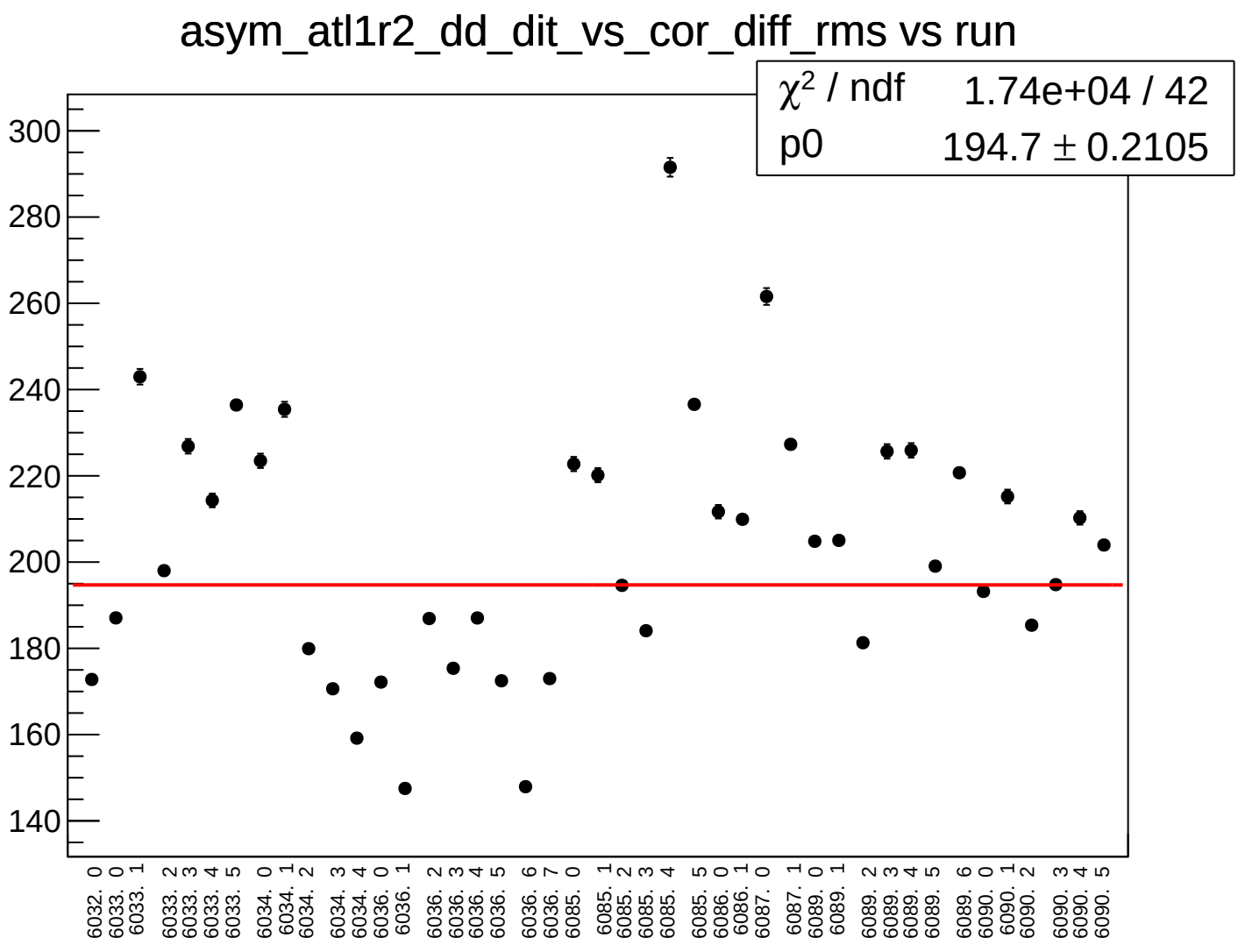

asym_atl1r2_dd_rms vs run
χ² / ndf 5363 / 42
p0 3941 ± 4.23
5000
4800
4600
4400
4200
4000
3800
3600
3400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

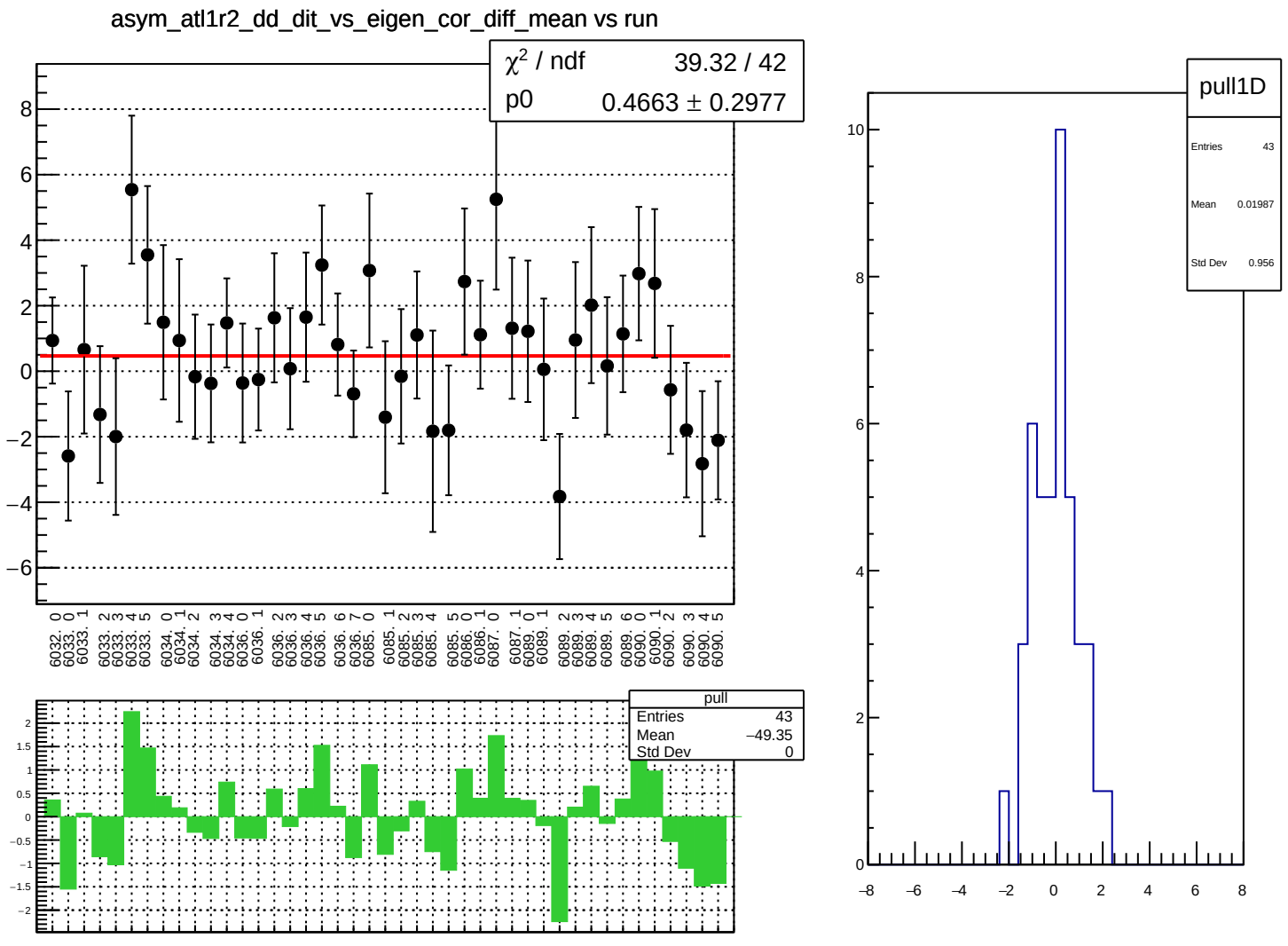

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.92 / 42
p0 7.886e−13 ± 3.865e−13
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 34.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

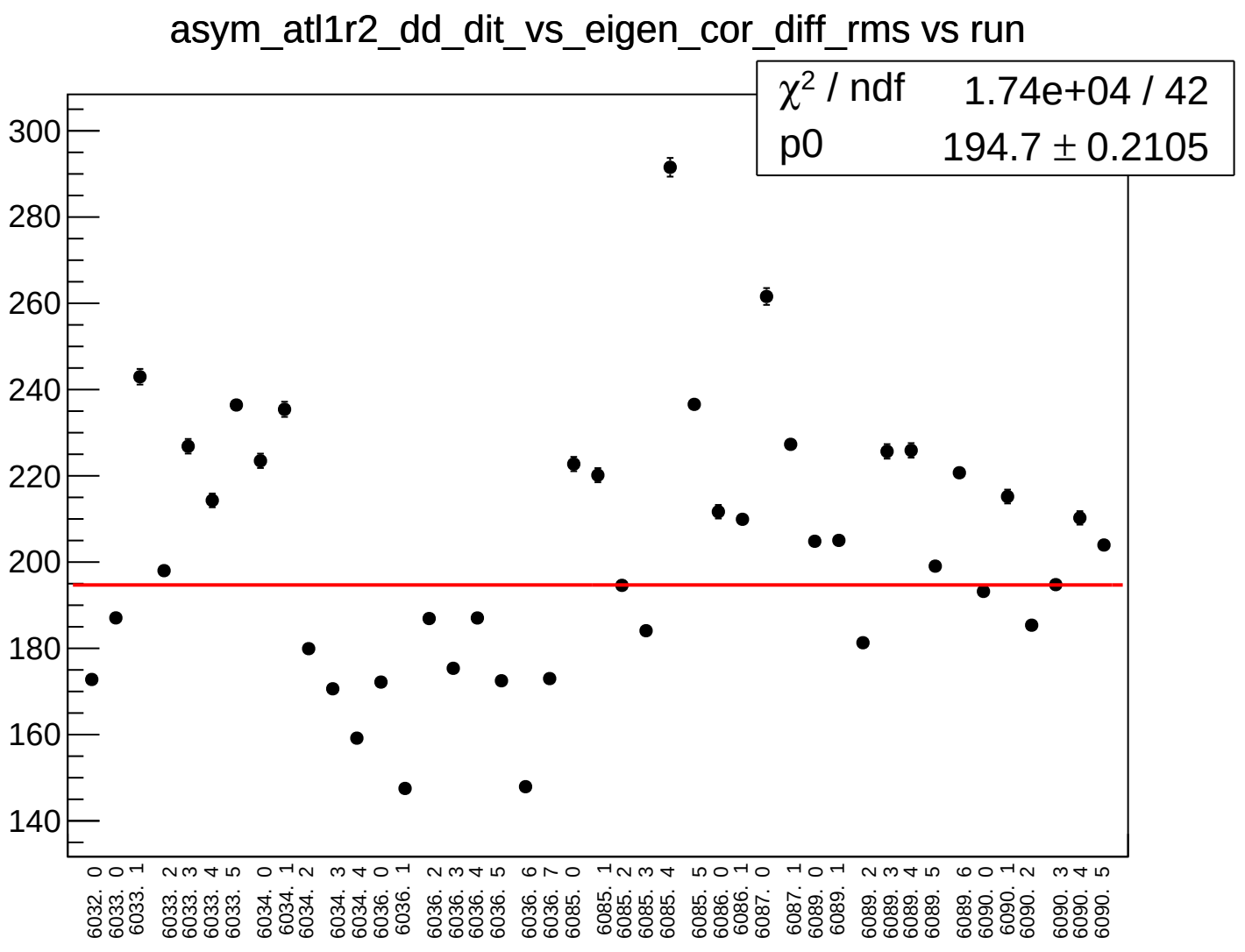

pull1D
Entries 43
Mean 0.07129
Std Dev 0.9112
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

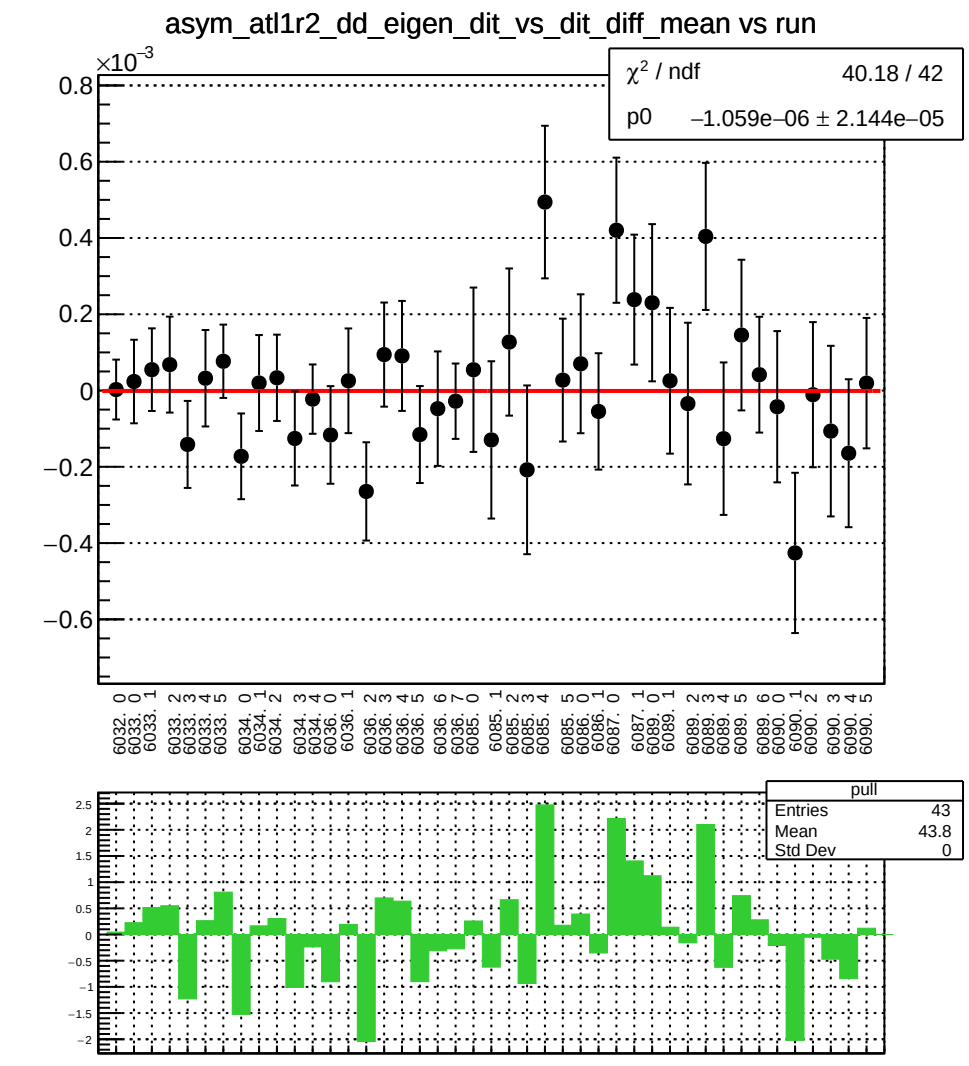

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.109e+05 / 42
p0 1.645e−10 ± 2.733e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

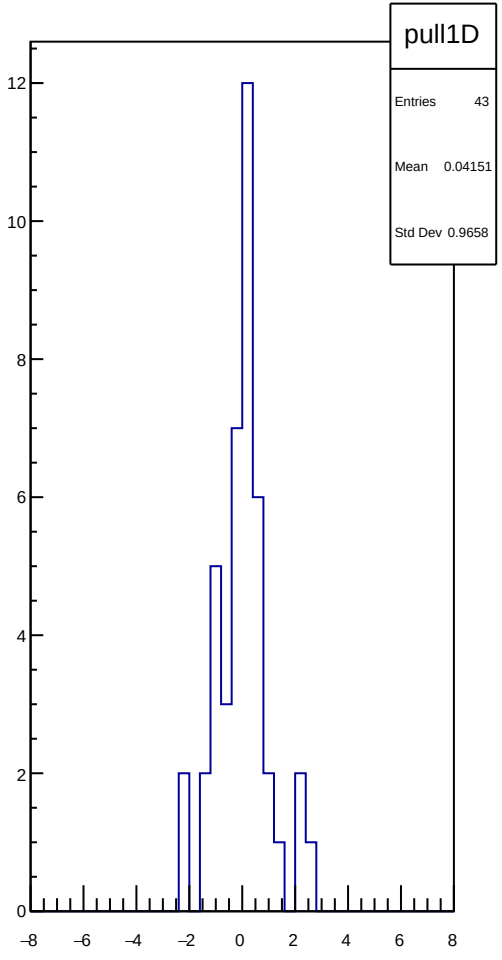

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.32 / 42
p0 0.4663 ± 0.2977
pull
Entries 43
Mean −49.35
Std Dev 0
pull1D
Entries 43
Mean 0.01987
Std Dev 0.956

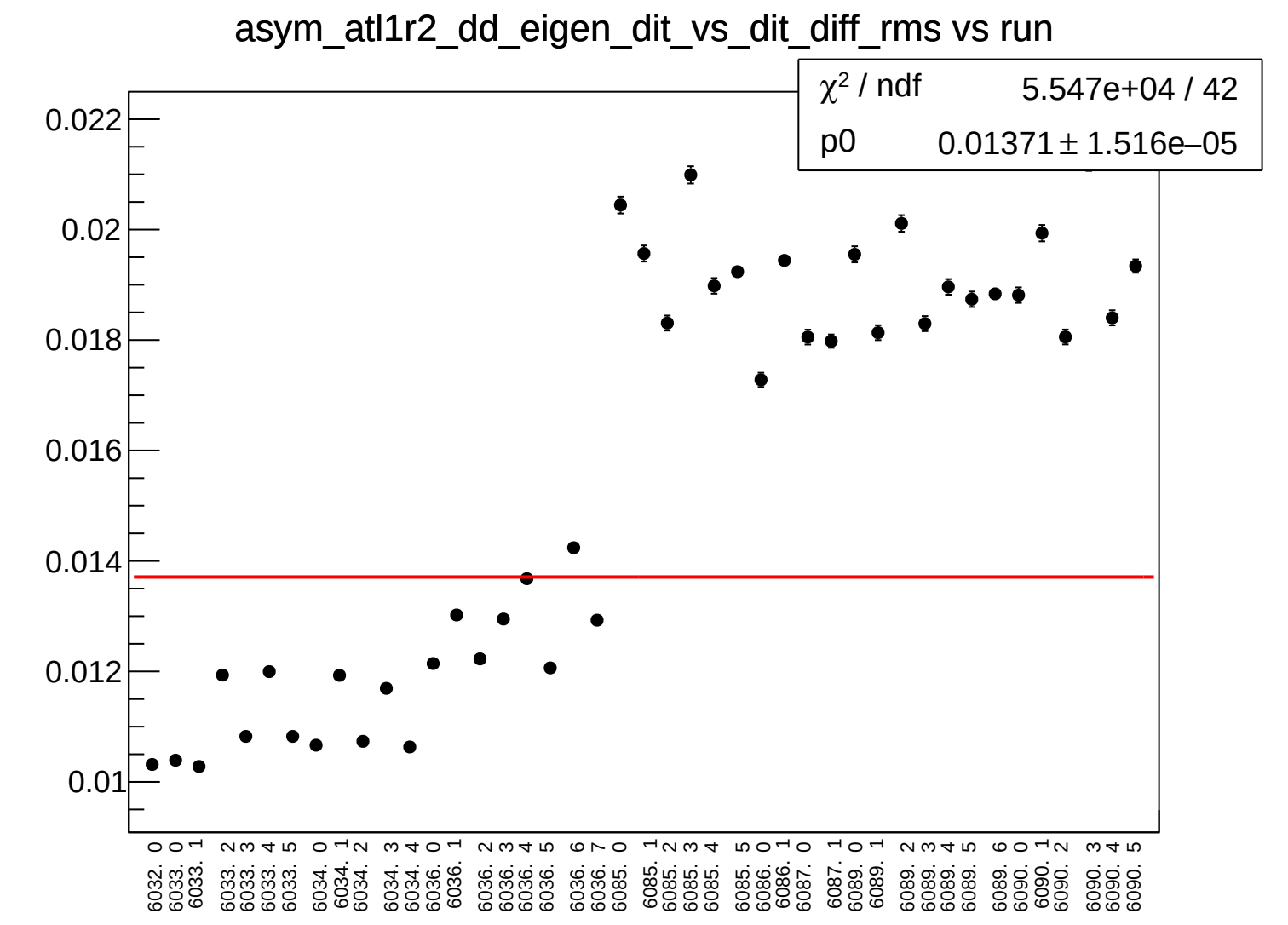

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+04 / 42
p0 194.7 ± 0.2105
300
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

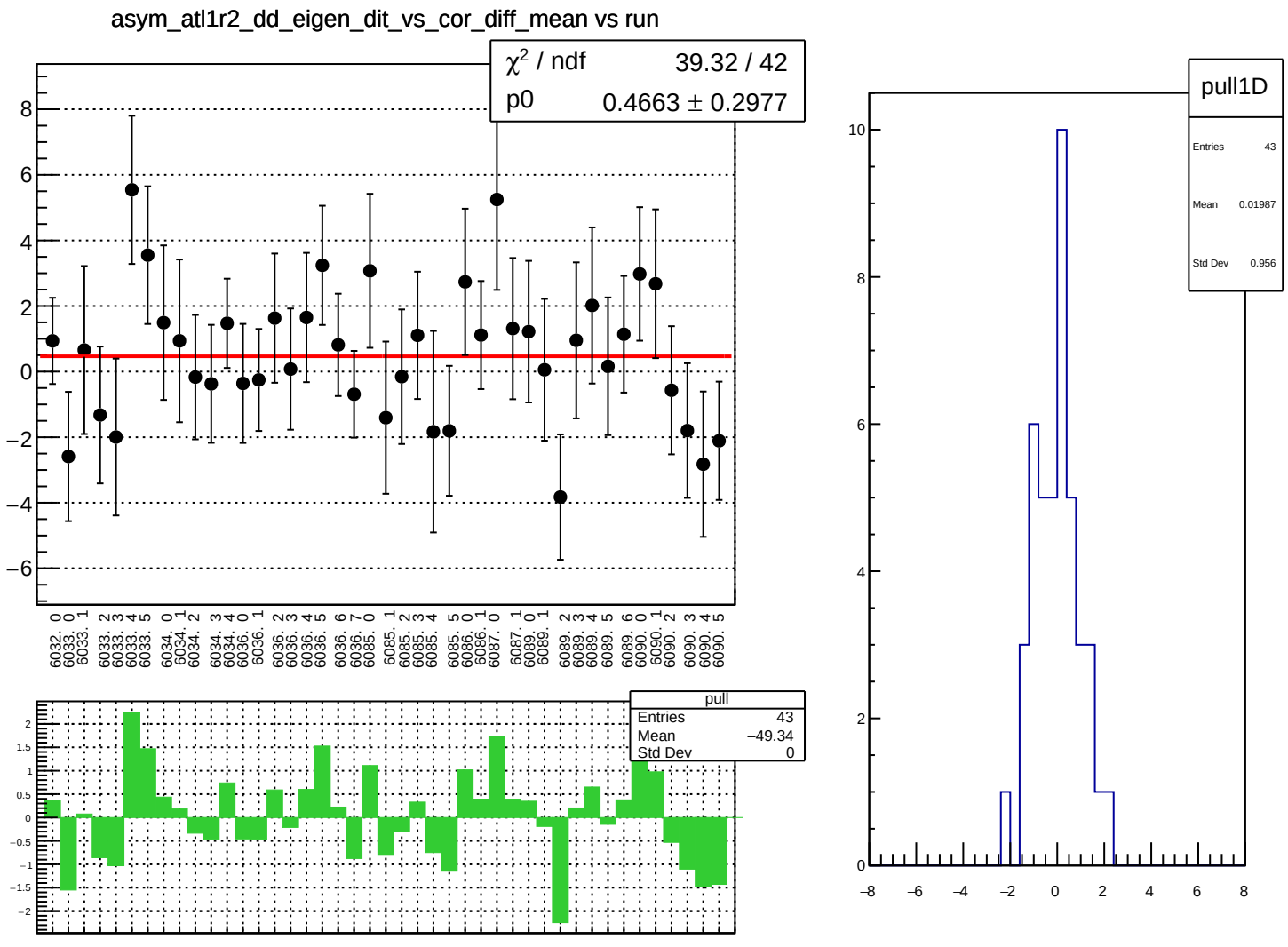

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.32 / 42
p0 0.4663 ± 0.2977
pull
Entries 43
Mean −49.35
Std Dev 0
pull1D
Entries 43
Mean 0.01987
Std Dev 0.956

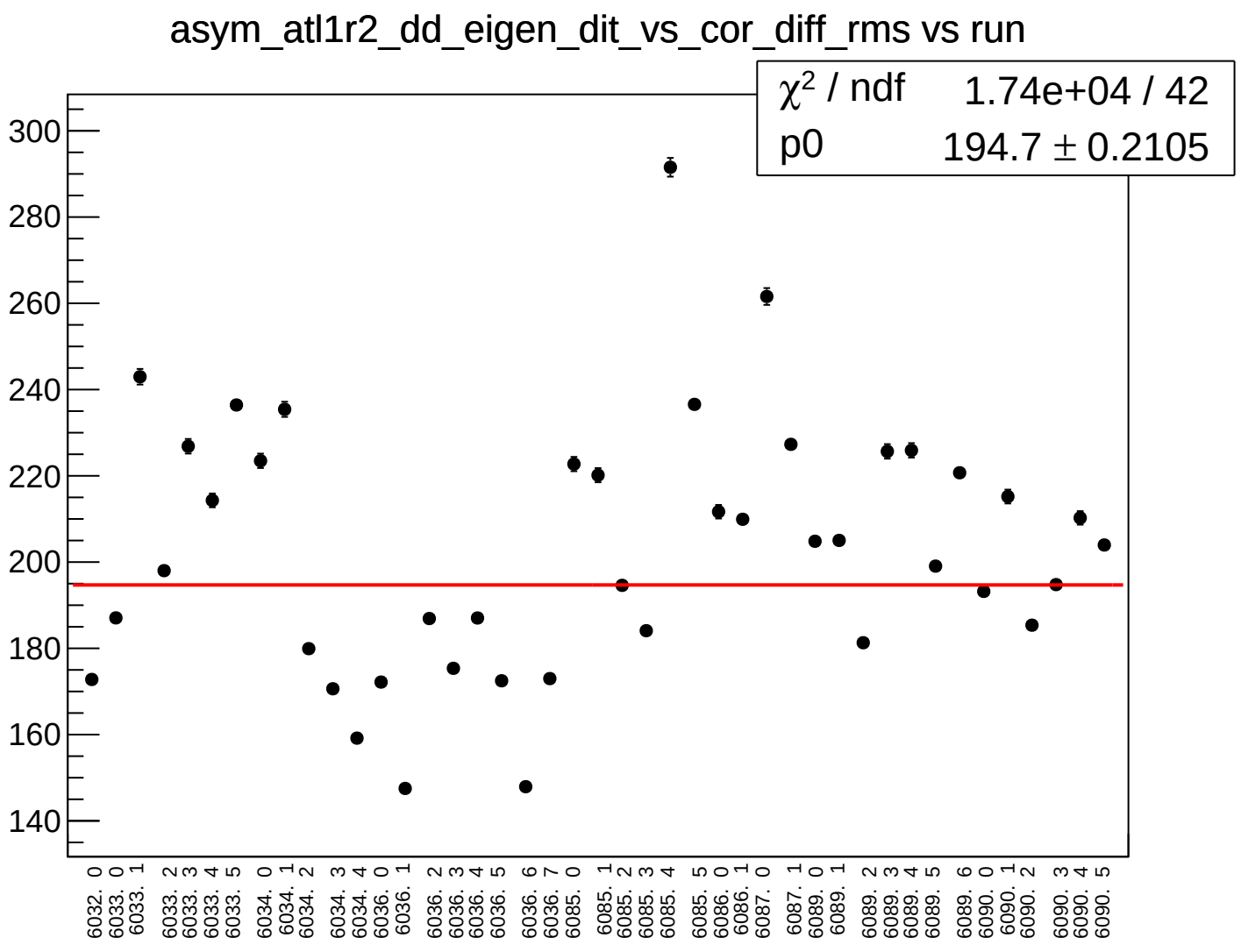

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+04 / 42
p0 194.7 ± 0.2105
300
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

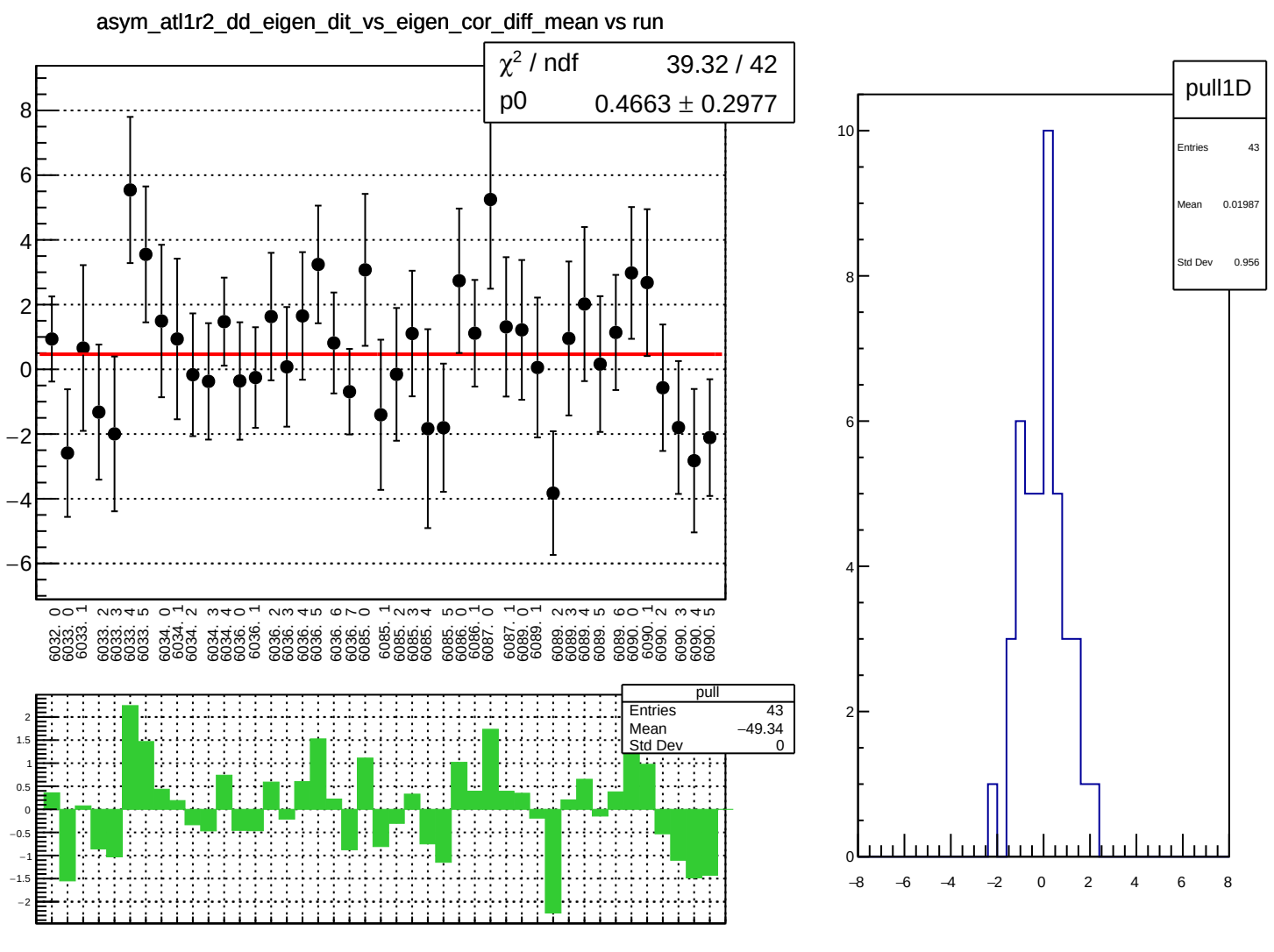

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.18 / 42
p0 −1.059e−06 ± 2.144e−05
pull
Entries 43
Mean 43.8
Std Dev 0

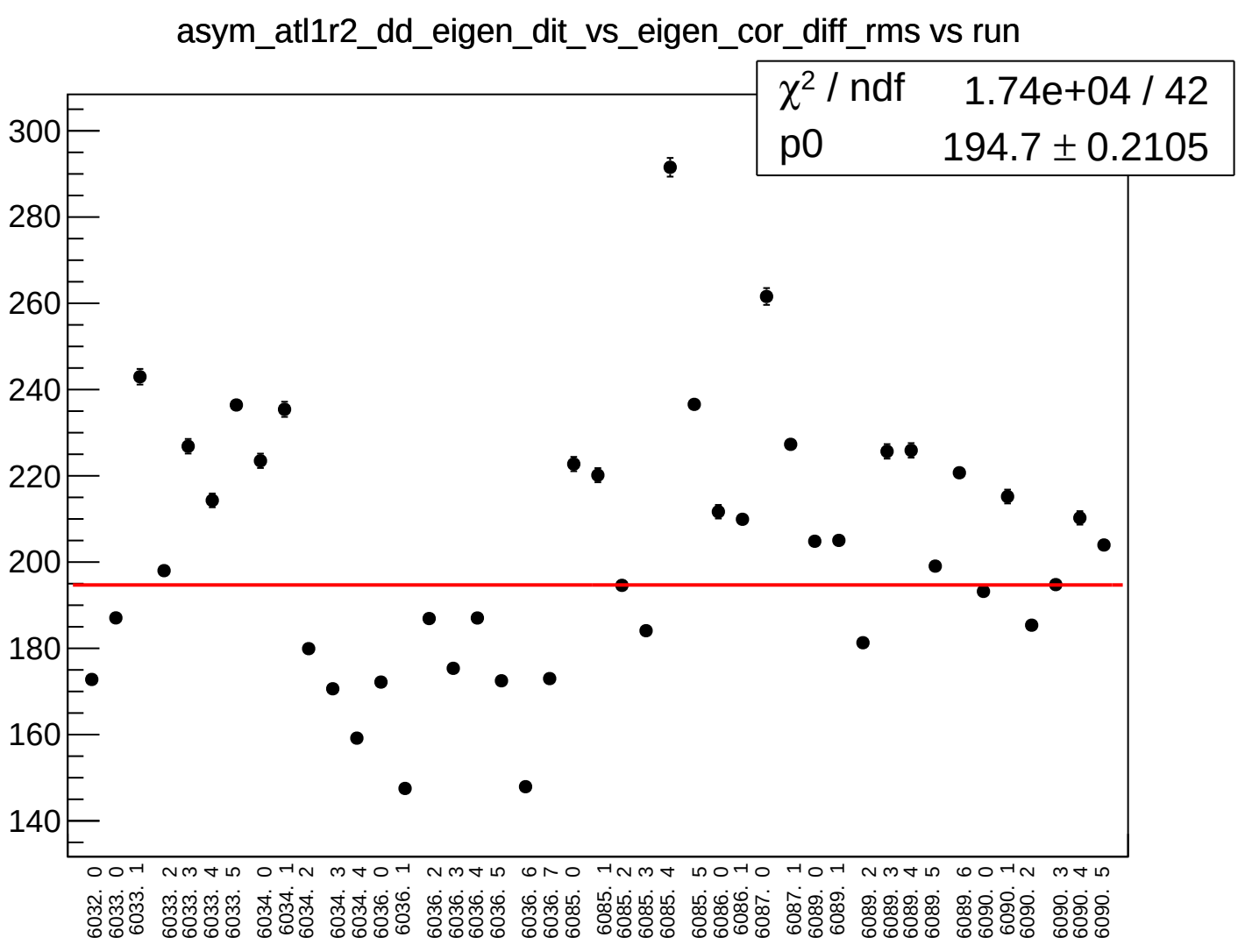

pull1D
Entries 43
Mean 0.04151
Std Dev 0.9658

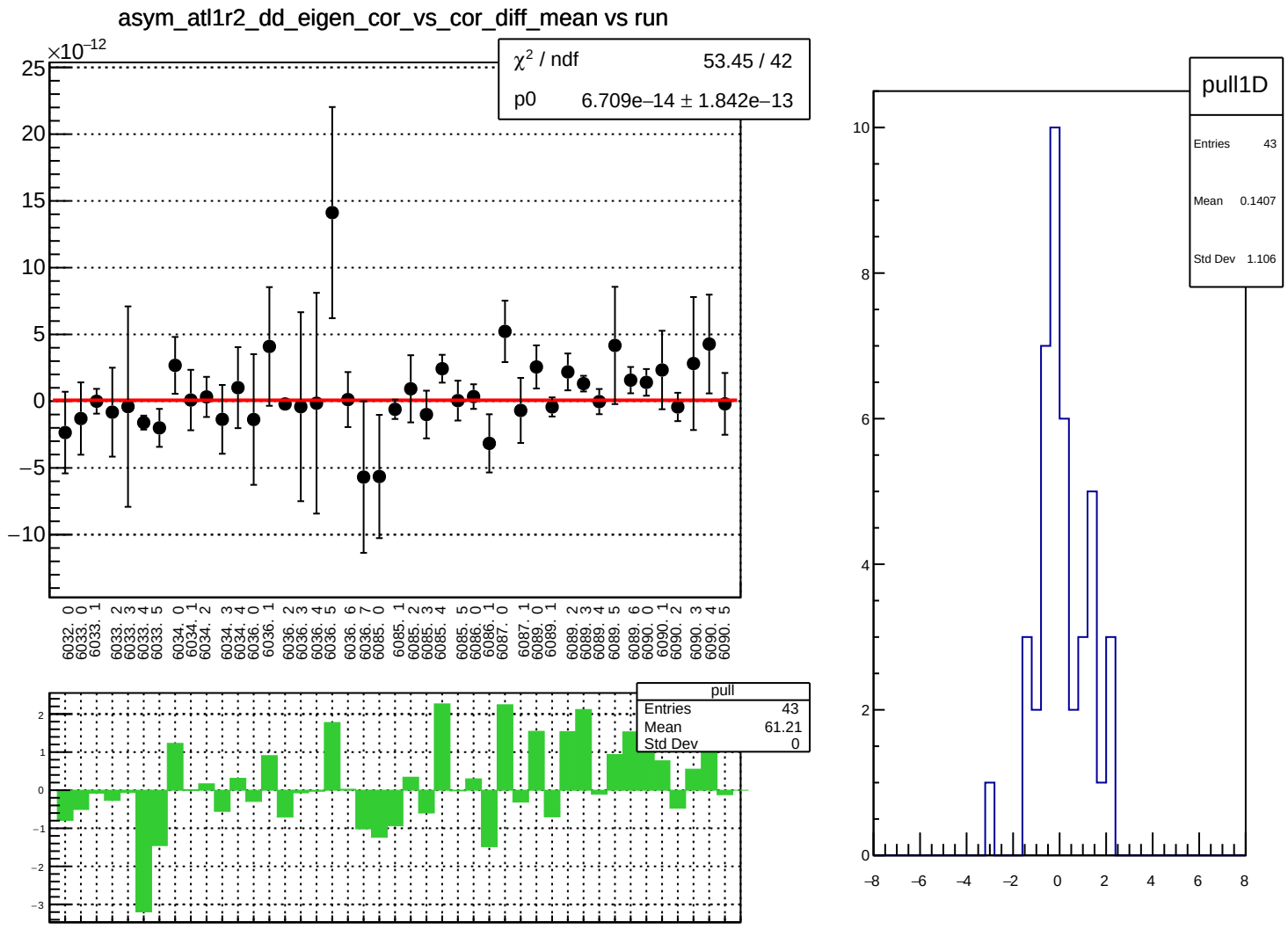

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.547e+04 / 42
p0 0.01371 ± 1.516e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

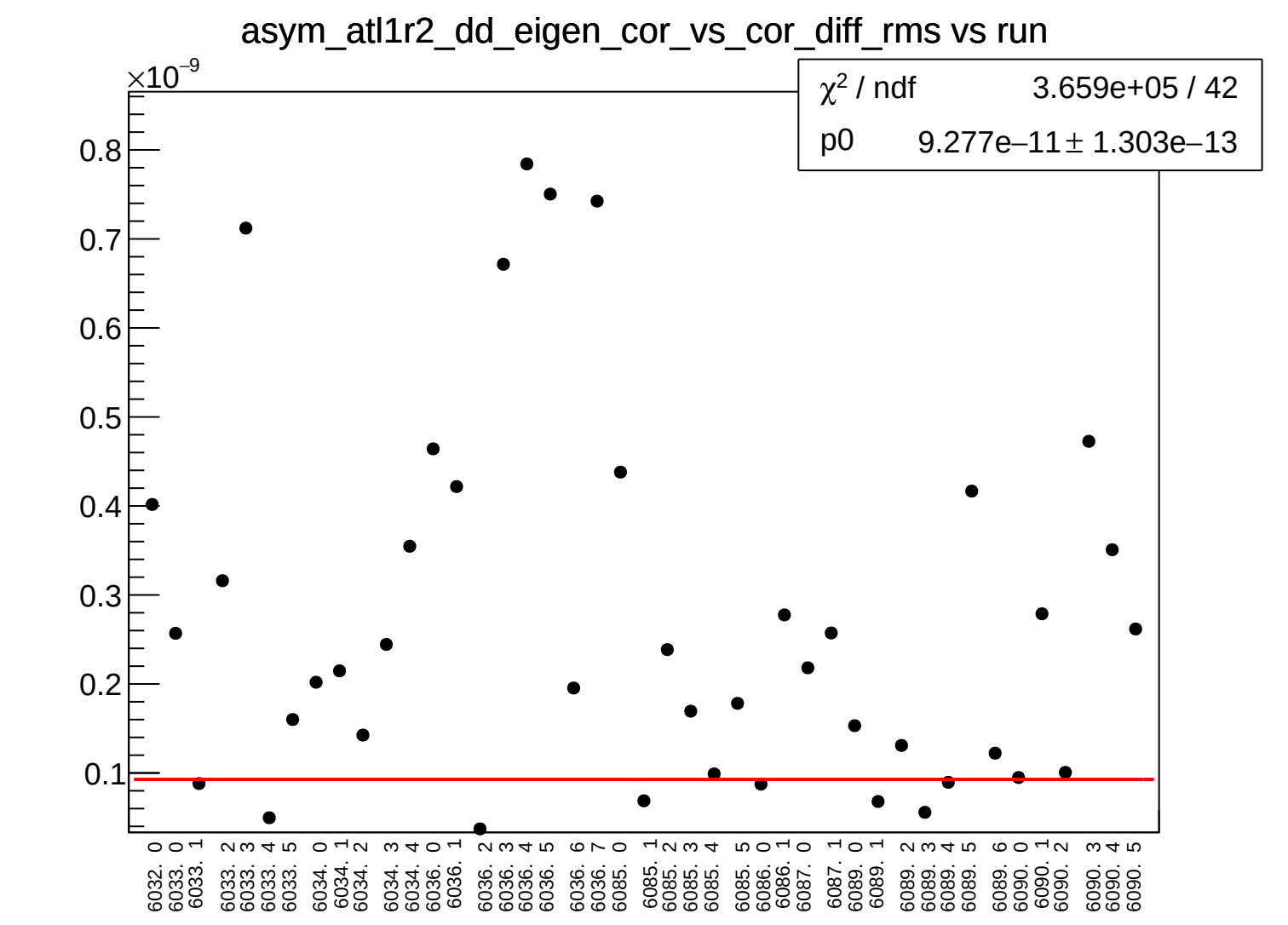

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.32 / 42
p0 0.4663 ± 0.2977
pull
Entries 43
Mean −49.34
Std Dev 0
pull1D
Entries 43
Mean 0.01987
Std Dev 0.956

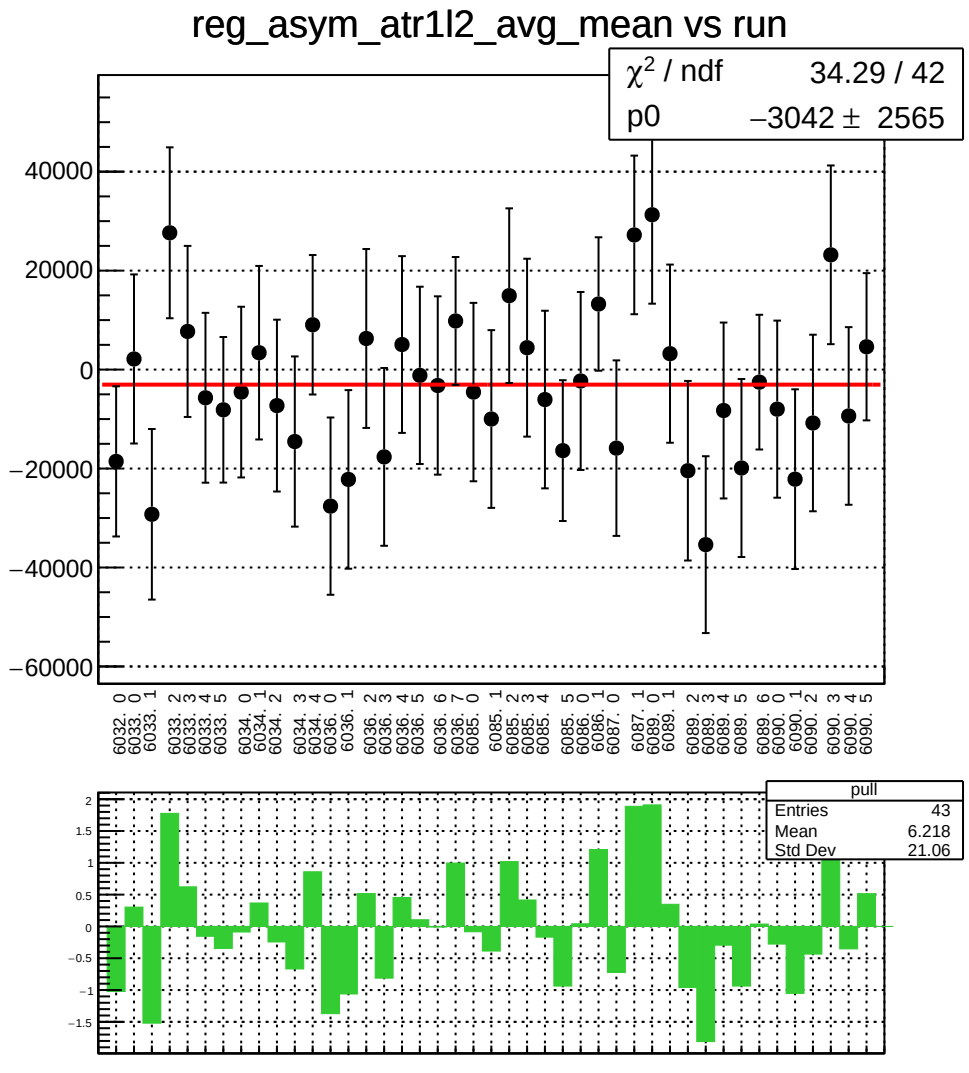

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.74e+04 / 42
p0 194.7 ± 0.2105
300
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

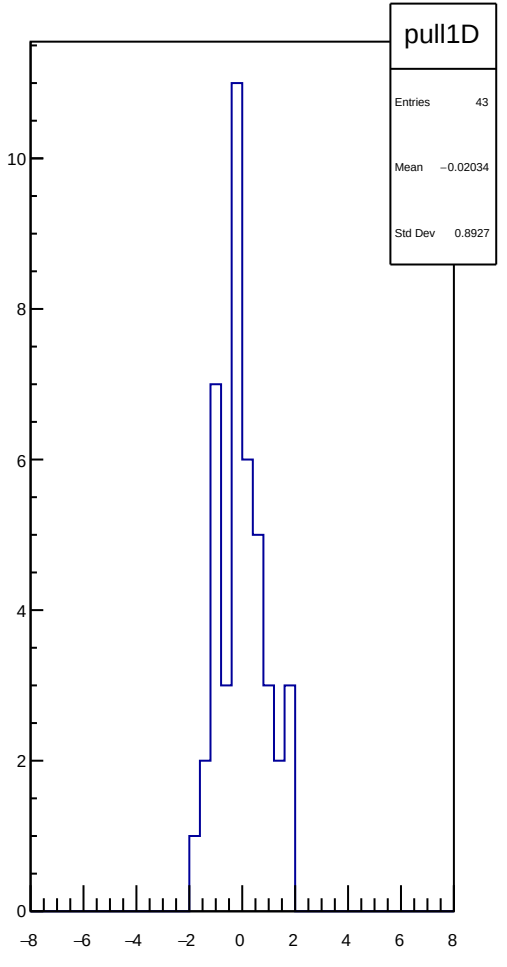

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.32 / 42
p0 0.4663 ± 0.2977
pull
Entries 43
Mean −49.34
Std Dev 0
pull1D
Entries 43
Mean 0.01987
Std Dev 0.956

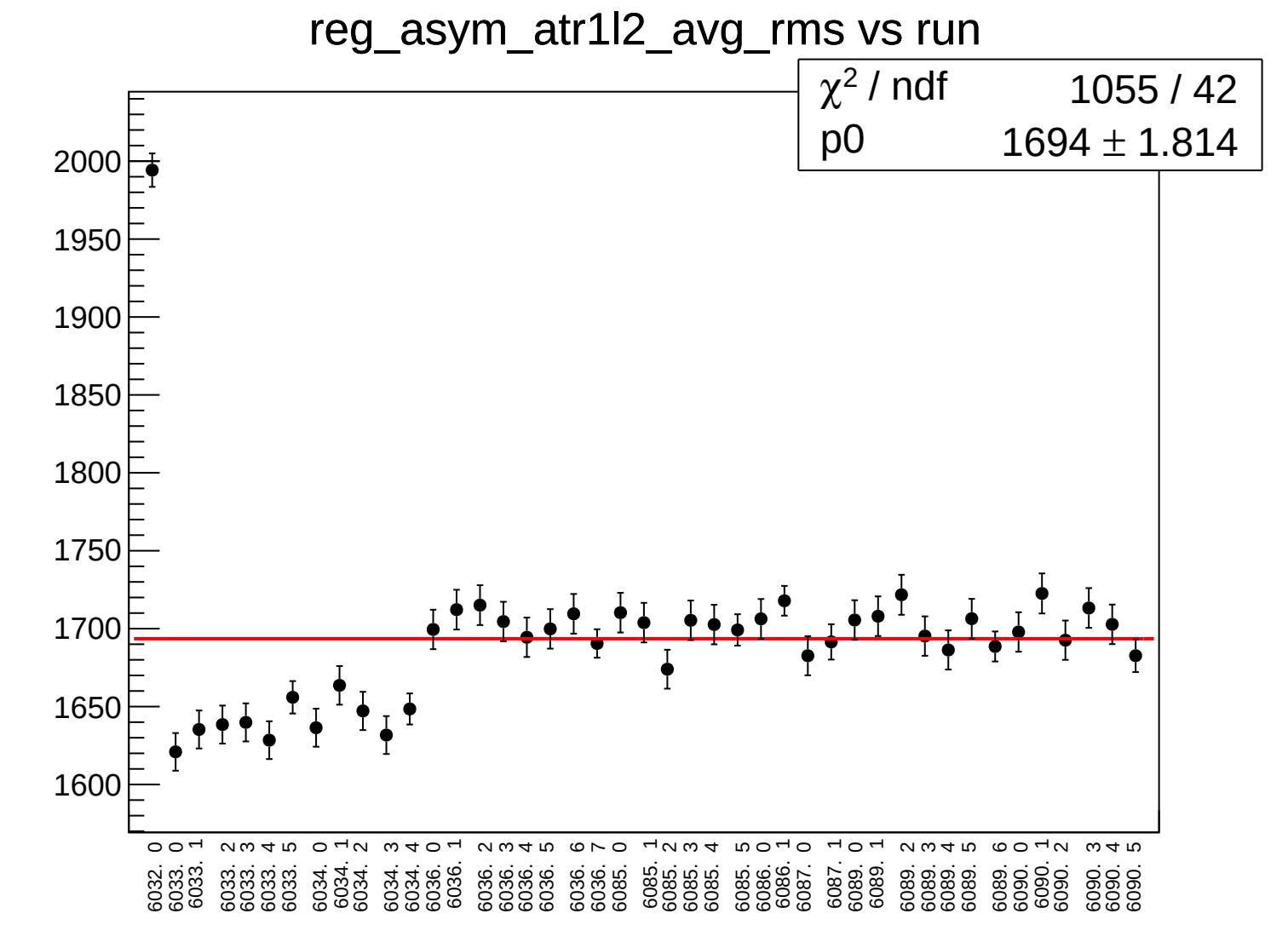

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.74e+04 / 42
p0 194.7 ± 0.2105
300
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

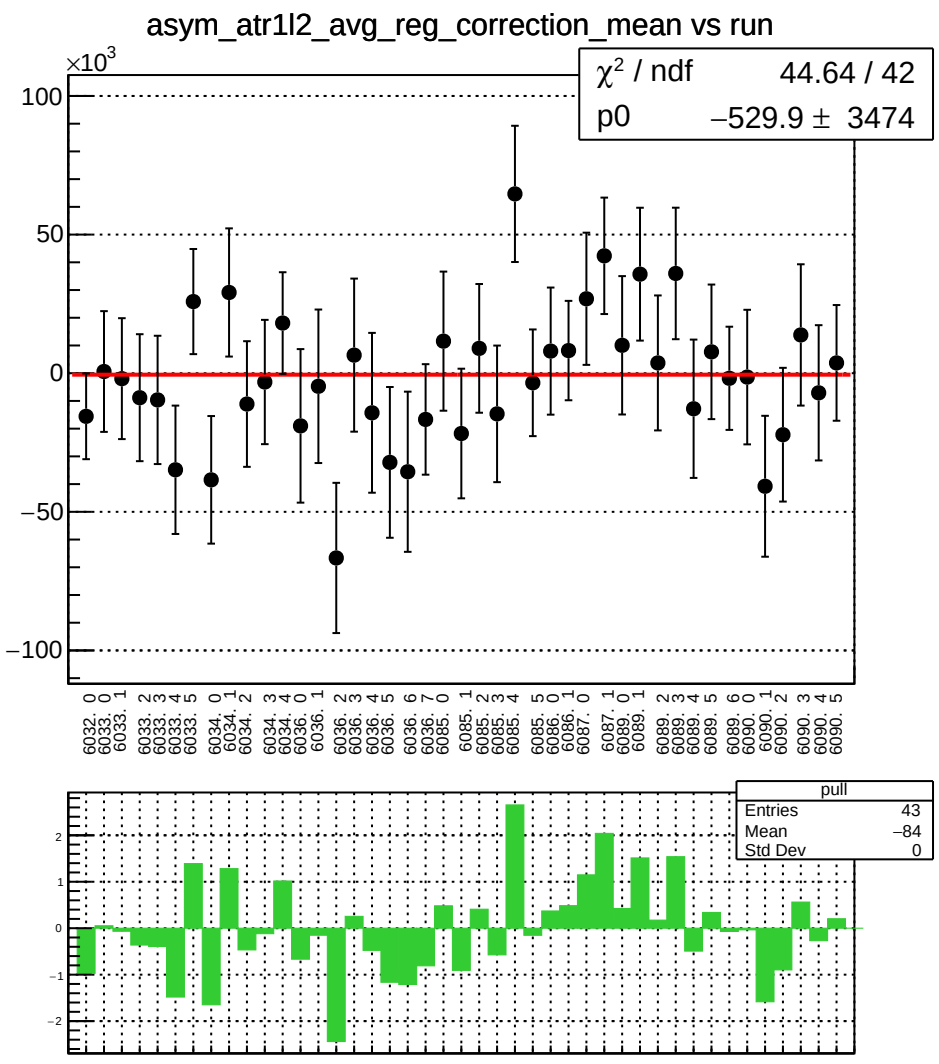

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 53.45 / 42
p0 6.709e−14 ± 1.842e−13
pull
Entries 43
Mean 61.21
Std Dev 0
pull1D
Entries 43
Mean 0.1407
Std Dev 1.106

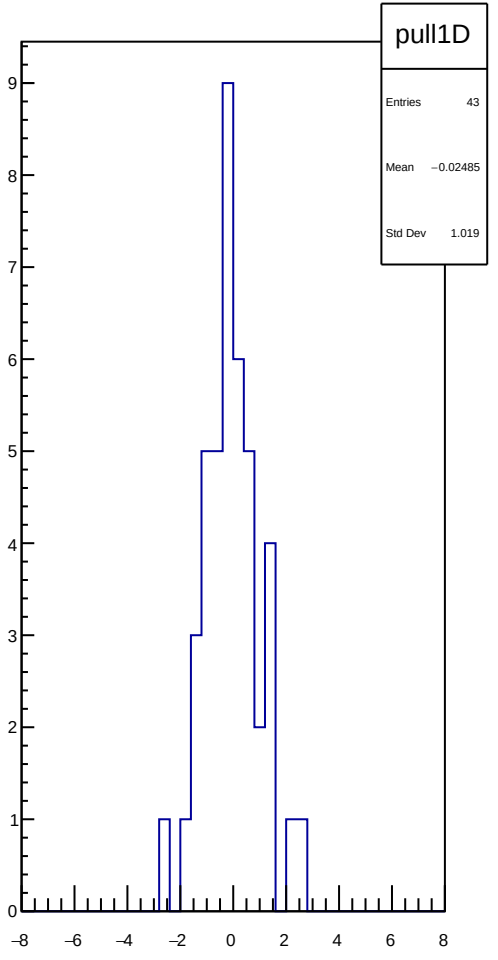

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.659e+05 / 42
p0 9.277e−11 ± 1.303e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

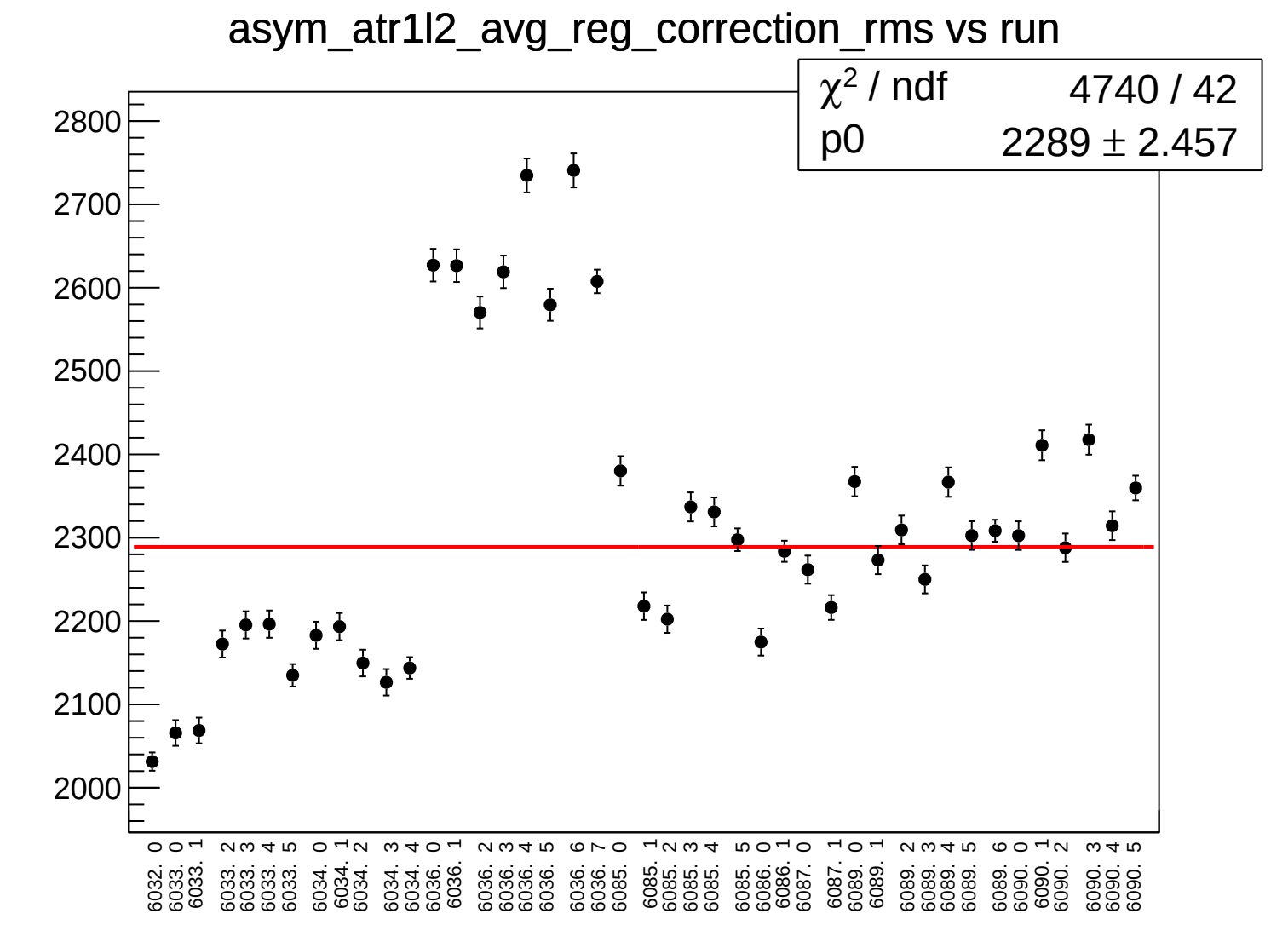

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 34.29 / 42
p0 −3042 ± 2565
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.218
Std Dev 21.06
2
1.5
1
0.5
0
−0.5
−1
−1.5

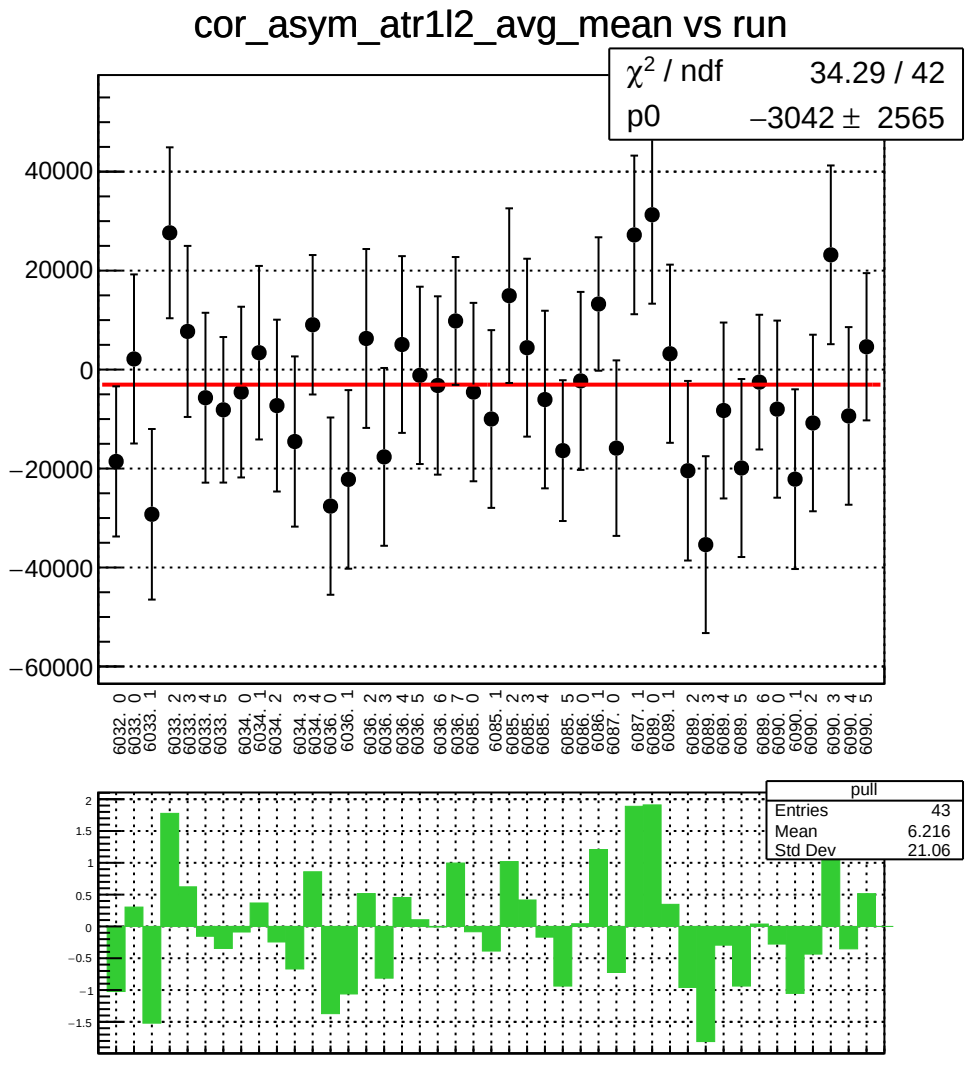

pull1D
Entries 43
Mean −0.02034
Std Dev 0.8927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

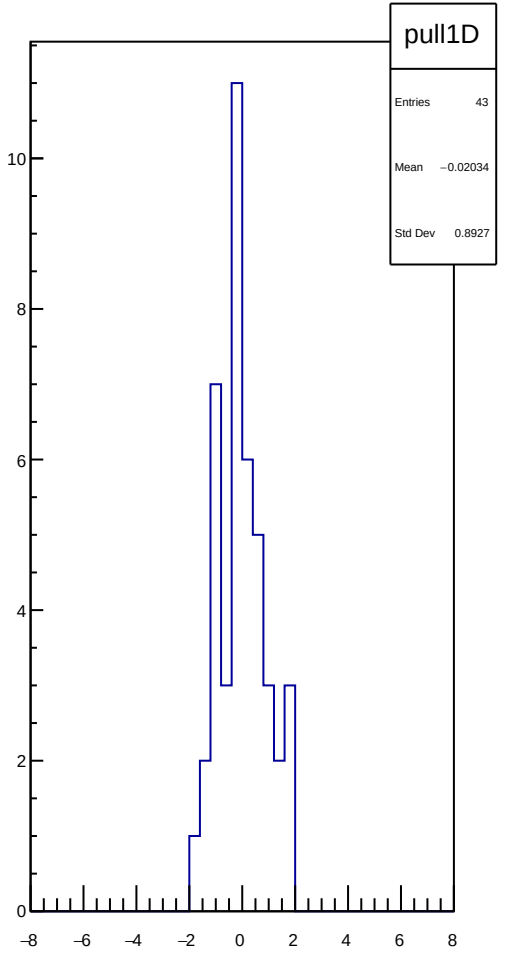

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1055 / 42
p0 1694 ± 1.814
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

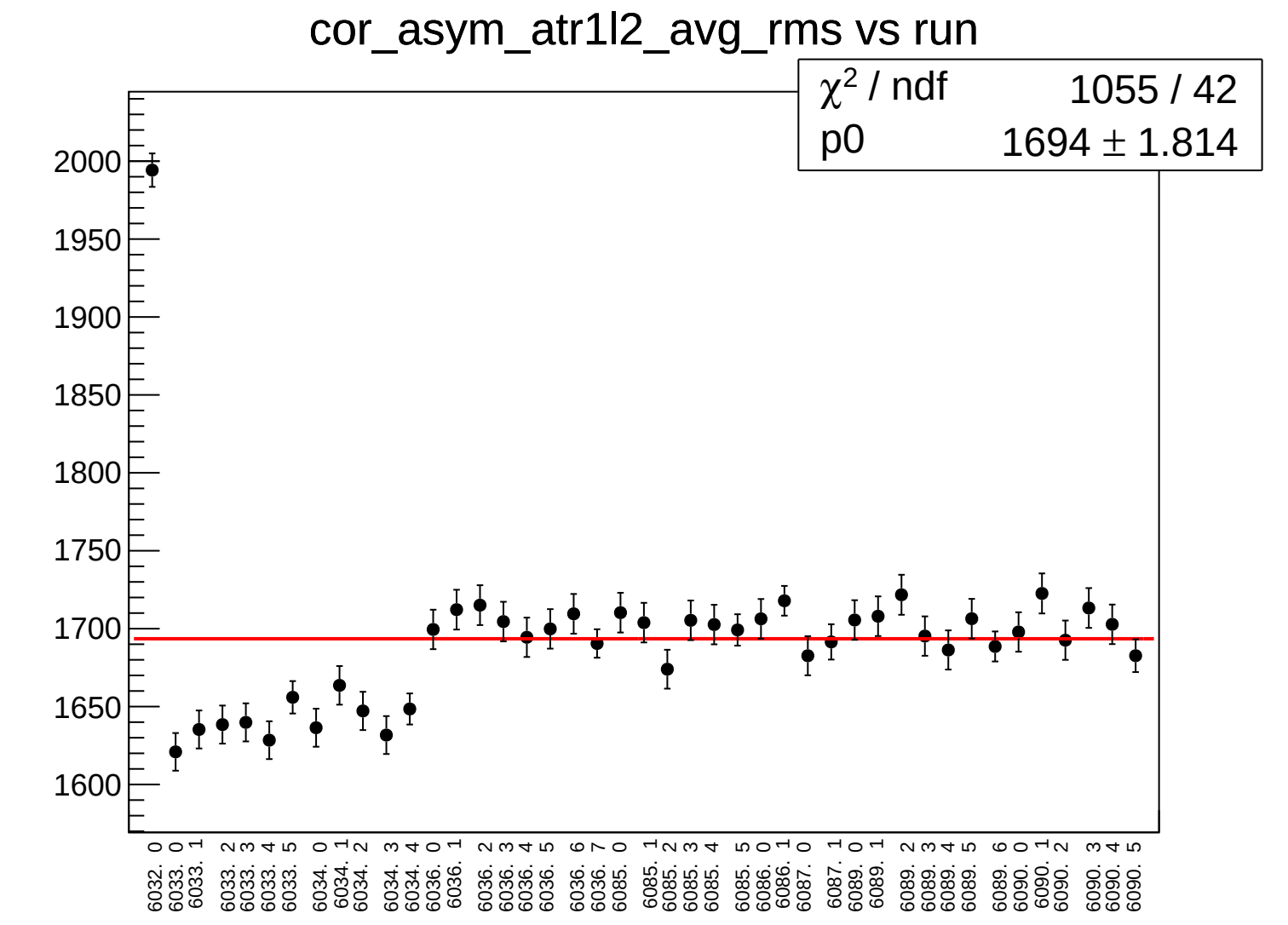

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 44.64 / 42
p0 −529.9 ± 3474
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −84
Std Dev 0
2
1
0
−1
−2

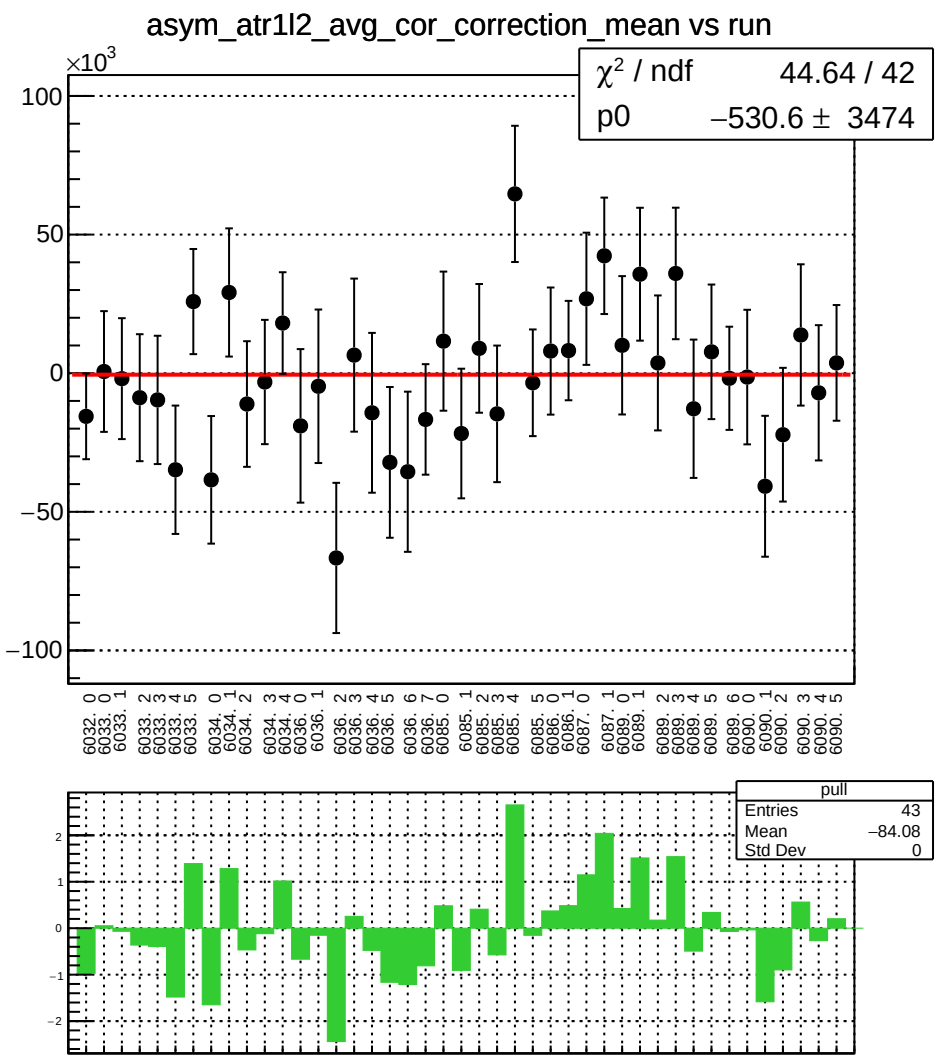

pull1D
Entries 43
Mean −0.02485
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

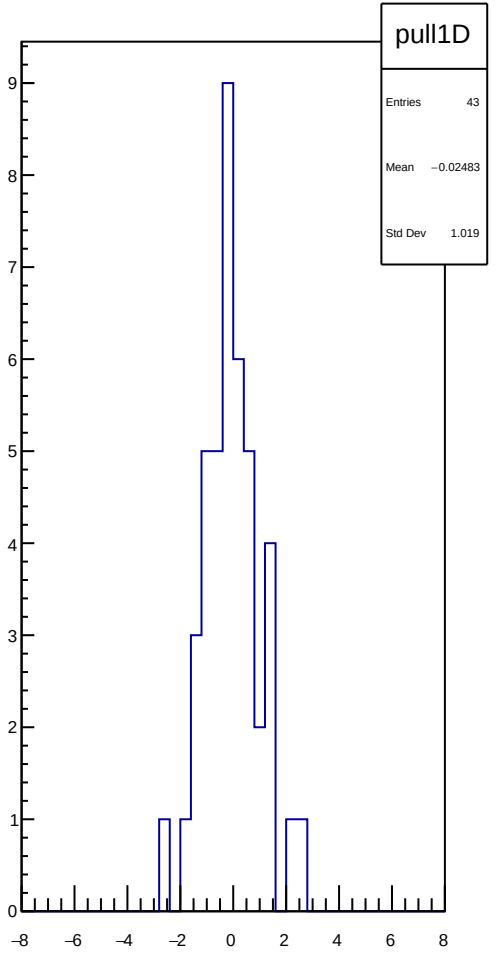

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4740 / 42
p0 2289 ± 2.457
2800
2700
2600
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

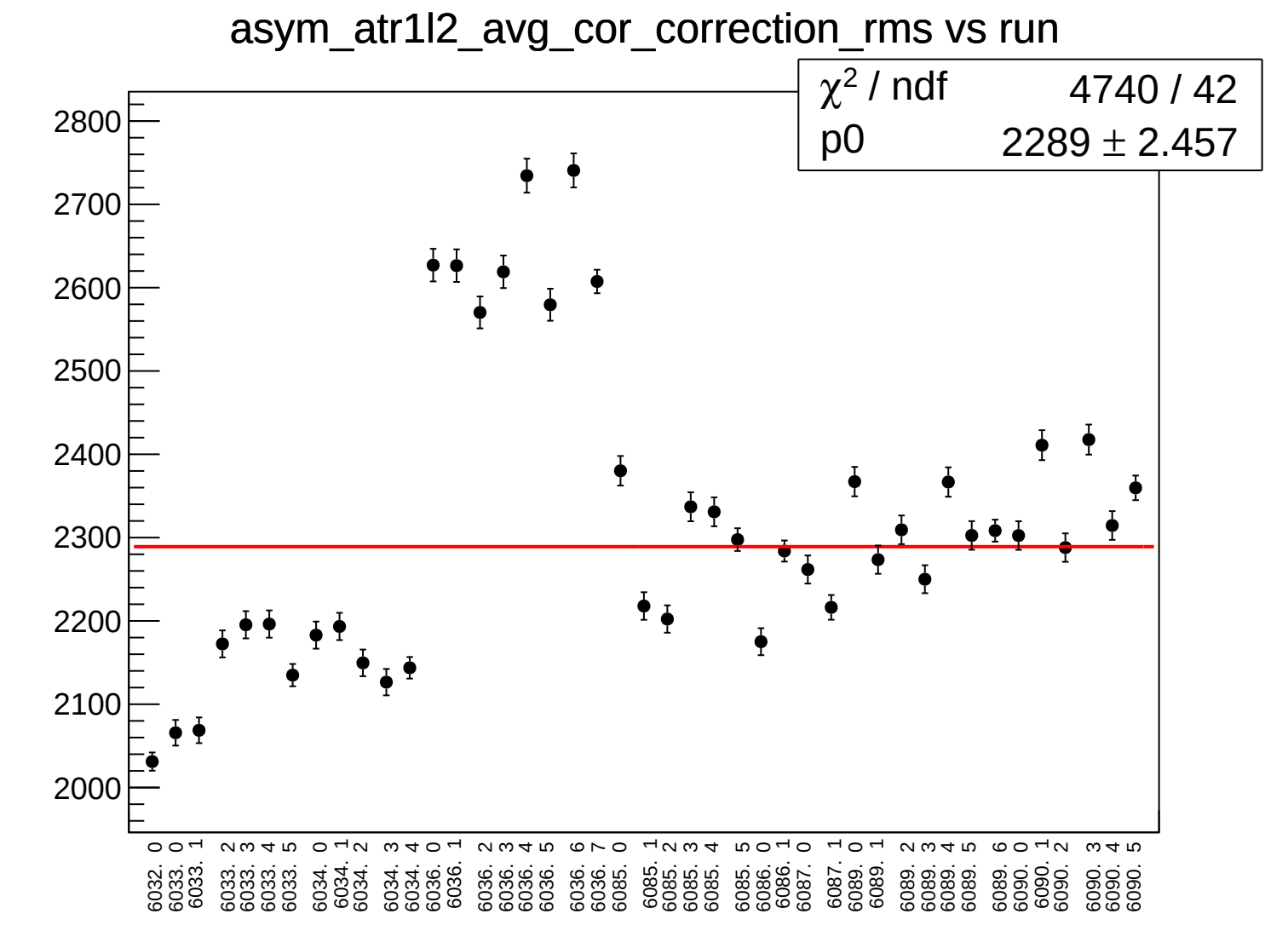

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 34.29 / 42
p0 −3042 ± 2565
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.216
Std Dev 21.06
2
1.5
1
0.5
0
−0.5
−1
−1.5

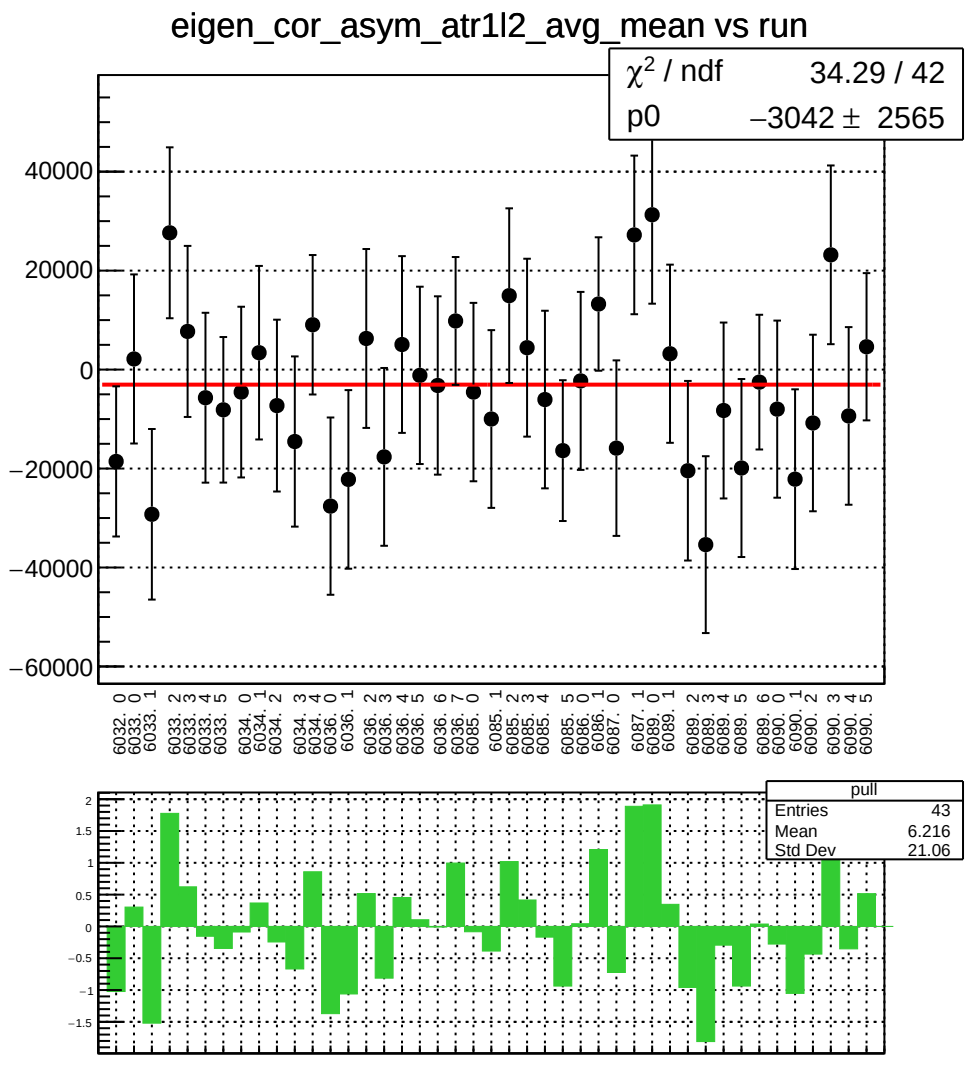

pull1D
Entries 43
Mean −0.02034
Std Dev 0.8927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

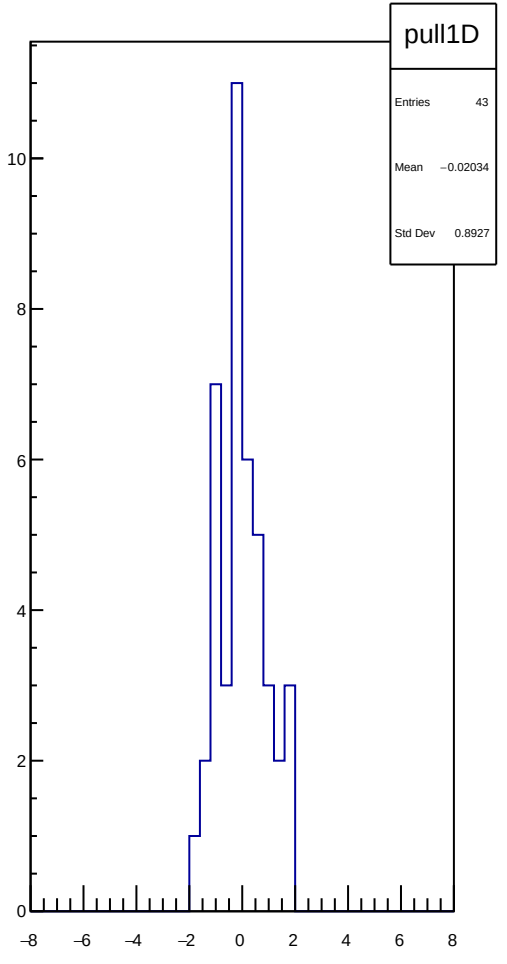

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1055 / 42
p0 1694 ± 1.814
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

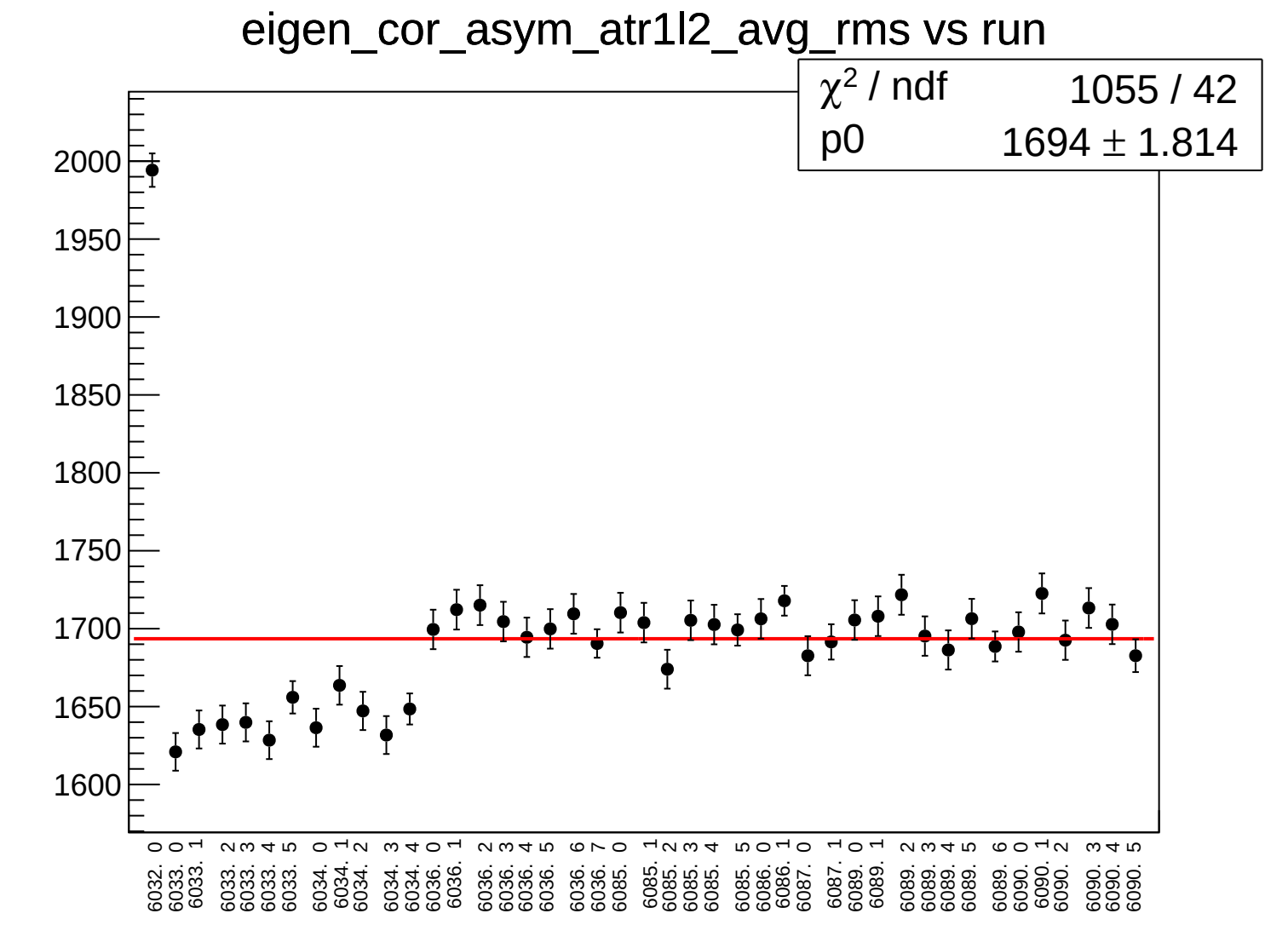

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 44.64 / 42
p0 −530.6 ± 3474
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −84.08
Std Dev 0
2
1
0
−1
−2

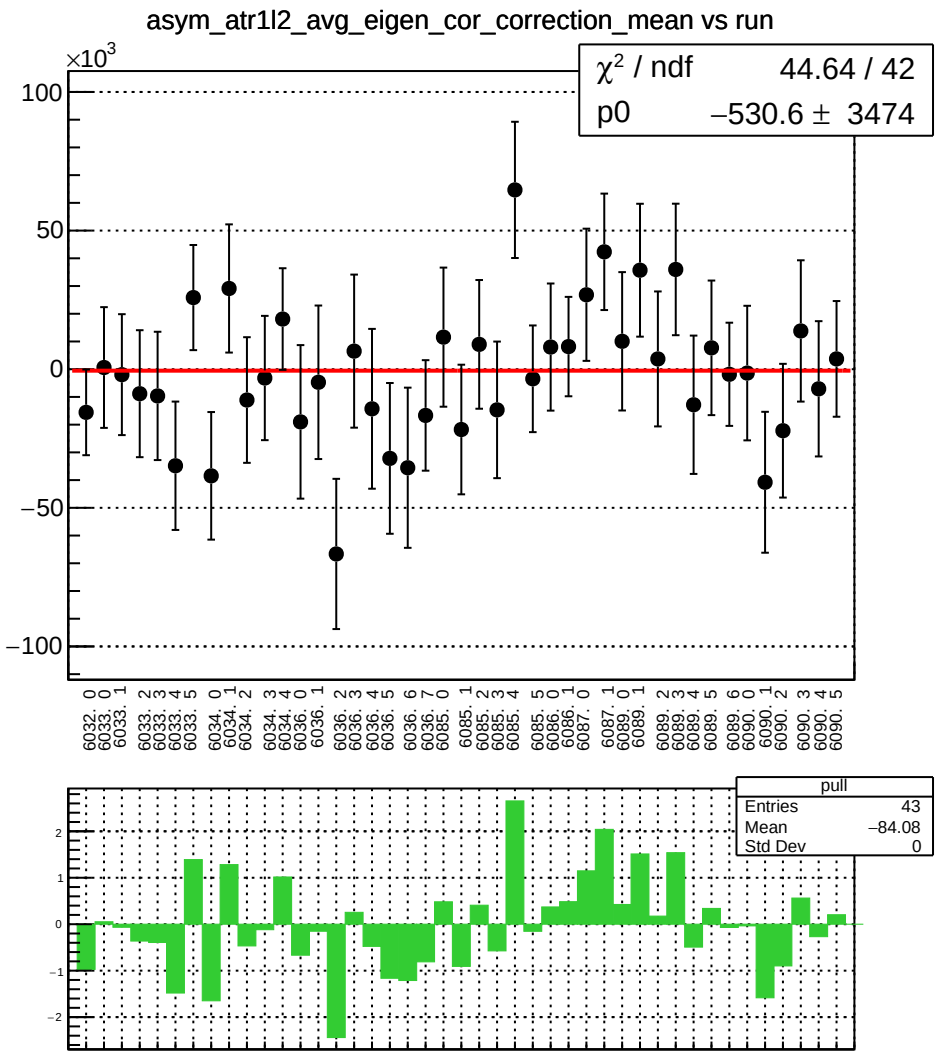

pull1D
Entries 43
Mean −0.02483
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

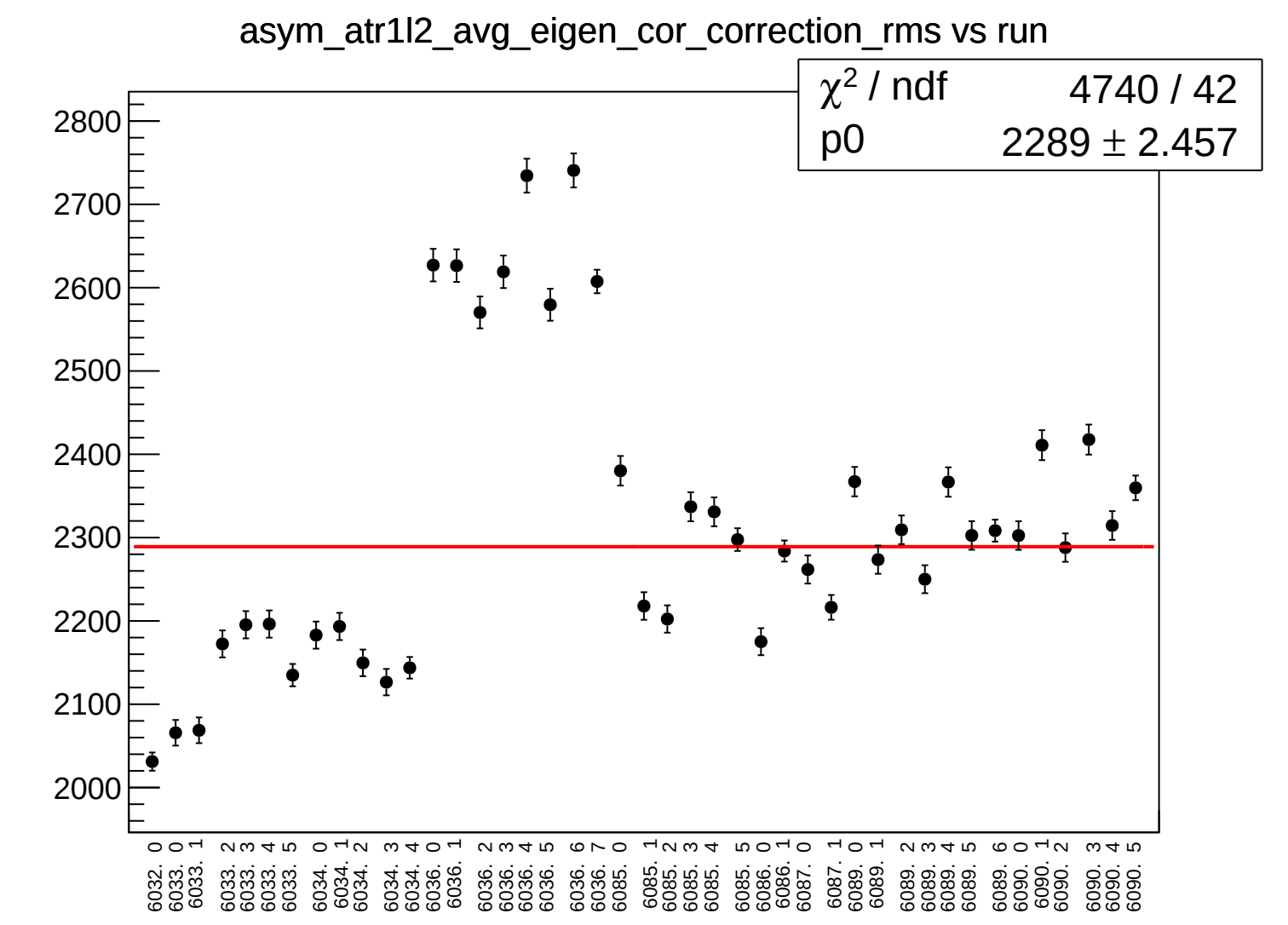

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4740 / 42
p0 2289 ± 2.457
2800
2700
2600
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

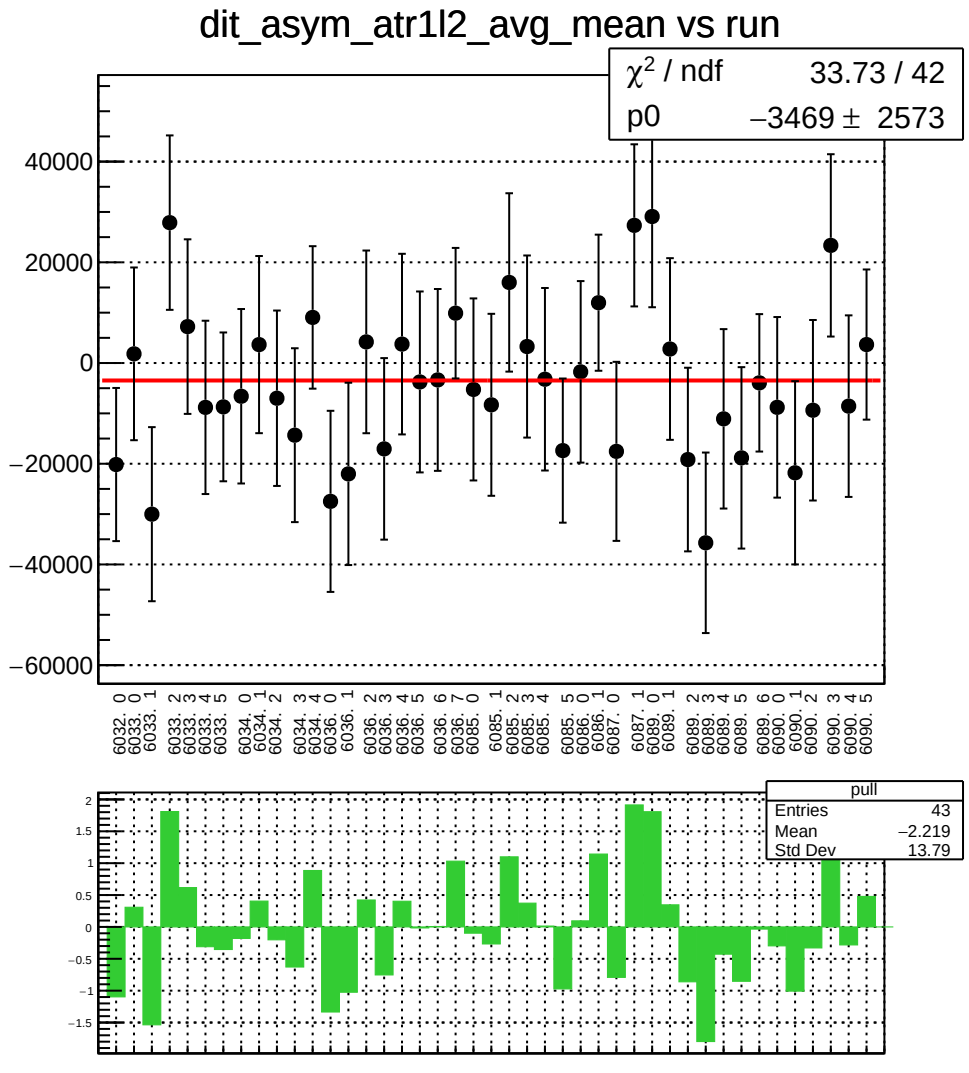

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 34.29 / 42
p0 −3042 ± 2565
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.216
Std Dev 21.06
2
1.5
1
0.5
0
−0.5
−1
−1.5

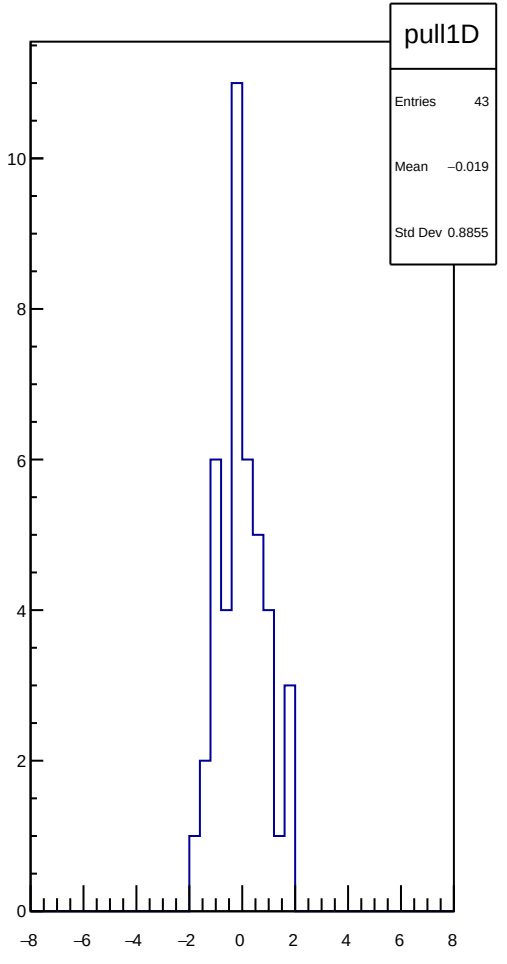

pull1D
Entries 43
Mean −0.02034
Std Dev 0.8927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

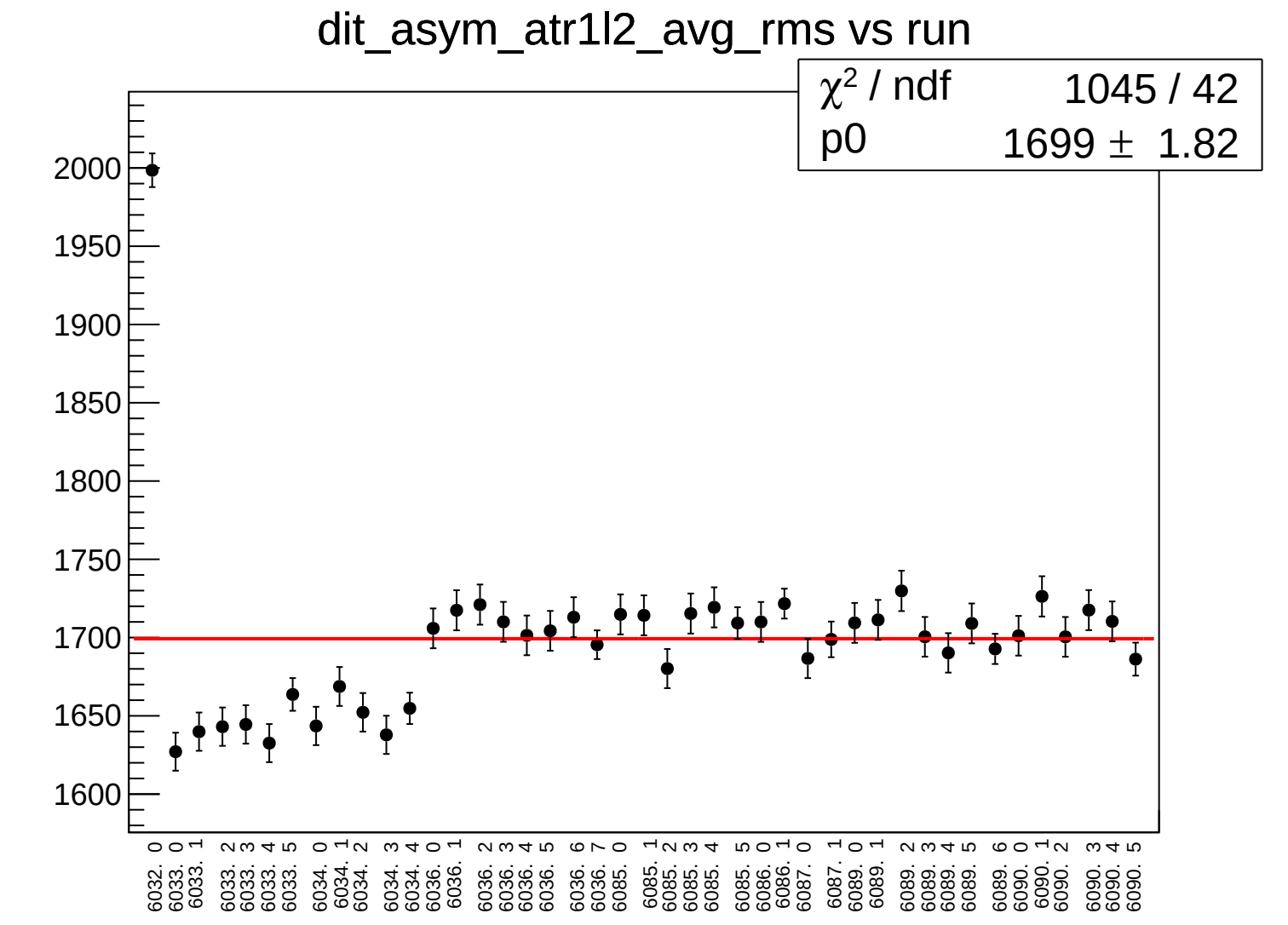

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1055 / 42
p0 1694 ± 1.814
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

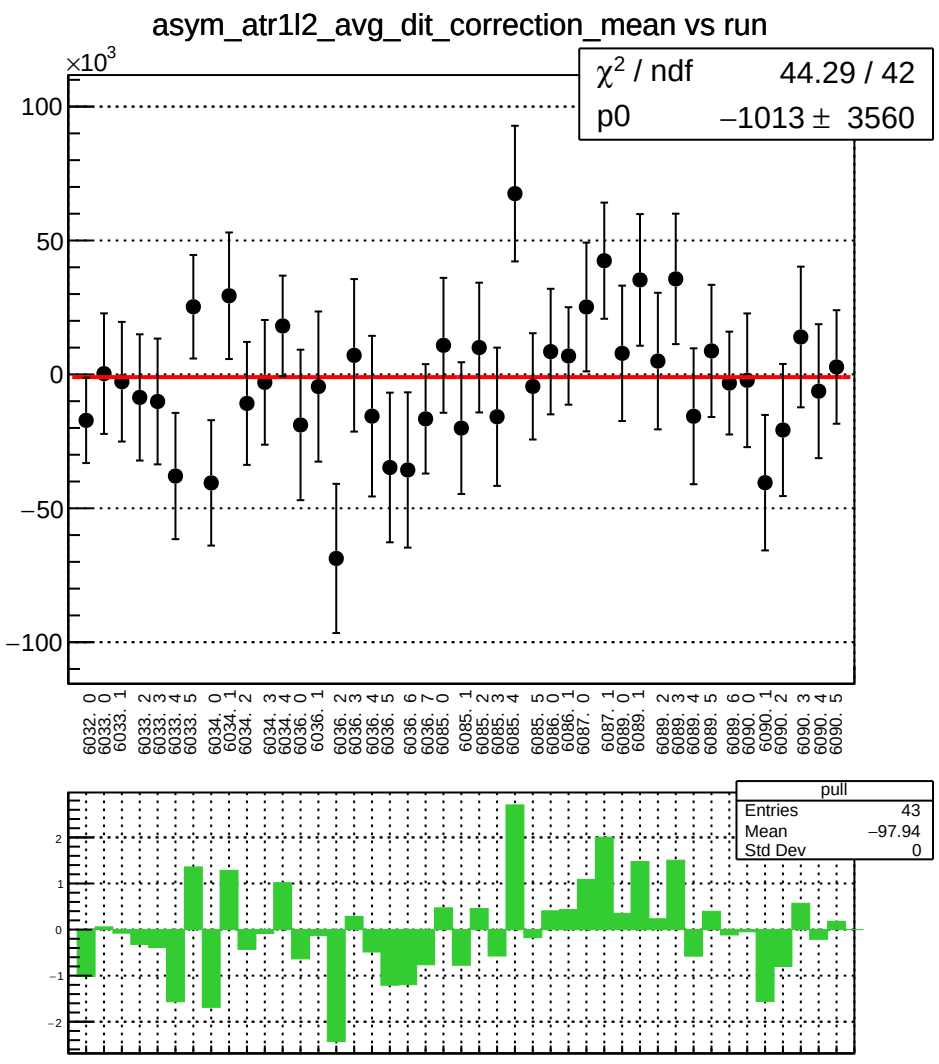

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 44.64 / 42
p0 −530.6 ± 3474
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −84.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02483
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

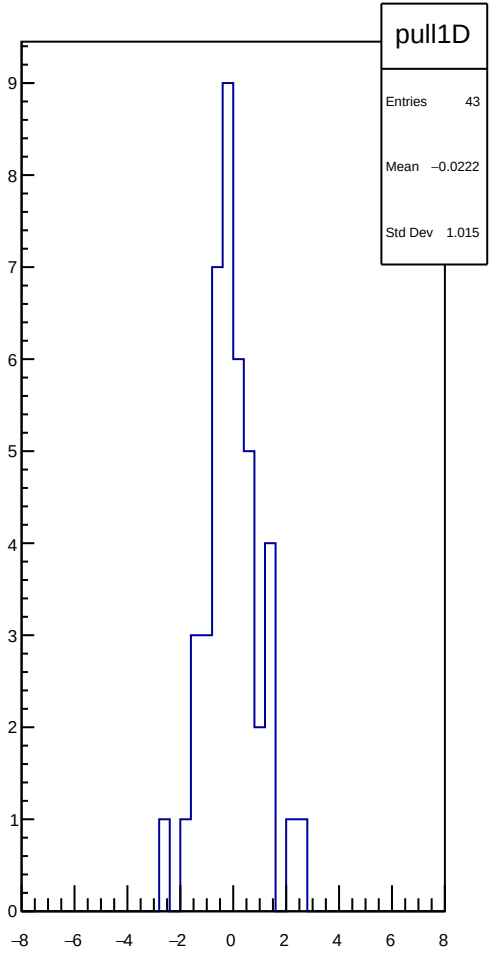

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4740 / 42
p0 2289 ± 2.457
2800
2700
2600
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

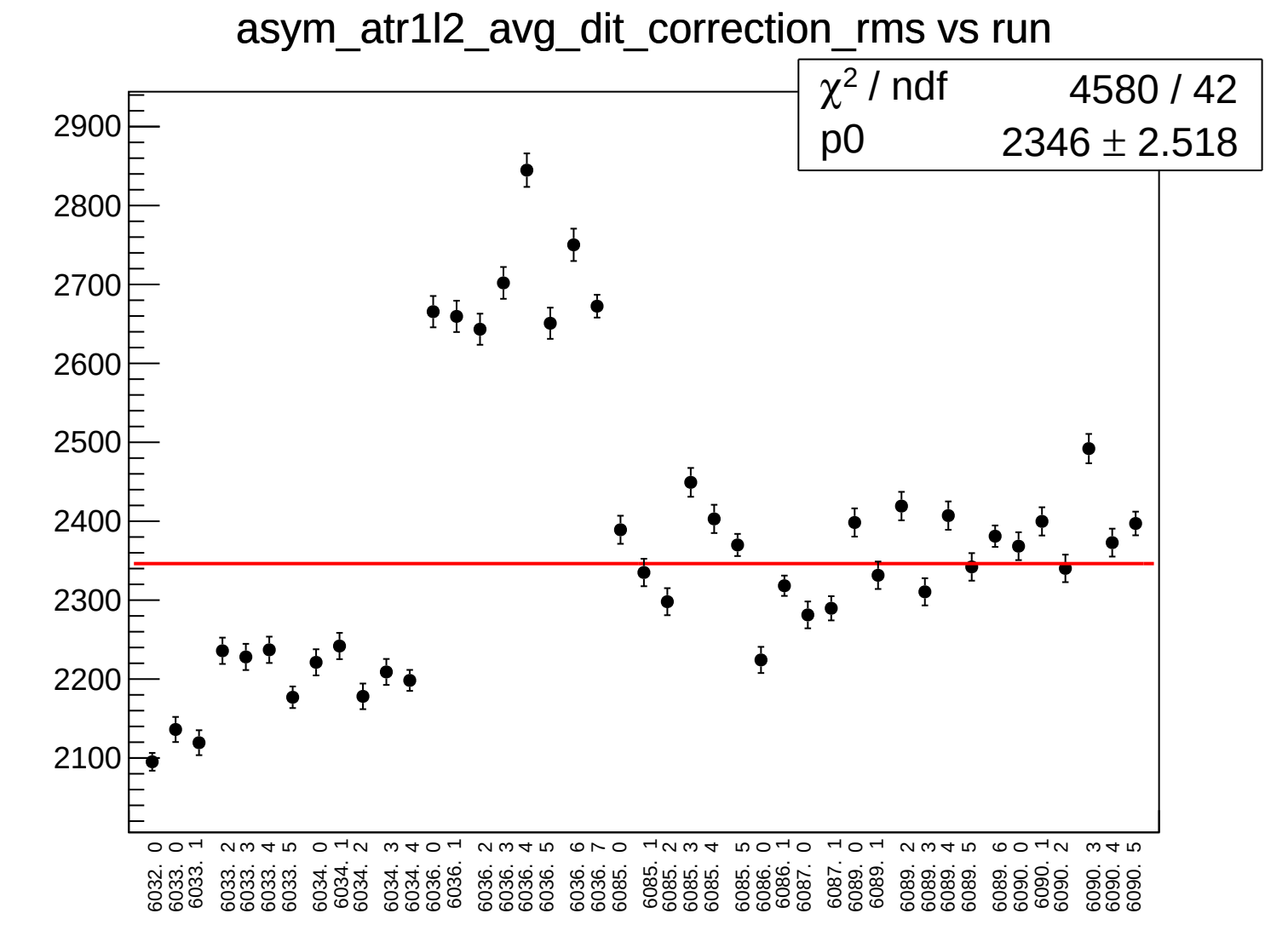

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 33.73 / 42
p0 −3469 ± 2573
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.219
Std Dev 13.79
2
1.5
1
0.5
0
−0.5
−1
−1.5

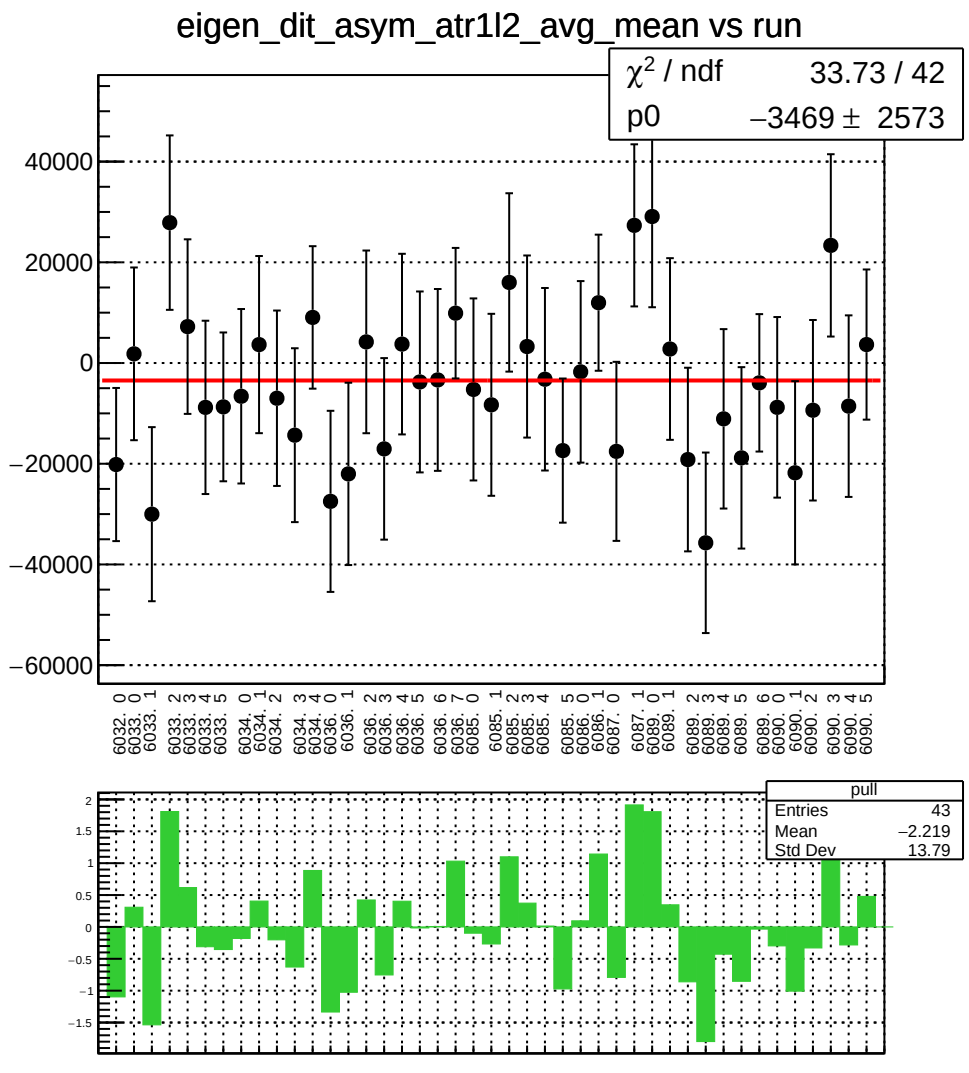

pull1D
Entries 43
Mean −0.019
Std Dev 0.8855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

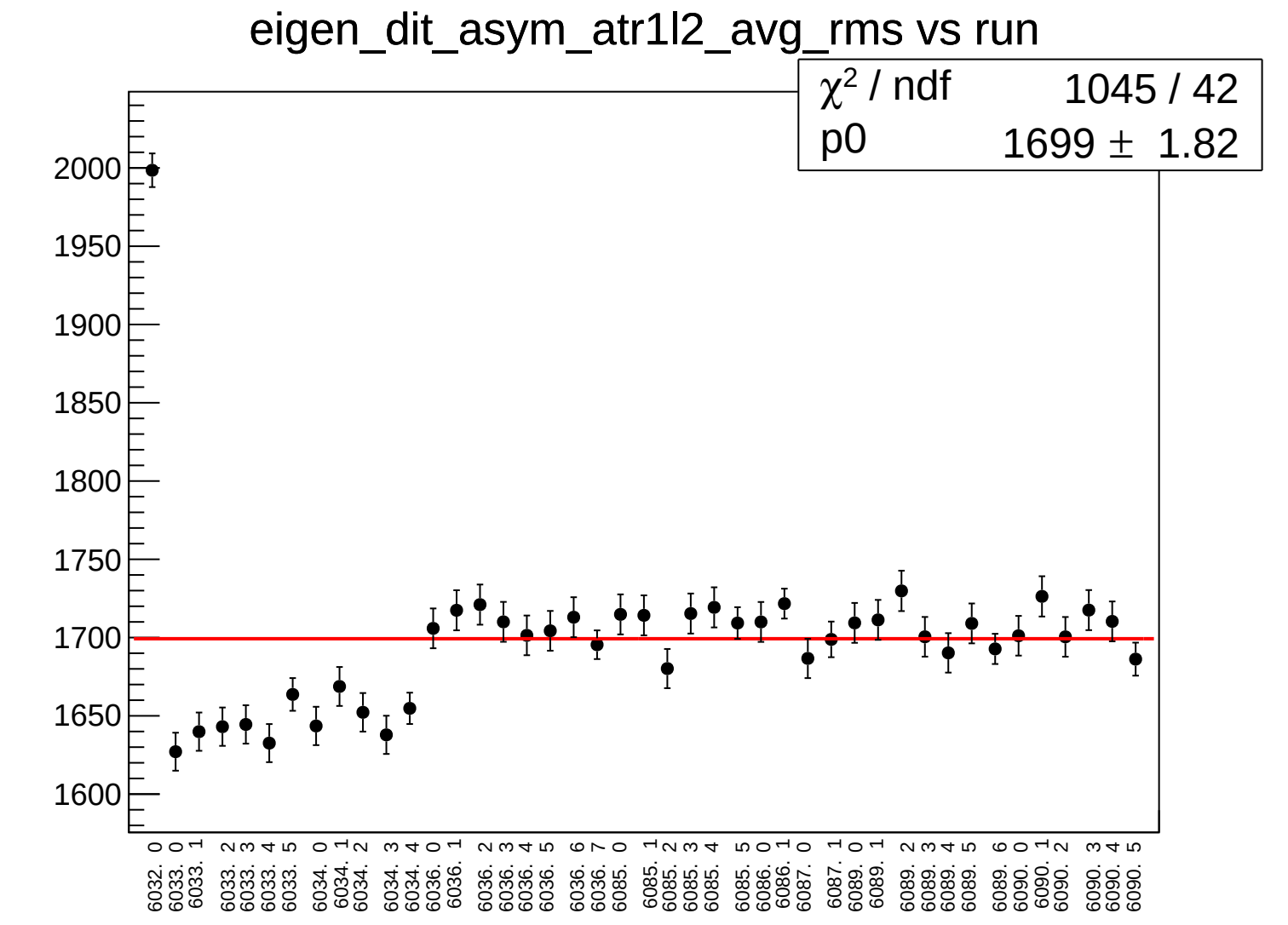

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1045 / 42
p0 1699 ± 1.82
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

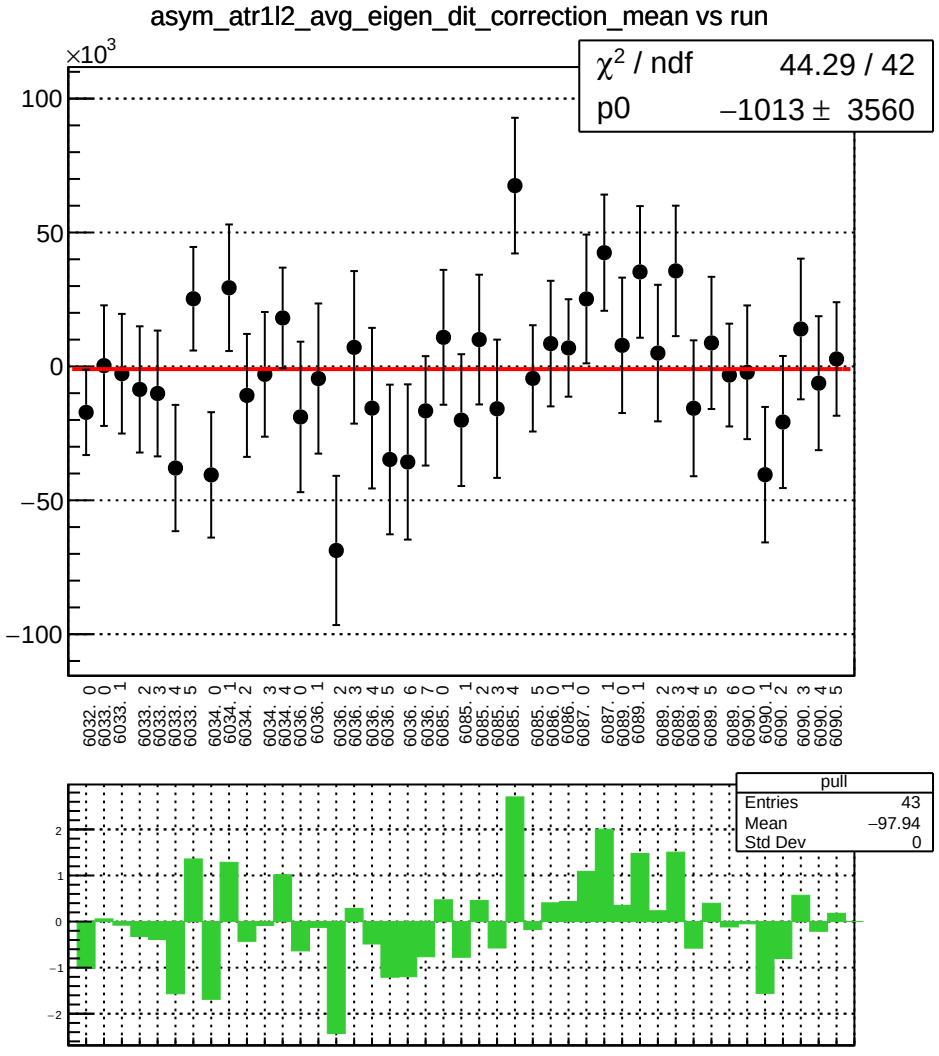

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 44.29 / 42
p0 −1013 ± 3560
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −97.94
Std Dev 0
2
1
0
−1
−2

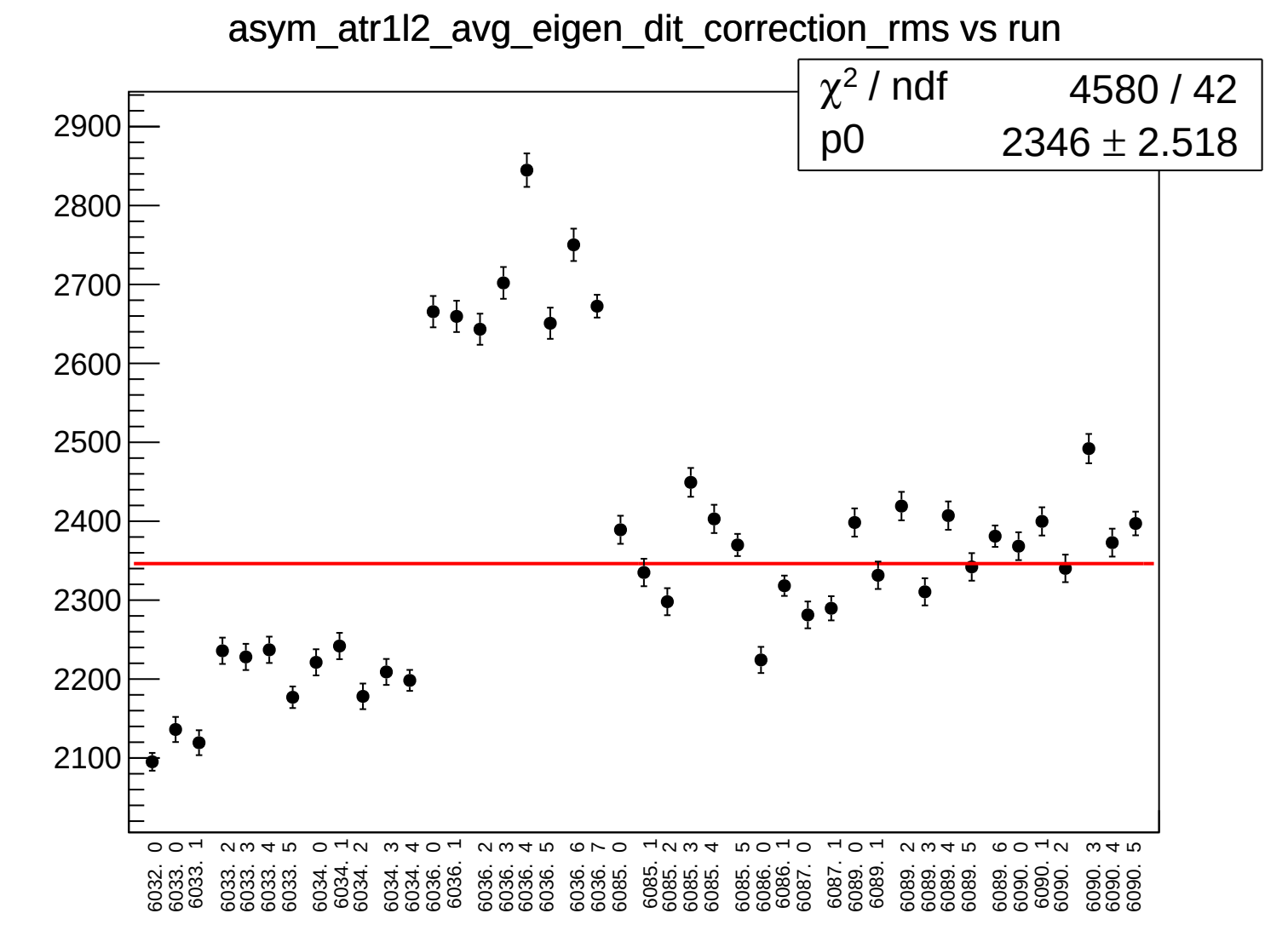

pull1D
Entries 43
Mean −0.0222
Std Dev 1.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

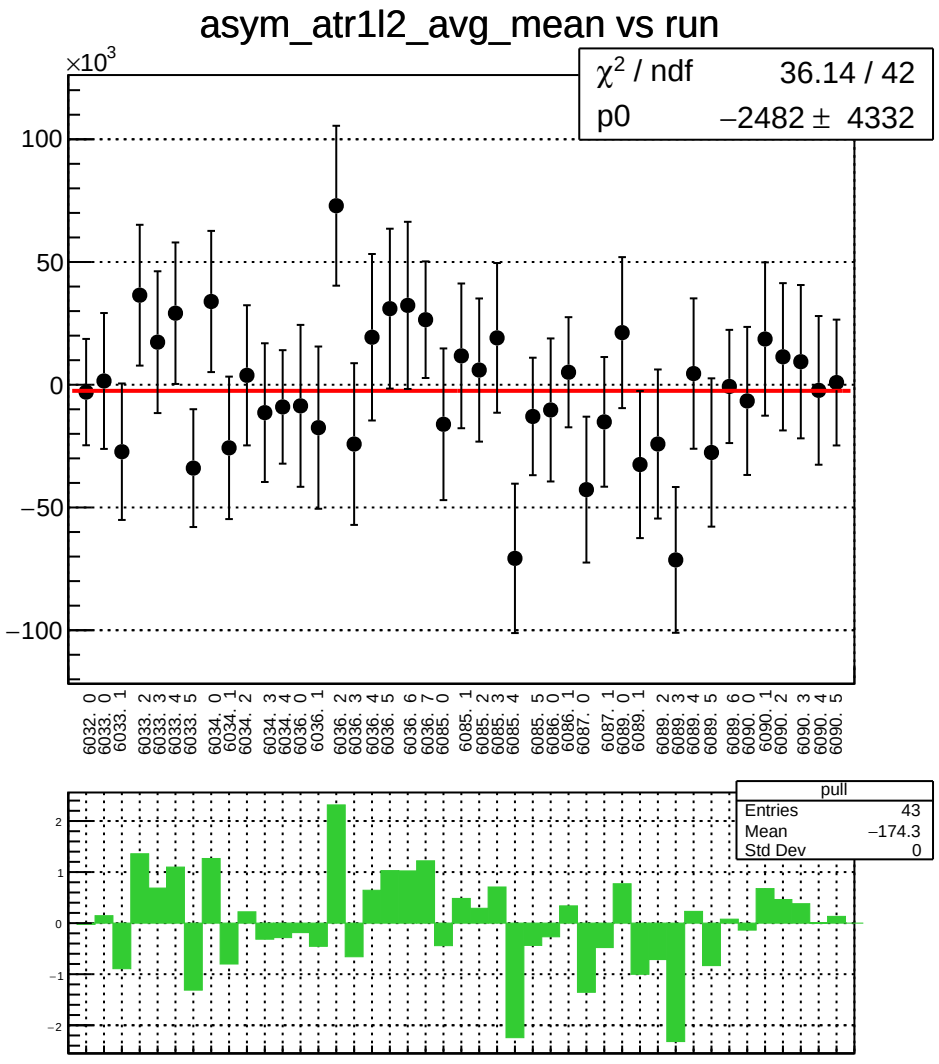

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4580 / 42
p0 2346 ± 2.518
2900
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

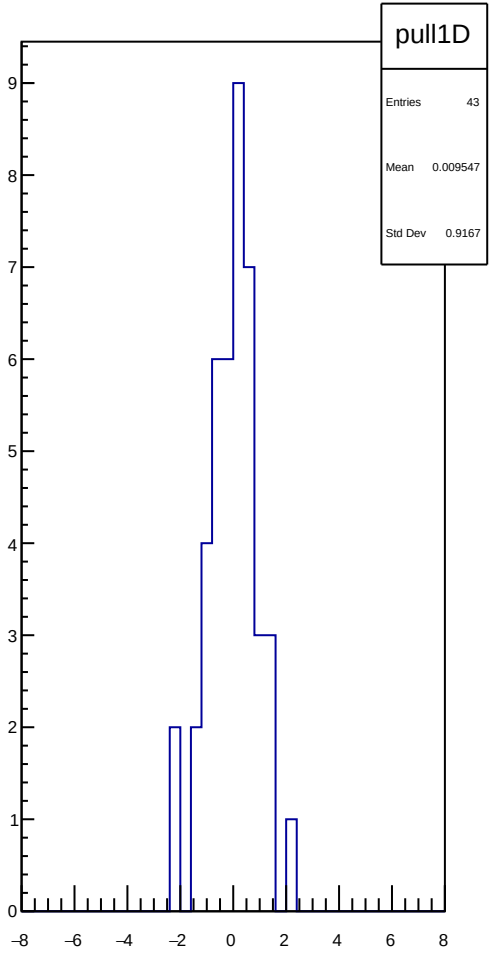

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 33.73 / 42
p0 −3469 ± 2573
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.219
Std Dev 13.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.019
Std Dev 0.8855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

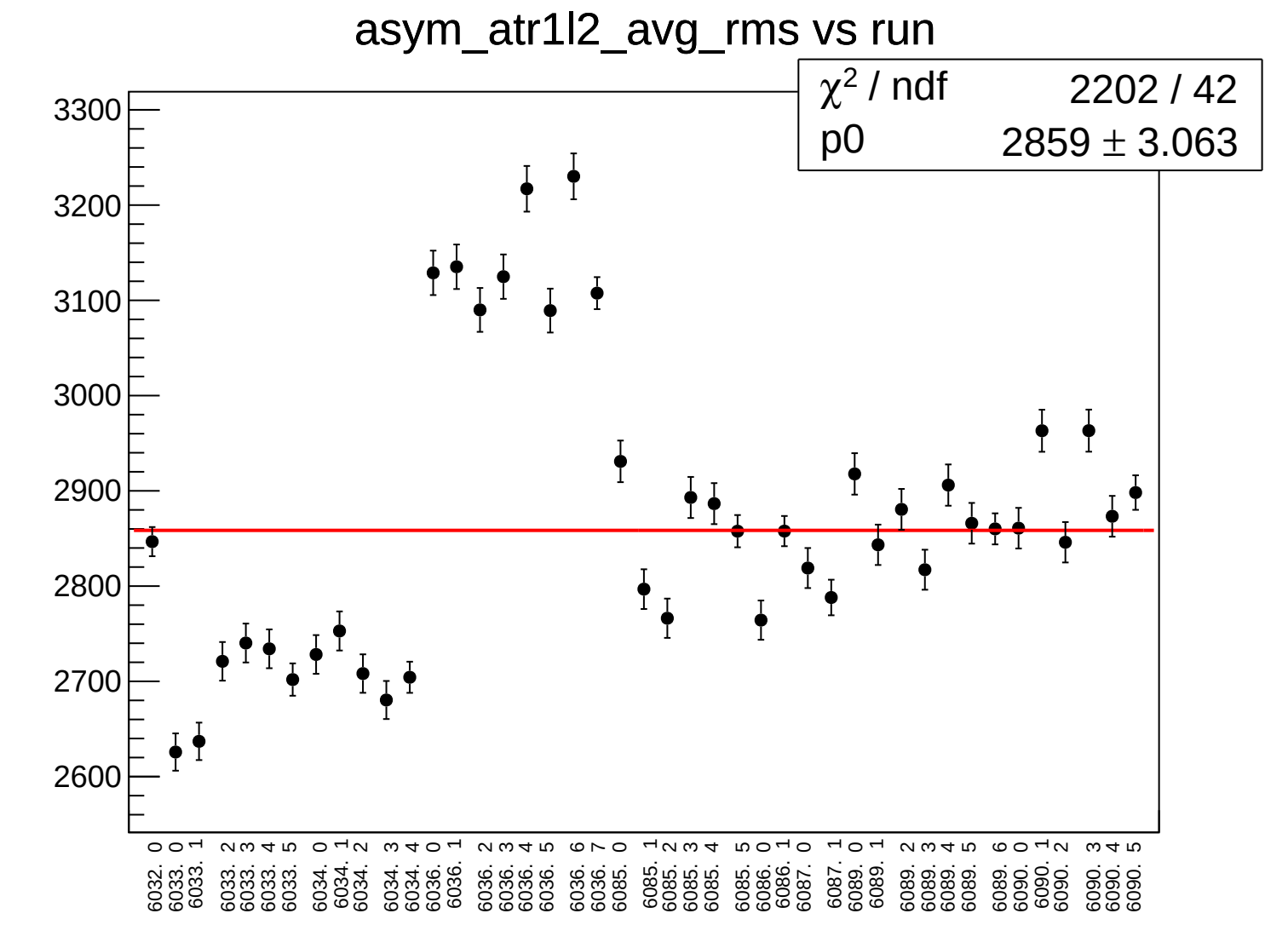

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1045 / 42
p0 1699 ± 1.82
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

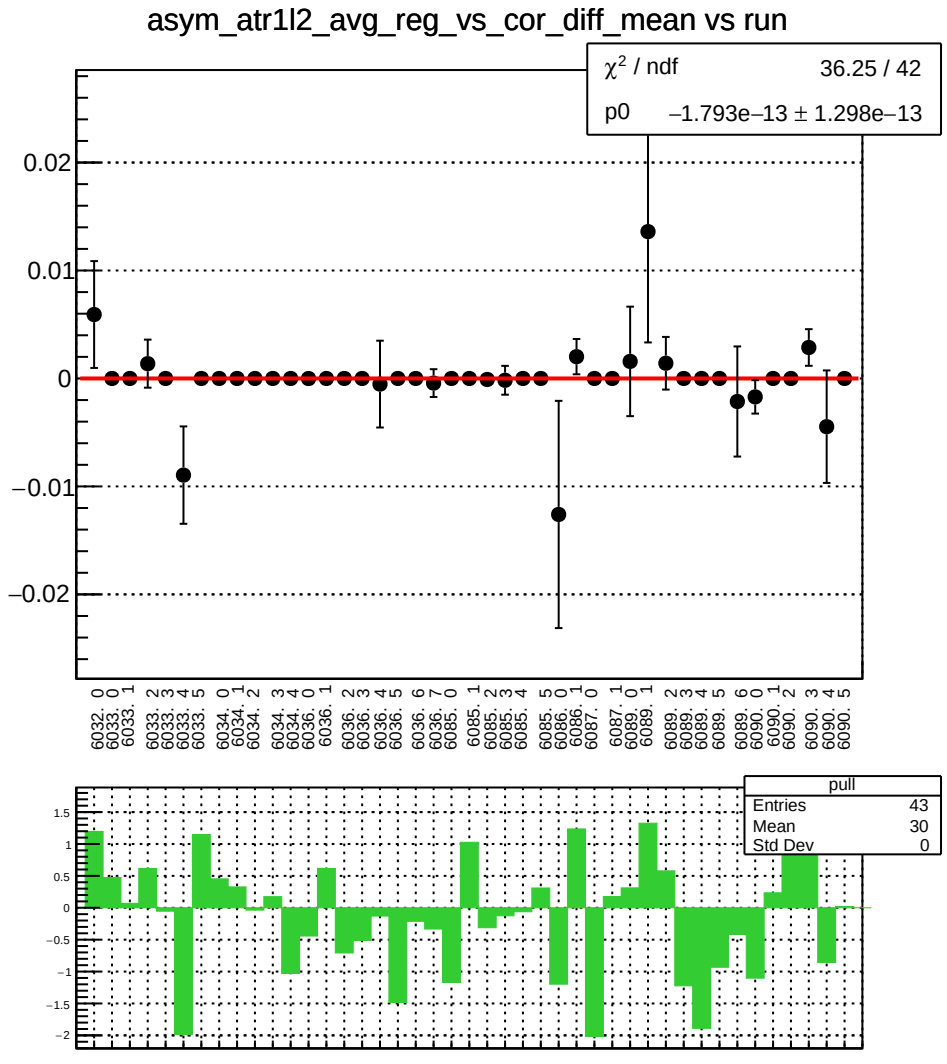

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 44.29 / 42
p0 −1013 ± 3560
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −97.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0222
Std Dev 1.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

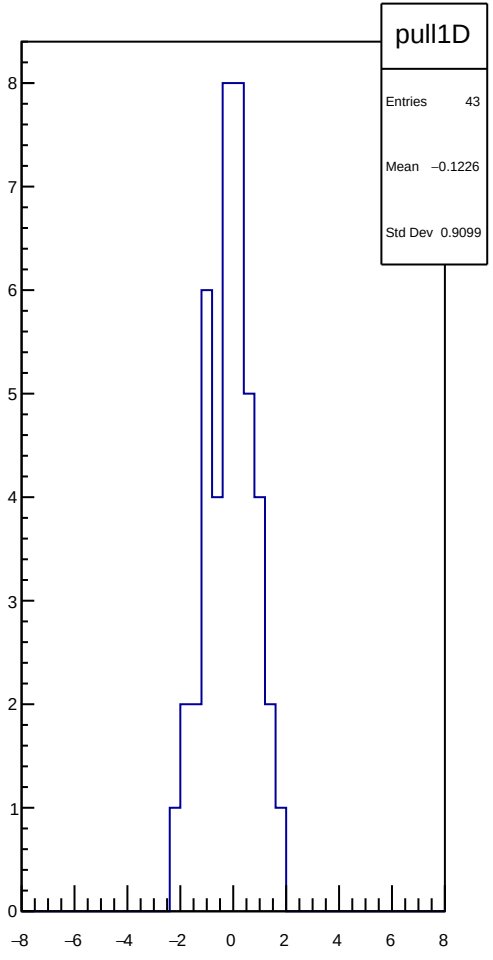

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4580 / 42
p0 2346 ± 2.518
2900
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

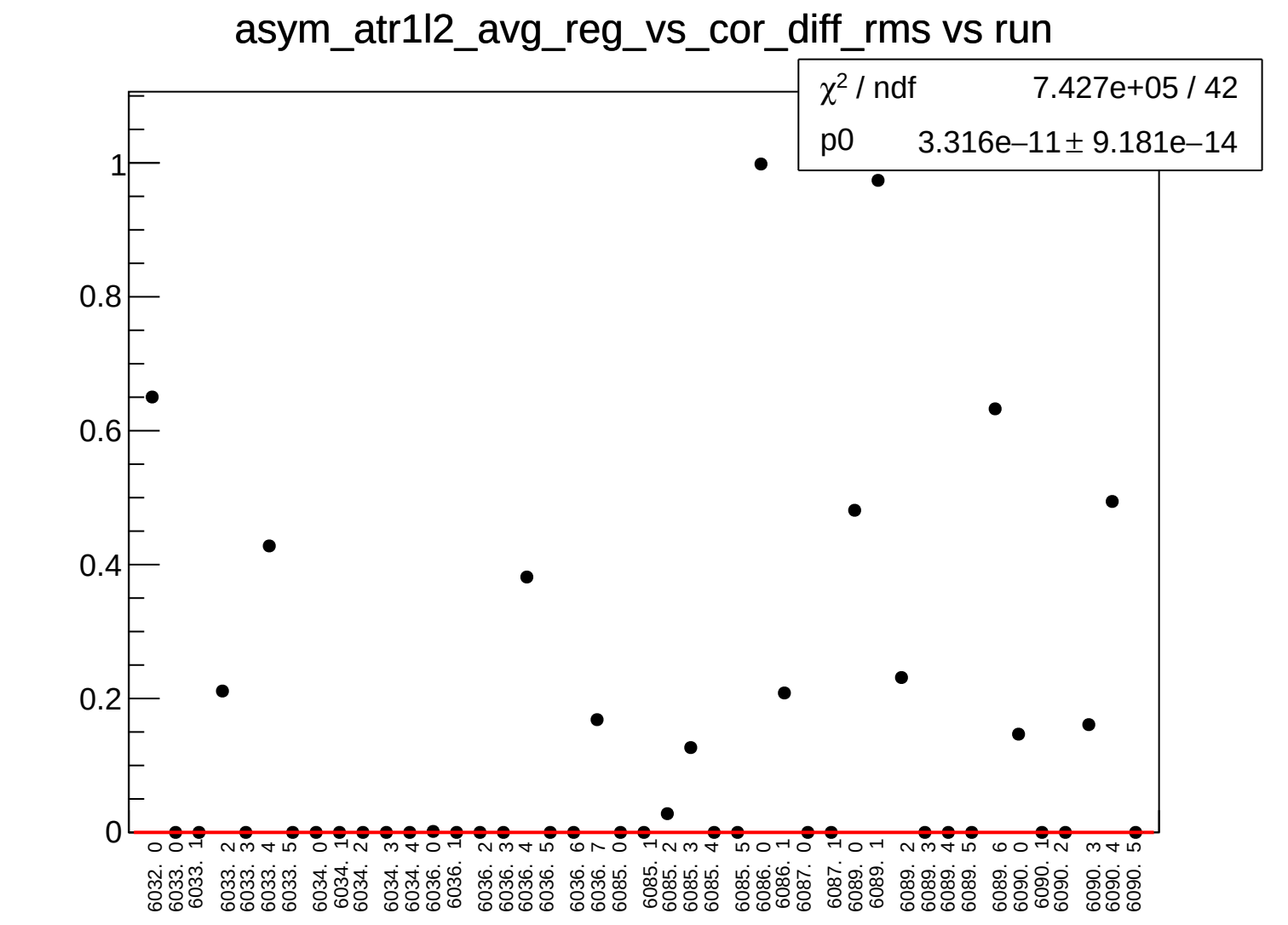

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 36.14 / 42
p0 −2482 ± 4332
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −174.3
Std Dev 0
2
1
0
−1
−2

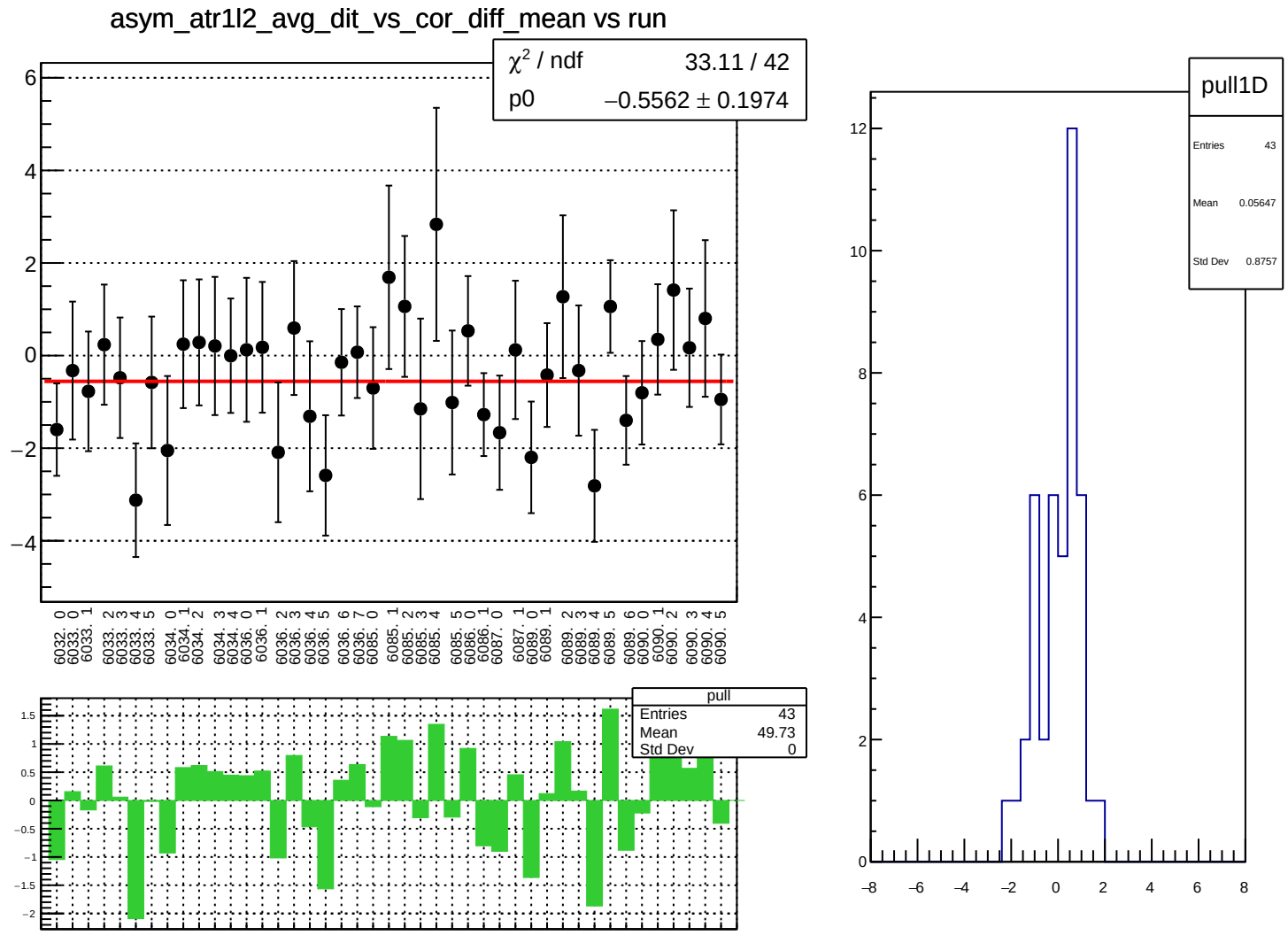

pull1D
Entries 43
Mean 0.009547
Std Dev 0.9167
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

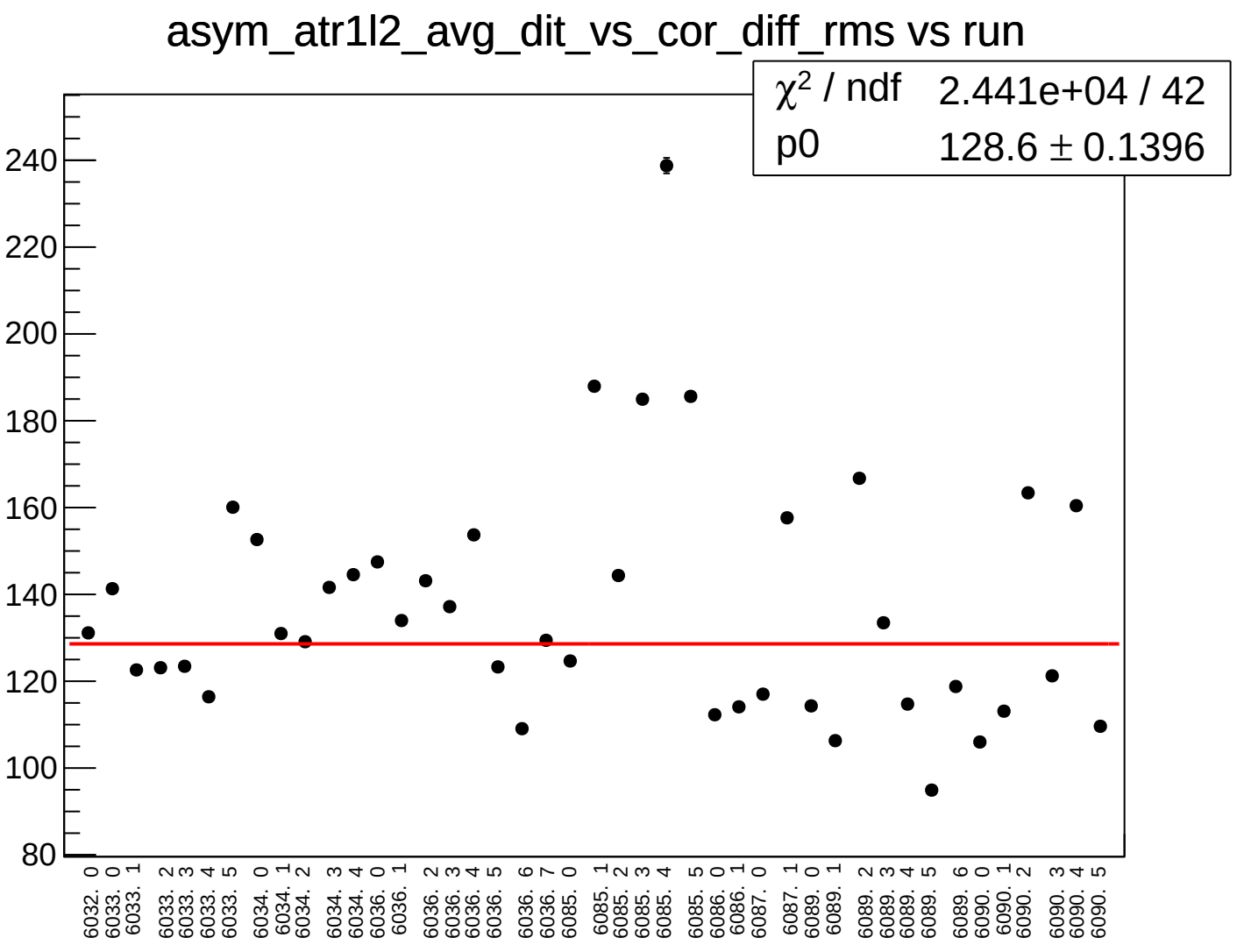

asym_atr1l2_avg_rms vs run
χ² / ndf 2202 / 42
p0 2859 ± 3.063
3300
3200
3100
3000
2900
2800
2700
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

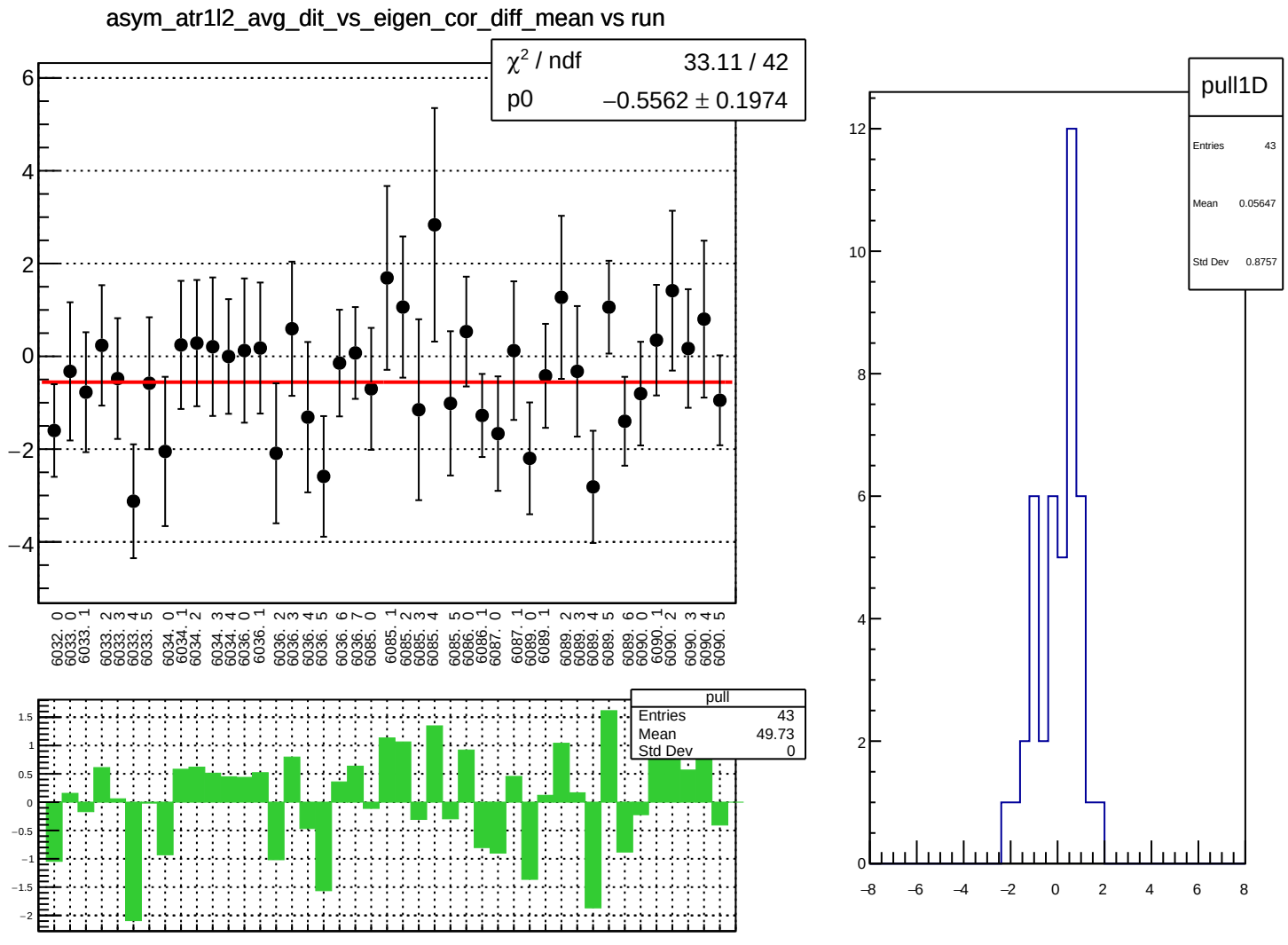

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.25 / 42
p0 −1.793e−13 ± 1.298e−13
0.02
0.01
0
−0.01
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 30
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

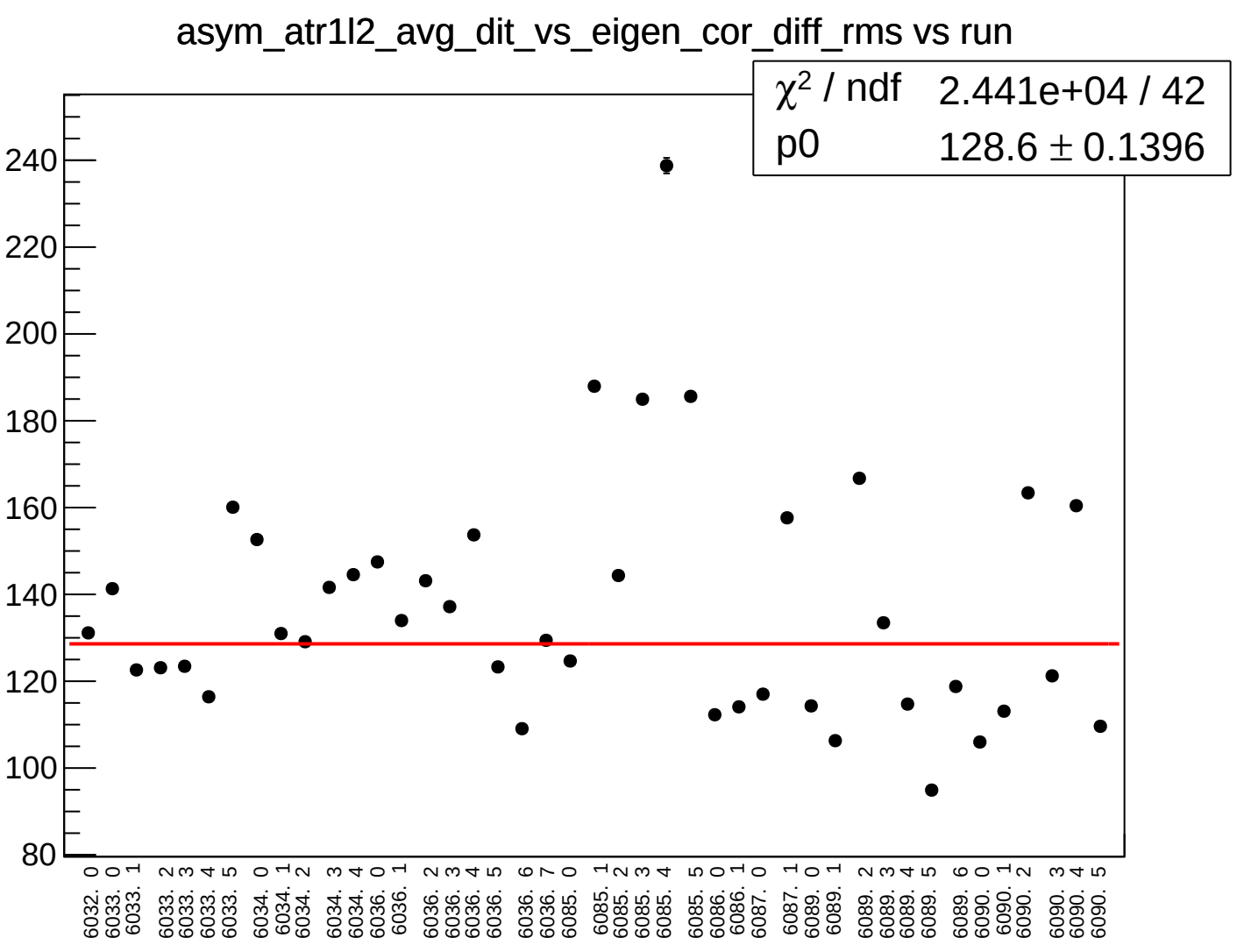

pull1D
Entries 43
Mean −0.1226
Std Dev 0.9099
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

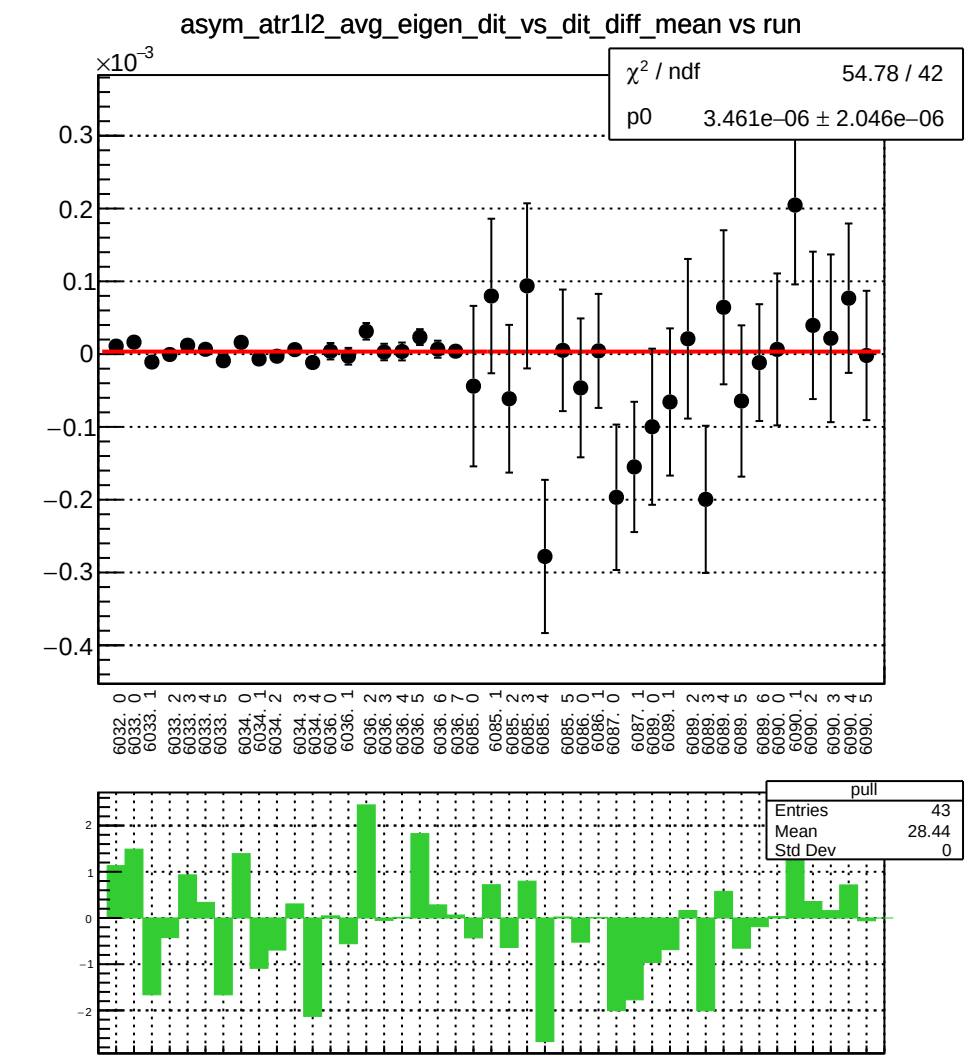

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.427e+05 / 42
p0 3.316e−11 ± 9.181e−14
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

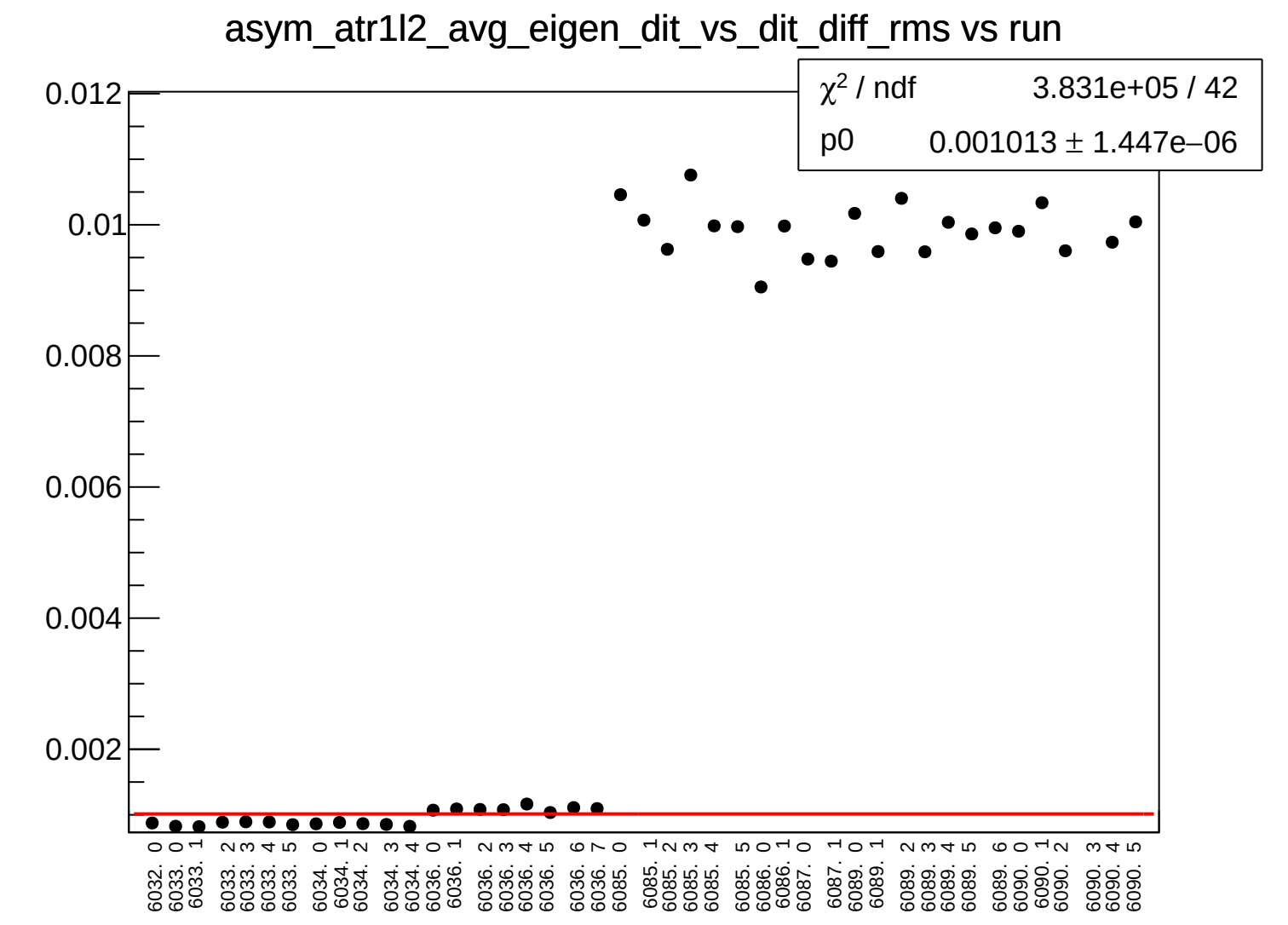

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.11 / 42
p0 −0.5562 ± 0.1974
pull
Entries 43
Mean 49.73
Std Dev 0
pull1D
Entries 43
Mean 0.05647
Std Dev 0.8757


asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 42
p0 128.6 ± 0.1396
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

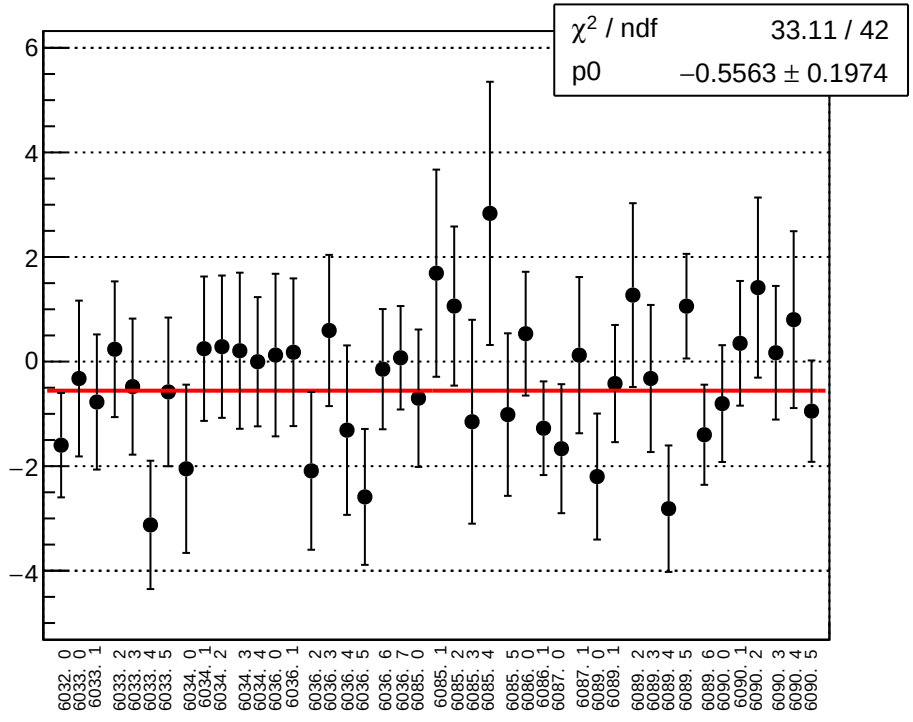

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.11 / 42
p0 −0.5562 ± 0.1974
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 49.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05647
Std Dev 0.8757
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

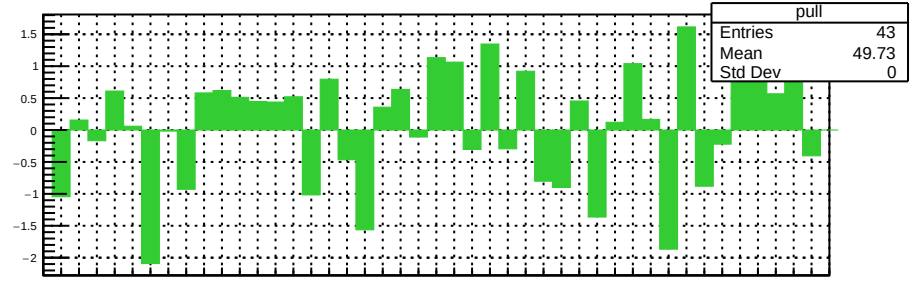

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 42
p0 128.6 ± 0.1396
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

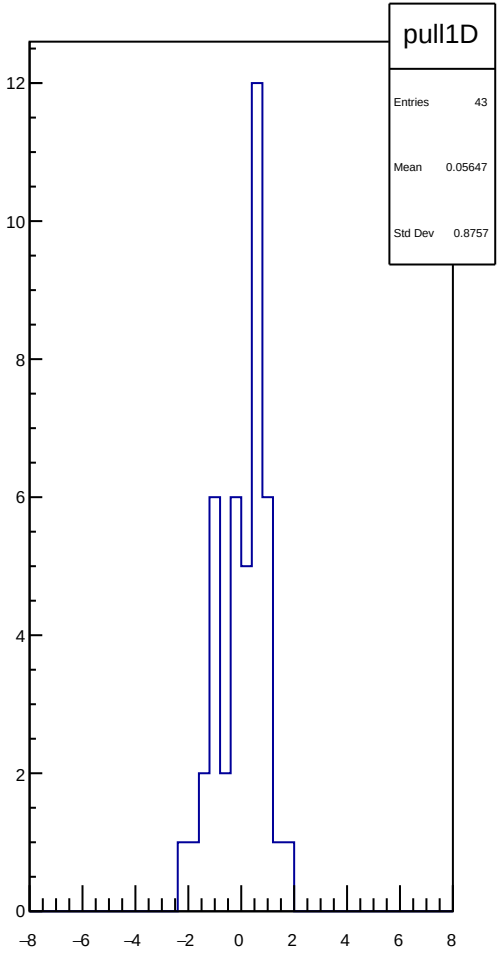

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.78 / 42
p0 3.461e−06 ± 2.046e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 28.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1211
Std Dev 1.122
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

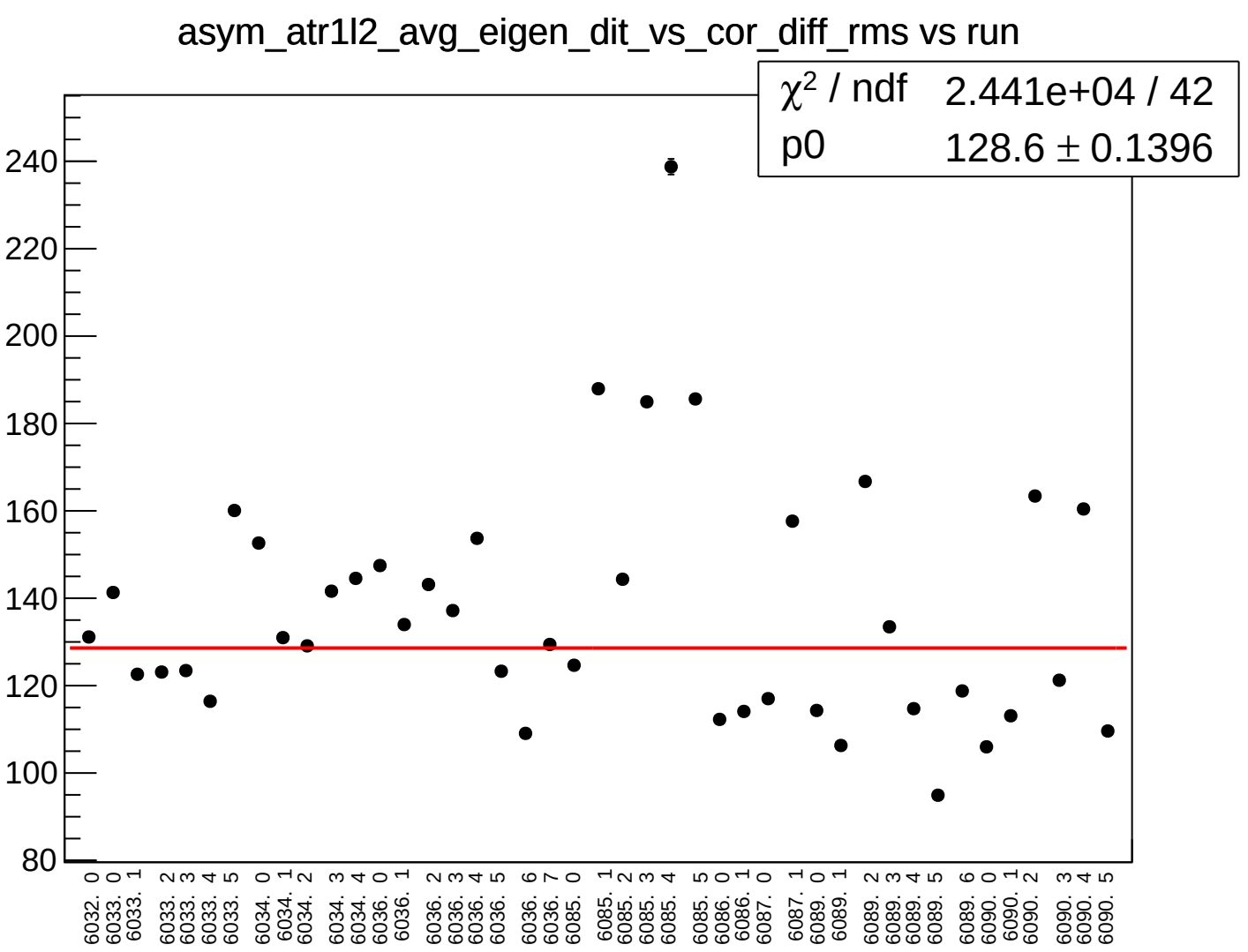

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.831e+05 / 42
p0 0.001013 ± 1.447e−06
0.012
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

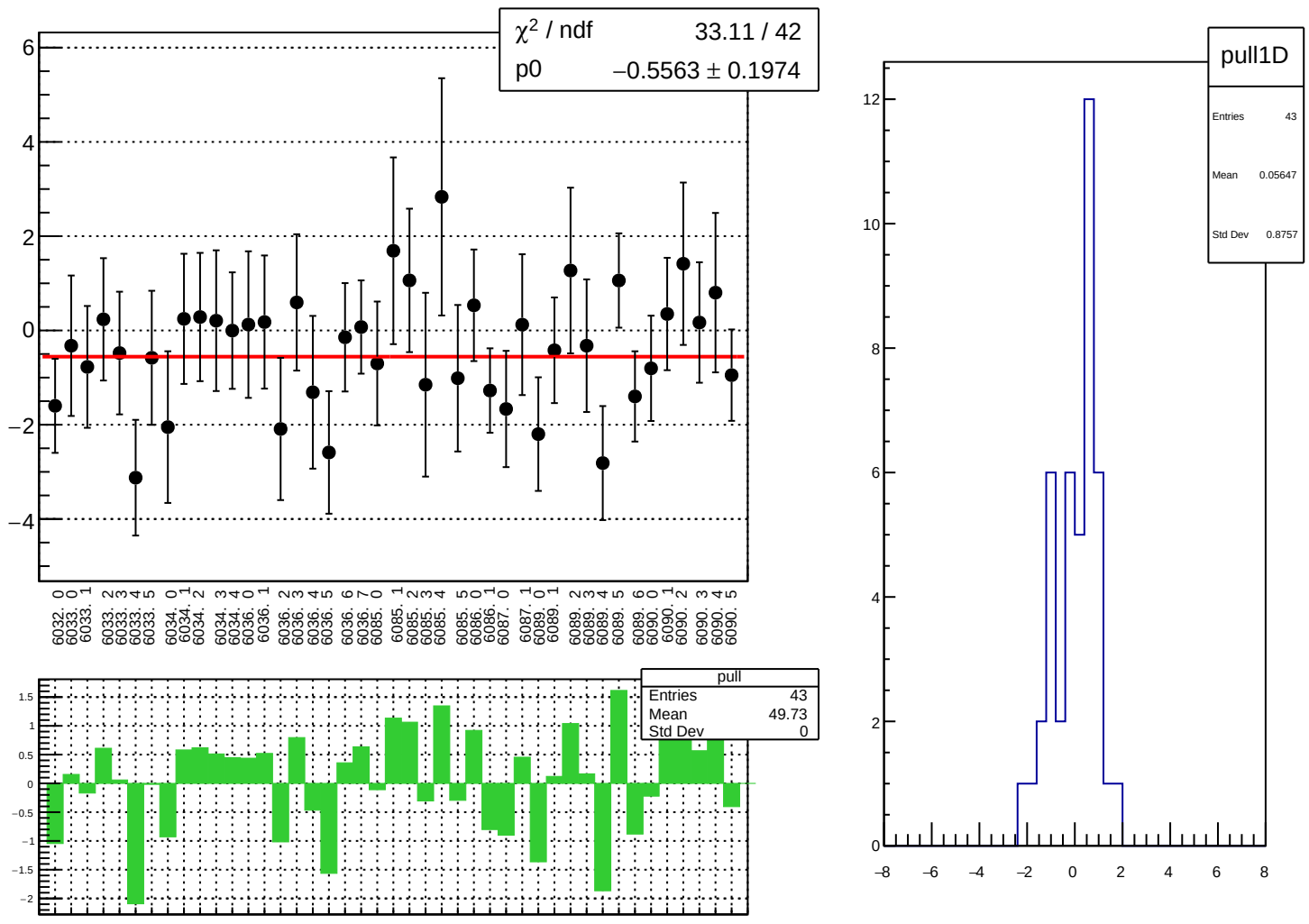
asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run

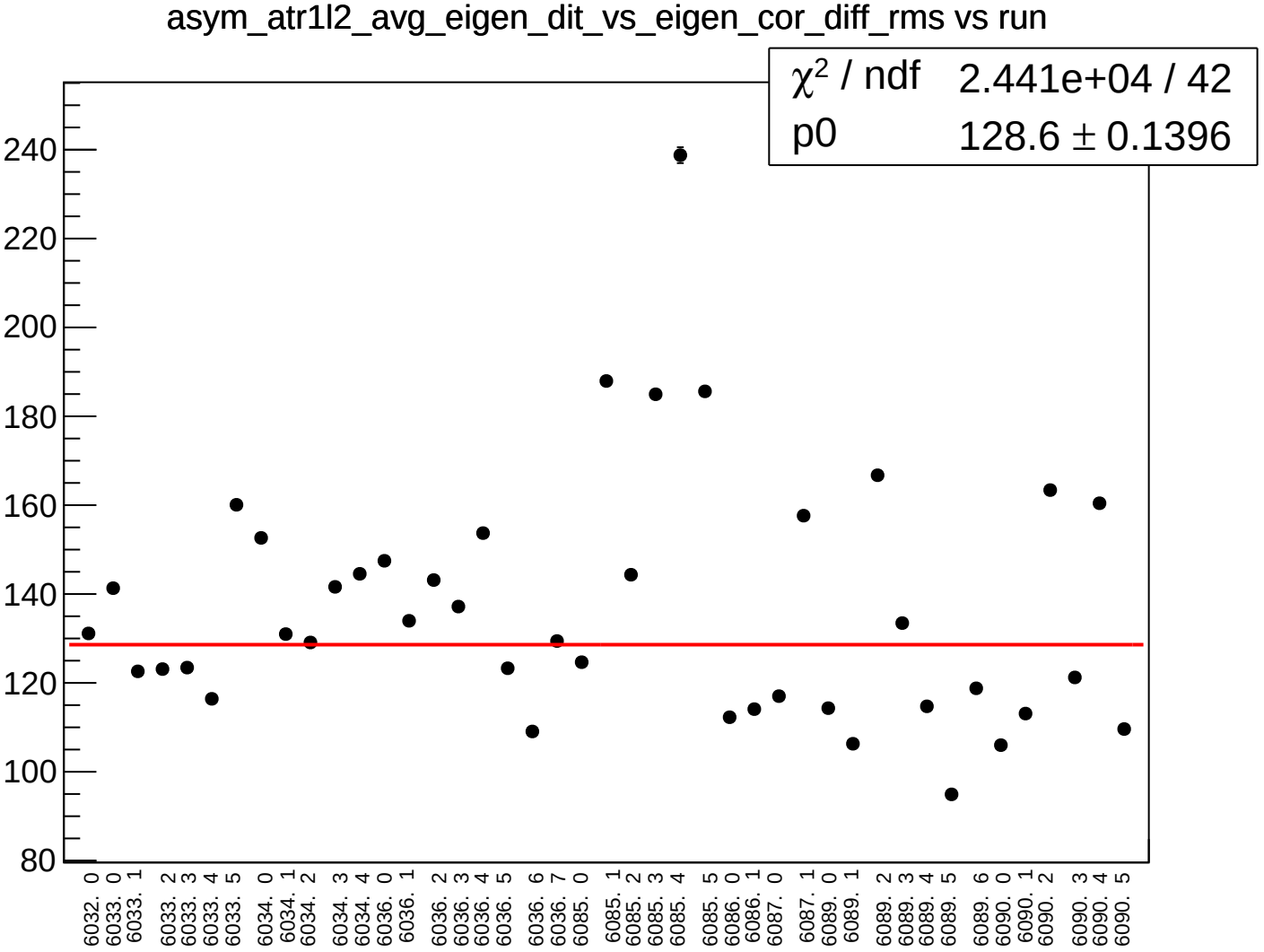


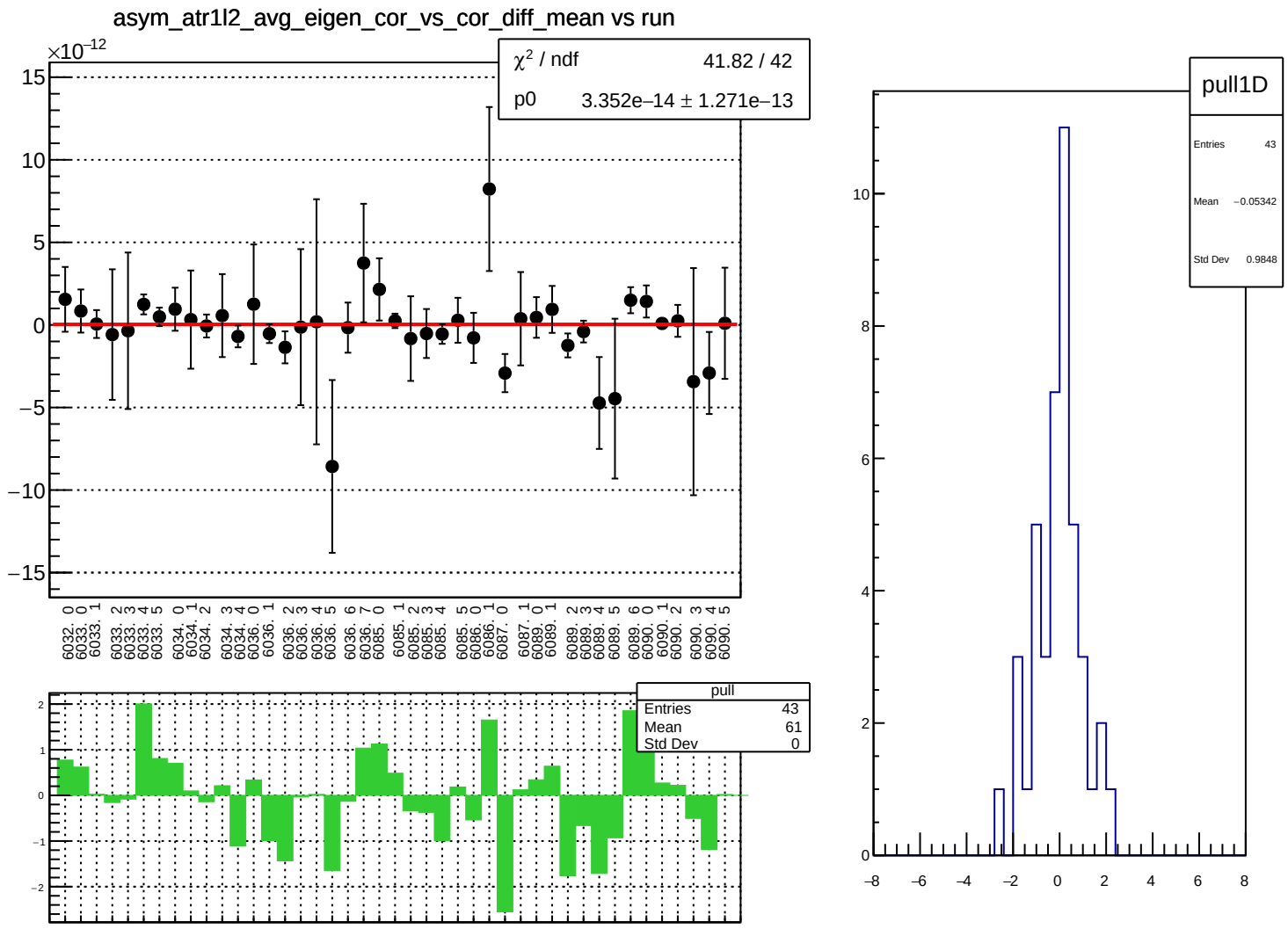


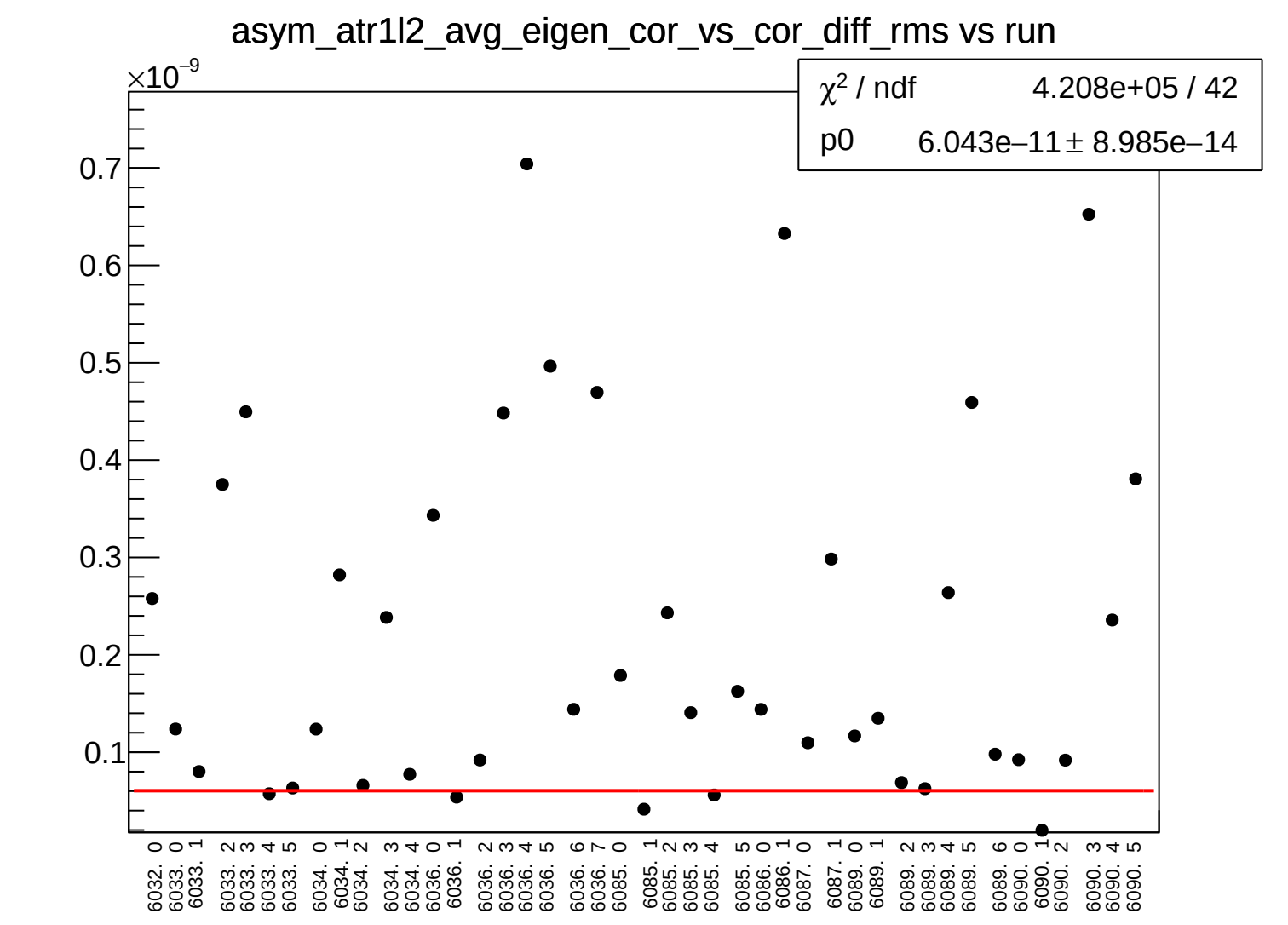


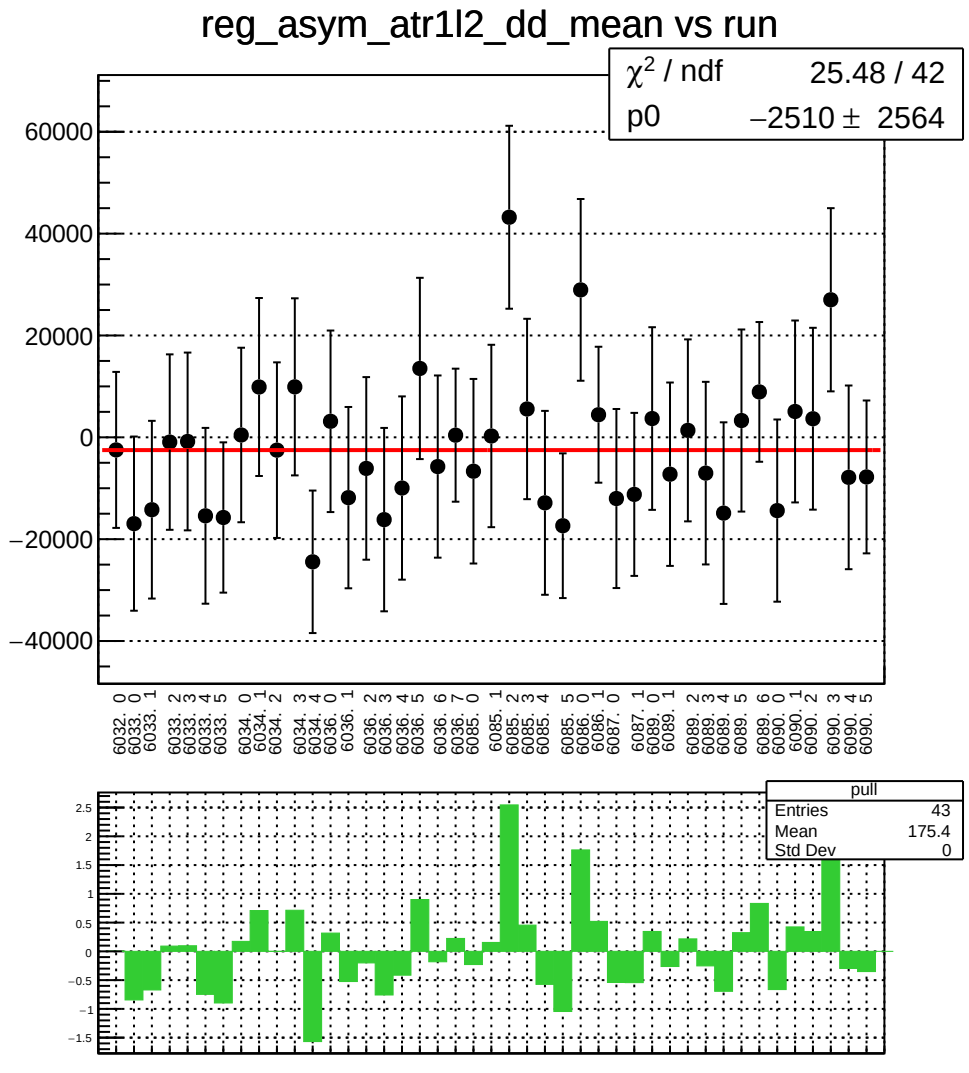

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 42
p0 128.6 ± 0.1396
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

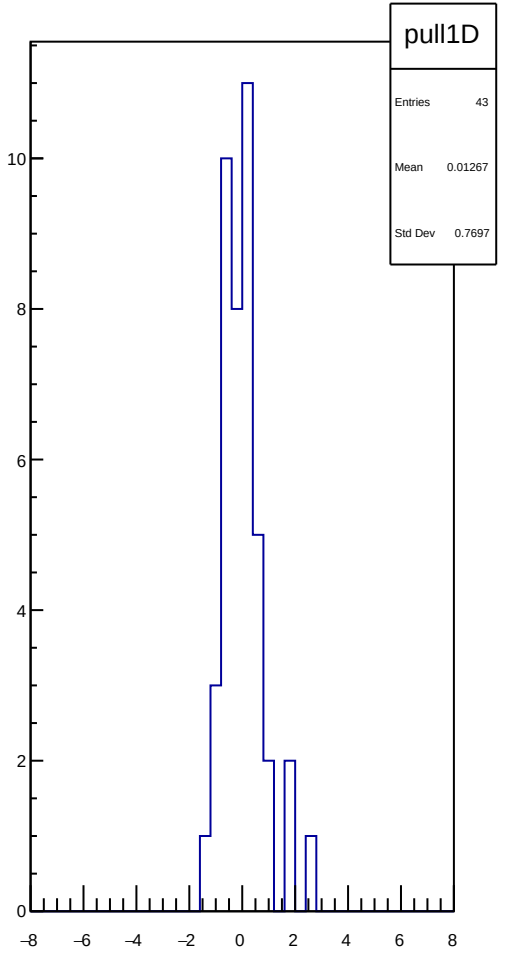

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.11 / 42
p0 −0.5563 ± 0.1974
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 49.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05647
Std Dev 0.8757
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

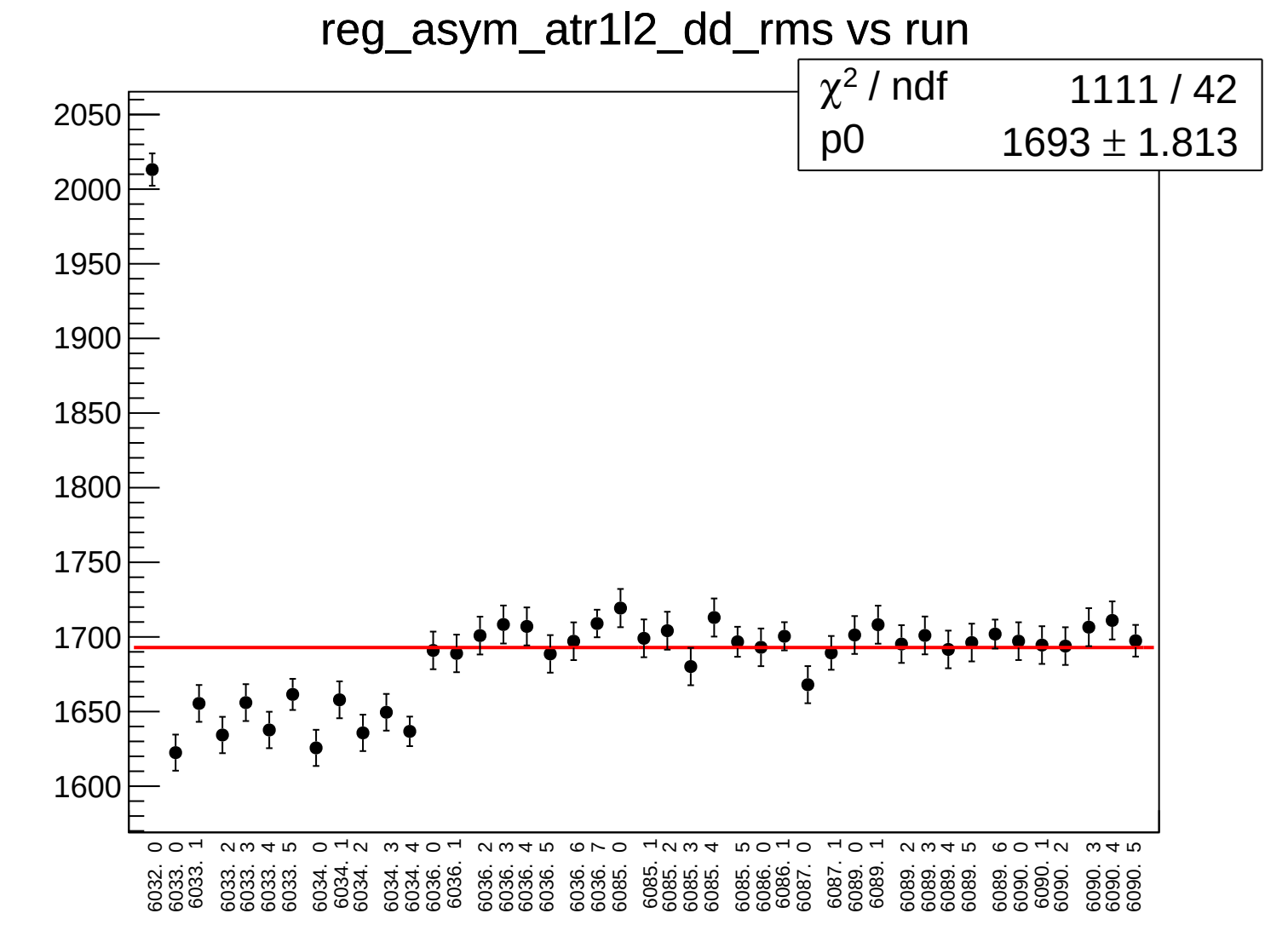

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.441e+04 / 42
p0 128.6 ± 0.1396
240
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

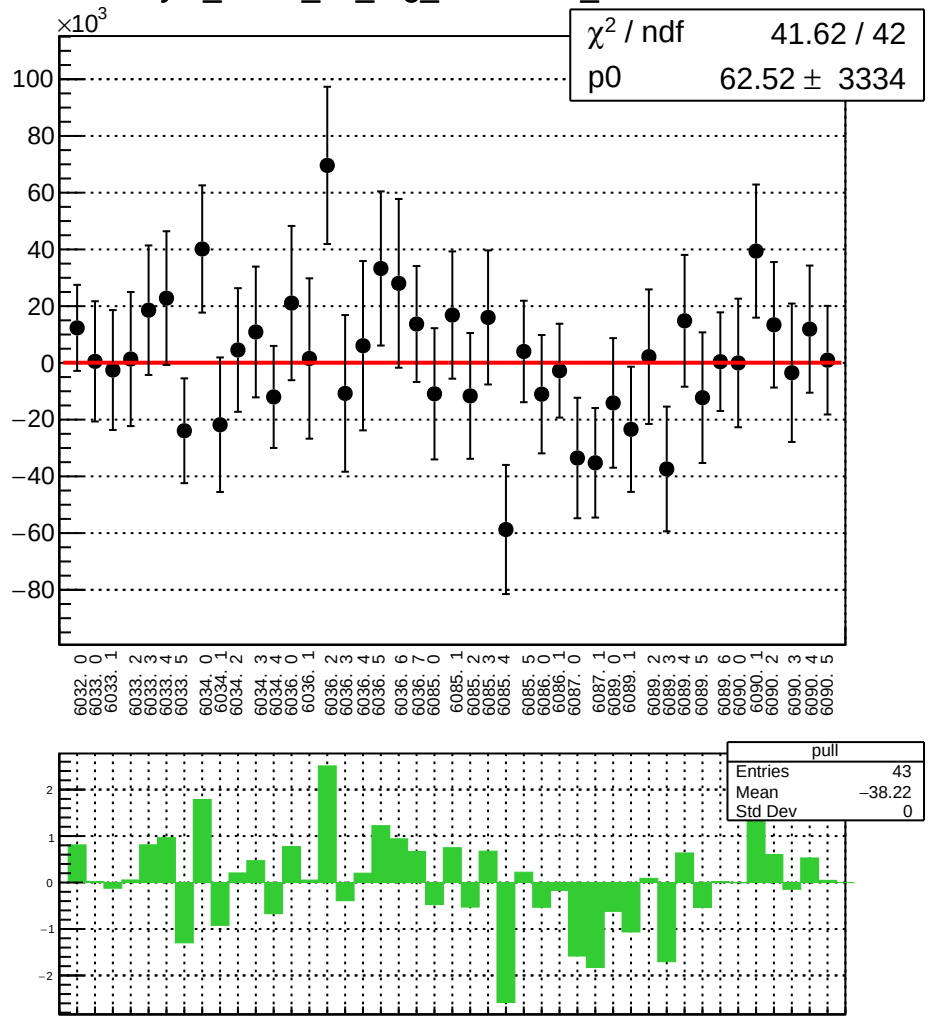

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 41.82 / 42
p0 3.352e−14 ± 1.271e−13
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05342
Std Dev 0.9848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

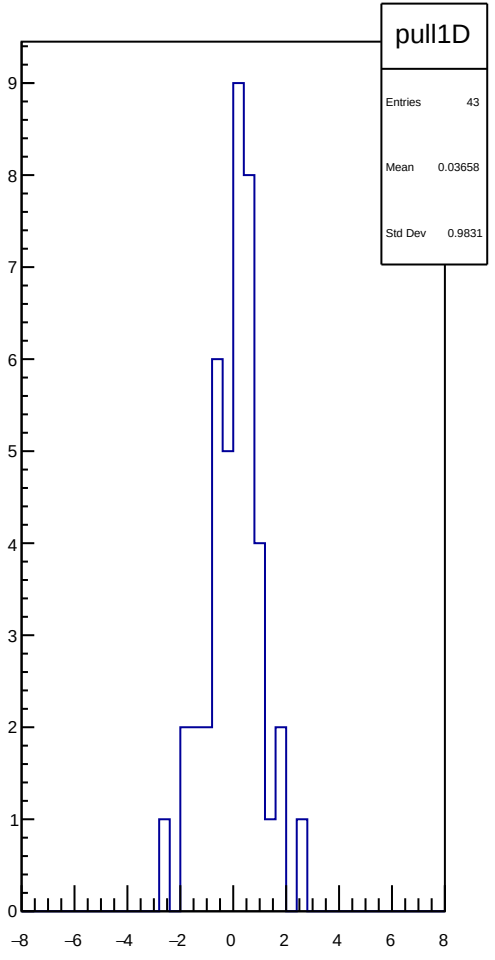

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.208e+05 / 42
p0 6.043e−11 ± 8.985e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

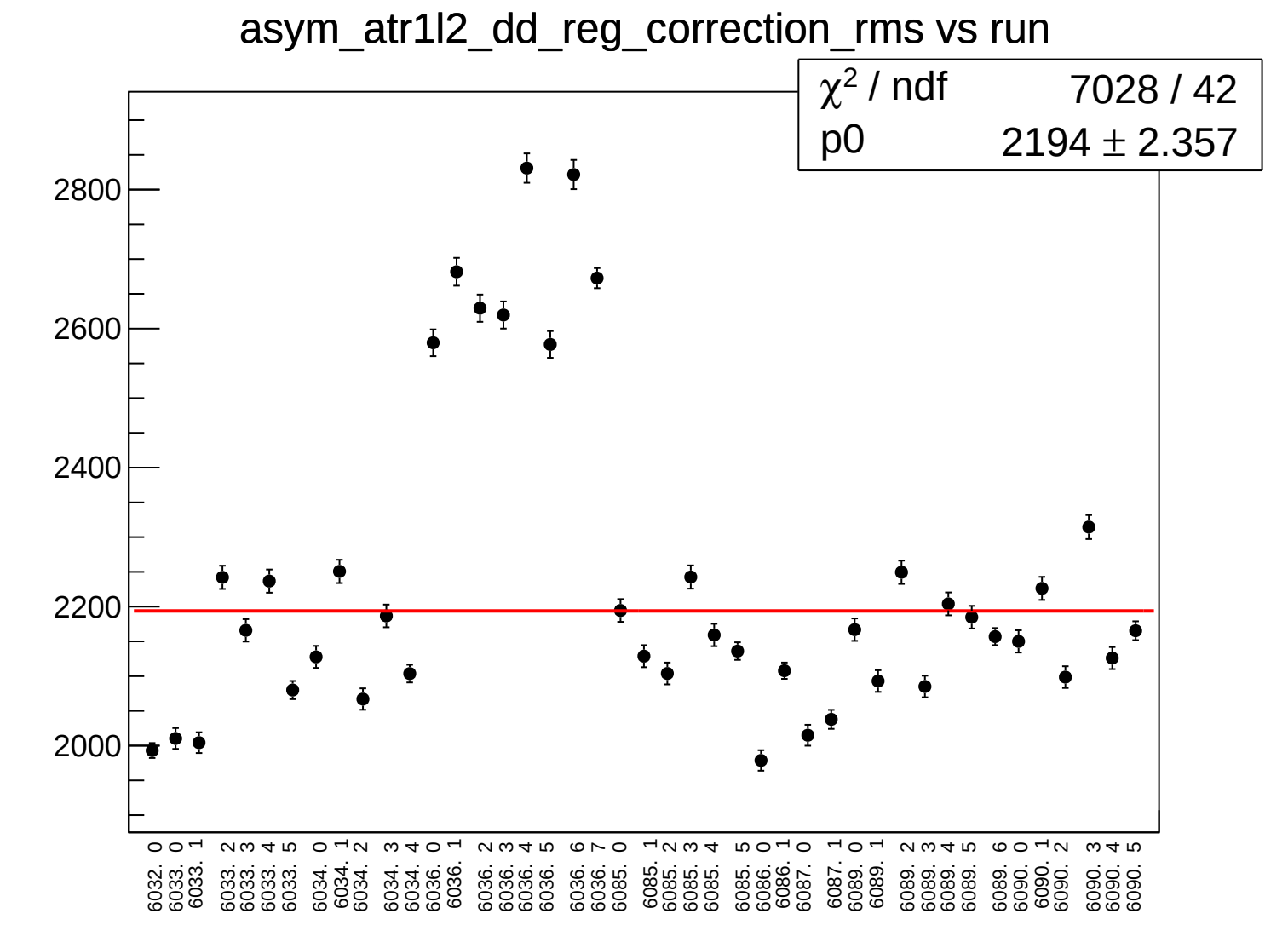

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 25.48 / 42
p0 −2510 ± 2564
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 175.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

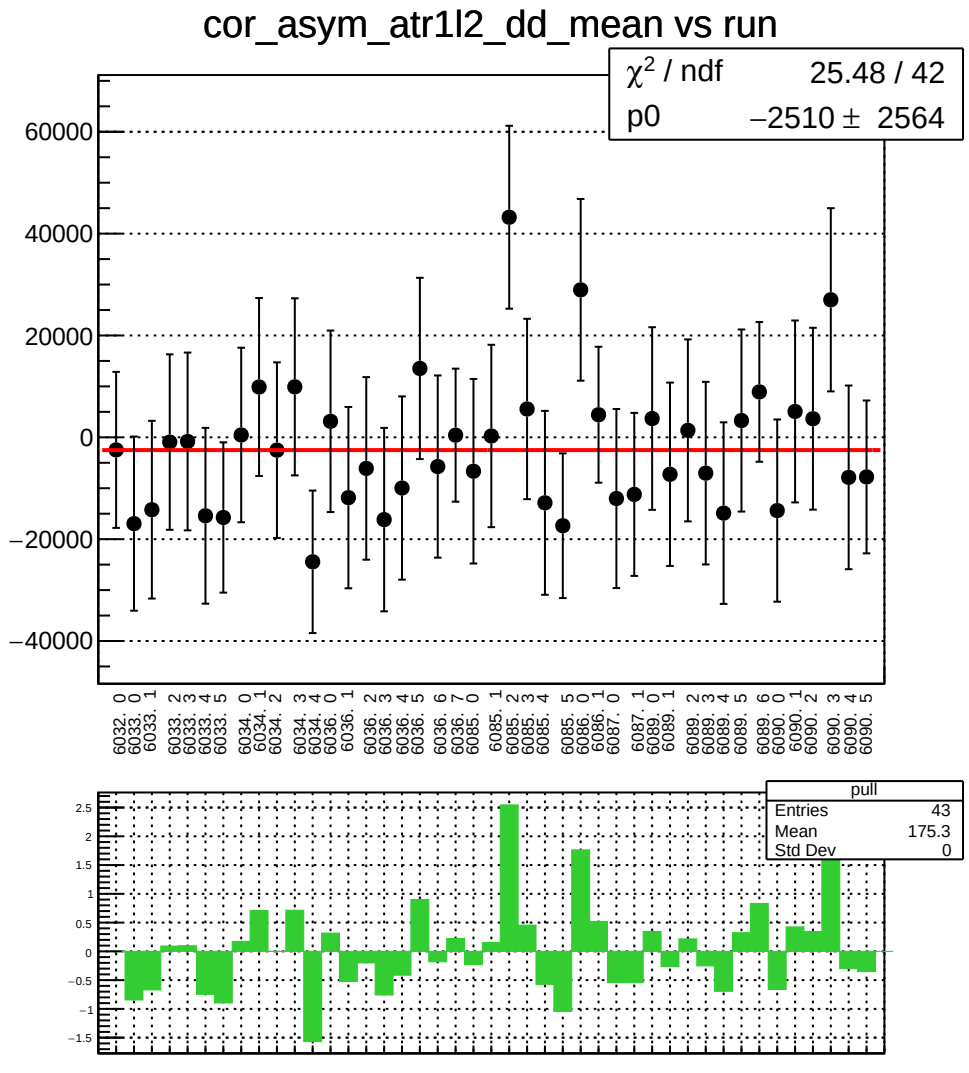

pull1D
Entries 43
Mean 0.01267
Std Dev 0.7697
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

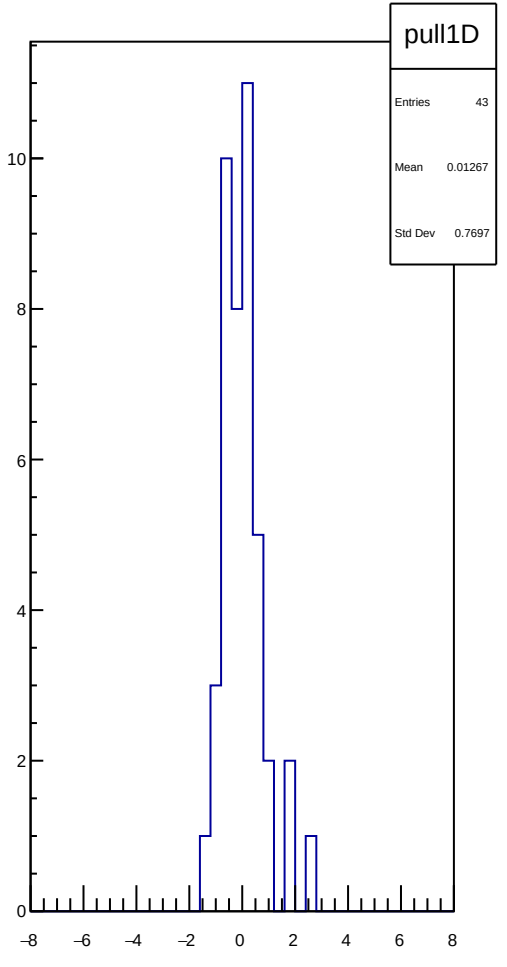

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1111 / 42
p0 1693 ± 1.813
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

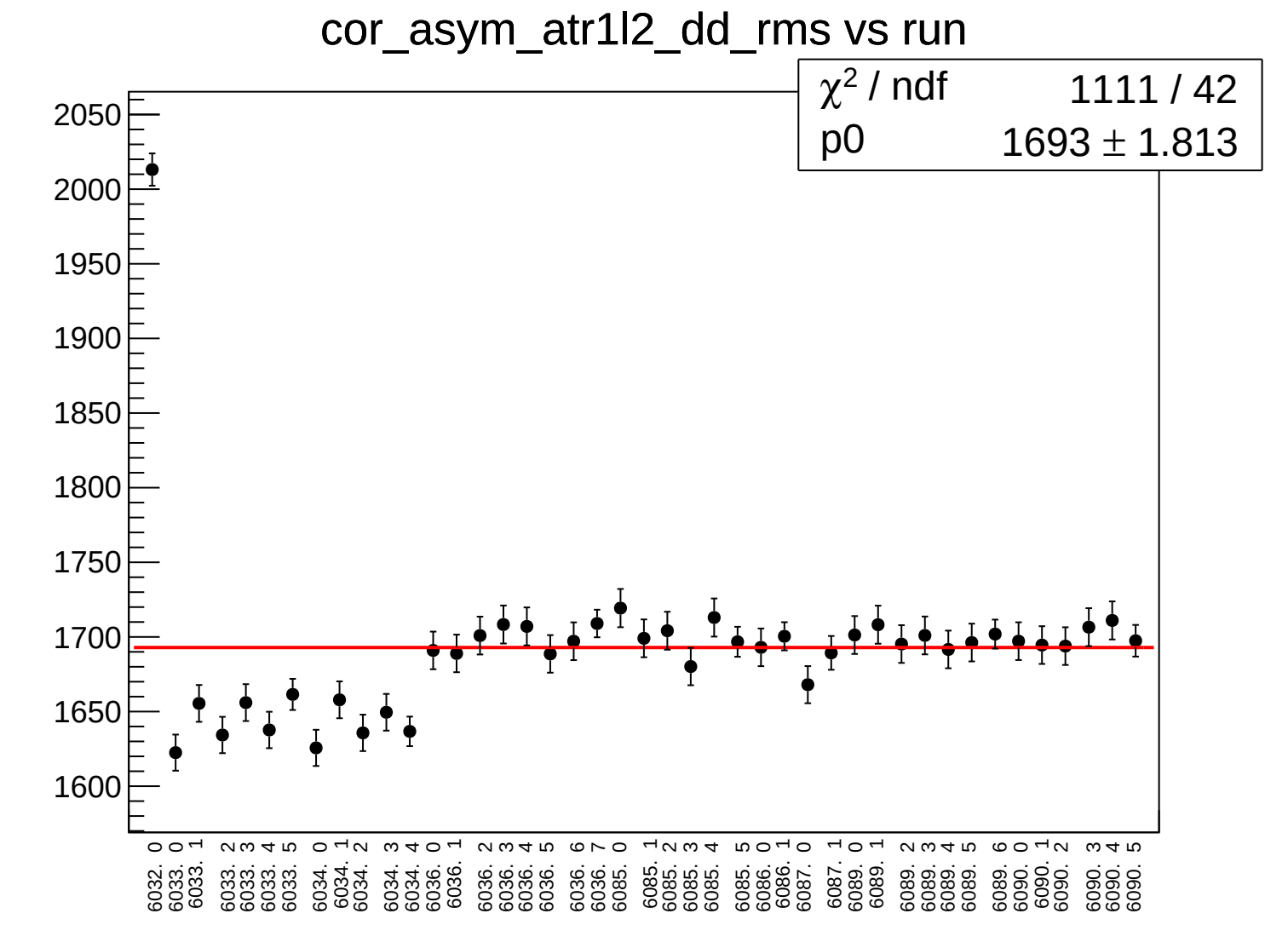

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.62 / 42
p0 62.52 ± 3334
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −38.22
Std Dev 0
2
1
0
−1
−2

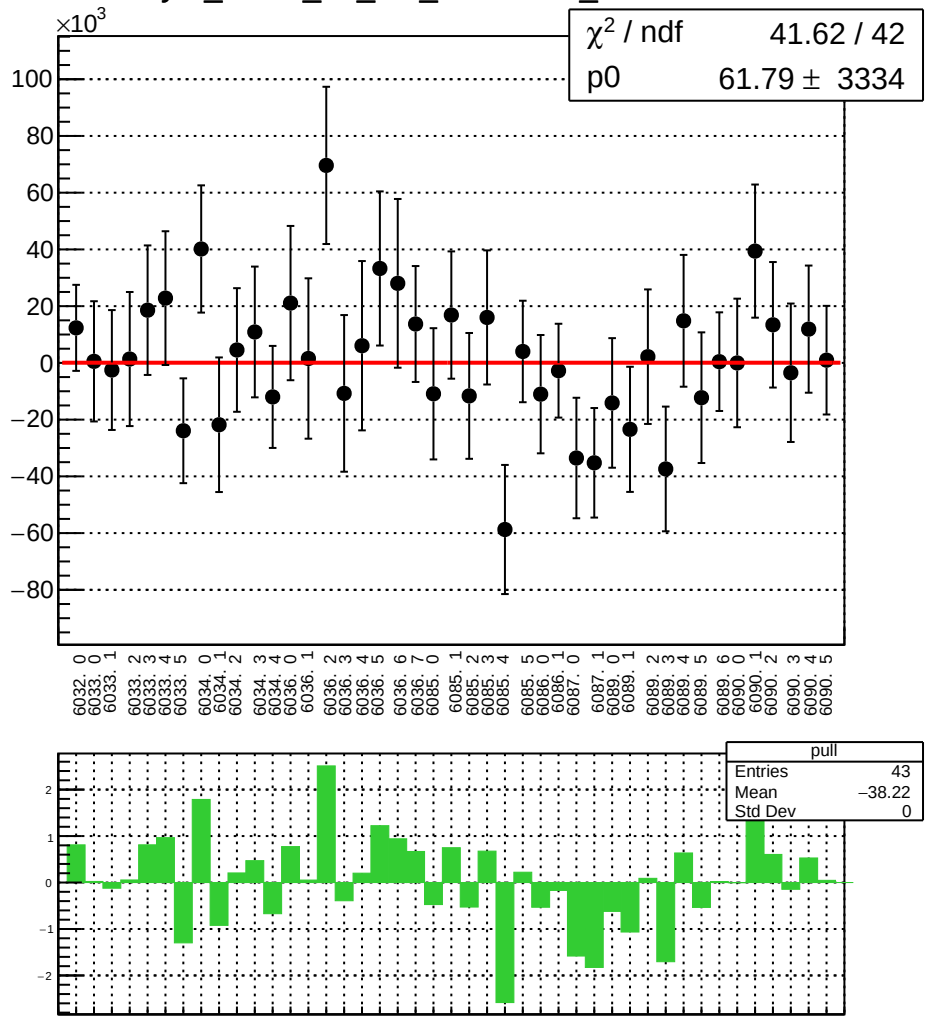

pull1D
Entries 43
Mean 0.03658
Std Dev 0.9831
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

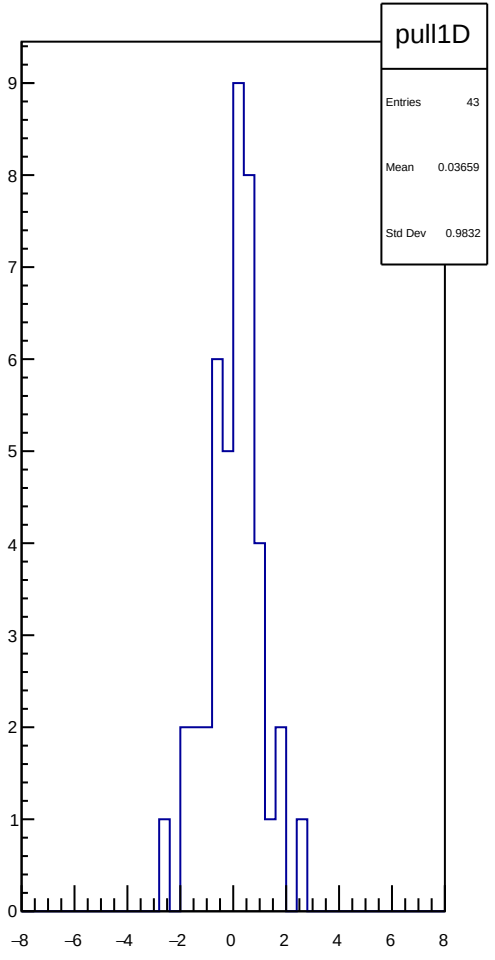

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 7028 / 42
p0 2194 ± 2.357
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

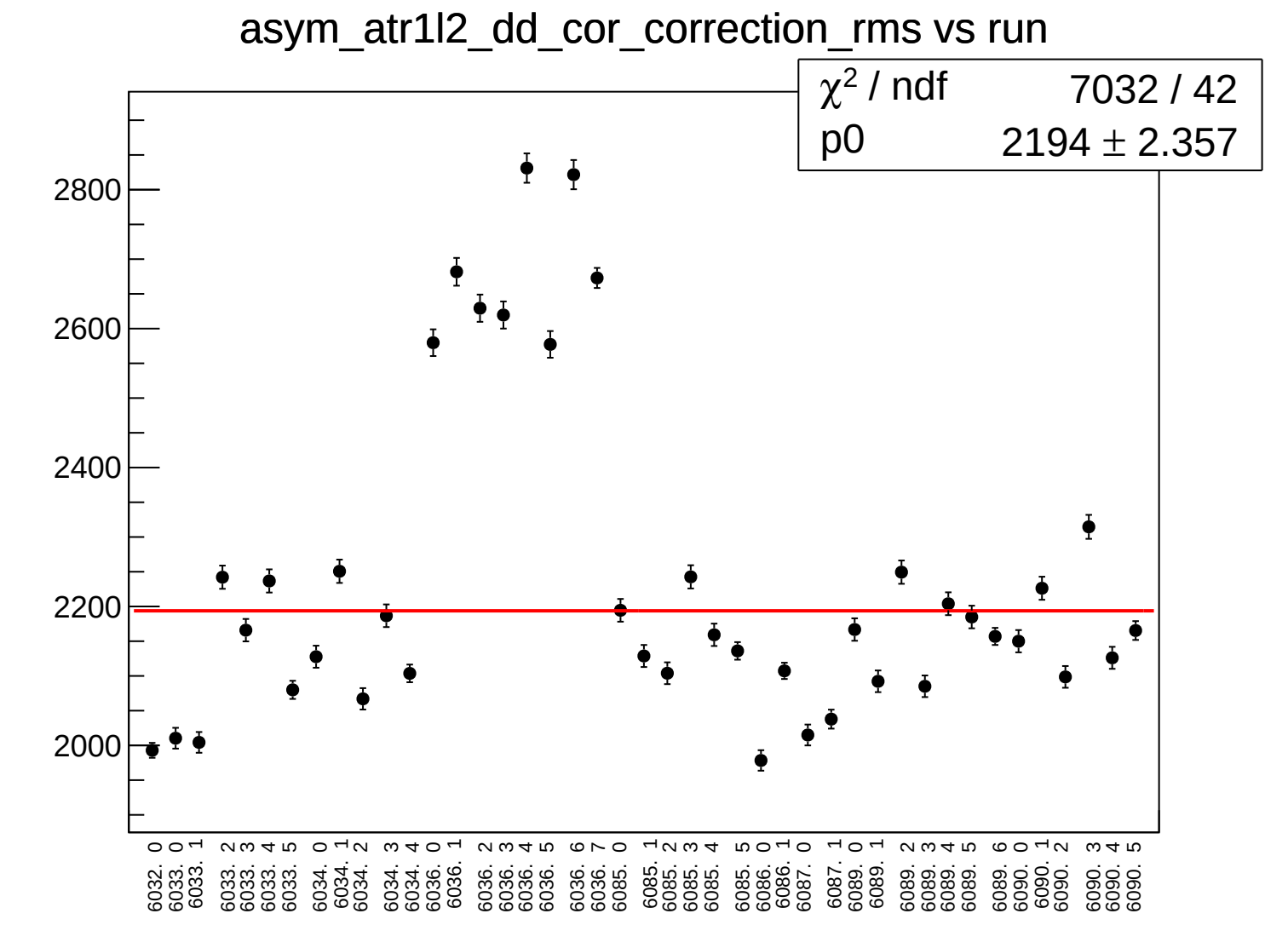

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 25.48 / 42
p0 −2510 ± 2564
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 175.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

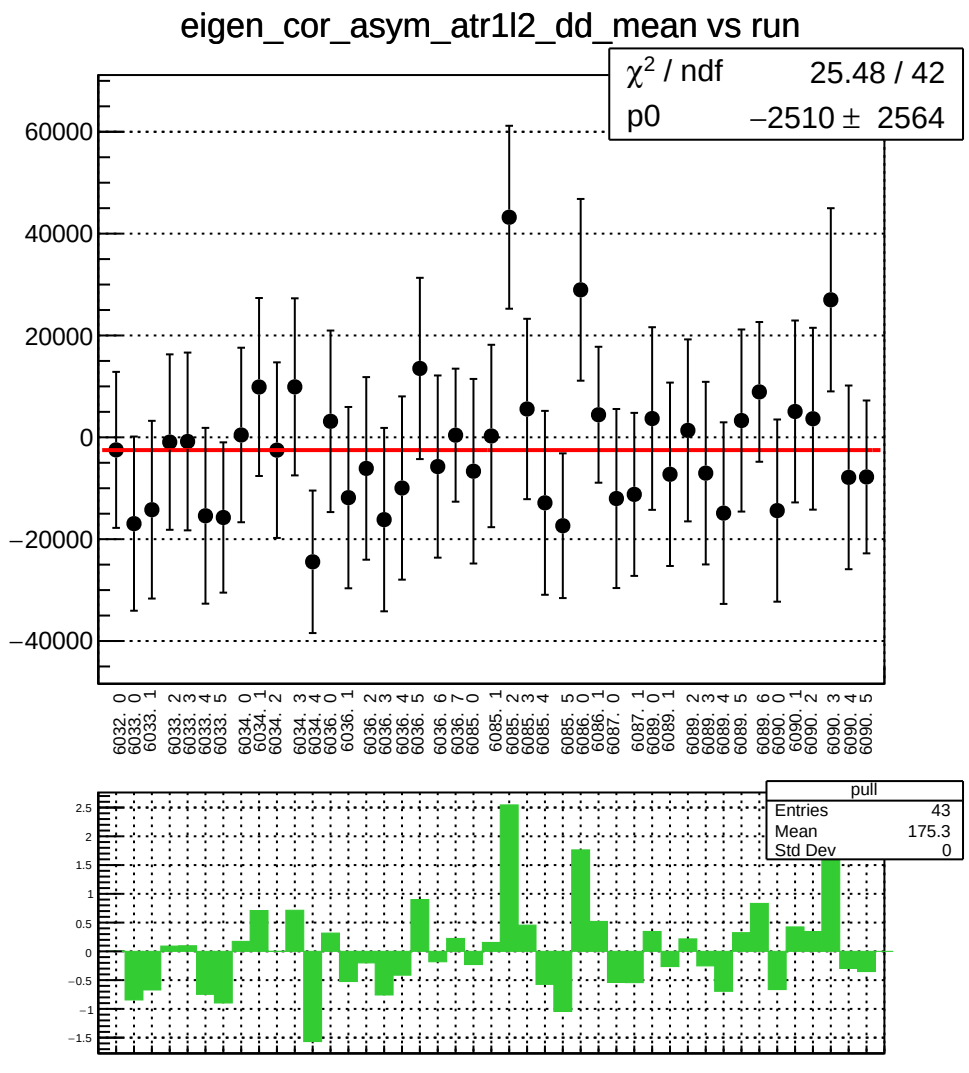

pull1D
Entries 43
Mean 0.01267
Std Dev 0.7697
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

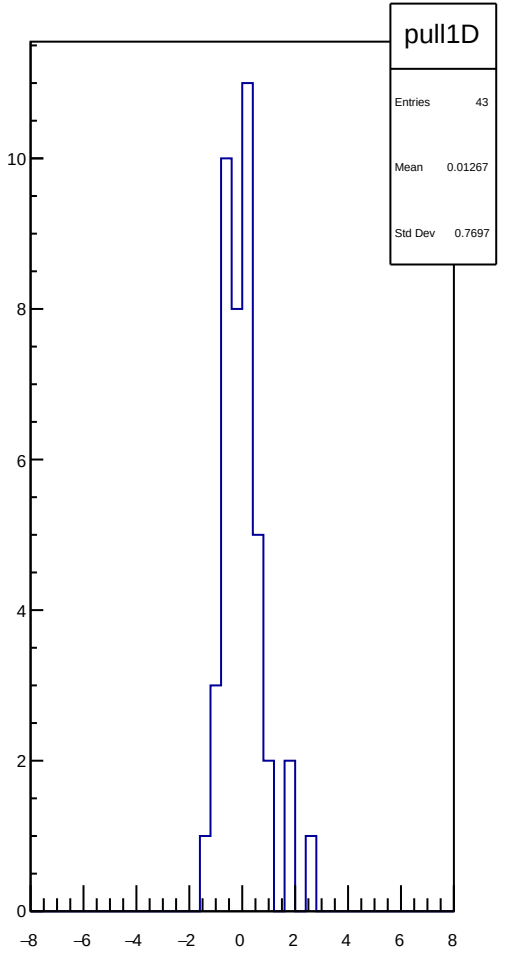

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1111 / 42
p0 1693 ± 1.813
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

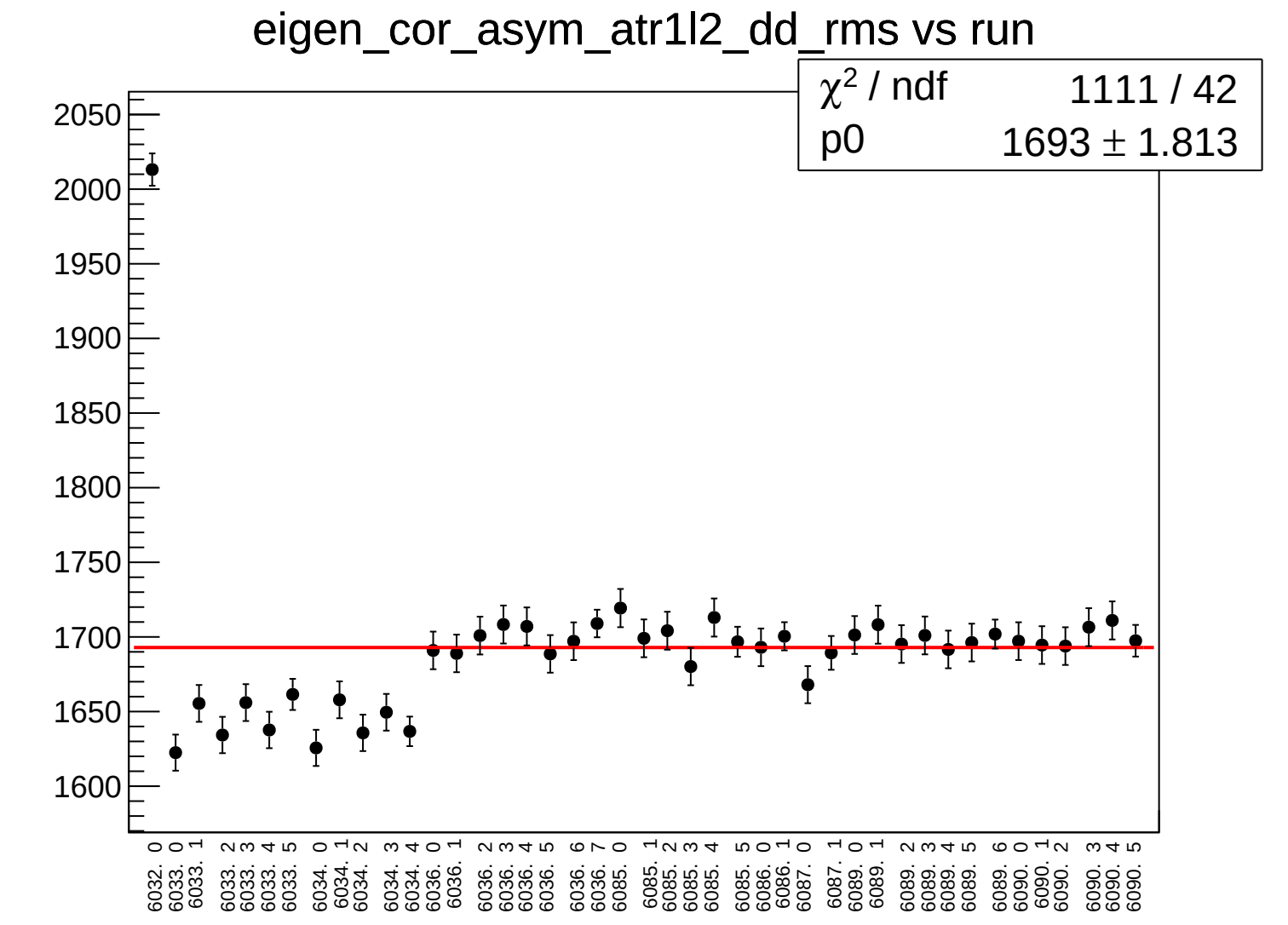

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.62 / 42
p0 61.79 ± 3334
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −38.22
Std Dev 0
2
1
0
−1
−2

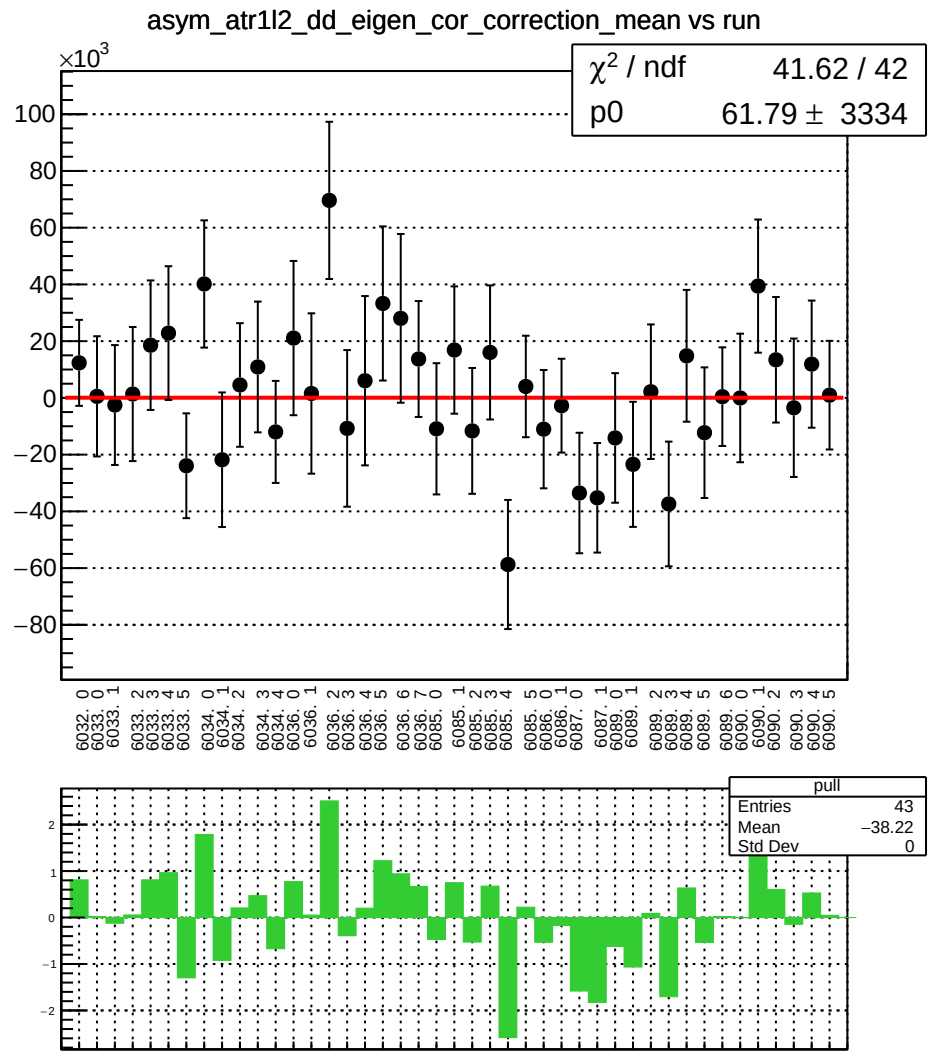

pull1D
Entries 43
Mean 0.03659
Std Dev 0.9832
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

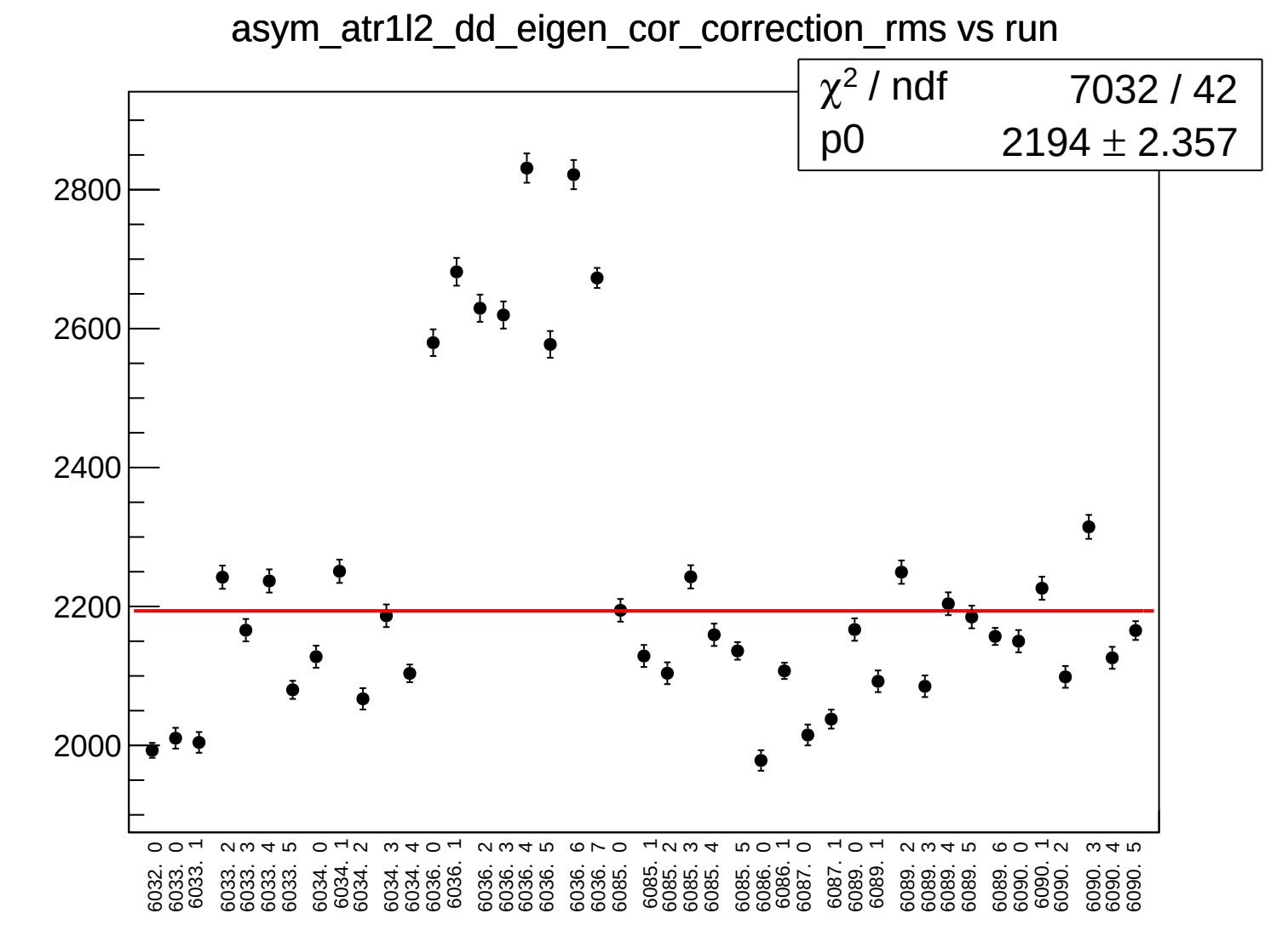

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 7032 / 42
p0 2194 ± 2.357
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

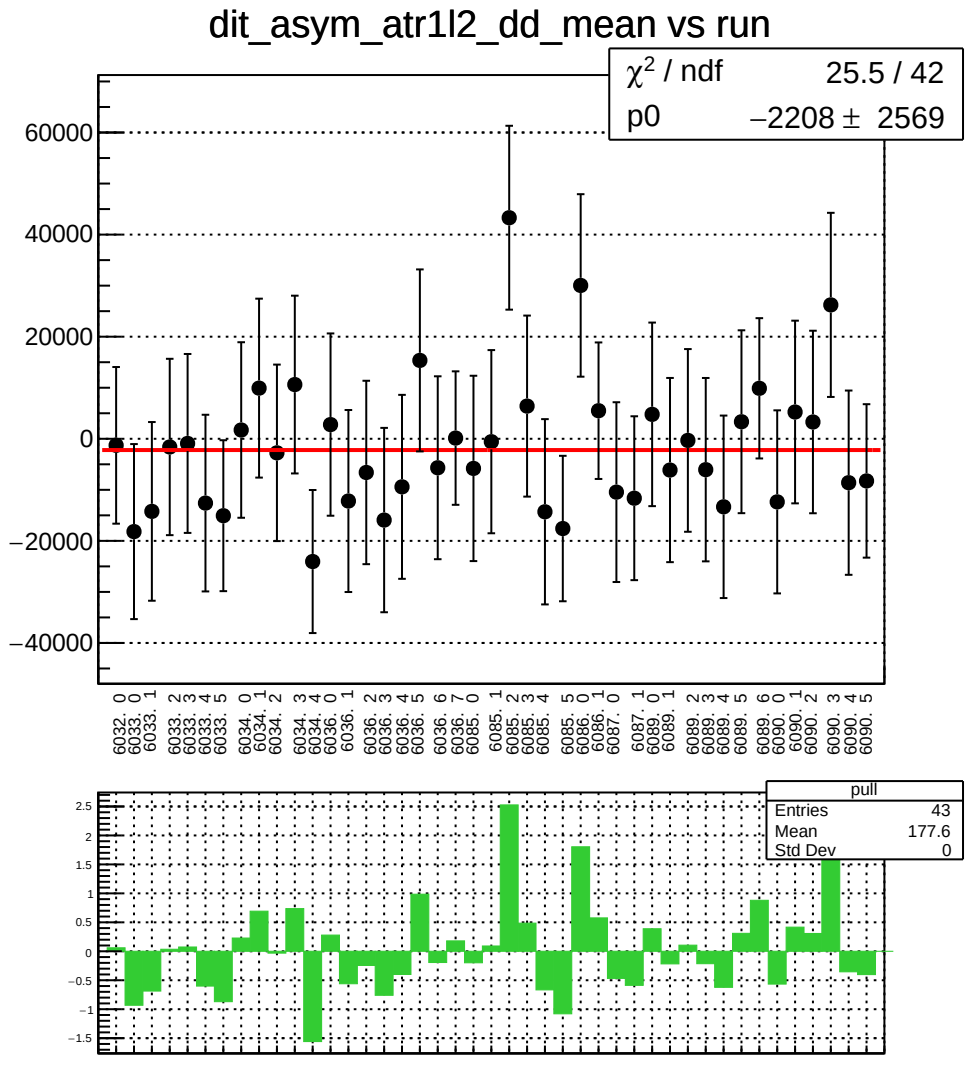

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 25.48 / 42
p0 −2510 ± 2564
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 175.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

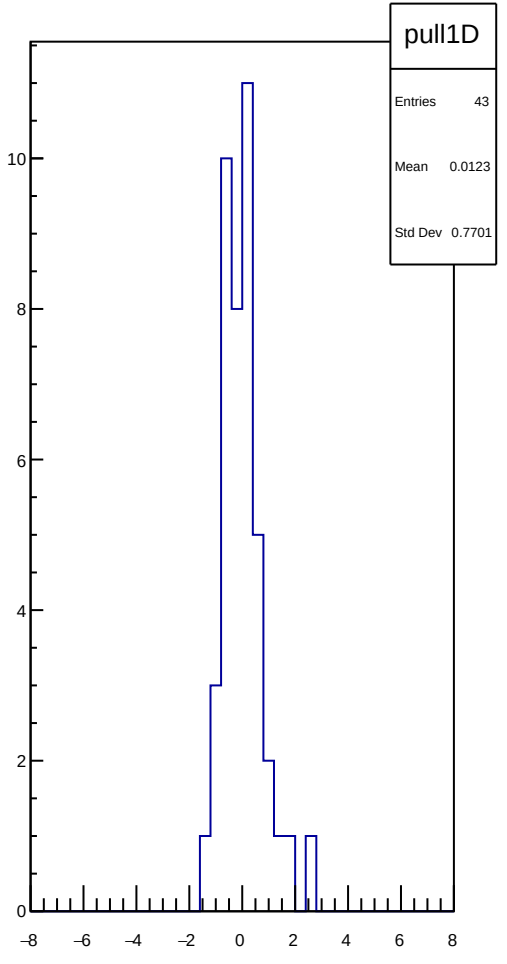

pull1D
Entries 43
Mean 0.01267
Std Dev 0.7697
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

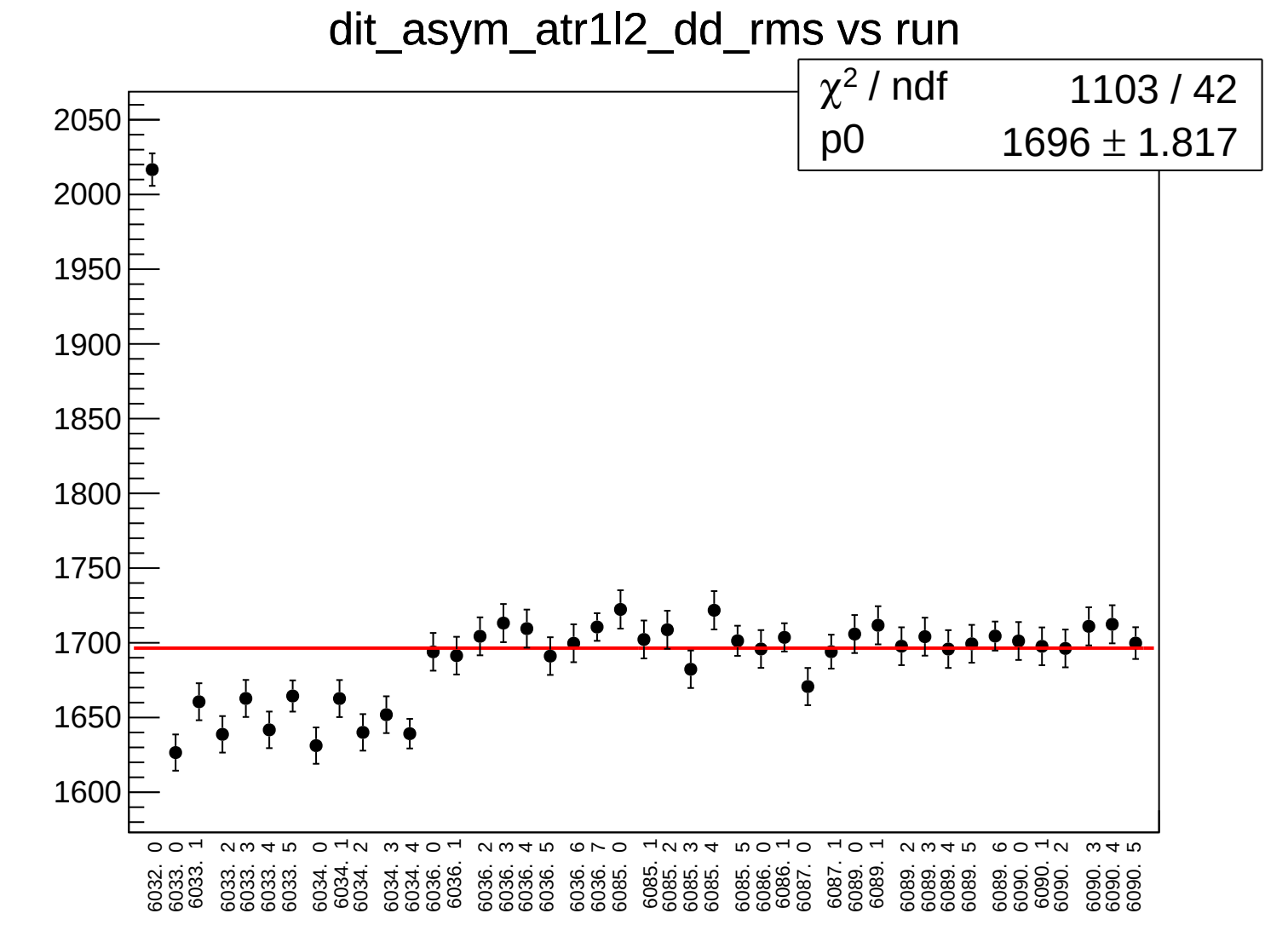

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1111 / 42
p0 1693 ± 1.813
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

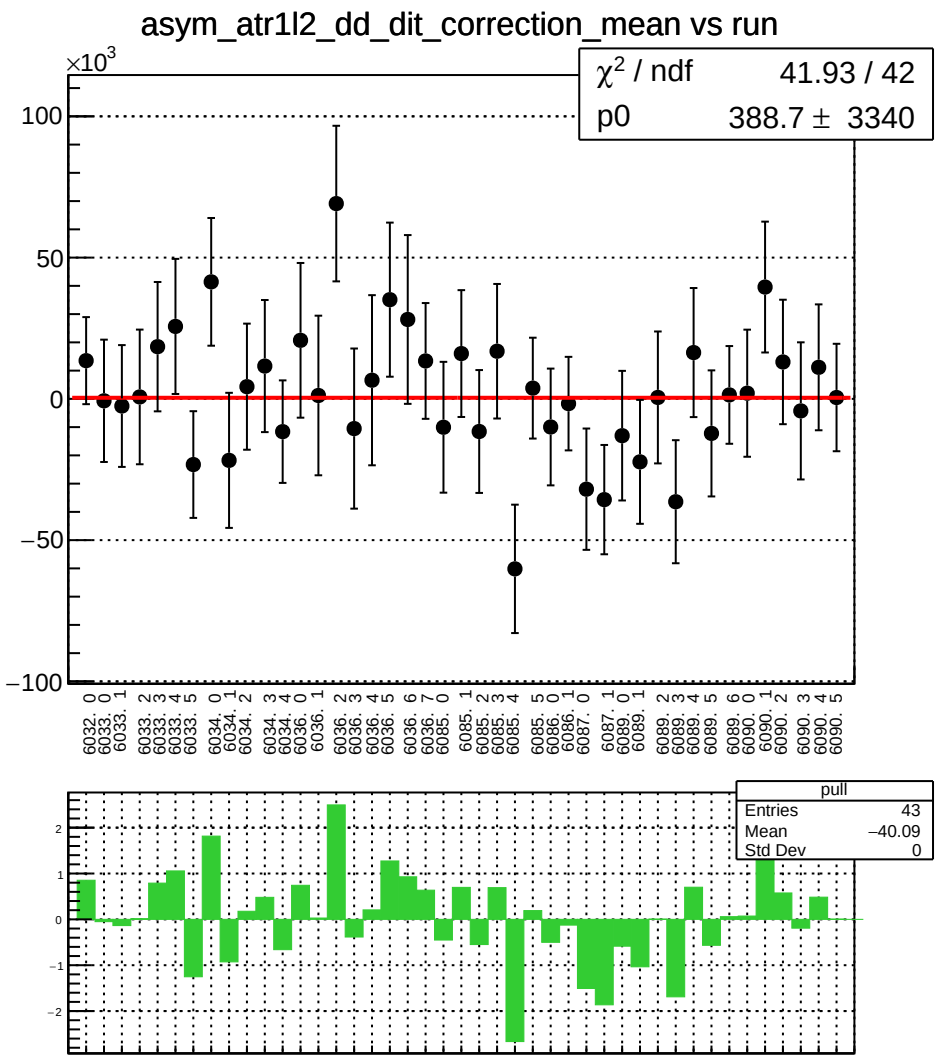

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.62 / 42
p0 61.79 ± 3334
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −38.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03659
Std Dev 0.9832
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

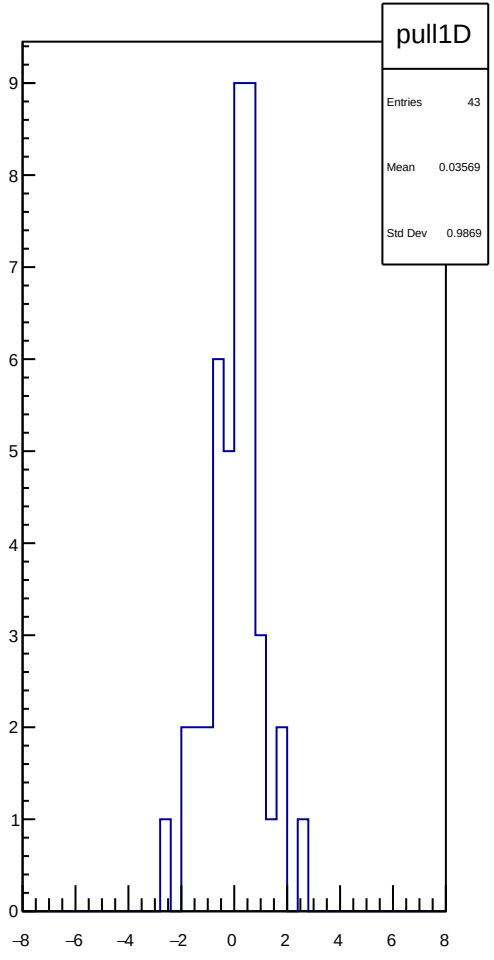

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7032 / 42
p0 2194 ± 2.357
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

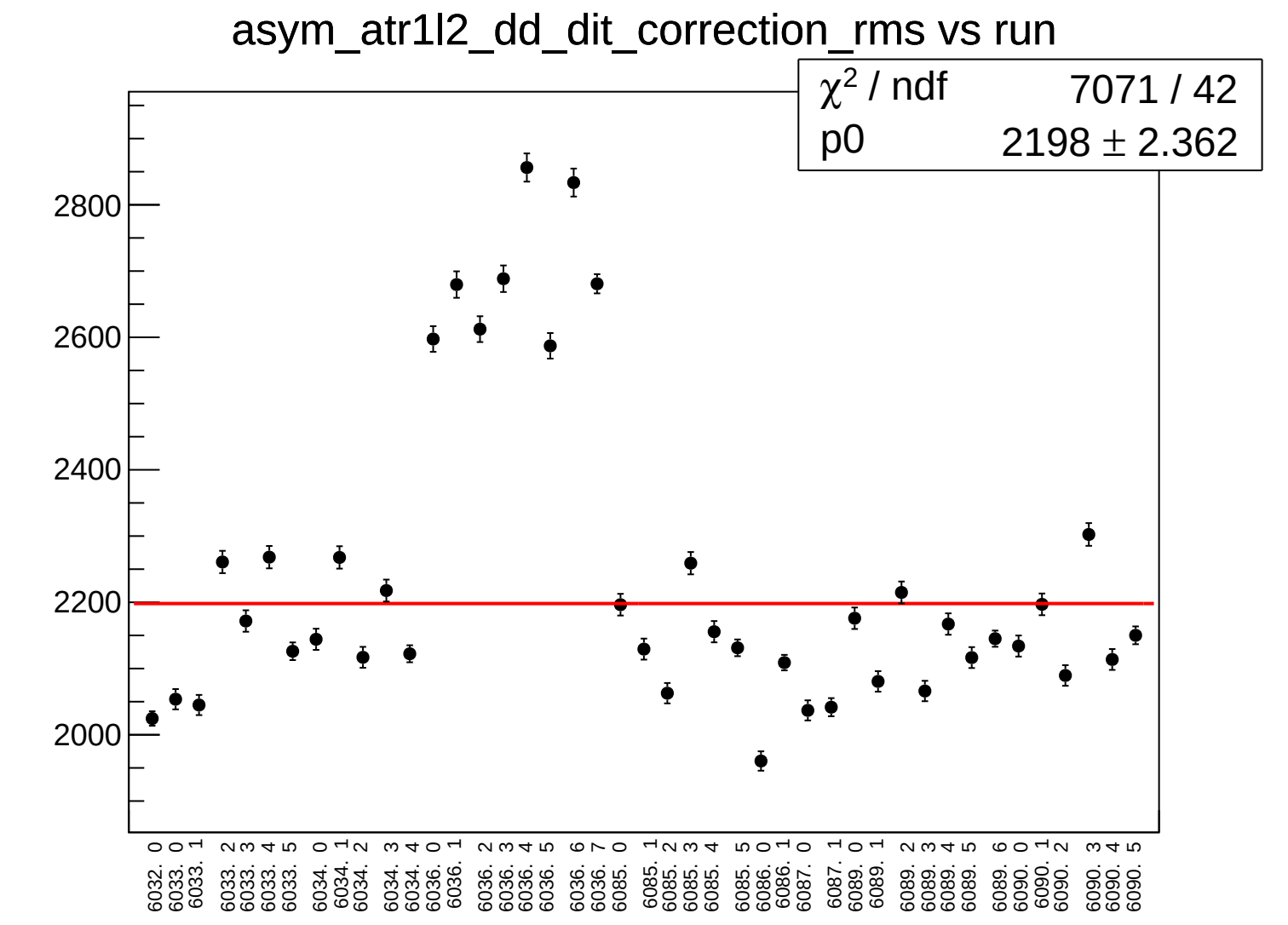

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 25.5 / 42
p0 −2208 ± 2569
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 177.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

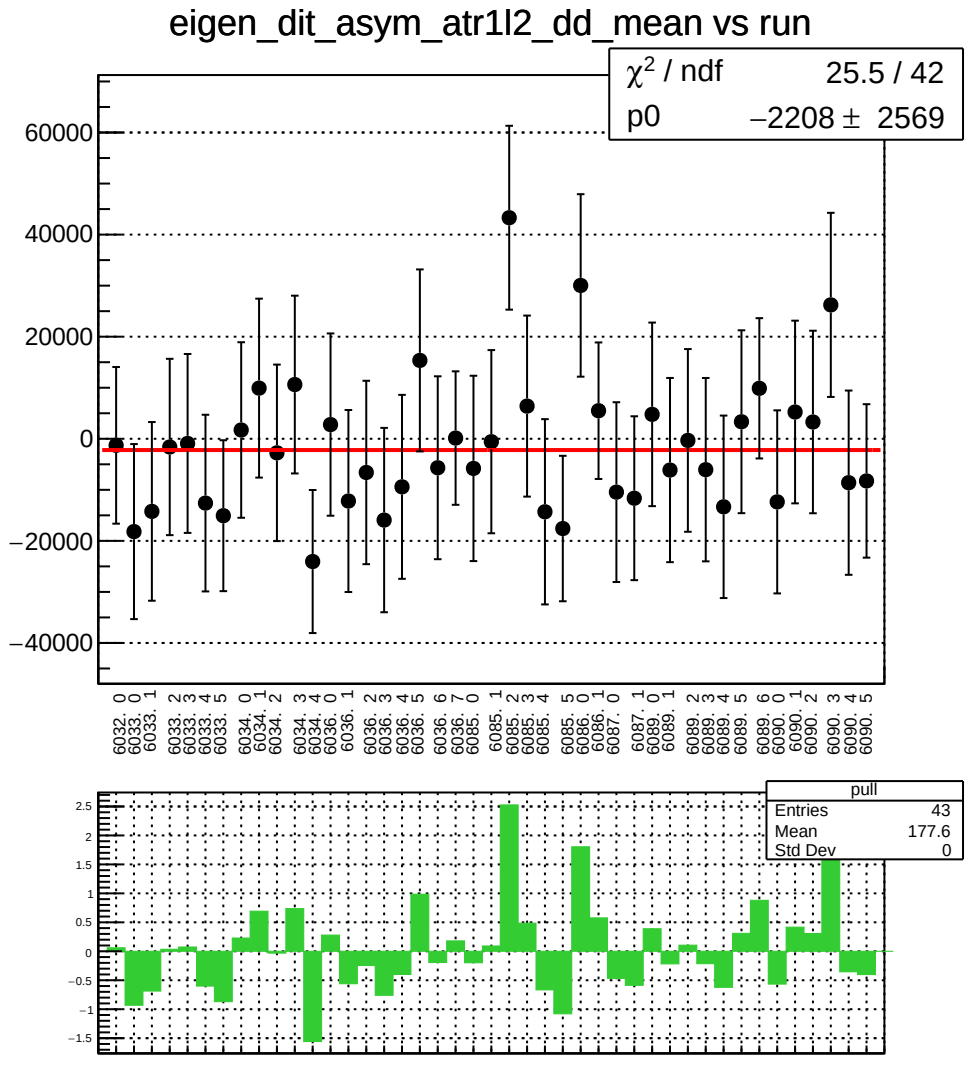

pull1D
Entries 43
Mean 0.0123
Std Dev 0.7701
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

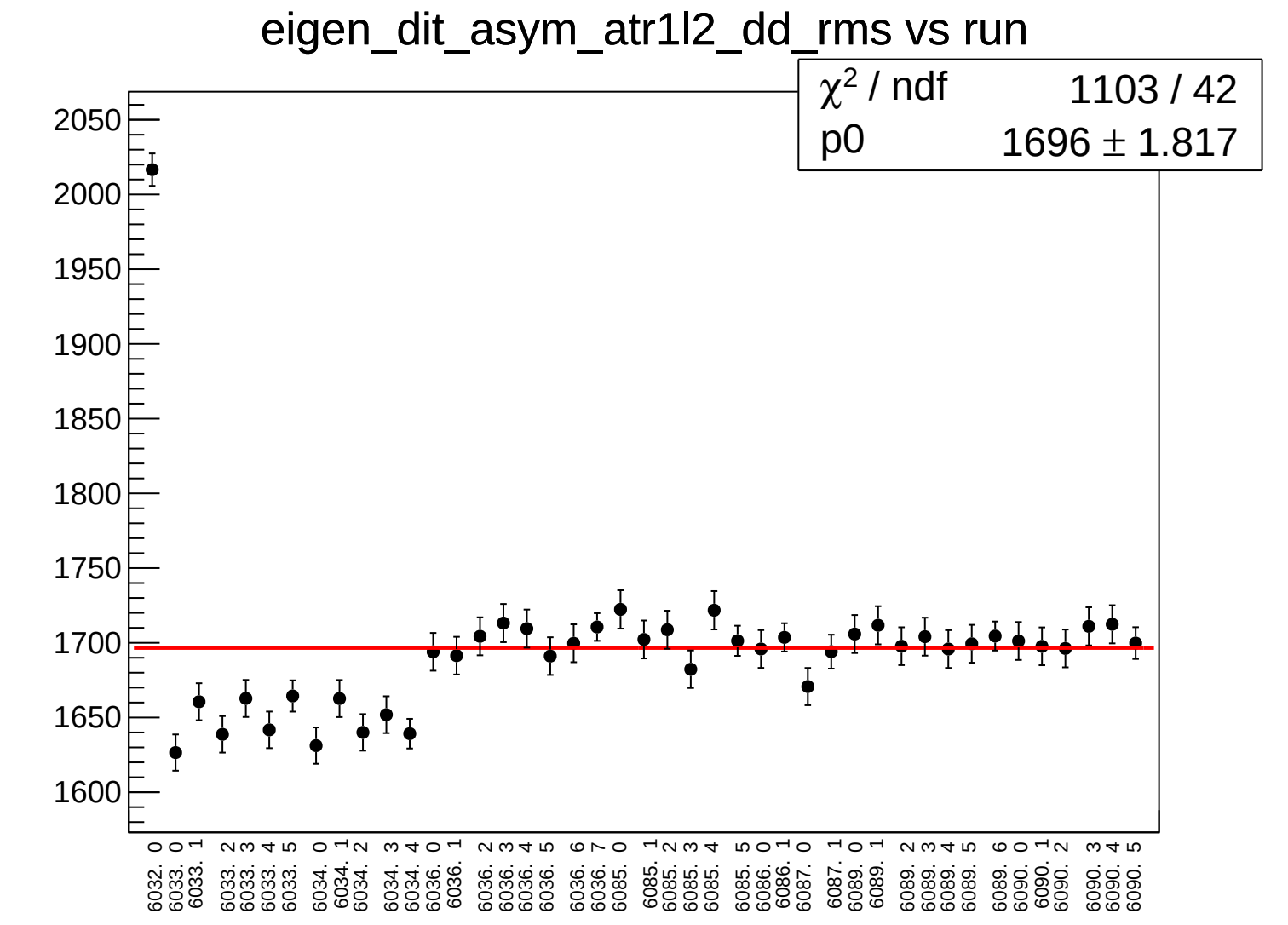

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1103 / 42
p0 1696 ± 1.817
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

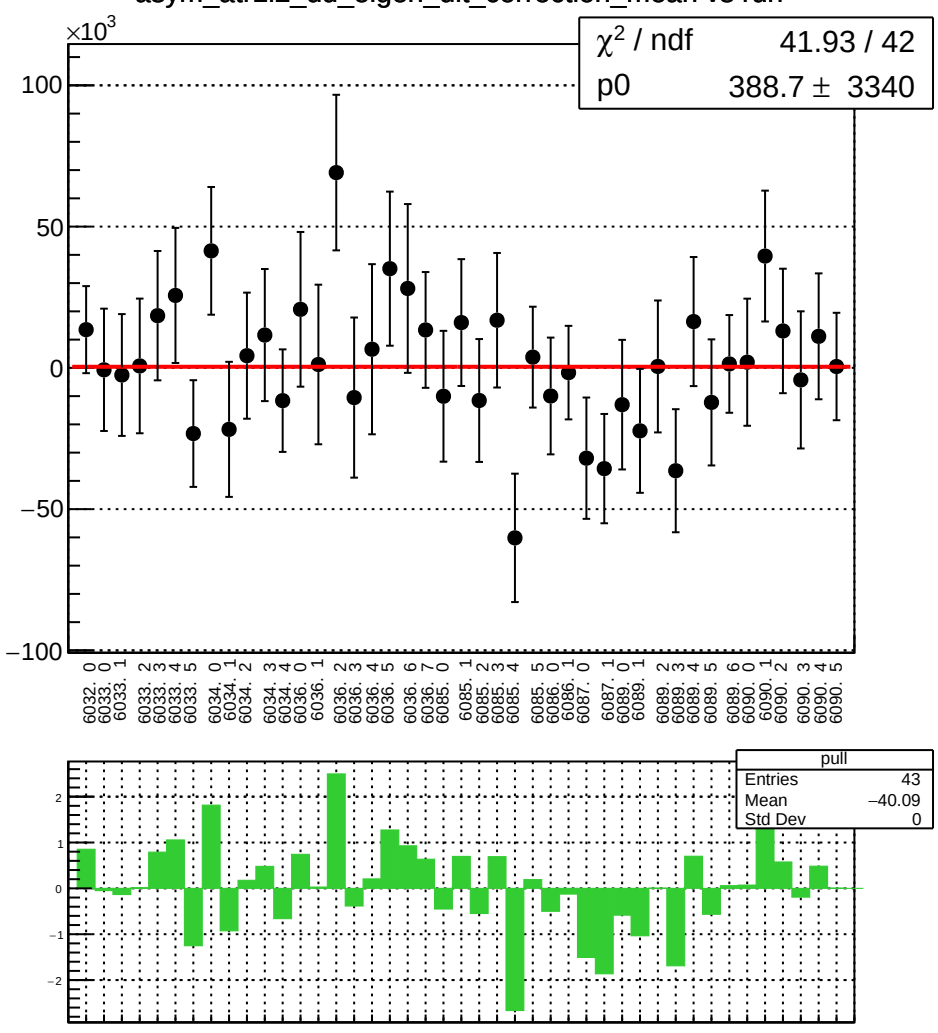

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.93 / 42
p0 388.7 ± 3340
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.09
Std Dev 0
2
1
0
−1
−2

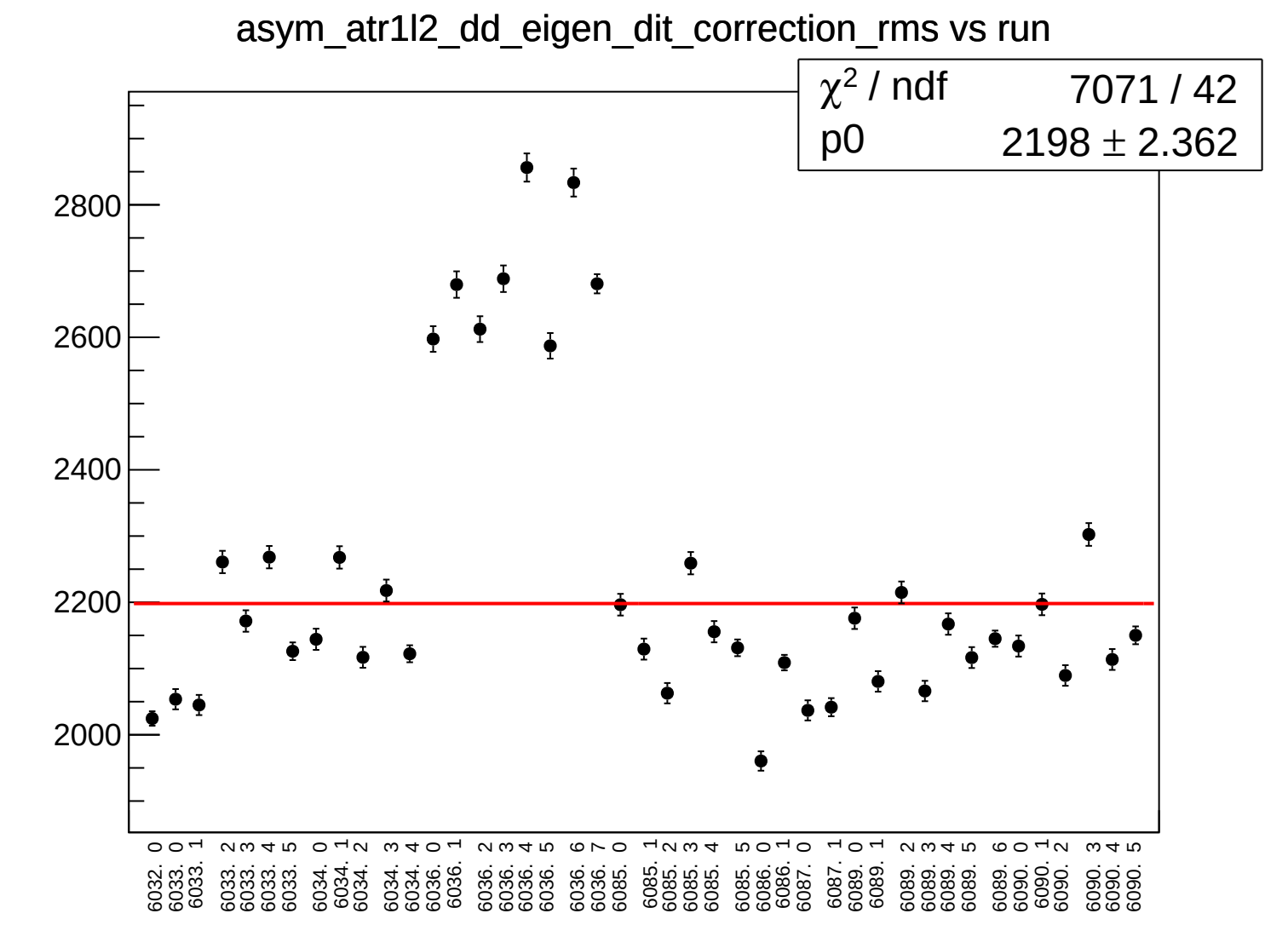

pull1D
Entries 43
Mean 0.03569
Std Dev 0.9869
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

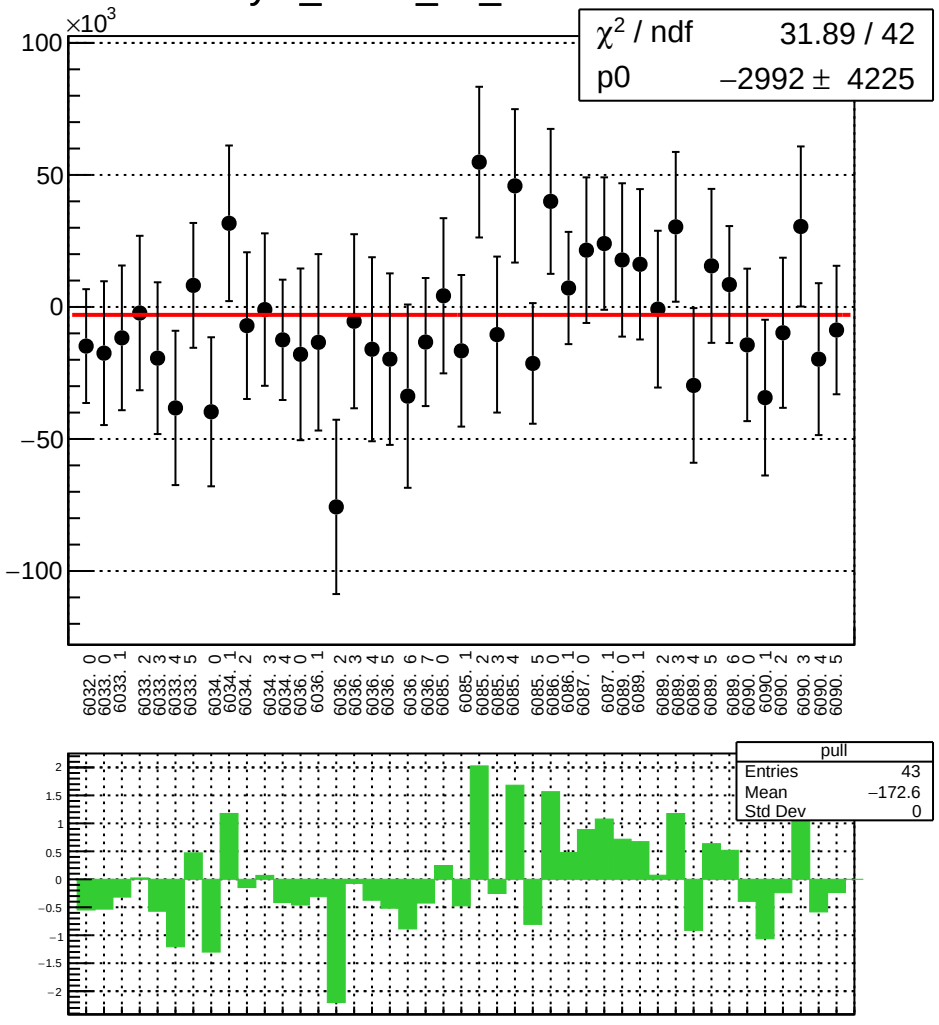

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 7071 / 42
p0 2198 ± 2.362
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

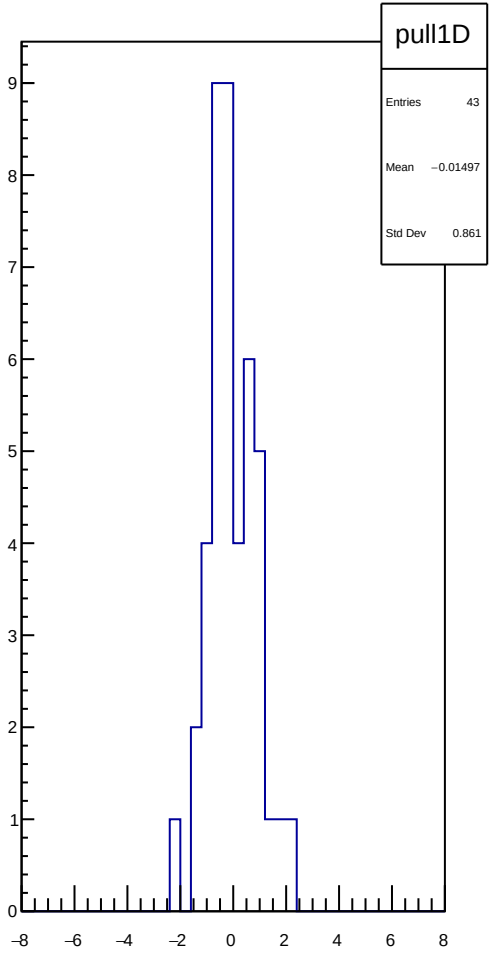

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 25.5 / 42
p0 −2208 ± 2569
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 177.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0123
Std Dev 0.7701
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

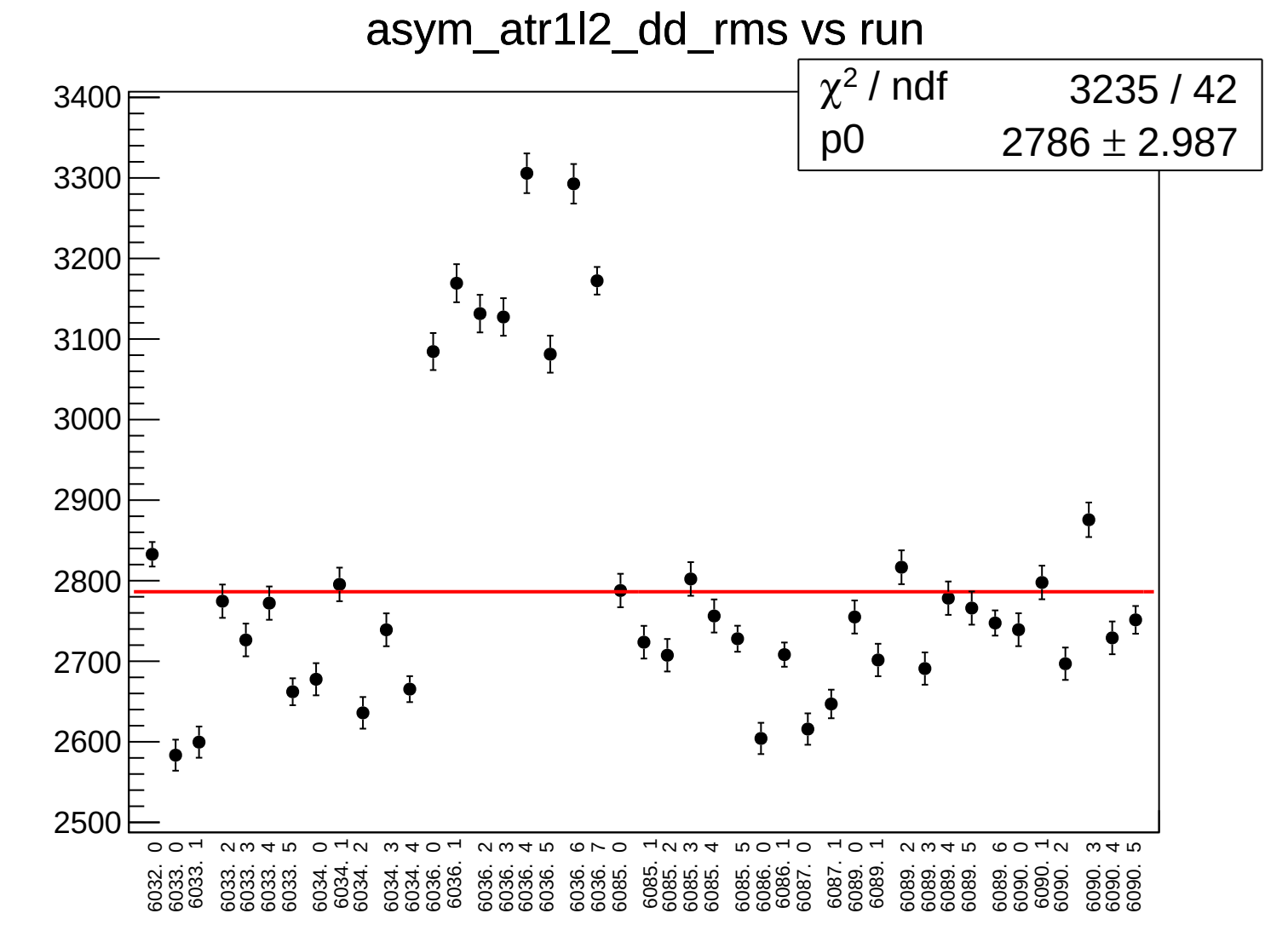

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1103 / 42
p0 1696 ± 1.817
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

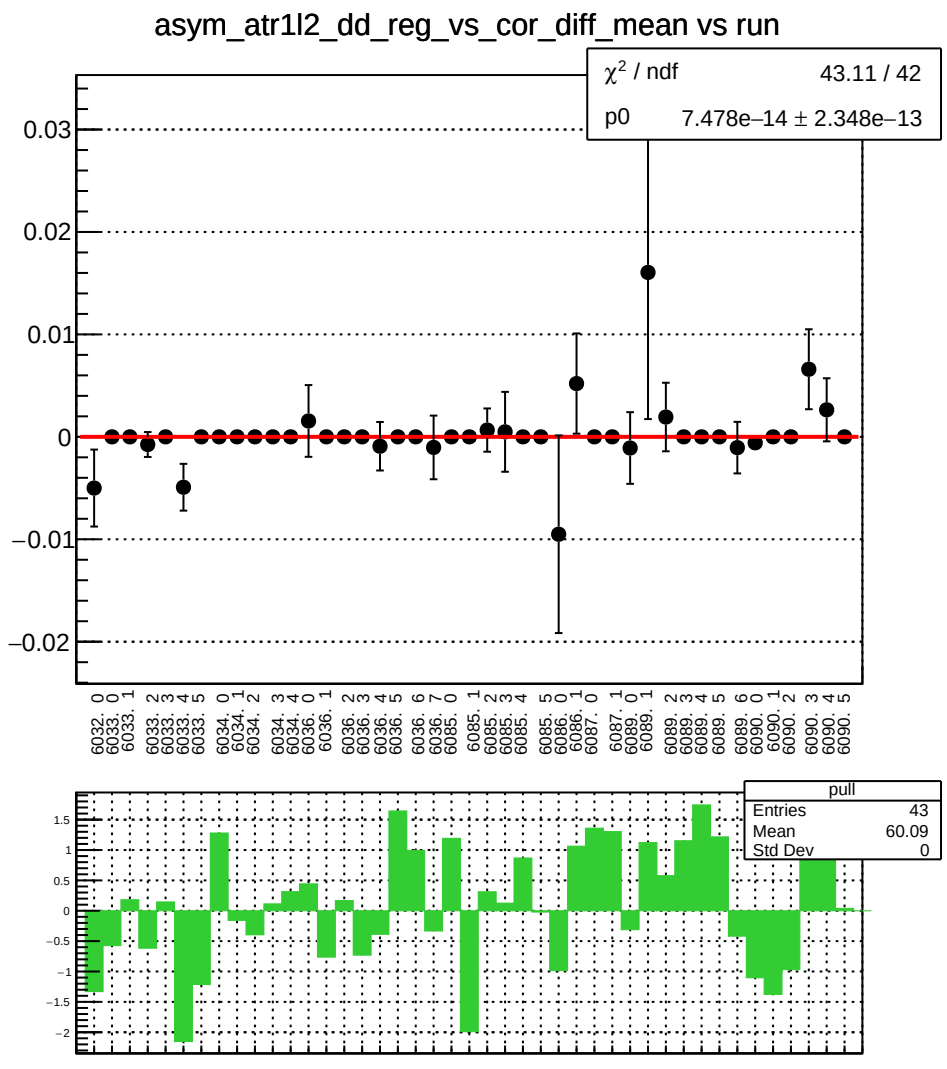

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.93 / 42
p0 388.7 ± 3340
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.09
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03569
Std Dev 0.9869
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

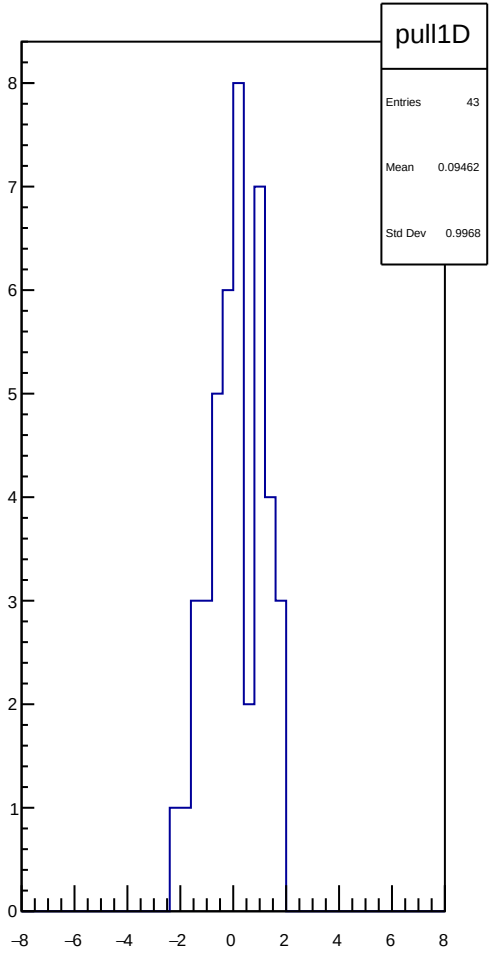

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7071 / 42
p0 2198 ± 2.362
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

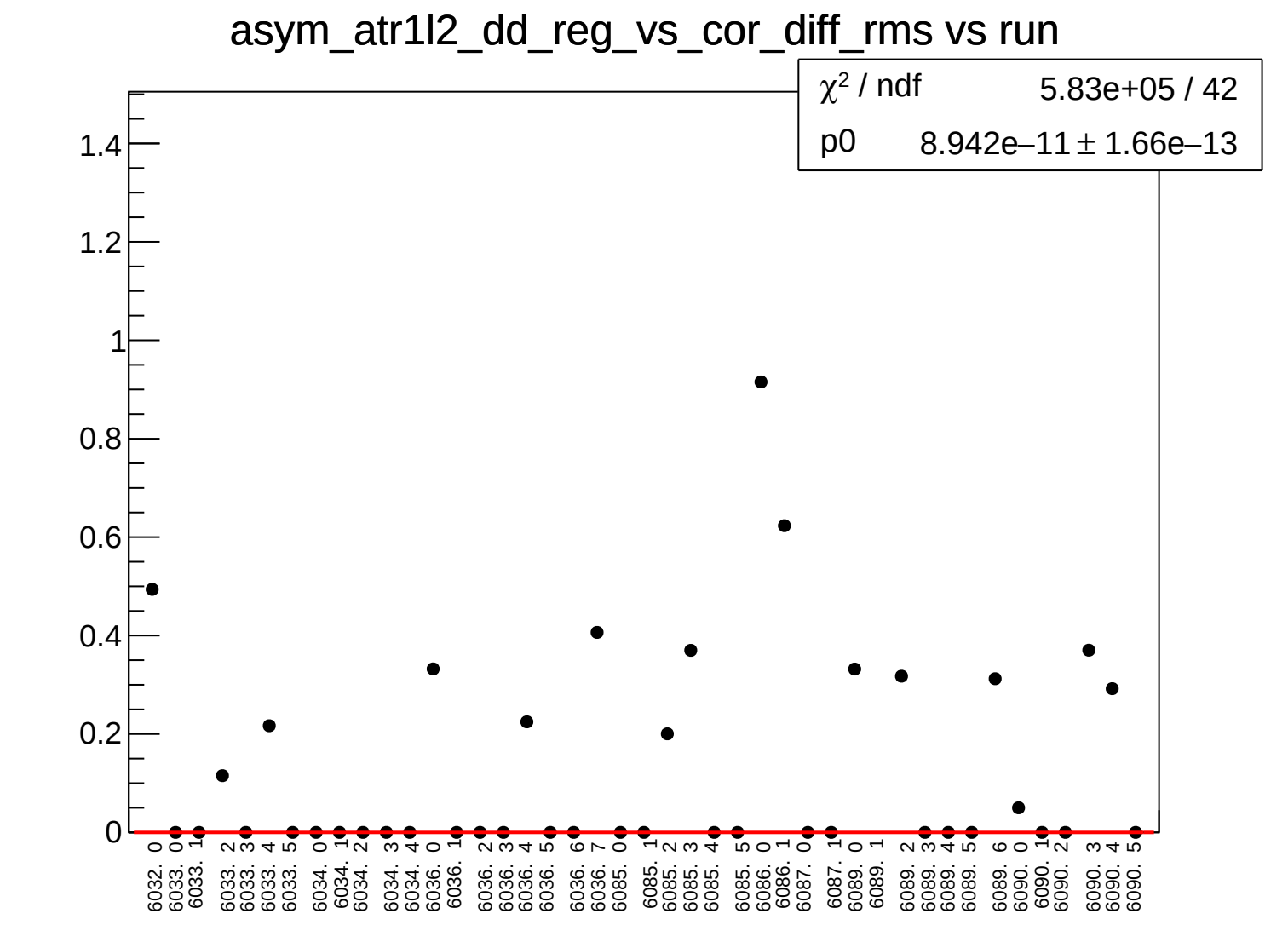

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 31.89 / 42
p0 −2992 ± 4225
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −172.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

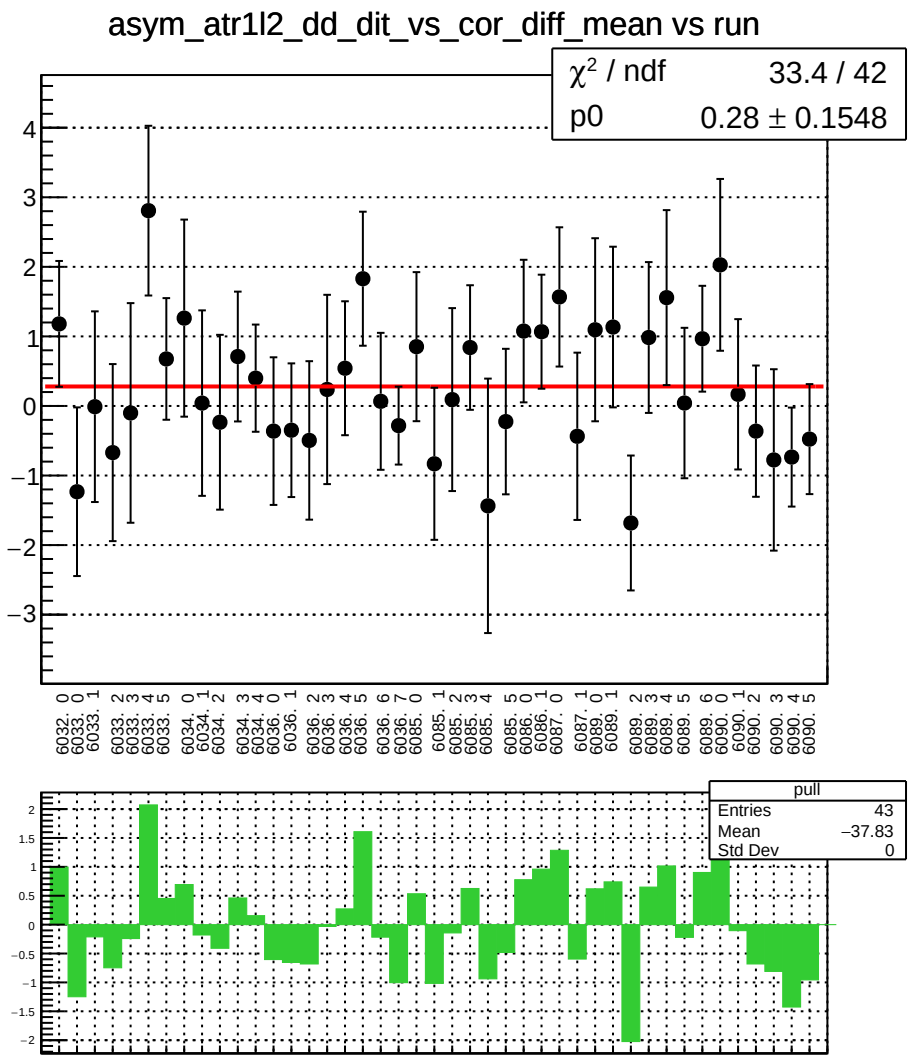

pull1D
Entries 43
Mean −0.01497
Std Dev 0.861
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

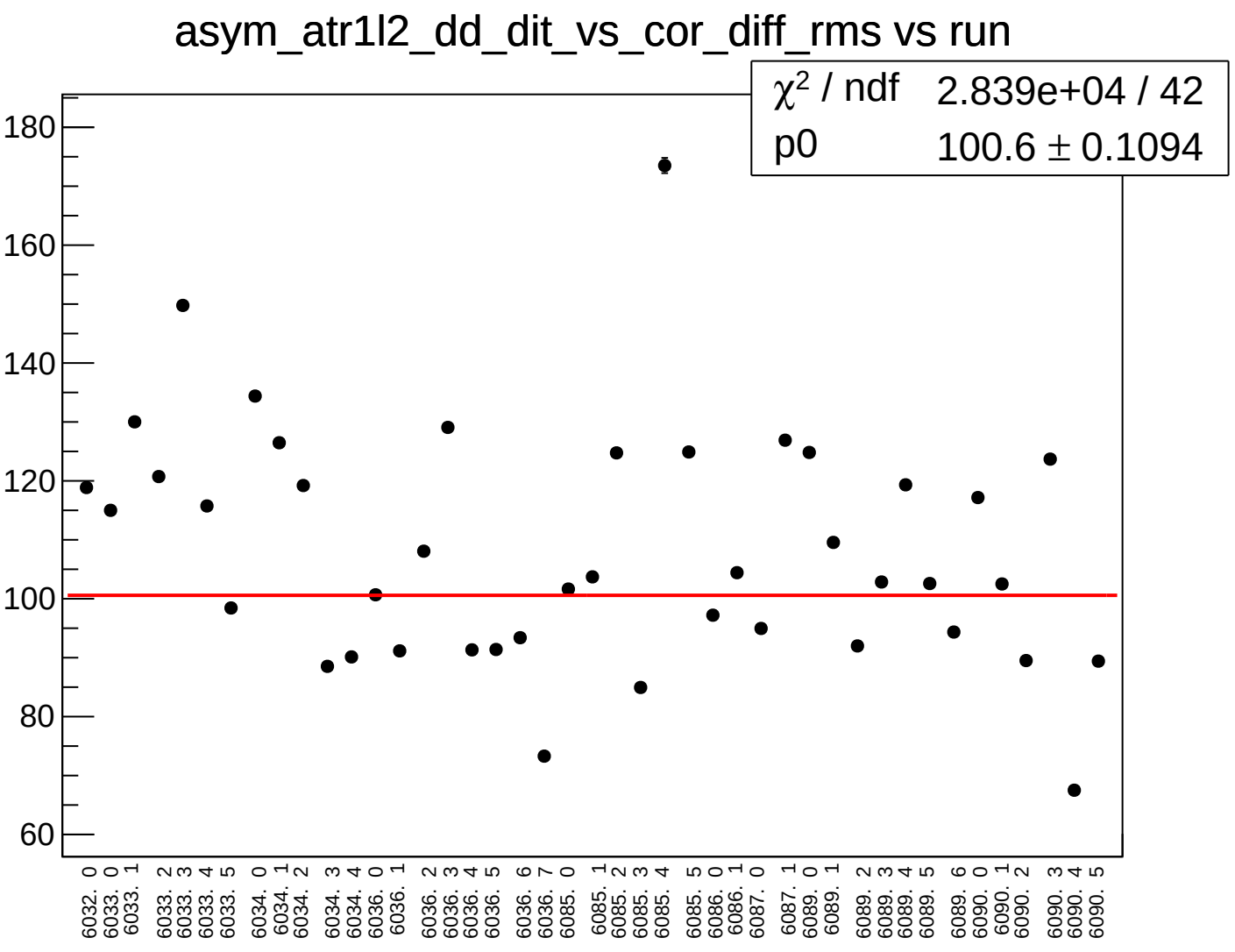

asym_atr1l2_dd_rms vs run
χ² / ndf 3235 / 42
p0 2786 ± 2.987
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 43.11 / 42
p0 7.478e−14 ± 2.348e−13
0.03
0.02
0.01
0
−0.01
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 60.09
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

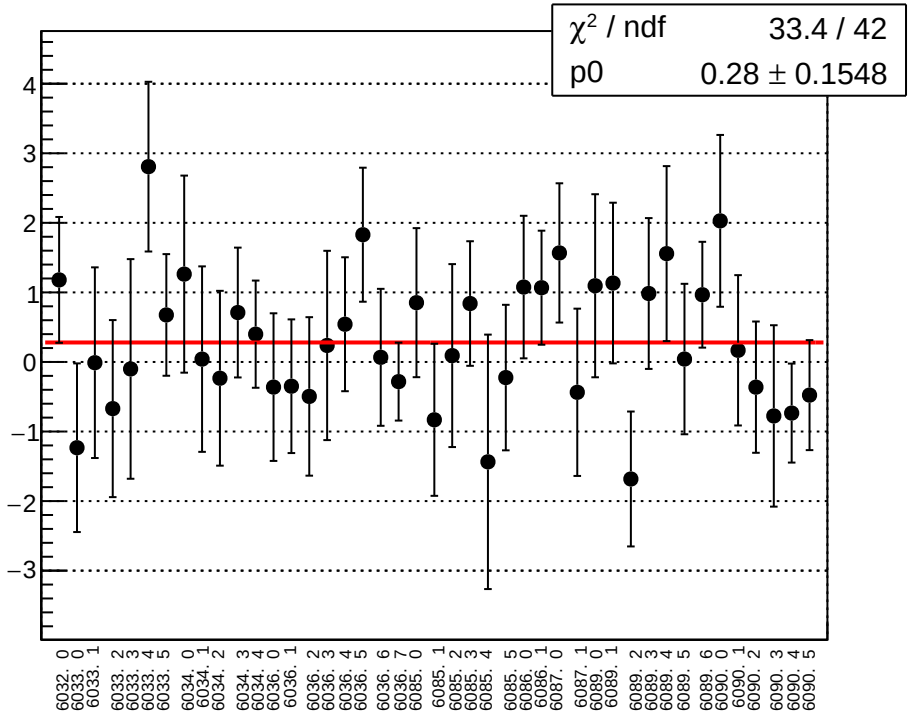

pull1D
Entries 43
Mean 0.09462
Std Dev 0.9968
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

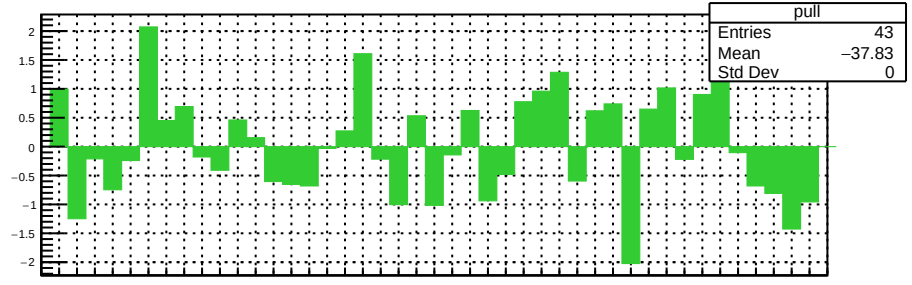

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.83e+05 / 42
p0 8.942e−11 ± 1.66e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

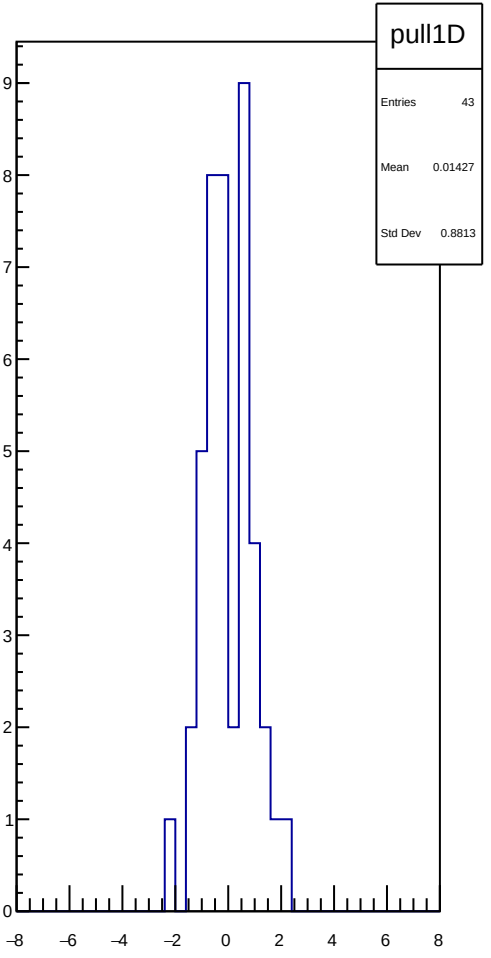

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.4 / 42
p0 0.28 ± 0.1548
pull
Entries 43
Mean −37.83
Std Dev 0
pull1D
Entries 43
Mean 0.01427
Std Dev 0.8813

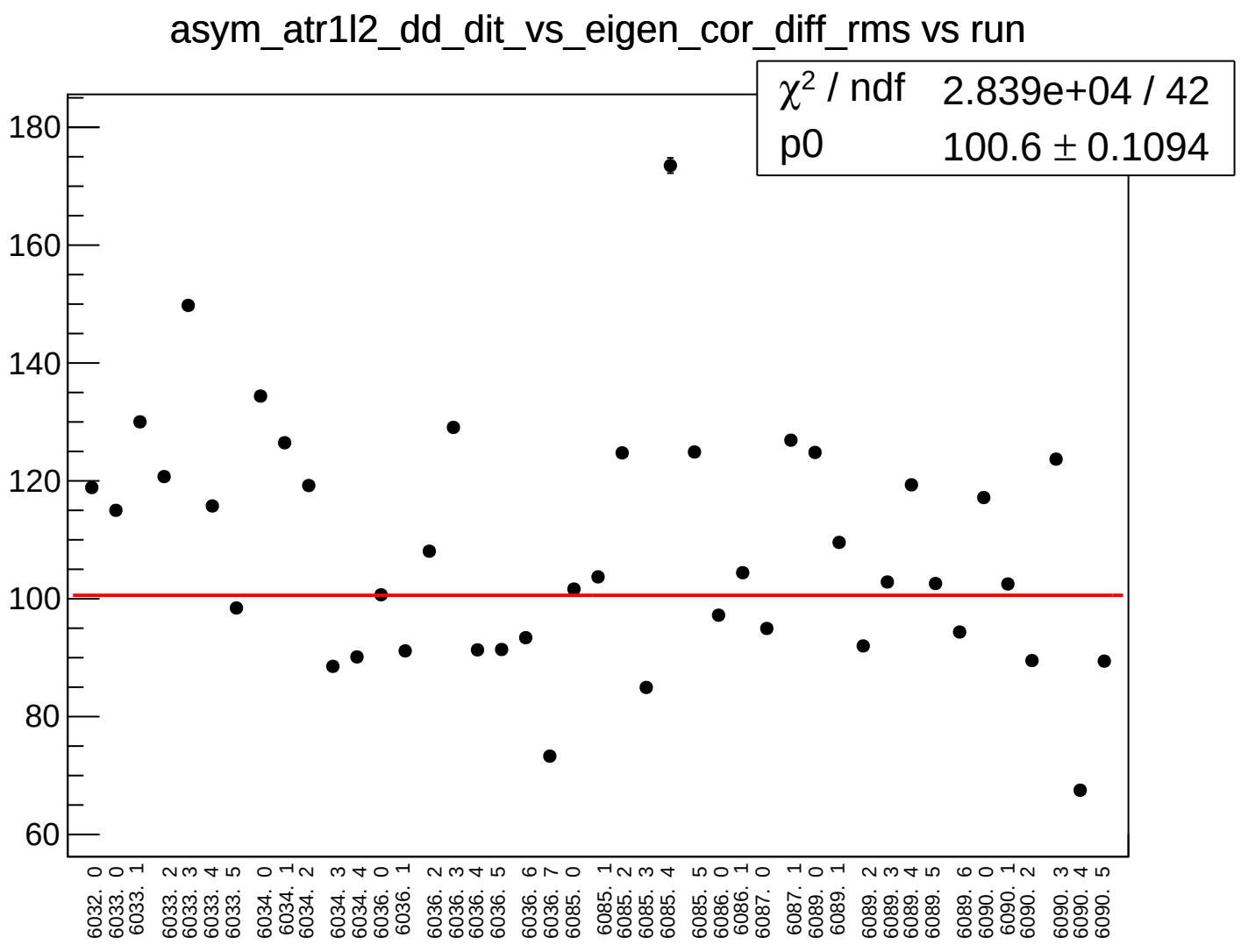

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.839e+04 / 42
p0 100.6 ± 0.1094
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

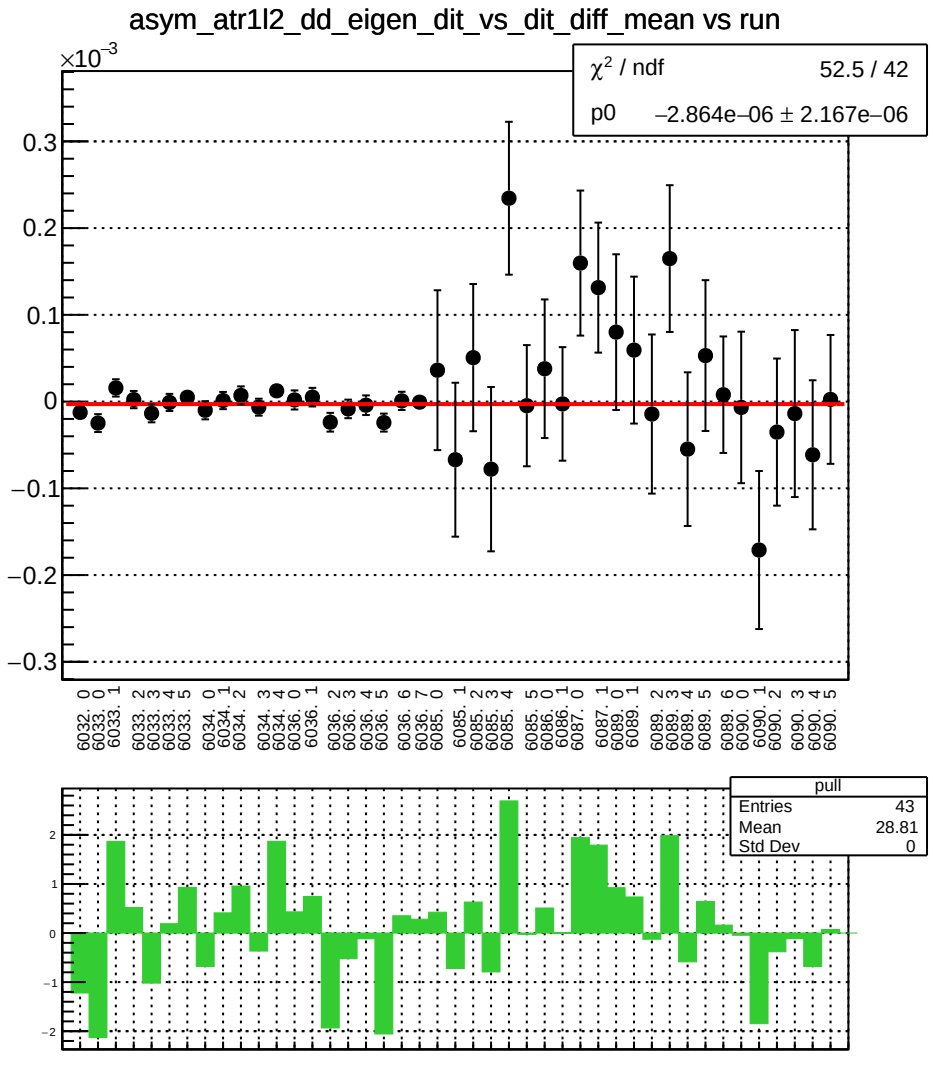
asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run

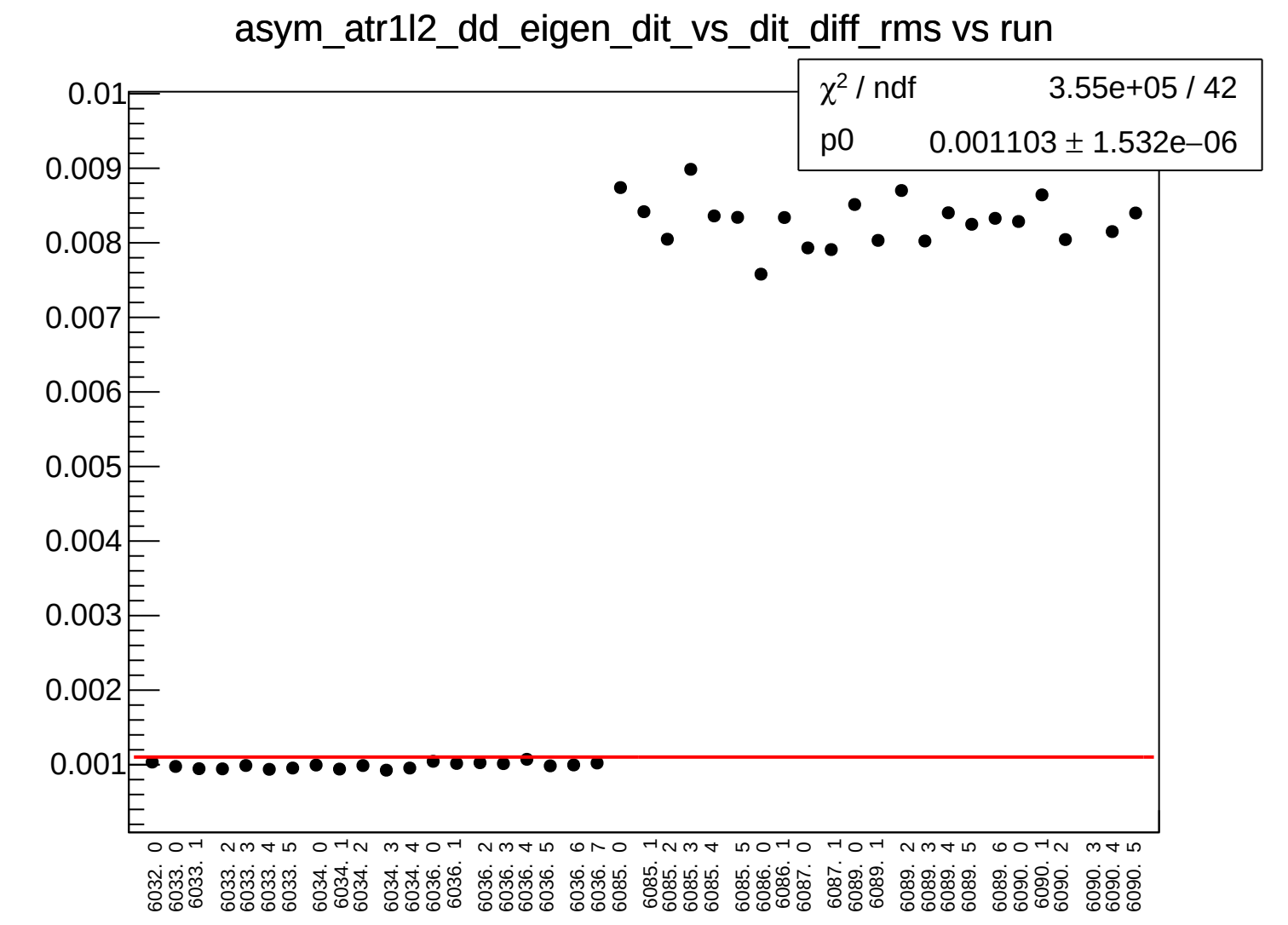




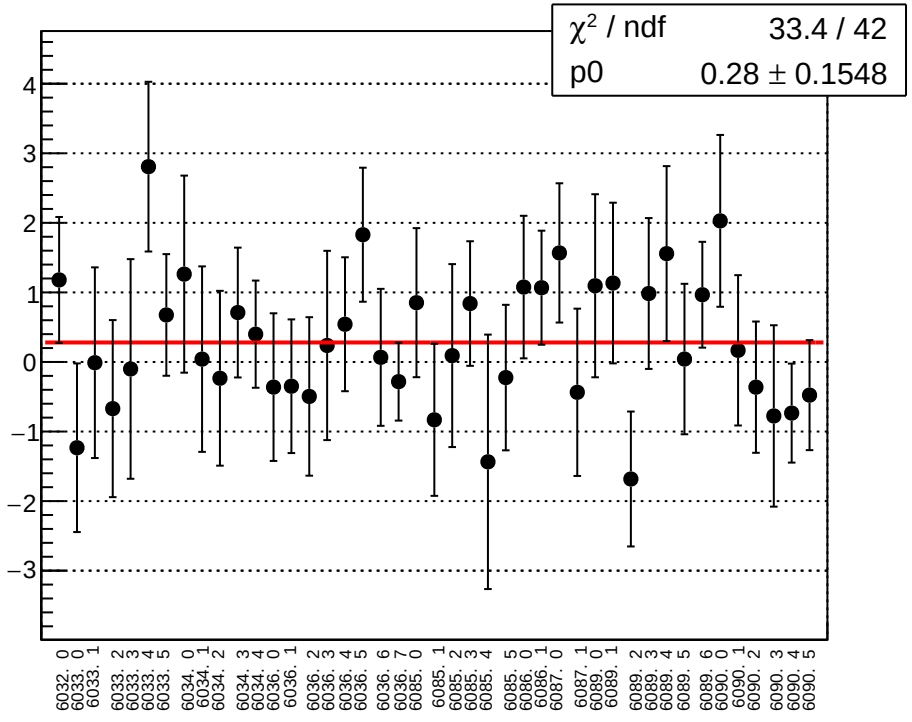


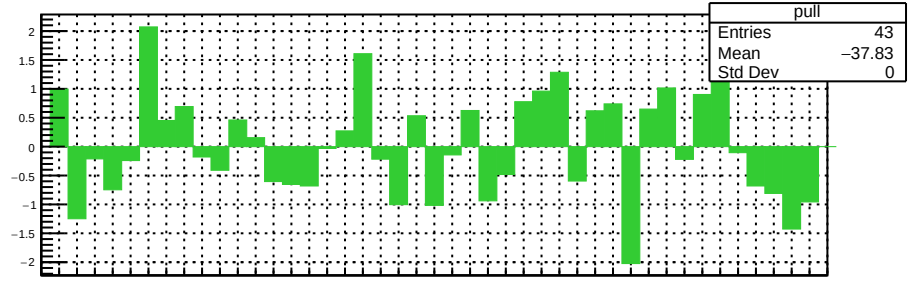

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.839e+04 / 42
p0 100.6 ± 0.1094
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

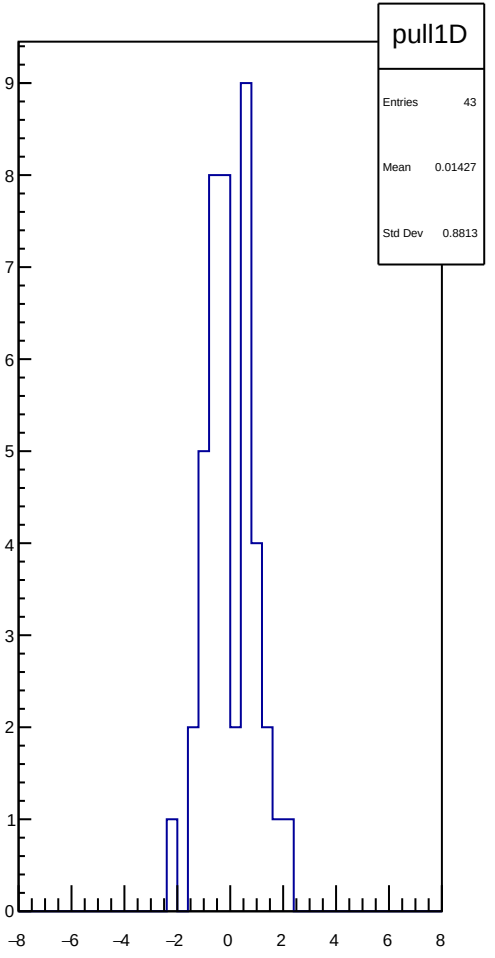

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.5 / 42
p0 −2.864e−06 ± 2.167e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 28.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1325
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

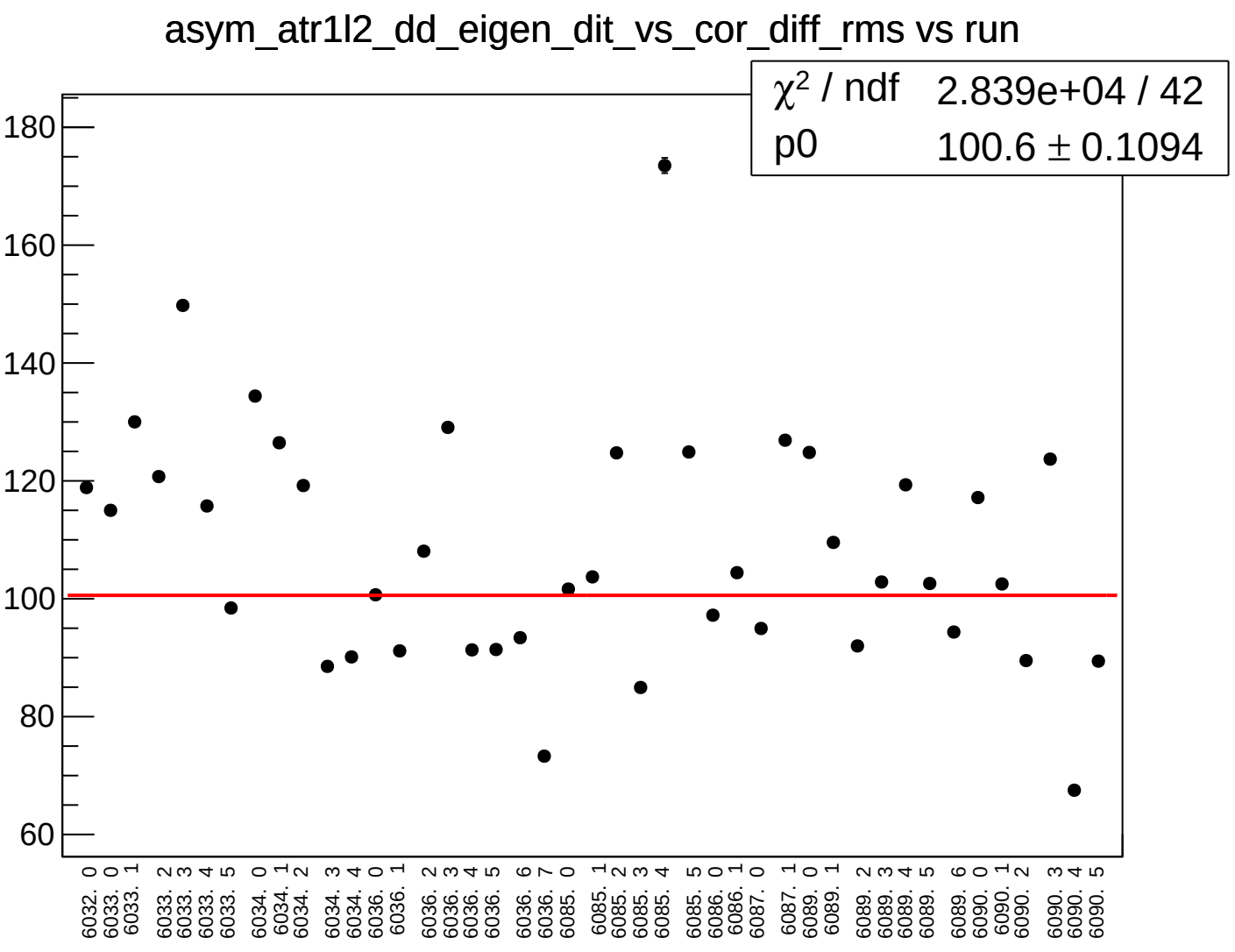

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.55e+05 / 42
p0 0.001103 ± 1.532e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run

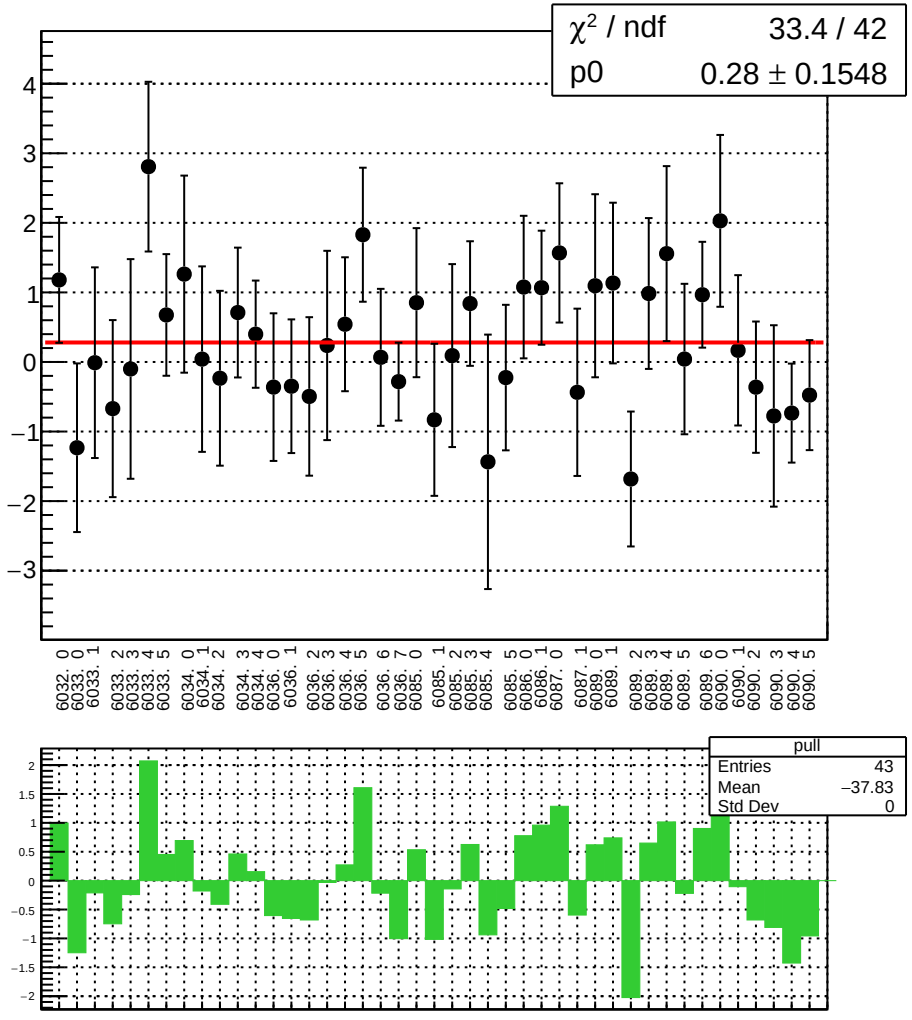


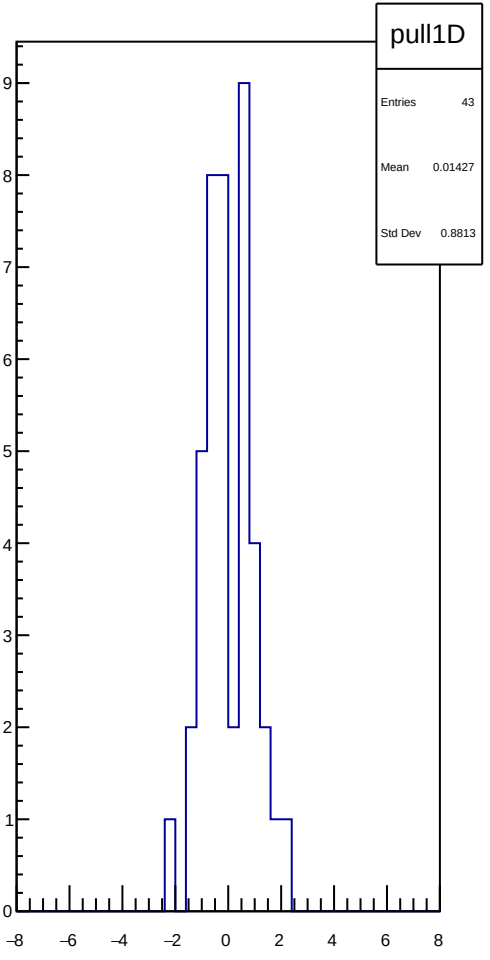


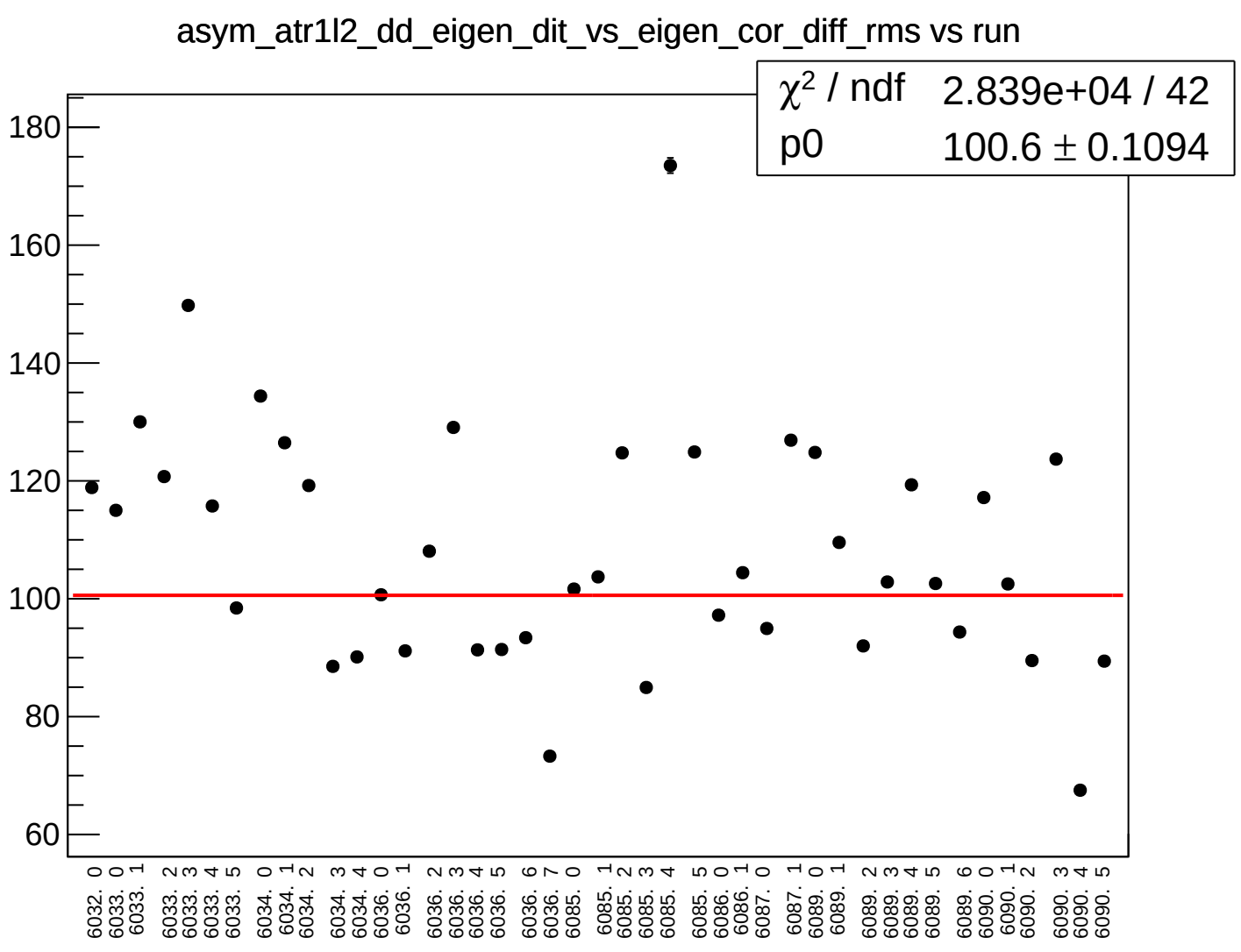


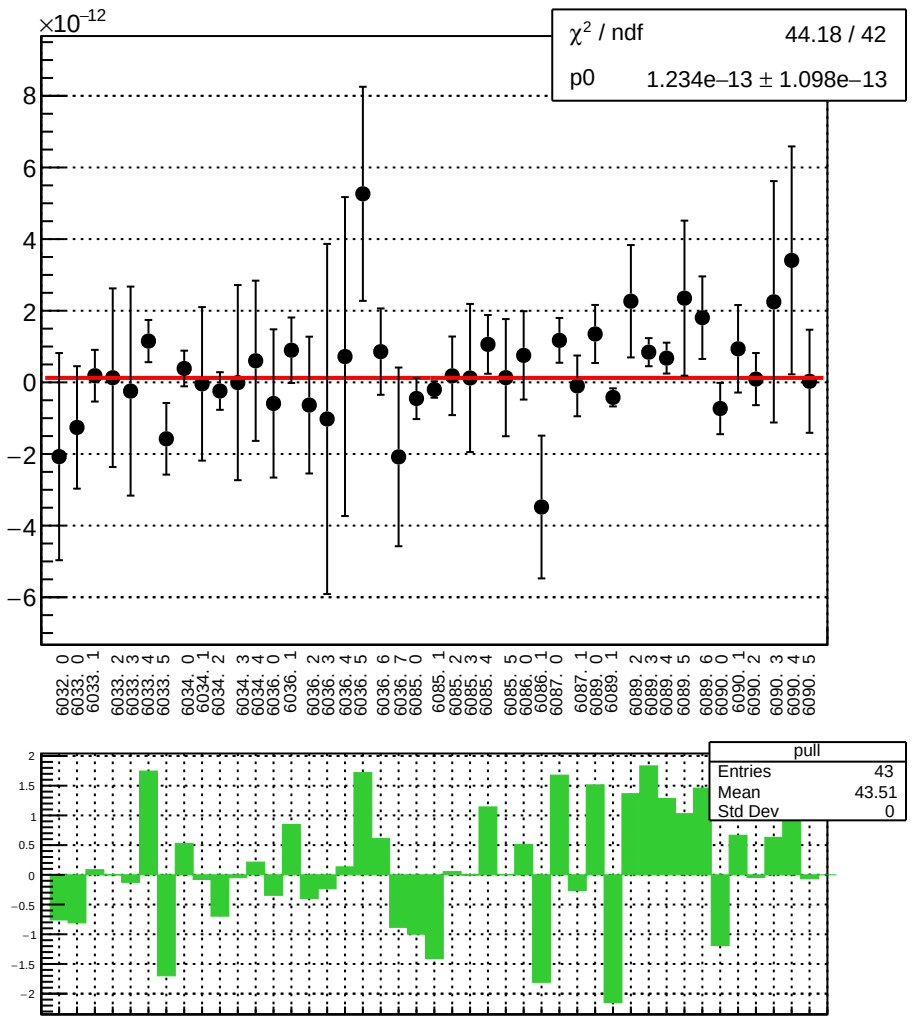

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.839e+04 / 42
p0 100.6 ± 0.1094
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

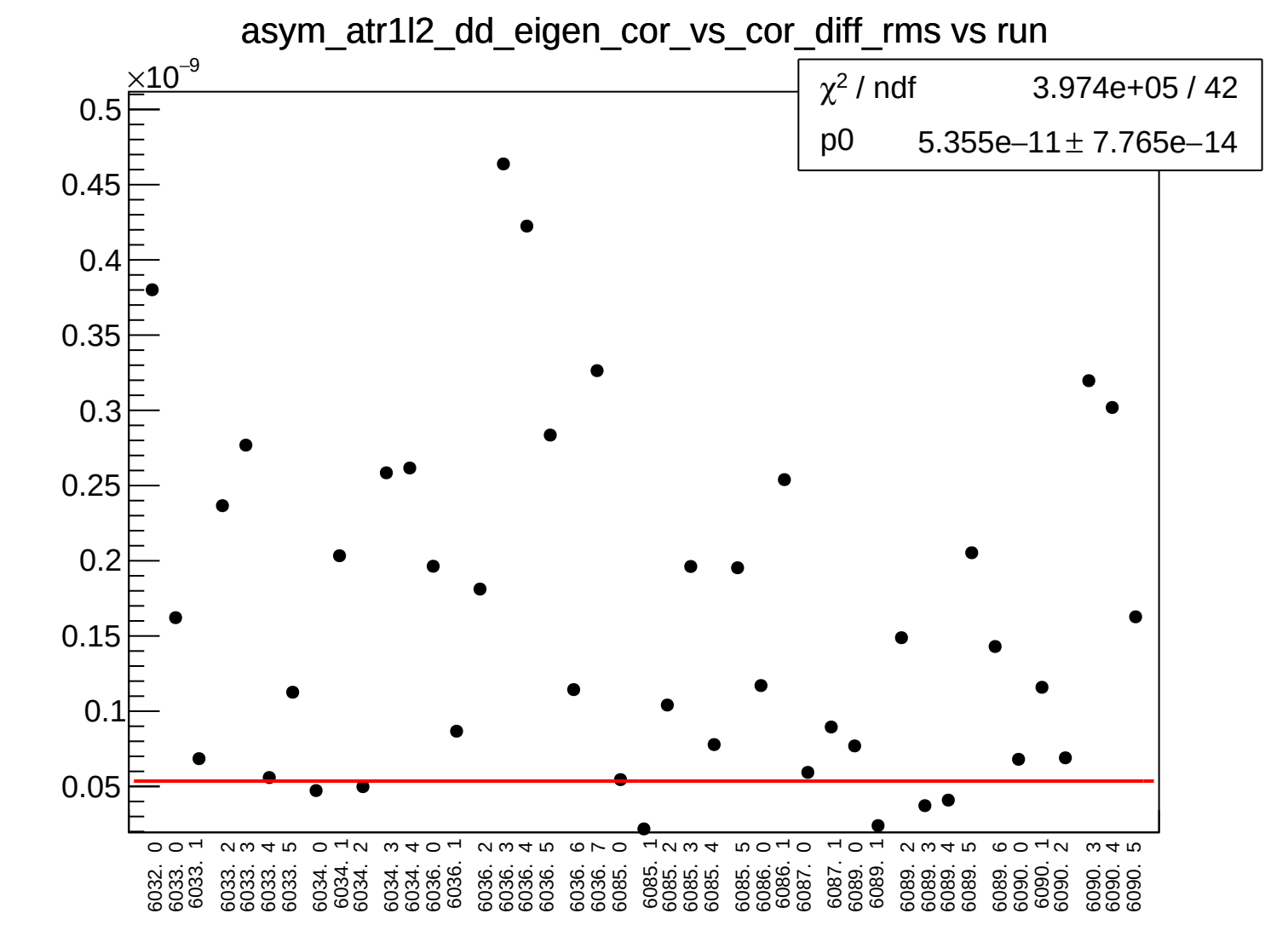
asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

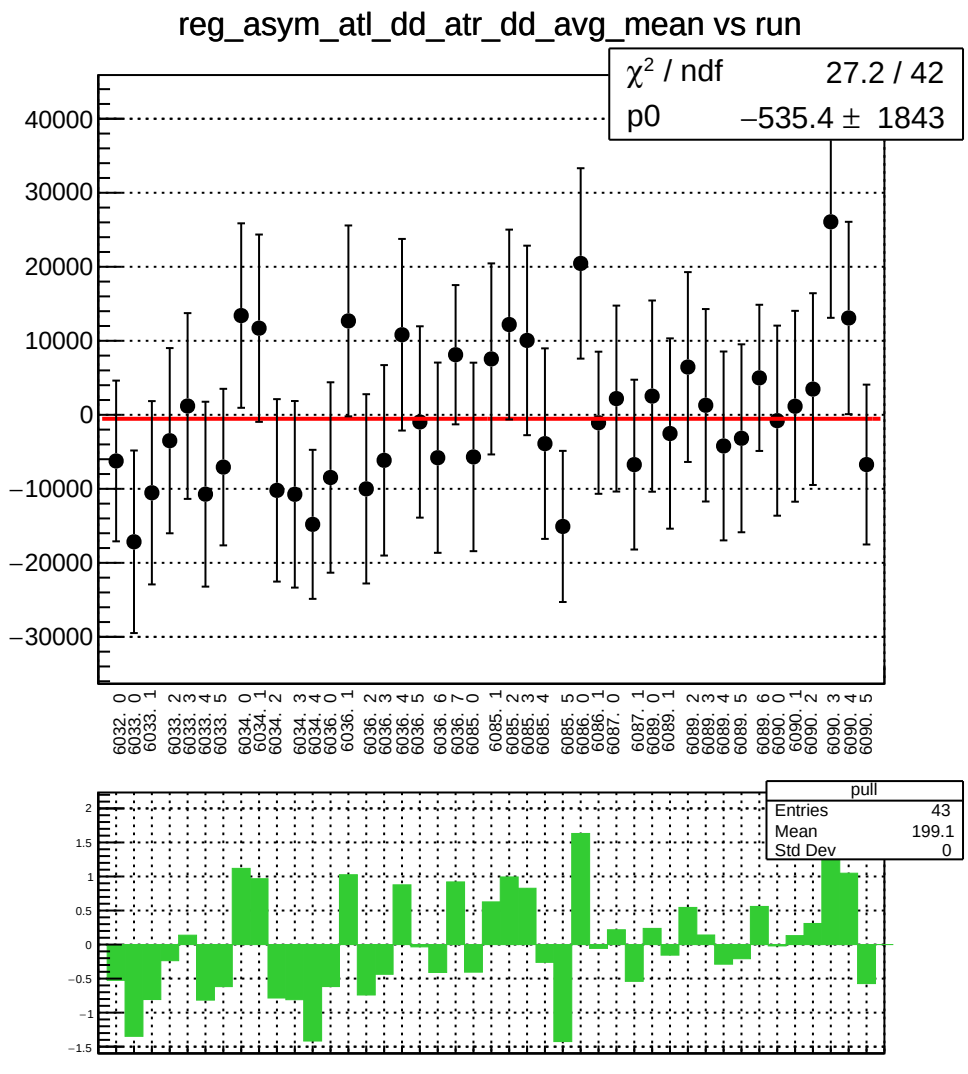


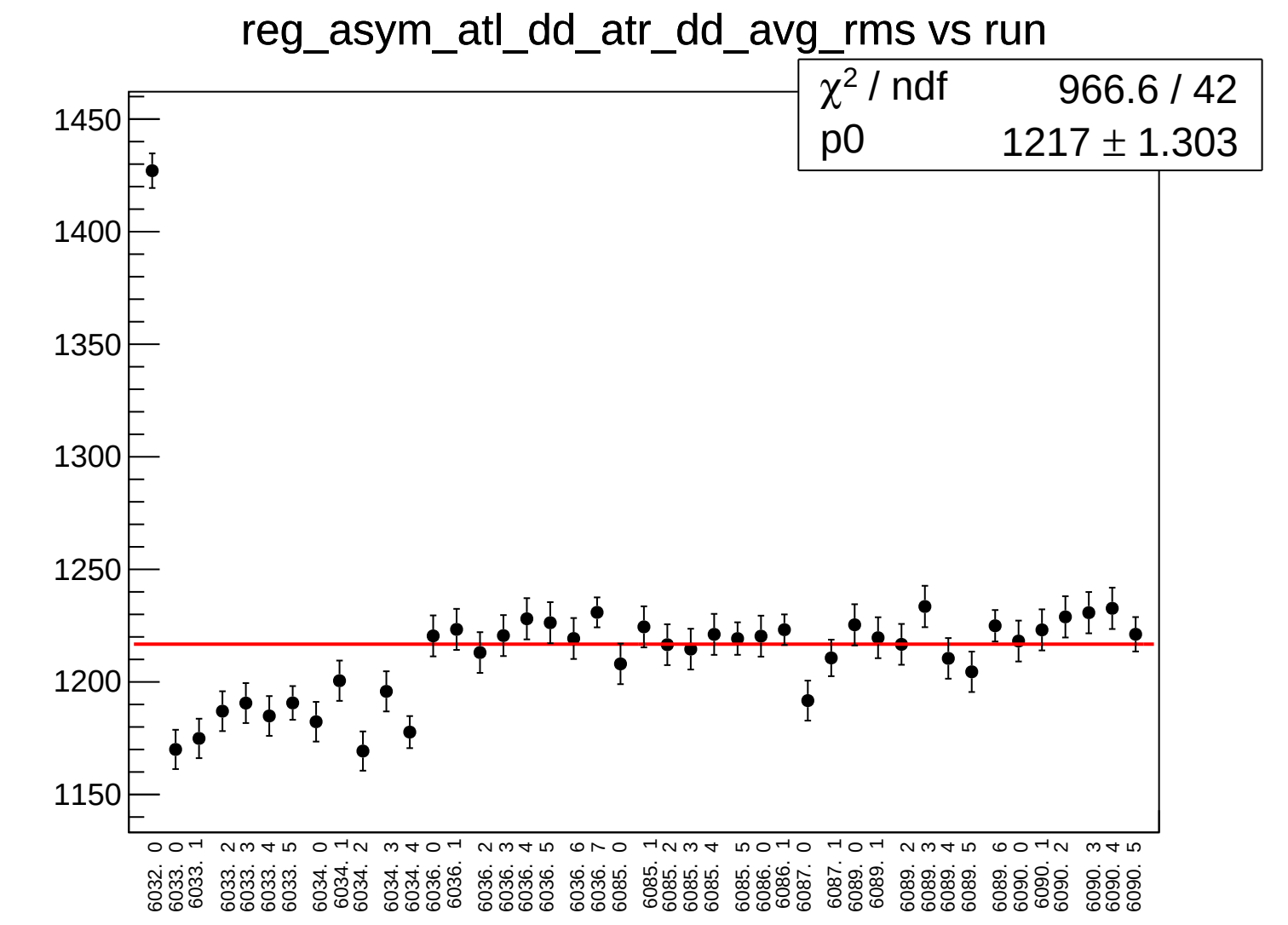


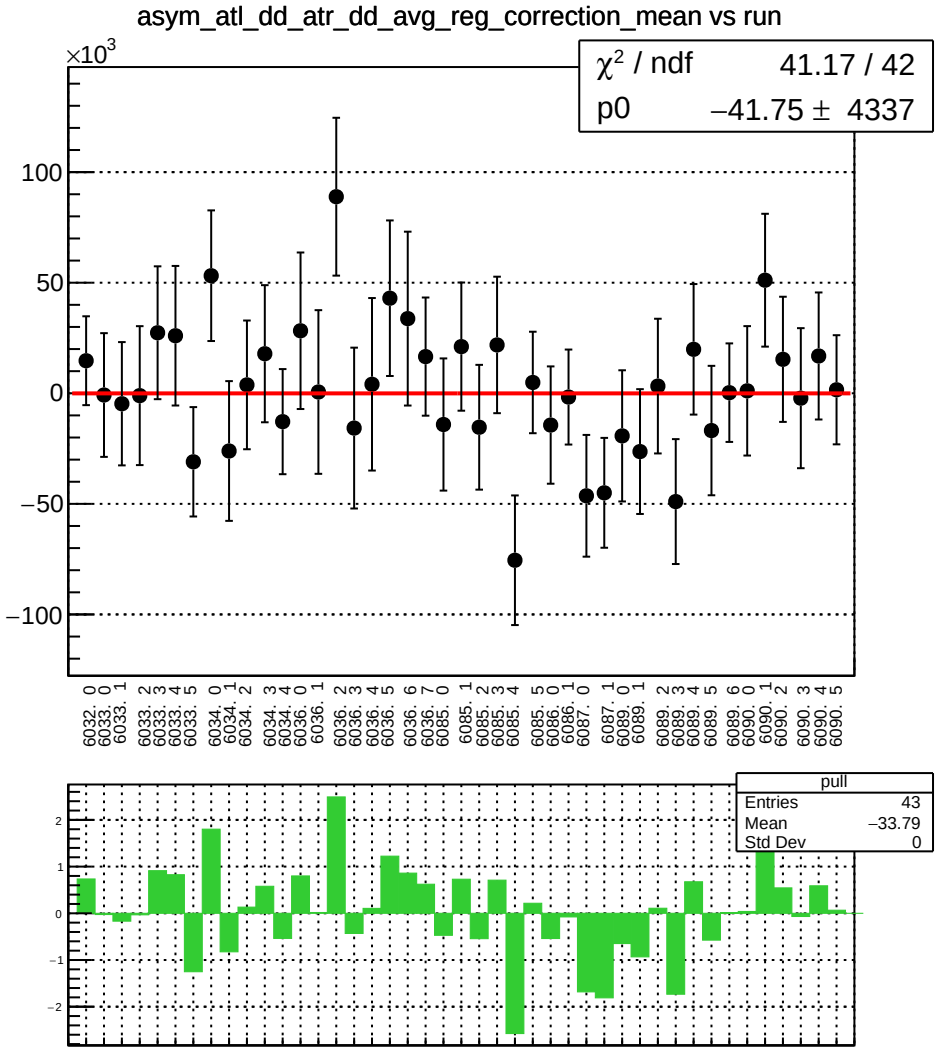

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.839e+04 / 42
p0 100.6 ± 0.1094
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

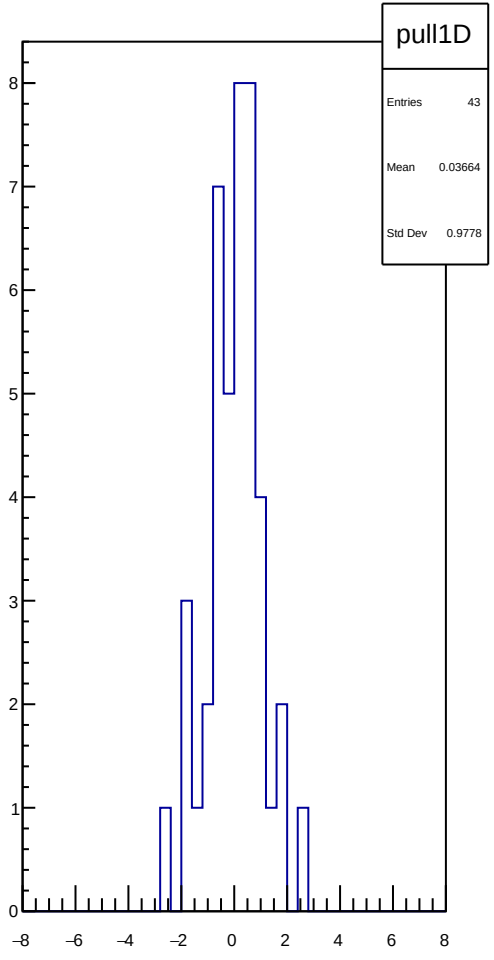

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.18 / 42
p0 1.234e−13 ± 1.098e−13
8
6
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 43.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1416
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

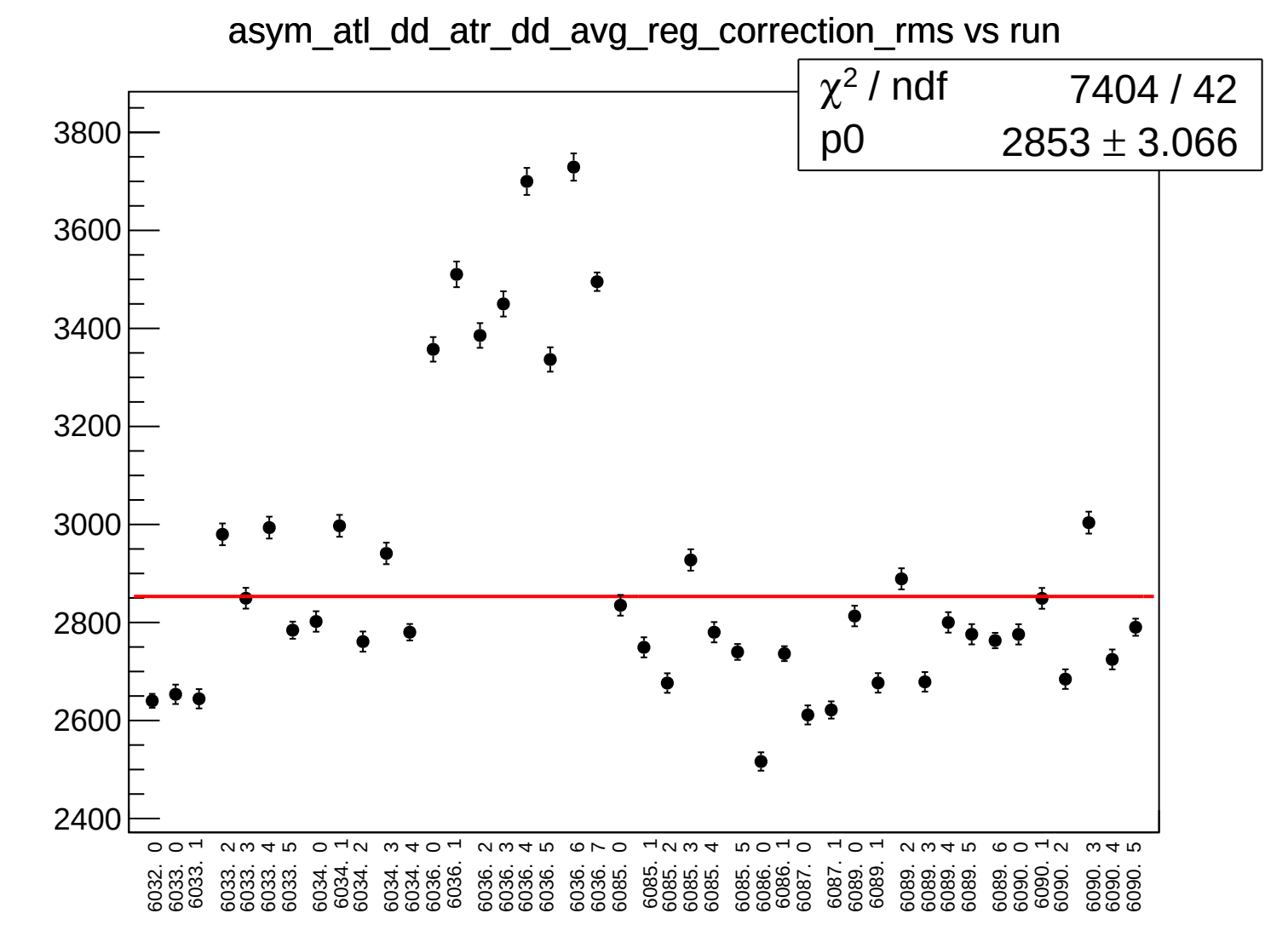

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.974e+05 / 42
p0 5.355e−11 ± 7.765e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

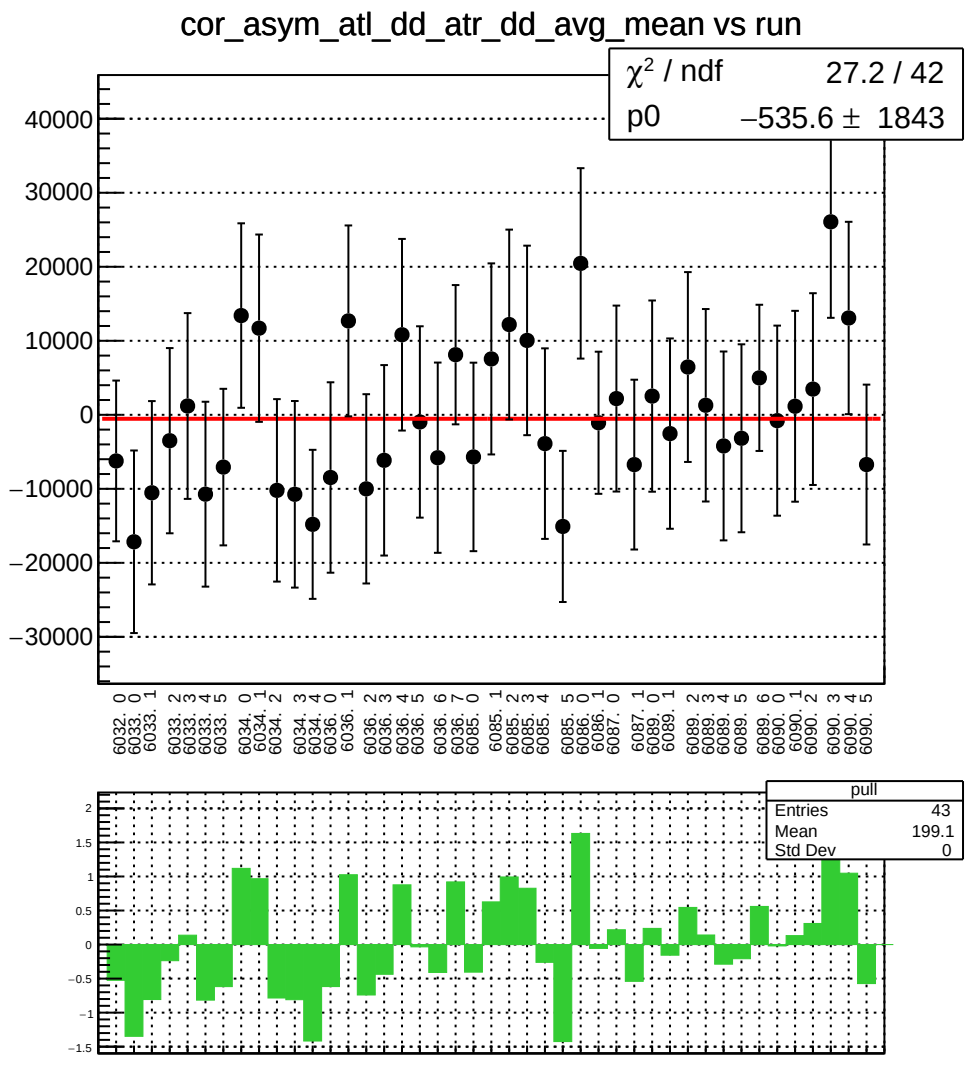

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 27.2 / 42
p0 −535.4 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

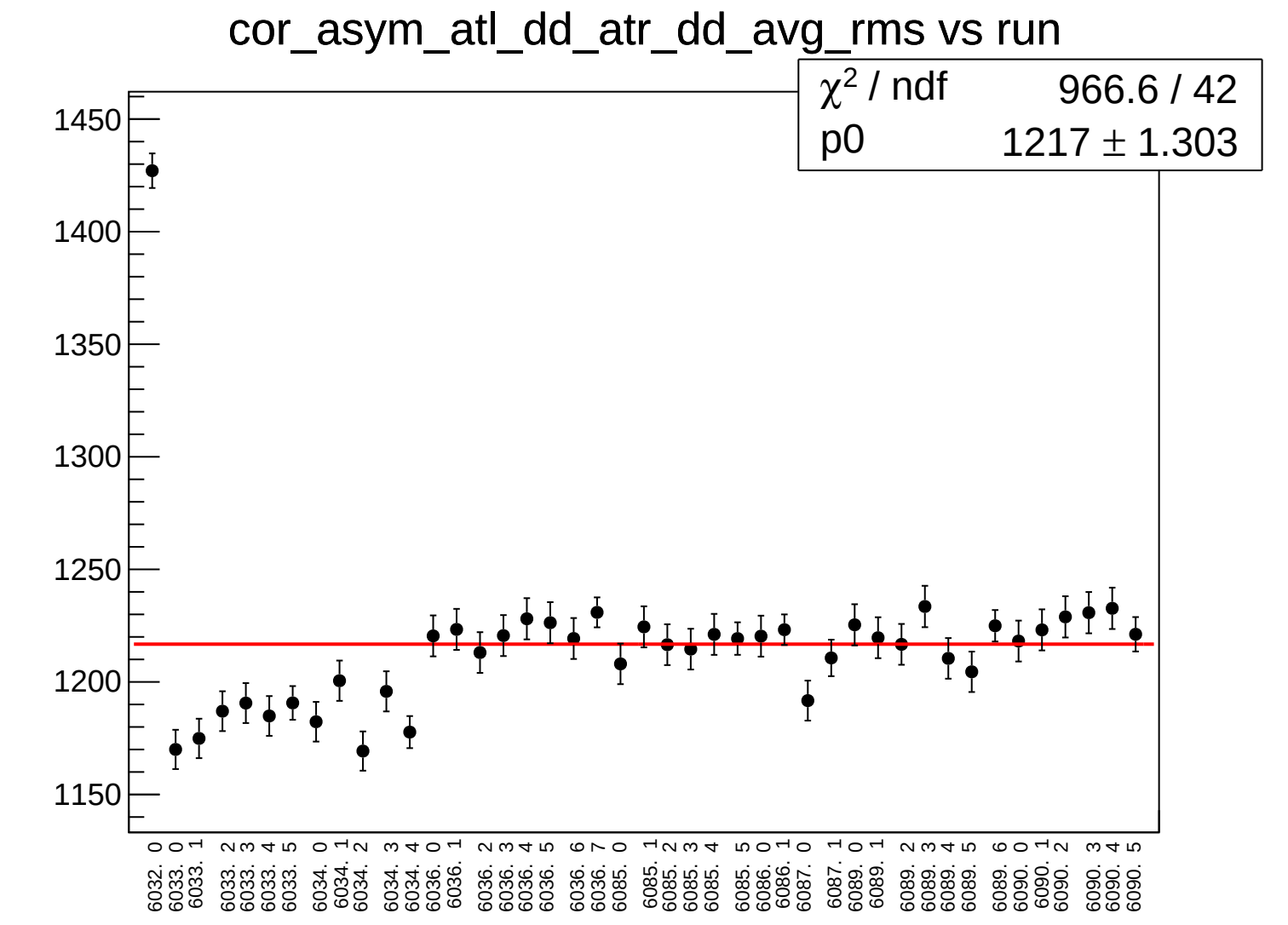

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

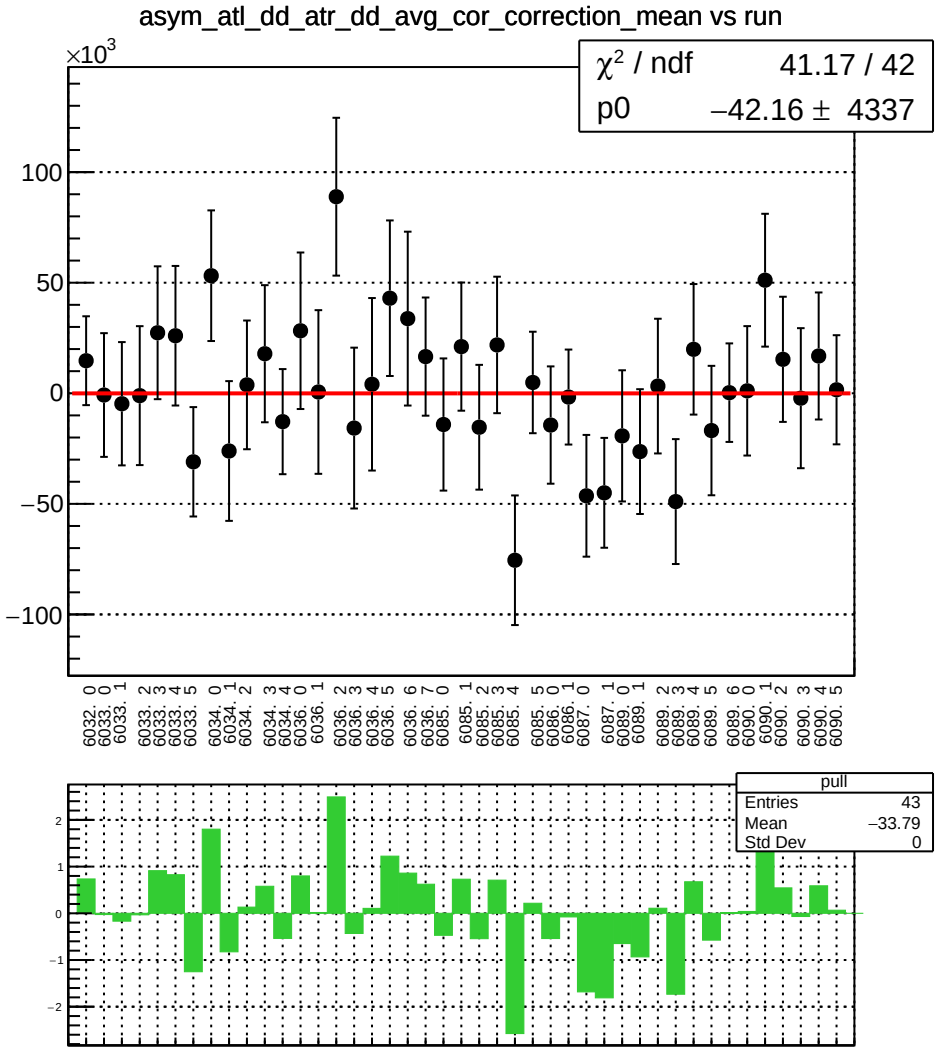

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −41.75 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2

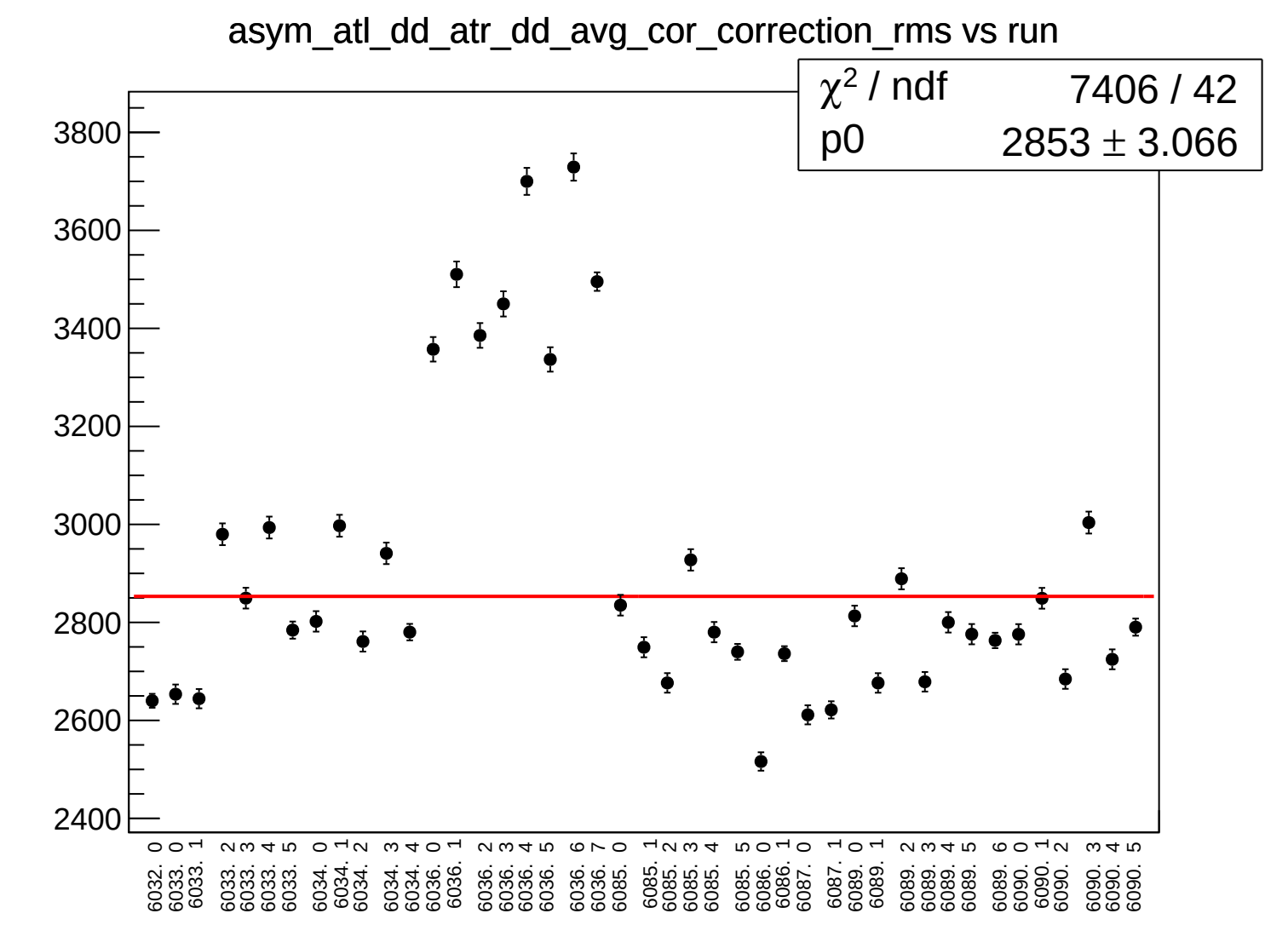

pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

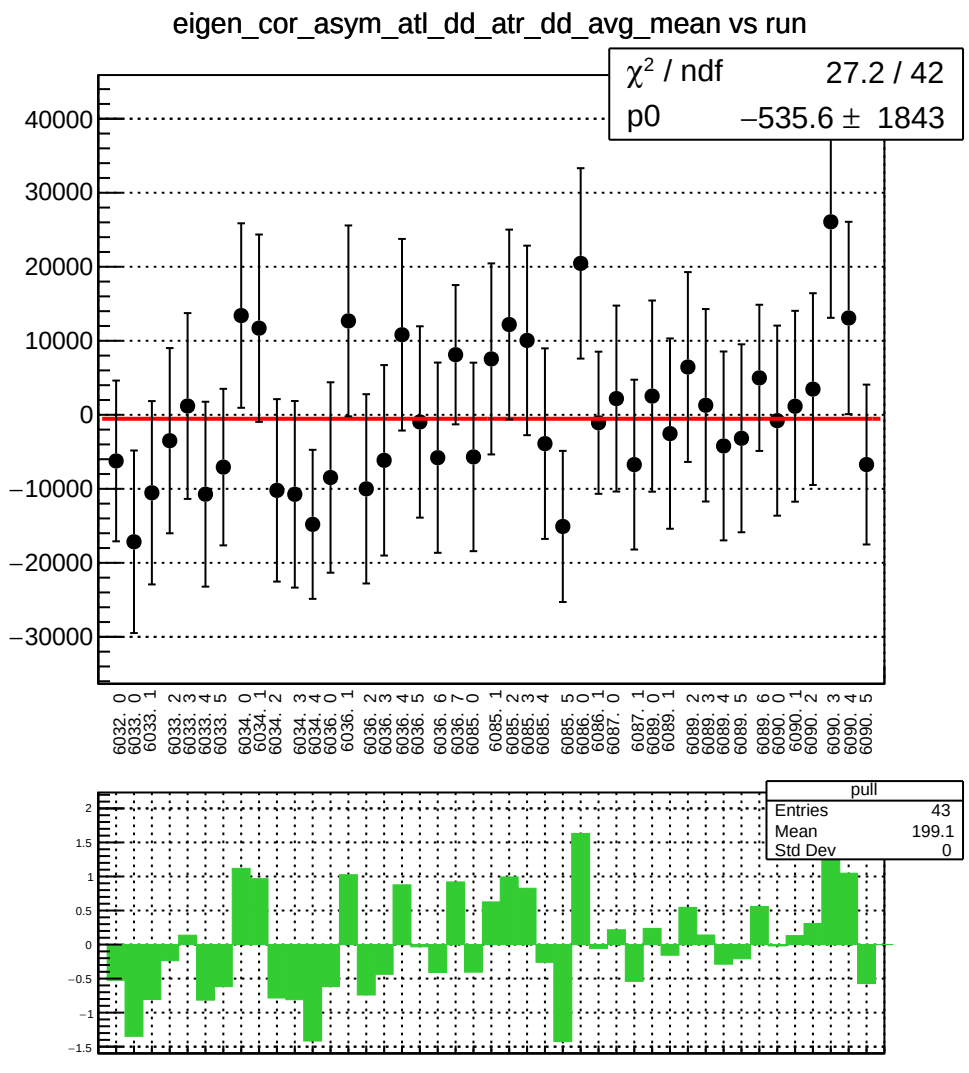

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 7404 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

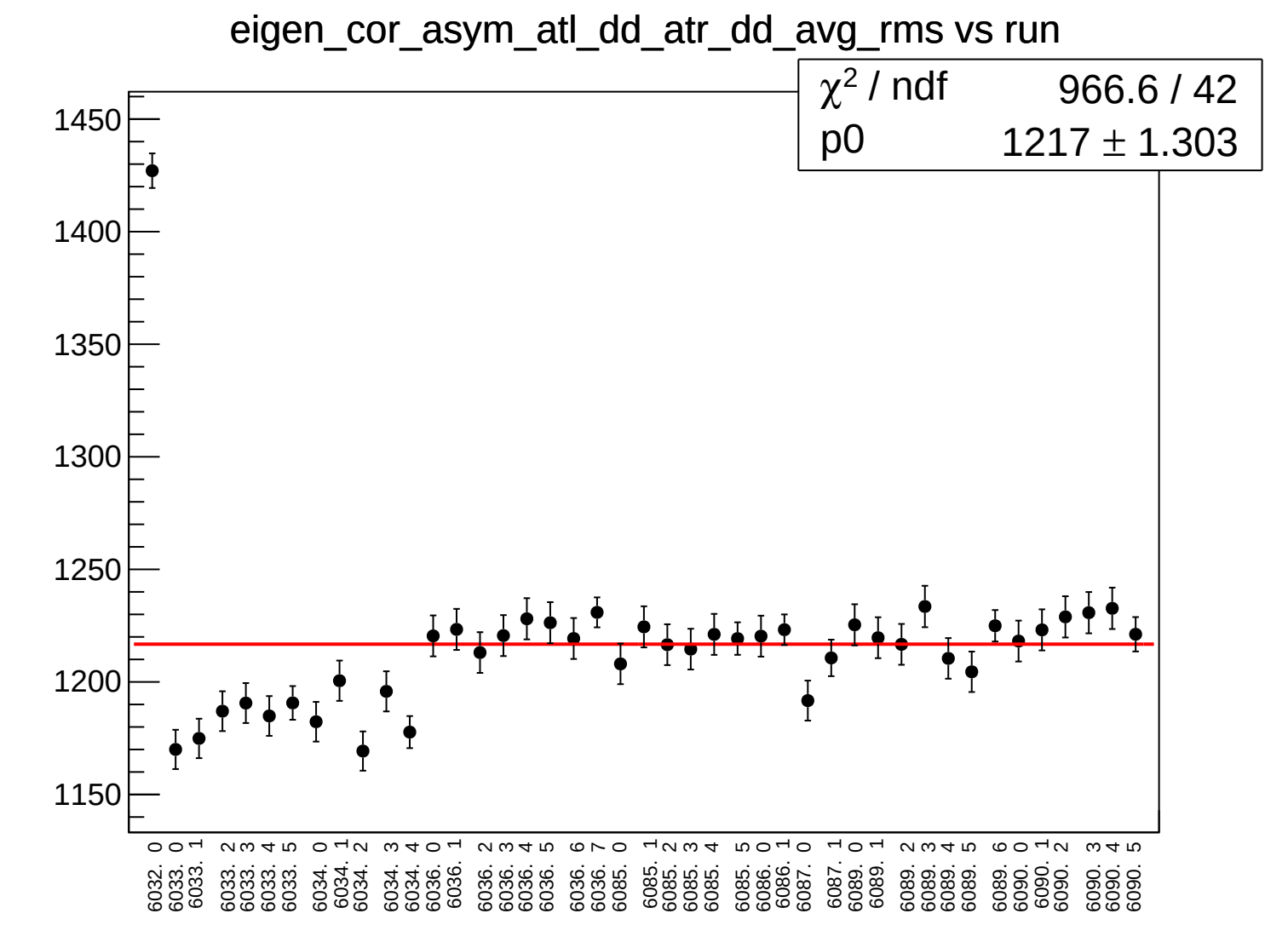

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 27.2 / 42
p0 −535.6 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

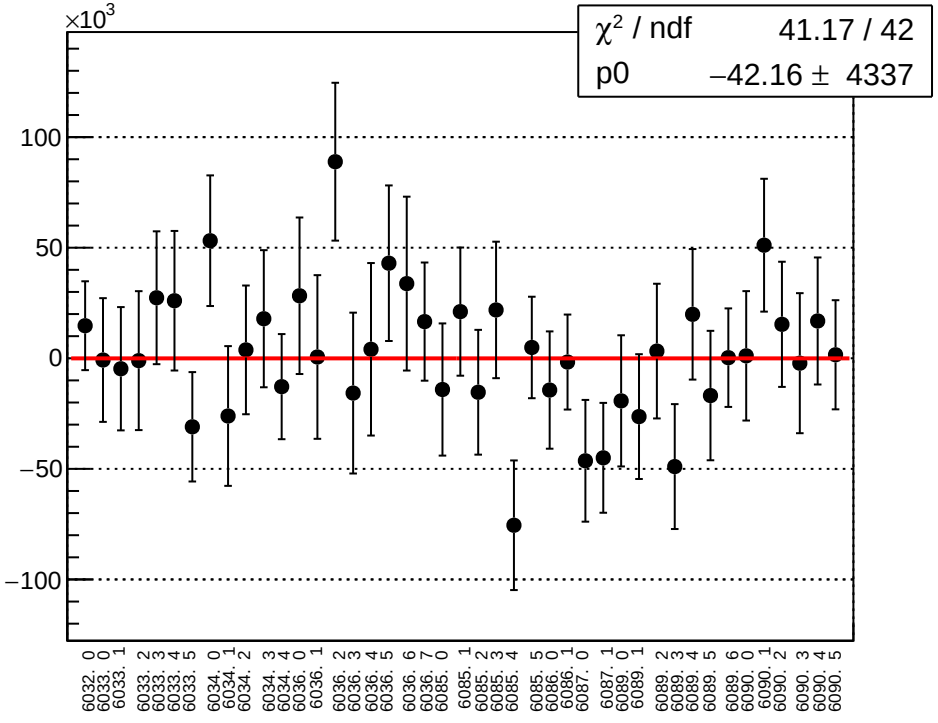

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −42.16 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

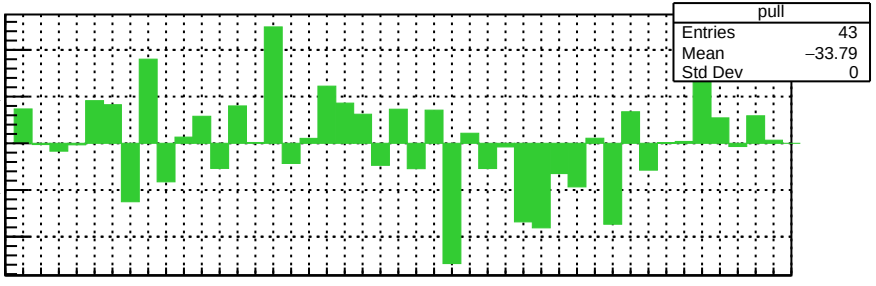

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 7406 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

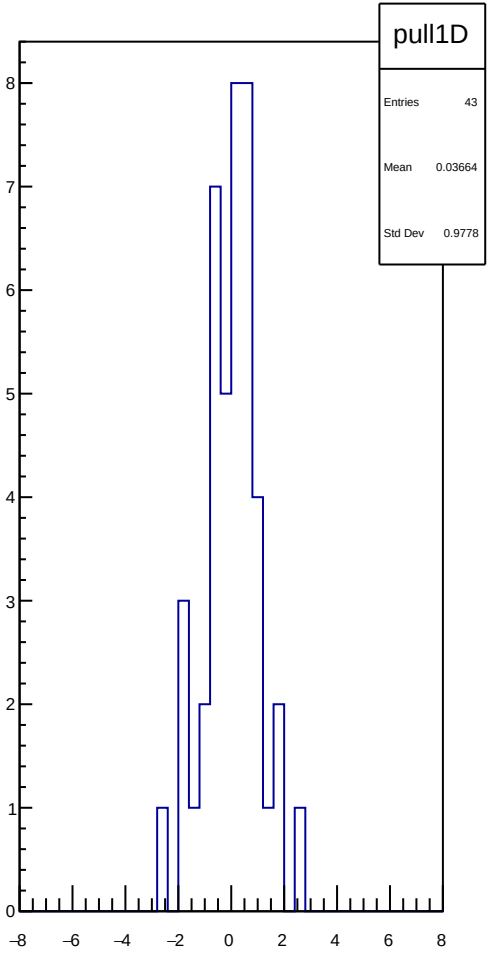

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 27.2 / 42
p0 −535.6 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

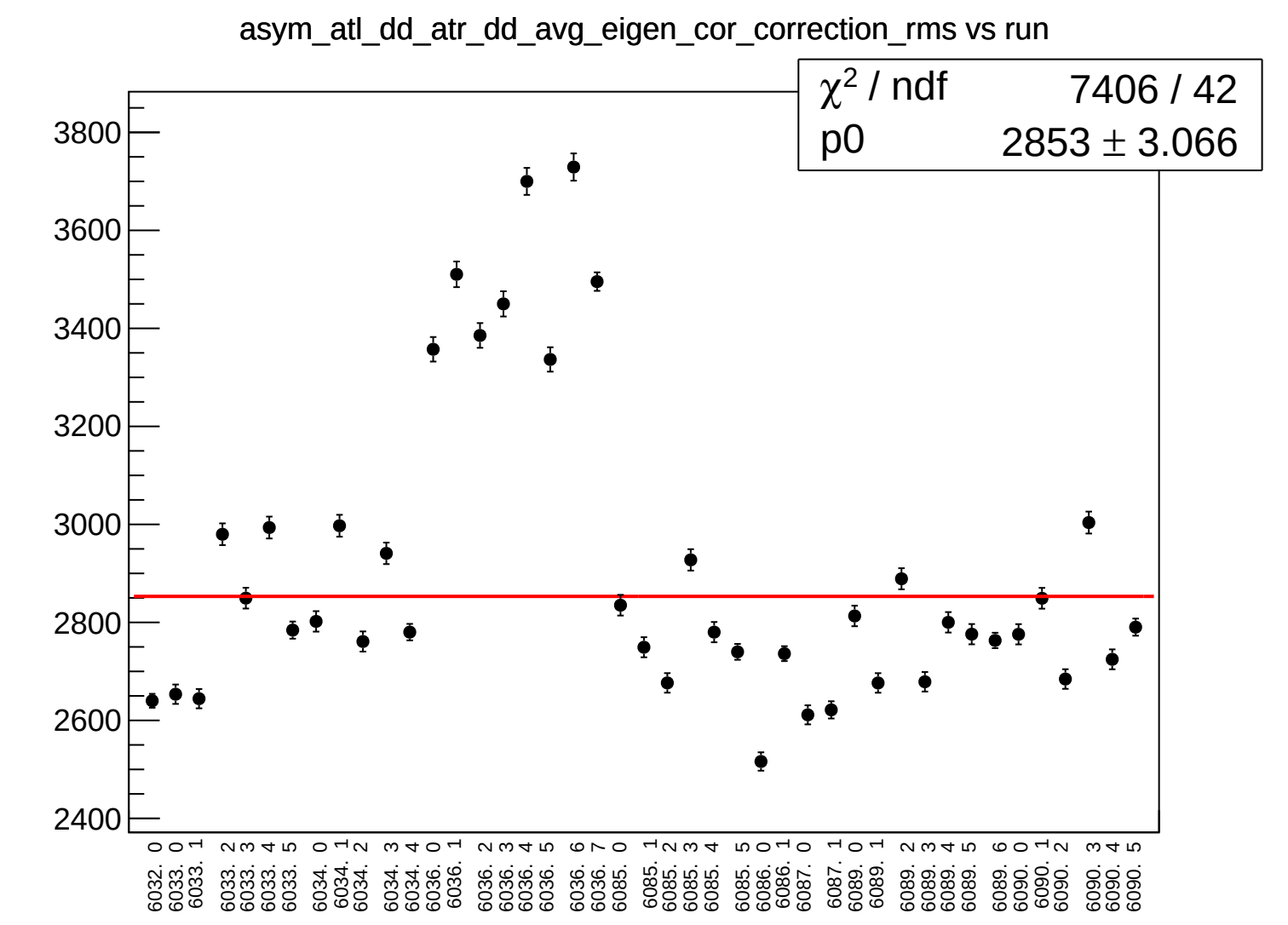

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

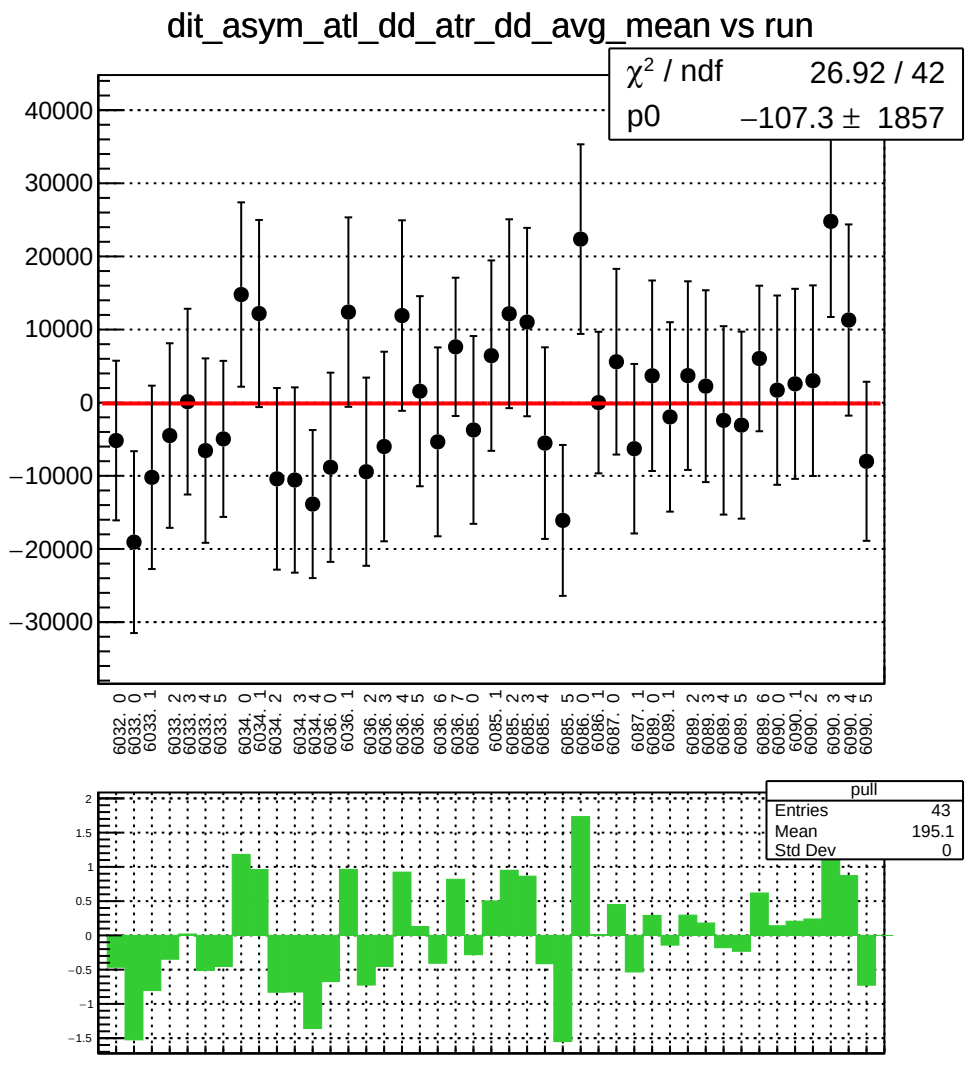
asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run

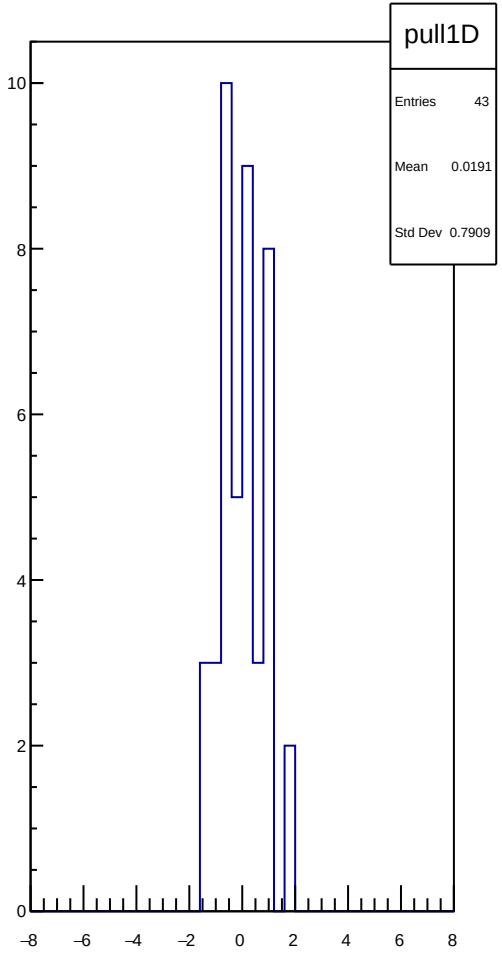


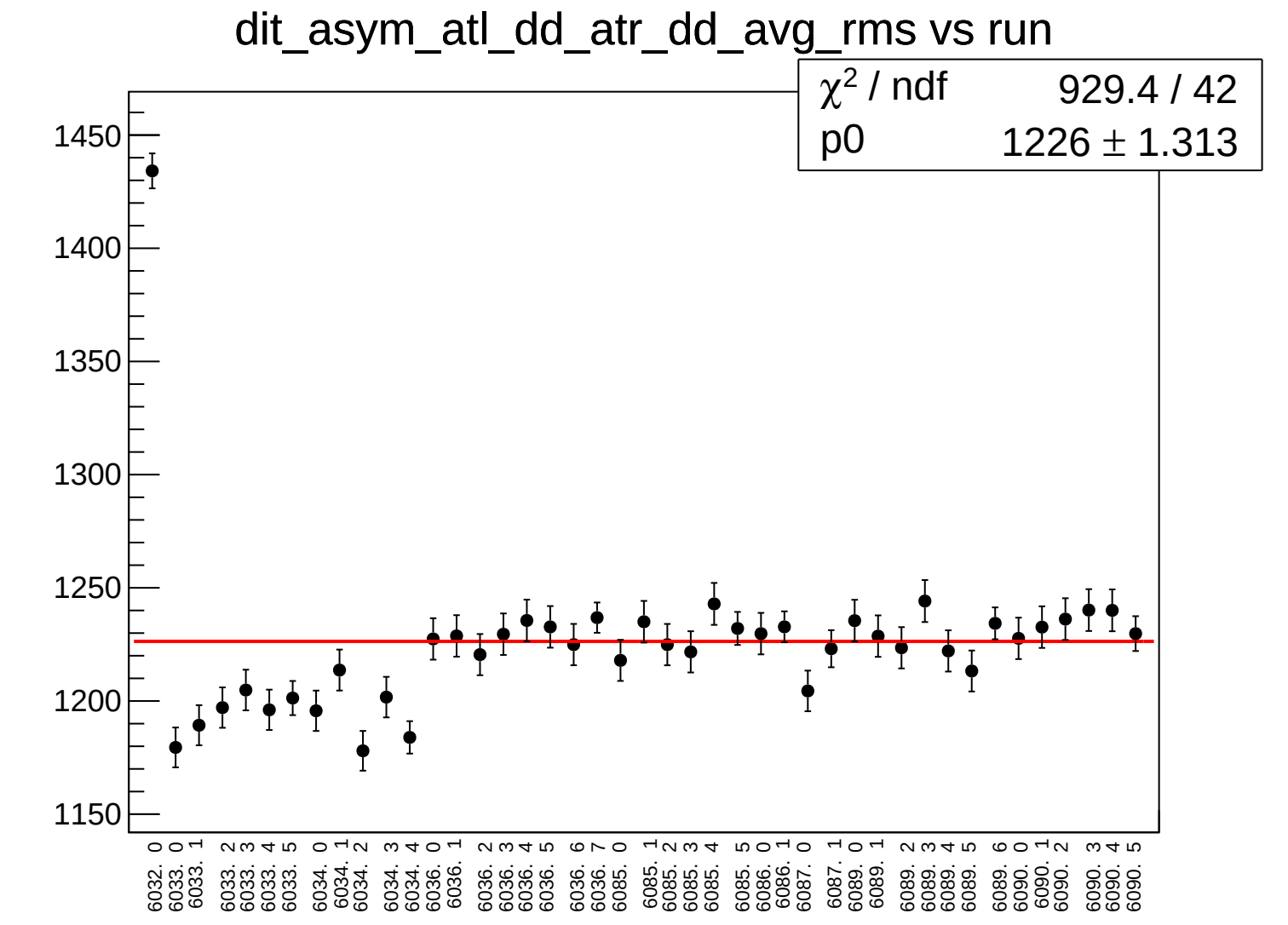


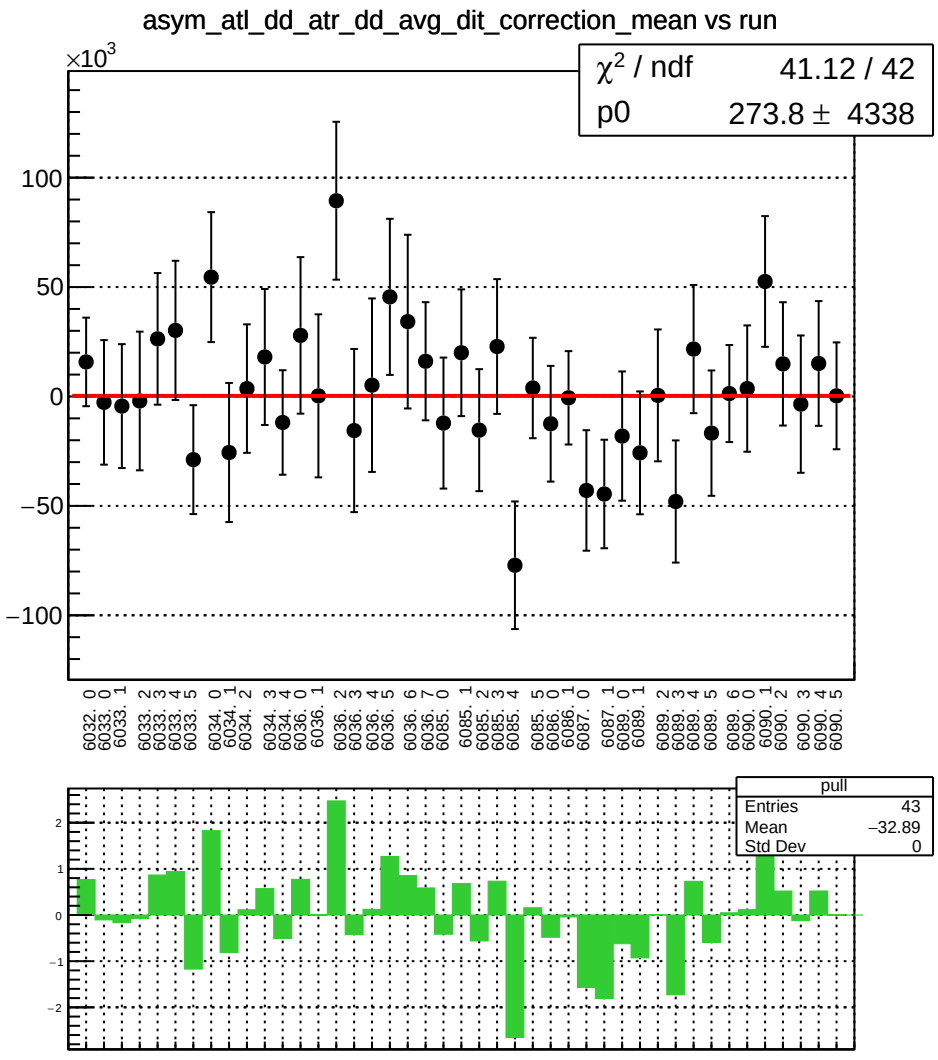


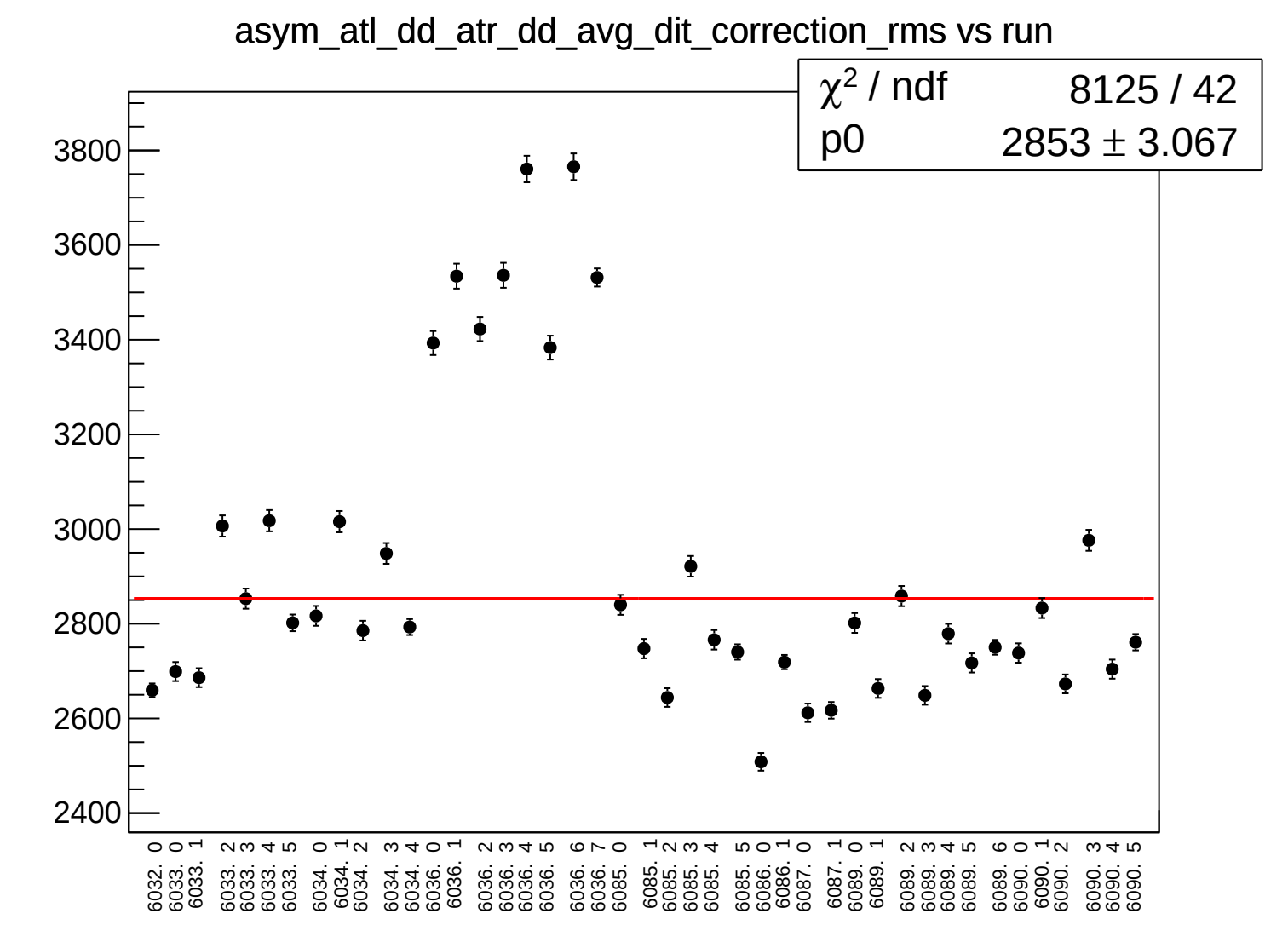

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7406 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

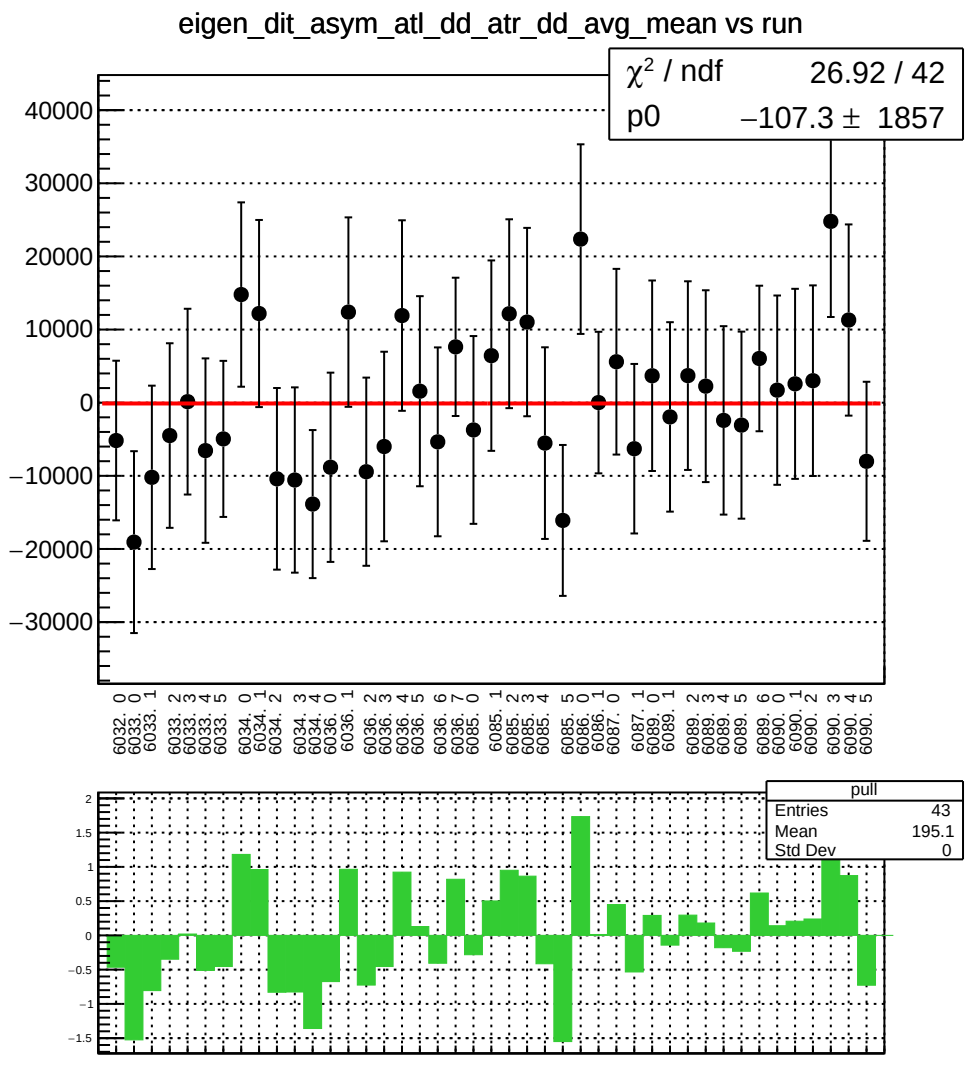

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 26.92 / 42
p0 −107.3 ± 1857
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

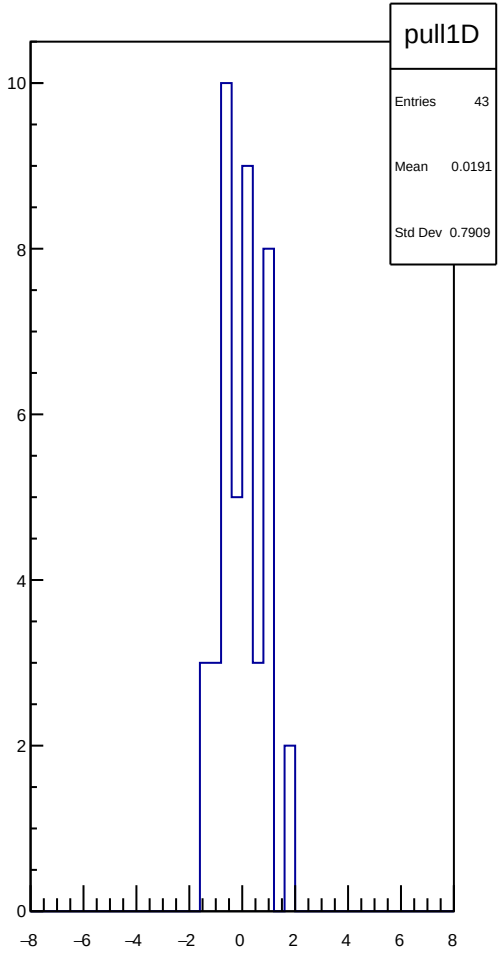

pull1D
Entries 43
Mean 0.0191
Std Dev 0.7909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

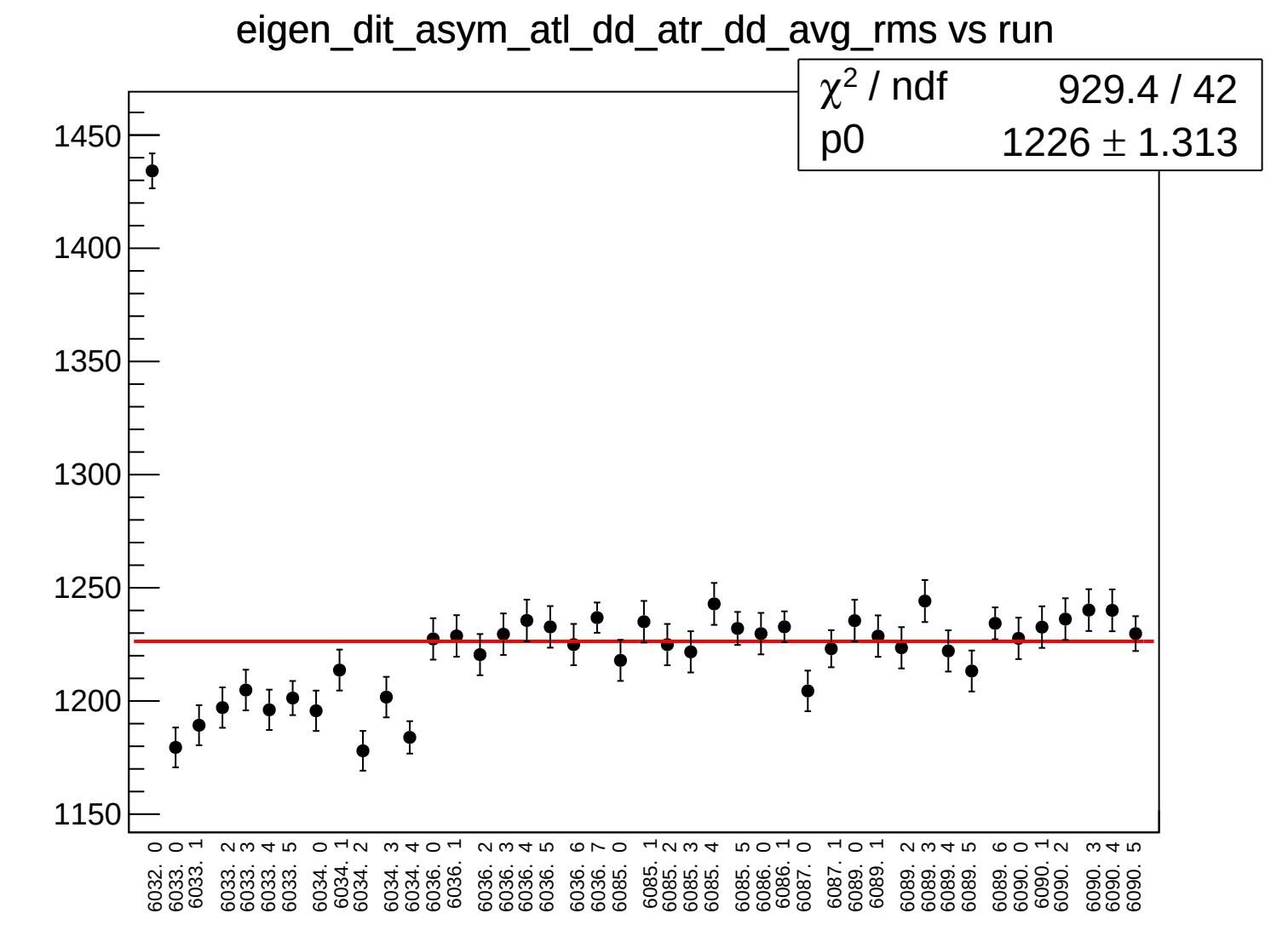

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 929.4 / 42
p0 1226 ± 1.313
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

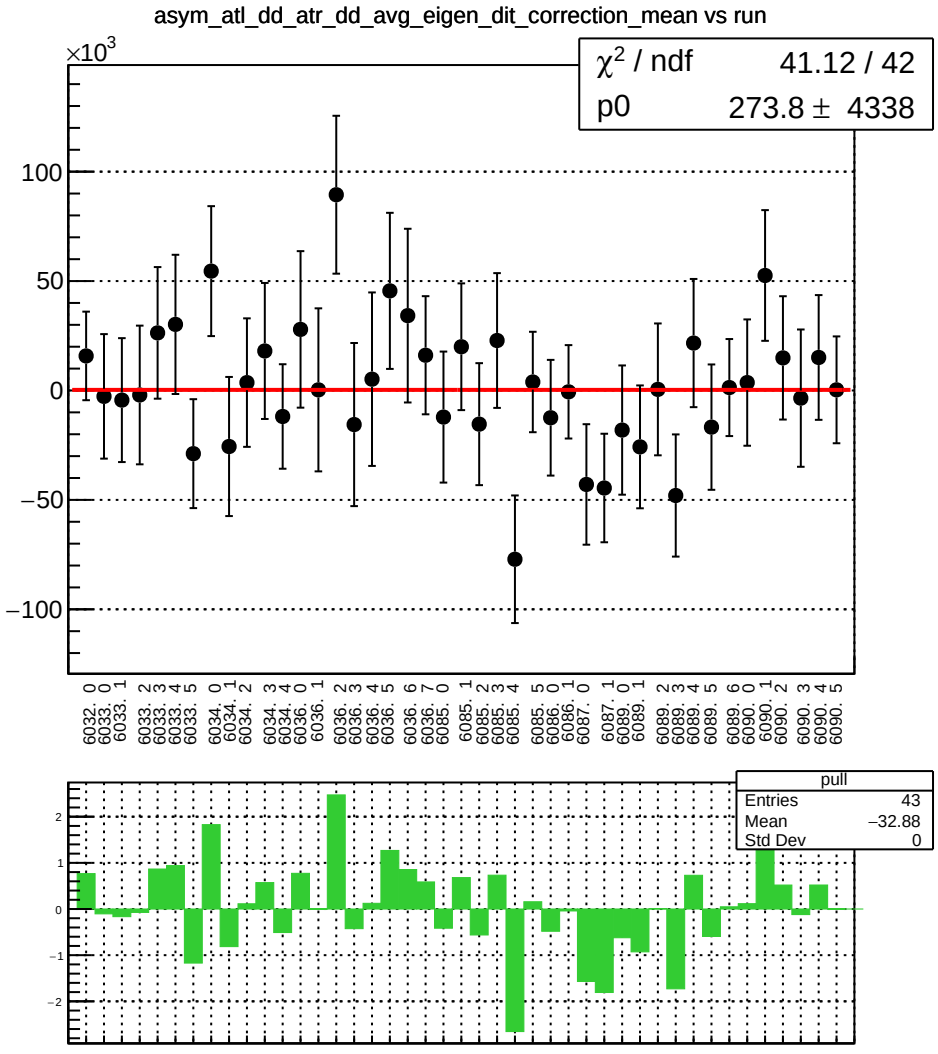

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.12 / 42
p0 273.8 ± 4338
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03813
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

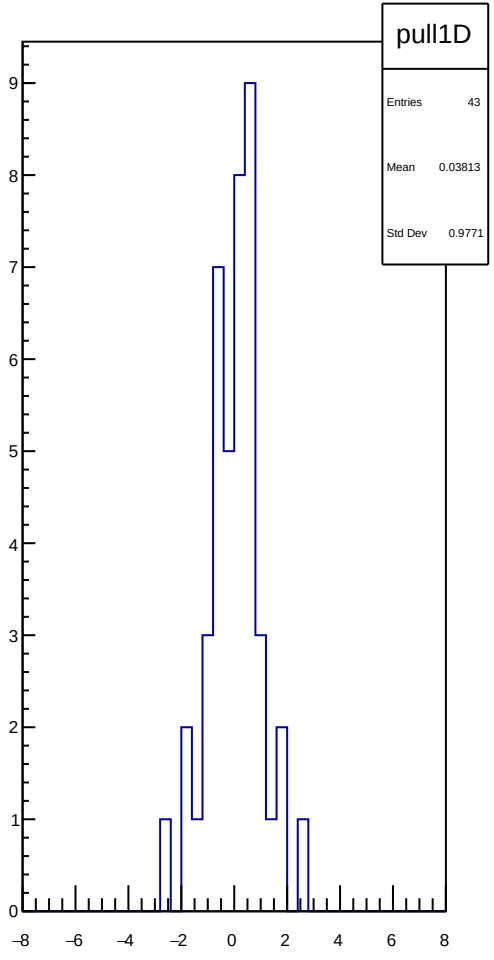

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 8125 / 42
p0 2853 ± 3.067
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

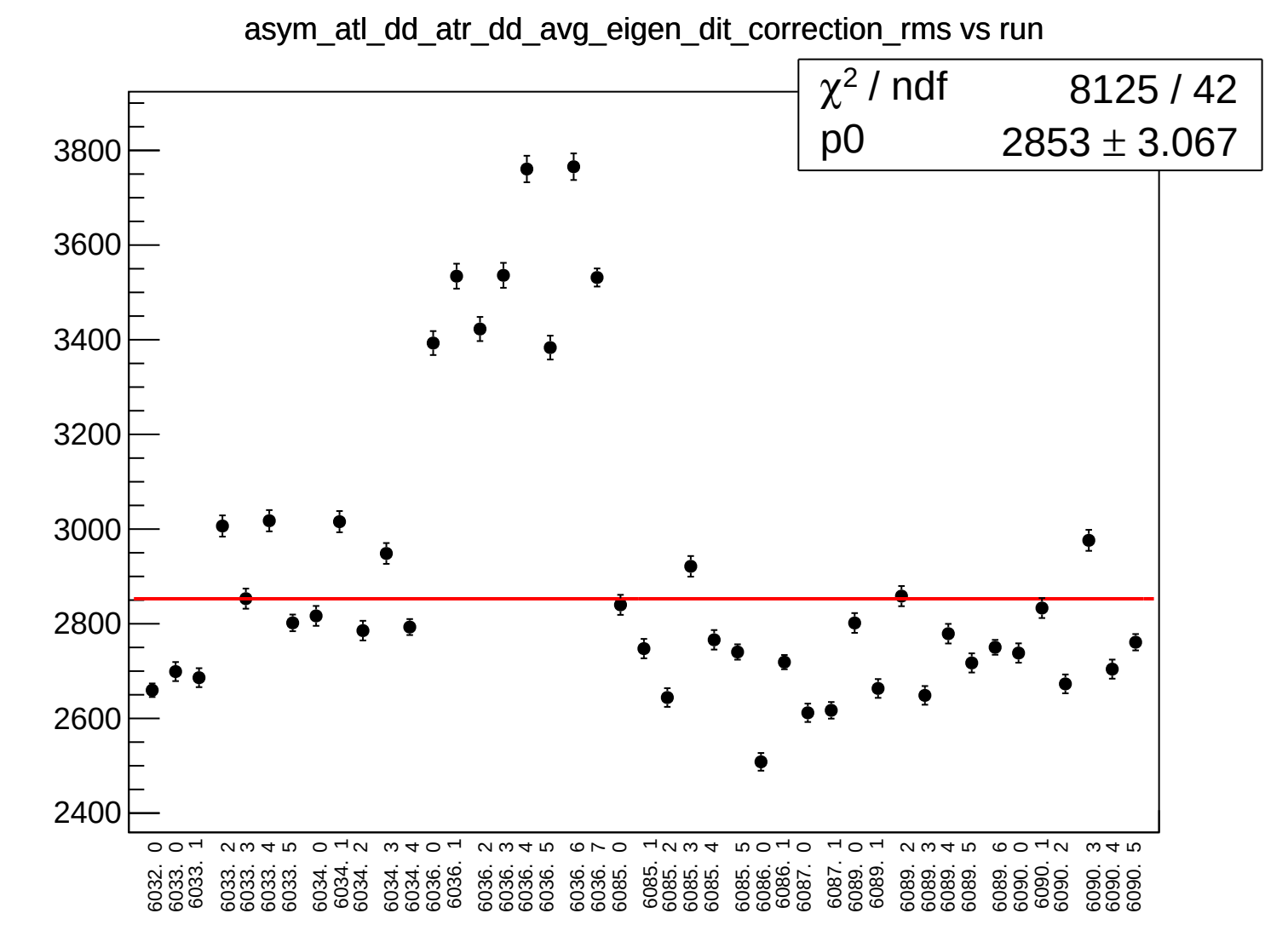

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 26.92 / 42
p0 −107.3 ± 1857
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

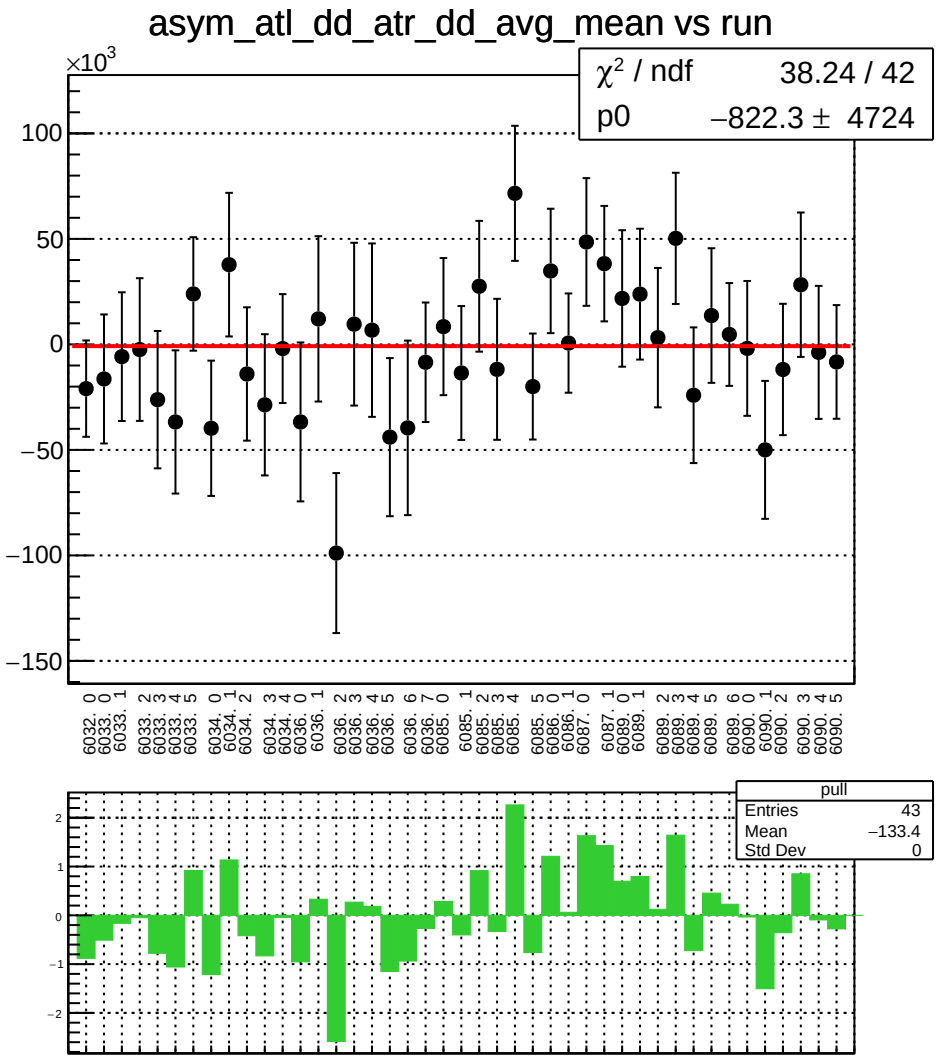

pull1D
Entries 43
Mean 0.0191
Std Dev 0.7909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

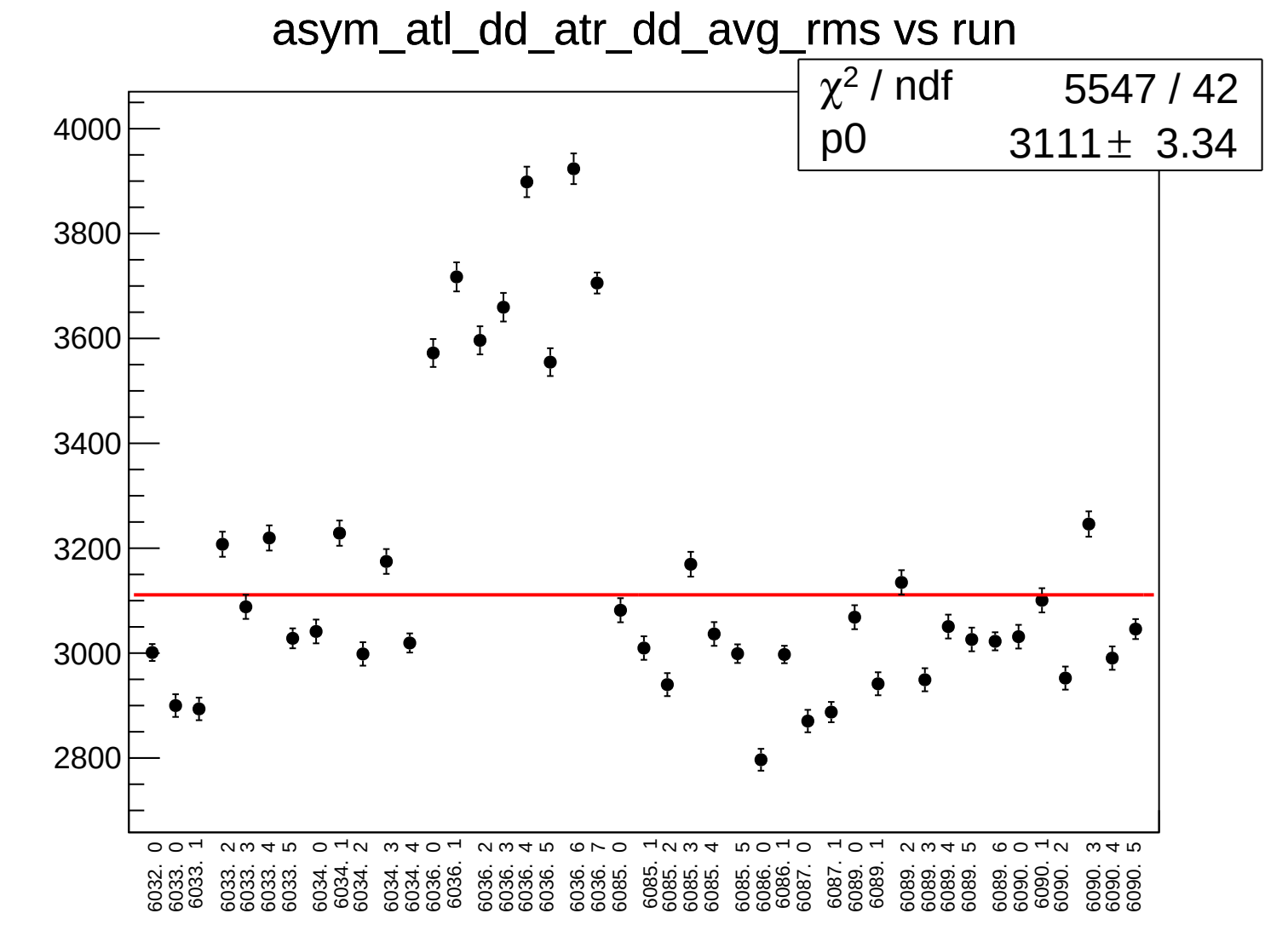

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 929.4 / 42
p0 1226 ± 1.313
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

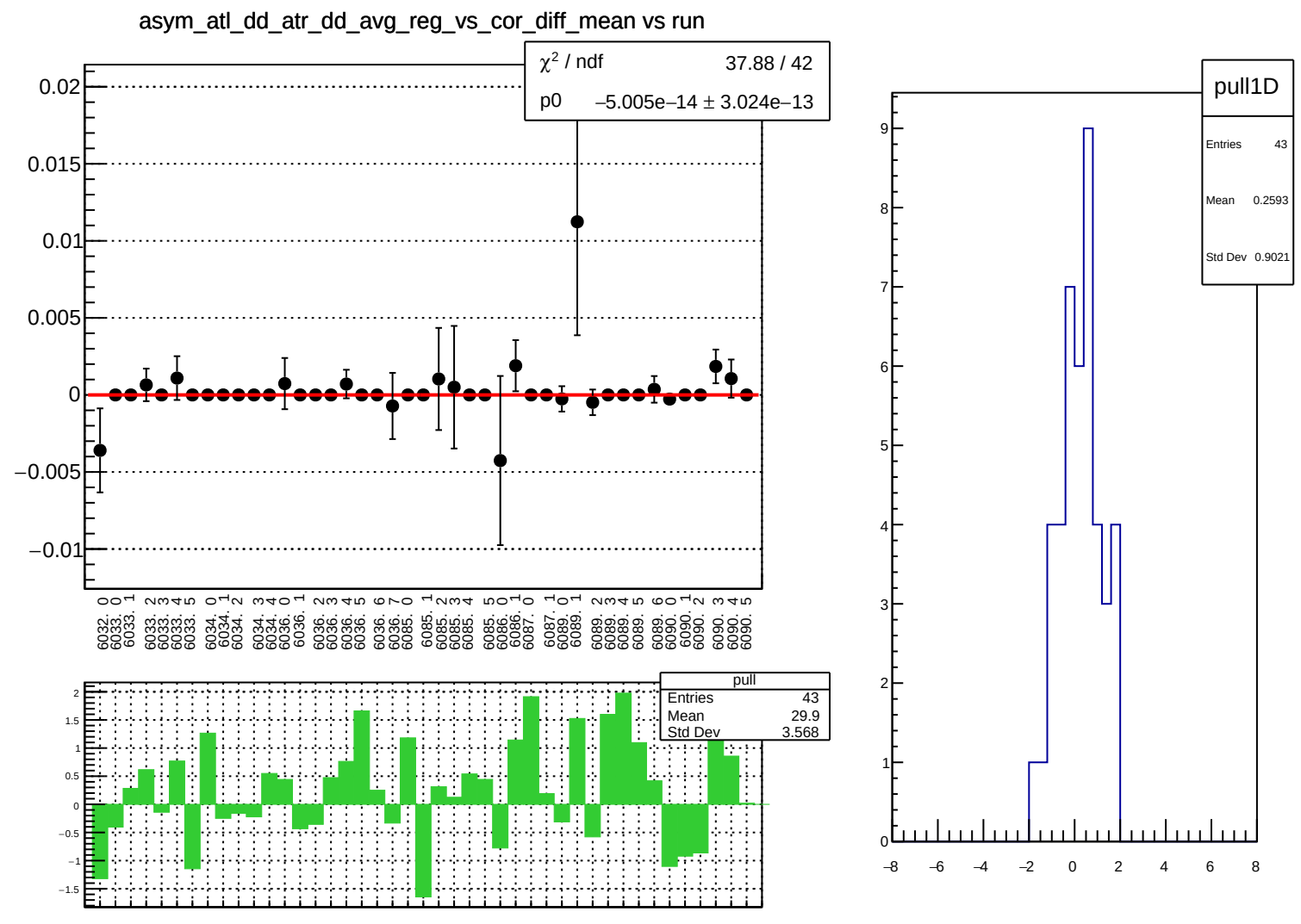

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.12 / 42
p0 273.8 ± 4338
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.88
Std Dev 0
2
1
0
−1
−2

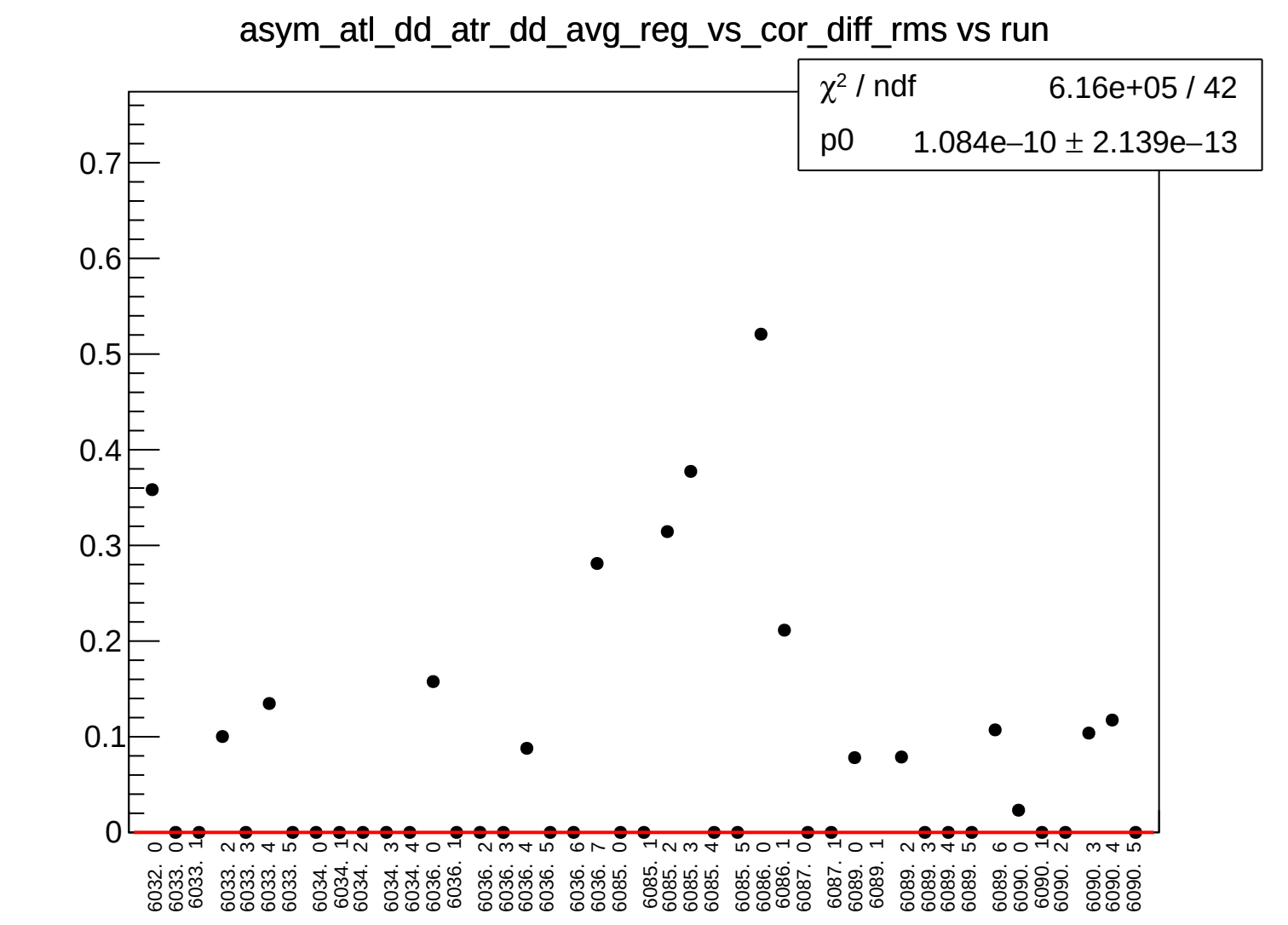

pull1D
Entries 43
Mean 0.03813
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

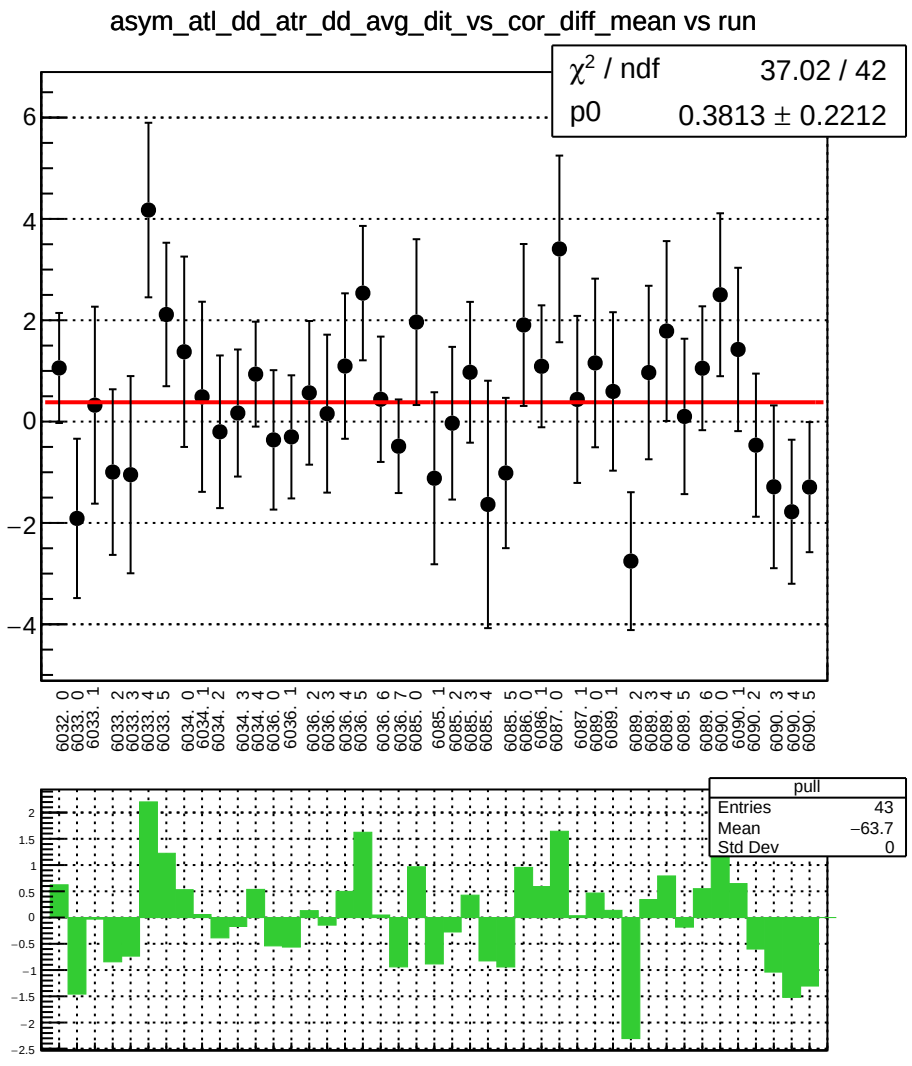

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8125 / 42
p0 2853 ± 3.067
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

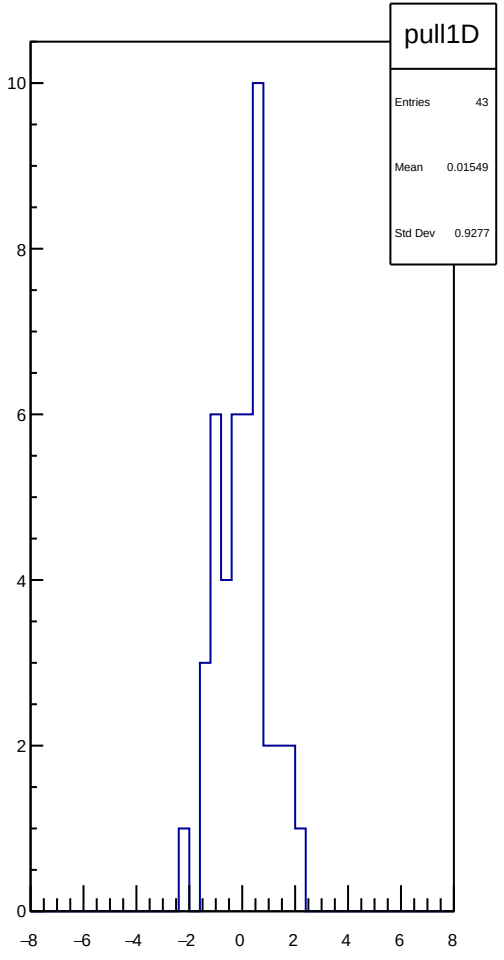

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 38.24 / 42
p0 −822.3 ± 4724
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −133.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02101
Std Dev 0.9428
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

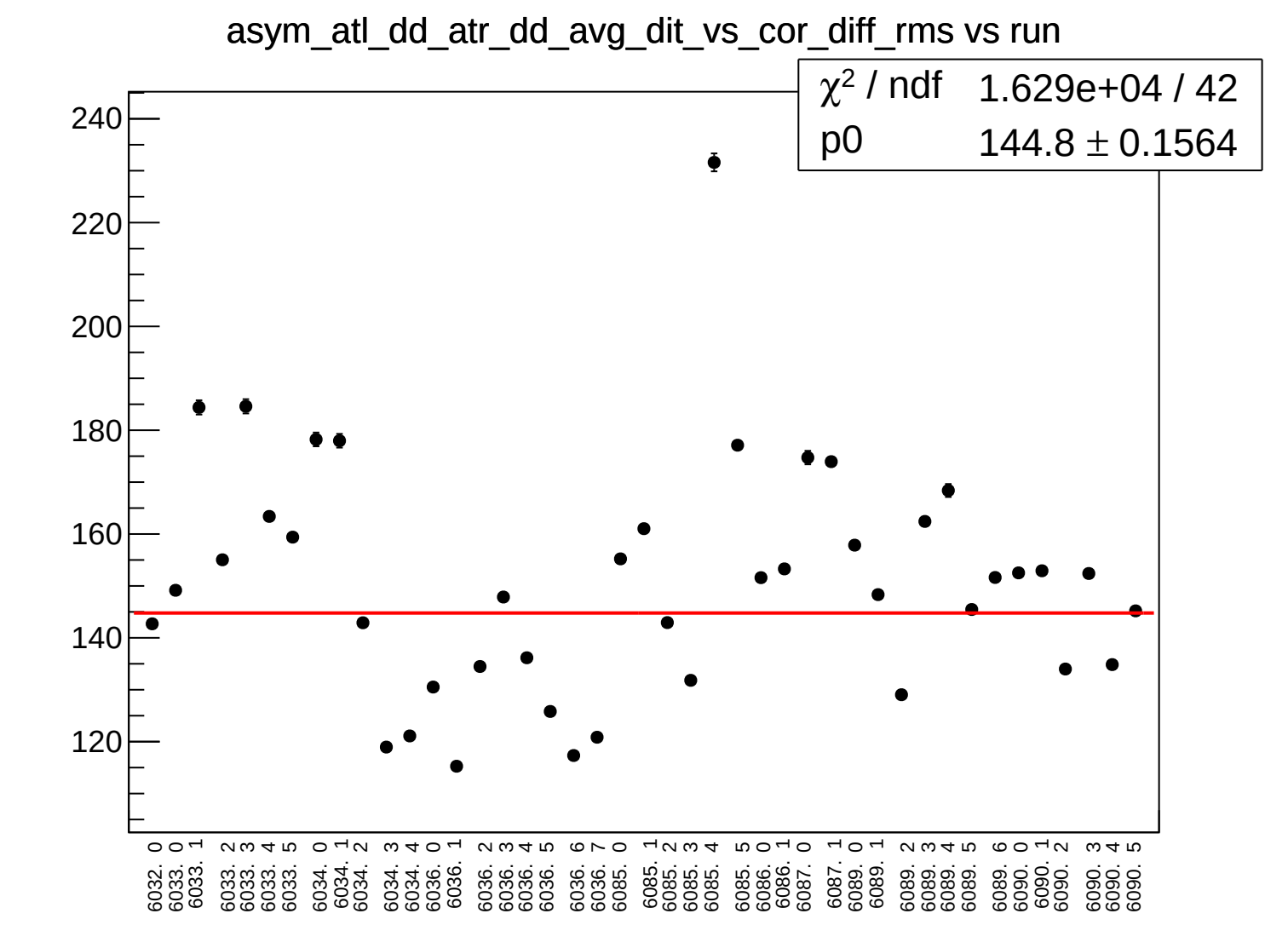

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5547 / 42
p0 3111 ± 3.34
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

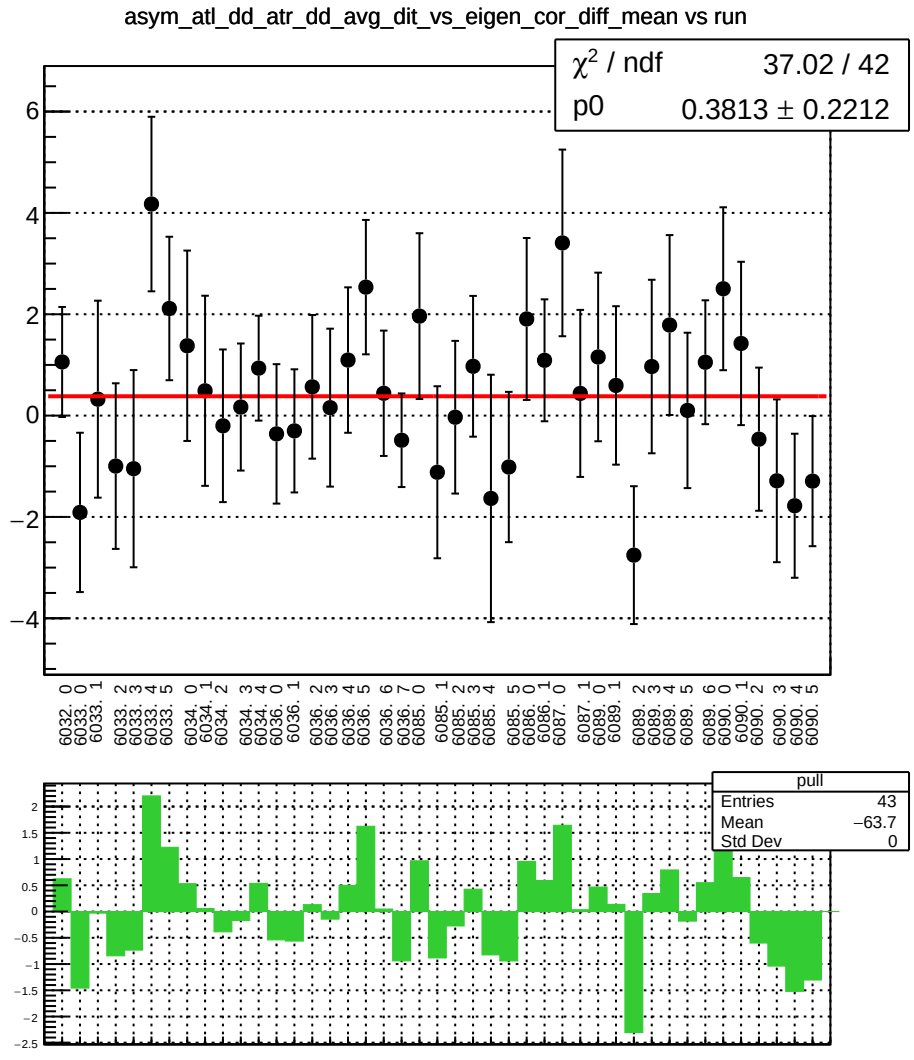

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 37.88 / 42
p0 −5.005e−14 ± 3.024e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 29.9
Std Dev 3.568
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2593
Std Dev 0.9021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

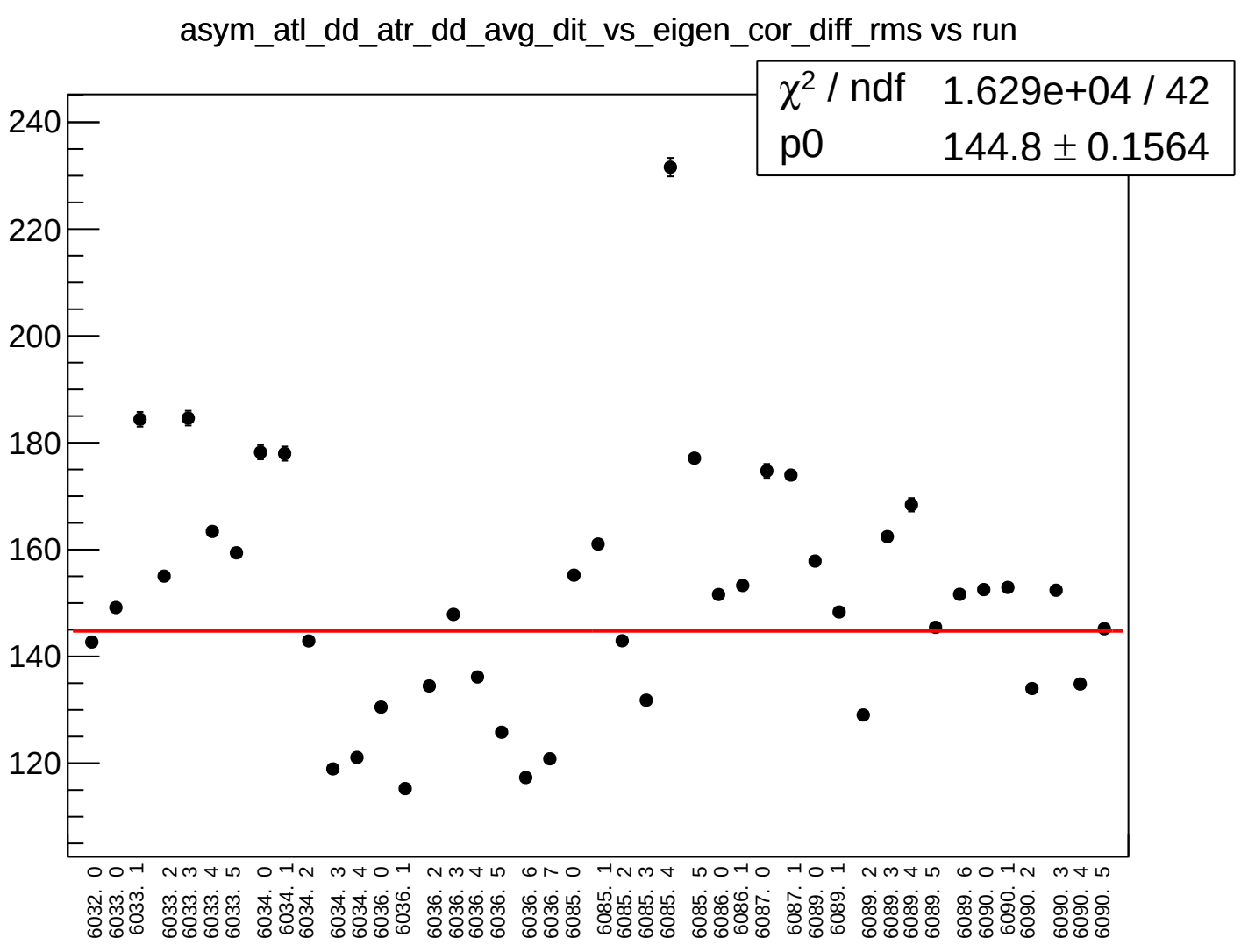

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.16e+05 / 42
p0 1.084e−10 ± 2.139e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

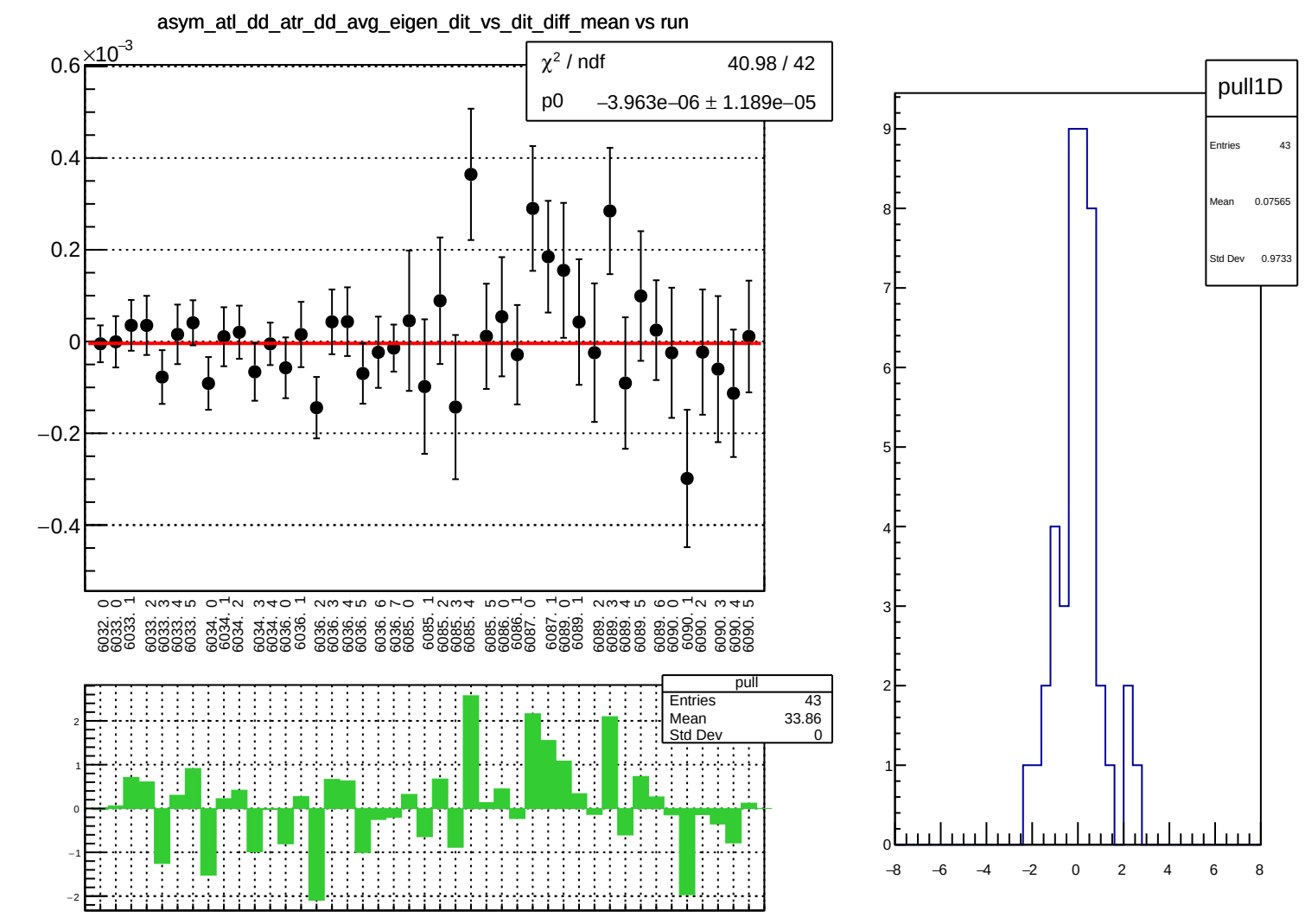

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.7
Std Dev 0

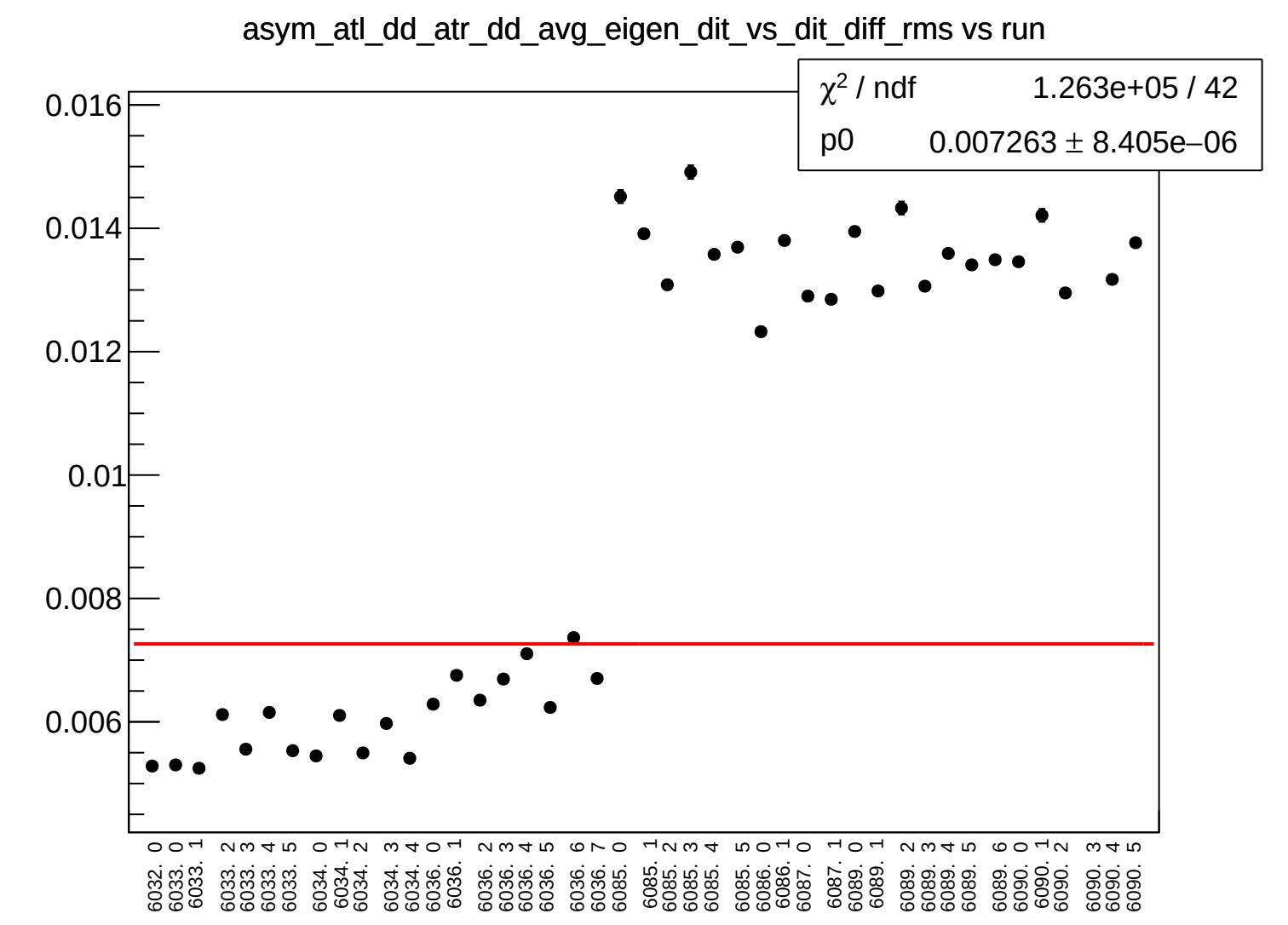

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277

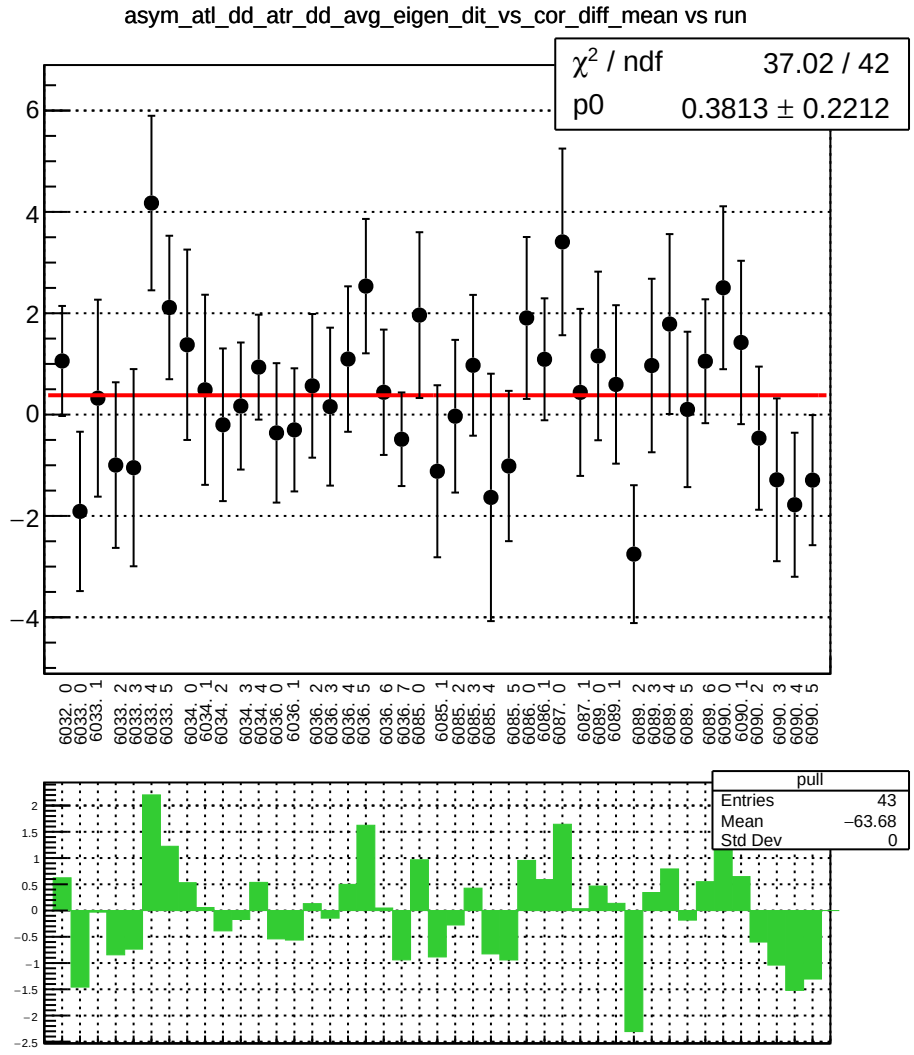

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

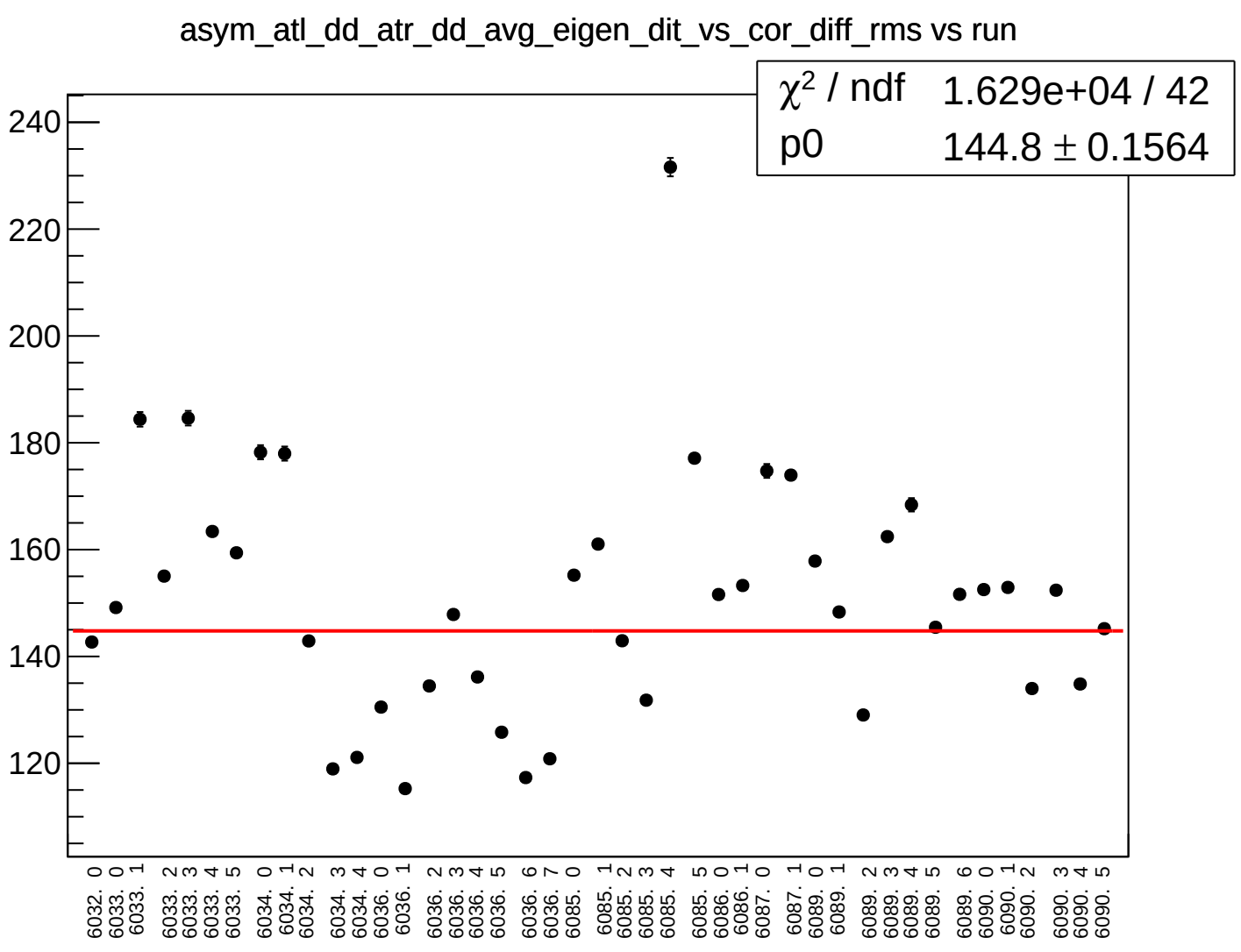

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

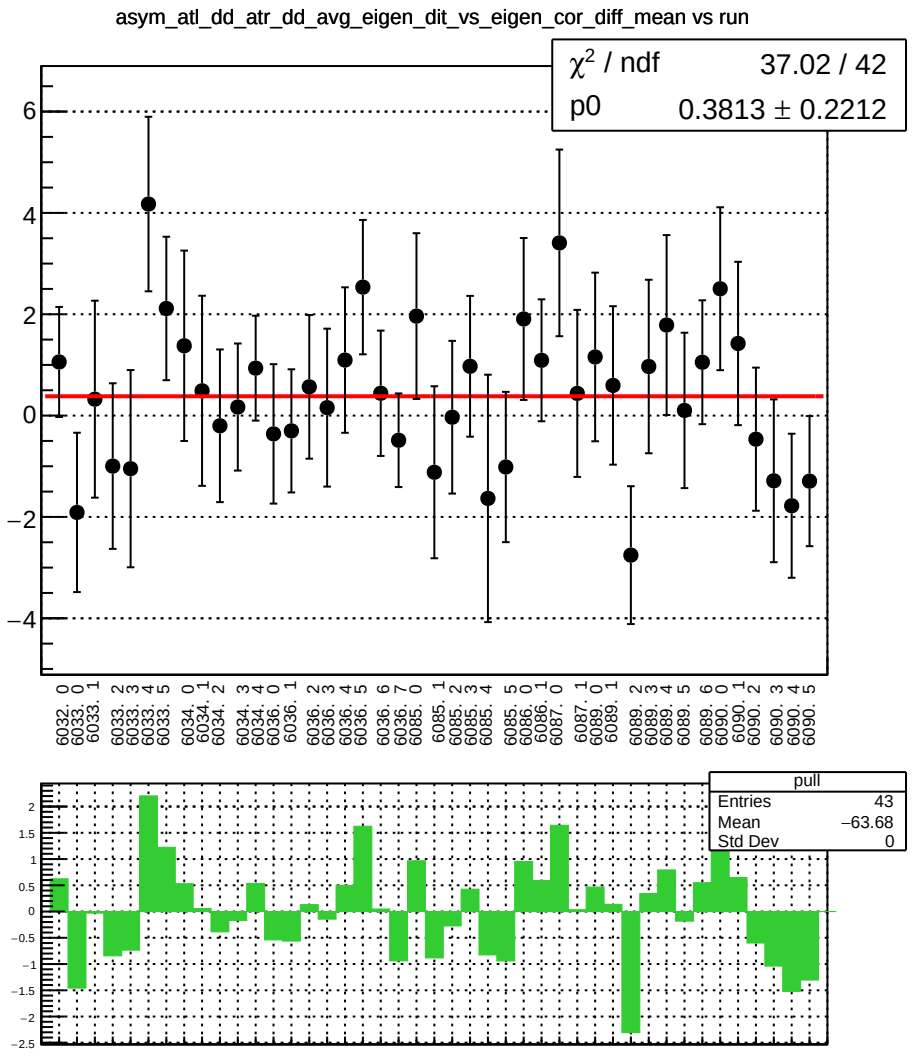

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

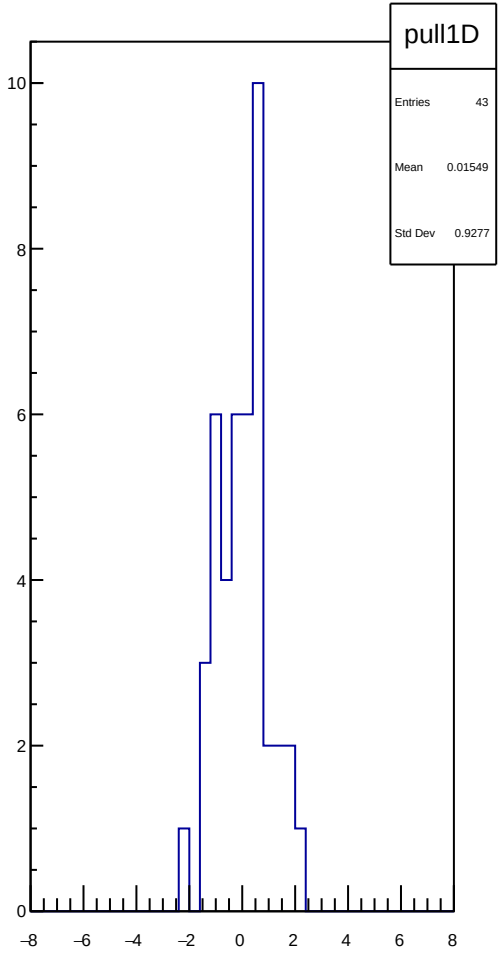

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.98 / 42
p0 −3.963e−06 ± 1.189e−05
pull
Entries 43
Mean 33.86
Std Dev 0
pull1D
Entries 43
Mean 0.07565
Std Dev 0.9733

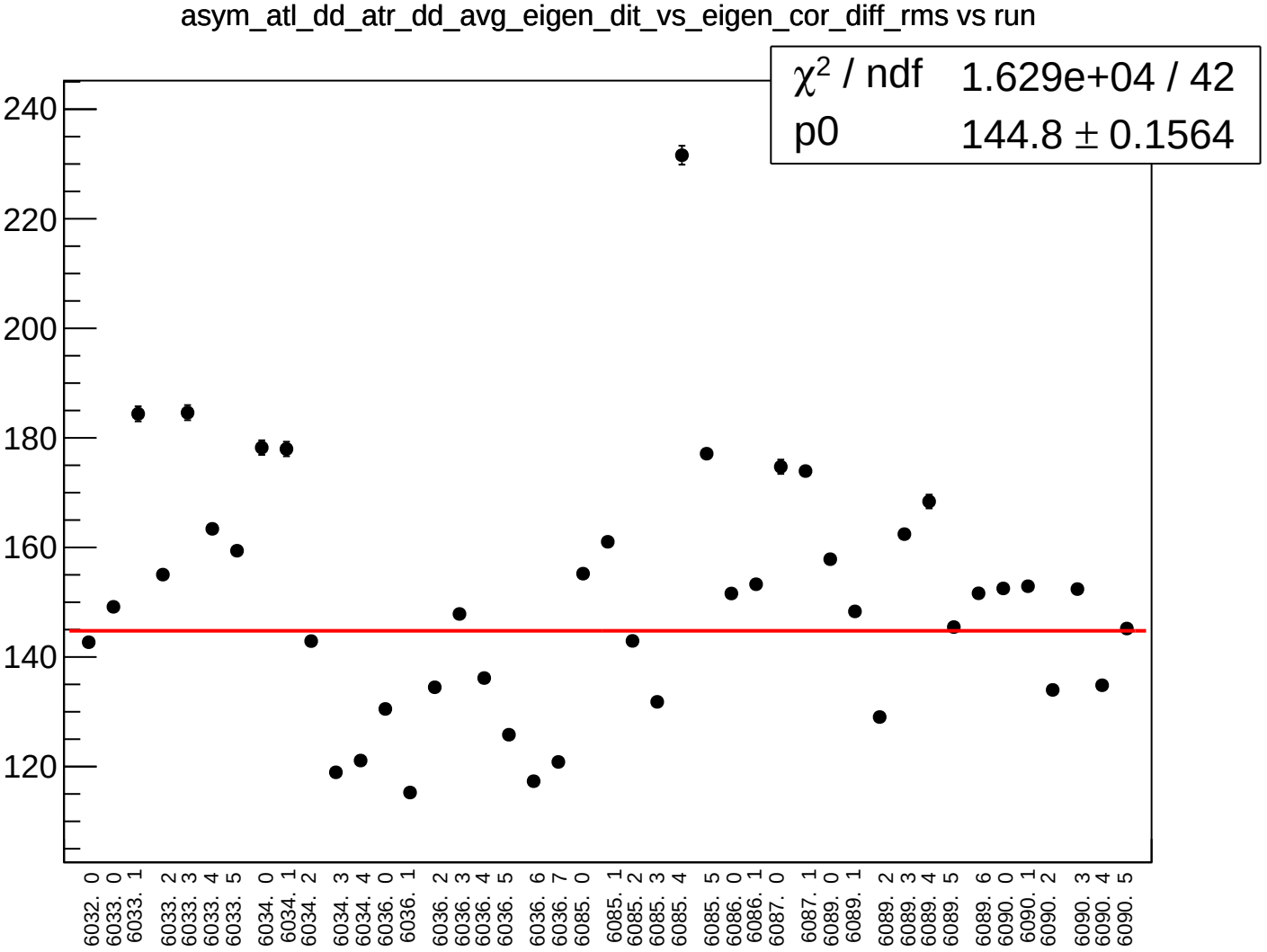

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.263e+05 / 42
p0 0.007263 ± 8.405e−06
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

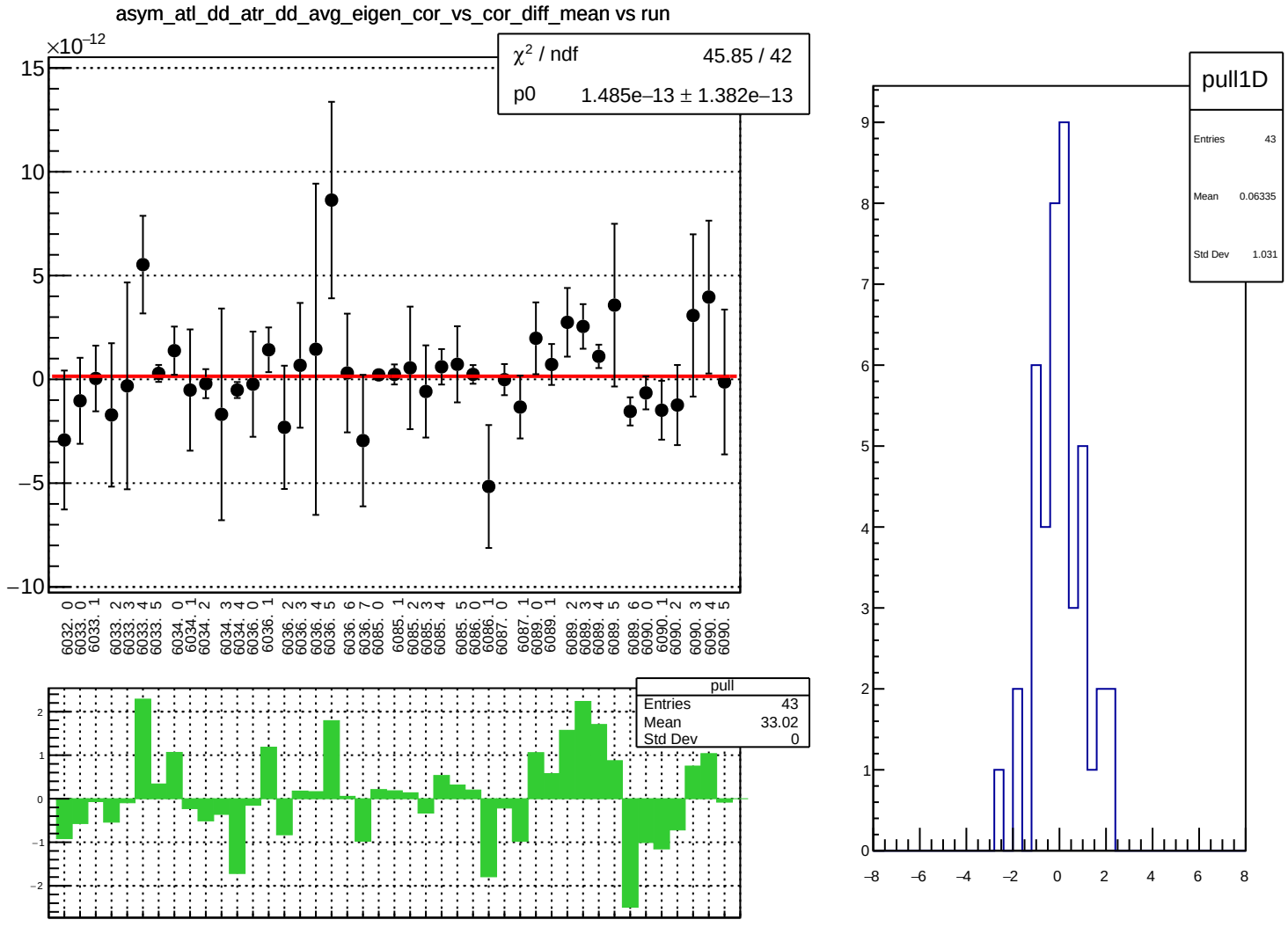

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

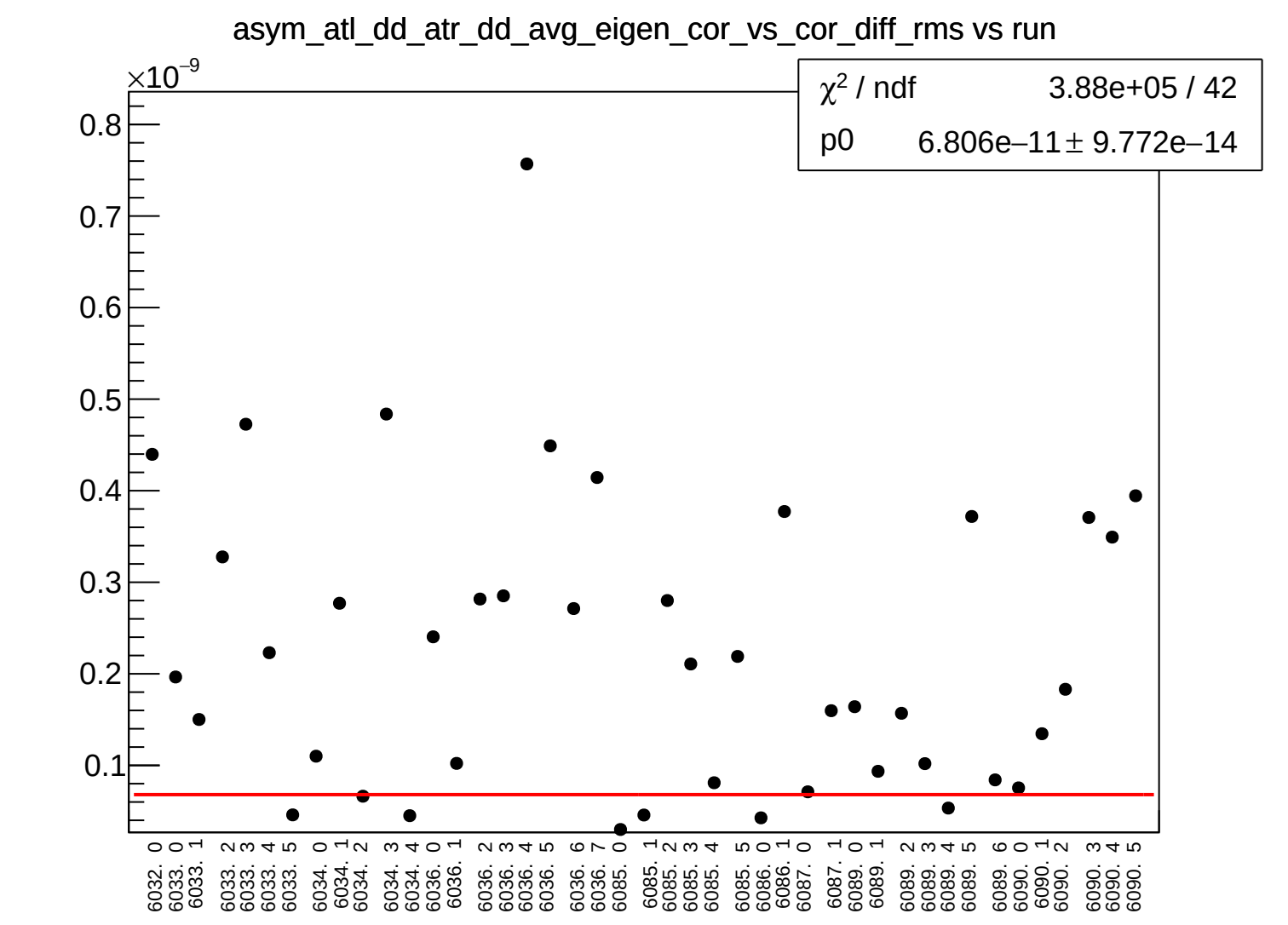

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

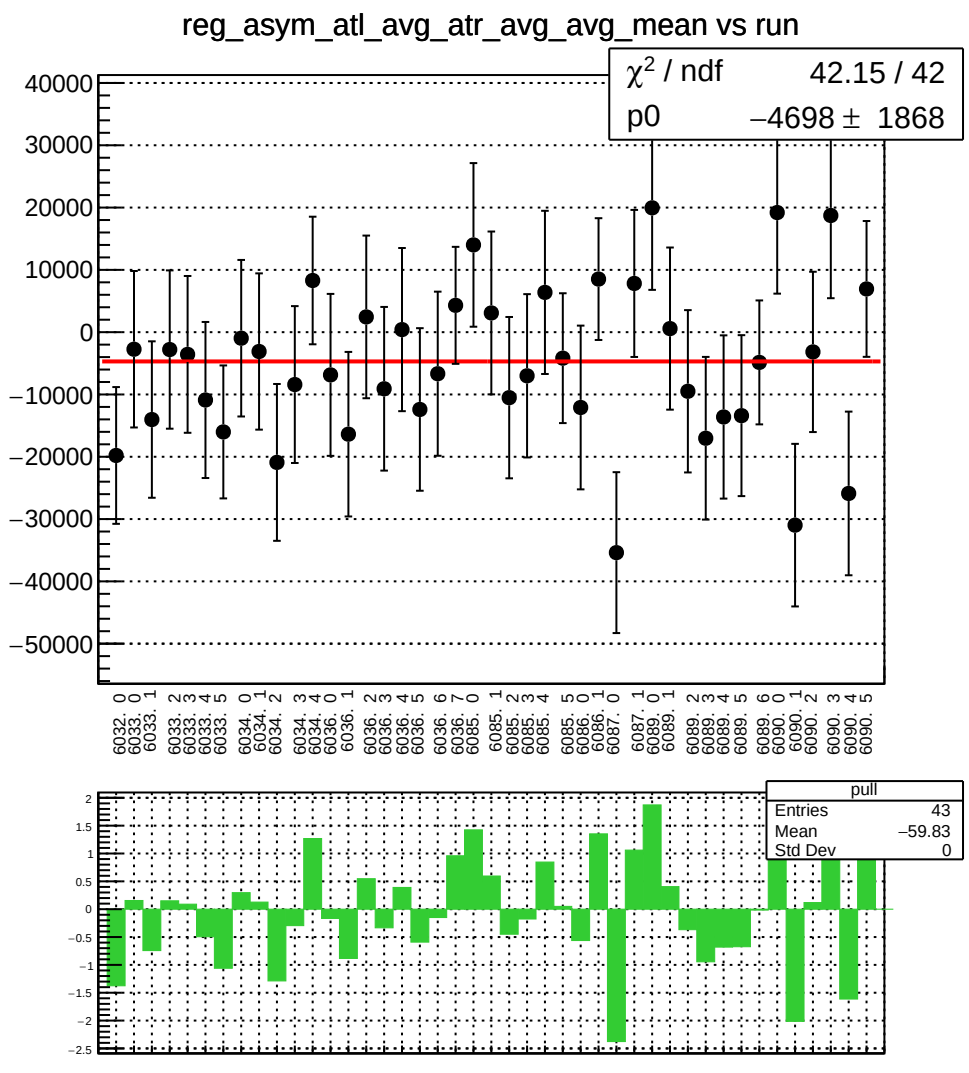

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

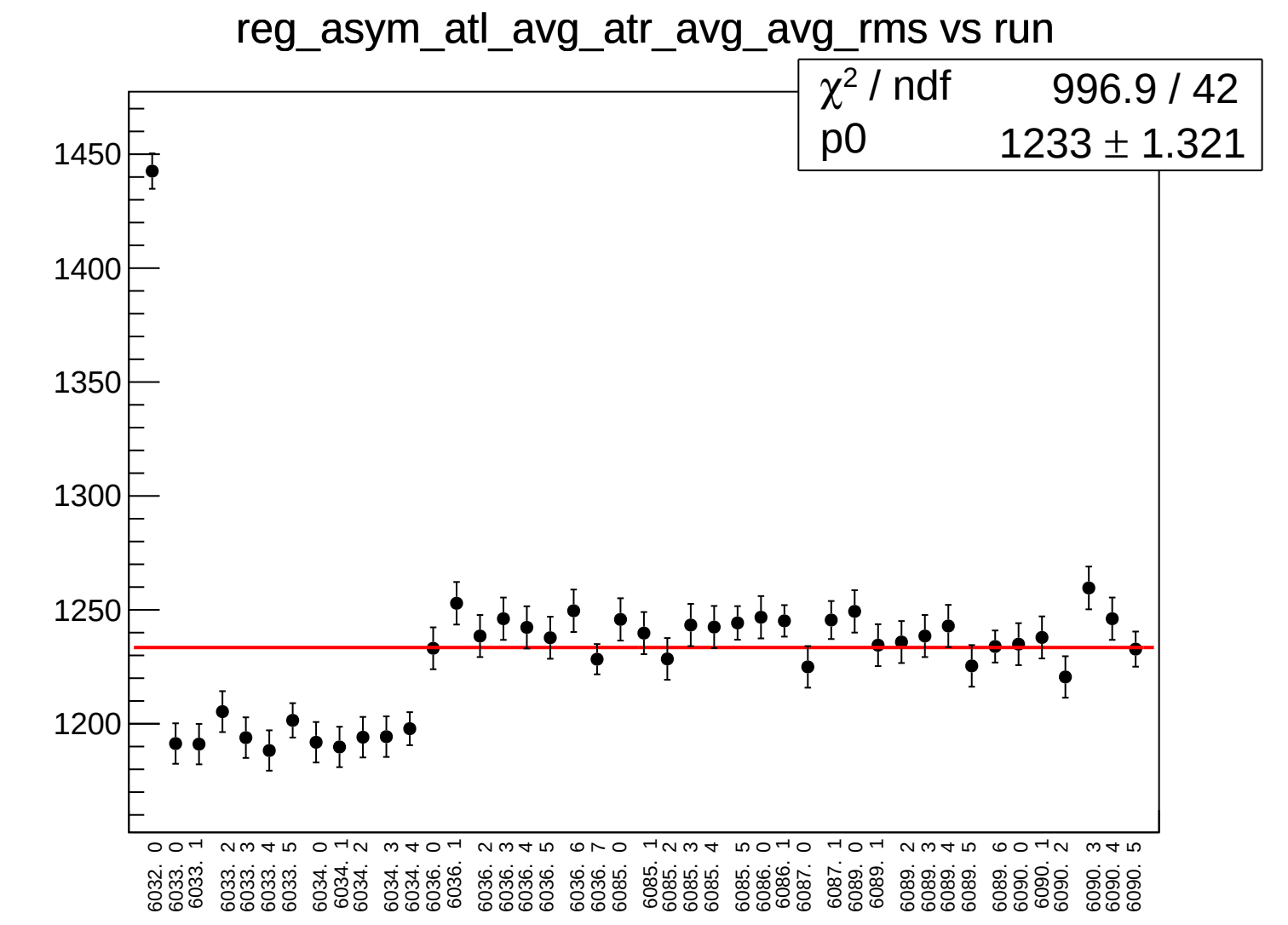

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

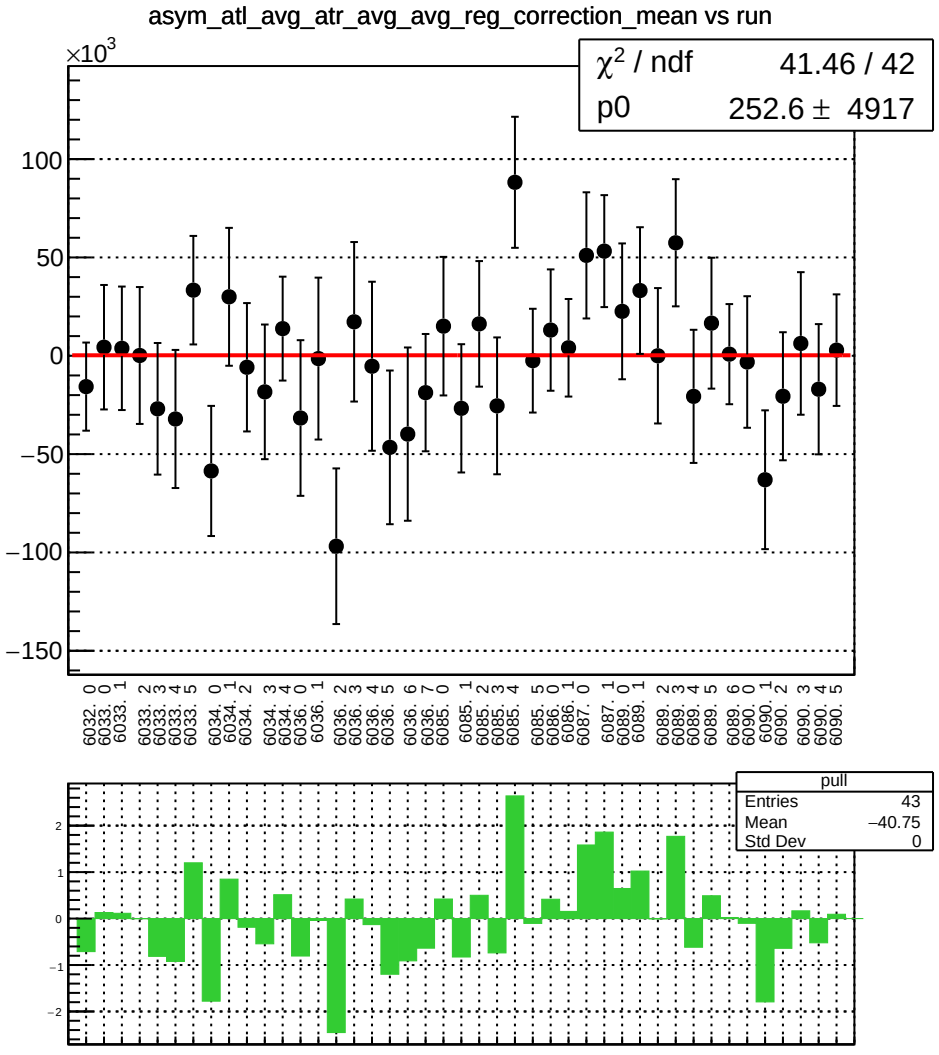

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

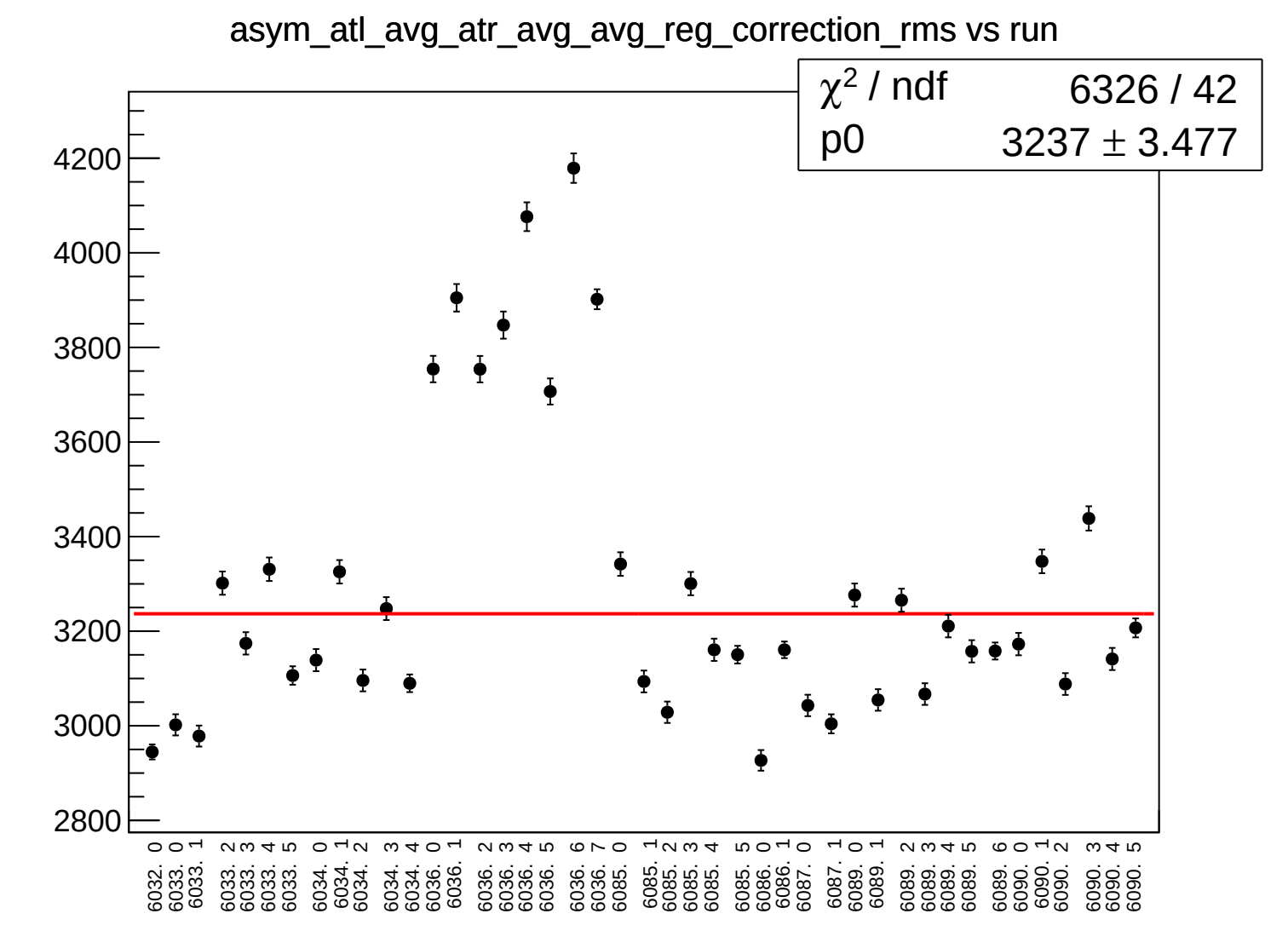

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.85 / 42
p0 1.485e−13 ± 1.382e−13
pull
Entries 43
Mean 33.02
Std Dev 0
pull1D
Entries 43
Mean 0.06335
Std Dev 1.031

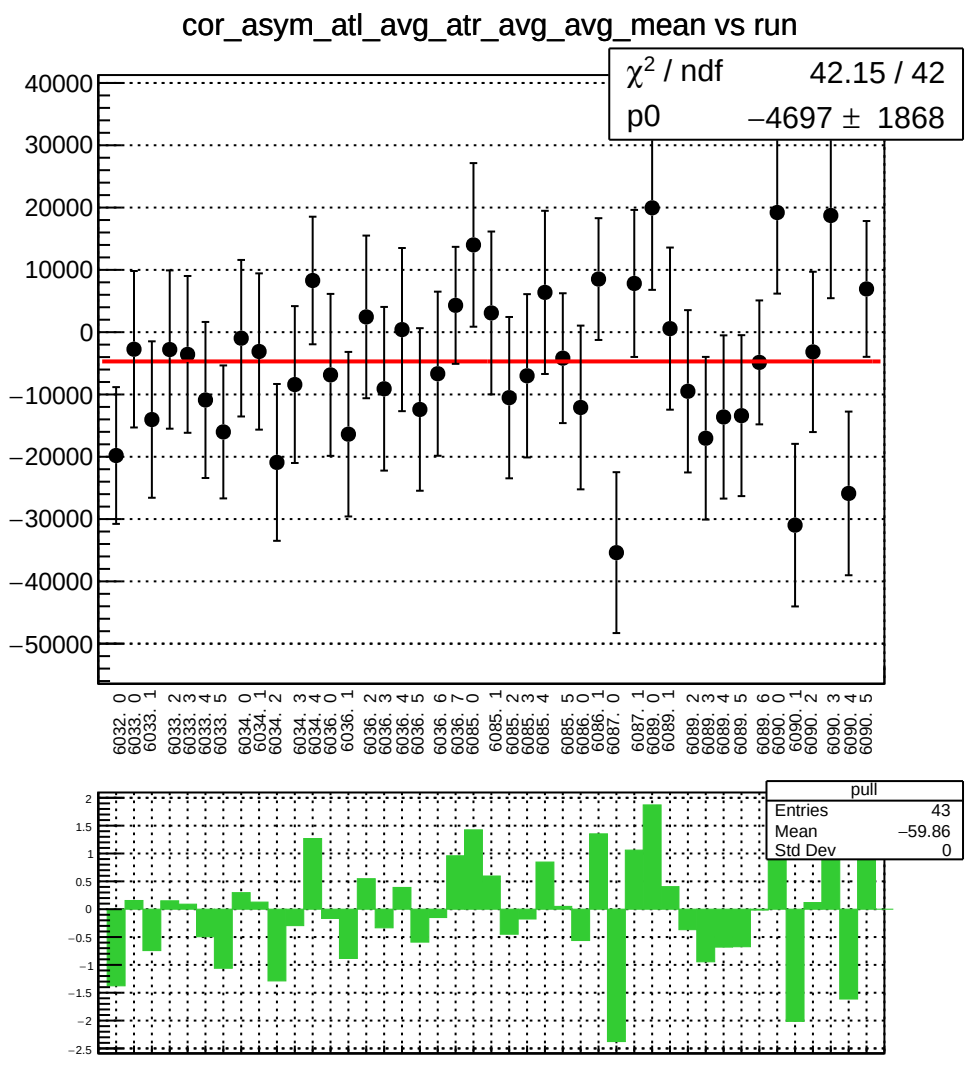

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.88e+05 / 42
p0 6.806e−11 ± 9.772e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

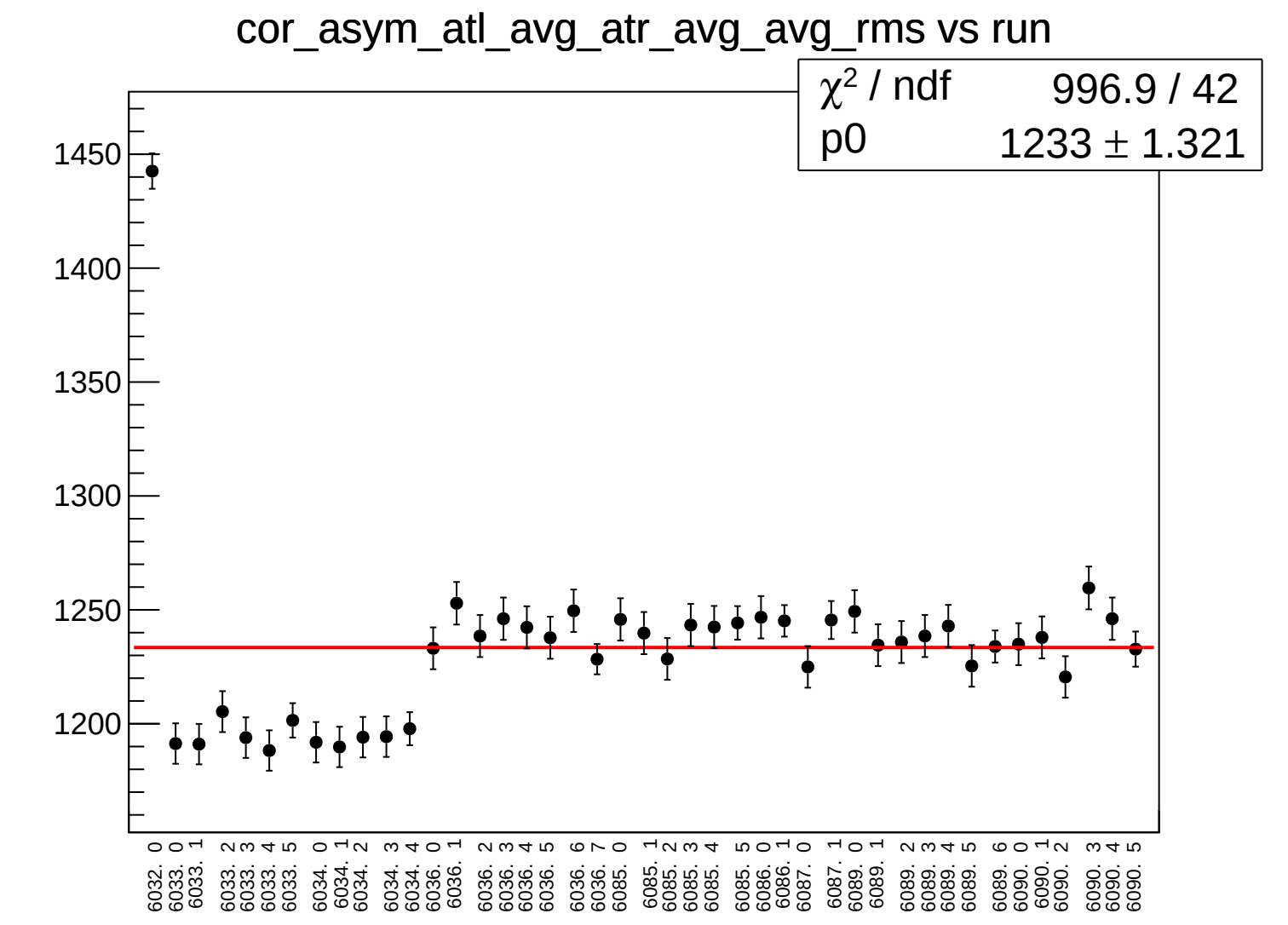

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 42.15 / 42
p0 −4698 ± 1868
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −59.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.0203
Std Dev 0.9899
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

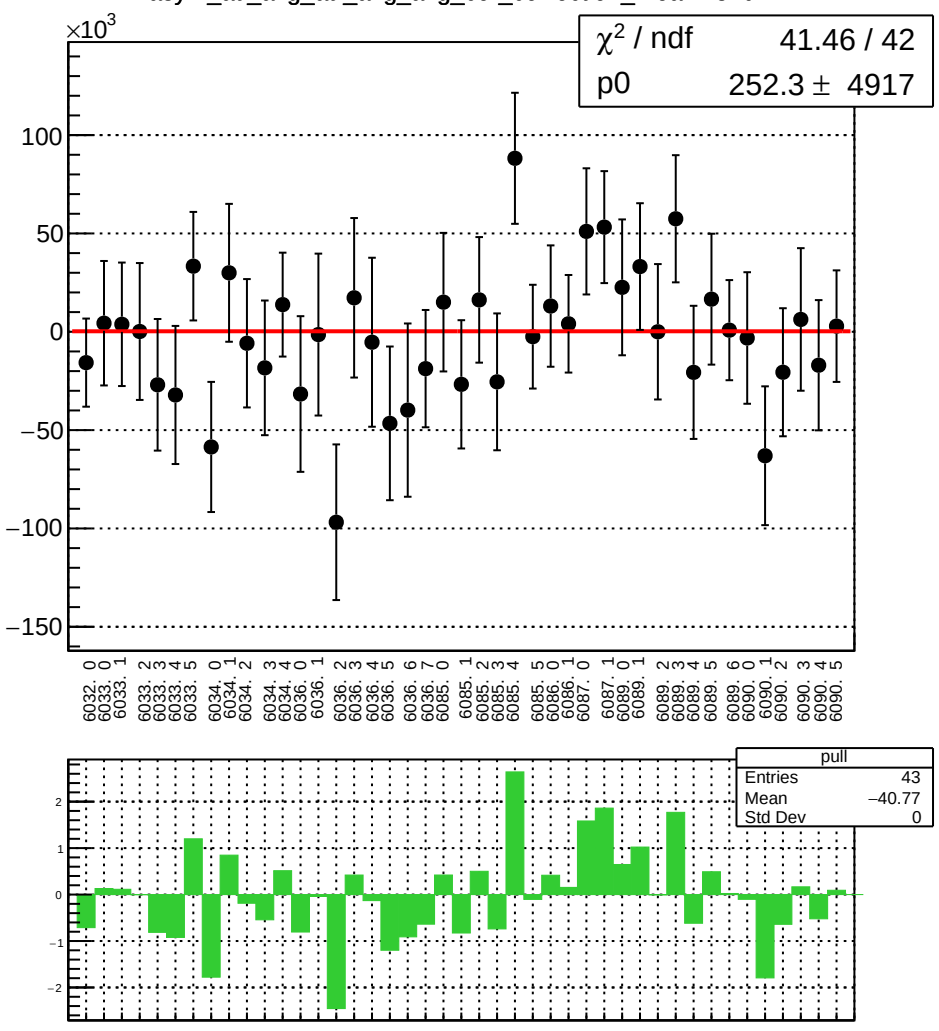

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 996.9 / 42
p0 1233 ± 1.321
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

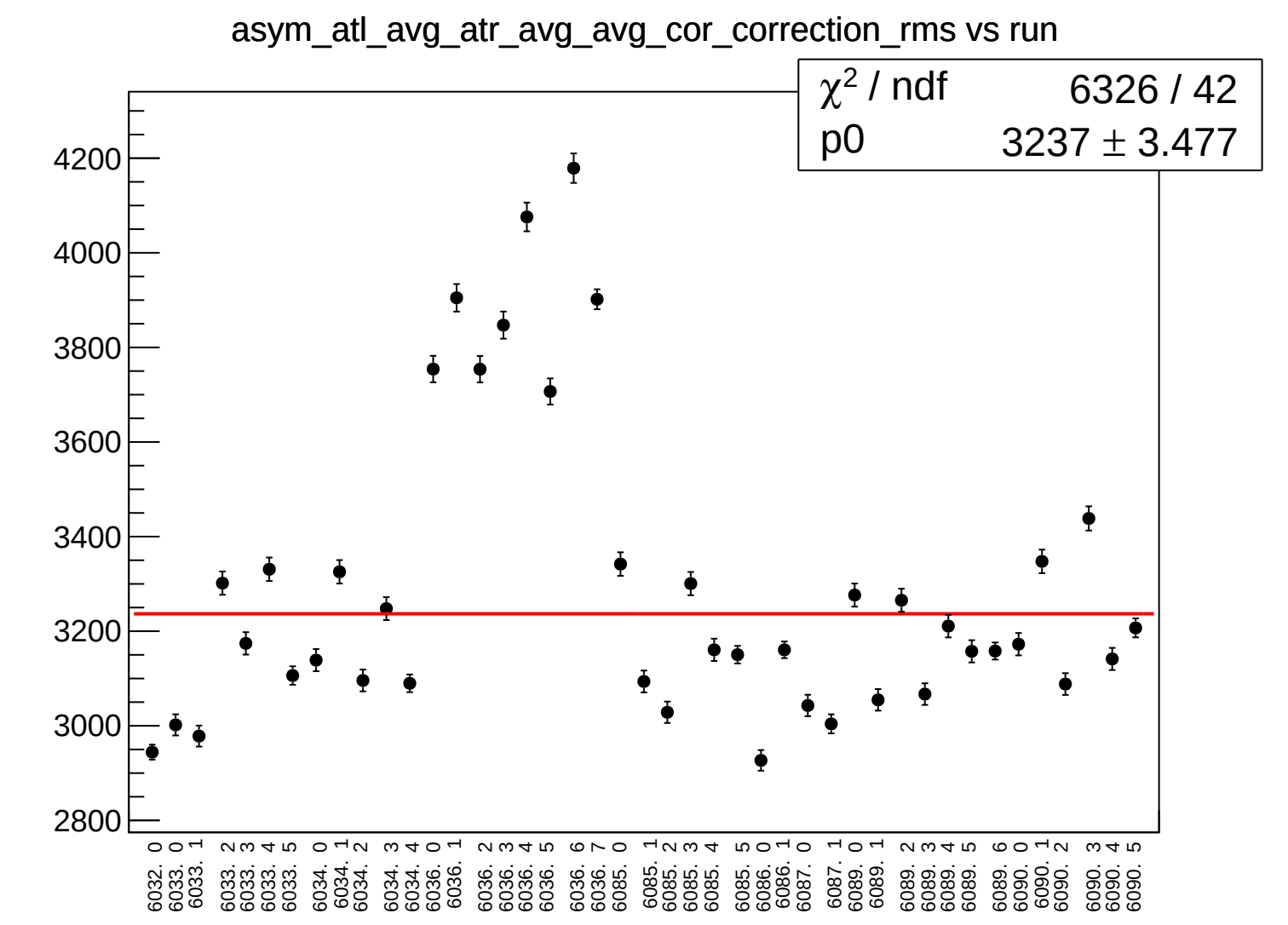

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.46 / 42
p0 252.6 ± 4917
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03435
Std Dev 0.9813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

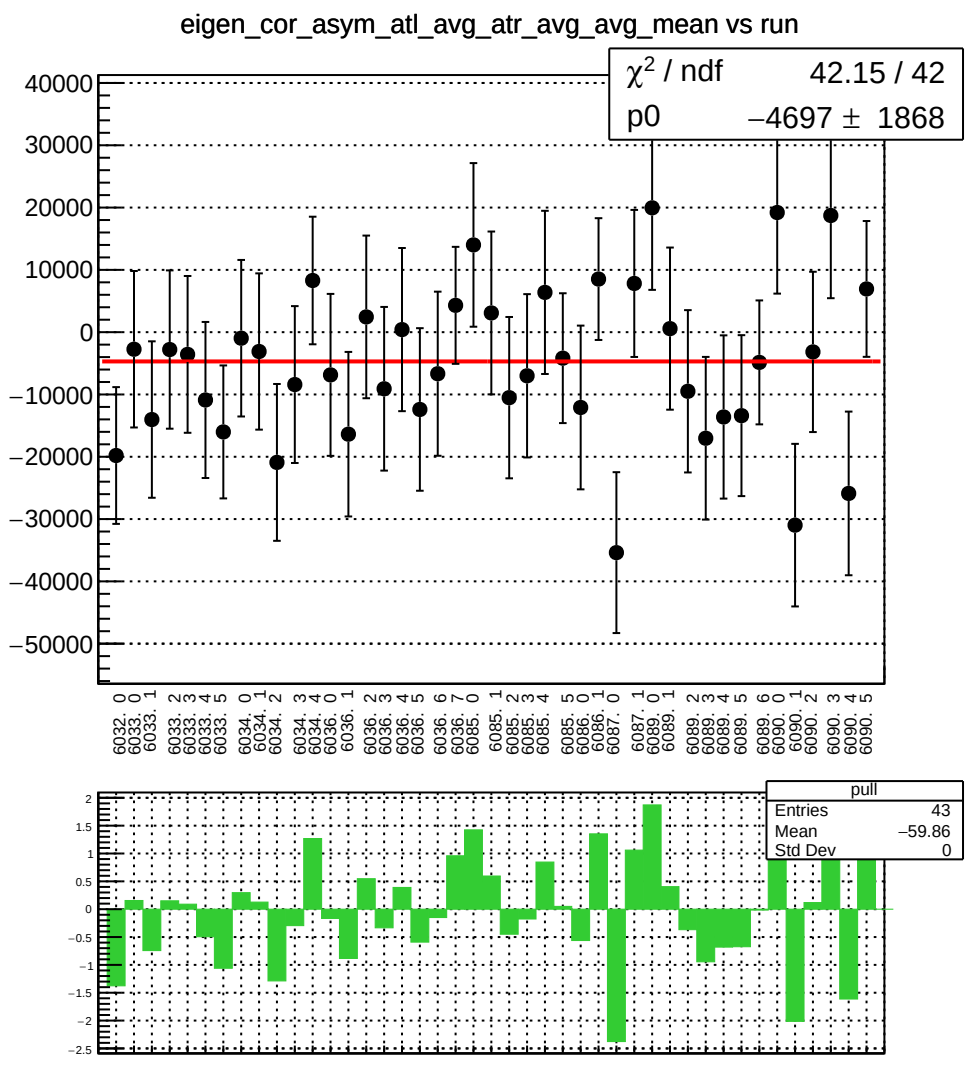

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6326 / 42
p0 3237 ± 3.477
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

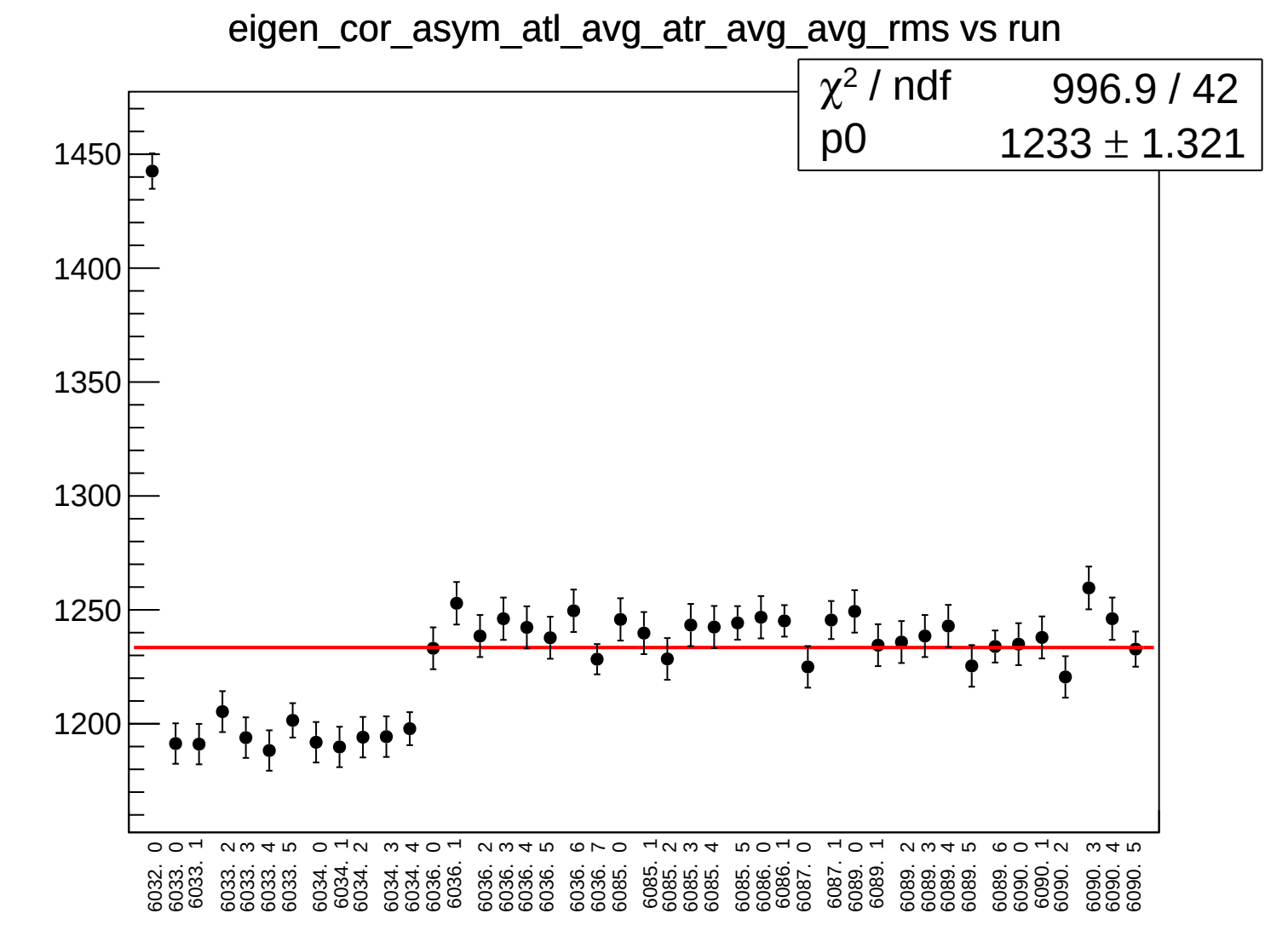

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 42.15 / 42
p0 −4697 ± 1868
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −59.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02029
Std Dev 0.9899
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

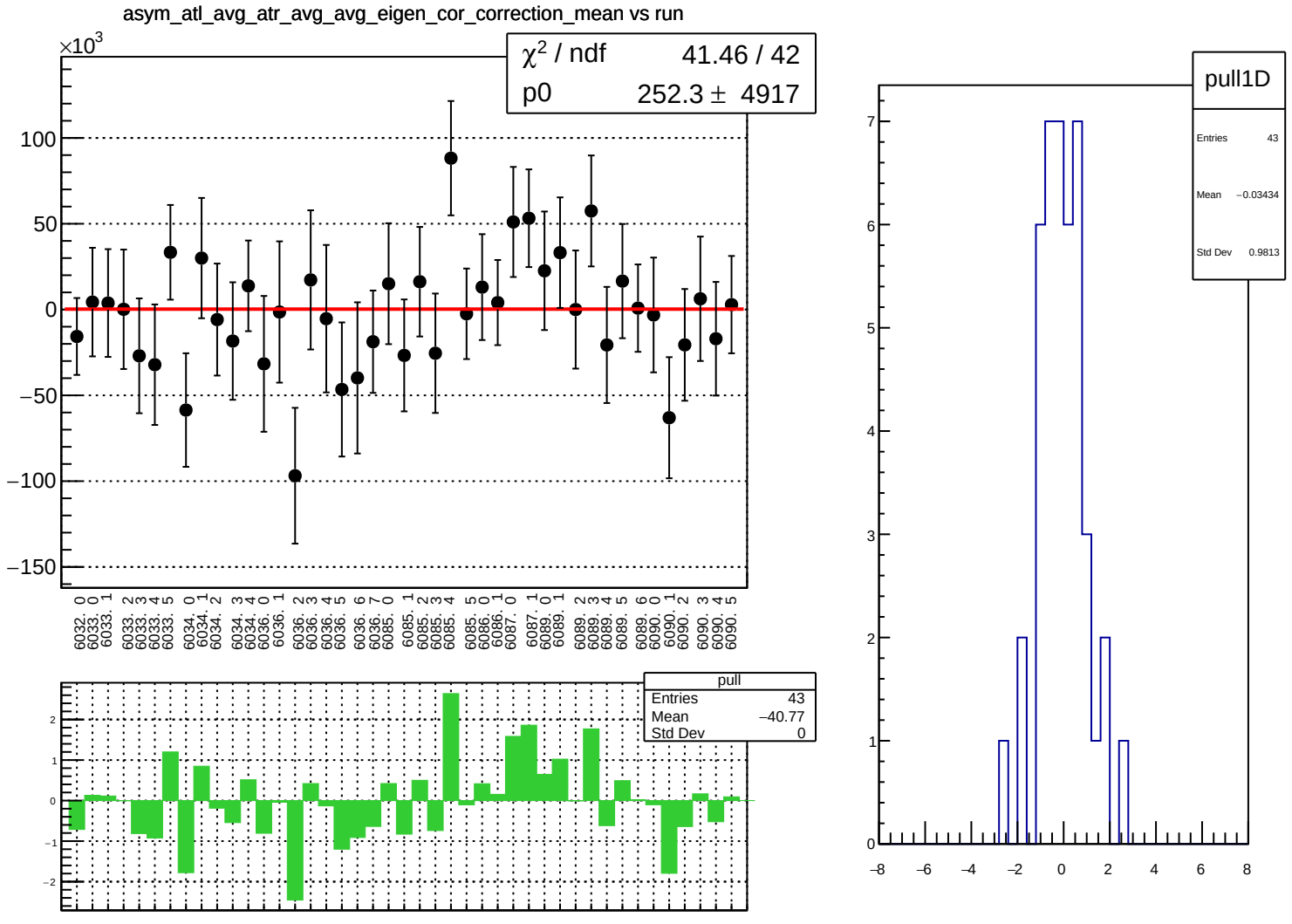

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 996.9 / 42
p0 1233 ± 1.321
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

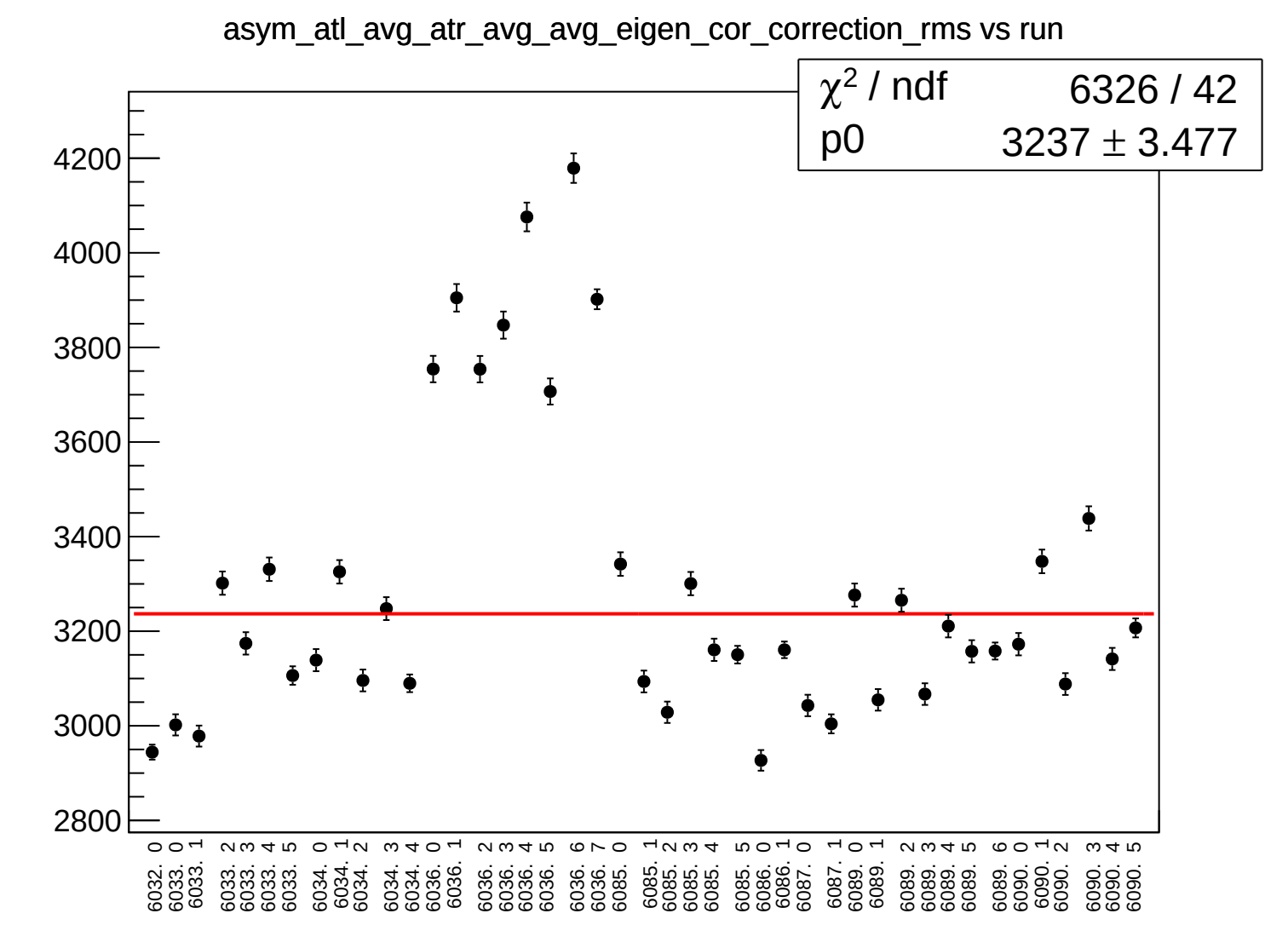

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.46 / 42
p0 252.3 ± 4917
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03434
Std Dev 0.9813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

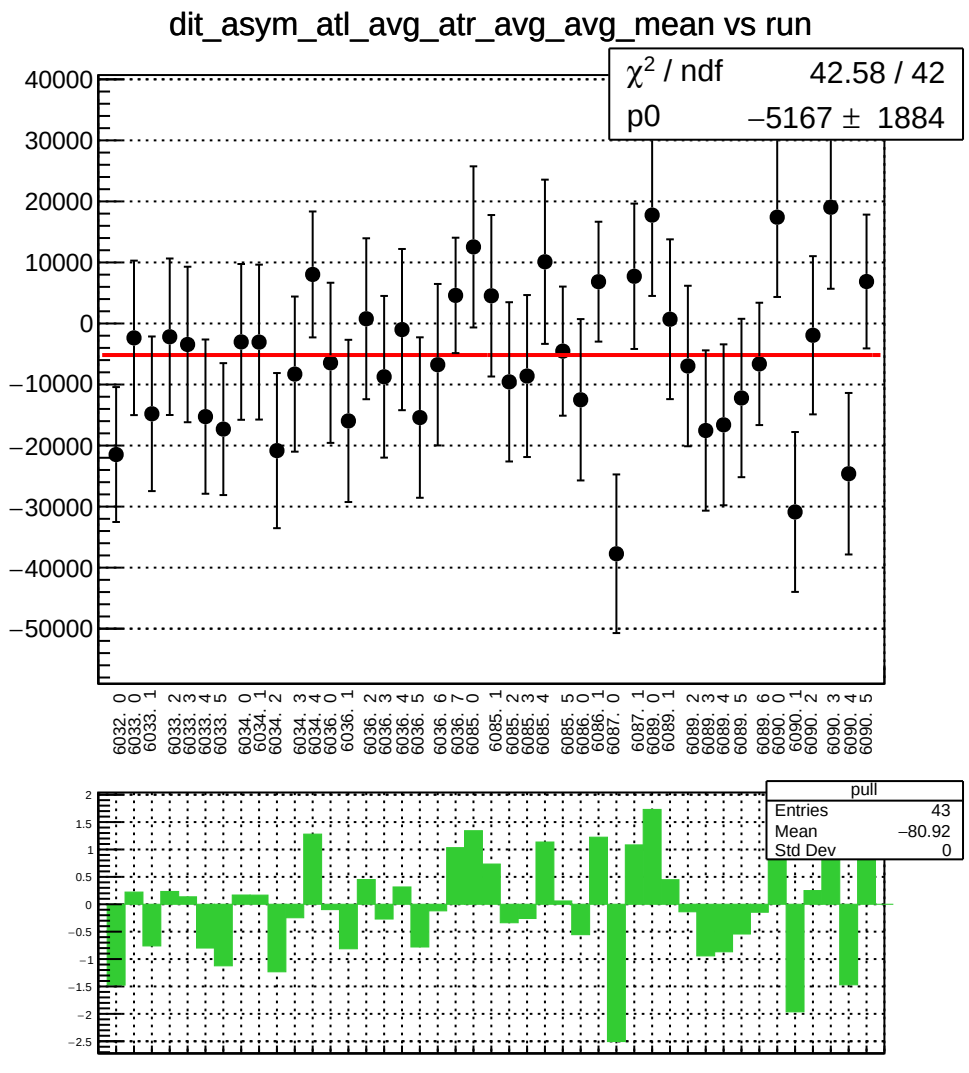

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6326 / 42
p0 3237 ± 3.477
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

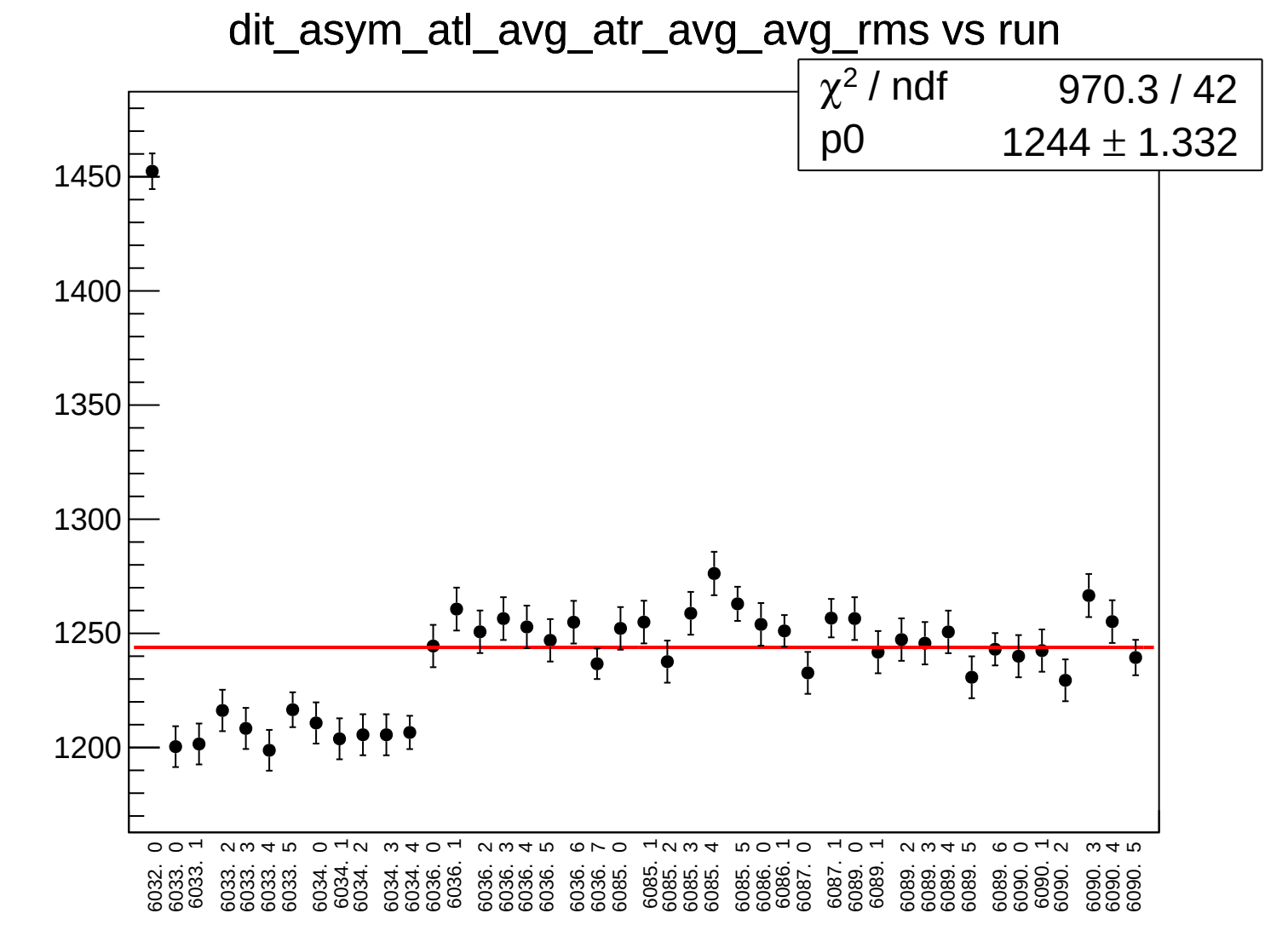

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 42.15 / 42
p0 −4697 ± 1868
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −59.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02029
Std Dev 0.9899
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

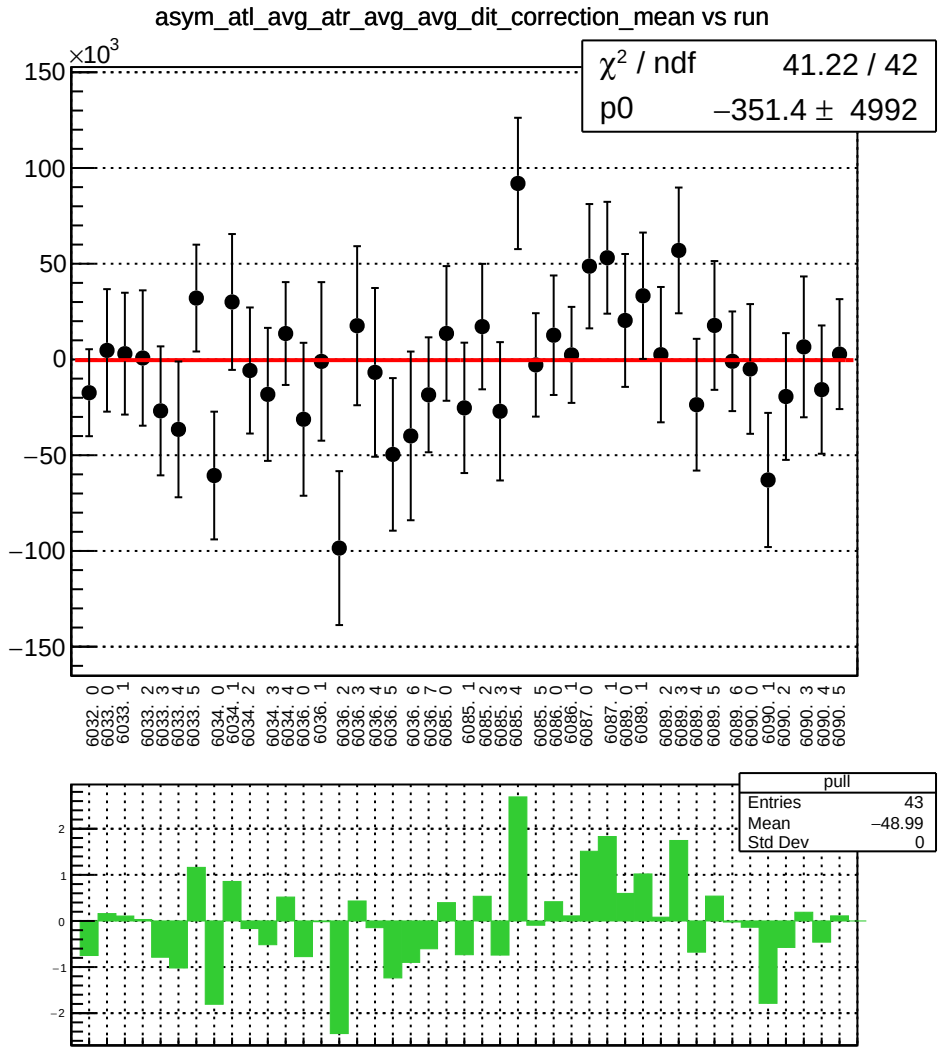

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 996.9 / 42
p0 1233 ± 1.321
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

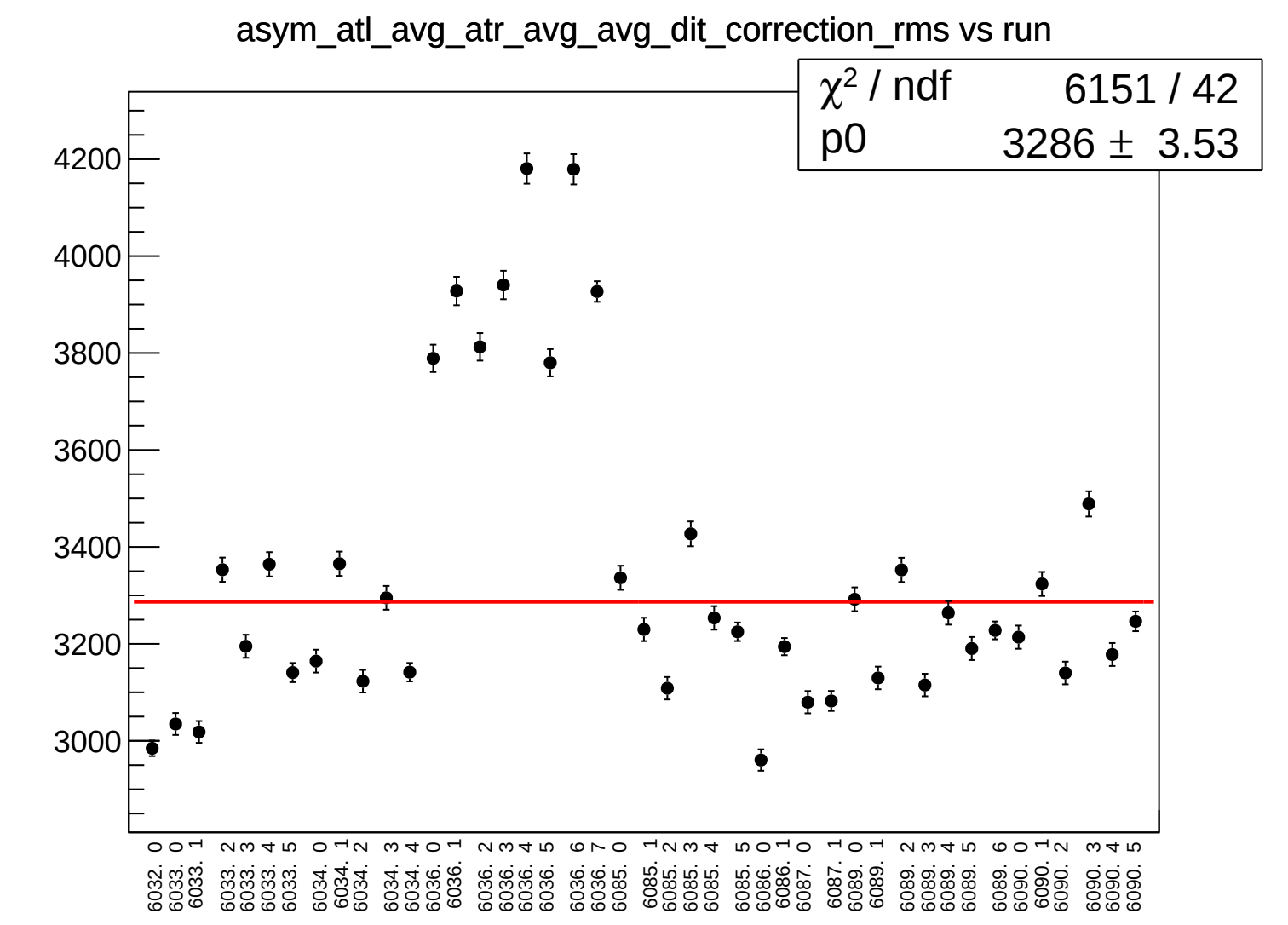

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.46 / 42
p0 252.3 ± 4917
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03434
Std Dev 0.9813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

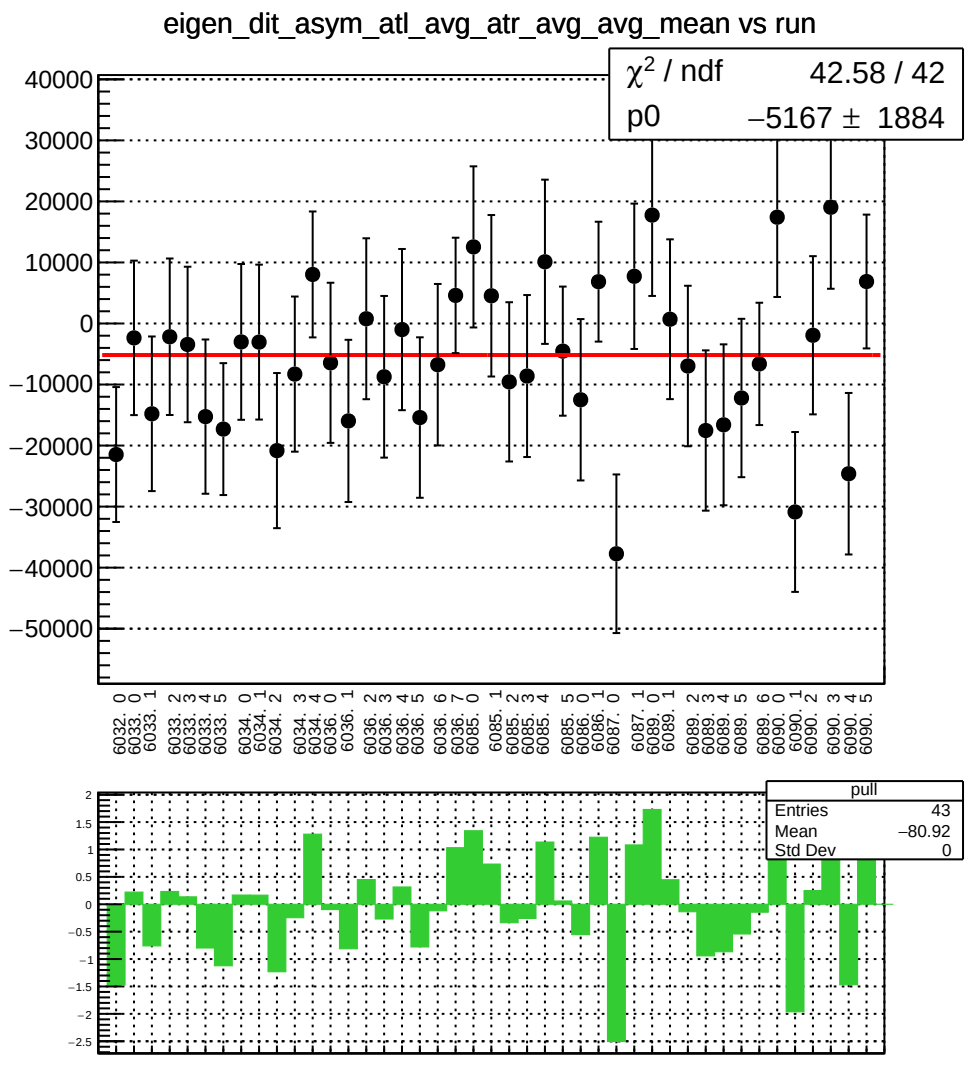

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6326 / 42
p0 3237 ± 3.477
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

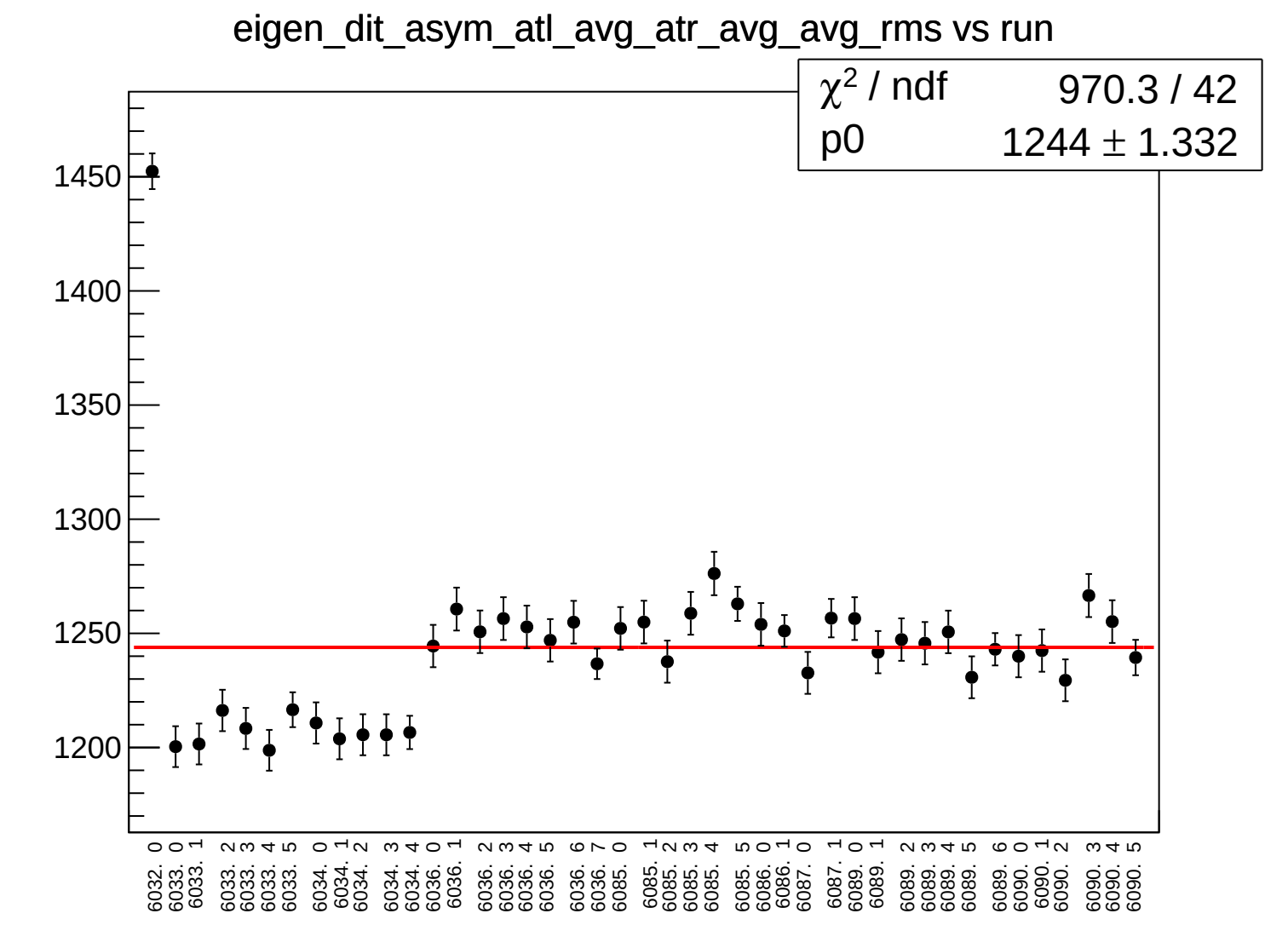

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 42.58 / 42
p0 −5167 ± 1884
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −80.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.0182
Std Dev 0.9949
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

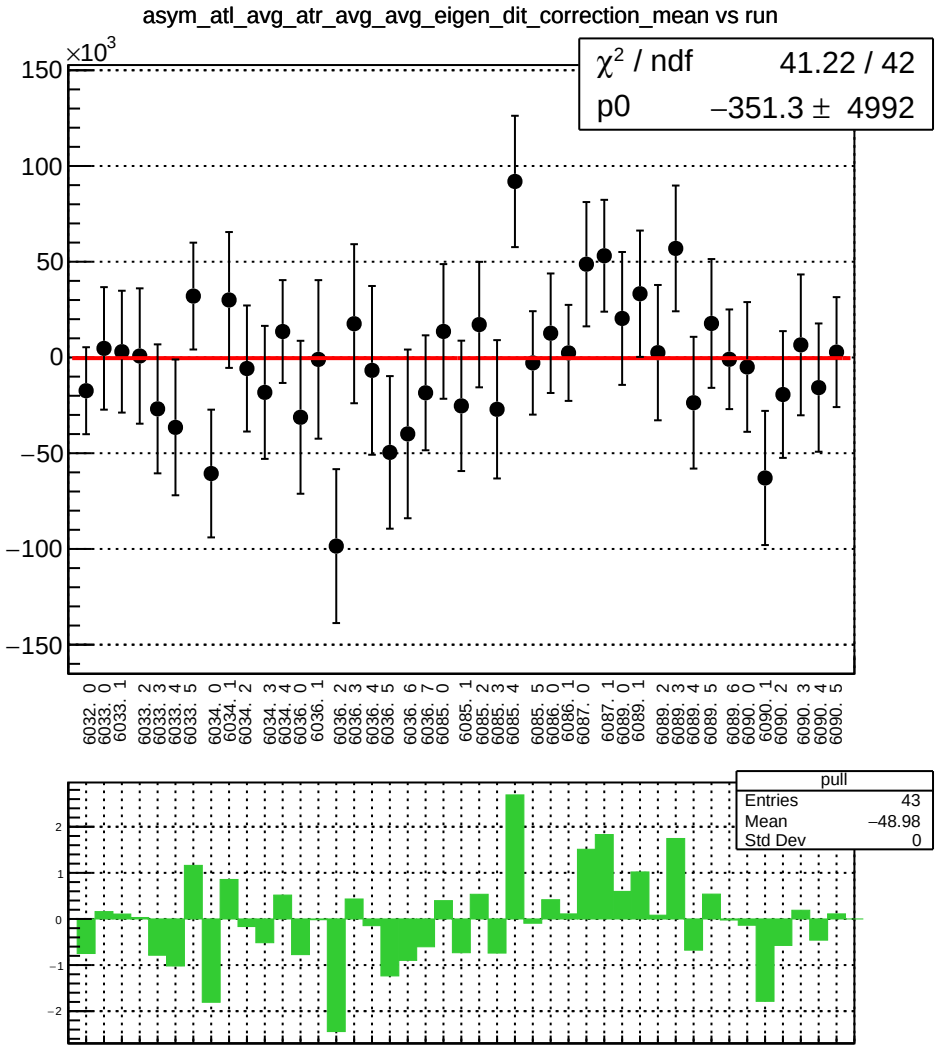

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 970.3 / 42
p0 1244 ± 1.332
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

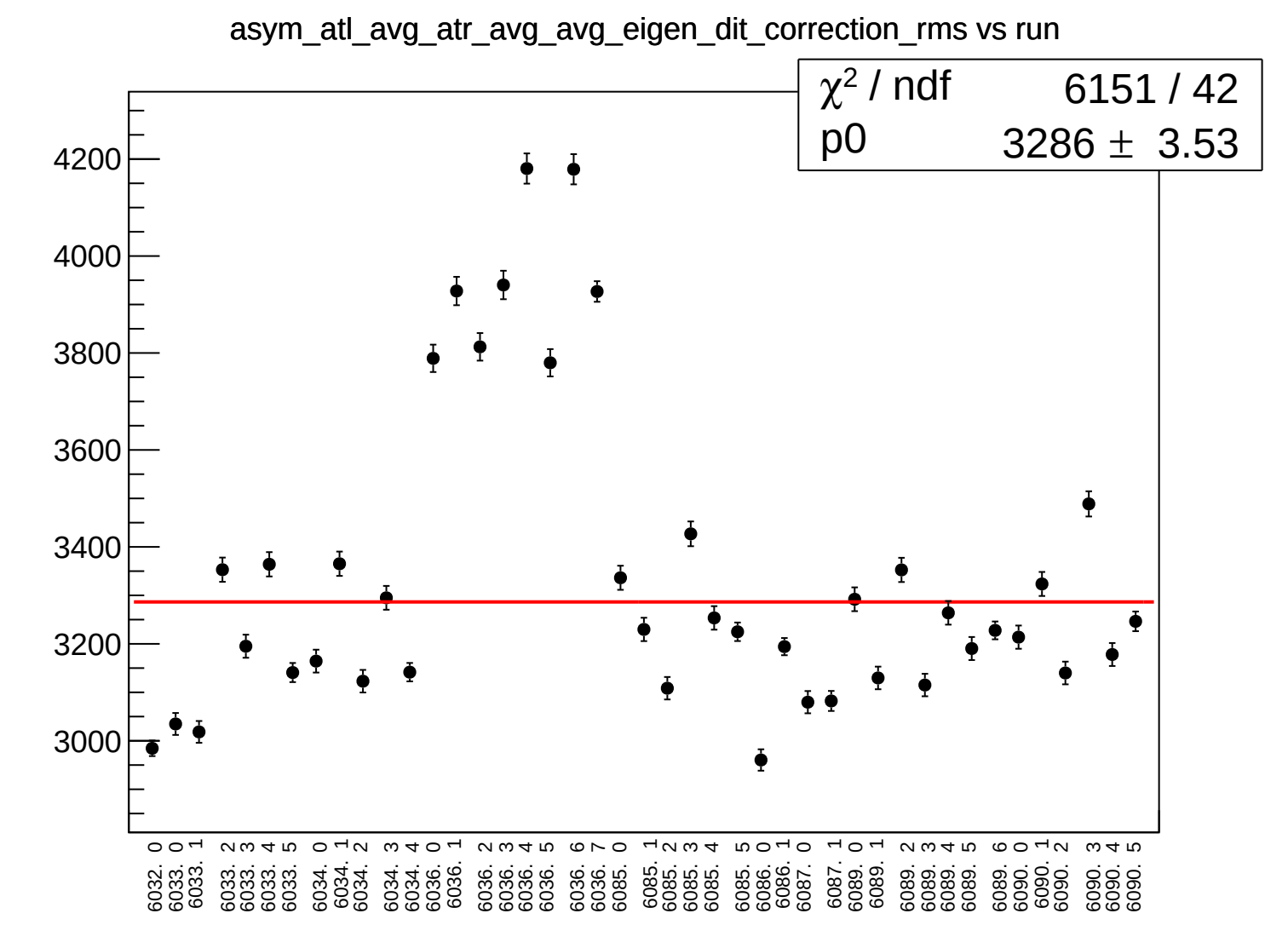

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 42
p0 −351.4 ± 4992
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −48.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.031
Std Dev 0.9786
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

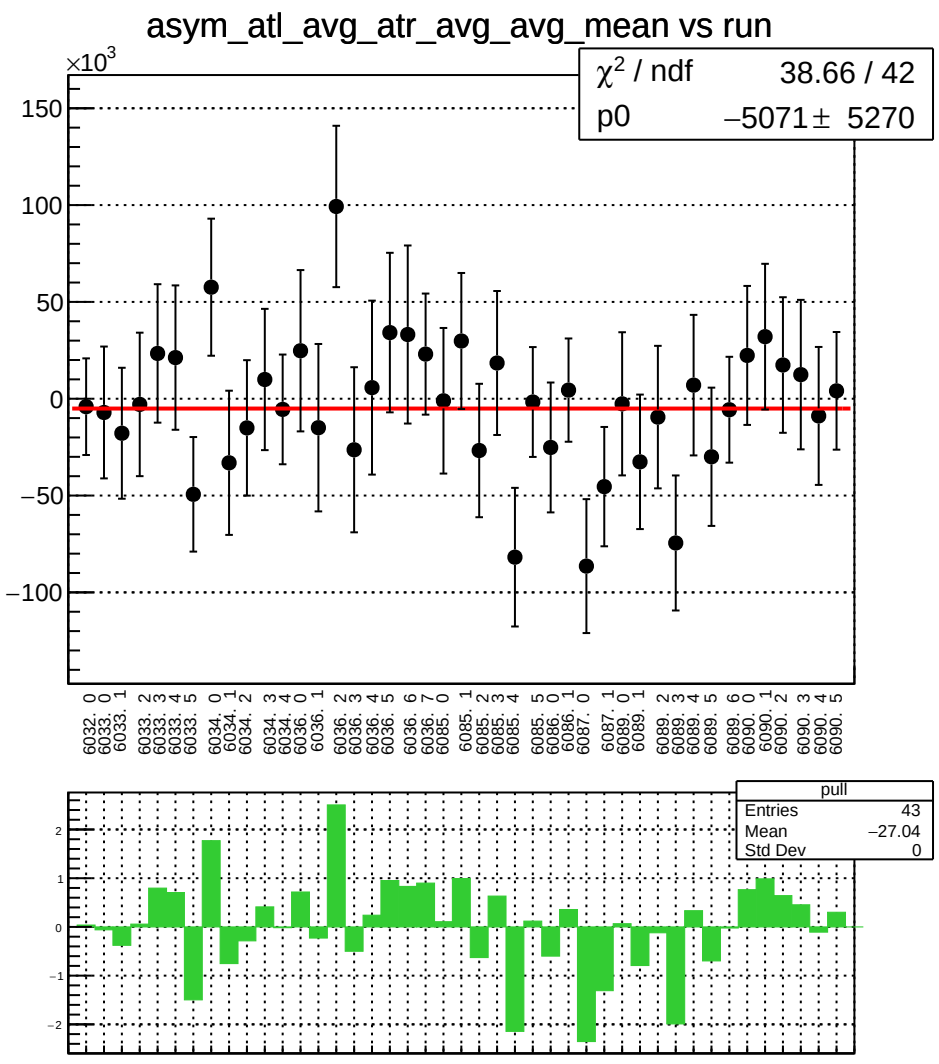

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 6151 / 42
p0 3286 ± 3.53
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

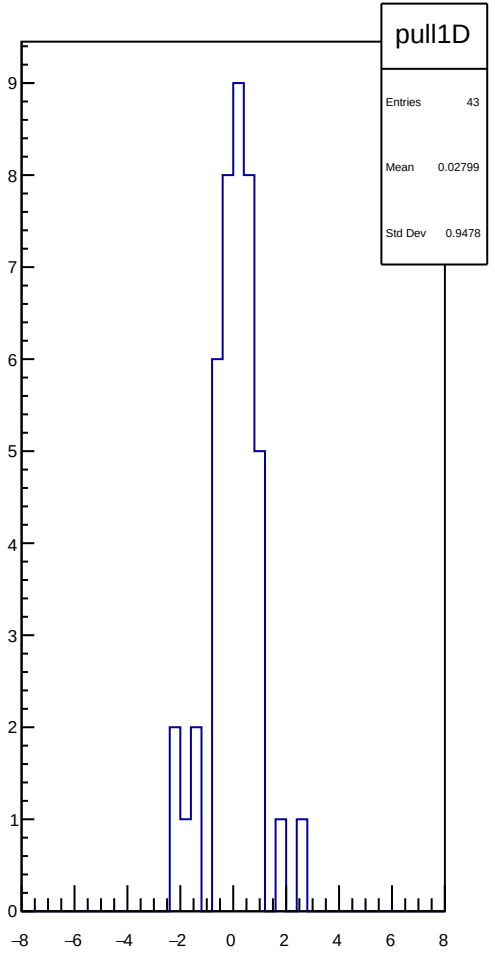

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 42.58 / 42
p0 −5167 ± 1884
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −80.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.0182
Std Dev 0.9949
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

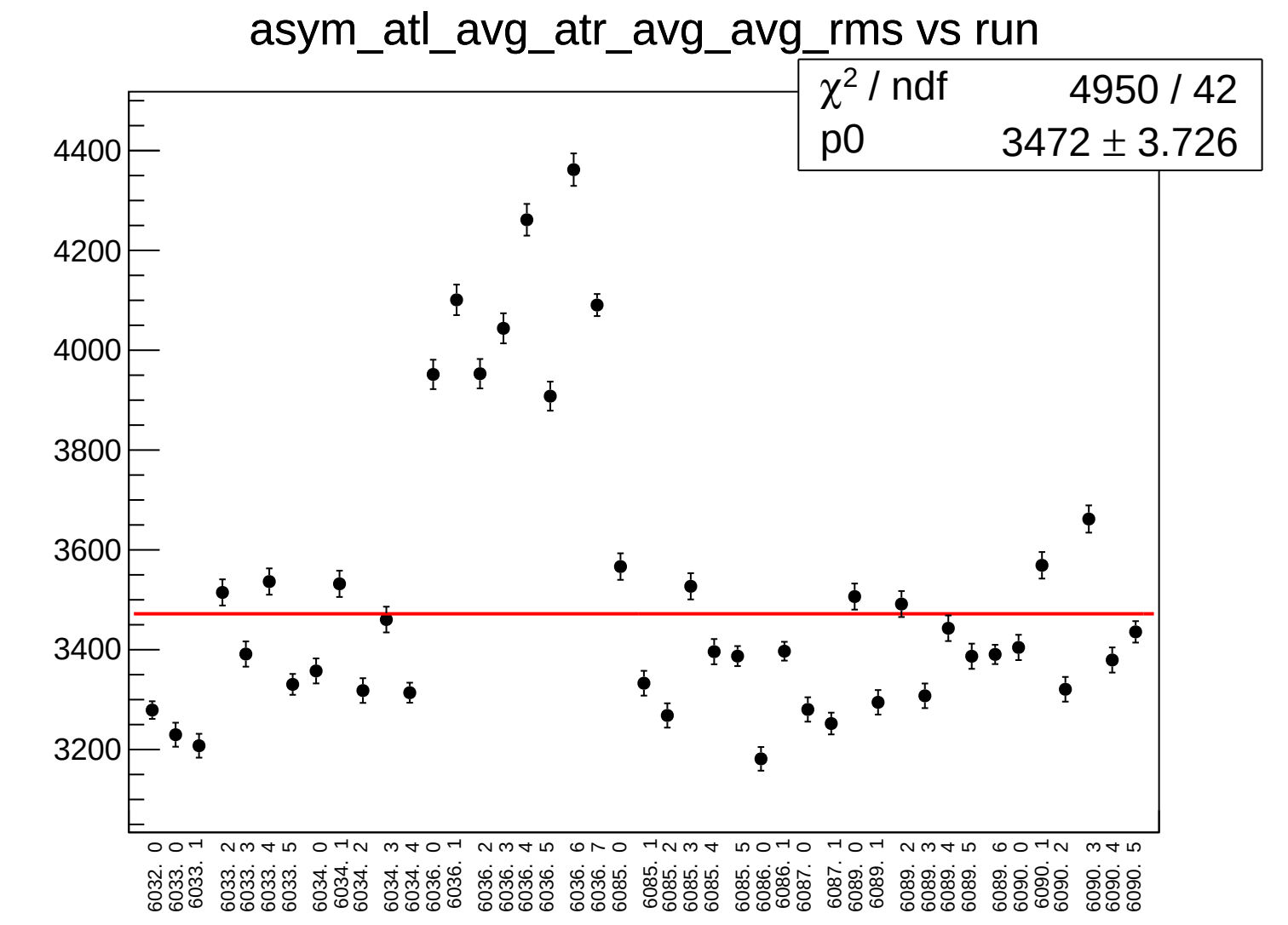

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 970.3 / 42
p0 1244 ± 1.332
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

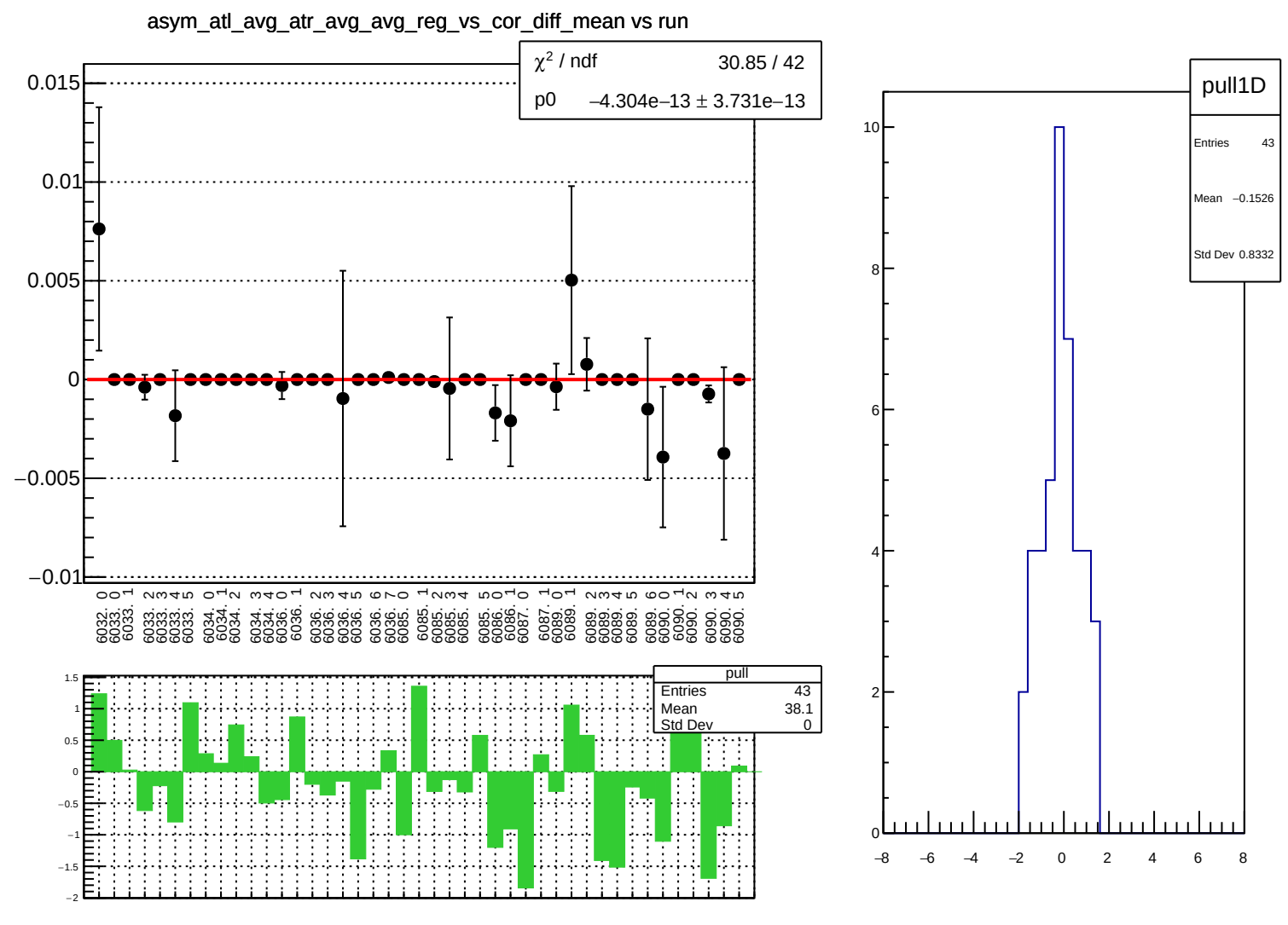

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.22 / 42
p0 −351.3 ± 4992
150
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −48.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.031
Std Dev 0.9786
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

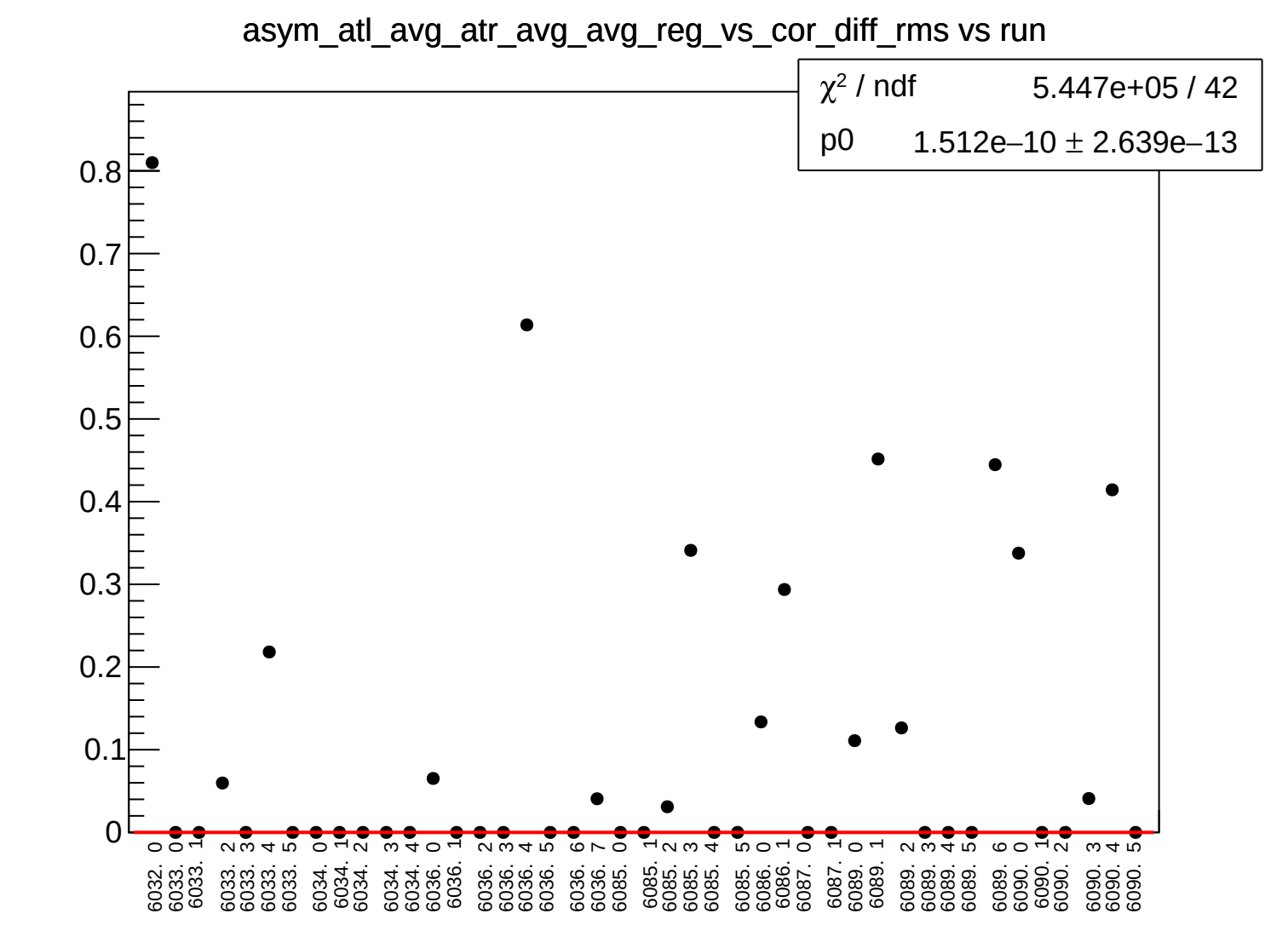

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6151 / 42
p0 3286 ± 3.53
4200
4000
3800
3600
3400
3200
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

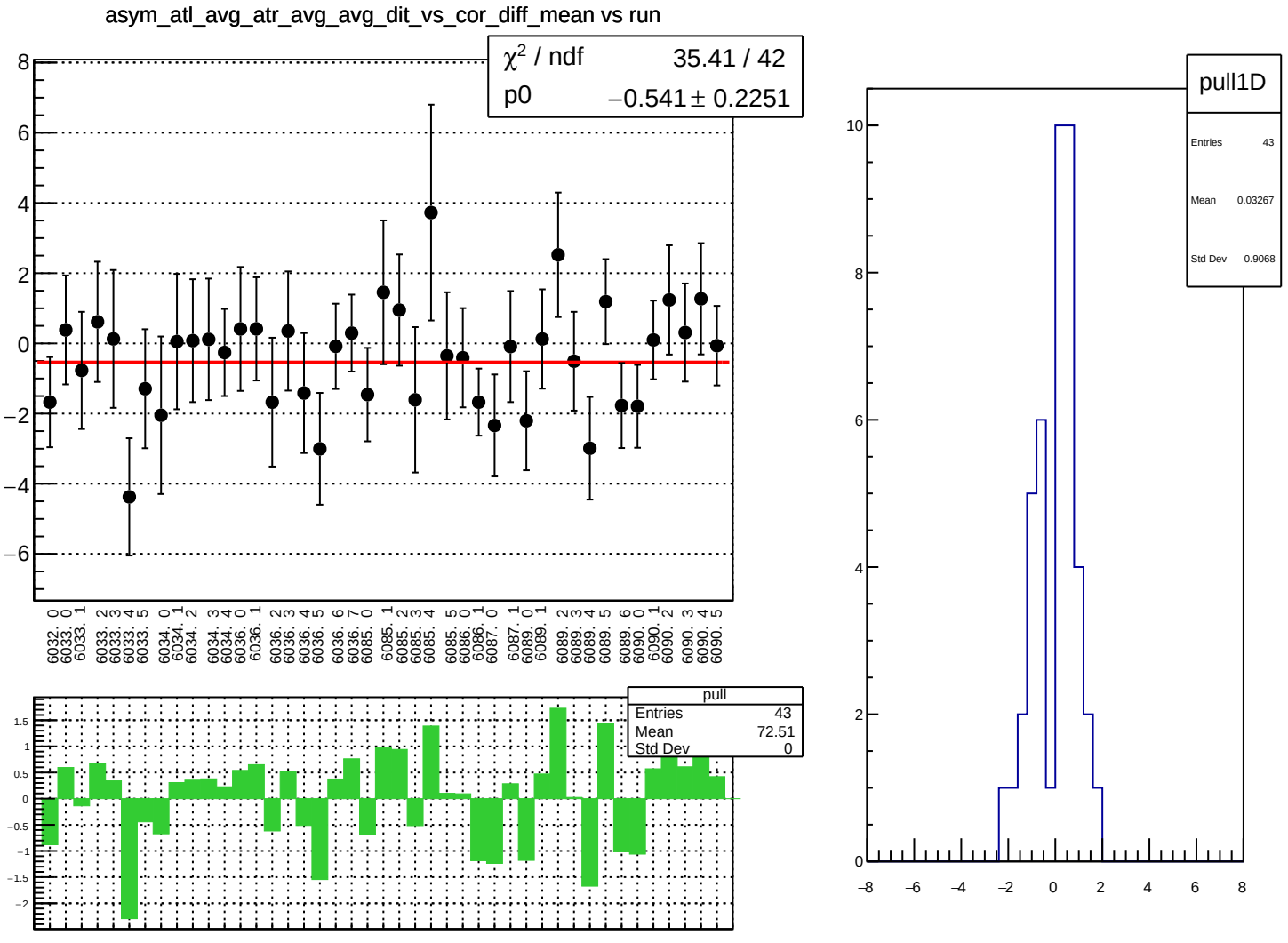

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 38.66 / 42
p0 −5071 ± 5270
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.04
Std Dev 0
2
1
0
−1
−2

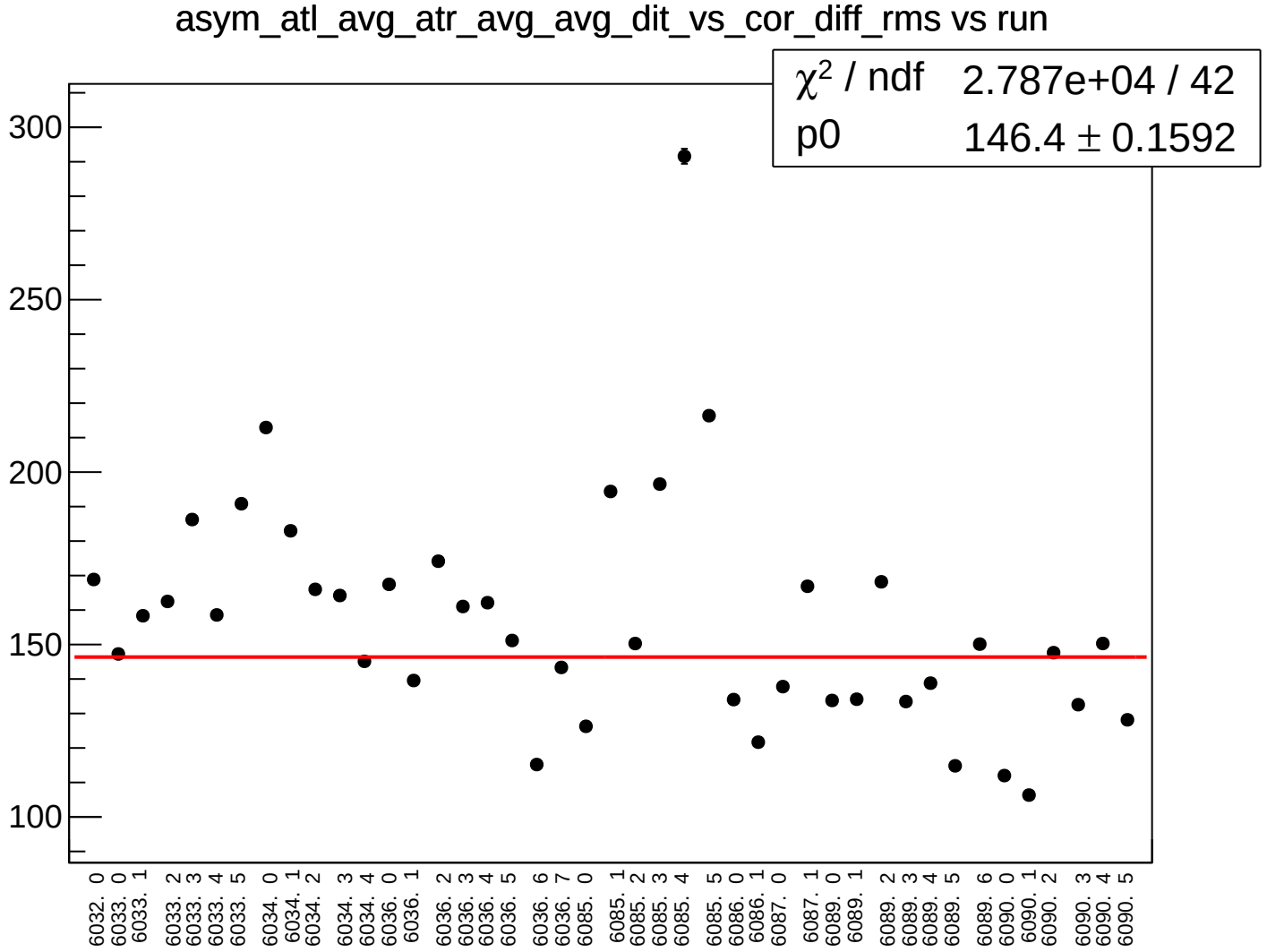

pull1D
Entries 43
Mean 0.02799
Std Dev 0.9478
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

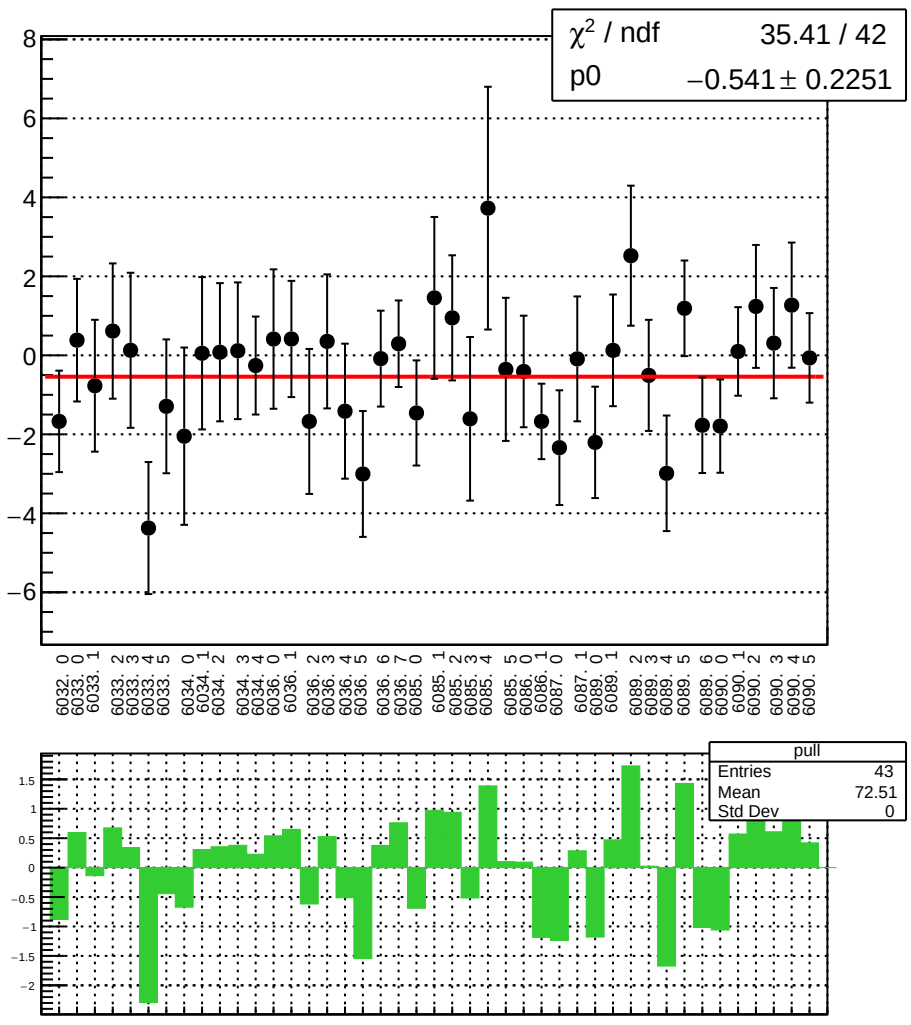

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4950 / 42
p0 3472 ± 3.726
4400
4200
4000
3800
3600
3400
3200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

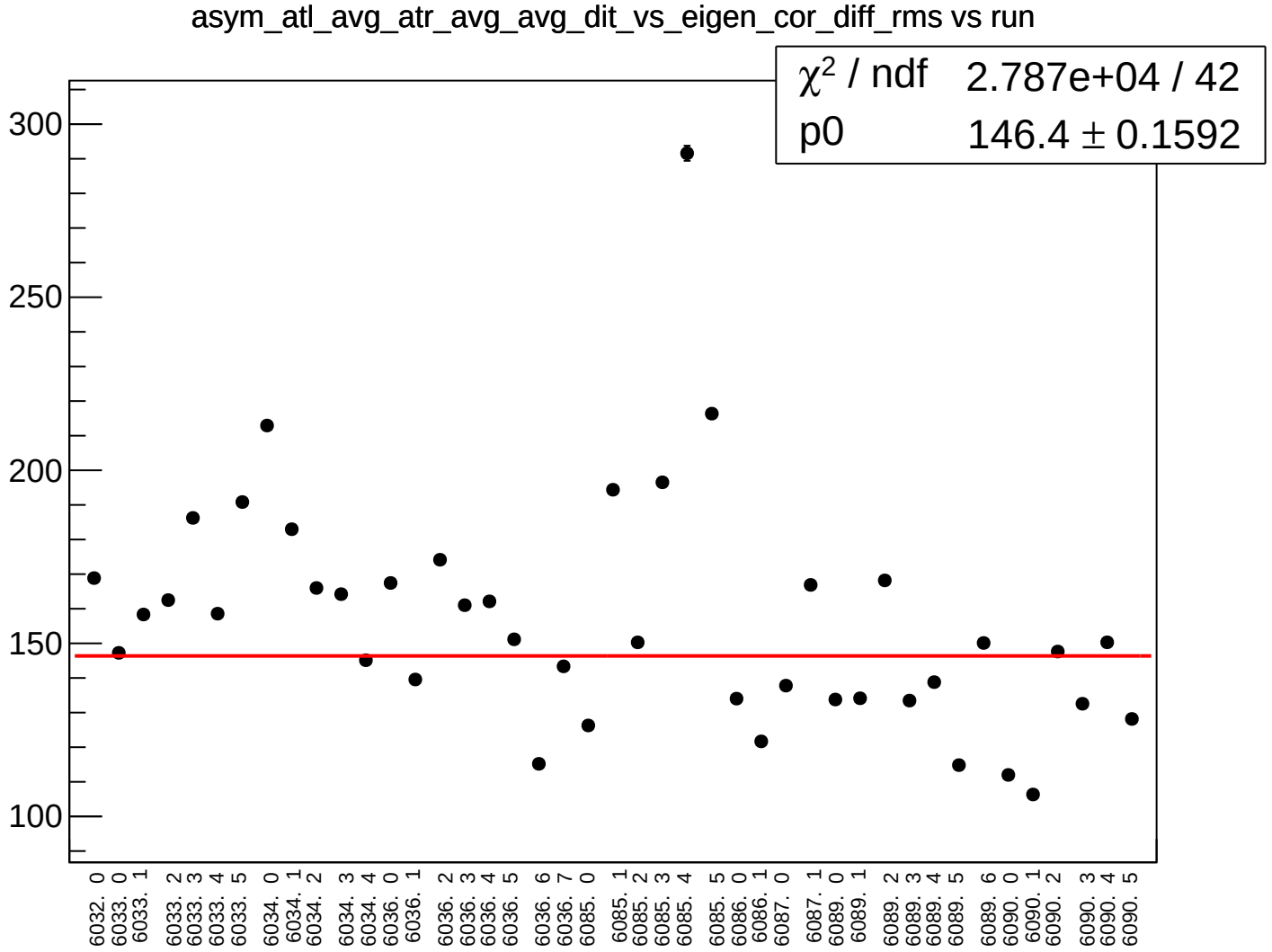

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.85 / 42
p0 −4.304e−13 ± 3.731e−13
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 38.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1526
Std Dev 0.8332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

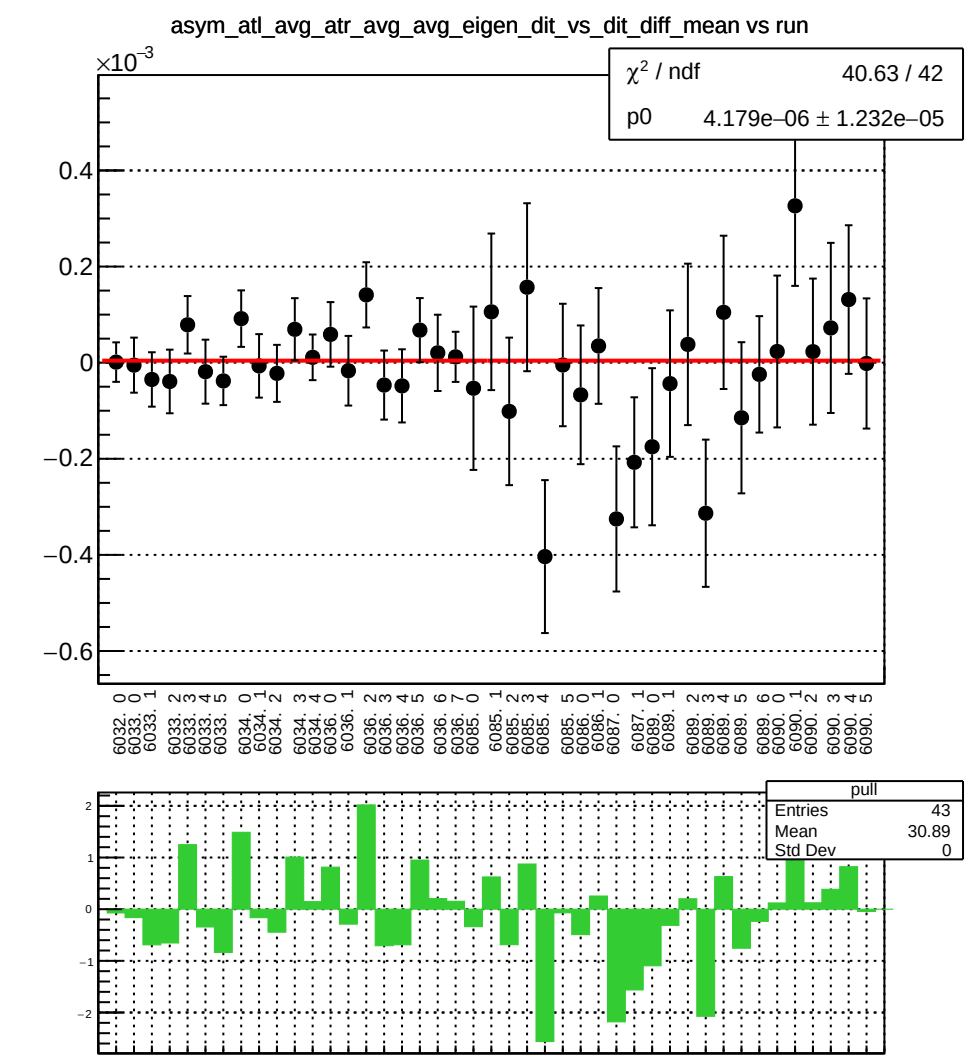

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.447e+05 / 42
p0 1.512e−10 ± 2.639e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

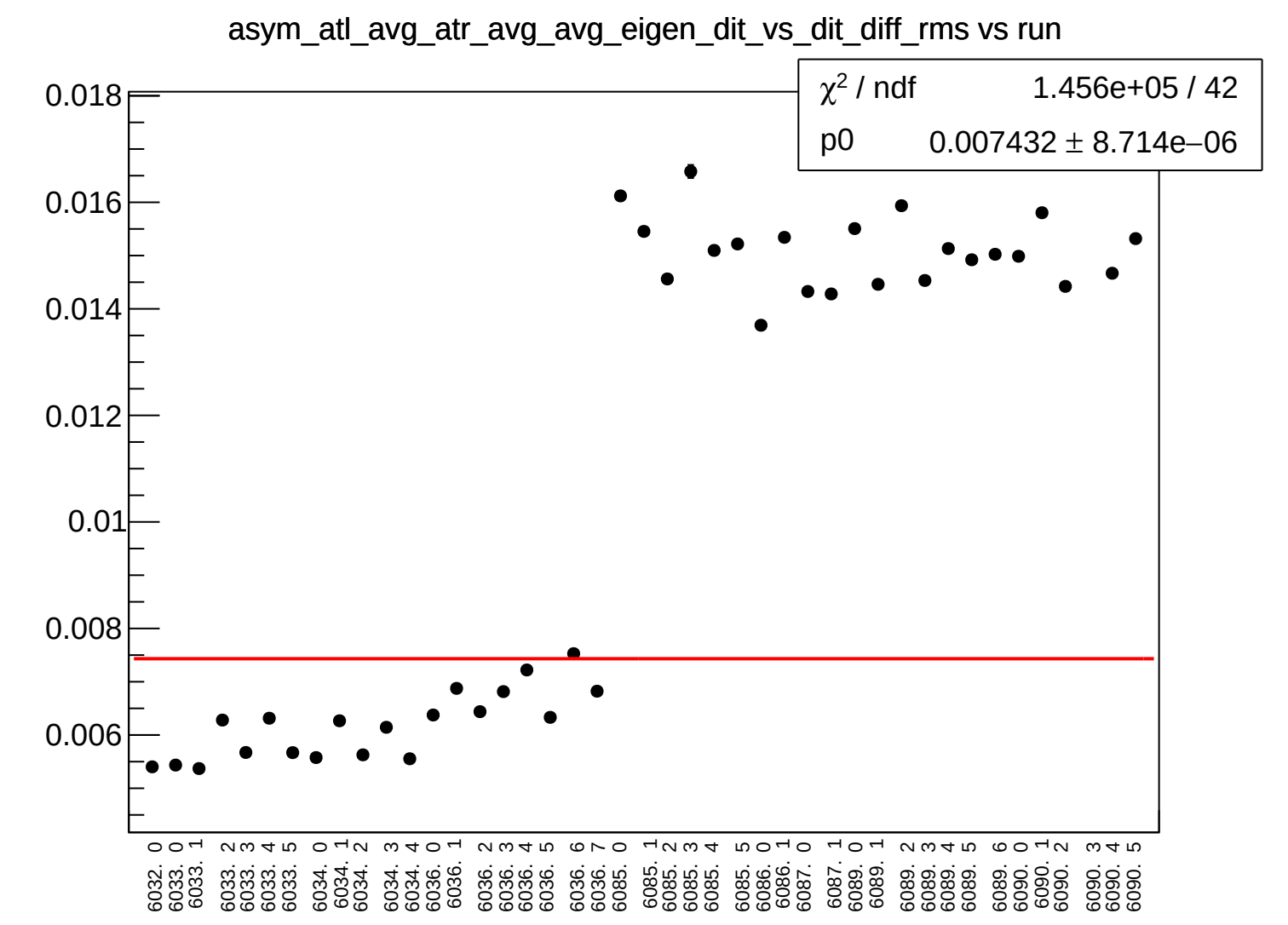

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.41 / 42
p0 −0.541 ± 0.2251
pull
Entries 43
Mean 72.51
Std Dev 0
pull1D
Entries 43
Mean 0.03267
Std Dev 0.9068


asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 42
p0 146.4 ± 0.1592
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.41 / 42
p0 −0.541 ± 0.2251
pull
Entries 43
Mean 72.51
Std Dev 0
pull1D
Entries 43
Mean 0.03267
Std Dev 0.9068


asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 42
p0 146.4 ± 0.1592
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.63 / 42
p0 4.179e−06 ± 1.232e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 30.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.08054
Std Dev 0.9687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.456e+05 / 42
p0 0.007432 ± 8.714e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6090. 2
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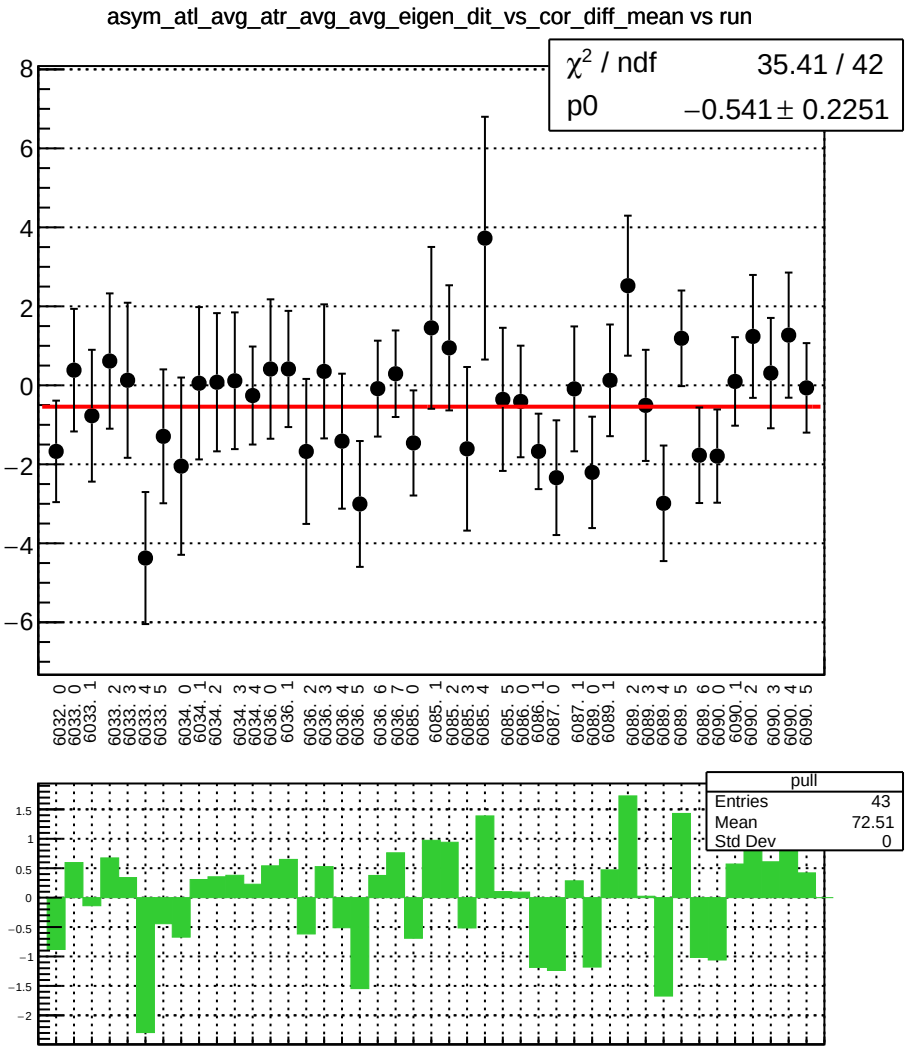
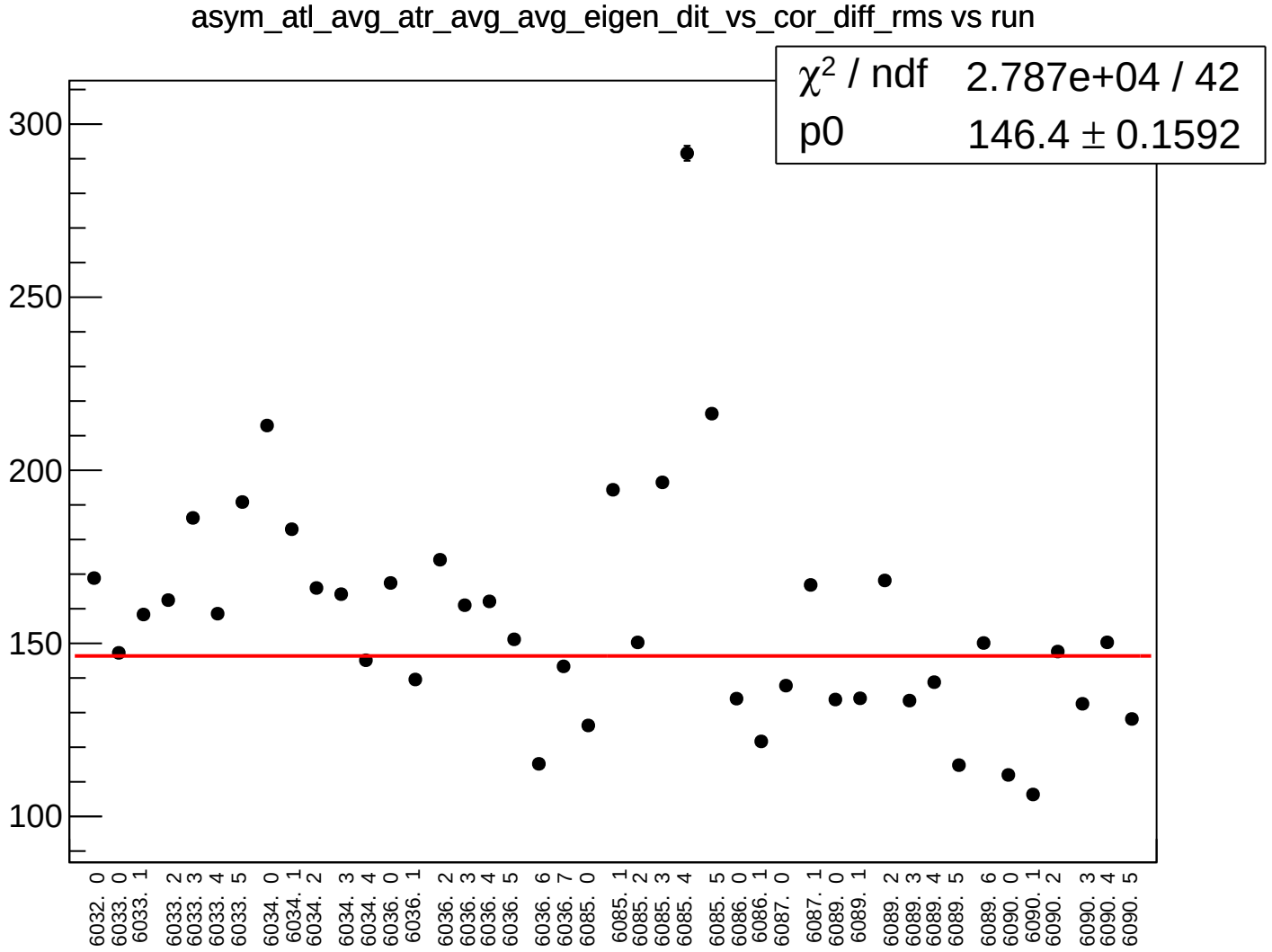
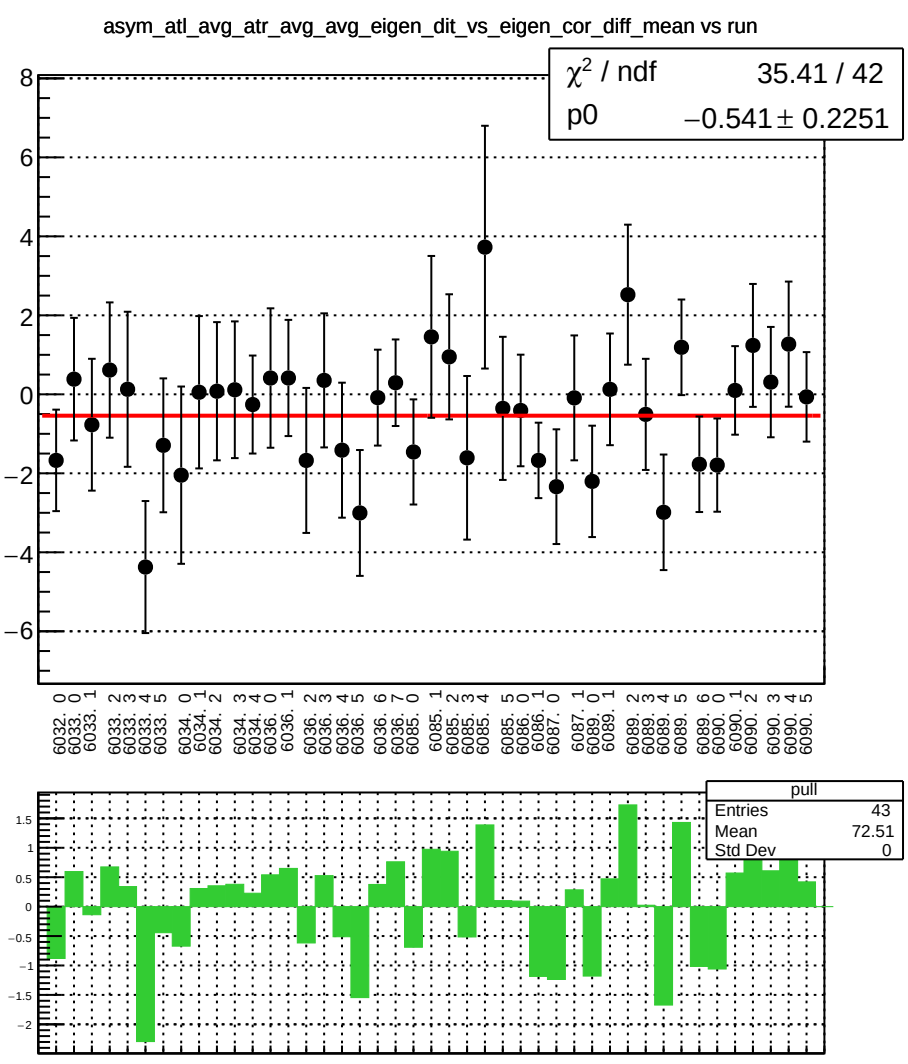
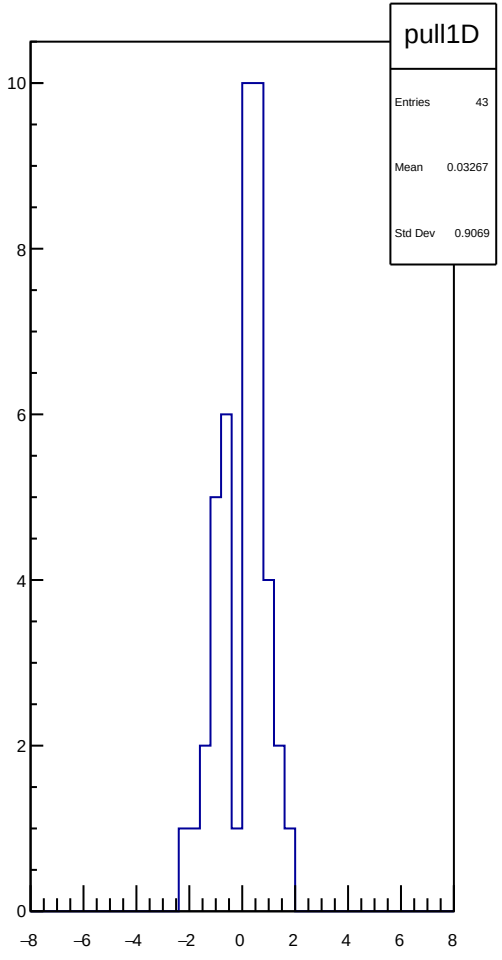
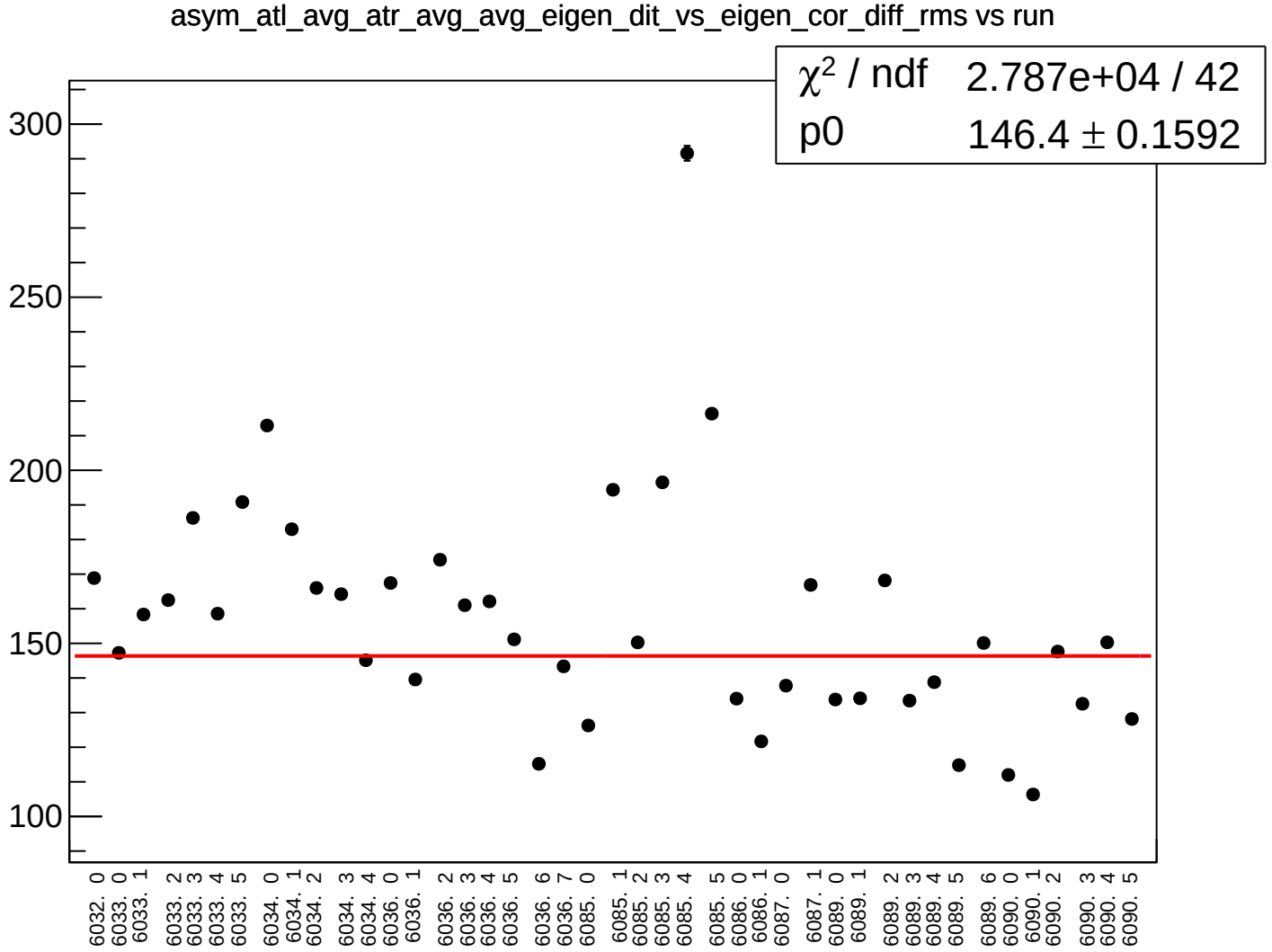
6090. 4
6090. 5

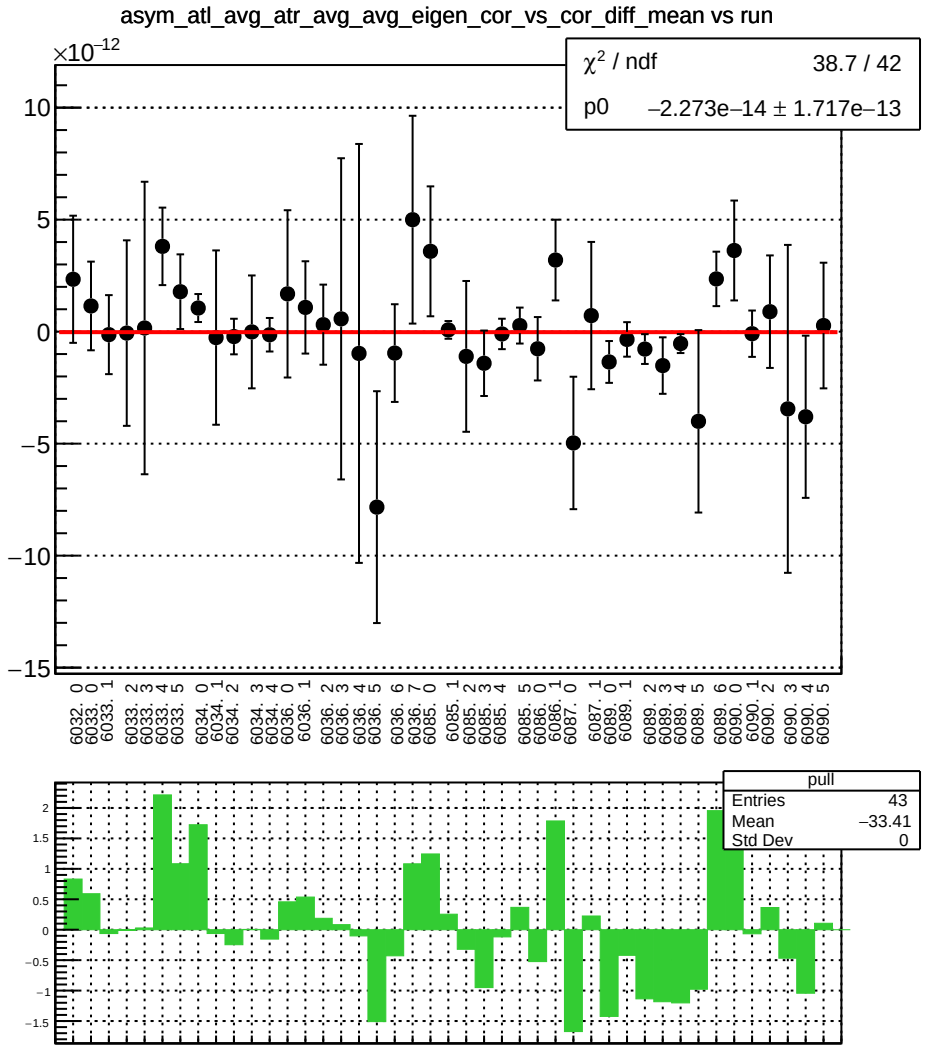

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.41 / 42
p0 −0.541 ± 0.2251
pull
Entries 43
Mean 72.51
Std Dev 0
pull1D
Entries 43
Mean 0.03267
Std Dev 0.9069

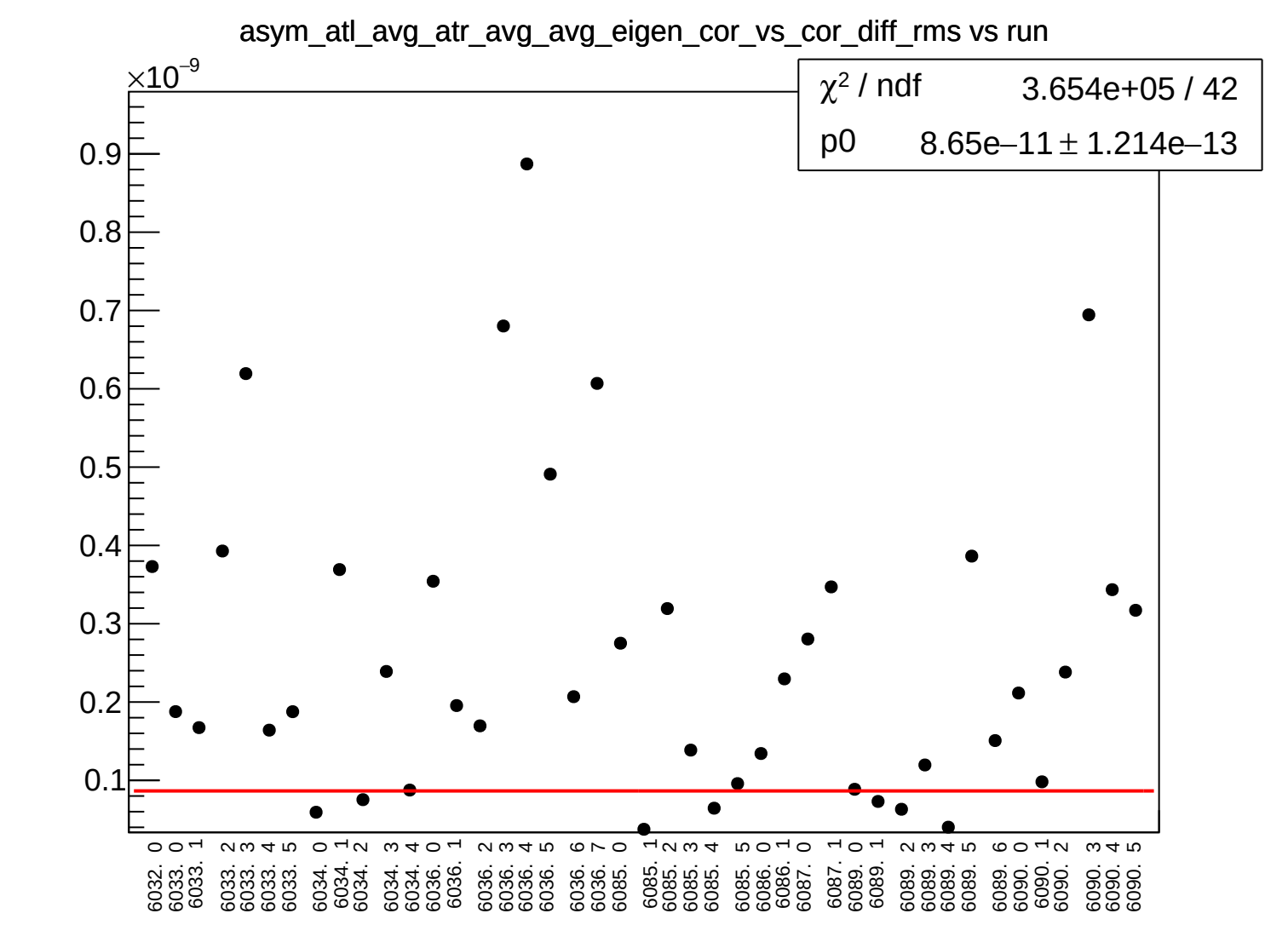

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 42
p0 146.4 ± 0.1592
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

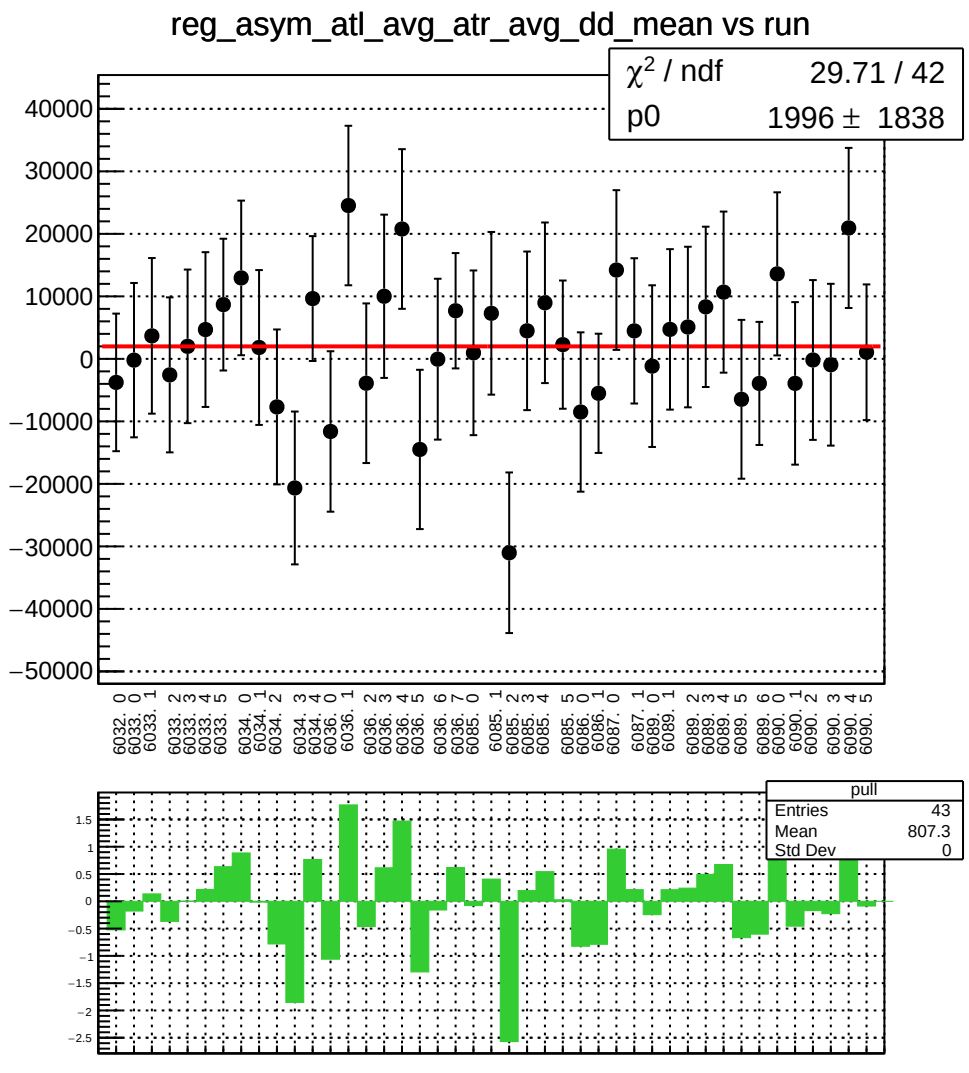

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.41 / 42
p0 −0.541 ± 0.2251
pull
Entries 43
Mean 72.51
Std Dev 0

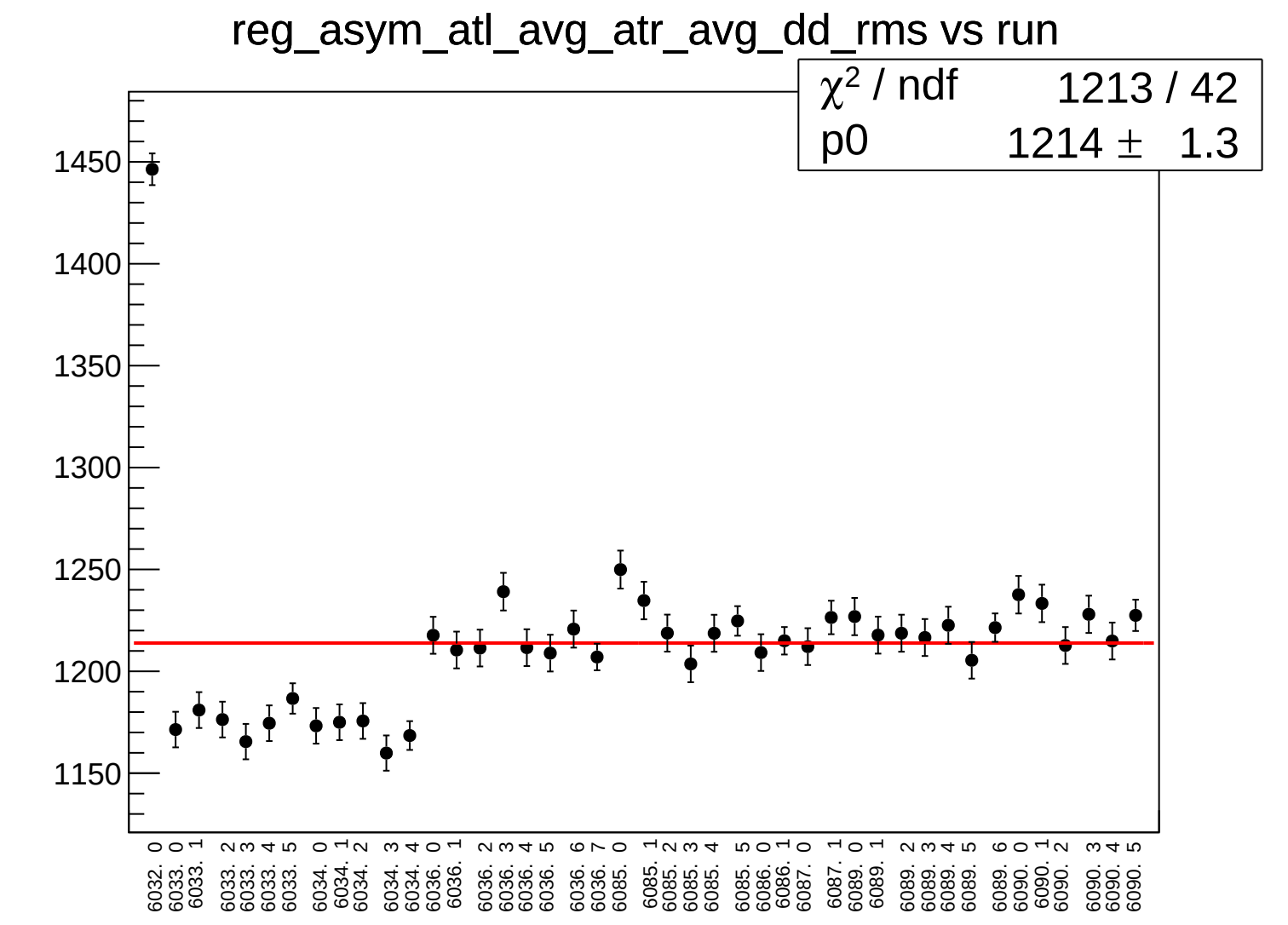

pull1D
Entries 43
Mean 0.03267
Std Dev 0.9069

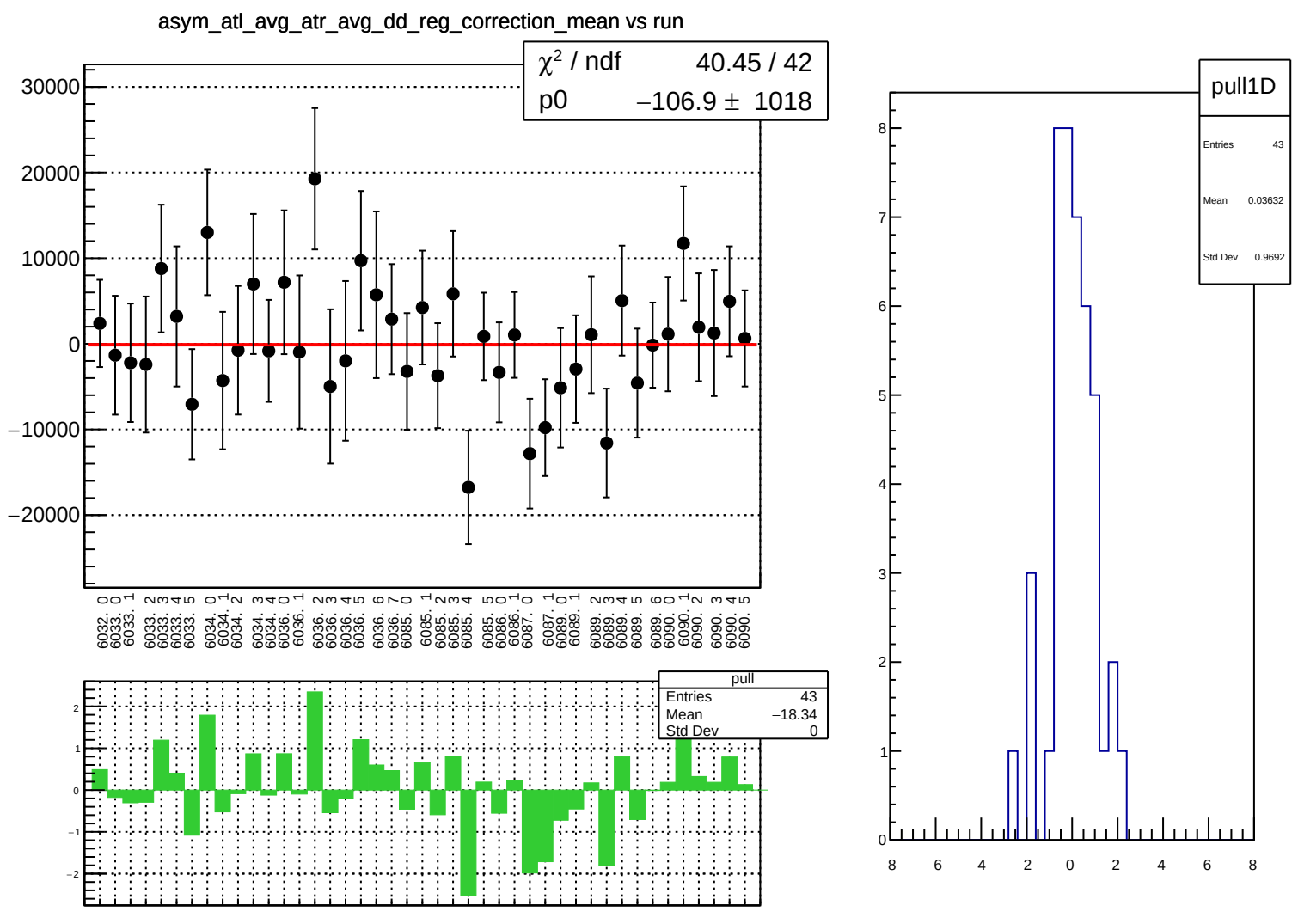

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.787e+04 / 42
p0 146.4 ± 0.1592
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

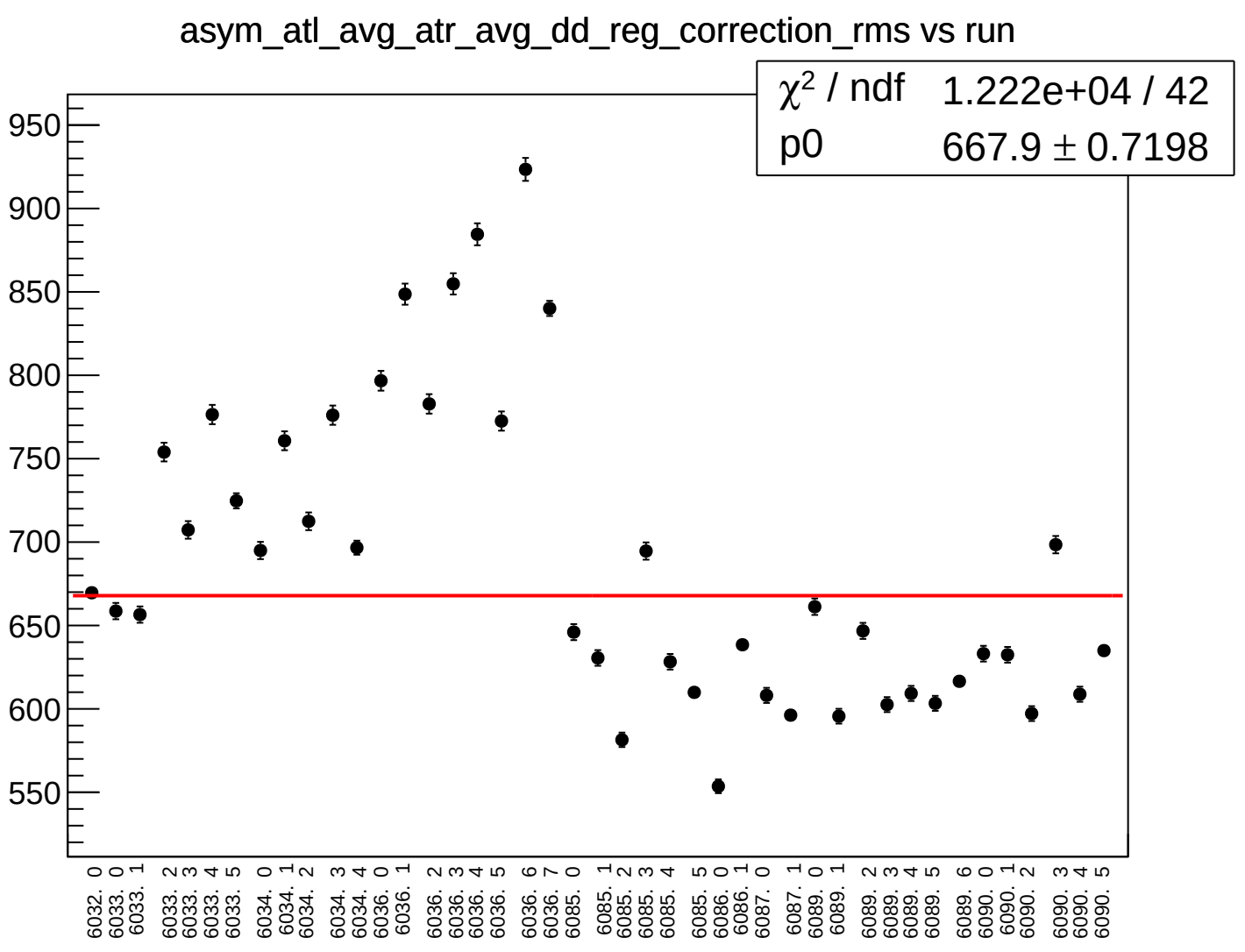

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 38.7 / 42
p0 −2.273e−14 ± 1.717e−13
pull
Entries 43
Mean −33.41
Std Dev 0
pull1D
Entries 43
Mean 0.06239
Std Dev 0.9466

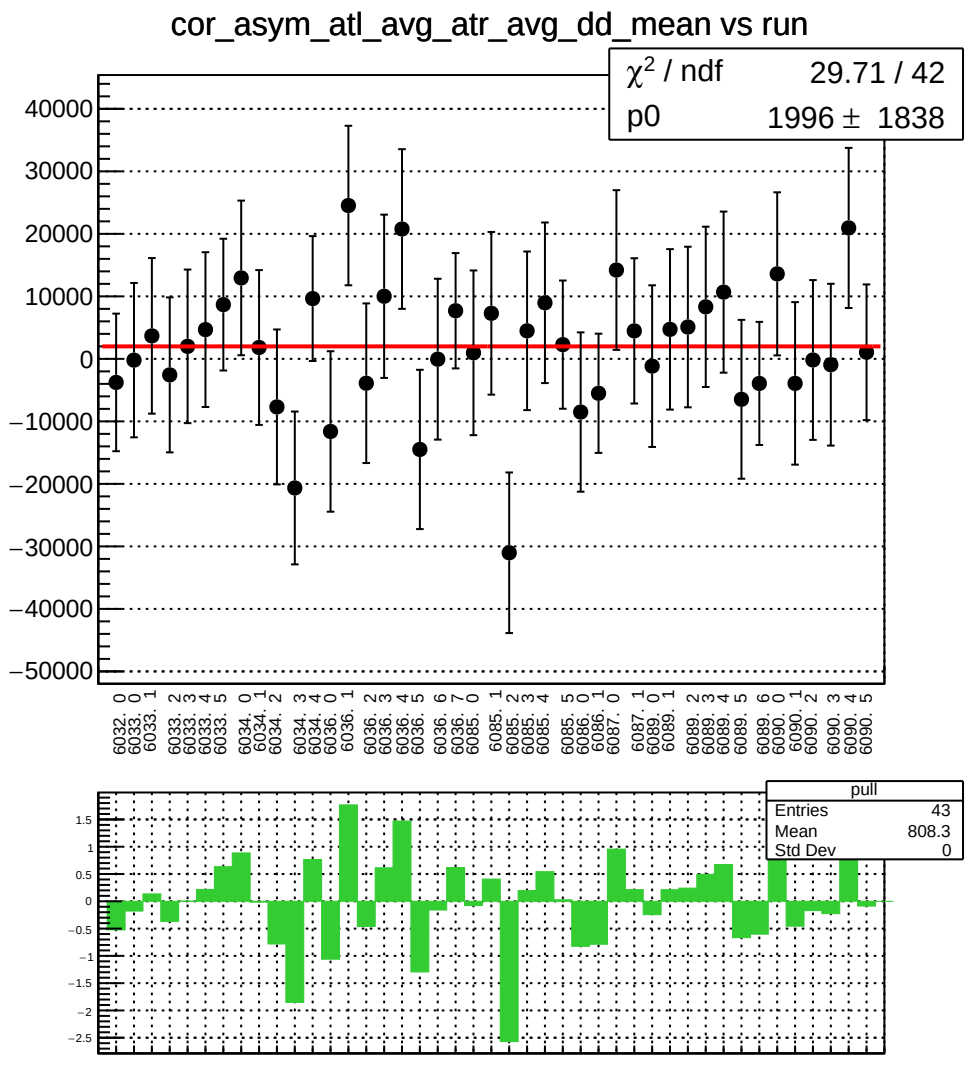

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.654e+05 / 42
p0 8.65e−11 ± 1.214e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

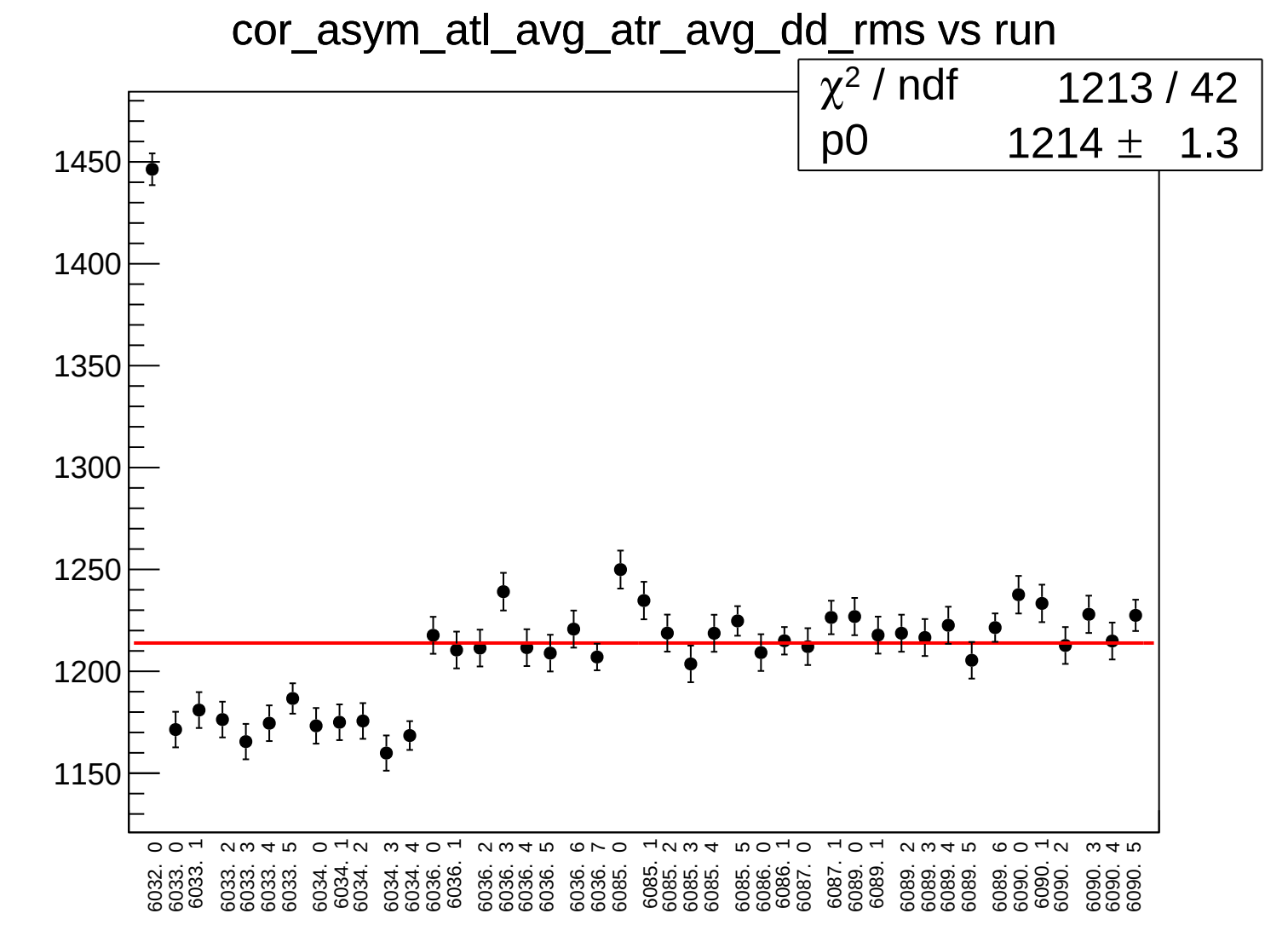

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 29.71 / 42
p0 1996 ± 1838
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 807.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.000962
Std Dev 0.8312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1213 / 42
p0 1214 ± 1.3
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 40.45 / 42
p0 −106.9 ± 1018
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03632
Std Dev 0.9692
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 1.222e+04 / 42
p0 667.9 ± 0.7198
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 29.71 / 42
p0 1996 ± 1838
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 808.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.0009616
Std Dev 0.8312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1213 / 42
p0 1214 ± 1.3
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
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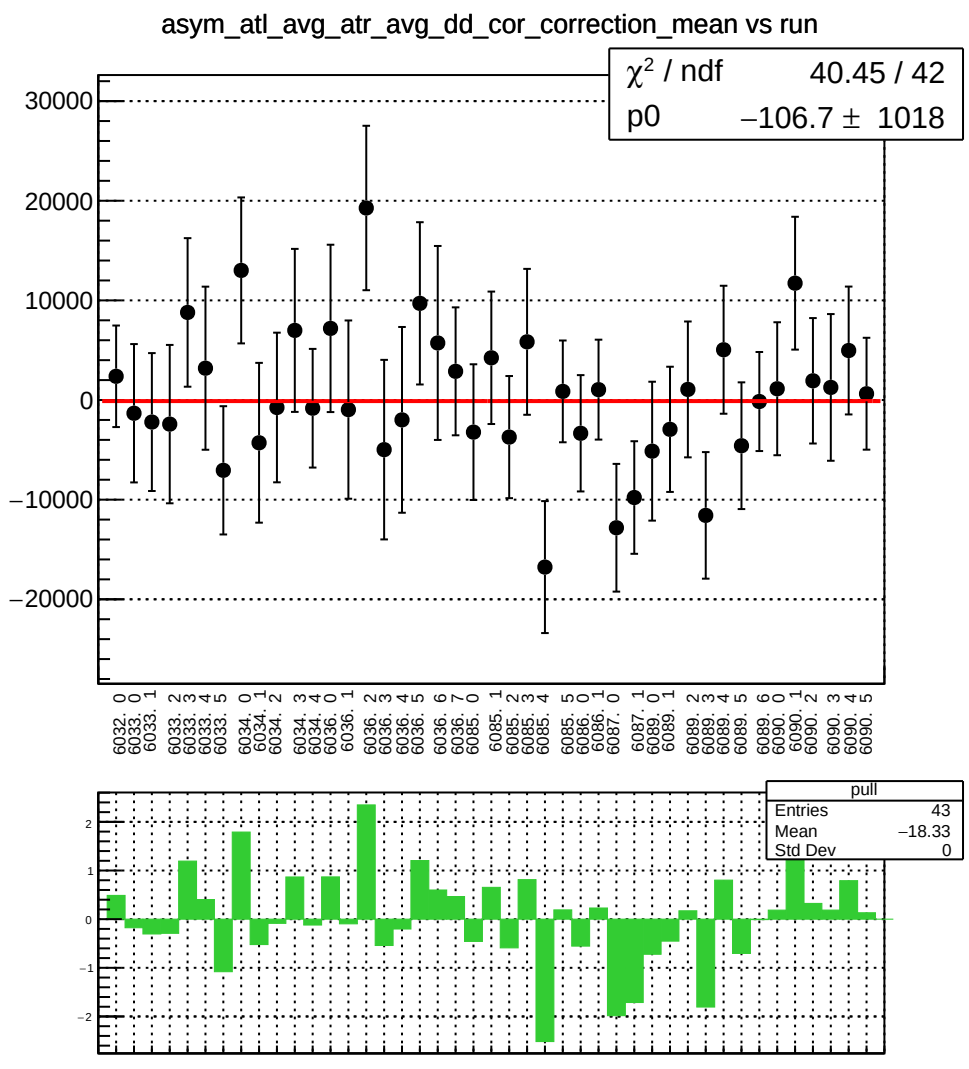
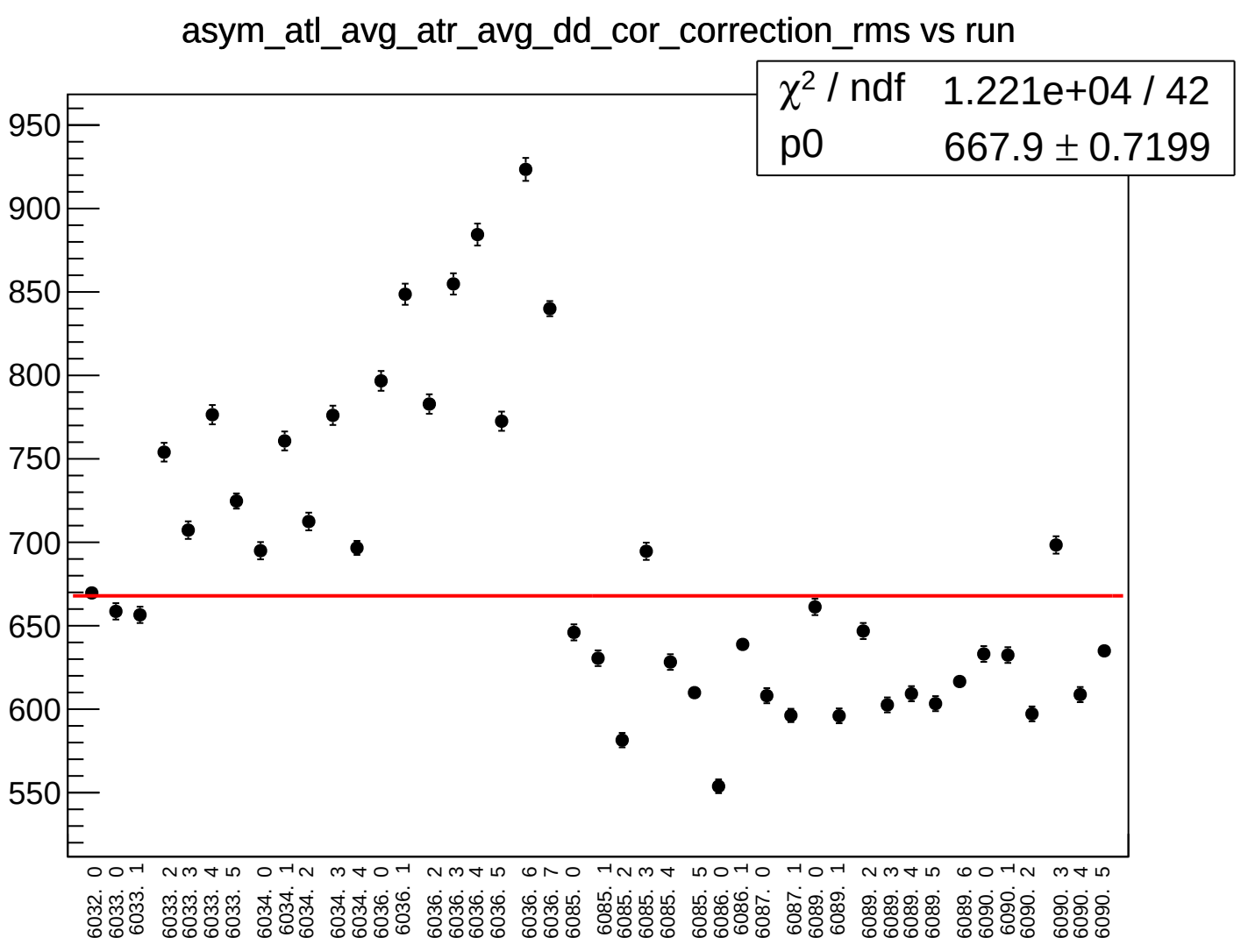
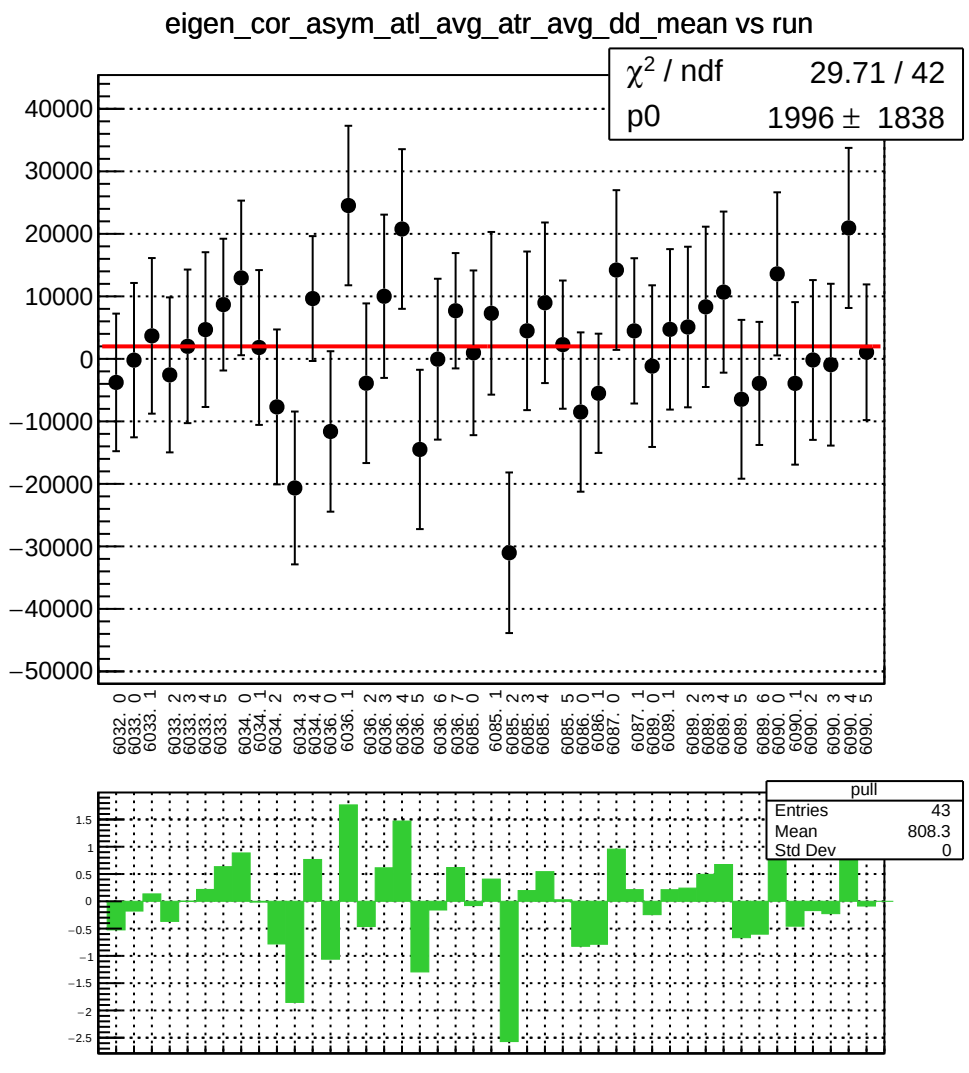
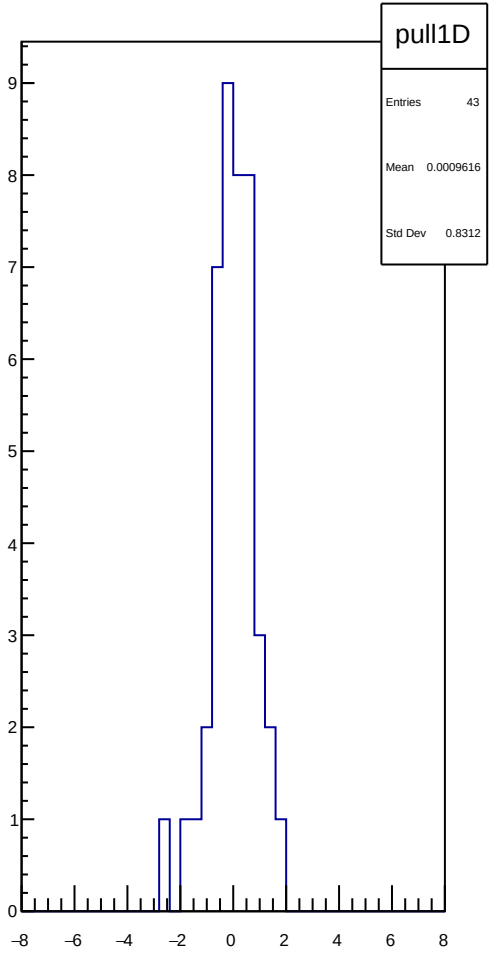
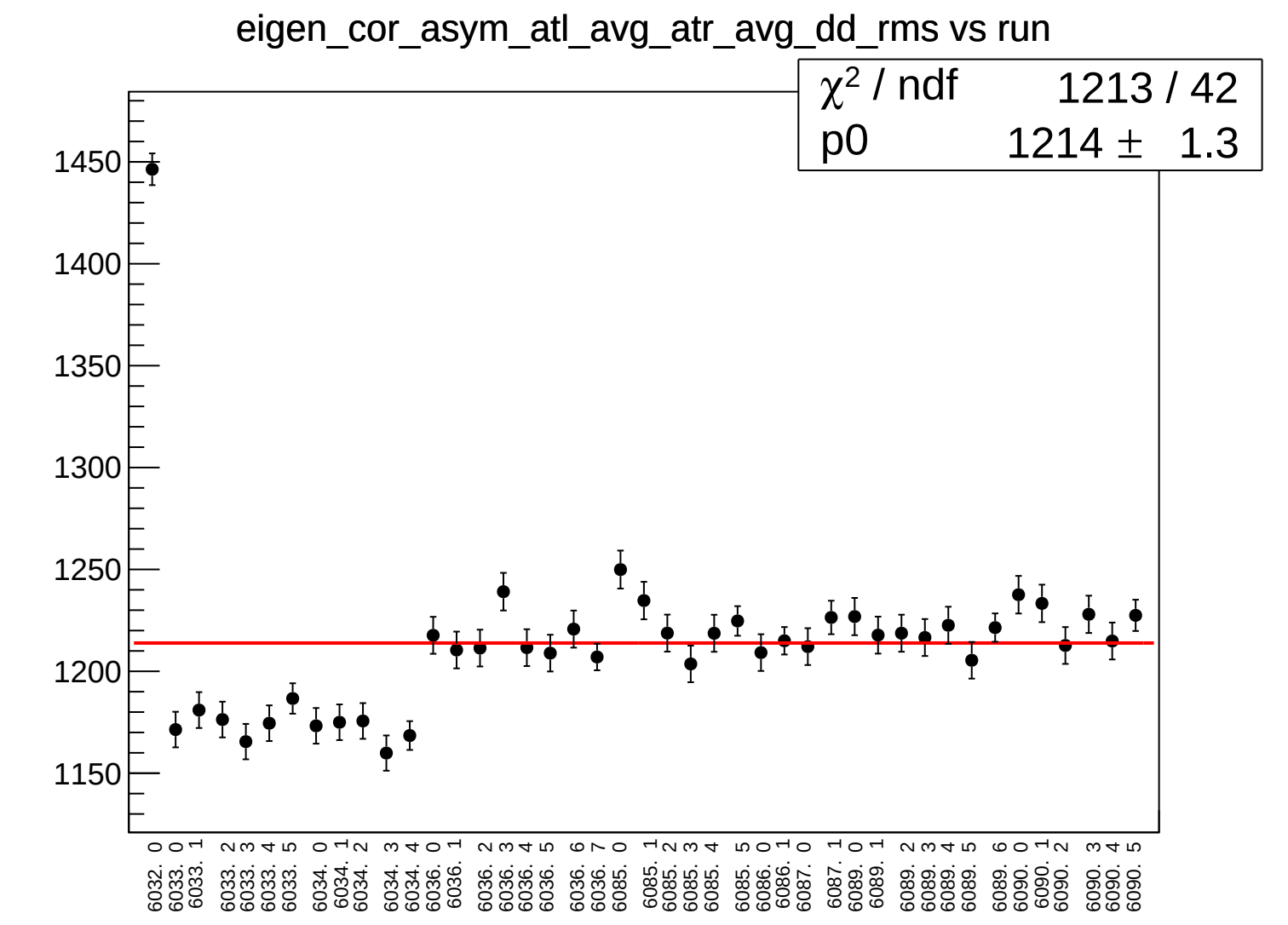
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 40.45 / 42
p0 −106.7 ± 1018
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03631
Std Dev 0.9692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.221e+04 / 42
p0 667.9 ± 0.7199
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 29.71 / 42
p0 1996 ± 1838
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 808.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.0009616
Std Dev 0.8312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1213 / 42
p0 1214 ± 1.3
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
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6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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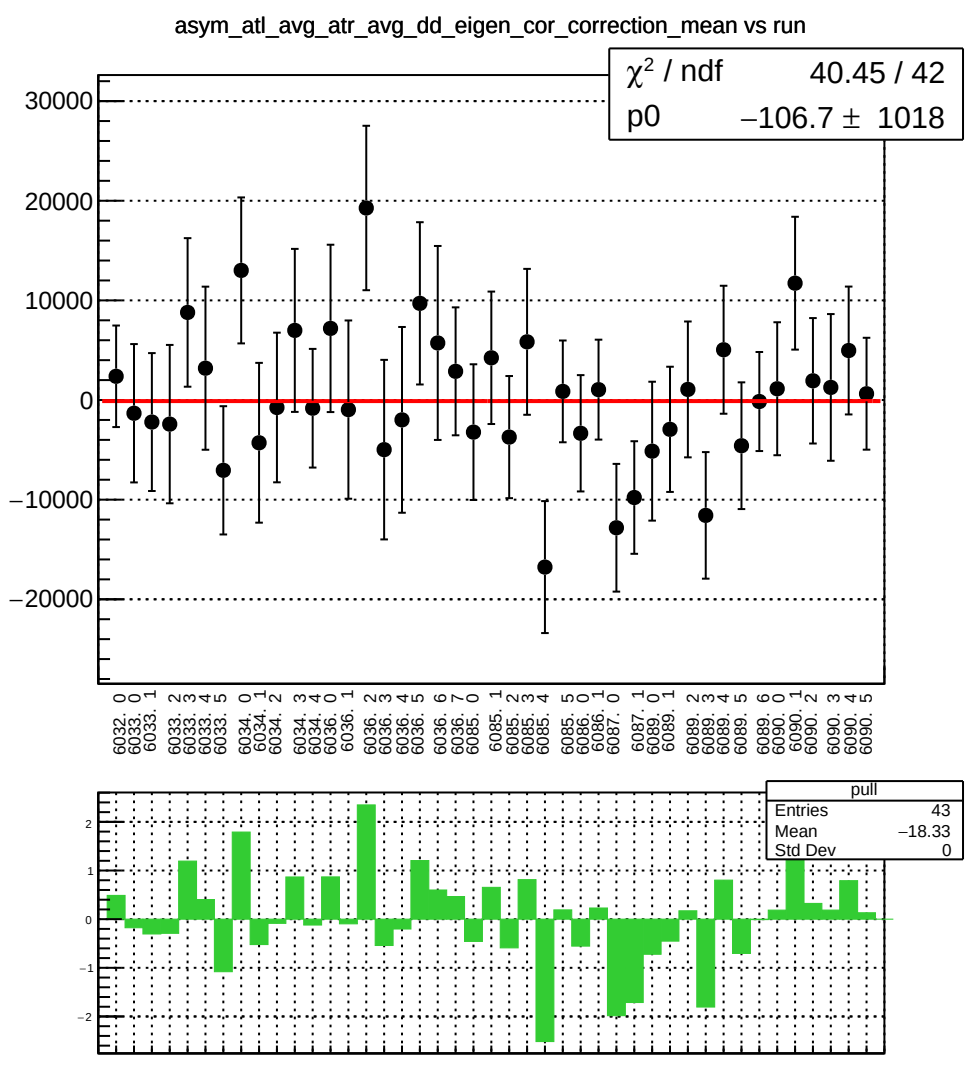
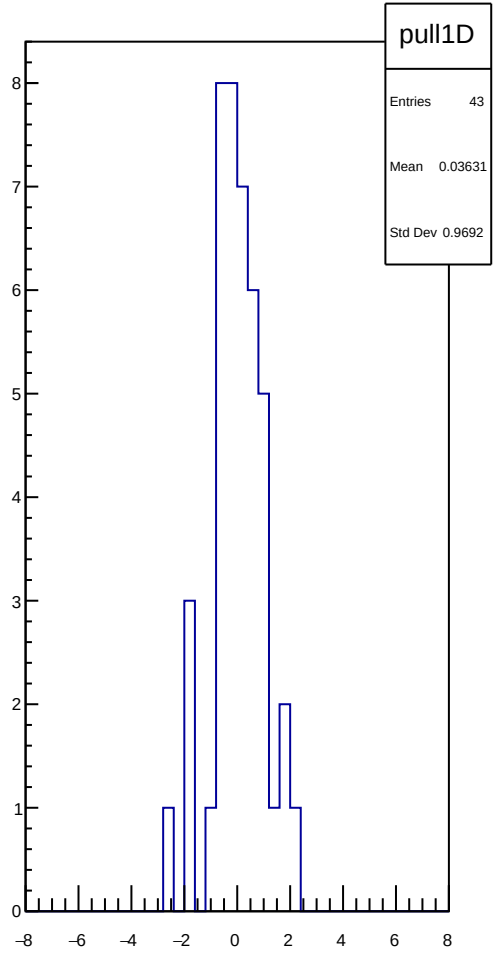
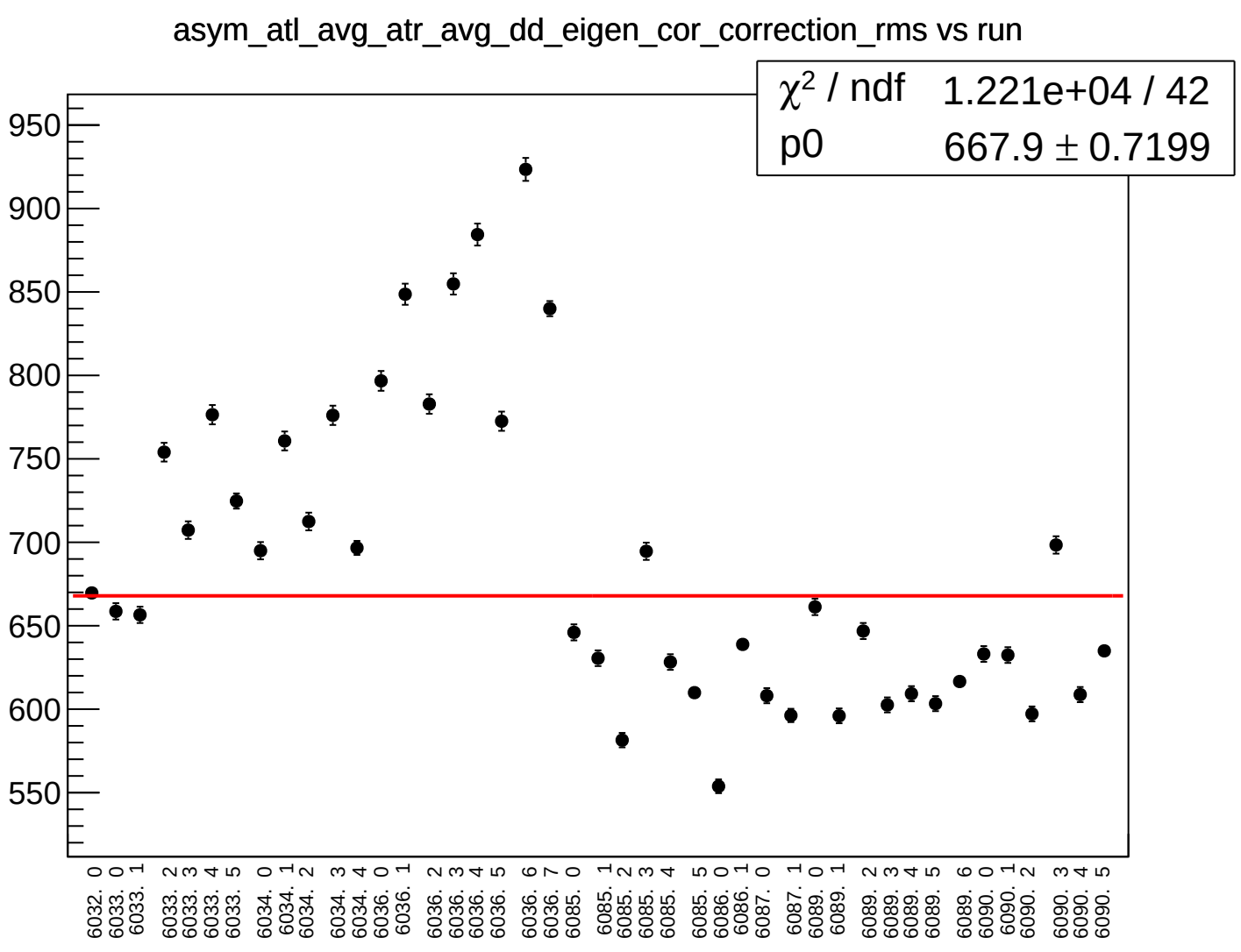
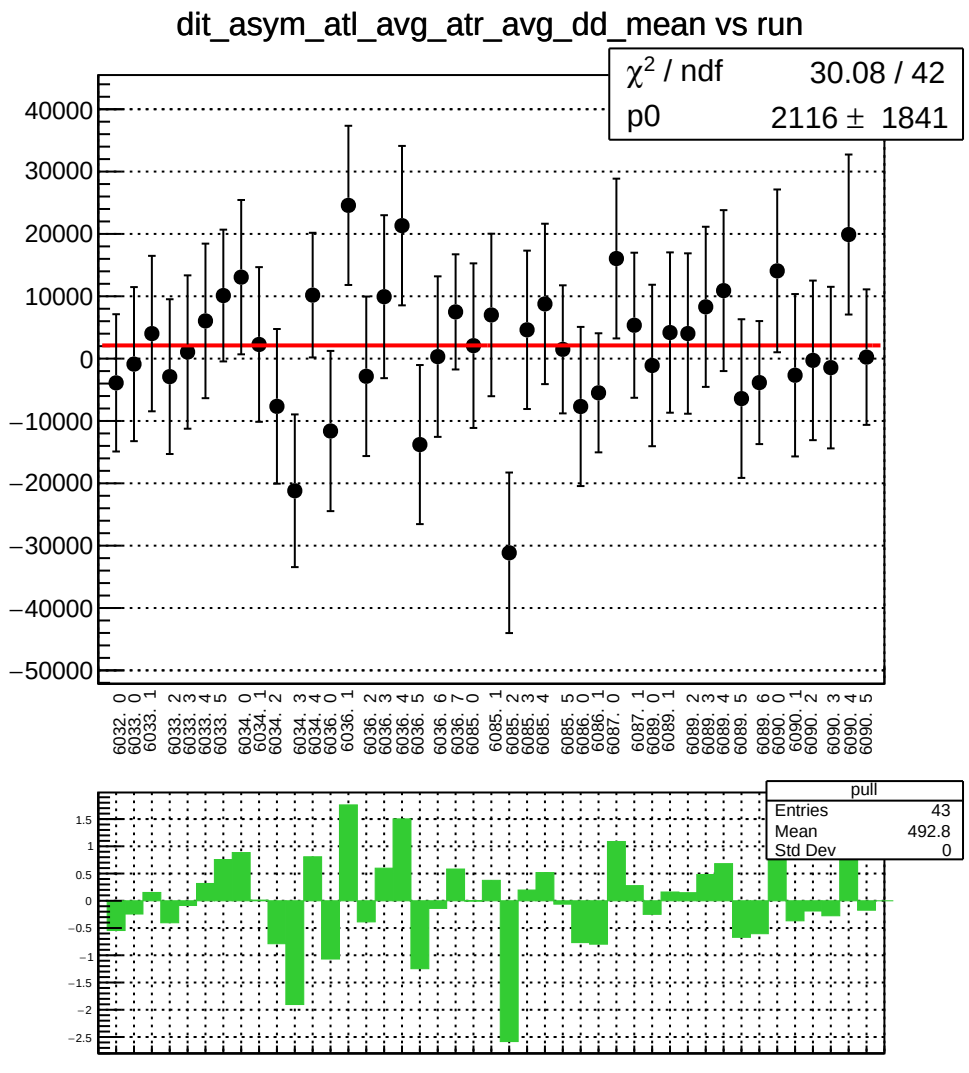
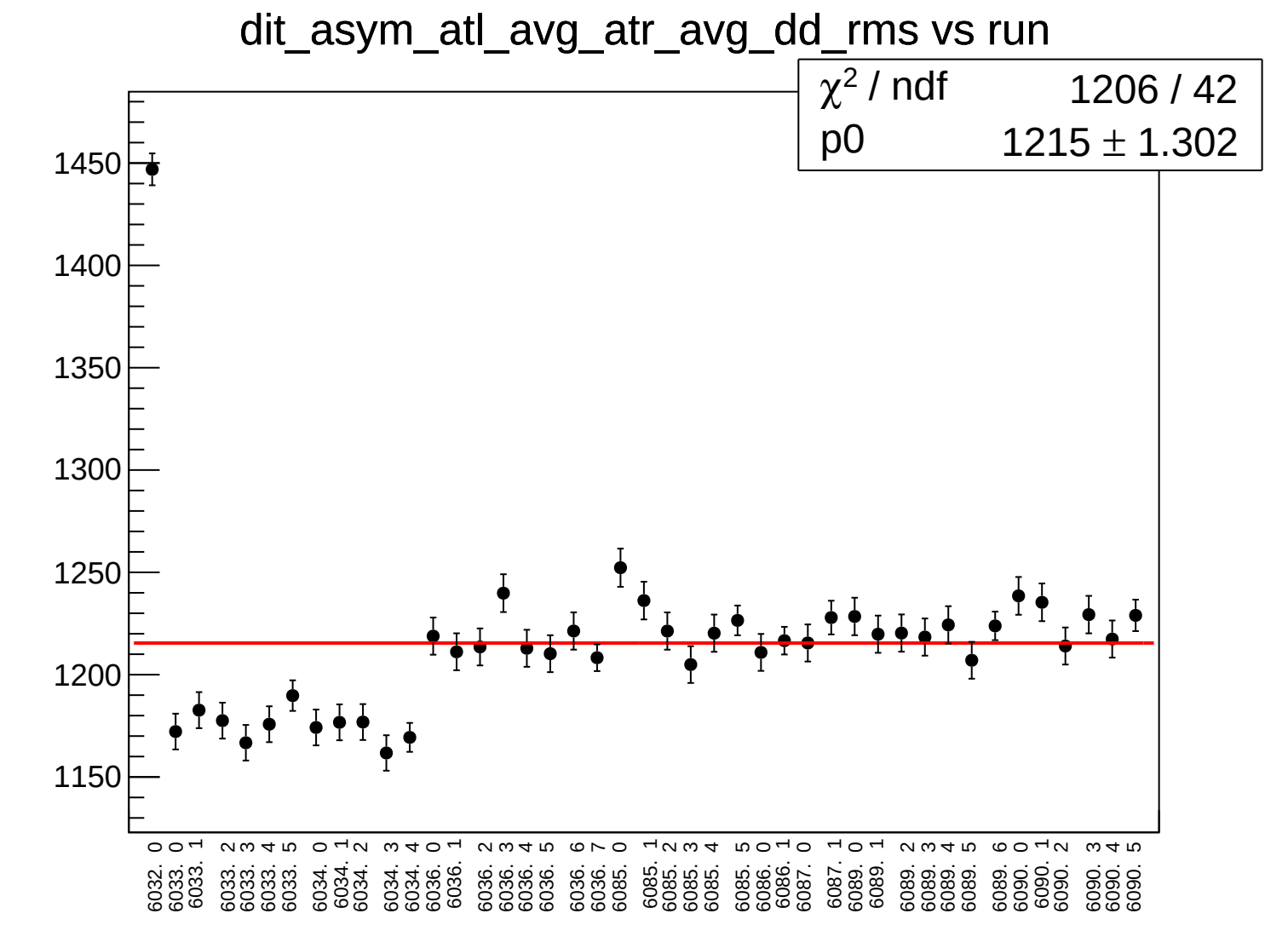
6090. 4
6090. 5

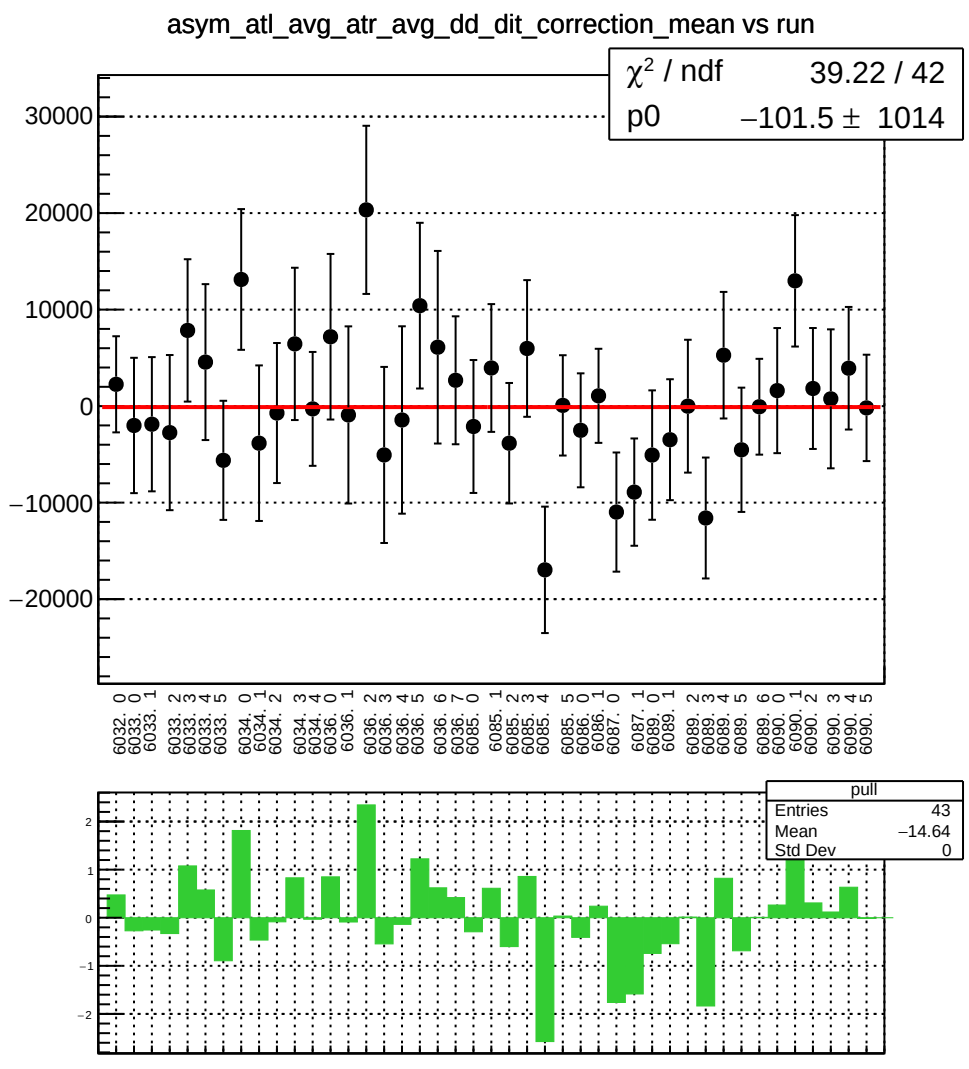

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.45 / 42
p0 −106.7 ± 1018
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.33
Std Dev 0
2
1
0
−1
−2

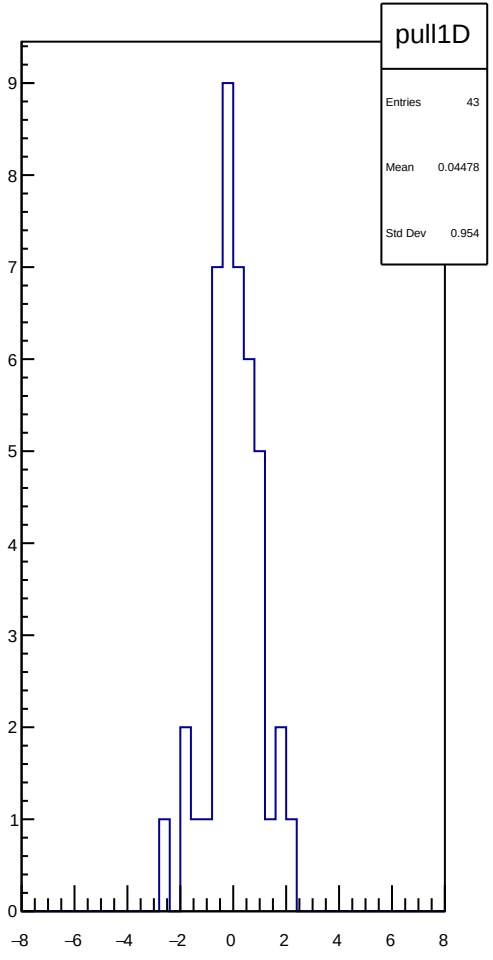

pull1D
Entries 43
Mean 0.03631
Std Dev 0.9692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

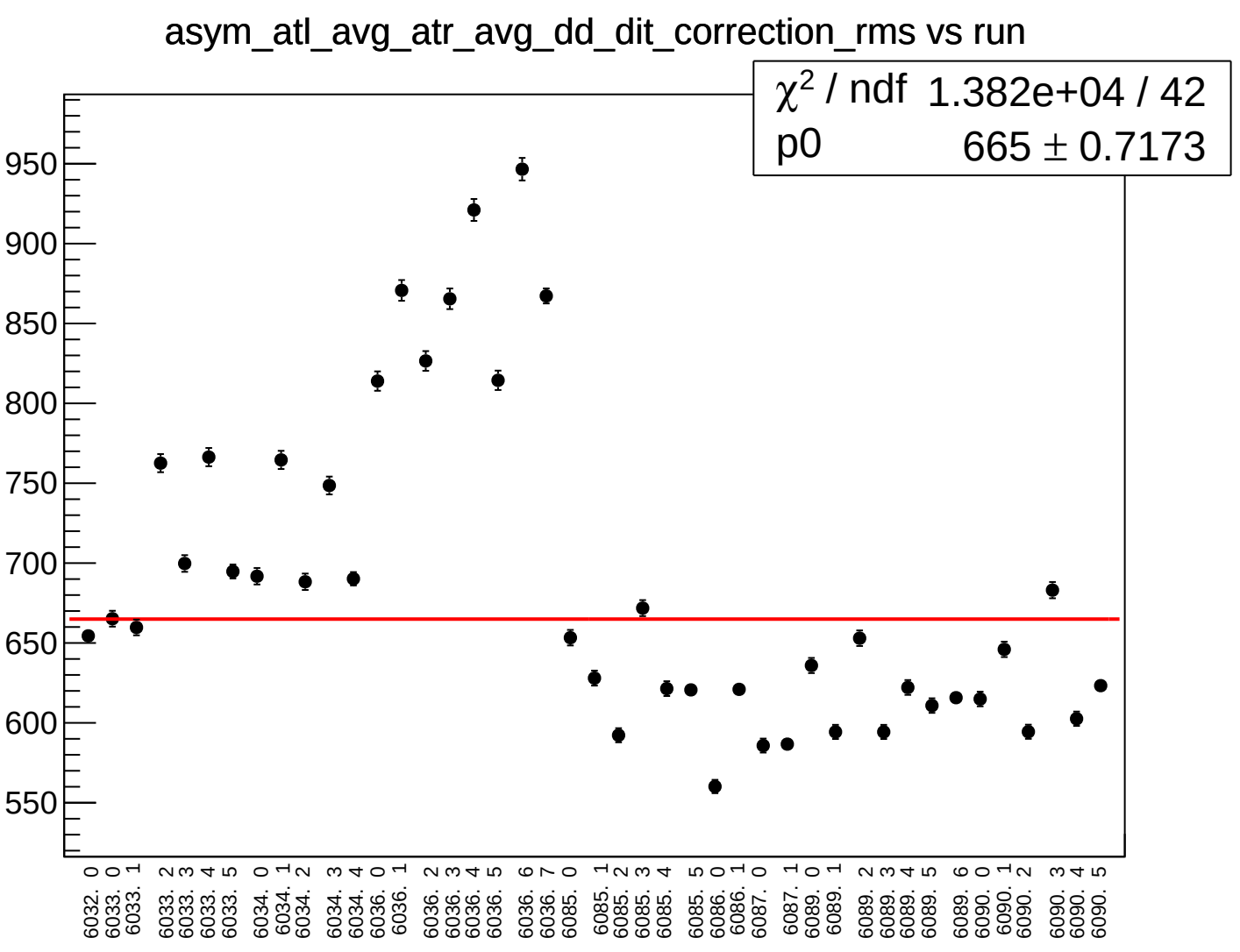

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.221e+04 / 42
p0 667.9 ± 0.7199
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

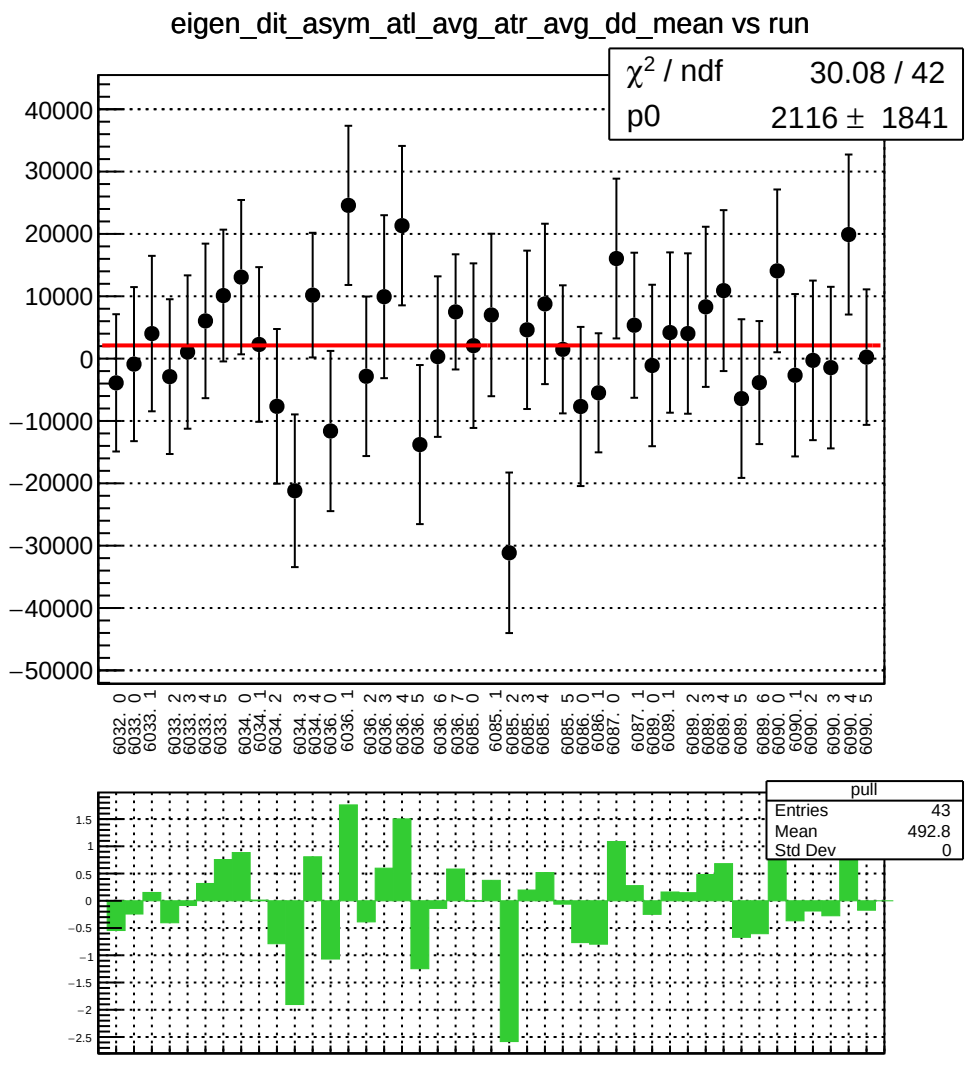

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 30.08 / 42
p0 2116 ± 1841
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 492.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.001398
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

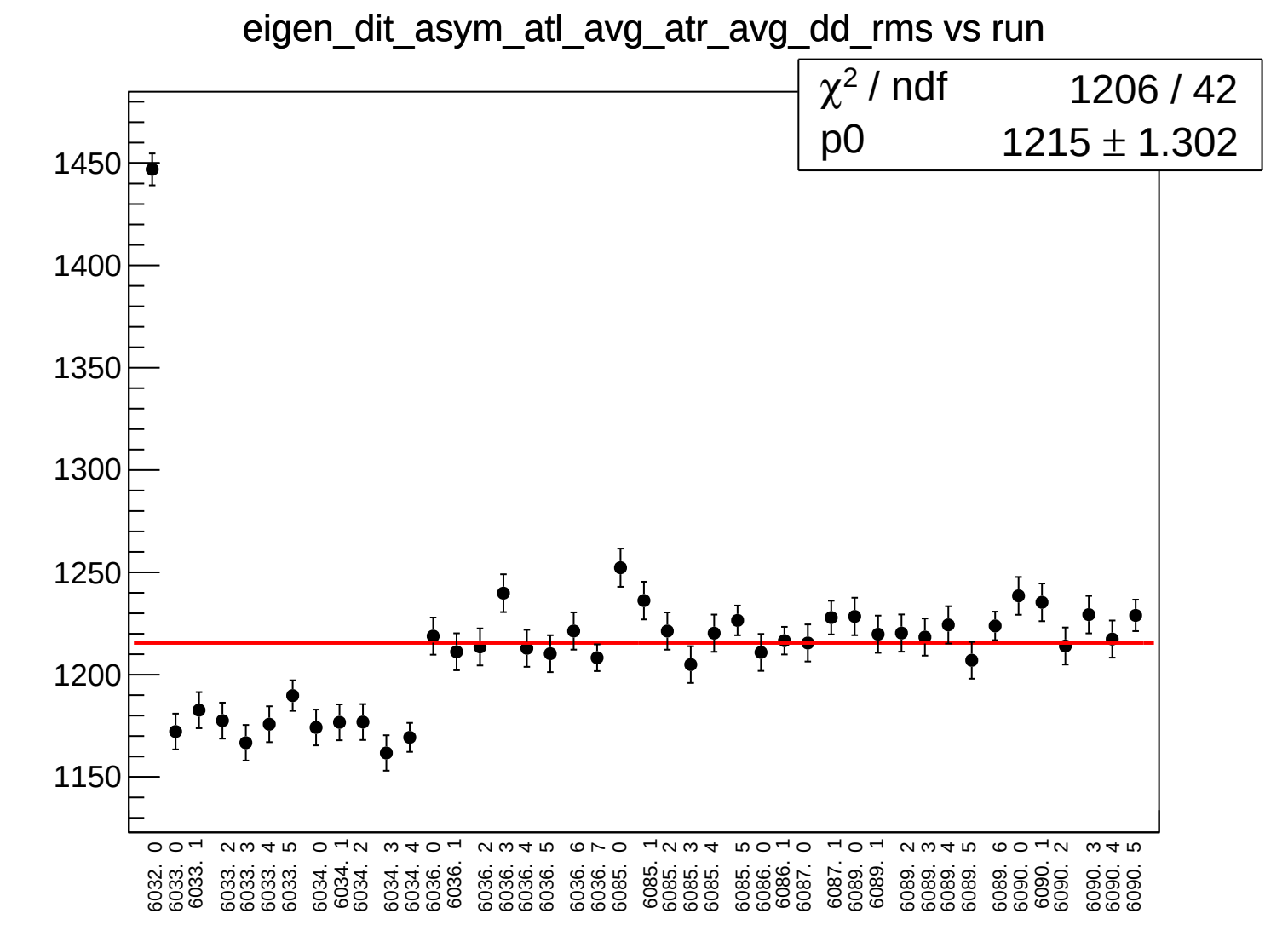

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1206 / 42
p0 1215 ± 1.302
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

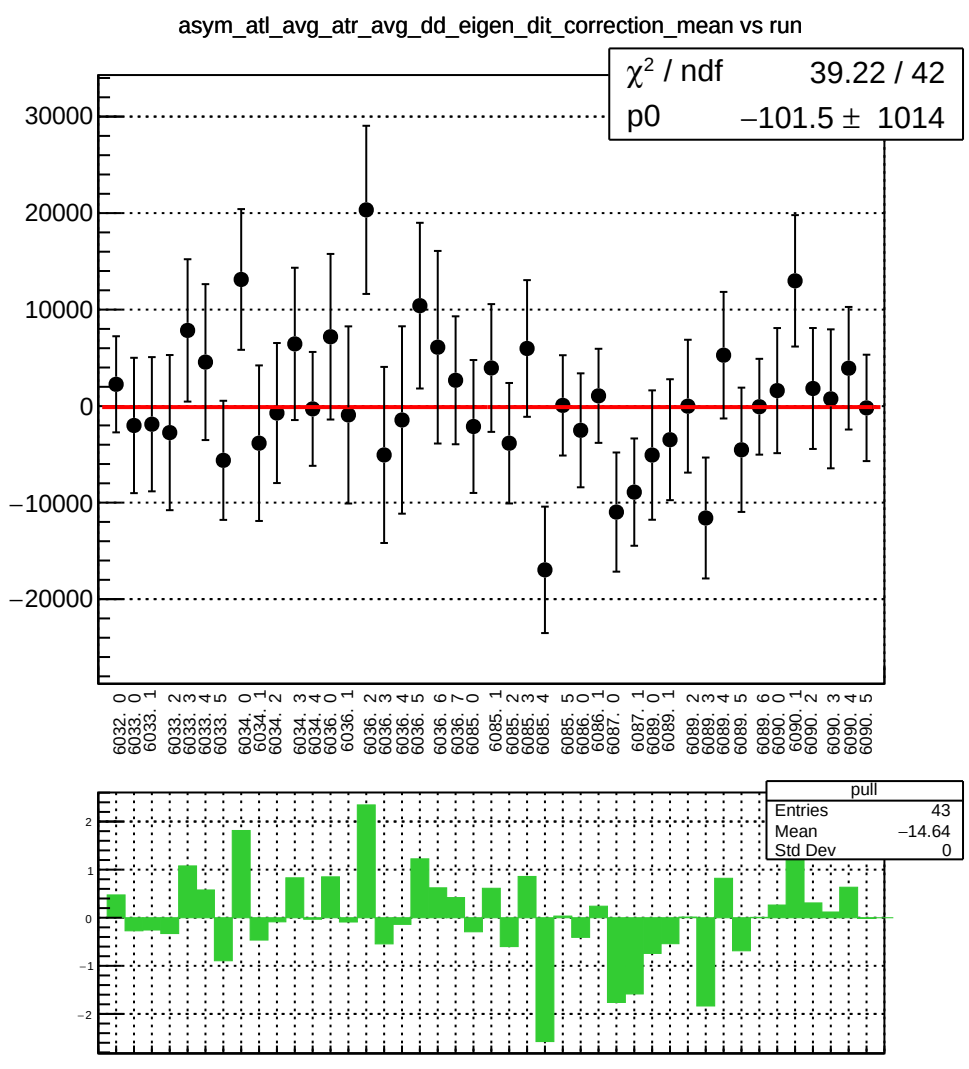

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 39.22 / 42
p0 −101.5 ± 1014
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.64
Std Dev 0
2
1
0
−1
−2

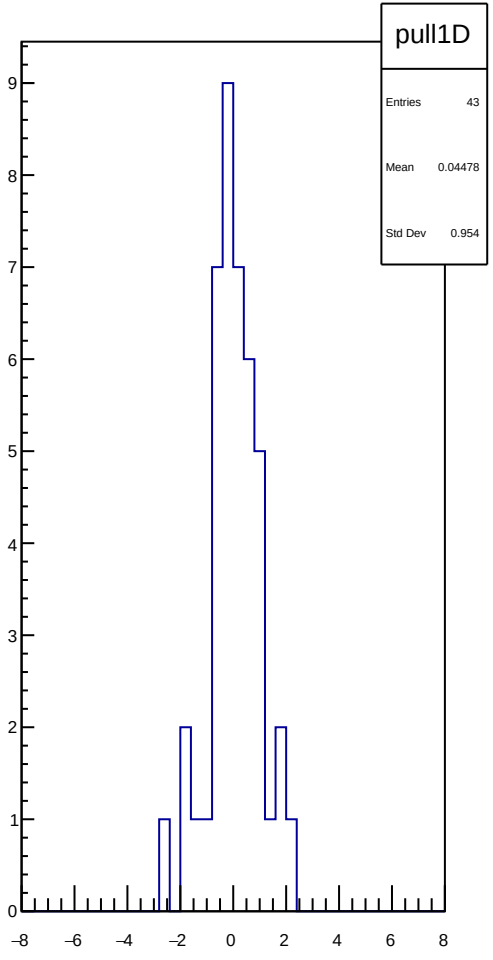

pull1D
Entries 43
Mean 0.04478
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

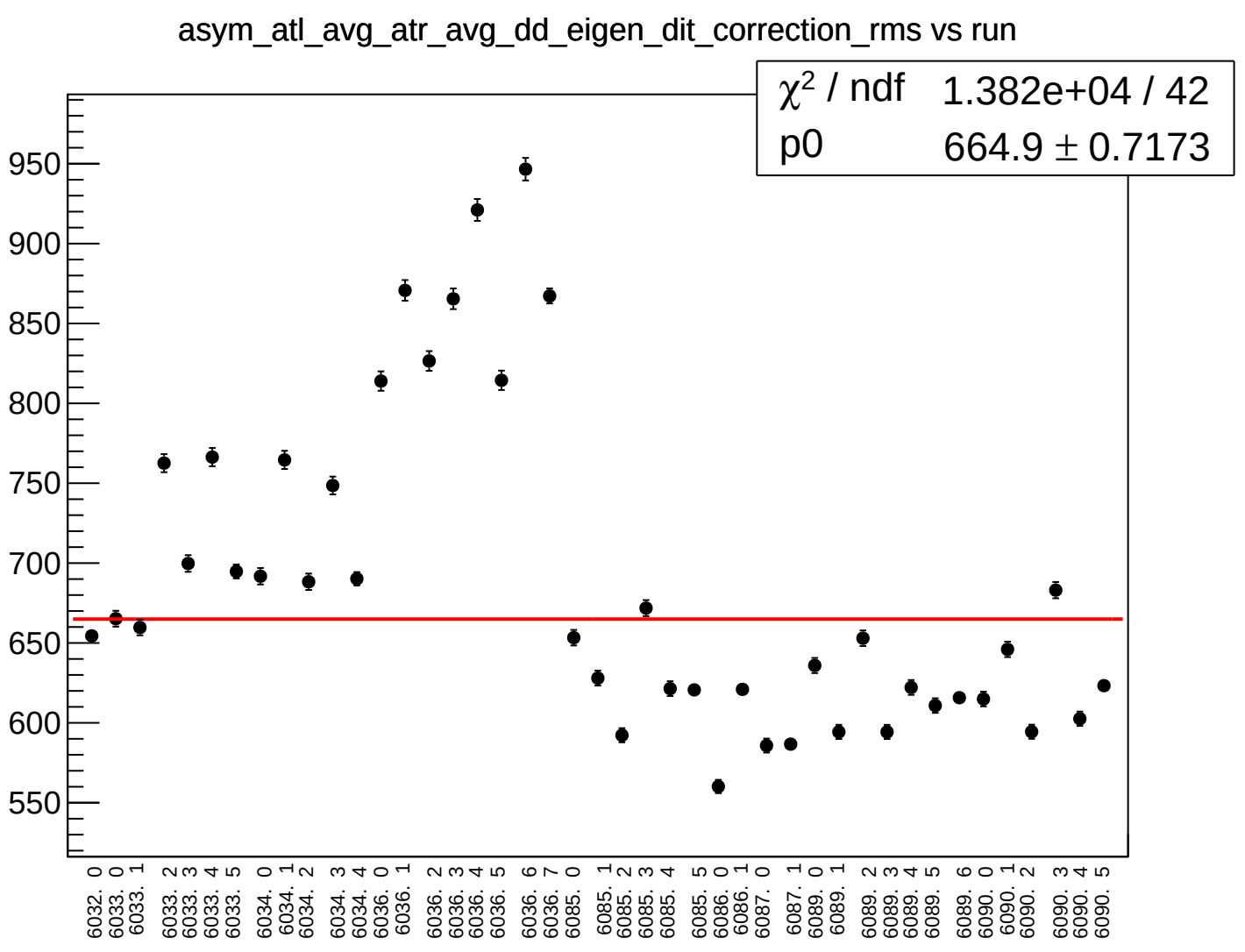

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.382e+04 / 42
p0 665 ± 0.7173
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

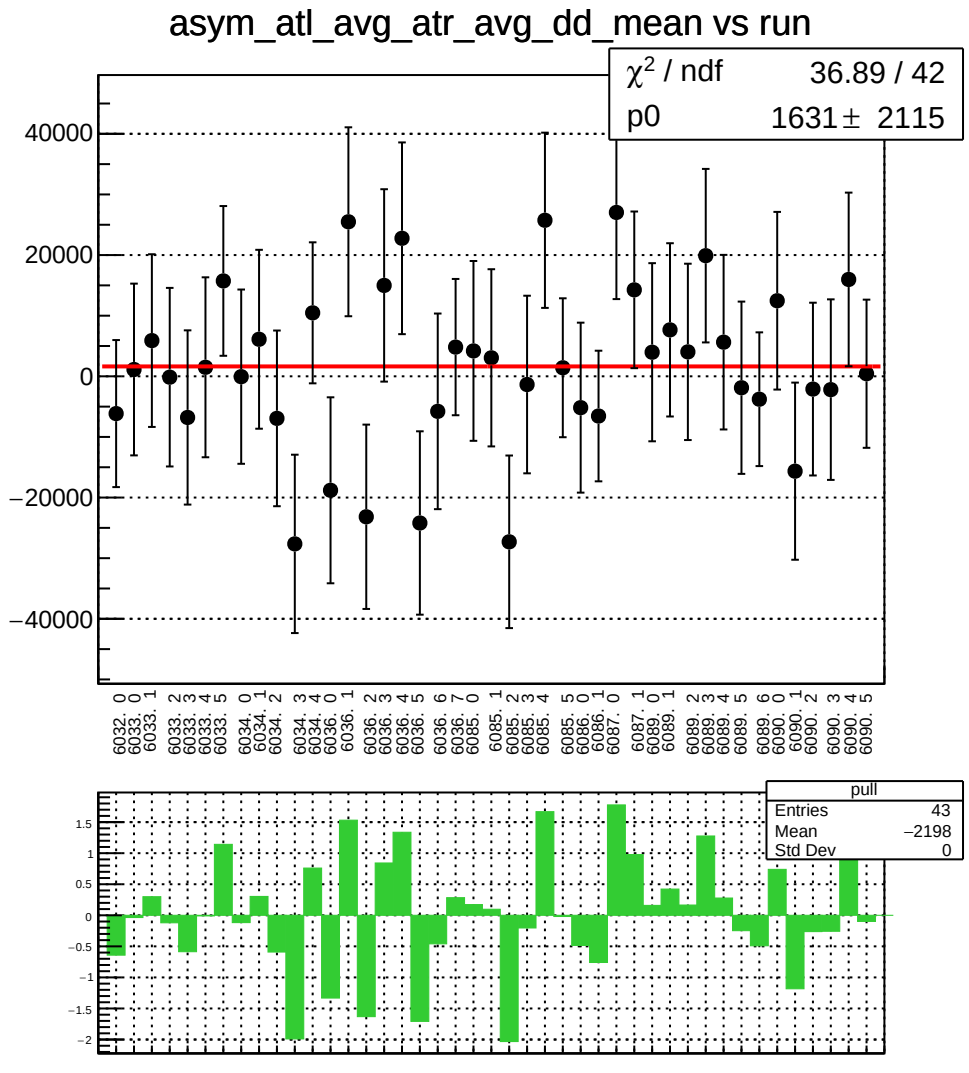

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 30.08 / 42
p0 2116 ± 1841
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 492.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.001398
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

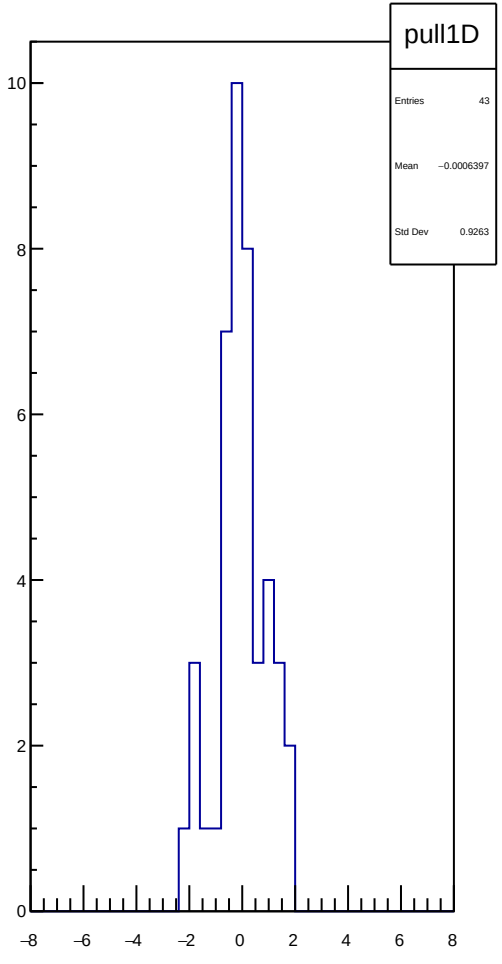

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1206 / 42
p0 1215 ± 1.302
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

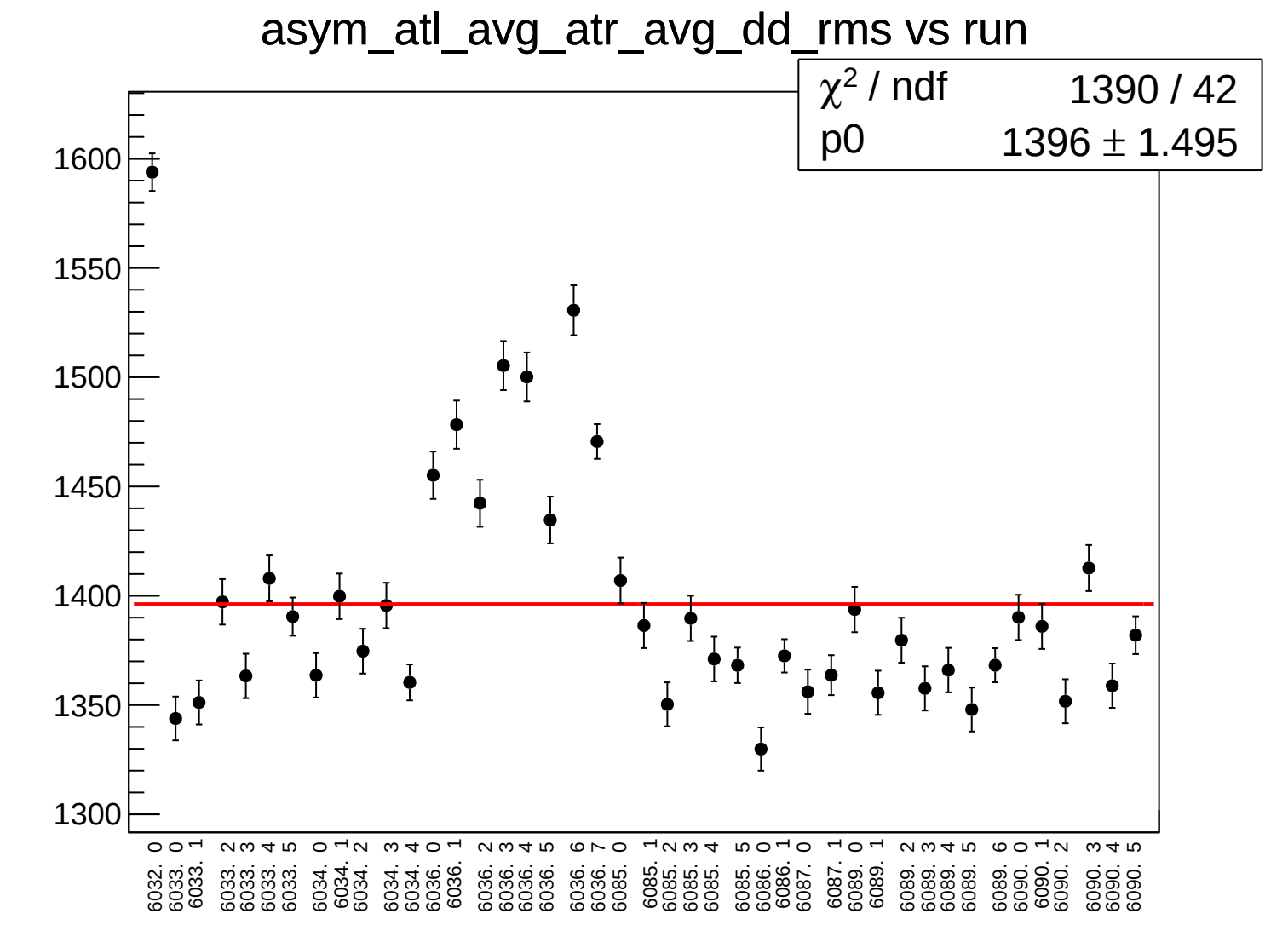

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.22 / 42
p0 −101.5 ± 1014
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.64
Std Dev 0
2
1
0
−1
−2

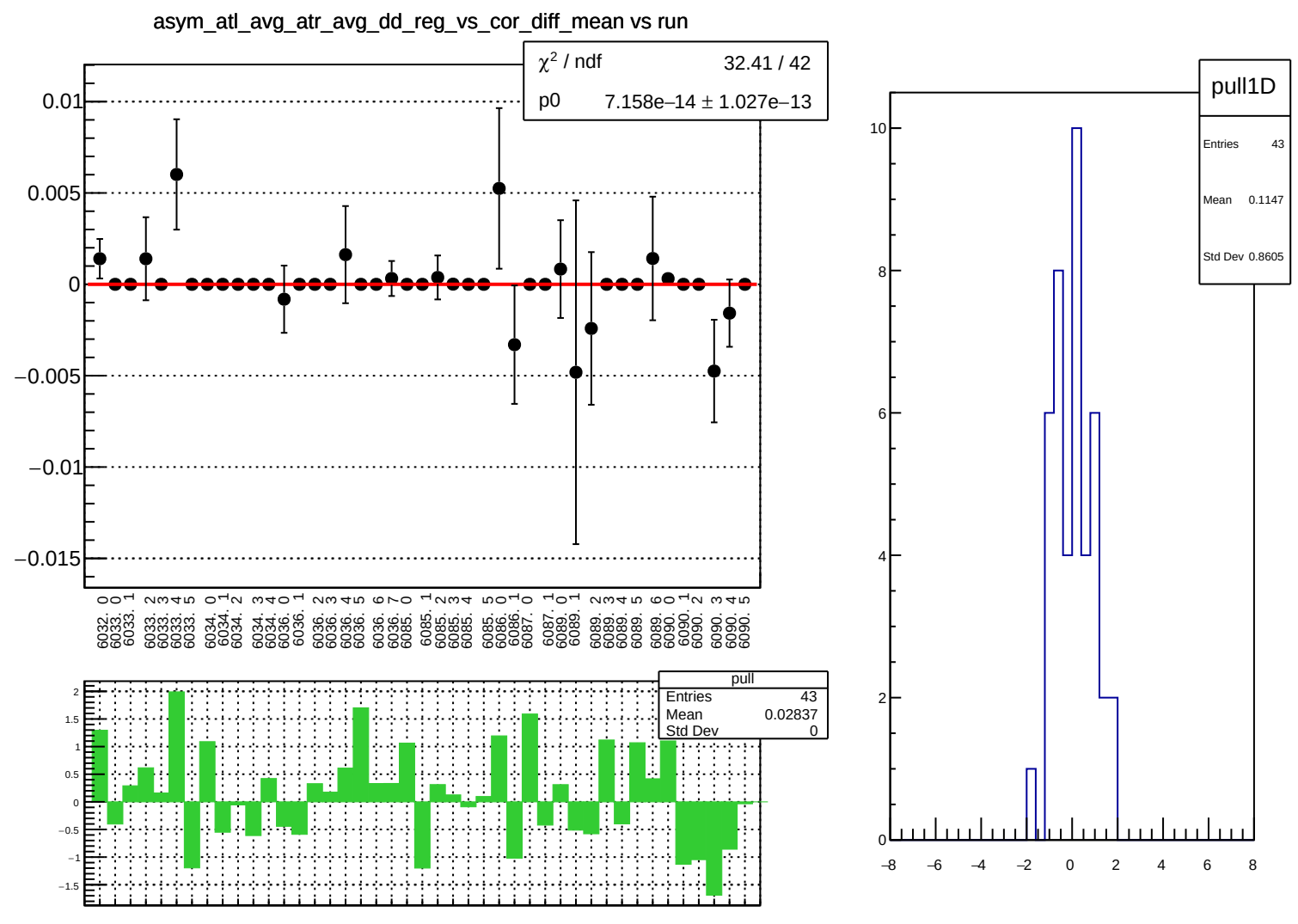

pull1D
Entries 43
Mean 0.04478
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

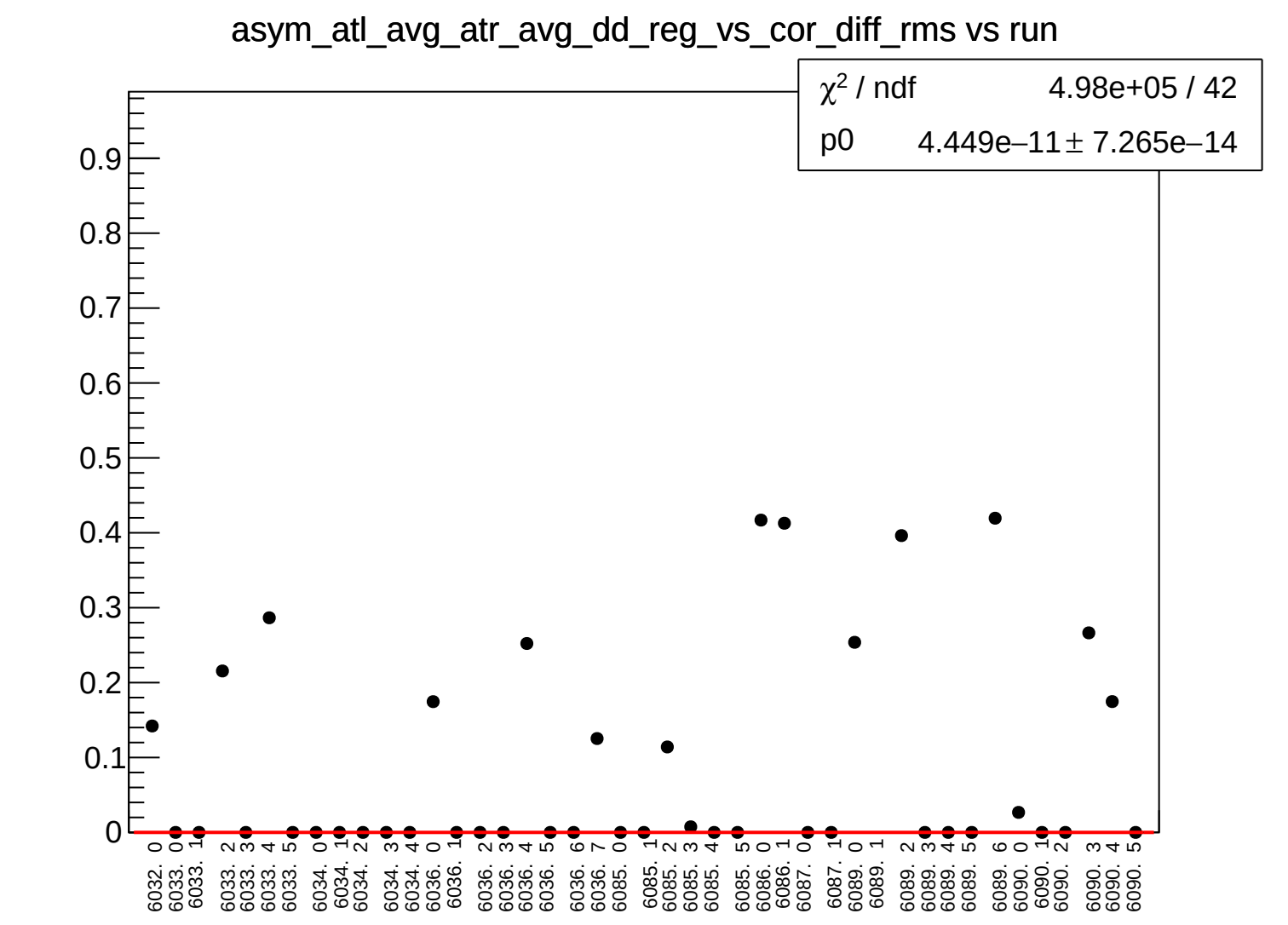

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.382e+04 / 42
p0 664.9 ± 0.7173
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 36.89 / 42
p0 1631 ± 2115
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2198
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

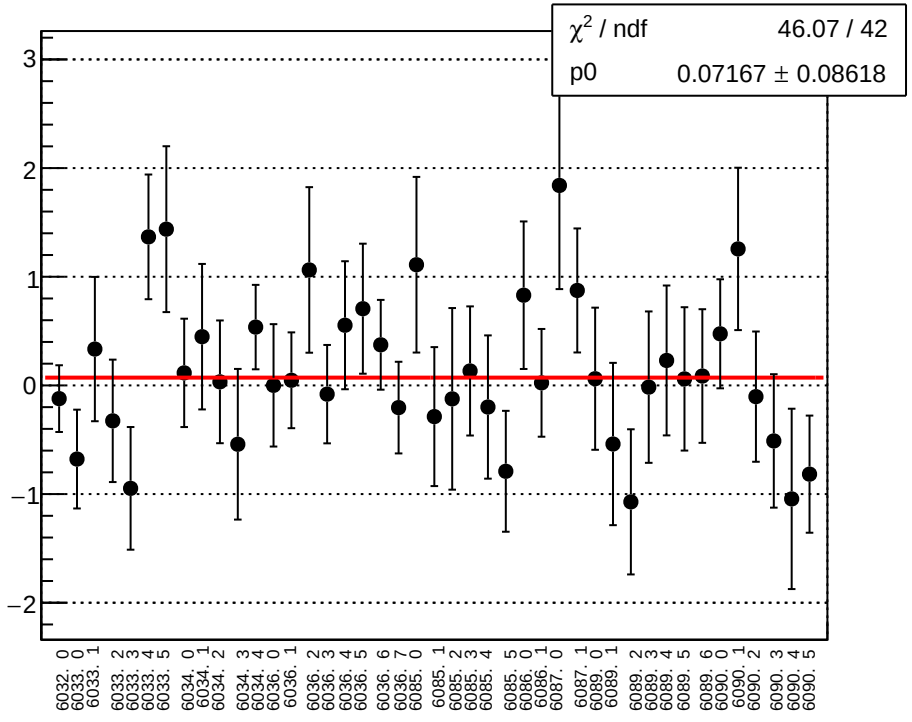

pull1D
Entries 43
Mean −0.0006397
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

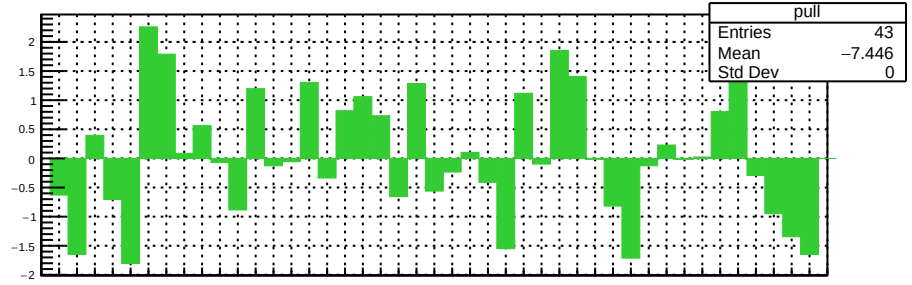

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1390 / 42
p0 1396 ± 1.495
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

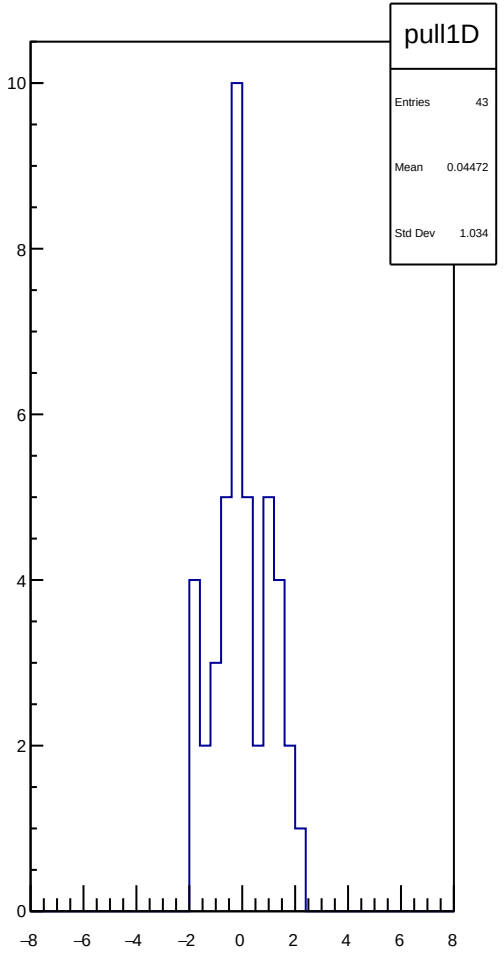

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.41 / 42
p0 7.158e−14 ± 1.027e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.02837
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1147
Std Dev 0.8605
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

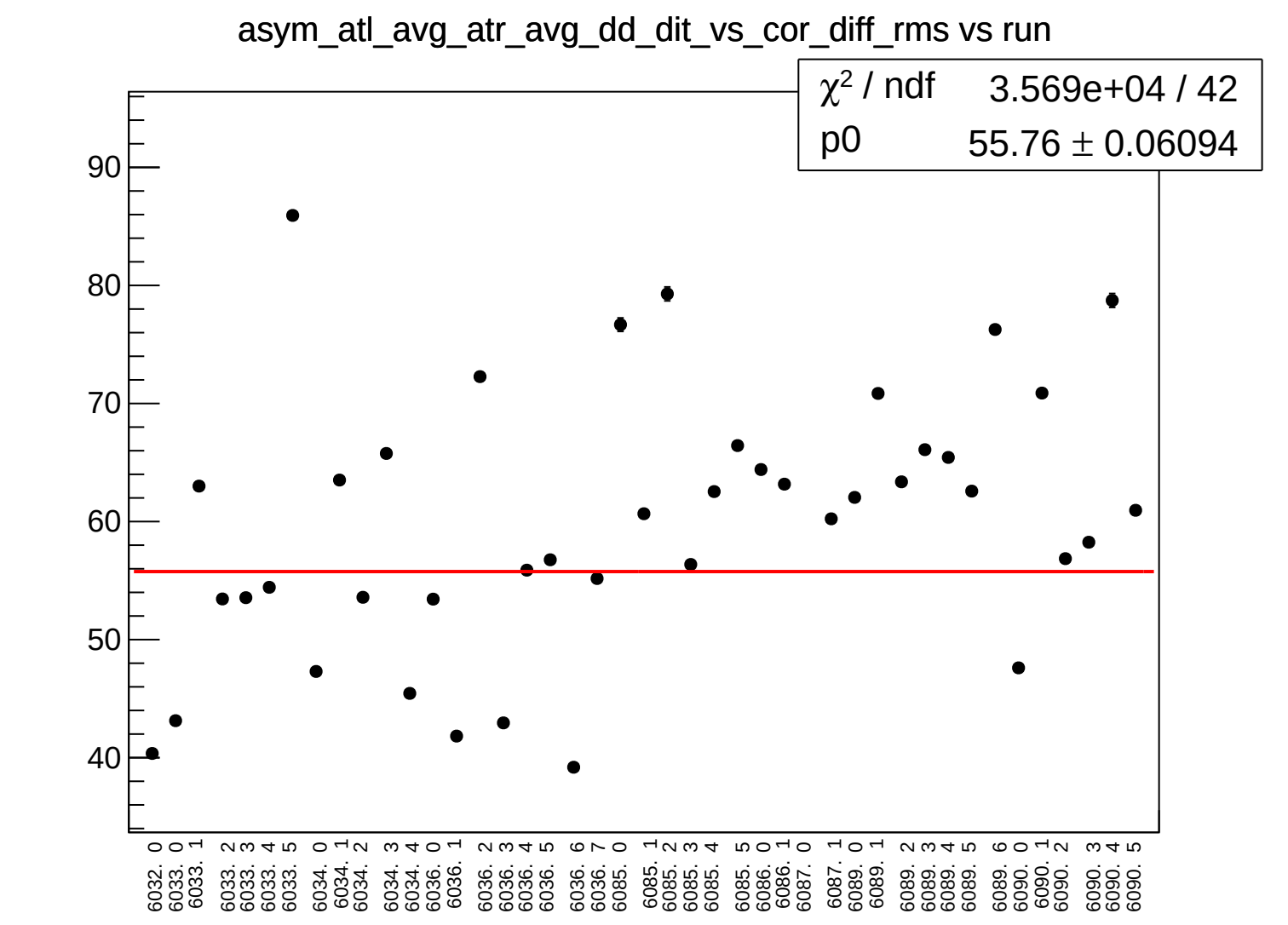

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.98e+05 / 42
p0 4.449e−11 ± 7.265e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

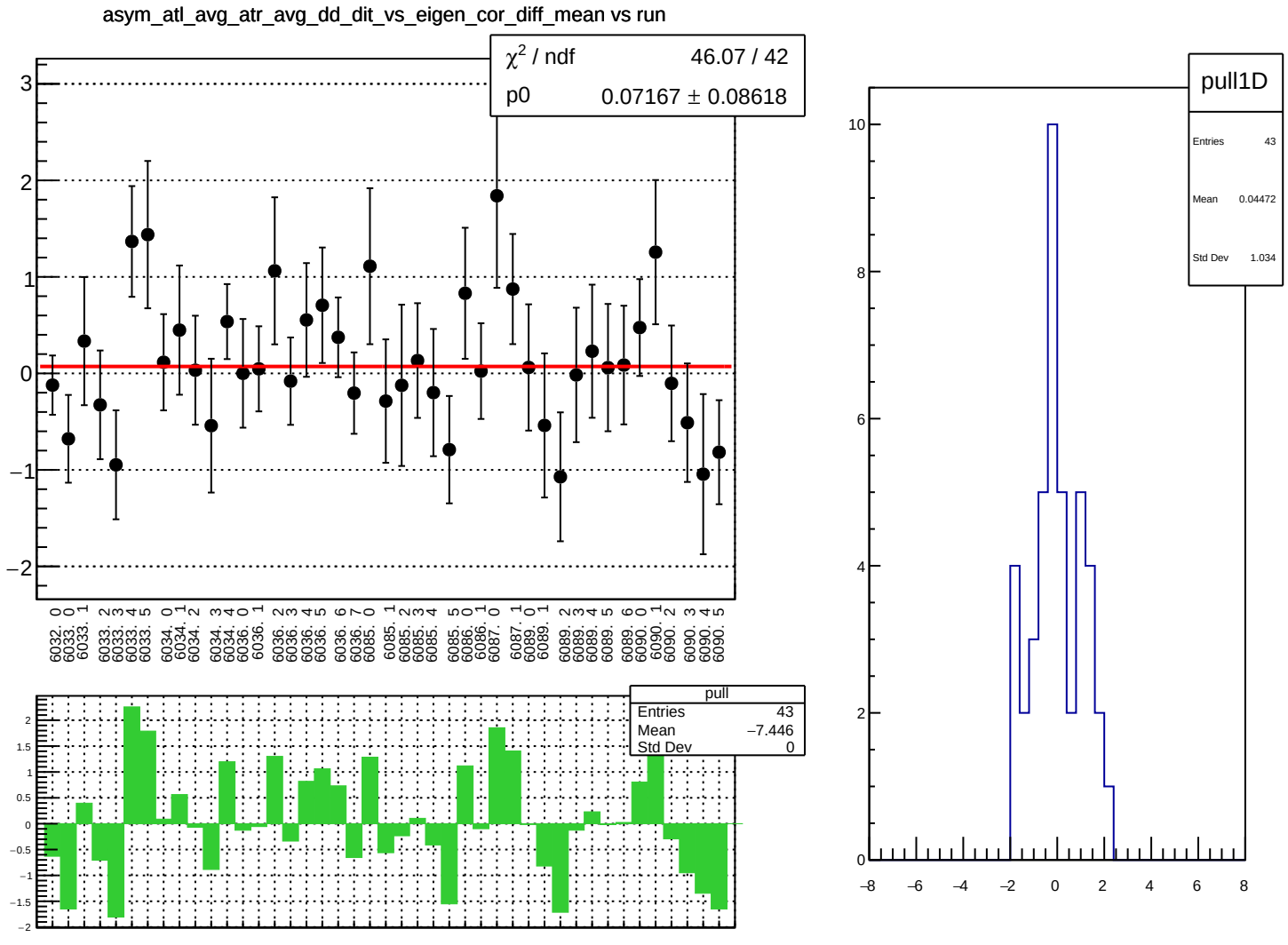
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run

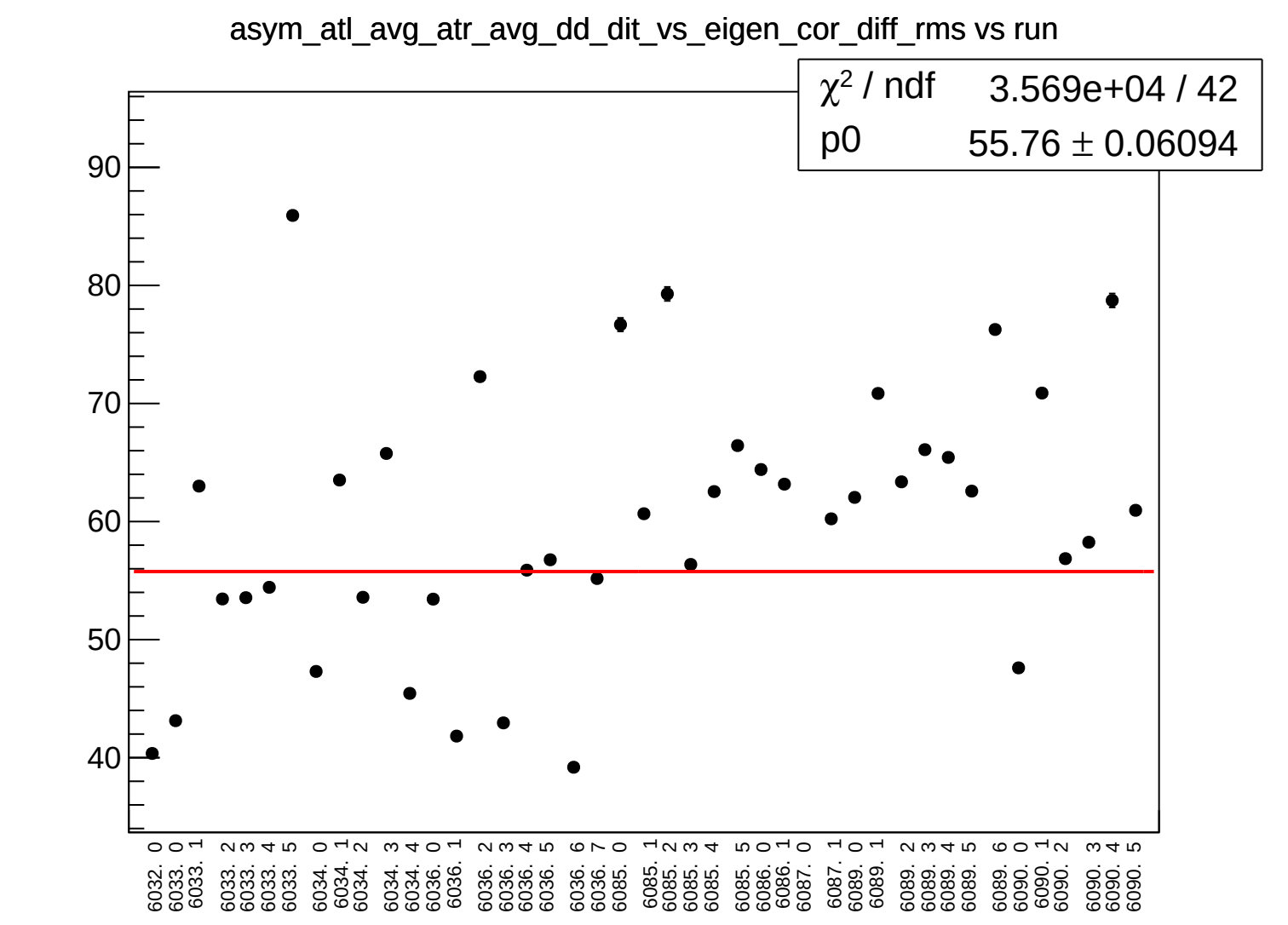


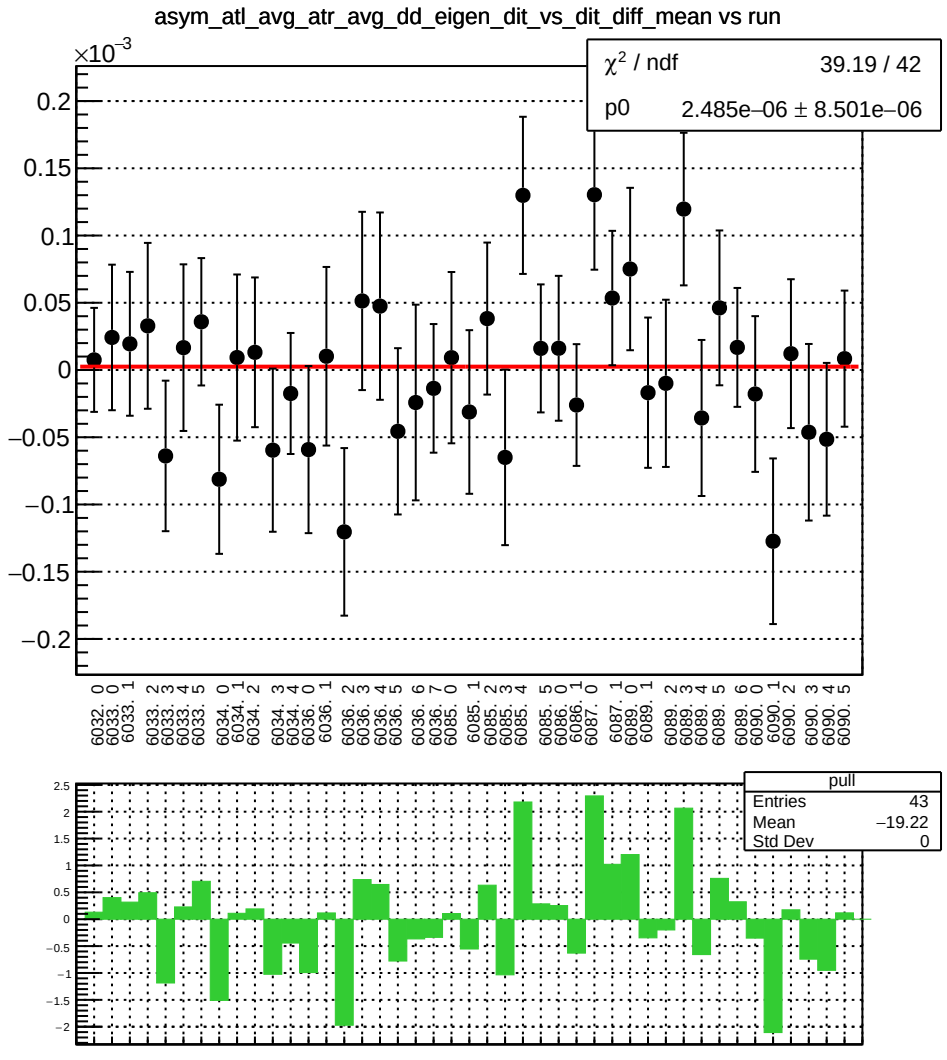


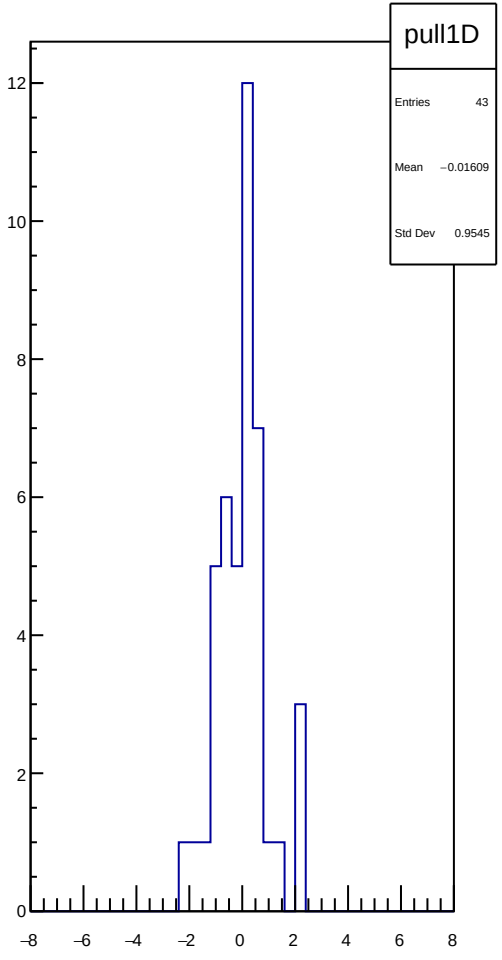


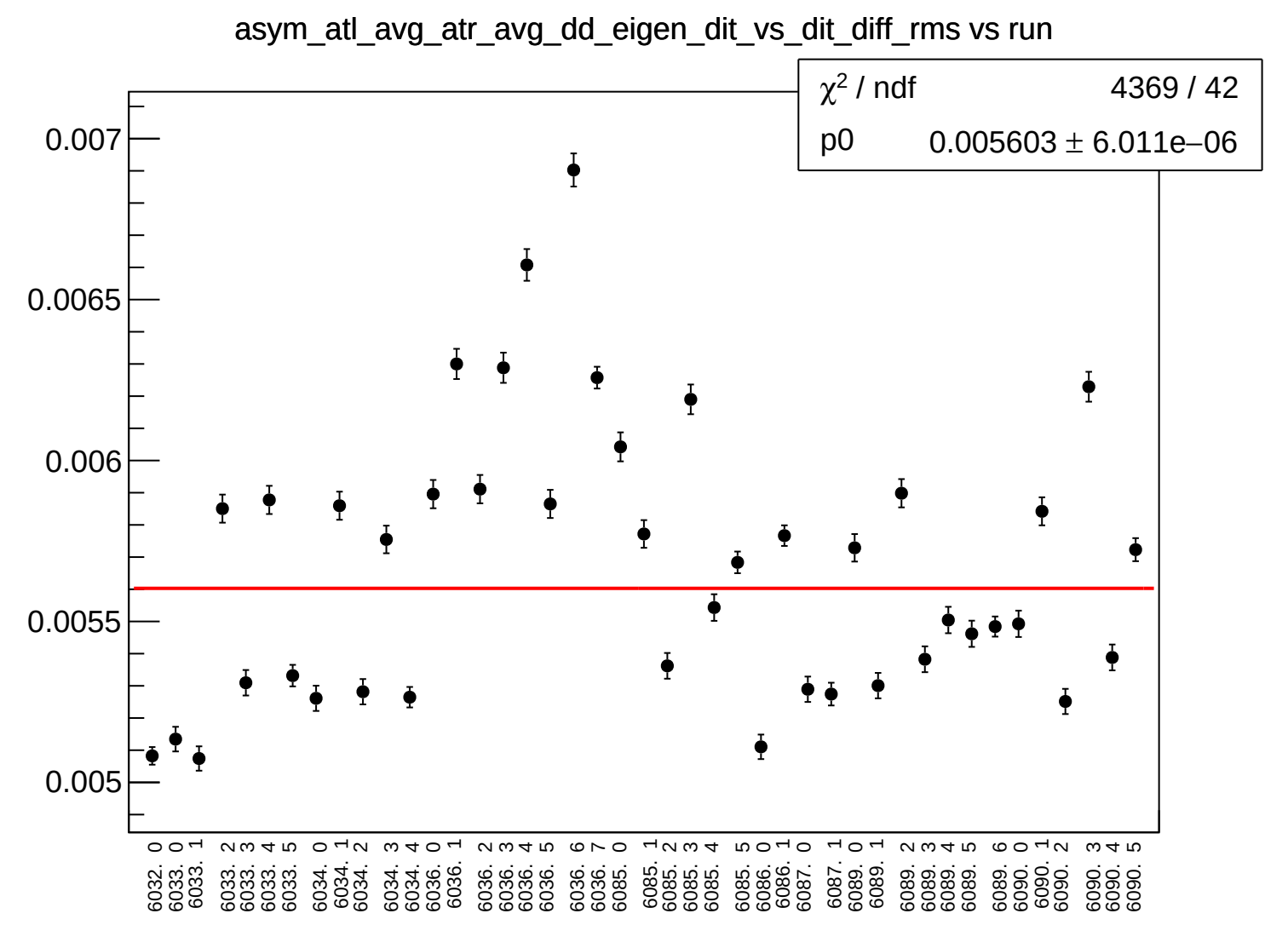

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

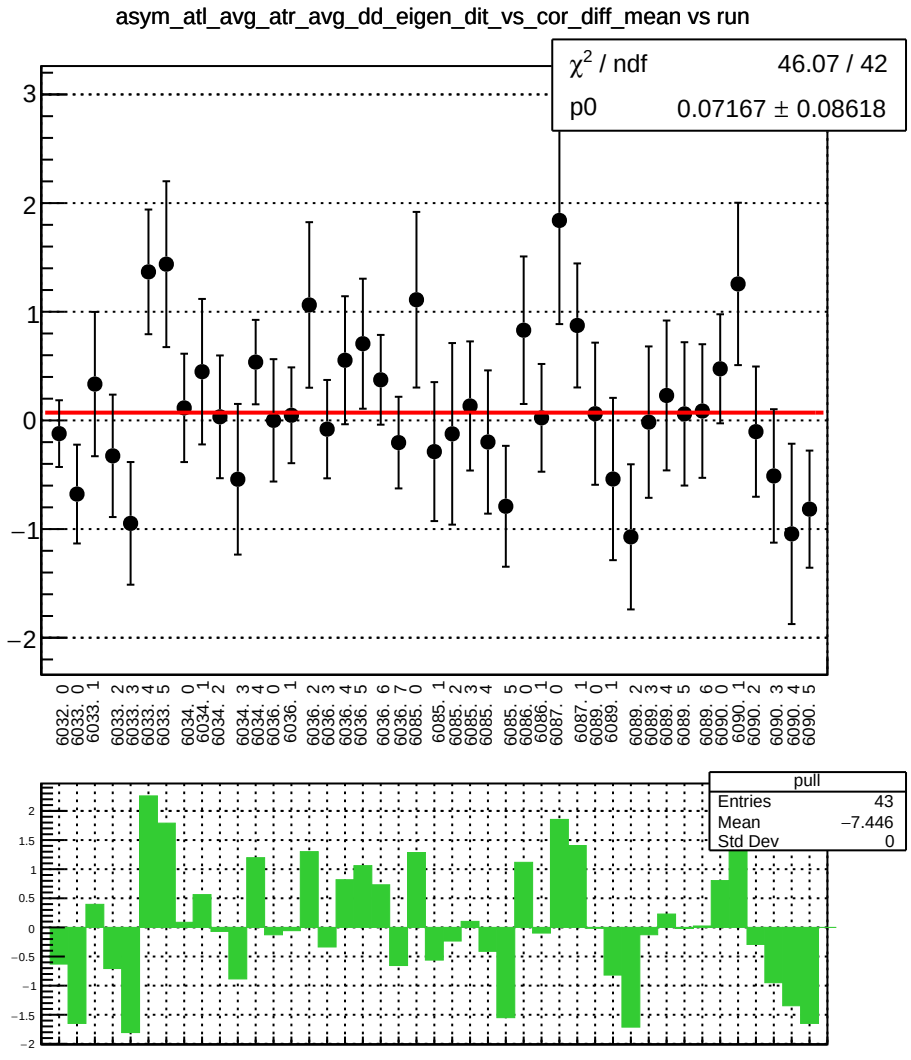

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0
pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

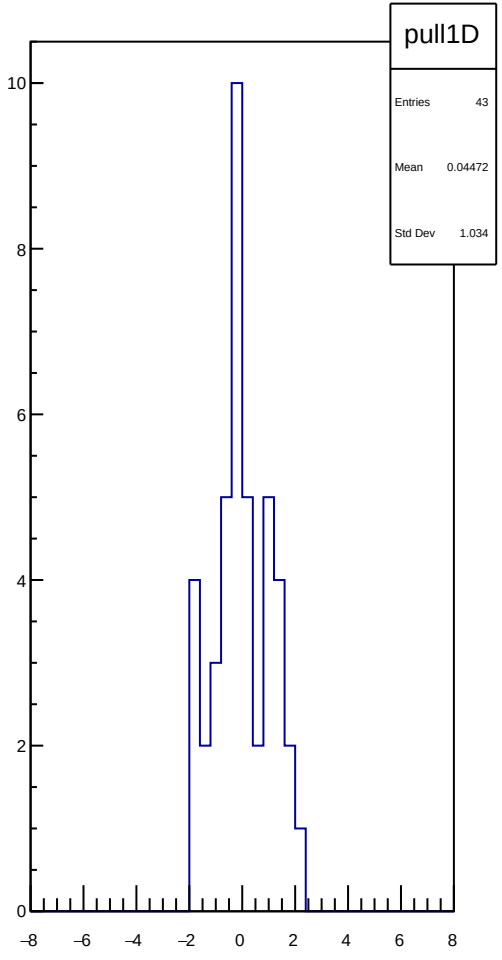

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

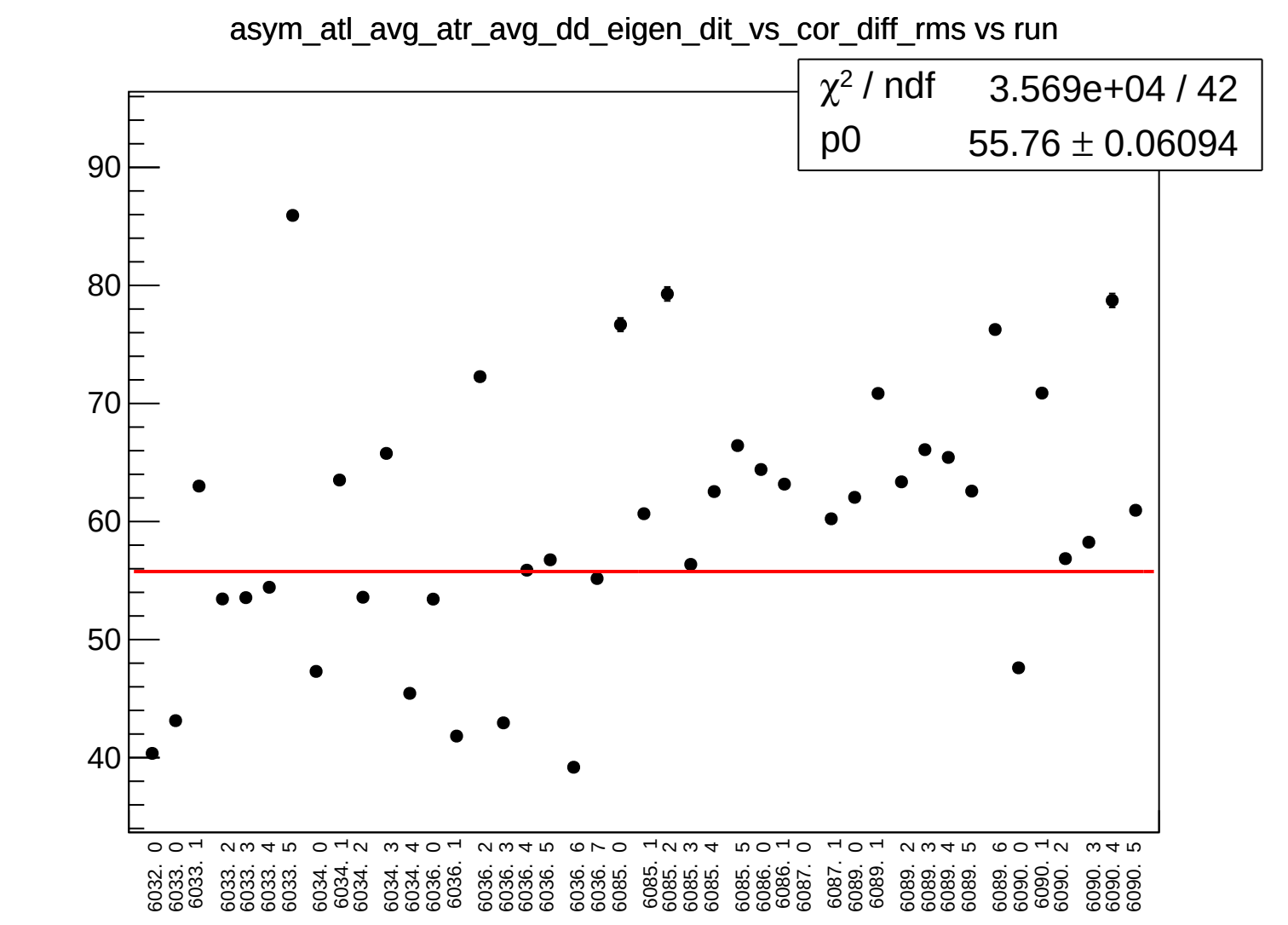

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.19 / 42
p0 2.485e−06 ± 8.501e−06
pull
Entries 43
Mean −19.22
Std Dev 0

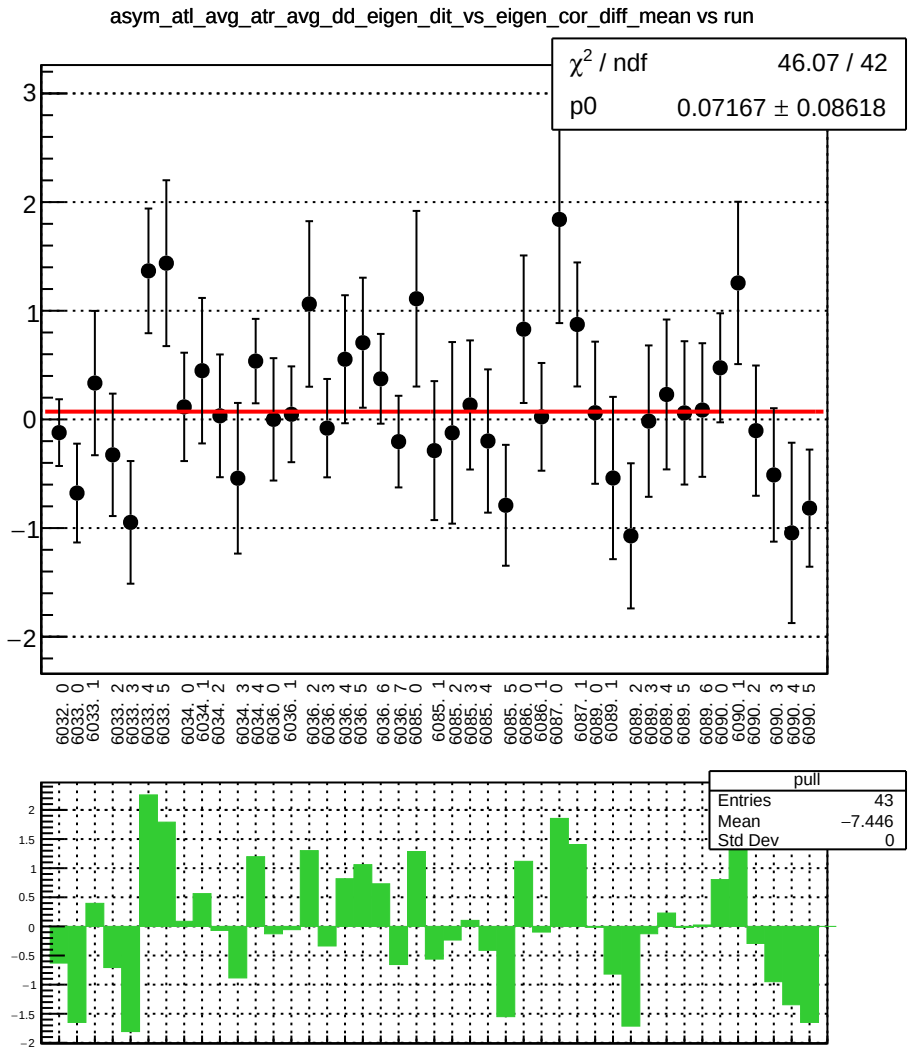

pull1D
Entries 43
Mean −0.01609
Std Dev 0.9545

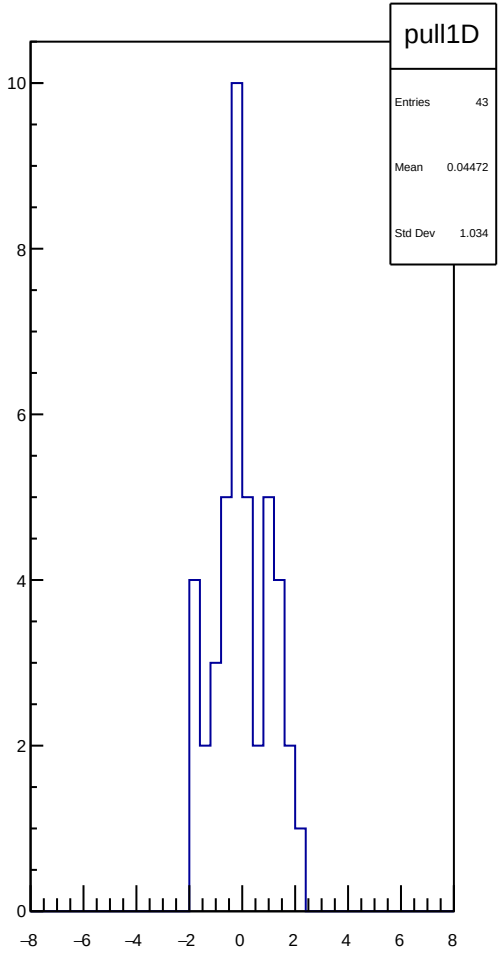

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4369 / 42
p0 0.005603 ± 6.011e−06
0.007
0.0065
0.006
0.0055
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

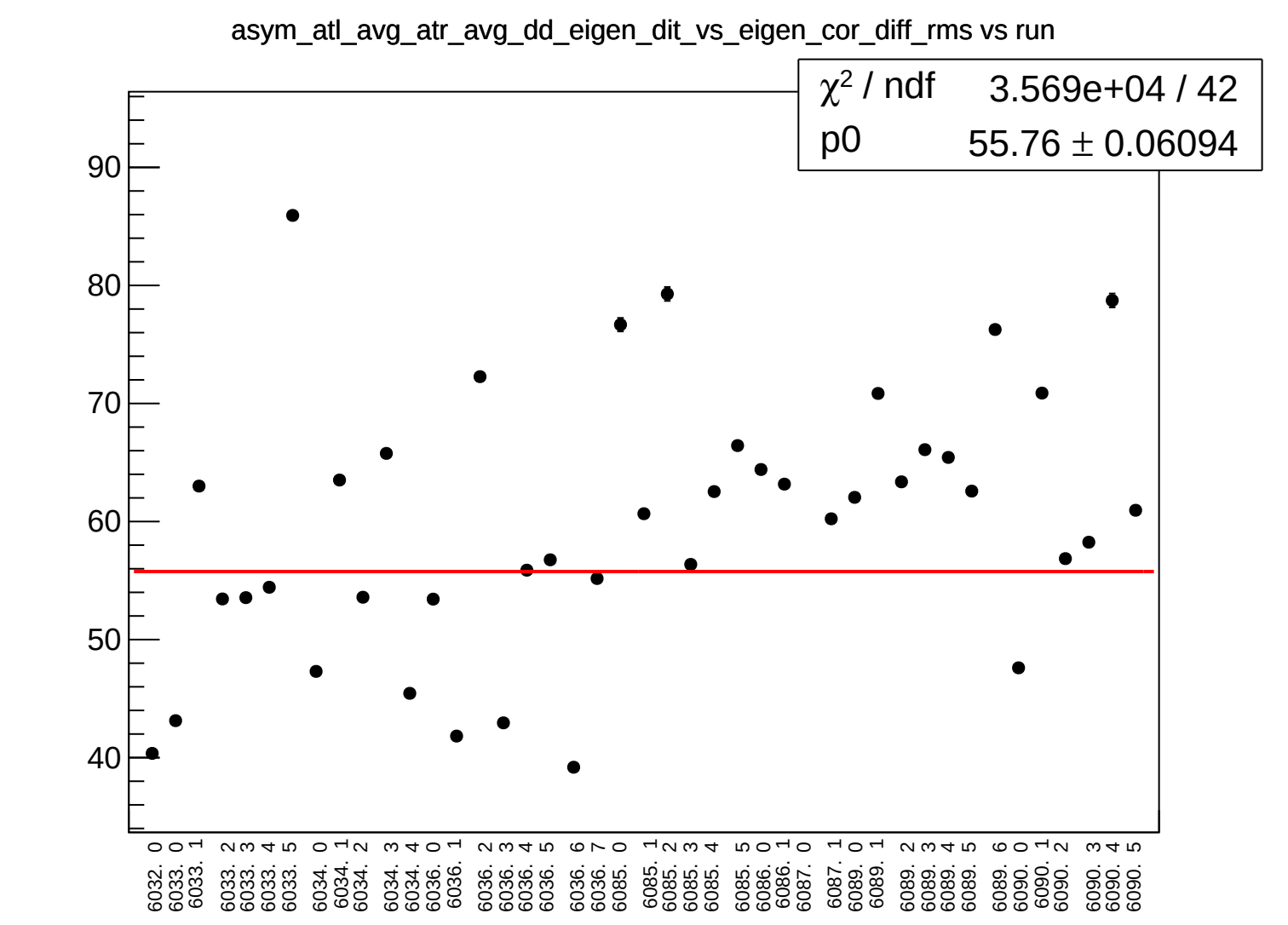

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0

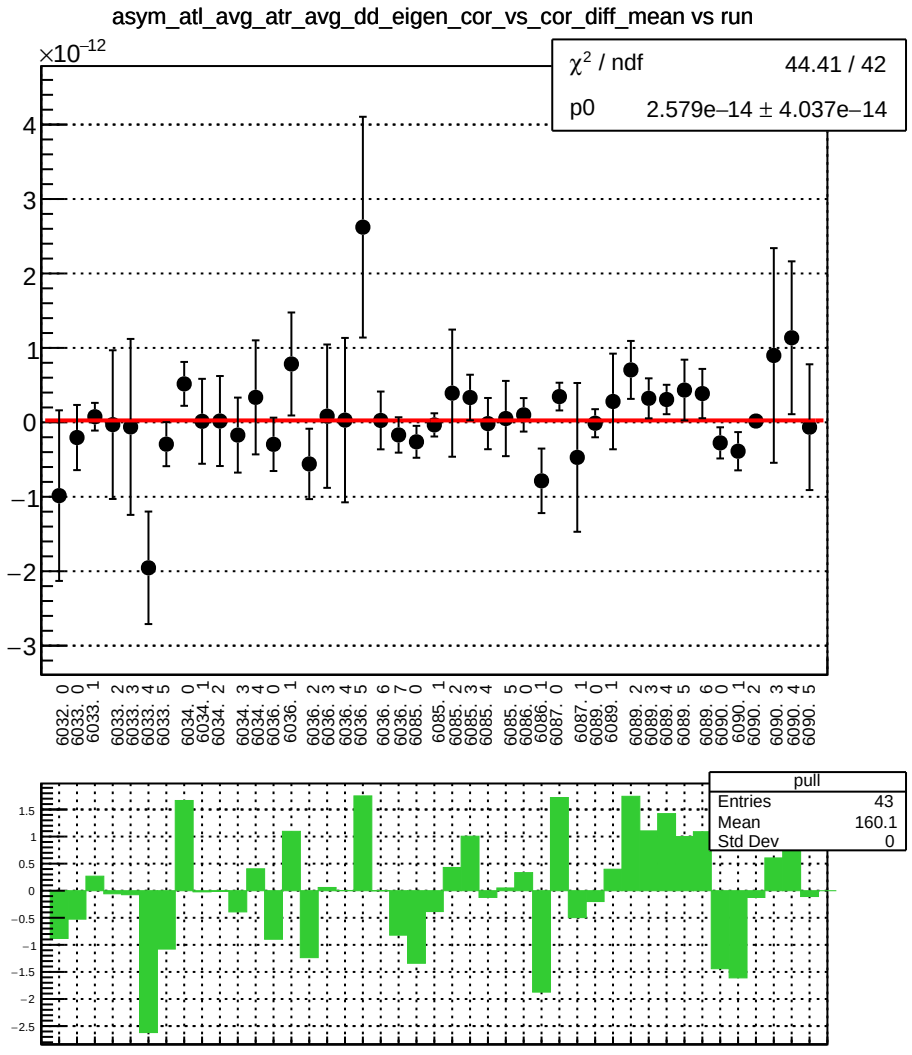

pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

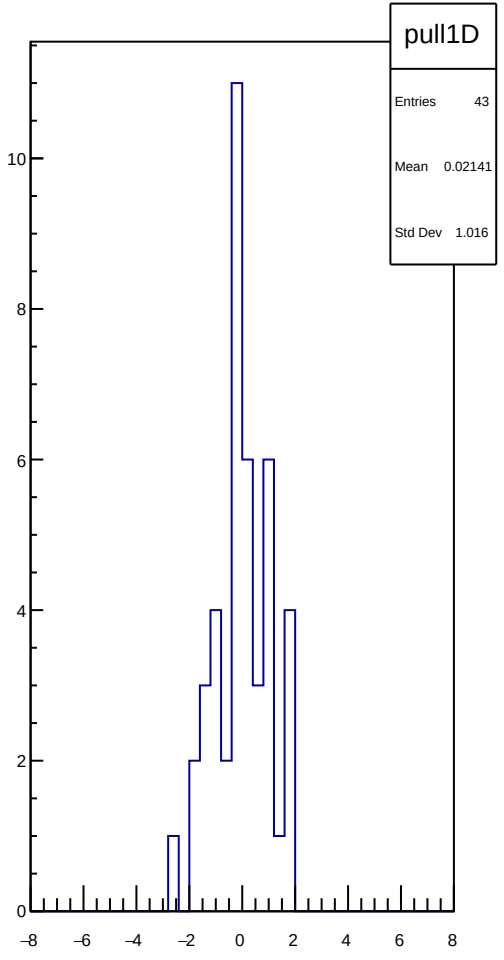

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

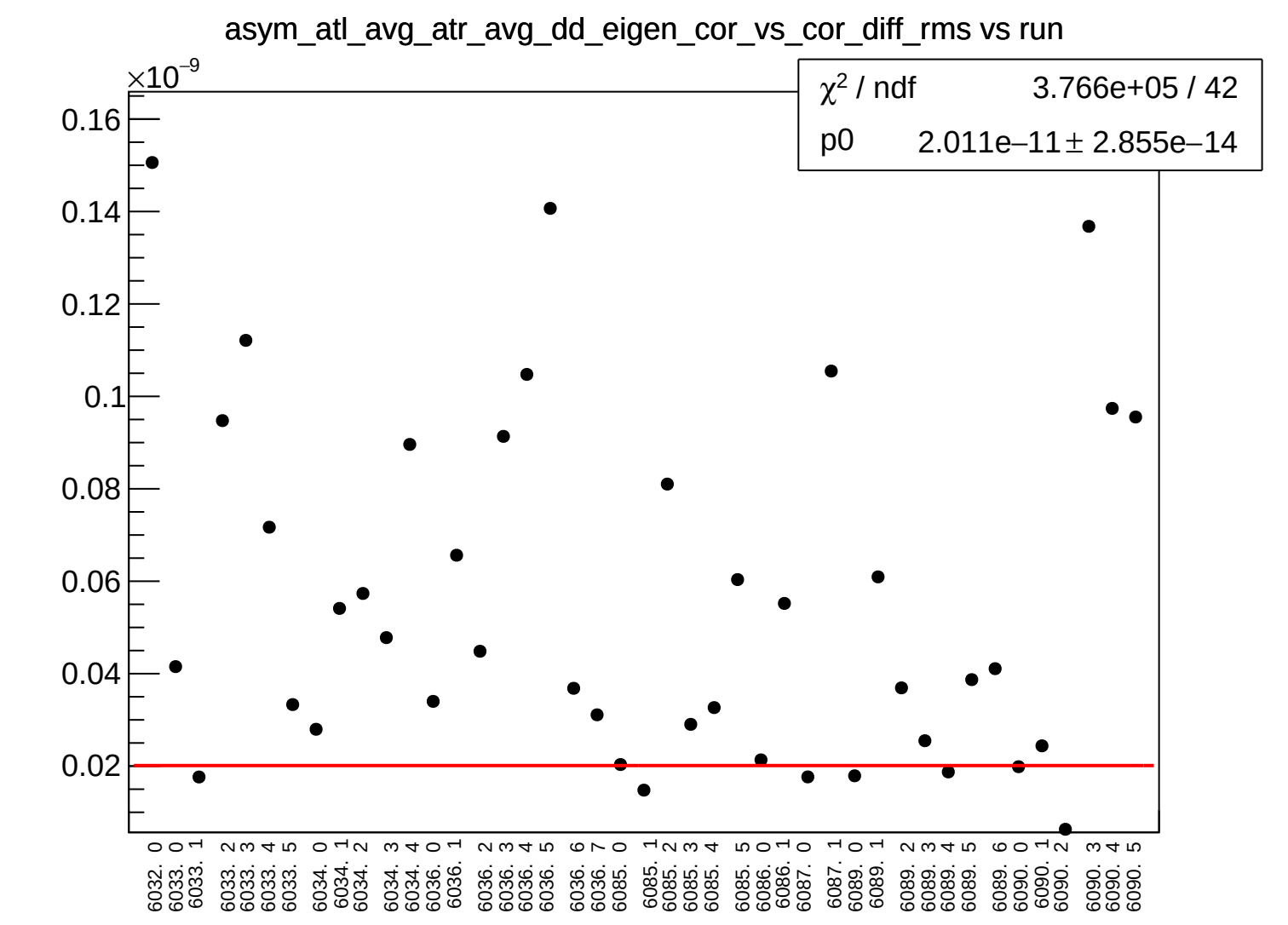

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0

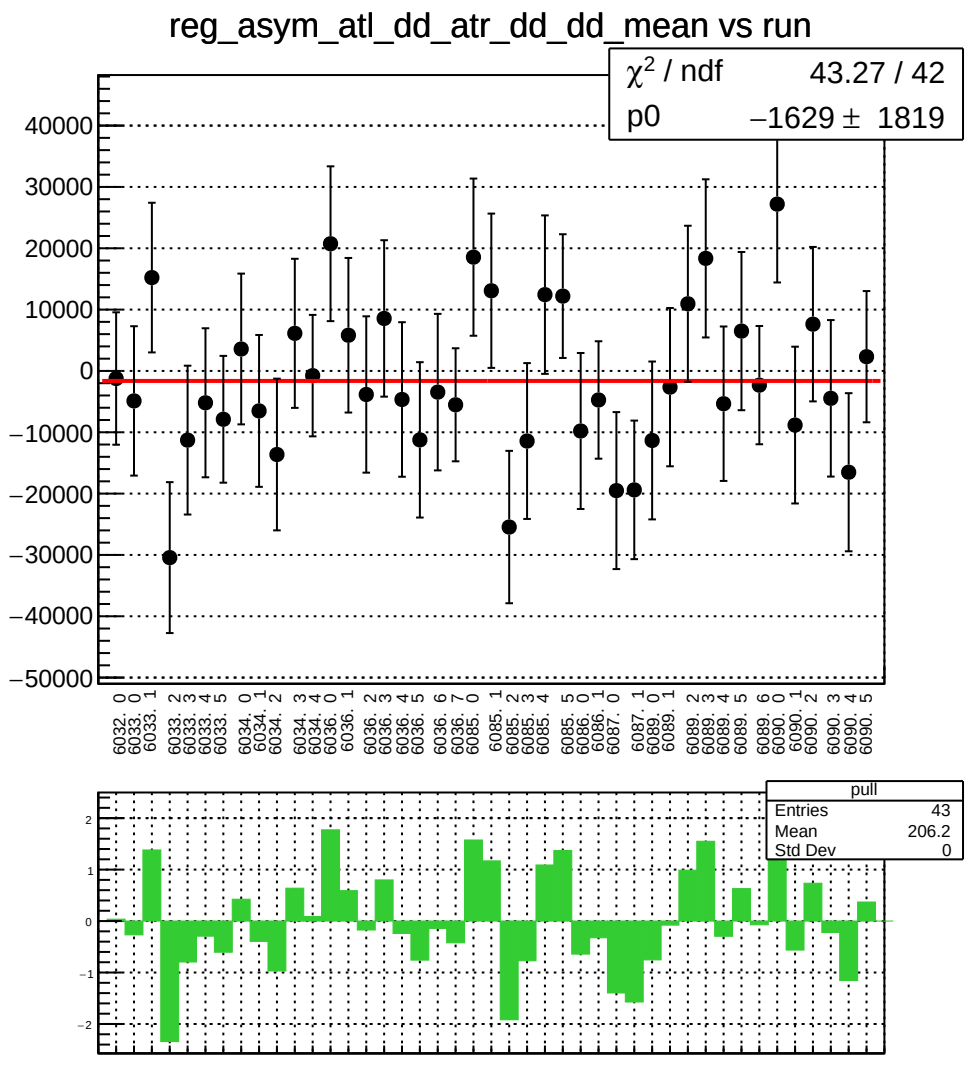

pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

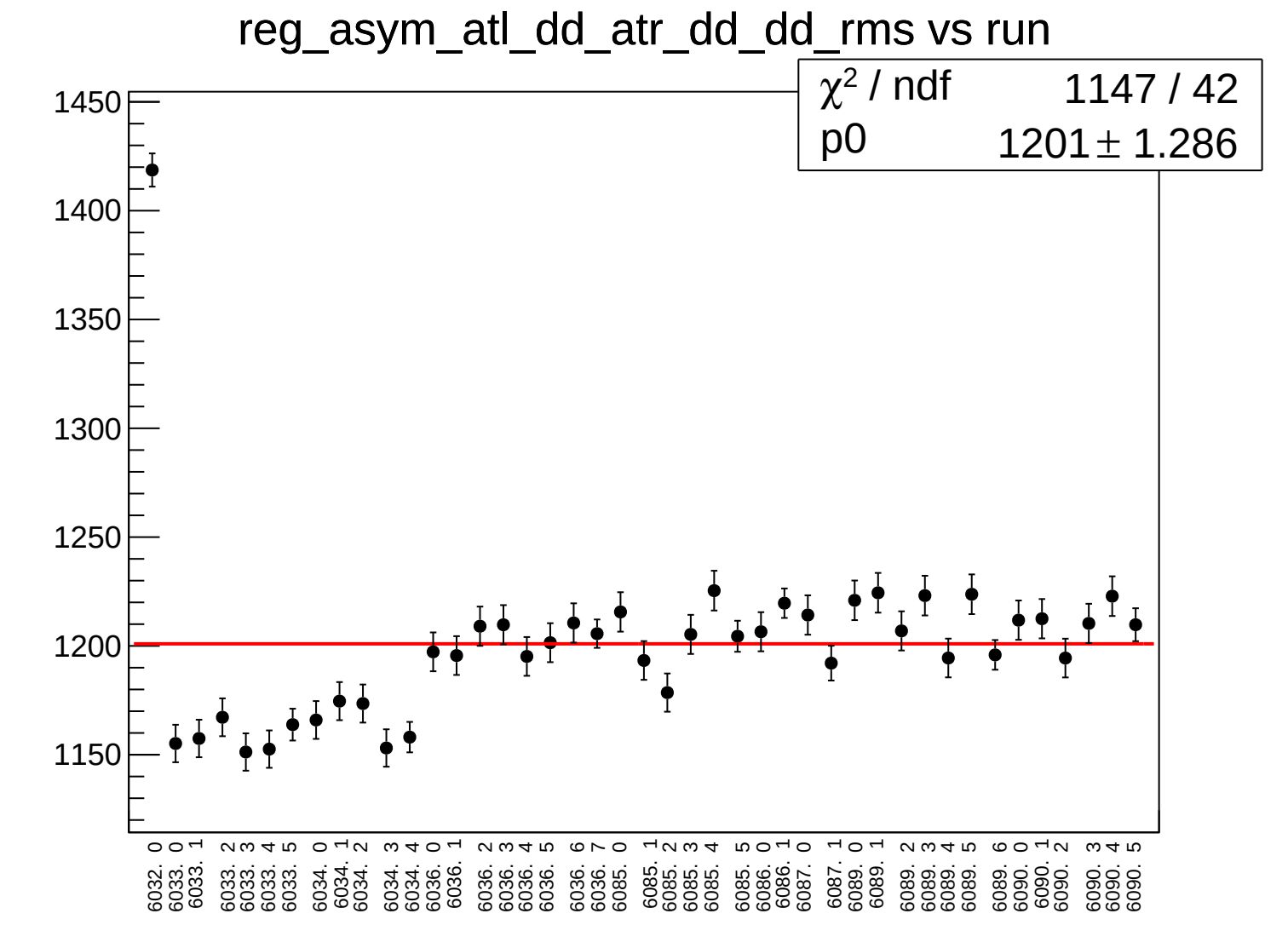

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

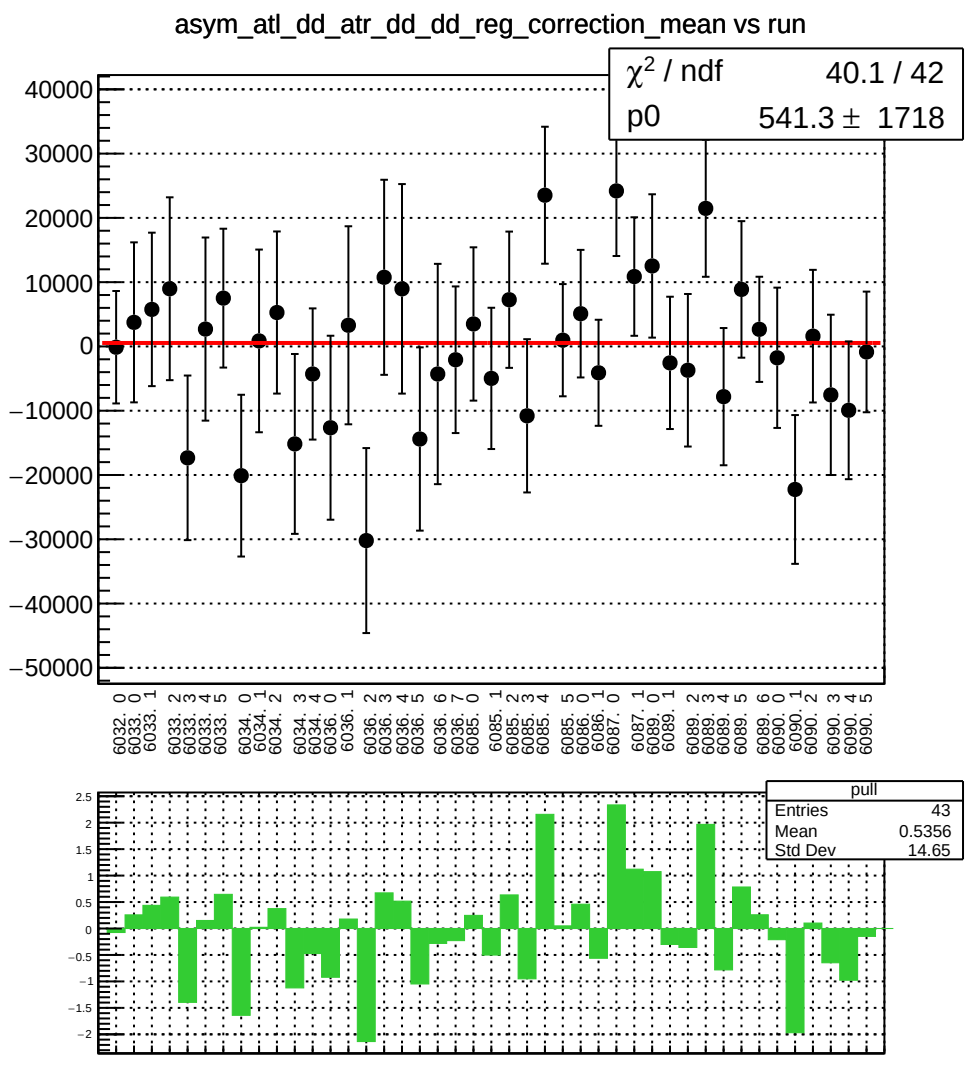

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.41 / 42
p0 2.579e−14 ± 4.037e−14
pull
Entries 43
Mean 160.1
Std Dev 0

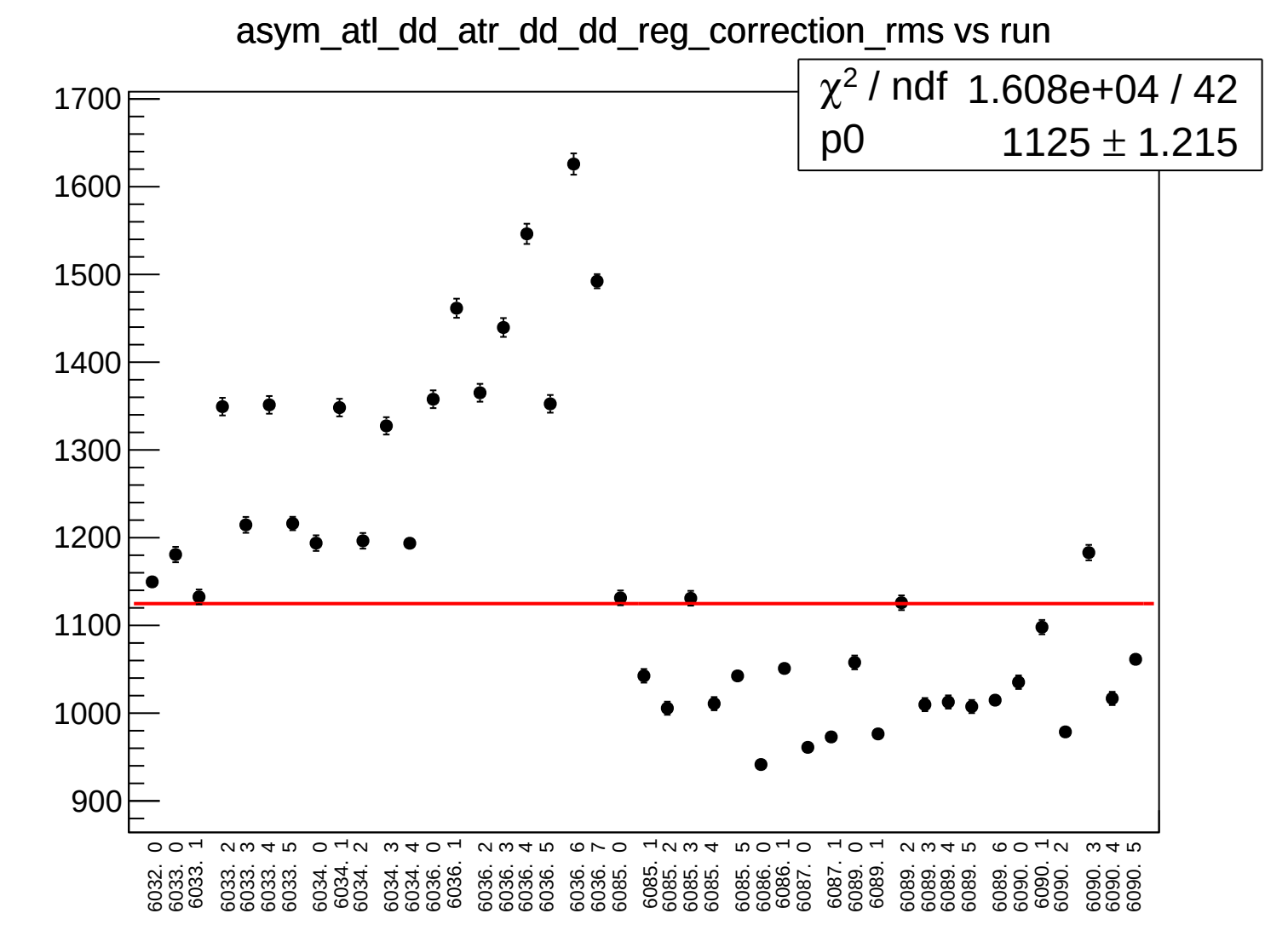

pull1D
Entries 43
Mean 0.02141
Std Dev 1.016

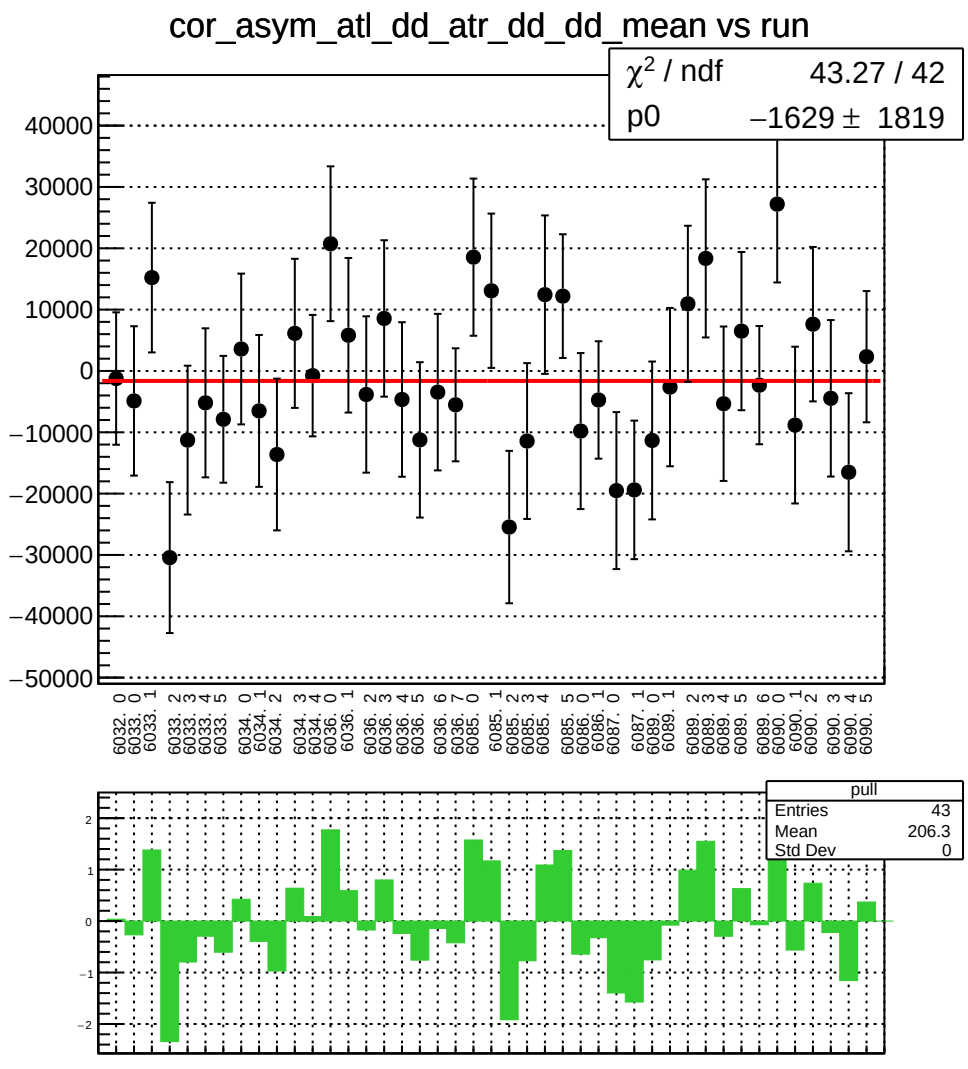

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.766e+05 / 42
p0 2.011e−11 ± 2.855e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

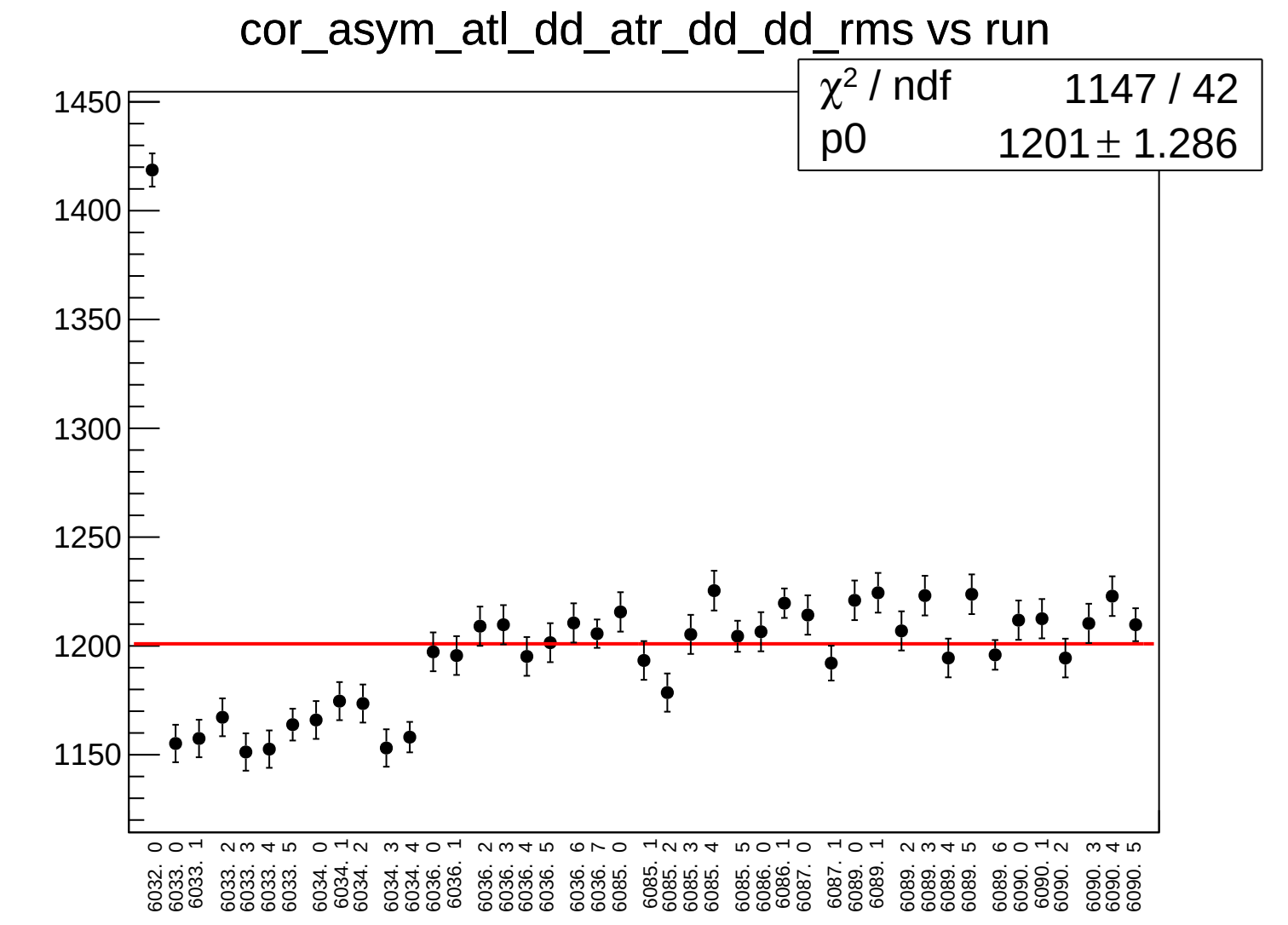

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 43.27 / 42
p0 −1629 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006824
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

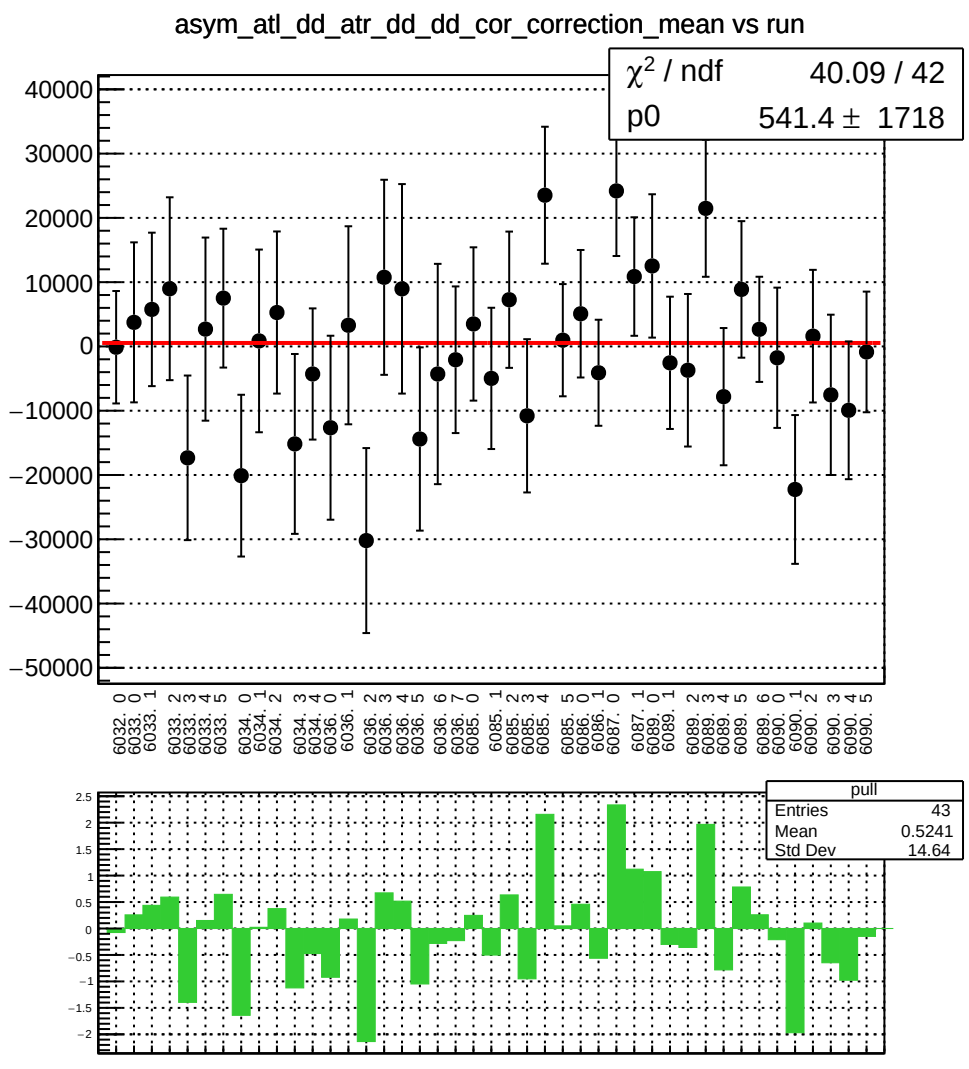

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1147 / 42
p0 1201 ± 1.286
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

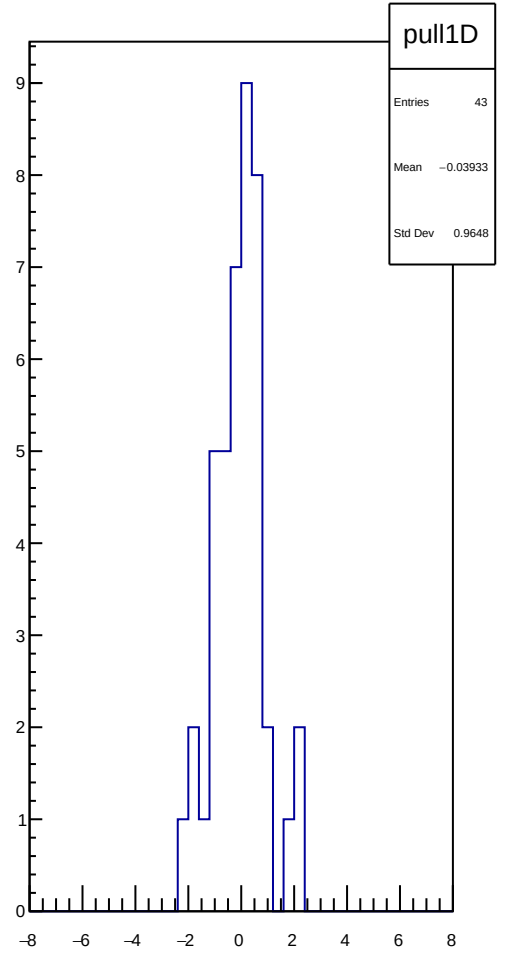

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 40.1 / 42
p0 541.3 ± 1718
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.5356
Std Dev 14.65
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03933
Std Dev 0.9648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

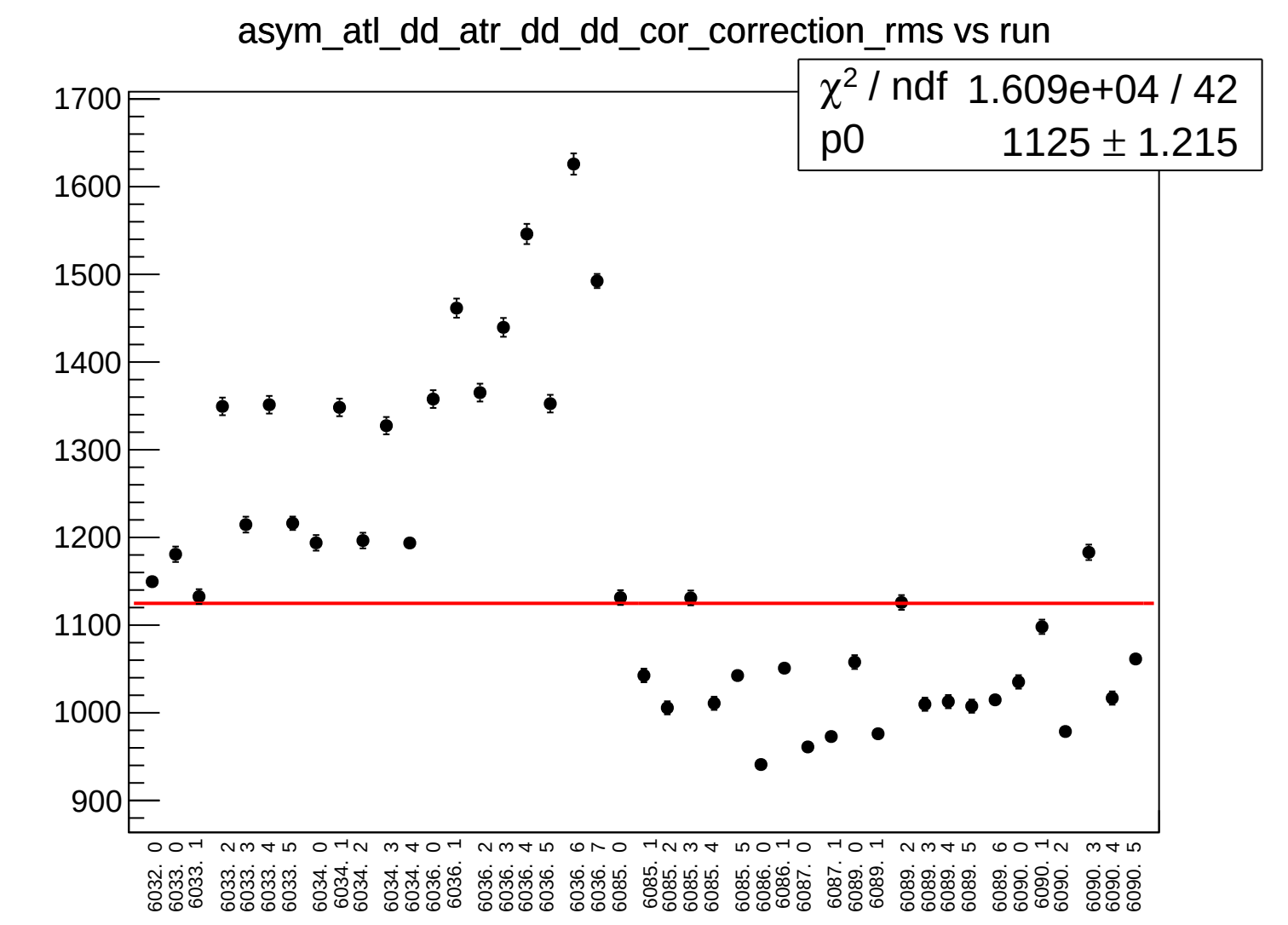

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.608e+04 / 42
p0 1125 ± 1.215
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

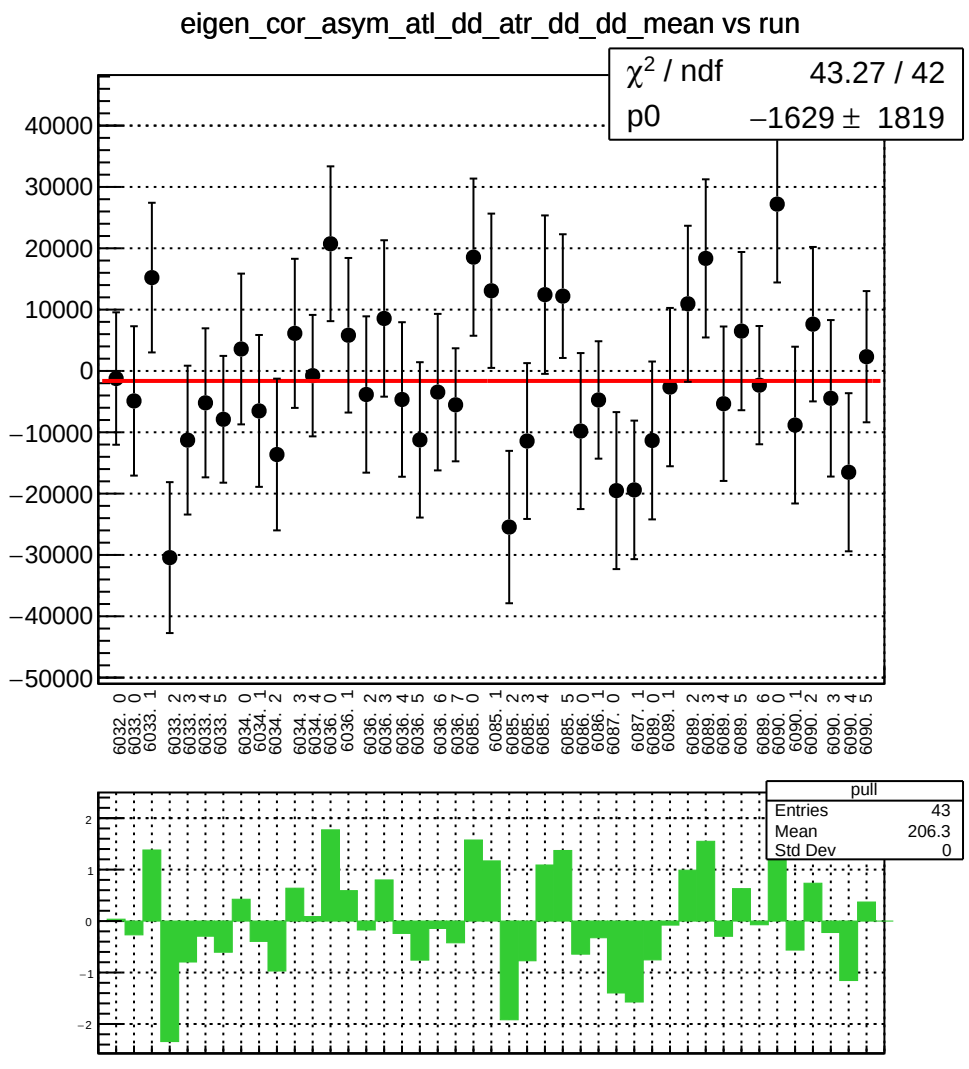

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 43.27 / 42
p0 −1629 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006824
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

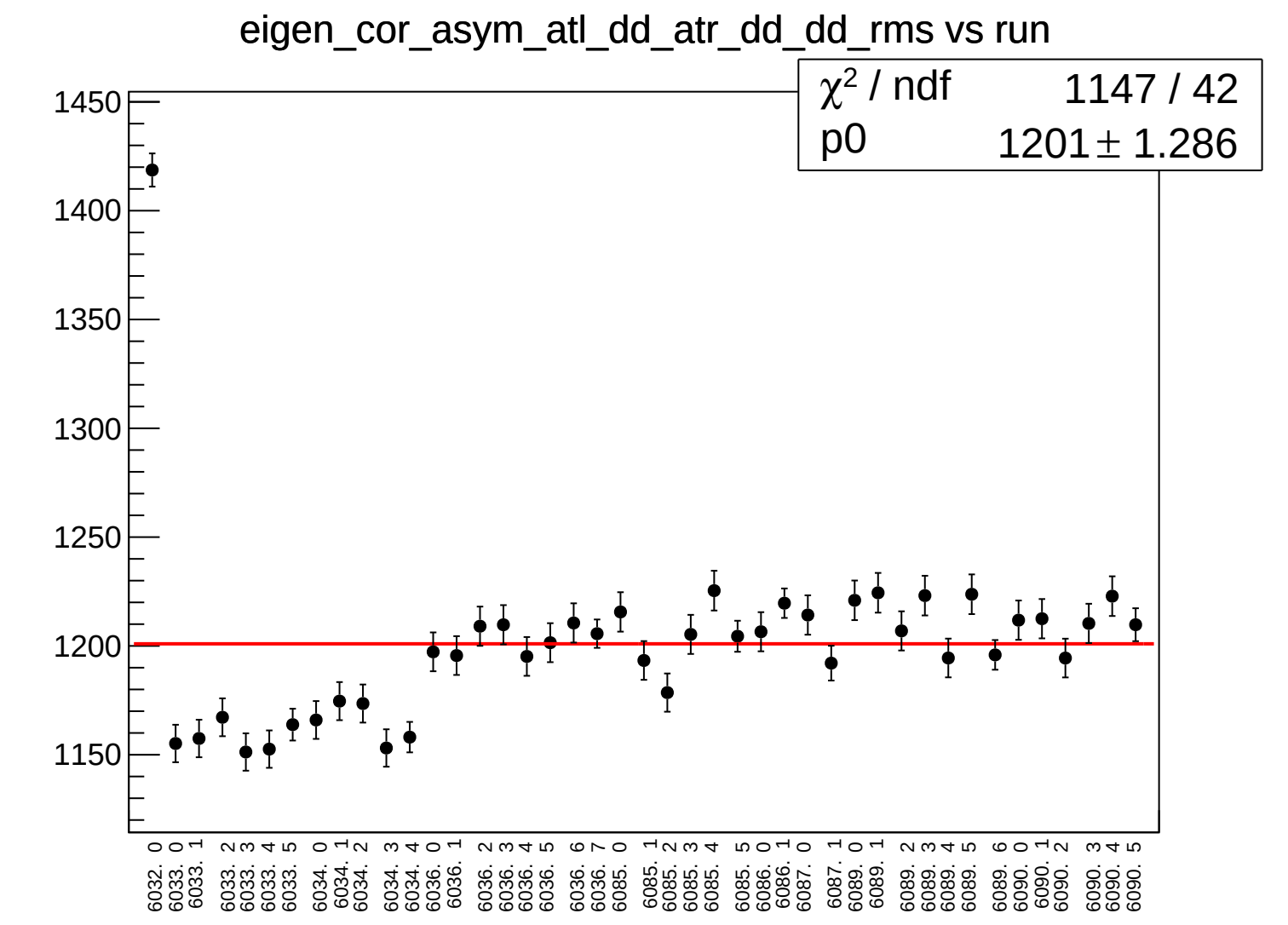

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1147 / 42
p0 1201 ± 1.286
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

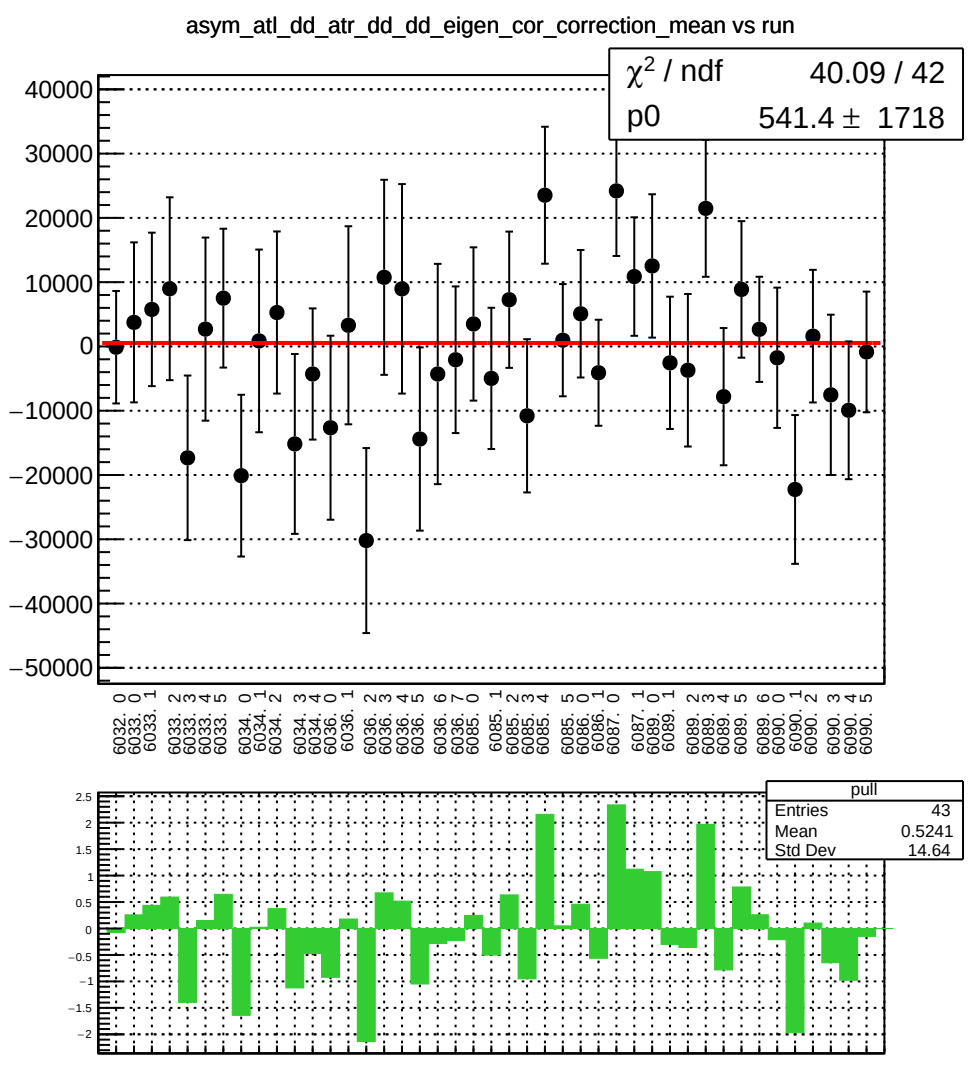

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 40.09 / 42
p0 541.4 ± 1718
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.5241
Std Dev 14.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

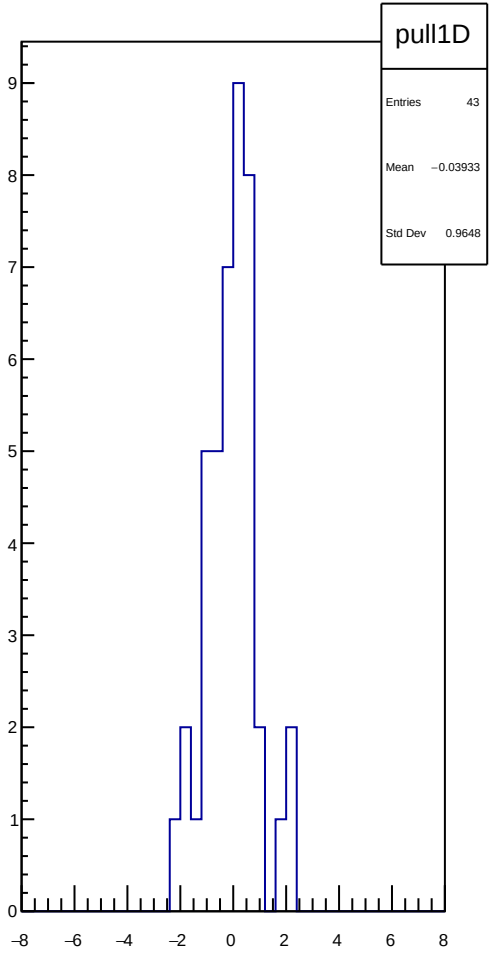

pull1D
Entries 43
Mean −0.03933
Std Dev 0.9648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

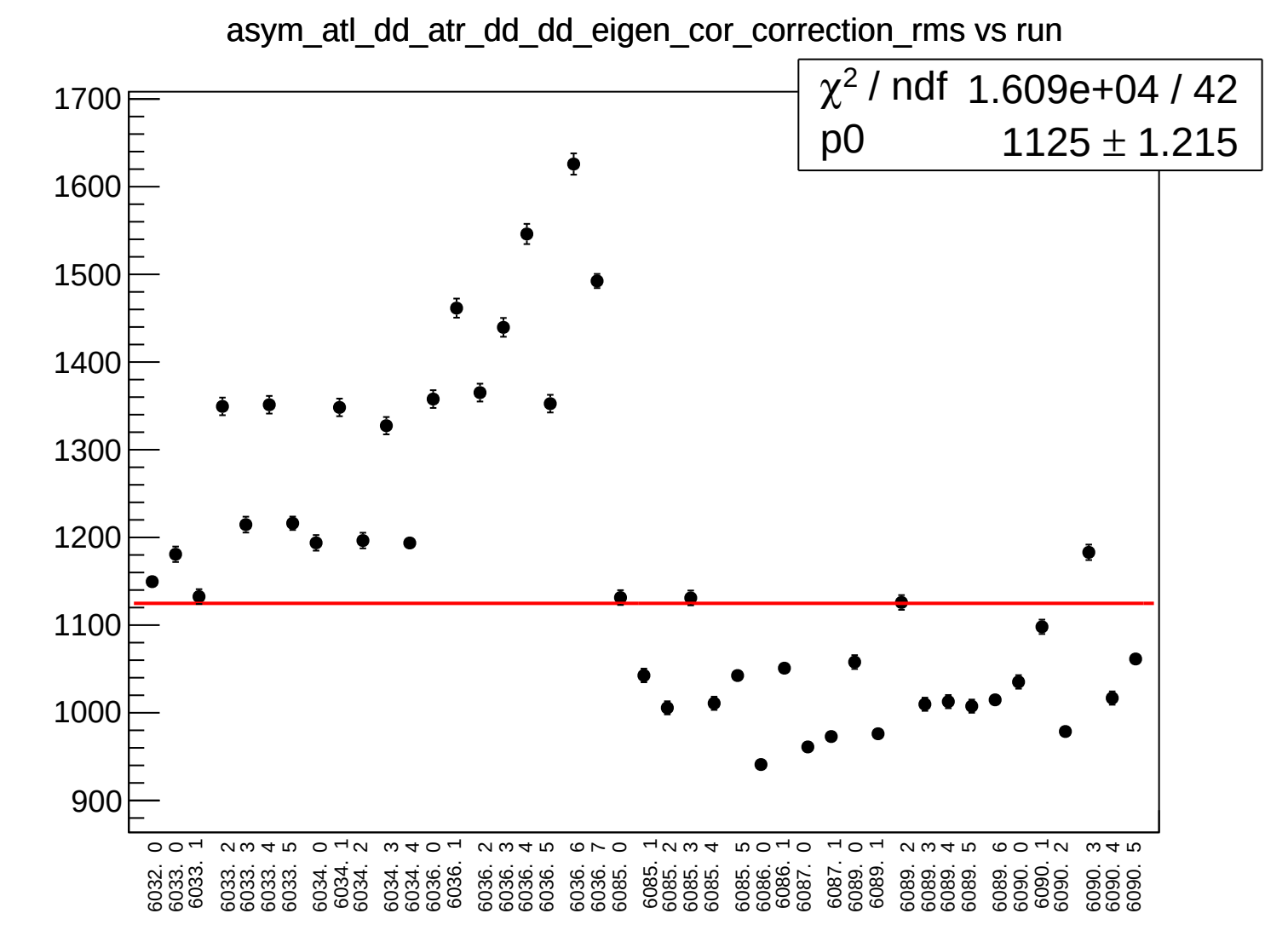

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.609e+04 / 42
p0 1125 ± 1.215
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

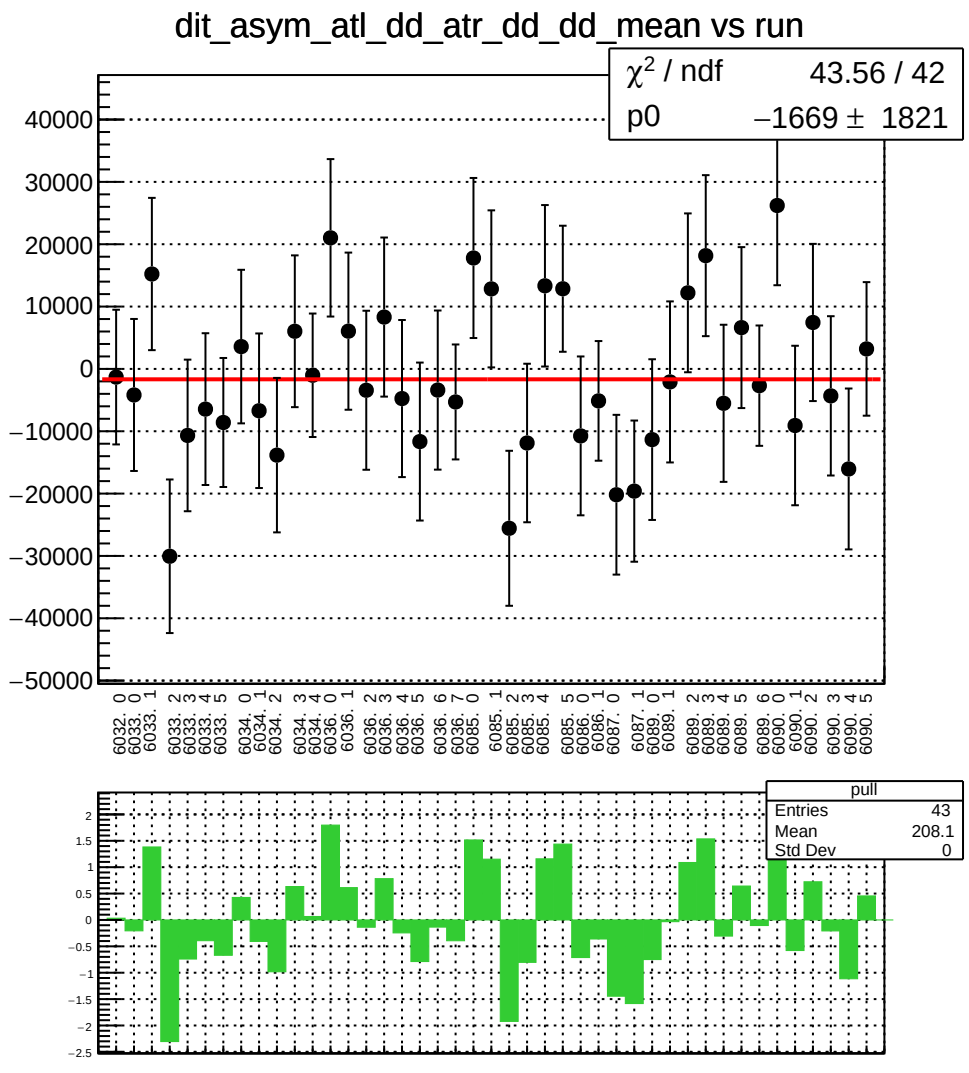

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 43.27 / 42
p0 −1629 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006824
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

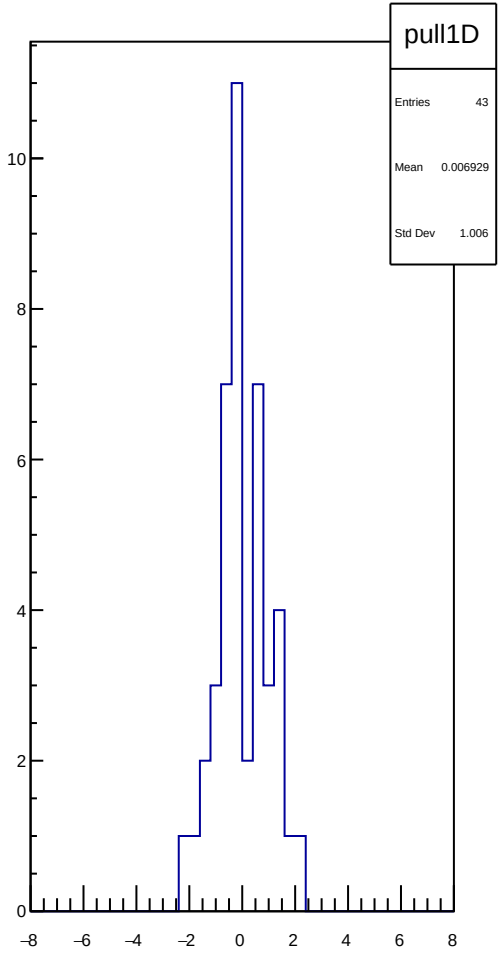

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1147 / 42
p0 1201 ± 1.286
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

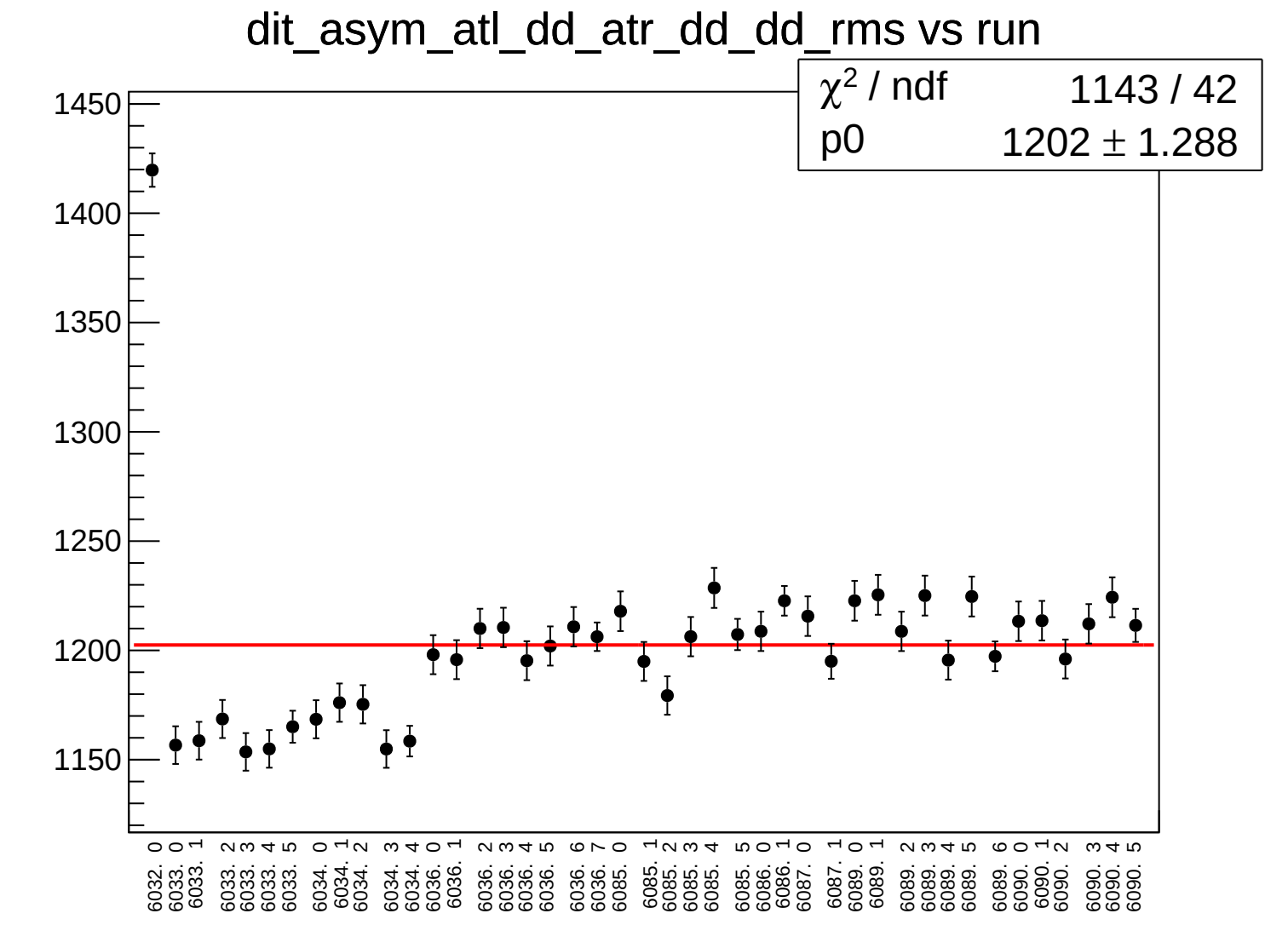

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.09 / 42
p0 541.4 ± 1718
pull
Entries 43
Mean 0.5241
Std Dev 14.64

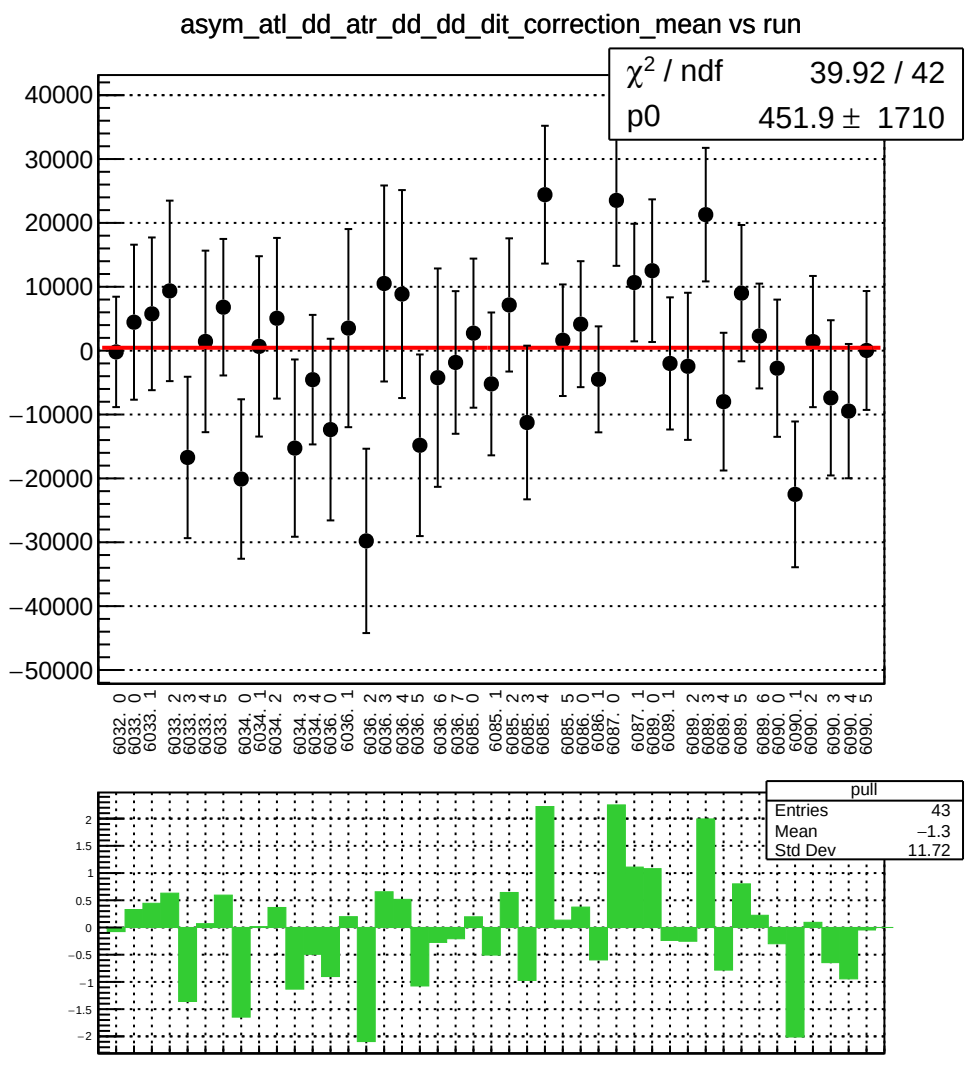

pull1D
Entries 43
Mean −0.03933
Std Dev 0.9648

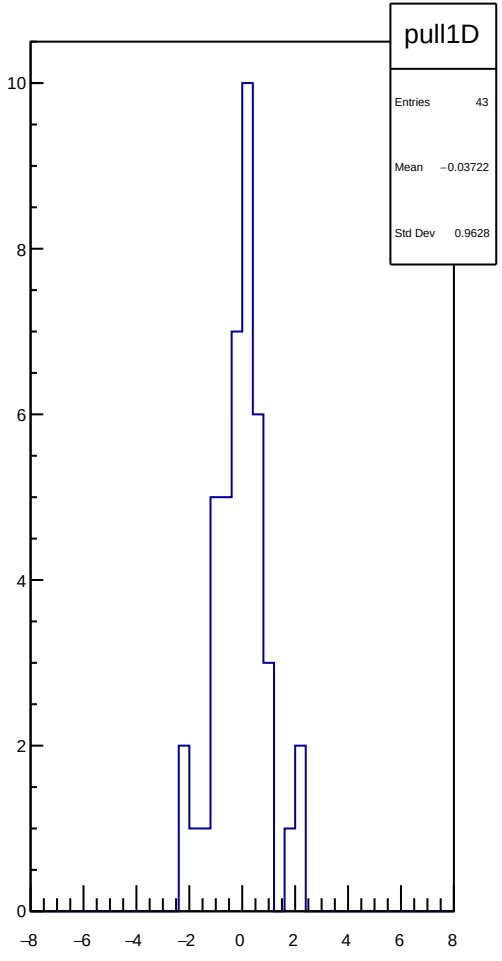

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.609e+04 / 42
p0 1125 ± 1.215
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

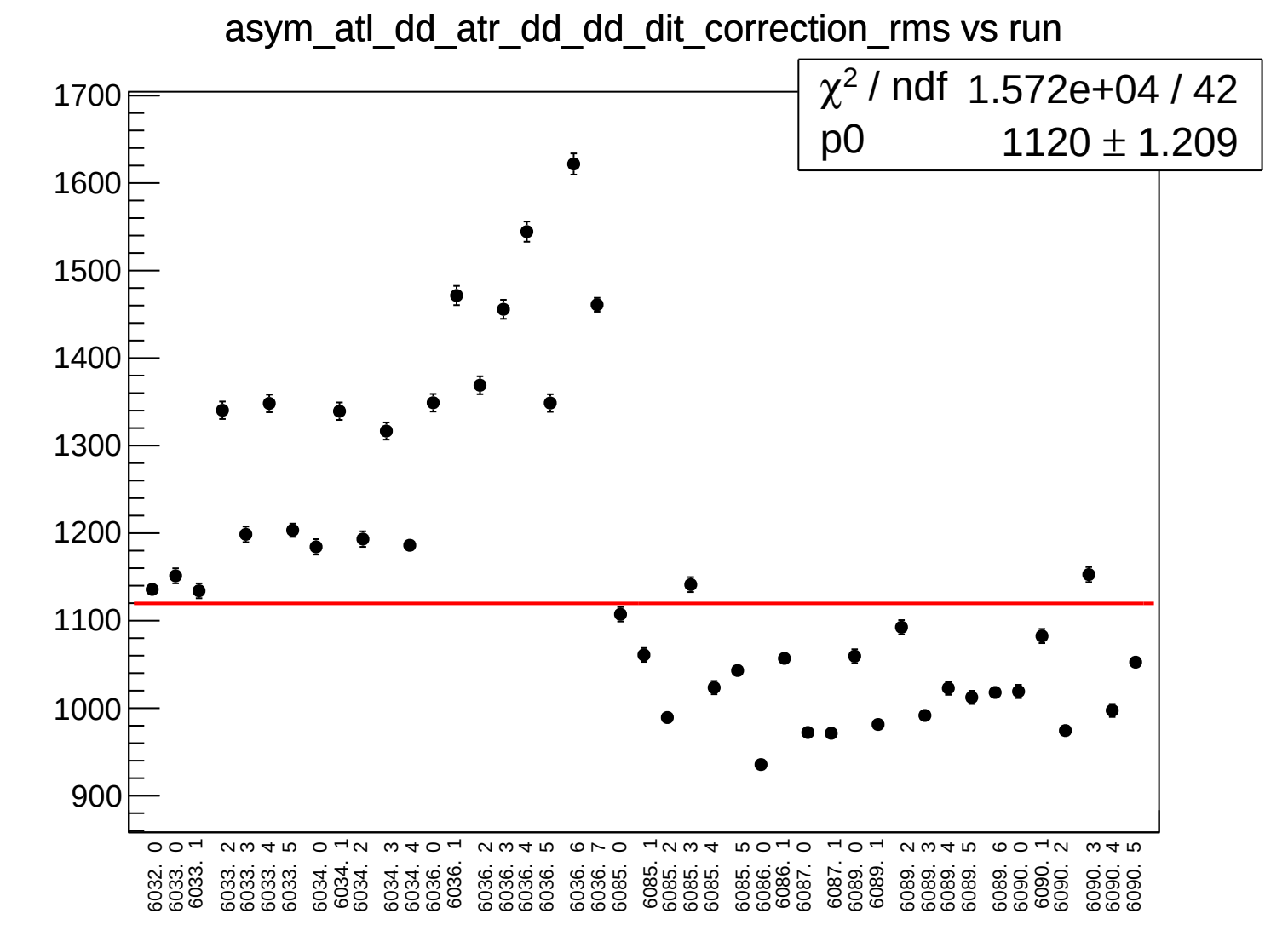

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 43.56 / 42
p0 −1669 ± 1821
pull
Entries 43
Mean 208.1
Std Dev 0

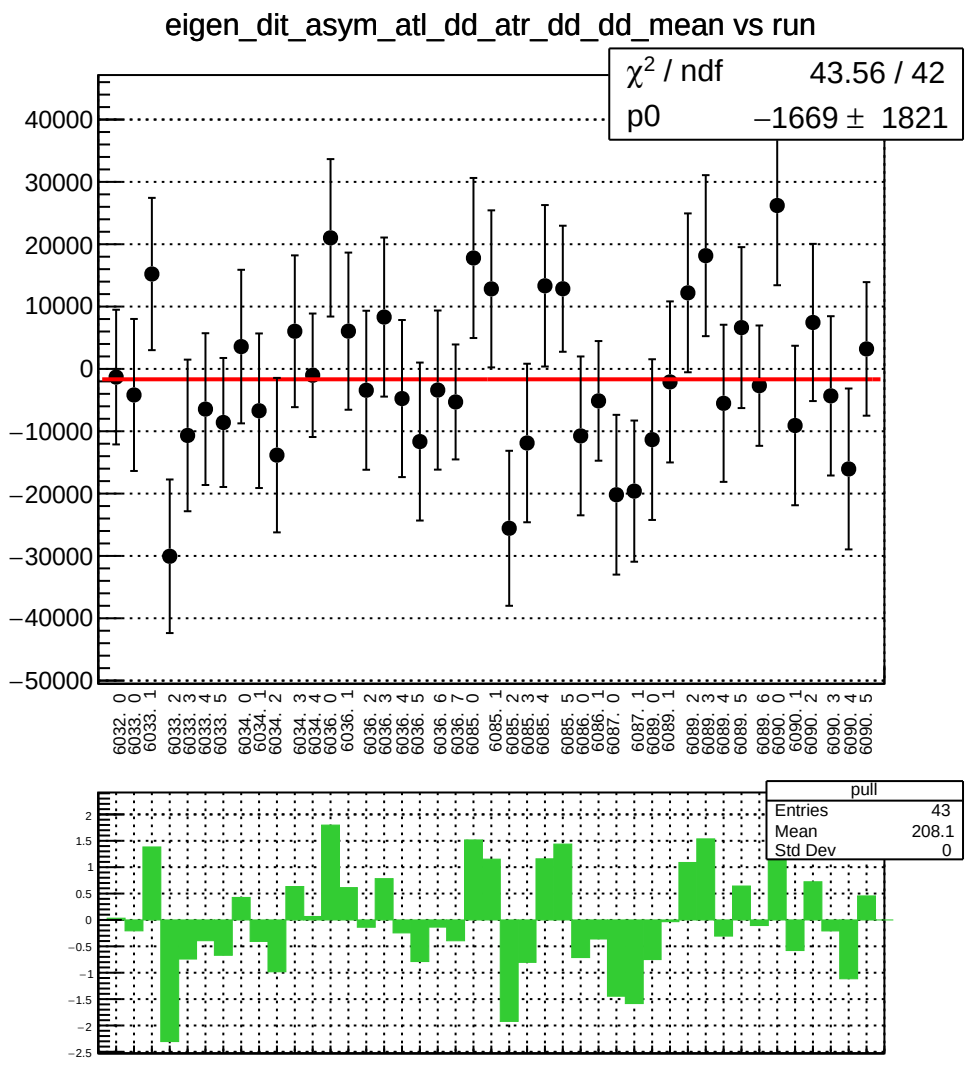

pull1D
Entries 43
Mean 0.006929
Std Dev 1.006

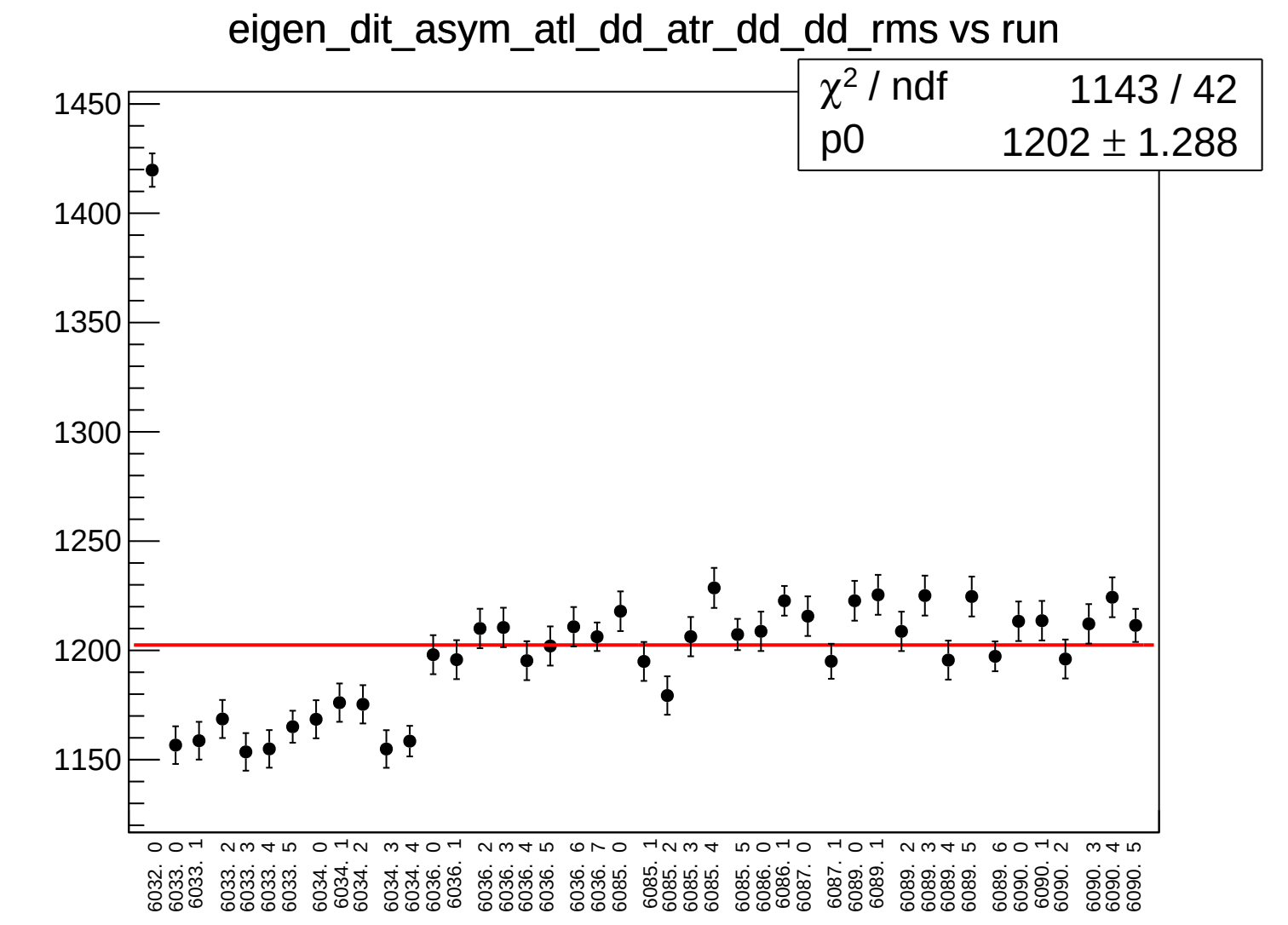

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1143 / 42
p0 1202 ± 1.288
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

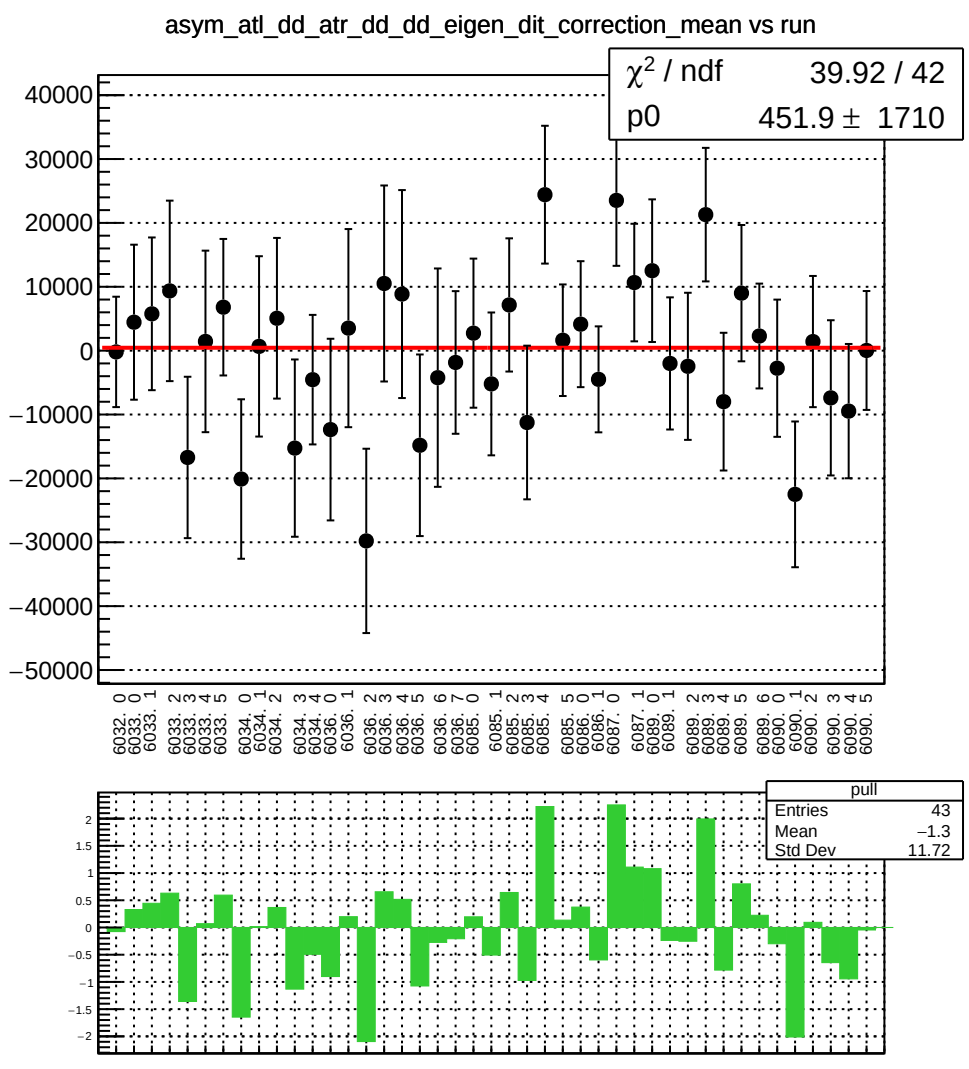

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 39.92 / 42
p0 451.9 ± 1710
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.3
Std Dev 11.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

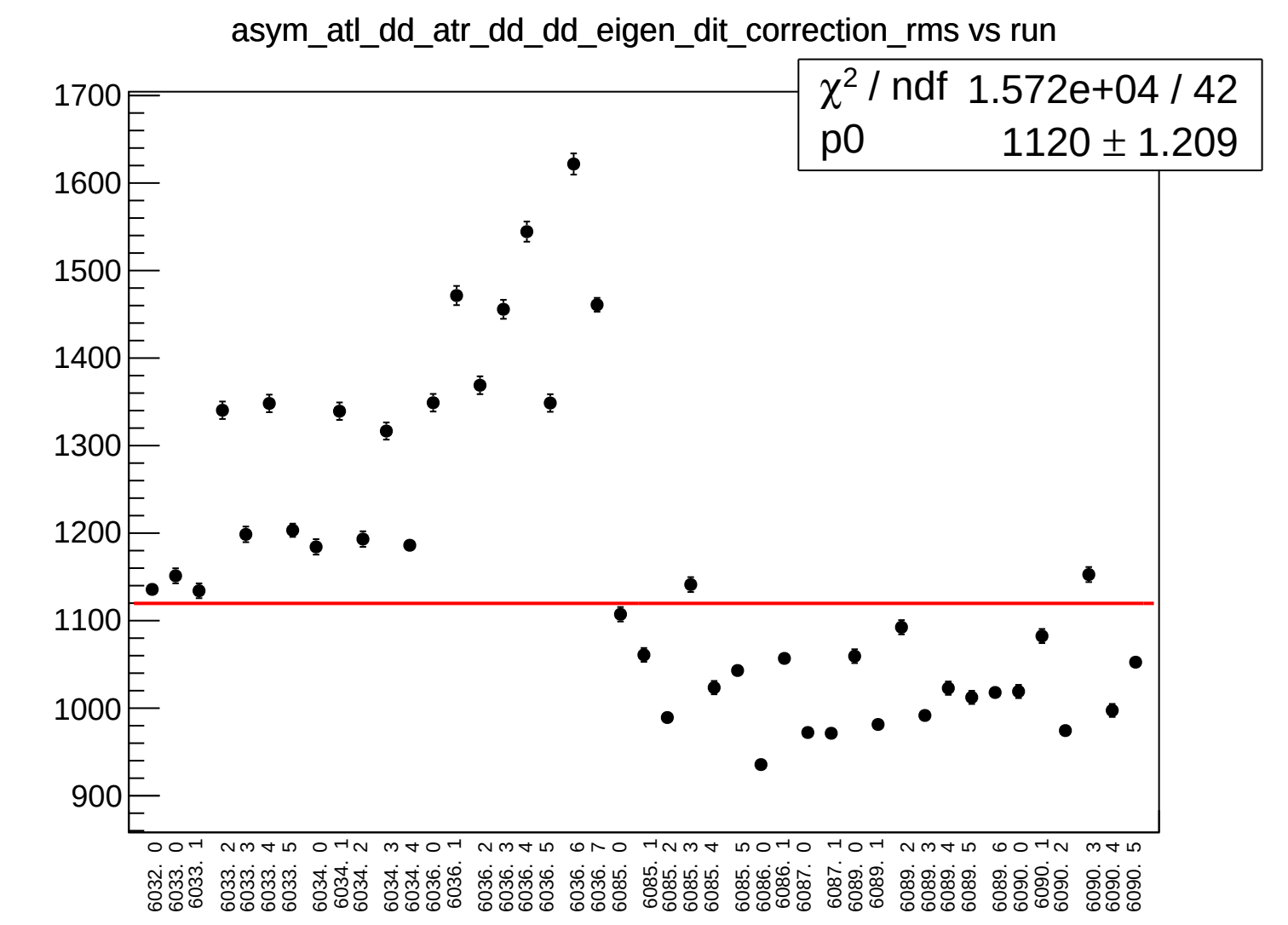

pull1D
Entries 43
Mean −0.03722
Std Dev 0.9628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

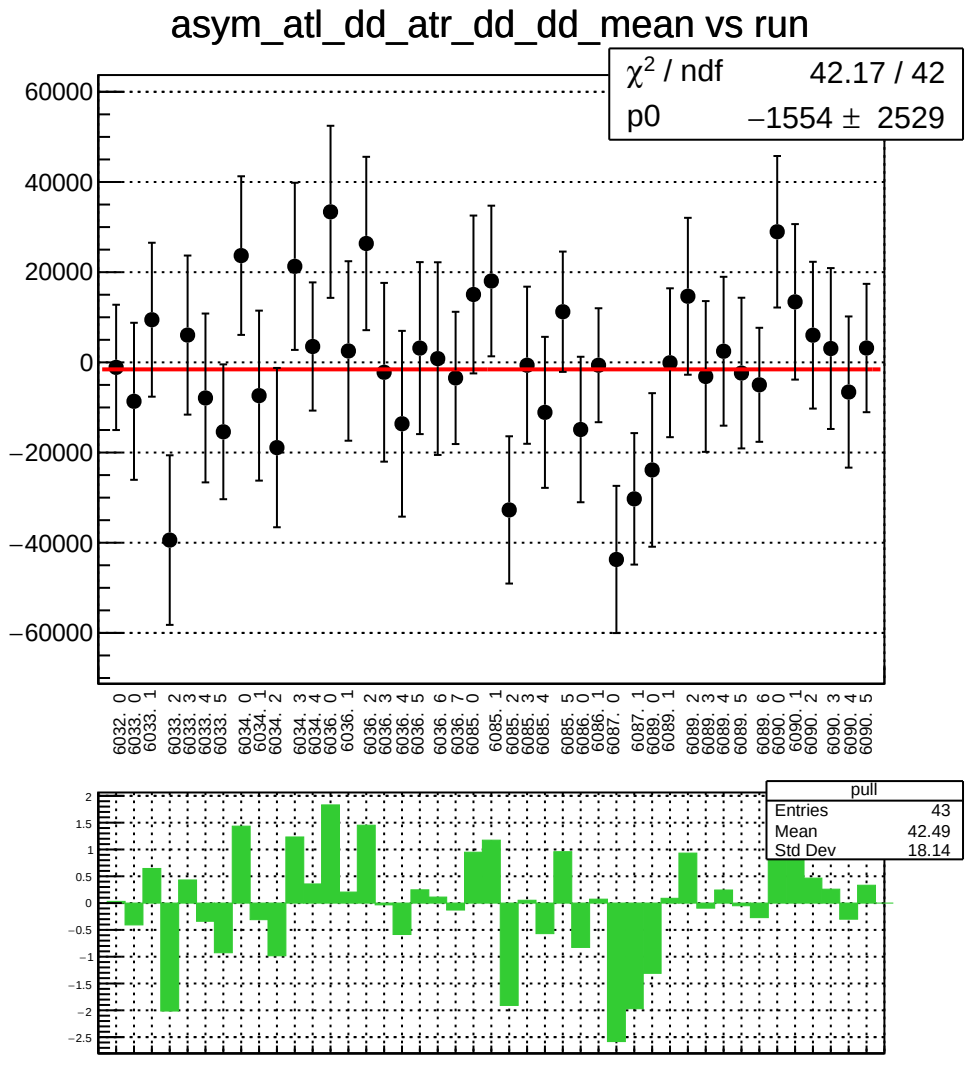

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 42
p0 1120 ± 1.209
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

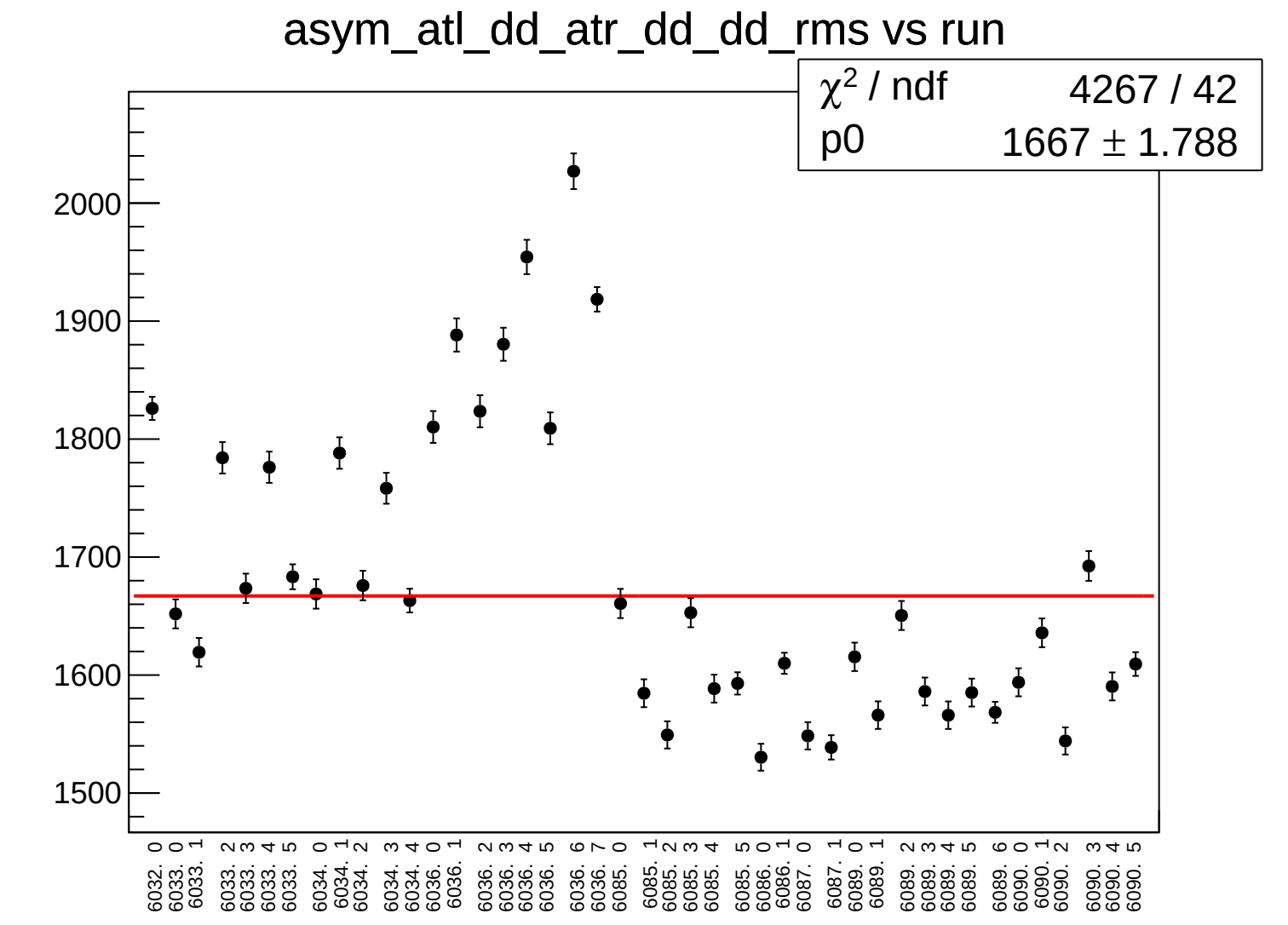

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 43.56 / 42
p0 −1669 ± 1821
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 208.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.006929
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

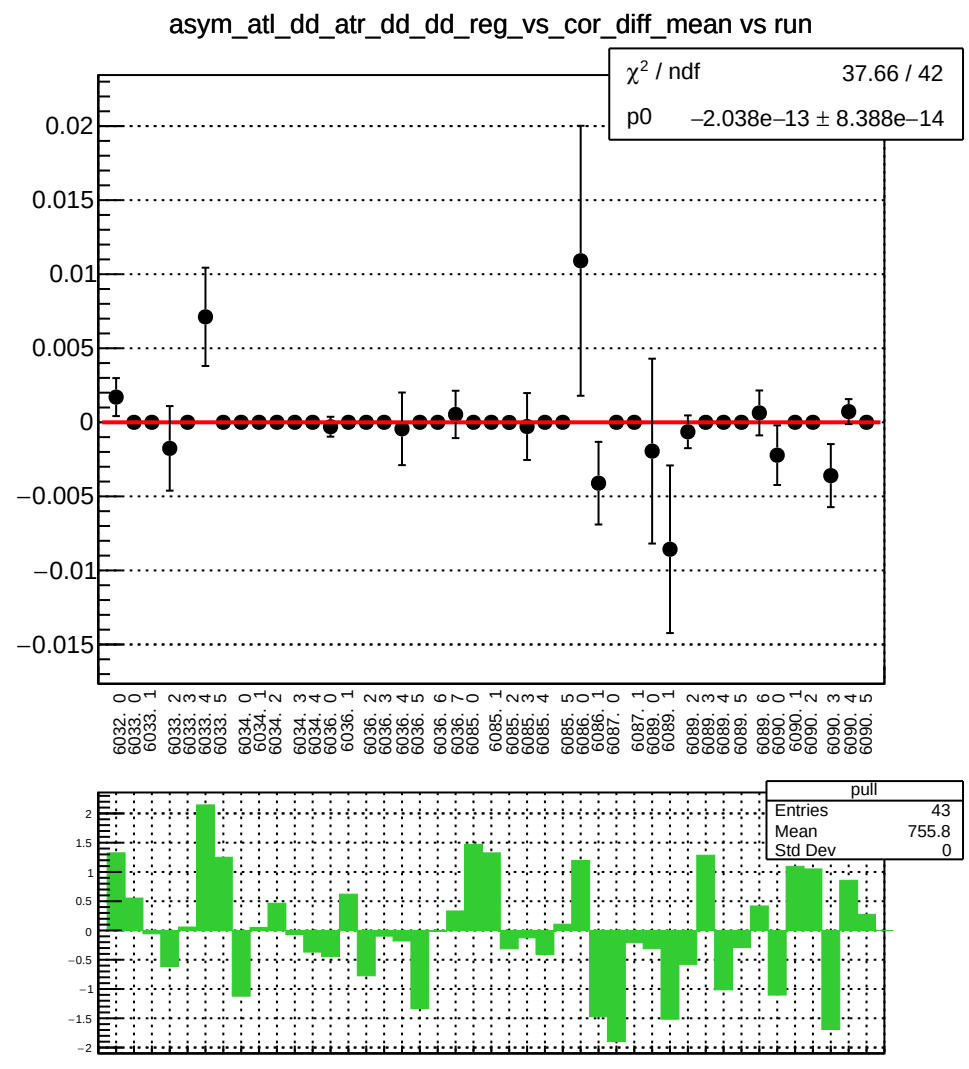

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1143 / 42
p0 1202 ± 1.288
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

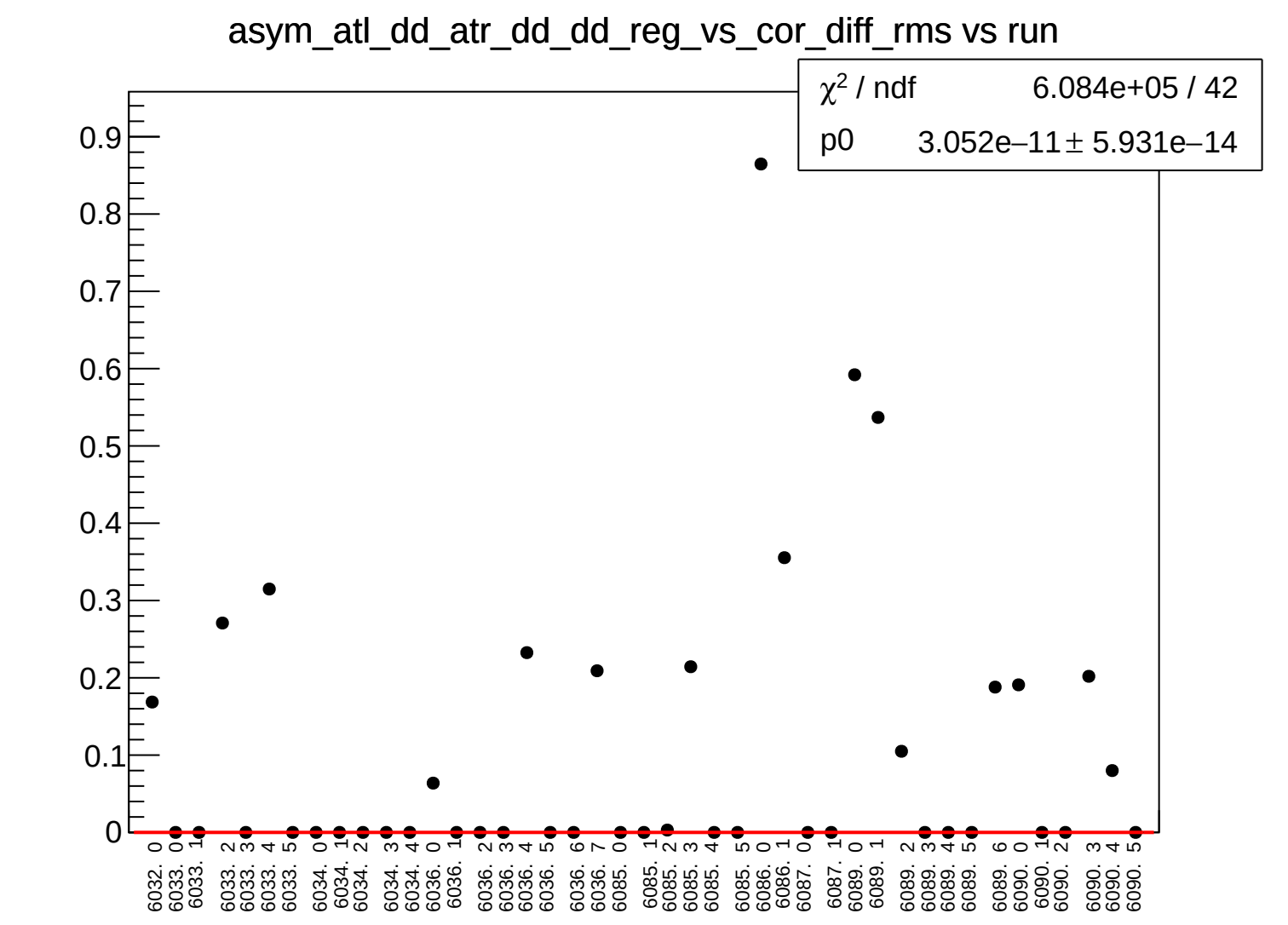

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.92 / 42
p0 451.9 ± 1710
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.3
Std Dev 11.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03722
Std Dev 0.9628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

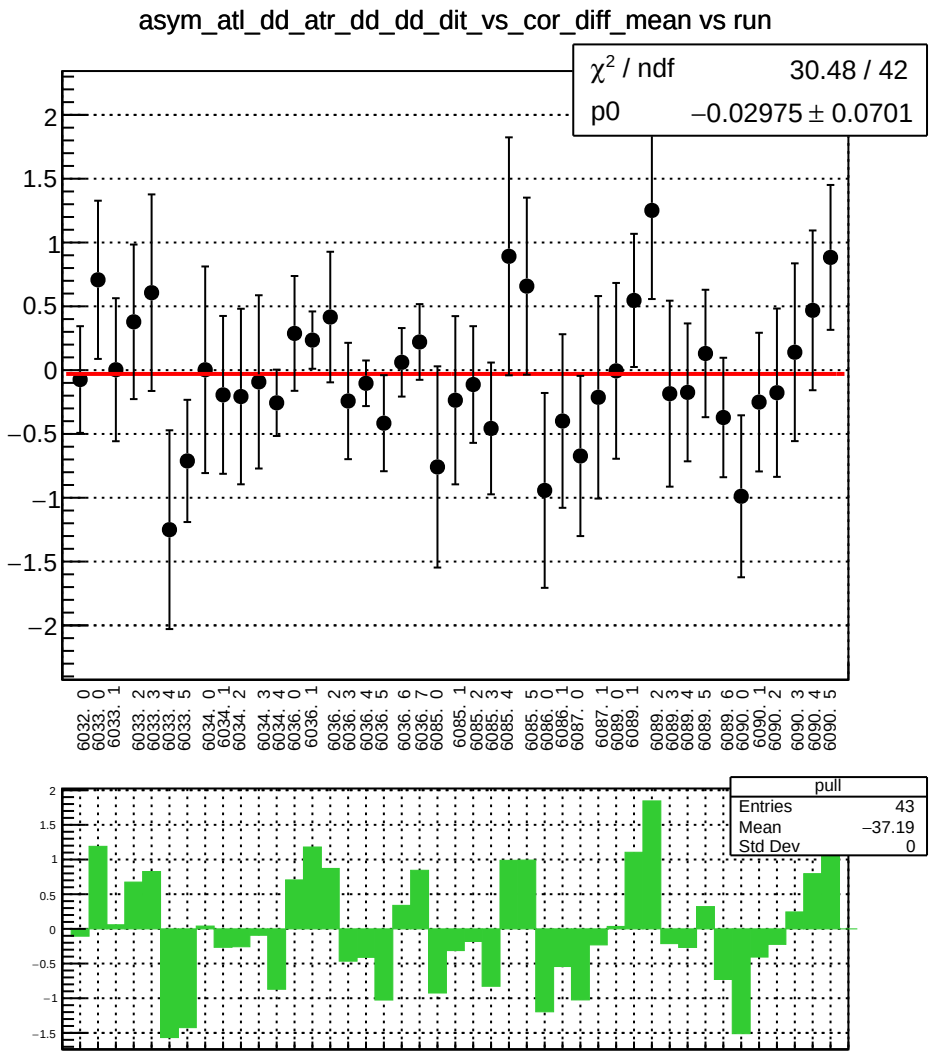

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 42
p0 1120 ± 1.209
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

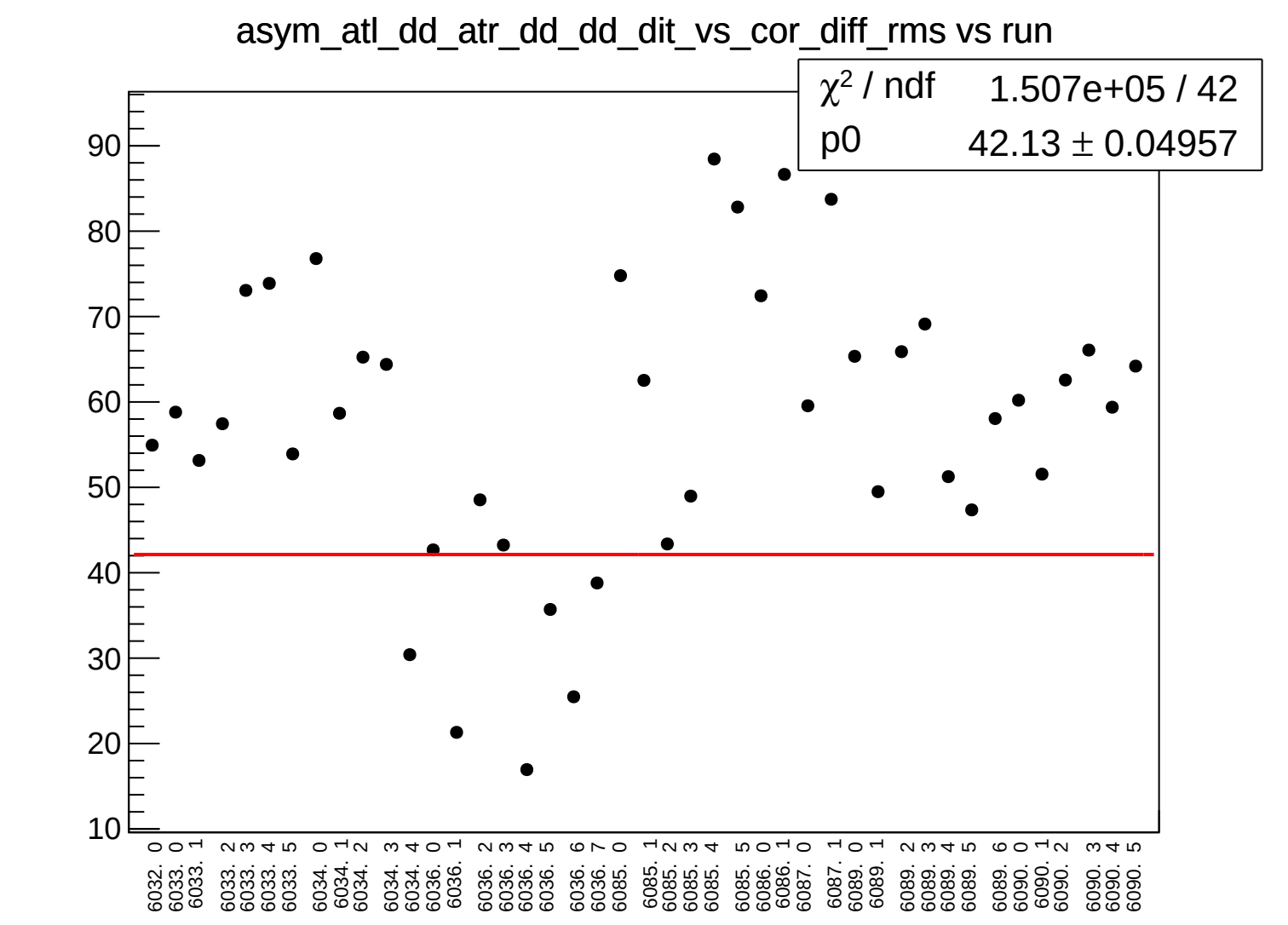

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 42.17 / 42
p0 −1554 ± 2529
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 42.49
Std Dev 18.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01371
Std Dev 0.9902
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

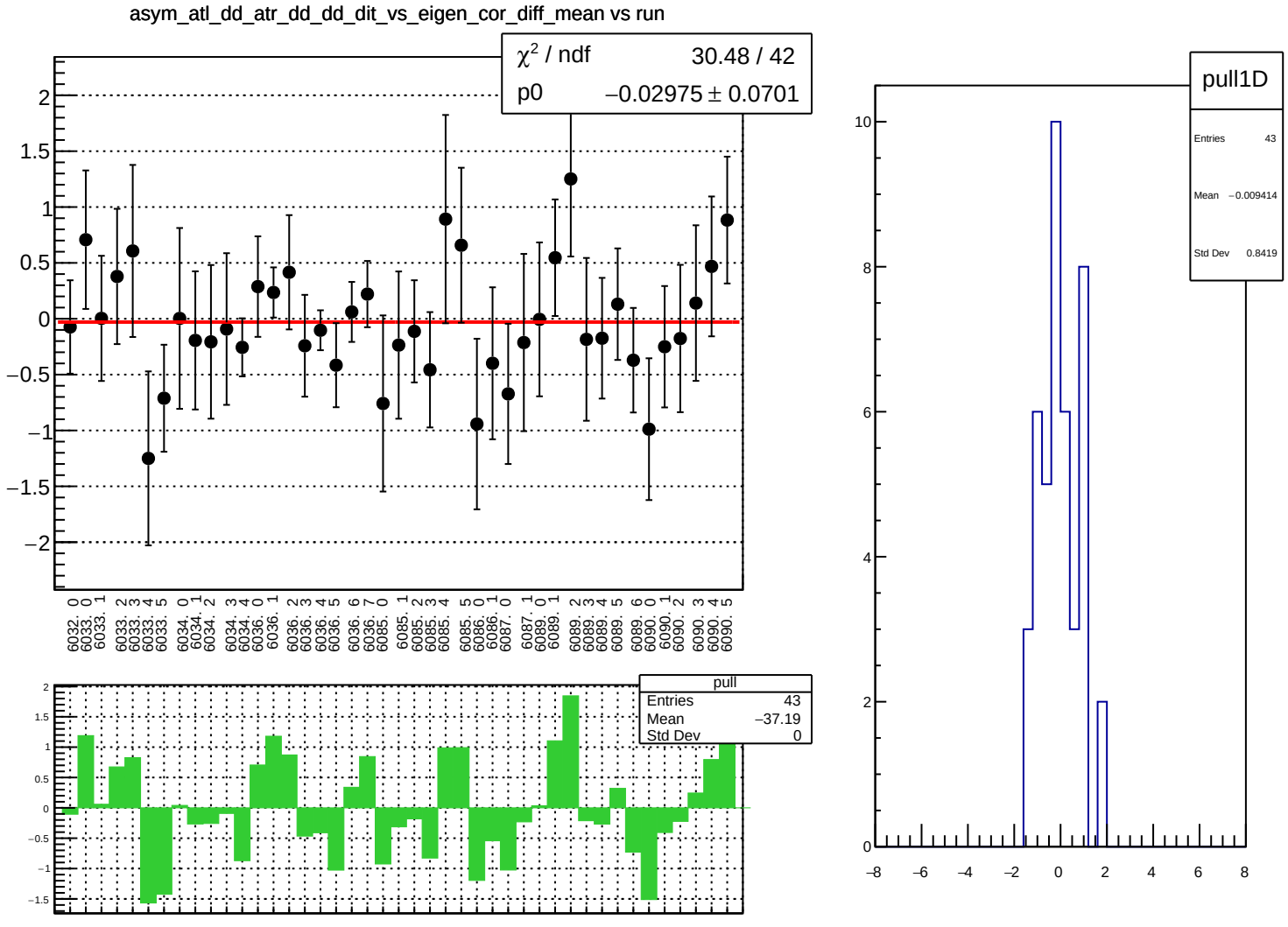

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4267 / 42
p0 1667 ± 1.788
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

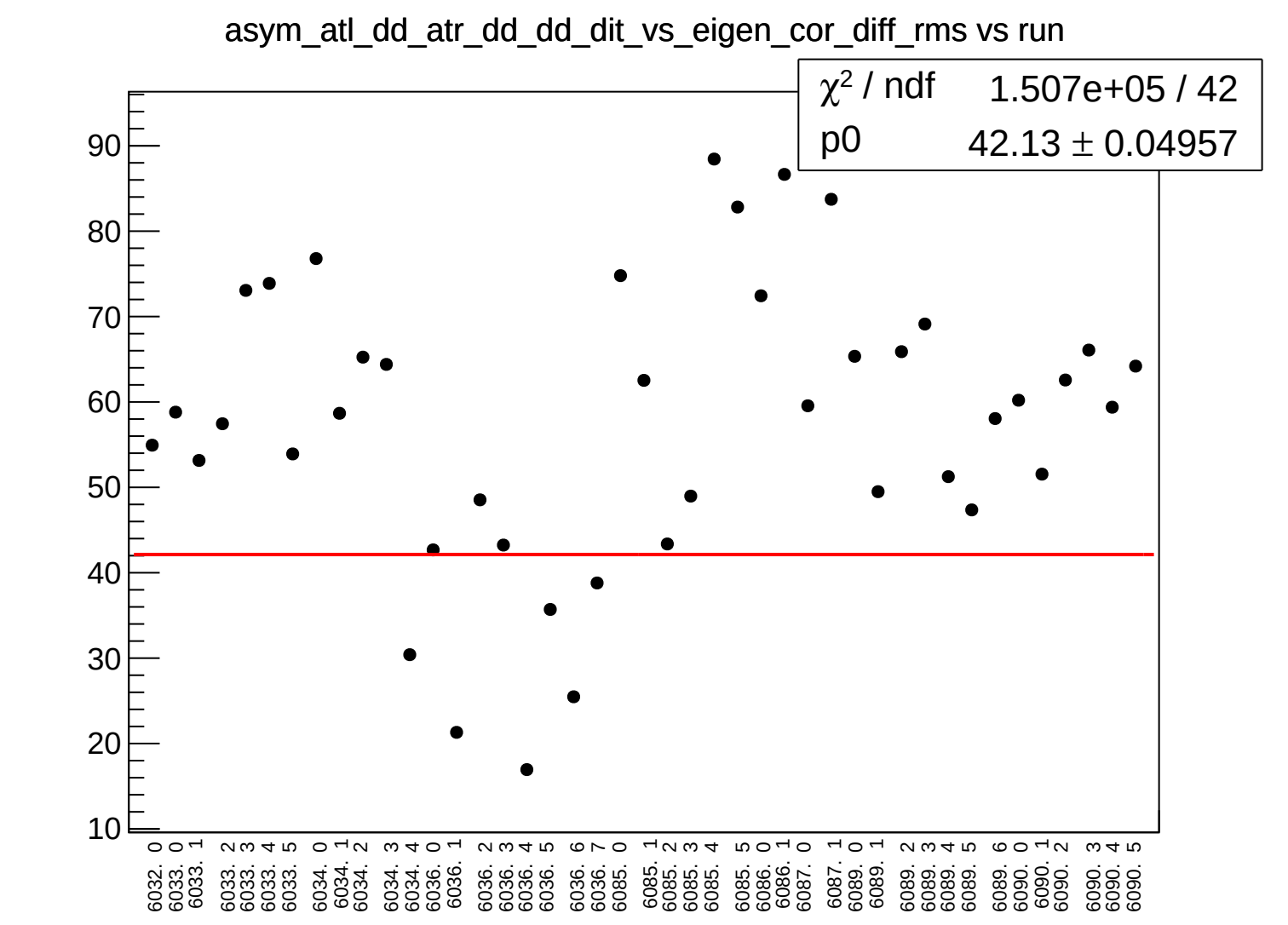

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.66 / 42
p0 −2.038e−13 ± 8.388e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 755.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002728
Std Dev 0.9359
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

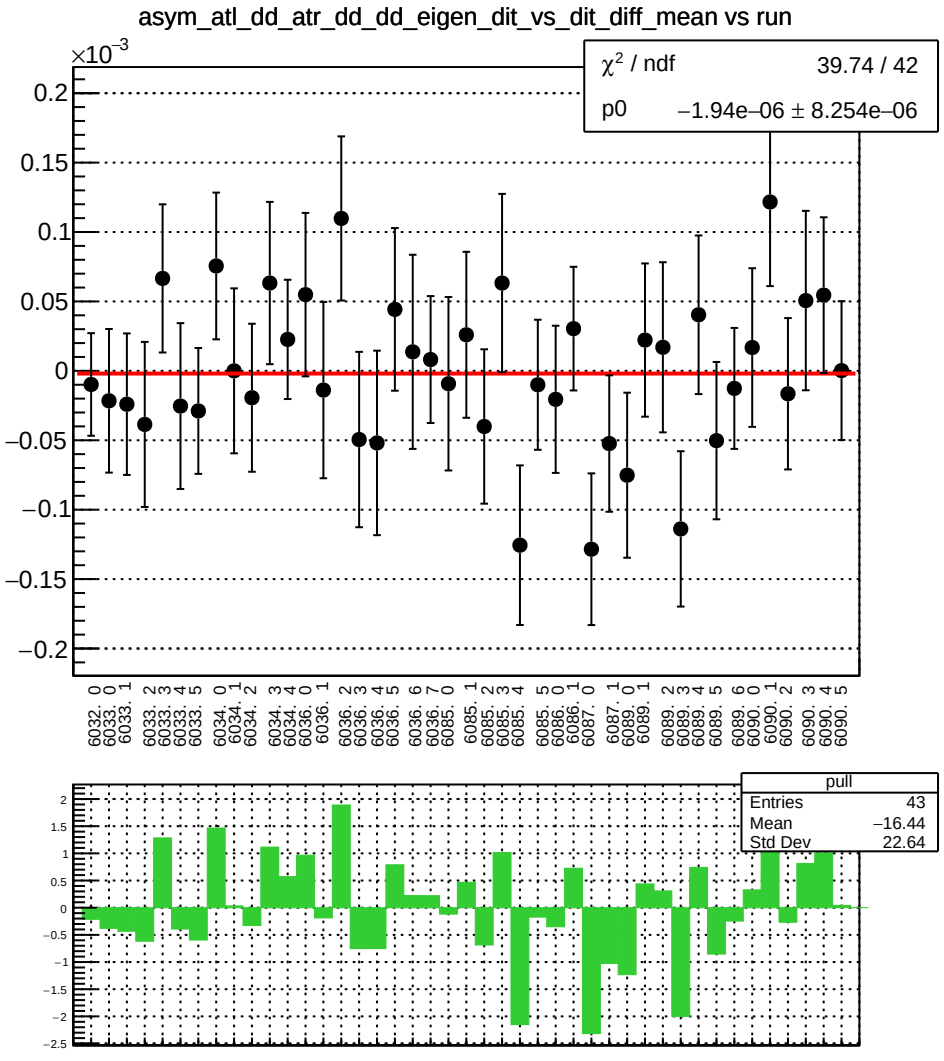

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.084e+05 / 42
p0 3.052e−11 ± 5.931e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

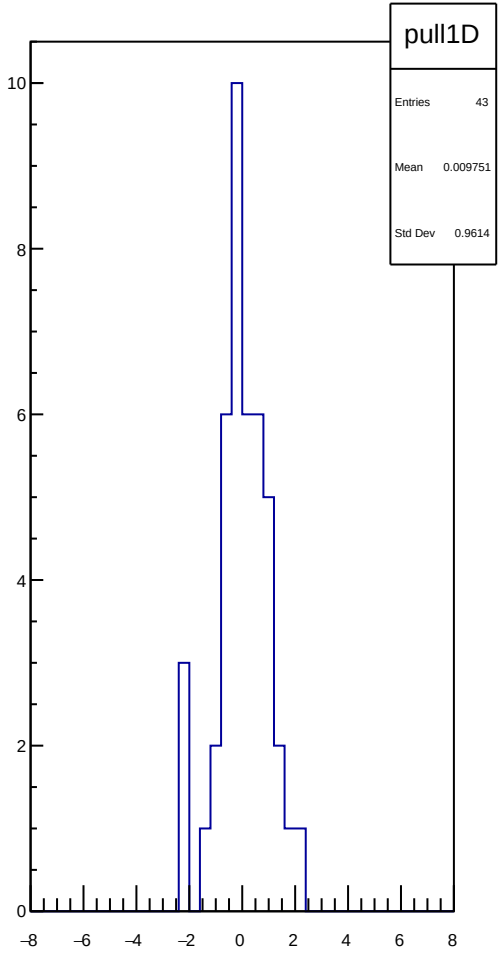

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
pull
Entries 43
Mean −37.19
Std Dev 0
pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

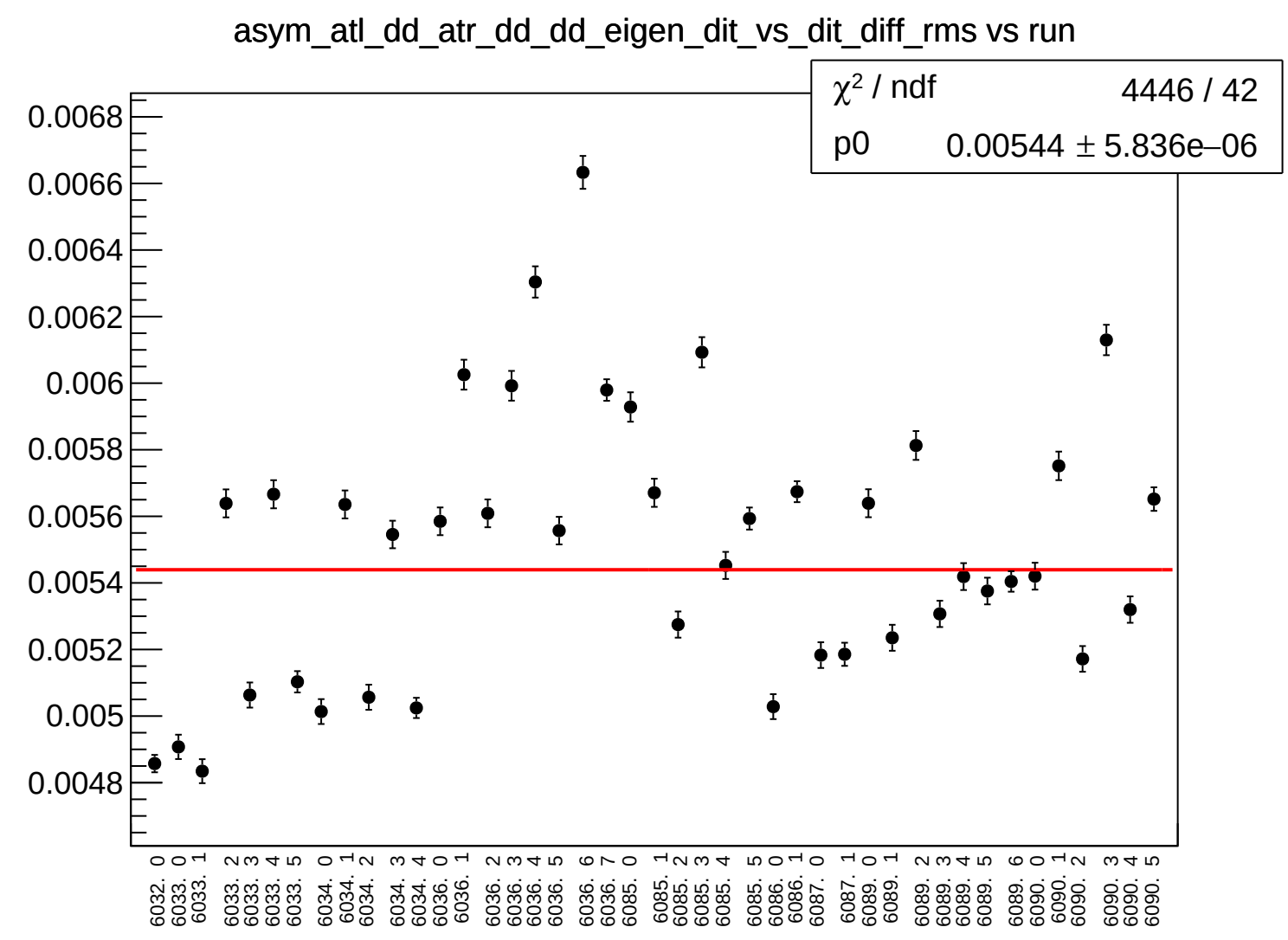

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

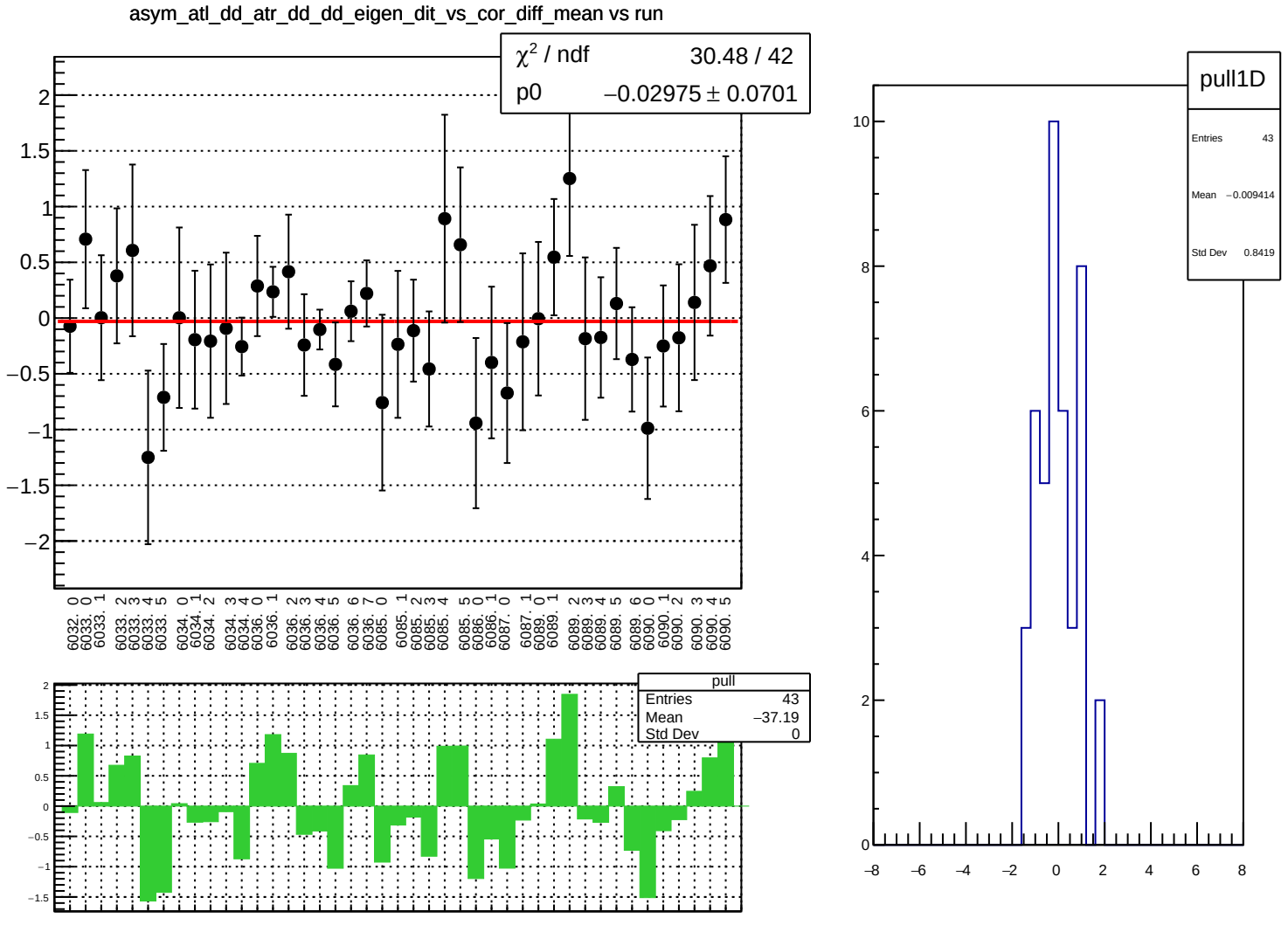

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.19
Std Dev 0
pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

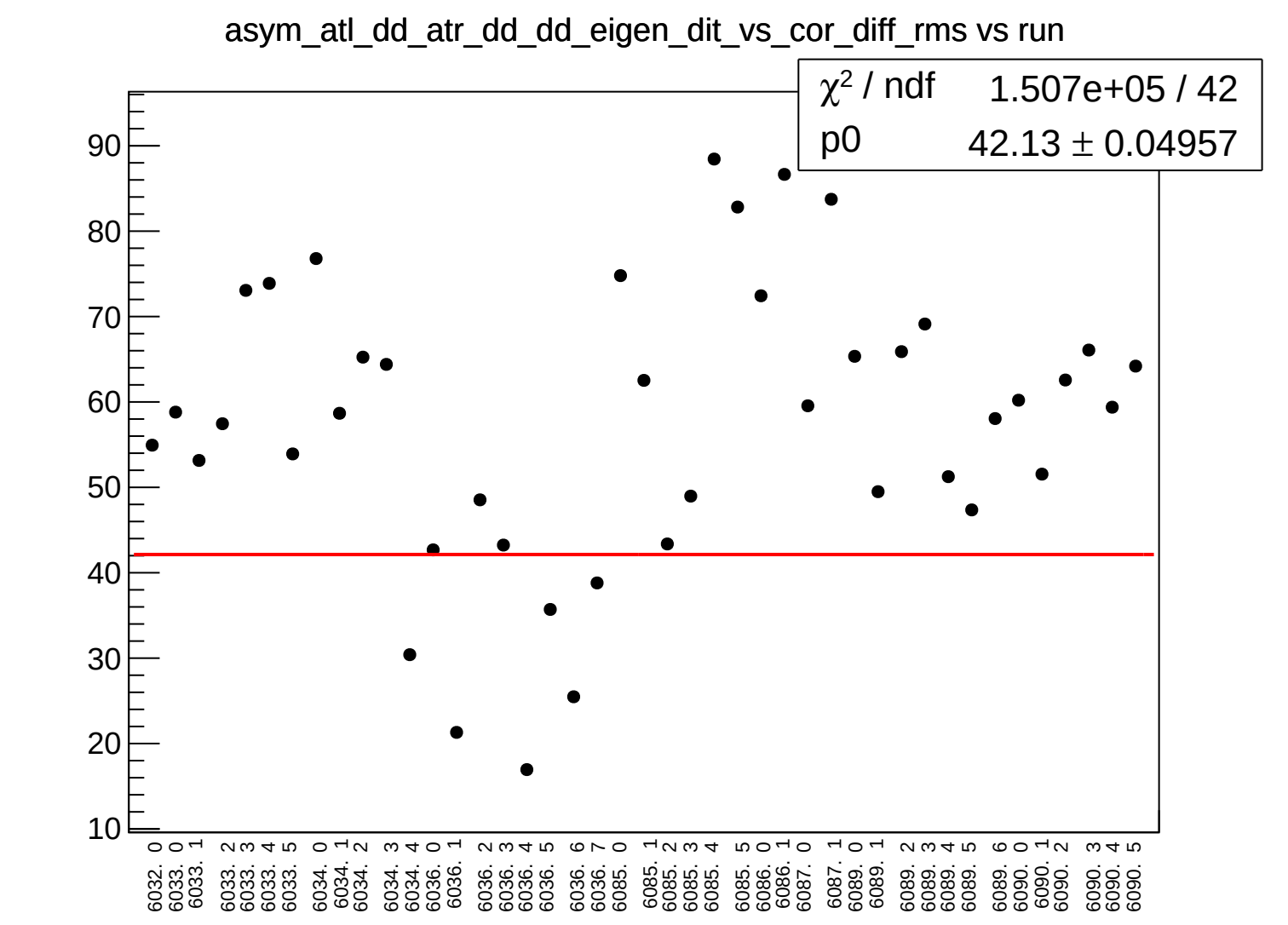

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

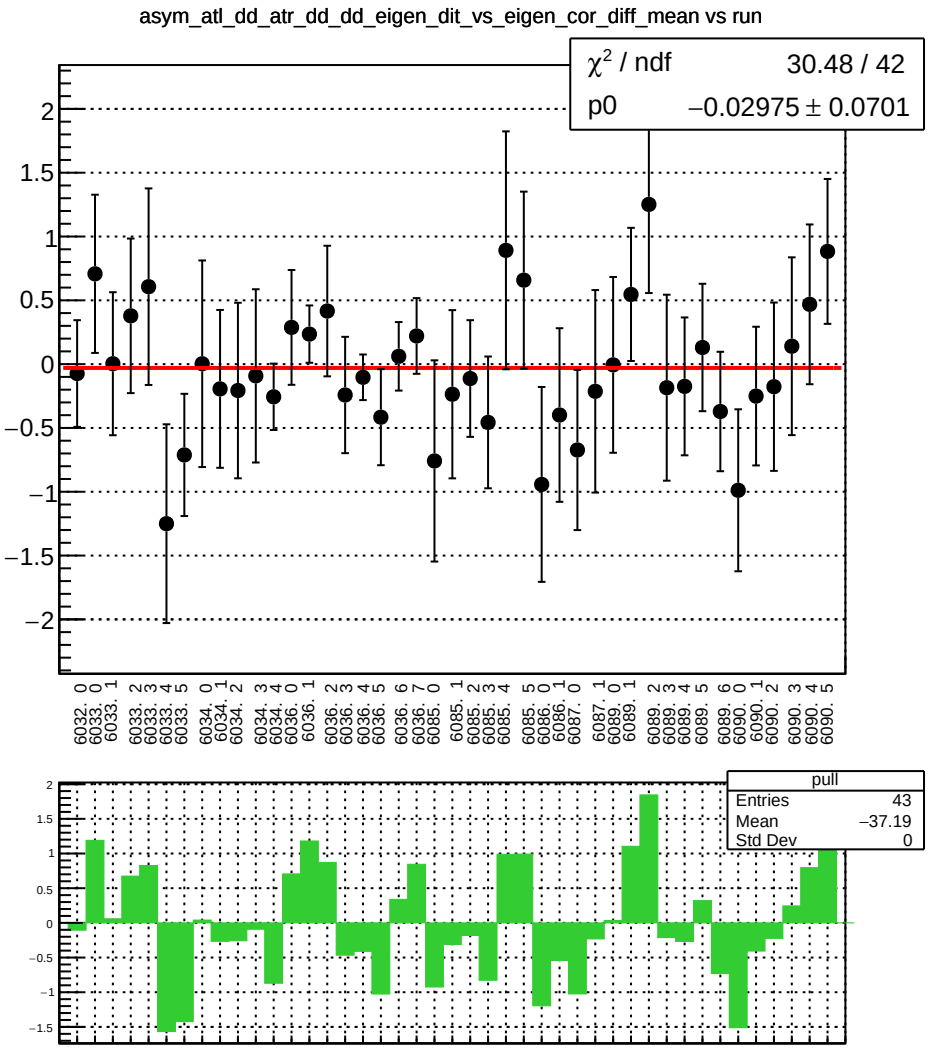

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 39.74 / 42
p0 −1.94e−06 ± 8.254e−06
pull
Entries 43
Mean −16.44
Std Dev 22.64

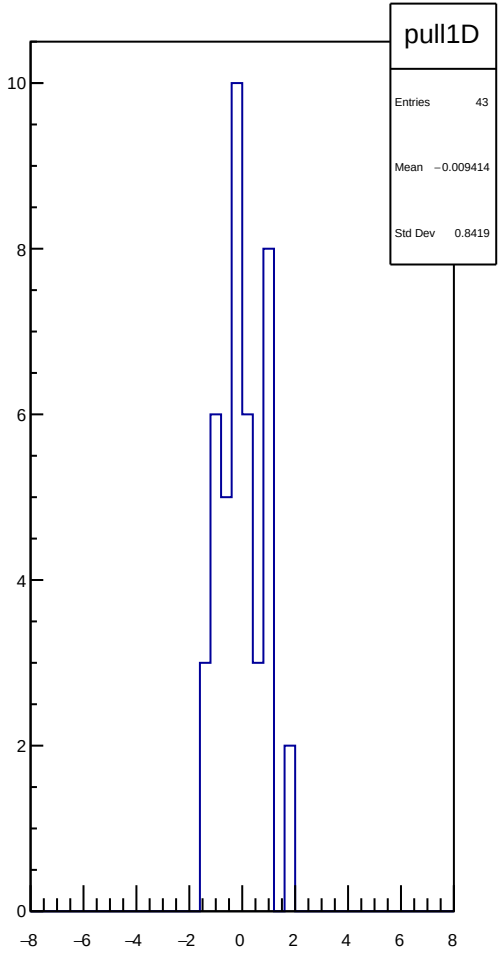

pull1D
Entries 43
Mean 0.009751
Std Dev 0.9614

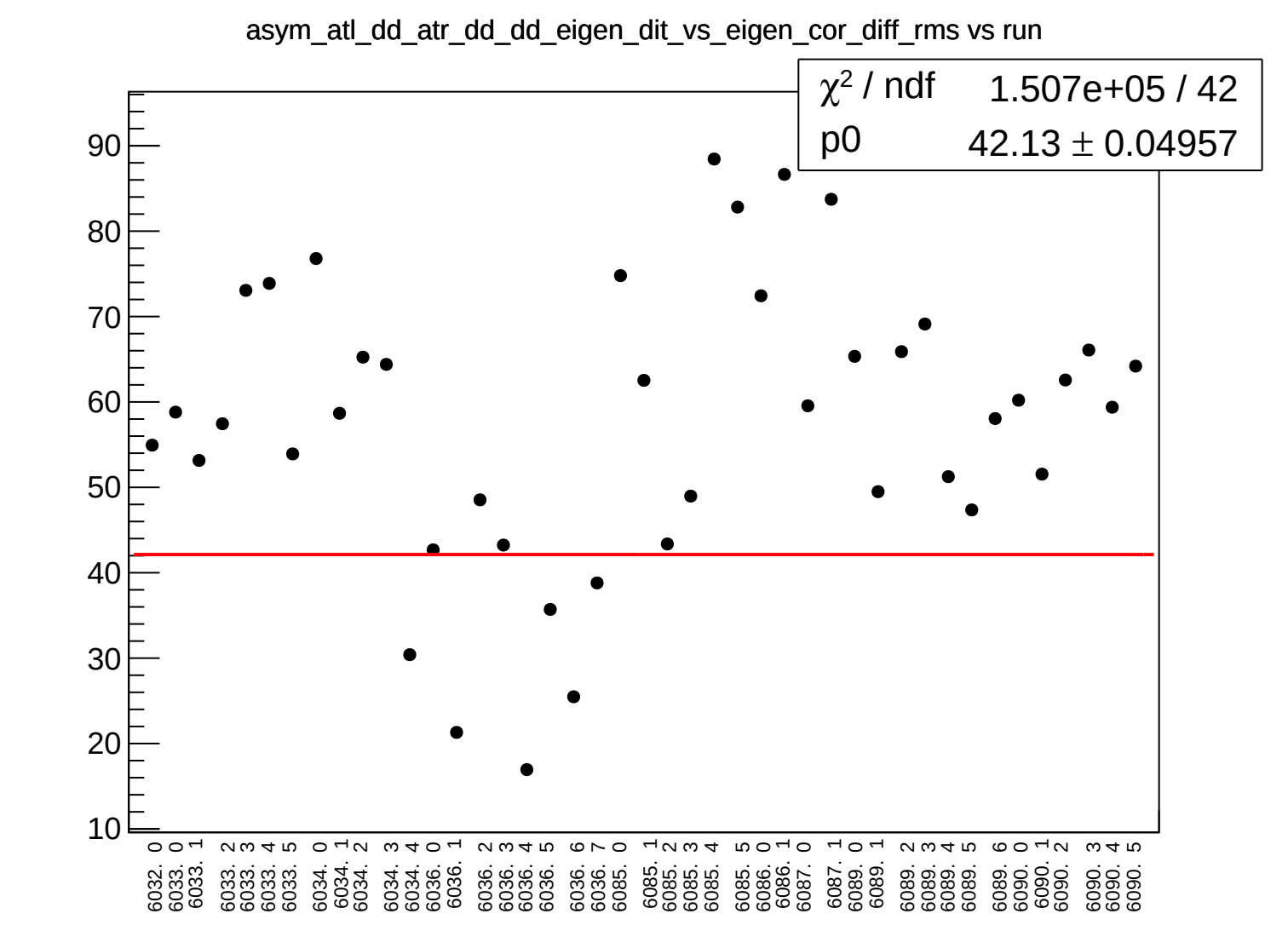

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4446 / 42
p0 0.00544 ± 5.836e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

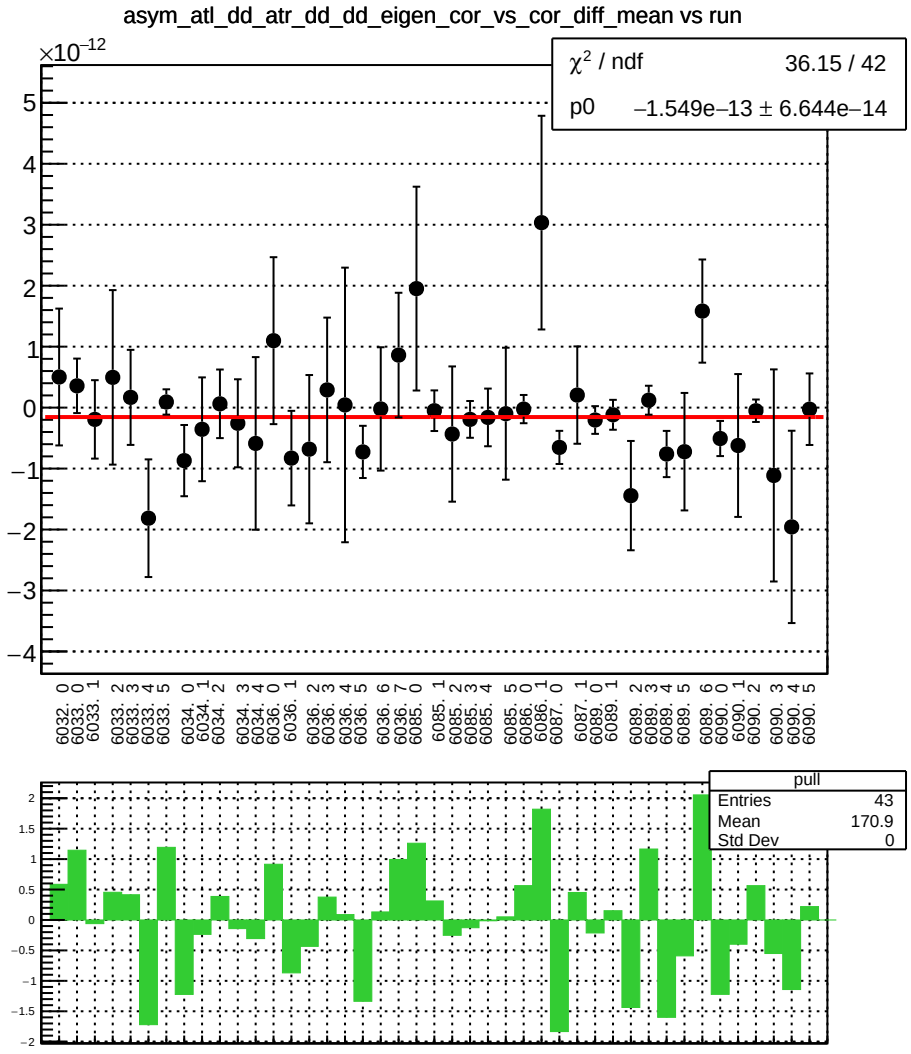

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
pull
Entries 43
Mean −37.19
Std Dev 0
pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

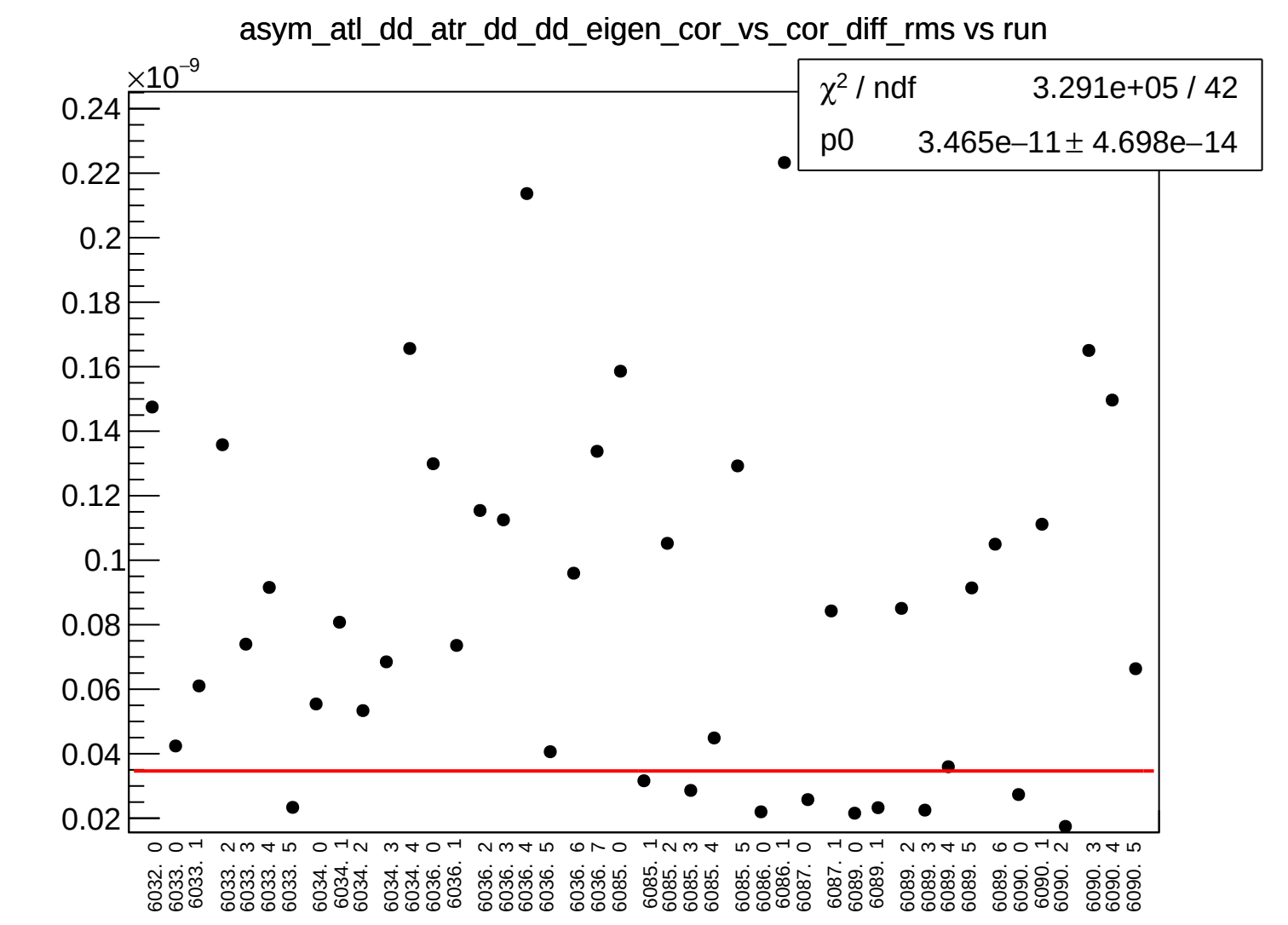

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

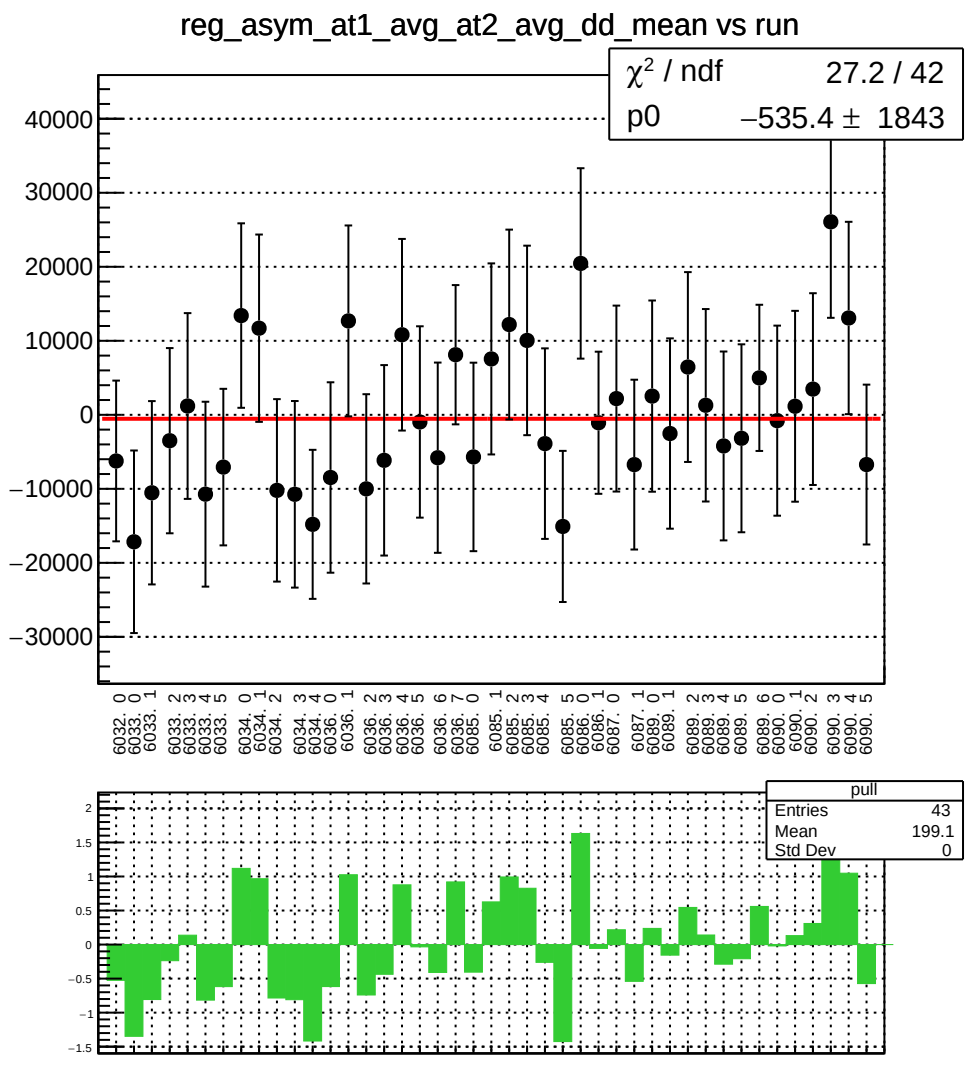

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
pull
Entries 43
Mean −37.19
Std Dev 0

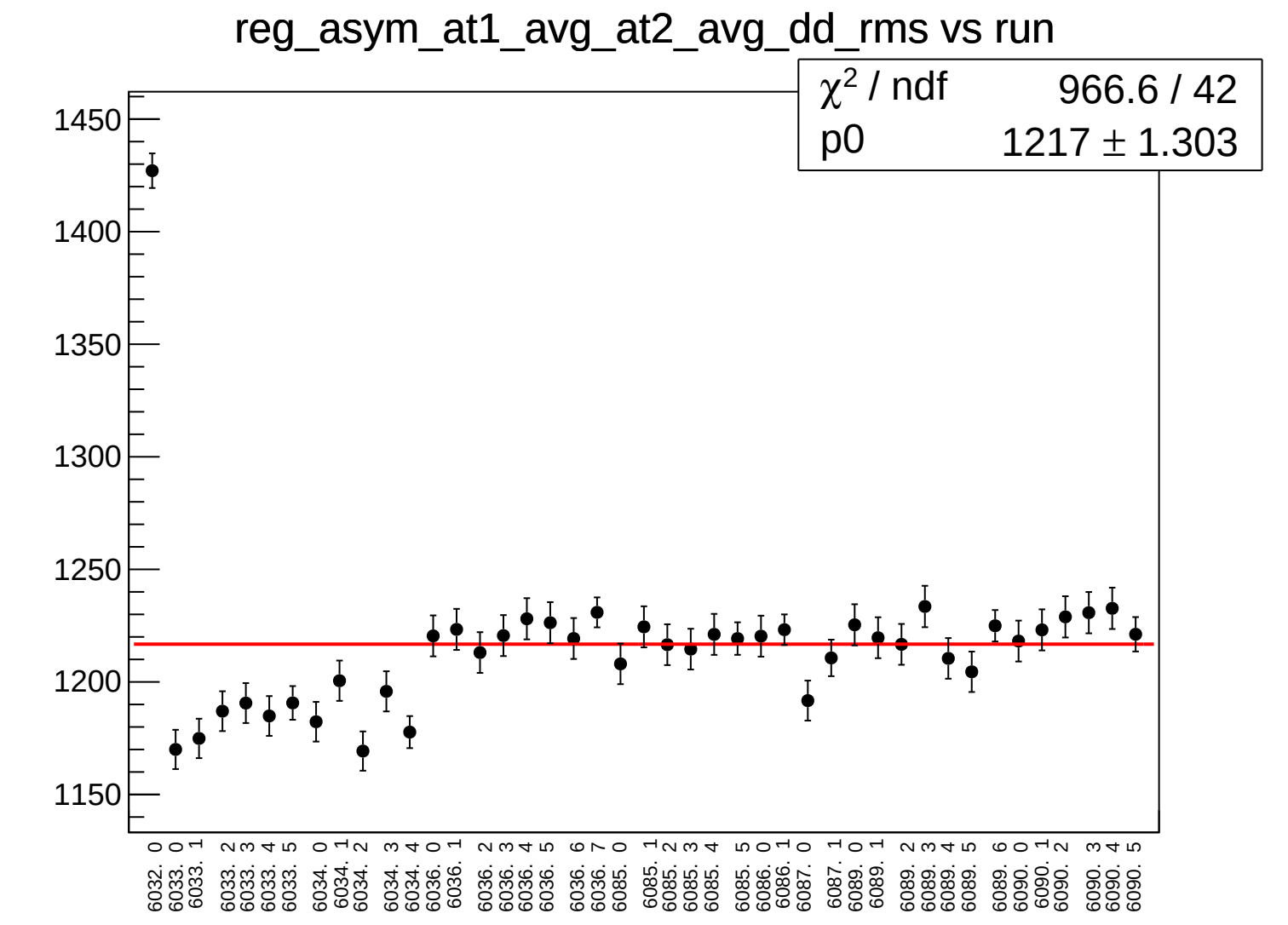

pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

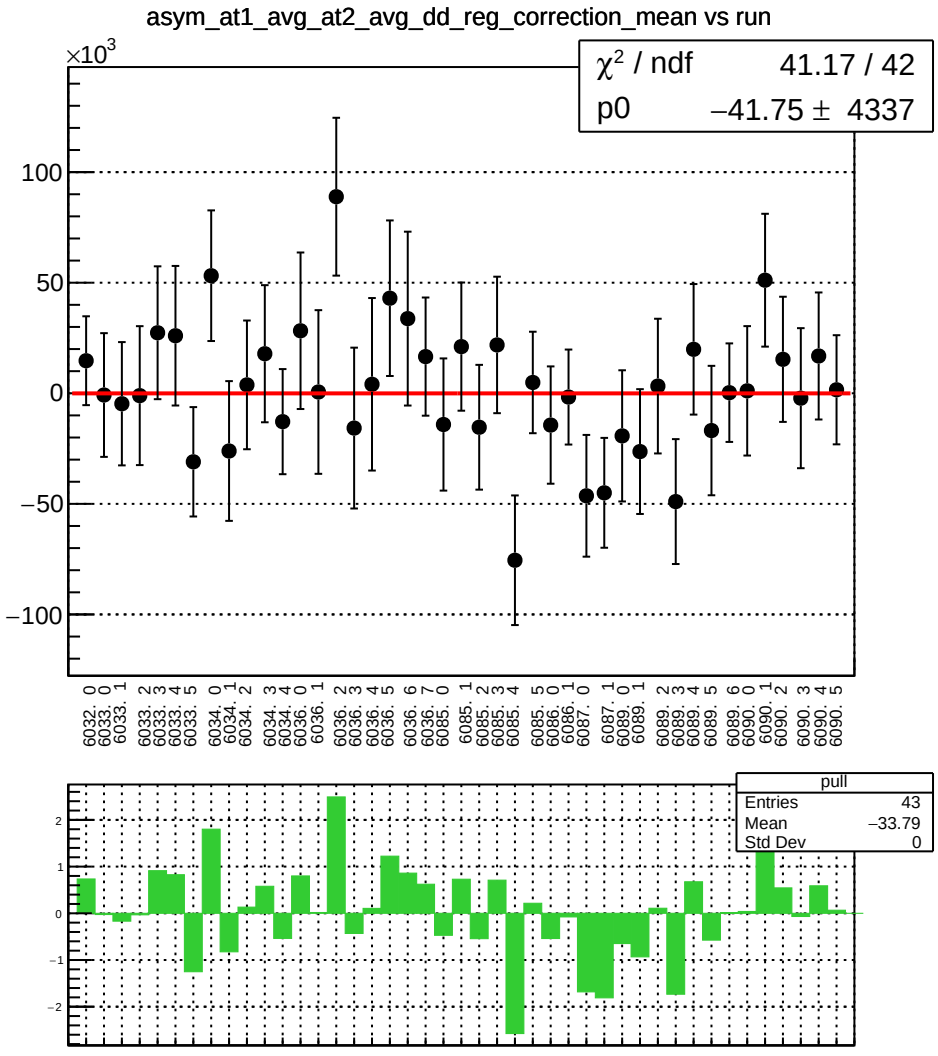

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.15 / 42
p0 −1.549e−13 ± 6.644e−14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 170.9
Std Dev 0
pull1D
Entries 43
Mean −0.009327
Std Dev 0.9168


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.291e+05 / 42
p0 3.465e−11 ± 4.698e−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
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 27.2 / 42
p0 −535.4 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −41.75 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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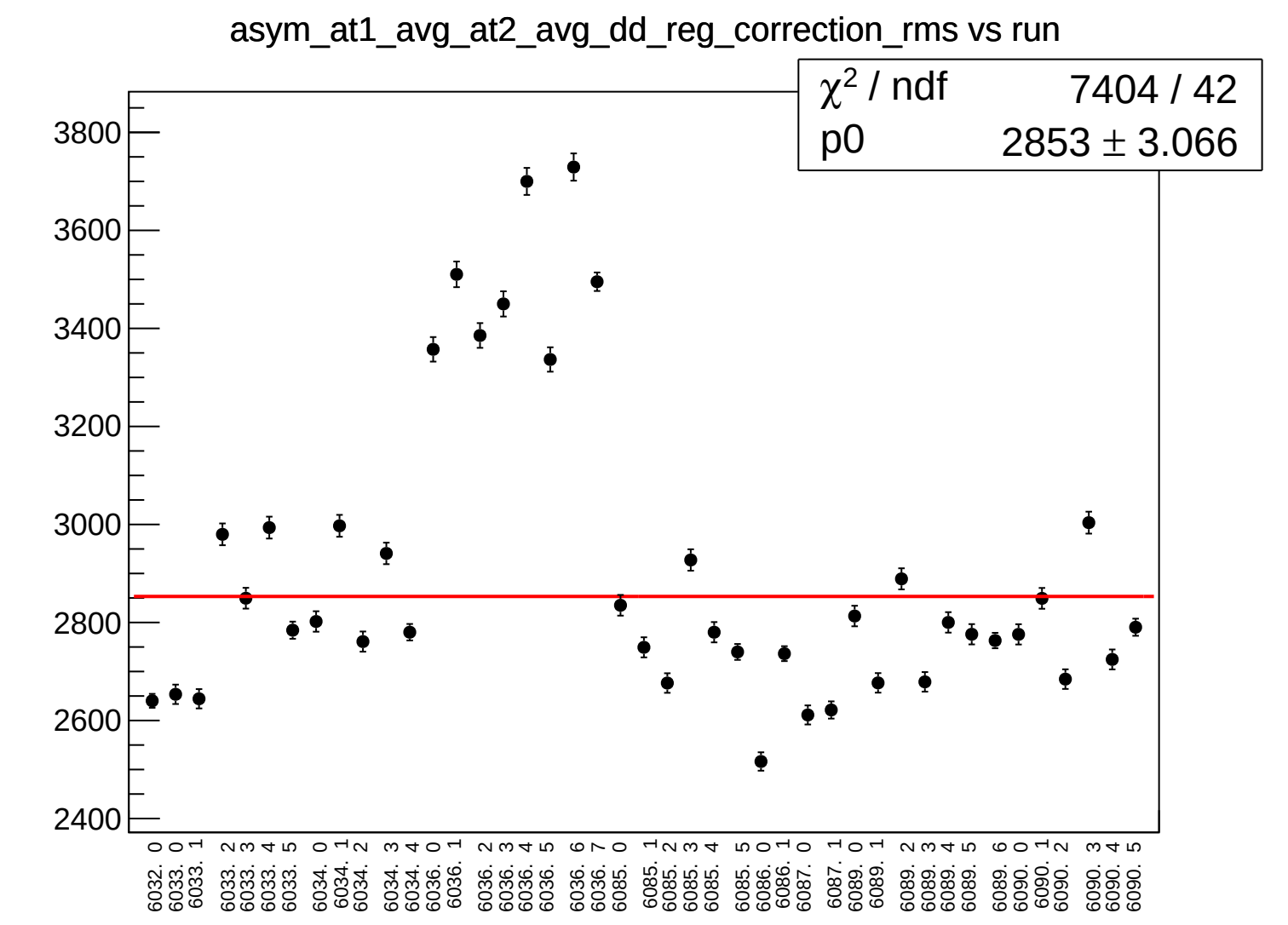
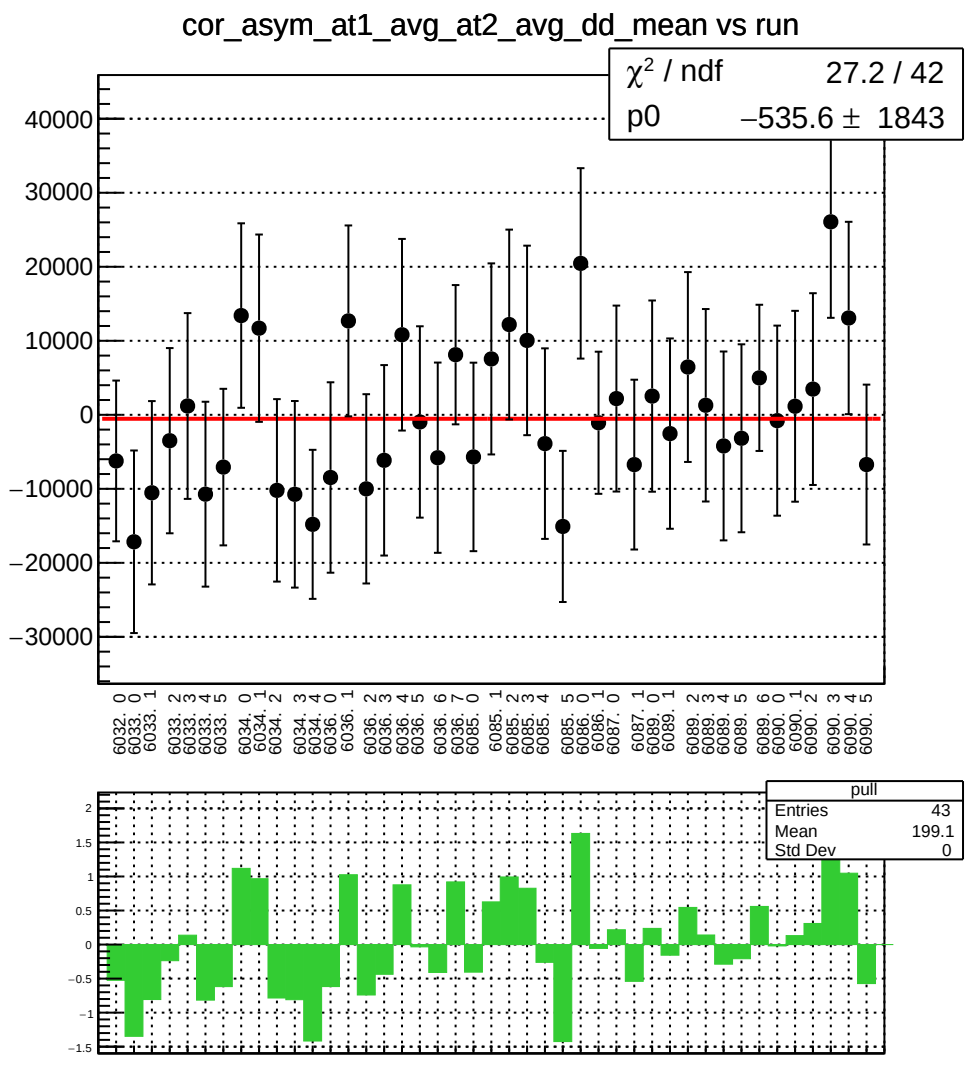
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 7404 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 27.2 / 42
p0 −535.6 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
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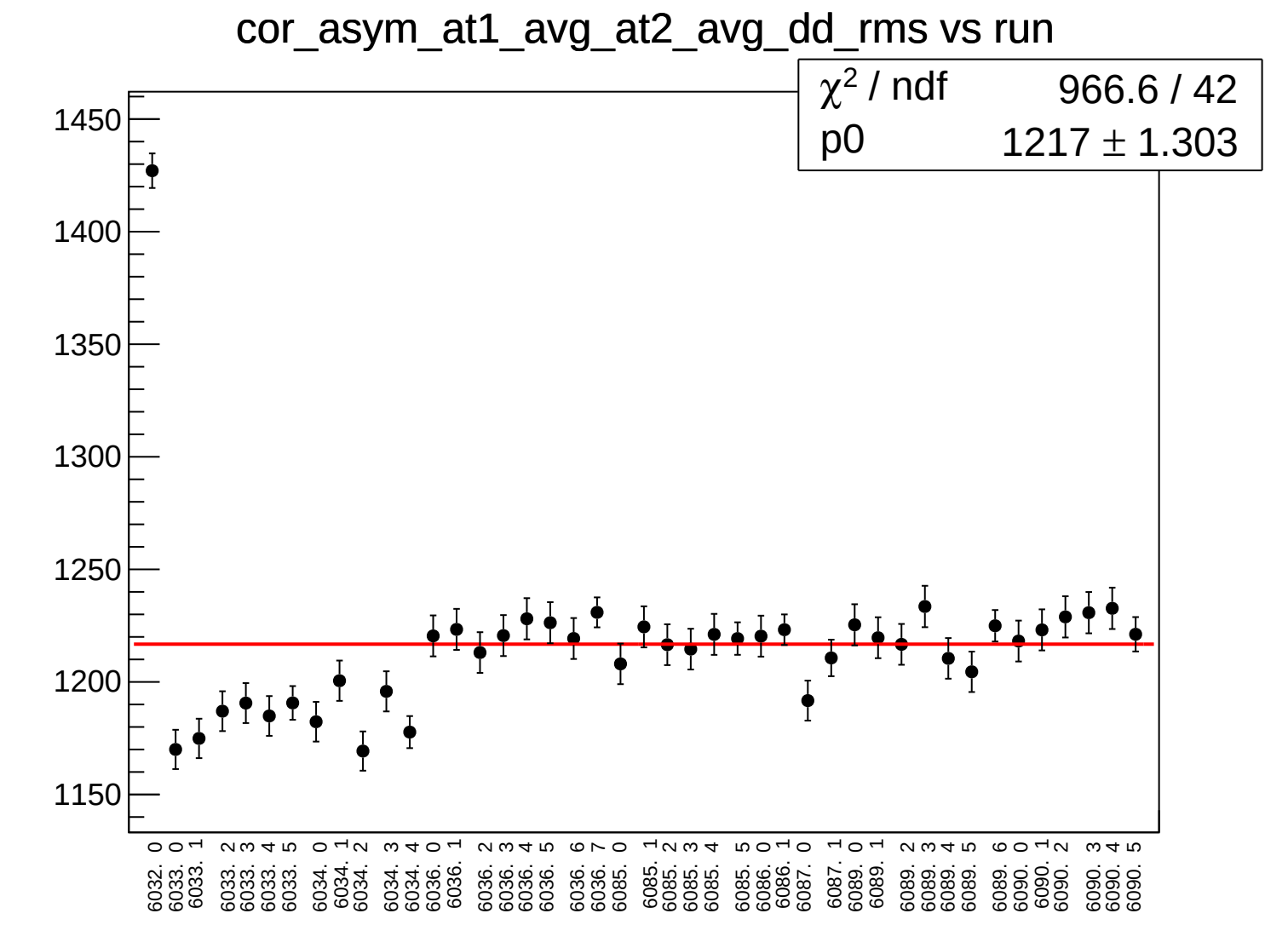
2
4
6
8


cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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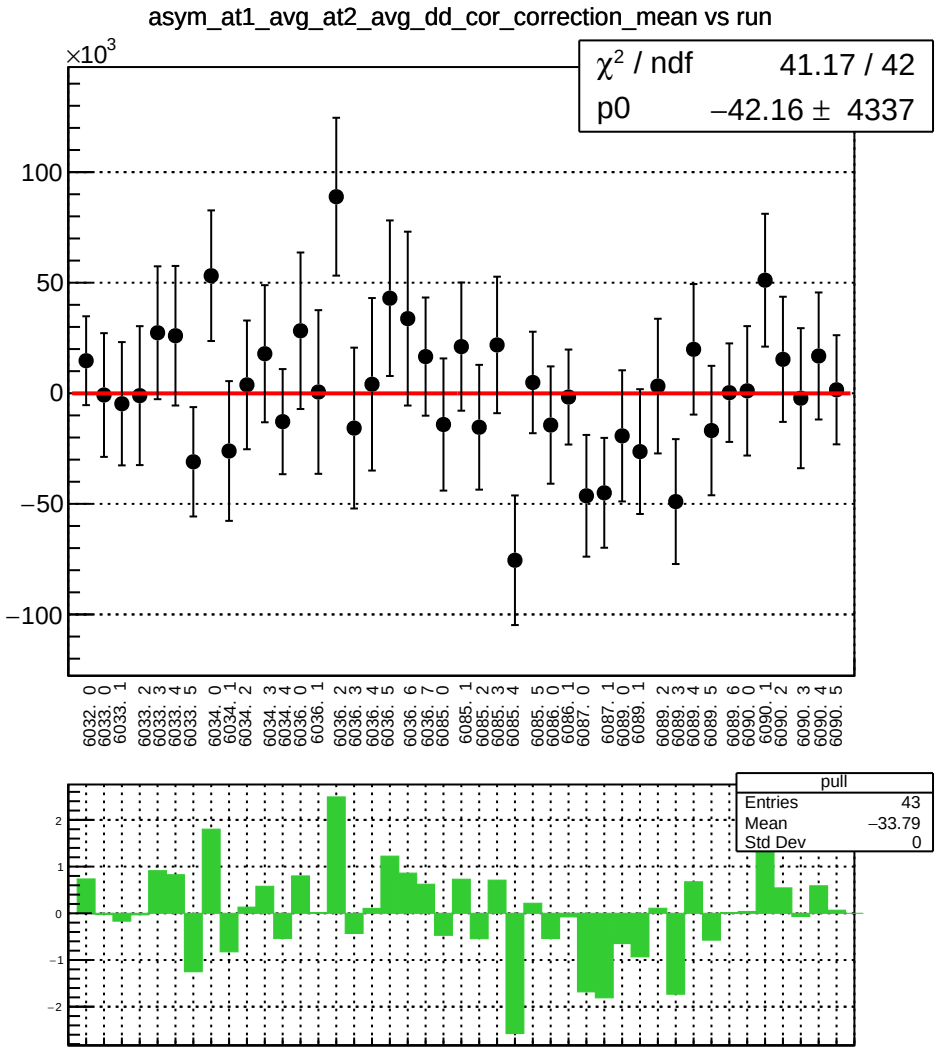
6090. 4
6090. 5


asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −42.16 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
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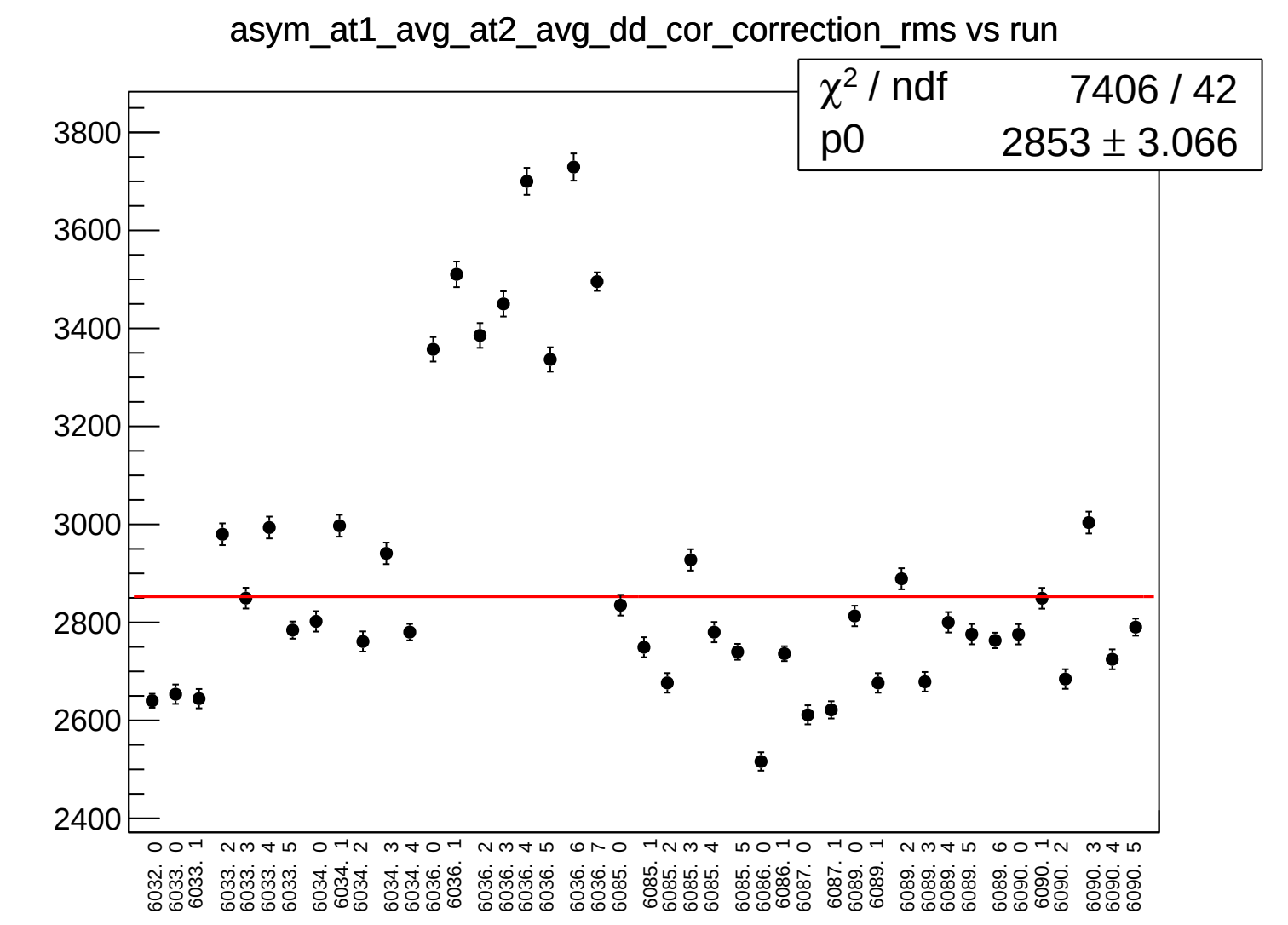
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 7406 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
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6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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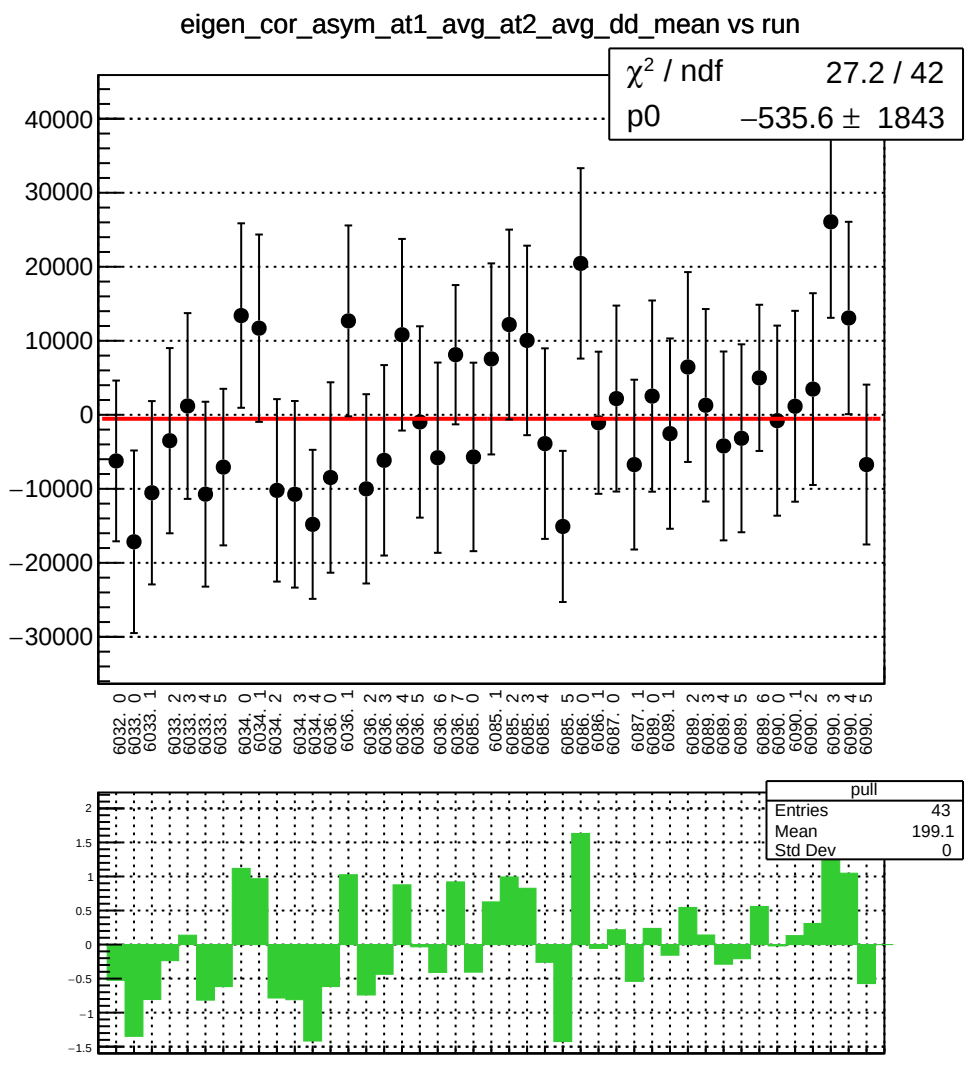
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 27.2 / 42
p0 −535.6 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 6
6036. 7
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6085. 2
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6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
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2
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6
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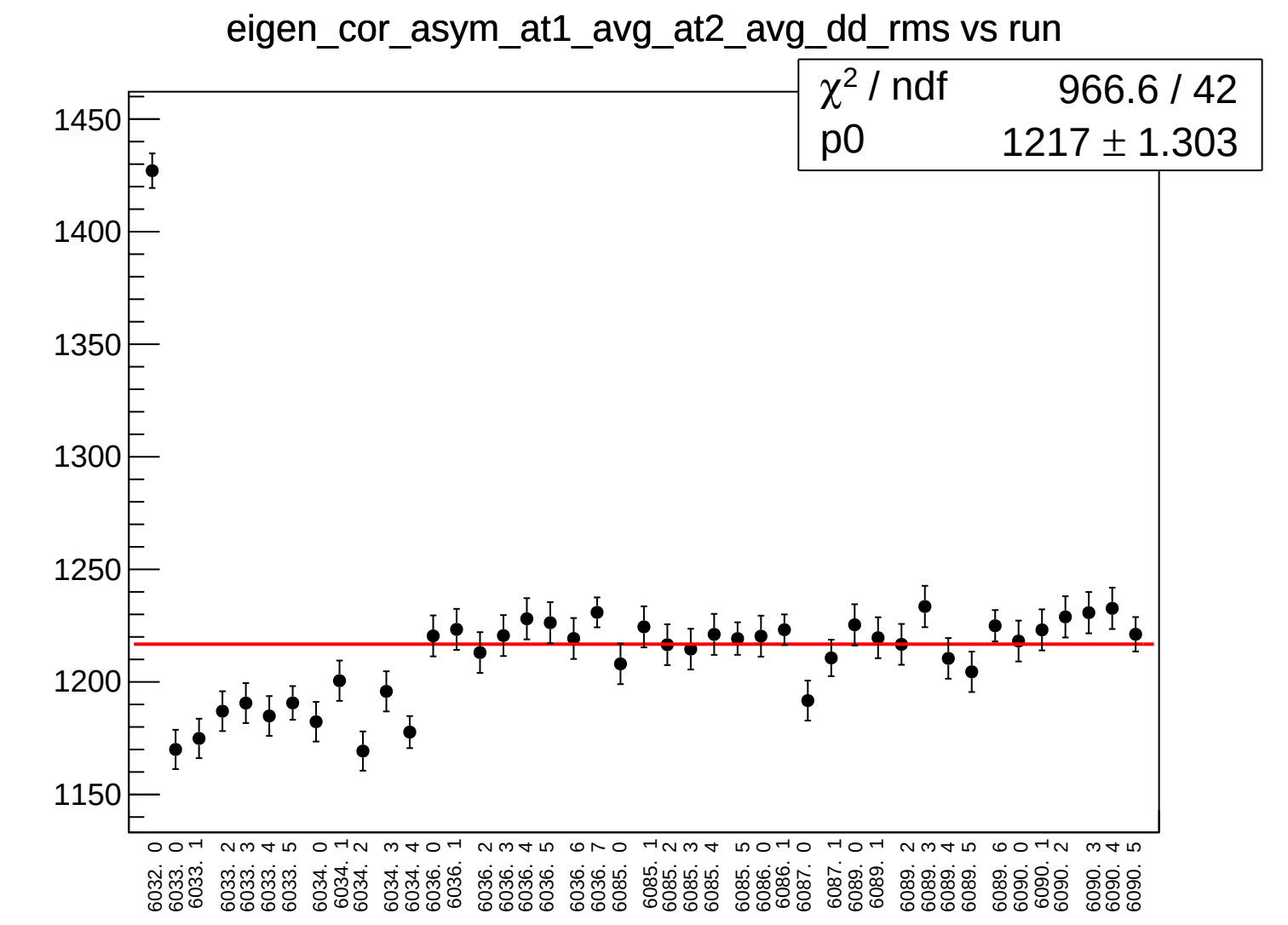
eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
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6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
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6089. 0
6089. 1
6089. 2
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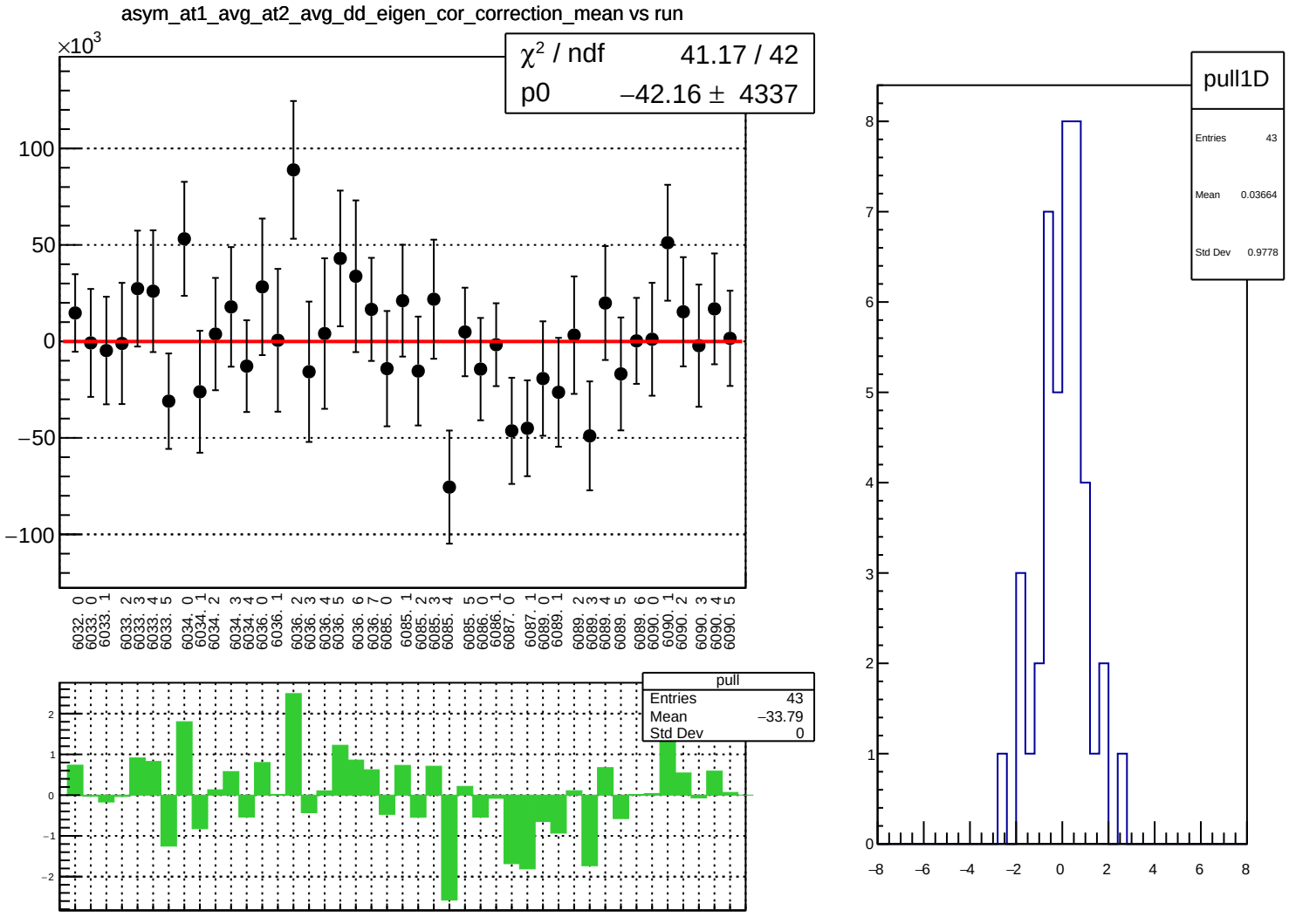
6090. 4
6090. 5


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −42.16 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
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6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
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6089. 2
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6089. 6
6090. 0
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6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
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5
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1
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−8
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−4
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2
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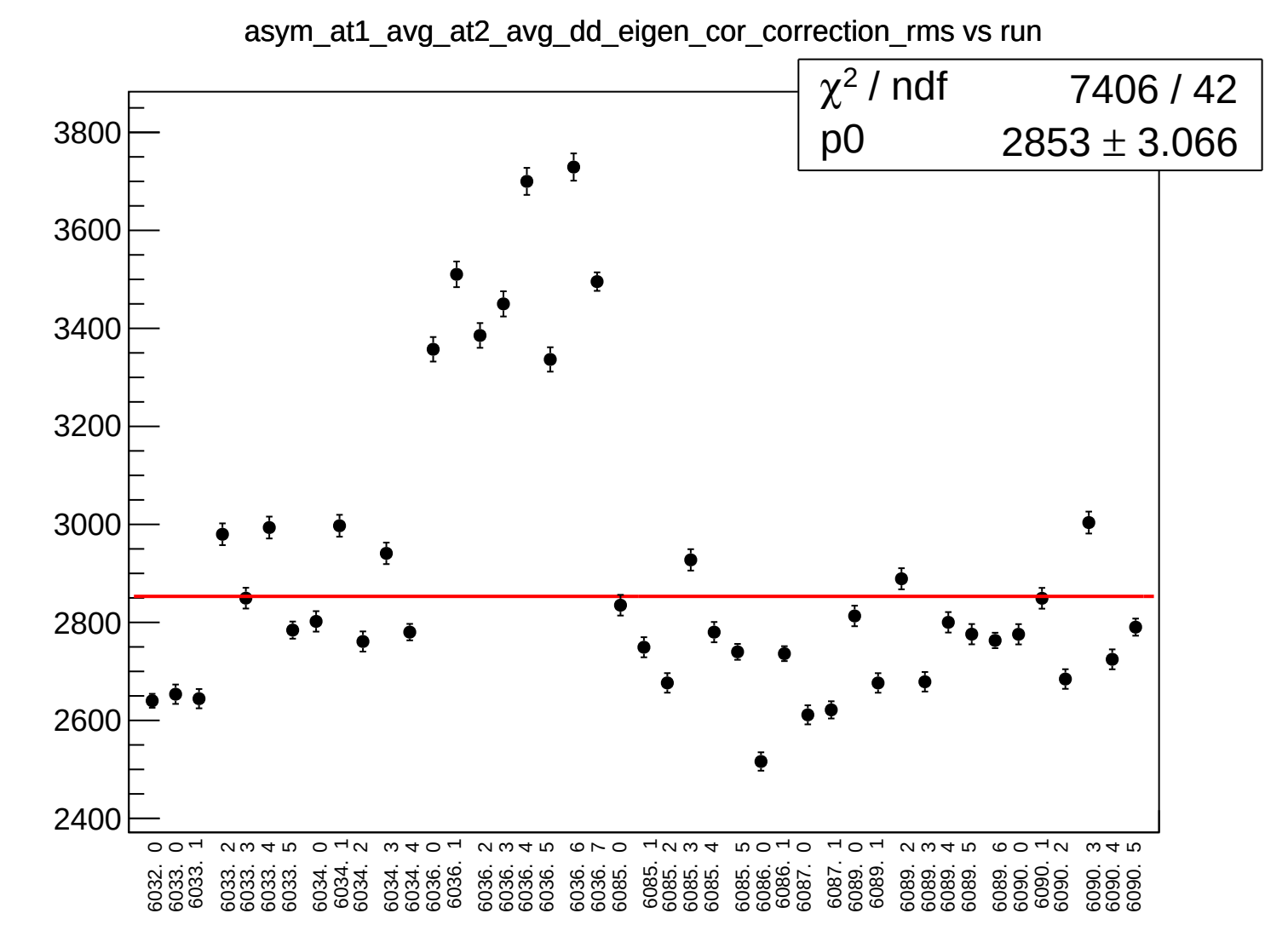
6
8


asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7406 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
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6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
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6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
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6090. 1
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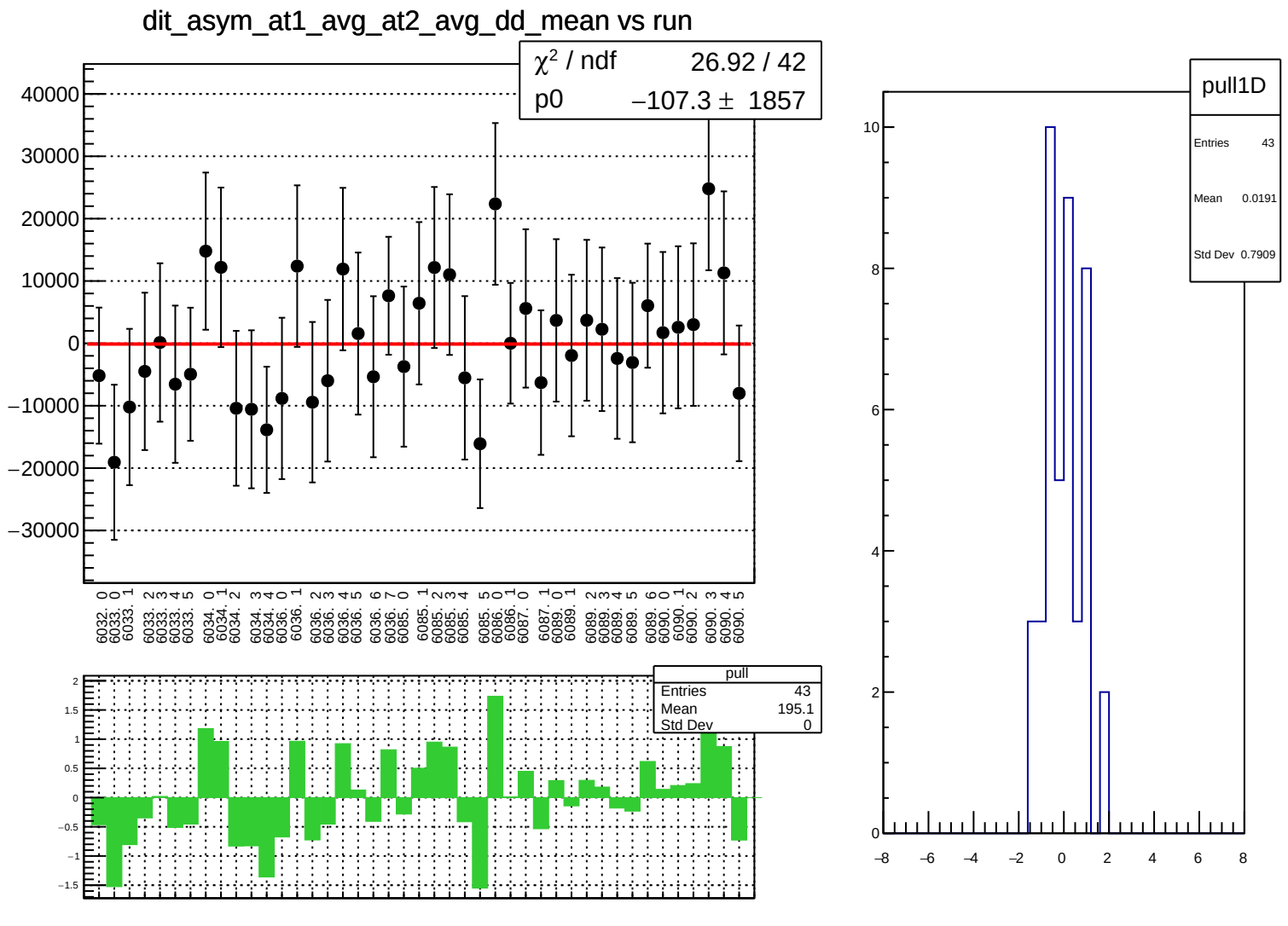
6090. 4
6090. 5


dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 26.92 / 42
p0 −107.3 ± 1857
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
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6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
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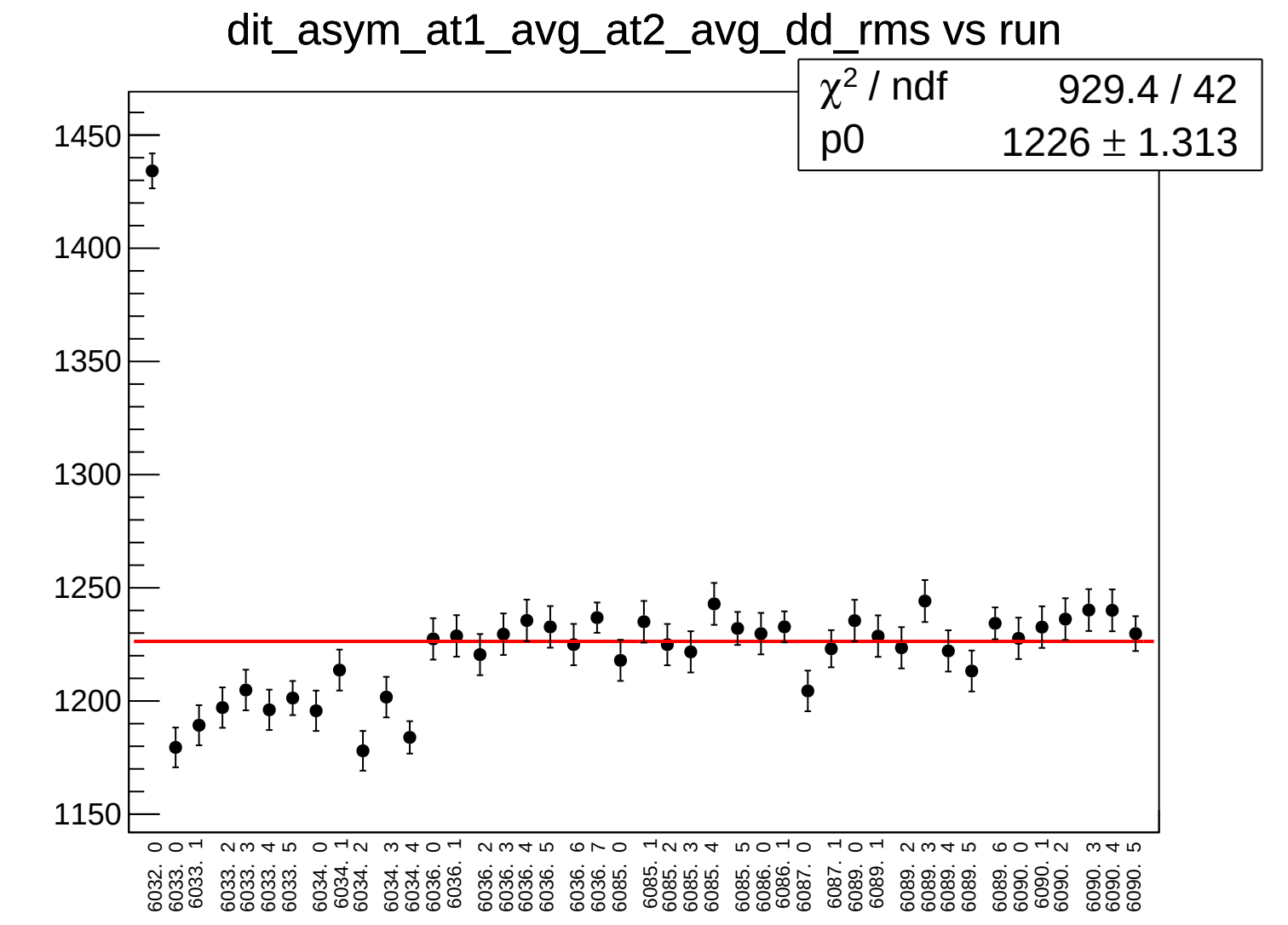
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0191
Std Dev 0.7909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 929.4 / 42
p0 1226 ± 1.313
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
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6089. 2
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6090. 1
6090. 2
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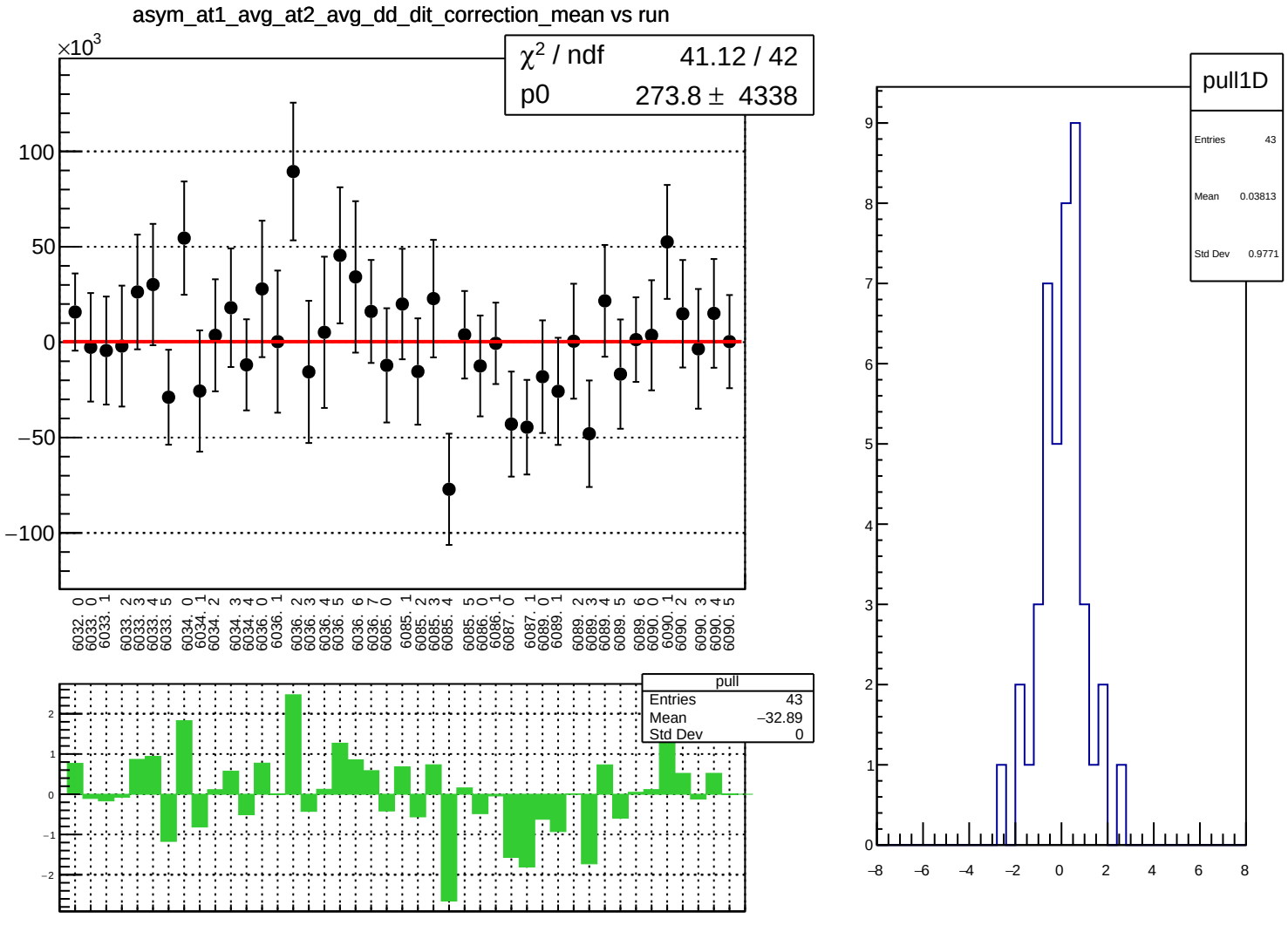
6090. 4
6090. 5


asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.12 / 42
p0 273.8 ± 4338
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
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6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03813
Std Dev 0.9771
9
8
7
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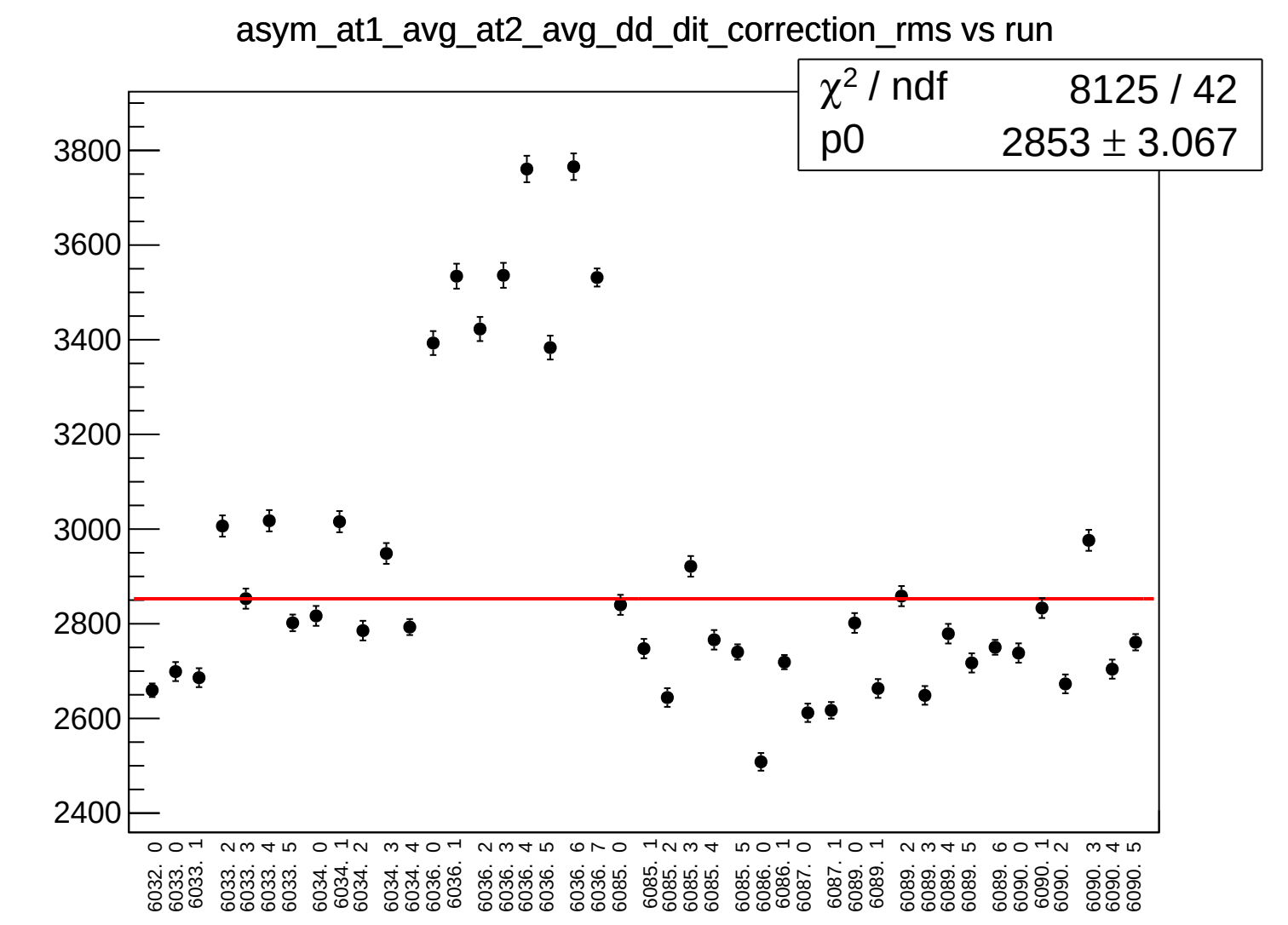
4
6
8


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 8125 / 42
p0 2853 ± 3.067
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
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6036. 7
6085. 0
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6085. 2
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6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6090. 2
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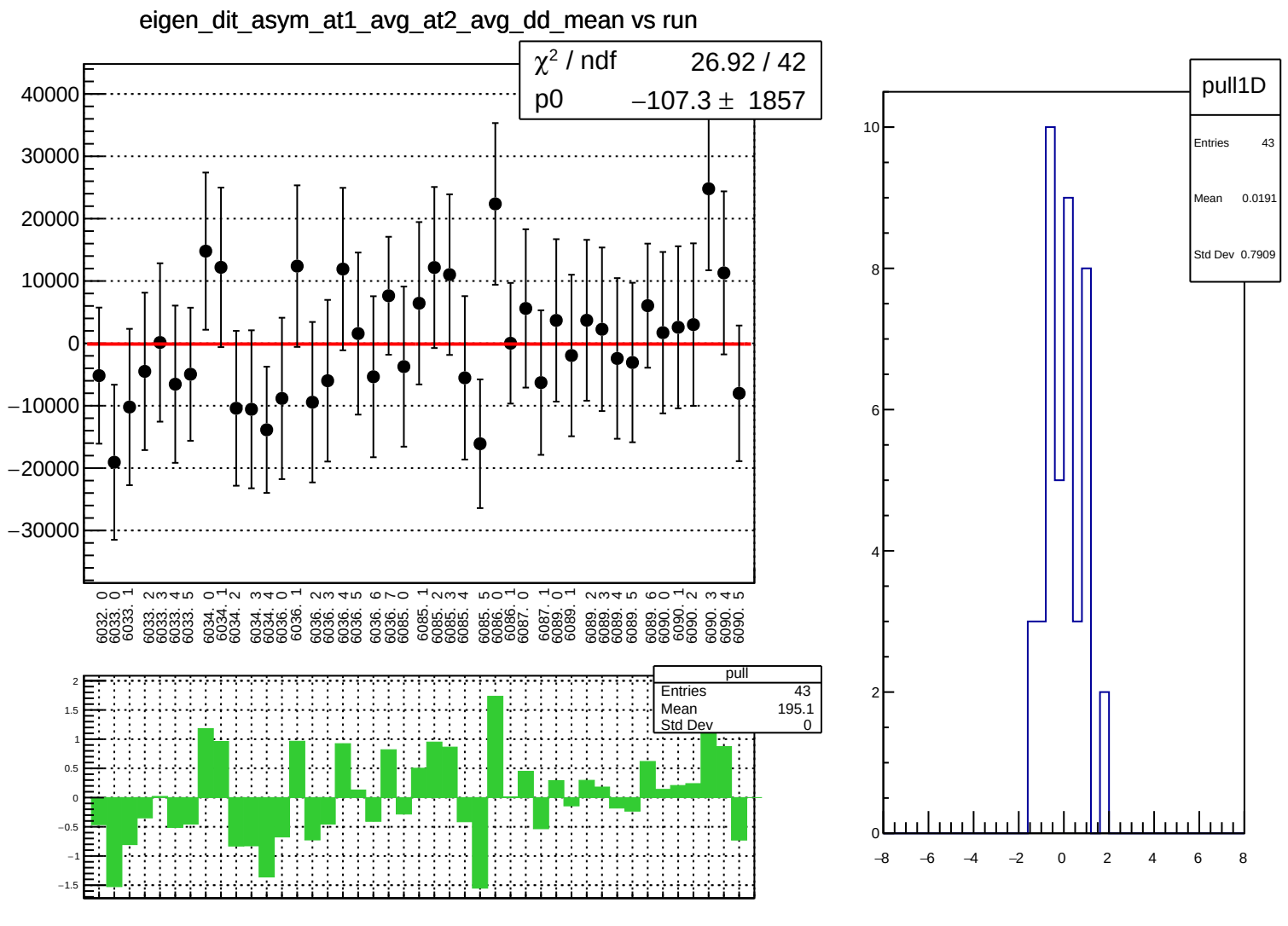
6090. 5


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 26.92 / 42
p0 −107.3 ± 1857
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
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6036. 1
6036. 2
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6036. 6
6036. 7
6085. 0
6085. 1
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6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0191
Std Dev 0.7909
10
8
6
4
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−4
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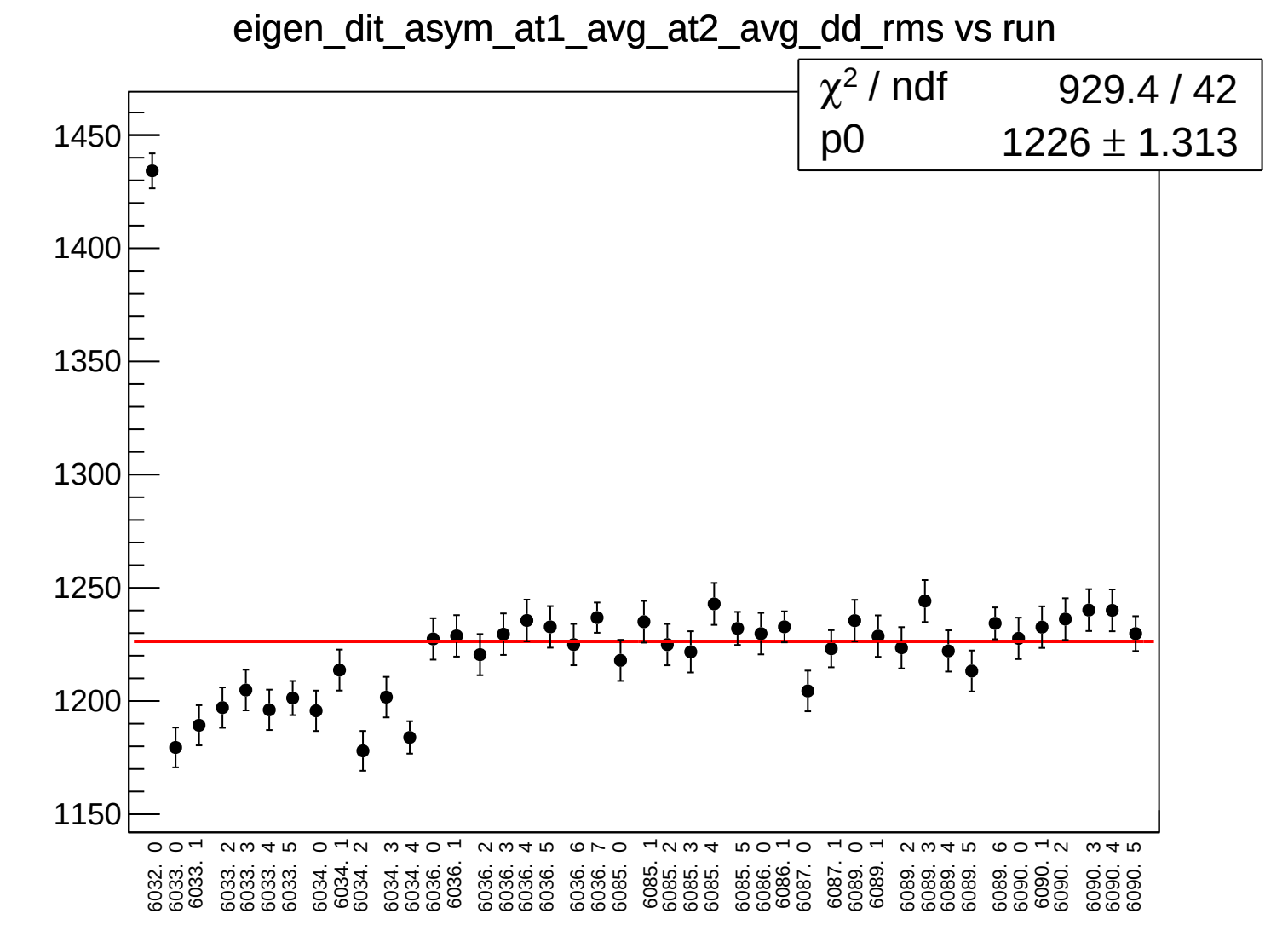
8


eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 929.4 / 42
p0 1226 ± 1.313
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
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6085. 5
6086. 0
6086. 1
6087. 0
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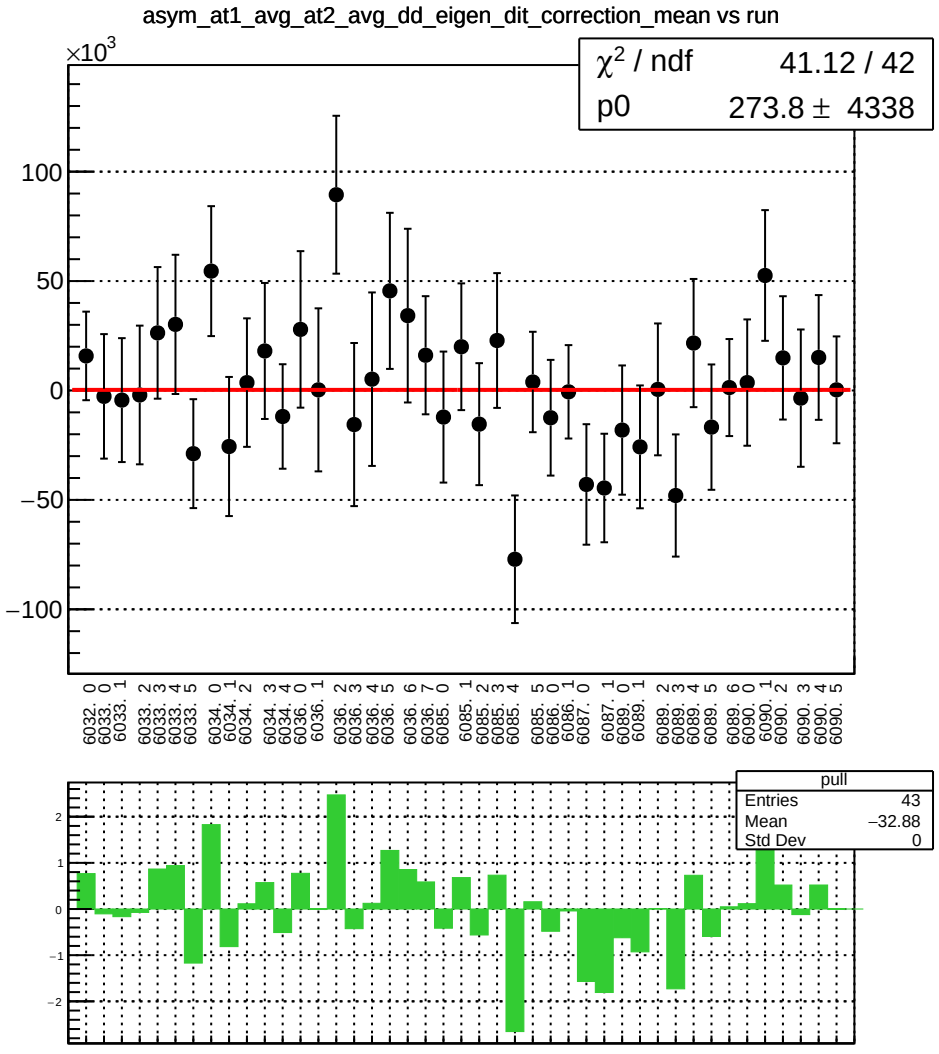
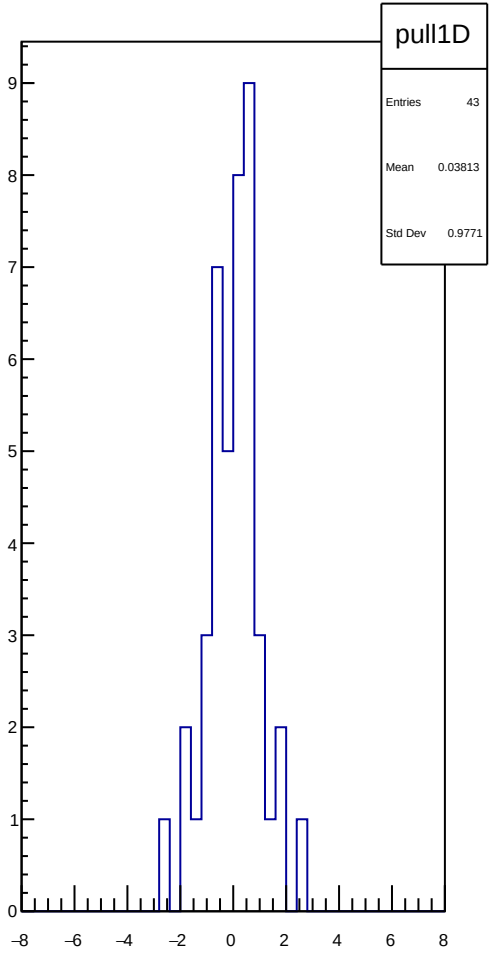
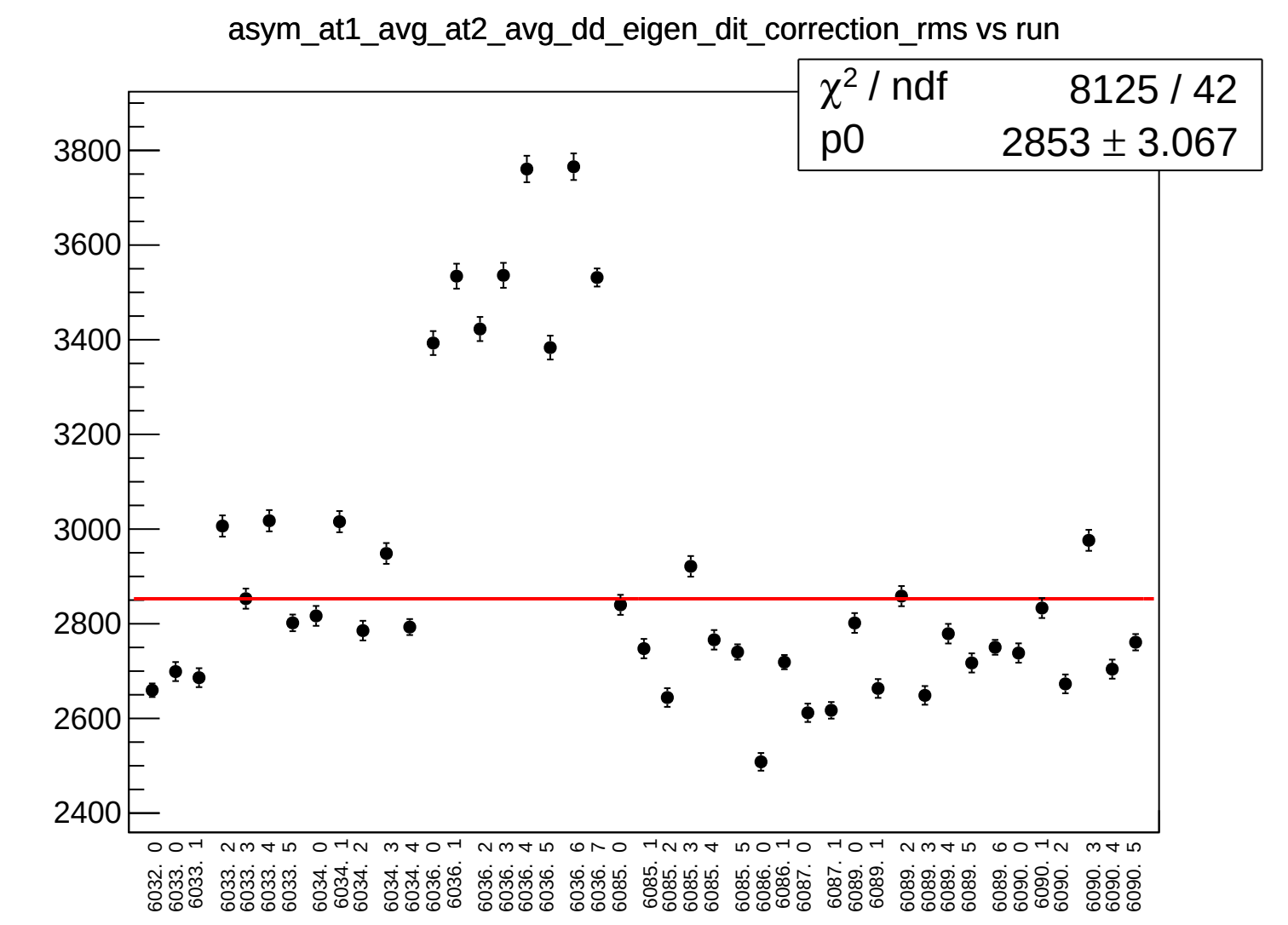
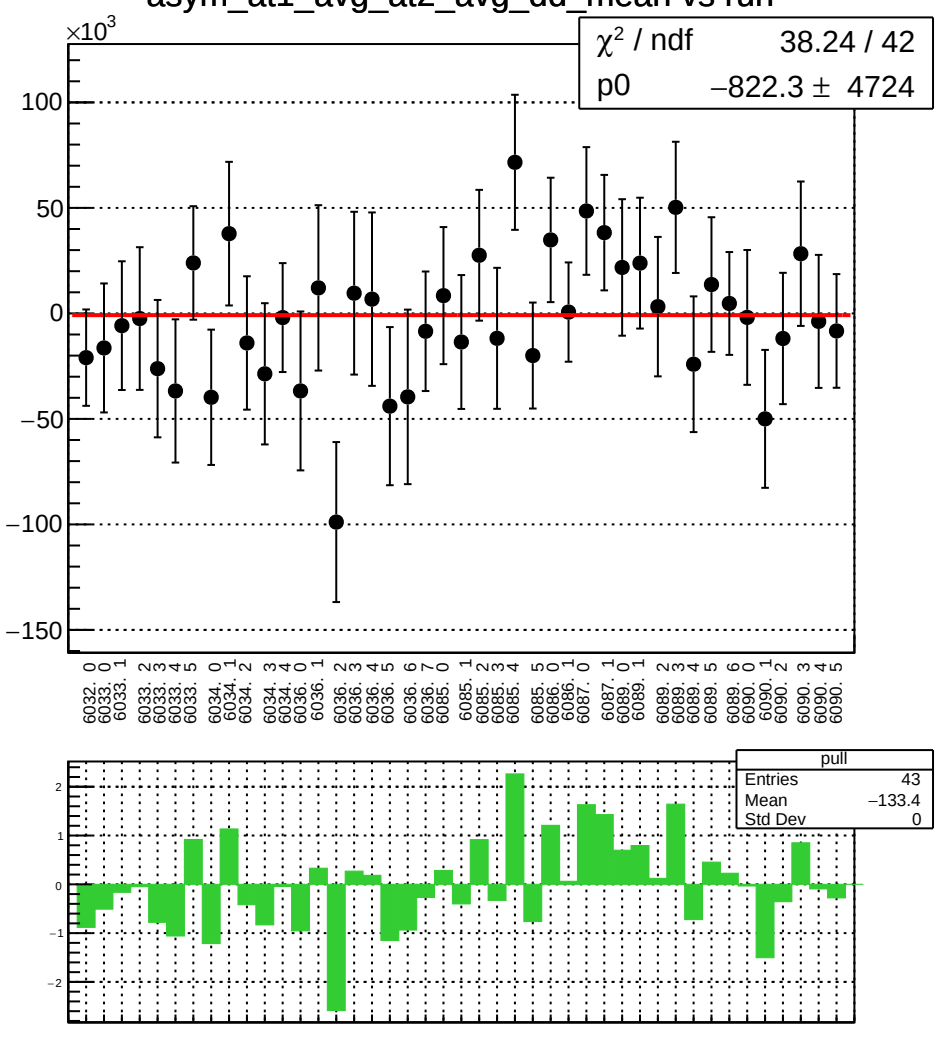
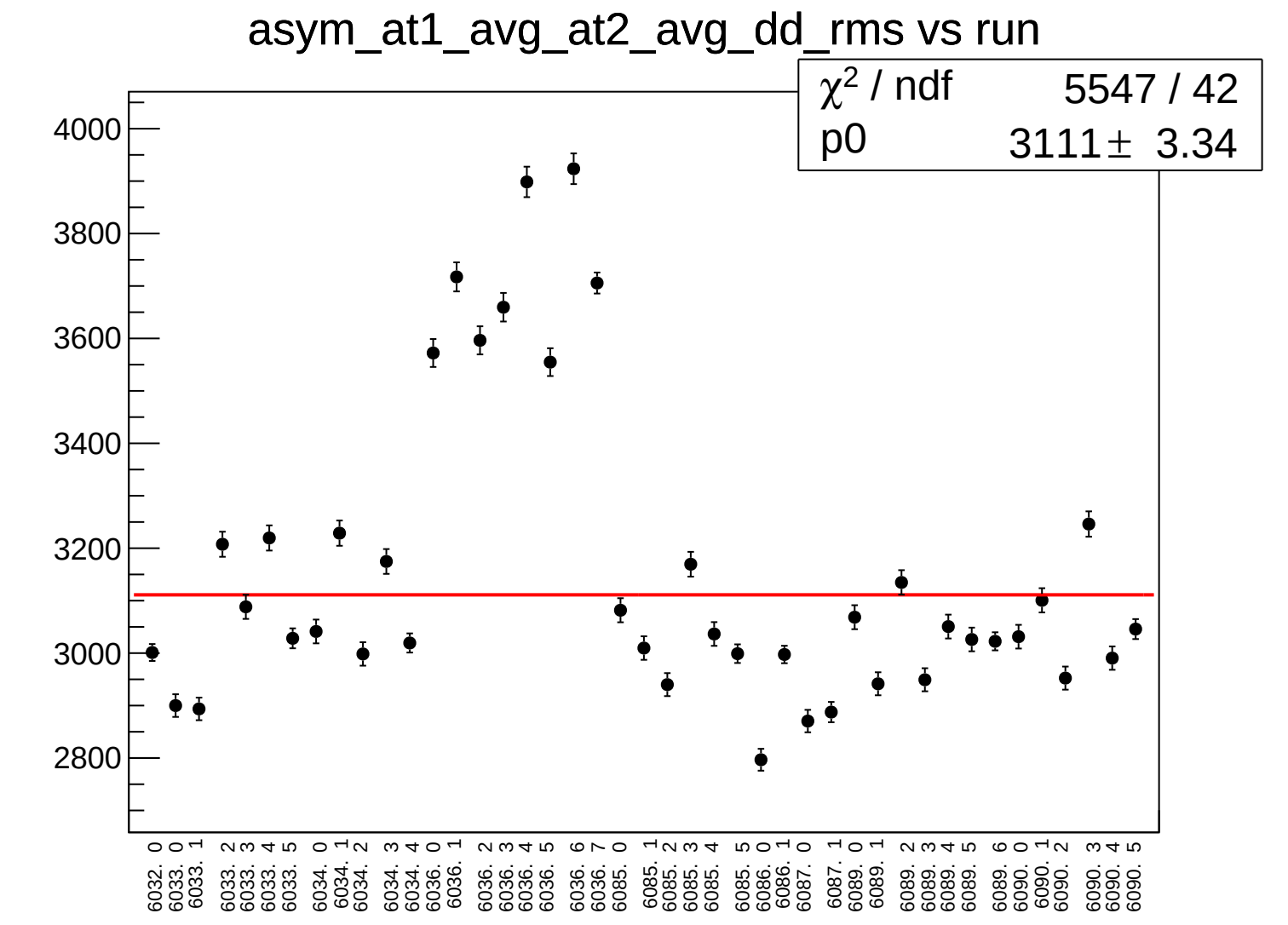
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

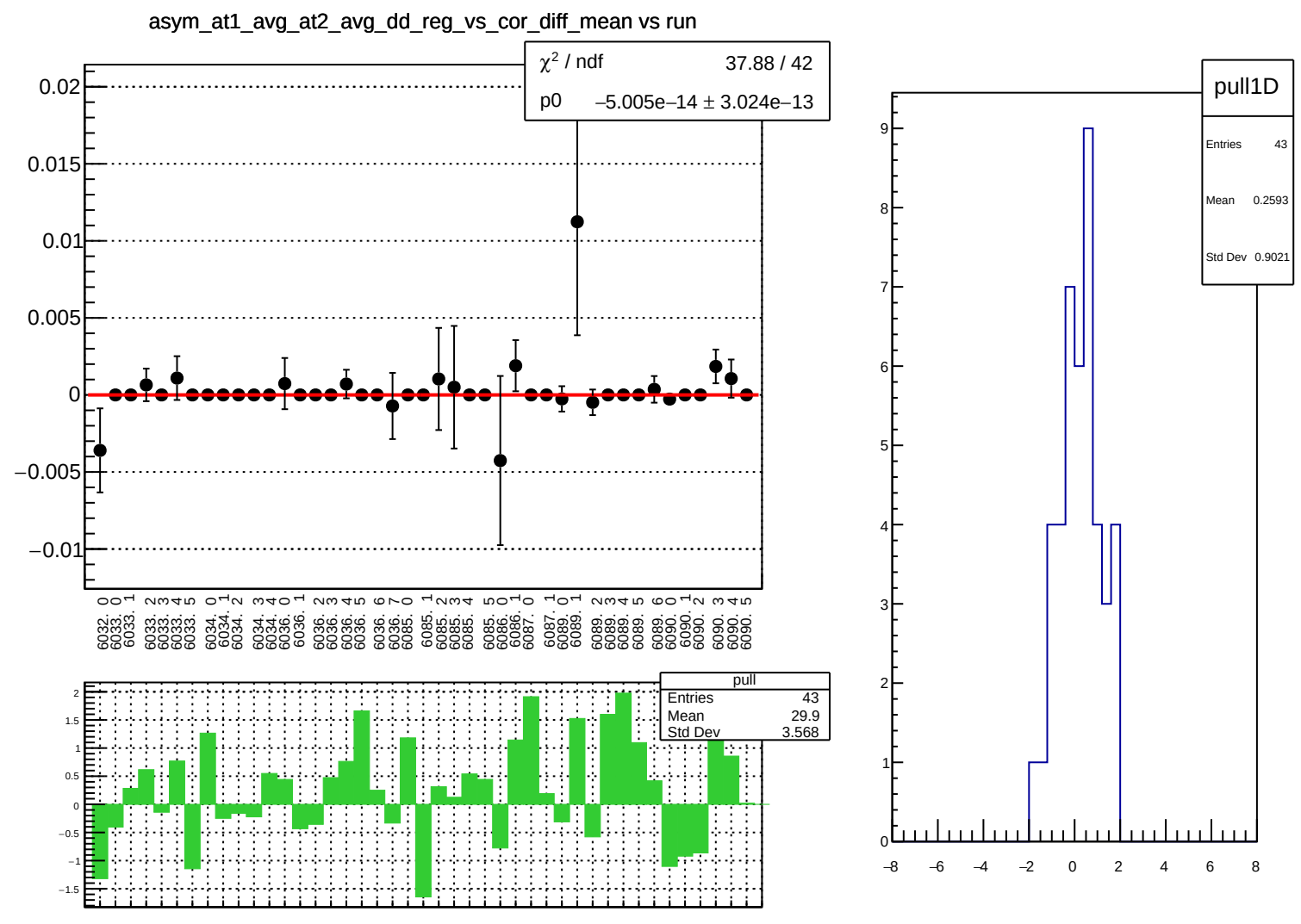

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.12 / 42
p0 273.8 ± 4338
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.88
Std Dev 0
2
1
0
−1
−2

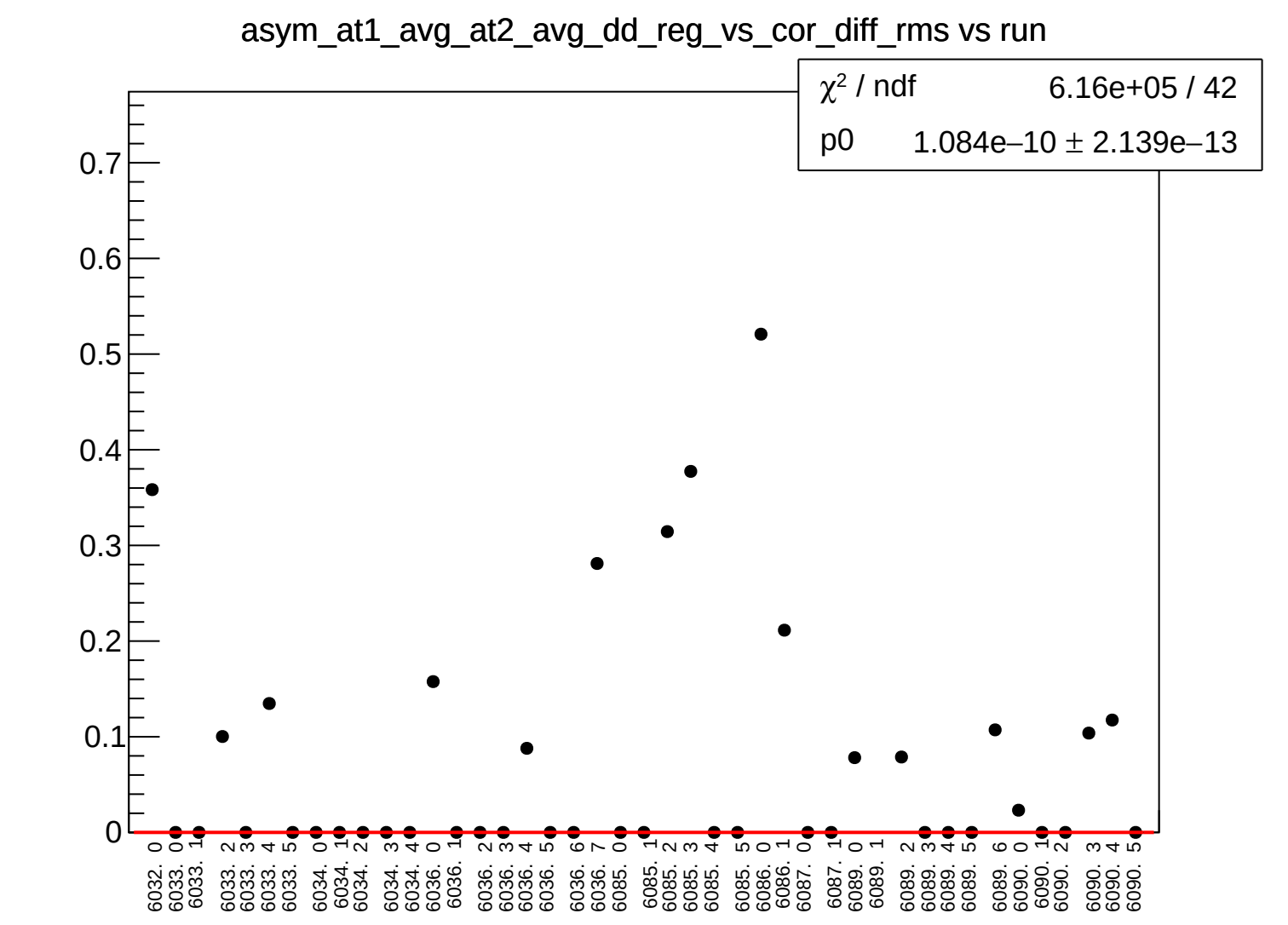

pull1D
Entries 43
Mean 0.03813
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

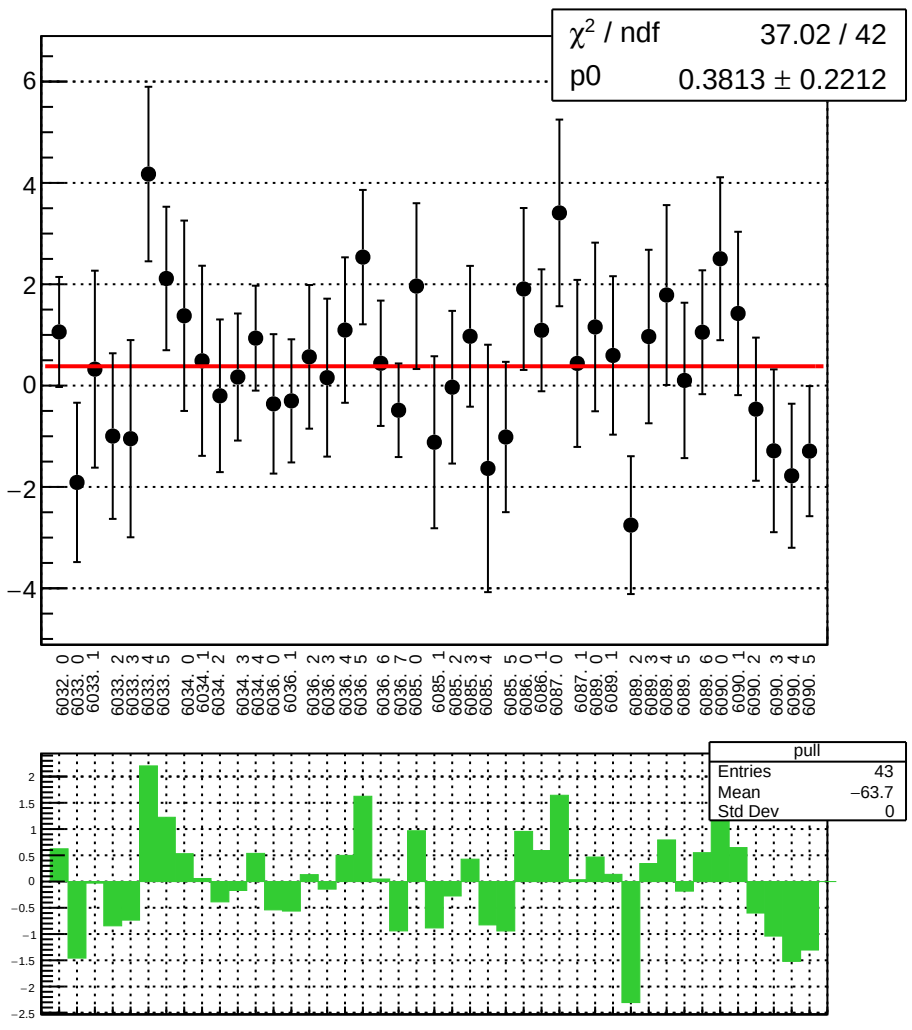

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8125 / 42
p0 2853 ± 3.067
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

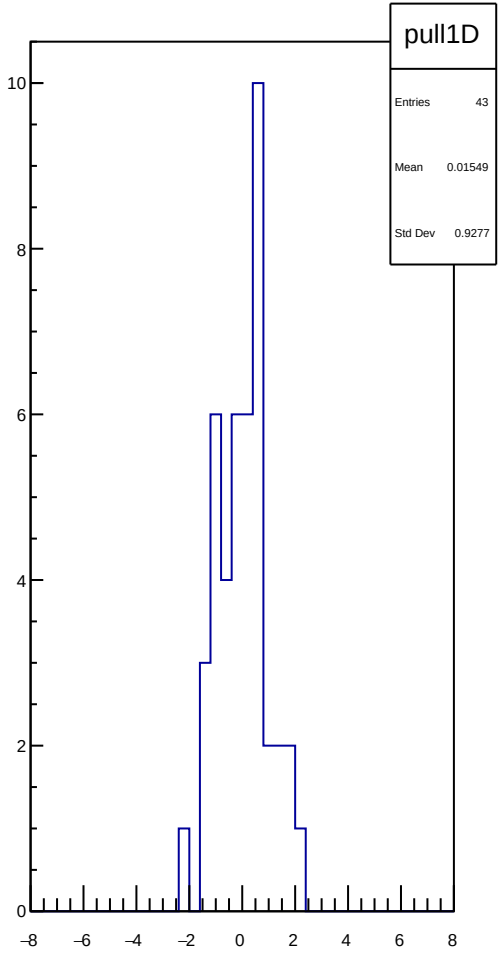

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 38.24 / 42
p0 −822.3 ± 4724
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −133.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02101
Std Dev 0.9428
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

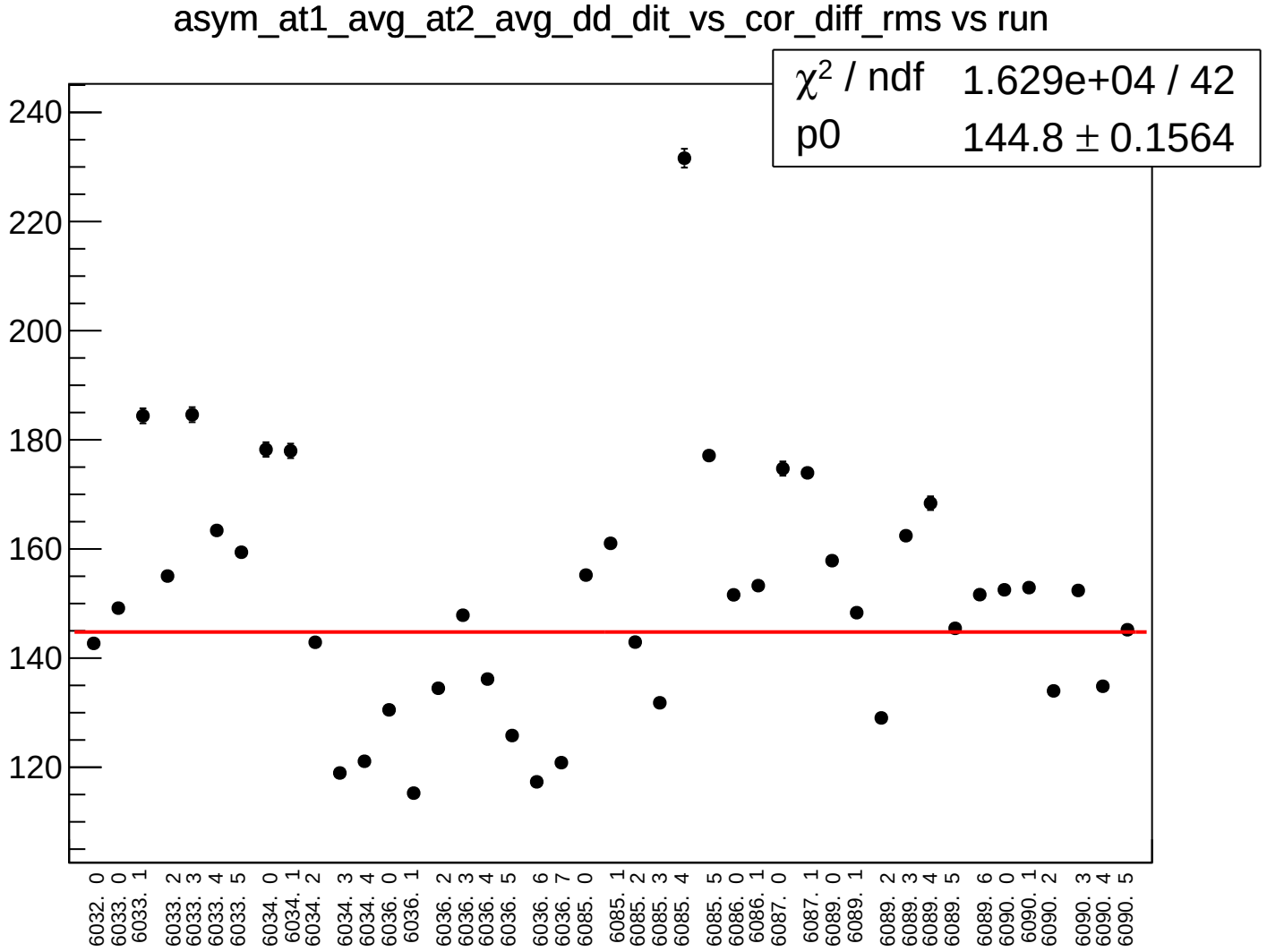

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 5547 / 42
p0 3111 ± 3.34
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

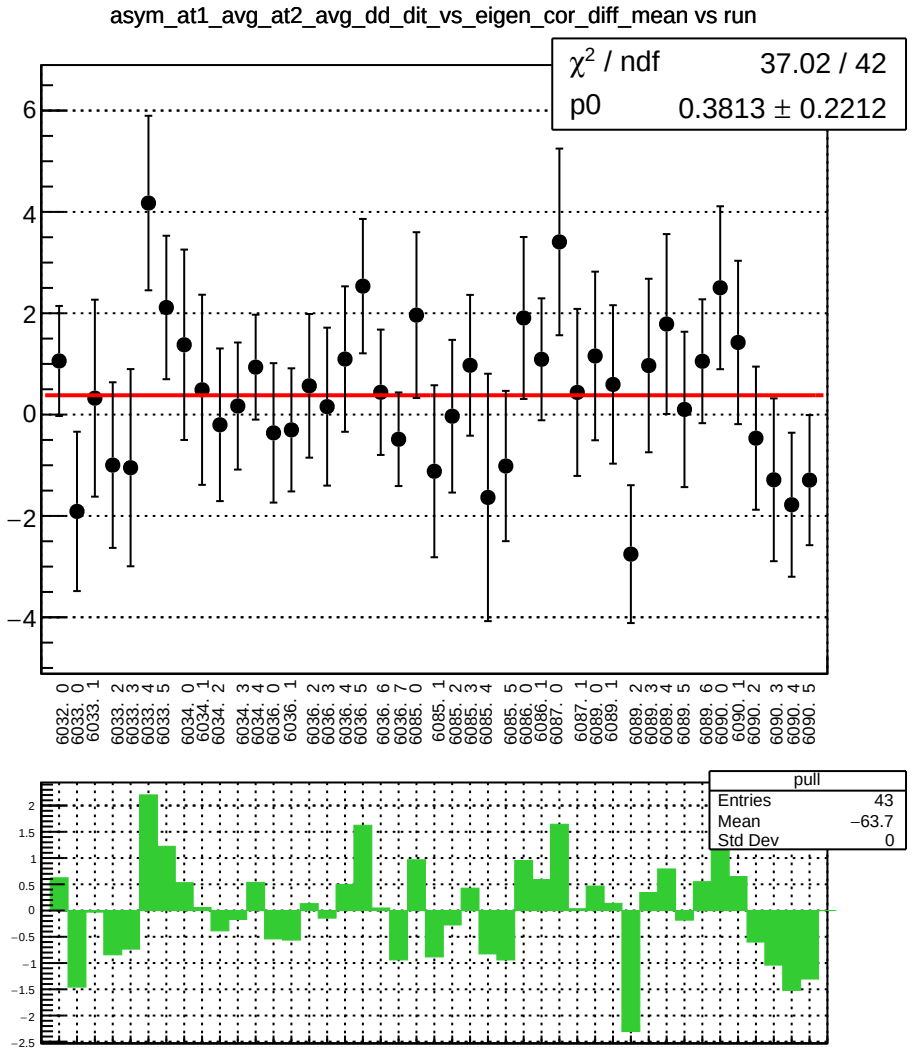

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.88 / 42
p0 −5.005e−14 ± 3.024e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 29.9
Std Dev 3.568
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2593
Std Dev 0.9021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

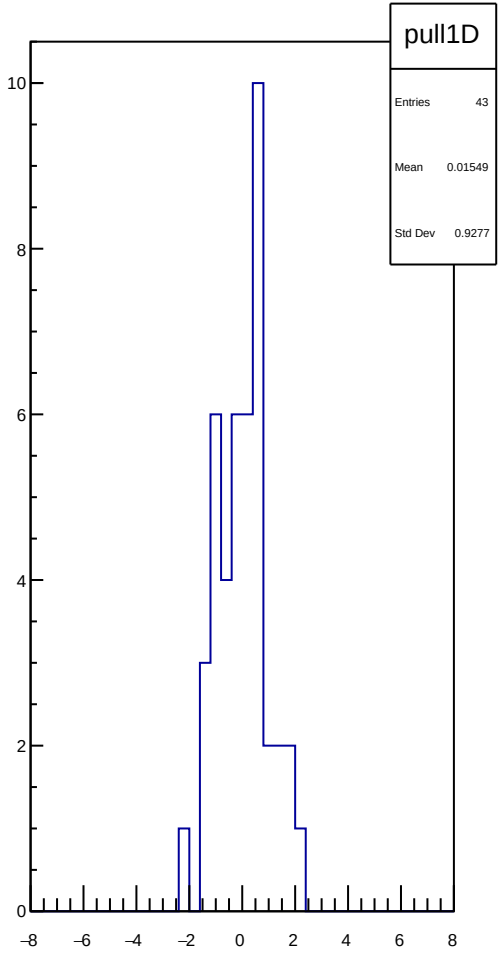

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.16e+05 / 42
p0 1.084e−10 ± 2.139e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

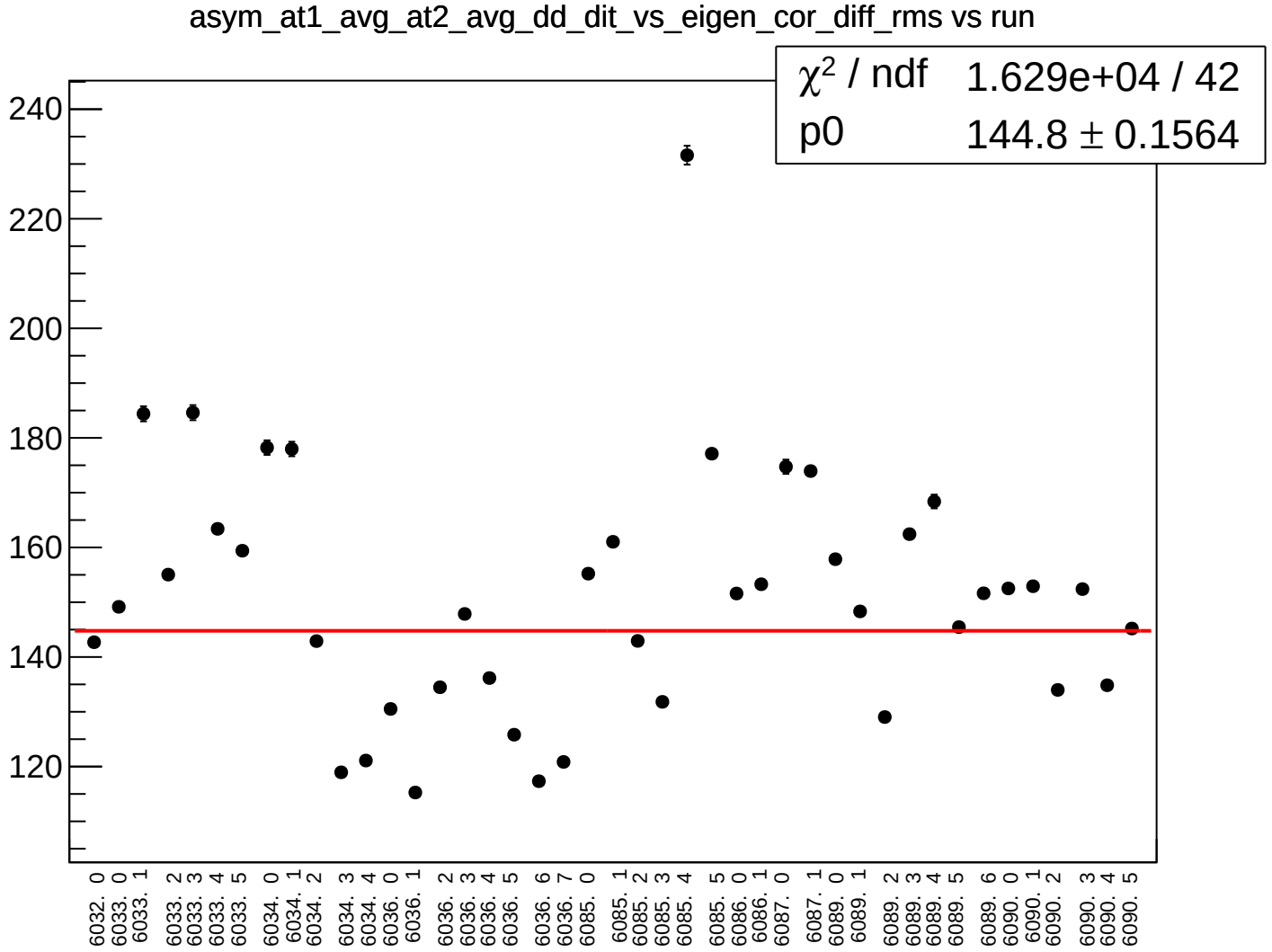

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
pull
Entries 43
Mean −63.7
Std Dev 0

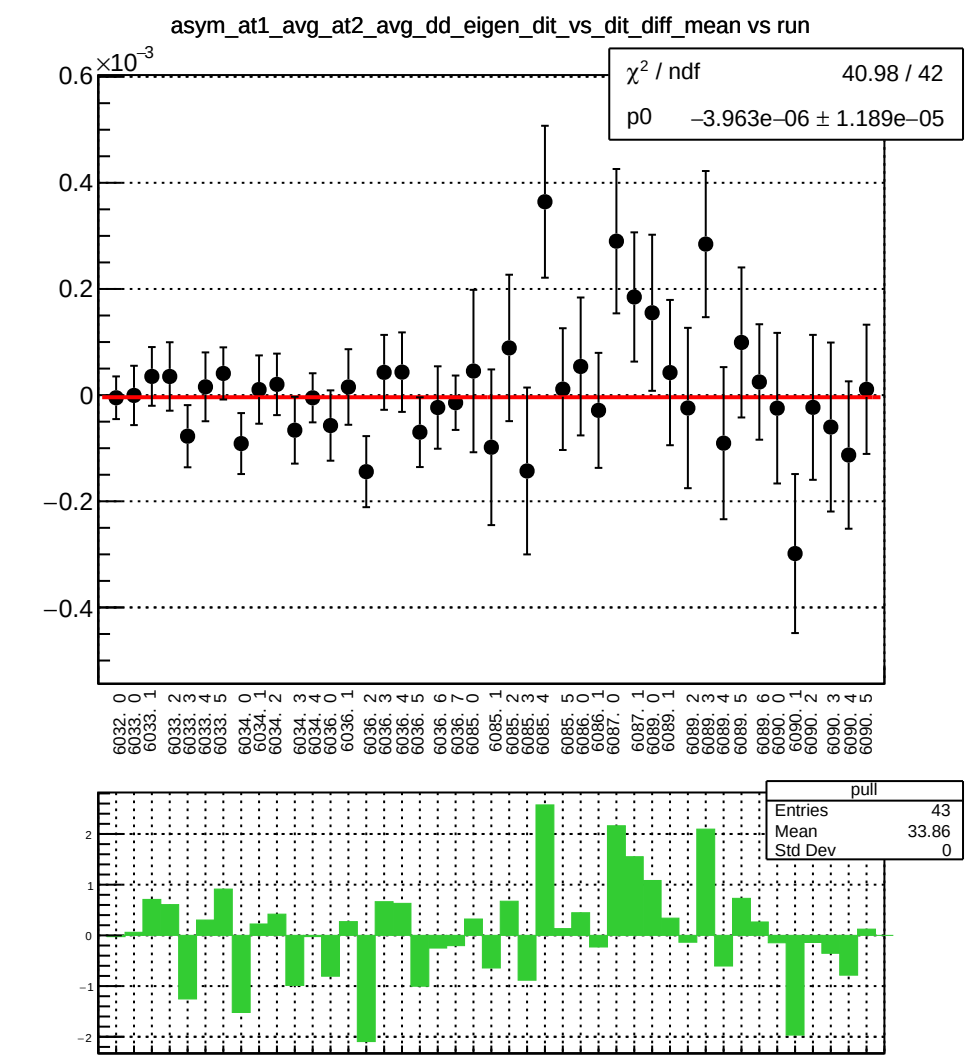

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277

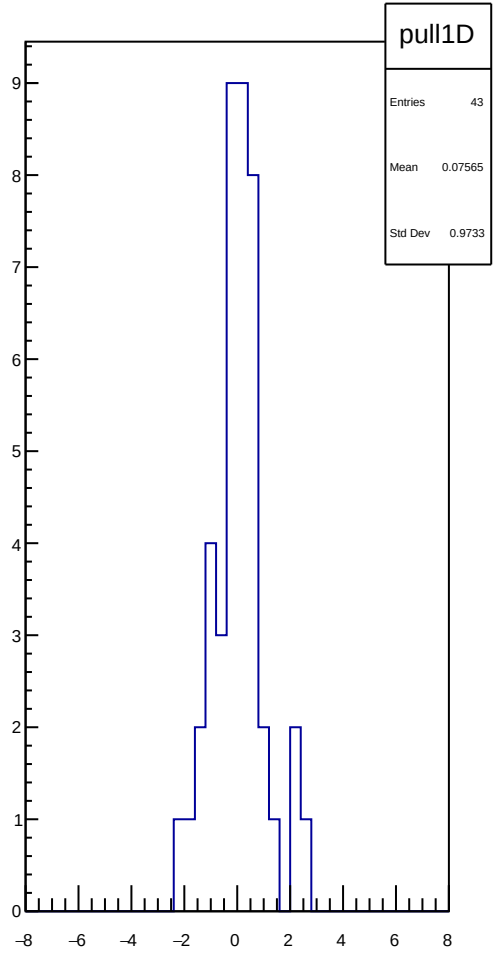

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

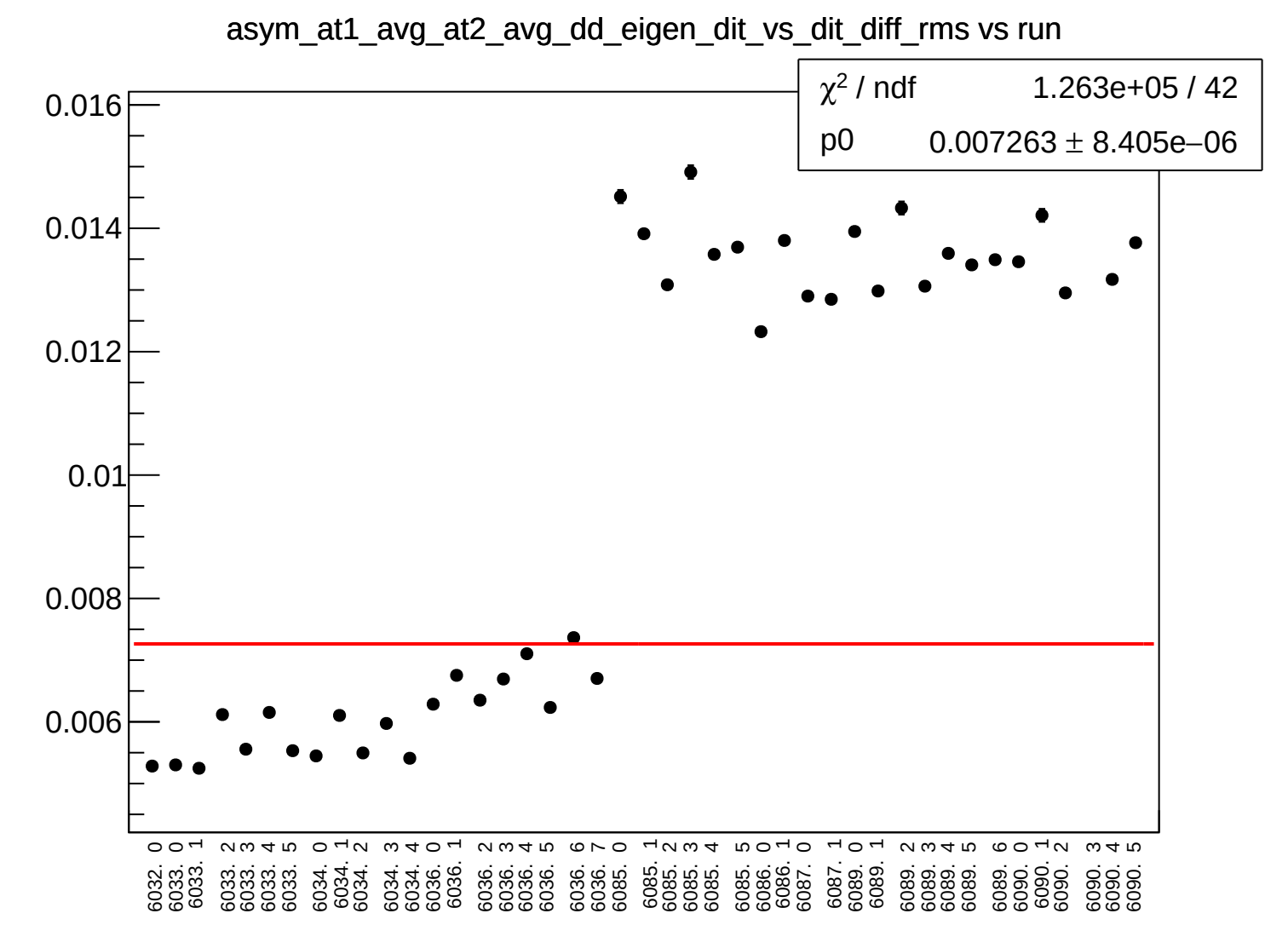

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

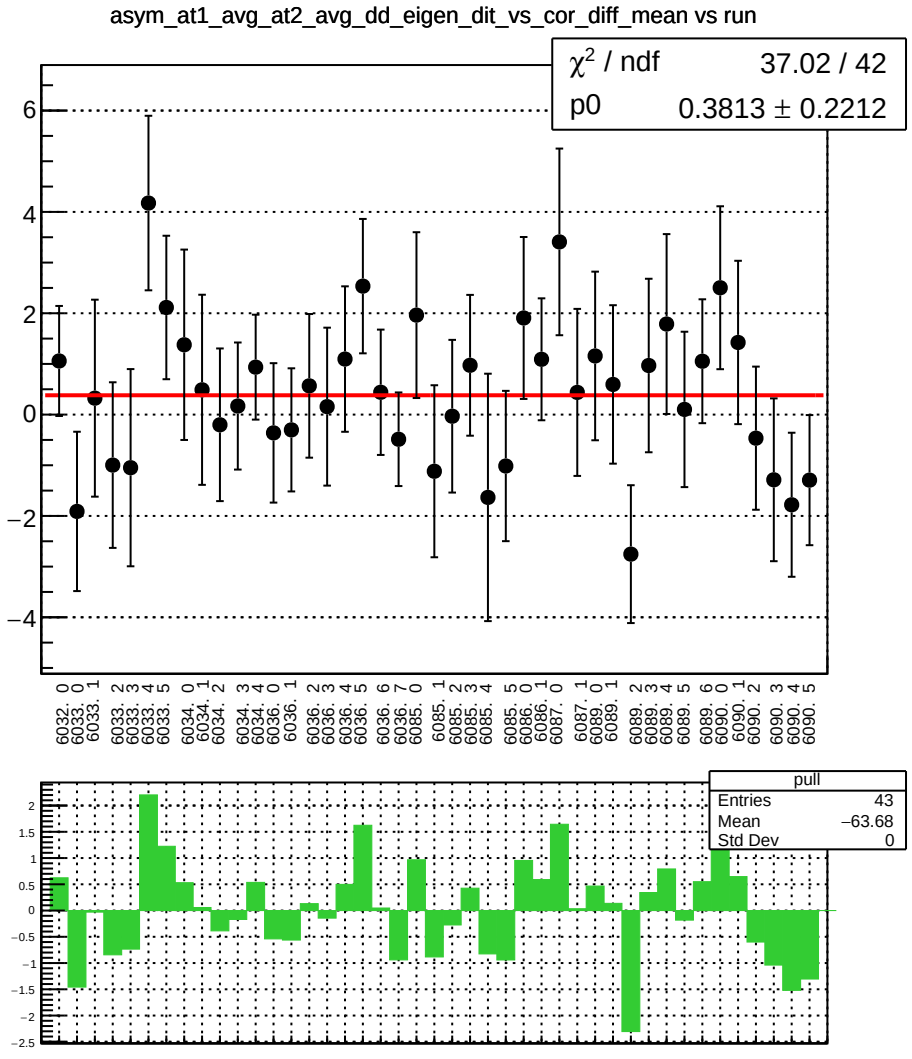

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

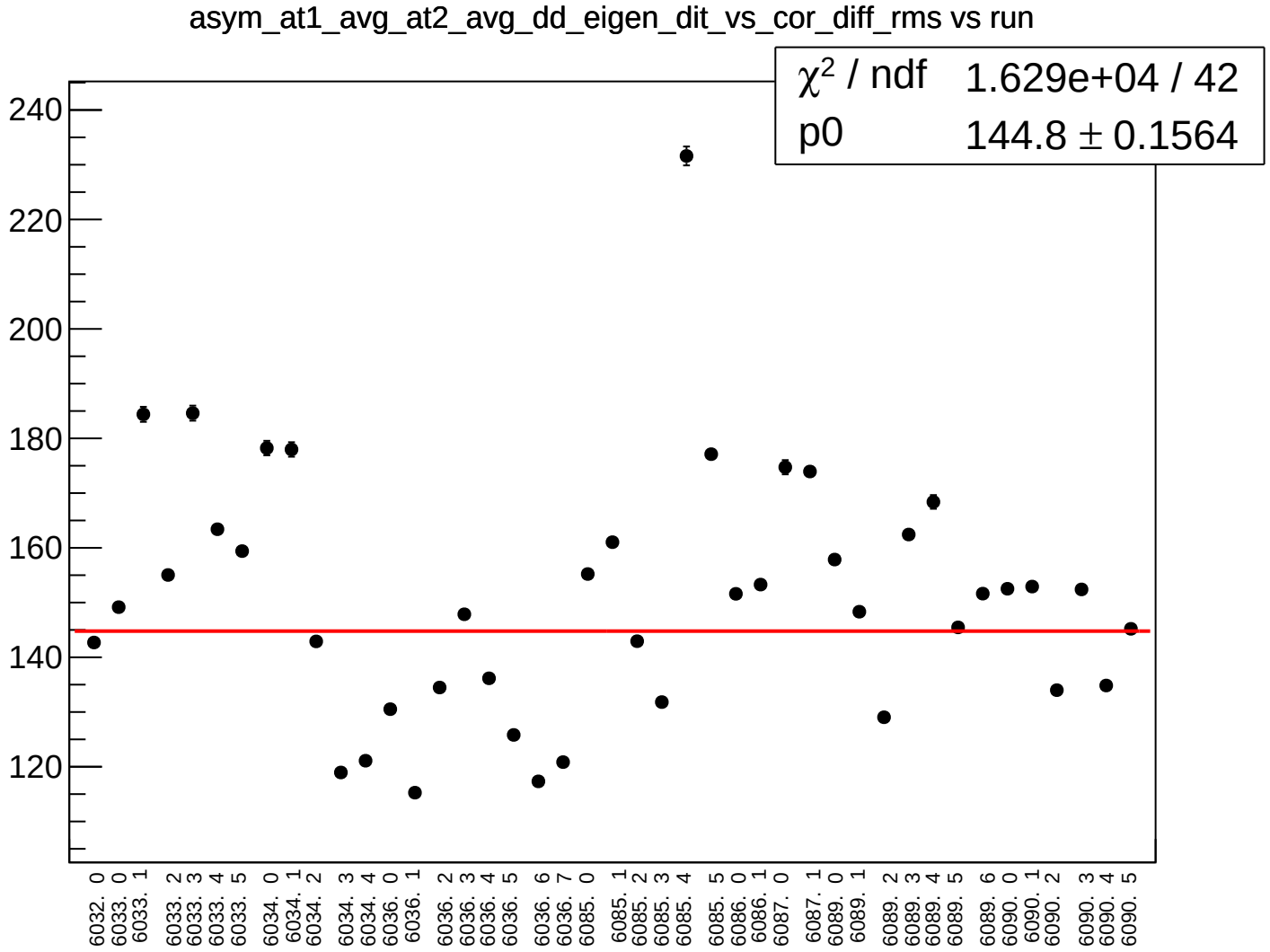

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

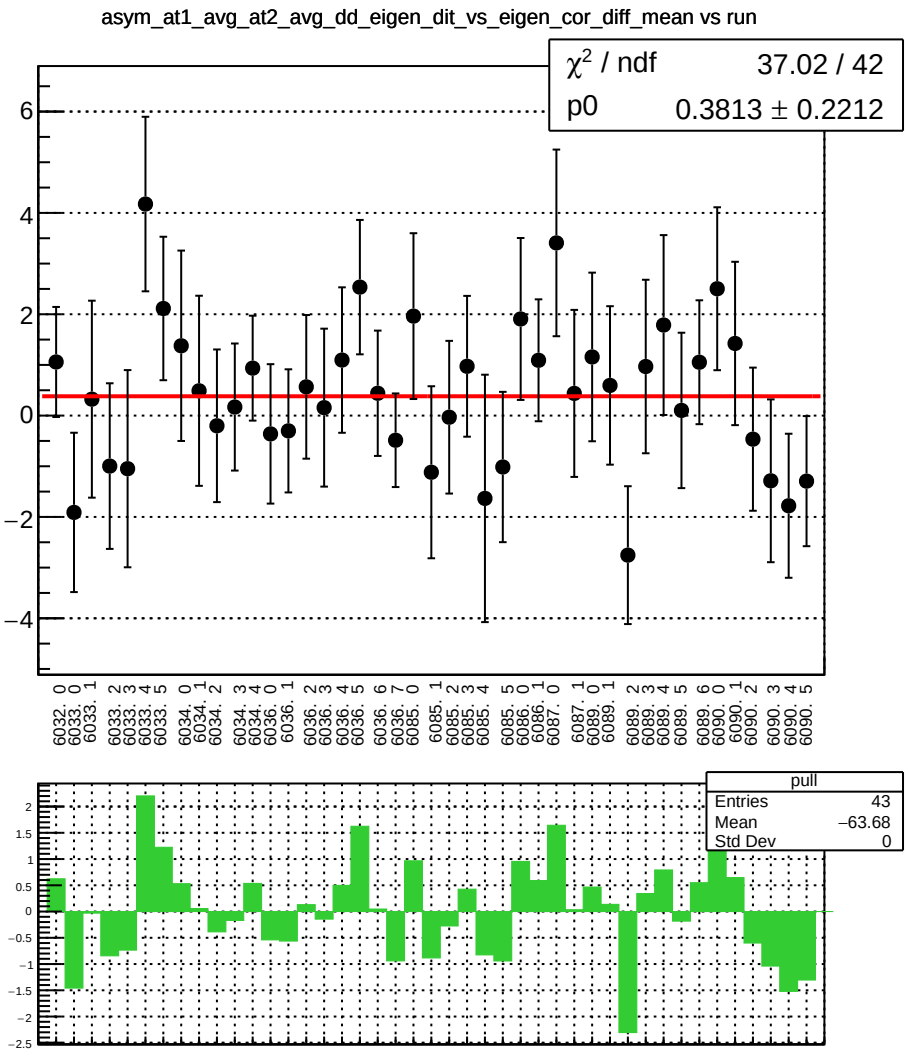

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.98 / 42
p0 −3.963e−06 ± 1.189e−05
pull
Entries 43
Mean 33.86
Std Dev 0

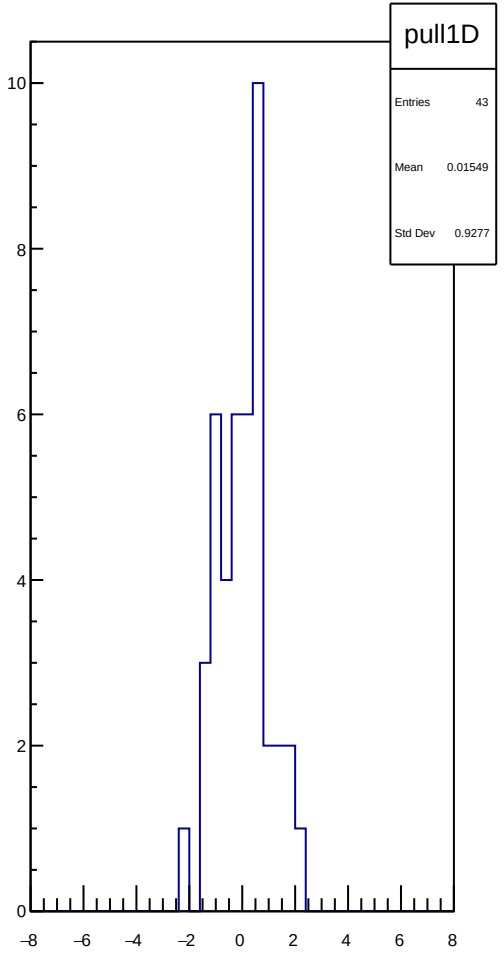

pull1D
Entries 43
Mean 0.07565
Std Dev 0.9733

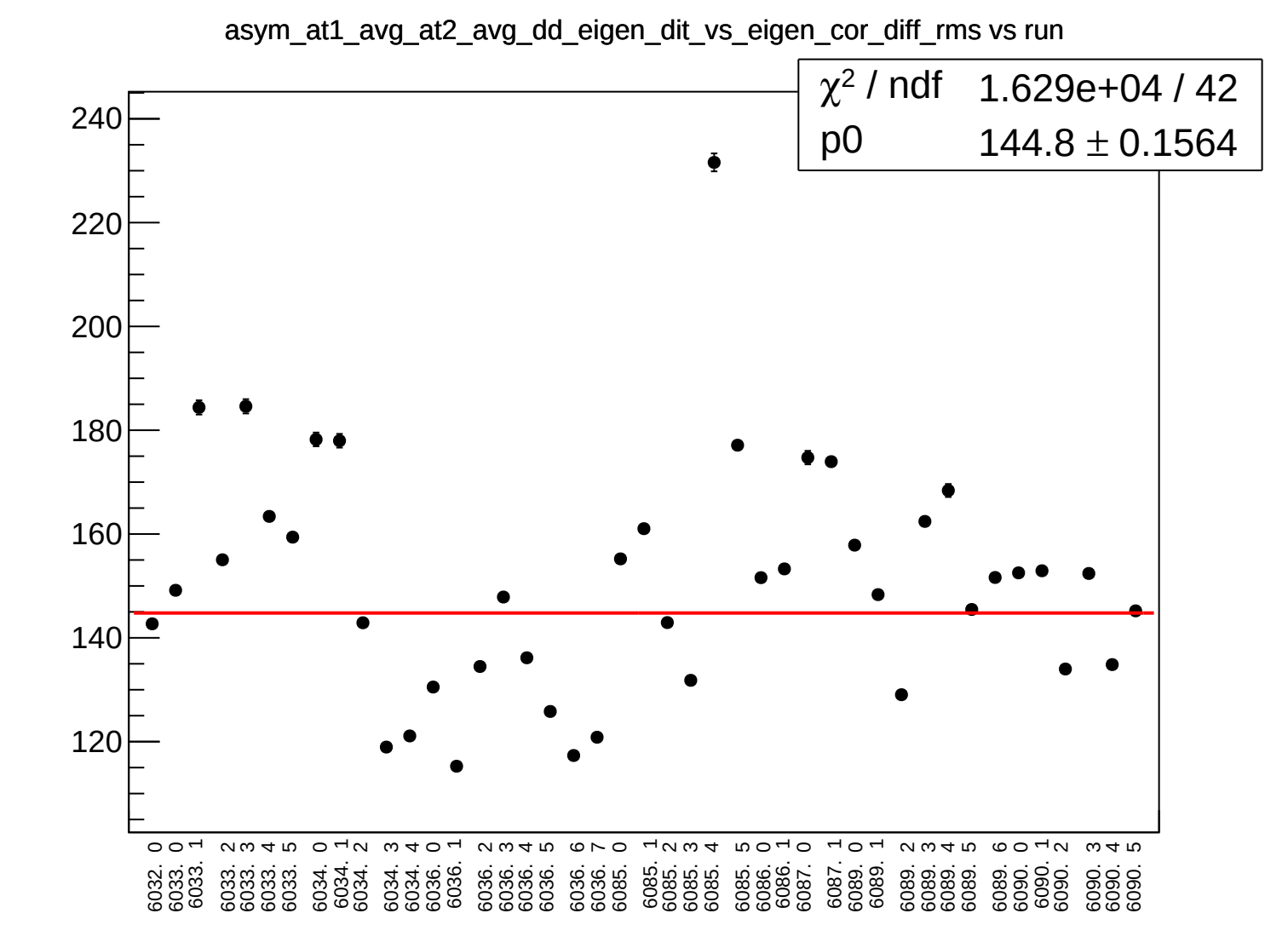

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.263e+05 / 42
p0 0.007263 ± 8.405e−06
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

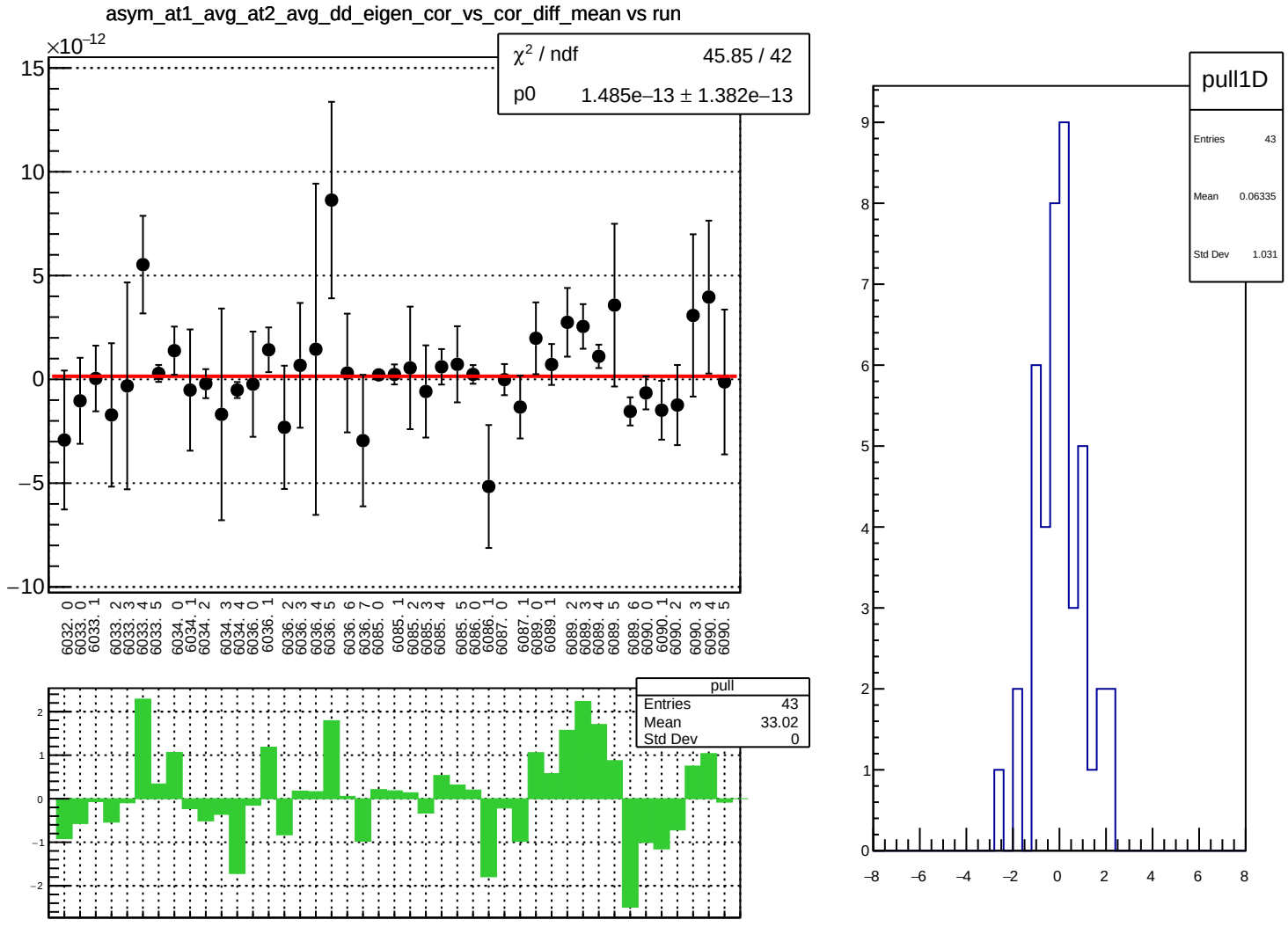

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

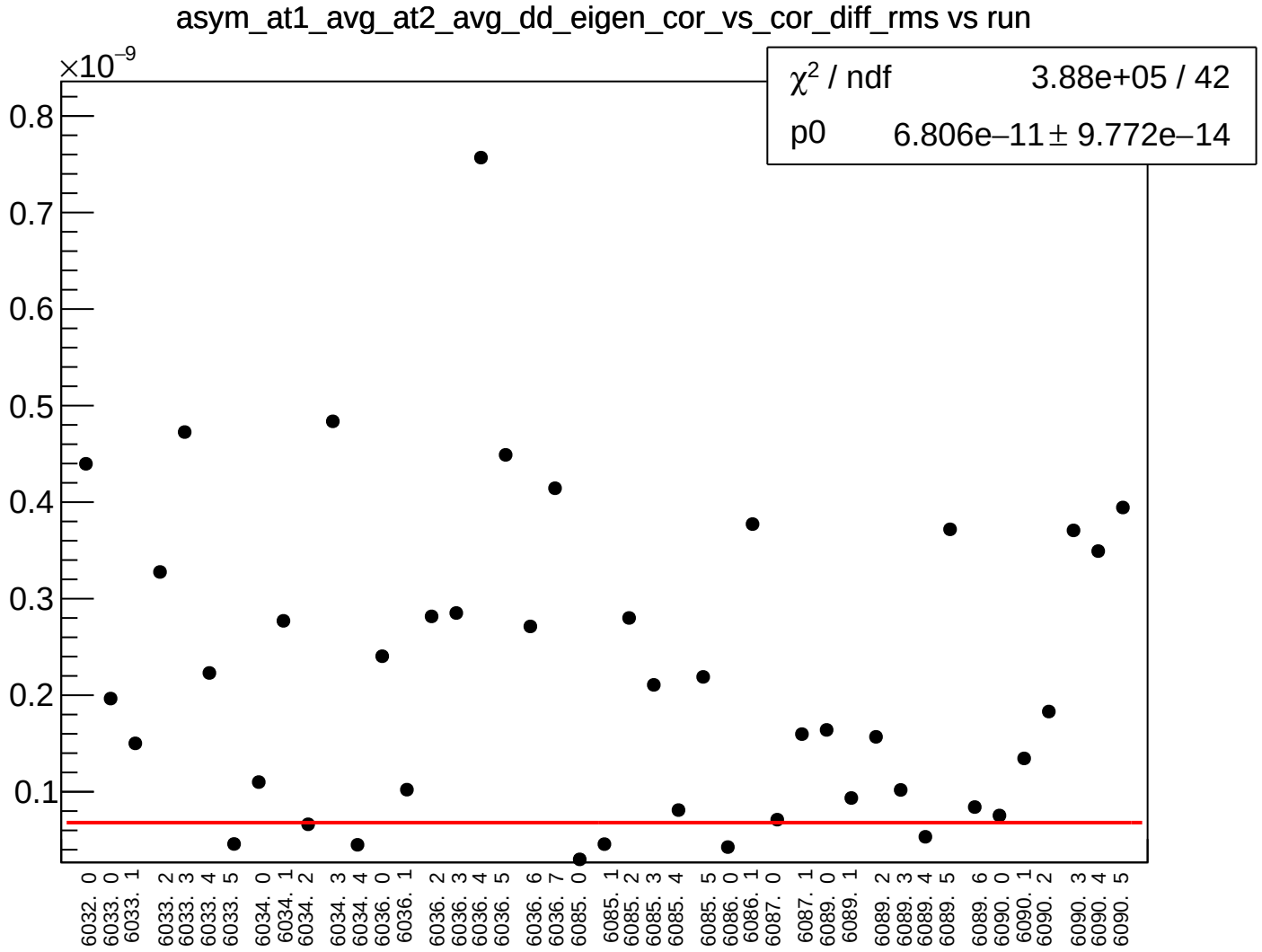

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

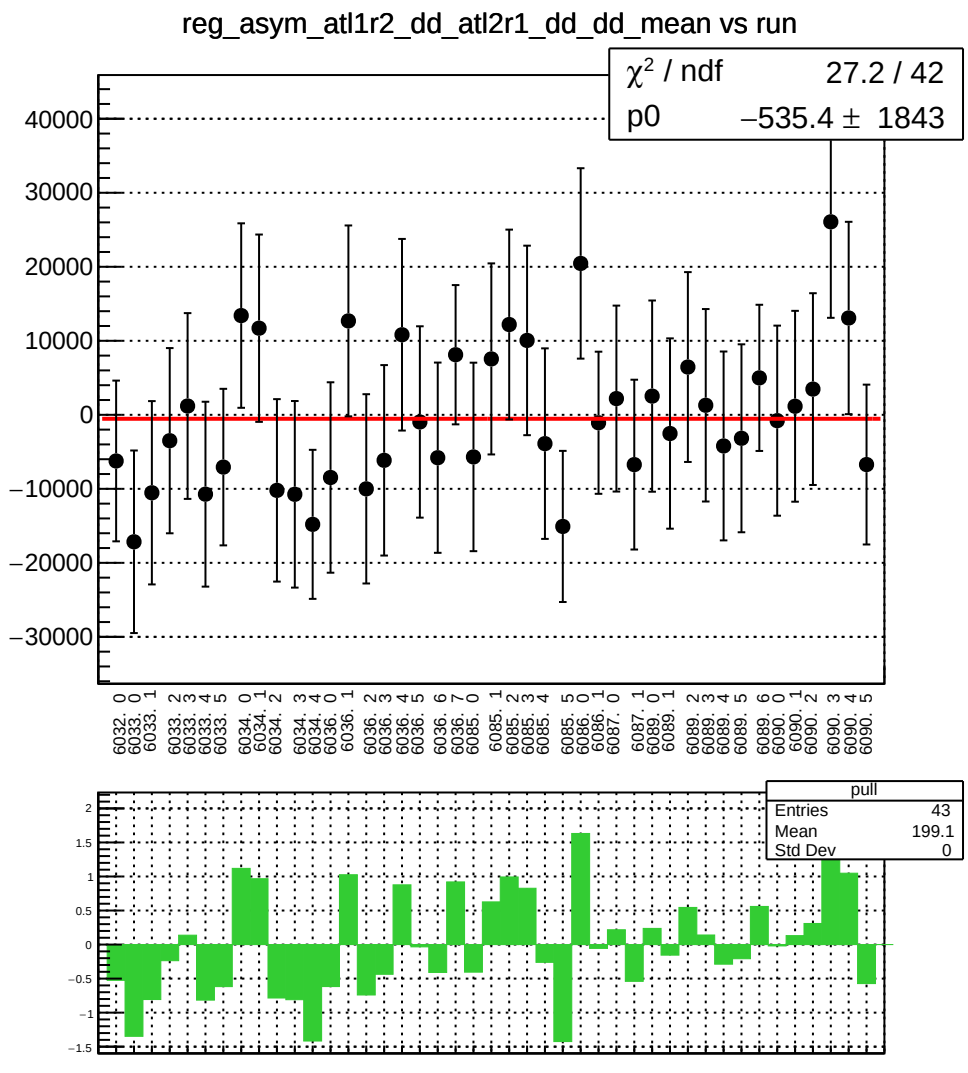

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
pull
Entries 43
Mean −63.68
Std Dev 0

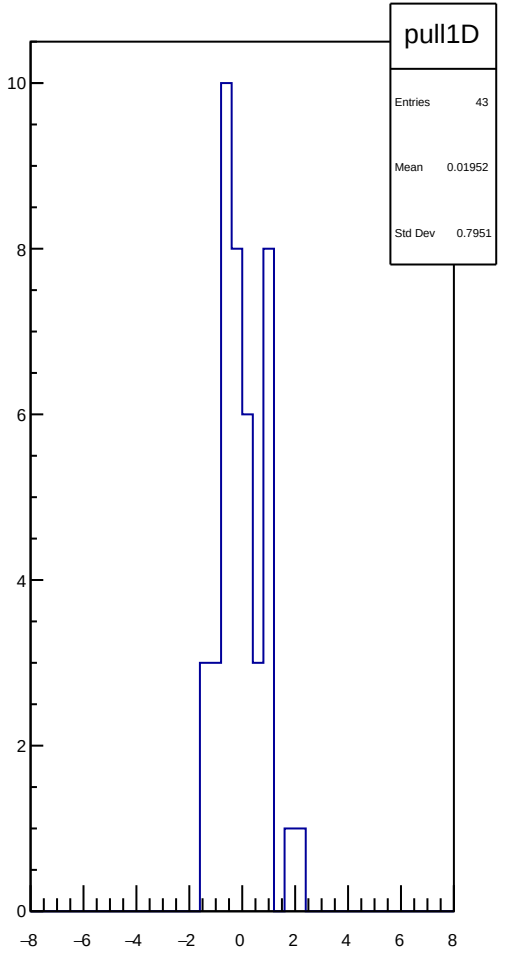

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277

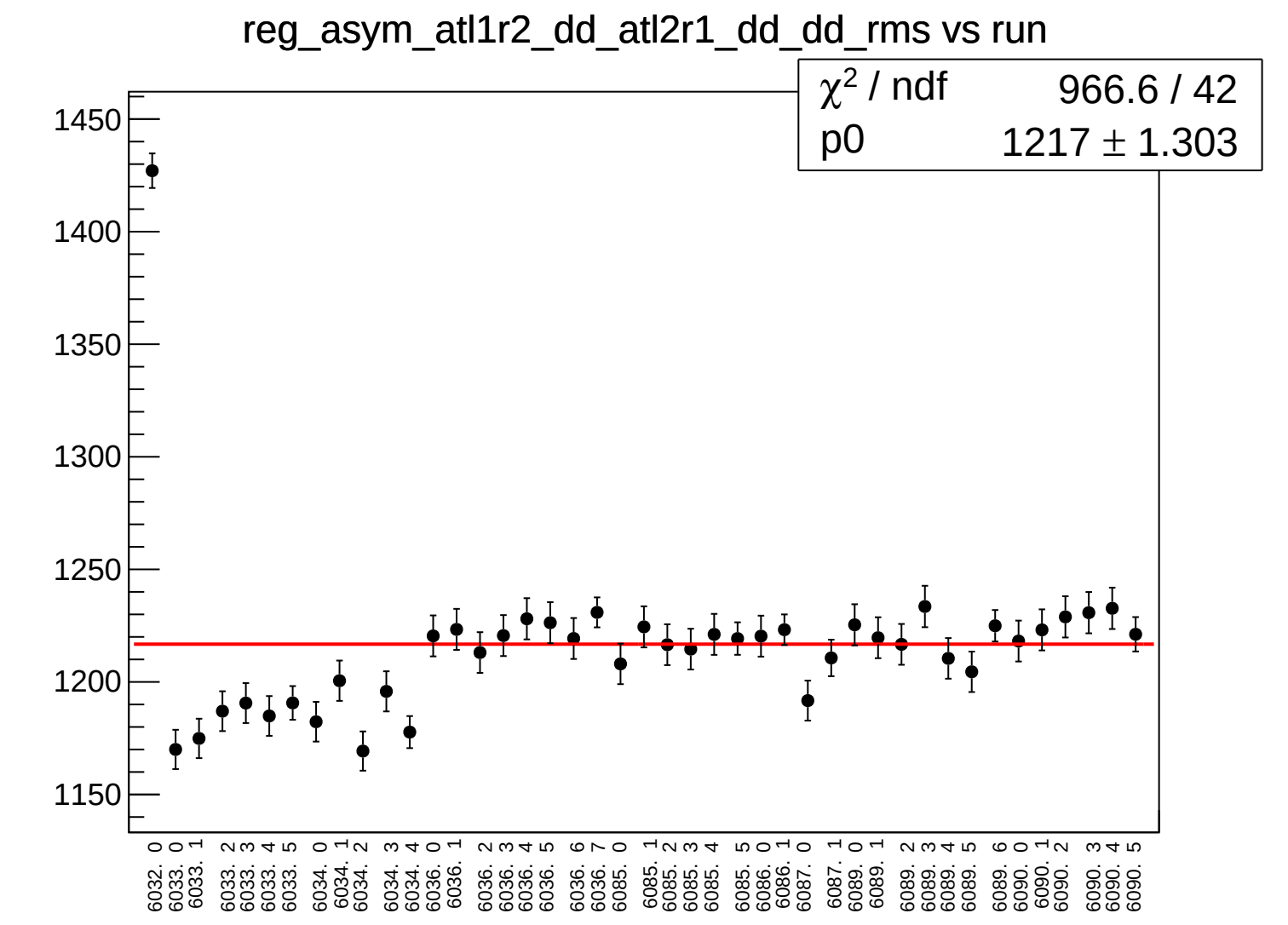

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

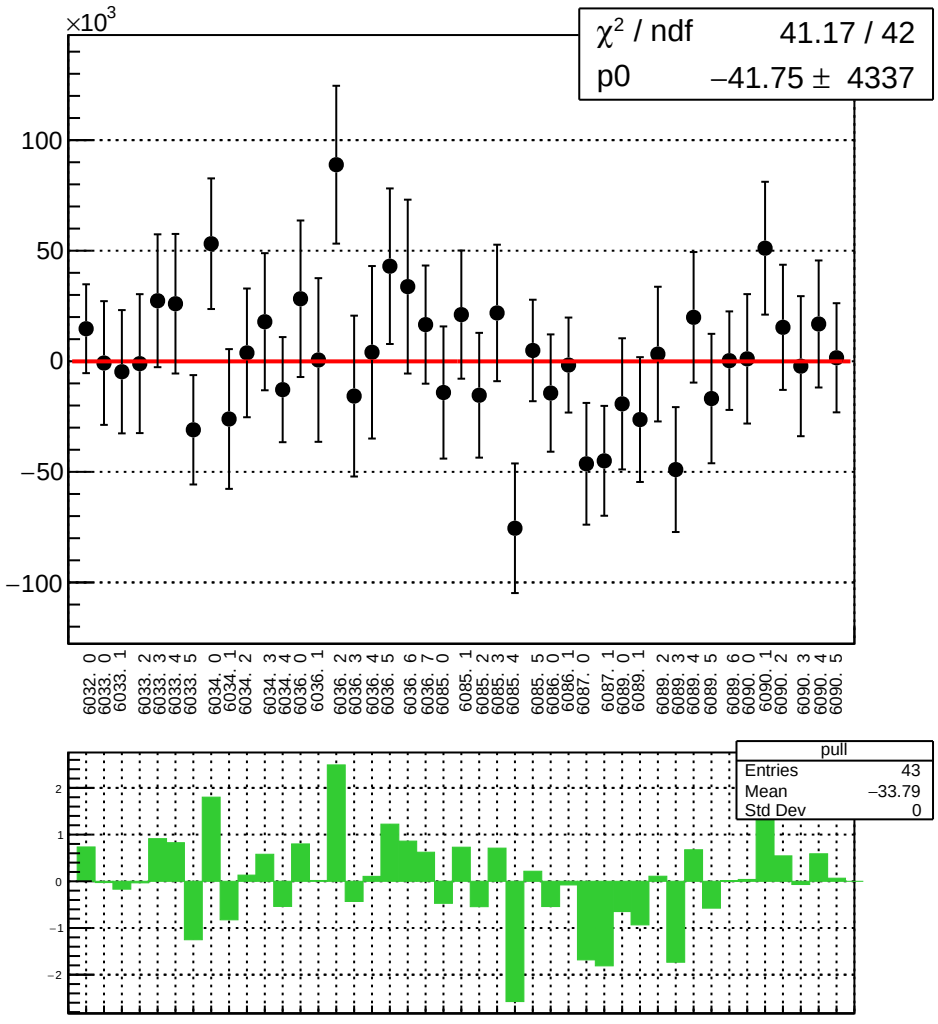

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.85 / 42
p0 1.485e−13 ± 1.382e−13
pull
Entries 43
Mean 33.02
Std Dev 0
pull1D
Entries 43
Mean 0.06335
Std Dev 1.031

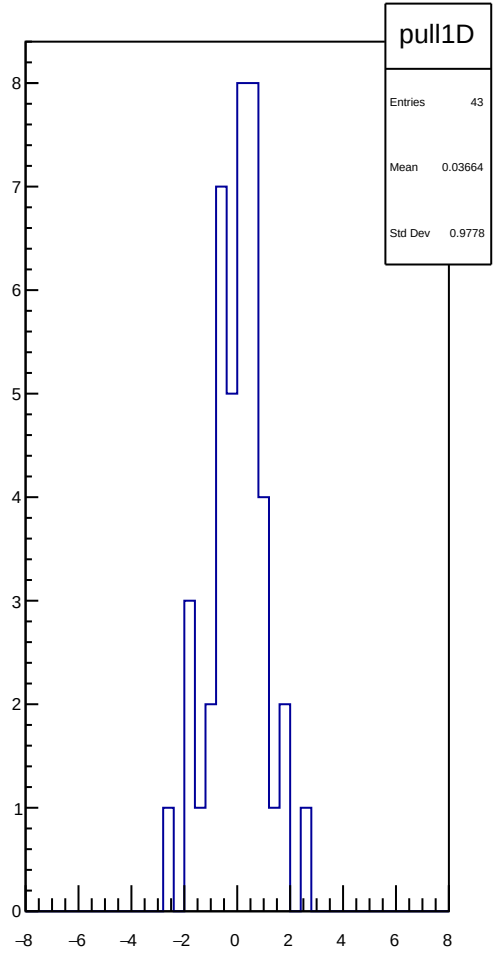

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.88e+05 / 42
p0 6.806e−11 ± 9.772e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

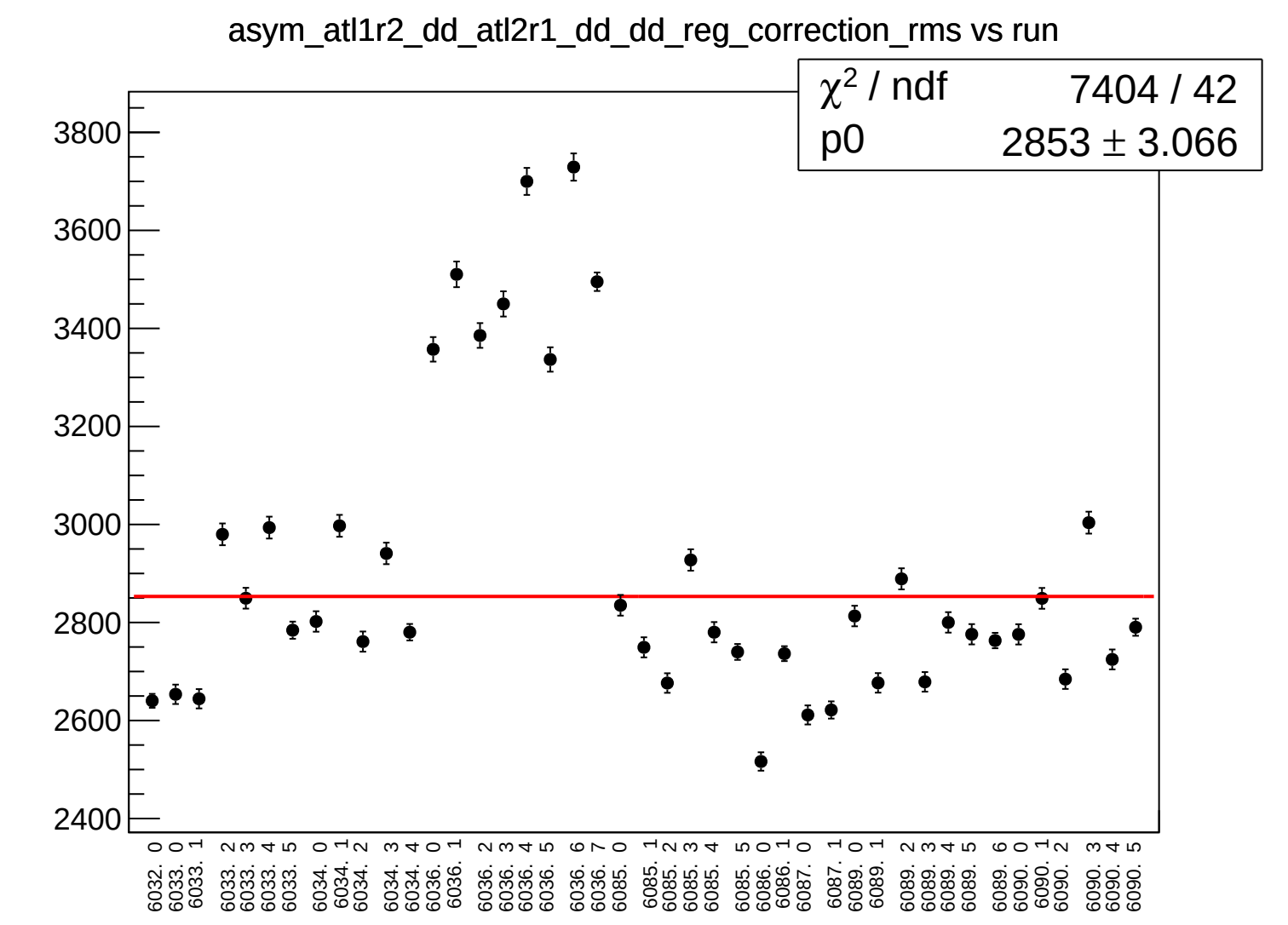

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 27.2 / 42
p0 −535.4 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

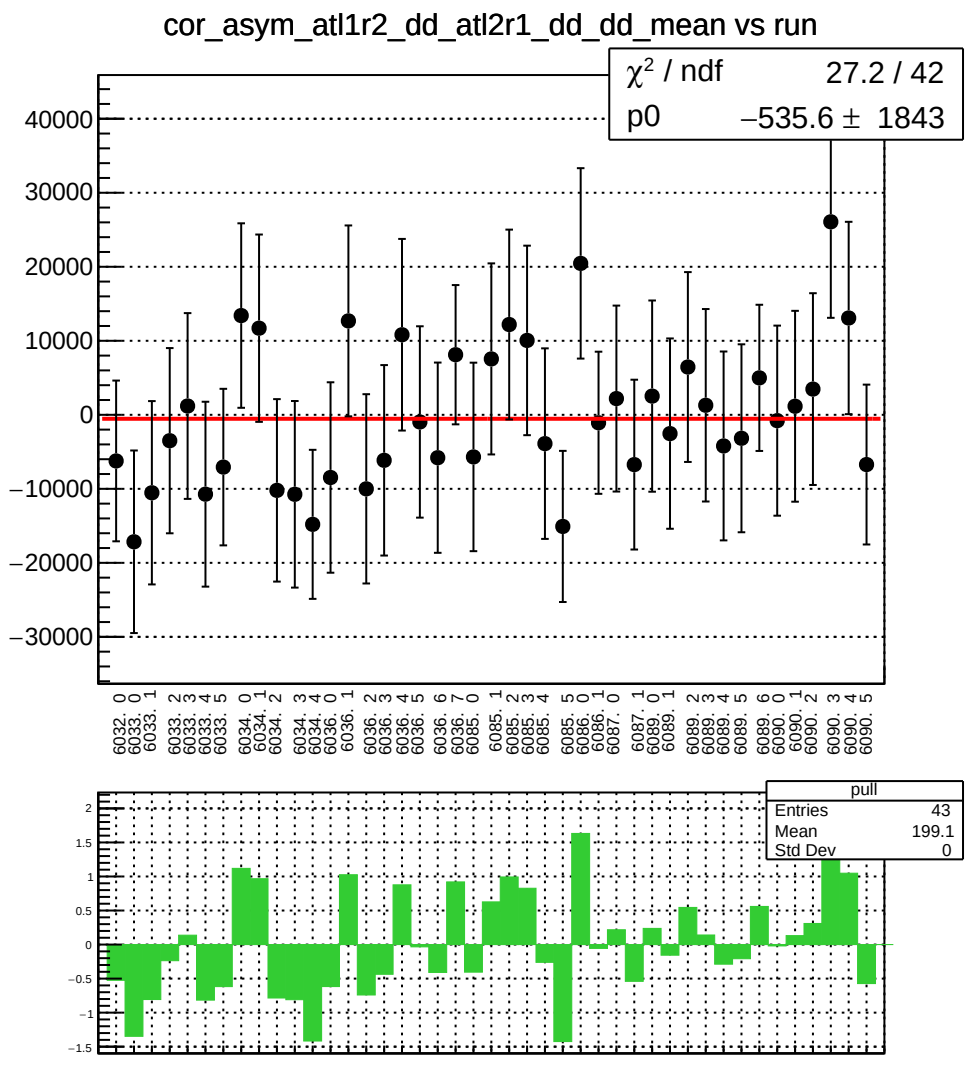

pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

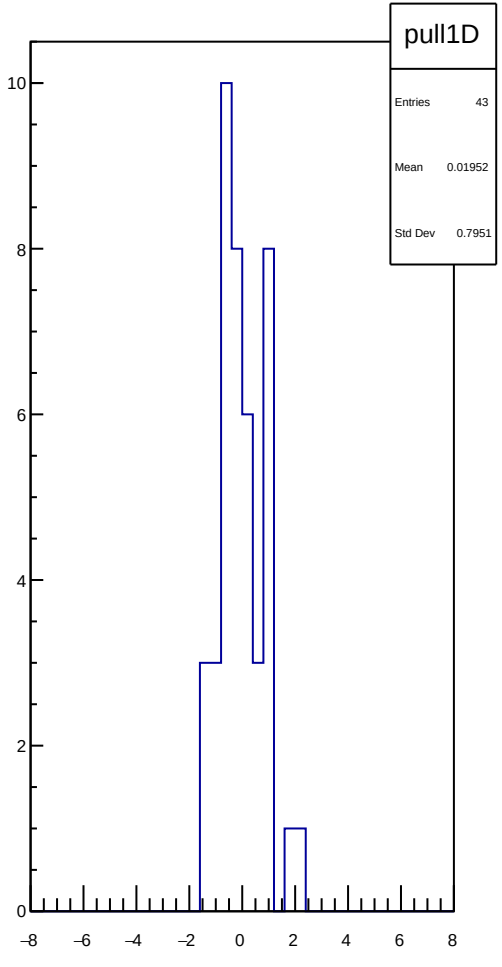

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

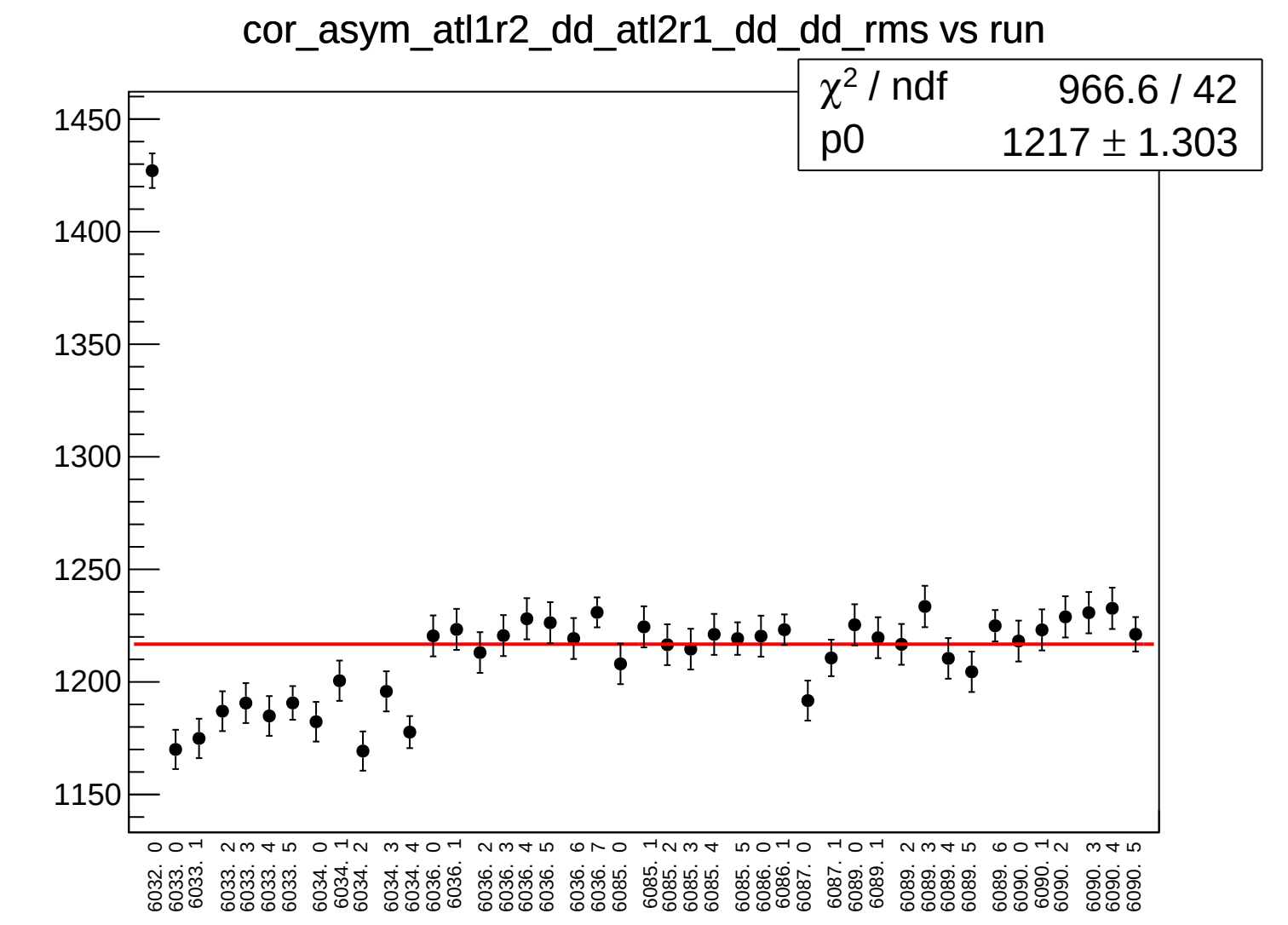

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −41.75 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2

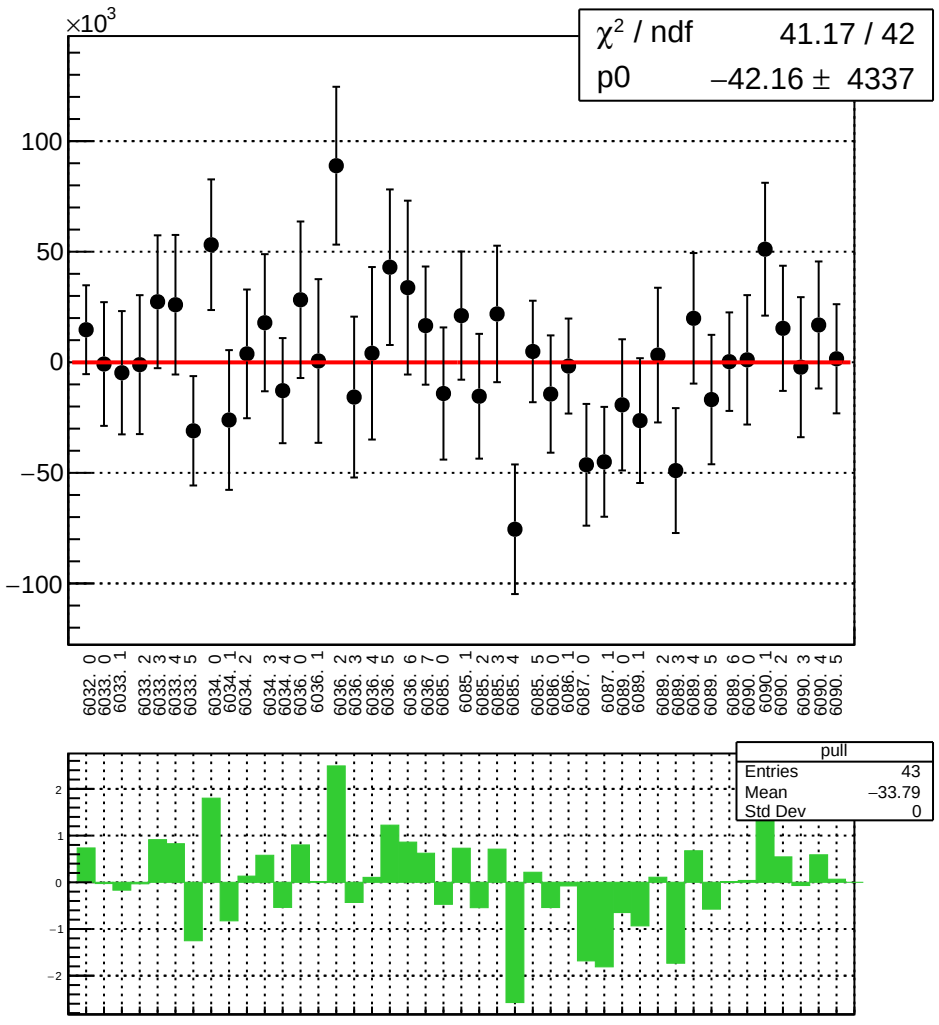

pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

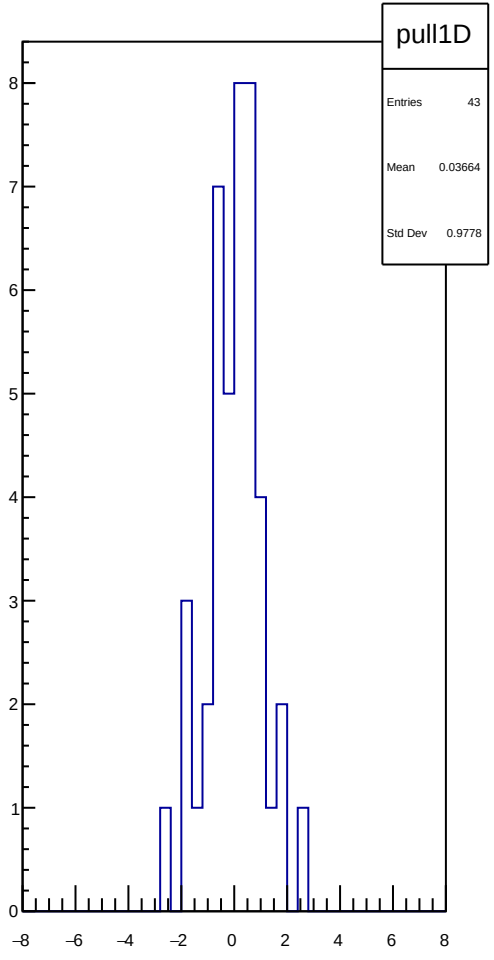

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 7404 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

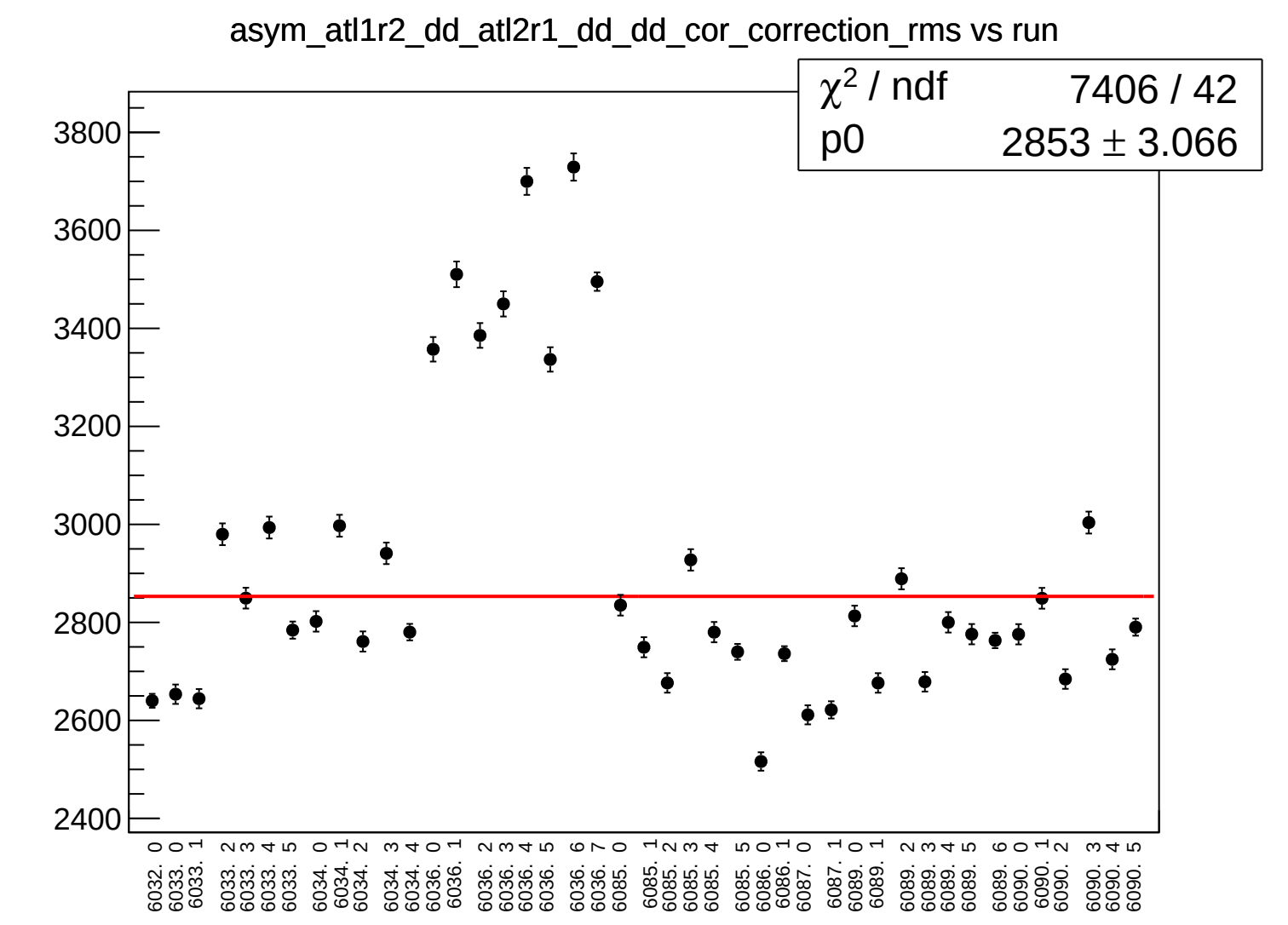

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 27.2 / 42
p0 −535.6 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

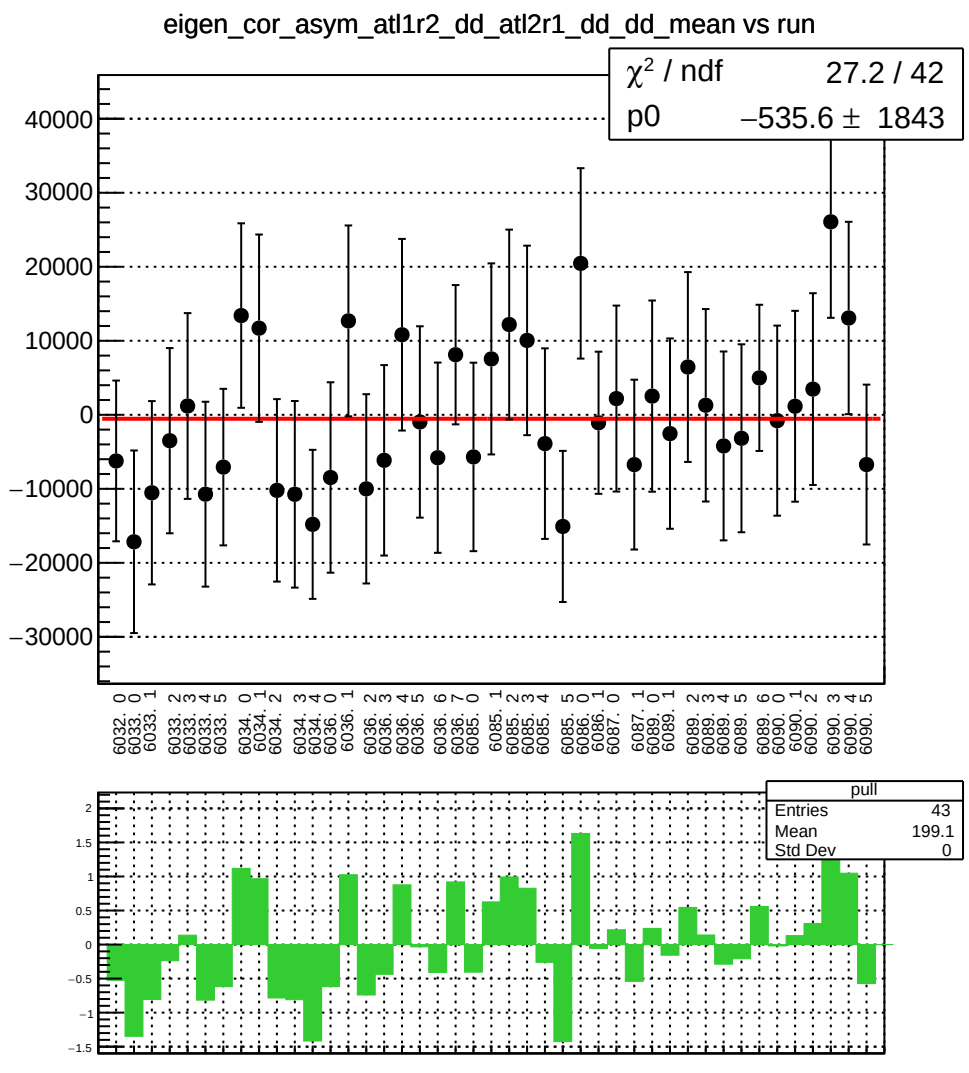

pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

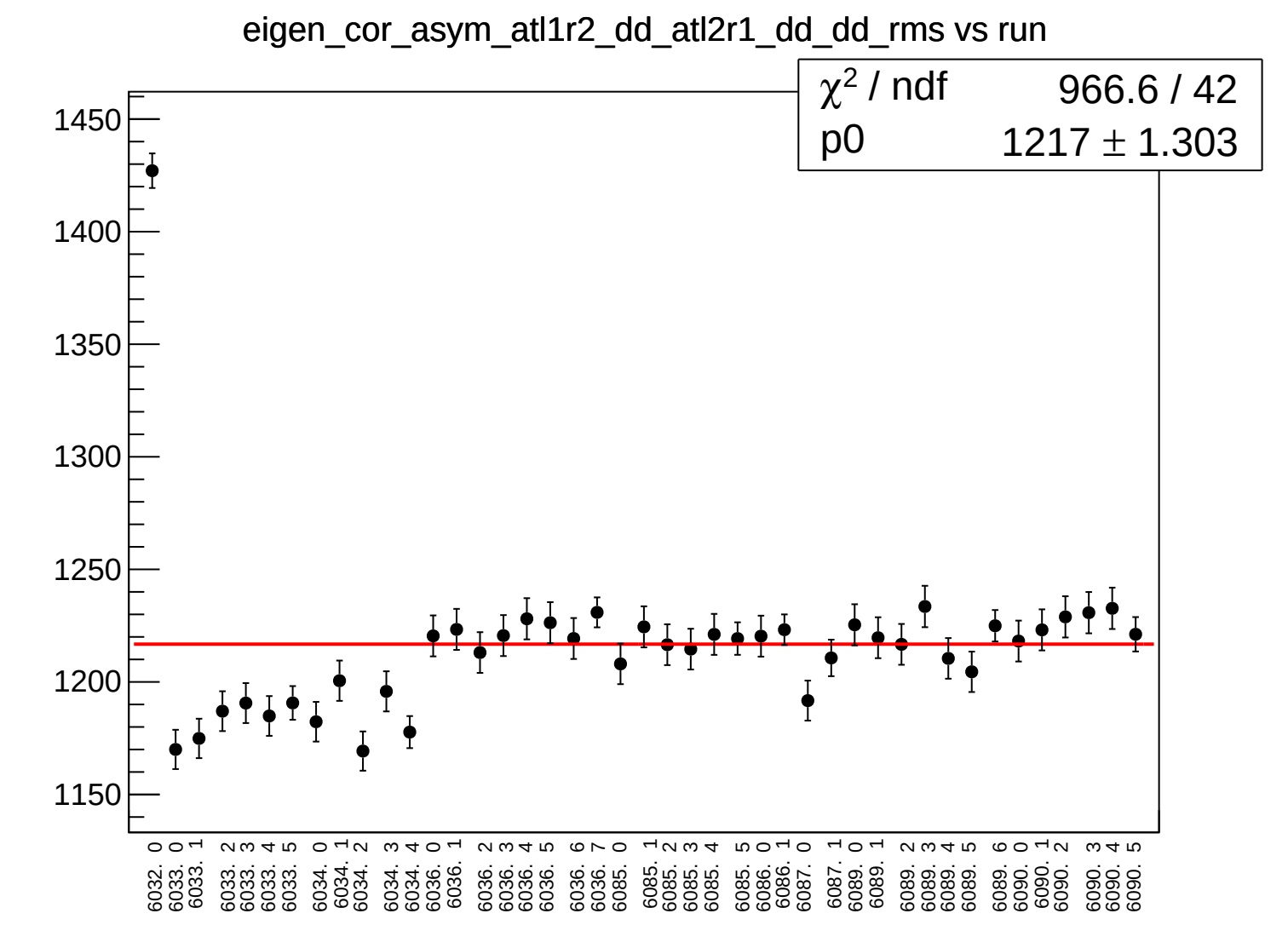

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

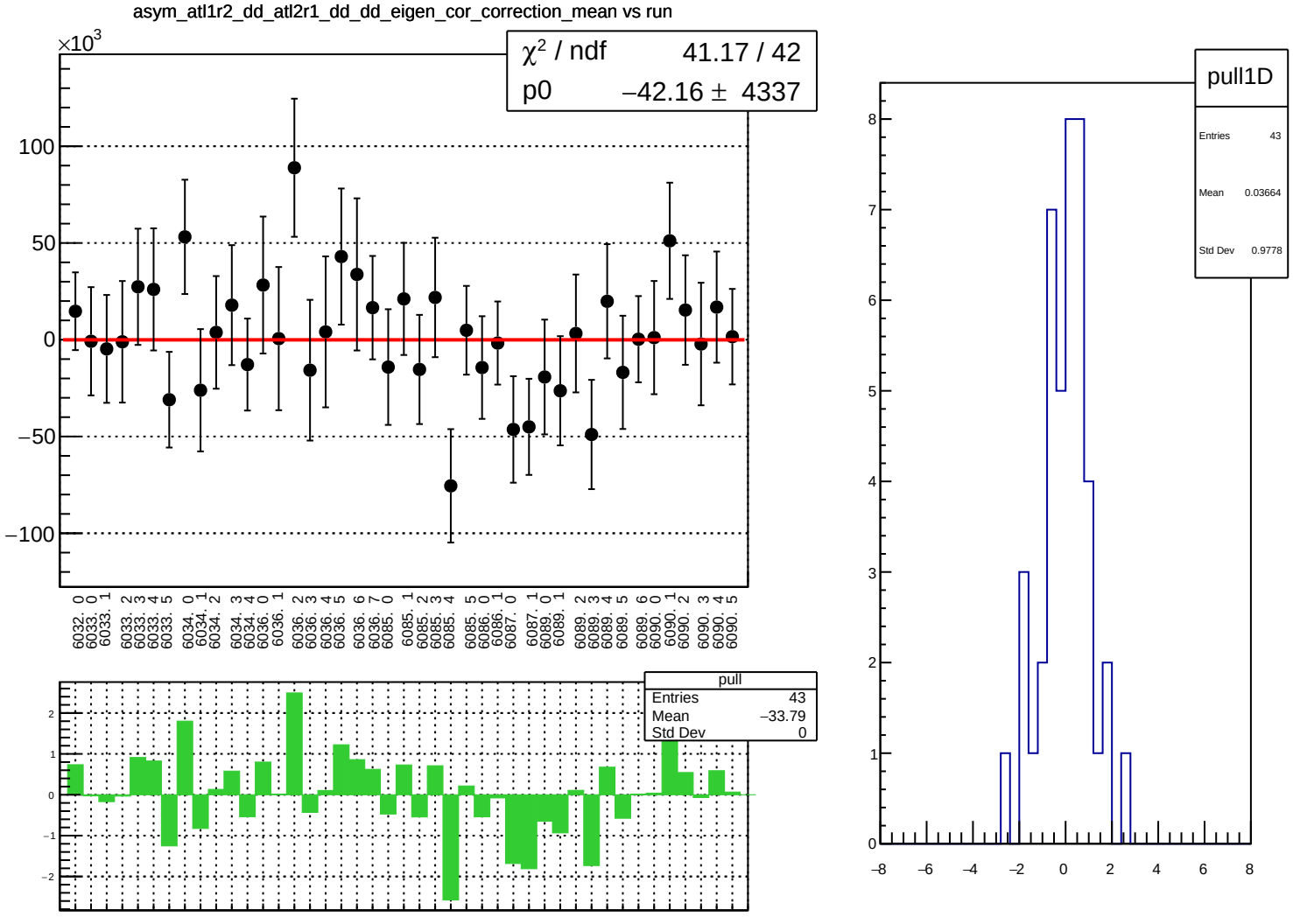

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −42.16 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2

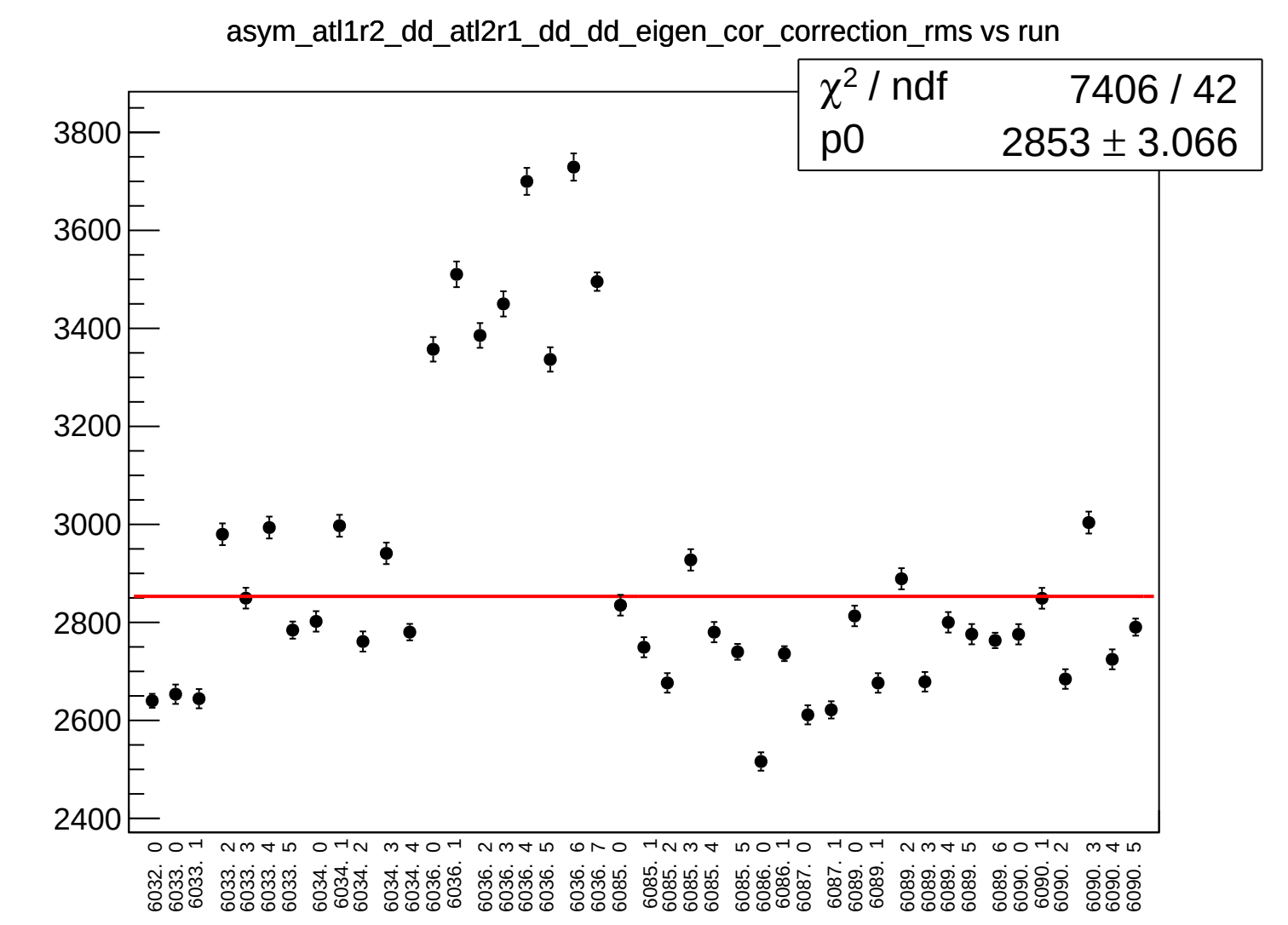

pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

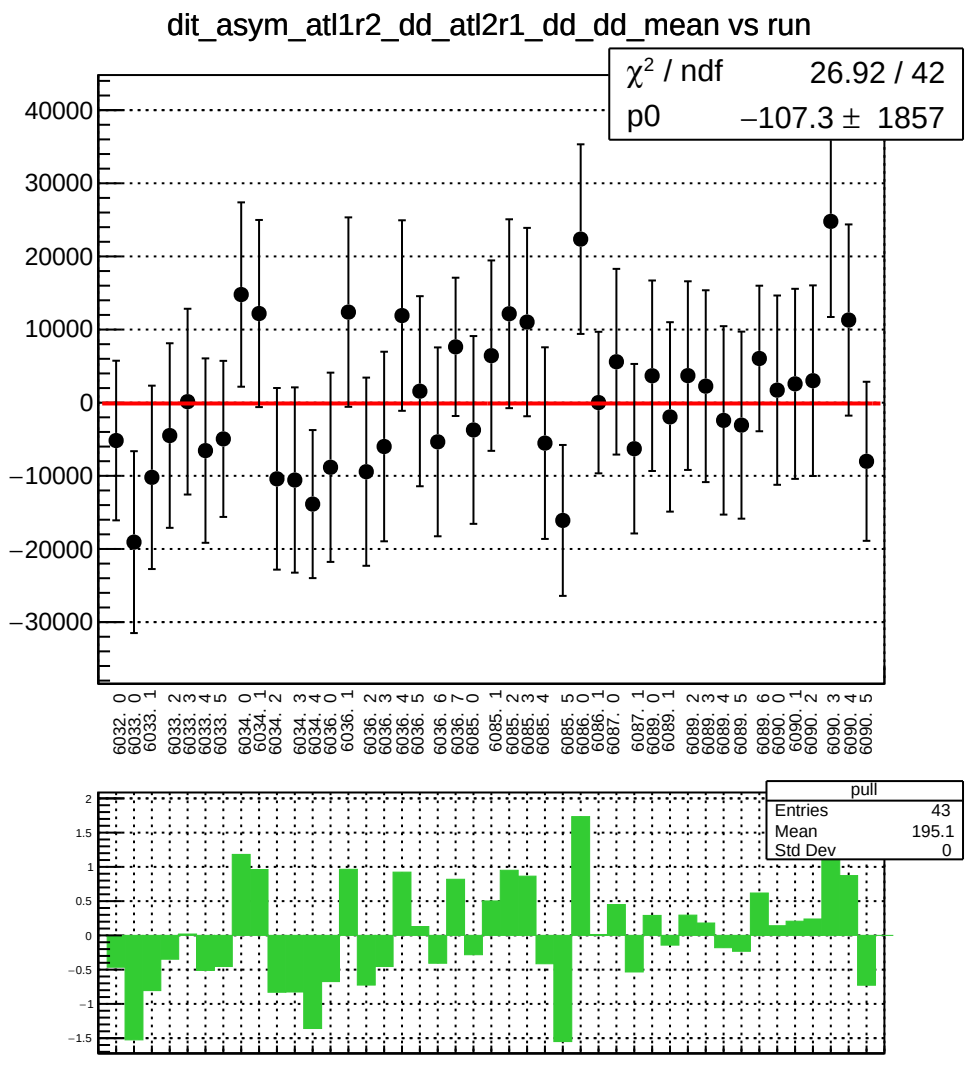

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 7406 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

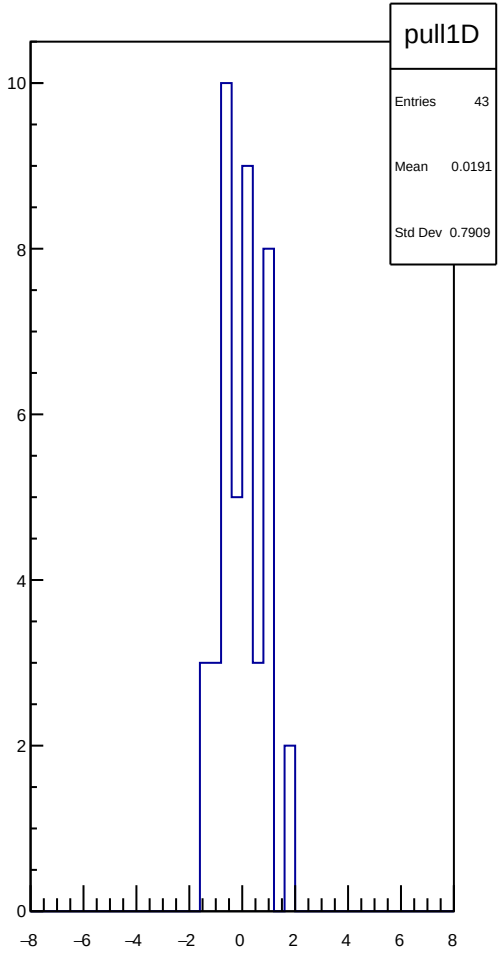

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 27.2 / 42
p0 −535.6 ± 1843
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01952
Std Dev 0.7951
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

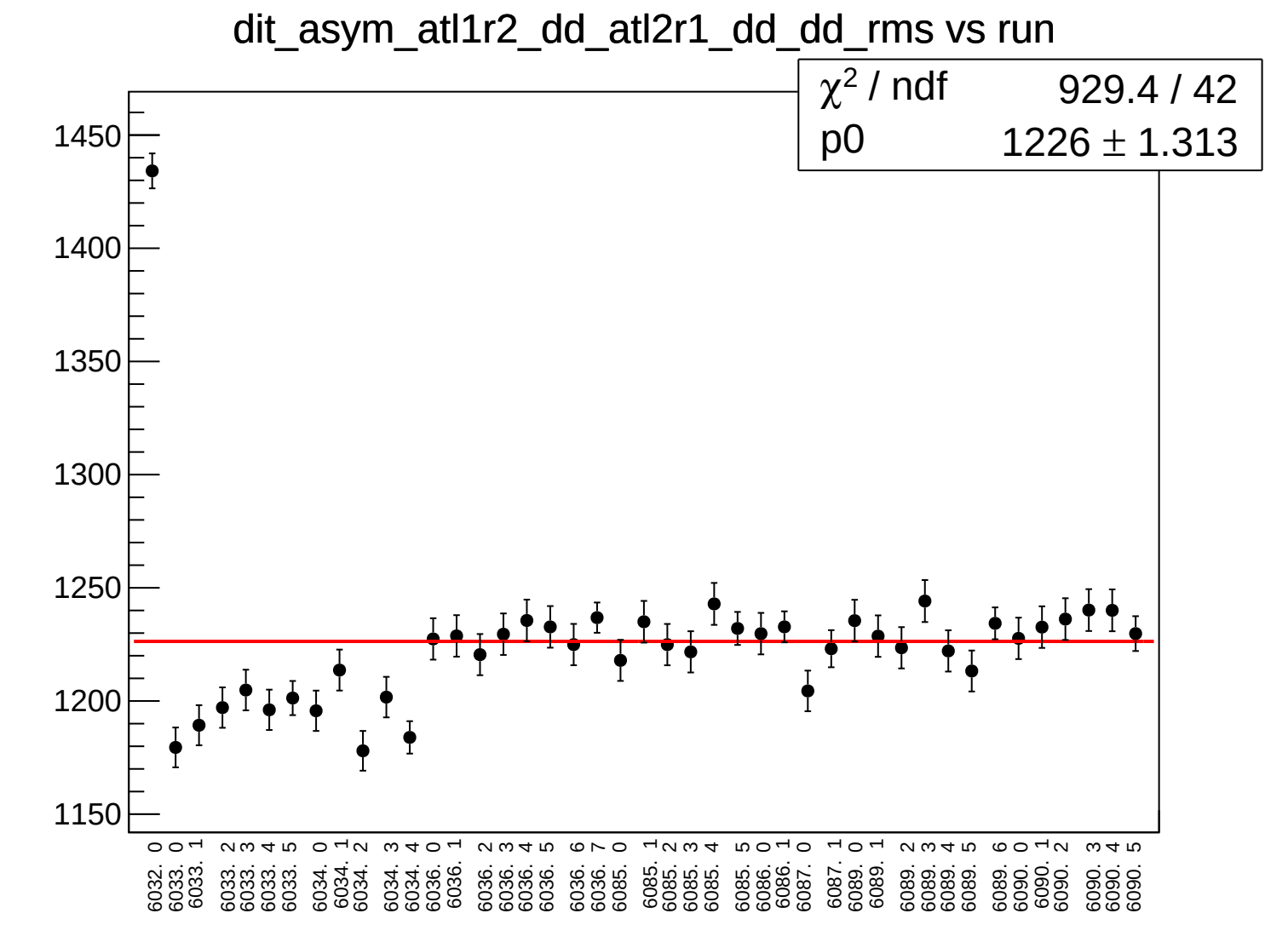

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 966.6 / 42
p0 1217 ± 1.303
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

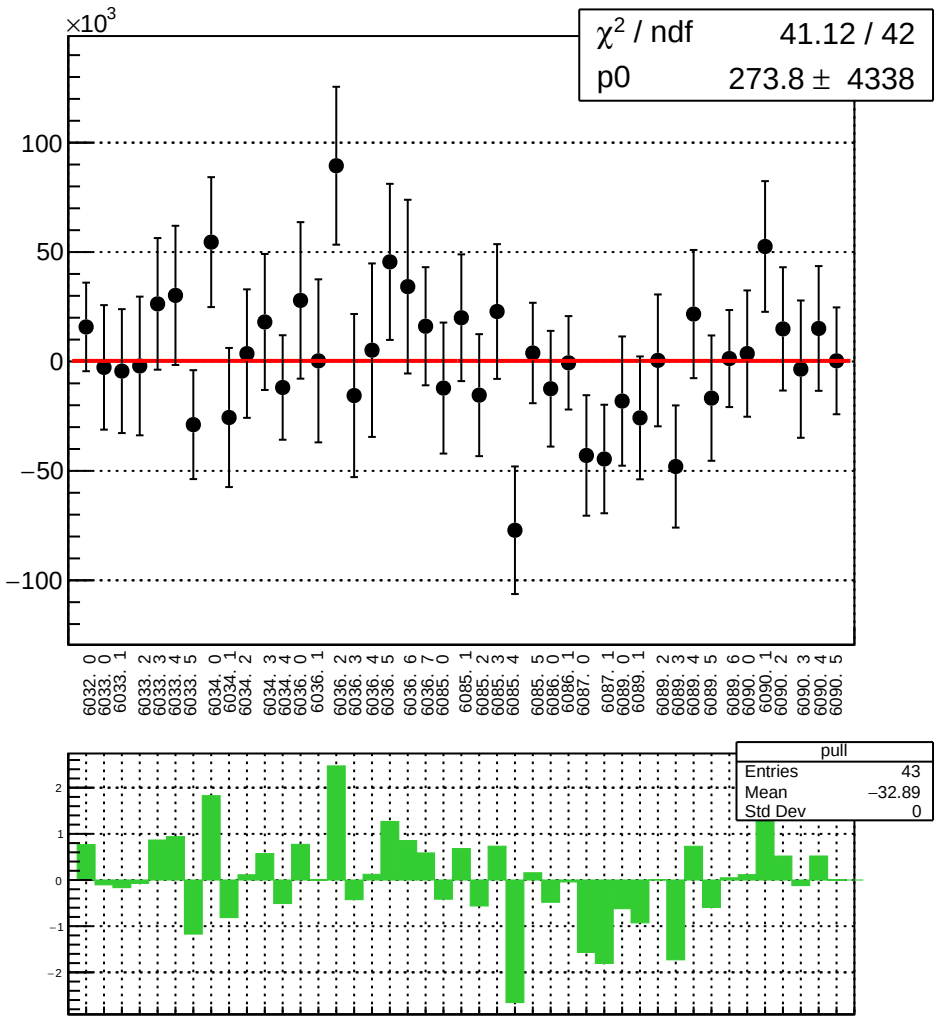

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 −42.16 ± 4337
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.79
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03664
Std Dev 0.9778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

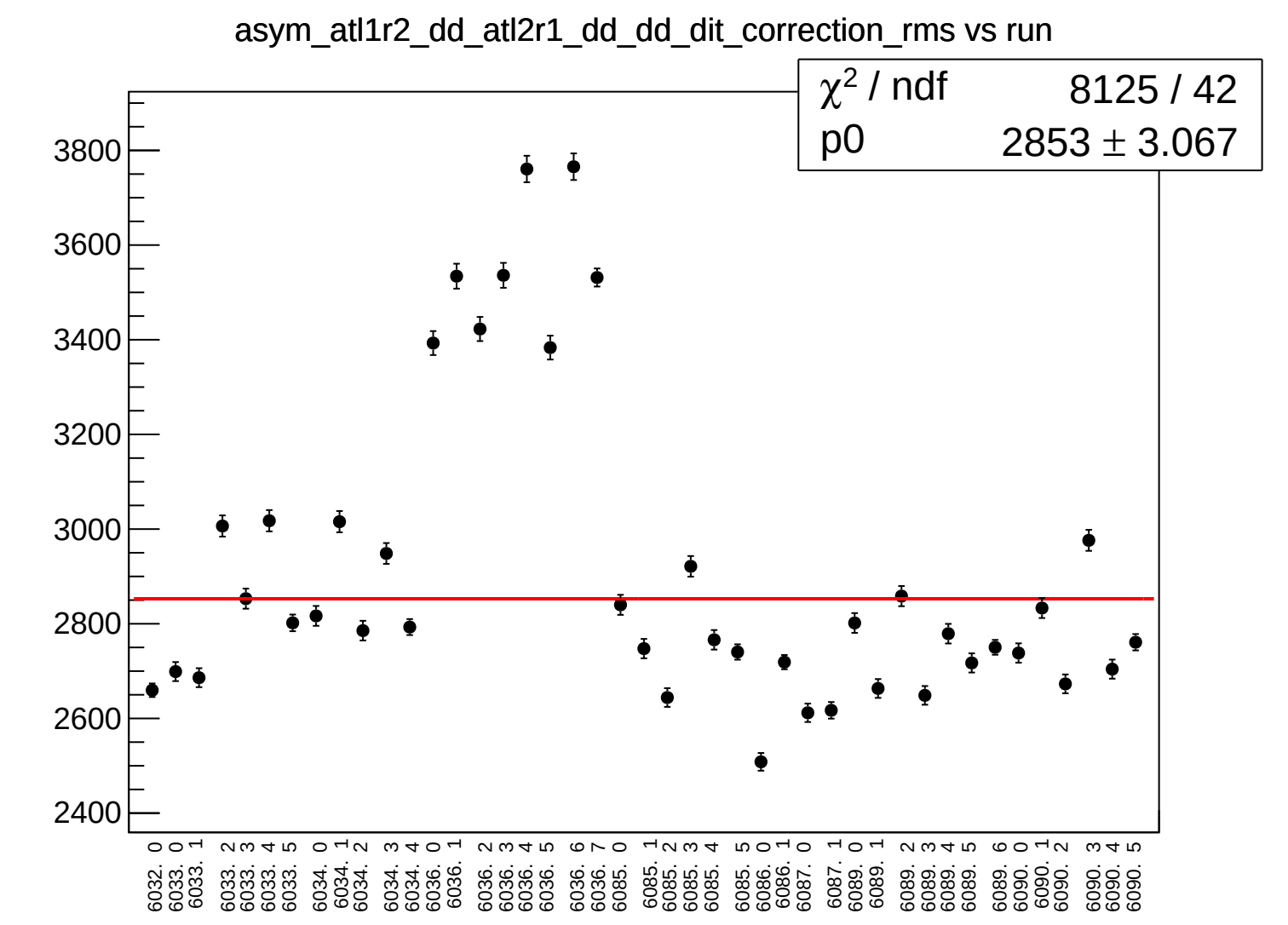

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7406 / 42
p0 2853 ± 3.066
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

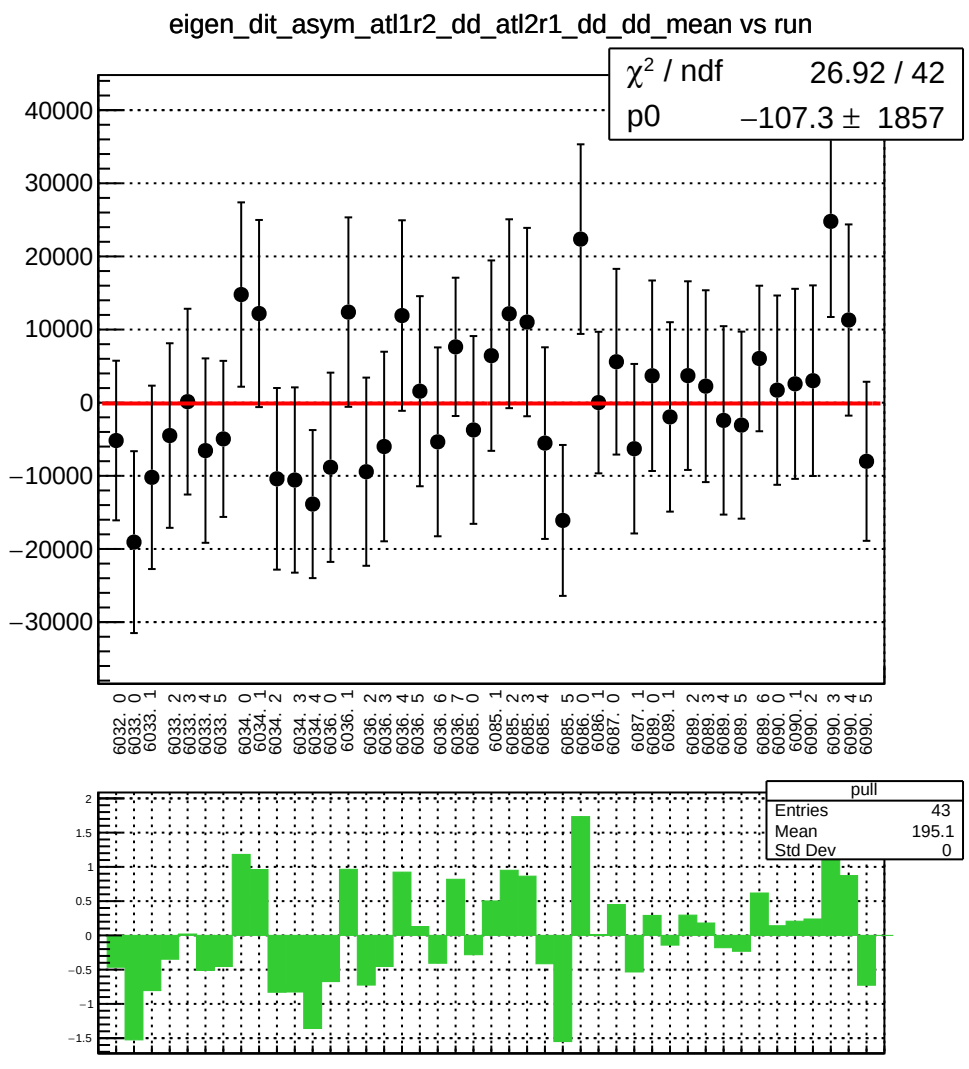

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 26.92 / 42
p0 −107.3 ± 1857
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

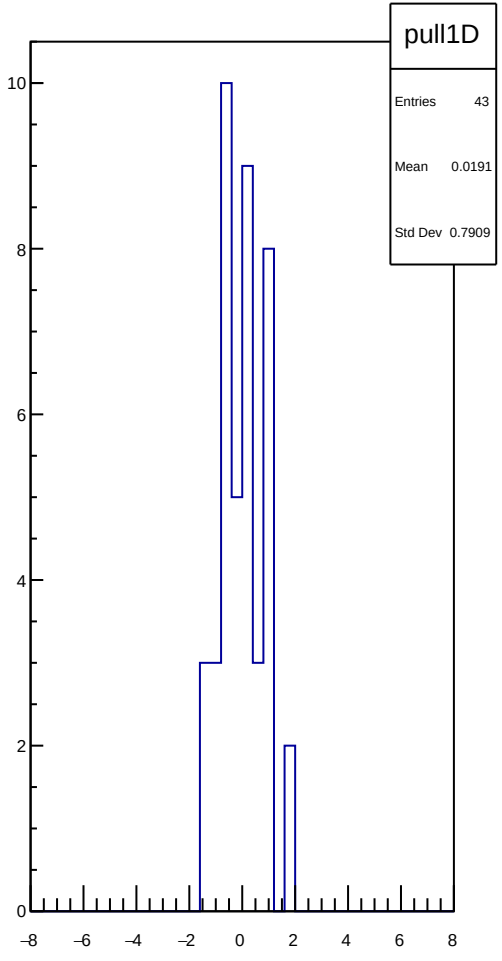

pull1D
Entries 43
Mean 0.0191
Std Dev 0.7909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

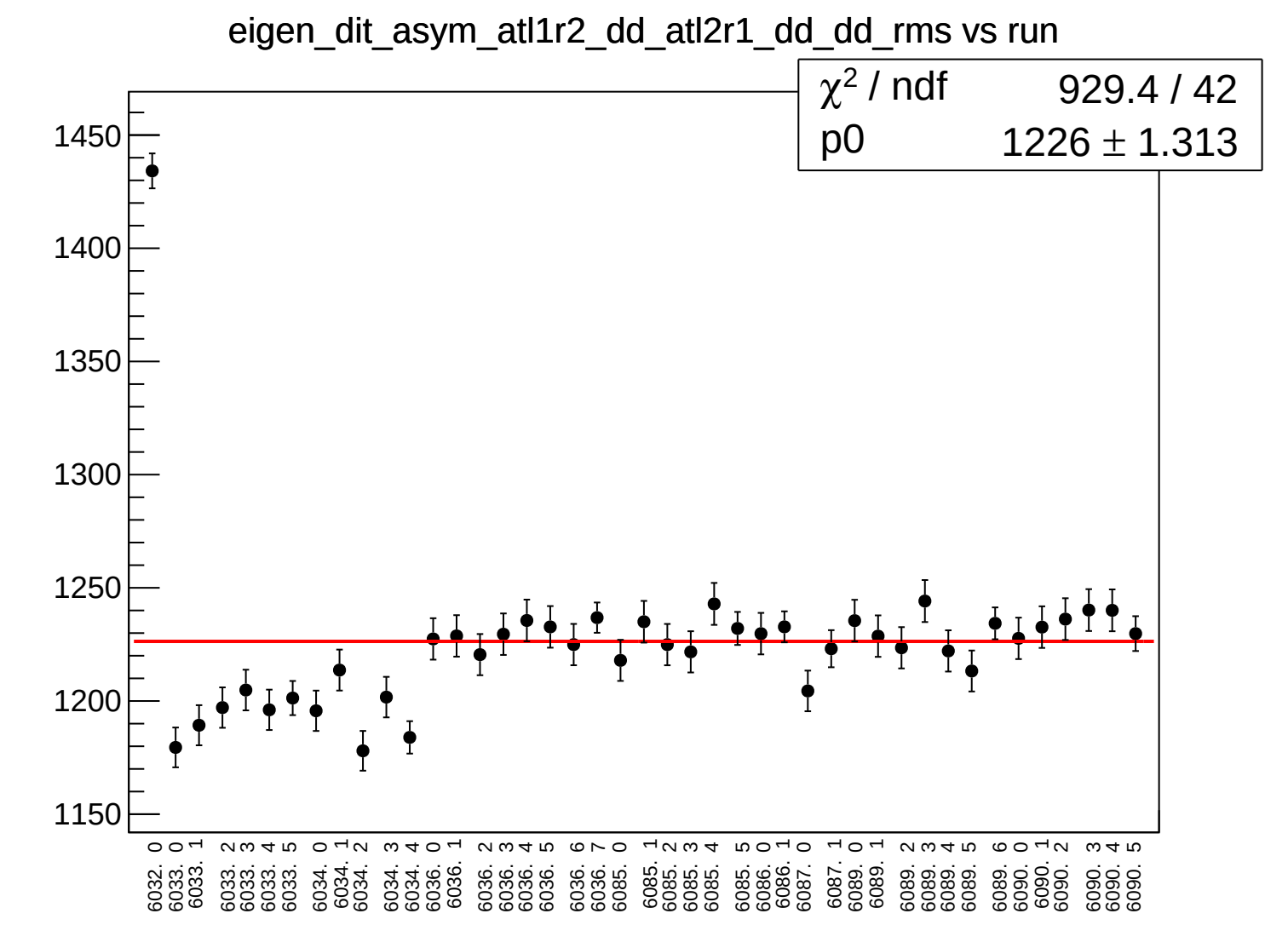

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 929.4 / 42
p0 1226 ± 1.313
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

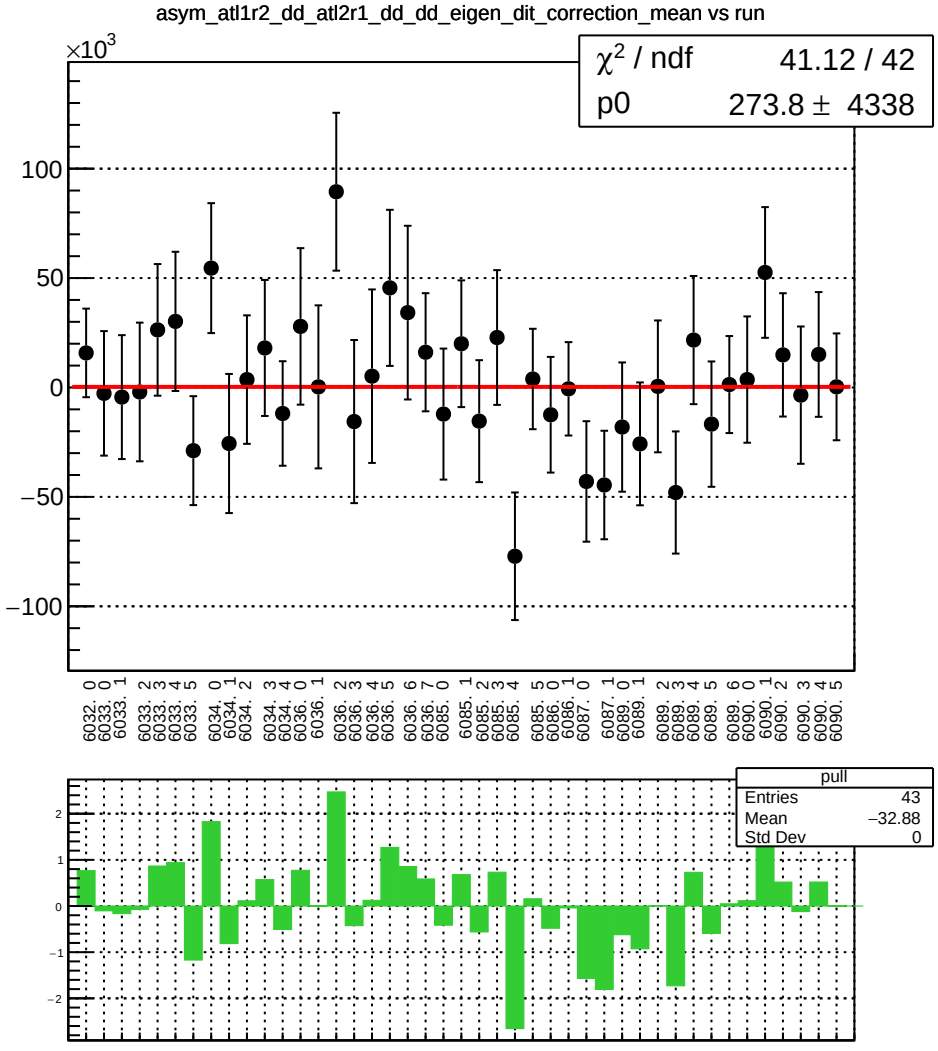

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.12 / 42
p0 273.8 ± 4338
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03813
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

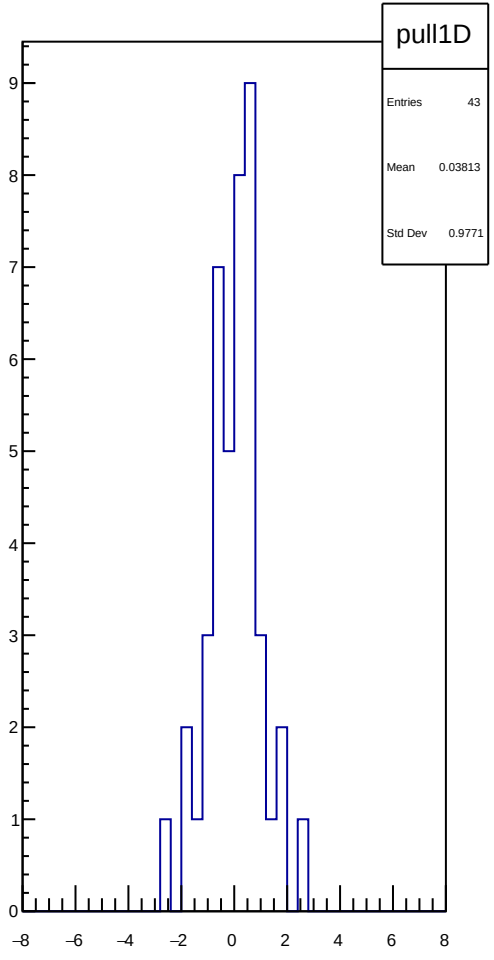

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 8125 / 42
p0 2853 ± 3.067
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

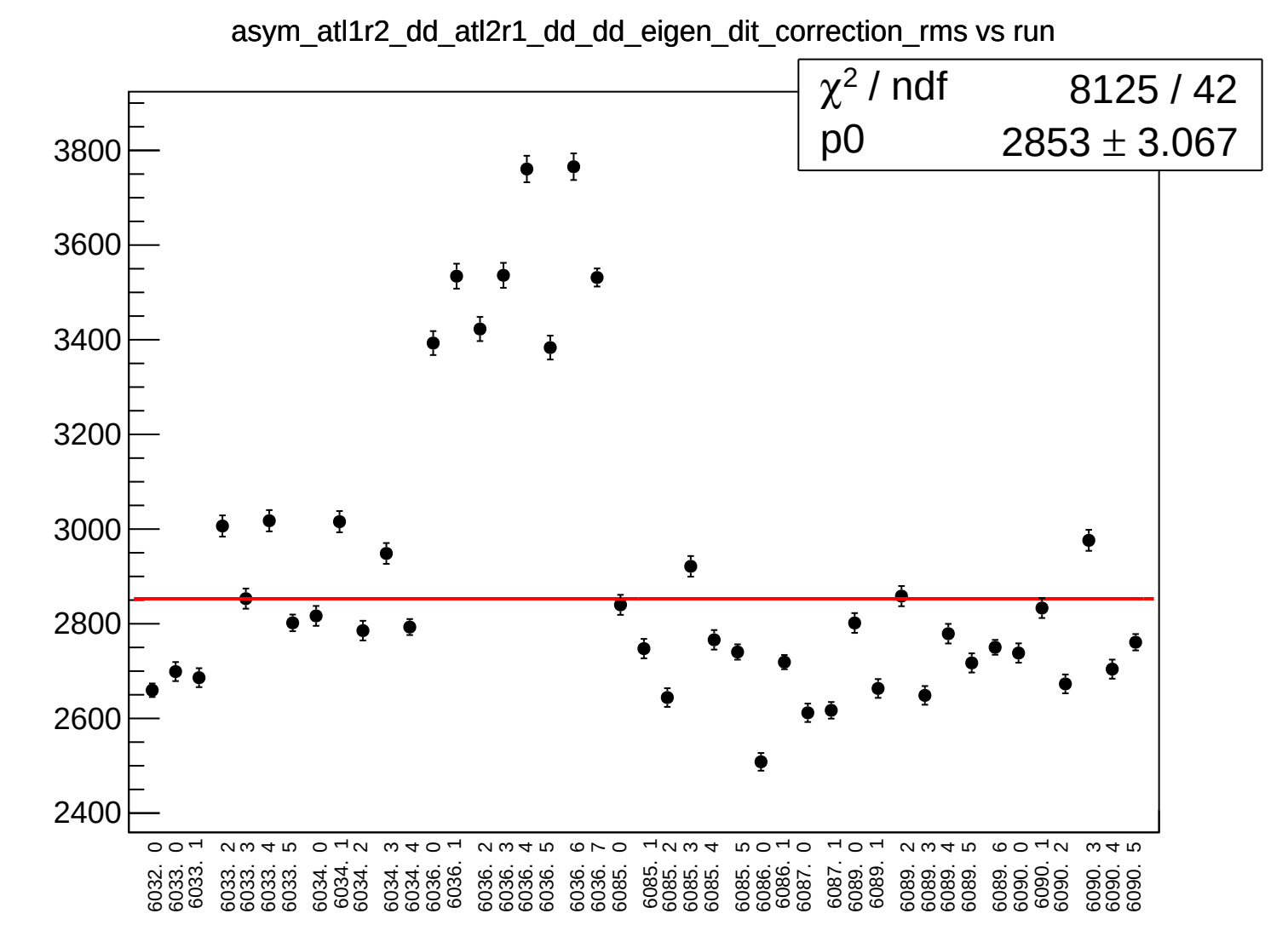

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 26.92 / 42
p0 −107.3 ± 1857
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

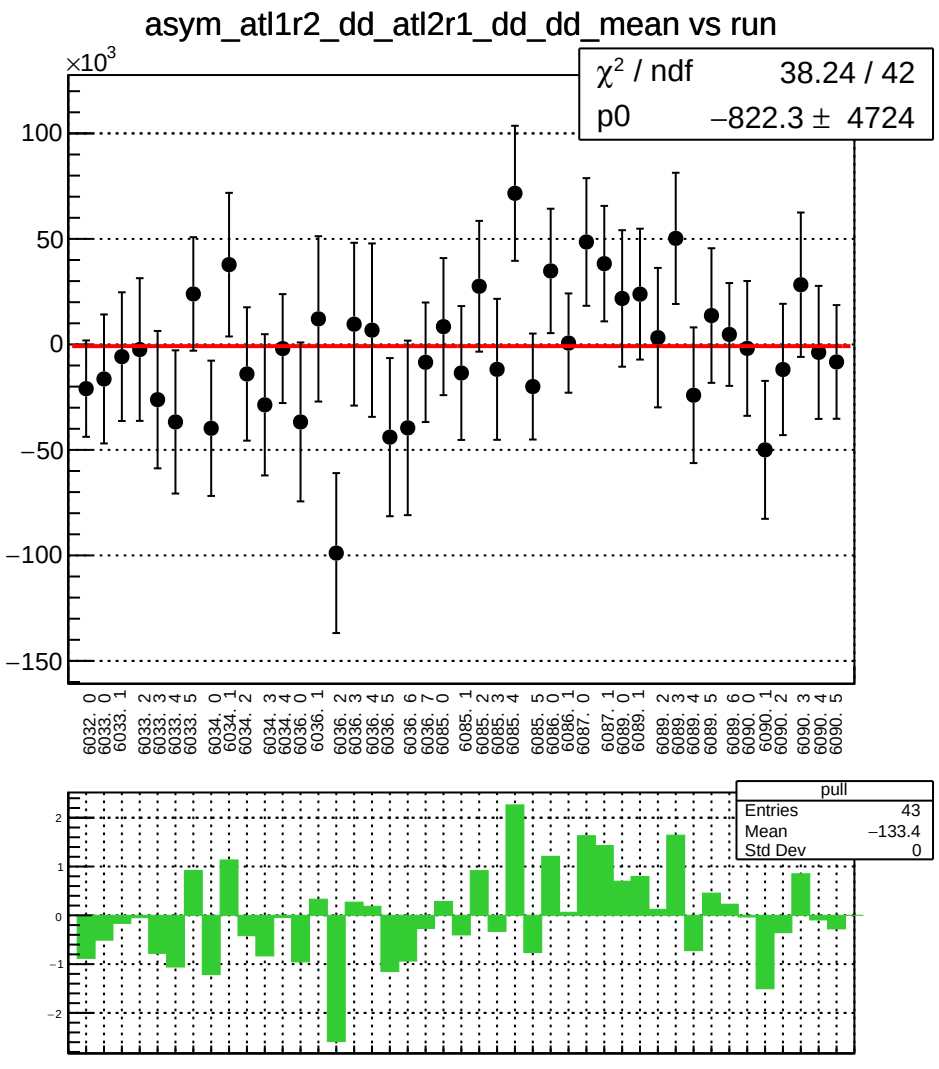

pull1D
Entries 43
Mean 0.0191
Std Dev 0.7909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

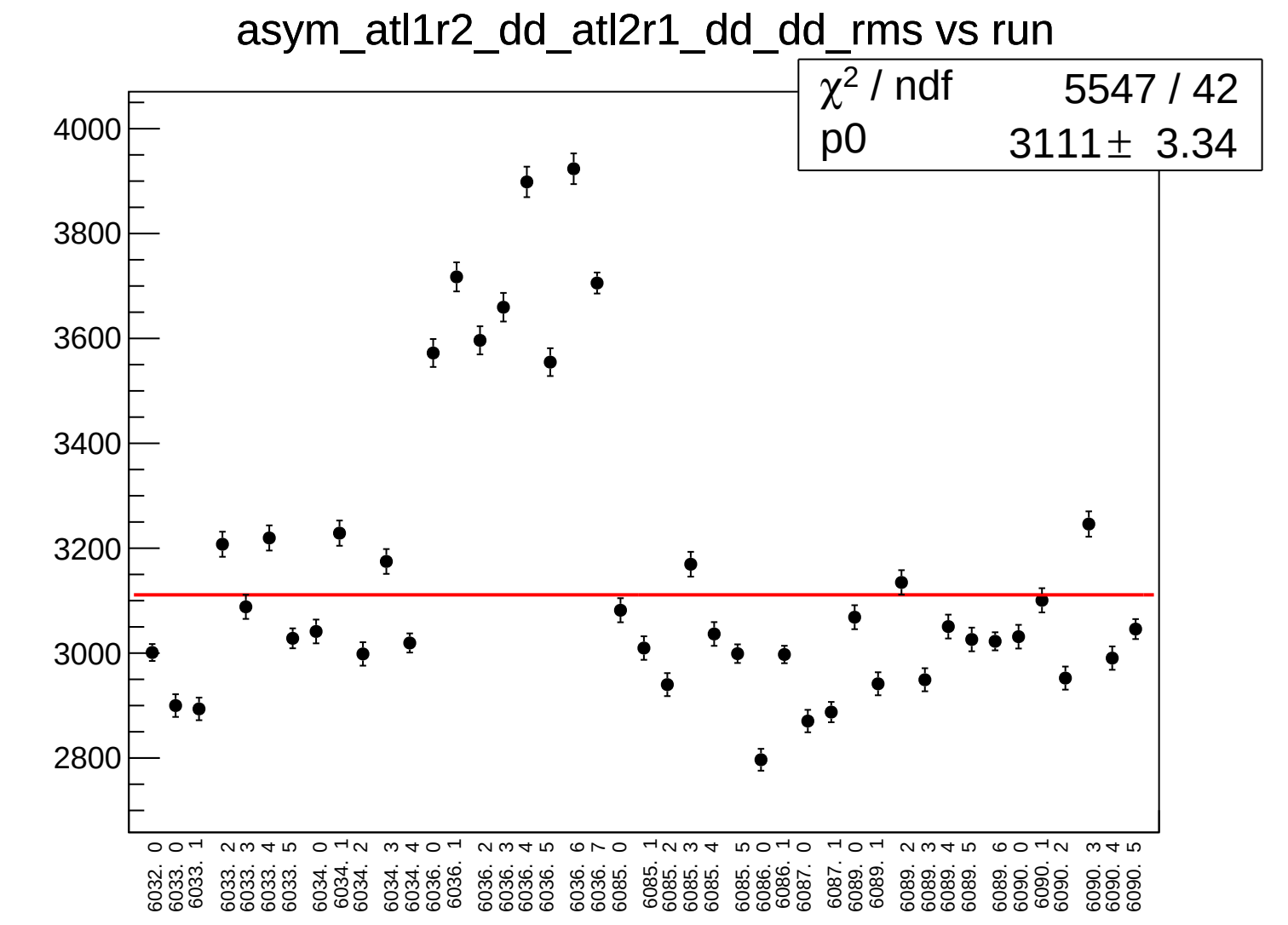

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 929.4 / 42
p0 1226 ± 1.313
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

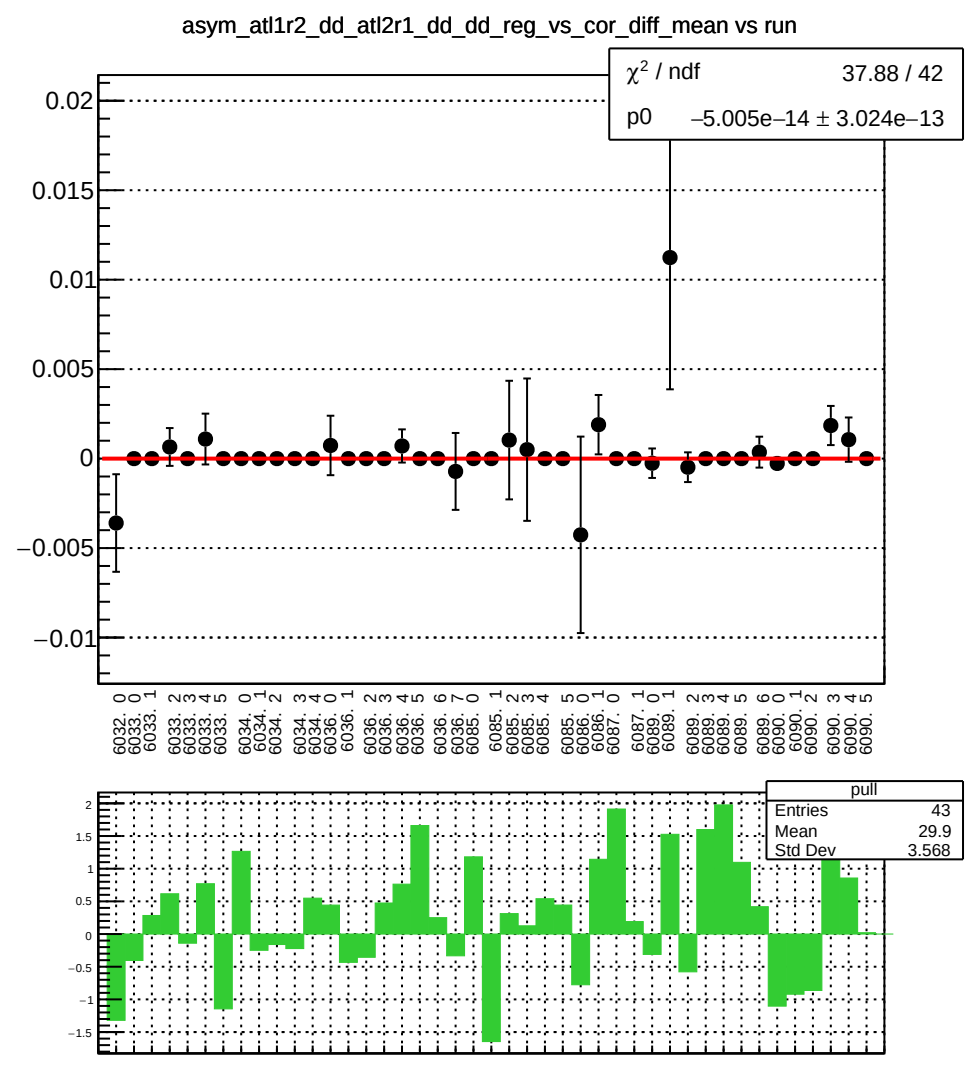

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.12 / 42
p0 273.8 ± 4338
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.88
Std Dev 0
2
1
0
−1
−2

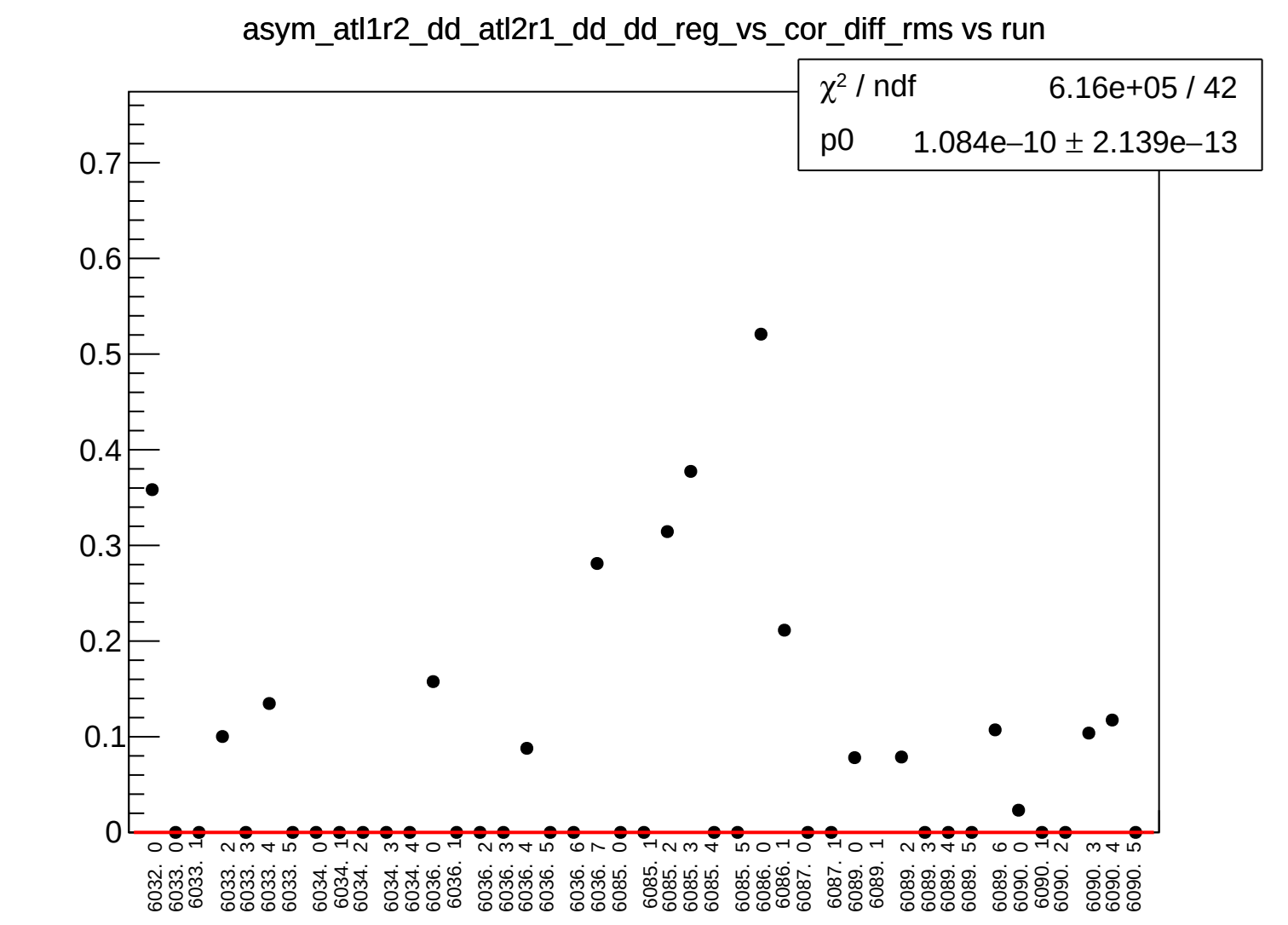

pull1D
Entries 43
Mean 0.03813
Std Dev 0.9771
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

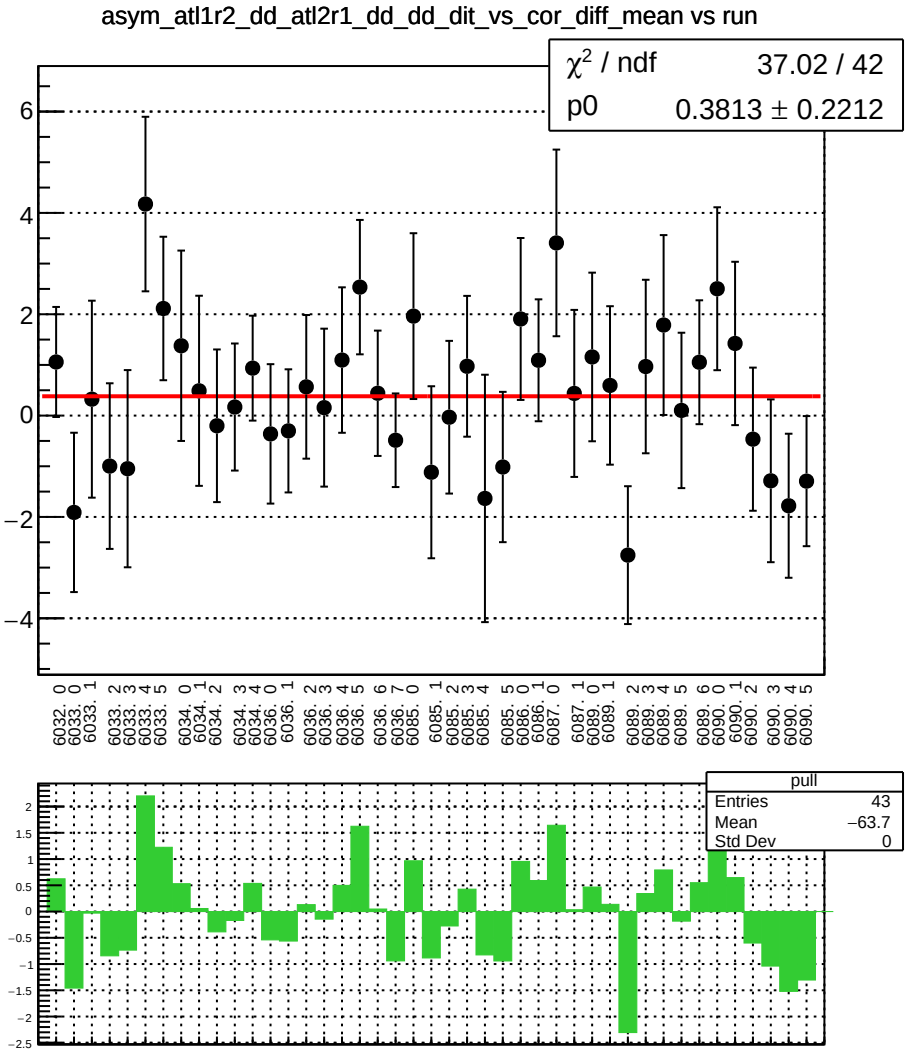

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8125 / 42
p0 2853 ± 3.067
3800
3600
3400
3200
3000
2800
2600
2400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

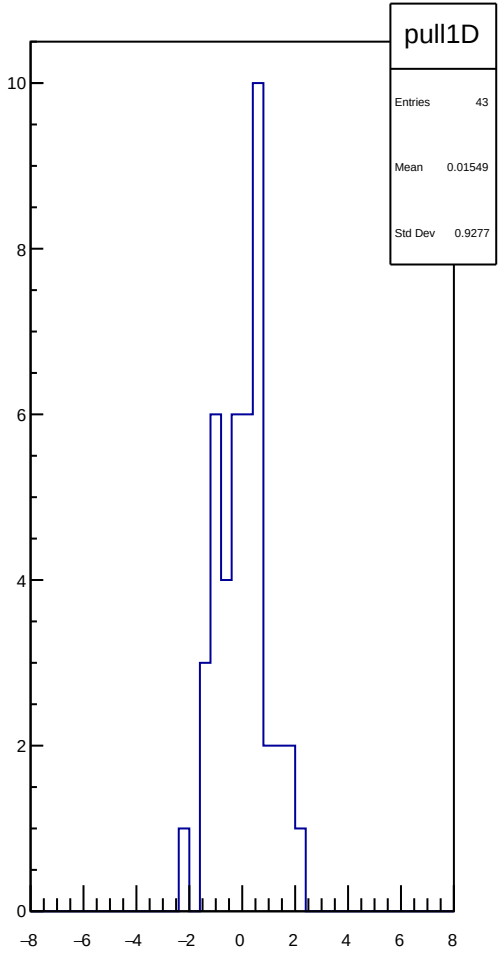

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 38.24 / 42
p0 −822.3 ± 4724
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −133.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02101
Std Dev 0.9428
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

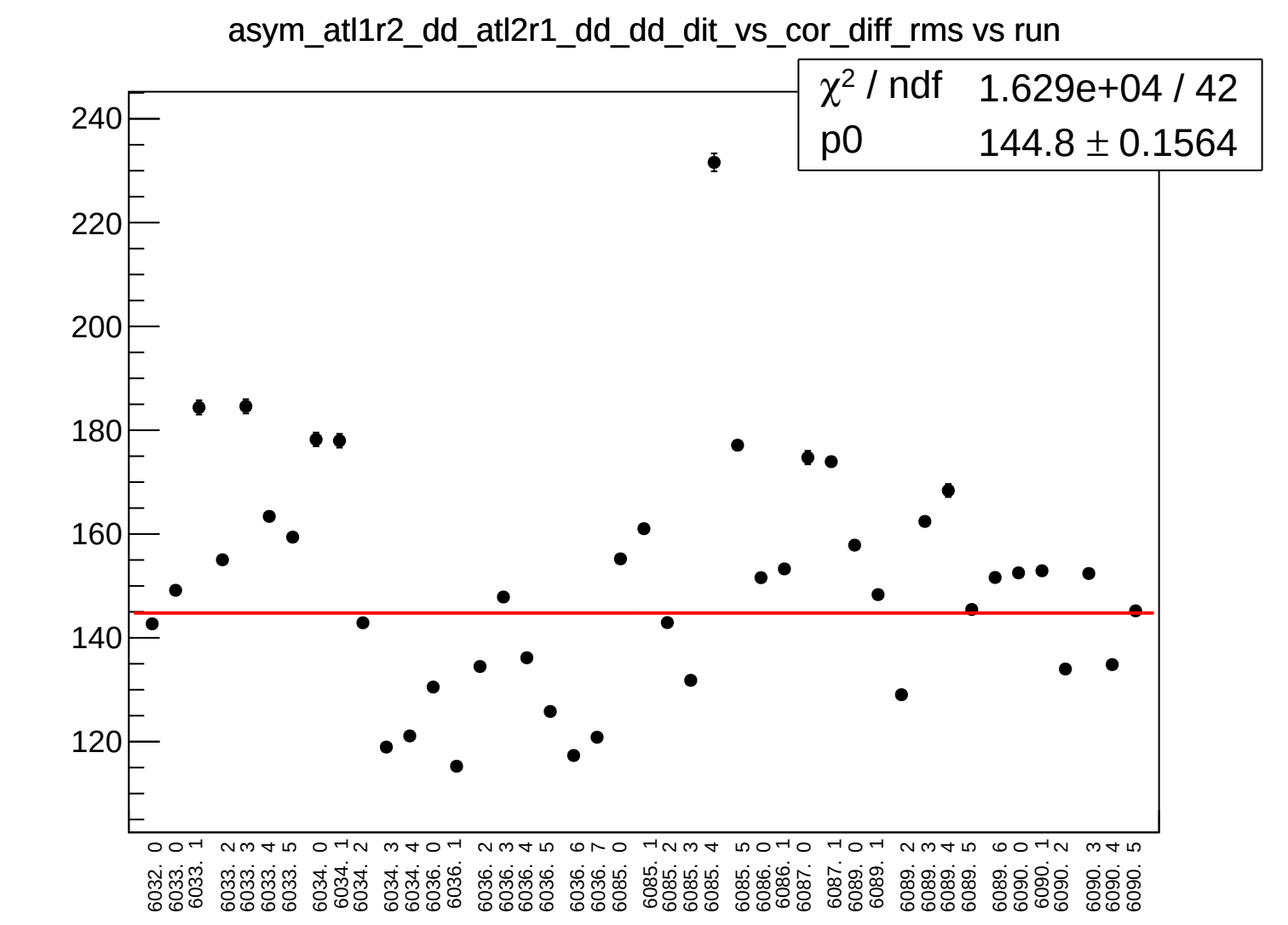

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 5547 / 42
p0 3111 ± 3.34
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

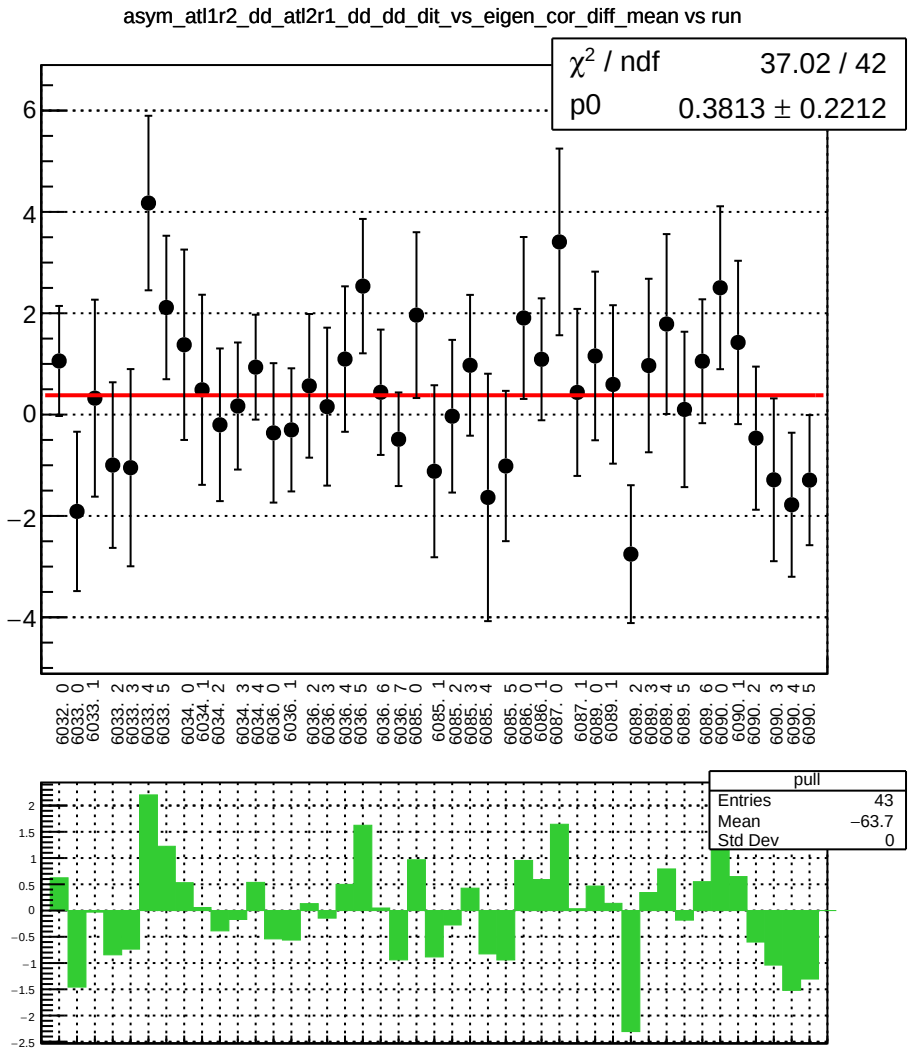

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 37.88 / 42
p0 −5.005e−14 ± 3.024e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 29.9
Std Dev 3.568
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2593
Std Dev 0.9021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

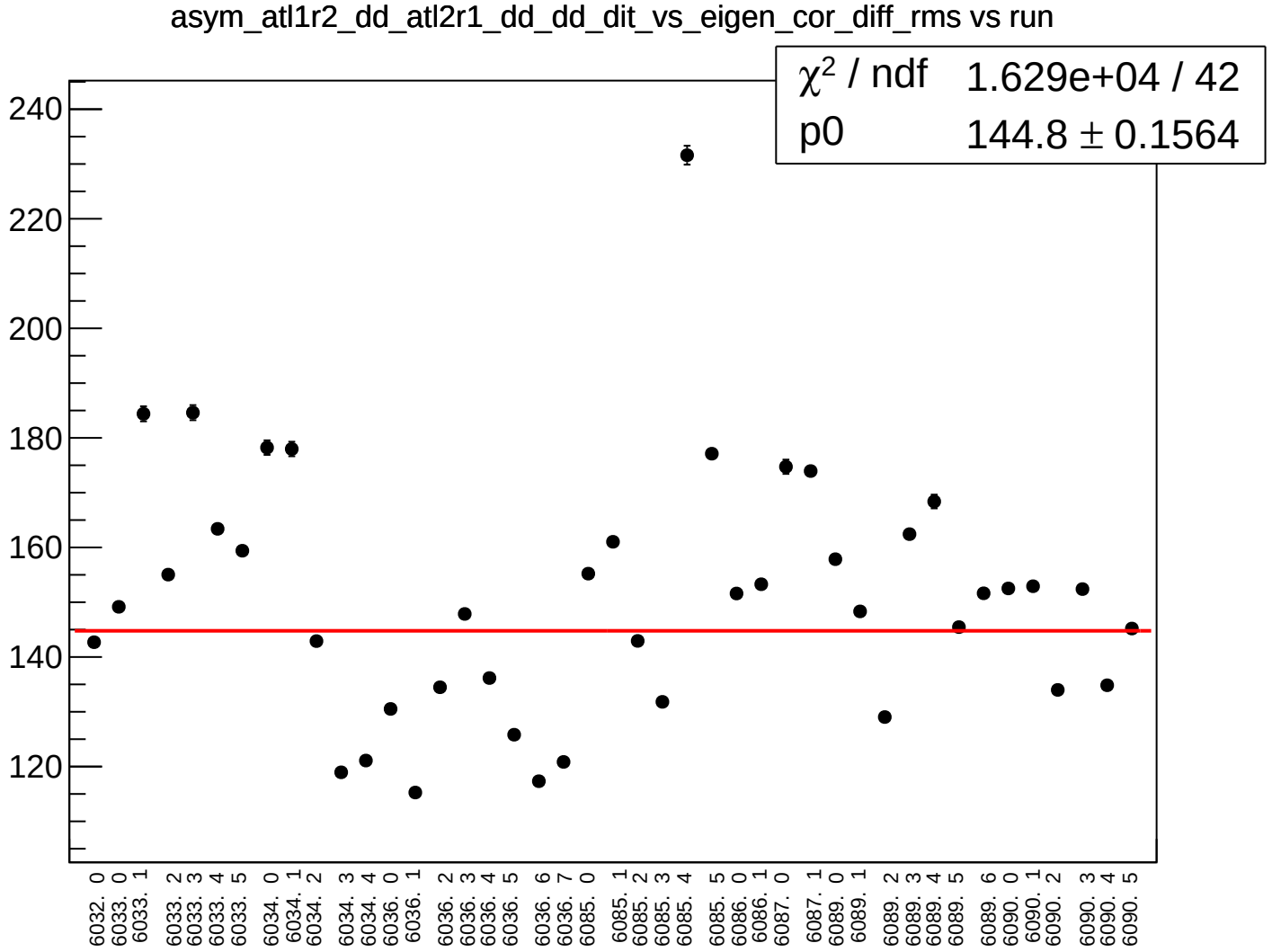

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.16e+05 / 42
p0 1.084e−10 ± 2.139e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

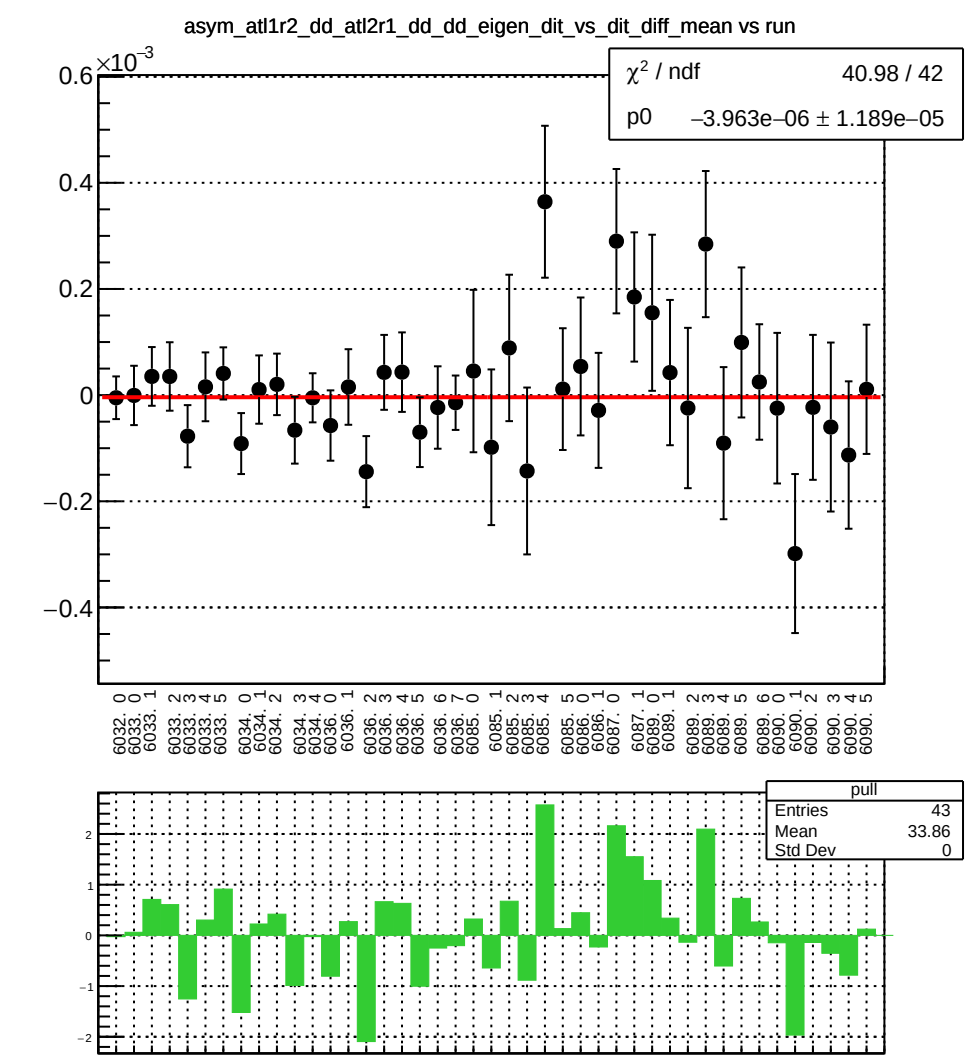

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
pull
Entries 43
Mean −63.7
Std Dev 0

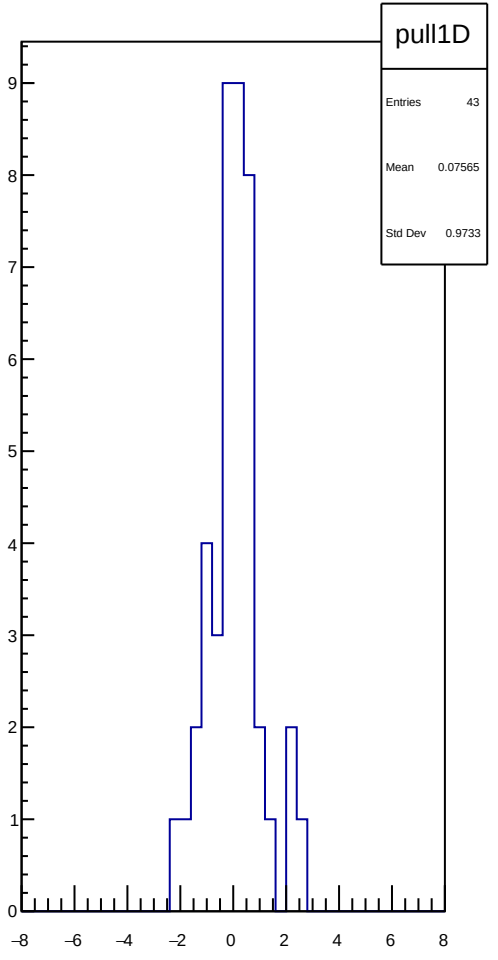

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277

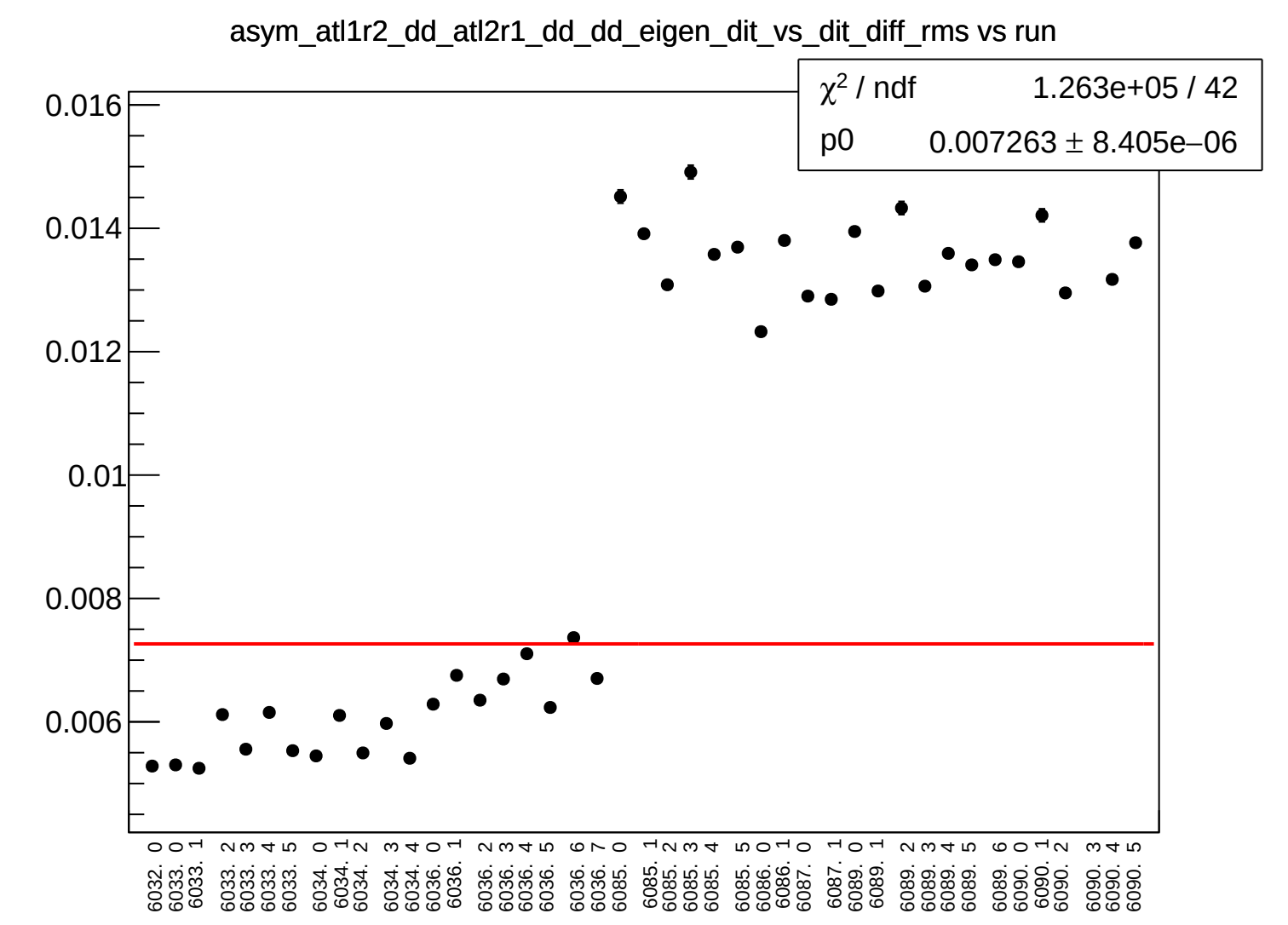

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

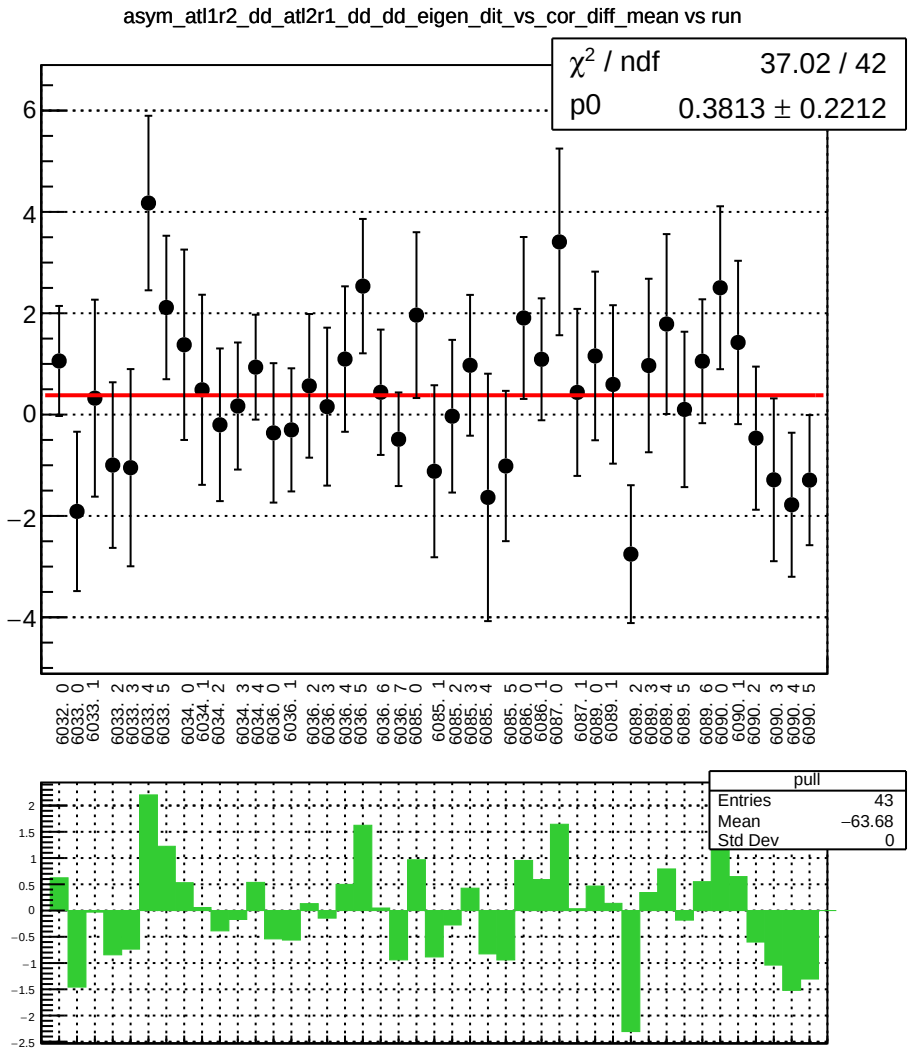

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.7
Std Dev 0
pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277

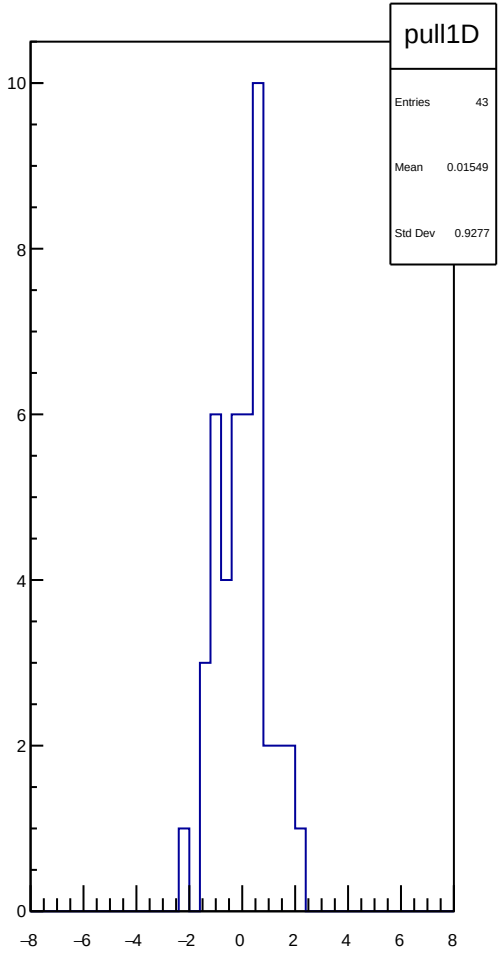

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

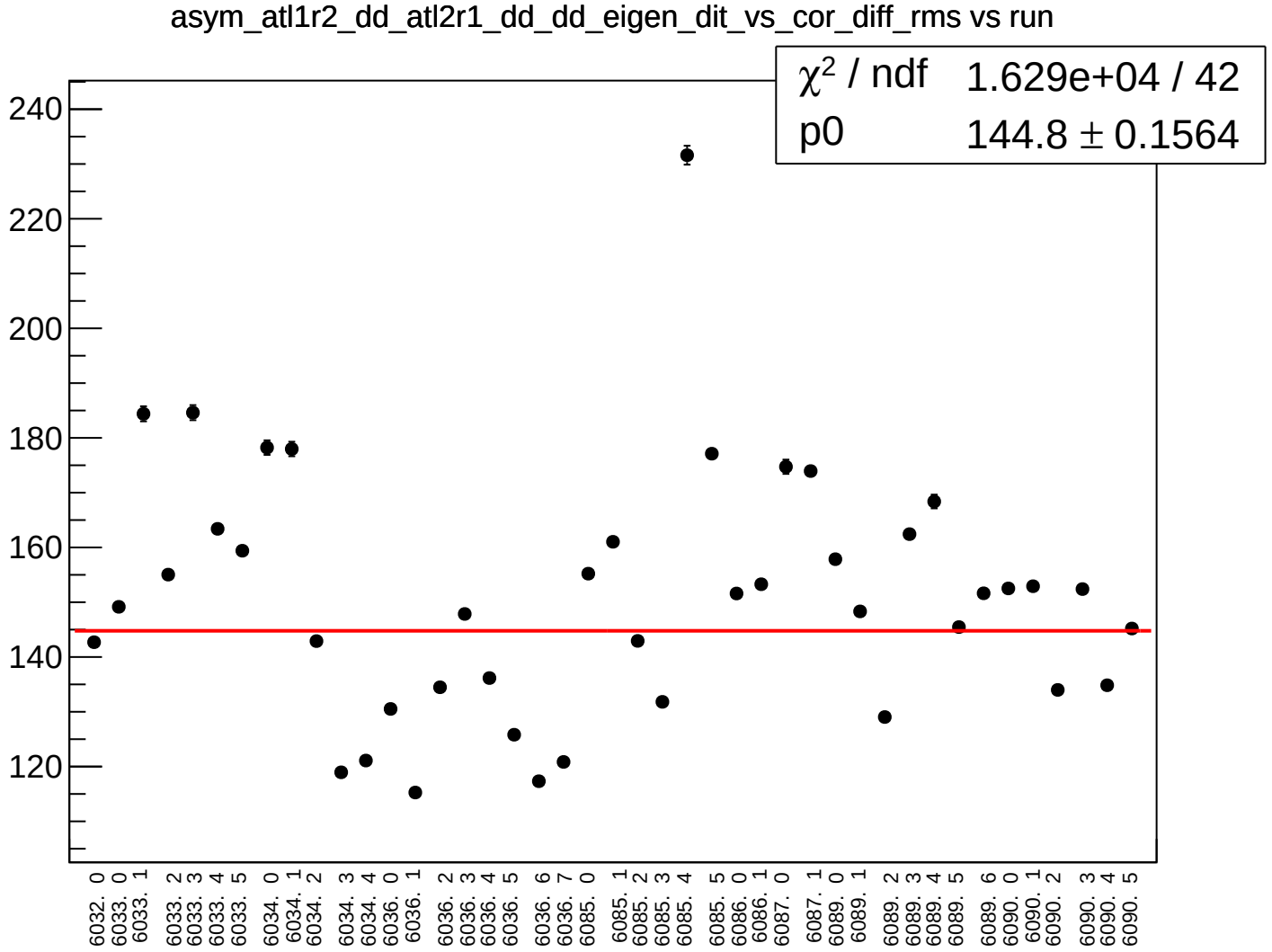

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.98 / 42
p0 −3.963e−06 ± 1.189e−05
pull
Entries 43
Mean 33.86
Std Dev 0

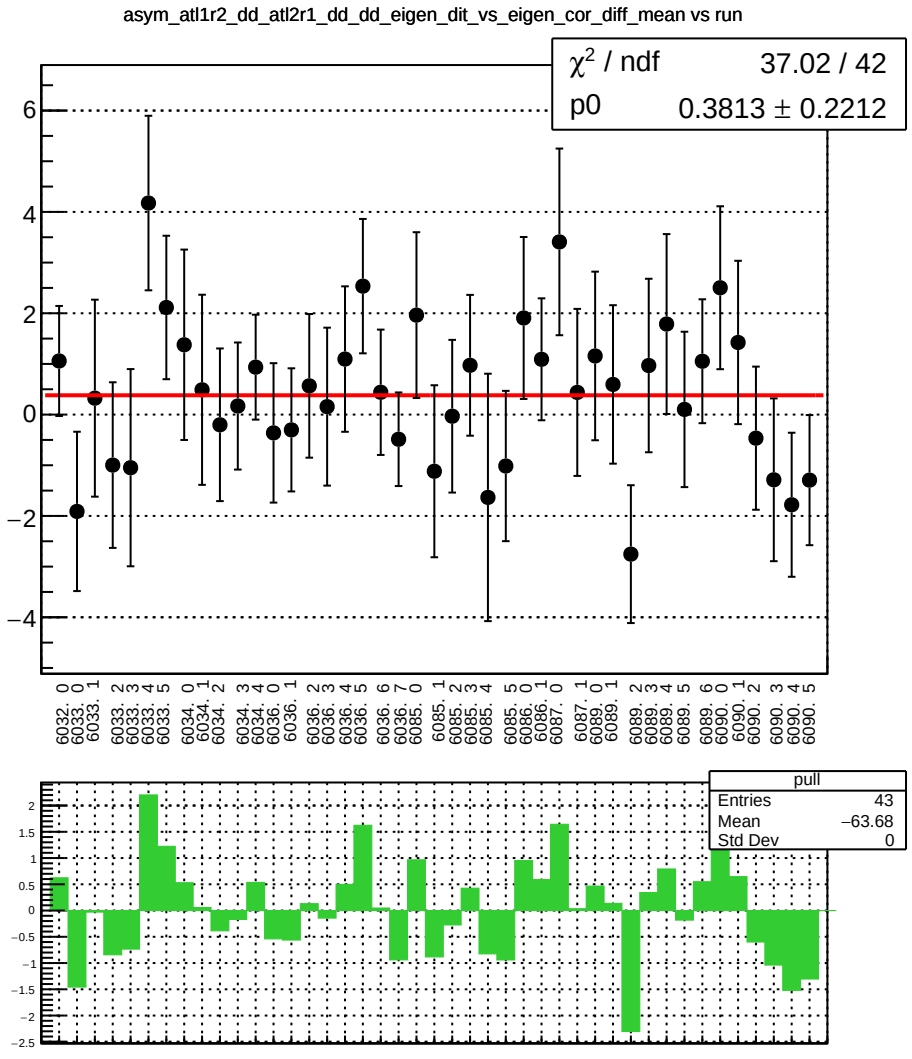

pull1D
Entries 43
Mean 0.07565
Std Dev 0.9733

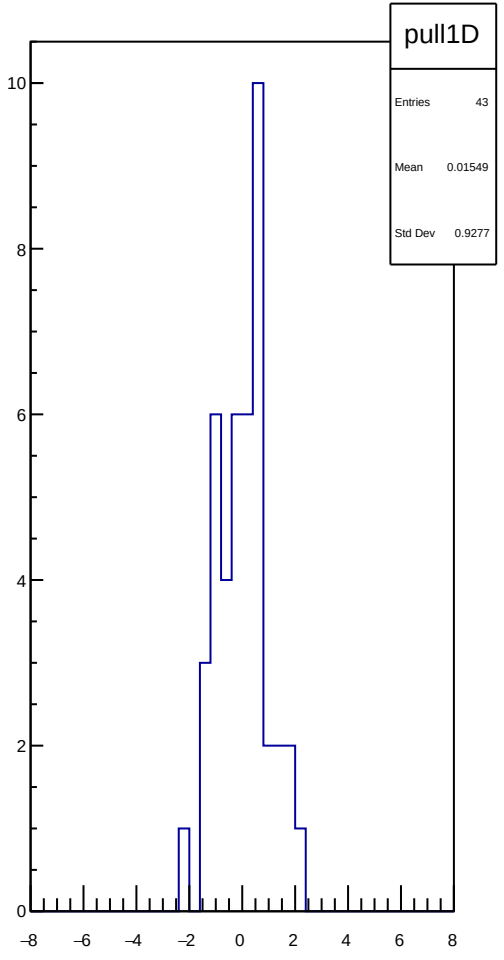

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.263e+05 / 42
p0 0.007263 ± 8.405e−06
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

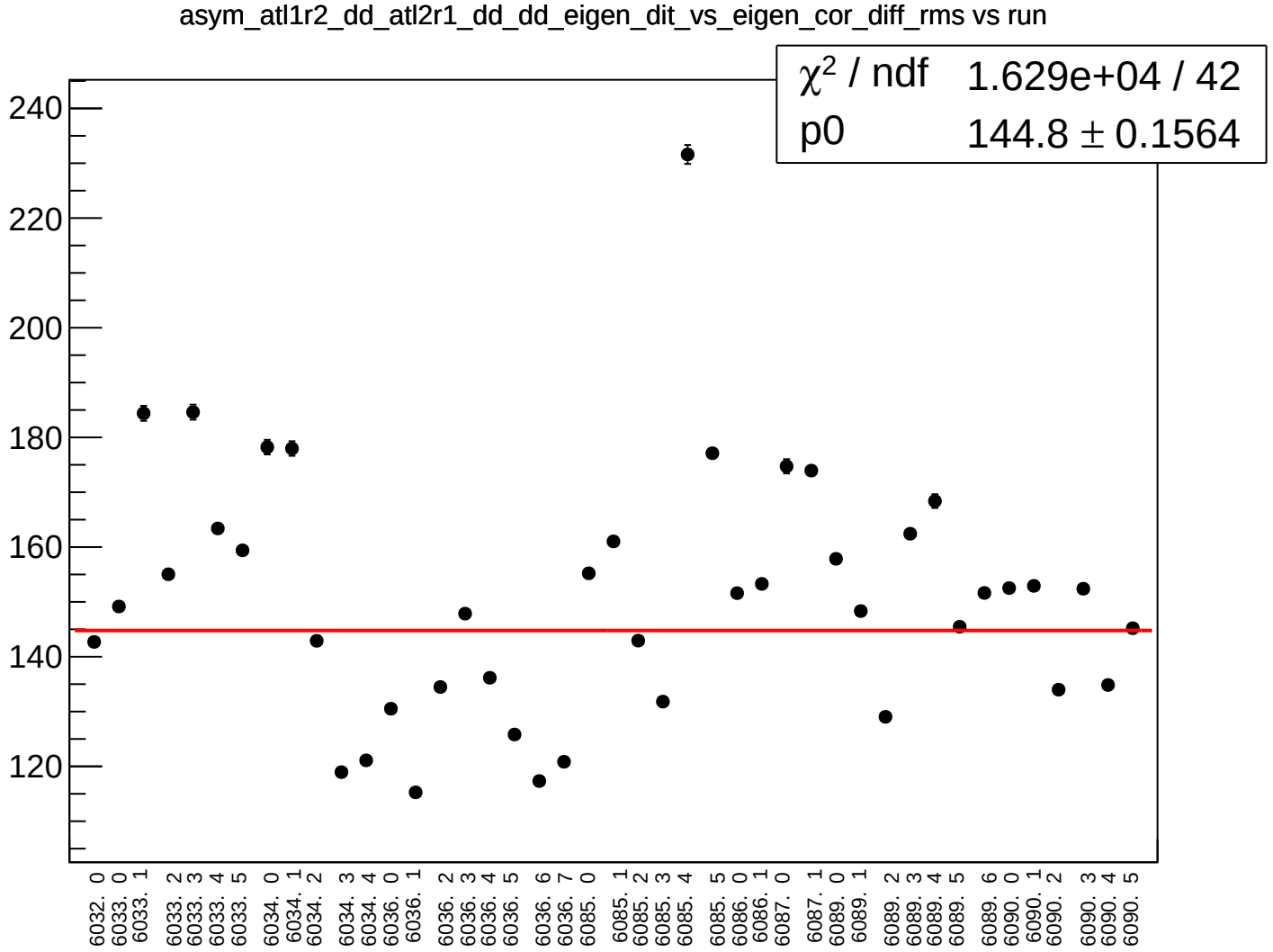

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −63.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

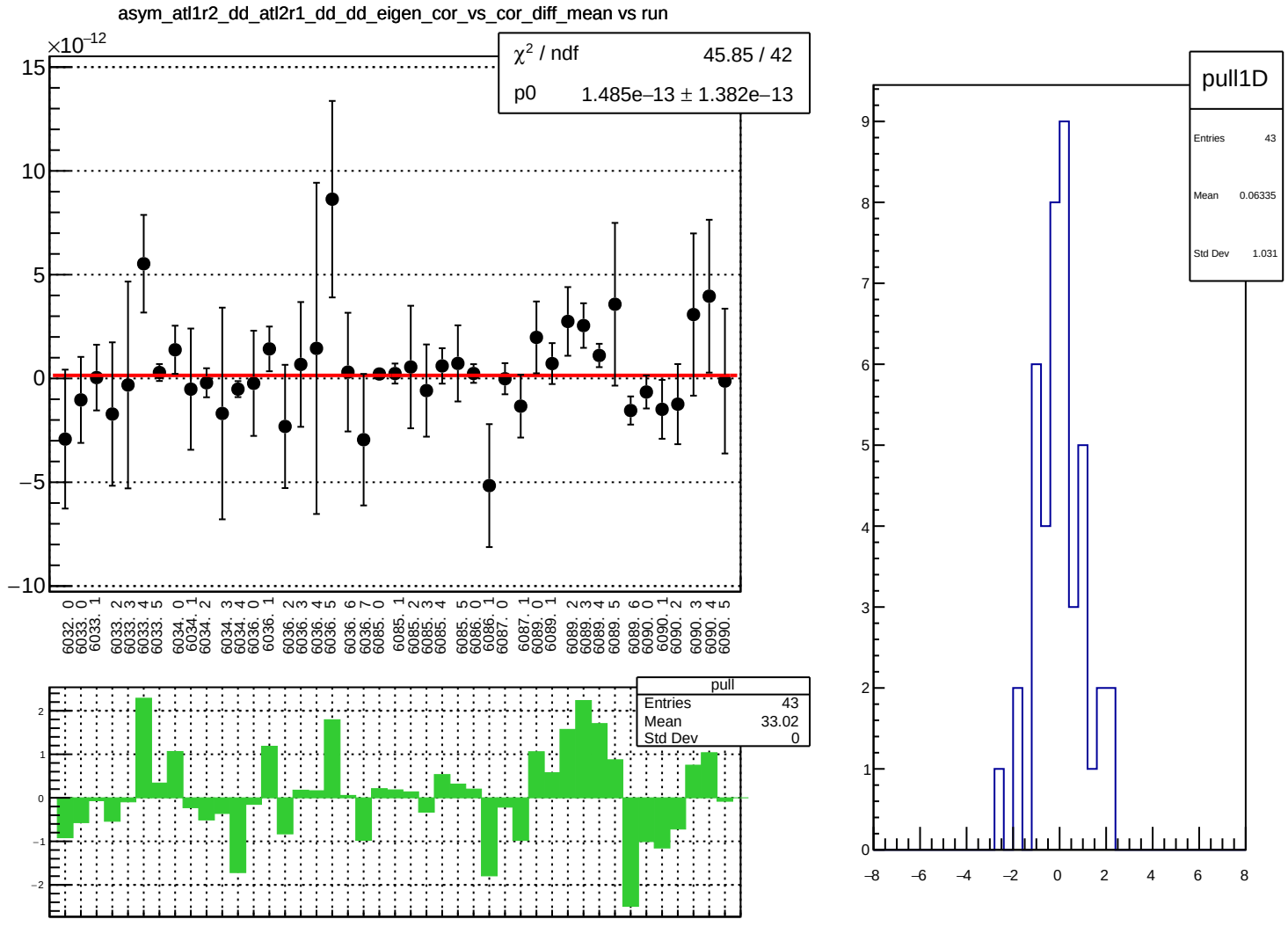

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

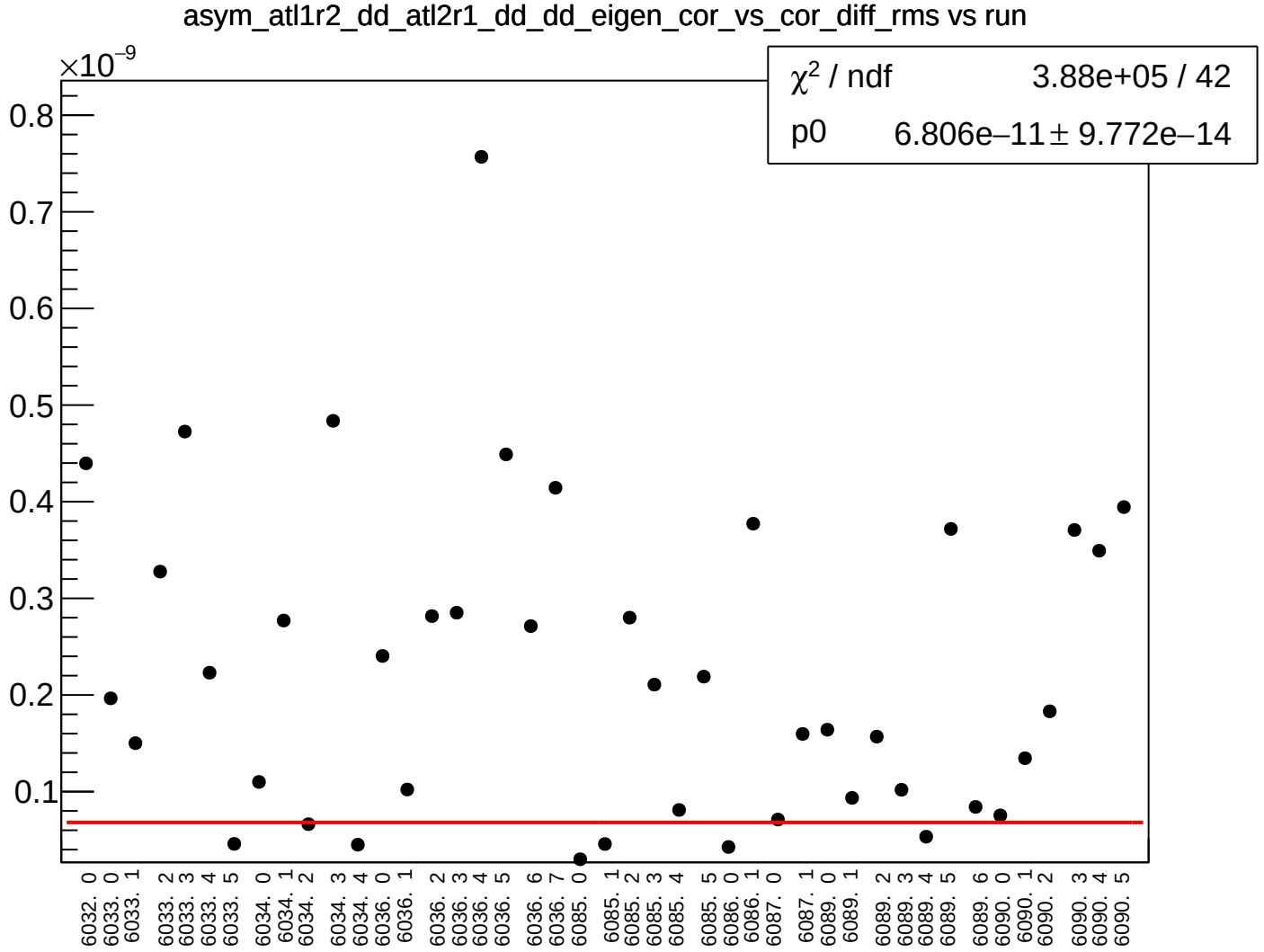

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

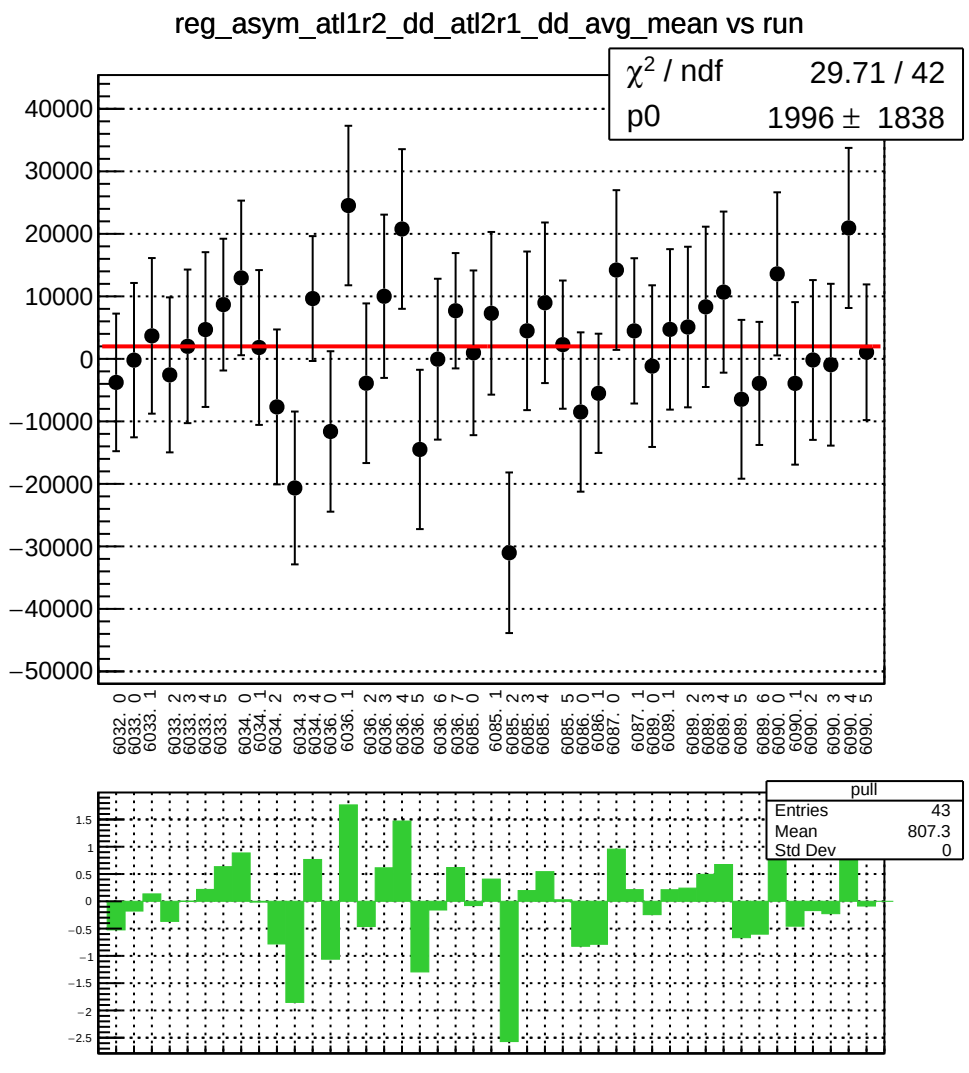

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 42
p0 0.3813 ± 0.2212
pull
Entries 43
Mean −63.68
Std Dev 0

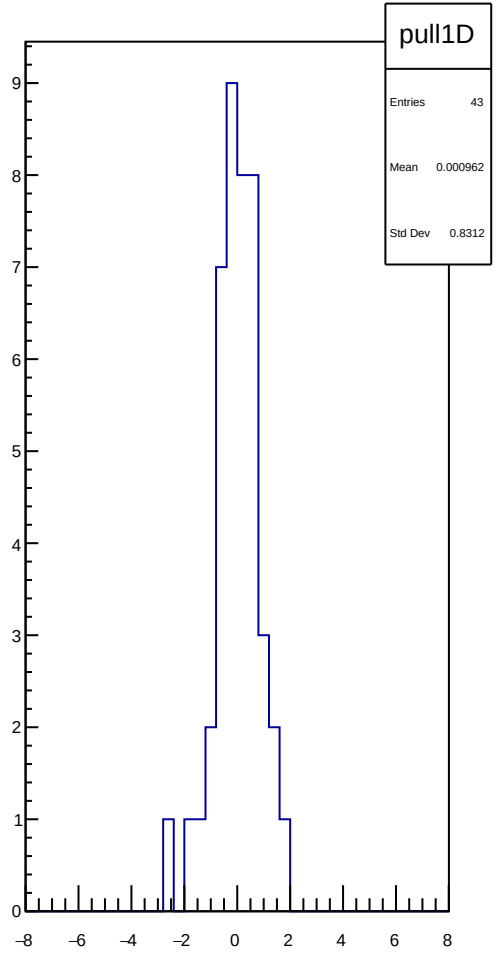

pull1D
Entries 43
Mean 0.01549
Std Dev 0.9277

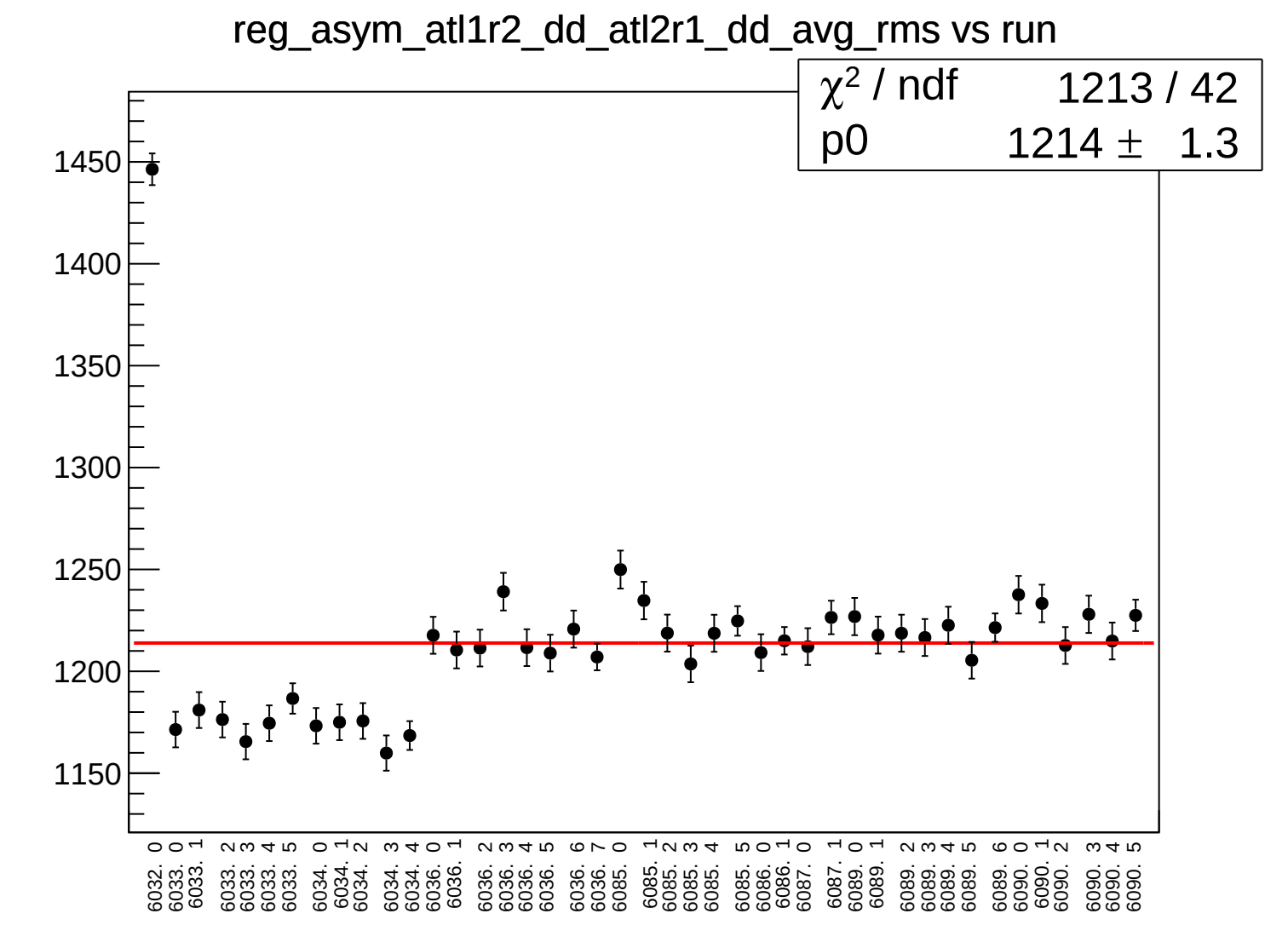

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.629e+04 / 42
p0 144.8 ± 0.1564
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

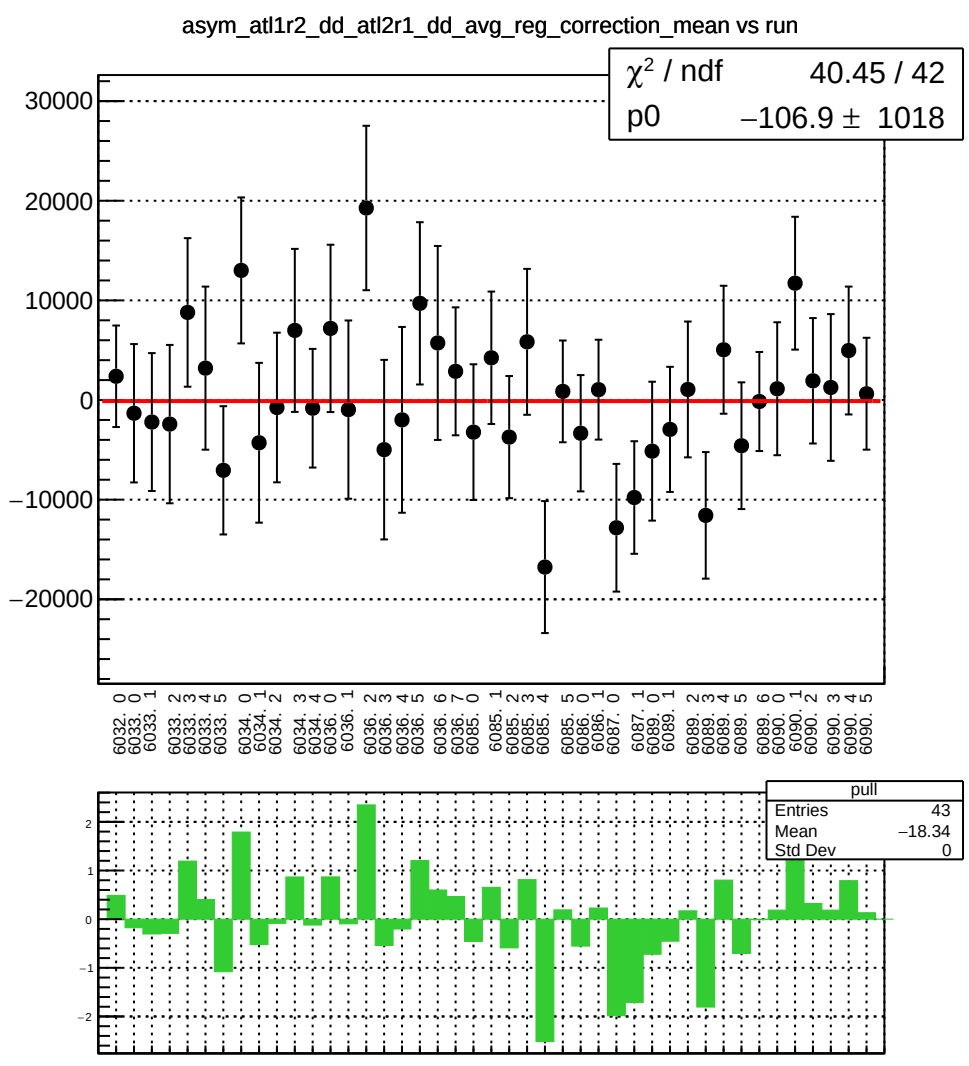

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.85 / 42
p0 1.485e−13 ± 1.382e−13
15
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 33.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.06335
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

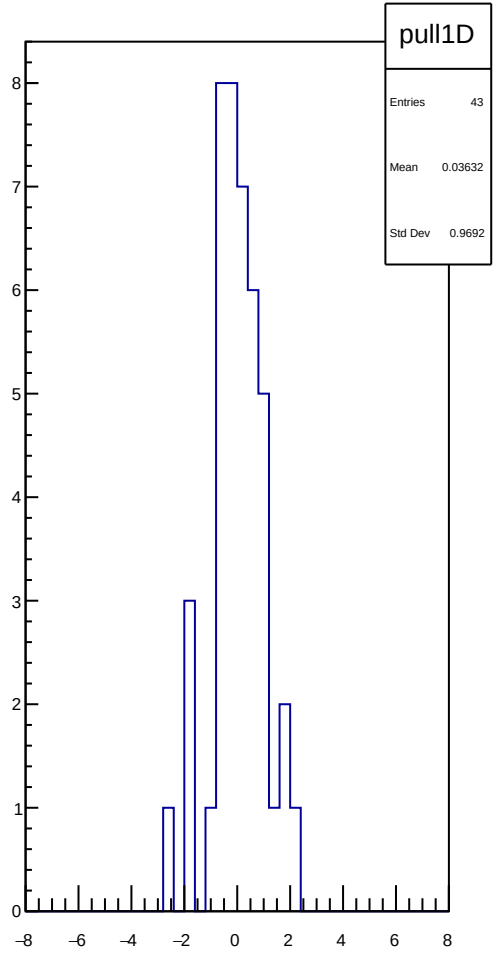

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.88e+05 / 42
p0 6.806e−11 ± 9.772e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

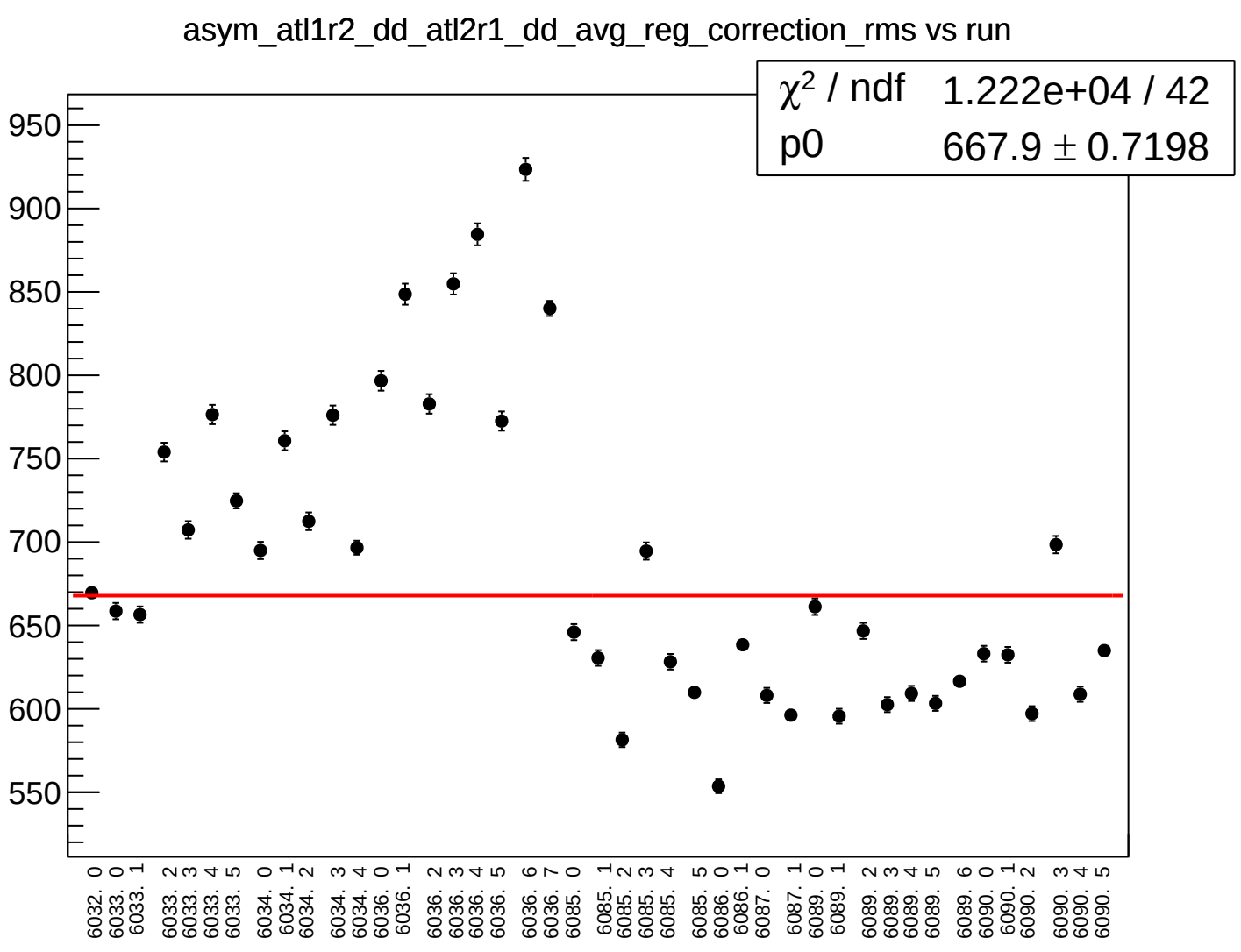

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 29.71 / 42
p0 1996 ± 1838
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 807.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

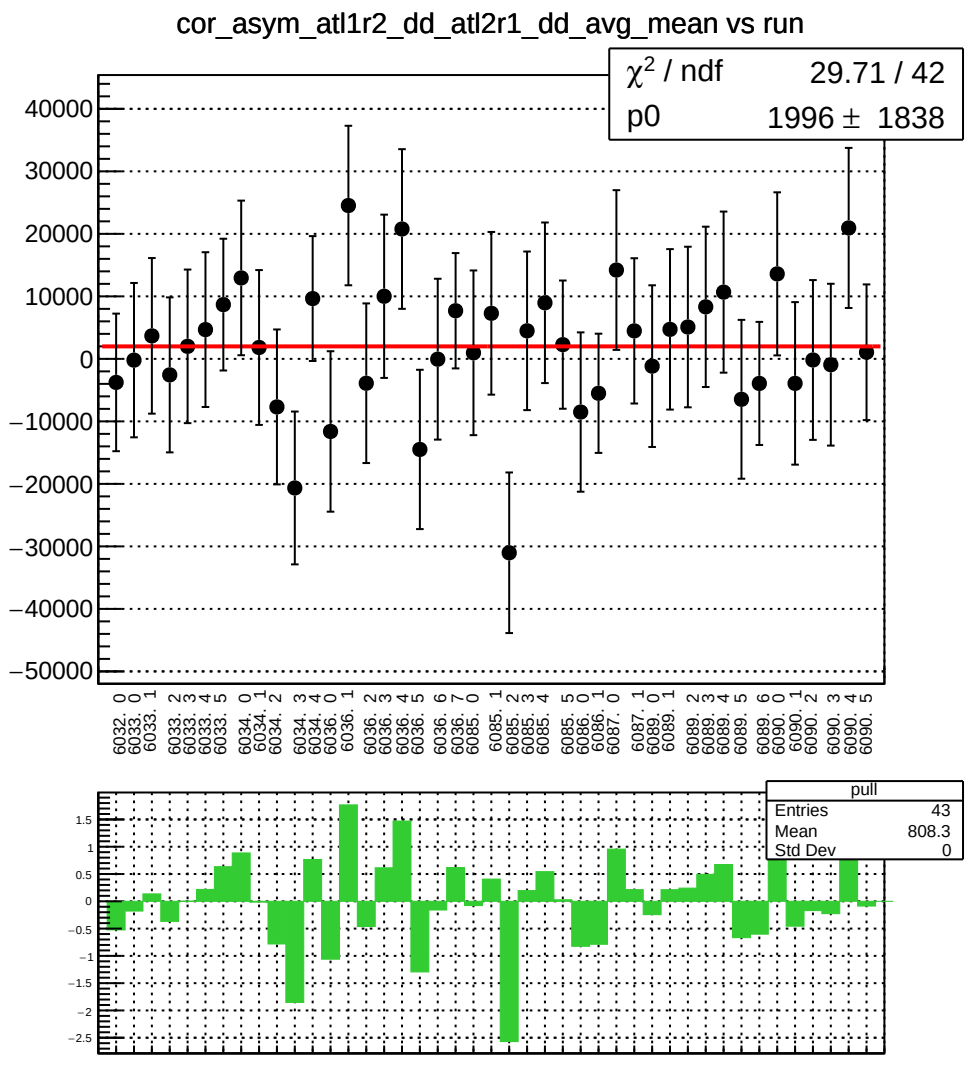

pull1D
Entries 43
Mean 0.000962
Std Dev 0.8312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

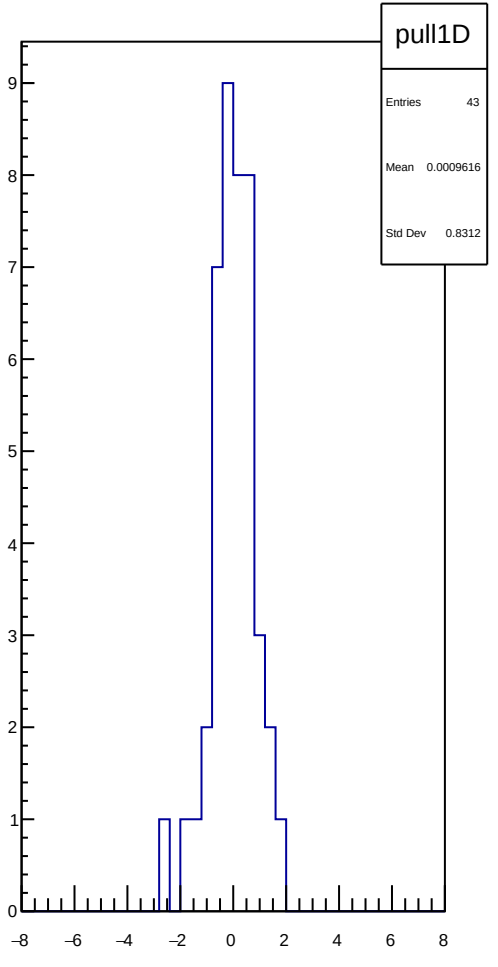

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1213 / 42
p0 1214 ± 1.3
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

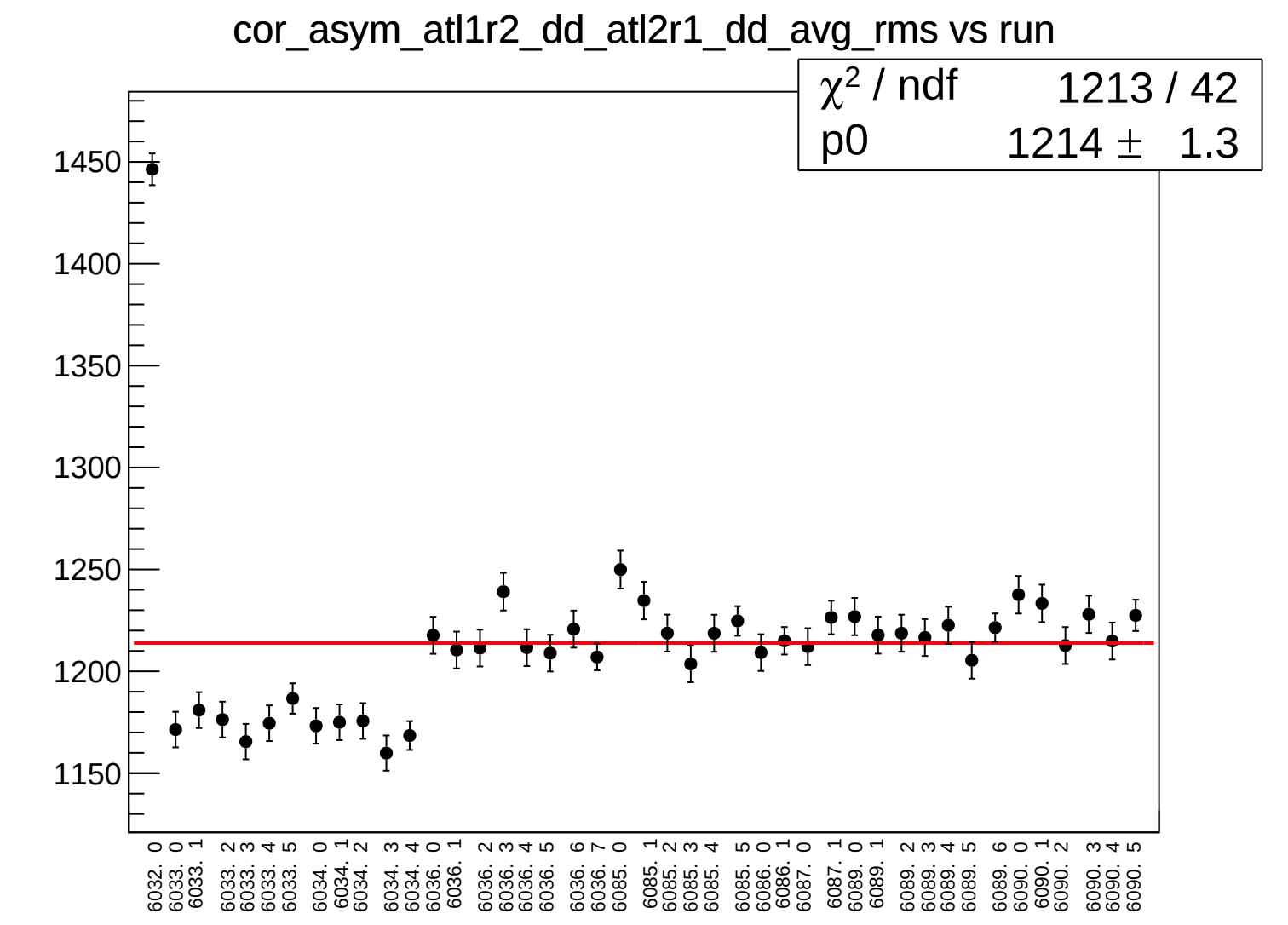

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 40.45 / 42
p0 −106.9 ± 1018
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.34
Std Dev 0
2
1
0
−1
−2

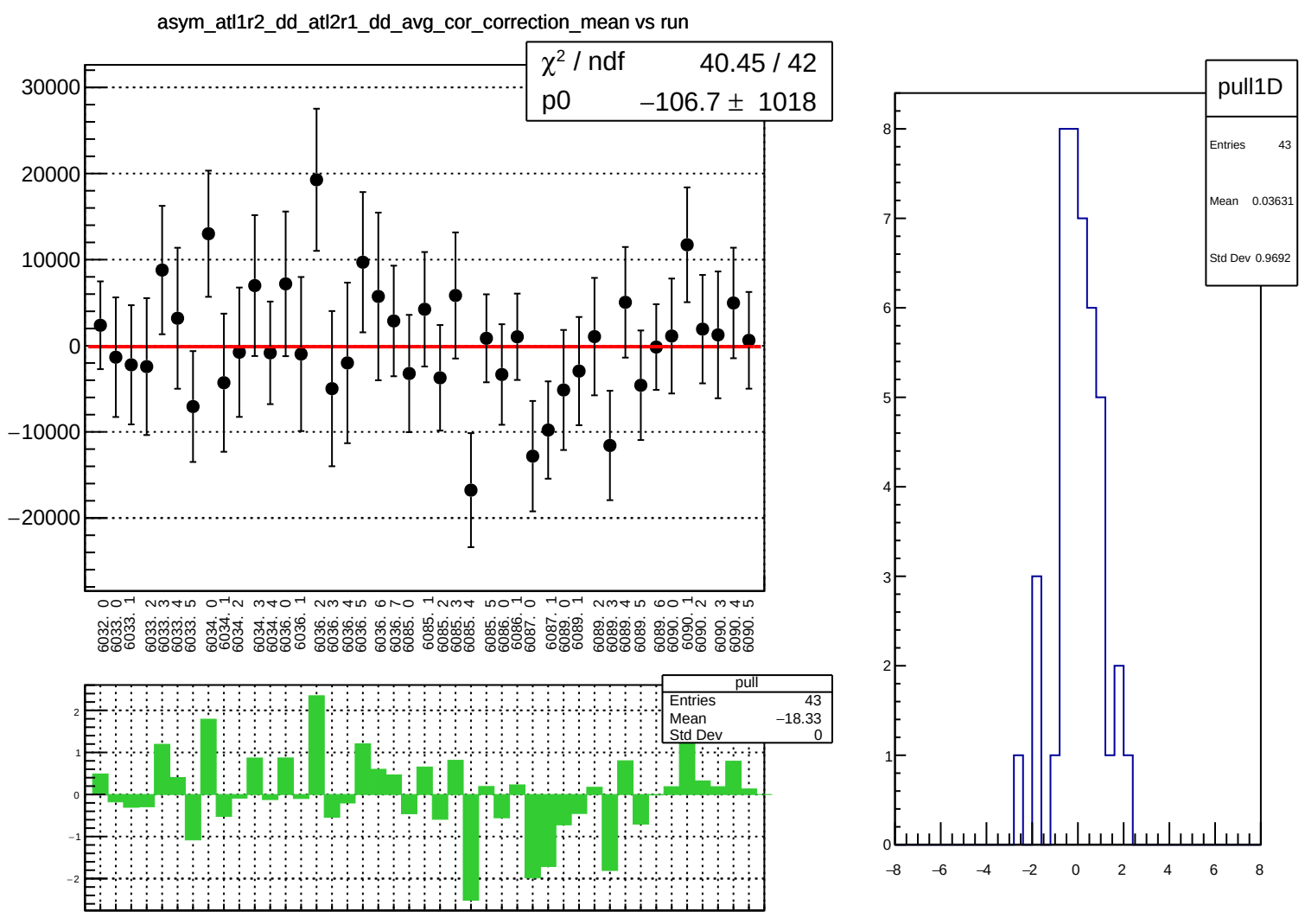

pull1D
Entries 43
Mean 0.03632
Std Dev 0.9692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

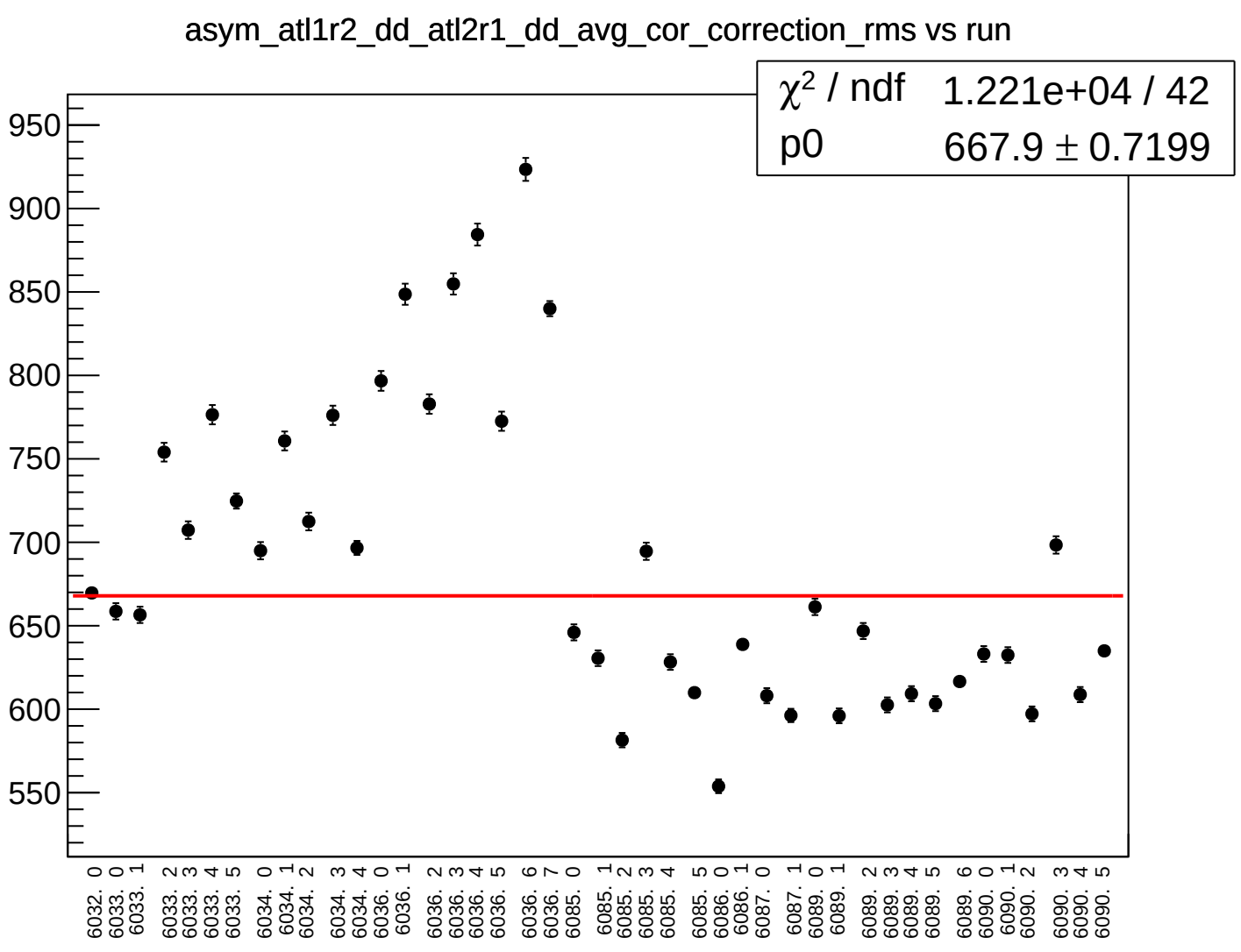

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.222e+04 / 42
p0 667.9 ± 0.7198
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

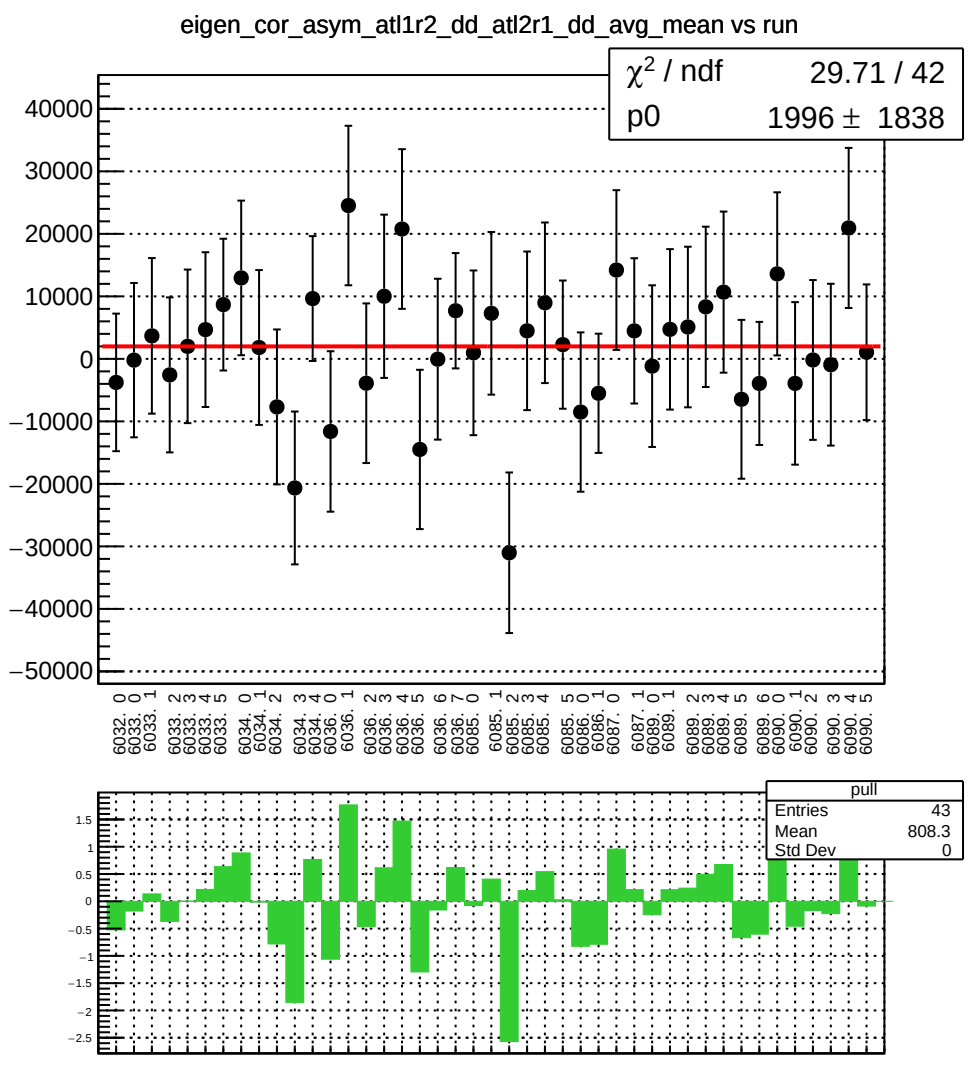

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 29.71 / 42
p0 1996 ± 1838
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 808.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

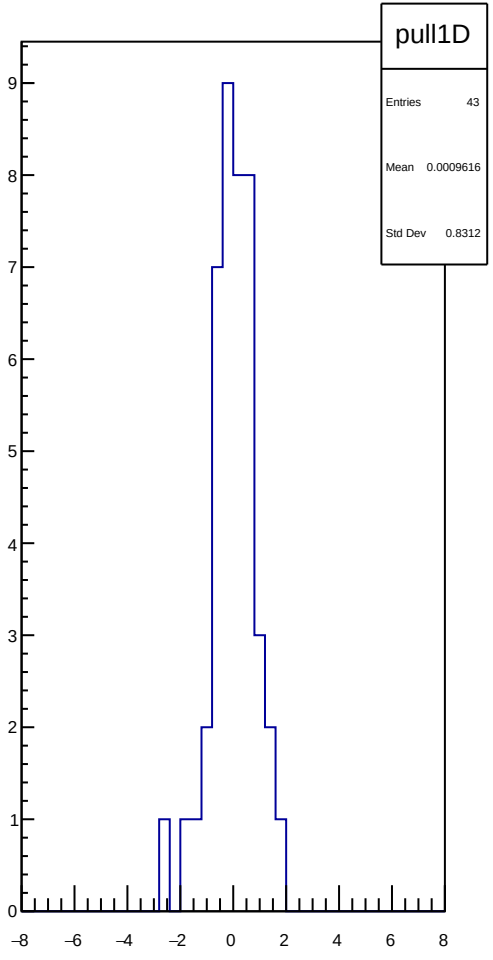

pull1D
Entries 43
Mean 0.0009616
Std Dev 0.8312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

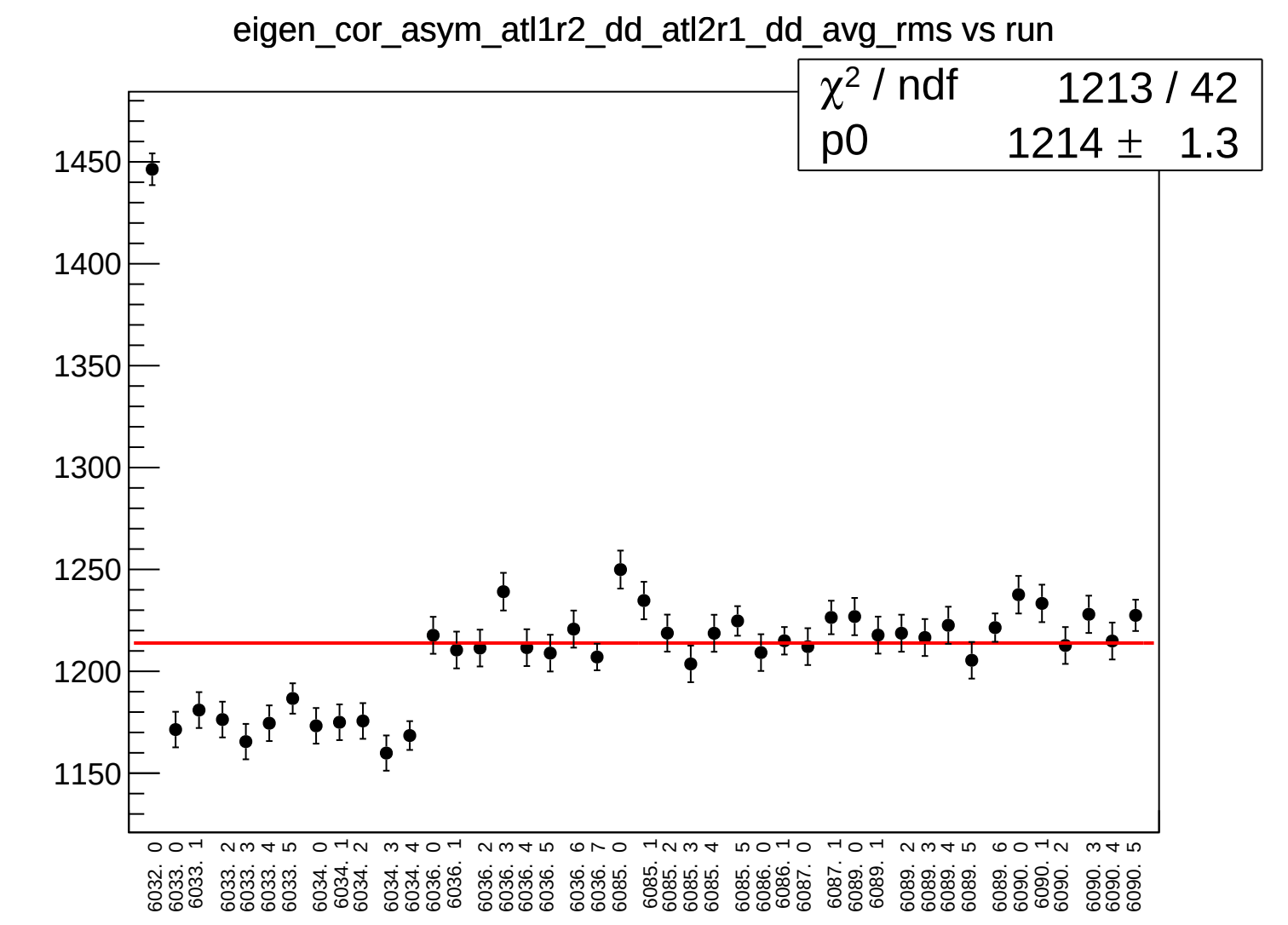

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1213 / 42
p0 1214 ± 1.3
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

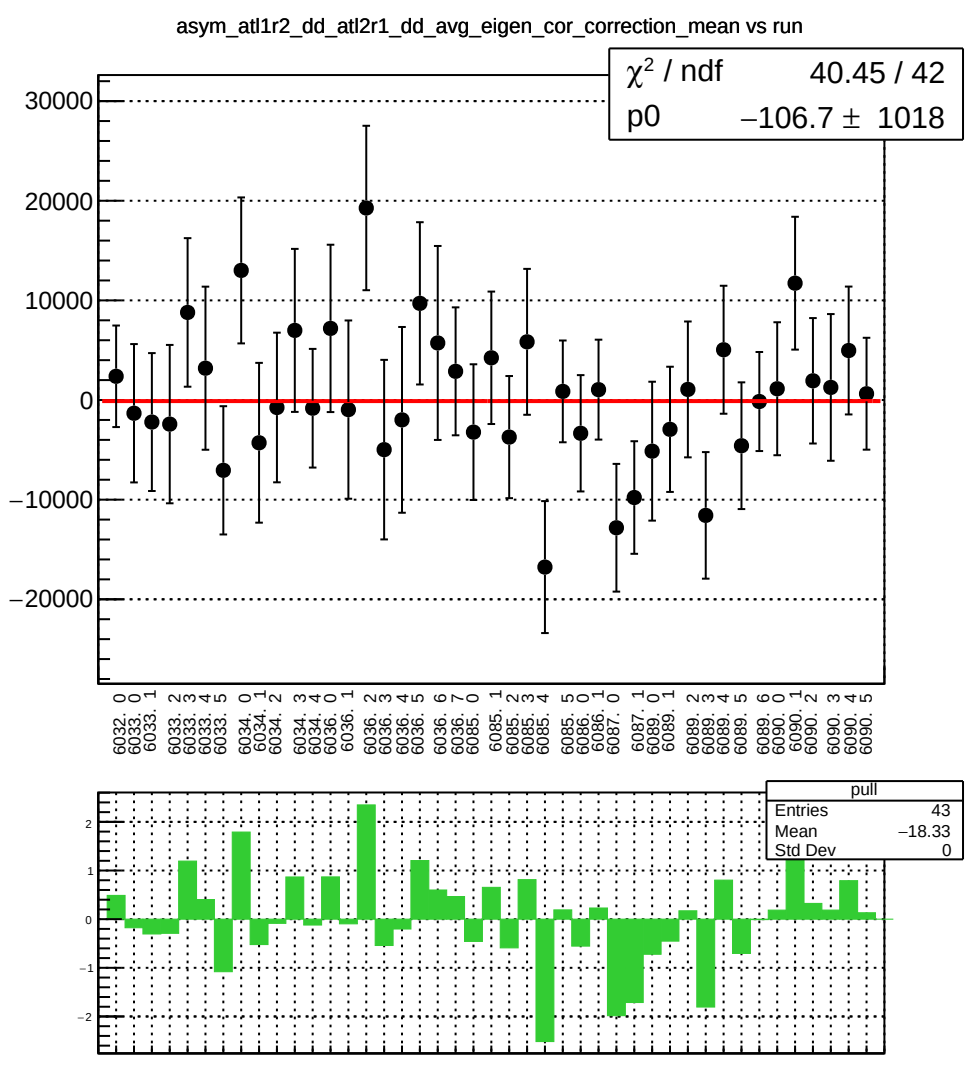

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 40.45 / 42
p0 −106.7 ± 1018
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03631
Std Dev 0.9692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

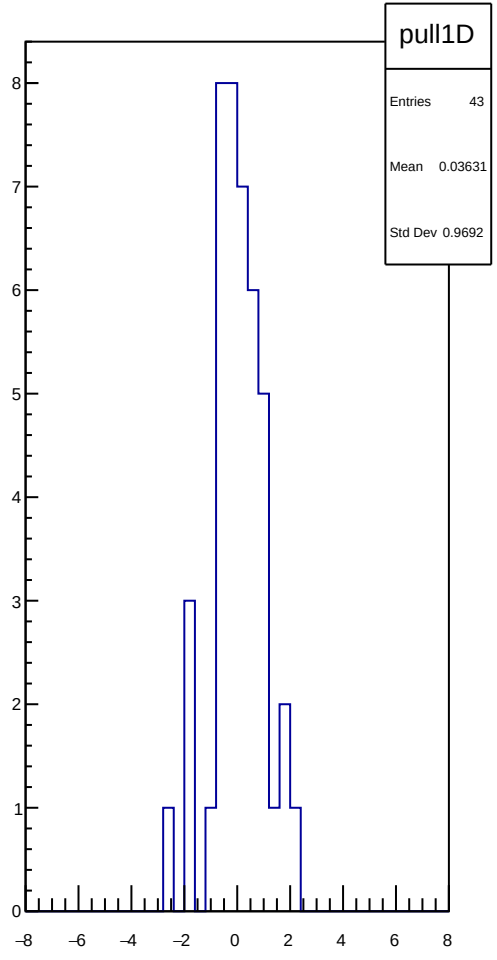

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.221e+04 / 42
p0 667.9 ± 0.7199
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

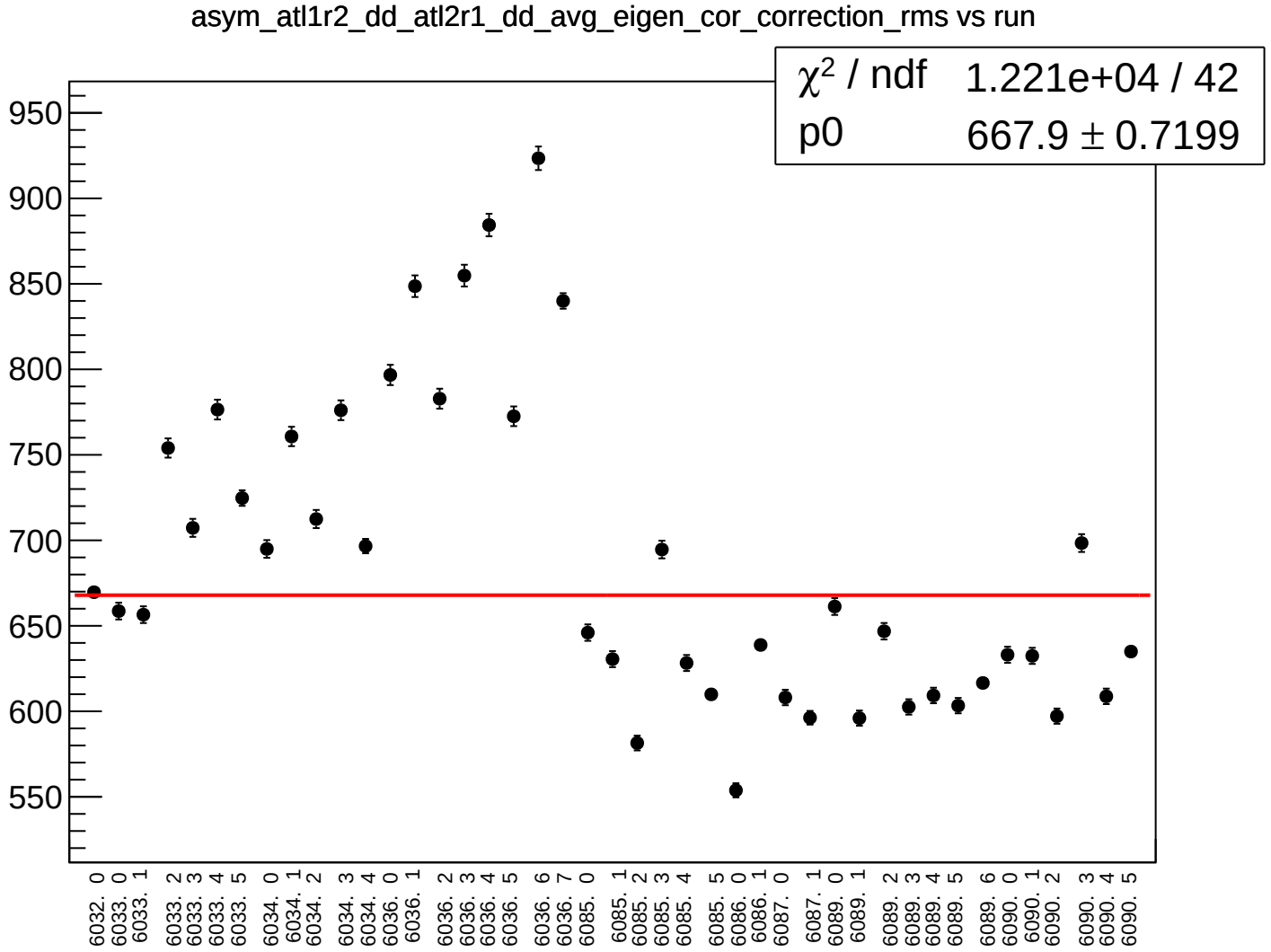

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 29.71 / 42
p0 1996 ± 1838
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 808.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

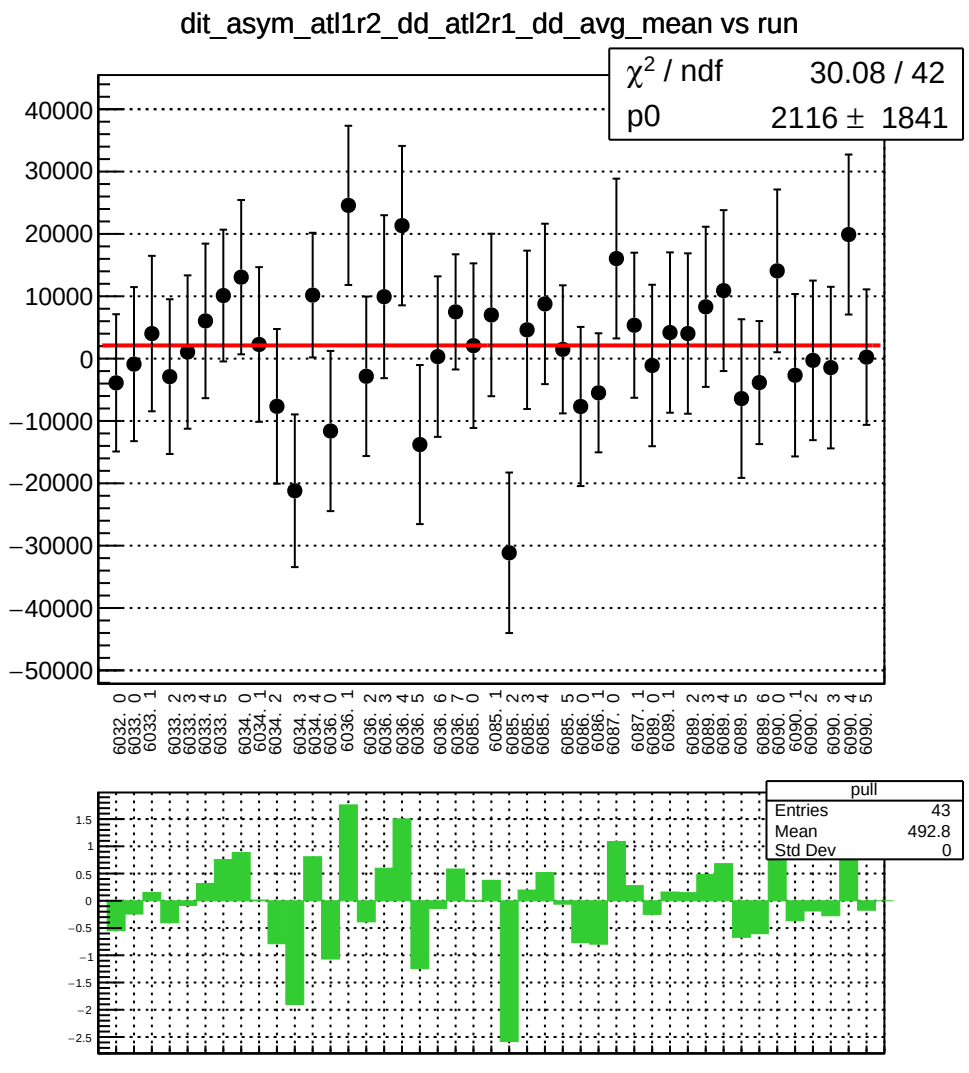

pull1D
Entries 43
Mean 0.0009616
Std Dev 0.8312
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

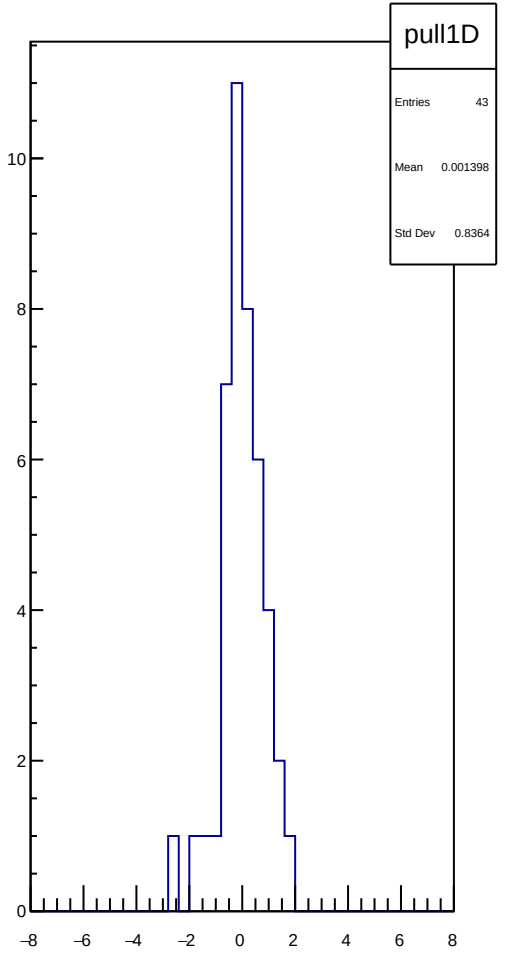

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1213 / 42
p0 1214 ± 1.3
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

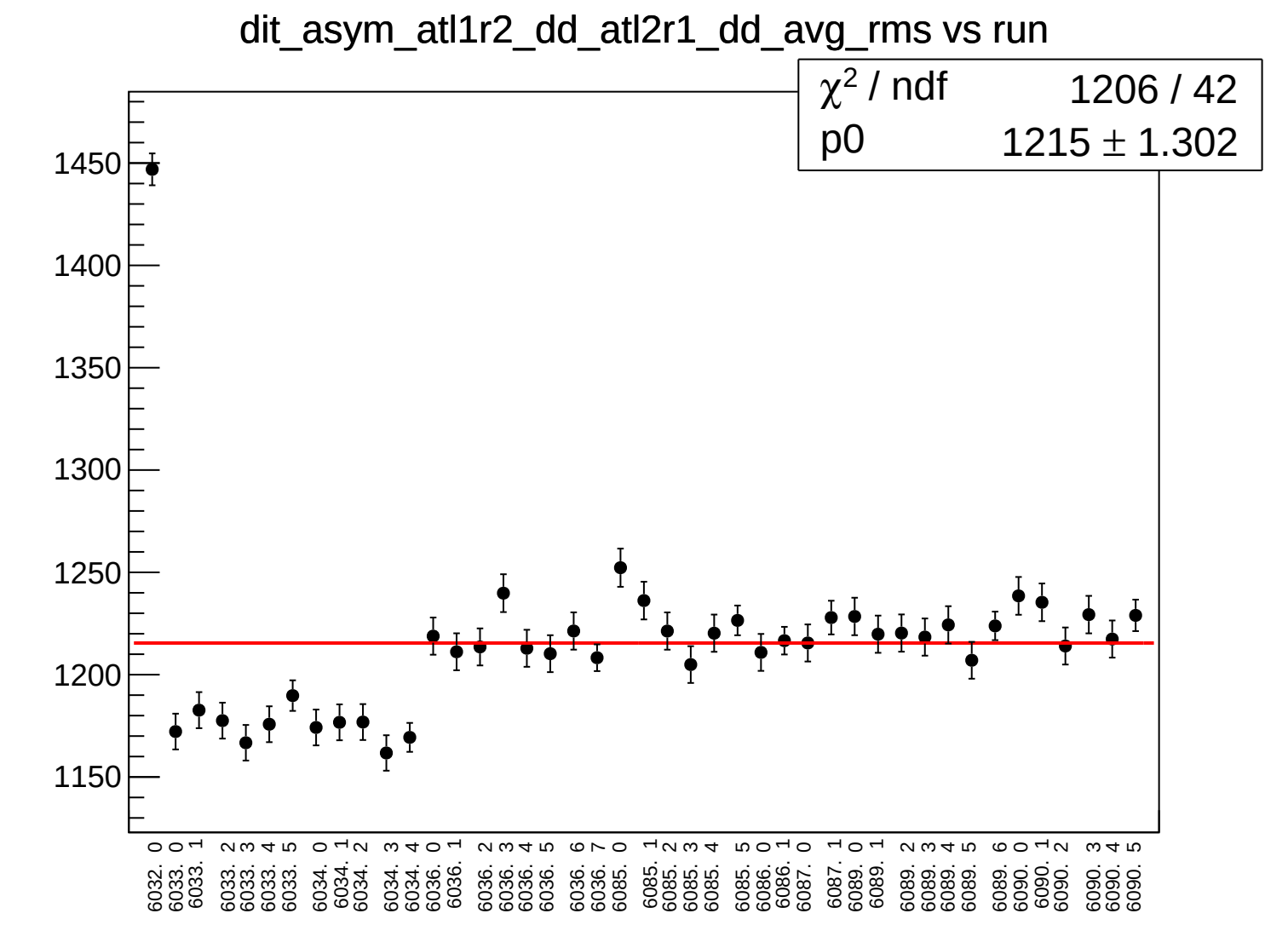

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.45 / 42
p0 −106.7 ± 1018
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.33
Std Dev 0
2
1
0
−1
−2

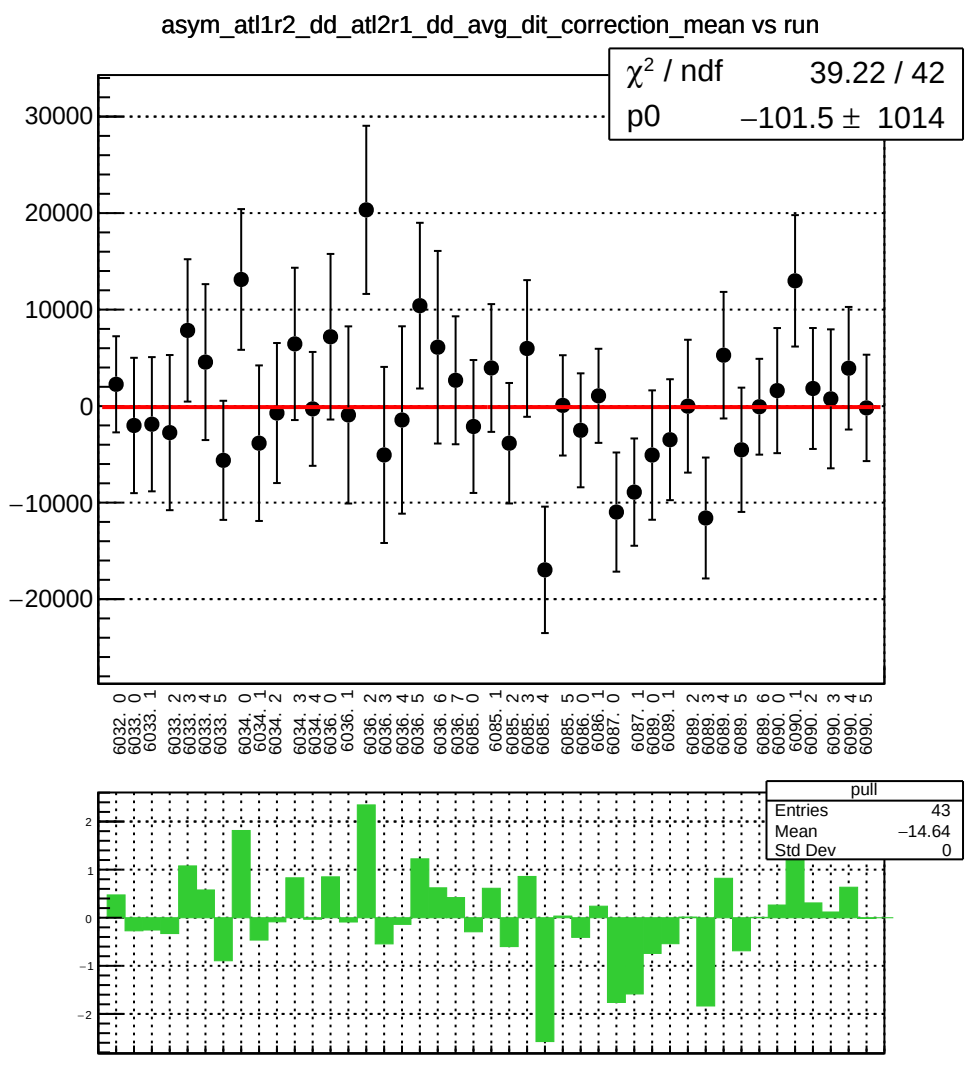

pull1D
Entries 43
Mean 0.03631
Std Dev 0.9692
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

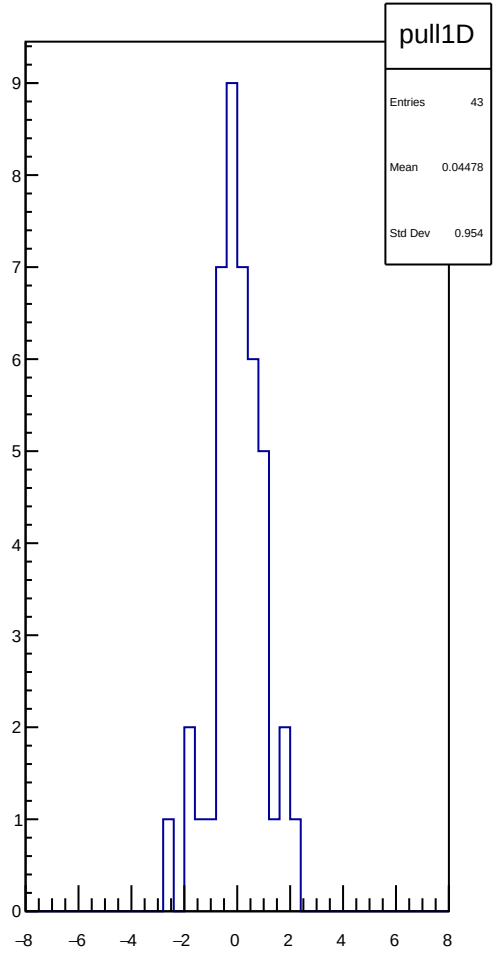

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.221e+04 / 42
p0 667.9 ± 0.7199
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

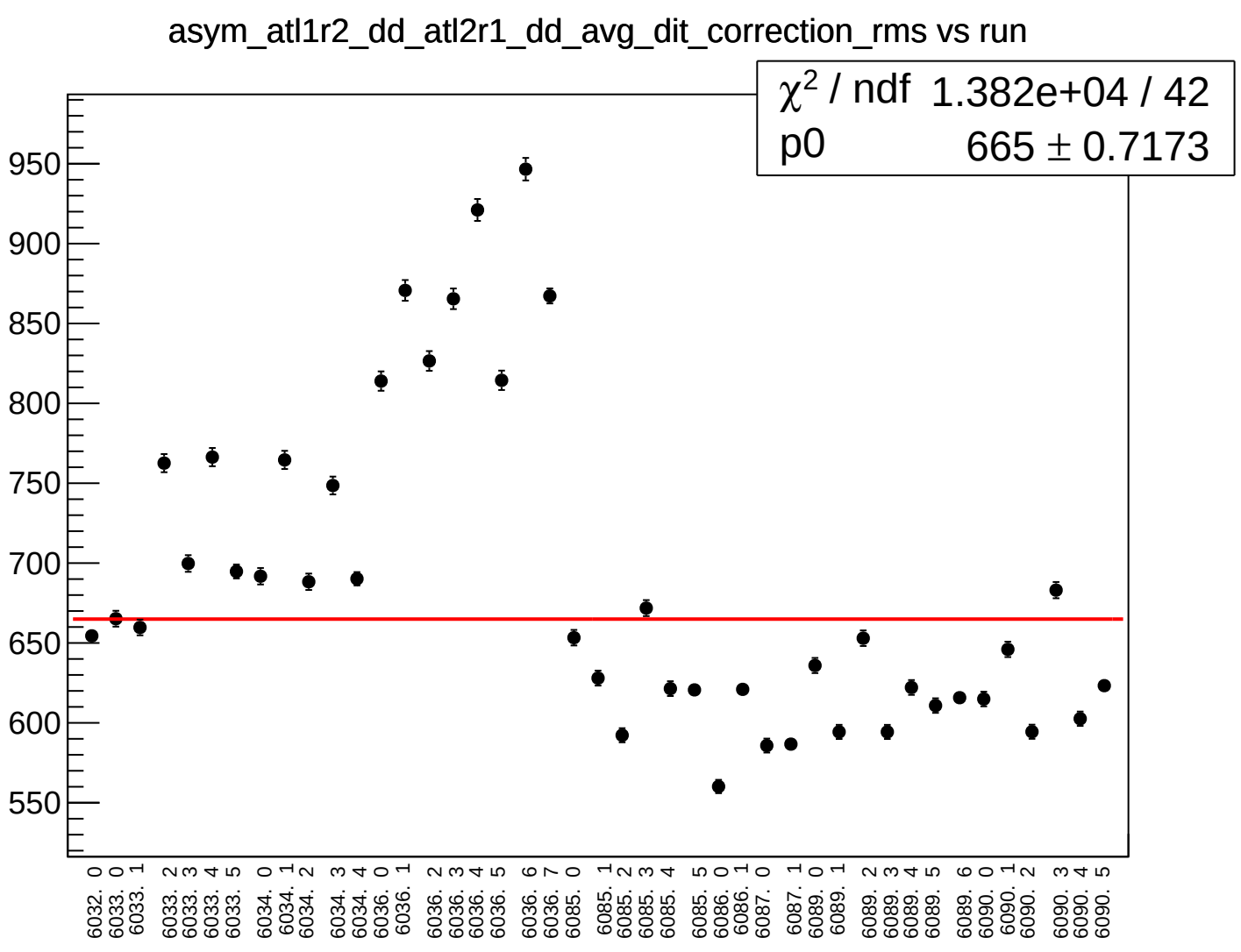

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 30.08 / 42
p0 2116 ± 1841
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 492.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

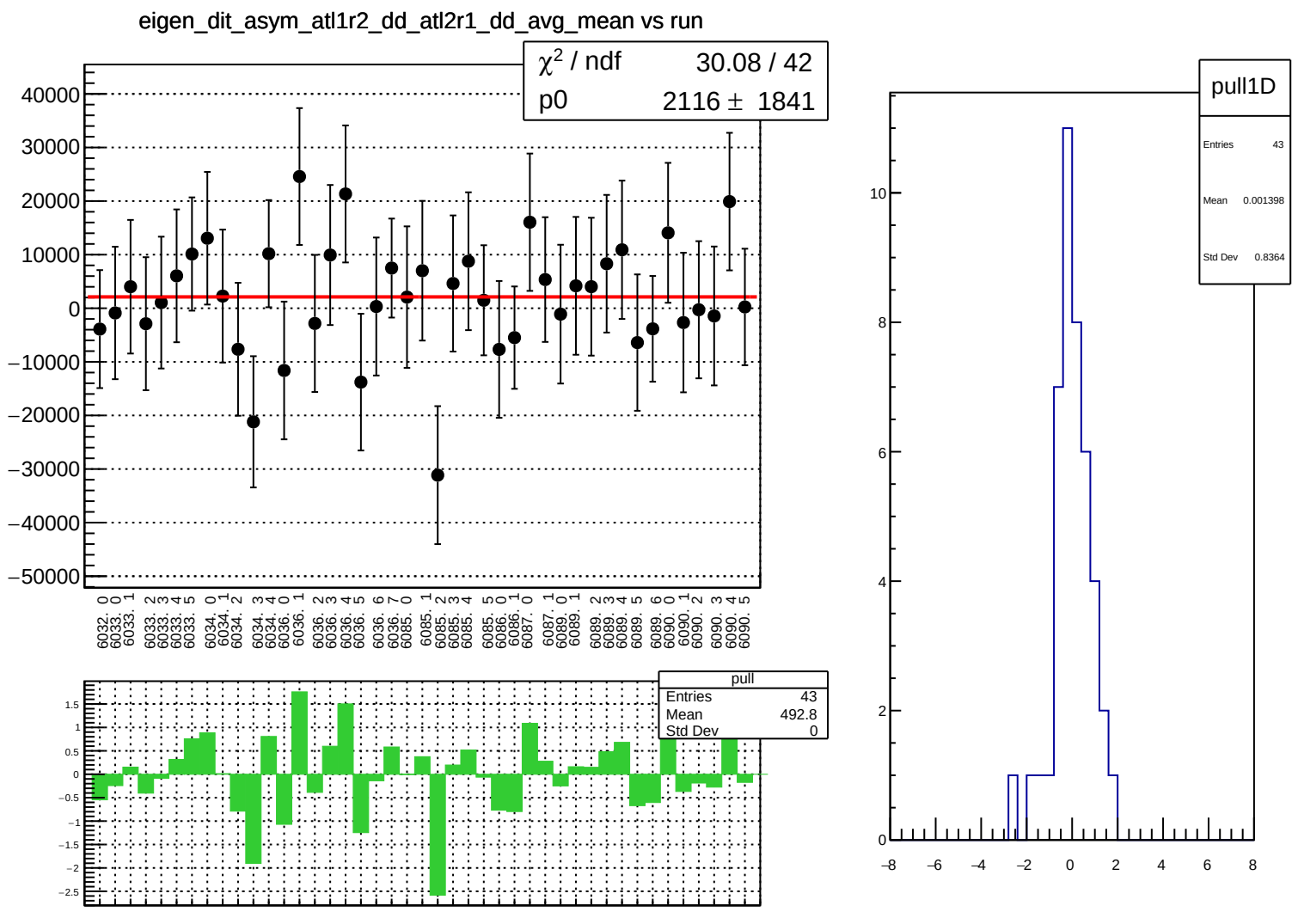

pull1D
Entries 43
Mean 0.001398
Std Dev 0.8364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

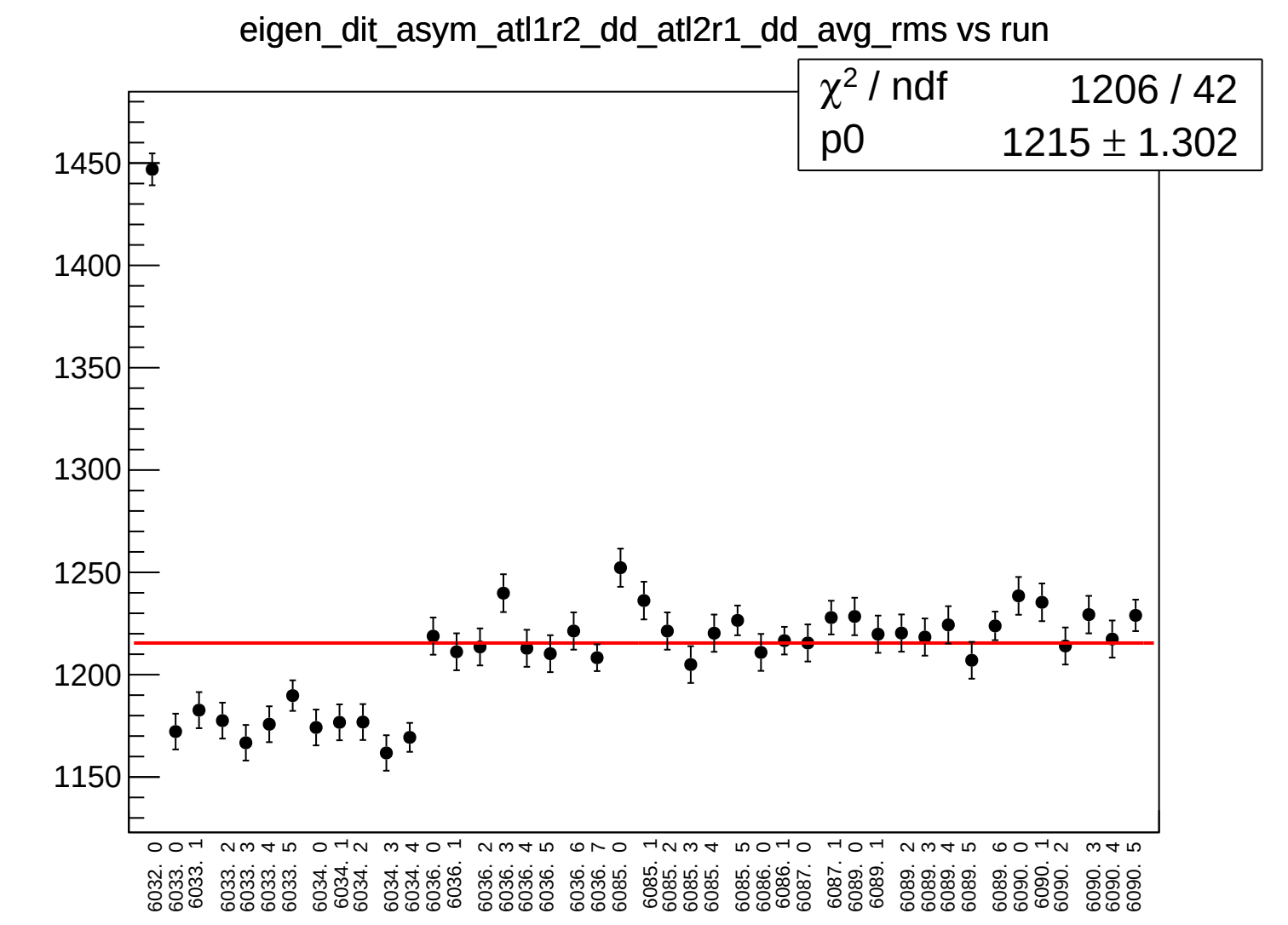

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1206 / 42
p0 1215 ± 1.302
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

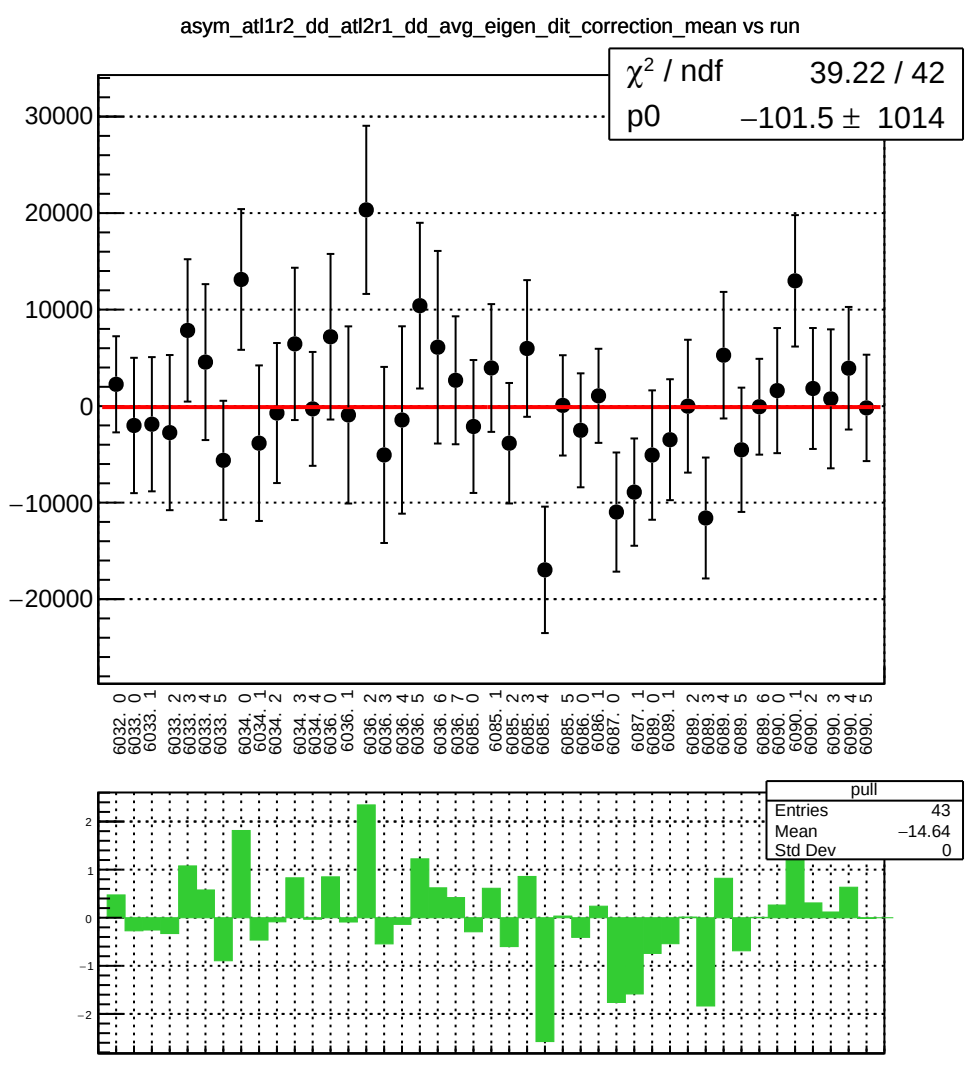

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 39.22 / 42
p0 −101.5 ± 1014
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.64
Std Dev 0
2
1
0
−1
−2

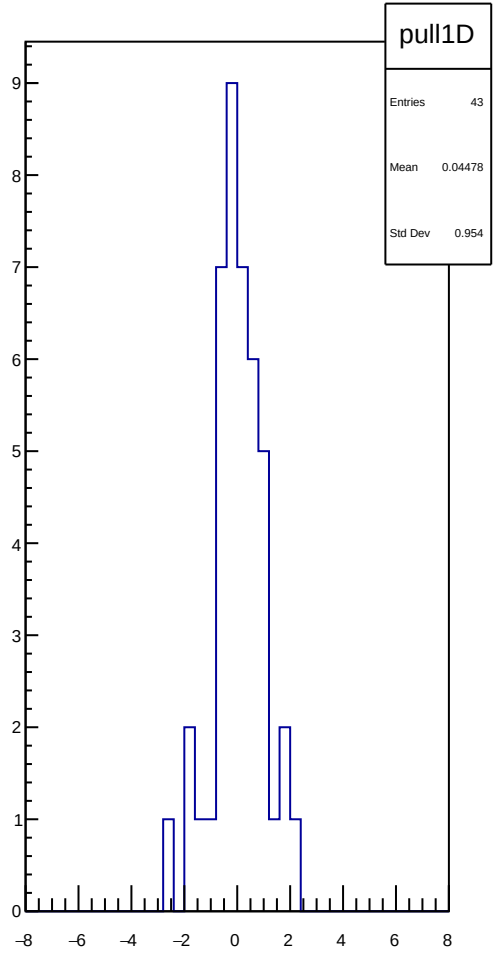

pull1D
Entries 43
Mean 0.04478
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

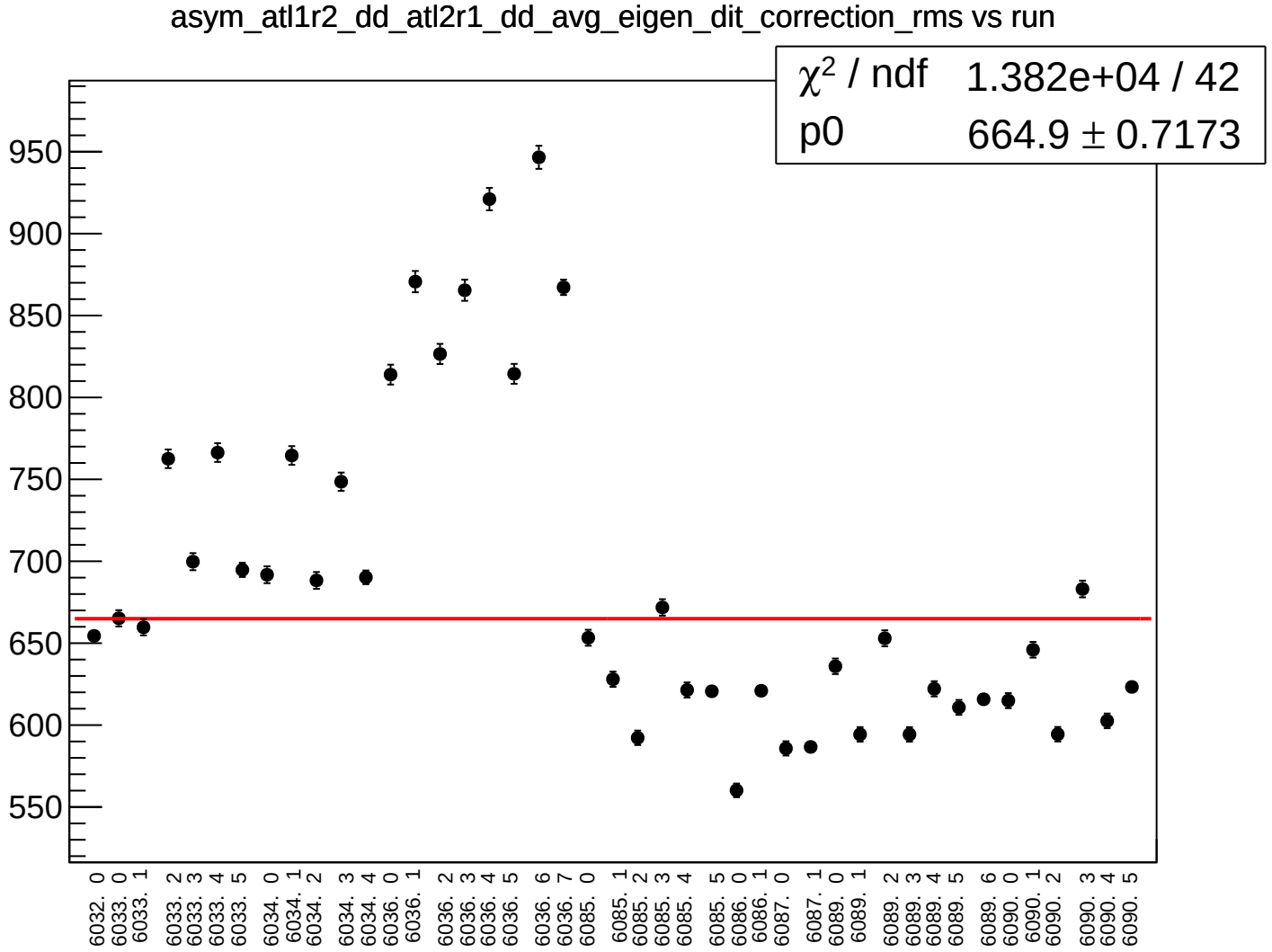

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.382e+04 / 42
p0 665 ± 0.7173
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 30.08 / 42
p0 2116 ± 1841
pull
Entries 43
Mean 492.8
Std Dev 0
pull1D
Entries 43
Mean 0.001398
Std Dev 0.8364


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1206 / 42
p0 1215 ± 1.302
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.22 / 42
p0 −101.5 ± 1014
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.64
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.04478
Std Dev 0.954
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.382e+04 / 42
p0 664.9 ± 0.7173
950
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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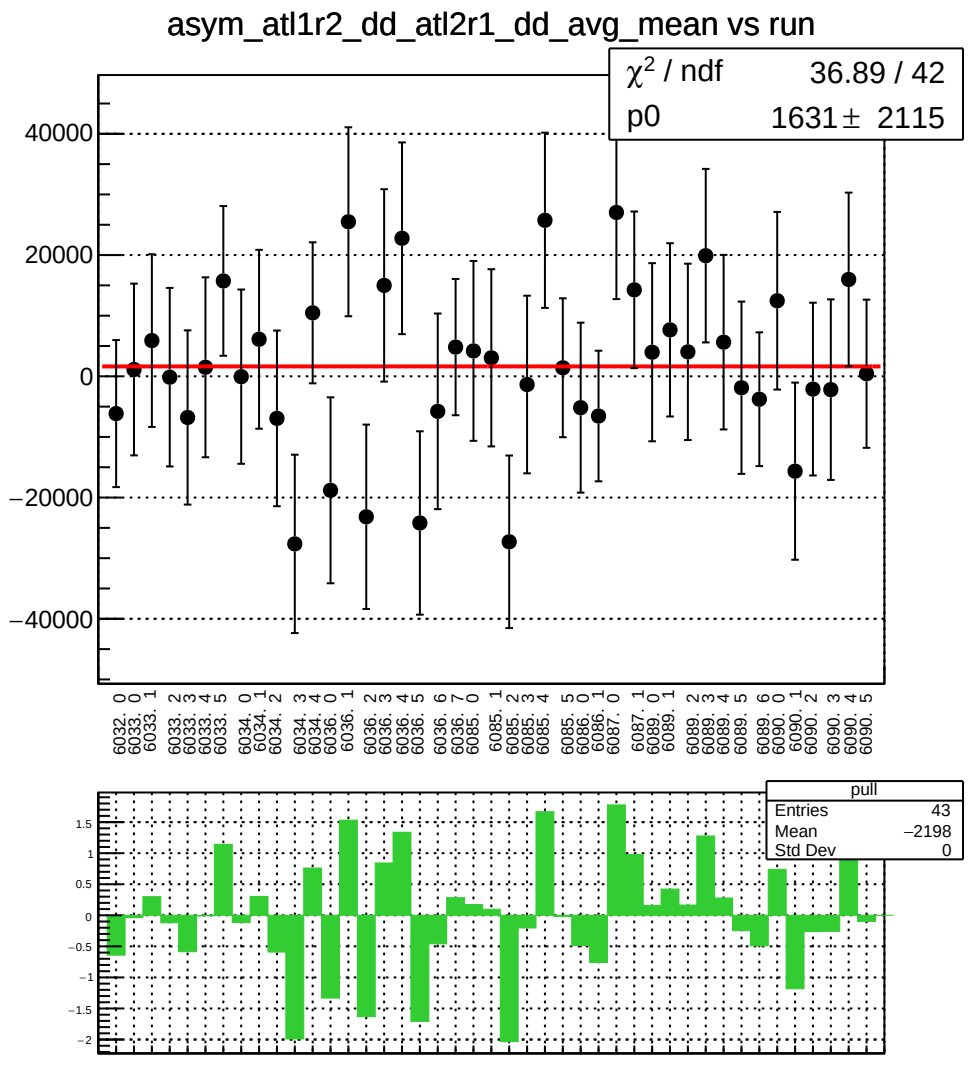
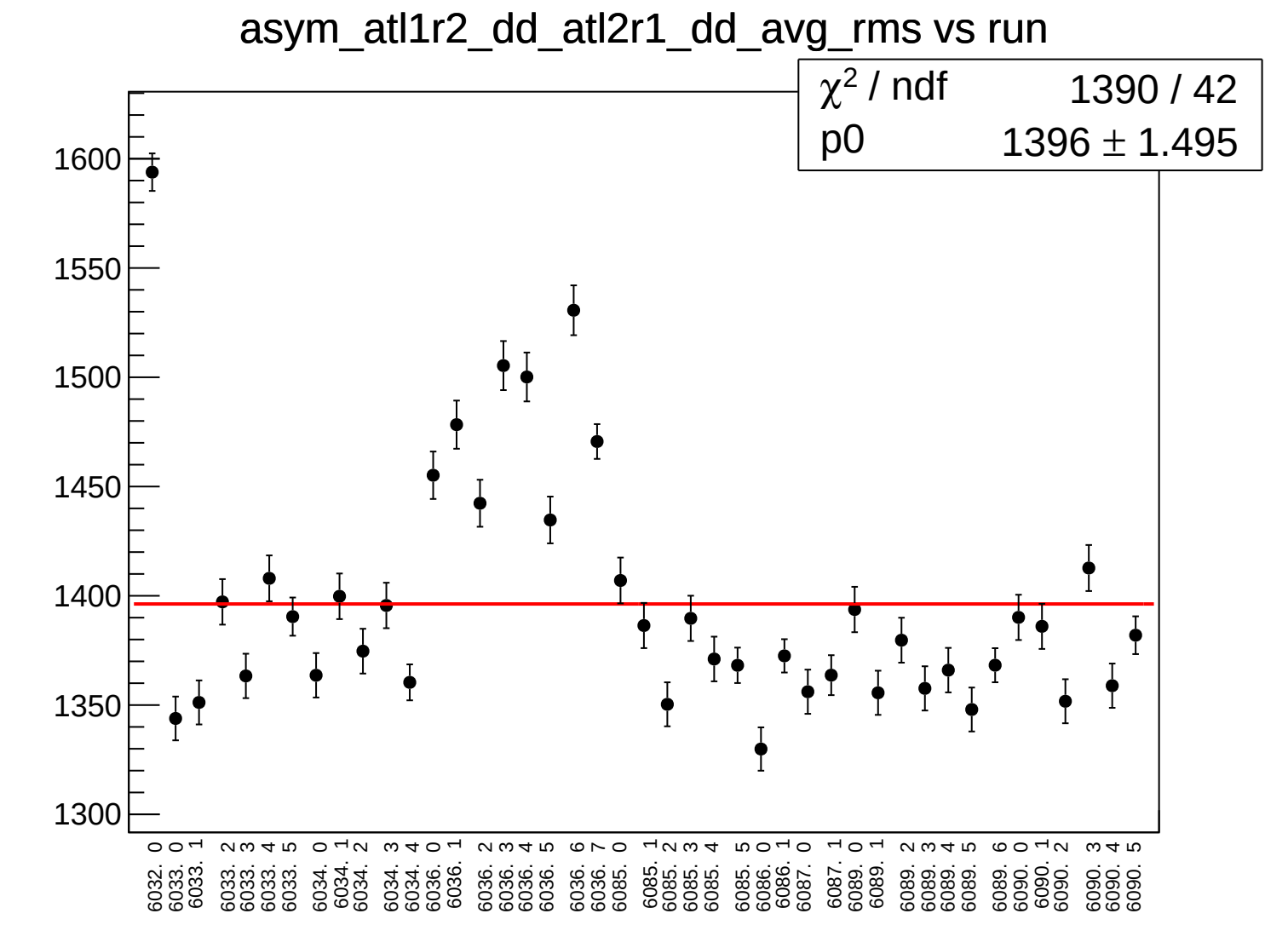
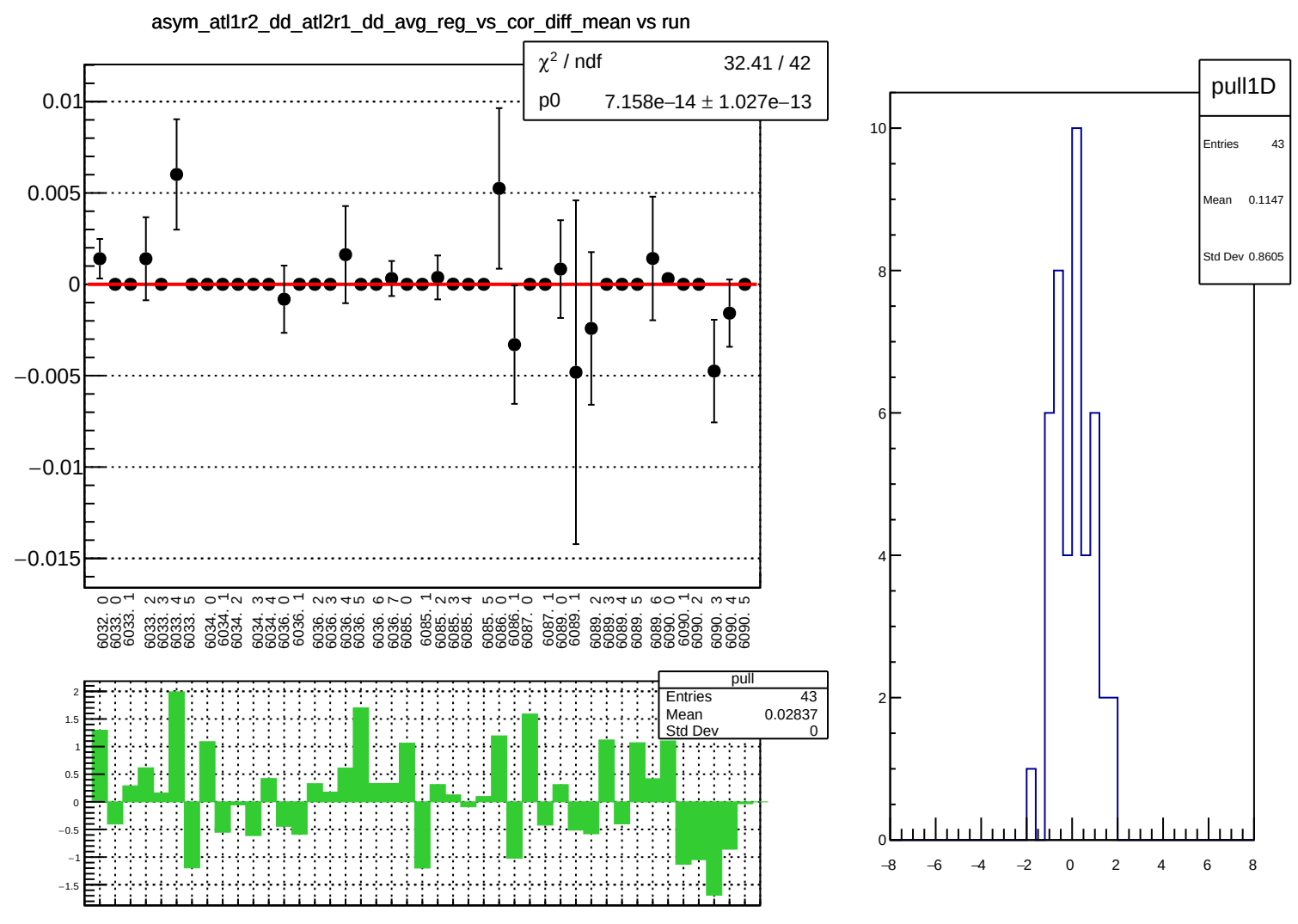
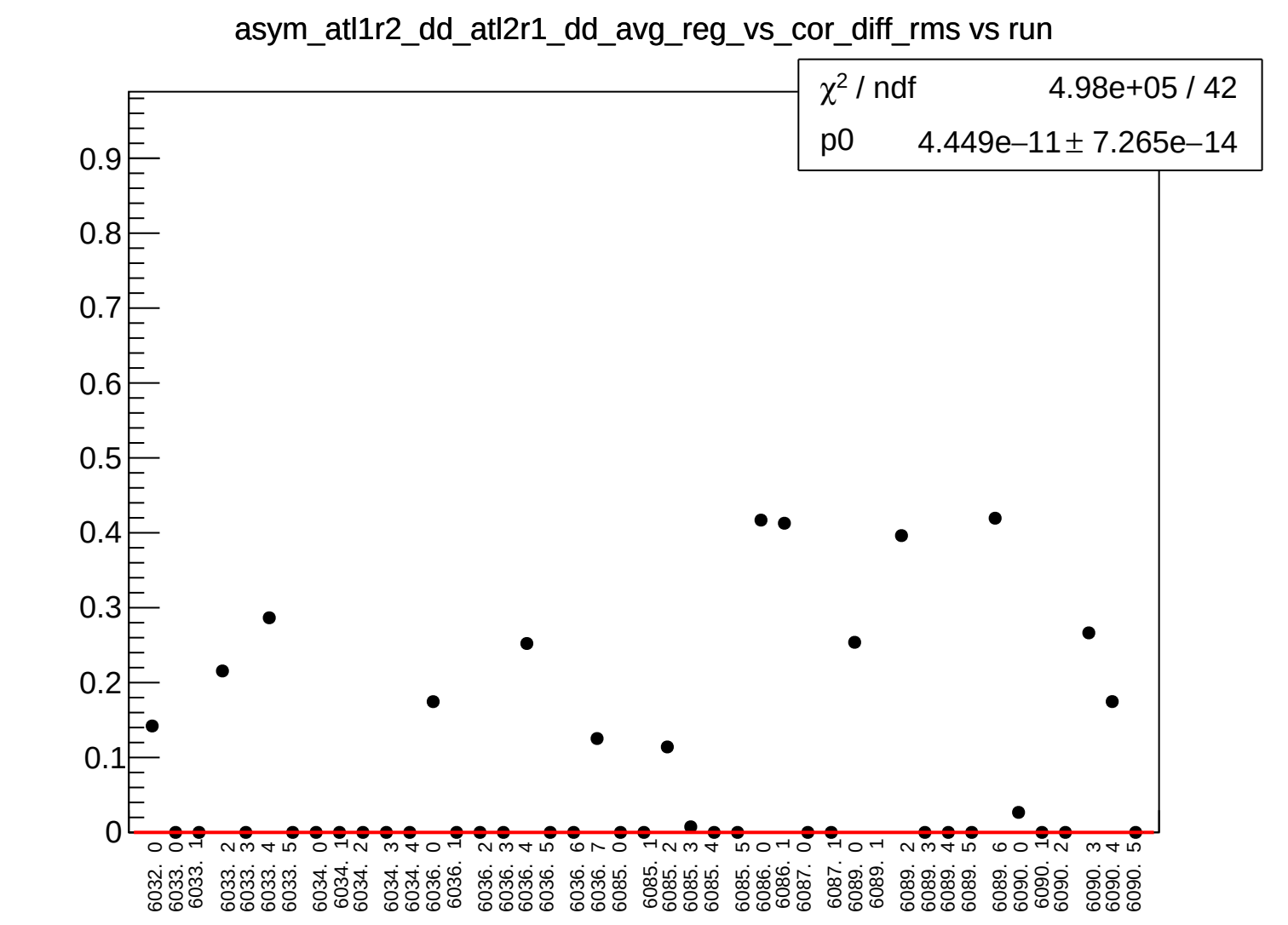
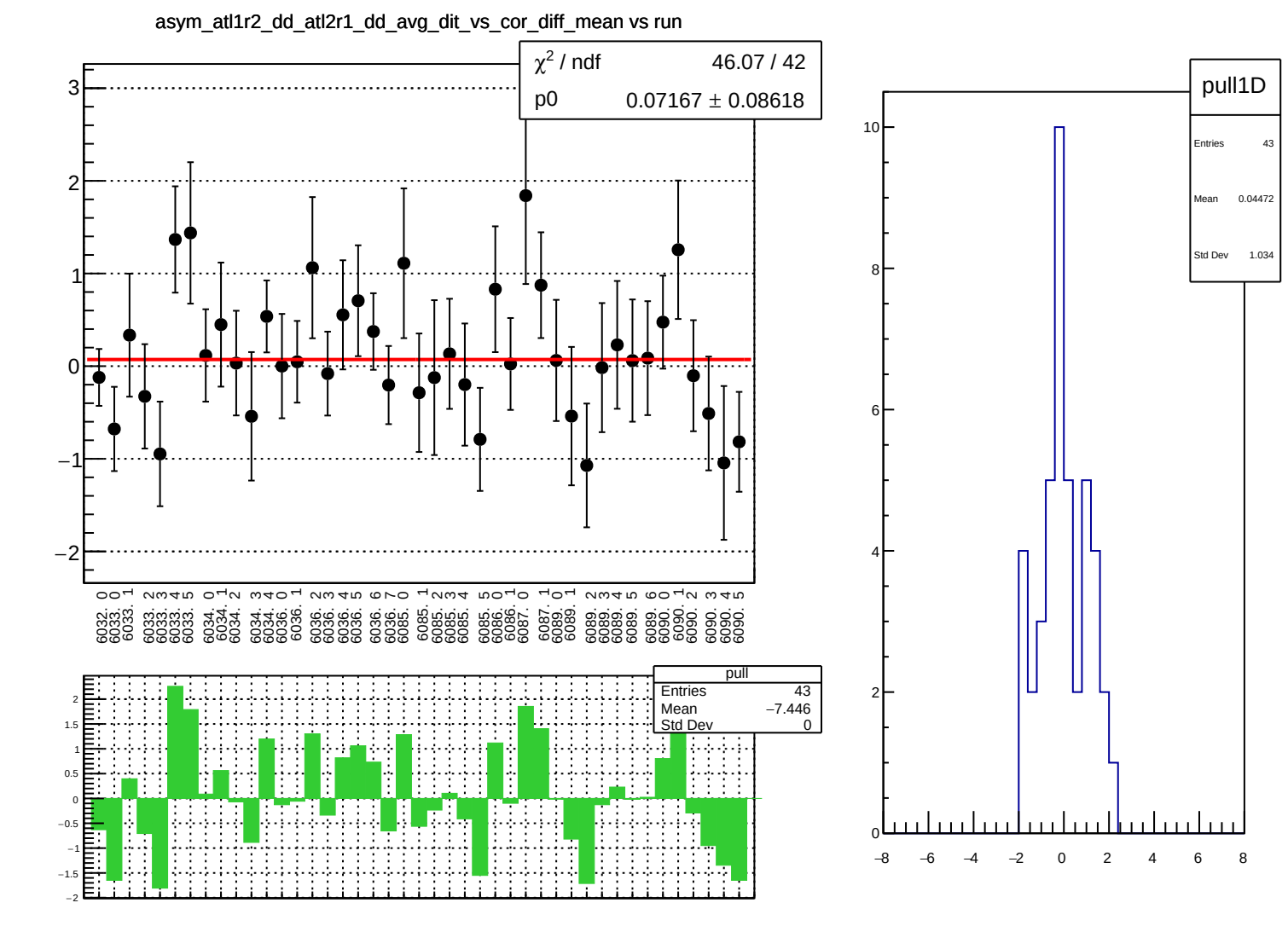
6090. 5

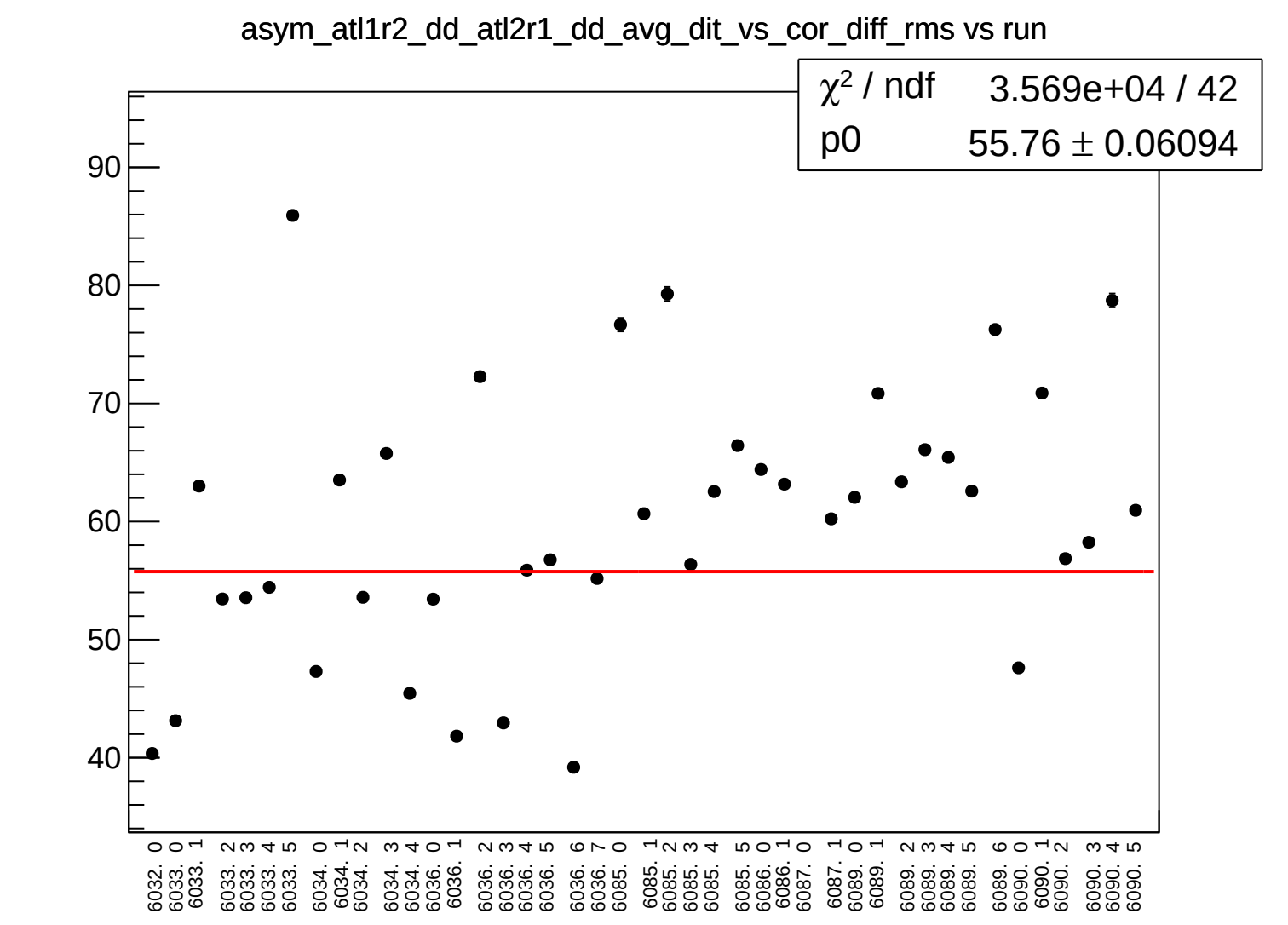

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 36.89 / 42
p0 1631 ± 2115
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2198
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0006397
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

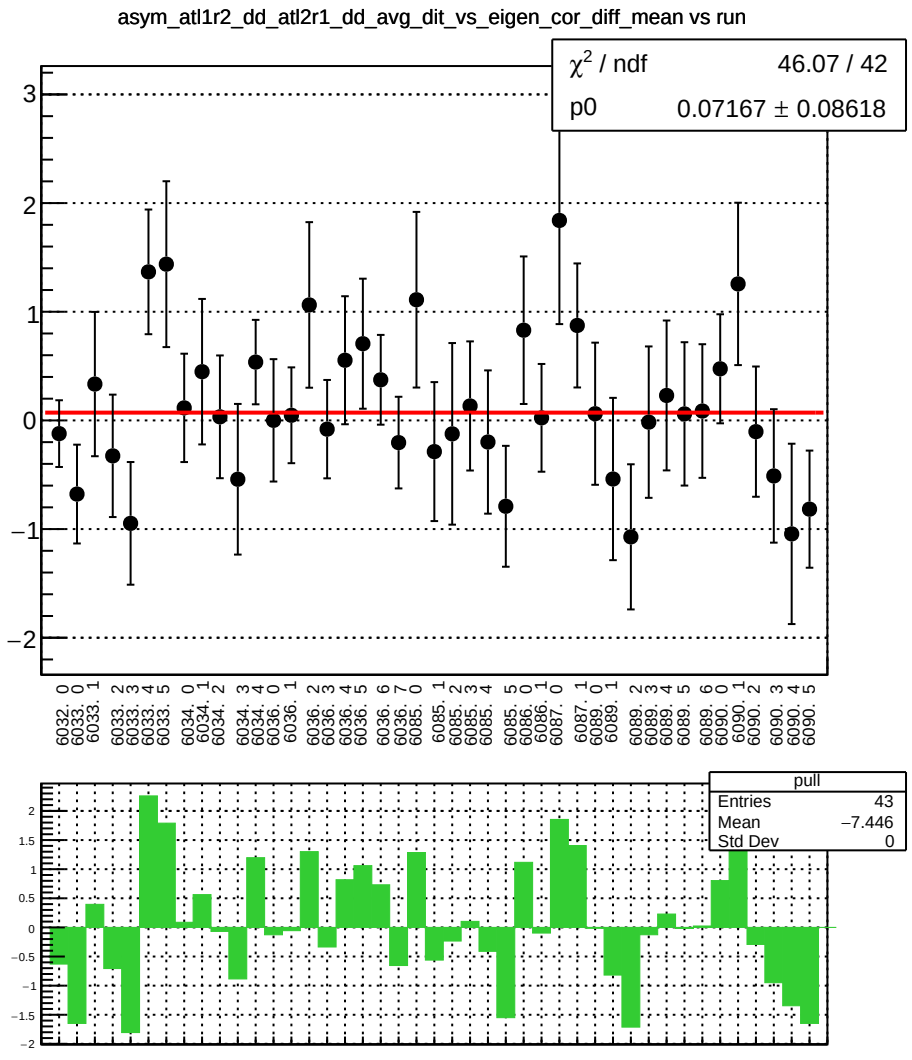

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1390 / 42
p0 1396 ± 1.495
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

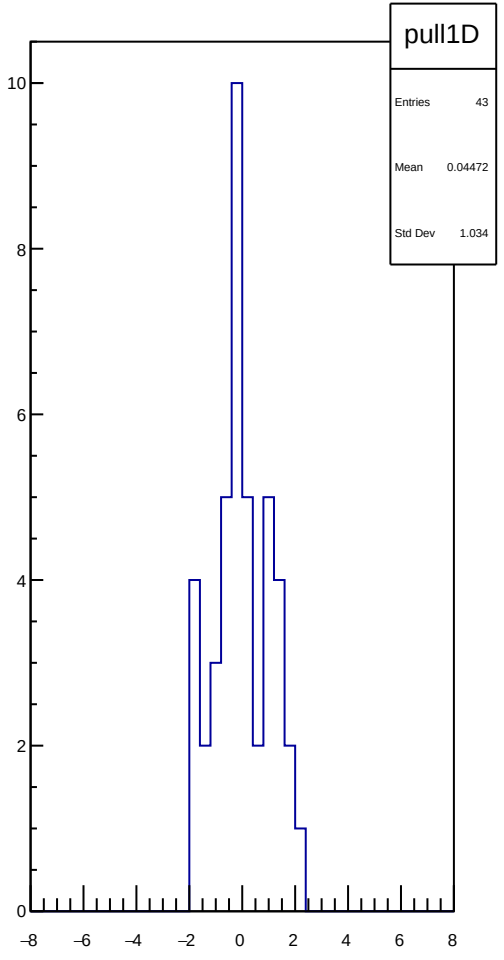

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.41 / 42
p0 7.158e−14 ± 1.027e−13
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.02837
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1147
Std Dev 0.8605
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

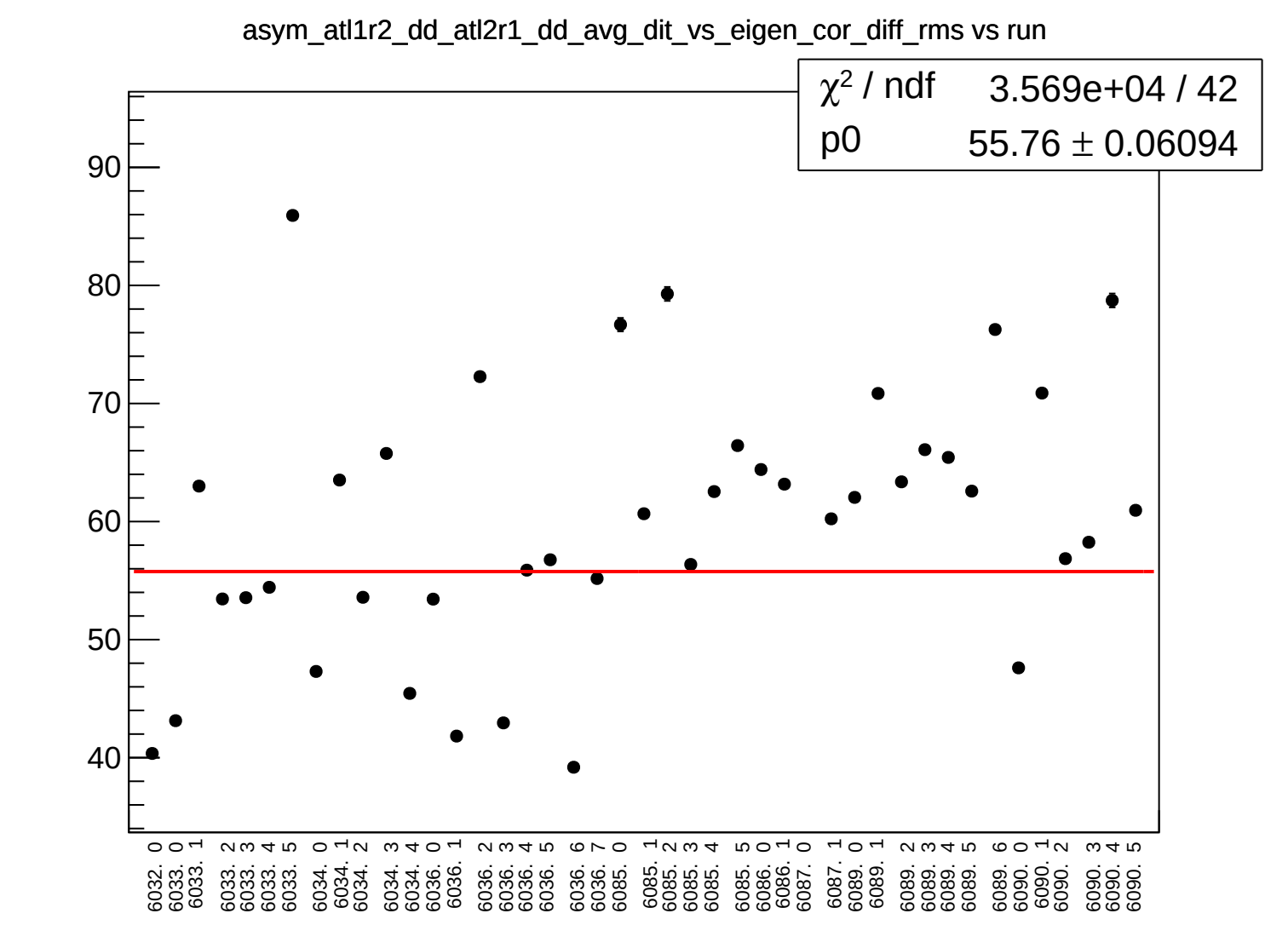

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.98e+05 / 42
p0 4.449e−11 ± 7.265e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

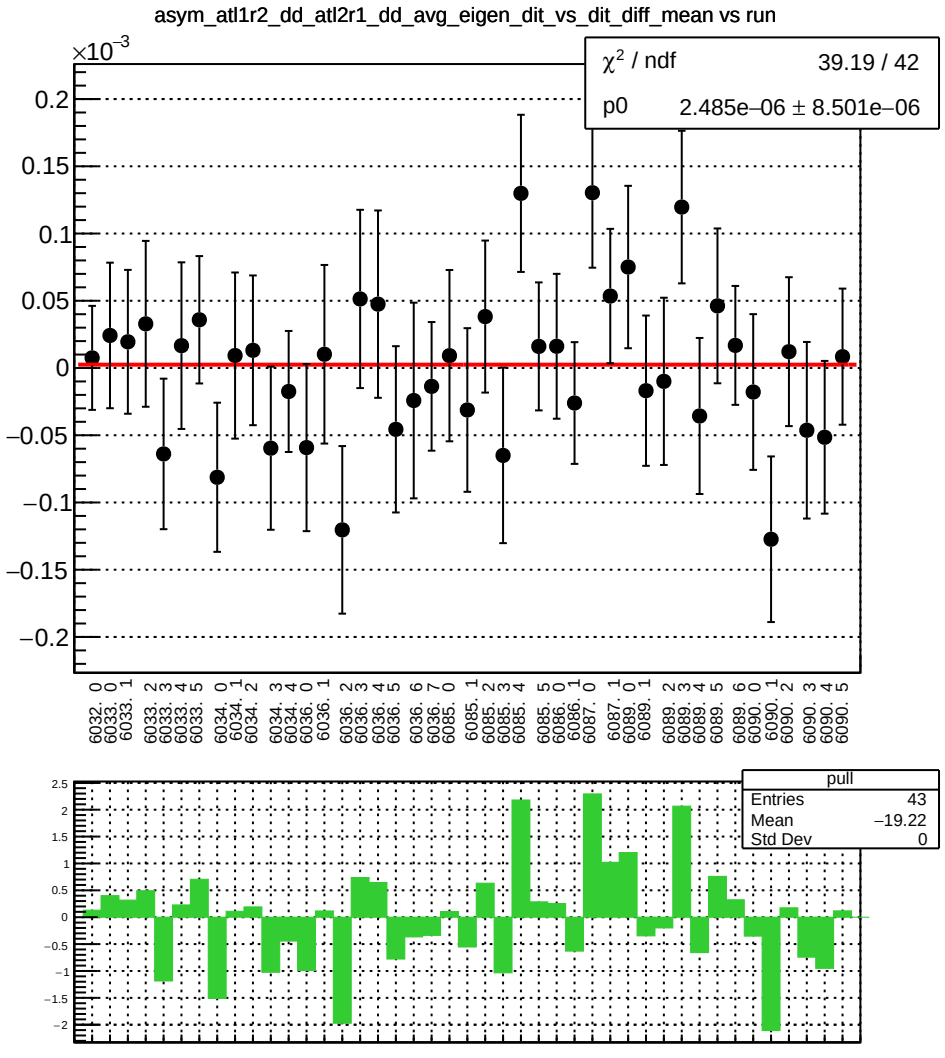

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0
pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

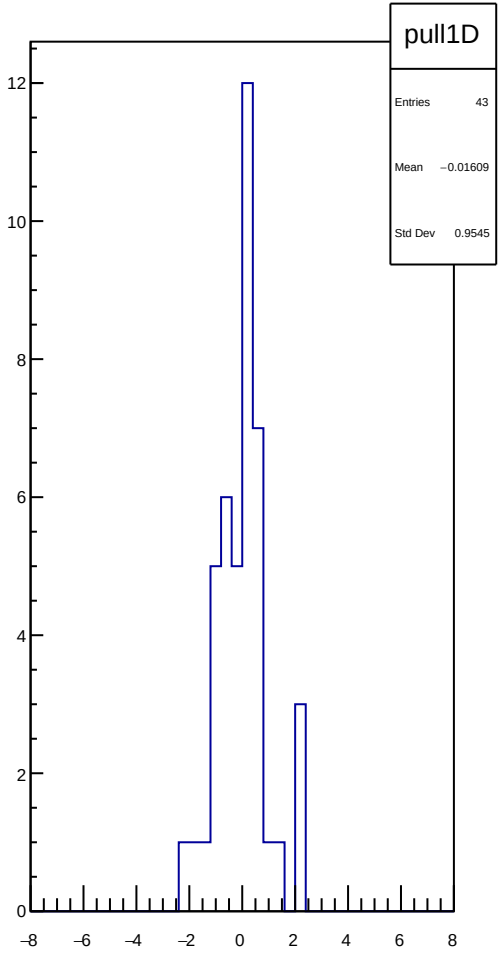

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

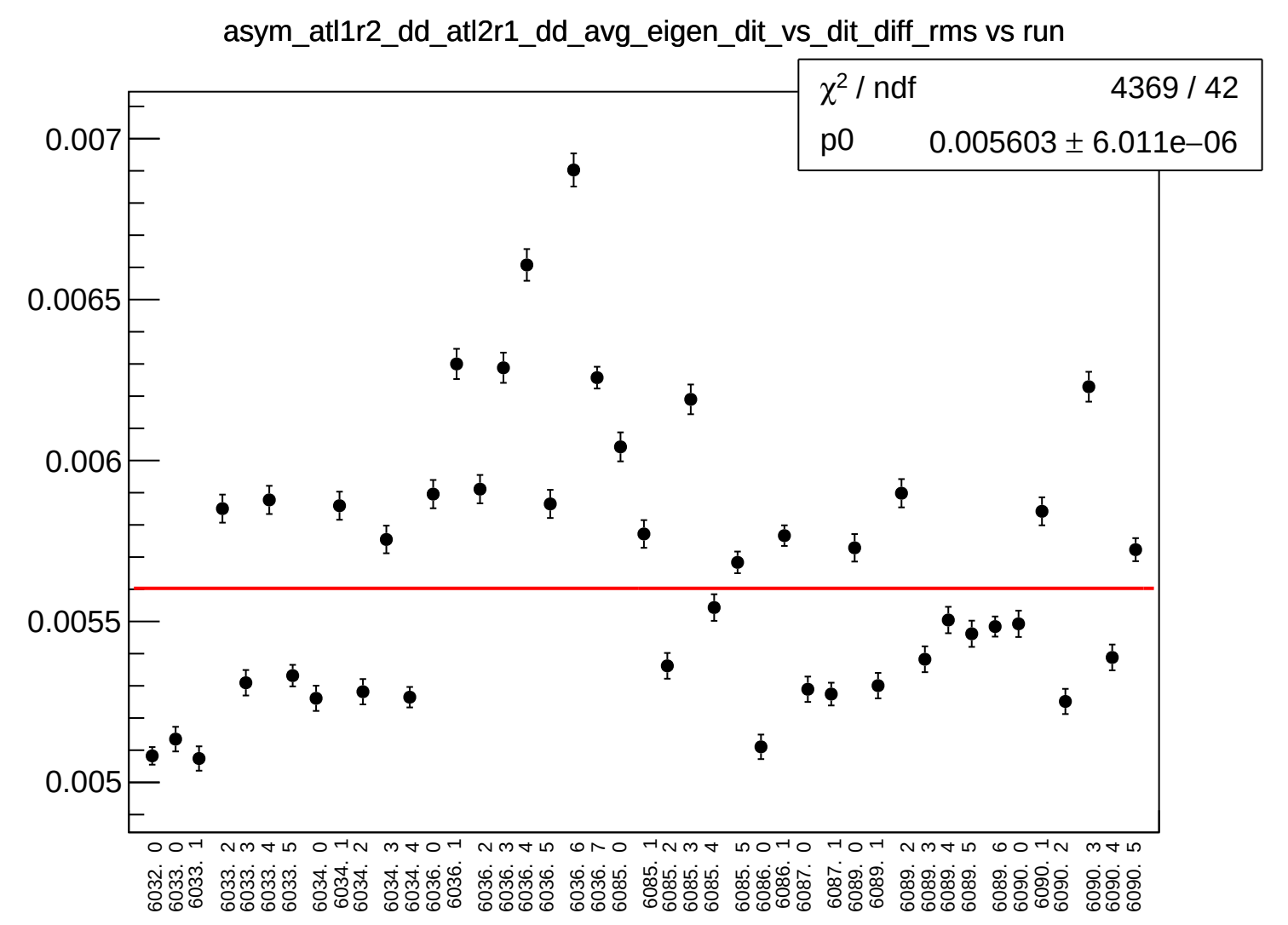

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0

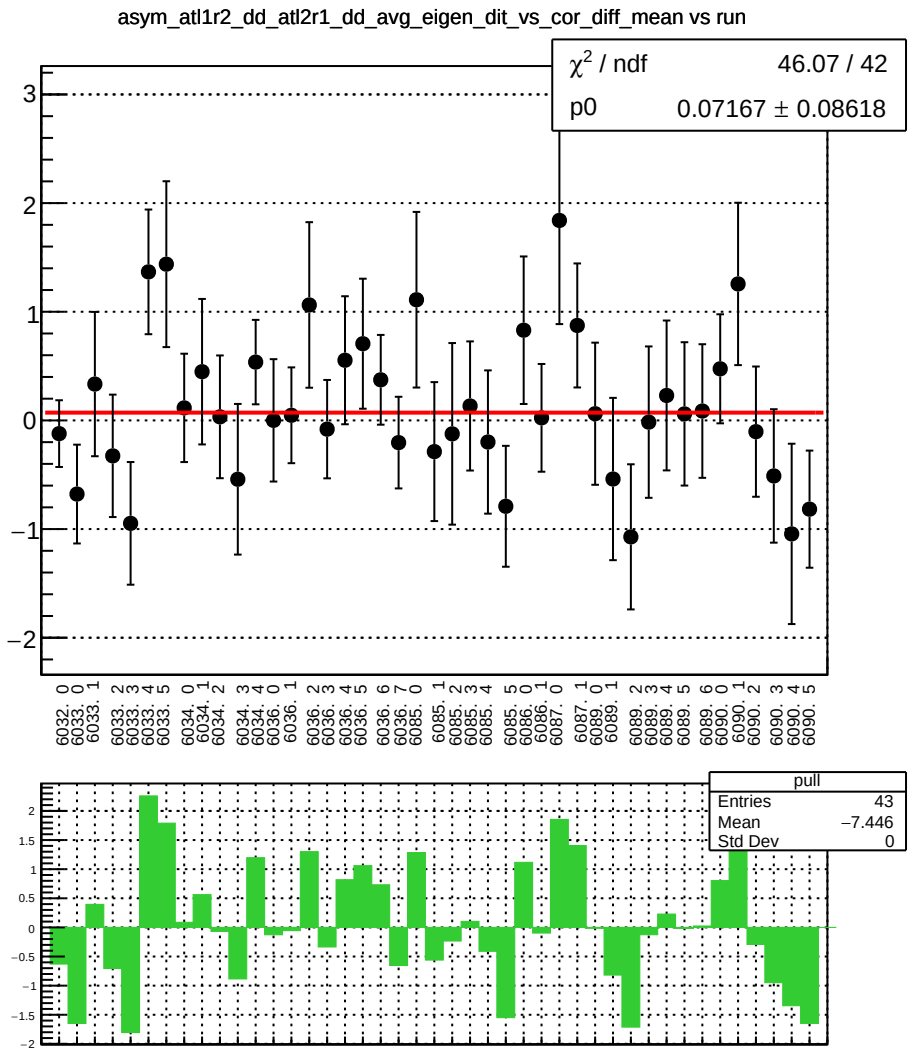

pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

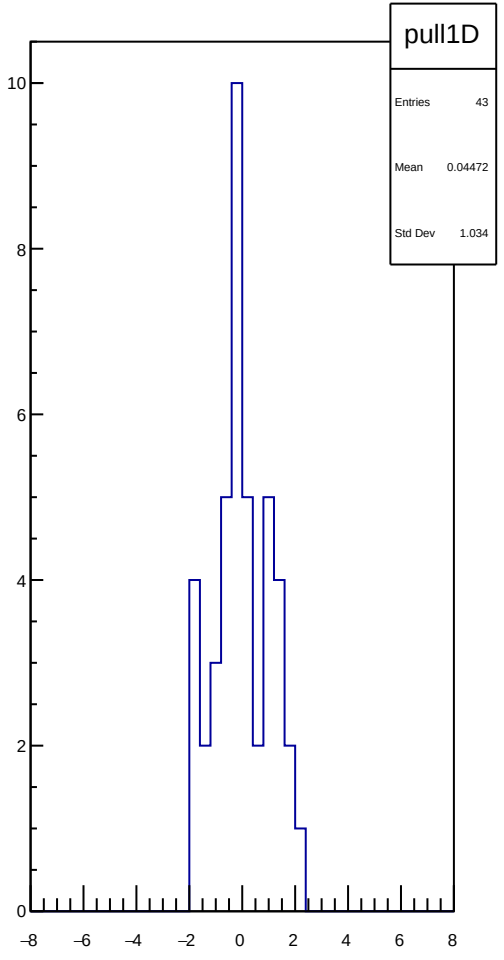

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

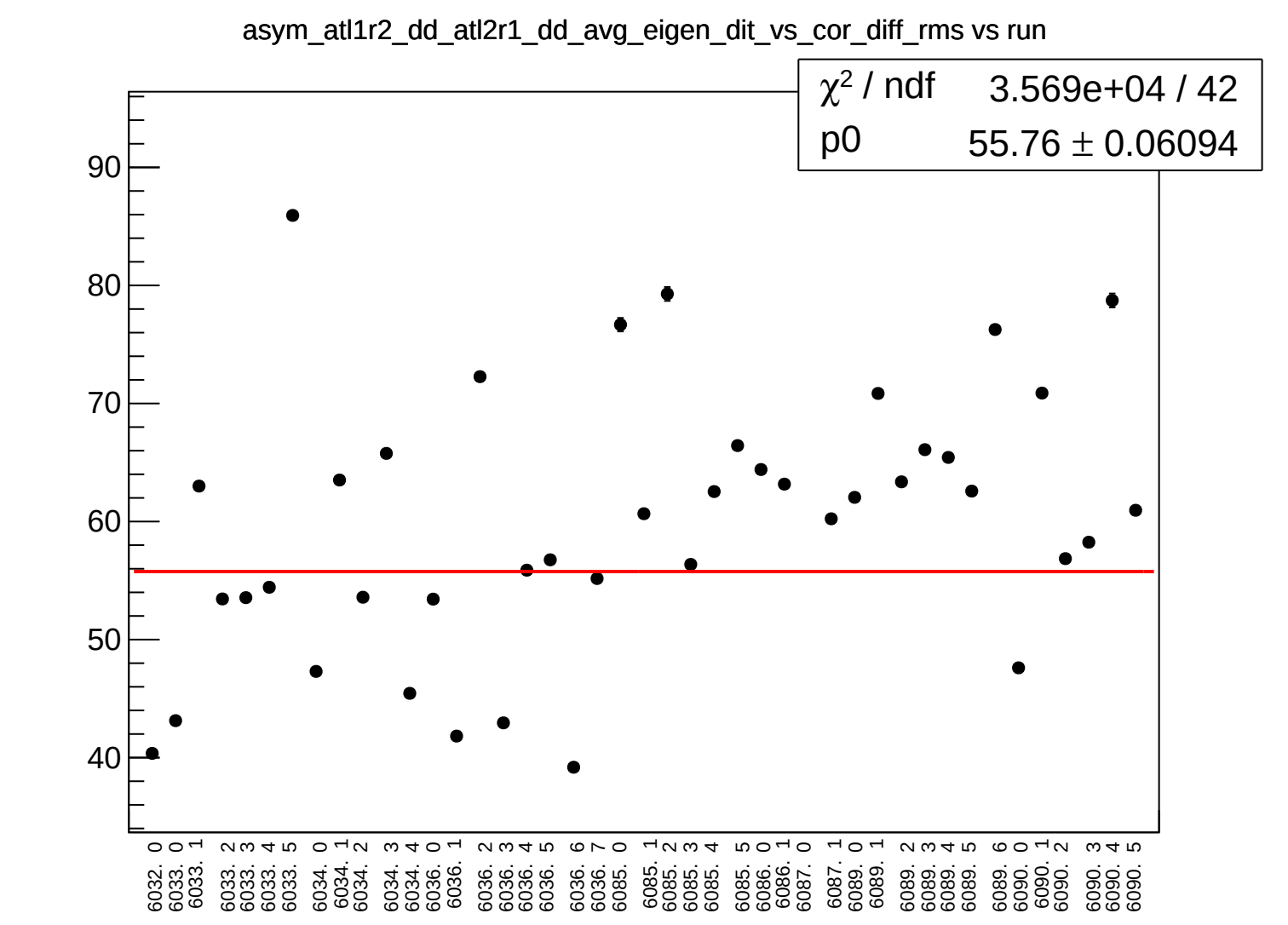

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.19 / 42
p0 2.485e−06 ± 8.501e−06
pull
Entries 43
Mean −19.22
Std Dev 0

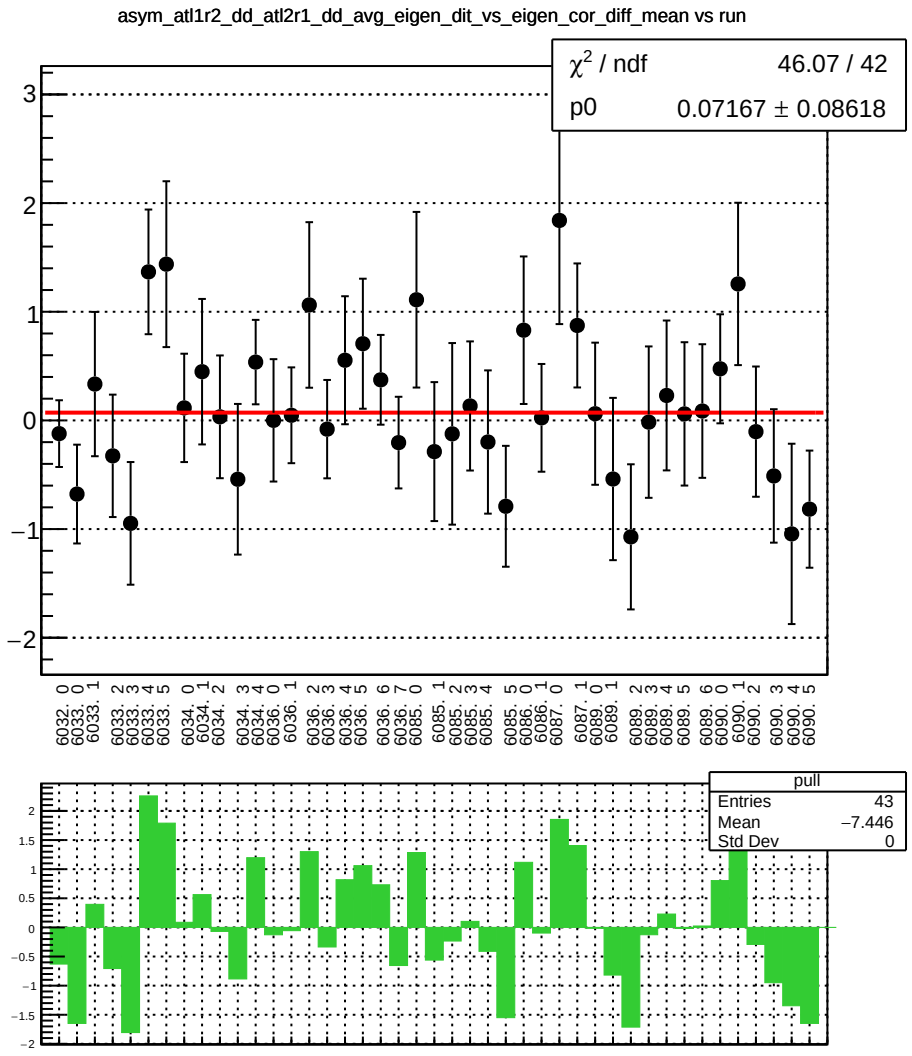

pull1D
Entries 43
Mean −0.01609
Std Dev 0.9545

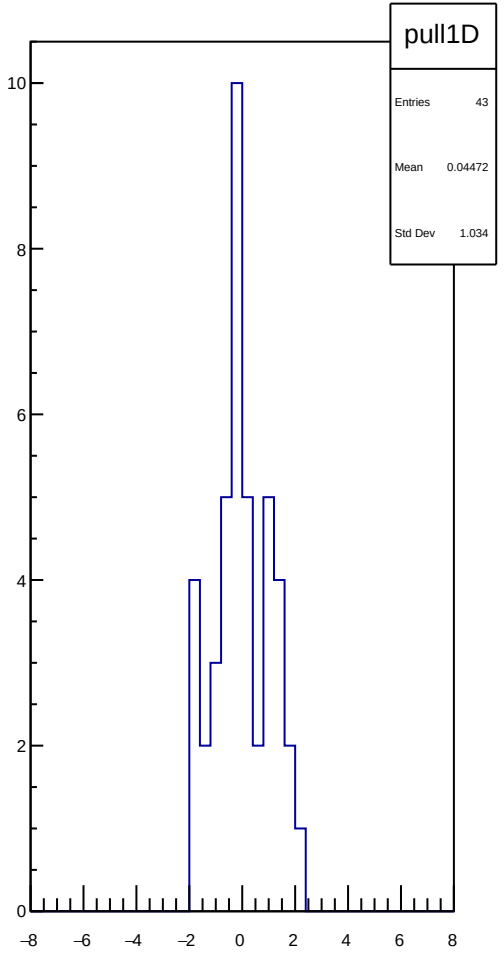

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4369 / 42
p0 0.005603 ± 6.011e−06
0.007
0.0065
0.006
0.0055
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

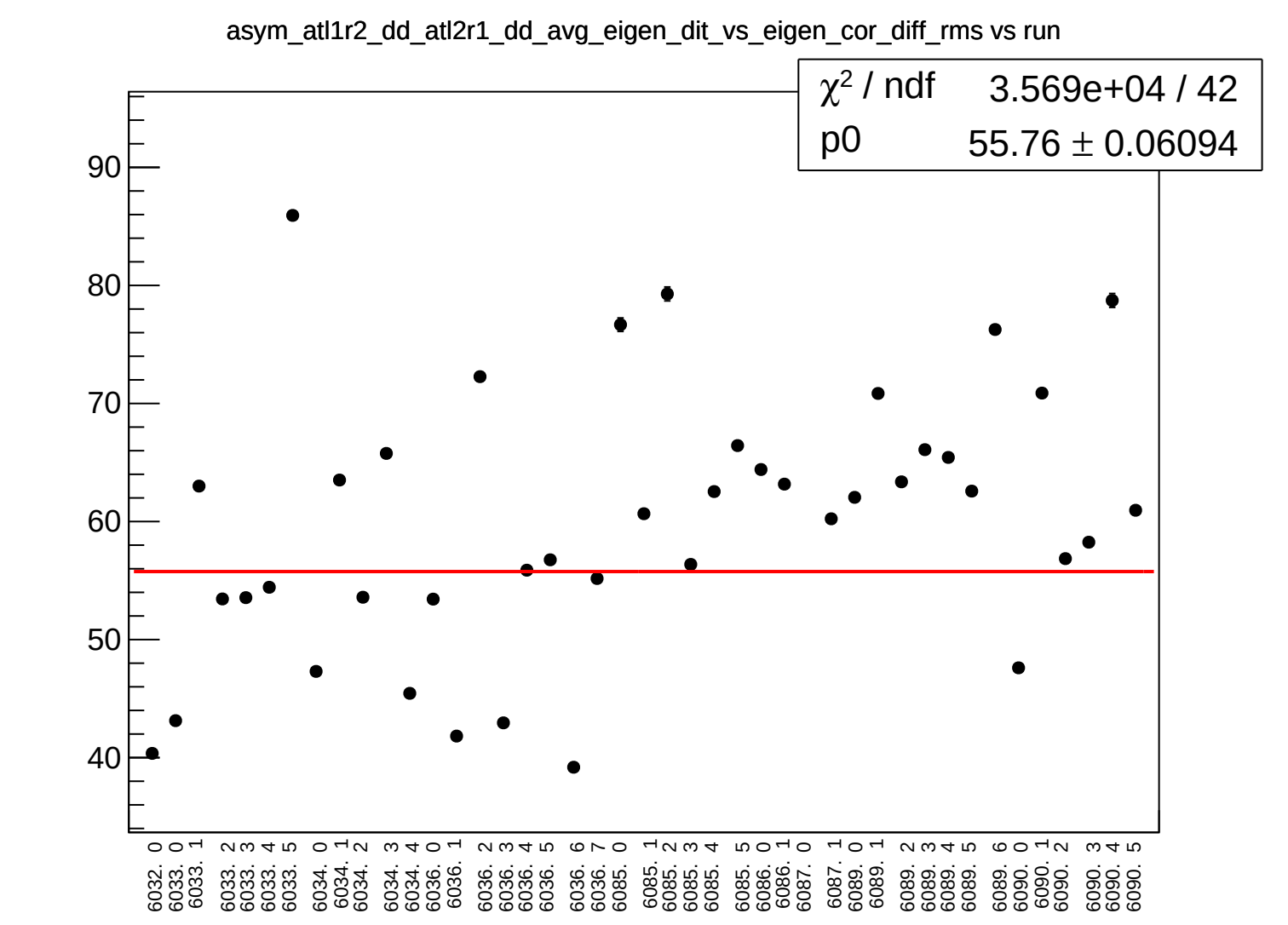

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0

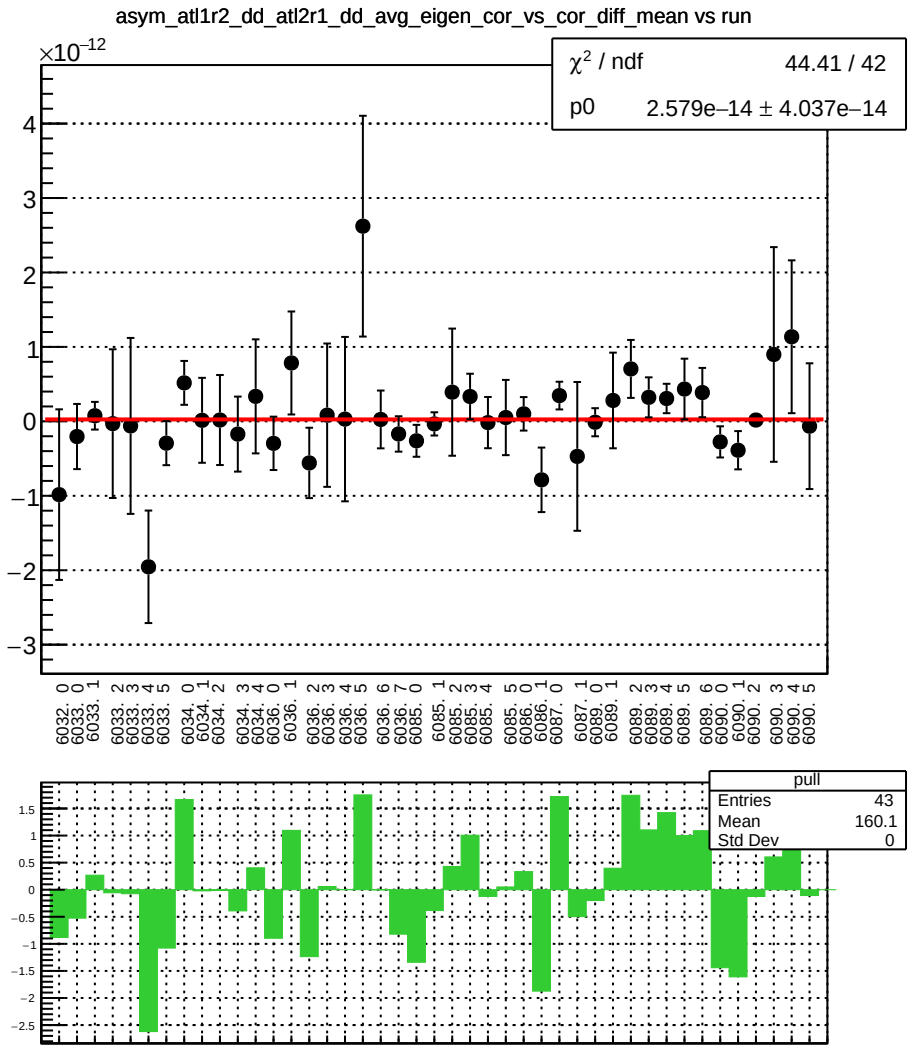

pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

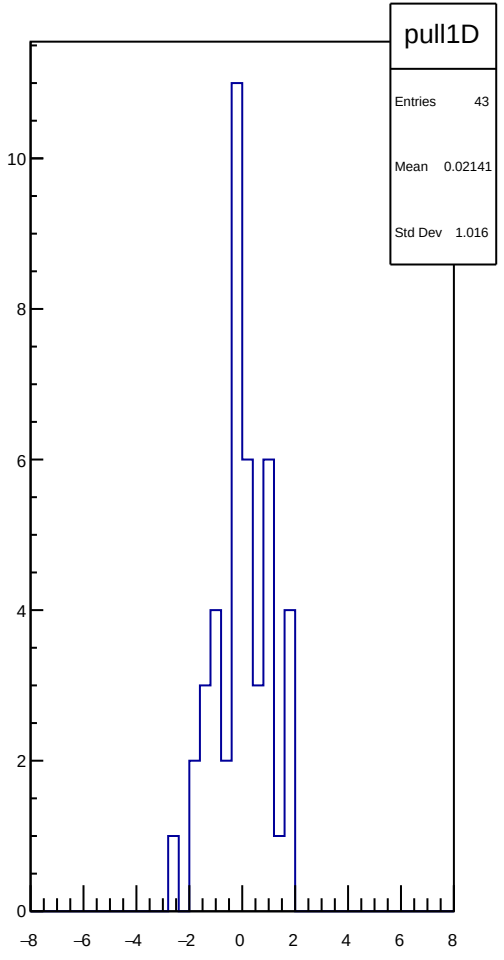

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

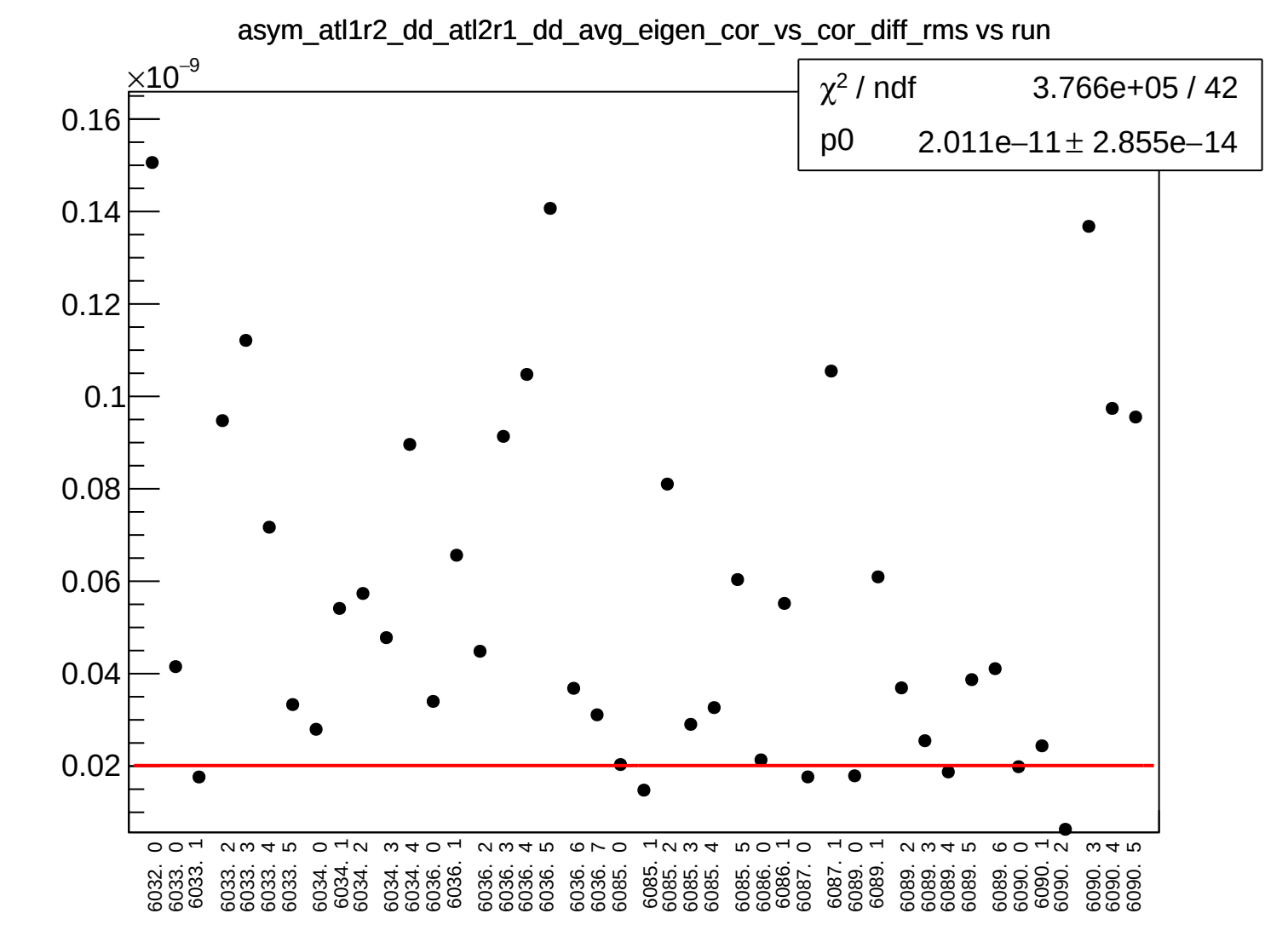

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.07 / 42
p0 0.07167 ± 0.08618
pull
Entries 43
Mean −7.446
Std Dev 0

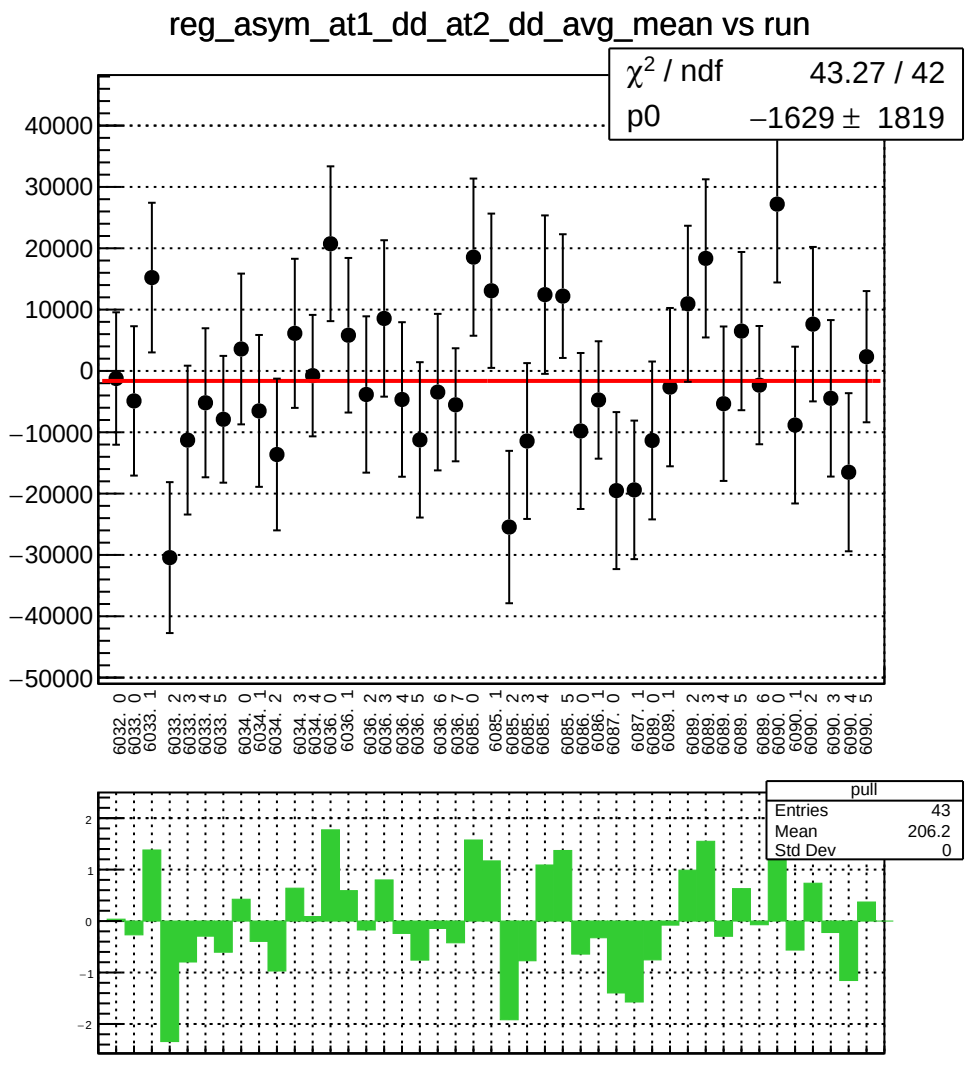

pull1D
Entries 43
Mean 0.04472
Std Dev 1.034

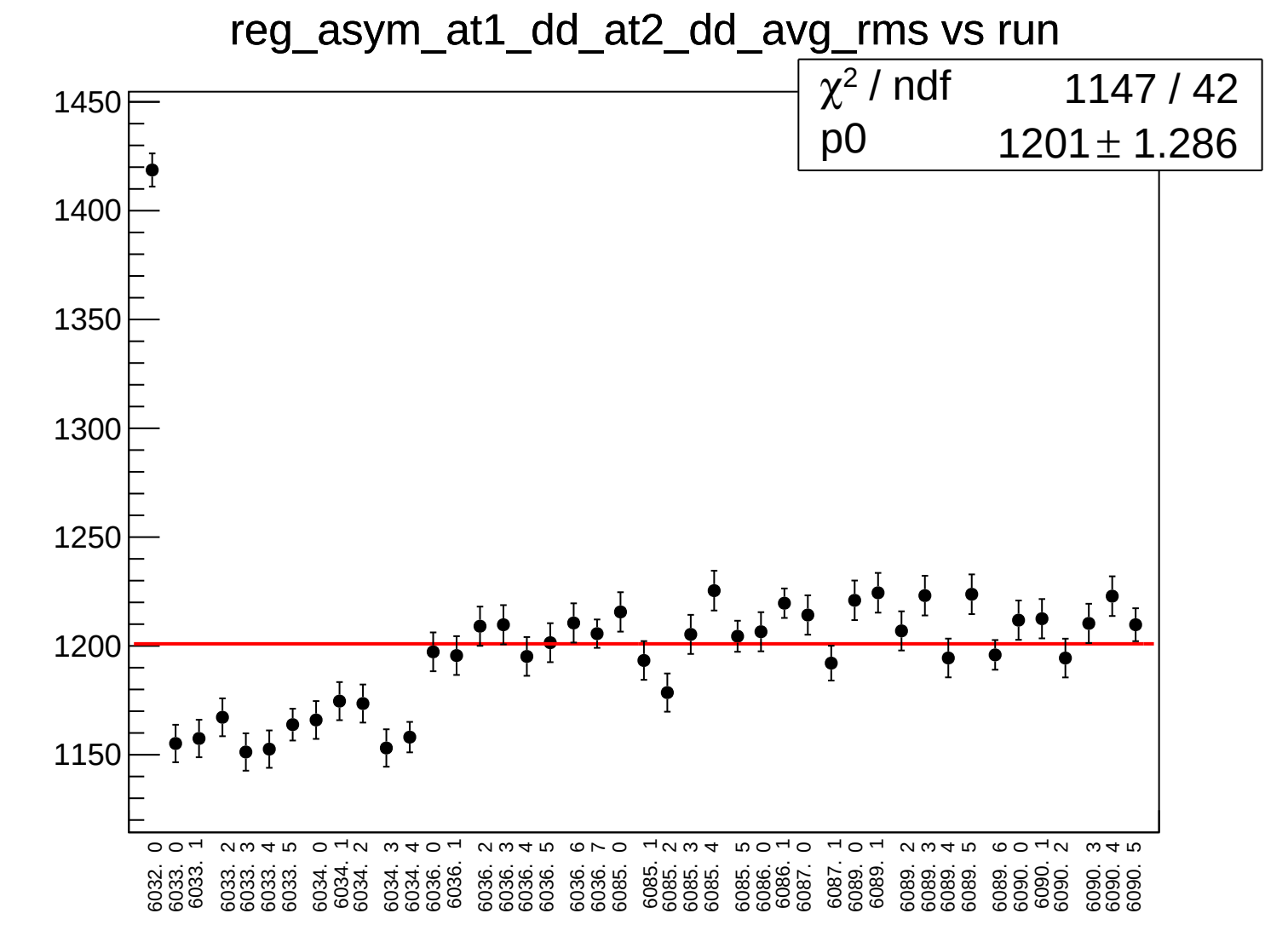

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.569e+04 / 42
p0 55.76 ± 0.06094
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.41 / 42
p0 2.579e−14 ± 4.037e−14
pull
Entries 43
Mean 160.1
Std Dev 0


pull1D
Entries 43
Mean 0.02141
Std Dev 1.016


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.766e+05 / 42
p0 2.011e−11 ± 2.855e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 43.27 / 42
p0 −1629 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006824
Std Dev 1.003
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 1147 / 42
p0 1201 ± 1.286
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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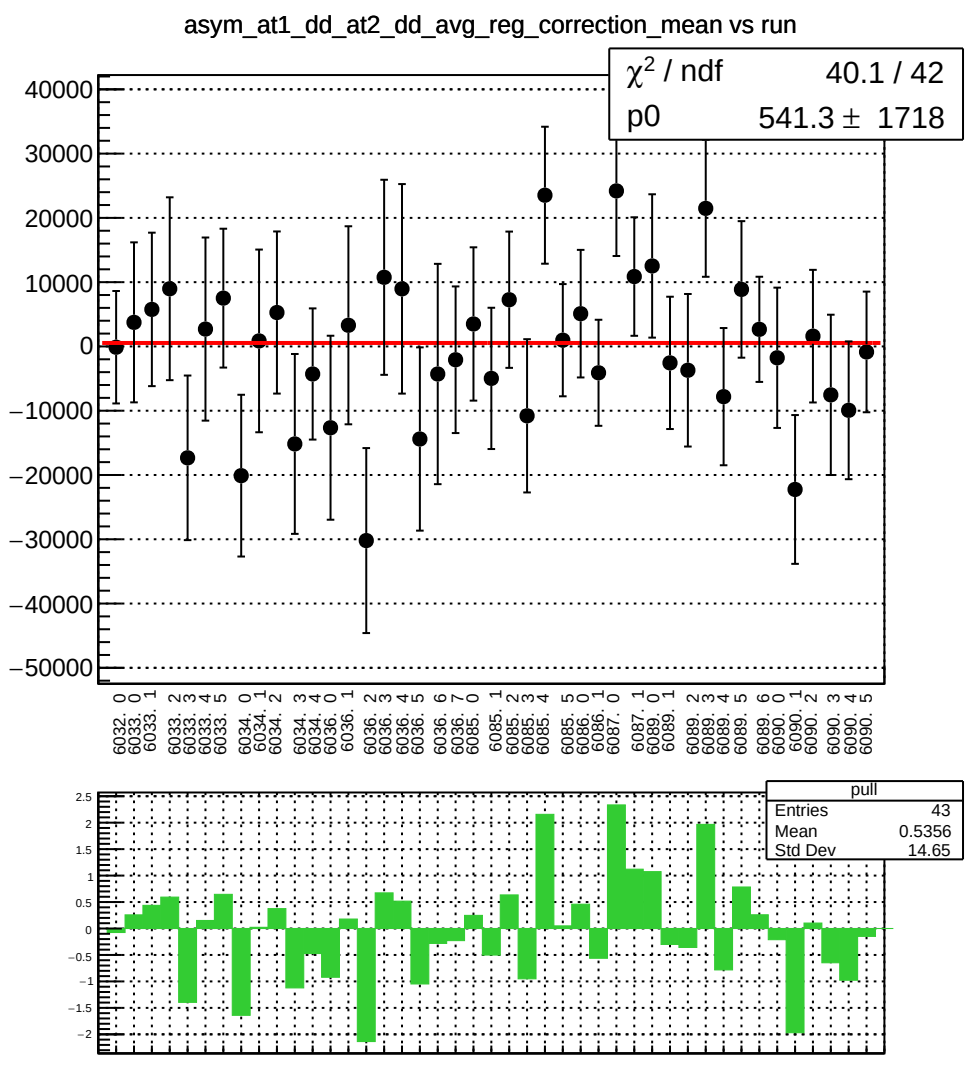
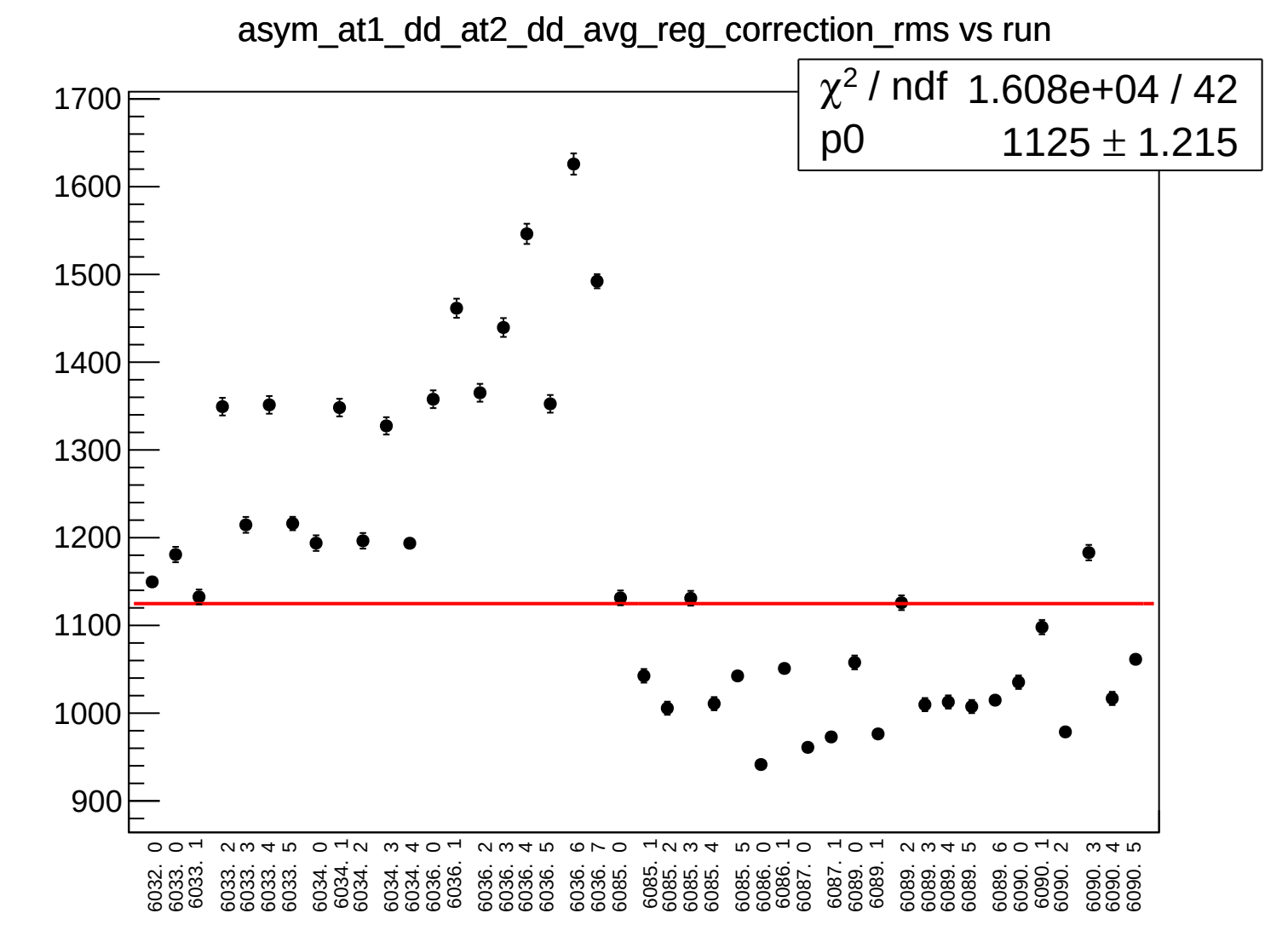
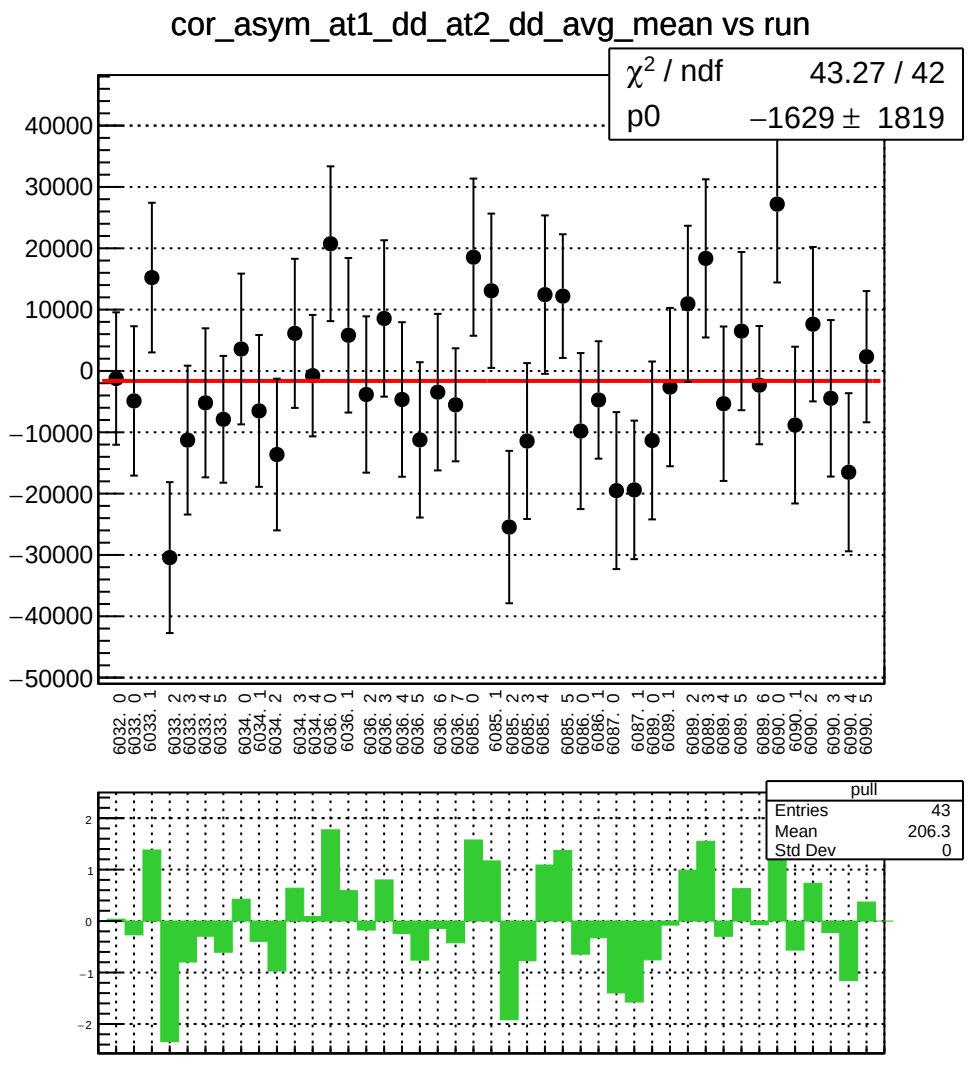
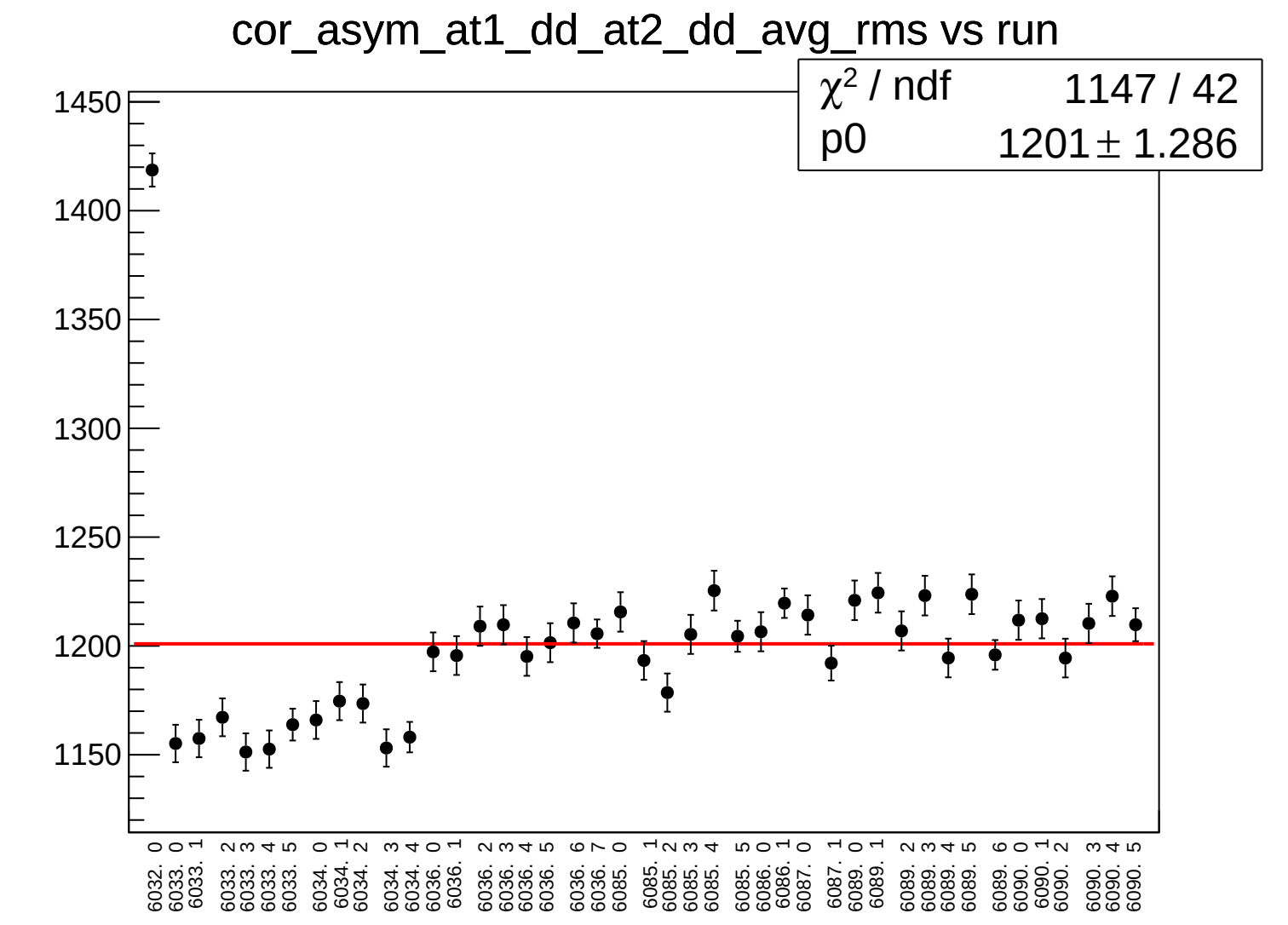
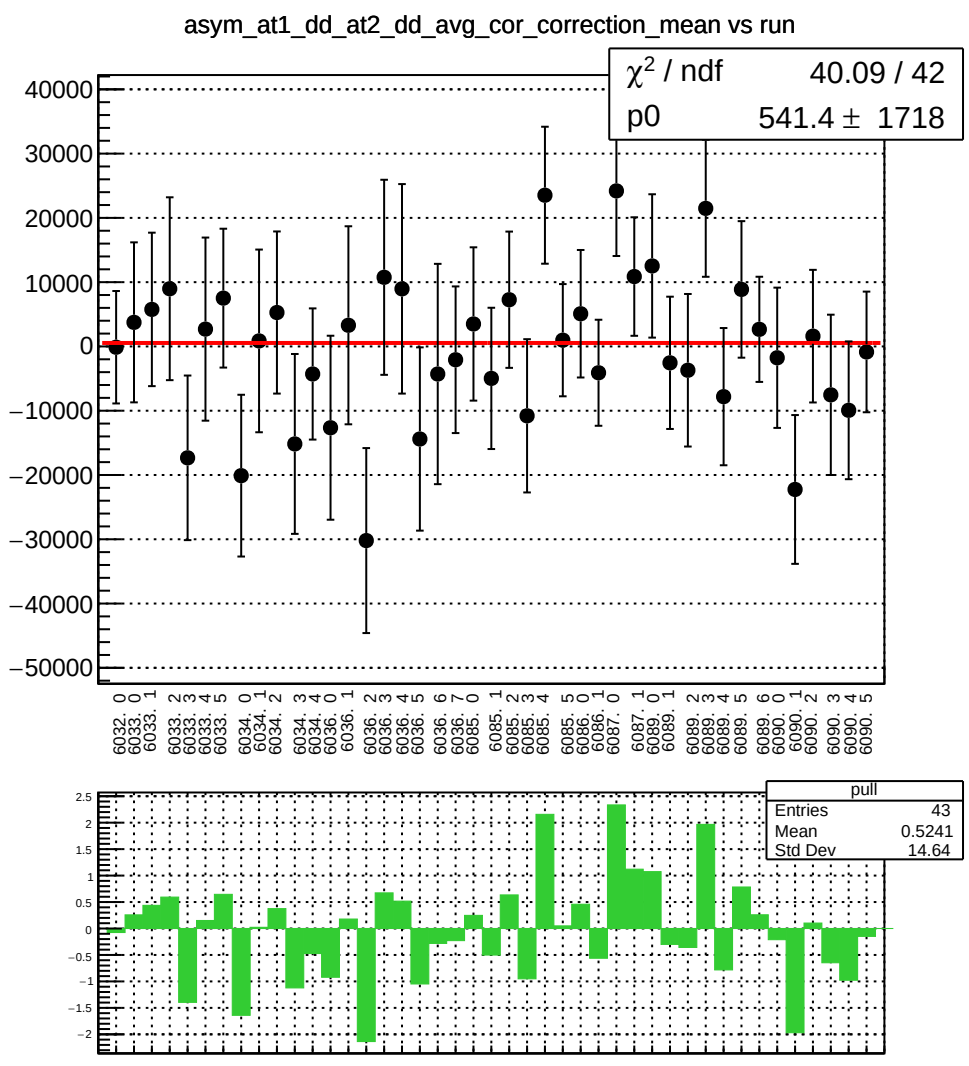
6090. 2
6090. 3
6090. 4
6090. 5

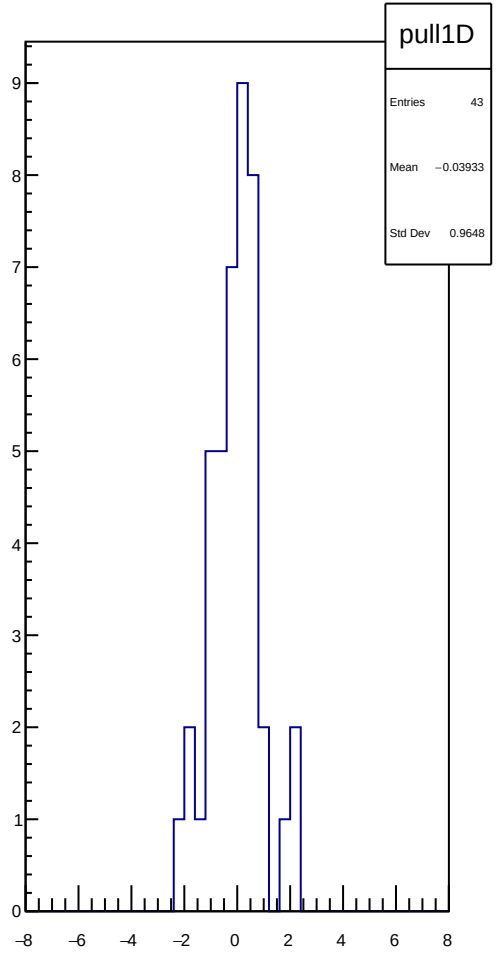

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 40.1 / 42
p0 541.3 ± 1718
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.5356
Std Dev 14.65
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03933
Std Dev 0.9648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

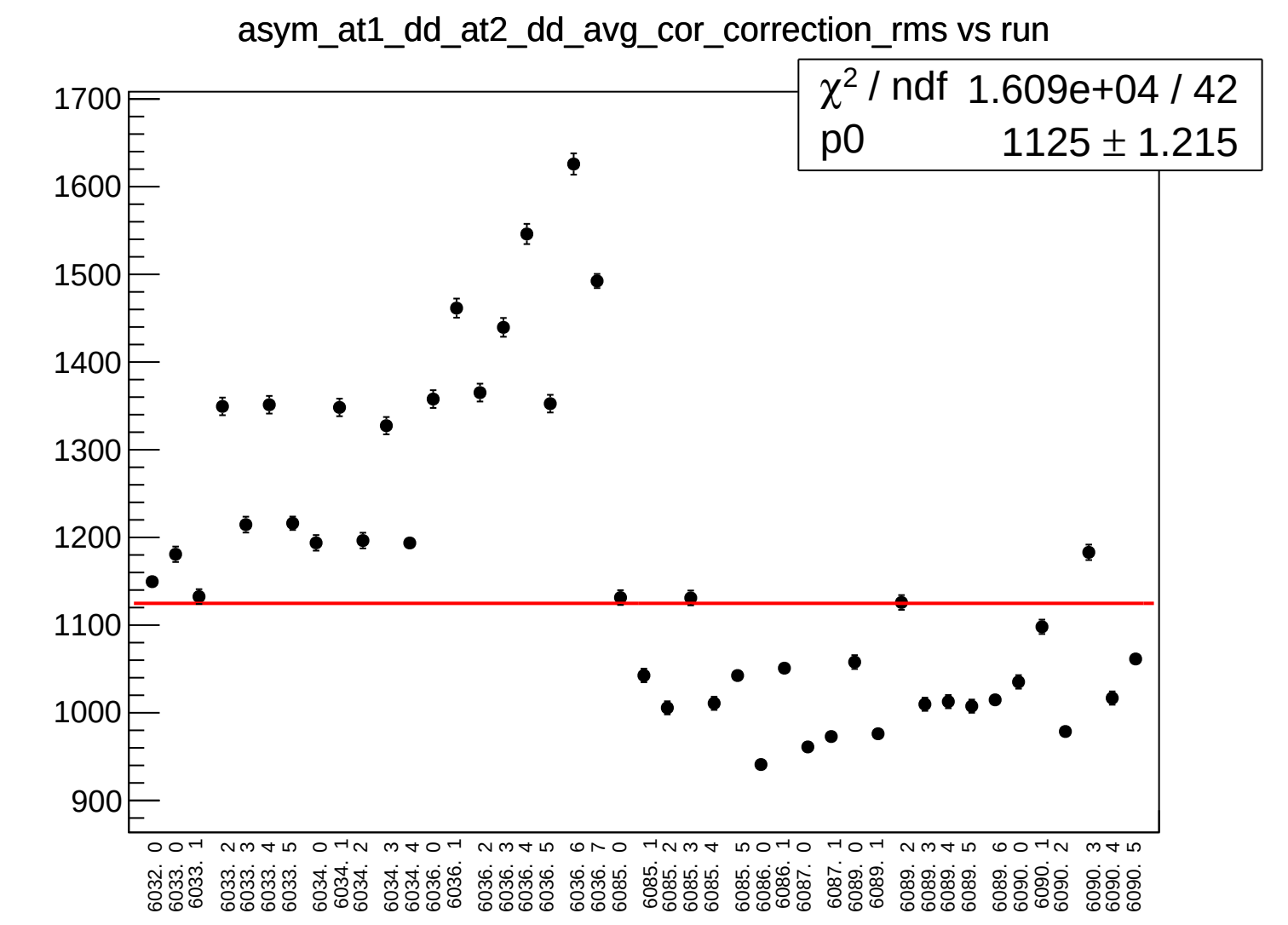

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.608e+04 / 42
p0 1125 ± 1.215
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

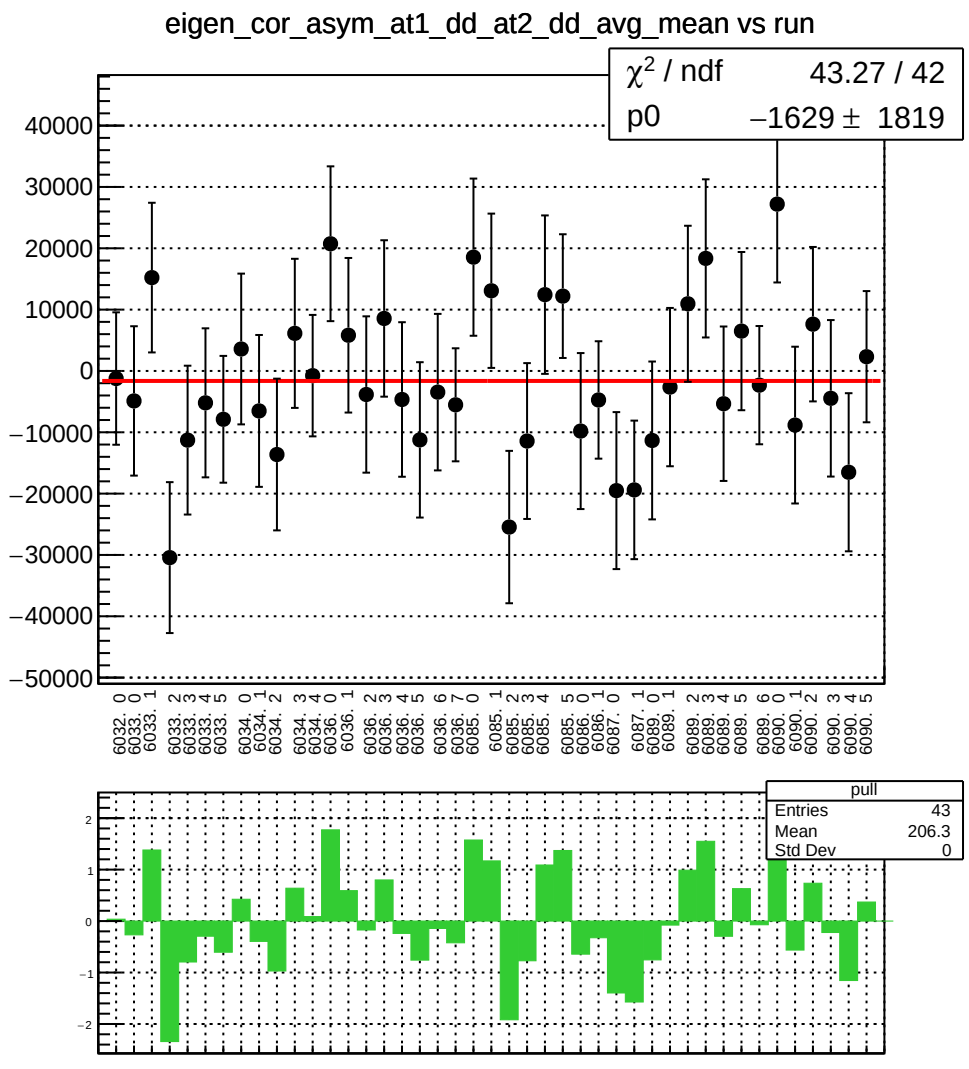

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 43.27 / 42
p0 −1629 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006824
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

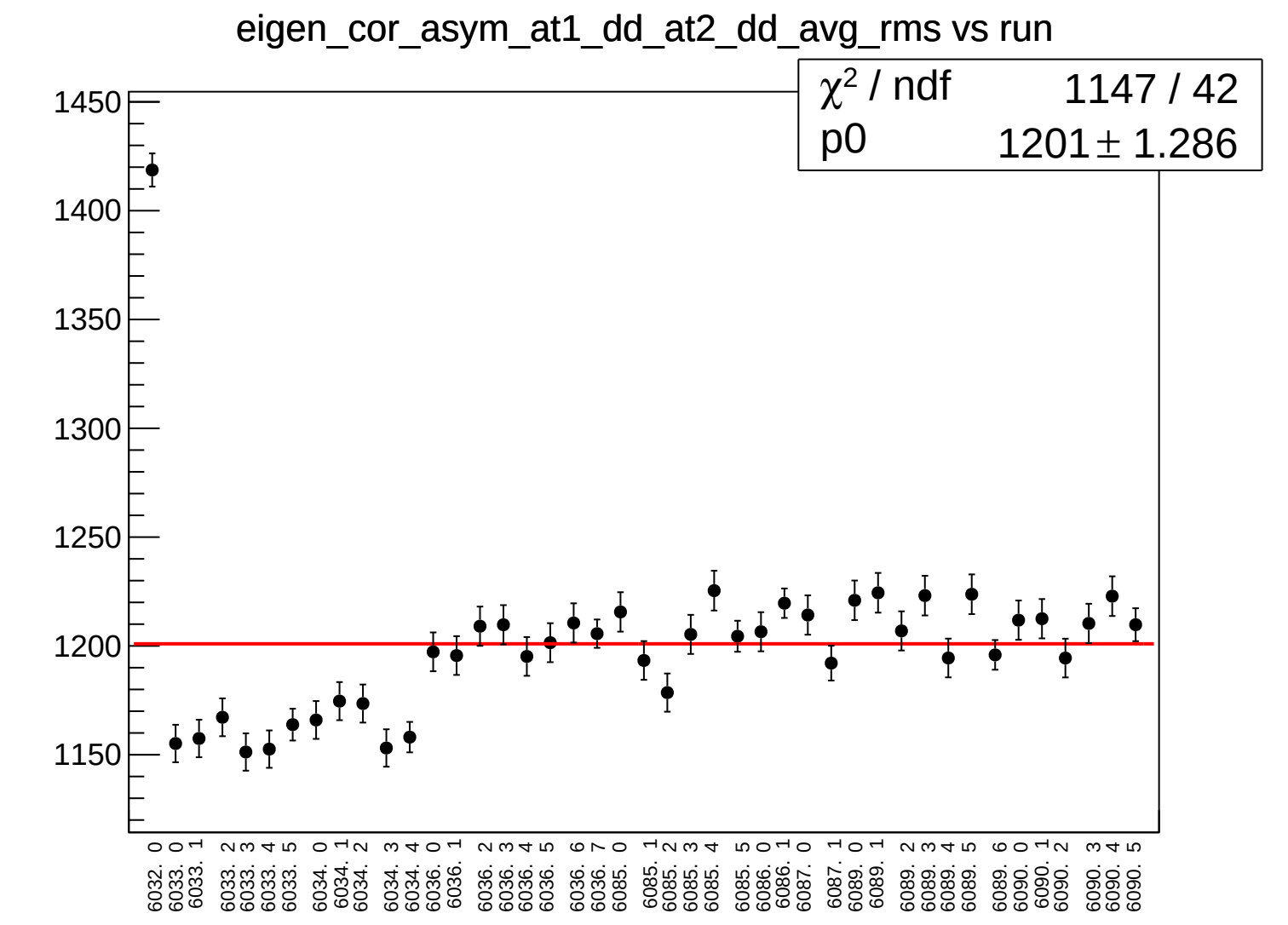

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1147 / 42
p0 1201 ± 1.286
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

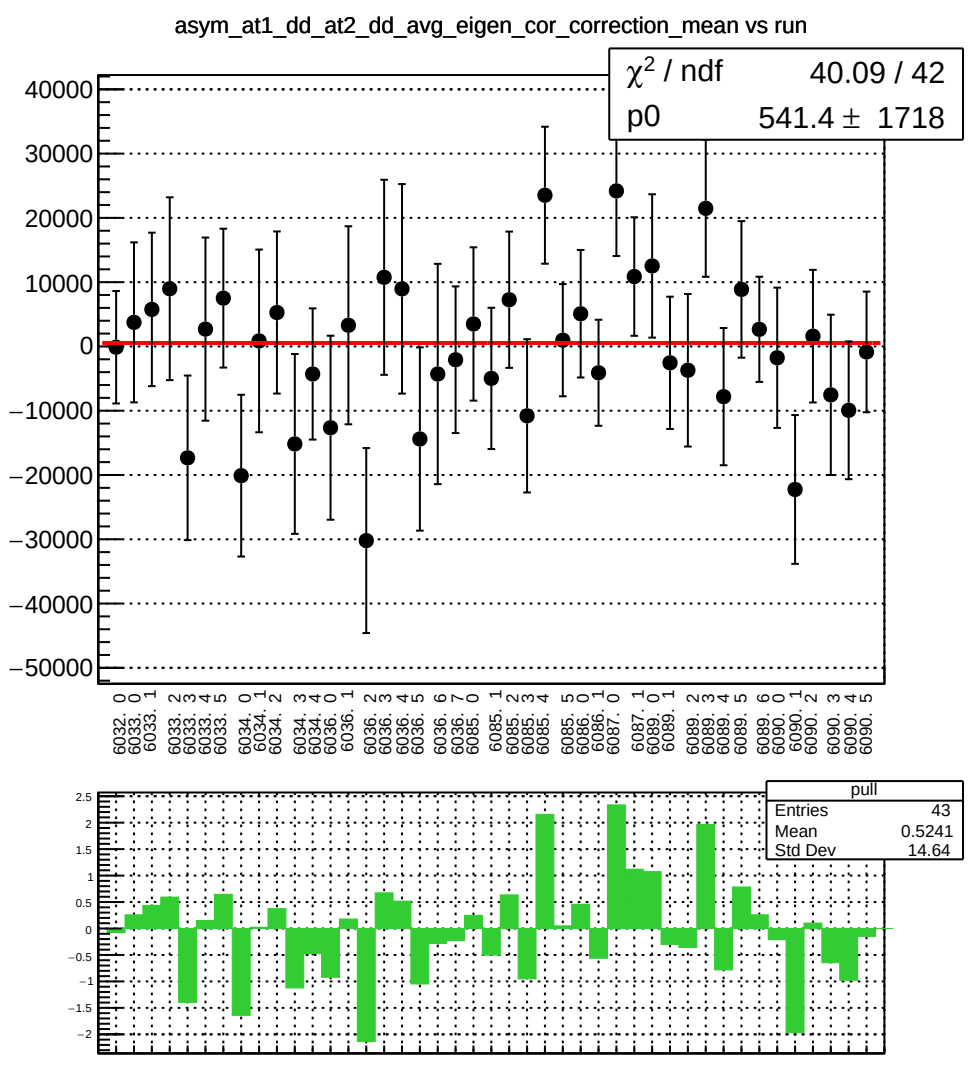

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 40.09 / 42
p0 541.4 ± 1718
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.5241
Std Dev 14.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

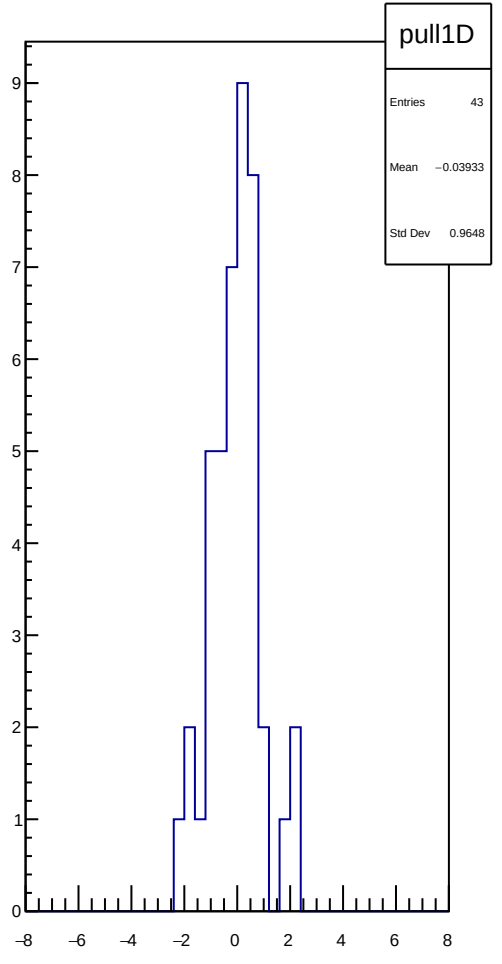

pull1D
Entries 43
Mean −0.03933
Std Dev 0.9648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

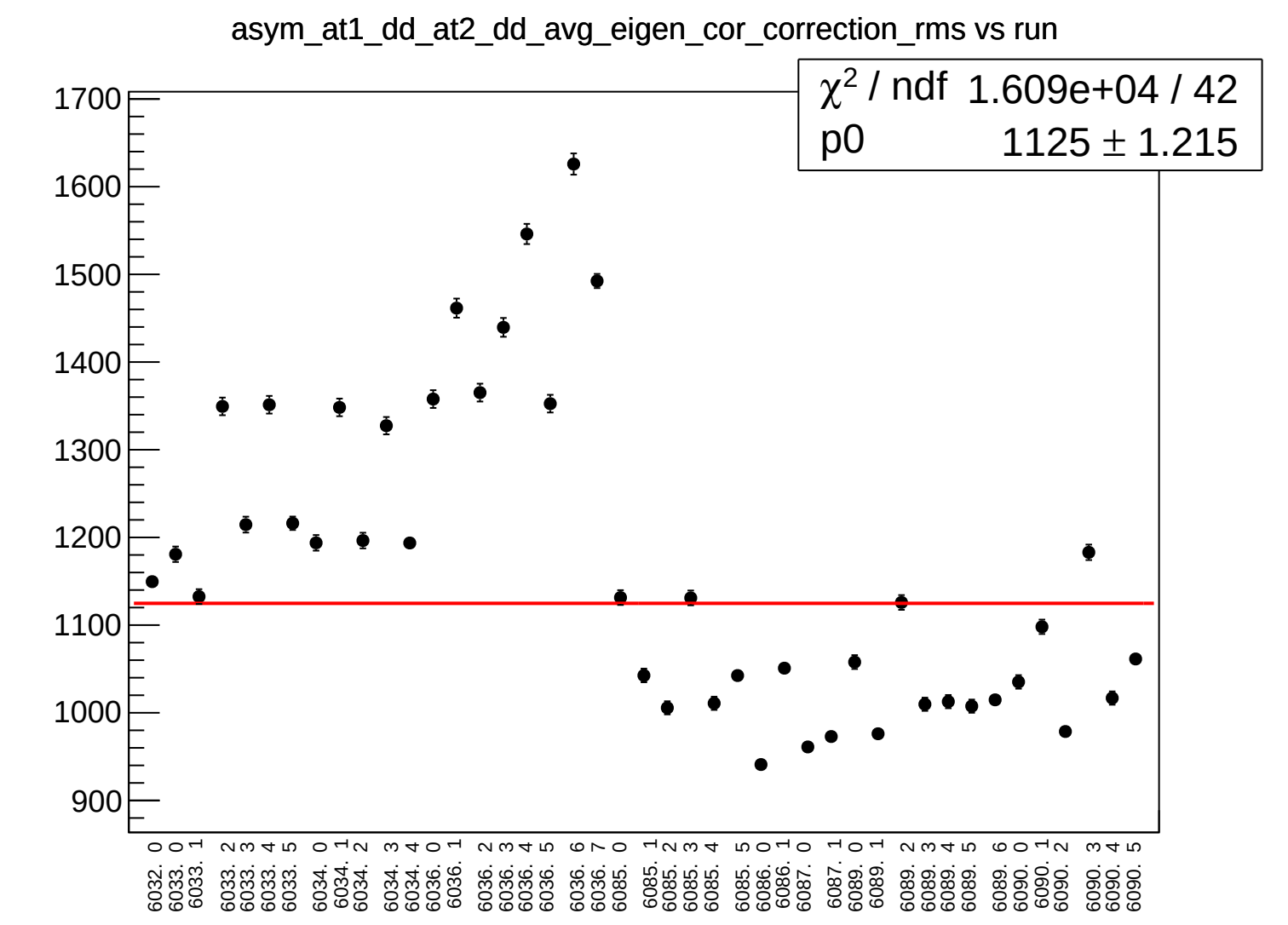

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.609e+04 / 42
p0 1125 ± 1.215
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

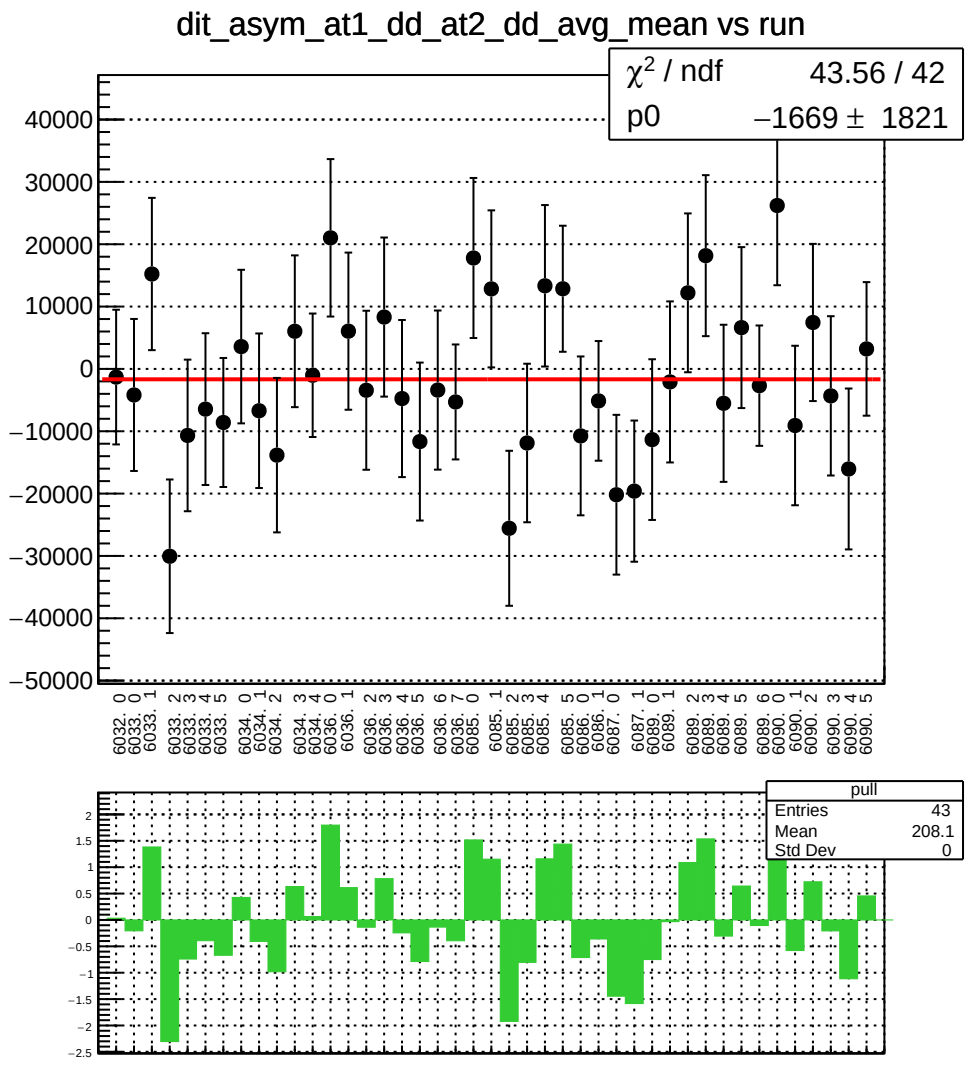

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 43.27 / 42
p0 −1629 ± 1819
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006824
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

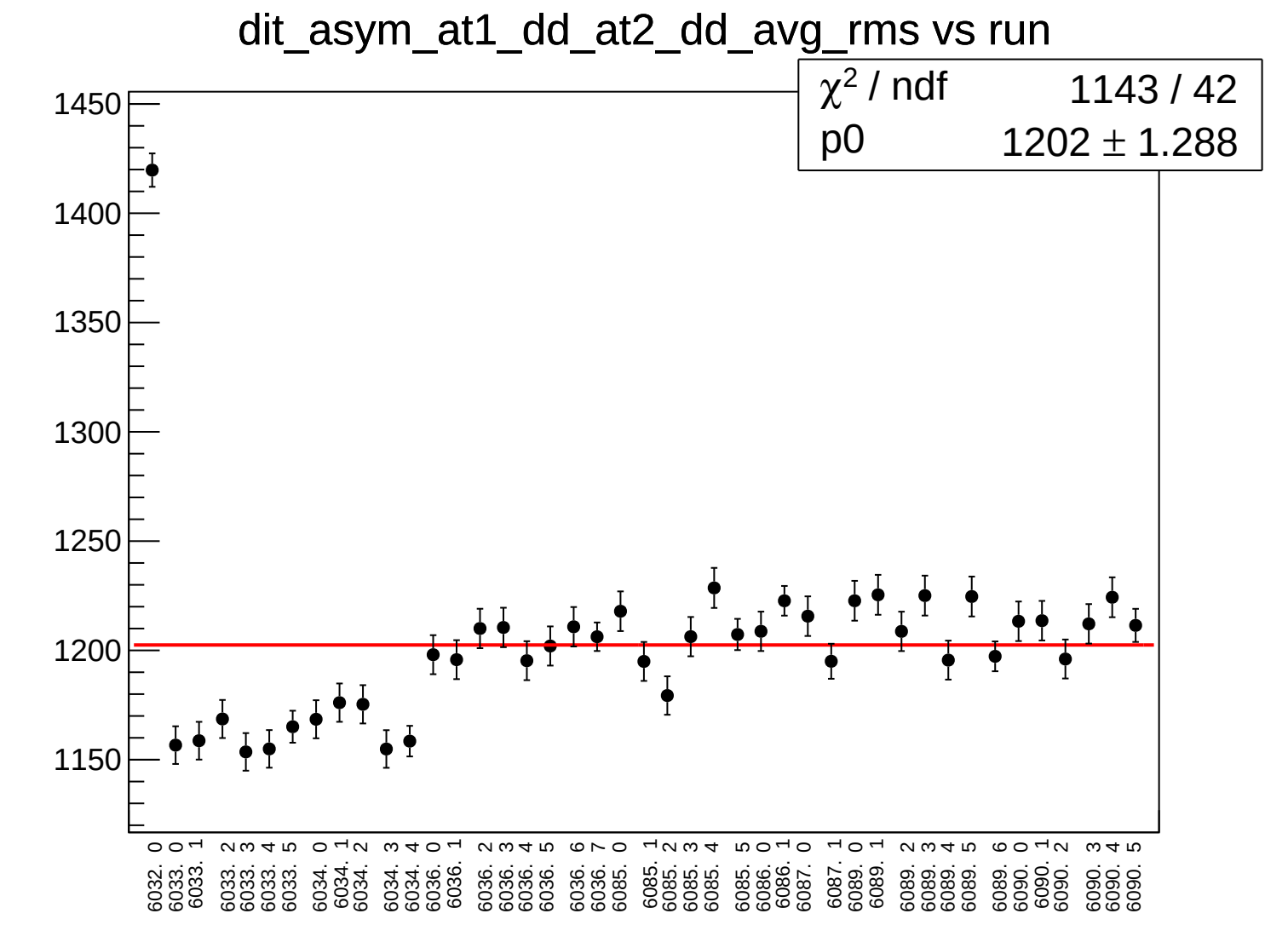

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1147 / 42
p0 1201 ± 1.286
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

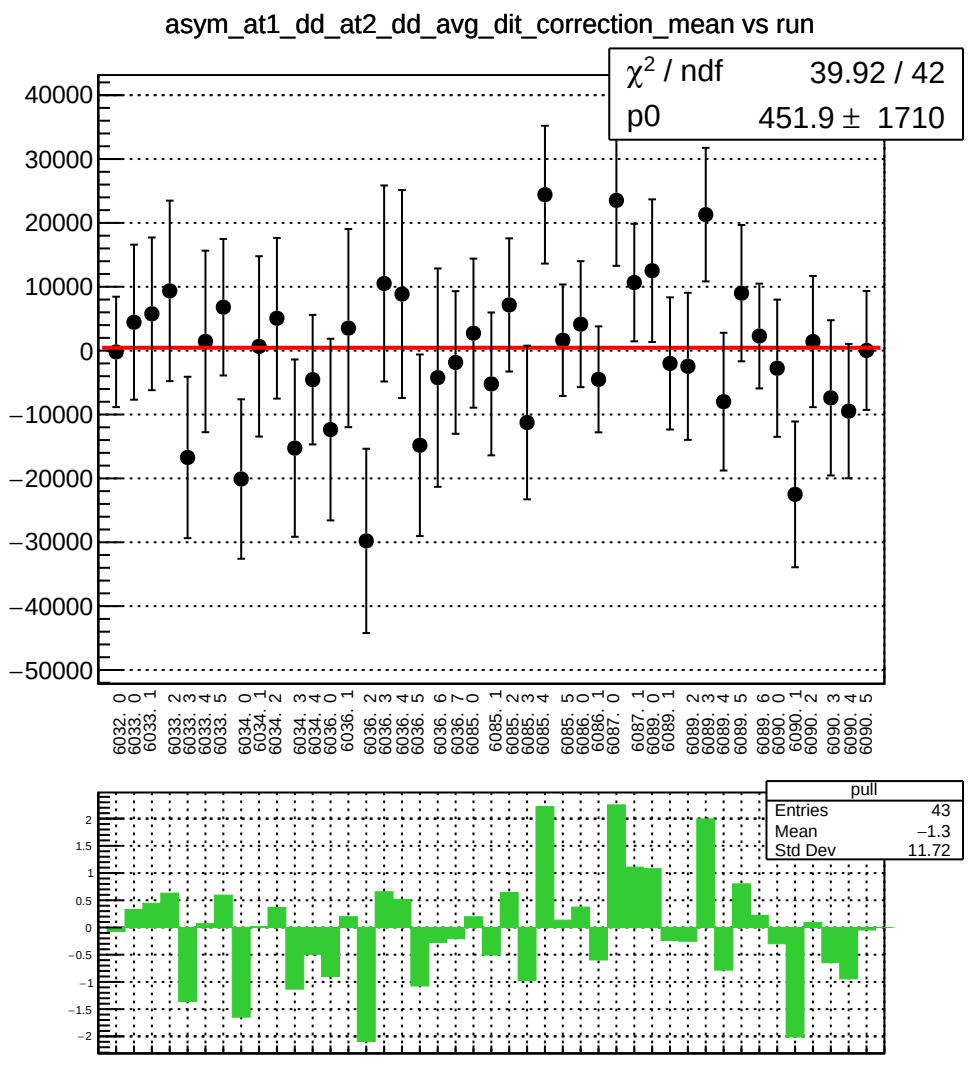

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.09 / 42
p0 541.4 ± 1718
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.5241
Std Dev 14.64
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

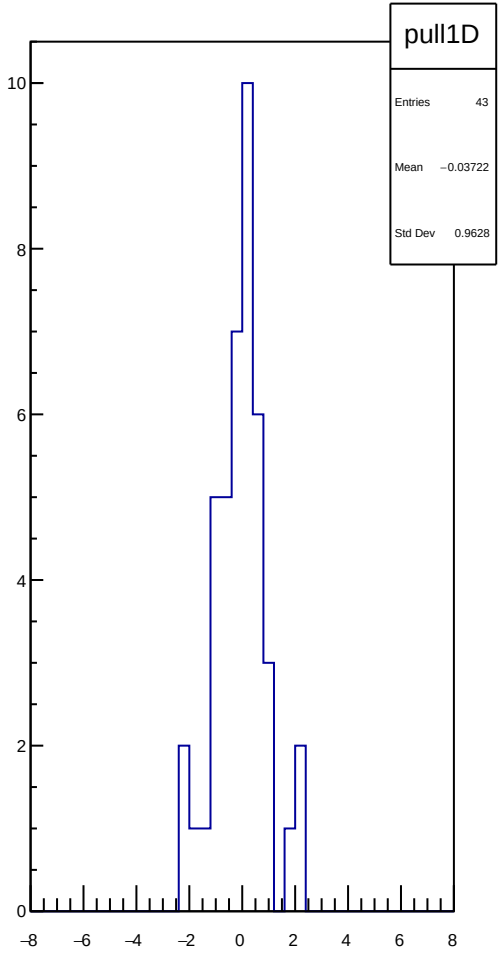

pull1D
Entries 43
Mean −0.03933
Std Dev 0.9648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

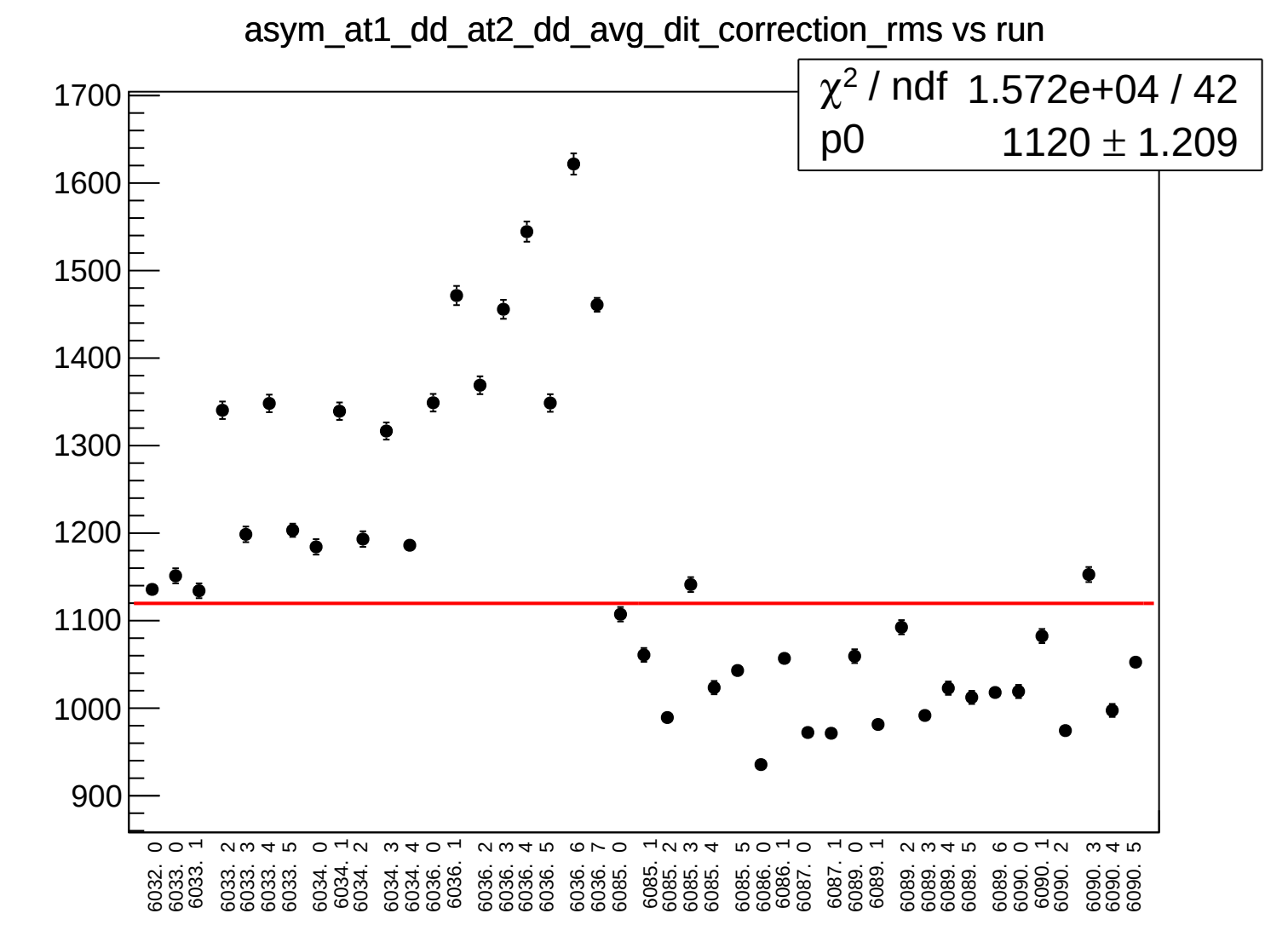

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.609e+04 / 42
p0 1125 ± 1.215
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

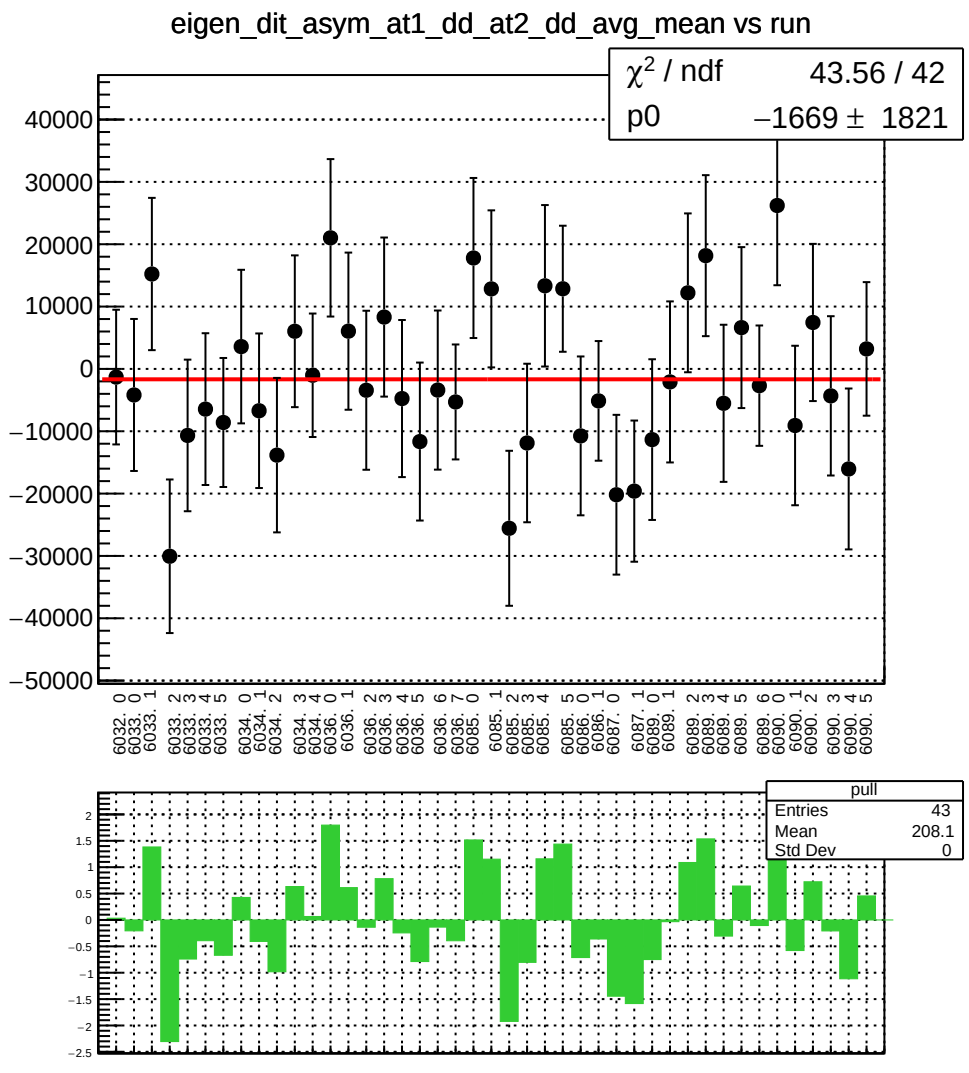

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 43.56 / 42
p0 −1669 ± 1821
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 208.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.006929
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

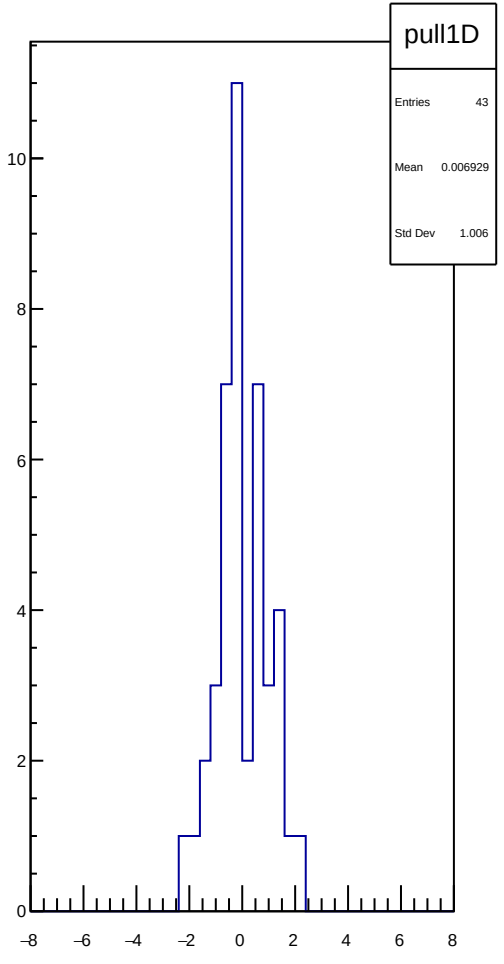

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1143 / 42
p0 1202 ± 1.288
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

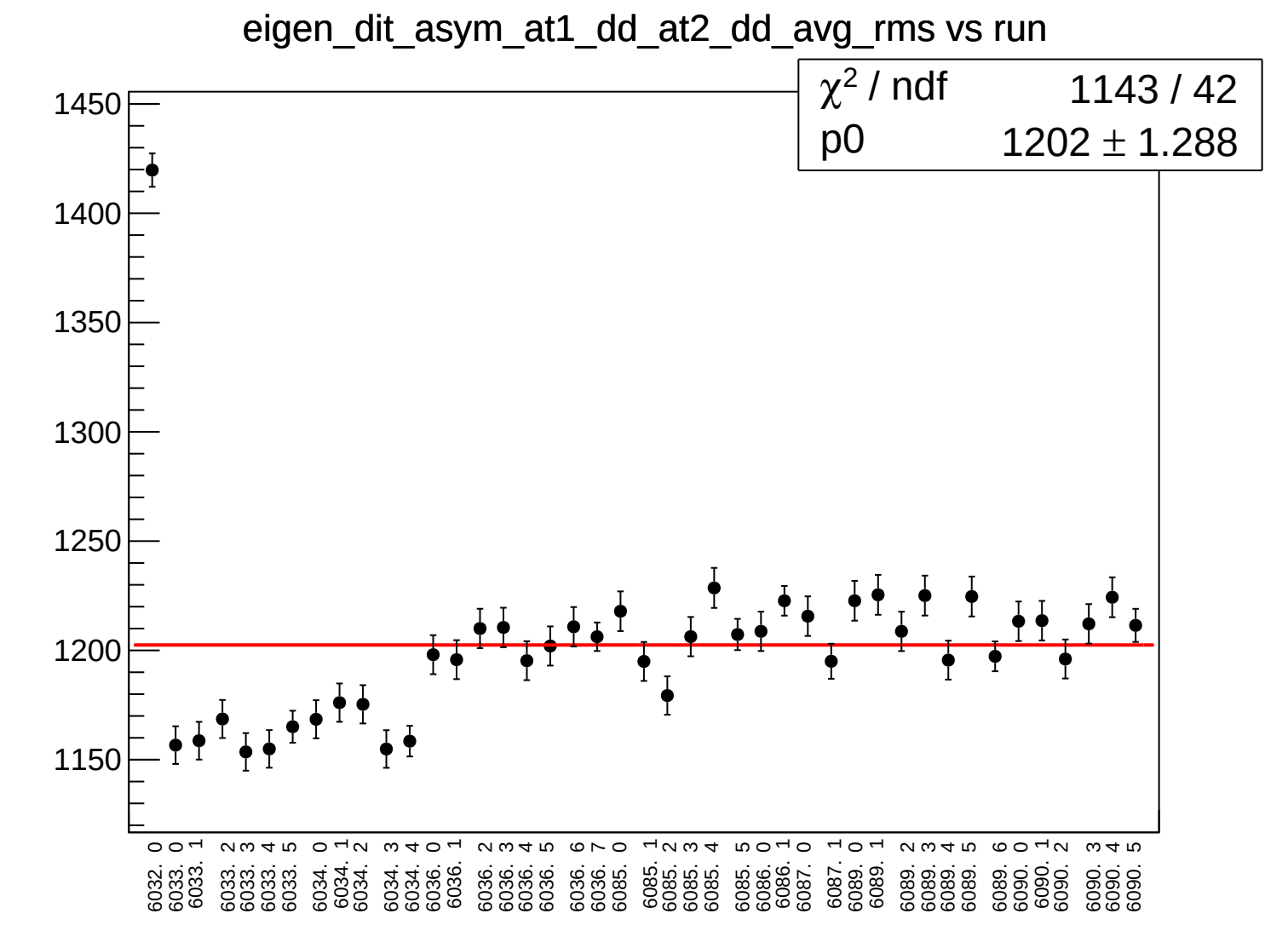

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 39.92 / 42
p0 451.9 ± 1710
pull
Entries 43
Mean −1.3
Std Dev 11.72

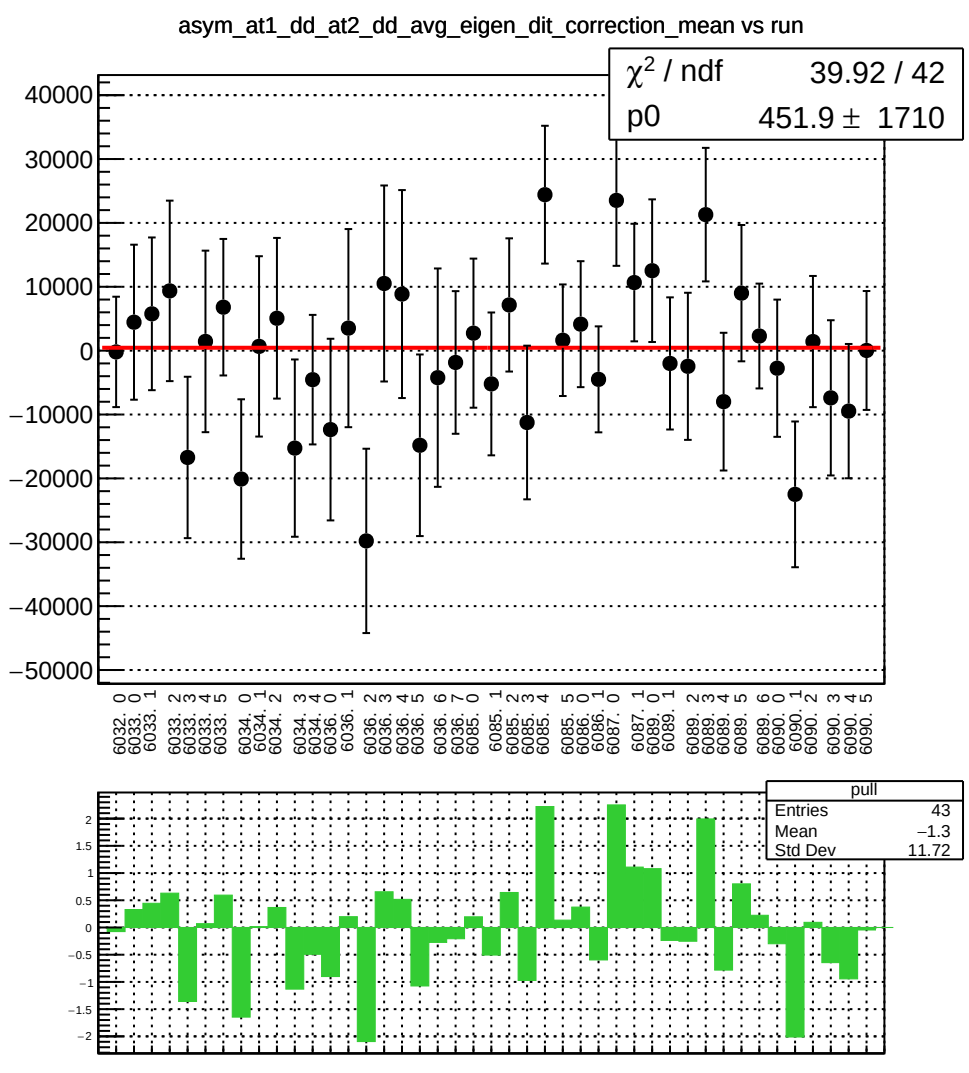

pull1D
Entries 43
Mean −0.03722
Std Dev 0.9628

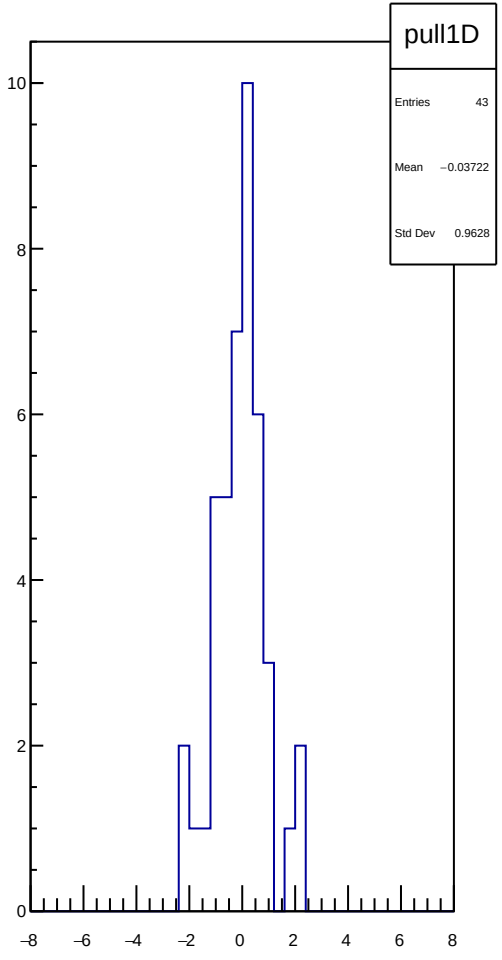

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 42
p0 1120 ± 1.209
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

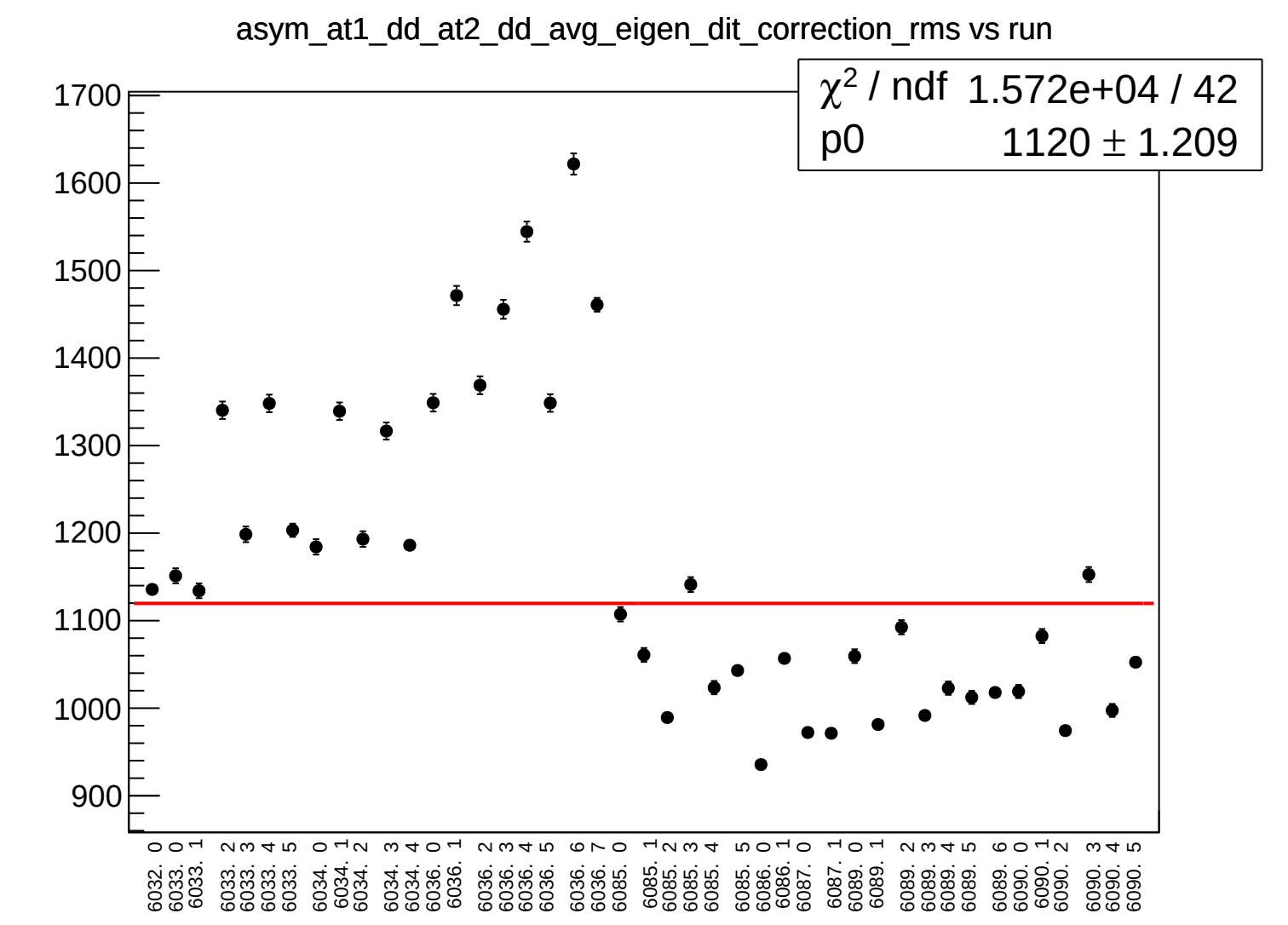

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 43.56 / 42
p0 −1669 ± 1821
pull
Entries 43
Mean 208.1
Std Dev 0

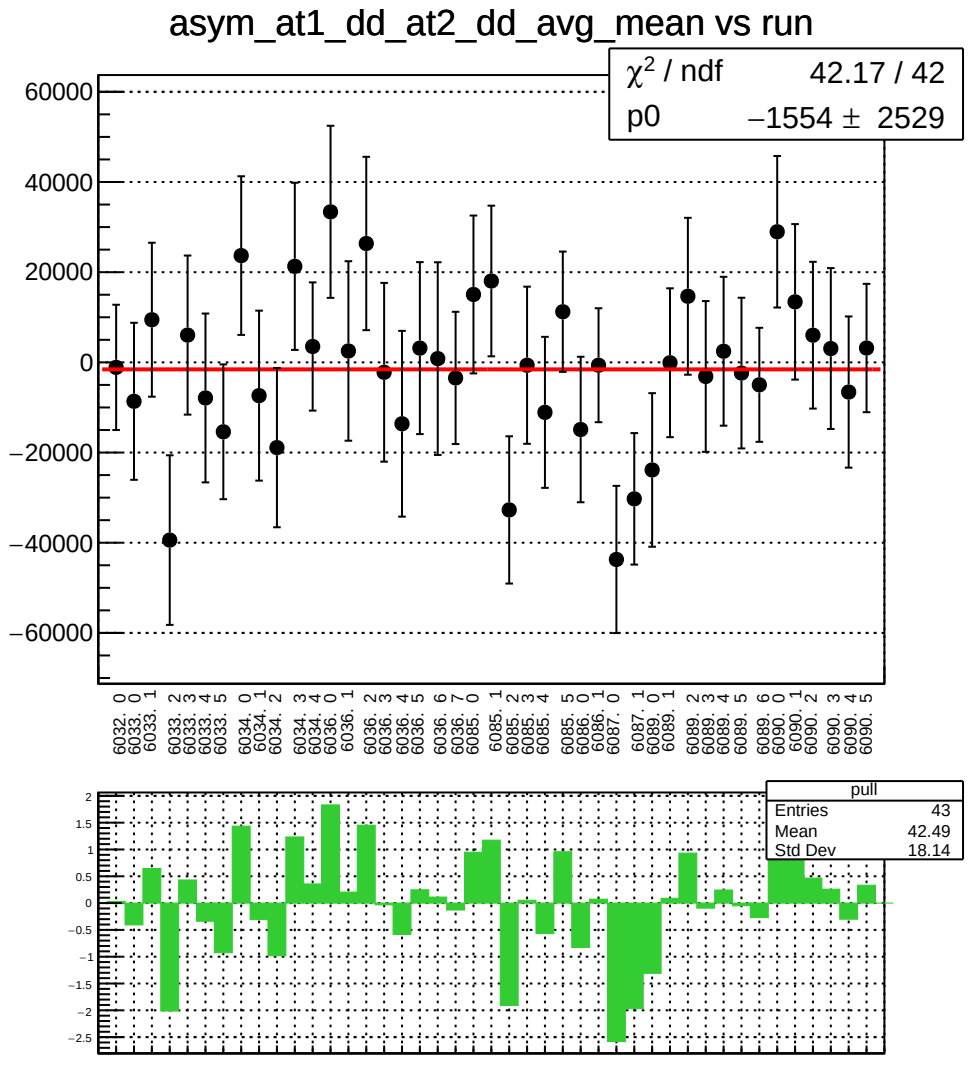

pull1D
Entries 43
Mean 0.006929
Std Dev 1.006

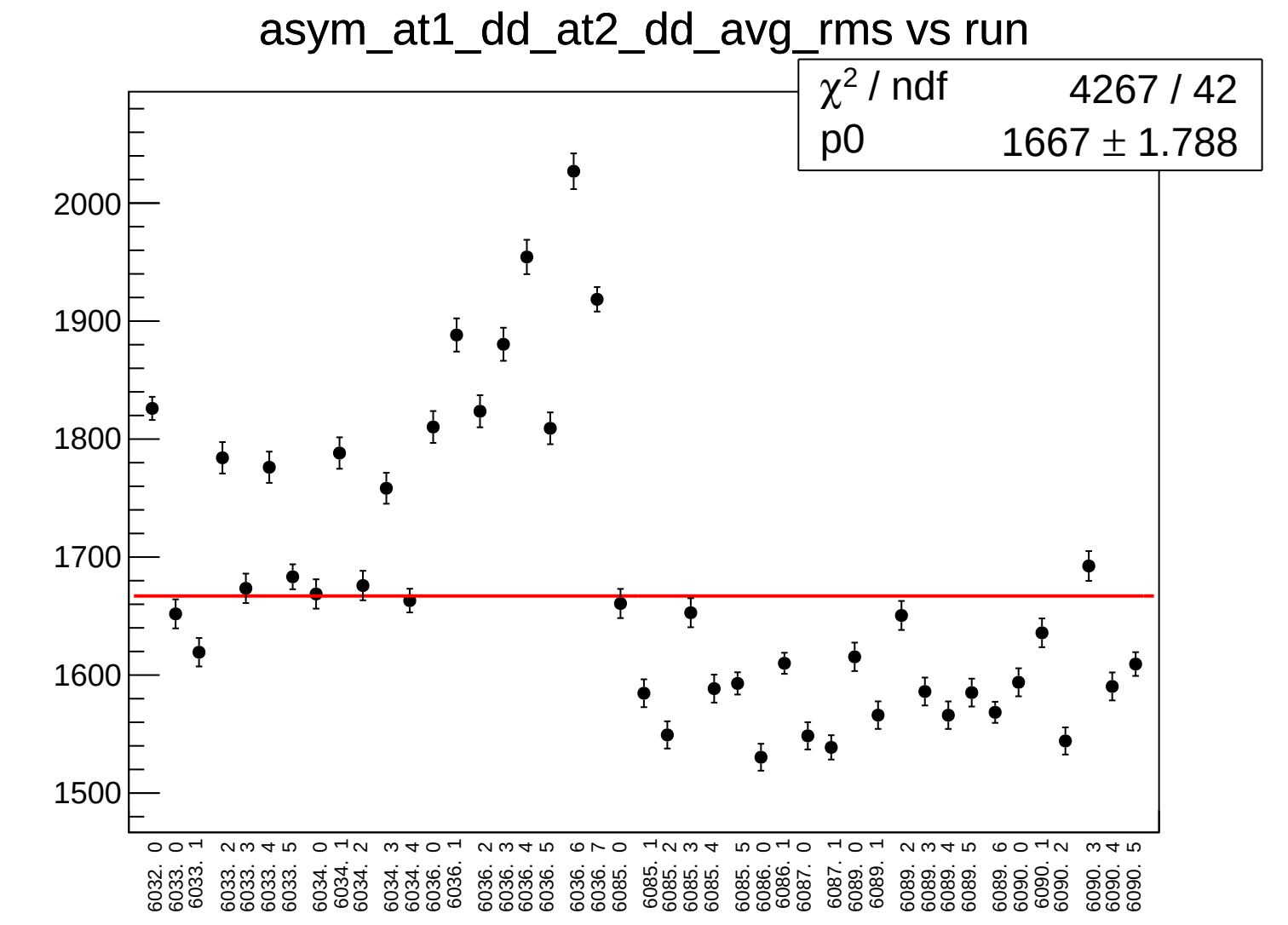

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1143 / 42
p0 1202 ± 1.288
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

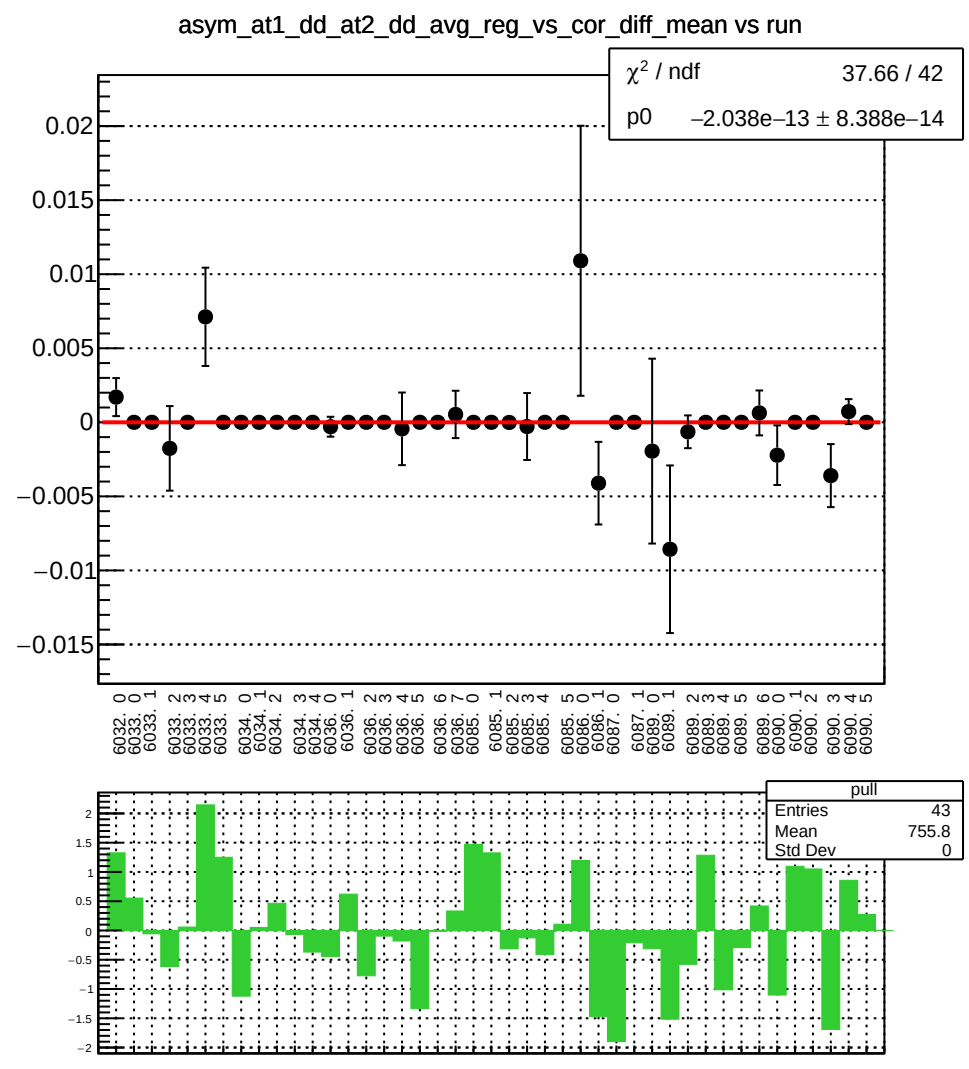

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.92 / 42
p0 451.9 ± 1710
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.3
Std Dev 11.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

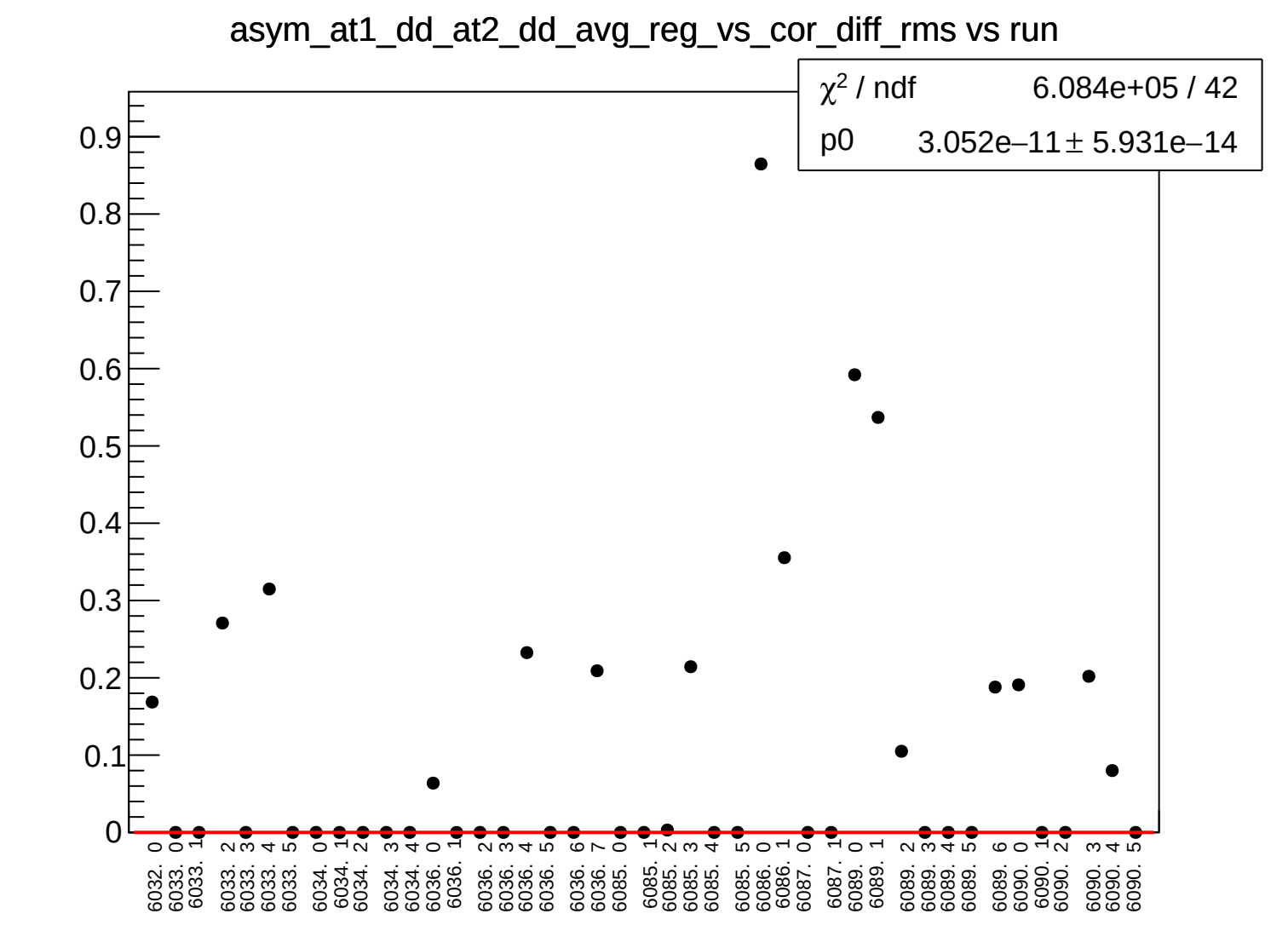

pull1D
Entries 43
Mean −0.03722
Std Dev 0.9628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

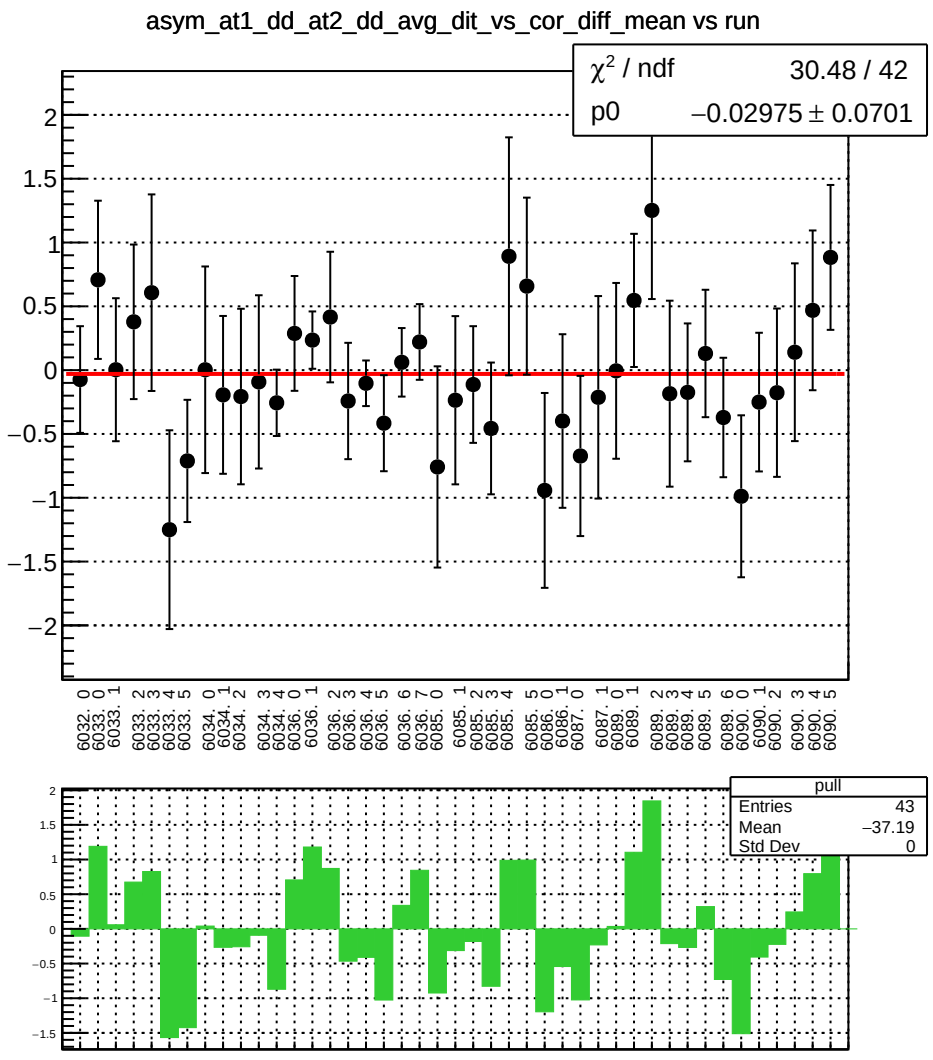

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.572e+04 / 42
p0 1120 ± 1.209
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

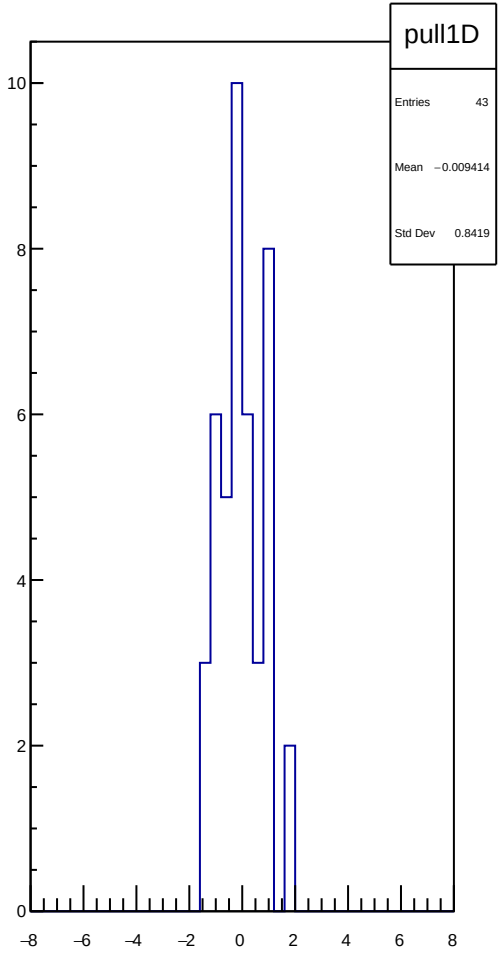

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 42.17 / 42
p0 −1554 ± 2529
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 42.49
Std Dev 18.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01371
Std Dev 0.9902
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

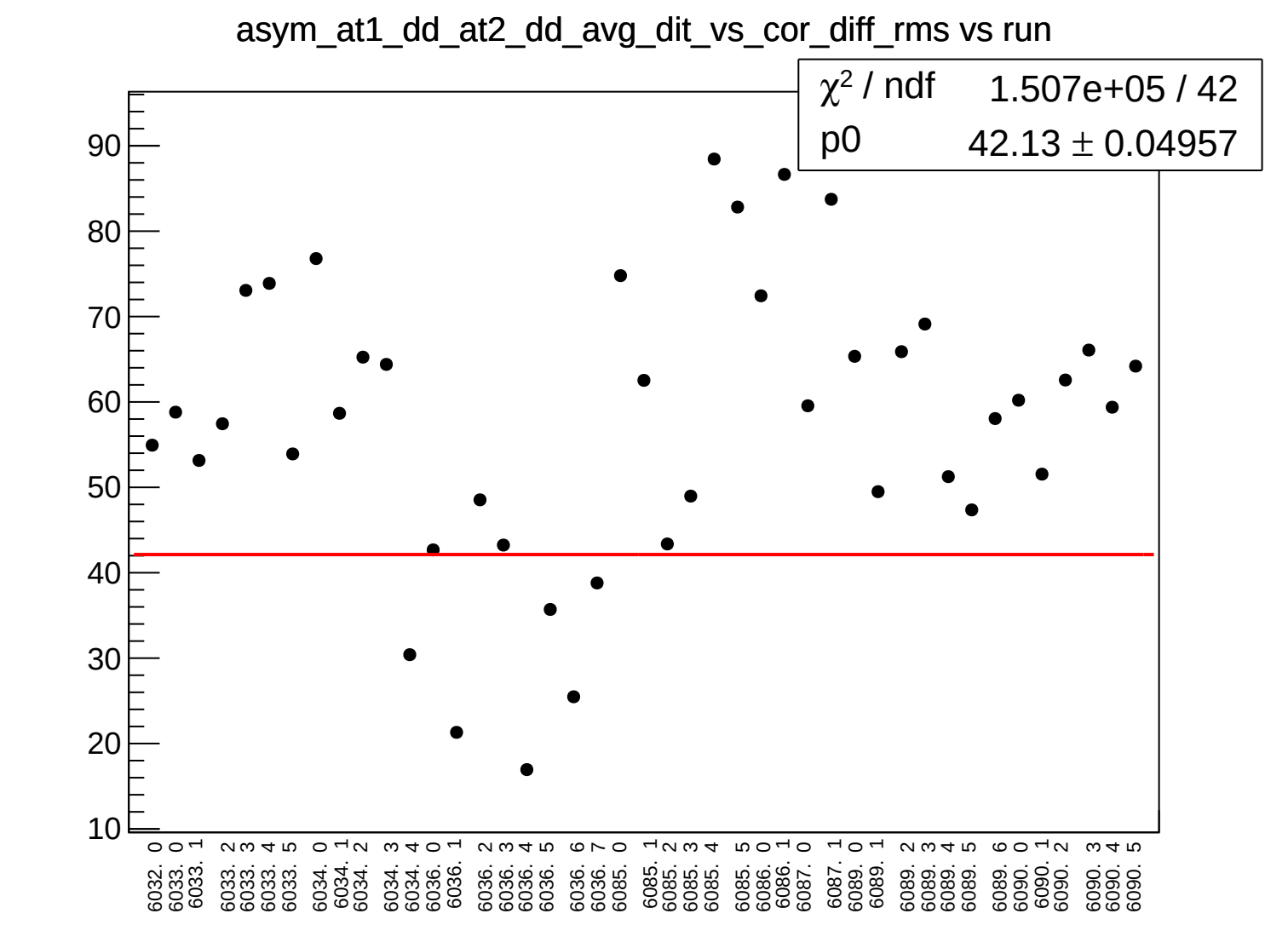

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 4267 / 42
p0 1667 ± 1.788
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

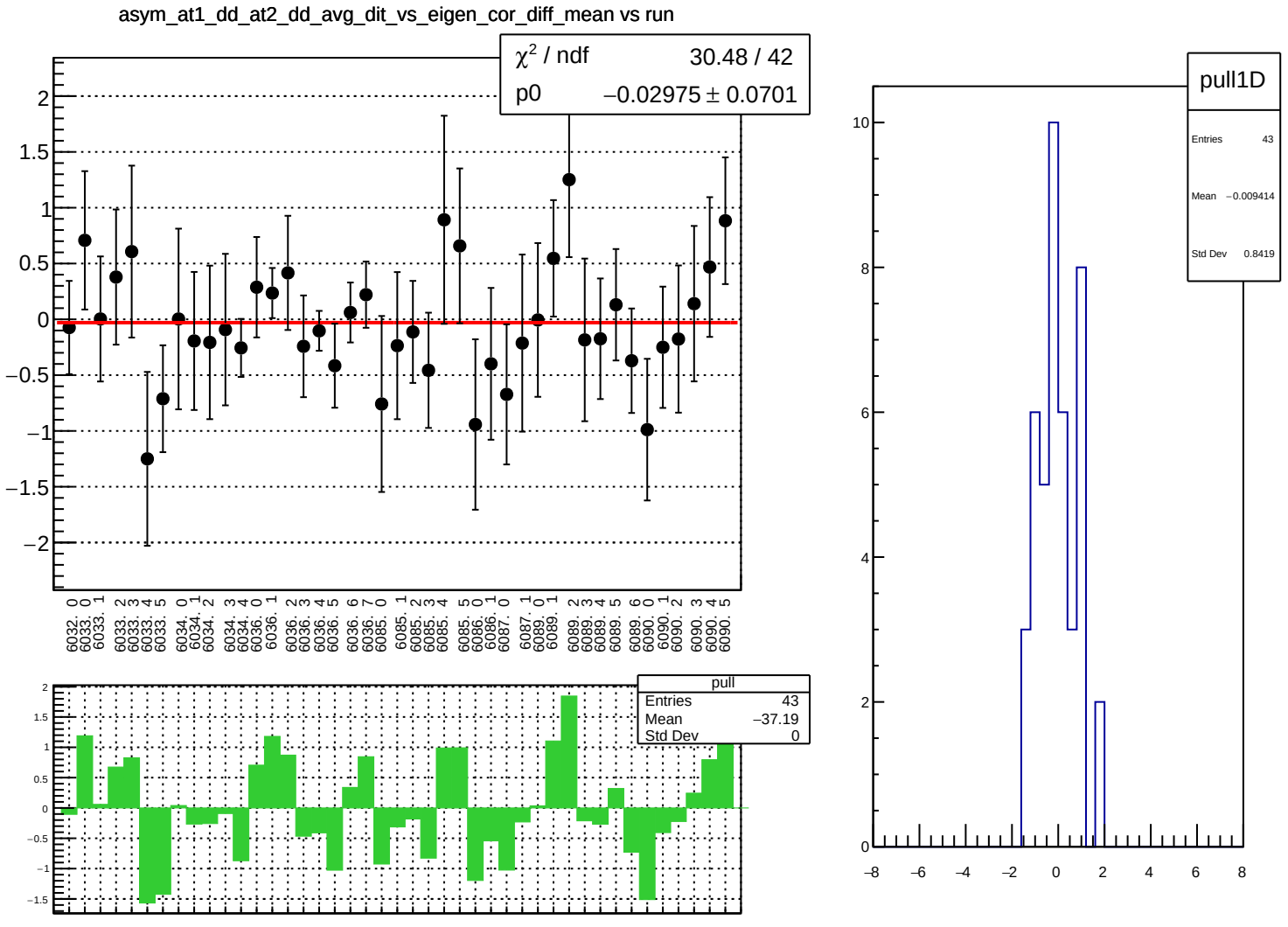

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 37.66 / 42
p0 −2.038e−13 ± 8.388e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 755.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002728
Std Dev 0.9359
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

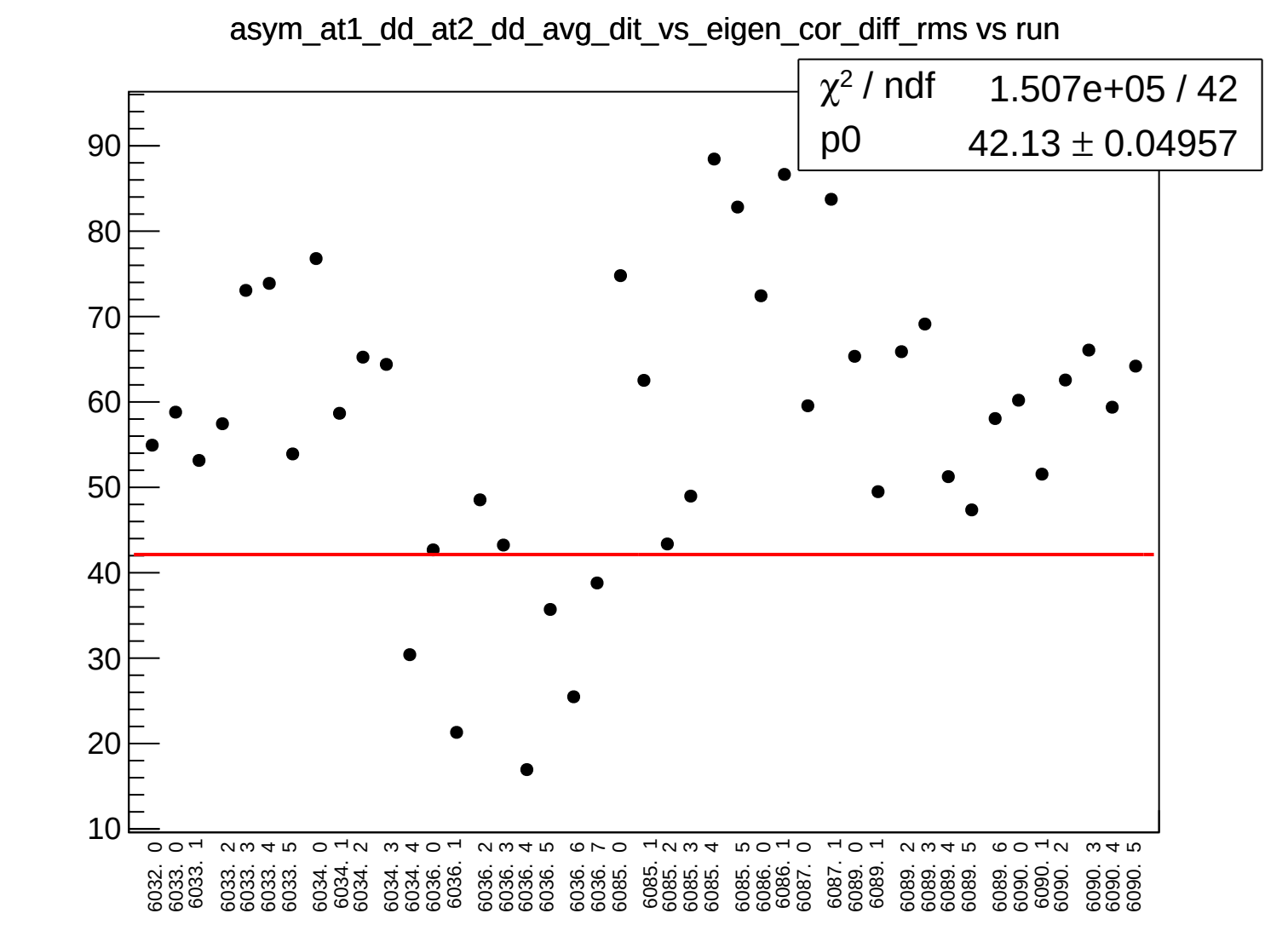

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.084e+05 / 42
p0 3.052e−11 ± 5.931e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

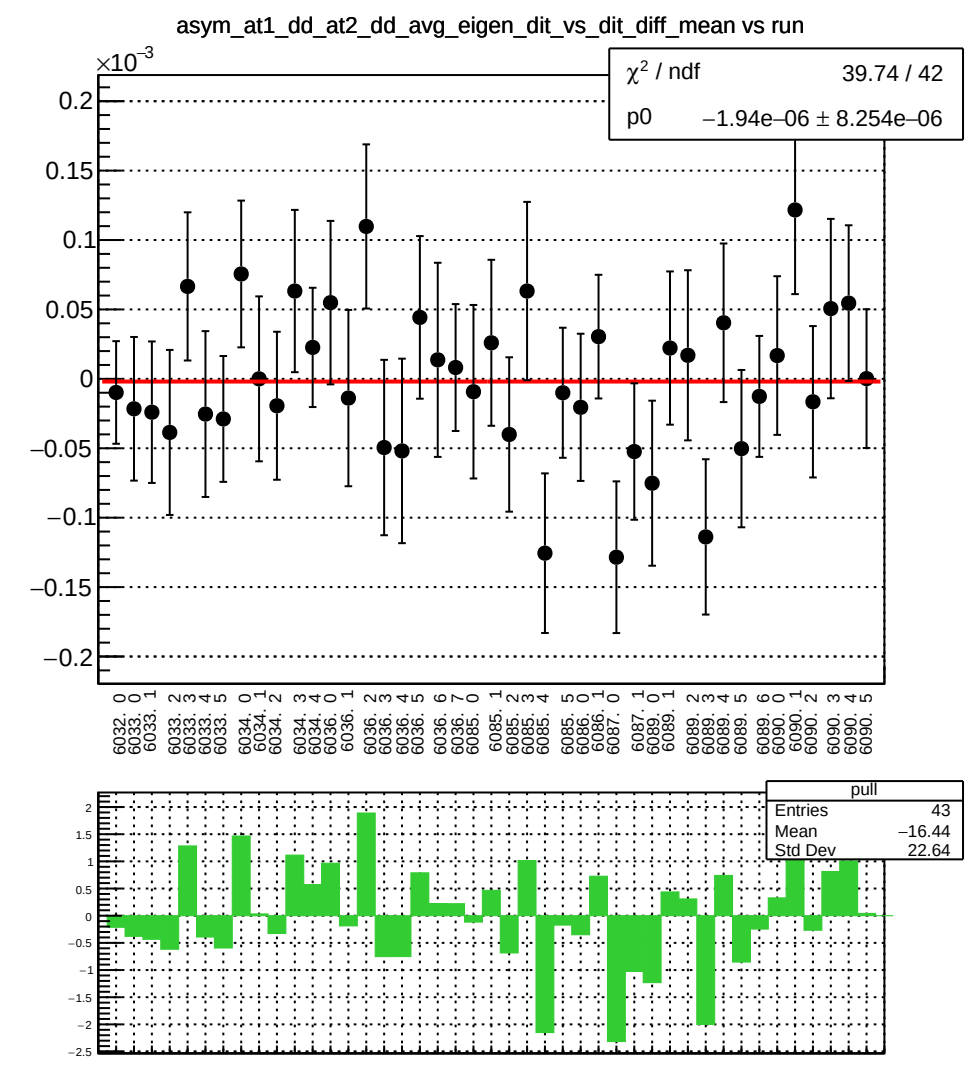

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
pull
Entries 43
Mean −37.19
Std Dev 0

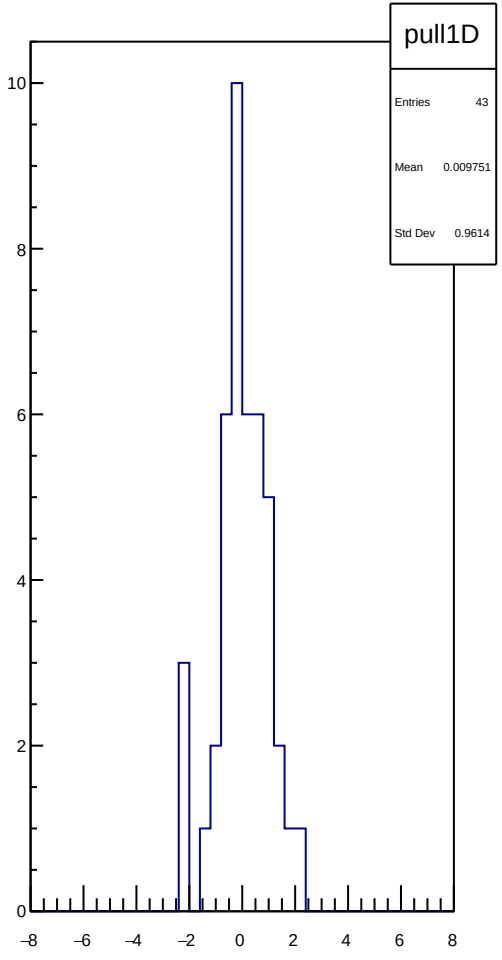

pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

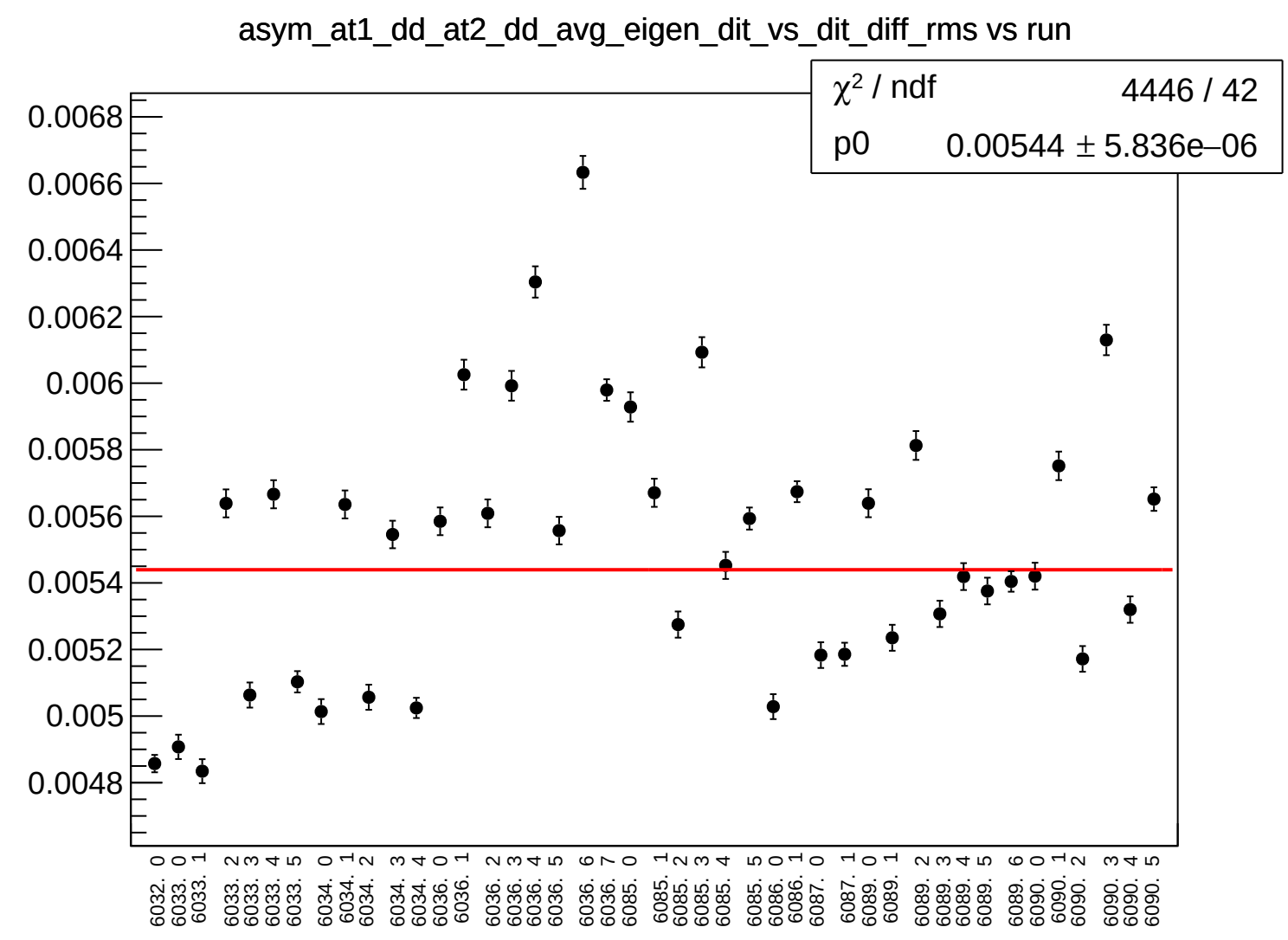

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

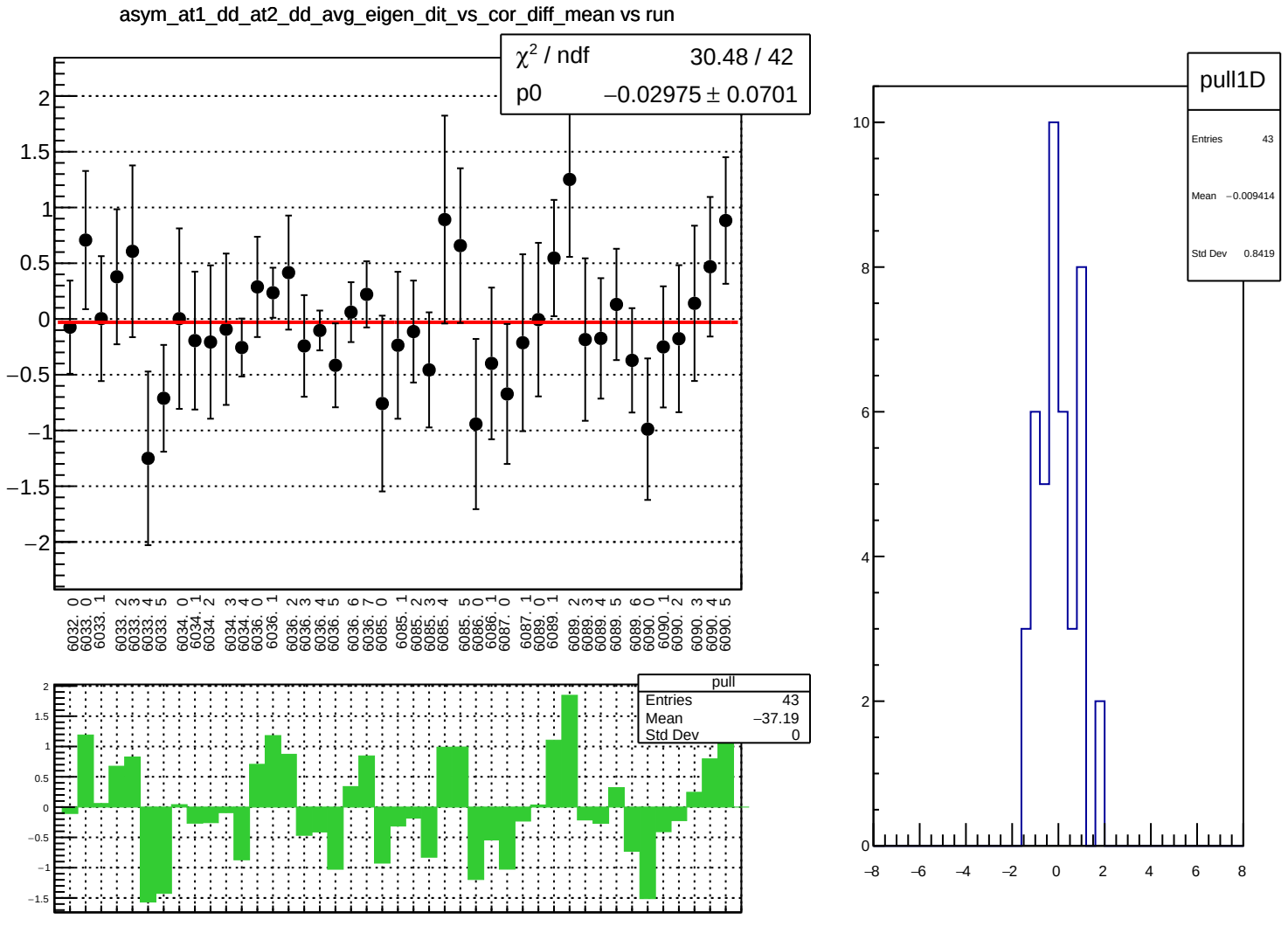

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.19
Std Dev 0
pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

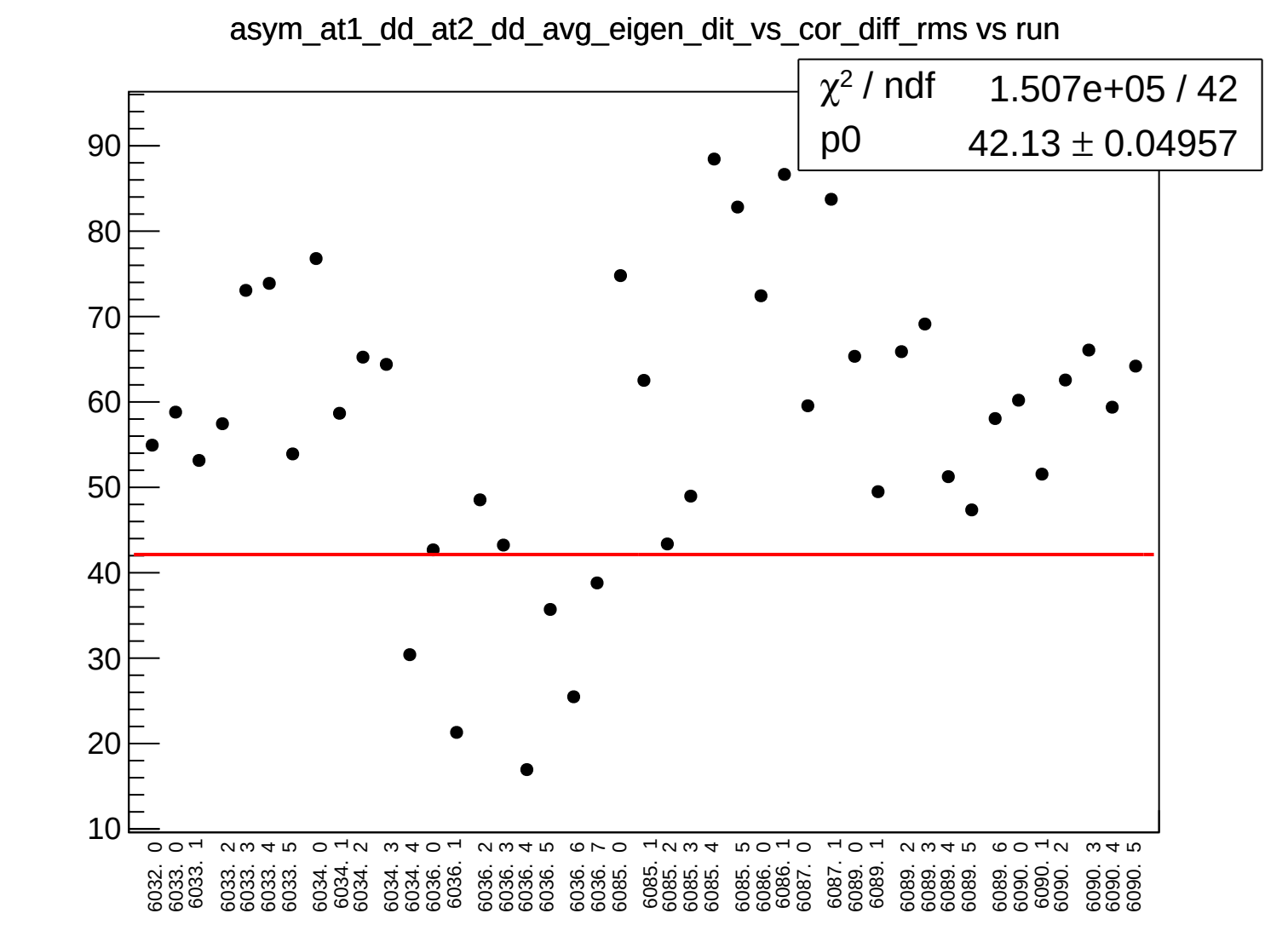

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

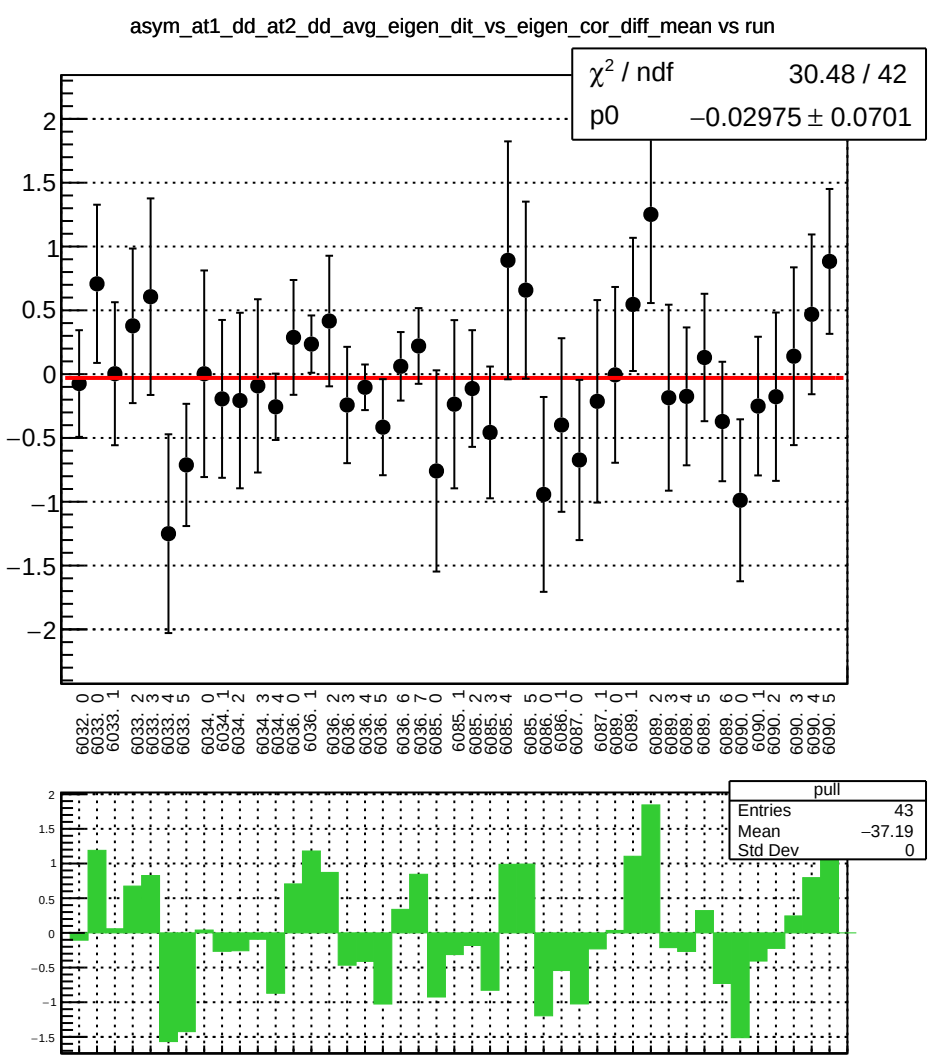

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.74 / 42
p0 −1.94e−06 ± 8.254e−06
pull
Entries 43
Mean −16.44
Std Dev 22.64

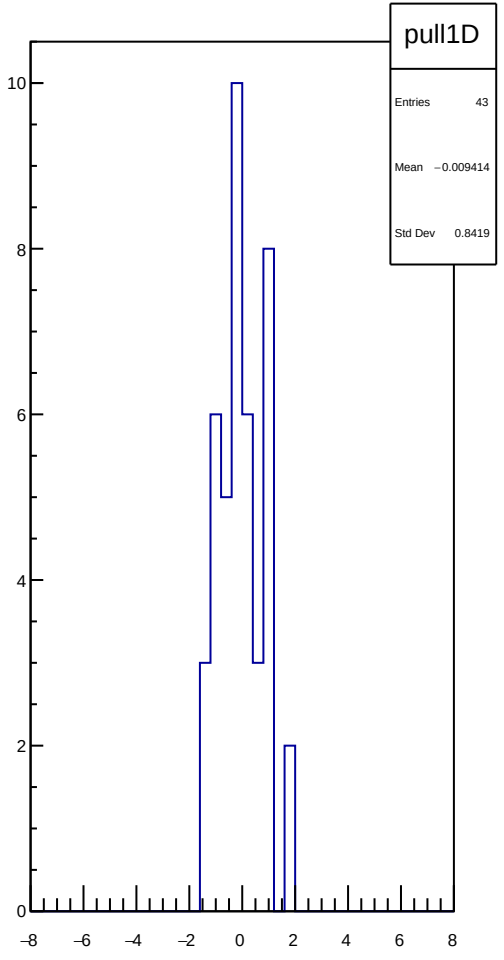

pull1D
Entries 43
Mean 0.009751
Std Dev 0.9614

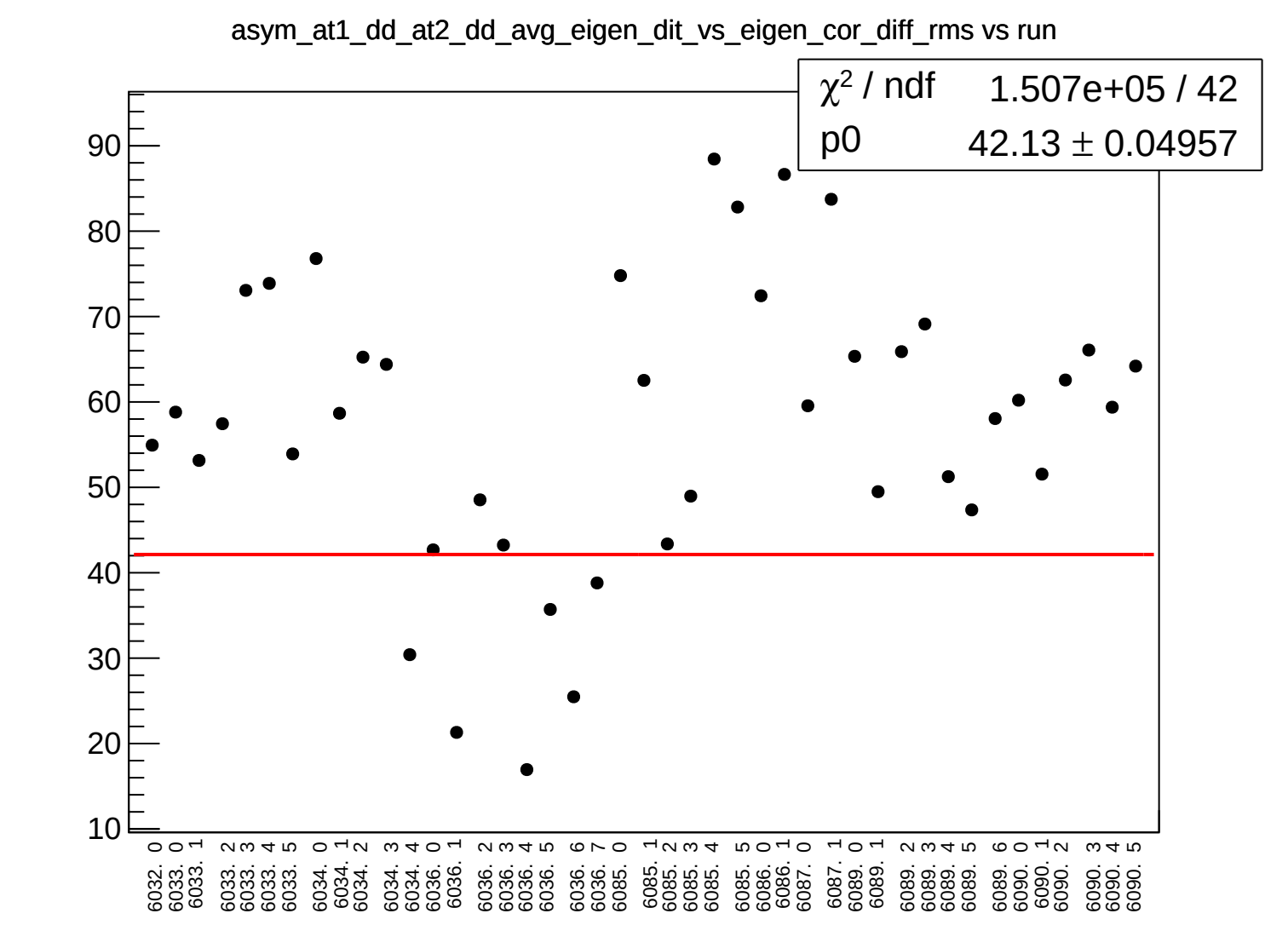

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4446 / 42
p0 0.00544 ± 5.836e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

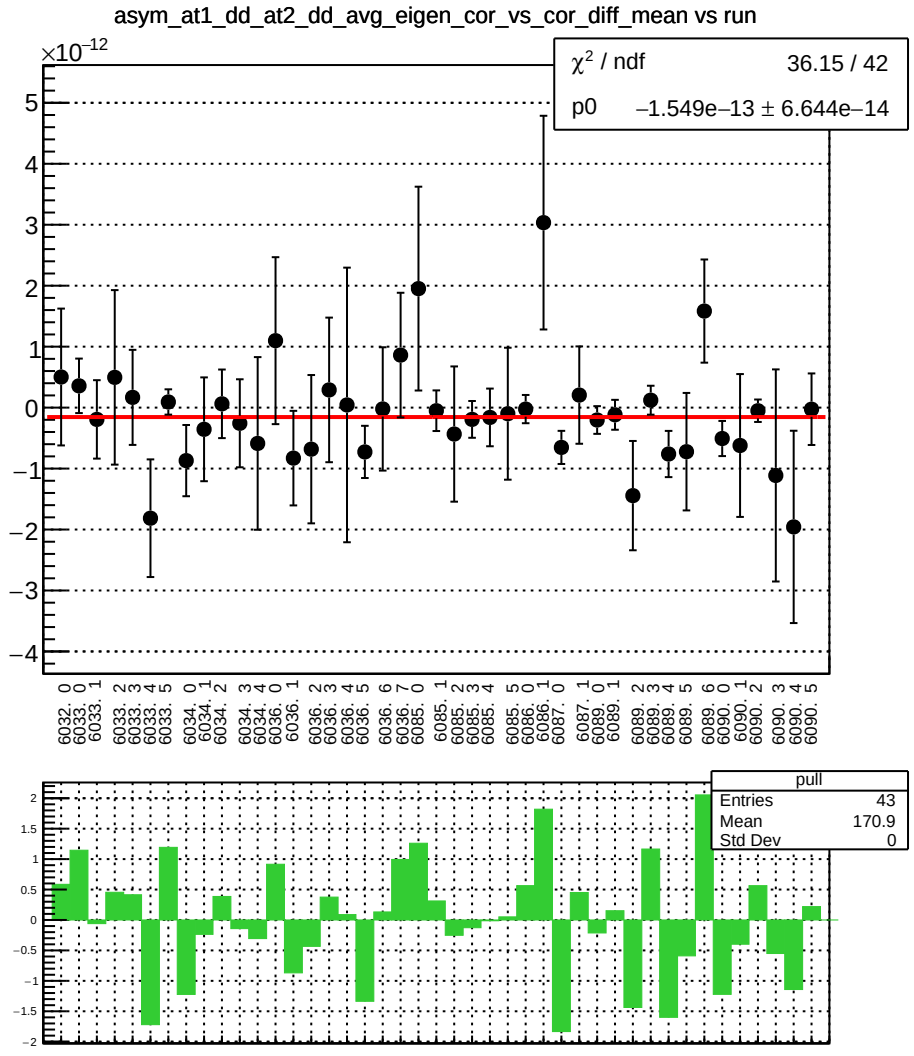

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.19
Std Dev 0
pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

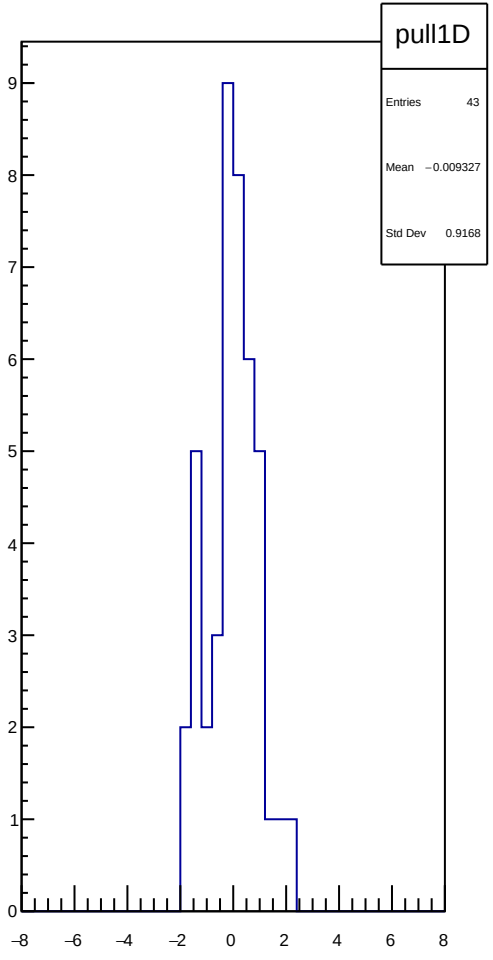

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

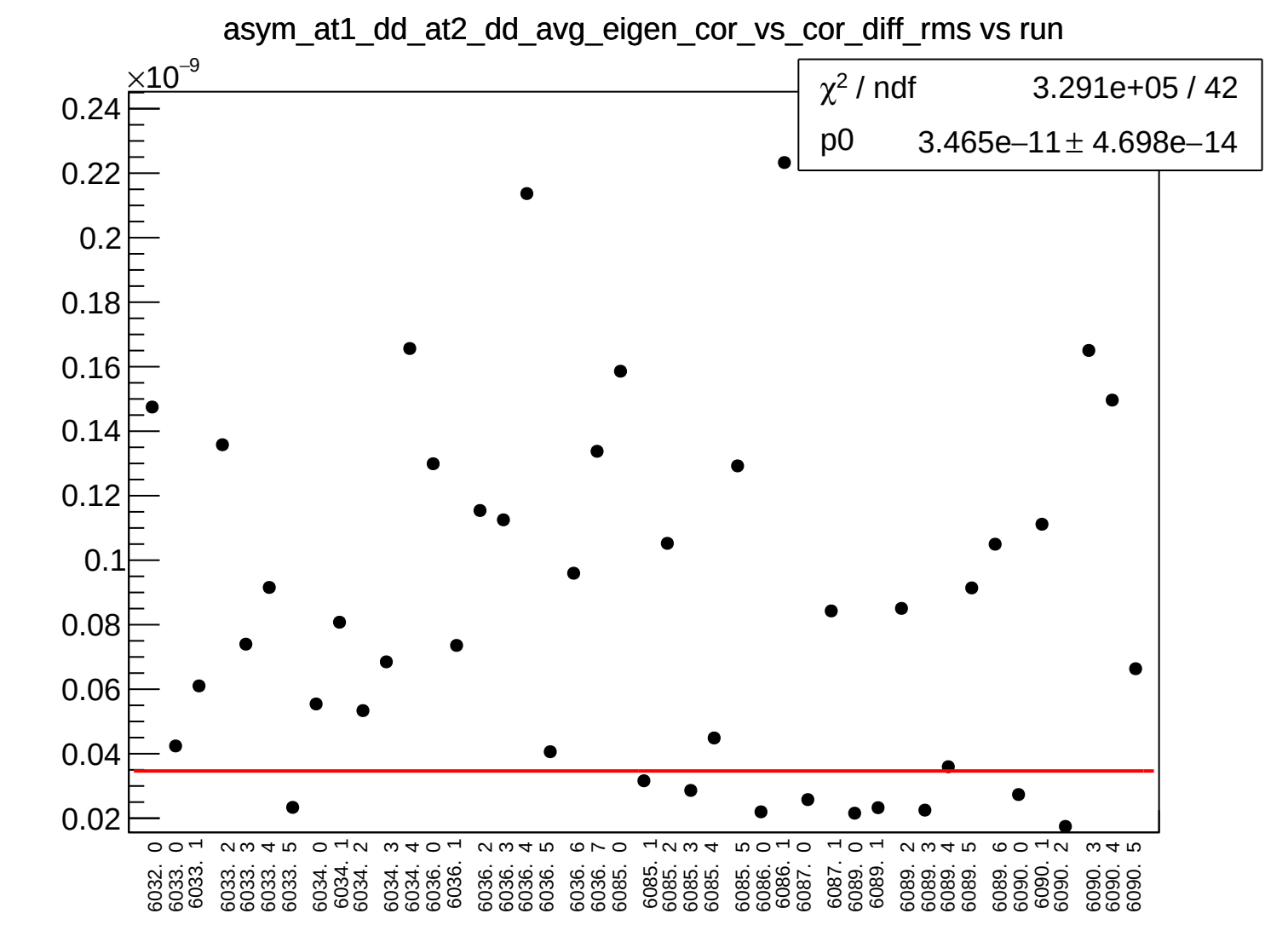

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.48 / 42
p0 −0.02975 ± 0.0701
pull
Entries 43
Mean −37.19
Std Dev 0

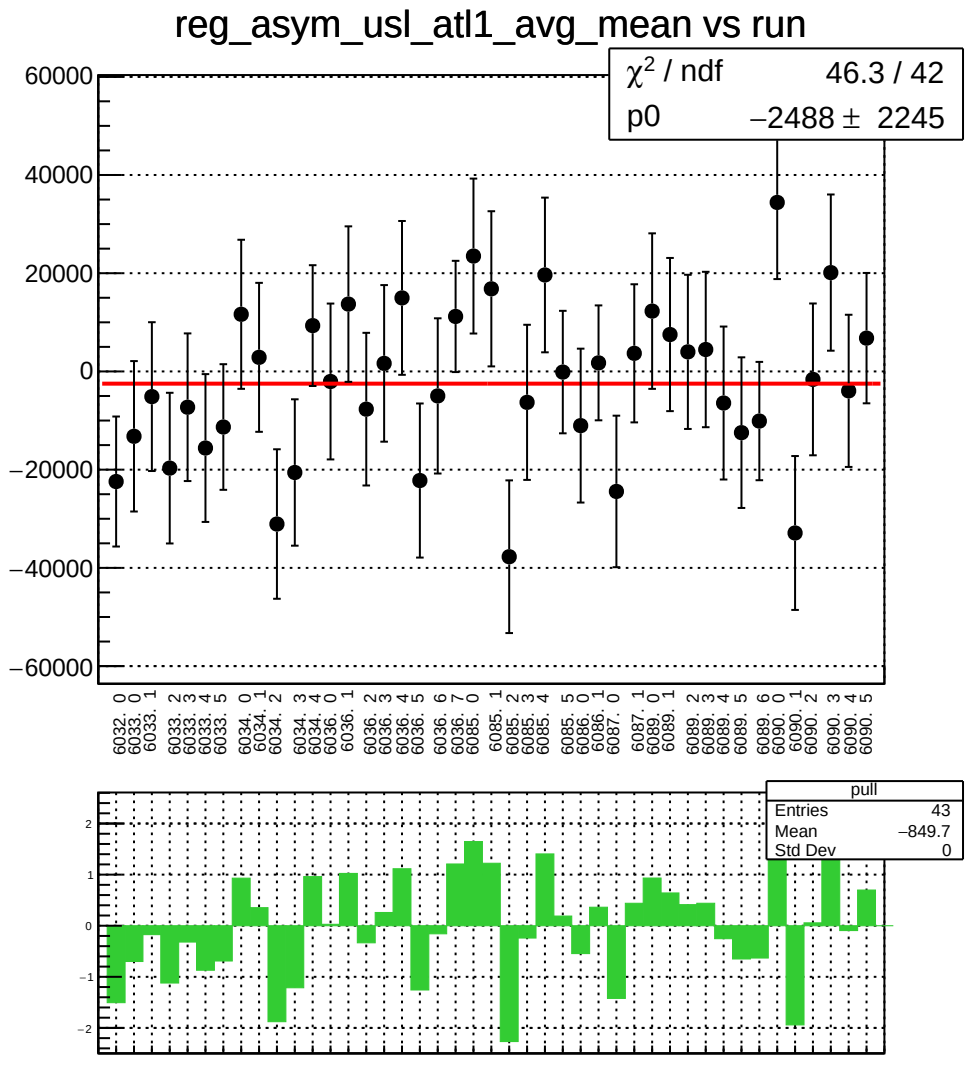

pull1D
Entries 43
Mean −0.009414
Std Dev 0.8419

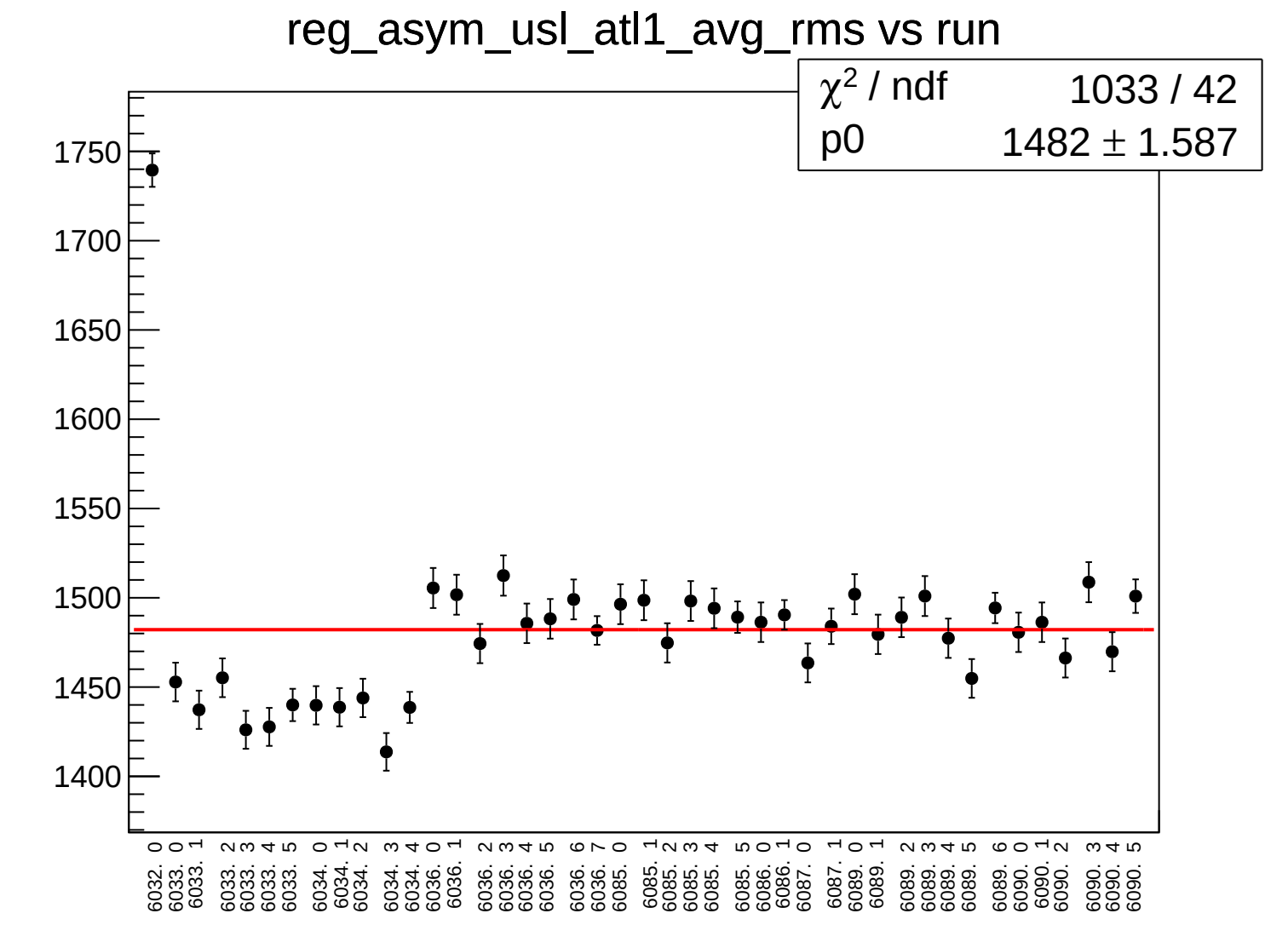

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 42
p0 42.13 ± 0.04957
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

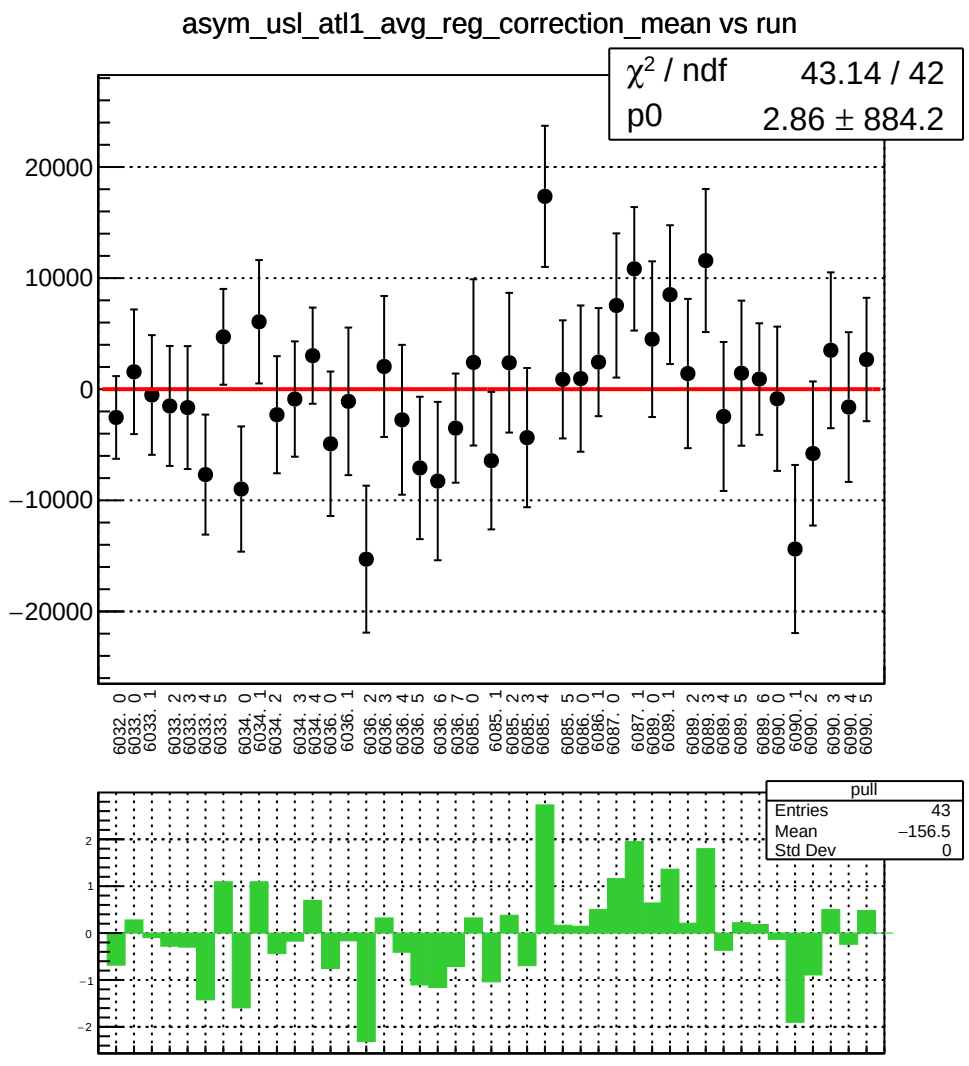

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.15 / 42
p0 −1.549e−13 ± 6.644e−14
pull
Entries 43
Mean 170.9
Std Dev 0

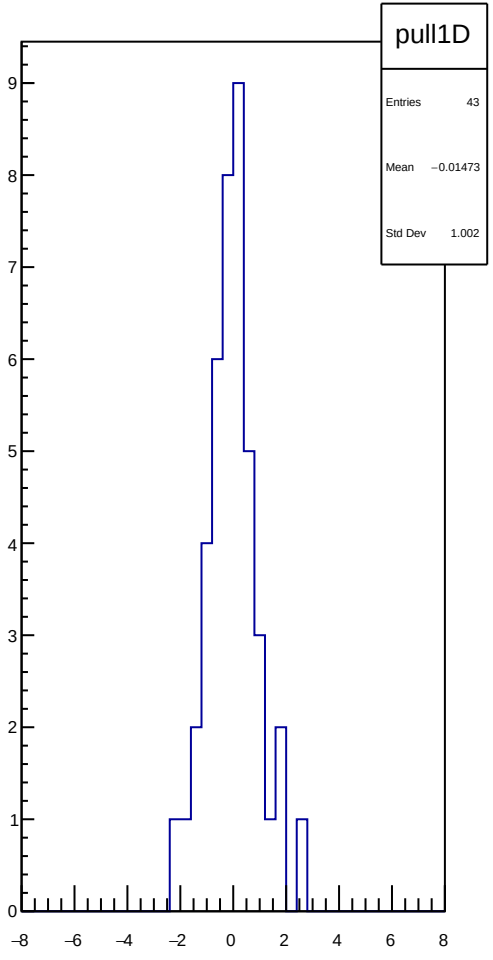

pull1D
Entries 43
Mean −0.009327
Std Dev 0.9168

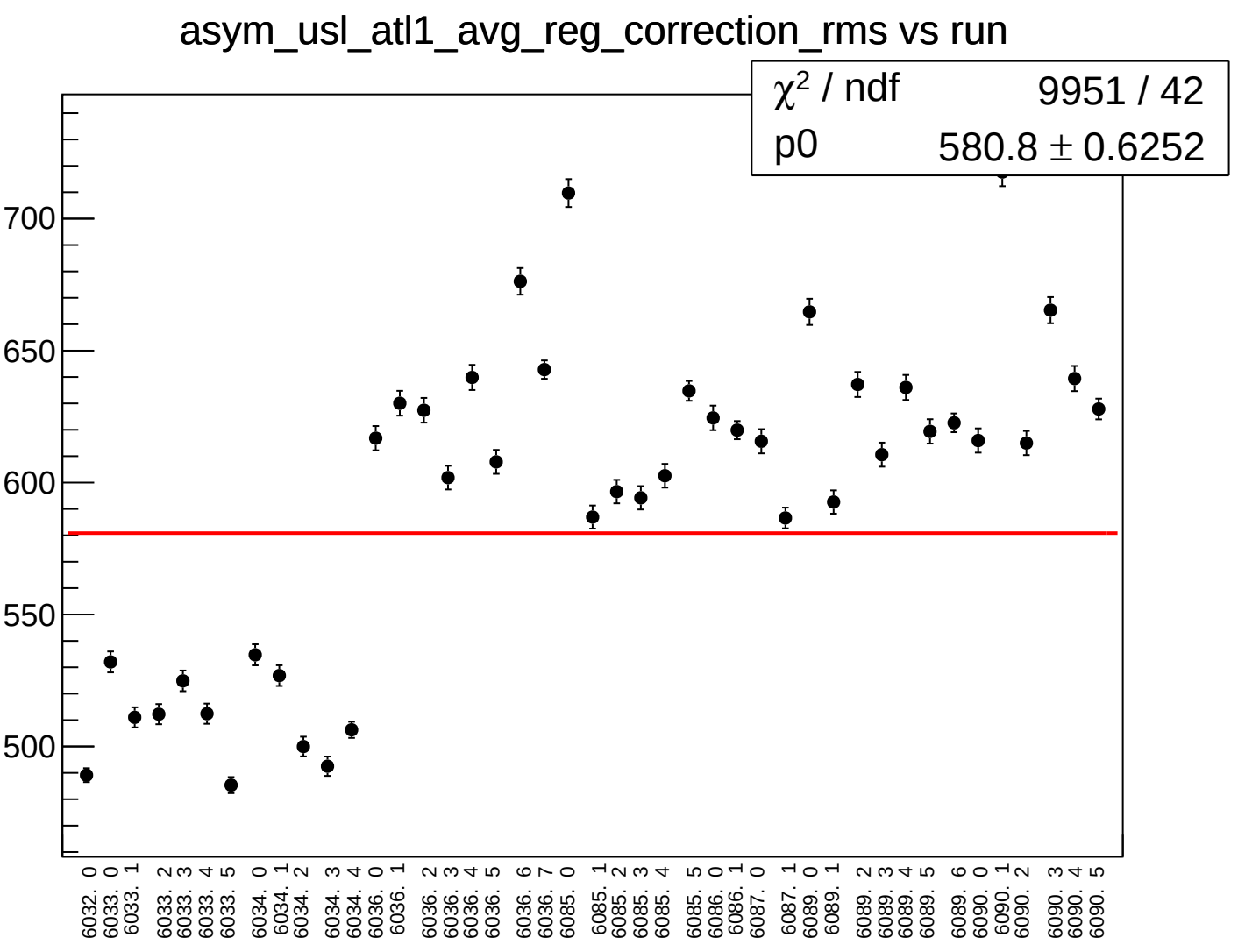

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.291e+05 / 42
p0 3.465e−11 ± 4.698e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

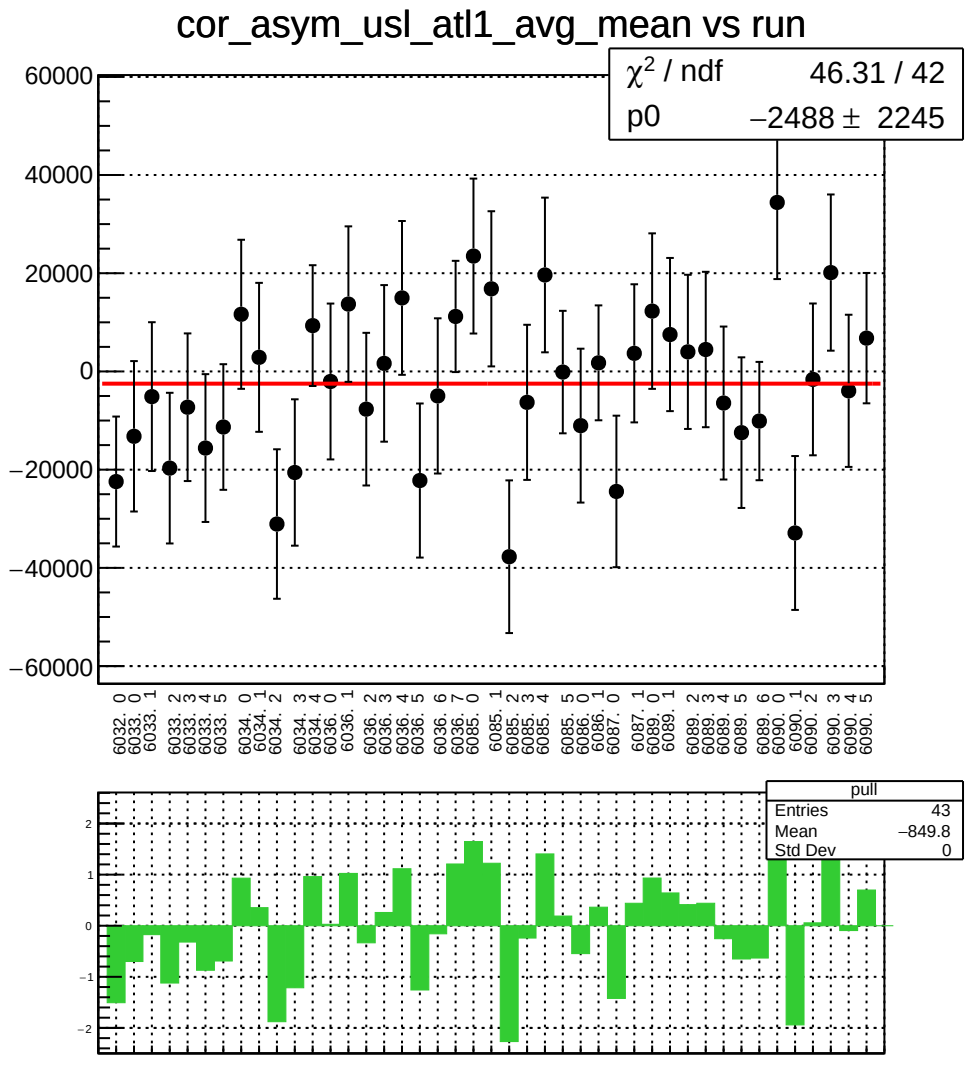

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 46.3 / 42
p0 −2488 ± 2245
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −849.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003718
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

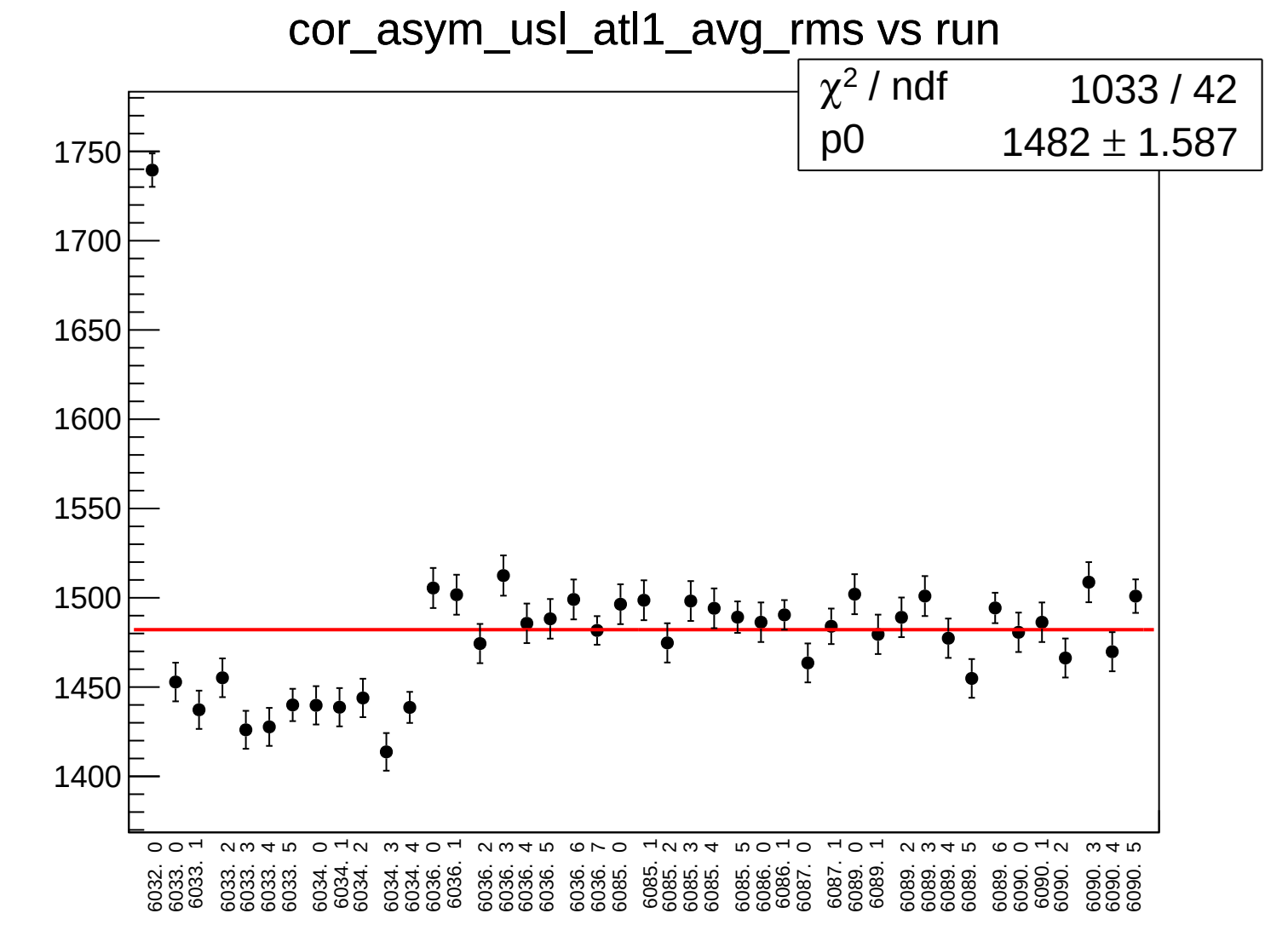

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 1033 / 42
p0 1482 ± 1.587
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

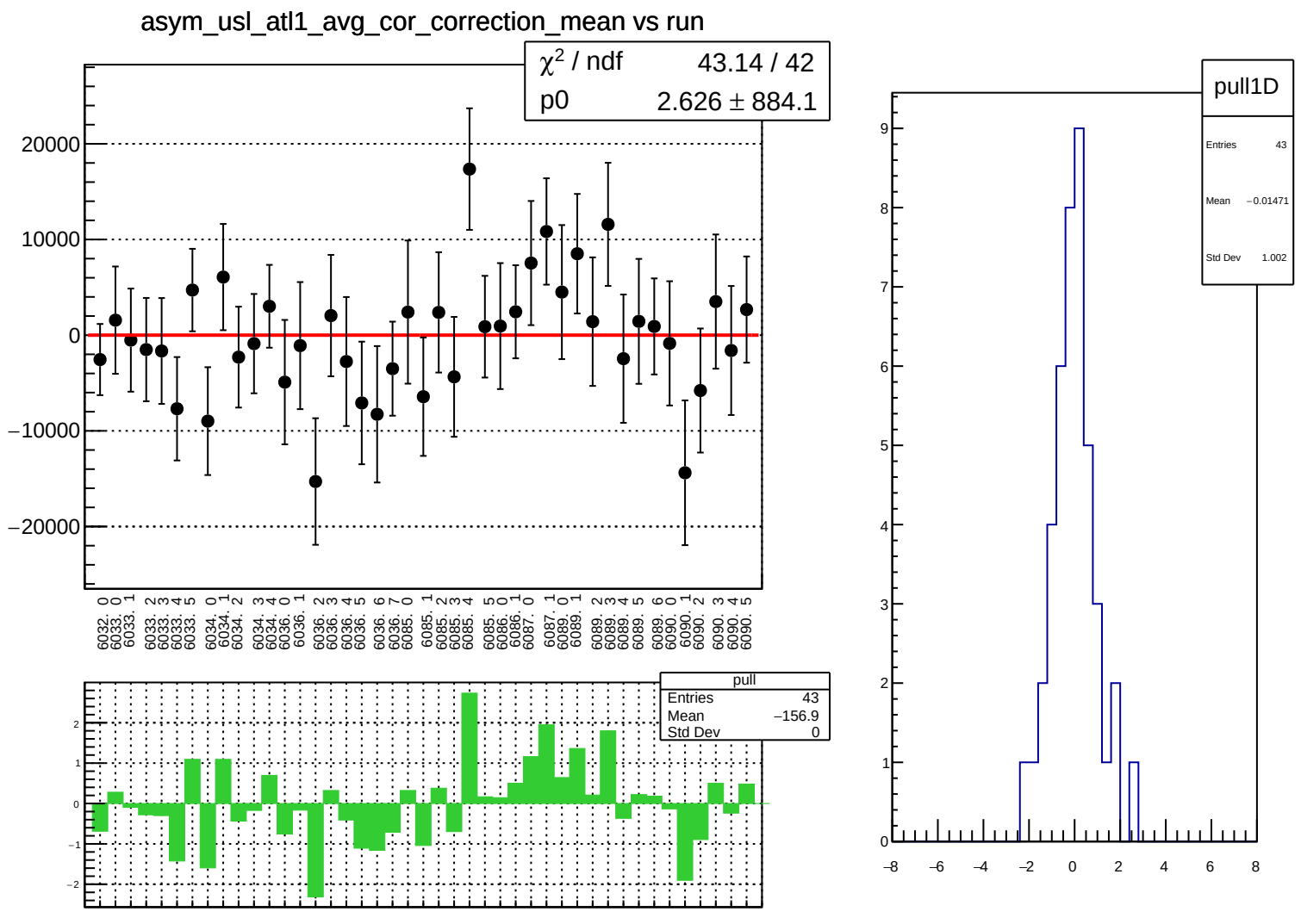

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 43.14 / 42
p0 2.86 ± 884.2
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −156.5
Std Dev 0
2
1
0
−1
−2

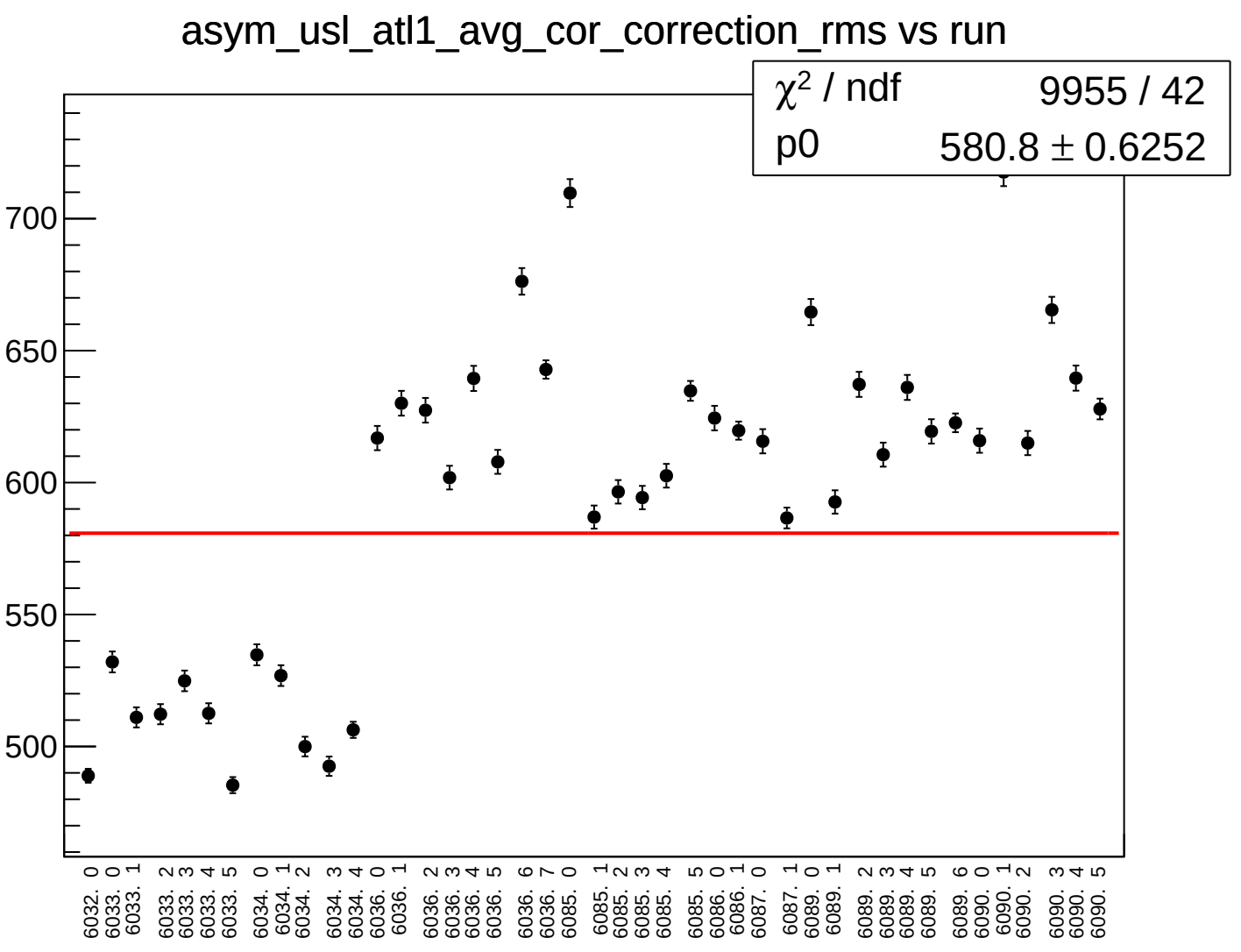

pull1D
Entries 43
Mean −0.01473
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

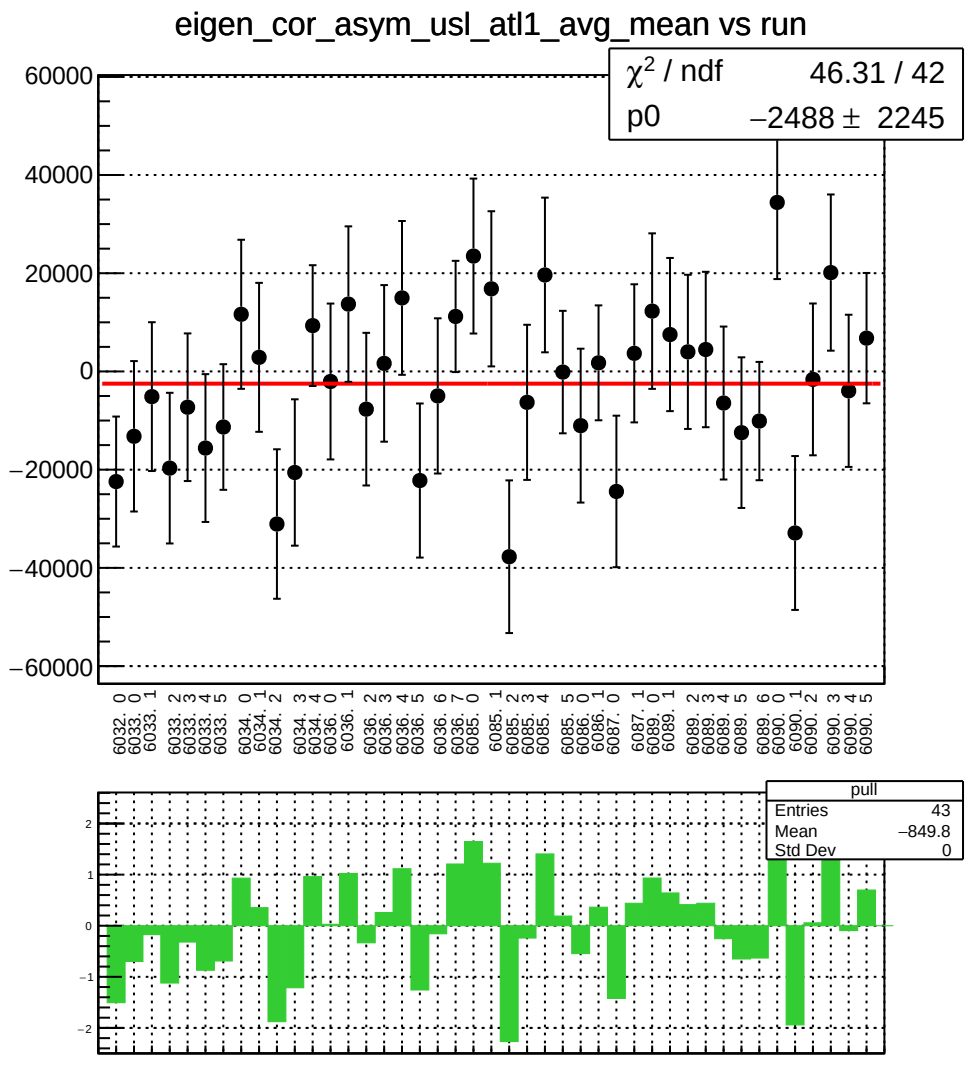

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 9951 / 42
p0 580.8 ± 0.6252
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

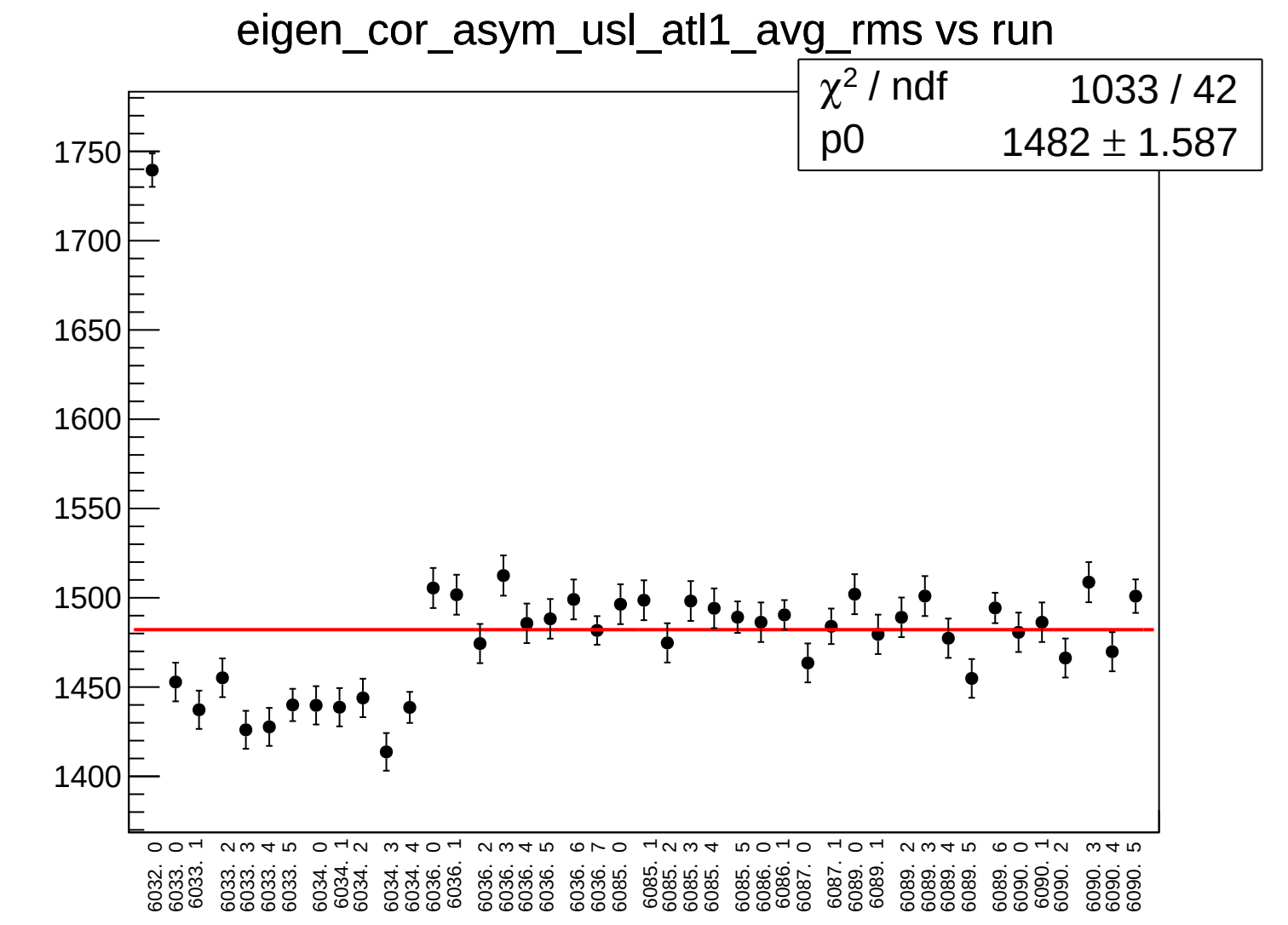

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 46.31 / 42
p0 −2488 ± 2245
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −849.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003719
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

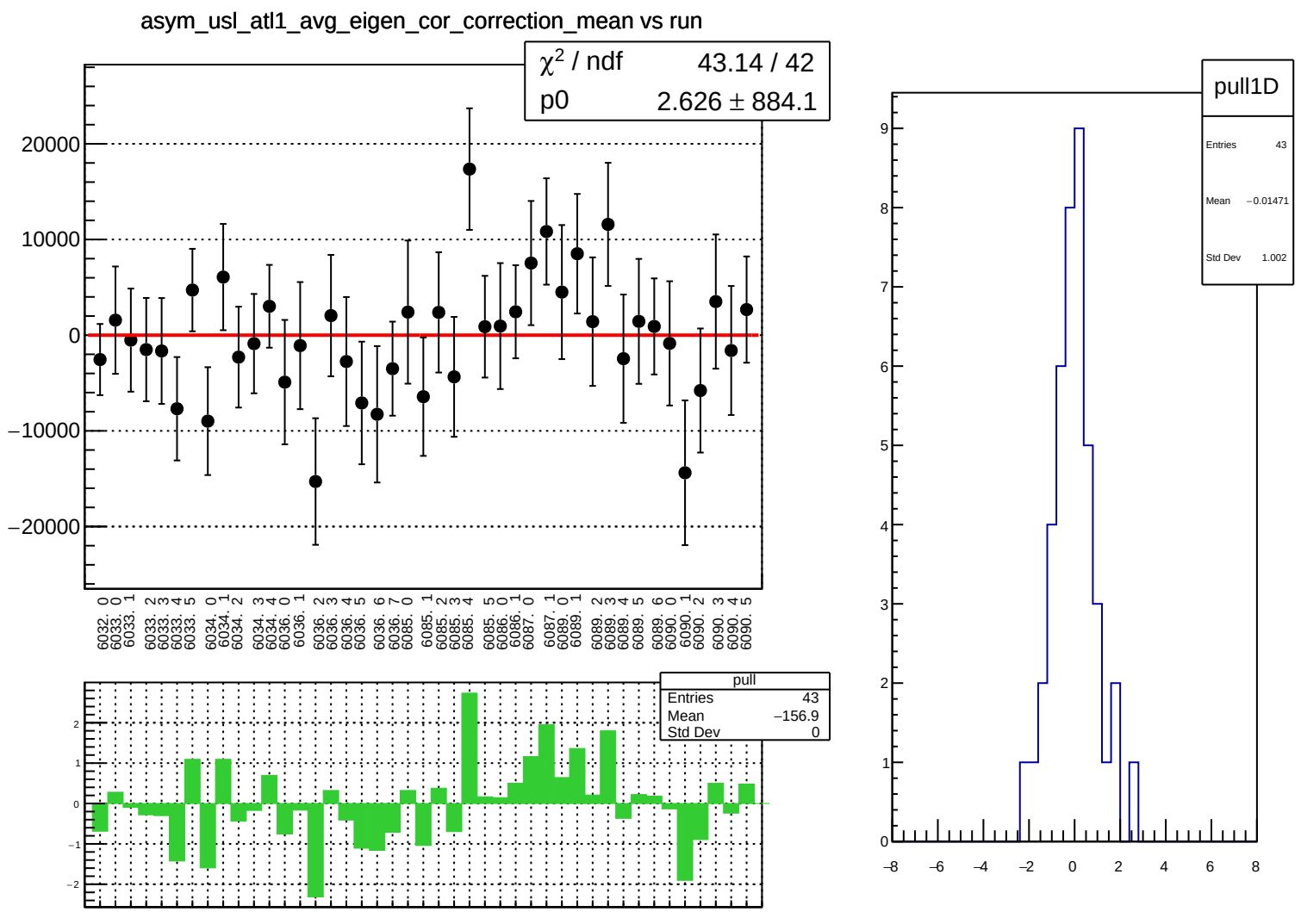

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 1033 / 42
p0 1482 ± 1.587
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

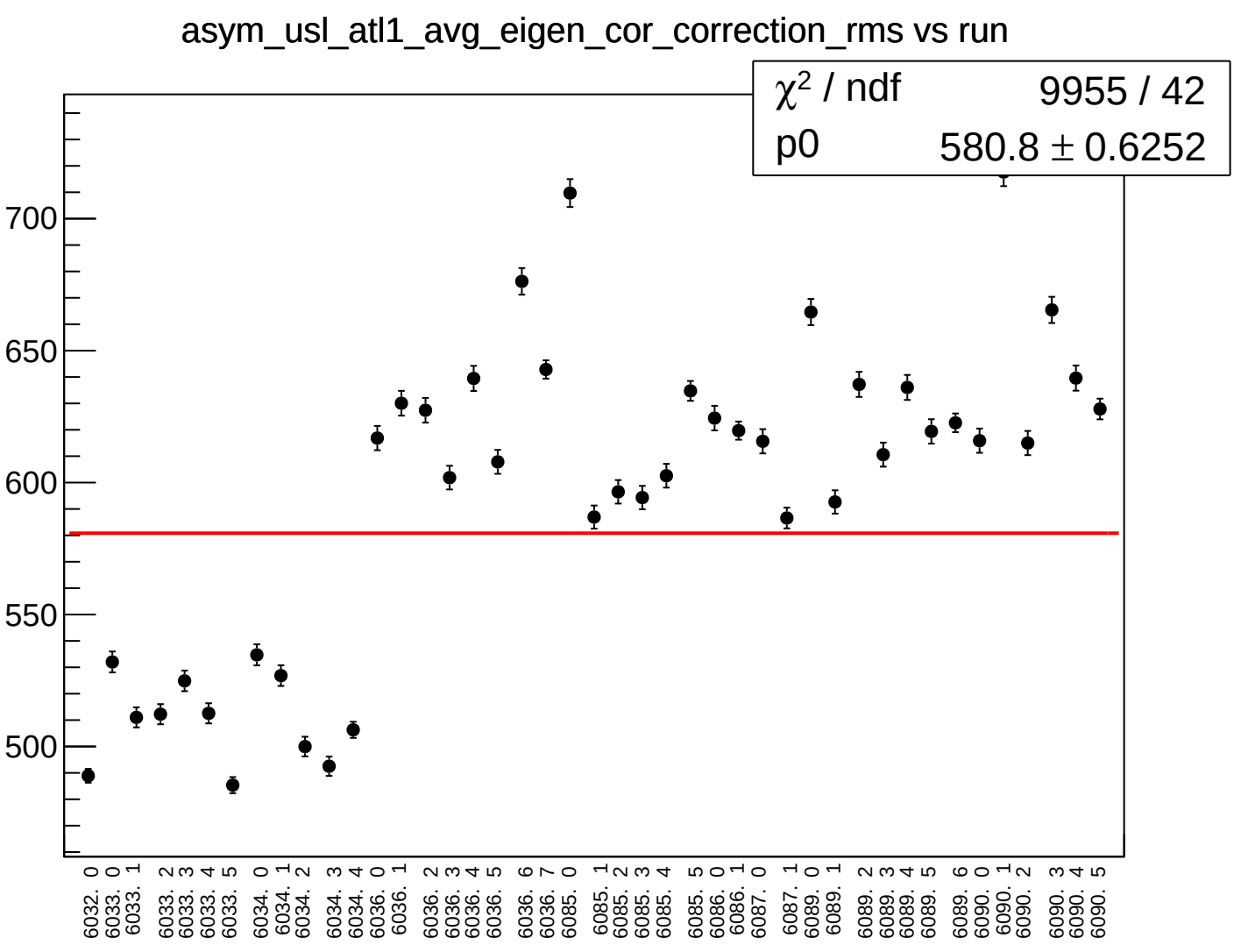

asym_usl_atl1_avg_cor_correction_mean vs run
χ^2 / ndf 43.14 / 42
p0 2.626 ± 884.1
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −156.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01471
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

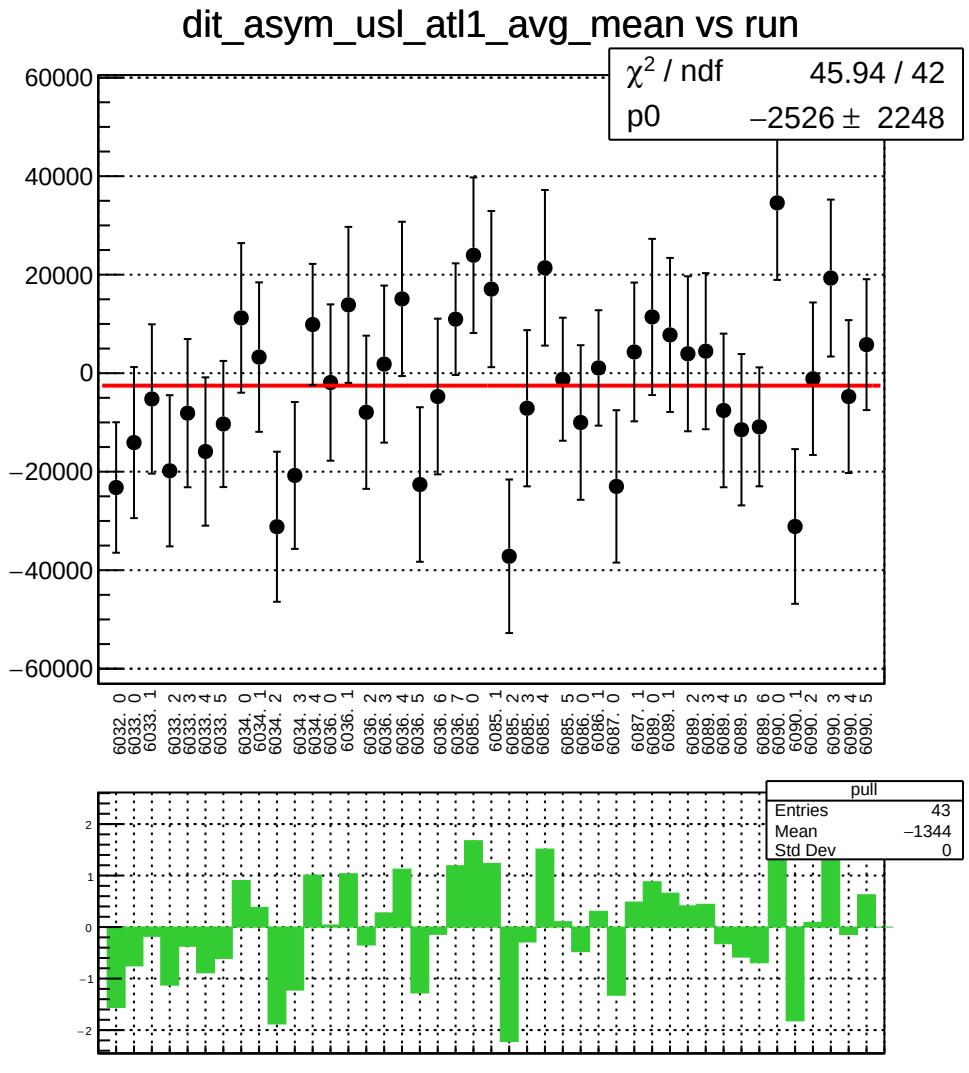

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 9955 / 42
p0 580.8 ± 0.6252
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

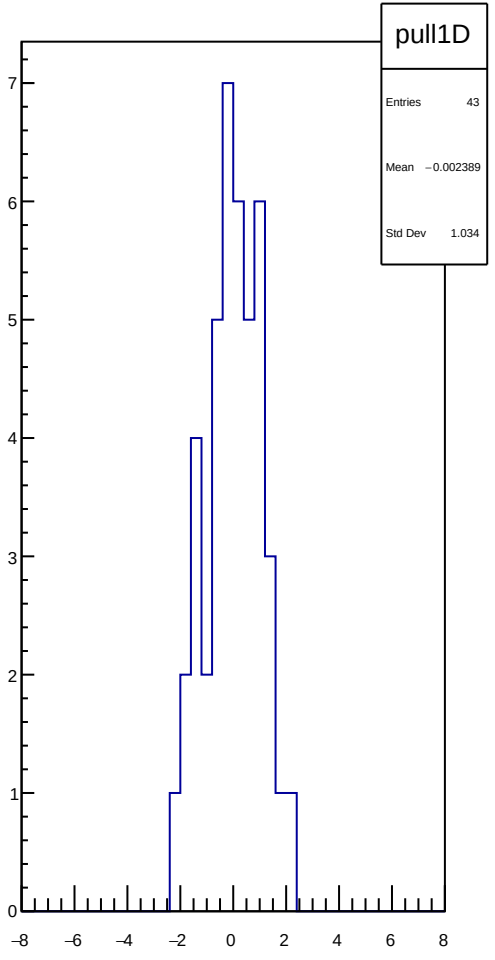

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 46.31 / 42
p0 −2488 ± 2245
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −849.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003719
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

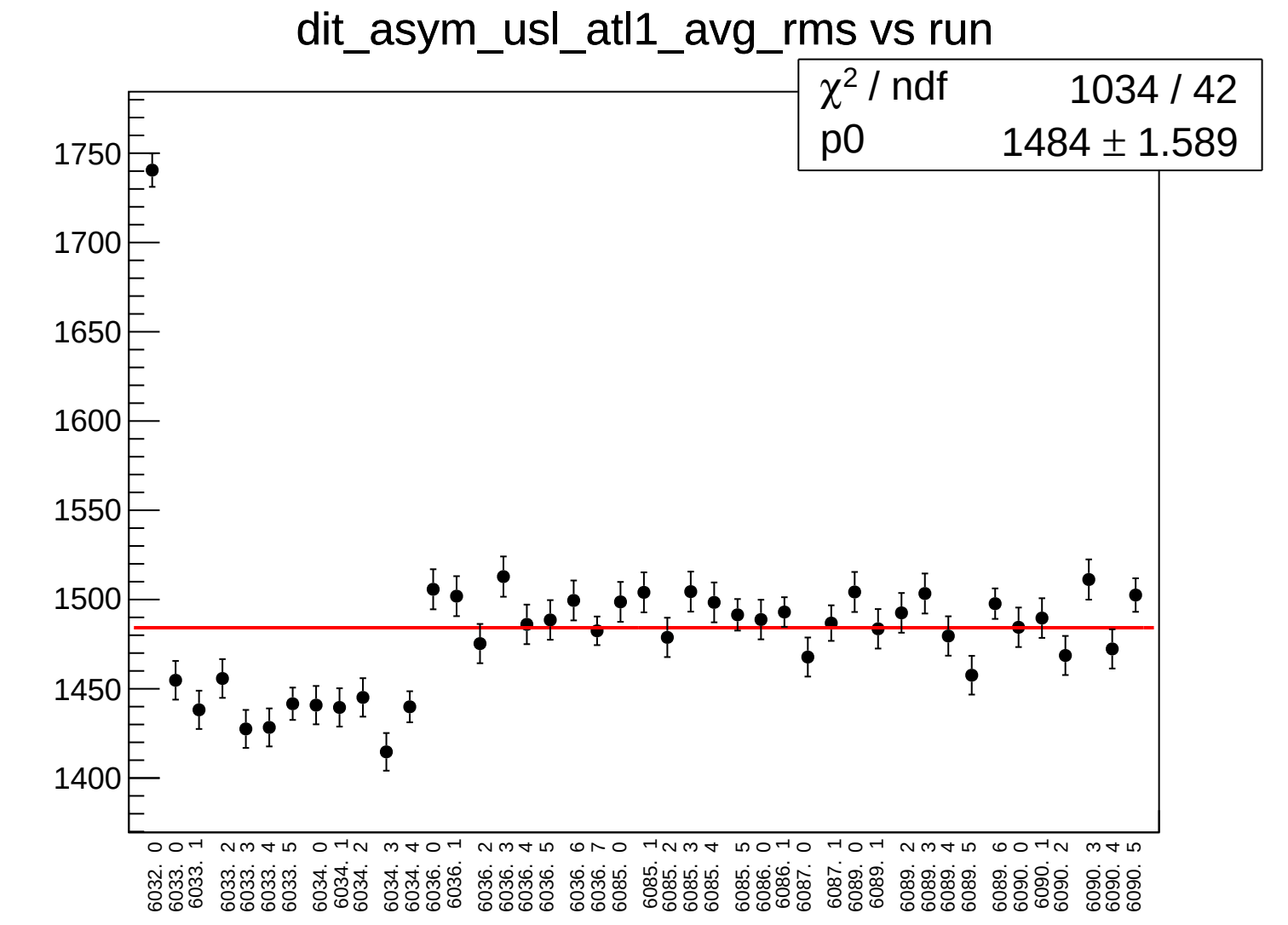

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 1033 / 42
p0 1482 ± 1.587
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

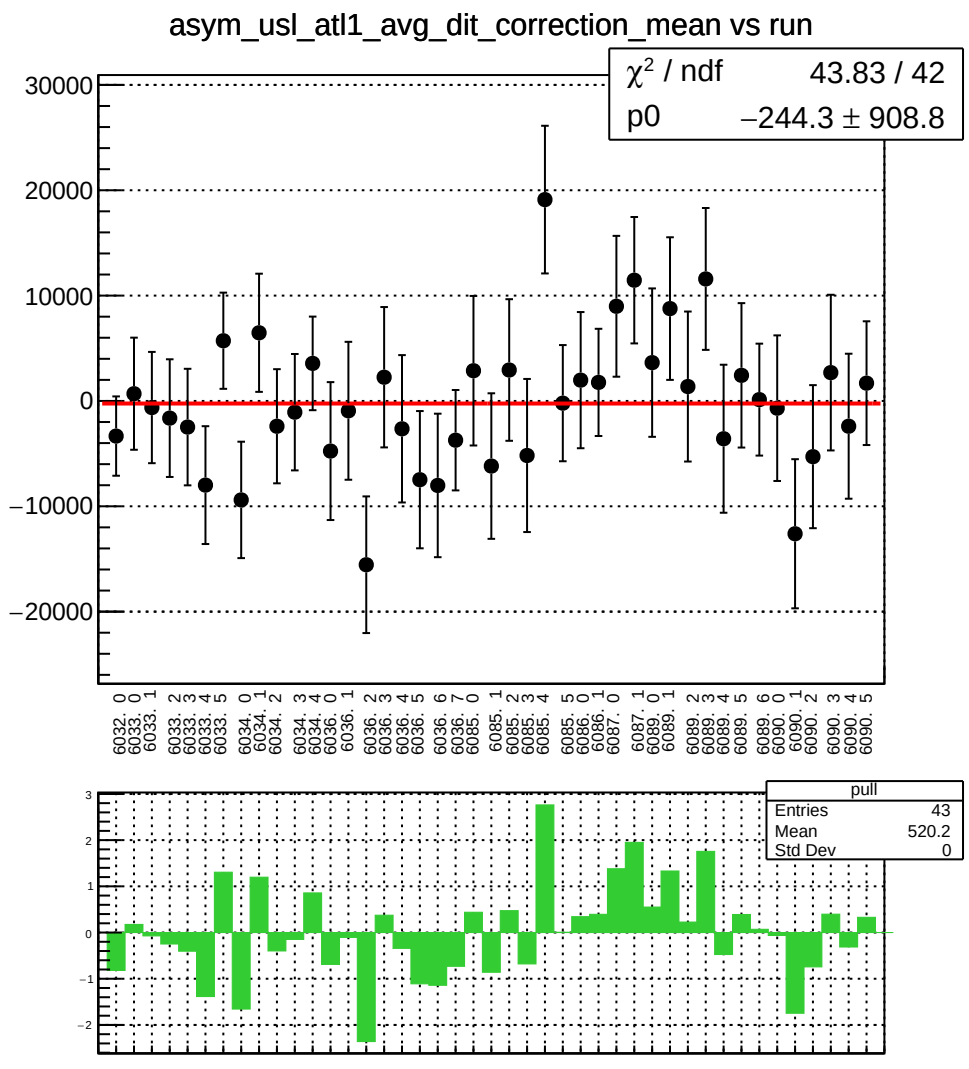

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 43.14 / 42
p0 2.626 ± 884.1
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −156.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01471
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

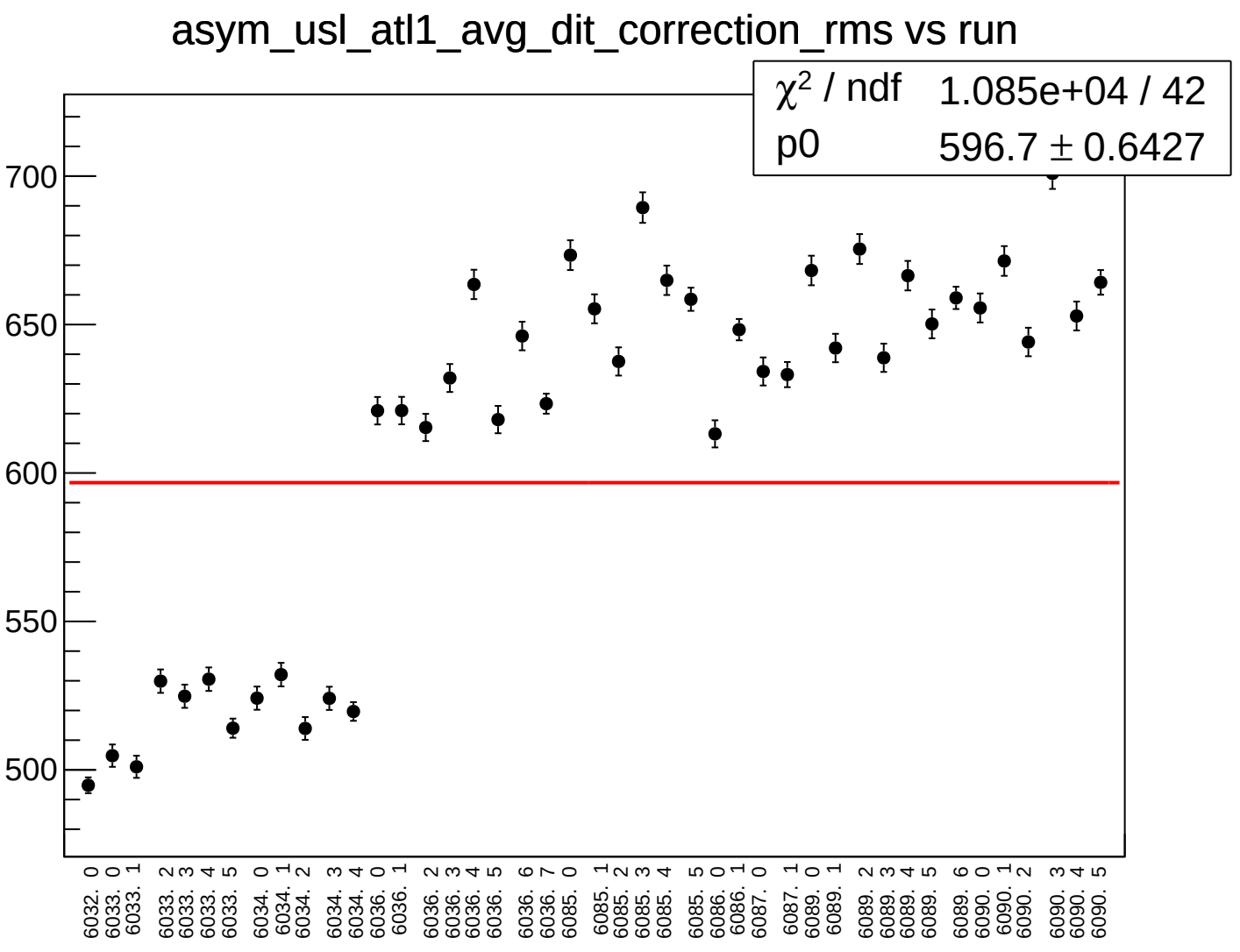

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 9955 / 42
p0 580.8 ± 0.6252
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

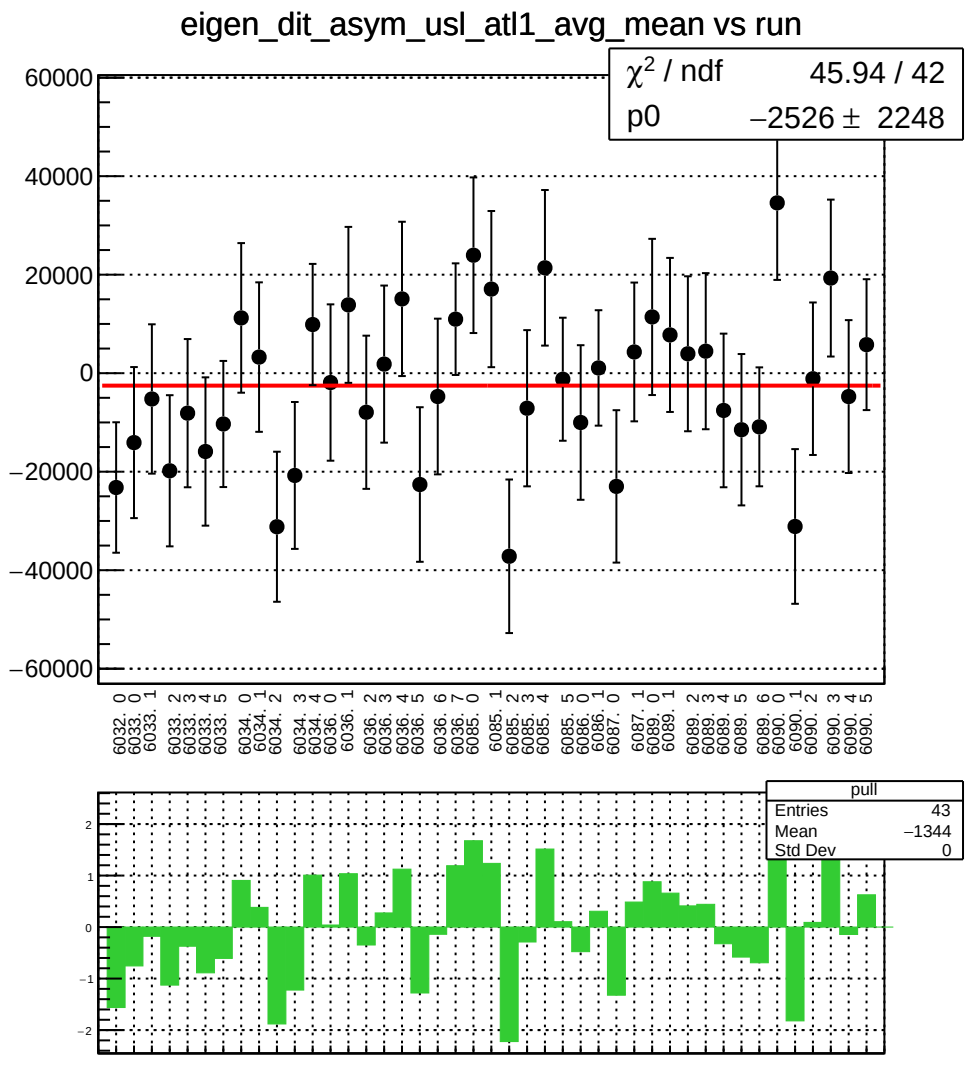

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 45.94 / 42
p0 −2526 ± 2248
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1344
Std Dev 0
2
1
0
−1
−2

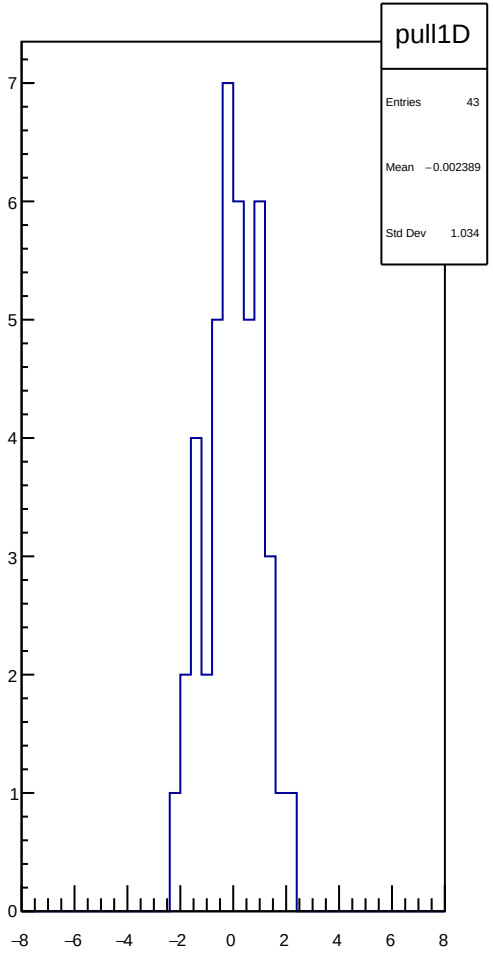

pull1D
Entries 43
Mean −0.002389
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

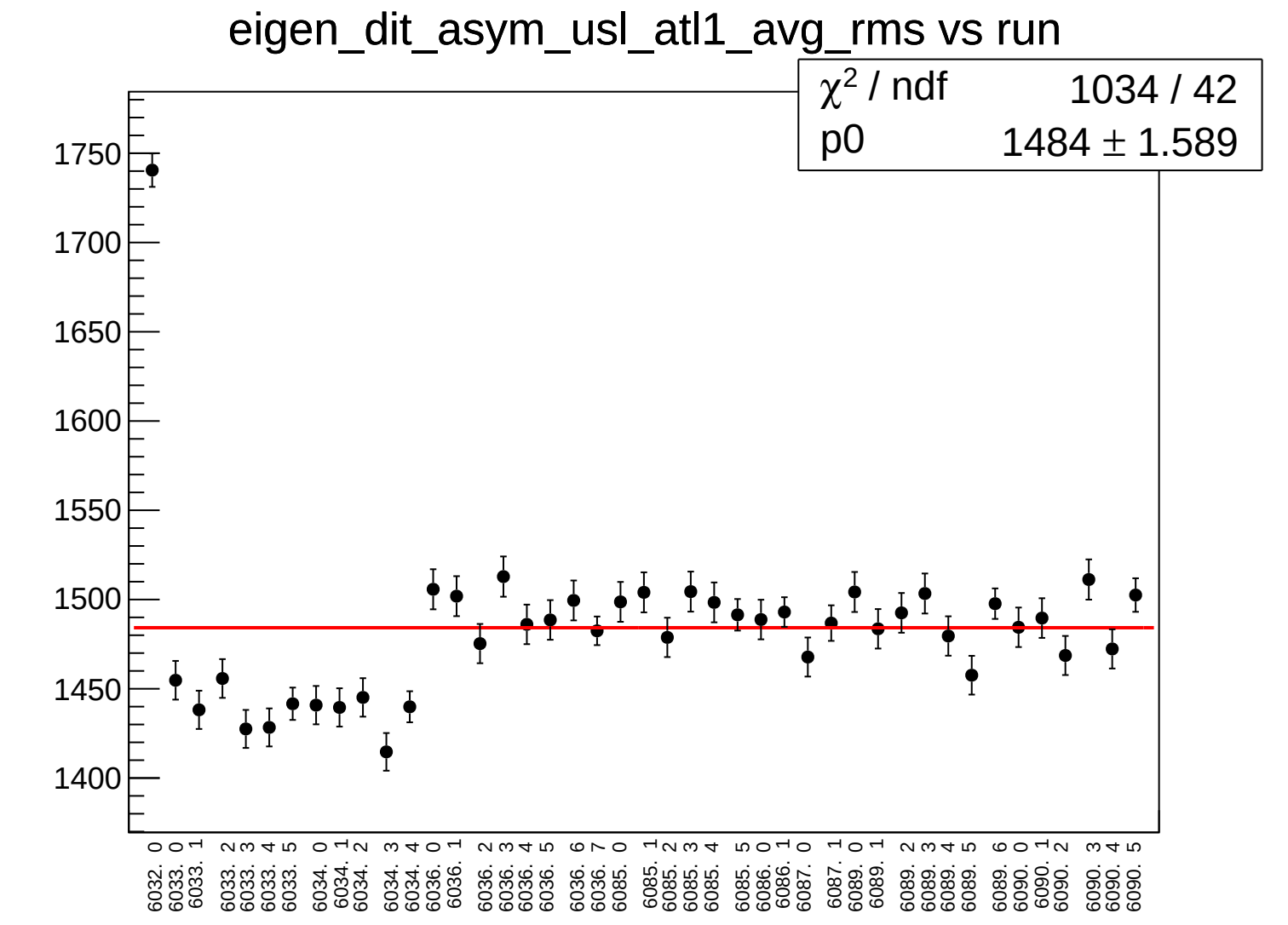

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1034 / 42
p0 1484 ± 1.589
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

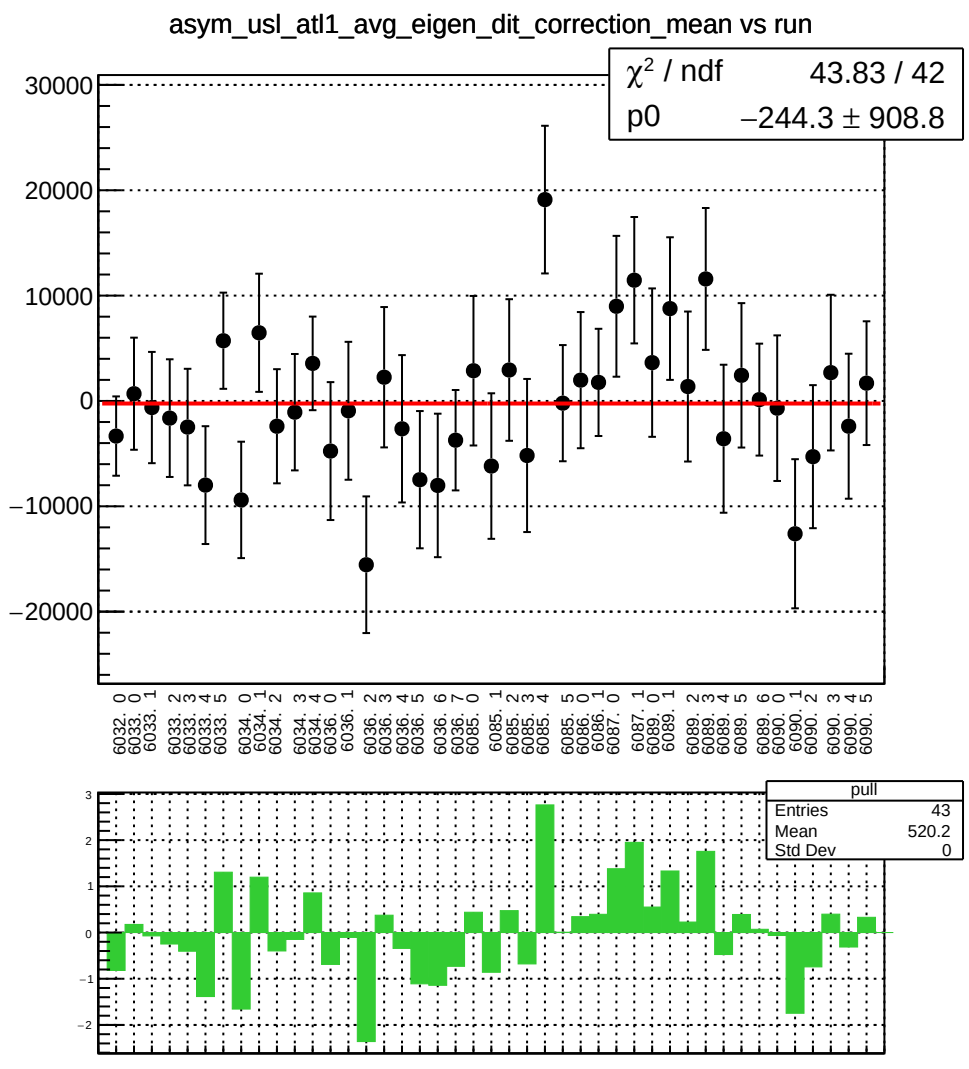

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 43.83 / 42
p0 −244.3 ± 908.8
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 520.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005104
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

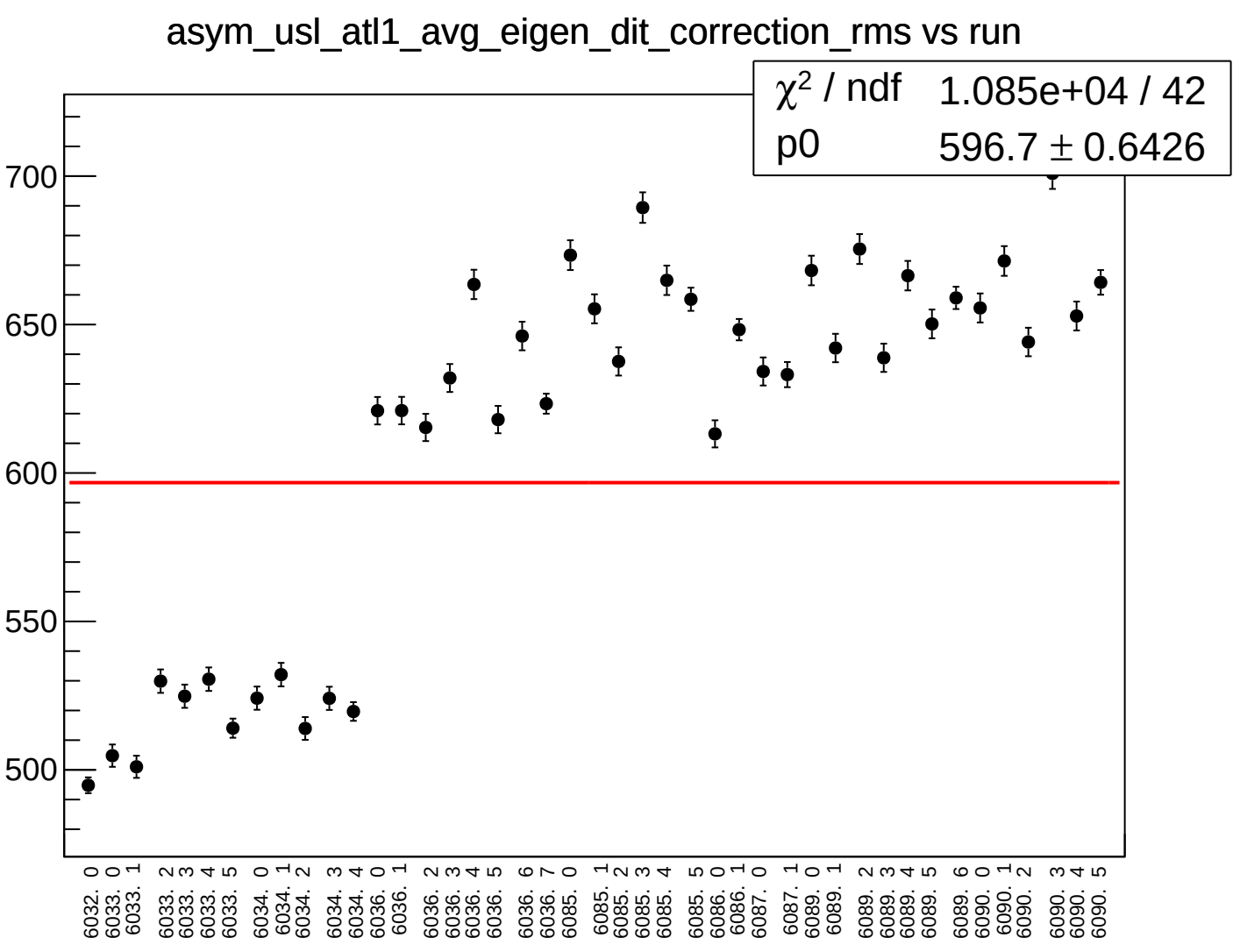

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 42
p0 596.7 ± 0.6427
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

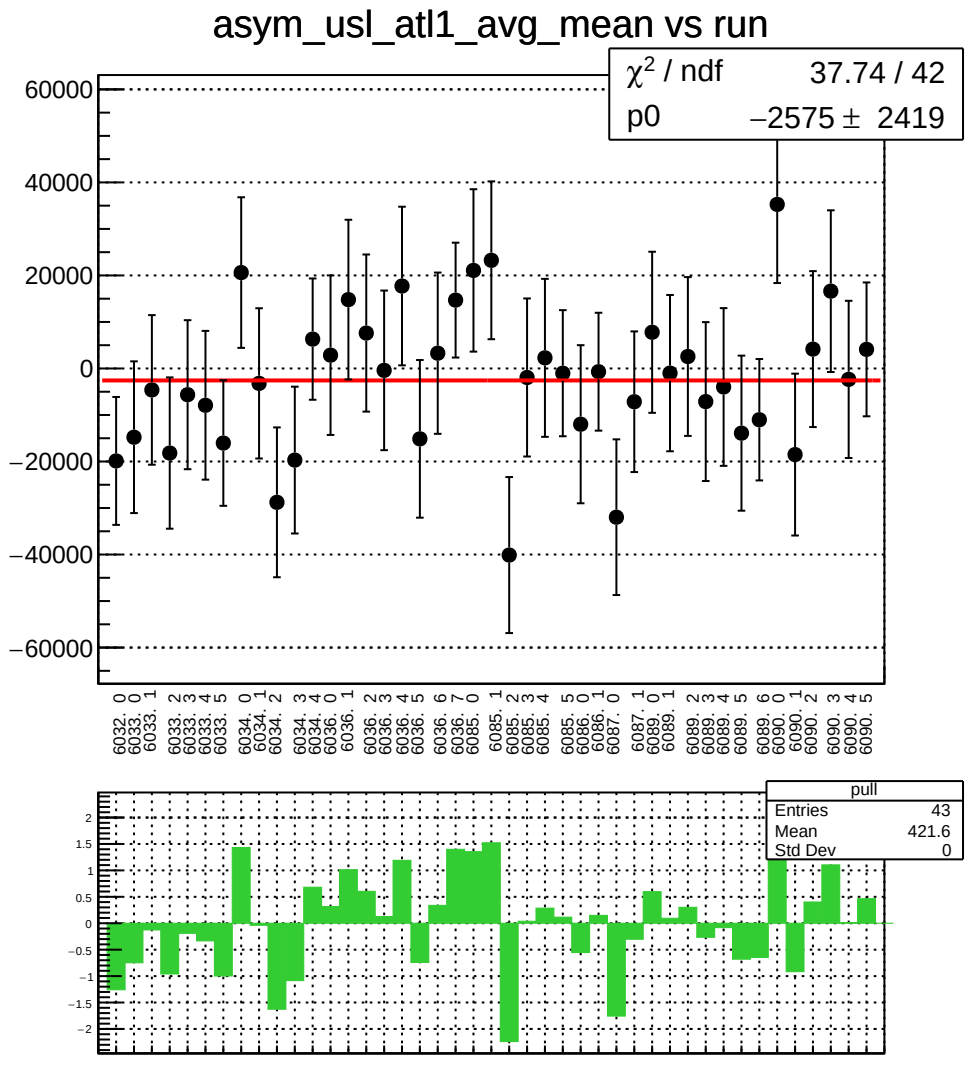

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 45.94 / 42
p0 −2526 ± 2248
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1344
Std Dev 0
2
1
0
−1
−2

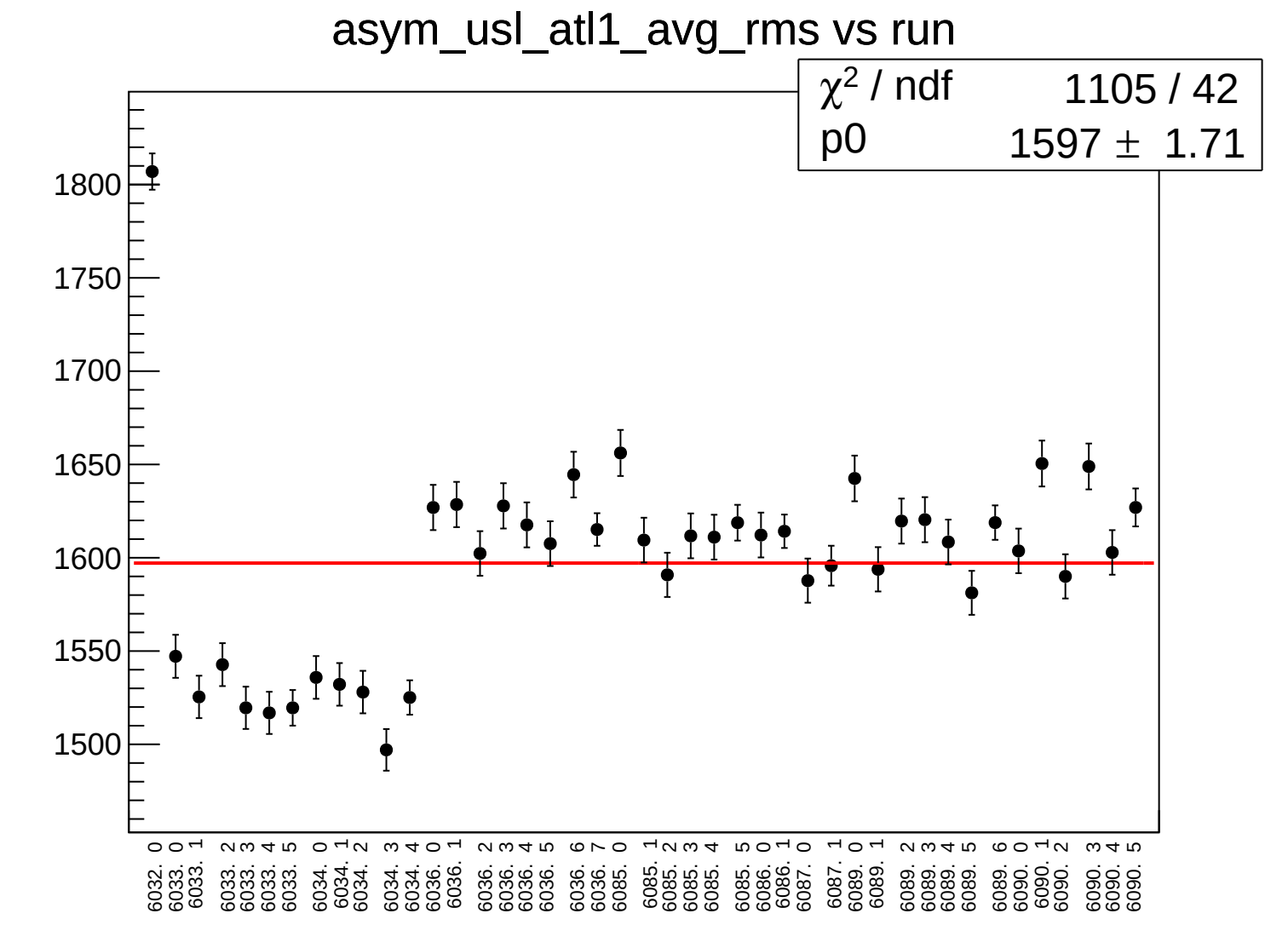

pull1D
Entries 43
Mean −0.002389
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

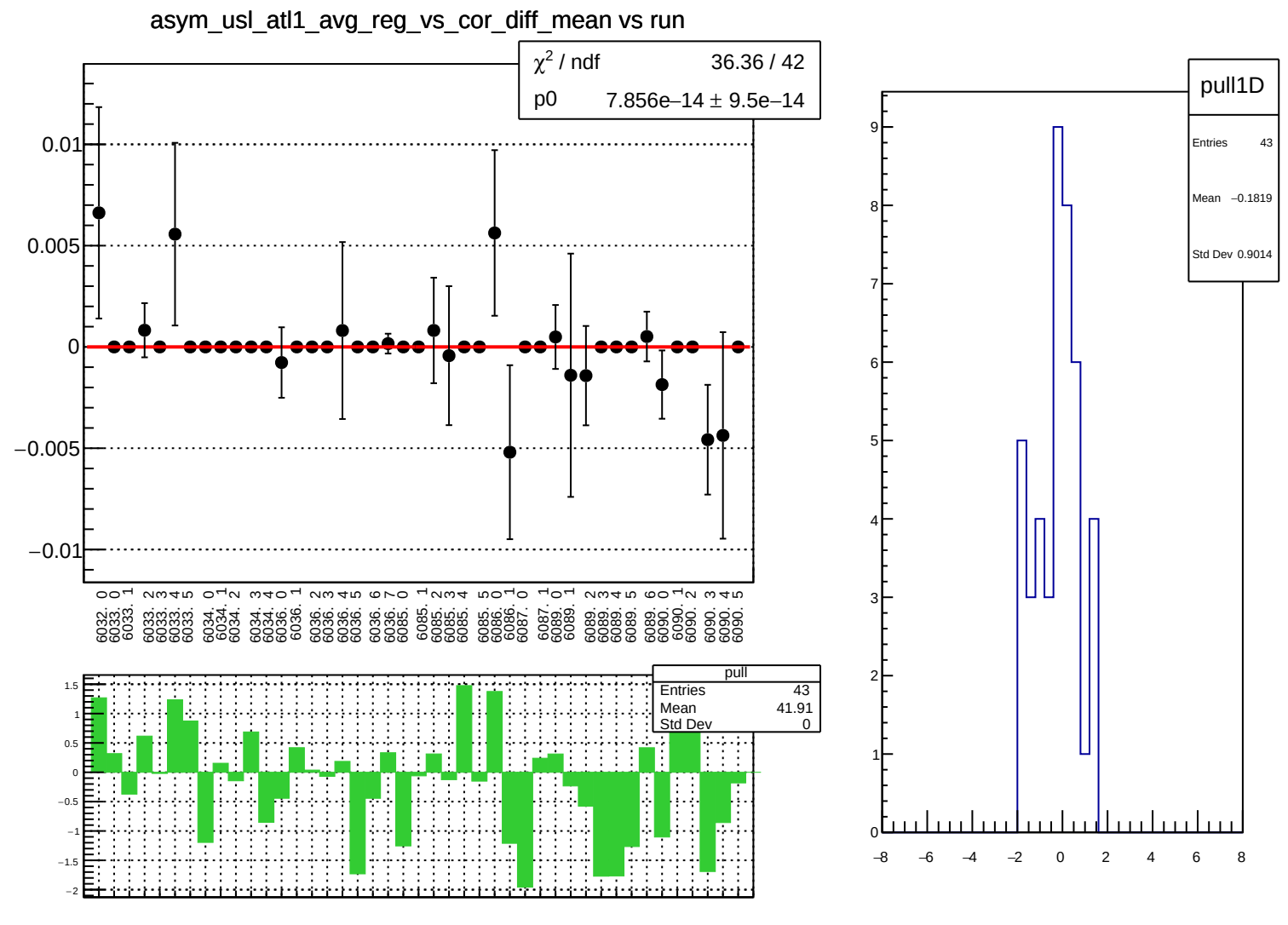

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1034 / 42
p0 1484 ± 1.589
1750
1700
1650
1600
1550
1500
1450
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

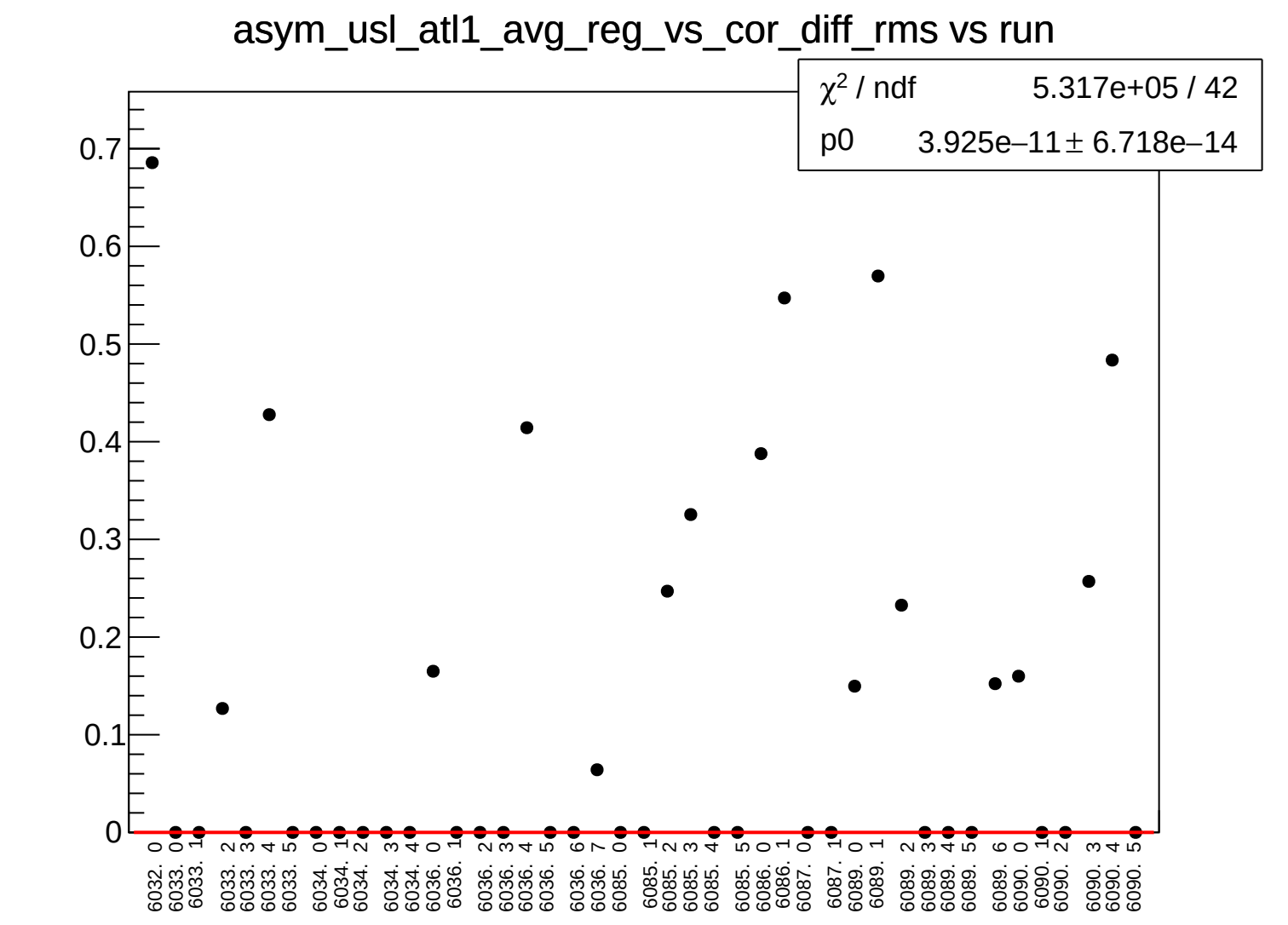

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 43.83 / 42
p0 −244.3 ± 908.8
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 520.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005104
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

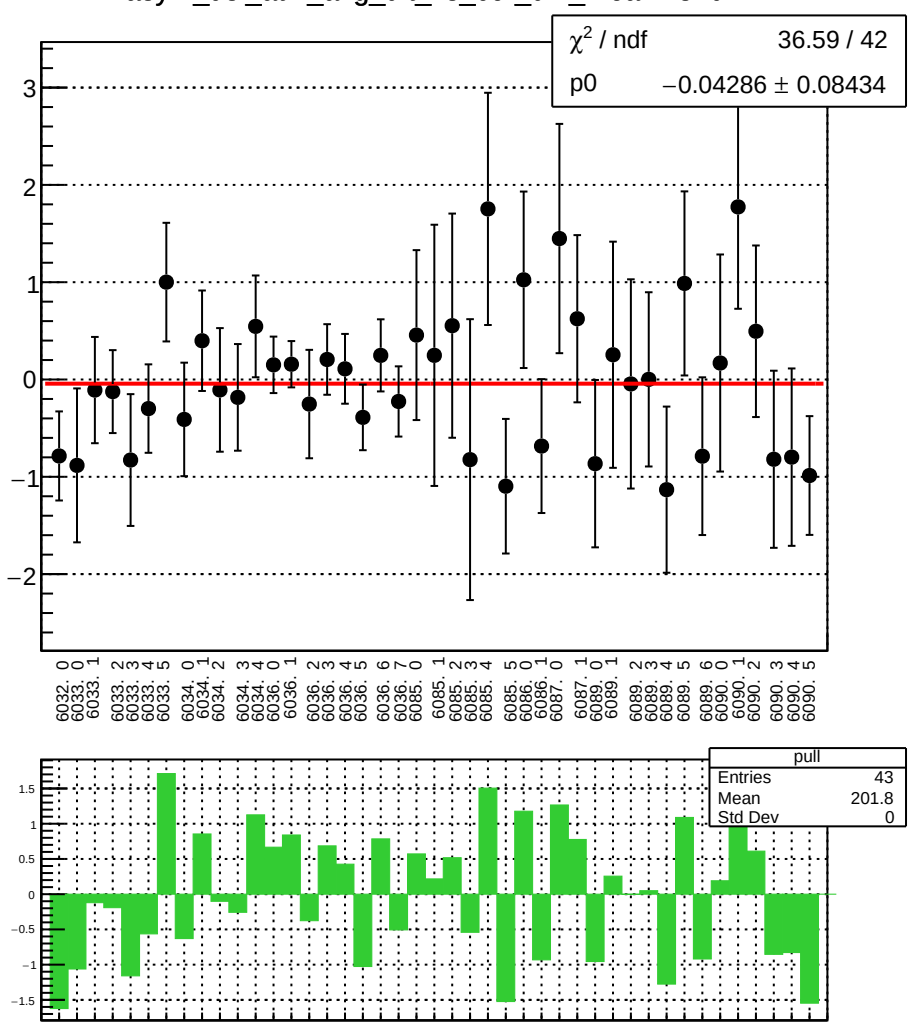

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 42
p0 596.7 ± 0.6426
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

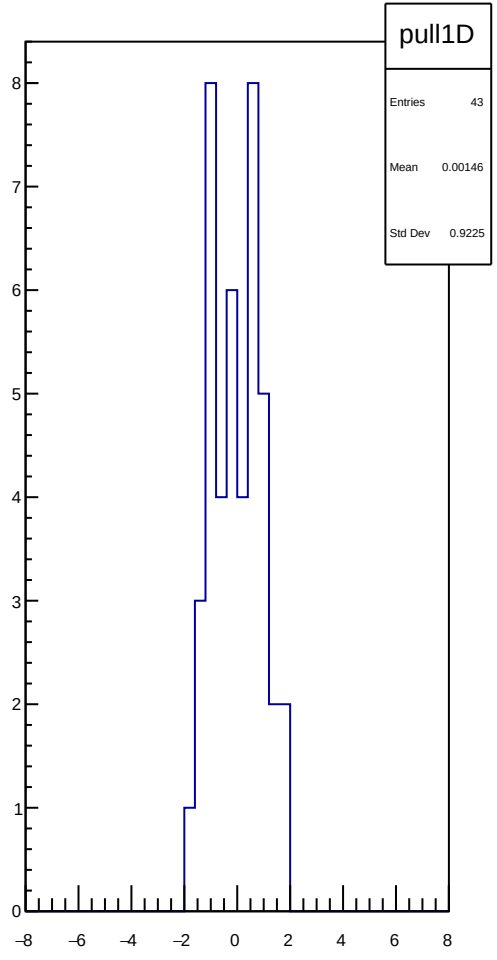

asym_usl_atl1_avg_mean vs run
χ² / ndf 37.74 / 42
p0 −2575 ± 2419
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 421.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.005394
Std Dev 0.9368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

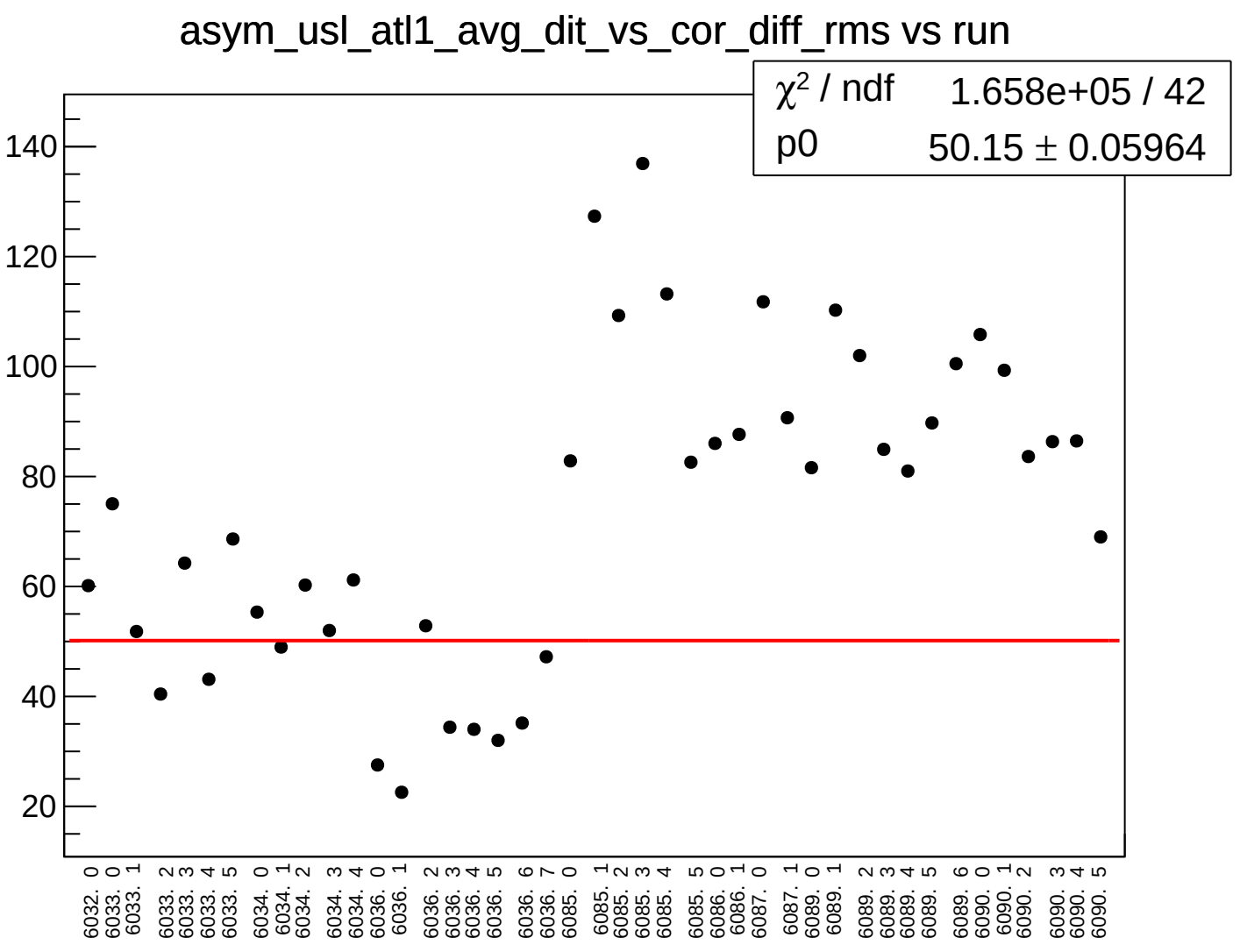

asym_usl_atl1_avg_rms vs run
χ² / ndf 1105 / 42
p0 1597 ± 1.71
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

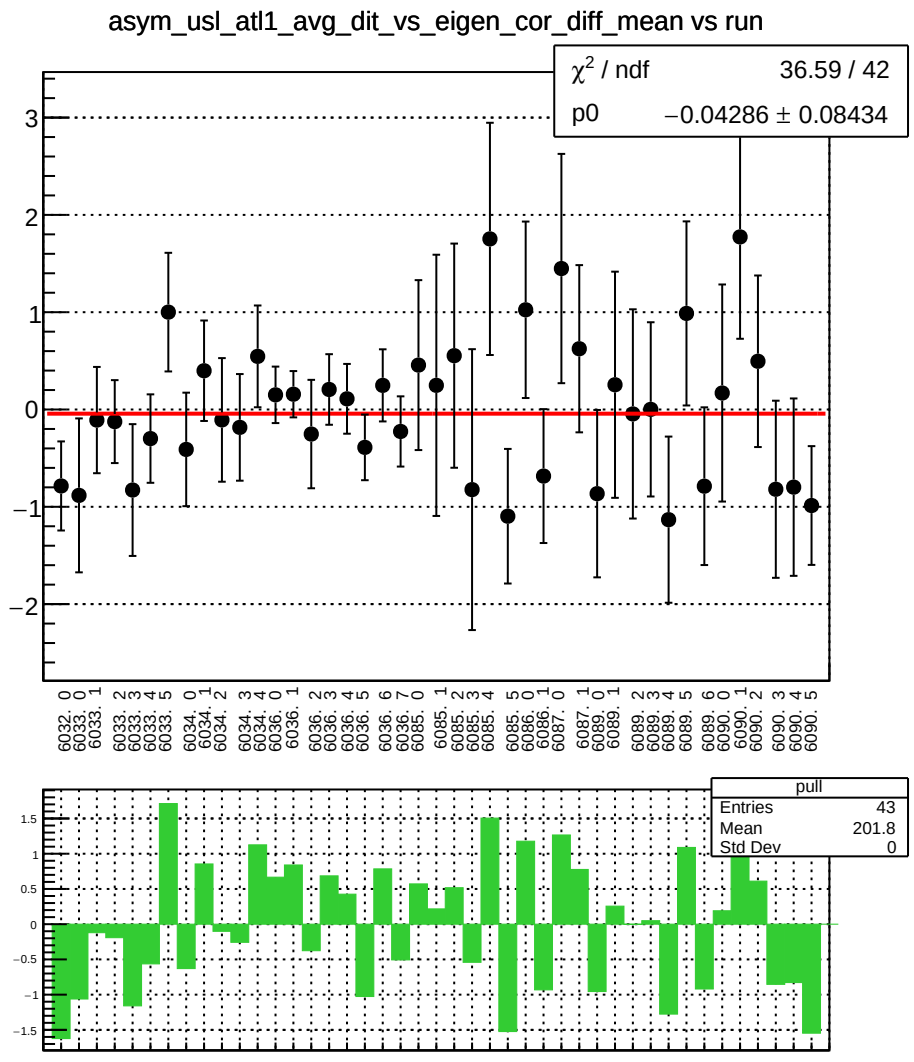

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 42
p0 7.856e−14 ± 9.5e−14
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 41.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1819
Std Dev 0.9014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

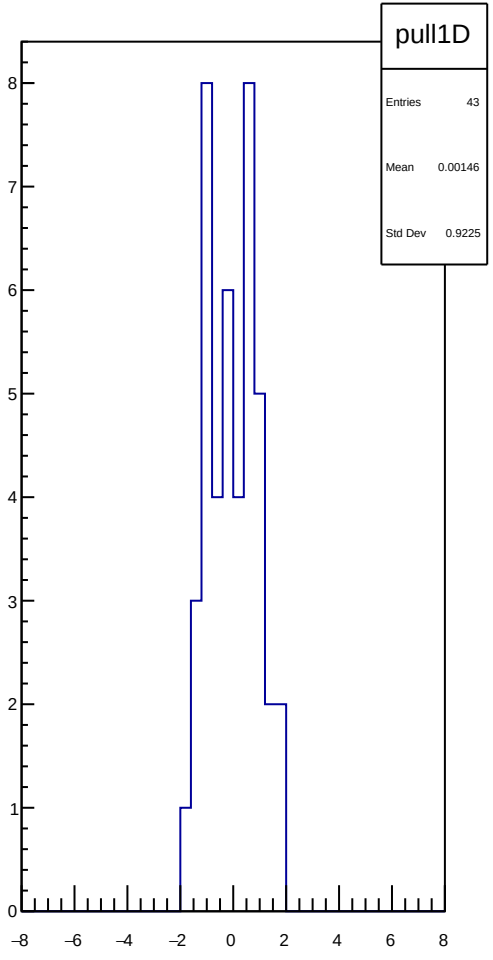

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.317e+05 / 42
p0 3.925e−11 ± 6.718e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

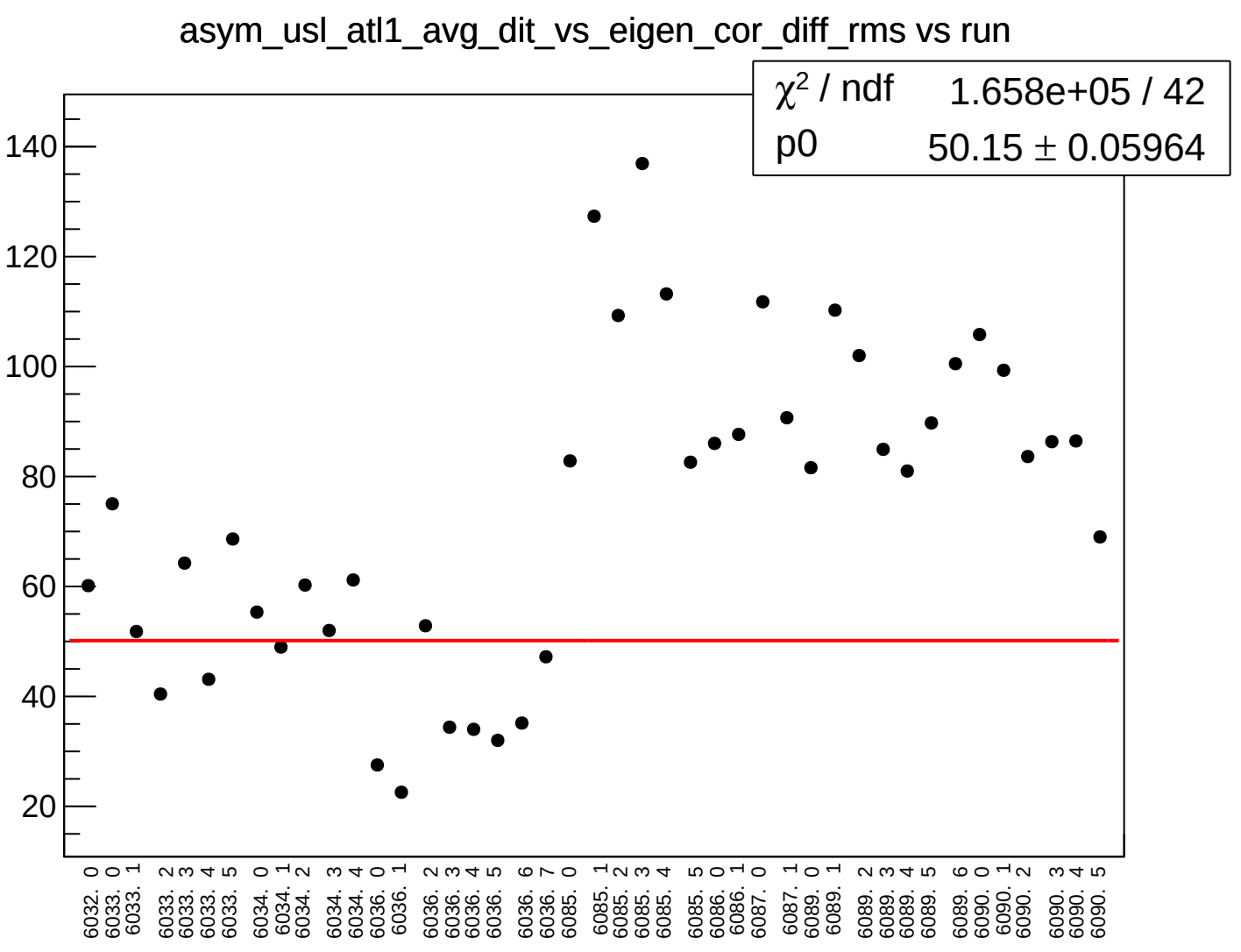

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.59 / 42
p0 −0.04286 ± 0.08434
pull
Entries 43
Mean 201.8
Std Dev 0

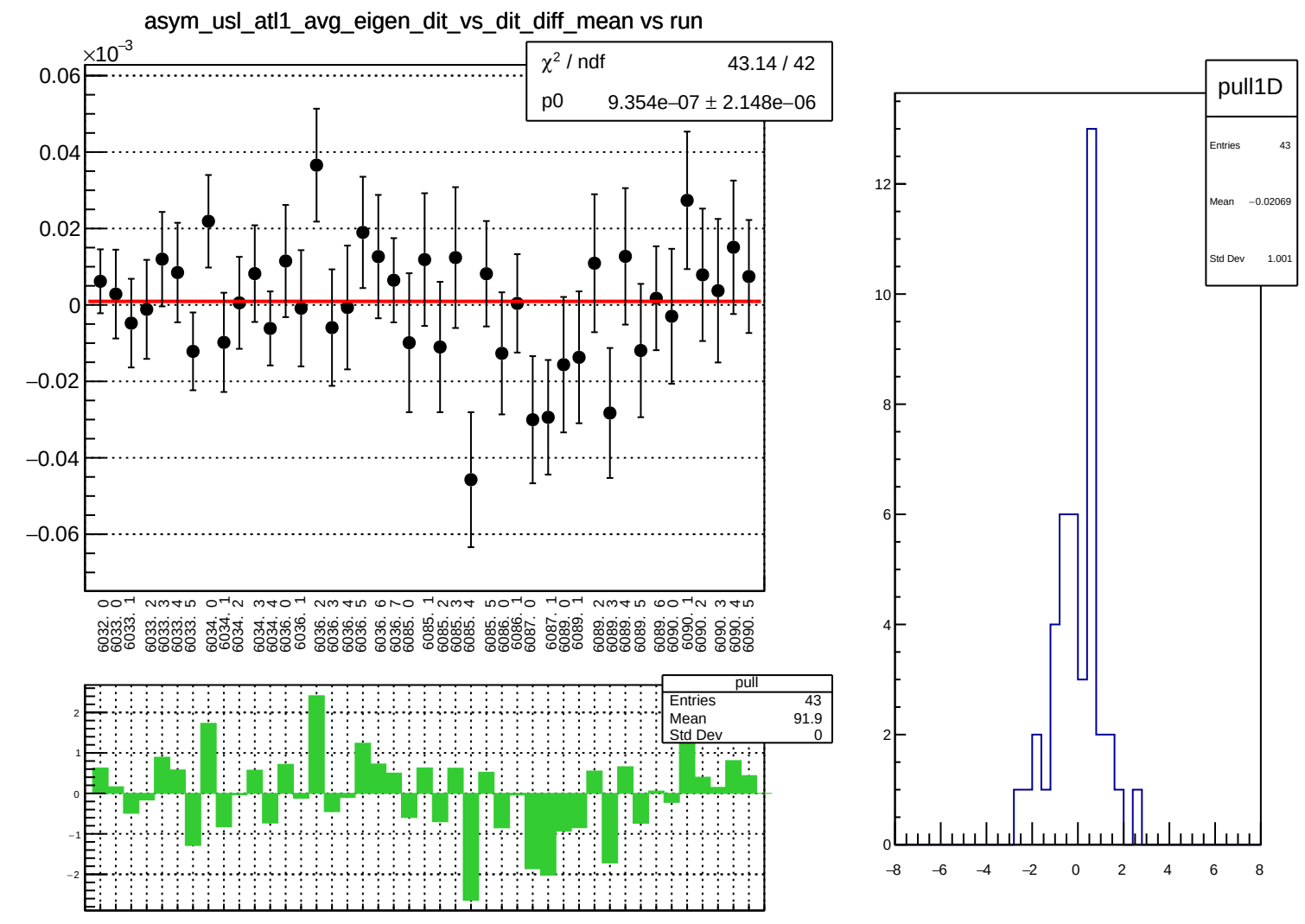

pull1D
Entries 43
Mean 0.00146
Std Dev 0.9225

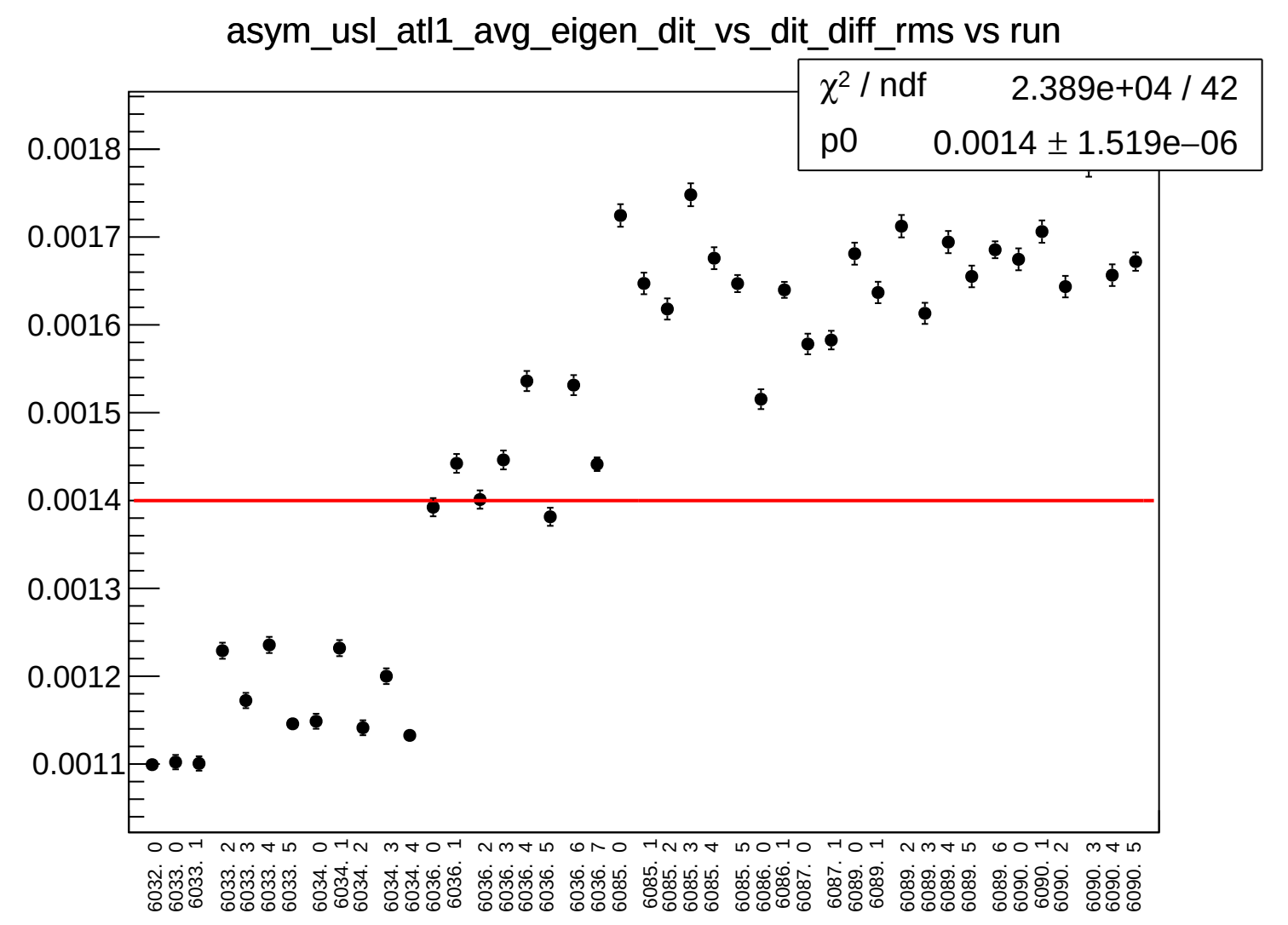

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.658e+05 / 42
p0 50.15 ± 0.05964
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

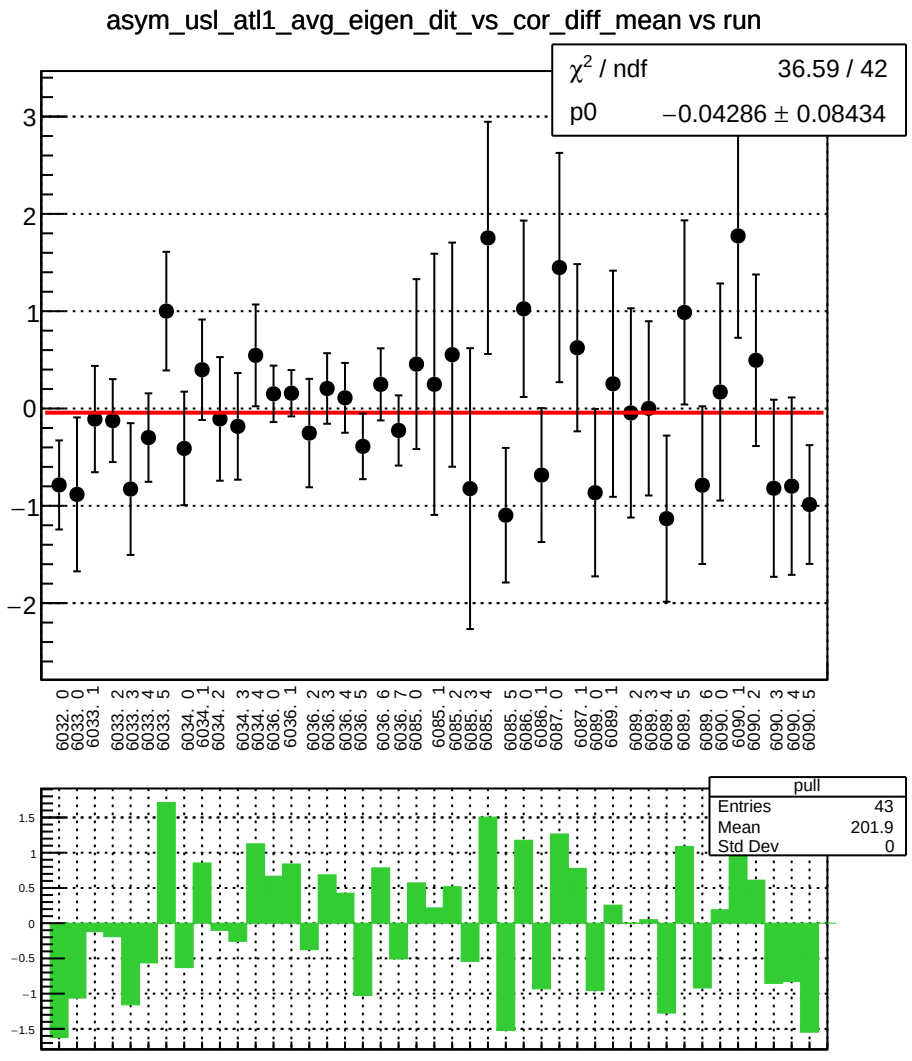

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.59 / 42
p0 −0.04286 ± 0.08434
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 201.8
Std Dev 0

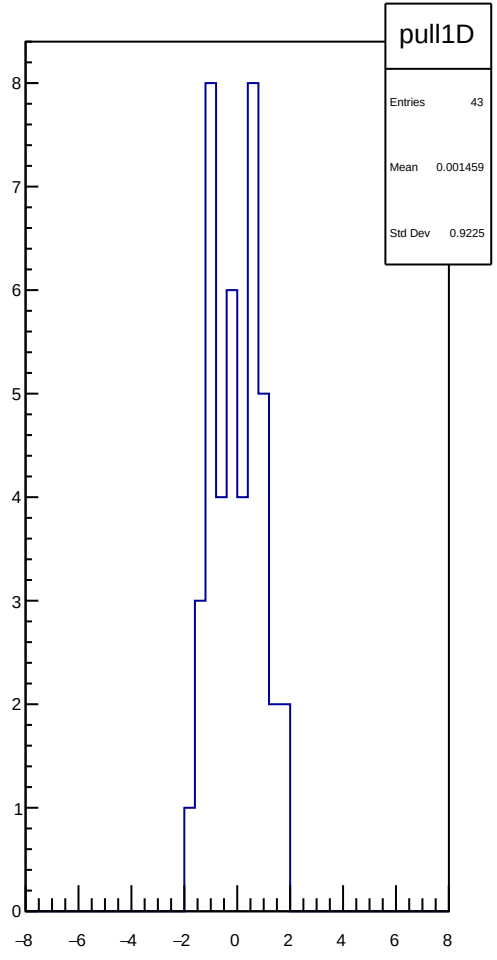

pull1D
Entries 43
Mean 0.00146
Std Dev 0.9225

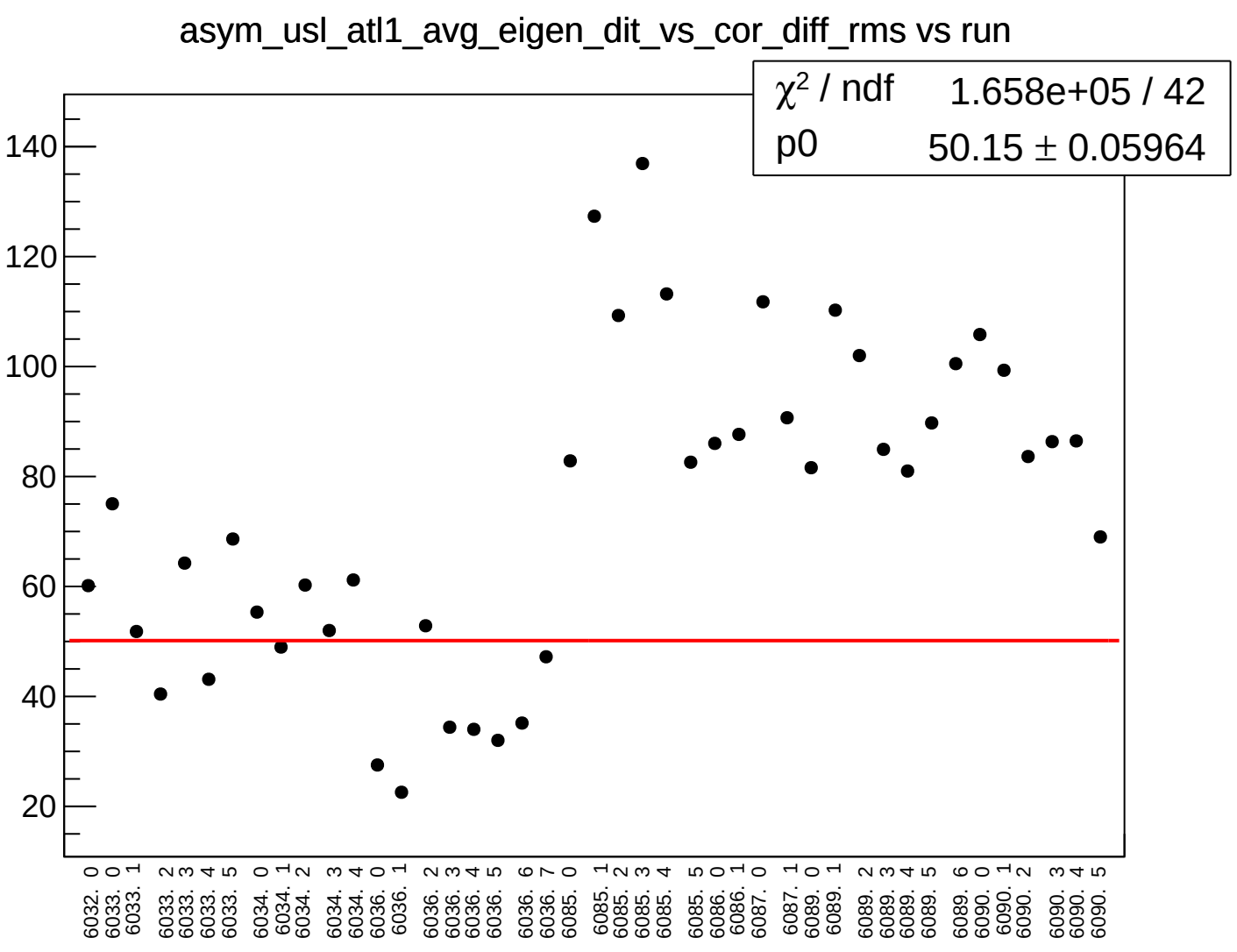

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.658e+05 / 42
p0 50.15 ± 0.05964
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

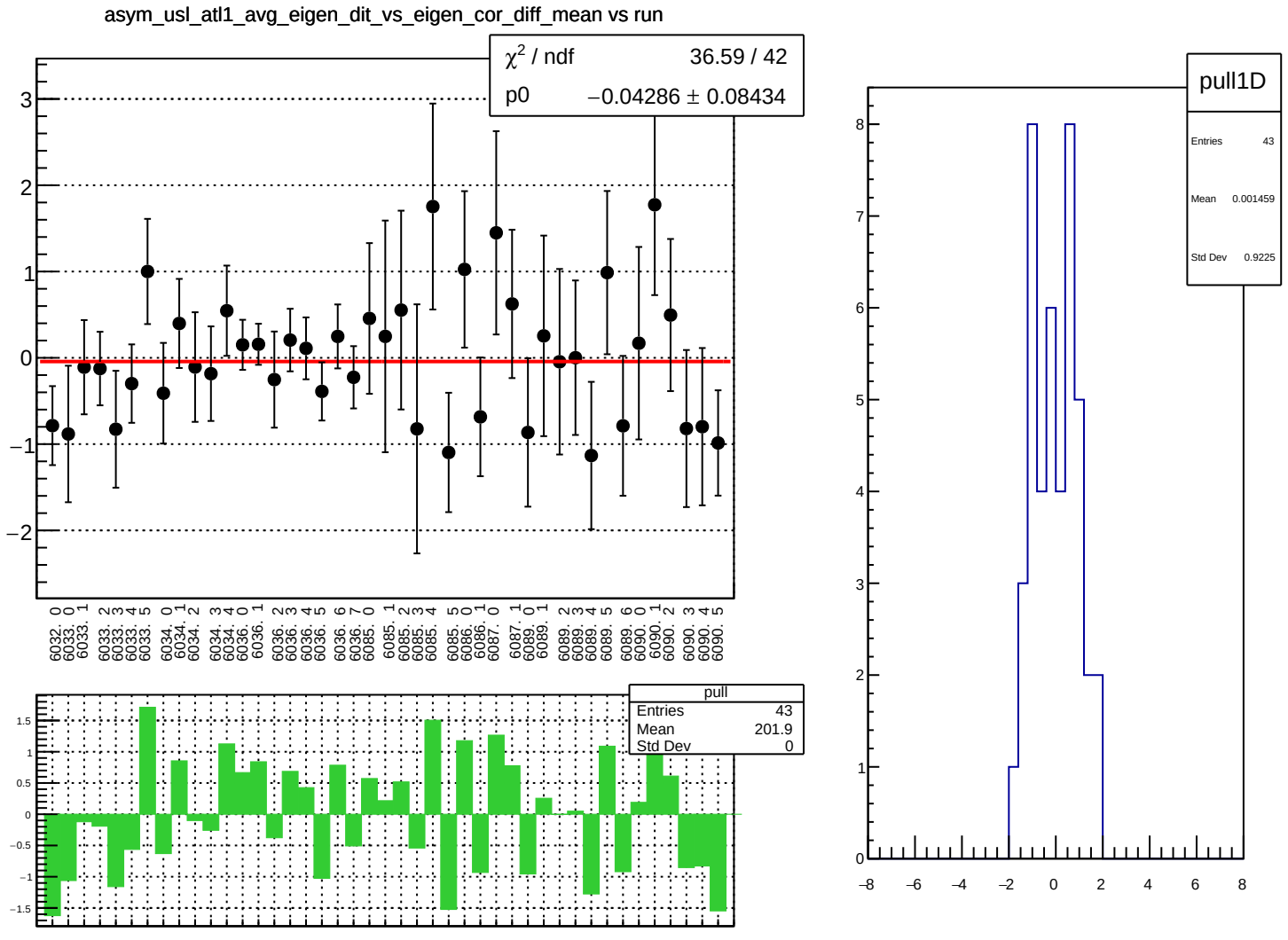

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.14 / 42
p0 9.354e−07 ± 2.148e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 91.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02069
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

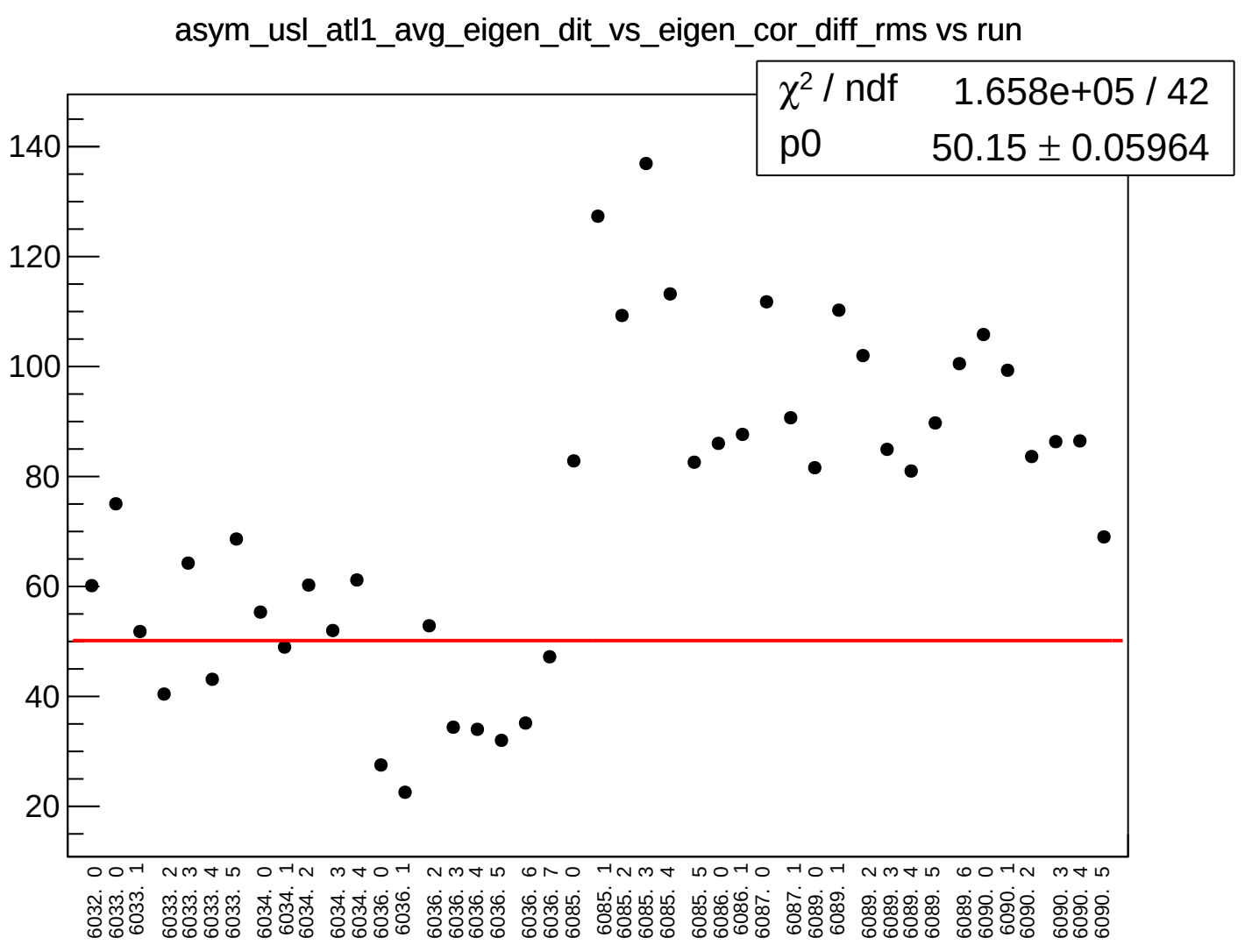

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.389e+04 / 42
p0 0.0014 ± 1.519e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

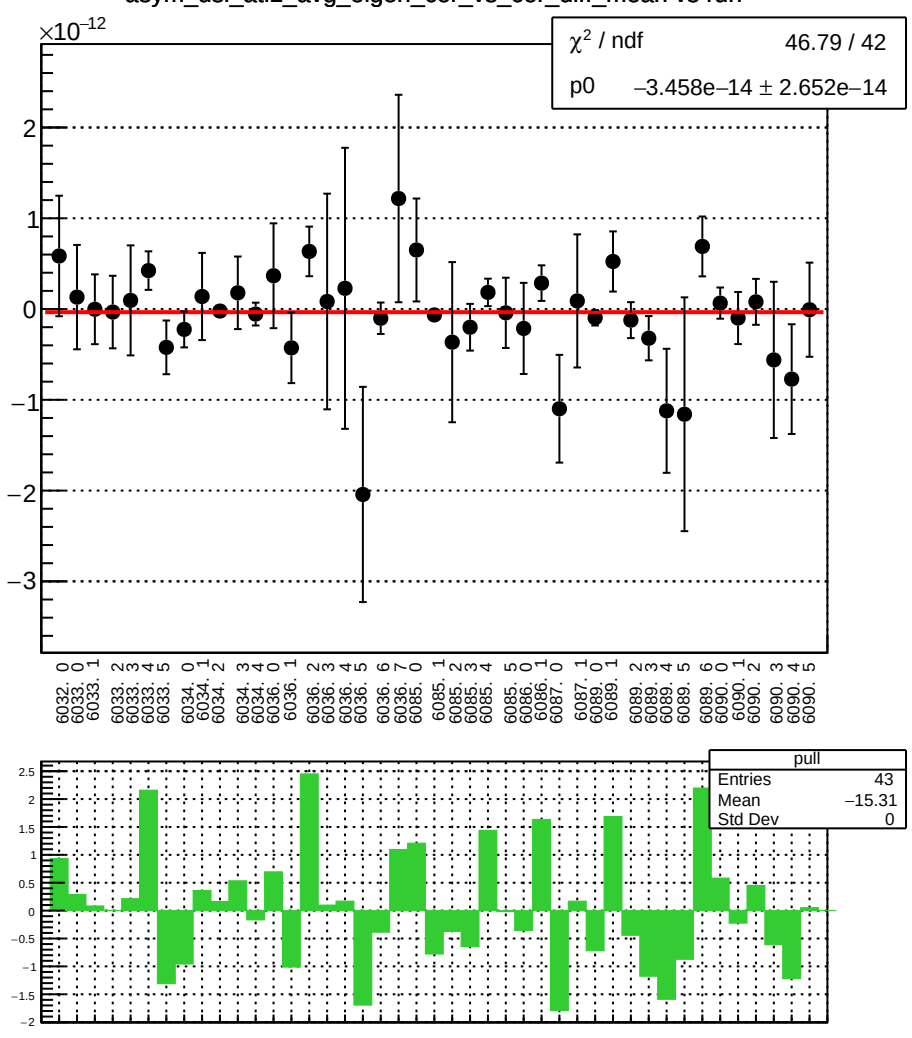

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.59 / 42
p0 −0.04286 ± 0.08434
pull
Entries 43
Mean 201.9
Std Dev 0

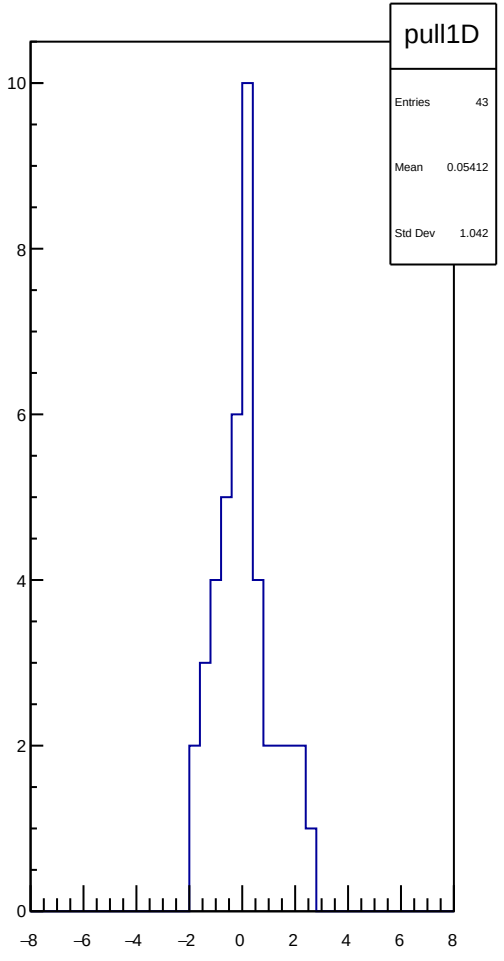

pull1D
Entries 43
Mean 0.001459
Std Dev 0.9225

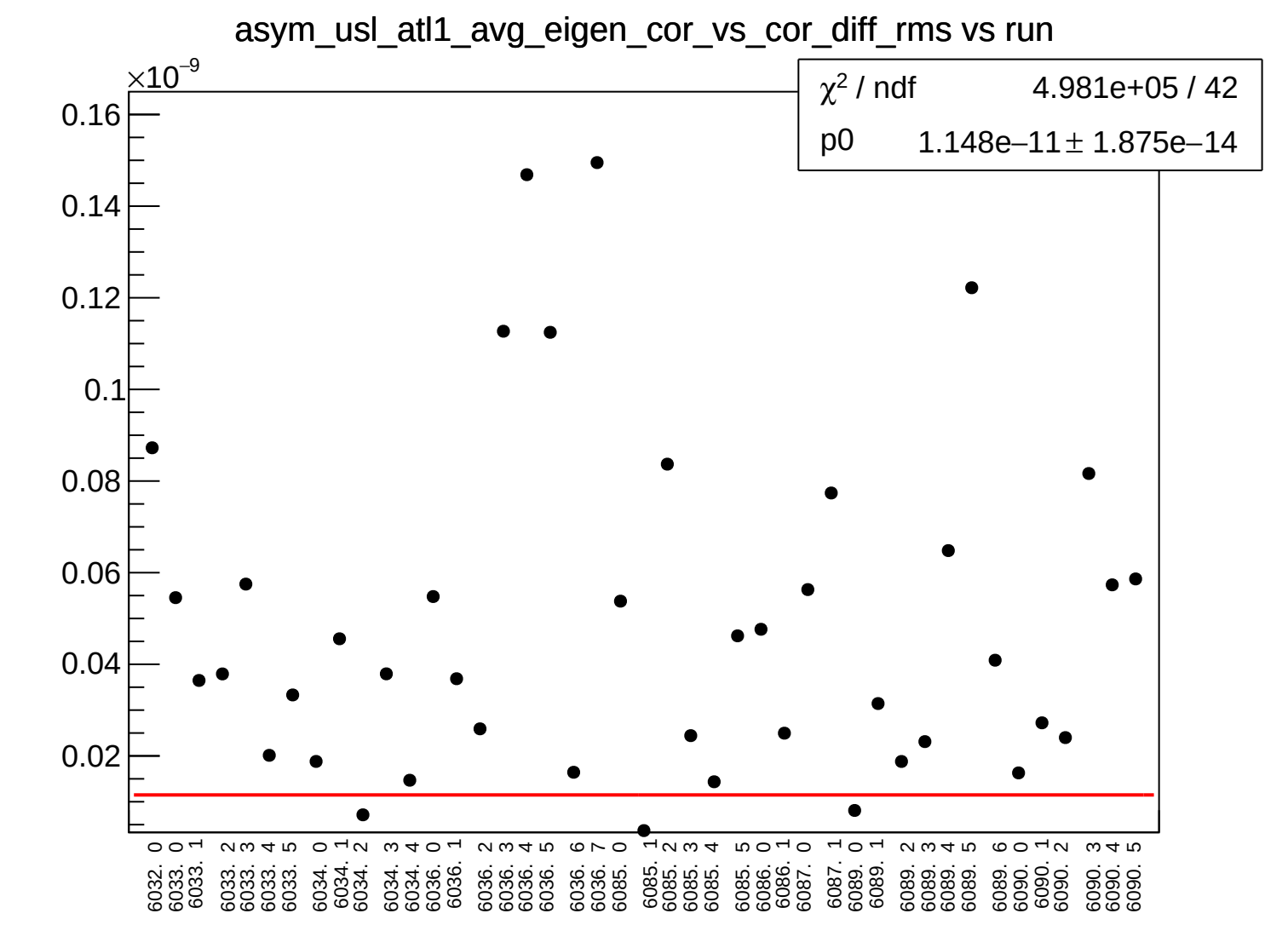

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.658e+05 / 42
p0 50.15 ± 0.05964
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

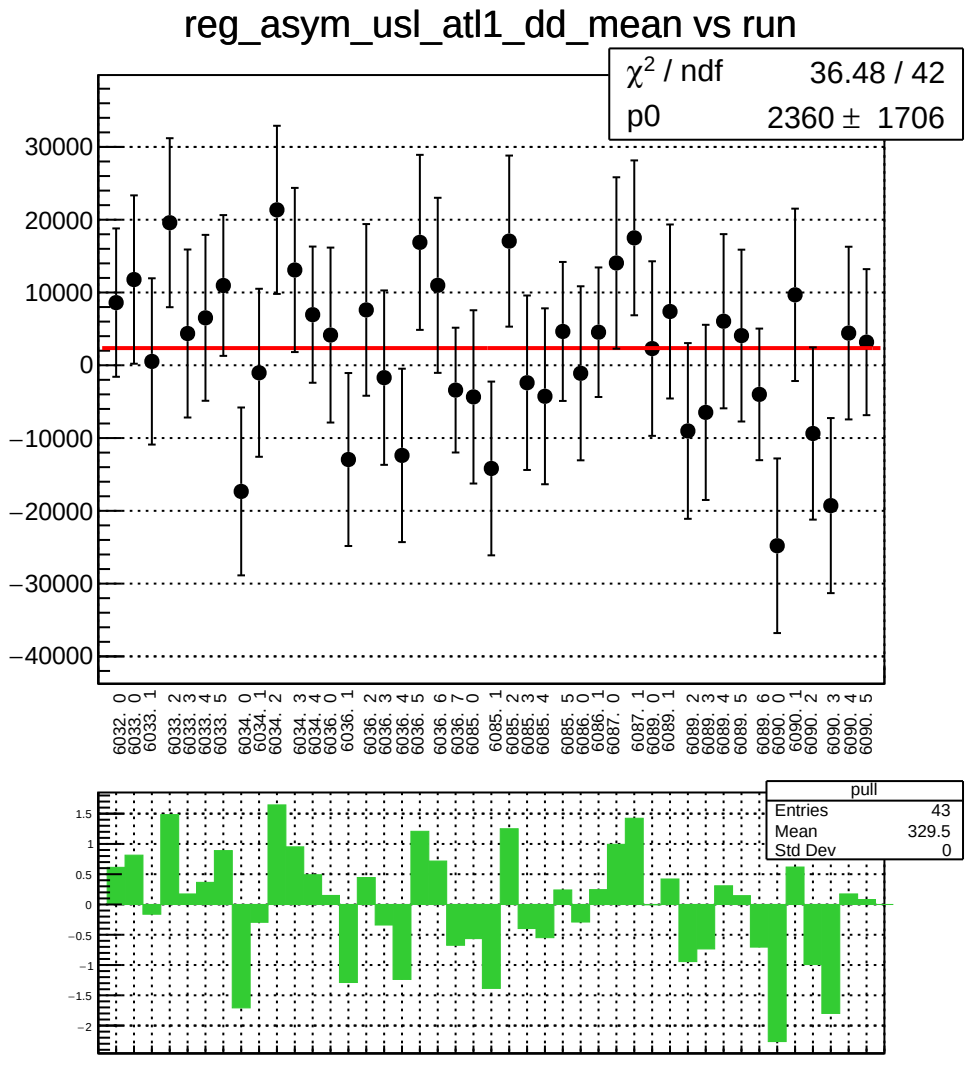

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.59 / 42
p0 −0.04286 ± 0.08434
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 201.9
Std Dev 0
pull1D
Entries 43
Mean 0.001459
Std Dev 0.9225

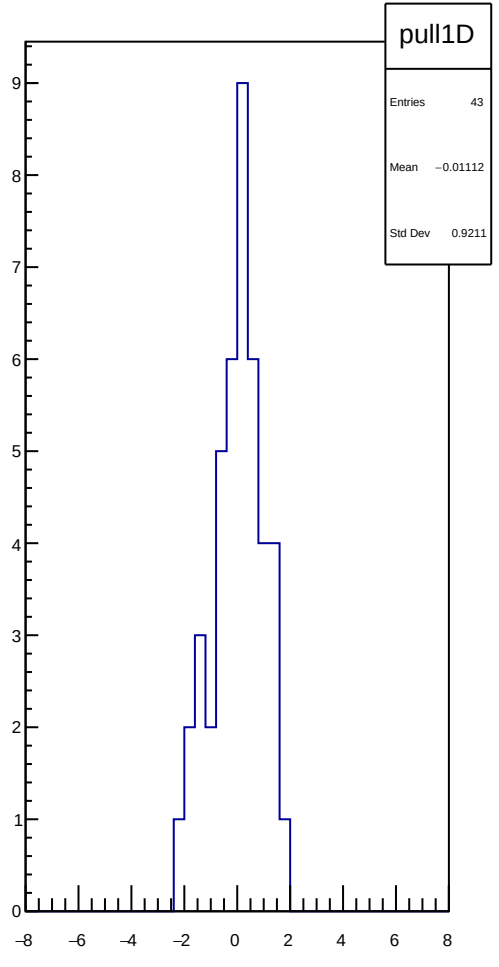

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.658e+05 / 42
p0 50.15 ± 0.05964
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

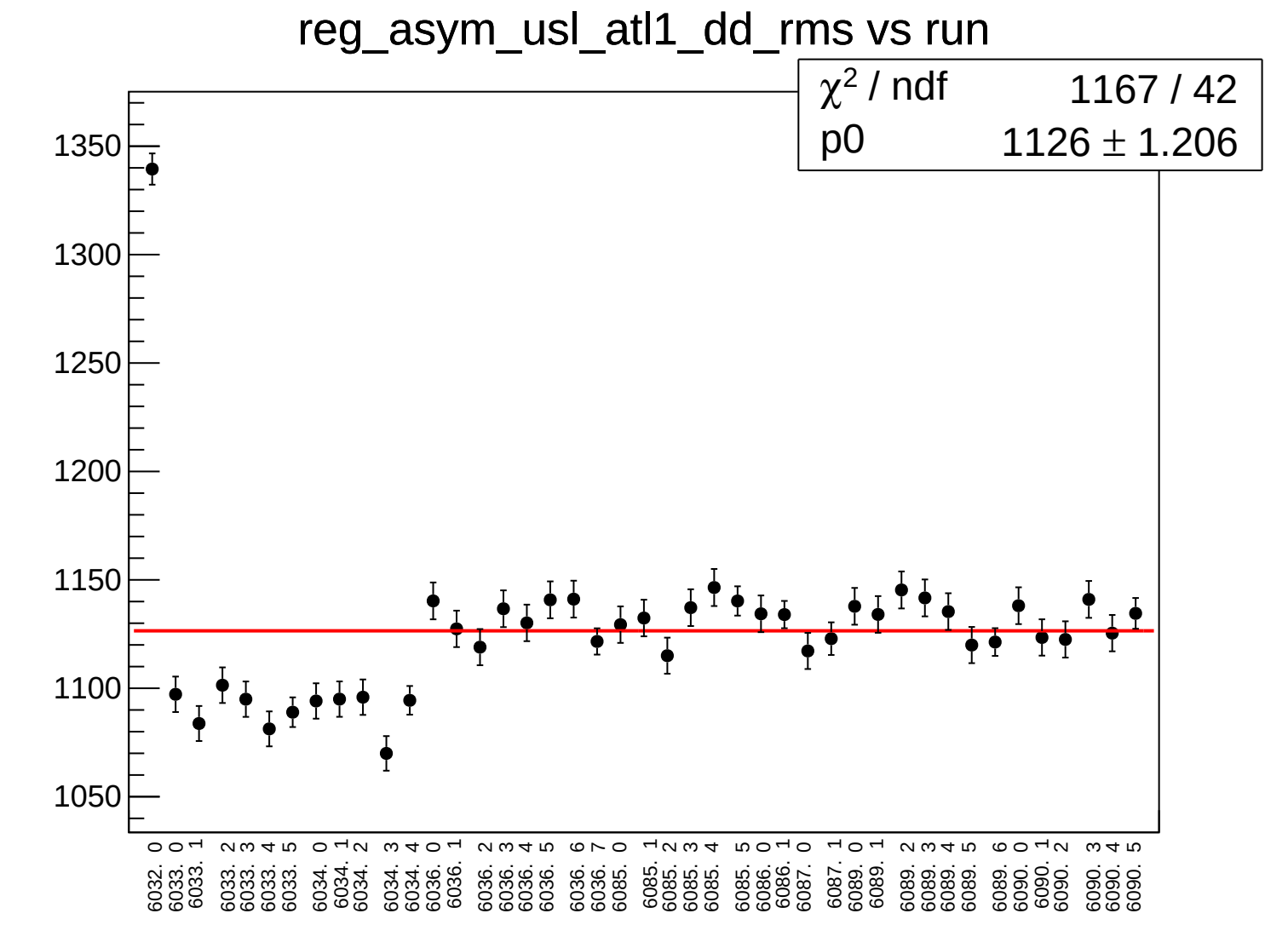

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 46.79 / 42
p0 −3.458e−14 ± 2.652e−14
pull
Entries 43
Mean −15.31
Std Dev 0

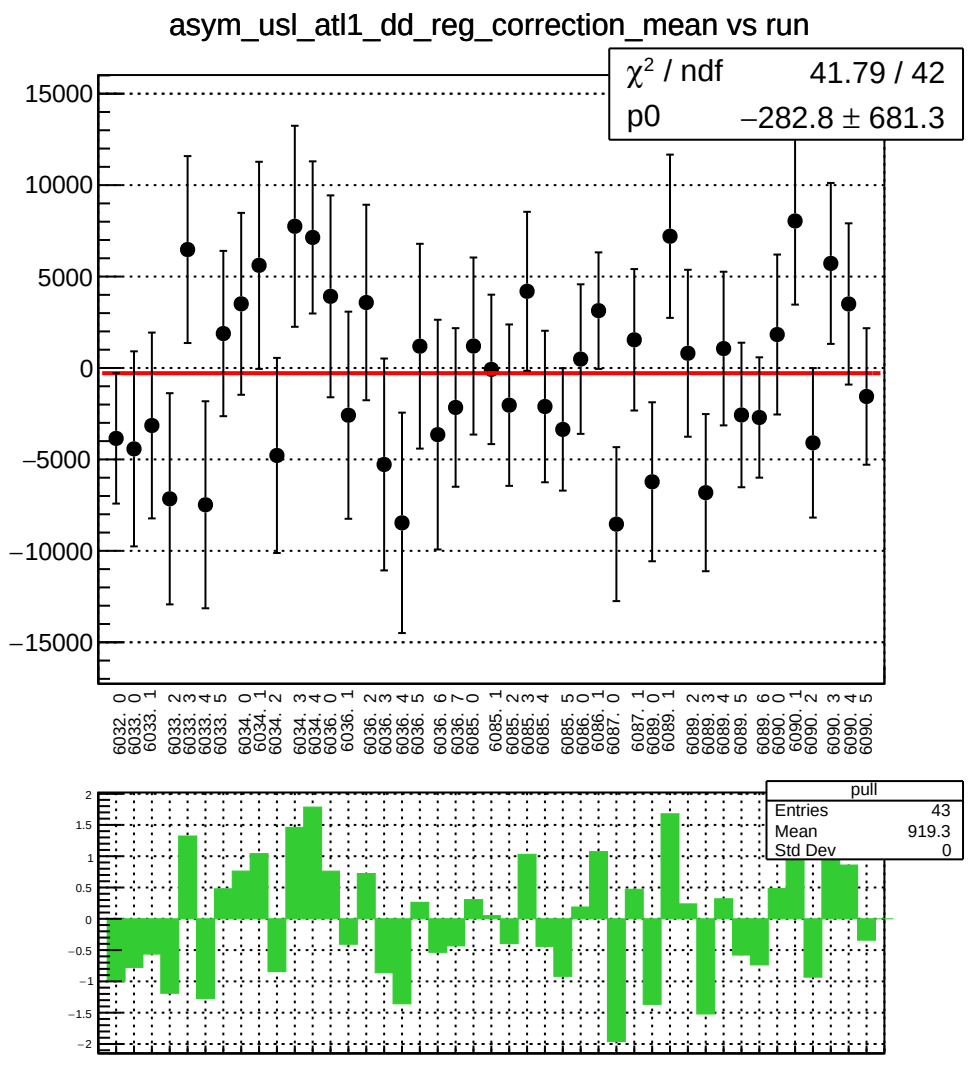

pull1D
Entries 43
Mean 0.05412
Std Dev 1.042

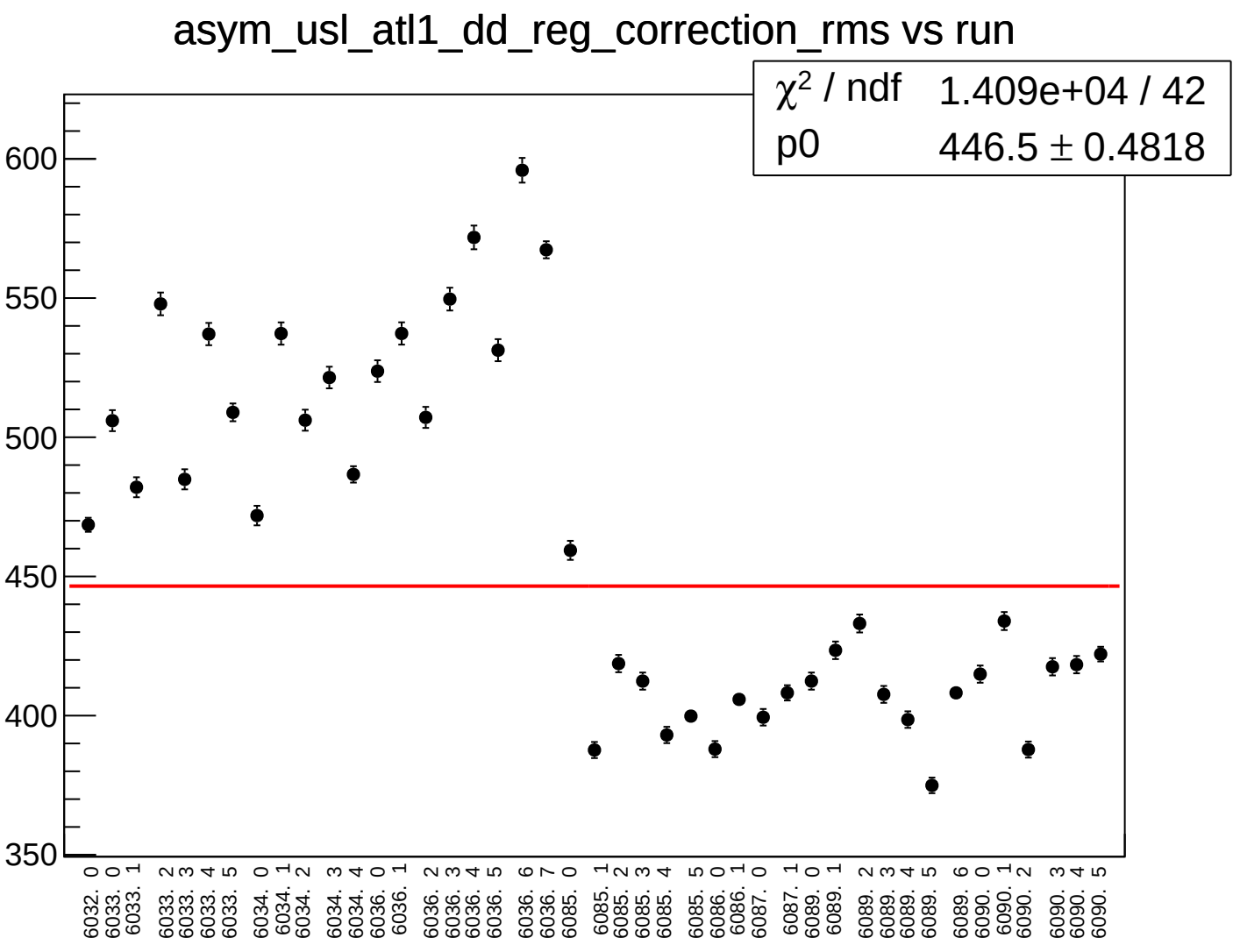

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.981e+05 / 42
p0 1.148e−11 ± 1.875e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

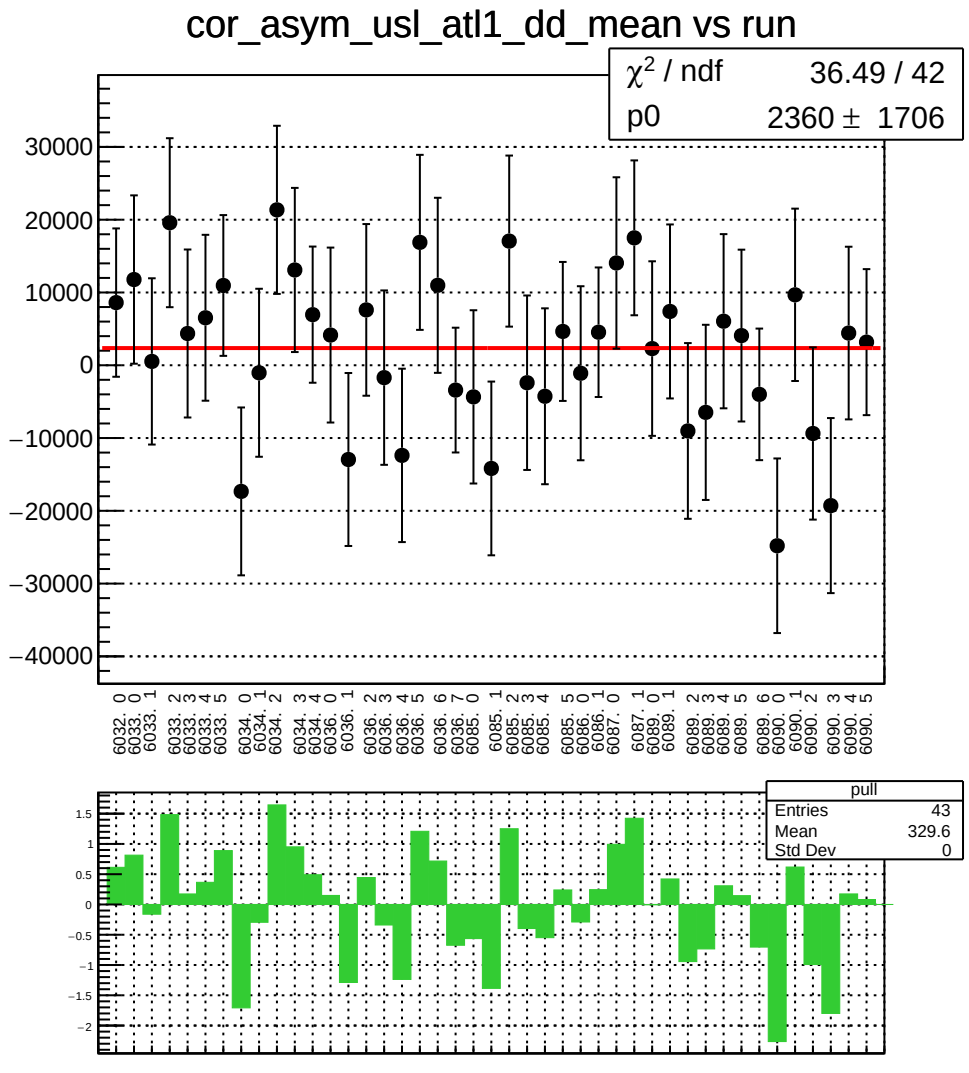

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 36.48 / 42
p0 2360 ± 1706
pull
Entries 43
Mean 329.5
Std Dev 0

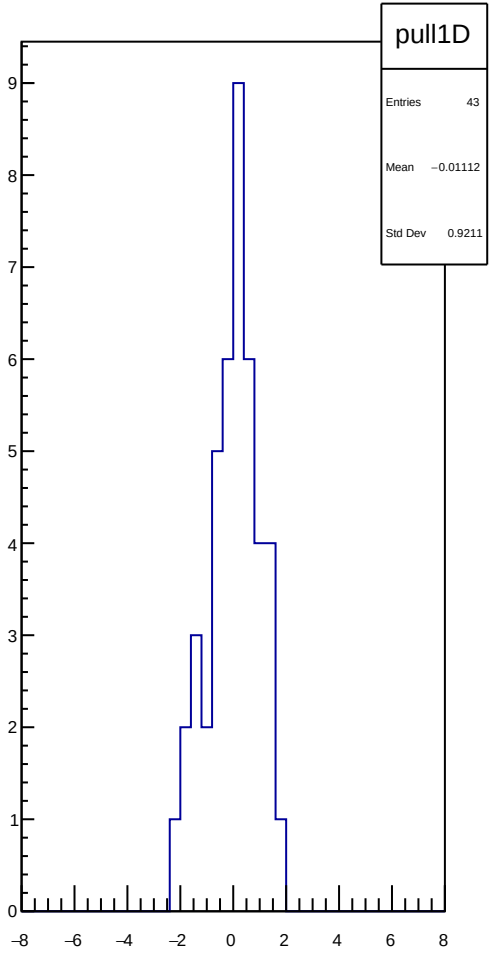

pull1D
Entries 43
Mean −0.01112
Std Dev 0.9211

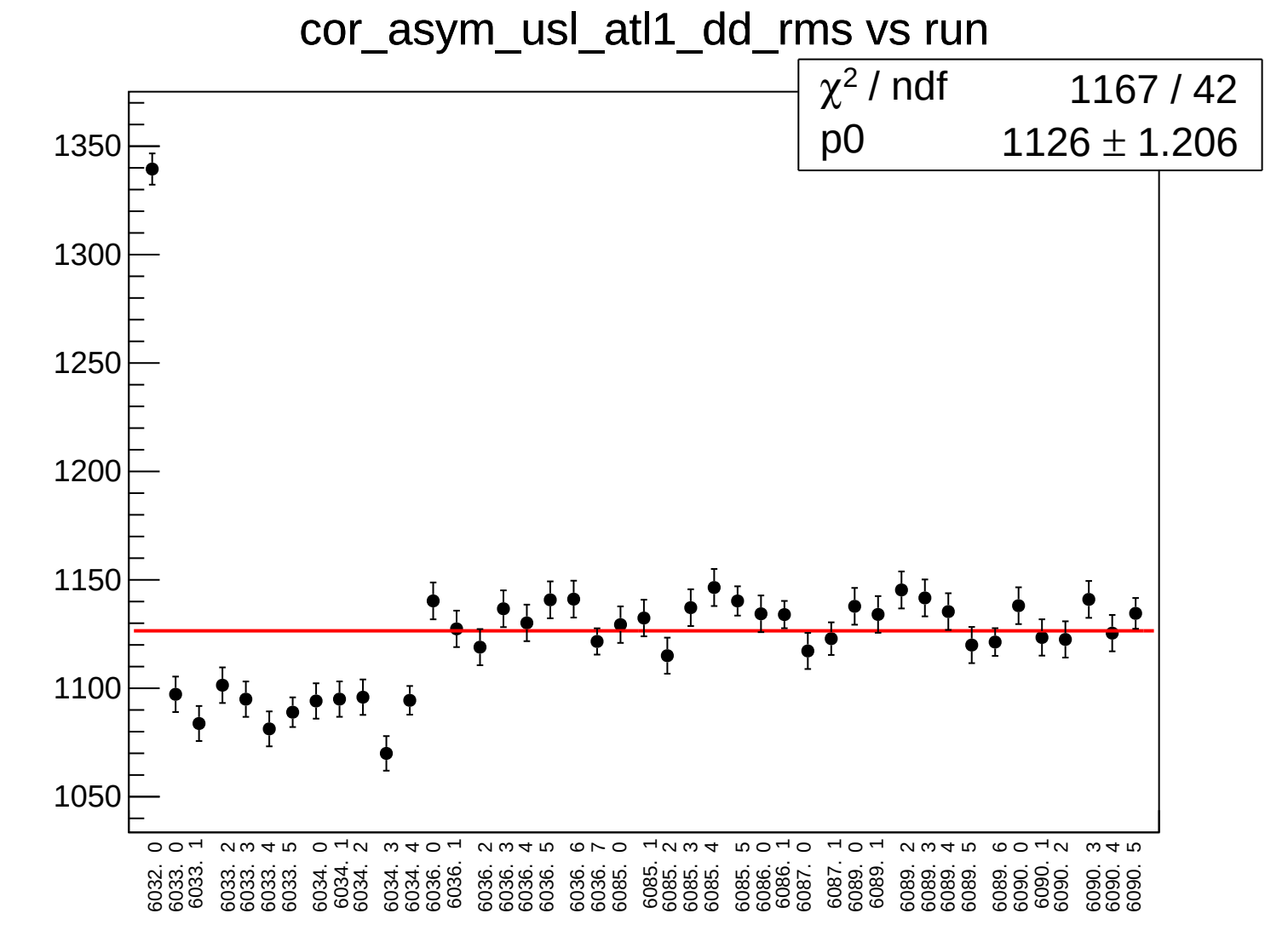

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 1167 / 42
p0 1126 ± 1.206
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

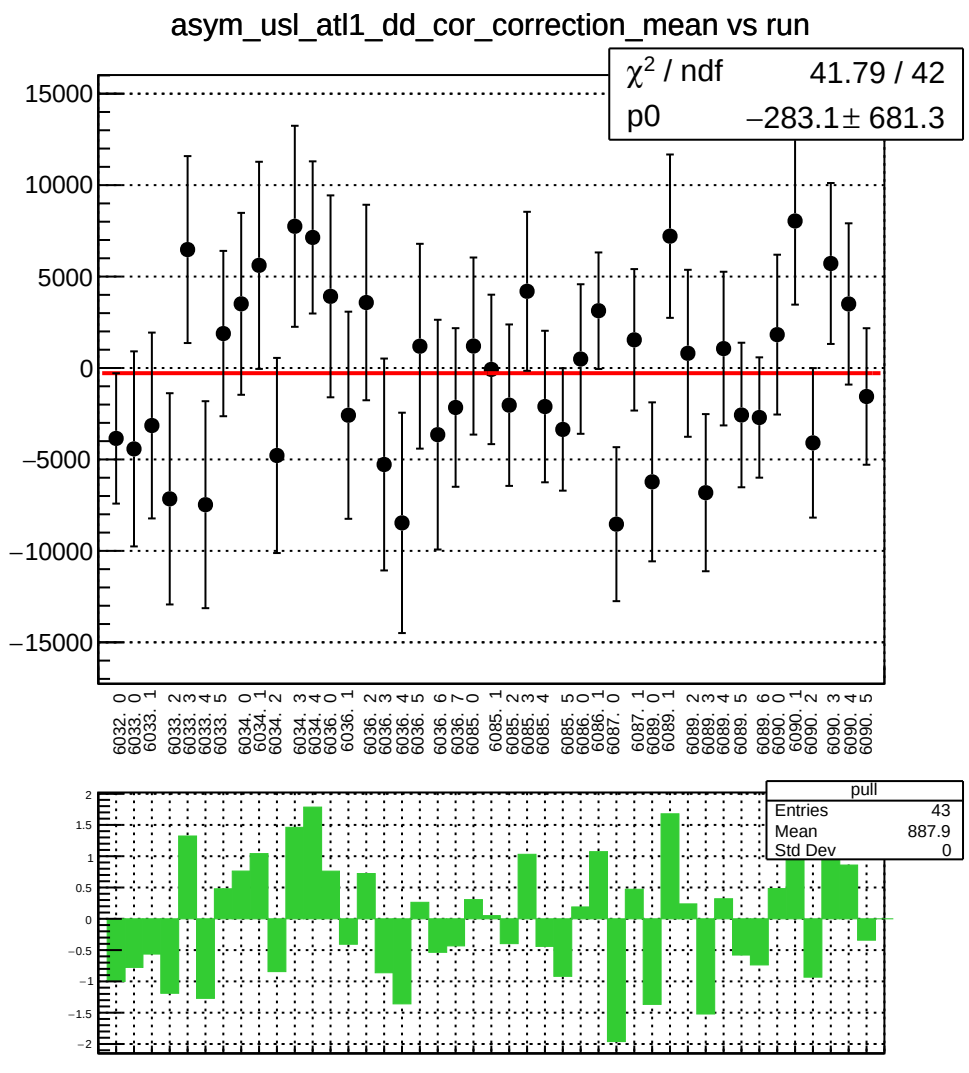

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 41.79 / 42
p0 −282.8 ± 681.3
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 919.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001074
Std Dev 0.9858
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

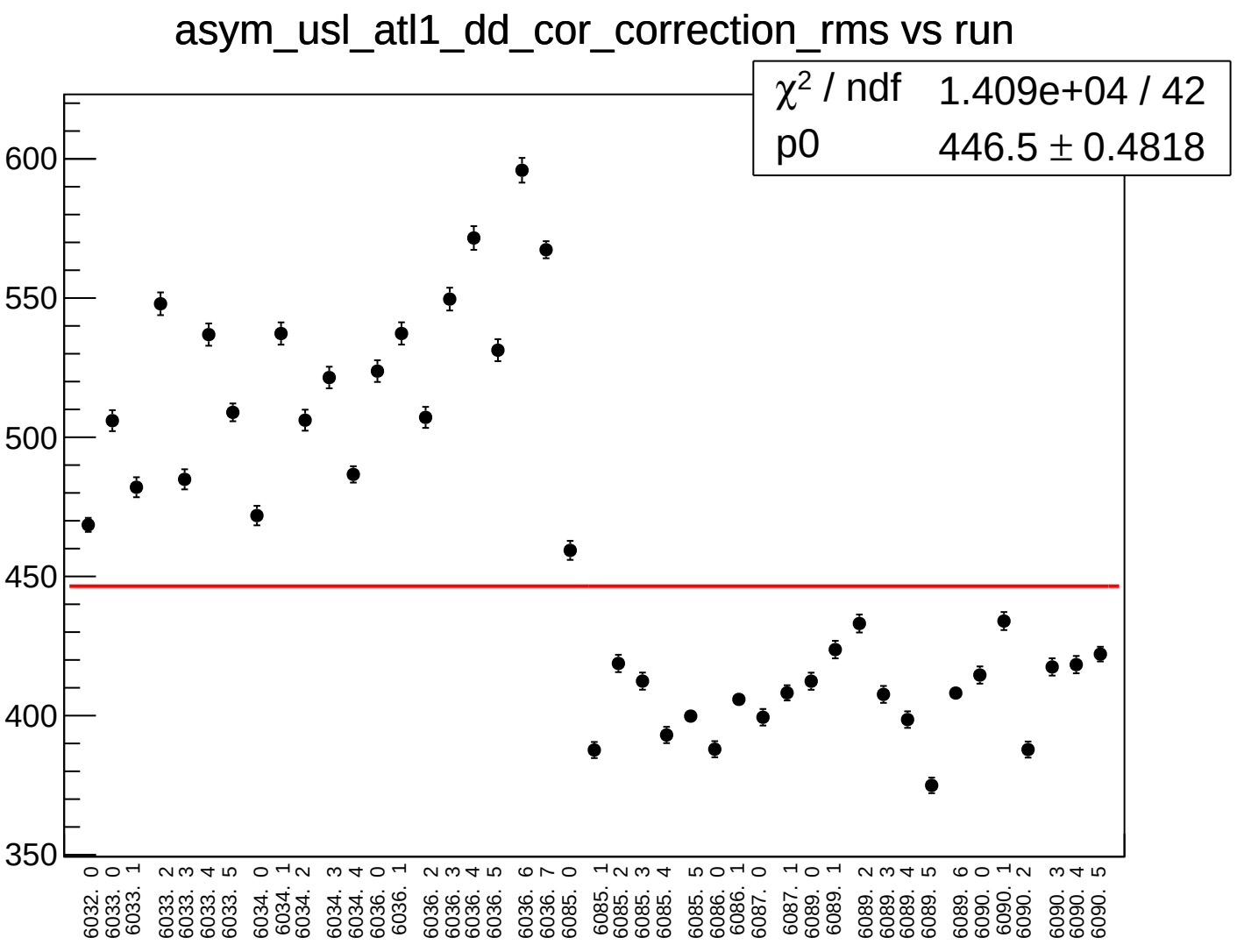

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.409e+04 / 42
p0 446.5 ± 0.4818
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

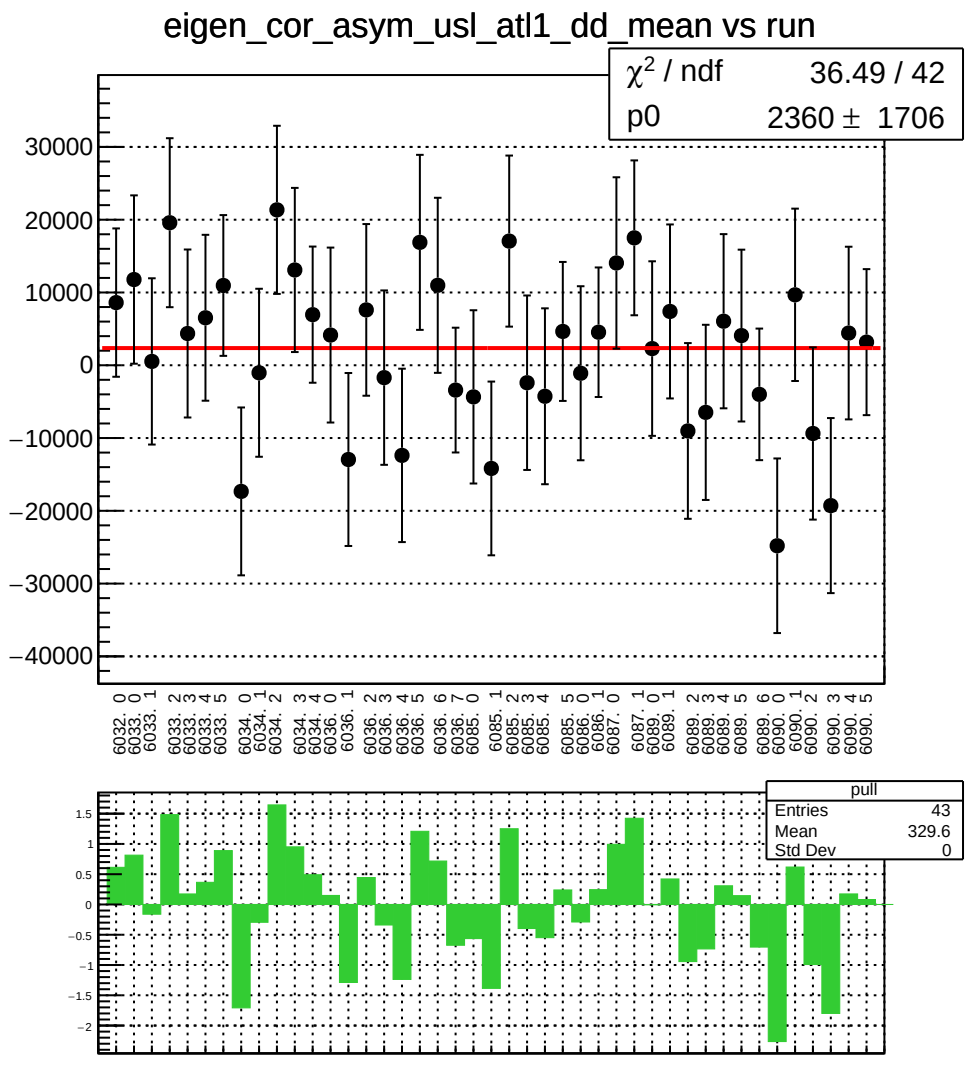

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 36.49 / 42
p0 2360 ± 1706
pull
Entries 43
Mean 329.6
Std Dev 0

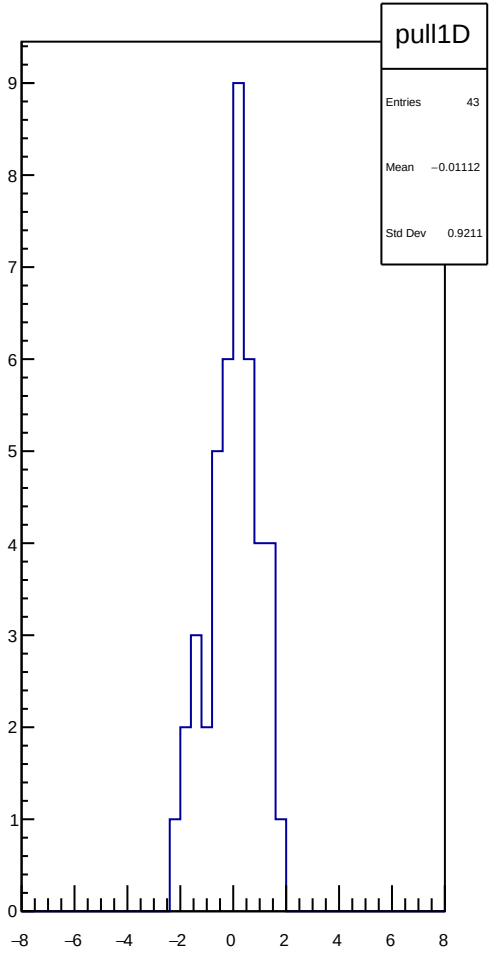

pull1D
Entries 43
Mean −0.01112
Std Dev 0.9211

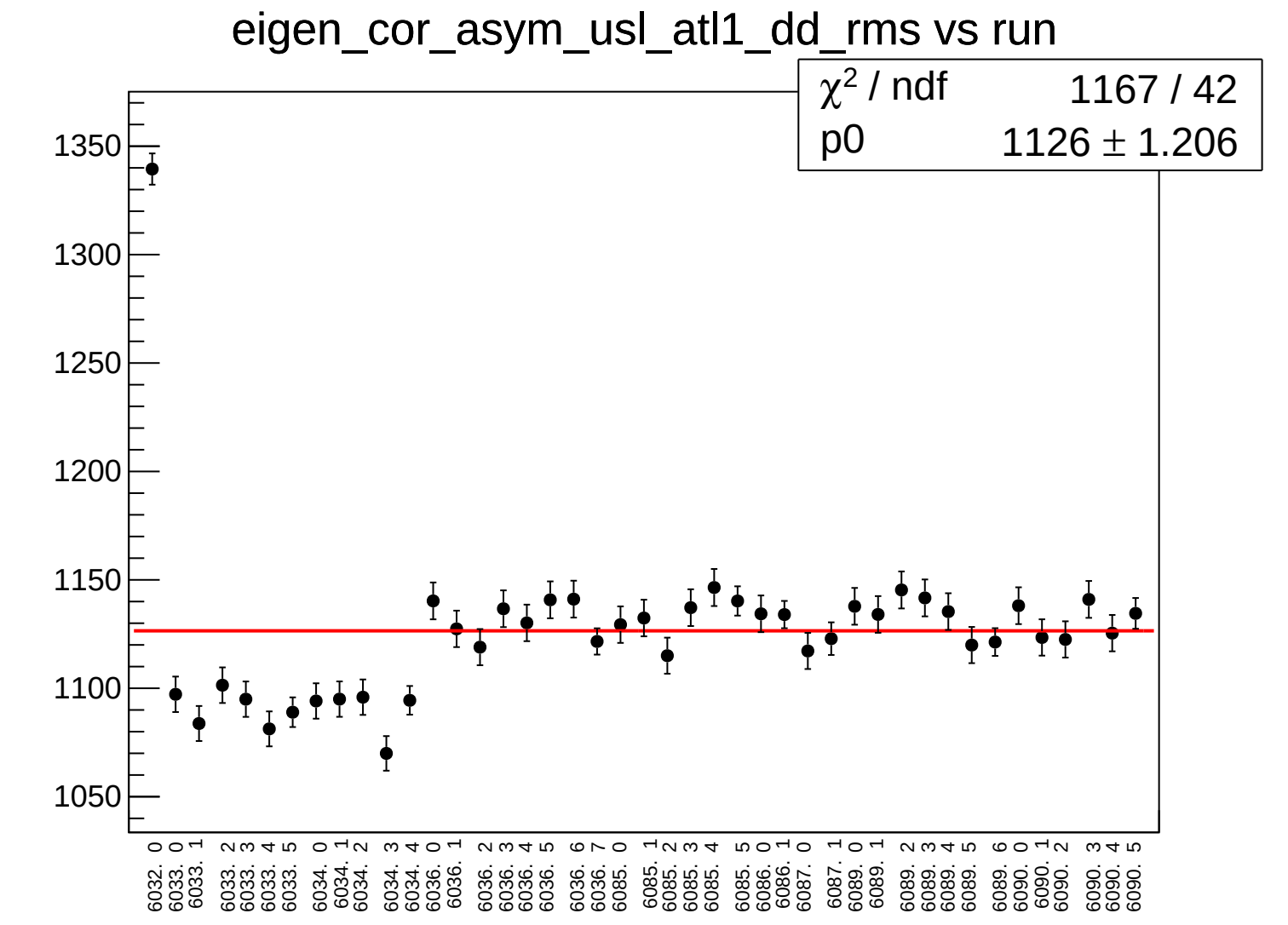

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 1167 / 42
p0 1126 ± 1.206
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

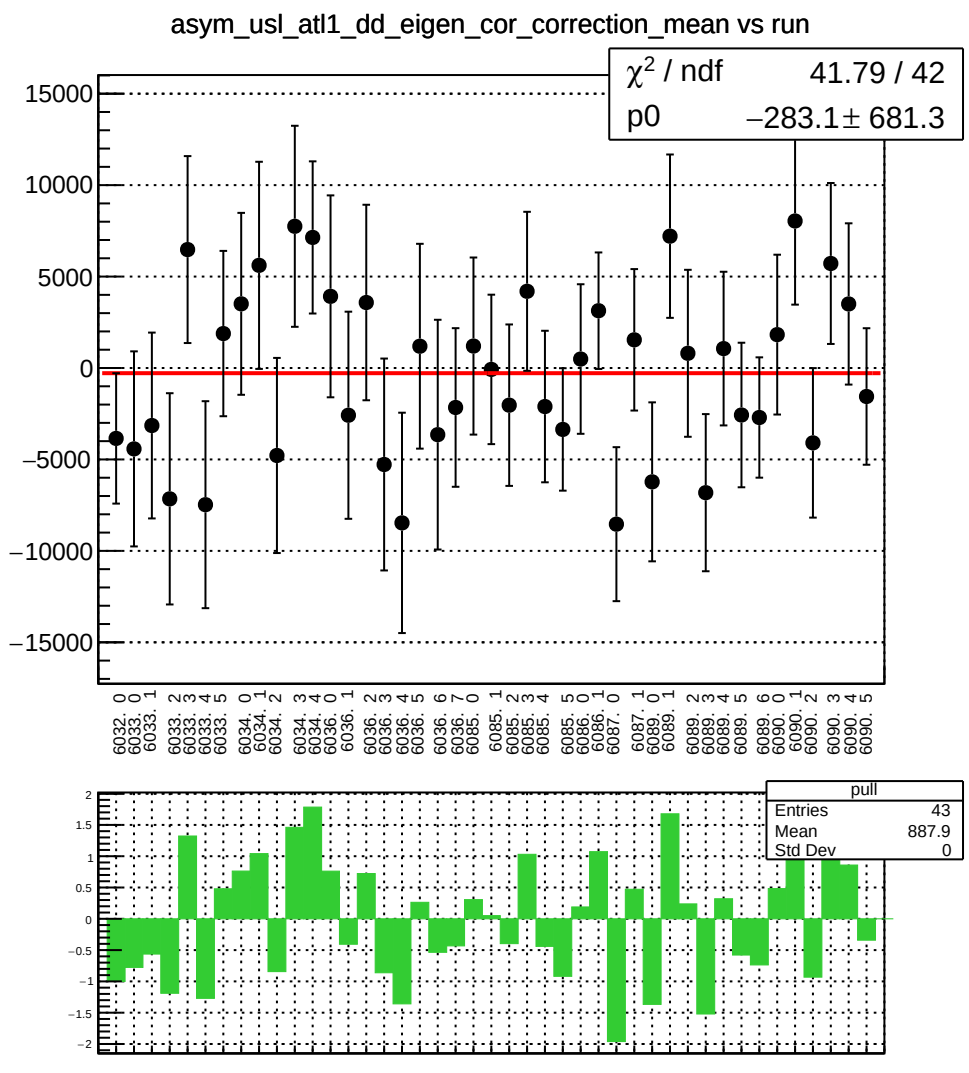

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 41.79 / 42
p0 −283.1± 681.3
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 887.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001112
Std Dev 0.9858
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

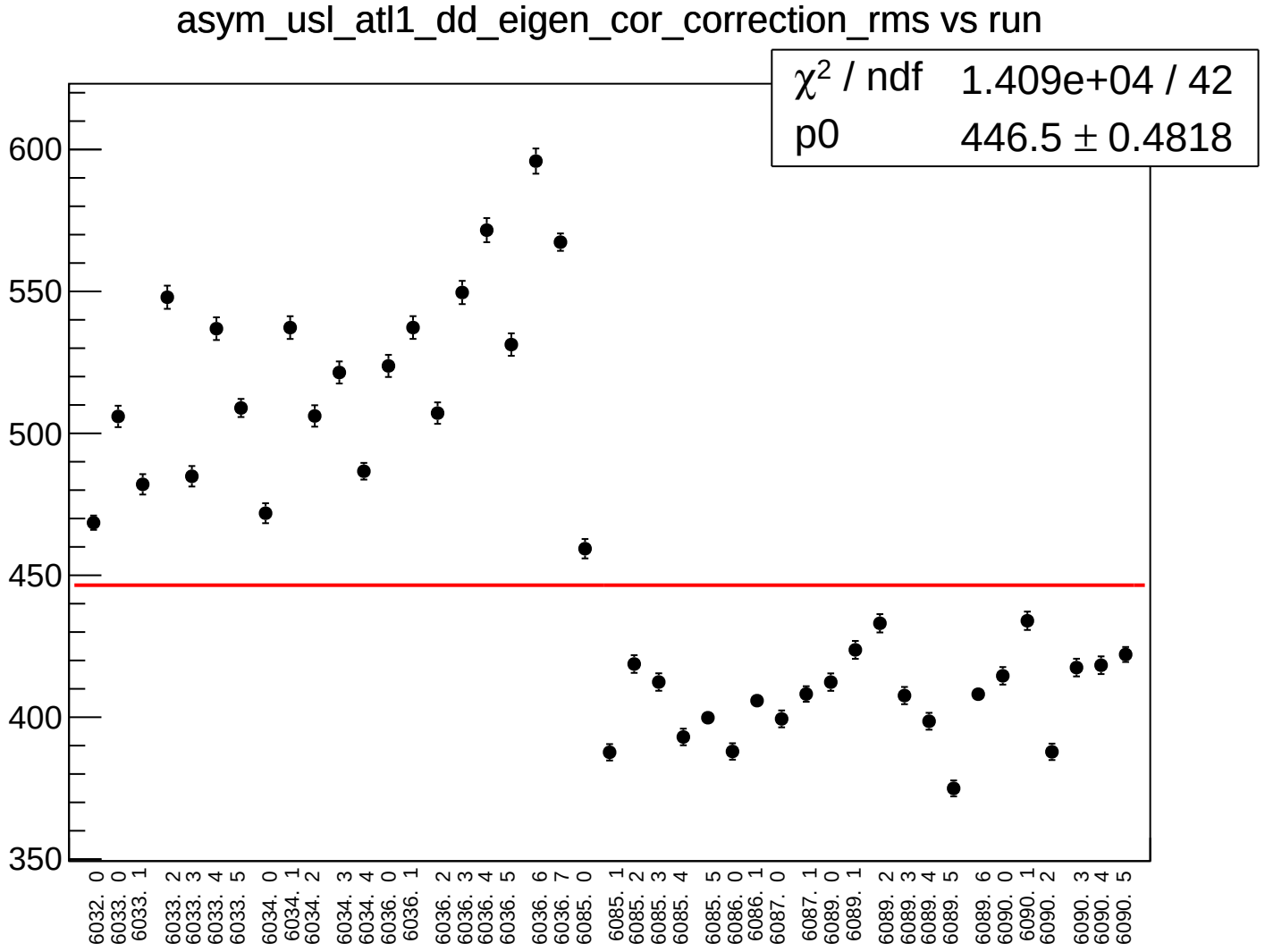

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.409e+04 / 42
p0 446.5 ± 0.4818
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

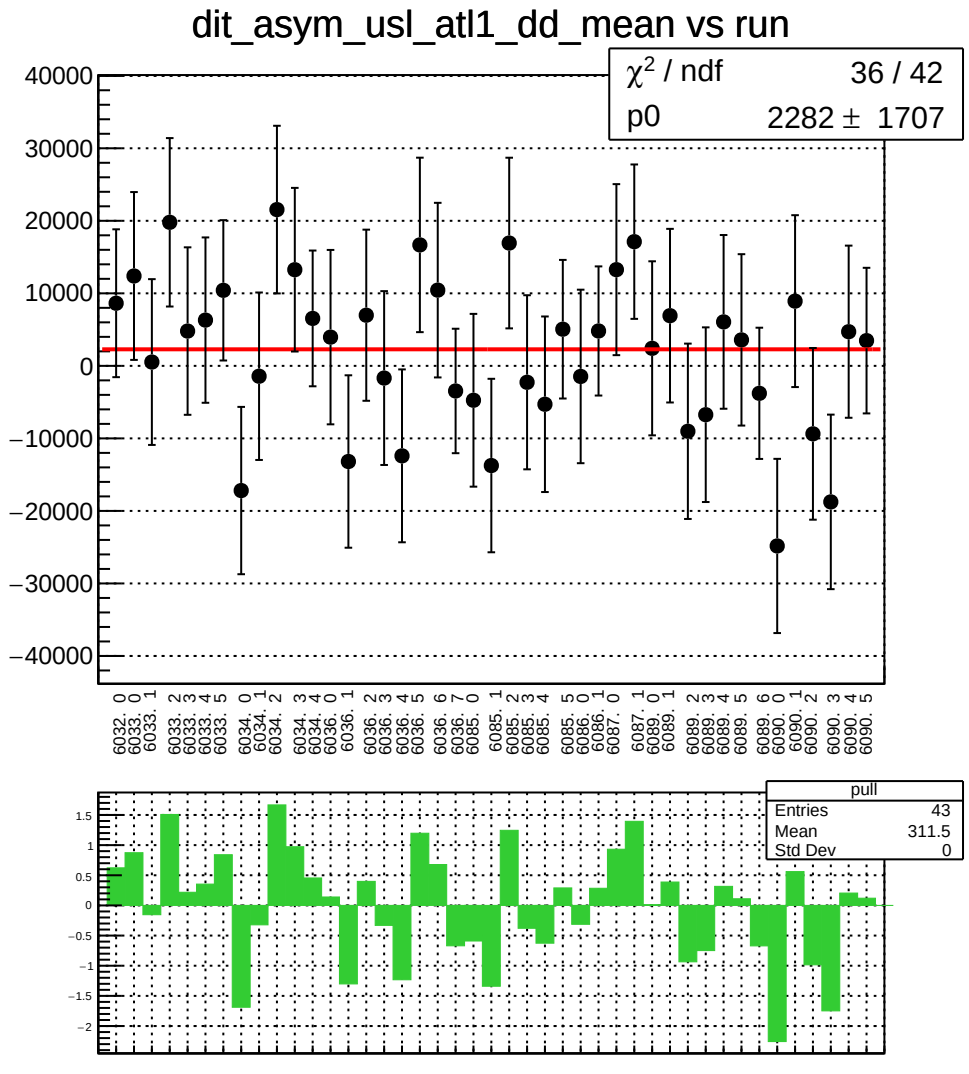

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 36.49 / 42
p0 2360 ± 1706
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 329.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

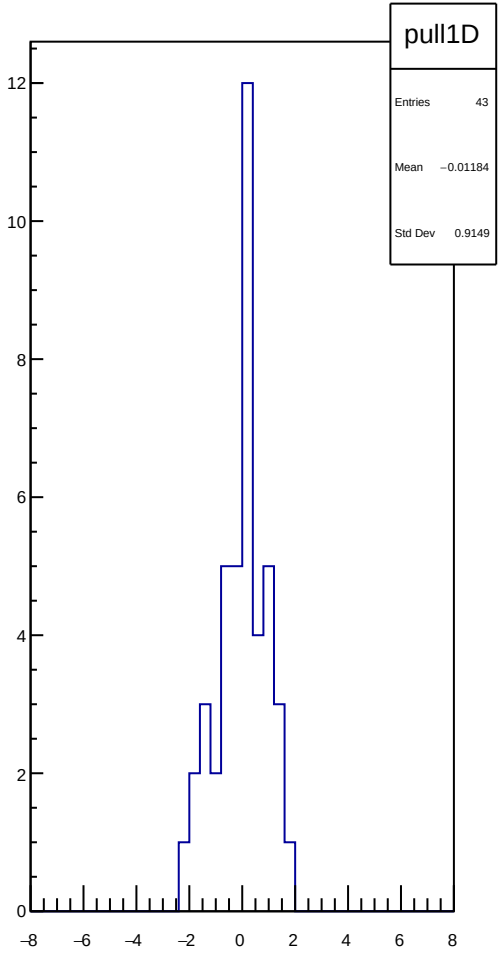

pull1D
Entries 43
Mean −0.01112
Std Dev 0.9211
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

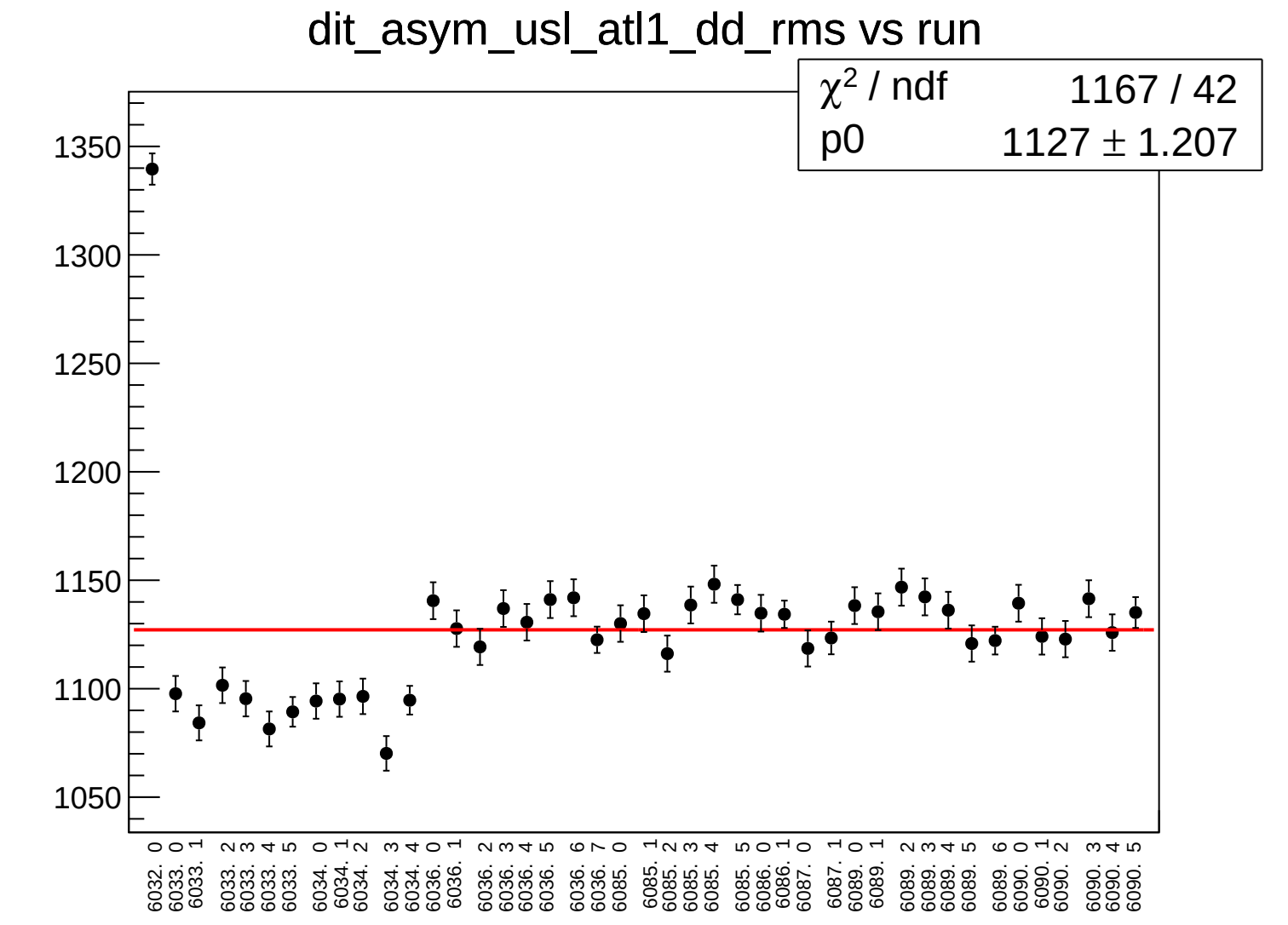

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 1167 / 42
p0 1126 ± 1.206
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

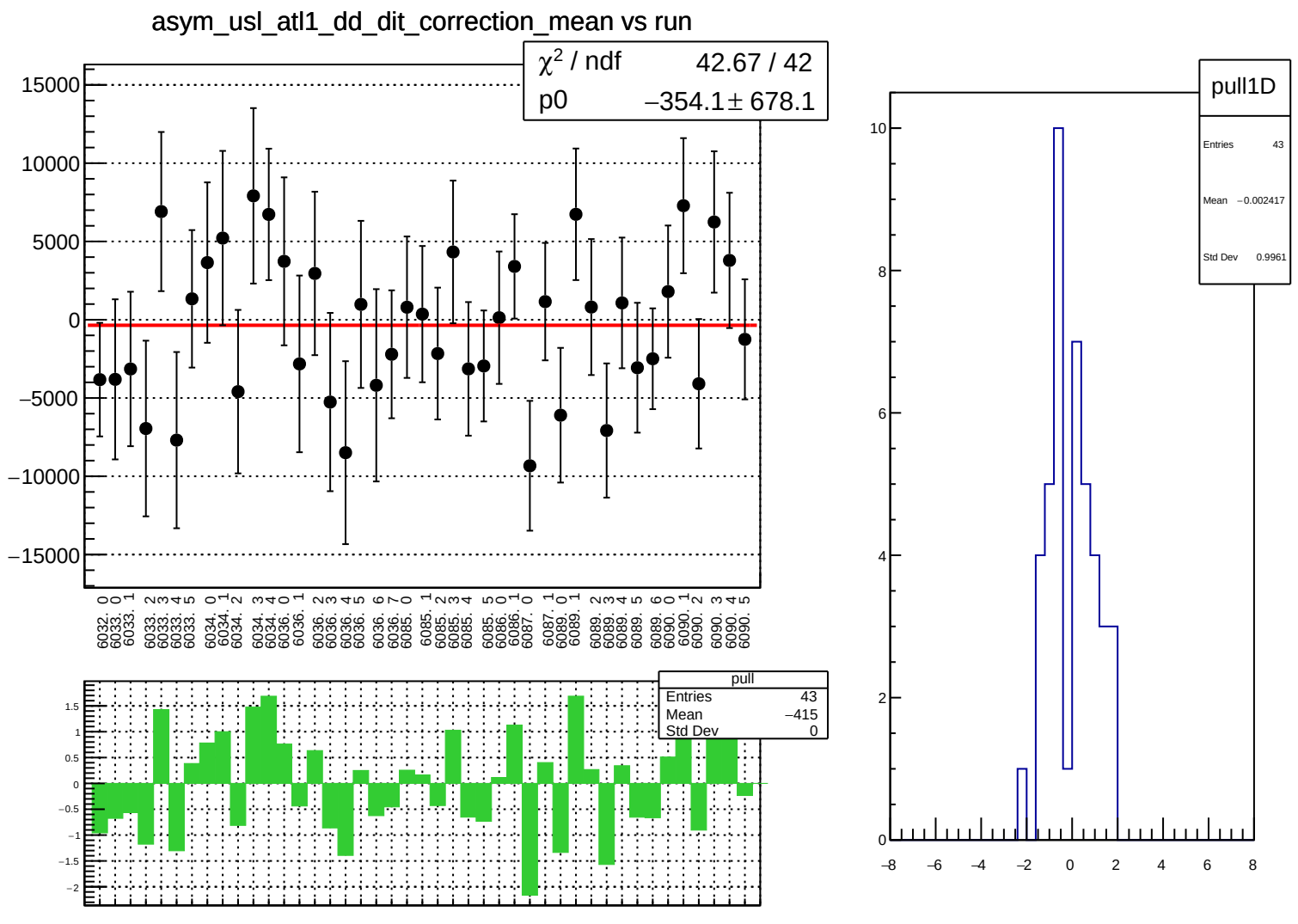

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.79 / 42
p0 −283.1± 681.3
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 887.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001112
Std Dev 0.9858
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

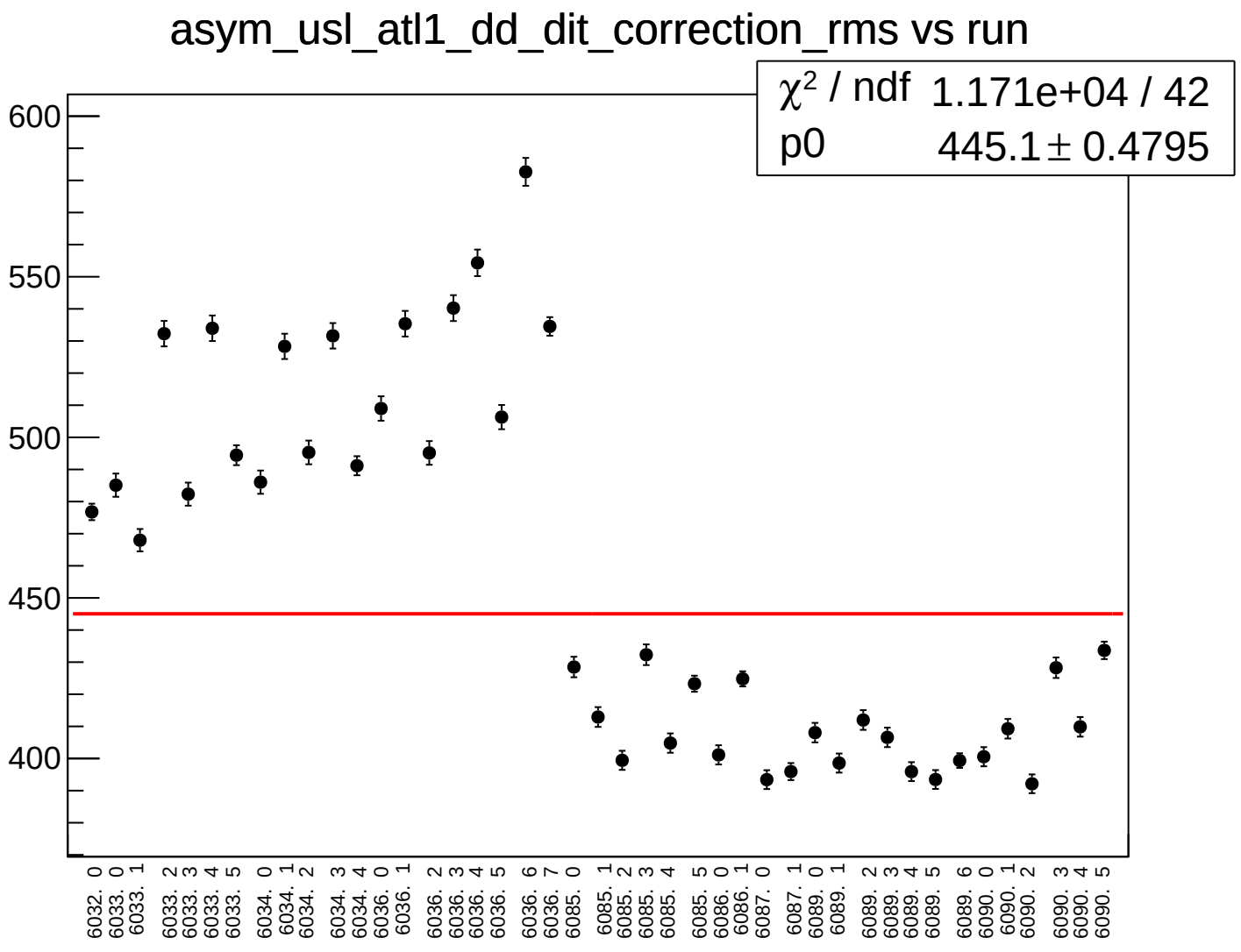

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.409e+04 / 42
p0 446.5 ± 0.4818
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

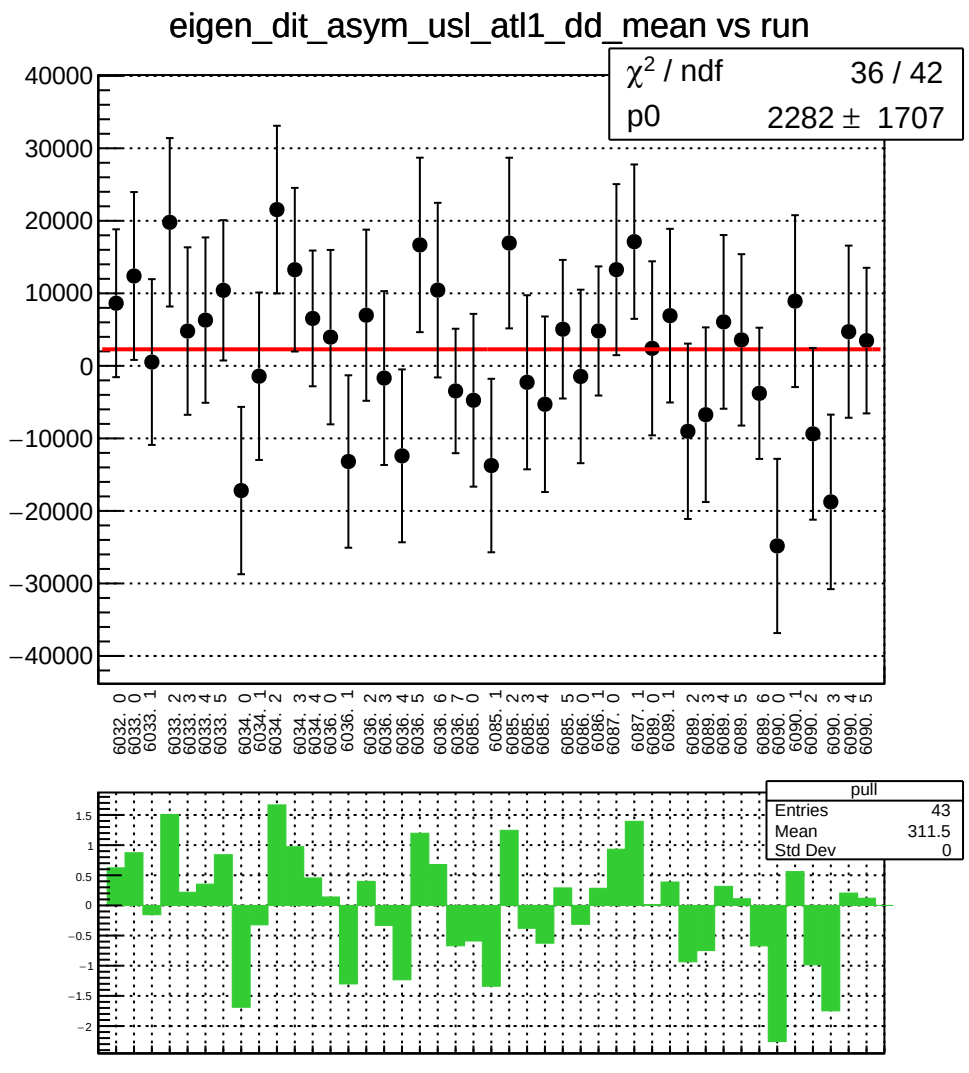

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 36 / 42
p0 2282 ± 1707
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 311.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

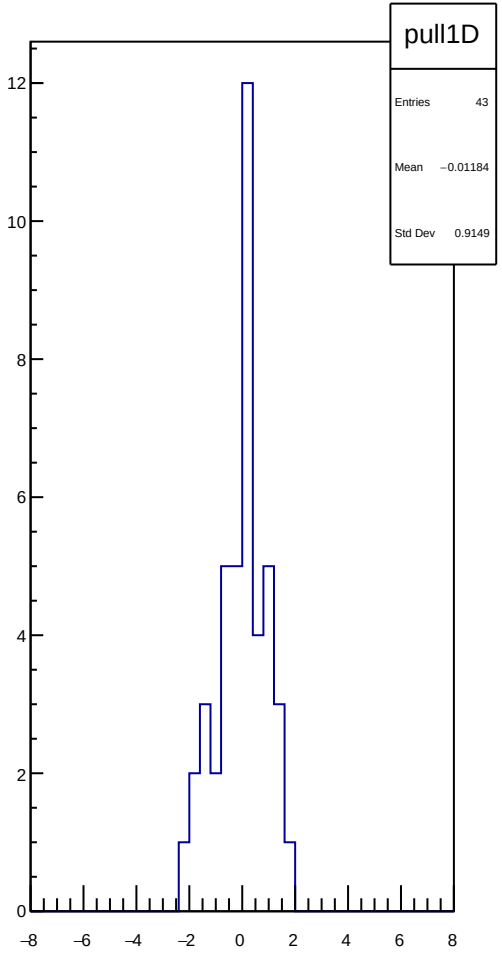

pull1D
Entries 43
Mean −0.01184
Std Dev 0.9149
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

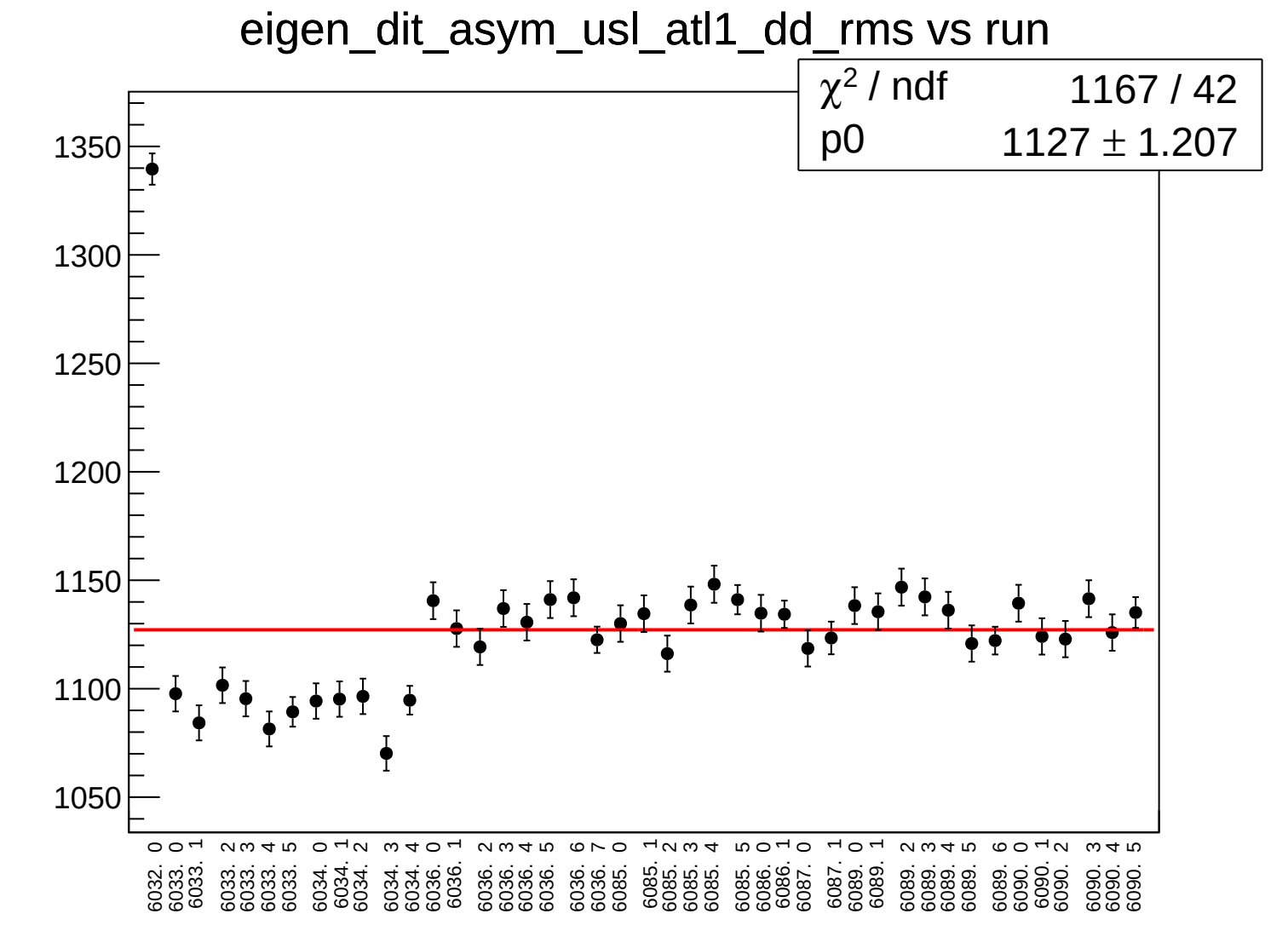

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1167 / 42
p0 1127 ± 1.207
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

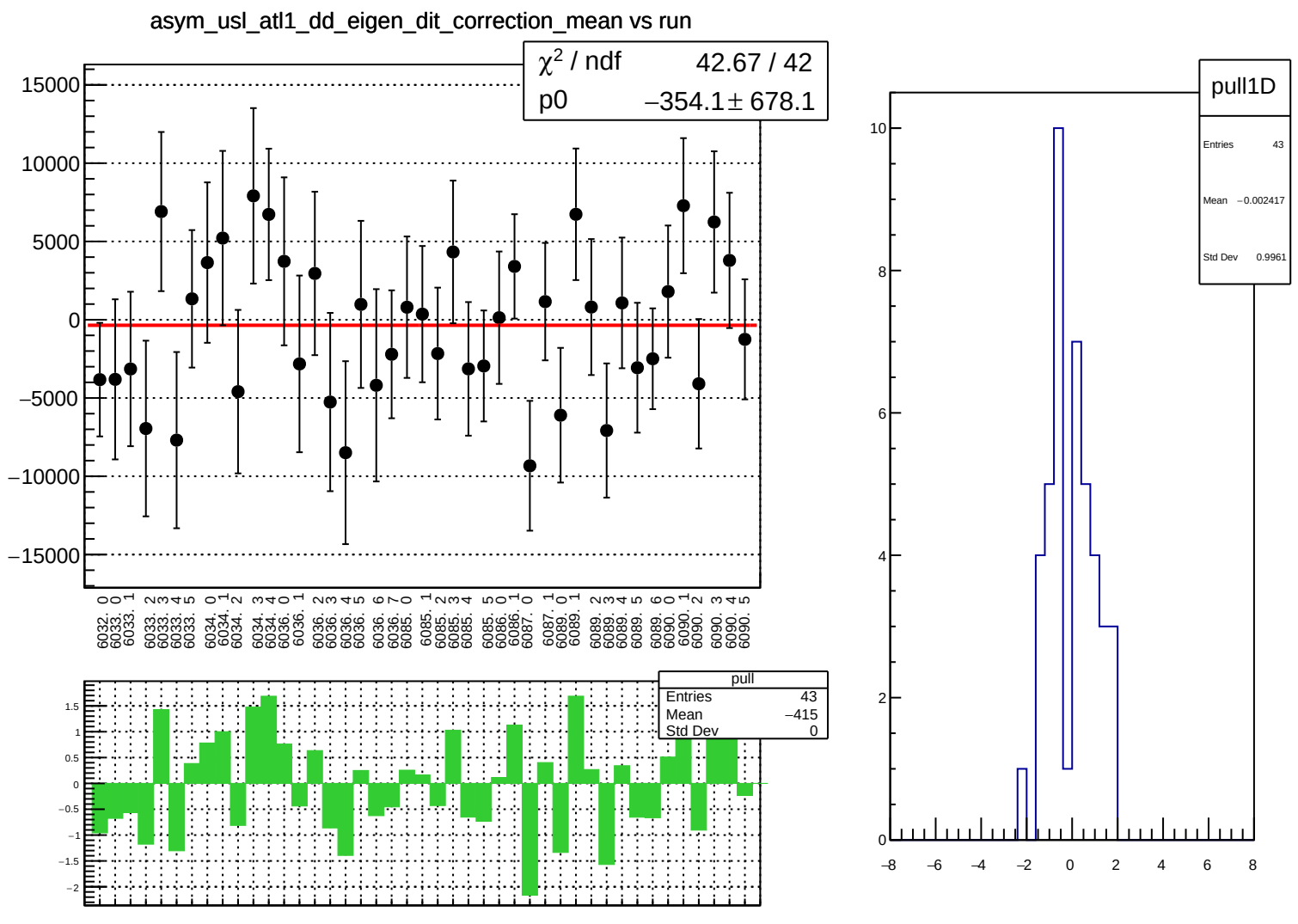

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 42.67 / 42
p0 −354.1 ± 678.1
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −415
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002417
Std Dev 0.9961
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

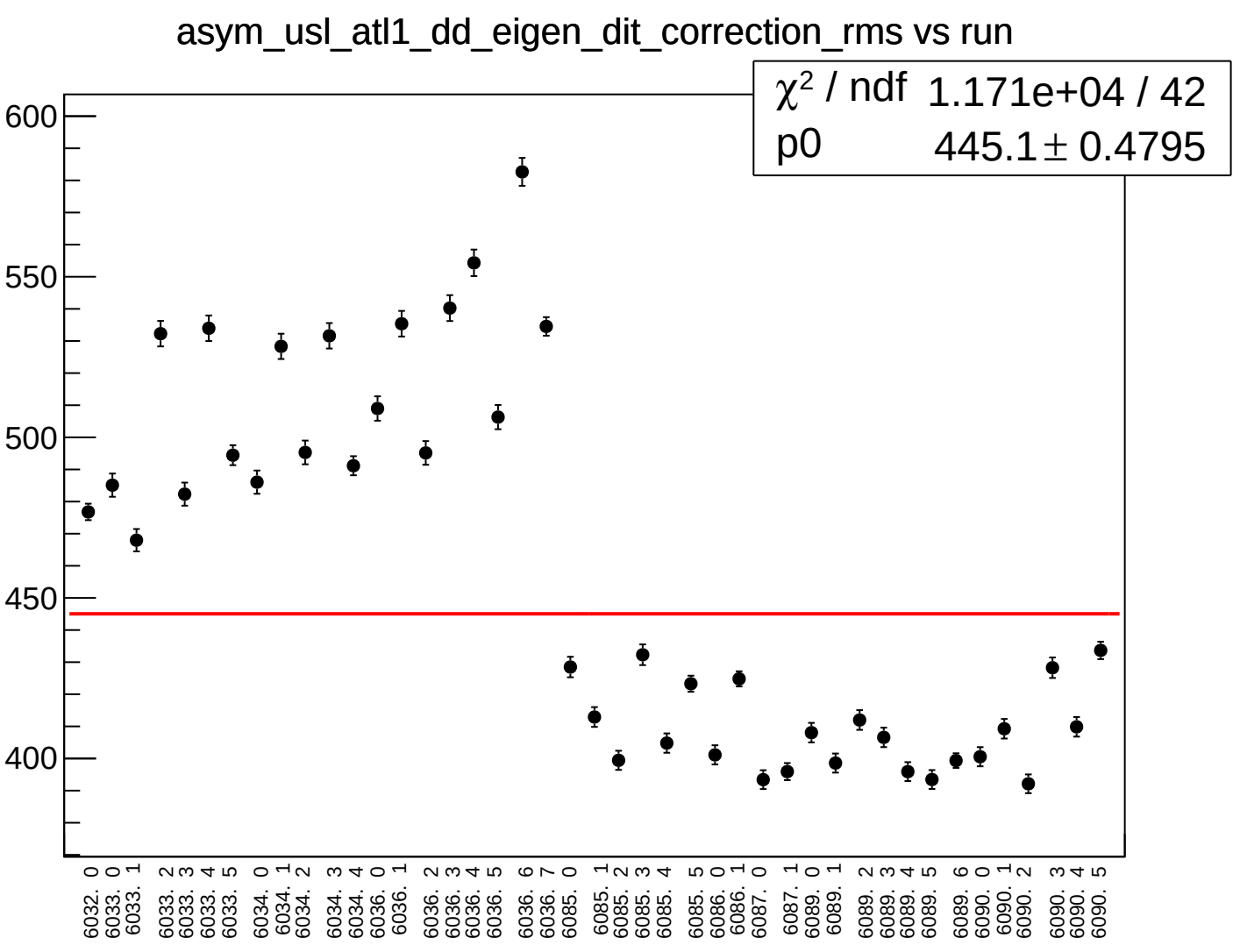

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.171e+04 / 42
p0 445.1 ± 0.4795
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

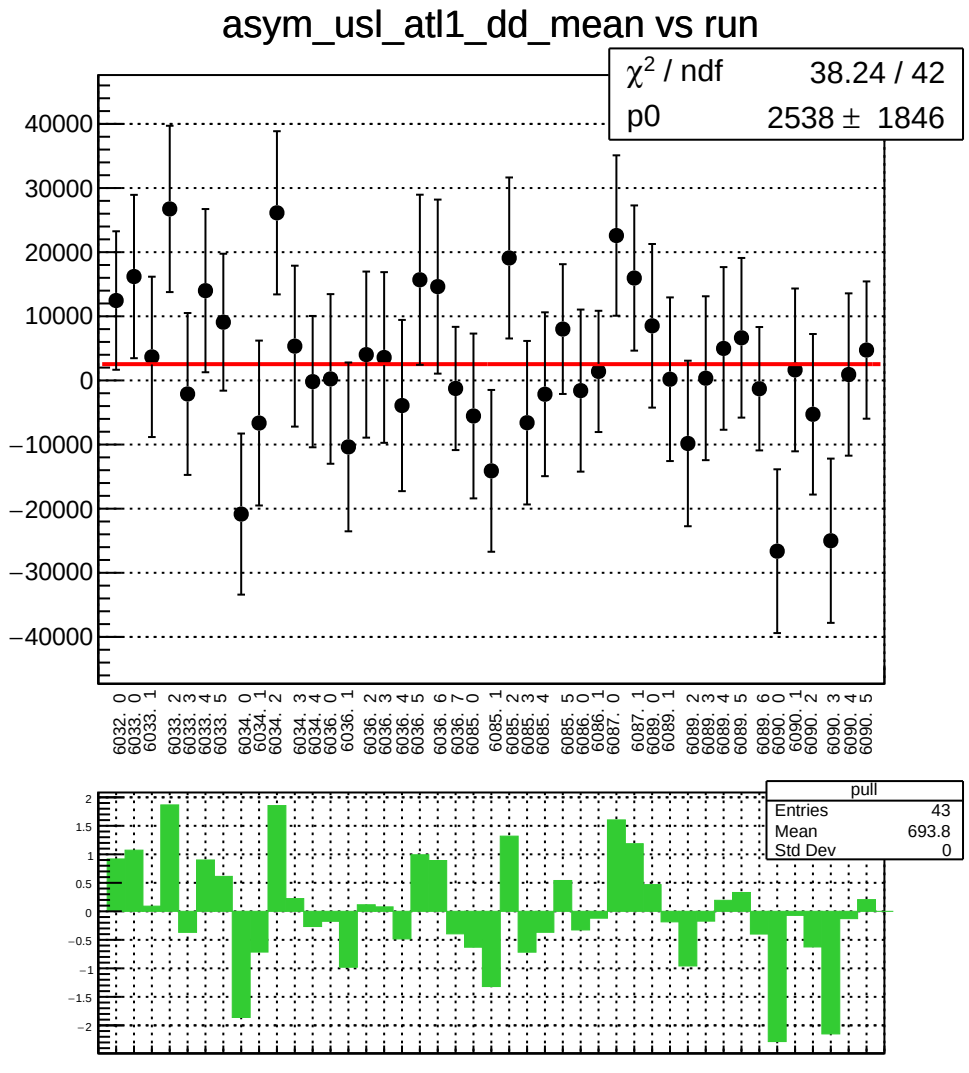

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 36 / 42
p0 2282 ± 1707
pull
Entries 43
Mean 311.5
Std Dev 0

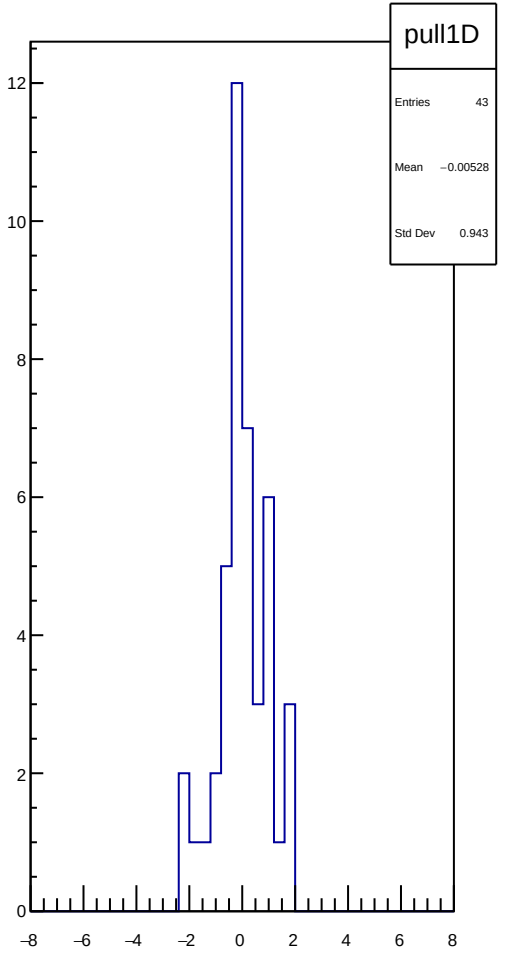

pull1D
Entries 43
Mean −0.01184
Std Dev 0.9149

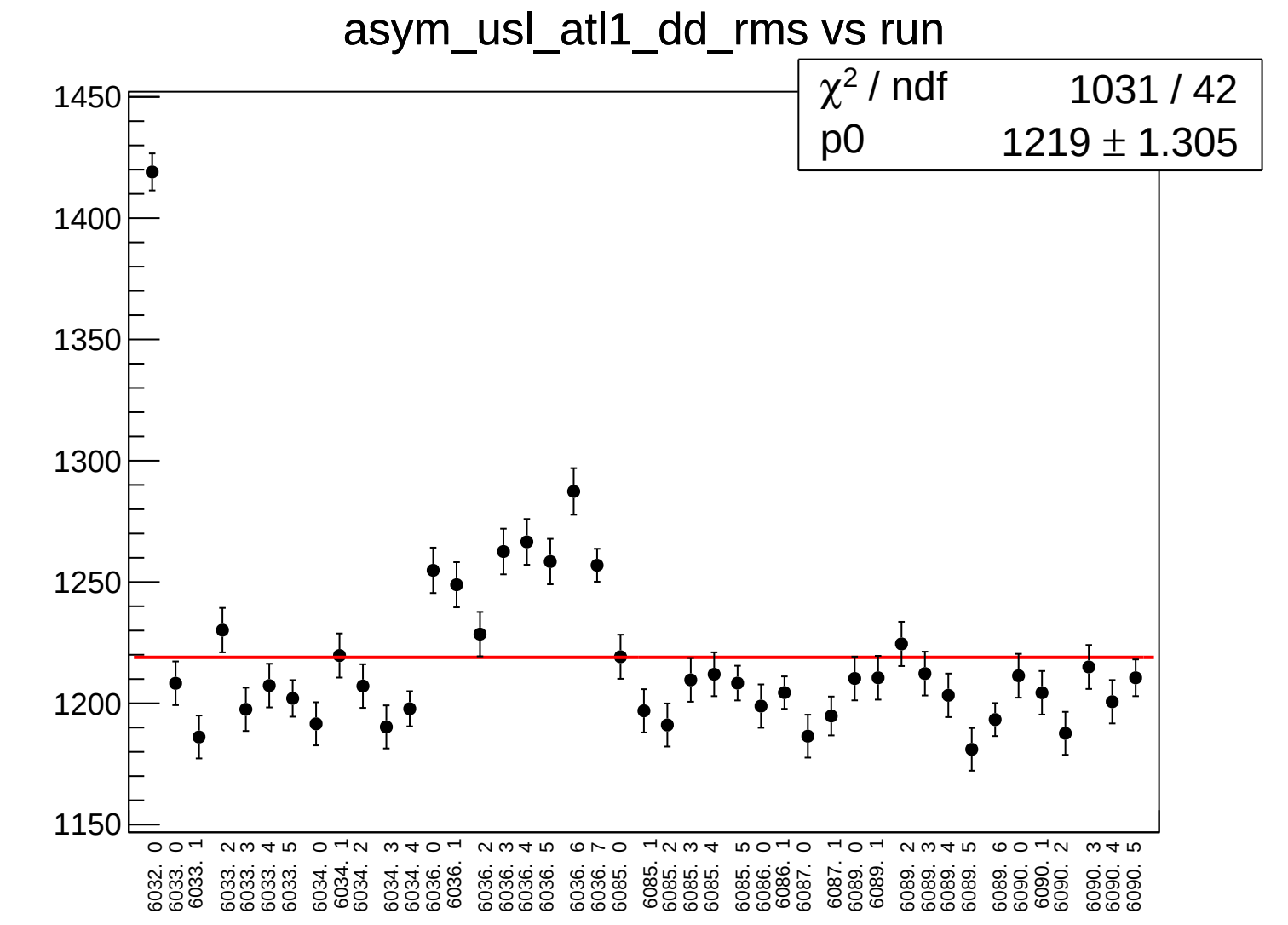

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1167 / 42
p0 1127 ± 1.207
1350
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

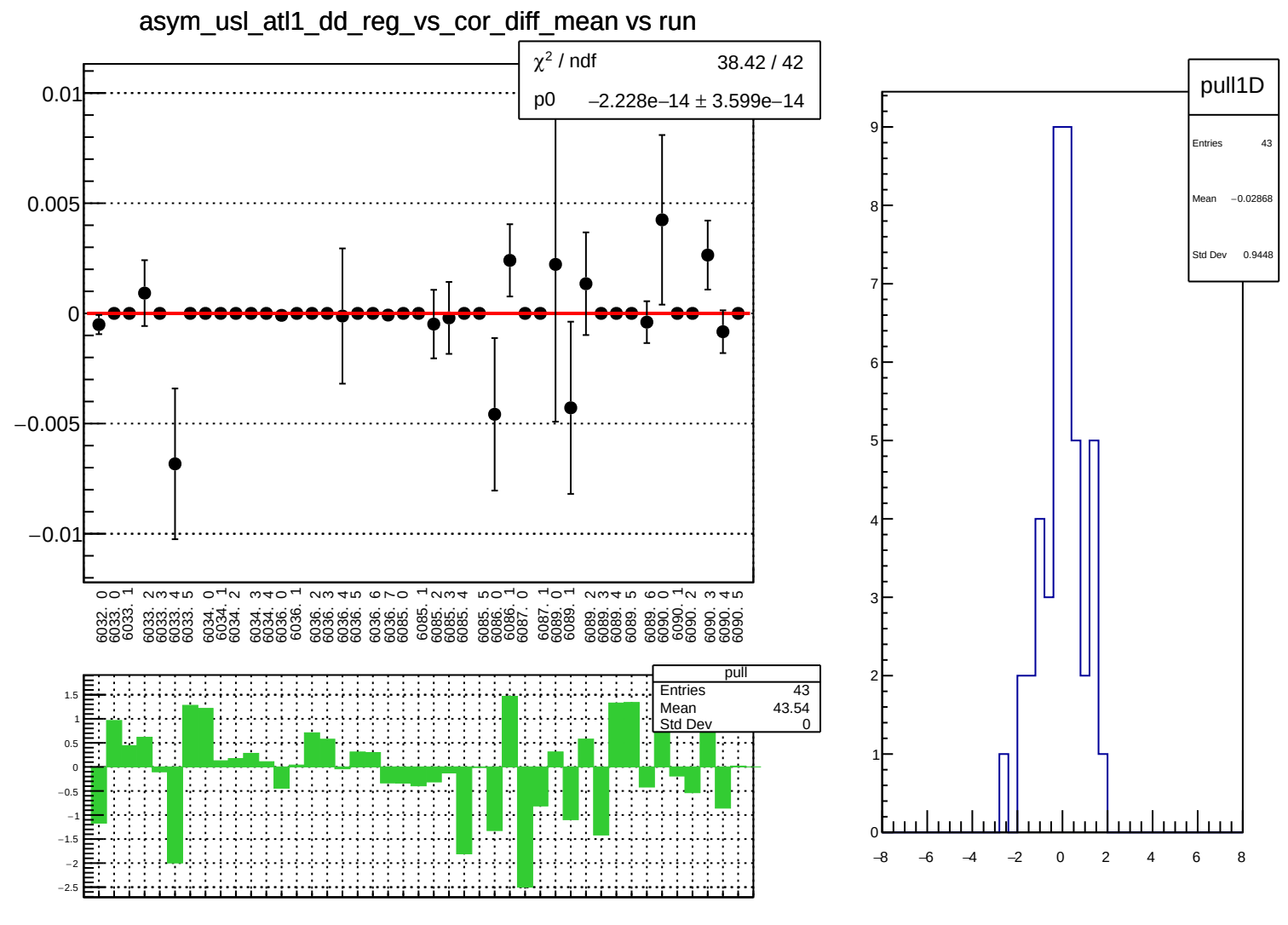

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.67 / 42
p0 −354.1 ± 678.1
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −415
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002417
Std Dev 0.9961
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

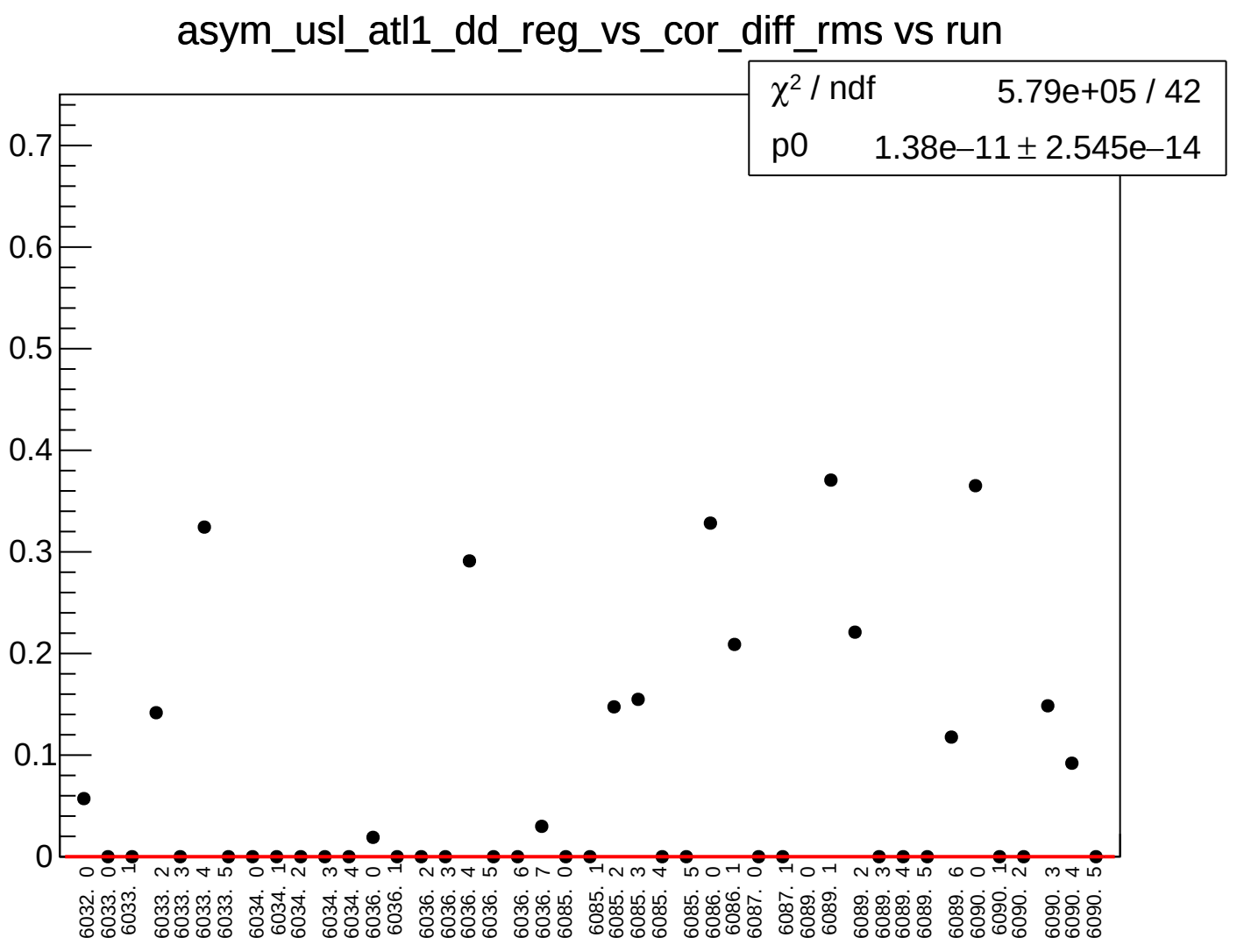

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.171e+04 / 42
p0 445.1 ± 0.4795
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

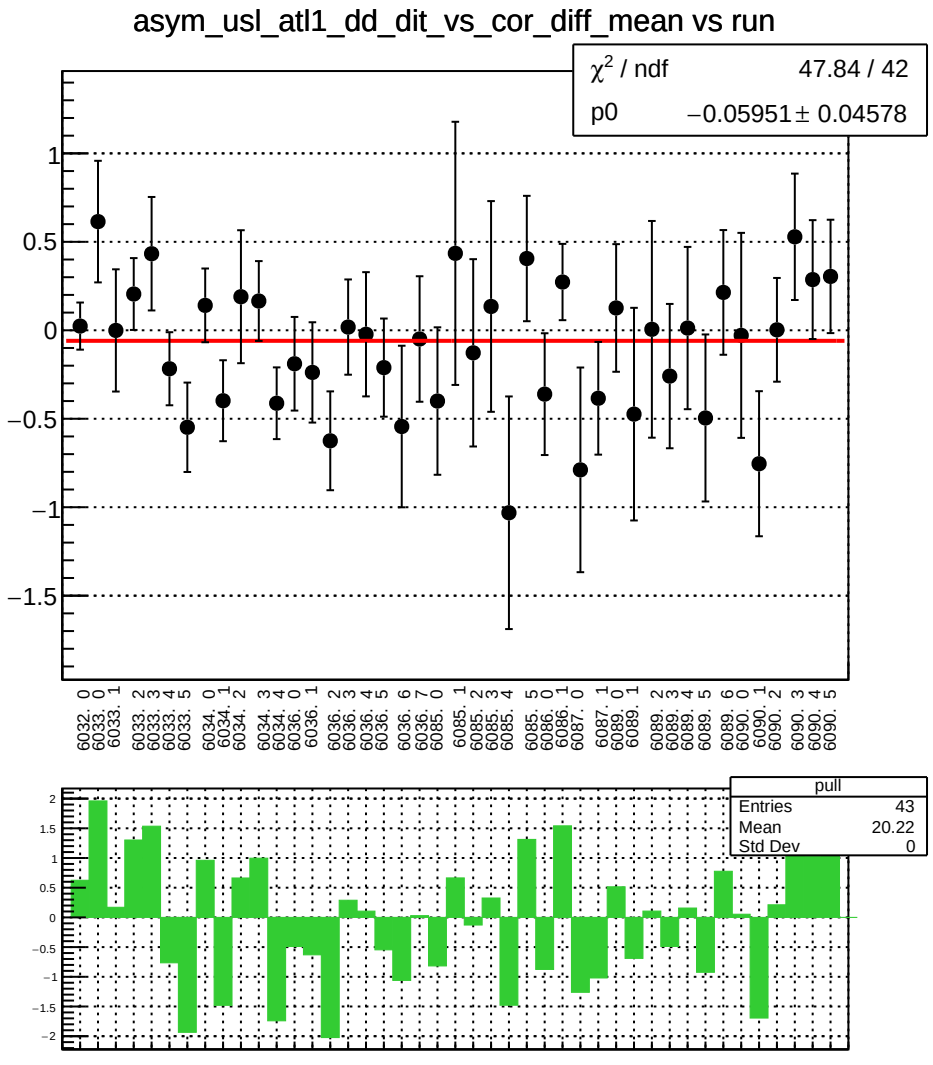

asym_usl_atl1_dd_mean vs run
χ² / ndf 38.24 / 42
p0 2538 ± 1846
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 693.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

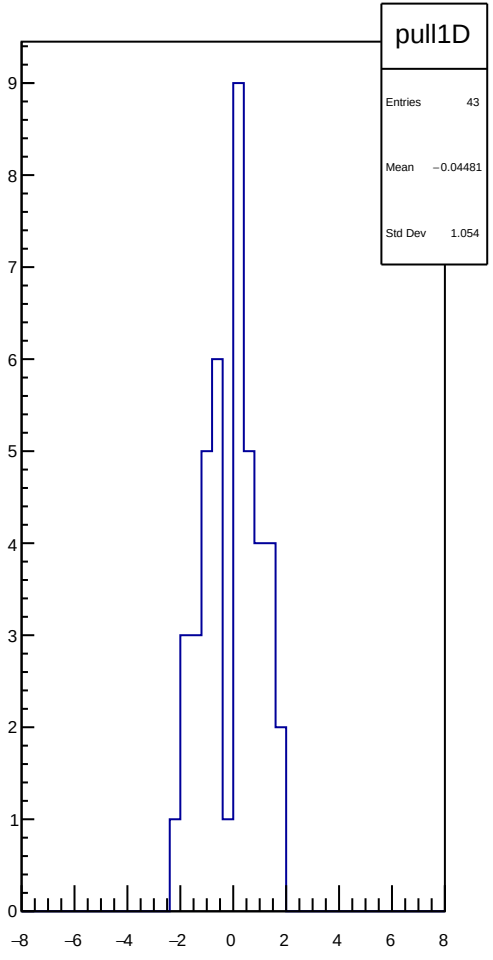

pull1D
Entries 43
Mean −0.00528
Std Dev 0.943
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

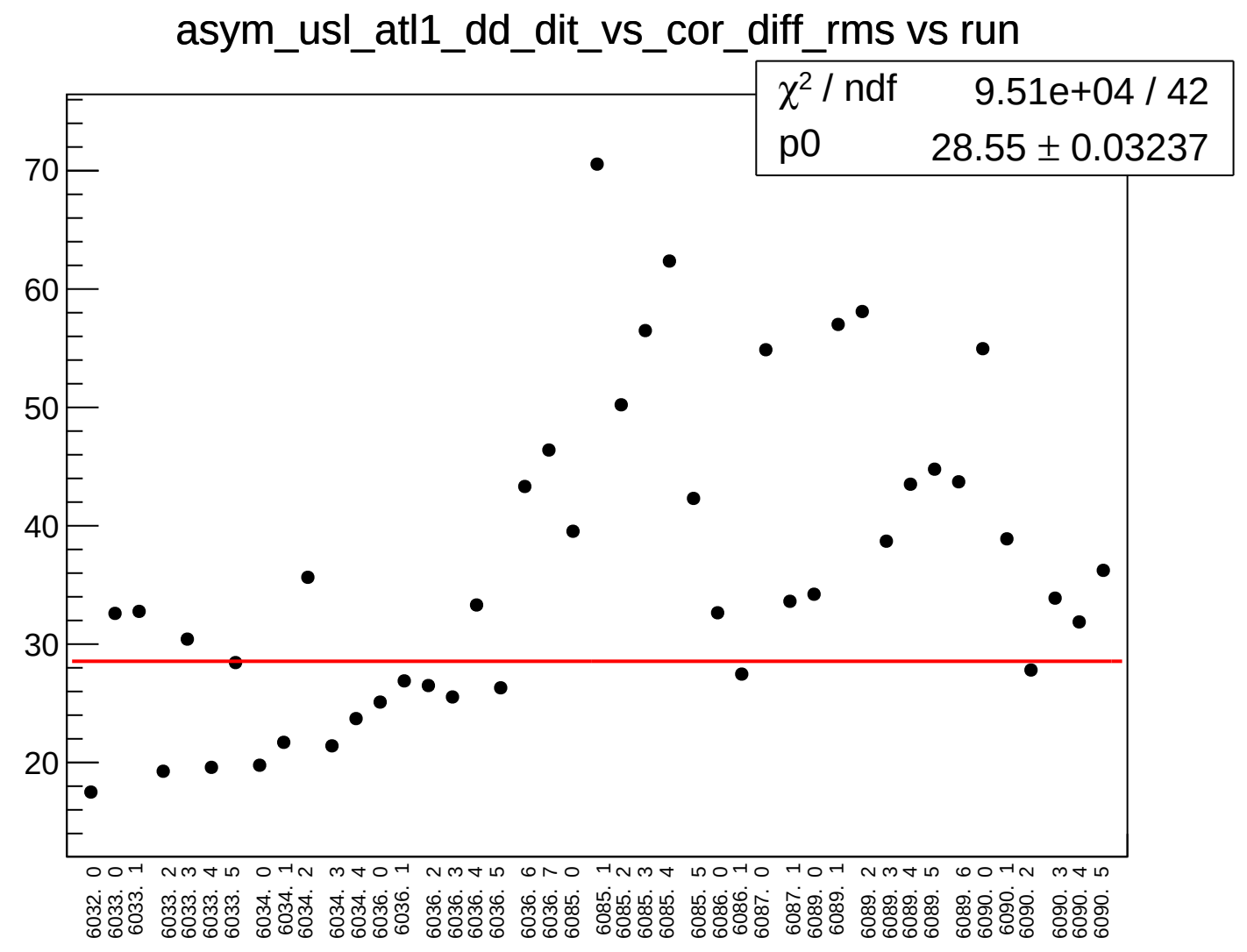

asym_usl_atl1_dd_rms vs run
χ² / ndf 1031 / 42
p0 1219 ± 1.305
1450
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

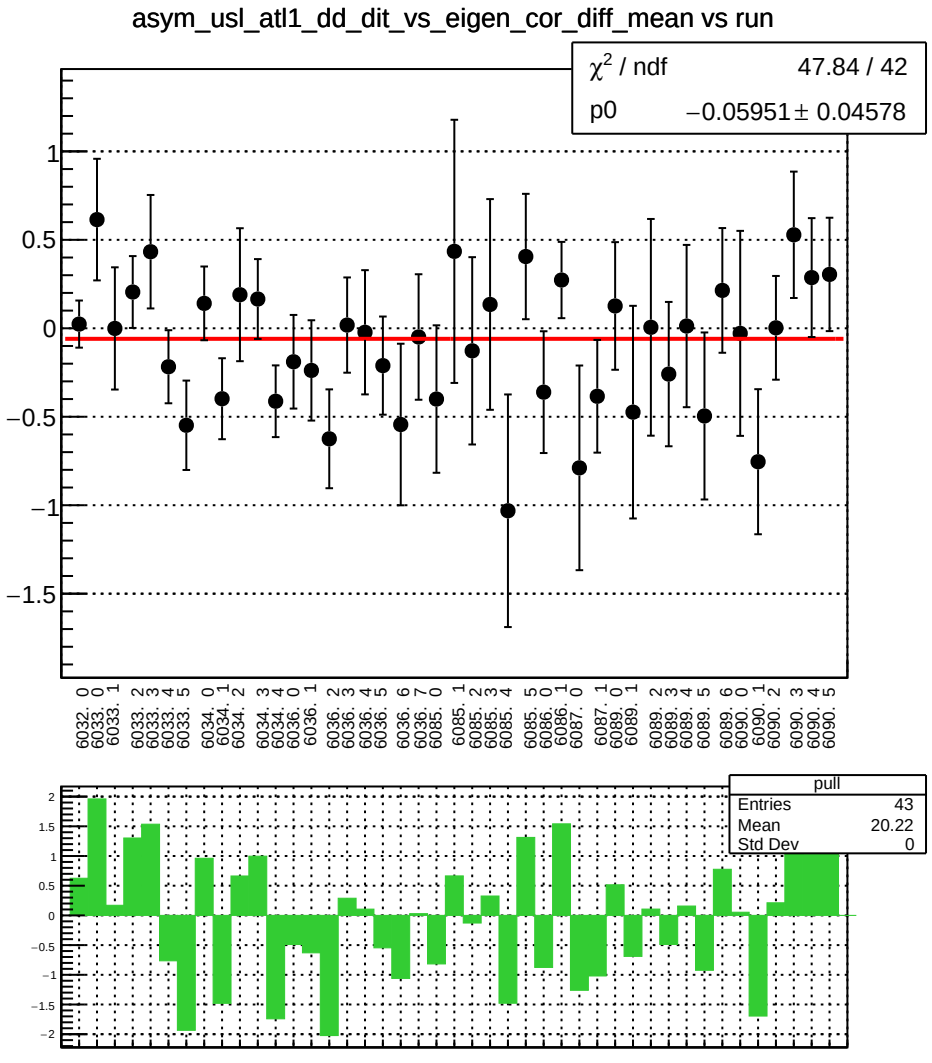

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.42 / 42
p0 −2.228e−14 ± 3.599e−14
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 43.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02868
Std Dev 0.9448
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

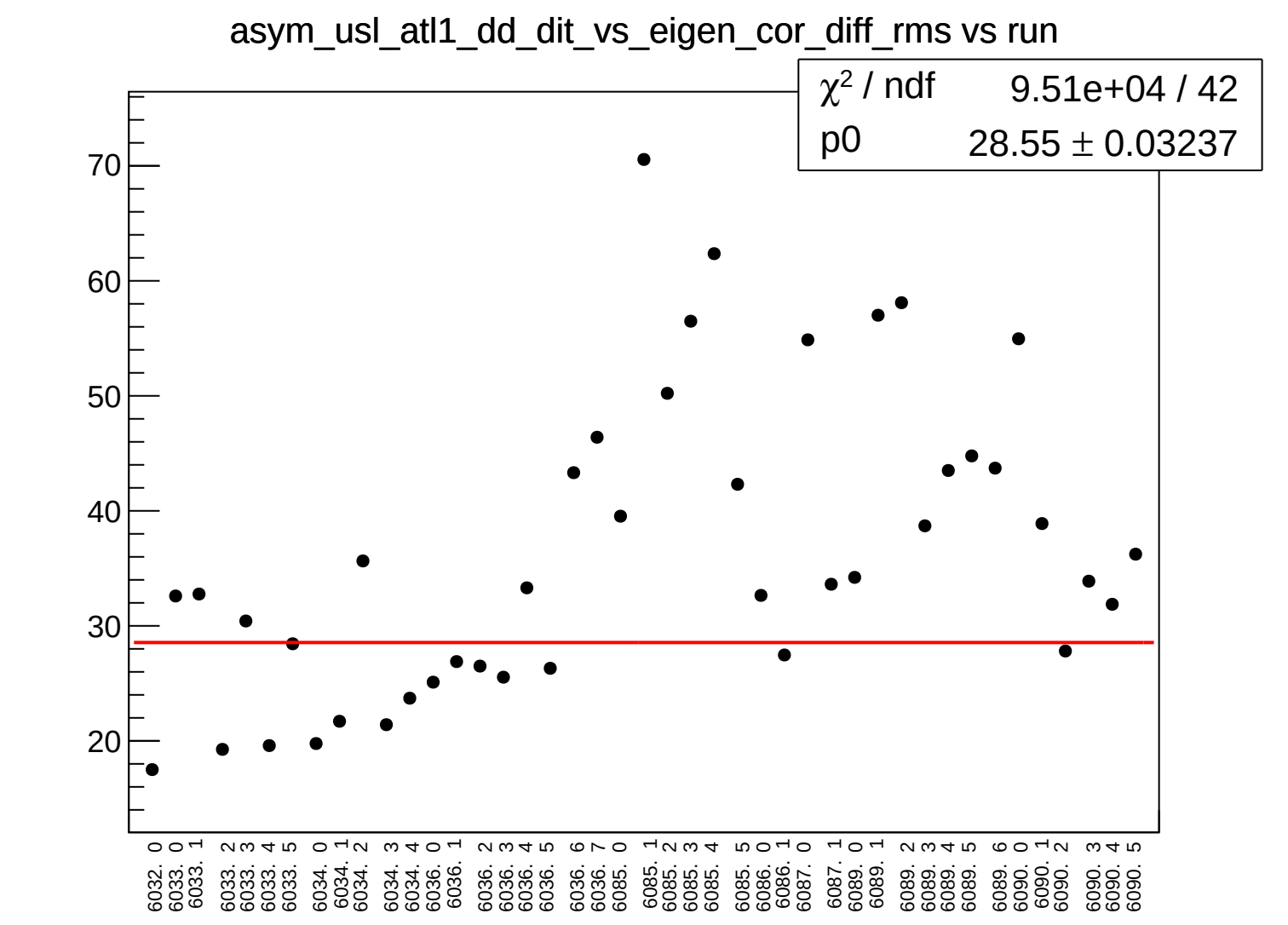

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.79e+05 / 42
p0 1.38e−11 ± 2.545e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

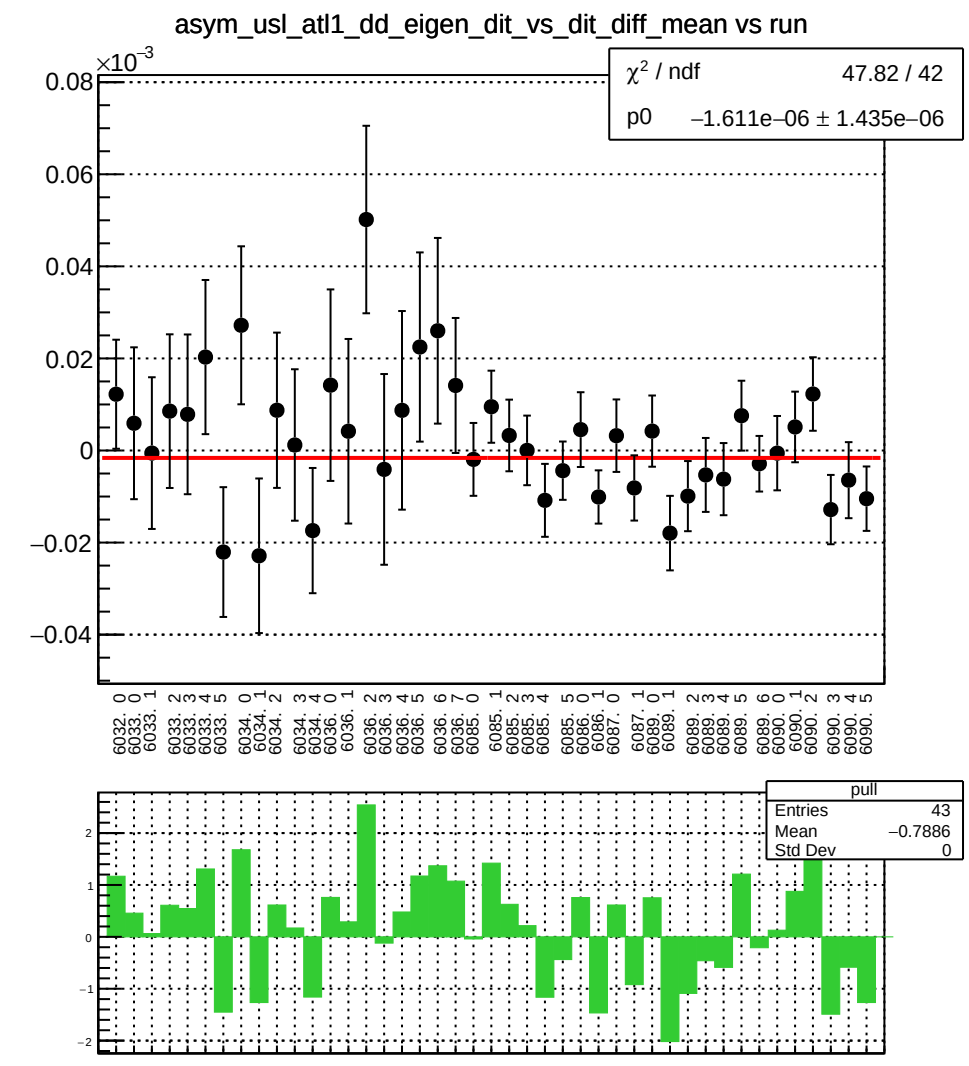

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.84 / 42
p0 −0.05951 ± 0.04578
pull
Entries 43
Mean 20.22
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

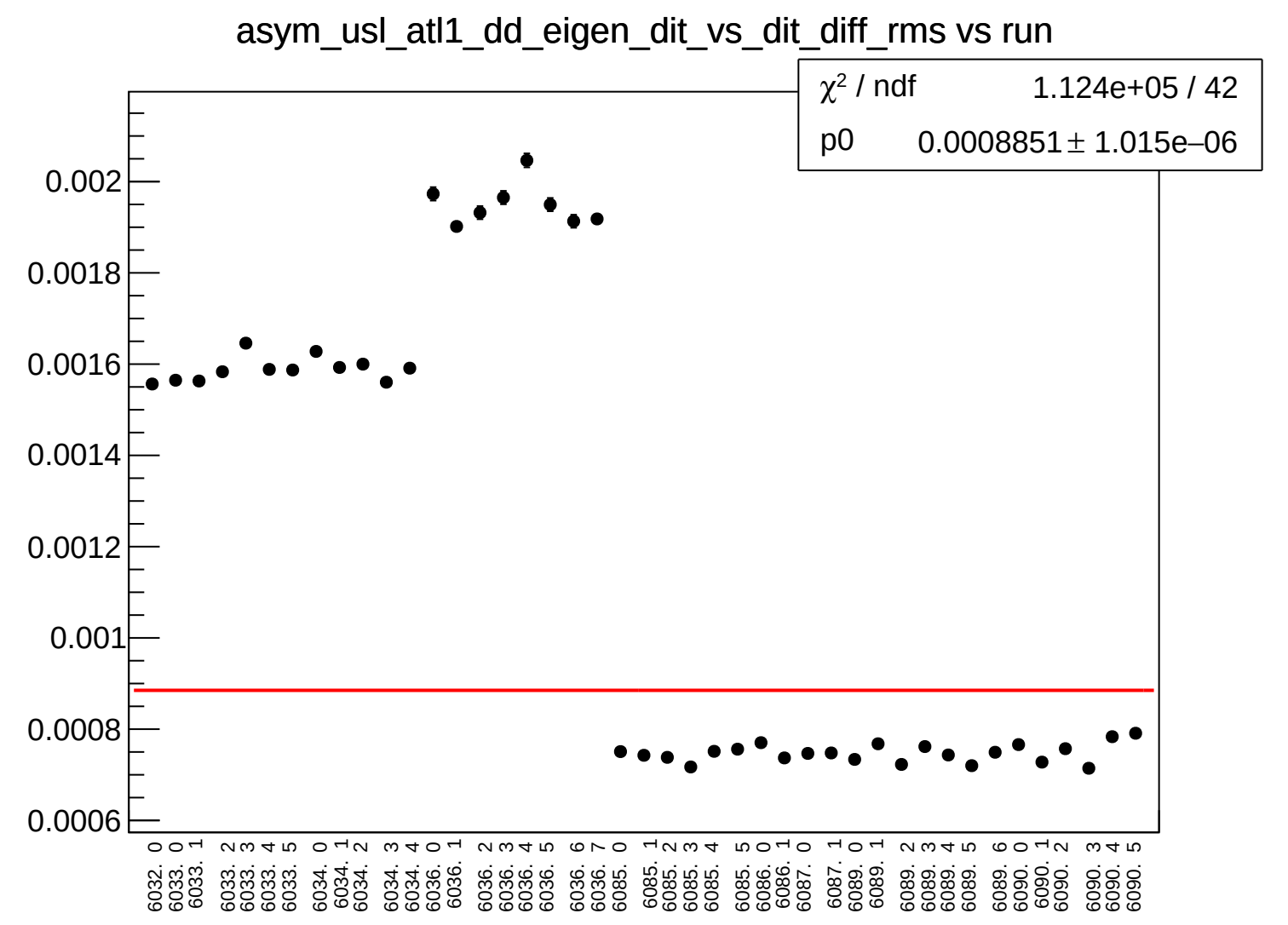

pull1D
Entries 43
Mean −0.04481
Std Dev 1.054

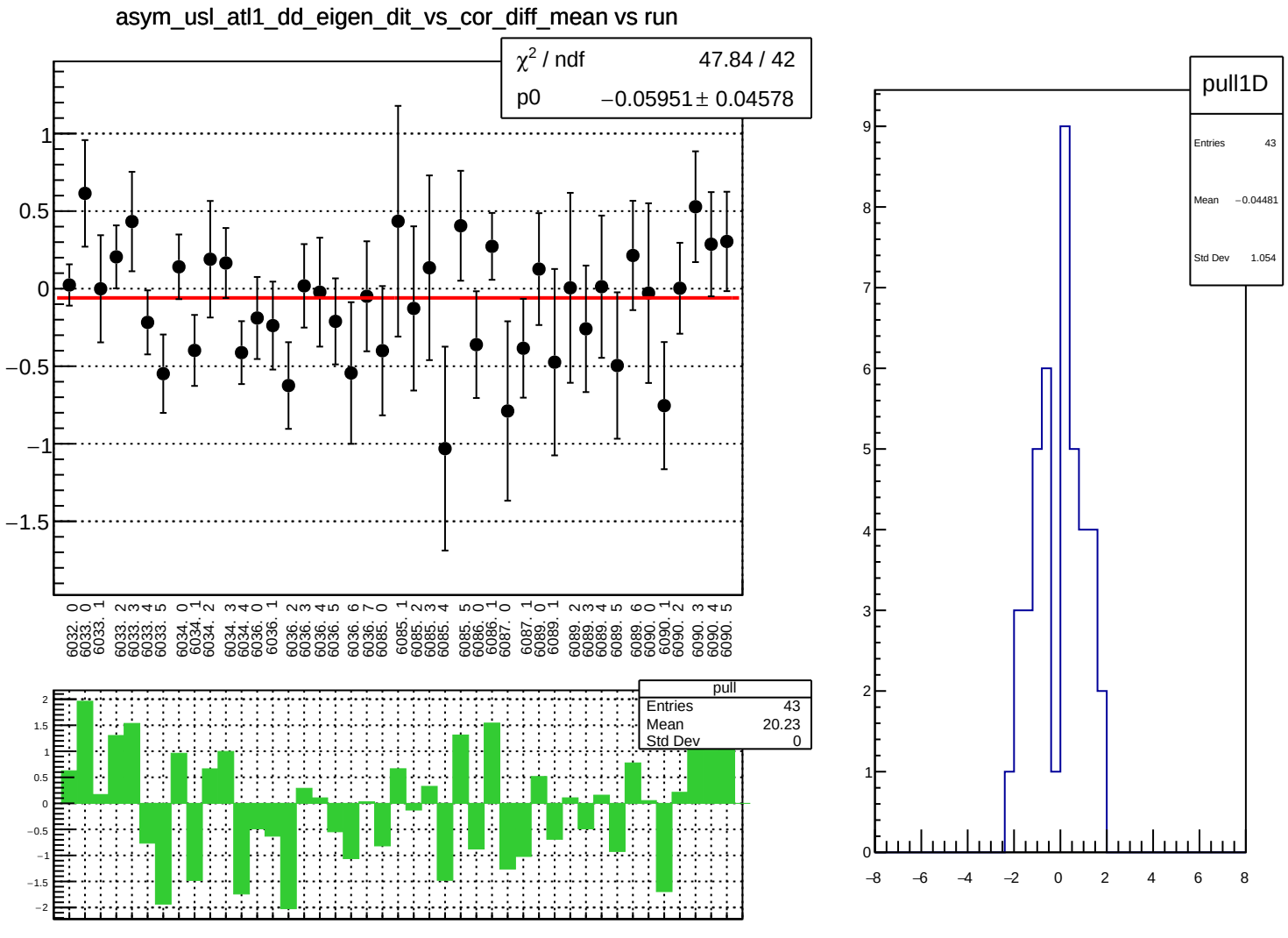

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.51e+04 / 42
p0 28.55 ± 0.03237
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

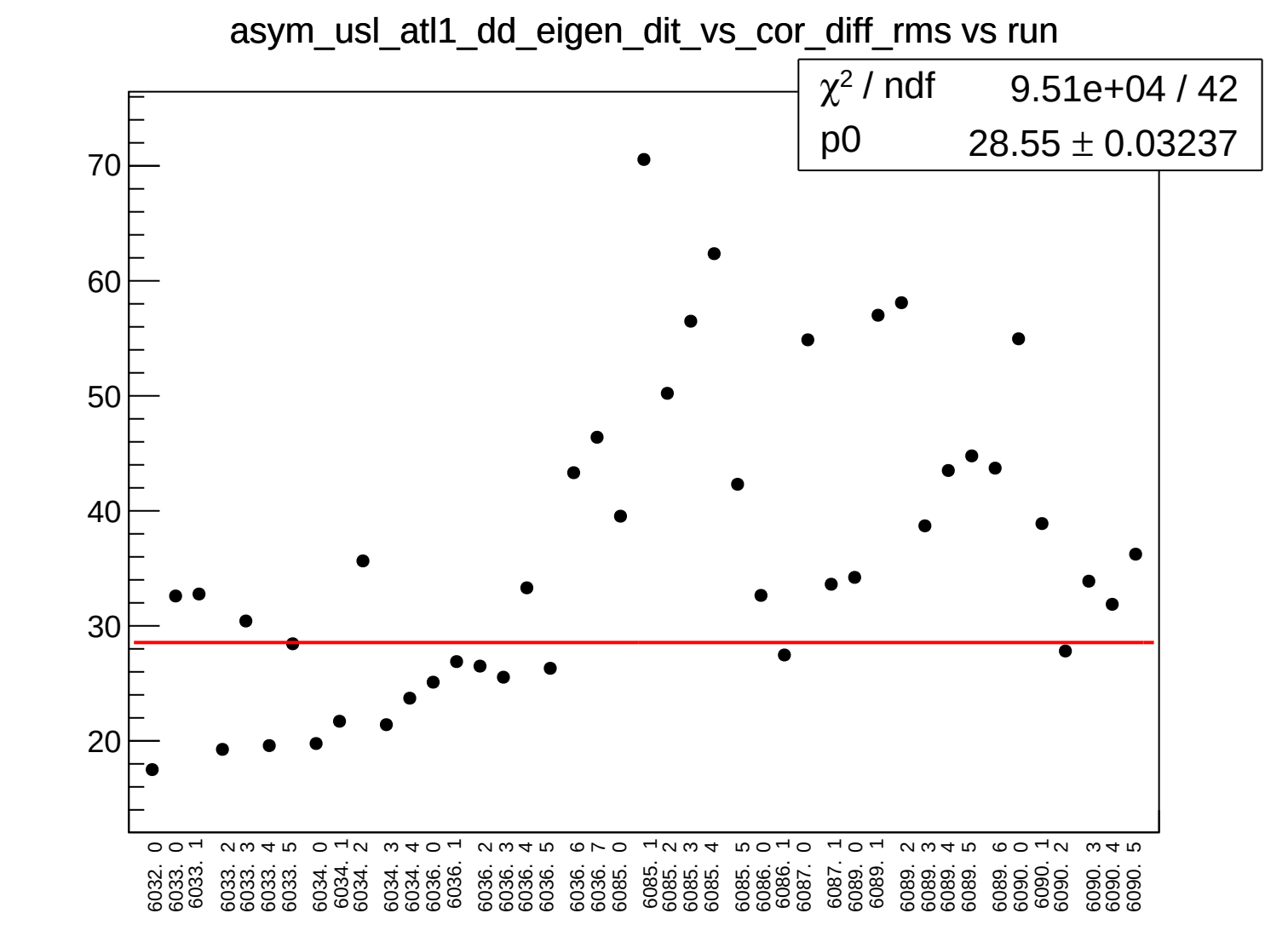

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.84 / 42
p0 −0.05951 ± 0.04578
pull
Entries 43
Mean 20.22
Std Dev 0
pull1D
Entries 43
Mean −0.04481
Std Dev 1.054


asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.51e+04 / 42
p0 28.55 ± 0.03237
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

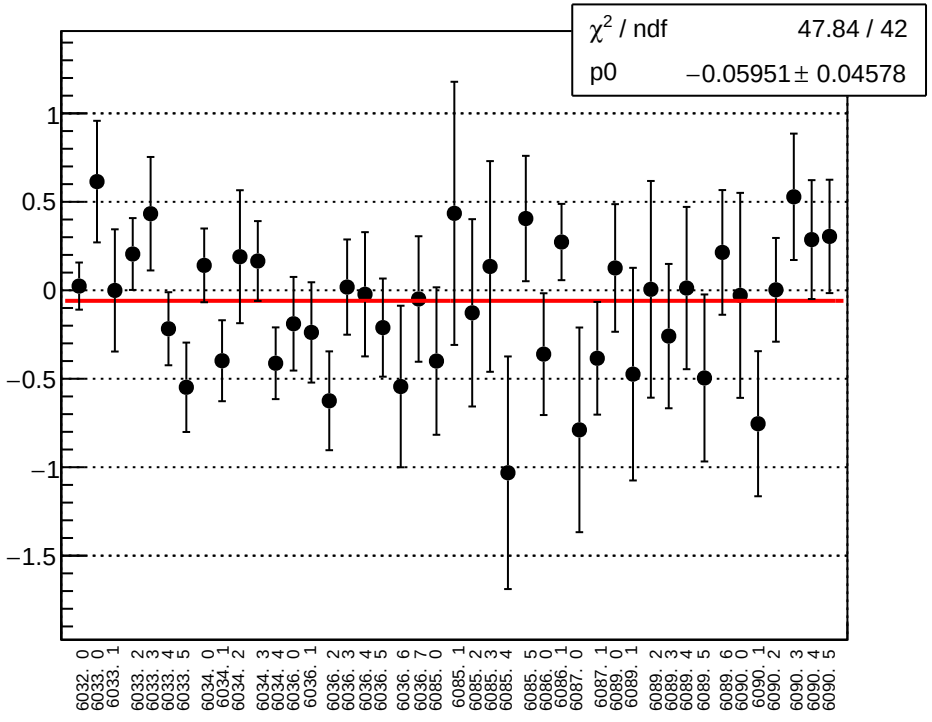

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.82 / 42
p0 −1.611e−06 ± 1.435e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.7886
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1605
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

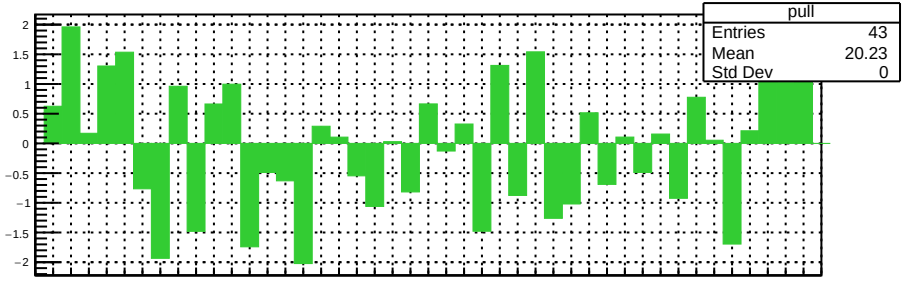

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.124e+05 / 42
p0 0.0008851 ± 1.015e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

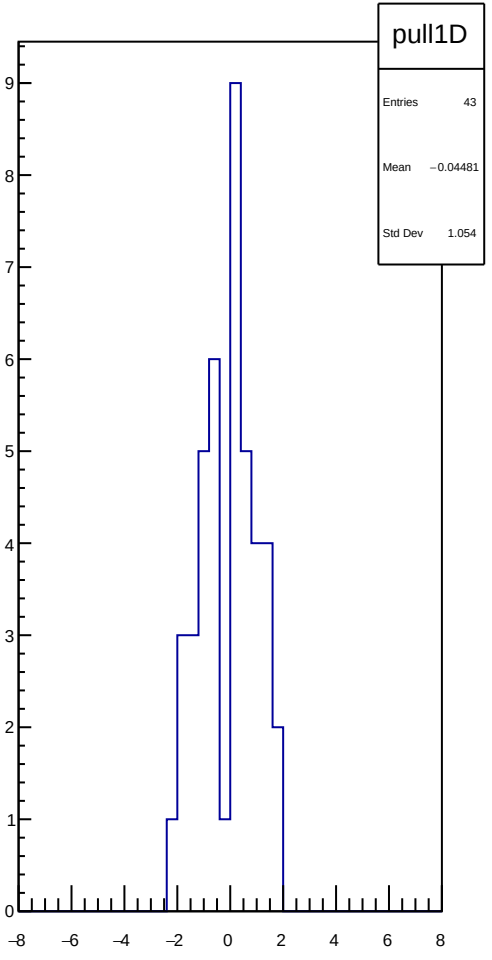

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.84 / 42
p0 −0.05951 ± 0.04578
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04481
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

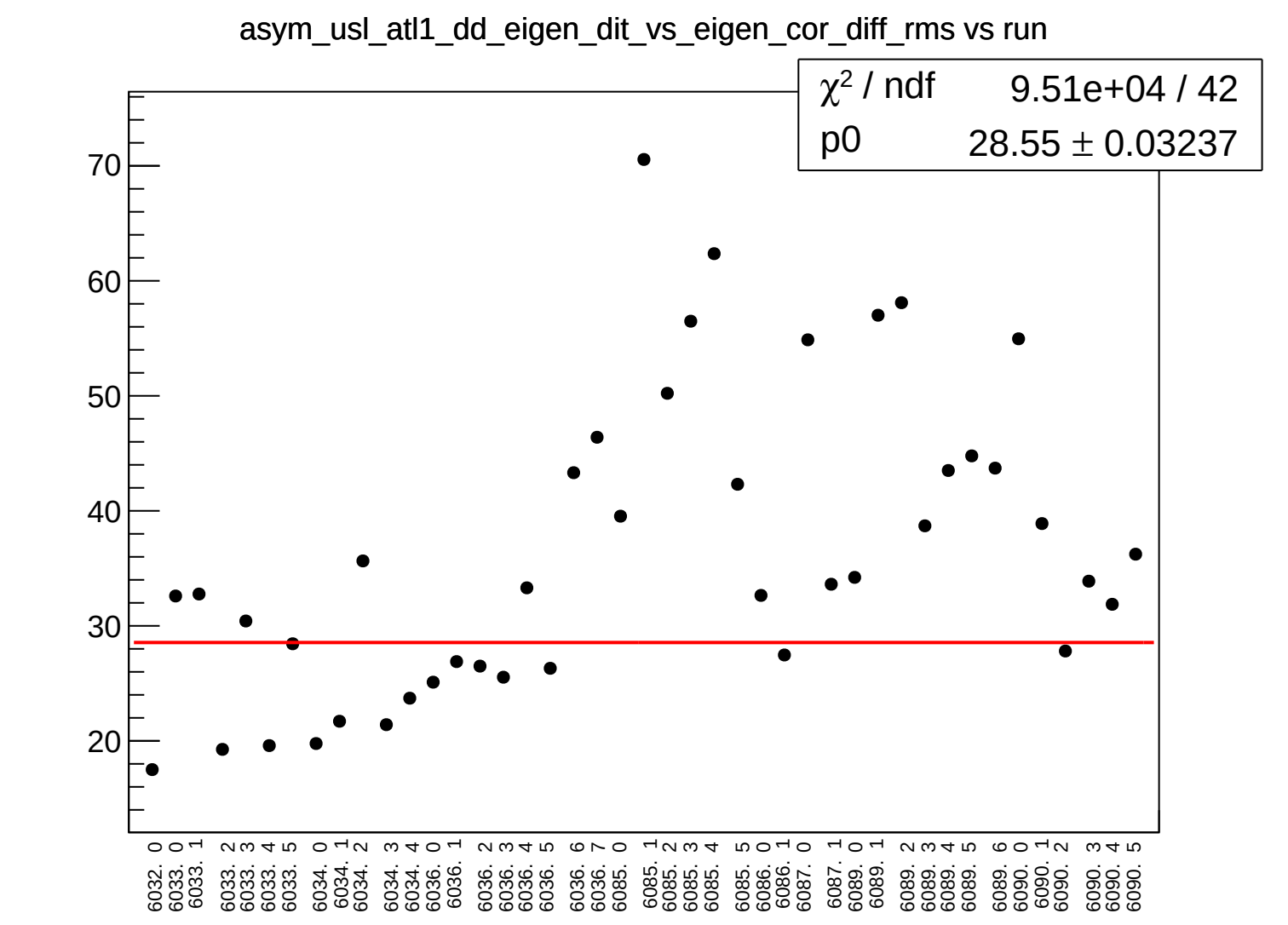

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.51e+04 / 42
p0 28.55 ± 0.03237
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

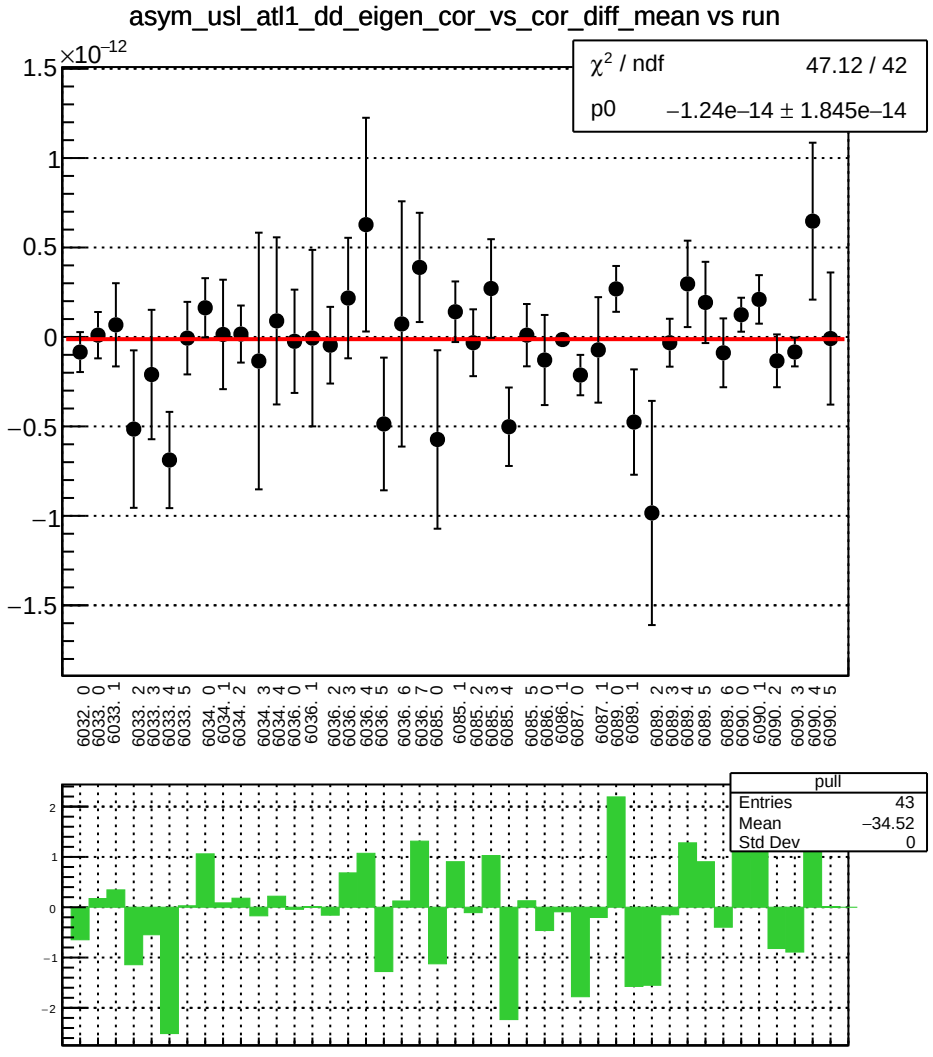
asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

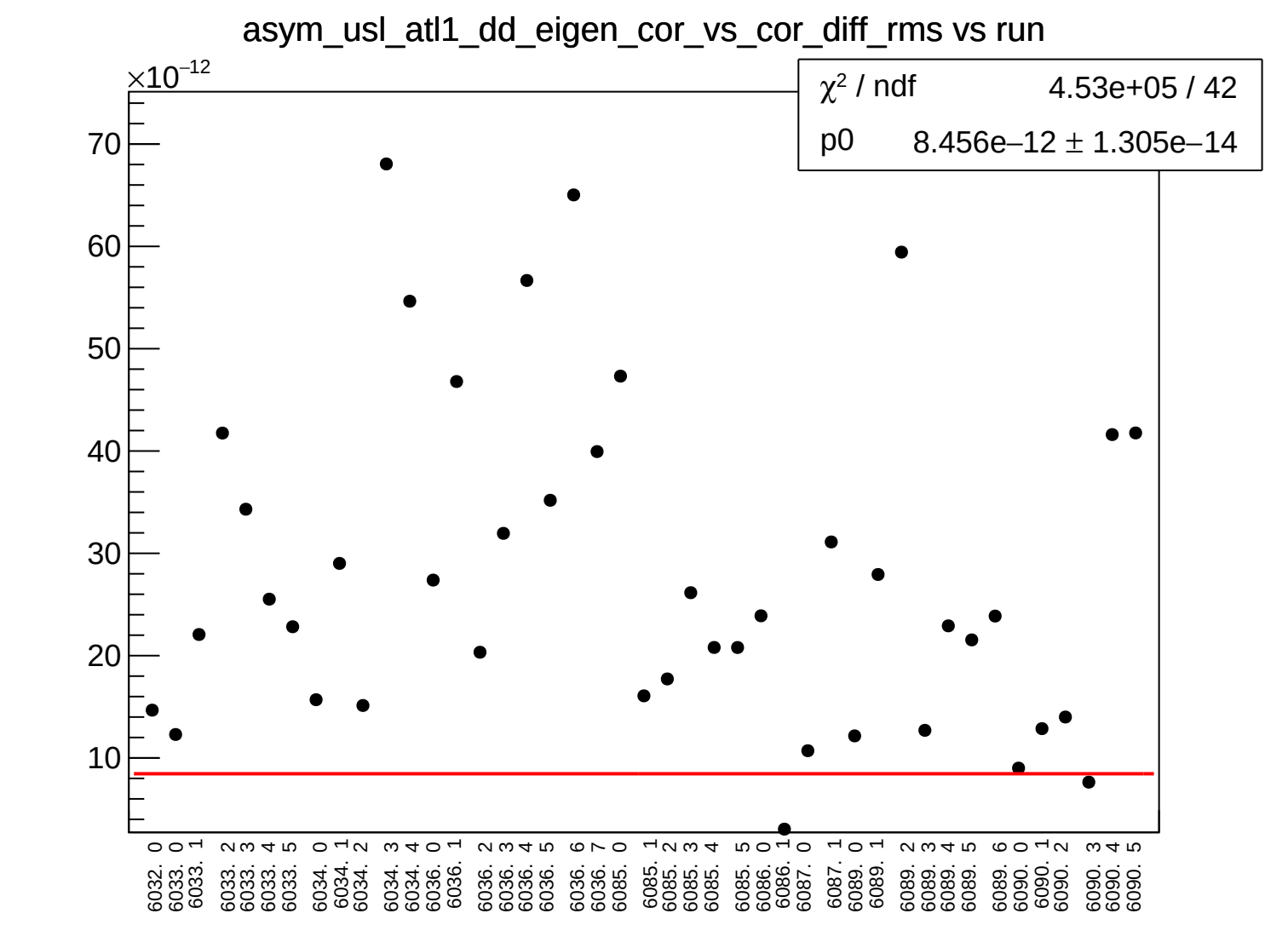


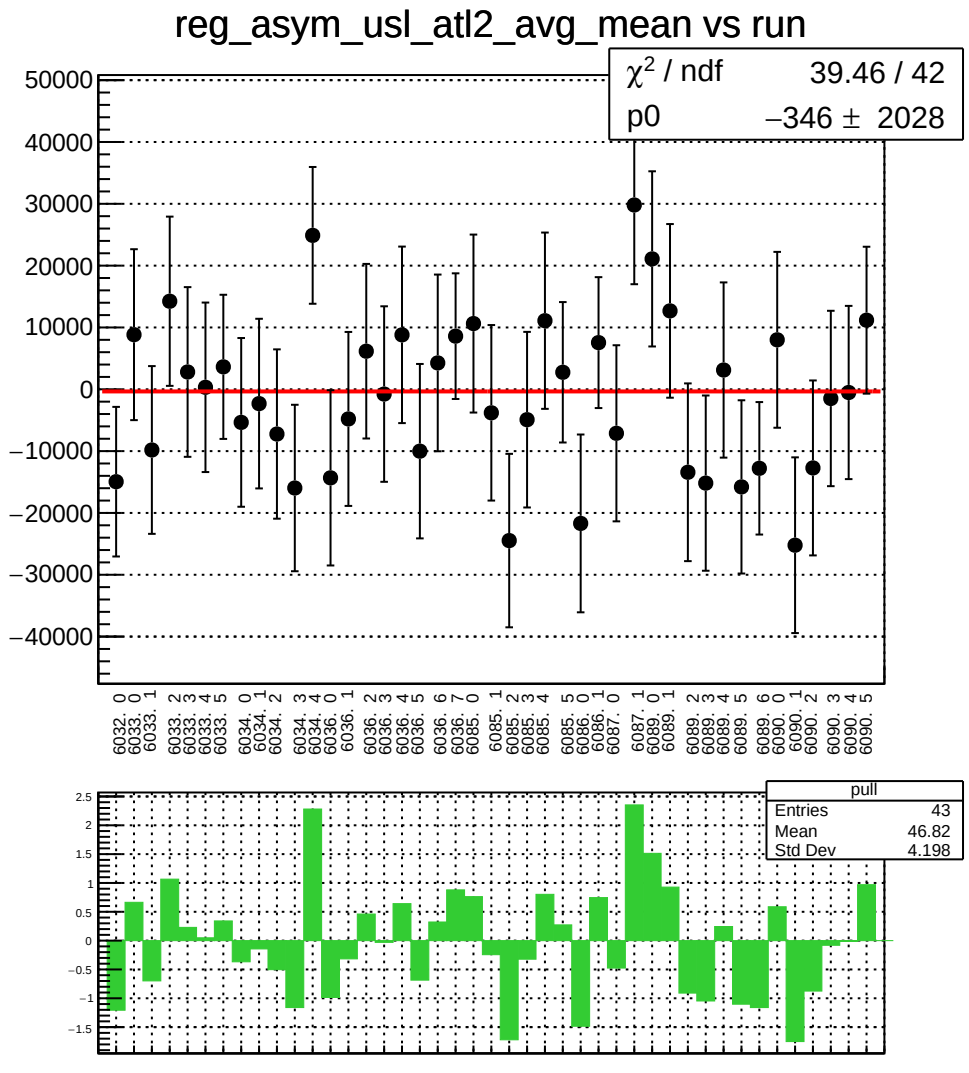


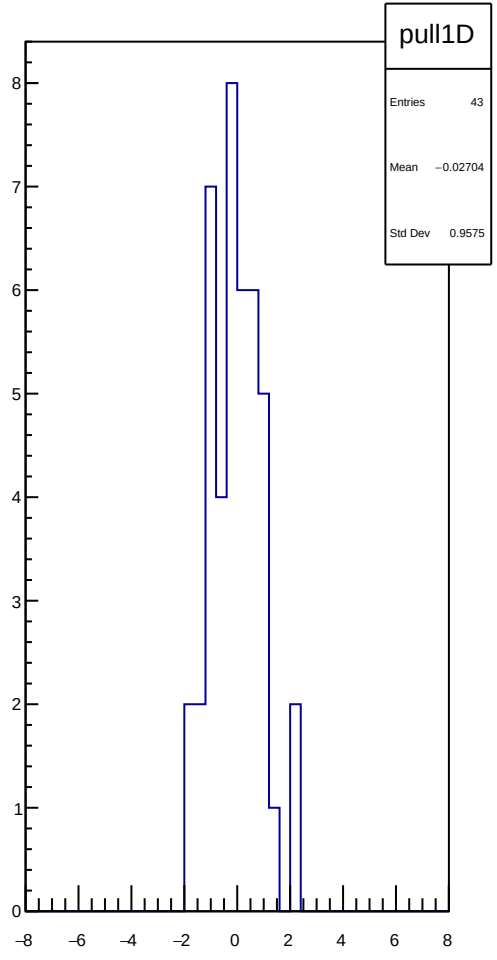


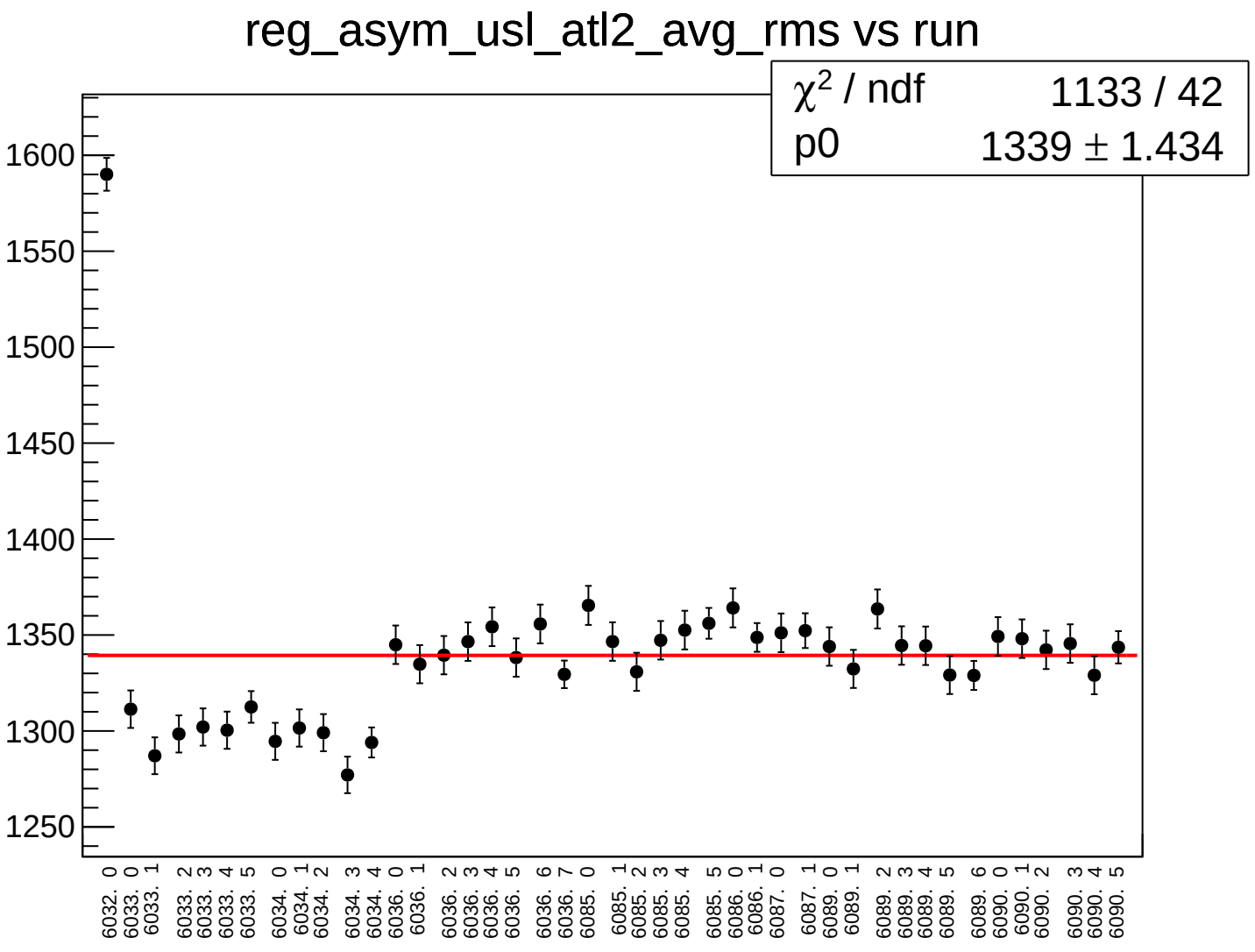

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.51e+04 / 42
p0 28.55 ± 0.03237
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

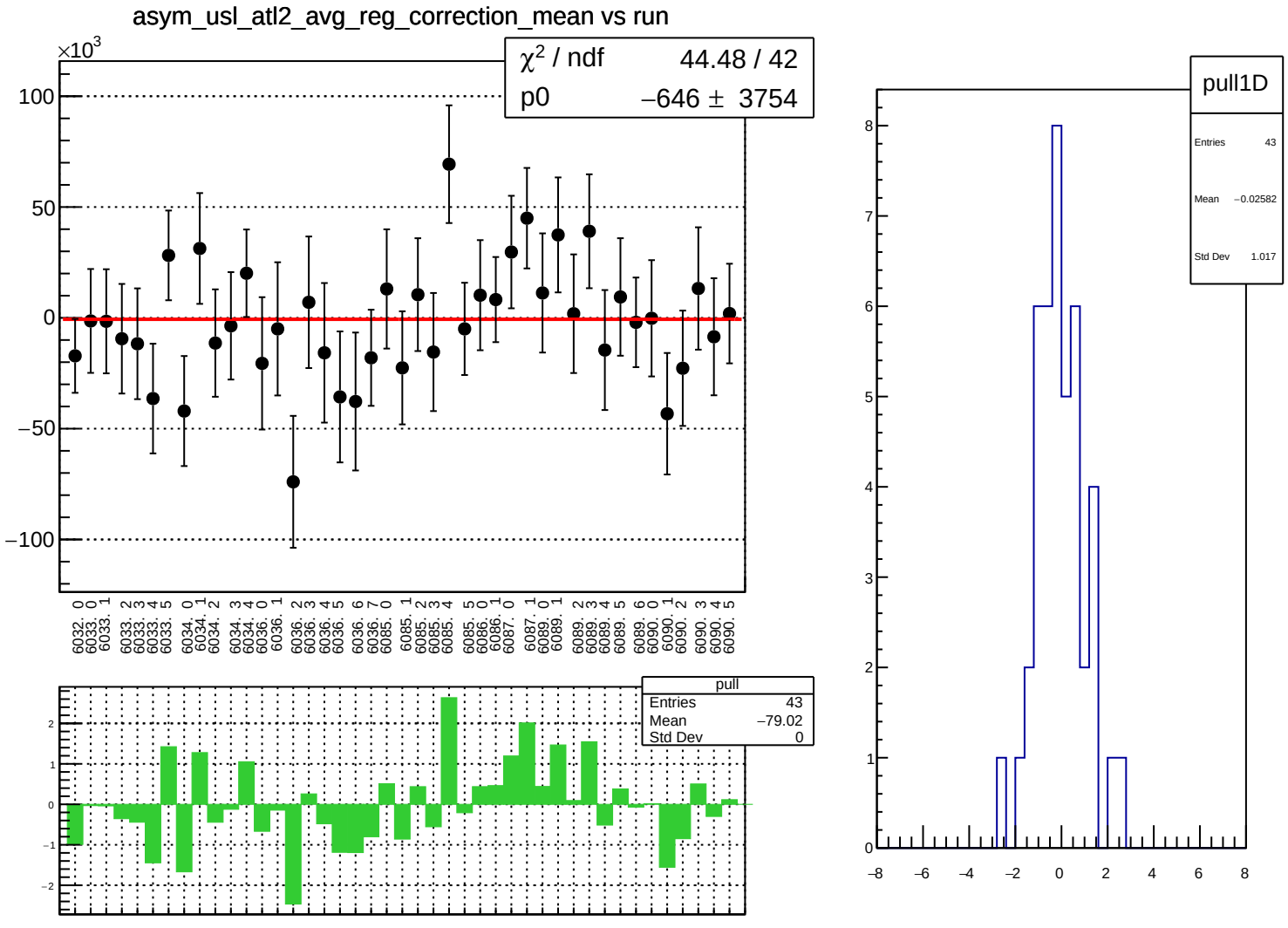

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.12 / 42
p0 −1.24e−14 ± 1.845e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −34.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03601
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

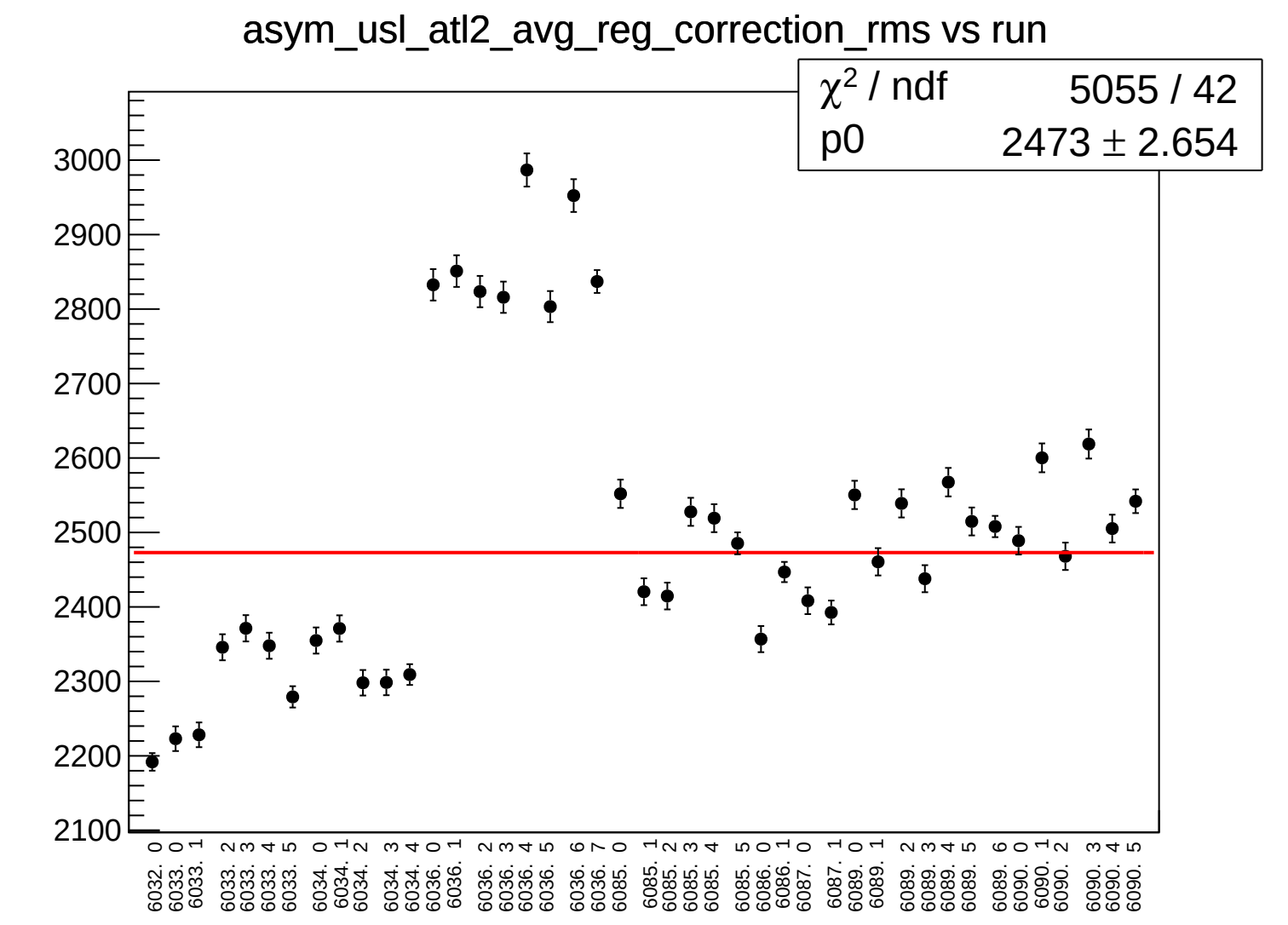

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.53e+05 / 42
p0 8.456e−12 ± 1.305e−14
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

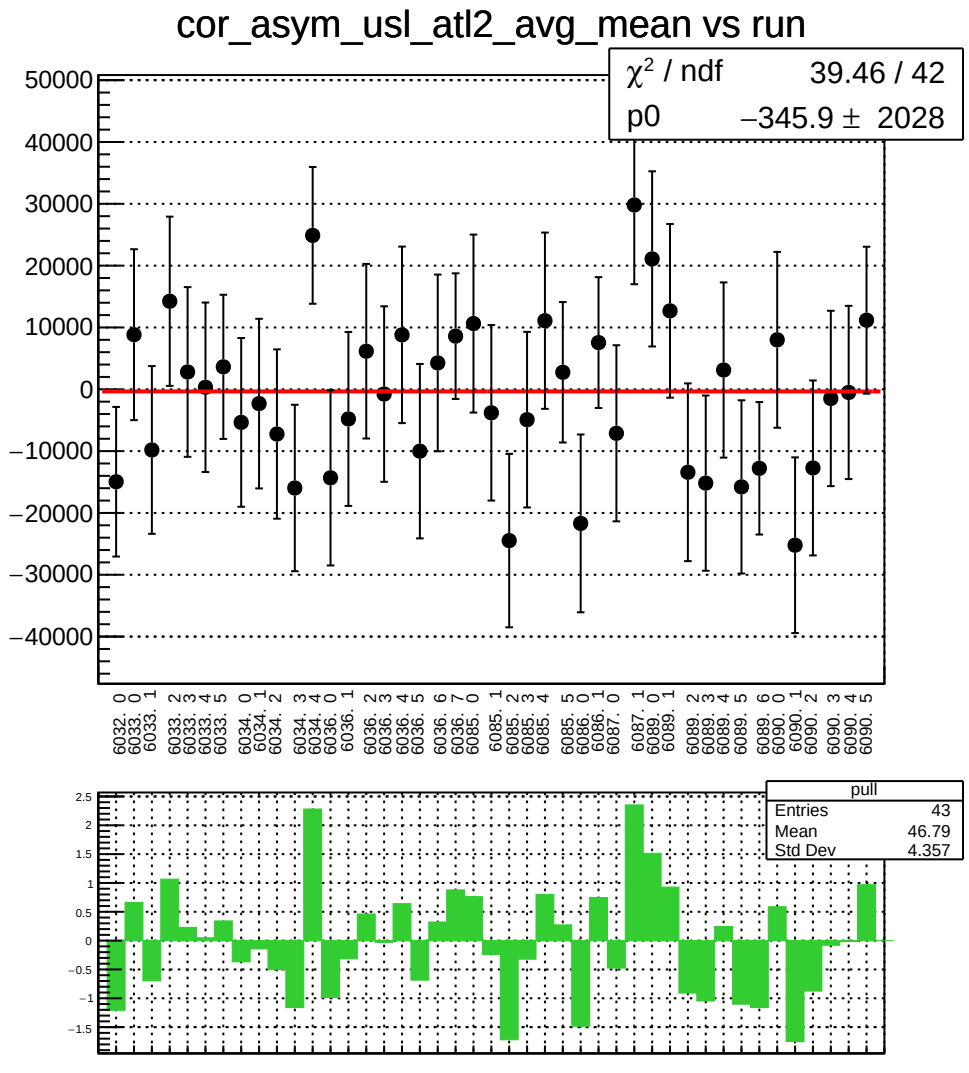

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 39.46 / 42
p0 −346 ± 2028
pull
Entries 43
Mean 46.82
Std Dev 4.198

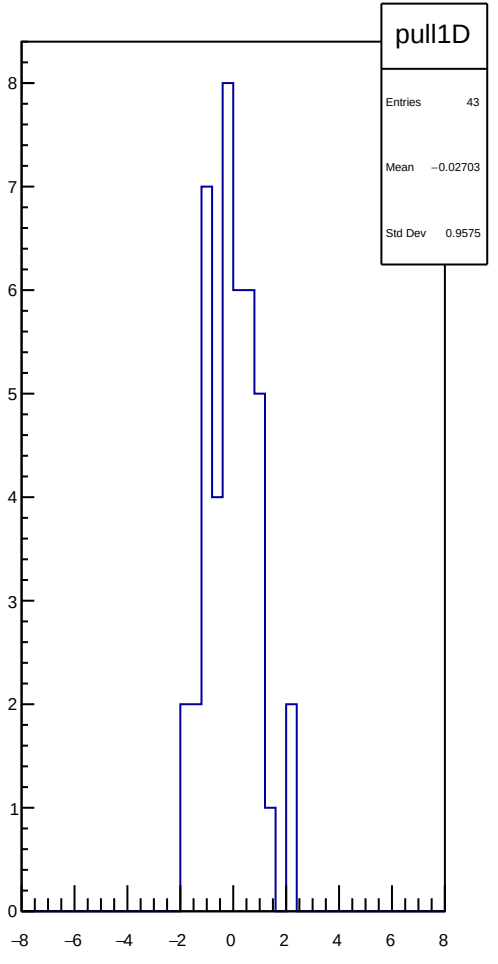

pull1D
Entries 43
Mean −0.02704
Std Dev 0.9575

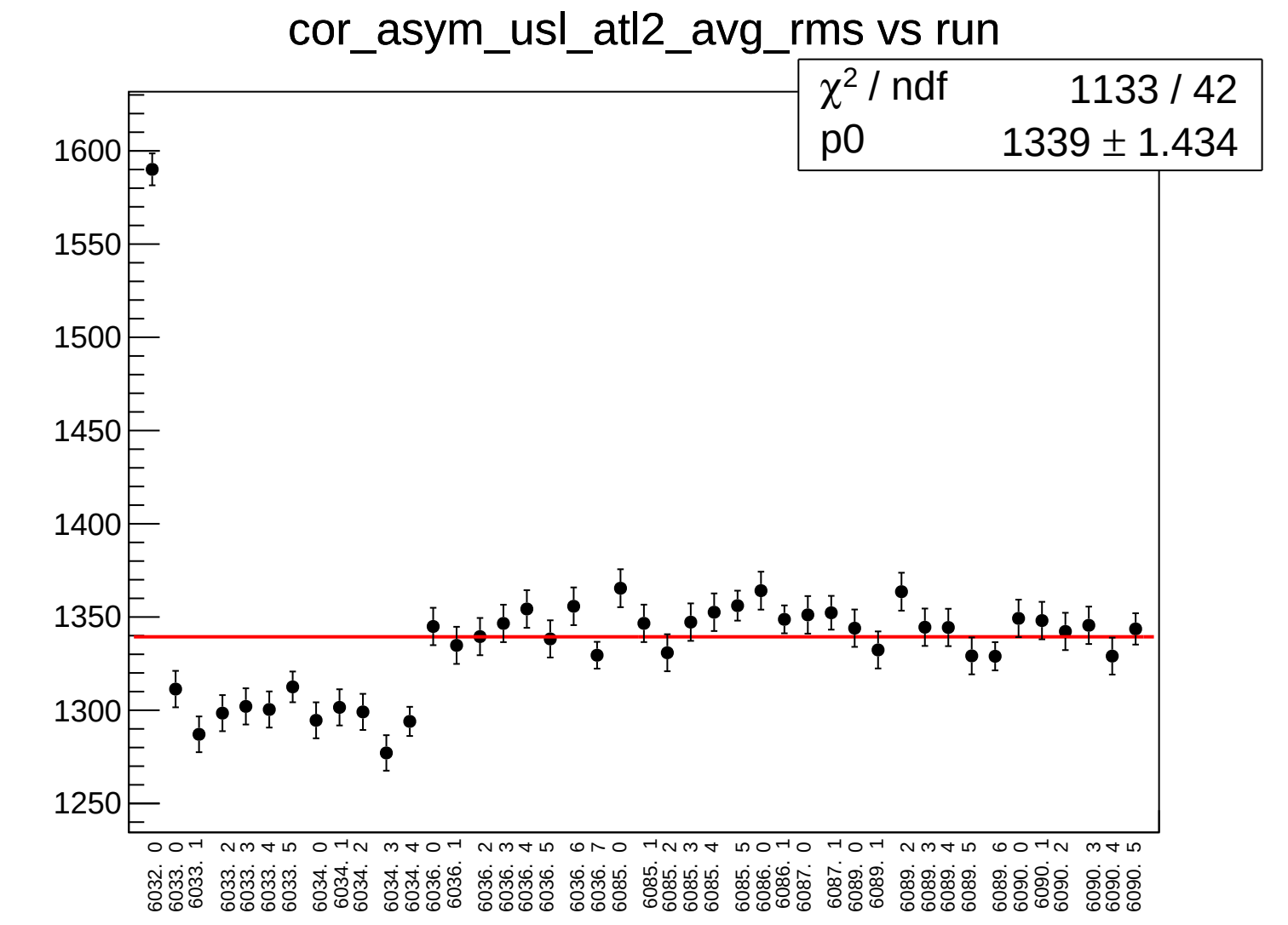

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 1133 / 42
p0 1339 ± 1.434
1600
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

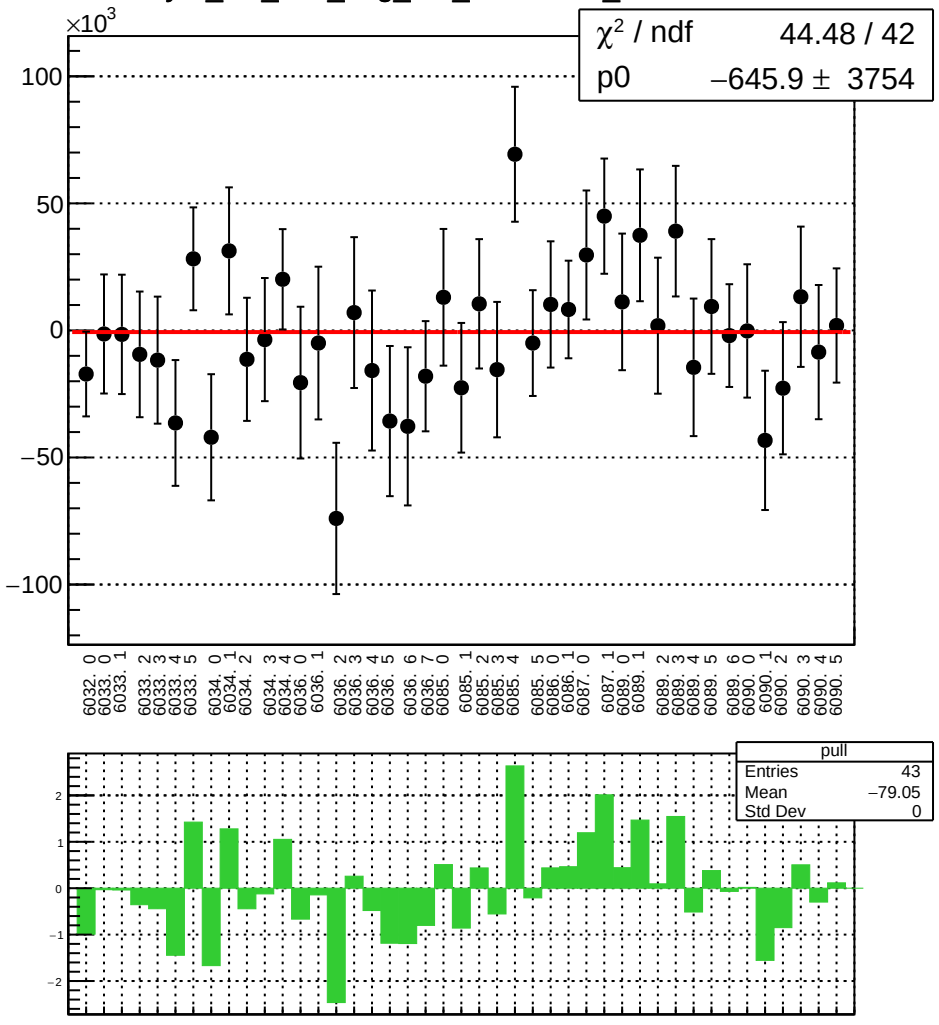

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 44.48 / 42
p0 −646 ± 3754
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −79.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02582
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

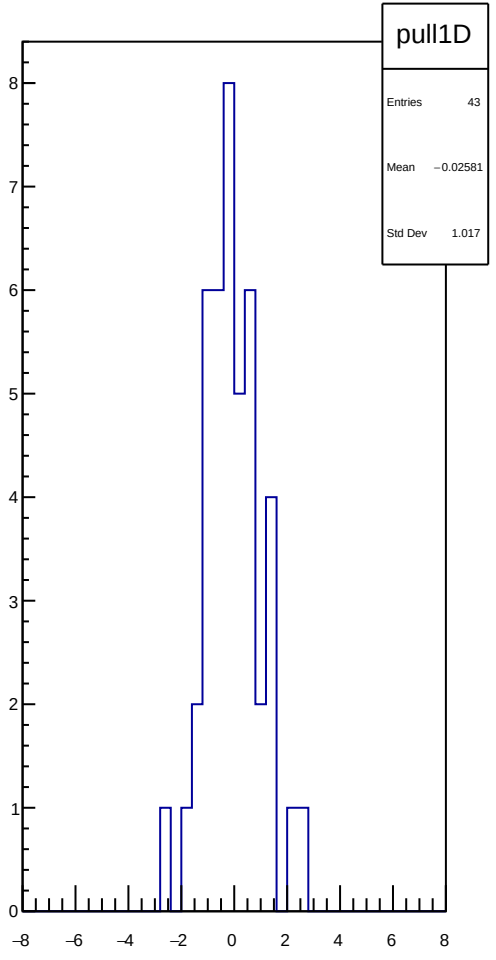

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 5055 / 42
p0 2473 ± 2.654
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

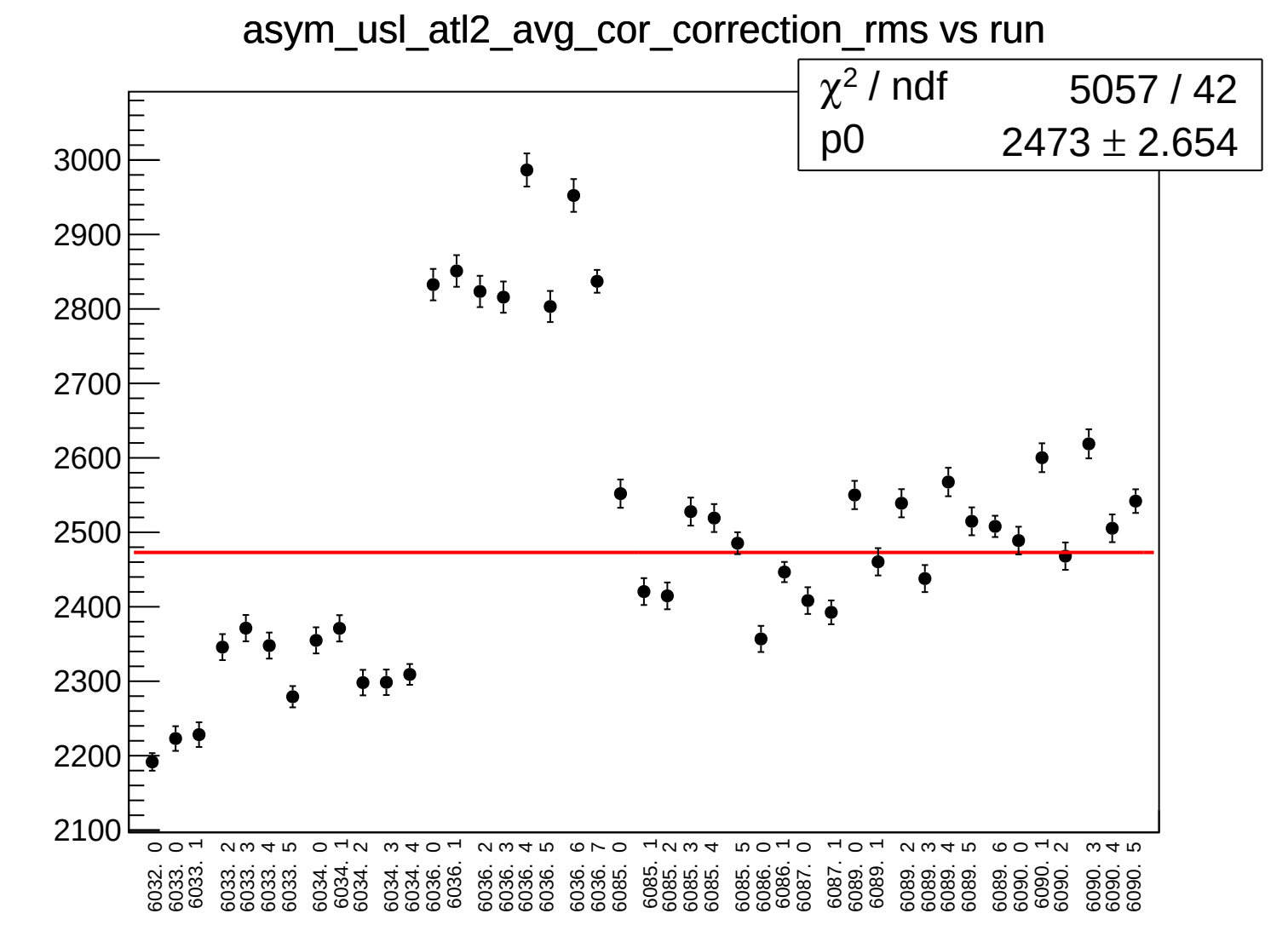

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 39.46 / 42
p0 −345.9 ± 2028
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 46.79
Std Dev 4.357
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

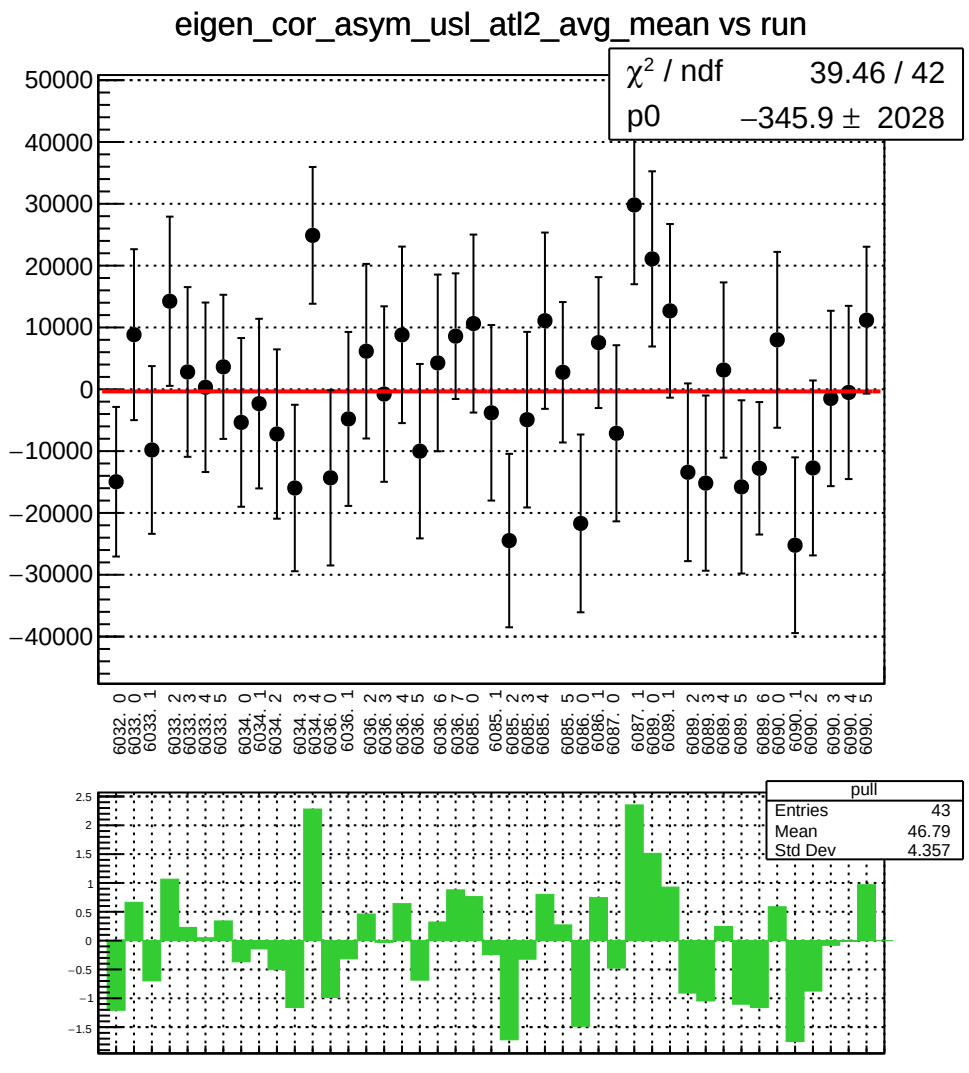

pull1D
Entries 43
Mean −0.02703
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

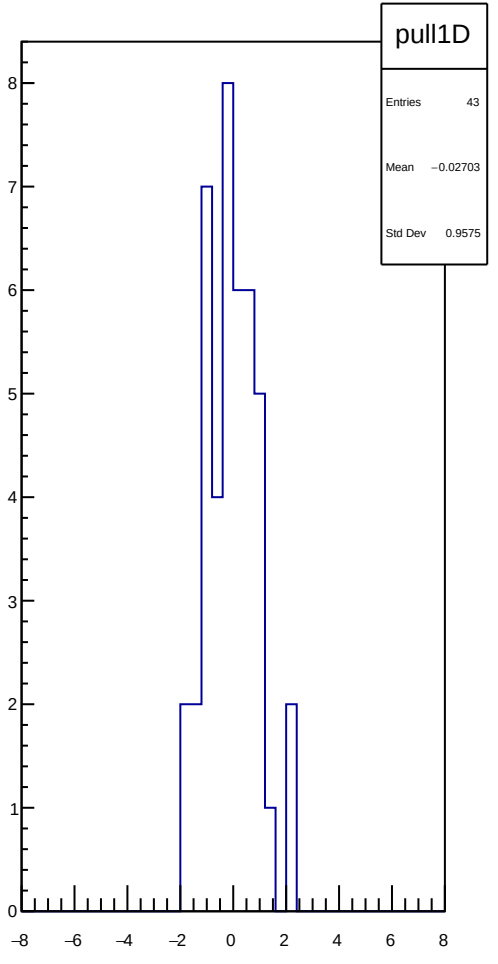

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1133 / 42
p0 1339 ± 1.434
1600
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

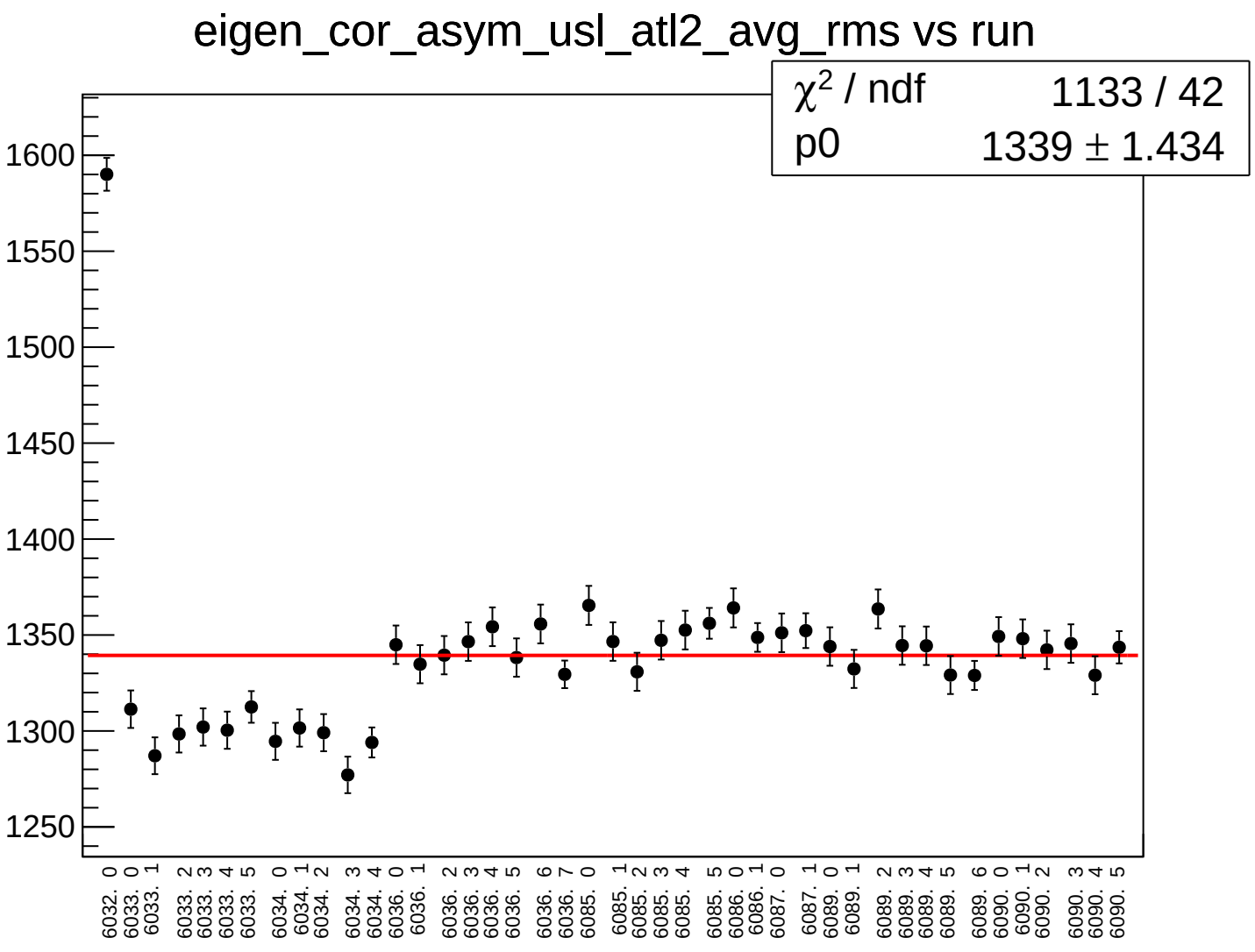

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 44.48 / 42
p0 −645.9 ± 3754
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −79.05
Std Dev 0
2
1
0
−1
−2

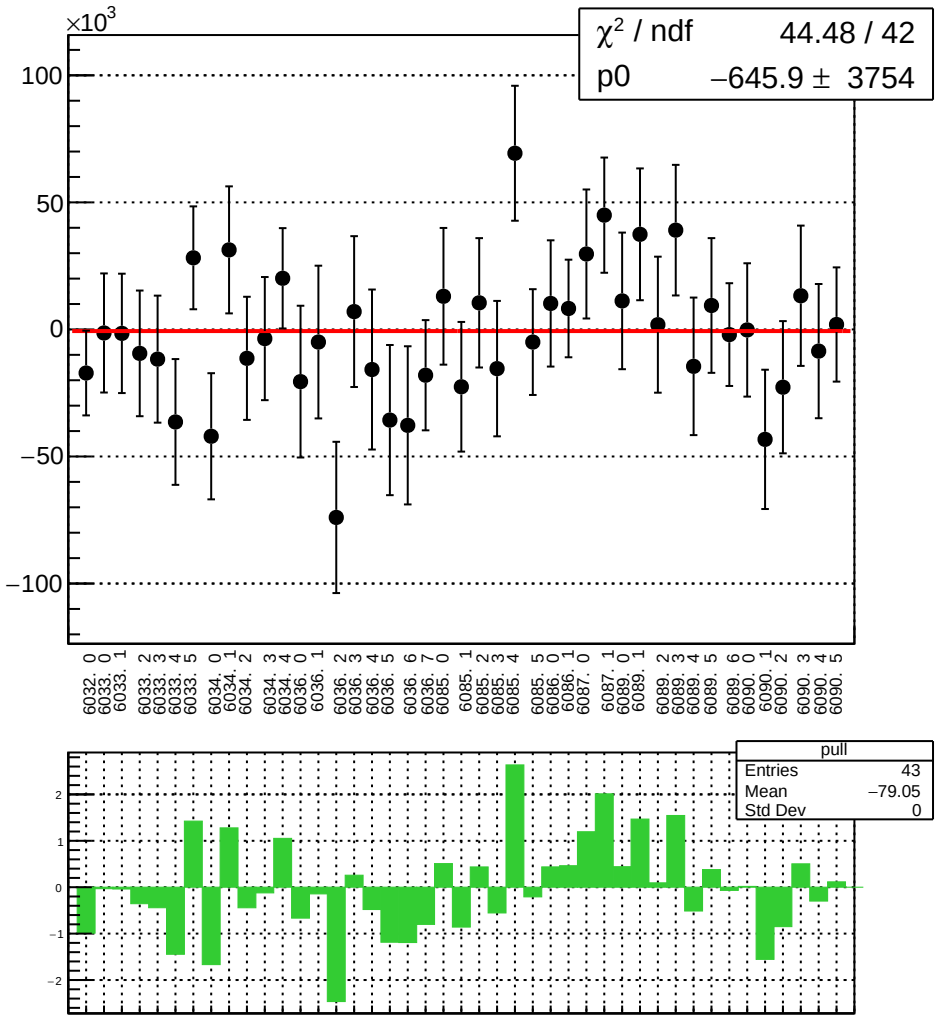

pull1D
Entries 43
Mean −0.02581
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

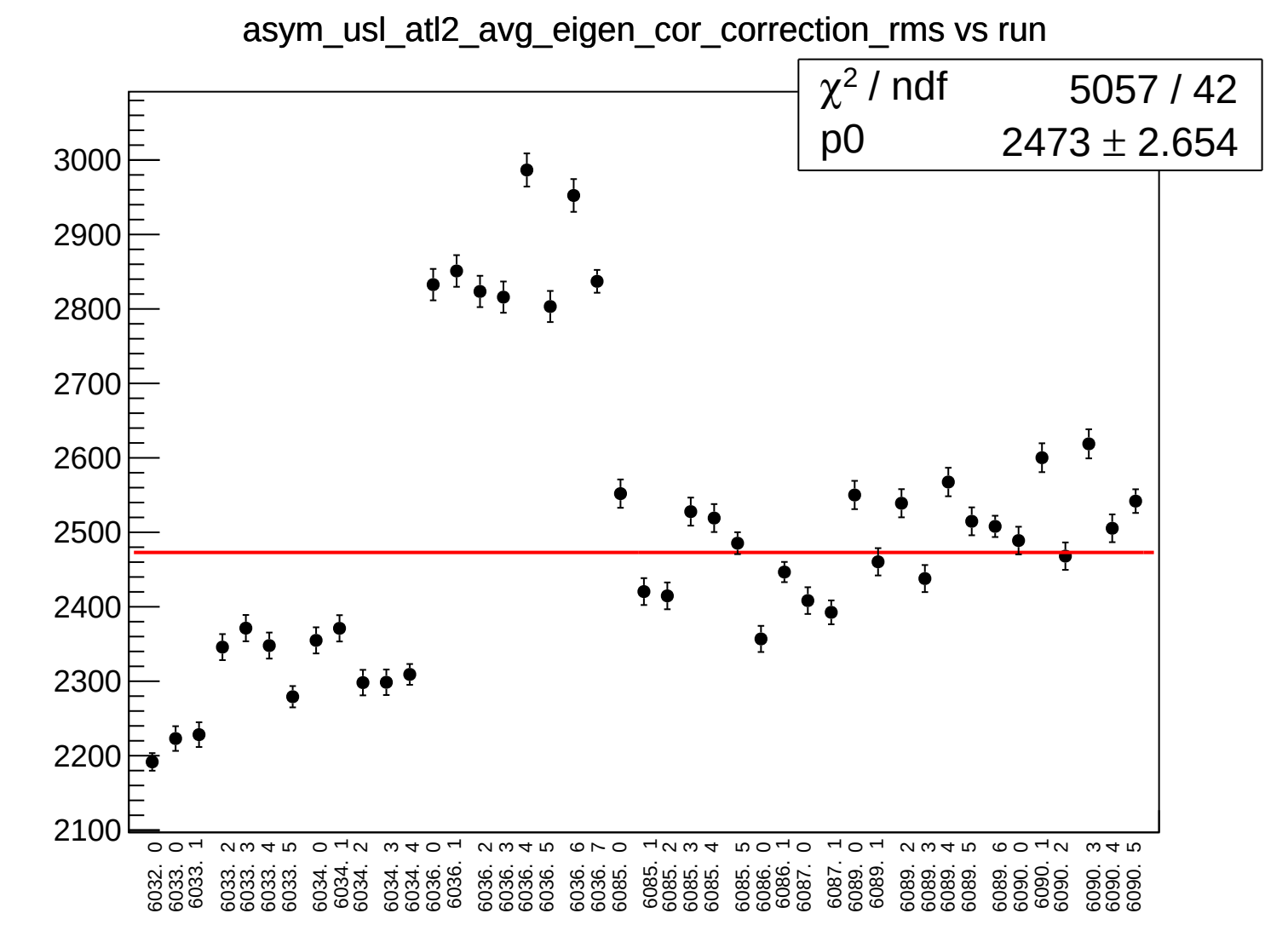

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5057 / 42
p0 2473 ± 2.654
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

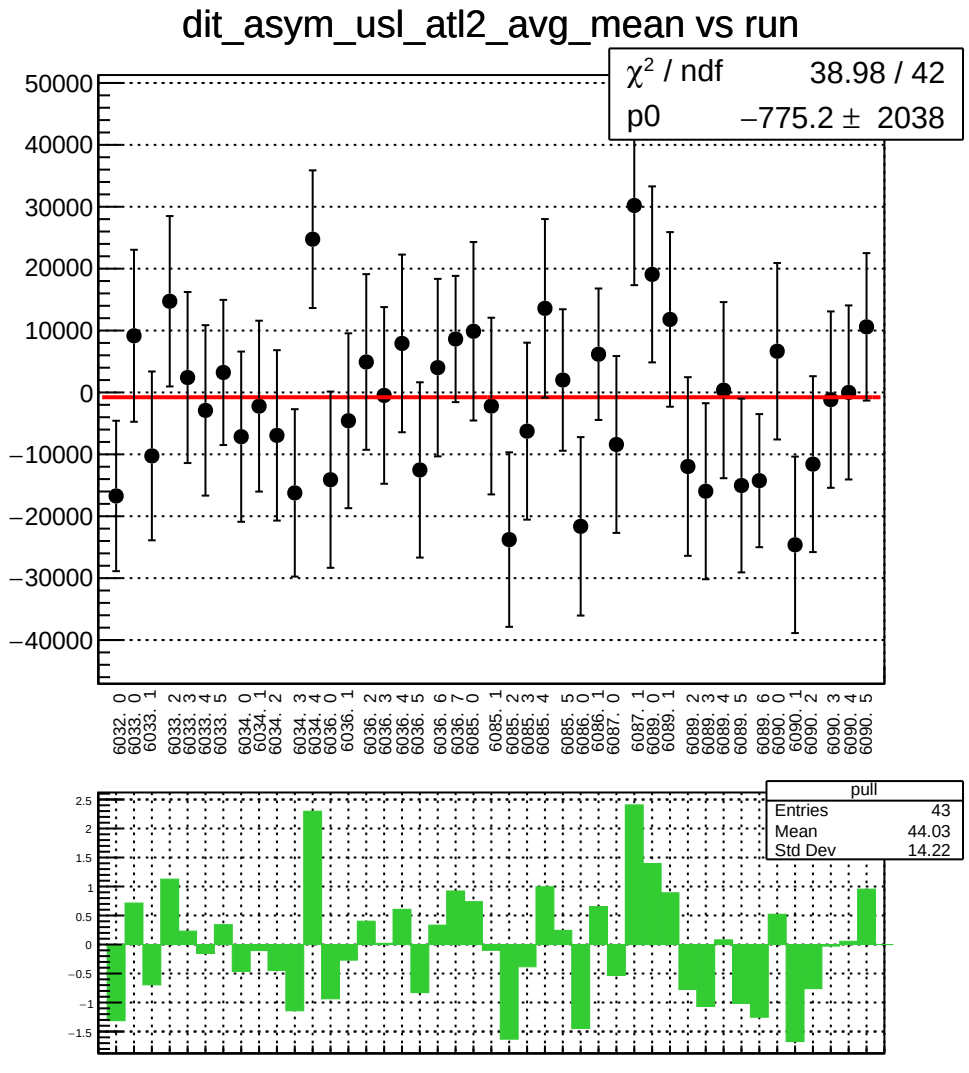

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 39.46 / 42
p0 −345.9 ± 2028
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 46.79
Std Dev 4.357
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

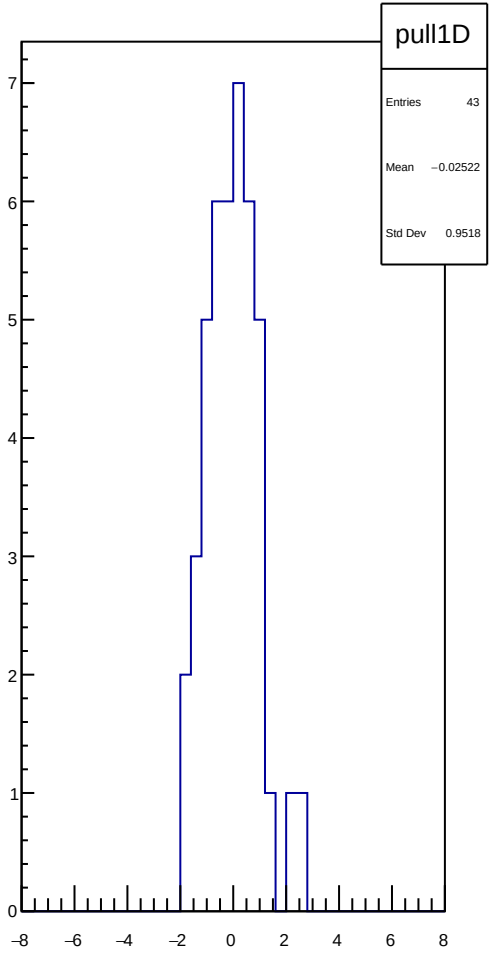

pull1D
Entries 43
Mean −0.02703
Std Dev 0.9575
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

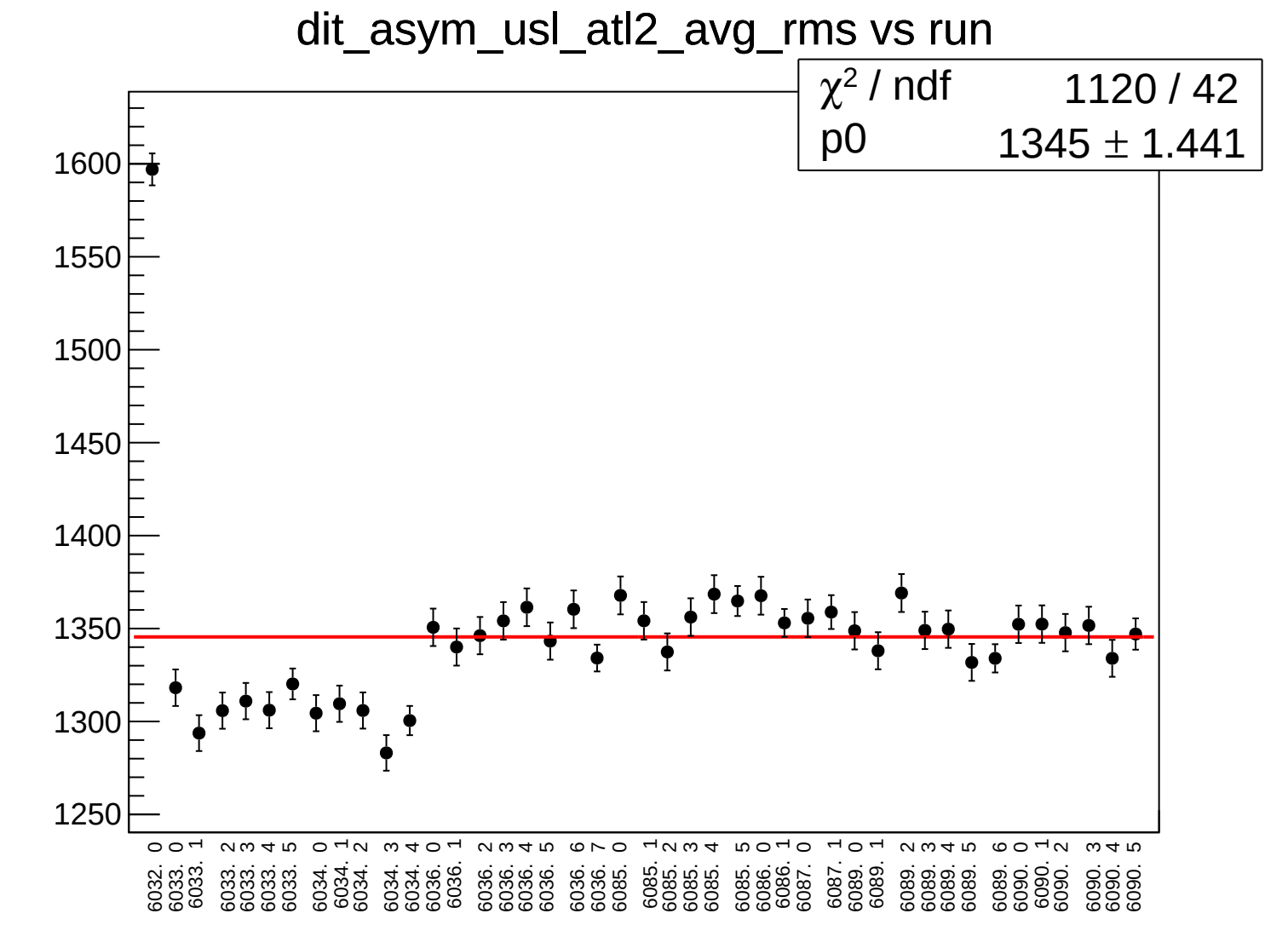

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1133 / 42
p0 1339 ± 1.434
1600
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

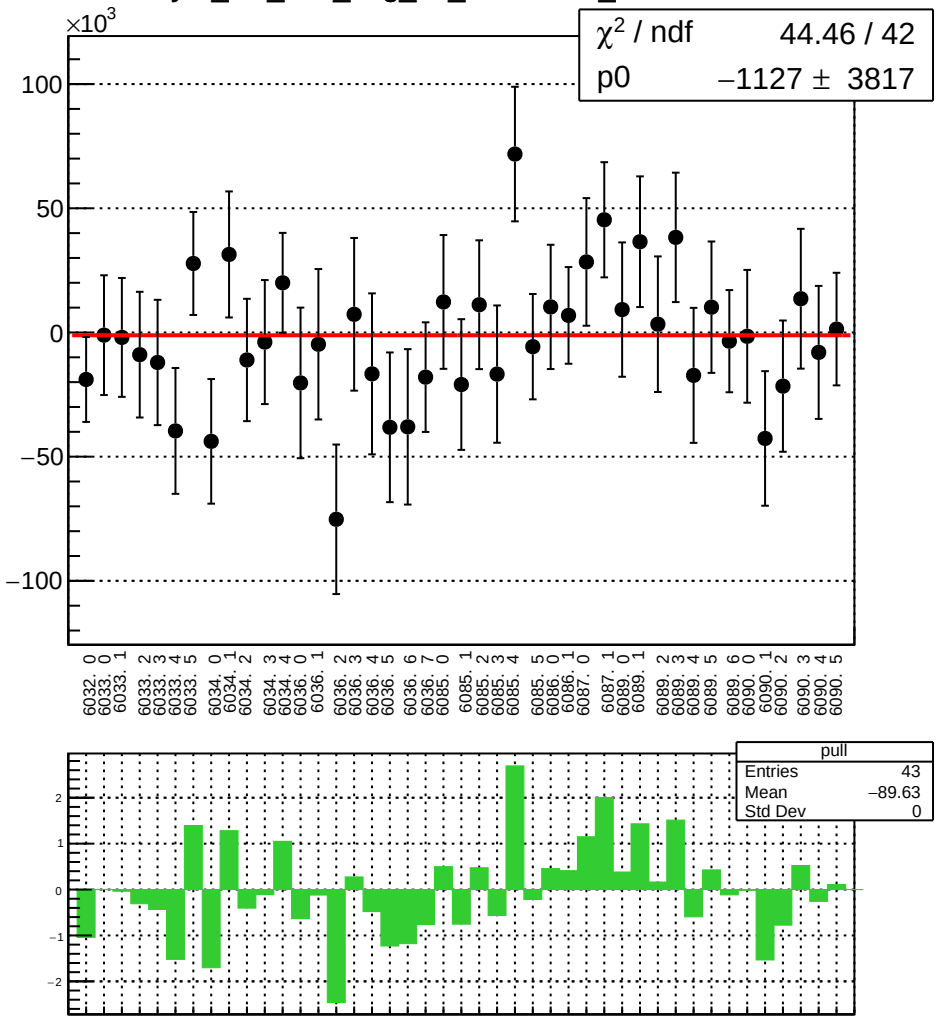

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 44.48 / 42
p0 −645.9 ± 3754
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −79.05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02581
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

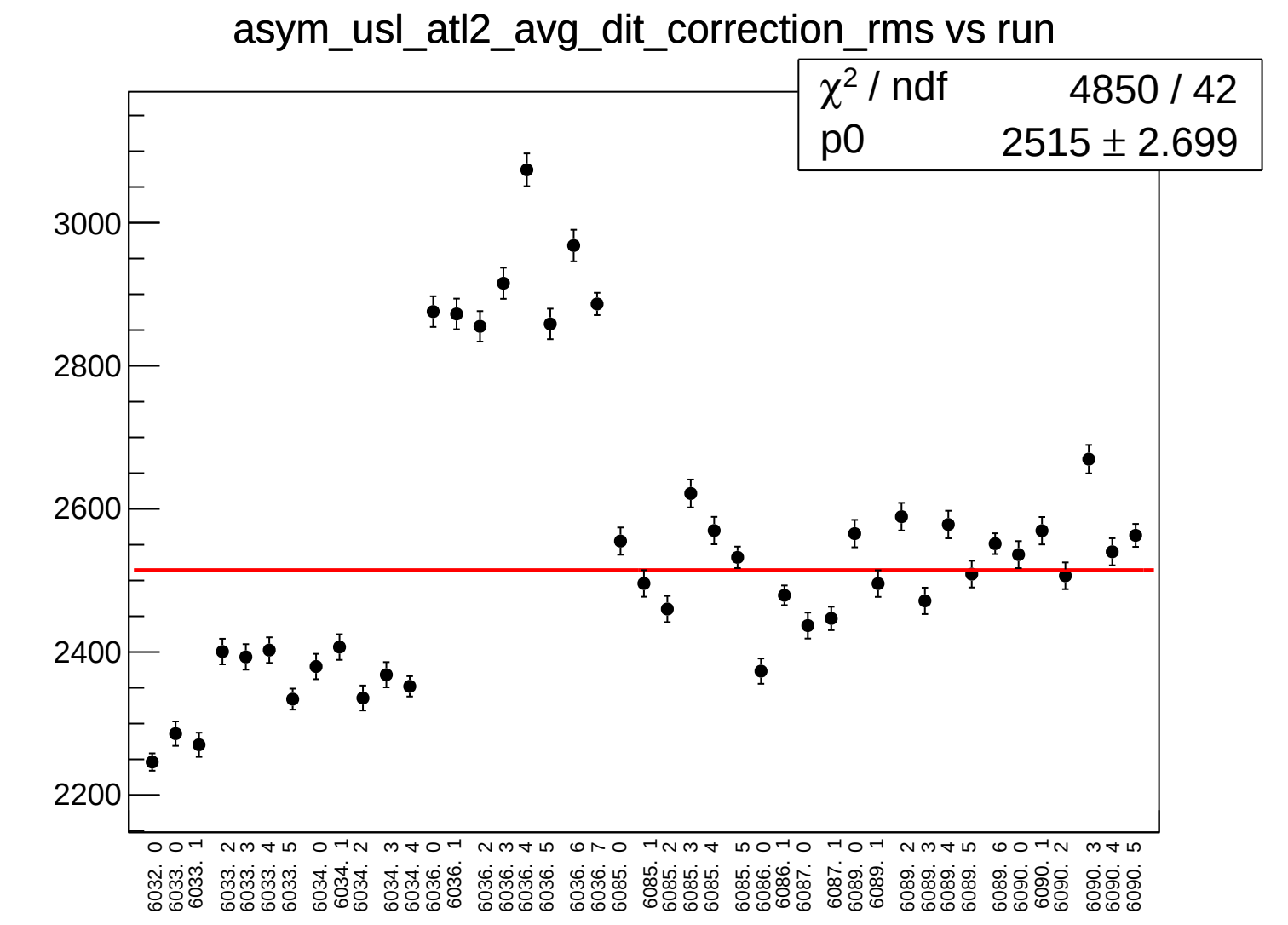

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5057 / 42
p0 2473 ± 2.654
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

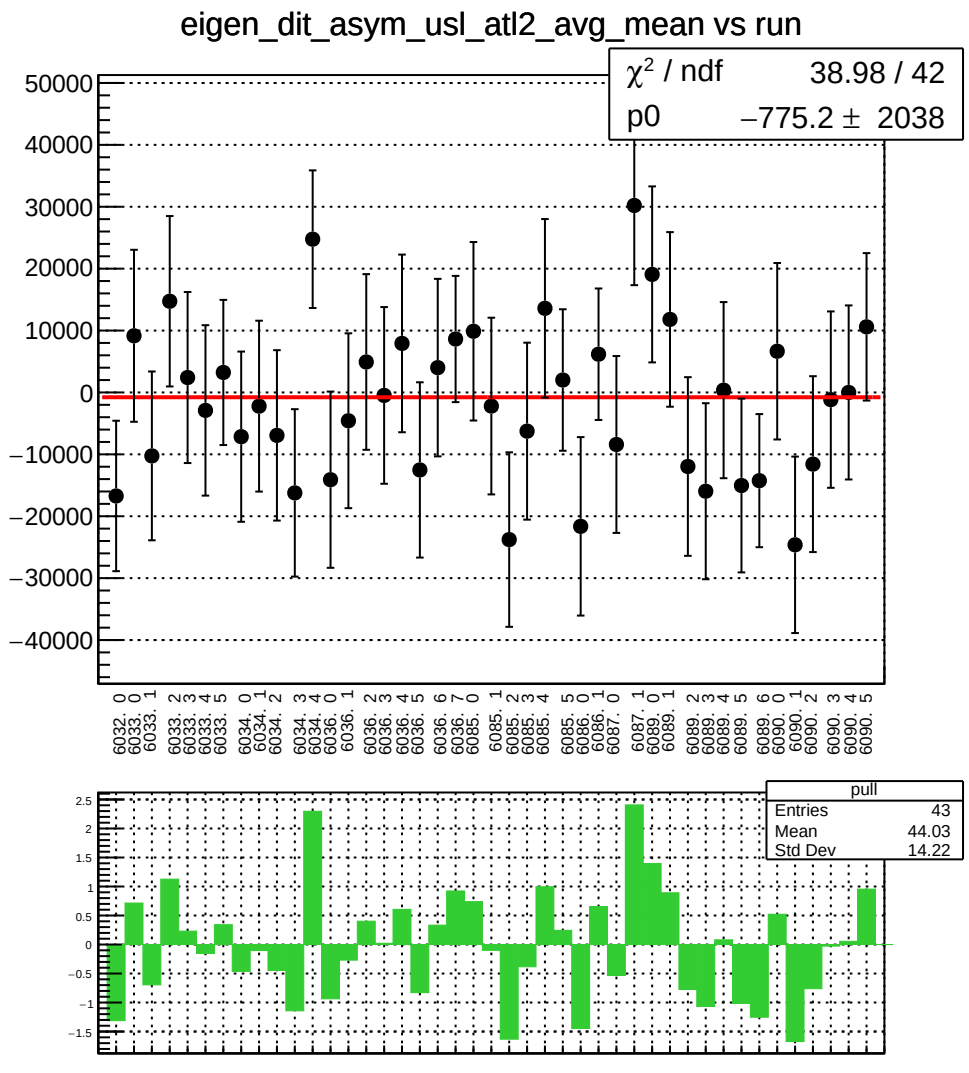

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 38.98 / 42
p0 −775.2 ± 2038
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 44.03
Std Dev 14.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

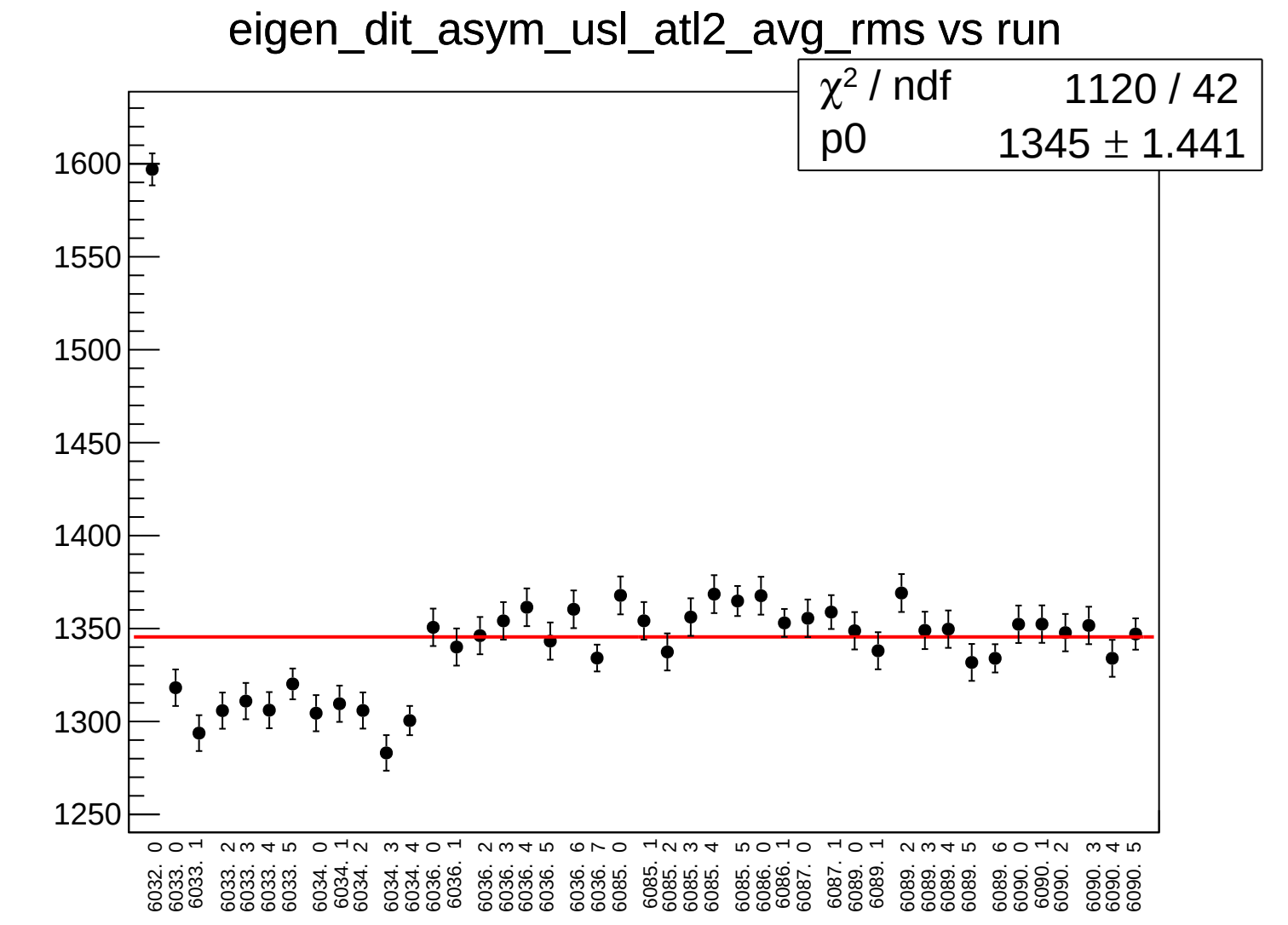

pull1D
Entries 43
Mean −0.02522
Std Dev 0.9518
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

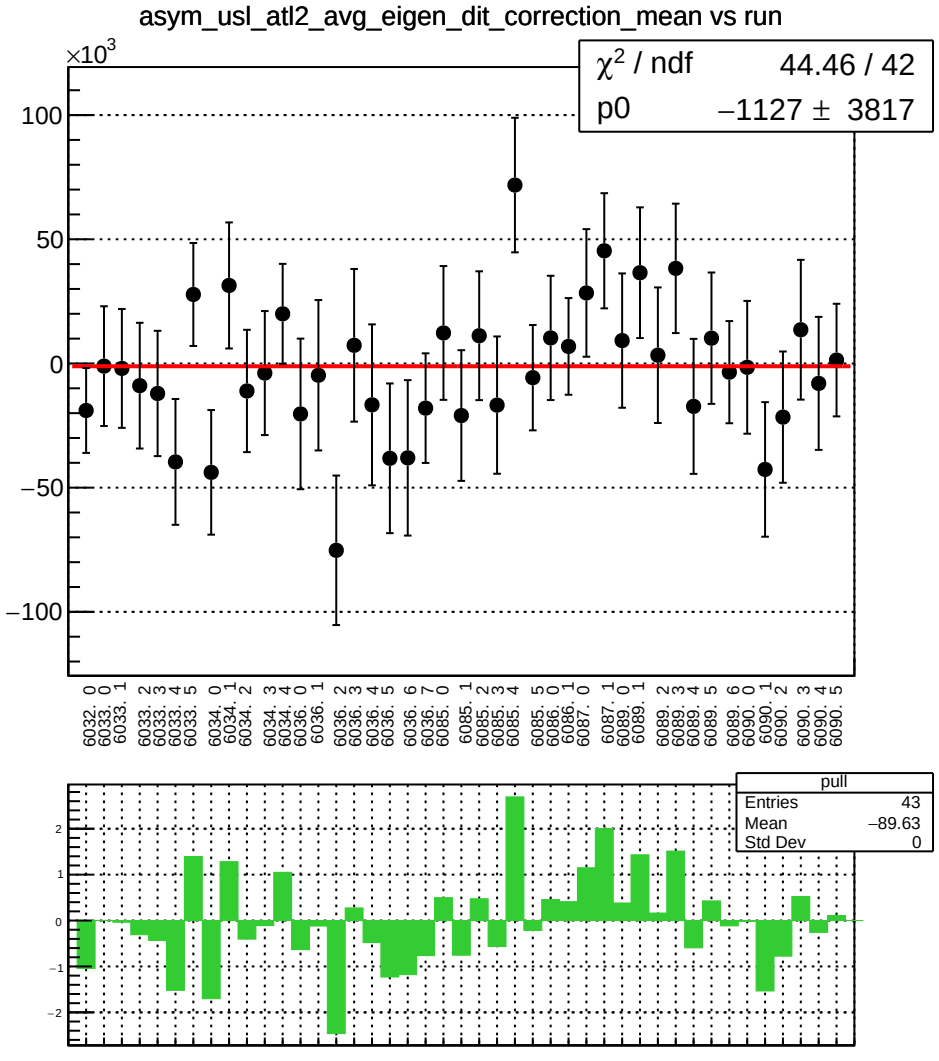

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1120 / 42
p0 1345 ± 1.441
1600
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

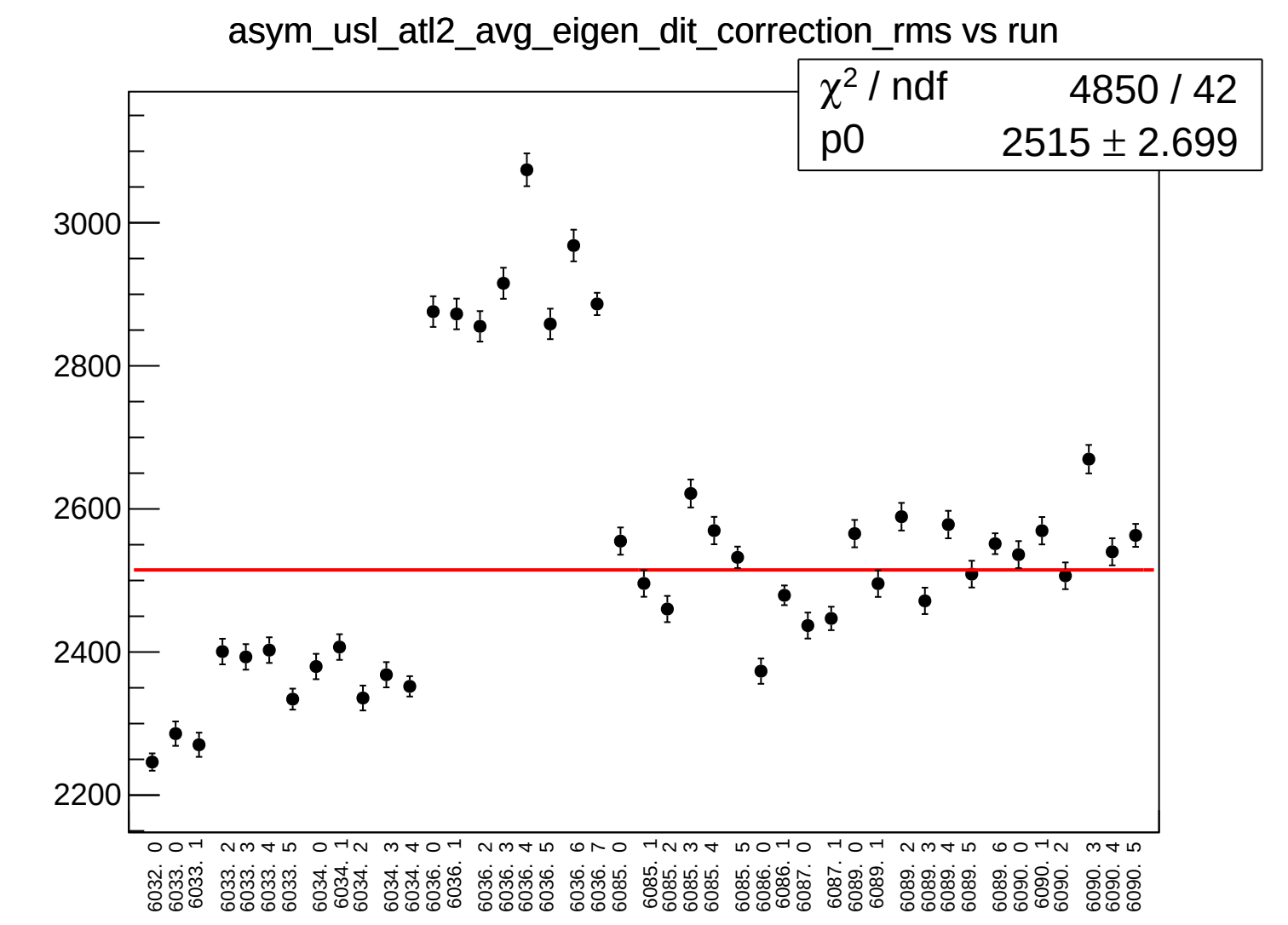

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 44.46 / 42
p0 −1127 ± 3817
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −89.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02347
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

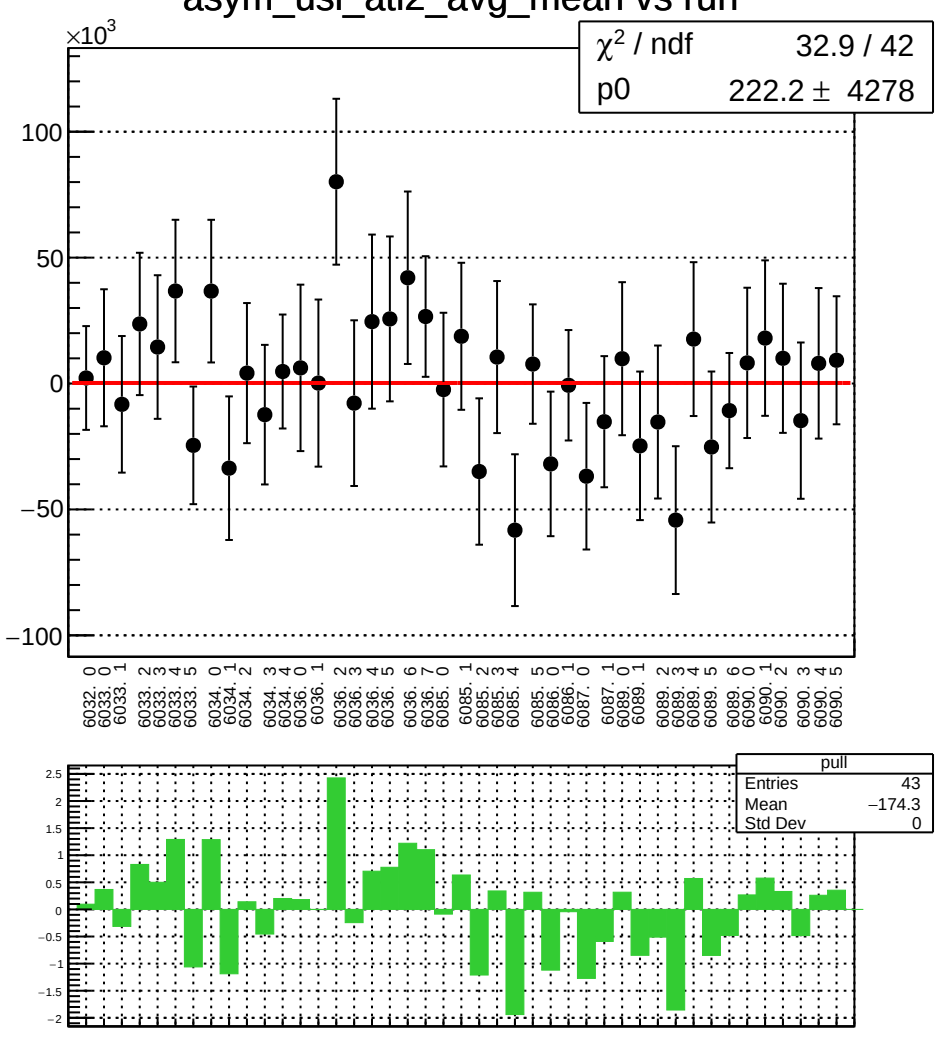

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4850 / 42
p0 2515 ± 2.699
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

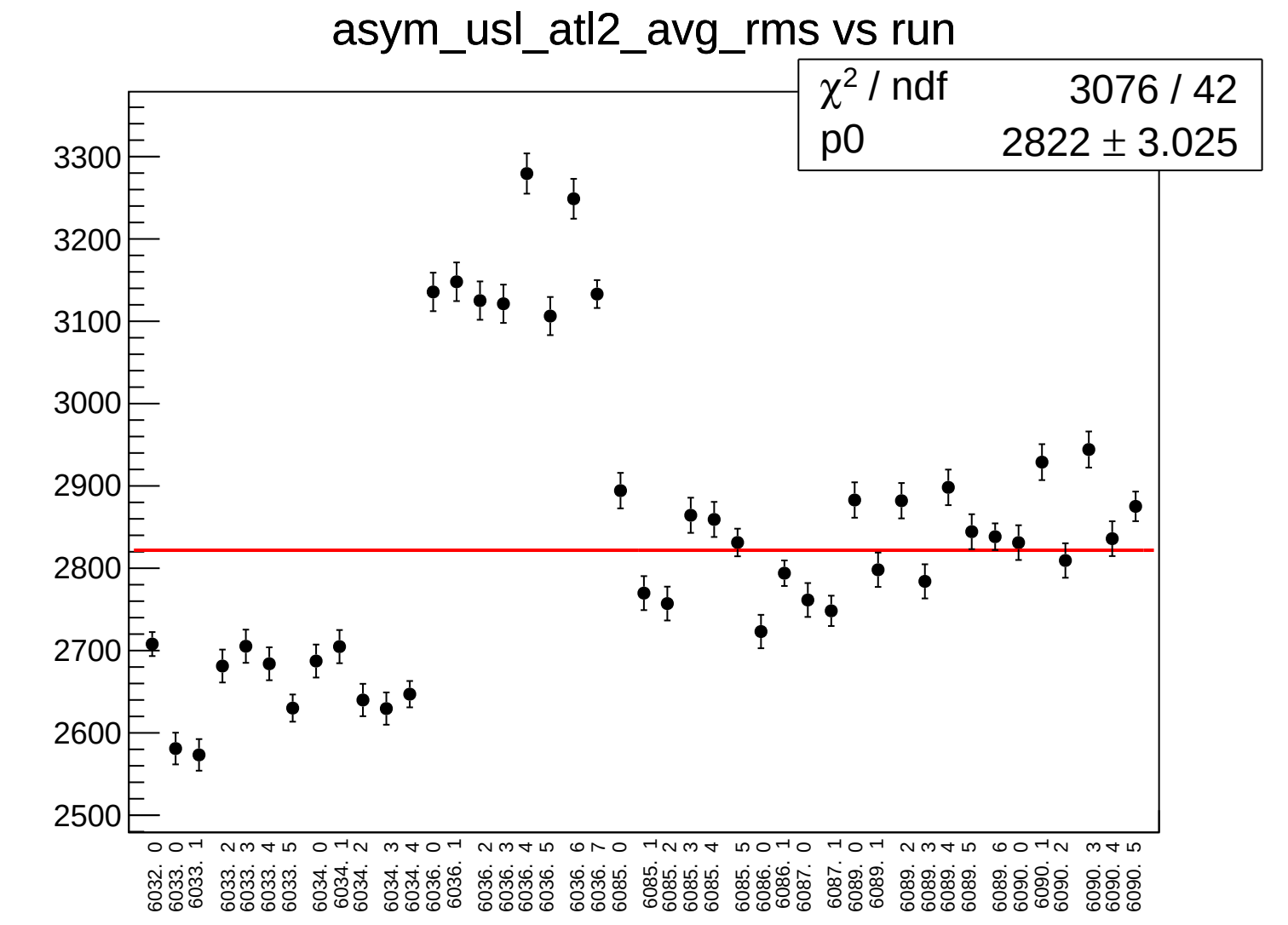

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 38.98 / 42
p0 −775.2 ± 2038
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 44.03
Std Dev 14.22
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02522
Std Dev 0.9518
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

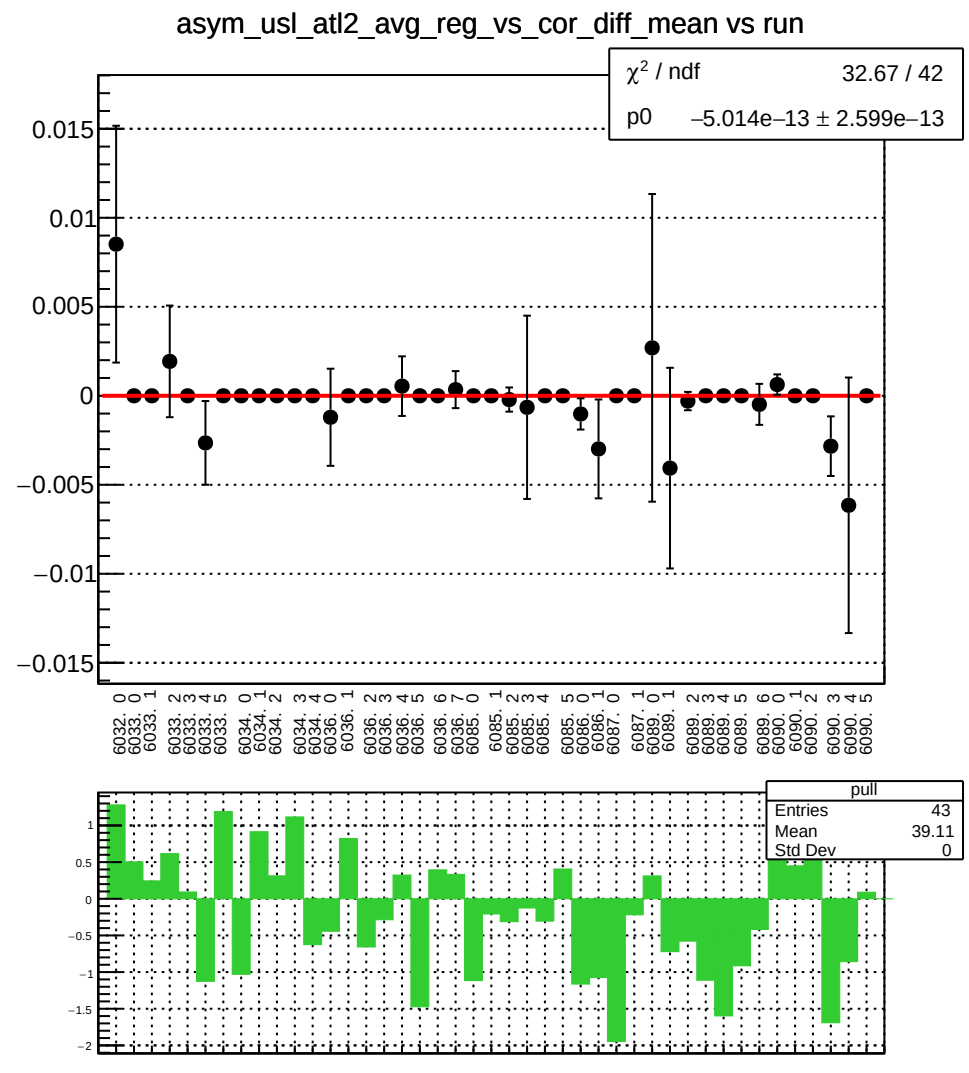

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1120 / 42
p0 1345 ± 1.441
1600
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

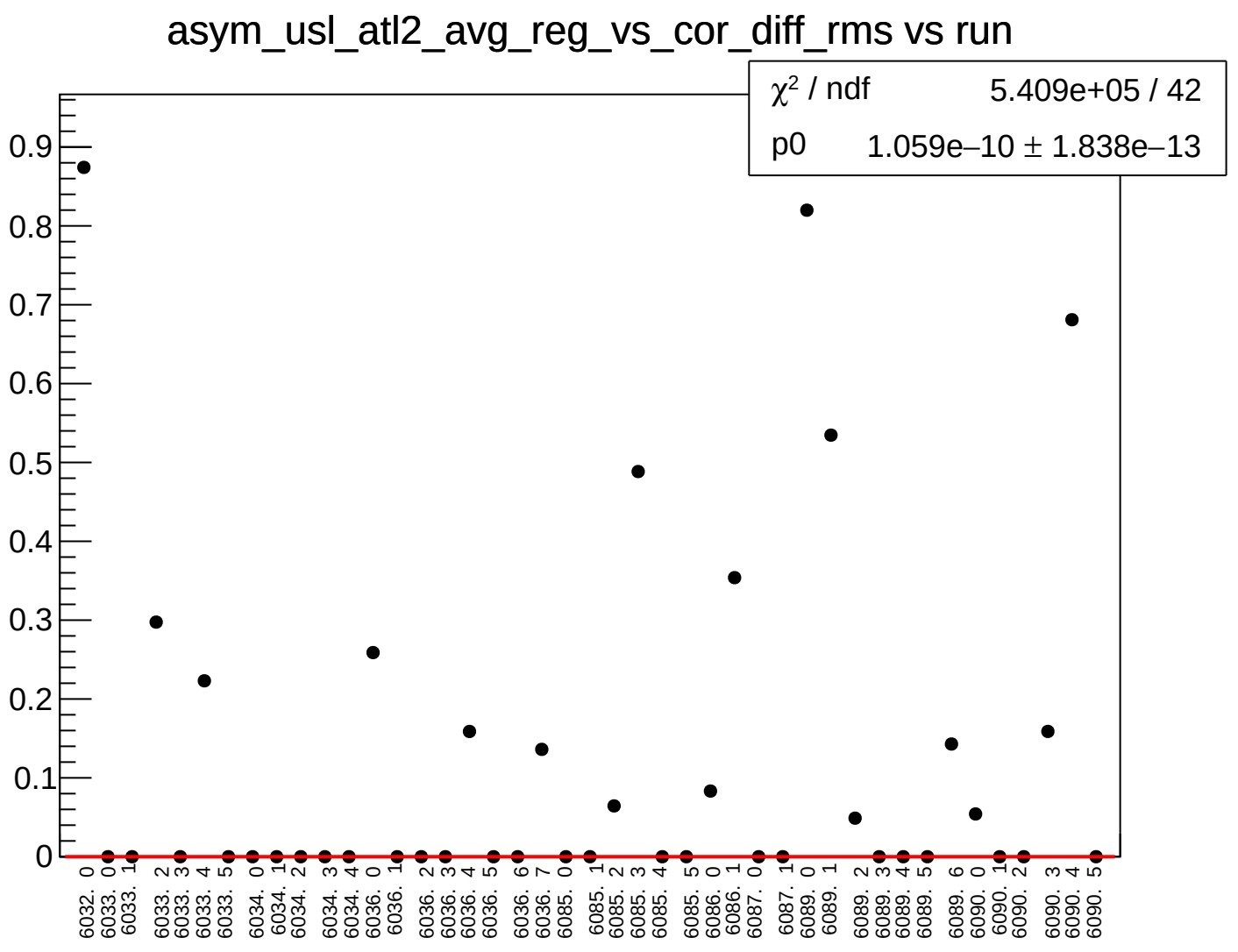

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 44.46 / 42
p0 −1127 ± 3817
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −89.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02347
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

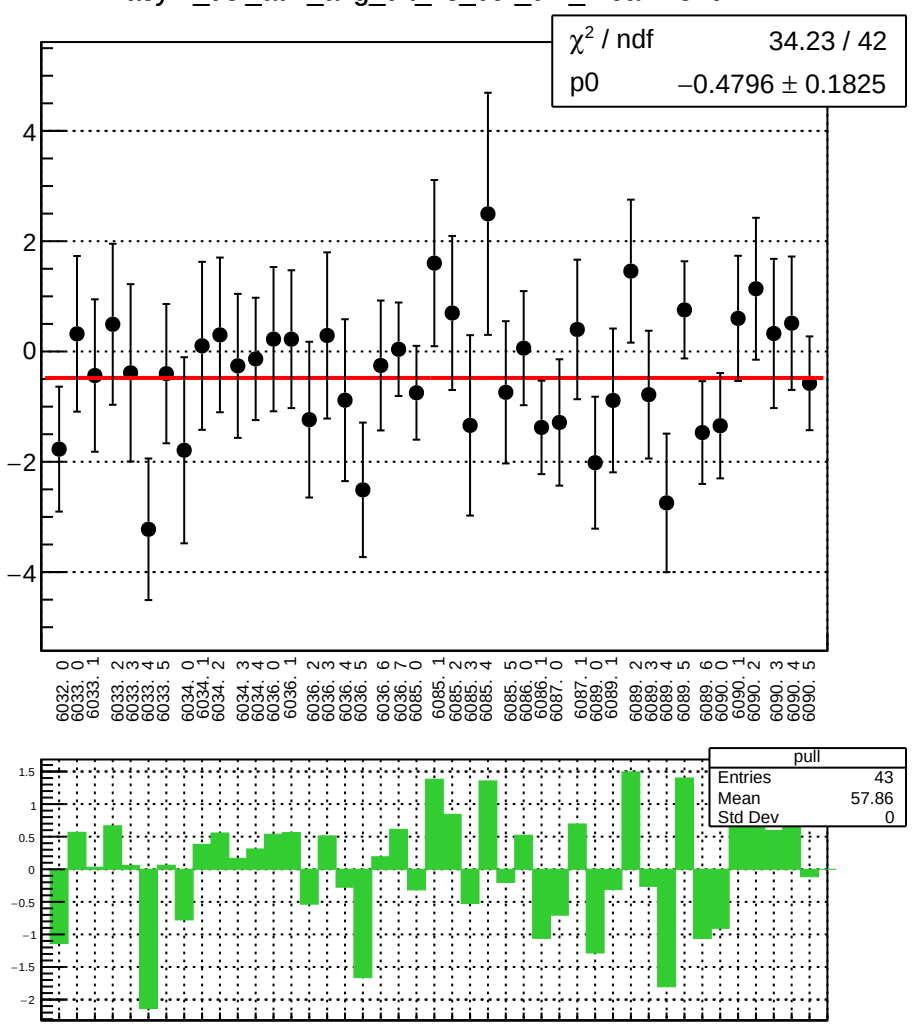

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4850 / 42
p0 2515 ± 2.699
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

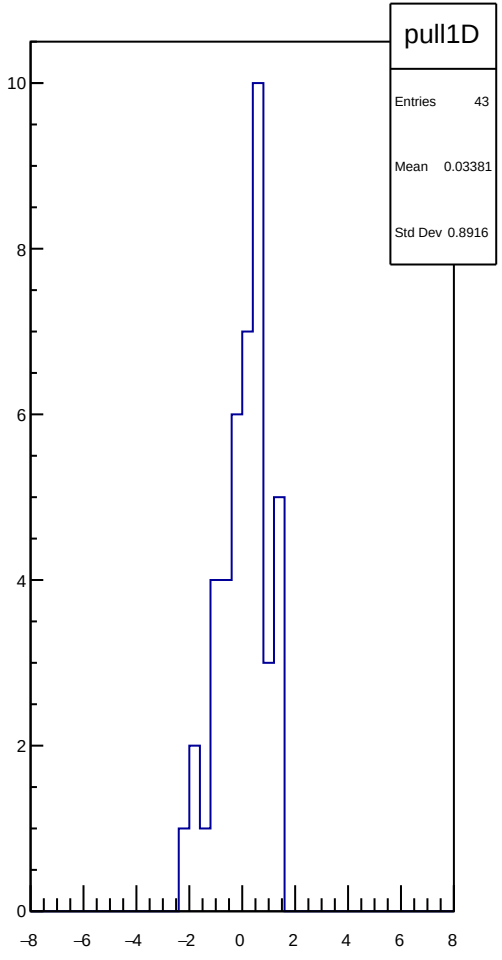

asym_usl_atl2_avg_mean vs run
χ² / ndf 32.9 / 42
p0 222.2 ± 4278
×10³
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −174.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0129
Std Dev 0.8746
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

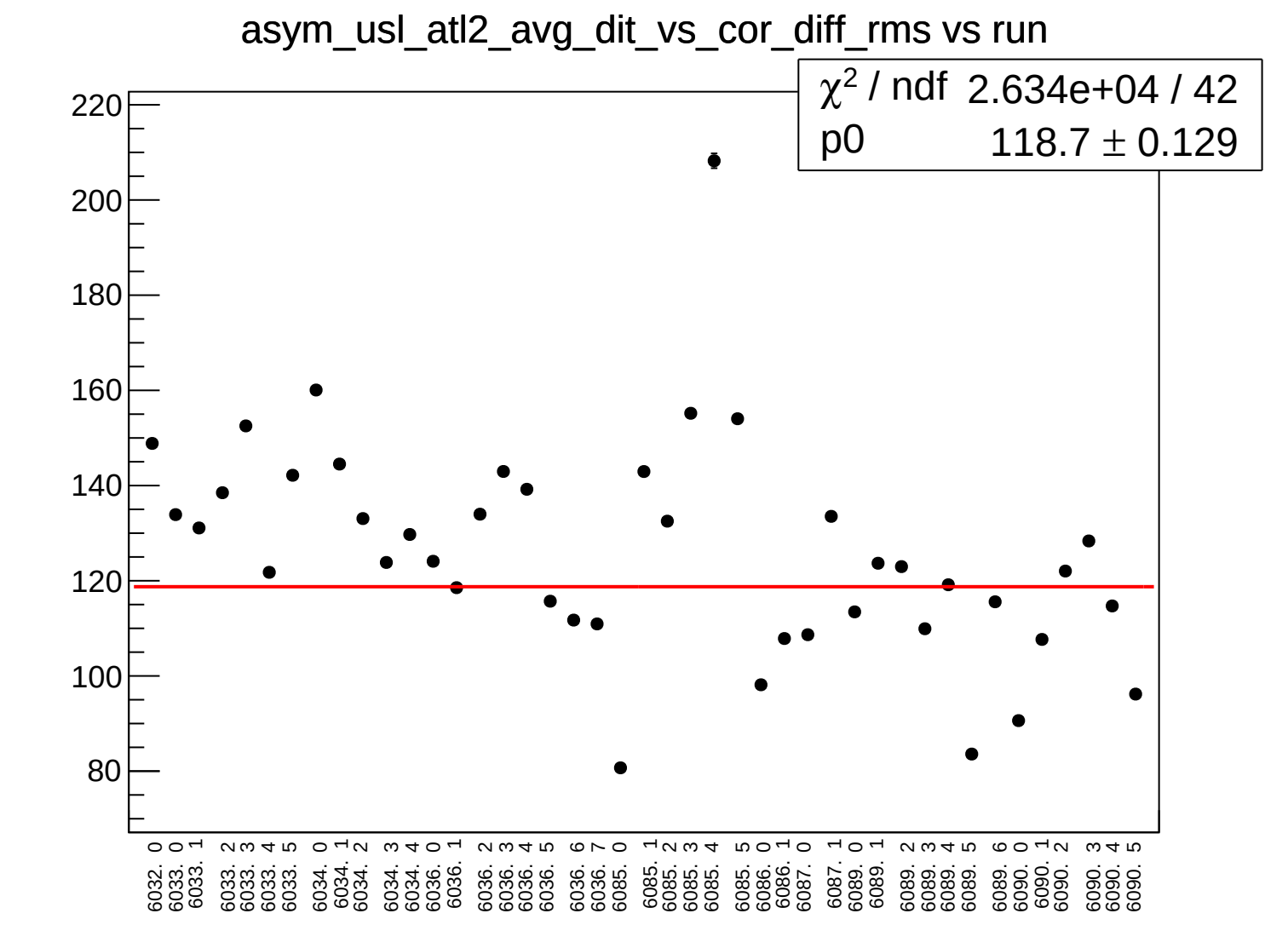

asym_usl_atl2_avg_rms vs run
χ² / ndf 3076 / 42
p0 2822 ± 3.025
3300
3200
3100
3000
2900
2800
2700
2600
2500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

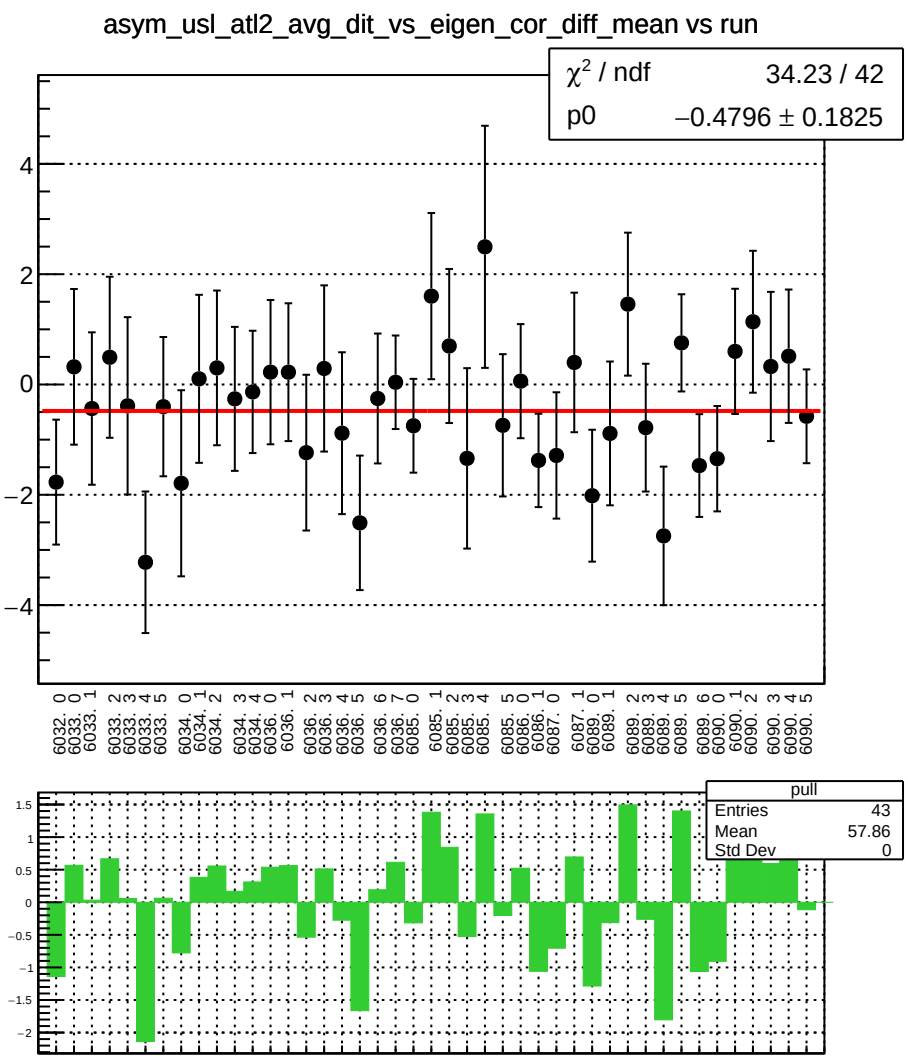

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.67 / 42
p0 −5.014e−13 ± 2.599e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 39.11
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1942
Std Dev 0.8497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

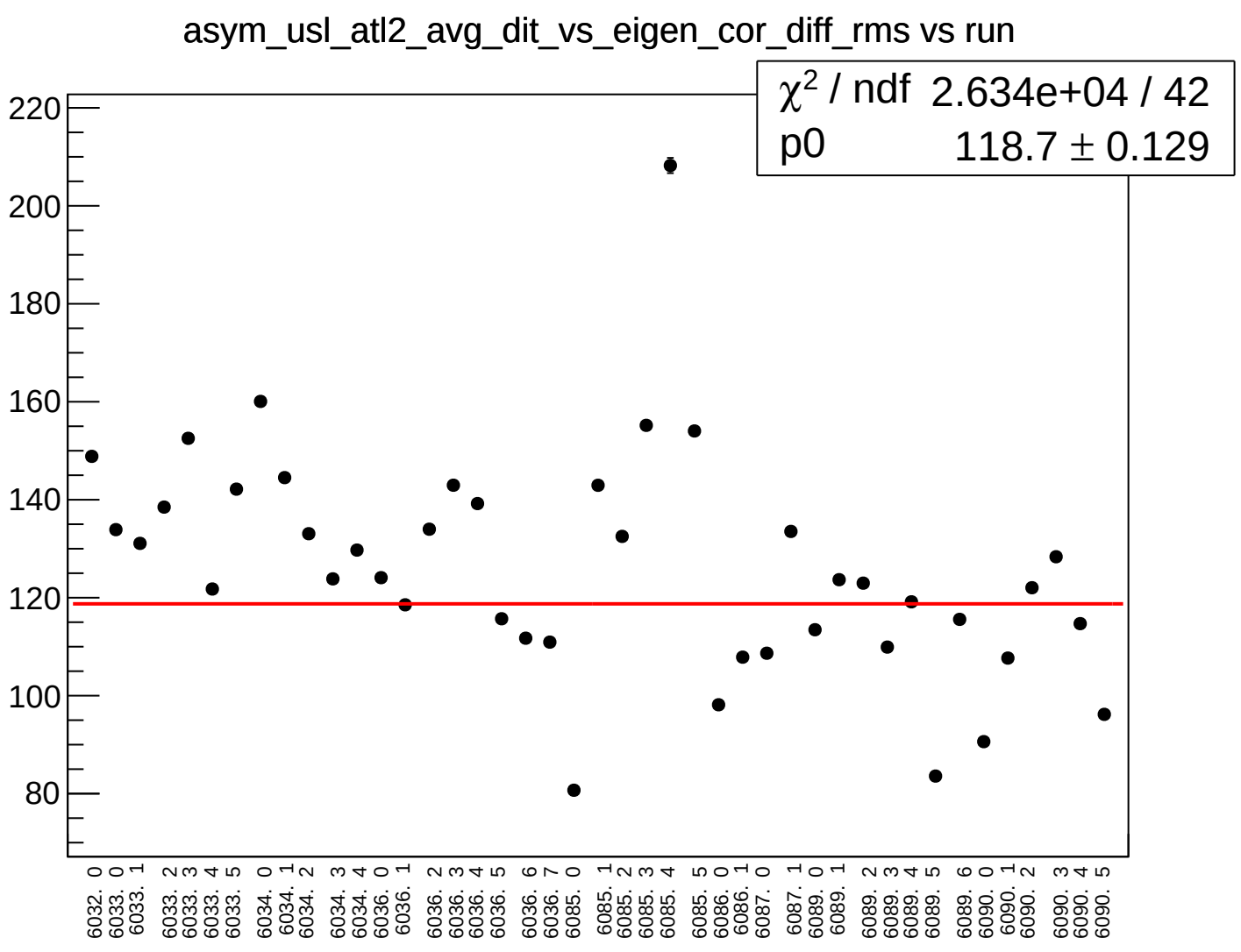

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.409e+05 / 42
p0 1.059e−10 ± 1.838e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

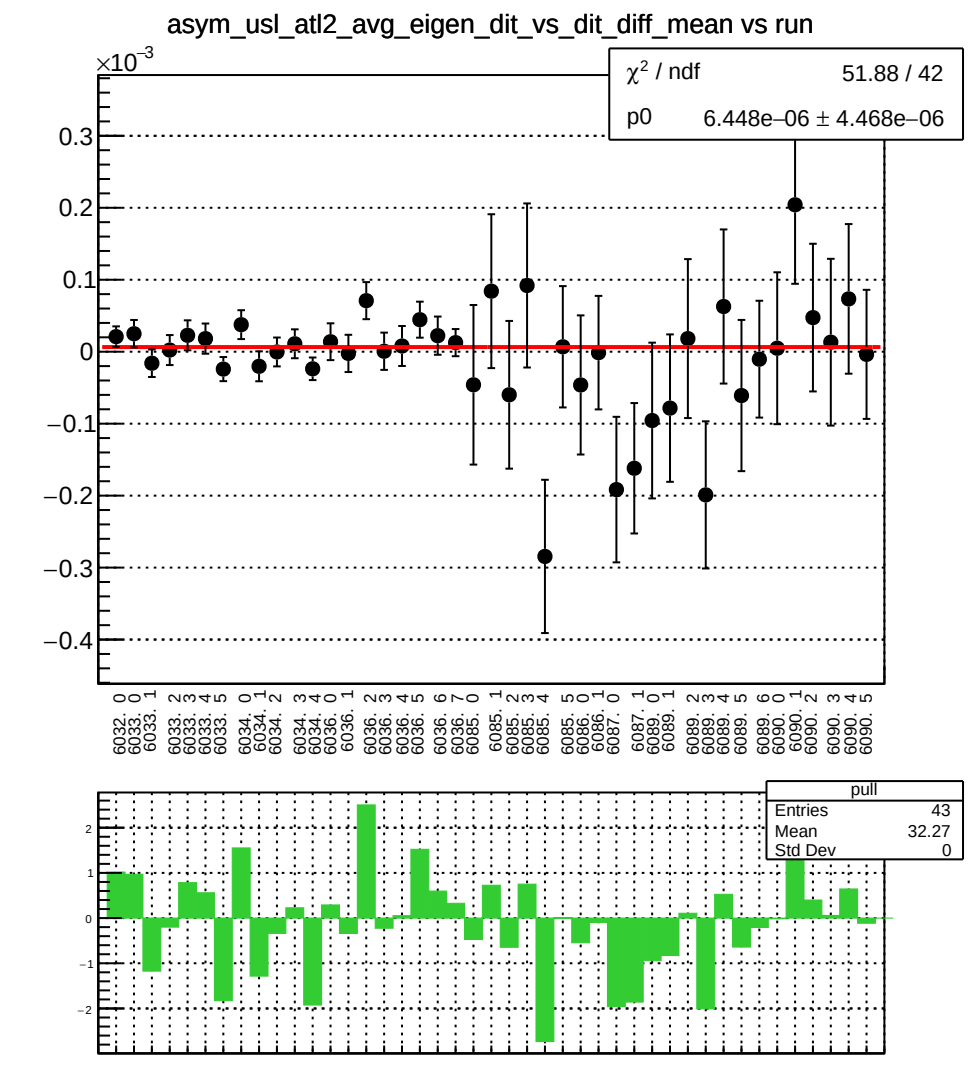

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.23 / 42
p0 −0.4796 ± 0.1825
pull
Entries 43
Mean 57.86
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

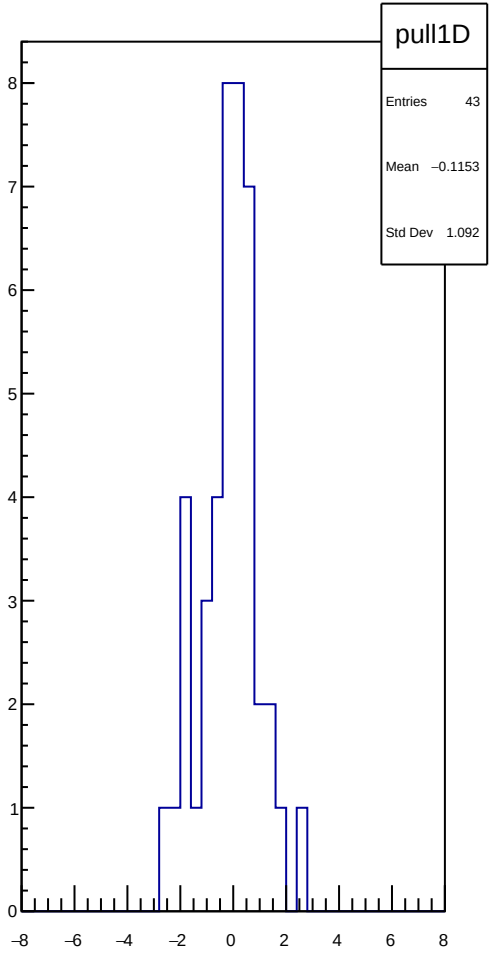

pull1D
Entries 43
Mean 0.03381
Std Dev 0.8916

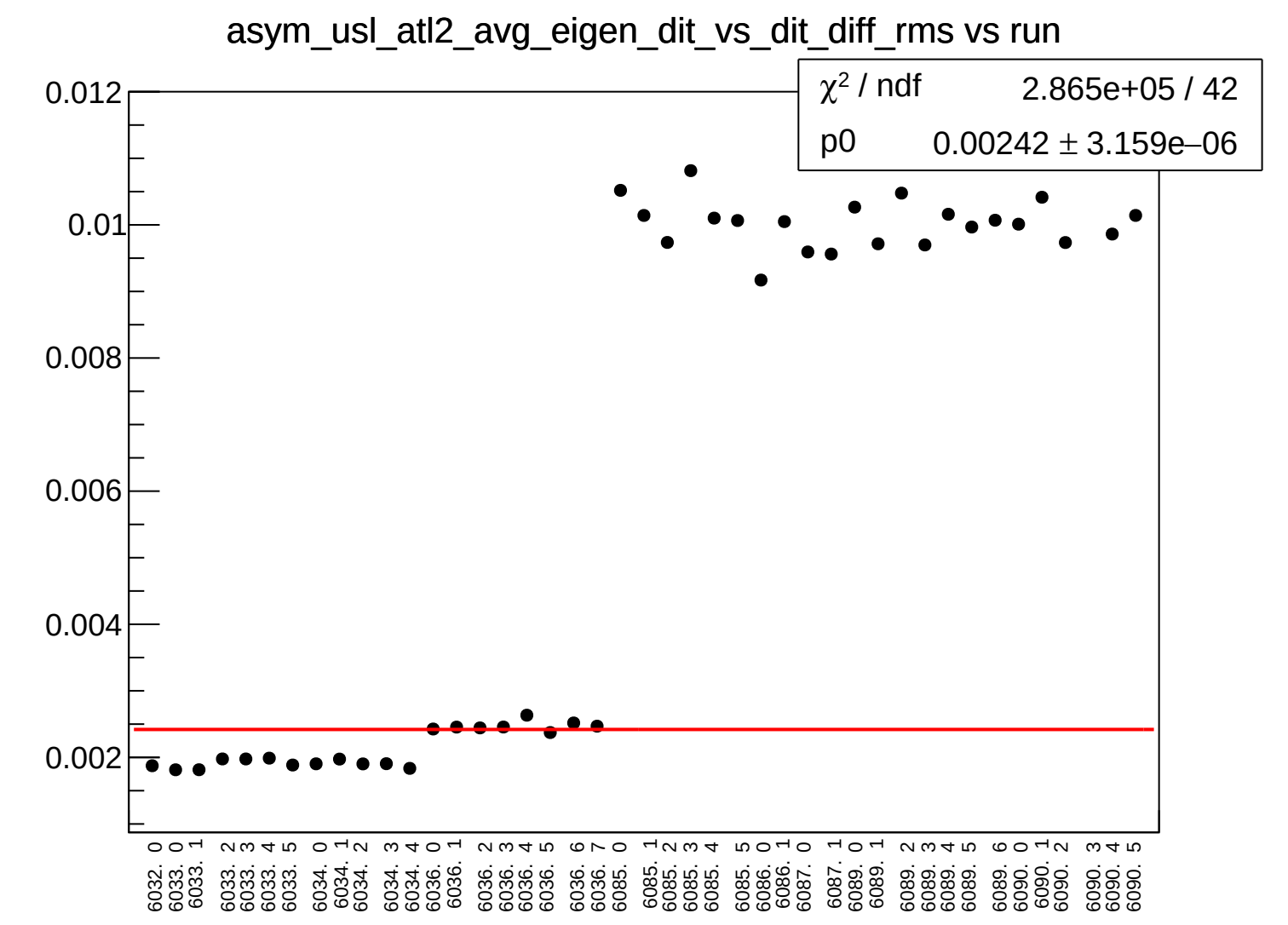

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.634e+04 / 42
p0 118.7 ± 0.129
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

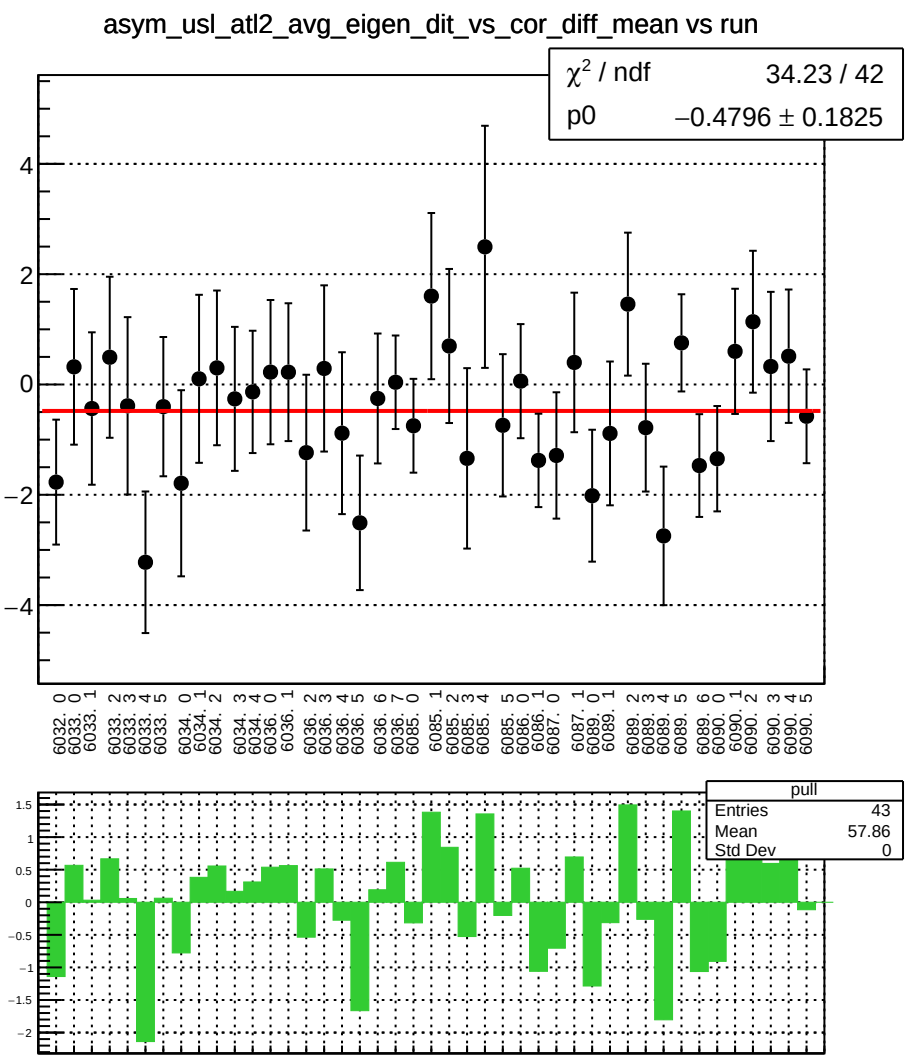

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.23 / 42
p0 −0.4796 ± 0.1825
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.86
Std Dev 0
pull1D
Entries 43
Mean 0.03381
Std Dev 0.8916

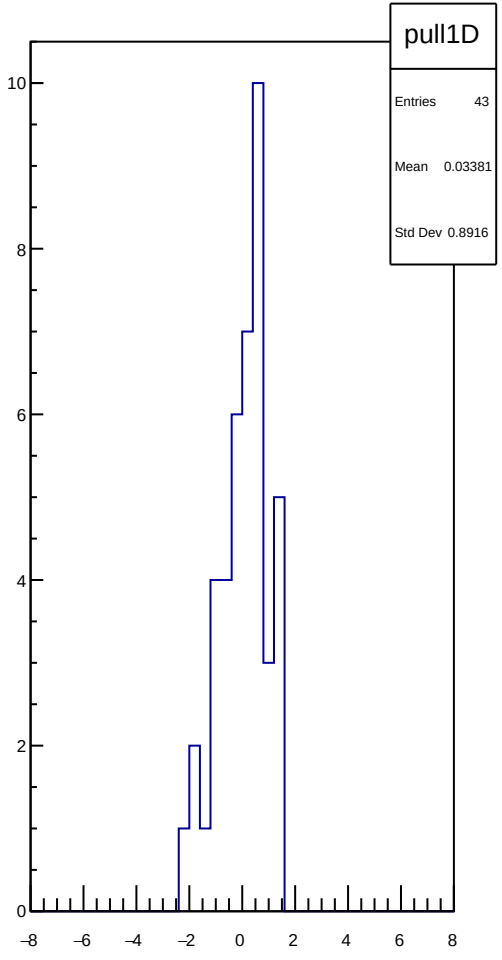

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.634e+04 / 42
p0 118.7 ± 0.129
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

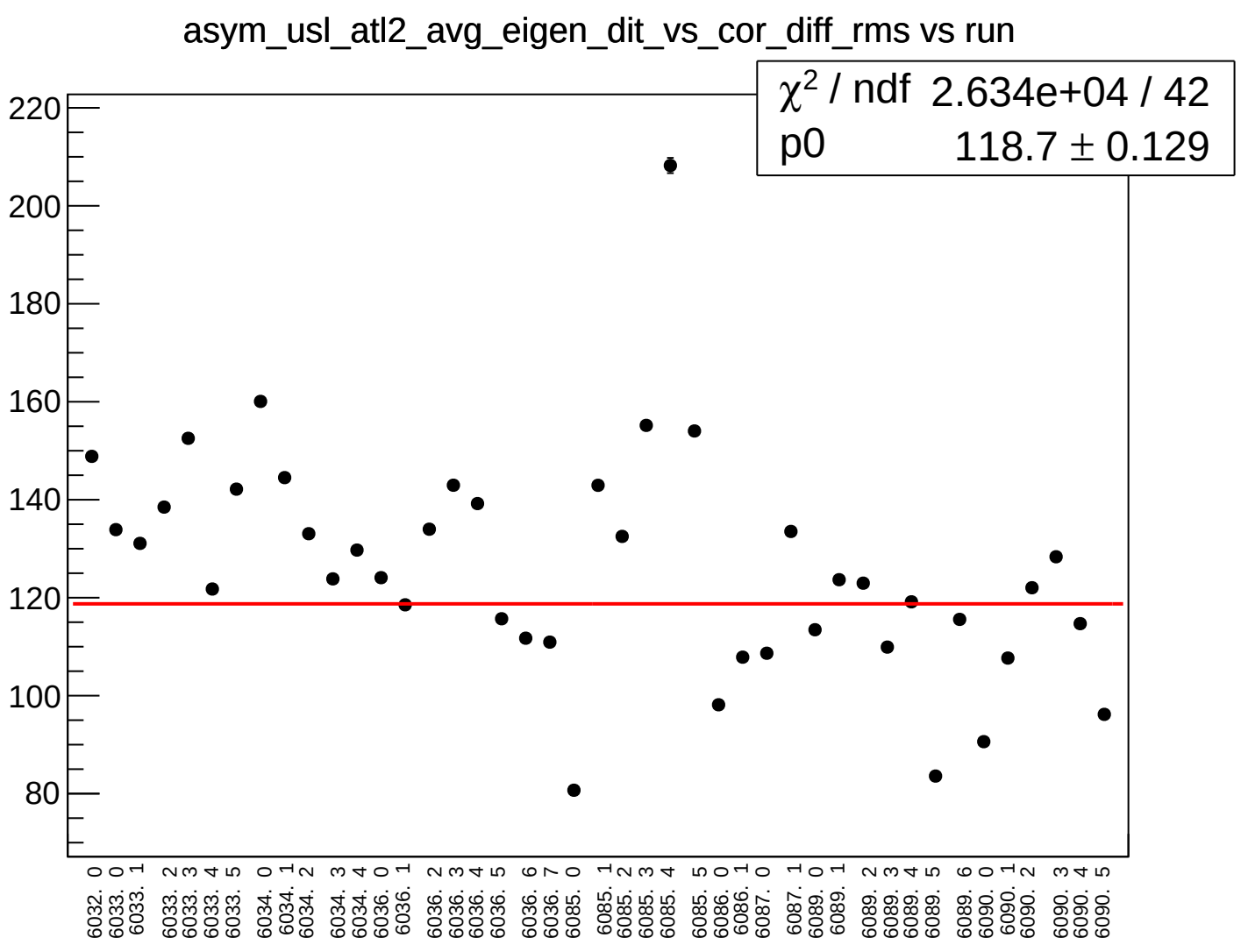

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.88 / 42
p0 6.448e−06 ± 4.468e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.27
Std Dev 0
2
1
0
−1
−2

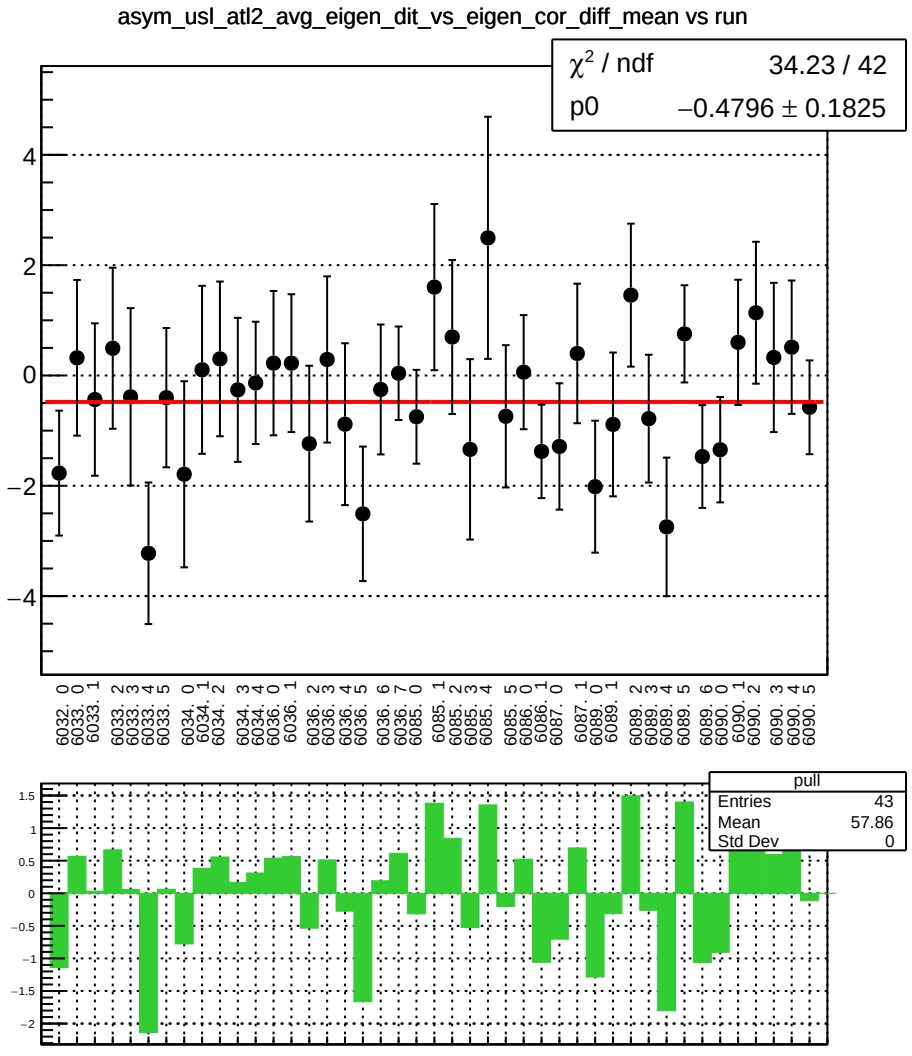

pull1D
Entries 43
Mean −0.1153
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

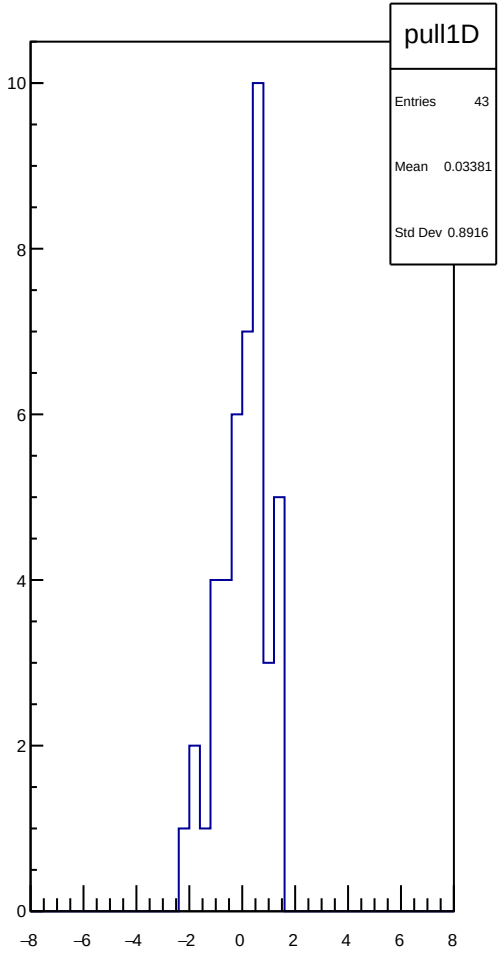

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.865e+05 / 42
p0 0.00242 ± 3.159e−06
0.012
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

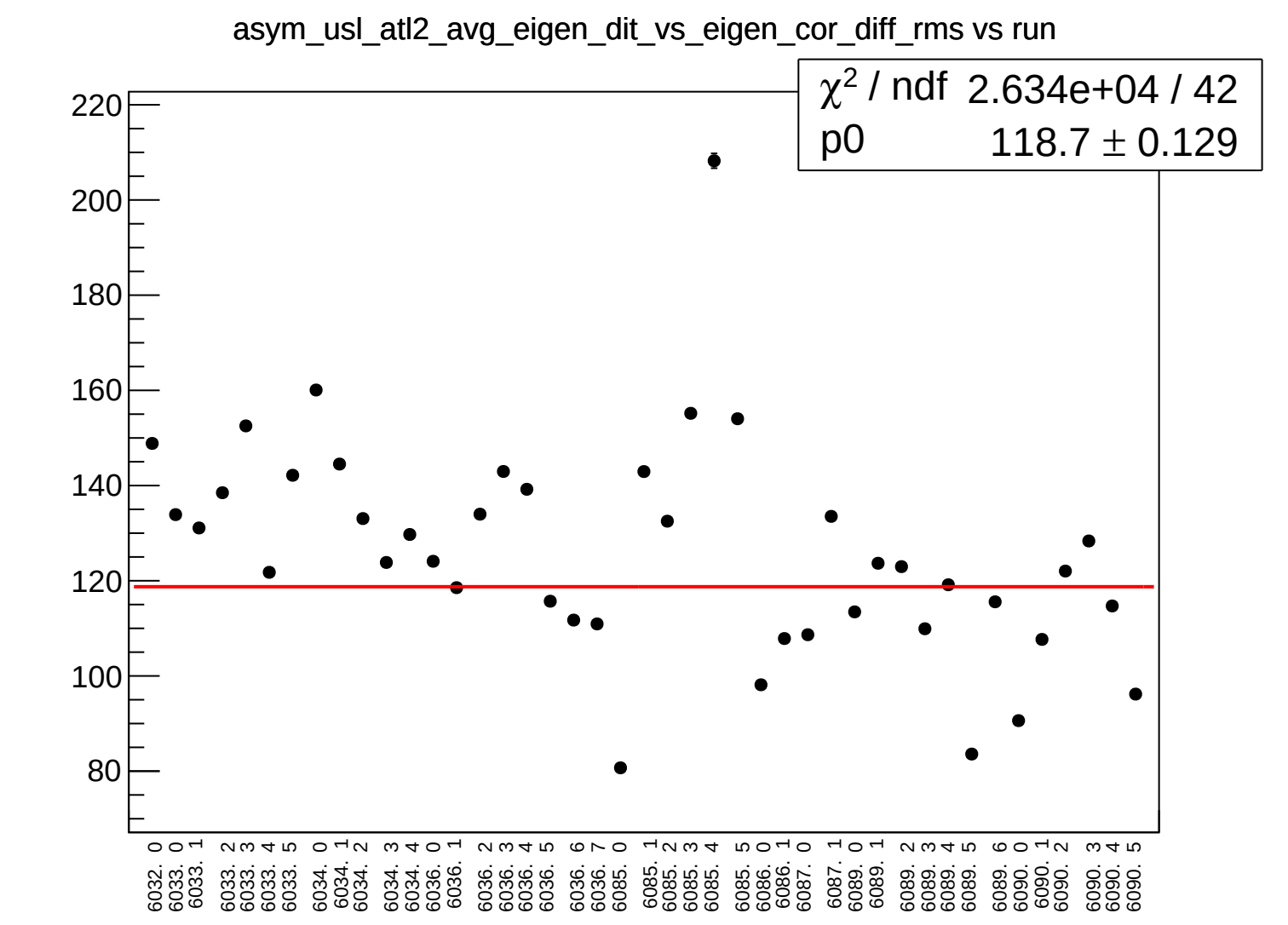

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.23 / 42
p0 −0.4796 ± 0.1825
pull
Entries 43
Mean 57.86
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

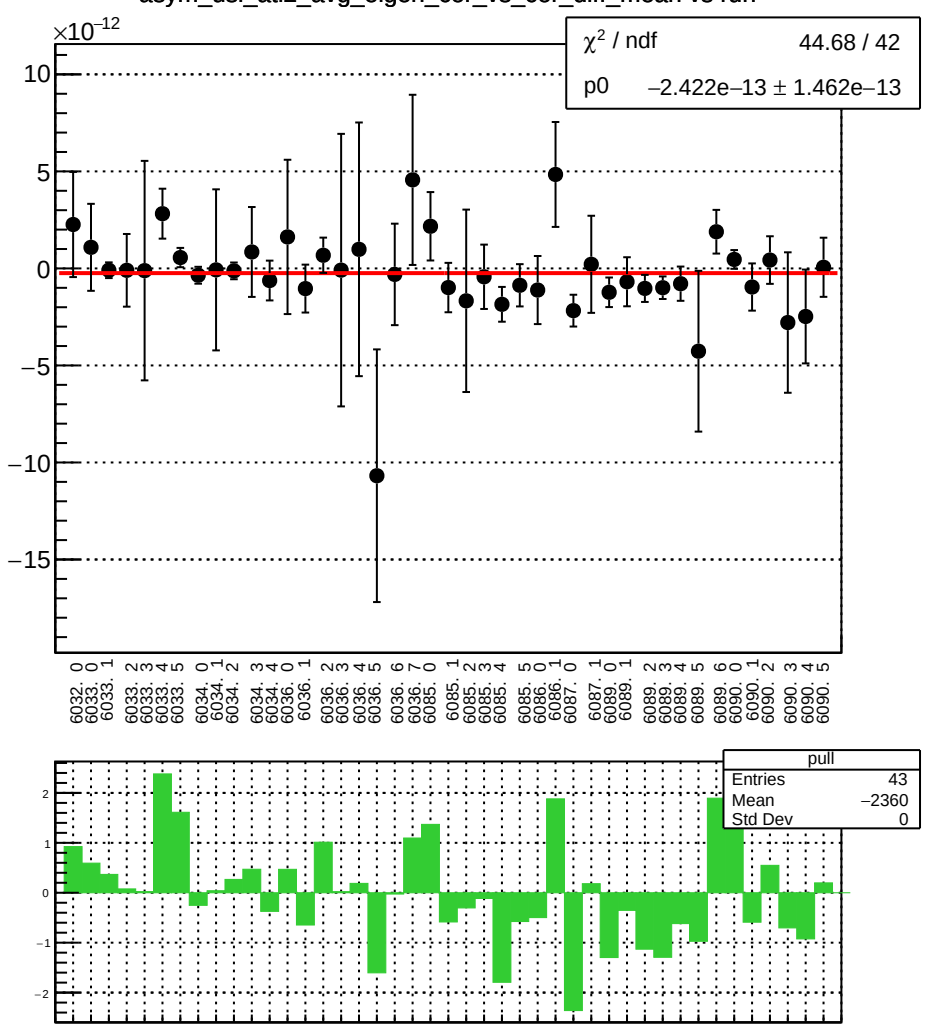

pull1D
Entries 43
Mean 0.03381
Std Dev 0.8916

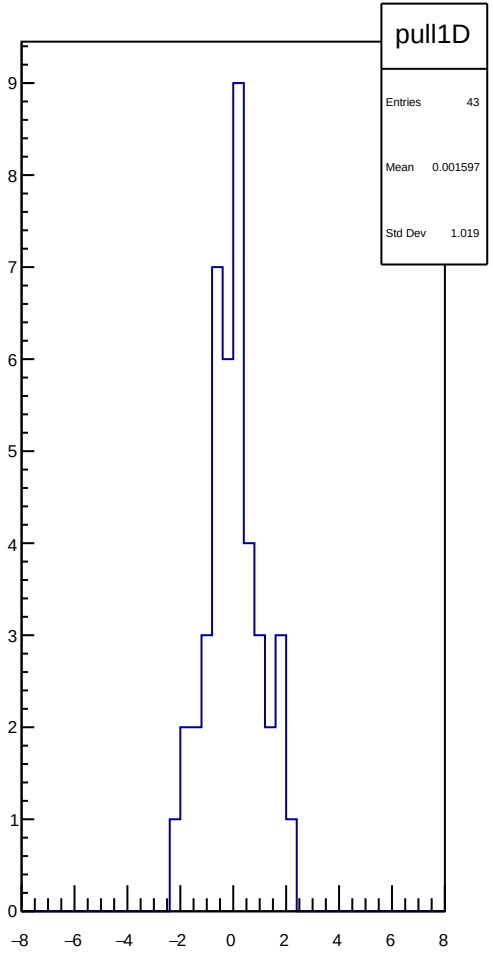

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.634e+04 / 42
p0 118.7 ± 0.129
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

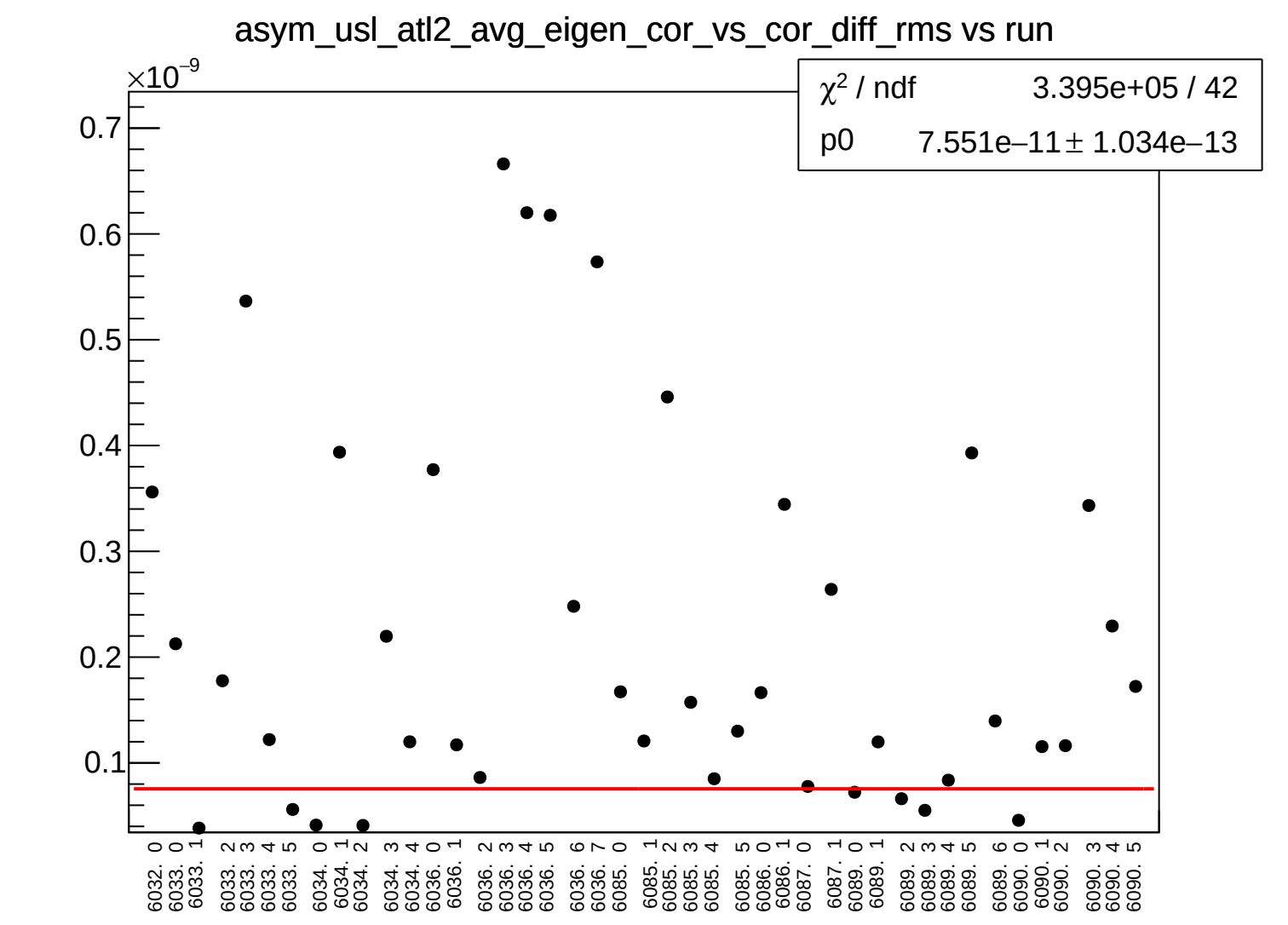

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.23 / 42
p0 −0.4796 ± 0.1825
pull
Entries 43
Mean 57.86
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

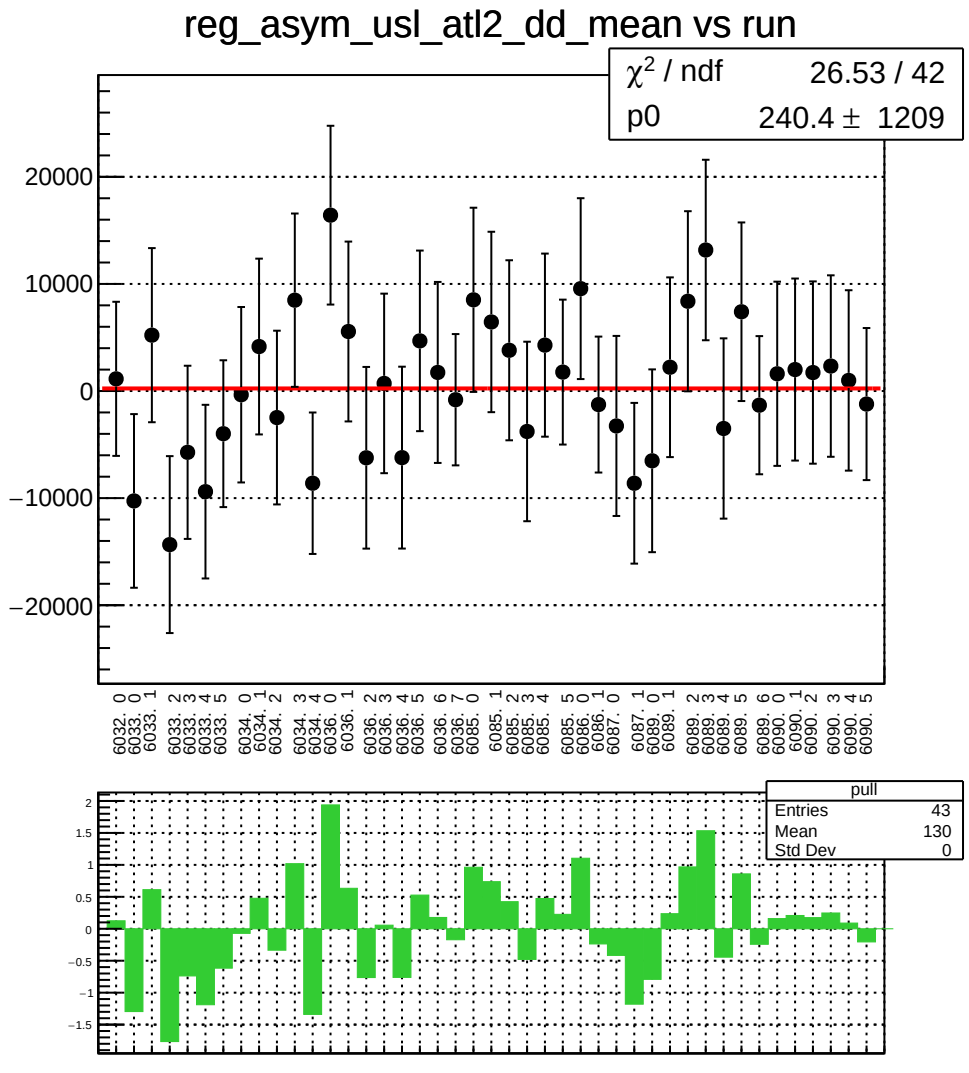

pull1D
Entries 43
Mean 0.03381
Std Dev 0.8916

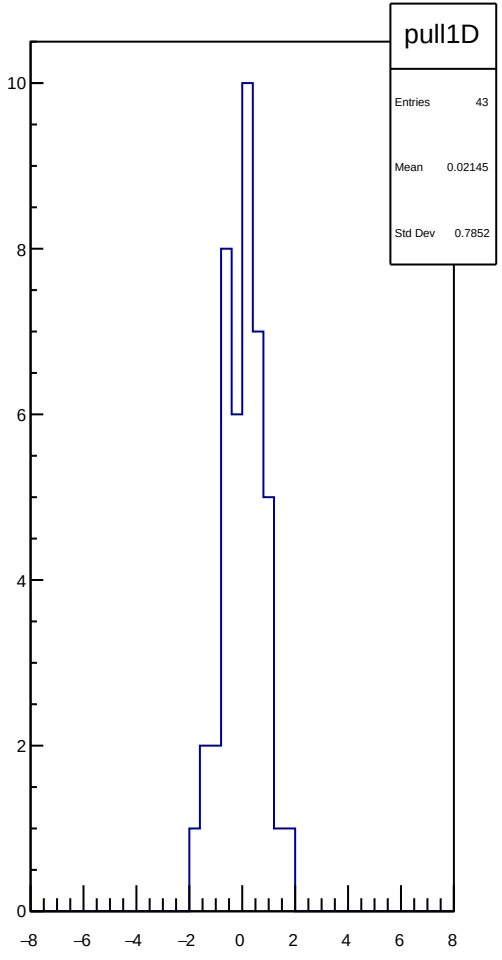

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.634e+04 / 42
p0 118.7 ± 0.129
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

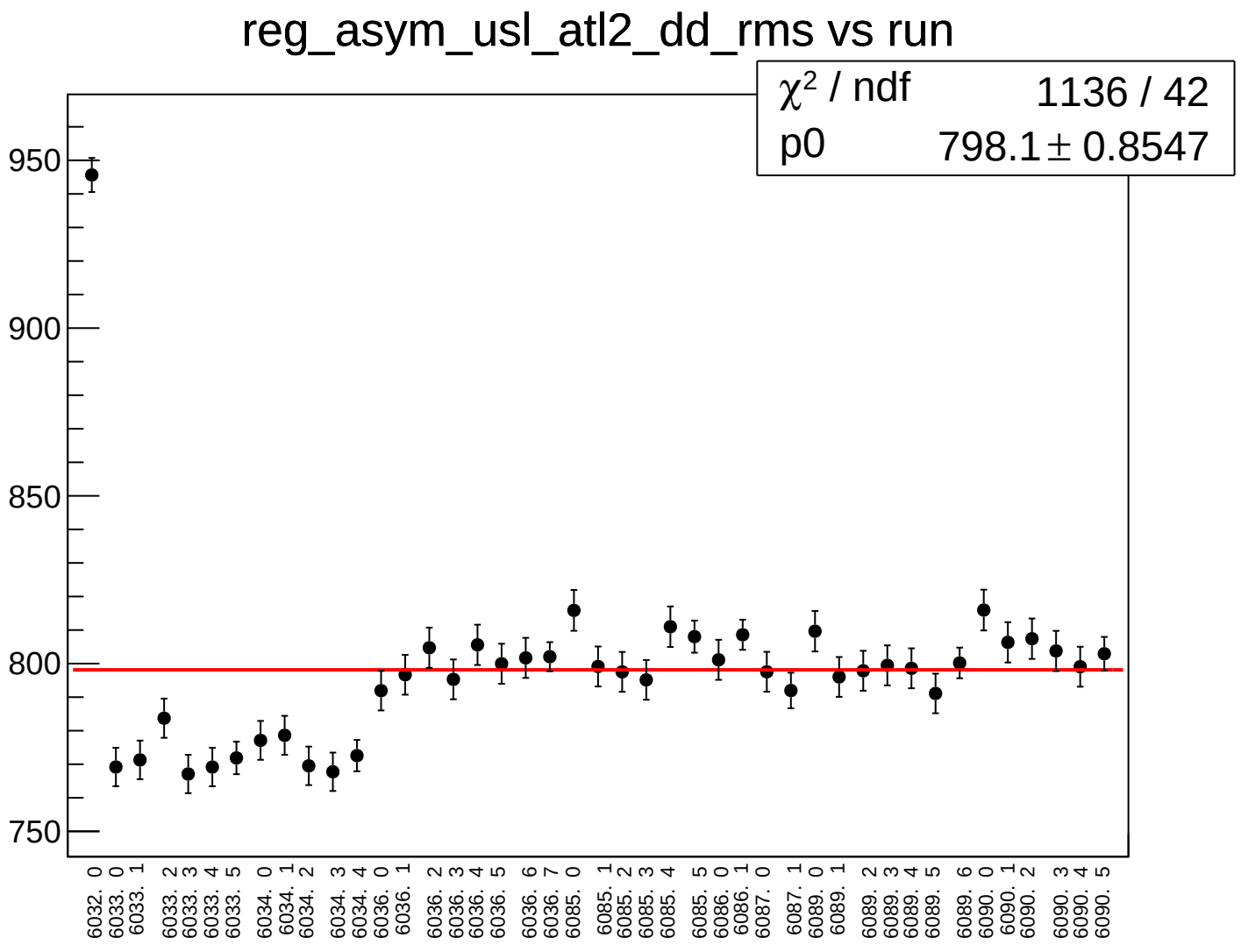

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 44.68 / 42
p0 −2.422e−13 ± 1.462e−13
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2360
Std Dev 0
2
1
0
−1
−2

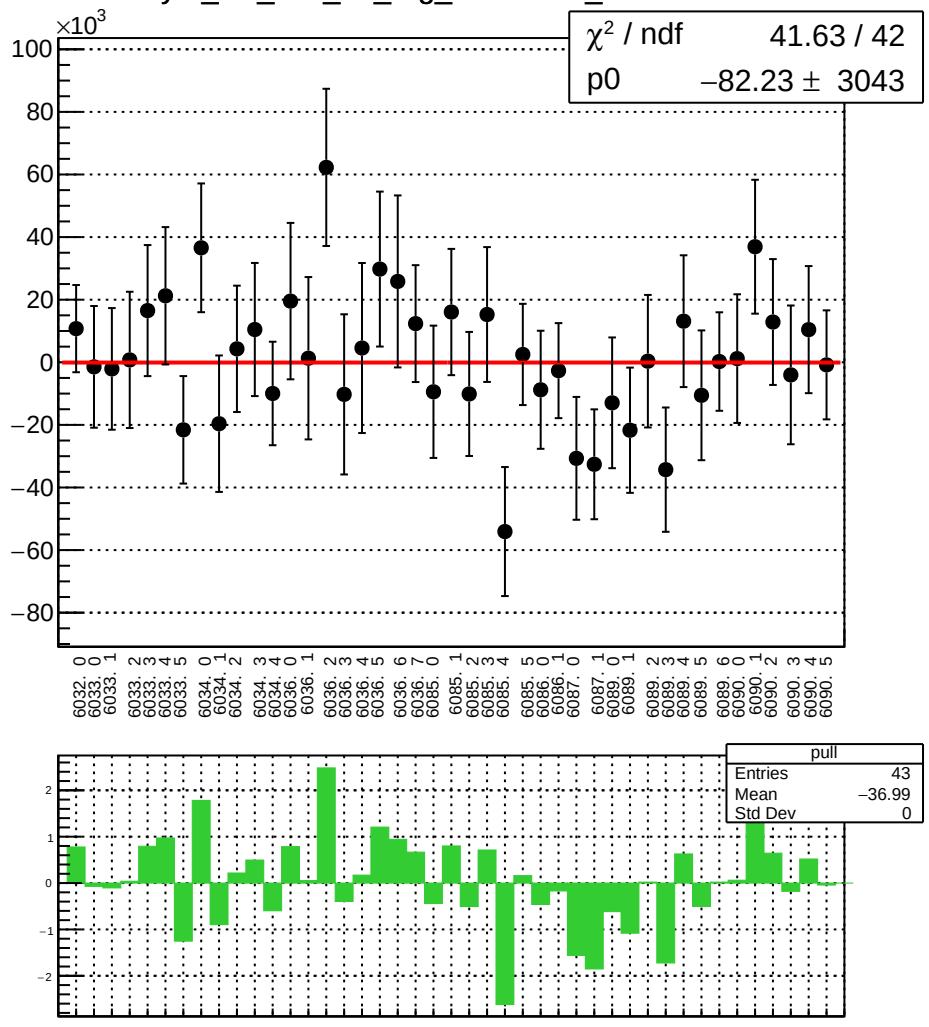

pull1D
Entries 43
Mean 0.001597
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

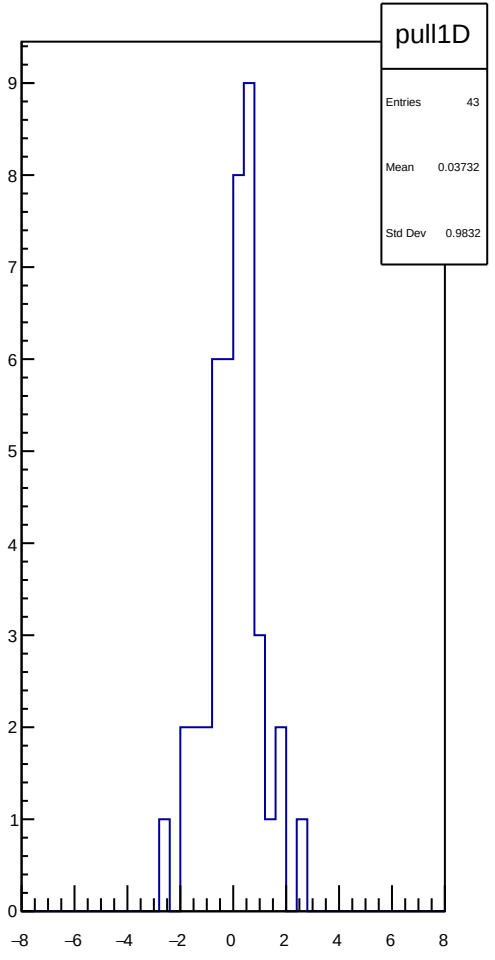

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.395e+05 / 42
p0 7.551e−11 ± 1.034e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

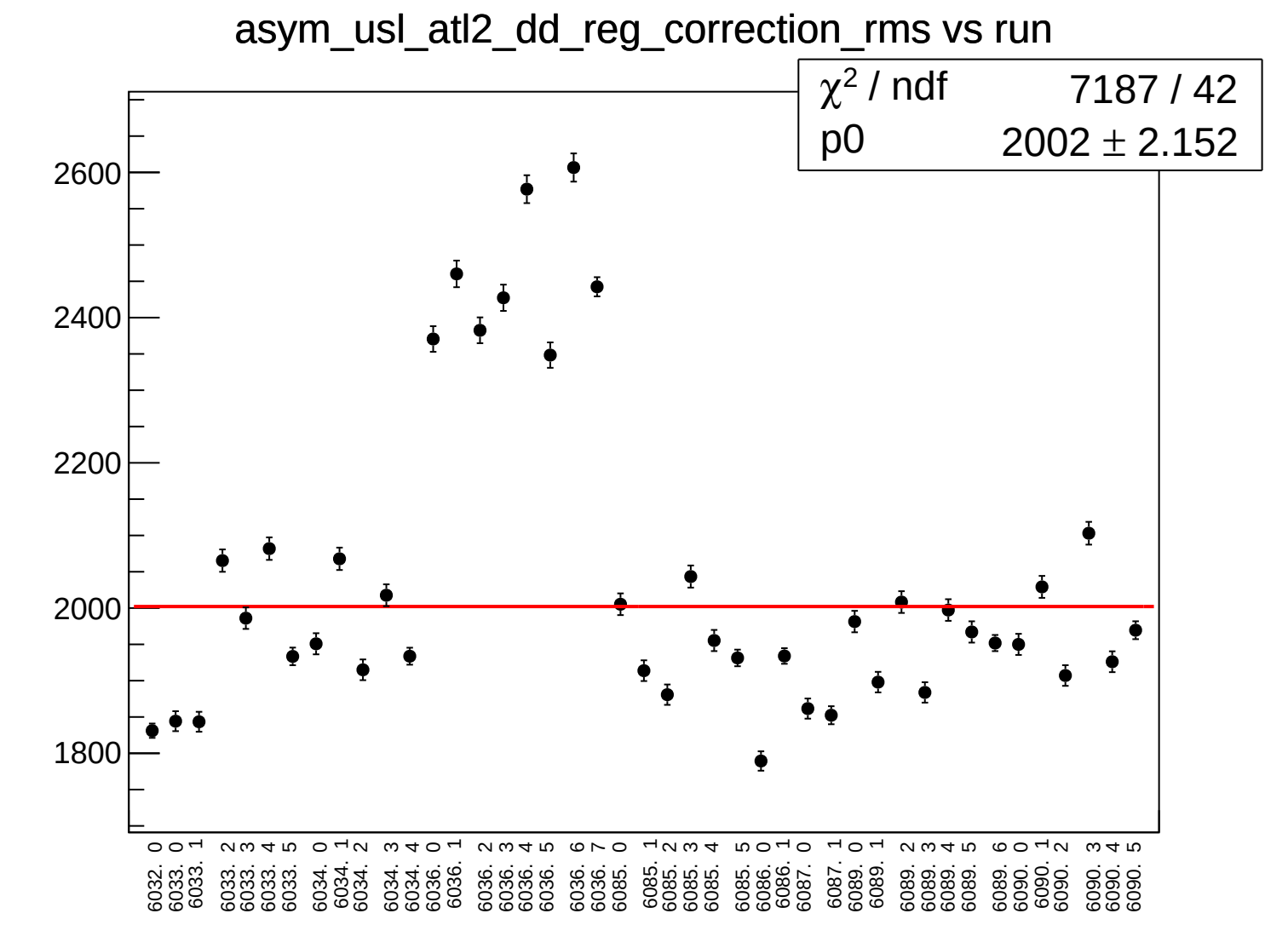

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 26.53 / 42
p0 240.4 ± 1209
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

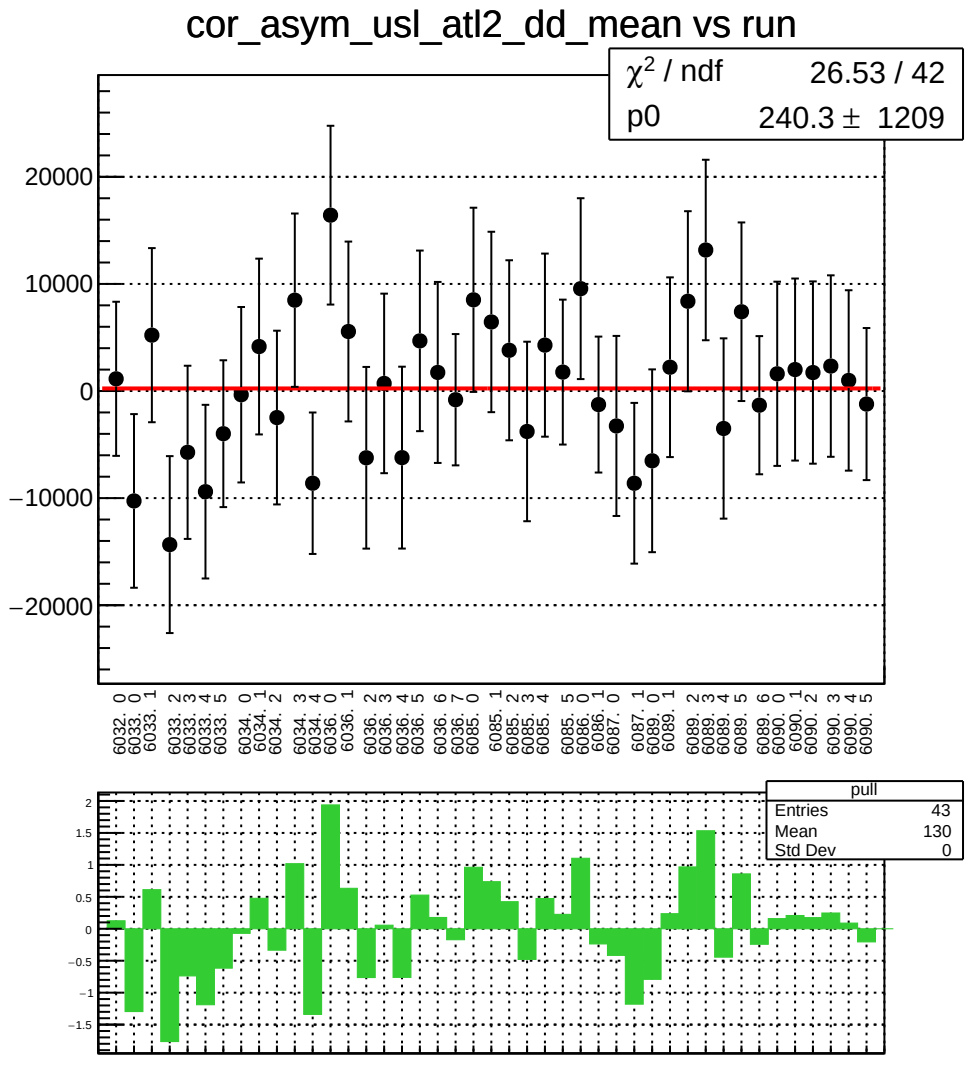

pull1D
Entries 43
Mean 0.02145
Std Dev 0.7852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

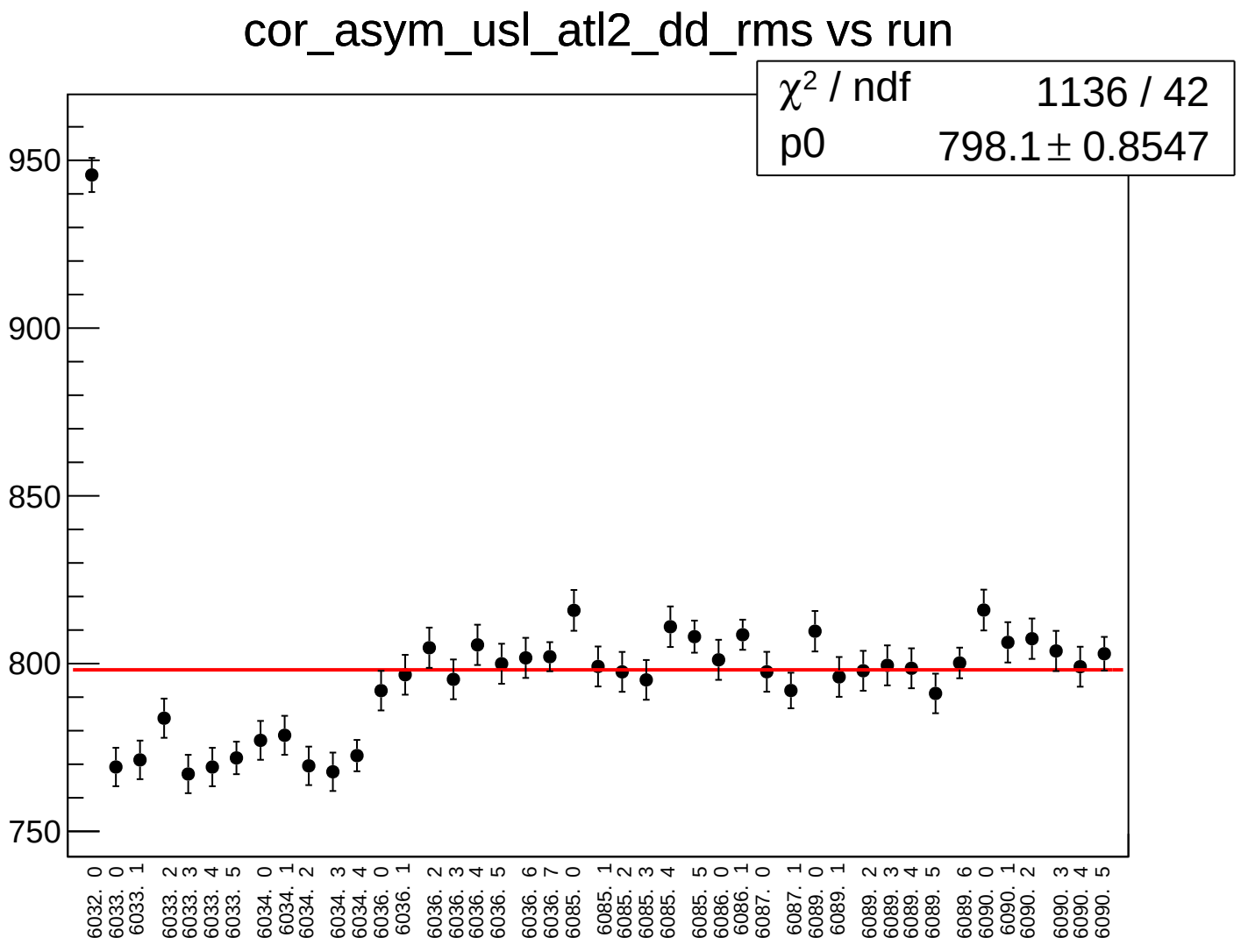

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1136 / 42
p0 798.1 ± 0.8547
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

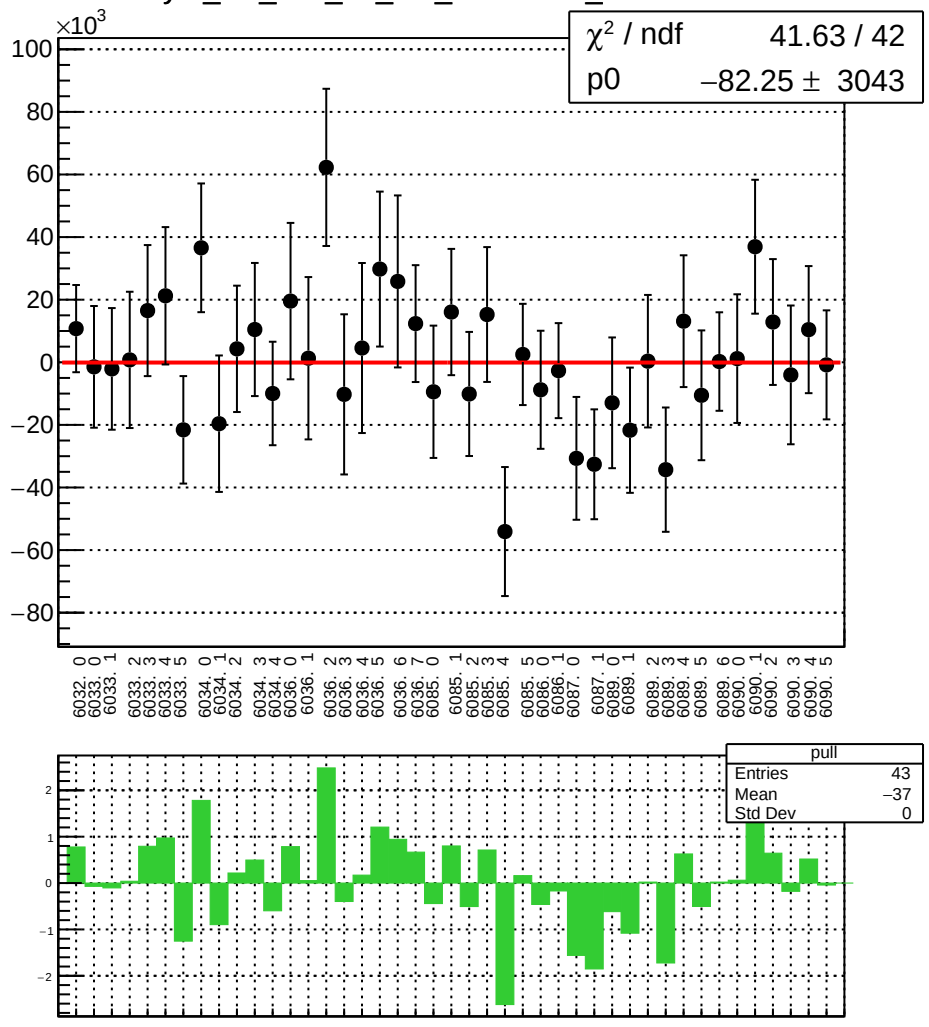

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.63 / 42
p0 −82.23 ± 3043
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.99
Std Dev 0
2
1
0
−1
−2

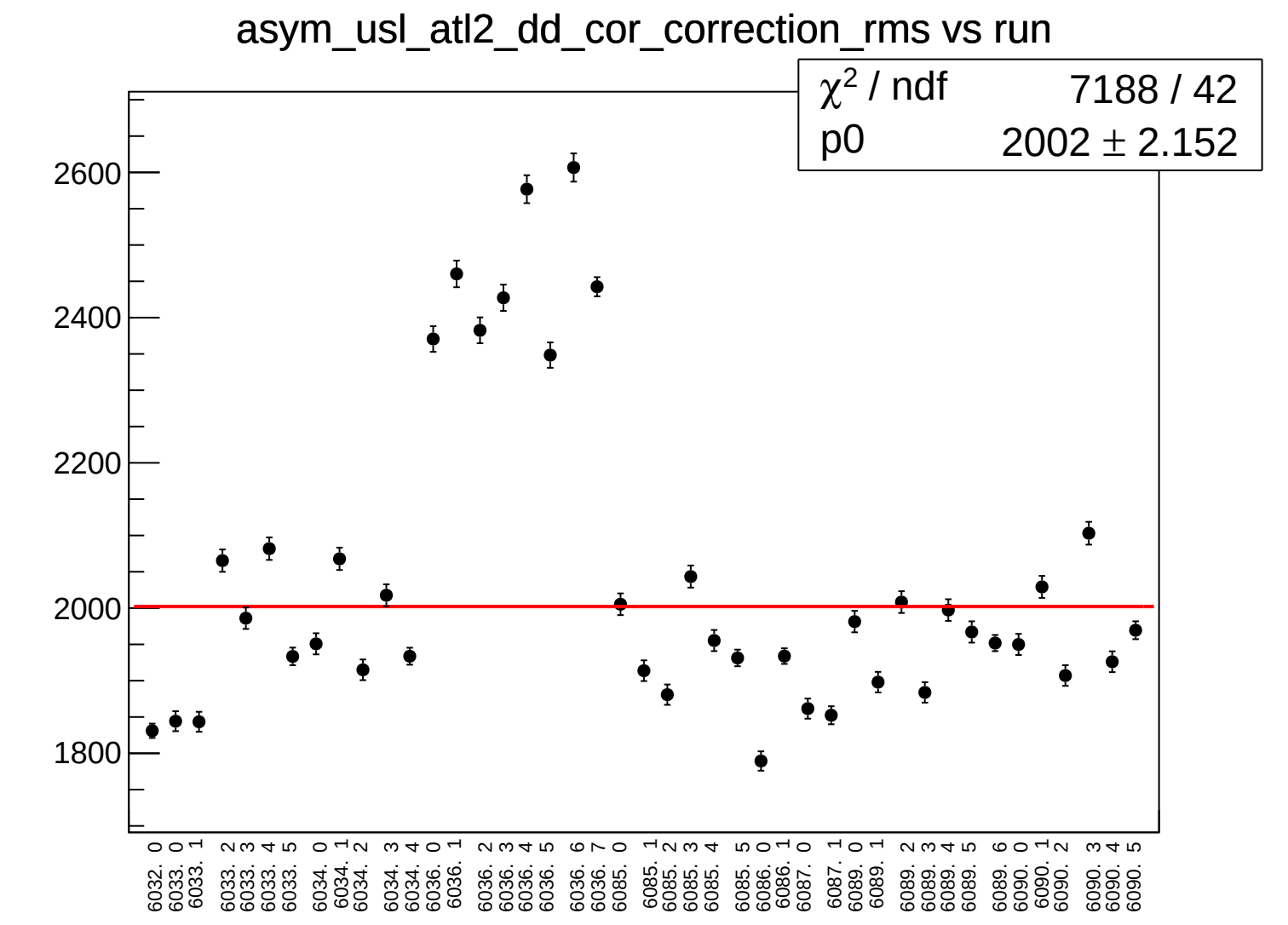

pull1D
Entries 43
Mean 0.03732
Std Dev 0.9832
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

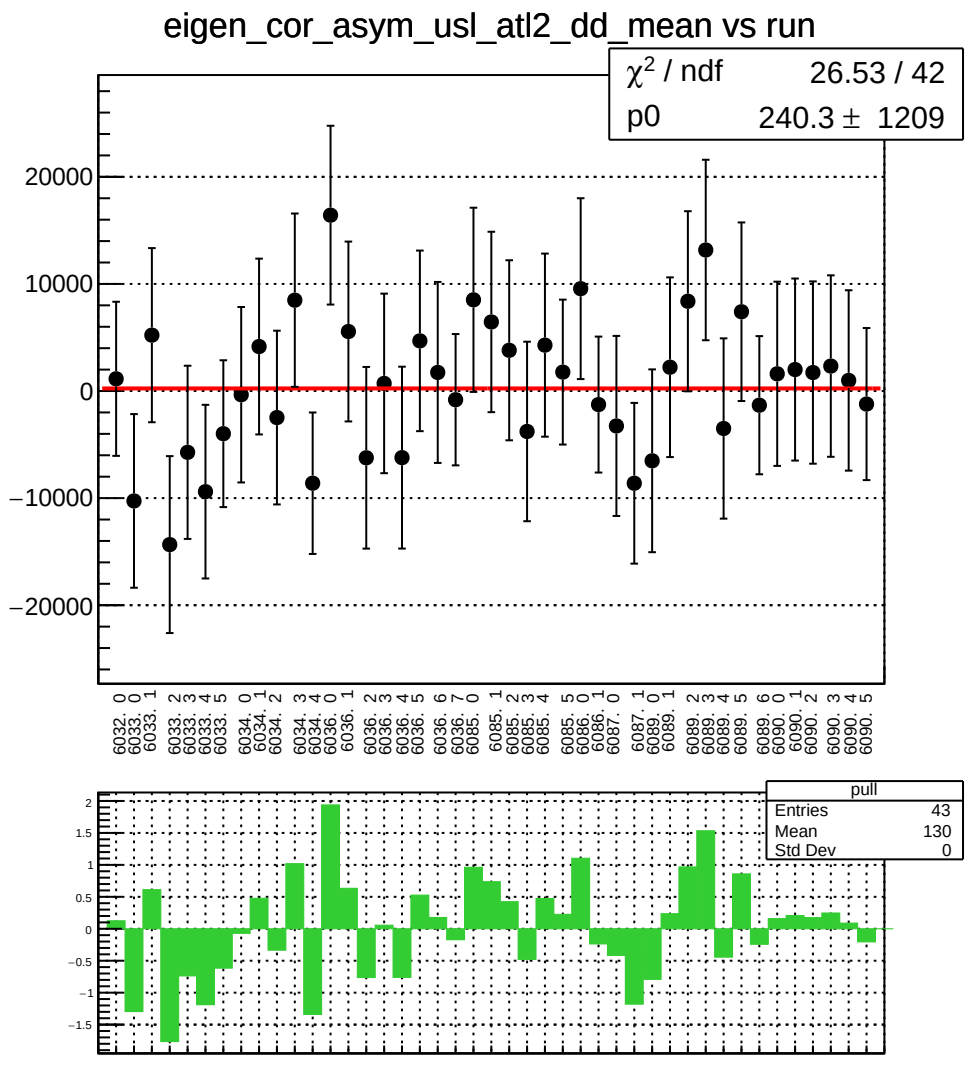

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 7187 / 42
p0 2002 ± 2.152
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

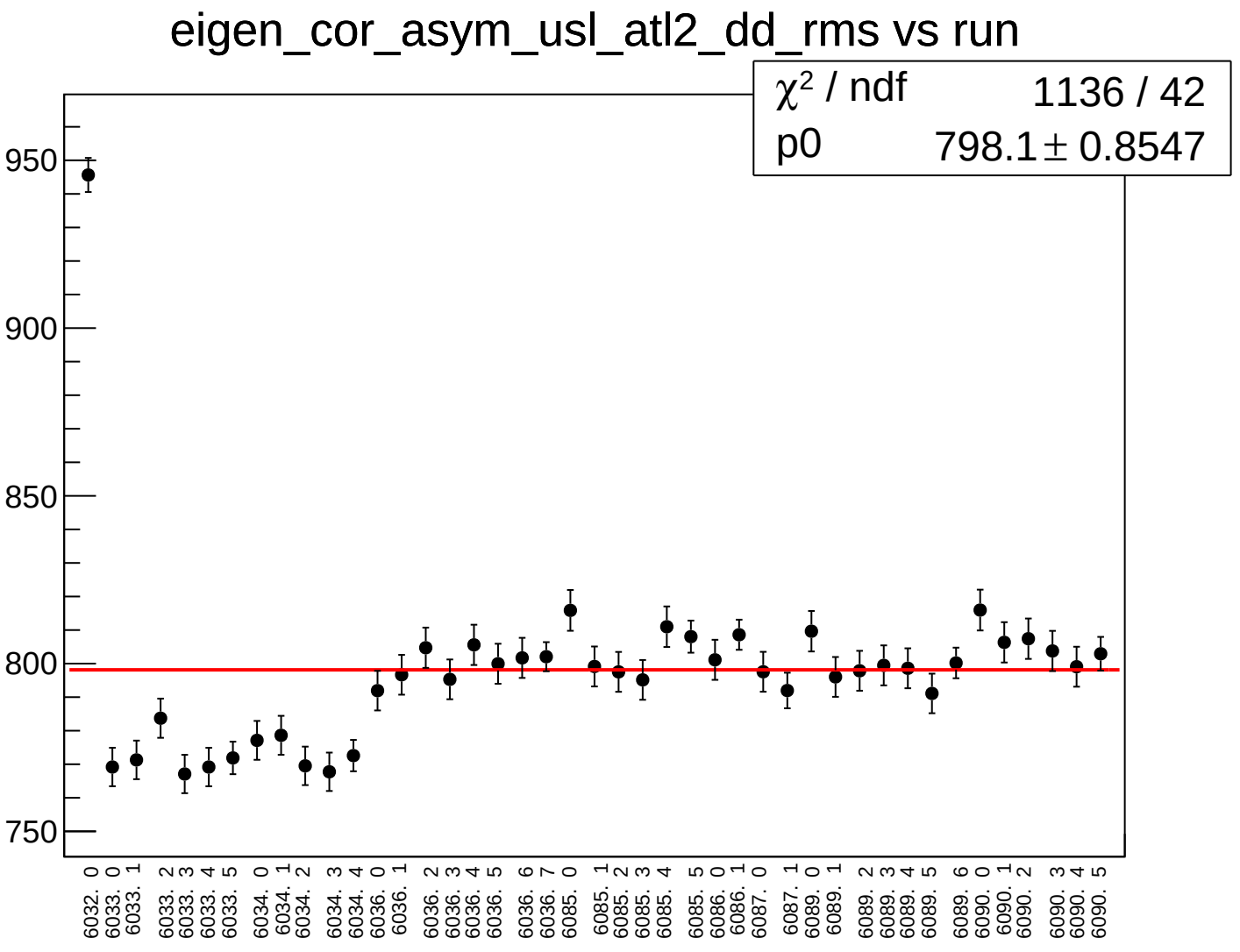

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 26.53 / 42
p0 240.3 ± 1209
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02145
Std Dev 0.7852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

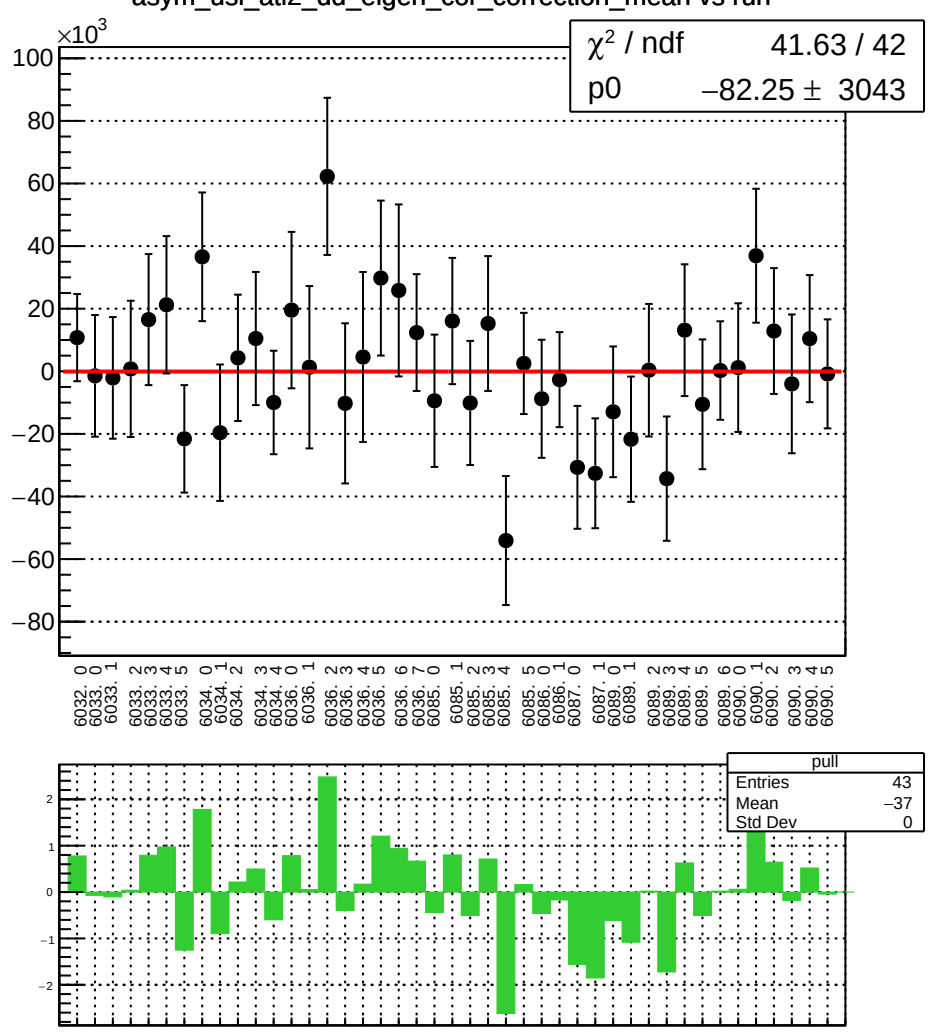

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1136 / 42
p0 798.1 ± 0.8547
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

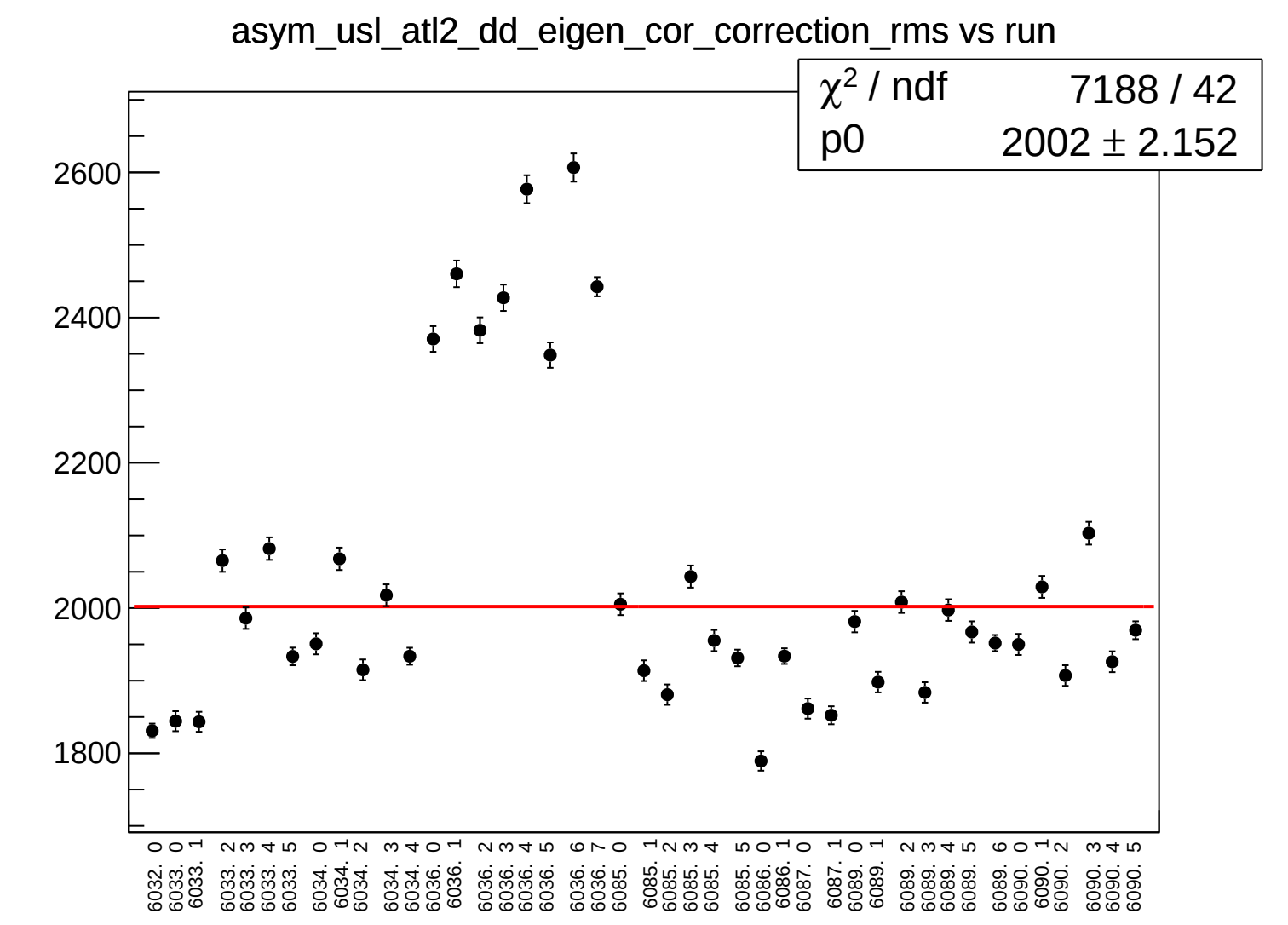

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.63 / 42
p0 −82.25 ± 3043
pull
Entries 43
Mean −37
Std Dev 0
pull1D
Entries 43
Mean 0.03732
Std Dev 0.9832

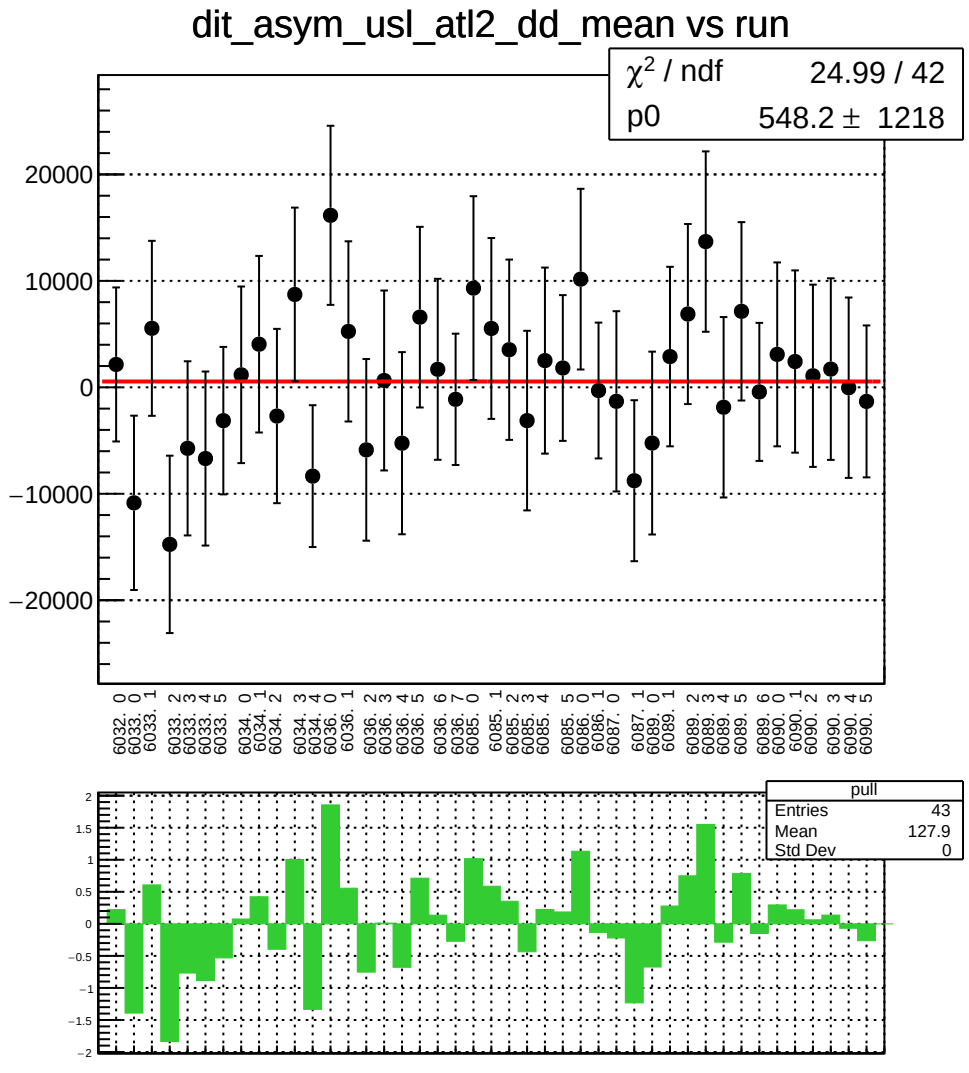

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 7188 / 42
p0 2002 ± 2.152
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

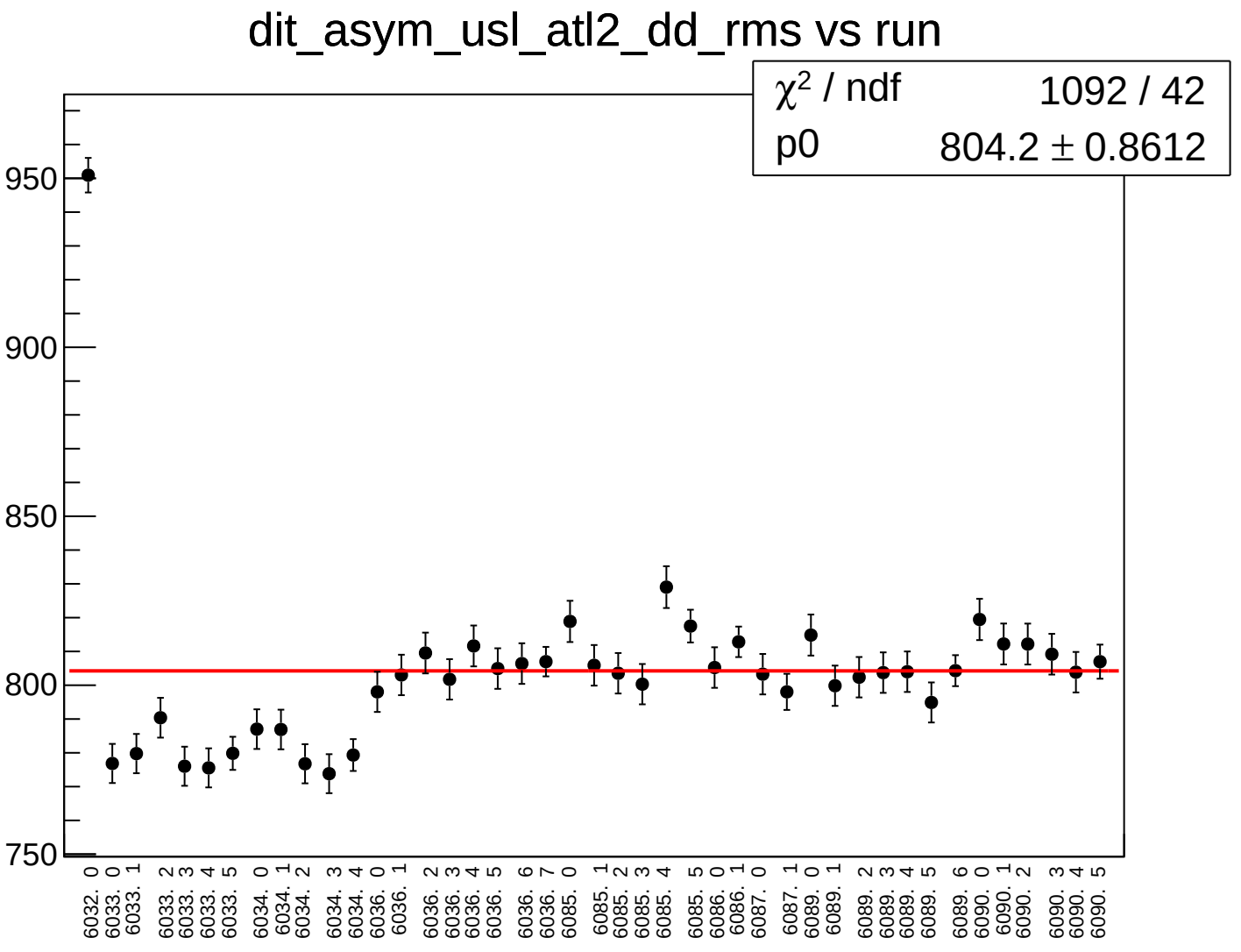

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 26.53 / 42
p0 240.3 ± 1209
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02145
Std Dev 0.7852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

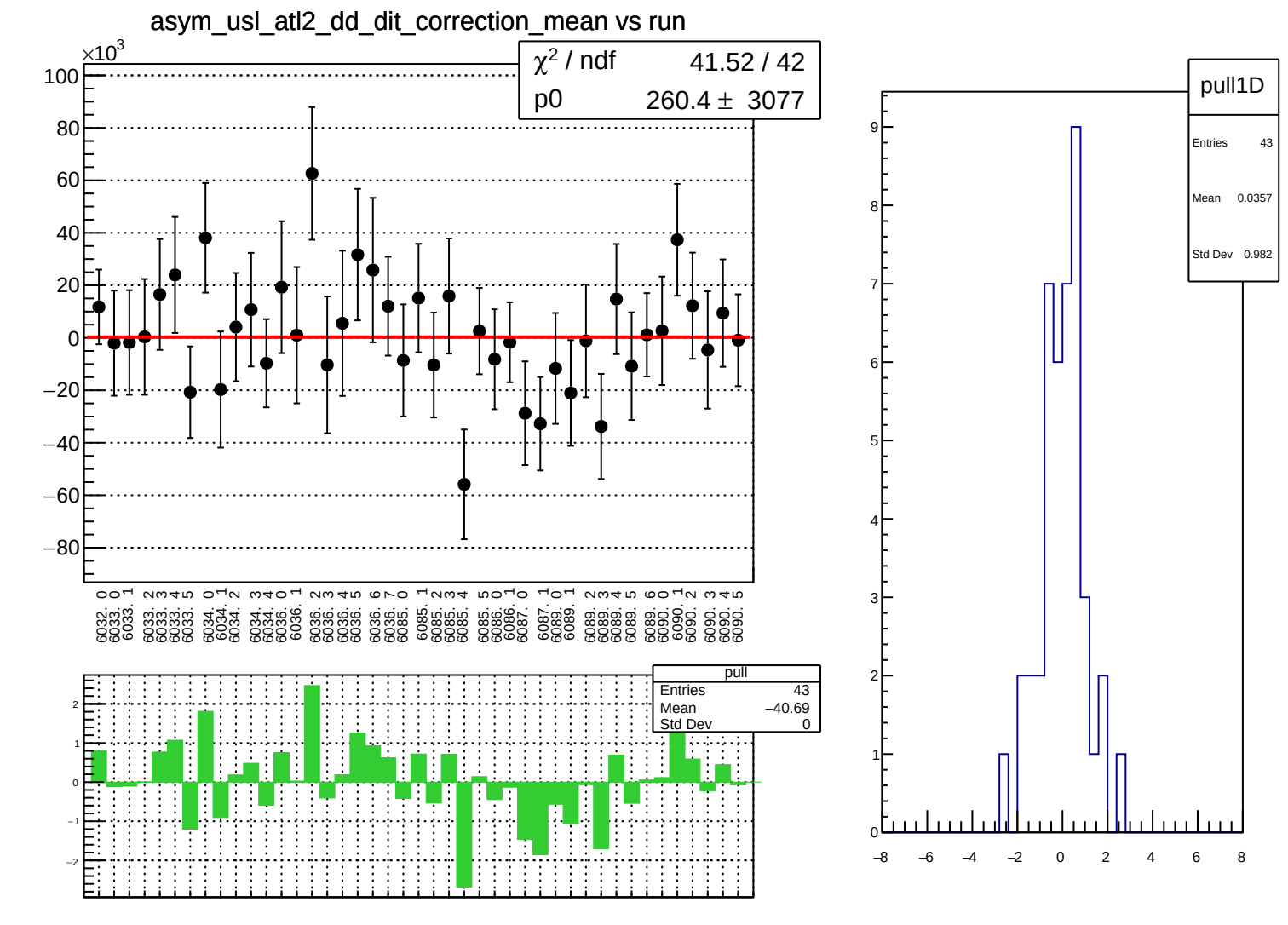

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1136 / 42
p0 798.1 ± 0.8547
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

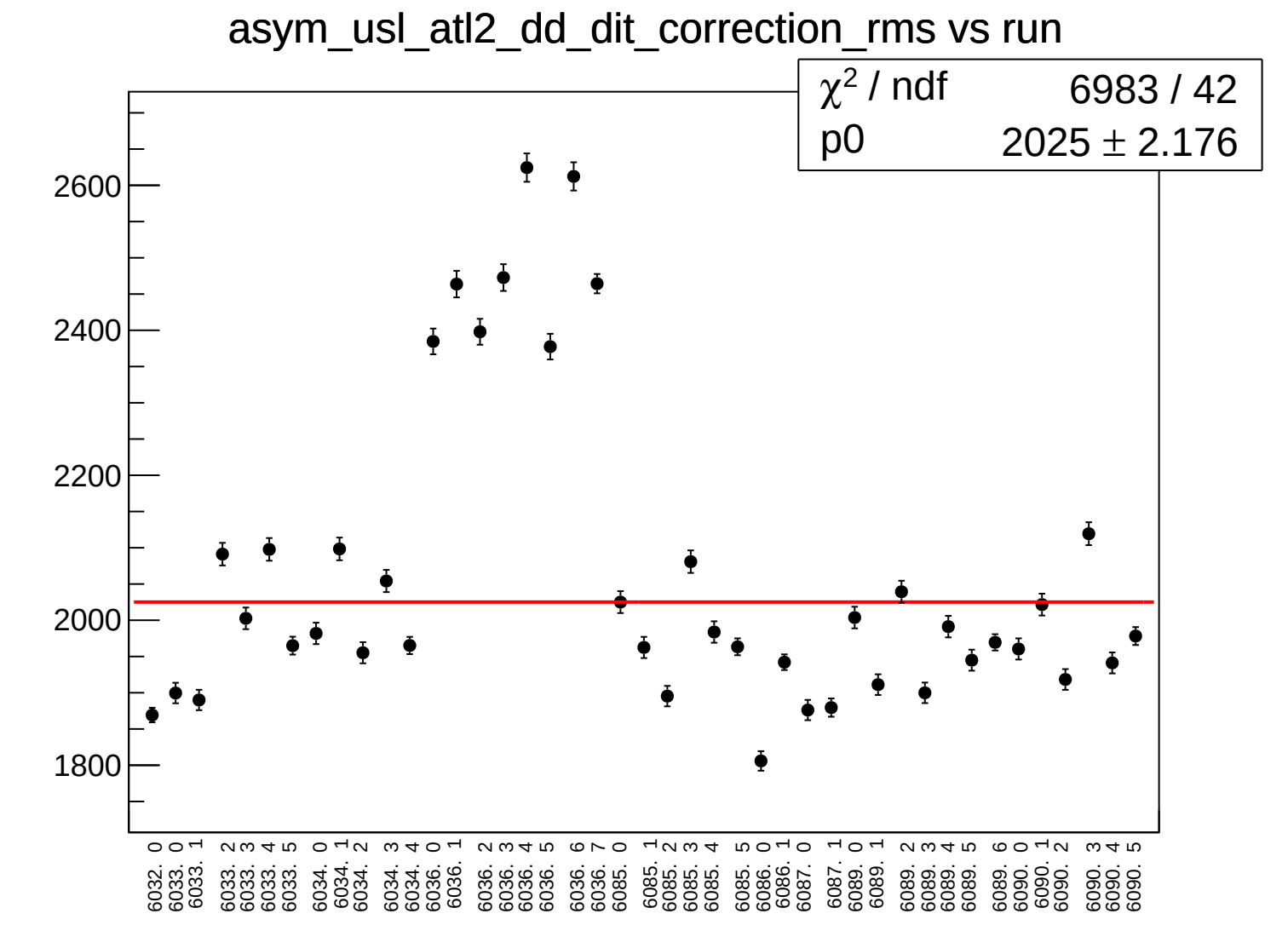

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.63 / 42
p0 −82.25 ± 3043
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03732
Std Dev 0.9832
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

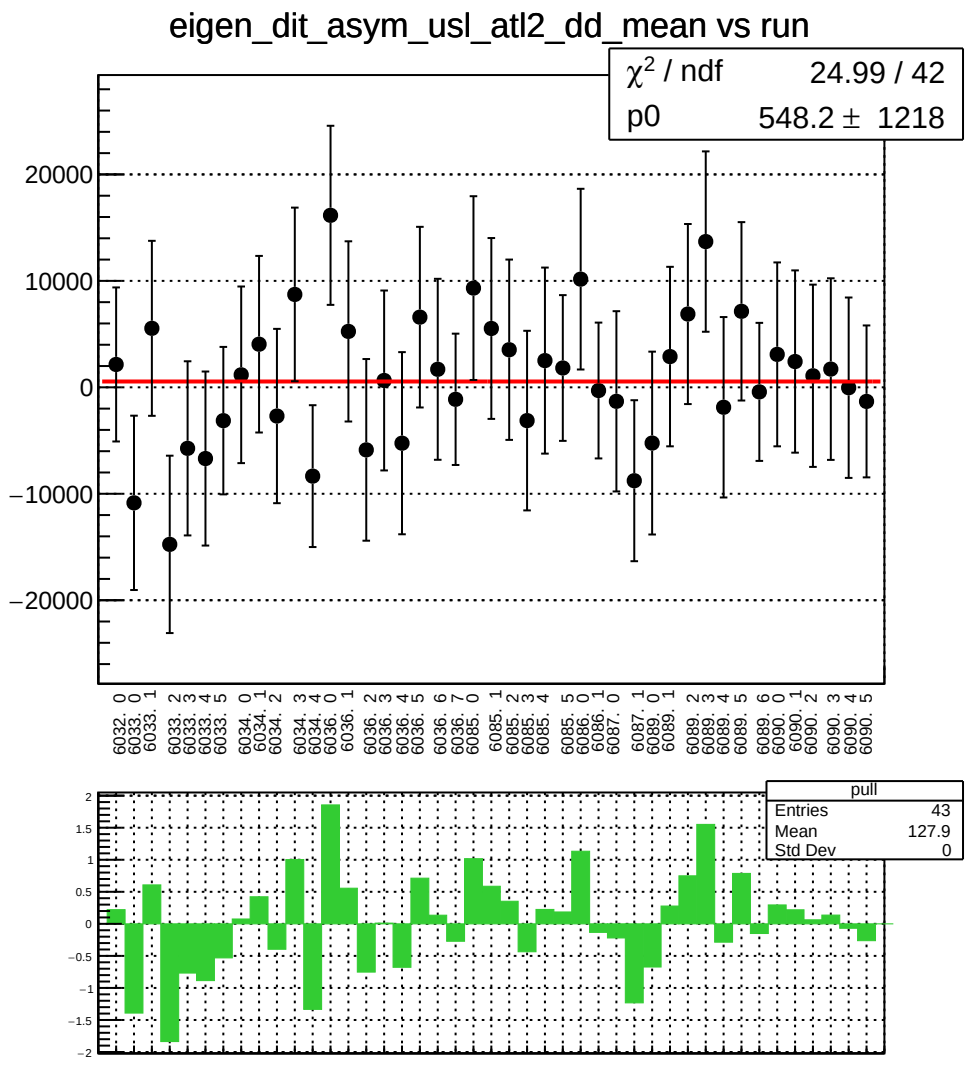

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7188 / 42
p0 2002 ± 2.152
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

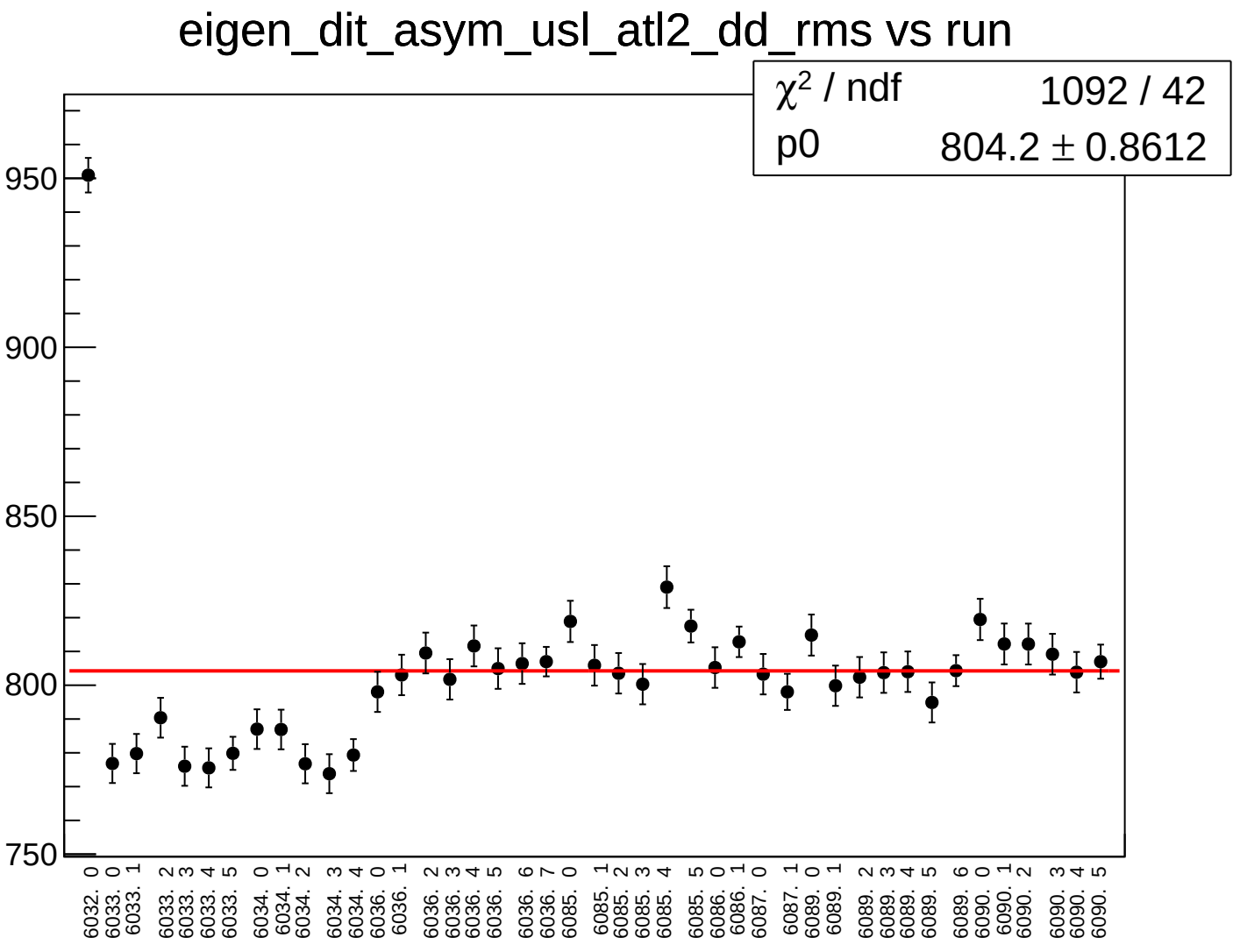

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 24.99 / 42
p0 548.2 ± 1218
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 127.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02019
Std Dev 0.762
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

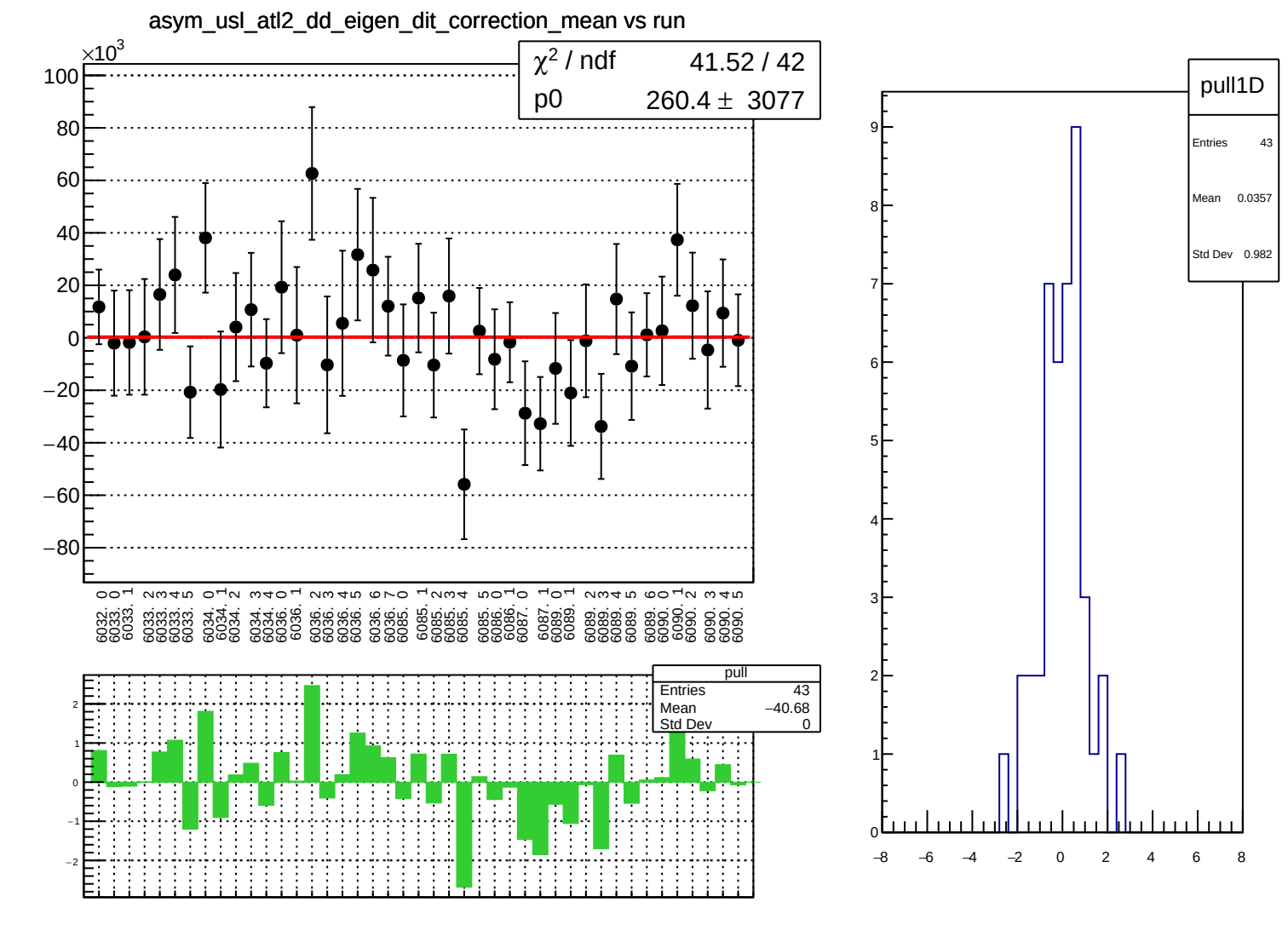

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1092 / 42
p0 804.2 ± 0.8612
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

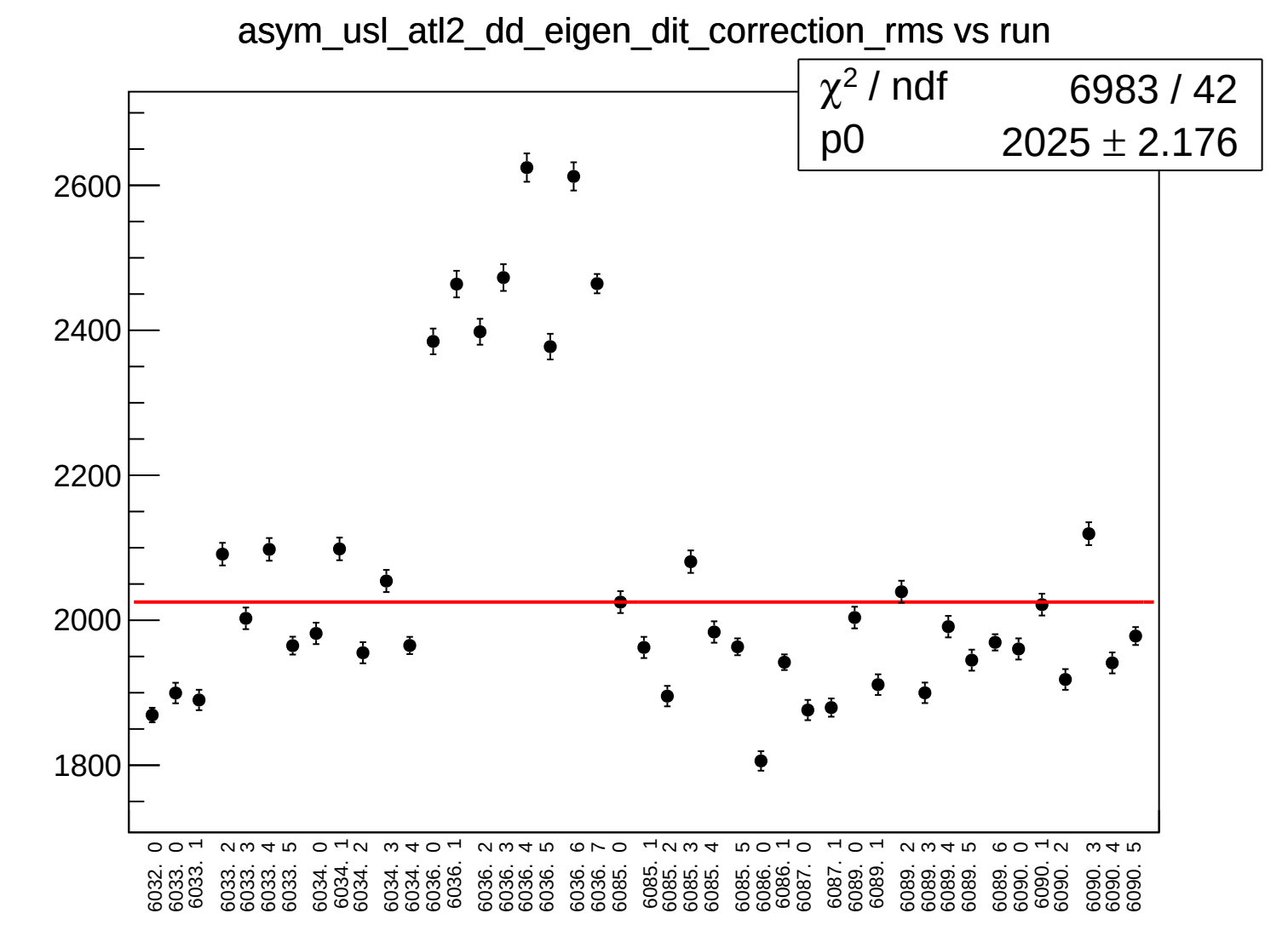

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.52 / 42
p0 260.4 ± 3077
pull
Entries 43
Mean −40.69
Std Dev 0
pull1D
Entries 43
Mean 0.0357
Std Dev 0.982

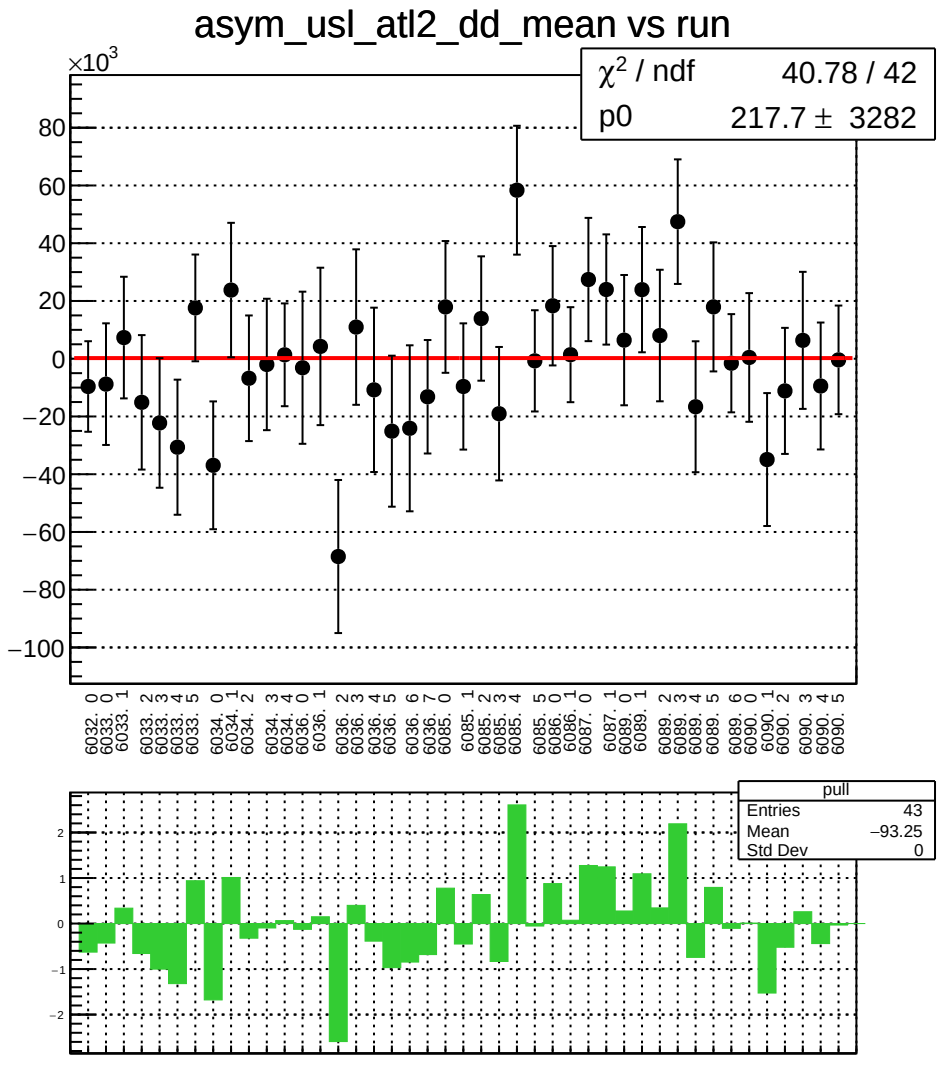

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6983 / 42
p0 2025 ± 2.176
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

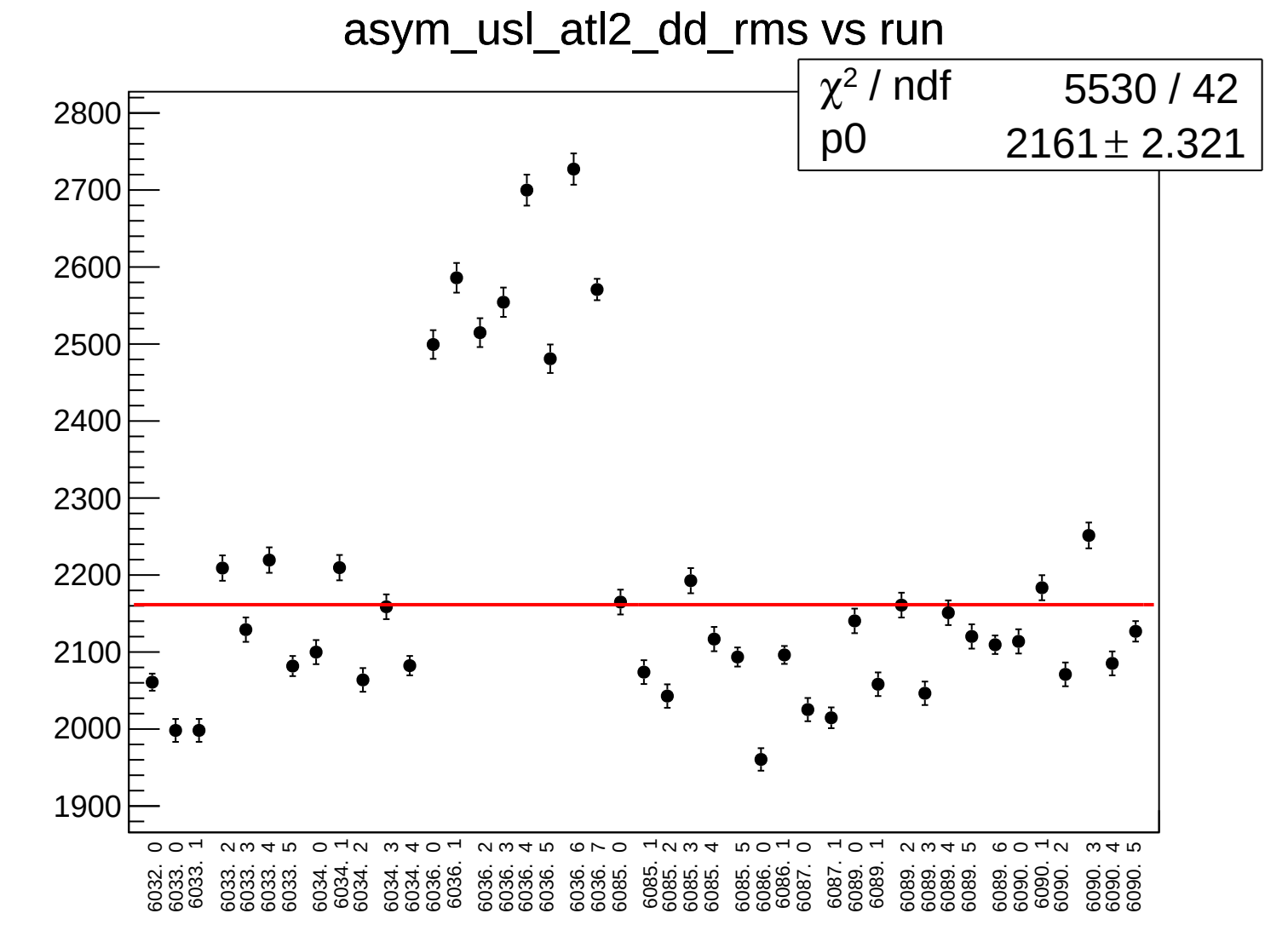

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 24.99 / 42
p0 548.2 ± 1218
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 127.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02019
Std Dev 0.762
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

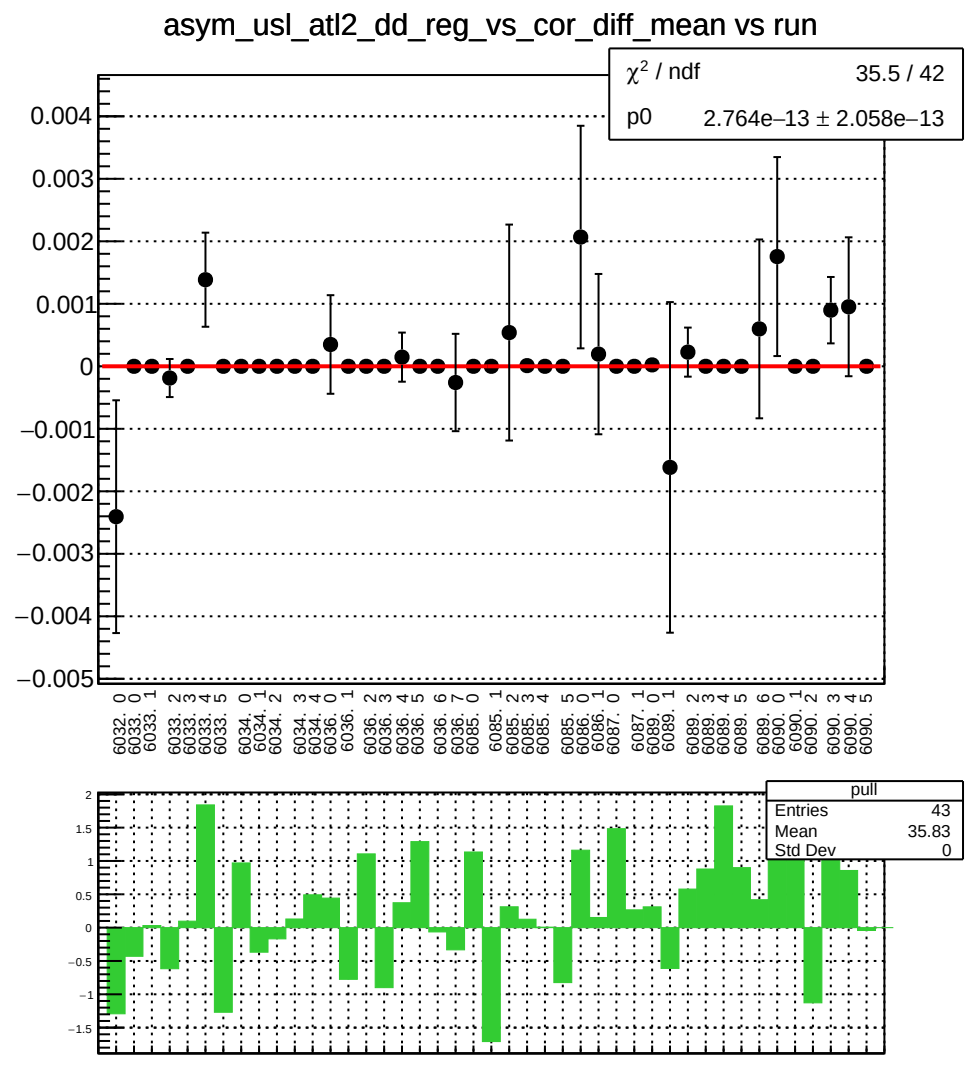

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1092 / 42
p0 804.2 ± 0.8612
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

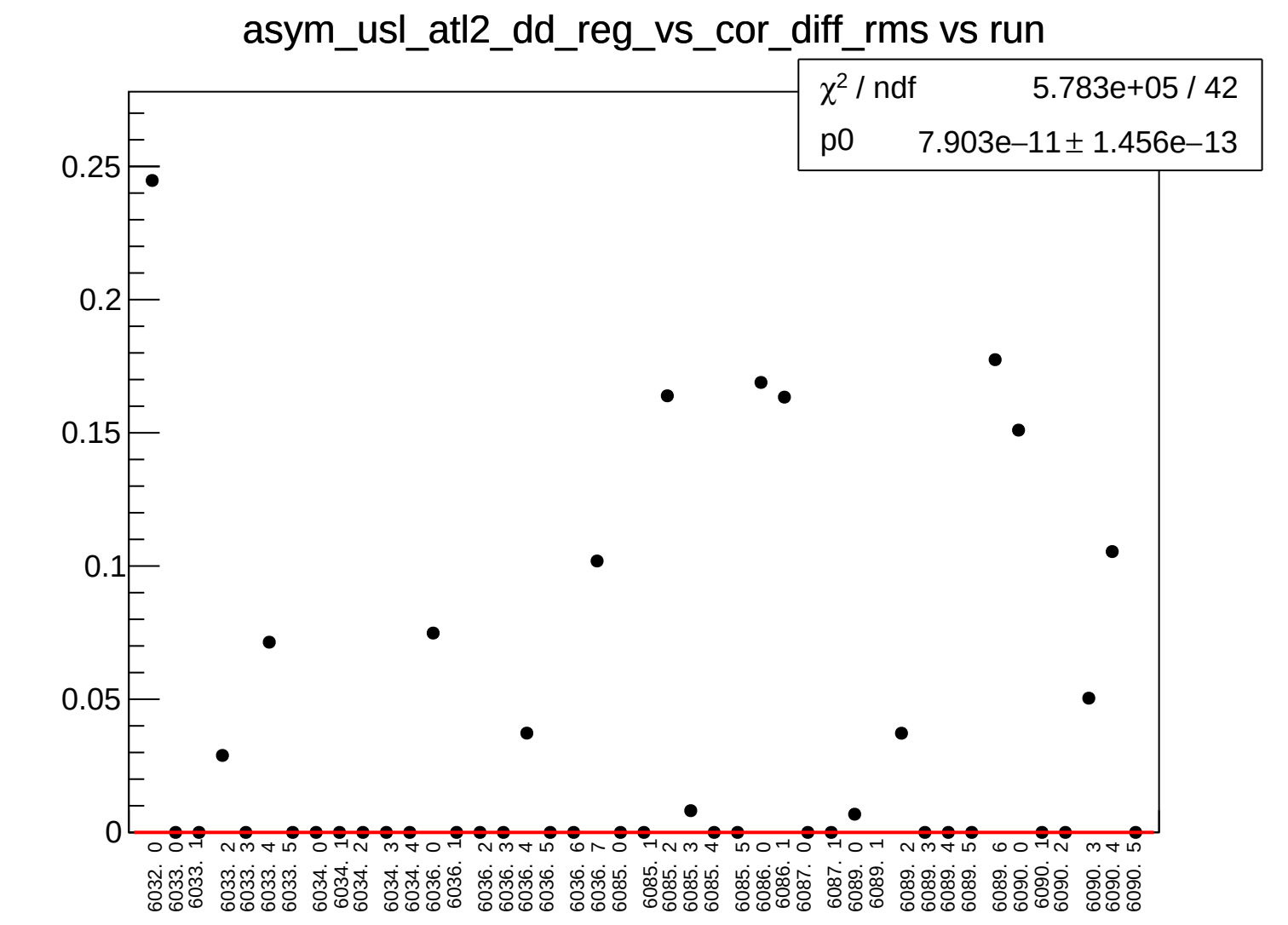

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.52 / 42
p0 260.4 ± 3077
pull
Entries 43
Mean −40.68
Std Dev 0
pull1D
Entries 43
Mean 0.0357
Std Dev 0.982

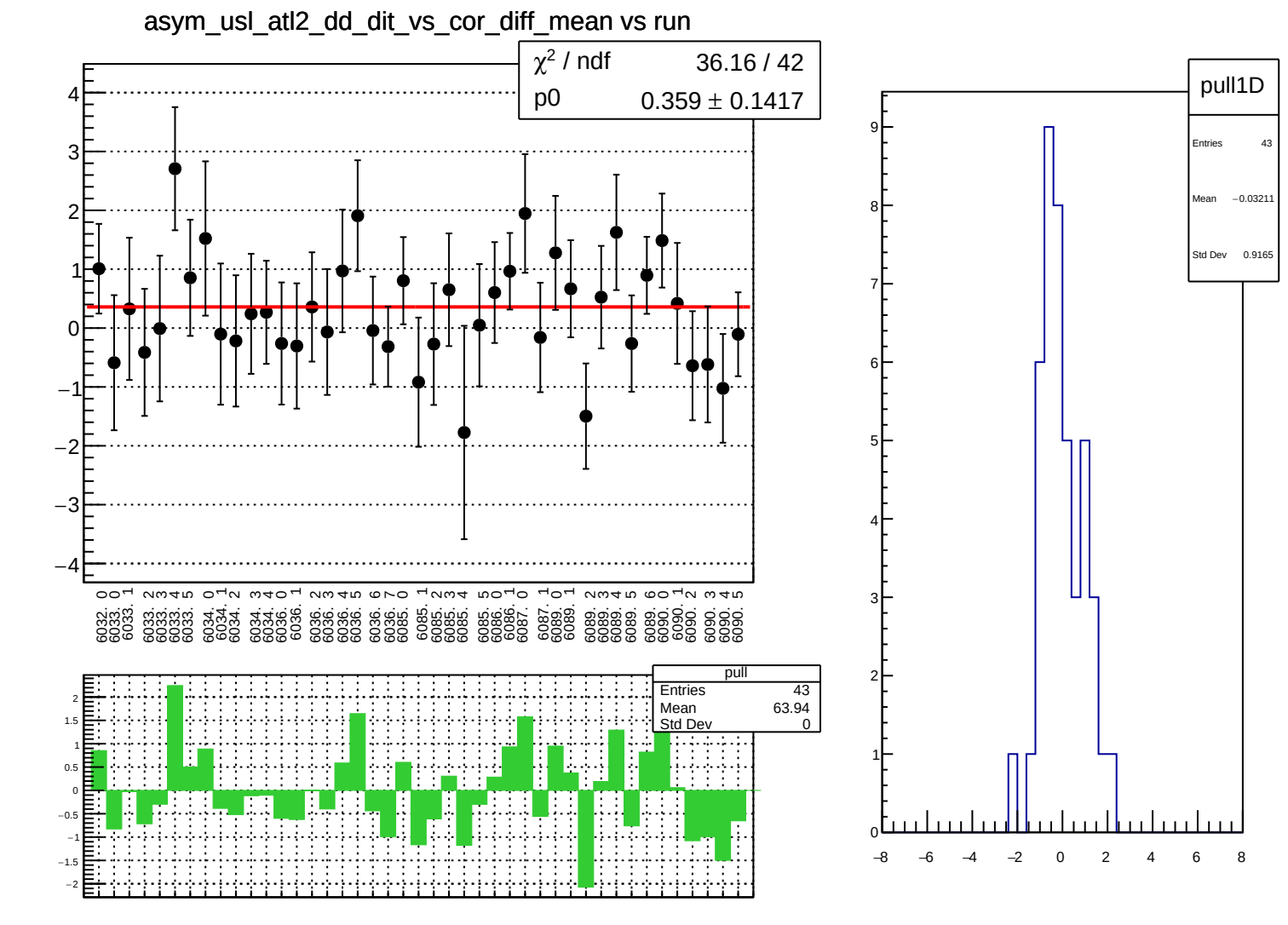

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6983 / 42
p0 2025 ± 2.176
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

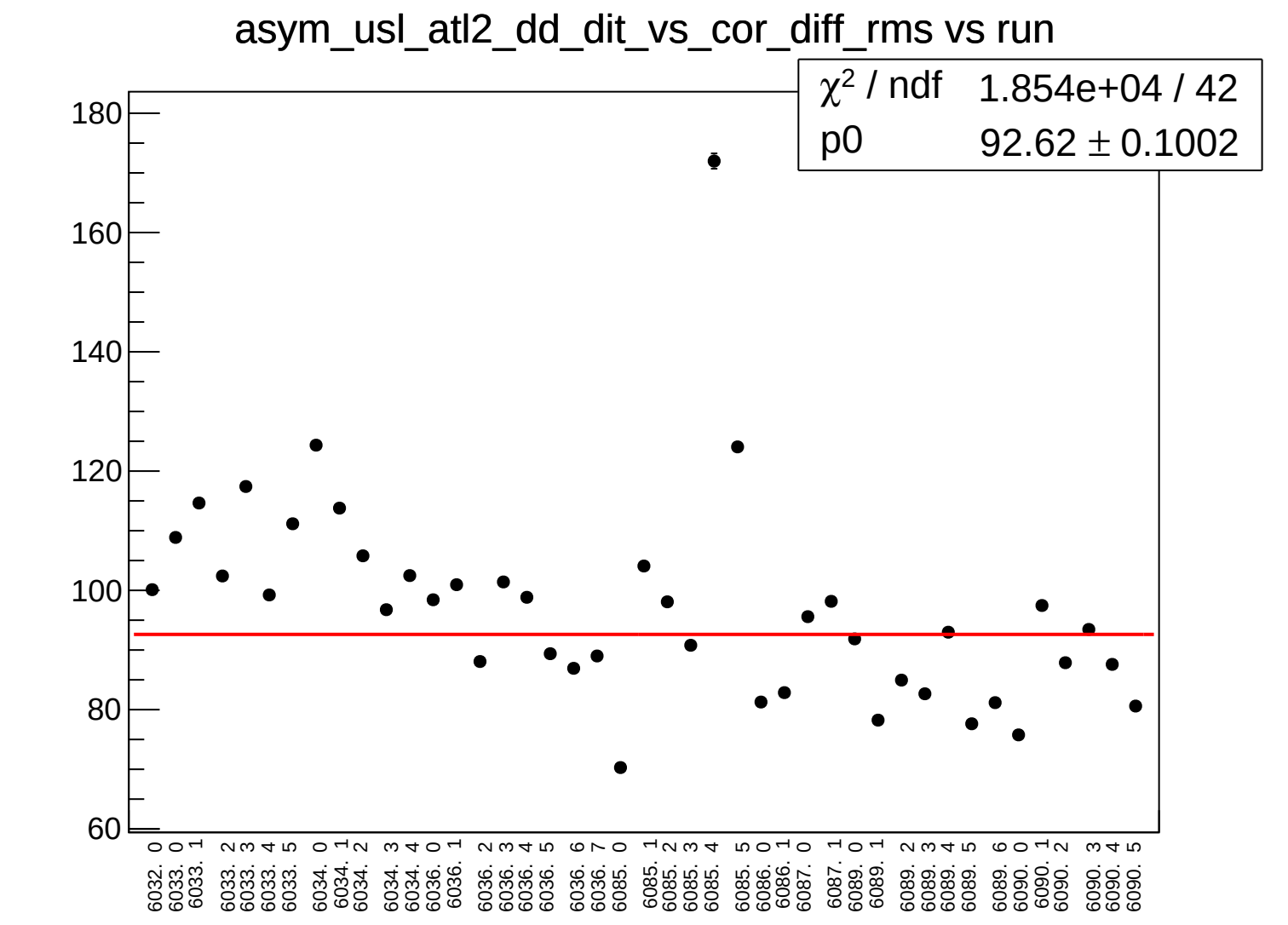

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 40.78 / 42
p0 217.7 ± 3282
80
60
40
20
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −93.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0252
Std Dev 0.9735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

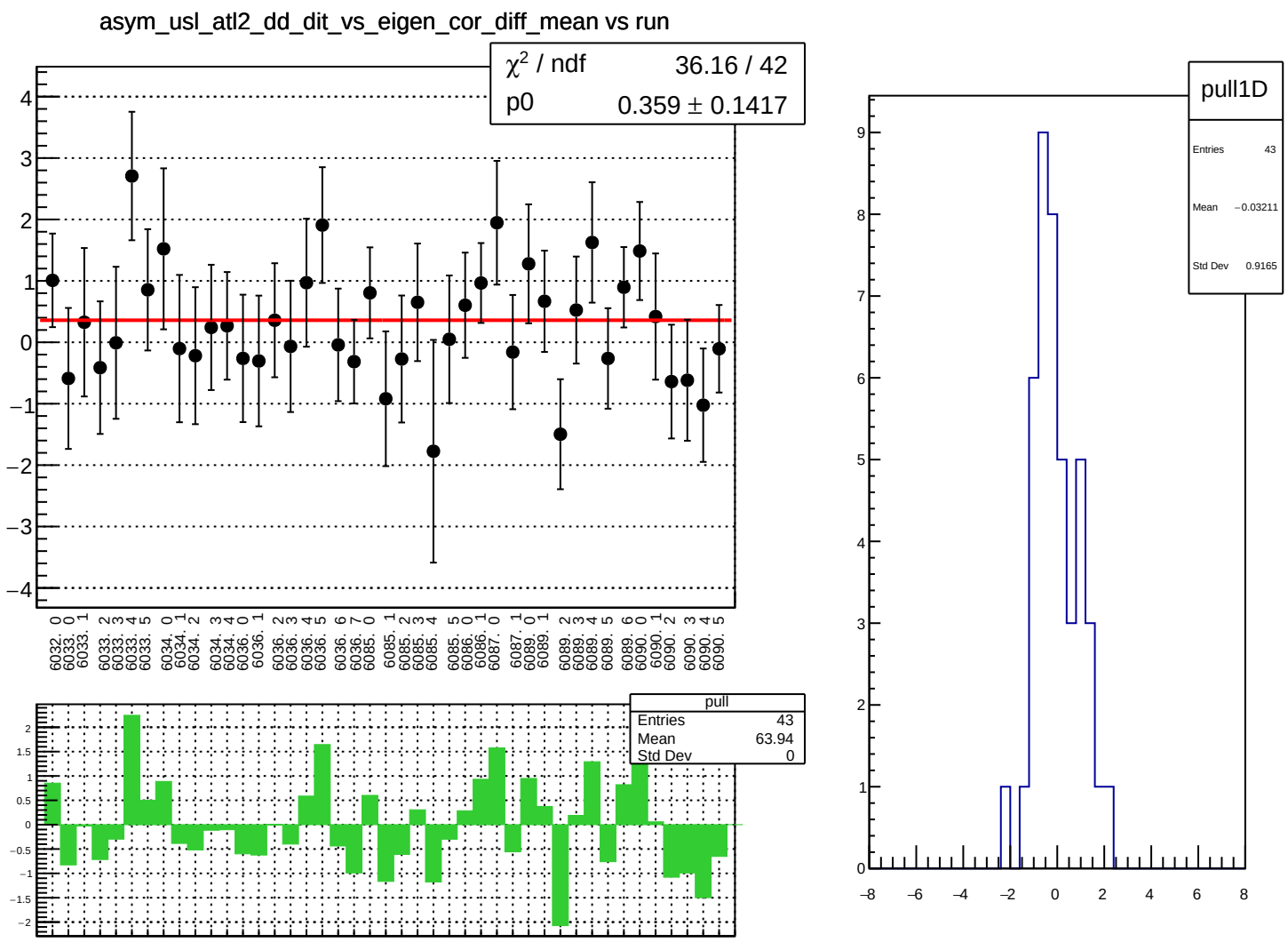

asym_usl_atl2_dd_rms vs run
χ² / ndf 5530 / 42
p0 2161 ± 2.321
2800
2700
2600
2500
2400
2300
2200
2100
2000
1900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

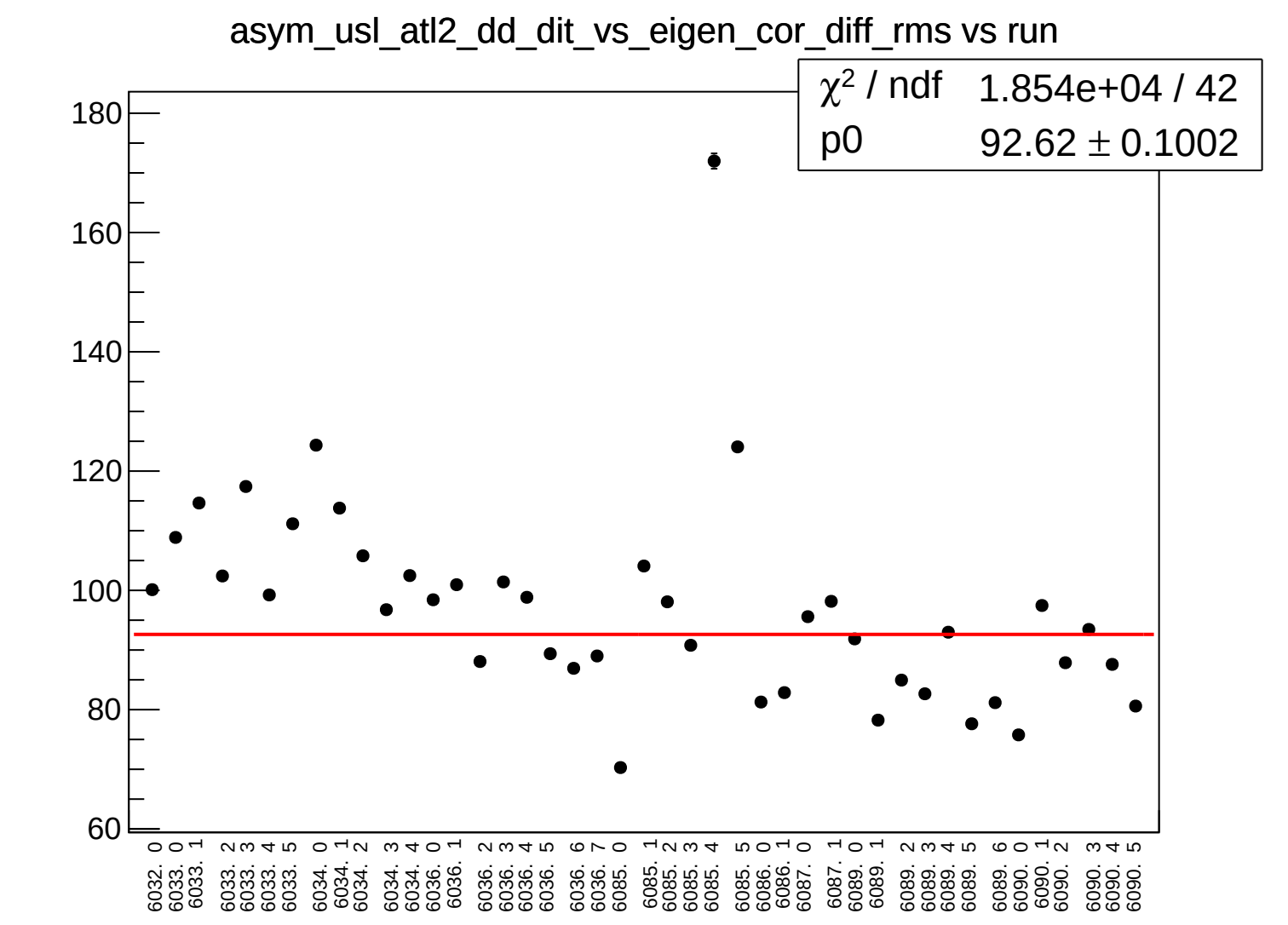

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.5 / 42
p0 2.764e−13 ± 2.058e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 35.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2484
Std Dev 0.874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

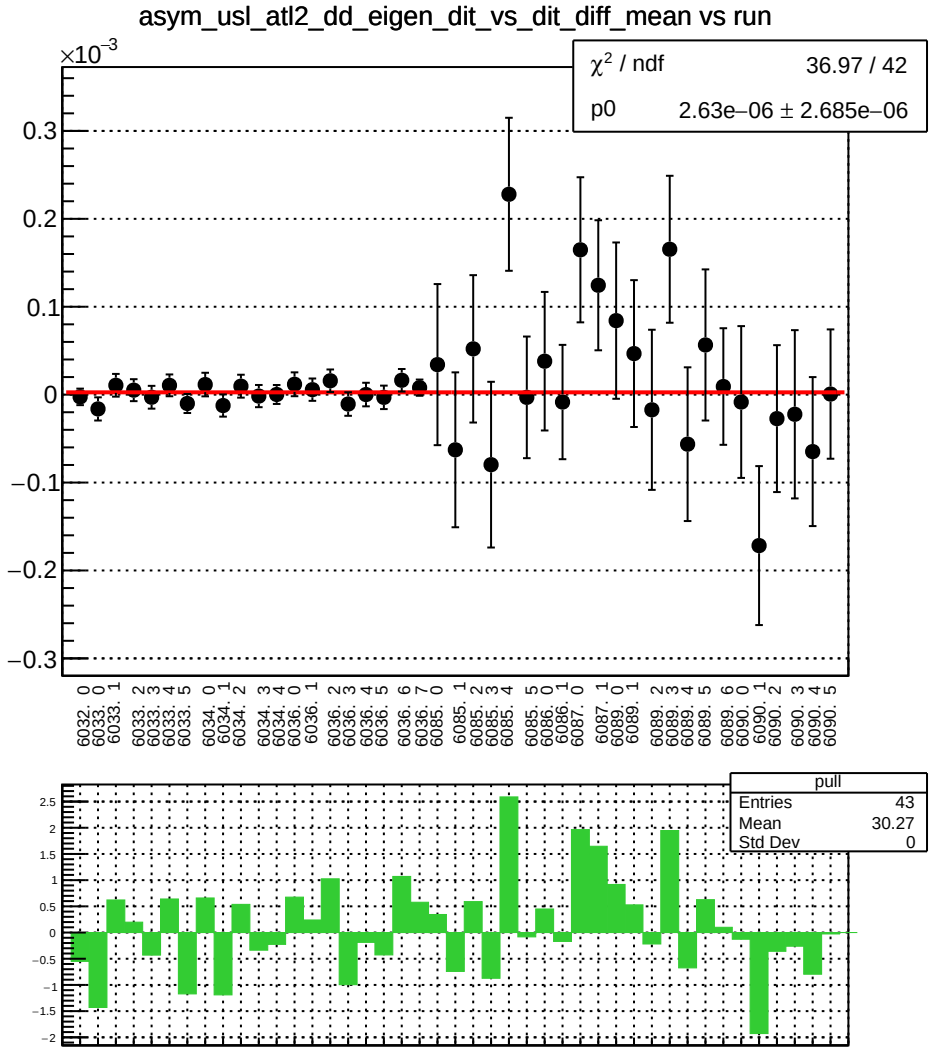

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.783e+05 / 42
p0 7.903e−11 ± 1.456e−13
0.25
0.2
0.15
0.1
0.05
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

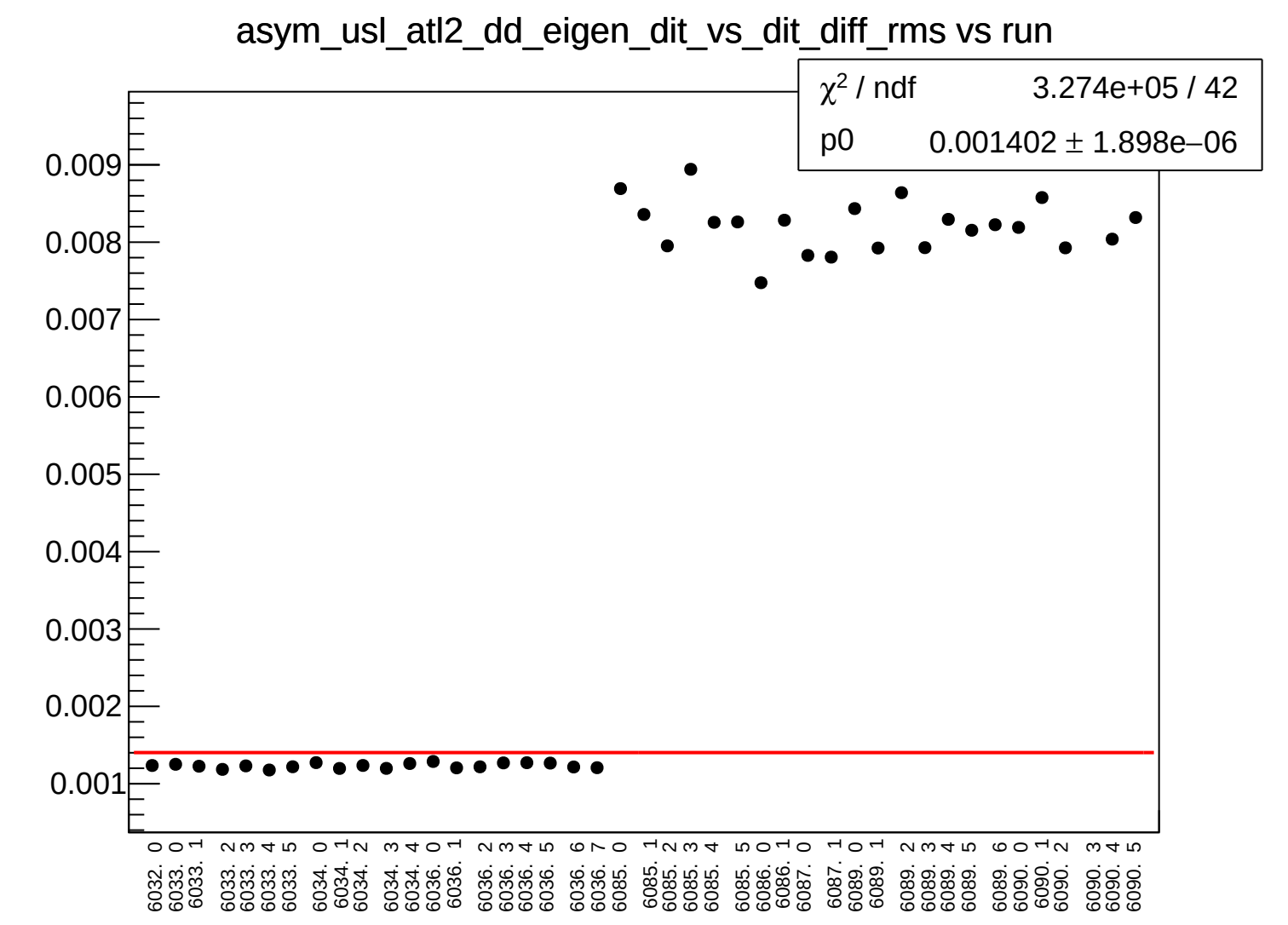

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.16 / 42
p0 0.359 ± 0.1417
pull
Entries 43
Mean 63.94
Std Dev 0
pull1D
Entries 43
Mean −0.03211
Std Dev 0.9165

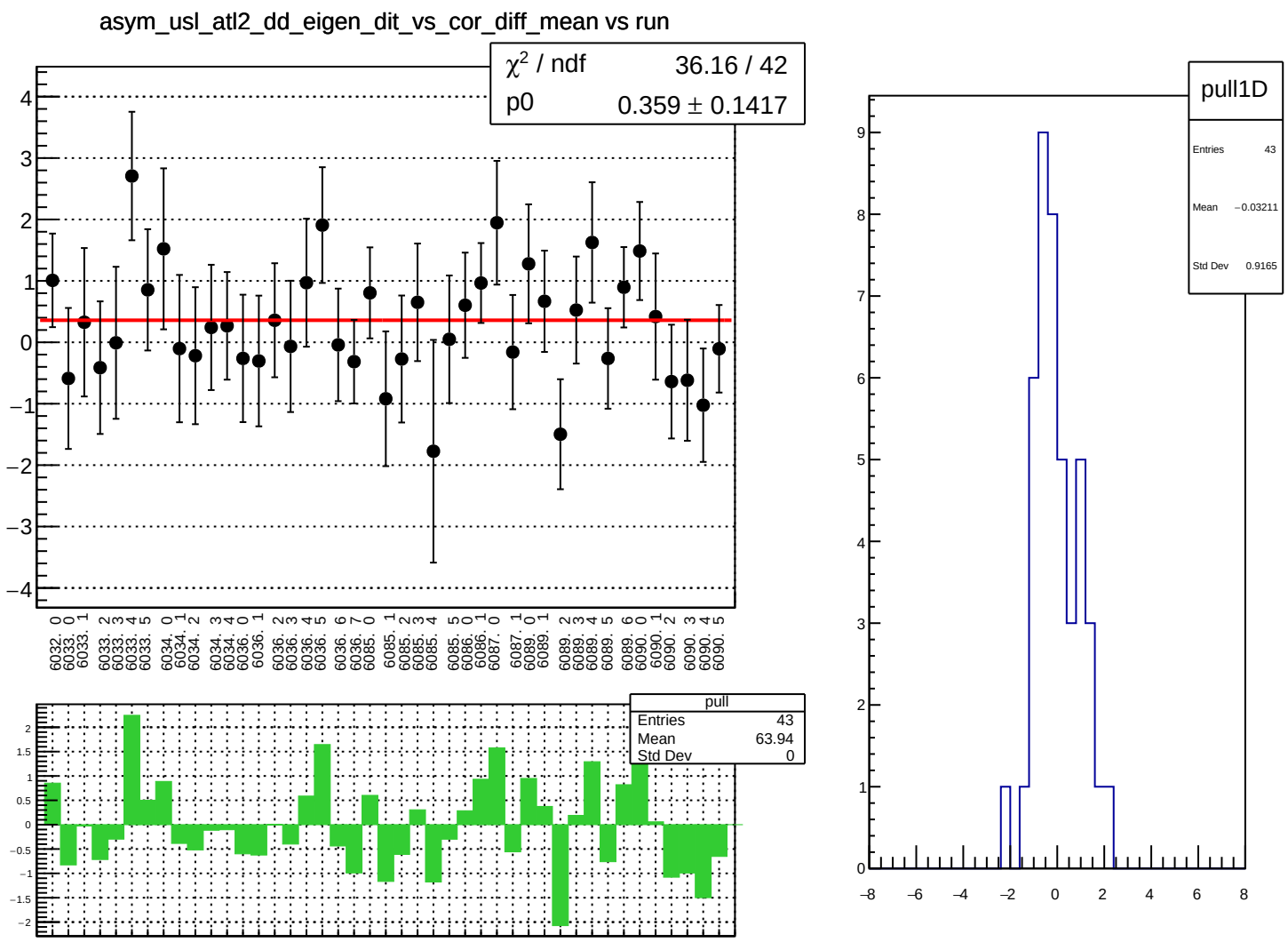

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.854e+04 / 42
p0 92.62 ± 0.1002
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

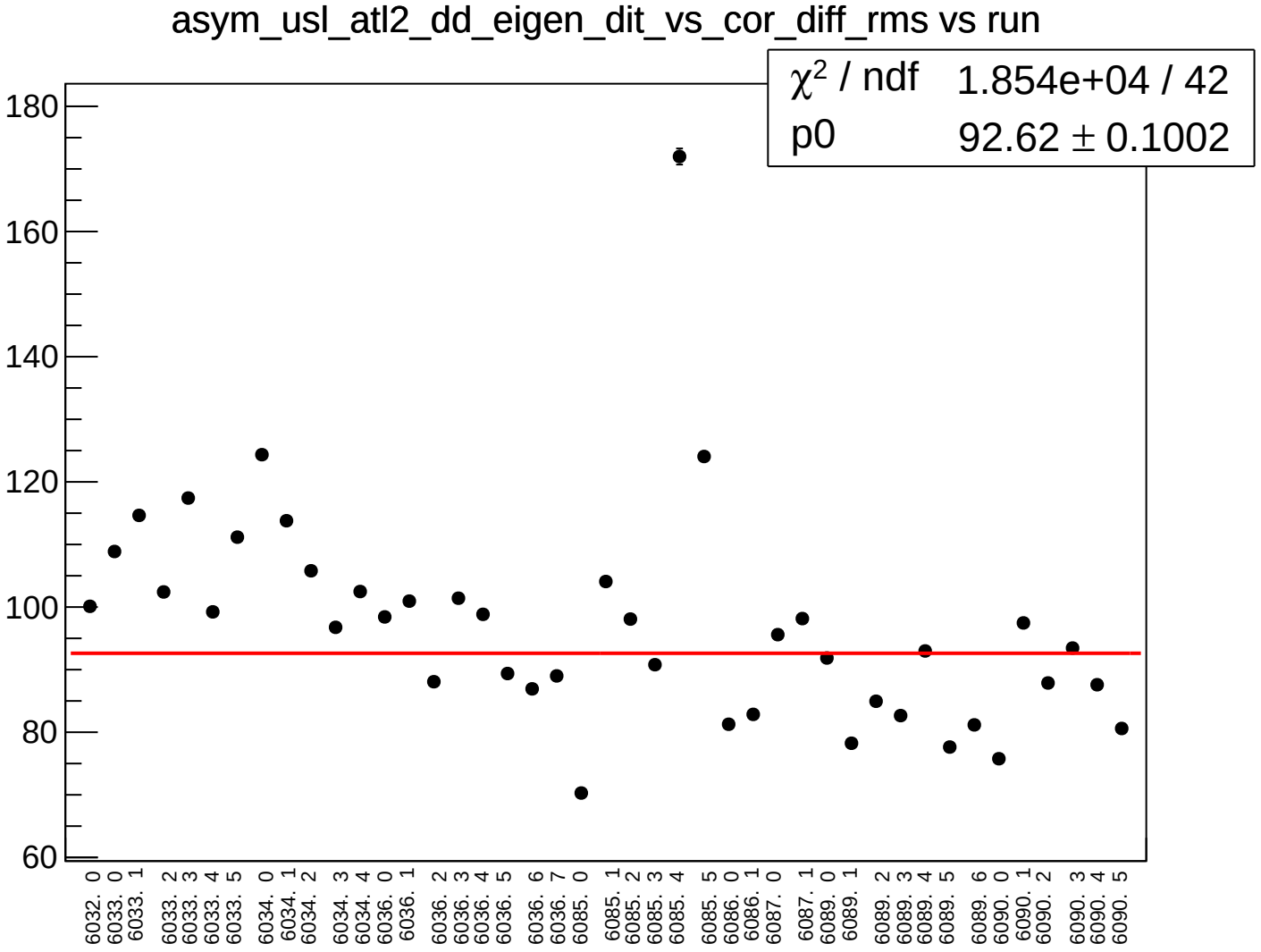

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.16 / 42
p0 0.359 ± 0.1417
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 63.94
Std Dev 0
pull1D
Entries 43
Mean −0.03211
Std Dev 0.9165


asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.854e+04 / 42
p0 92.62 ± 0.1002
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

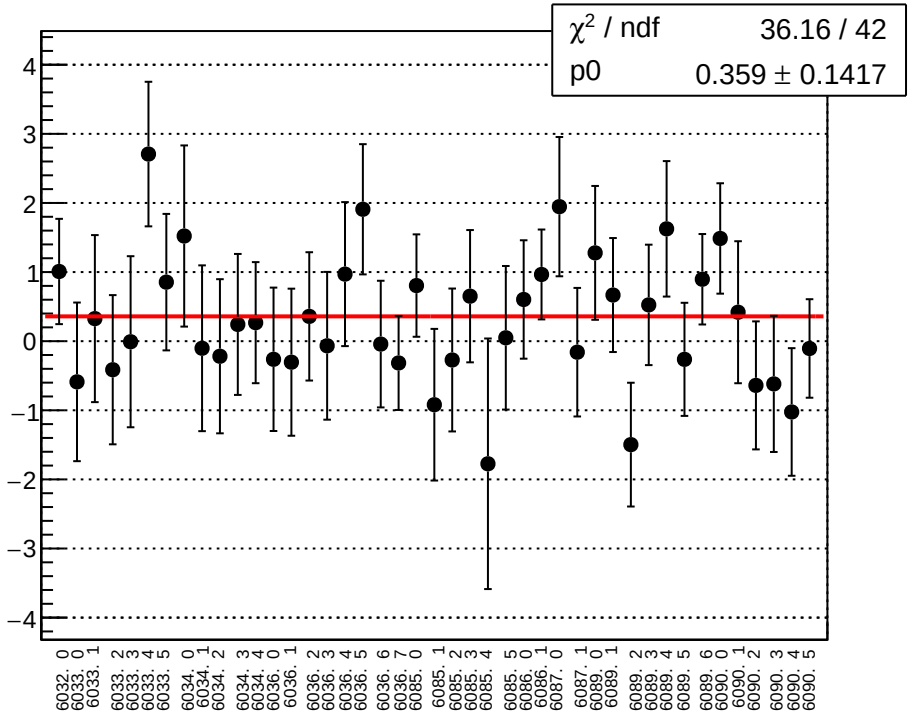

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.97 / 42
p0 2.63e−06 ± 2.685e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 30.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1105
Std Dev 0.9206
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

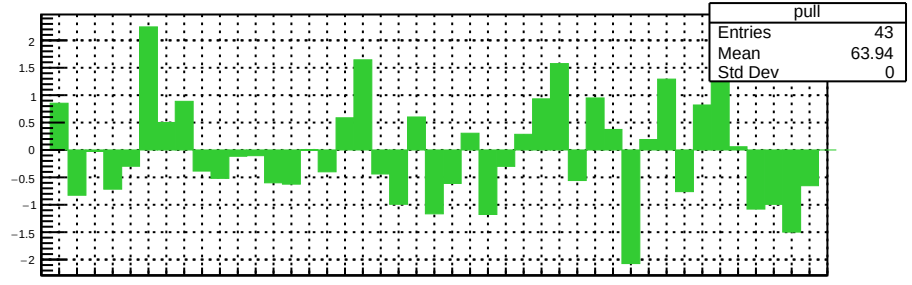

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.274e+05 / 42
p0 0.001402 ± 1.898e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

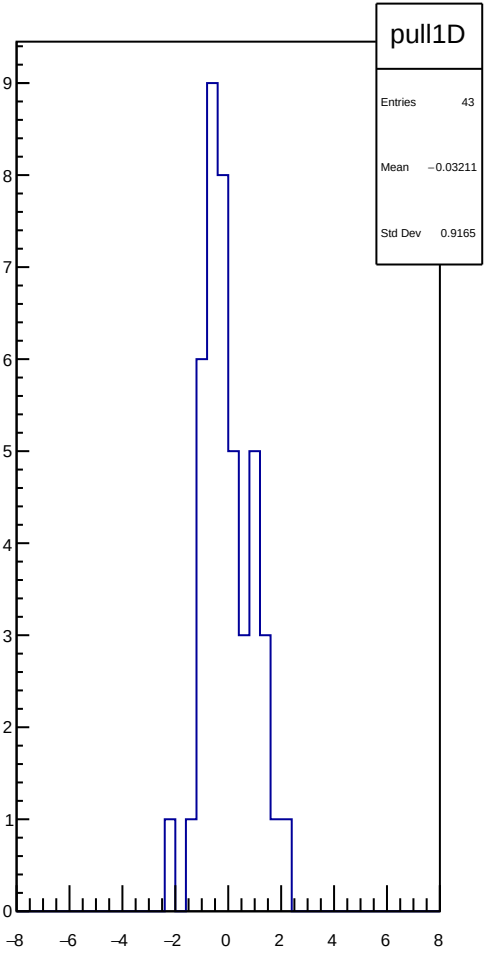

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.16 / 42
p0 0.359 ± 0.1417
pull
Entries 43
Mean 63.94
Std Dev 0
pull1D
Entries 43
Mean −0.03211
Std Dev 0.9165

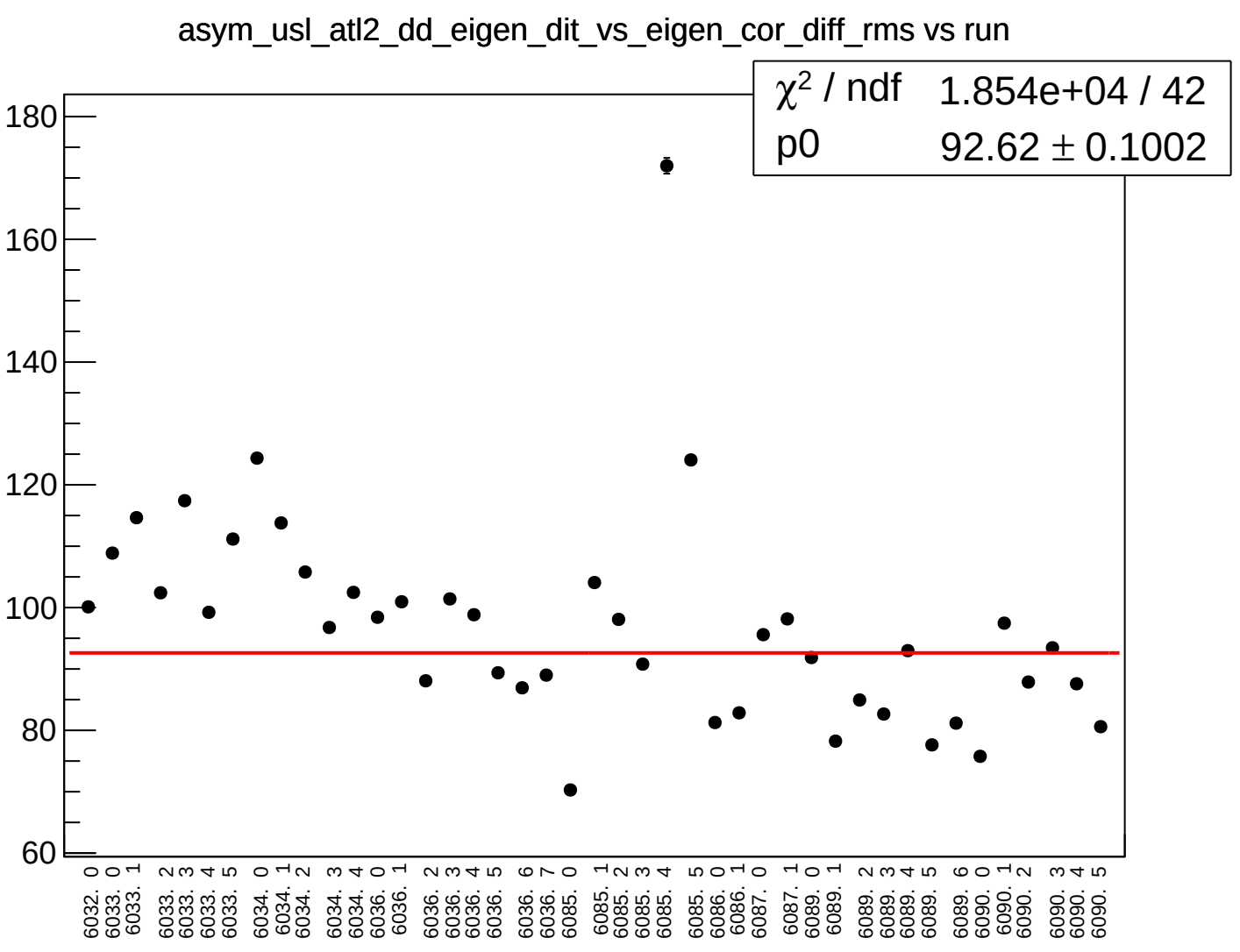

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.854e+04 / 42
p0 92.62 ± 0.1002
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

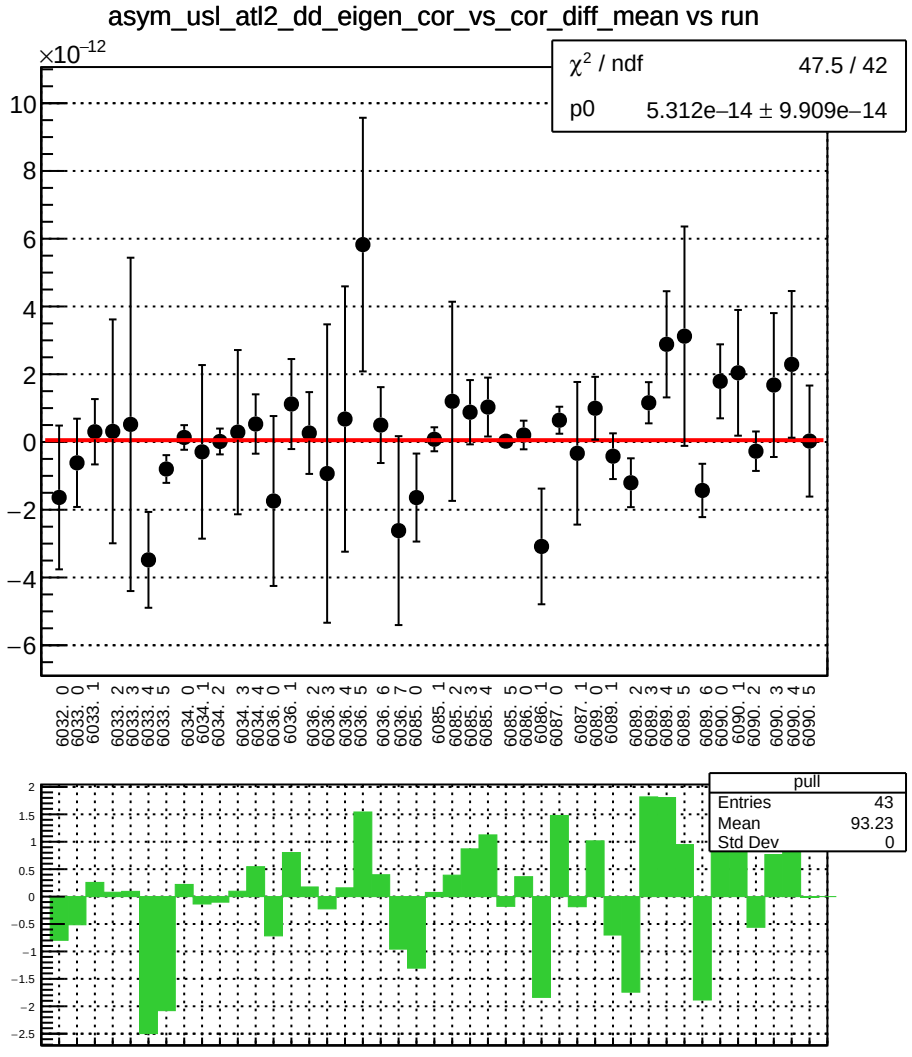
asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

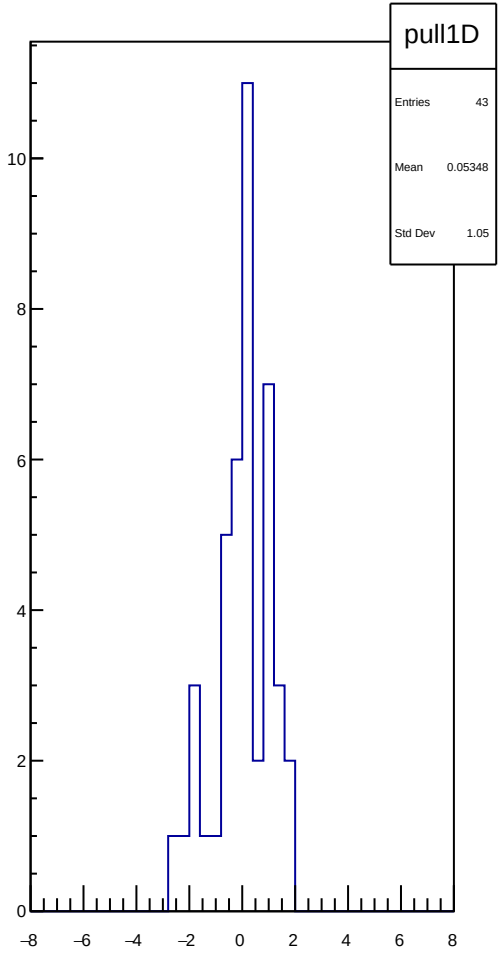


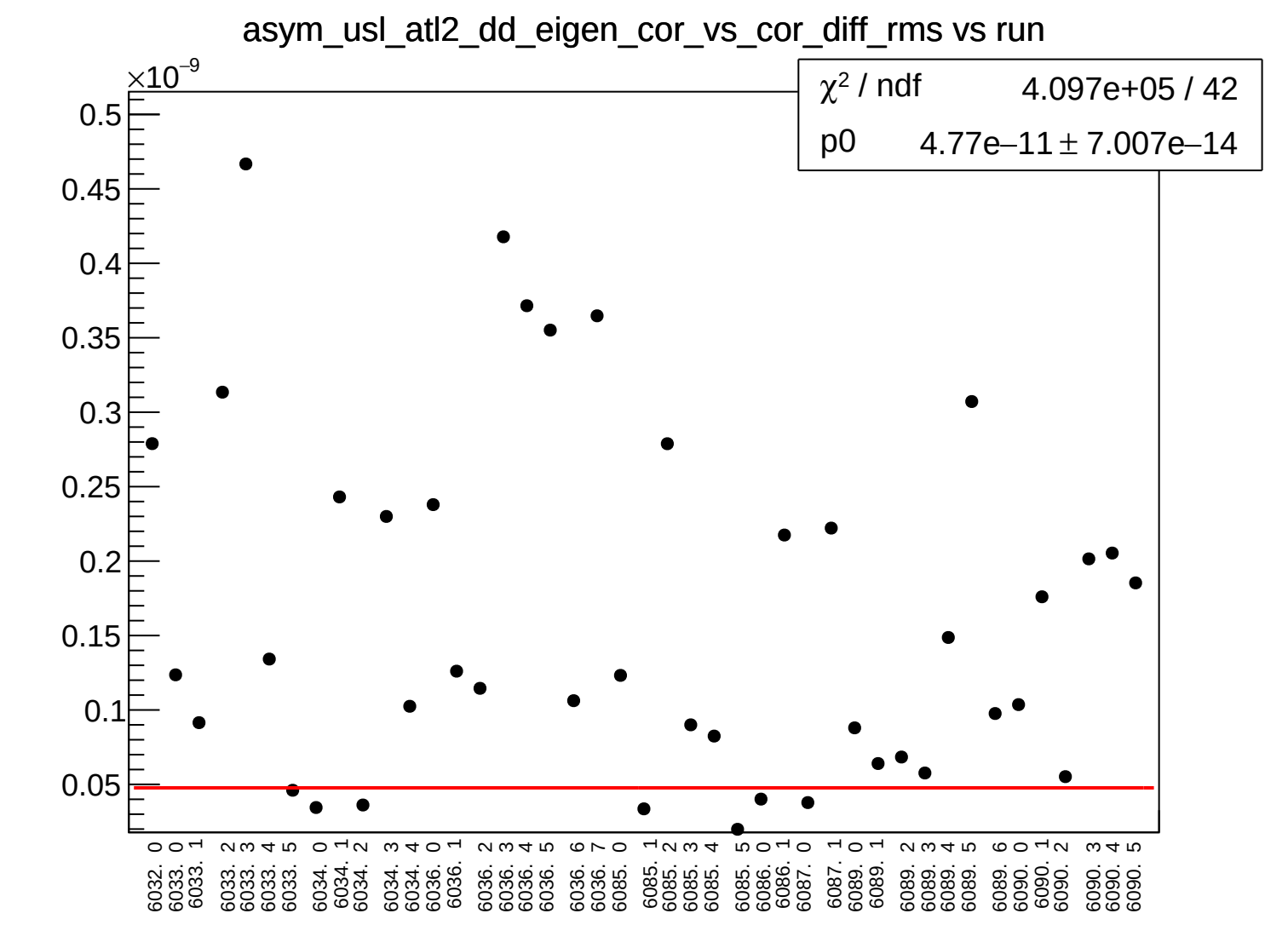


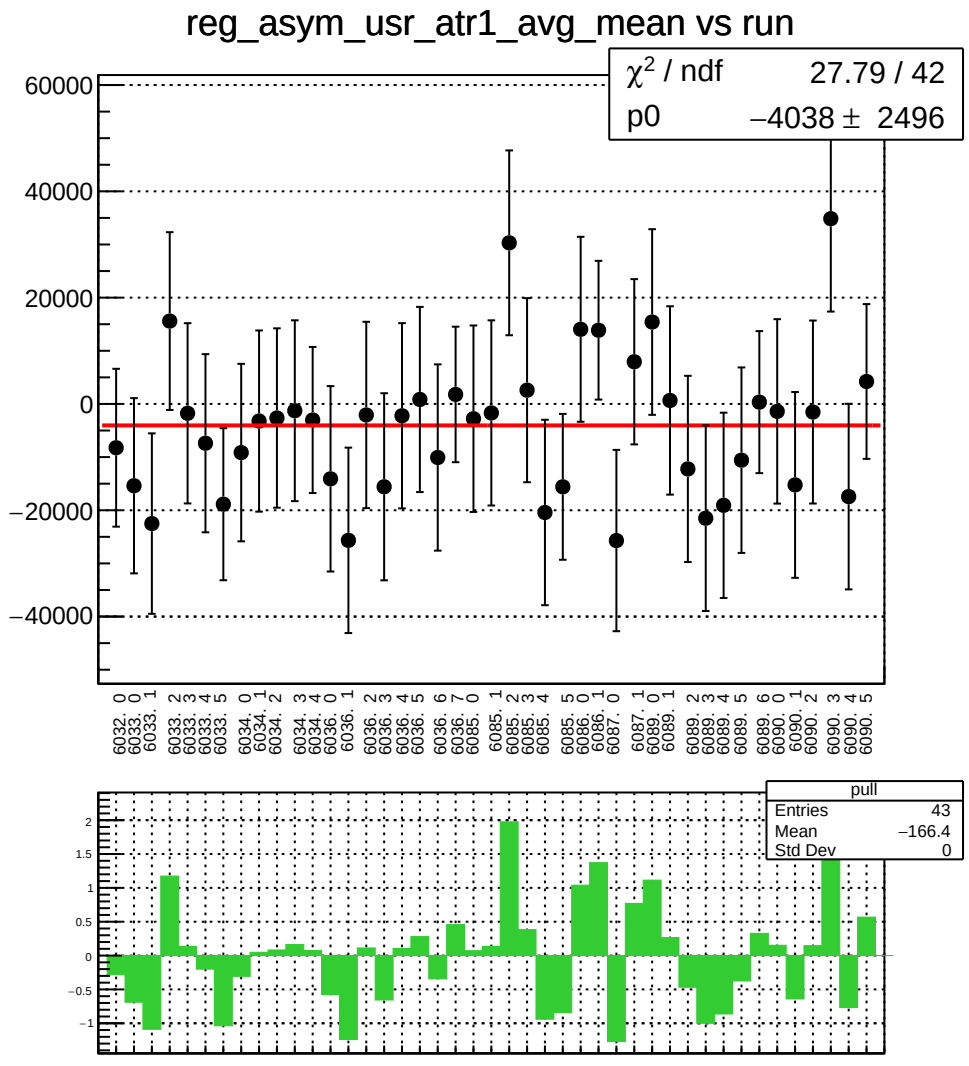


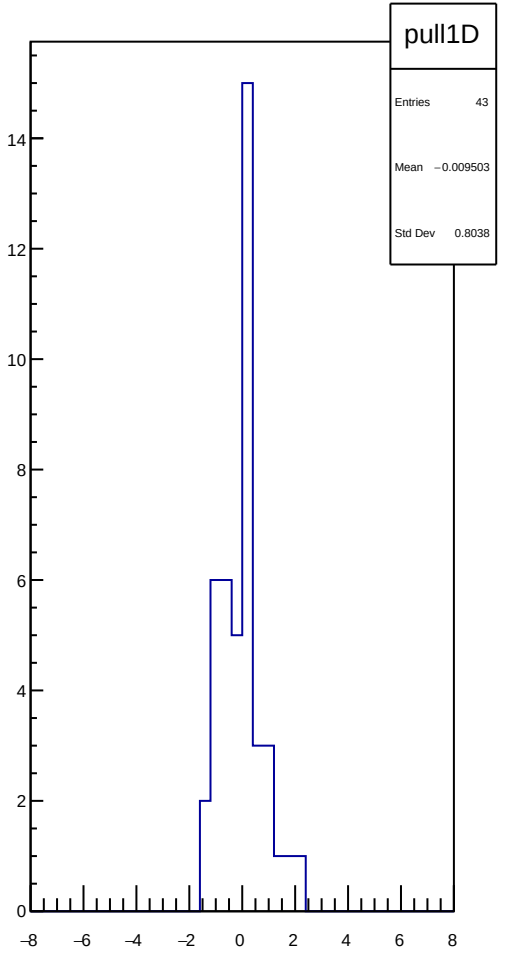

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.854e+04 / 42
p0 92.62 ± 0.1002
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

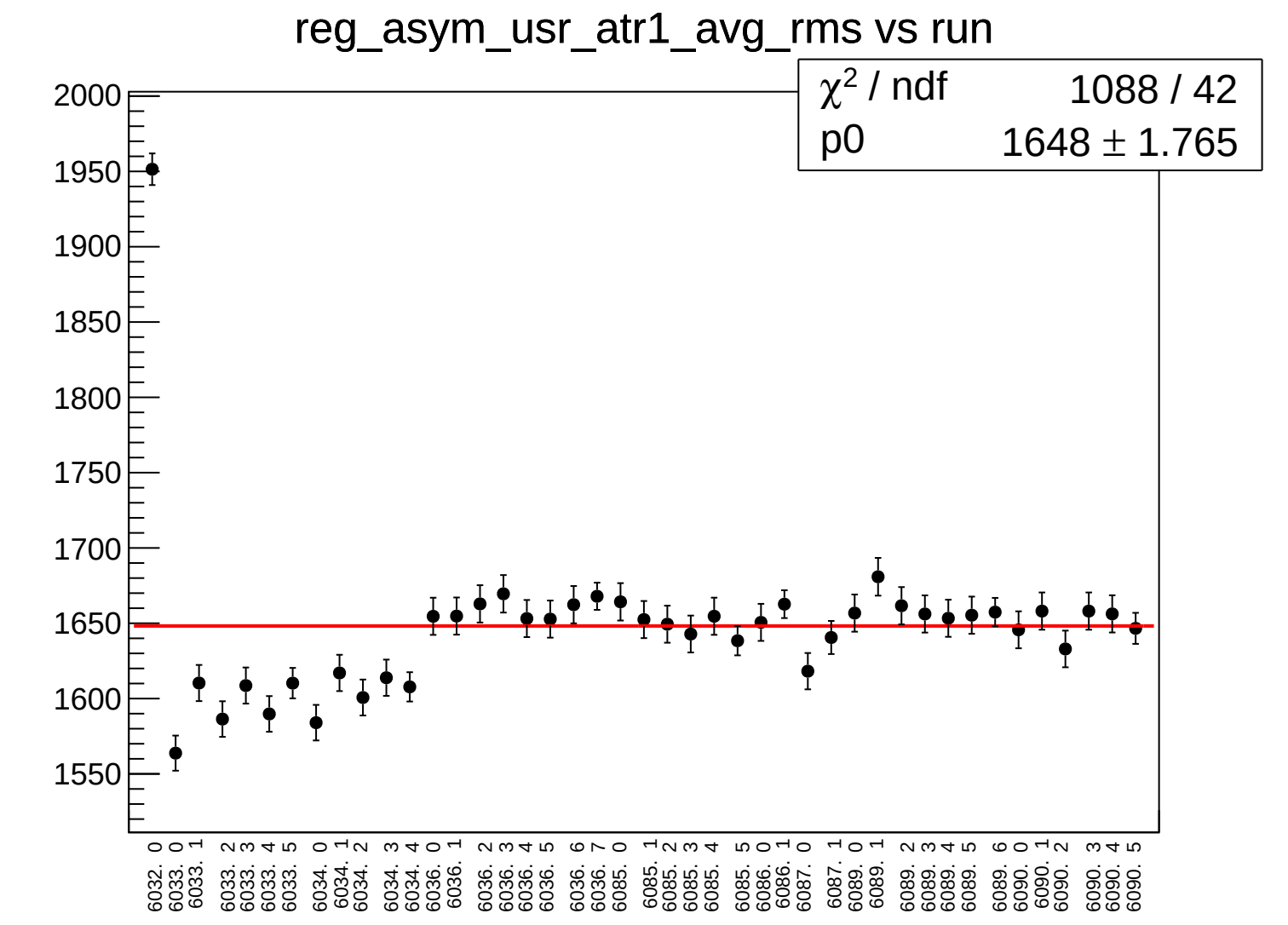

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.5 / 42
p0 5.312e−14 ± 9.909e−14
pull
Entries 43
Mean 93.23
Std Dev 0

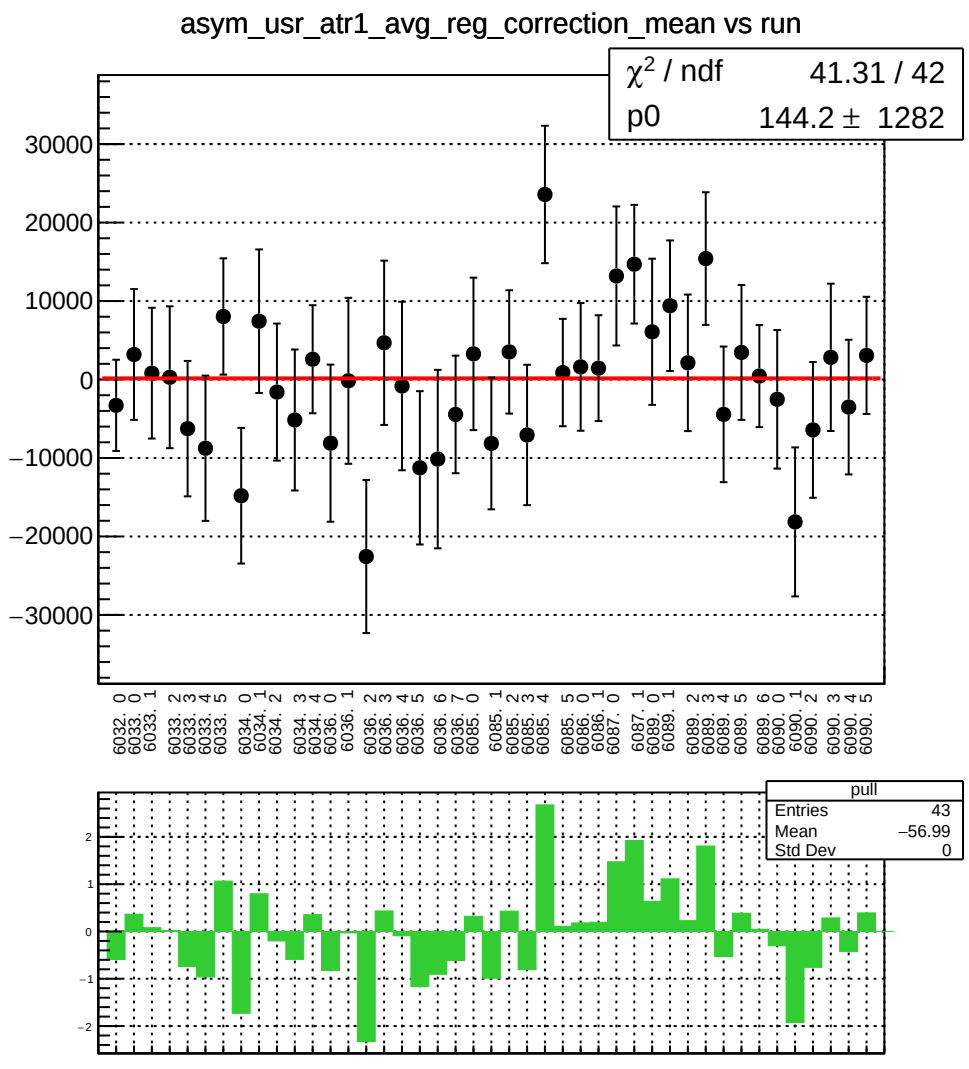

pull1D
Entries 43
Mean 0.05348
Std Dev 1.05

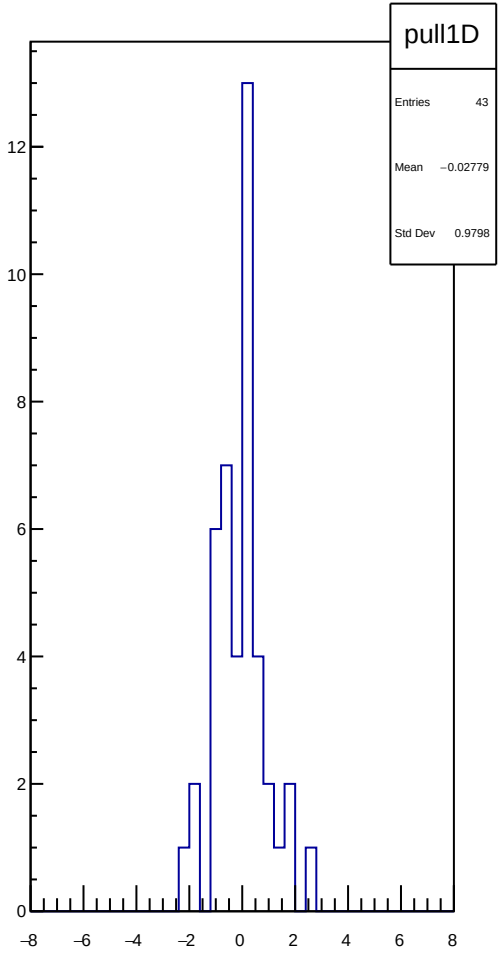

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.097e+05 / 42
p0 4.77e−11 ± 7.007e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

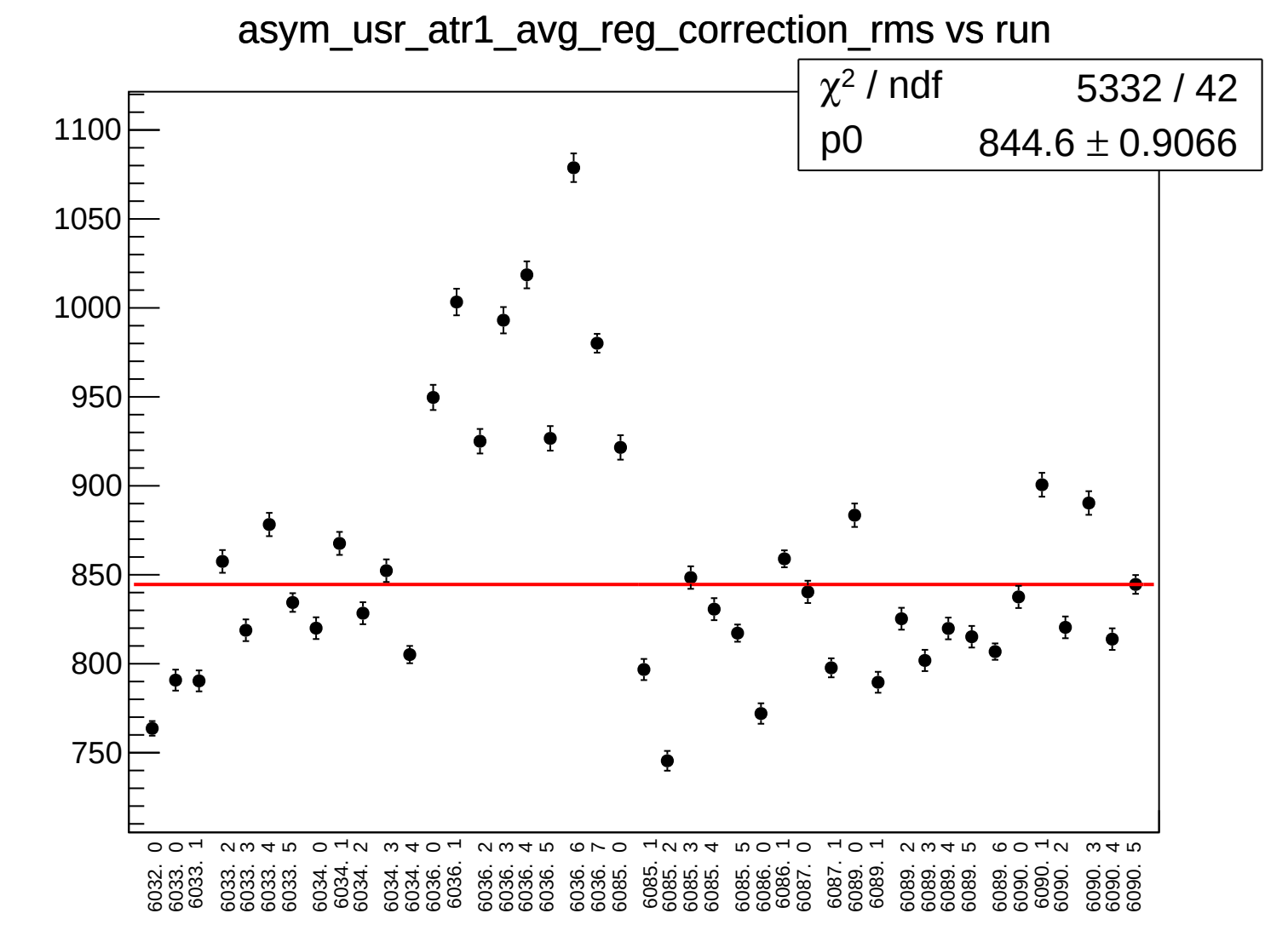

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 27.79 / 42
p0 −4038 ± 2496
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

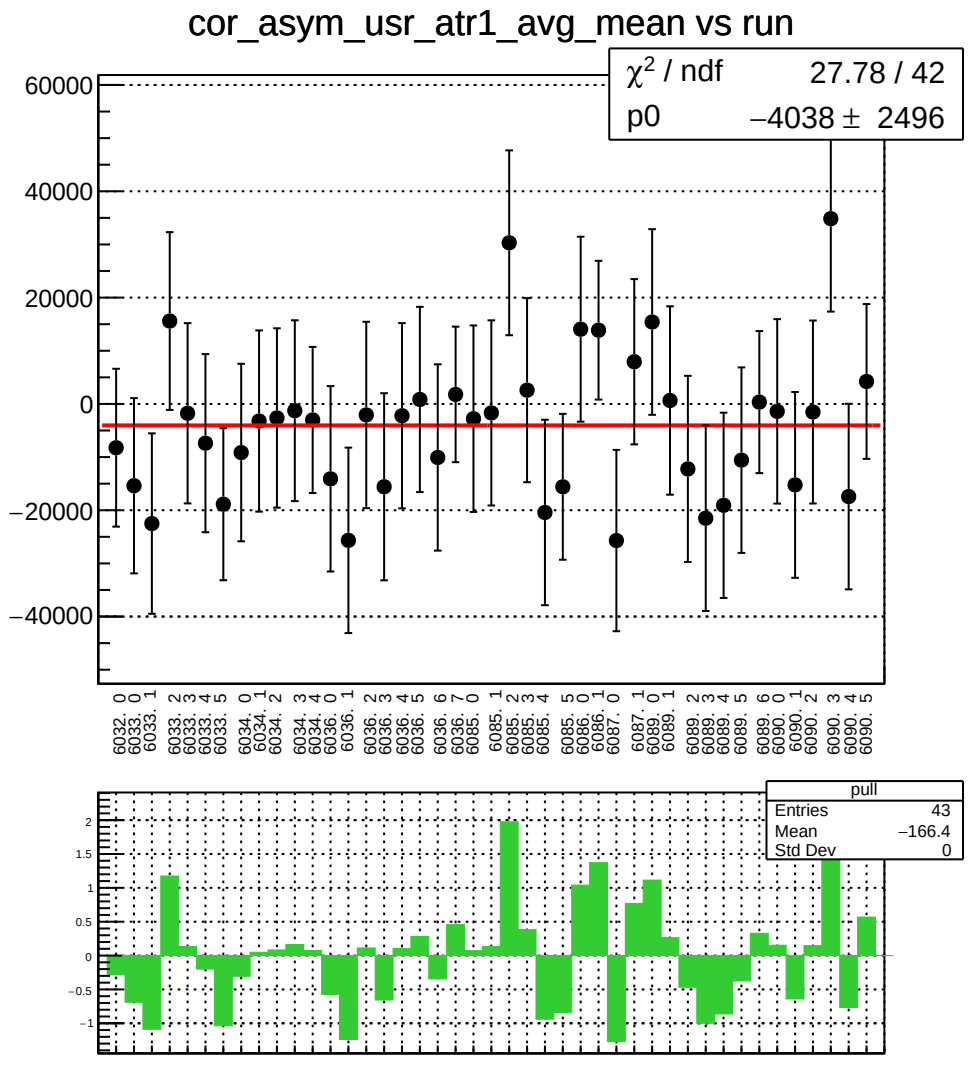

pull1D
Entries 43
Mean −0.009503
Std Dev 0.8038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

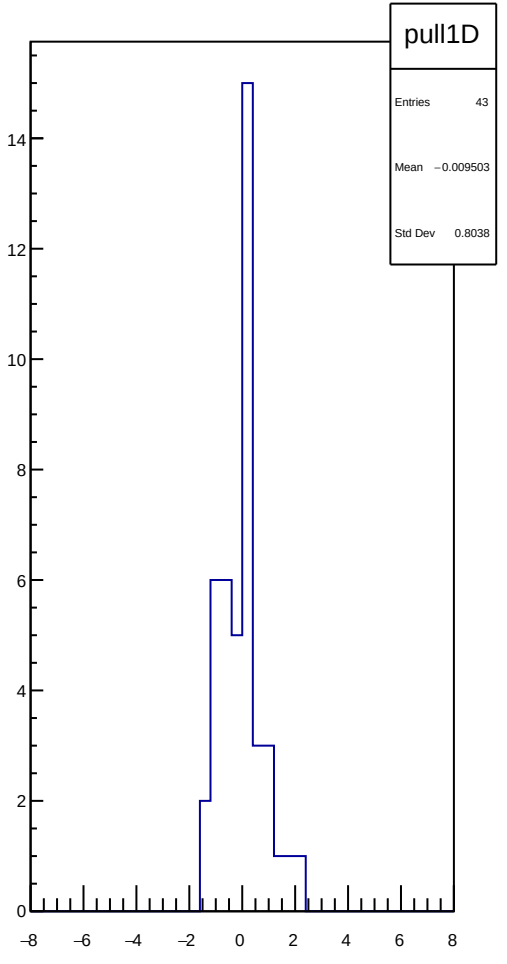

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 1088 / 42
p0 1648 ± 1.765
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

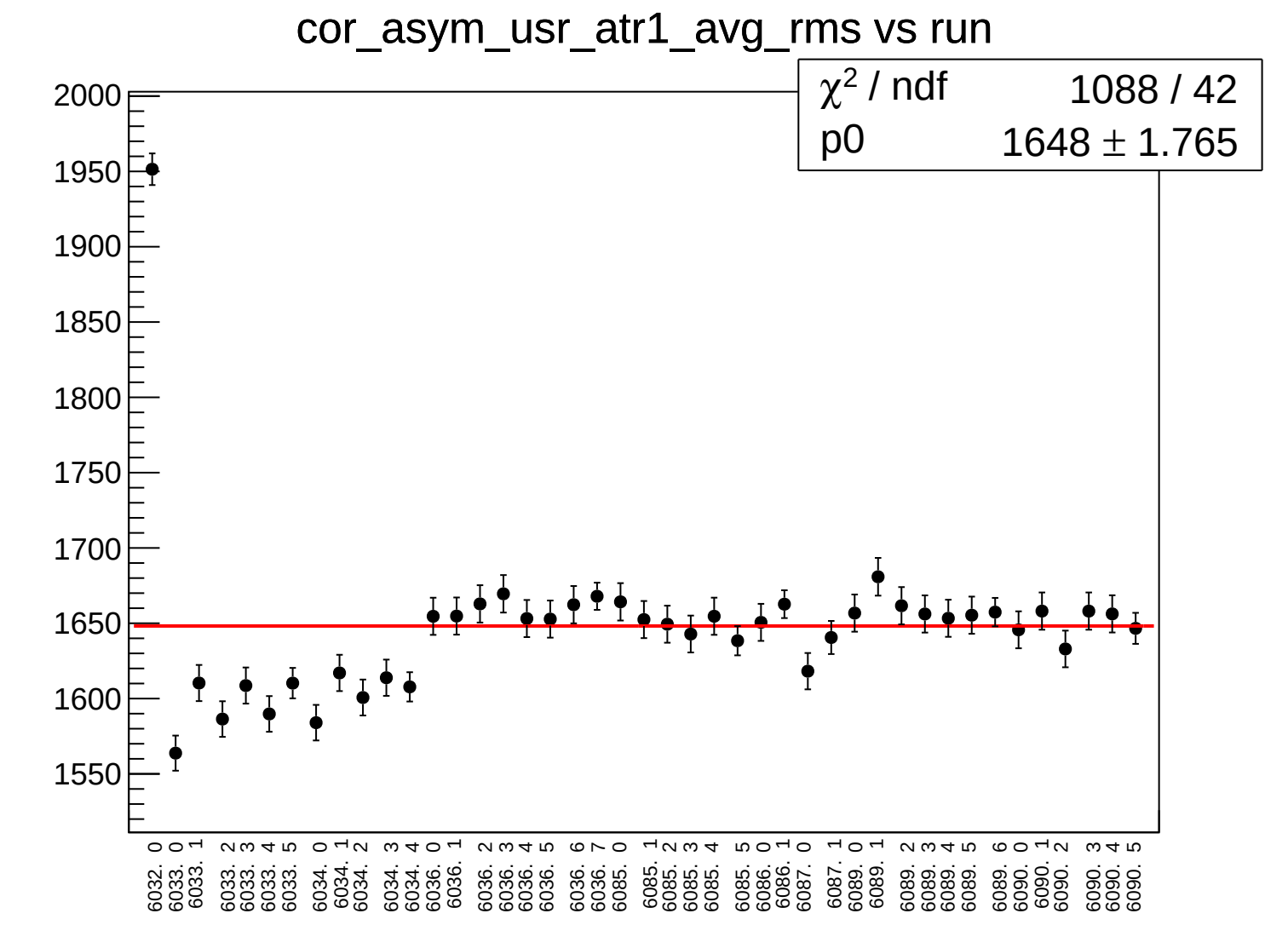

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 41.31 / 42
p0 144.2 ± 1282
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.99
Std Dev 0
2
1
0
−1
−2

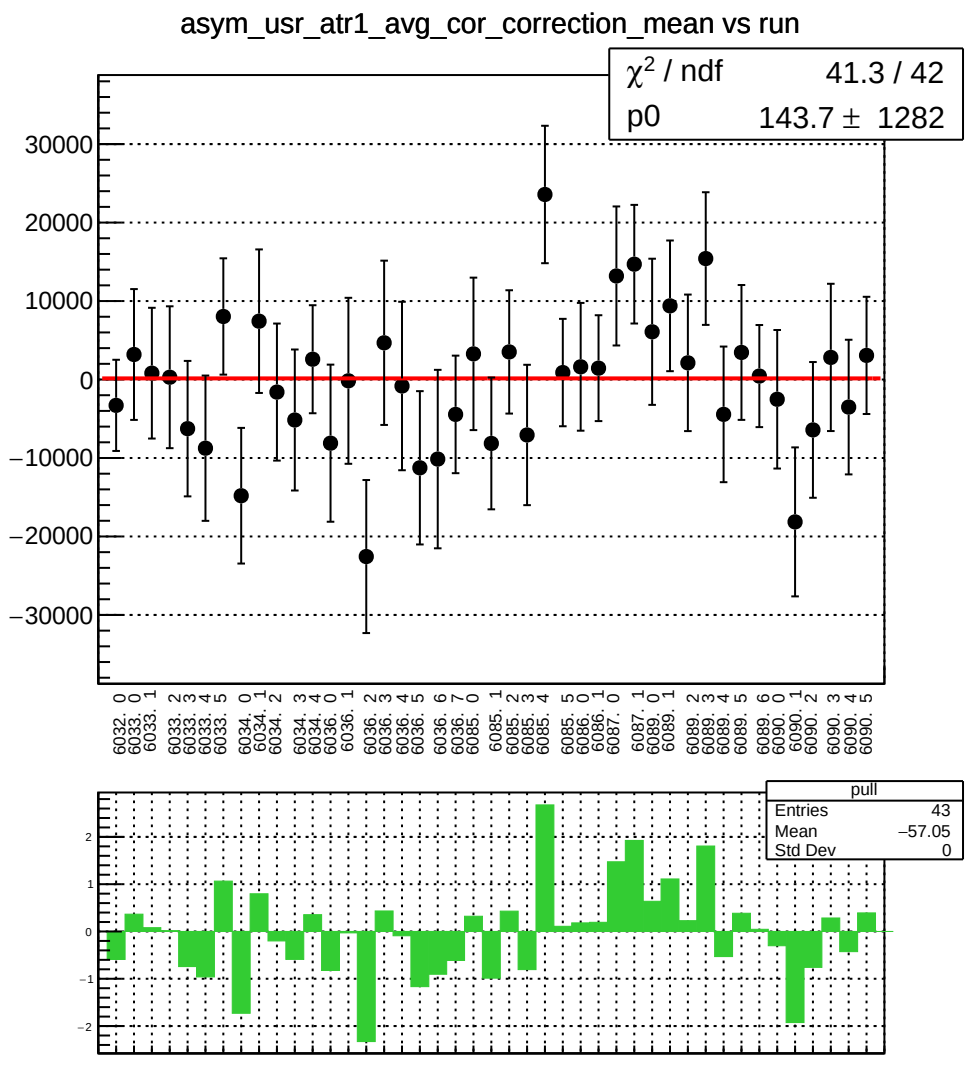

pull1D
Entries 43
Mean −0.02779
Std Dev 0.9798
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

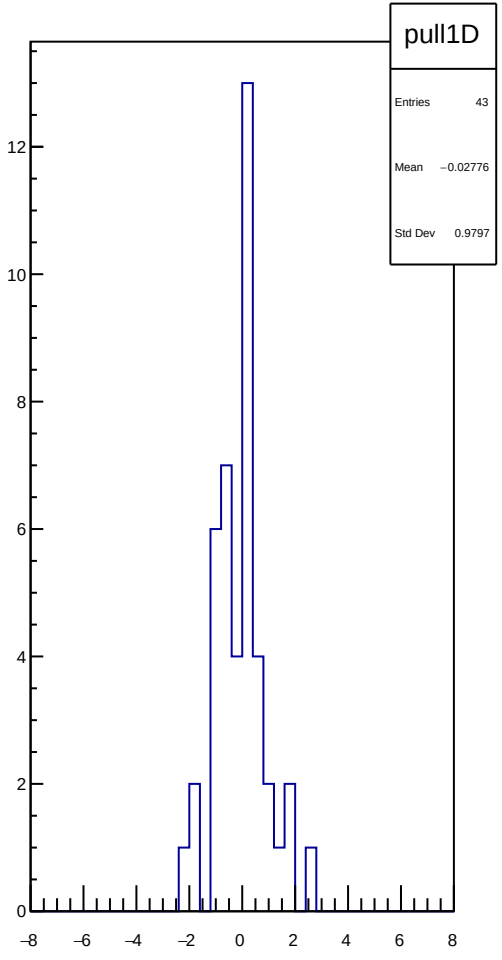

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 5332 / 42
p0 844.6 ± 0.9066
1100
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

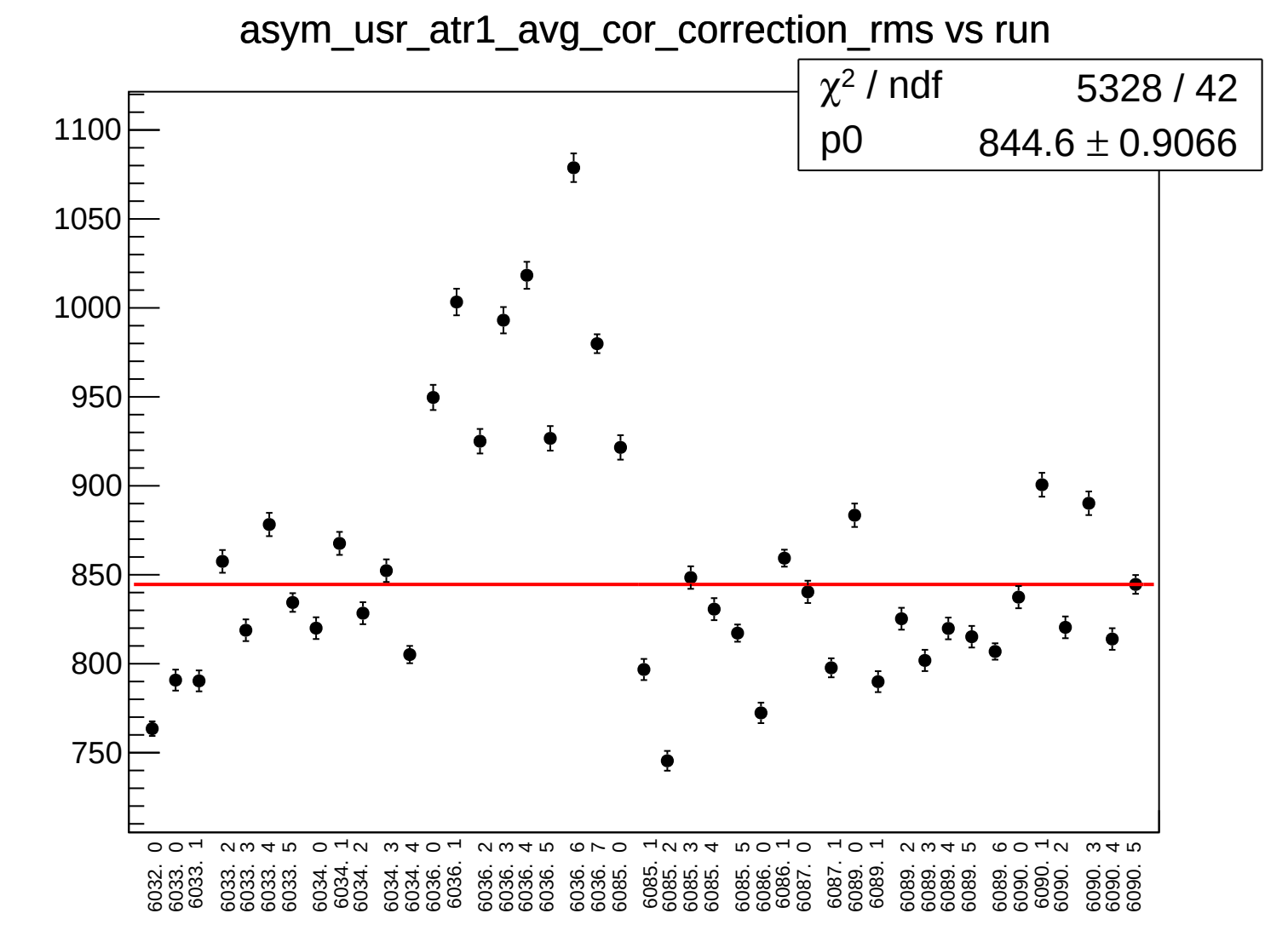

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 27.78 / 42
p0 −4038 ± 2496
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

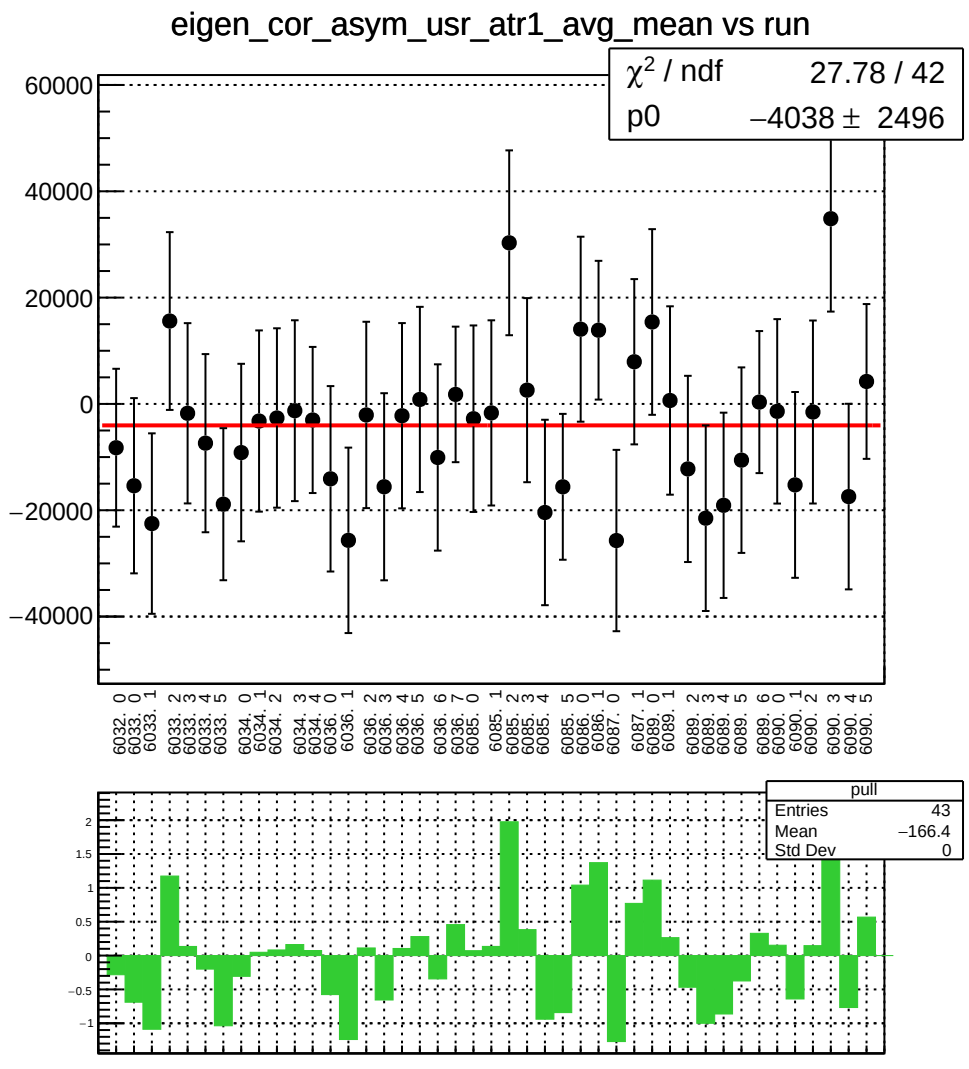

pull1D
Entries 43
Mean −0.009503
Std Dev 0.8038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

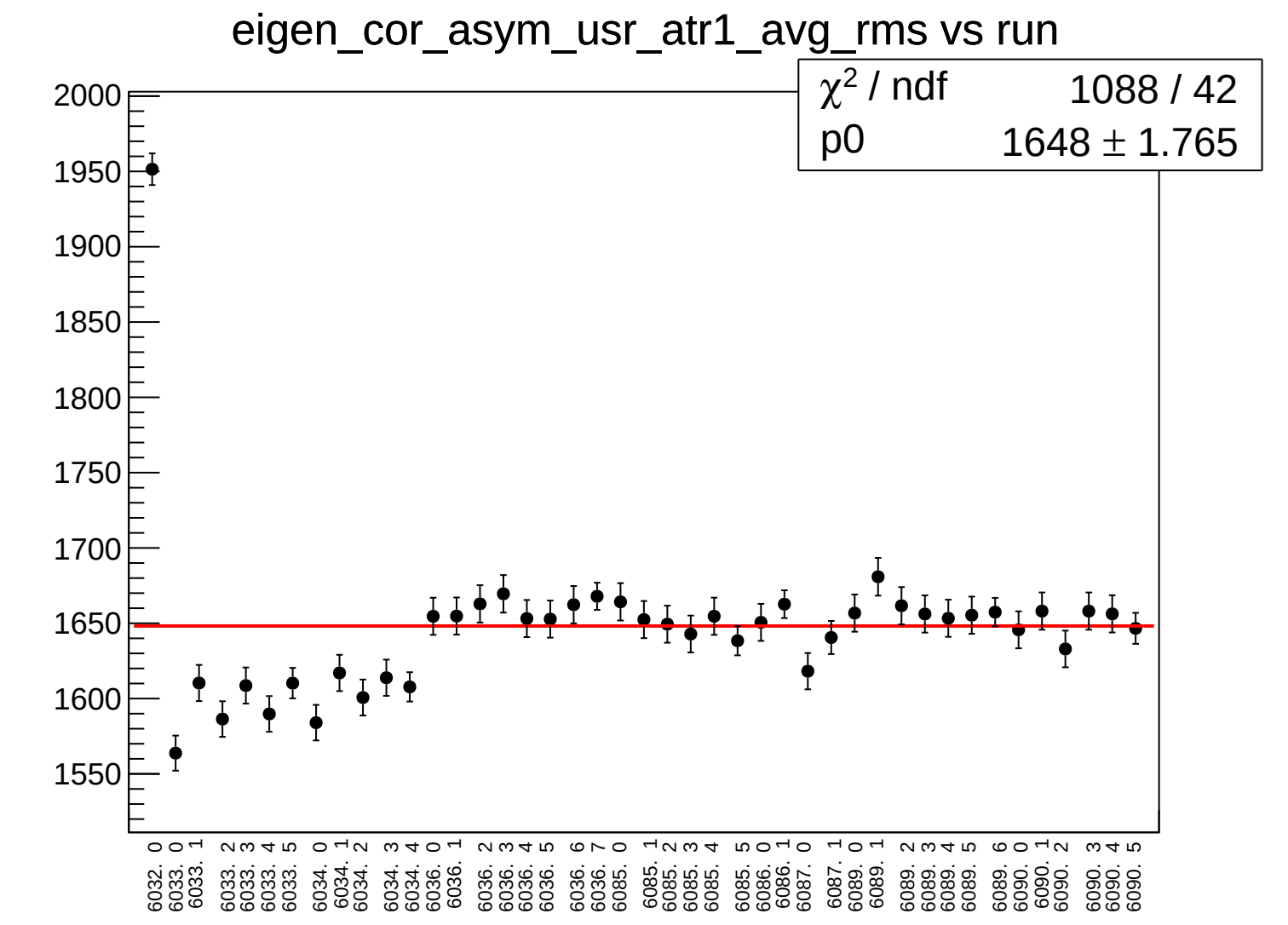

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 1088 / 42
p0 1648 ± 1.765
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

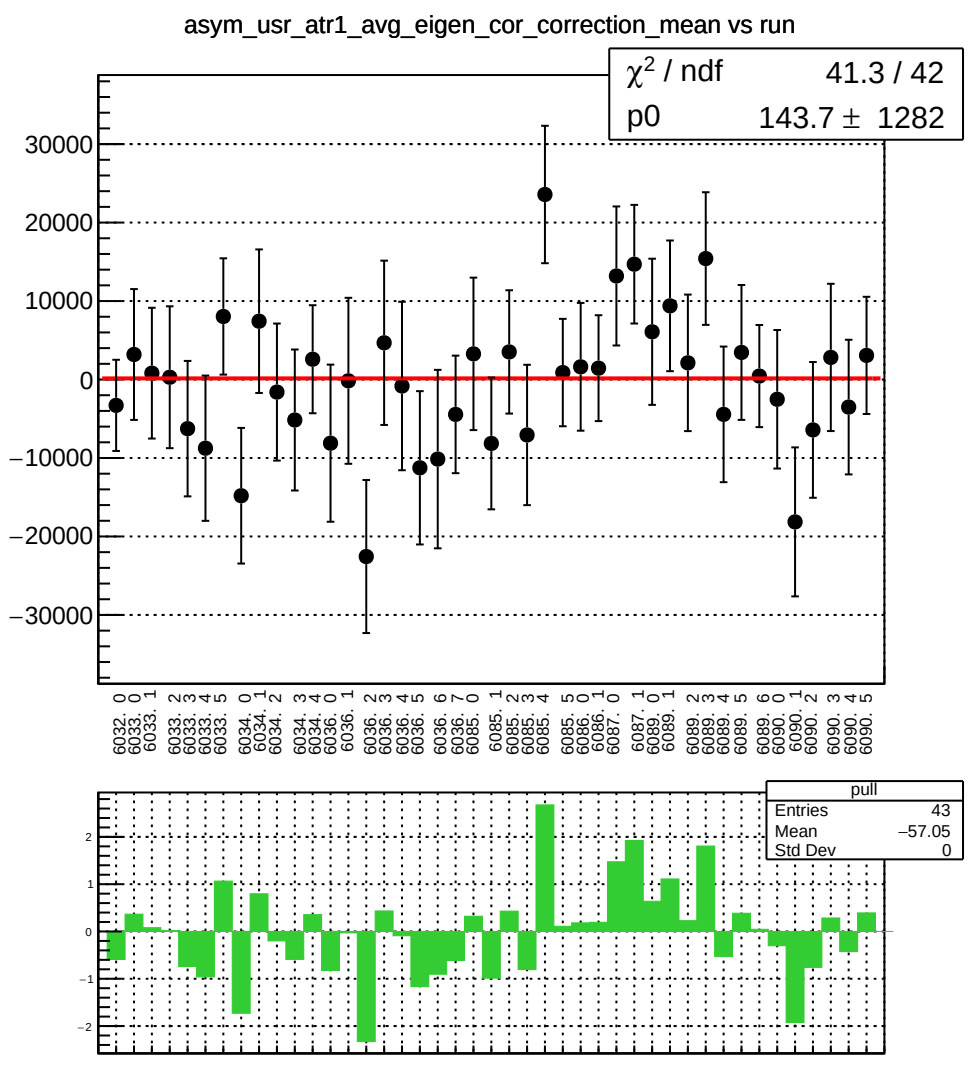

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 41.3 / 42
p0 143.7 ± 1282
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −57.05
Std Dev 0
2
1
0
−1
−2

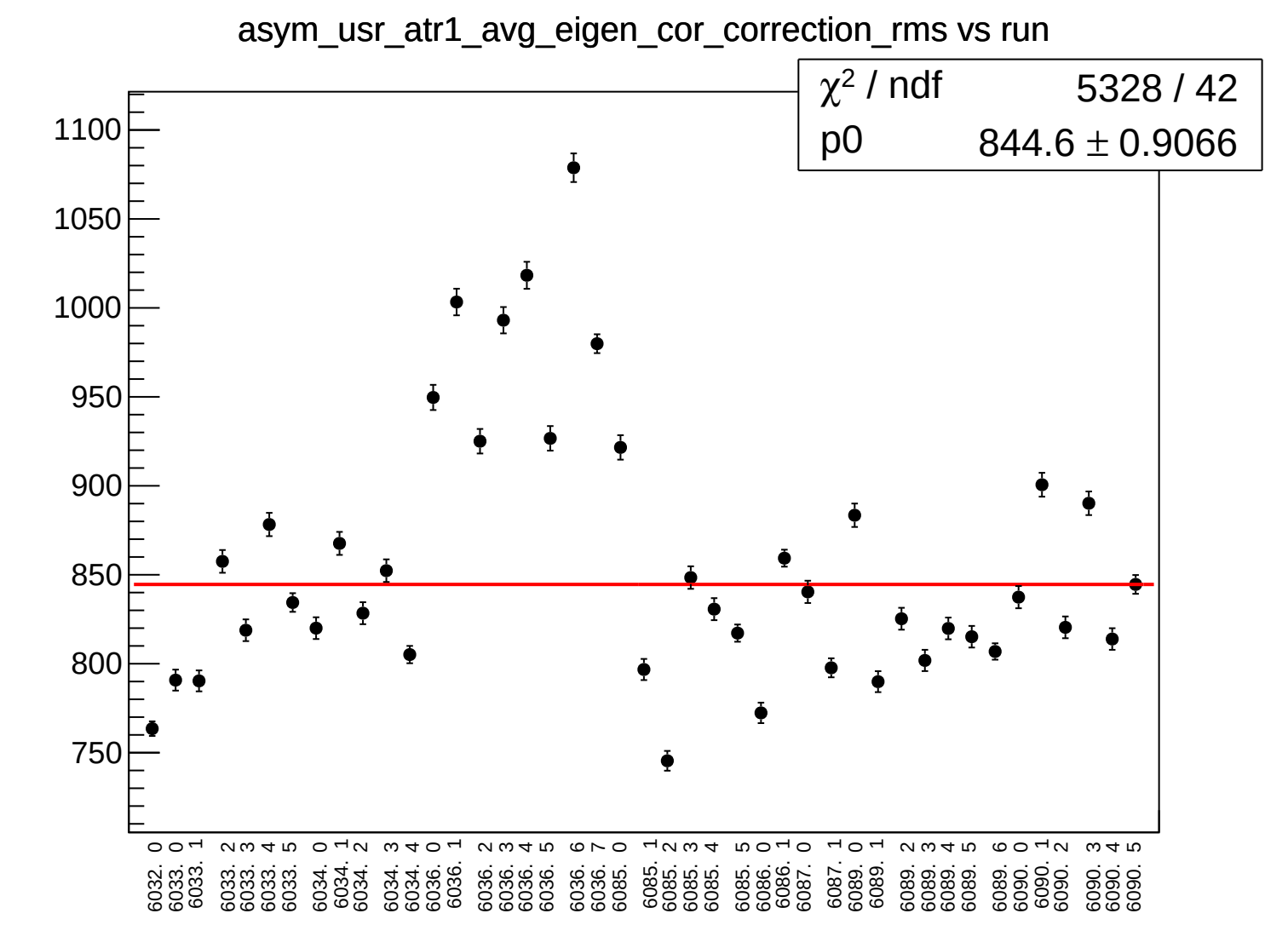

pull1D
Entries 43
Mean −0.02776
Std Dev 0.9797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

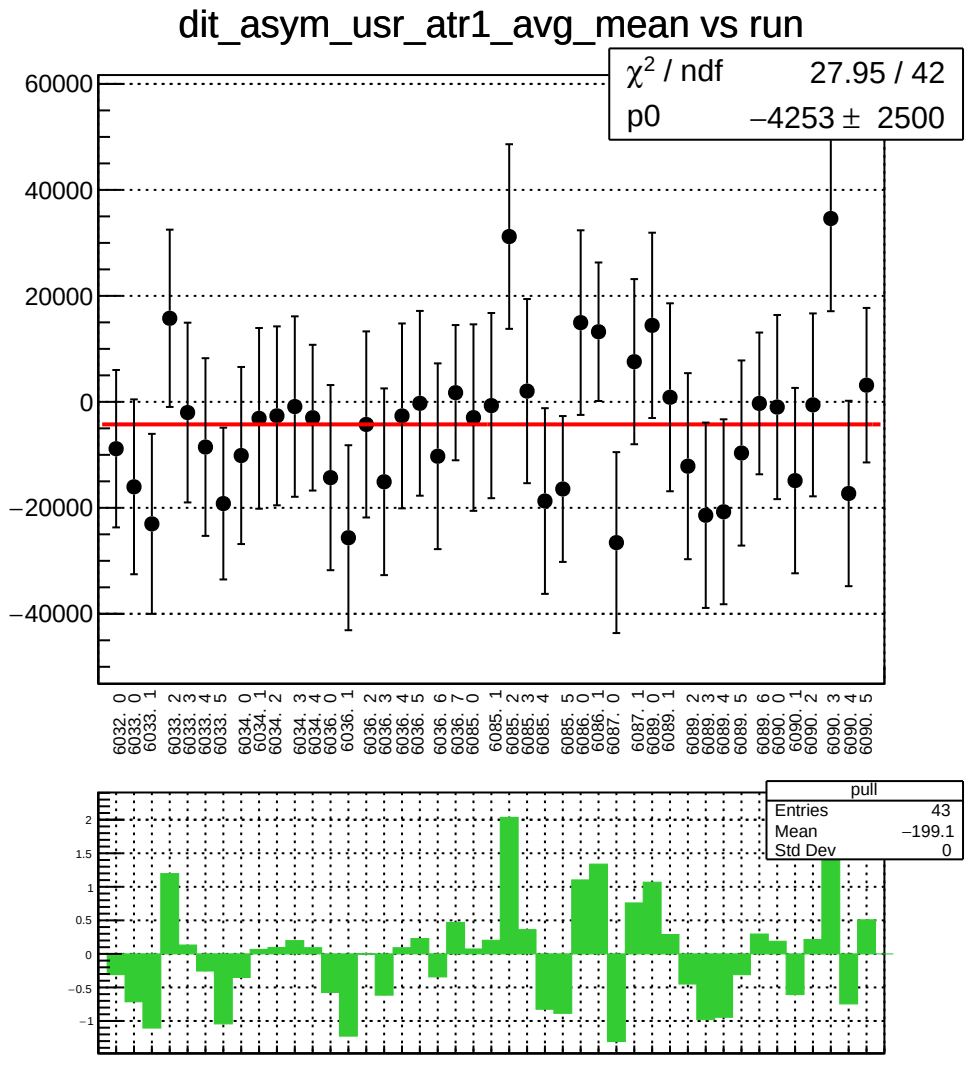

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 5328 / 42
p0 844.6 ± 0.9066
1100
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

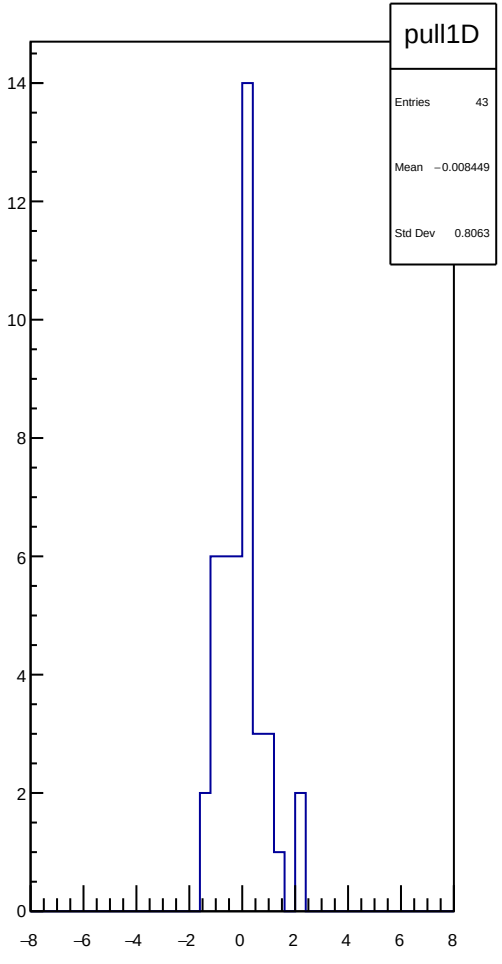

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 27.78 / 42
p0 −4038 ± 2496
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −166.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.009503
Std Dev 0.8038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

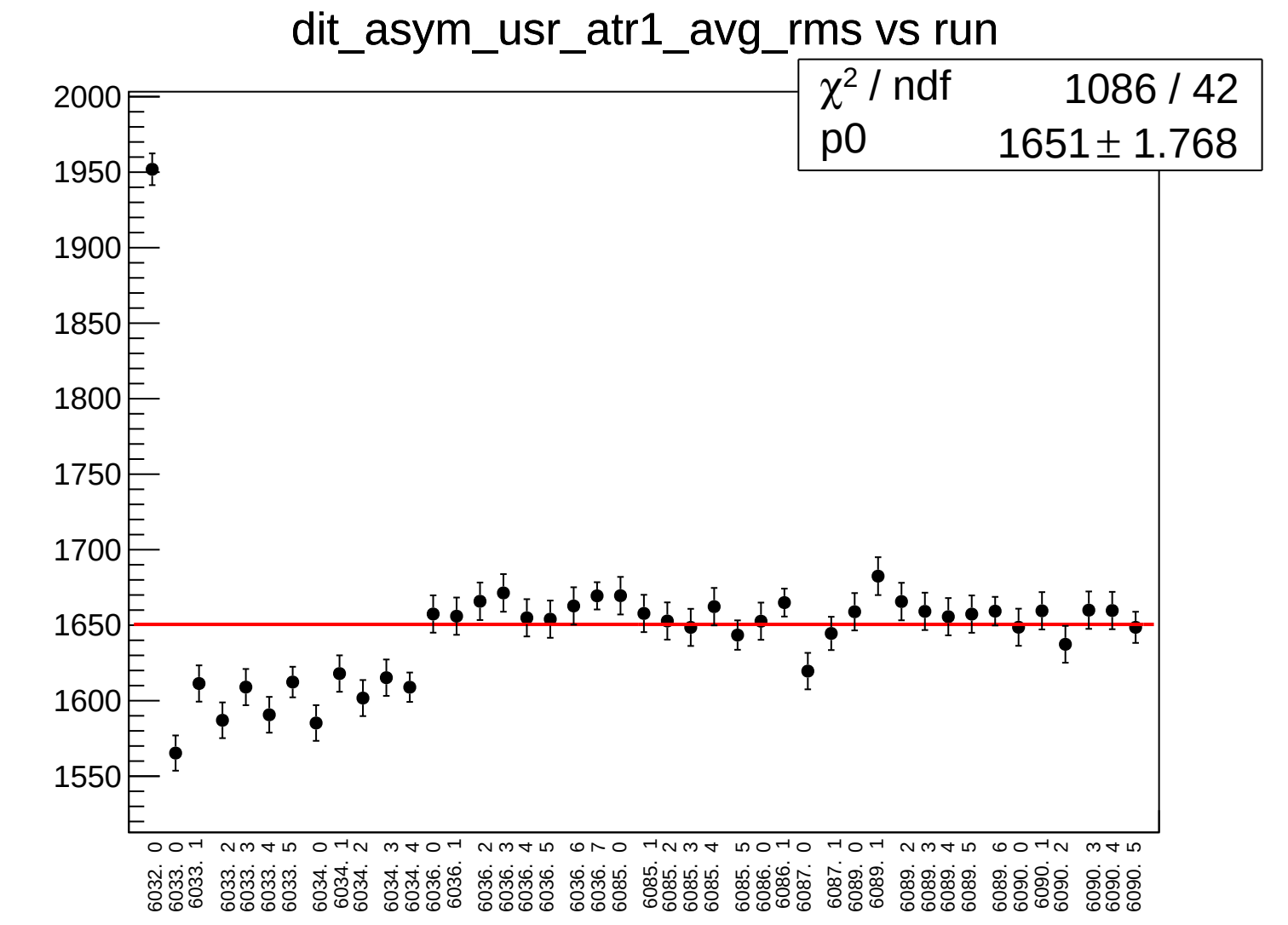

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 1088 / 42
p0 1648 ± 1.765
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

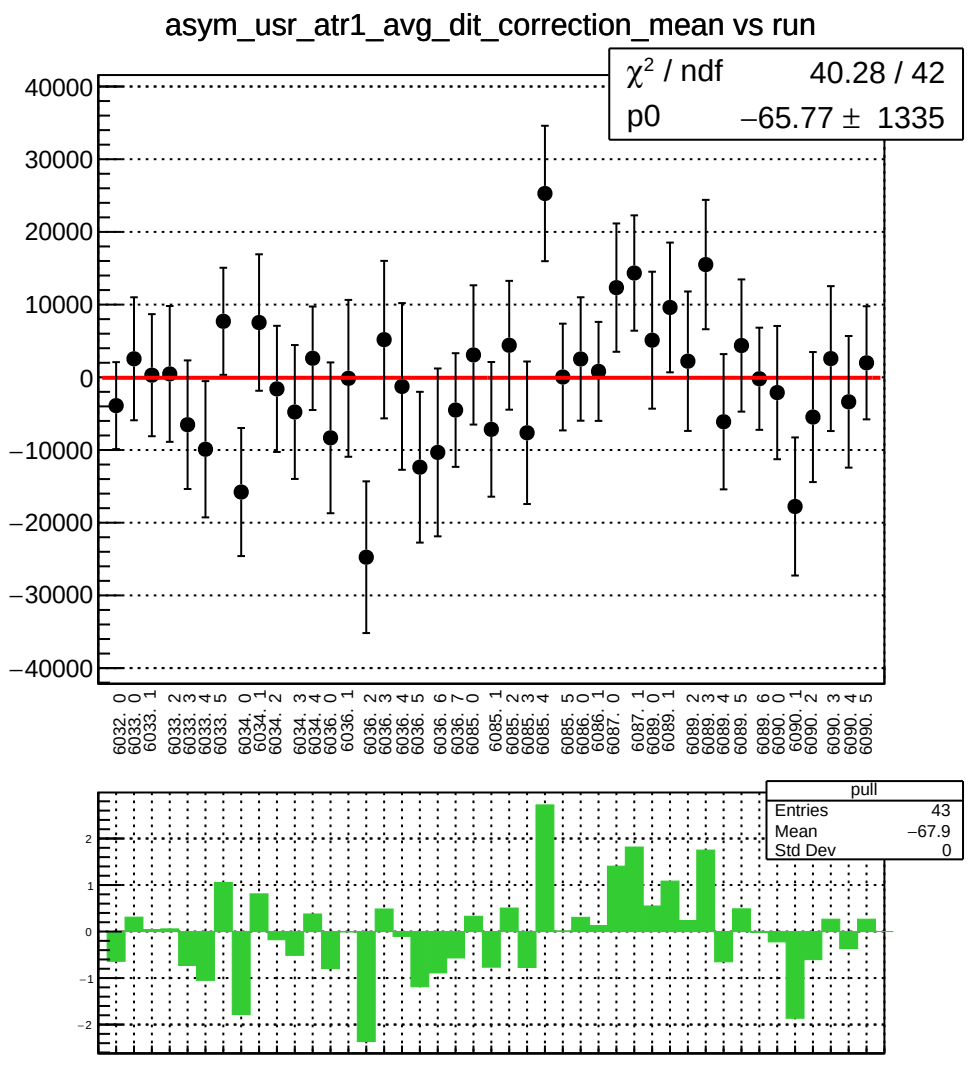

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.3 / 42
p0 143.7 ± 1282
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −57.05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02776
Std Dev 0.9797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

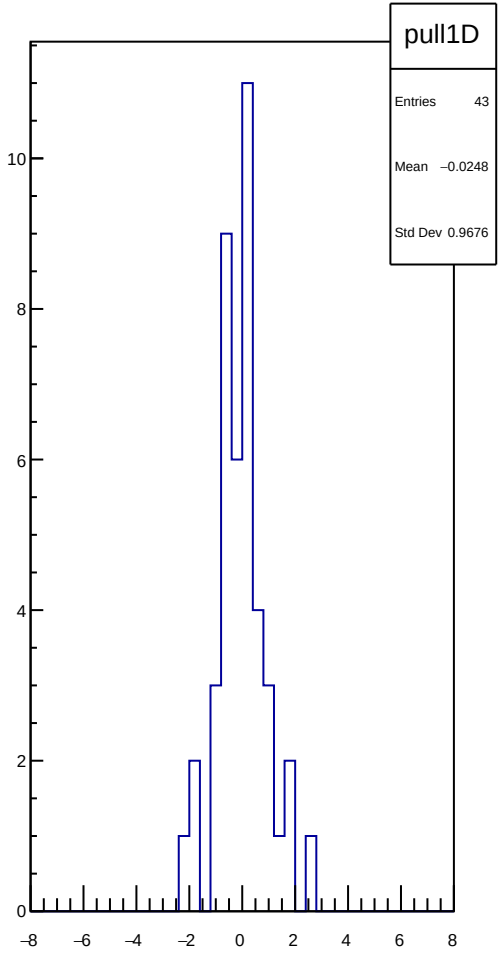

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5328 / 42
p0 844.6 ± 0.9066
1100
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

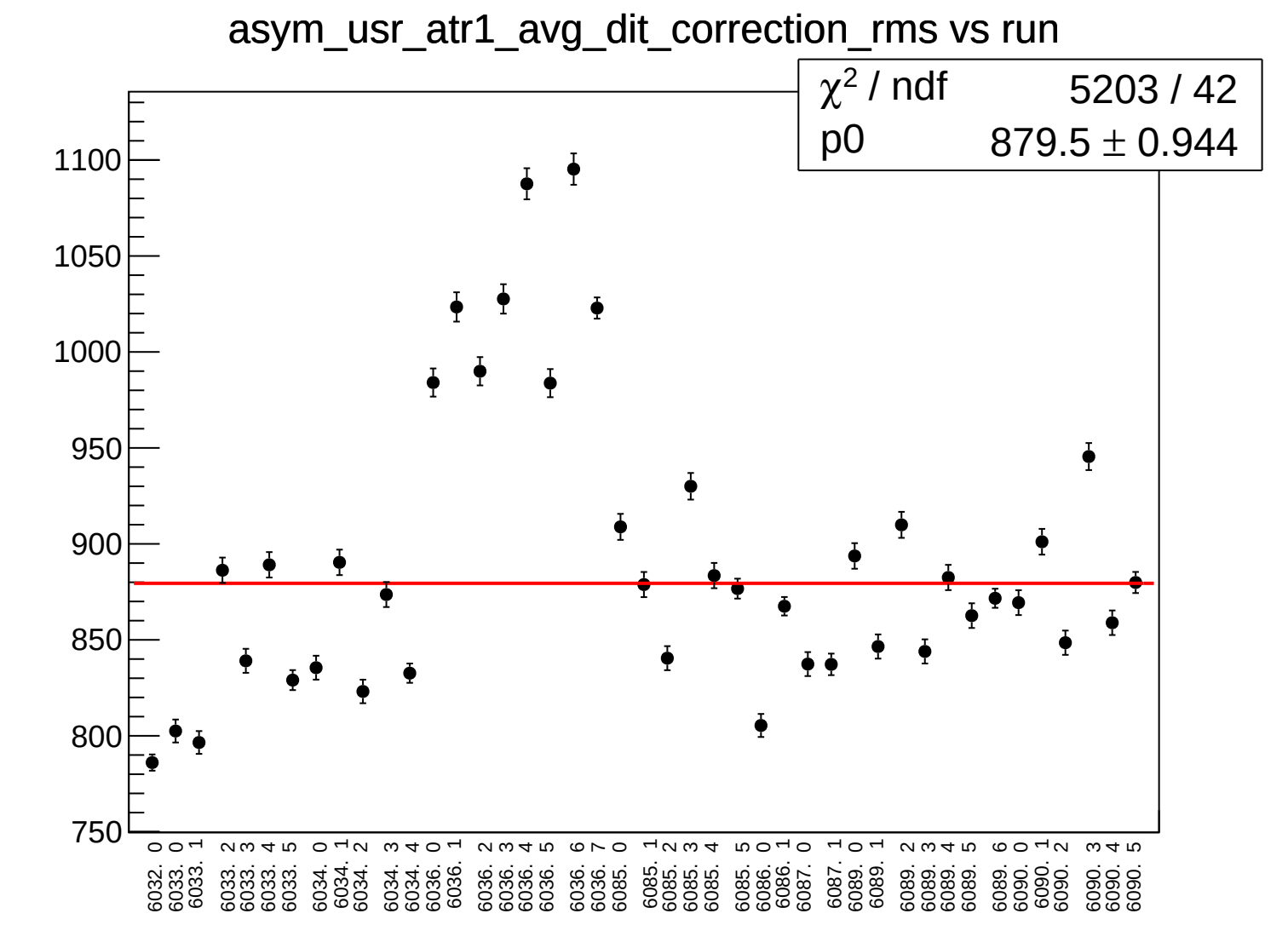

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 27.95 / 42
p0 −4253 ± 2500
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

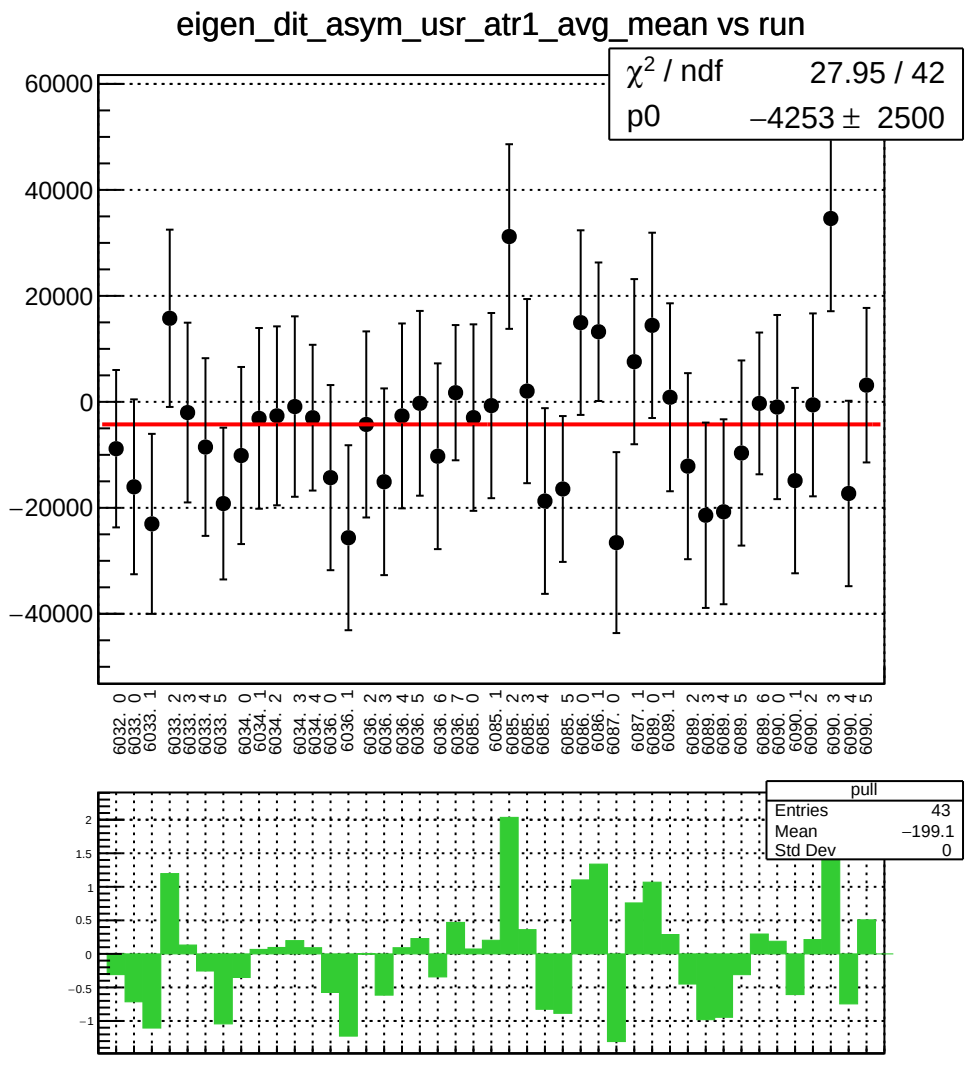

pull1D
Entries 43
Mean −0.008449
Std Dev 0.8063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

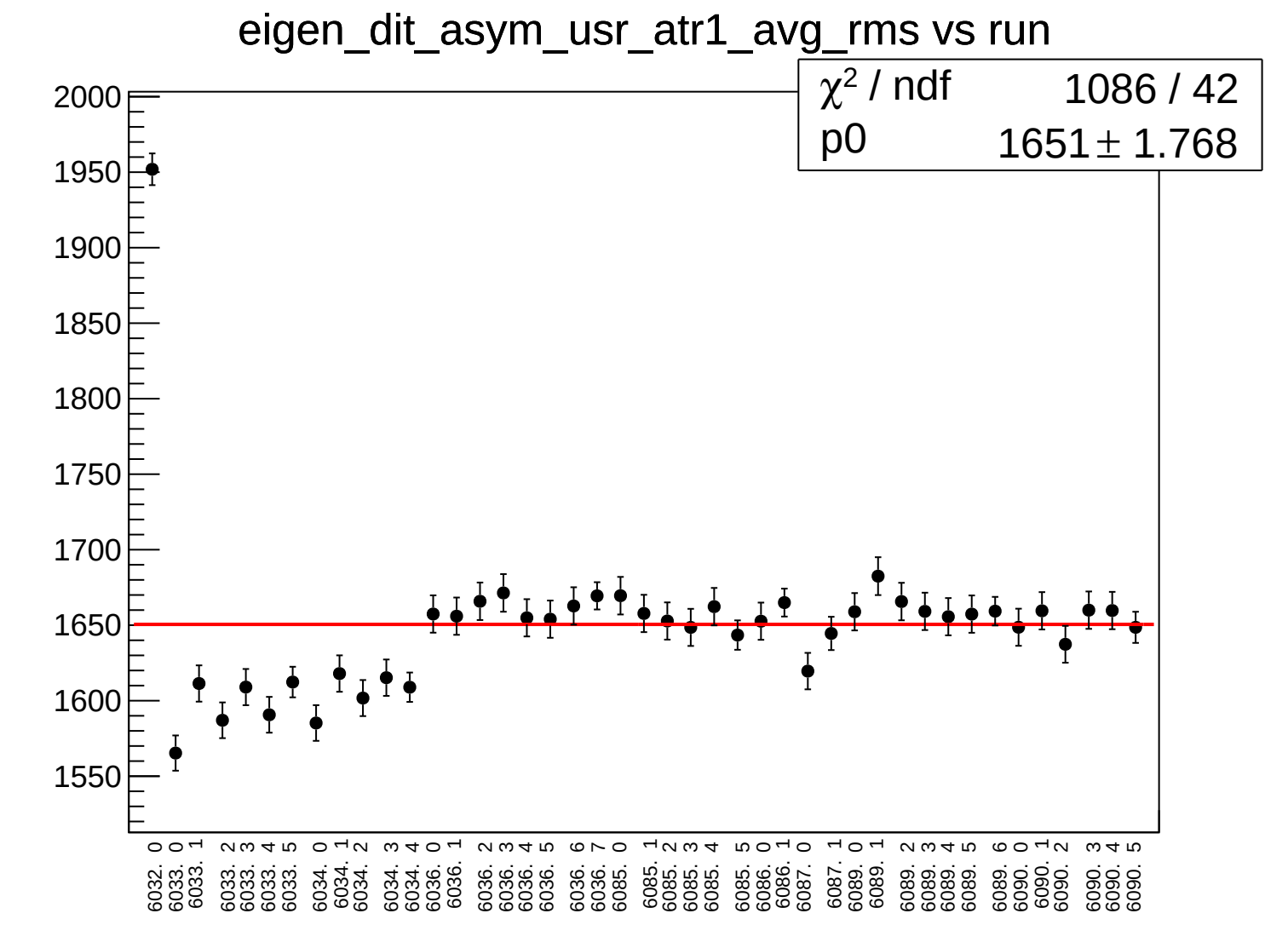

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1086 / 42
p0 1651 ± 1.768
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

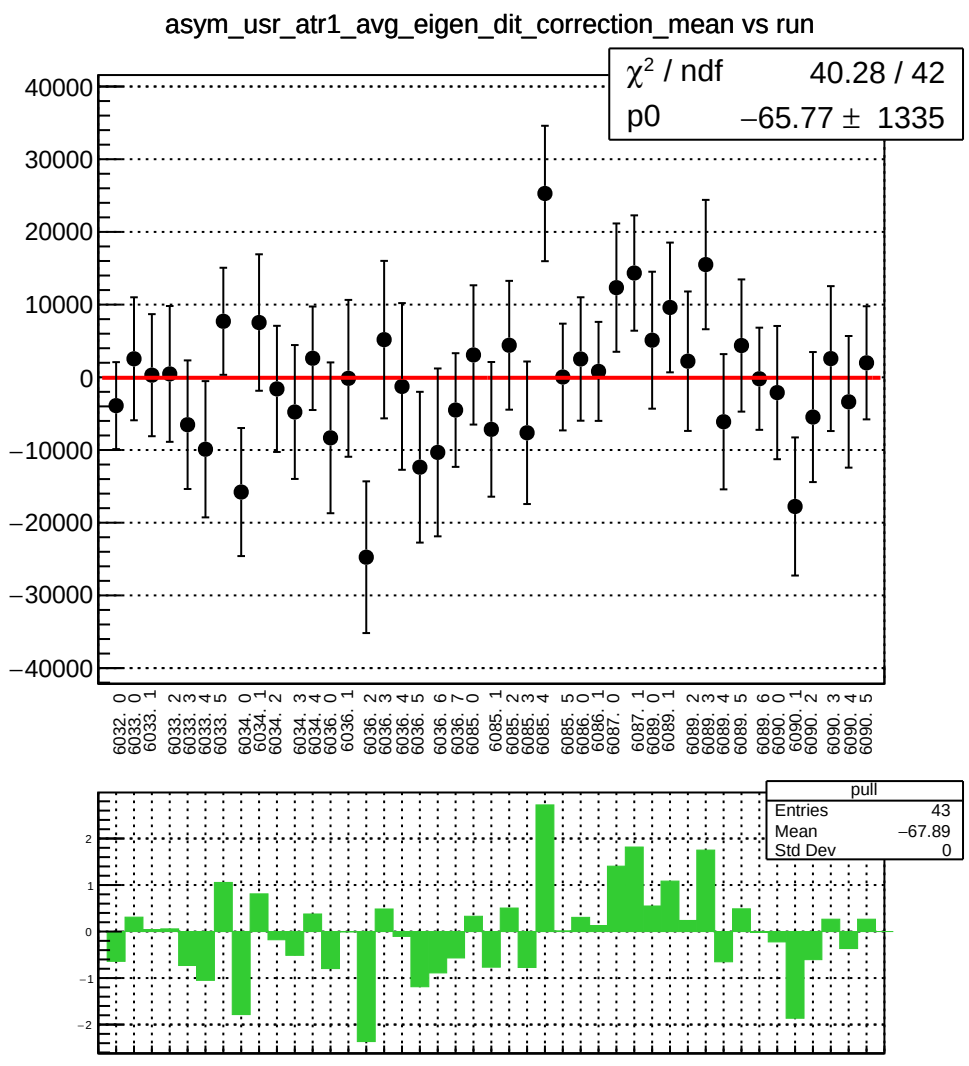

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 40.28 / 42
p0 −65.77 ± 1335
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −67.9
Std Dev 0
2
1
0
−1
−2

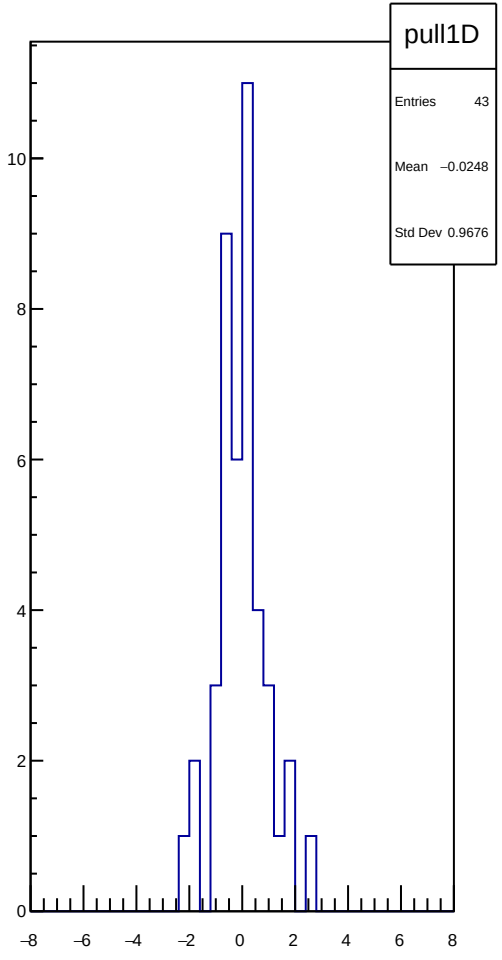

pull1D
Entries 43
Mean −0.0248
Std Dev 0.9676
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

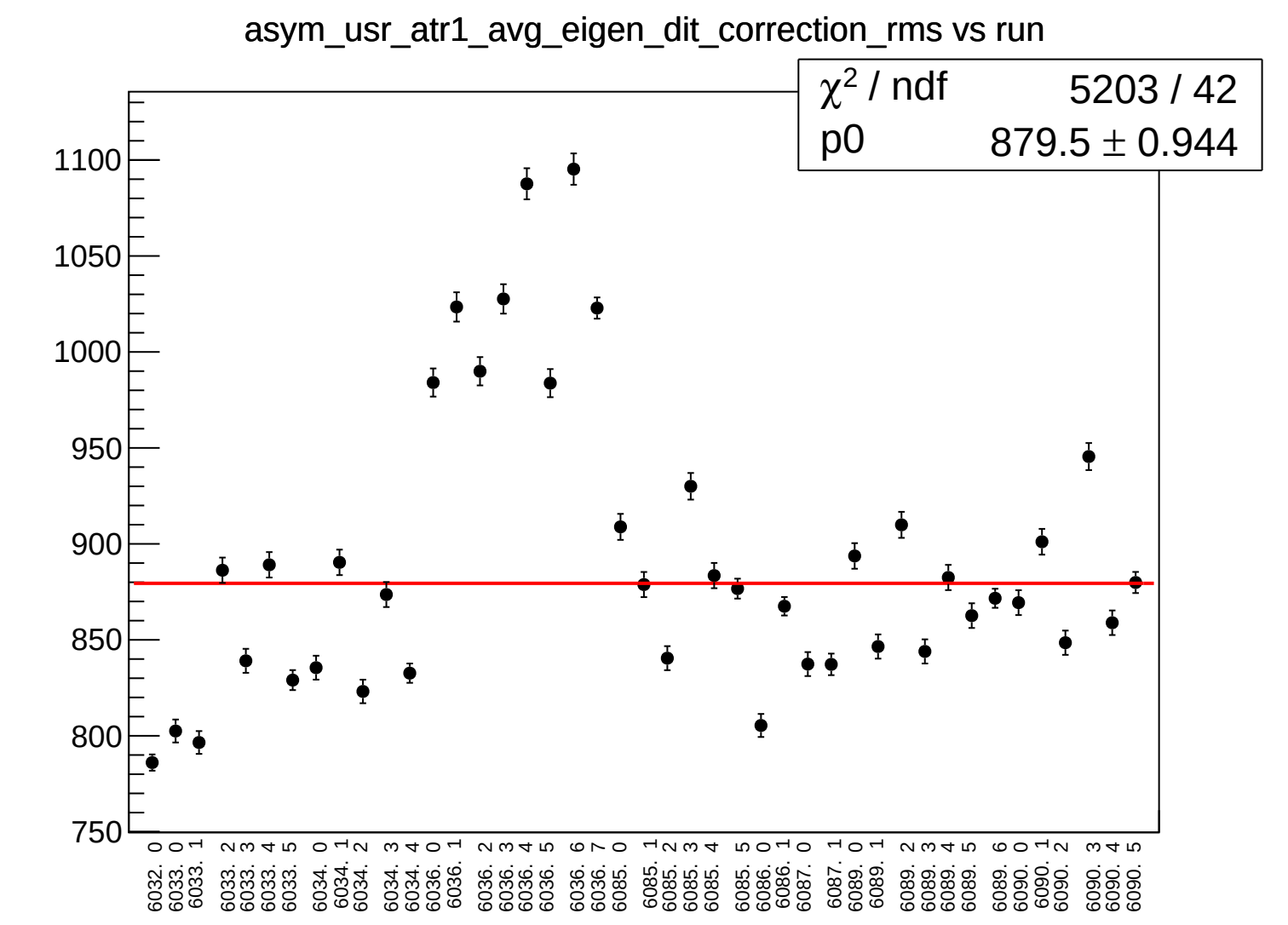

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 5203 / 42
p0 879.5 ± 0.944
1100
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

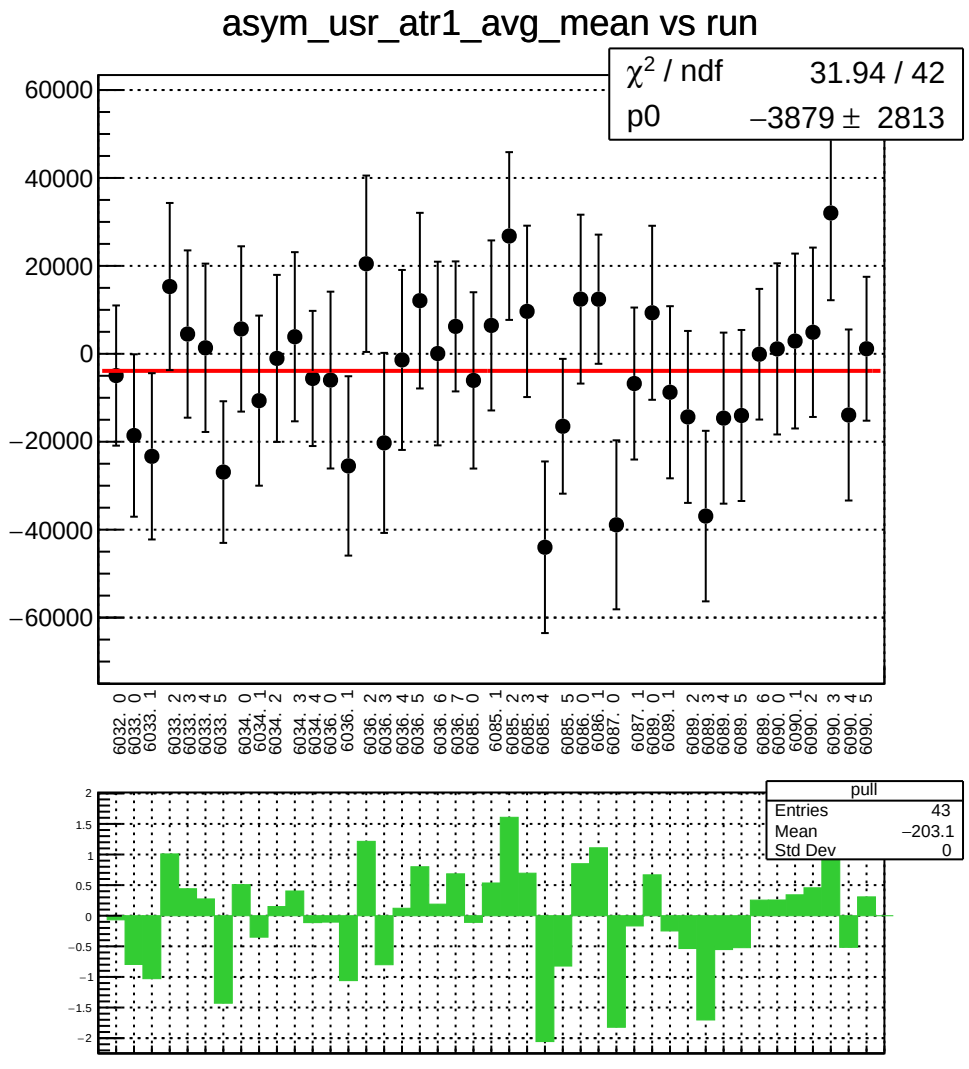

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 27.95 / 42
p0 −4253 ± 2500
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.008449
Std Dev 0.8063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

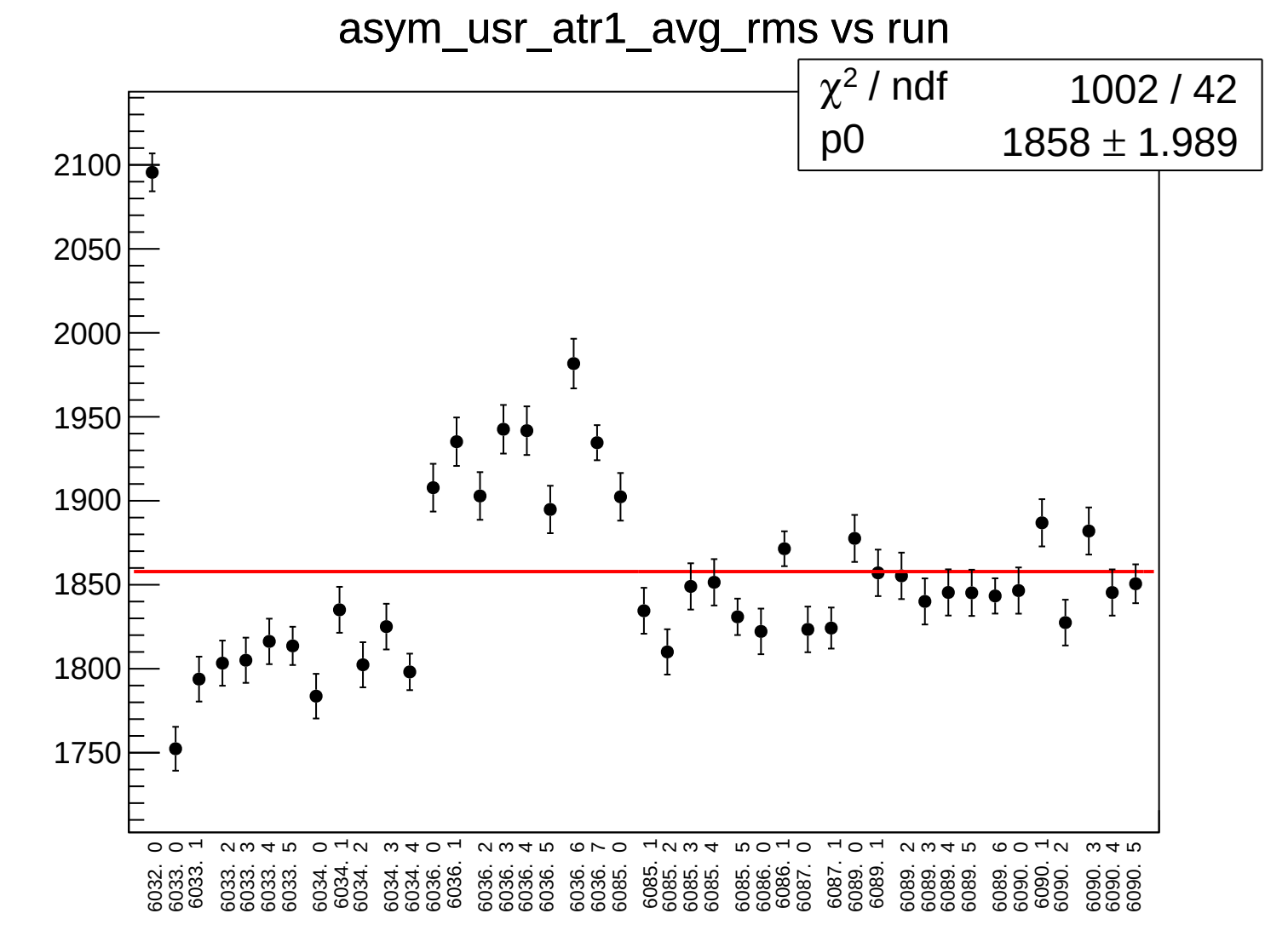

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1086 / 42
p0 1651 ± 1.768
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

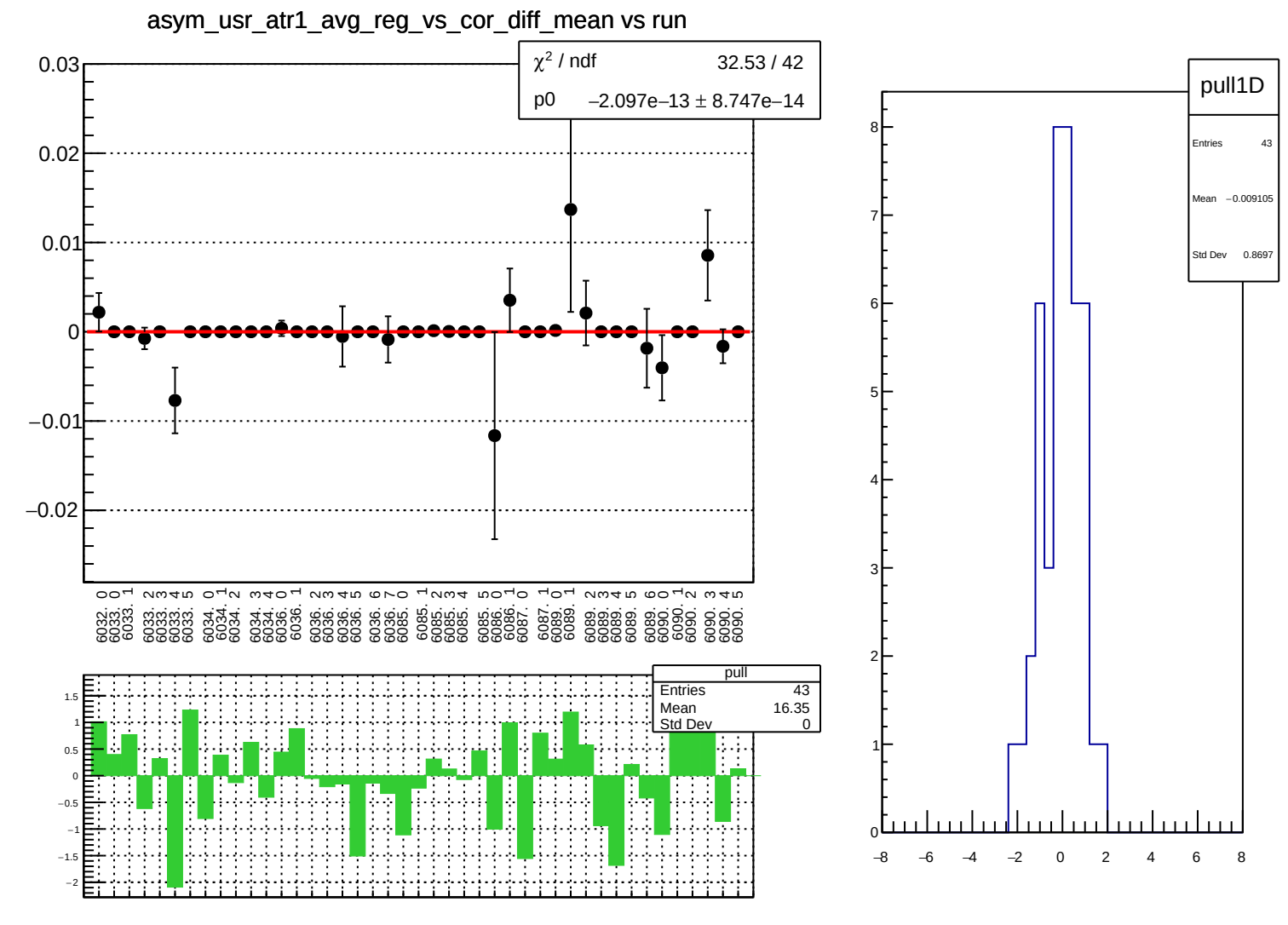

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.28 / 42
p0 −65.77 ± 1335
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −67.89
Std Dev 0
2
1
0
−1
−2

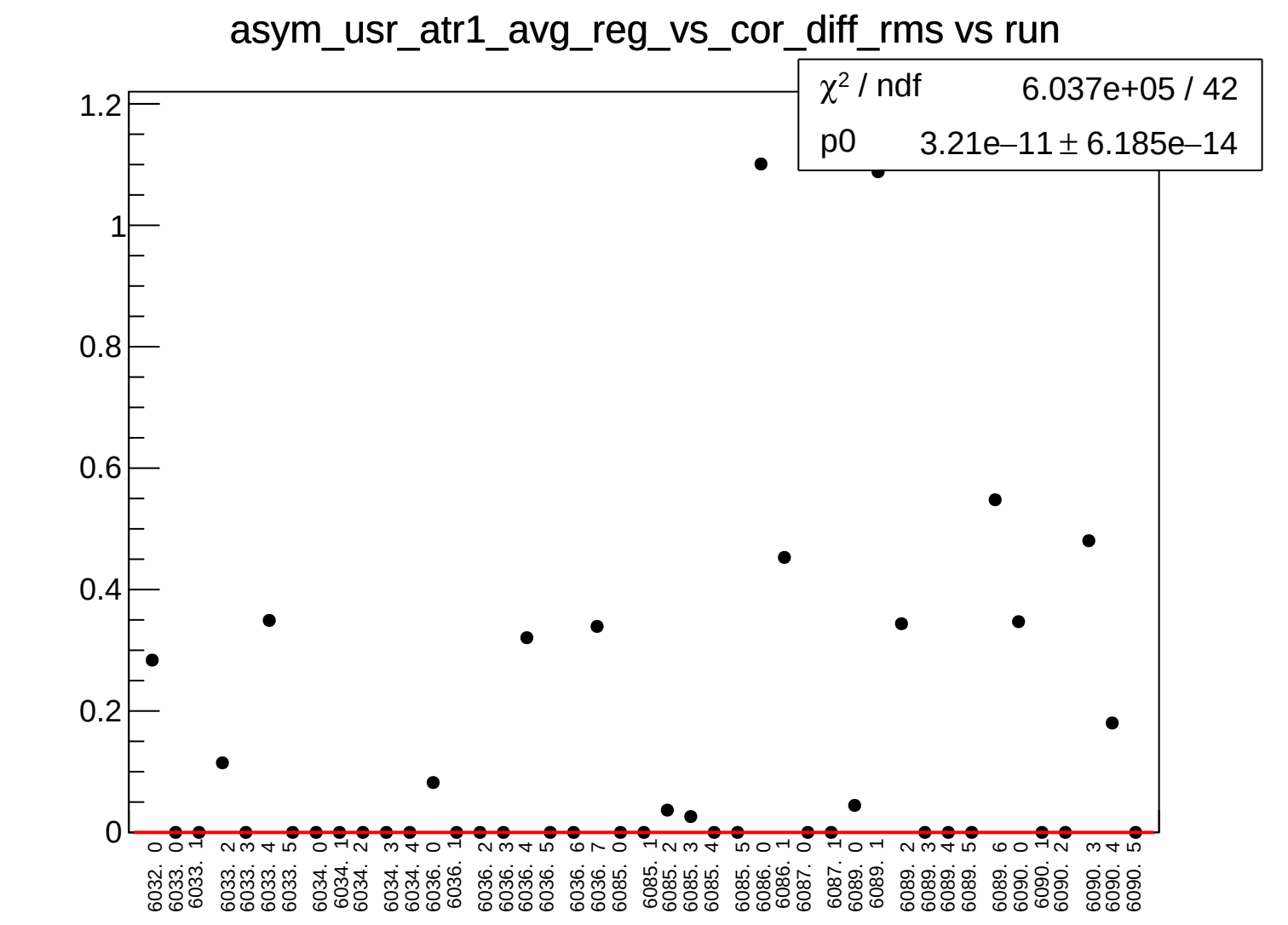

pull1D
Entries 43
Mean −0.0248
Std Dev 0.9676
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

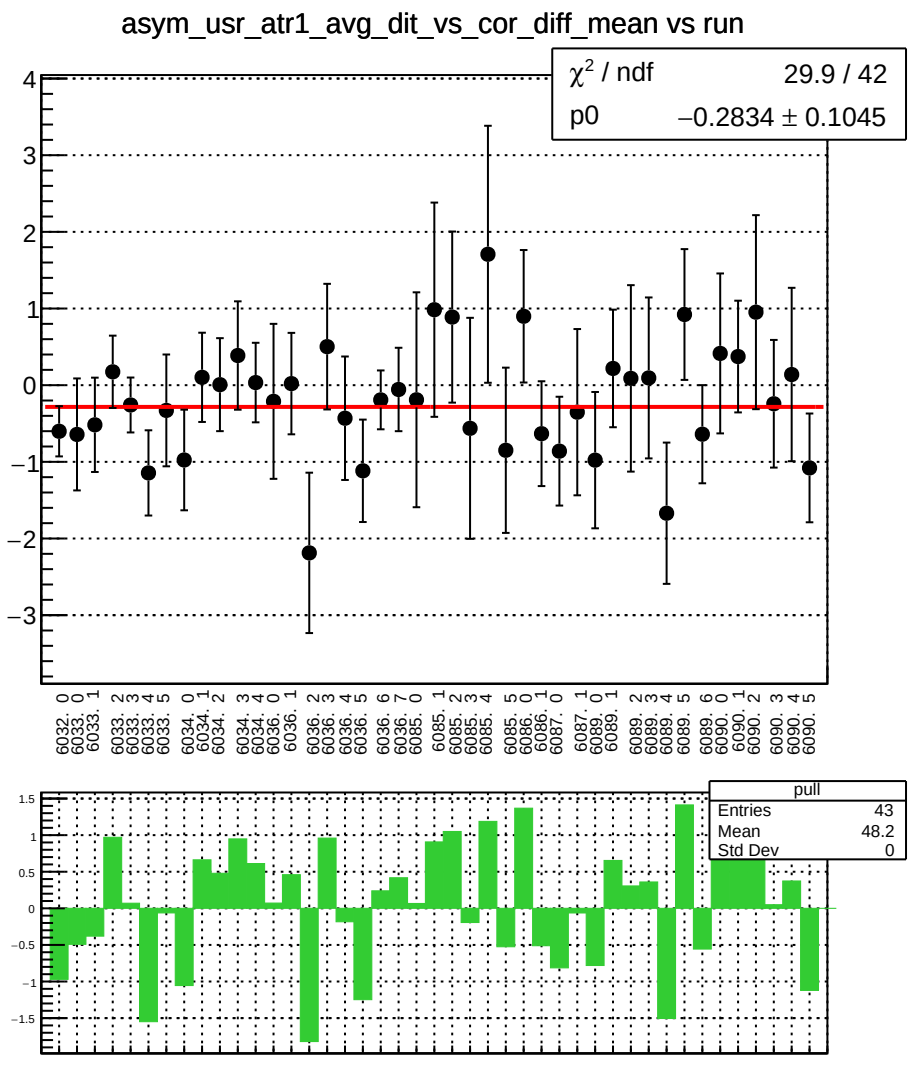

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5203 / 42
p0 879.5 ± 0.944
1100
1050
1000
950
900
850
800
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

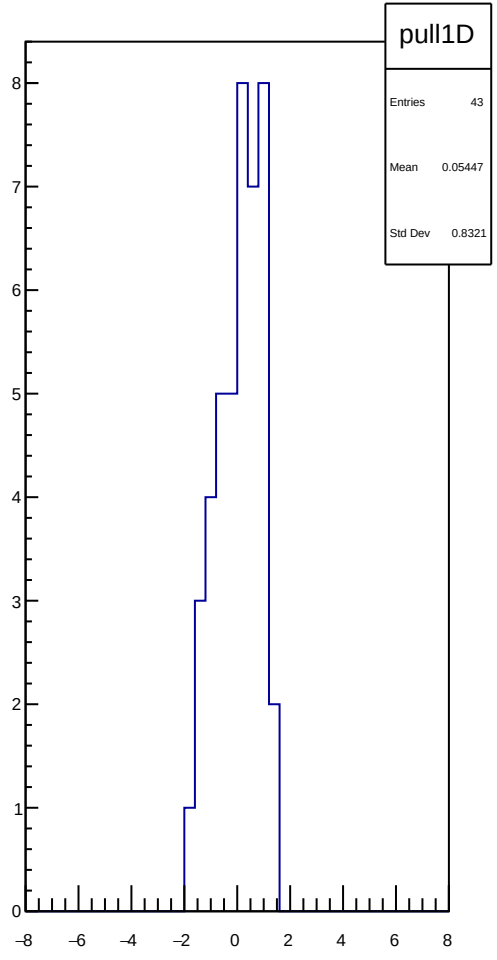

asym_usr_atr1_avg_mean vs run
χ² / ndf 31.94 / 42
p0 −3879 ± 2813
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −203.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002713
Std Dev 0.8618
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

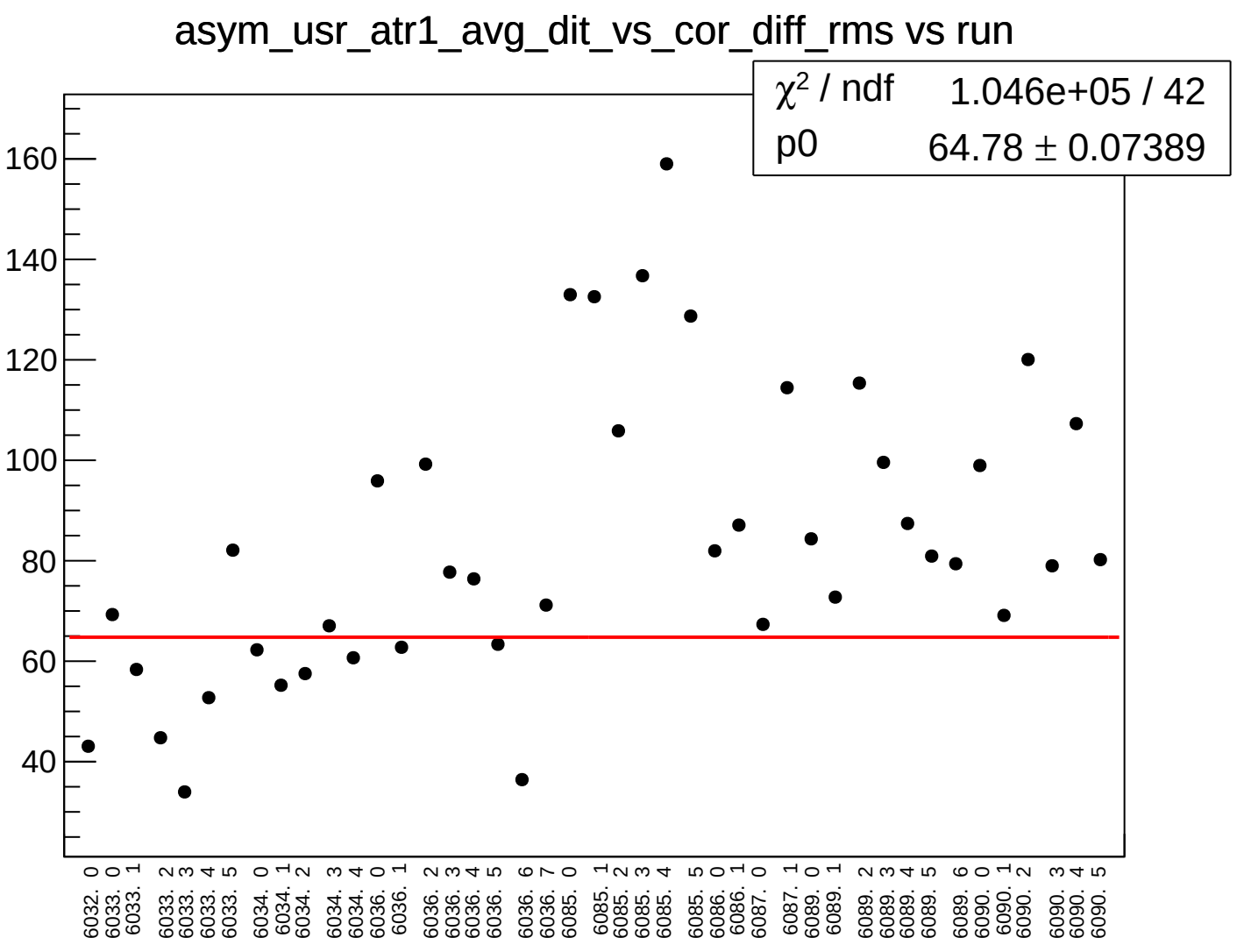

asym_usr_atr1_avg_rms vs run
χ² / ndf 1002 / 42
p0 1858 ± 1.989
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.53 / 42
p0 −2.097e−13 ± 8.747e−14
0.03
0.02
0.01
0
−0.01
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.009105
Std Dev 0.8697
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

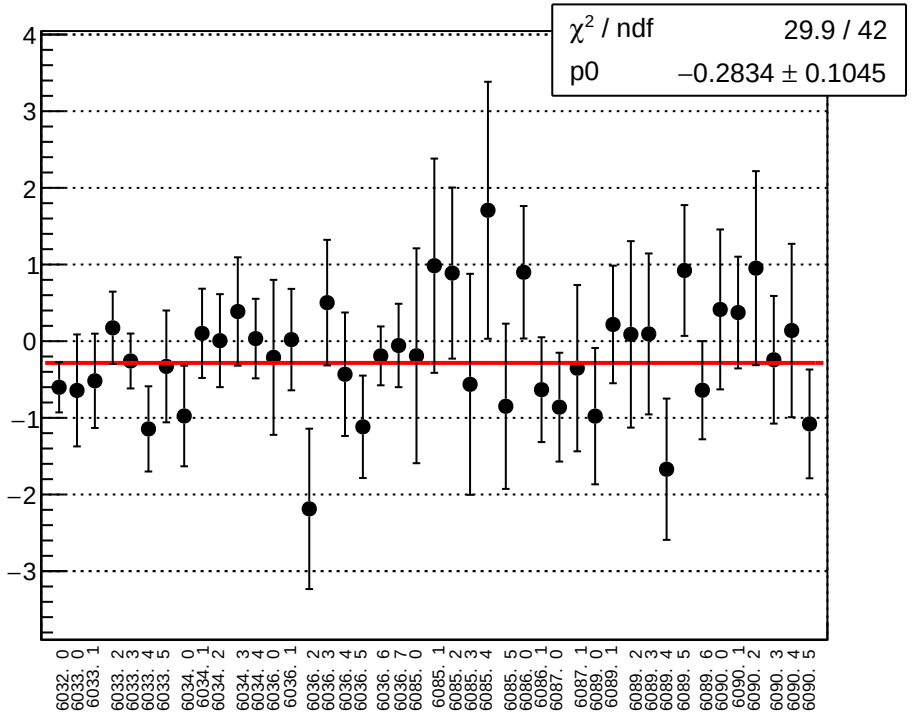

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.037e+05 / 42
p0 3.21e−11 ± 6.185e−14
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

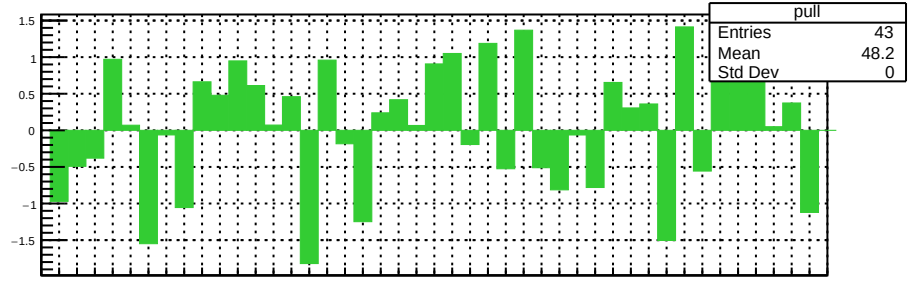

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.9 / 42
p0 −0.2834 ± 0.1045
pull
Entries 43
Mean 48.2
Std Dev 0

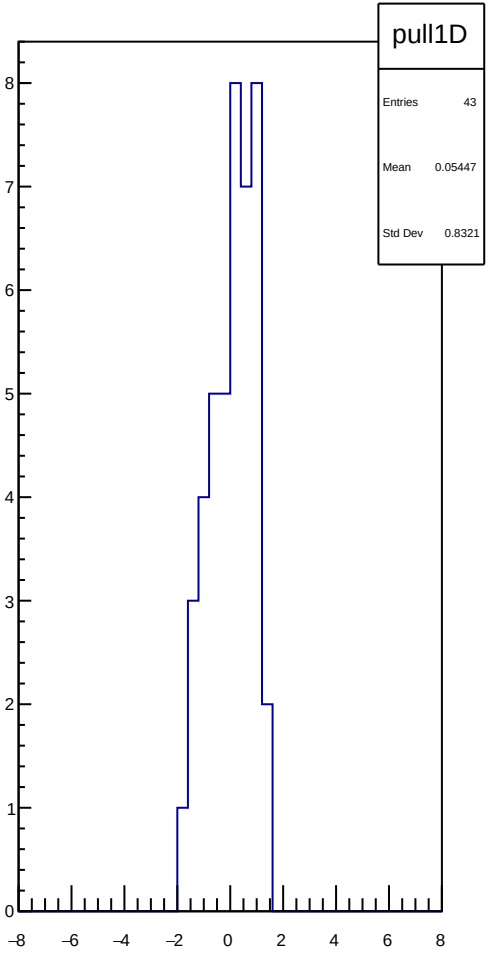

pull1D
Entries 43
Mean 0.05447
Std Dev 0.8321

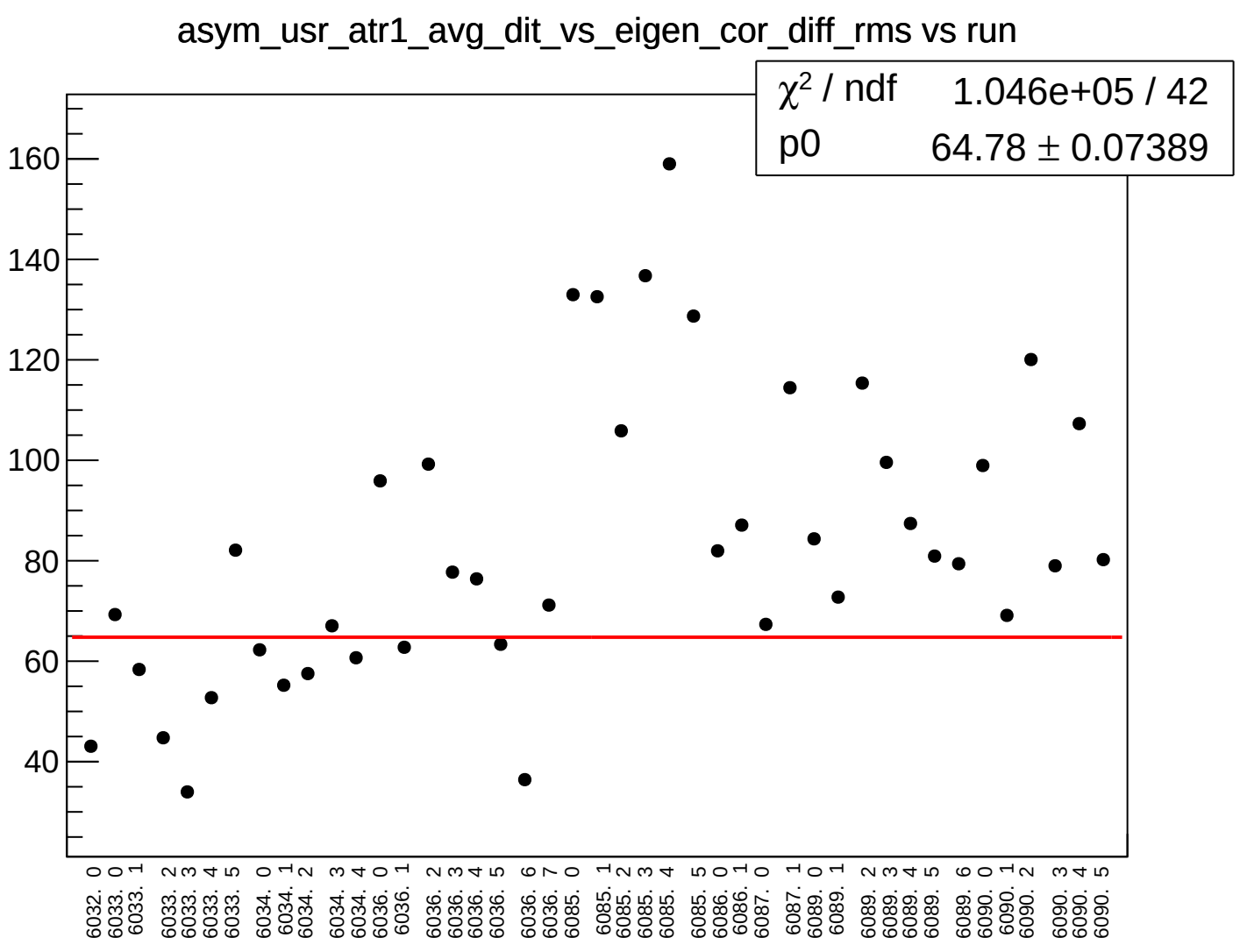

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.046e+05 / 42
p0 64.78 ± 0.07389
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

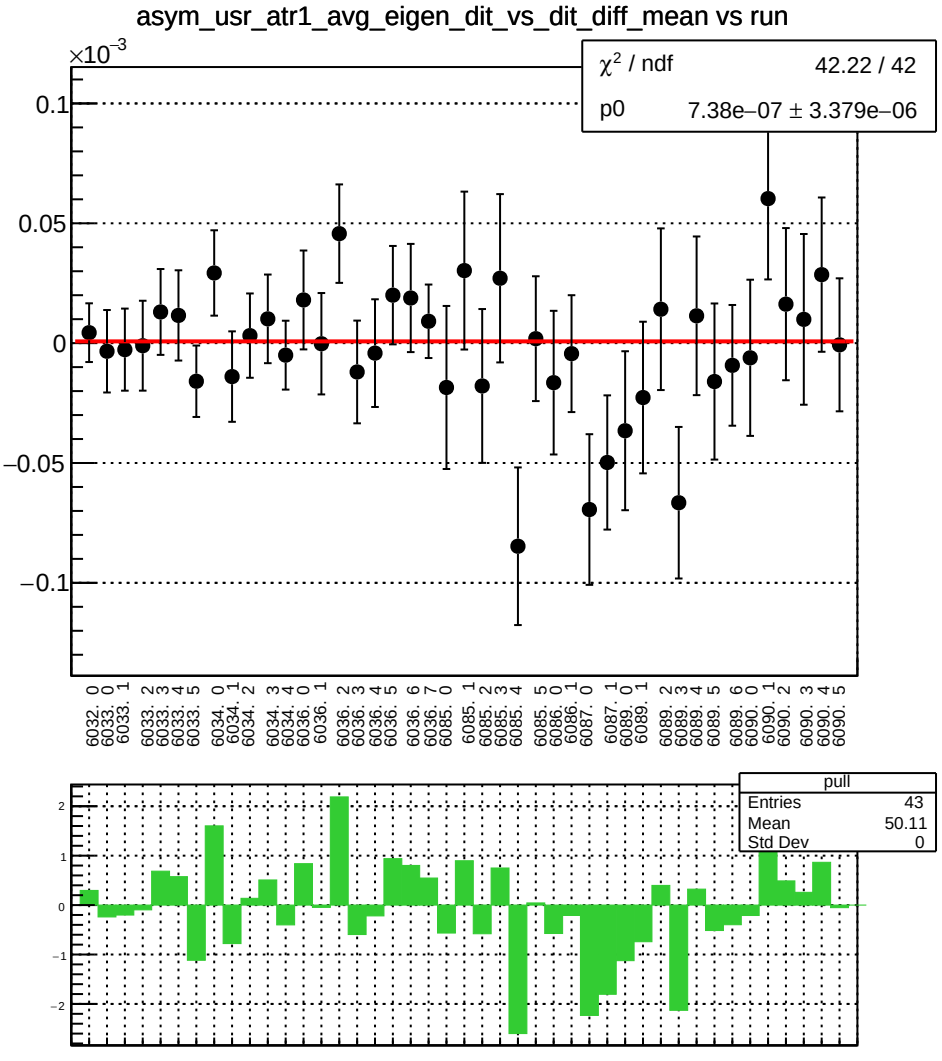
asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run

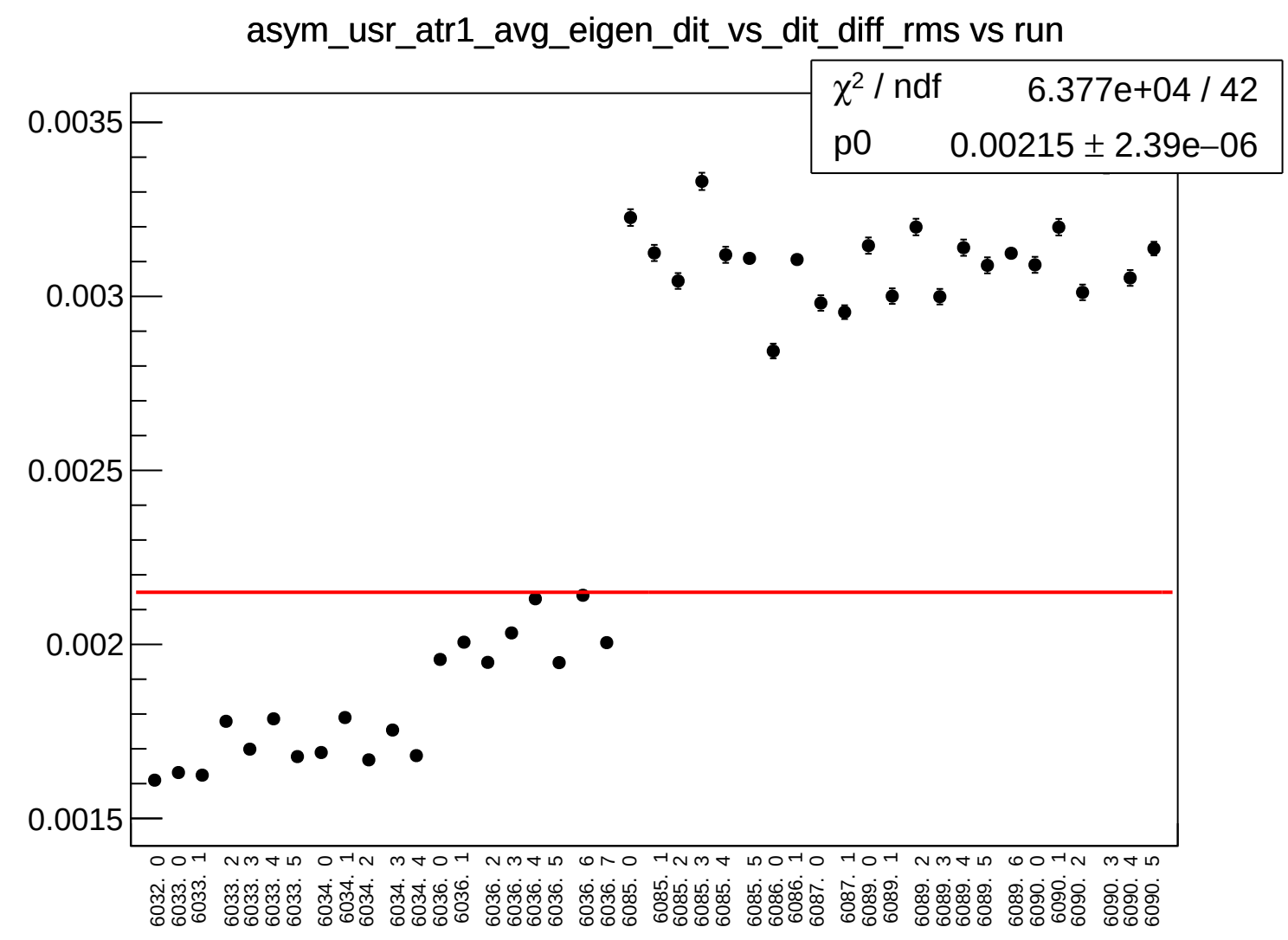




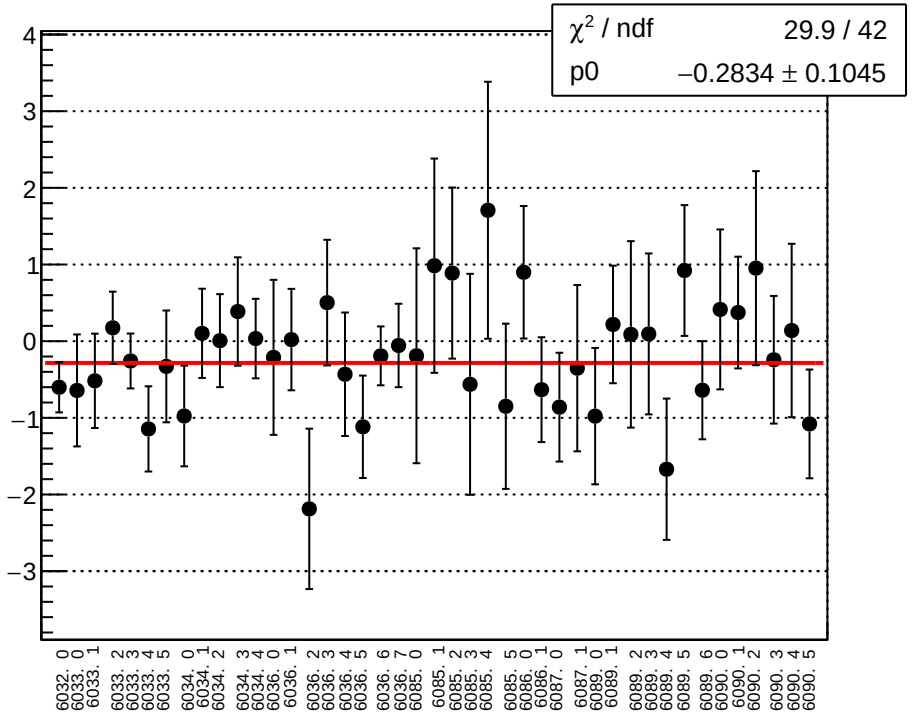


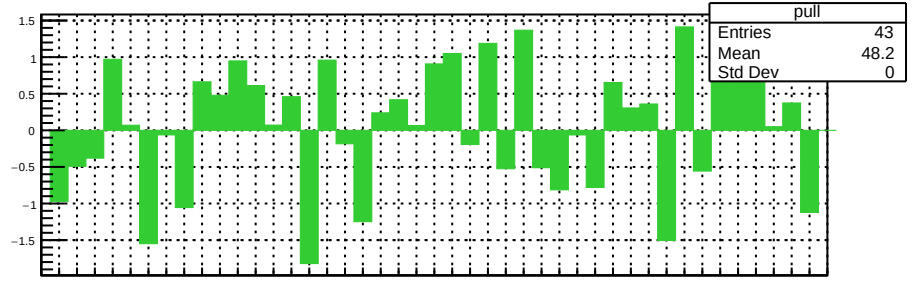

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.046e+05 / 42
p0 64.78 ± 0.07389
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

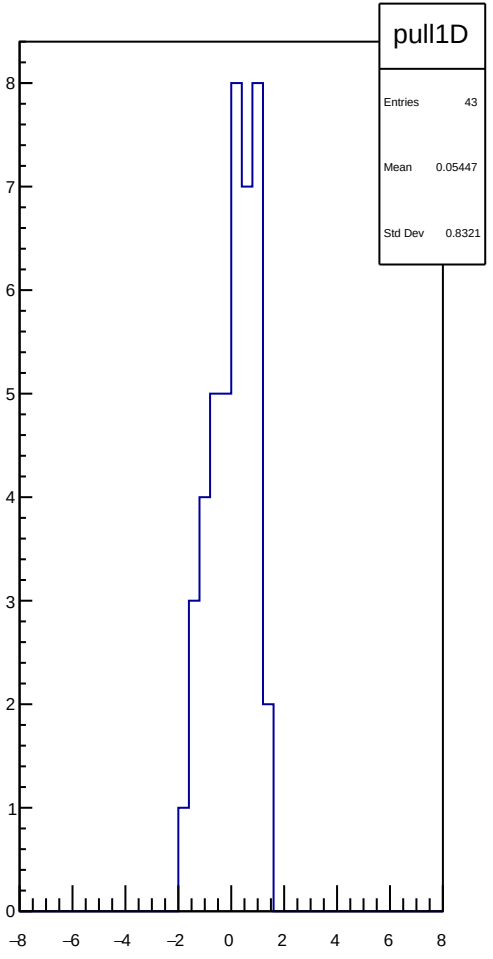

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 42.22 / 42
p0 7.38e−07 ± 3.379e−06
0.1
0.05
0
−0.05
−0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 50.11
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05855
Std Dev 0.9891
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

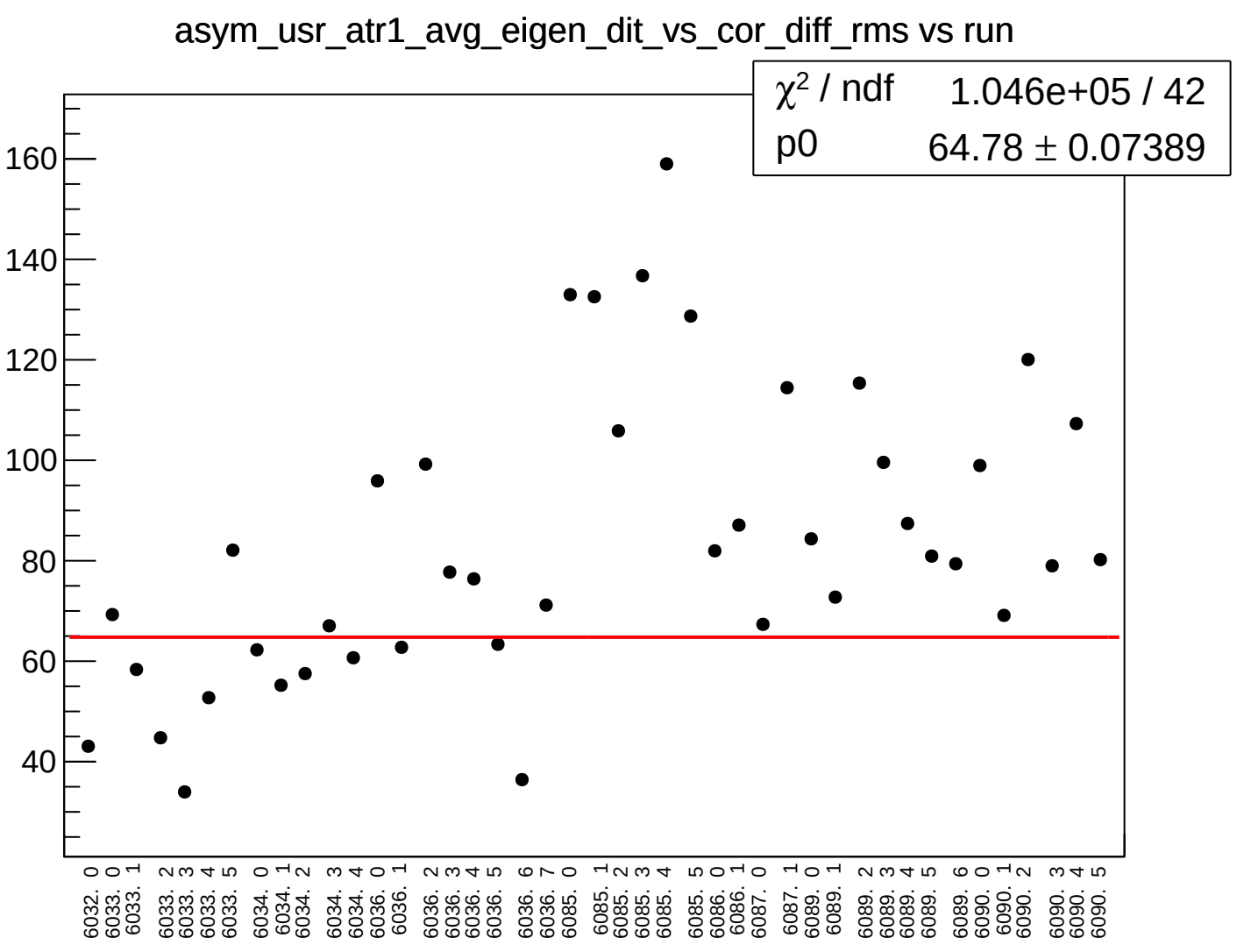

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.377e+04 / 42
p0 0.00215 ± 2.39e−06
0.0035
0.003
0.0025
0.002
0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

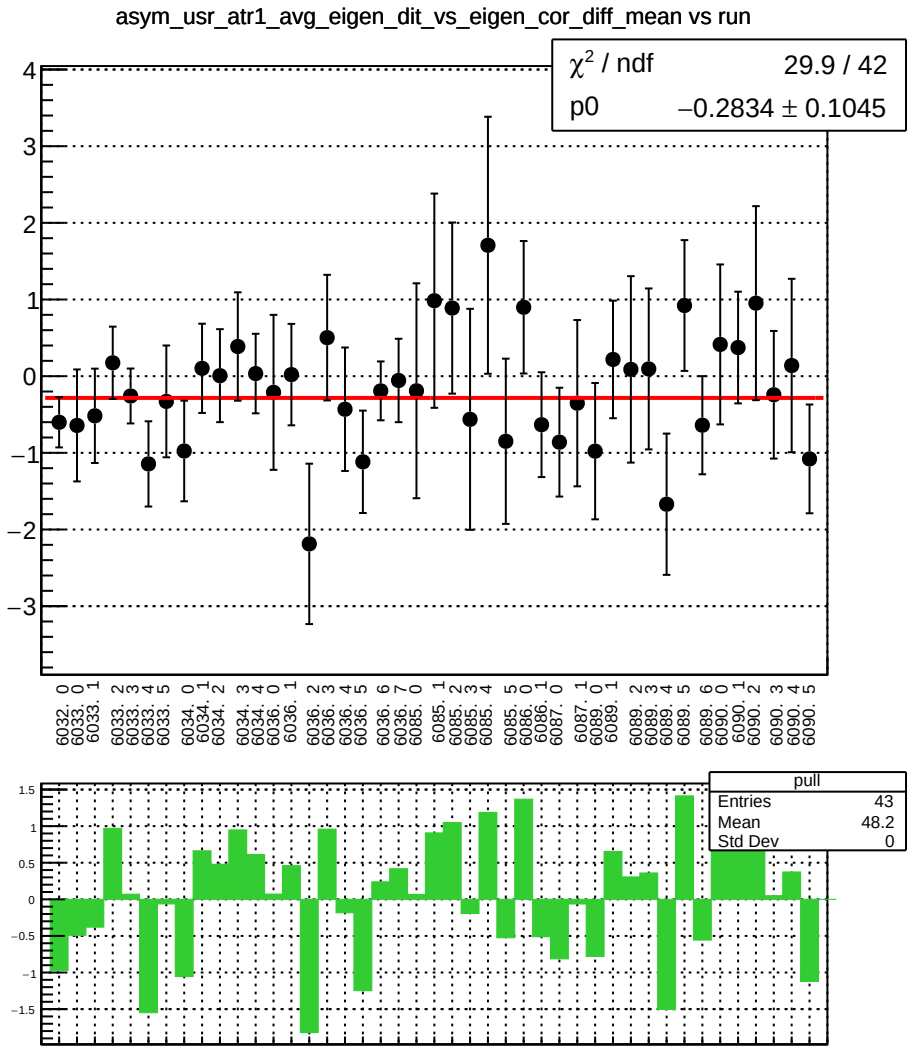
asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run

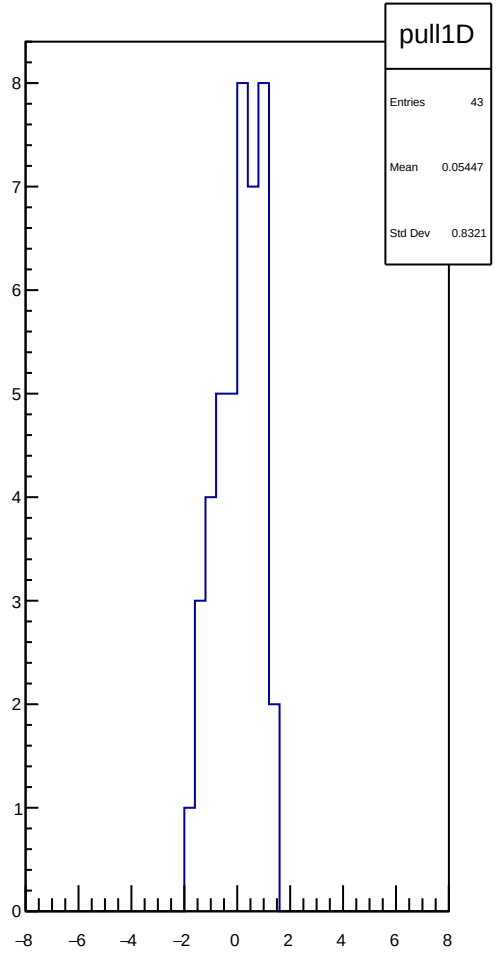


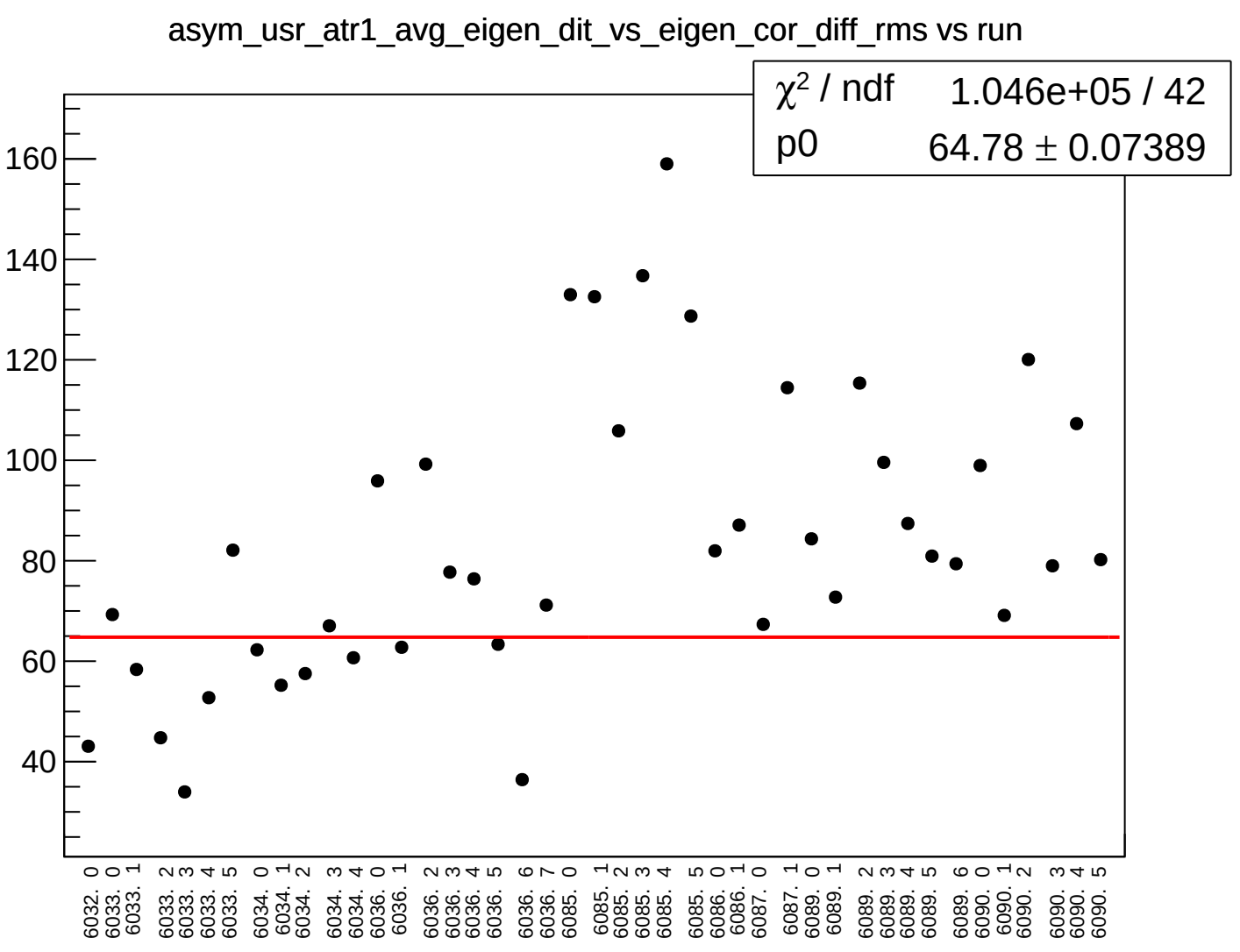


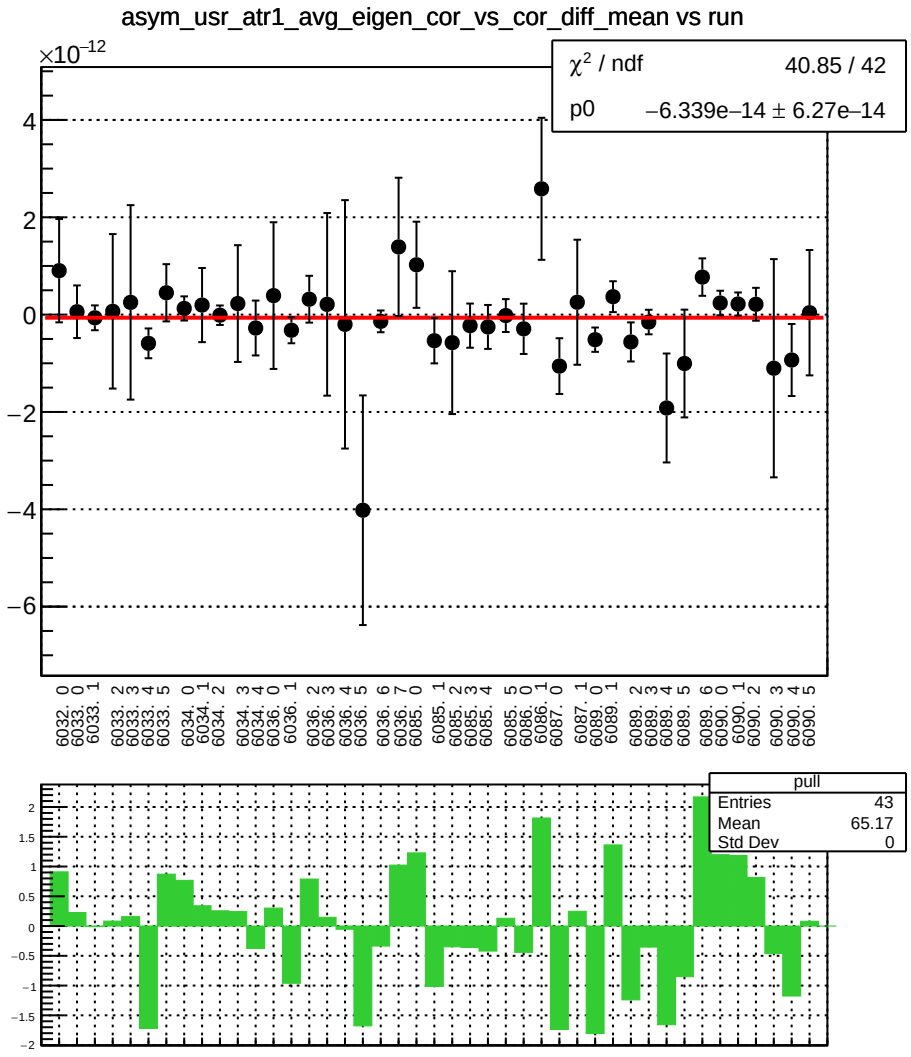


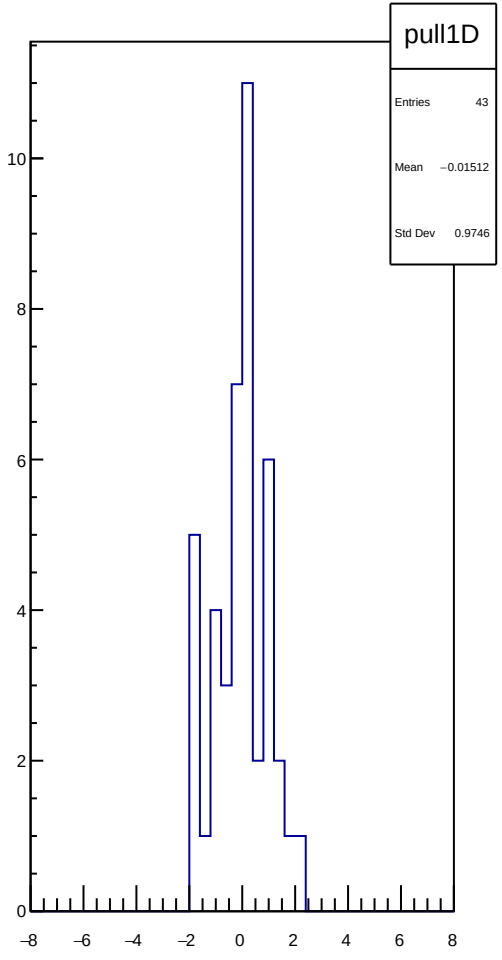

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.046e+05 / 42
p0 64.78 ± 0.07389
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

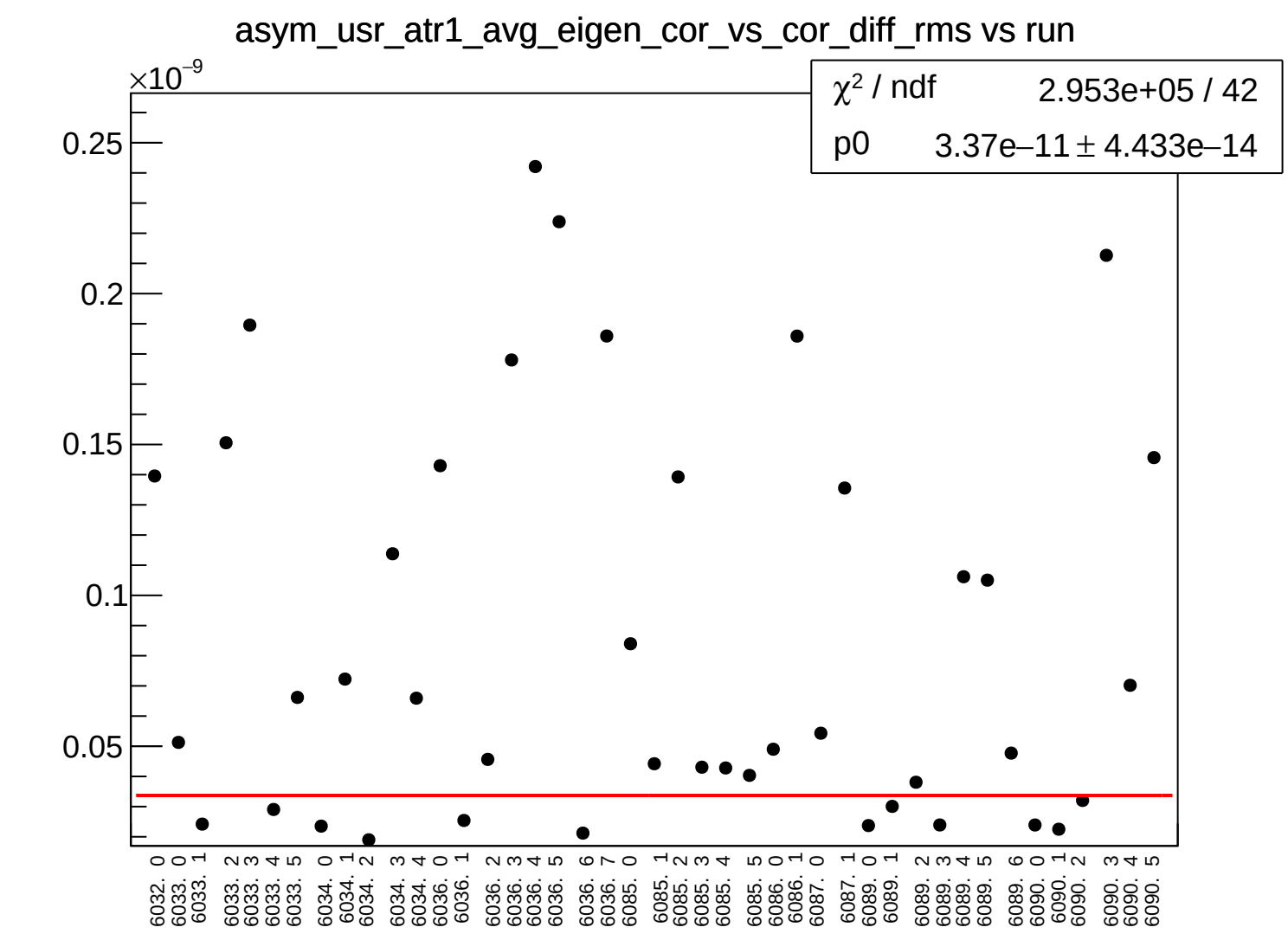

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.9 / 42
p0 −0.2834 ± 0.1045
pull
Entries 43
Mean 48.2
Std Dev 0

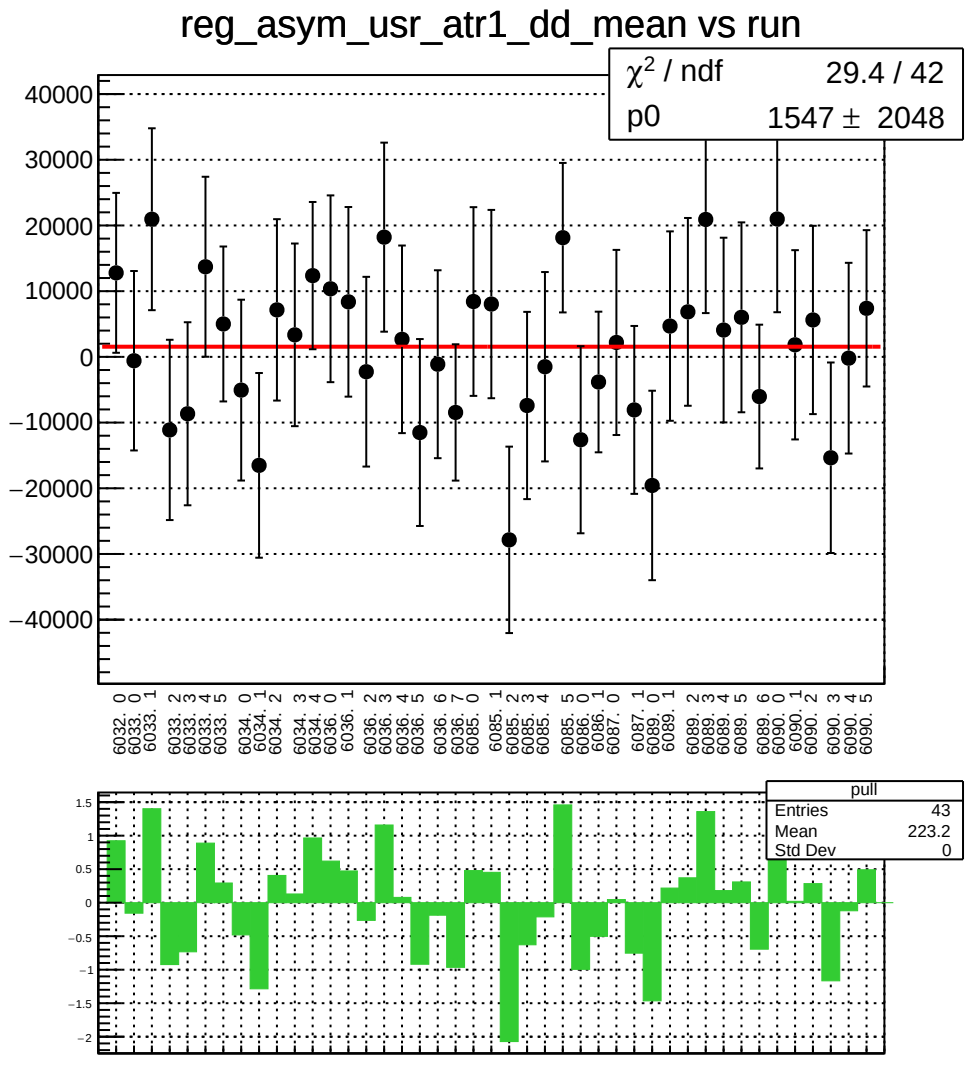

pull1D
Entries 43
Mean 0.05447
Std Dev 0.8321

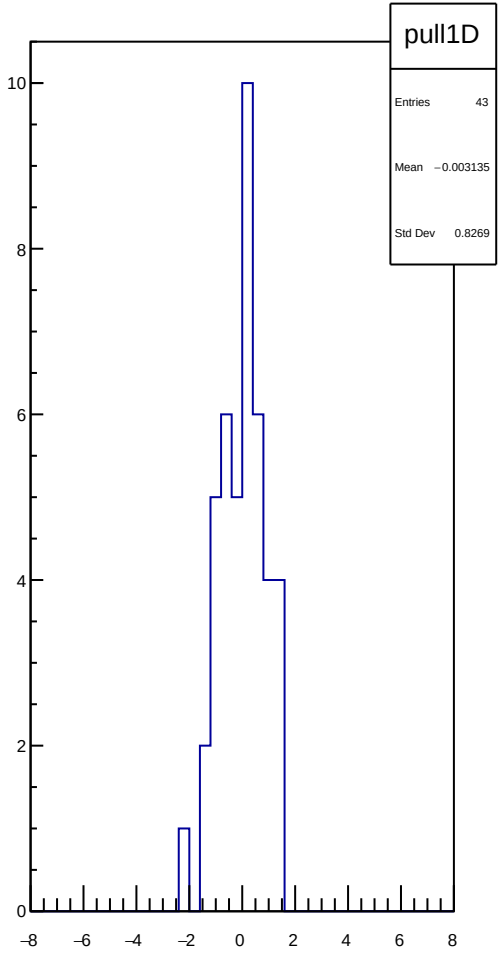

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.046e+05 / 42
p0 64.78 ± 0.07389
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

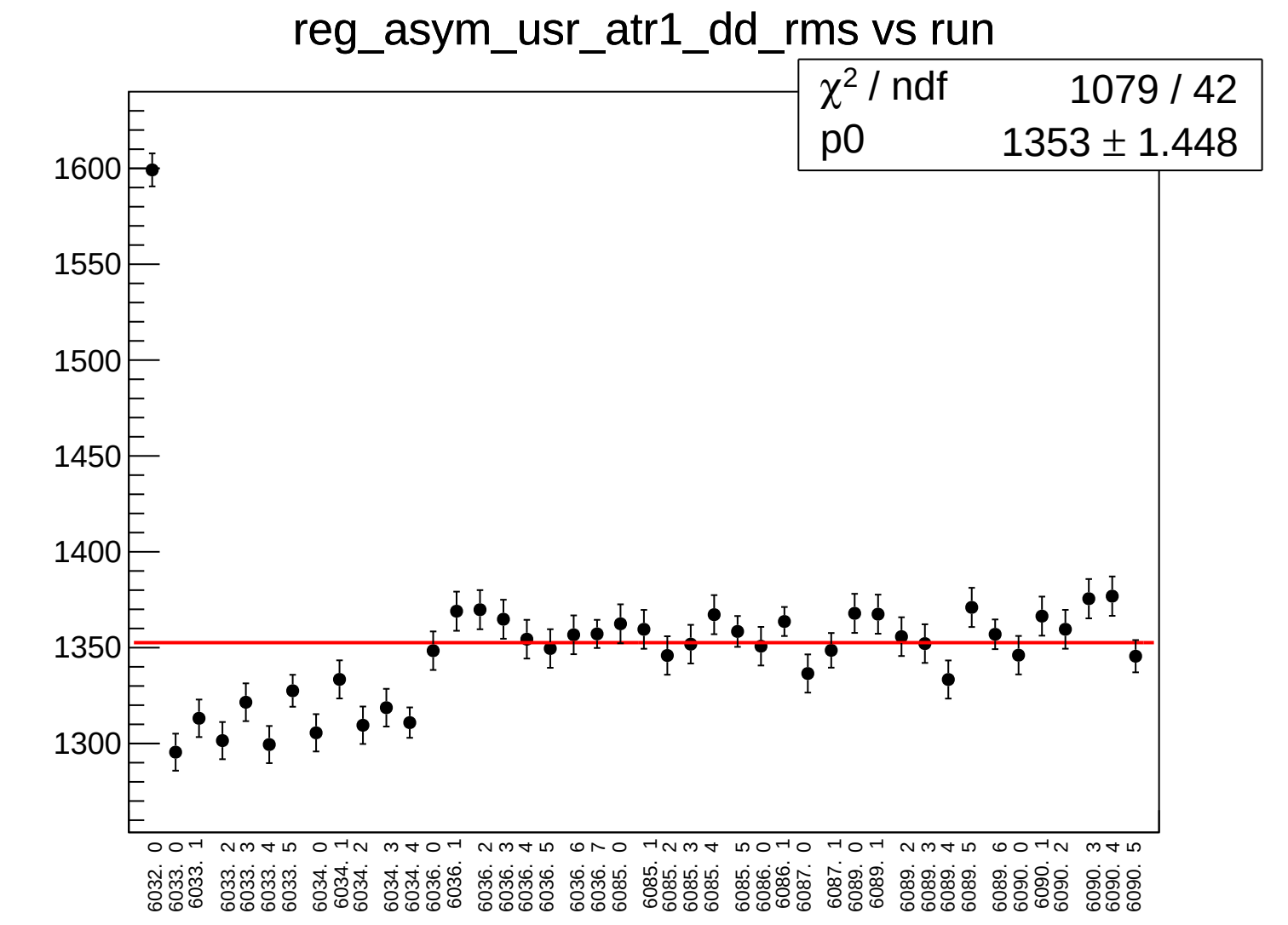

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.85 / 42
p0 −6.339e−14 ± 6.27e−14
pull
Entries 43
Mean 65.17
Std Dev 0

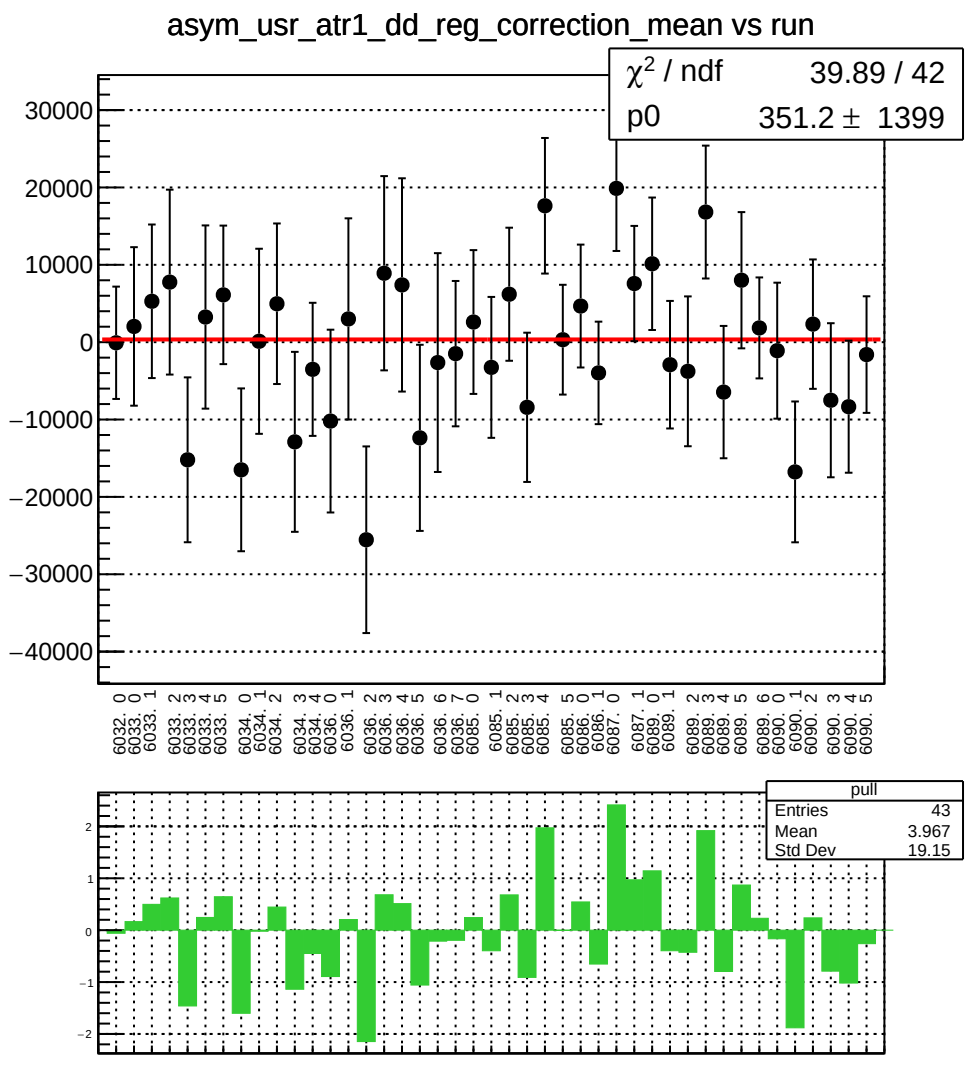

pull1D
Entries 43
Mean −0.01512
Std Dev 0.9746

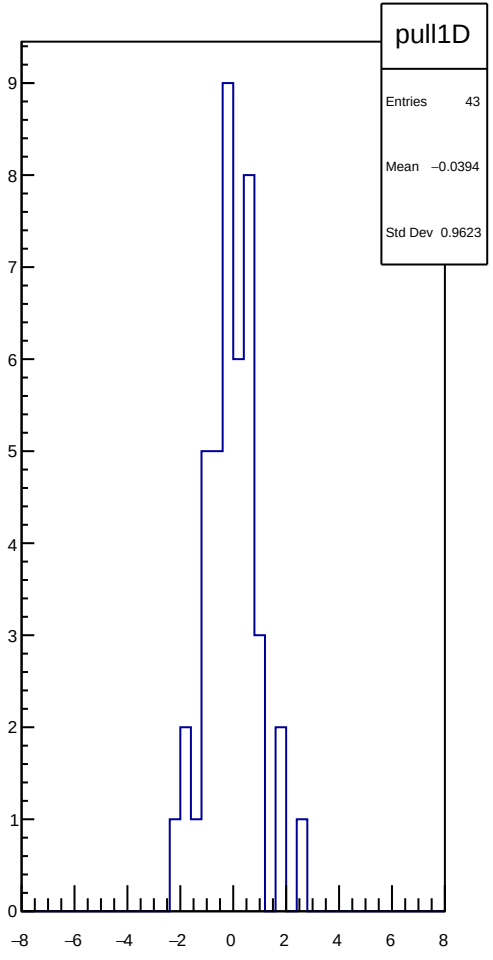

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.953e+05 / 42
p0 3.37e−11 ± 4.433e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

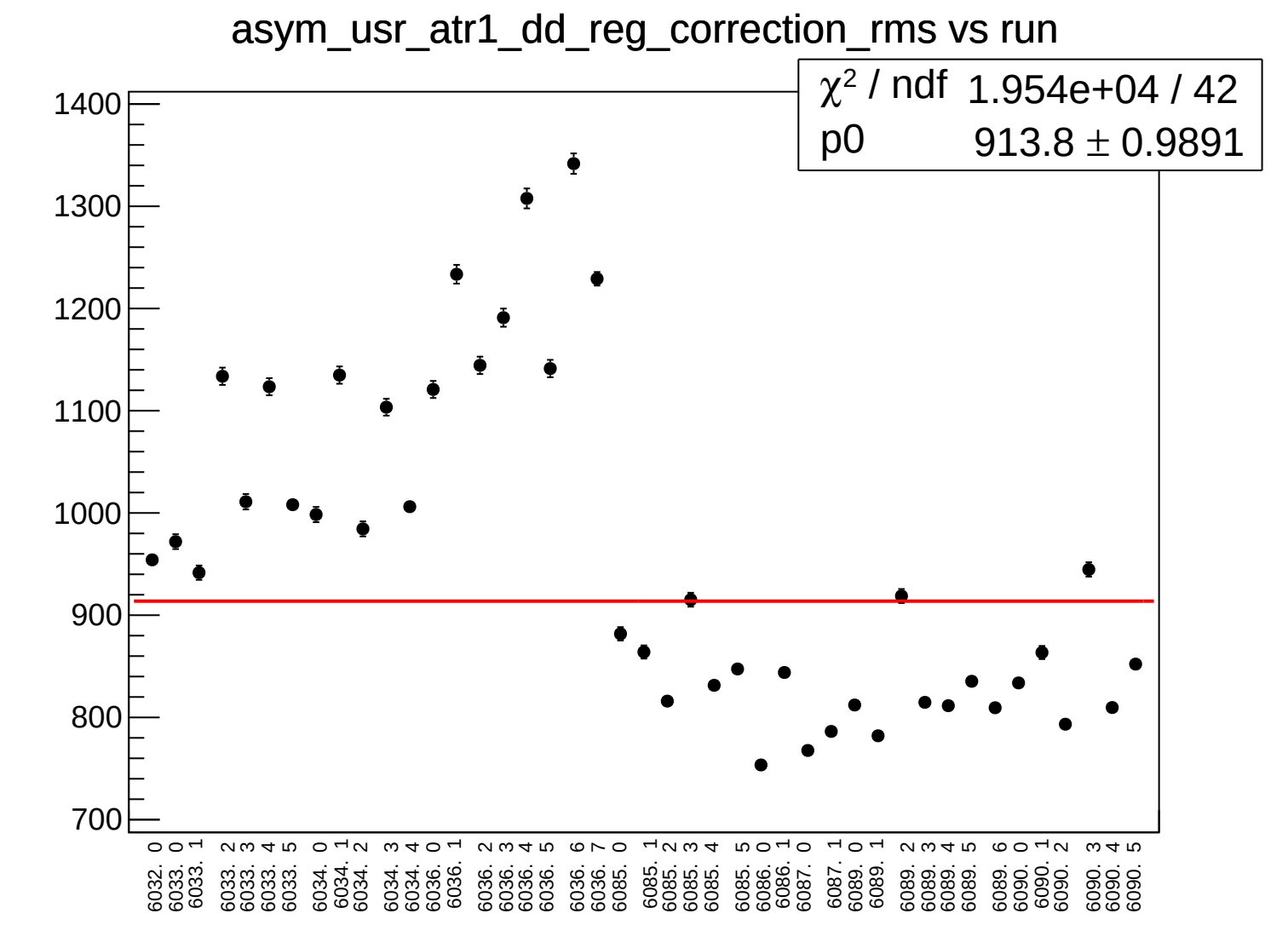

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.4 / 42
p0 1547 ± 2048
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 223.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

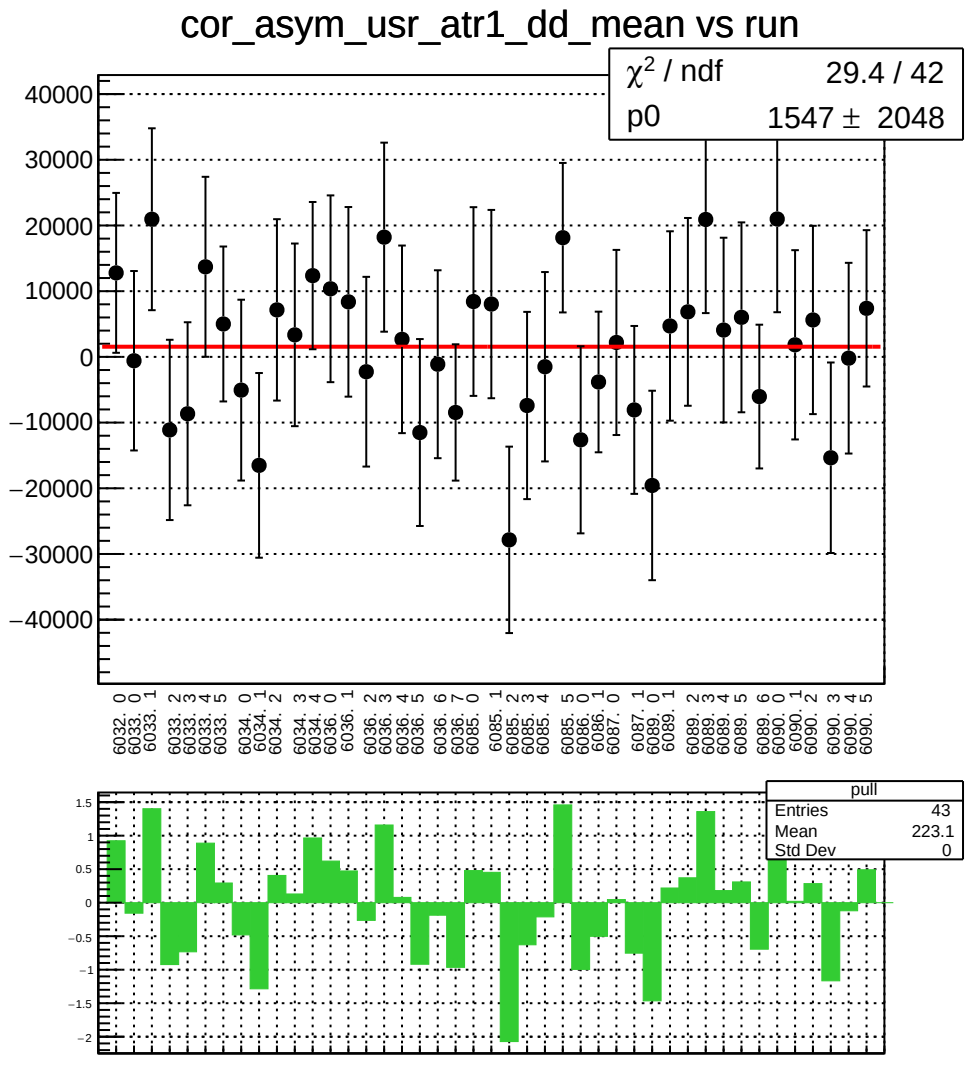

pull1D
Entries 43
Mean −0.003135
Std Dev 0.8269
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

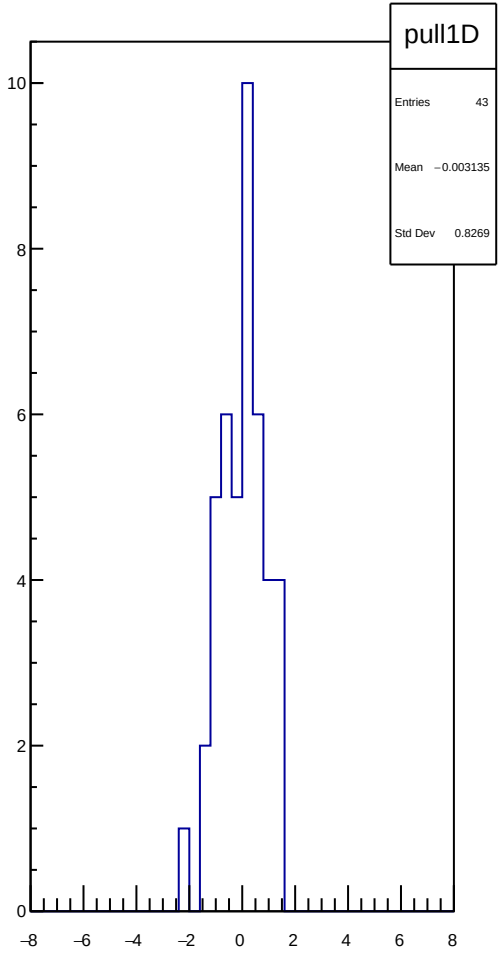

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 1079 / 42
p0 1353 ± 1.448
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

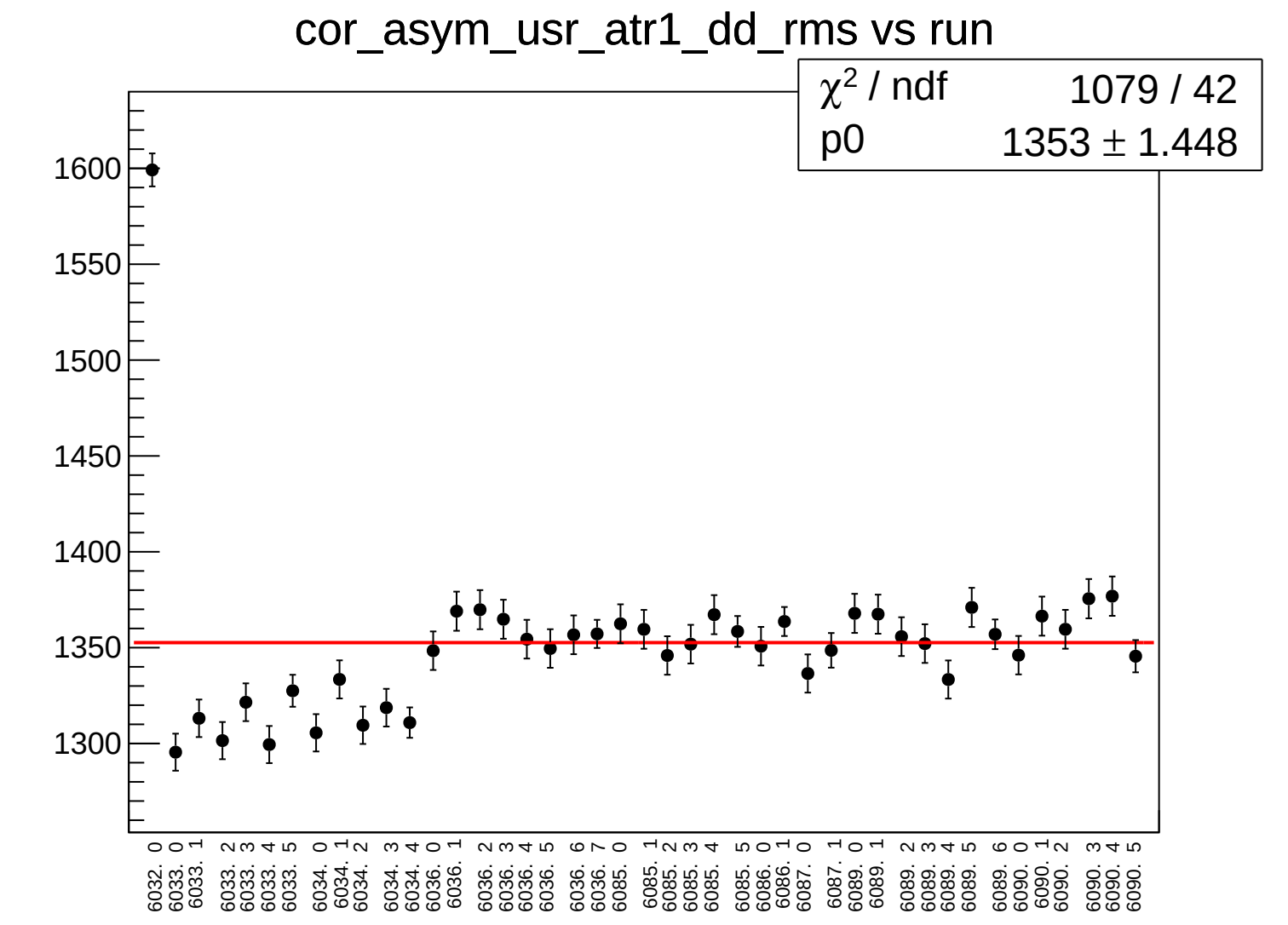

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 39.89 / 42
p0 351.2 ± 1399
pull
Entries 43
Mean 3.967
Std Dev 19.15

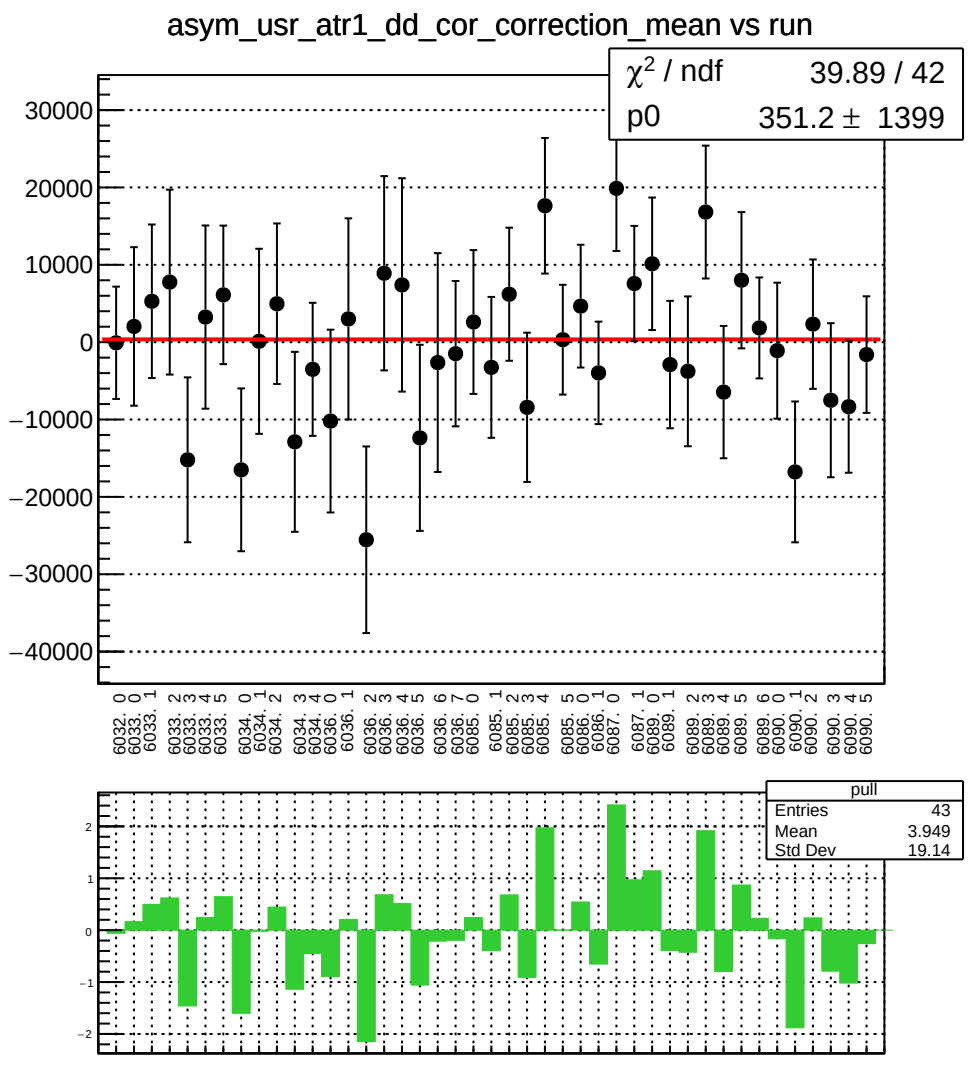

pull1D
Entries 43
Mean −0.0394
Std Dev 0.9623

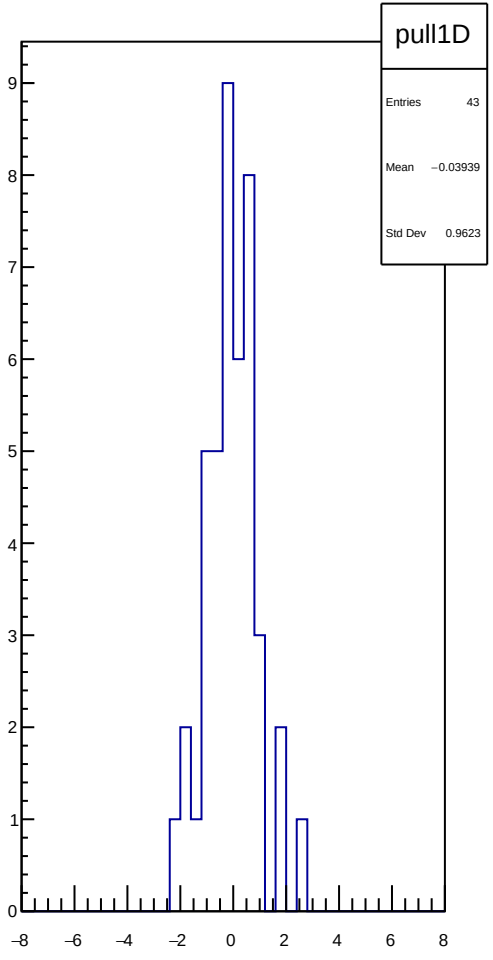

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.954e+04 / 42
p0 913.8 ± 0.9891
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

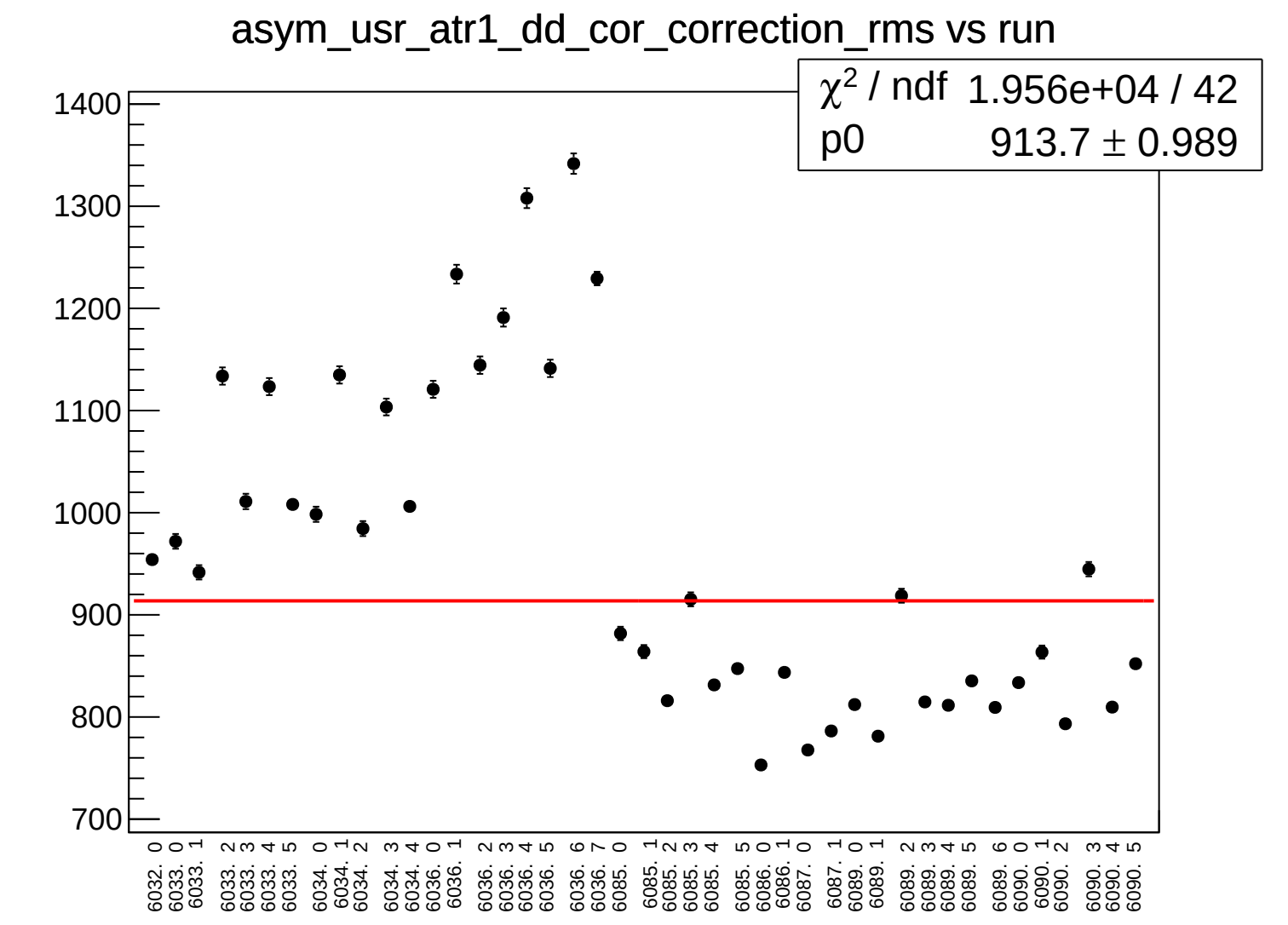

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.4 / 42
p0 1547 ± 2048
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 223.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

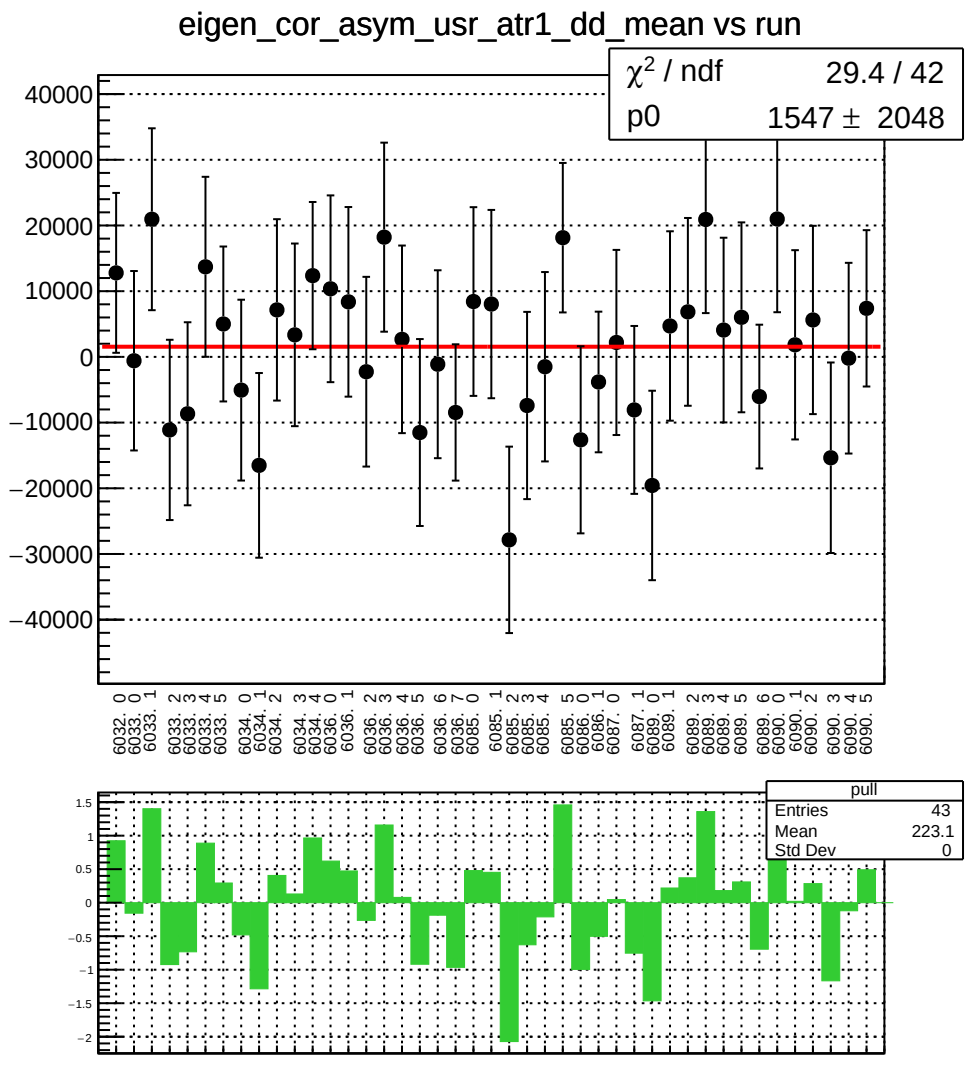

pull1D
Entries 43
Mean −0.003135
Std Dev 0.8269
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

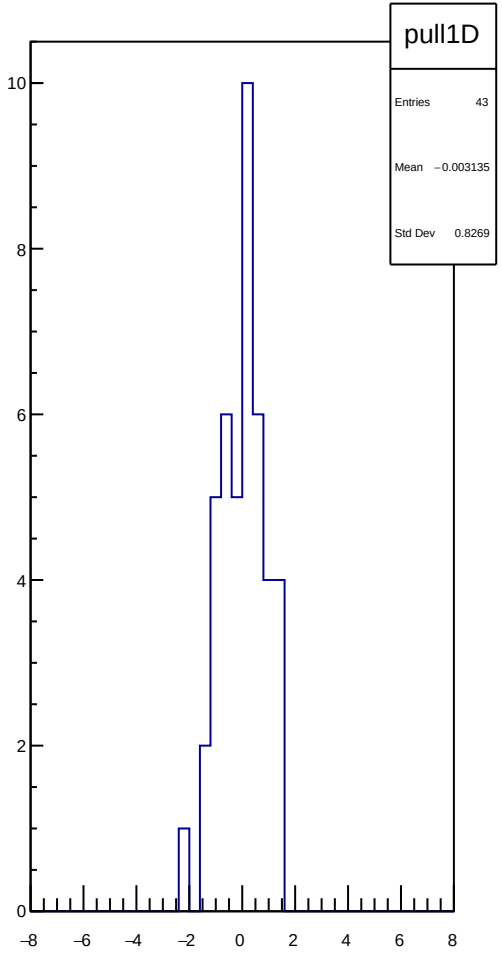

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 1079 / 42
p0 1353 ± 1.448
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

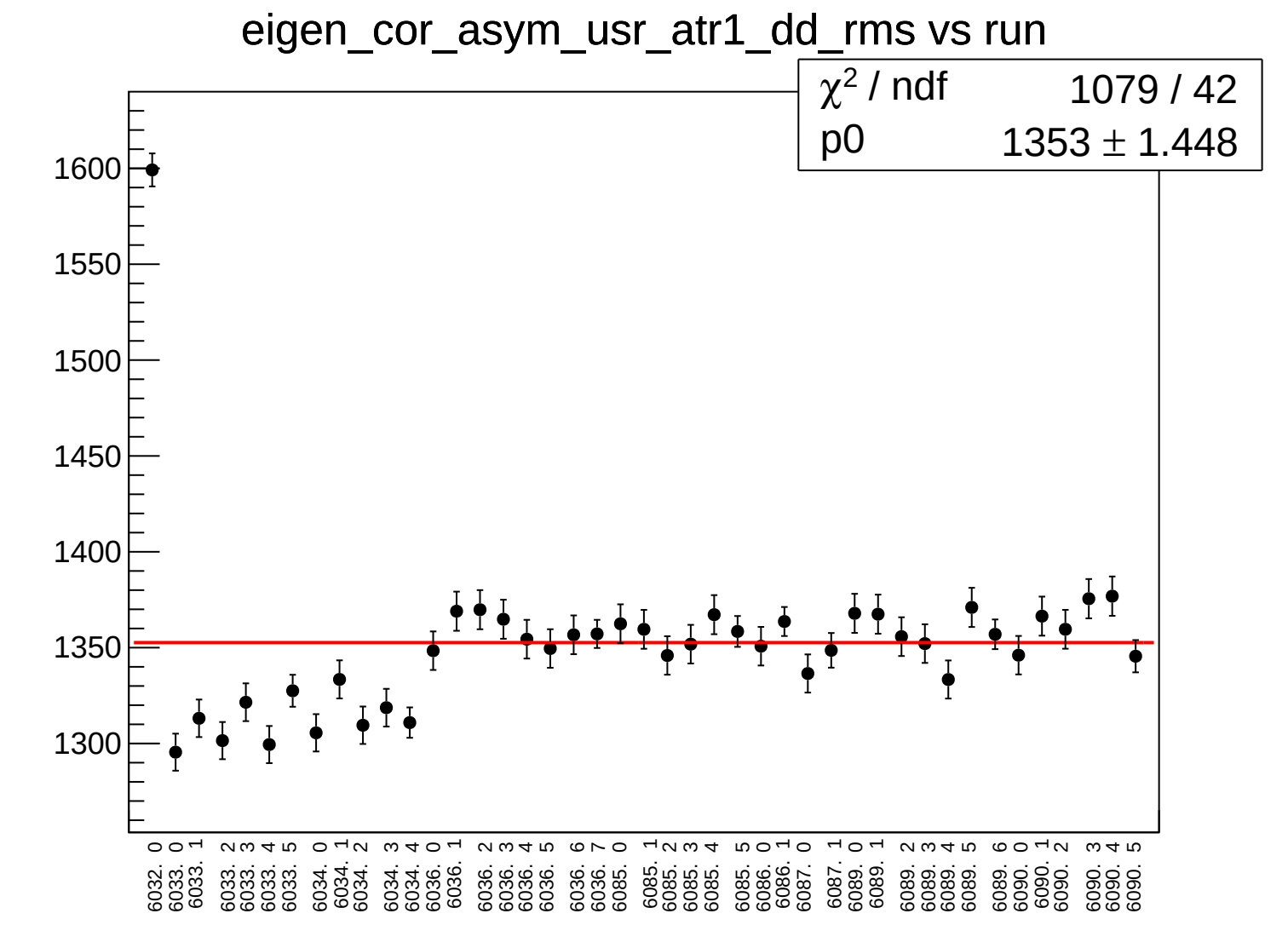

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 39.89 / 42
p0 351.2 ± 1399
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.949
Std Dev 19.14
2
1
0
−1
−2

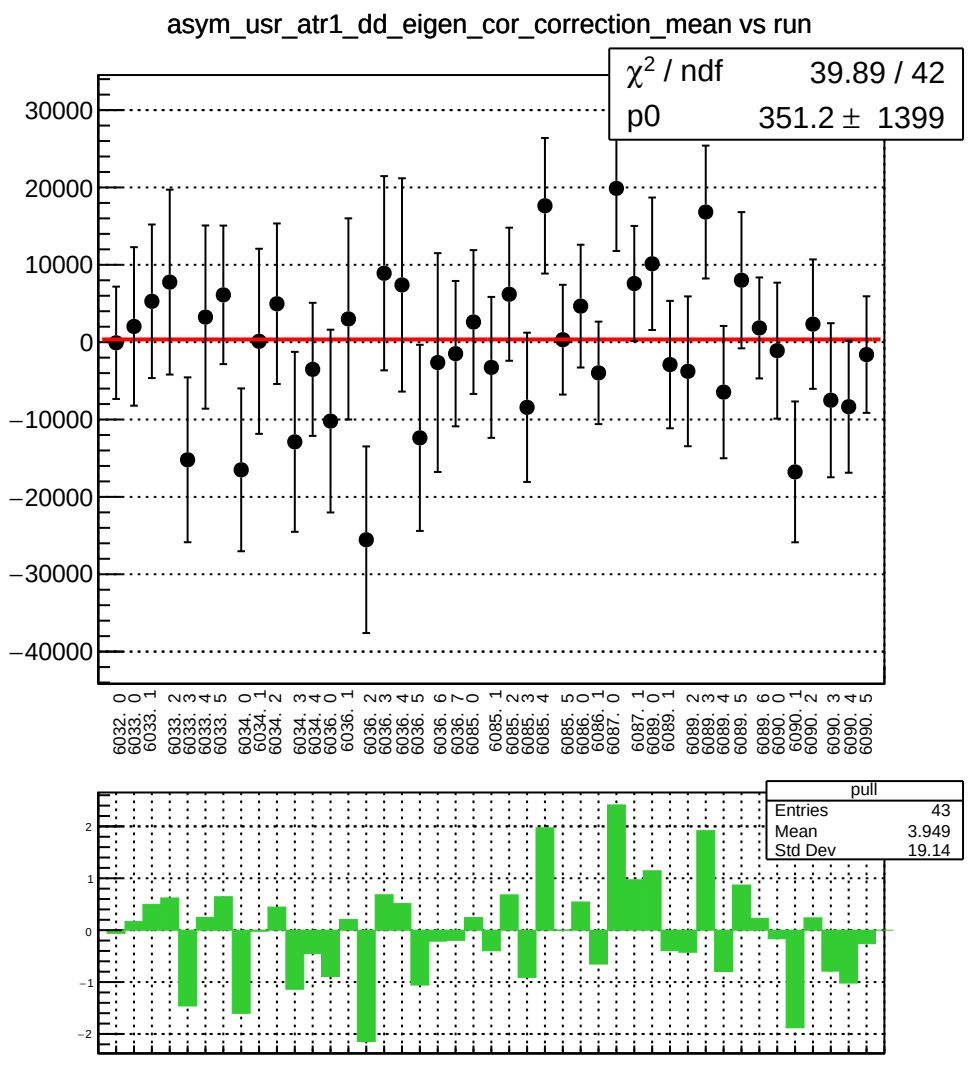

pull1D
Entries 43
Mean −0.03939
Std Dev 0.9623
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

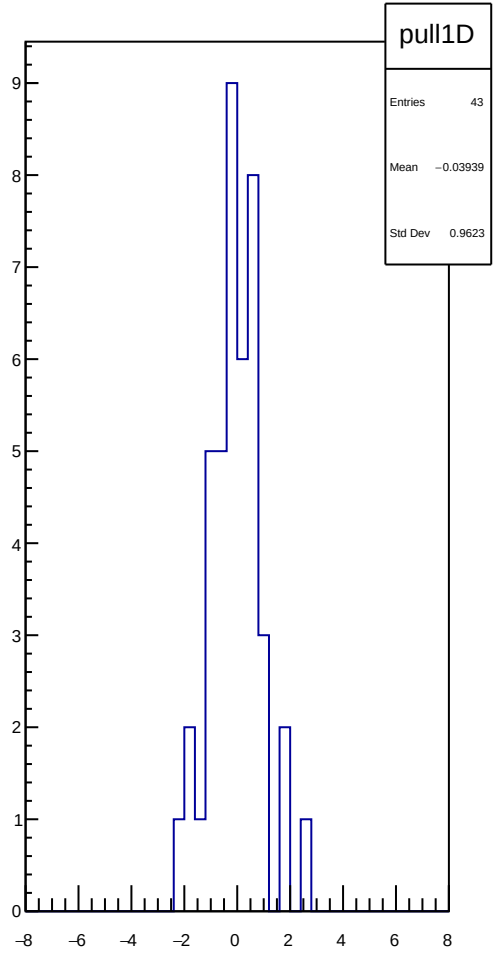

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.956e+04 / 42
p0 913.7 ± 0.989
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

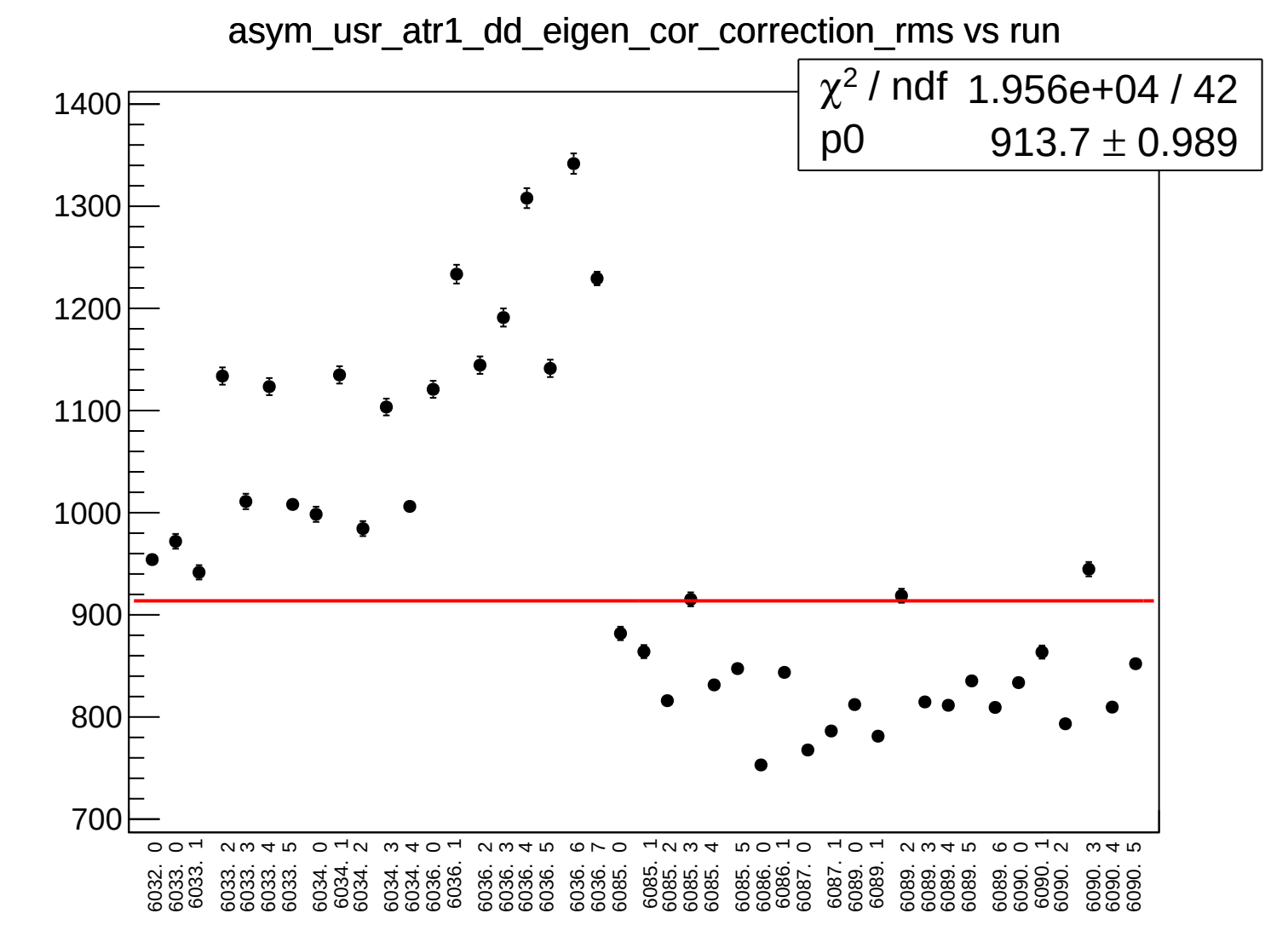

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.4 / 42
p0 1547 ± 2048
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 223.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

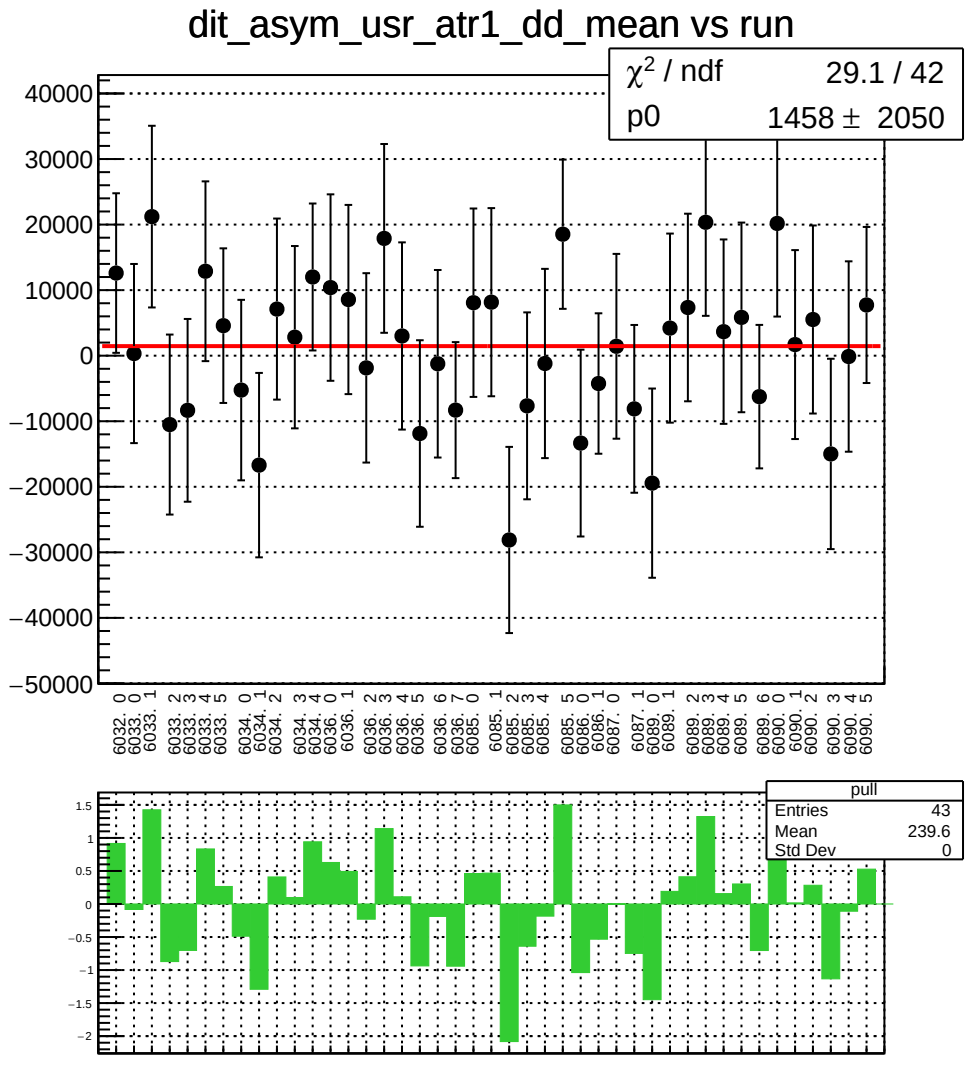

pull1D
Entries 43
Mean −0.003135
Std Dev 0.8269
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

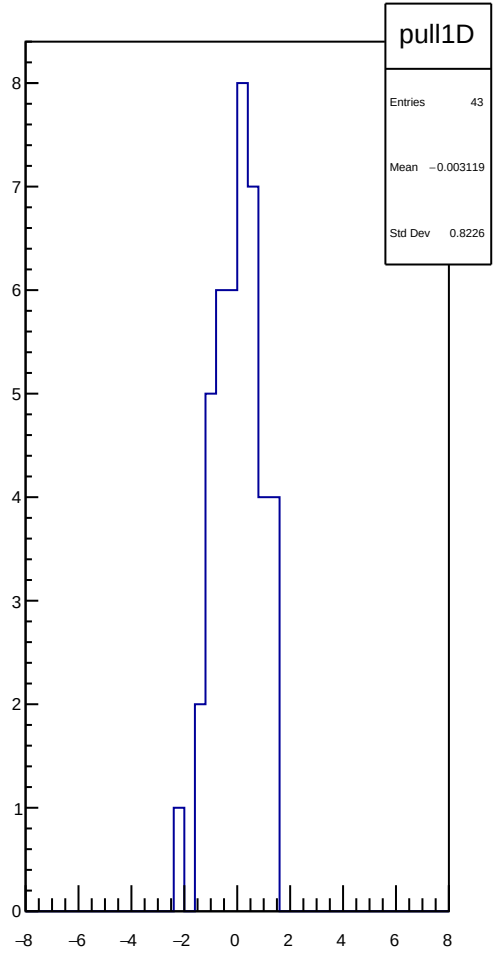

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 1079 / 42
p0 1353 ± 1.448
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

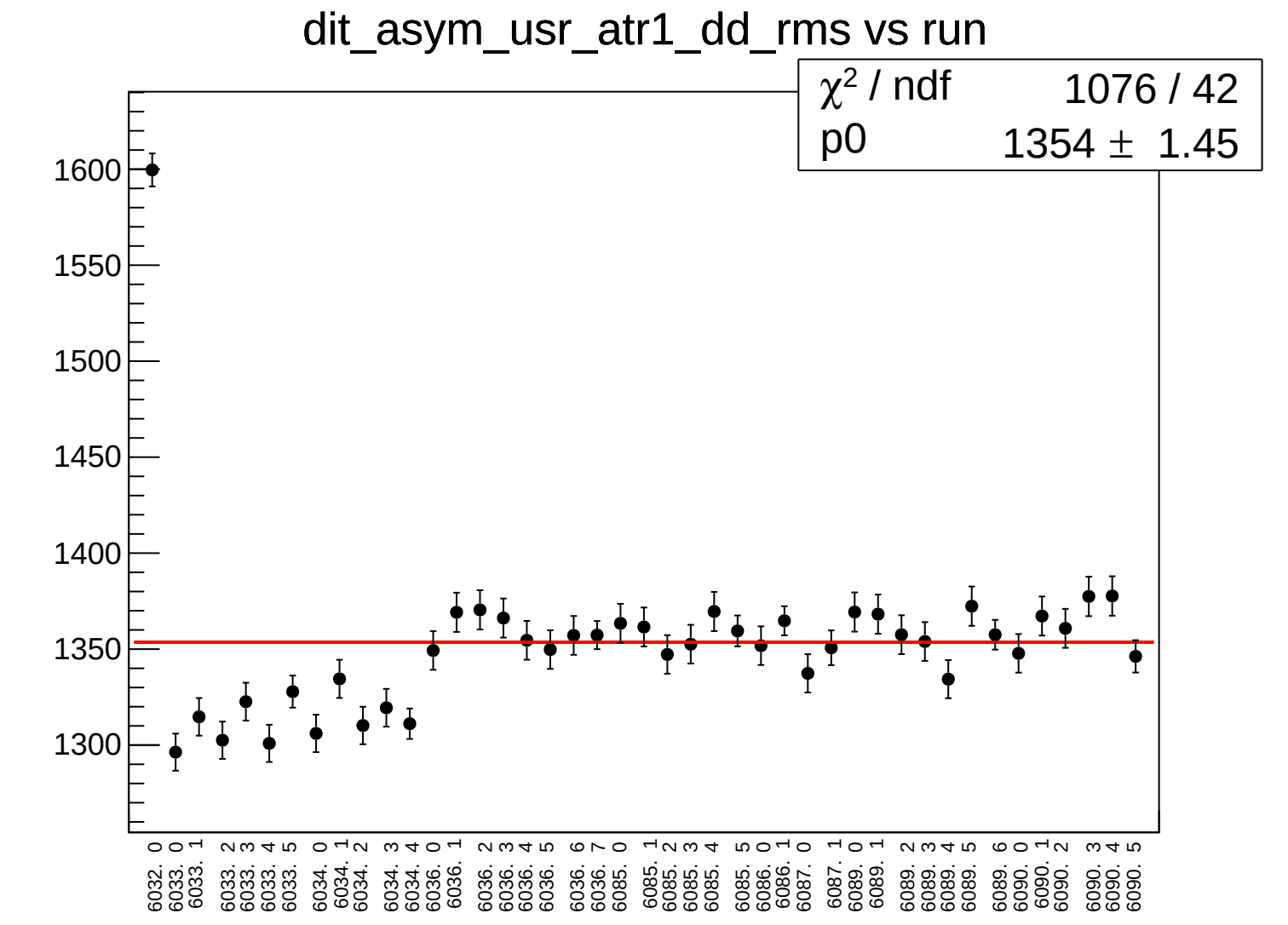

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.89 / 42
p0 351.2 ± 1399
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.949
Std Dev 19.14
2
1
0
−1
−2

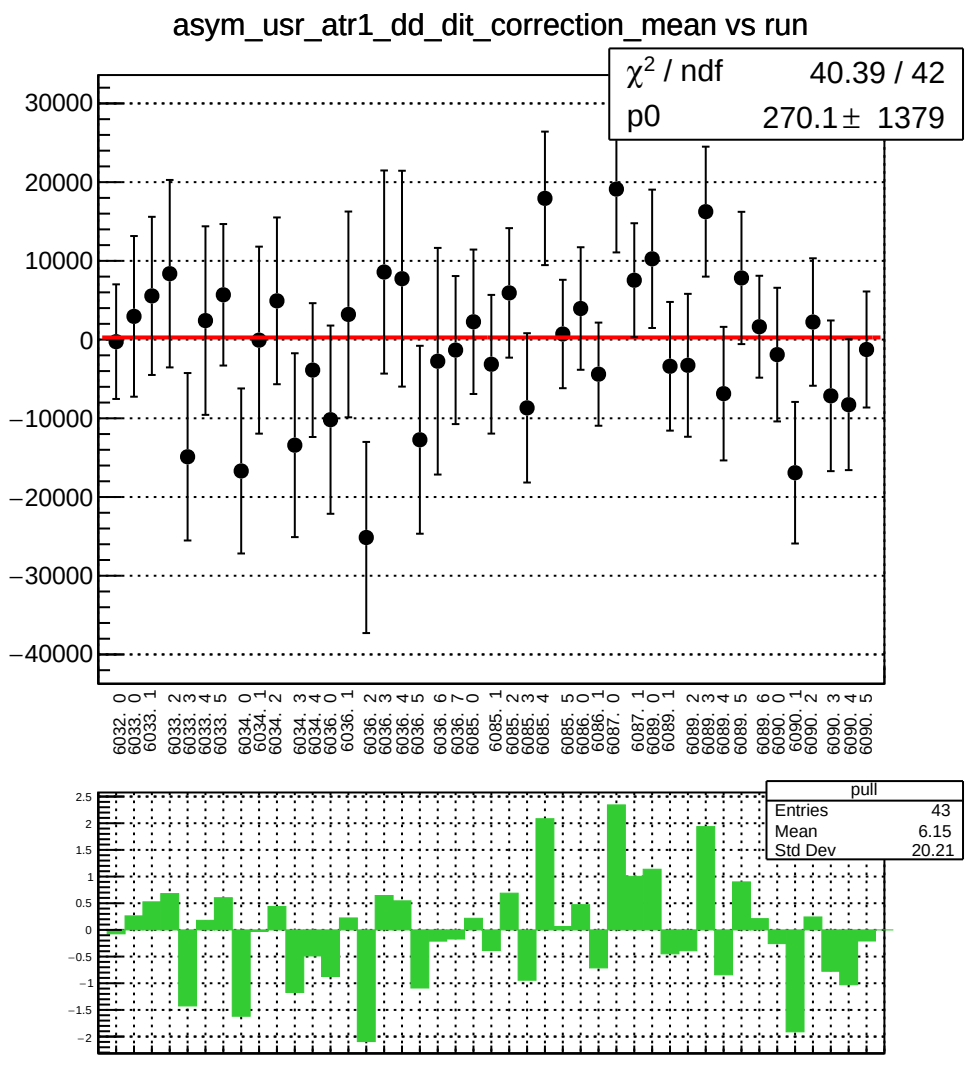

pull1D
Entries 43
Mean −0.03939
Std Dev 0.9623
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

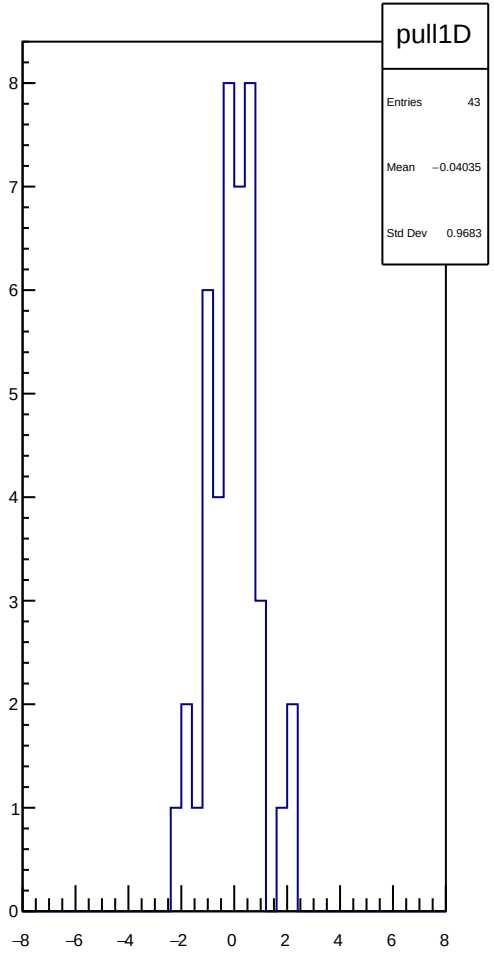

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.956e+04 / 42
p0 913.7 ± 0.989
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

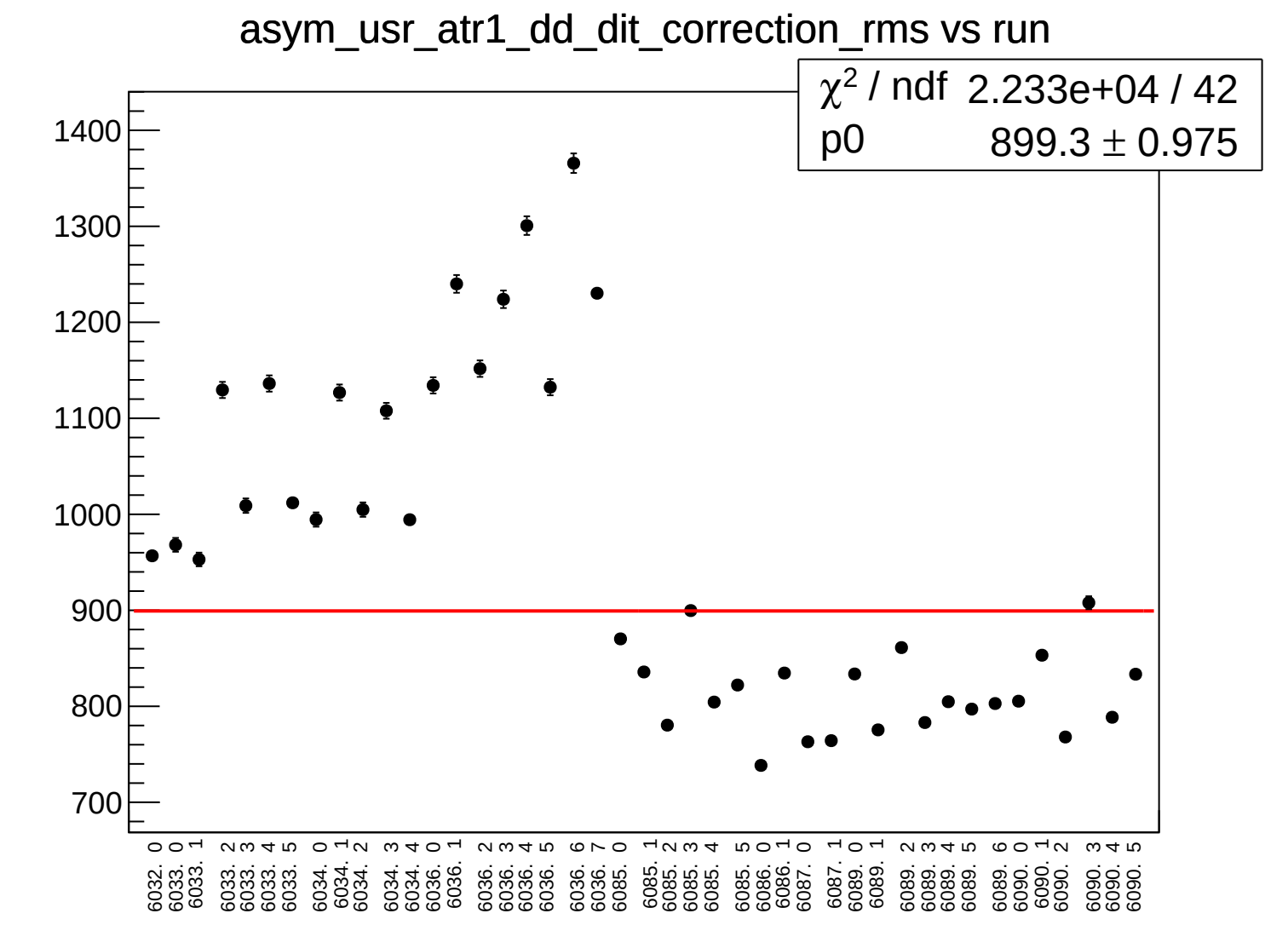

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.1 / 42
p0 1458 ± 2050
pull
Entries 43
Mean 239.6
Std Dev 0

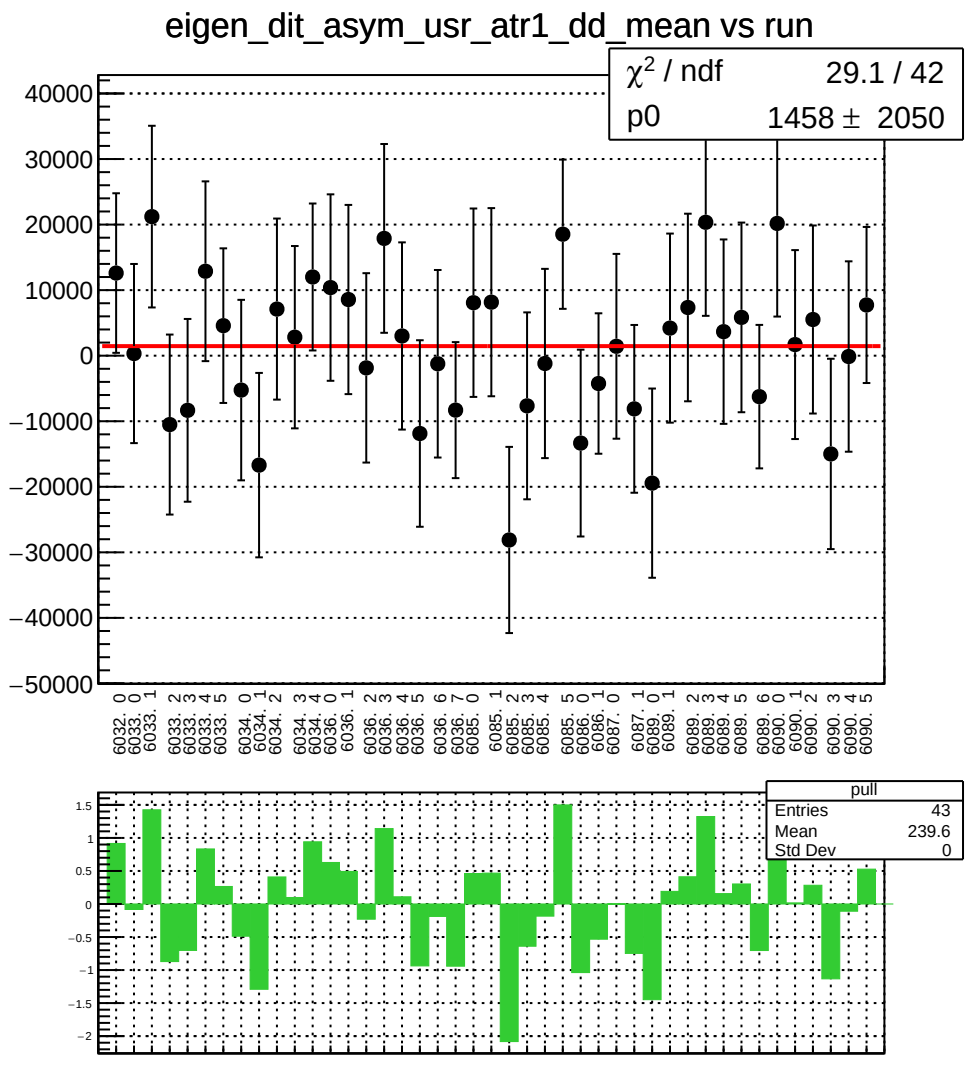

pull1D
Entries 43
Mean −0.003119
Std Dev 0.8226

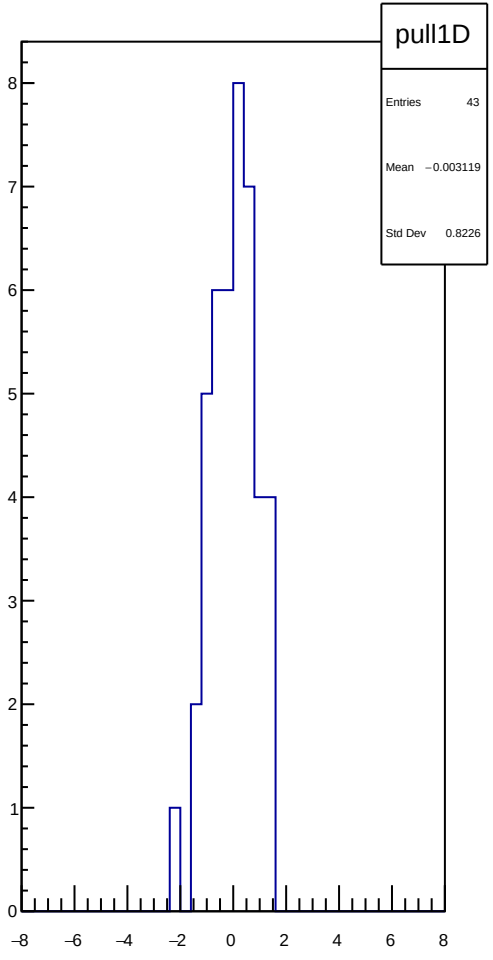

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 1076 / 42
p0 1354 ± 1.45
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

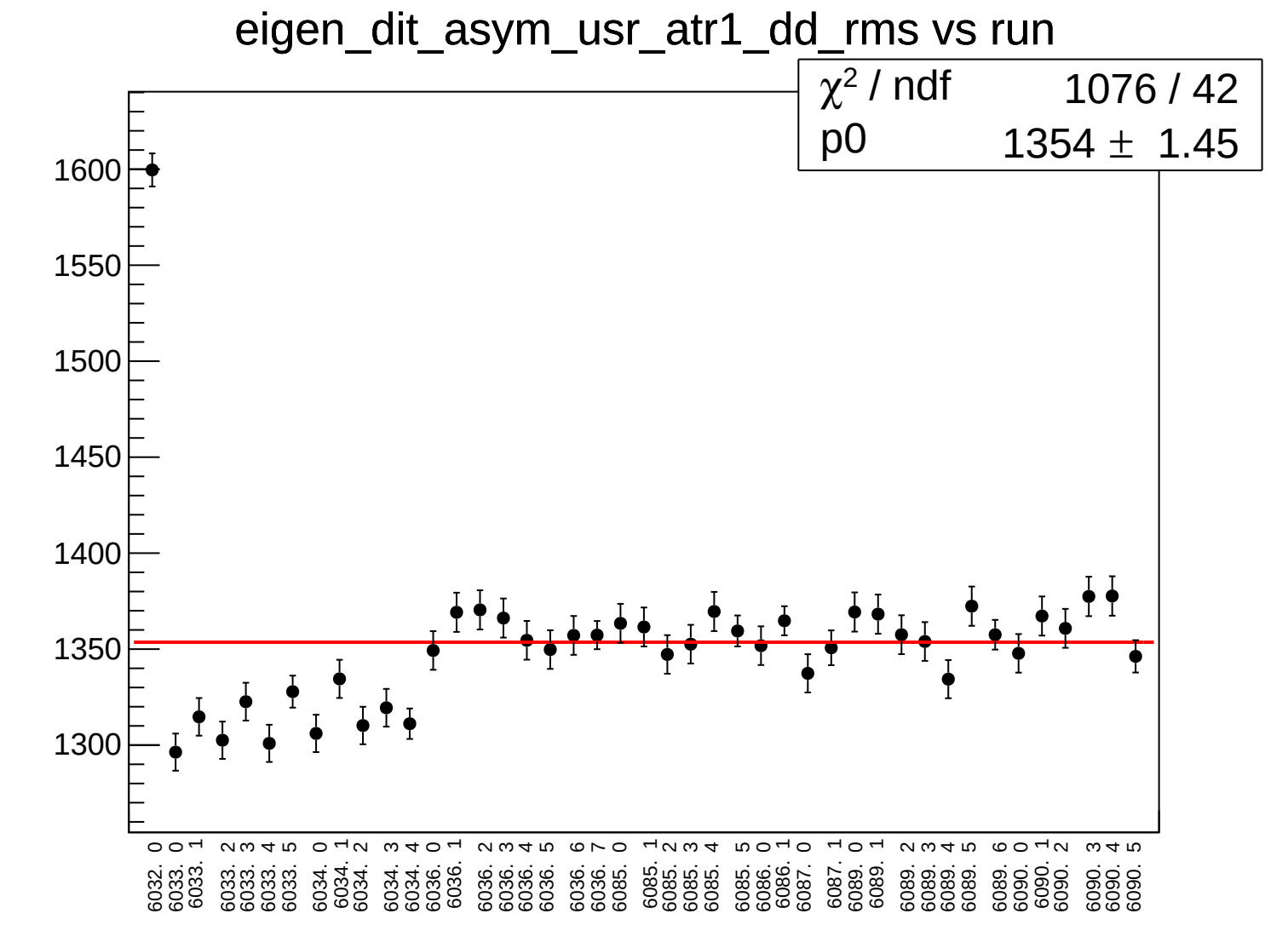

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 40.39 / 42
p0 270.1± 1379
pull
Entries 43
Mean 6.15
Std Dev 20.21

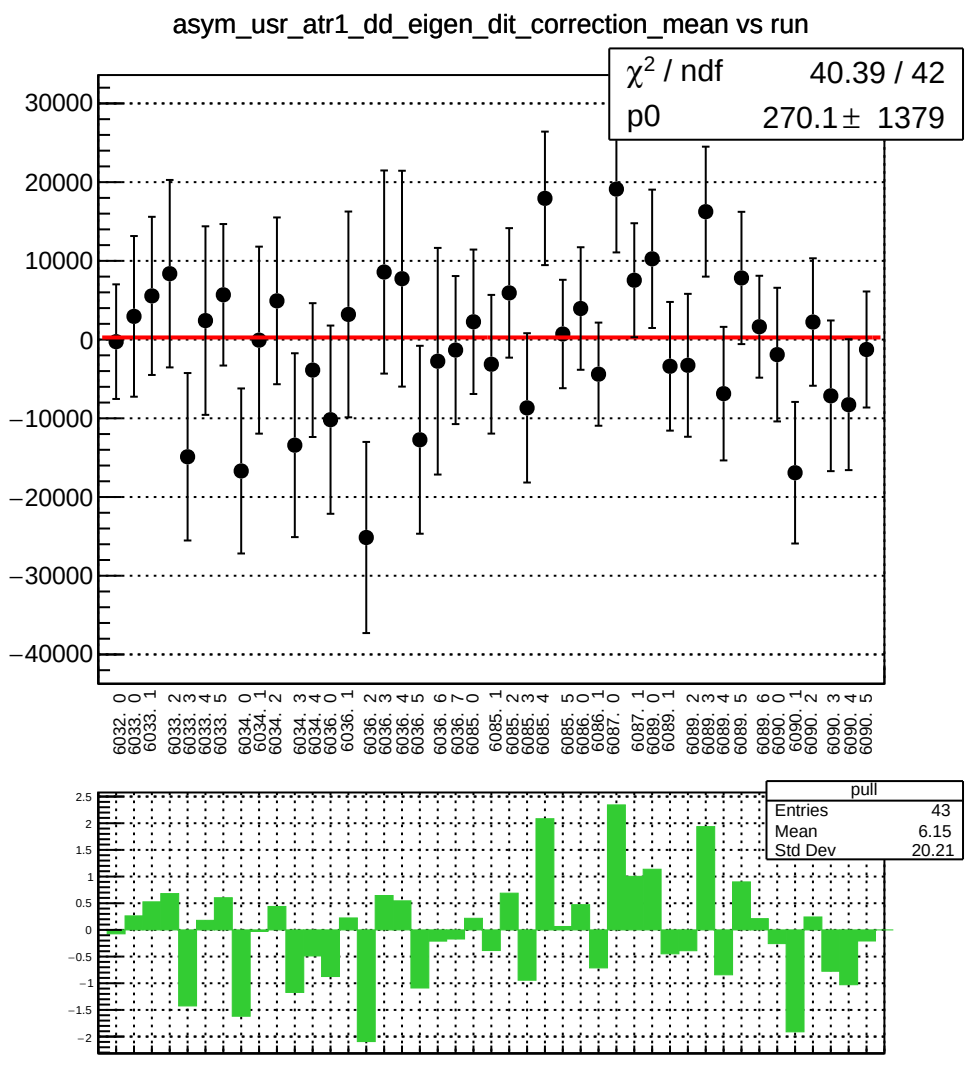

pull1D
Entries 43
Mean −0.04035
Std Dev 0.9683

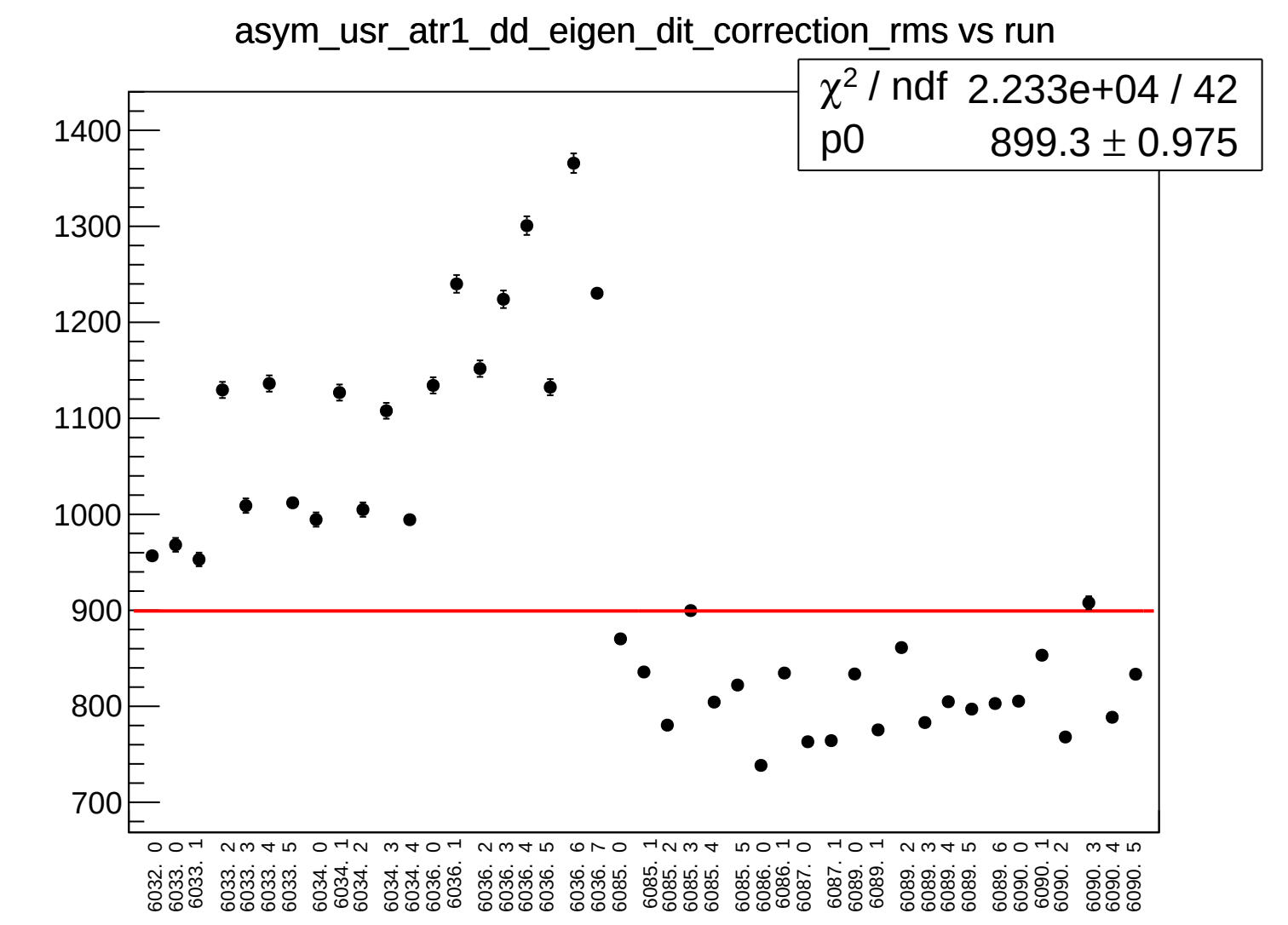

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2.233e+04 / 42
p0 899.3 ± 0.975
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

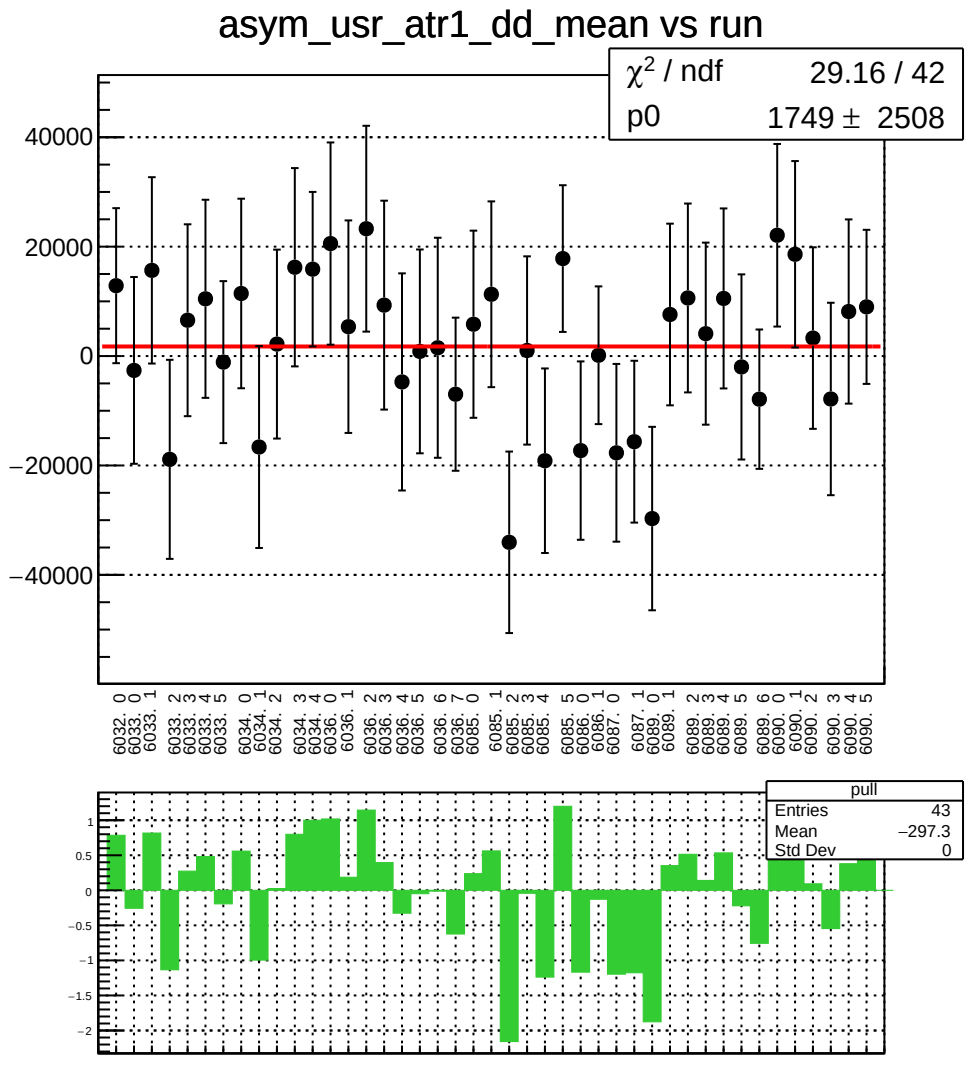

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.1 / 42
p0 1458 ± 2050
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 239.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

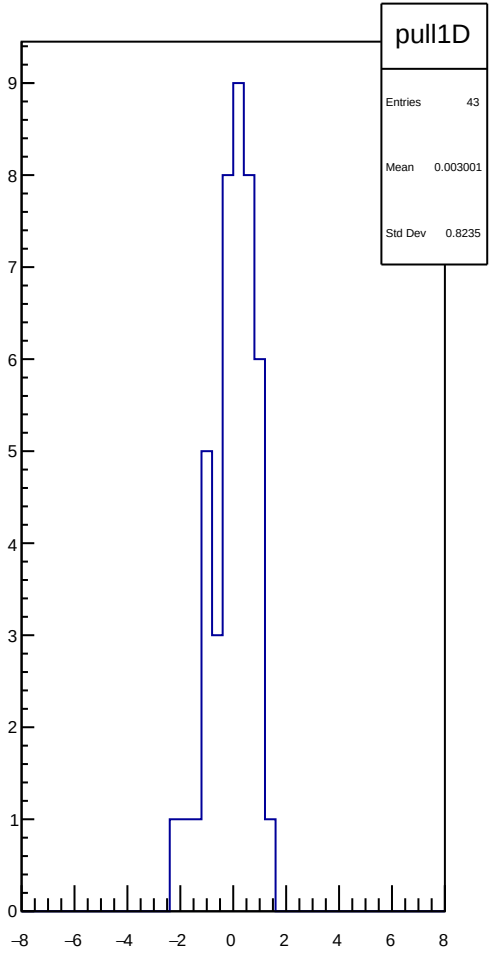

pull1D
Entries 43
Mean −0.003119
Std Dev 0.8226
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

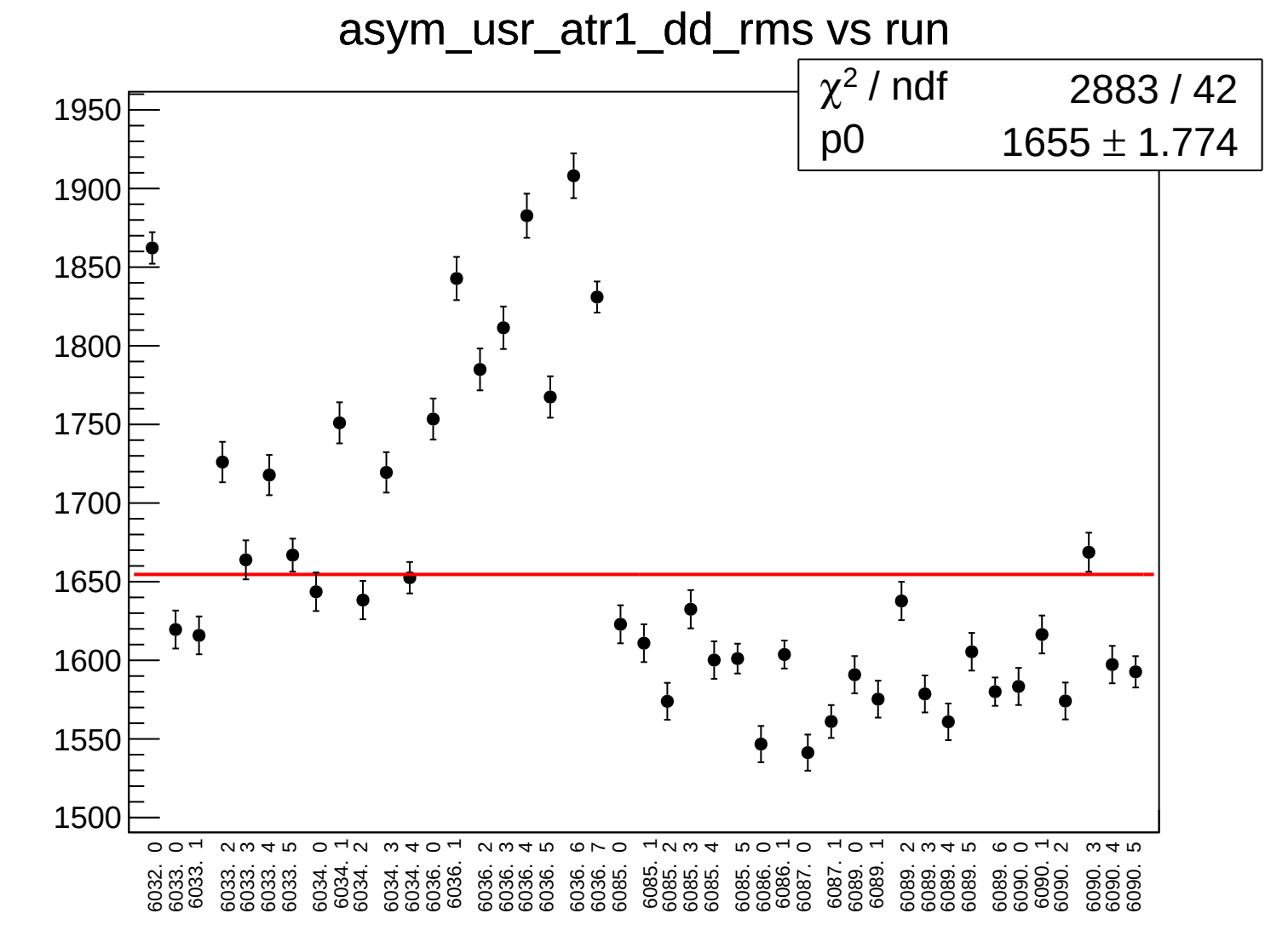

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 1076 / 42
p0 1354 ± 1.45
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

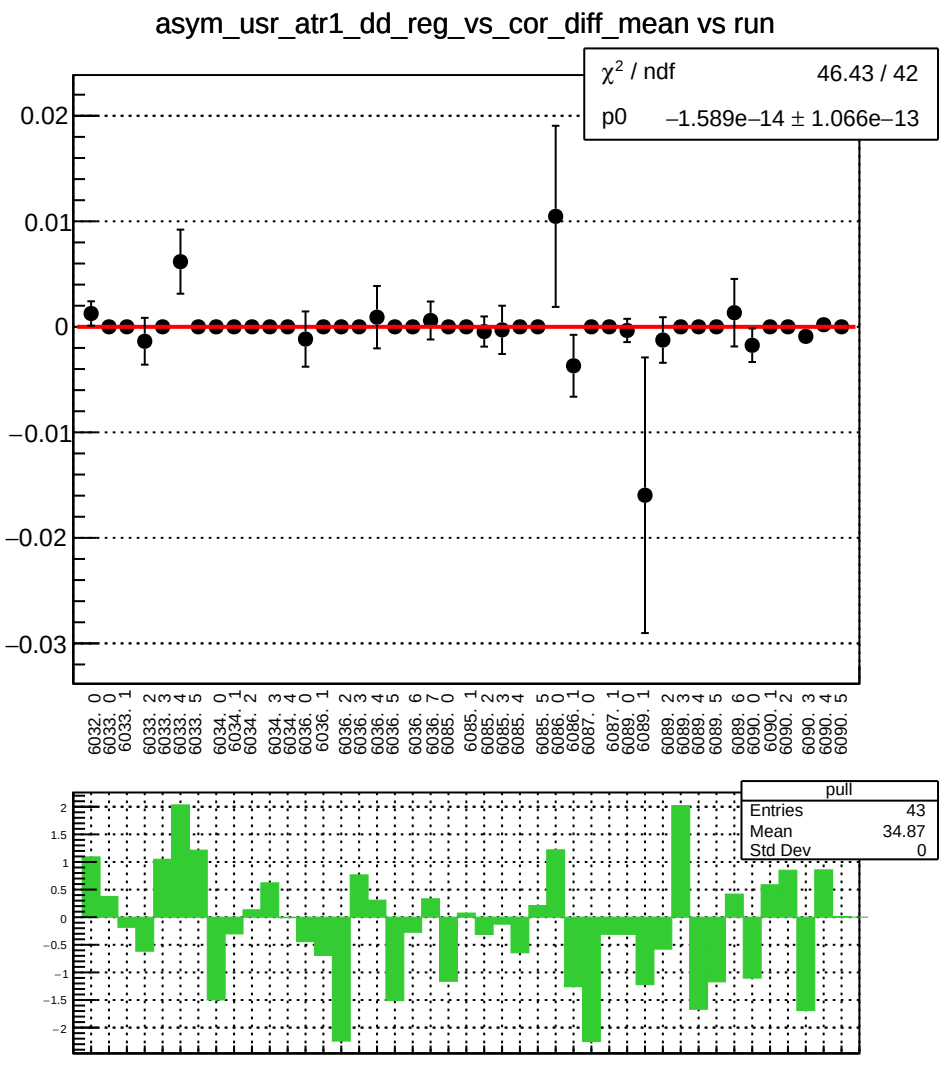

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.39 / 42
p0 270.1± 1379
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.15
Std Dev 20.21
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04035
Std Dev 0.9683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

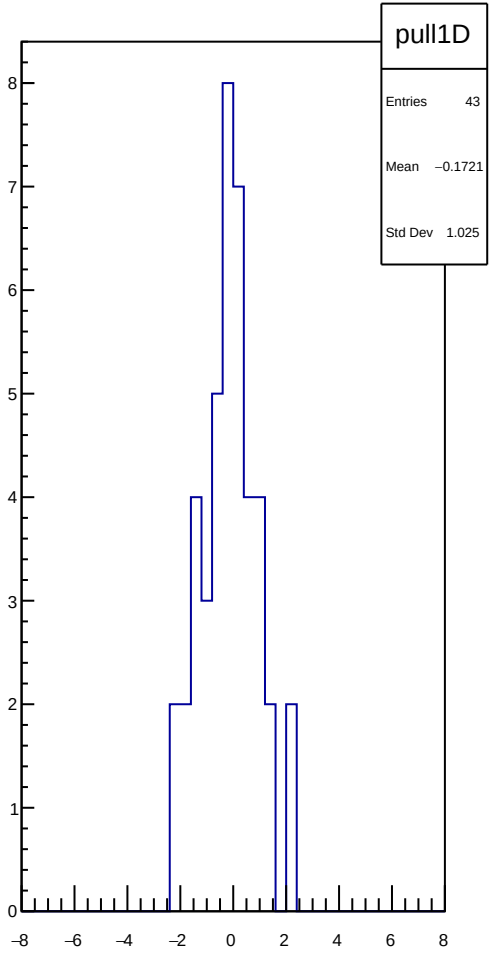

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.233e+04 / 42
p0 899.3 ± 0.975
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

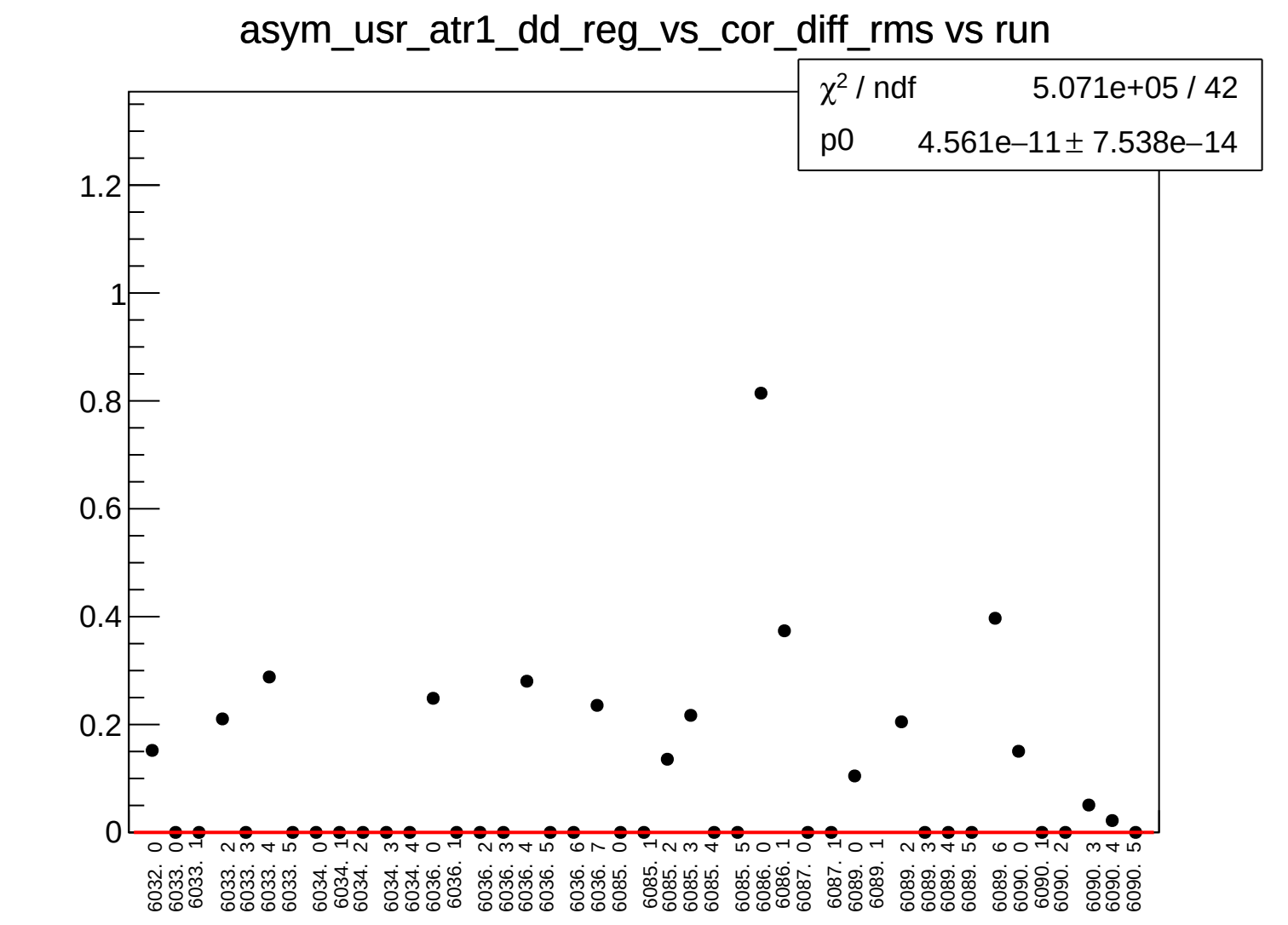

asym_usr_atr1_dd_mean vs run
χ² / ndf 29.16 / 42
p0 1749 ± 2508
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −297.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

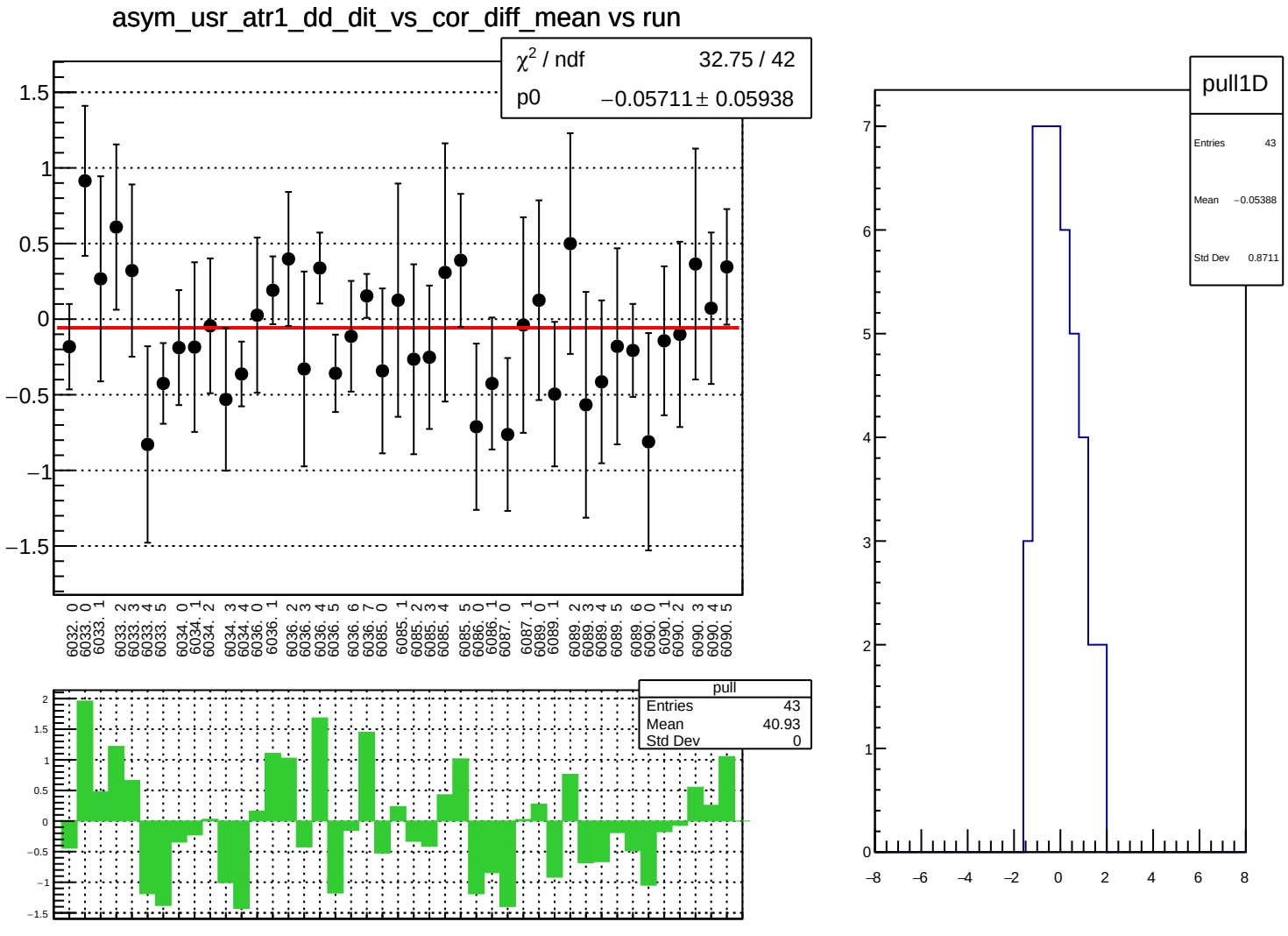

pull1D
Entries 43
Mean 0.003001
Std Dev 0.8235
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

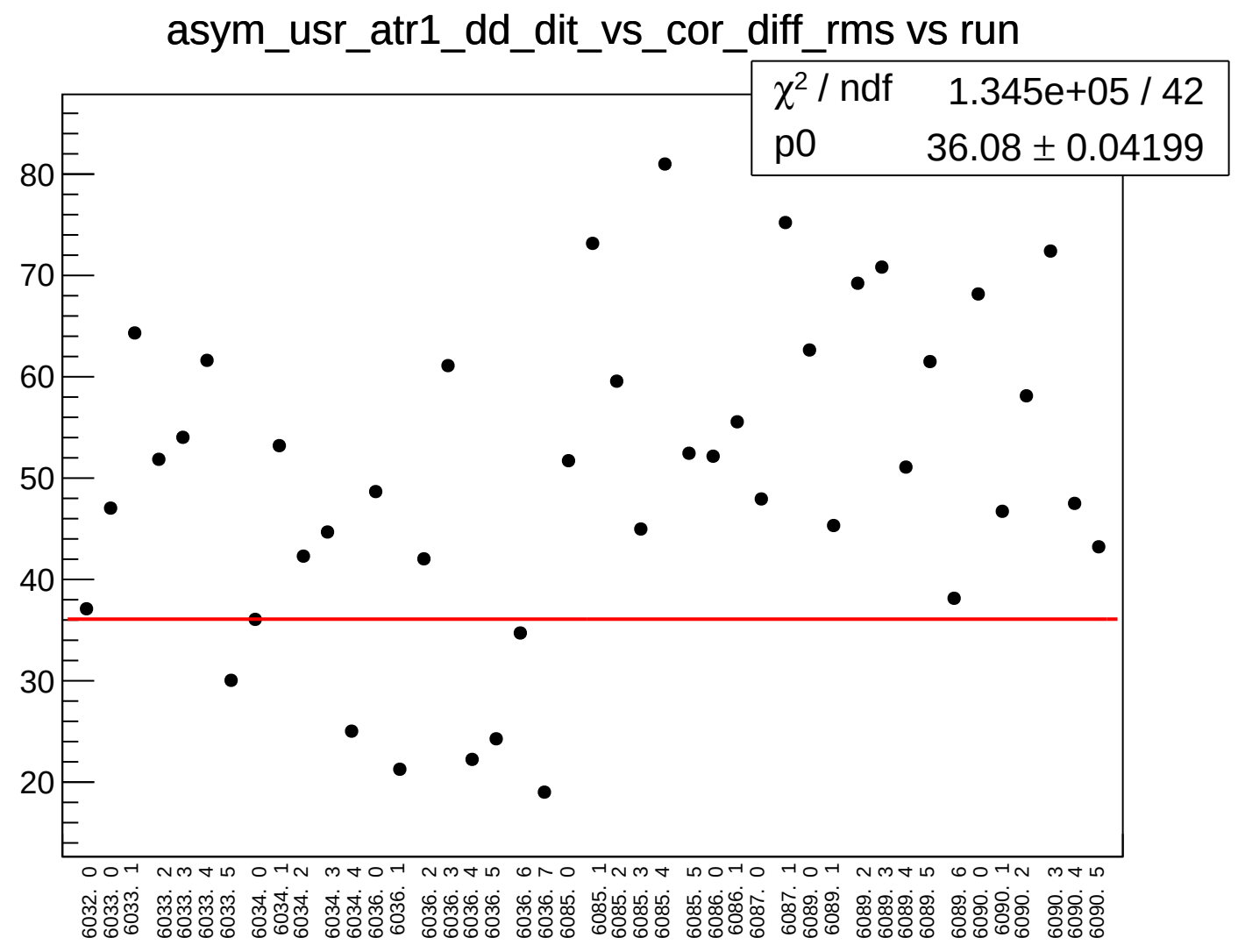

asym_usr_atr1_dd_rms vs run
χ² / ndf 2883 / 42
p0 1655 ± 1.774
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

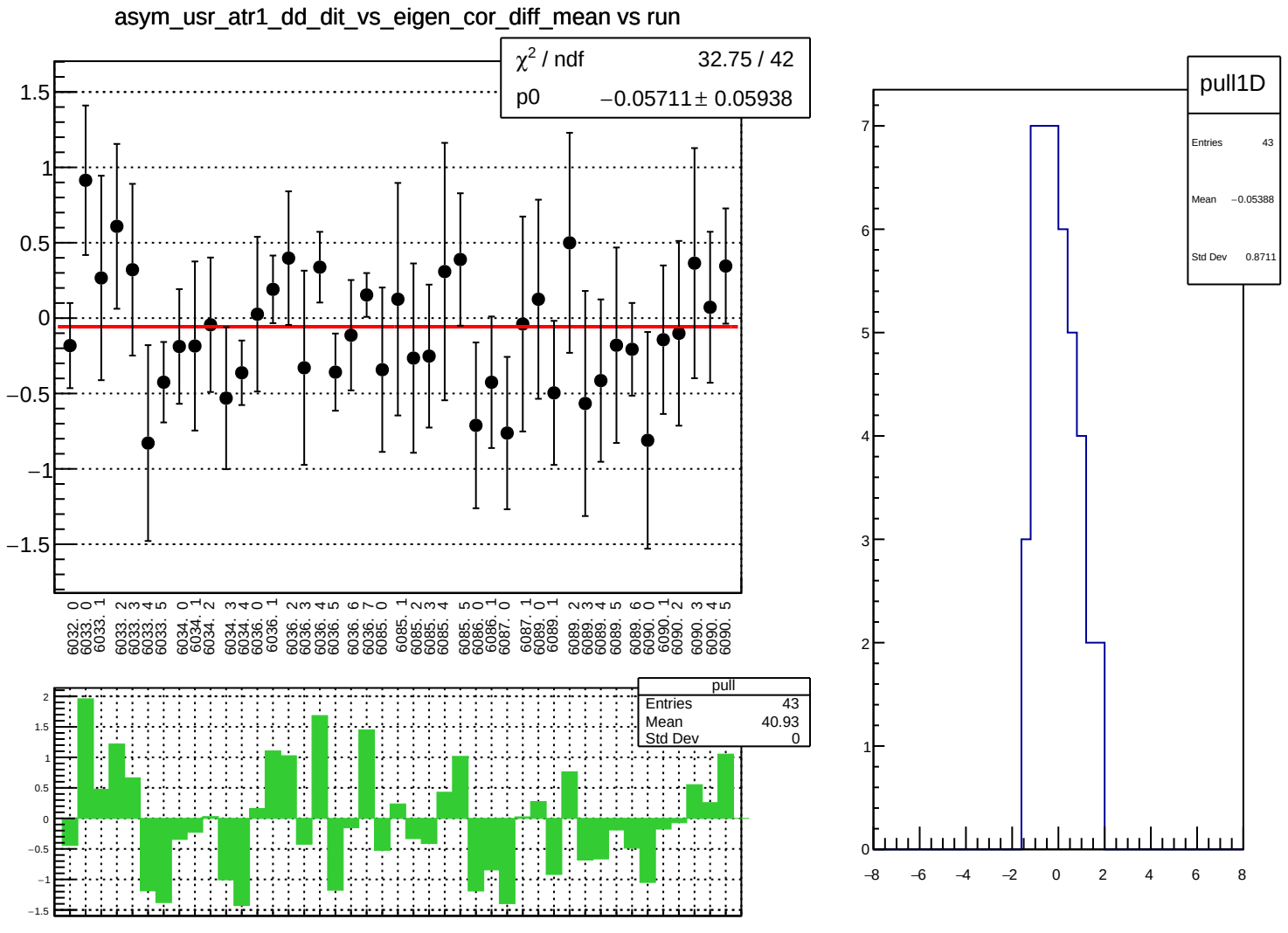

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 −1.589e−14 ± 1.066e−13
0.02
0.01
0
−0.01
−0.02
−0.03
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 34.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

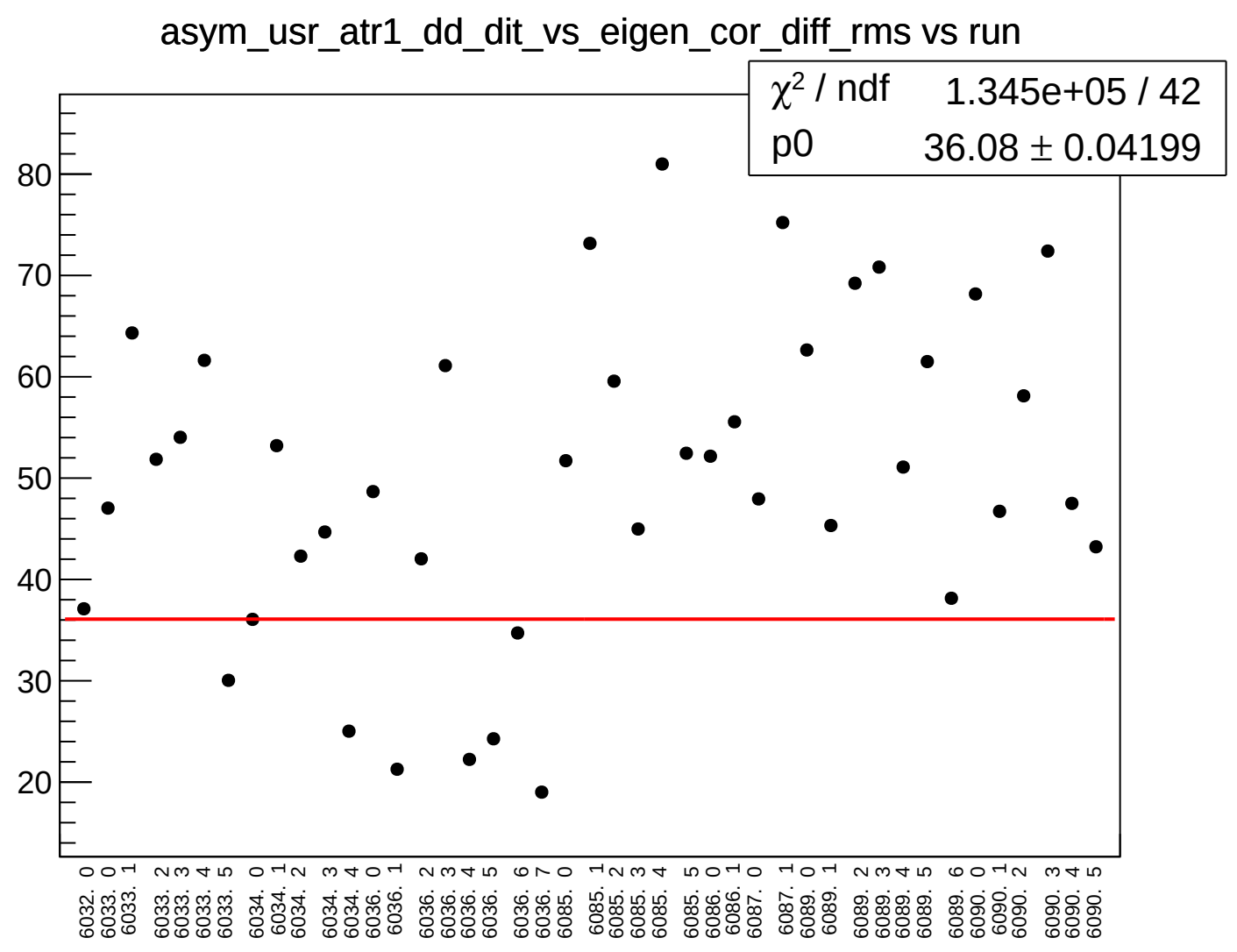

pull1D
Entries 43
Mean −0.1721
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

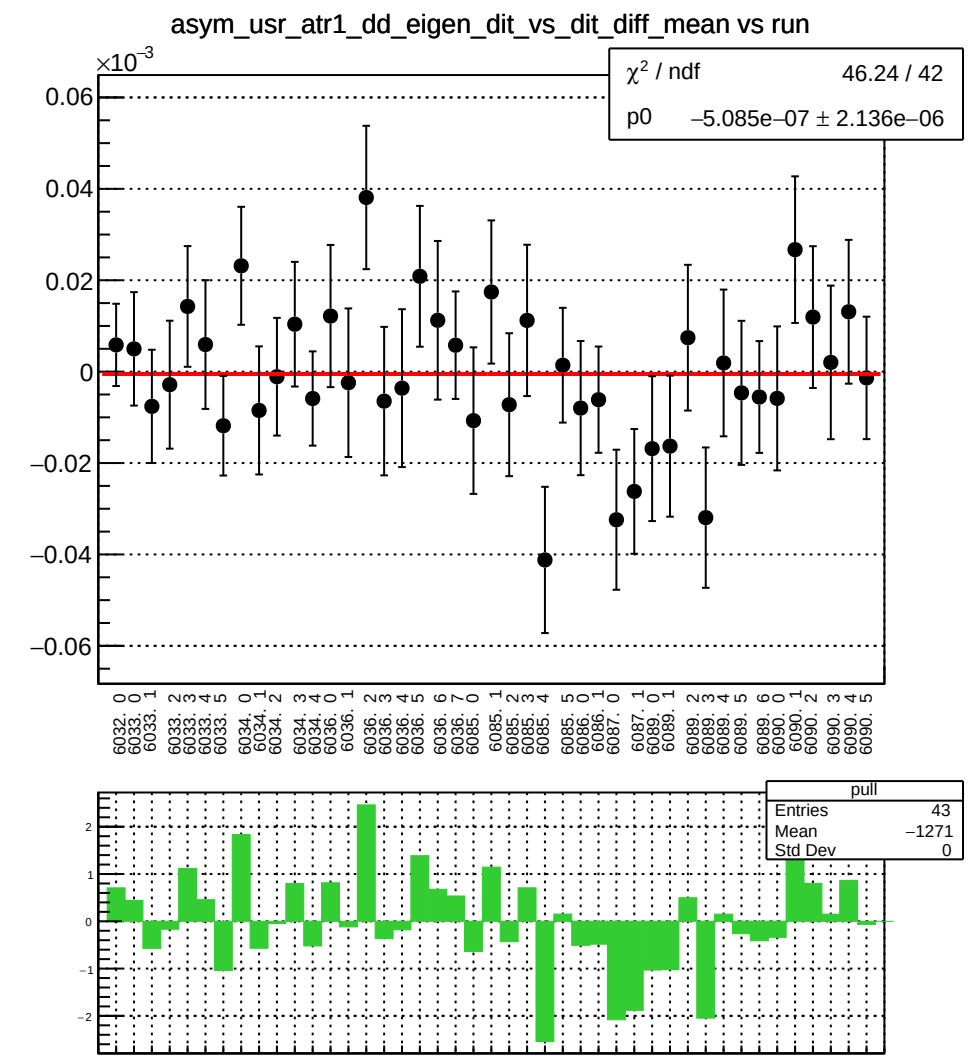

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.071e+05 / 42
p0 4.561e−11 ± 7.538e−14
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

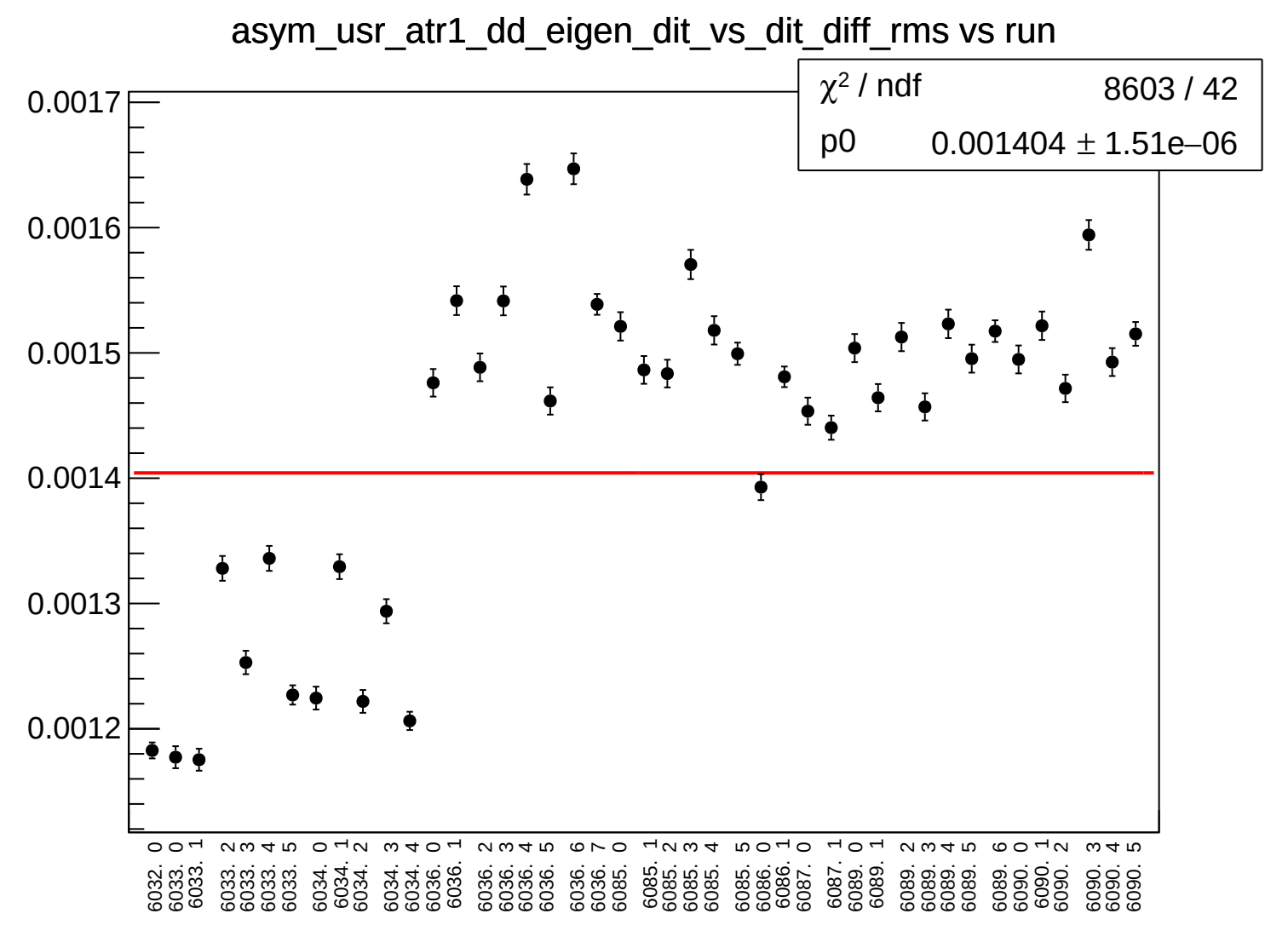

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.75 / 42
p0 −0.05711 ± 0.05938
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 40.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.05388
Std Dev 0.8711
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

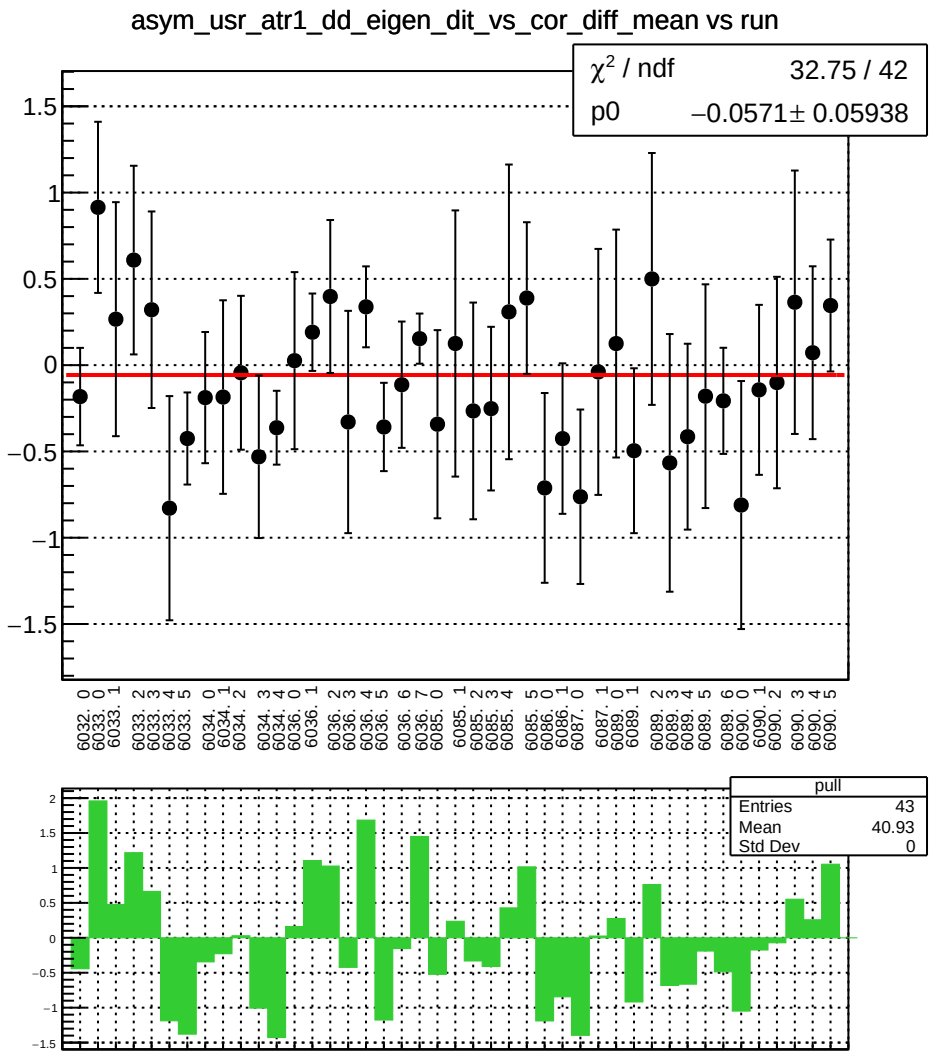

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.345e+05 / 42
p0 36.08 ± 0.04199
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

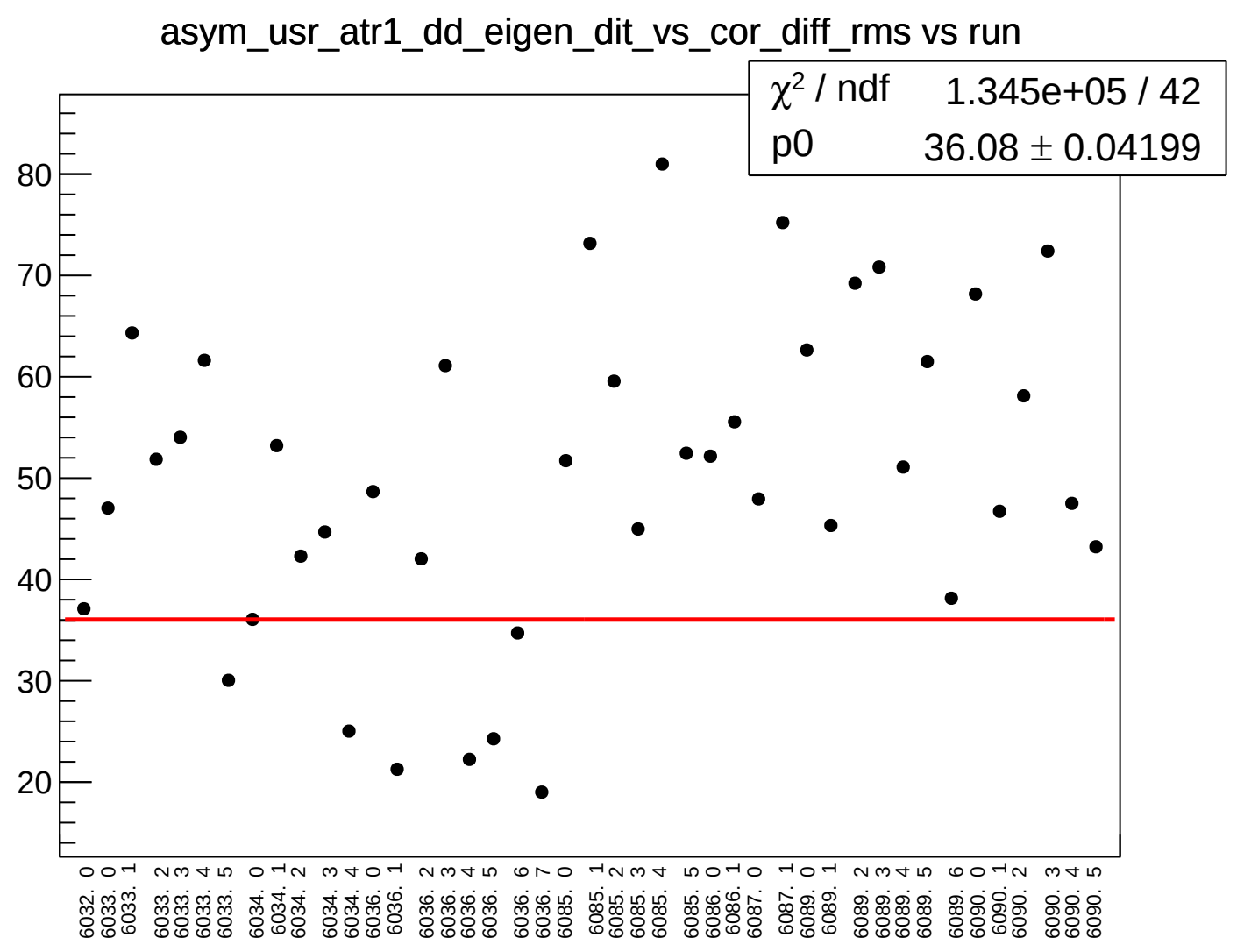

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.75 / 42
p0 −0.05711 ± 0.05938
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 40.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.05388
Std Dev 0.8711
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

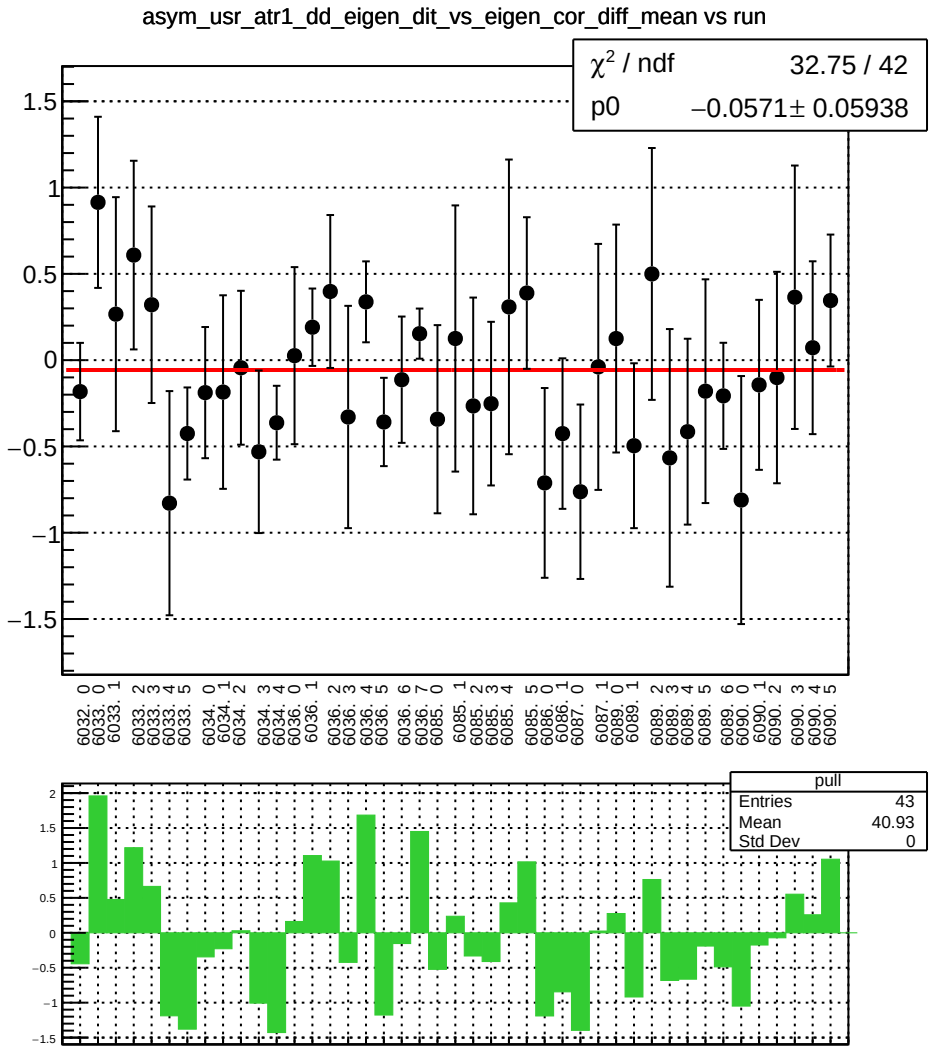

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.345e+05 / 42
p0 36.08 ± 0.04199
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

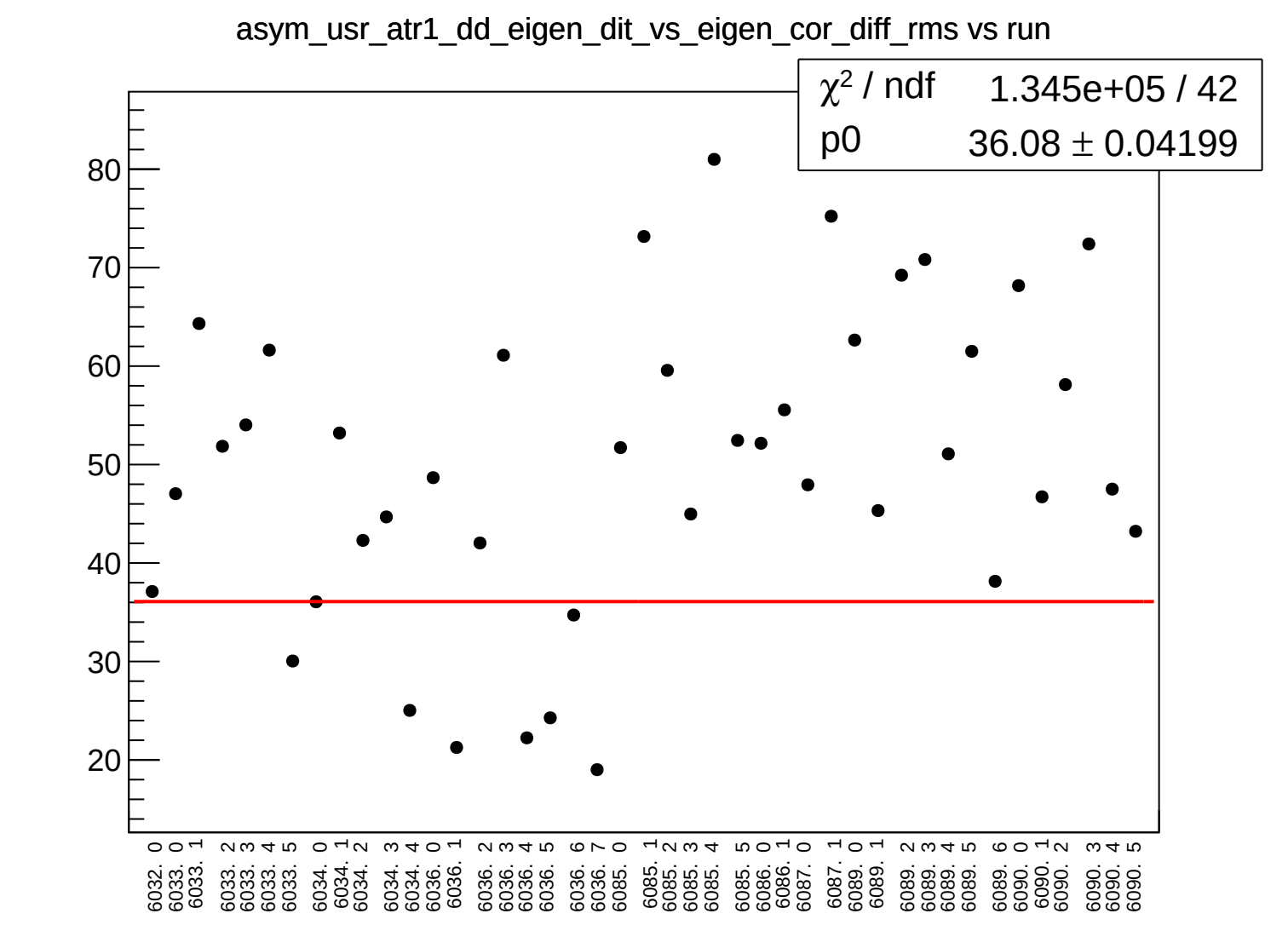

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.24 / 42
p0 −5.085e−07 ± 2.136e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1271
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001824
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

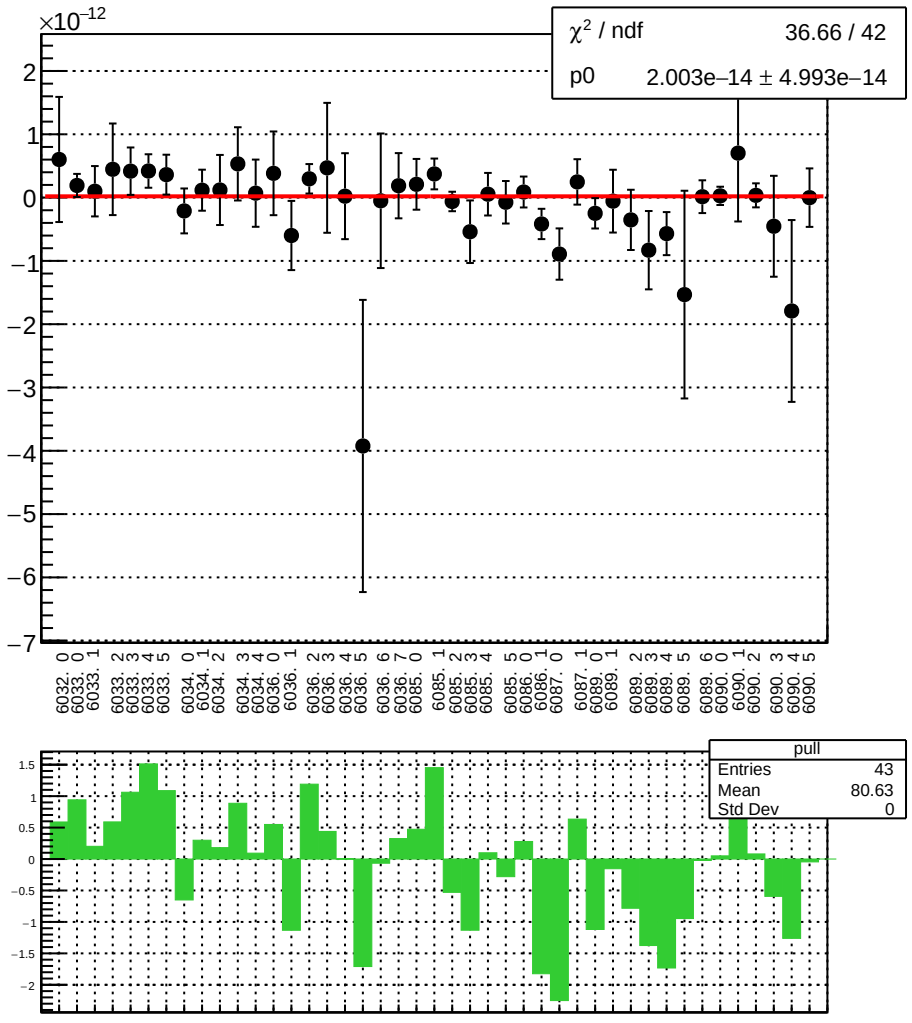

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8603 / 42
p0 0.001404 ± 1.51e–06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

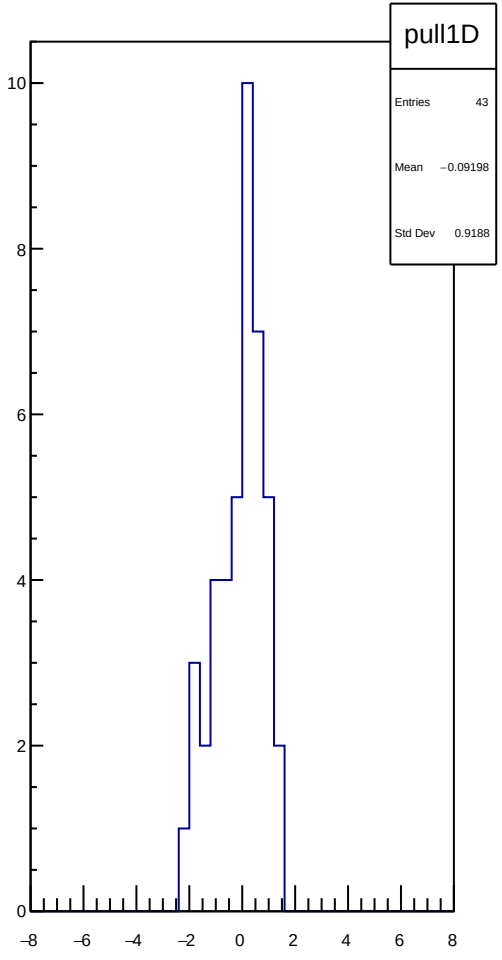

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.75 / 42
p0 −0.0571± 0.05938
pull
Entries 43
Mean 40.93
Std Dev 0
pull1D
Entries 43
Mean −0.05388
Std Dev 0.8711

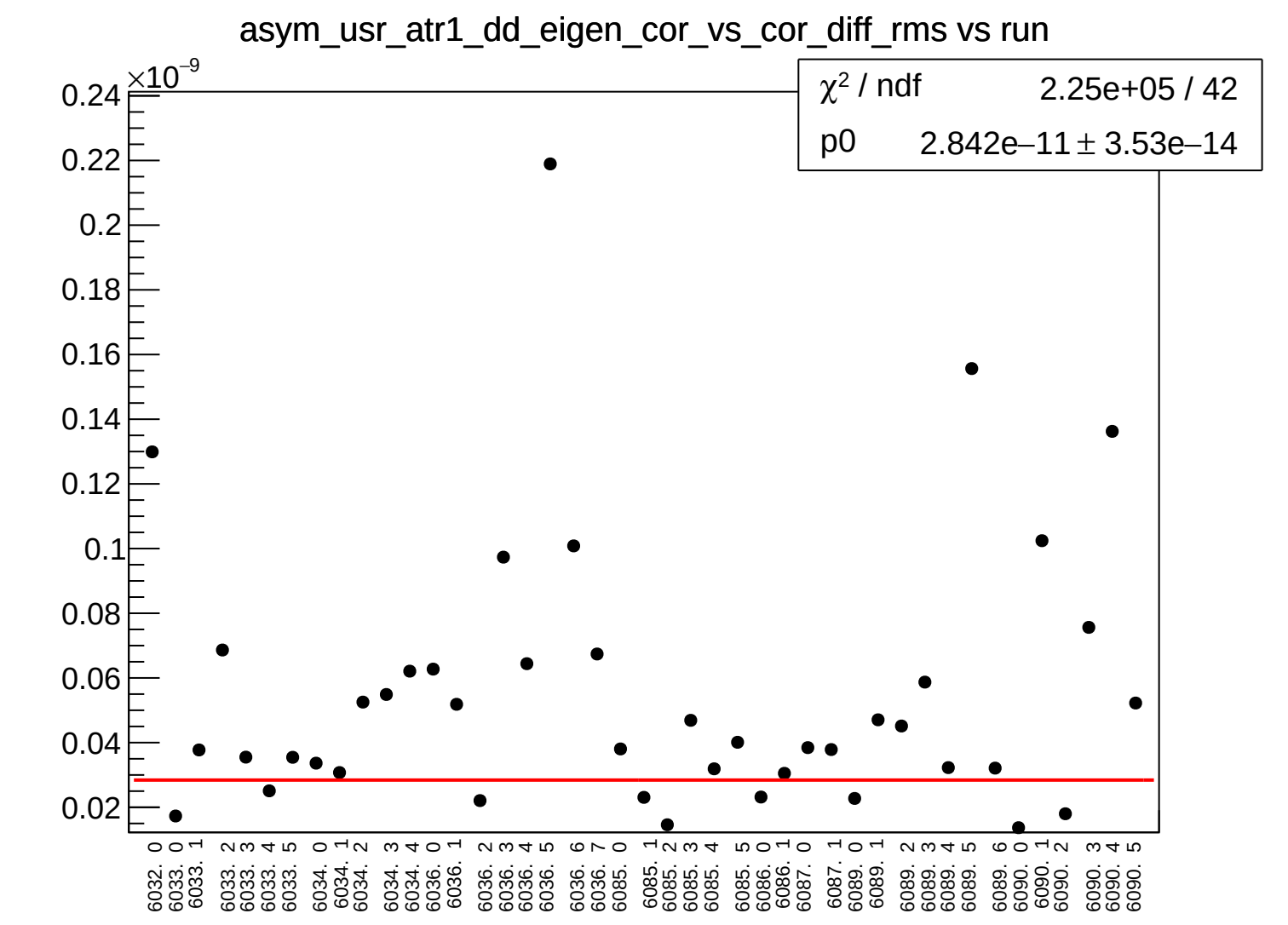

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.345e+05 / 42
p0 36.08 ± 0.04199
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

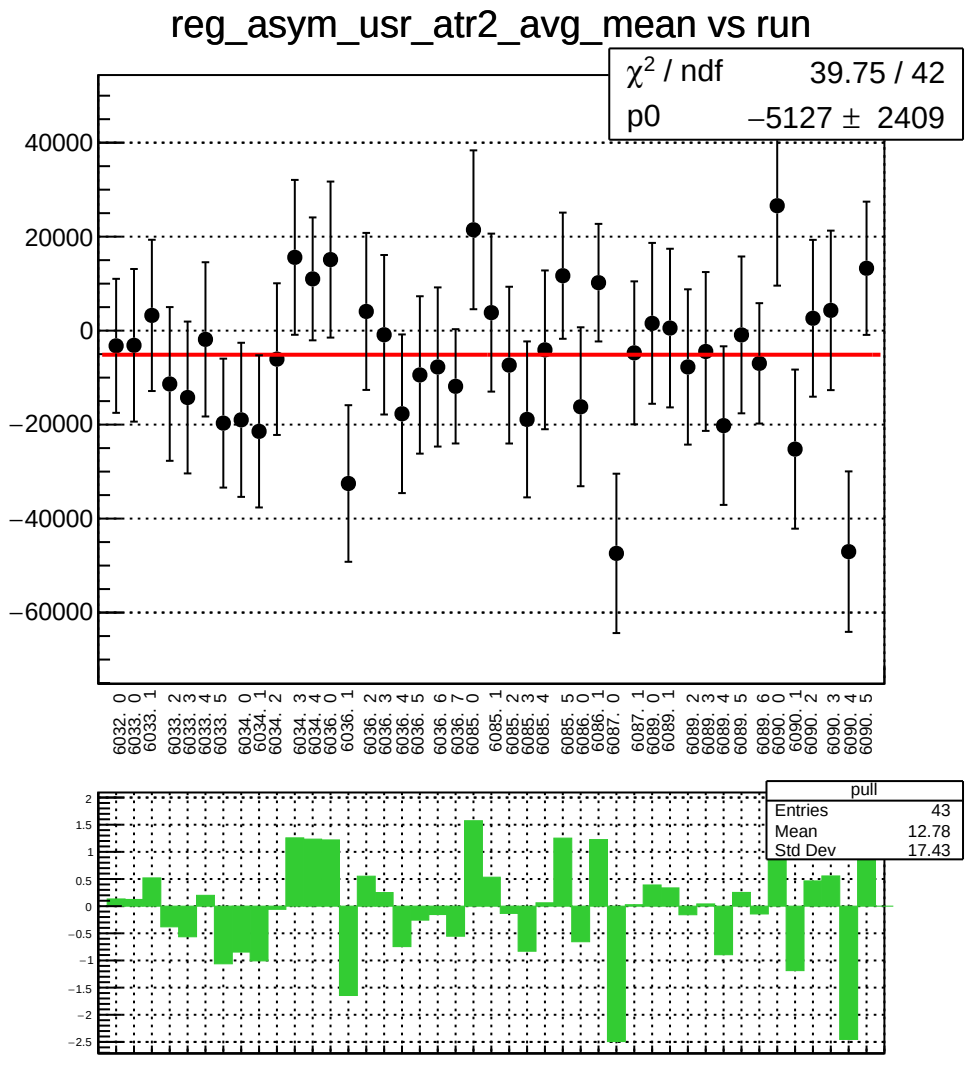

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.75 / 42
p0 −0.0571± 0.05938
pull
Entries 43
Mean 40.93
Std Dev 0
pull1D
Entries 43
Mean −0.05388
Std Dev 0.8711

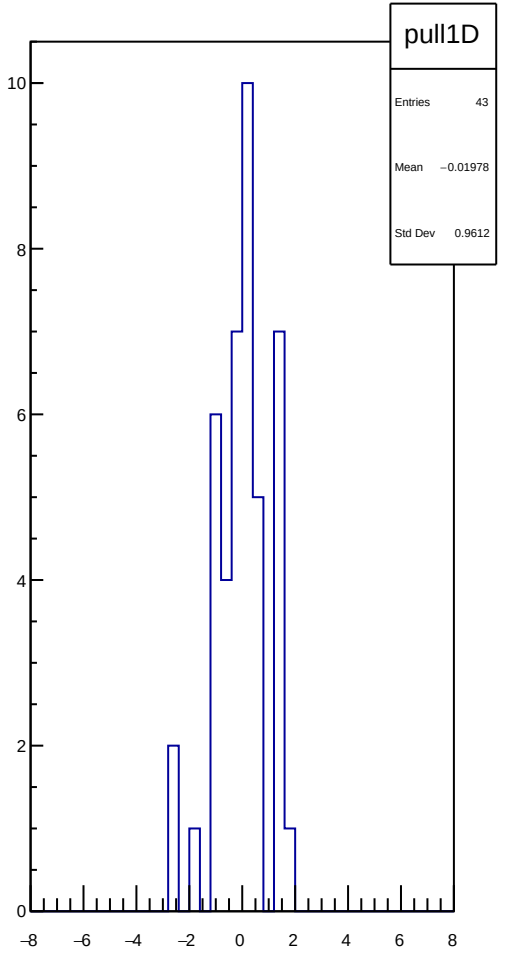

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.345e+05 / 42
p0 36.08 ± 0.04199
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

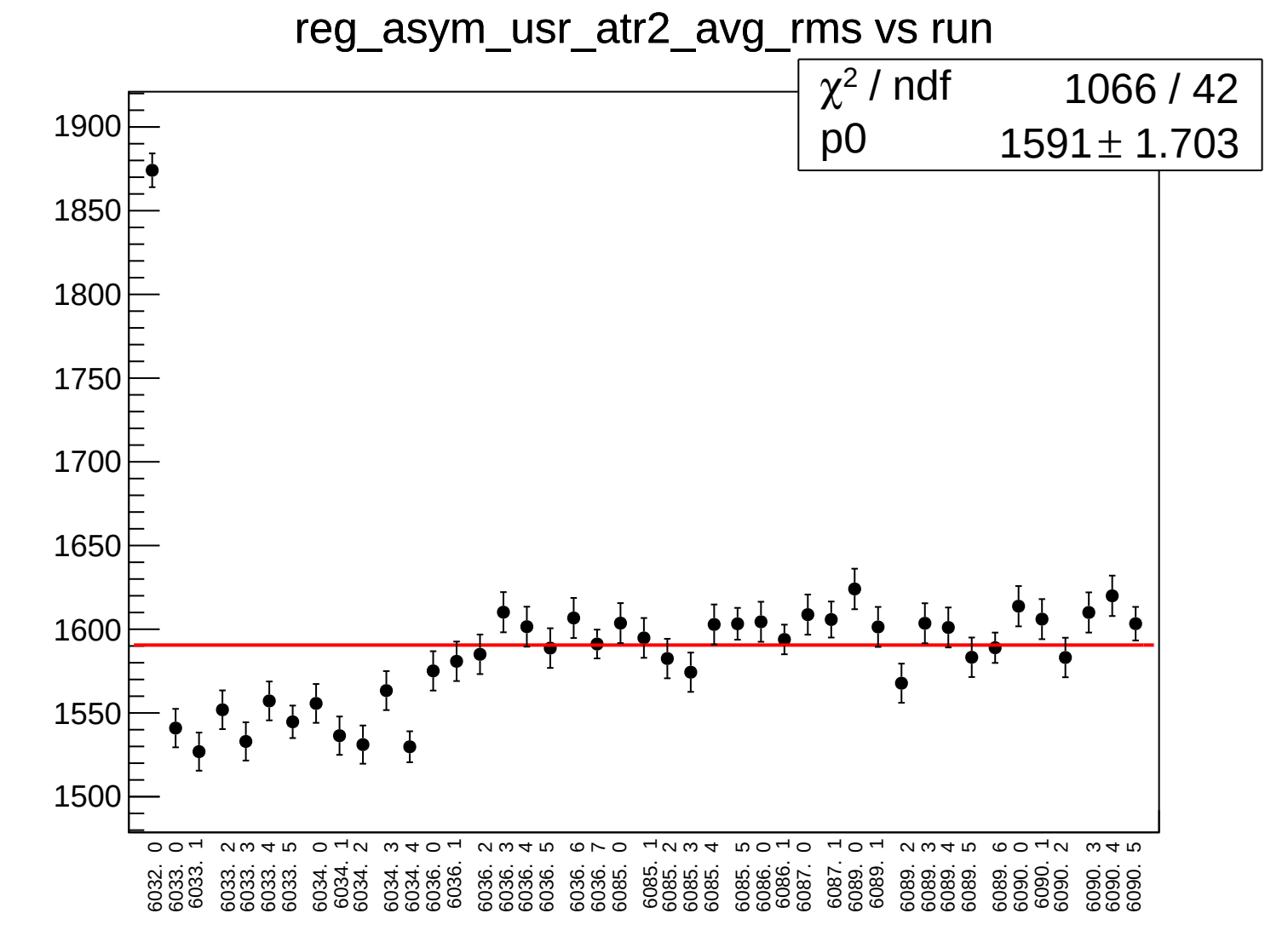

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 36.66 / 42
p0 2.003e−14 ± 4.993e−14
pull
Entries 43
Mean 80.63
Std Dev 0

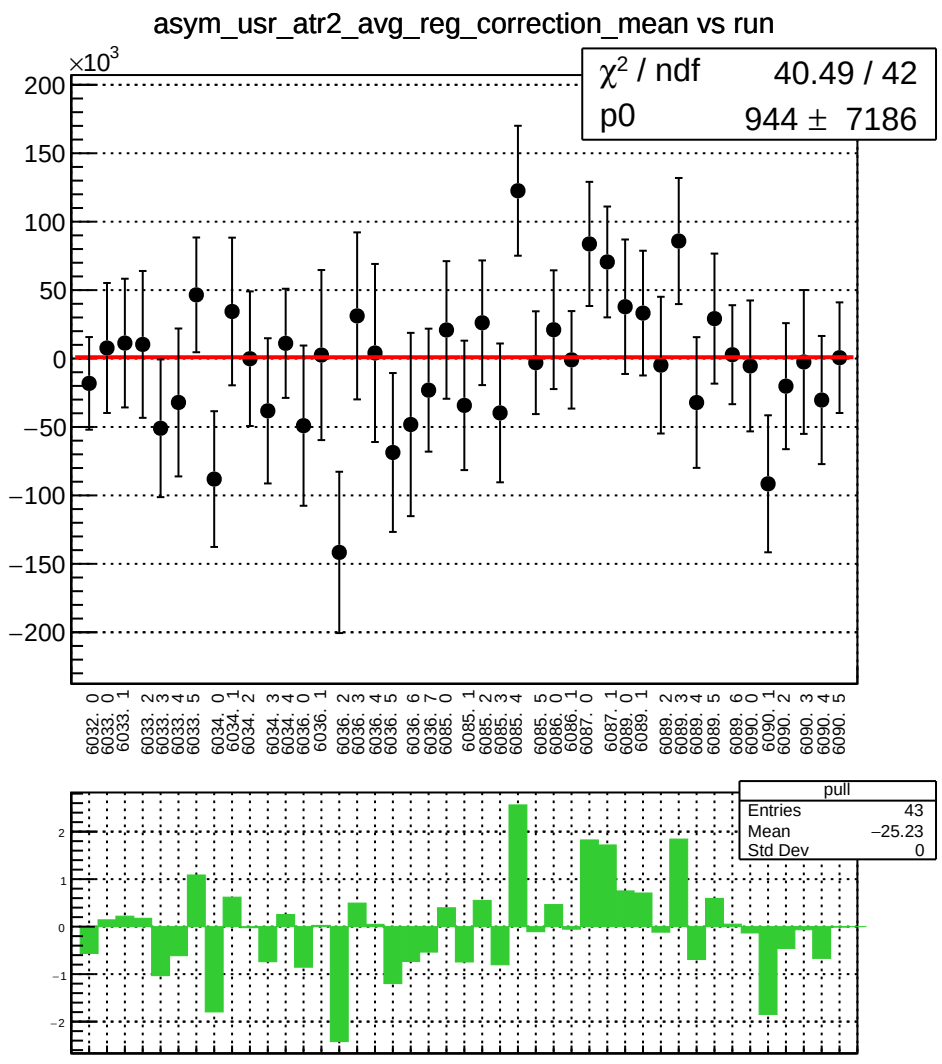

pull1D
Entries 43
Mean −0.09198
Std Dev 0.9188

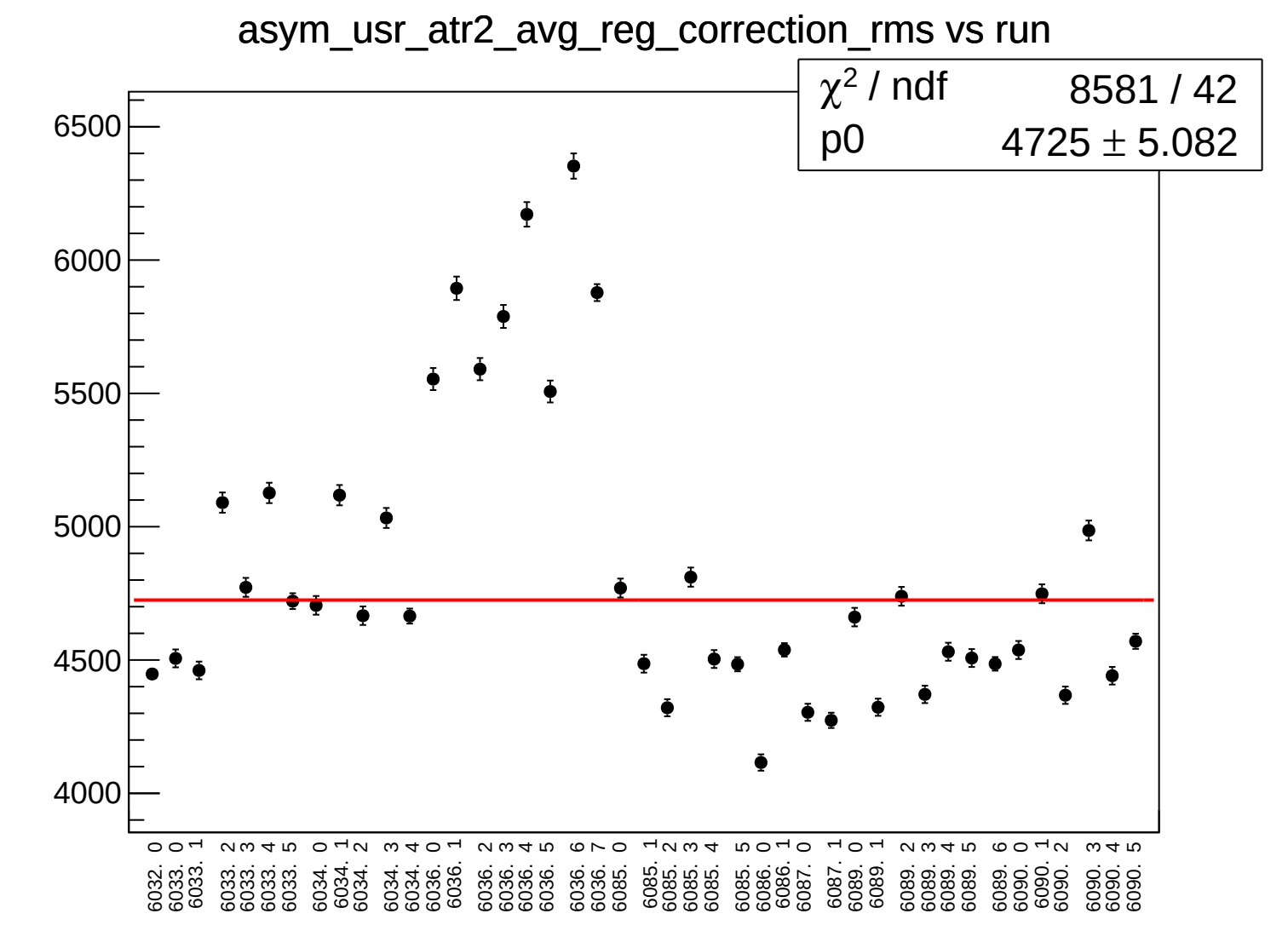

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.25e+05 / 42
p0 2.842e−11 ± 3.53e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

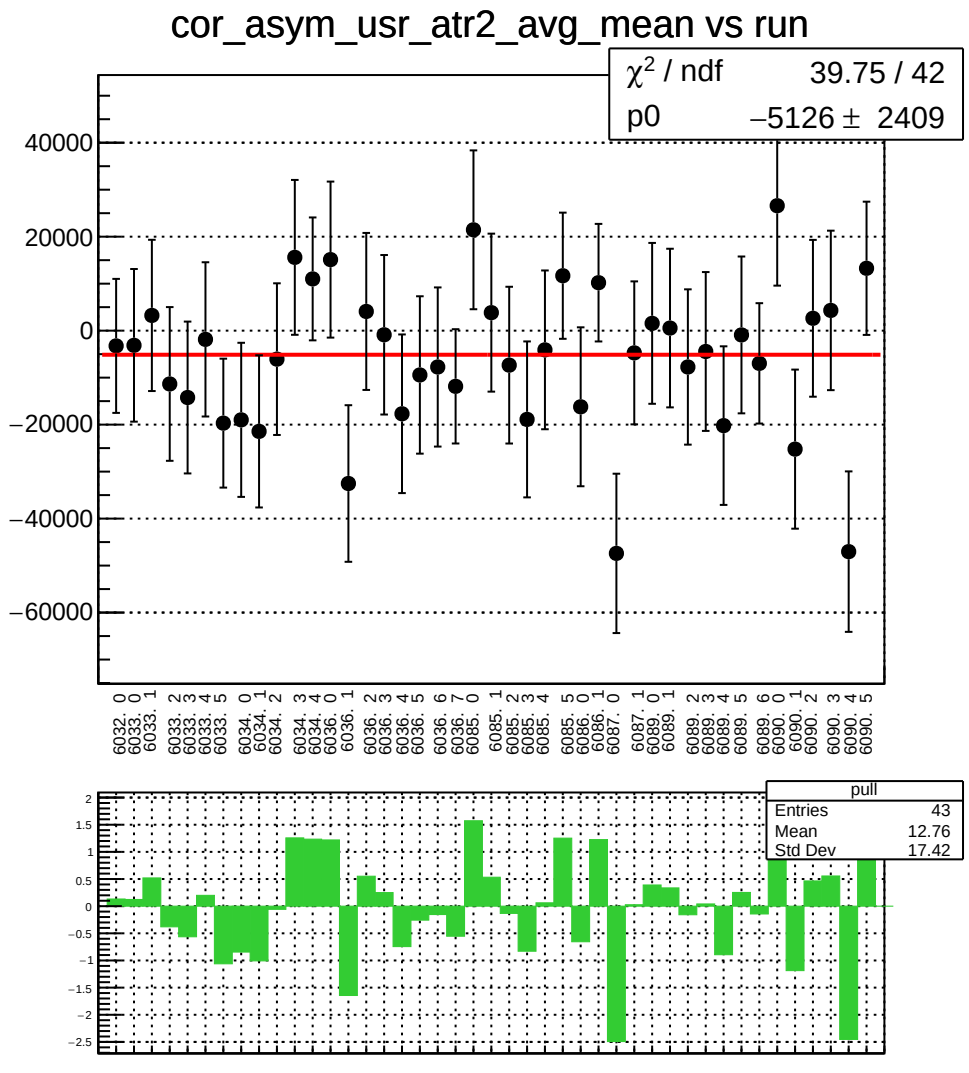

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 39.75 / 42
p0 −5127 ± 2409
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.78
Std Dev 17.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

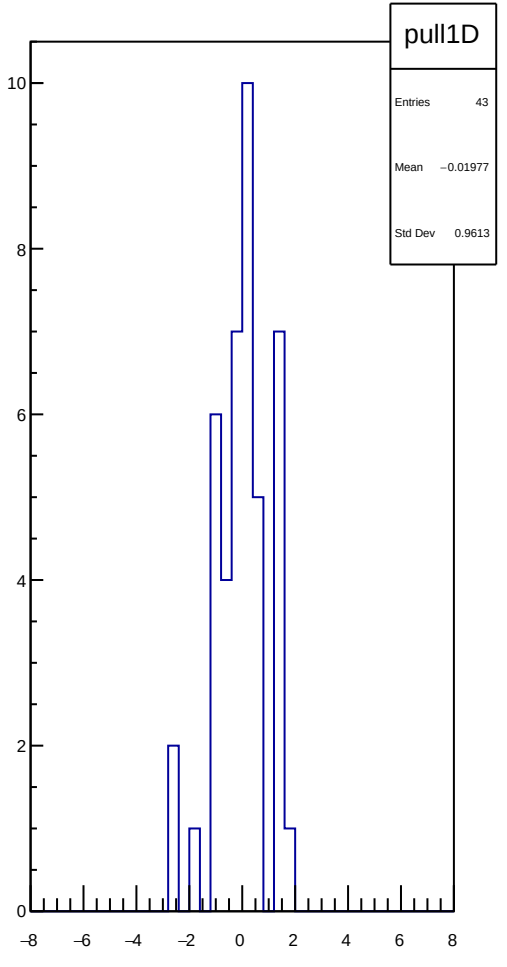

pull1D
Entries 43
Mean −0.01978
Std Dev 0.9612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

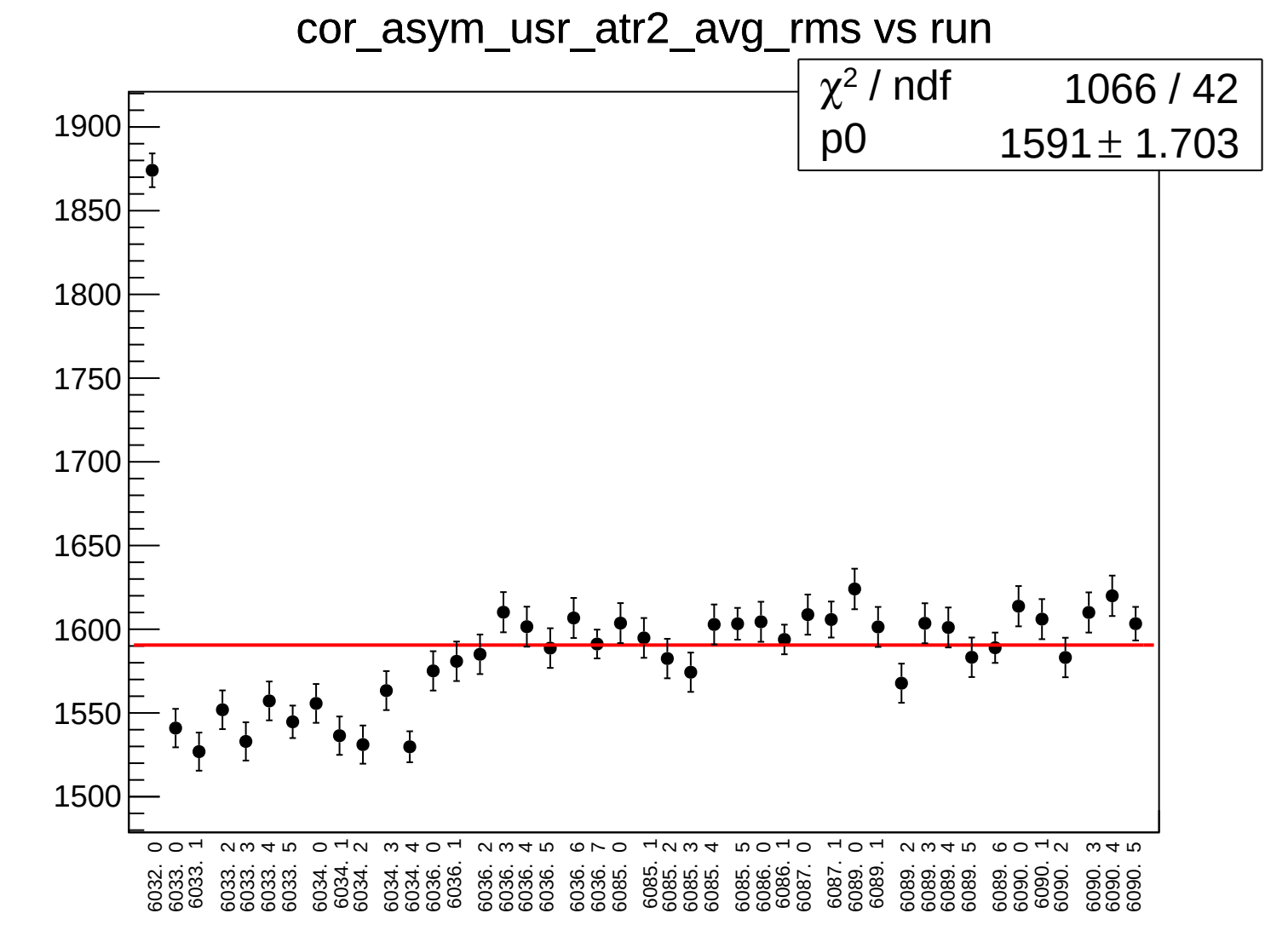

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1066 / 42
p0 1591 ± 1.703
1900
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

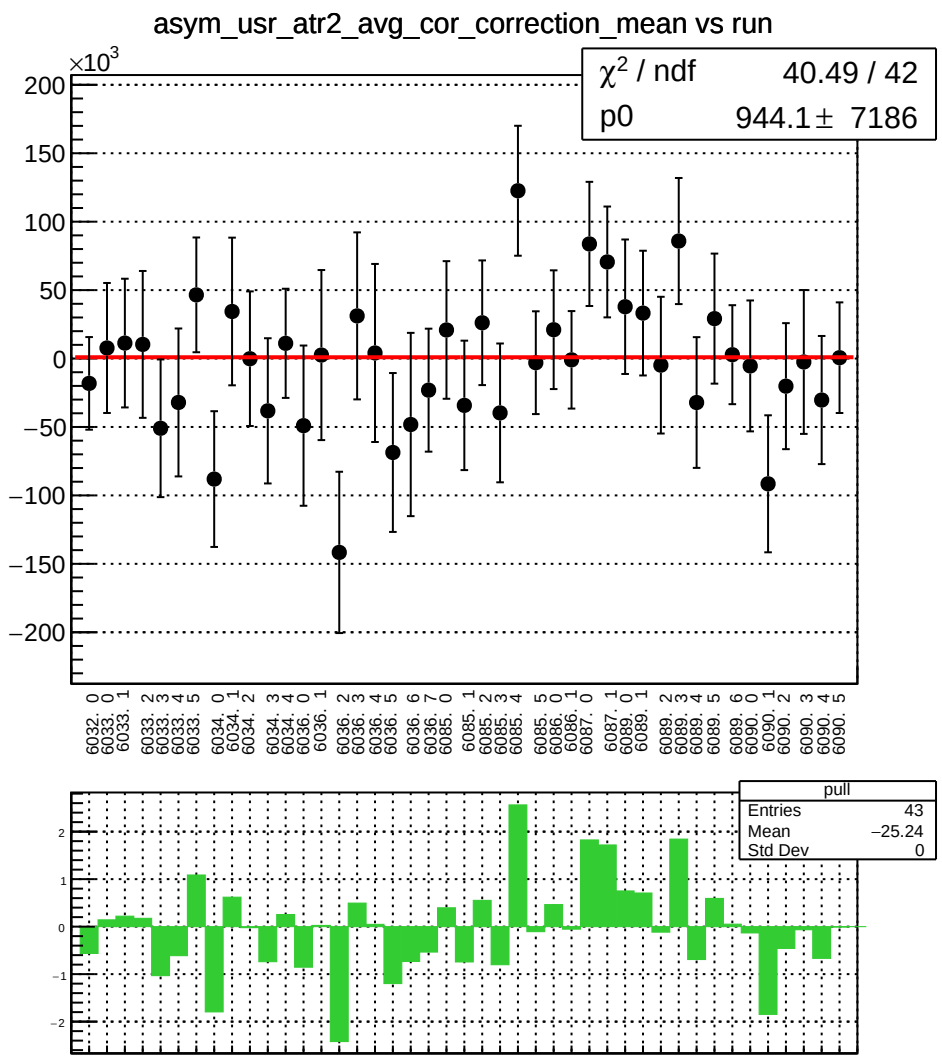

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.49 / 42
p0 944 ± 7186
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −25.23
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03853
Std Dev 0.9697
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

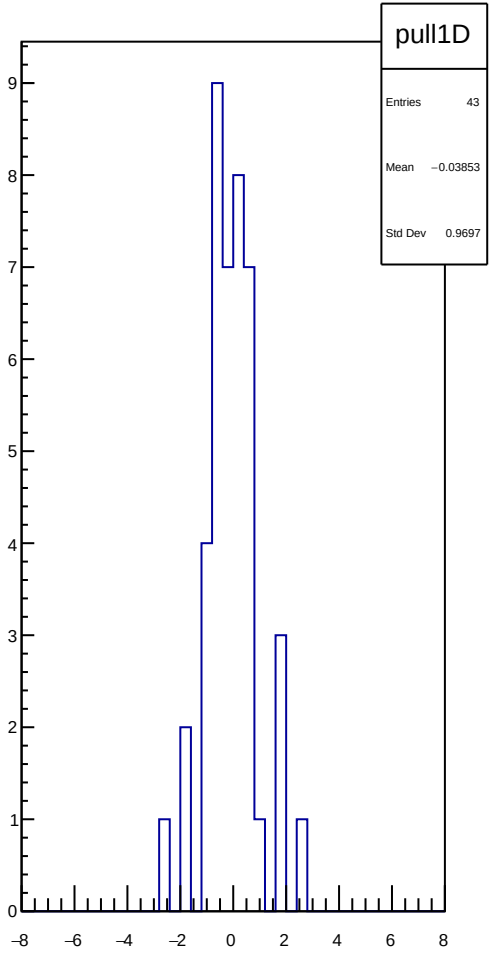

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 8581 / 42
p0 4725 ± 5.082
6500
6000
5500
5000
4500
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

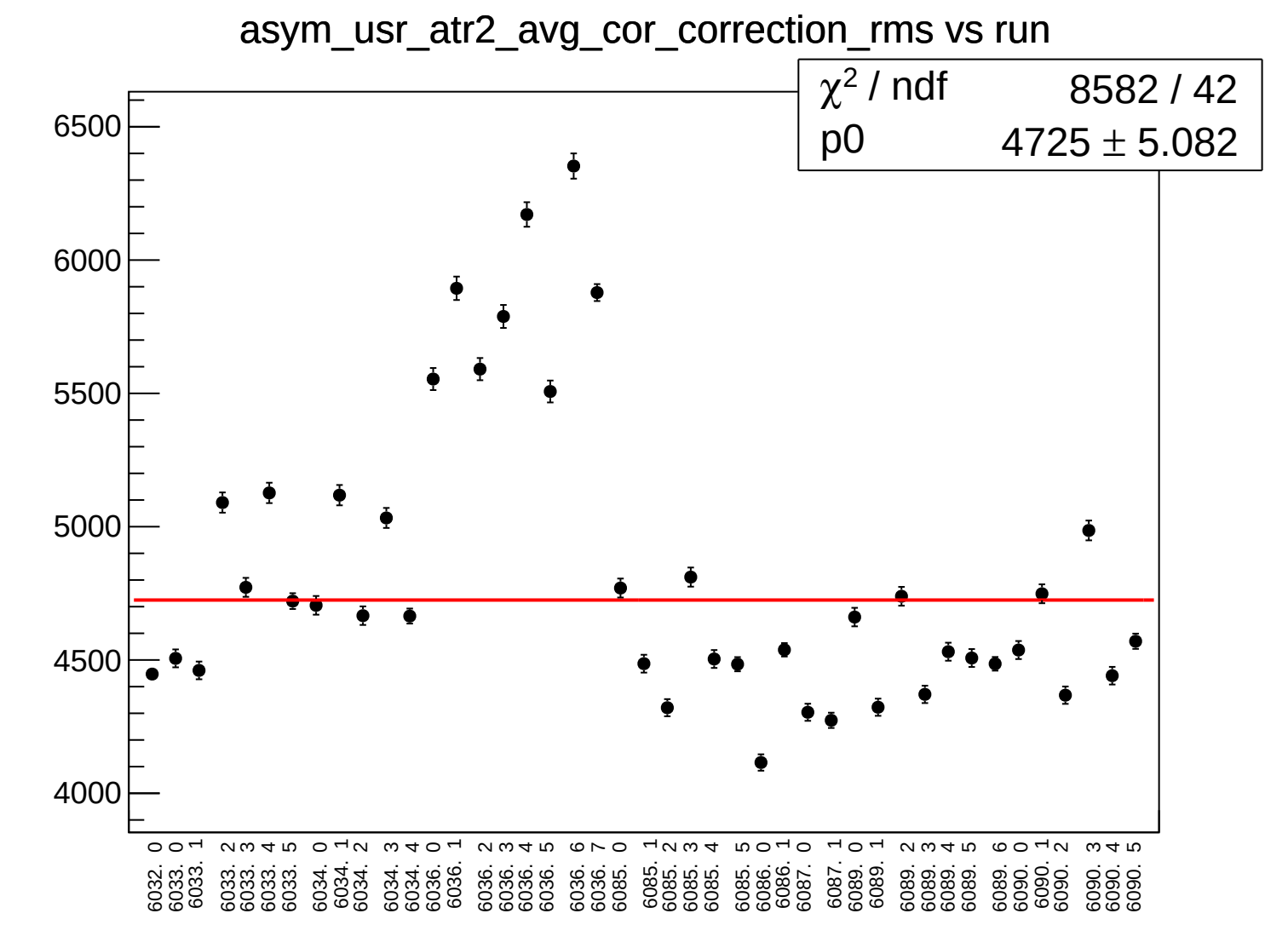

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 39.75 / 42
p0 −5126 ± 2409
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.76
Std Dev 17.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

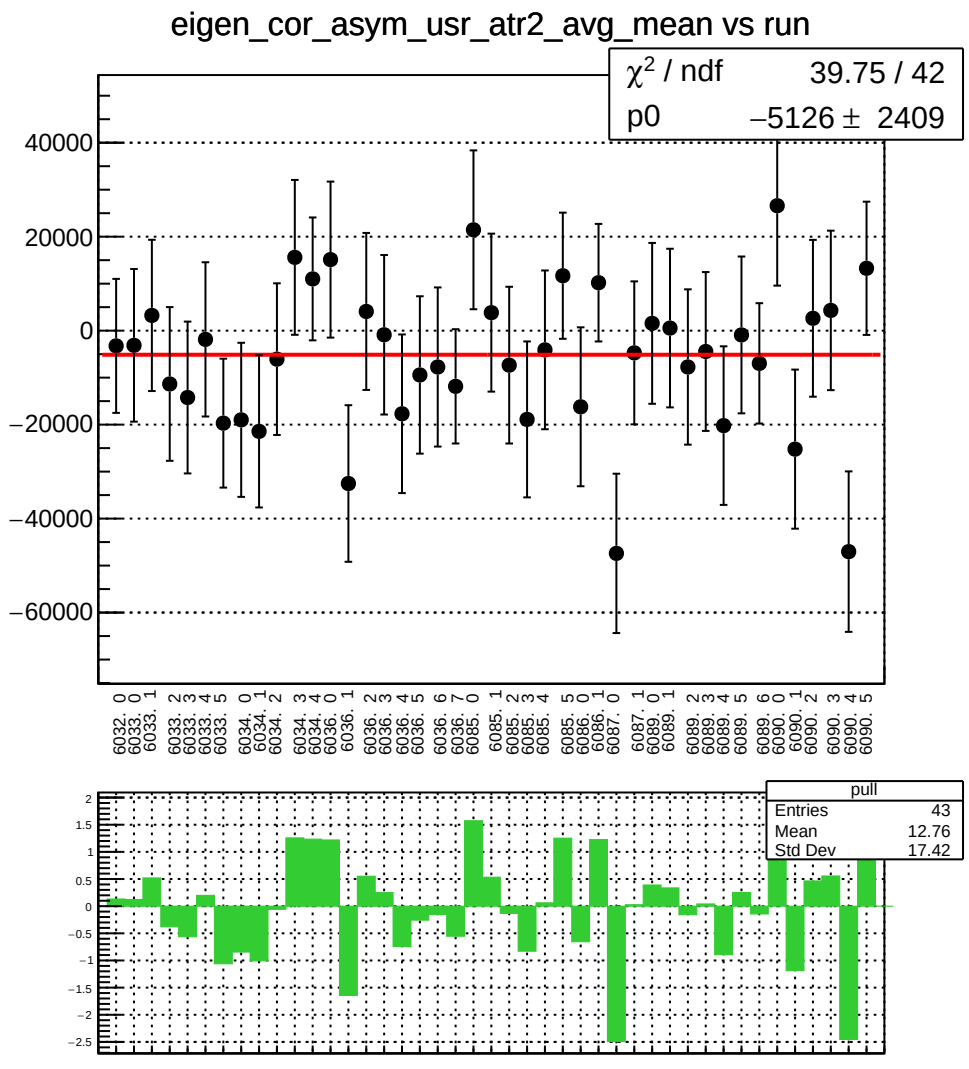

pull1D
Entries 43
Mean −0.01977
Std Dev 0.9613
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

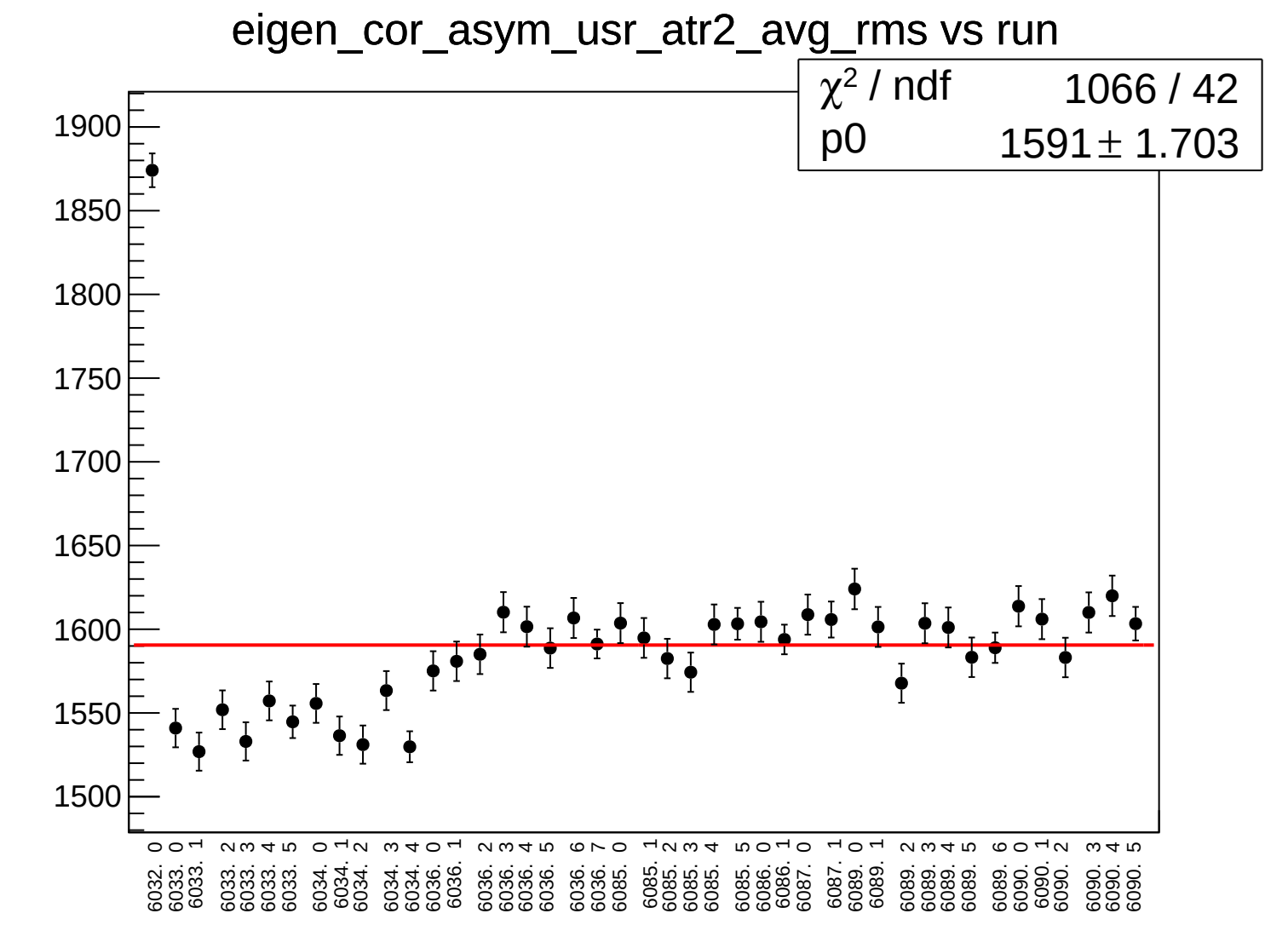

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1066 / 42
p0 1591 ± 1.703
1900
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

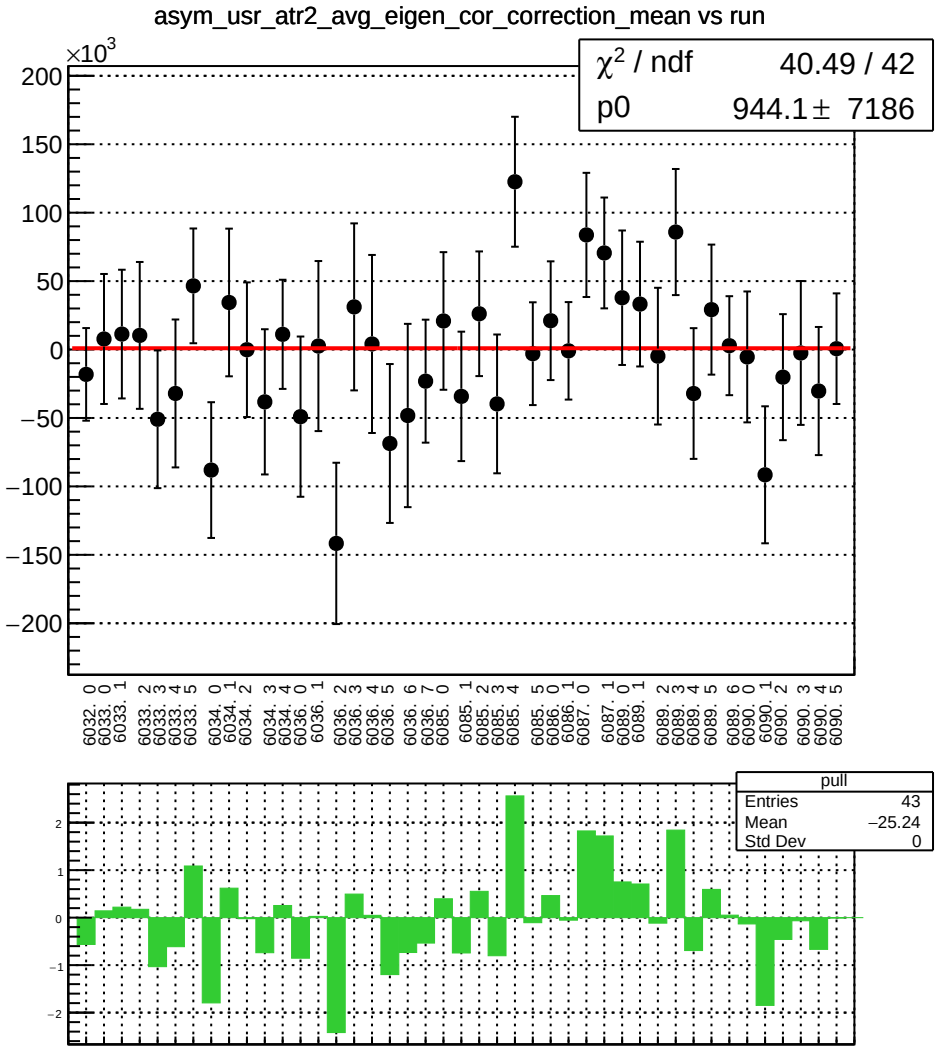

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.49 / 42
p0 944.1 ± 7186
pull
Entries 43
Mean −25.24
Std Dev 0

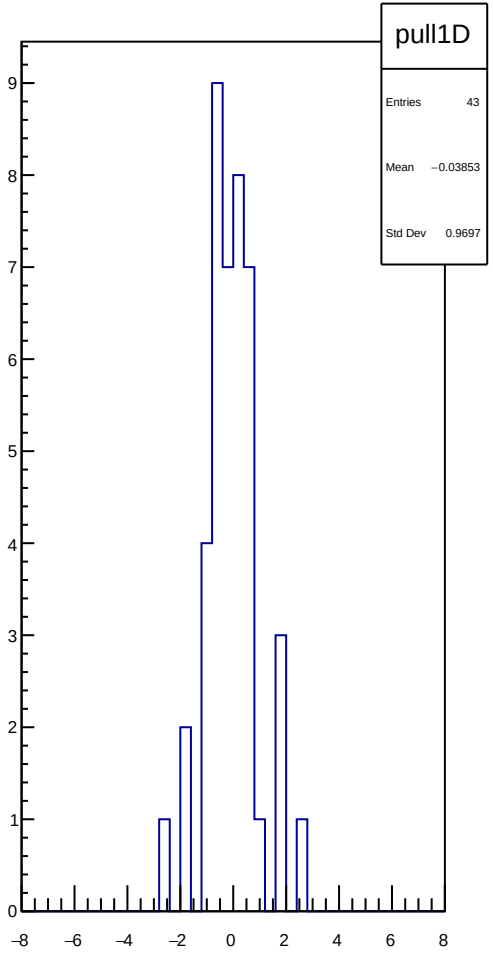

pull1D
Entries 43
Mean −0.03853
Std Dev 0.9697

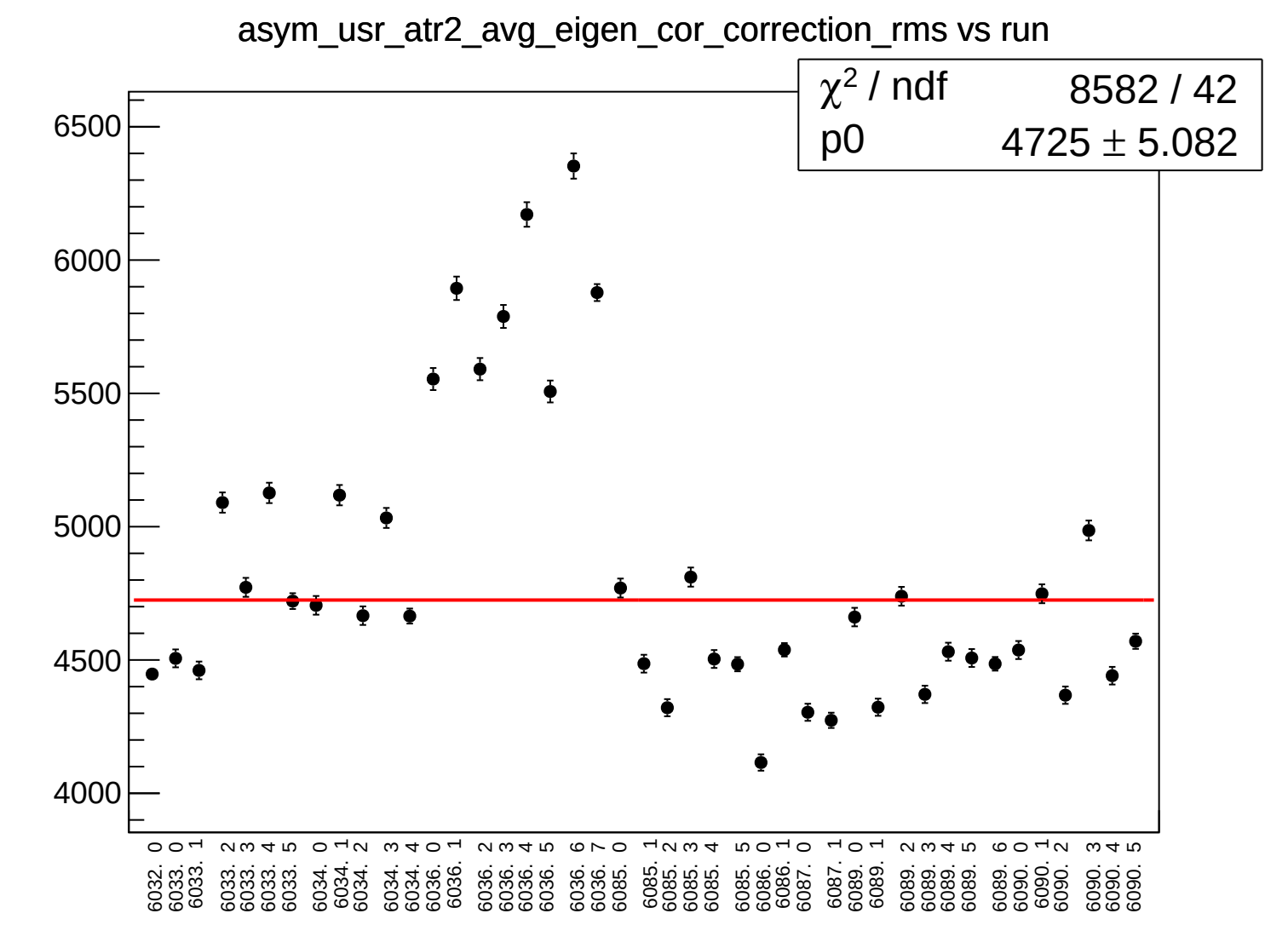

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 8582 / 42
p0 4725 ± 5.082
6500
6000
5500
5000
4500
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

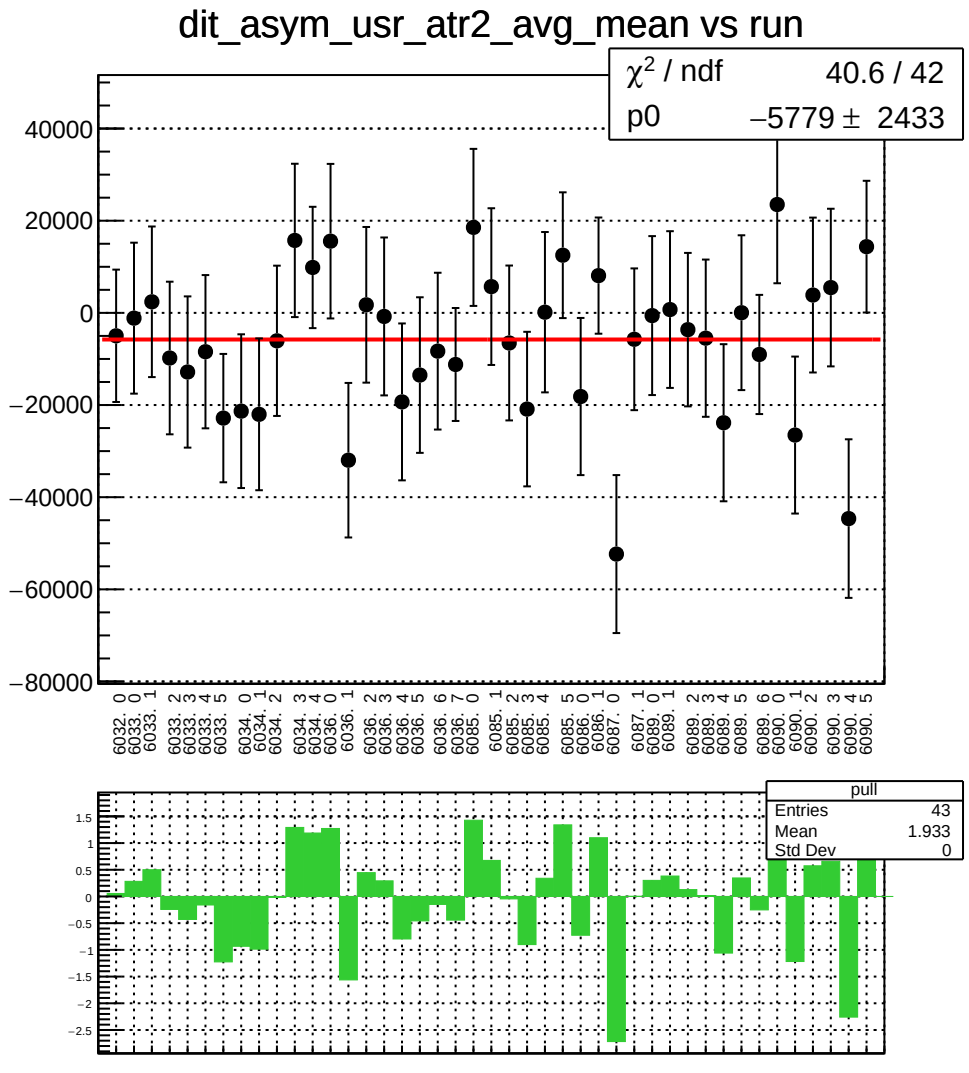

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 39.75 / 42
p0 −5126 ± 2409
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.76
Std Dev 17.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01977
Std Dev 0.9613
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

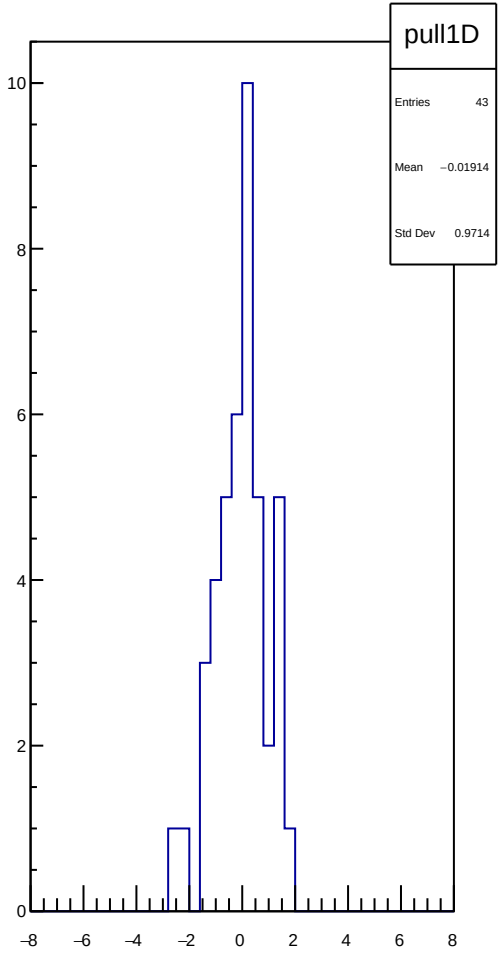

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1066 / 42
p0 1591 ± 1.703
1900
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

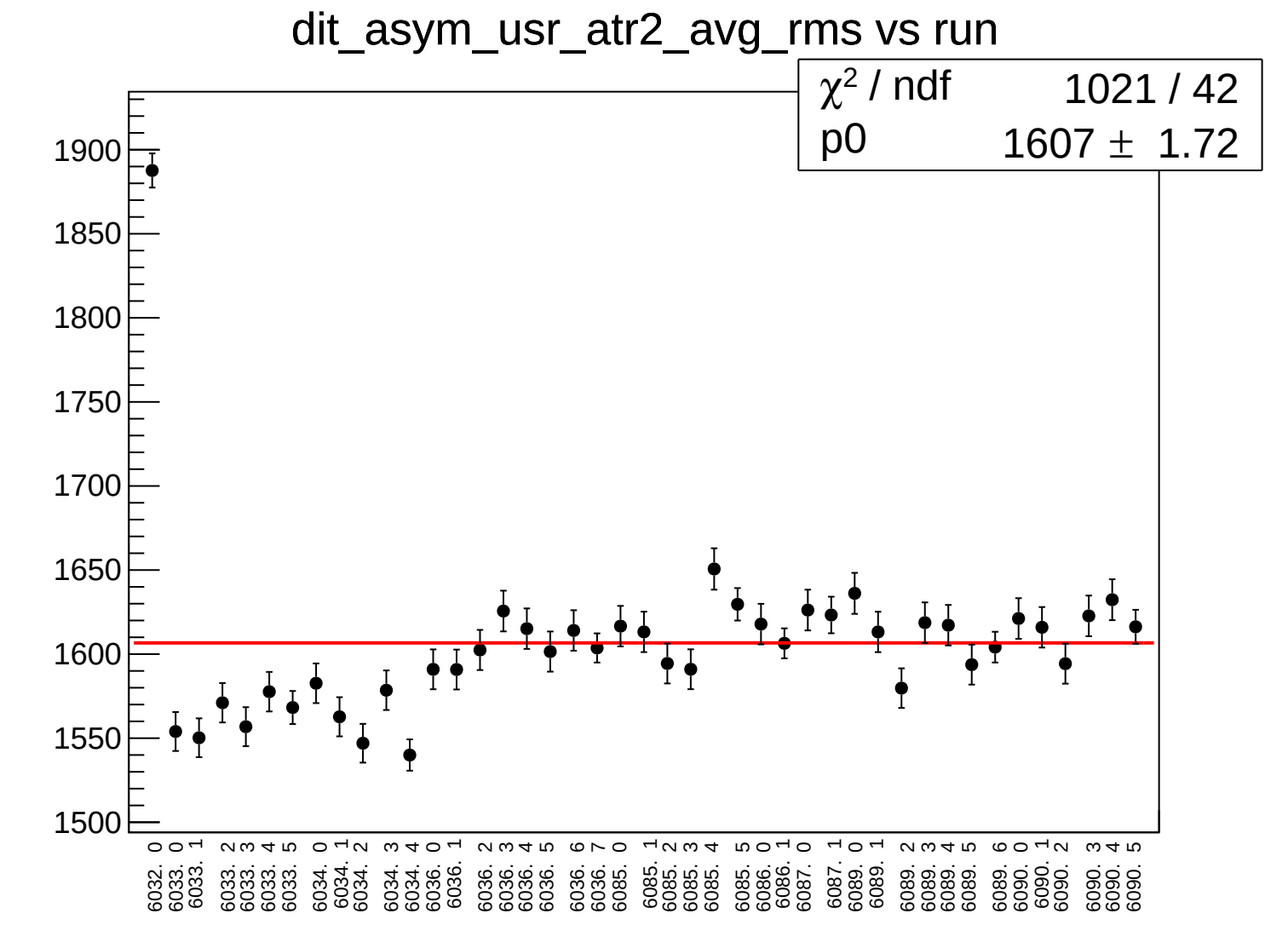

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.49 / 42
p0 944.1 ± 7186
pull
Entries 43
Mean −25.24
Std Dev 0

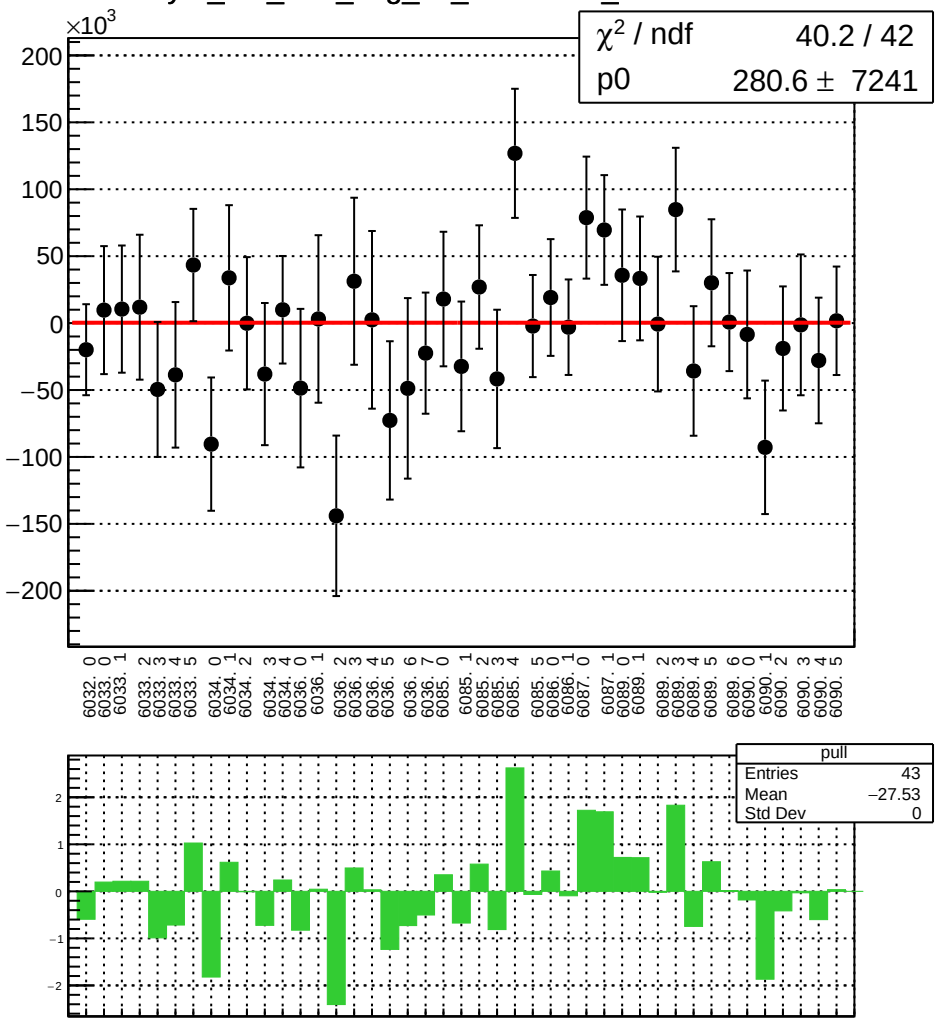

pull1D
Entries 43
Mean −0.03853
Std Dev 0.9697

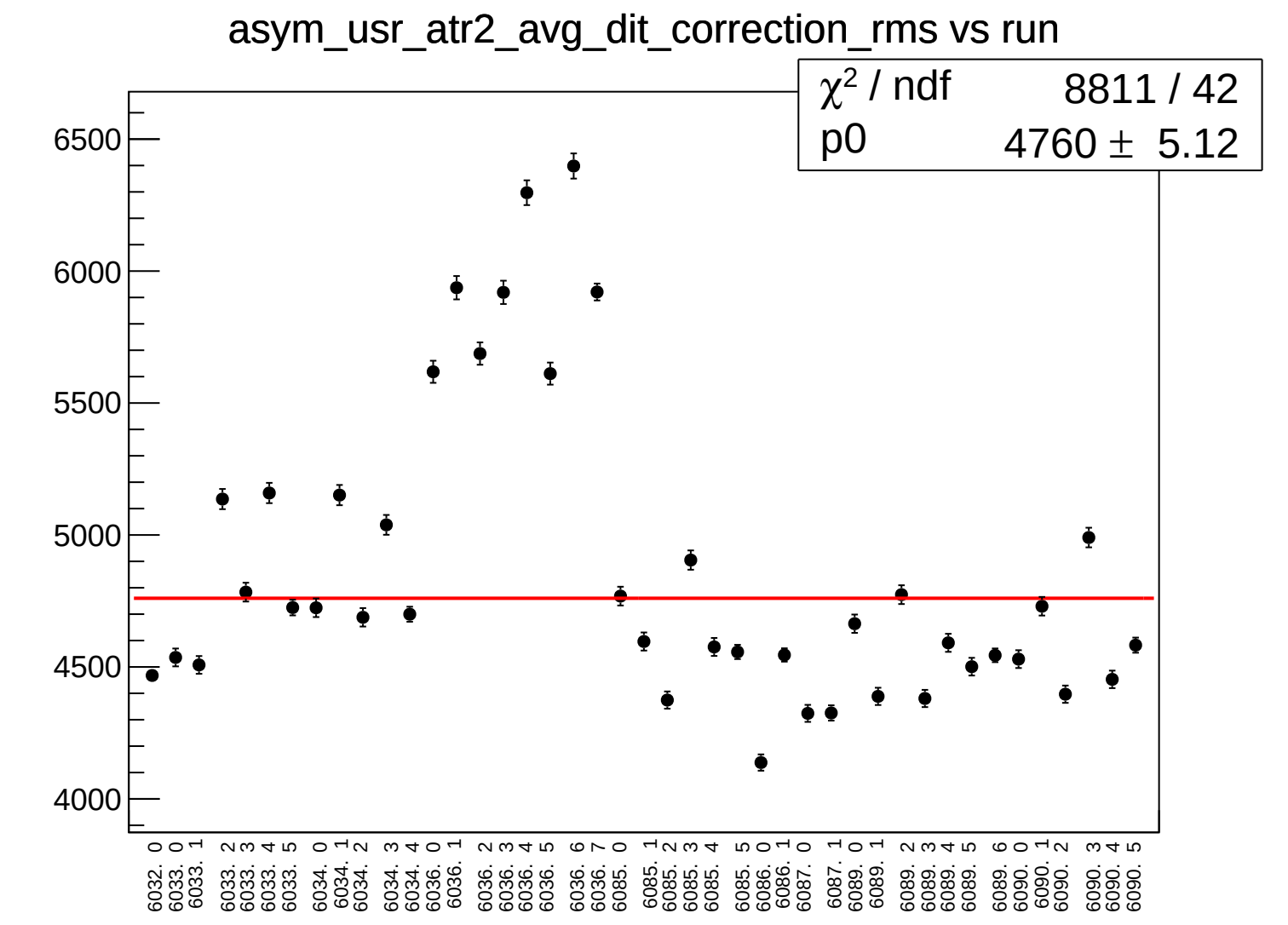

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8582 / 42
p0 4725 ± 5.082
6500
6000
5500
5000
4500
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

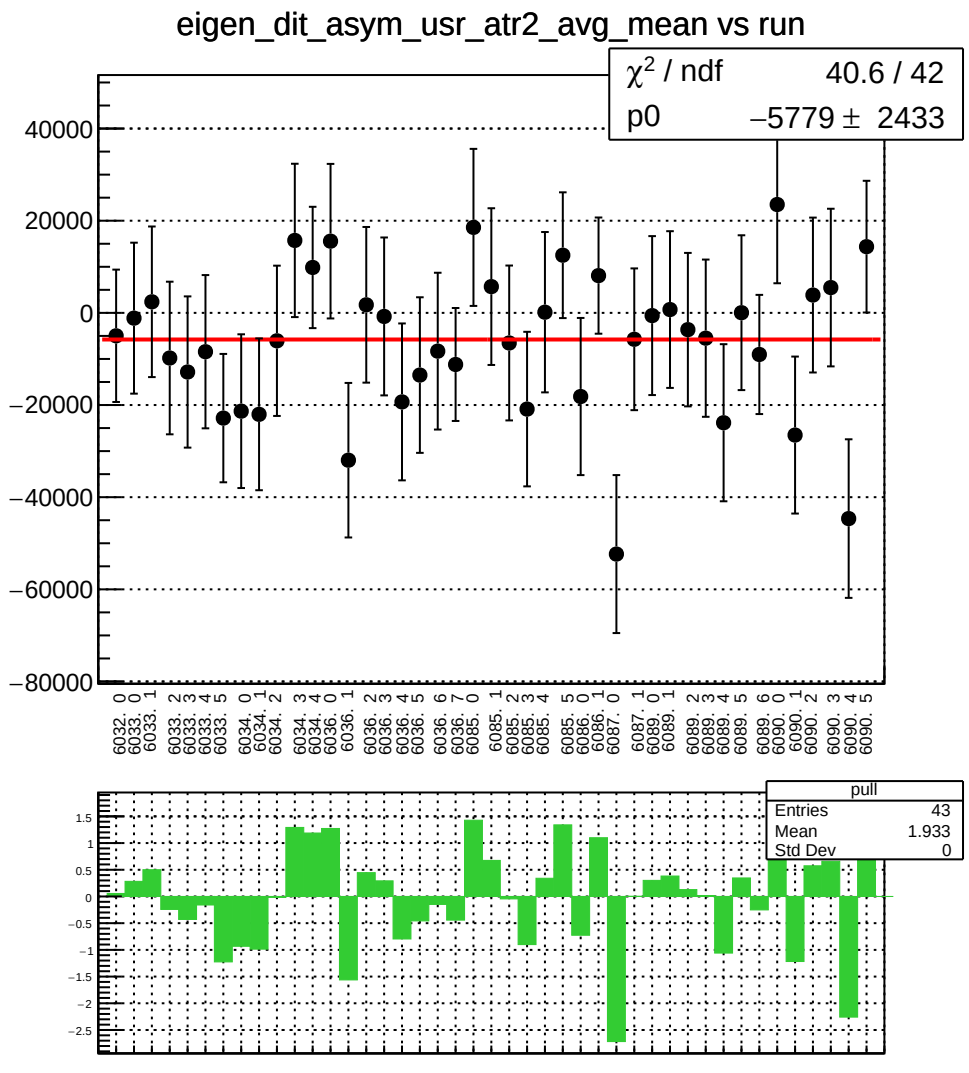

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 40.6 / 42
p0 −5779 ± 2433
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.933
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

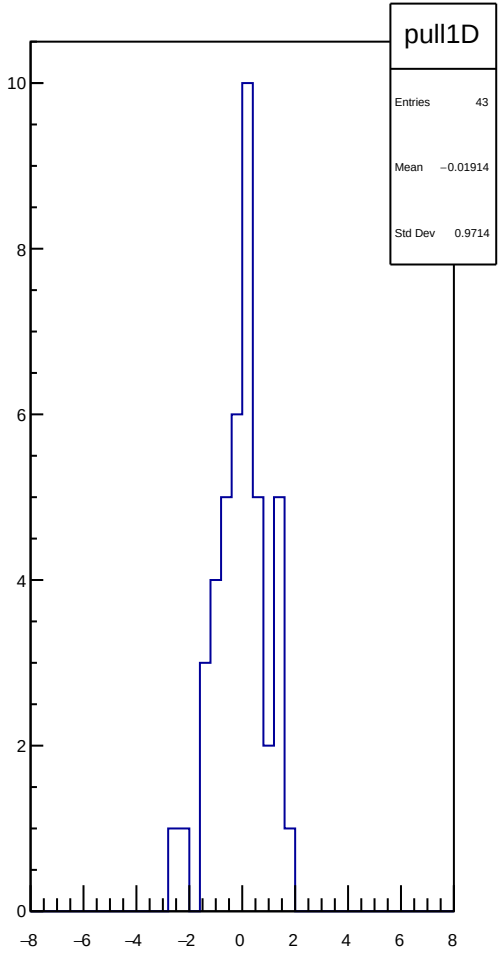

pull1D
Entries 43
Mean −0.01914
Std Dev 0.9714
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

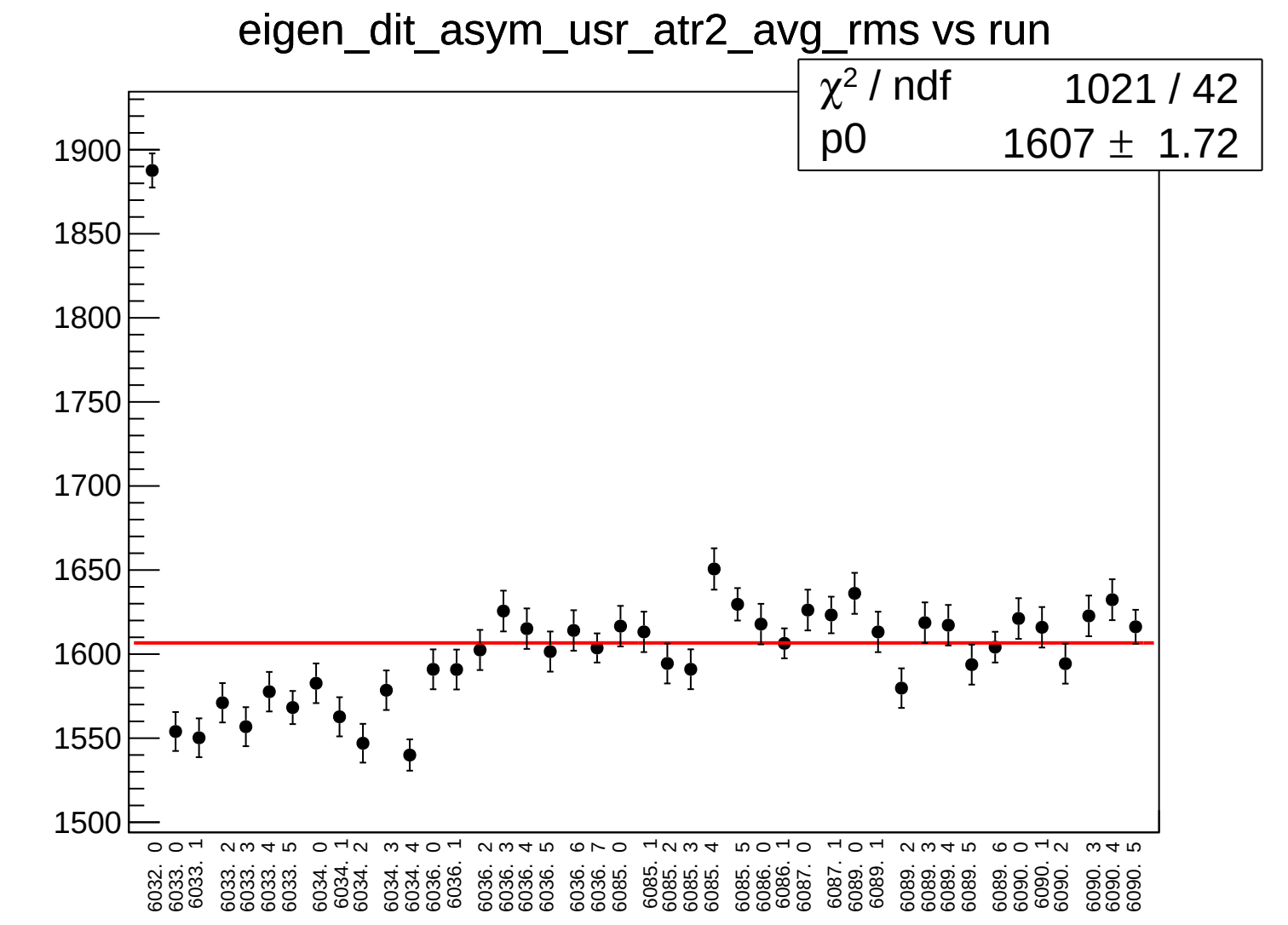

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1021 / 42
p0 1607 ± 1.72
1900
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

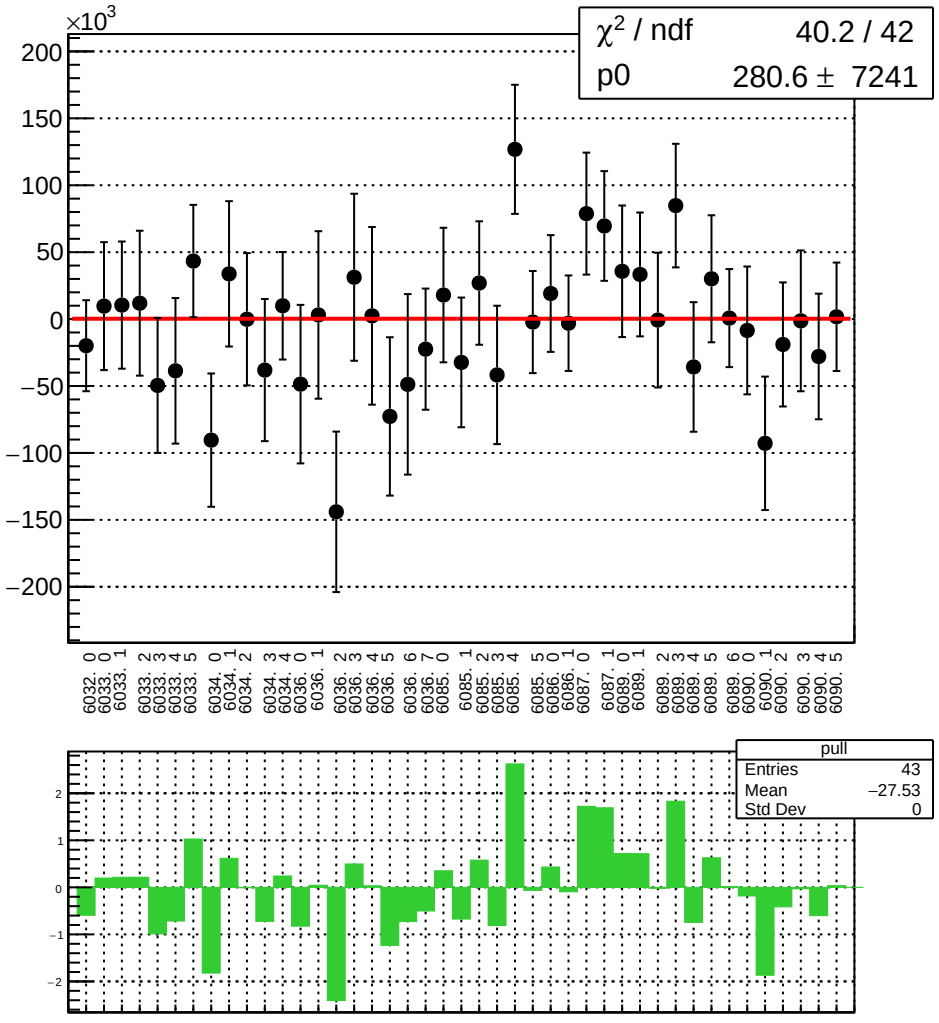

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 40.2 / 42
p0 280.6 ± 7241
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.53
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03774
Std Dev 0.9662
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

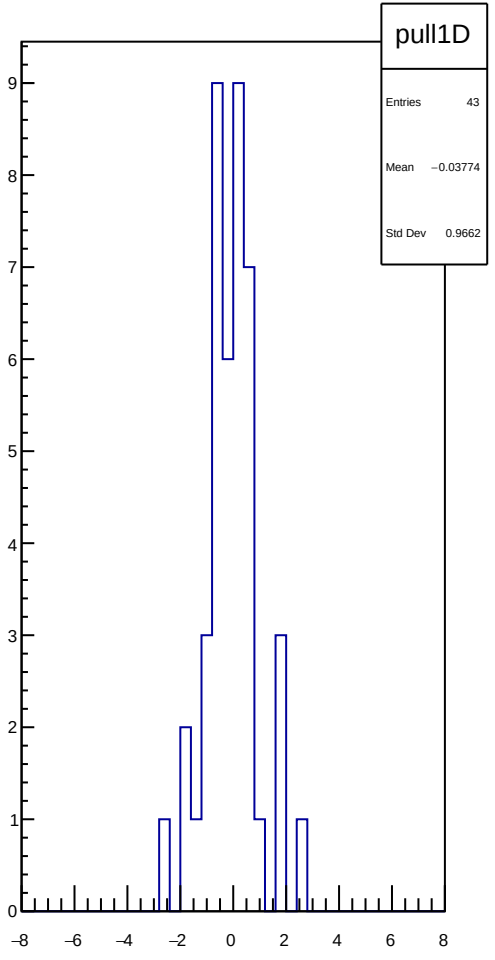

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 8811 / 42
p0 4760 ± 5.12
6500
6000
5500
5000
4500
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

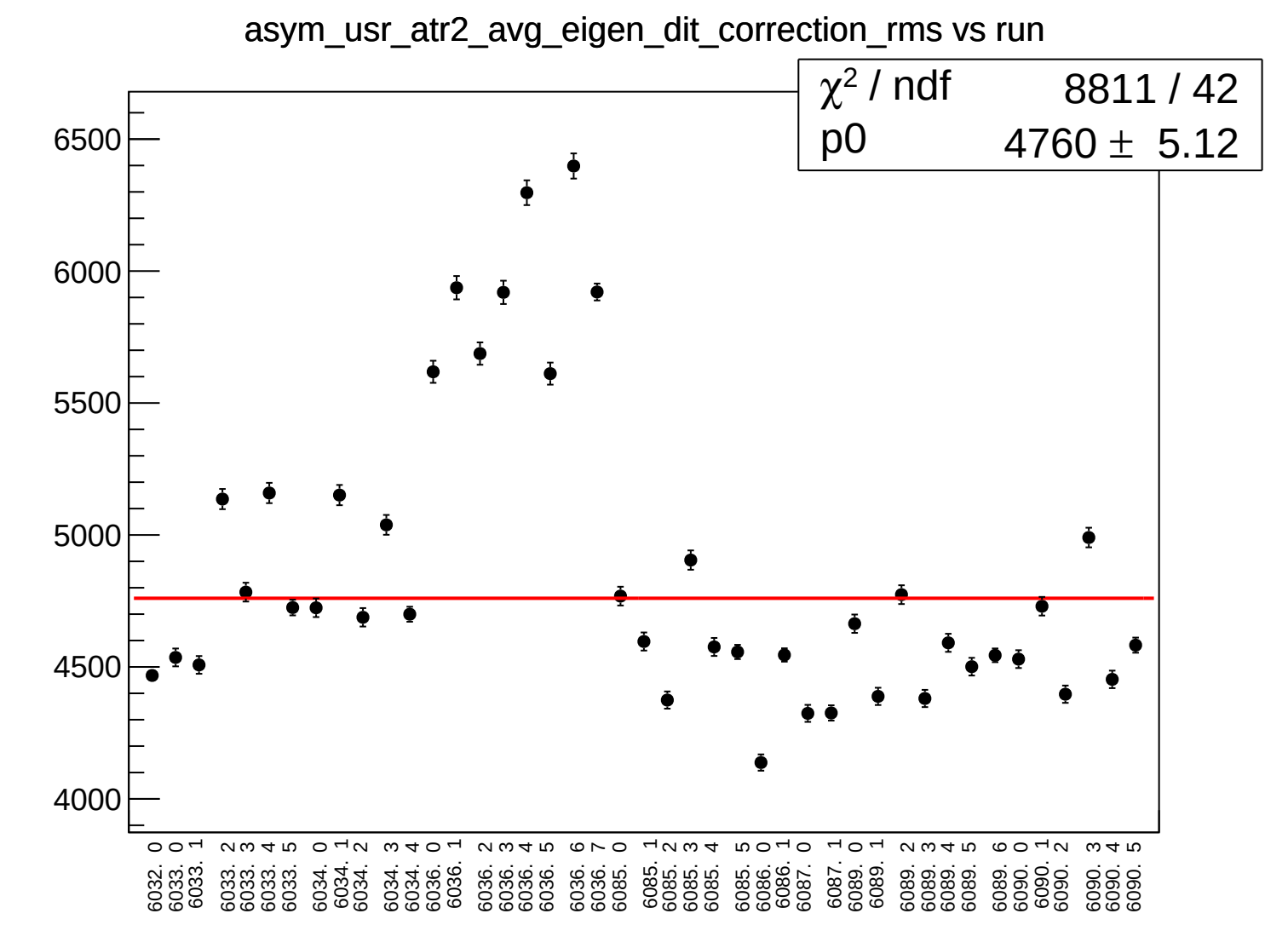

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 40.6 / 42
p0 −5779 ± 2433
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.933
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

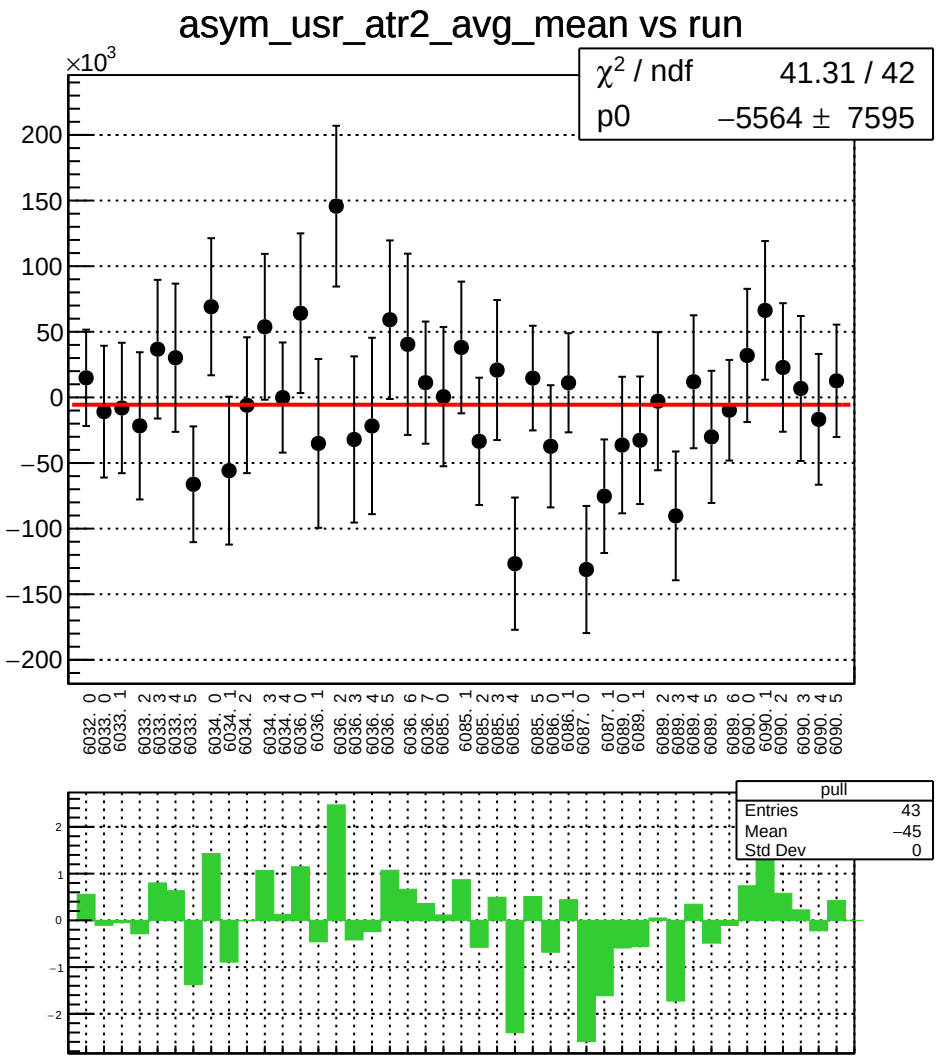

pull1D
Entries 43
Mean −0.01914
Std Dev 0.9714
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

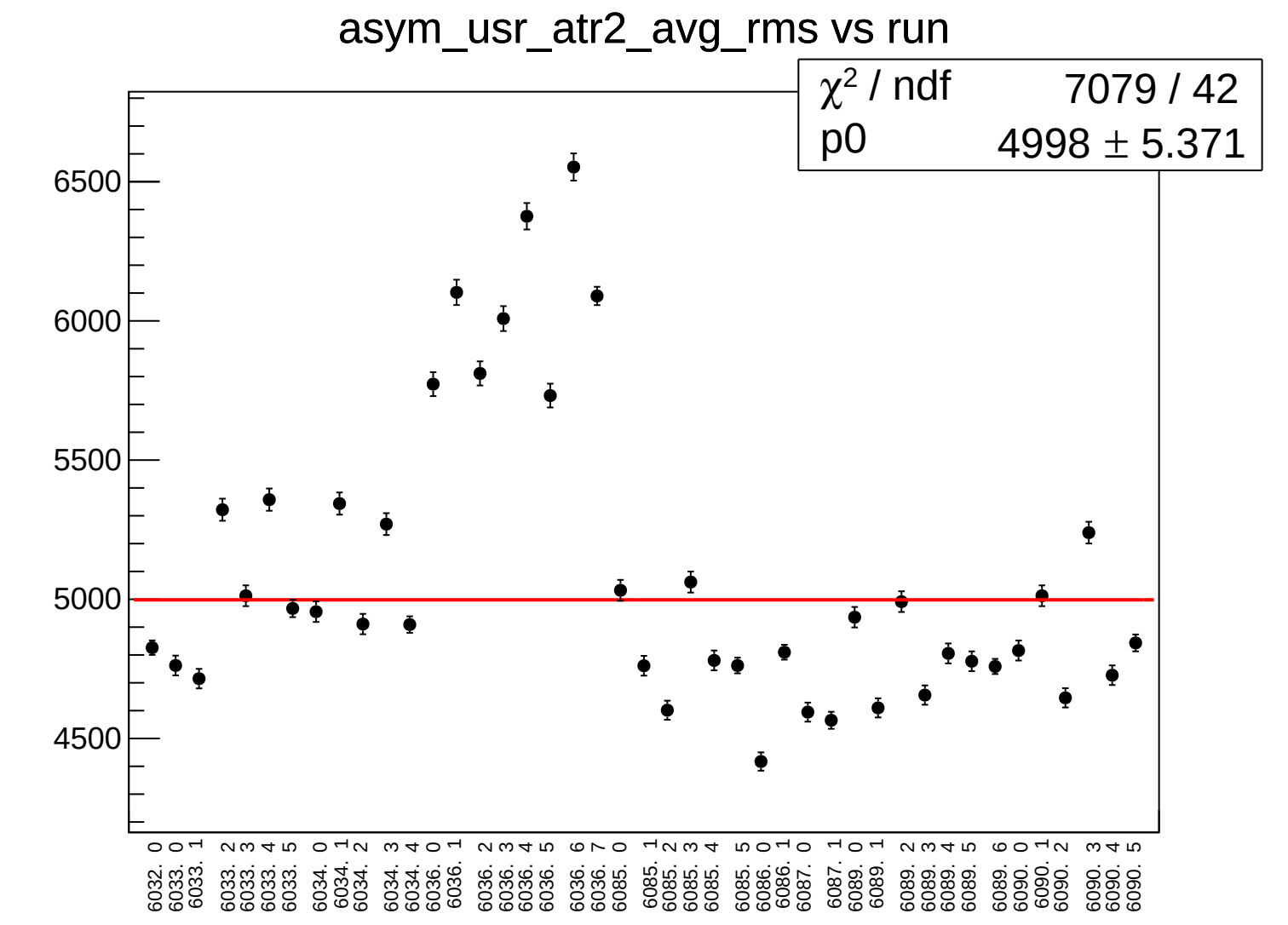

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1021 / 42
p0 1607 ± 1.72
1900
1850
1800
1750
1700
1650
1600
1550
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

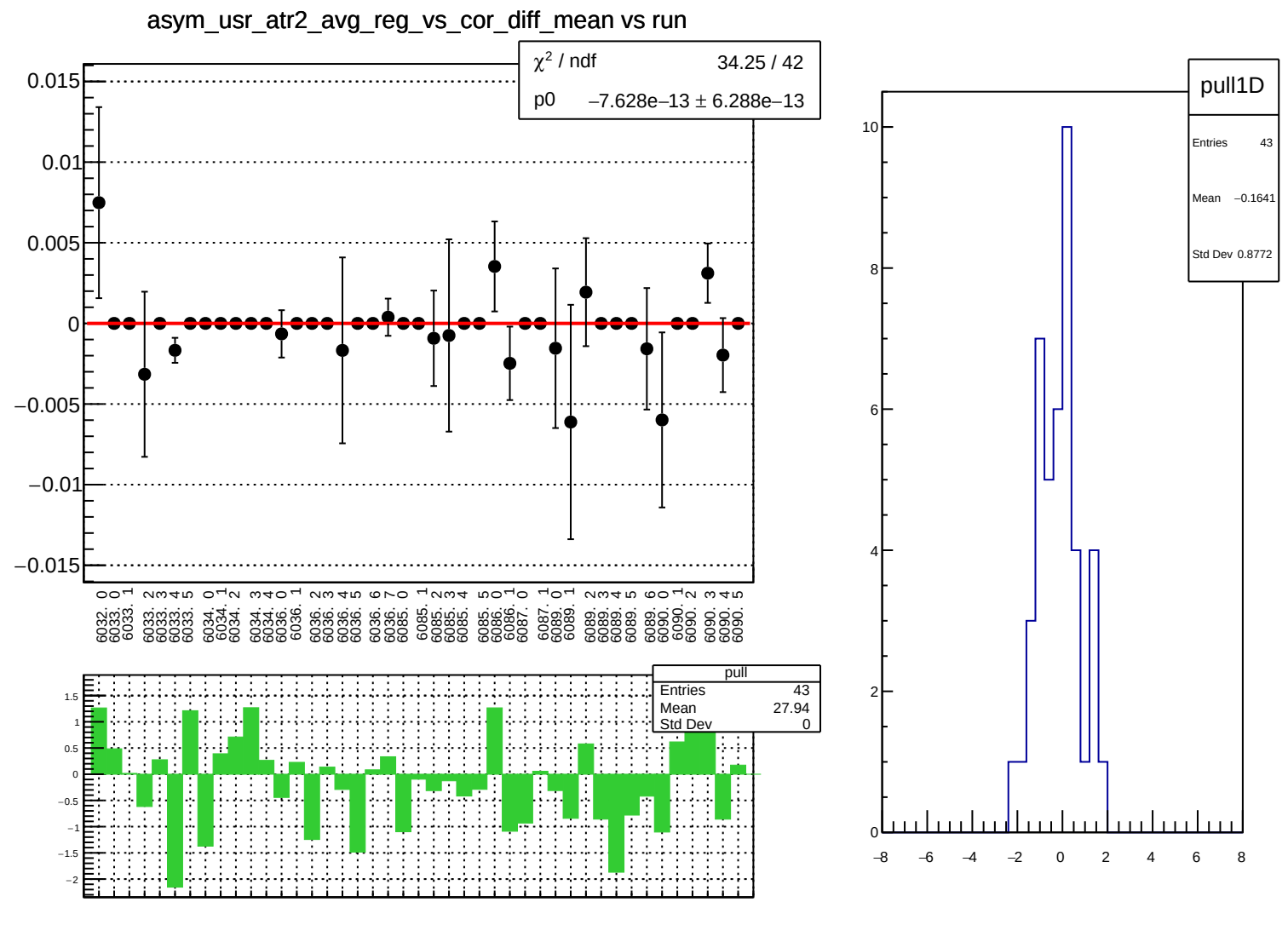

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 40.2 / 42
p0 280.6 ± 7241
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.53
Std Dev 0
2
1
0
−1
−2

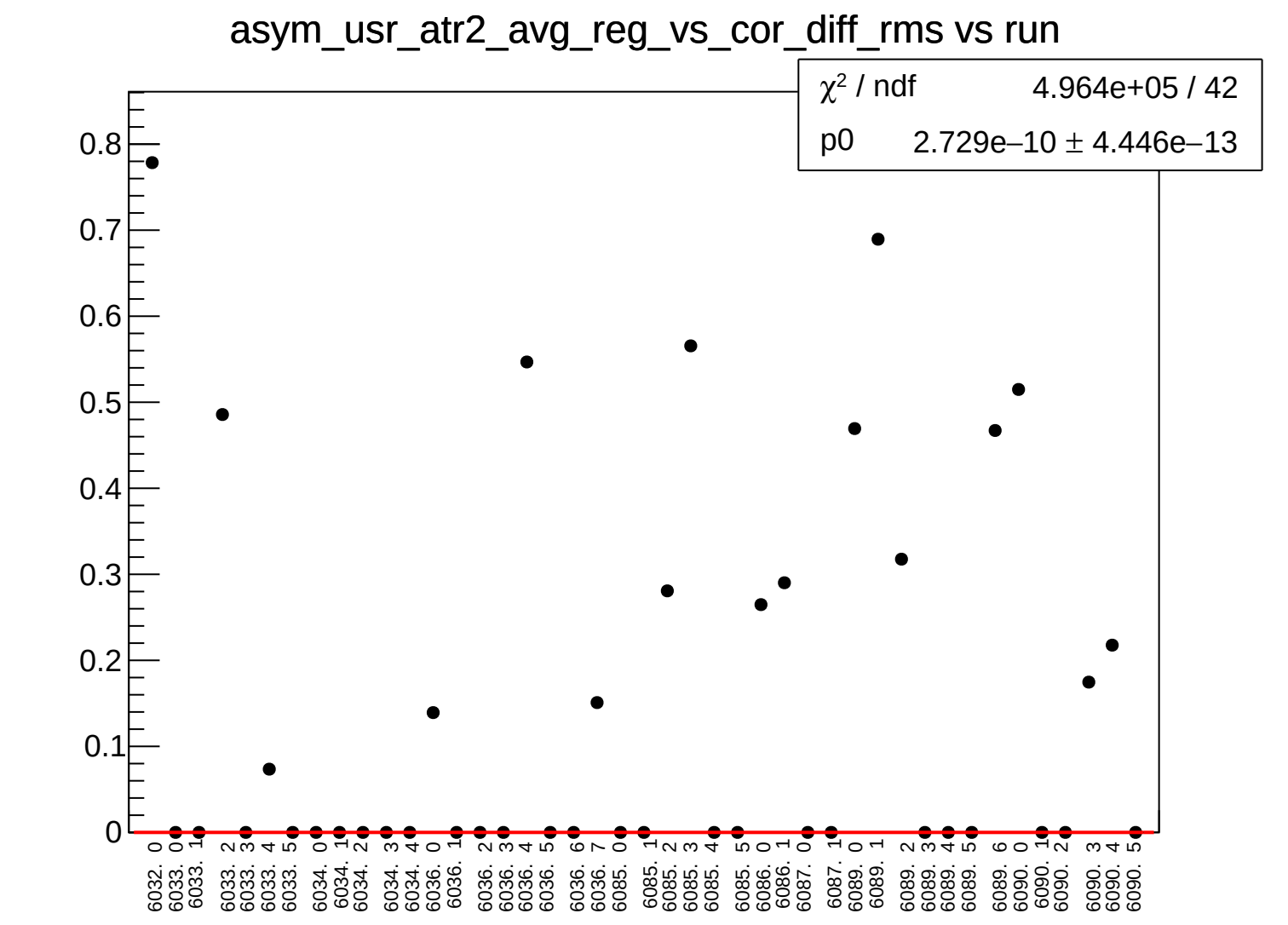

pull1D
Entries 43
Mean −0.03774
Std Dev 0.9662
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

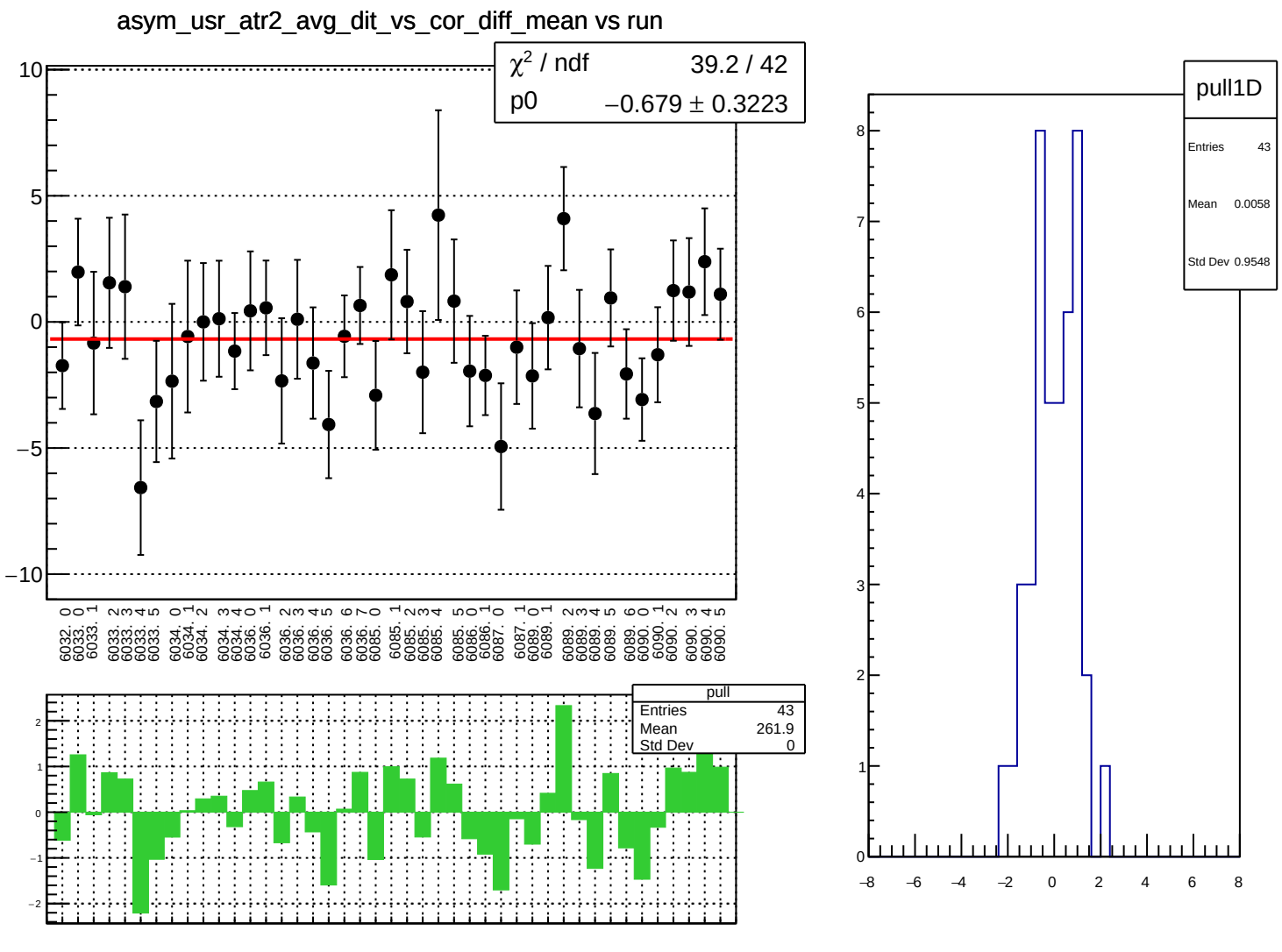

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8811 / 42
p0 4760 ± 5.12
6500
6000
5500
5000
4500
4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

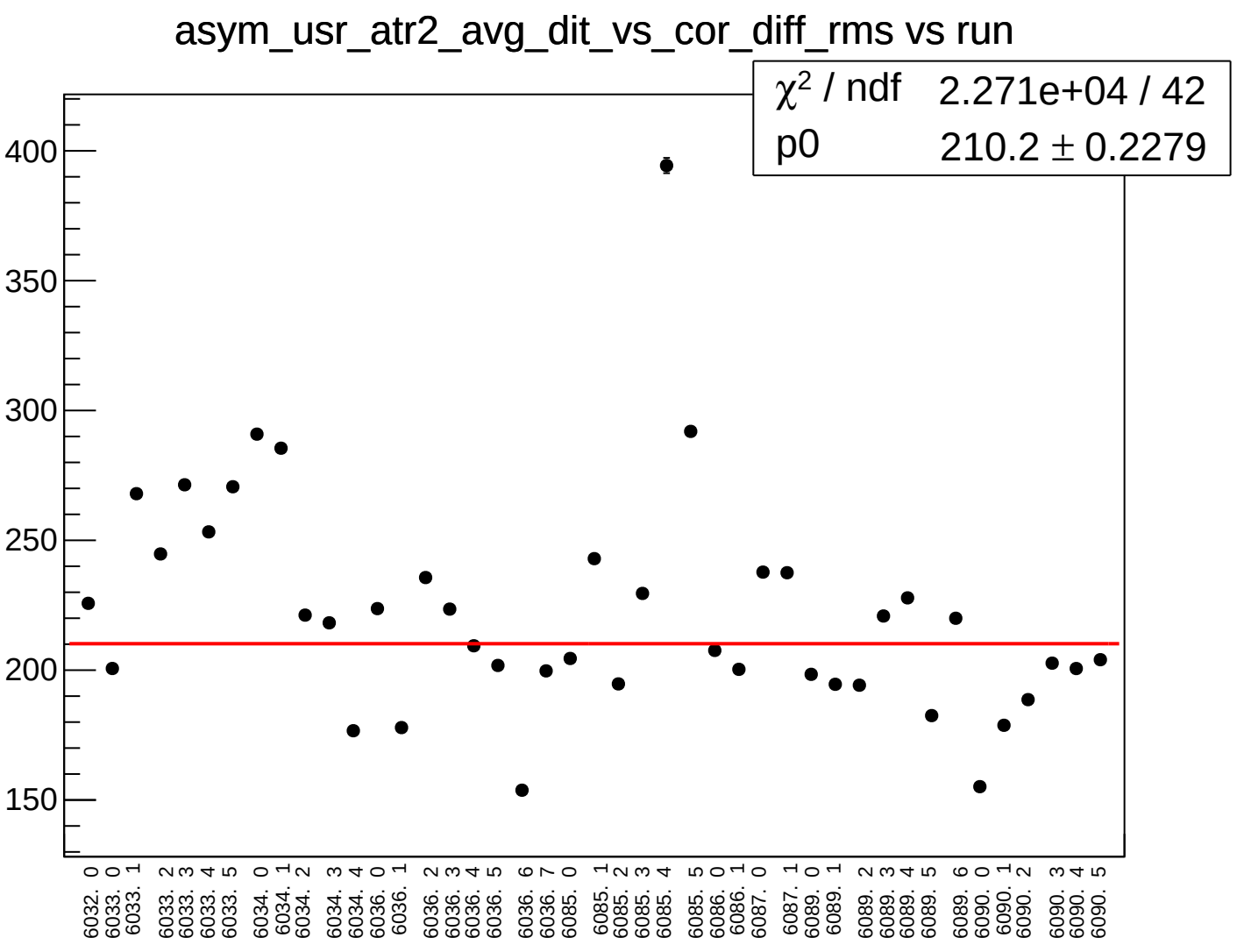

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 41.31 / 42
p0 −5564 ± 7595
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02547
Std Dev 0.9798
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

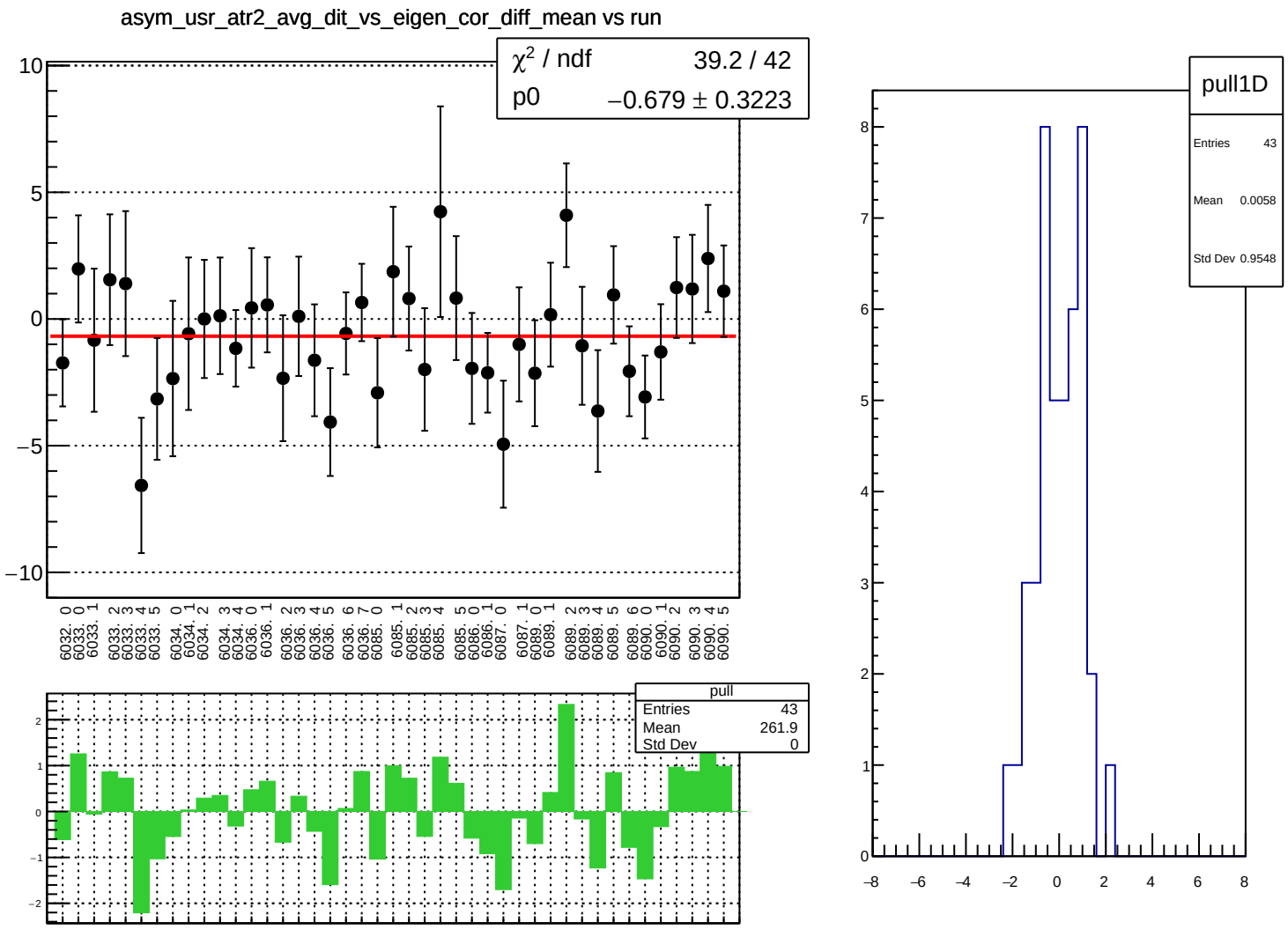

asym_usr_atr2_avg_rms vs run
χ² / ndf 7079 / 42
p0 4998 ± 5.371
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

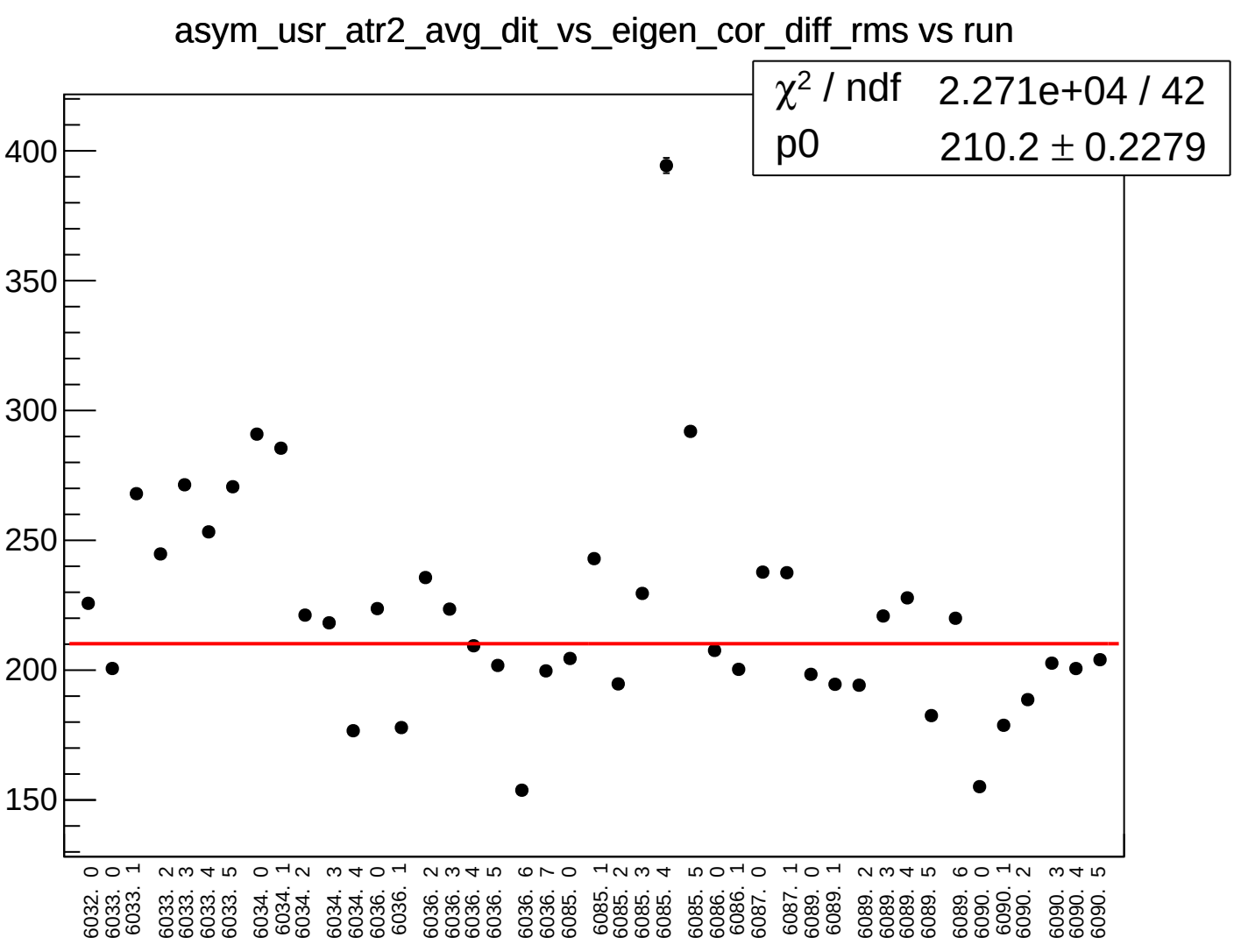

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.25 / 42
p0 −7.628e−13 ± 6.288e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 27.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1641
Std Dev 0.8772
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

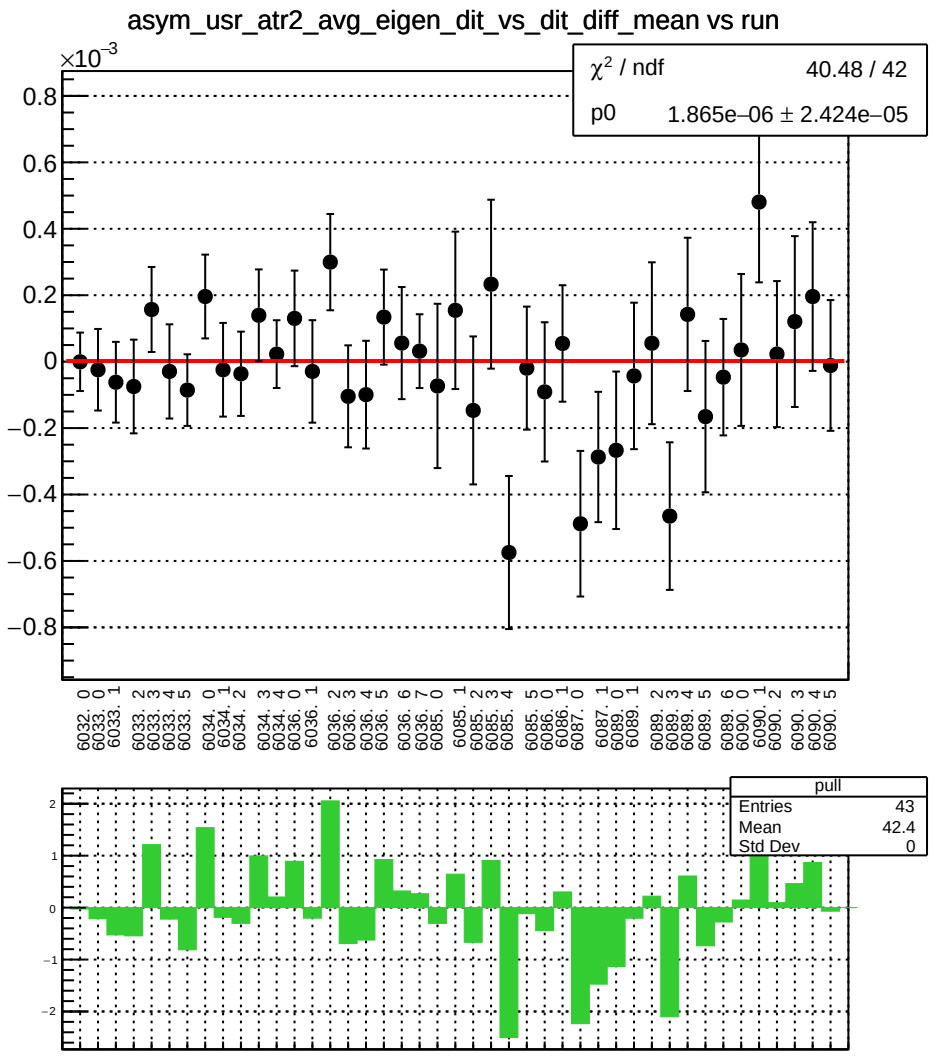

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.964e+05 / 42
p0 2.729e−10 ± 4.446e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

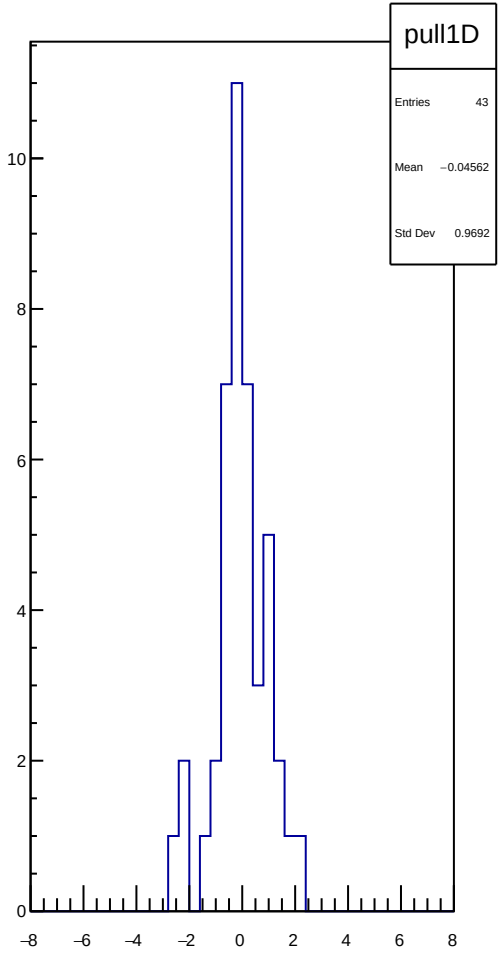

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.2 / 42
p0 −0.679 ± 0.3223
pull
Entries 43
Mean 261.9
Std Dev 0
pull1D
Entries 43
Mean 0.0058
Std Dev 0.9548

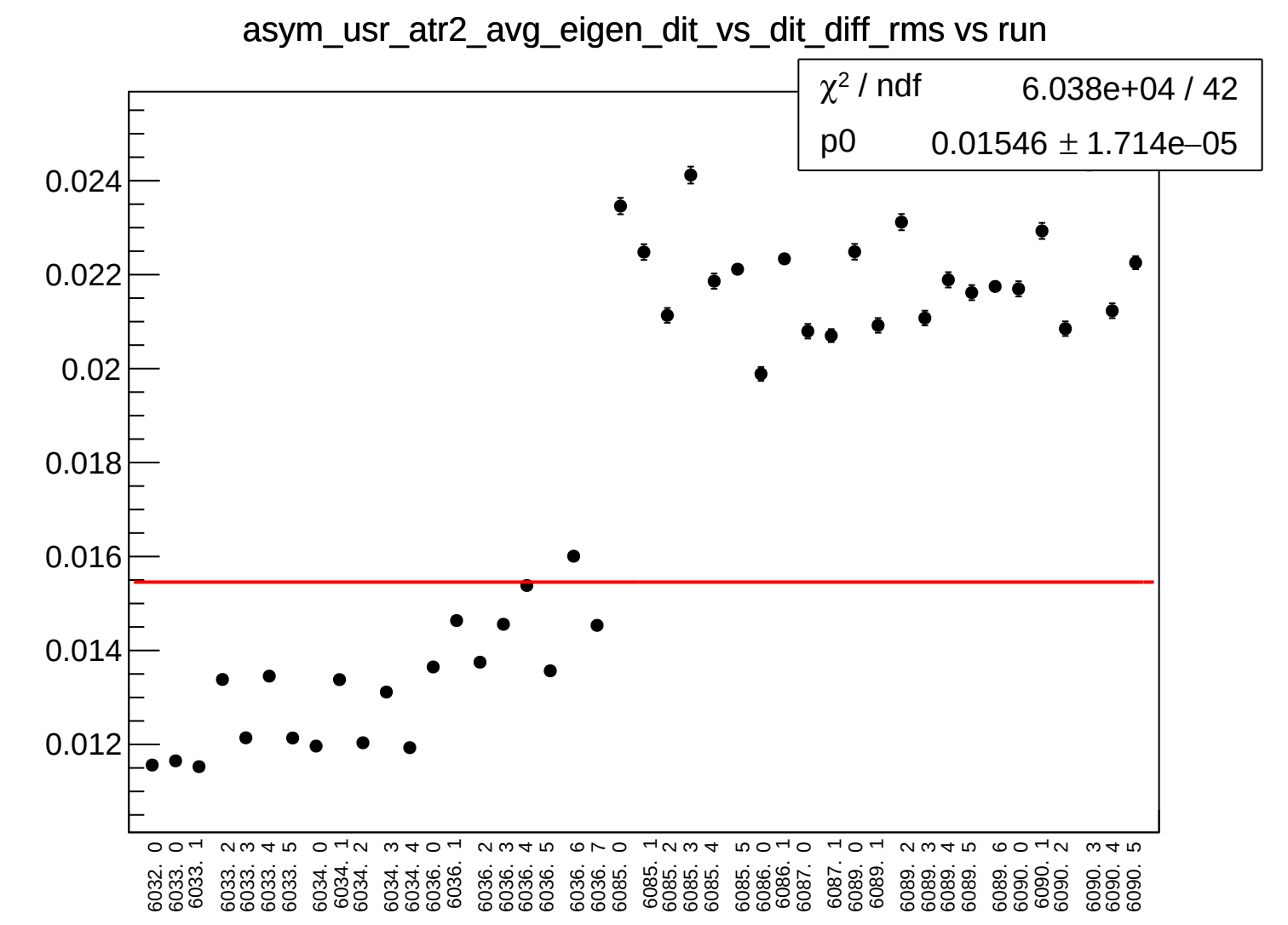

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.271e+04 / 42
p0 210.2 ± 0.2279
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

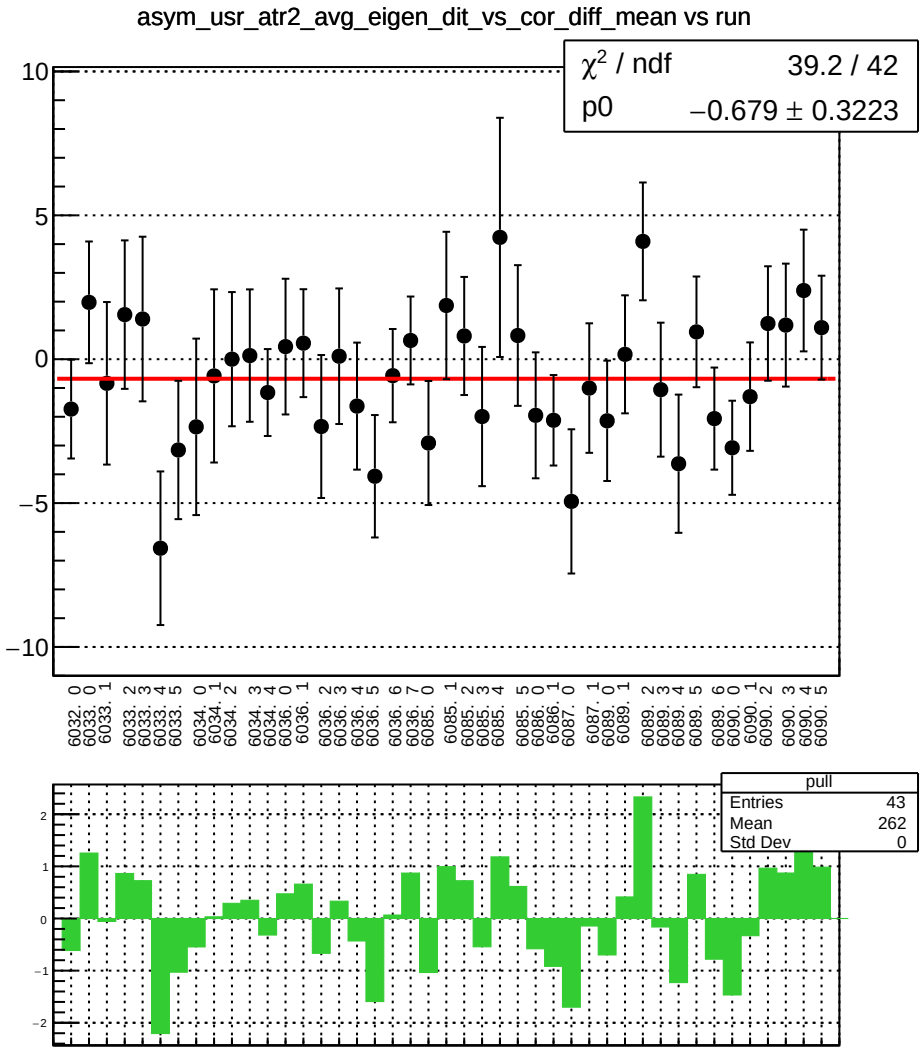

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.2 / 42
p0 −0.679 ± 0.3223
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 261.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0058
Std Dev 0.9548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

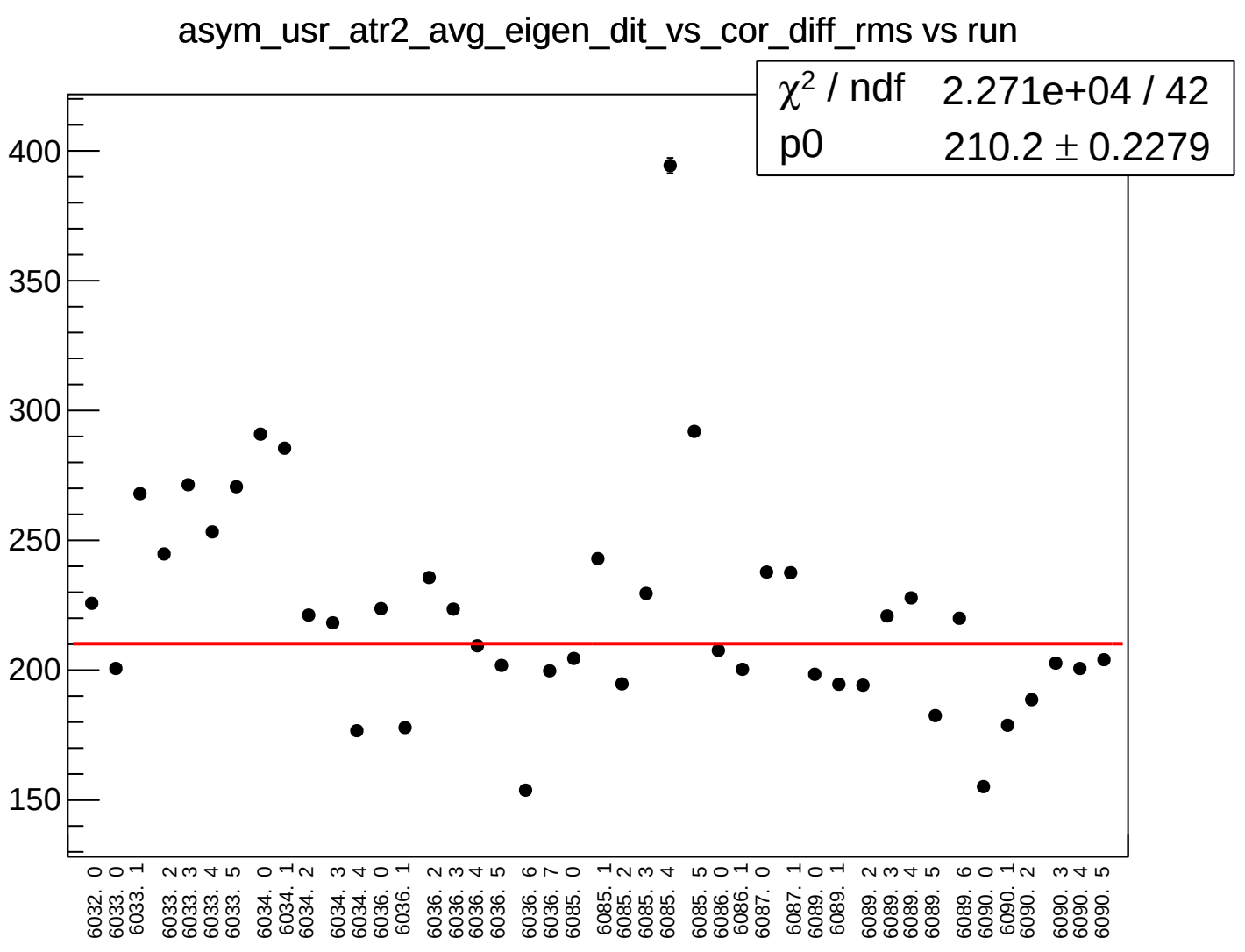

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.271e+04 / 42
p0 210.2 ± 0.2279
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

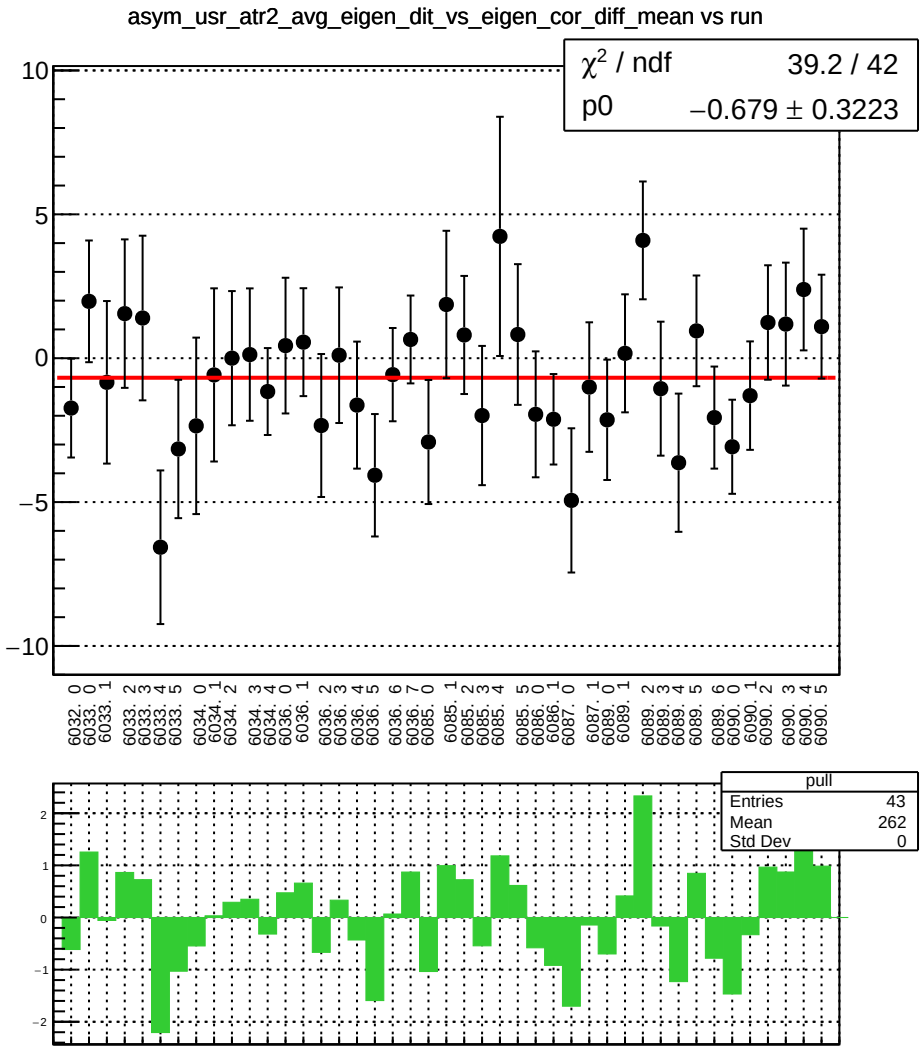

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.48 / 42
p0 1.865e−06 ± 2.424e−05
pull
Entries 43
Mean 42.4
Std Dev 0

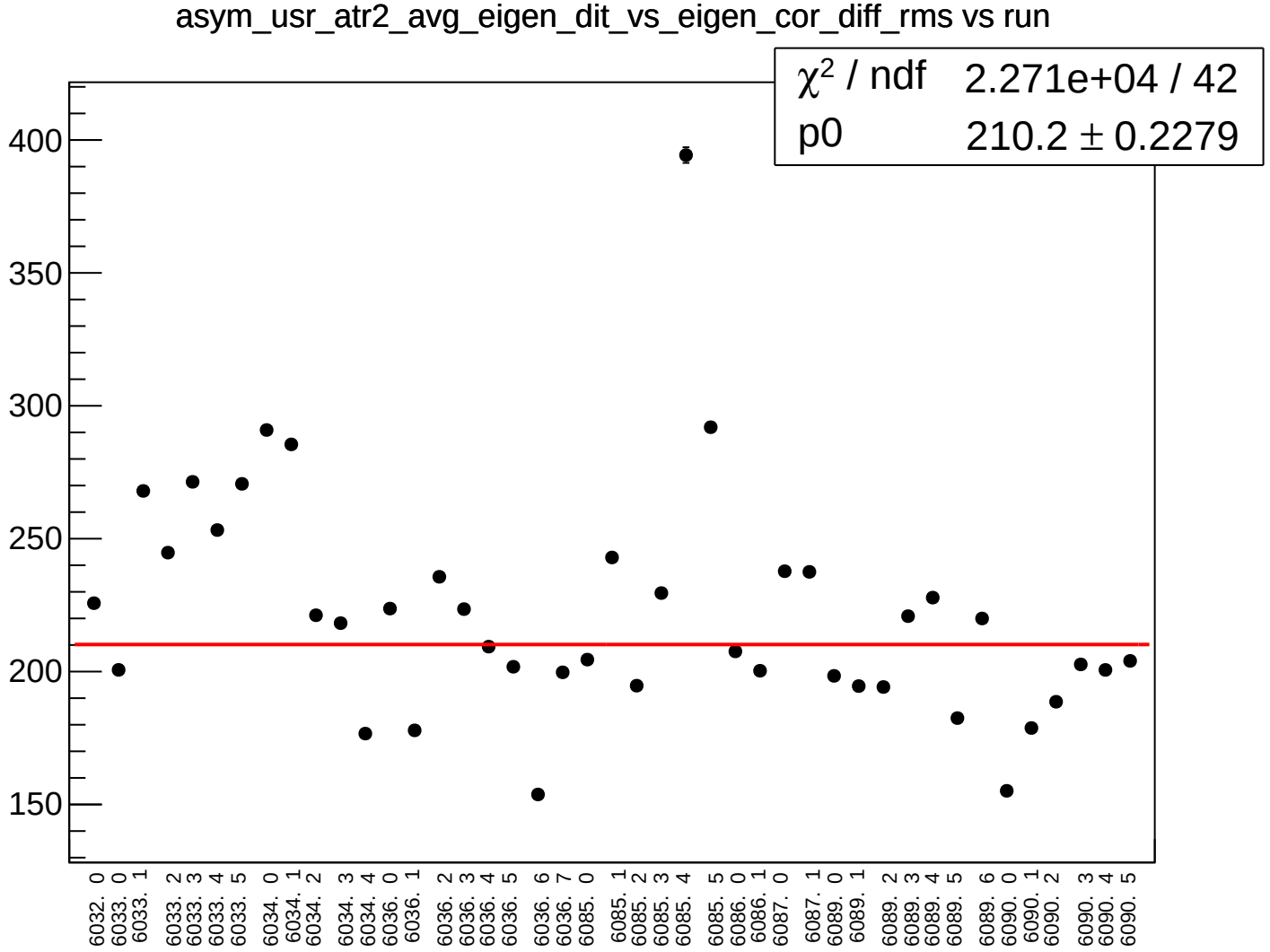

pull1D
Entries 43
Mean −0.04562
Std Dev 0.9692

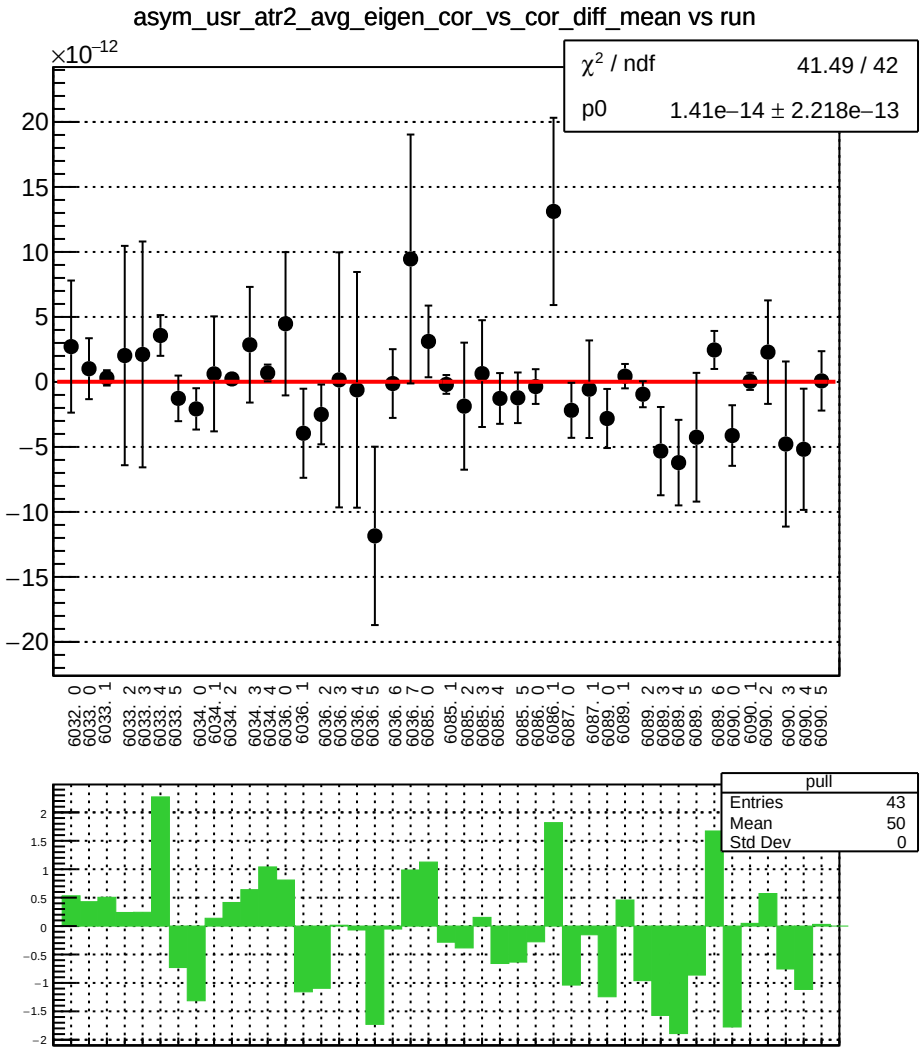

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.038e+04 / 42
p0 0.01546 ± 1.714e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

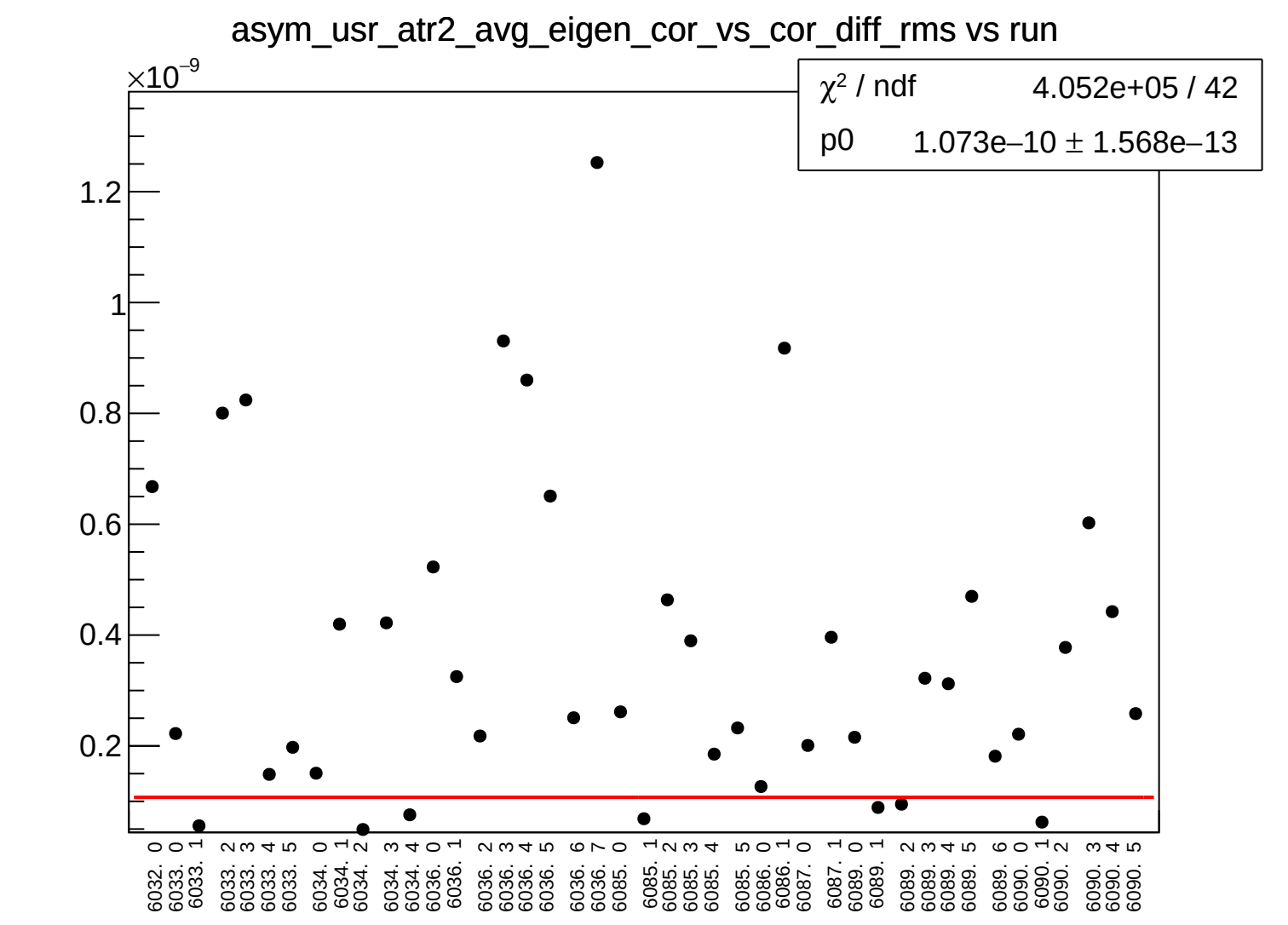

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.2 / 42
p0 −0.679 ± 0.3223
pull
Entries 43
Mean 262
Std Dev 0
pull1D
Entries 43
Mean 0.005797
Std Dev 0.9548

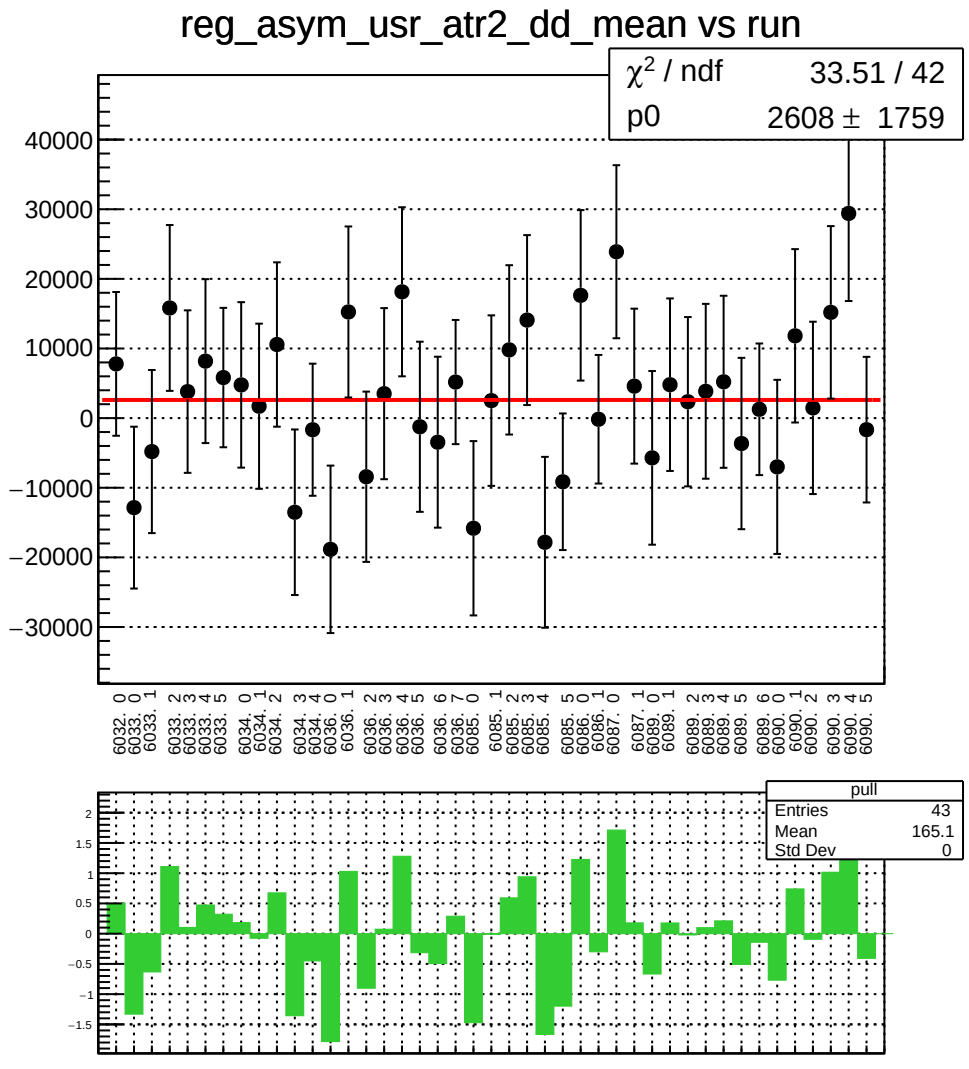

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.271e+04 / 42
p0 210.2 ± 0.2279
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

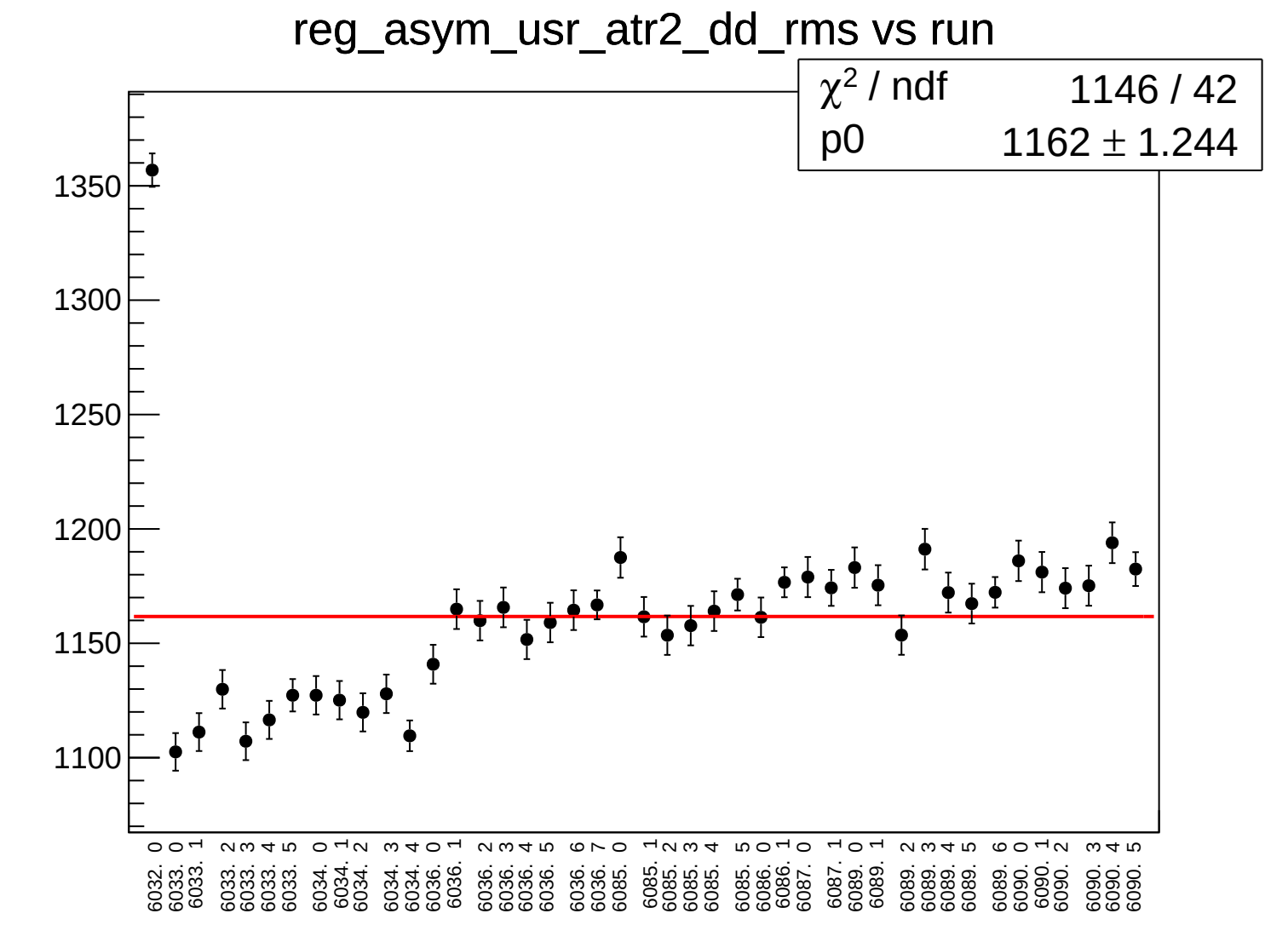

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.2 / 42
p0 −0.679 ± 0.3223
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 262
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005797
Std Dev 0.9548
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

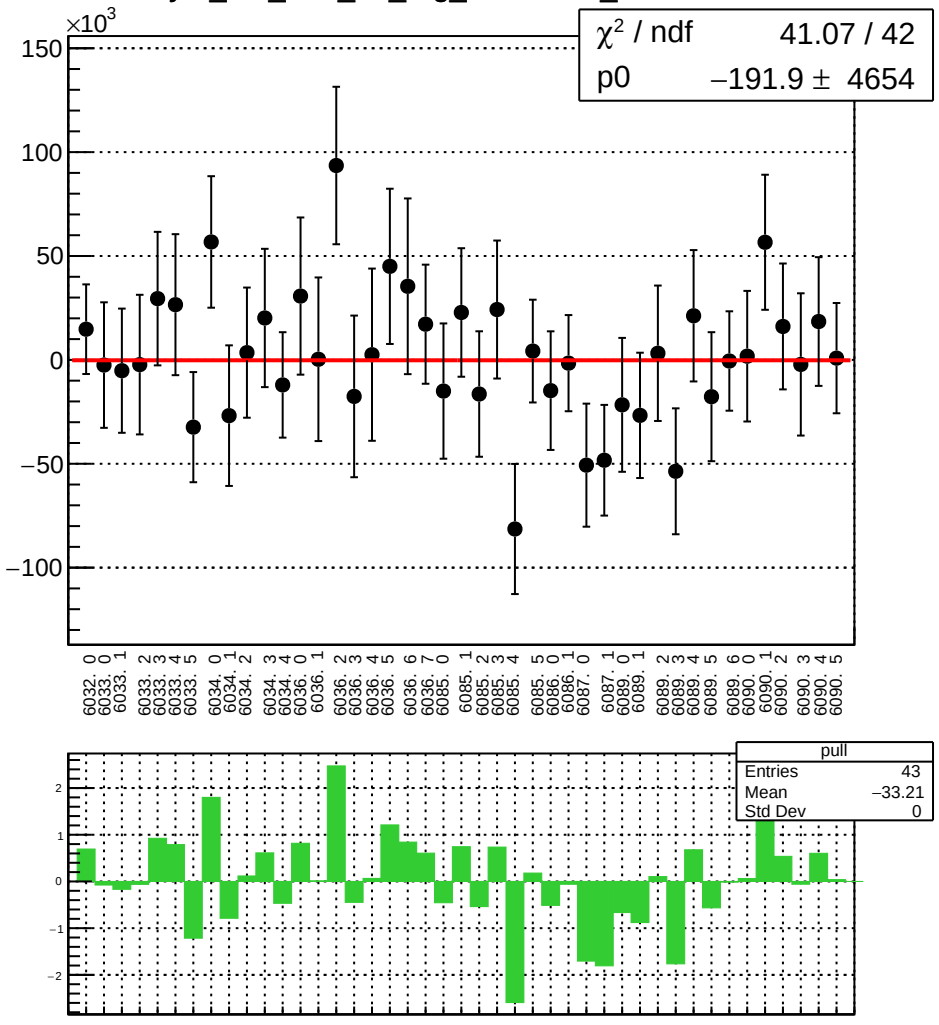

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.271e+04 / 42
p0 210.2 ± 0.2279
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

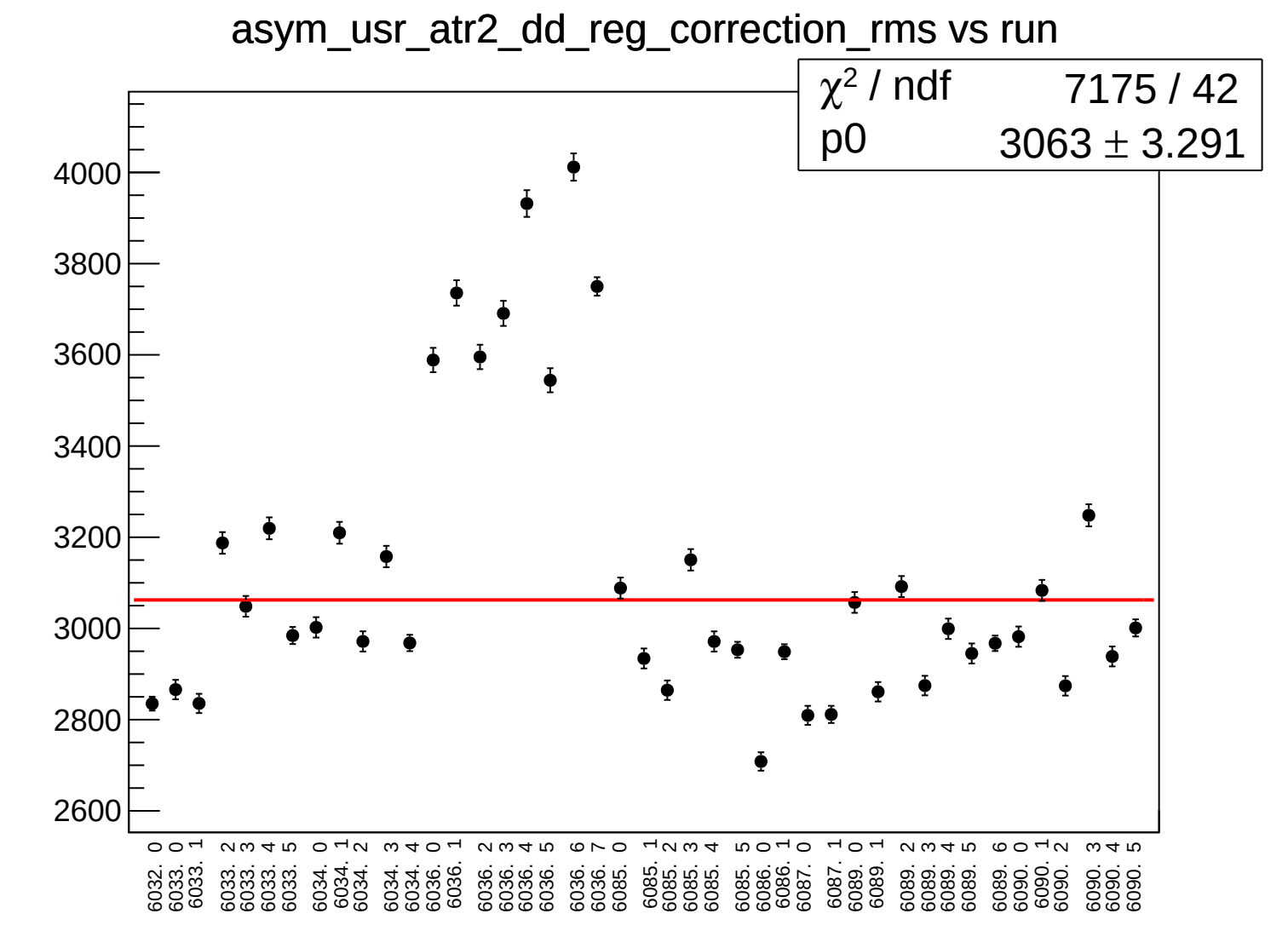

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.49 / 42
p0 1.41e−14 ± 2.218e−13
pull
Entries 43
Mean 50
Std Dev 0
pull1D
Entries 43
Mean −0.1302
Std Dev 0.9736

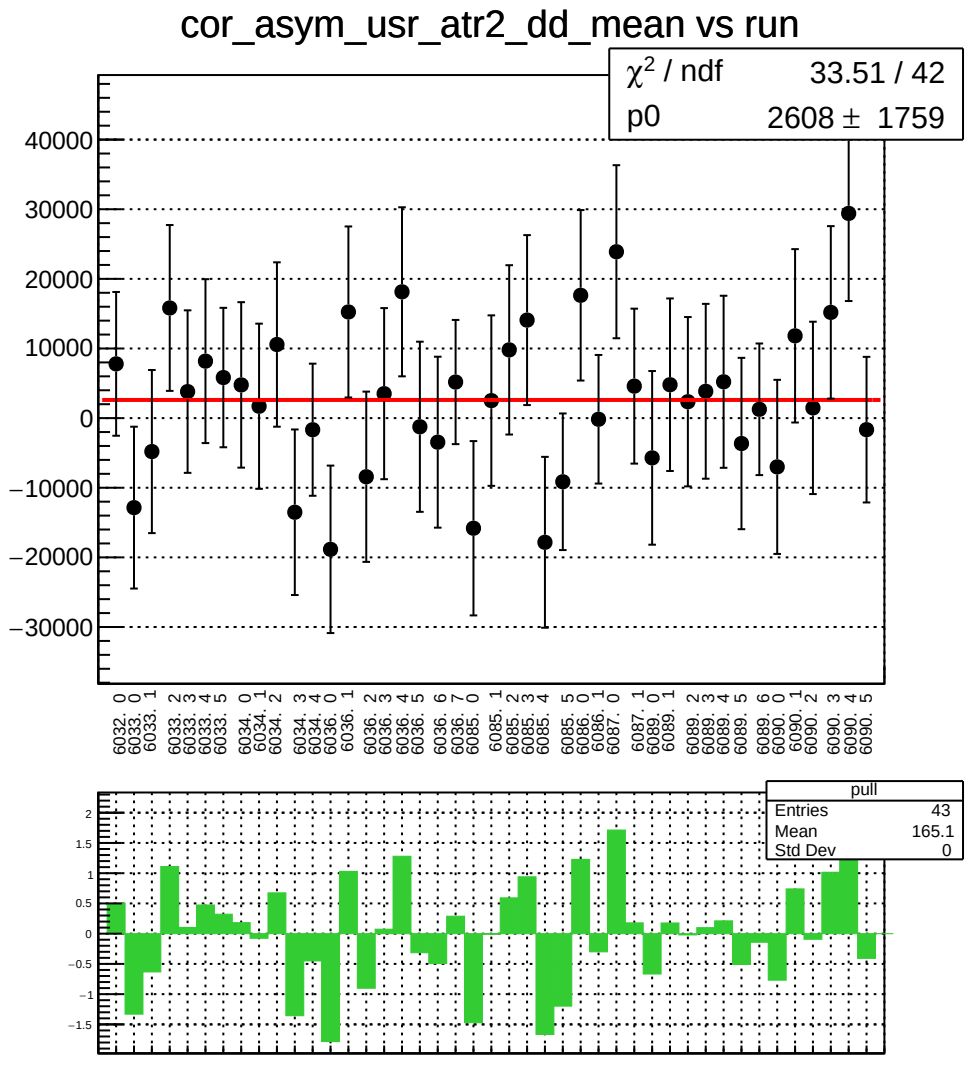

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.052e+05 / 42
p0 1.073e−10 ± 1.568e−13
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

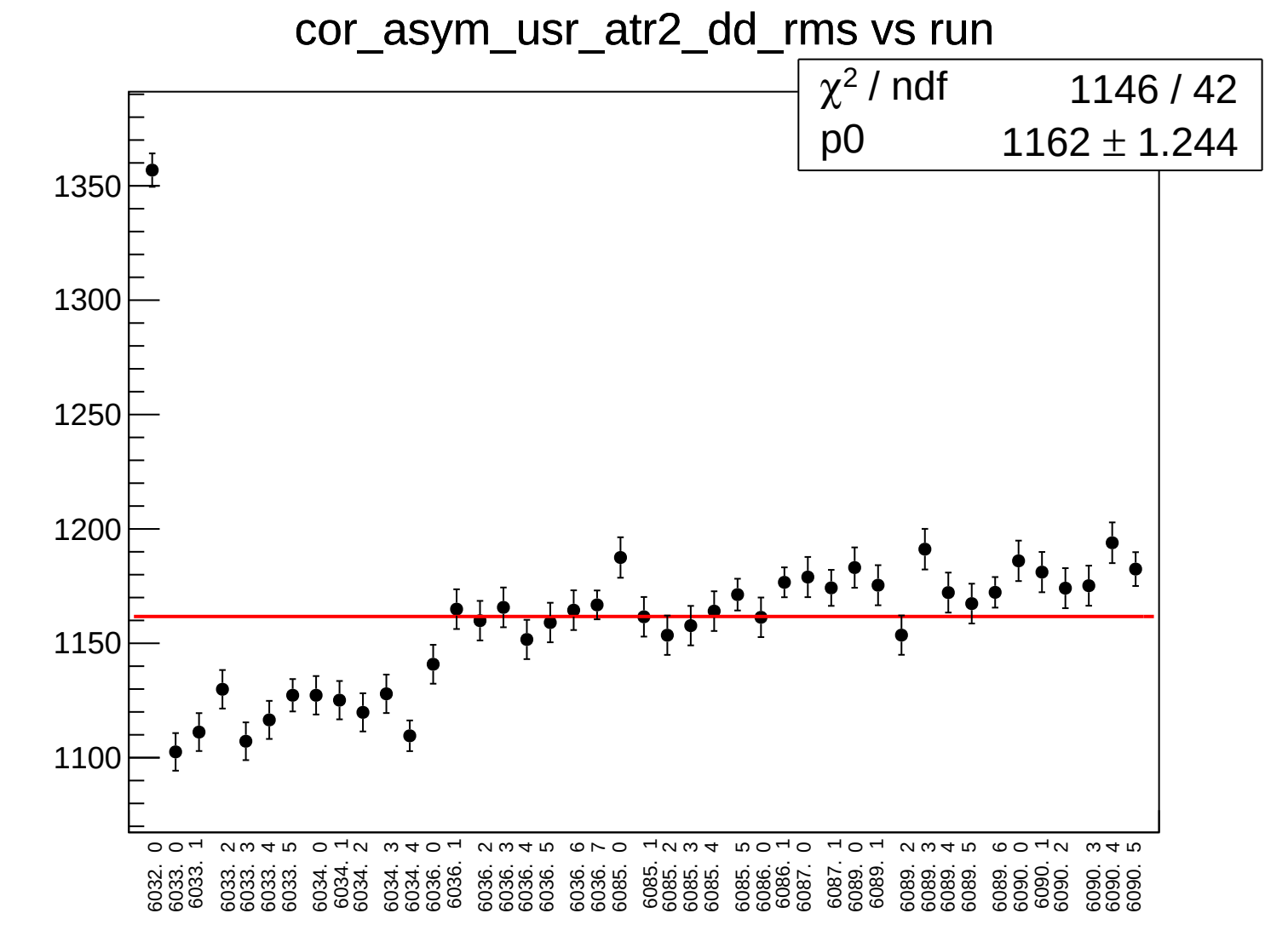

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 33.51 / 42
p0 2608 ± 1759
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 165.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0109
Std Dev 0.8828
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

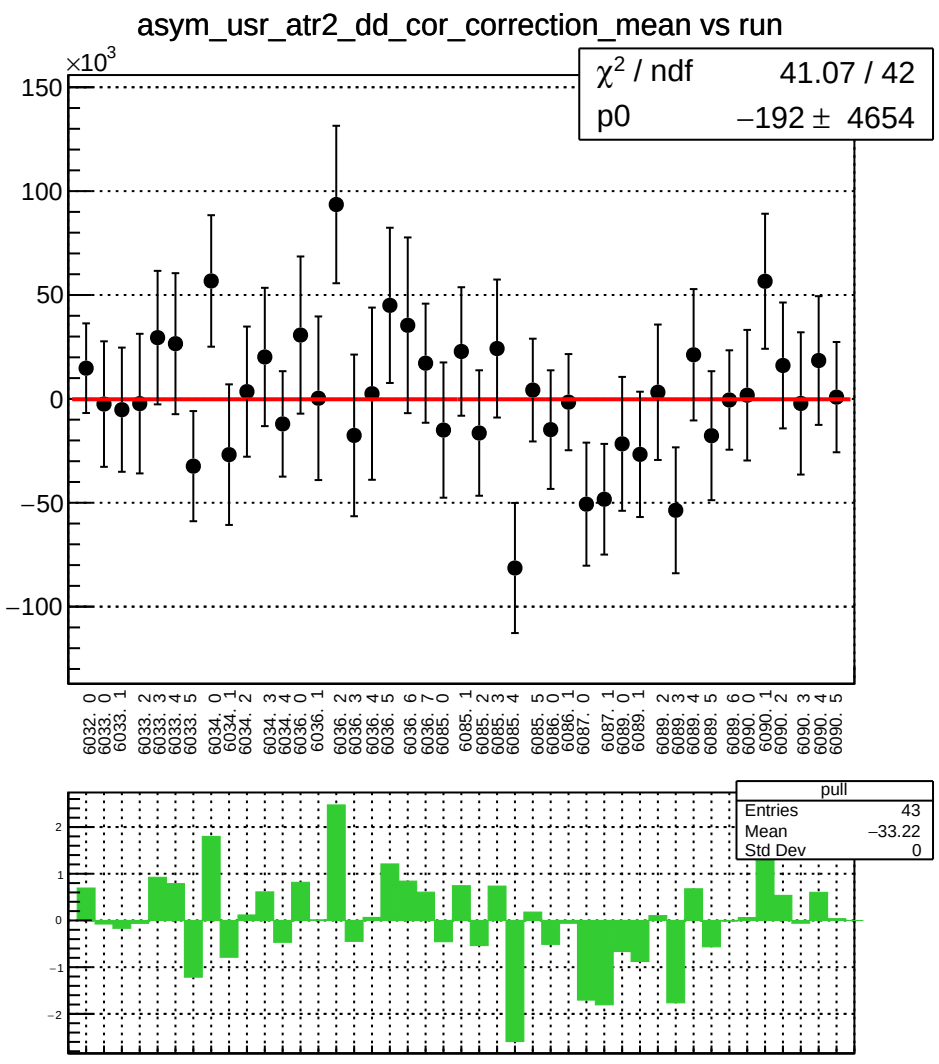

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1146 / 42
p0 1162 ± 1.244
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

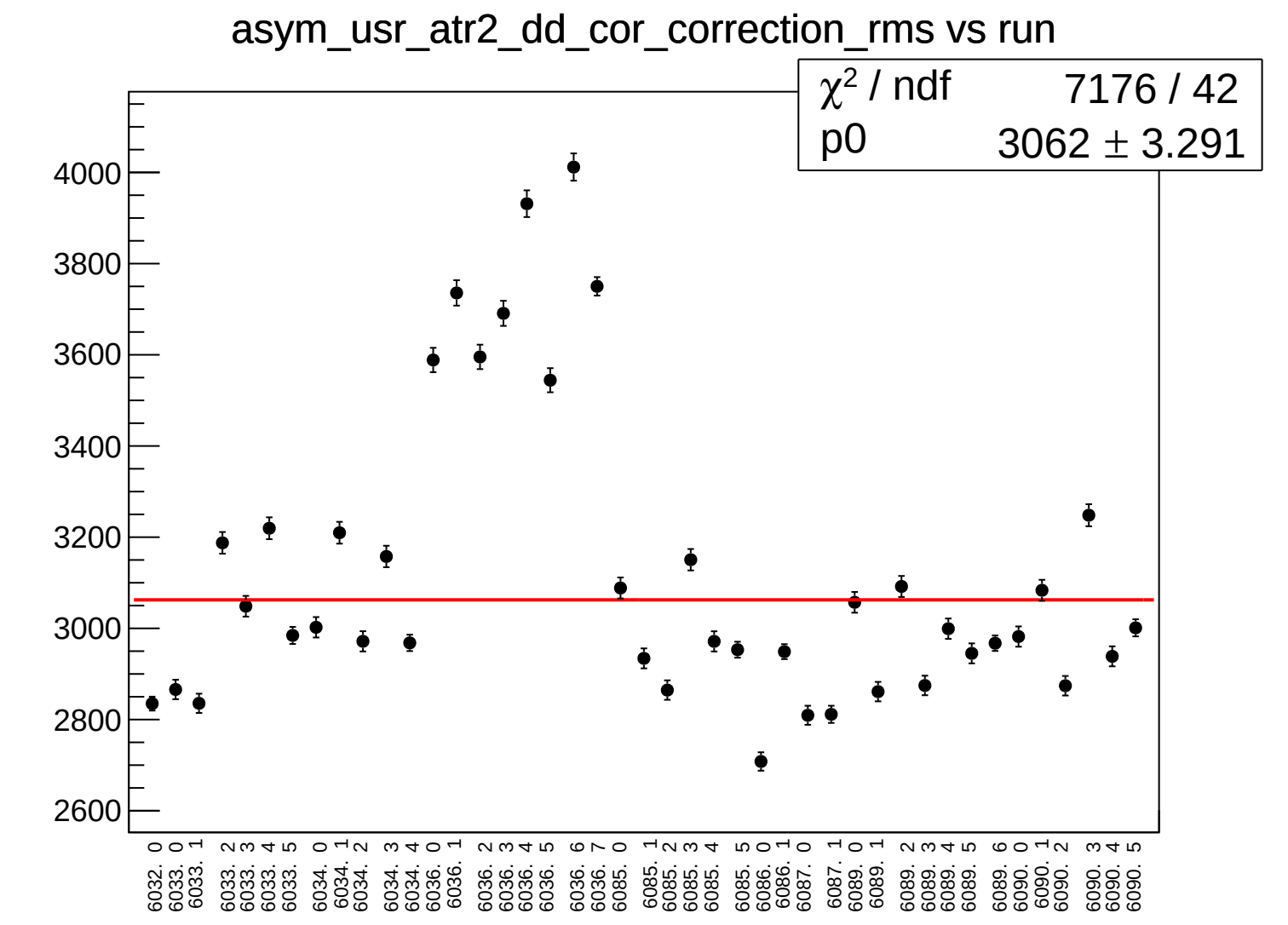

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.07 / 42
p0 −191.9 ± 4654
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03622
Std Dev 0.9766
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

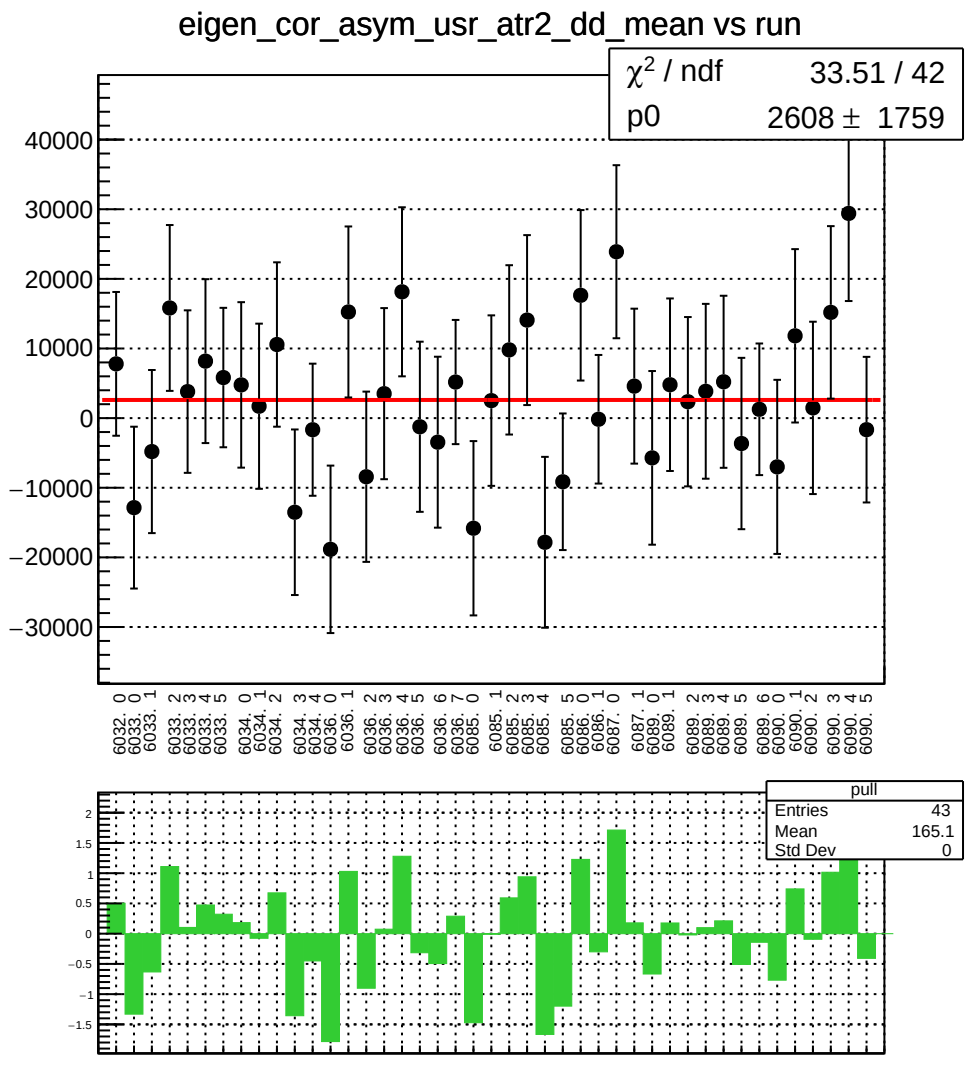

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 7175 / 42
p0 3063 ± 3.291
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

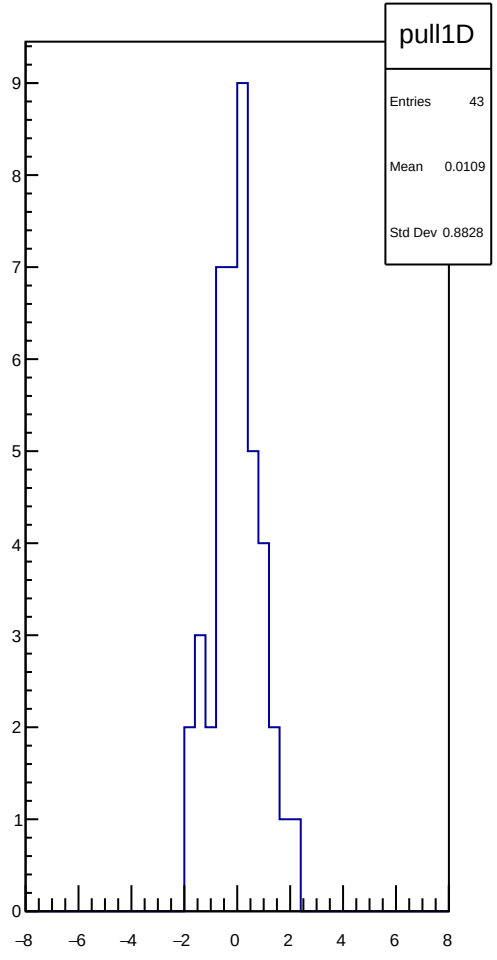

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 33.51 / 42
p0 2608 ± 1759
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 165.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0109
Std Dev 0.8828
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

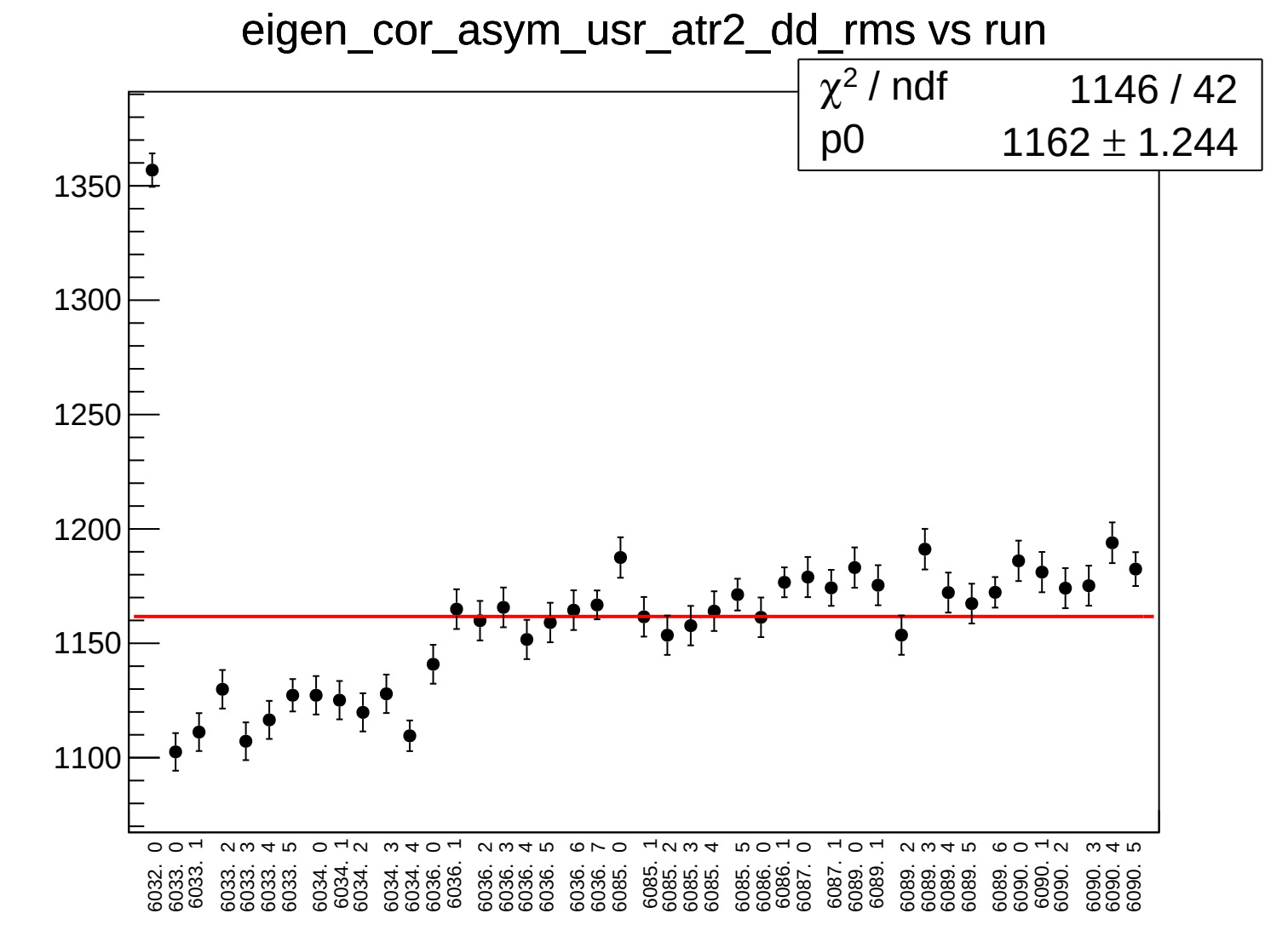

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1146 / 42
p0 1162 ± 1.244
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

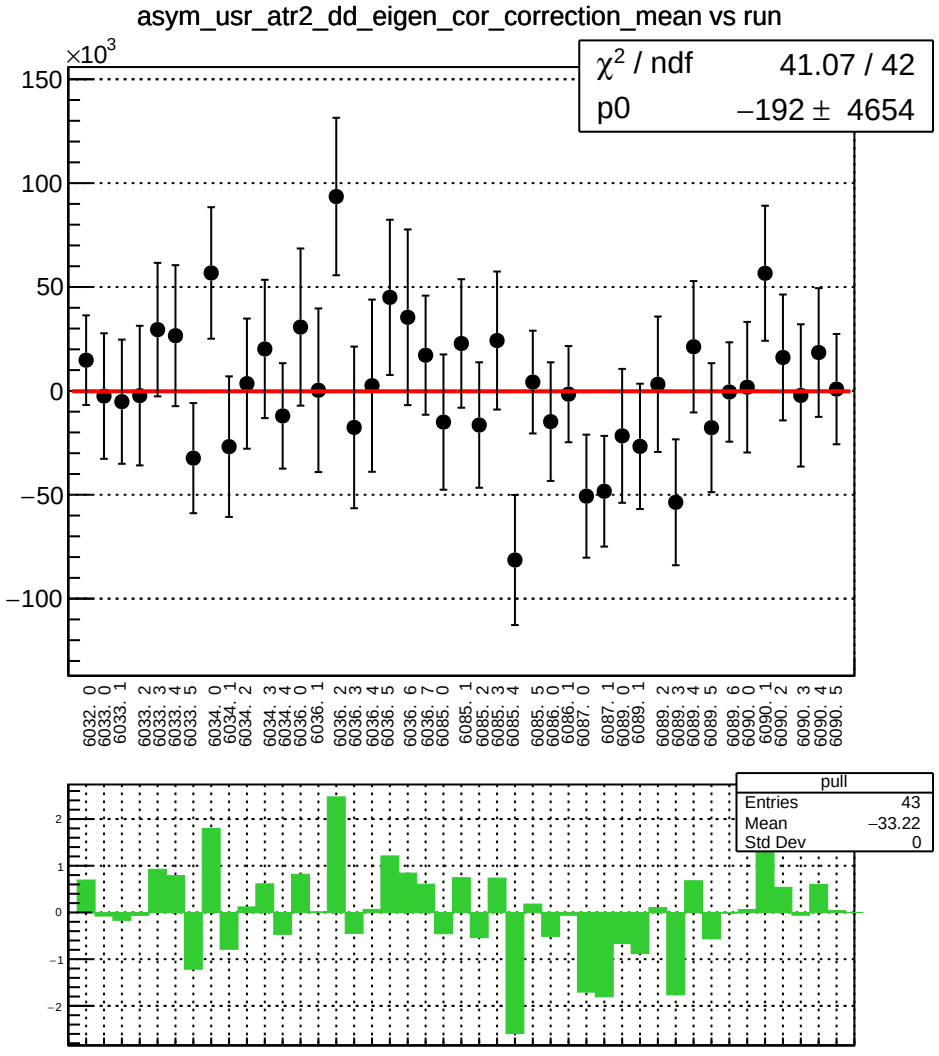

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.07 / 42
p0 −192 ± 4654
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03622
Std Dev 0.9766
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

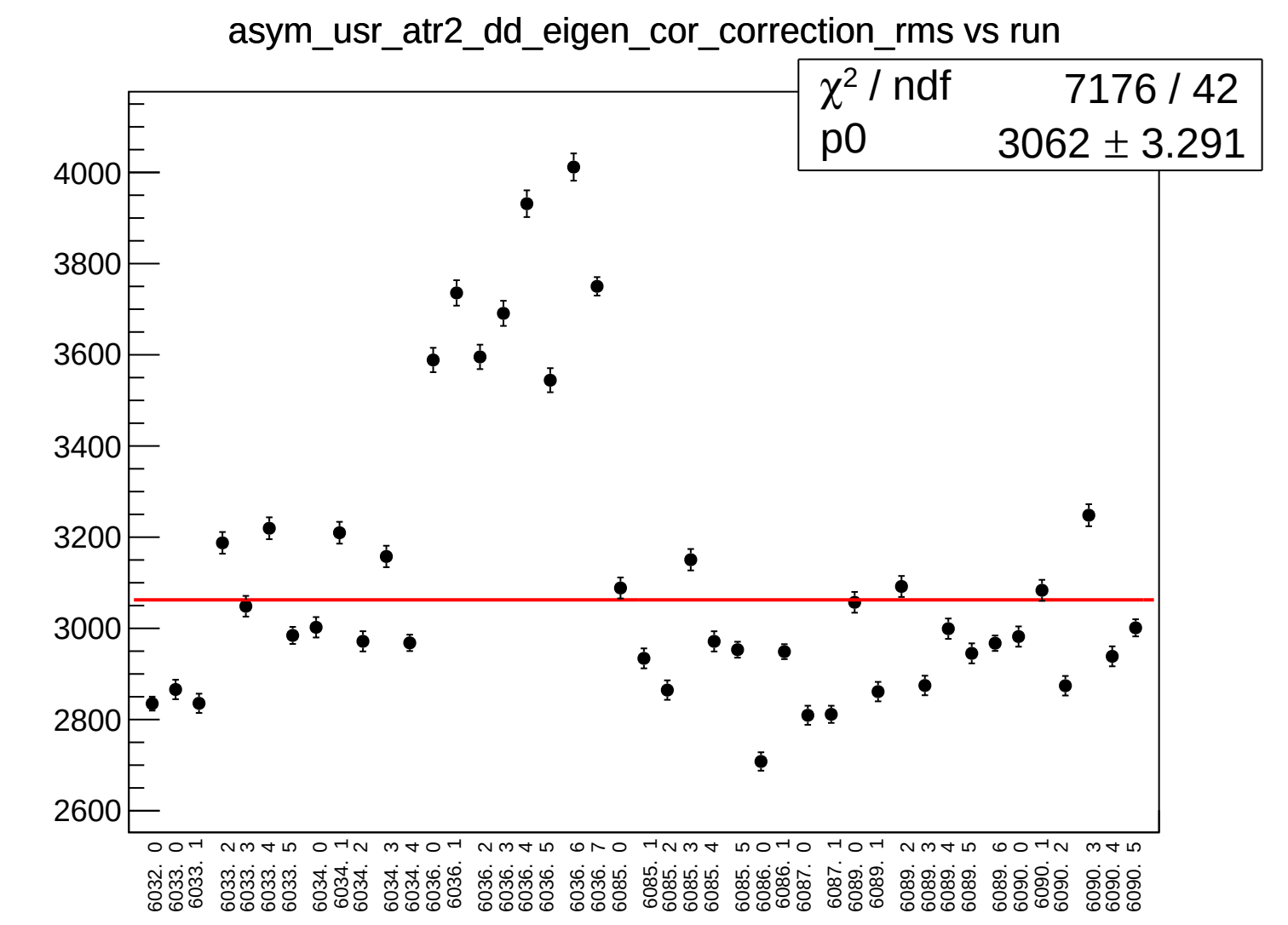

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 7176 / 42
p0 3062 ± 3.291
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

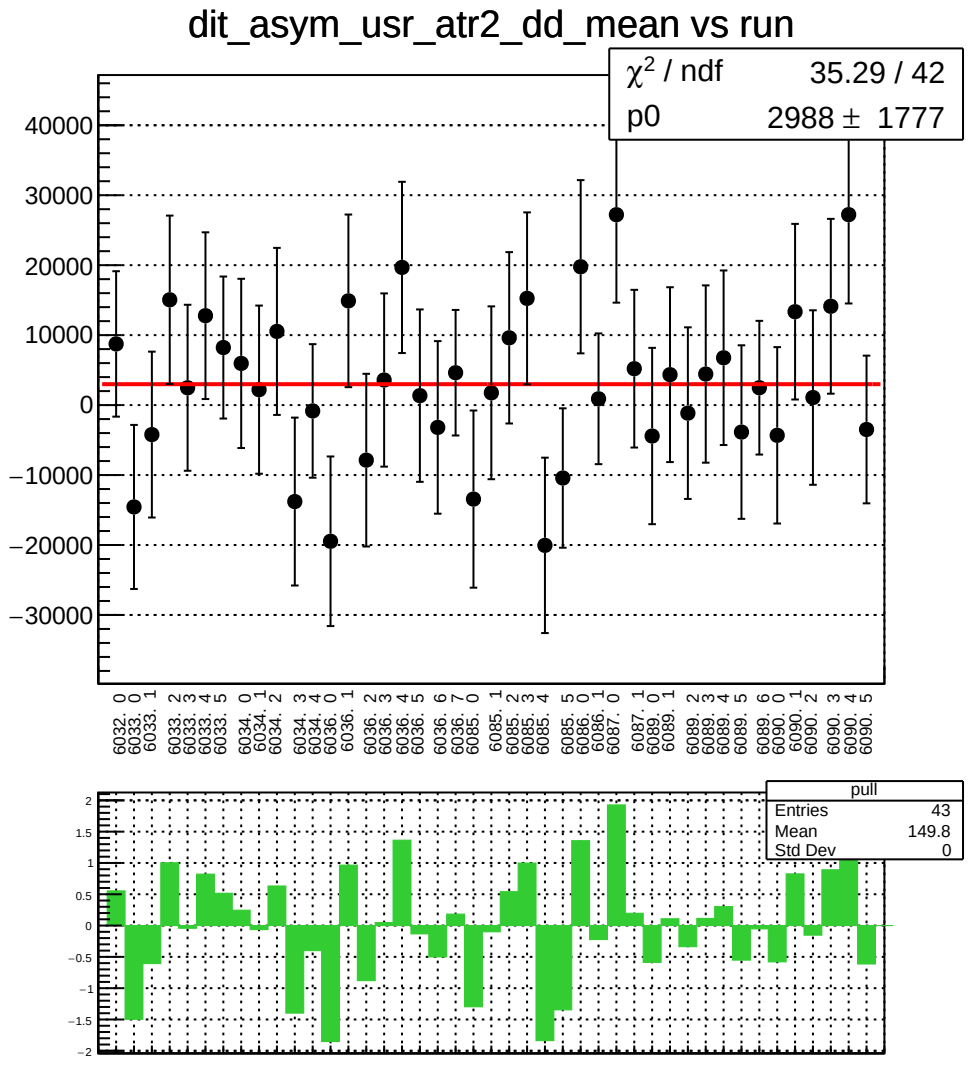

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 33.51 / 42
p0 2608 ± 1759
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 165.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

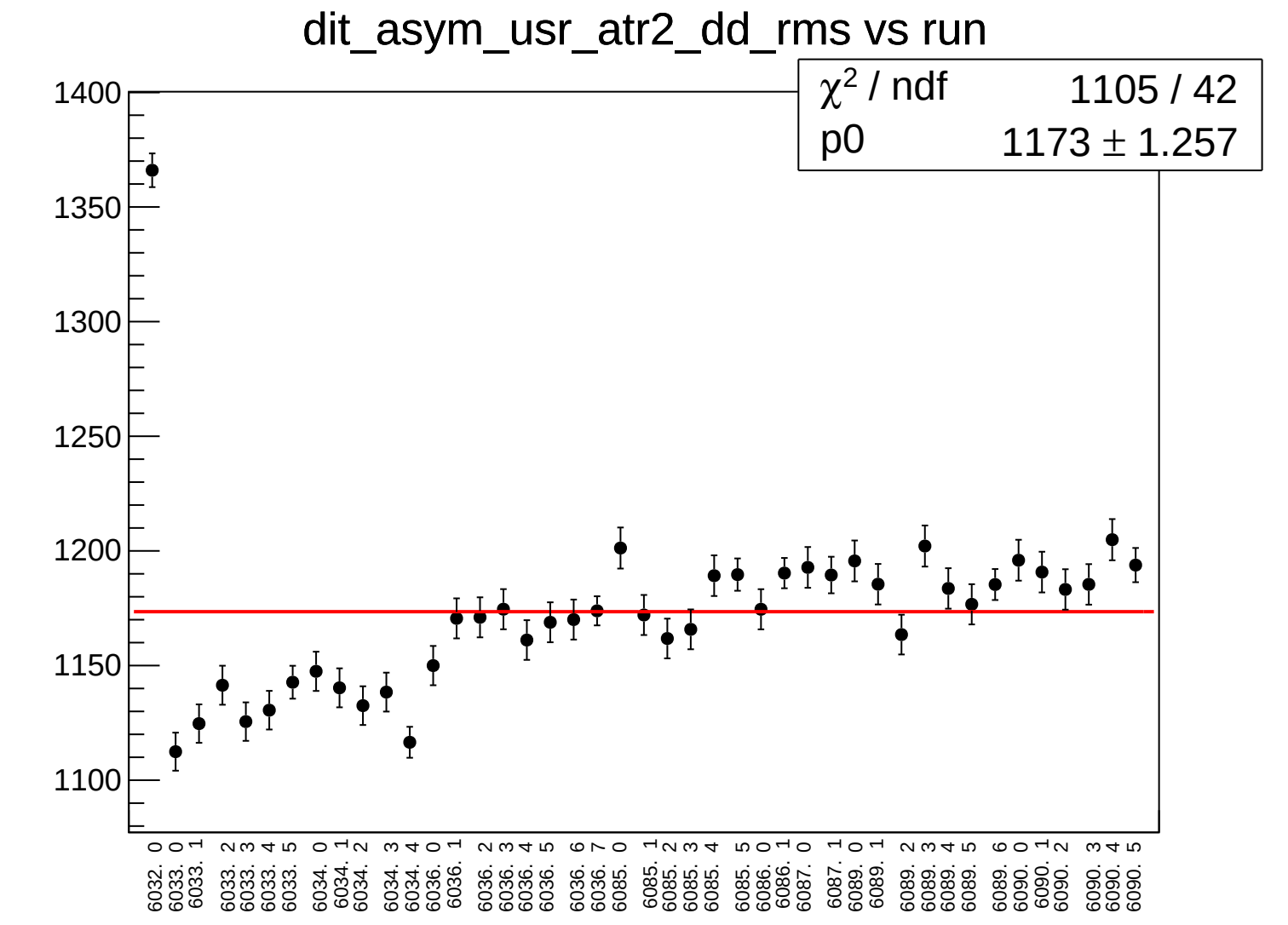

pull1D
Entries 43
Mean 0.0109
Std Dev 0.8828
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

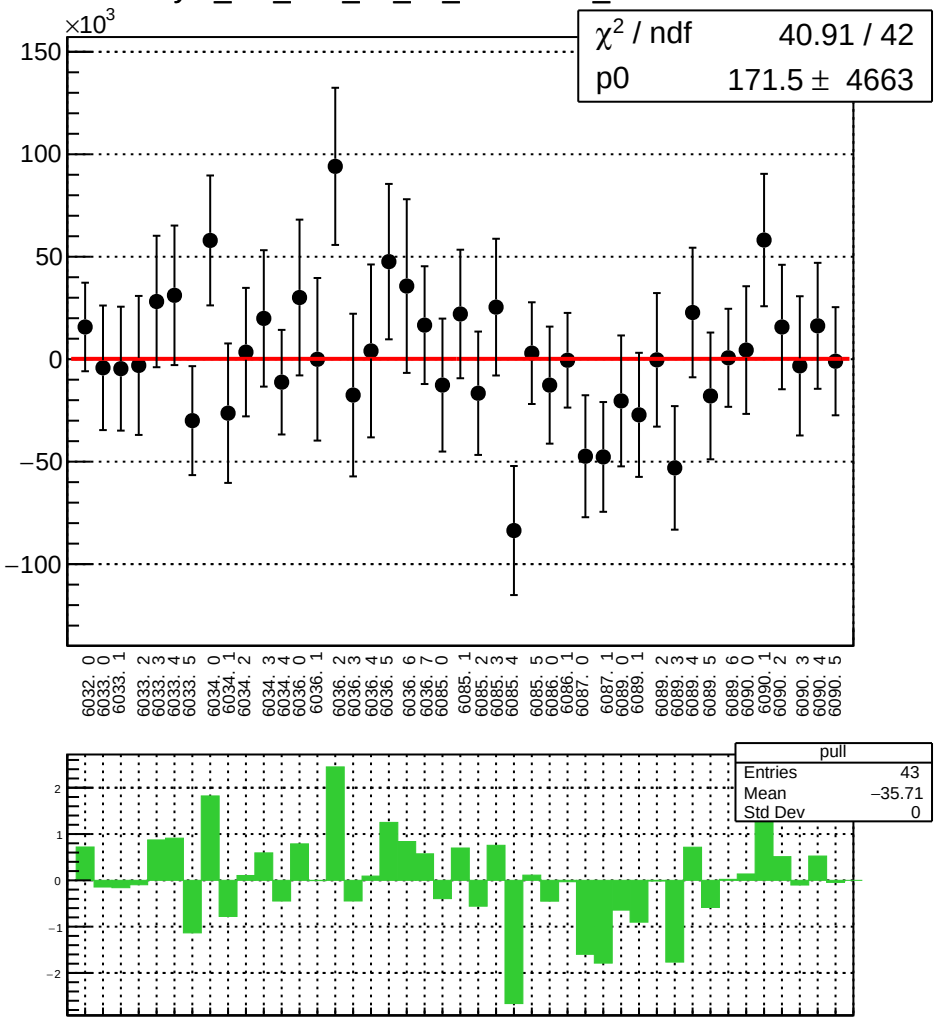

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1146 / 42
p0 1162 ± 1.244
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

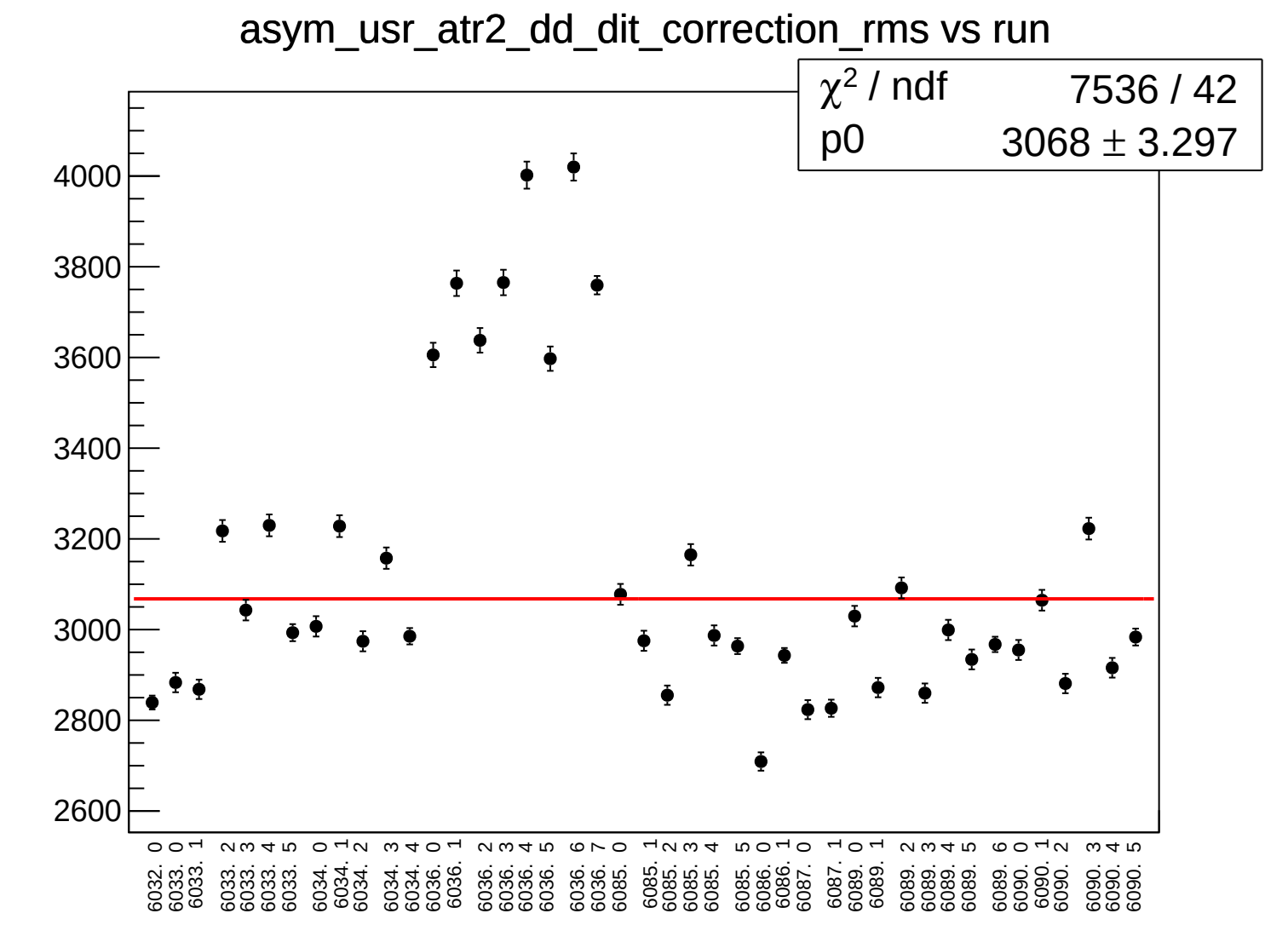

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.07 / 42
p0 −192 ± 4654
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03622
Std Dev 0.9766
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

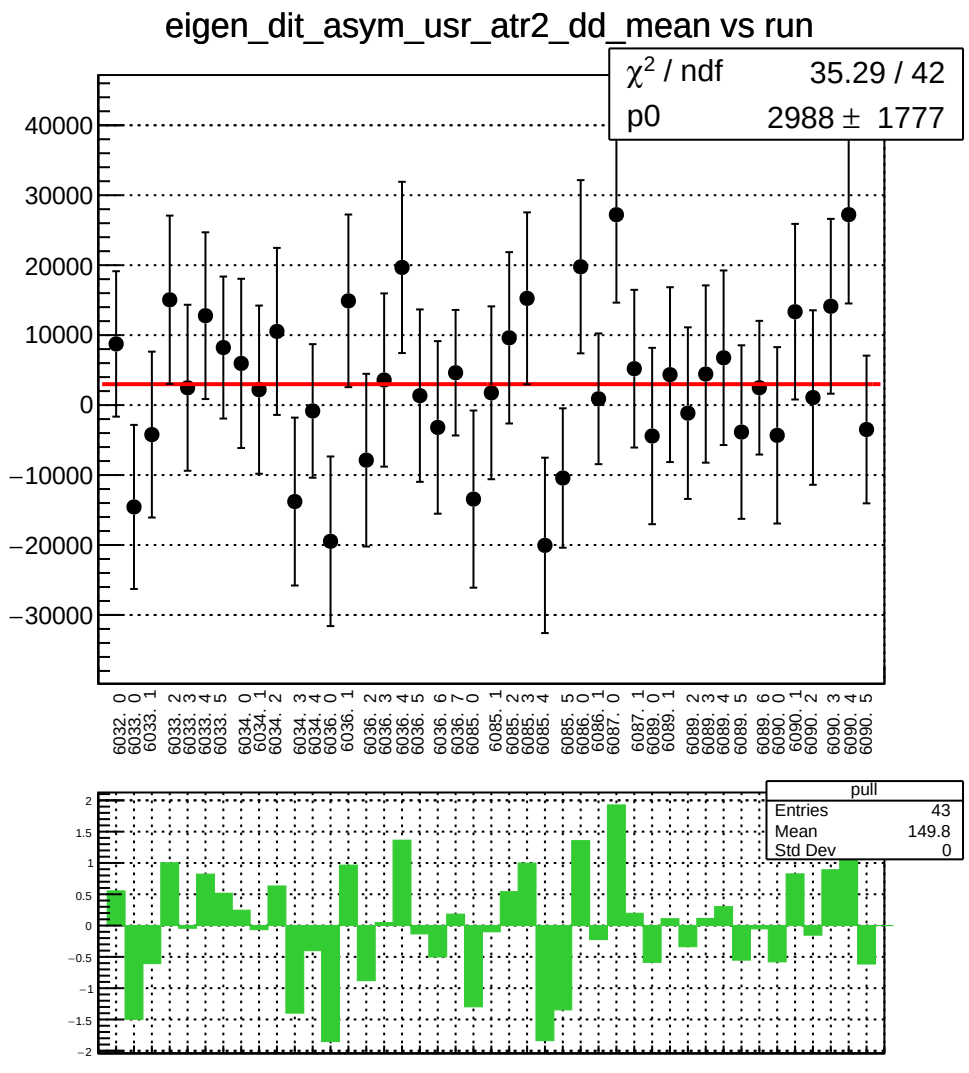

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7176 / 42
p0 3062 ± 3.291
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

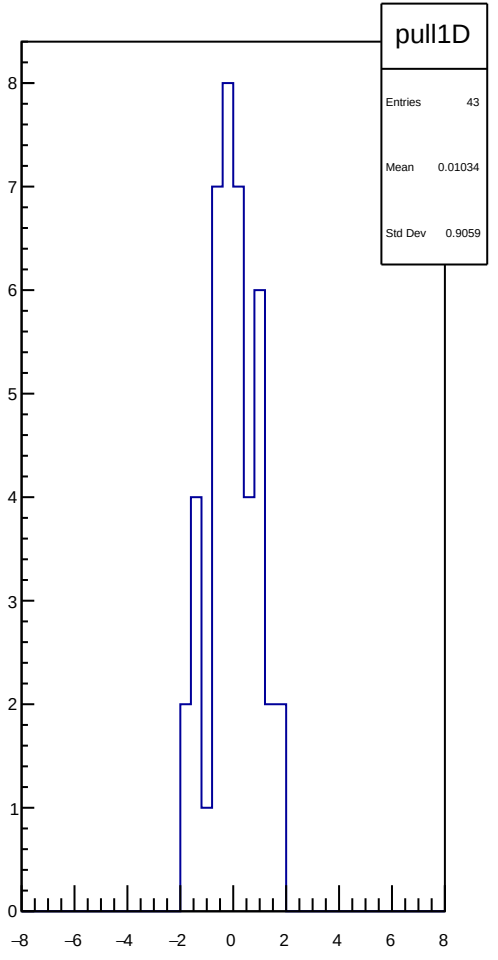

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 35.29 / 42
p0 2988 ± 1777
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 149.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01034
Std Dev 0.9059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

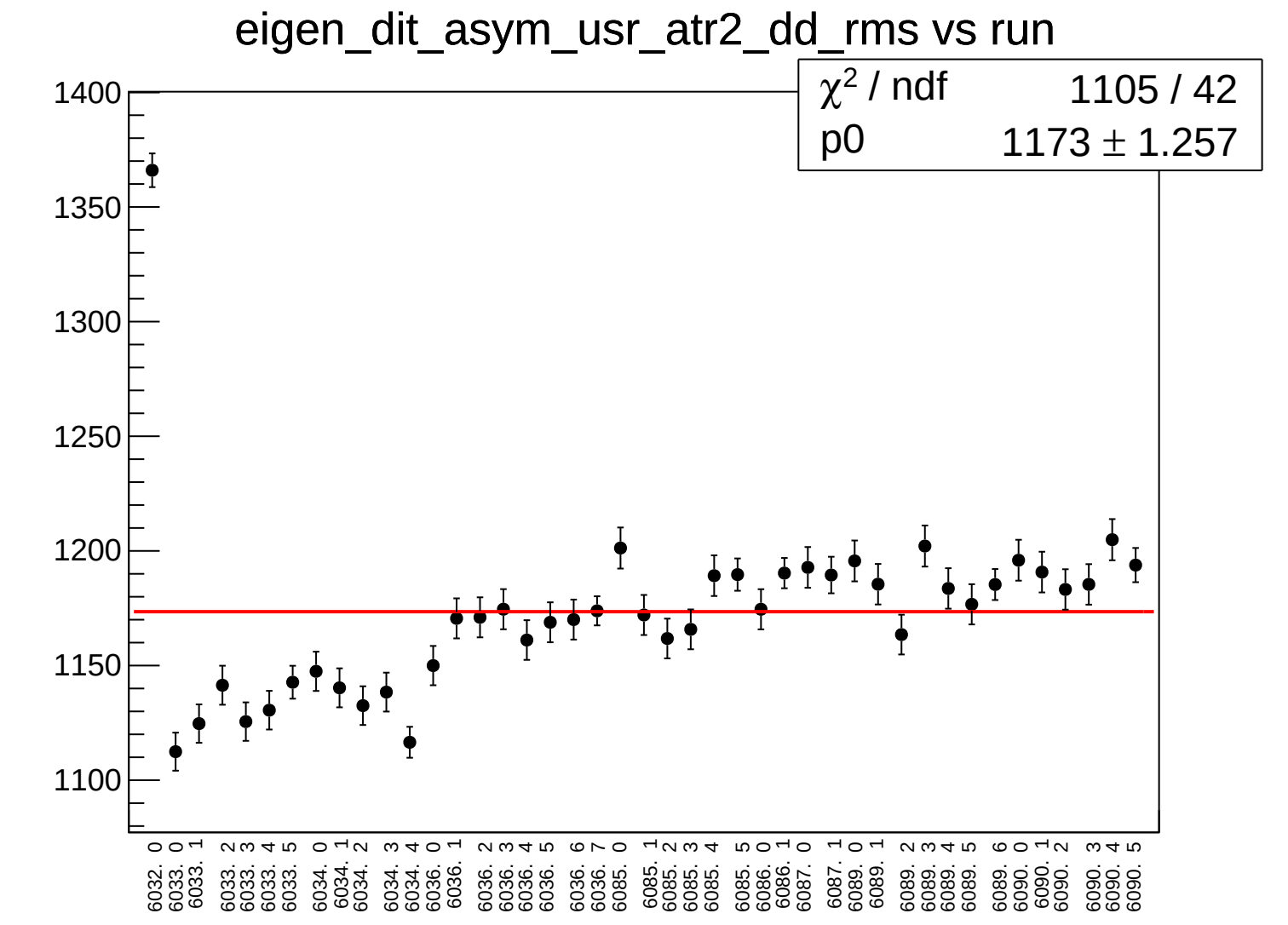

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1105 / 42
p0 1173 ± 1.257
1400
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

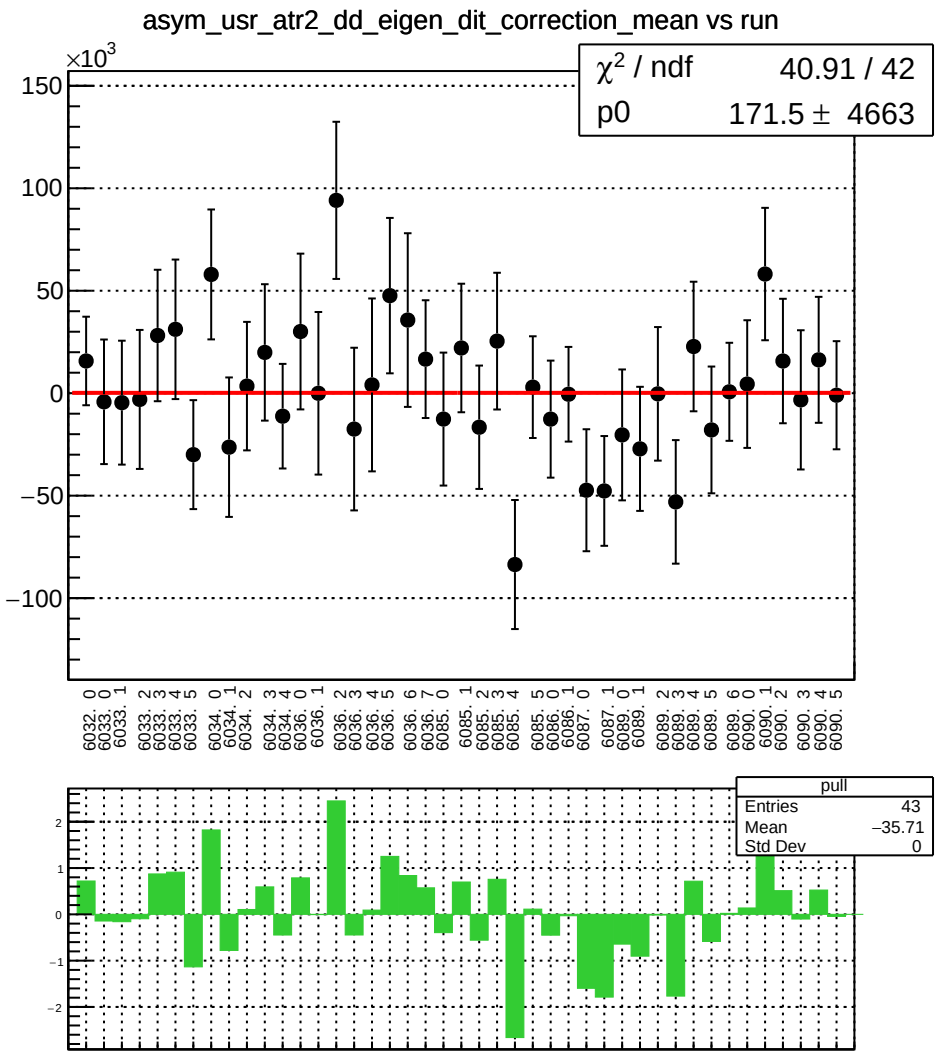

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 40.91 / 42
p0 171.5 ± 4663
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −35.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03598
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

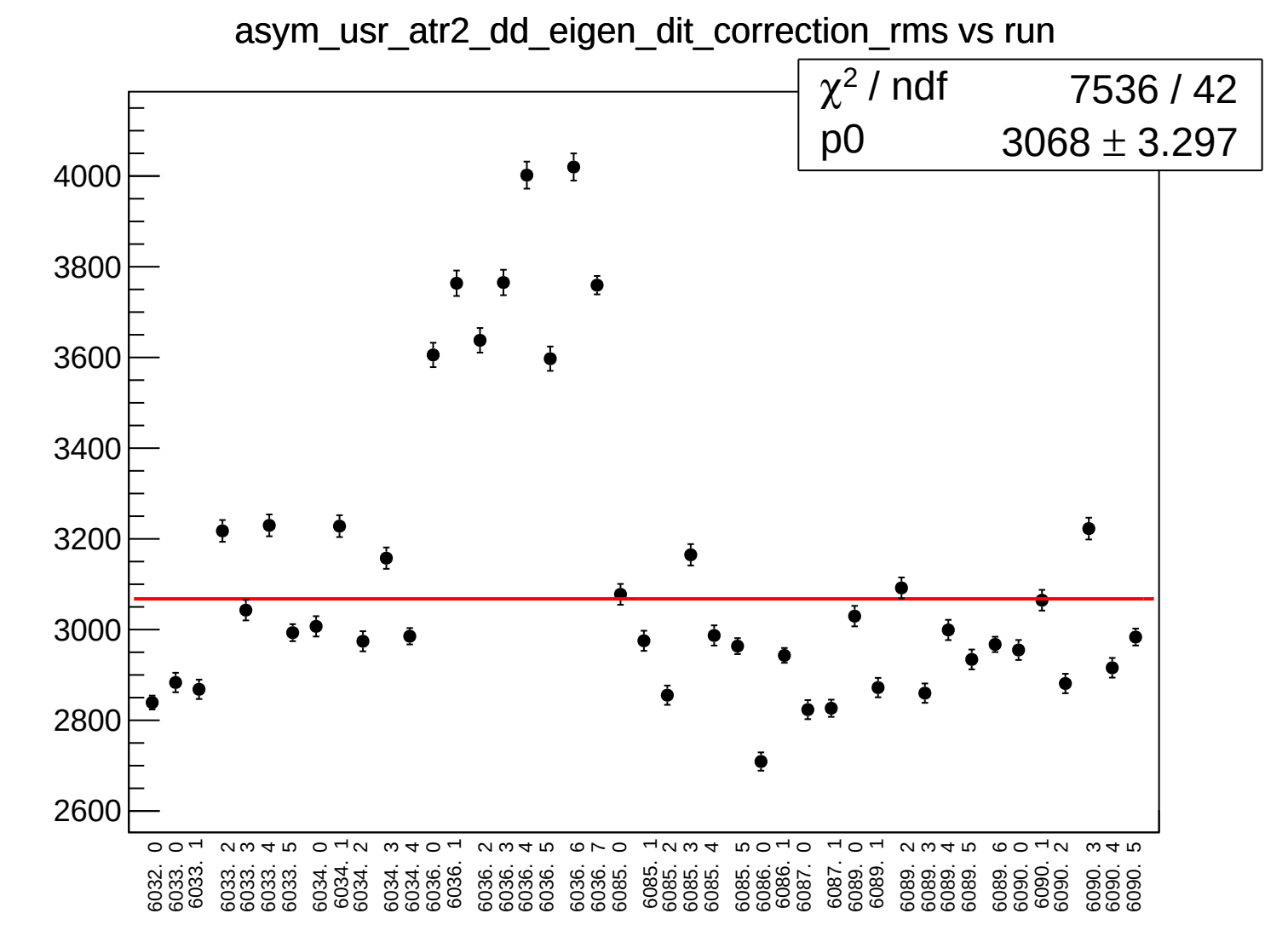

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 7536 / 42
p0 3068 ± 3.297
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

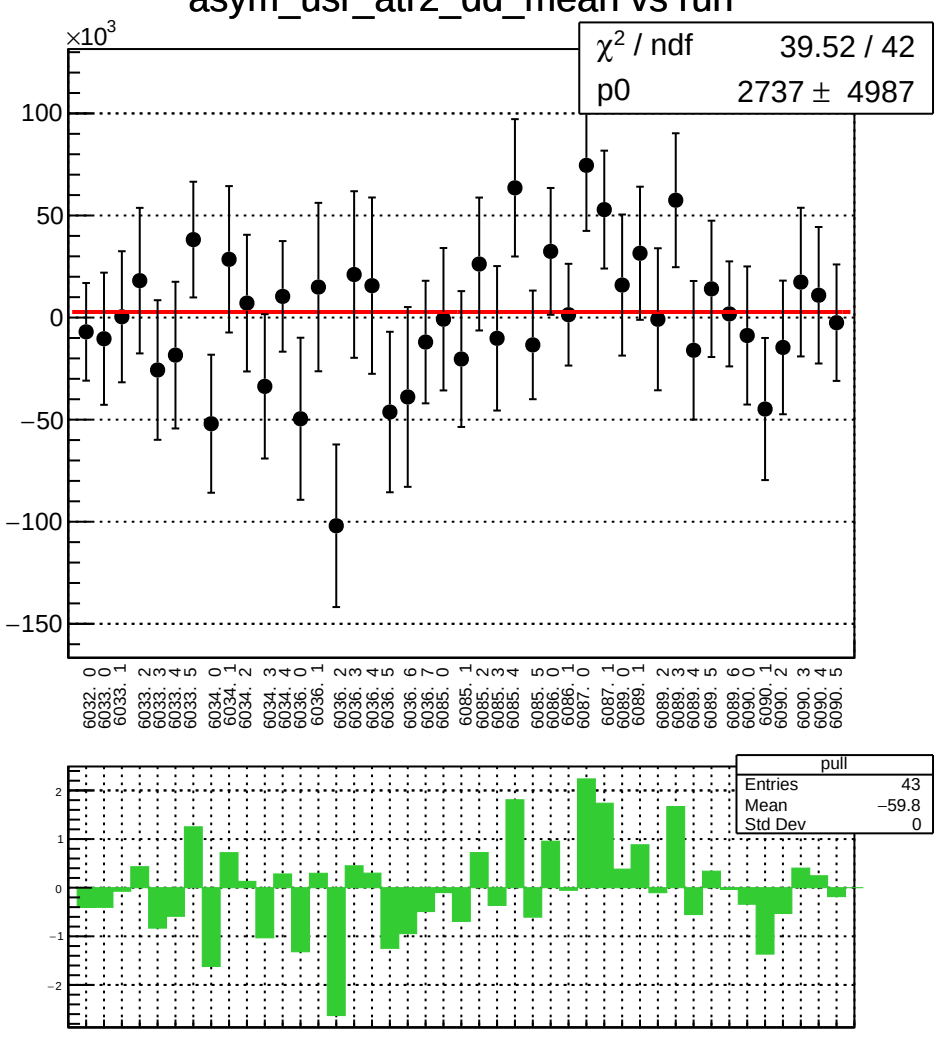

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 35.29 / 42
p0 2988 ± 1777
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 149.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

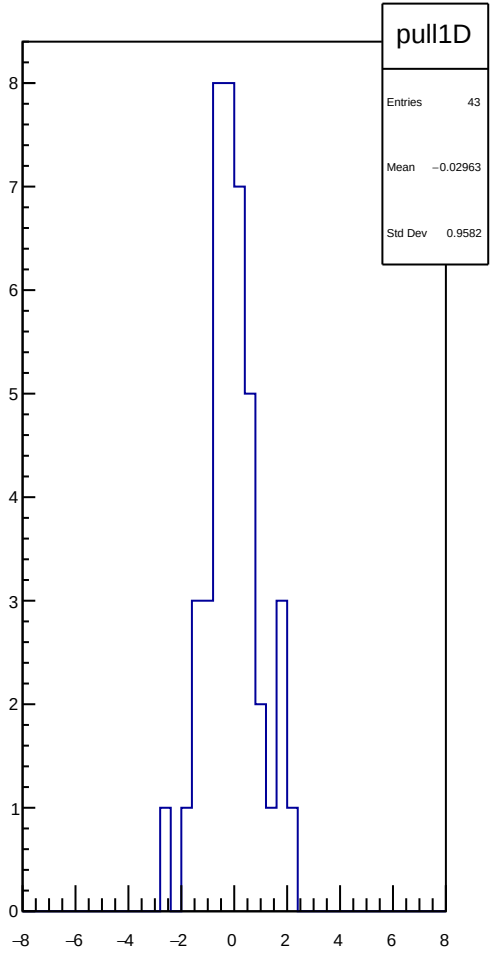

pull1D
Entries 43
Mean 0.01034
Std Dev 0.9059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

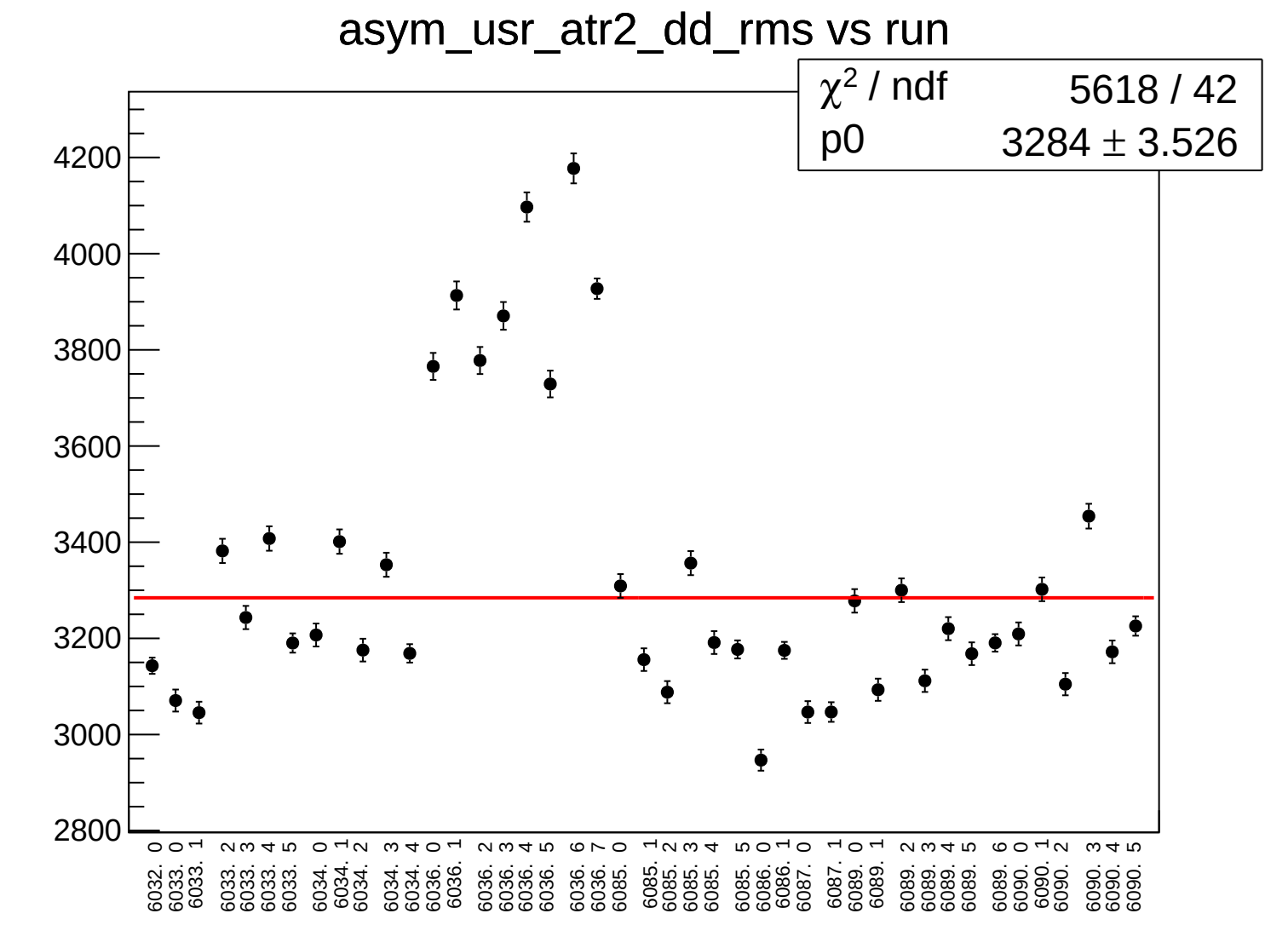

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1105 / 42
p0 1173 ± 1.257
1400
1350
1300
1250
1200
1150
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

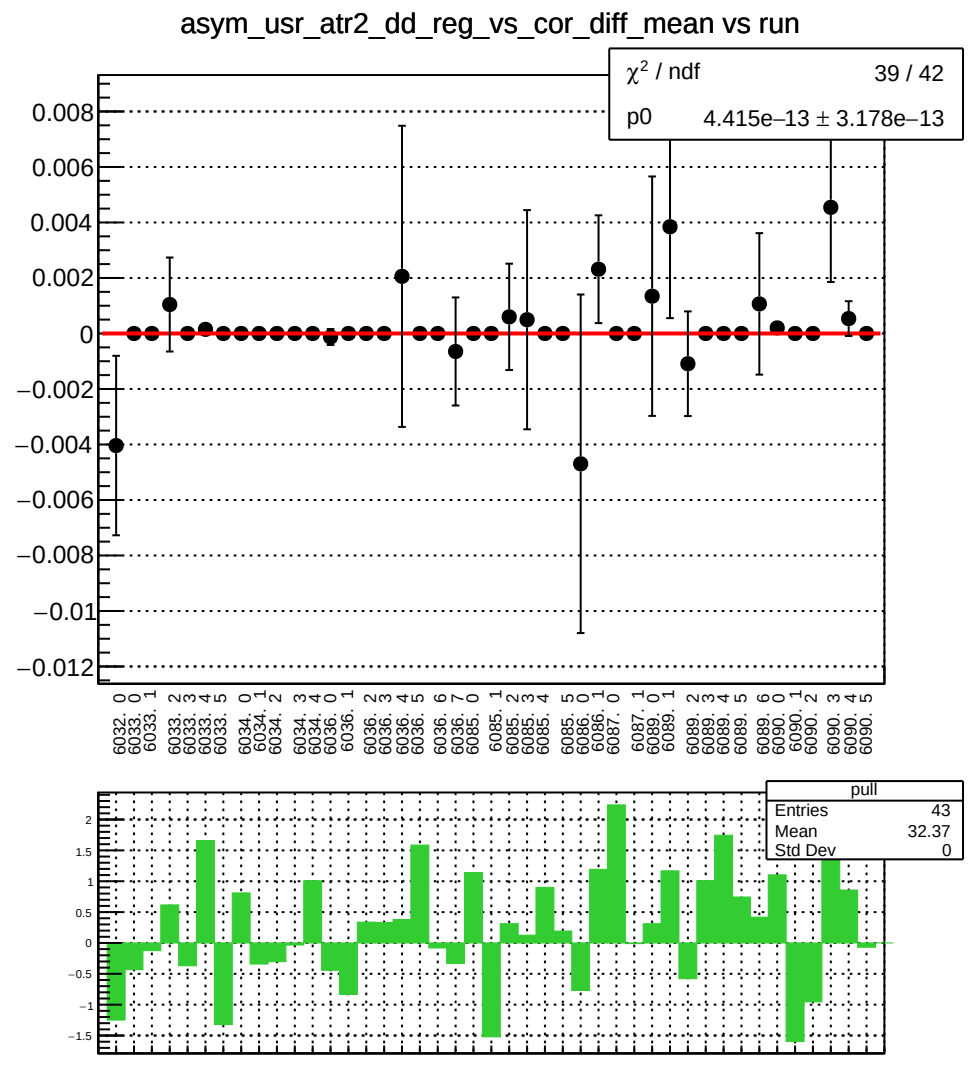

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 40.91 / 42
p0 171.5 ± 4663
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −35.71
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03598
Std Dev 0.9748
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

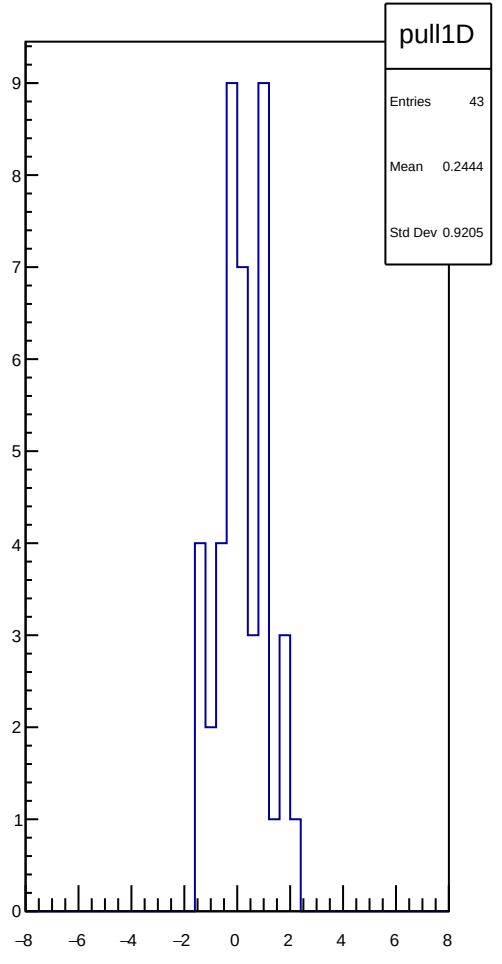

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7536 / 42
p0 3068 ± 3.297
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

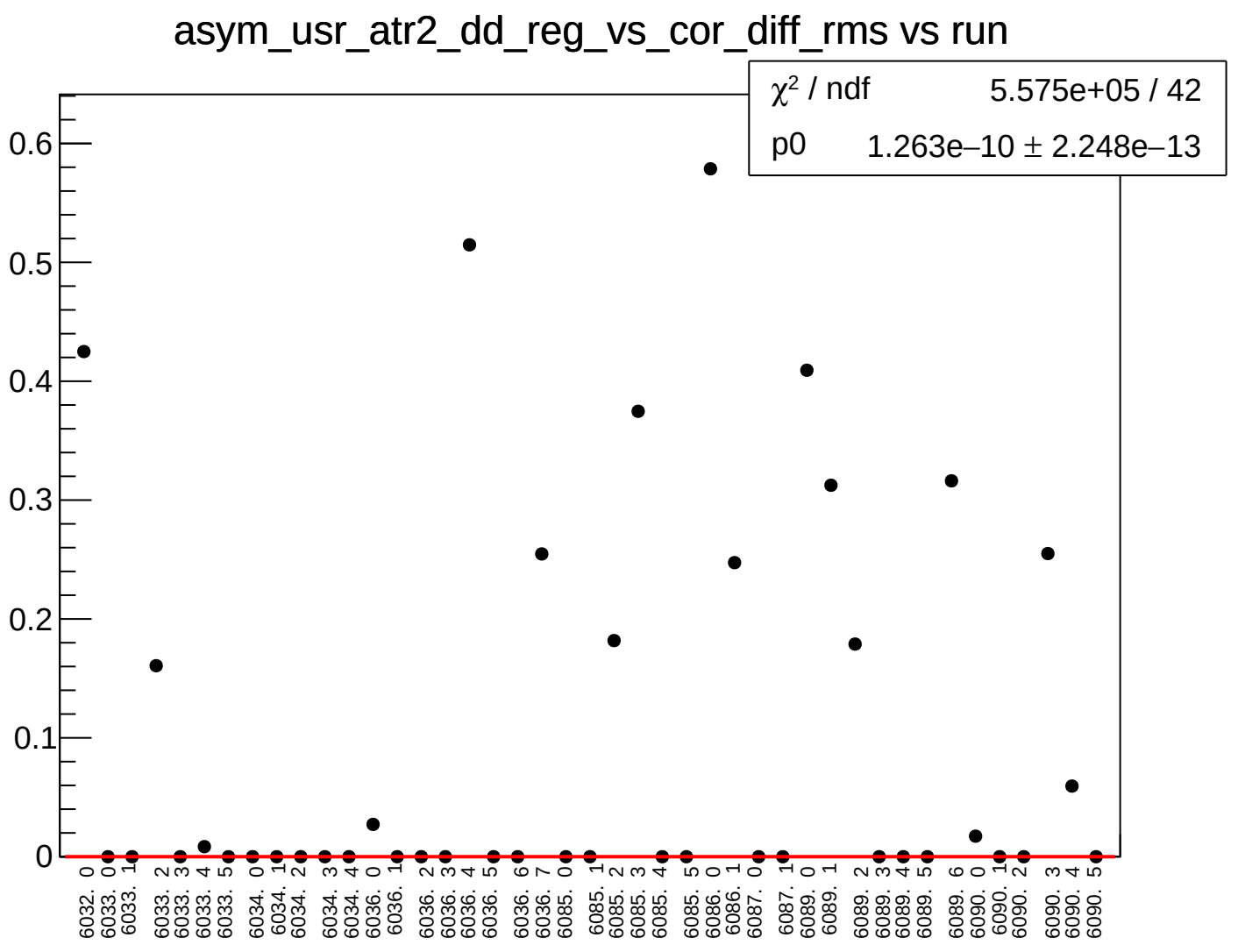

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 39.52 / 42
p0 2737 ± 4987
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −59.8
Std Dev 0
2
1
0
−1
−2

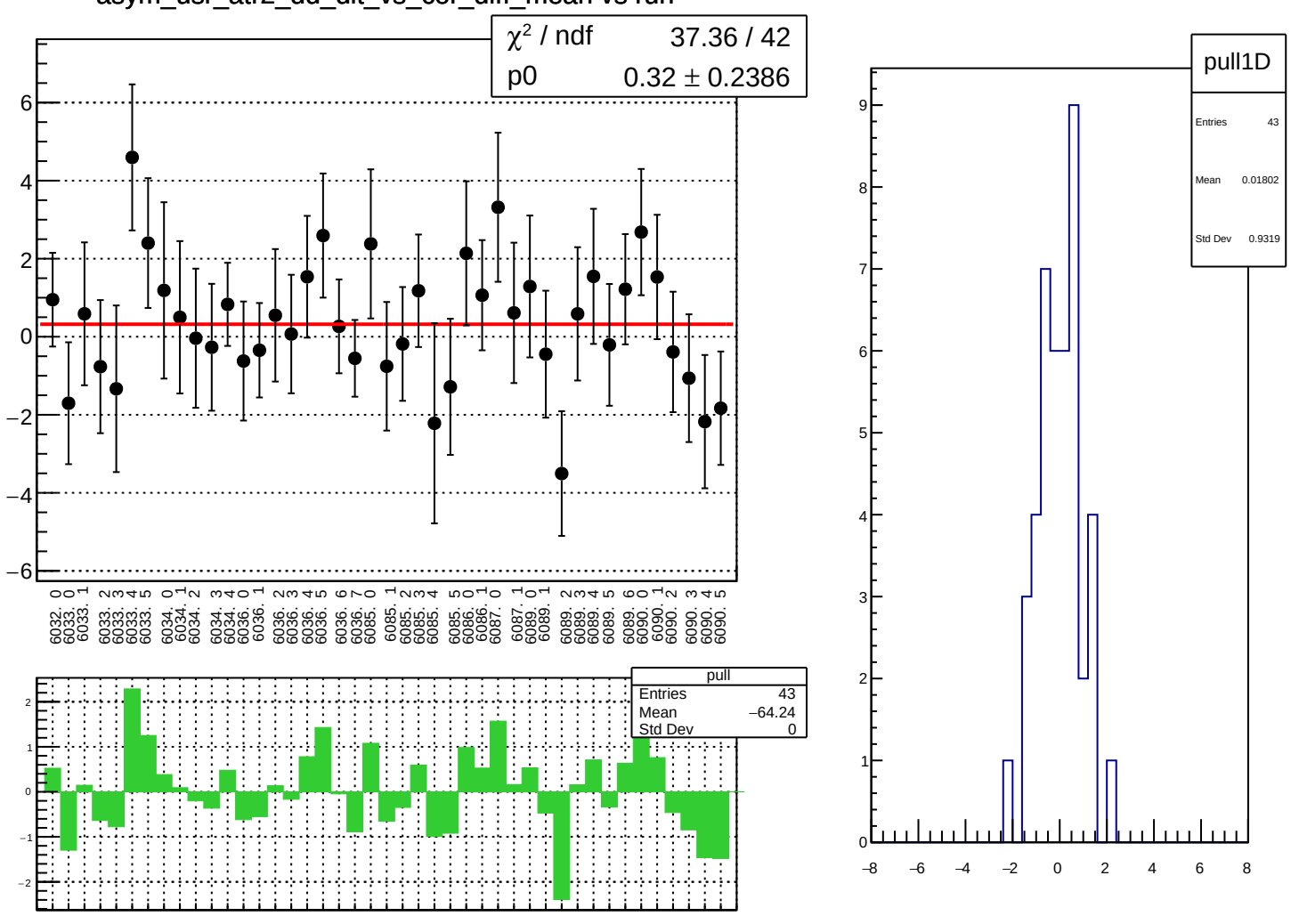

pull1D
Entries 43
Mean −0.02963
Std Dev 0.9582
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

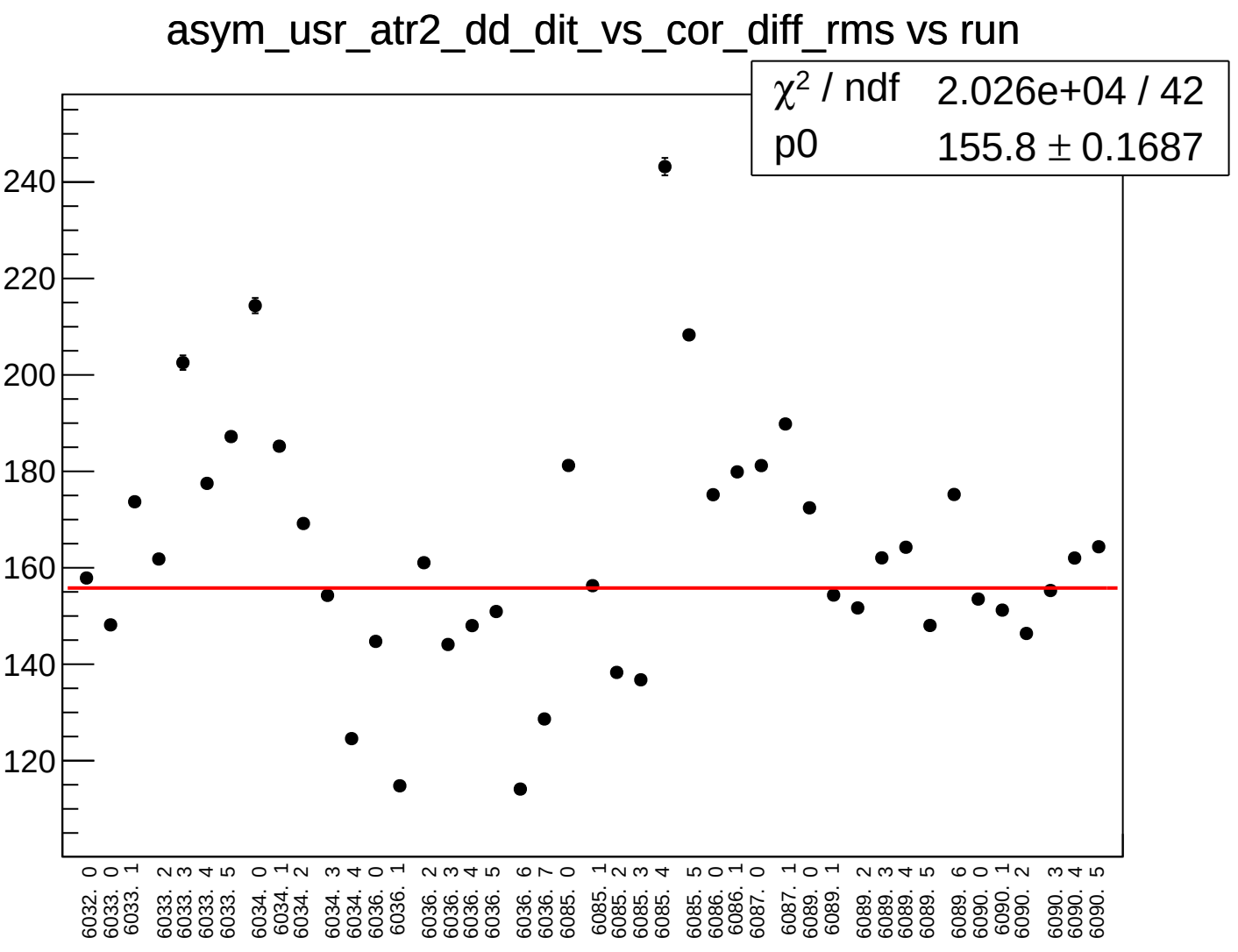

asym_usr_atr2_dd_rms vs run
χ² / ndf 5618 / 42
p0 3284 ± 3.526
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

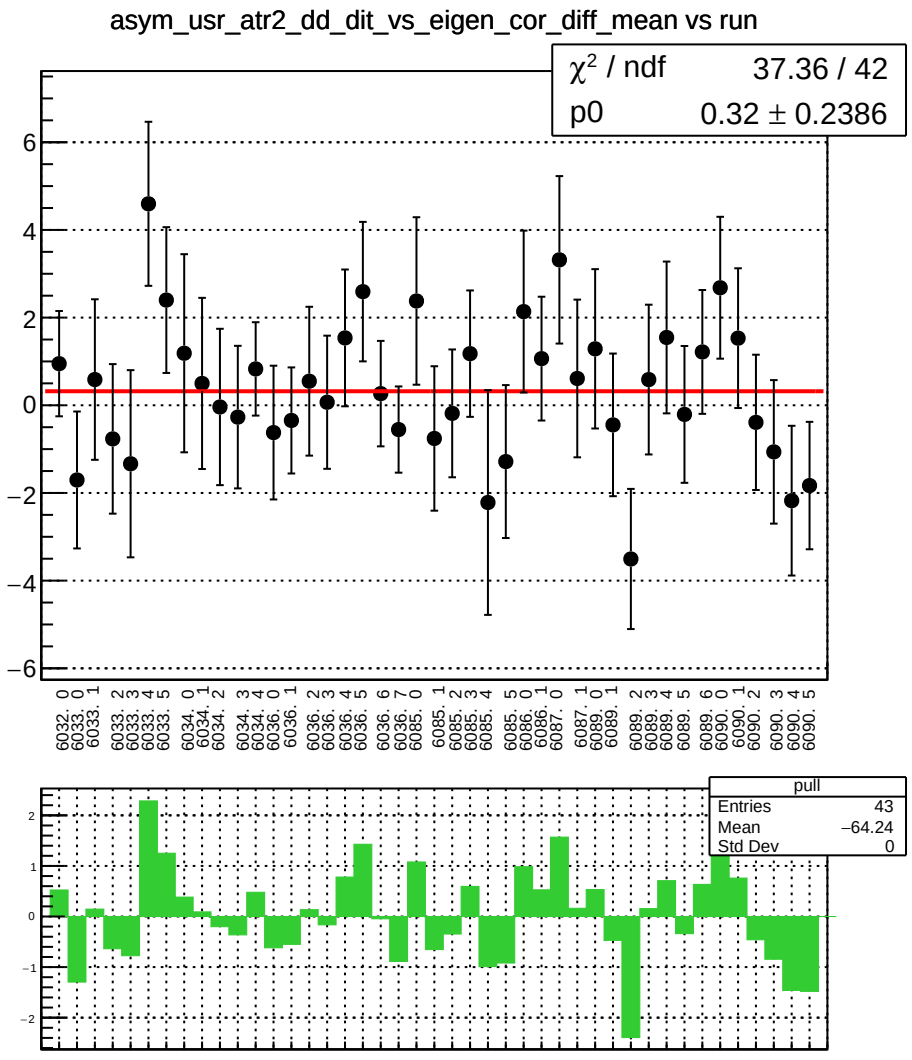

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39 / 42
p0 4.415e−13 ± 3.178e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

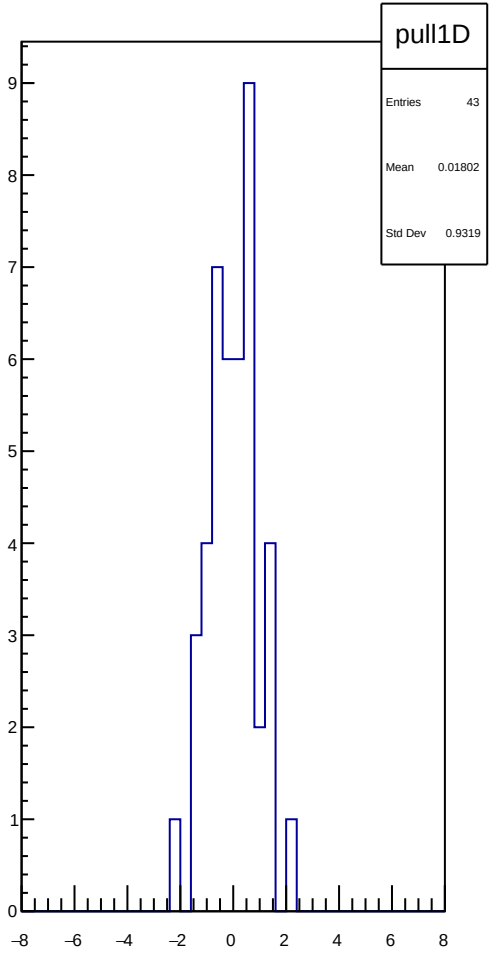

pull1D
Entries 43
Mean 0.2444
Std Dev 0.9205
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

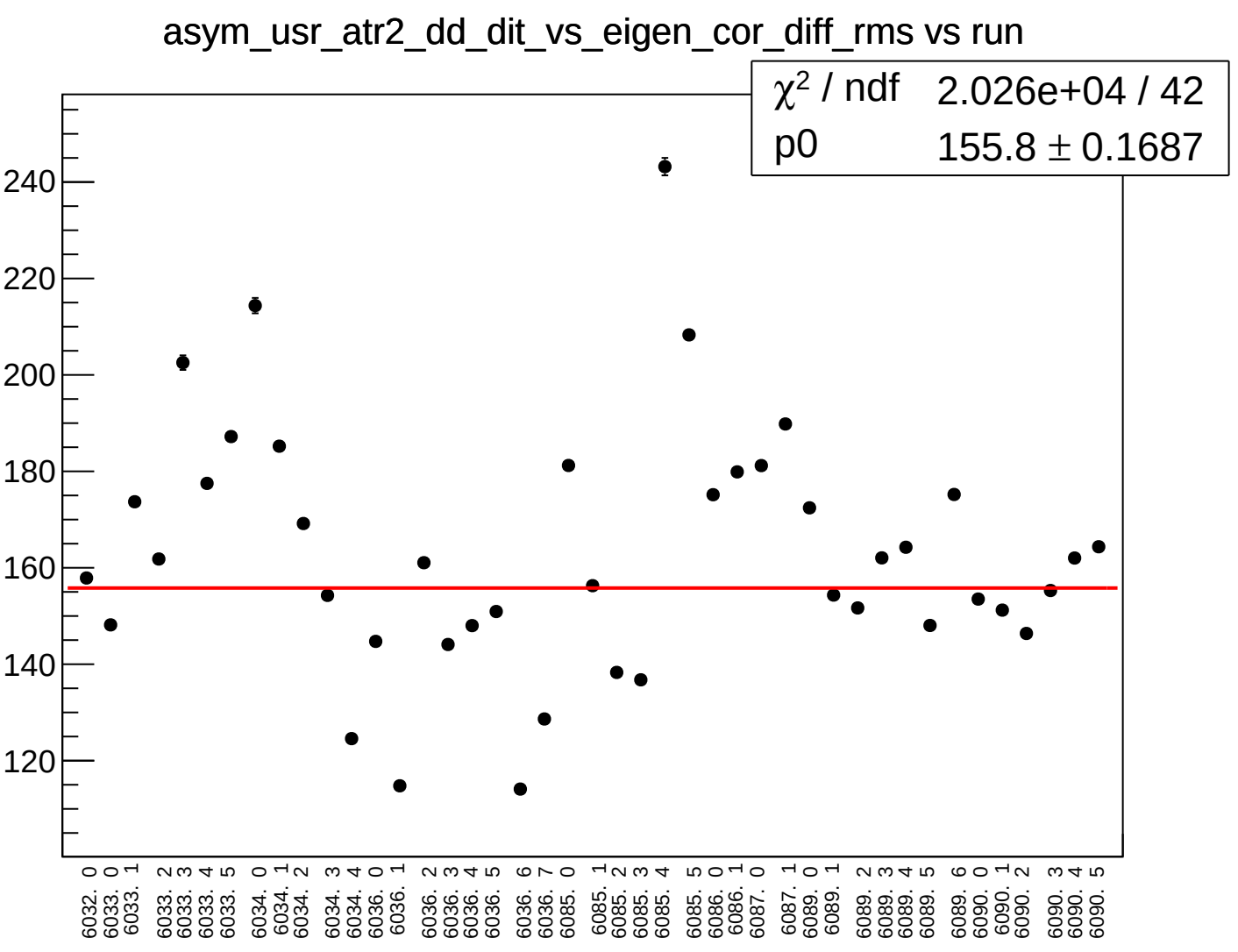

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.575e+05 / 42
p0 1.263e−10 ± 2.248e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

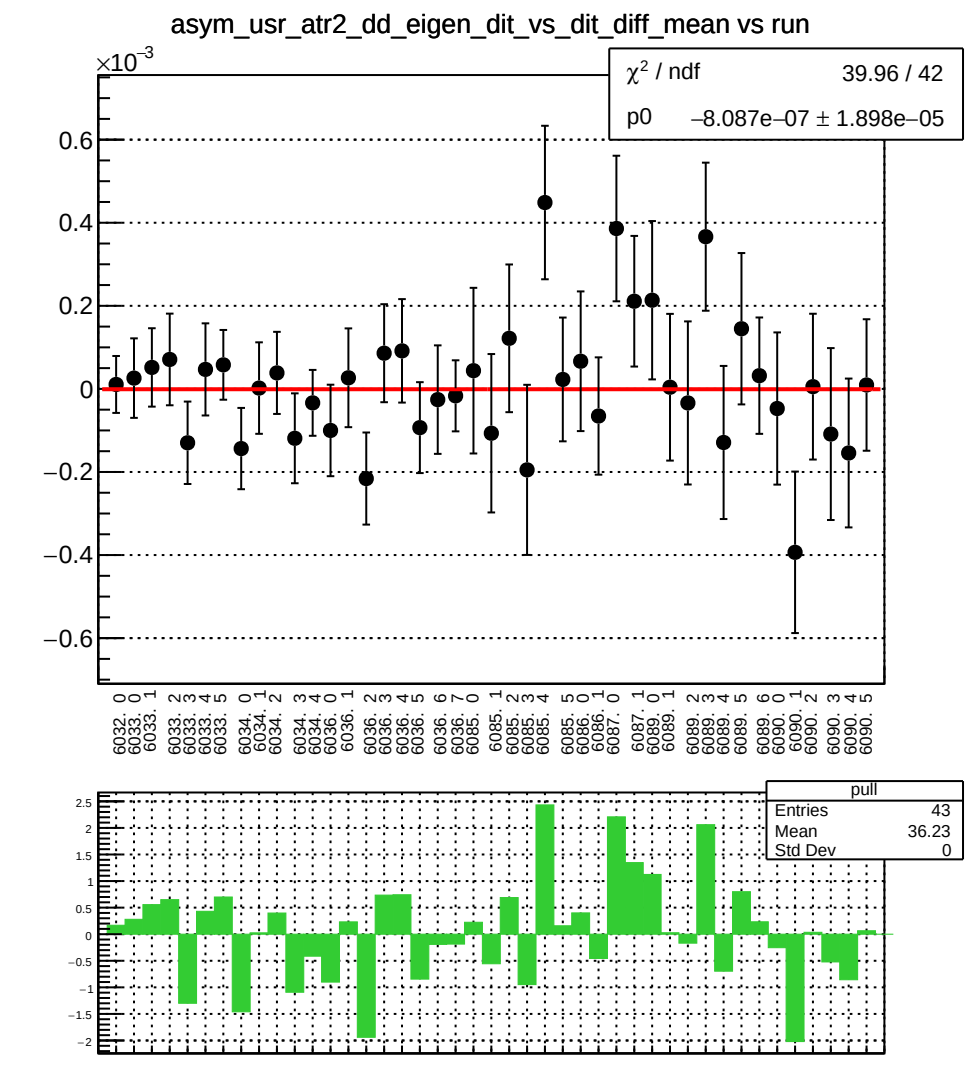

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.36 / 42
p0 0.32 ± 0.2386
6
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.24
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01802
Std Dev 0.9319
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

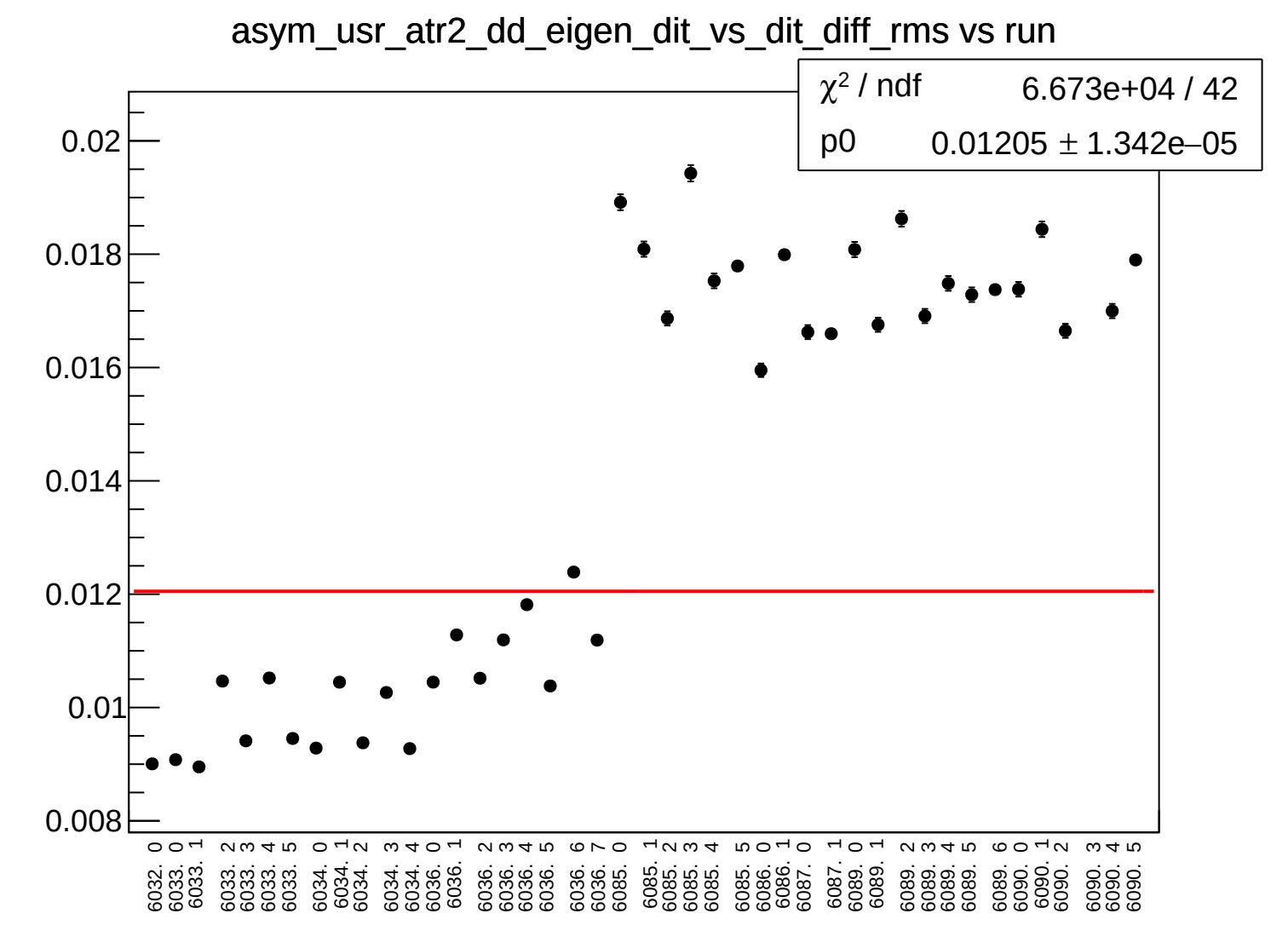

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.026e+04 / 42
p0 155.8 ± 0.1687
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

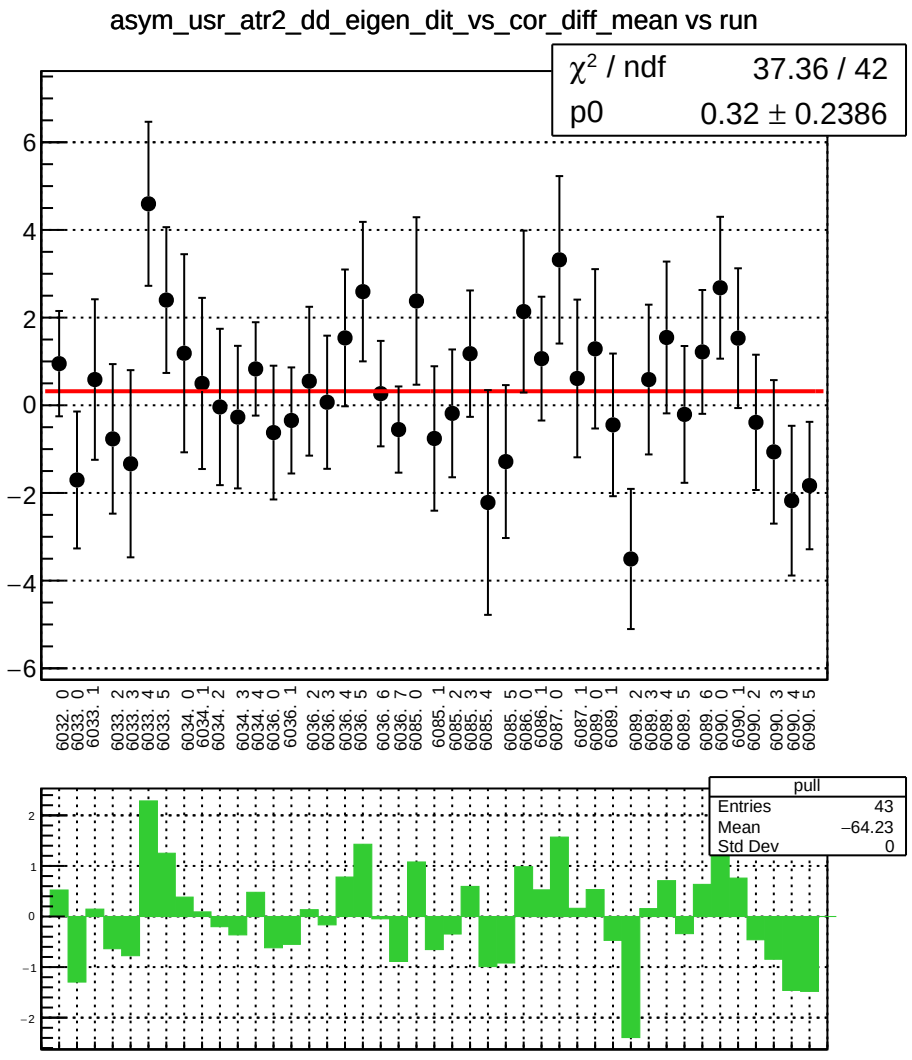

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.36 / 42
p0 0.32 ± 0.2386
6
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.24
Std Dev 0
2
1
0
−1
−2

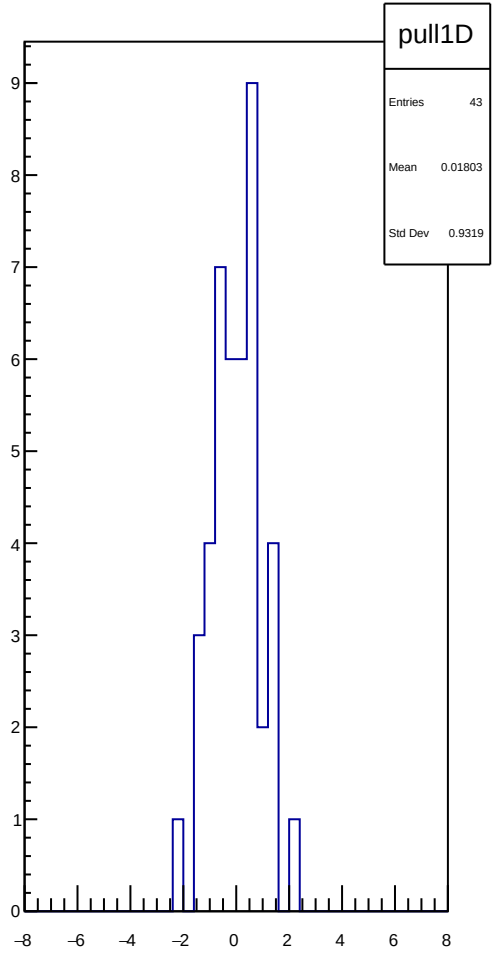

pull1D
Entries 43
Mean 0.01802
Std Dev 0.9319
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

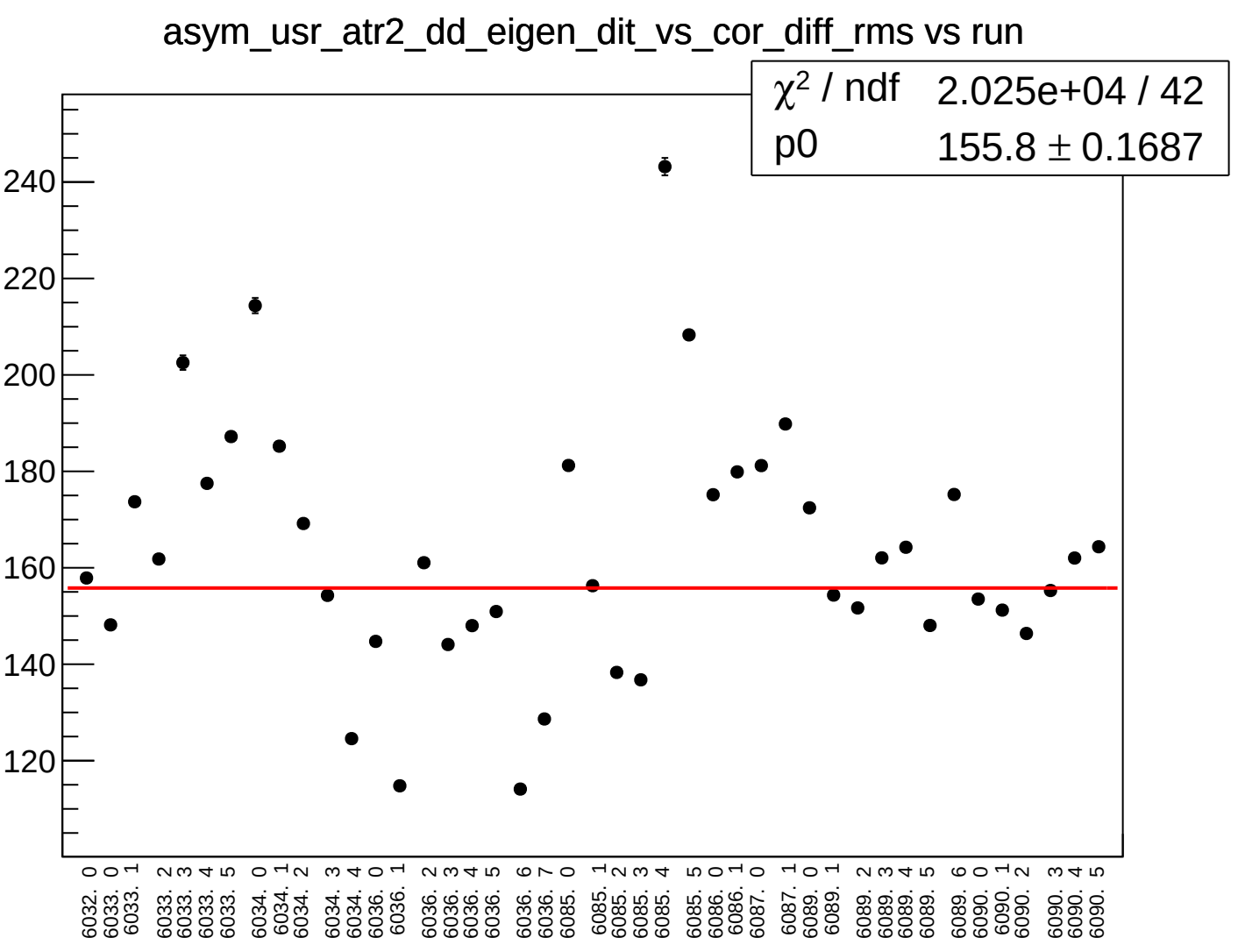

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.026e+04 / 42
p0 155.8 ± 0.1687
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

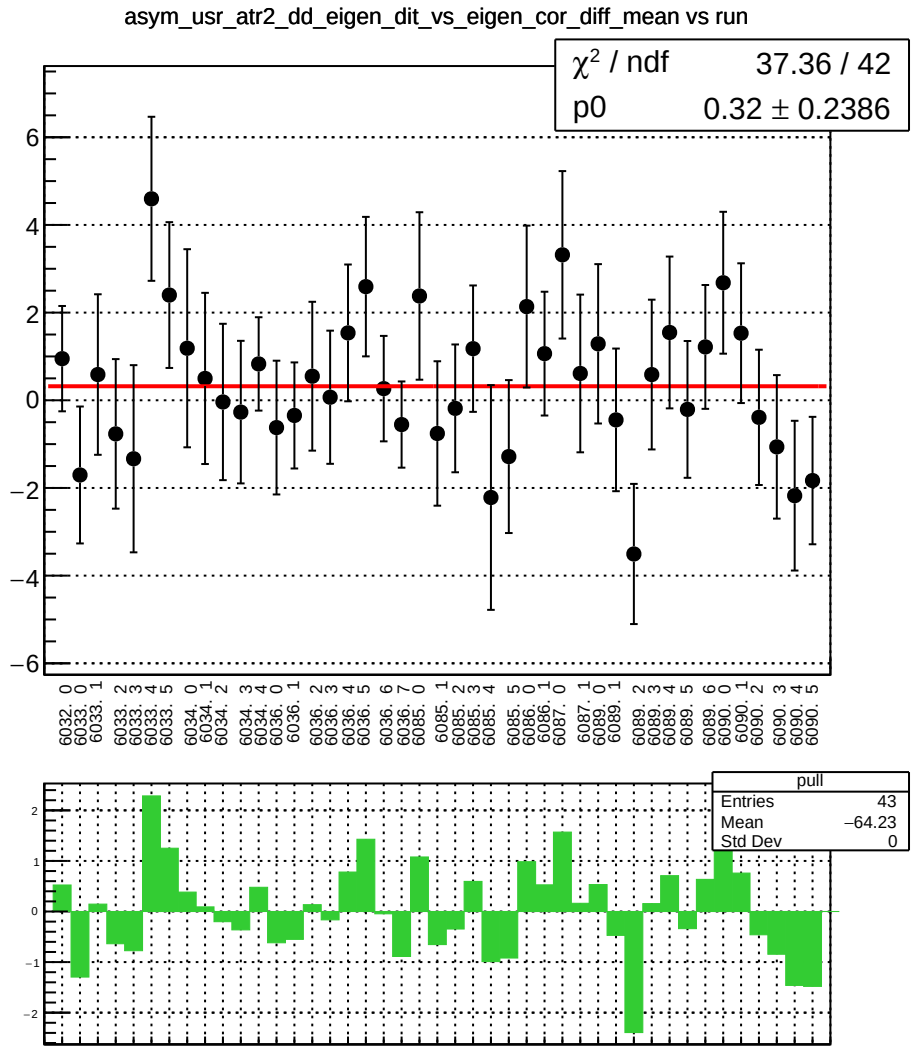

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.96 / 42
p0 −8.087e−07 ± 1.898e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.04467
Std Dev 0.963
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

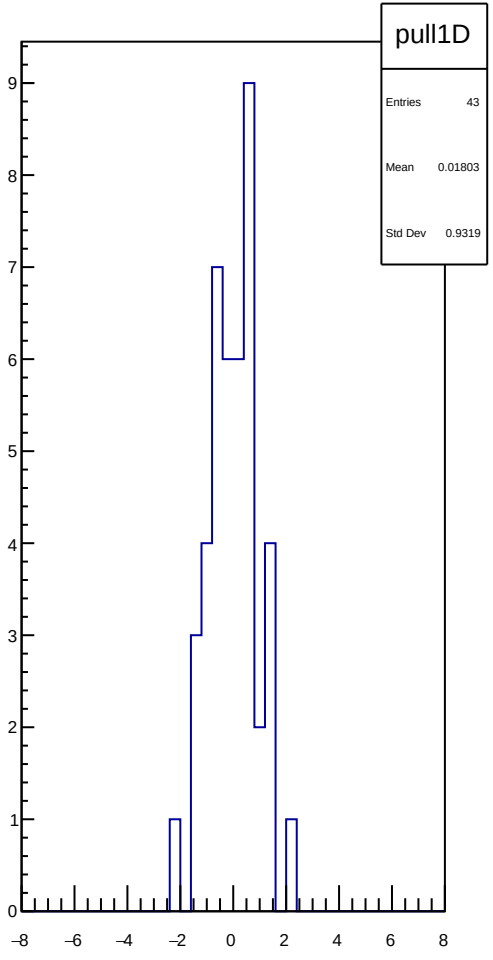

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.673e+04 / 42
p0 0.01205 ± 1.342e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

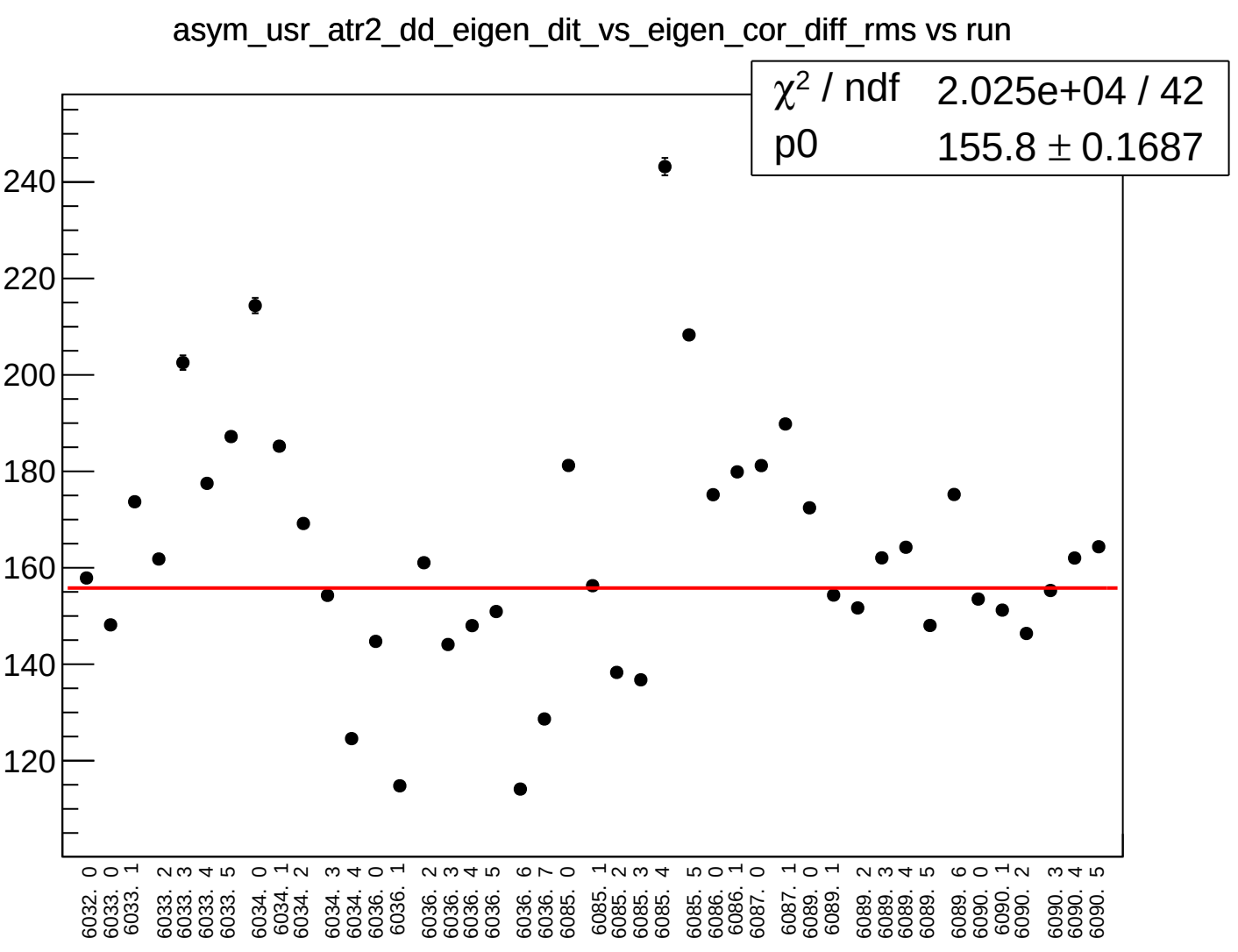

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.36 / 42
p0 0.32 ± 0.2386
pull
Entries 43
Mean −64.23
Std Dev 0

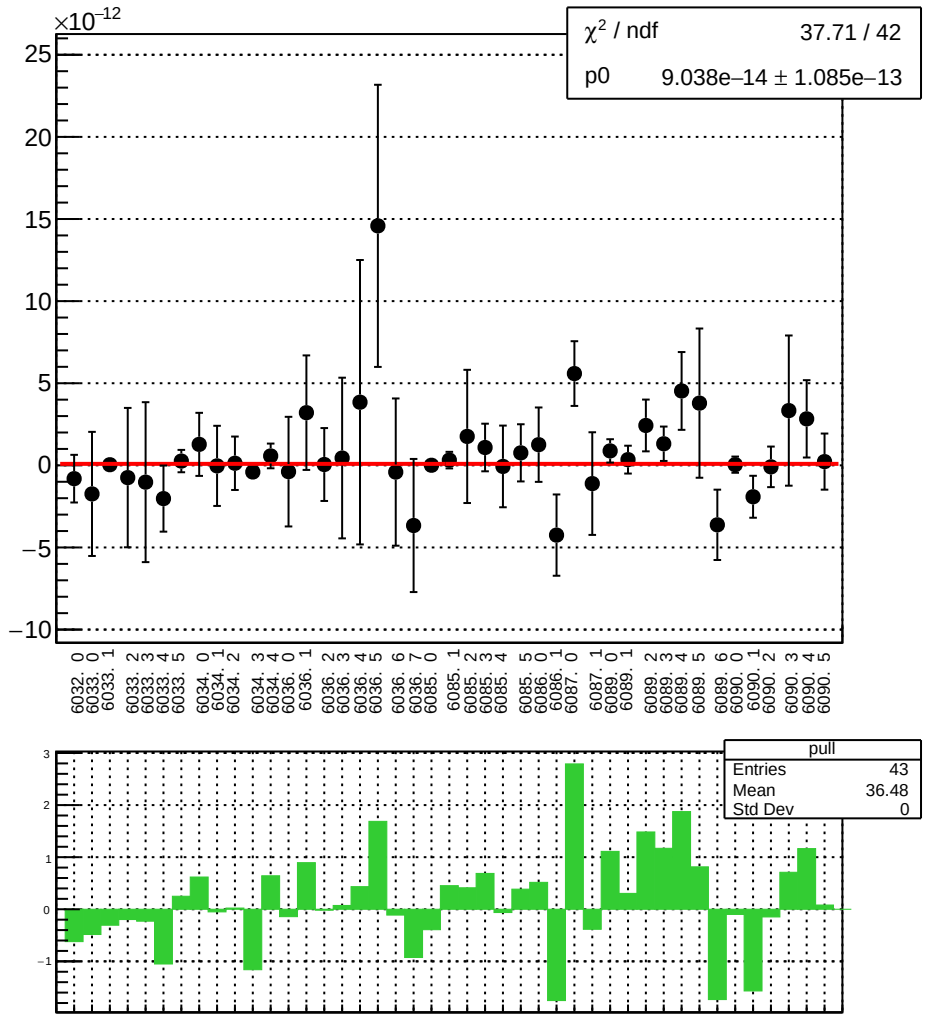

pull1D
Entries 43
Mean 0.01803
Std Dev 0.9319

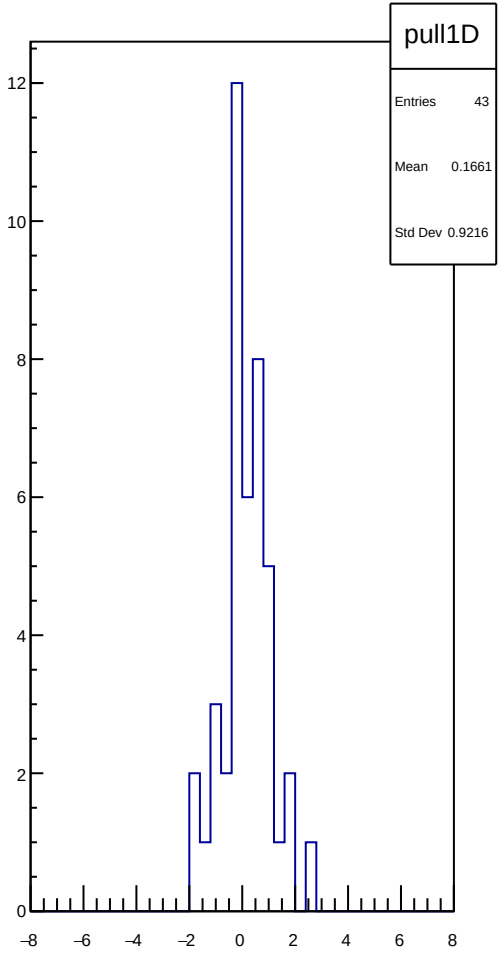

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+04 / 42
p0 155.8 ± 0.1687
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

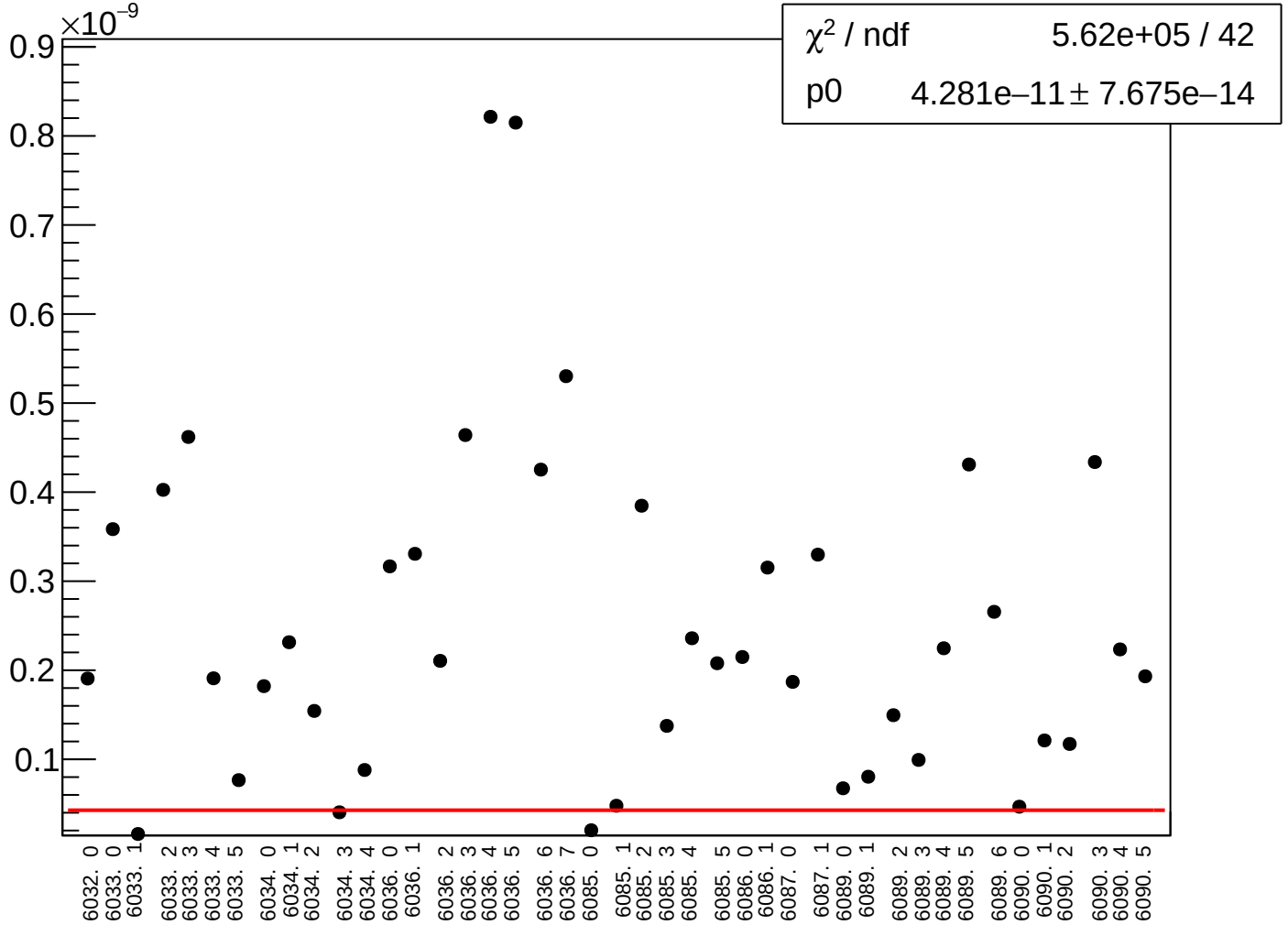

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.36 / 42
p0 0.32 ± 0.2386
6
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.23
Std Dev 0
2
1
0
−1
−2

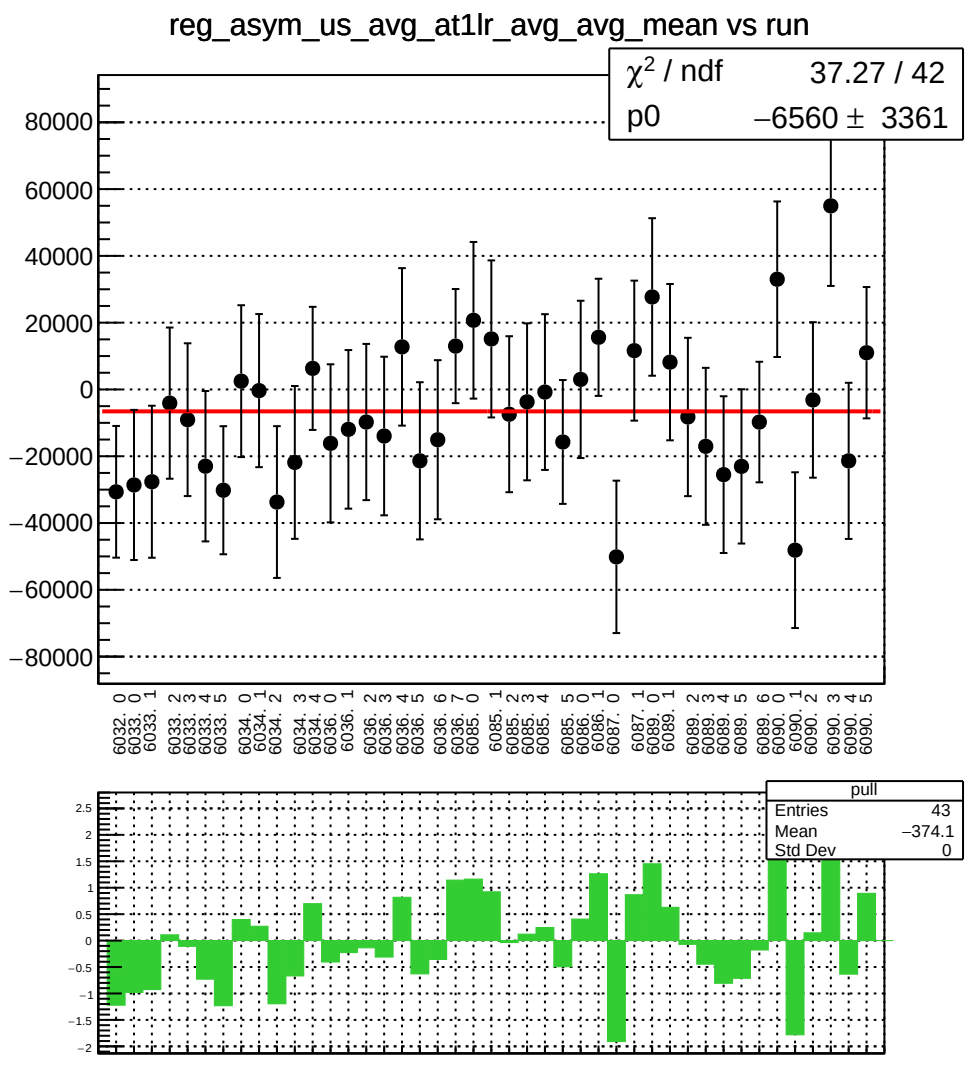

pull1D
Entries 43
Mean 0.01803
Std Dev 0.9319
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

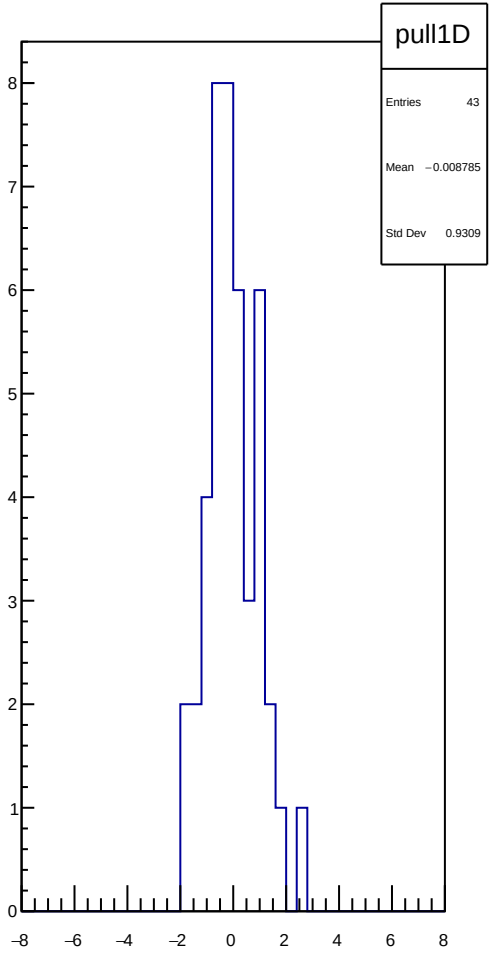

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+04 / 42
p0 155.8 ± 0.1687
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

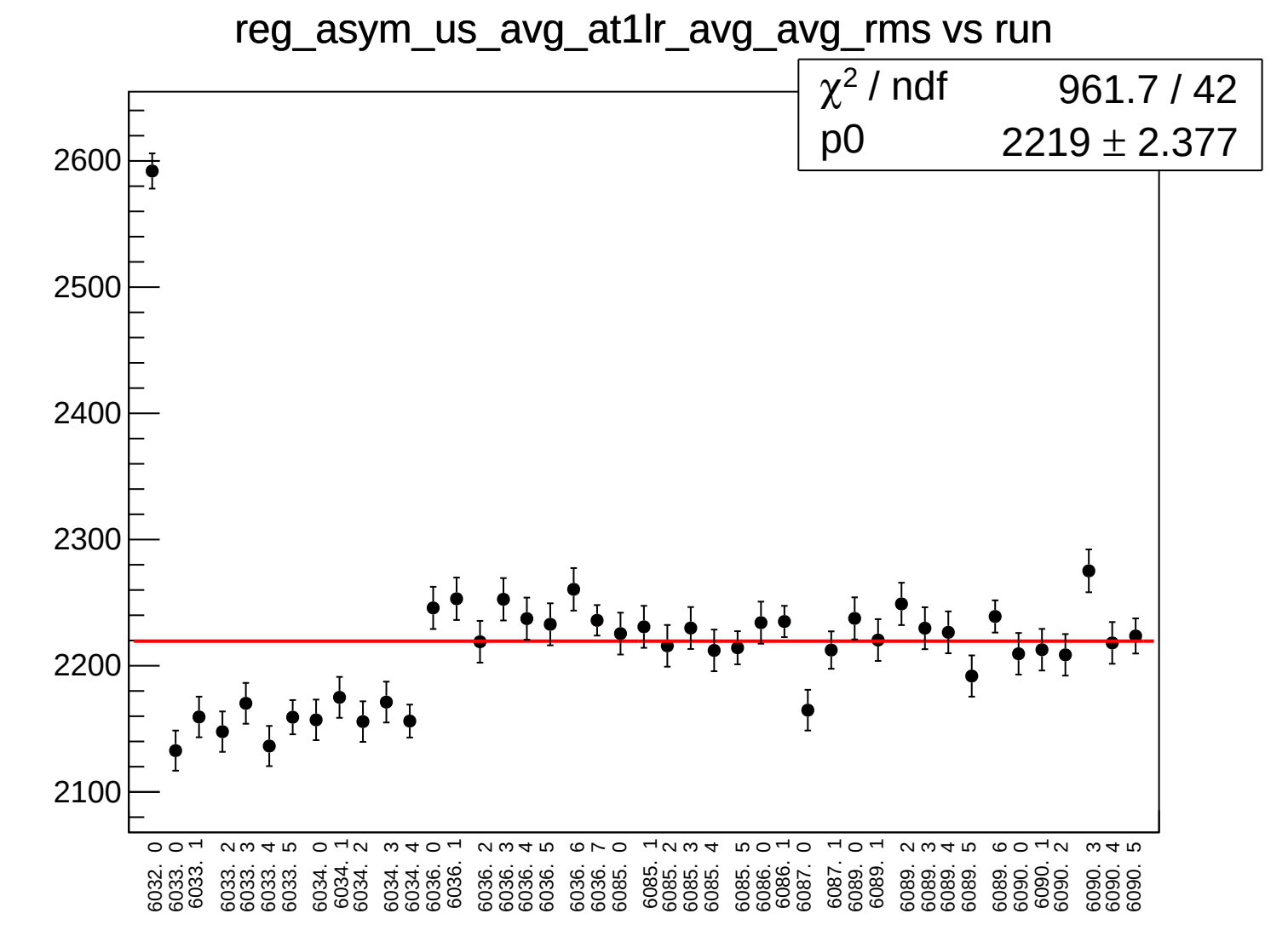

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.71 / 42
p0 9.038e−14 ± 1.085e−13
pull
Entries 43
Mean 36.48
Std Dev 0

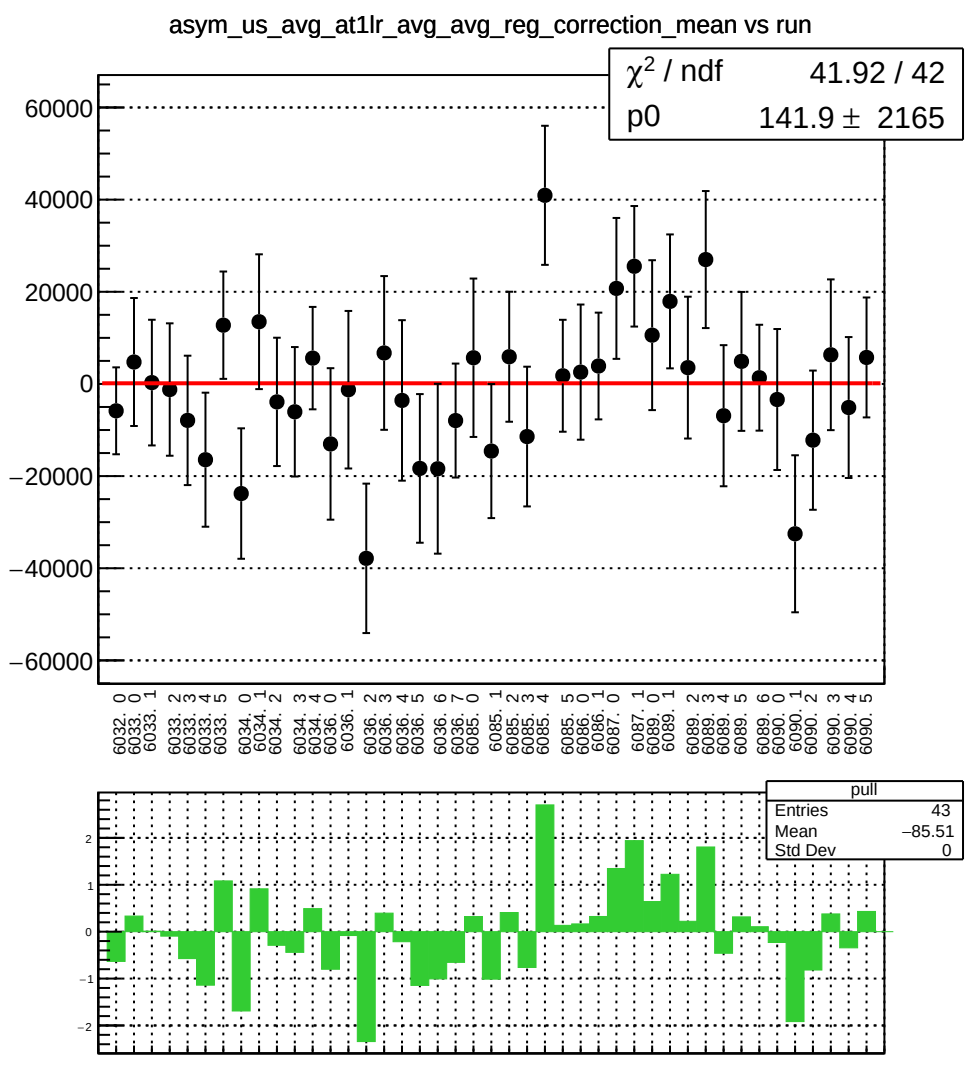

pull1D
Entries 43
Mean 0.1661
Std Dev 0.9216

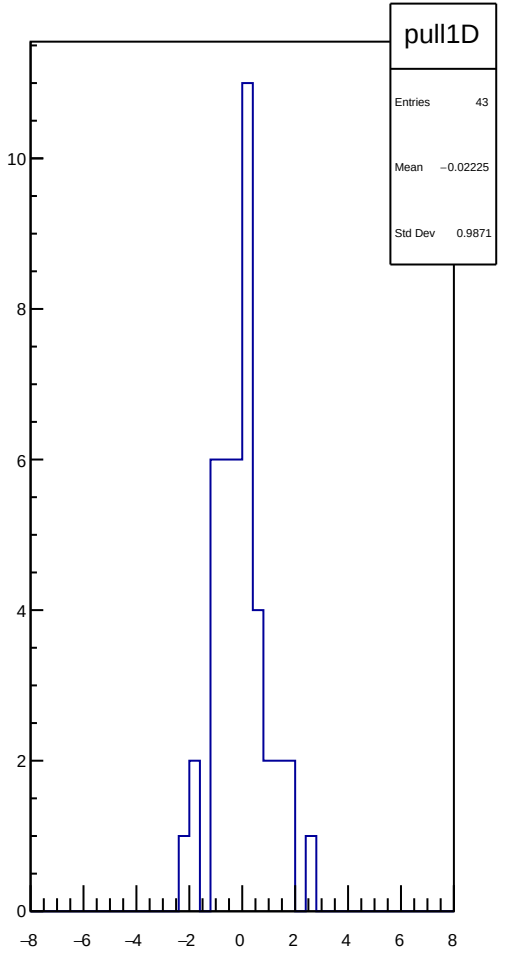

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.62e+05 / 42
p0 4.281e−11 ± 7.675e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

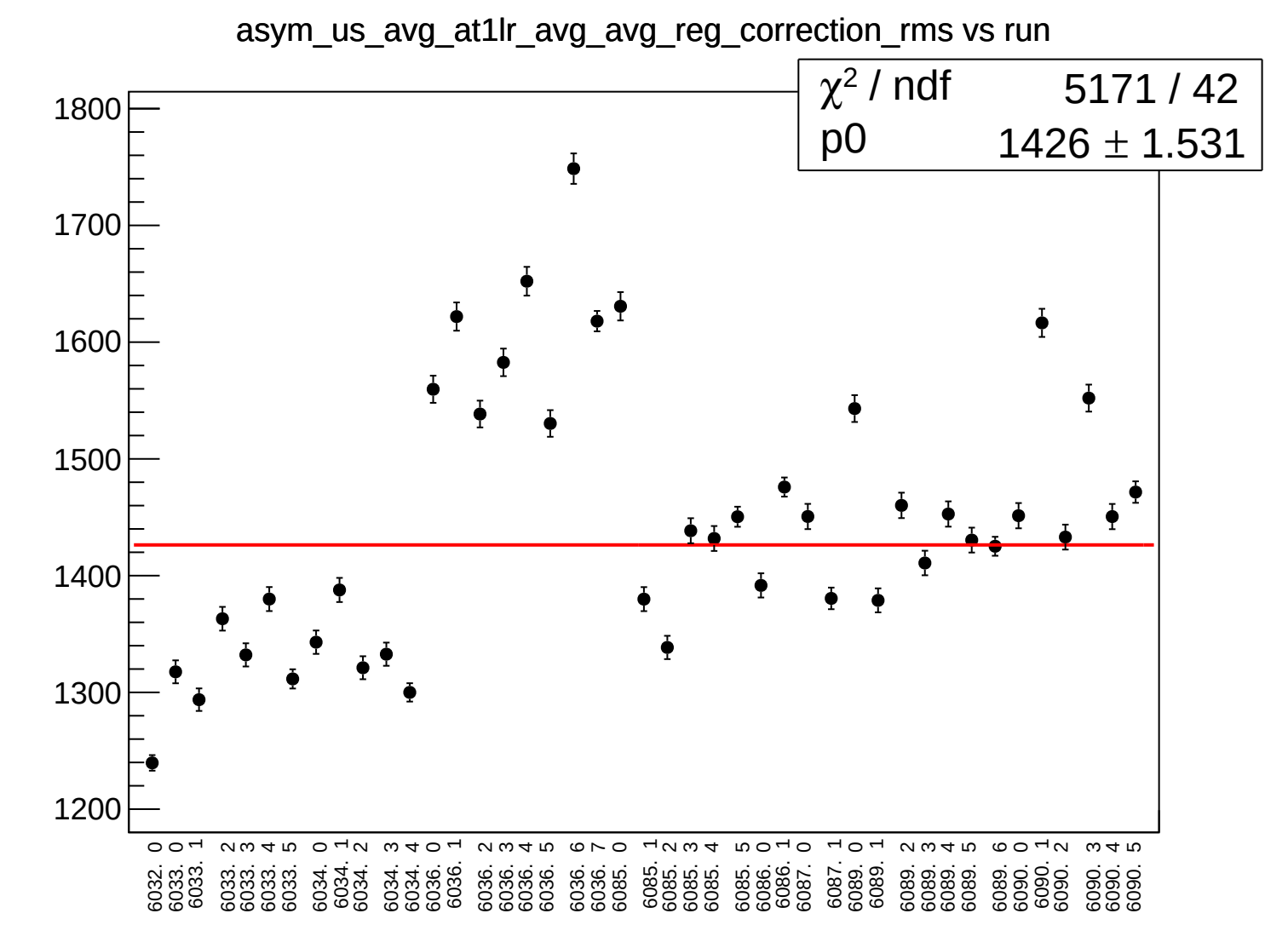

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 37.27 / 42
p0 −6560 ± 3361
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −374.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

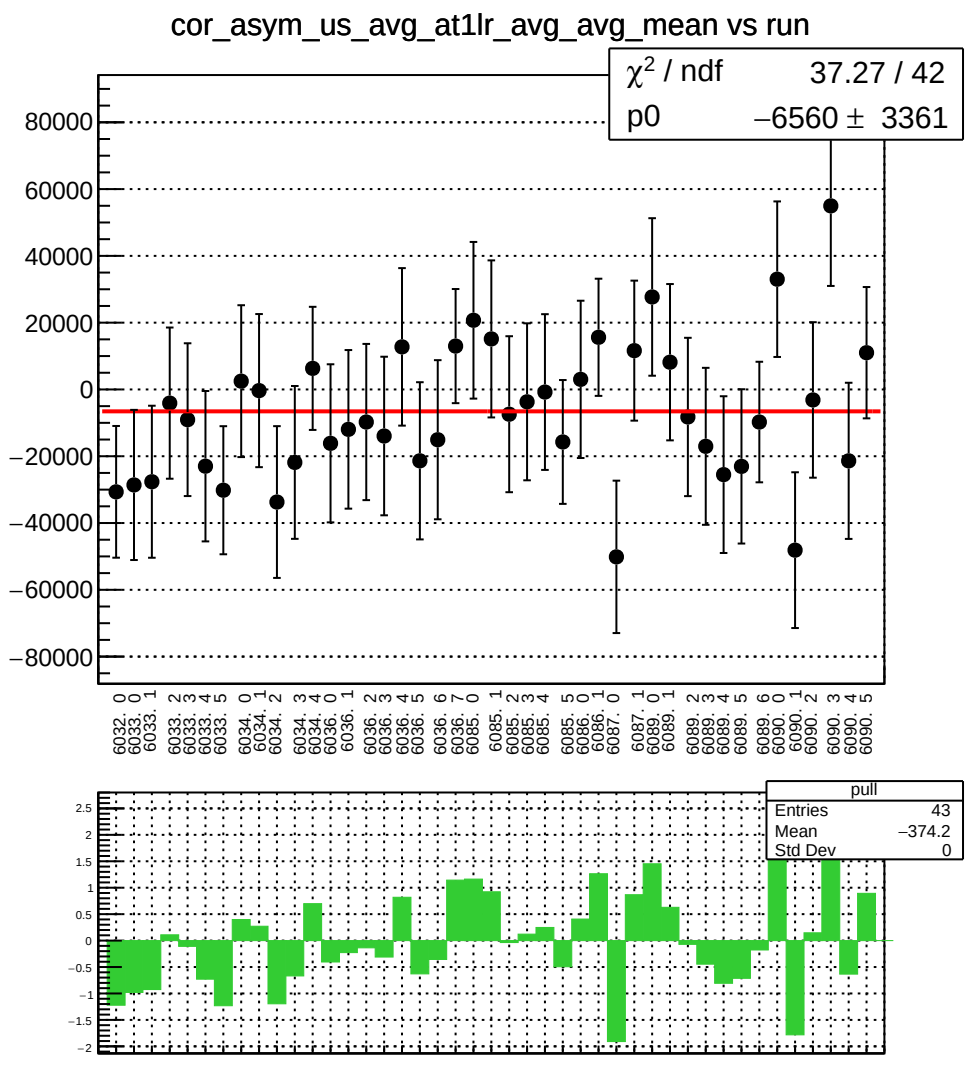

pull1D
Entries 43
Mean −0.008785
Std Dev 0.9309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

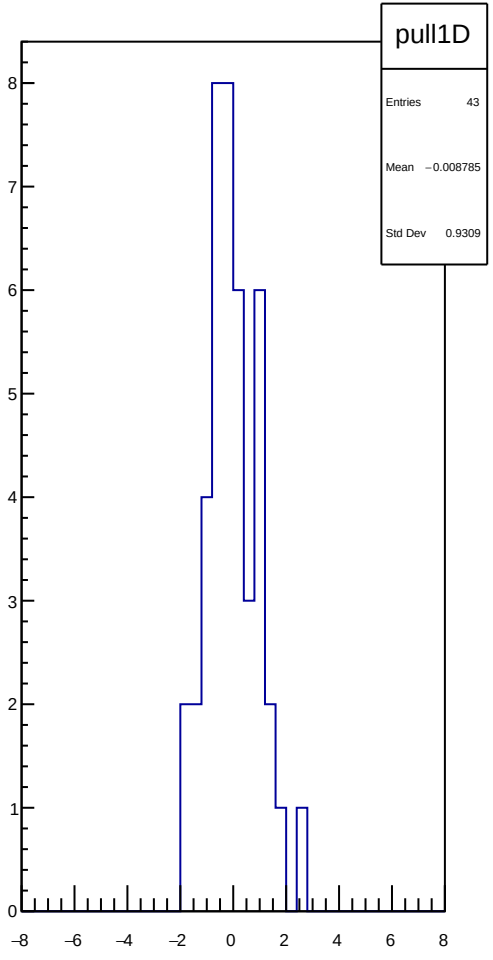

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 961.7 / 42
p0 2219 ± 2.377
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

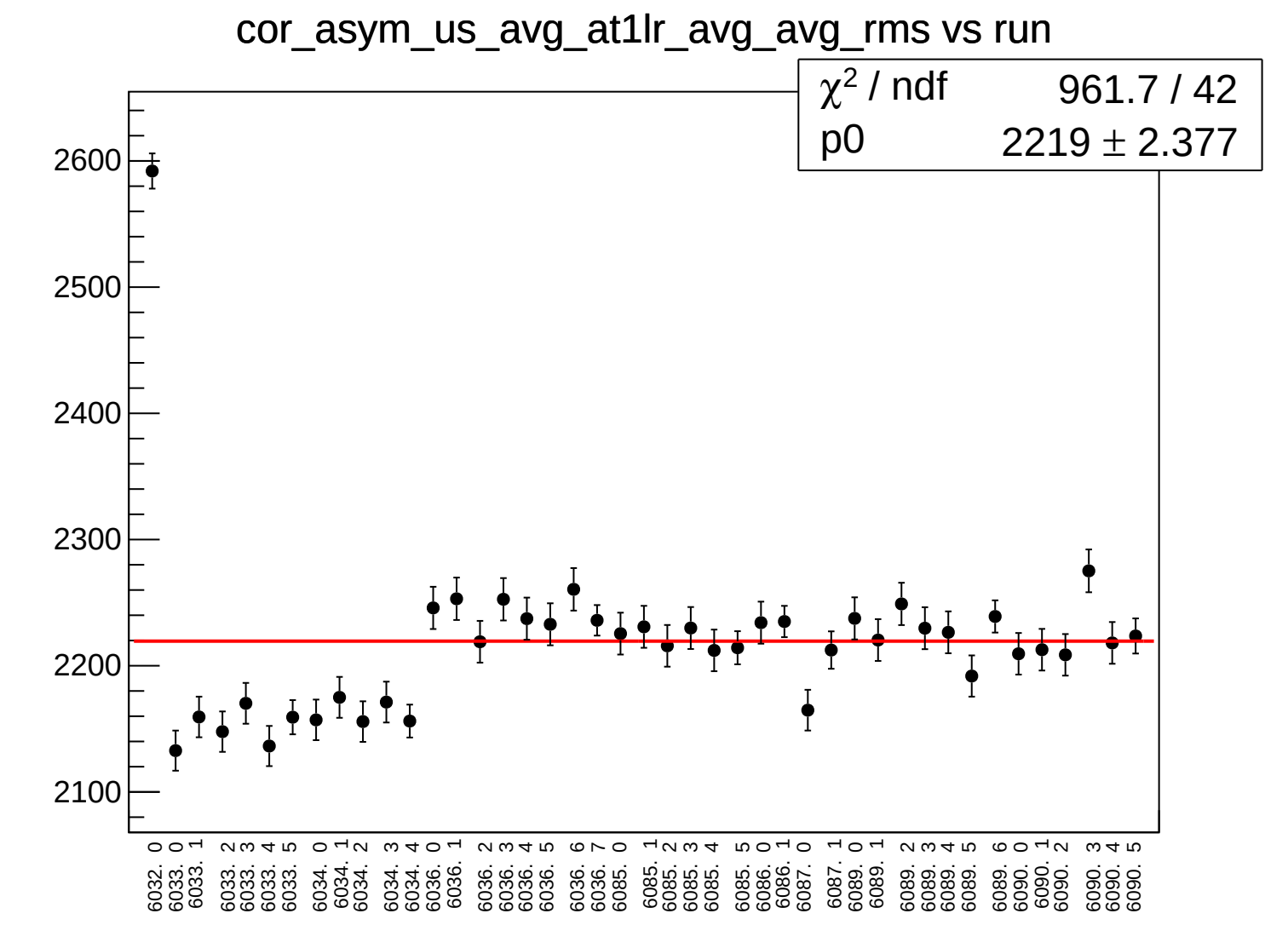

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 41.92 / 42
p0 141.9 ± 2165
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −85.51
Std Dev 0
2
1
0
−1
−2

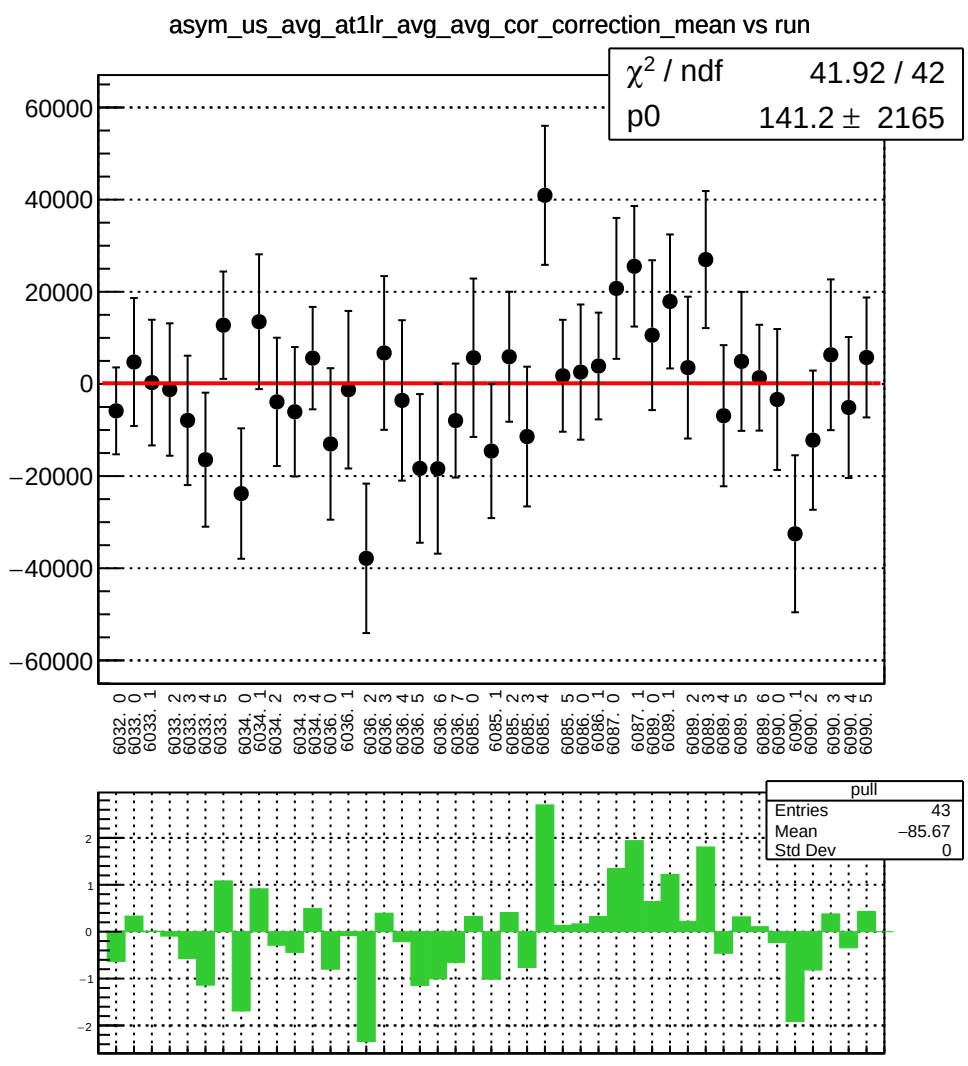

pull1D
Entries 43
Mean −0.02225
Std Dev 0.9871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

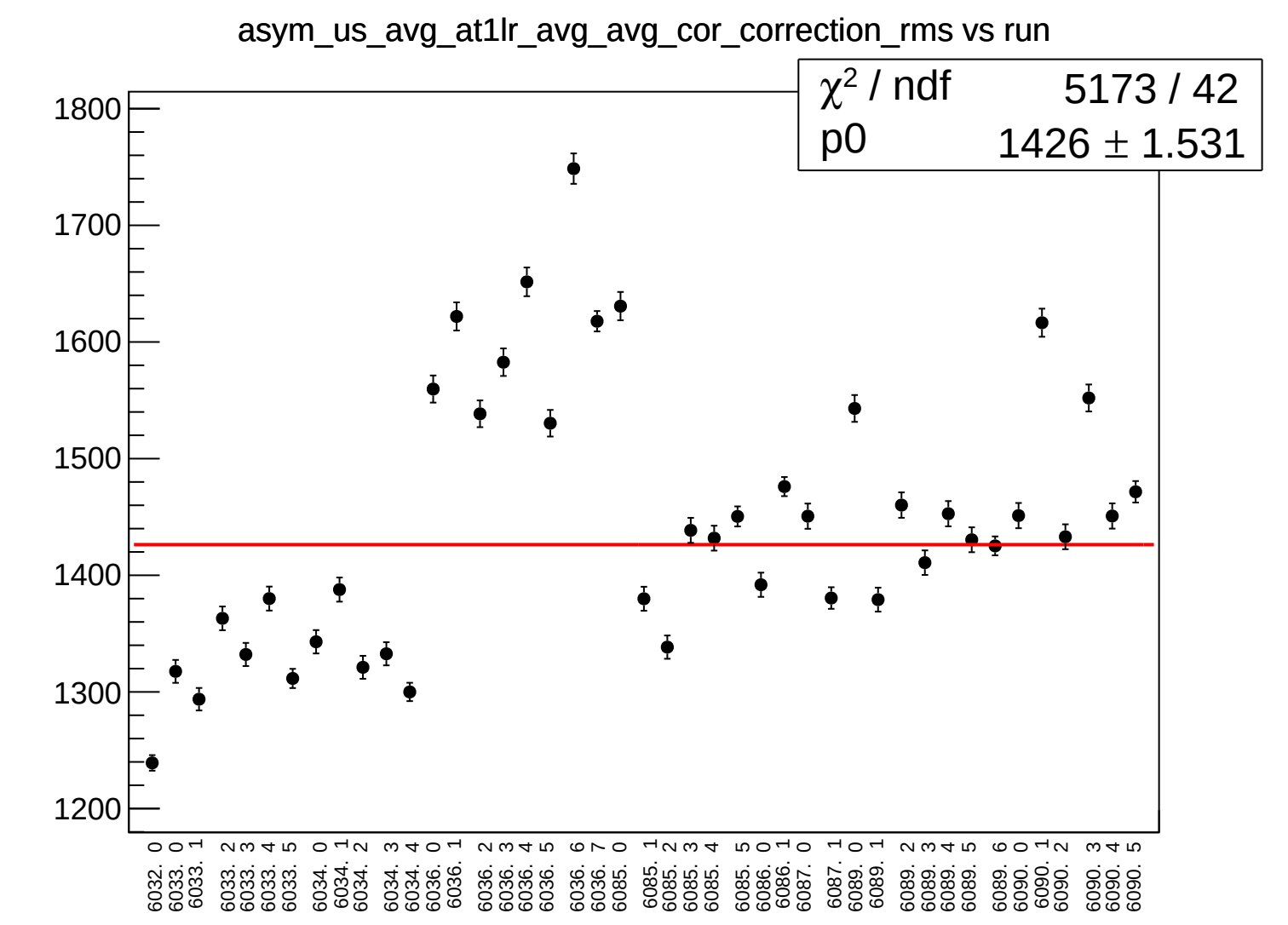

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5171 / 42
p0 1426 ± 1.531
1800
1700
1600
1500
1400
1300
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 37.27 / 42
p0 −6560 ± 3361
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −374.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.008785
Std Dev 0.9309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 961.7 / 42
p0 2219 ± 2.377
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 41.92 / 42
p0 141.2 ± 2165
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −85.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02223
Std Dev 0.9871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5173 / 42
p0 1426 ± 1.531
1800
1700
1600
1500
1400
1300
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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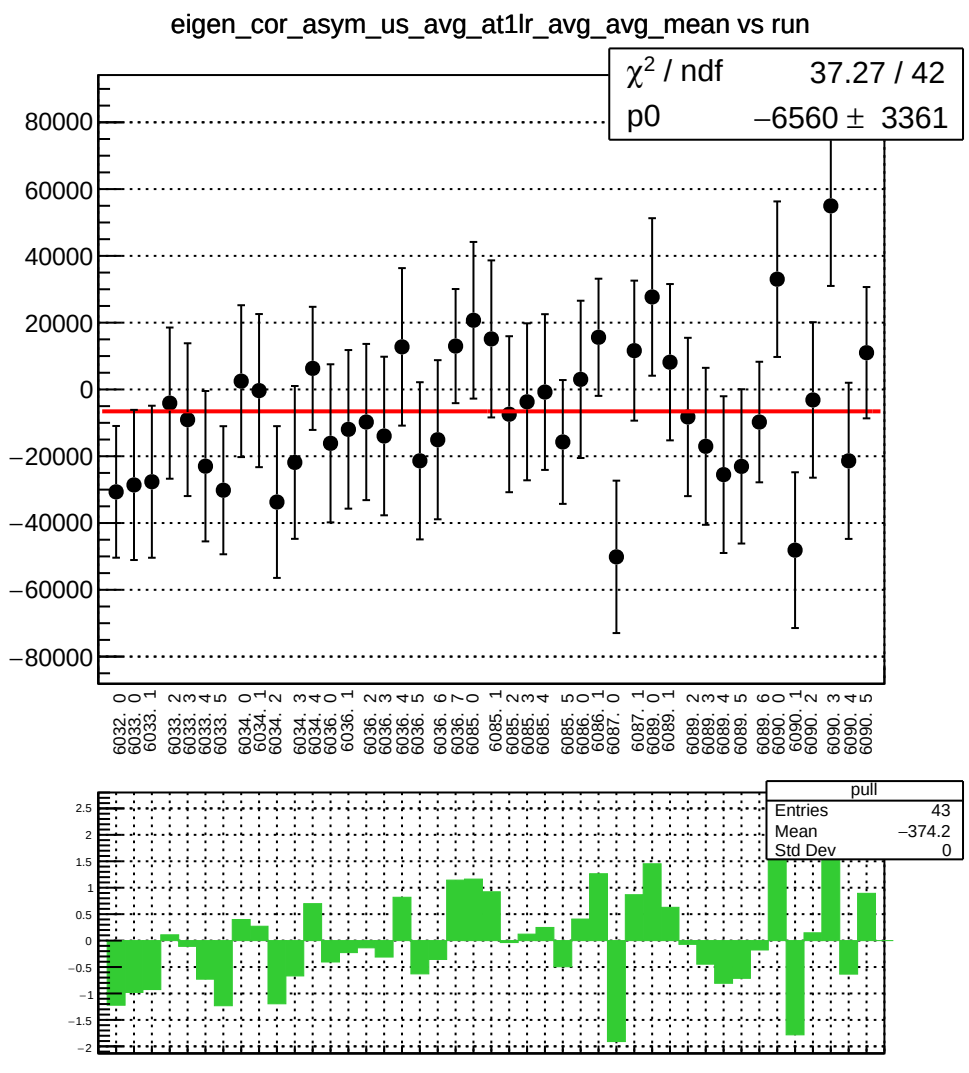
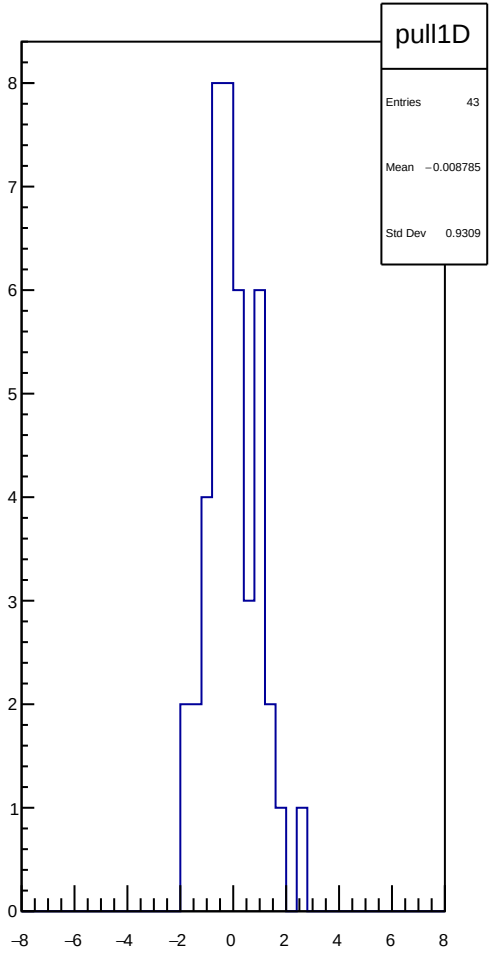
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 37.27 / 42
p0 −6560 ± 3361
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −374.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.008785
Std Dev 0.9309
8
7
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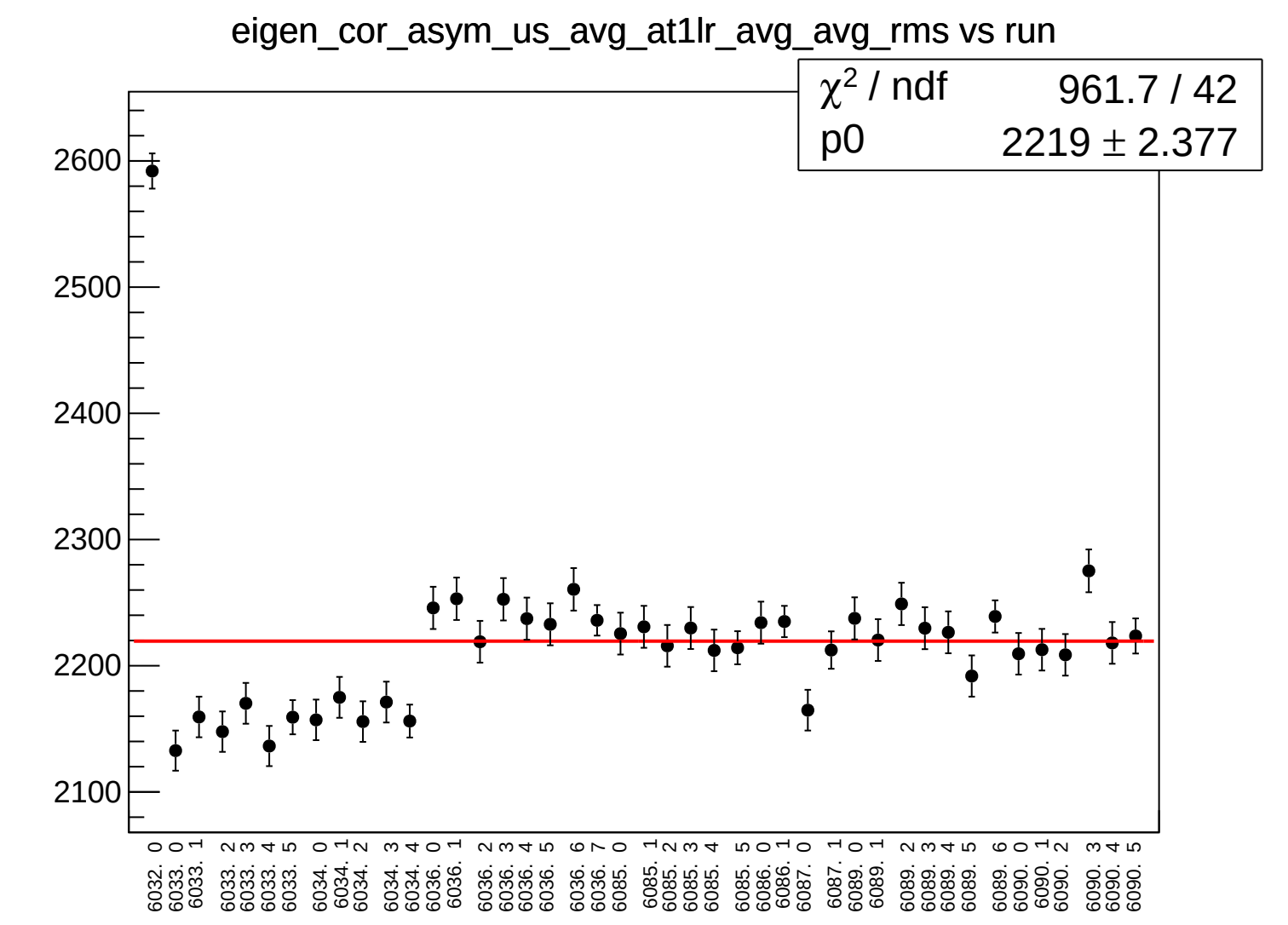
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 961.7 / 42
p0 2219 ± 2.377
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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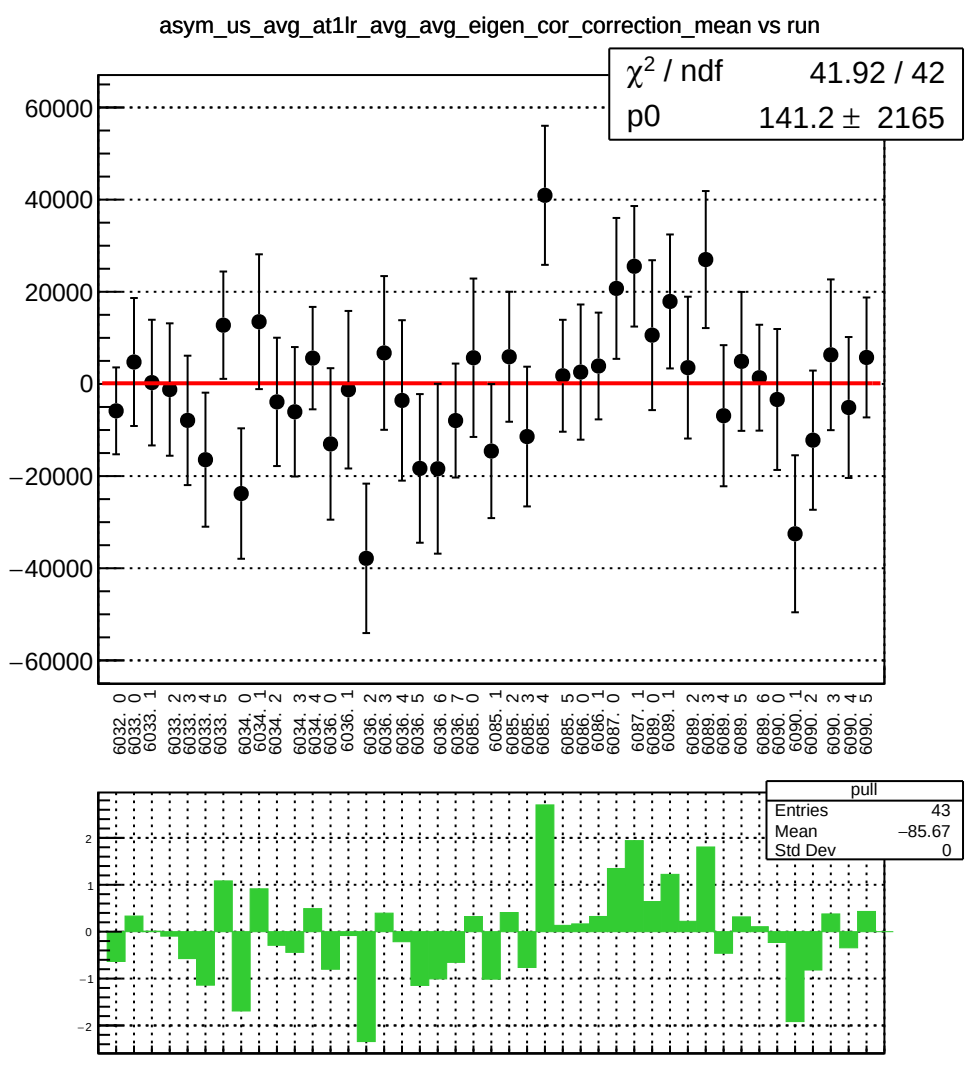
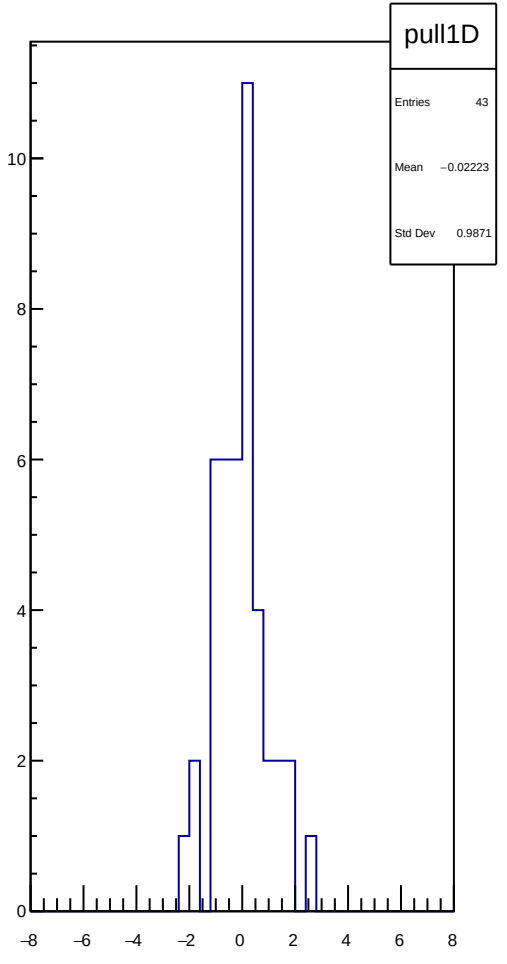
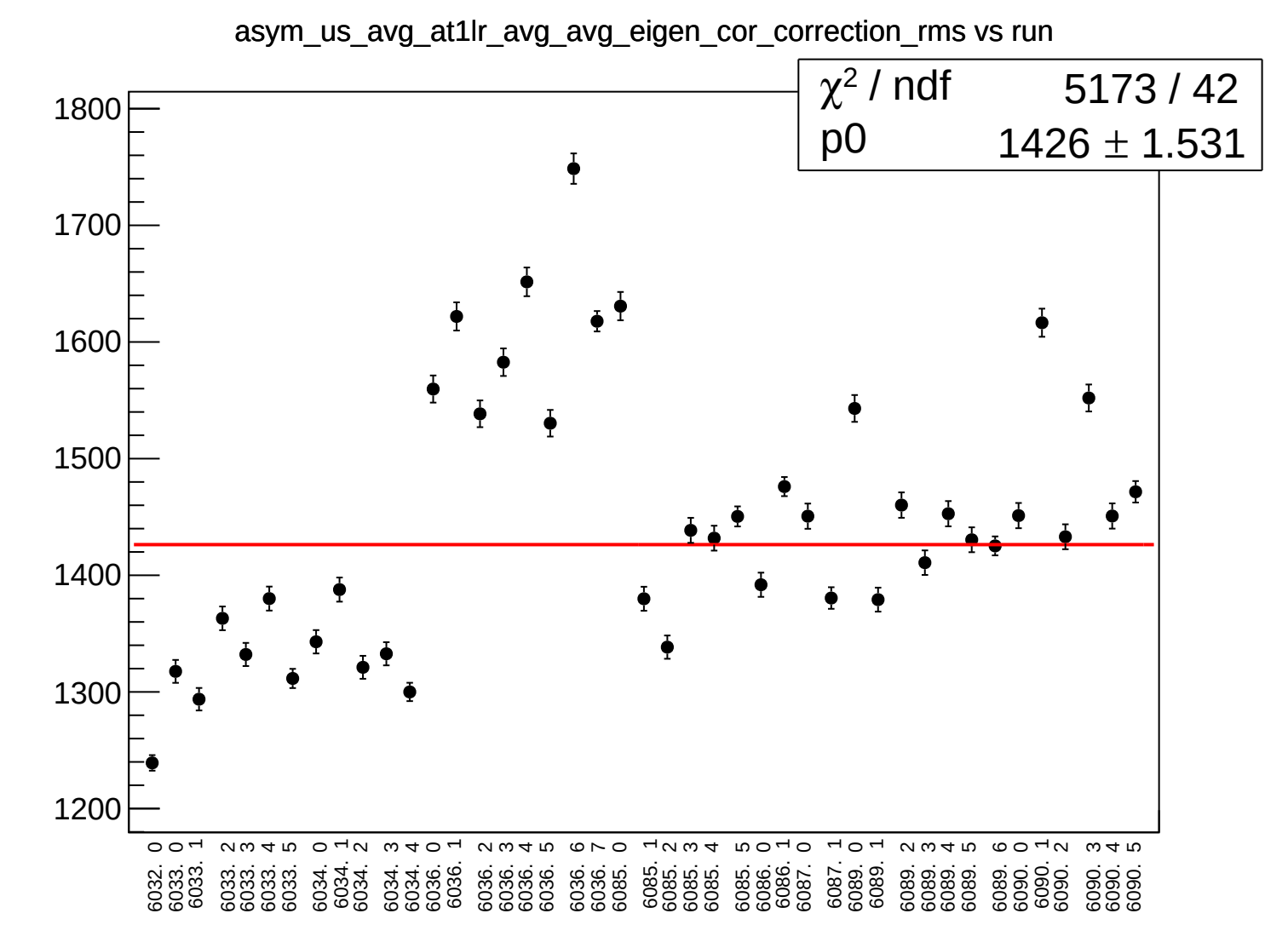
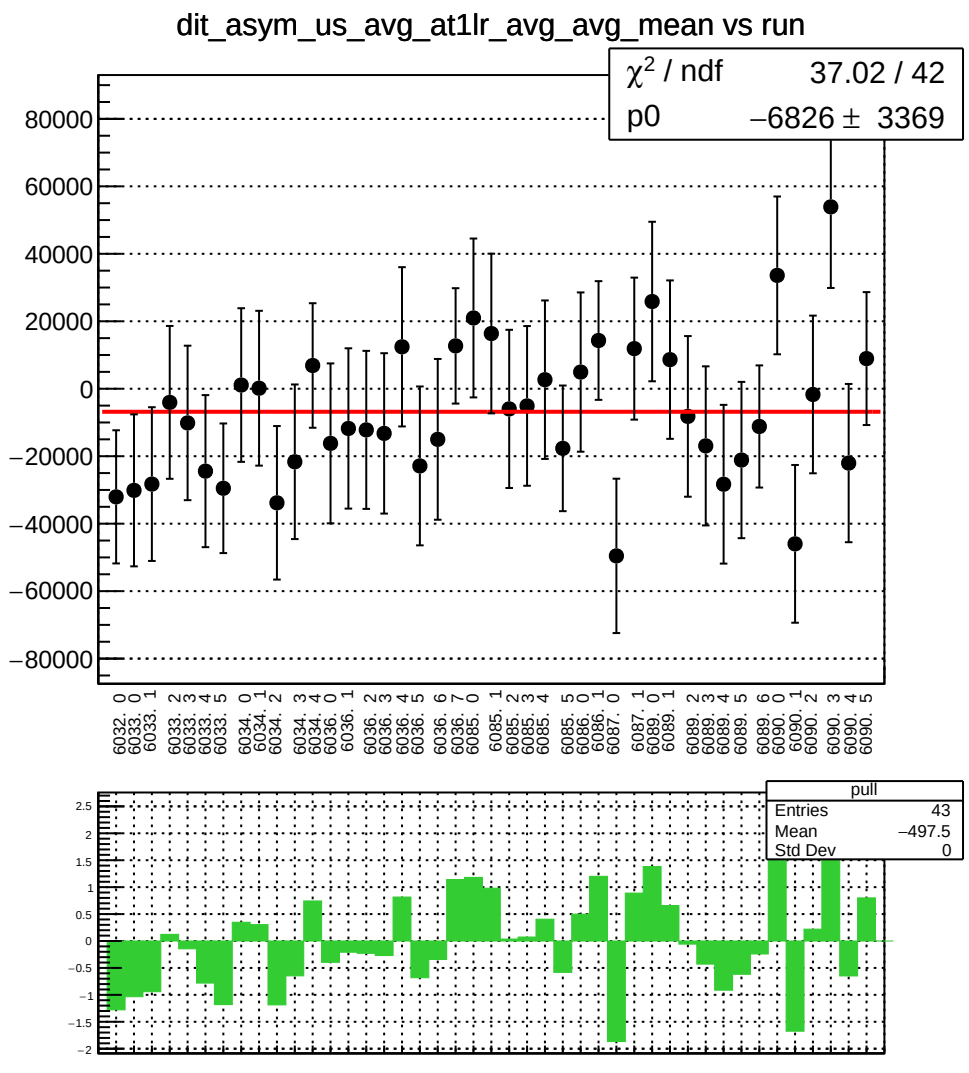
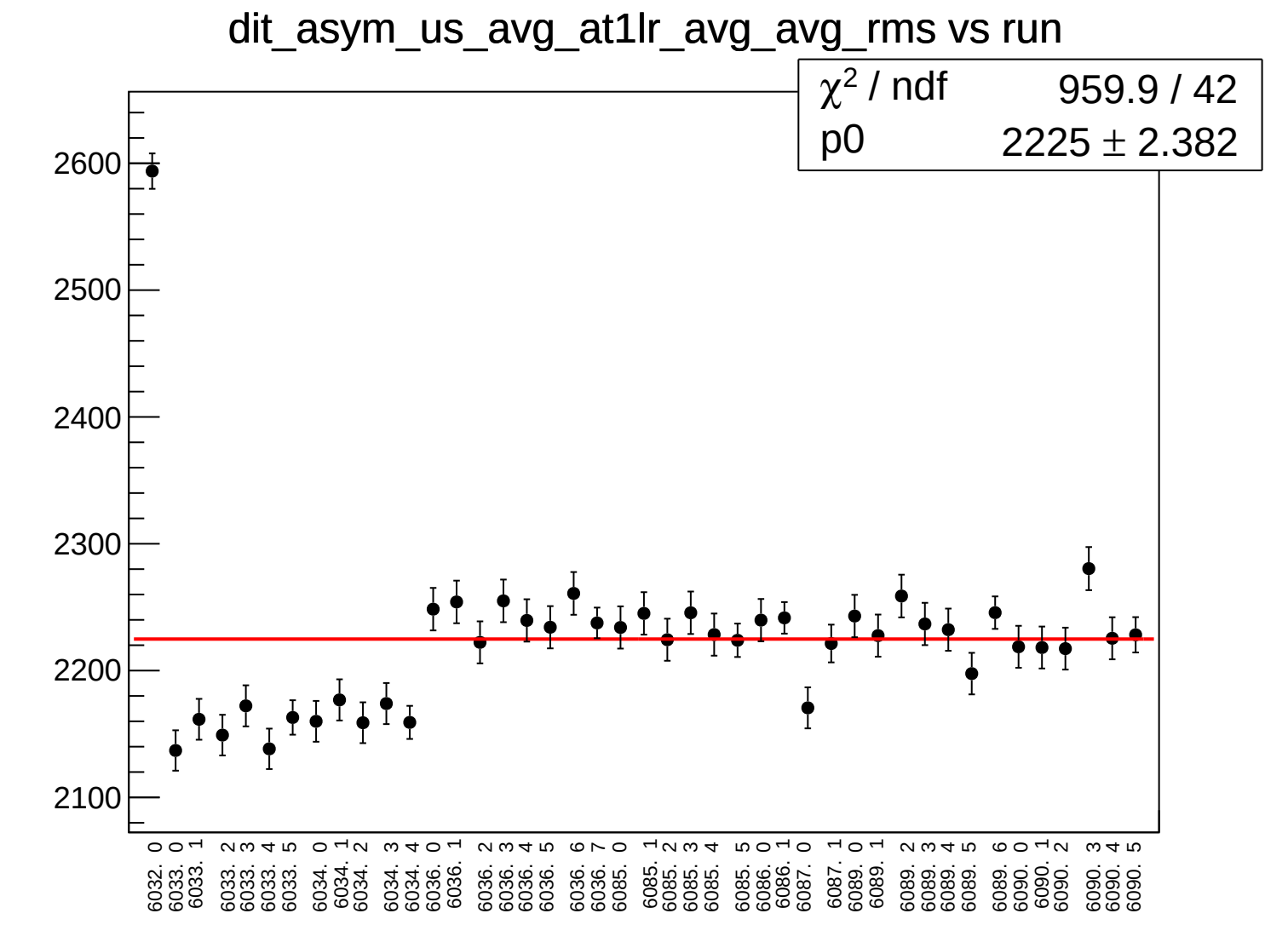
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.92 / 42
p0 141.2 ± 2165
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −85.67
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.02223
Std Dev 0.9871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5173 / 42
p0 1426 ± 1.531
1800
1700
1600
1500
1400
1300
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 37.02 / 42
p0 −6826 ± 3369
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −497.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.006834
Std Dev 0.9278
8
7
6
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 959.9 / 42
p0 2225 ± 2.382
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
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6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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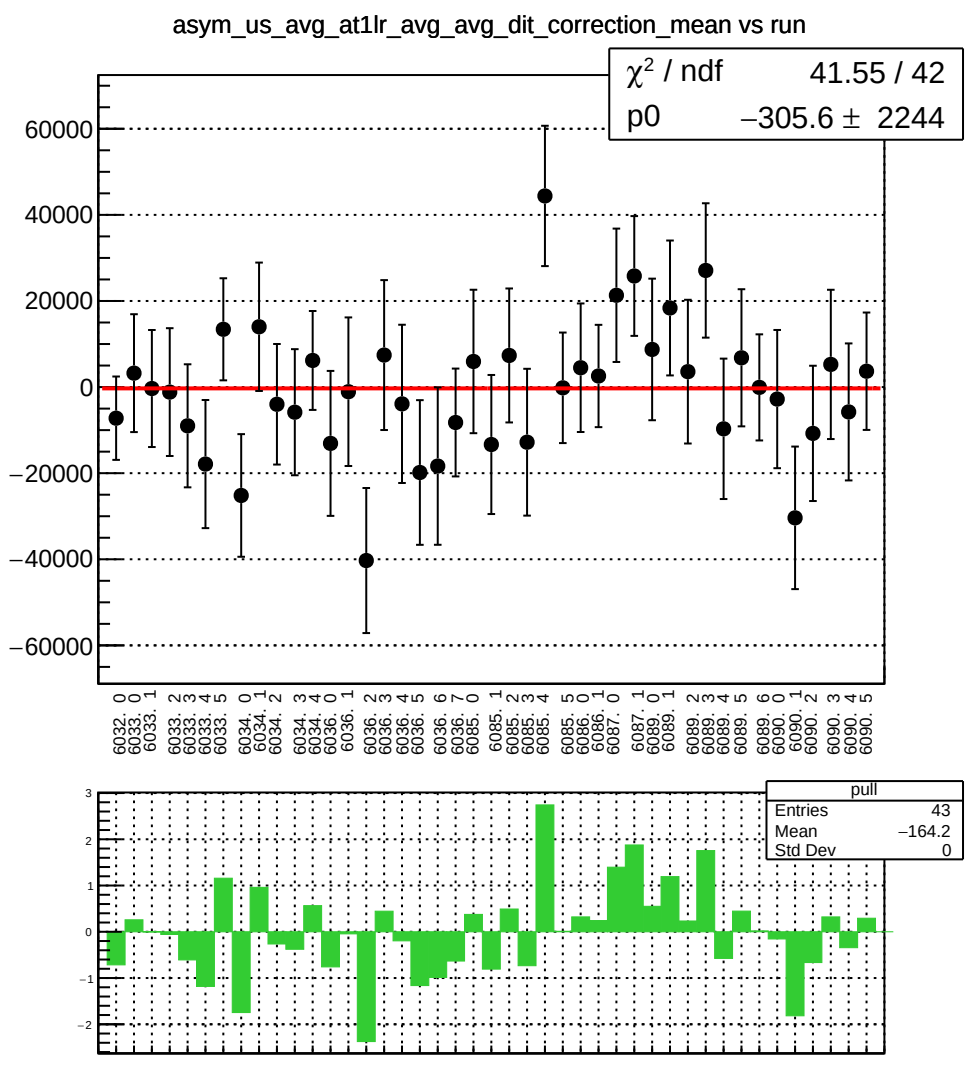
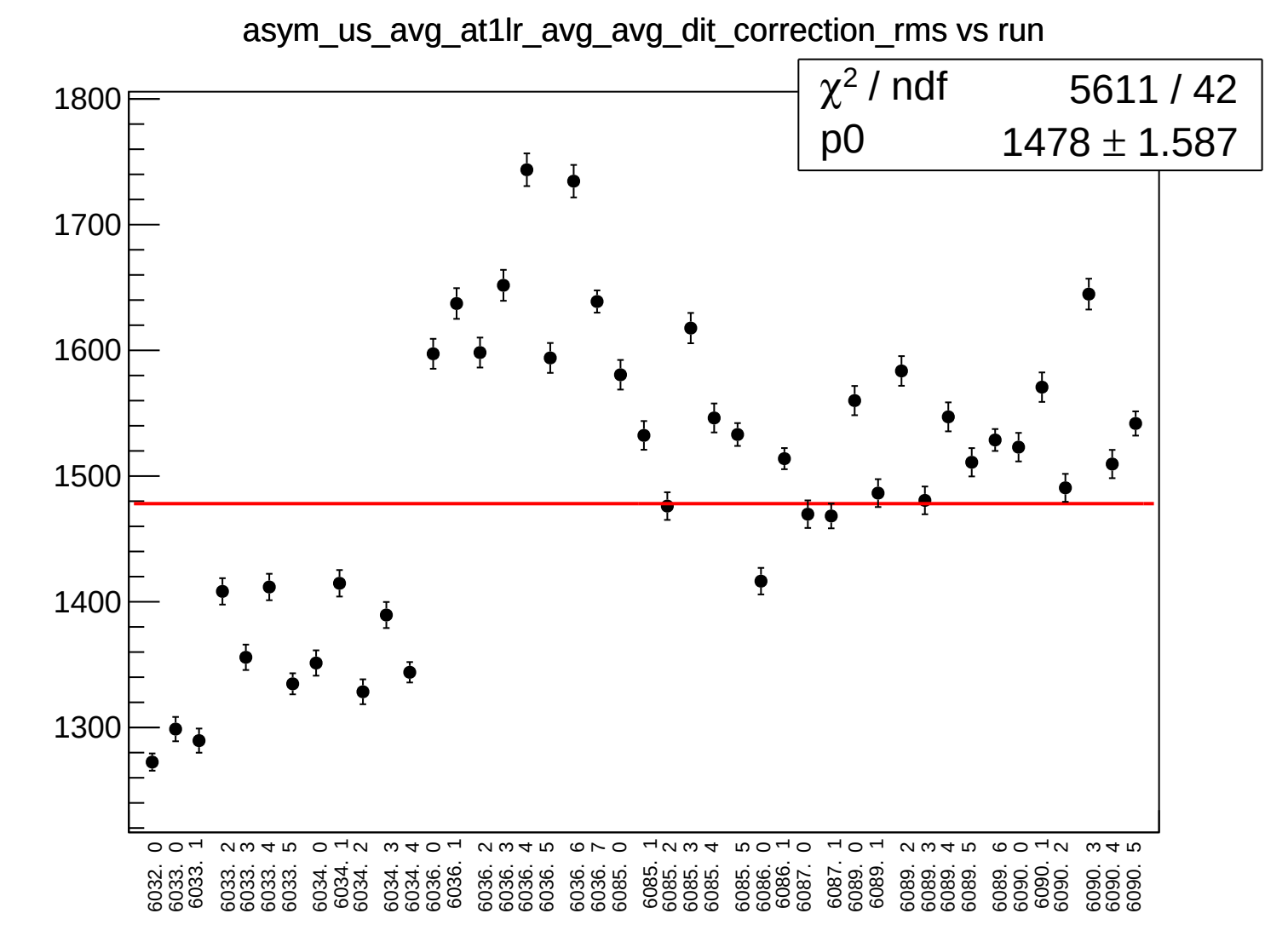
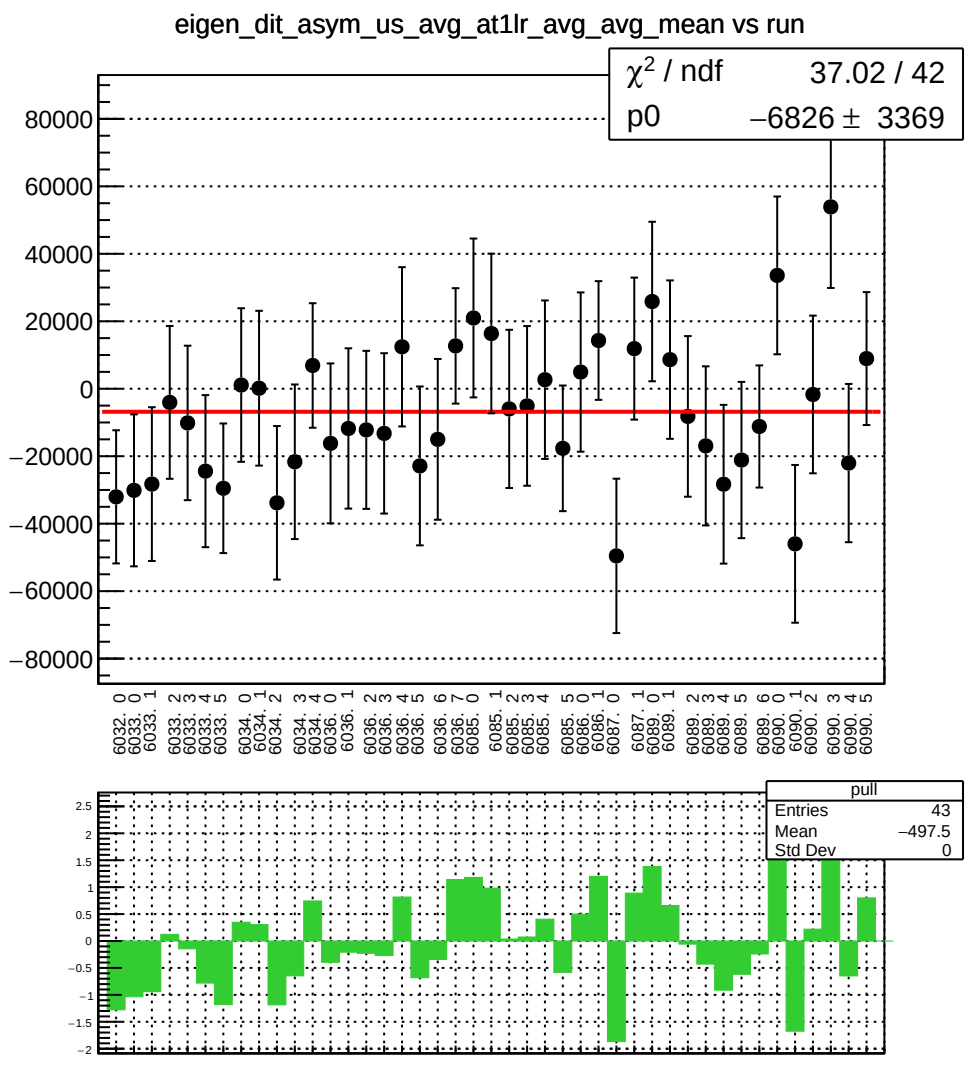
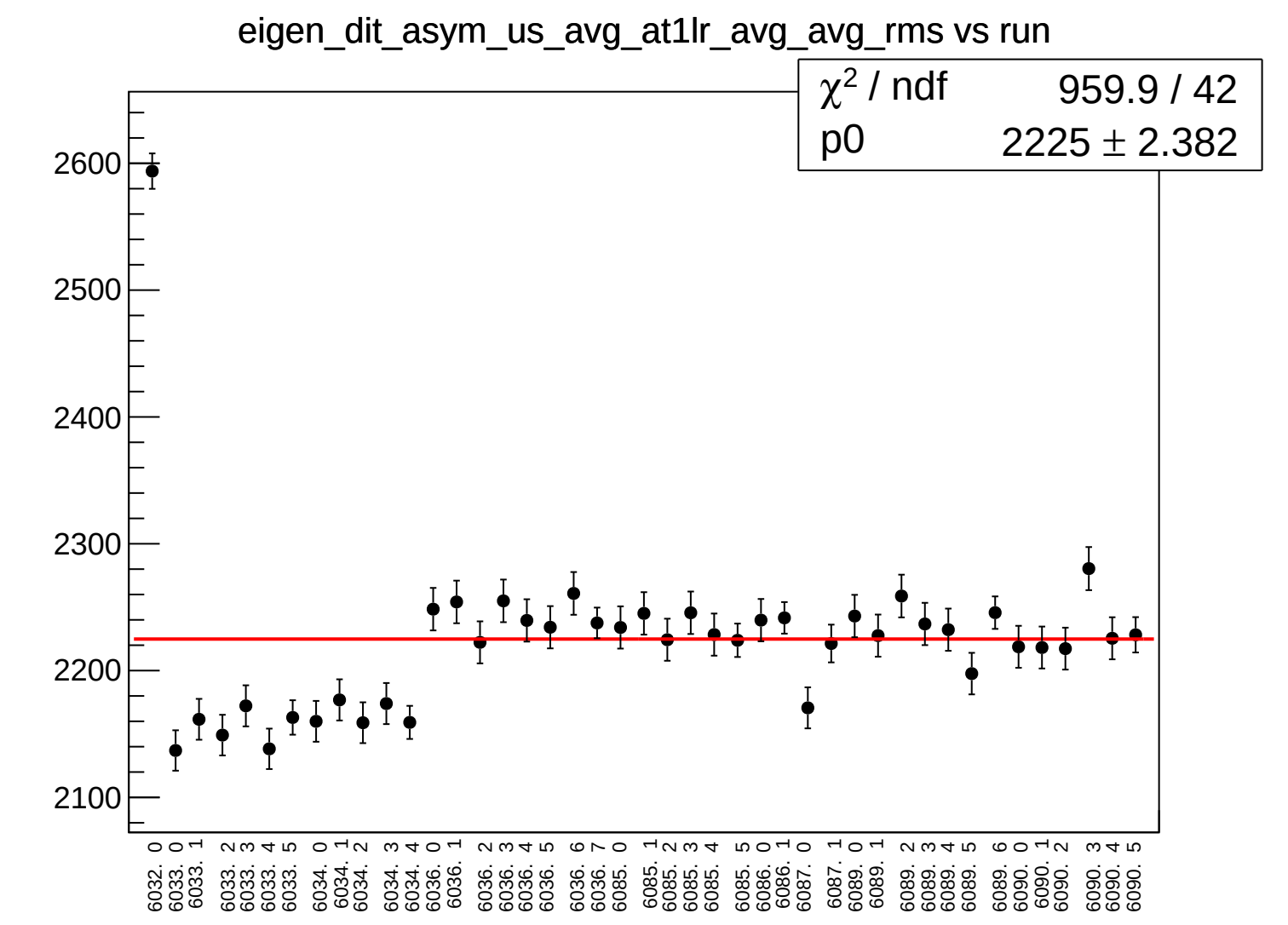
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 41.55 / 42
p0 −305.6 ± 2244
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −164.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01275
Std Dev 0.9829
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_dit_correction_rms vs run
χ² / ndf 5611 / 42
p0 1478 ± 1.587
1800
1700
1600
1500
1400
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 37.02 / 42
p0 −6826 ± 3369
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −497.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.006834
Std Dev 0.9278
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_avg_rms vs run
χ² / ndf 959.9 / 42
p0 2225 ± 2.382
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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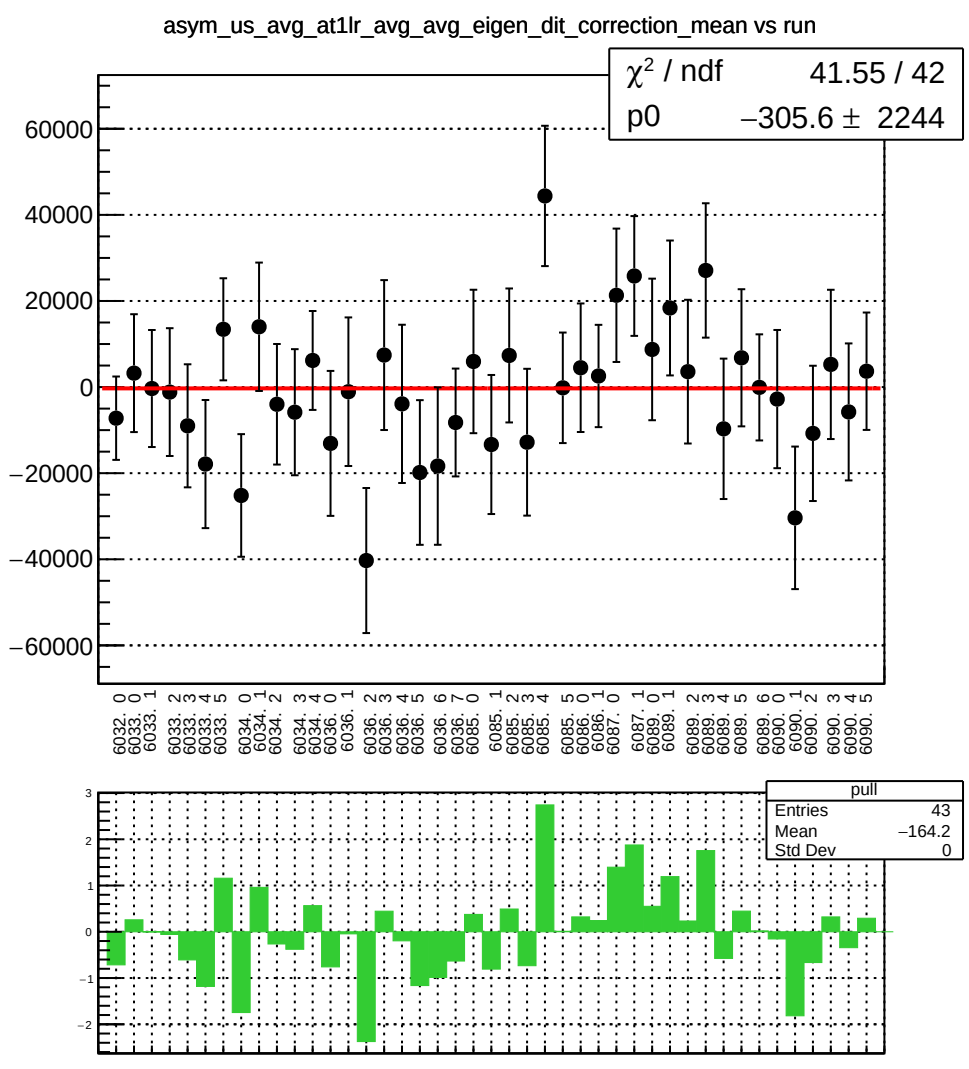
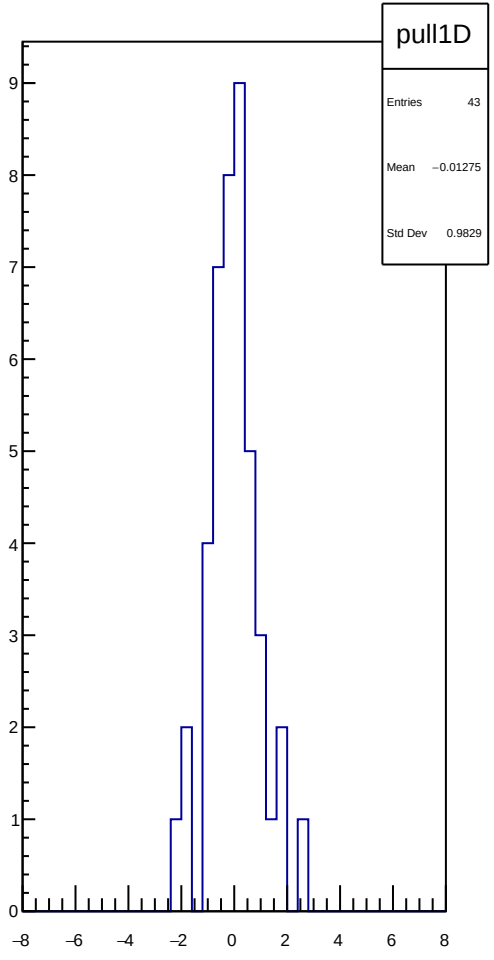
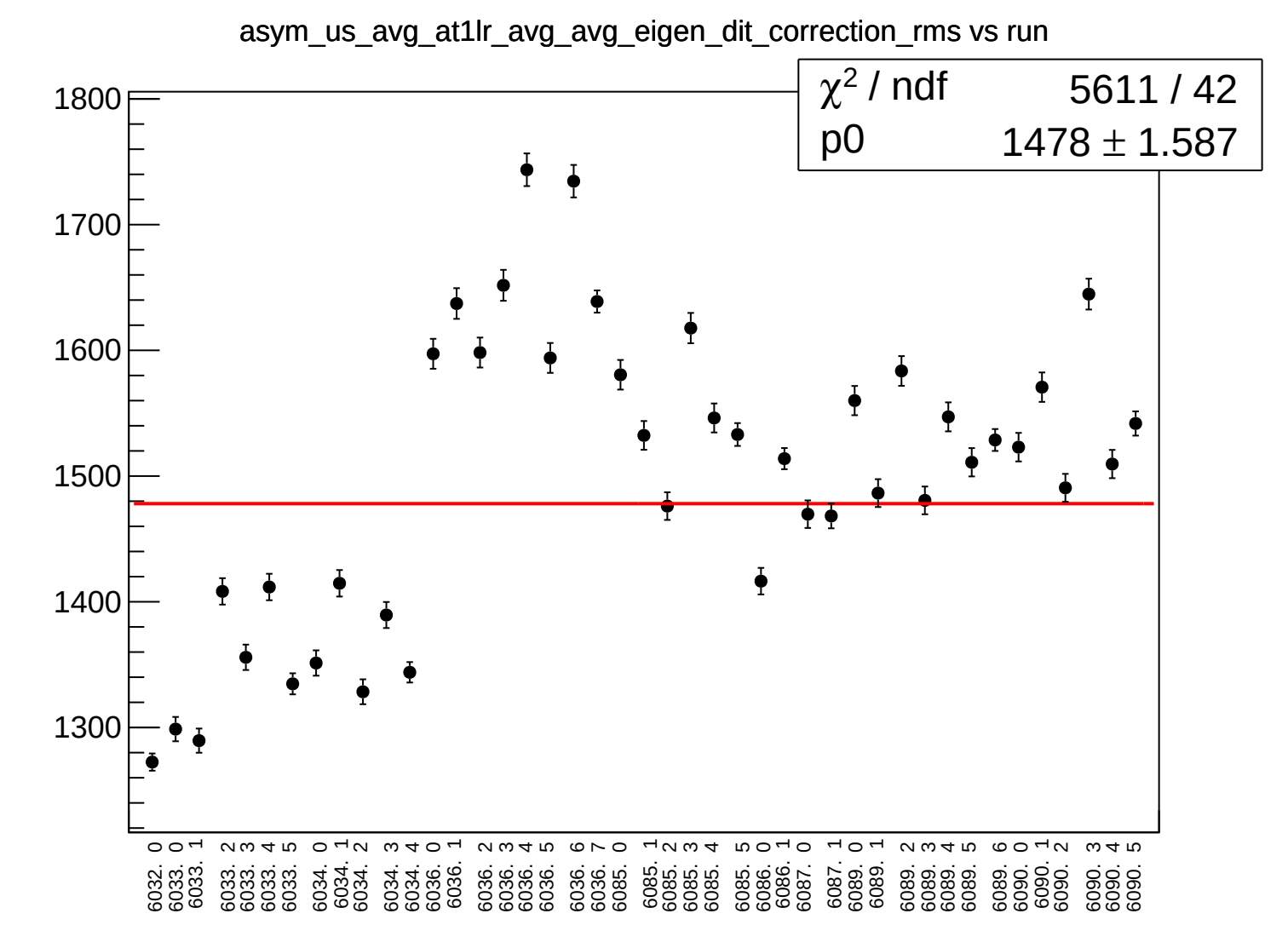
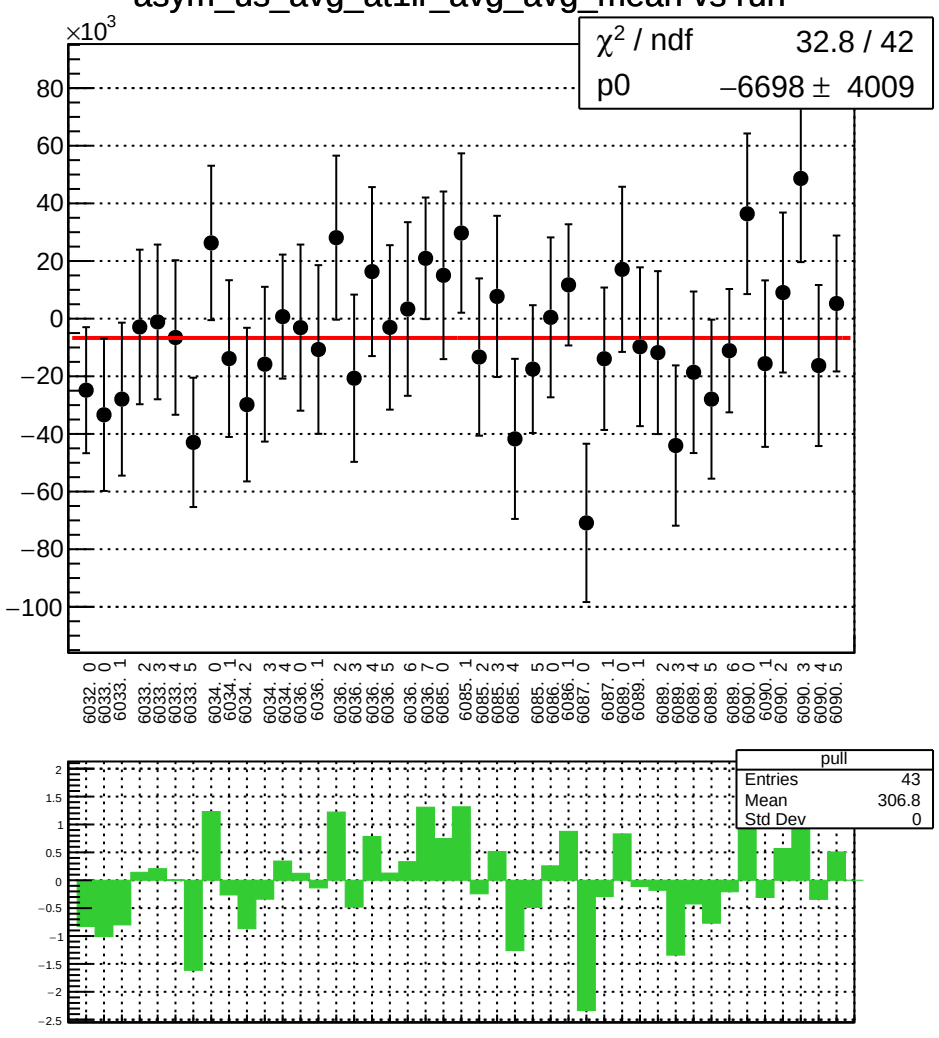
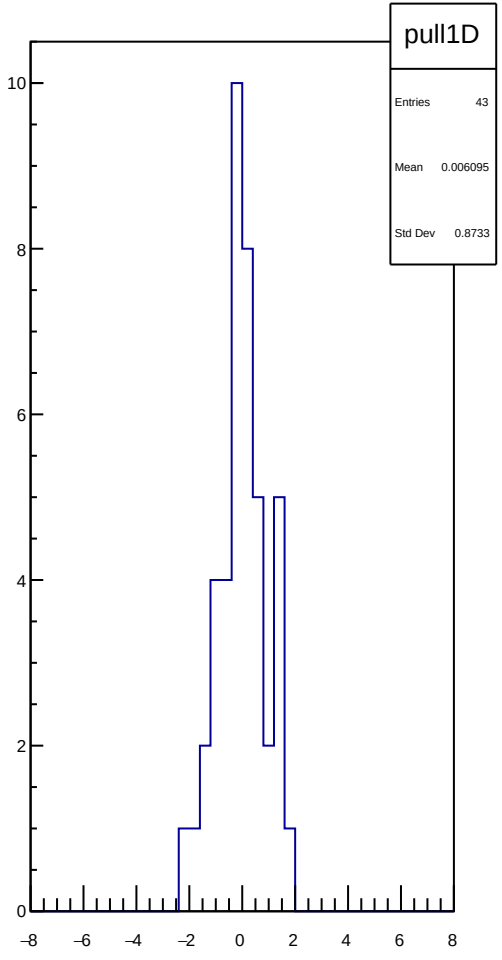
6090. 2
6090. 3
6090. 4
6090. 5

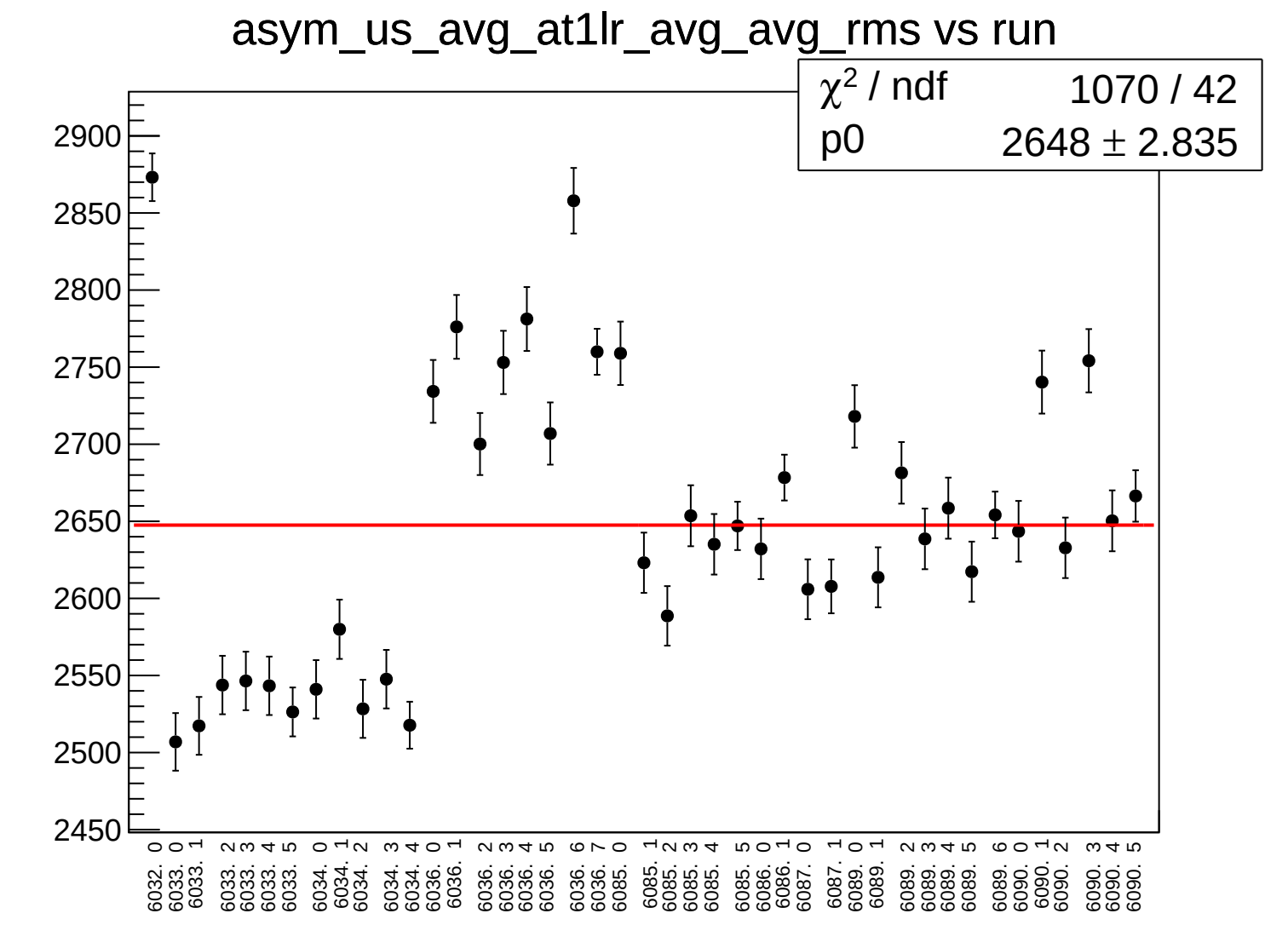

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.55 / 42
p0 −305.6 ± 2244
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −164.2
Std Dev 0
3
2
1
0
−1
−2

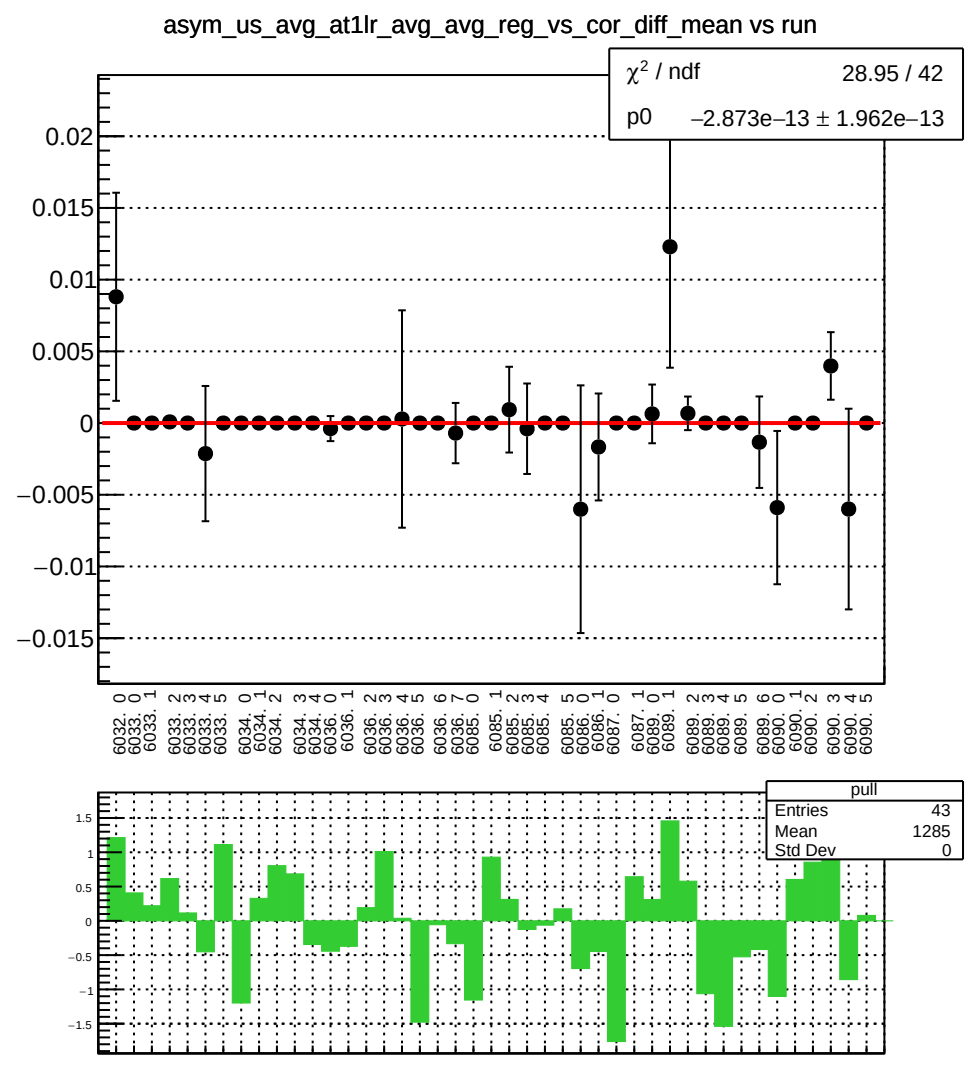

pull1D
Entries 43
Mean −0.01275
Std Dev 0.9829
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

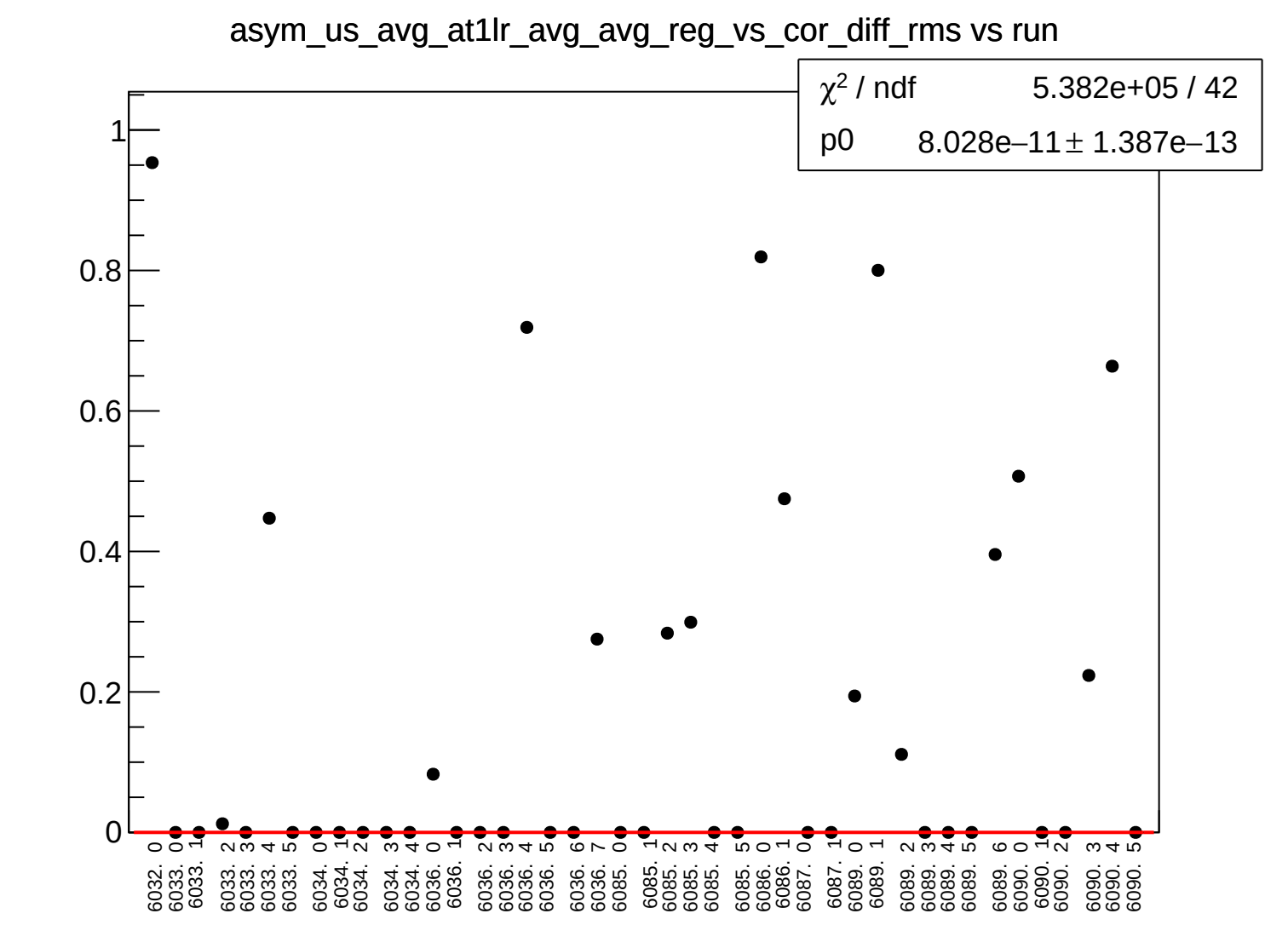

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5611 / 42
p0 1478 ± 1.587
1800
1700
1600
1500
1400
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

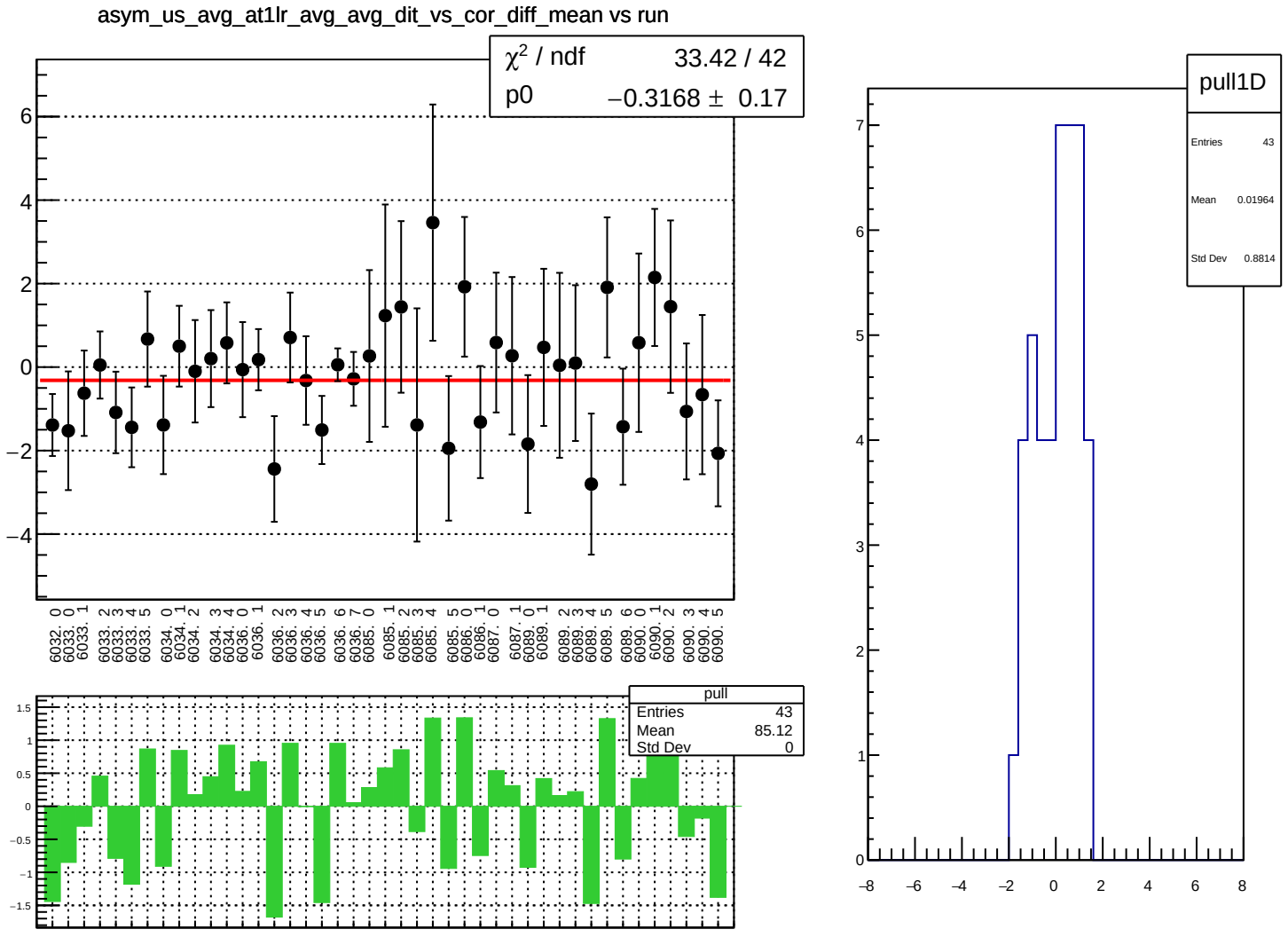

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.8 / 42
p0 −6698 ± 4009
×10³
pull
Entries 43
Mean 306.8
Std Dev 0

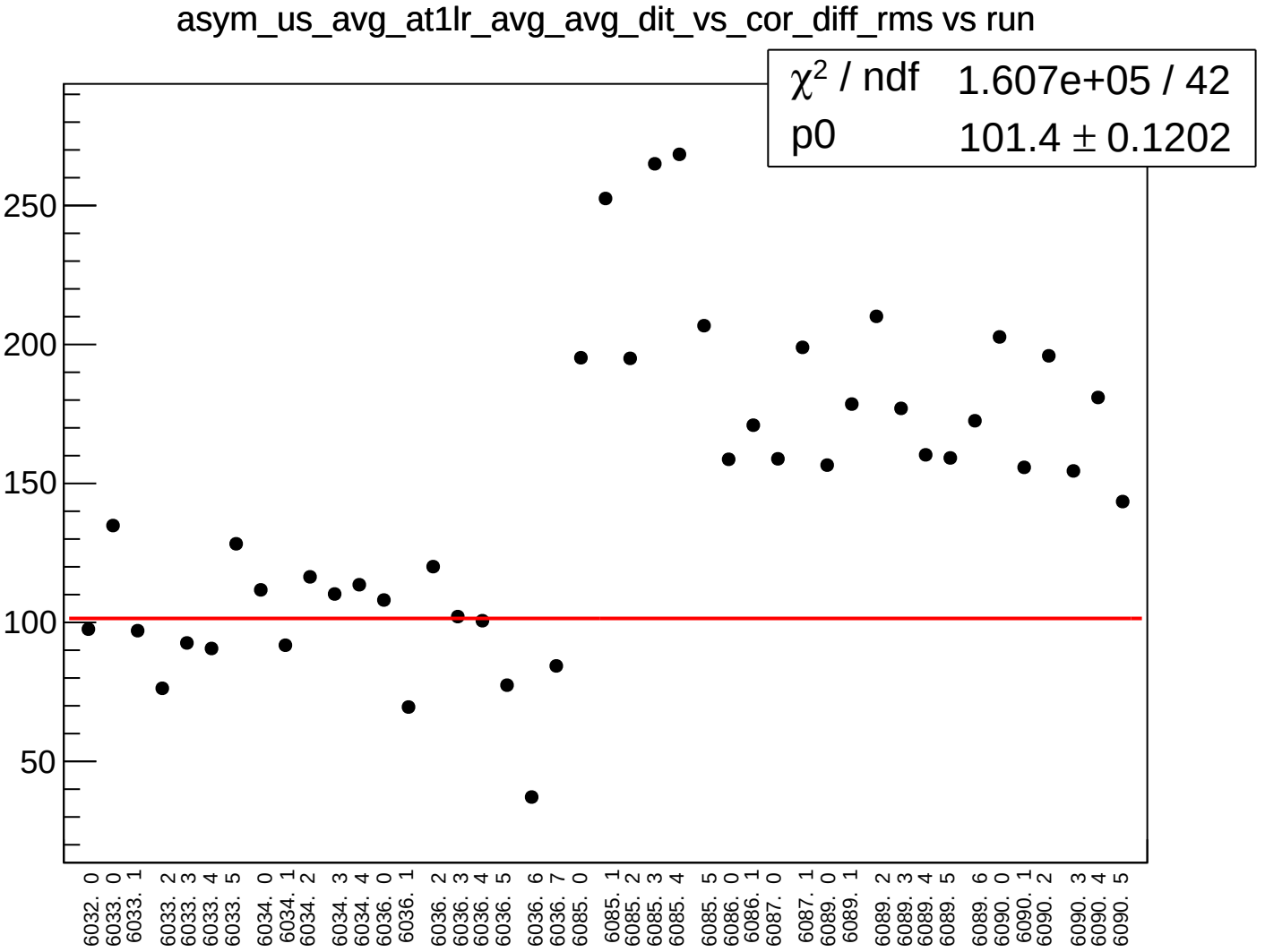

pull1D
Entries 43
Mean 0.006095
Std Dev 0.8733

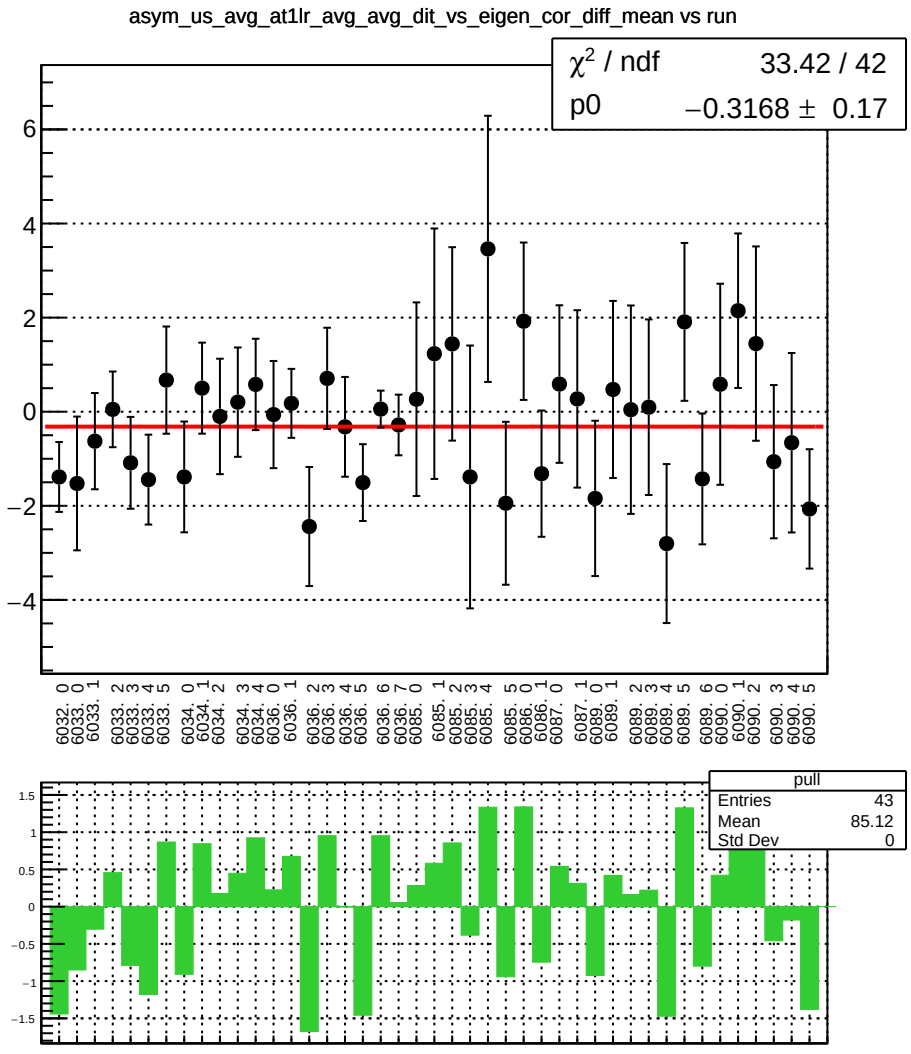

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1070 / 42
p0 2648 ± 2.835
2900
2850
2800
2750
2700
2650
2600
2550
2500
2450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

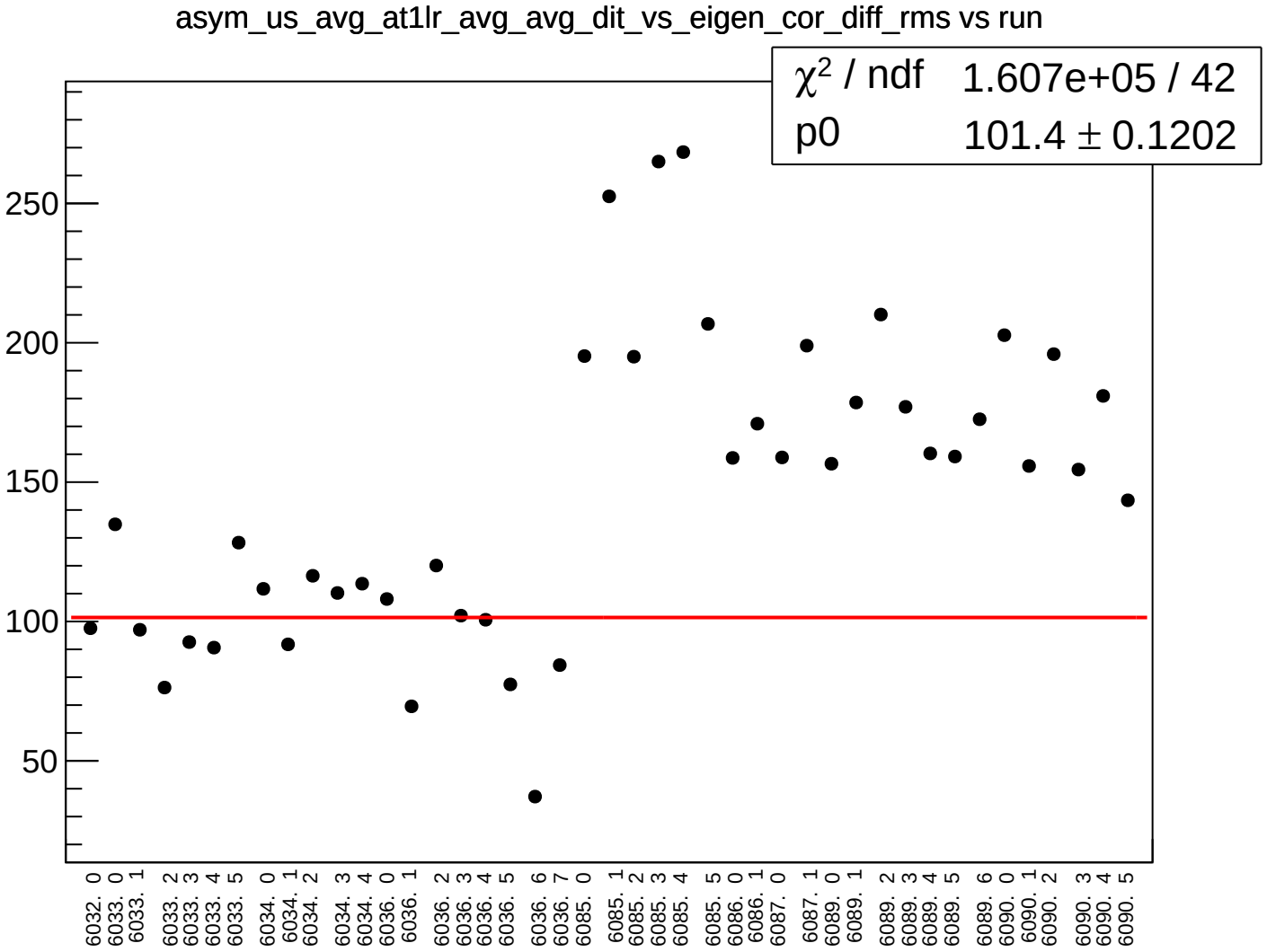

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.95 / 42
p0 −2.873e−13 ± 1.962e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1285
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.001197
Std Dev 0.8205
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

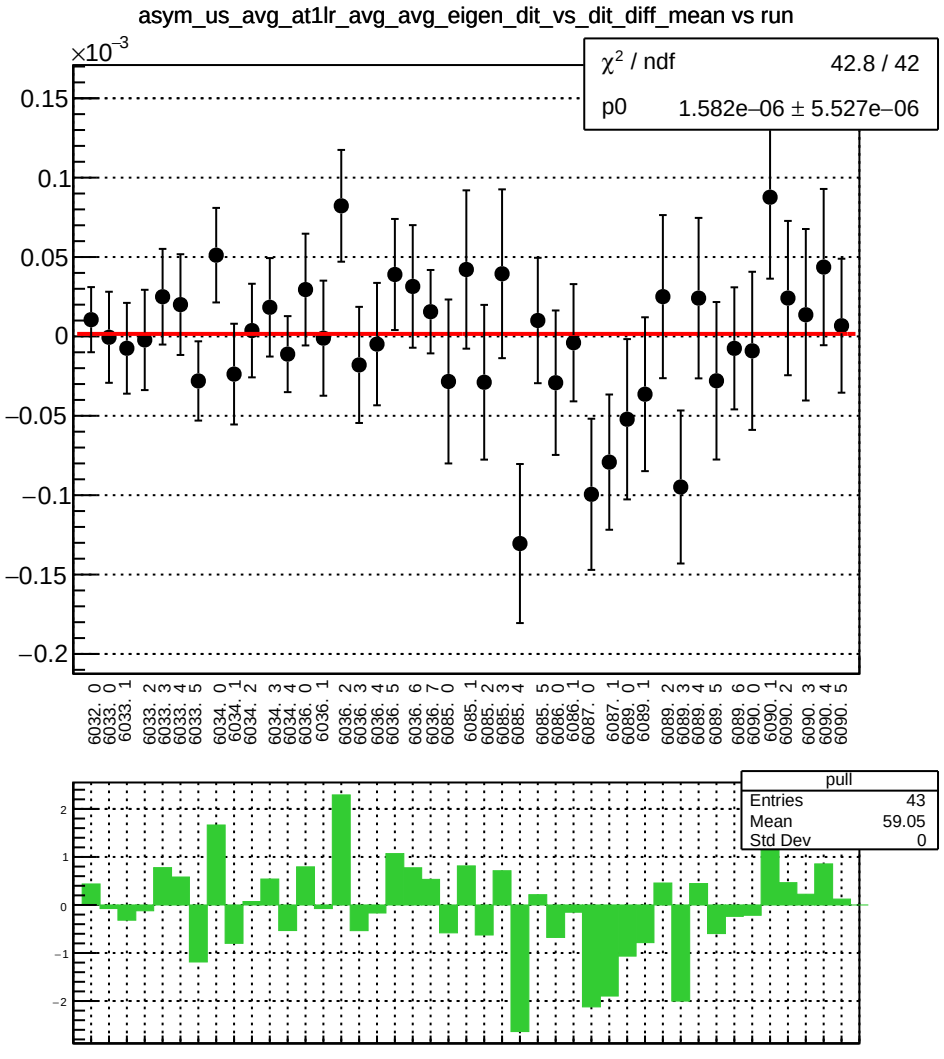

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.382e+05 / 42
p0 8.028e−11 ± 1.387e−13
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

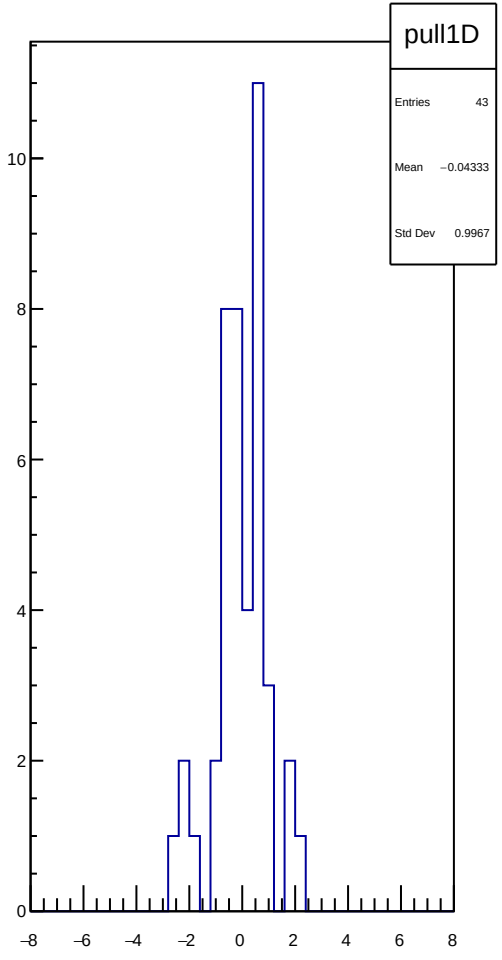

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.42 / 42
p0 −0.3168 ± 0.17
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 85.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01964
Std Dev 0.8814
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

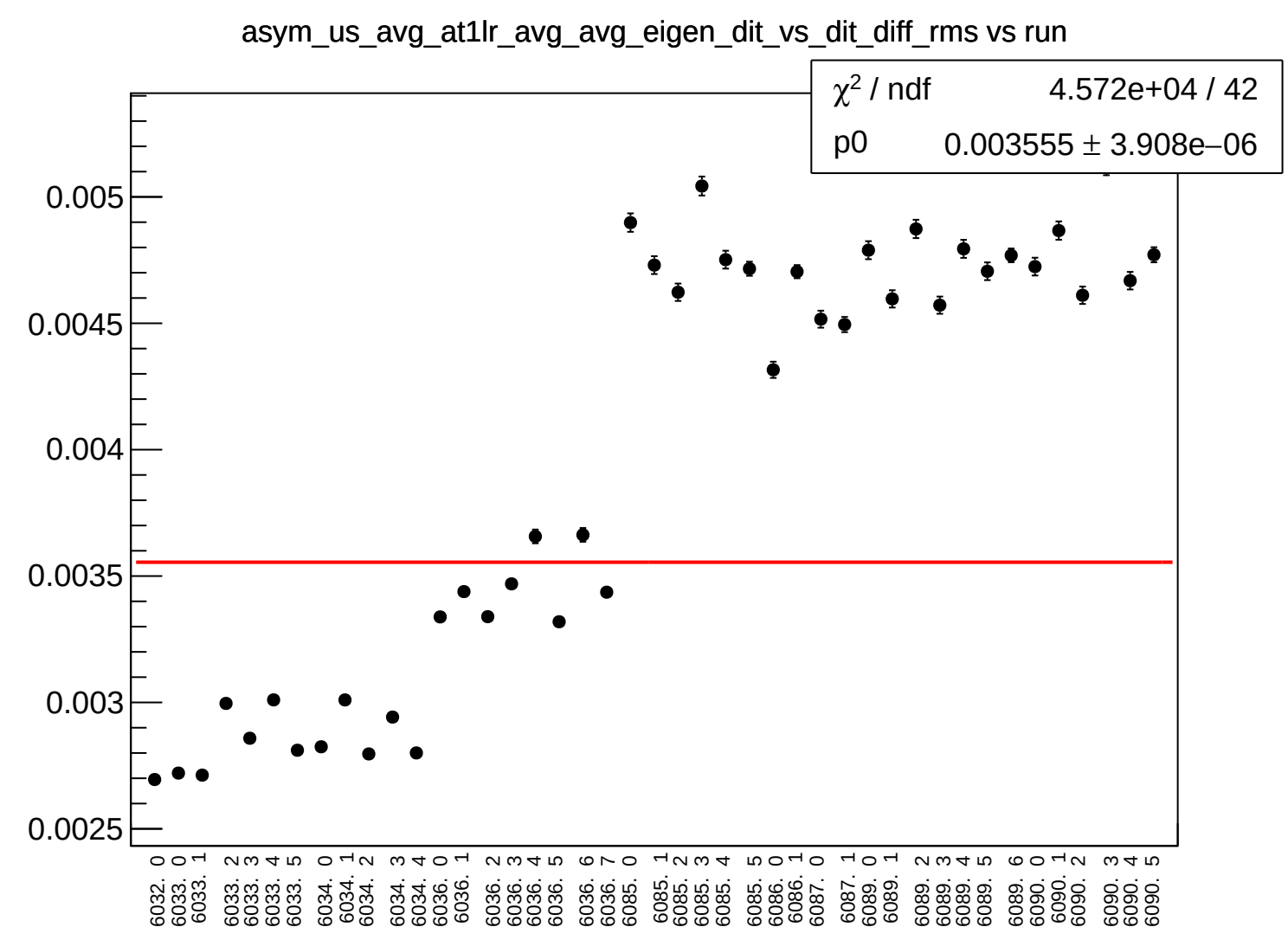

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.607e+05 / 42
p0 101.4 ± 0.1202
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

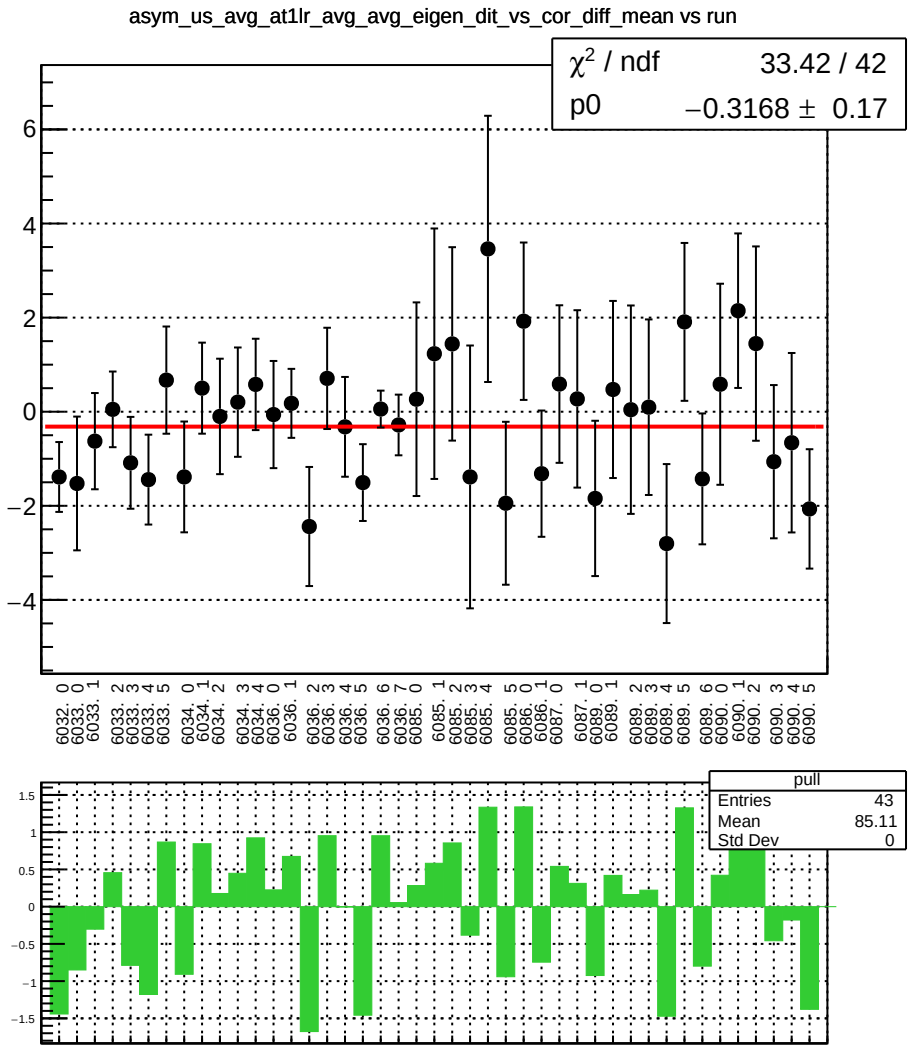

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.42 / 42
p0 −0.3168 ± 0.17
pull
Entries 43
Mean 85.12
Std Dev 0
pull1D
Entries 43
Mean 0.01964
Std Dev 0.8814

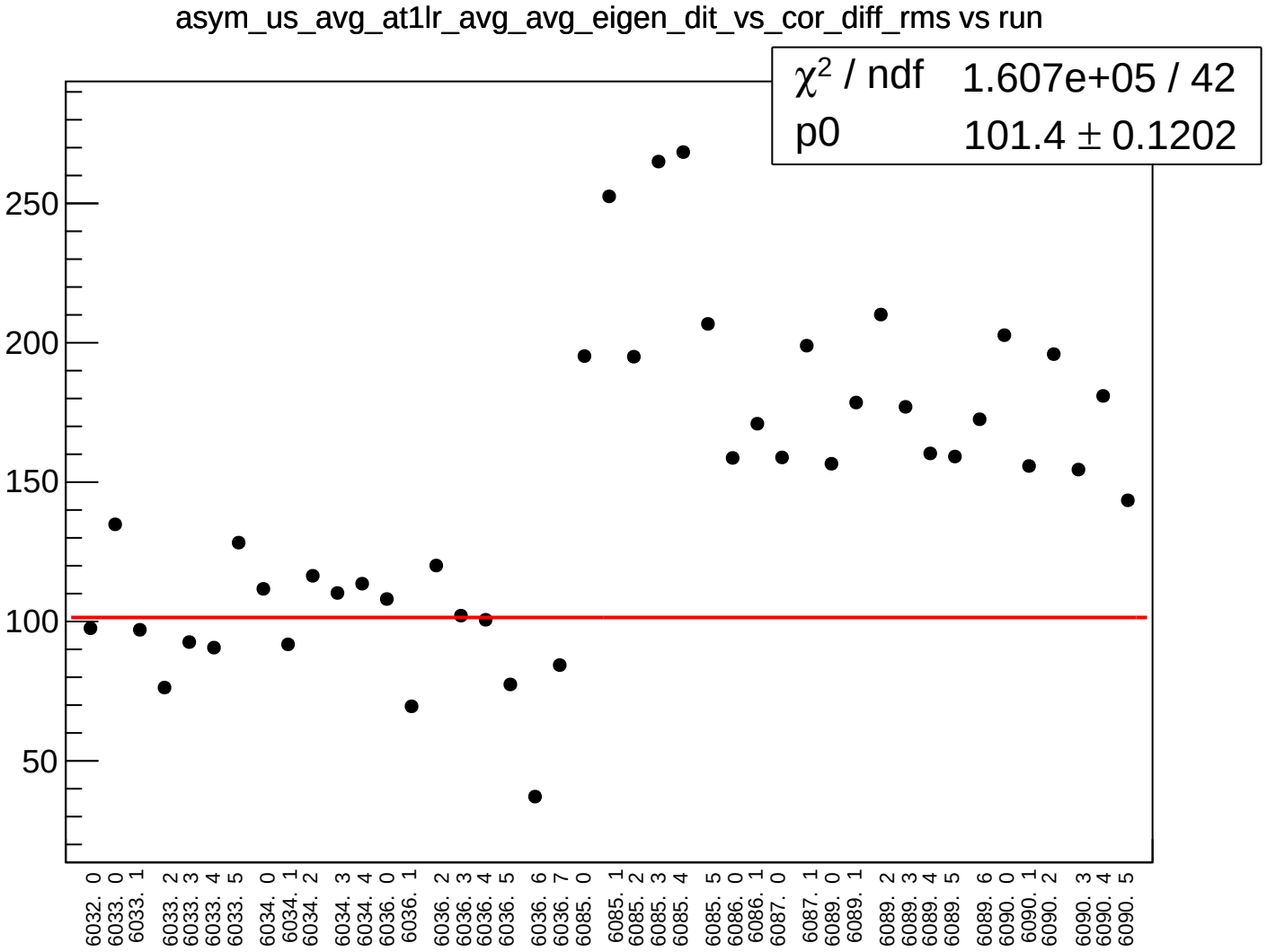

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.607e+05 / 42
p0 101.4 ± 0.1202
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.8 / 42
p0 1.582e−06 ± 5.527e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 59.05
Std Dev 0
2
1
0
−1
−2

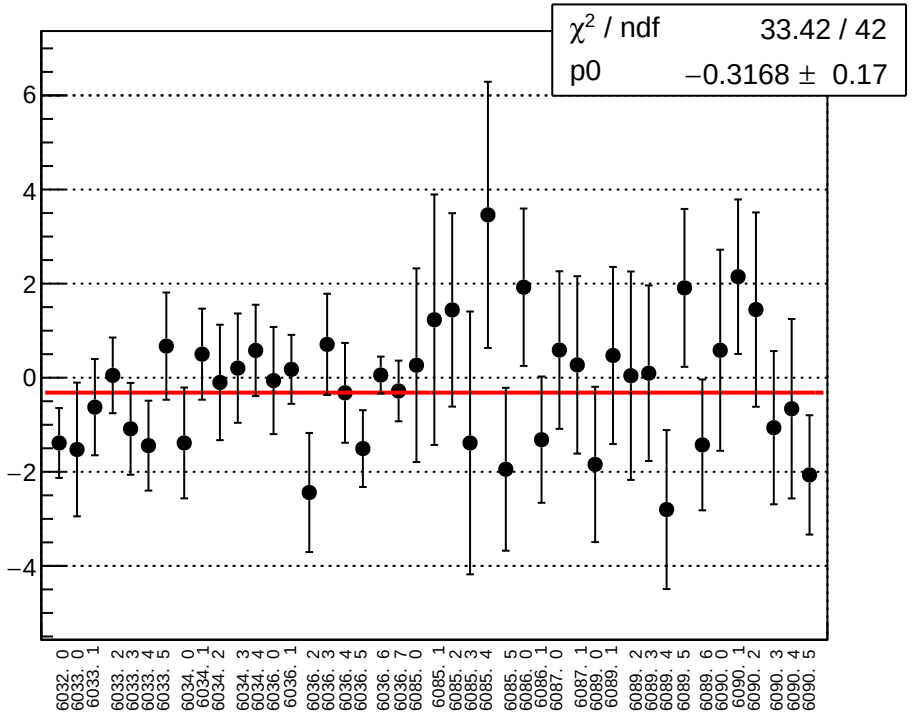

pull1D
Entries 43
Mean −0.04333
Std Dev 0.9967
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

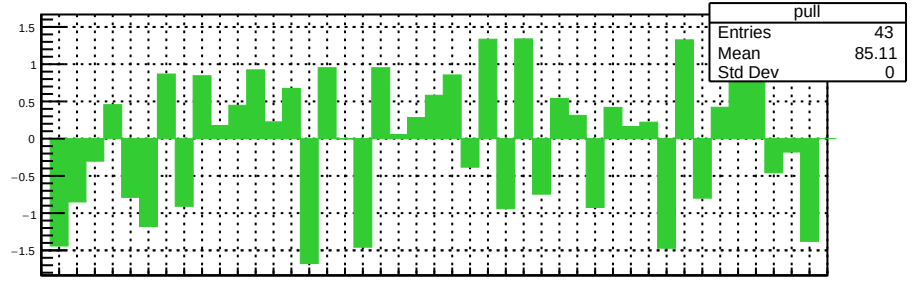

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.572e+04 / 42
p0 0.003555 ± 3.908e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

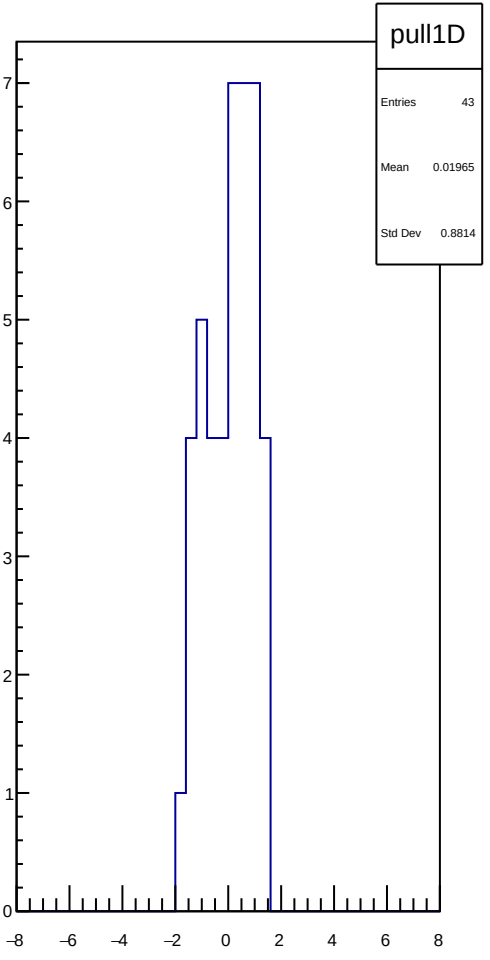

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.42 / 42
p0 −0.3168 ± 0.17
pull
Entries 43
Mean 85.11
Std Dev 0
pull1D
Entries 43
Mean 0.01965
Std Dev 0.8814

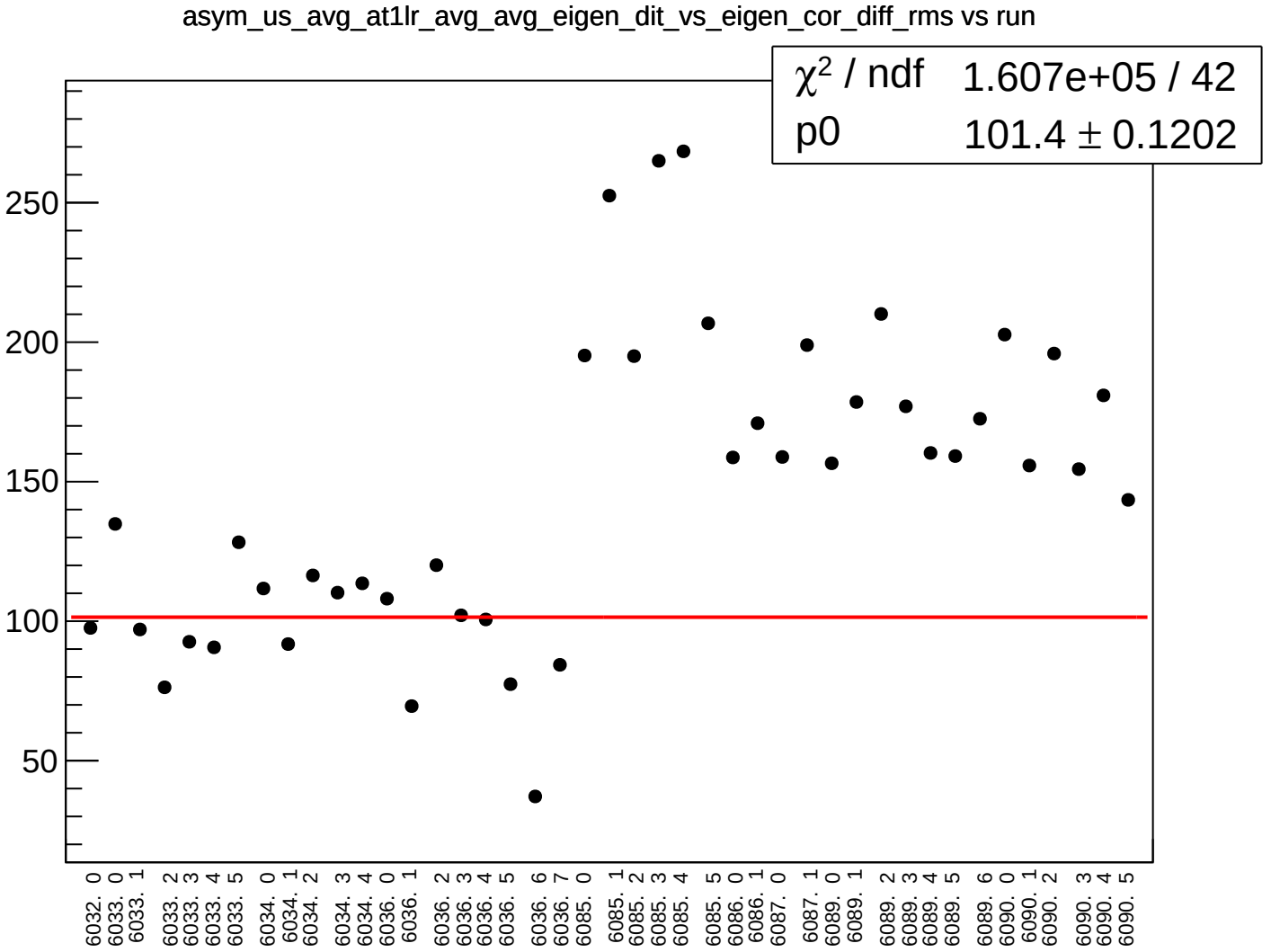

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.607e+05 / 42
p0 101.4 ± 0.1202
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

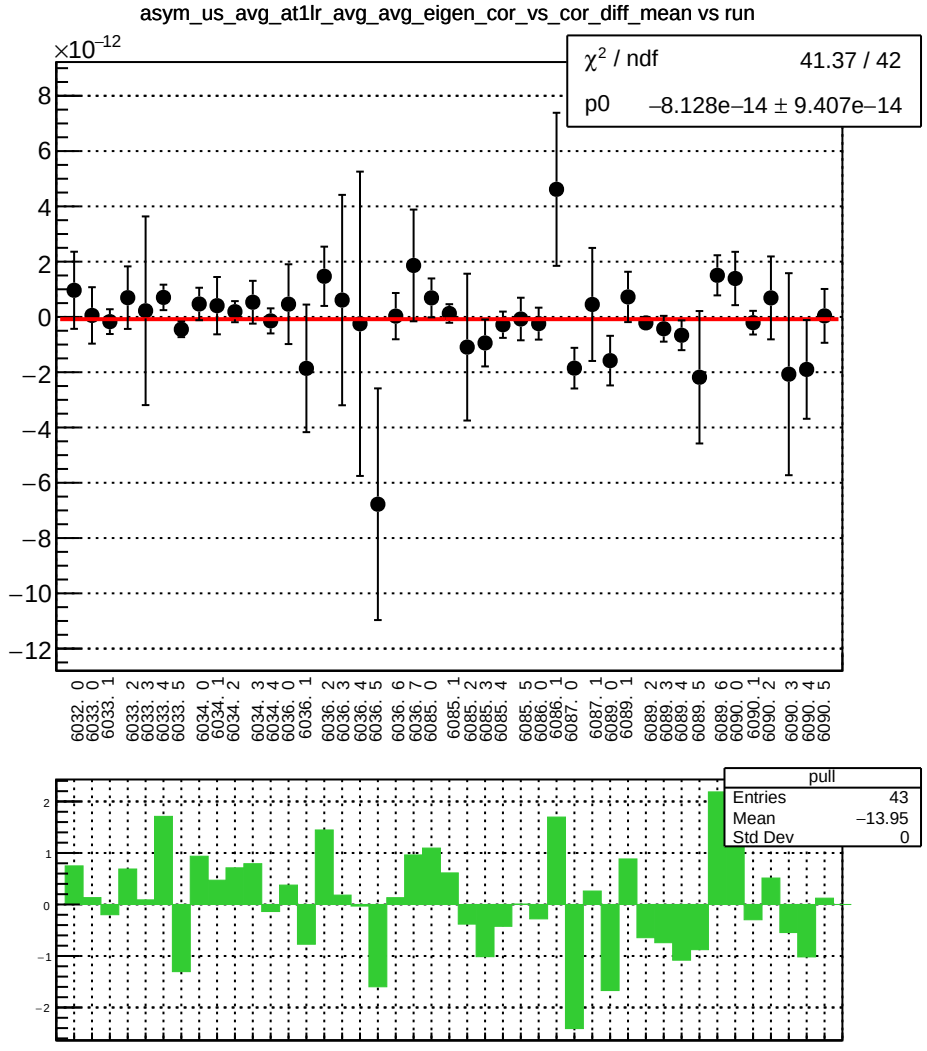
asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

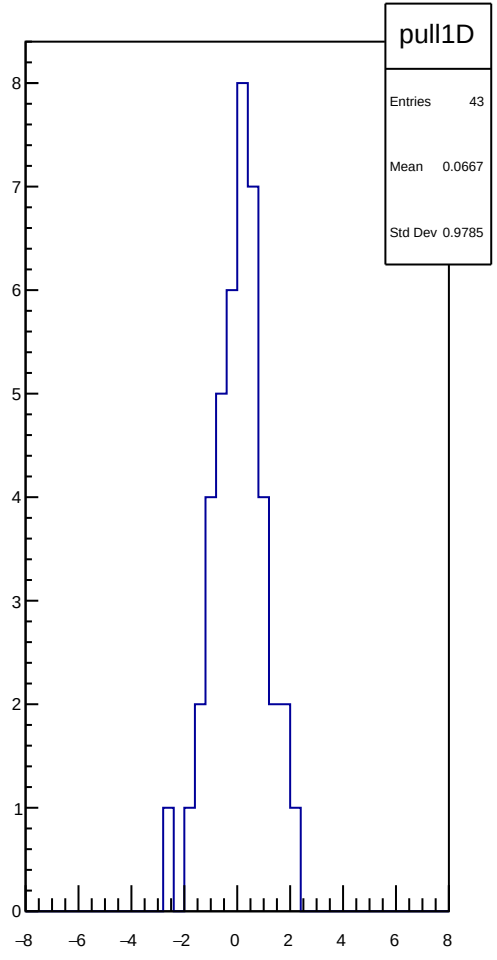


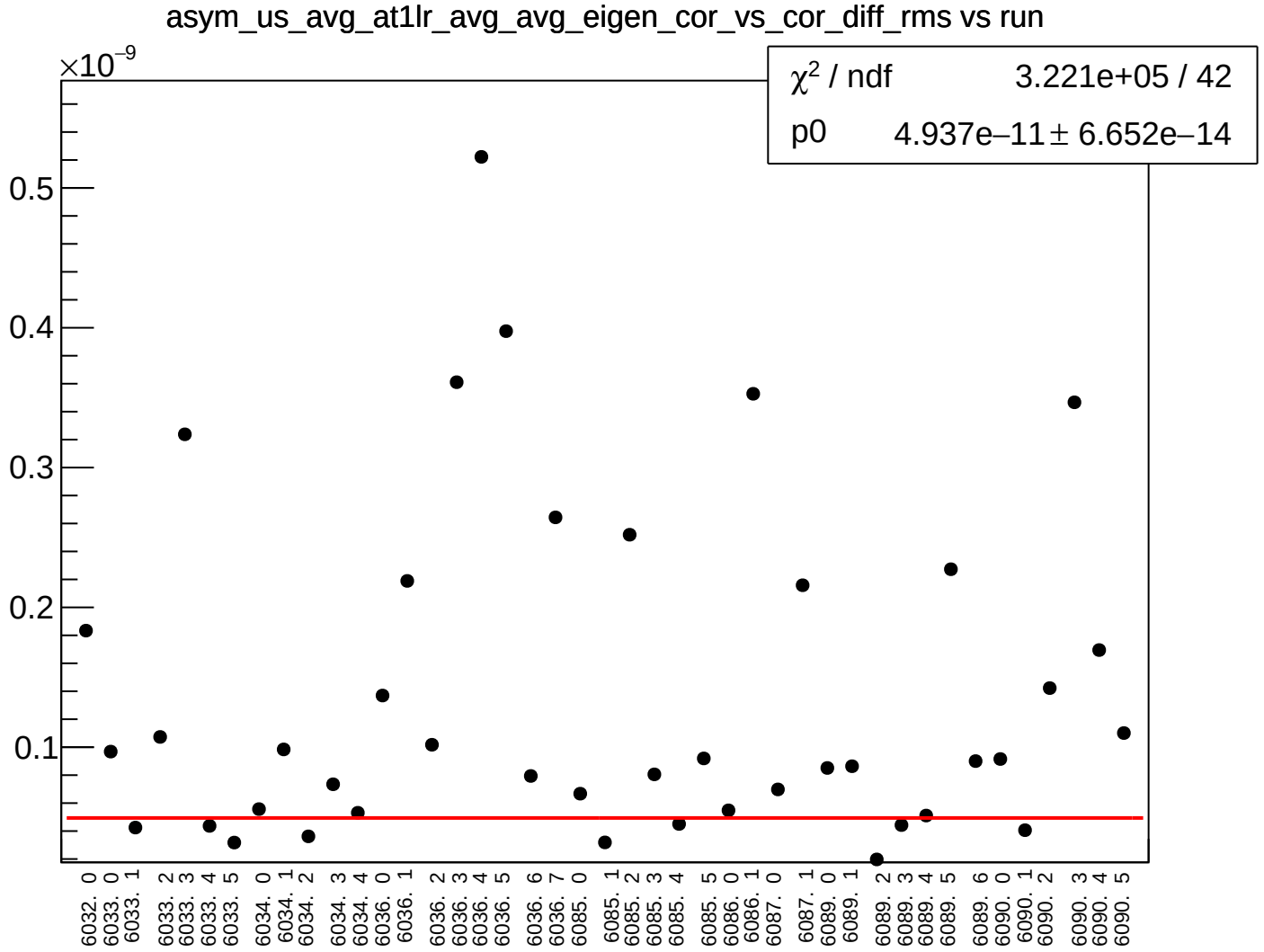


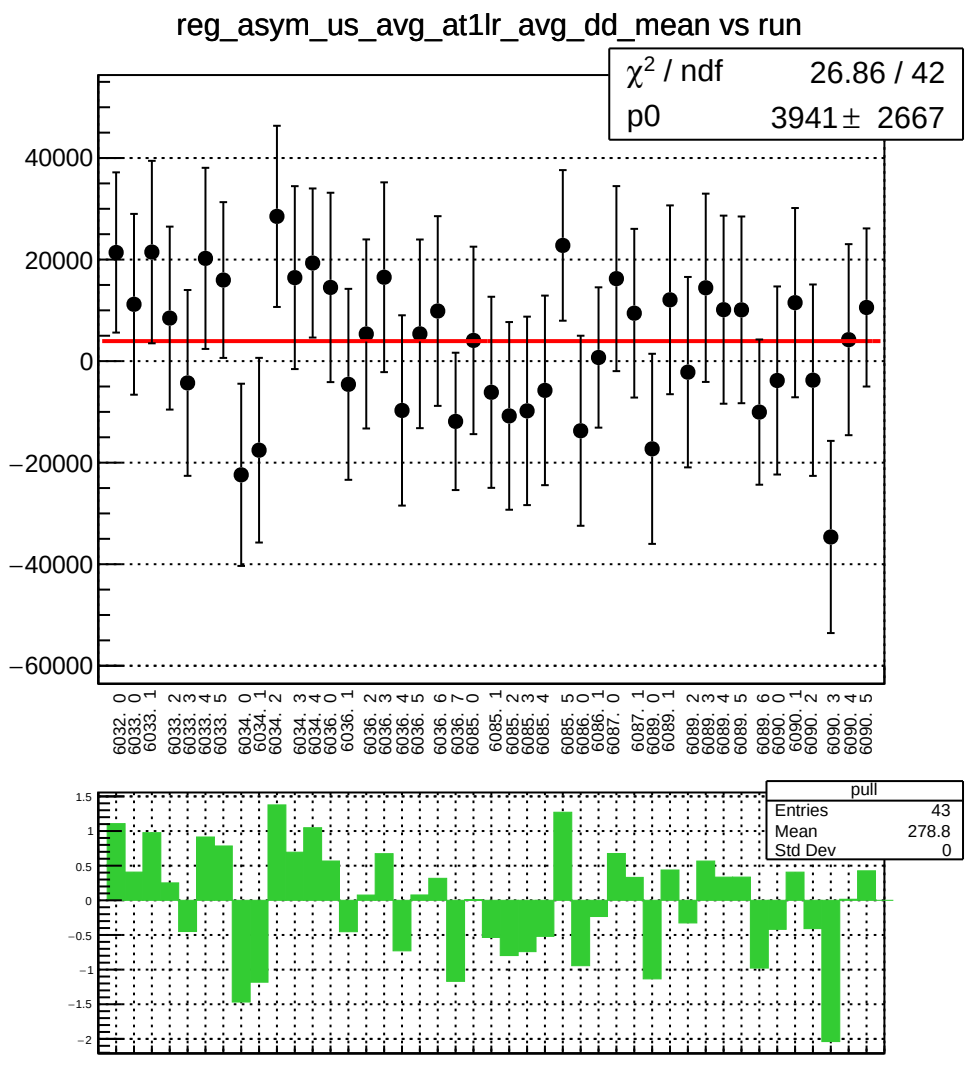


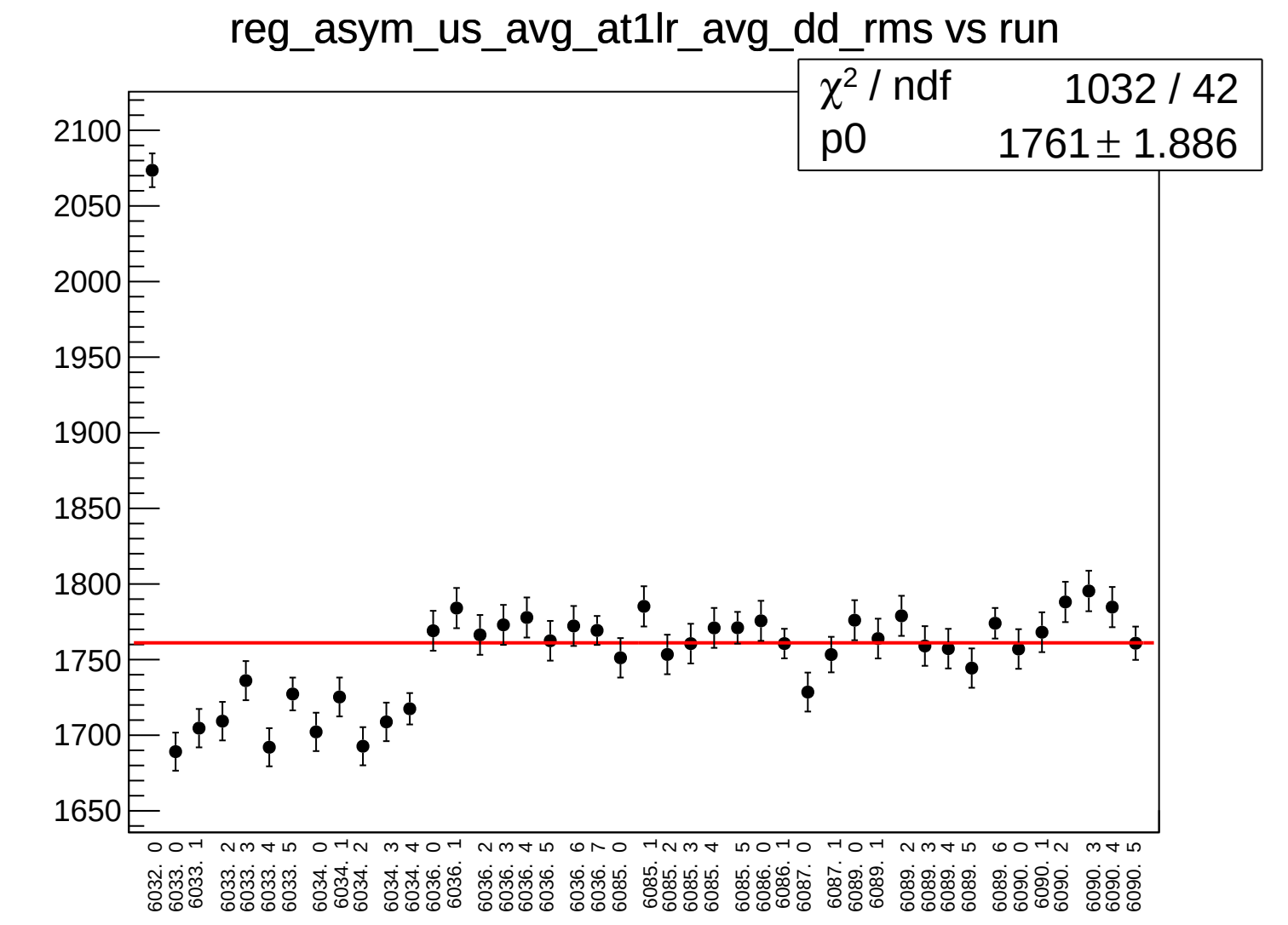

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.607e+05 / 42
p0 101.4 ± 0.1202
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

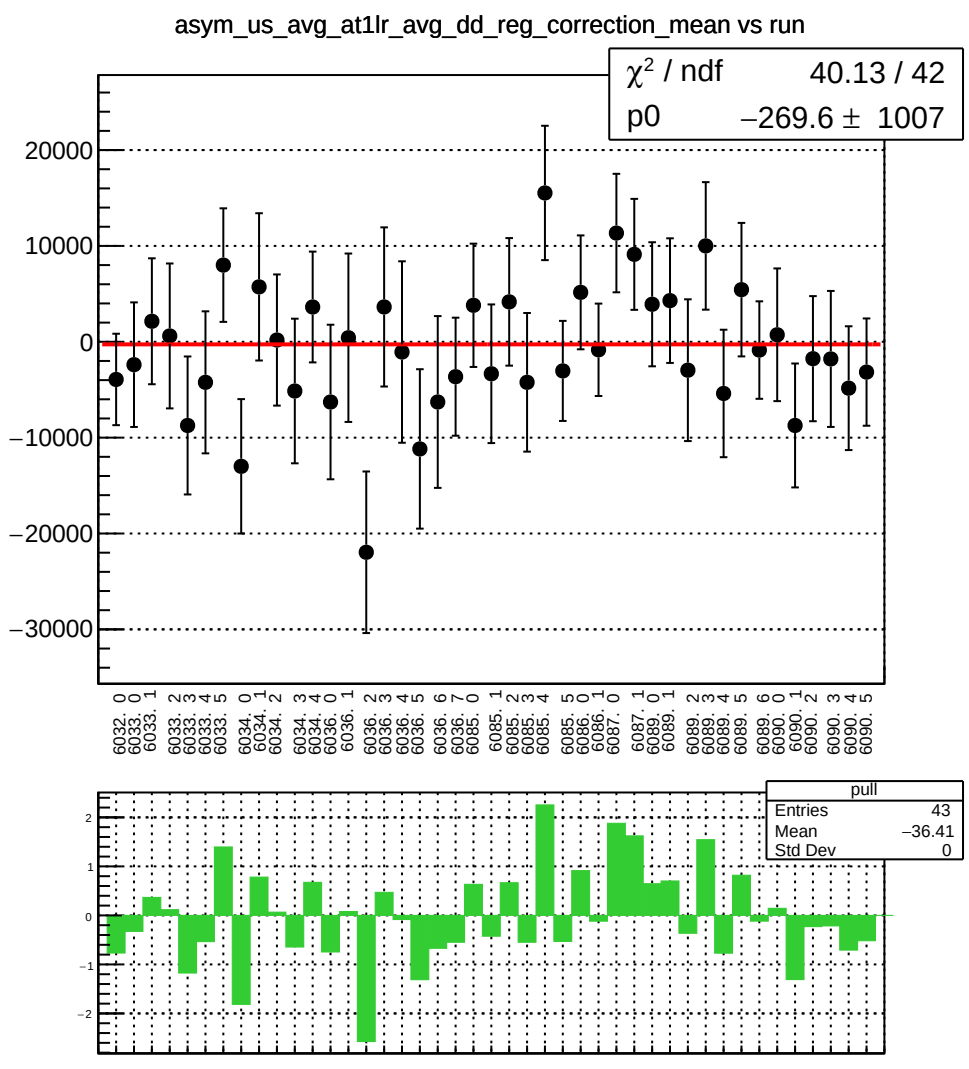

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 41.37 / 42
p0 −8.128e−14 ± 9.407e−14
pull
Entries 43
Mean −13.95
Std Dev 0

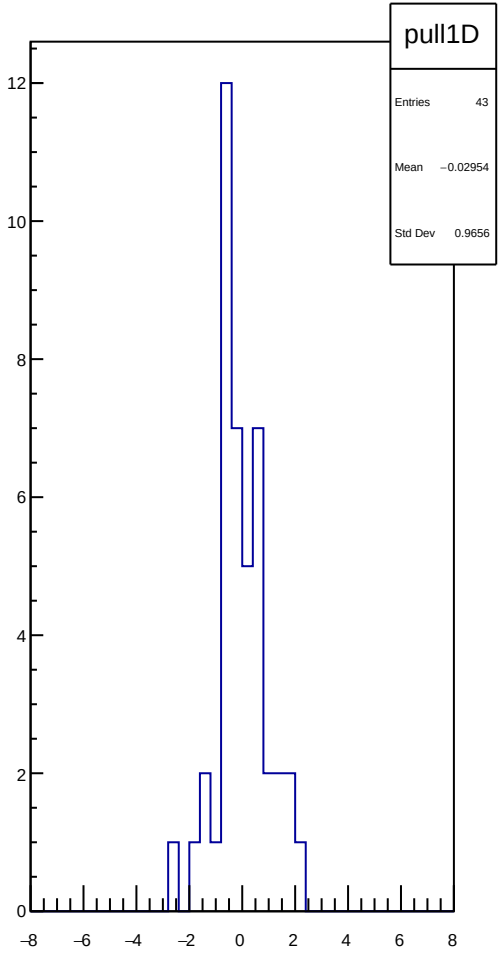

pull1D
Entries 43
Mean 0.0667
Std Dev 0.9785

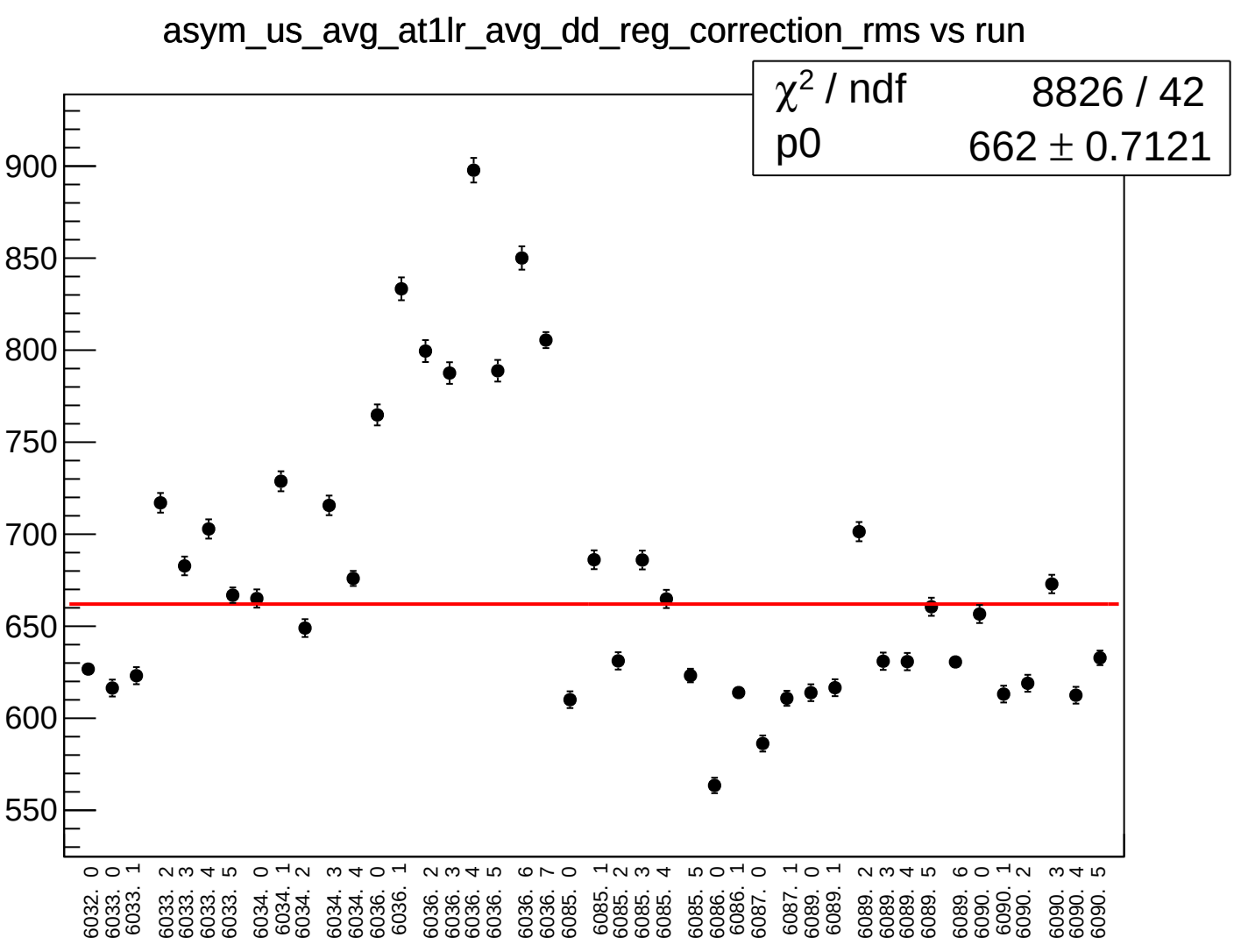

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.221e+05 / 42
p0 4.937e−11 ± 6.652e−14
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

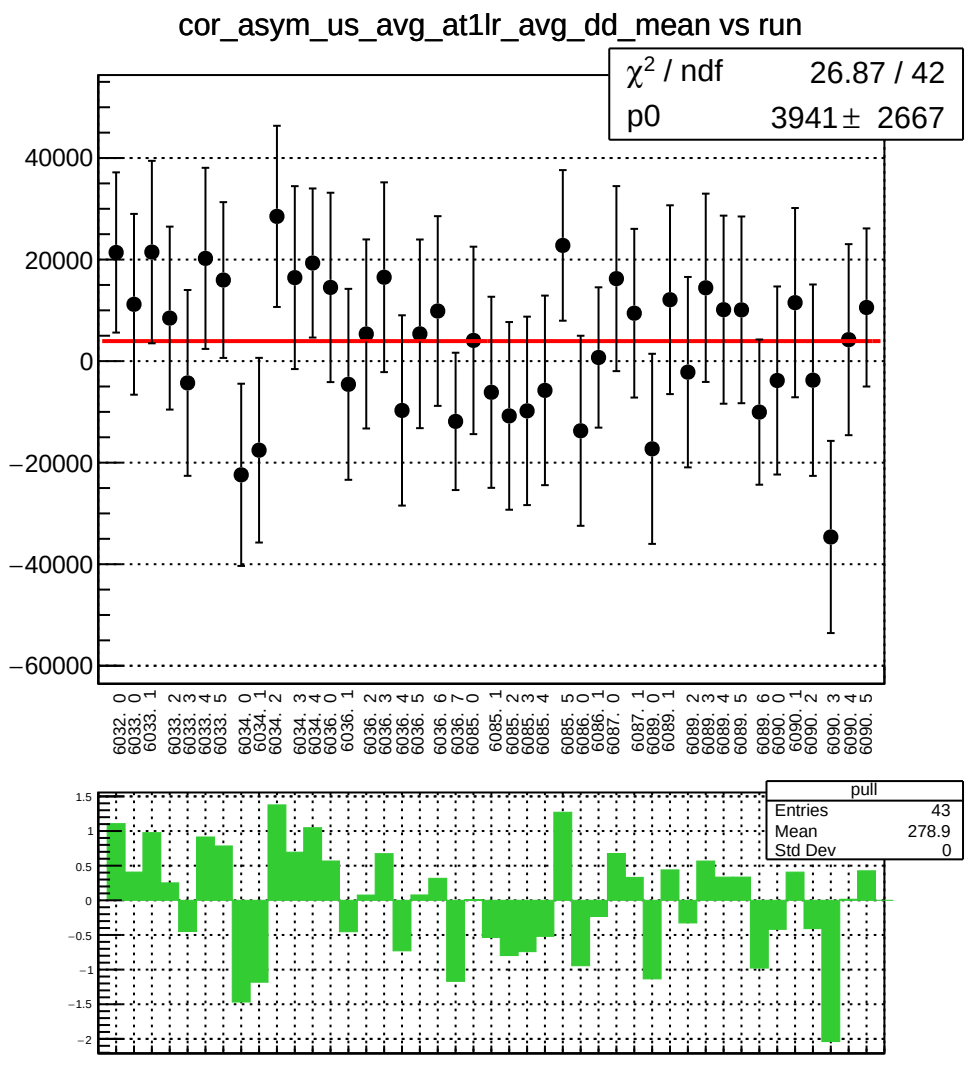

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 26.86 / 42
p0 3941 ± 2667
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 278.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01045
Std Dev 0.7903
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

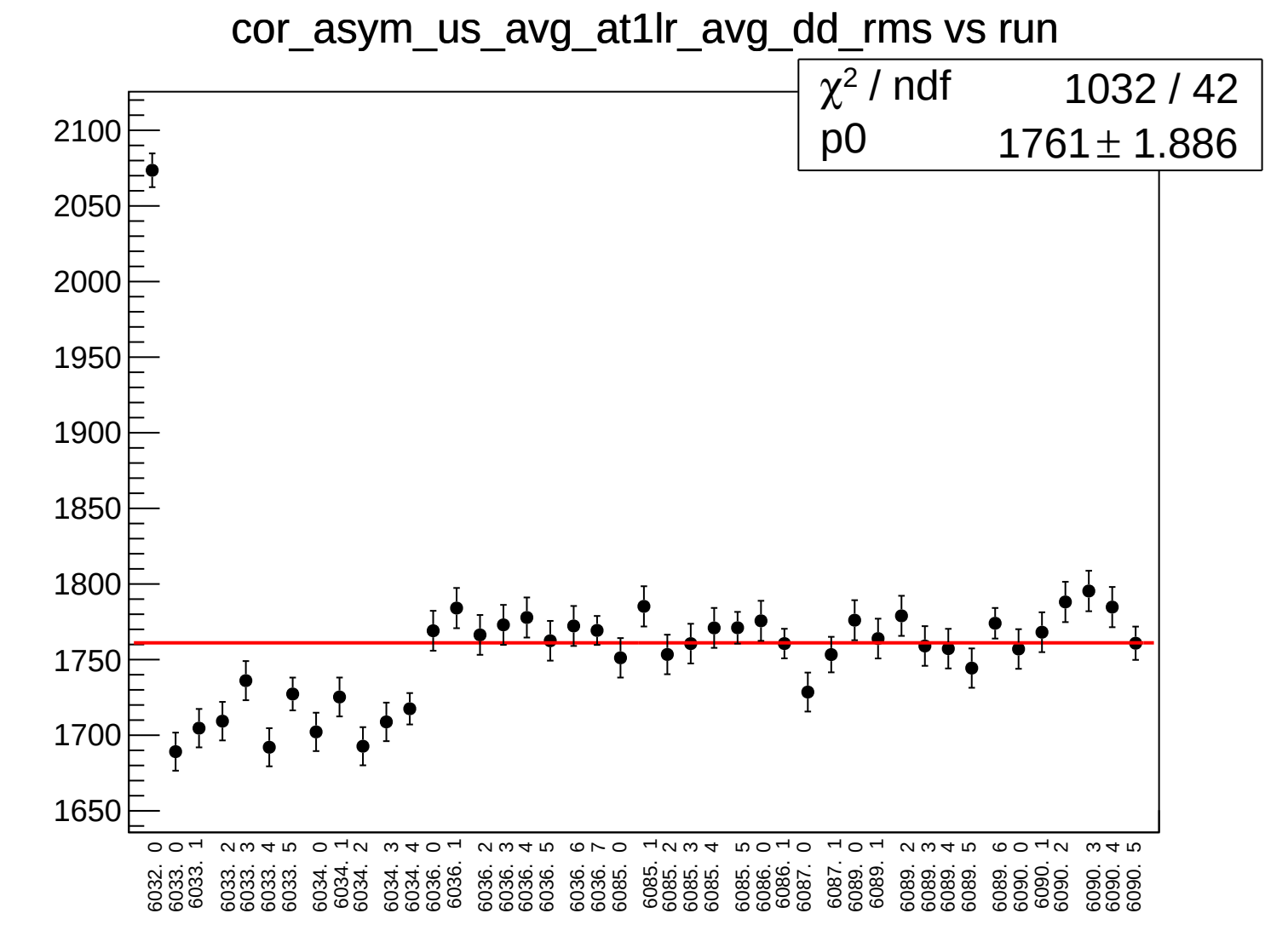

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1032 / 42
p0 1761 ± 1.886
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

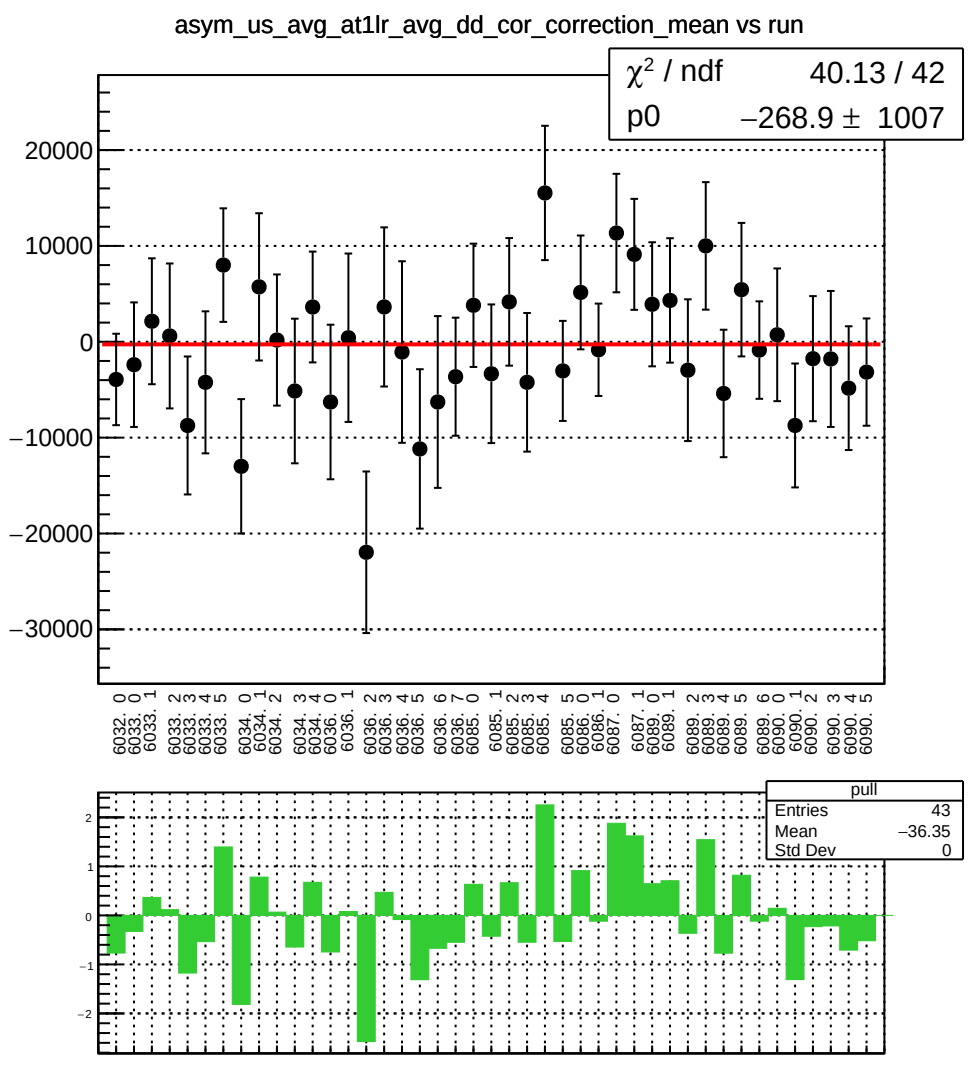

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 40.13 / 42
p0 −269.6 ± 1007
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.41
Std Dev 0
2
1
0
−1
−2

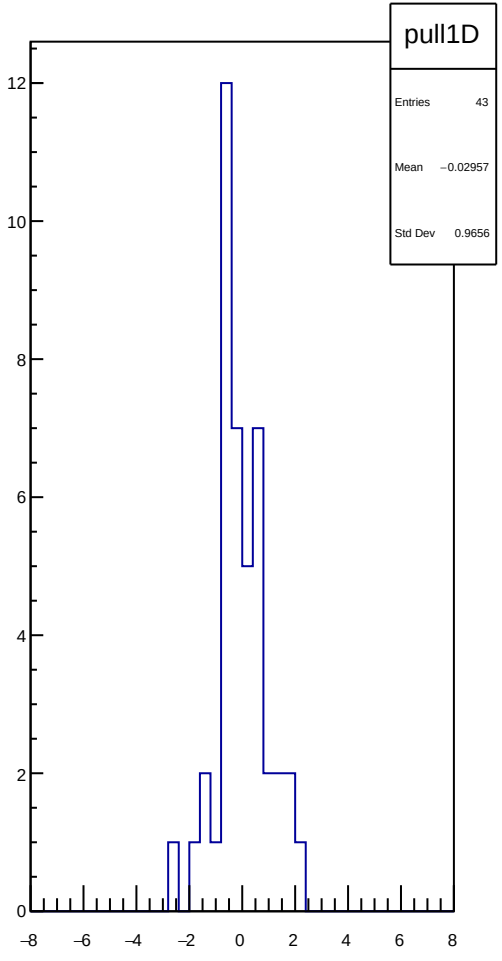

pull1D
Entries 43
Mean −0.02954
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

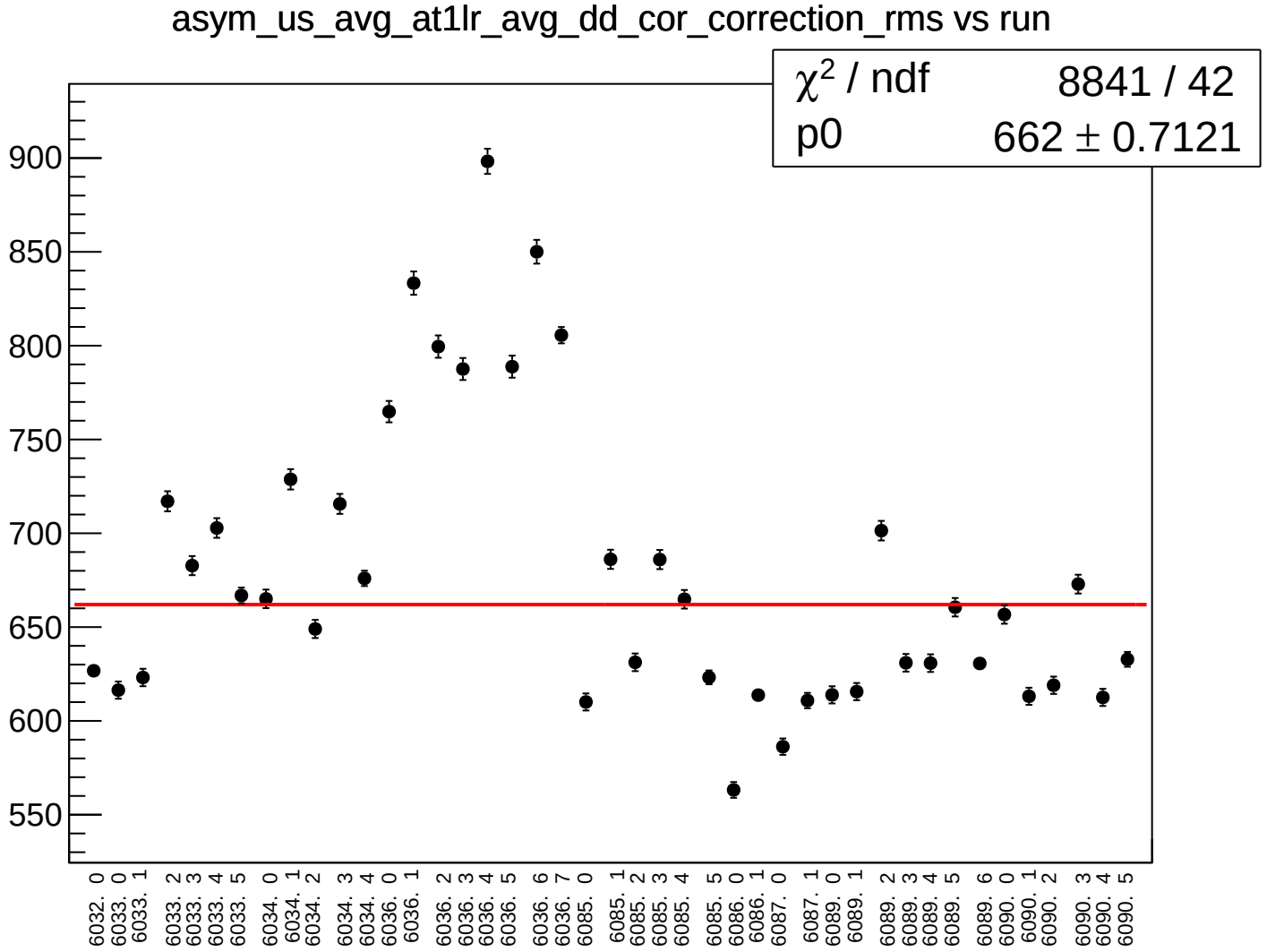

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8826 / 42
p0 662 ± 0.7121
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

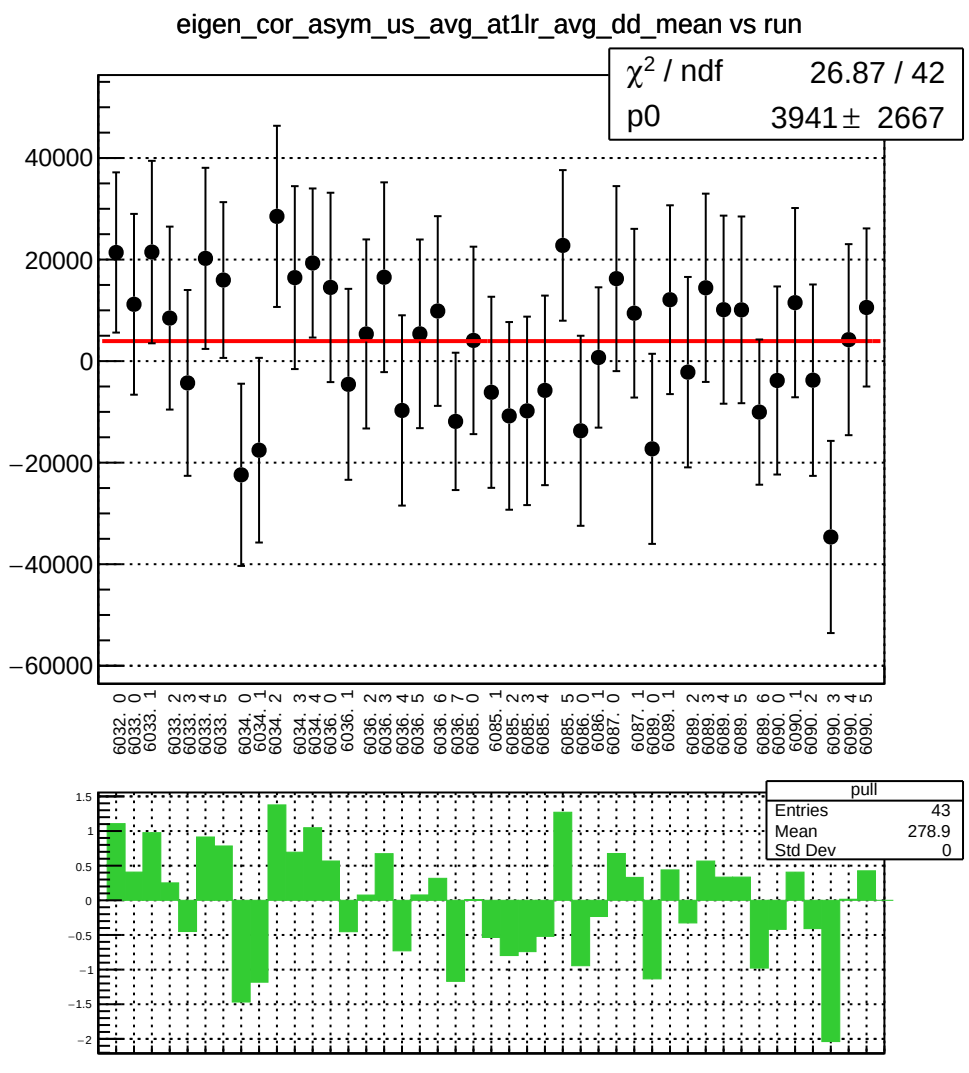

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 26.87 / 42
p0 3941 ± 2667
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 278.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01045
Std Dev 0.7904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

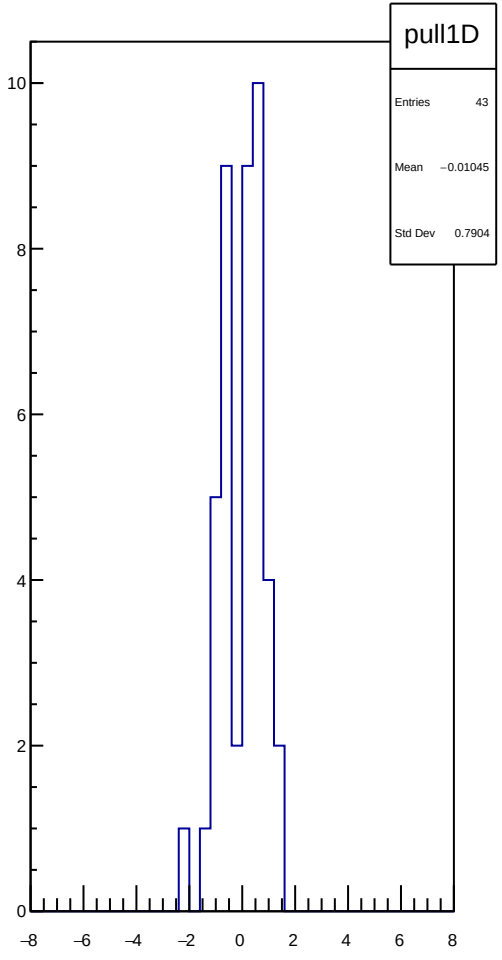

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1032 / 42
p0 1761 ± 1.886
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

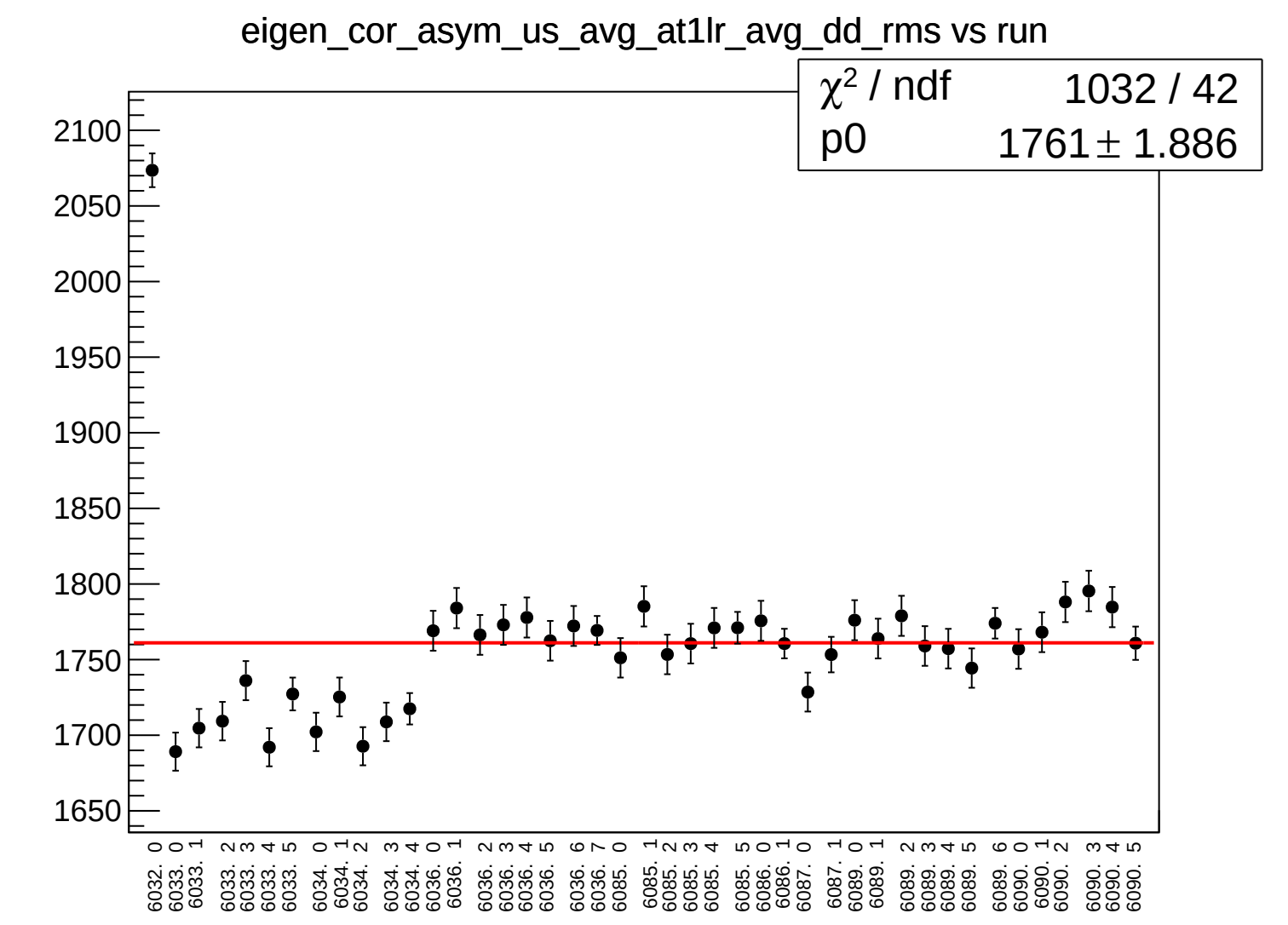

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 40.13 / 42
p0 −268.9 ± 1007
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.35
Std Dev 0
2
1
0
−1
−2

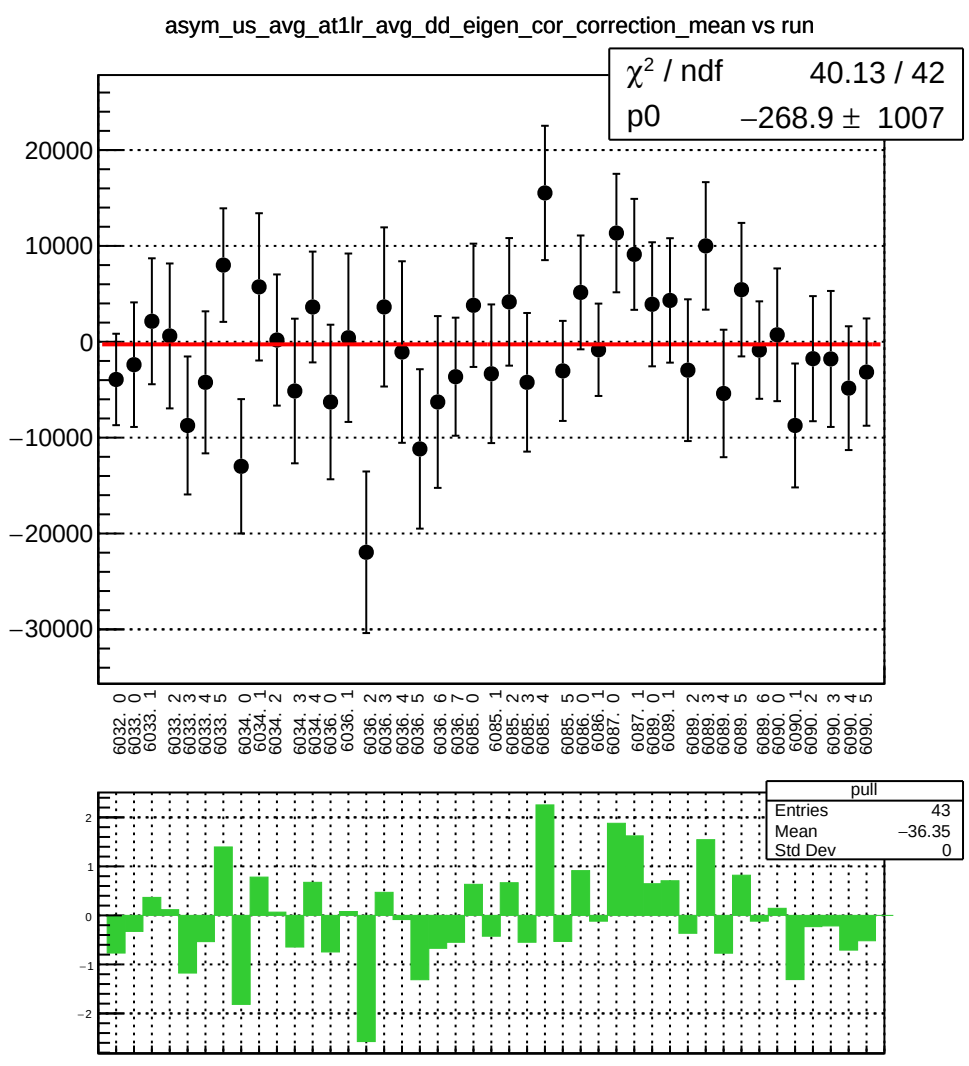

pull1D
Entries 43
Mean −0.02957
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

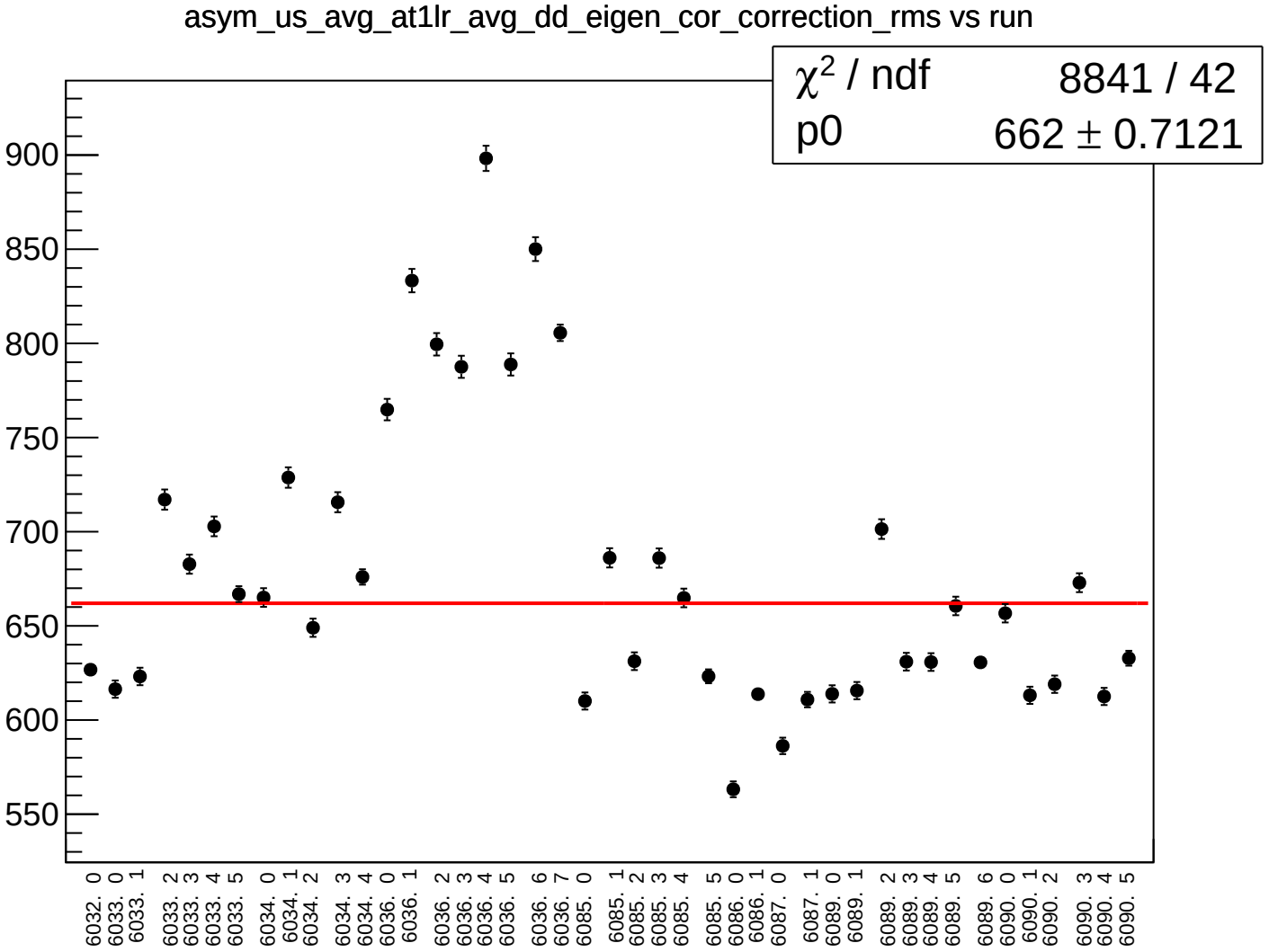

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8841 / 42
p0 662 ± 0.7121
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

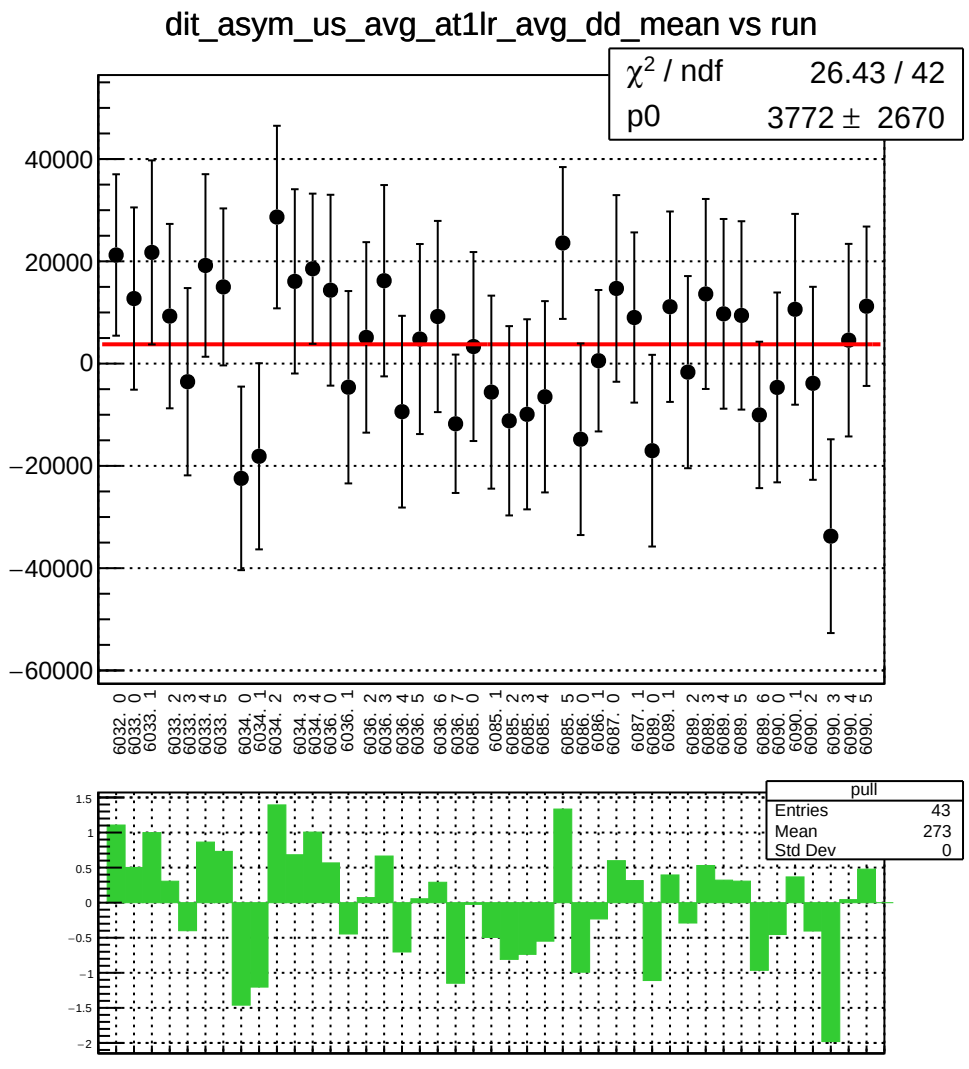

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 26.87 / 42
p0 3941 ± 2667
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 278.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

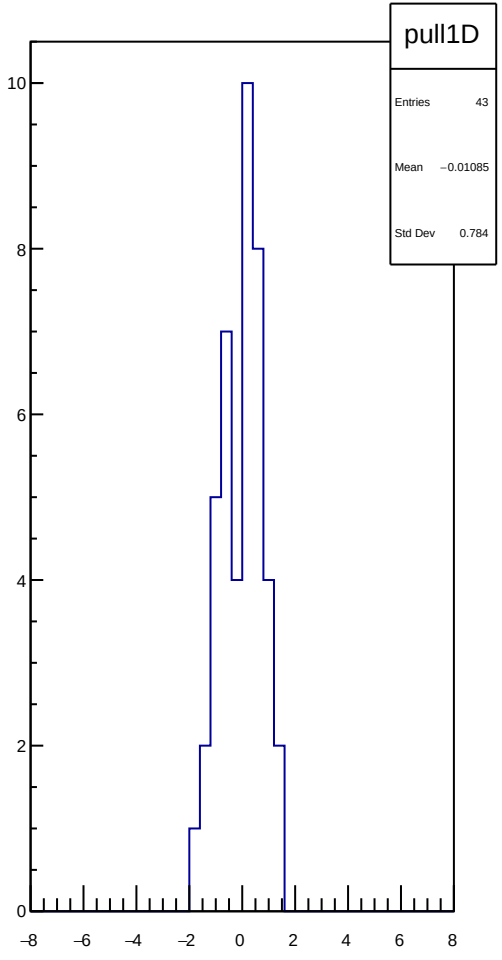

pull1D
Entries 43
Mean −0.01045
Std Dev 0.7904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

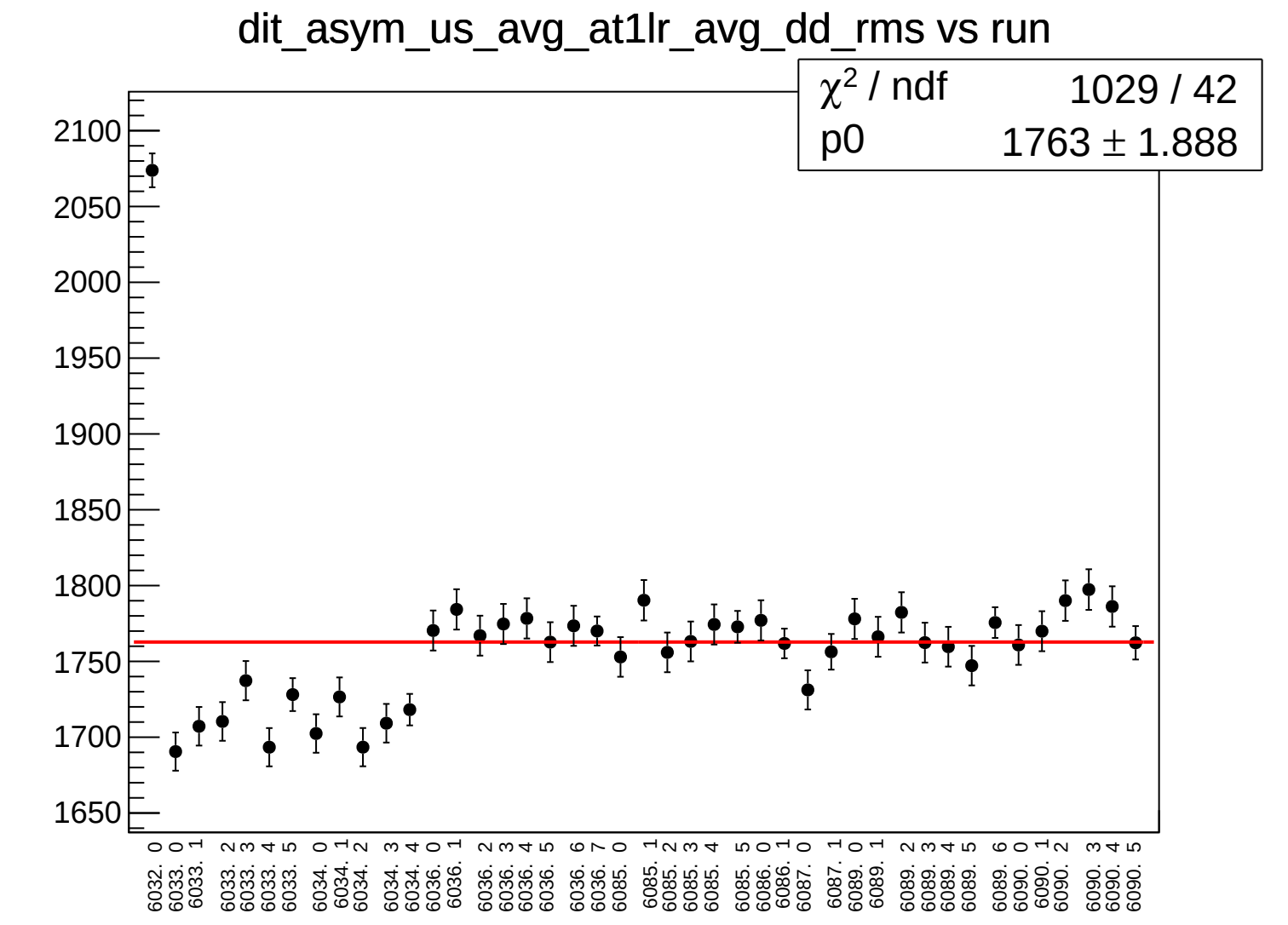

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1032 / 42
p0 1761 ± 1.886
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

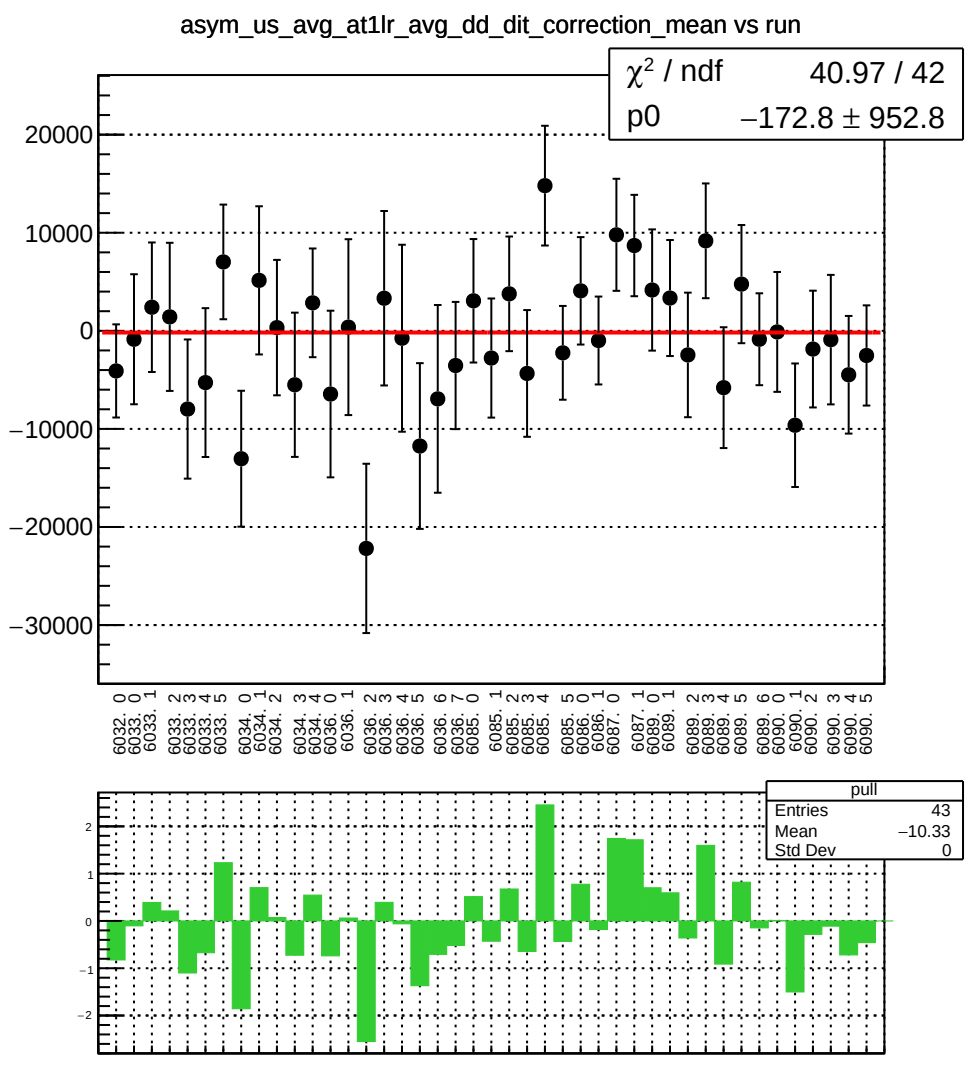

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.13 / 42
p0 −268.9 ± 1007
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02957
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

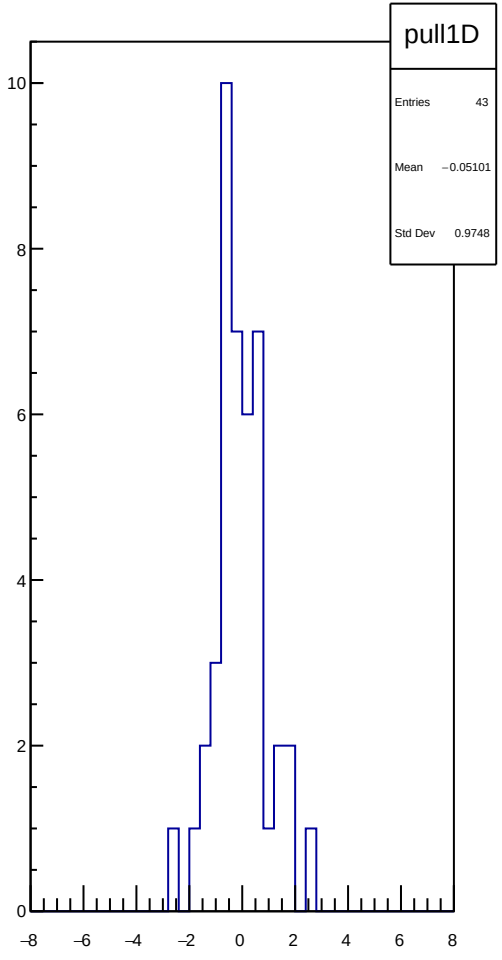

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8841 / 42
p0 662 ± 0.7121
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

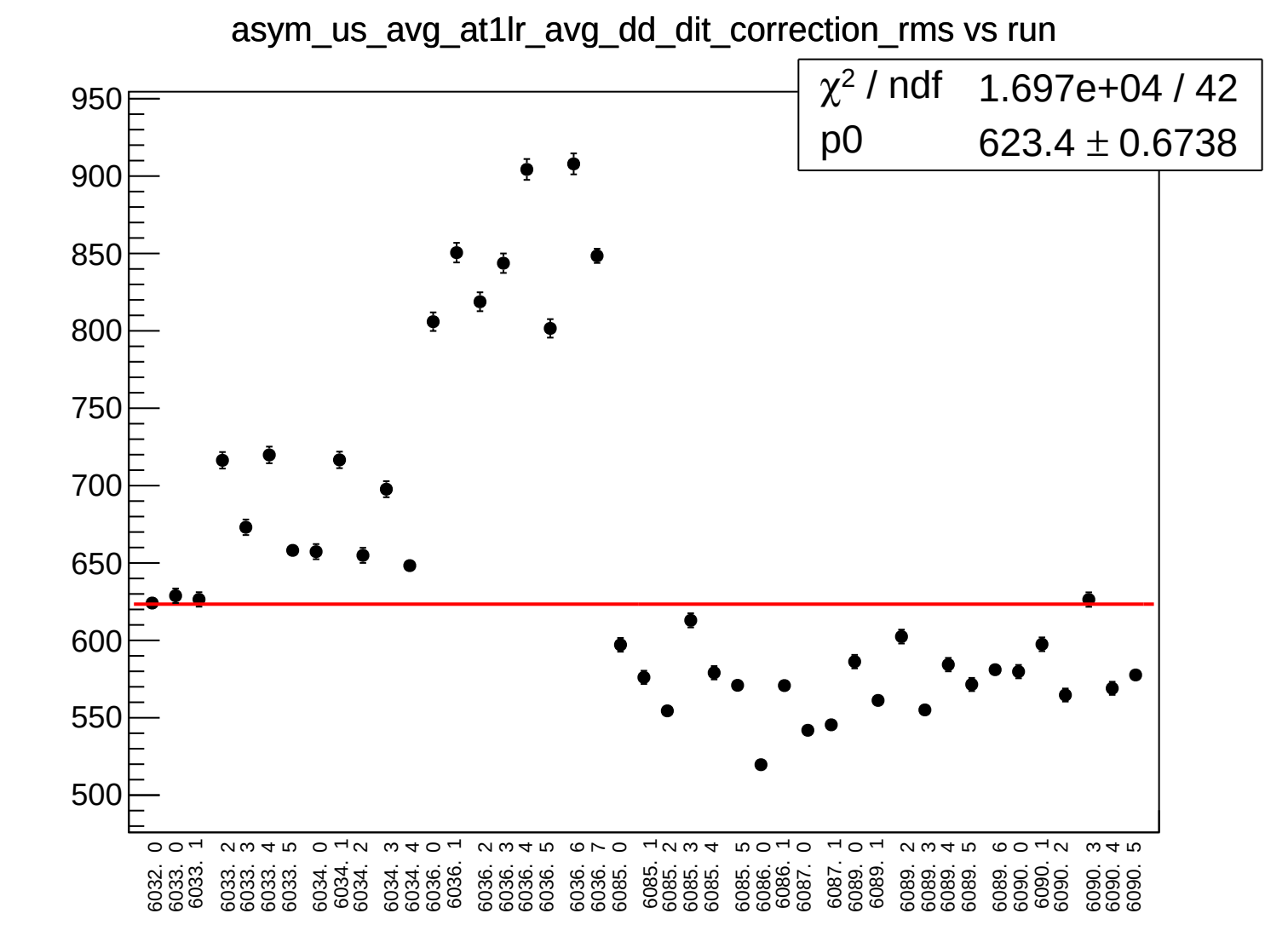

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 26.43 / 42
p0 3772 ± 2670
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 273
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

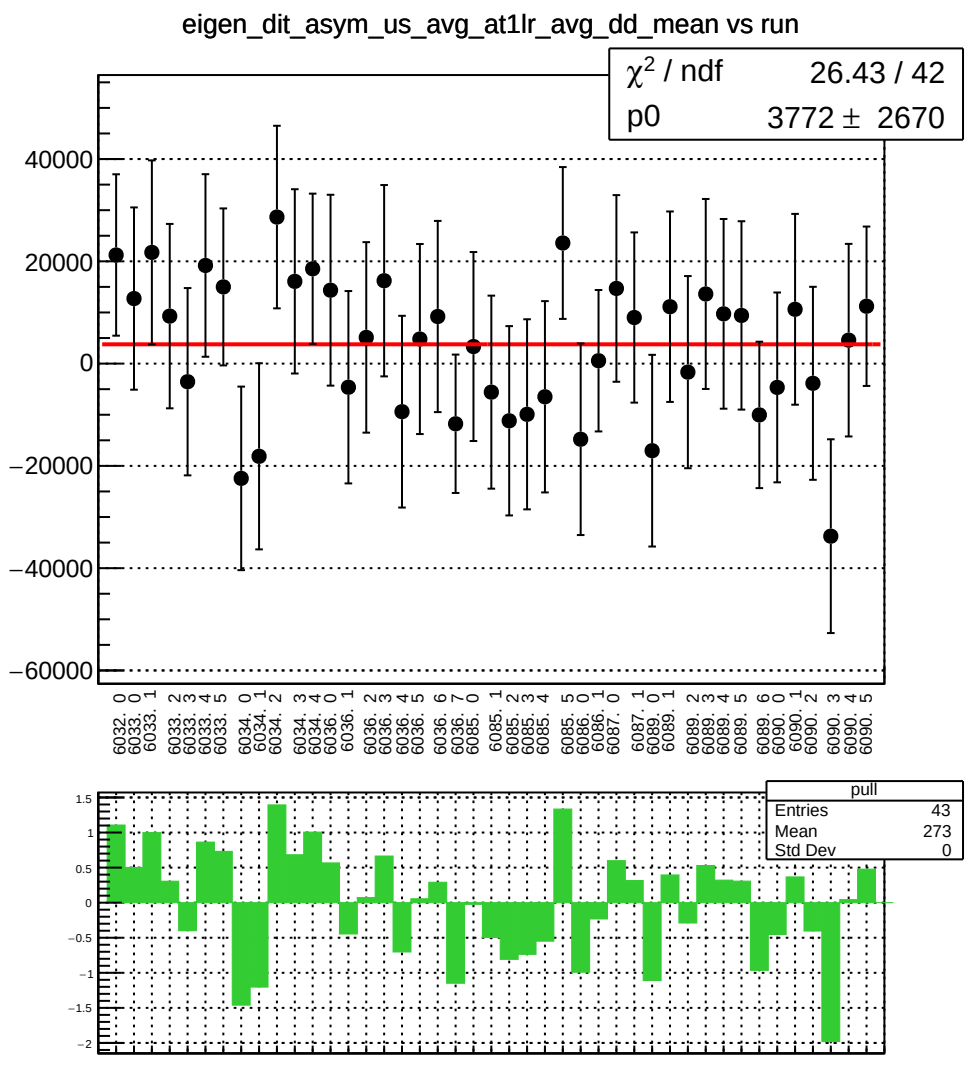

pull1D
Entries 43
Mean −0.01085
Std Dev 0.784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

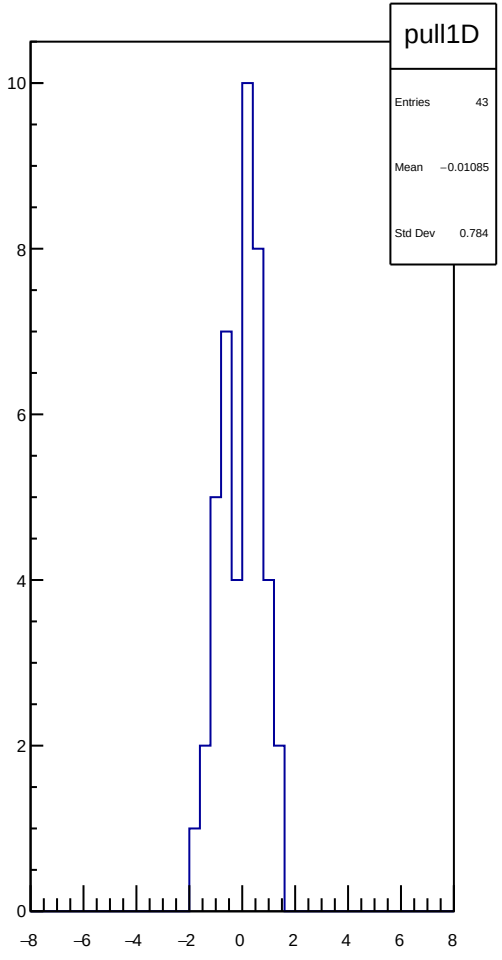

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1029 / 42
p0 1763 ± 1.888
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

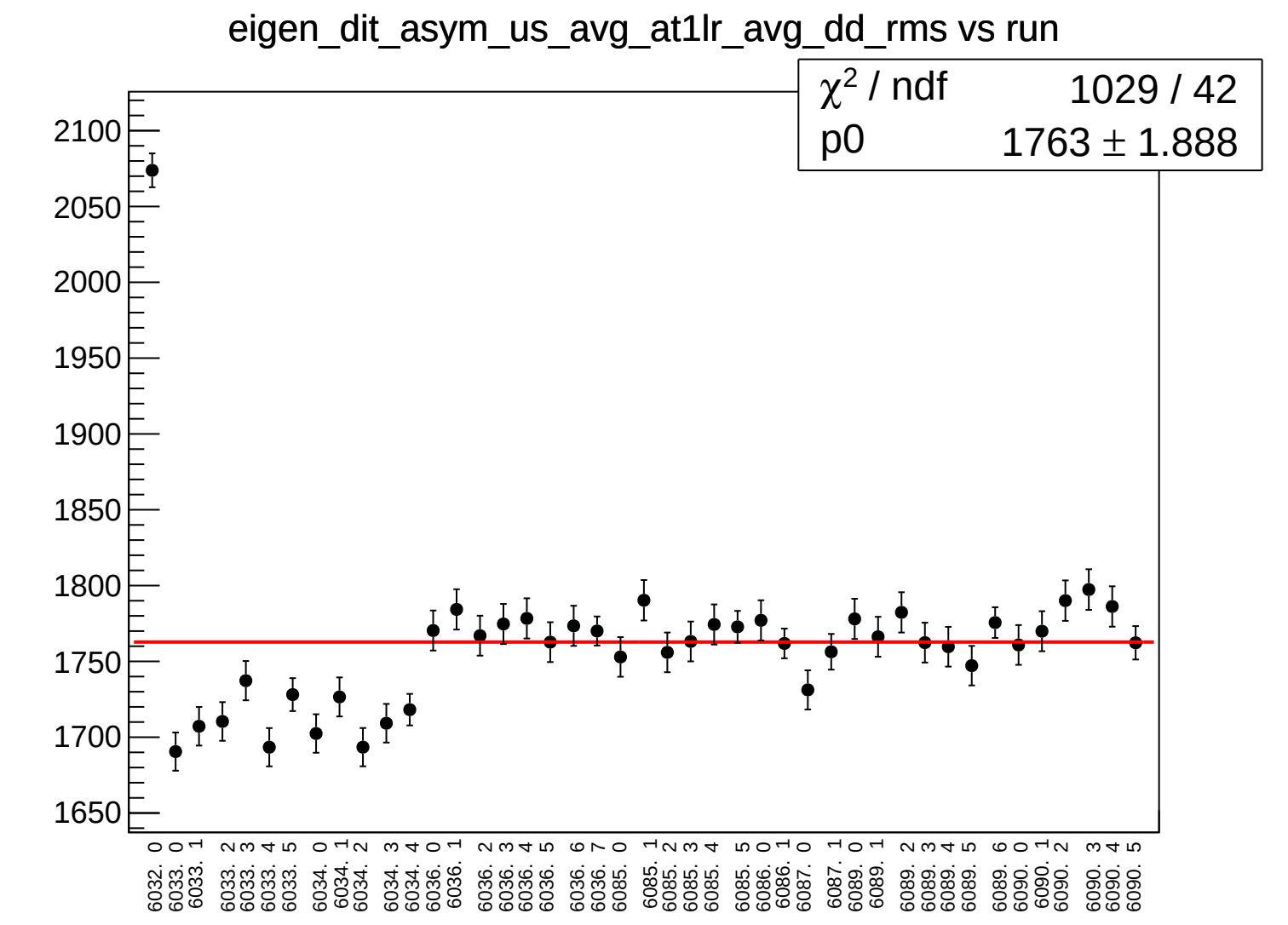

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 40.97 / 42
p0 −172.8 ± 952.8
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −10.33
Std Dev 0
2
1
0
−1
−2

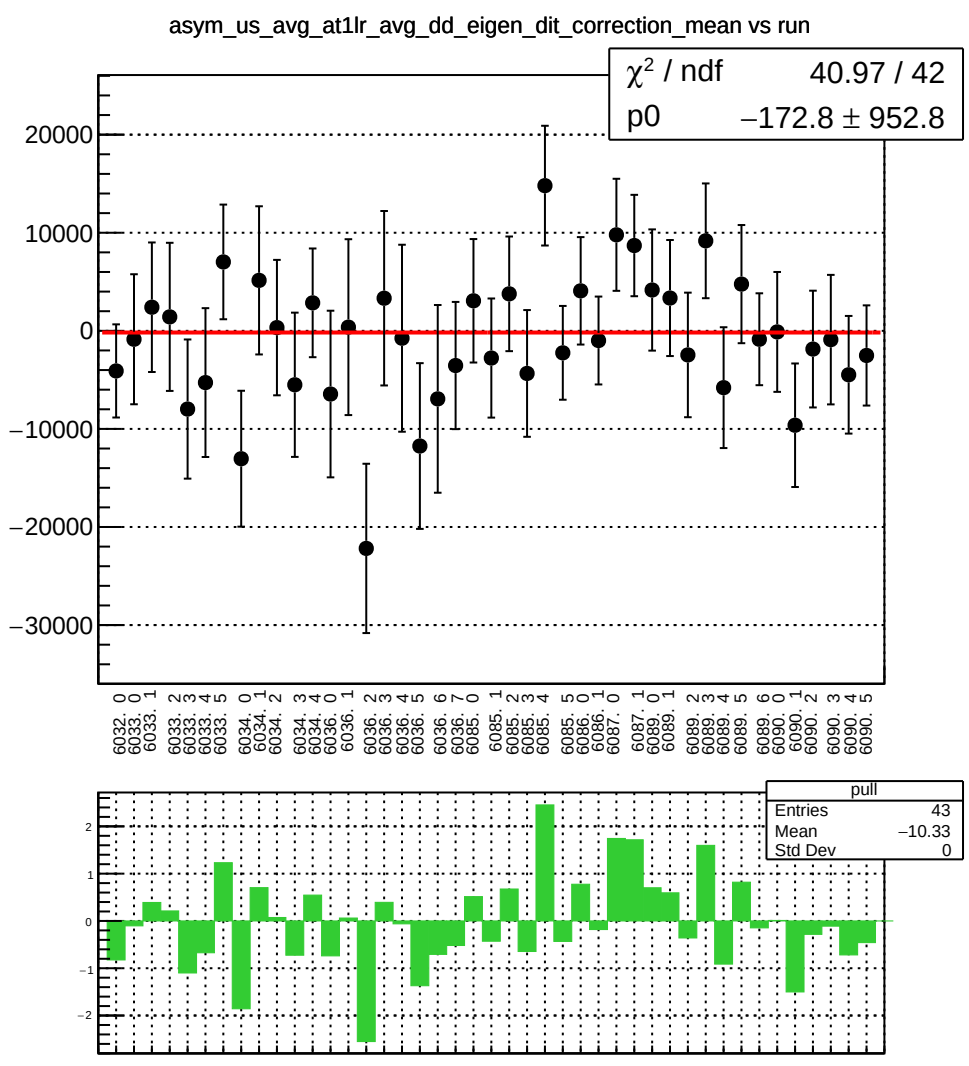

pull1D
Entries 43
Mean −0.05101
Std Dev 0.9748
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

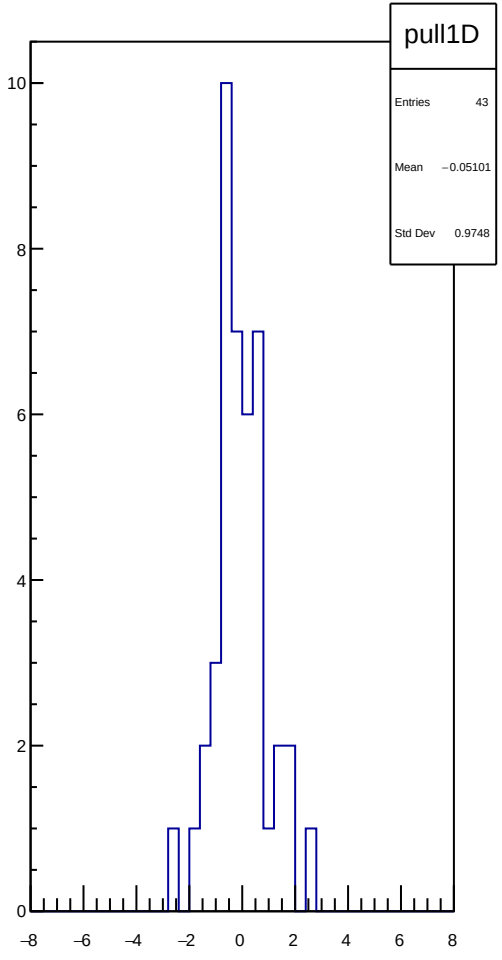

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.697e+04 / 42
p0 623.4 ± 0.6738
950
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

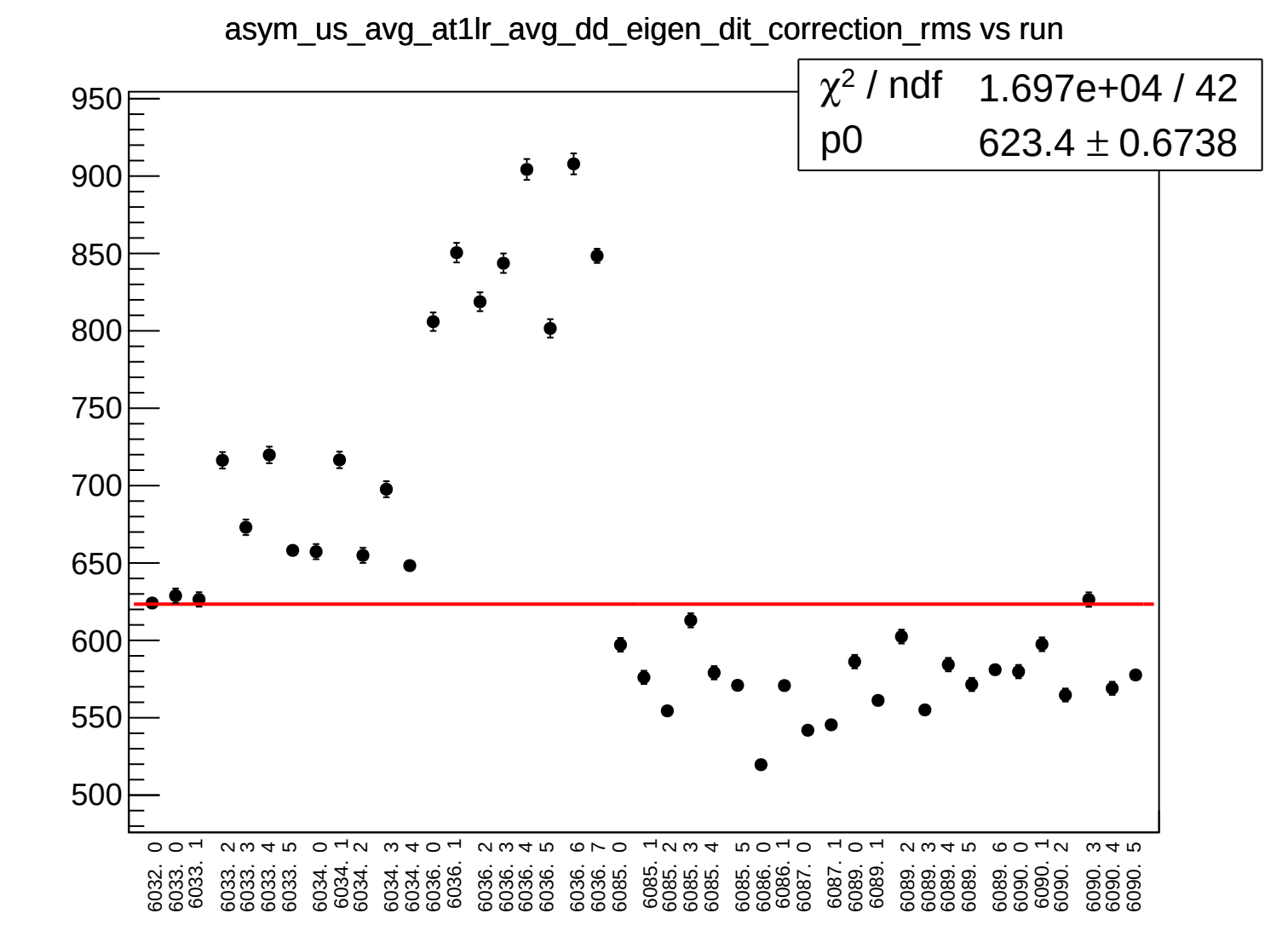

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 26.43 / 42
p0 3772 ± 2670
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 273
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

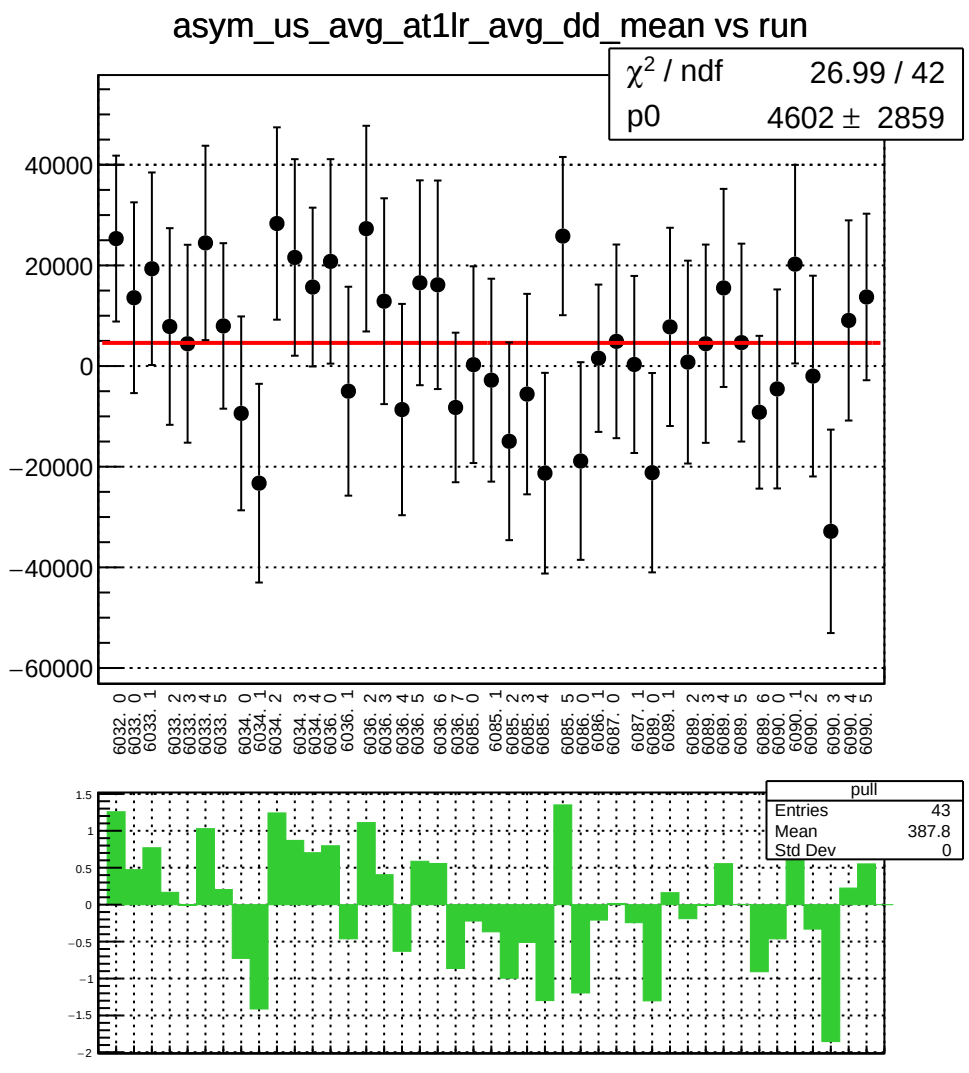

pull1D
Entries 43
Mean −0.01085
Std Dev 0.784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

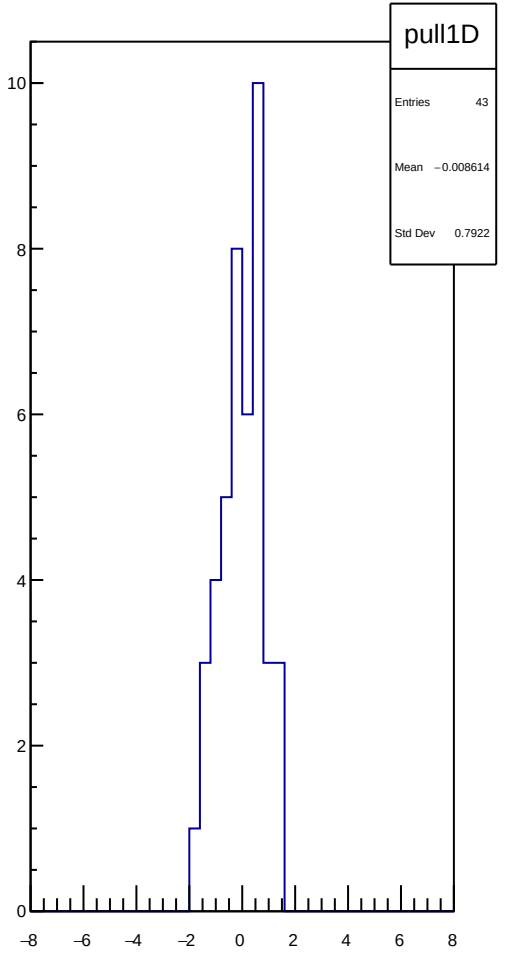

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1029 / 42
p0 1763 ± 1.888
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

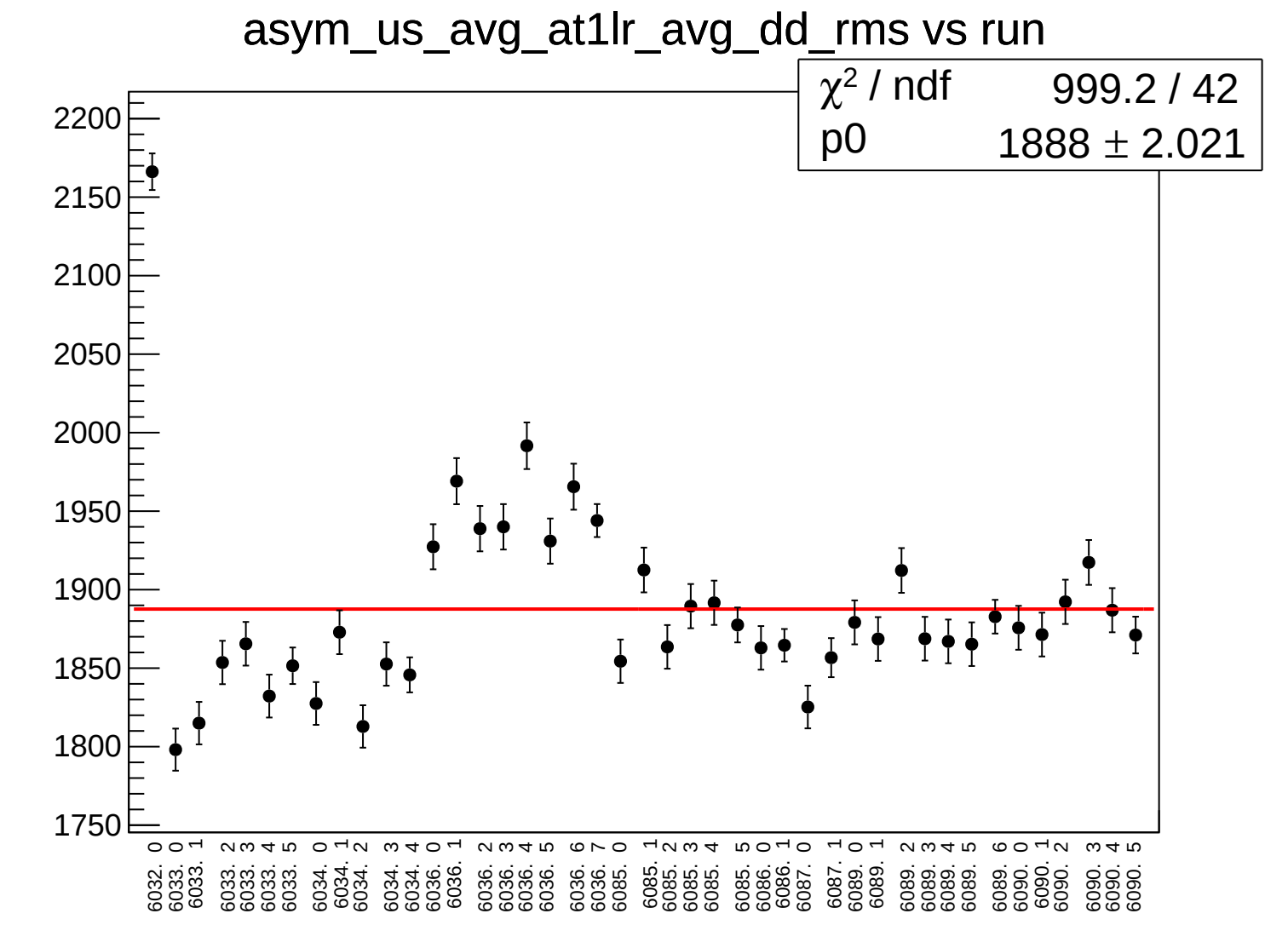

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.97 / 42
p0 −172.8 ± 952.8
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −10.33
Std Dev 0
2
1
0
−1
−2

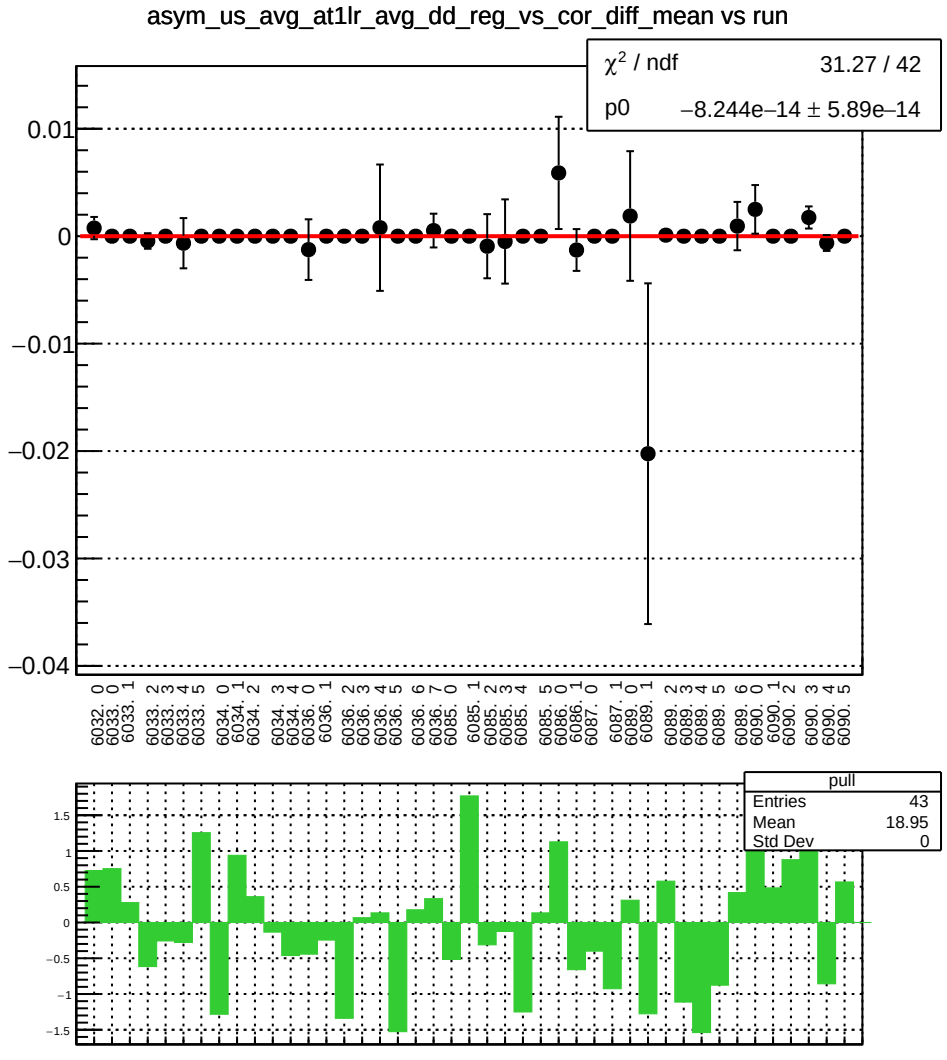

pull1D
Entries 43
Mean −0.05101
Std Dev 0.9748
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

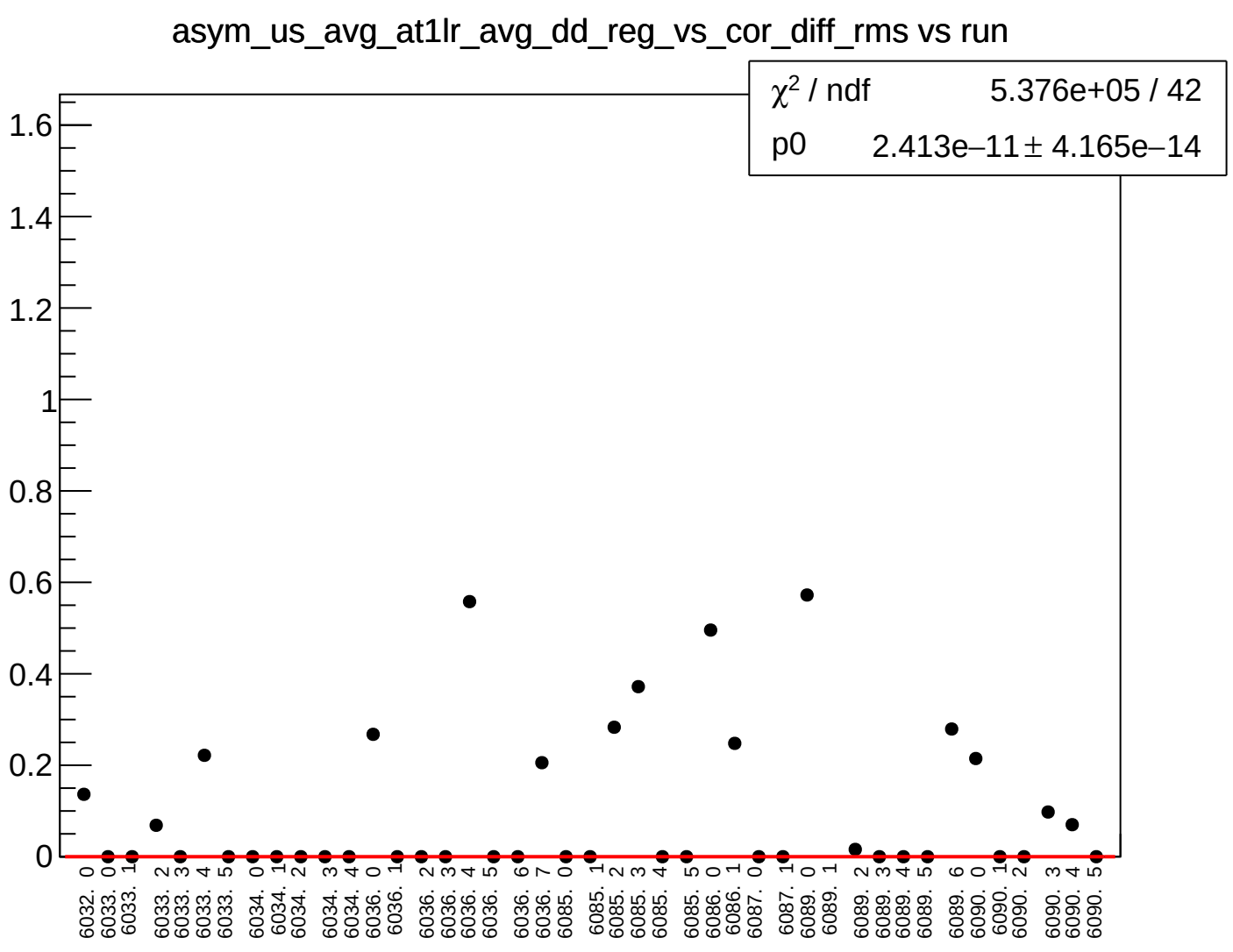

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.697e+04 / 42
p0 623.4 ± 0.6738
950
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

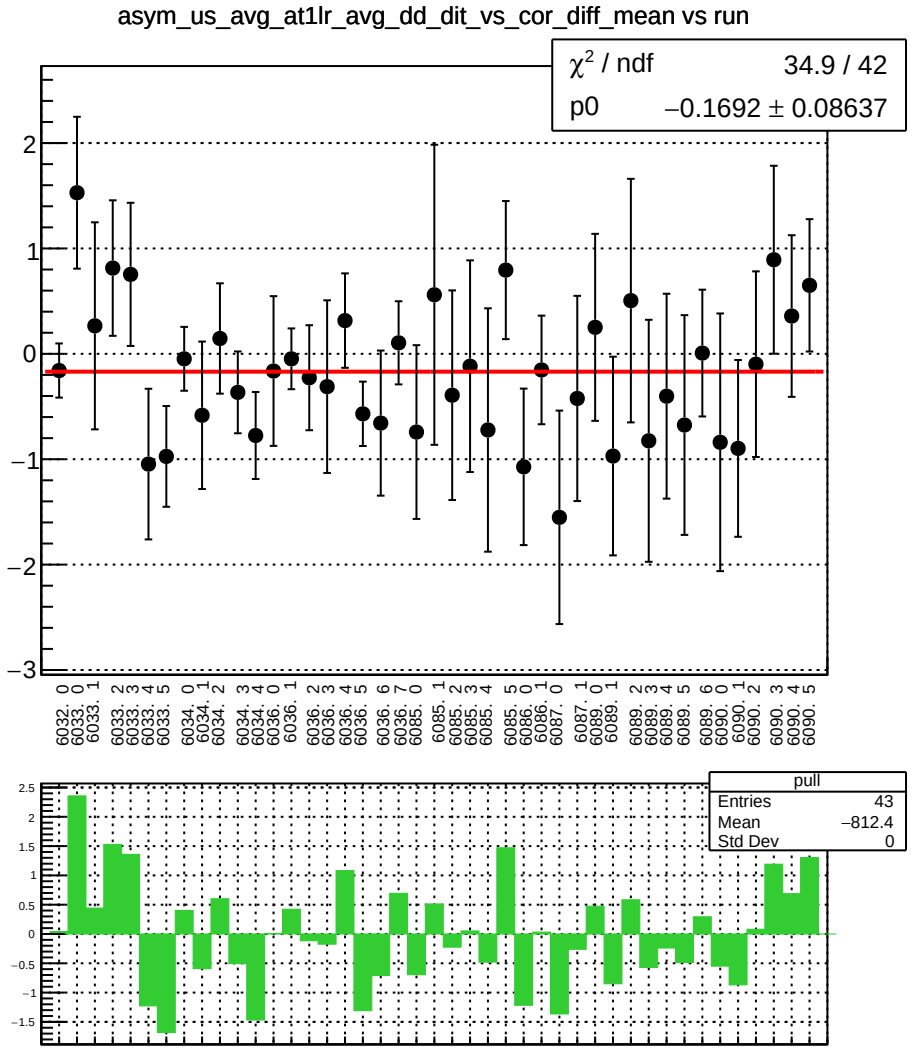

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 26.99 / 42
p0 4602 ± 2859
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 387.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

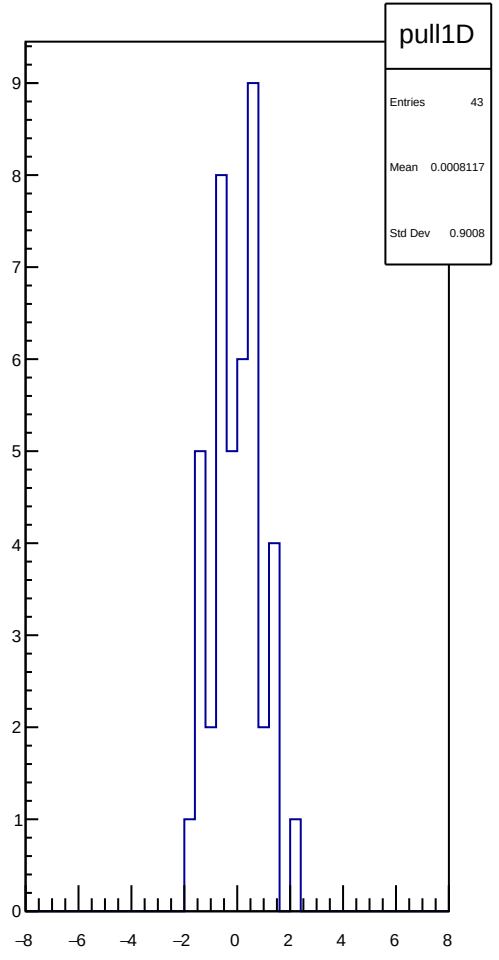

pull1D
Entries 43
Mean −0.008614
Std Dev 0.7922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

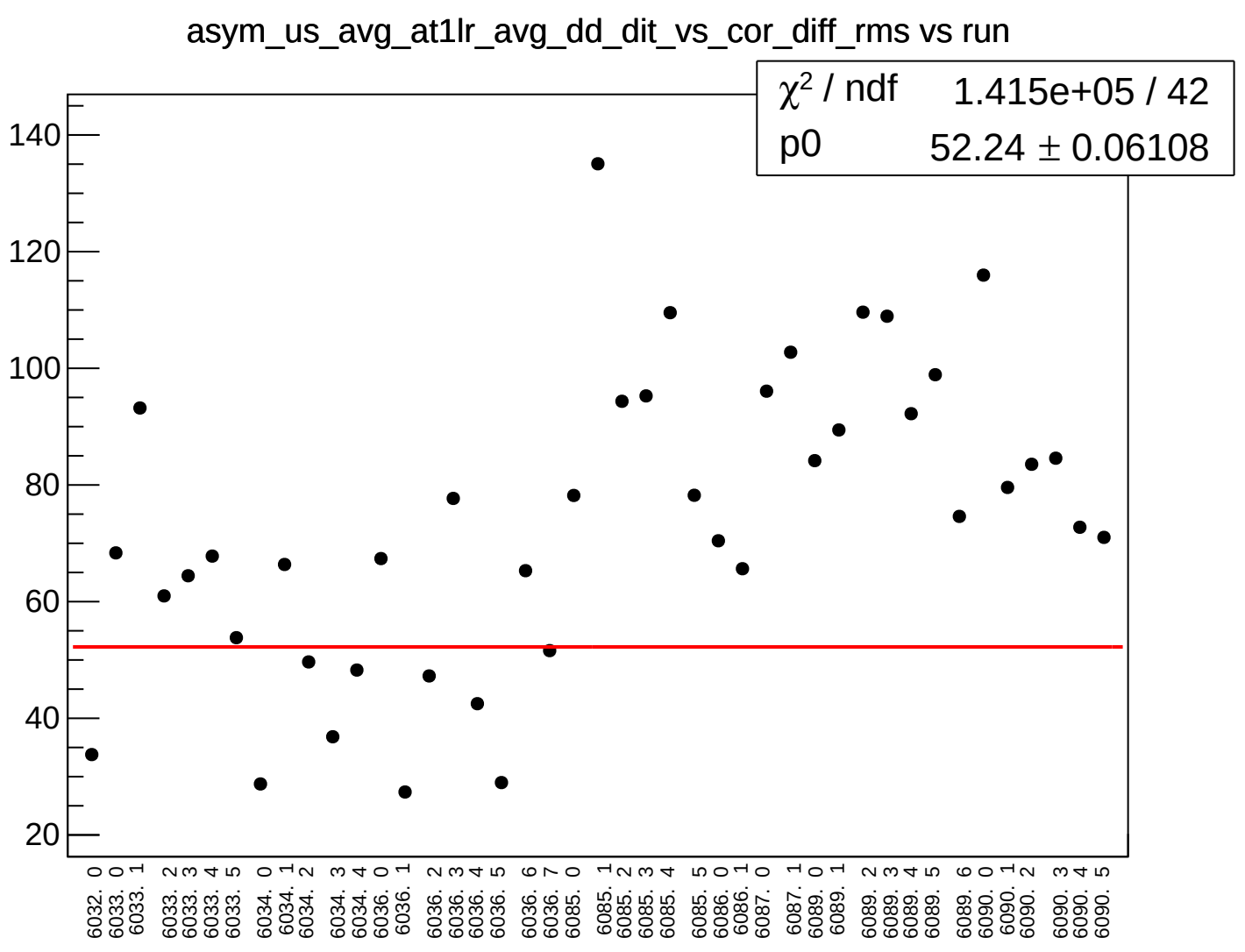

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 999.2 / 42
p0 1888 ± 2.021
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

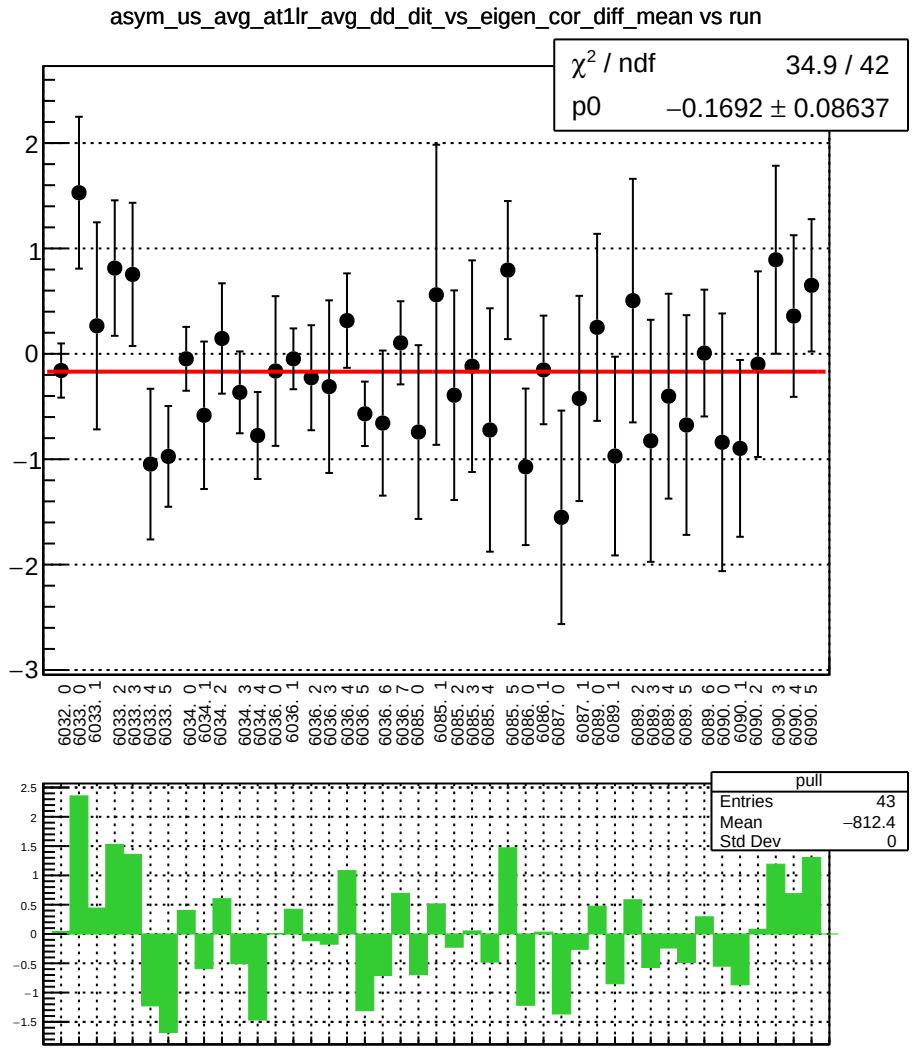

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.27 / 42
p0 −8.244e−14 ± 5.89e−14
0.01
0
−0.01
−0.02
−0.03
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.05469
Std Dev 0.8511
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

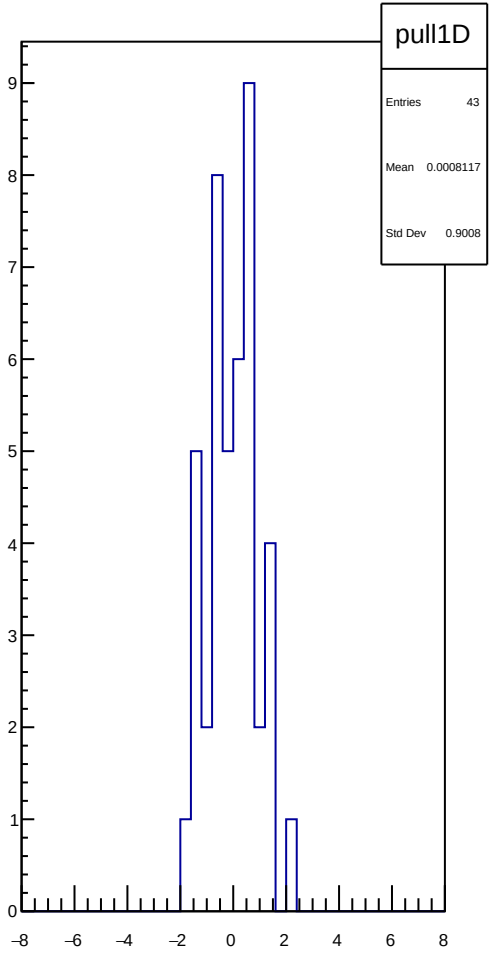

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.376e+05 / 42
p0 2.413e−11 ± 4.165e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

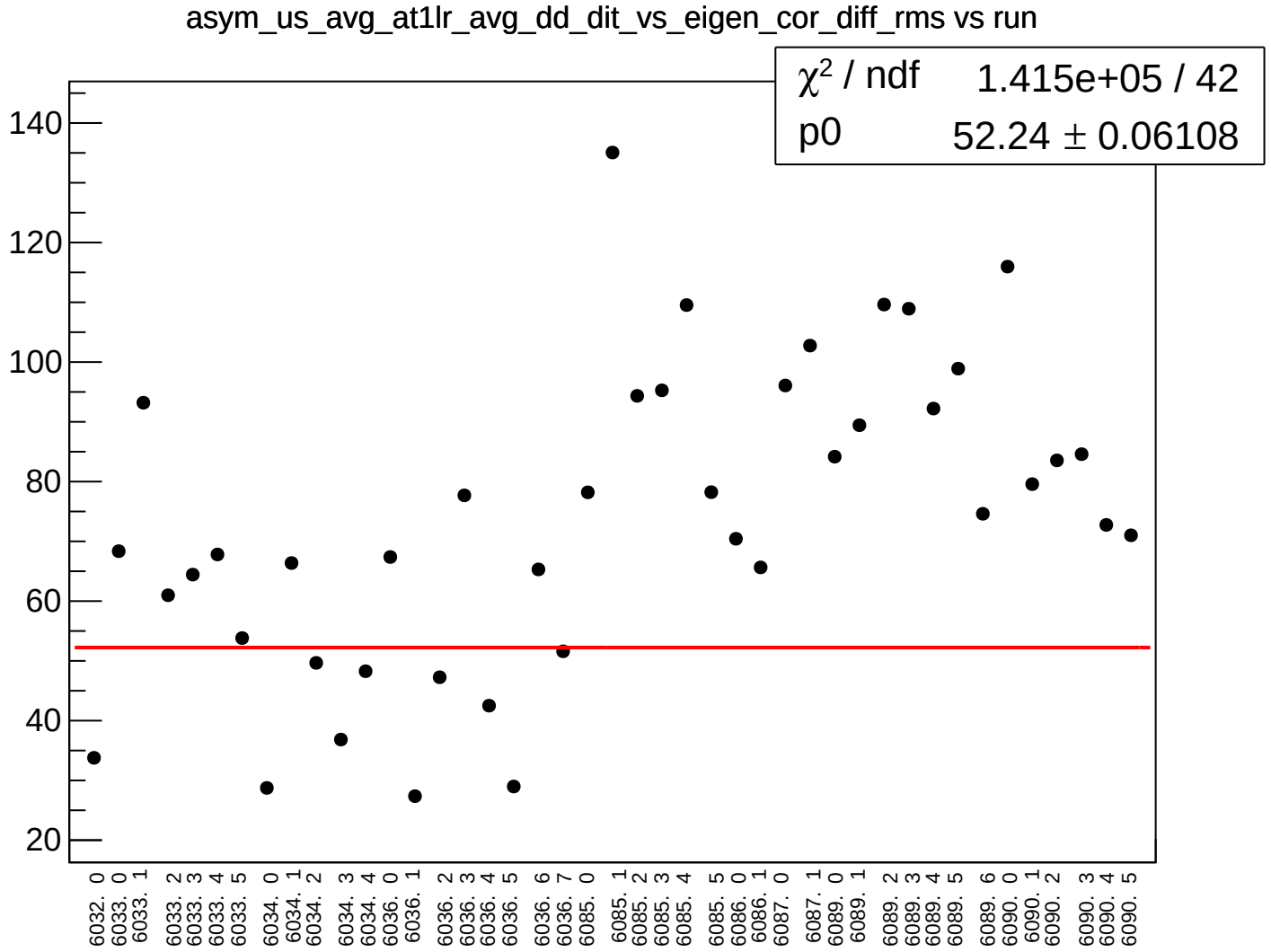

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.9 / 42
p0 −0.1692 ± 0.08637
pull
Entries 43
Mean −812.4
Std Dev 0

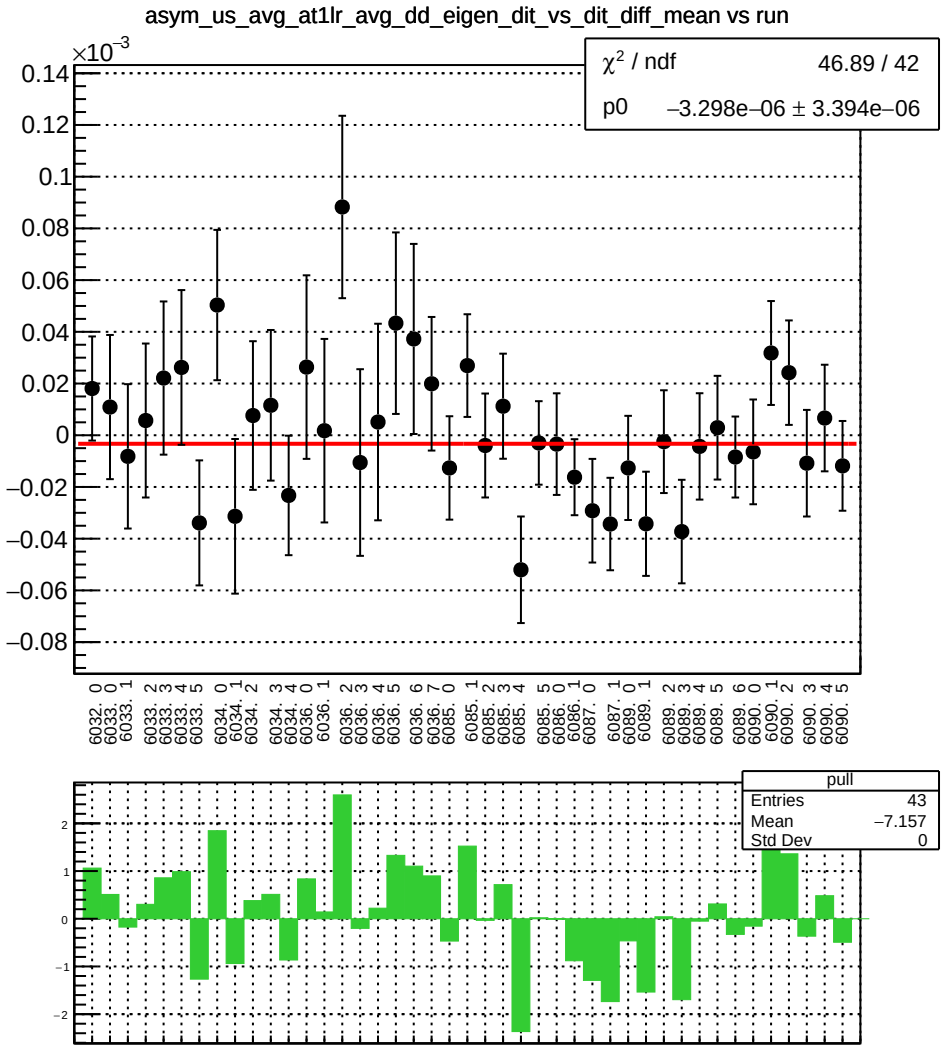

pull1D
Entries 43
Mean 0.0008117
Std Dev 0.9008

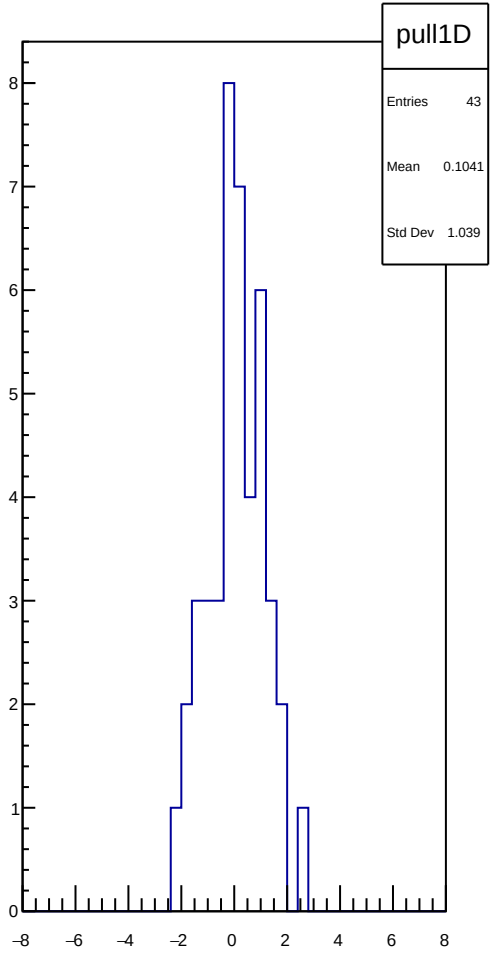

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.415e+05 / 42
p0 52.24 ± 0.06108
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

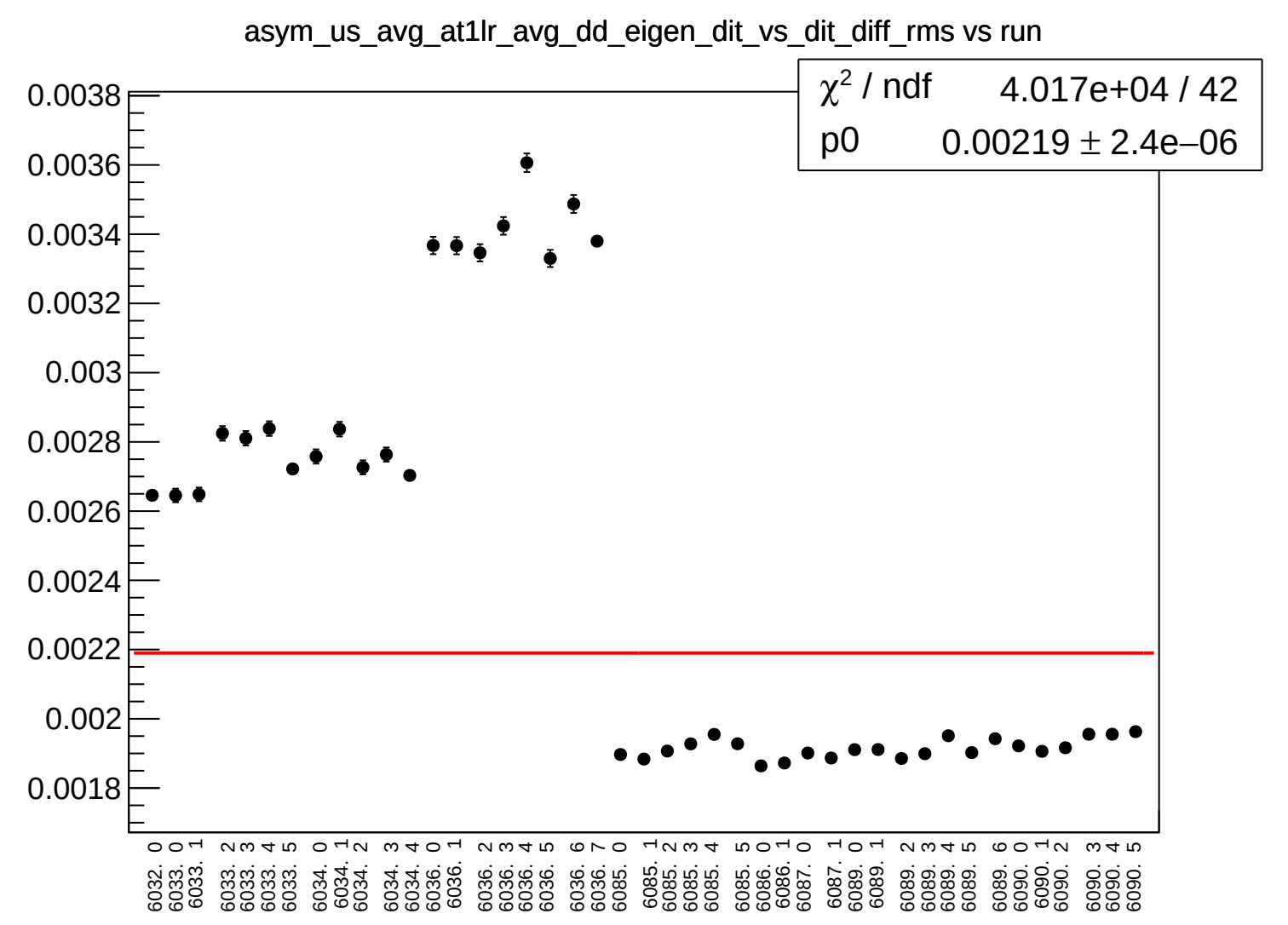

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.9 / 42
p0 −0.1692 ± 0.08637
pull
Entries 43
Mean −812.4
Std Dev 0

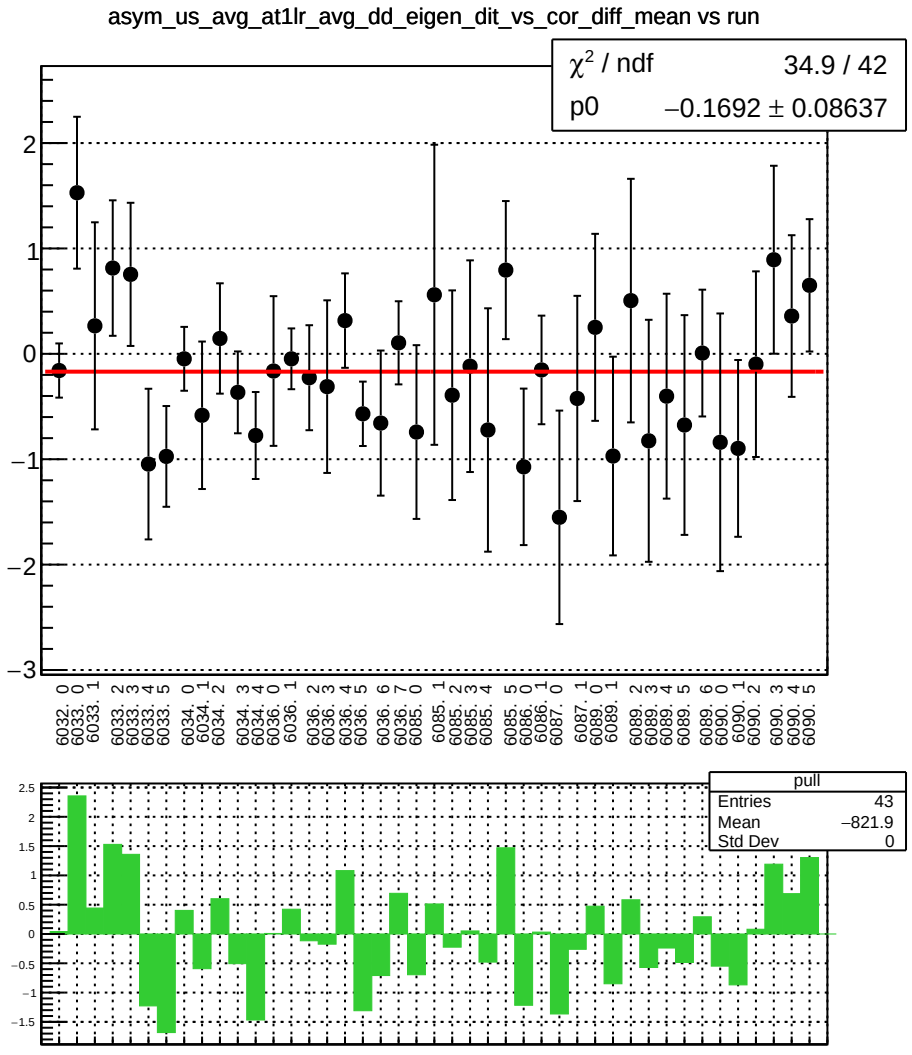

pull1D
Entries 43
Mean 0.0008117
Std Dev 0.9008

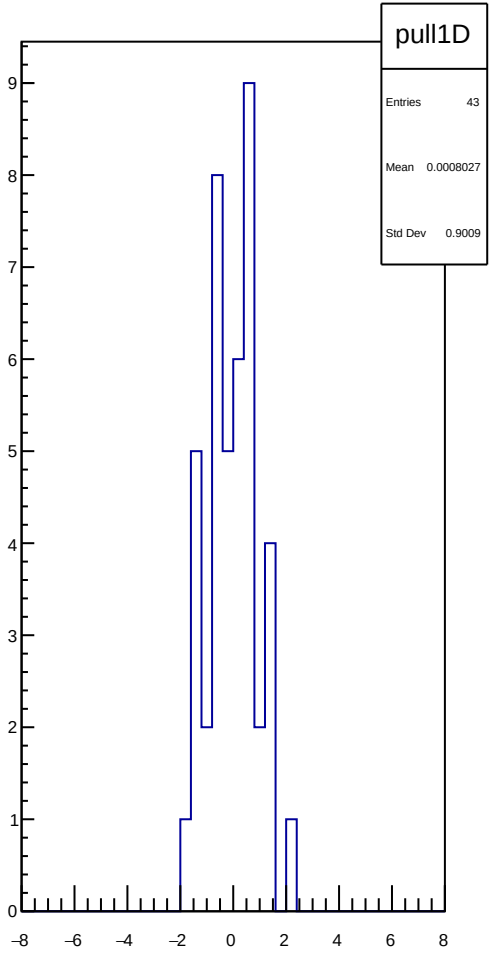

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.415e+05 / 42
p0 52.24 ± 0.06108
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

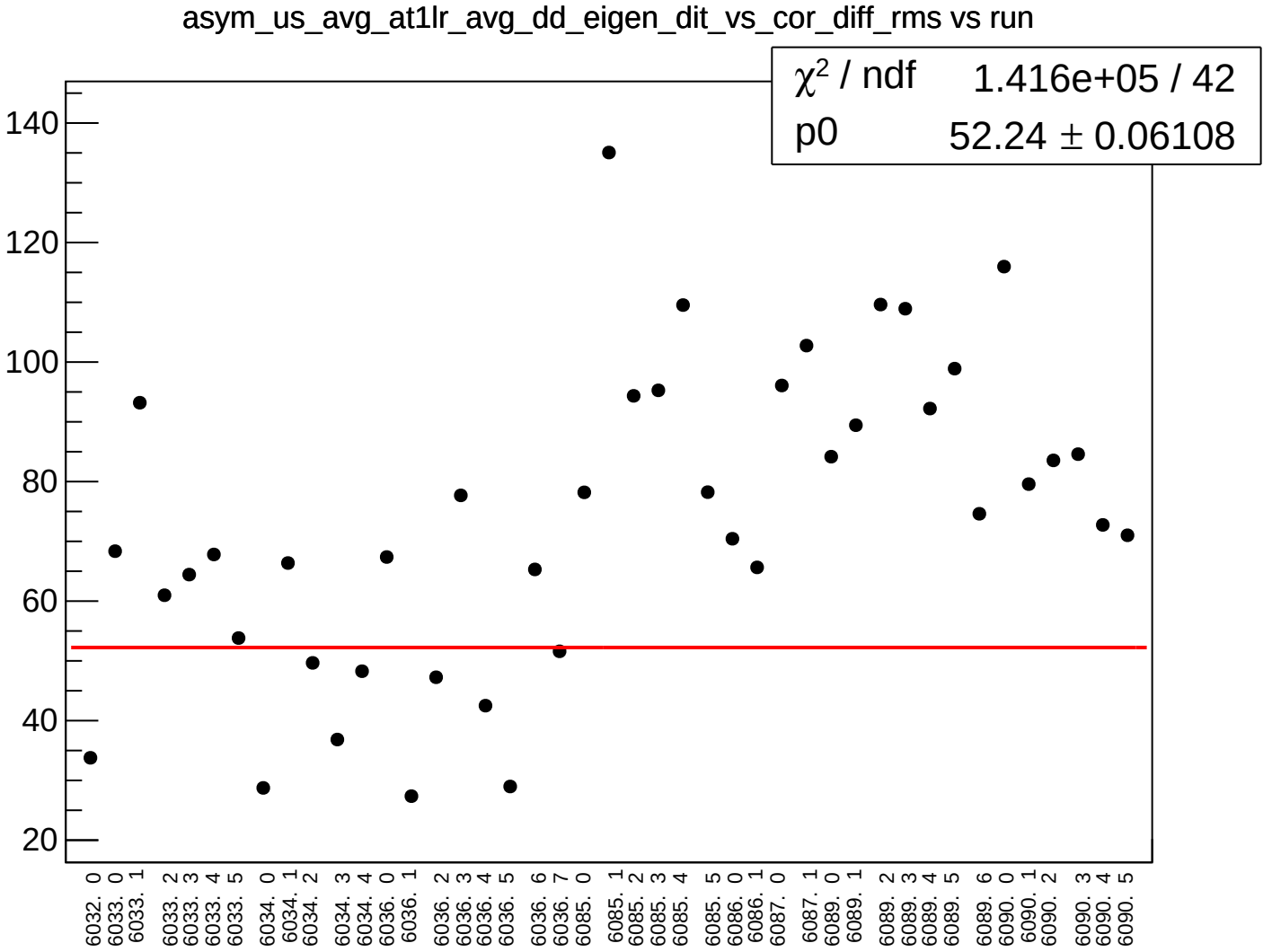

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.89 / 42
p0 −3.298e−06 ± 3.394e−06
pull
Entries 43
Mean −7.157
Std Dev 0

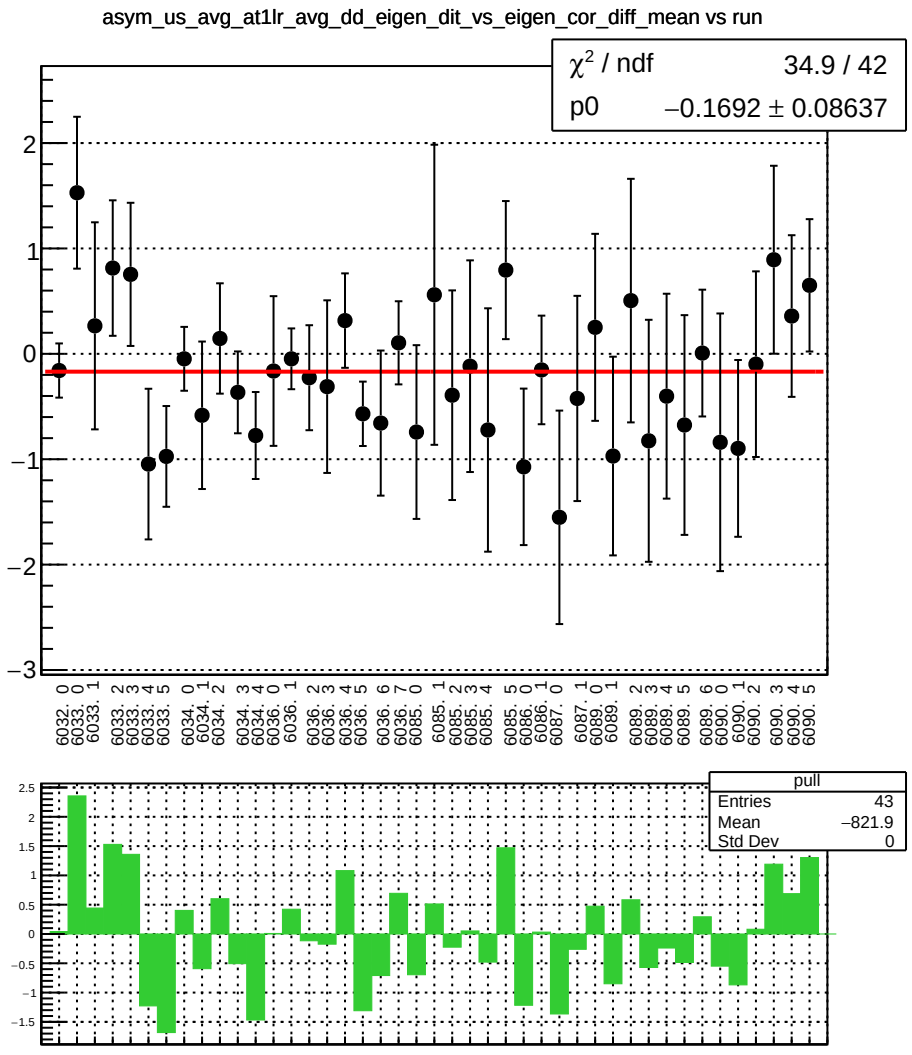

pull1D
Entries 43
Mean 0.1041
Std Dev 1.039

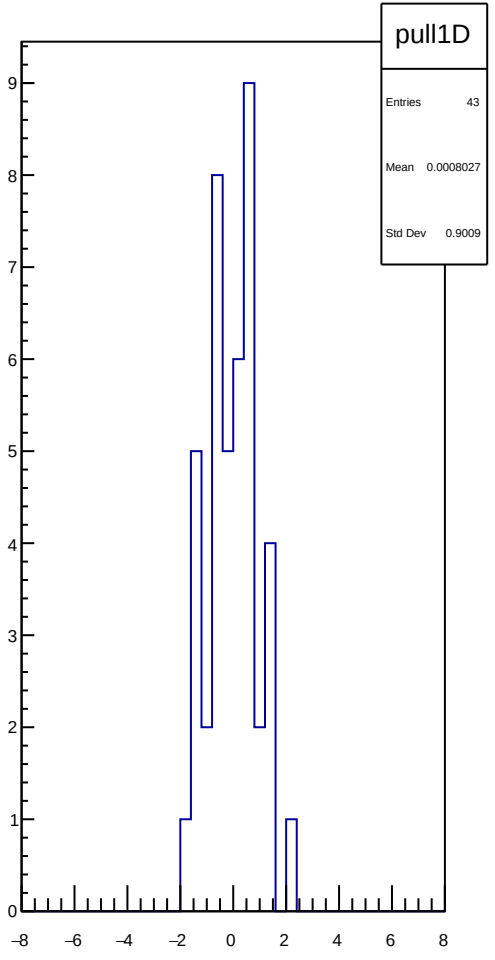

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.017e+04 / 42
p0 0.00219 ± 2.4e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

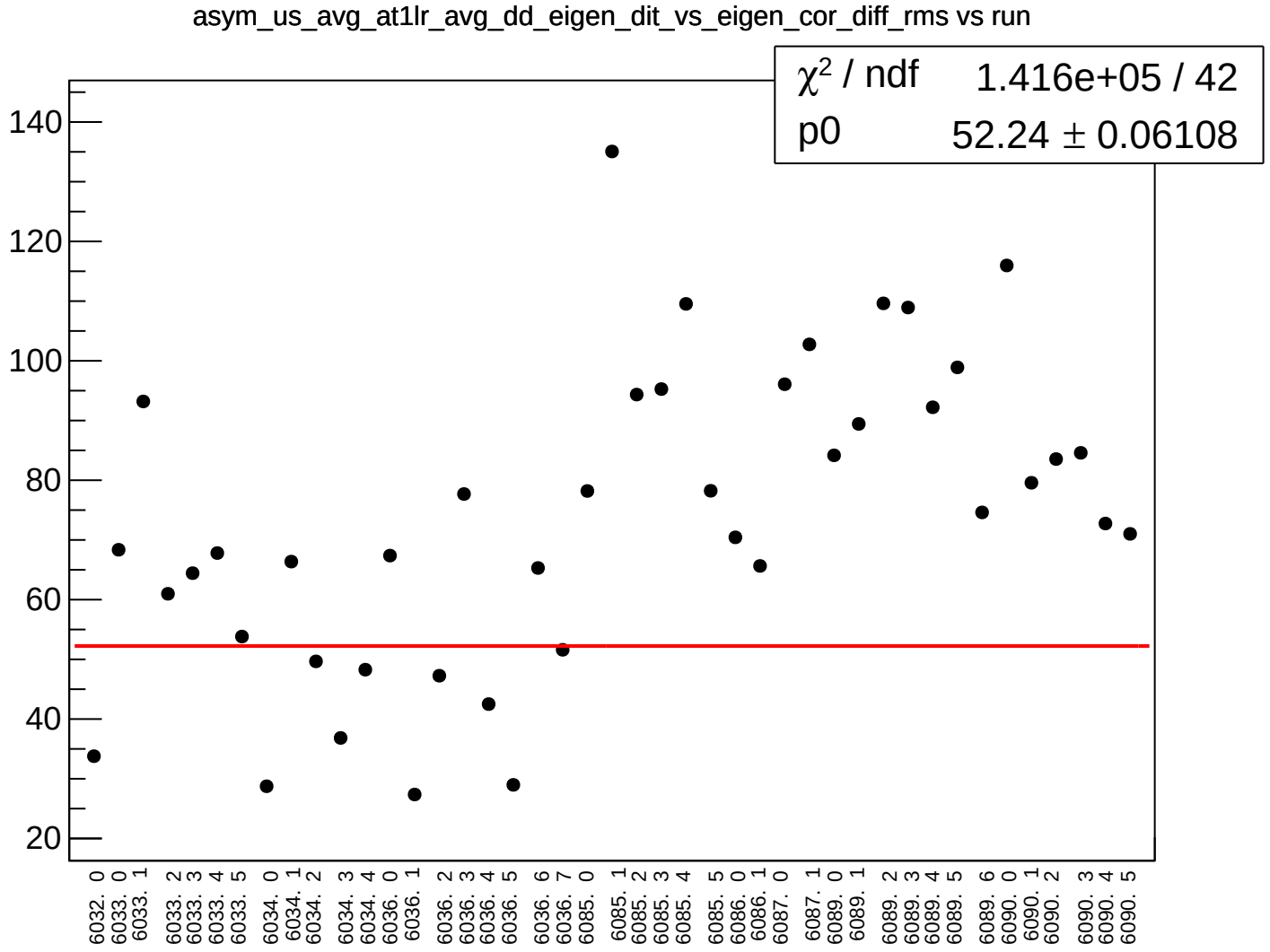

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.9 / 42
p0 −0.1692 ± 0.08637
pull
Entries 43
Mean −821.9
Std Dev 0

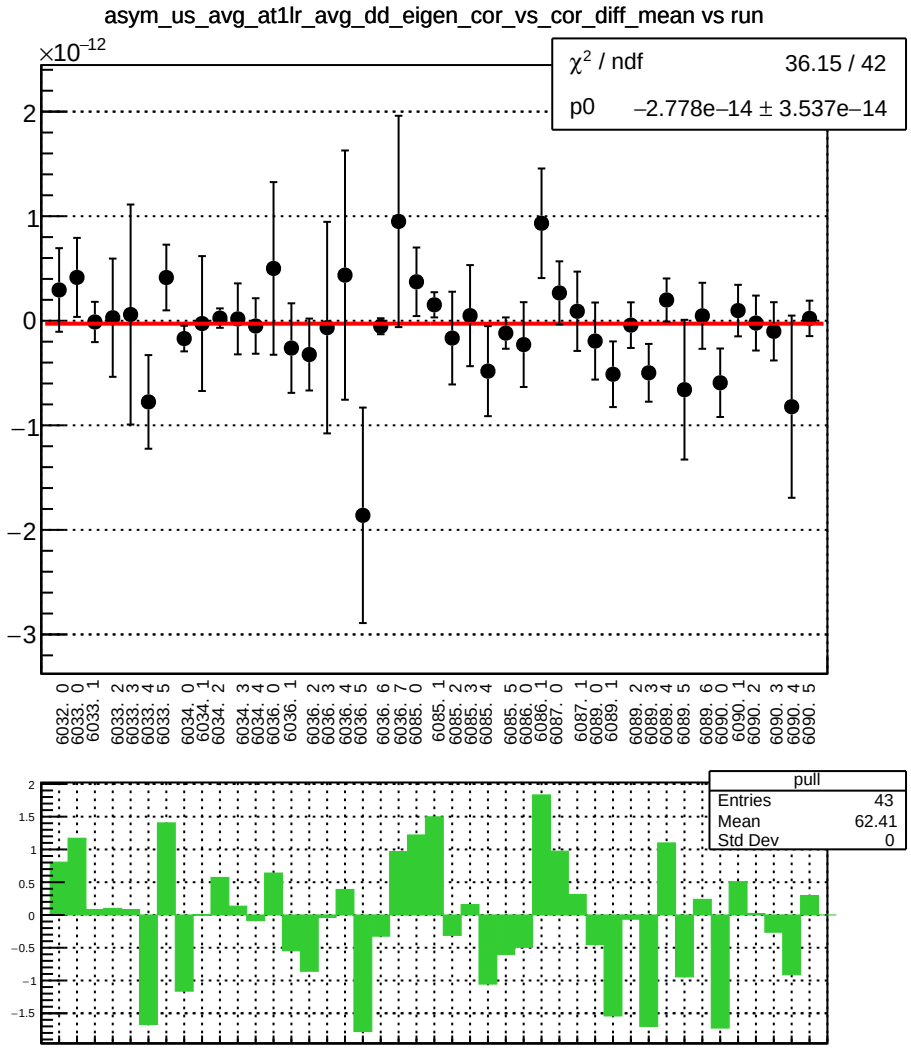

pull1D
Entries 43
Mean 0.0008027
Std Dev 0.9009

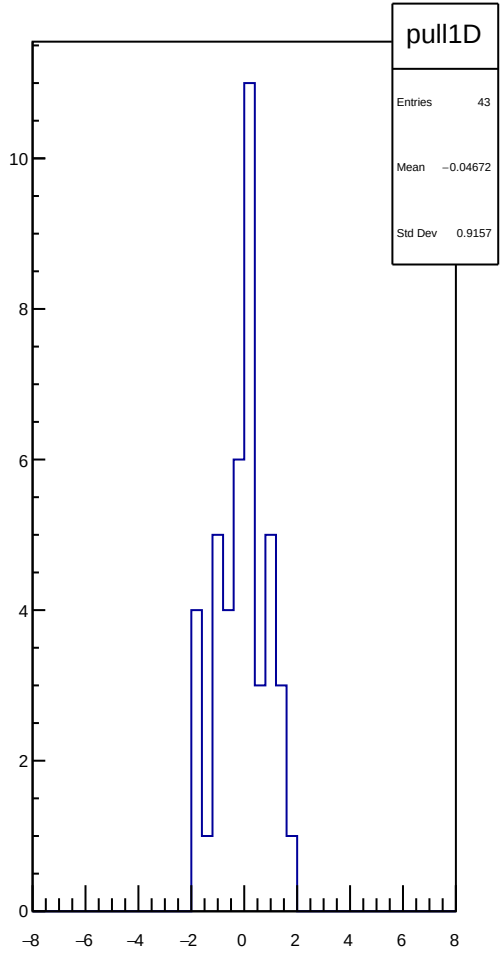

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.416e+05 / 42
p0 52.24 ± 0.06108
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

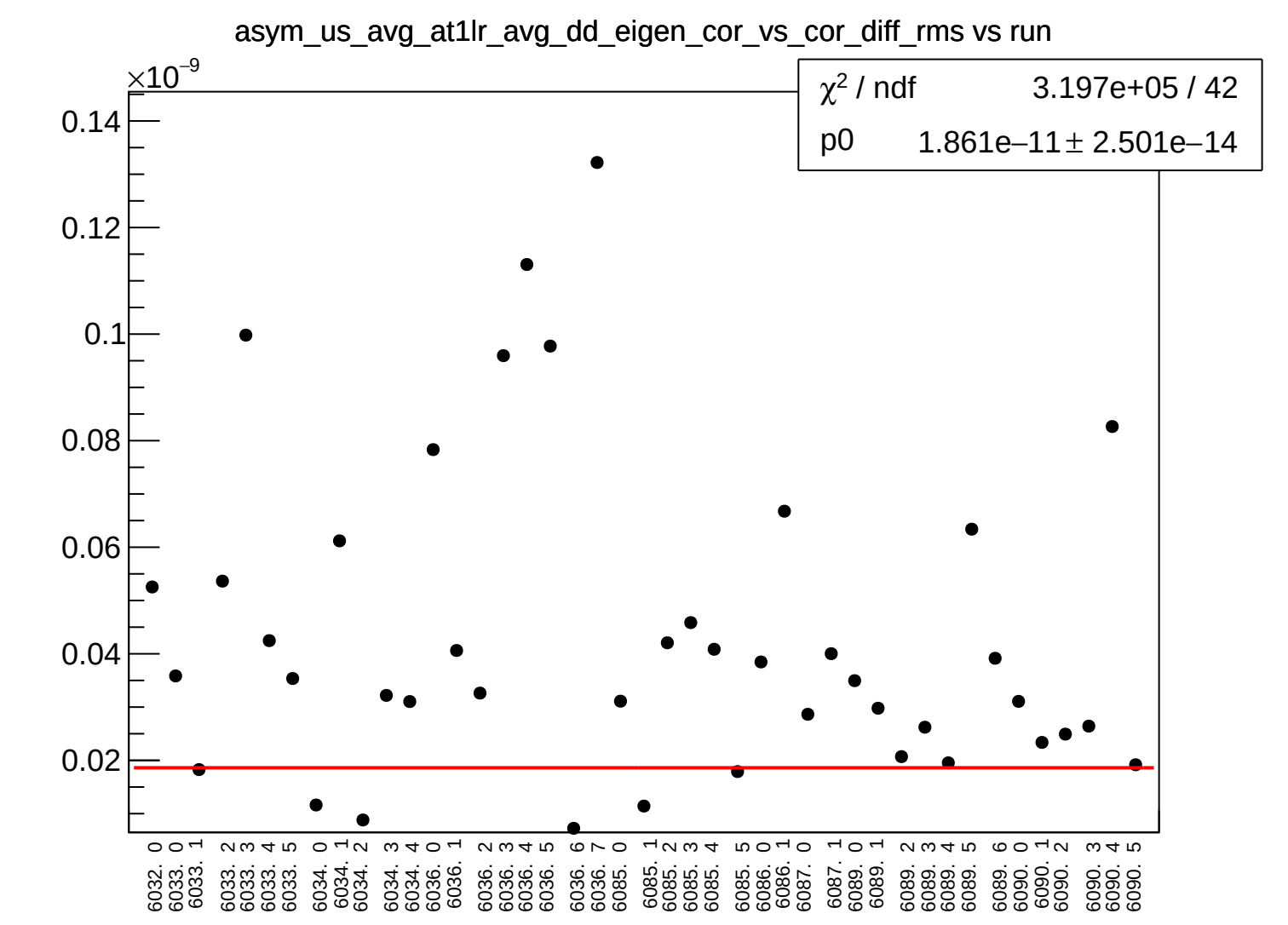

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.9 / 42
p0 −0.1692 ± 0.08637
pull
Entries 43
Mean −821.9
Std Dev 0

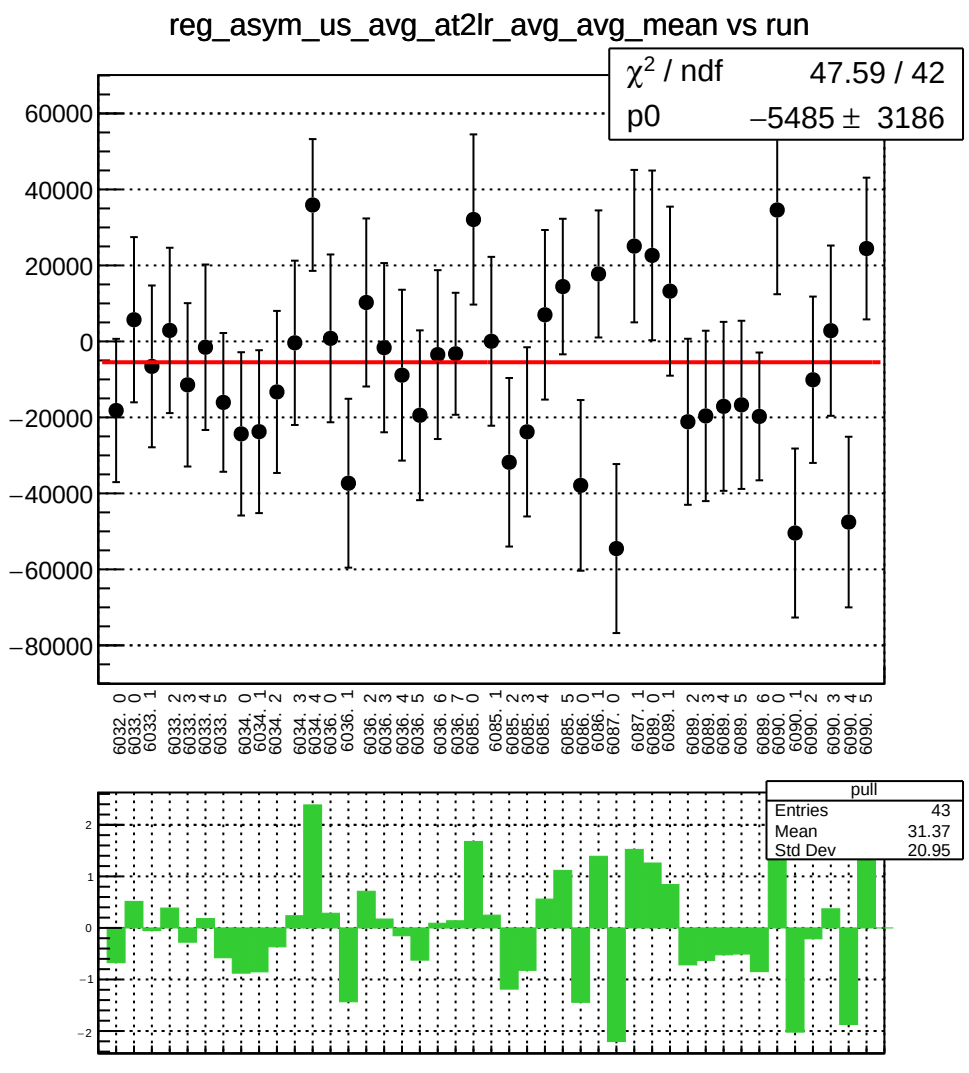

pull1D
Entries 43
Mean 0.0008027
Std Dev 0.9009

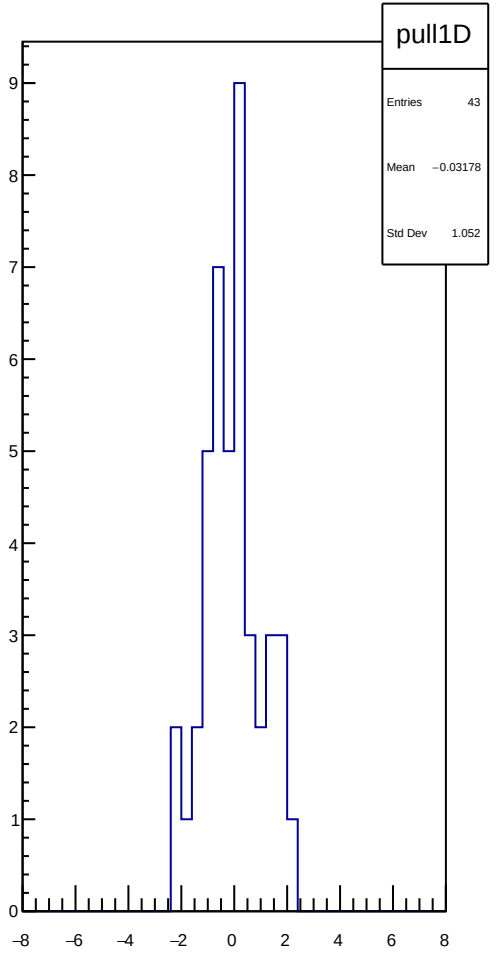

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.416e+05 / 42
p0 52.24 ± 0.06108
140
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

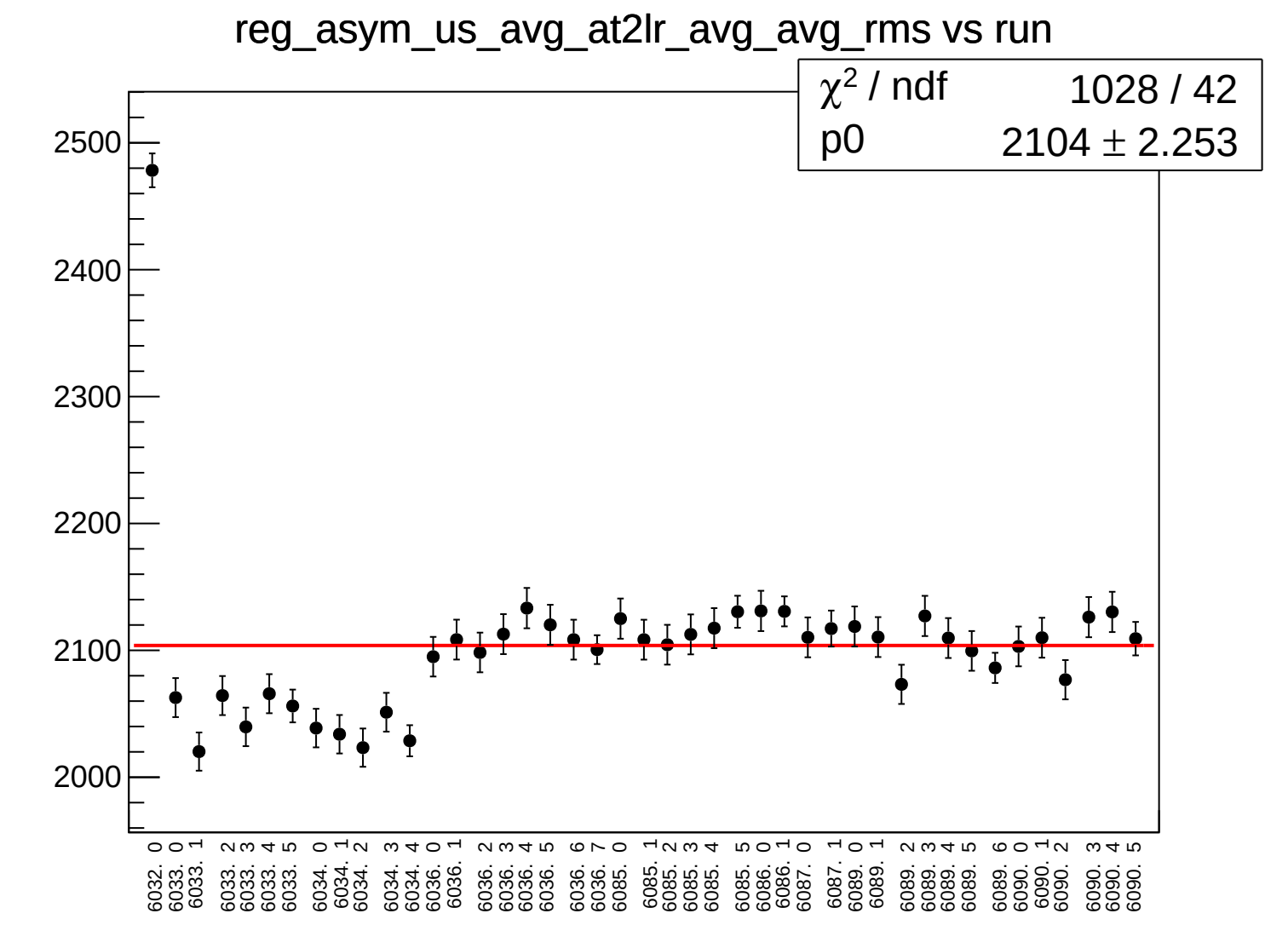

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.15 / 42
p0 −2.778e−14 ± 3.537e−14
pull
Entries 43
Mean 62.41
Std Dev 0

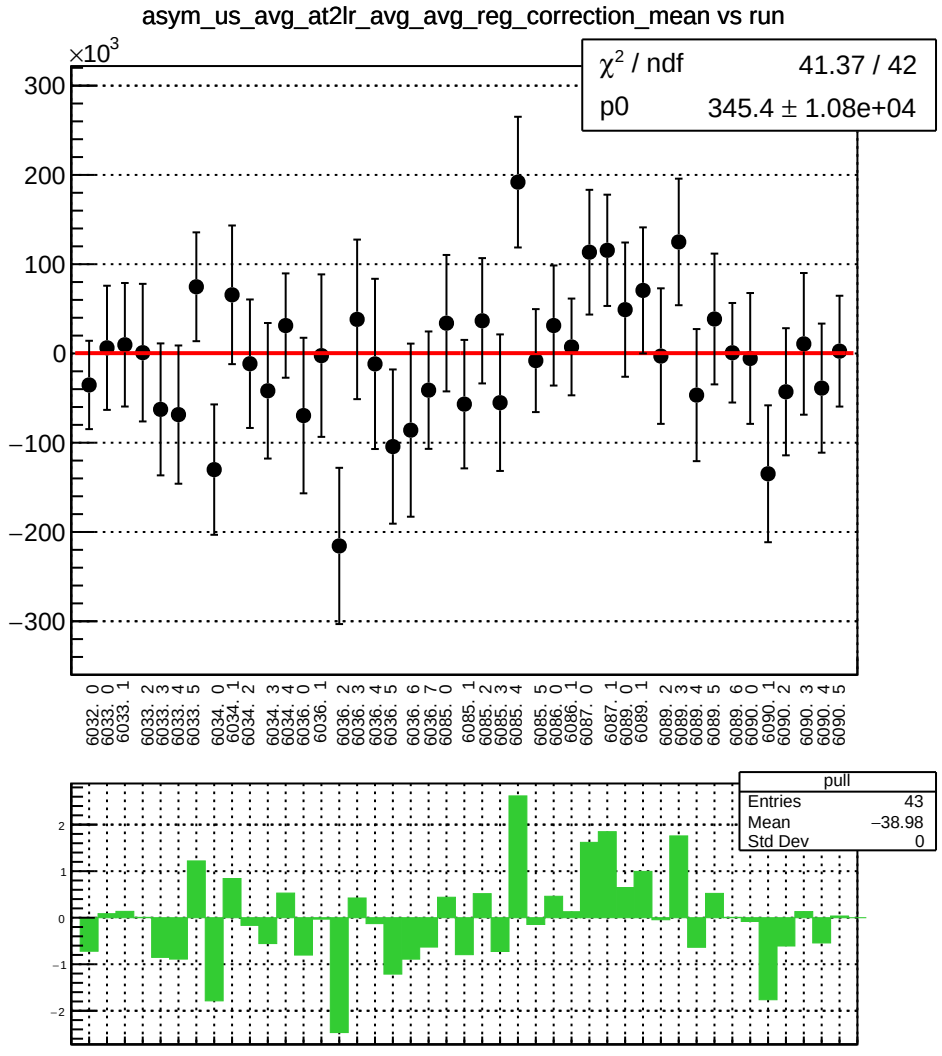

pull1D
Entries 43
Mean −0.04672
Std Dev 0.9157

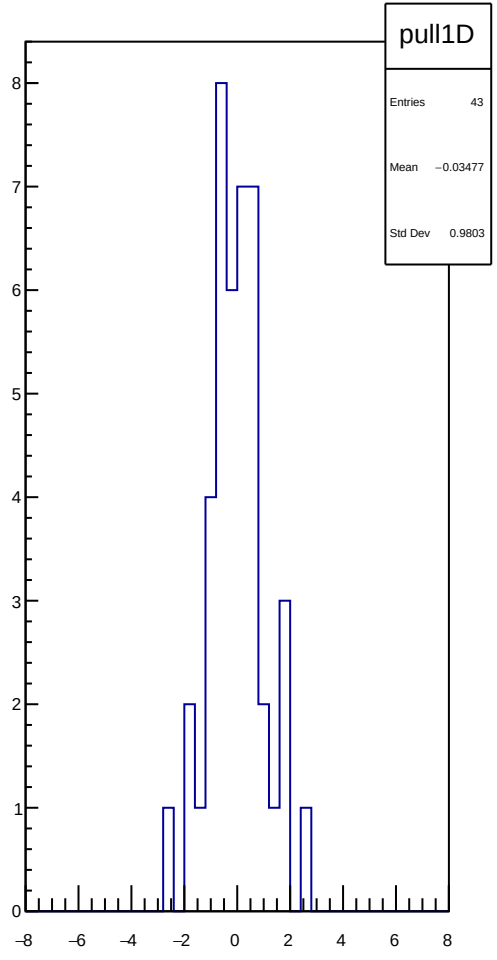

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.197e+05 / 42
p0 1.861e−11 ± 2.501e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

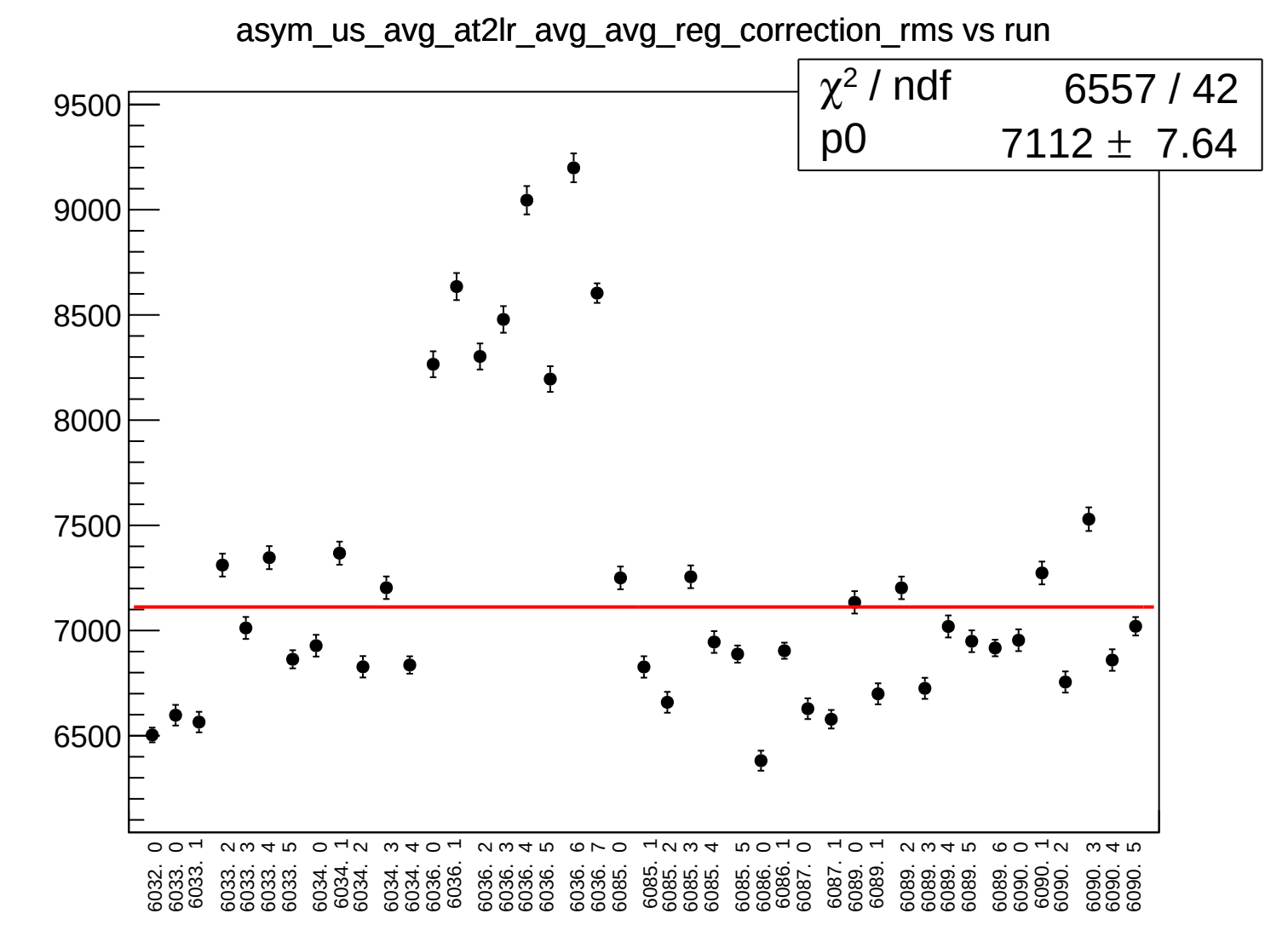

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 47.59 / 42
p0 −5485 ± 3186
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.37
Std Dev 20.95
2
1
0
−1
−2

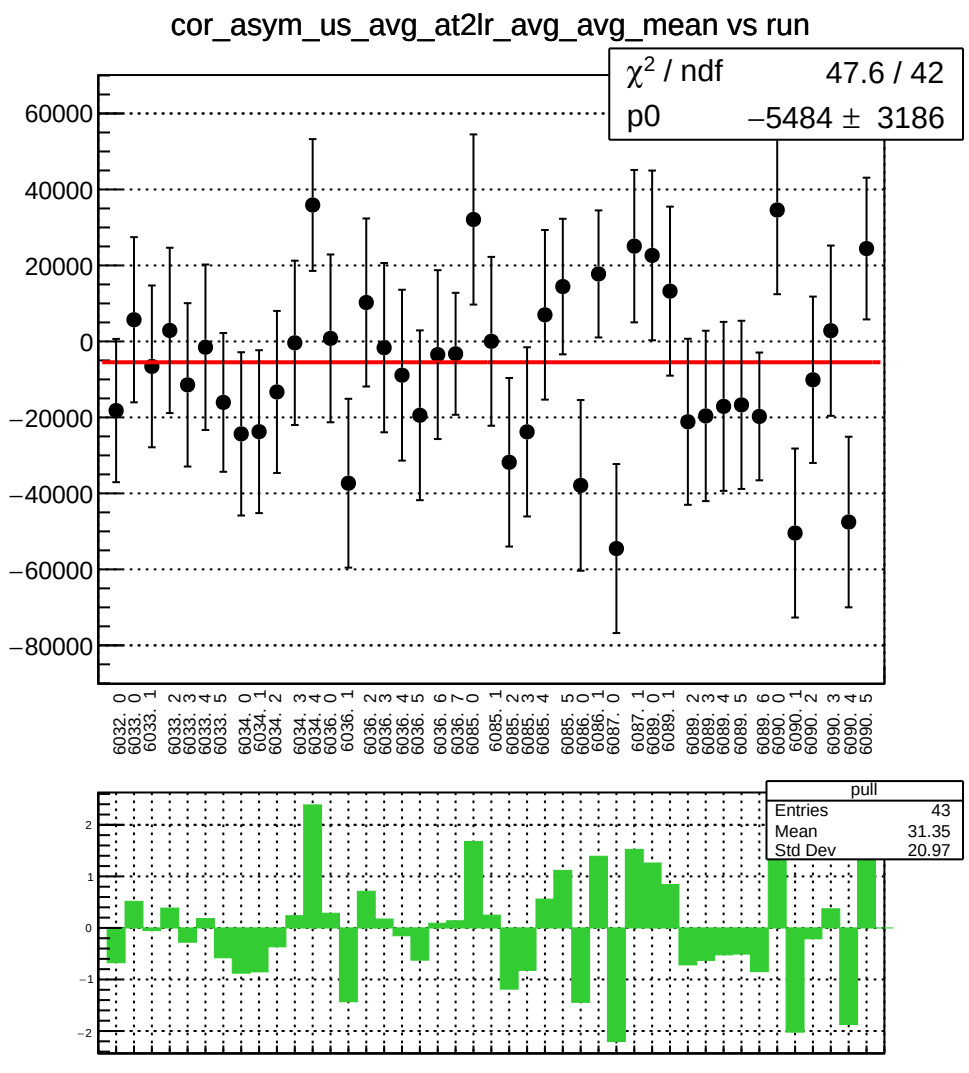

pull1D
Entries 43
Mean −0.03178
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

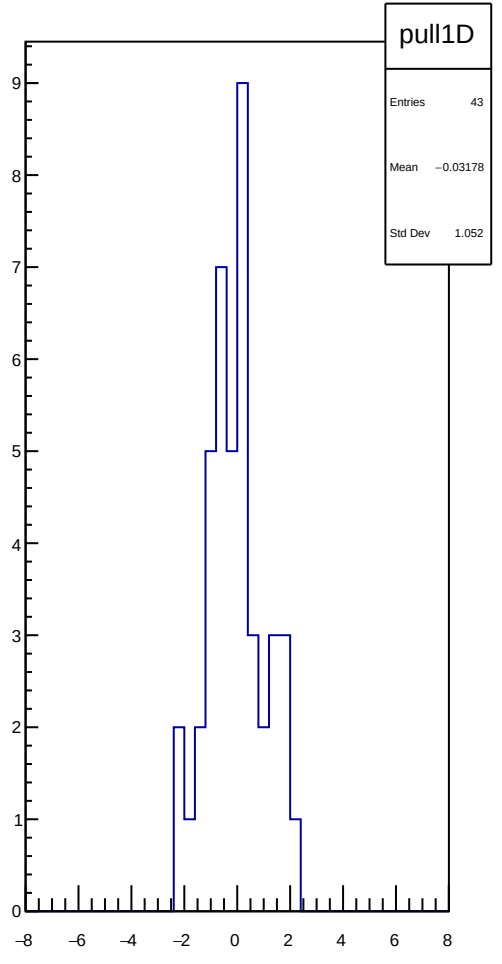

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1028 / 42
p0 2104 ± 2.253
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

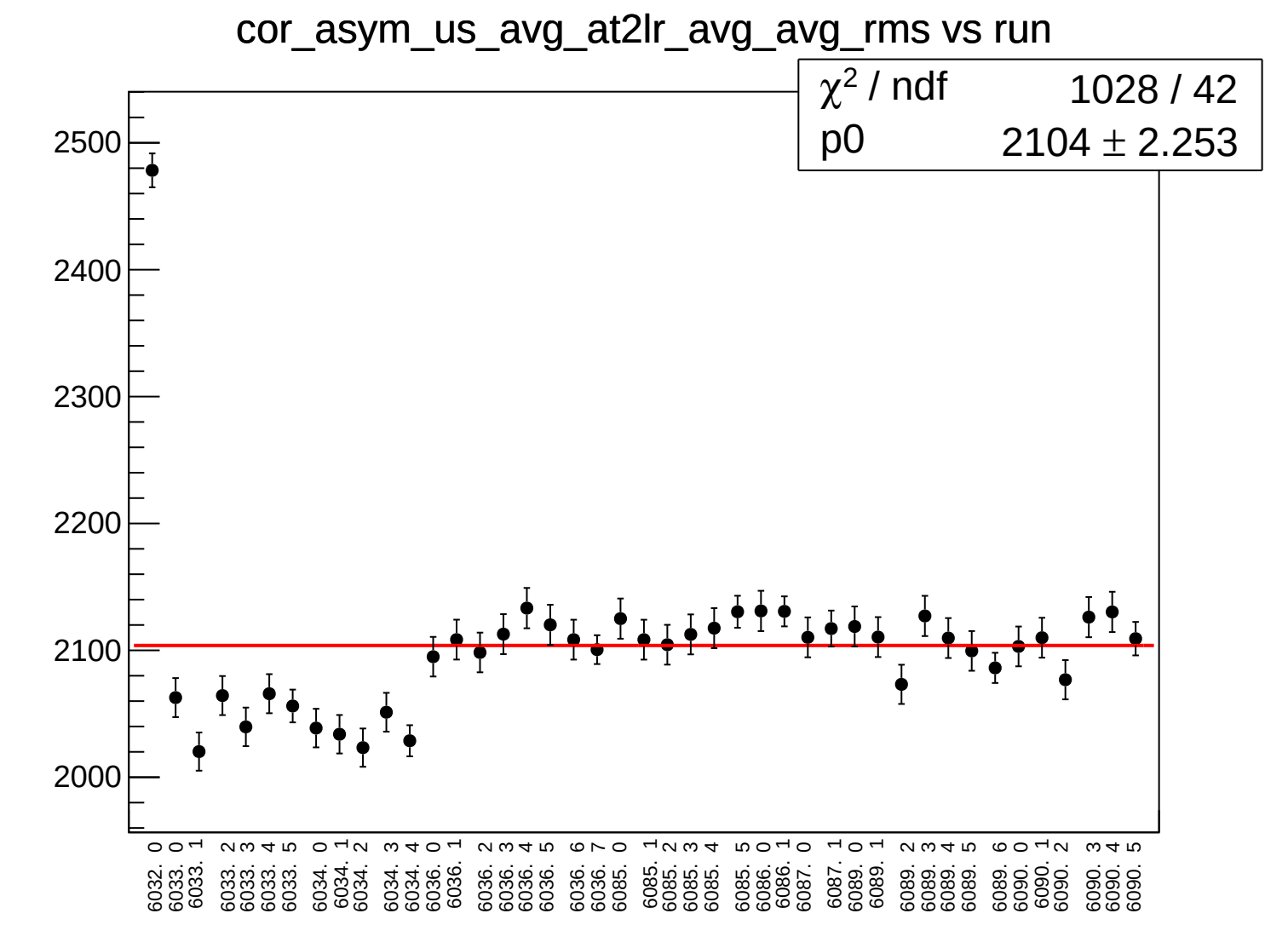

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 41.37 / 42
p0 345.4 ± 1.08e+04
pull
Entries 43
Mean −38.98
Std Dev 0

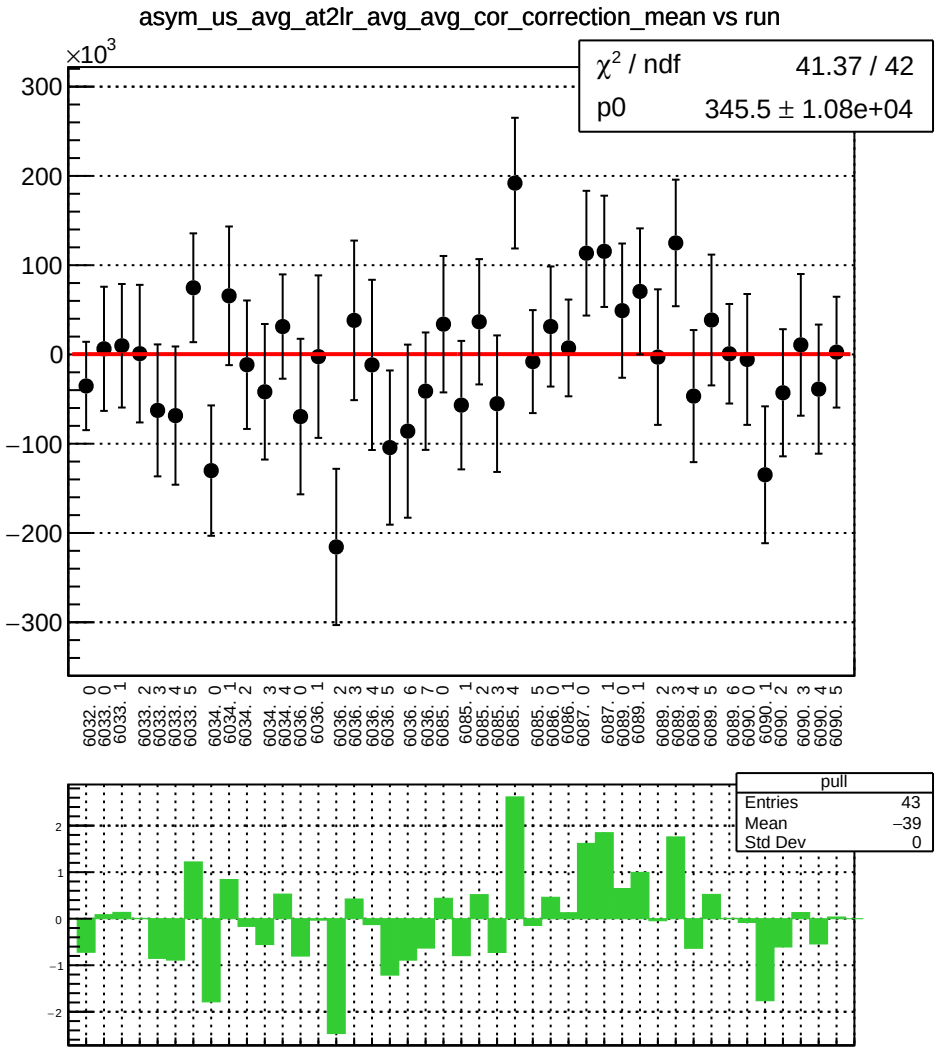

pull1D
Entries 43
Mean −0.03477
Std Dev 0.9803

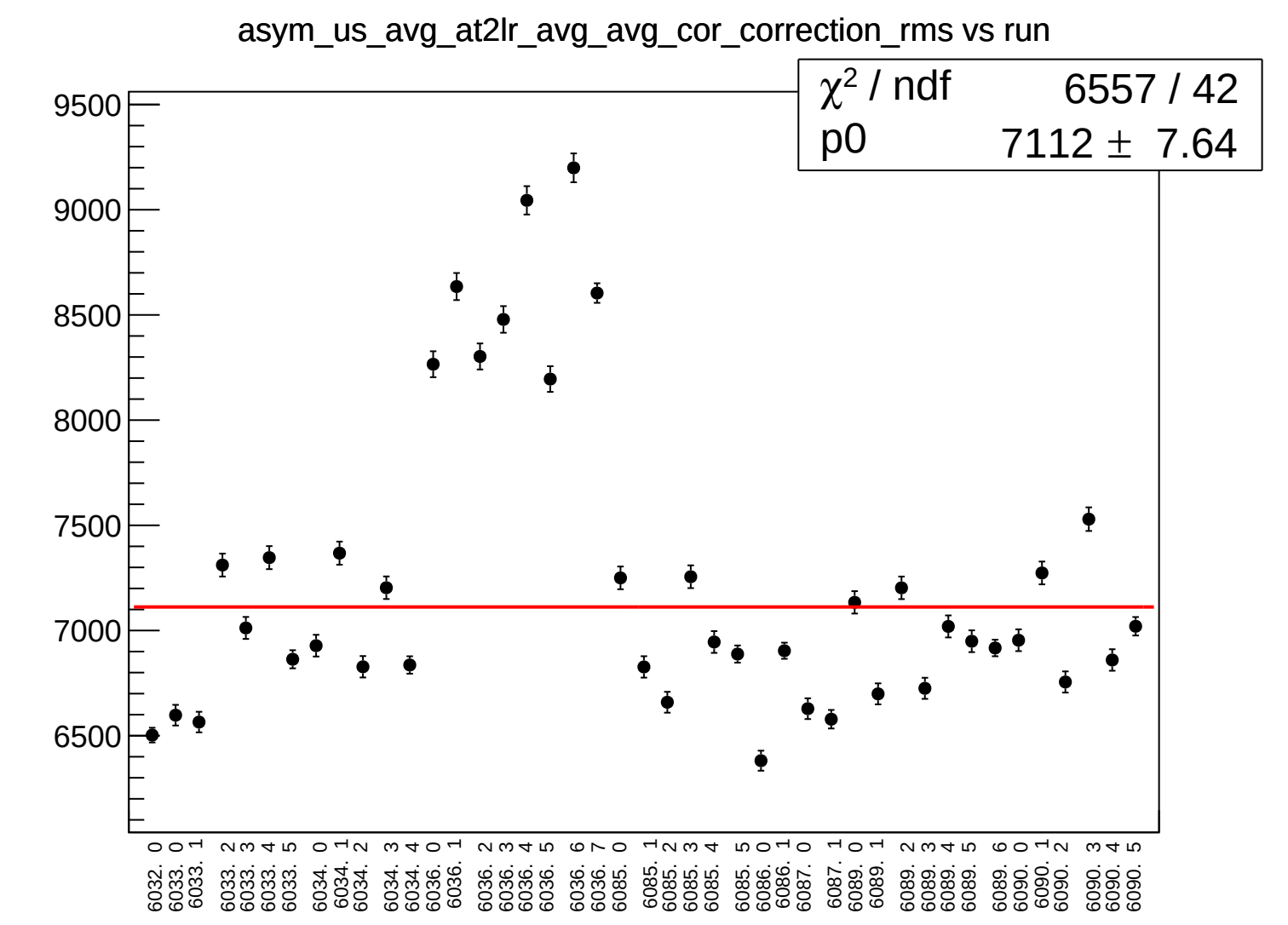

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6557 / 42
p0 7112 ± 7.64
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

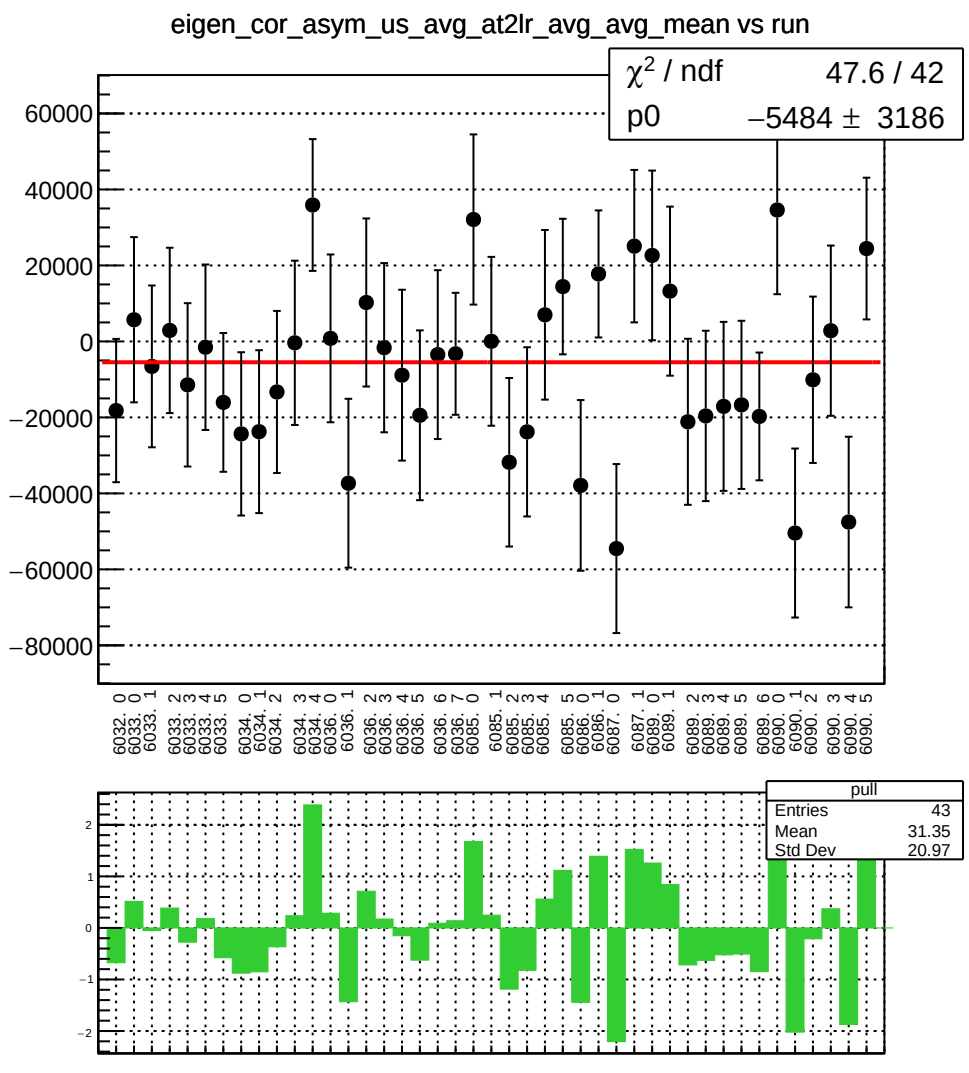

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 47.6 / 42
p0 −5484 ± 3186
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.35
Std Dev 20.97
2
1
0
−1
−2

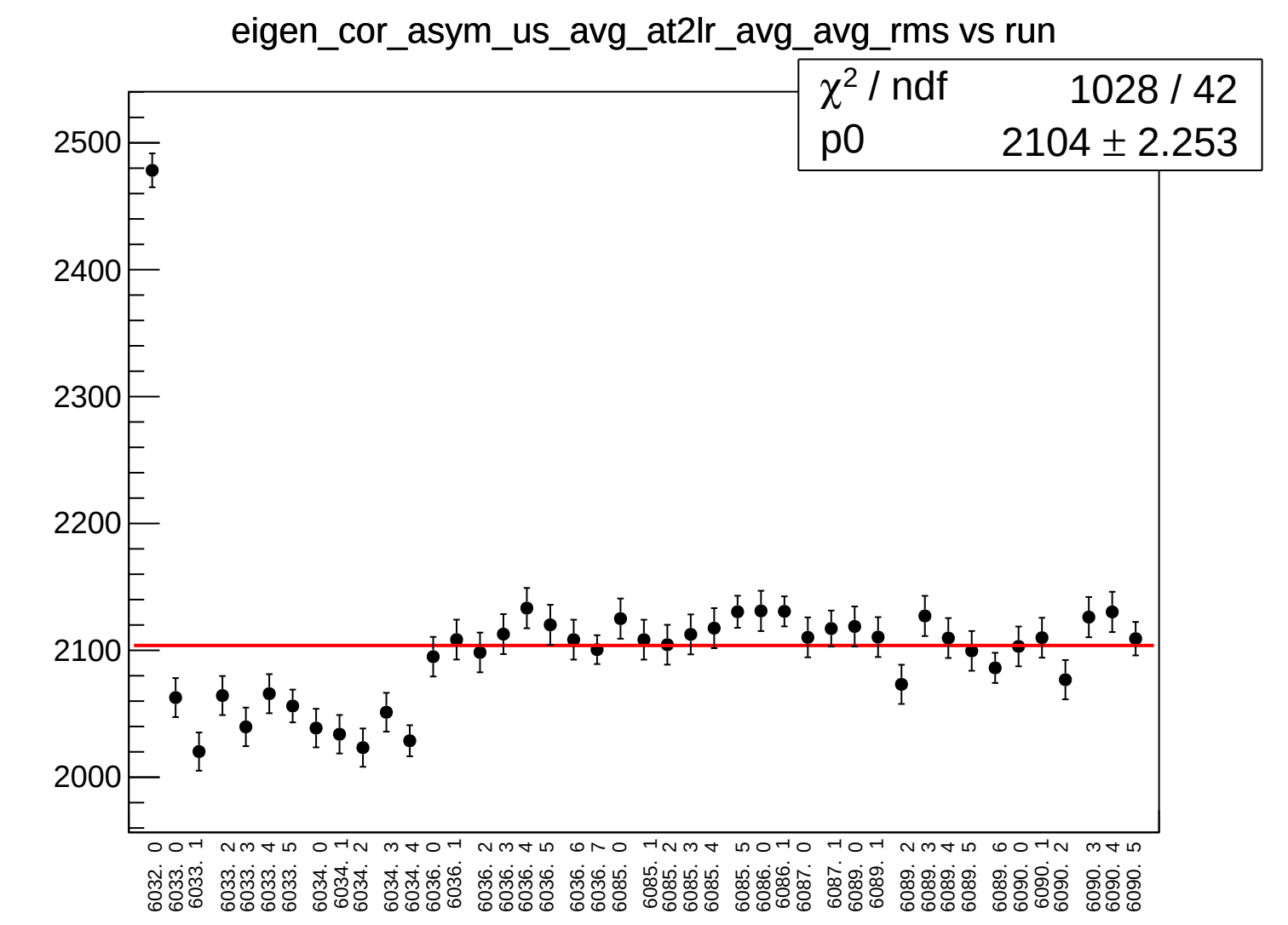

pull1D
Entries 43
Mean −0.03178
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

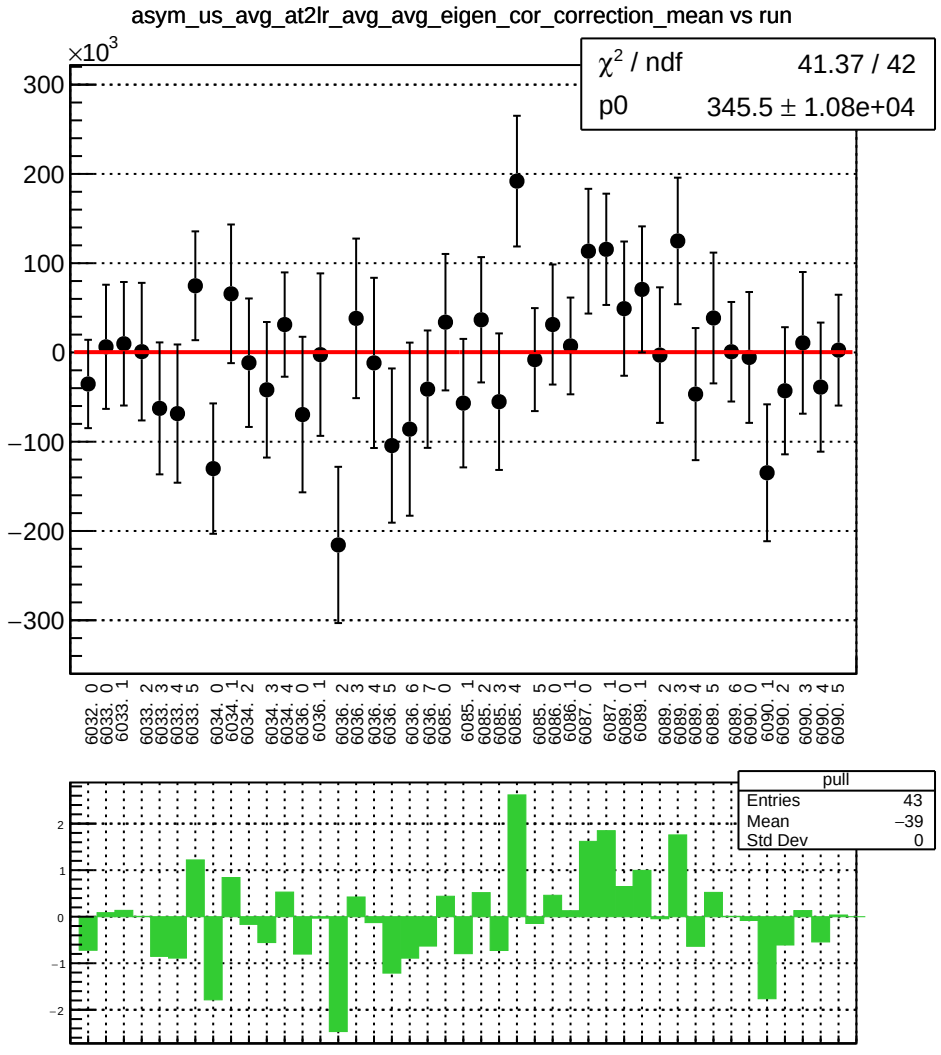

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1028 / 42
p0 2104 ± 2.253
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

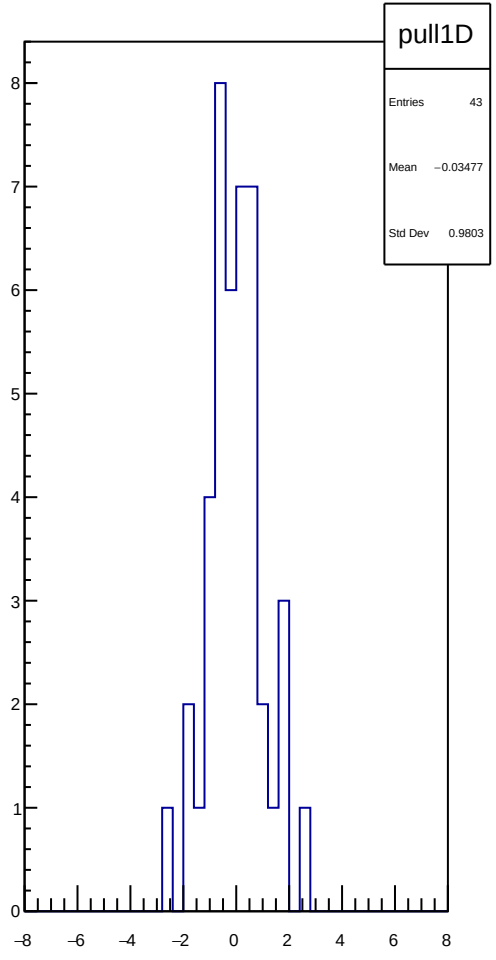

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 41.37 / 42
p0 345.5 ± 1.08e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03477
Std Dev 0.9803
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

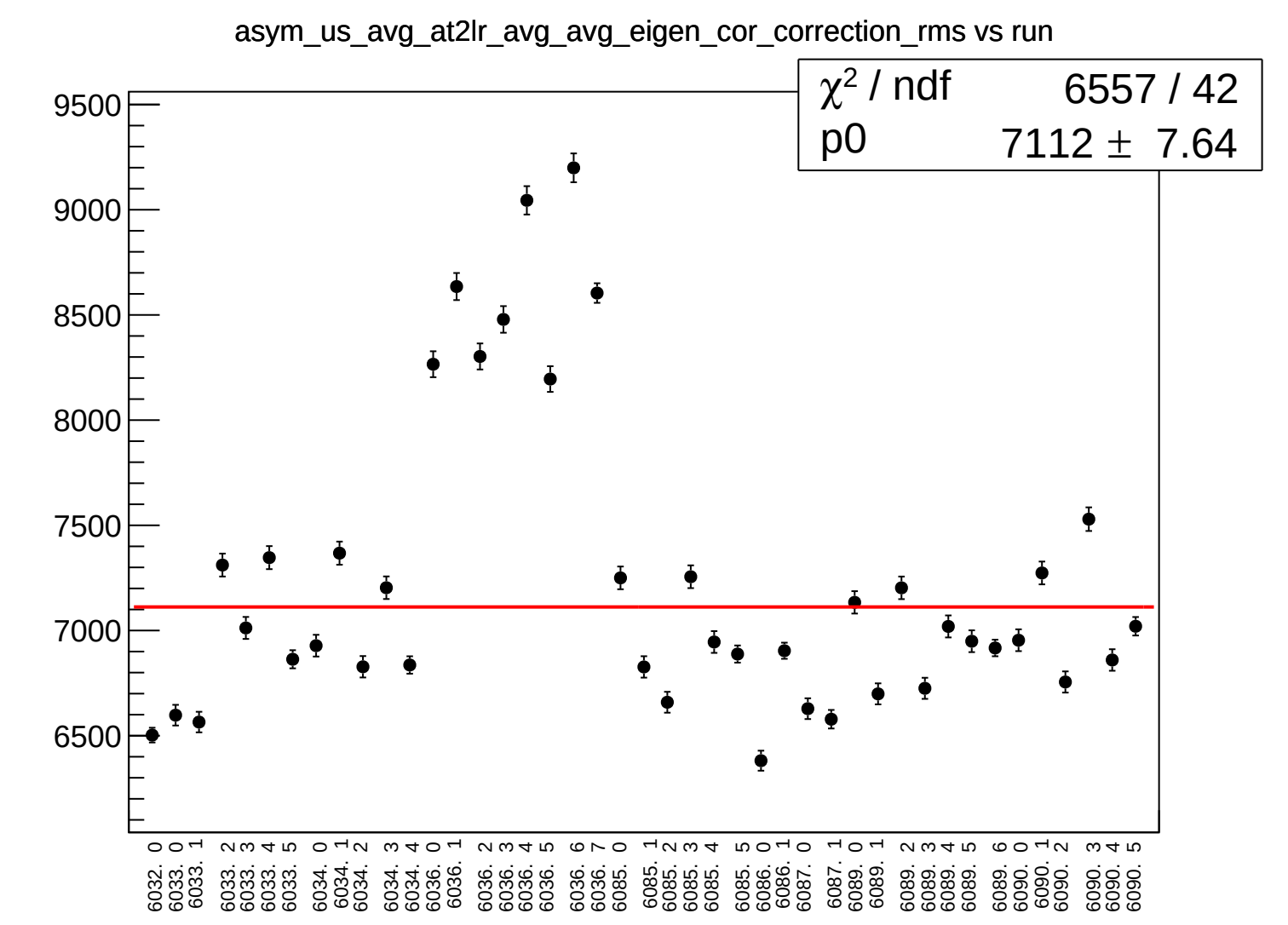

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6557 / 42
p0 7112 ± 7.64
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

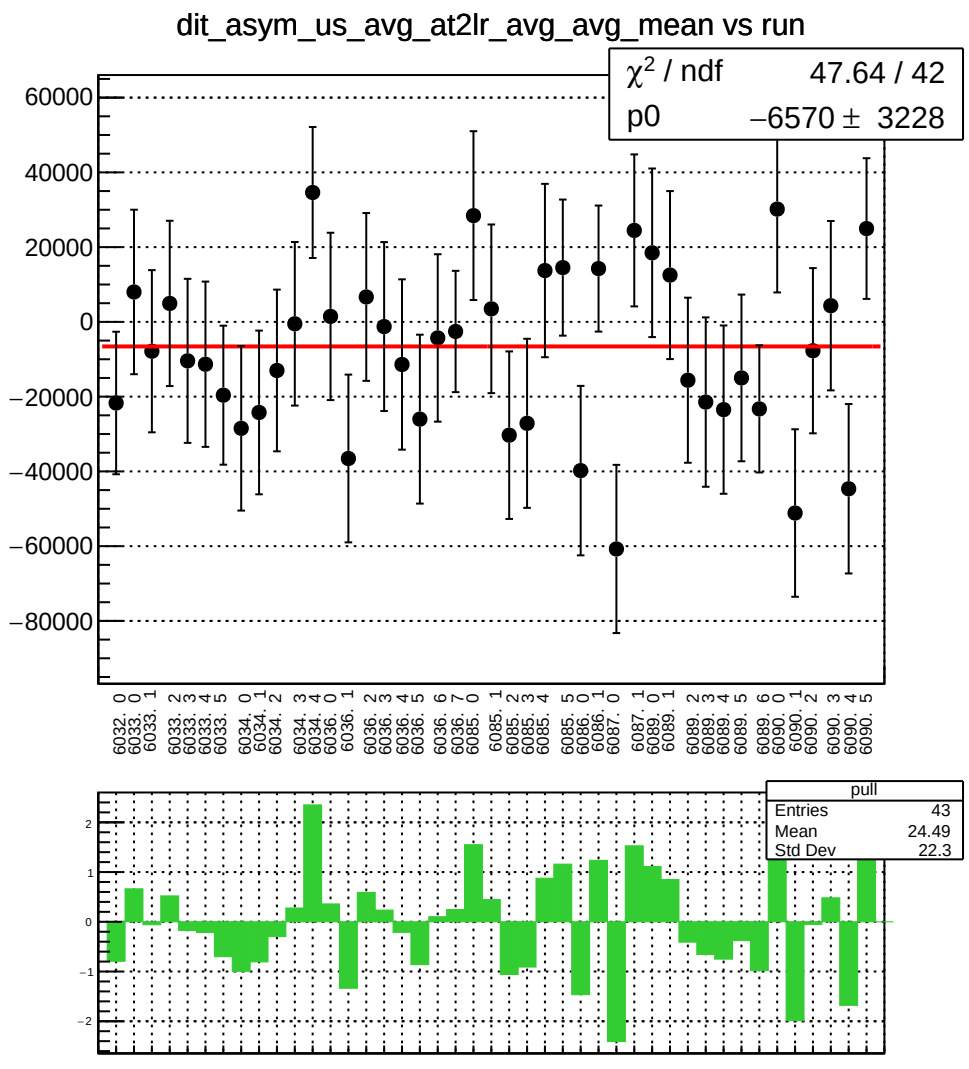

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 47.6 / 42
p0 −5484 ± 3186
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.35
Std Dev 20.97
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03178
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

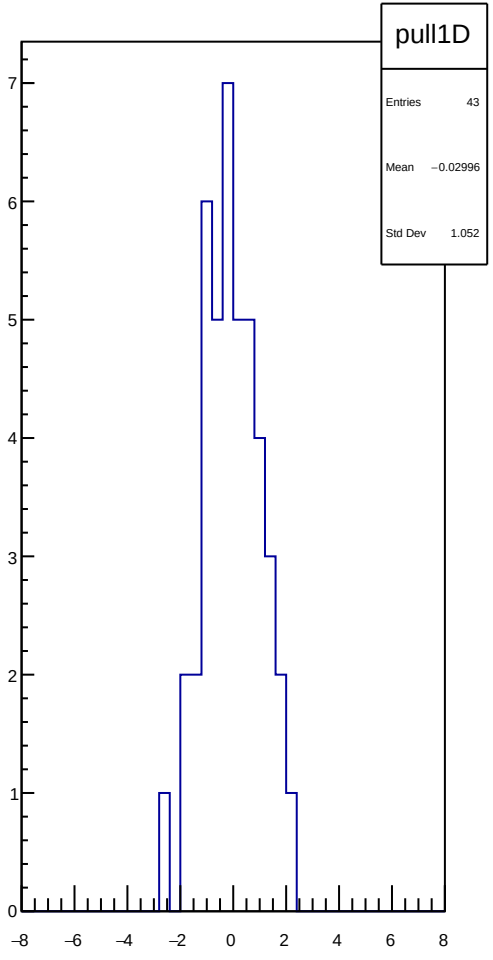

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1028 / 42
p0 2104 ± 2.253
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

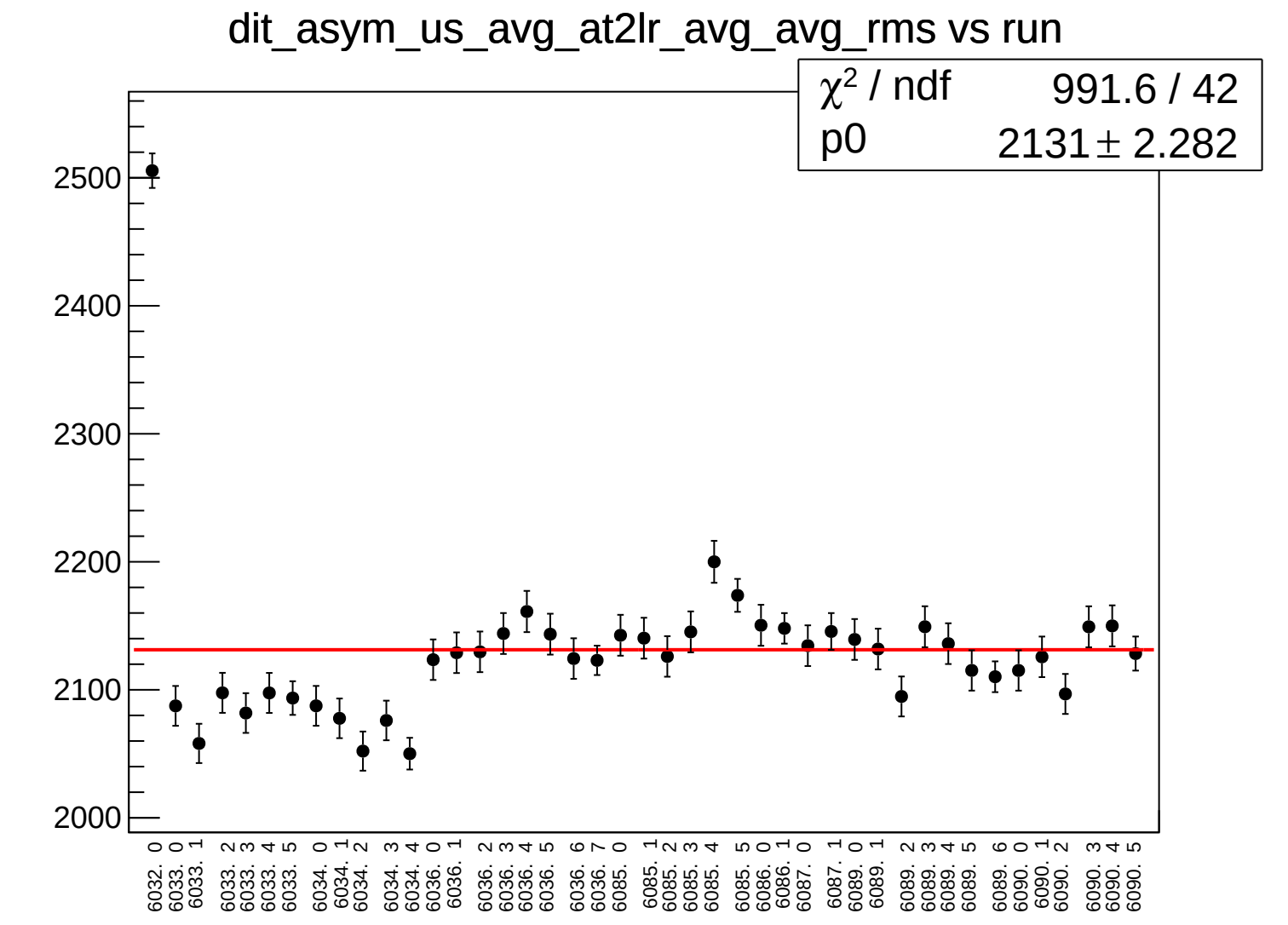

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.37 / 42
p0 345.5 ± 1.08e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −39
Std Dev 0
2
1
0
−1
−2

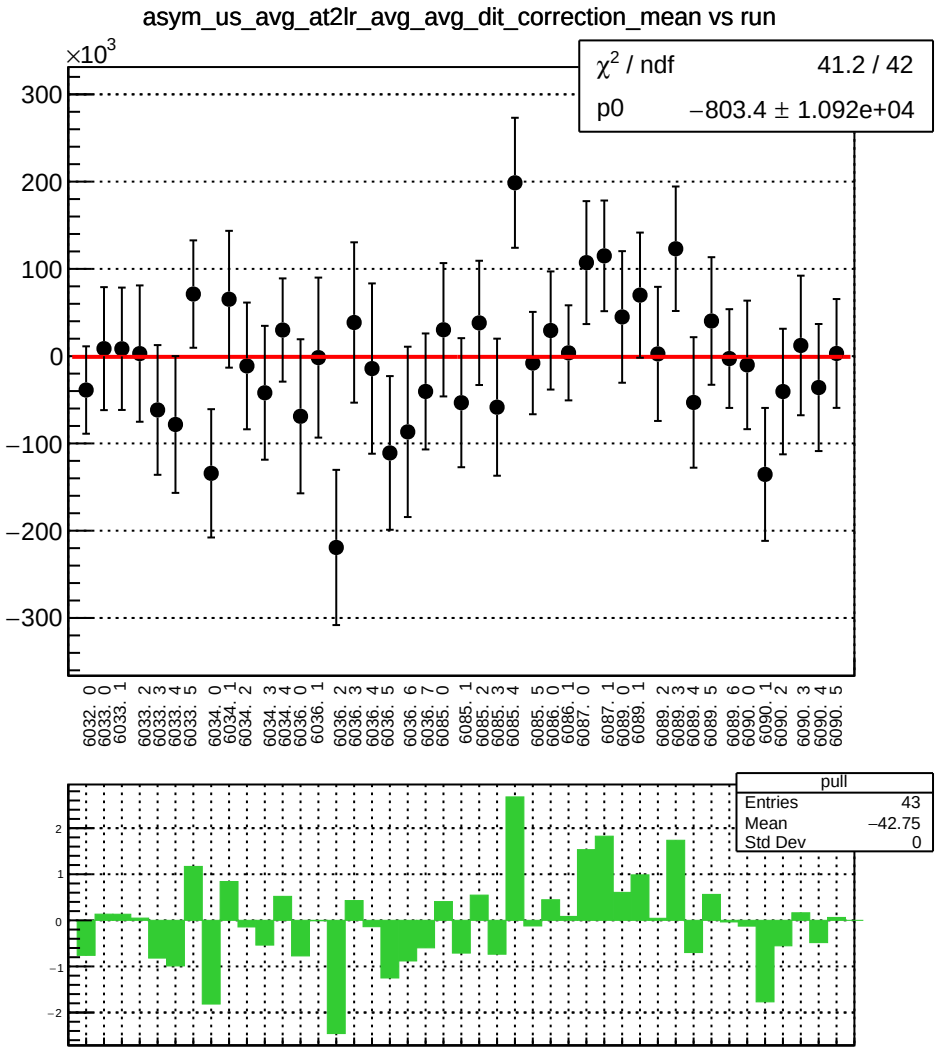

pull1D
Entries 43
Mean −0.03477
Std Dev 0.9803
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

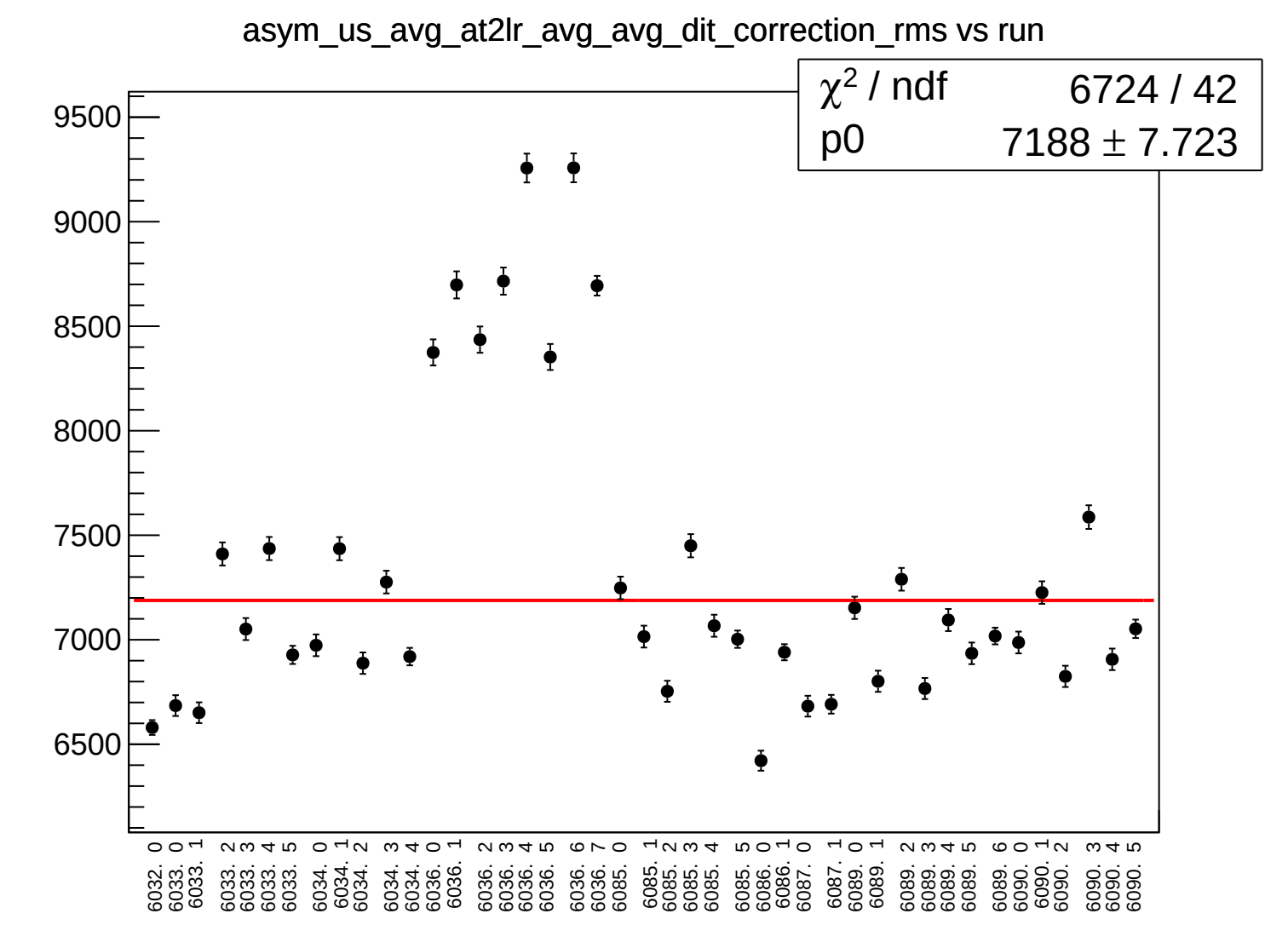

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6557 / 42
p0 7112 ± 7.64
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

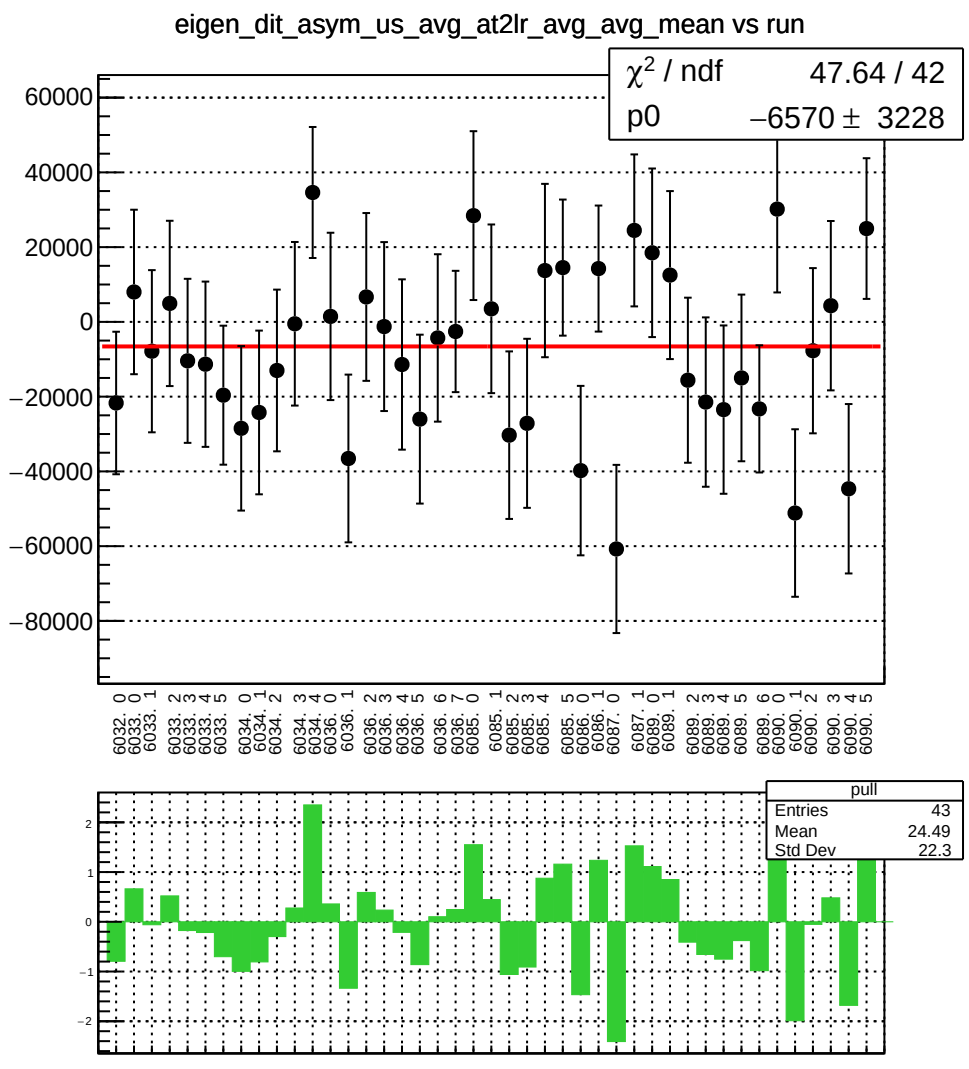

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 47.64 / 42
p0 −6570 ± 3228
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.49
Std Dev 22.3
2
1
0
−1
−2

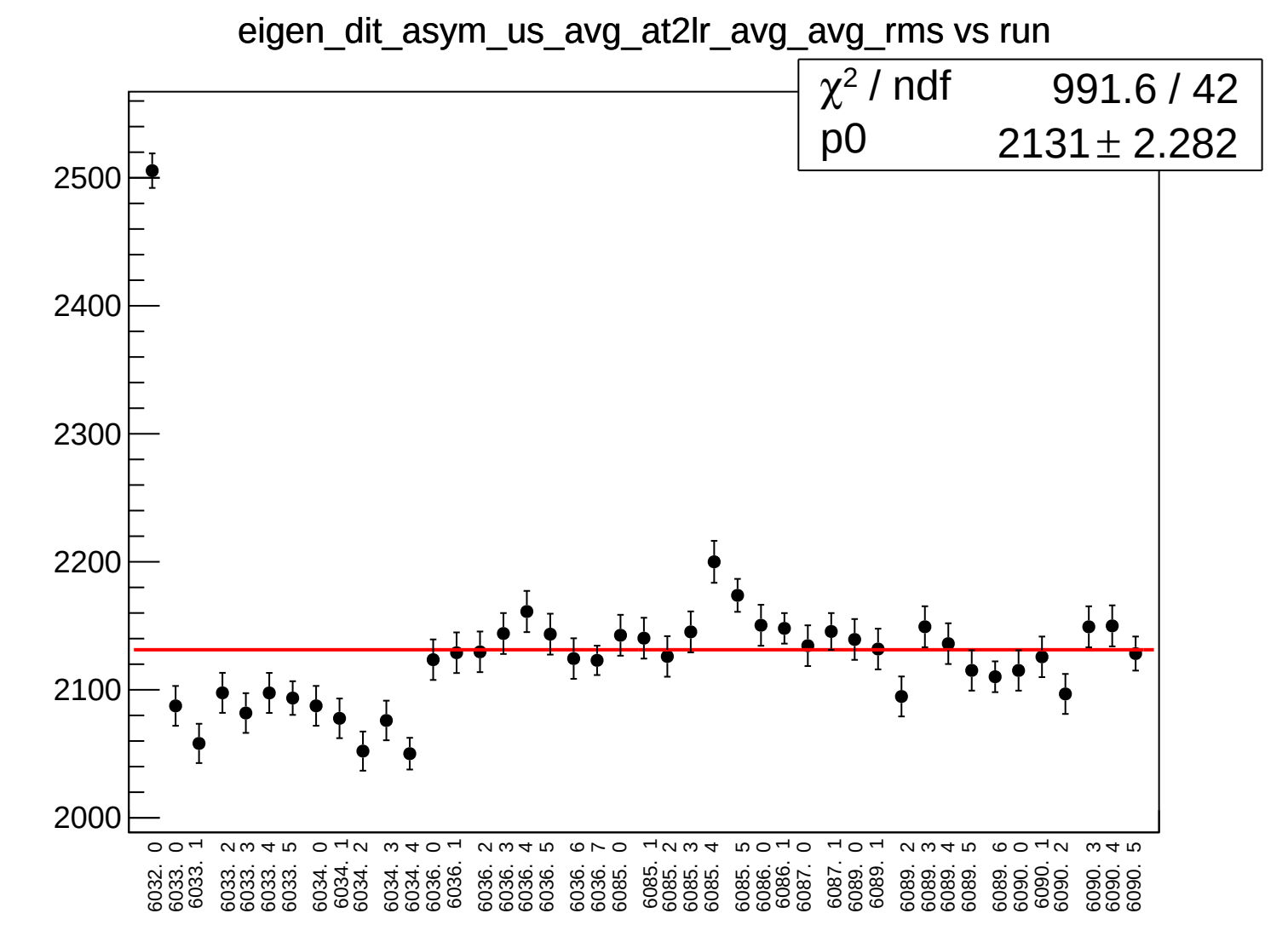

pull1D
Entries 43
Mean −0.02996
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

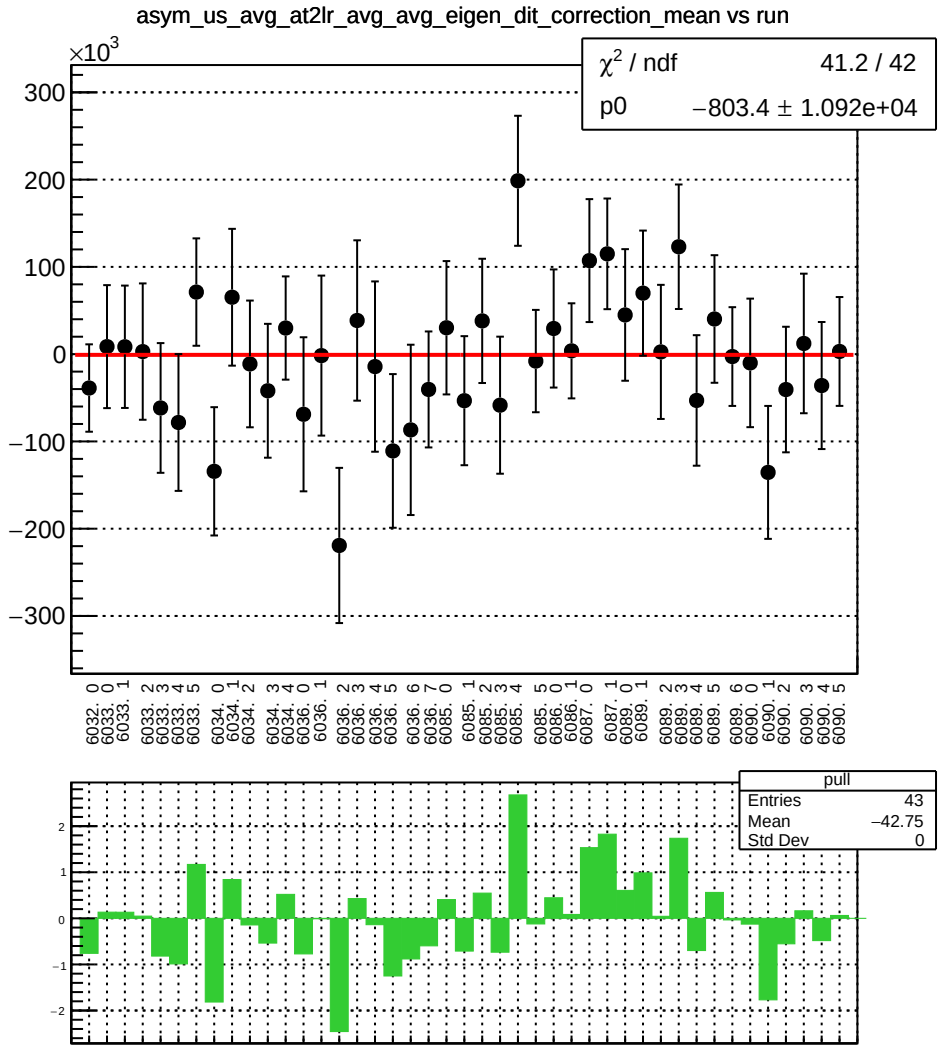

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 991.6 / 42
p0 2131 ± 2.282
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

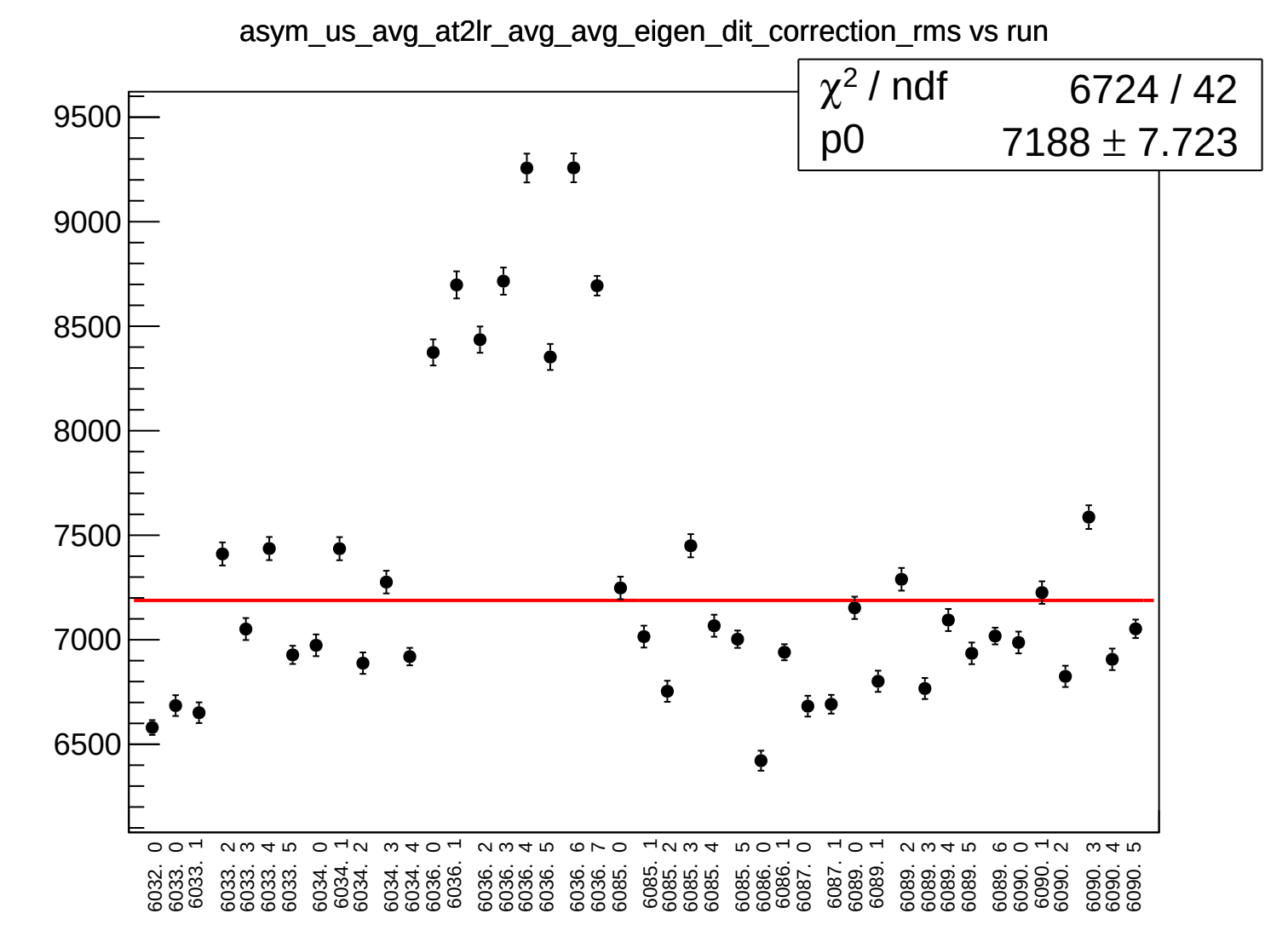

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.2 / 42
p0 −803.4 ± 1.092e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −42.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03334
Std Dev 0.9783
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

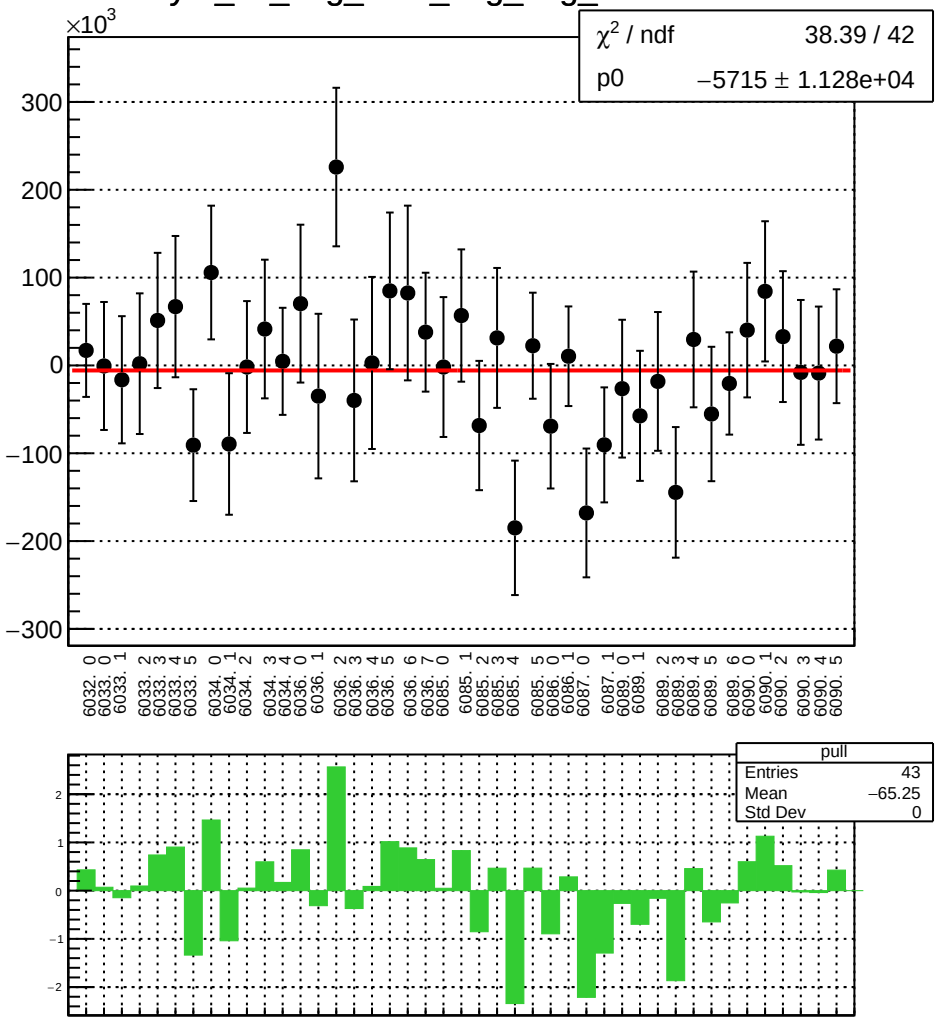

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 6724 / 42
p0 7188 ± 7.723
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

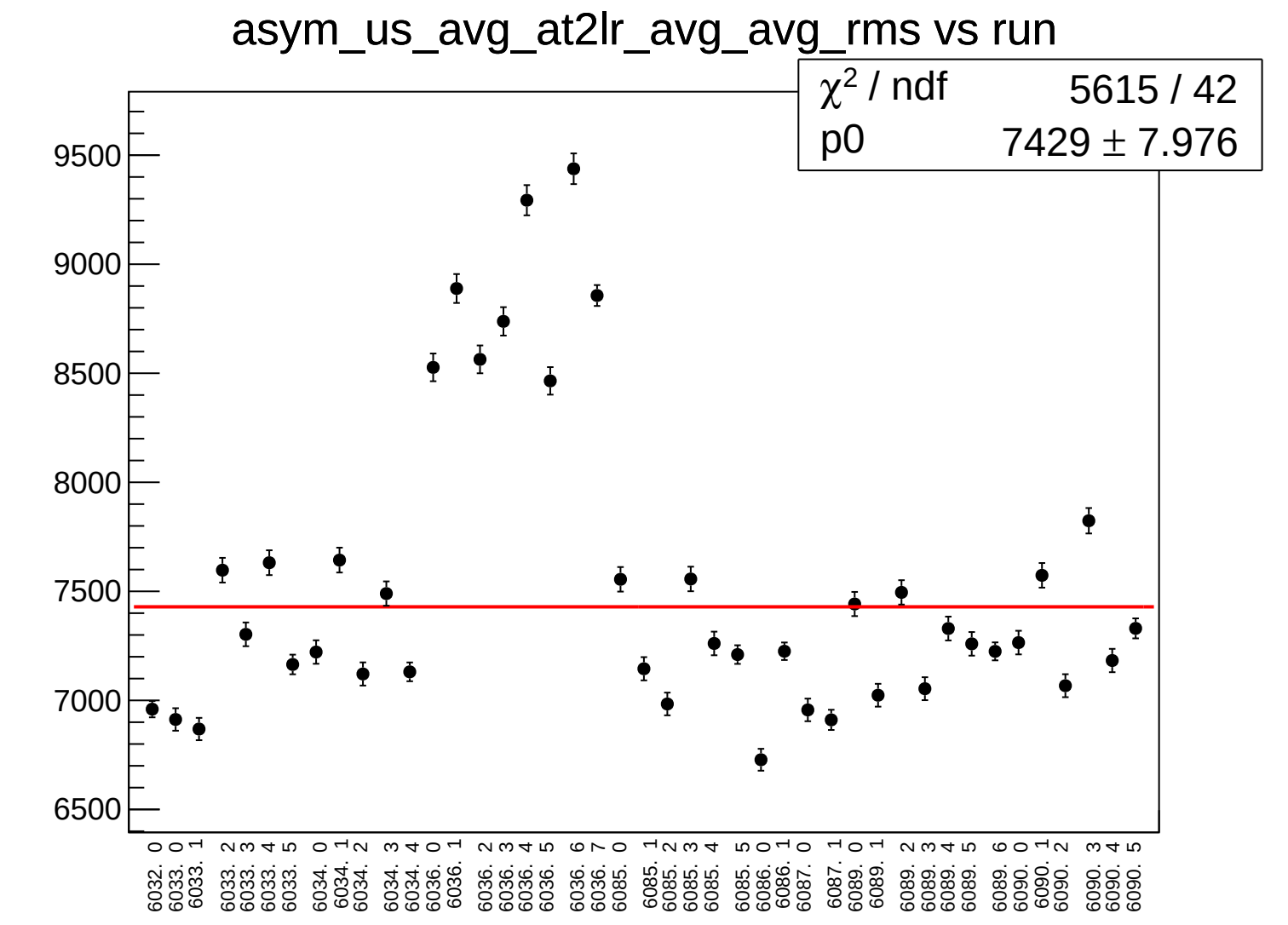

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 47.64 / 42
p0 −6570 ± 3228
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.49
Std Dev 22.3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02996
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

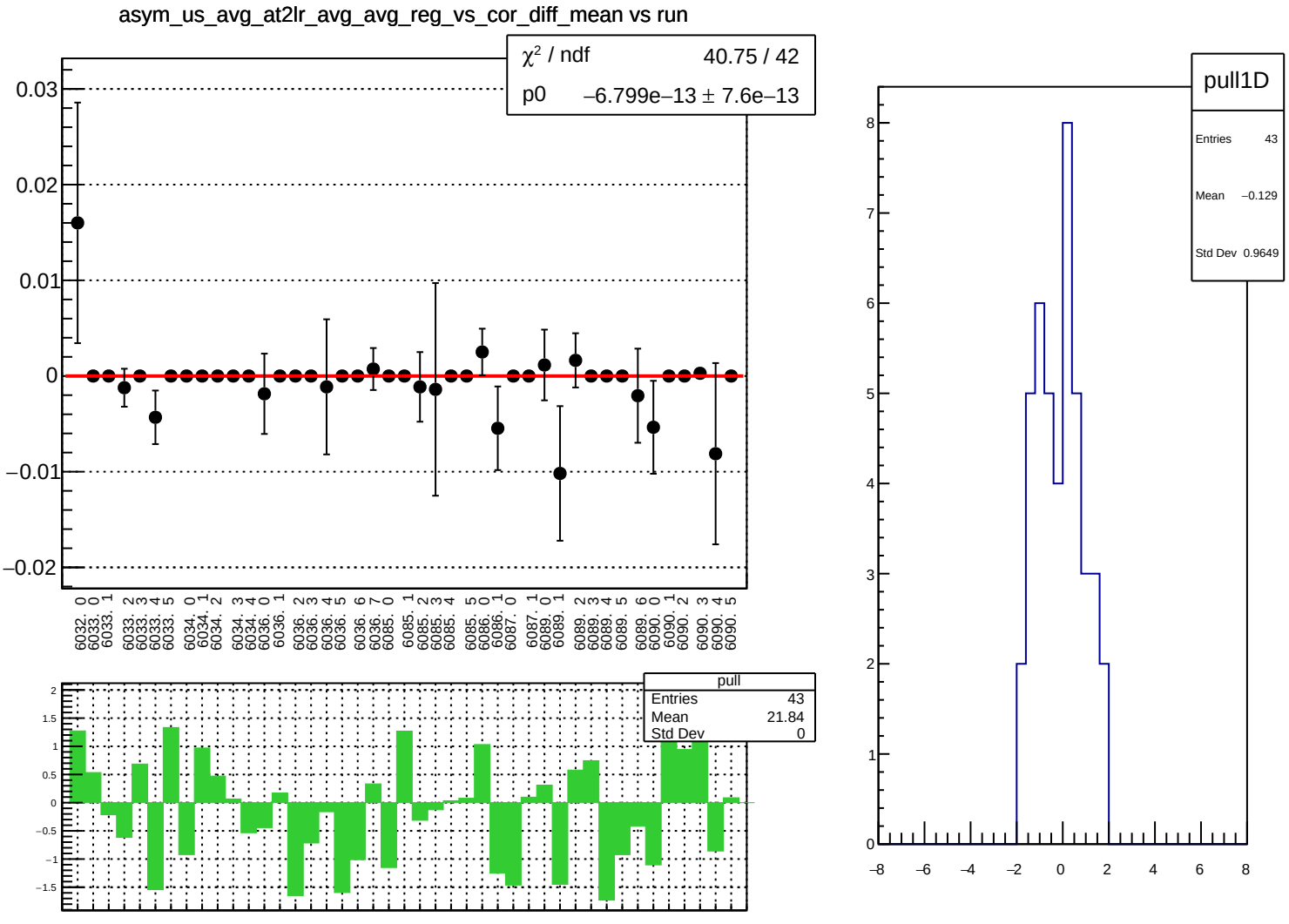

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 991.6 / 42
p0 2131 ± 2.282
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

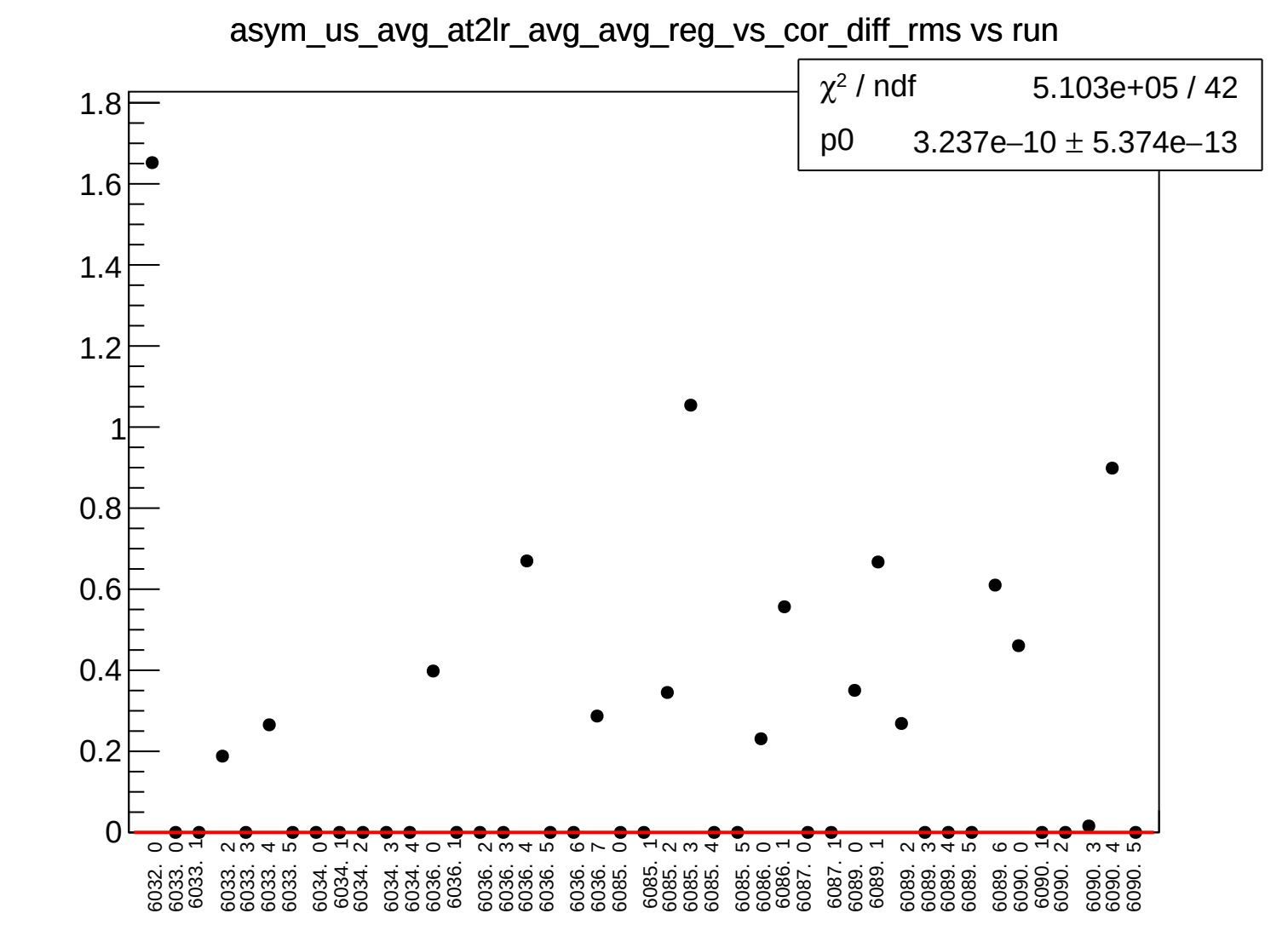

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.2 / 42
p0 −803.4 ± 1.092e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −42.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03334
Std Dev 0.9783
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

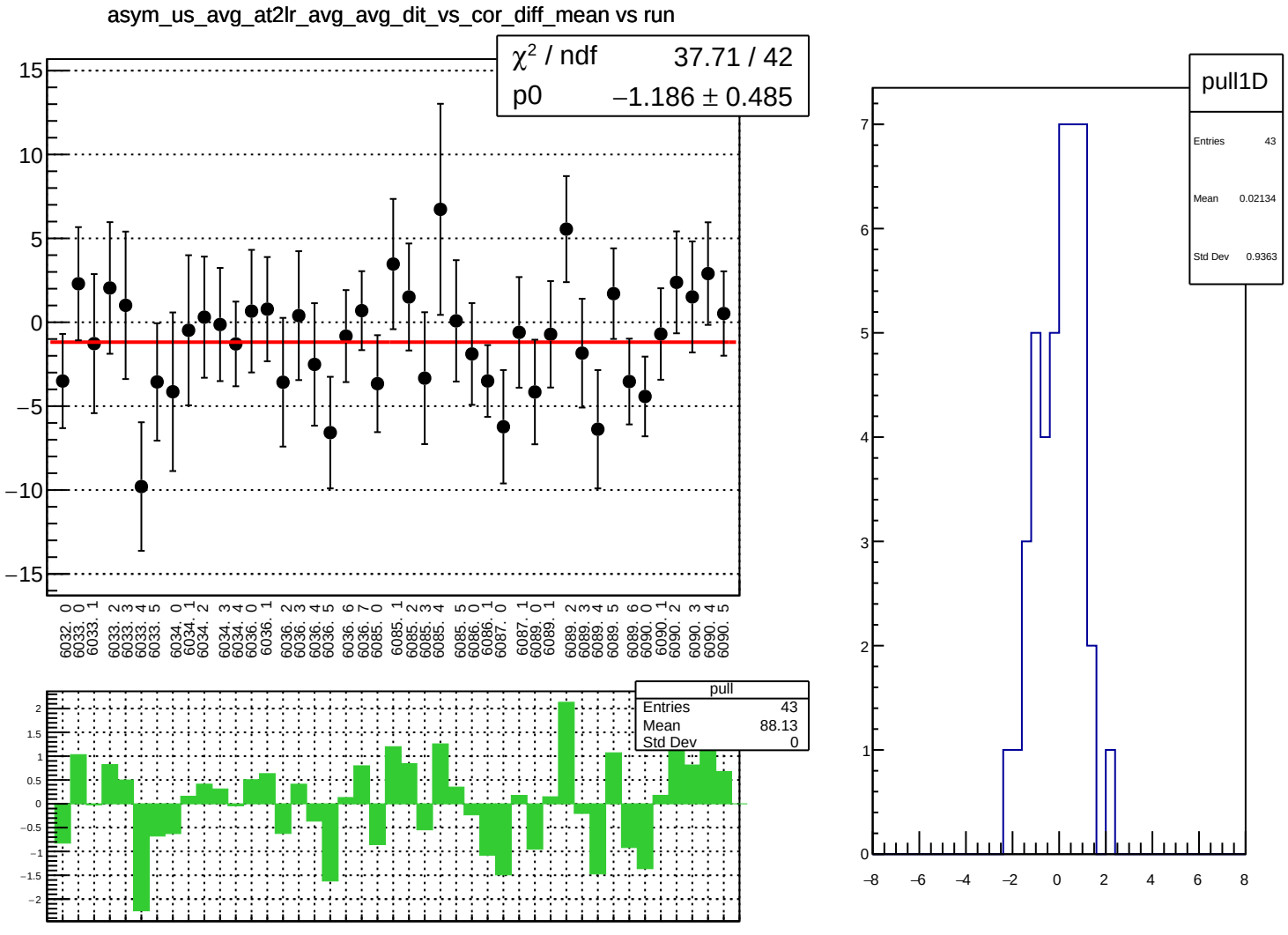

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6724 / 42
p0 7188 ± 7.723
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

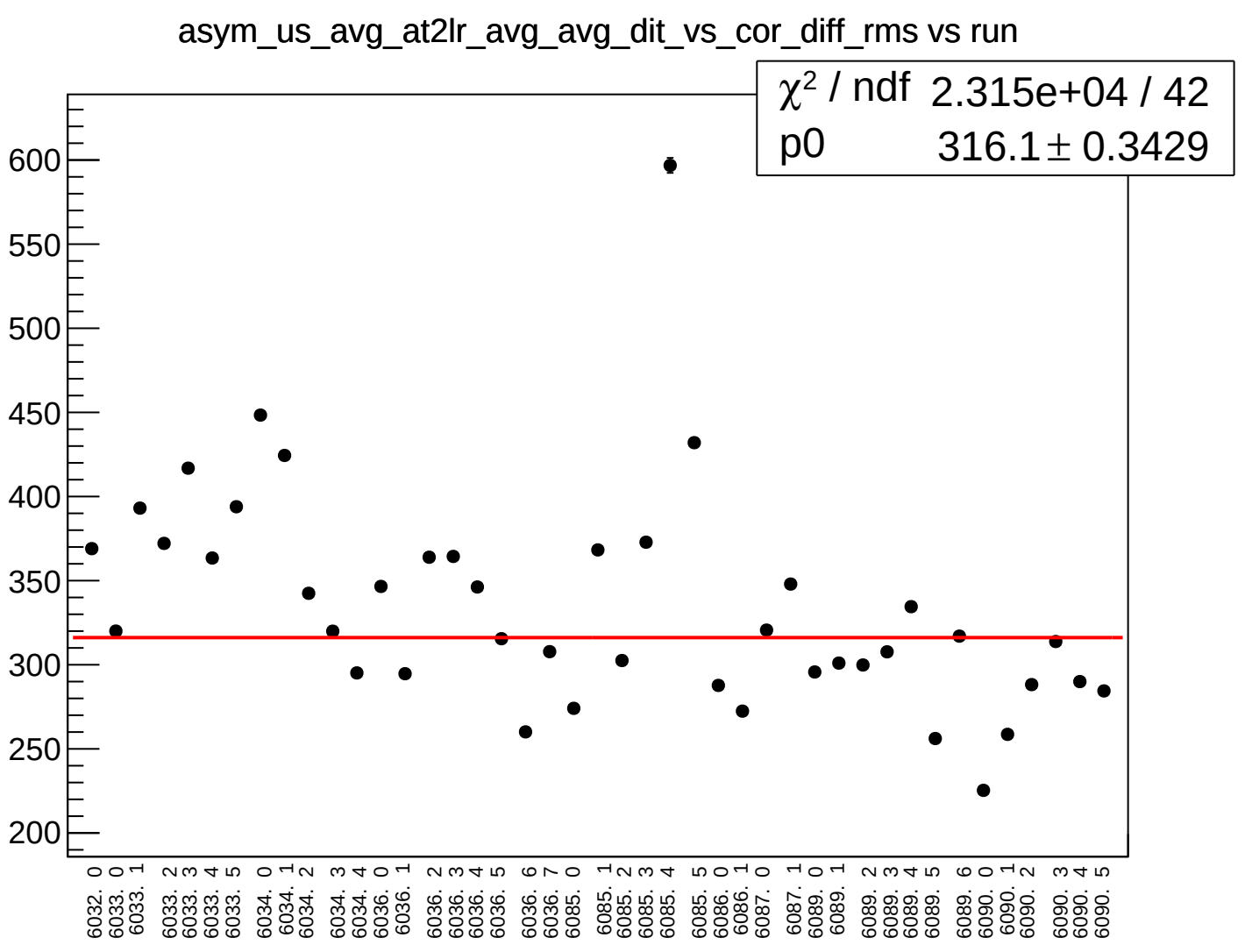

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 38.39 / 42
p0 −5715 ± 1.128e+04
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −65.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02414
Std Dev 0.9446
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

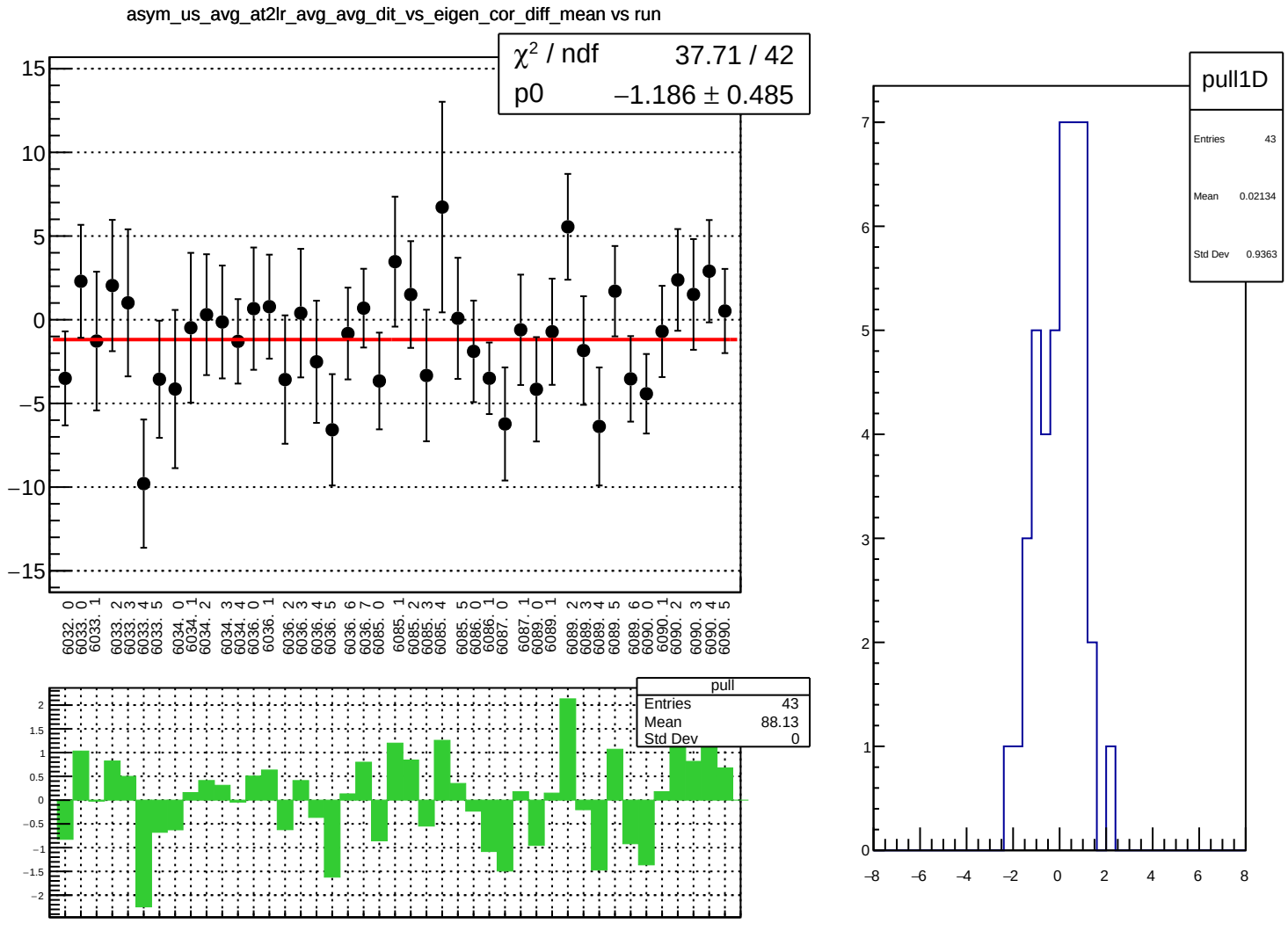

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5615 / 42
p0 7429 ± 7.976
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

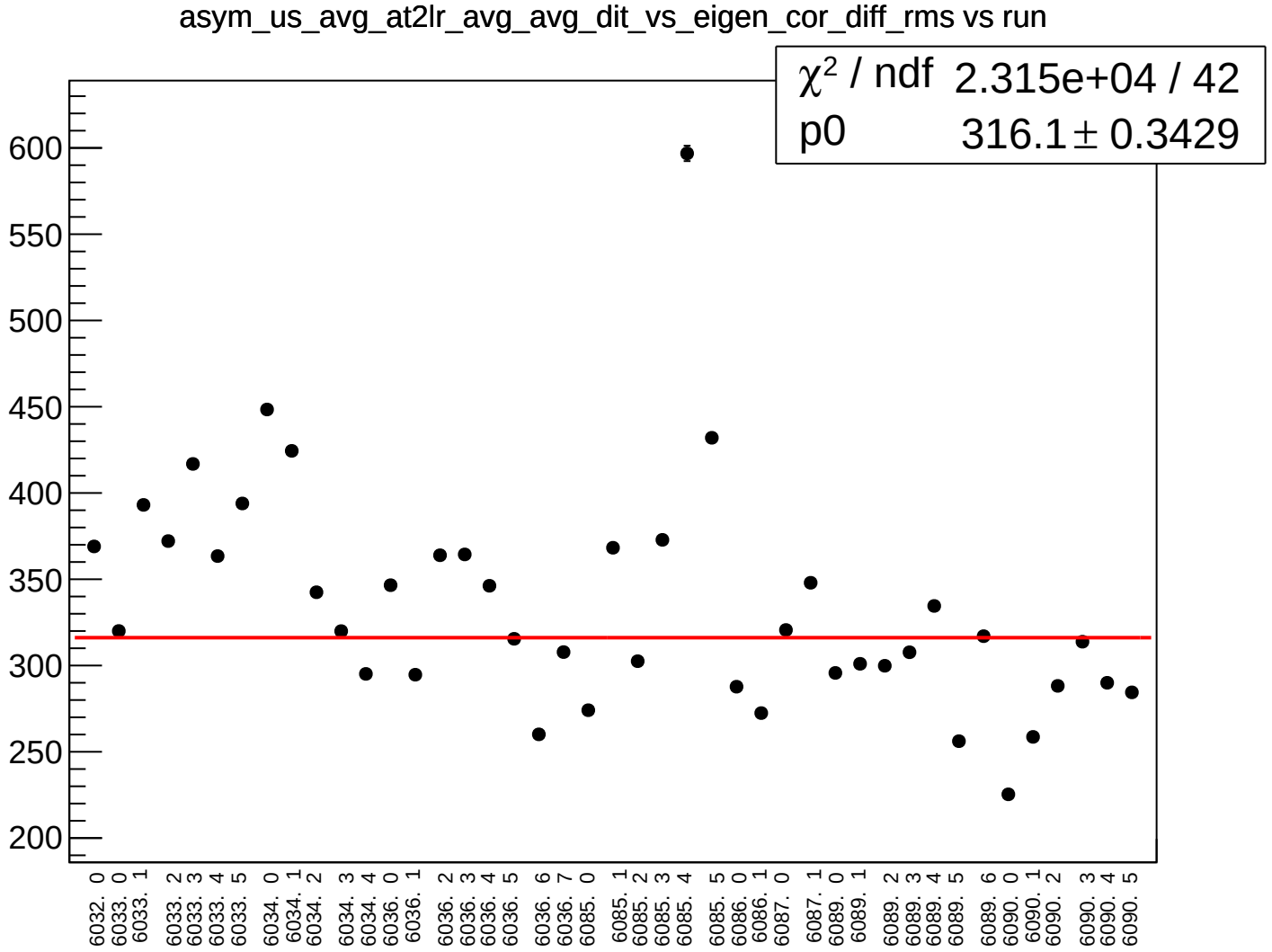

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.75 / 42
p0 −6.799e−13 ± 7.6e−13
0.03
0.02
0.01
0
−0.01
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.129
Std Dev 0.9649
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

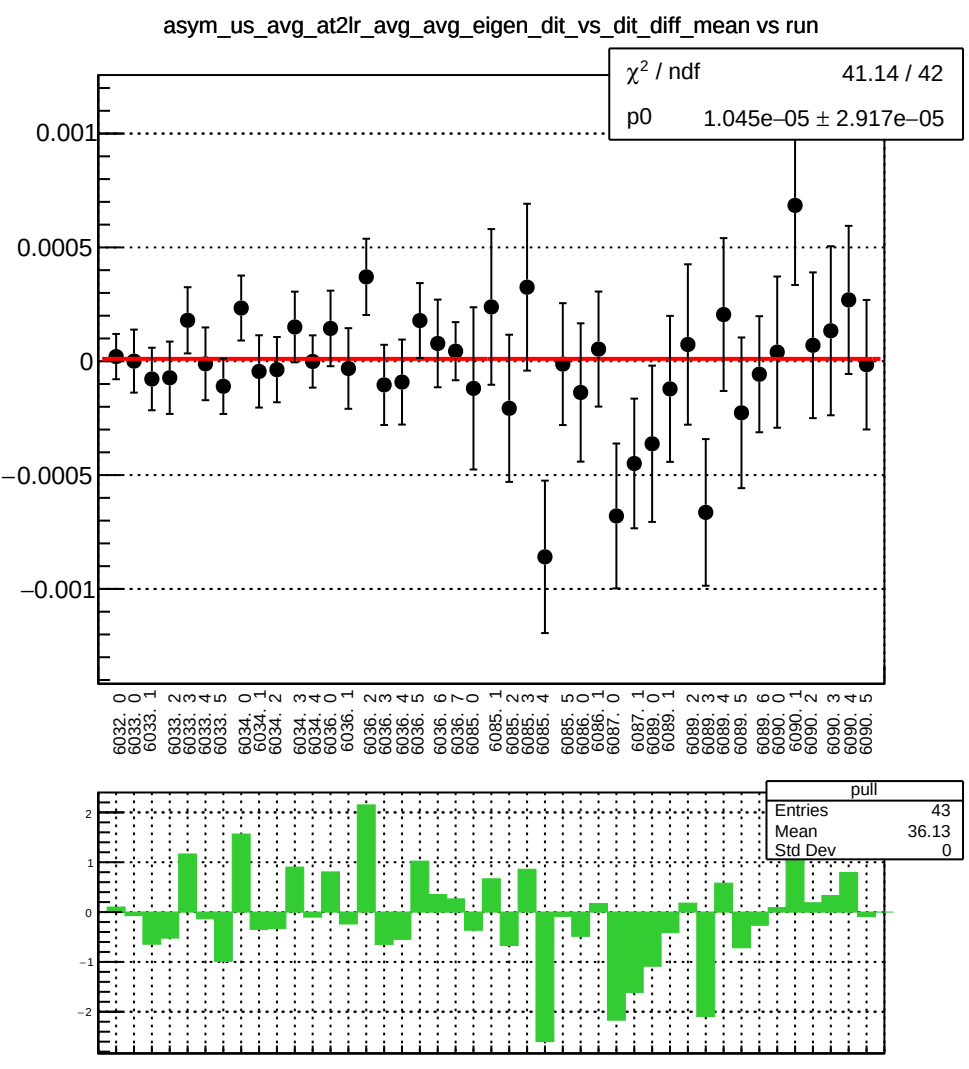

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.103e+05 / 42
p0 3.237e−10 ± 5.374e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

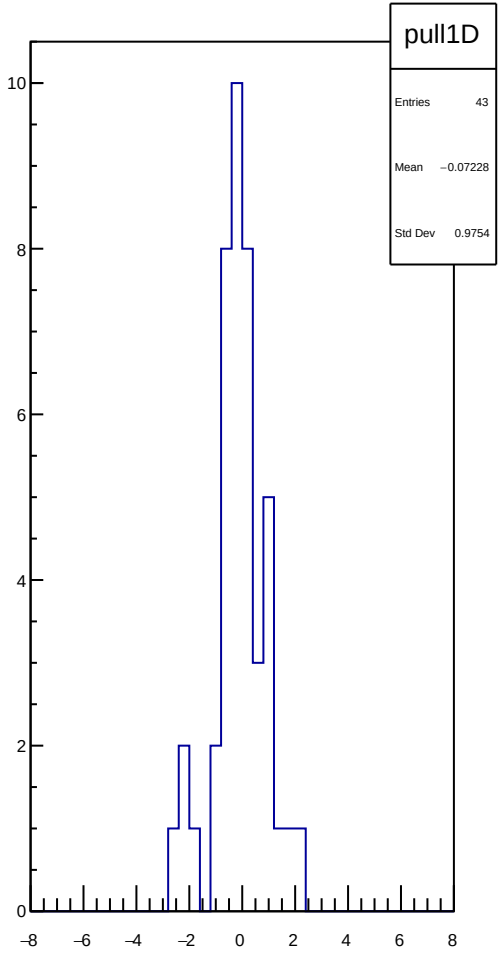

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.71 / 42
p0 −1.186 ± 0.485
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 88.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02134
Std Dev 0.9363
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

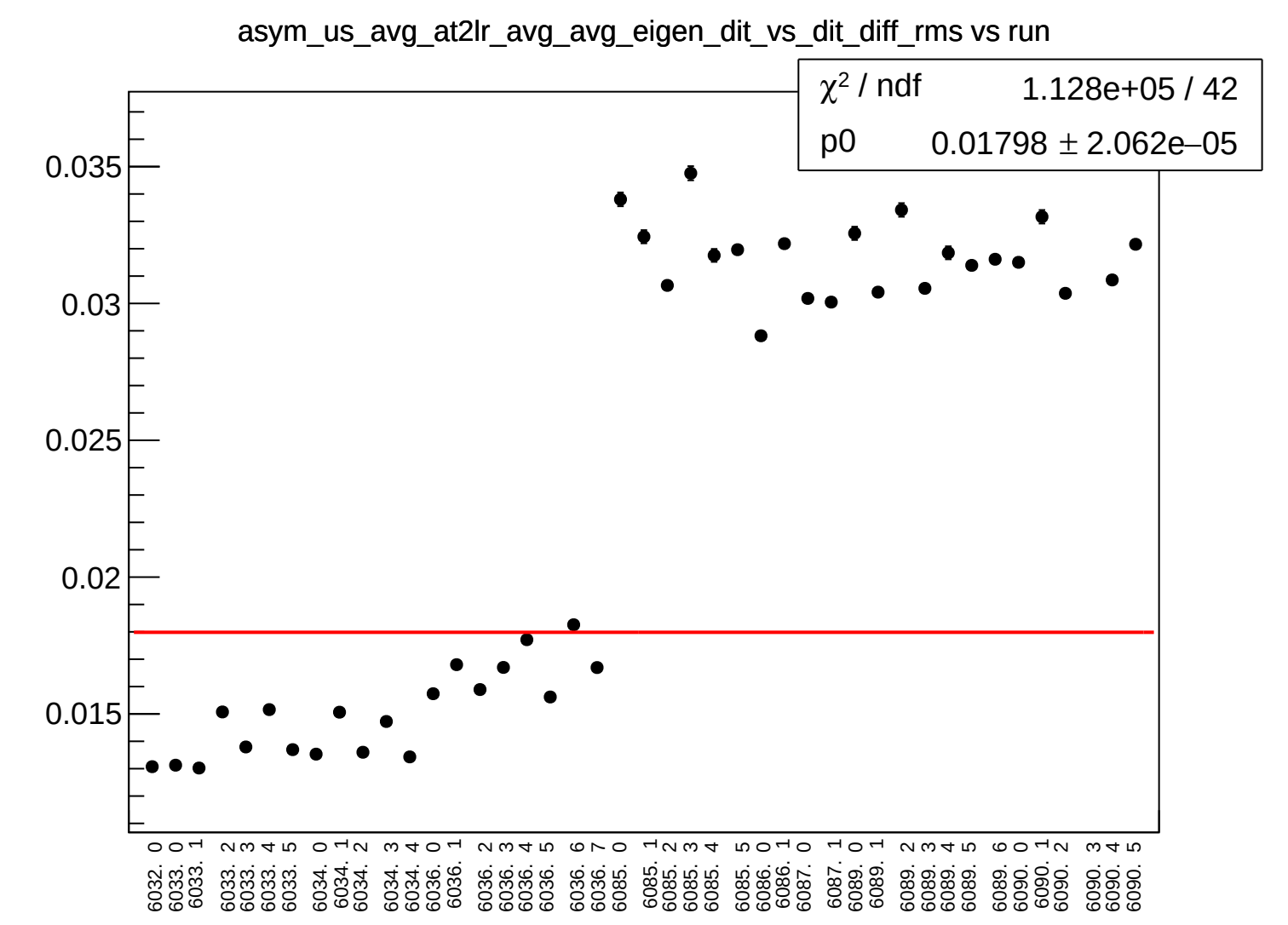

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 42
p0 316.1 ± 0.3429
600
550
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

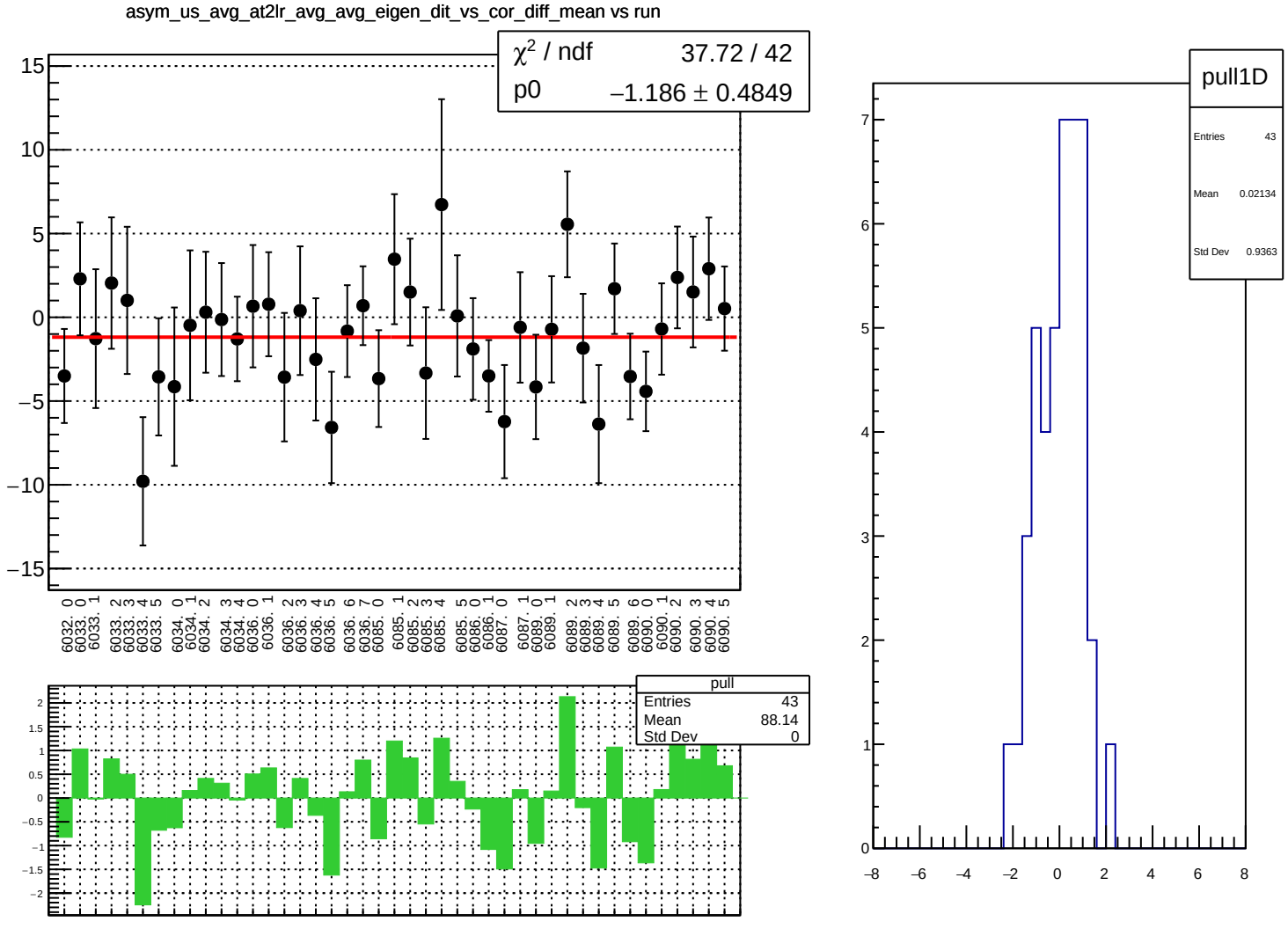

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.71 / 42
p0 −1.186 ± 0.485
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 88.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02134
Std Dev 0.9363
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

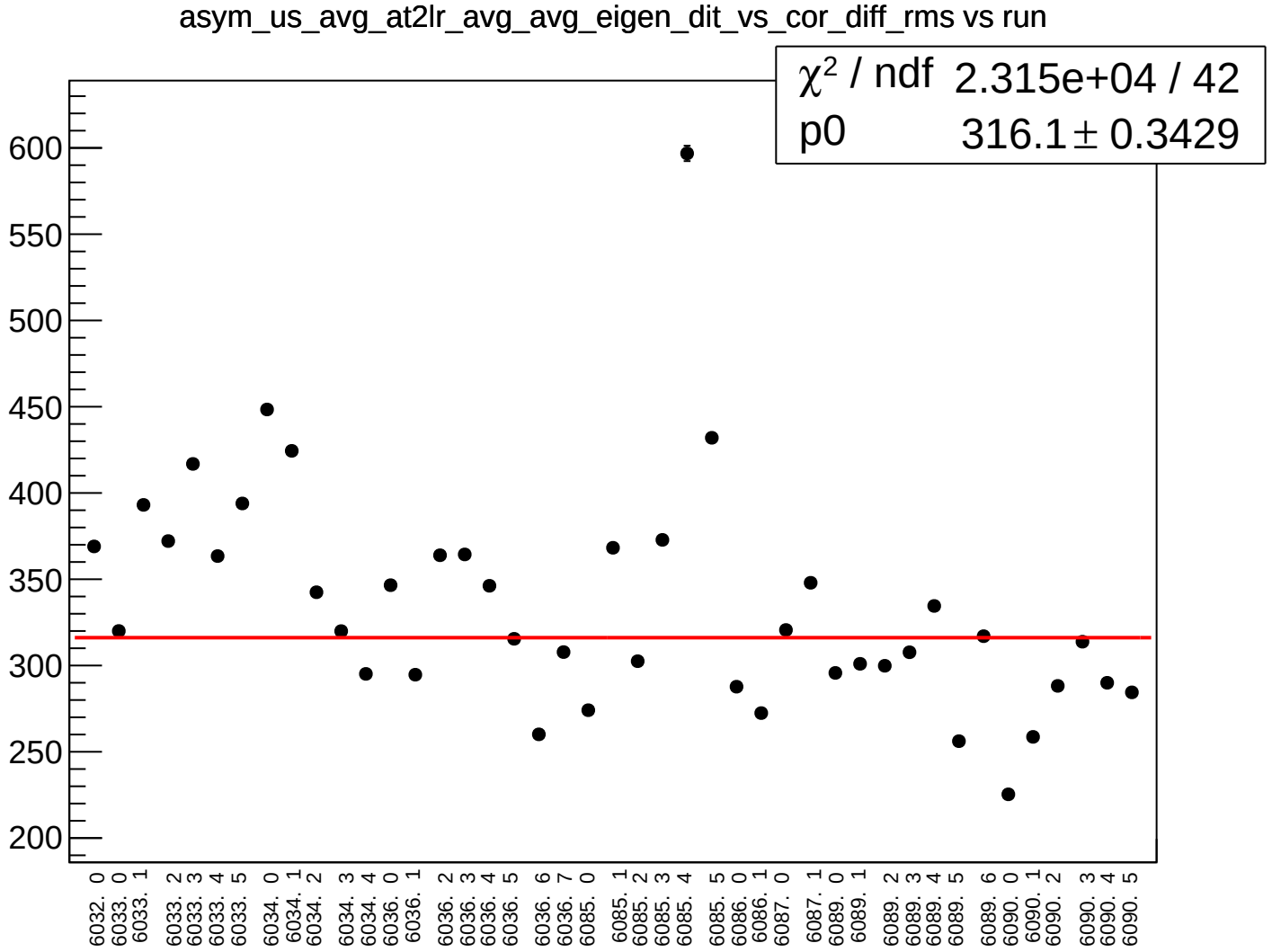

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 42
p0 316.1 ± 0.3429
600
550
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

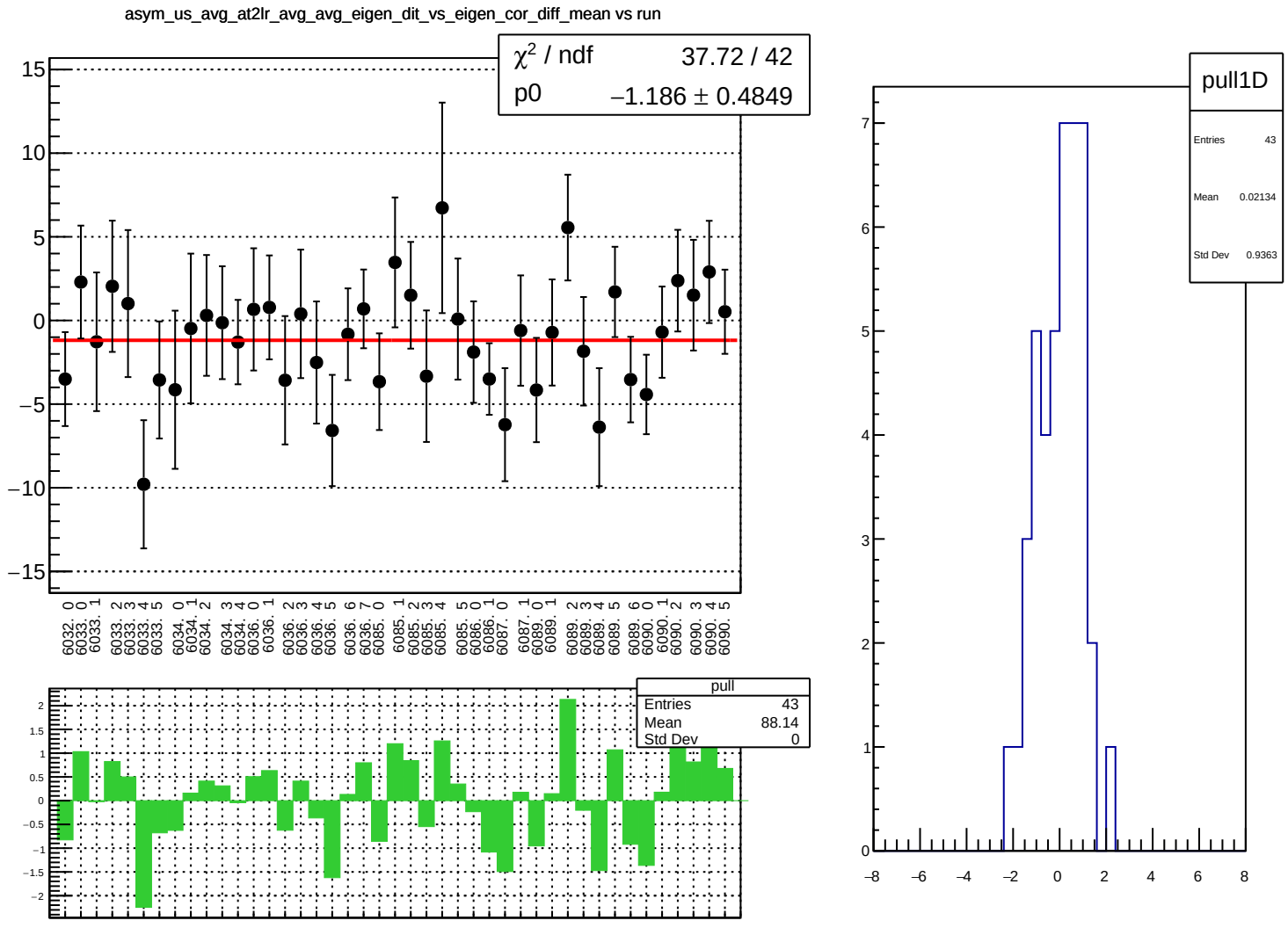

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 41.14 / 42
p0 1.045e−05 ± 2.917e−05
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.13
Std Dev 0
2
1
0
−1
−2

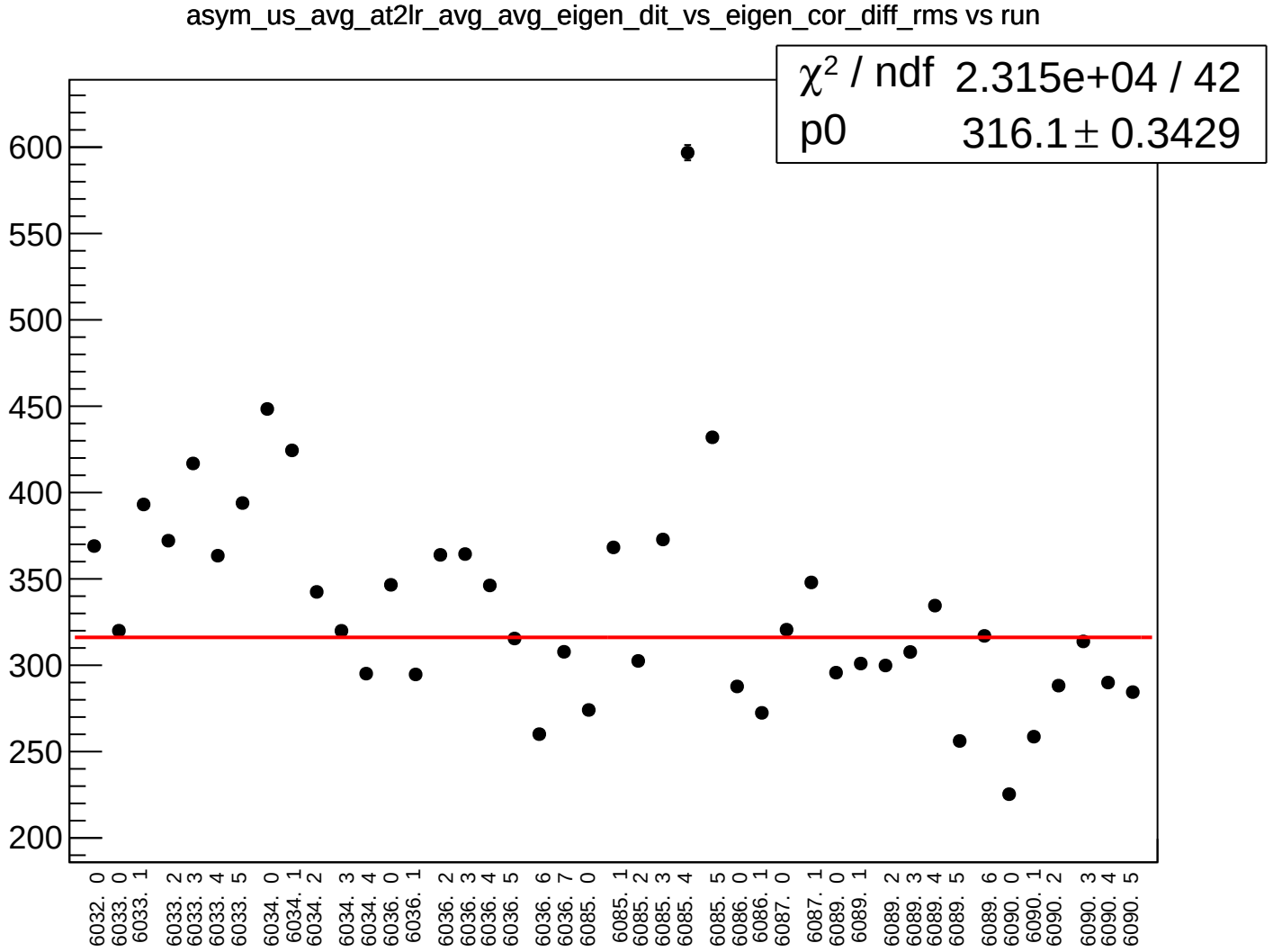

pull1D
Entries 43
Mean −0.07228
Std Dev 0.9754
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

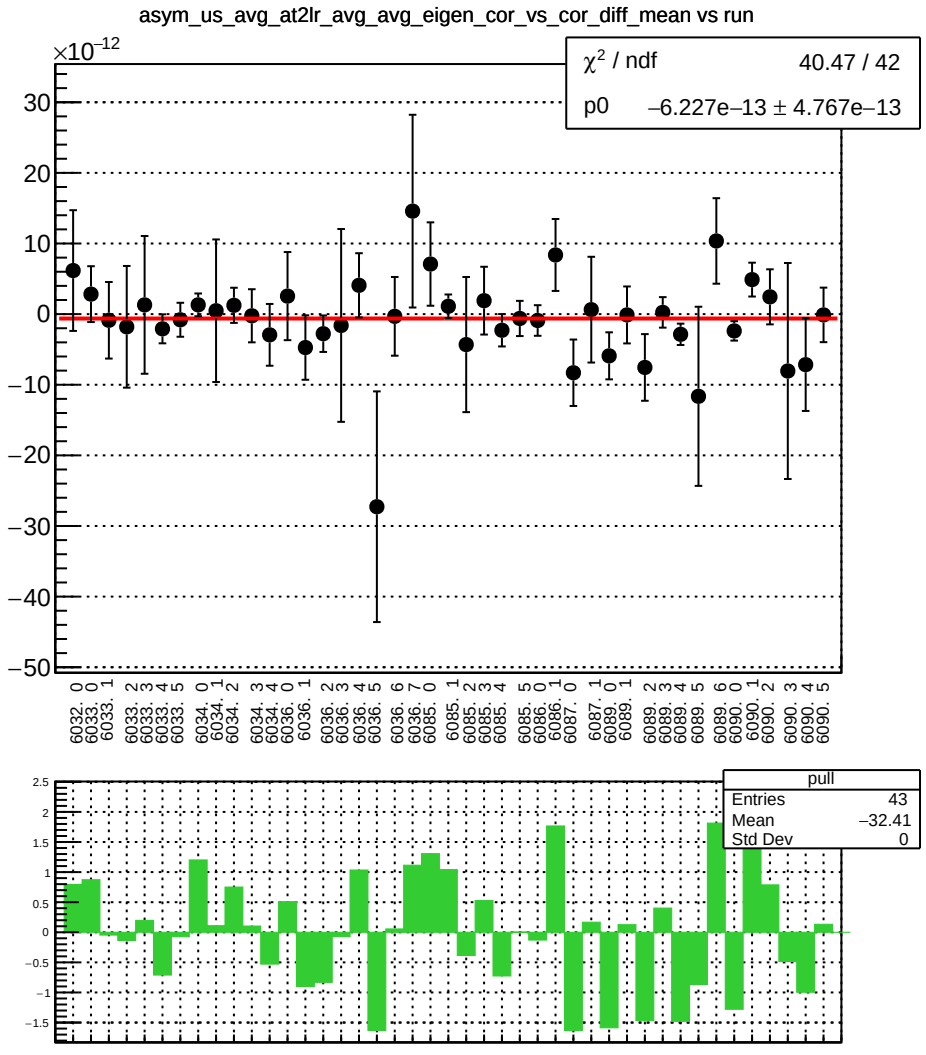

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.128e+05 / 42
p0 0.01798 ± 2.062e–05
0.035
0.03
0.025
0.02
0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

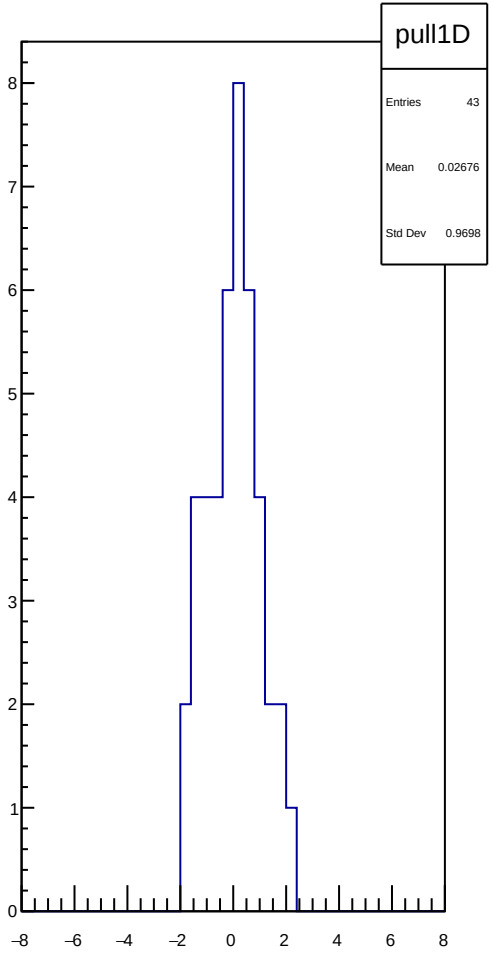

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.72 / 42
p0 −1.186 ± 0.4849
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 88.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02134
Std Dev 0.9363
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

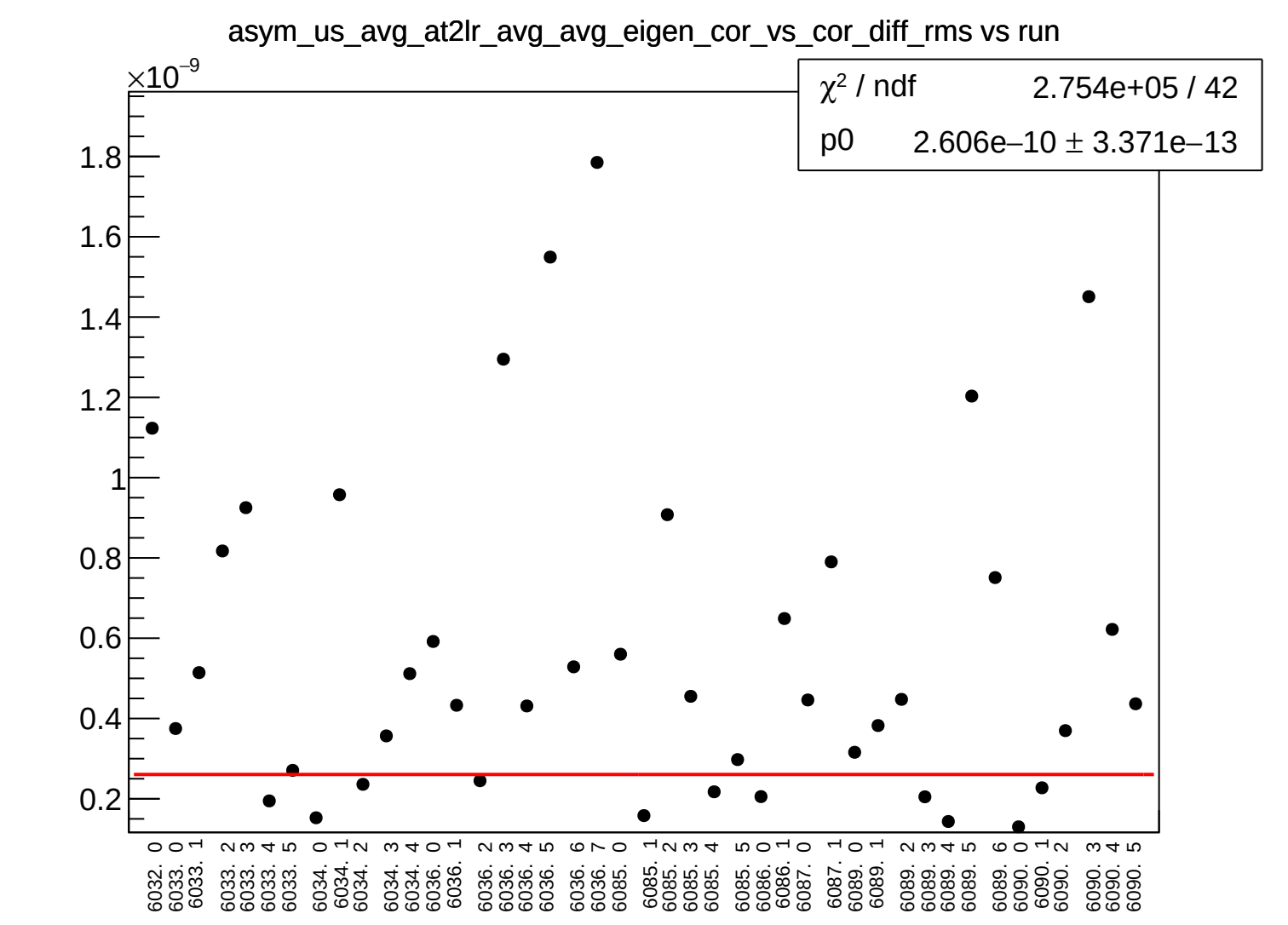

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 42
p0 316.1 ± 0.3429
600
550
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

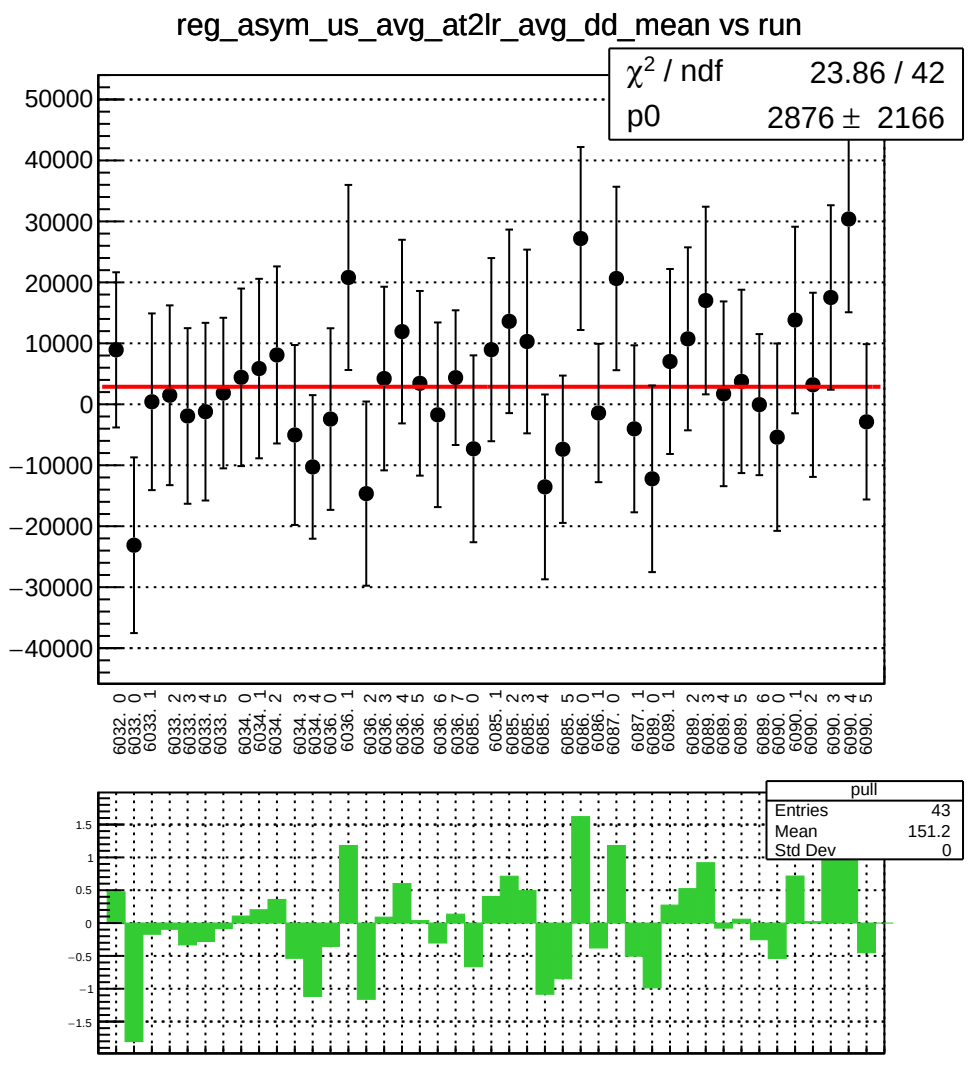

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.72 / 42
p0 −1.186 ± 0.4849
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 88.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02134
Std Dev 0.9363
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

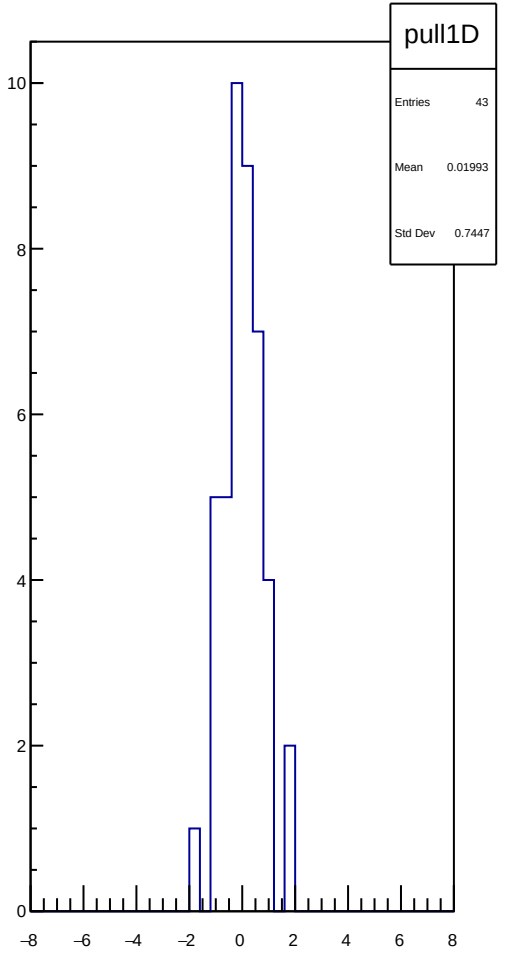

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 42
p0 316.1 ± 0.3429
600
550
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

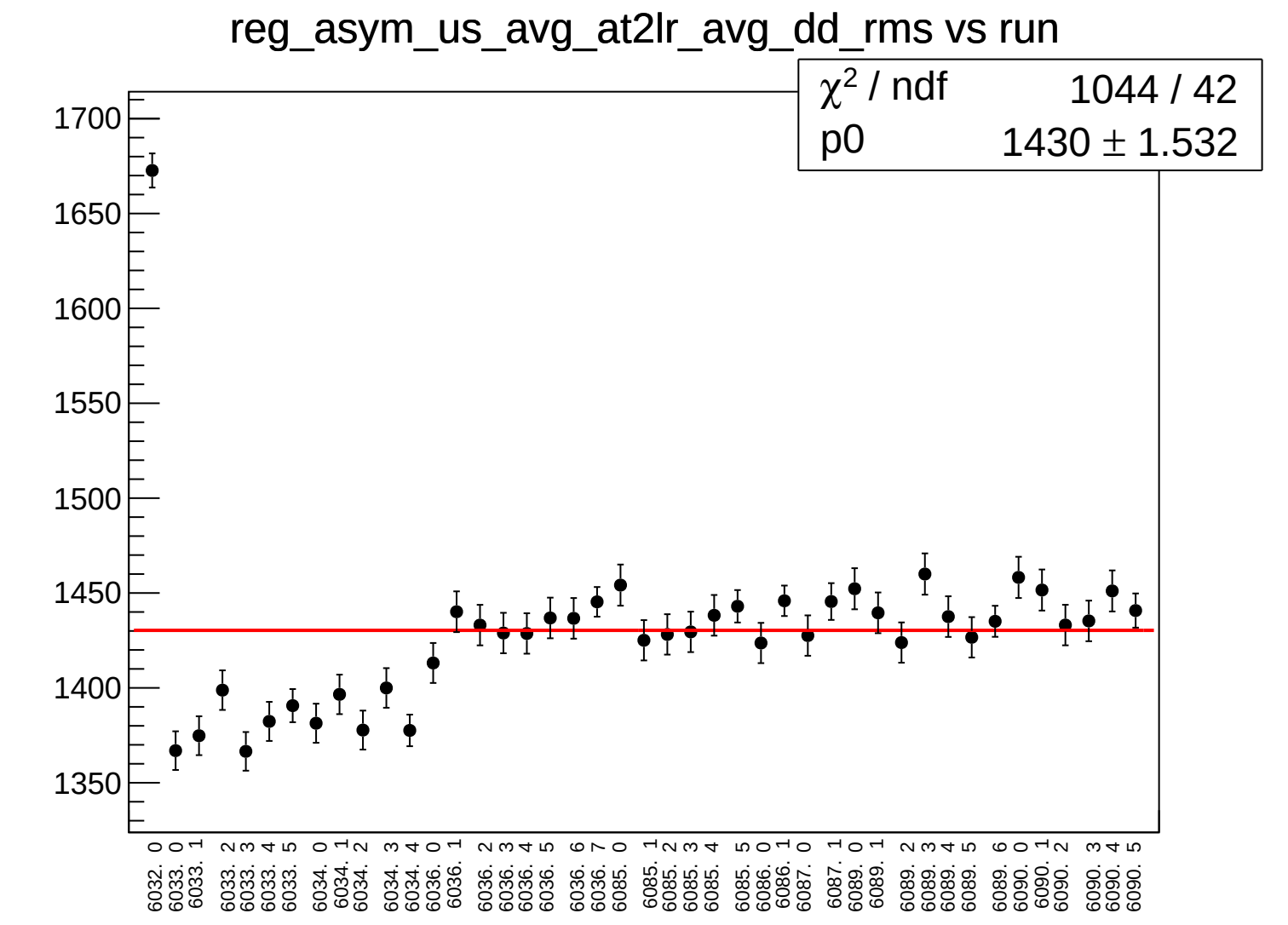

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.47 / 42
p0 −6.227e−13 ± 4.767e−13
pull
Entries 43
Mean −32.41
Std Dev 0

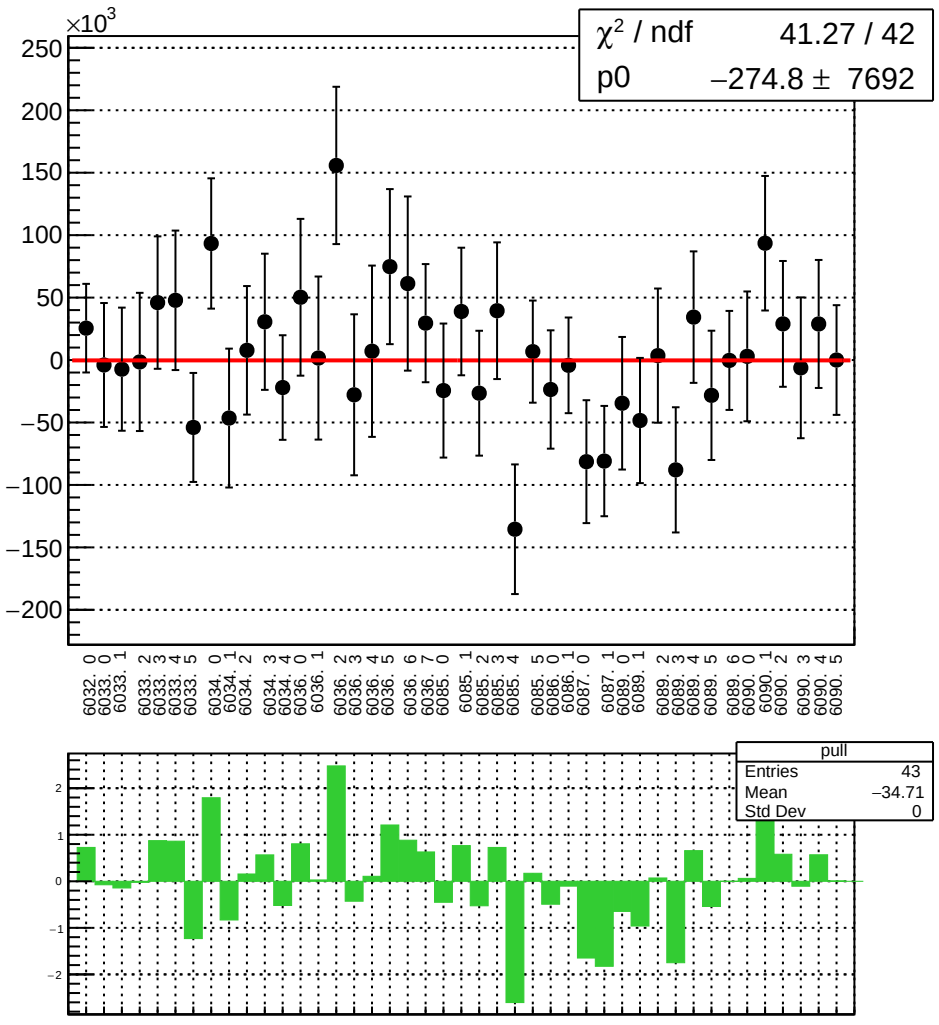

pull1D
Entries 43
Mean 0.02676
Std Dev 0.9698

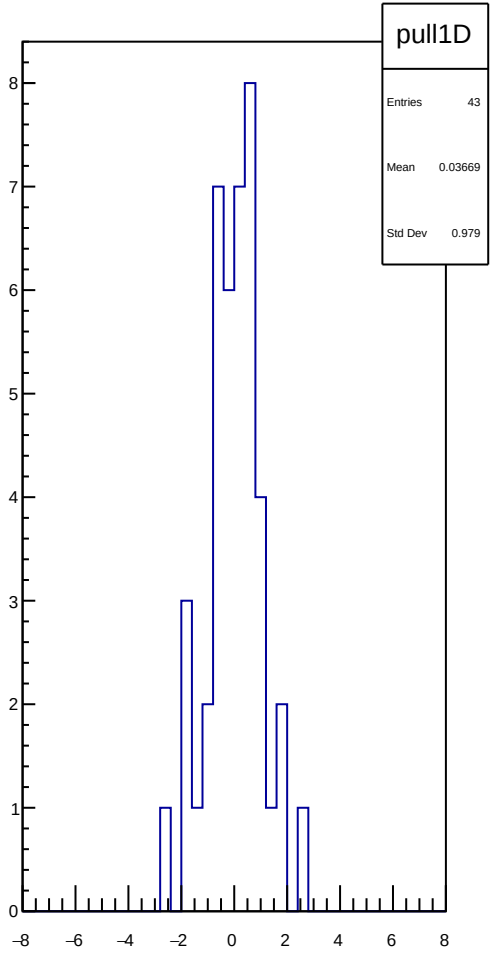

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.754e+05 / 42
p0 2.606e−10 ± 3.371e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

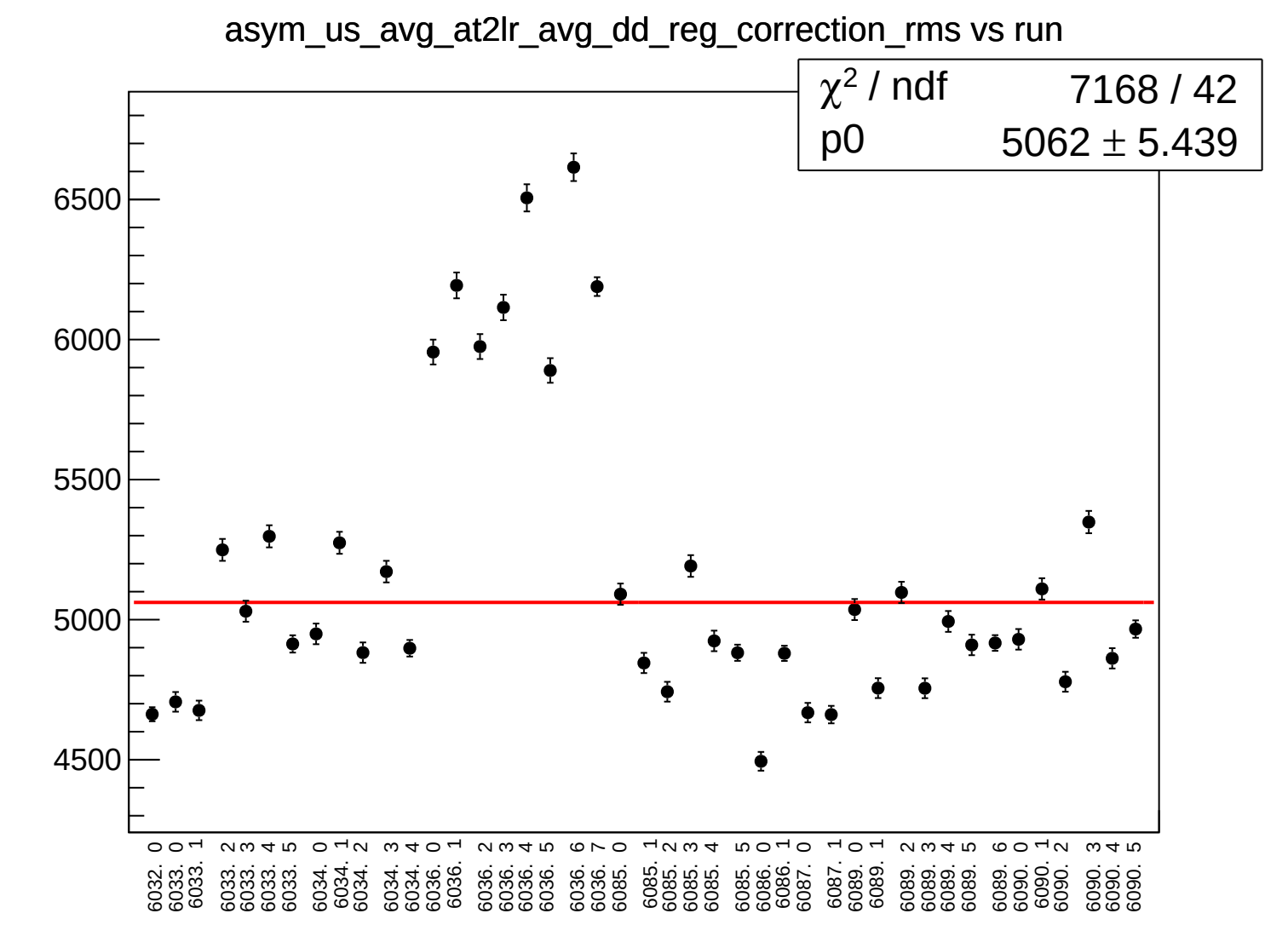

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 23.86 / 42
p0 2876 ± 2166
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 151.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

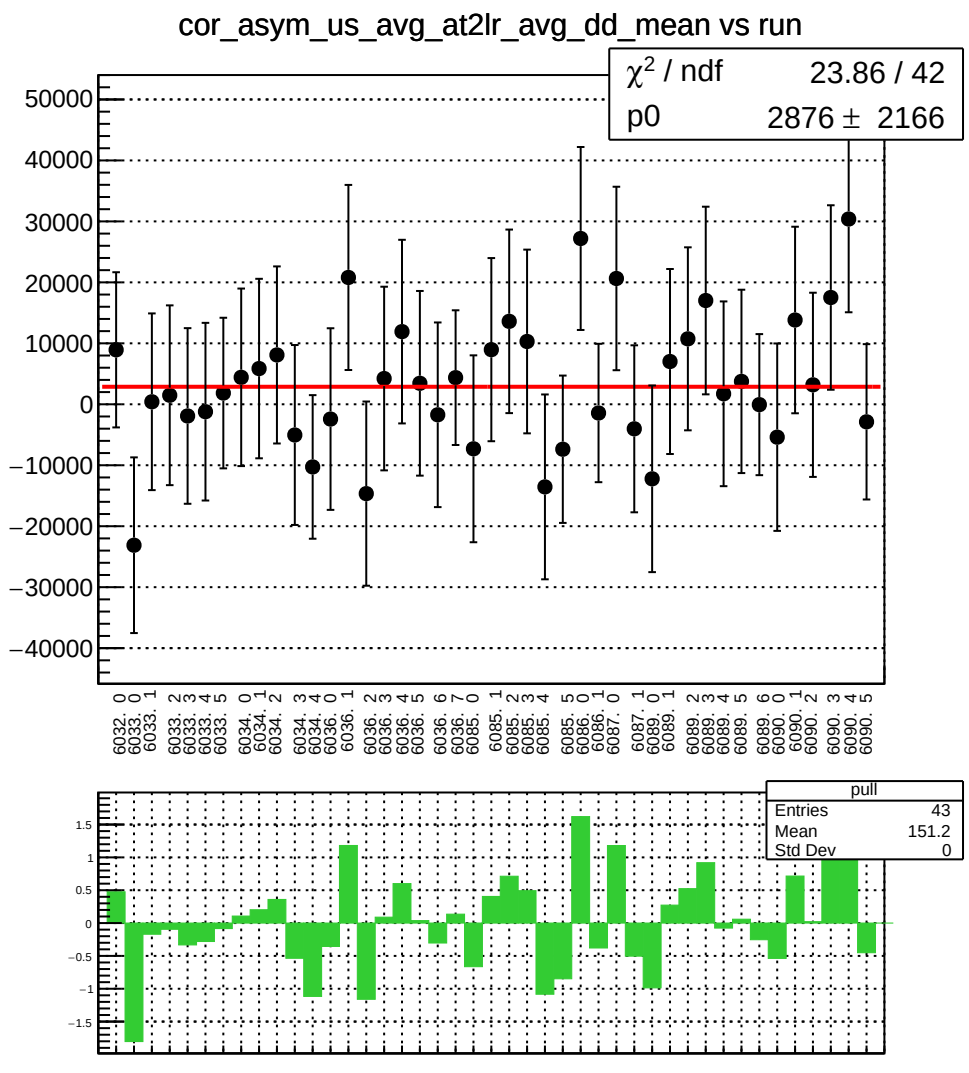

pull1D
Entries 43
Mean 0.01993
Std Dev 0.7447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

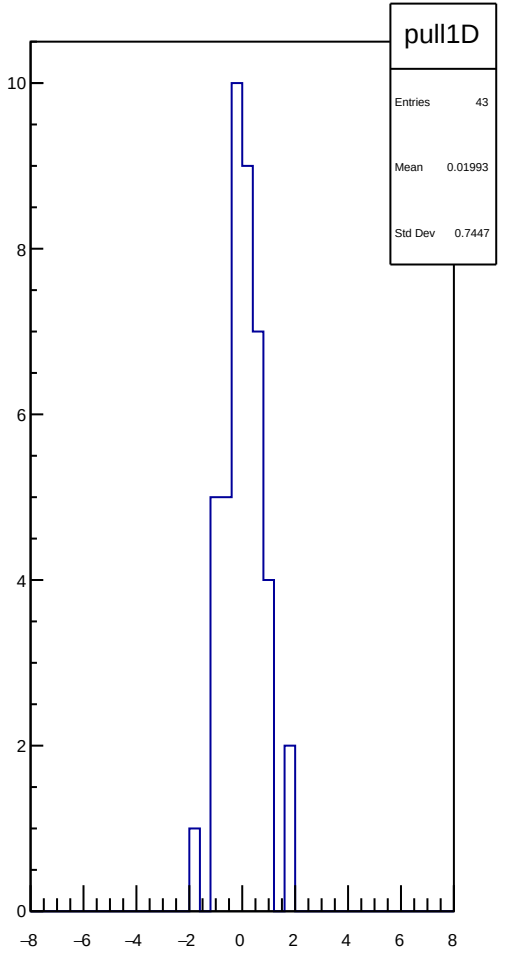

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1044 / 42
p0 1430 ± 1.532
1700
1650
1600
1550
1500
1450
1400
1350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

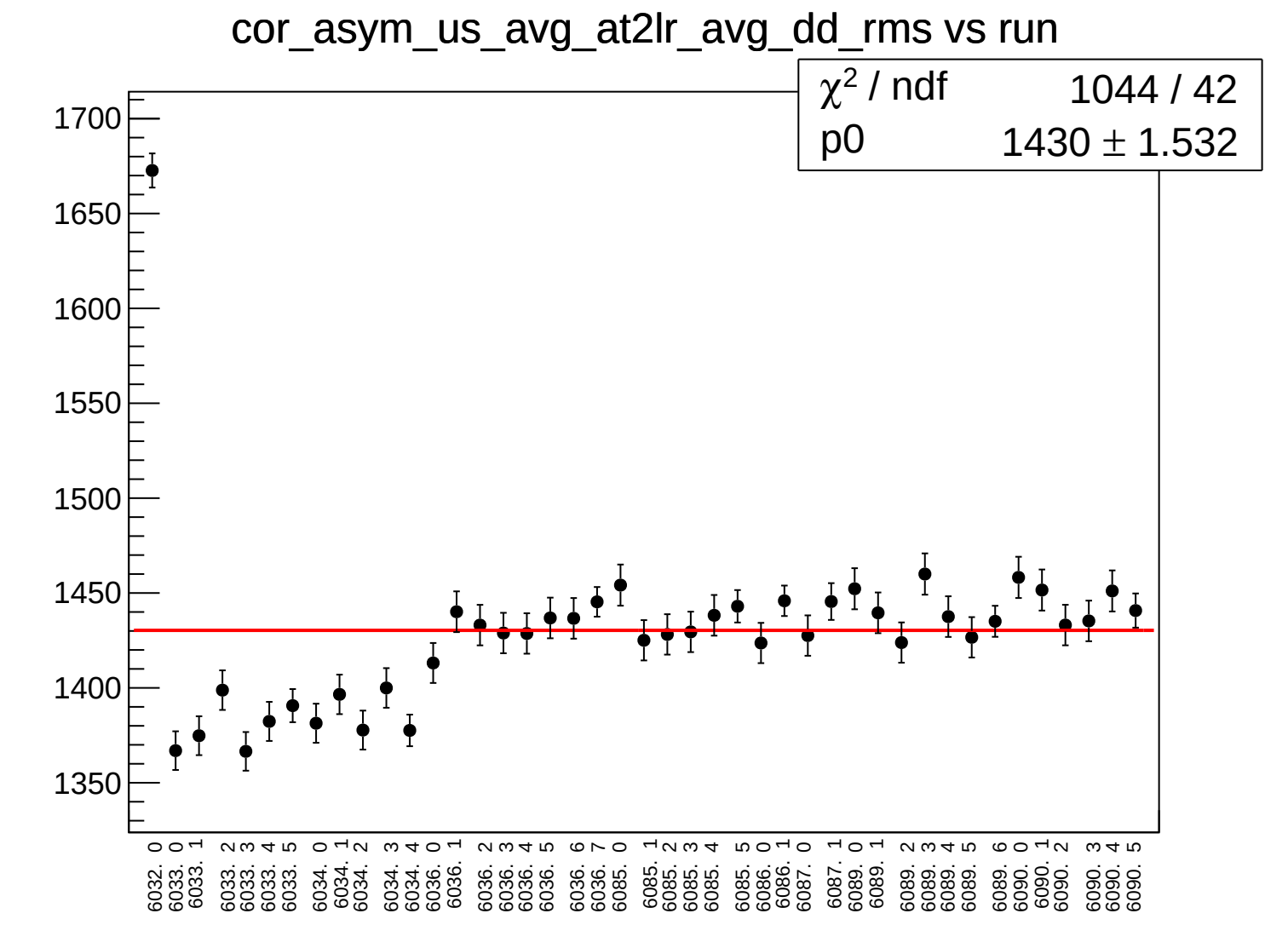

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.27 / 42
p0 −274.8 ± 7692
pull
Entries 43
Mean −34.71
Std Dev 0

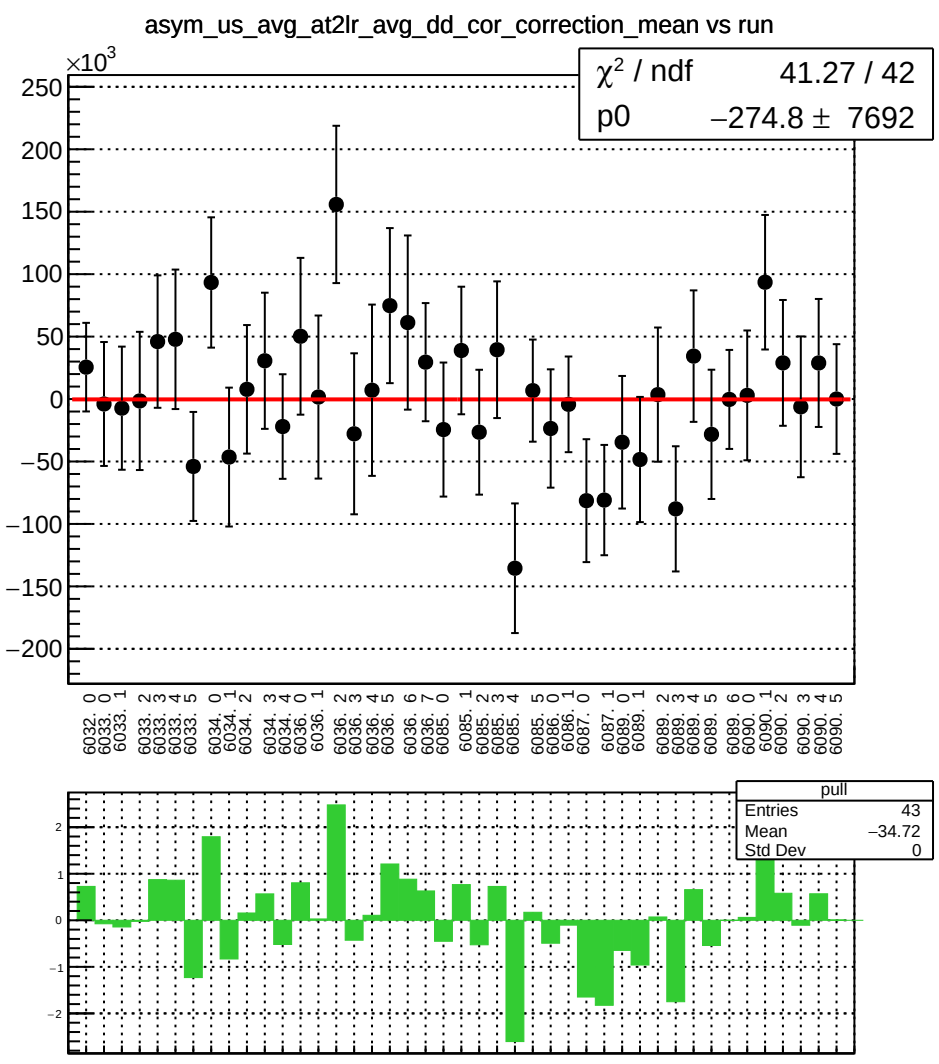

pull1D
Entries 43
Mean 0.03669
Std Dev 0.979

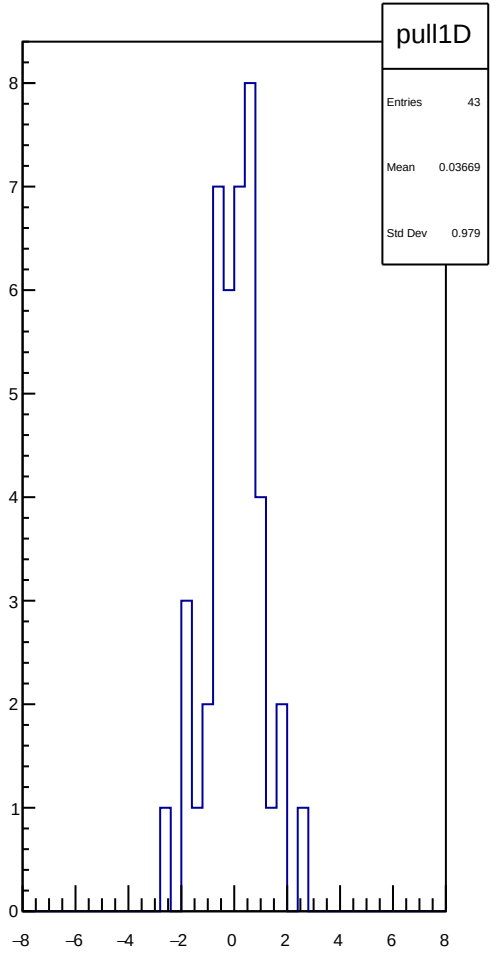

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7168 / 42
p0 5062 ± 5.439
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

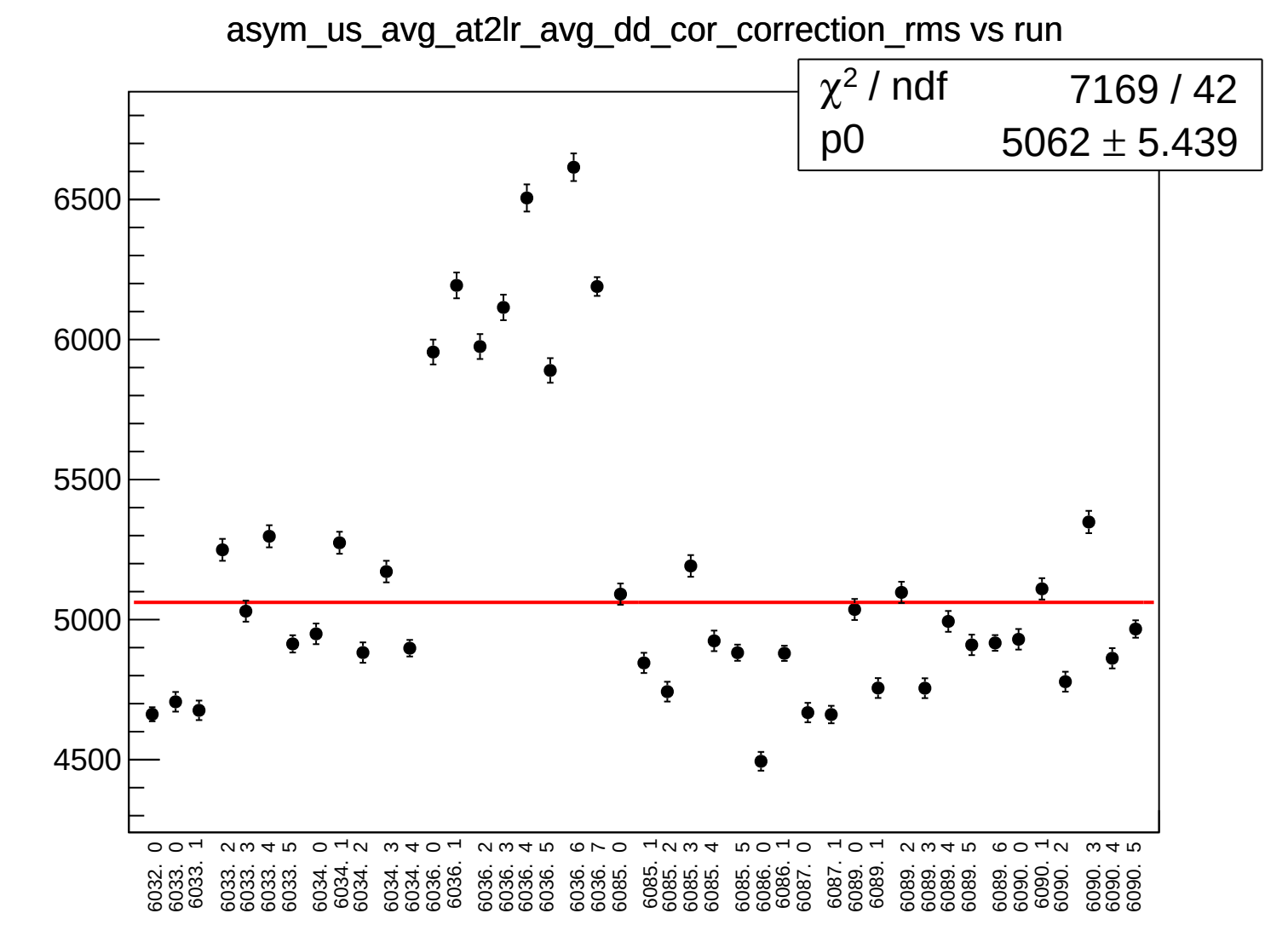

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 23.86 / 42
p0 2876 ± 2166
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 151.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

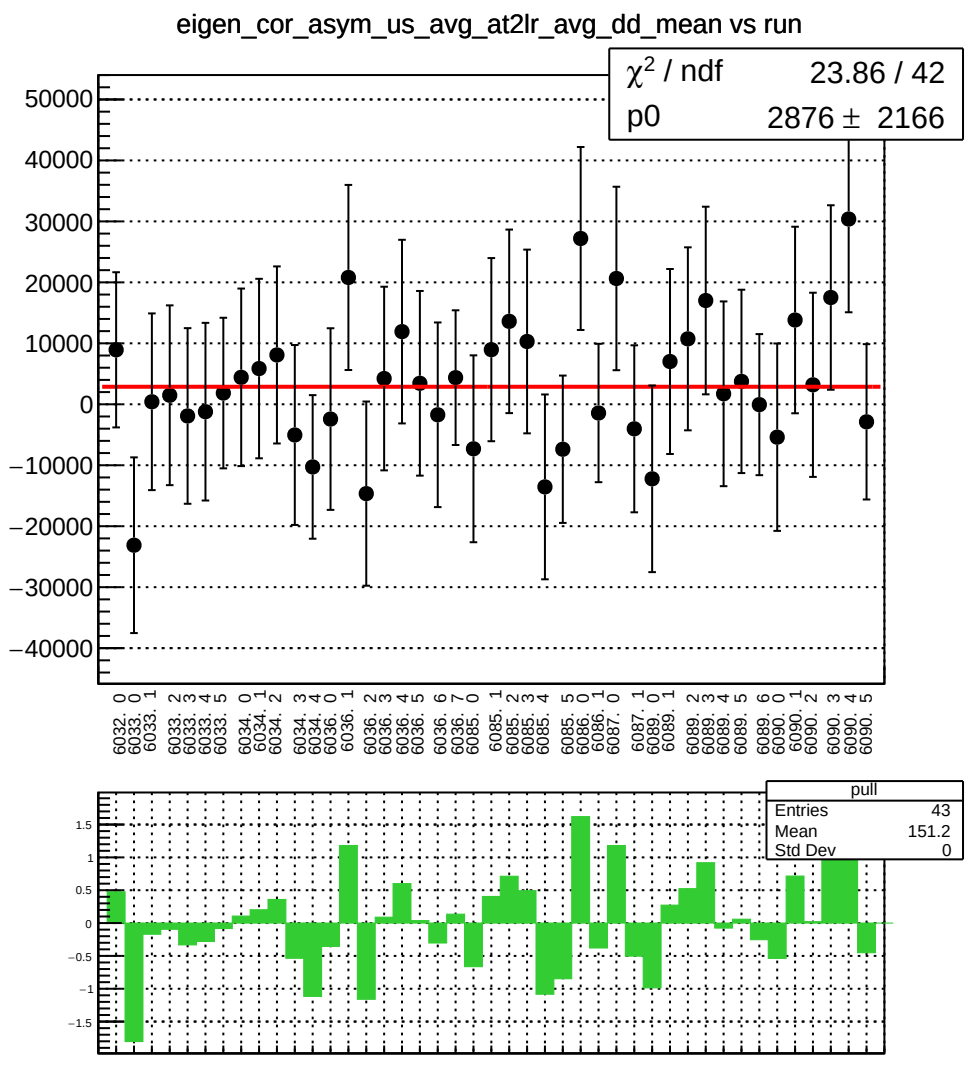

pull1D
Entries 43
Mean 0.01993
Std Dev 0.7447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

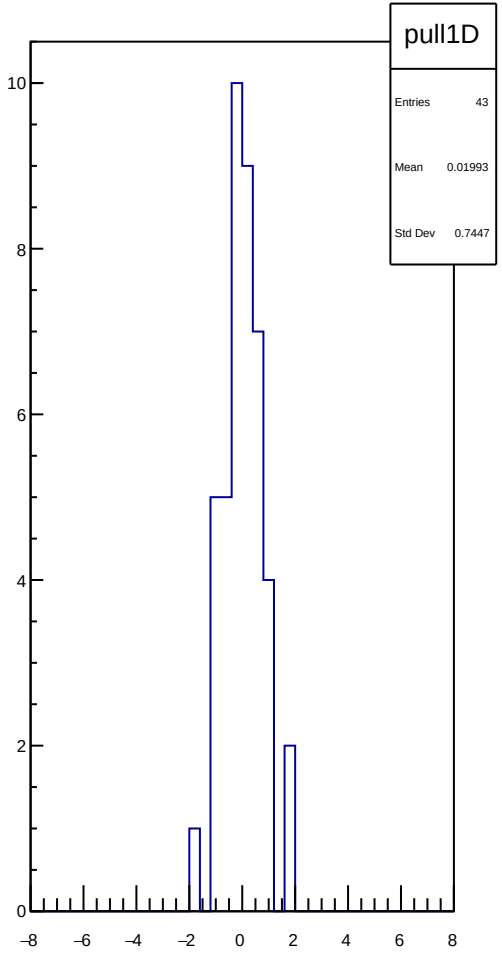

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1044 / 42
p0 1430 ± 1.532
1700
1650
1600
1550
1500
1450
1400
1350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

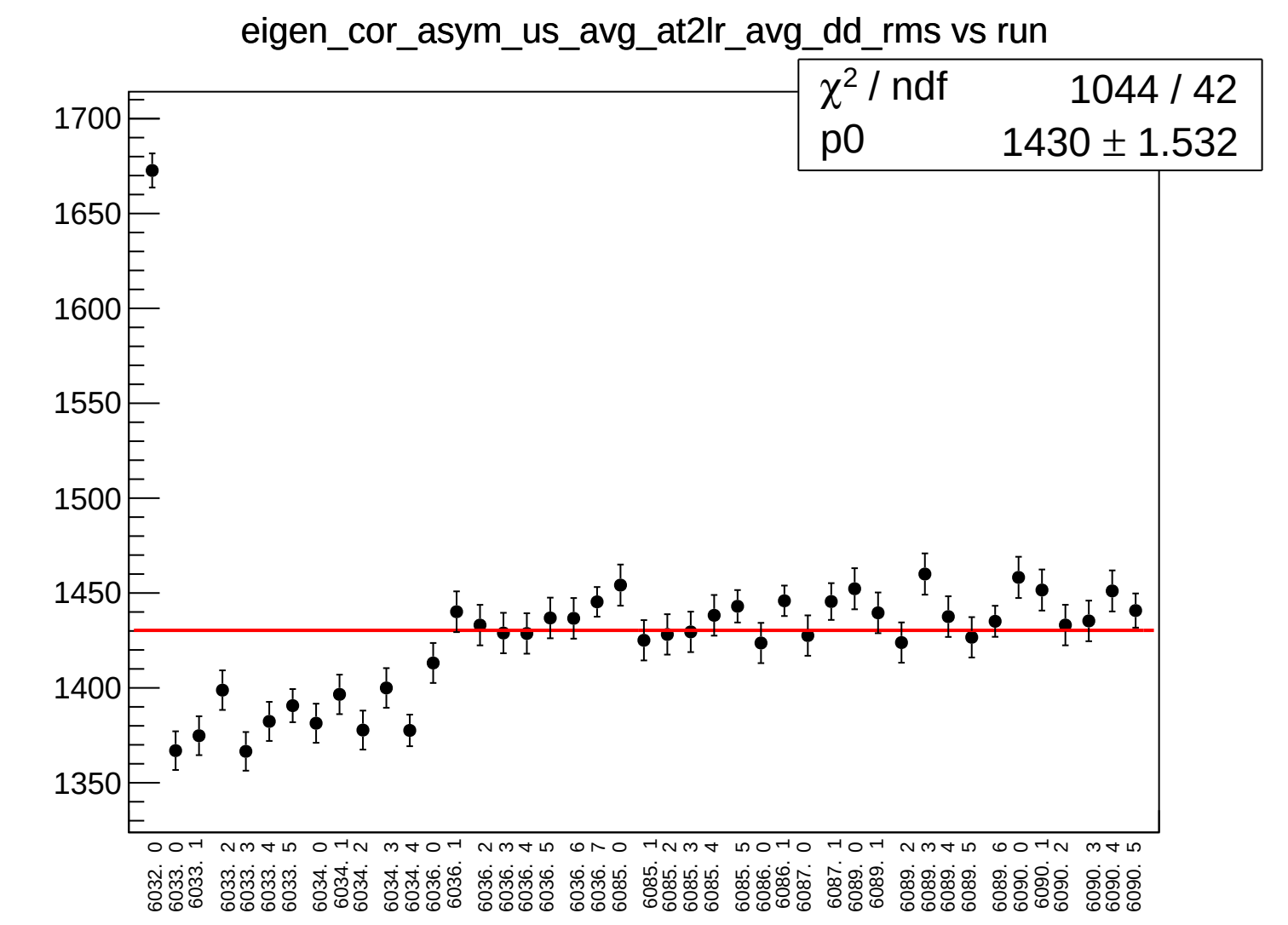

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.27 / 42
p0 −274.8 ± 7692
pull
Entries 43
Mean −34.72
Std Dev 0

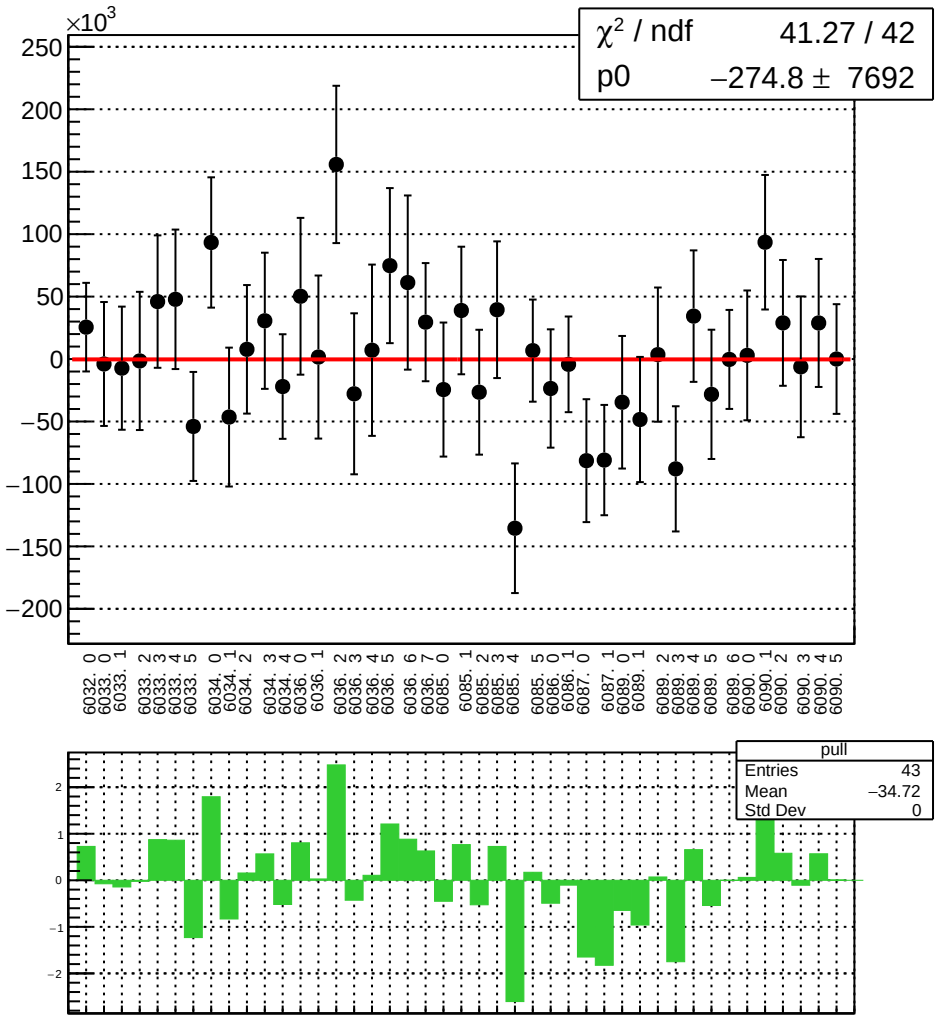

pull1D
Entries 43
Mean 0.03669
Std Dev 0.979

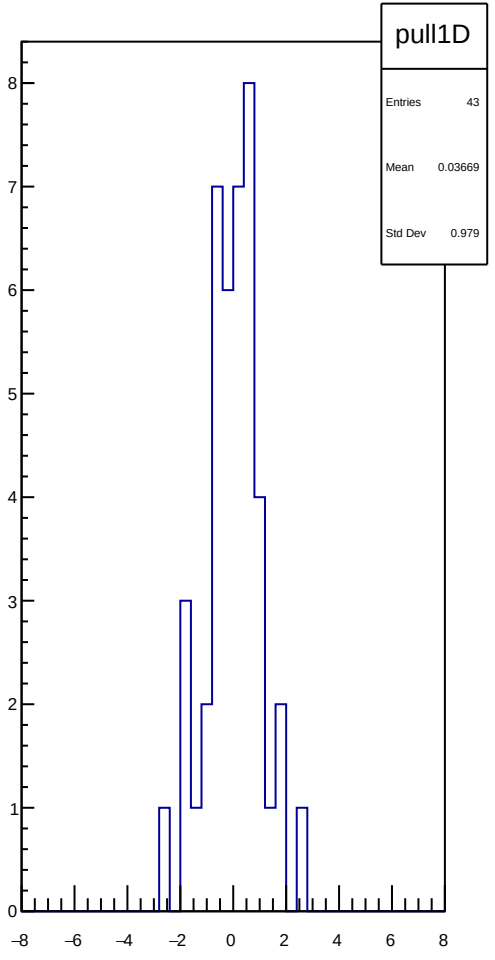

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7169 / 42
p0 5062 ± 5.439
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

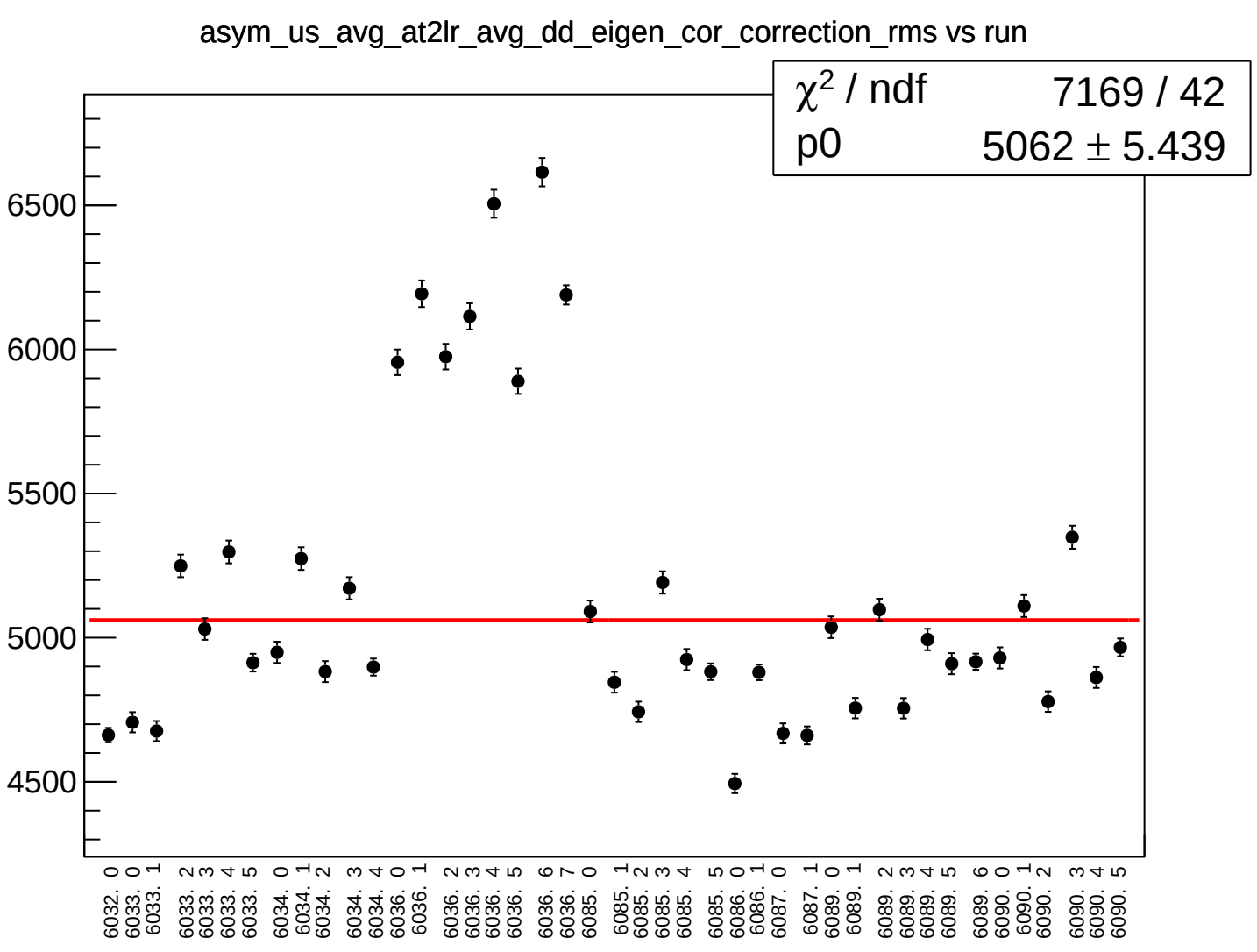

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 23.86 / 42
p0 2876 ± 2166
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 151.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

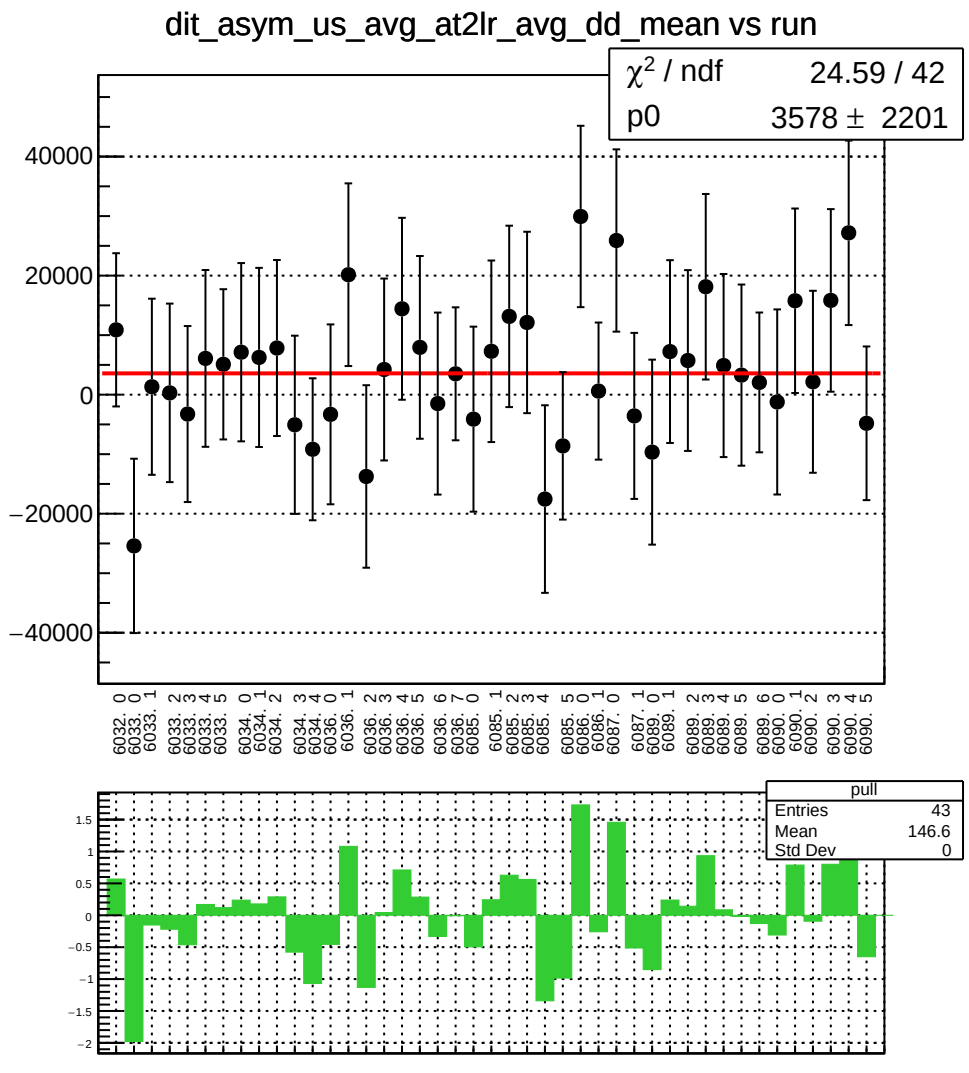

pull1D
Entries 43
Mean 0.01993
Std Dev 0.7447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

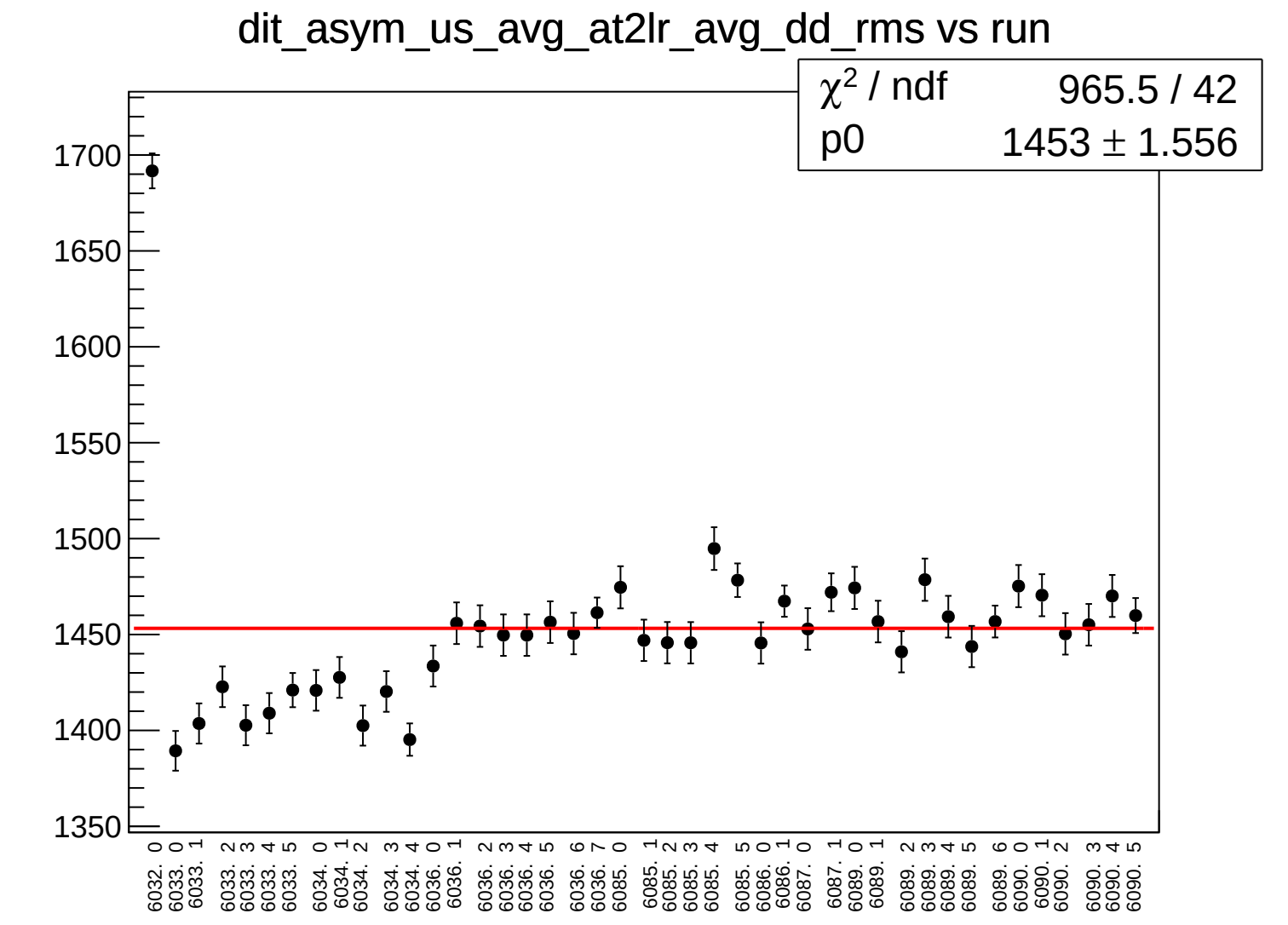

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1044 / 42
p0 1430 ± 1.532
1700
1650
1600
1550
1500
1450
1400
1350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

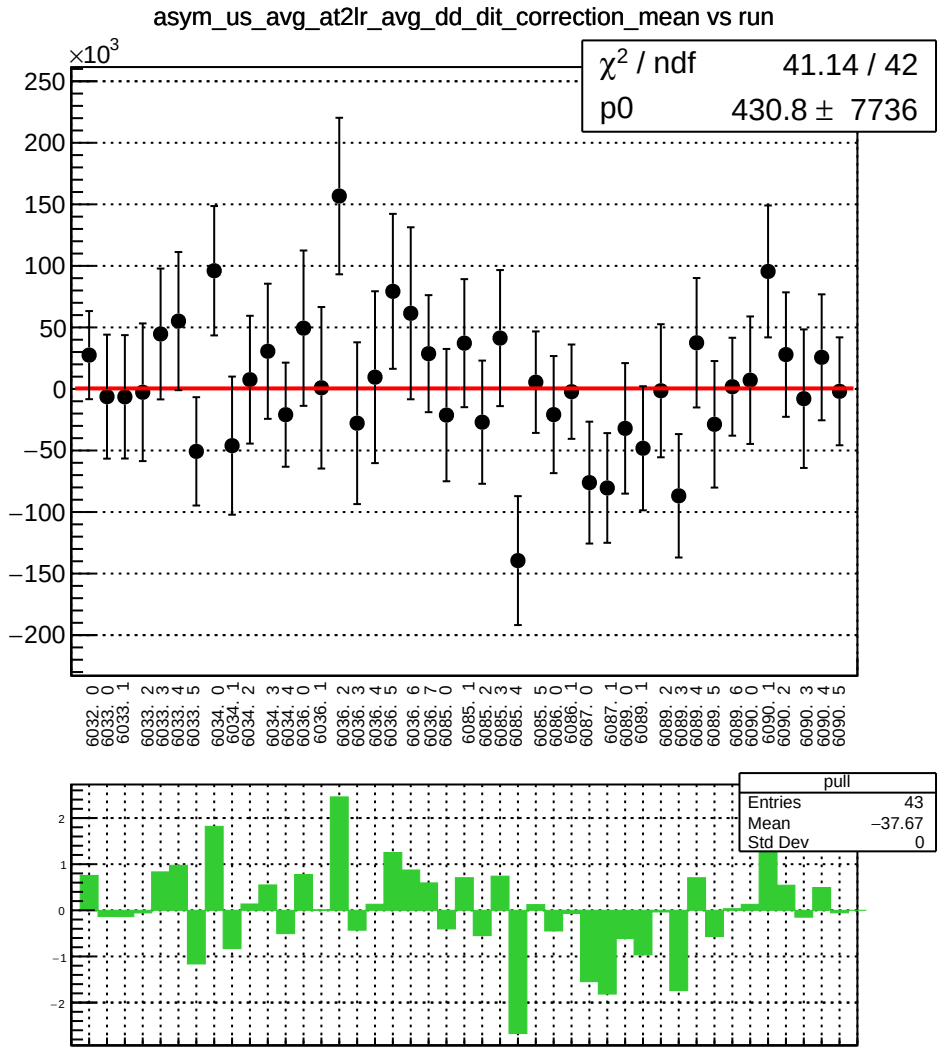

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.27 / 42
p0 −274.8 ± 7692
250
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −34.72
Std Dev 0
2
1
0
−1
−2

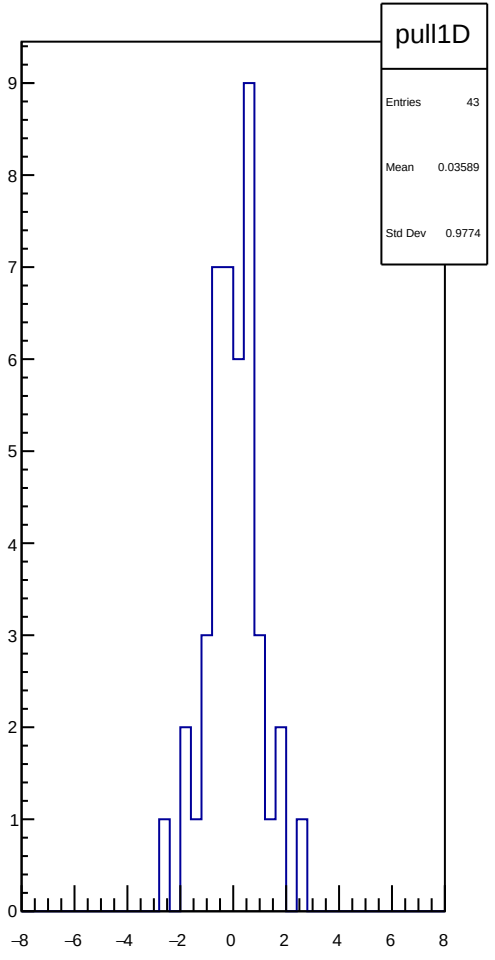

pull1D
Entries 43
Mean 0.03669
Std Dev 0.979
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

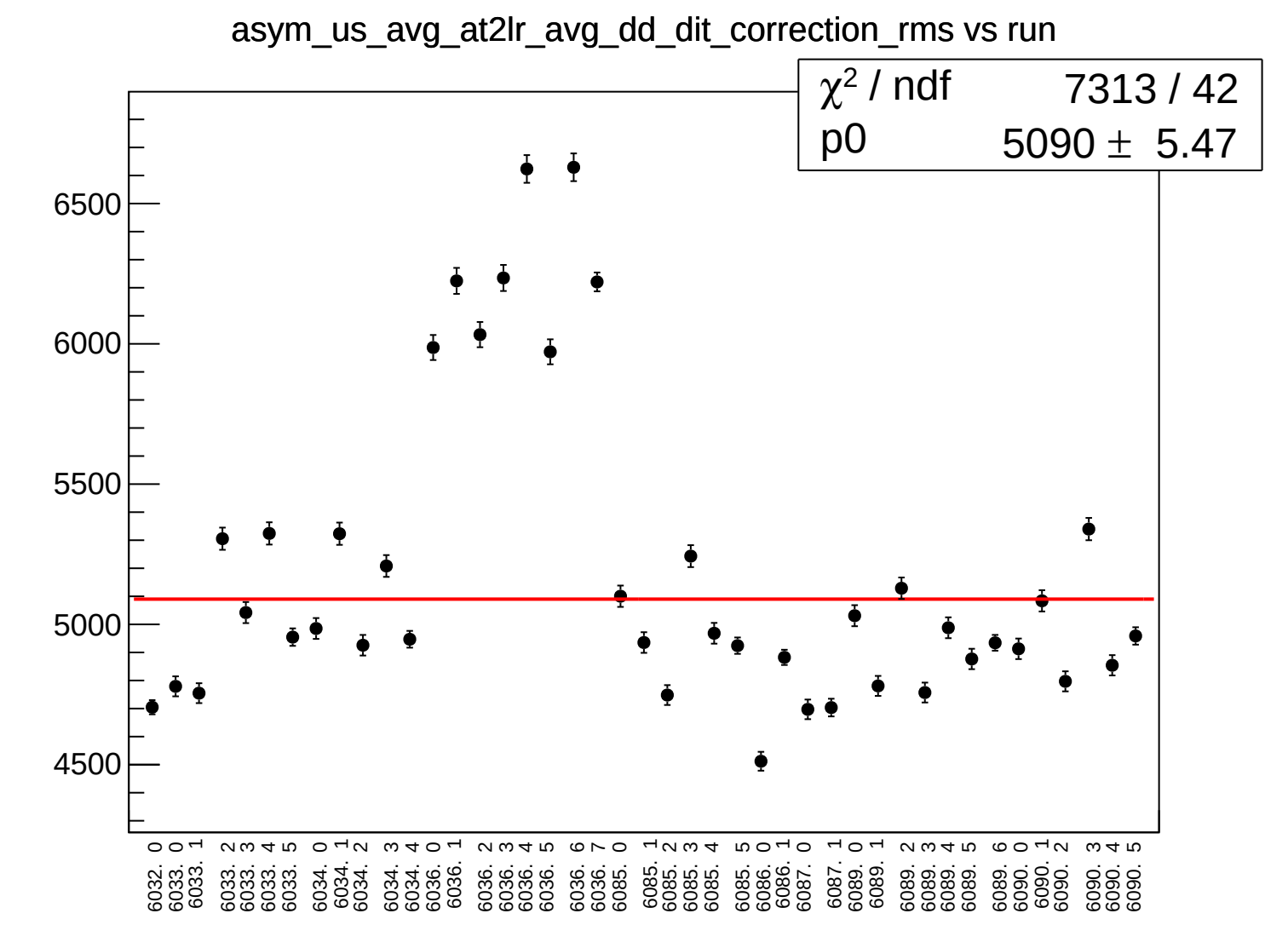

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7169 / 42
p0 5062 ± 5.439
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

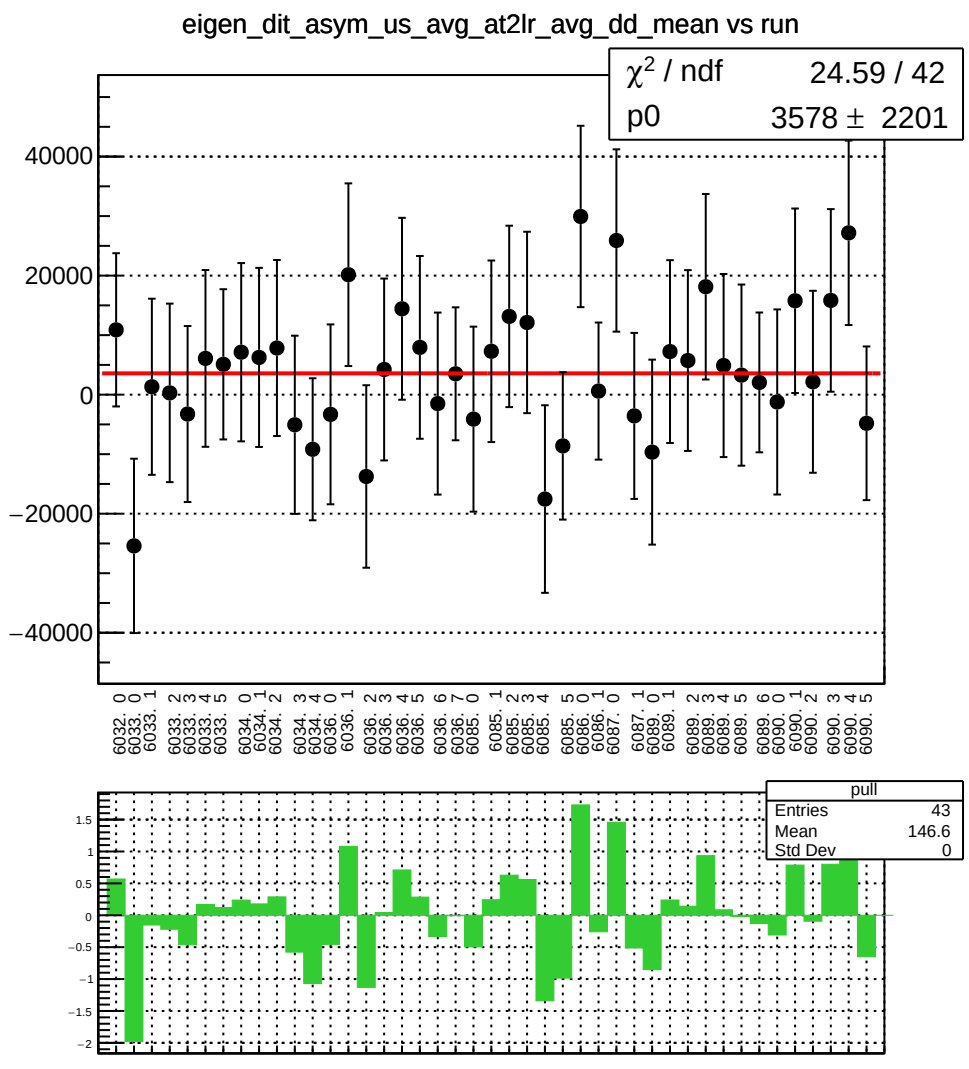

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 24.59 / 42
p0 3578 ± 2201
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 146.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01819
Std Dev 0.7561
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

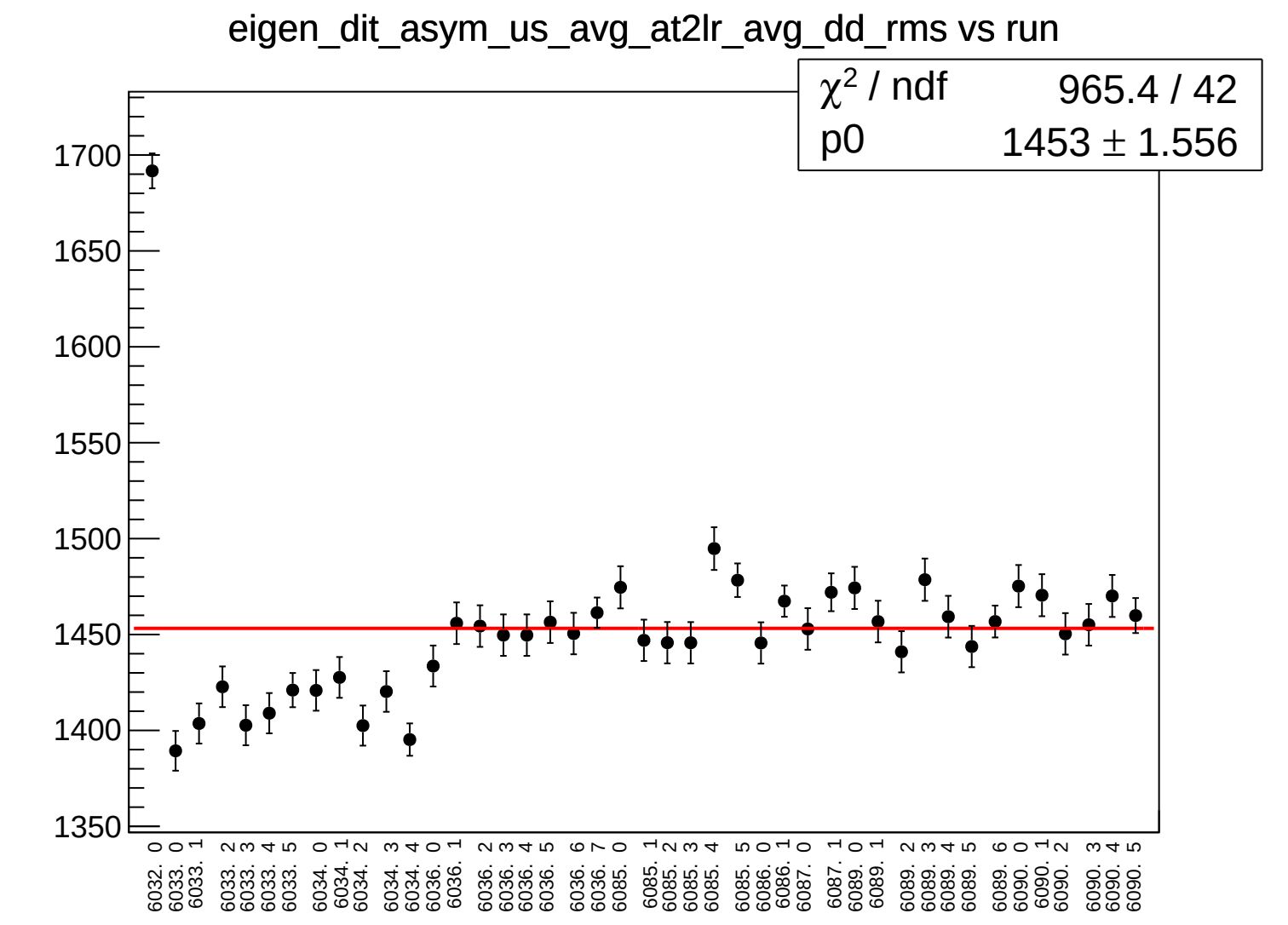

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 965.5 / 42
p0 1453 ± 1.556
1700
1650
1600
1550
1500
1450
1400
1350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

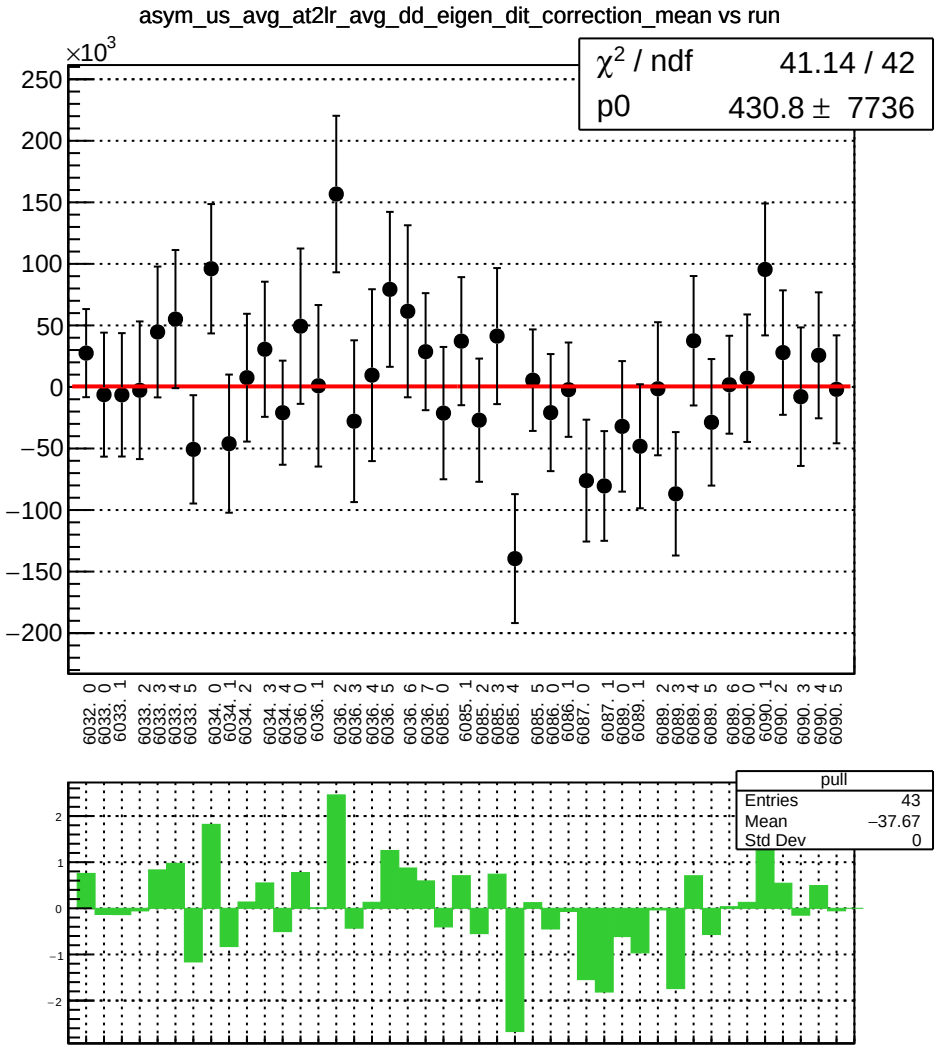

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 41.14 / 42
p0 430.8 ± 7736
pull
Entries 43
Mean −37.67
Std Dev 0

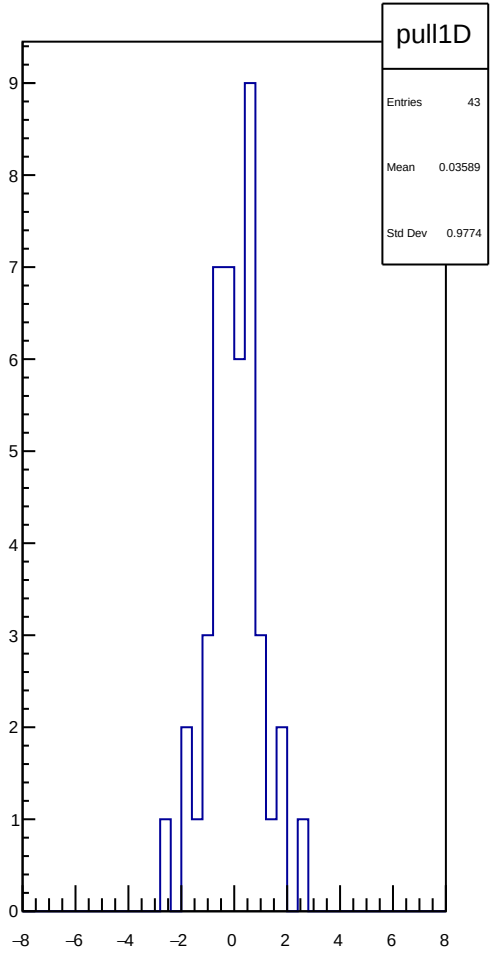

pull1D
Entries 43
Mean 0.03589
Std Dev 0.9774

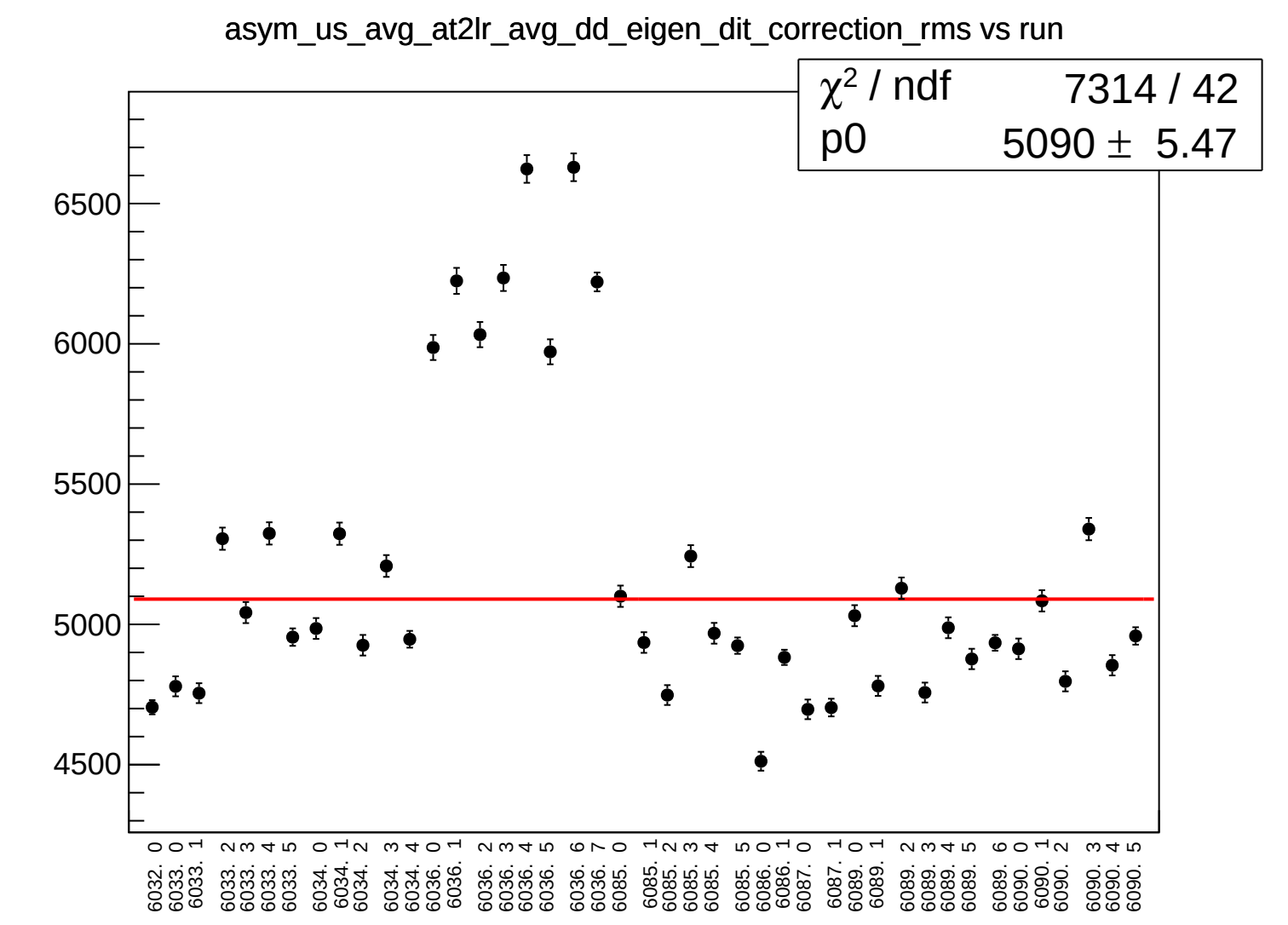

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7313 / 42
p0 5090 ± 5.47
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

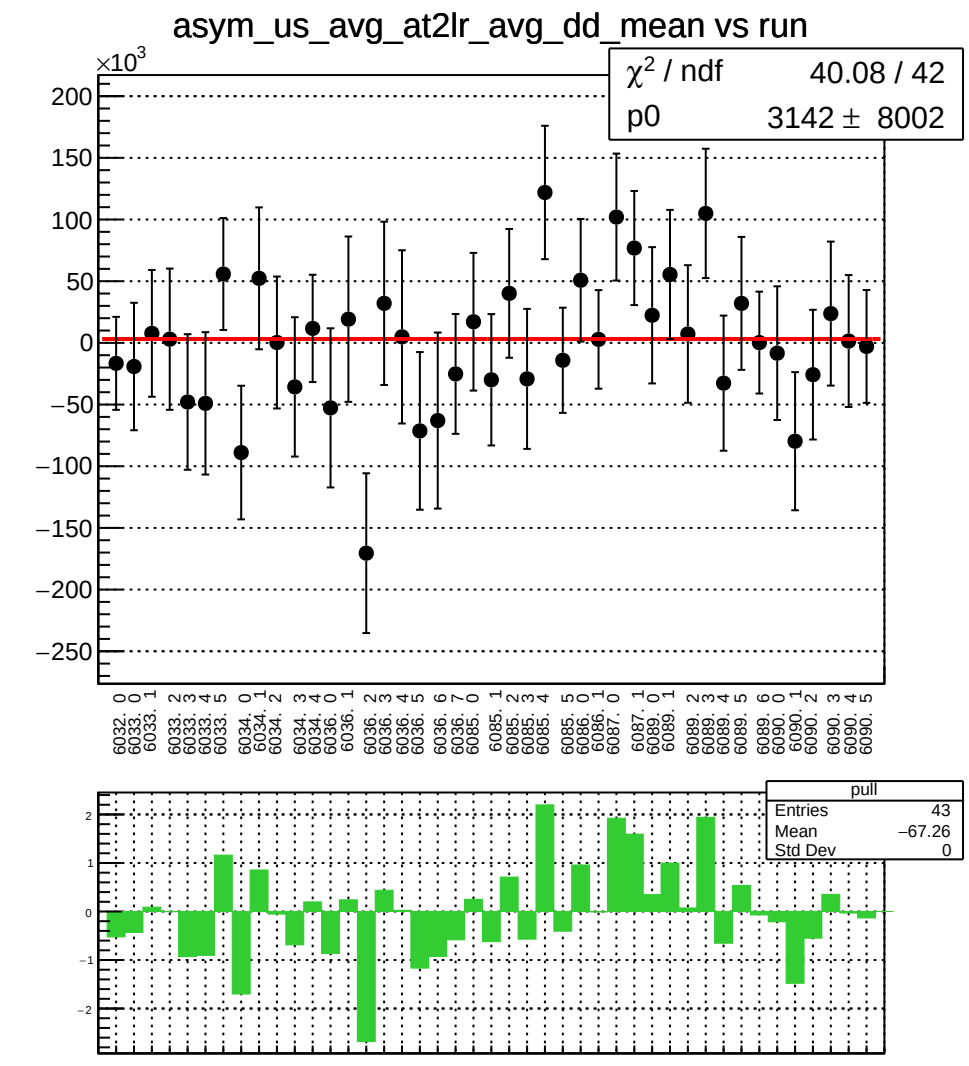

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 24.59 / 42
p0 3578 ± 2201
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 146.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01819
Std Dev 0.7561
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

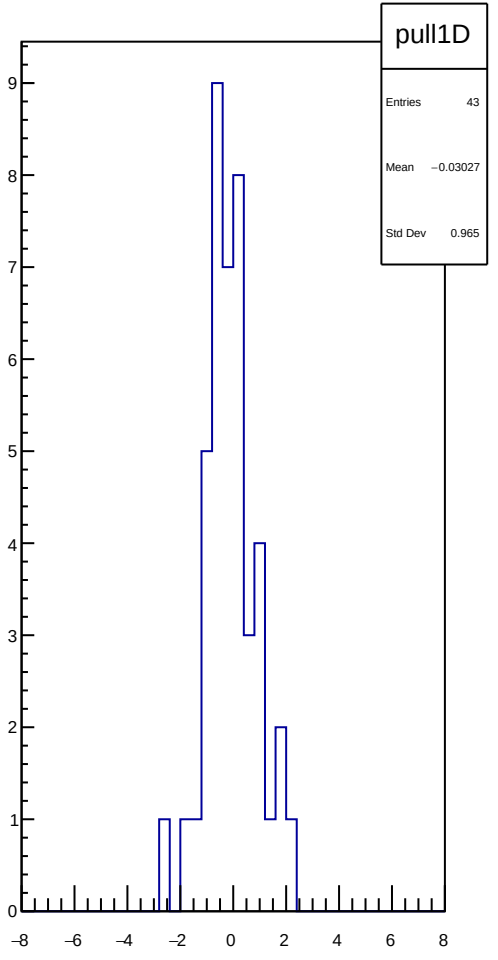

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 965.4 / 42
p0 1453 ± 1.556
1700
1650
1600
1550
1500
1450
1400
1350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

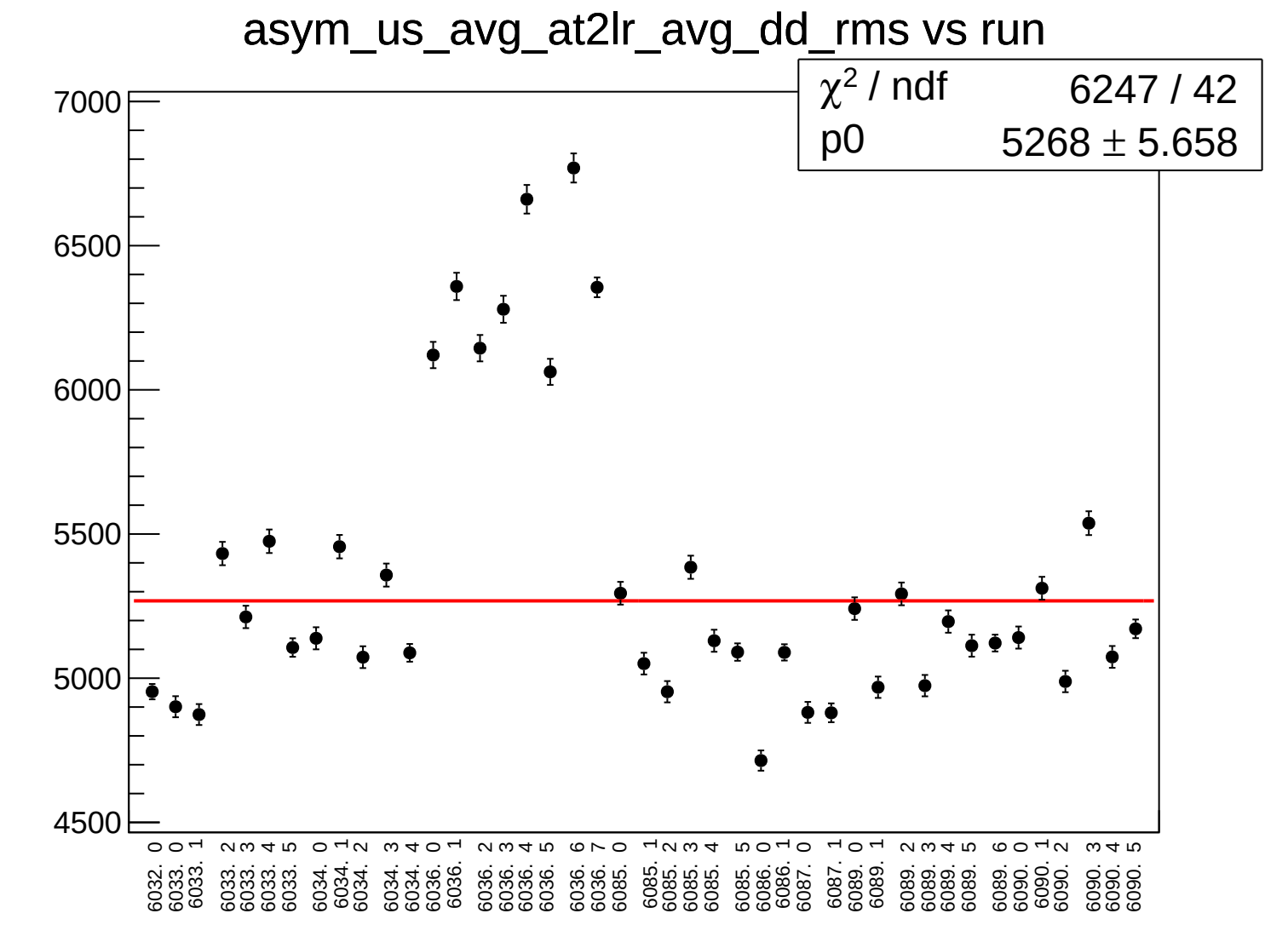

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.14 / 42
p0 430.8 ± 7736
pull
Entries 43
Mean −37.67
Std Dev 0

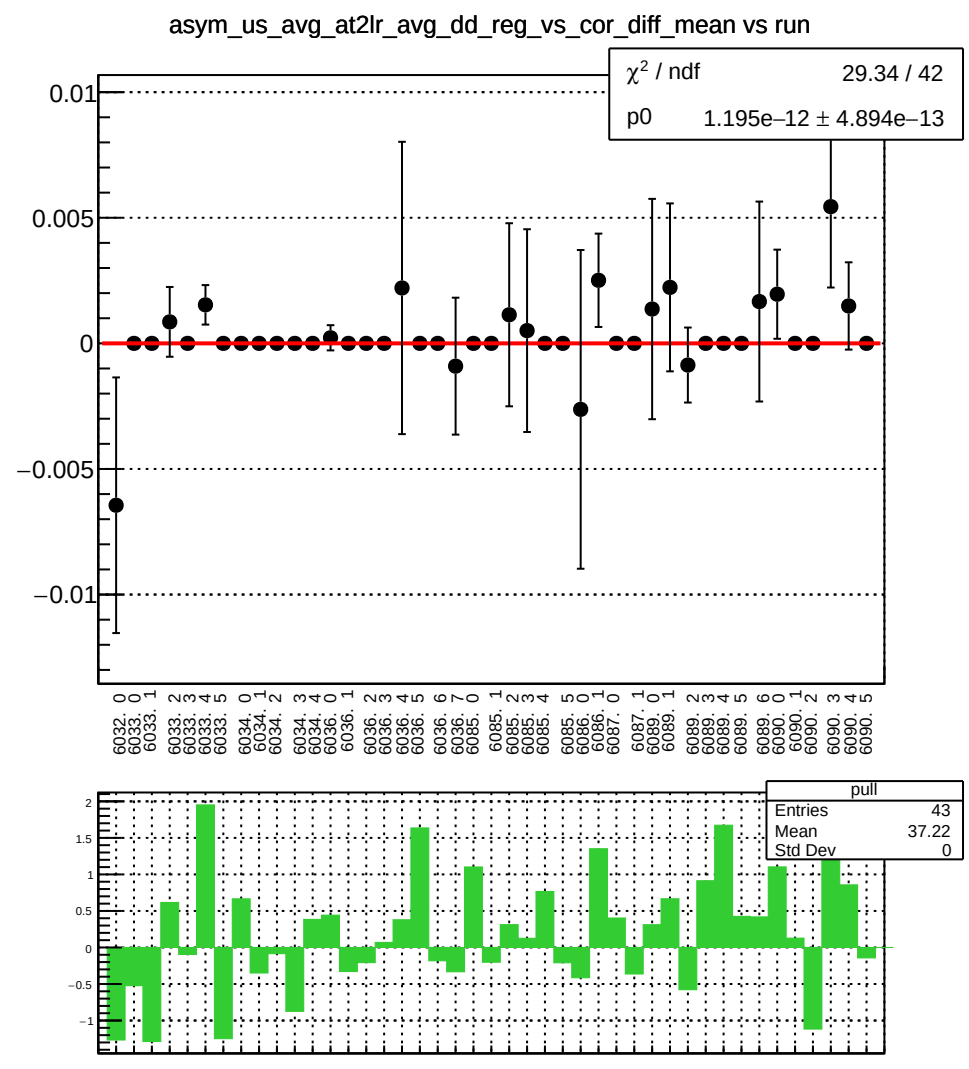

pull1D
Entries 43
Mean 0.03589
Std Dev 0.9774

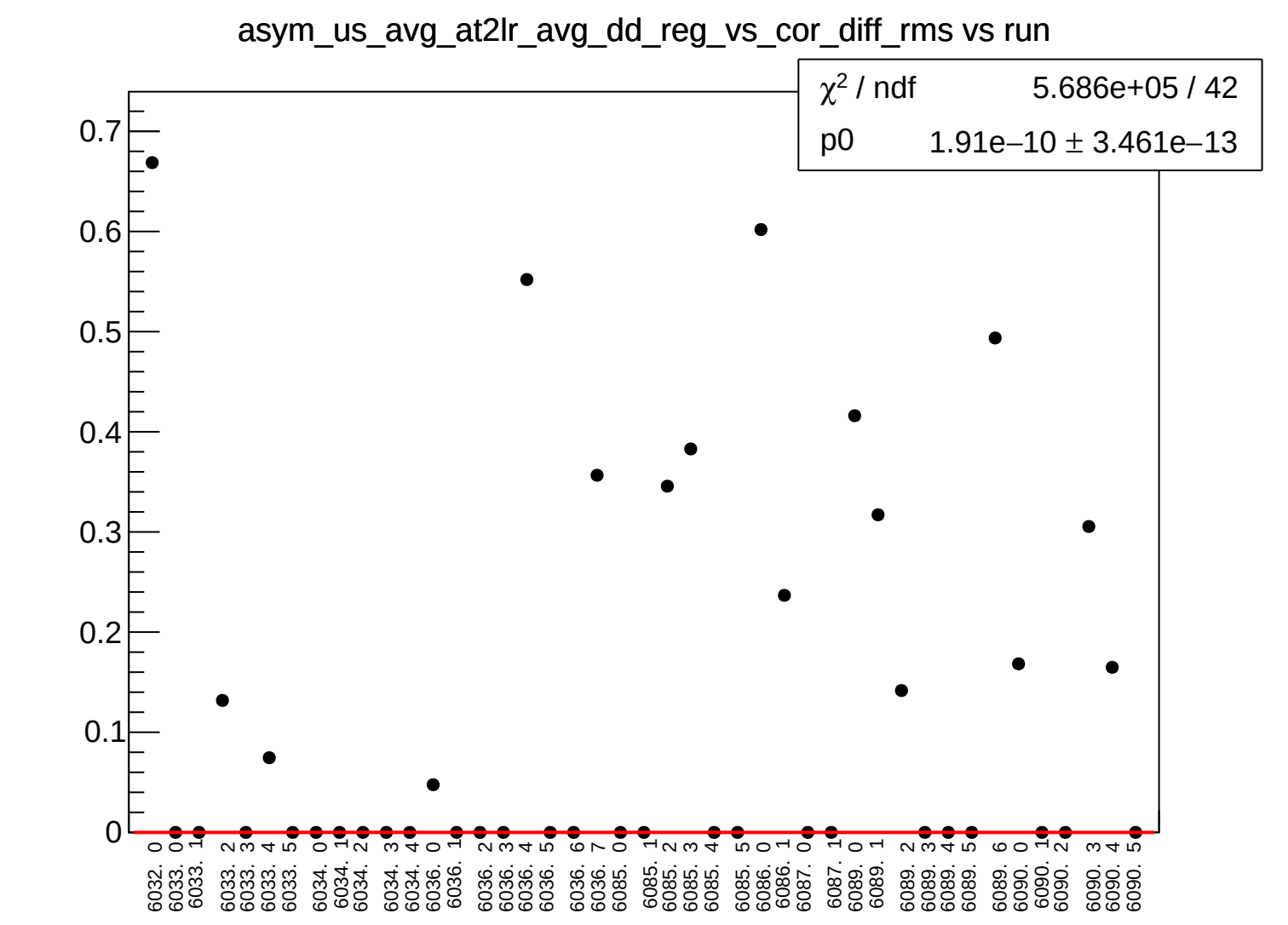

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7314 / 42
p0 5090 ± 5.47
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

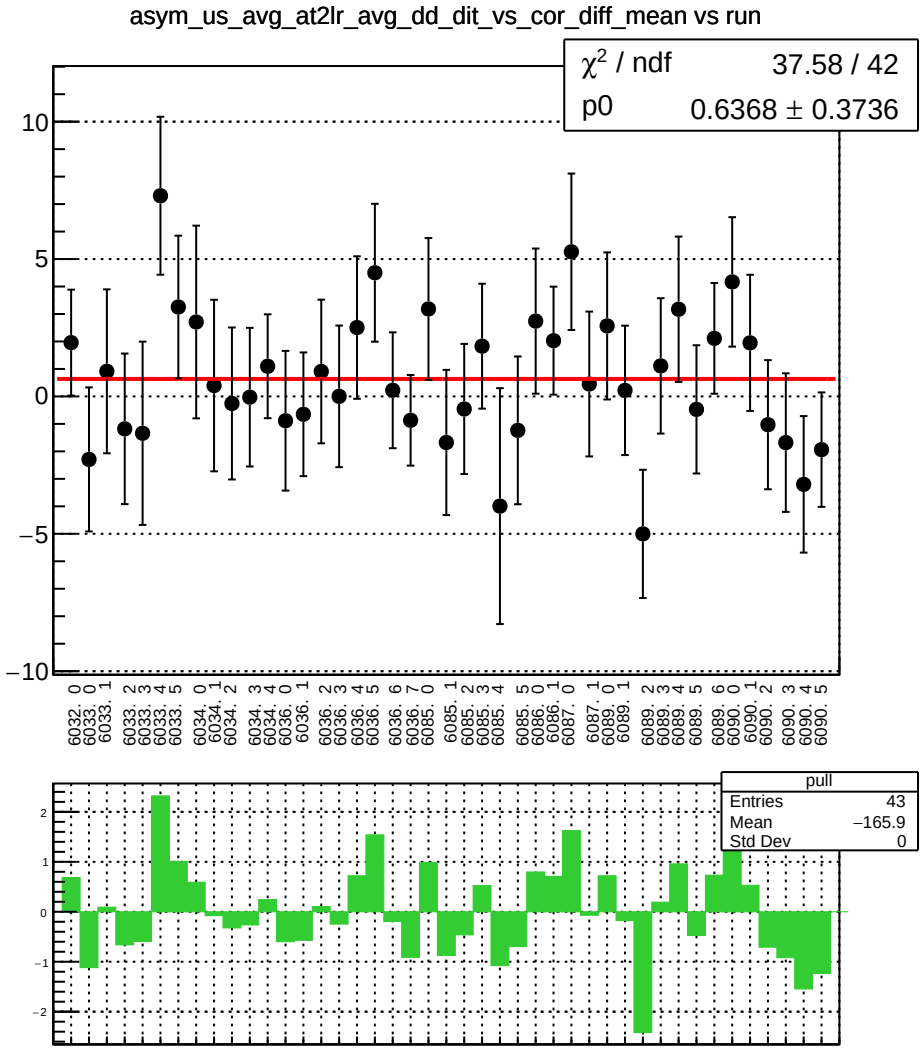

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 40.08 / 42
p0 3142 ± 8002
pull
Entries 43
Mean −67.26
Std Dev 0

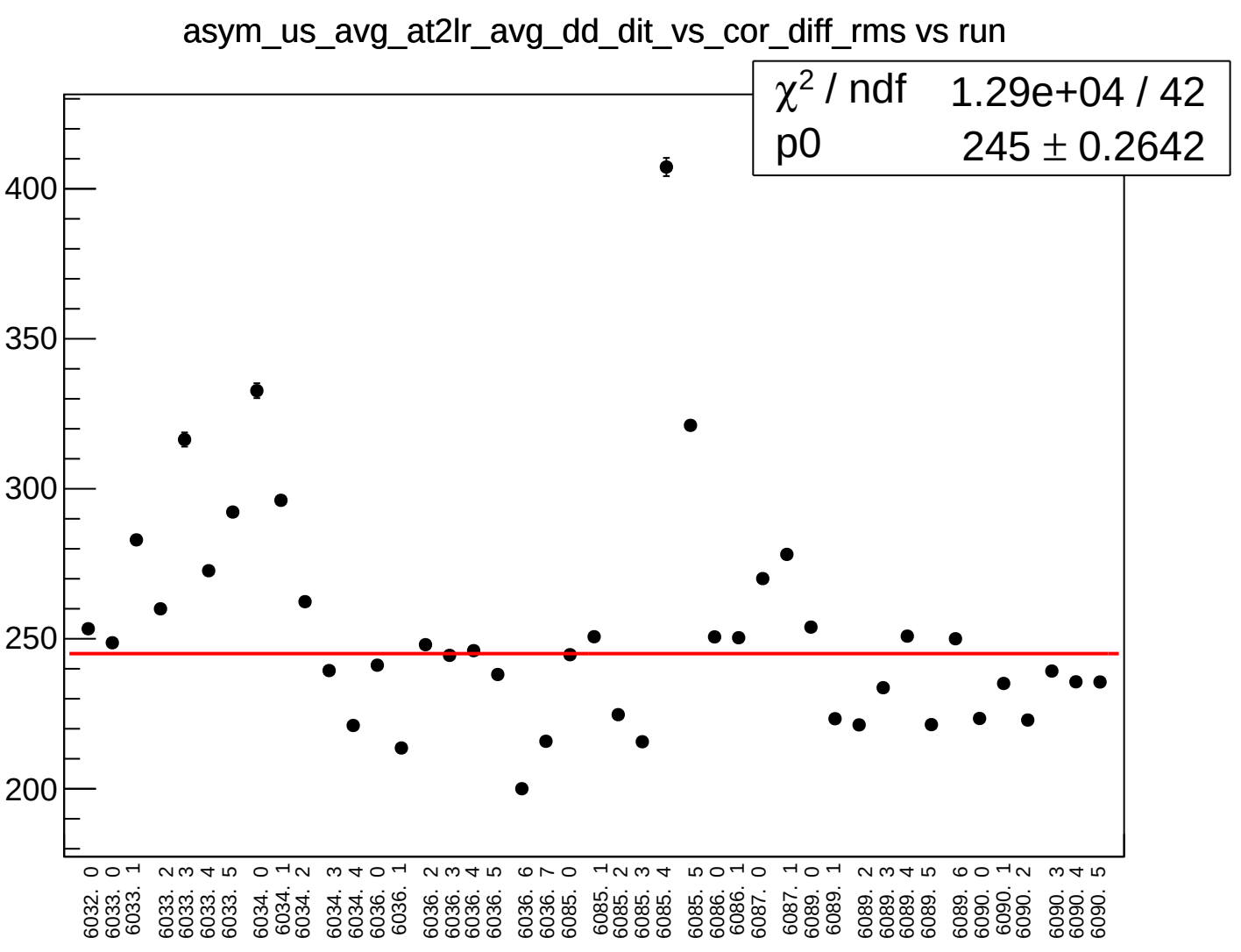

pull1D
Entries 43
Mean −0.03027
Std Dev 0.965

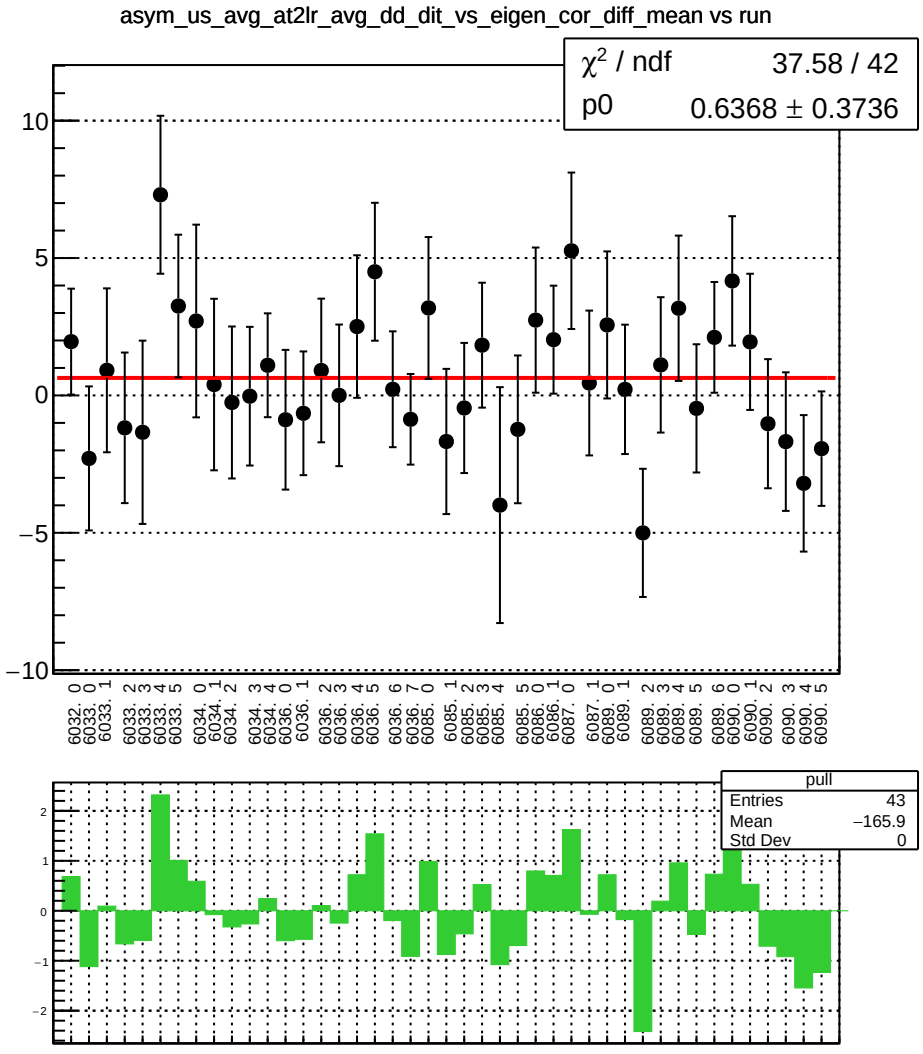

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 6247 / 42
p0 5268 ± 5.658
7000
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

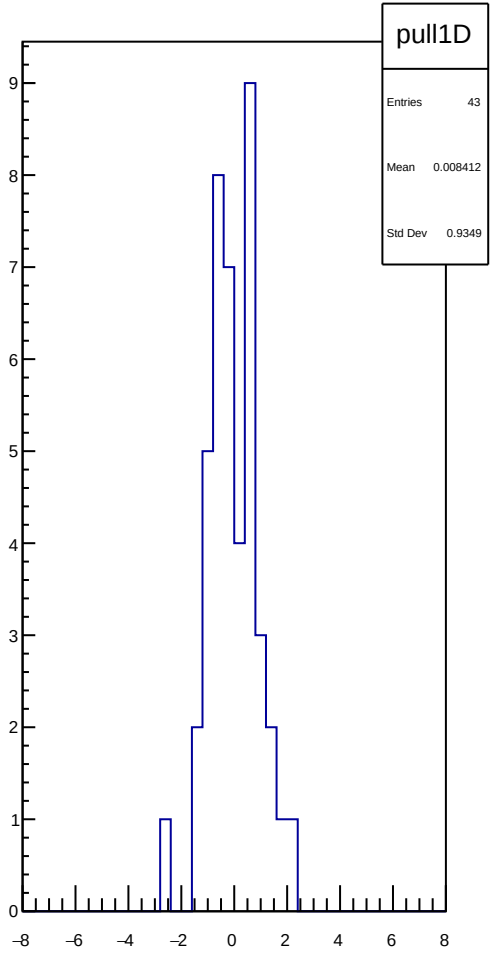

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.34 / 42
p0 1.195e−12 ± 4.894e−13
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 37.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.1997
Std Dev 0.8016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

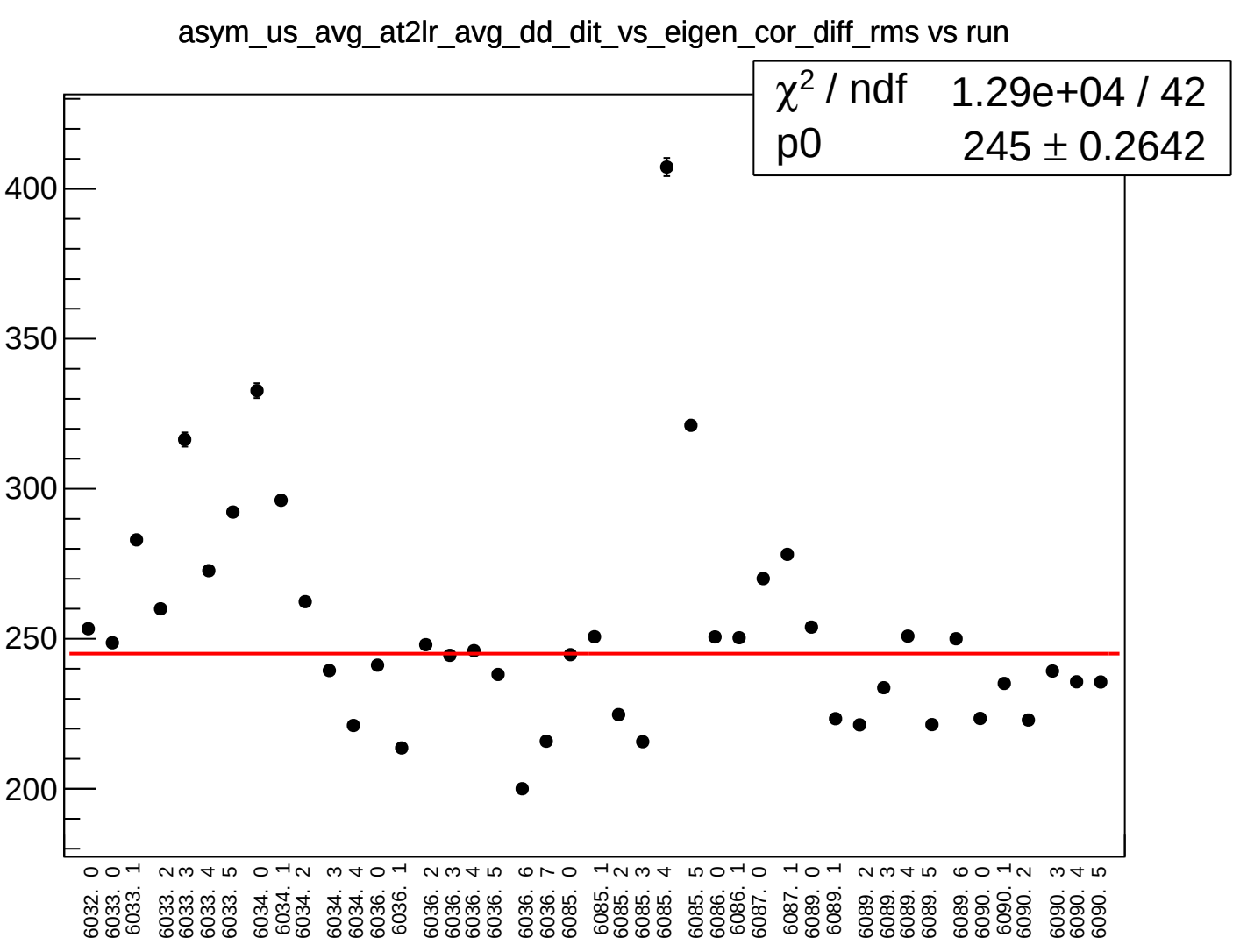

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.686e+05 / 42
p0 1.91e−10 ± 3.461e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

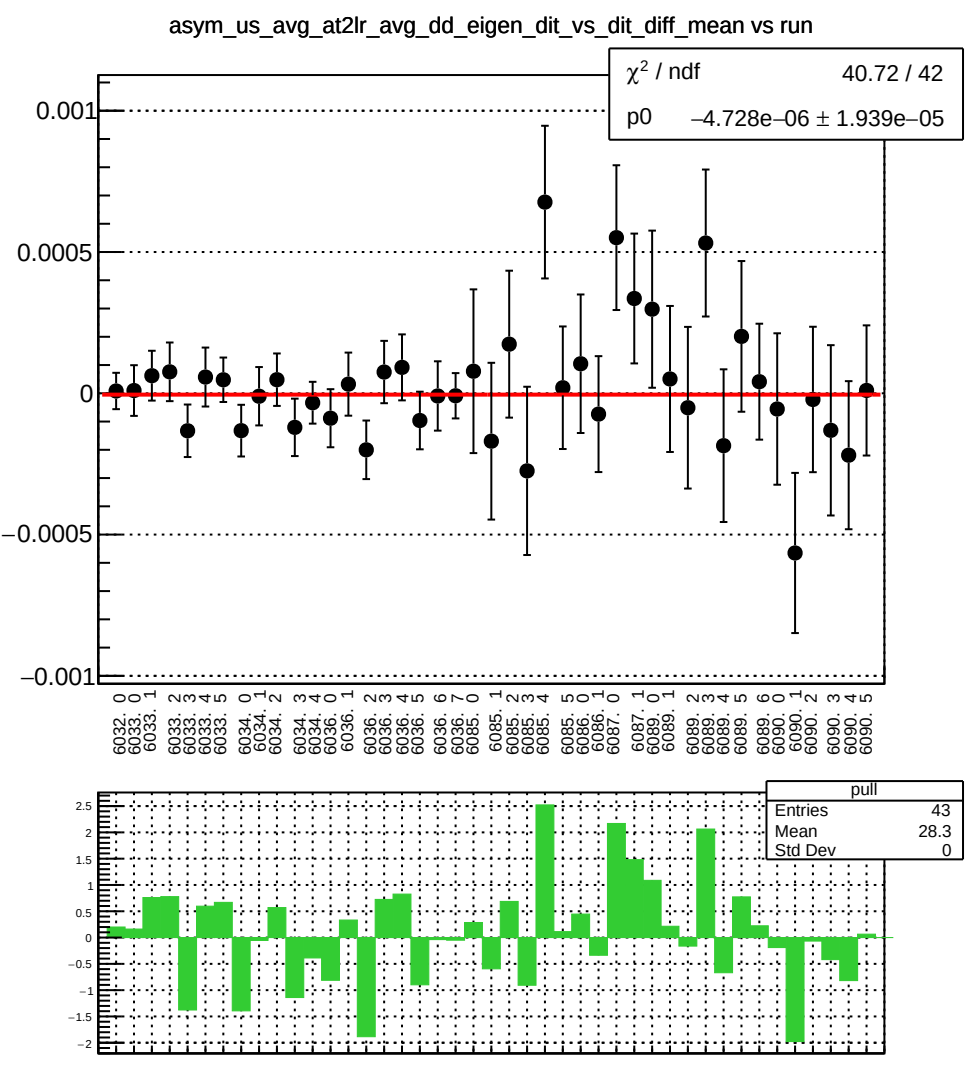

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.58 / 42
p0 0.6368 ± 0.3736
pull
Entries 43
Mean −165.9
Std Dev 0
pull1D
Entries 43
Mean 0.008412
Std Dev 0.9349

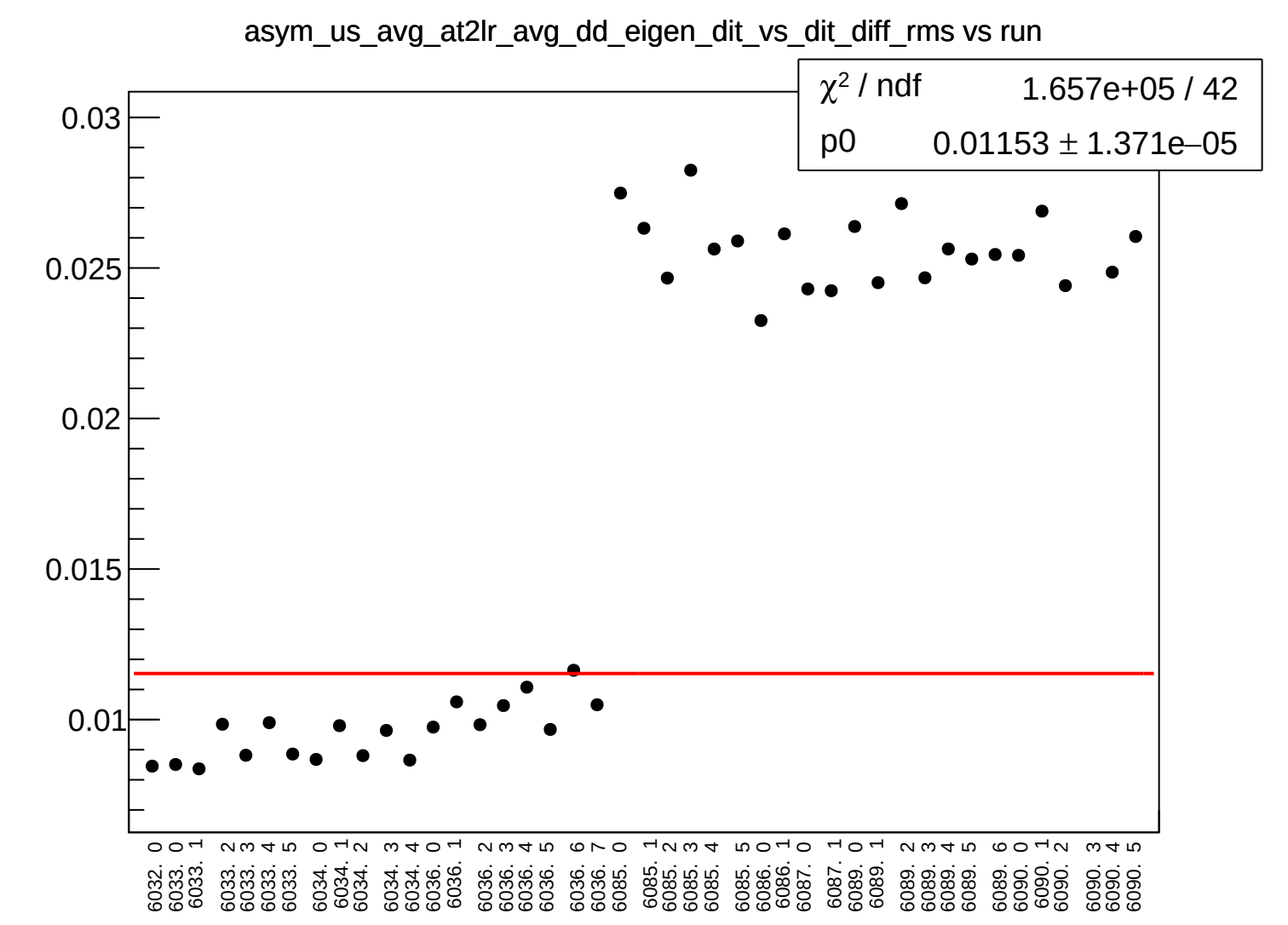

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 42
p0 245 ± 0.2642
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

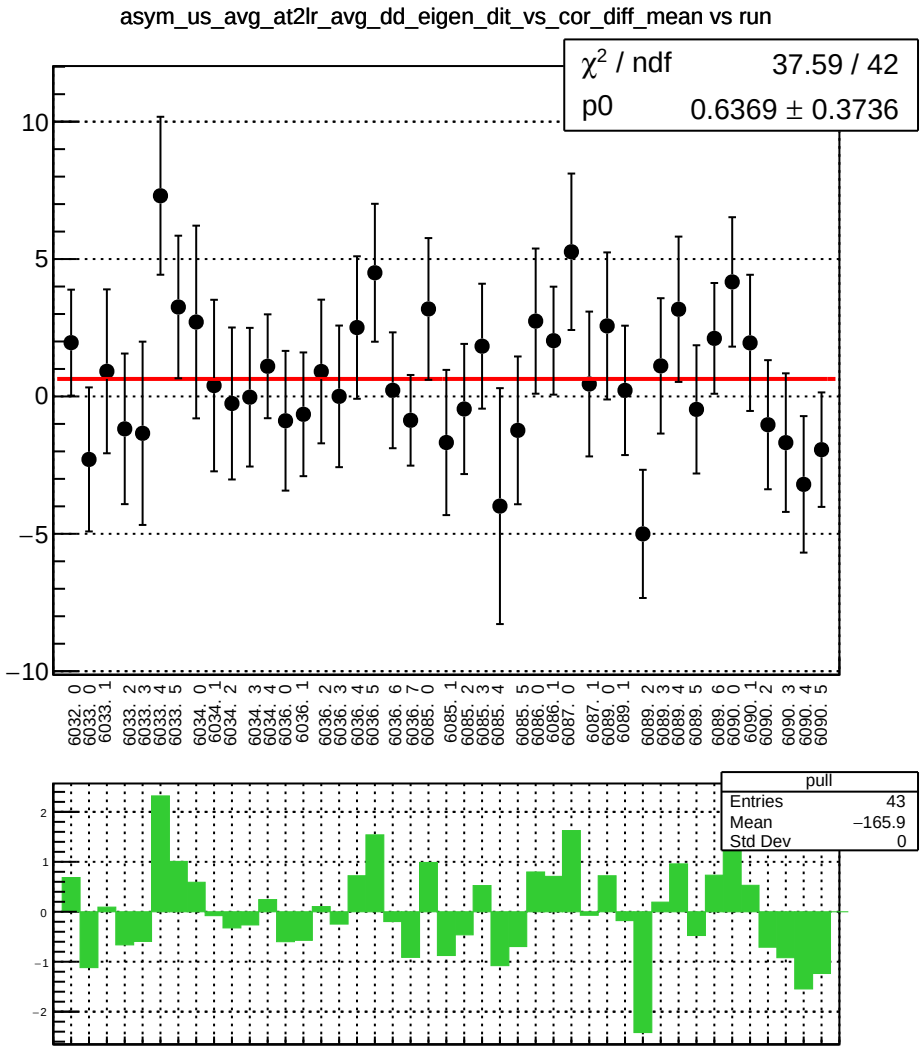

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.58 / 42
p0 0.6368 ± 0.3736
pull
Entries 43
Mean −165.9
Std Dev 0

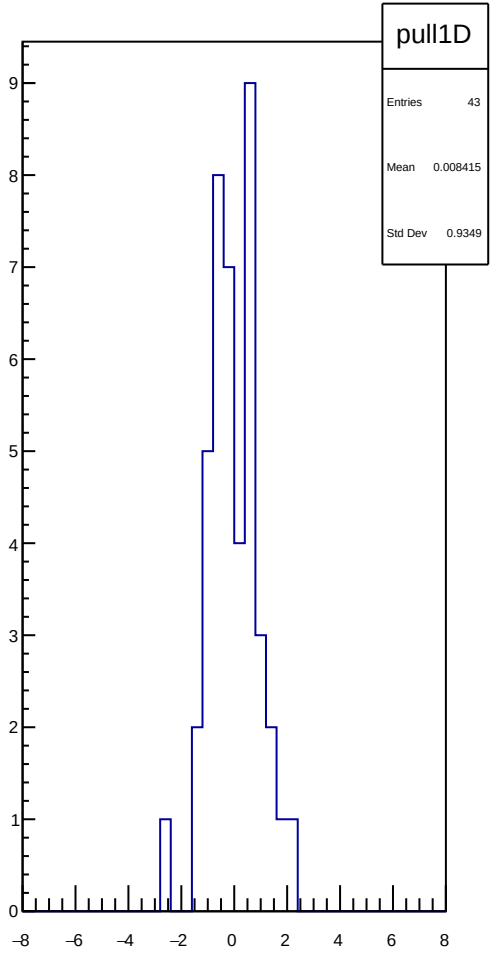

pull1D
Entries 43
Mean 0.008412
Std Dev 0.9349

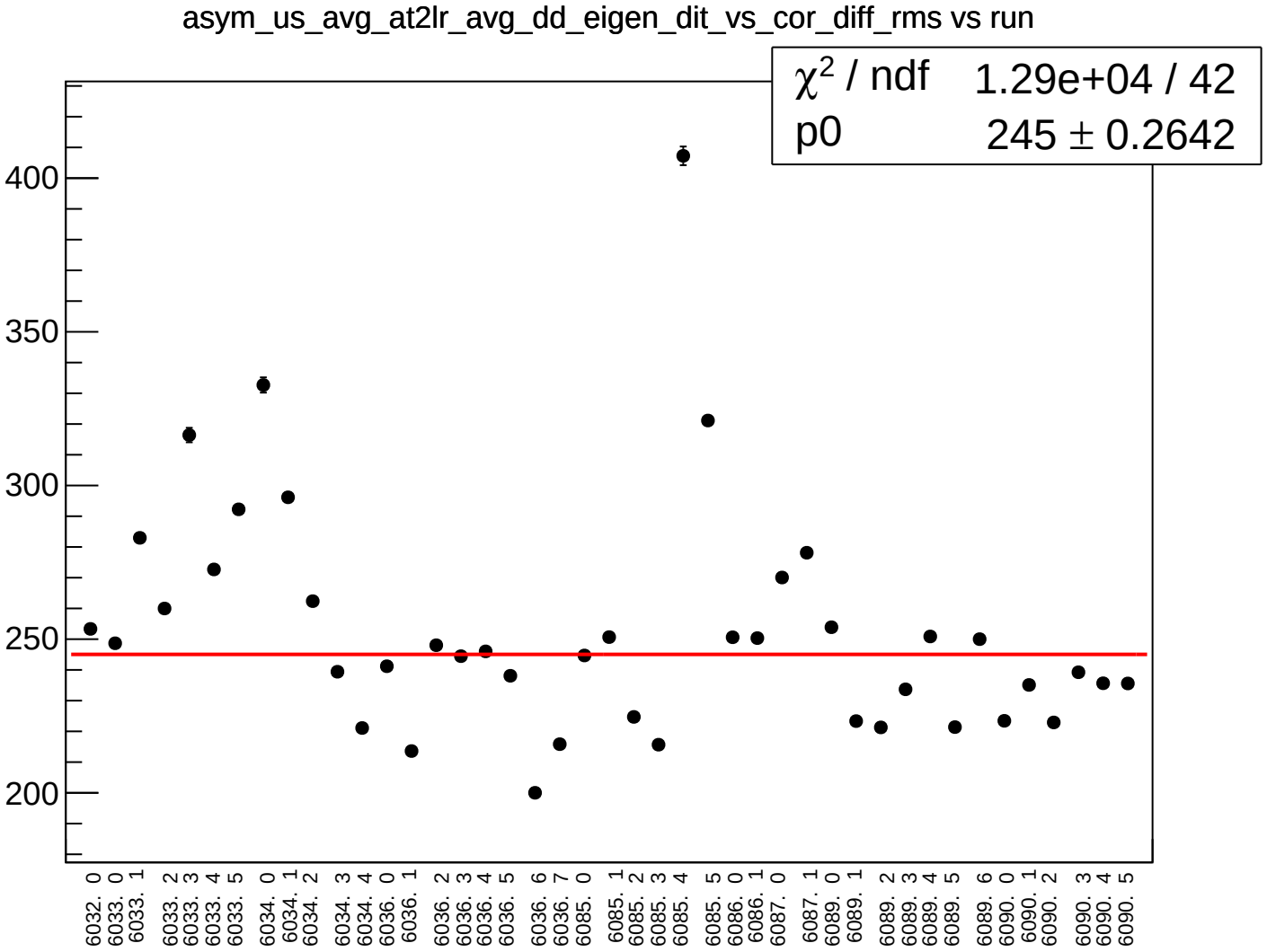

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 42
p0 245 ± 0.2642
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

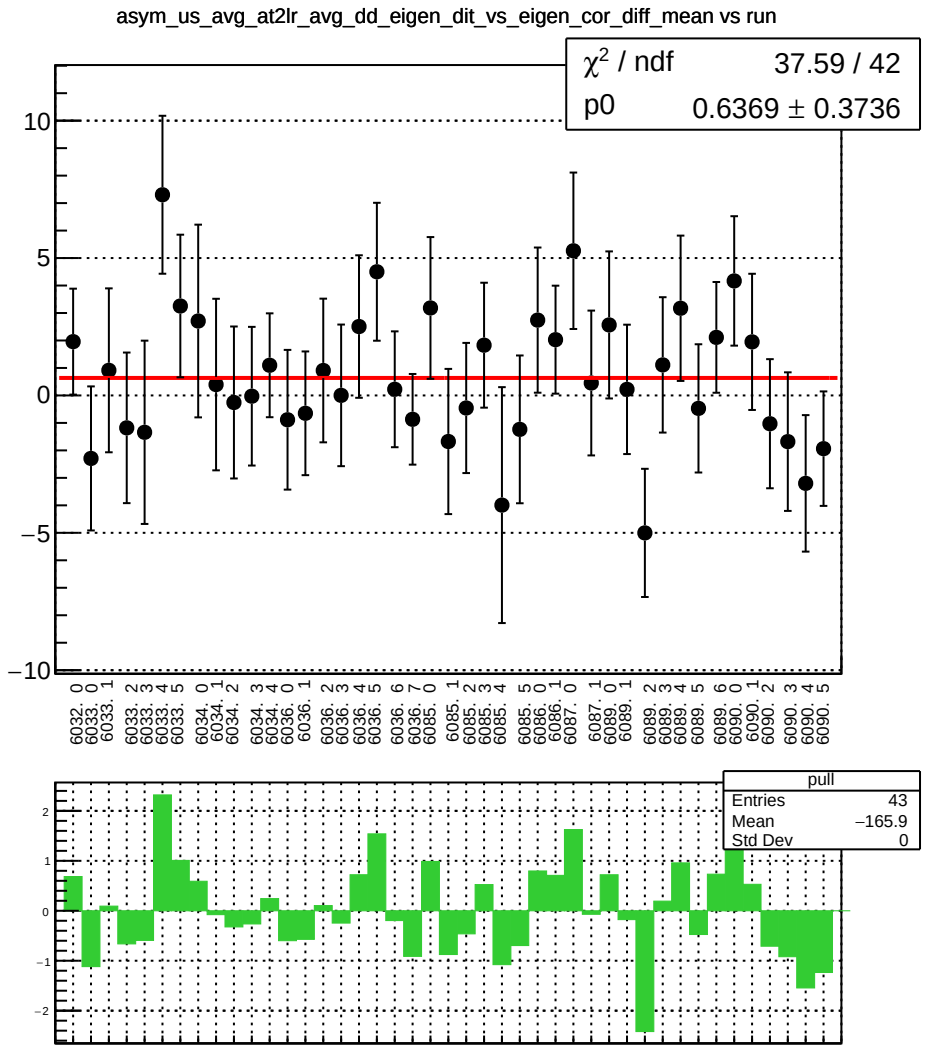

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 40.72 / 42
p0 −4.728e−06 ± 1.939e−05
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 28.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.08316
Std Dev 0.9696
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

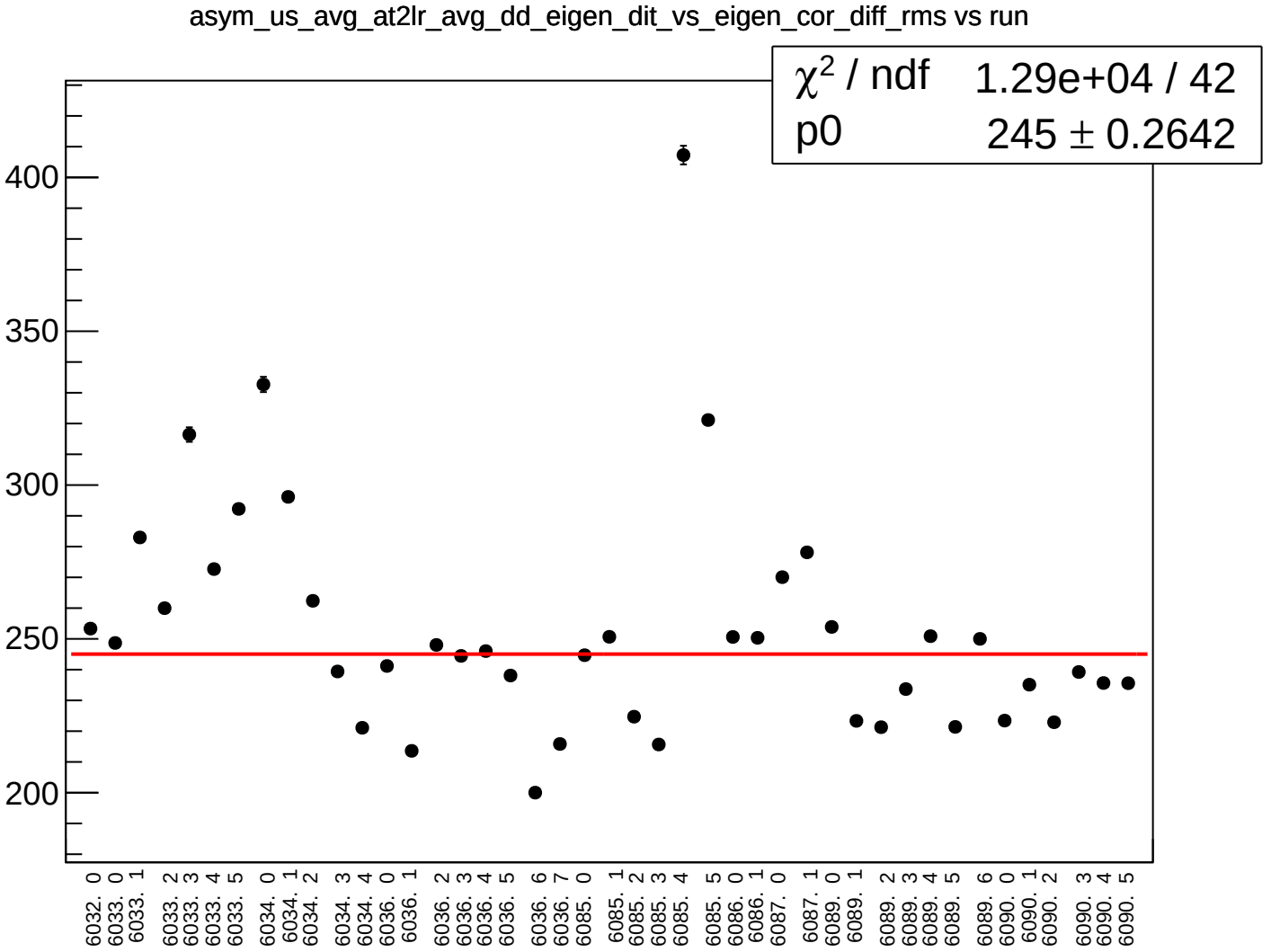

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.657e+05 / 42
p0 0.01153 ± 1.371e−05
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

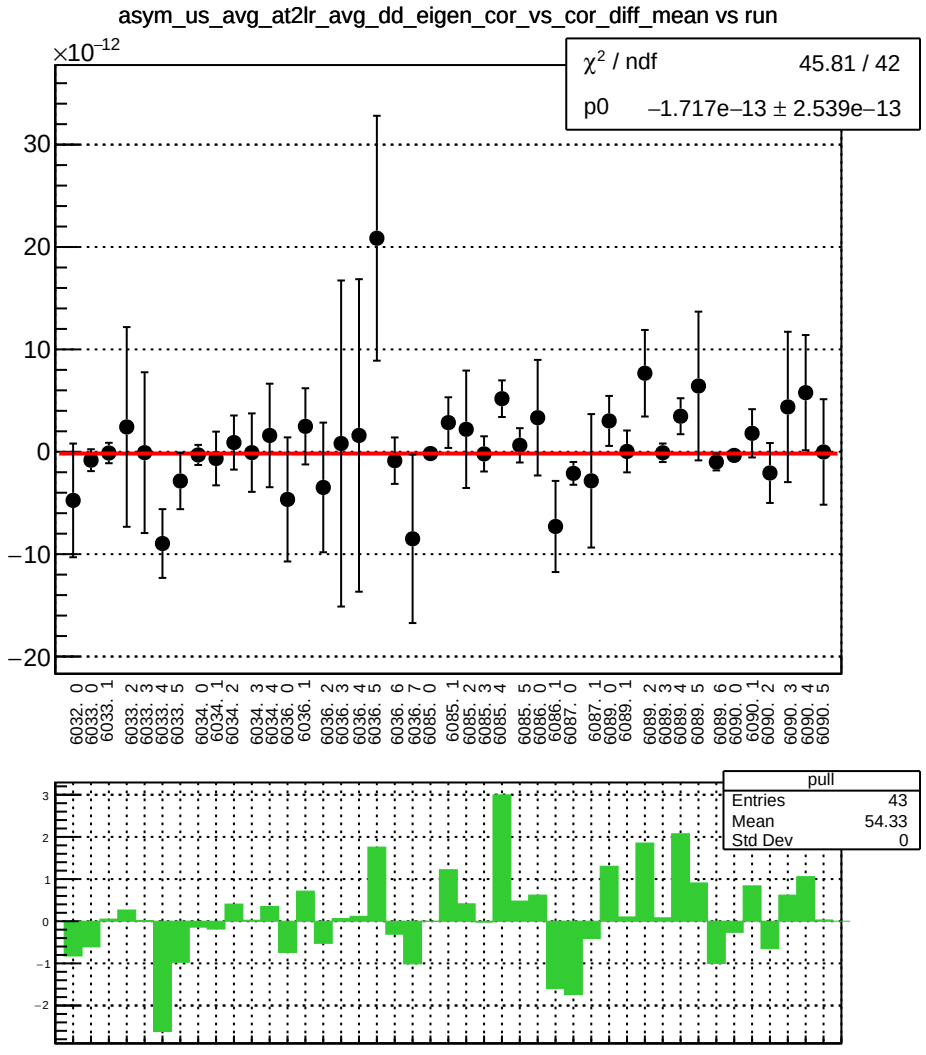

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.59 / 42
p0 0.6369 ± 0.3736
pull
Entries 43
Mean −165.9
Std Dev 0

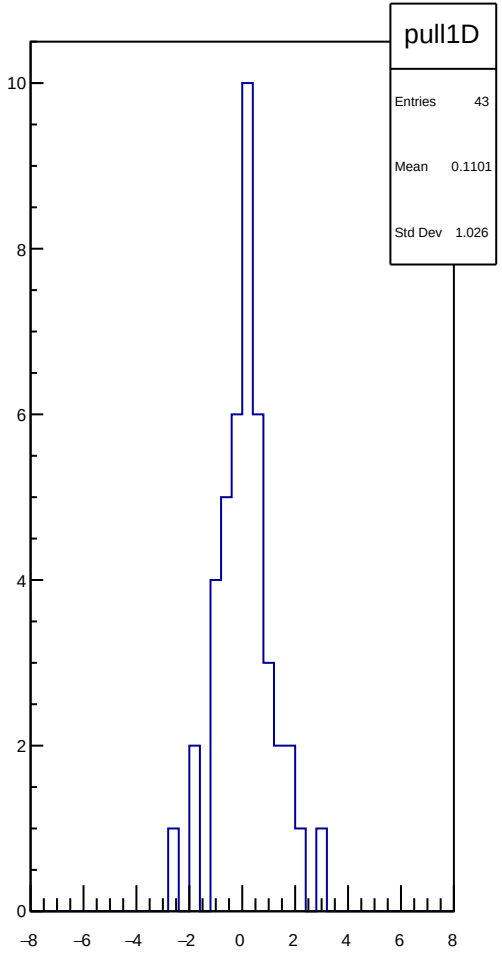

pull1D
Entries 43
Mean 0.008415
Std Dev 0.9349

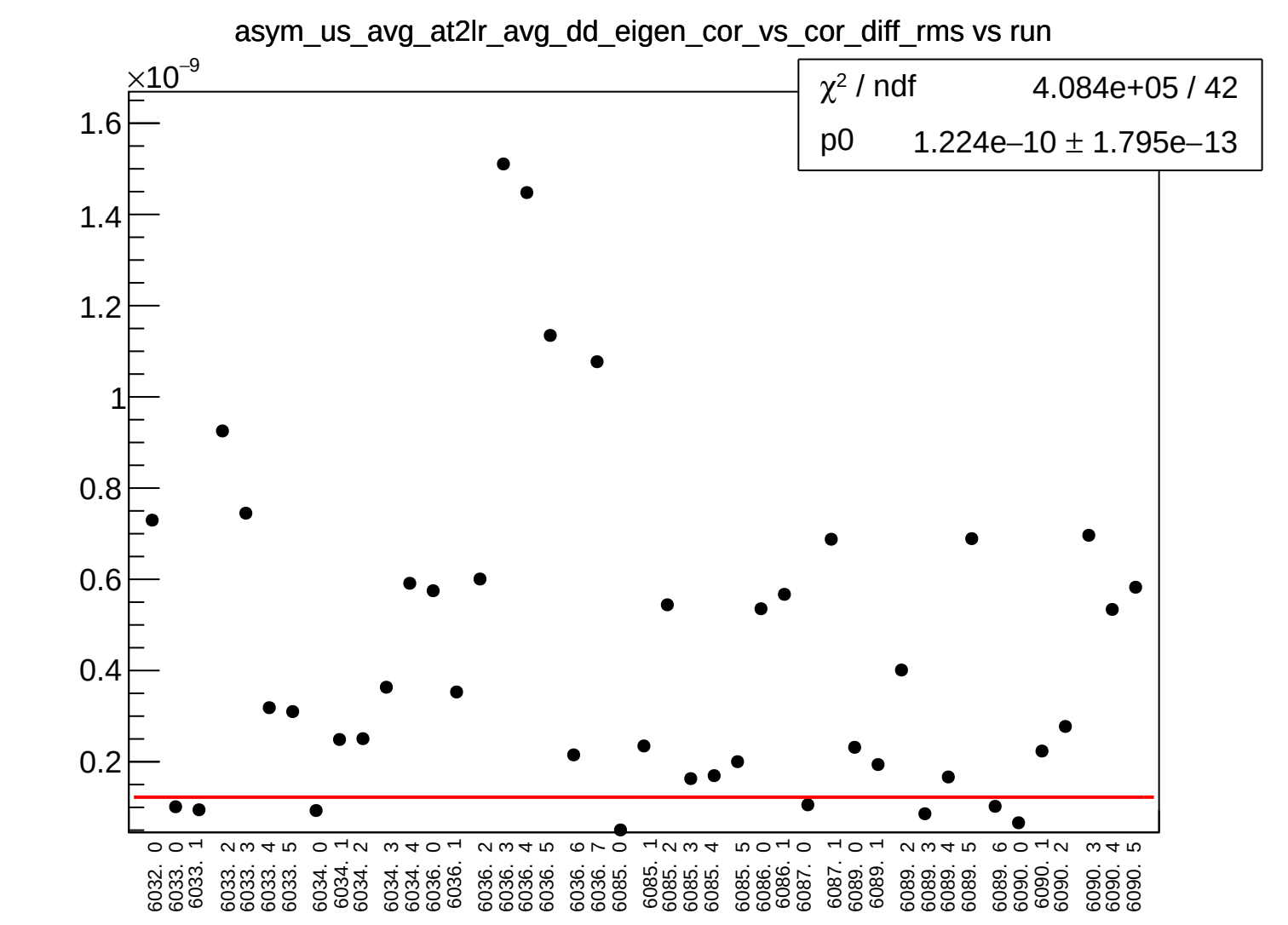

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 42
p0 245 ± 0.2642
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

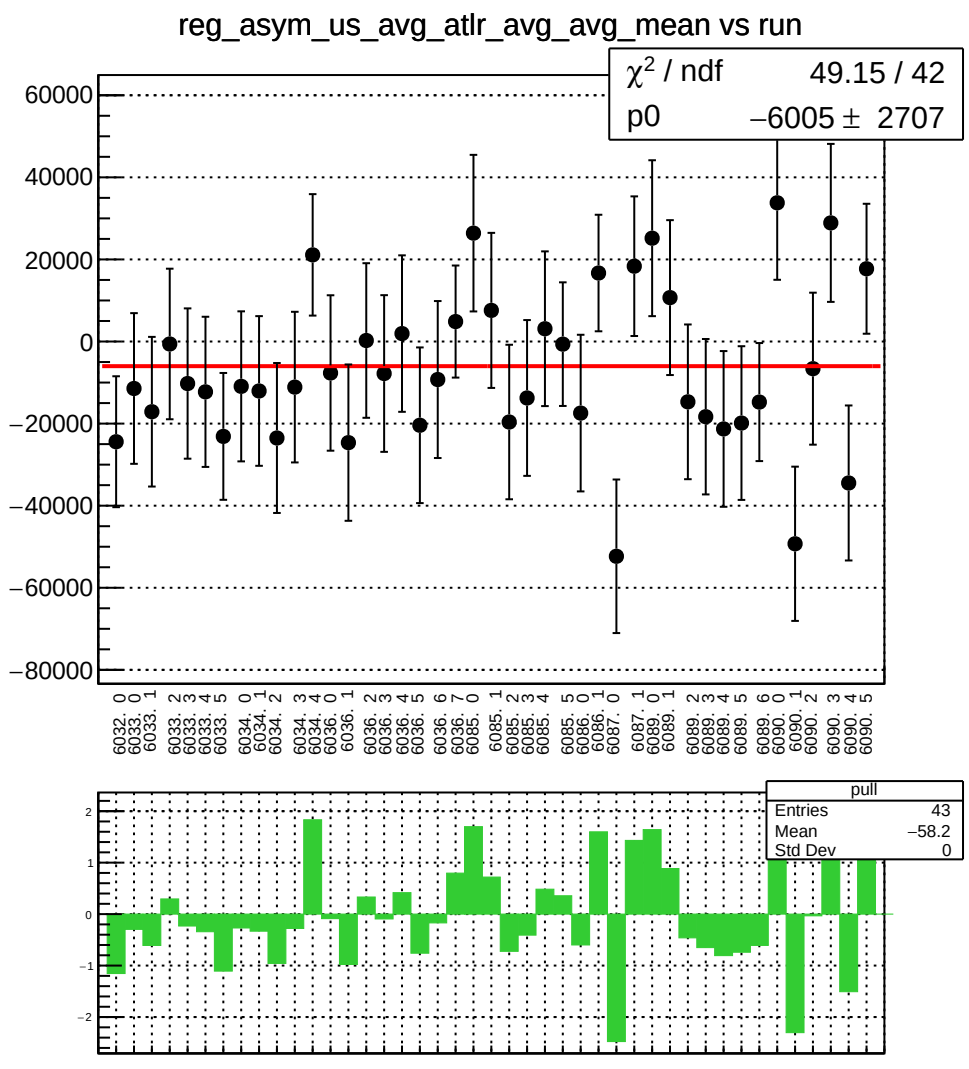

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.59 / 42
p0 0.6369 ± 0.3736
pull
Entries 43
Mean −165.9
Std Dev 0
pull1D
Entries 43
Mean 0.008415
Std Dev 0.9349

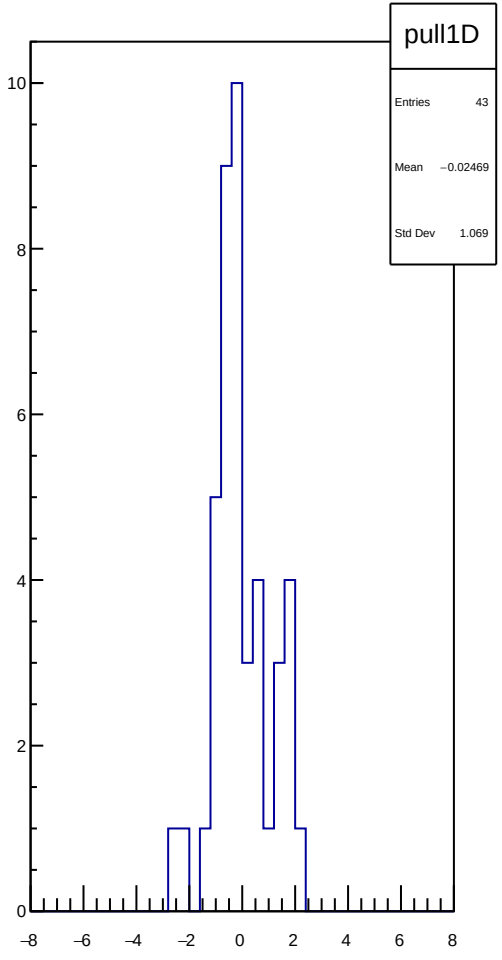

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.29e+04 / 42
p0 245 ± 0.2642
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

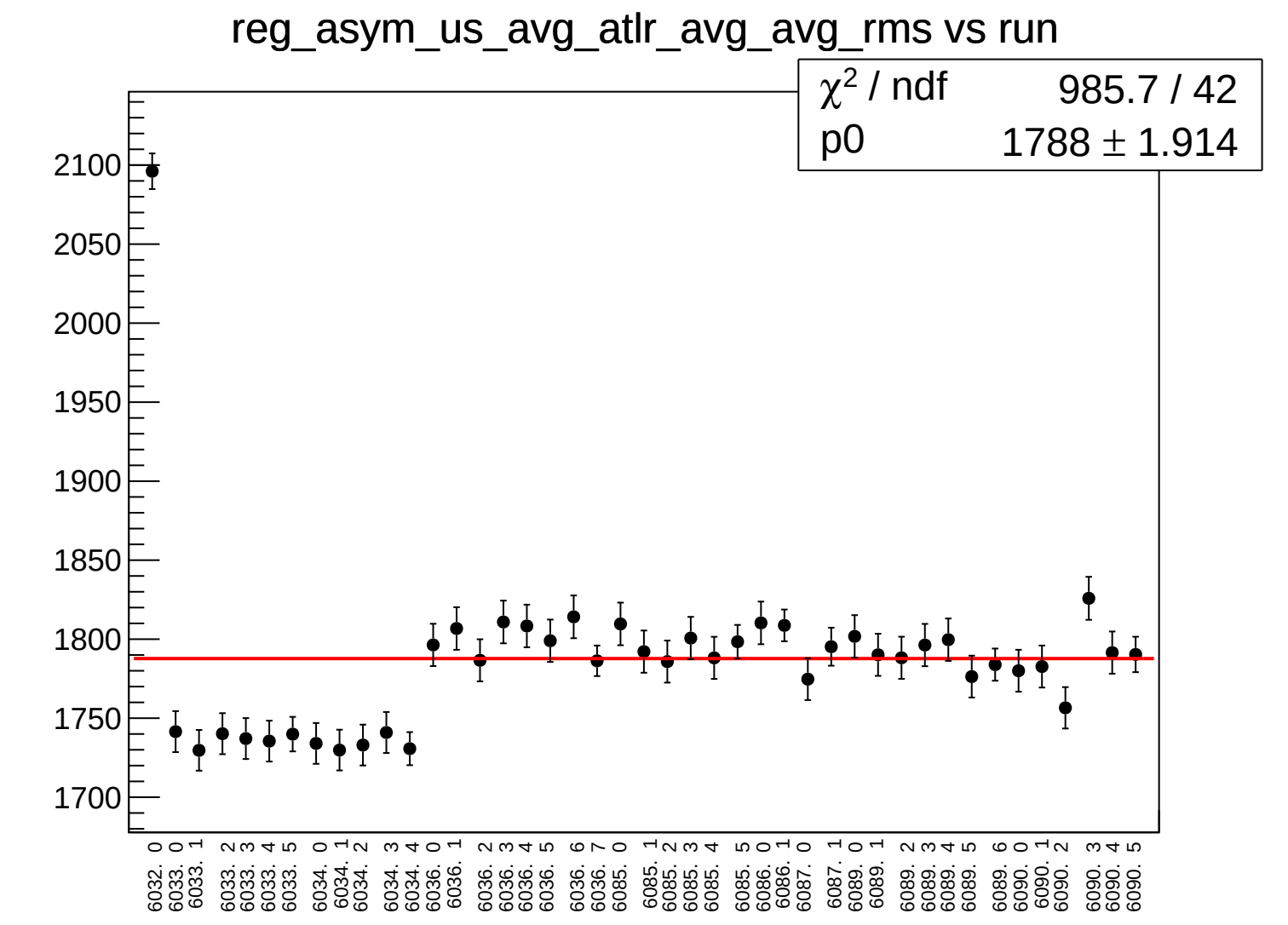

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.81 / 42
p0 −1.717e−13 ± 2.539e−13
pull
Entries 43
Mean 54.33
Std Dev 0

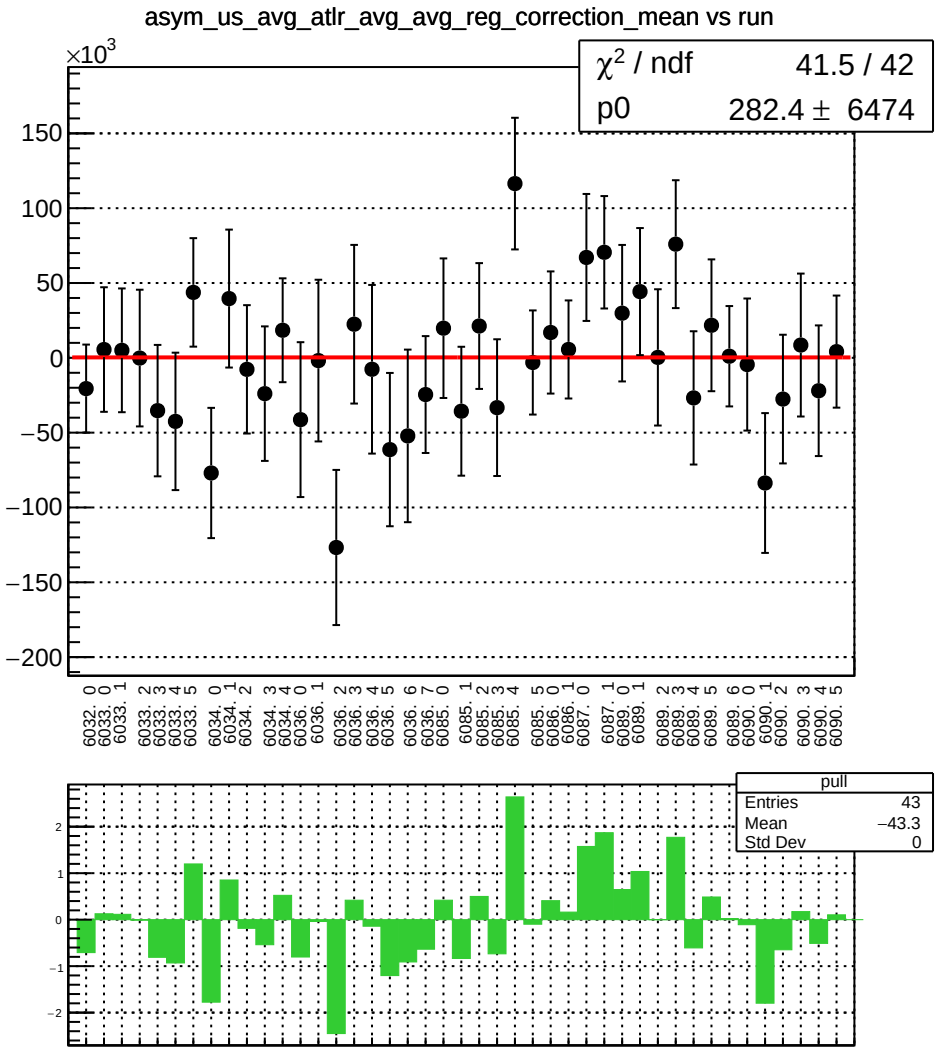

pull1D
Entries 43
Mean 0.1101
Std Dev 1.026

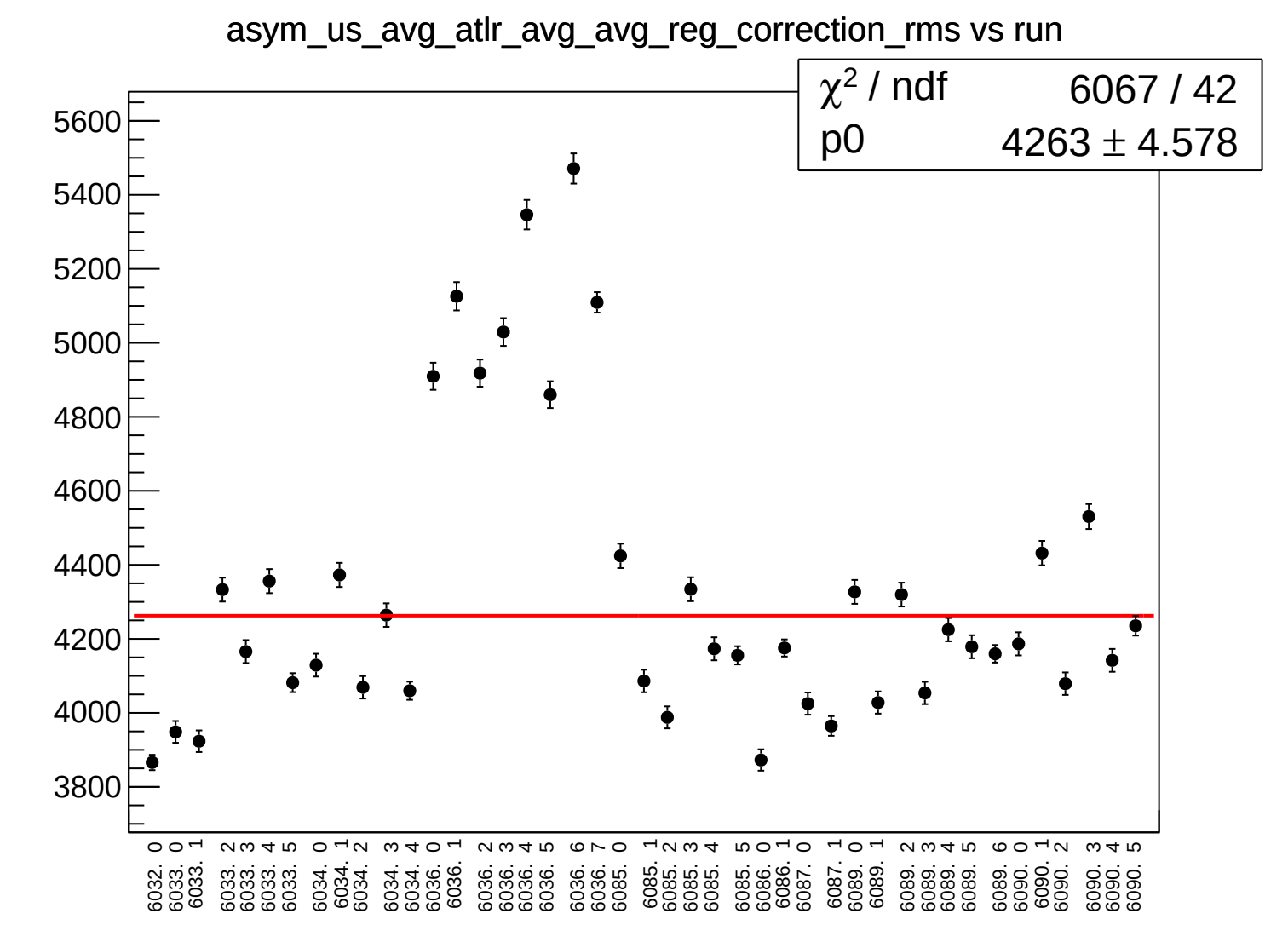

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.084e+05 / 42
p0 1.224e−10 ± 1.795e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

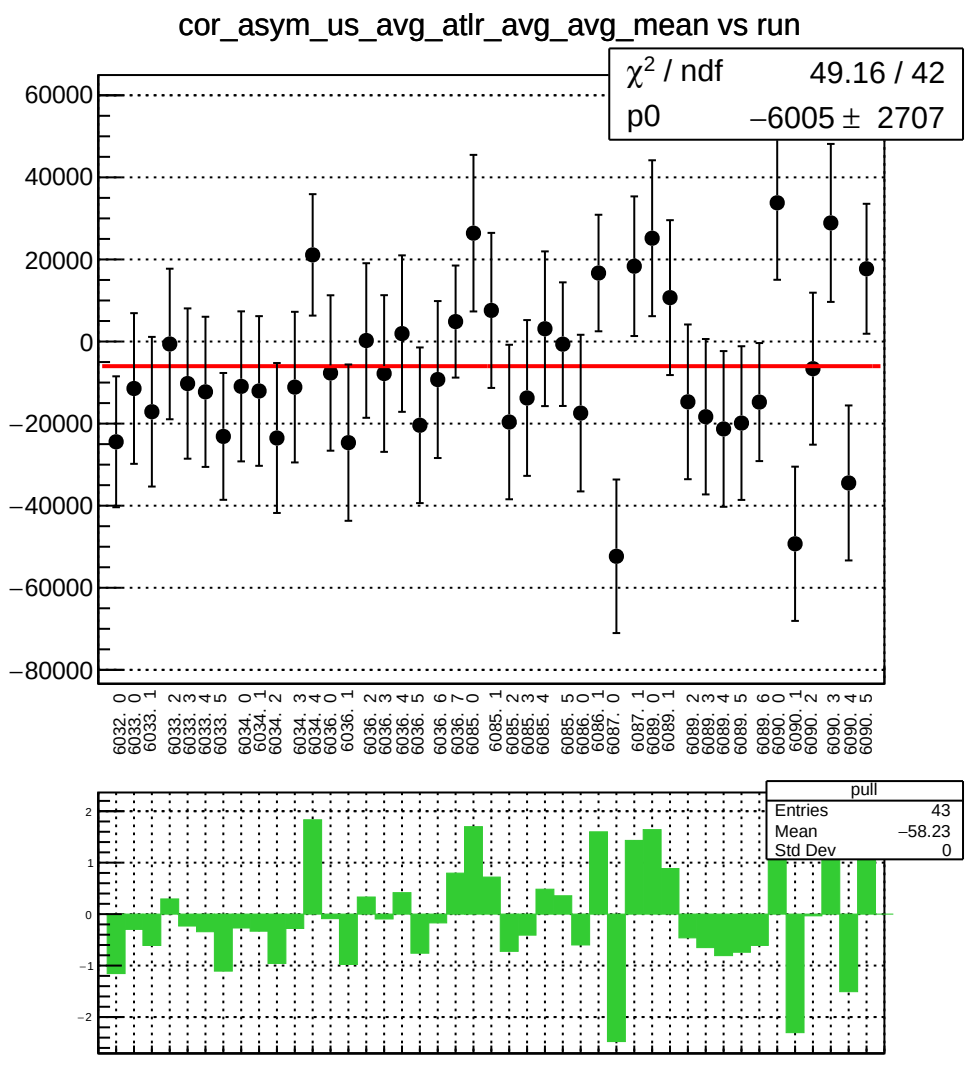

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 49.15 / 42
p0 −6005 ± 2707
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −58.2
Std Dev 0
2
1
0
−1
−2

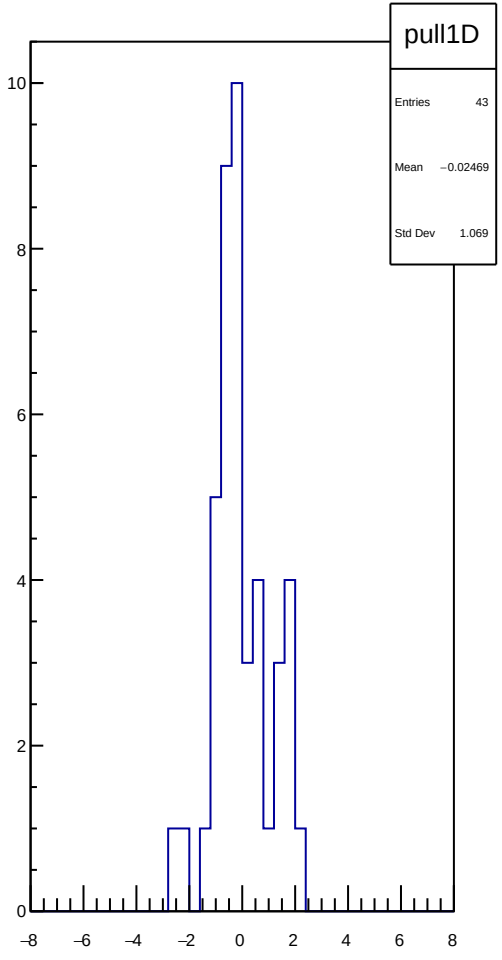

pull1D
Entries 43
Mean −0.02469
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

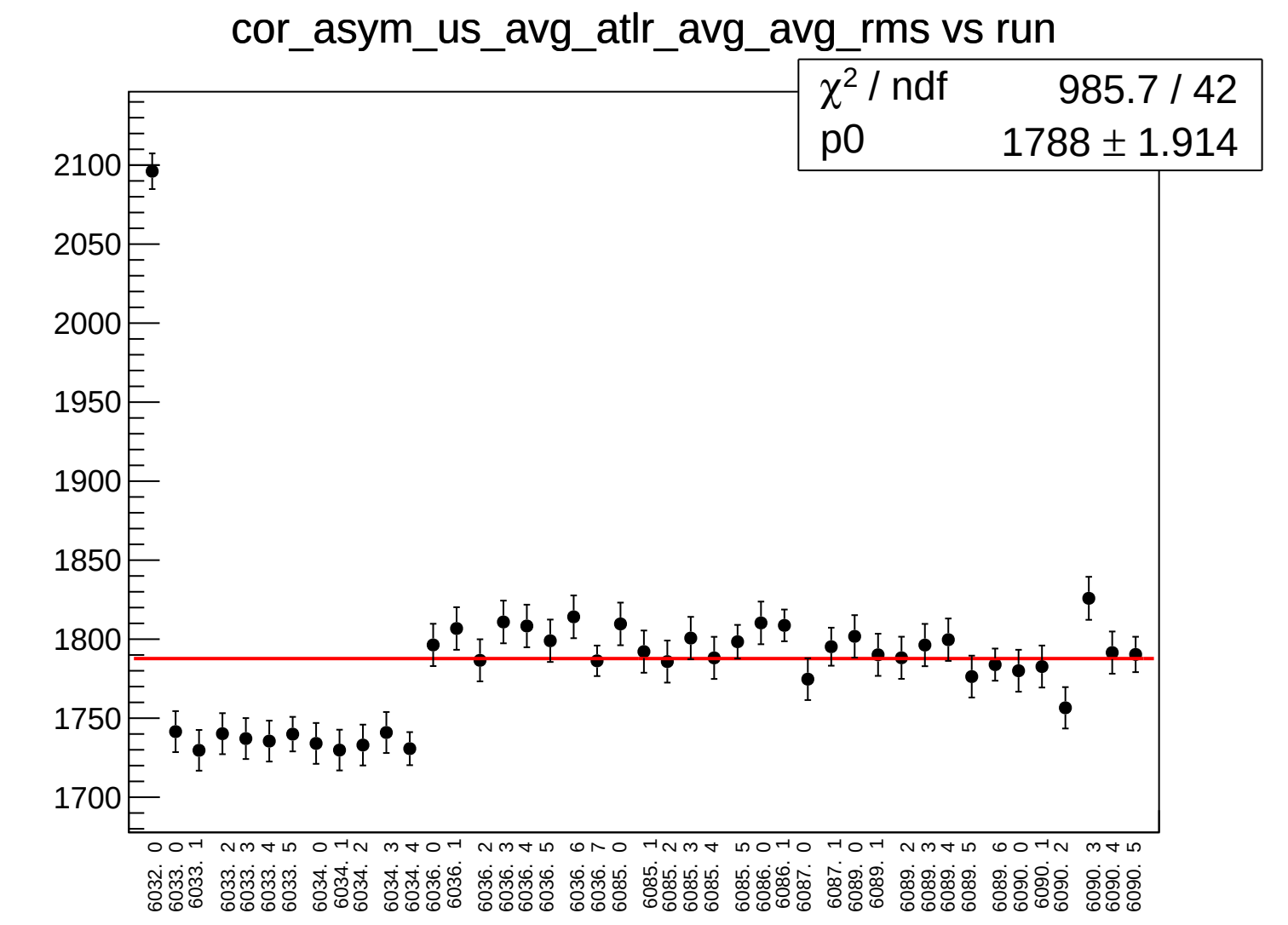

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 985.7 / 42
p0 1788 ± 1.914
2100
2050
2000
1950
1900
1850
1800
1750
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

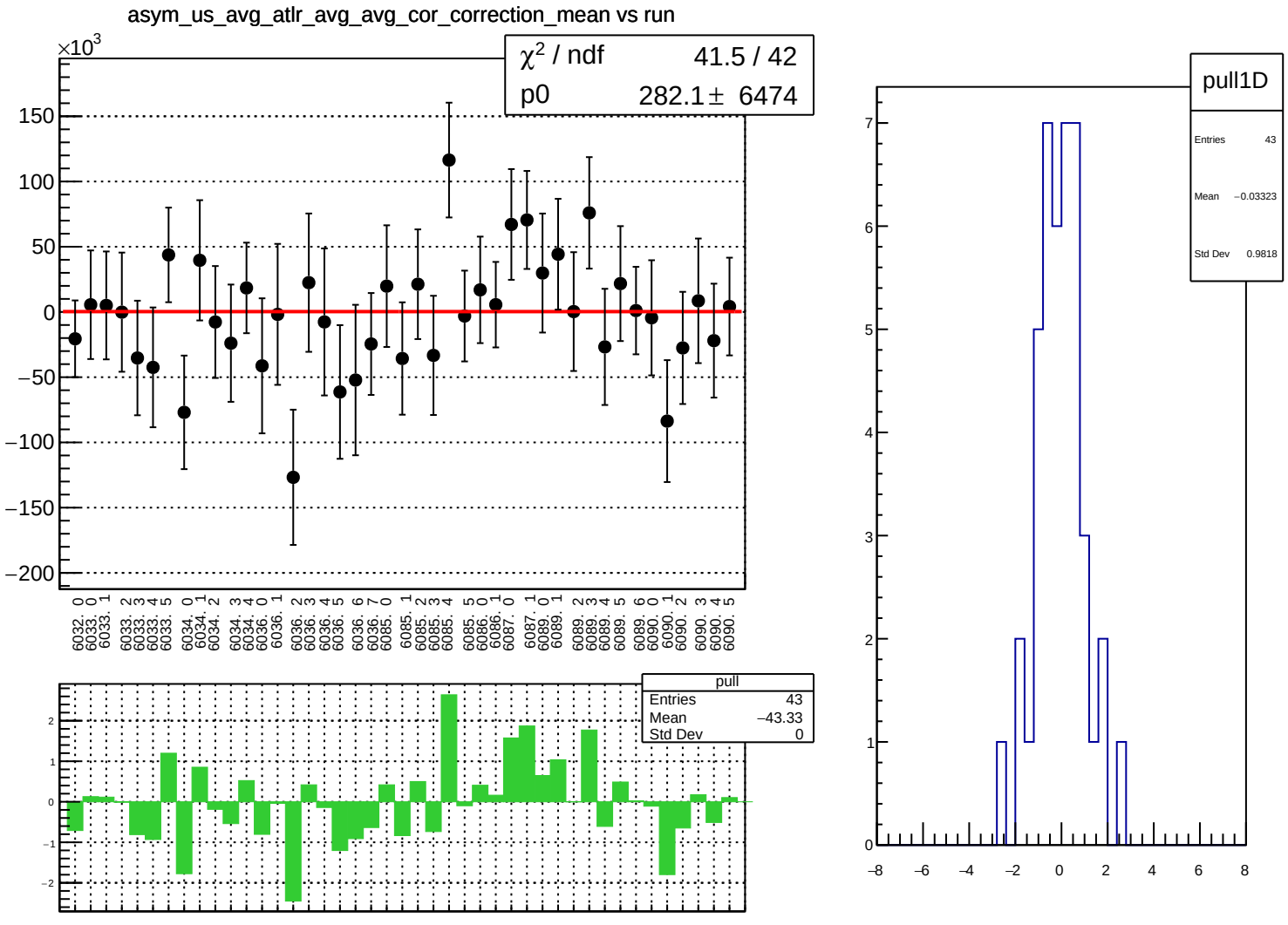

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 41.5 / 42
p0 282.4 ± 6474
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −43.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03323
Std Dev 0.9818
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

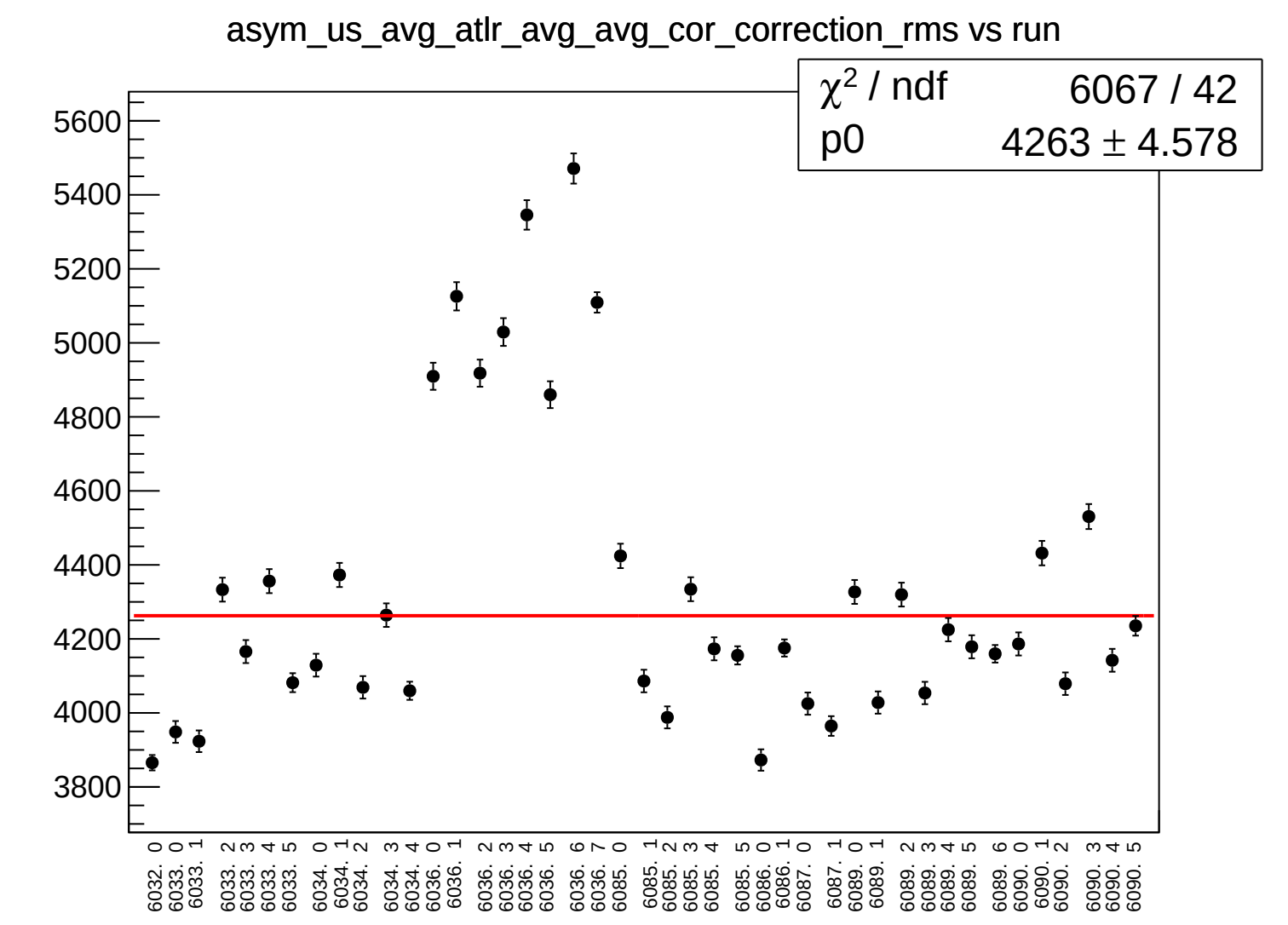

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 6067 / 42
p0 4263 ± 4.578
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

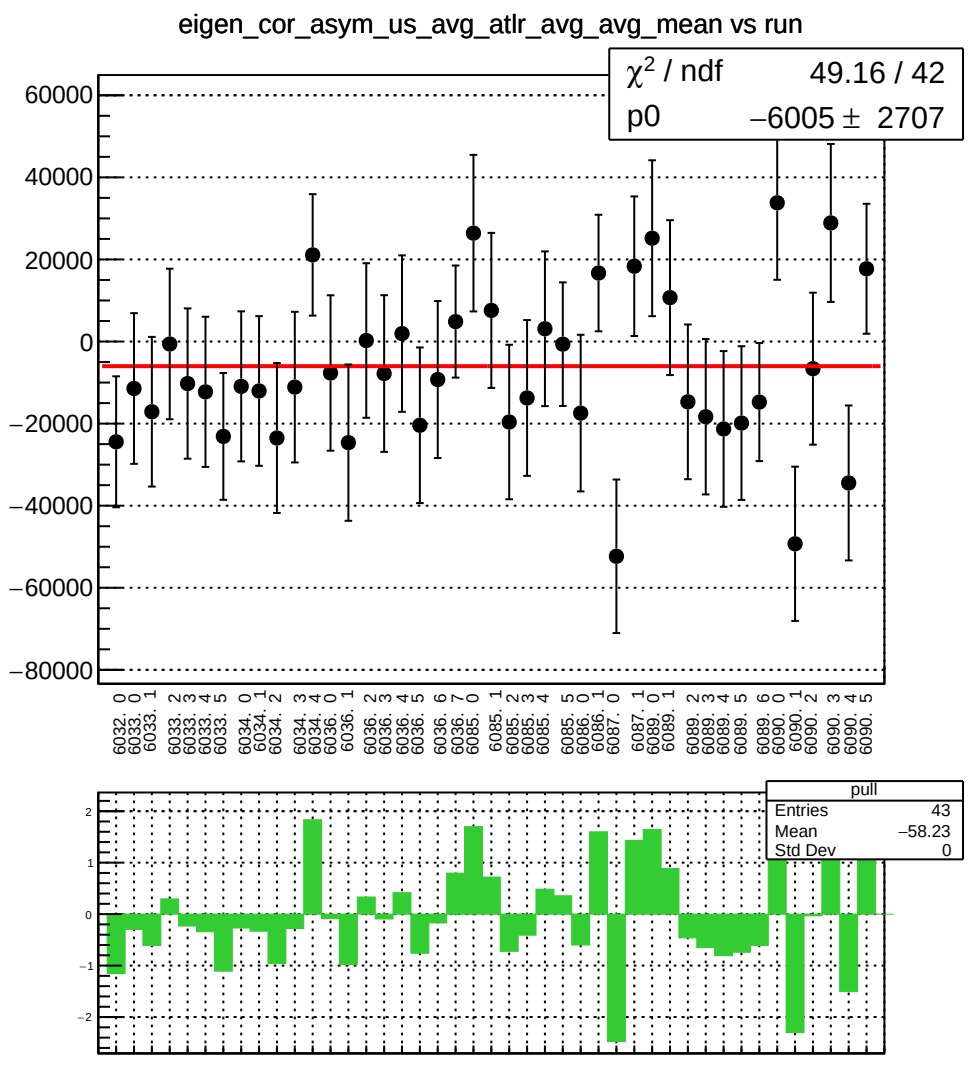

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 49.16 / 42
p0 −6005 ± 2707
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −58.23
Std Dev 0
2
1
0
−1
−2

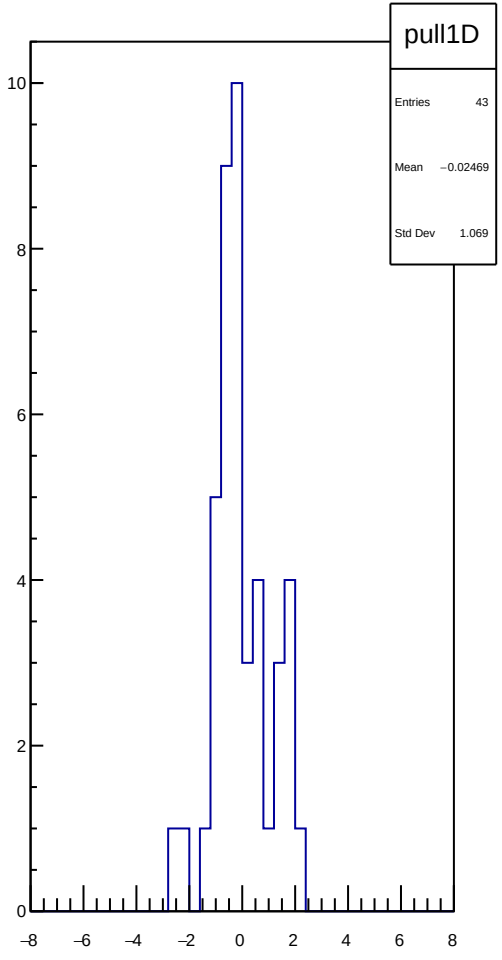

pull1D
Entries 43
Mean −0.02469
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

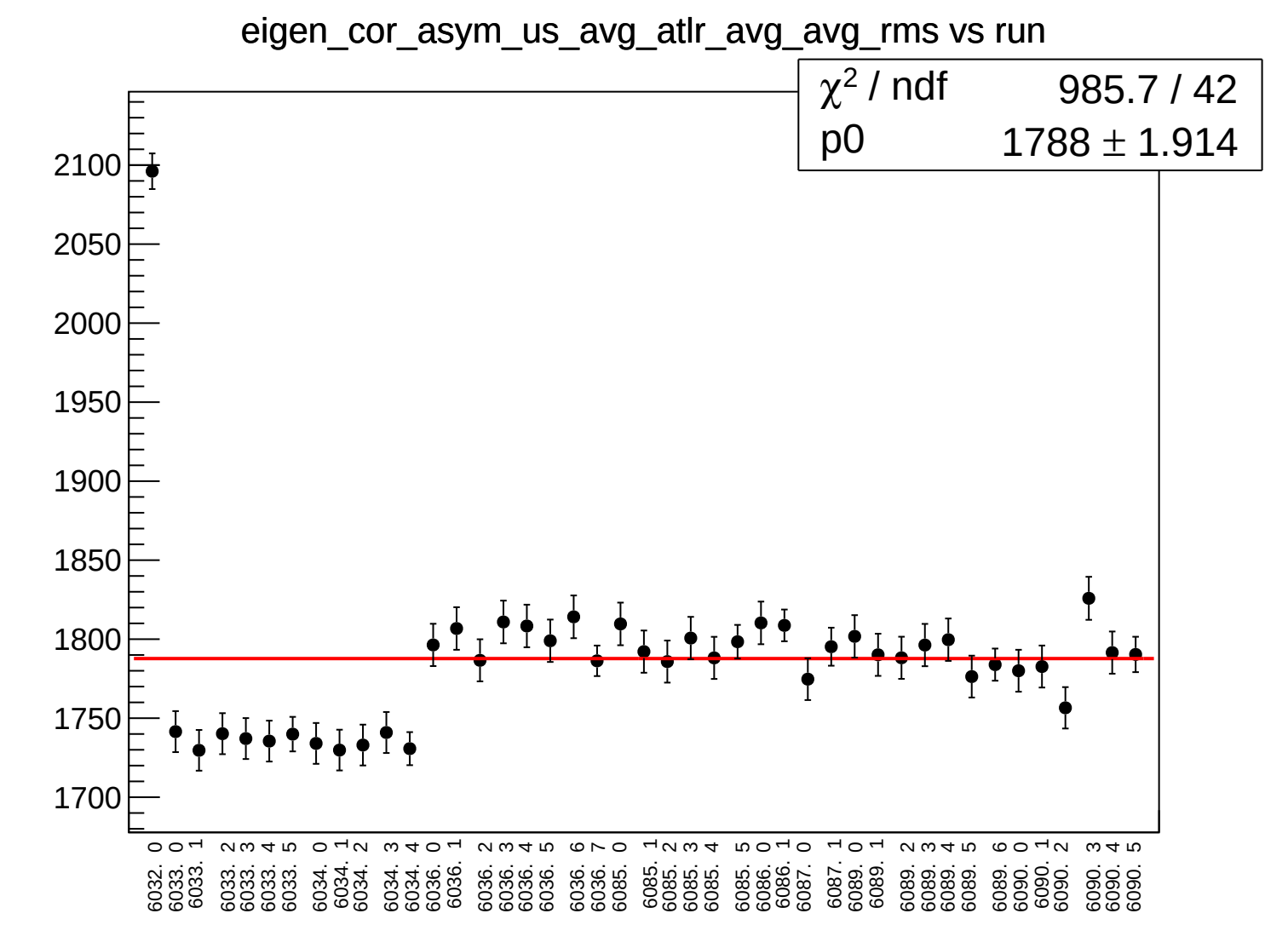

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 985.7 / 42
p0 1788 ± 1.914
2100
2050
2000
1950
1900
1850
1800
1750
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

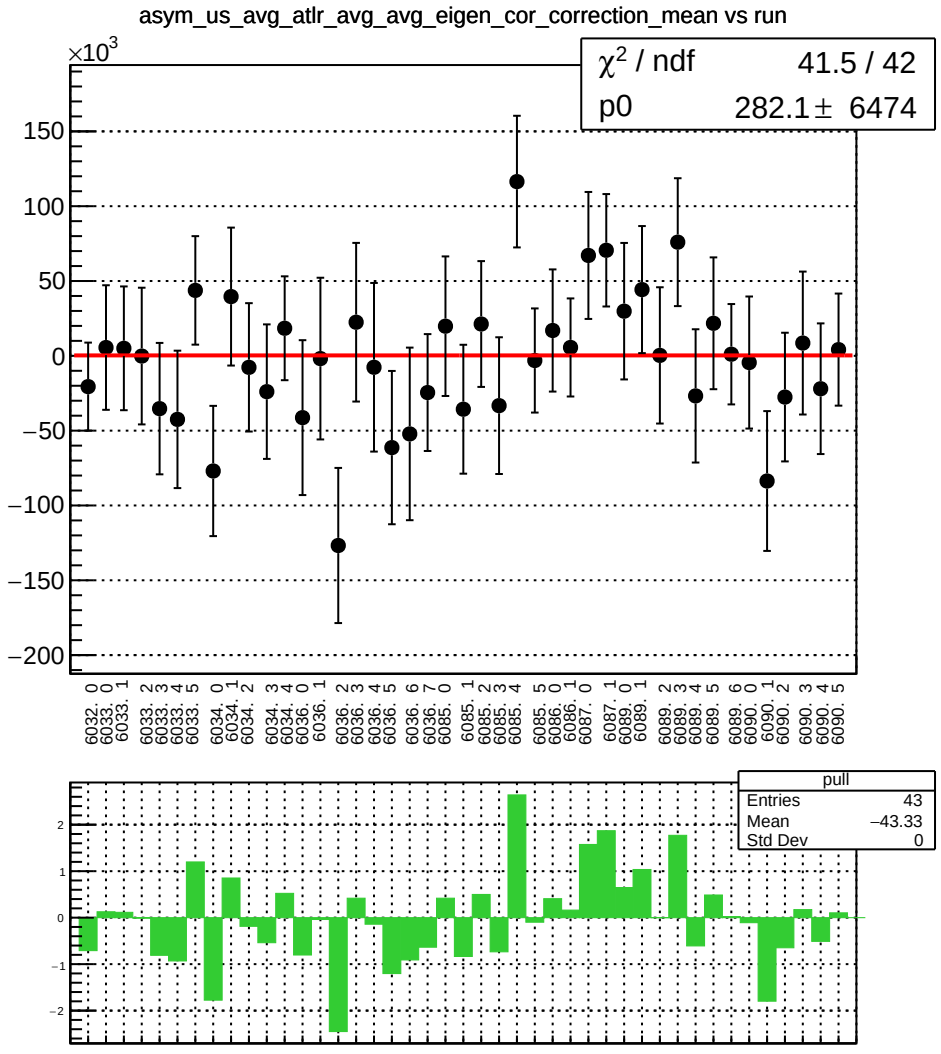

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 41.5 / 42
p0 282.1 ± 6474
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −43.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03323
Std Dev 0.9818
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

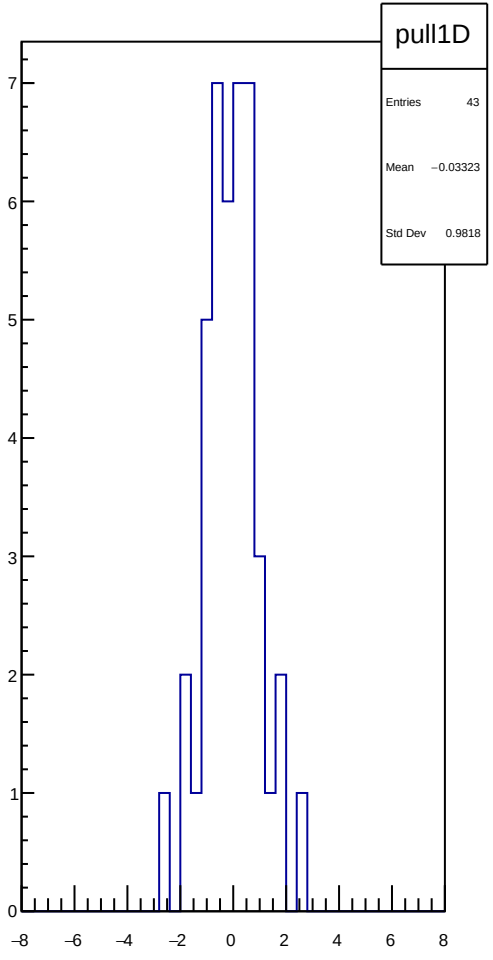

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 6067 / 42
p0 4263 ± 4.578
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

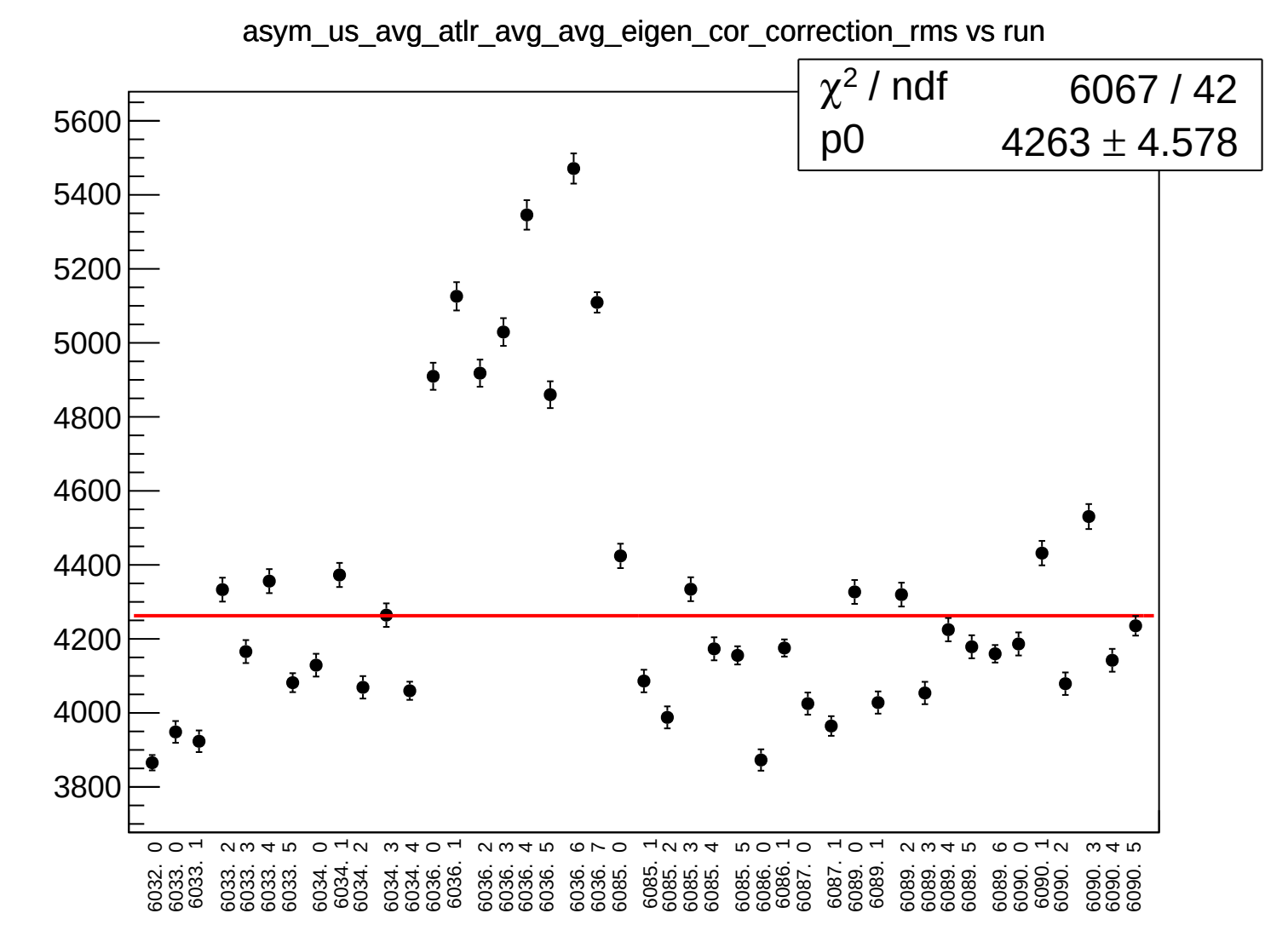

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 49.16 / 42
p0 −6005 ± 2707
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −58.23
Std Dev 0
2
1
0
−1
−2

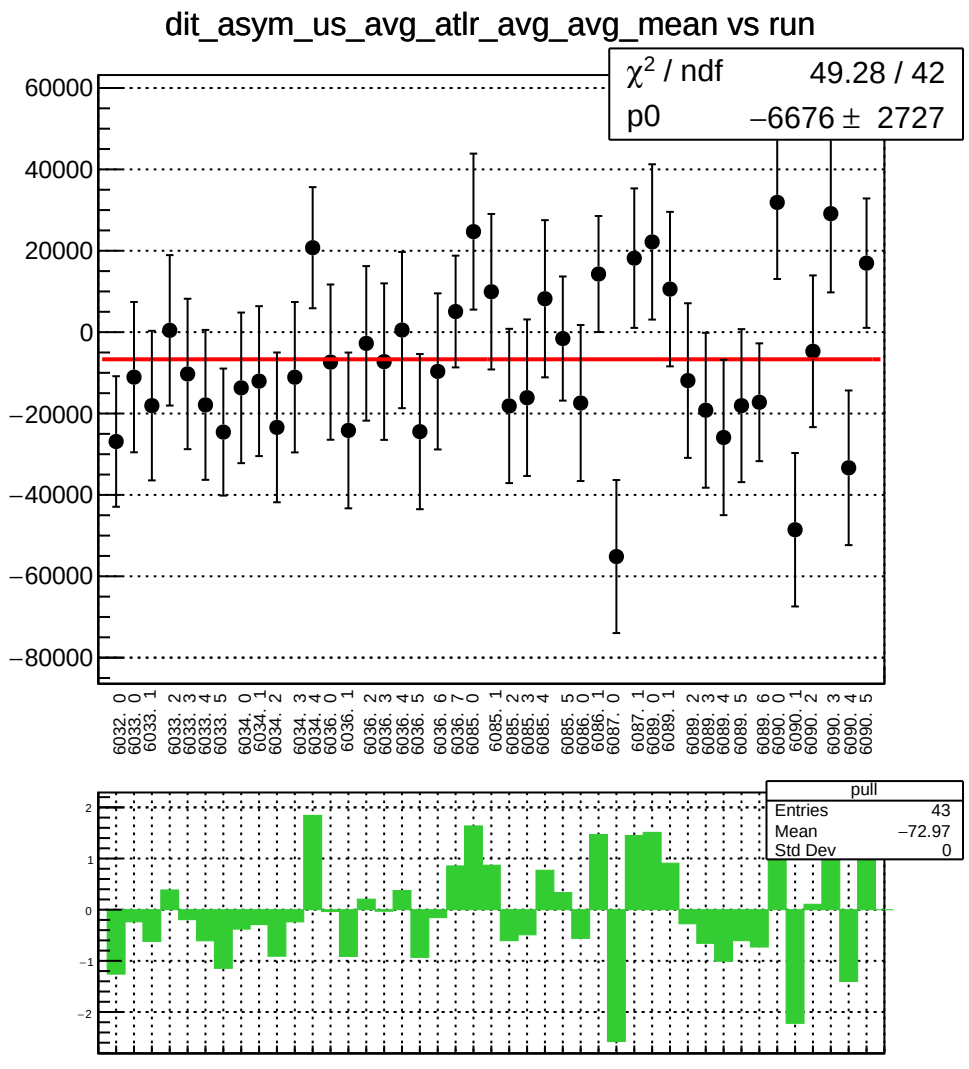

pull1D
Entries 43
Mean −0.02469
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

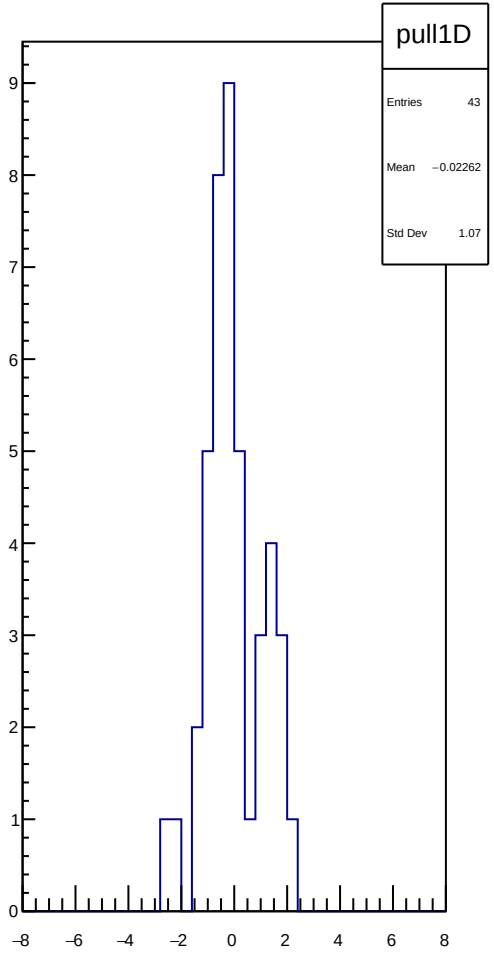

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 985.7 / 42
p0 1788 ± 1.914
2100
2050
2000
1950
1900
1850
1800
1750
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

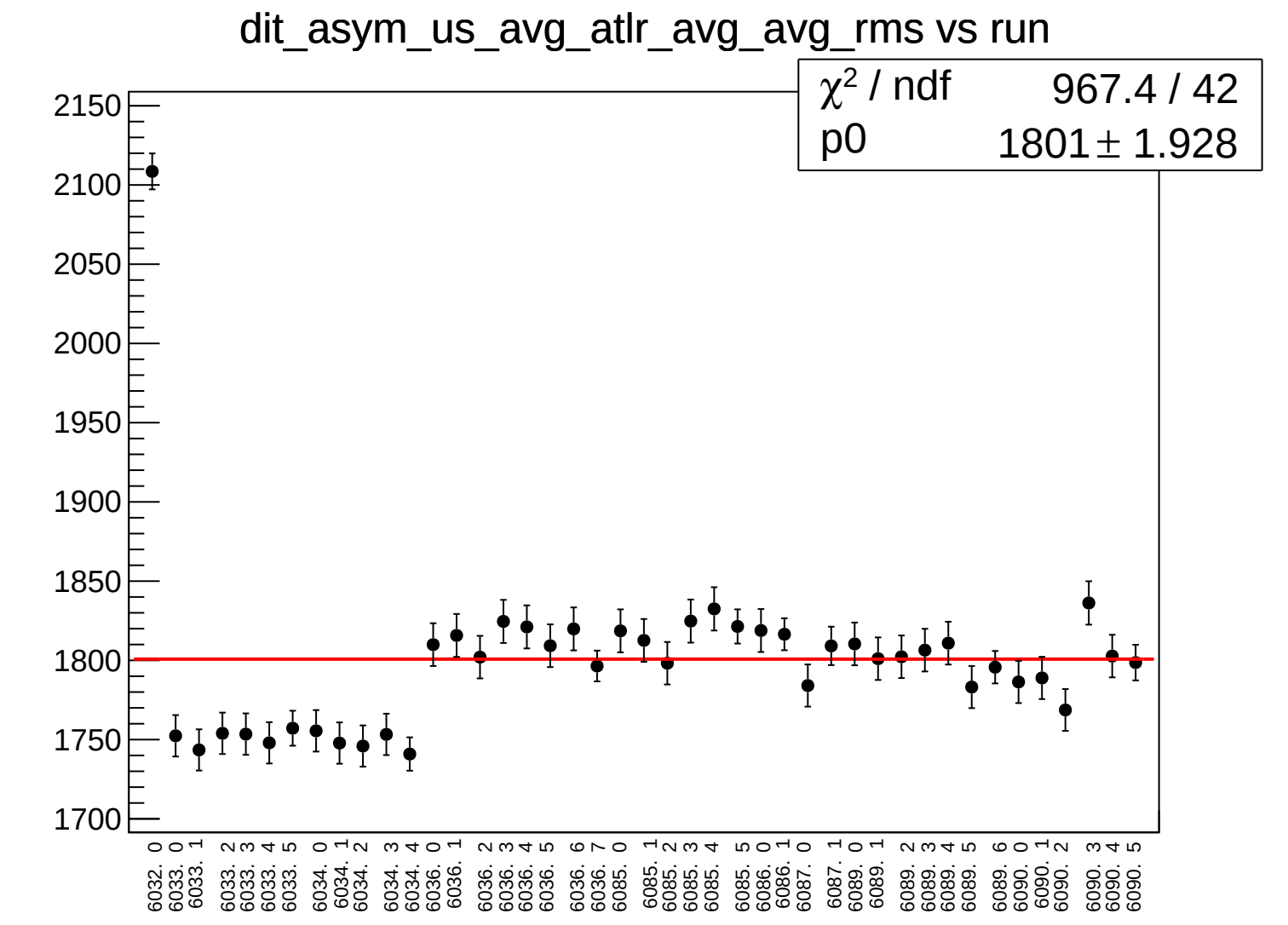

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 41.5 / 42
p0 282.1 ± 6474
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −43.33
Std Dev 0
2
1
0
−1
−2

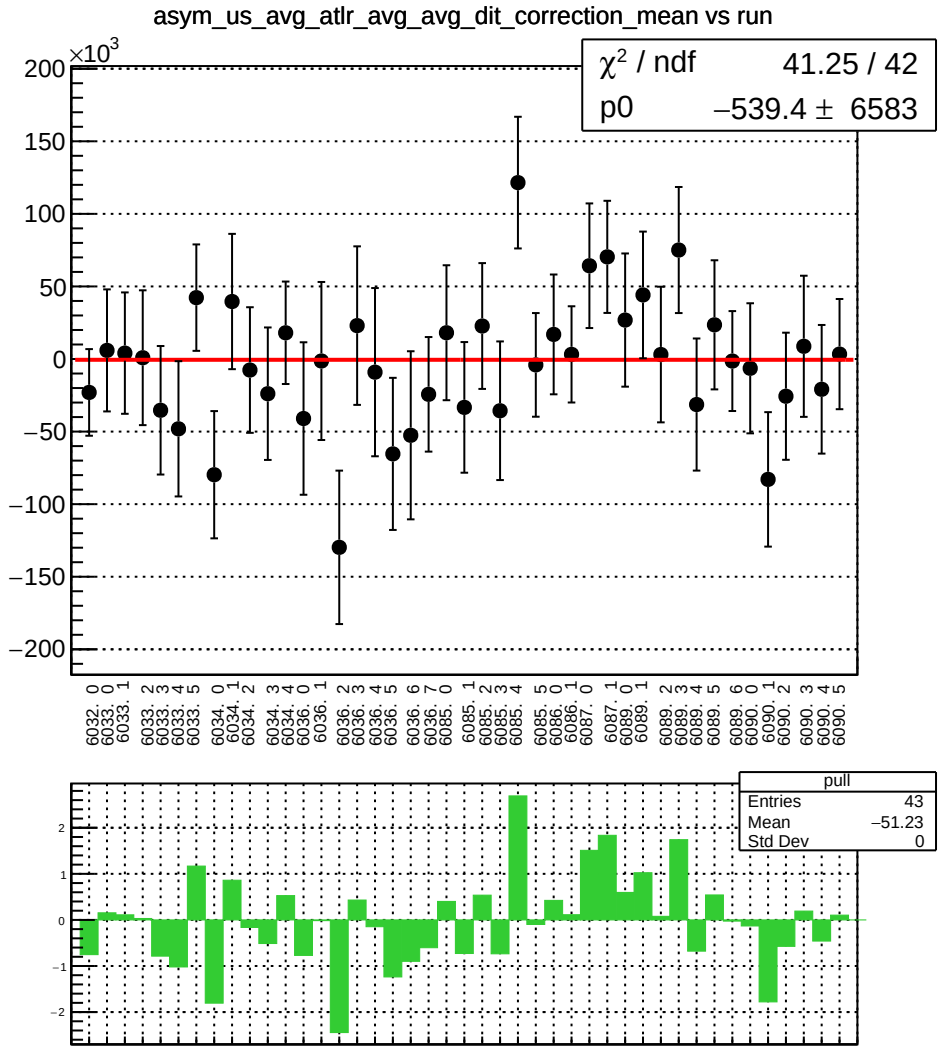

pull1D
Entries 43
Mean −0.03323
Std Dev 0.9818
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

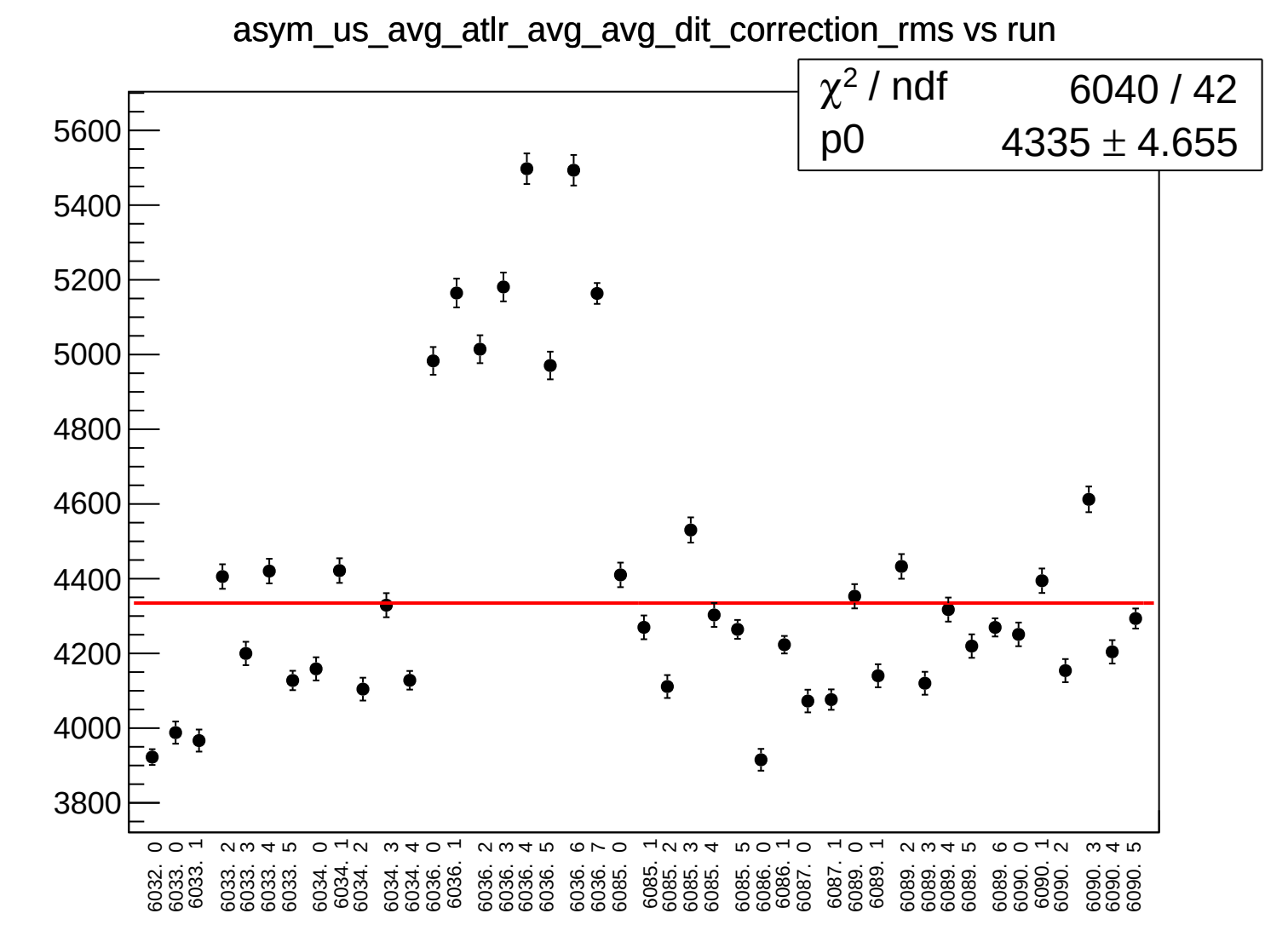

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6067 / 42
p0 4263 ± 4.578
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

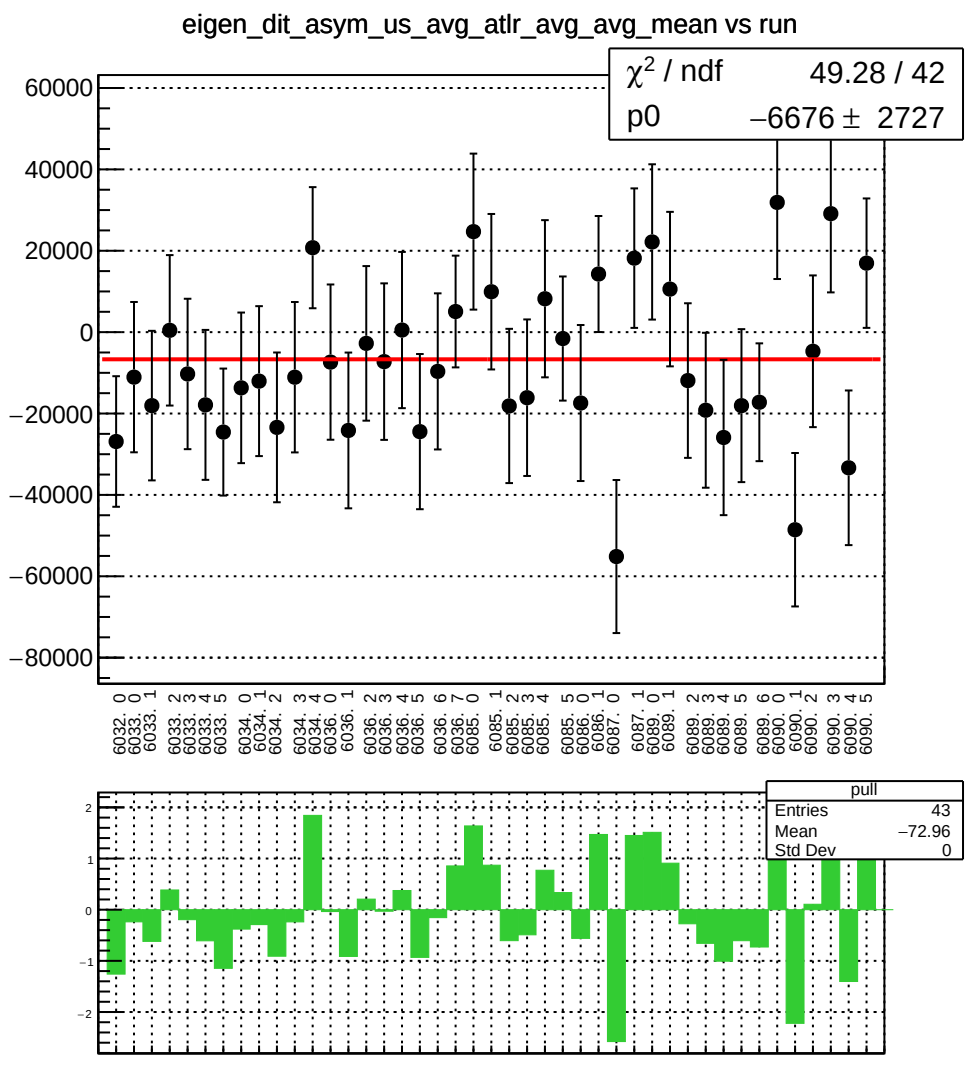

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 49.28 / 42
p0 −6676 ± 2727
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −72.97
Std Dev 0
2
1
0
−1
−2

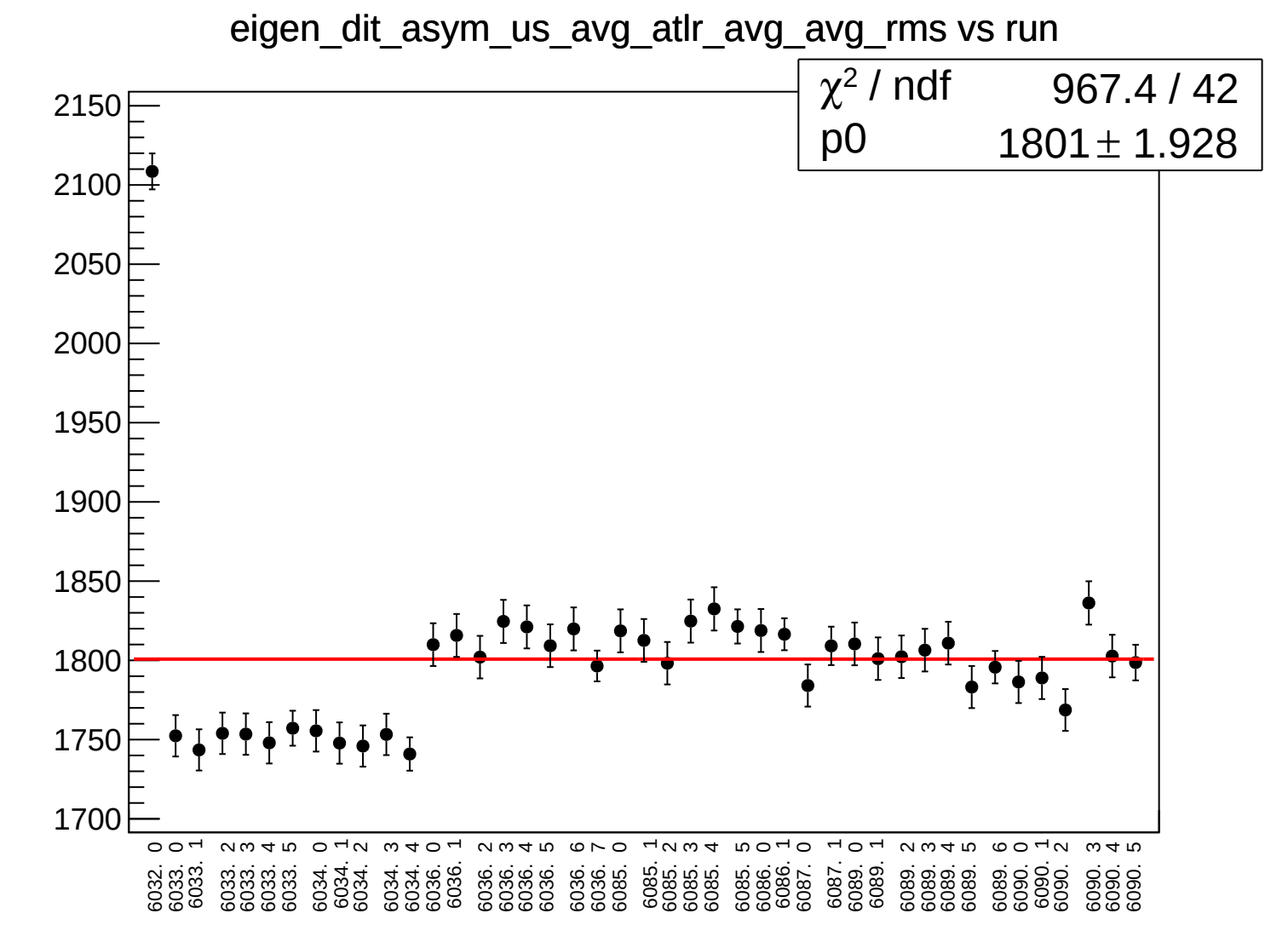

pull1D
Entries 43
Mean −0.02262
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

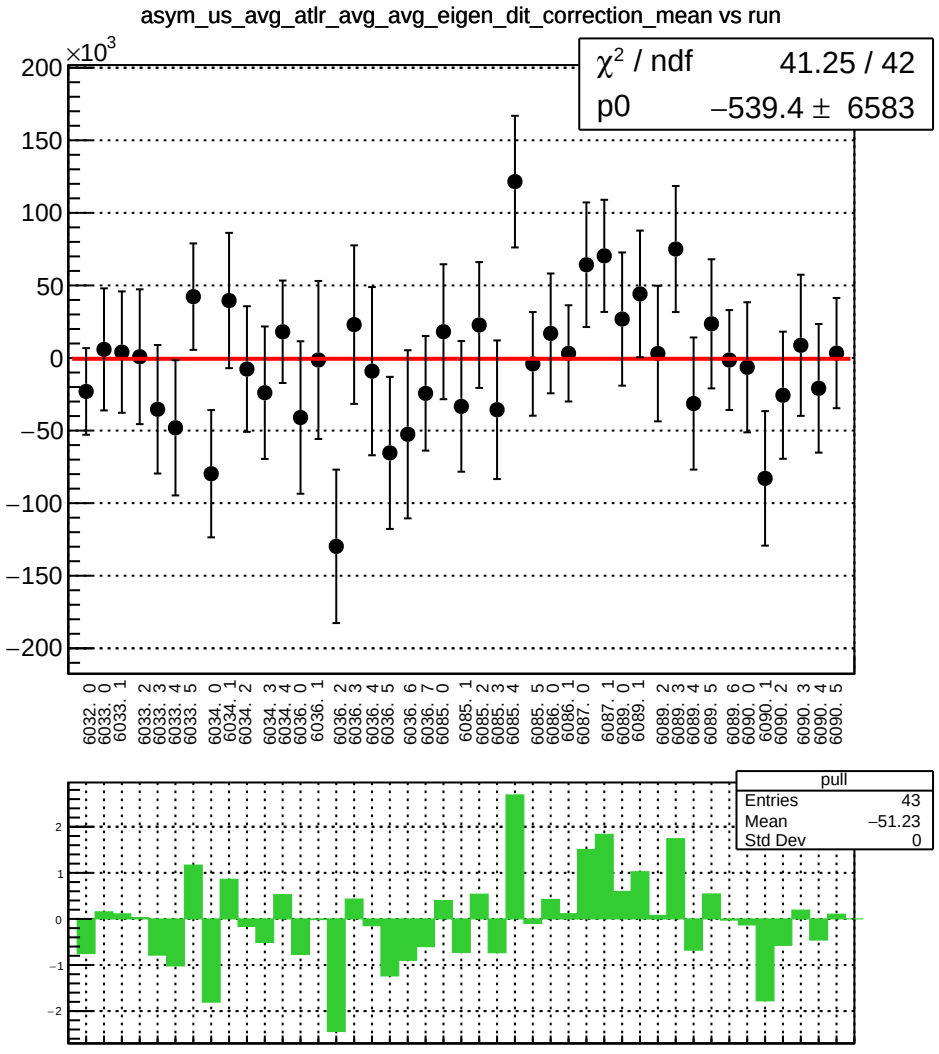

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 967.4 / 42
p0 1801 ± 1.928
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

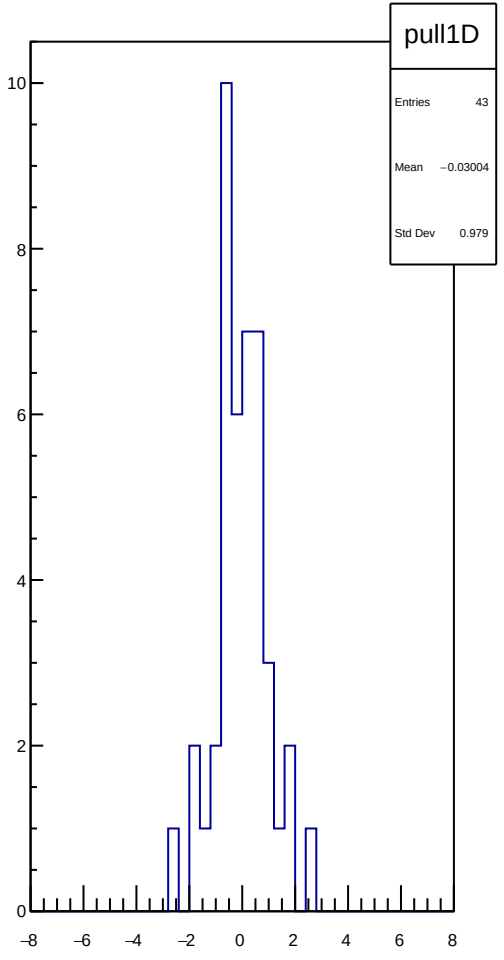

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41.25 / 42
p0 −539.4 ± 6583
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −51.23
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03004
Std Dev 0.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

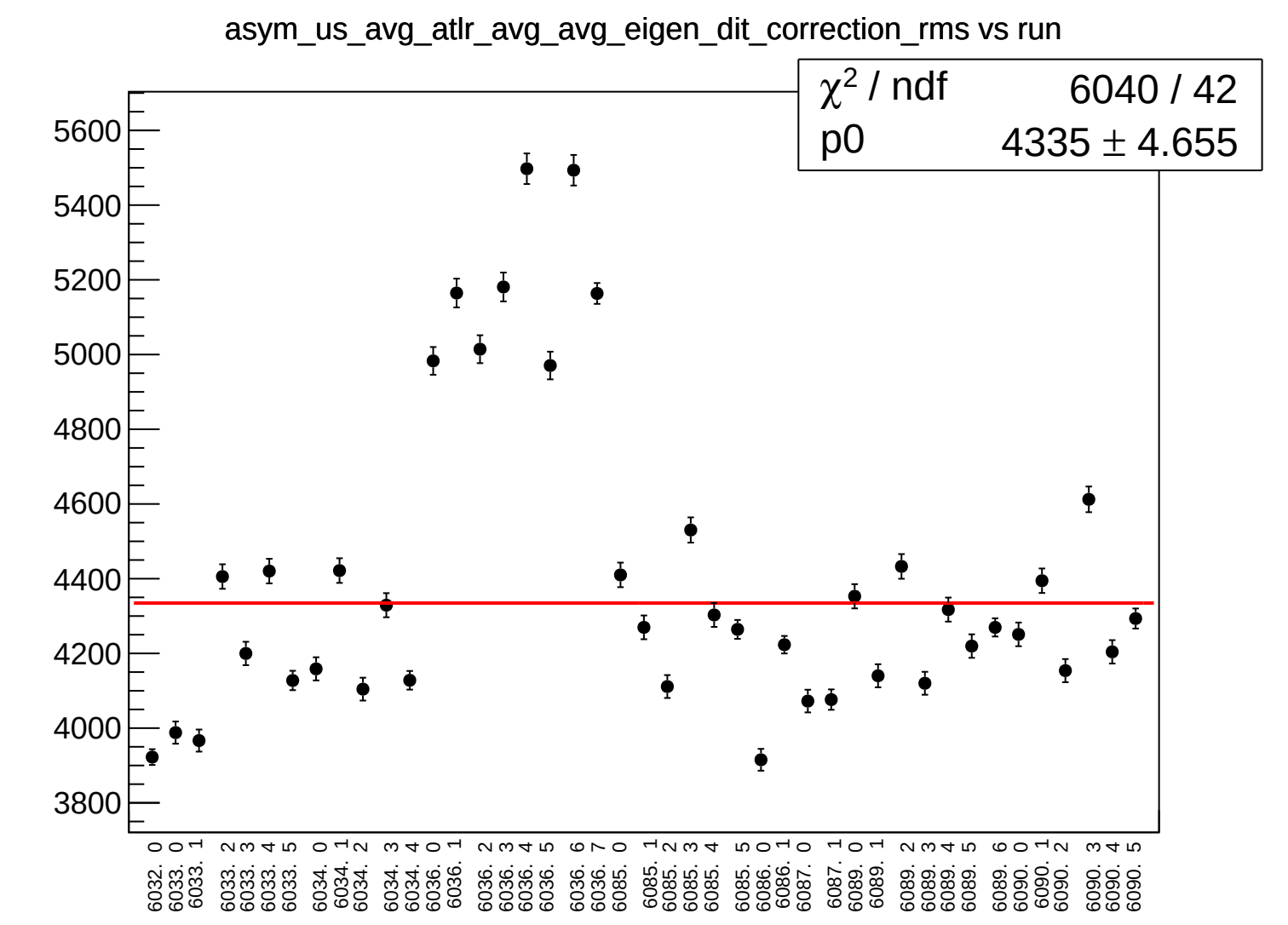

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 6040 / 42
p0 4335 ± 4.655
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

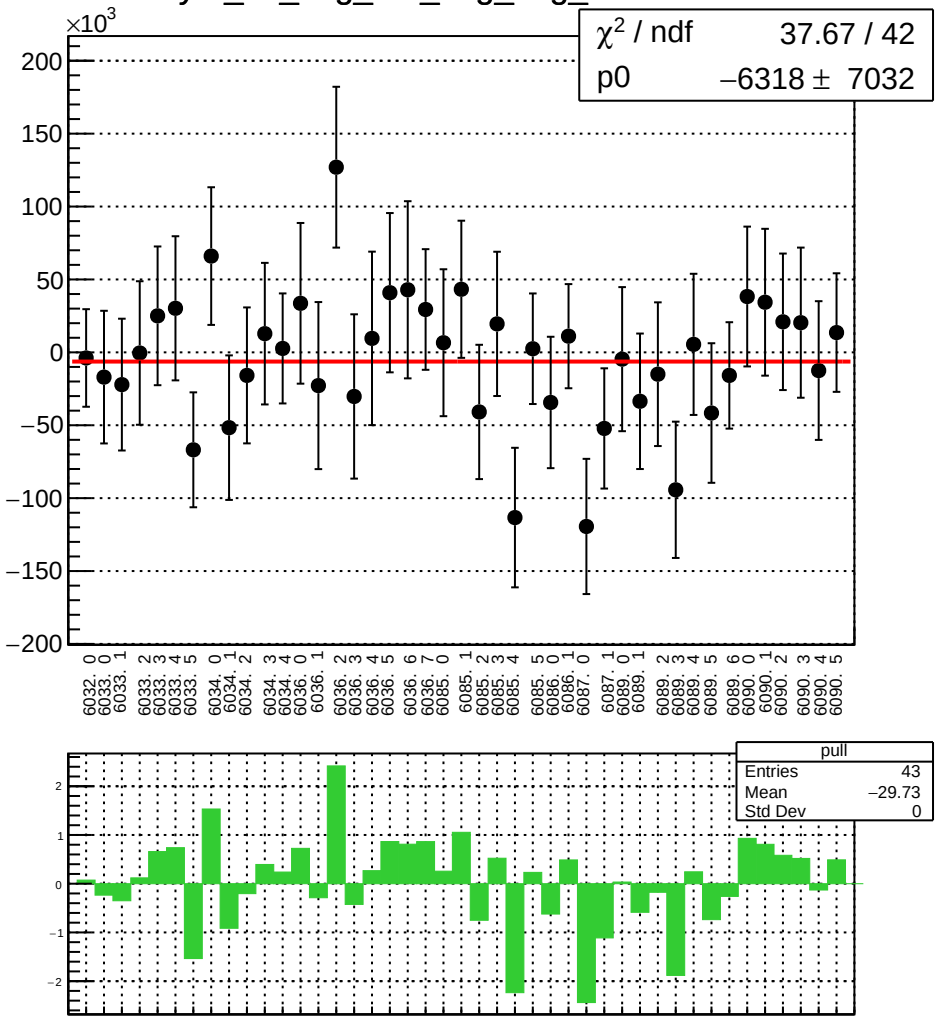

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 49.28 / 42
p0 −6676 ± 2727
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −72.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02262
Std Dev 1.07
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

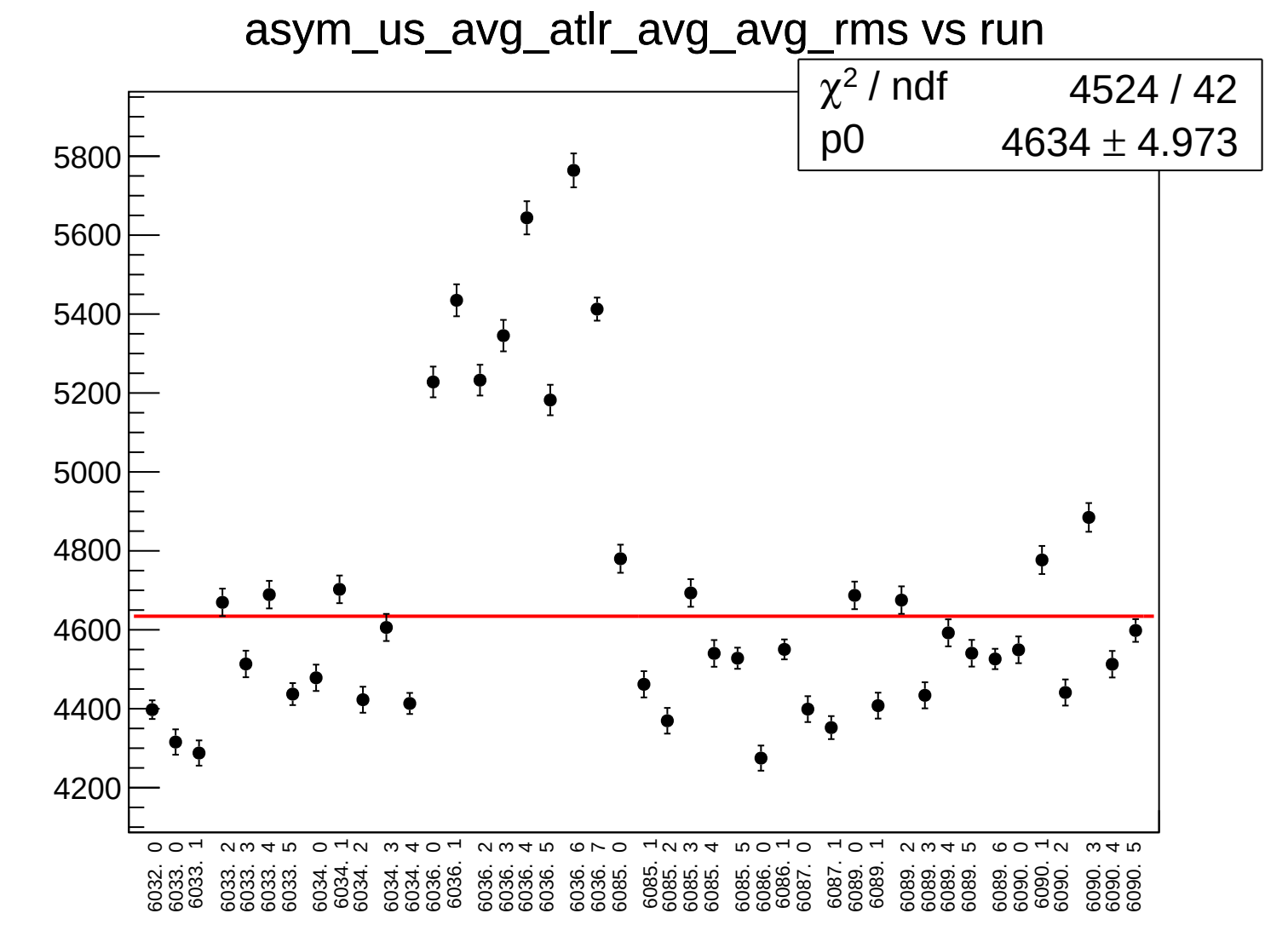

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 967.4 / 42
p0 1801 ± 1.928
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

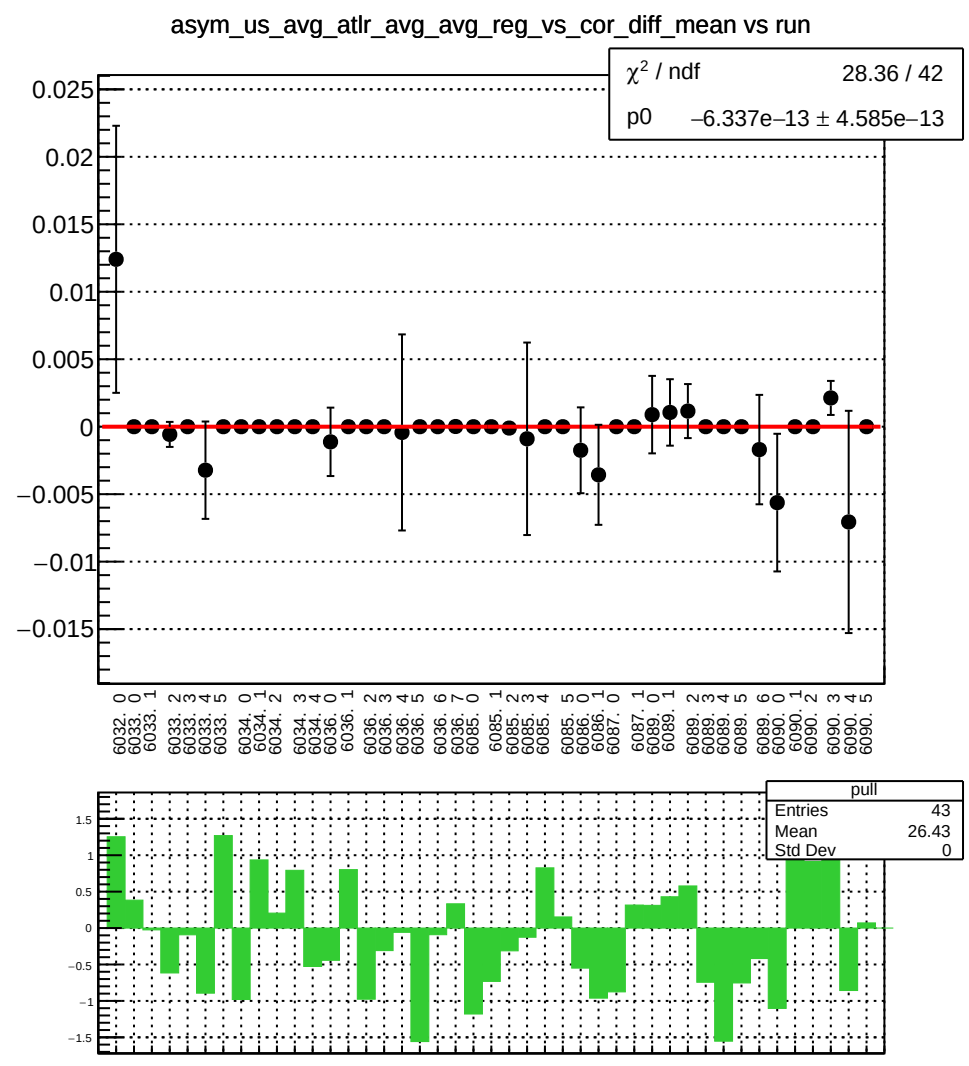

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.25 / 42
p0 −539.4 ± 6583
pull
Entries 43
Mean −51.23
Std Dev 0

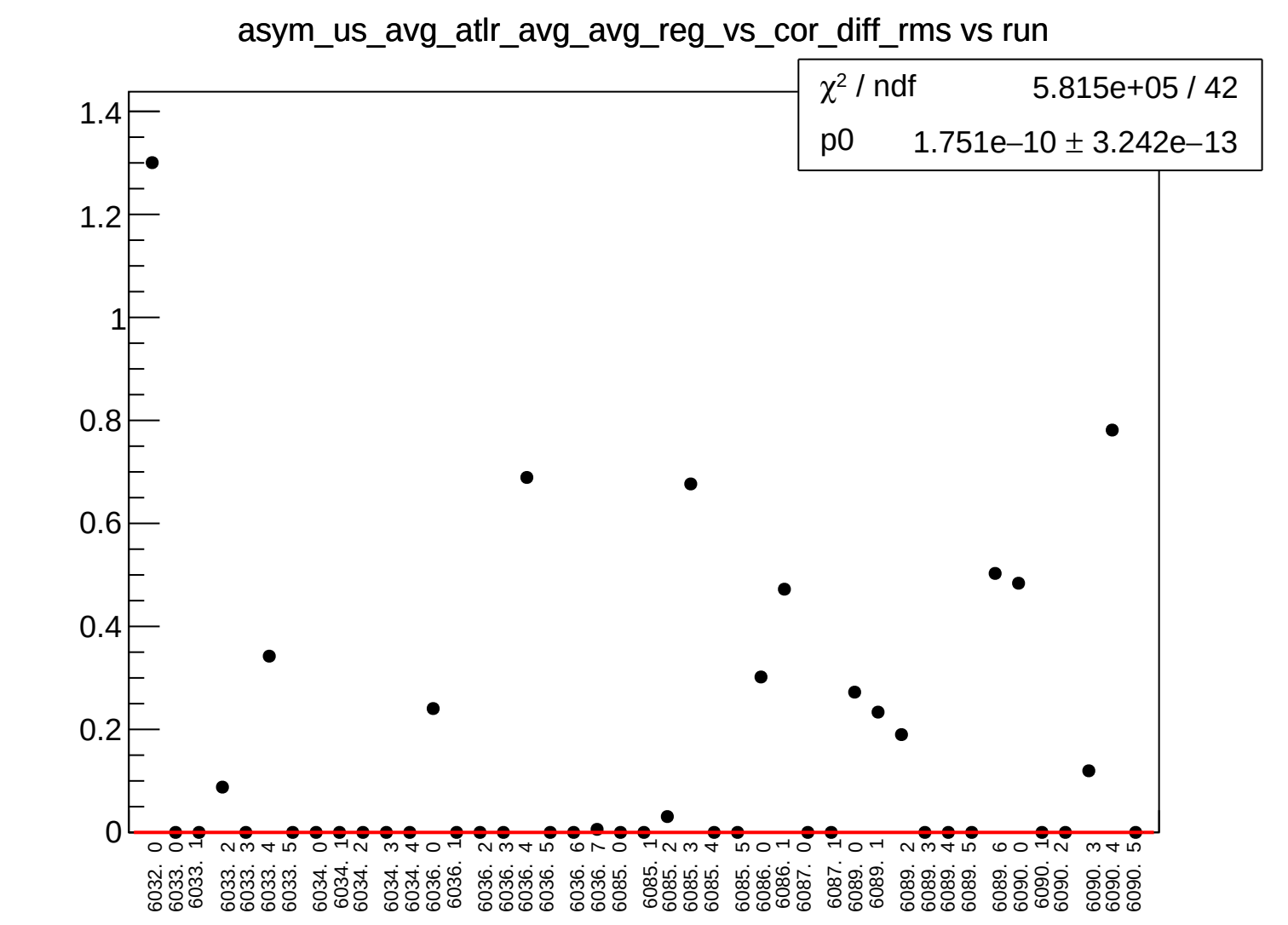

pull1D
Entries 43
Mean −0.03004
Std Dev 0.979

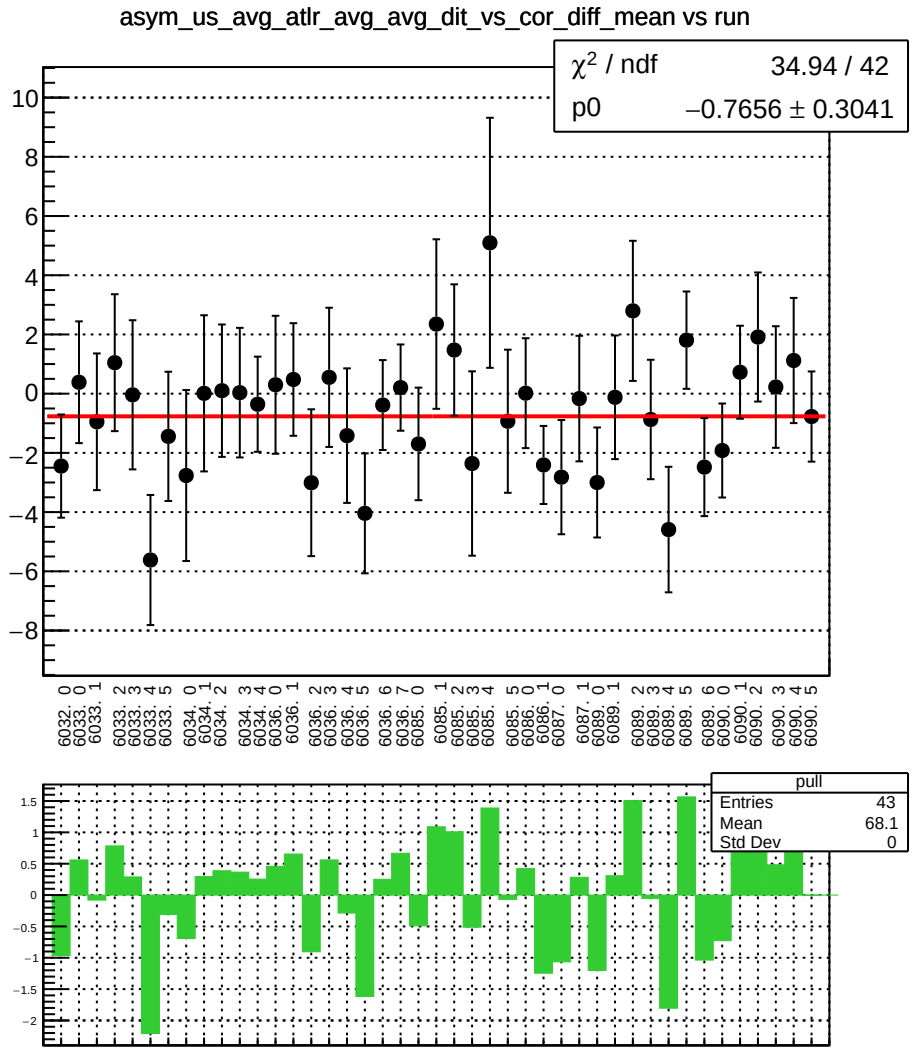

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 6040 / 42
p0 4335 ± 4.655
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

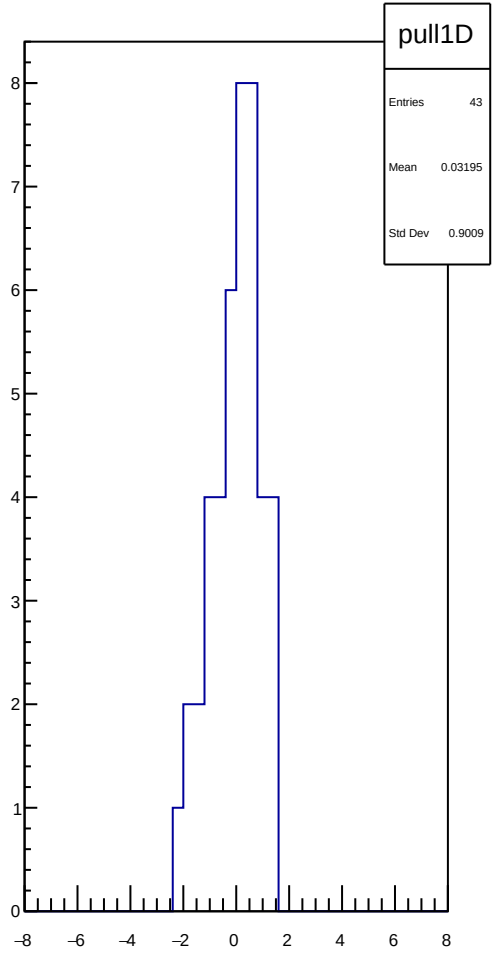

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 37.67 / 42
p0 −6318 ± 7032
pull
Entries 43
Mean −29.73
Std Dev 0
pull1D
Entries 43
Mean 0.02277
Std Dev 0.9358

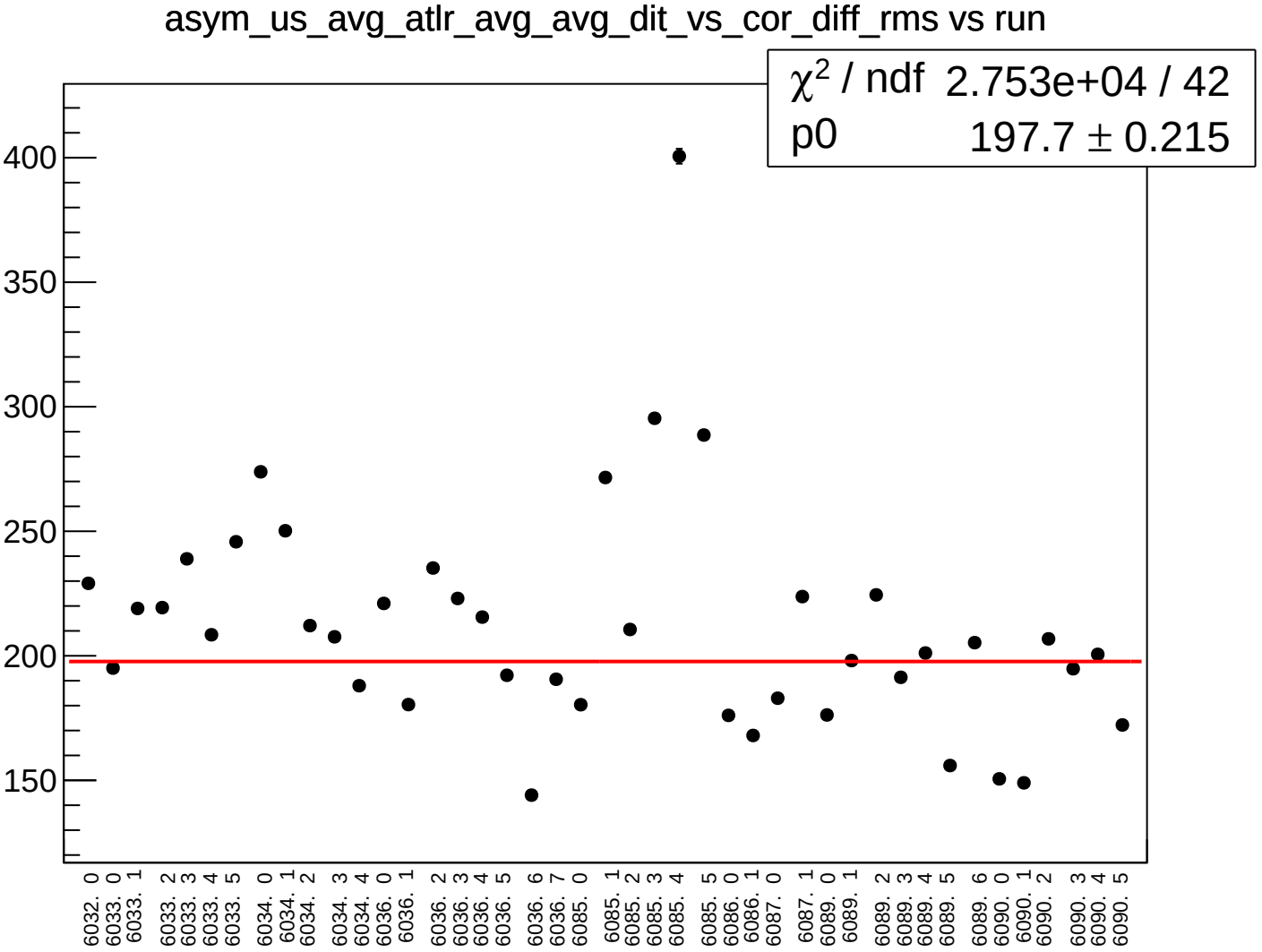

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4524 / 42
p0 4634 ± 4.973
5800
5600
5400
5200
5000
4800
4600
4400
4200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

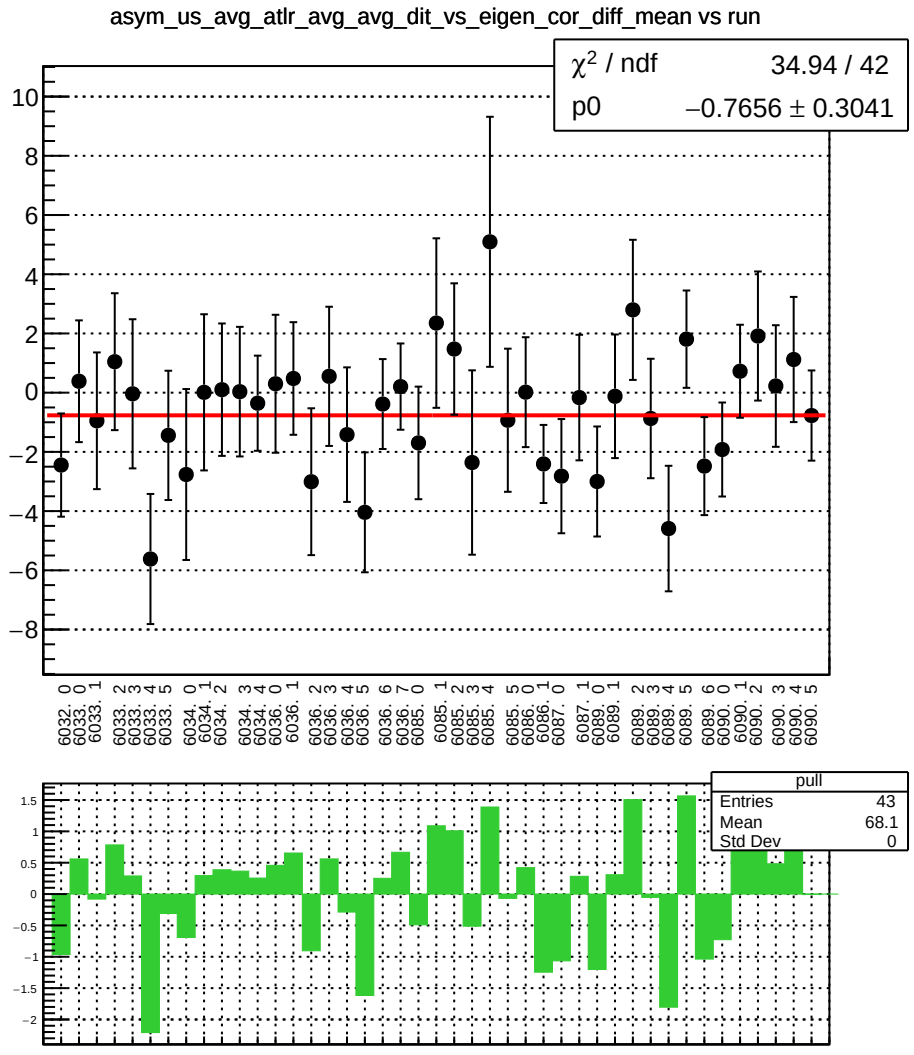

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.36 / 42
p0 −6.337e−13 ± 4.585e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.096
Std Dev 0.8064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

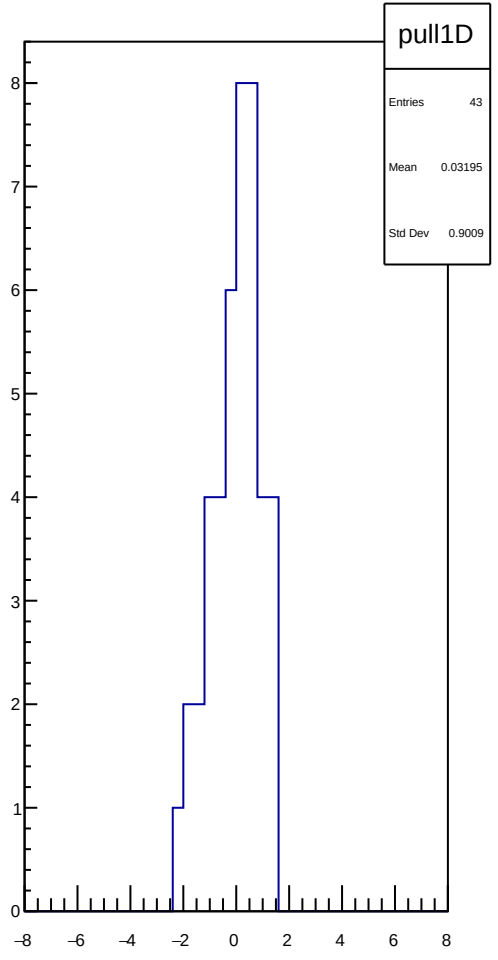

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.815e+05 / 42
p0 1.751e−10 ± 3.242e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

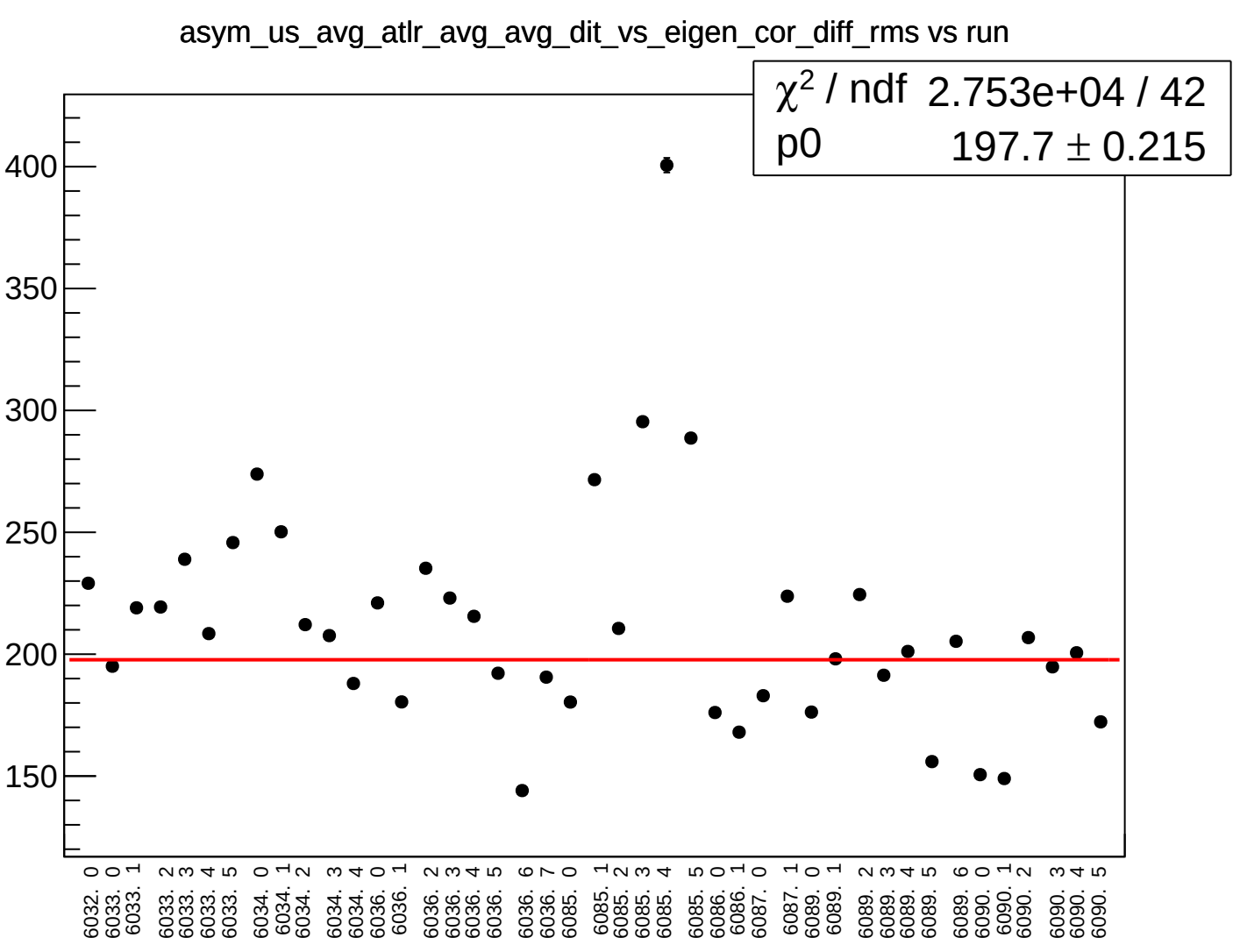

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.94 / 42
p0 −0.7656 ± 0.3041
pull
Entries 43
Mean 68.1
Std Dev 0

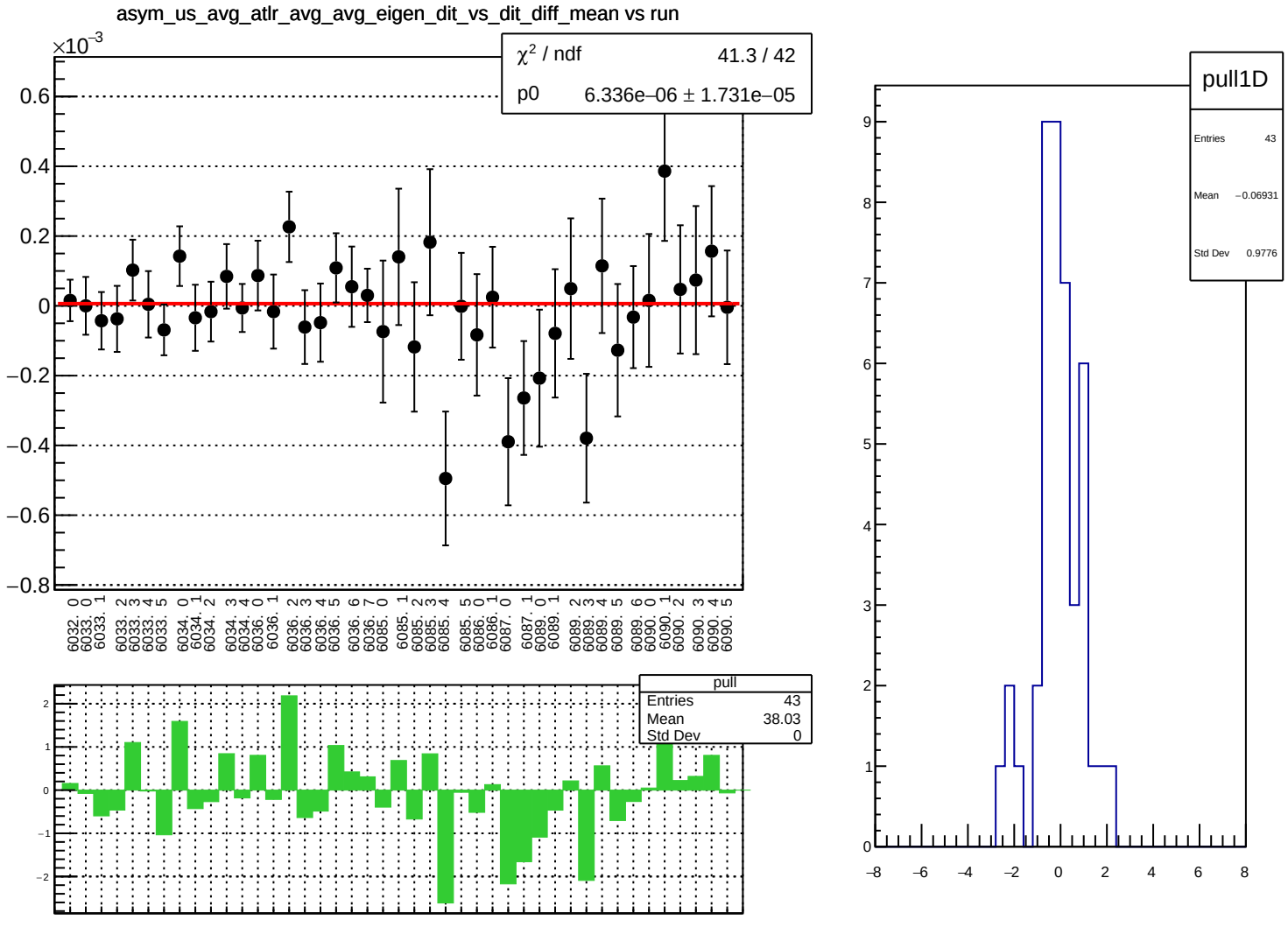

pull1D
Entries 43
Mean 0.03195
Std Dev 0.9009

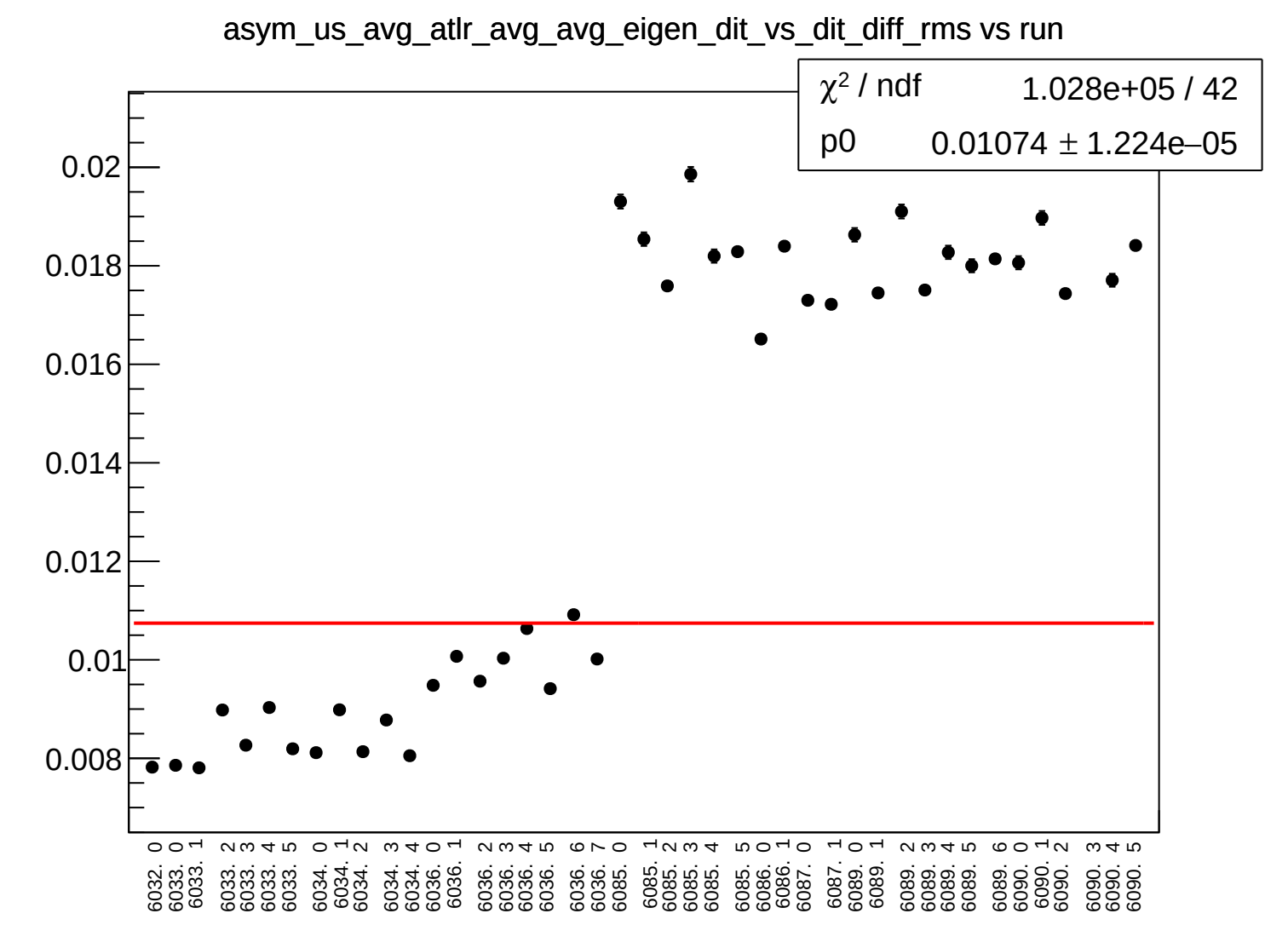

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.753e+04 / 42
p0 197.7 ± 0.215
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.94 / 42
p0 −0.7656 ± 0.3041
pull
Entries 43
Mean 68.1
Std Dev 0

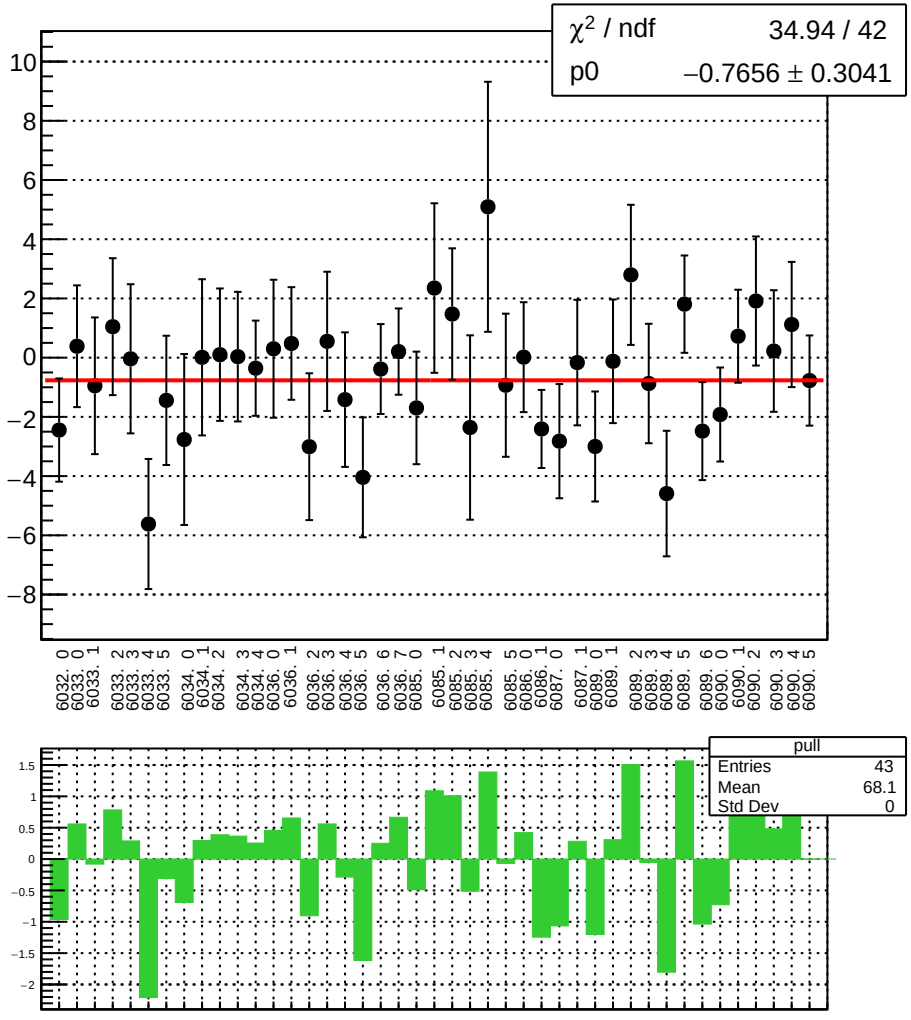

pull1D
Entries 43
Mean 0.03195
Std Dev 0.9009

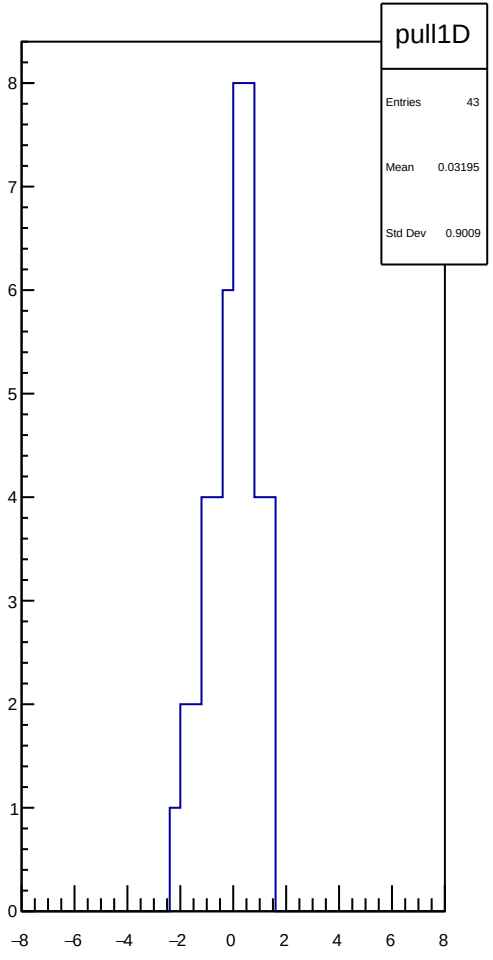

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.753e+04 / 42
p0 197.7 ± 0.215
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

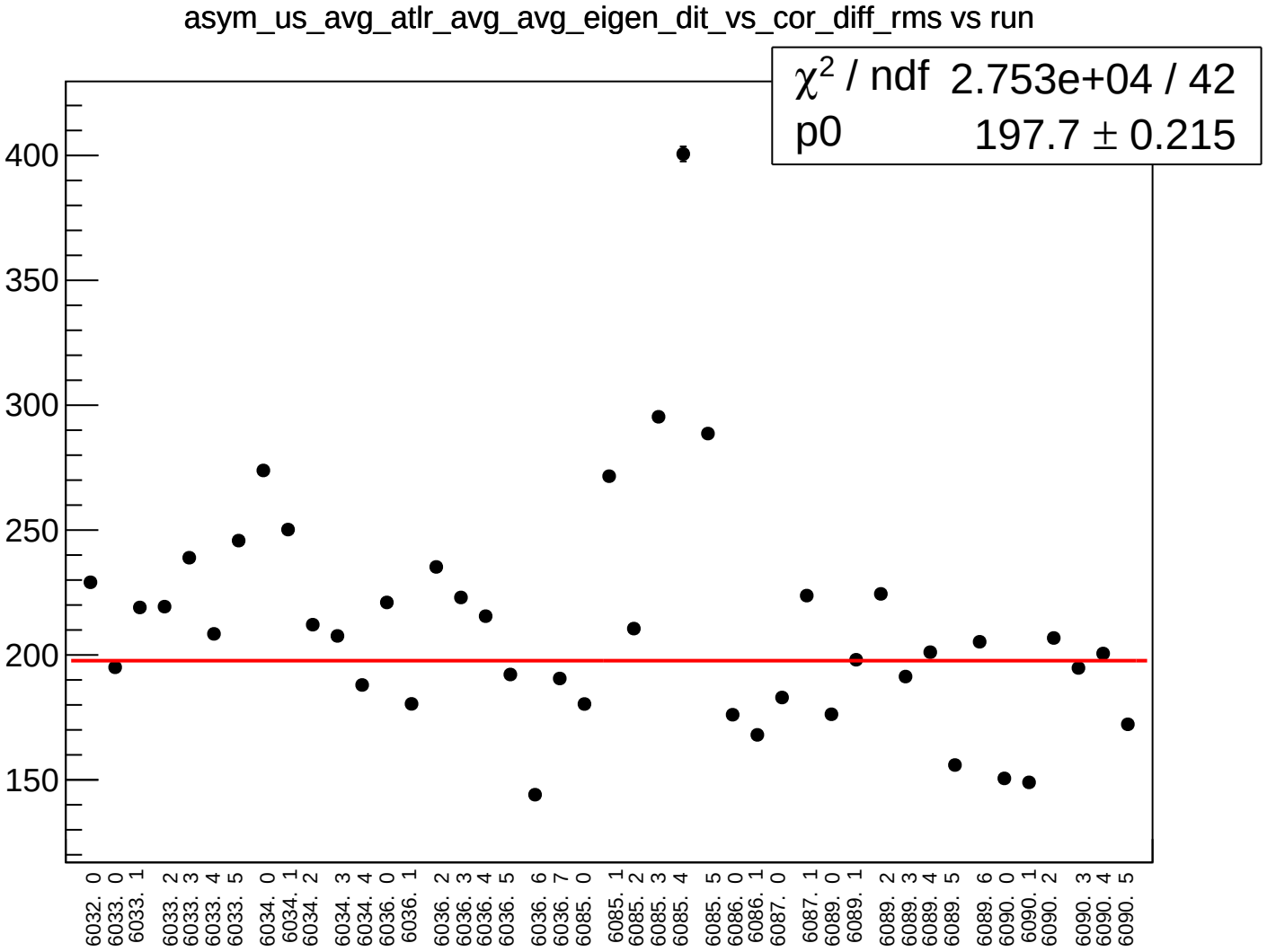

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 41.3 / 42
p0 6.336e−06 ± 1.731e−05
pull
Entries 43
Mean 38.03
Std Dev 0
pull1D
Entries 43
Mean −0.06931
Std Dev 0.9776


asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.028e+05 / 42
p0 0.01074 ± 1.224e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

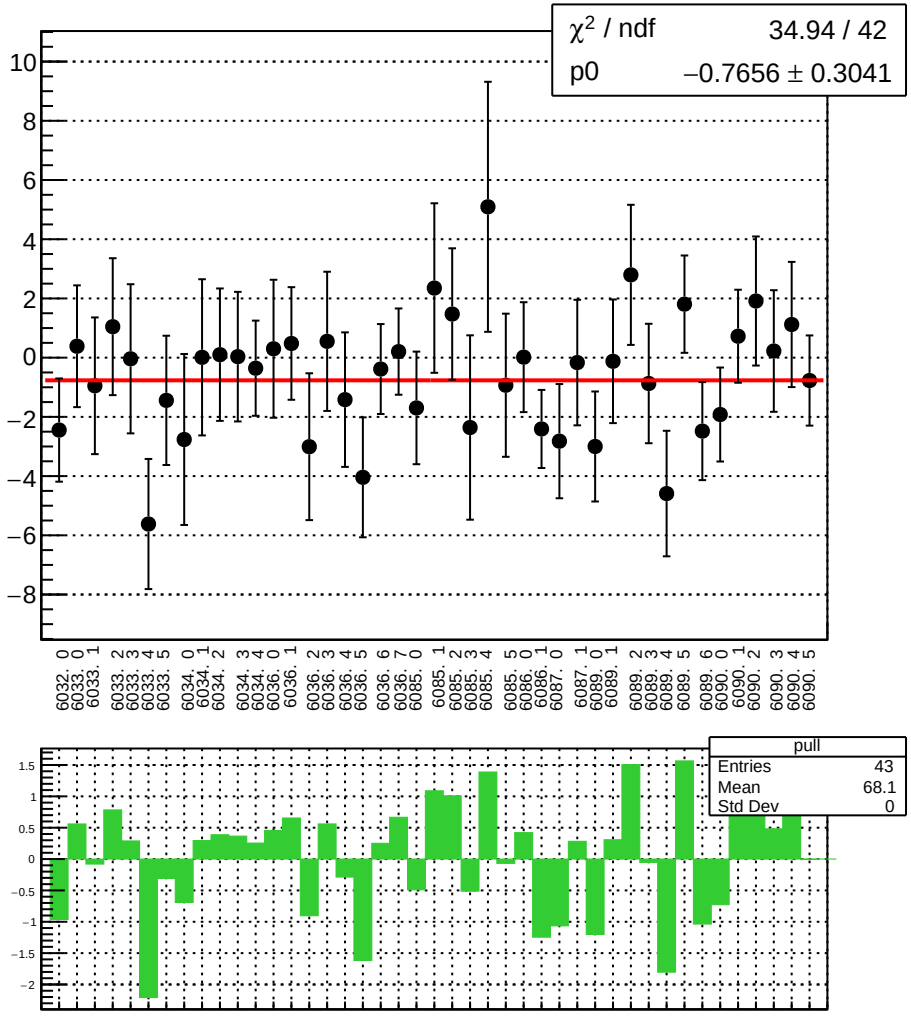
asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run

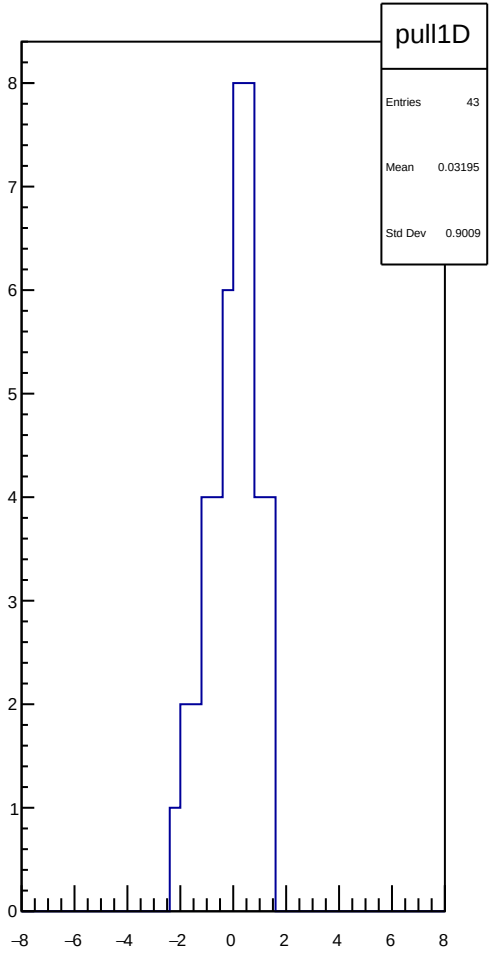


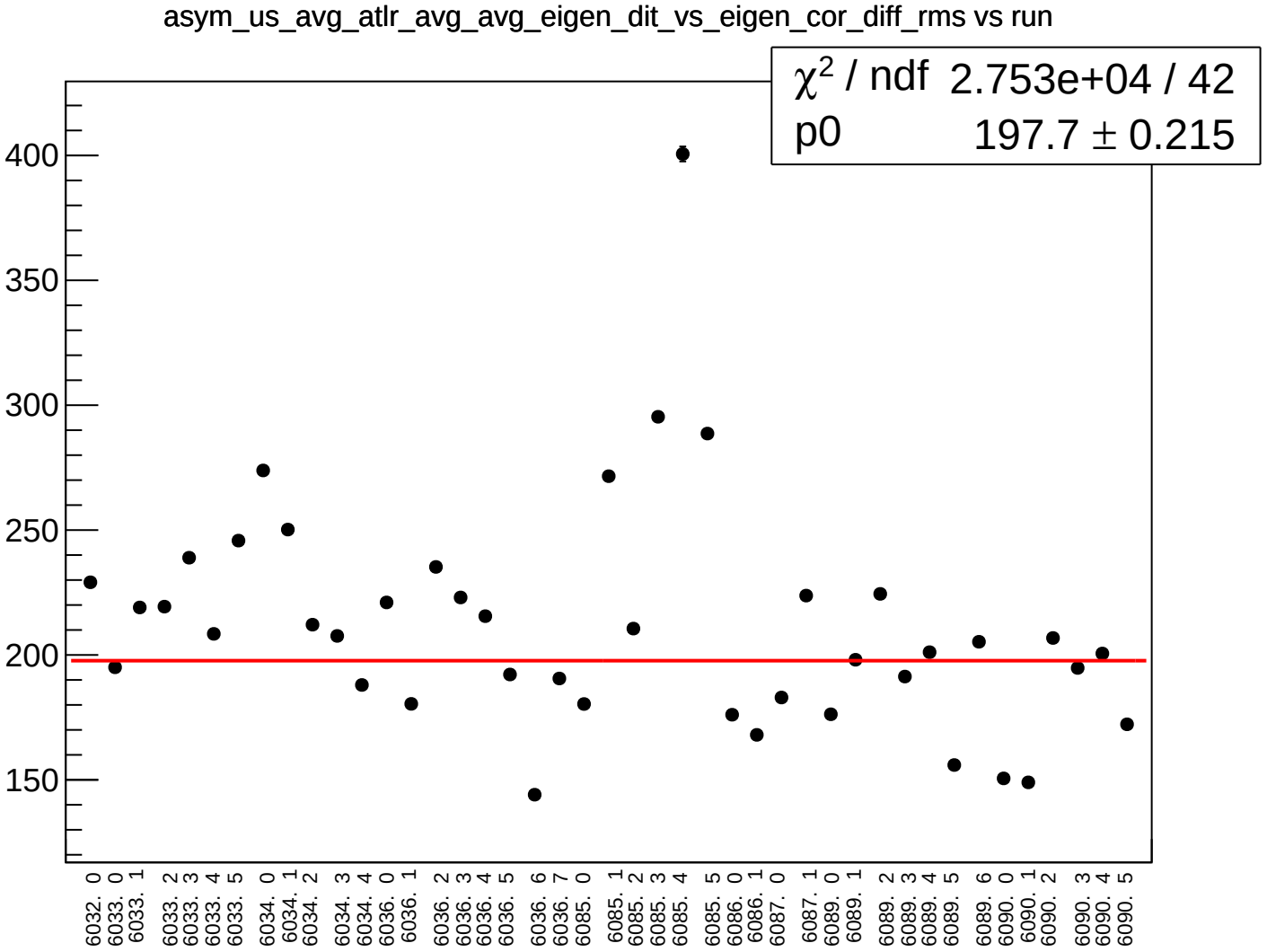


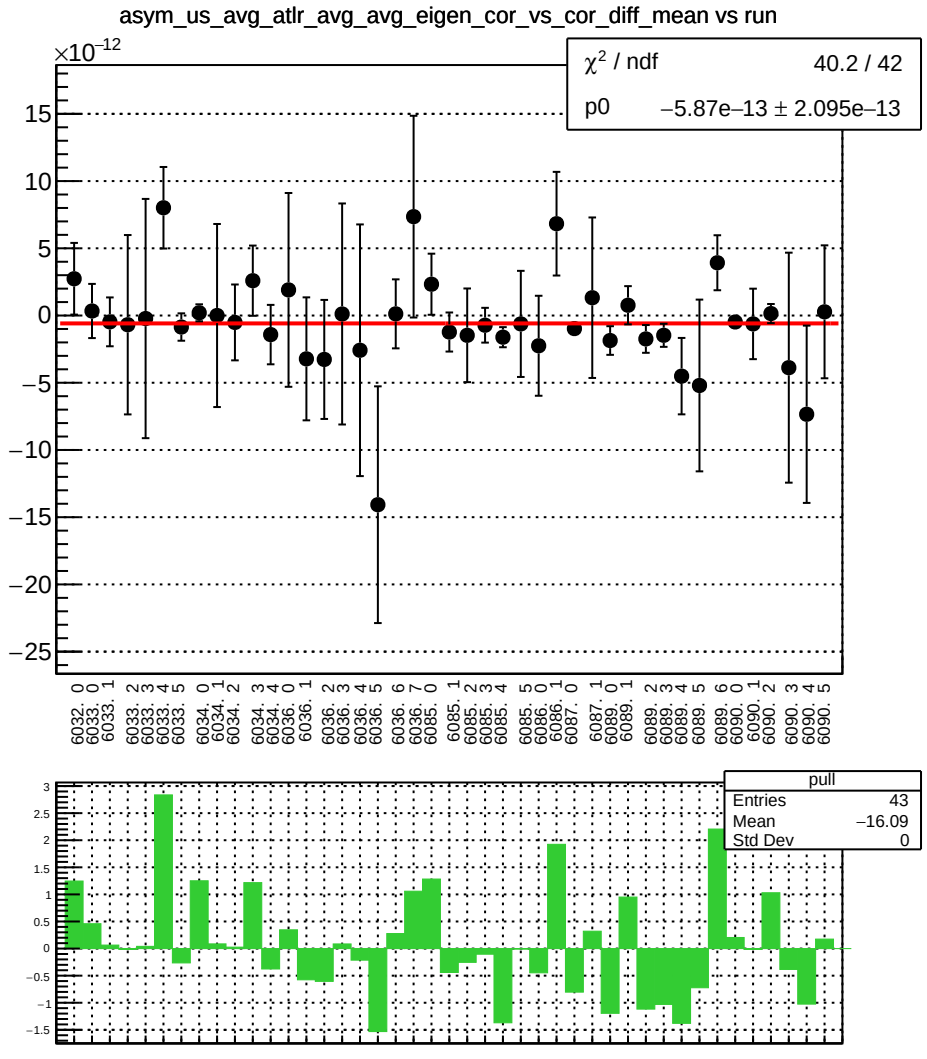

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.753e+04 / 42
p0 197.7 ± 0.215
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

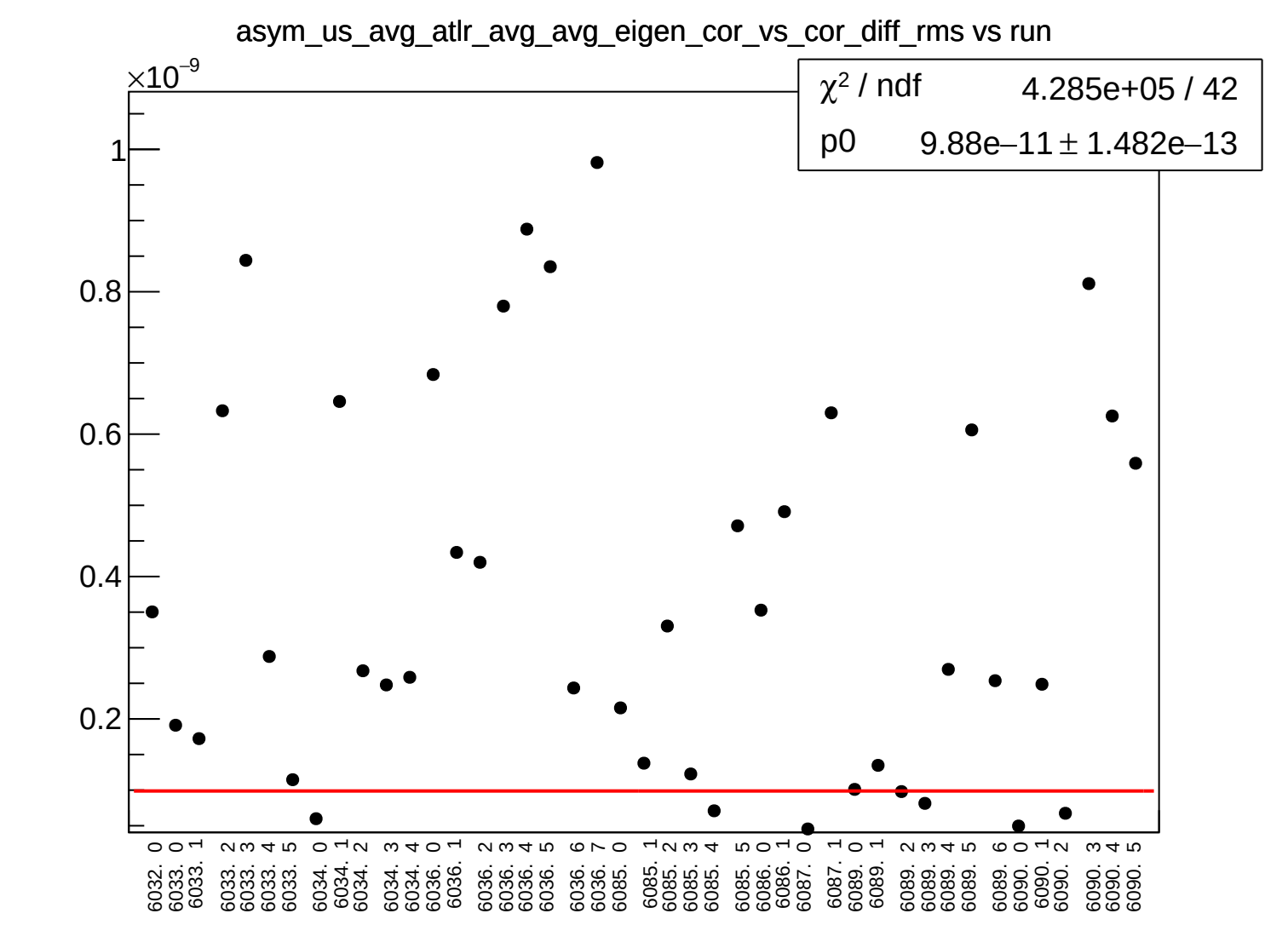
asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

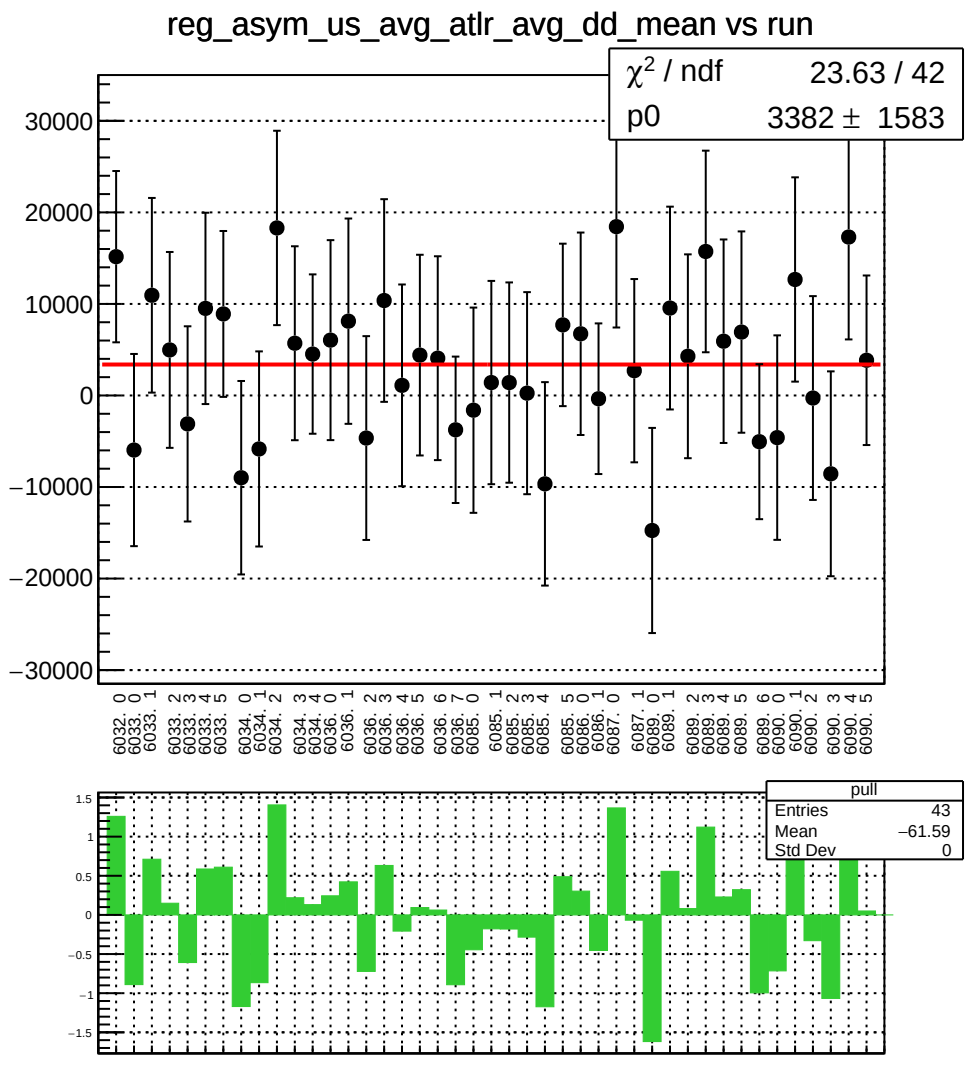


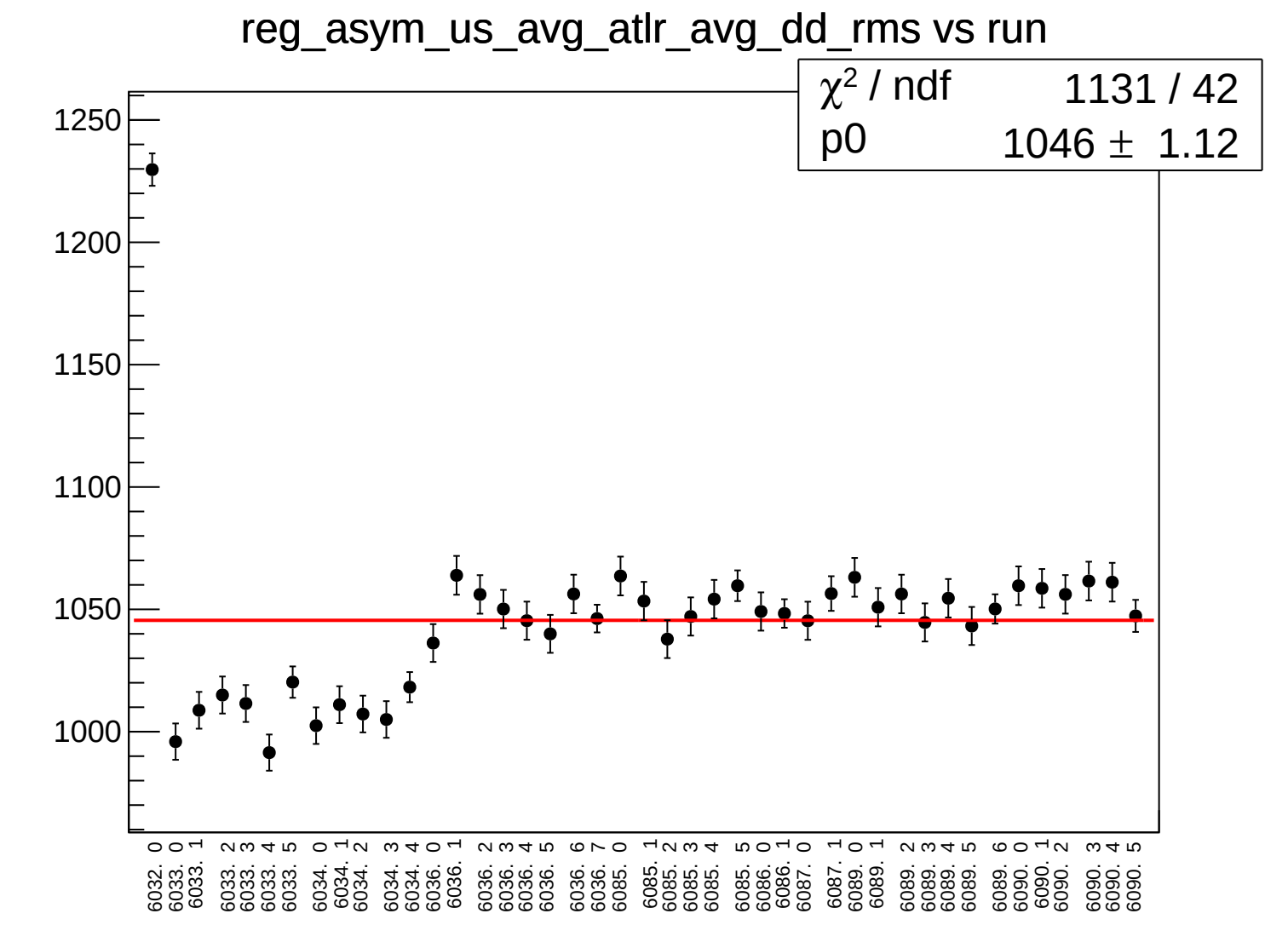


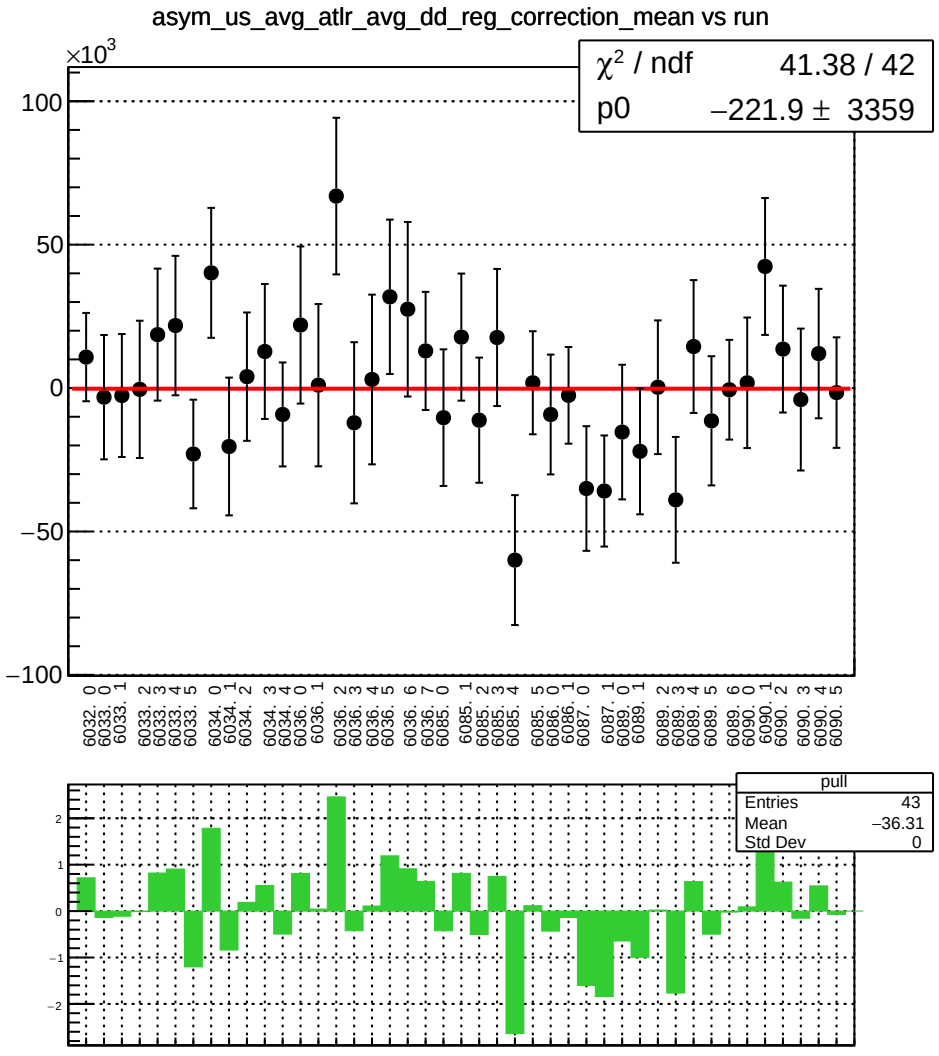

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.753e+04 / 42
p0 197.7 ± 0.215
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

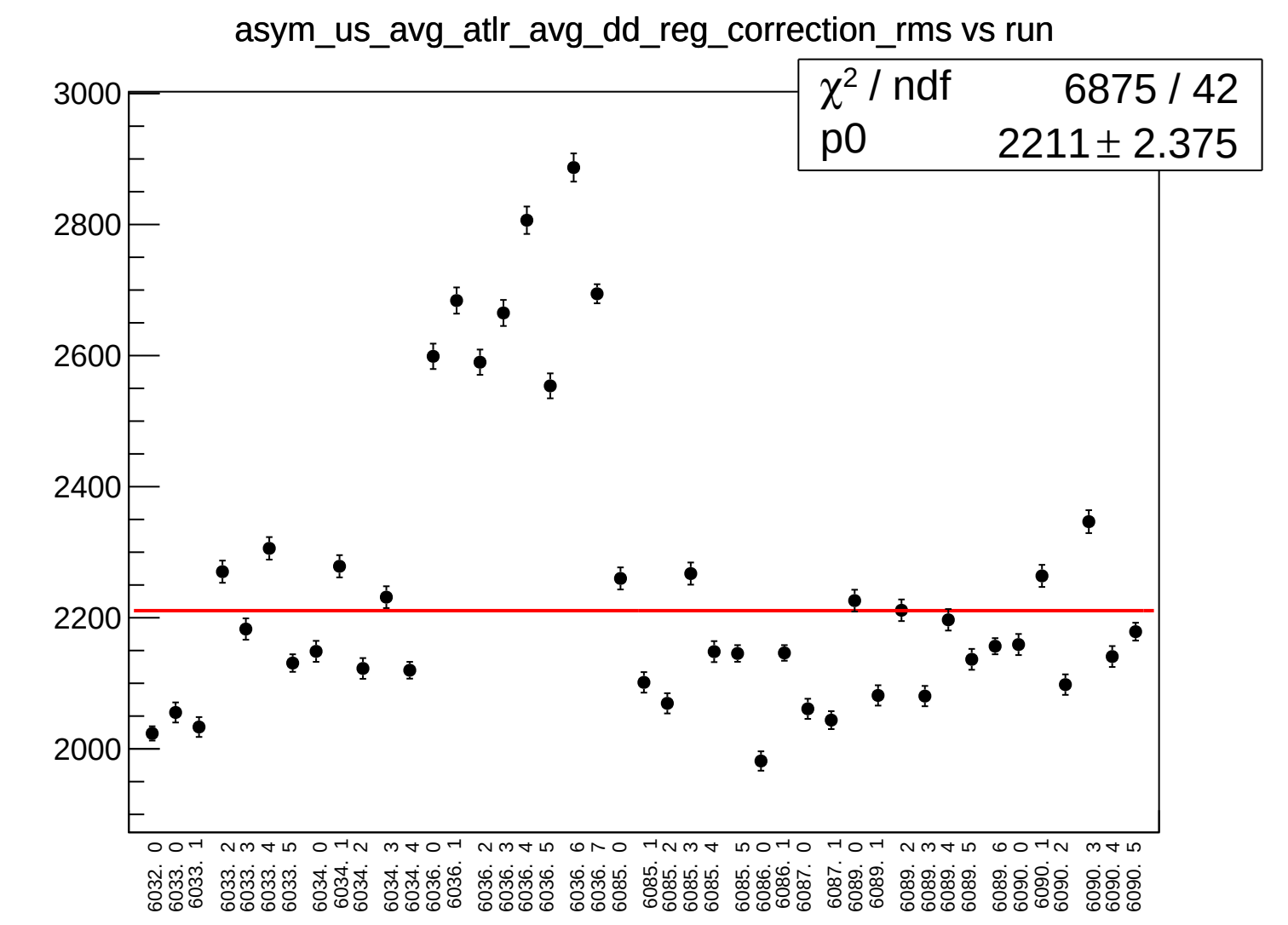

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.2 / 42
p0 −5.87e−13 ± 2.095e−13
15
10
5
0
−5
−10
−15
−20
−25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −16.09
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.07462
Std Dev 0.964
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

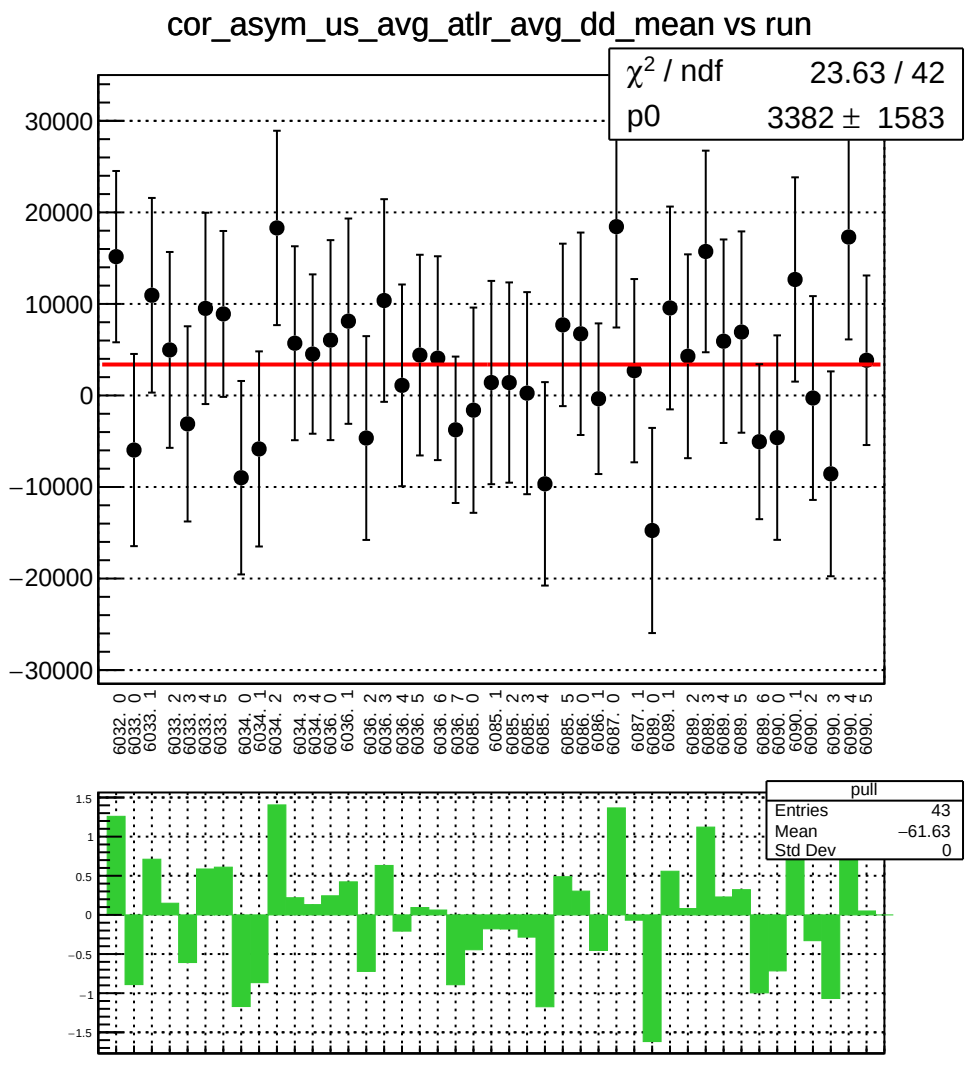

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.285e+05 / 42
p0 9.88e−11 ± 1.482e−13
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

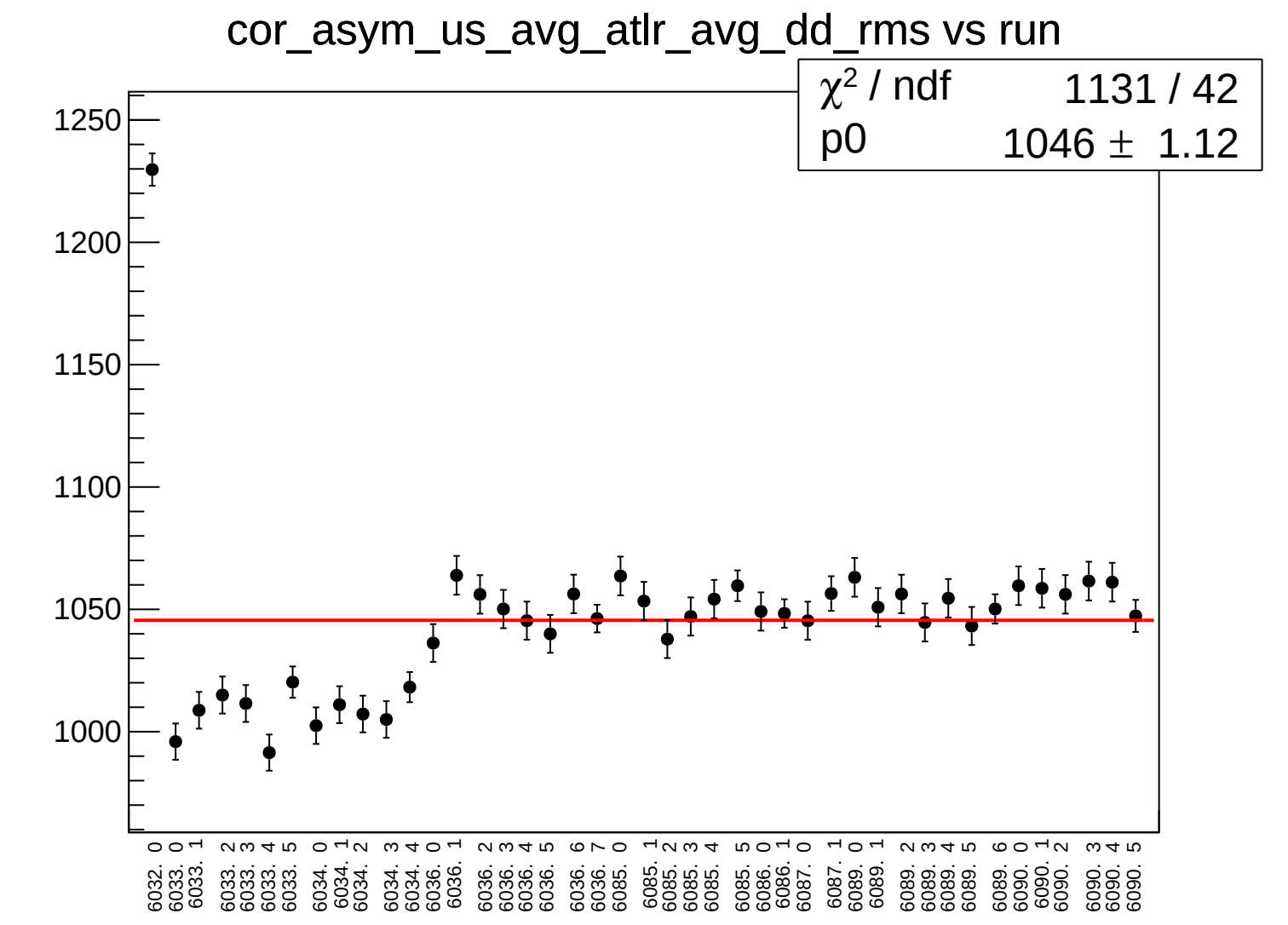

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 23.63 / 42
p0 3382 ± 1583
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −61.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006072
Std Dev 0.7413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

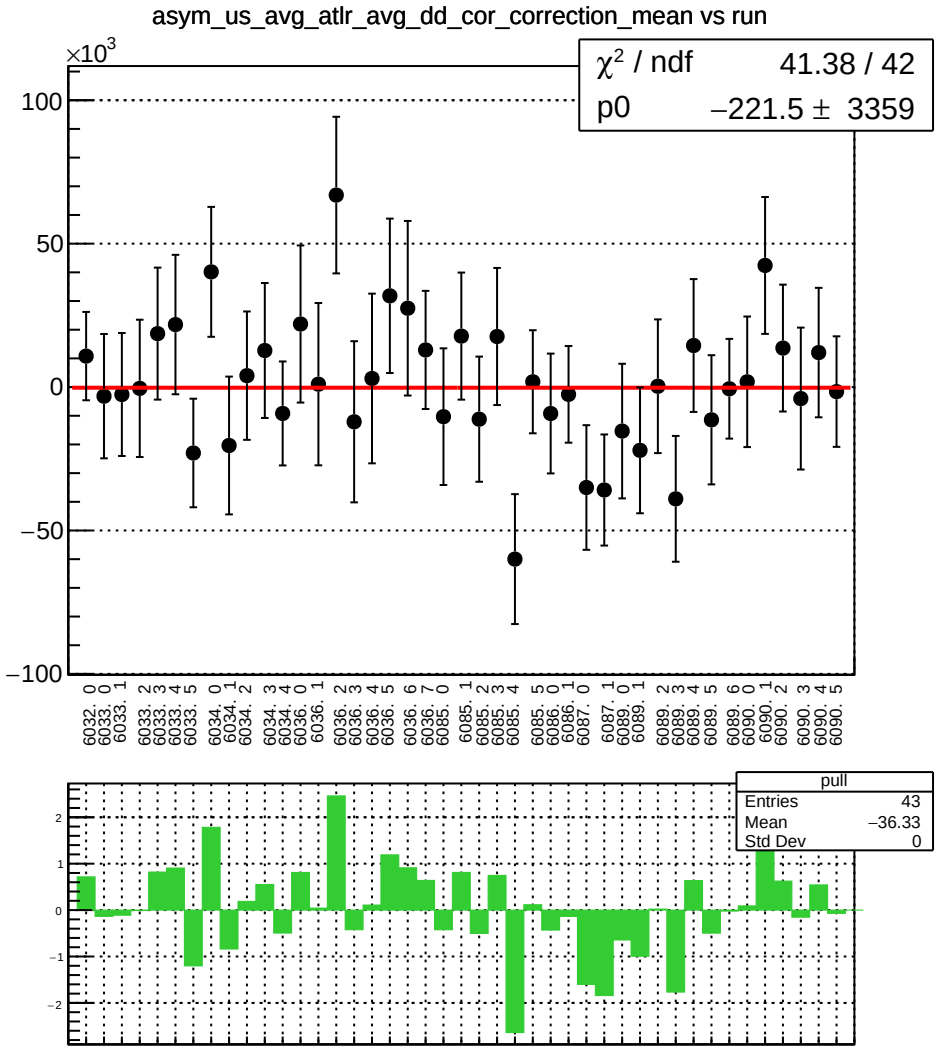

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1131 / 42
p0 1046 ± 1.12
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

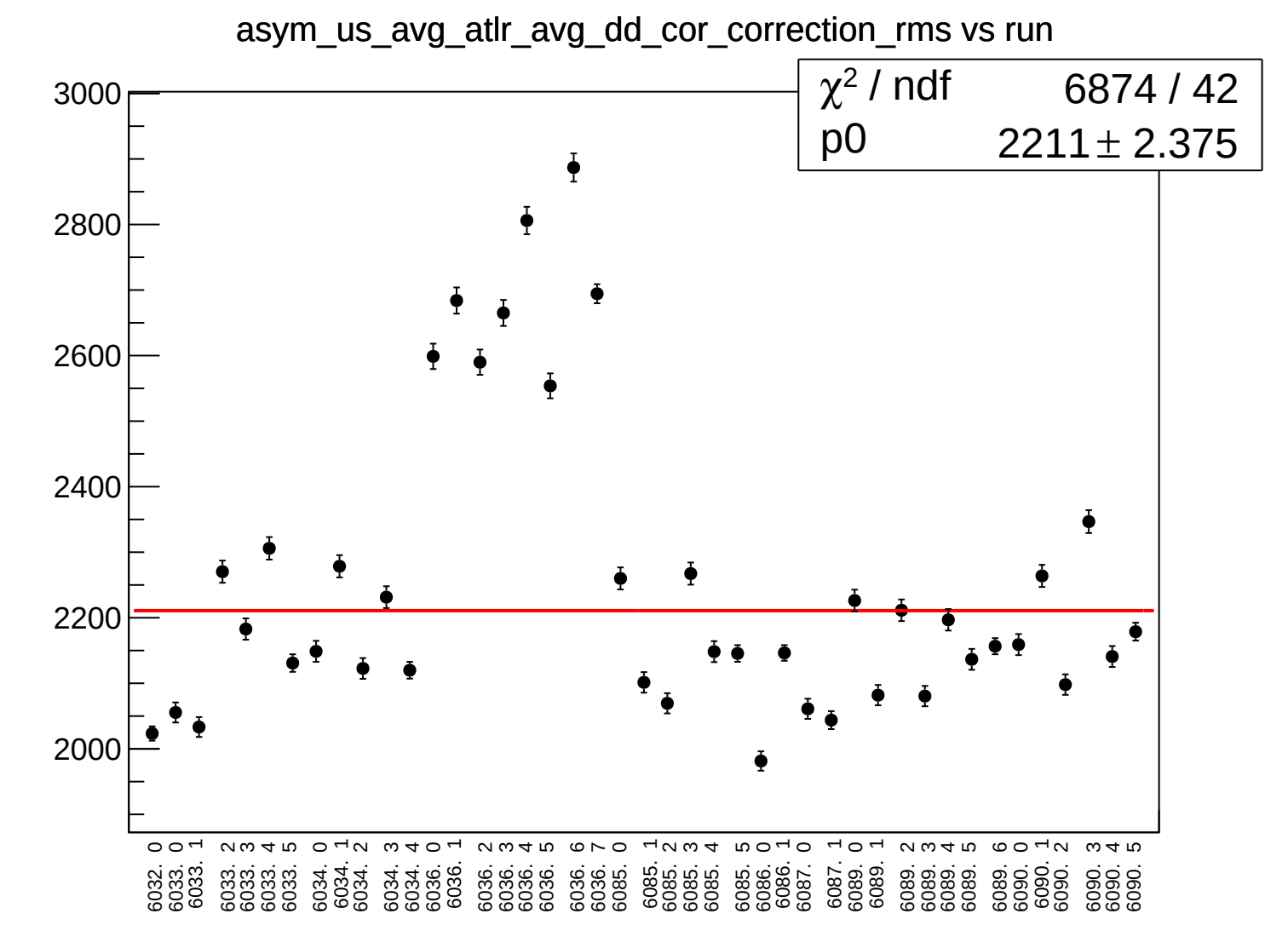

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.38 / 42
p0 −221.9 ± 3359
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03646
Std Dev 0.9803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

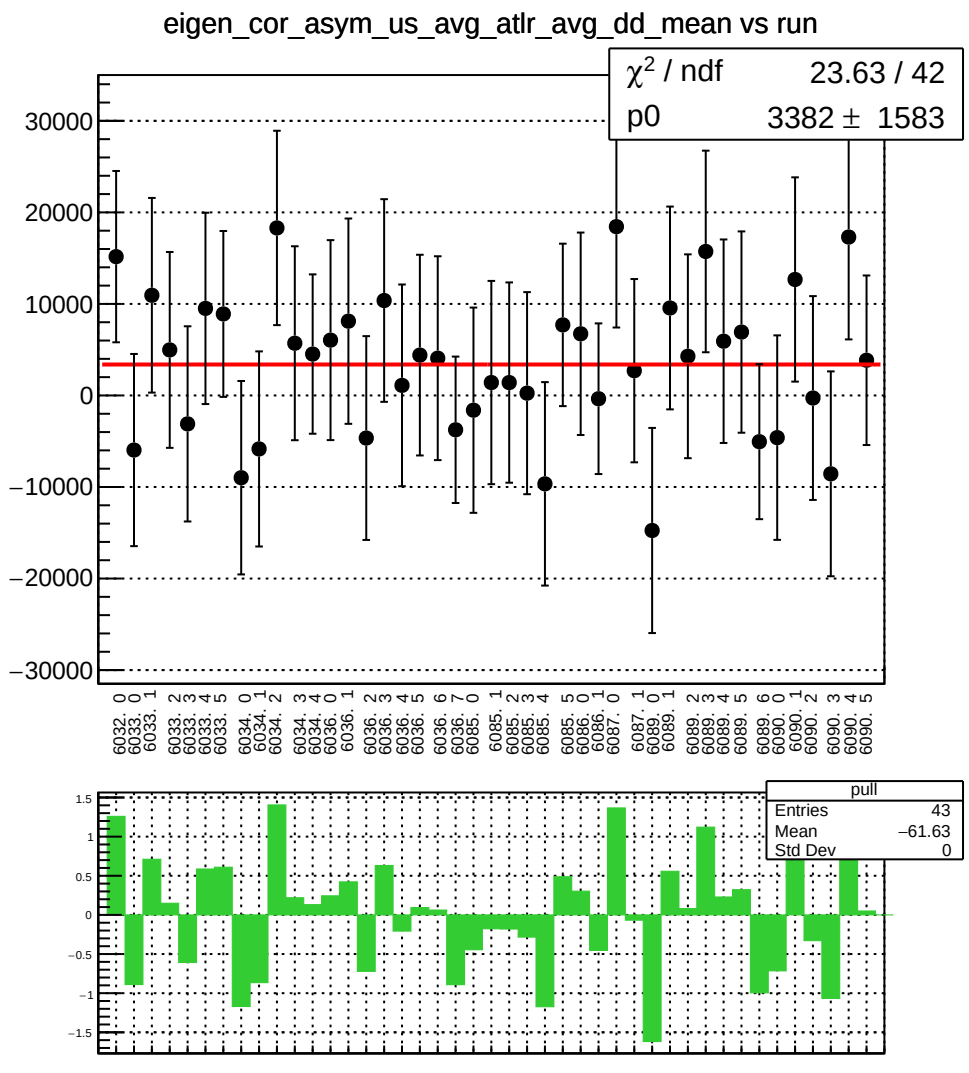

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 6875 / 42
p0 2211 ± 2.375
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

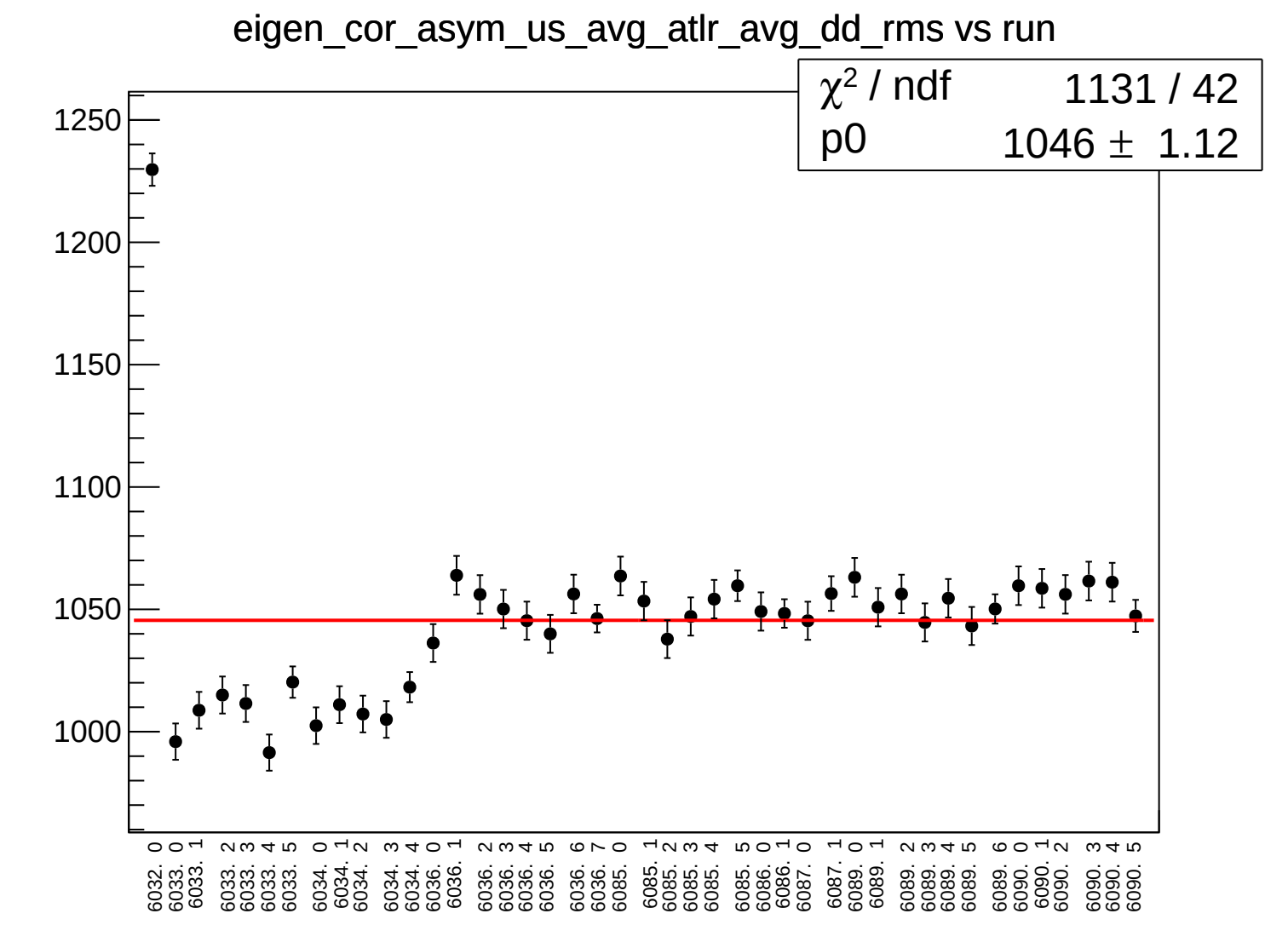

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 23.63 / 42
p0 3382 ± 1583
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −61.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006072
Std Dev 0.7413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

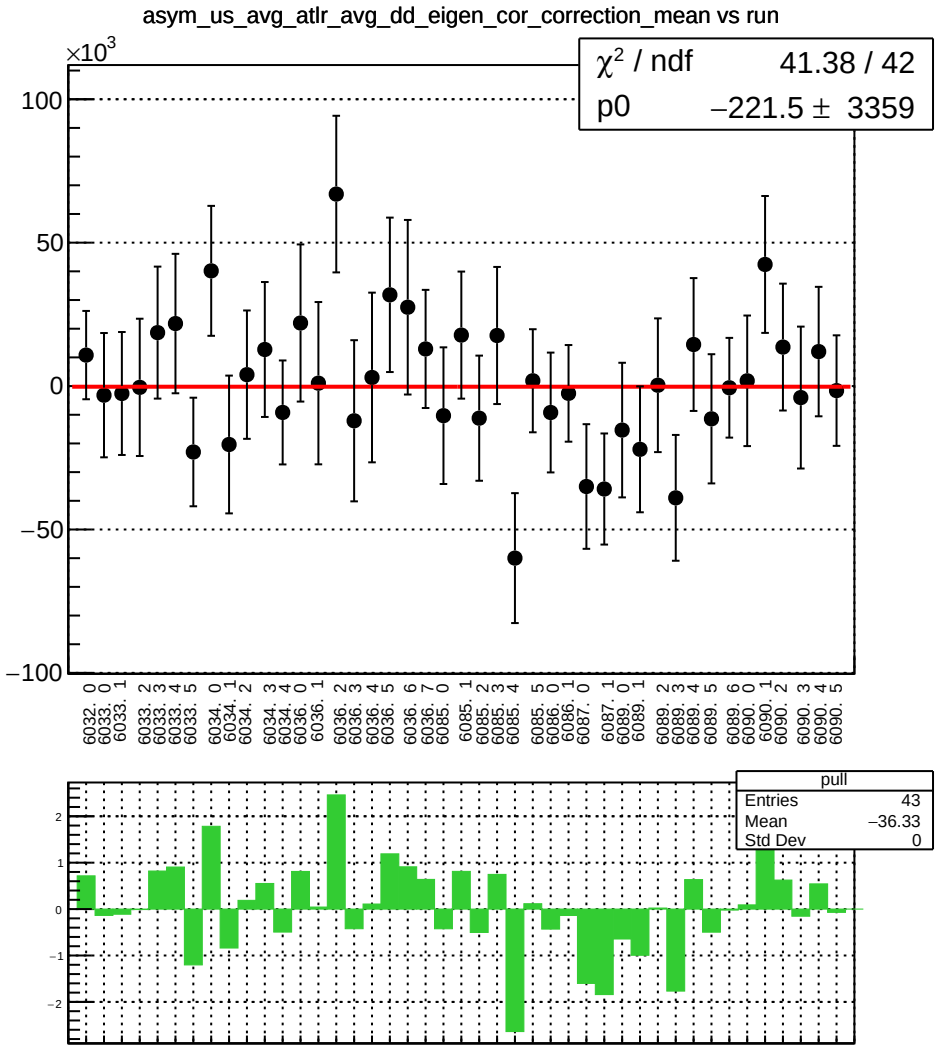

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1131 / 42
p0 1046 ± 1.12
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

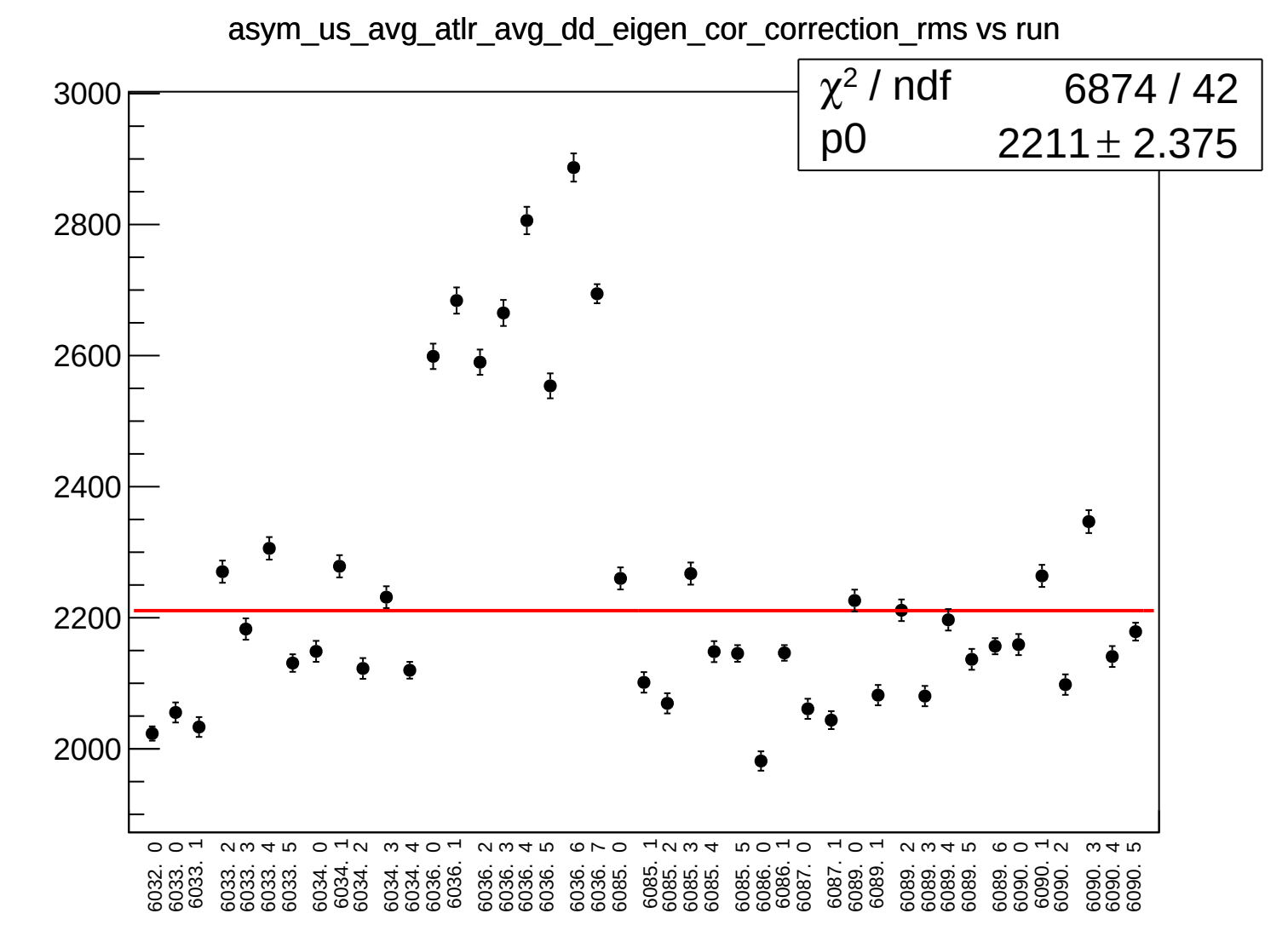

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.38 / 42
p0 −221.5 ± 3359
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03645
Std Dev 0.9803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

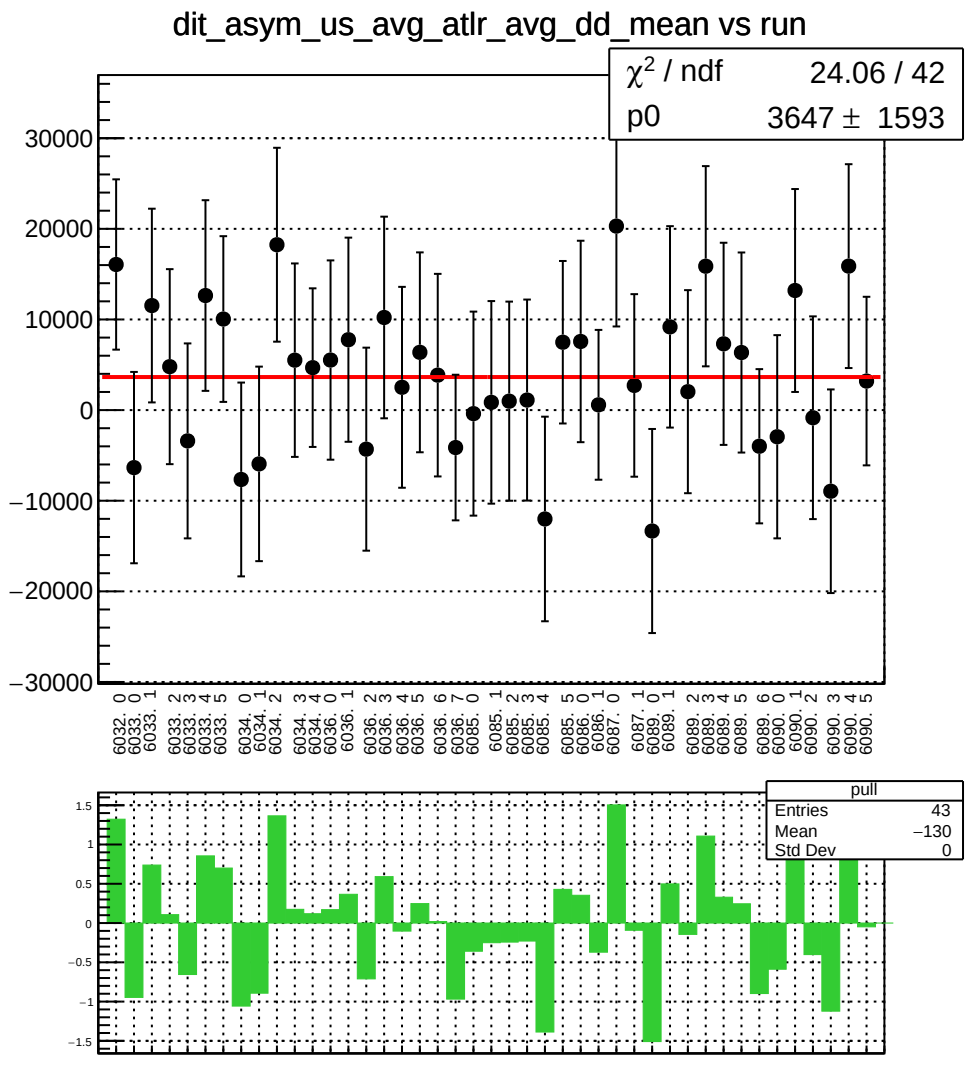

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6874 / 42
p0 2211 ± 2.375
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

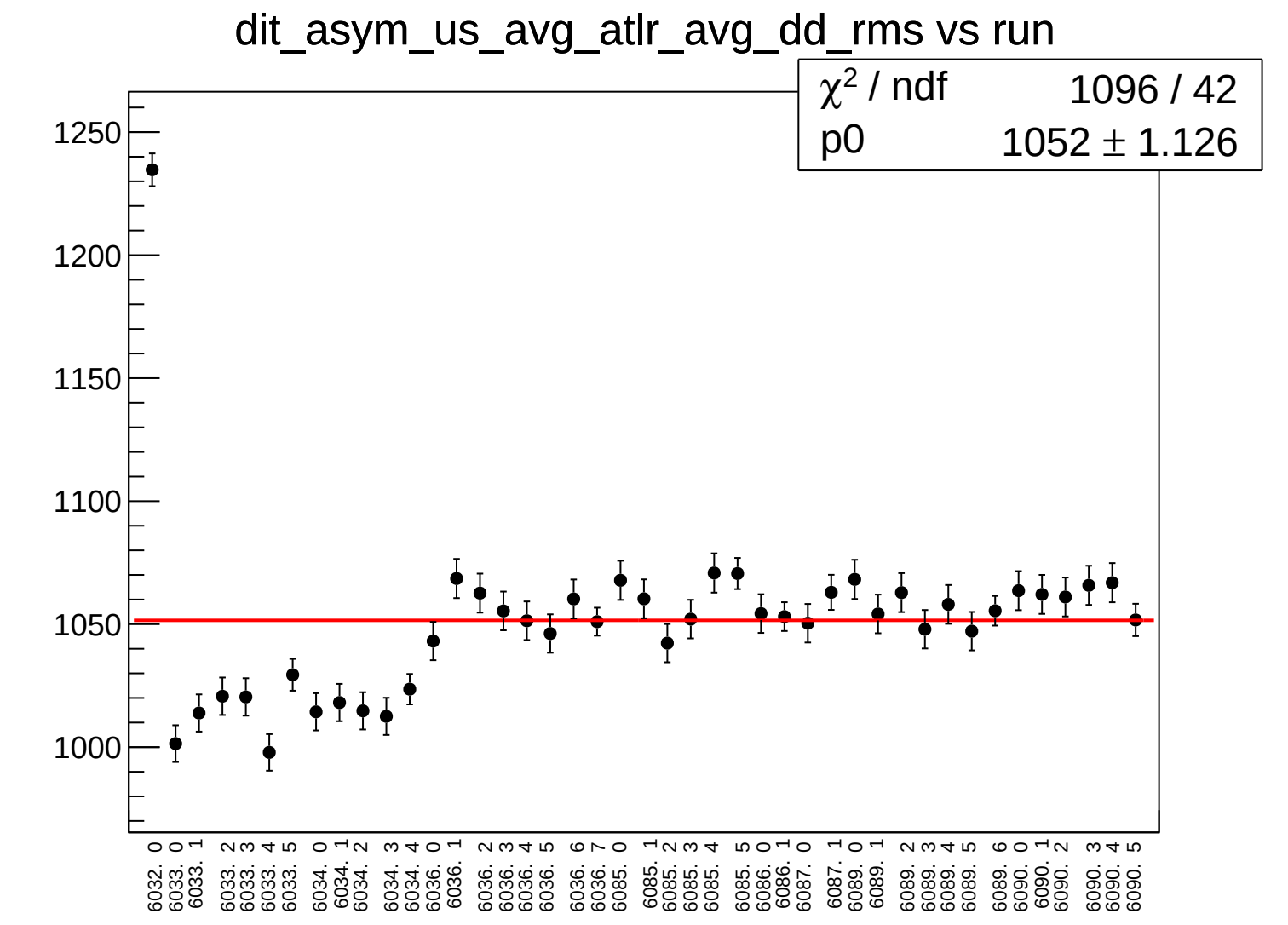

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 23.63 / 42
p0 3382 ± 1583
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −61.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006072
Std Dev 0.7413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

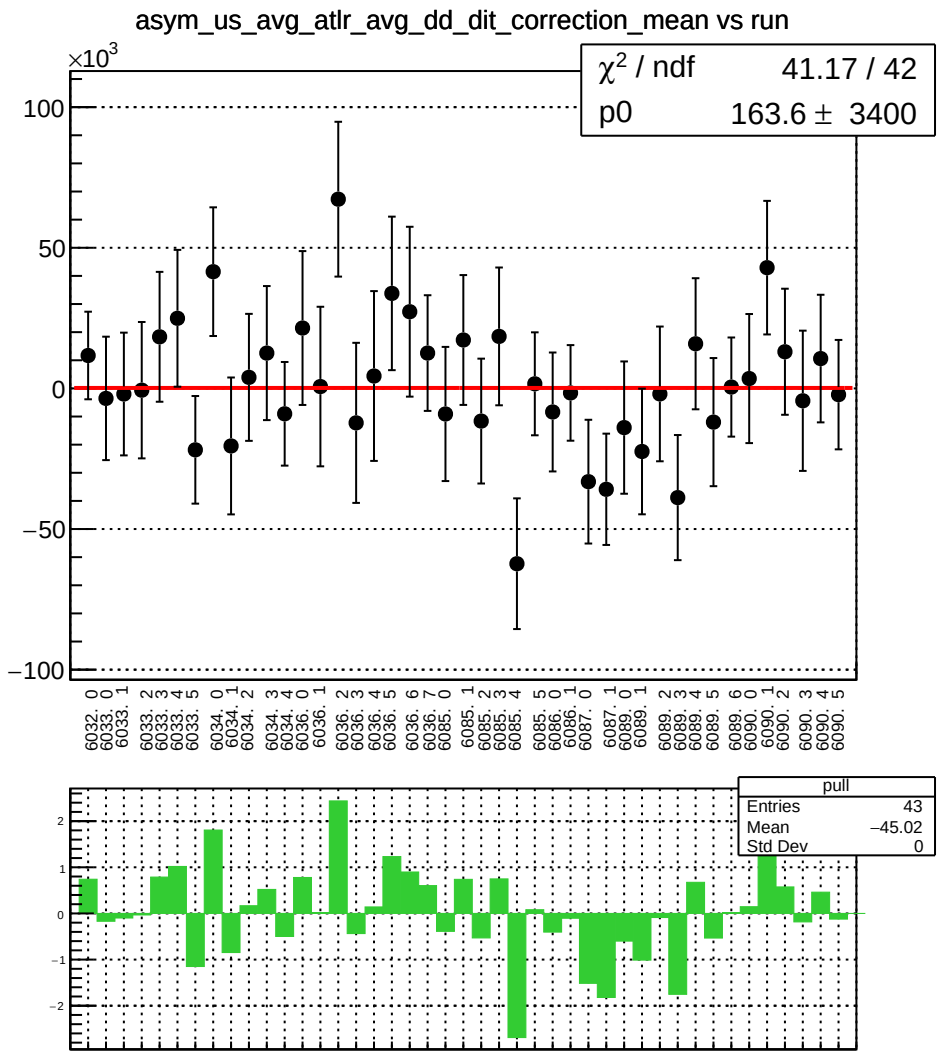

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1131 / 42
p0 1046 ± 1.12
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

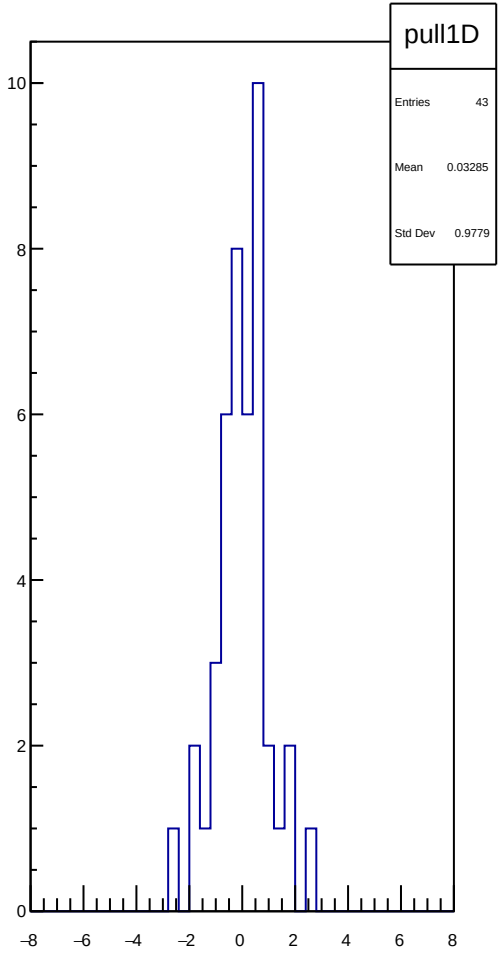

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.38 / 42
p0 −221.5 ± 3359
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03645
Std Dev 0.9803
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

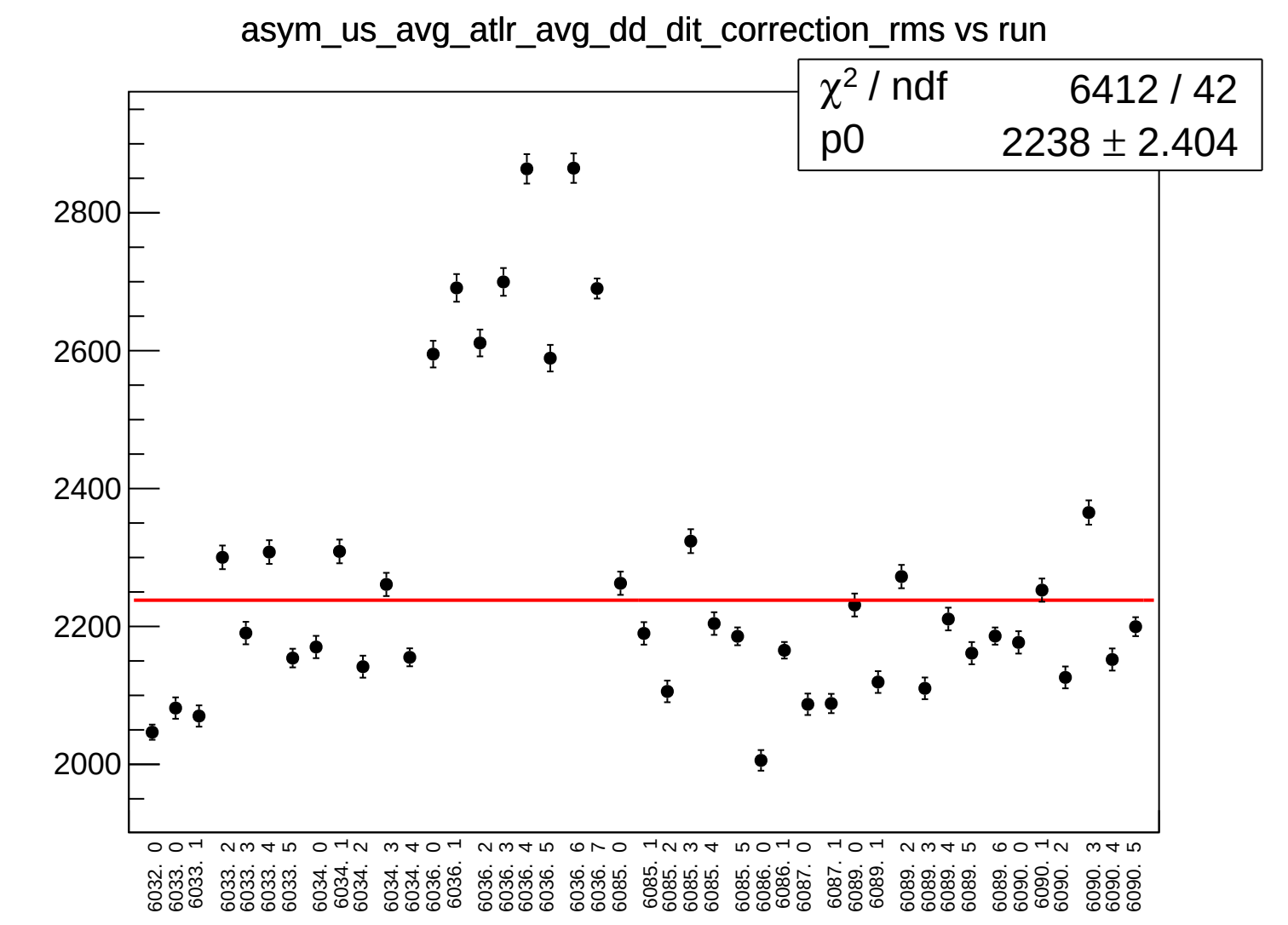

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6874 / 42
p0 2211 ± 2.375
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

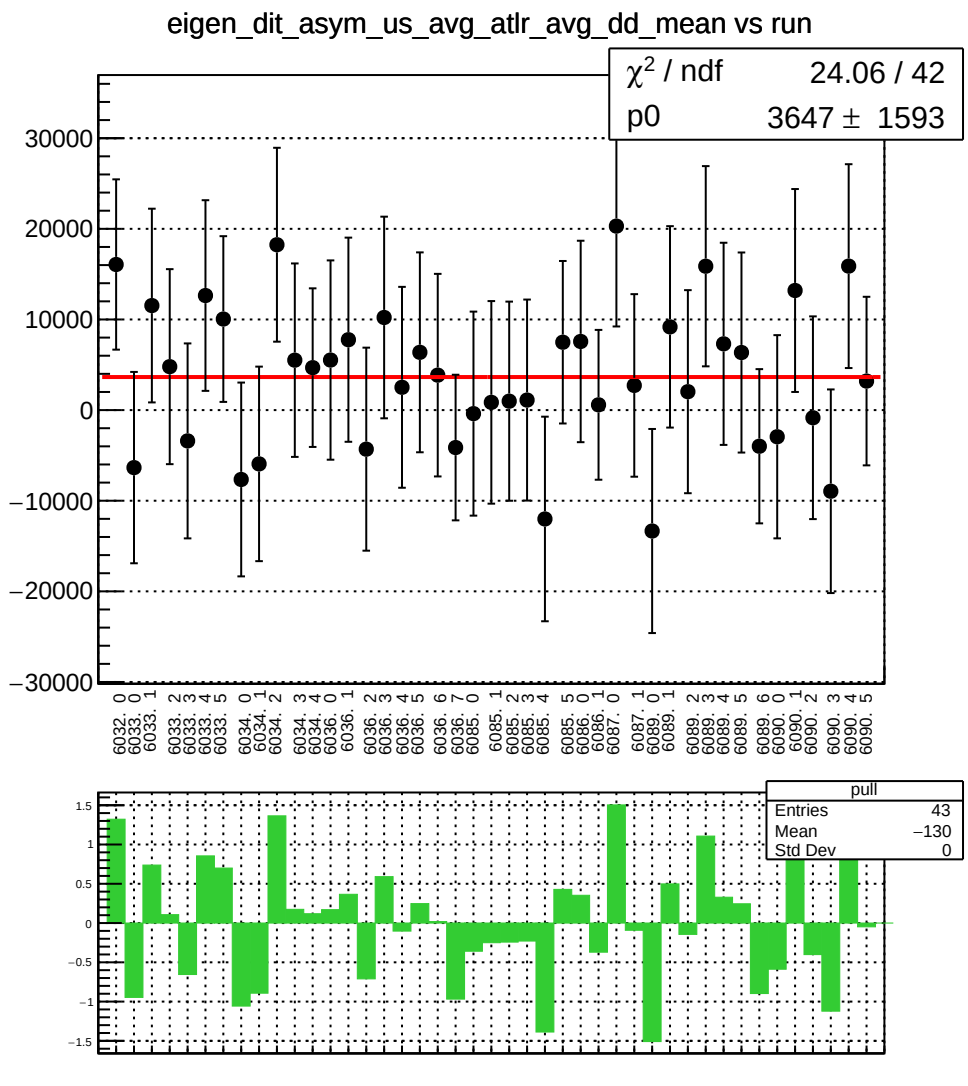

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 24.06 / 42
p0 3647 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −130
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.004806
Std Dev 0.7481
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

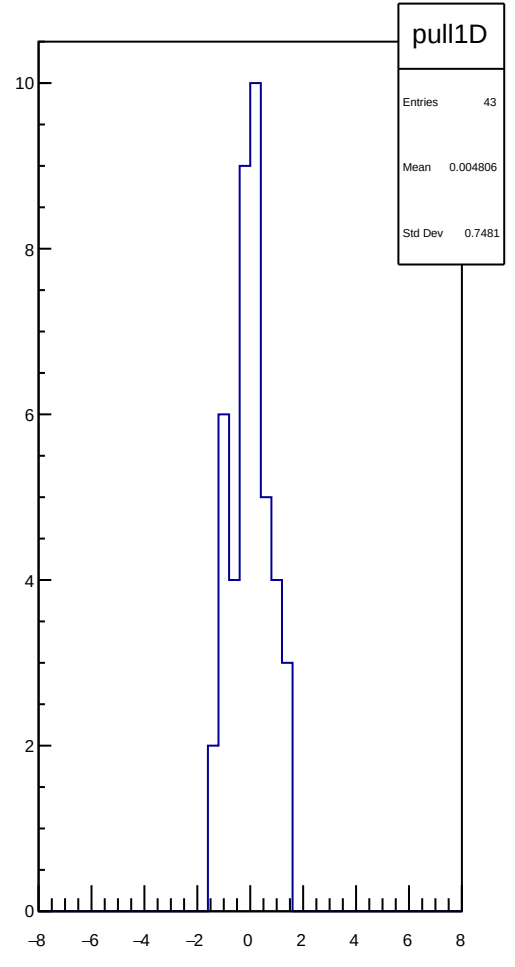

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1096 / 42
p0 1052 ± 1.126
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

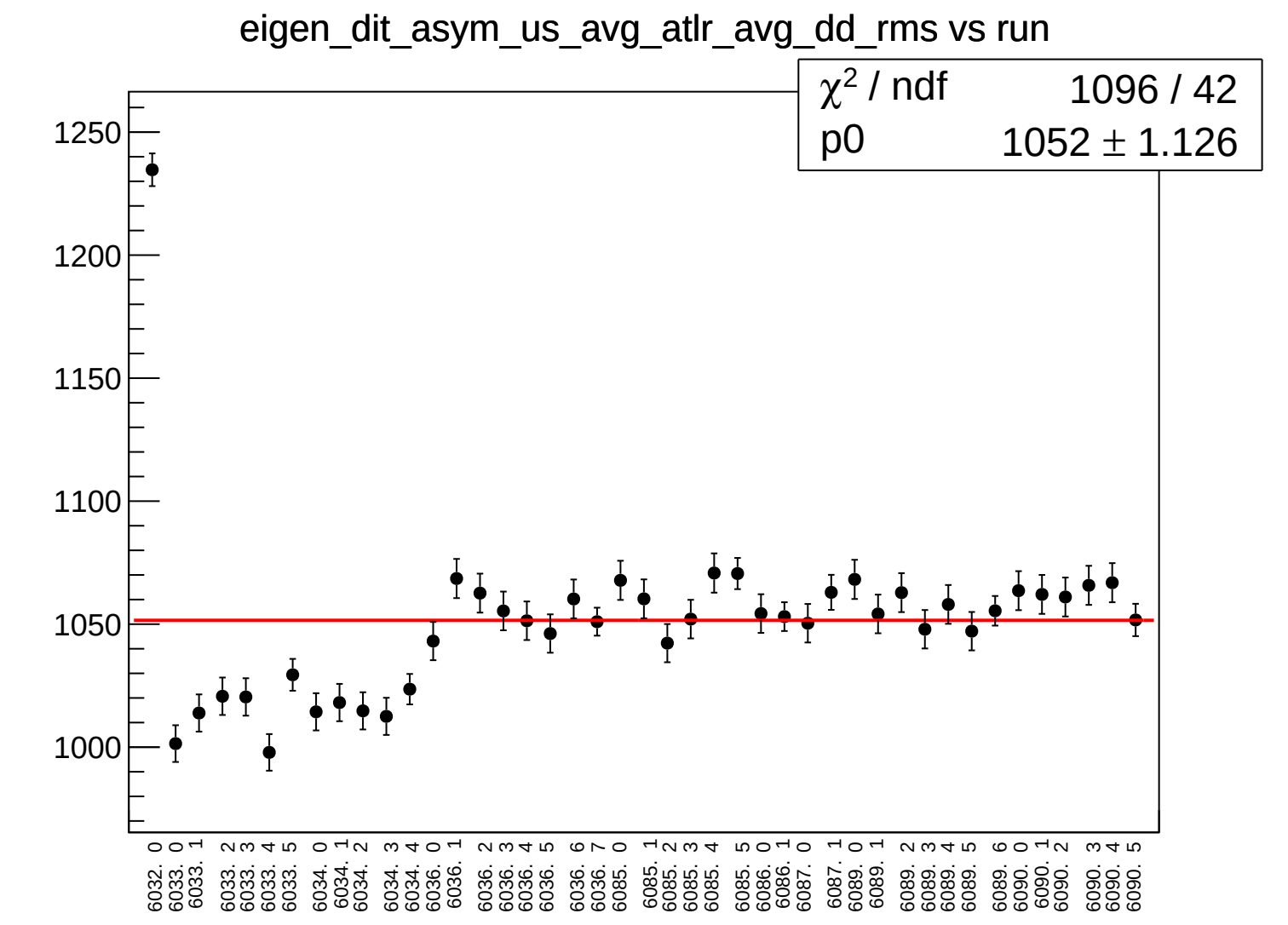

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.17 / 42
p0 163.6 ± 3400
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −45.02
Std Dev 0
2
1
0
−1
−2

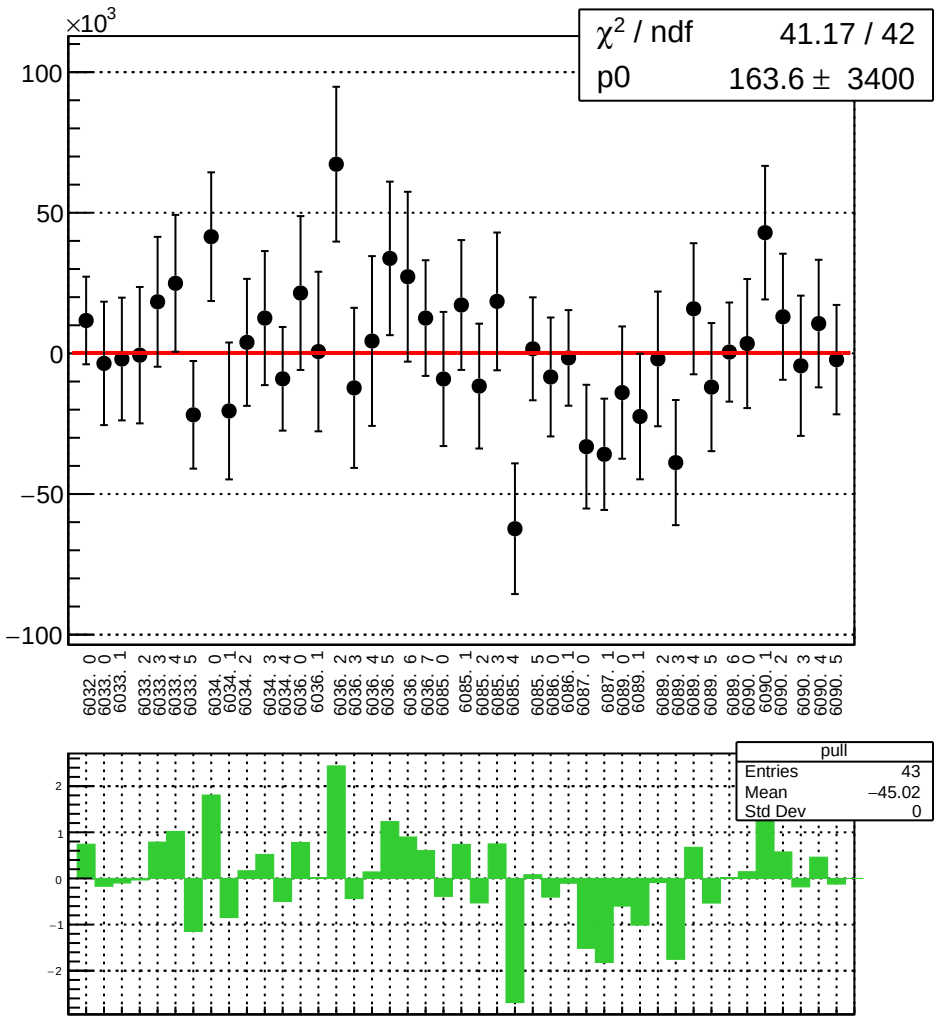

pull1D
Entries 43
Mean 0.03285
Std Dev 0.9779
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

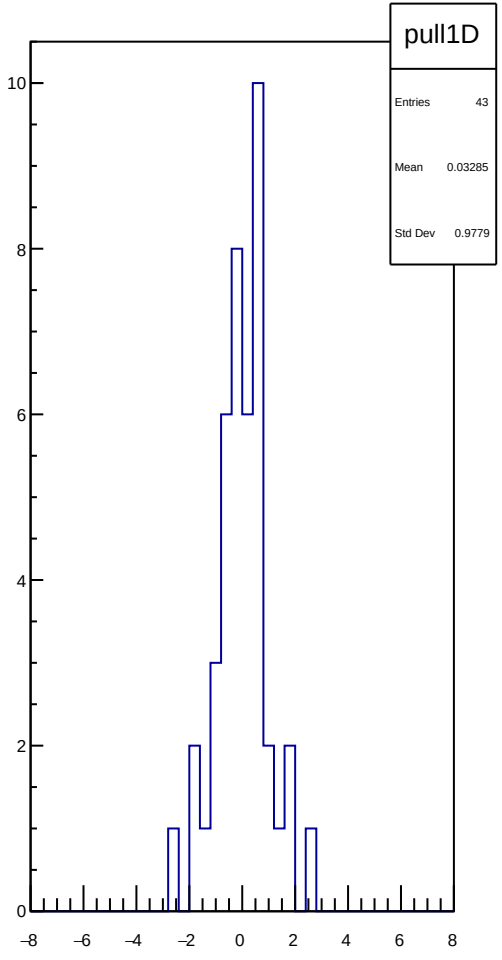

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 6412 / 42
p0 2238 ± 2.404
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

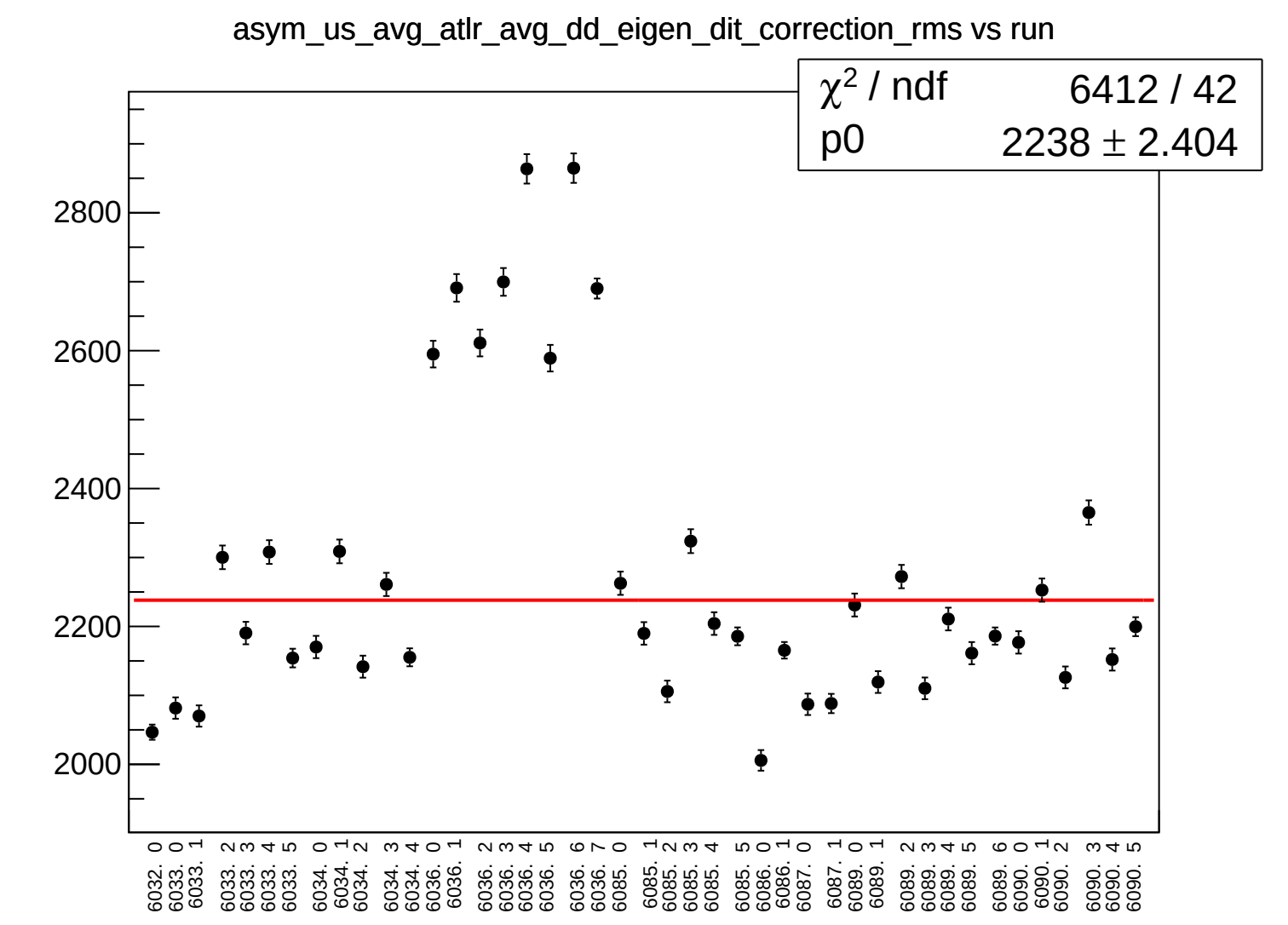

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 24.06 / 42
p0 3647 ± 1593
pull
Entries 43
Mean −130
Std Dev 0

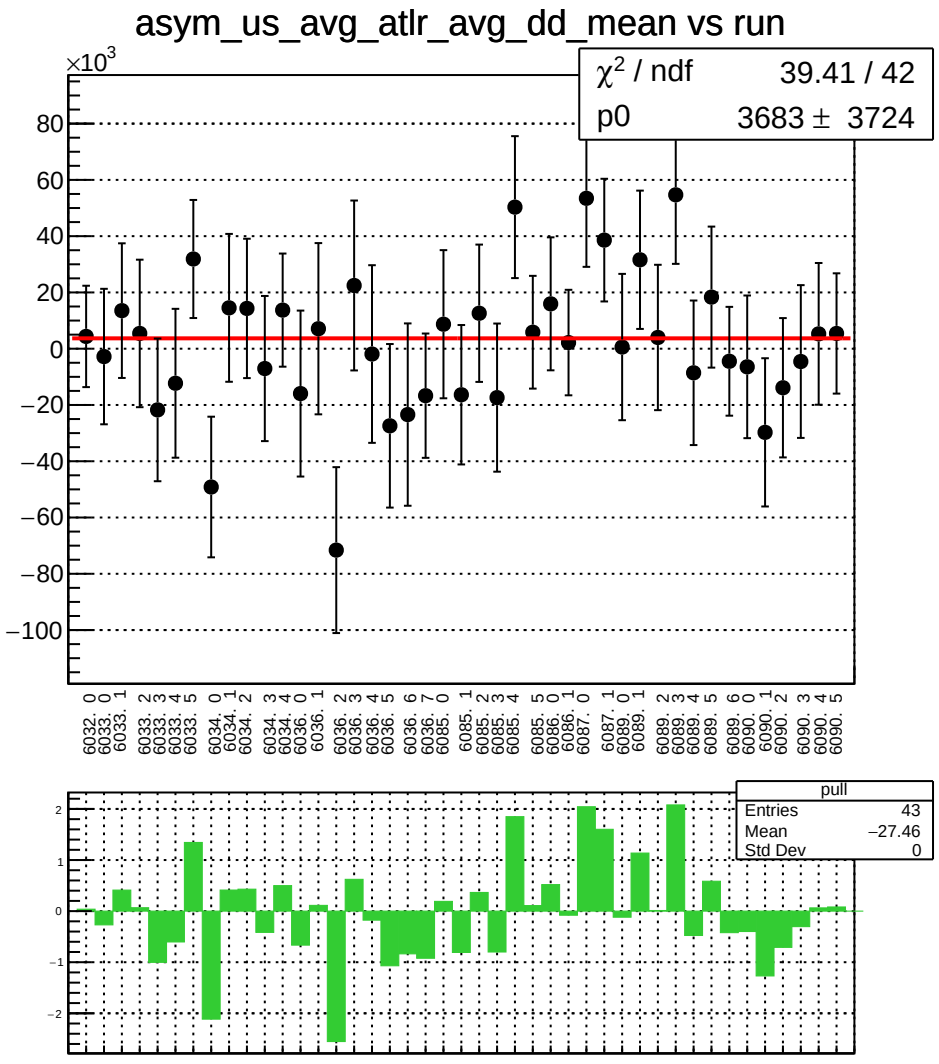

pull1D
Entries 43
Mean 0.004806
Std Dev 0.7481

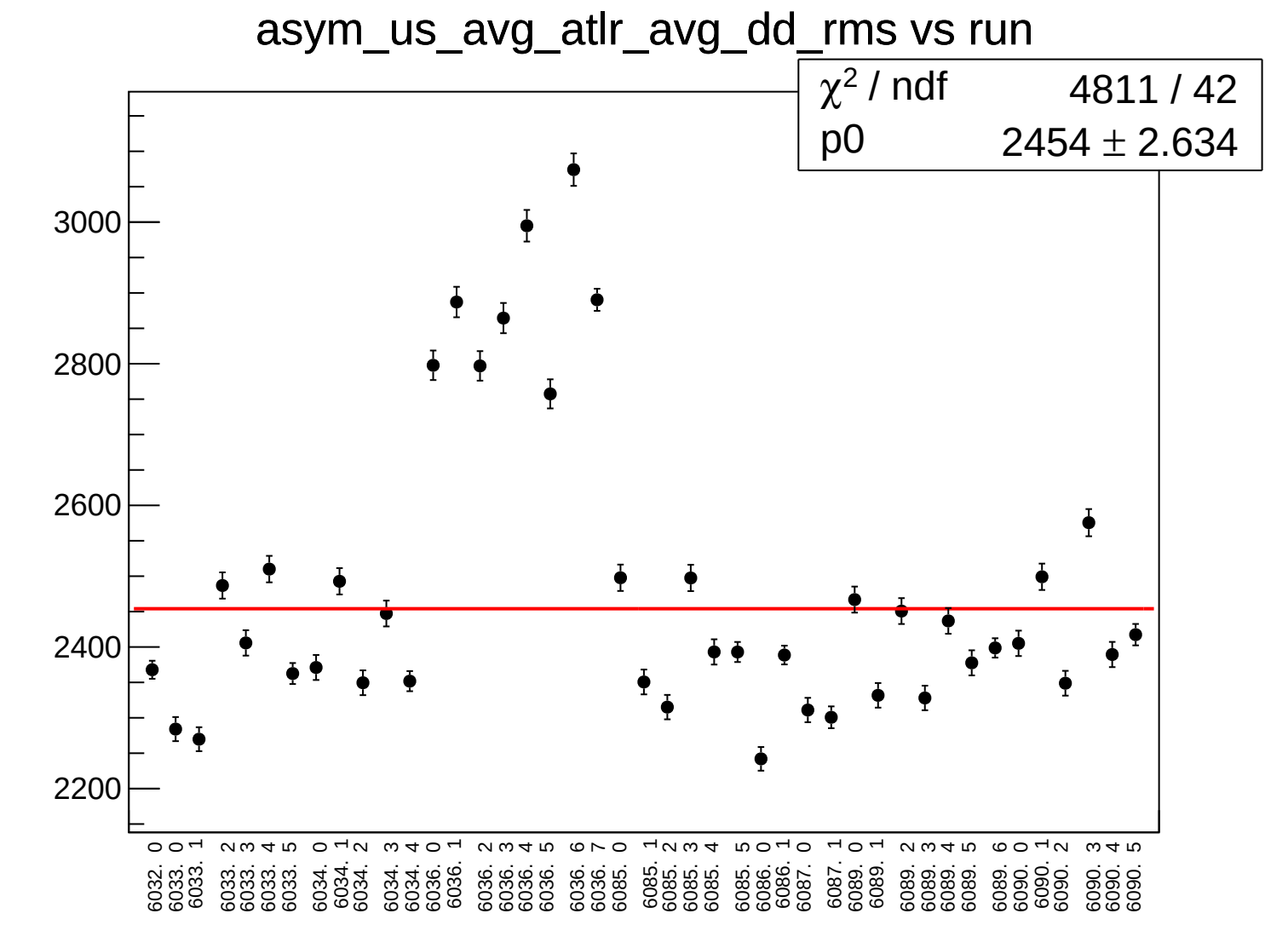

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1096 / 42
p0 1052 ± 1.126
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

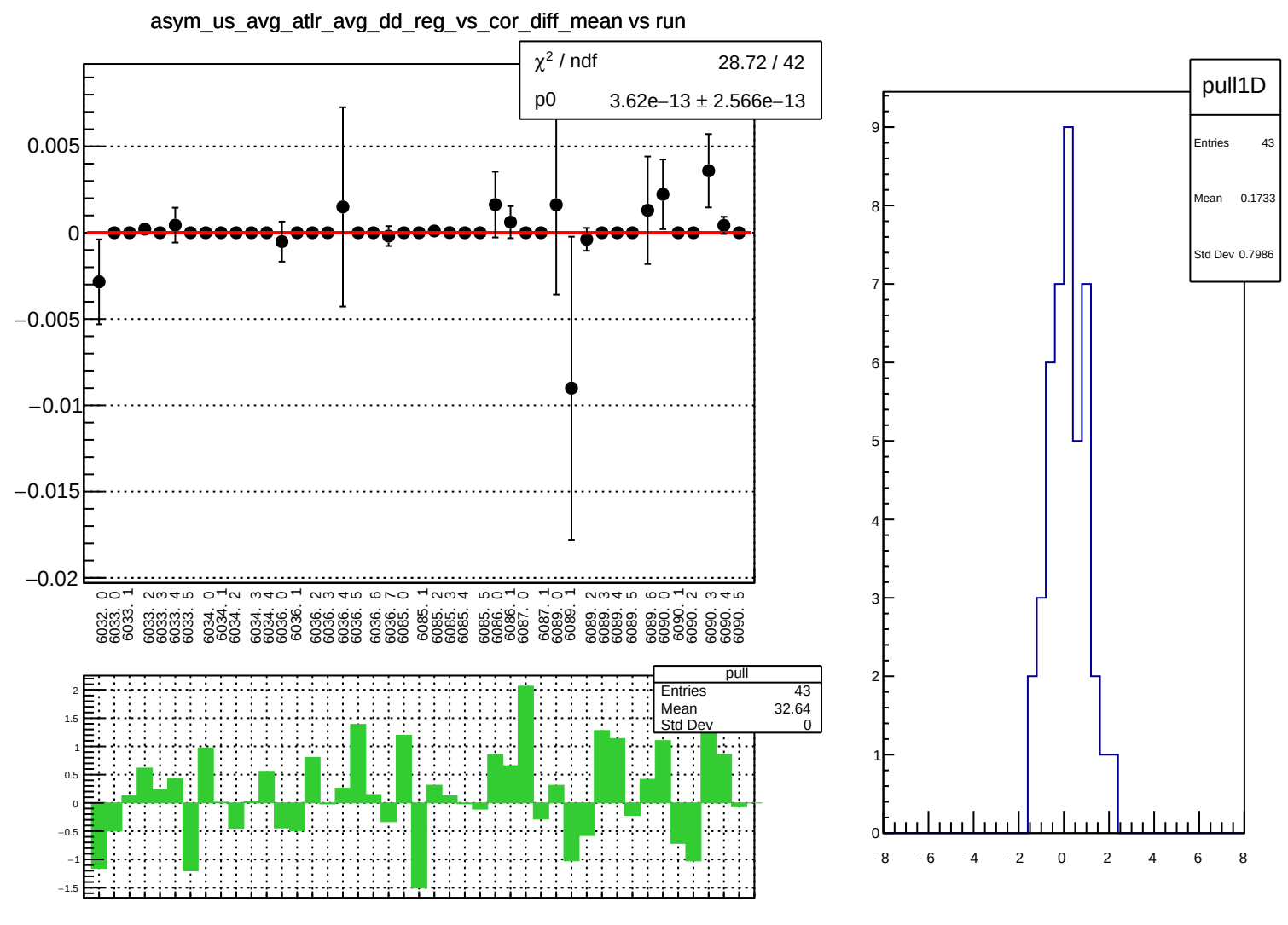

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41.17 / 42
p0 163.6 ± 3400
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −45.02
Std Dev 0
2
1
0
−1
−2

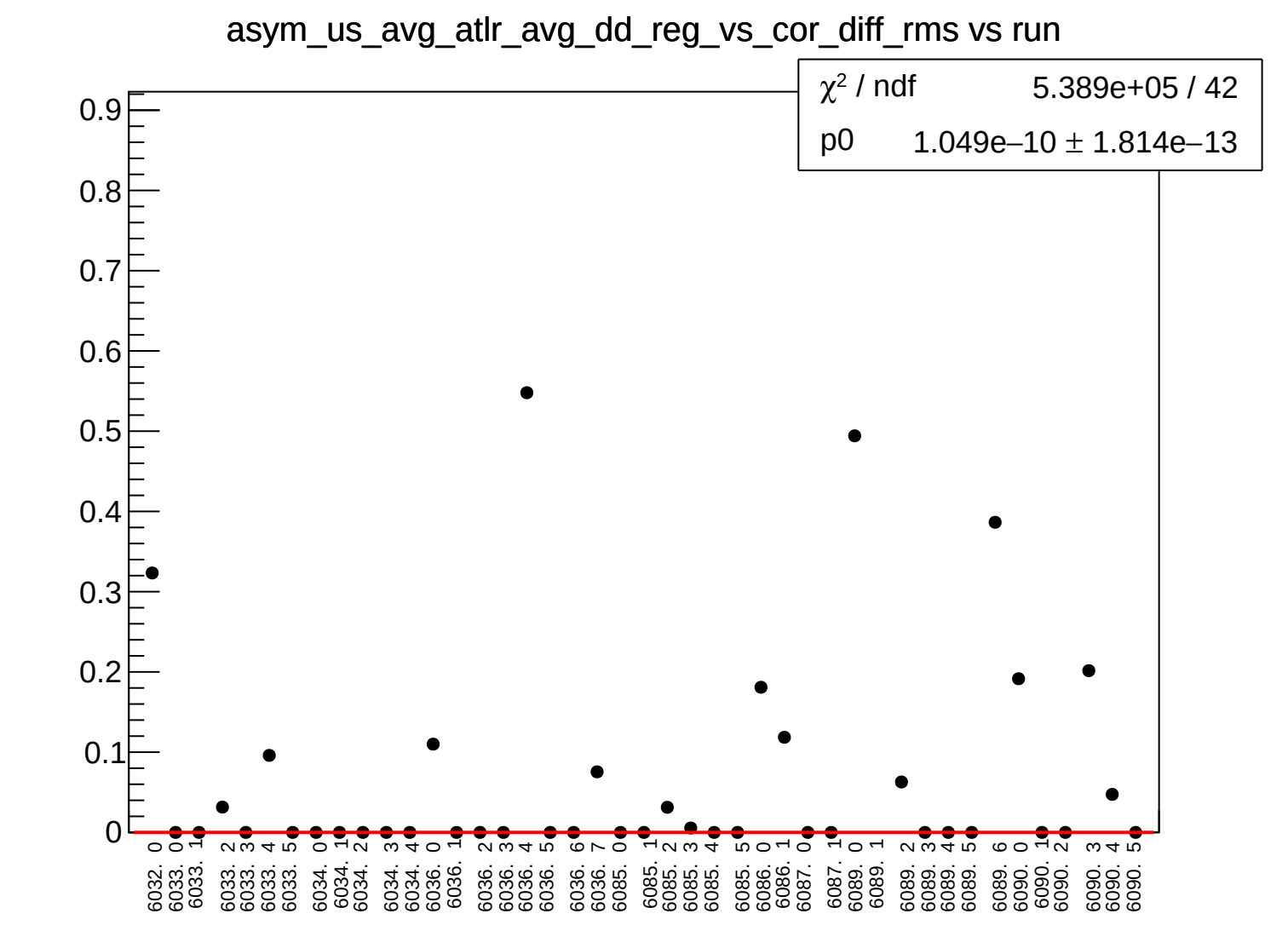

pull1D
Entries 43
Mean 0.03285
Std Dev 0.9779
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

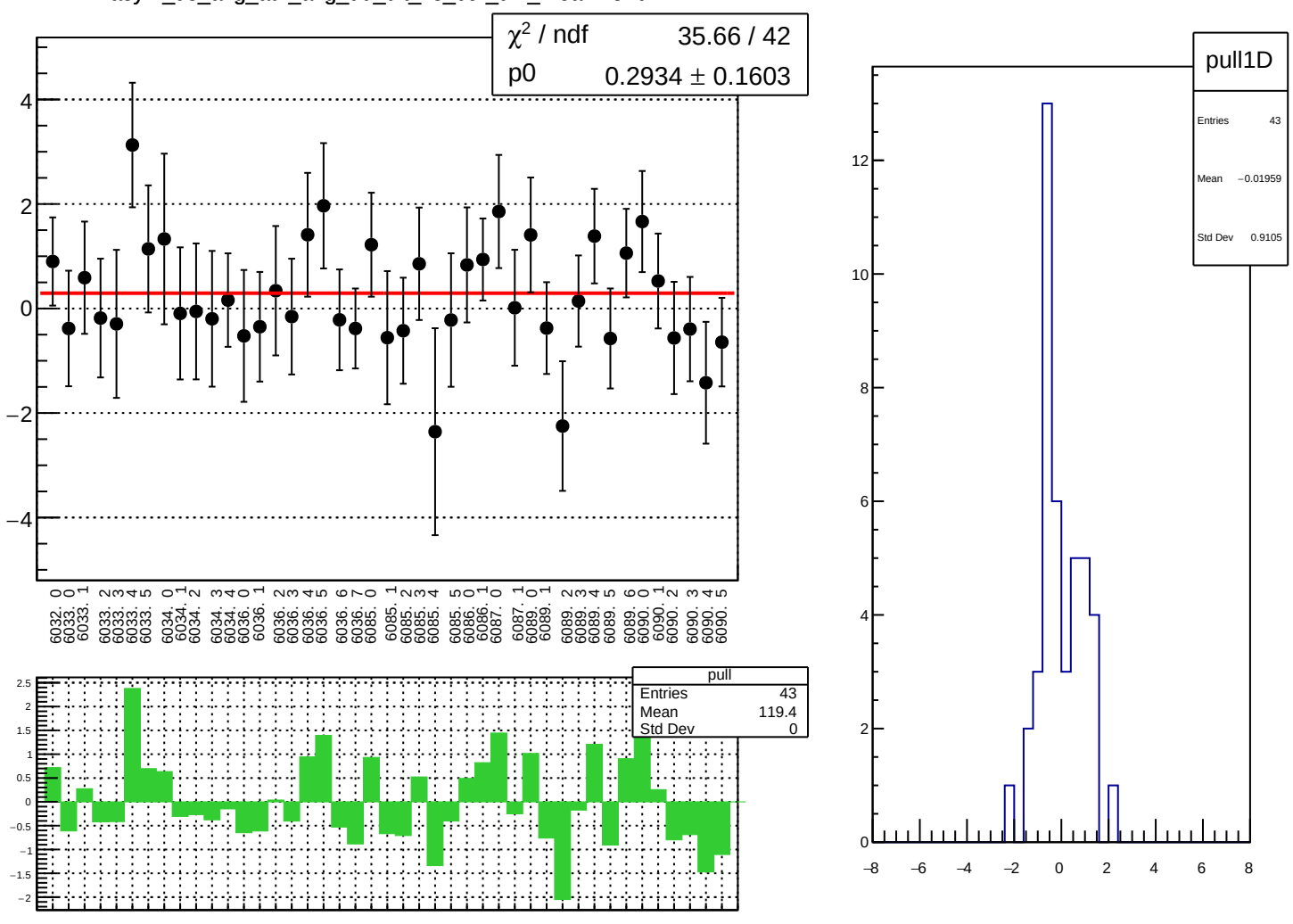

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6412 / 42
p0 2238 ± 2.404
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

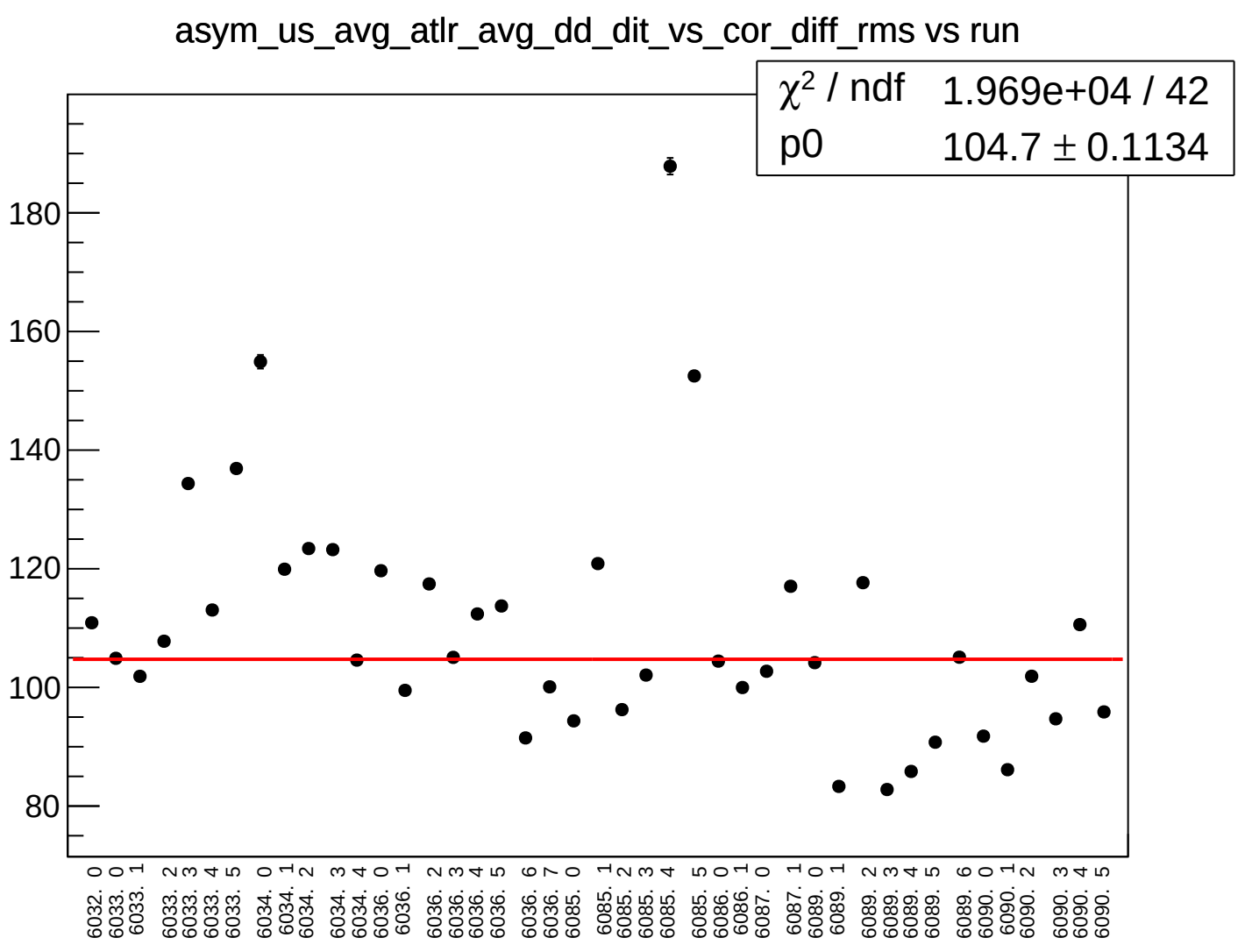

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 39.41 / 42
p0 3683 ± 3724
80
60
40
20
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03364
Std Dev 0.9568
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_rms vs run
χ² / ndf 4811 / 42
p0 2454 ± 2.634
3000
2800
2600
2400
2200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.72 / 42
p0 3.62e−13 ± 2.566e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1733
Std Dev 0.7986
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_vs_cor_diff_rms vs run
χ² / ndf 5.389e+05 / 42
p0 1.049e−10 ± 1.814e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.66 / 42
p0 0.2934 ± 0.1603
pull
Entries 43
Mean 119.4
Std Dev 0
pull1D
Entries 43
Mean −0.01959
Std Dev 0.9105


asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.969e+04 / 42
p0 104.7 ± 0.1134
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
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6090. 2
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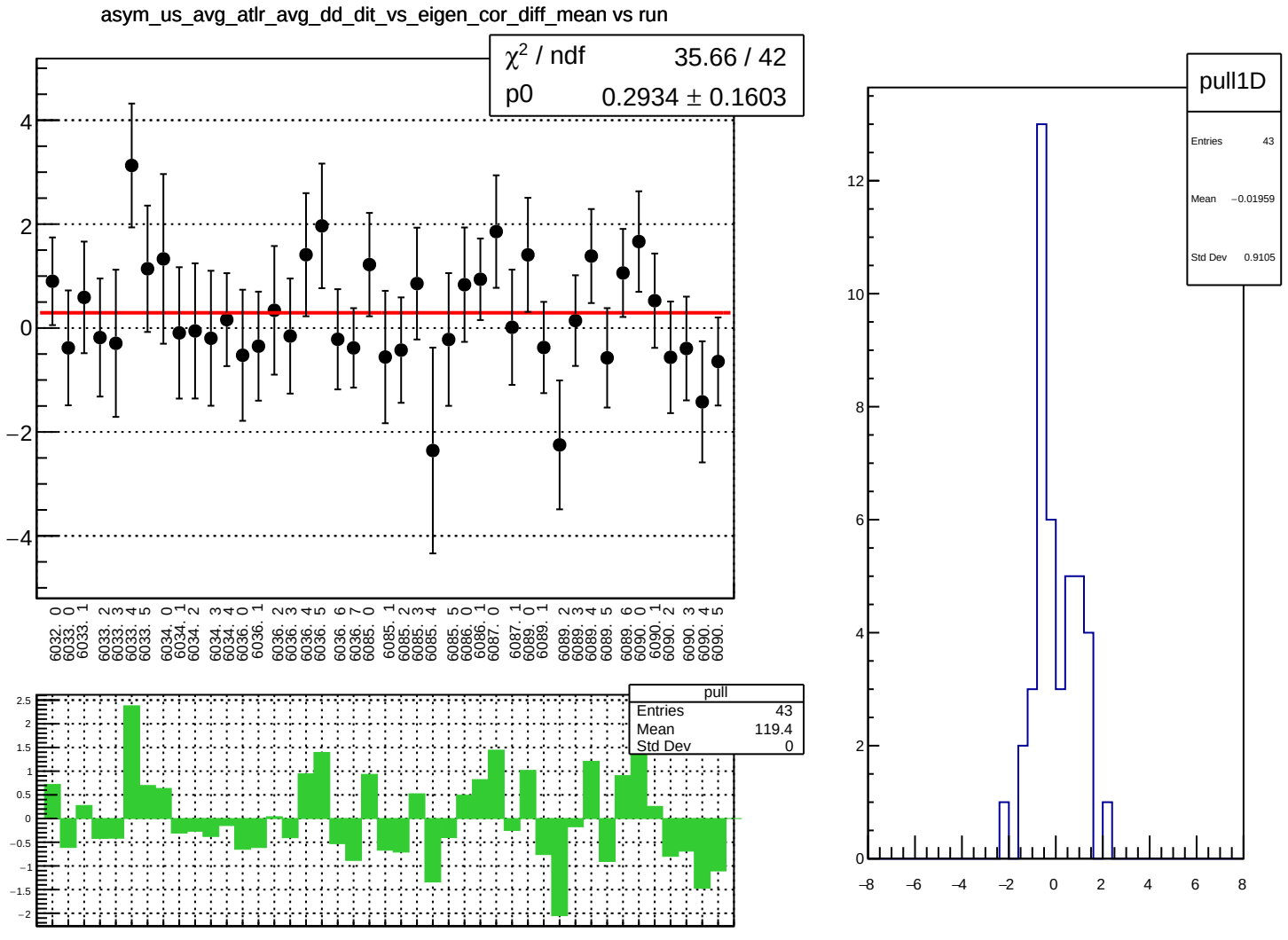
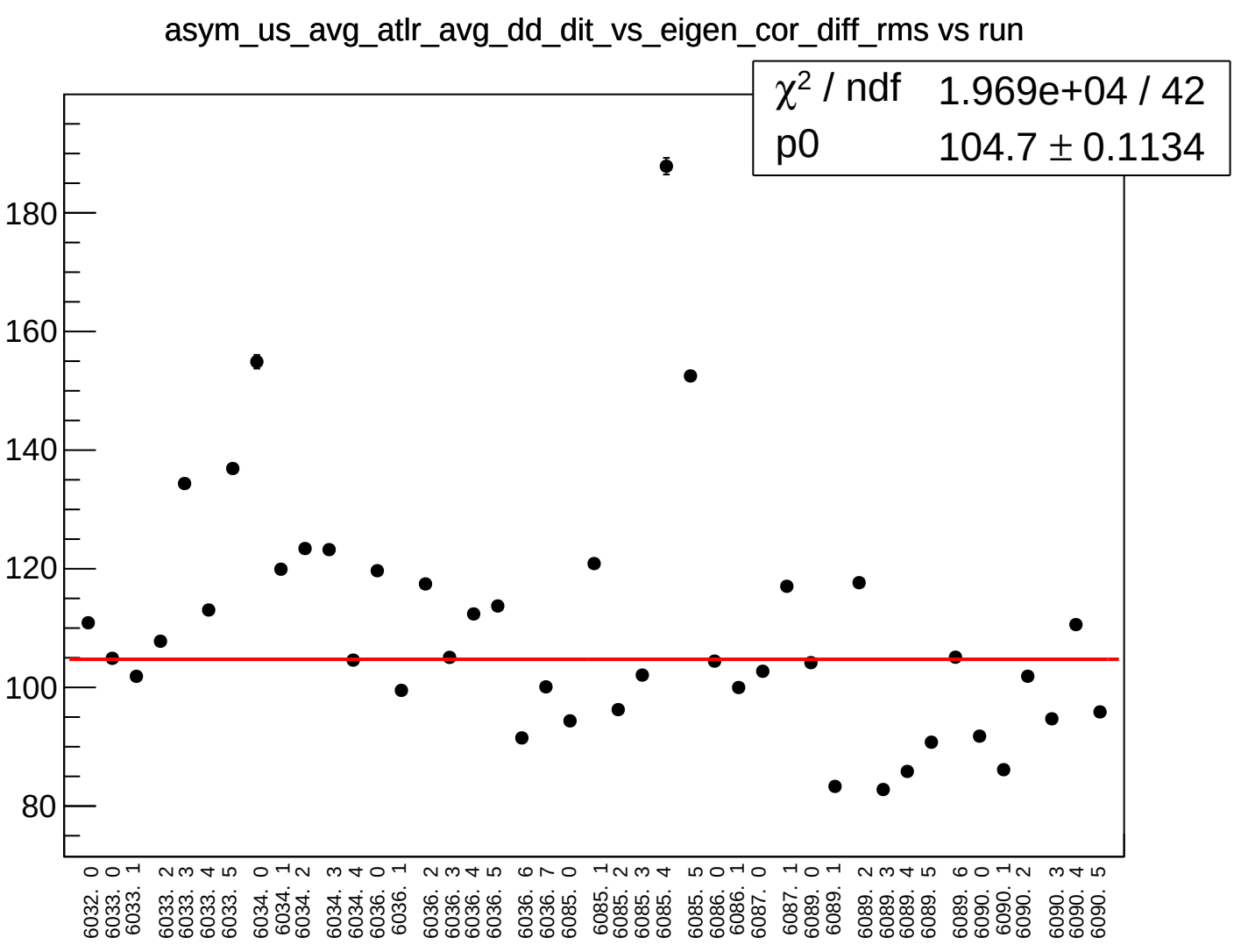
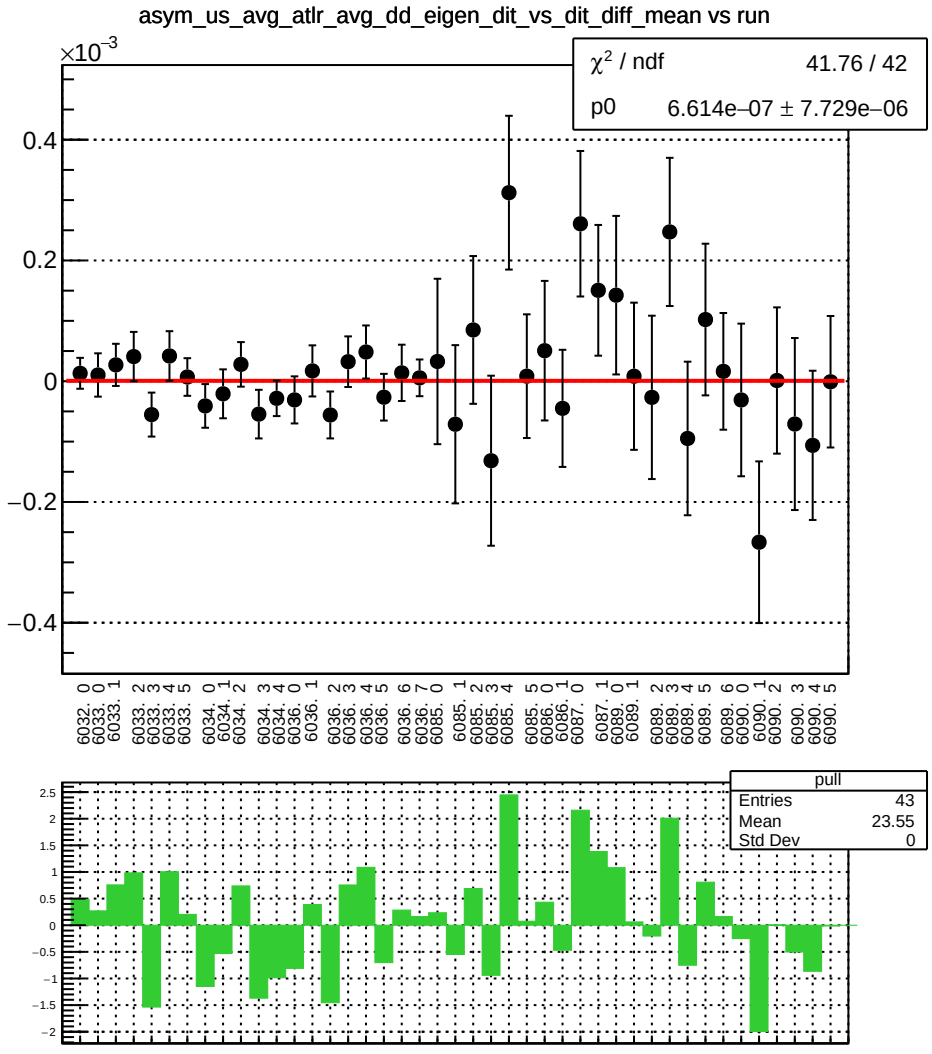
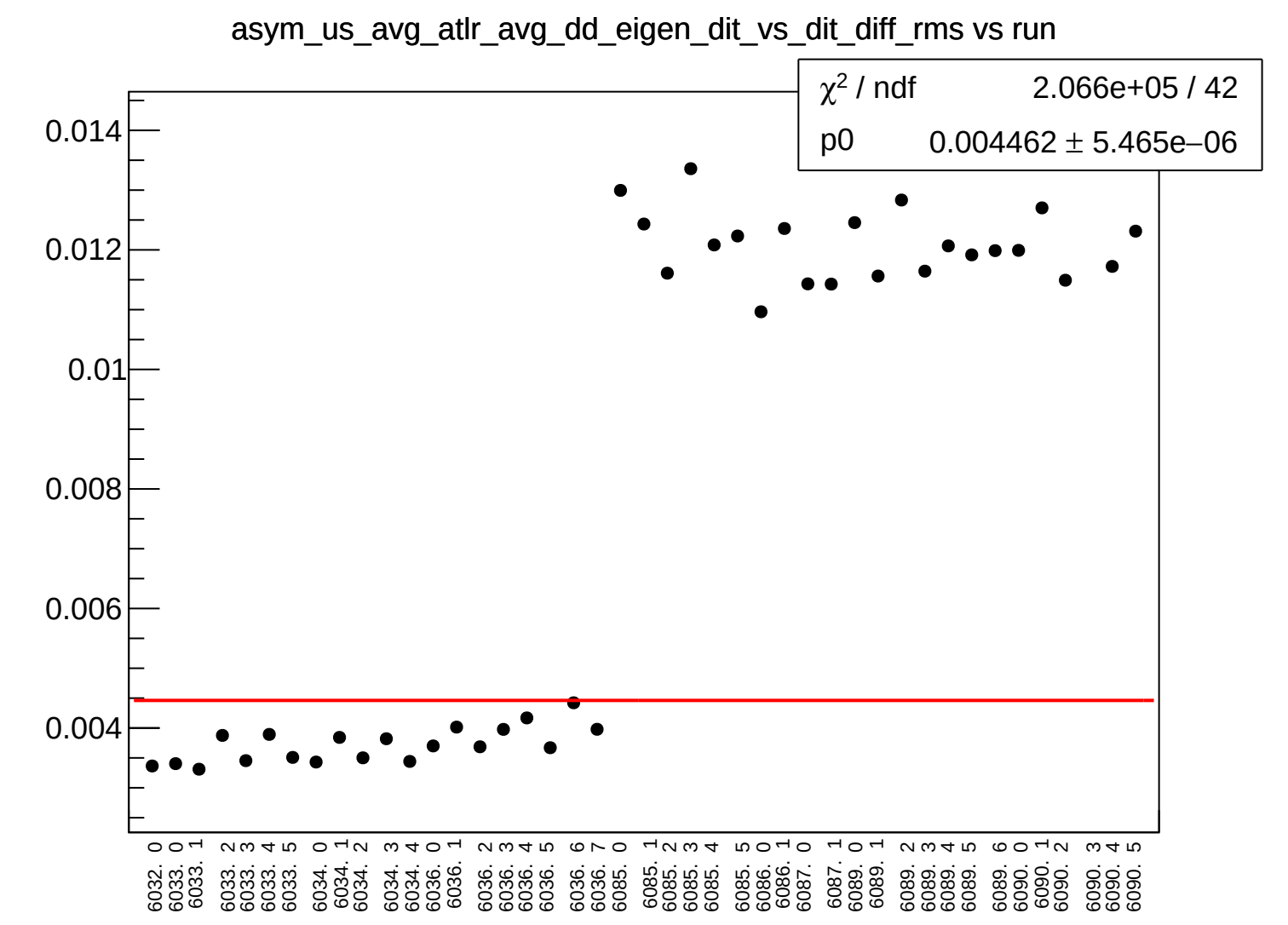
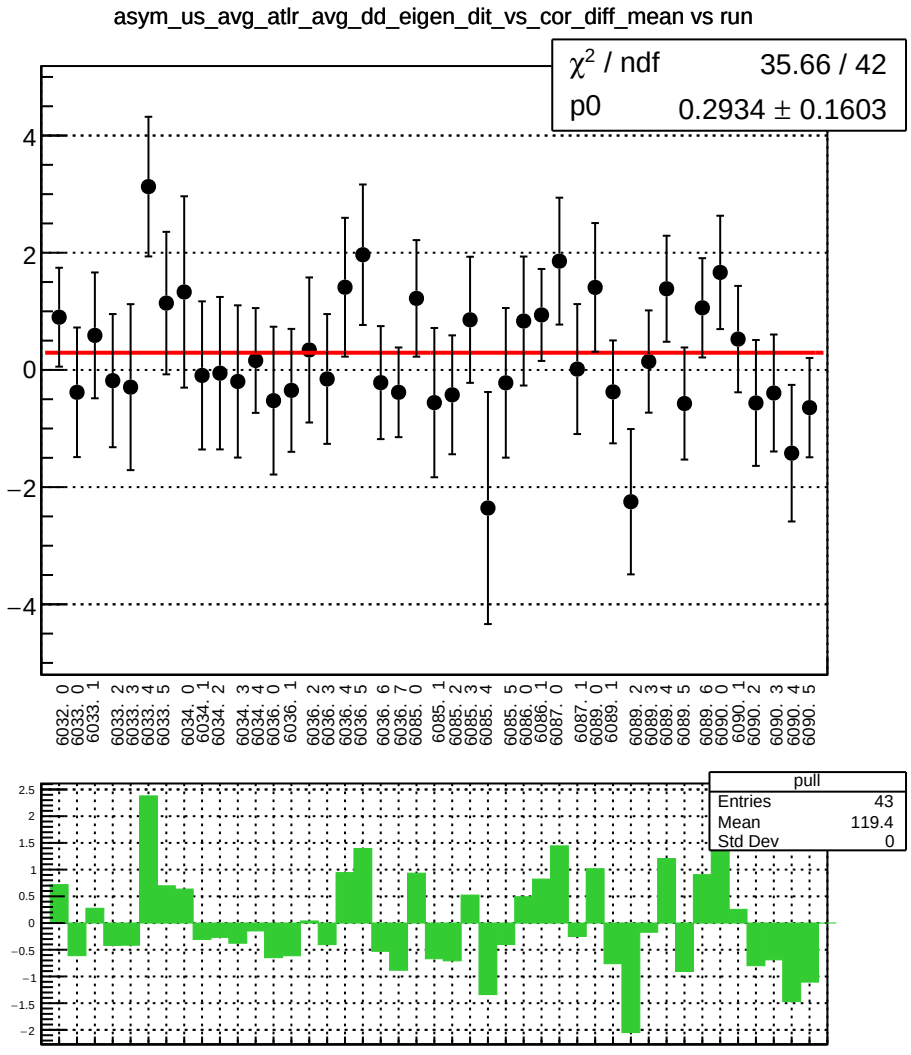
6090. 4
6090. 5

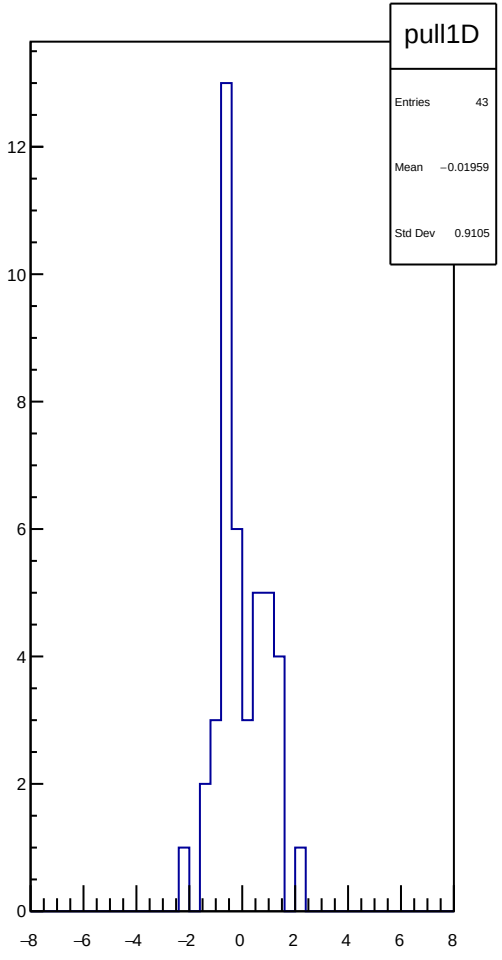

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.66 / 42
p0 0.2934 ± 0.1603
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 119.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01959
Std Dev 0.9105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

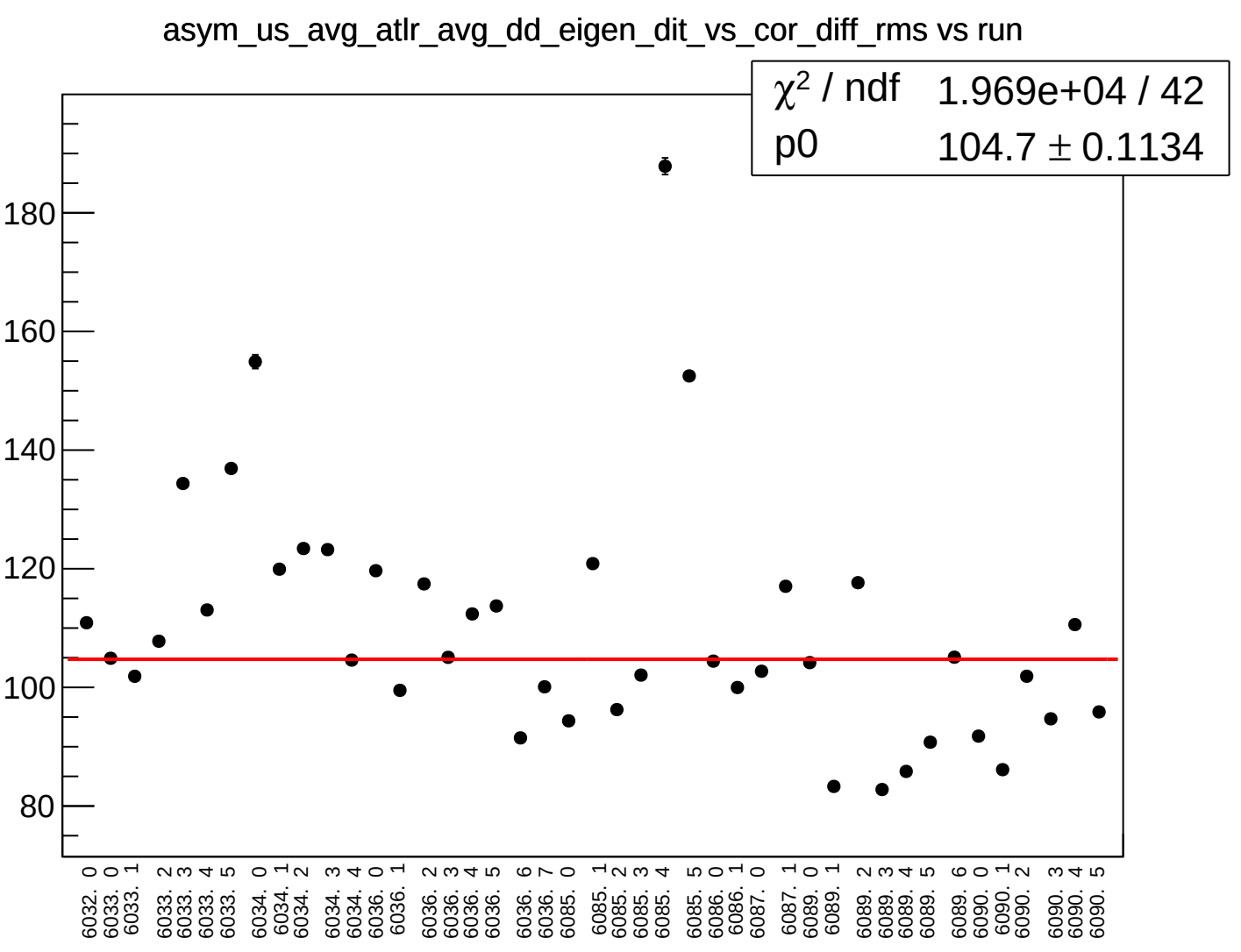

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.969e+04 / 42
p0 104.7 ± 0.1134
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

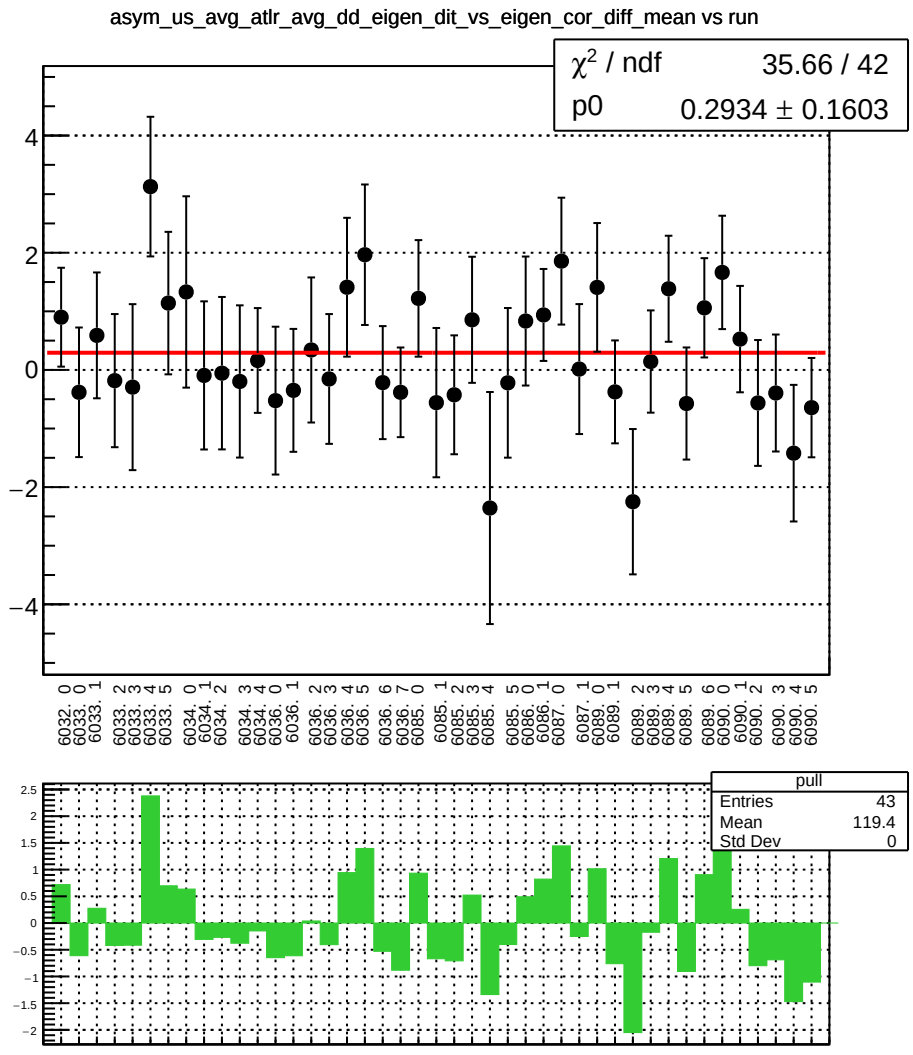

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 41.76 / 42
p0 6.614e−07 ± 7.729e−06
0.4
0.2
0
−0.2
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 23.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.08341
Std Dev 0.982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

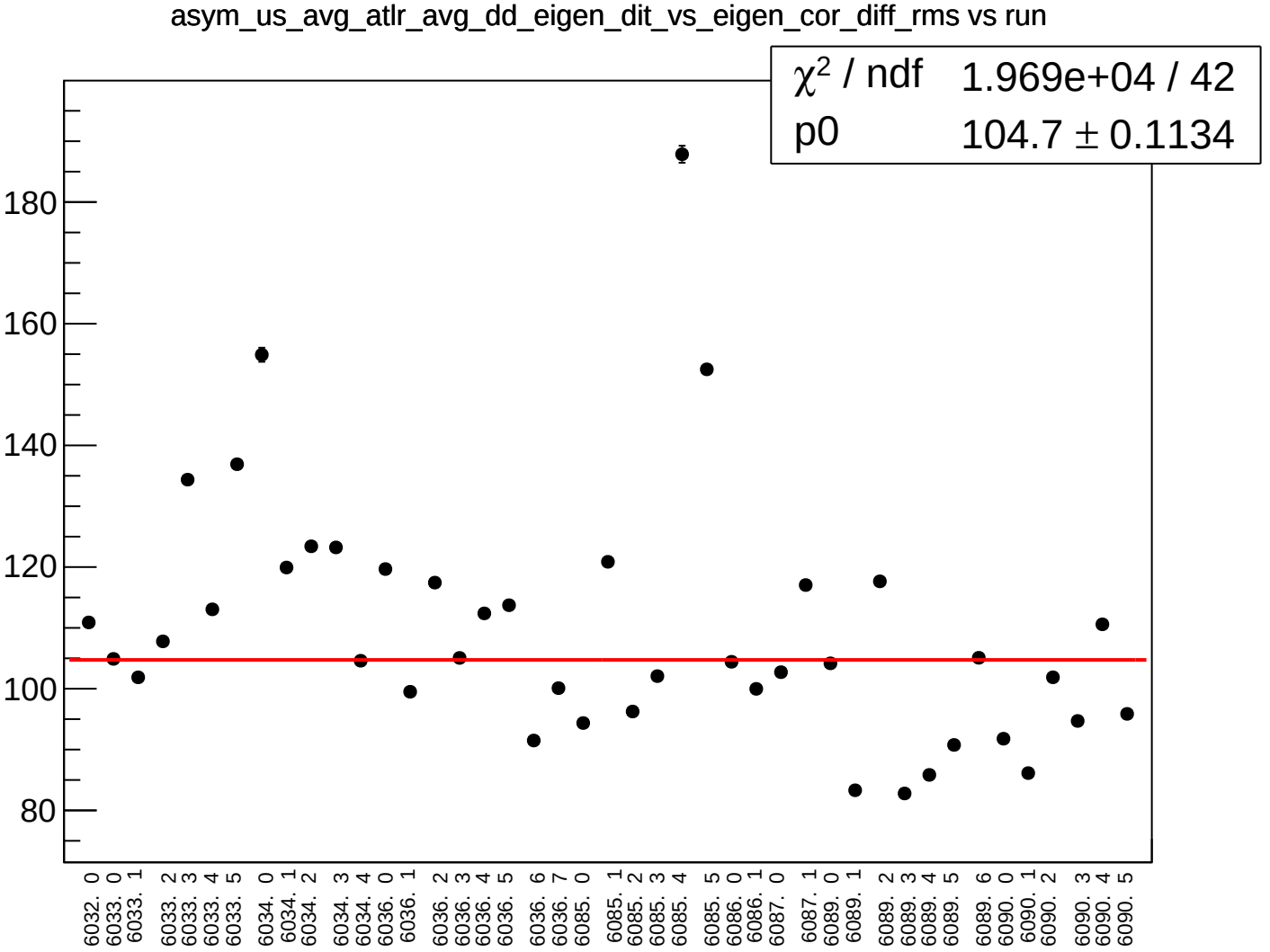

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.066e+05 / 42
p0 0.004462 ± 5.465e−06
0.014
0.012
0.01
0.008
0.006
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

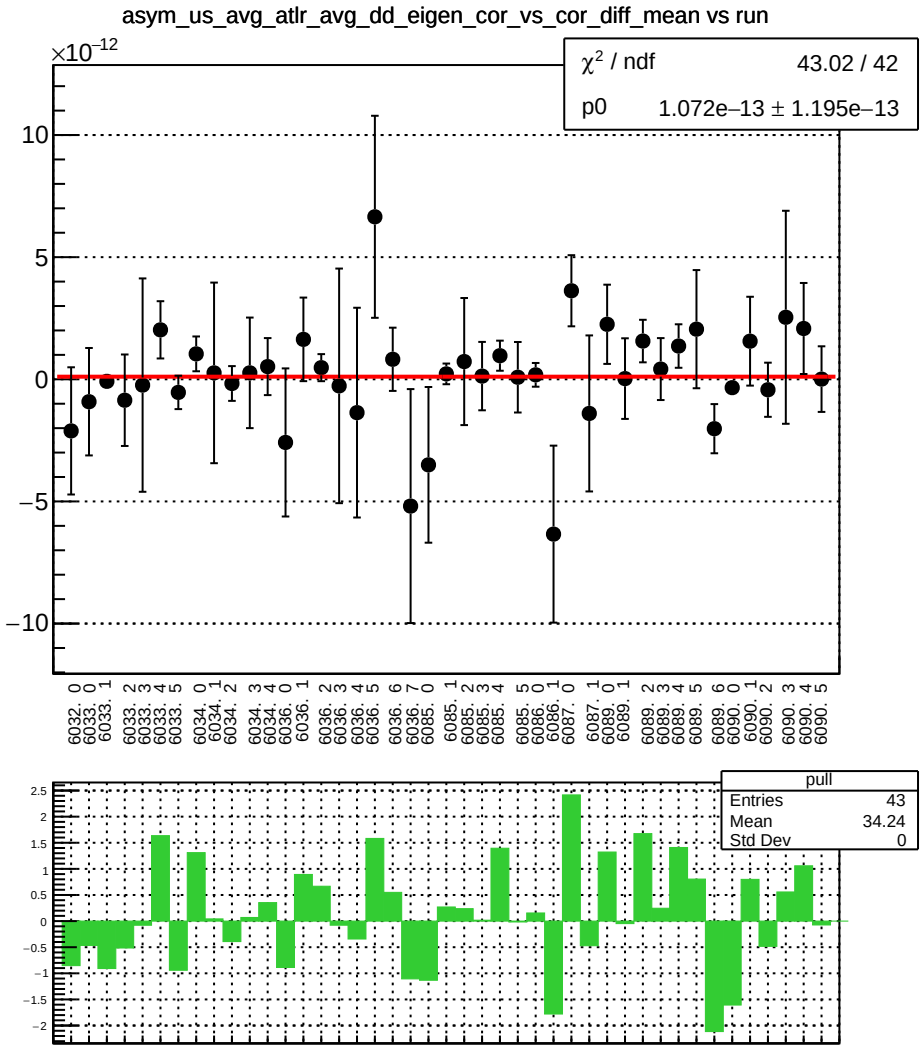

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.66 / 42
p0 0.2934 ± 0.1603
pull
Entries 43
Mean 119.4
Std Dev 0

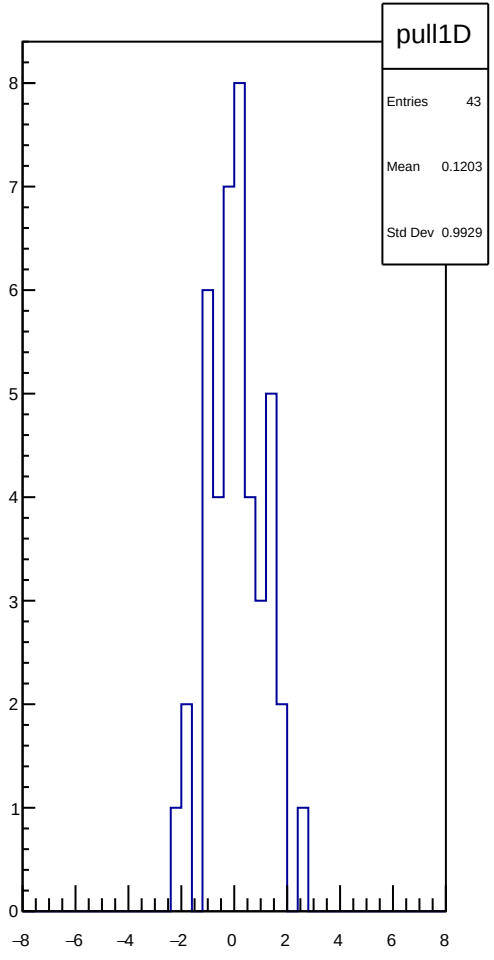

pull1D
Entries 43
Mean −0.01959
Std Dev 0.9105

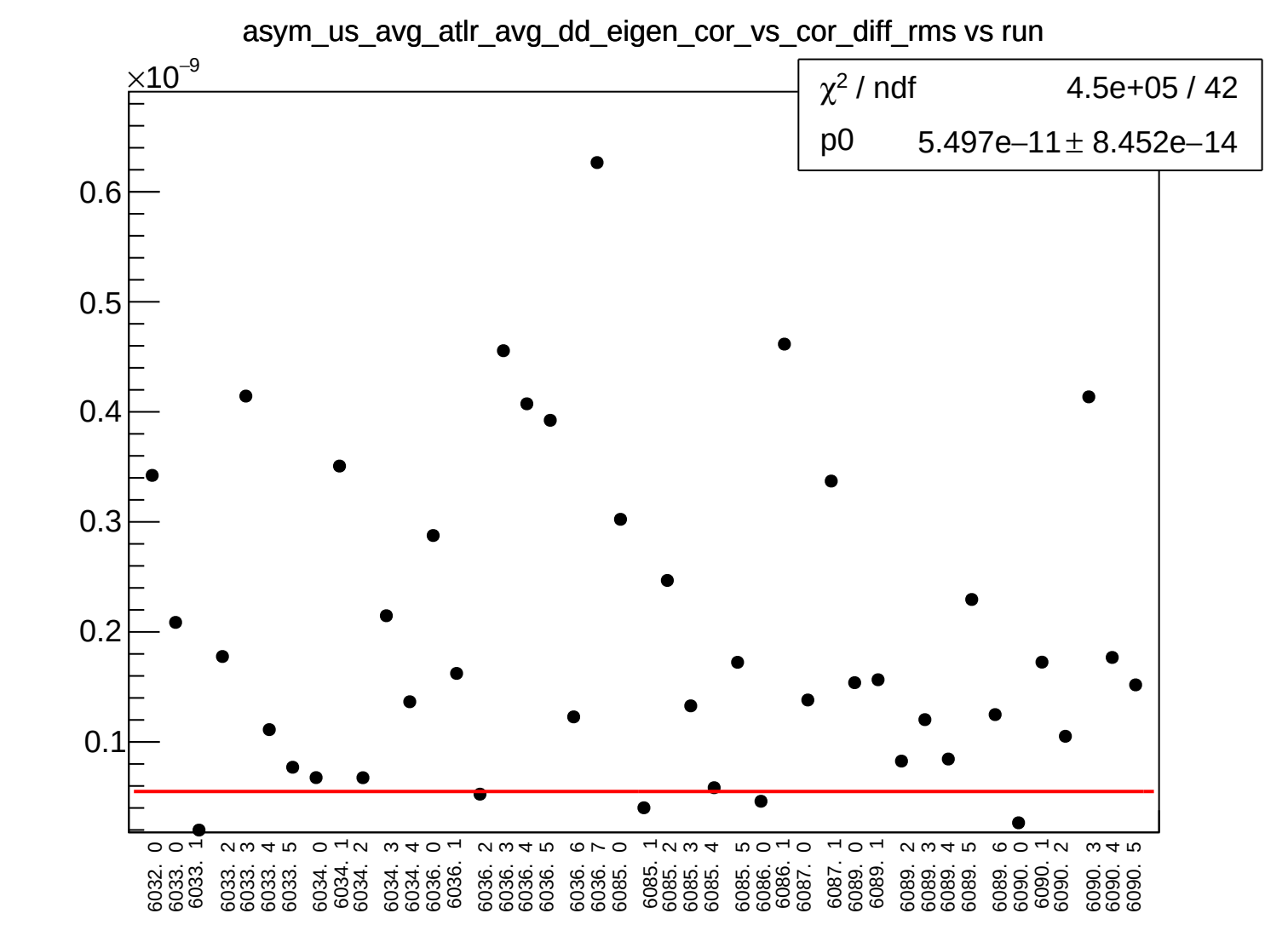

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.969e+04 / 42
p0 104.7 ± 0.1134
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

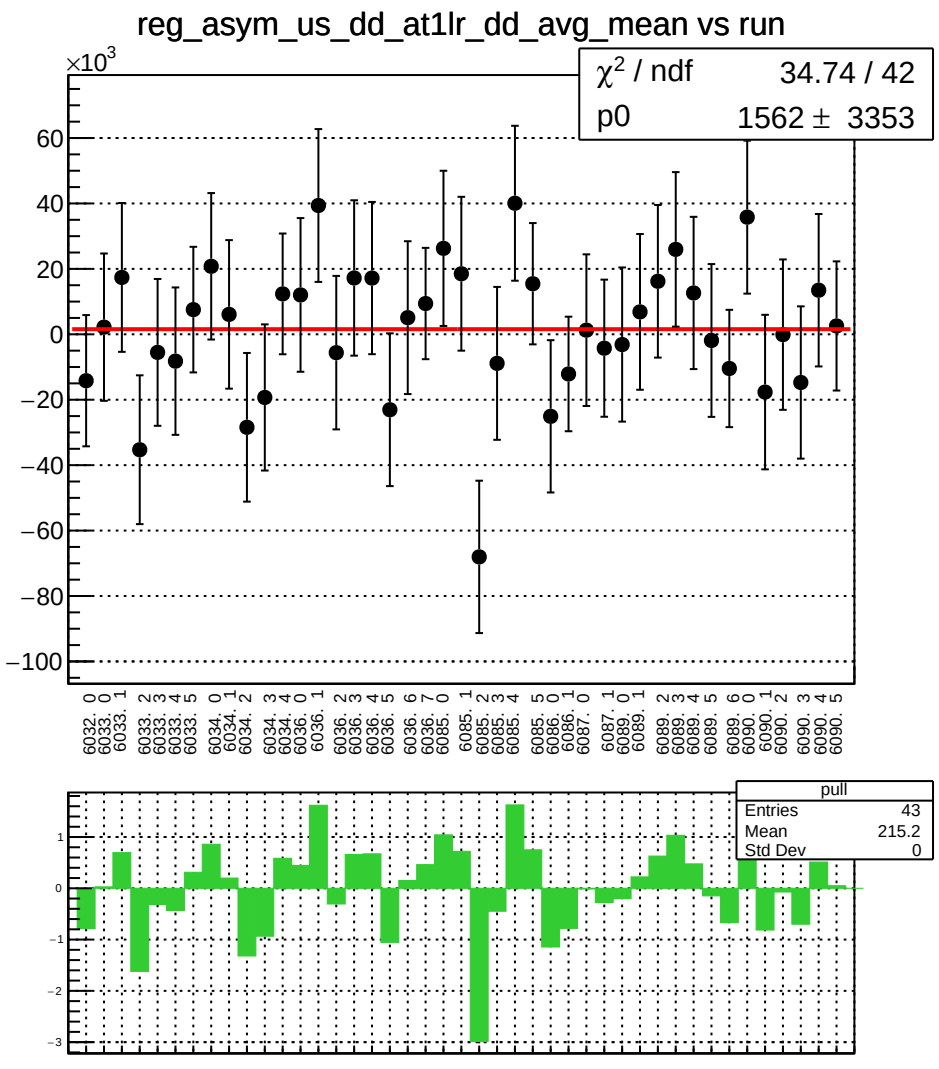

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.66 / 42
p0 0.2934 ± 0.1603
pull
Entries 43
Mean 119.4
Std Dev 0
pull1D
Entries 43
Mean −0.01959
Std Dev 0.9105

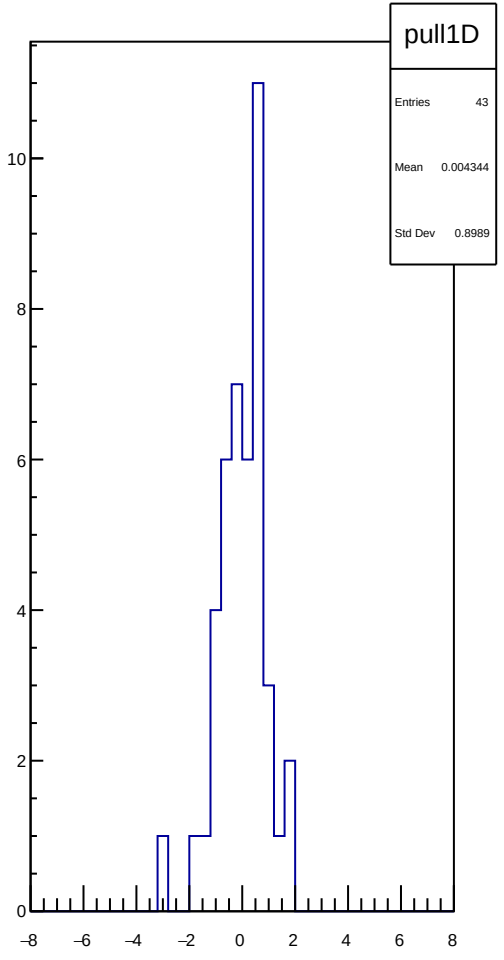

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.969e+04 / 42
p0 104.7 ± 0.1134
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

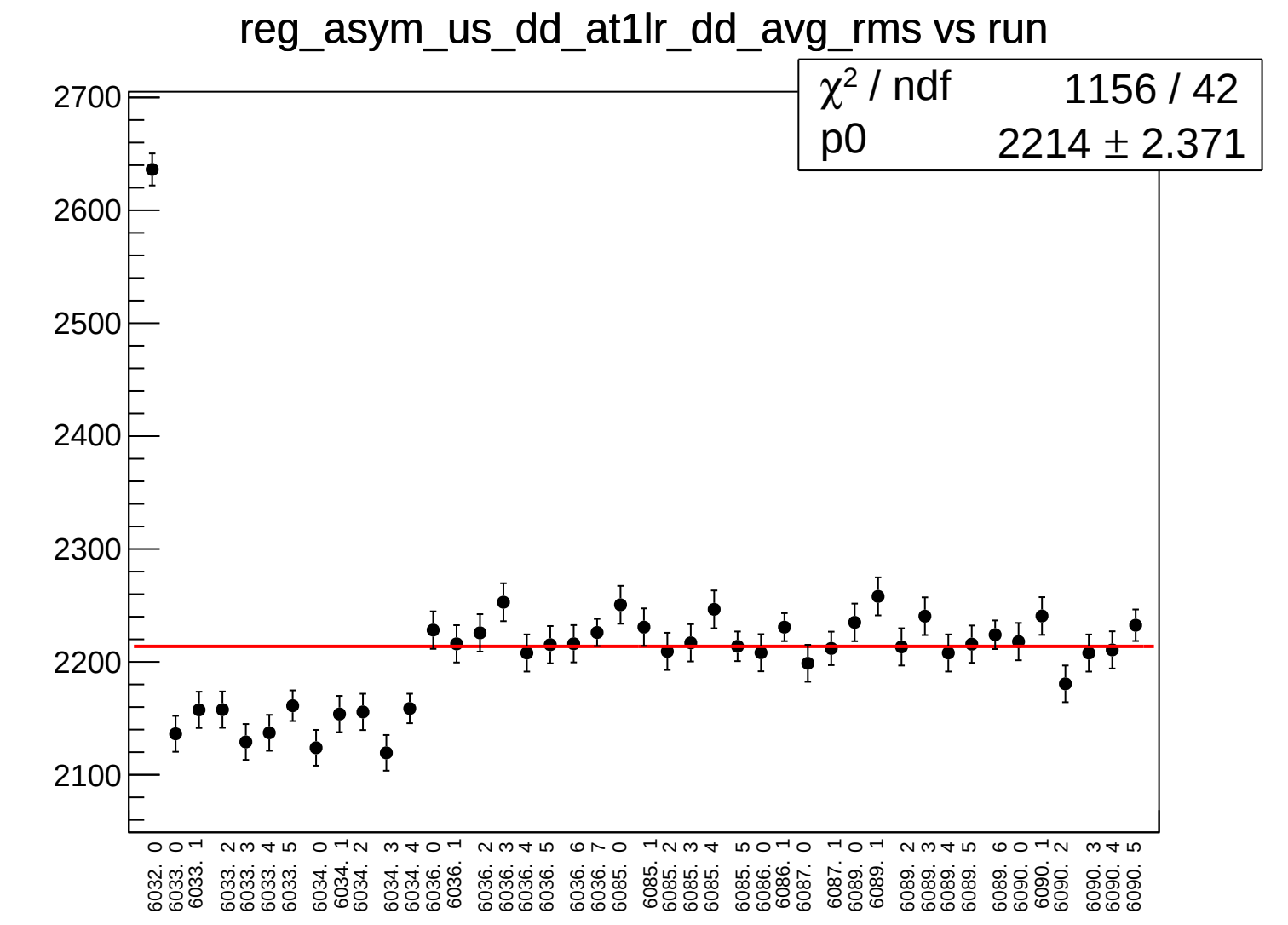

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.02 / 42
p0 1.072e−13 ± 1.195e−13
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 34.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

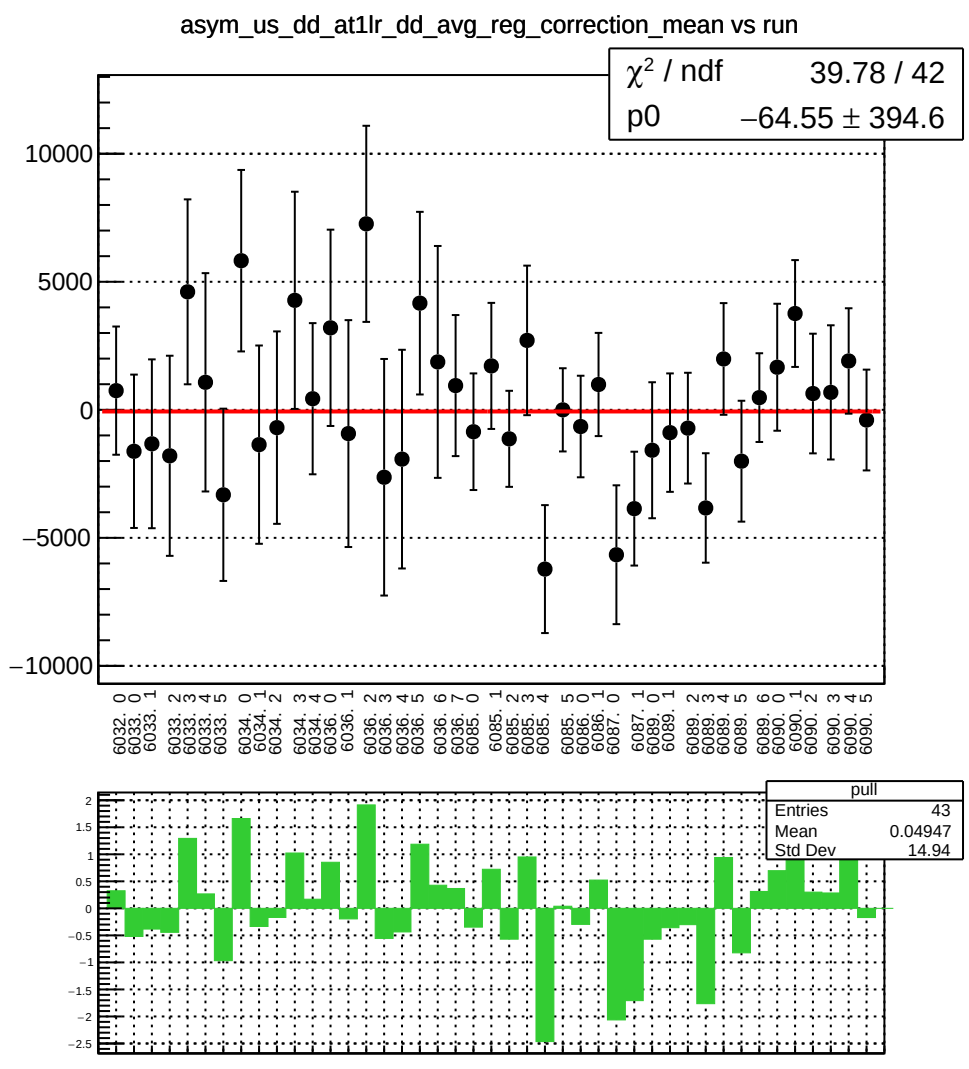

pull1D
Entries 43
Mean 0.1203
Std Dev 0.9929
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

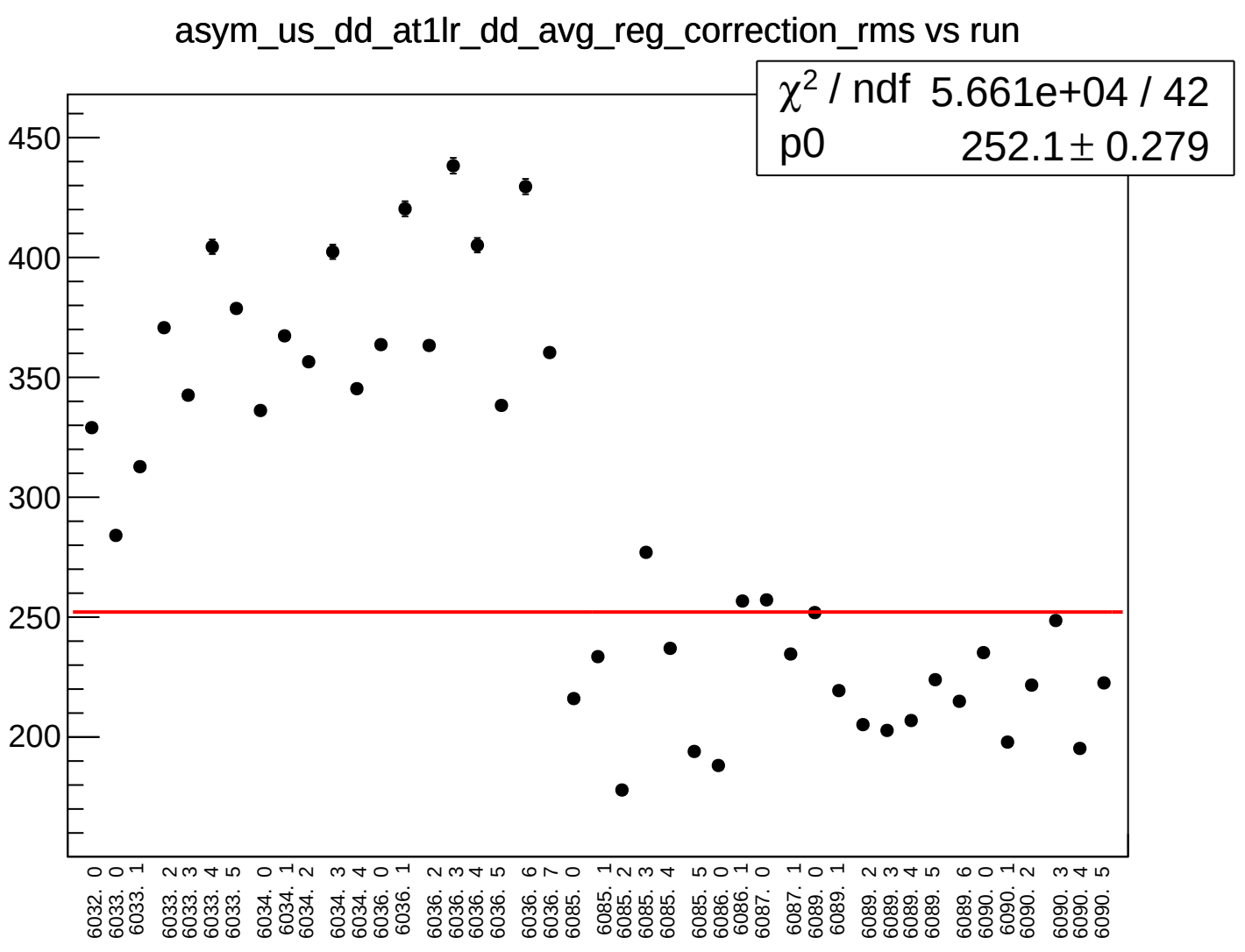

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.5e+05 / 42
p0 5.497e−11 ± 8.452e−14
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

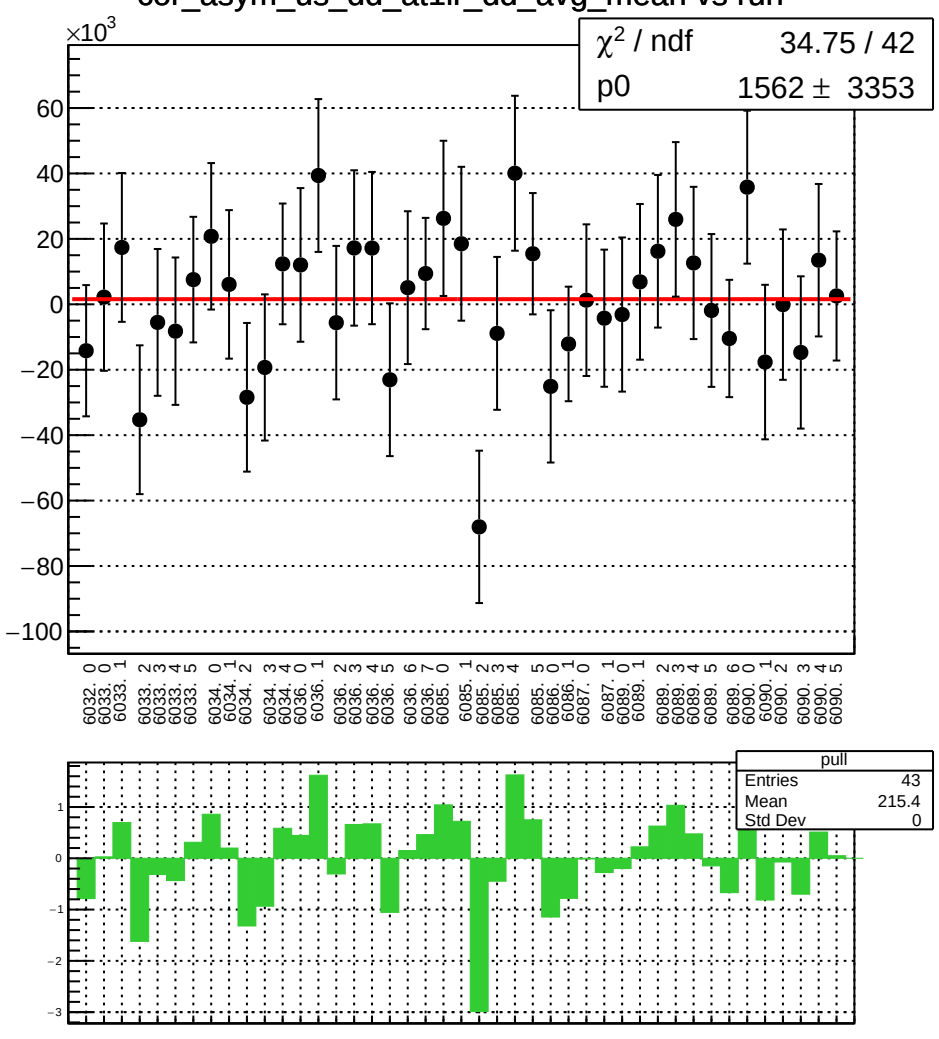

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 34.74 / 42
p0 1562 ± 3353
pull
Entries 43
Mean 215.2
Std Dev 0

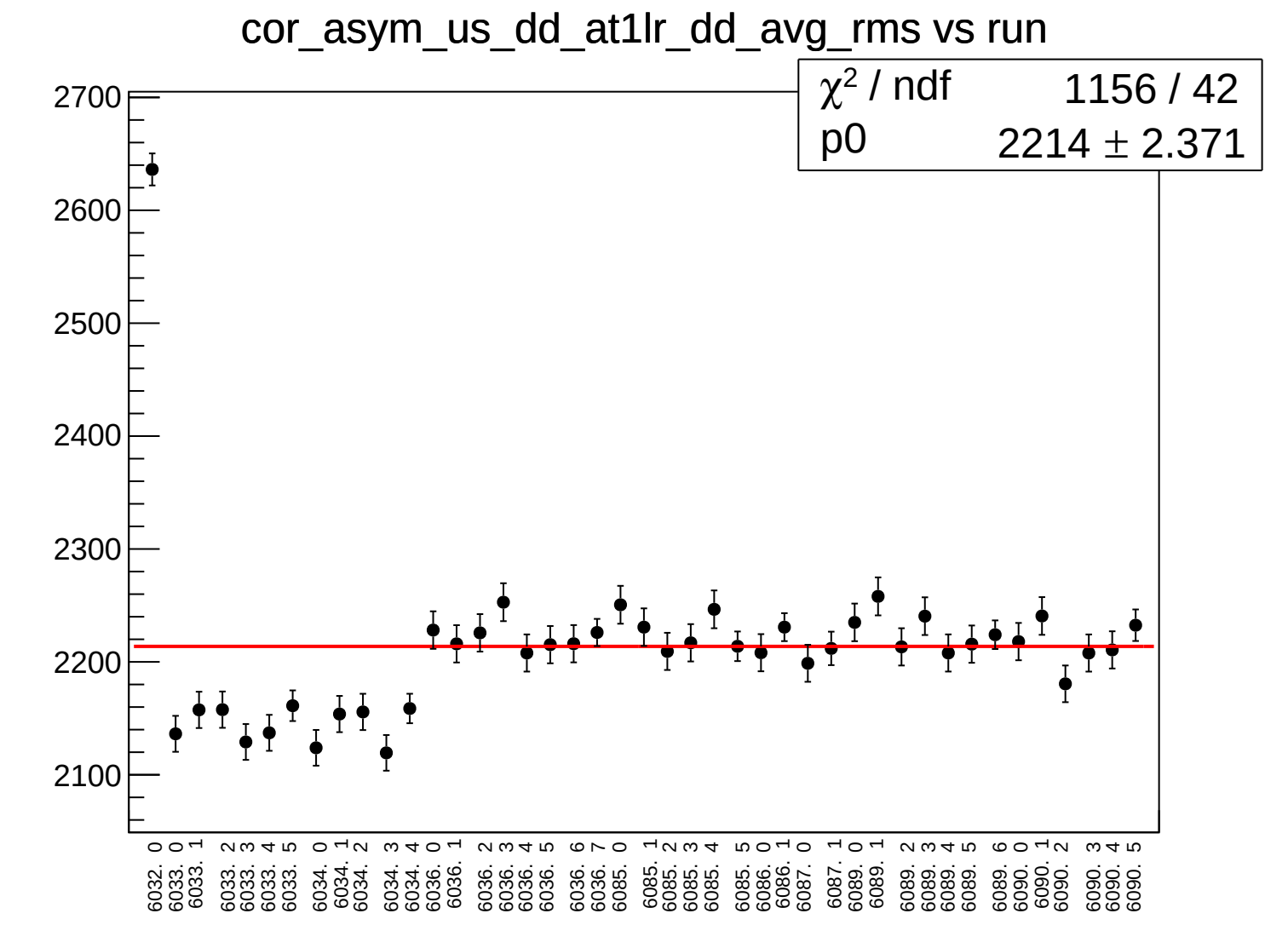

pull1D
Entries 43
Mean 0.004344
Std Dev 0.8989

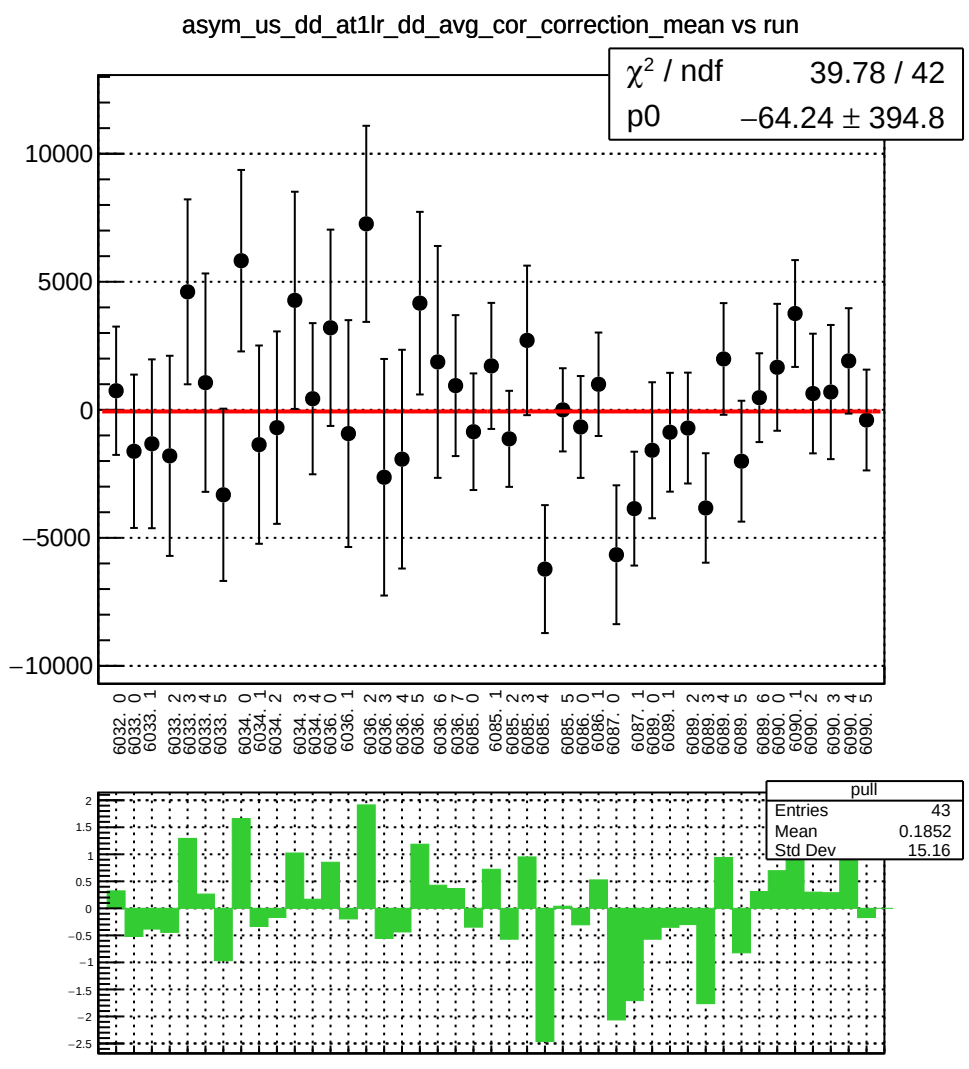

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1156 / 42
p0 2214 ± 2.371
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

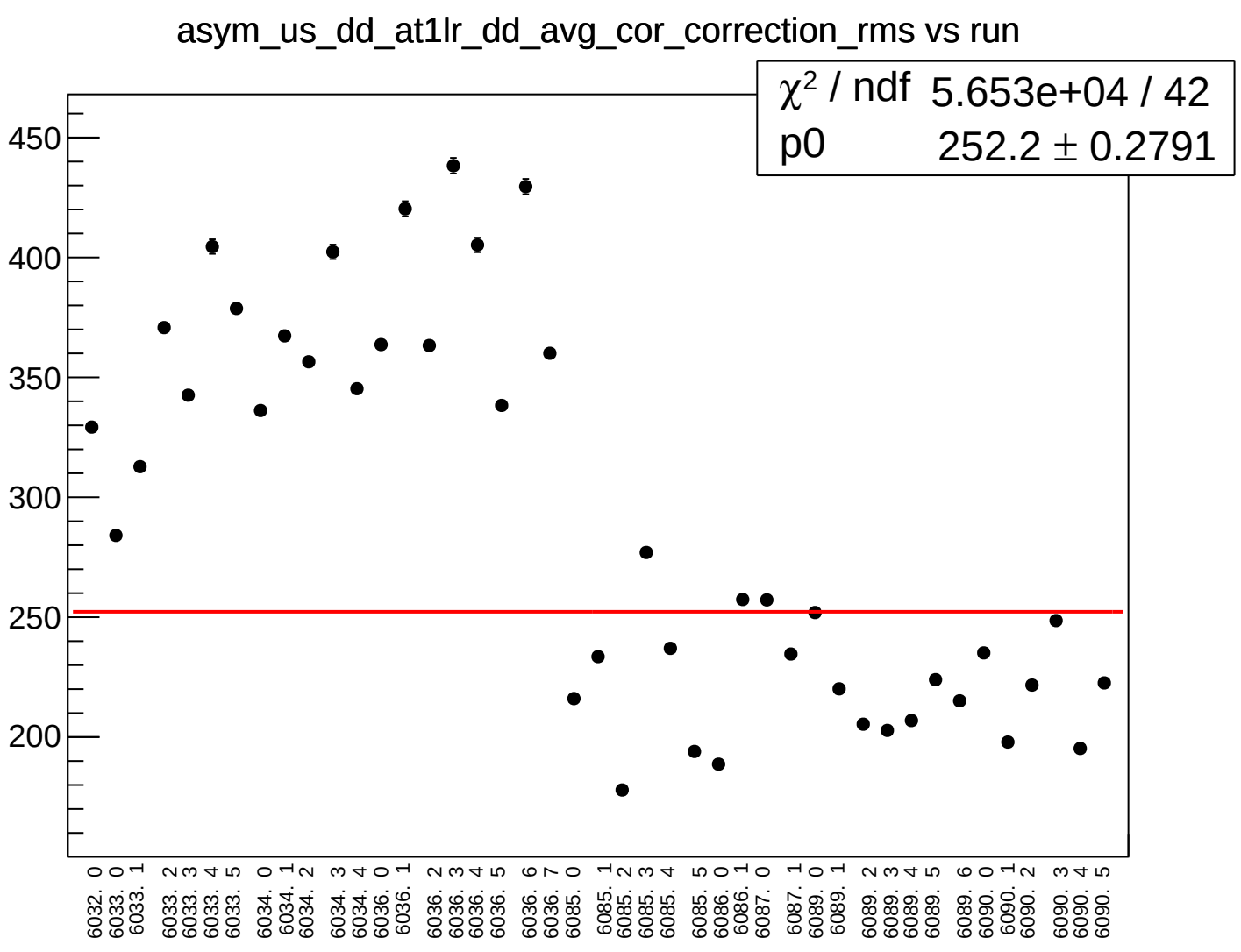

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 39.78 / 42
p0 −64.55 ± 394.6
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.04947
Std Dev 14.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03752
Std Dev 0.9611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

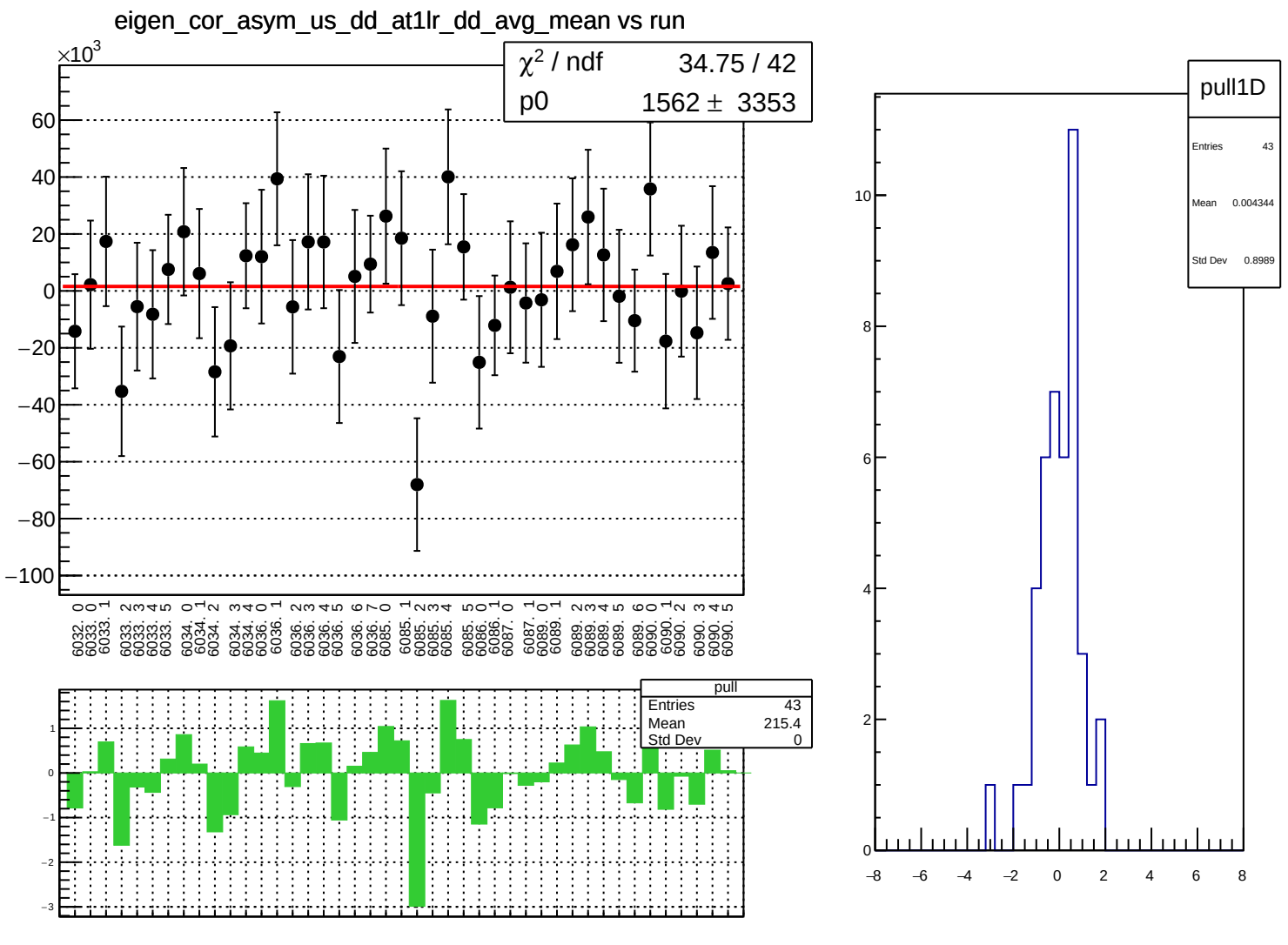

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 5.661e+04 / 42
p0 252.1 ± 0.279
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

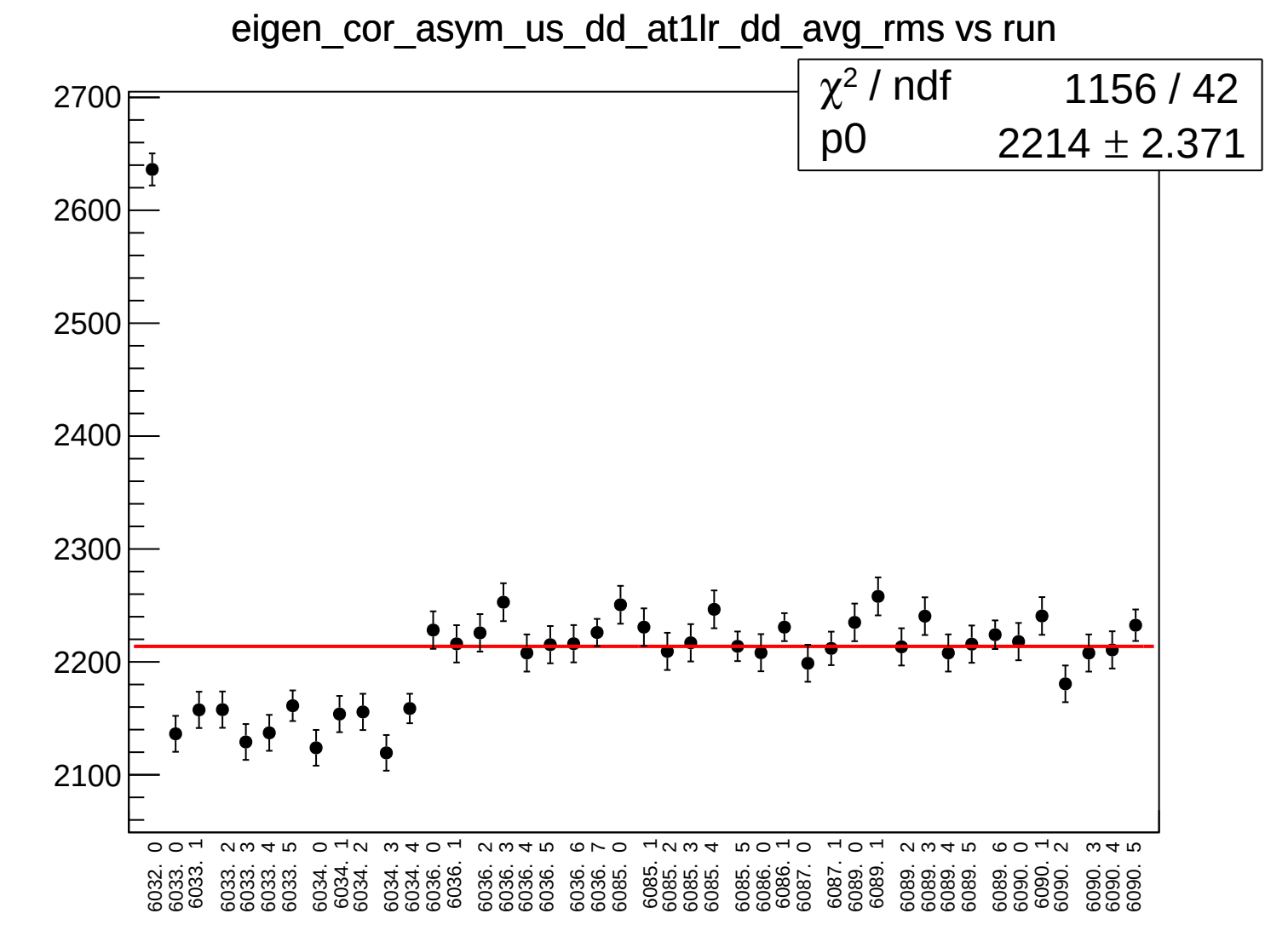

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 34.75 / 42
p0 1562 ± 3353
pull
Entries 43
Mean 215.4
Std Dev 0
pull1D
Entries 43
Mean 0.004344
Std Dev 0.8989

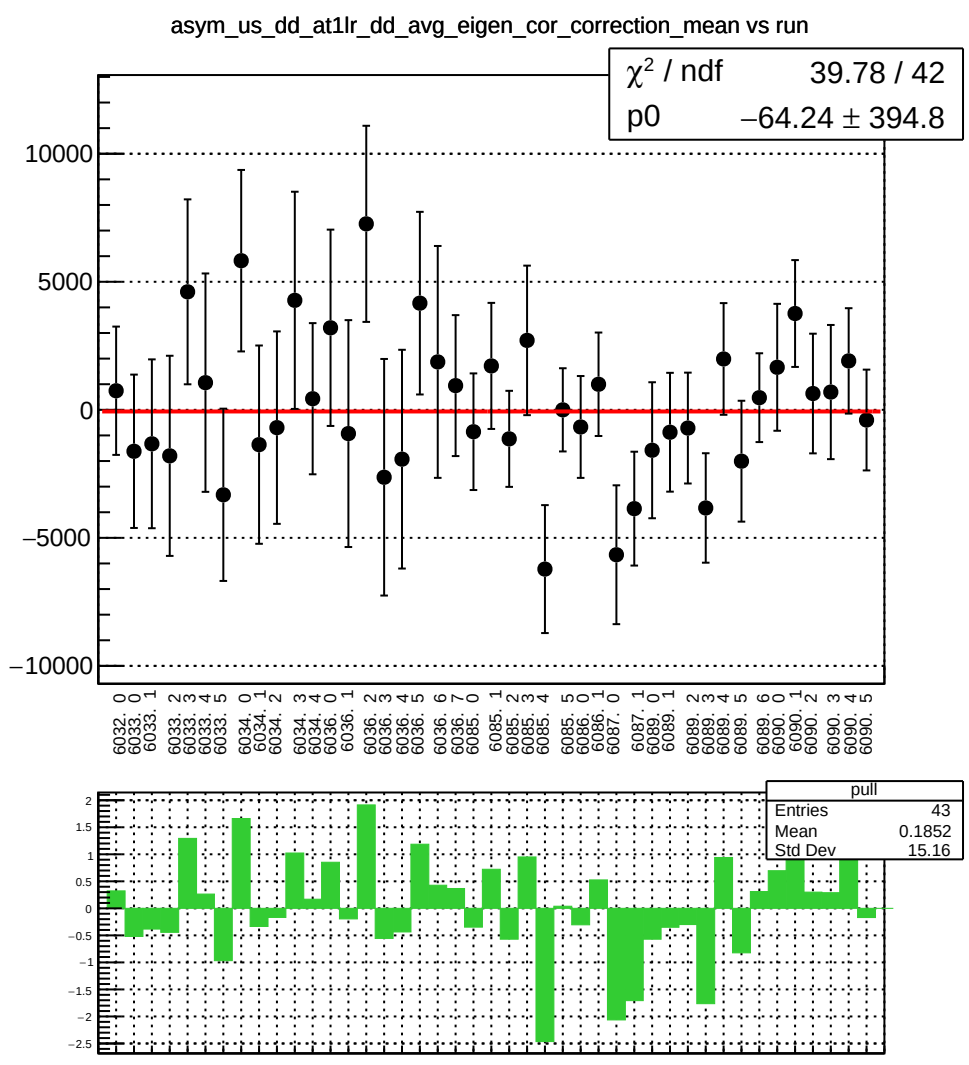

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1156 / 42
p0 2214 ± 2.371
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

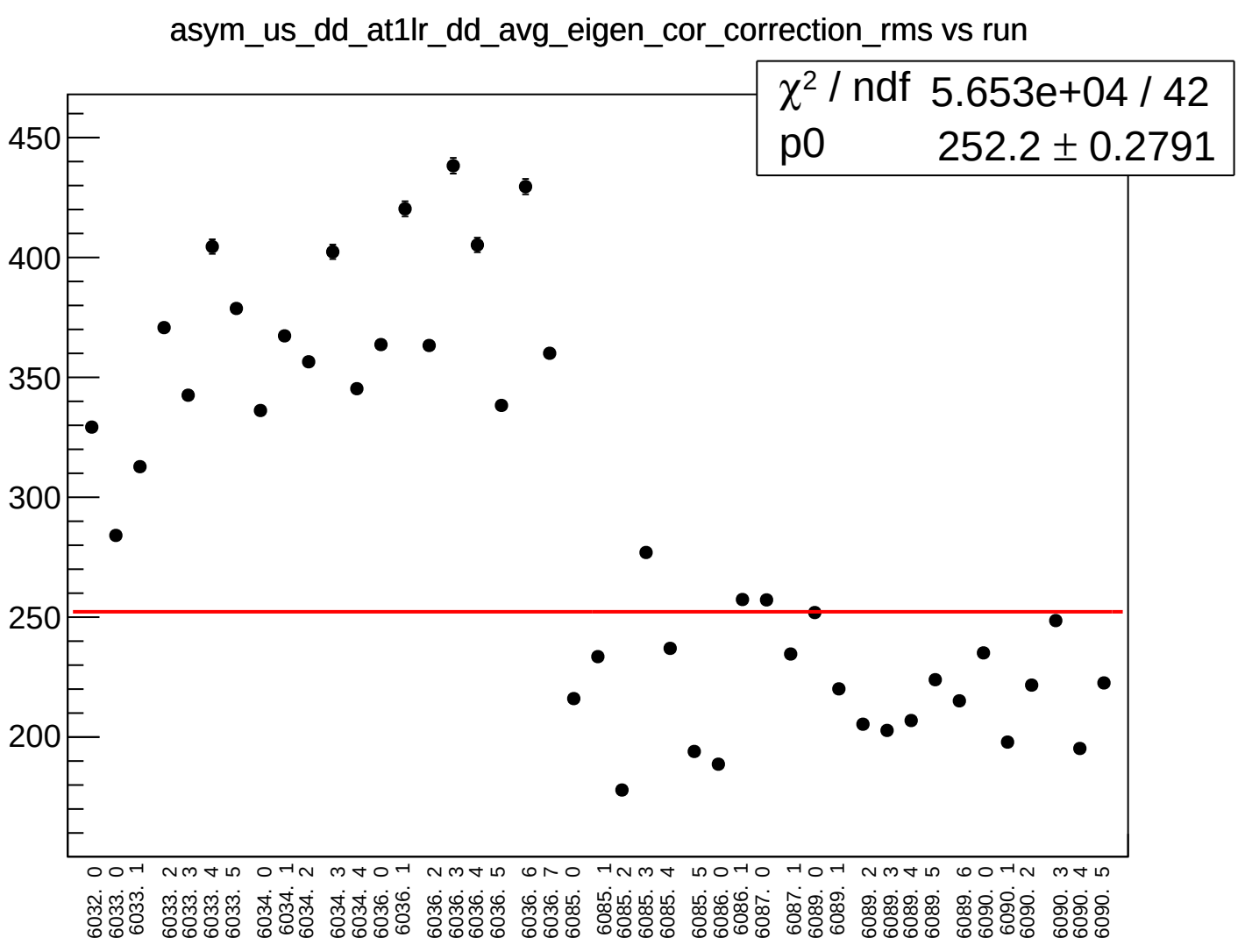

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 39.78 / 42
p0 −64.24 ± 394.8
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.1852
Std Dev 15.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03748
Std Dev 0.9611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

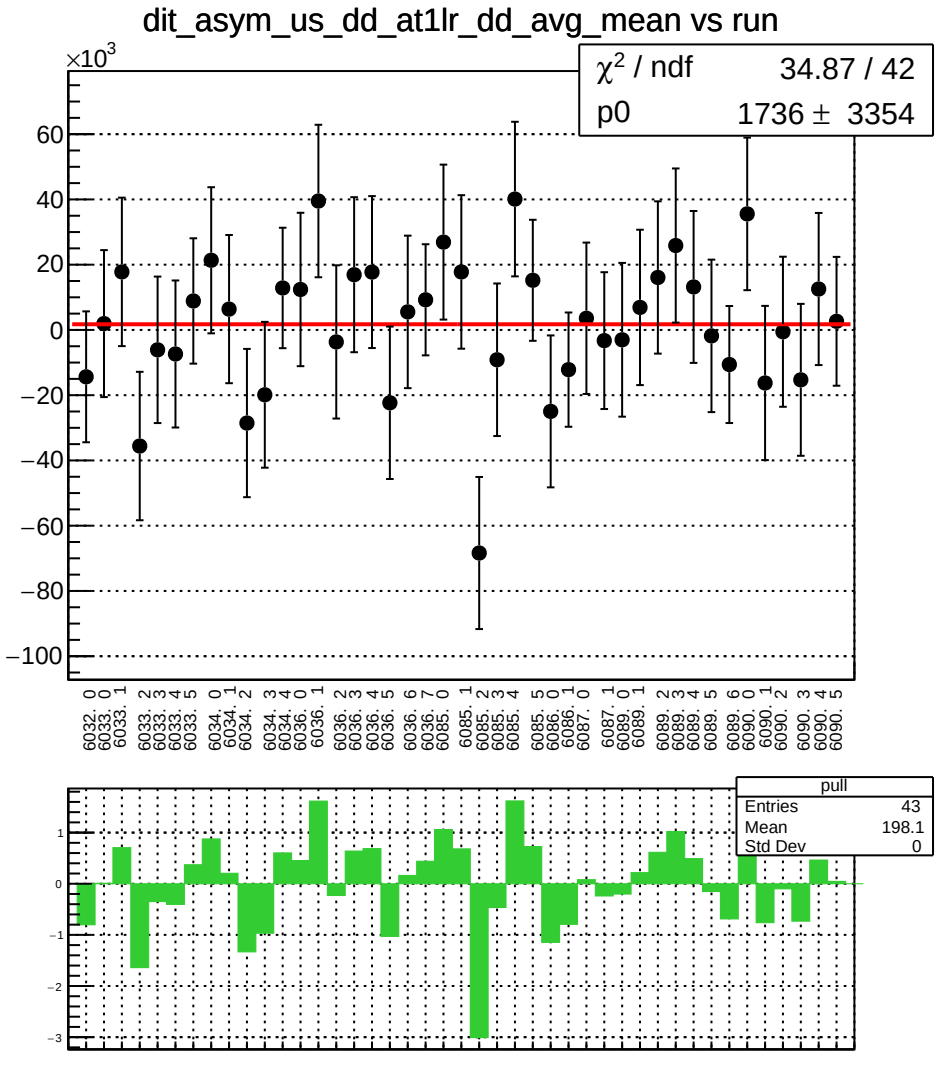

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.653e+04 / 42
p0 252.2 ± 0.2791
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

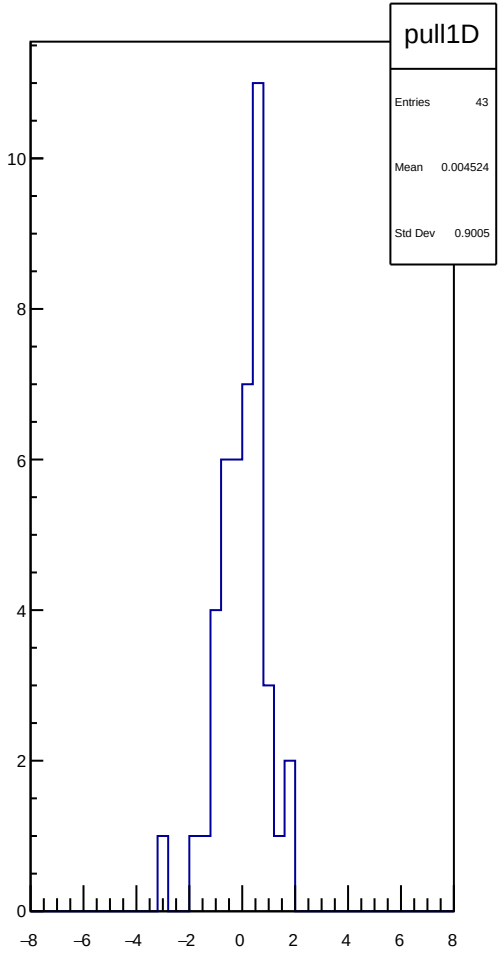

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 34.75 / 42
p0 1562 ± 3353
pull
Entries 43
Mean 215.4
Std Dev 0
pull1D
Entries 43
Mean 0.004344
Std Dev 0.8989

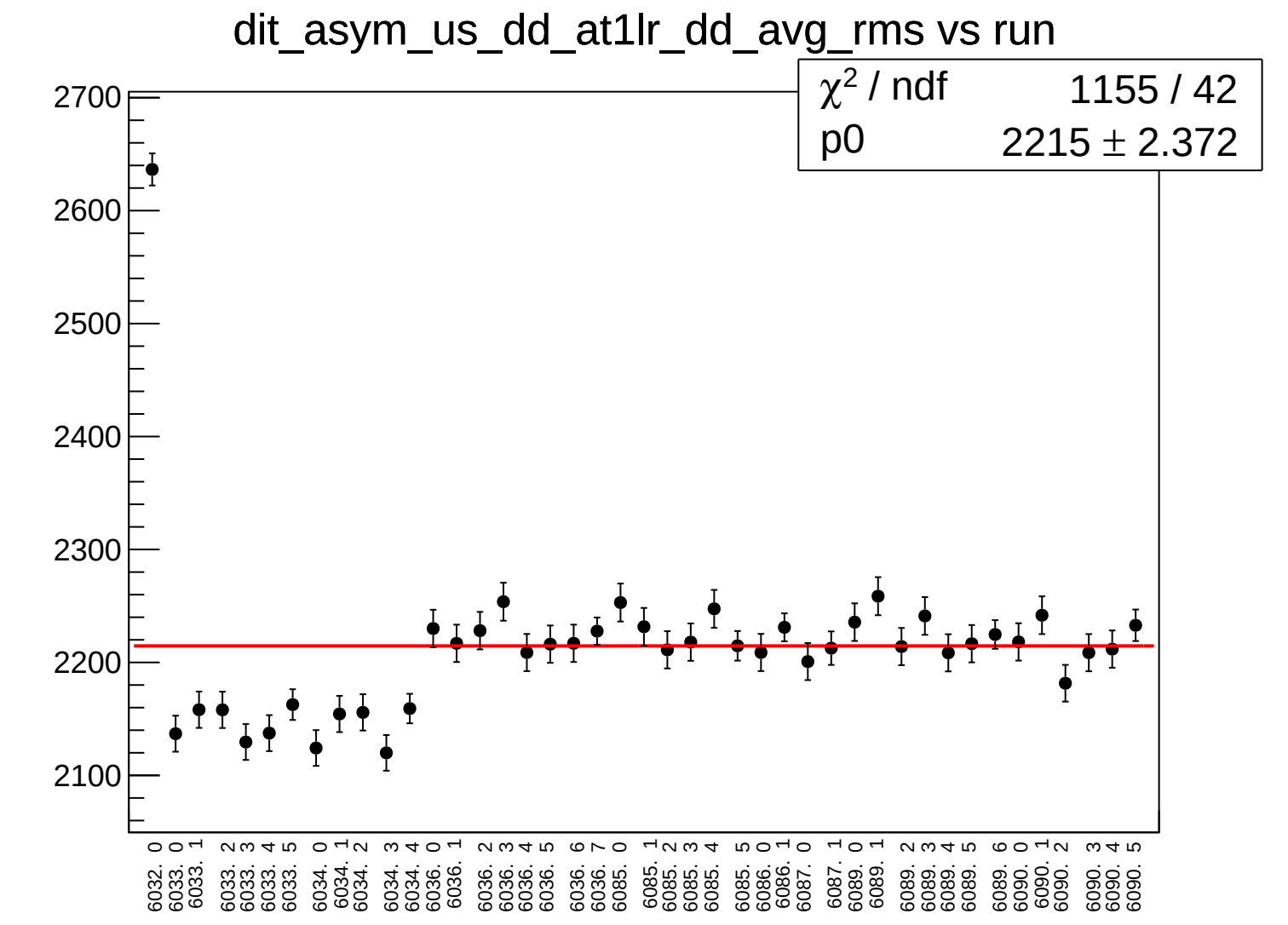

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1156 / 42
p0 2214 ± 2.371
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

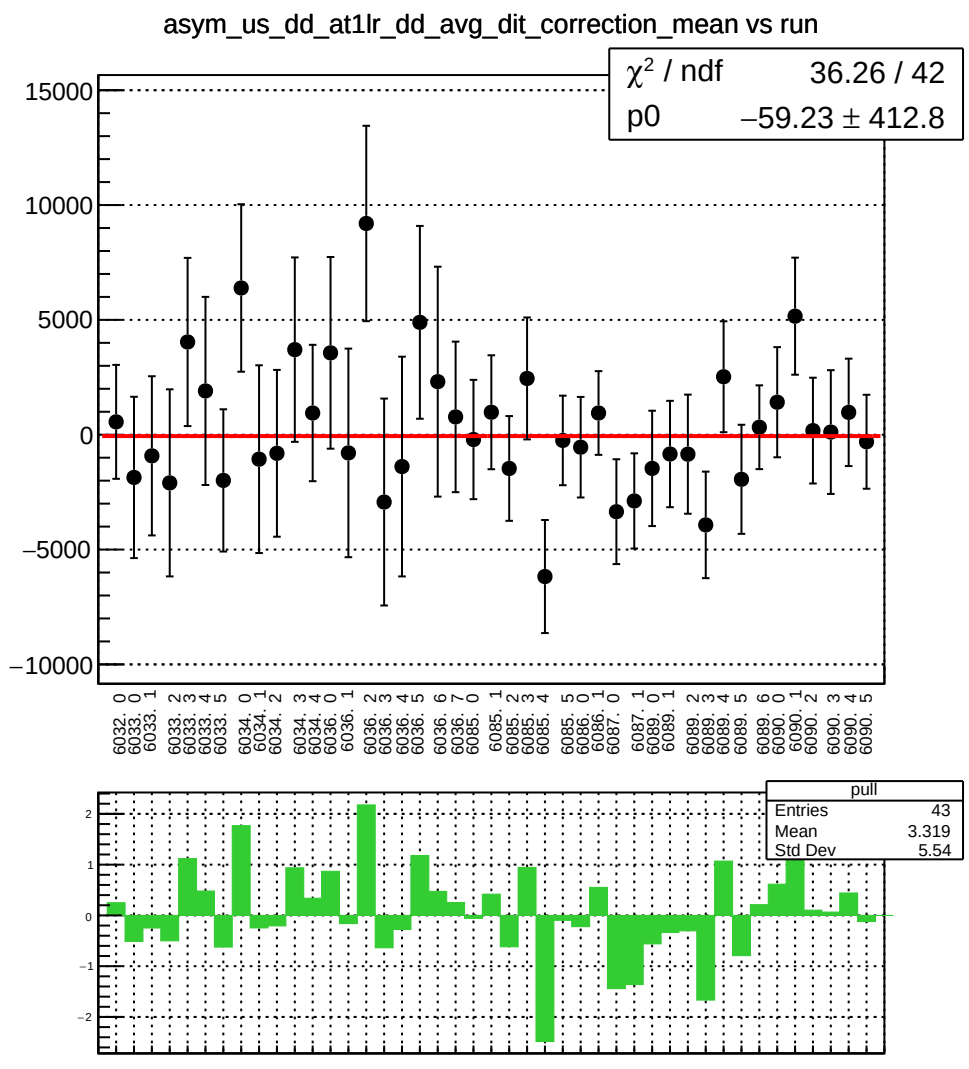

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.78 / 42
p0 −64.24 ± 394.8
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.1852
Std Dev 15.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03748
Std Dev 0.9611
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

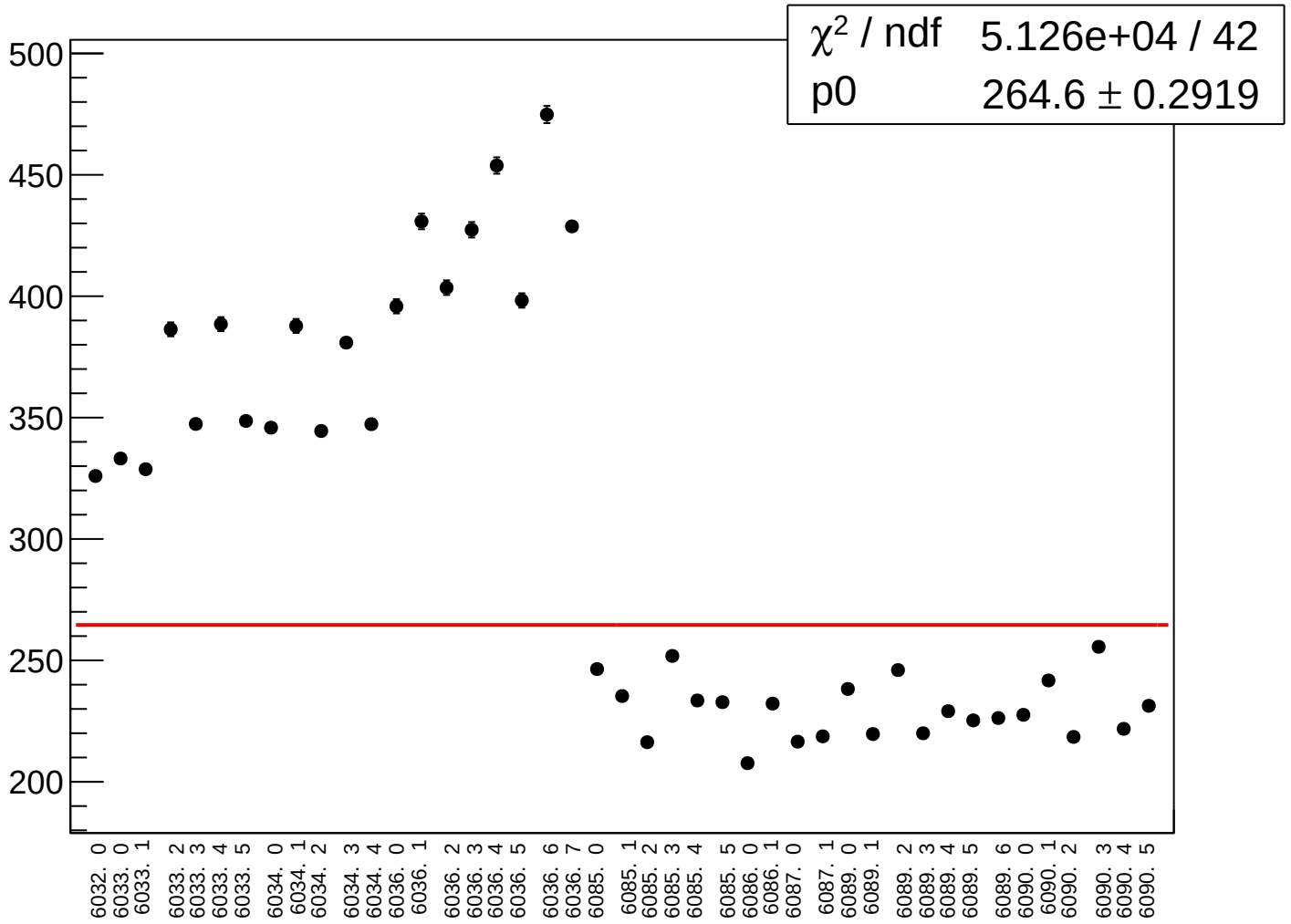

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.653e+04 / 42
p0 252.2 ± 0.2791
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

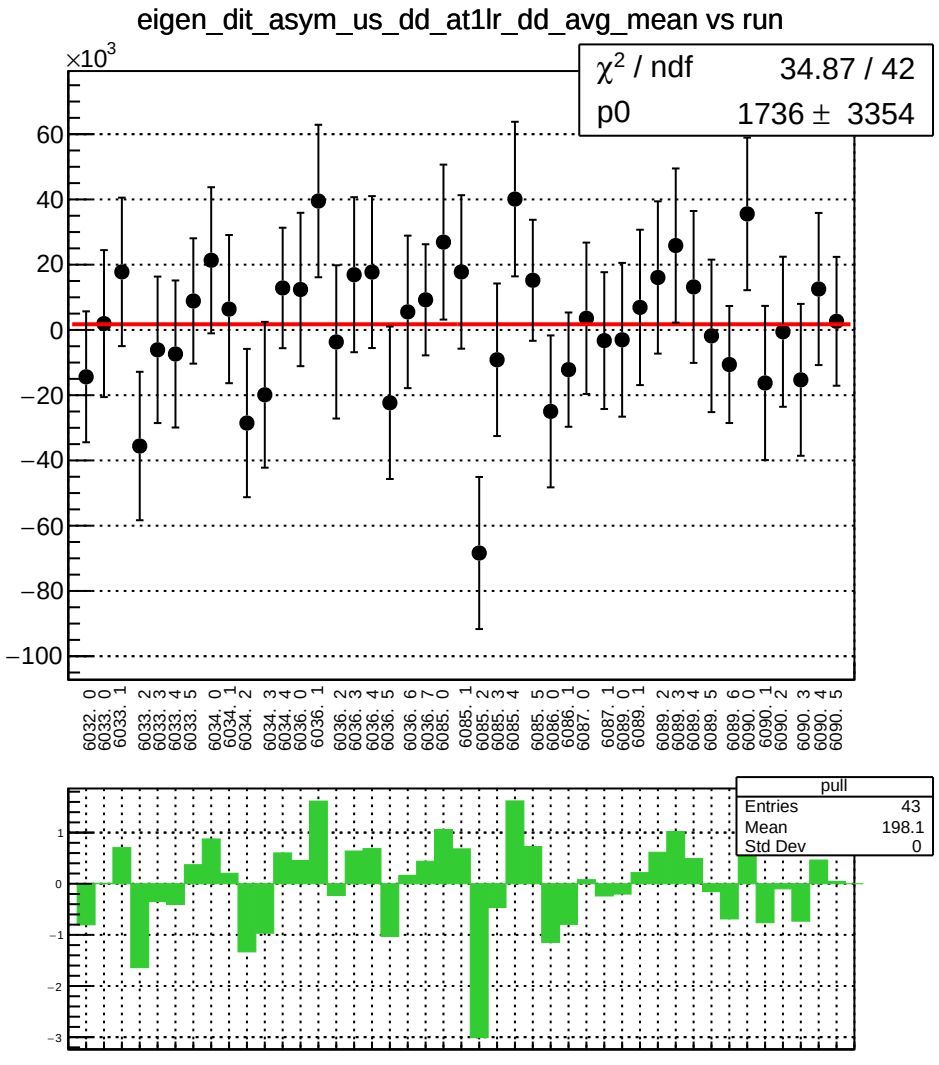

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 34.87 / 42
p0 1736 ± 3354
pull
Entries 43
Mean 198.1
Std Dev 0

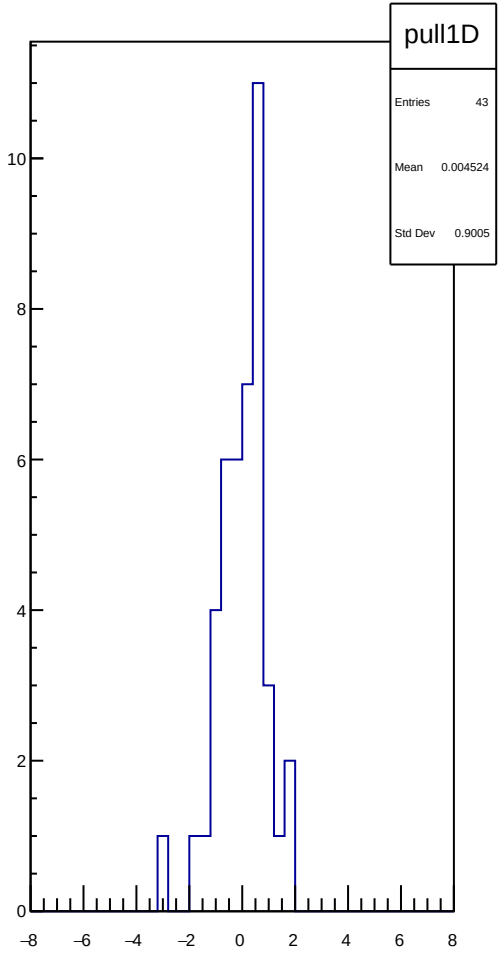

pull1D
Entries 43
Mean 0.004524
Std Dev 0.9005

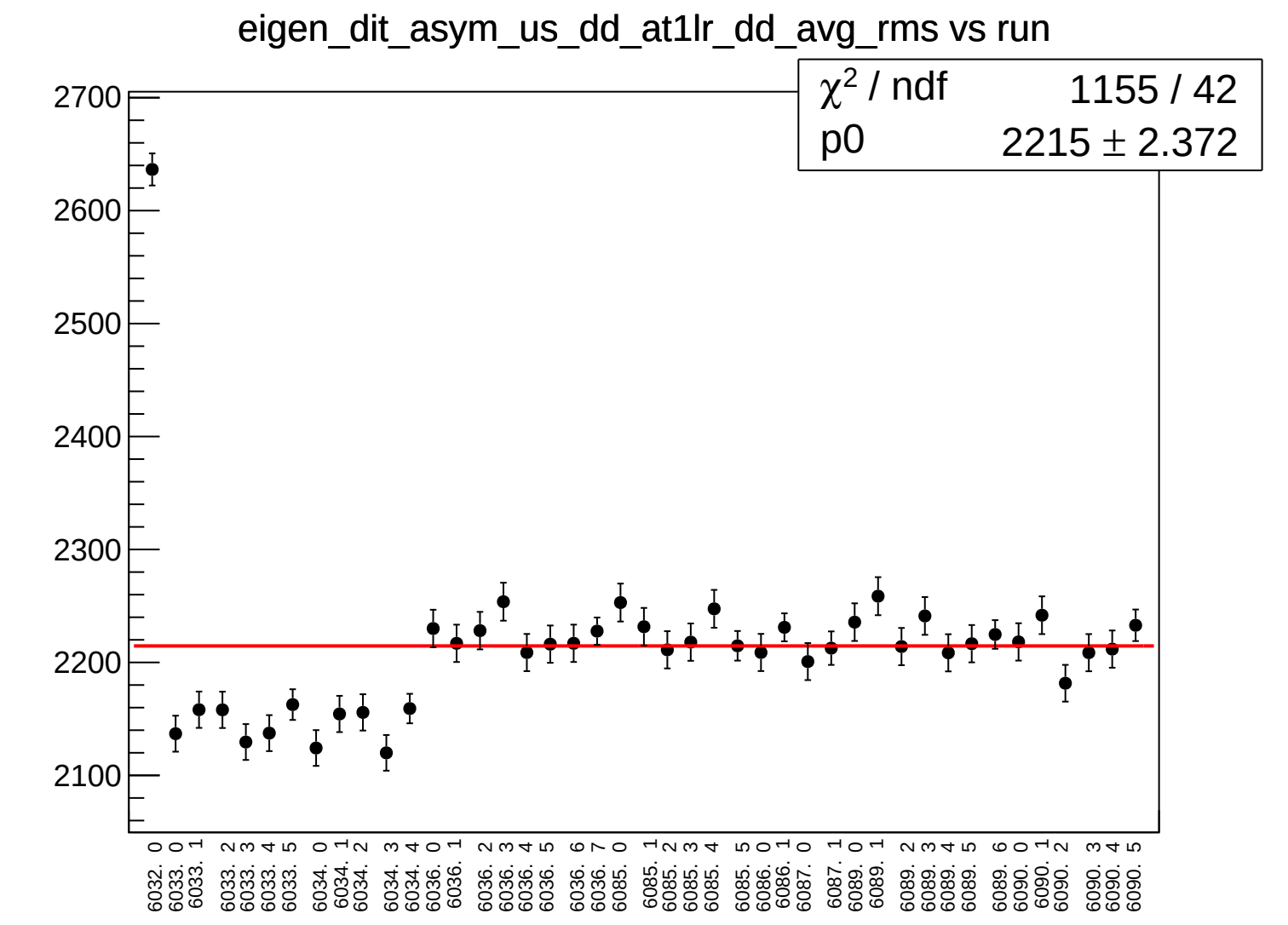

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1155 / 42
p0 2215 ± 2.372
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

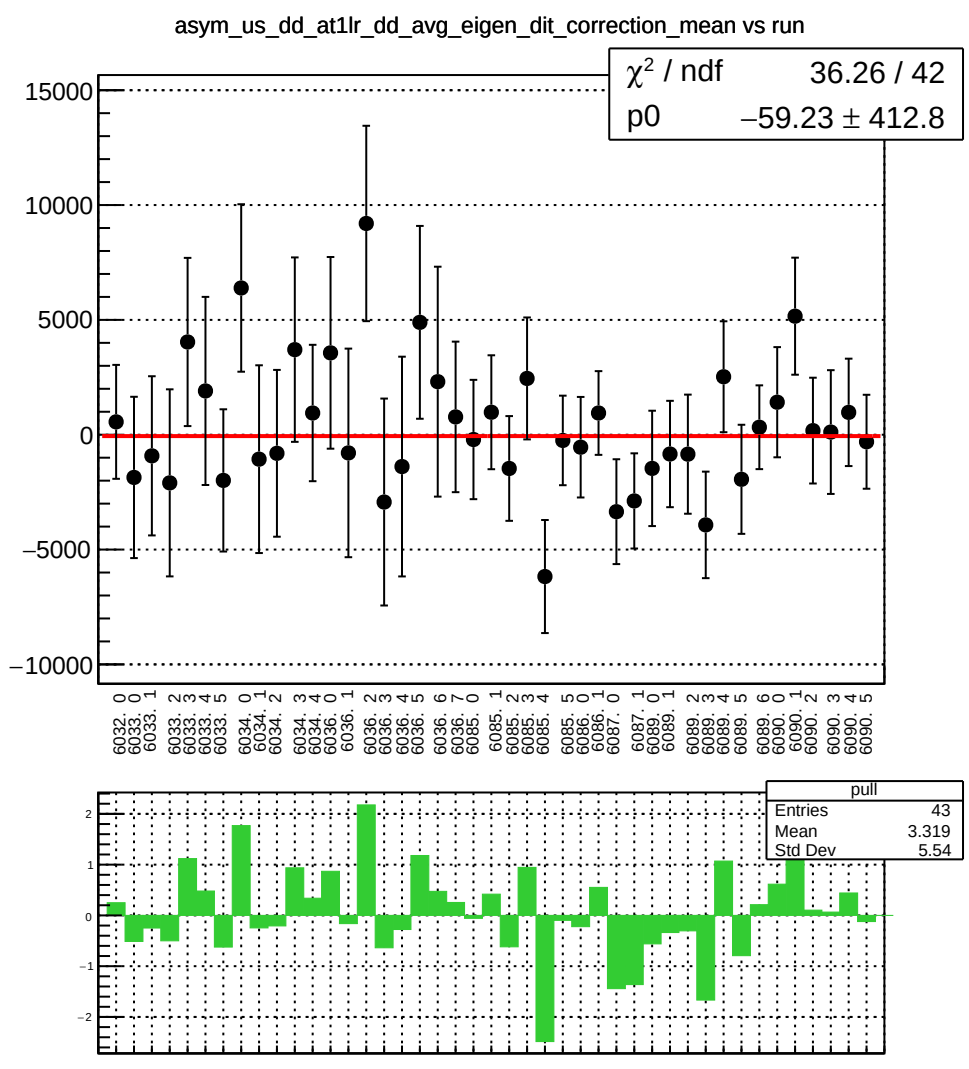

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 36.26 / 42
p0 −59.23 ± 412.8
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.319
Std Dev 5.54
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.06605
Std Dev 0.9159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

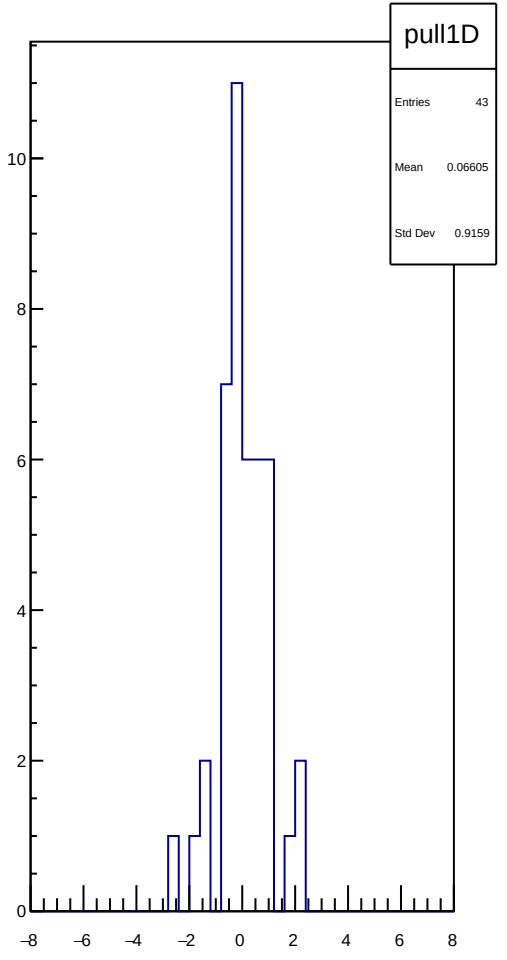

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.126e+04 / 42
p0 264.6 ± 0.2919
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

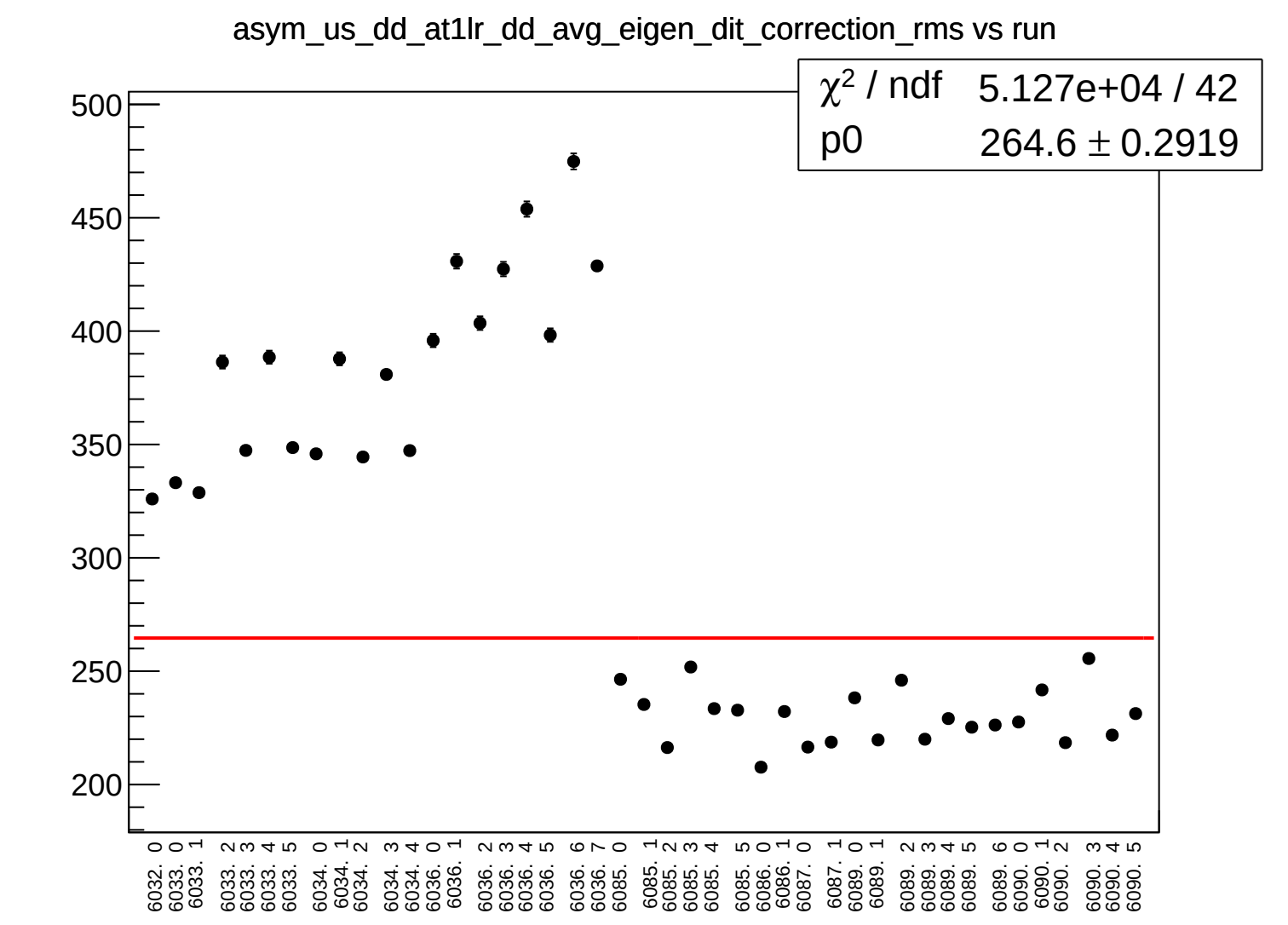

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 34.87 / 42
p0 1736 ± 3354
pull
Entries 43
Mean 198.1
Std Dev 0

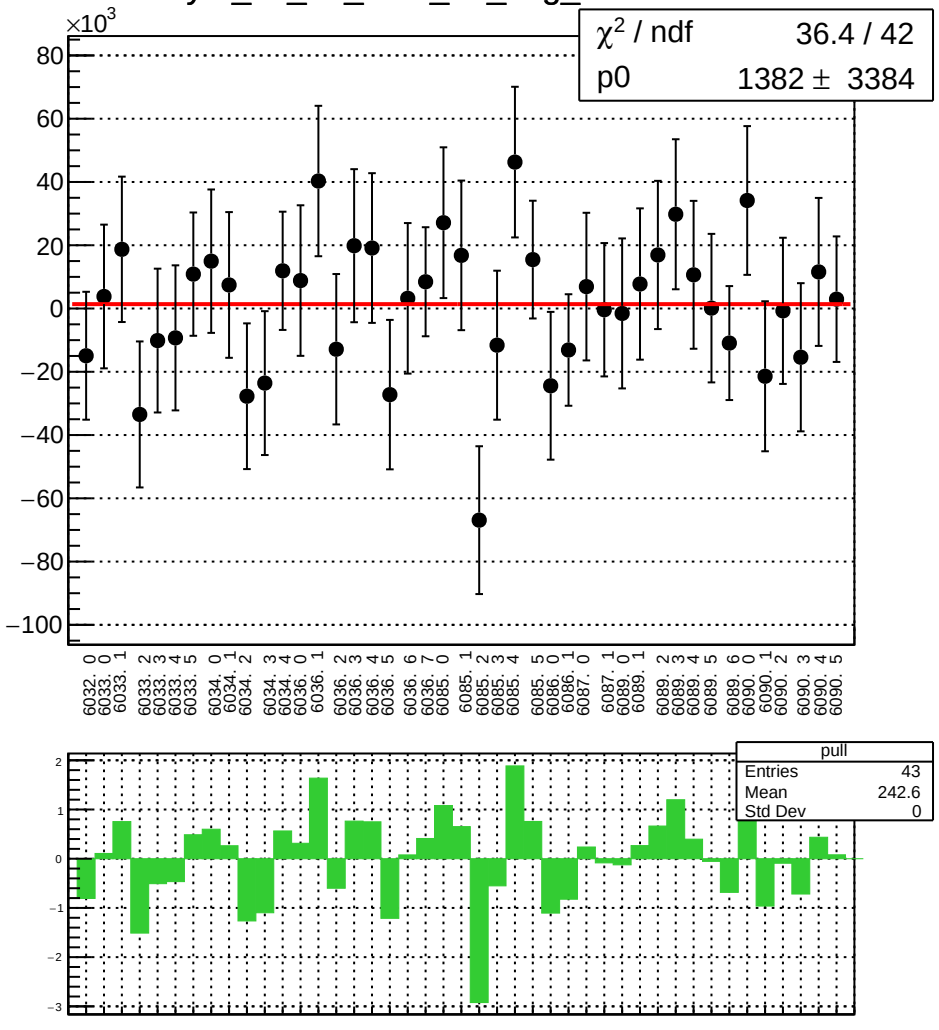

pull1D
Entries 43
Mean 0.004524
Std Dev 0.9005

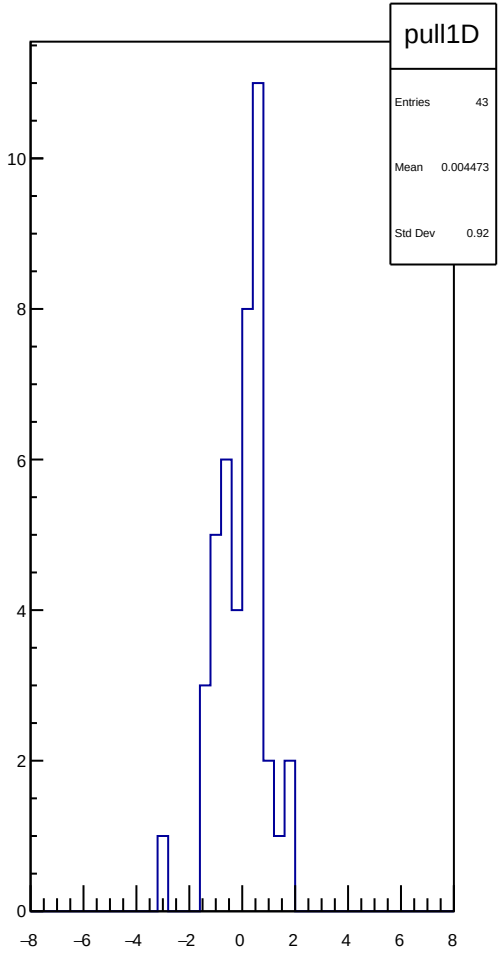

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1155 / 42
p0 2215 ± 2.372
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

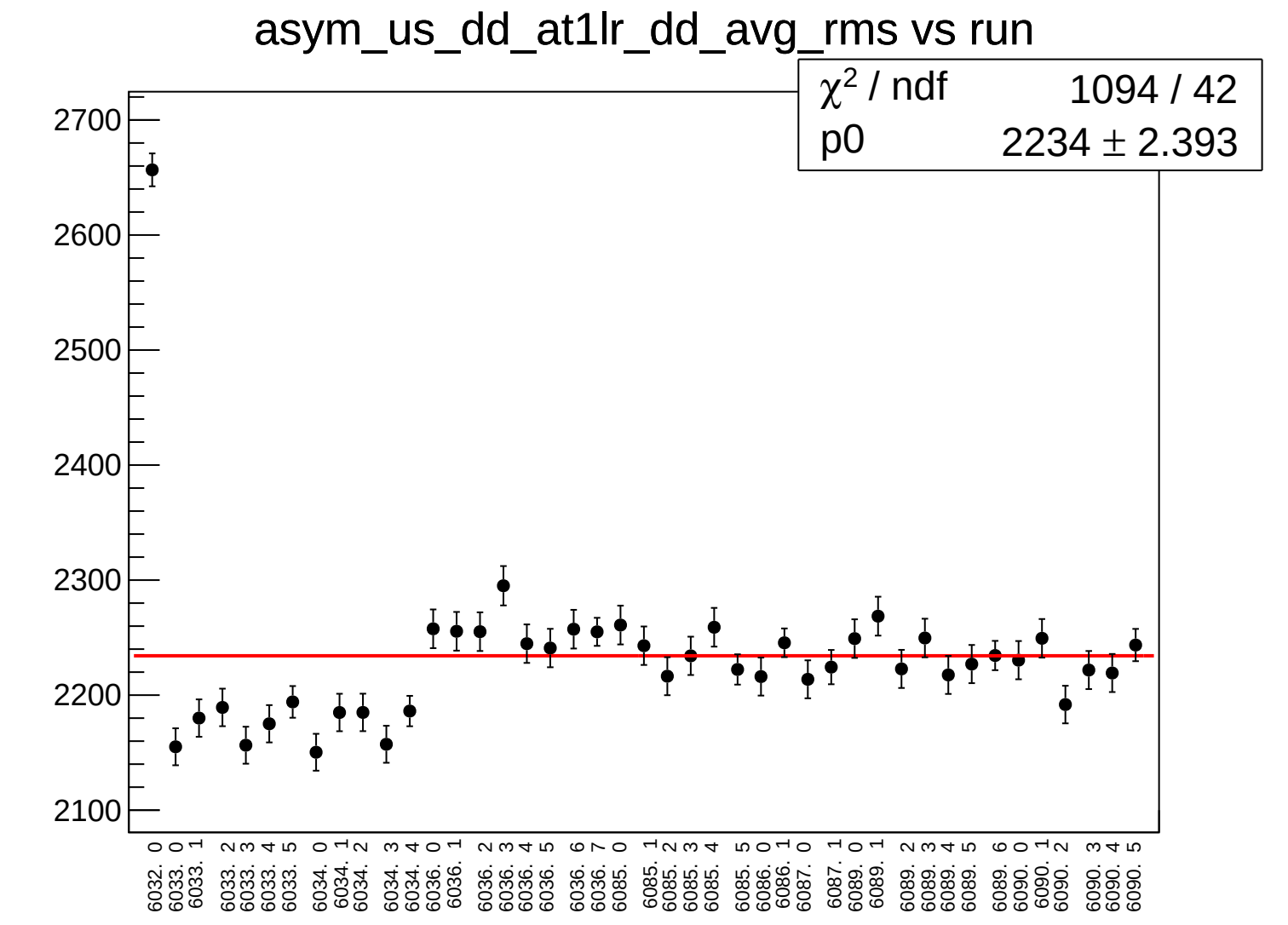

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.26 / 42
p0 −59.23 ± 412.8
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.319
Std Dev 5.54
2
1
0
−1
−2

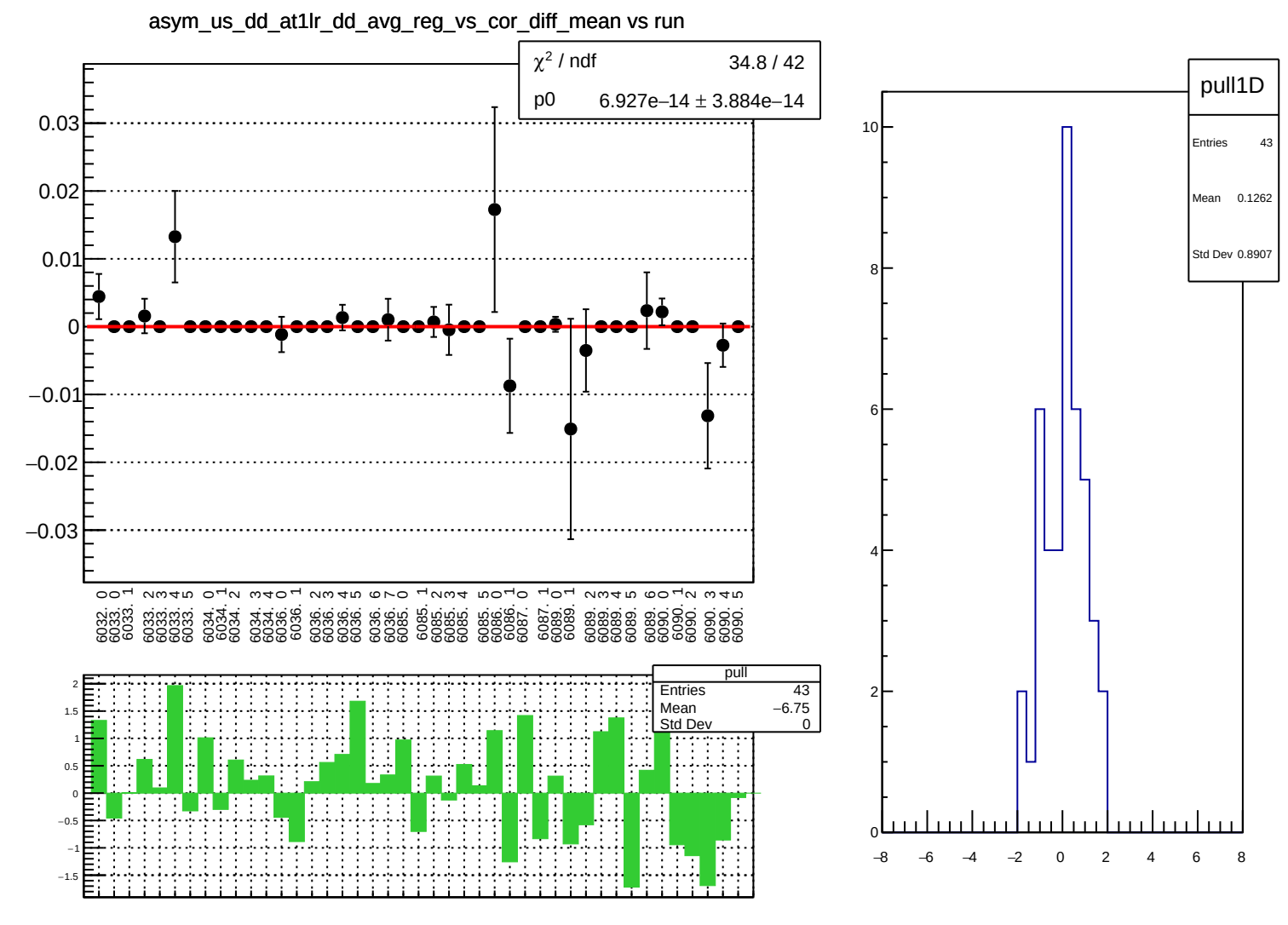

pull1D
Entries 43
Mean 0.06605
Std Dev 0.9159
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

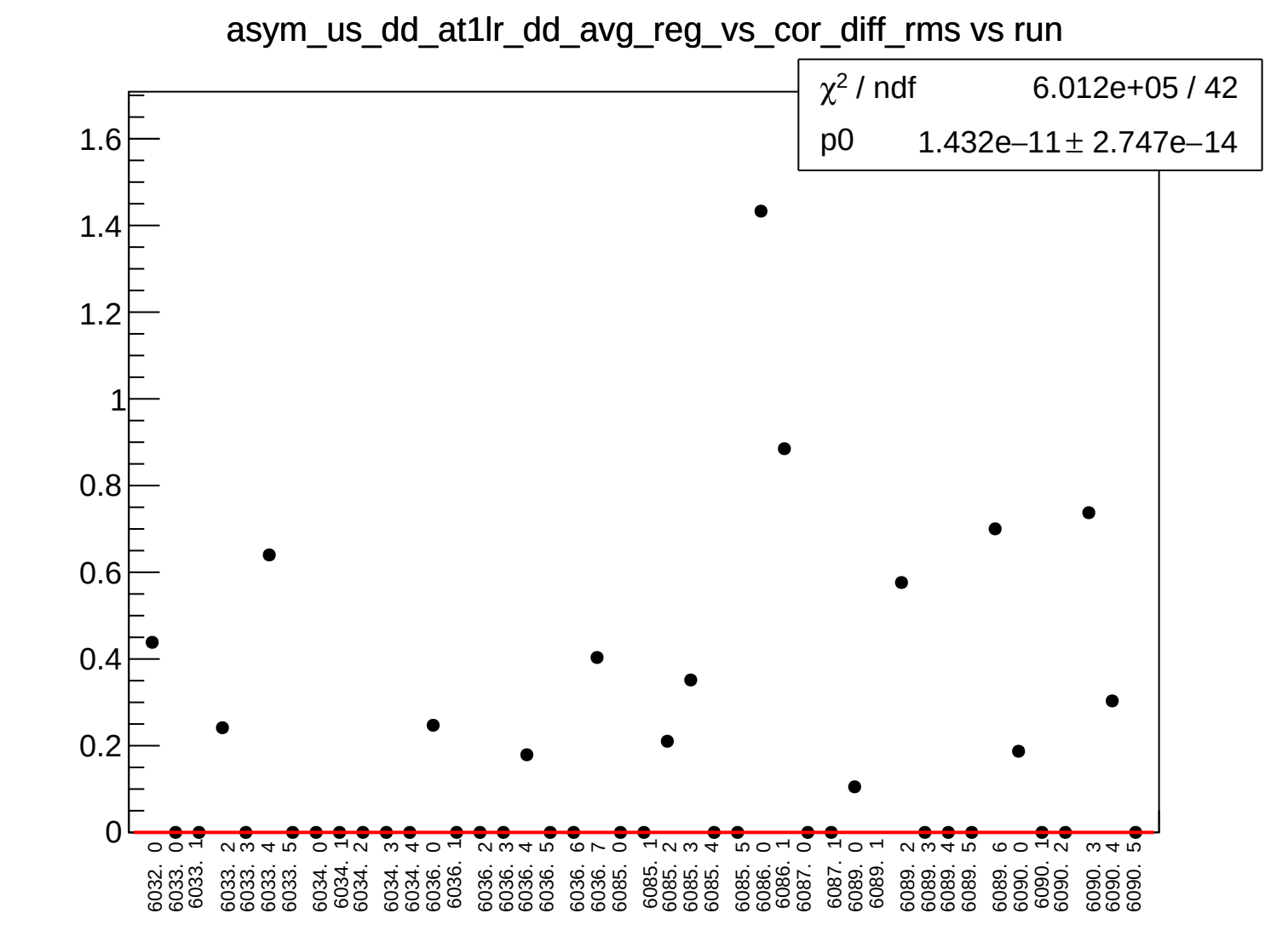

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.127e+04 / 42
p0 264.6 ± 0.2919
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

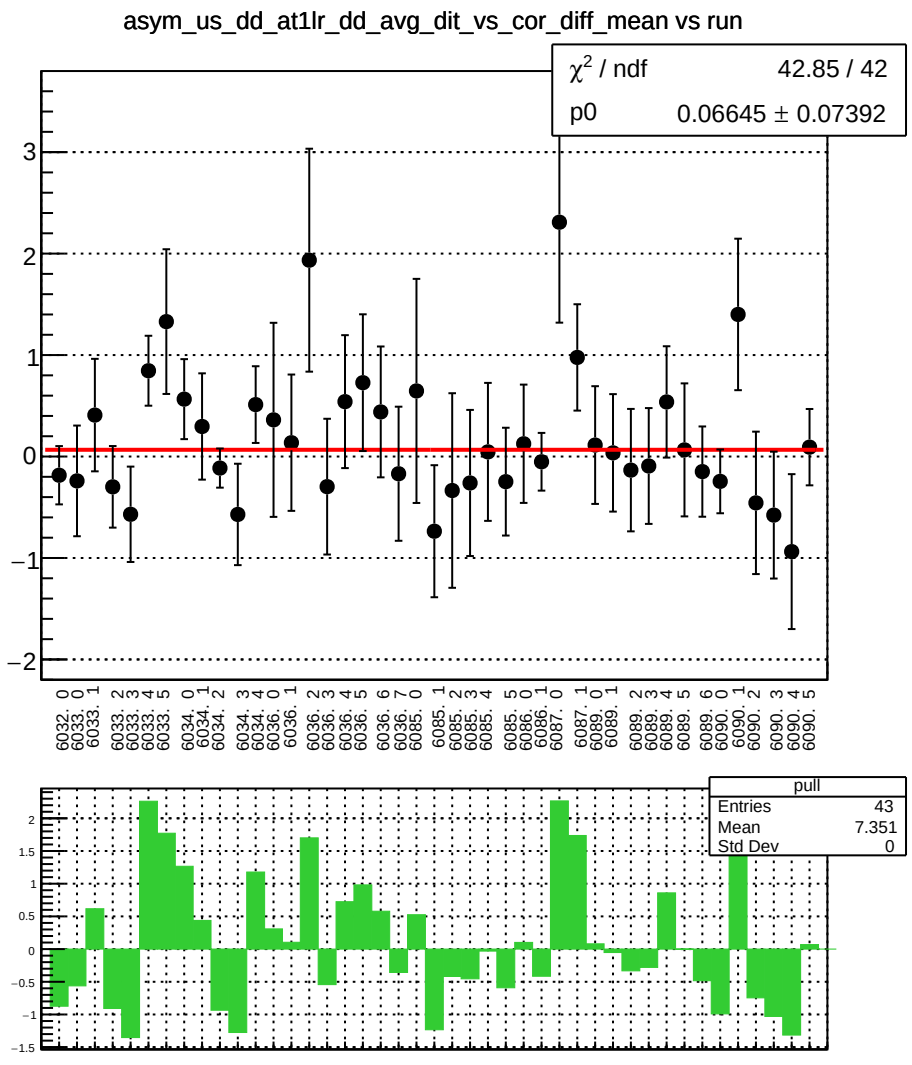

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 36.4 / 42
p0 1382 ± 3384
pull
Entries 43
Mean 242.6
Std Dev 0

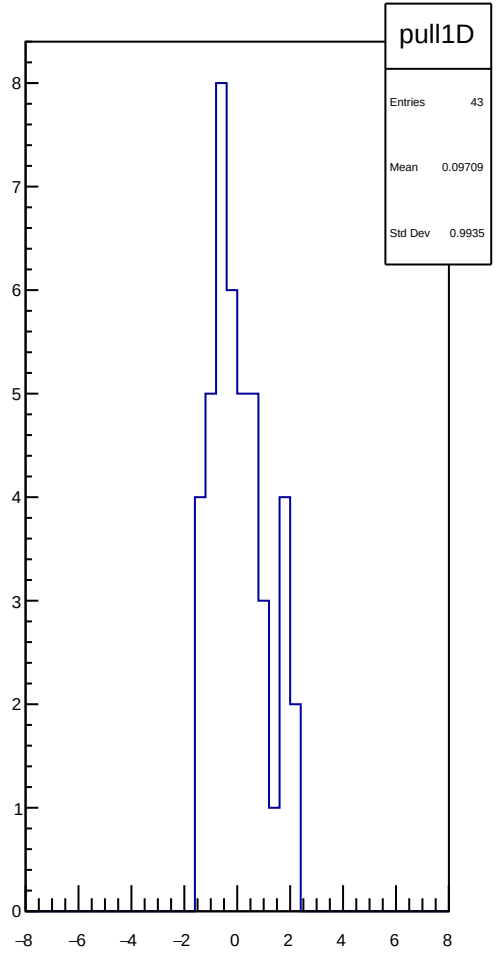

pull1D
Entries 43
Mean 0.004473
Std Dev 0.92

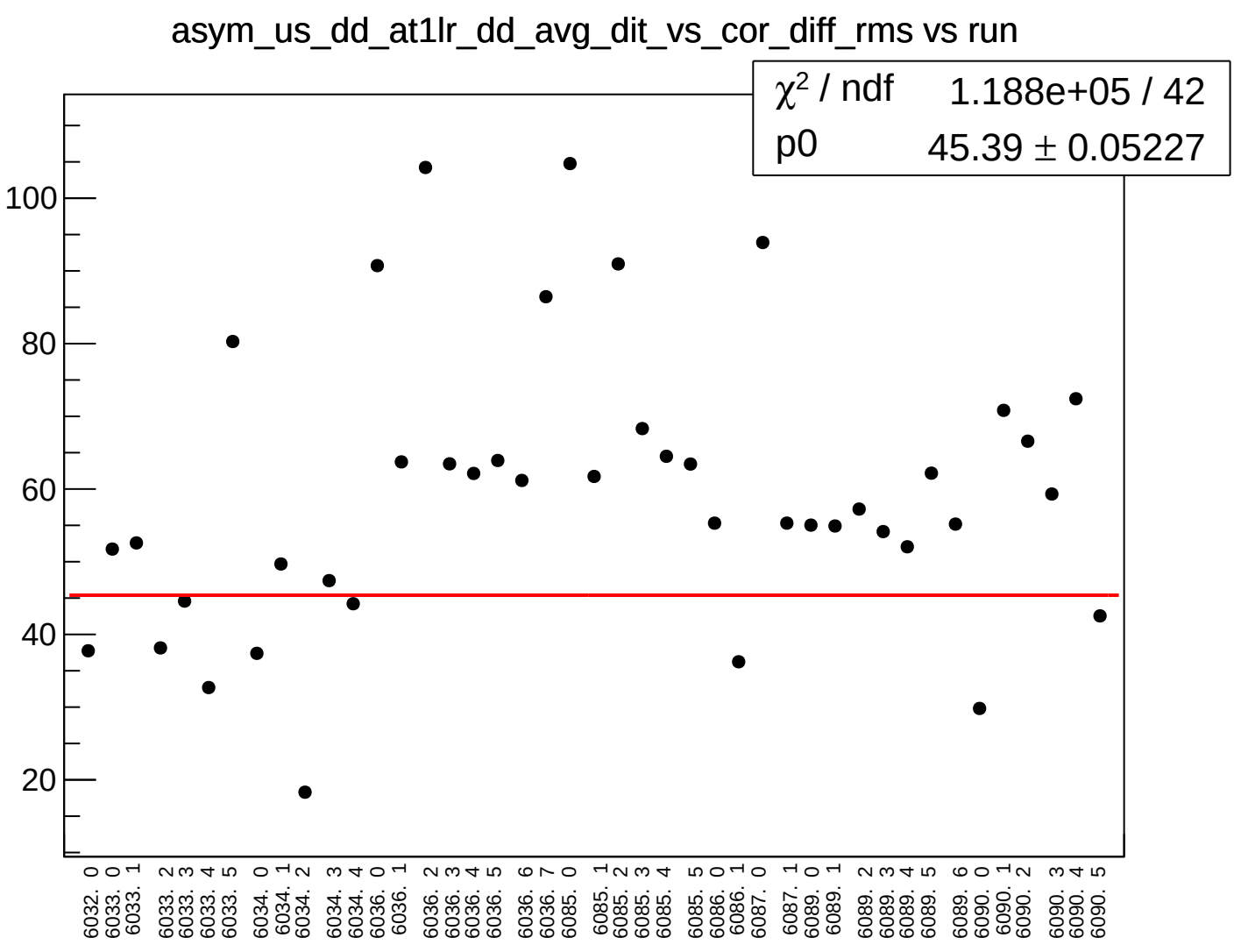

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1094 / 42
p0 2234 ± 2.393
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

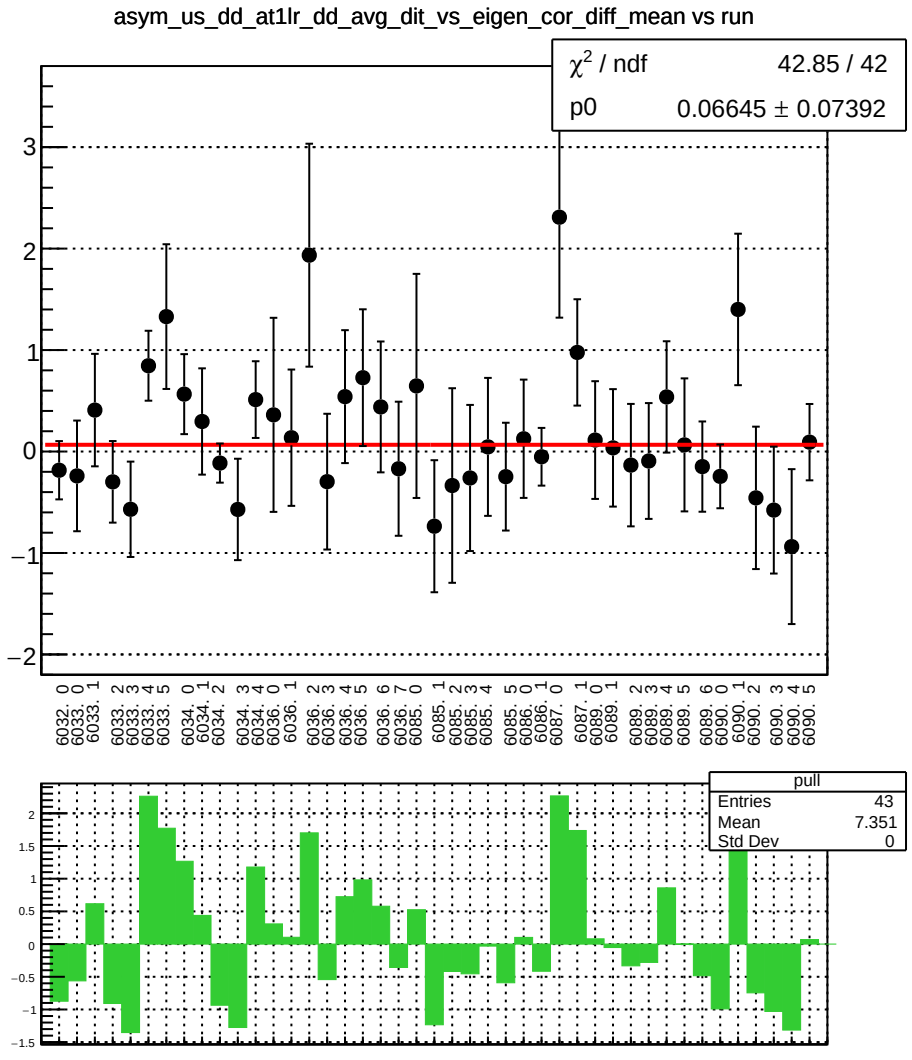

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.8 / 42
p0 6.927e−14 ± 3.884e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1262
Std Dev 0.8907
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

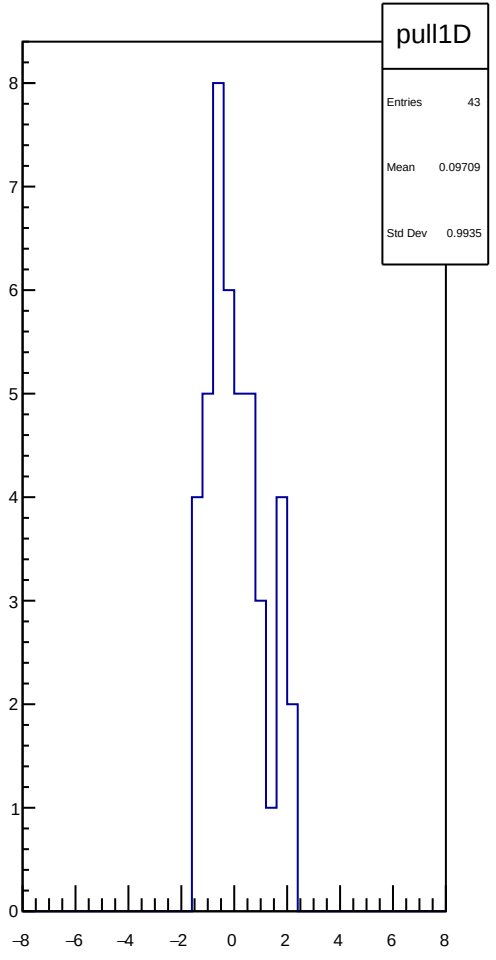

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.012e+05 / 42
p0 1.432e−11 ± 2.747e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

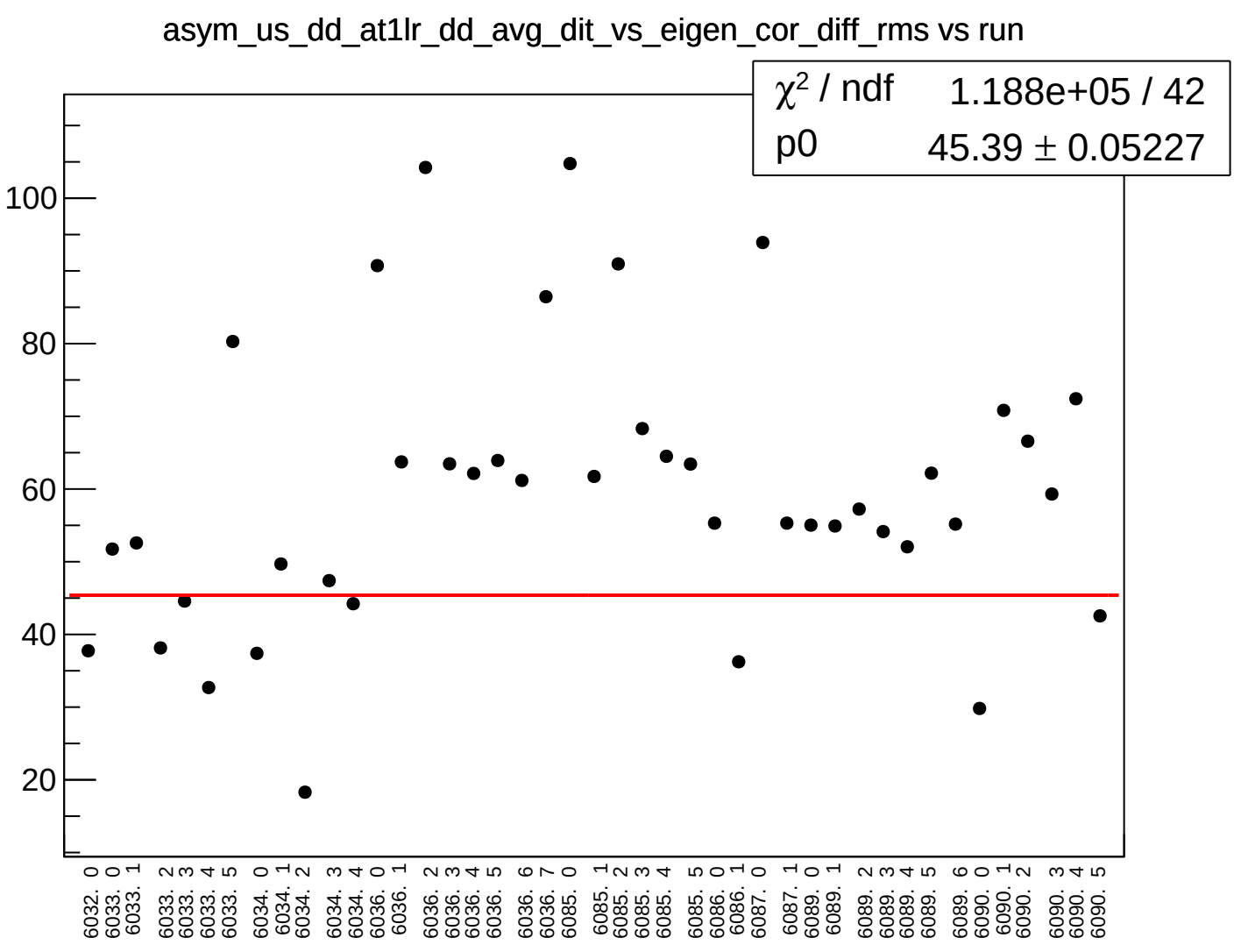

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 42.85 / 42
p0 0.06645 ± 0.07392
pull
Entries 43
Mean 7.351
Std Dev 0

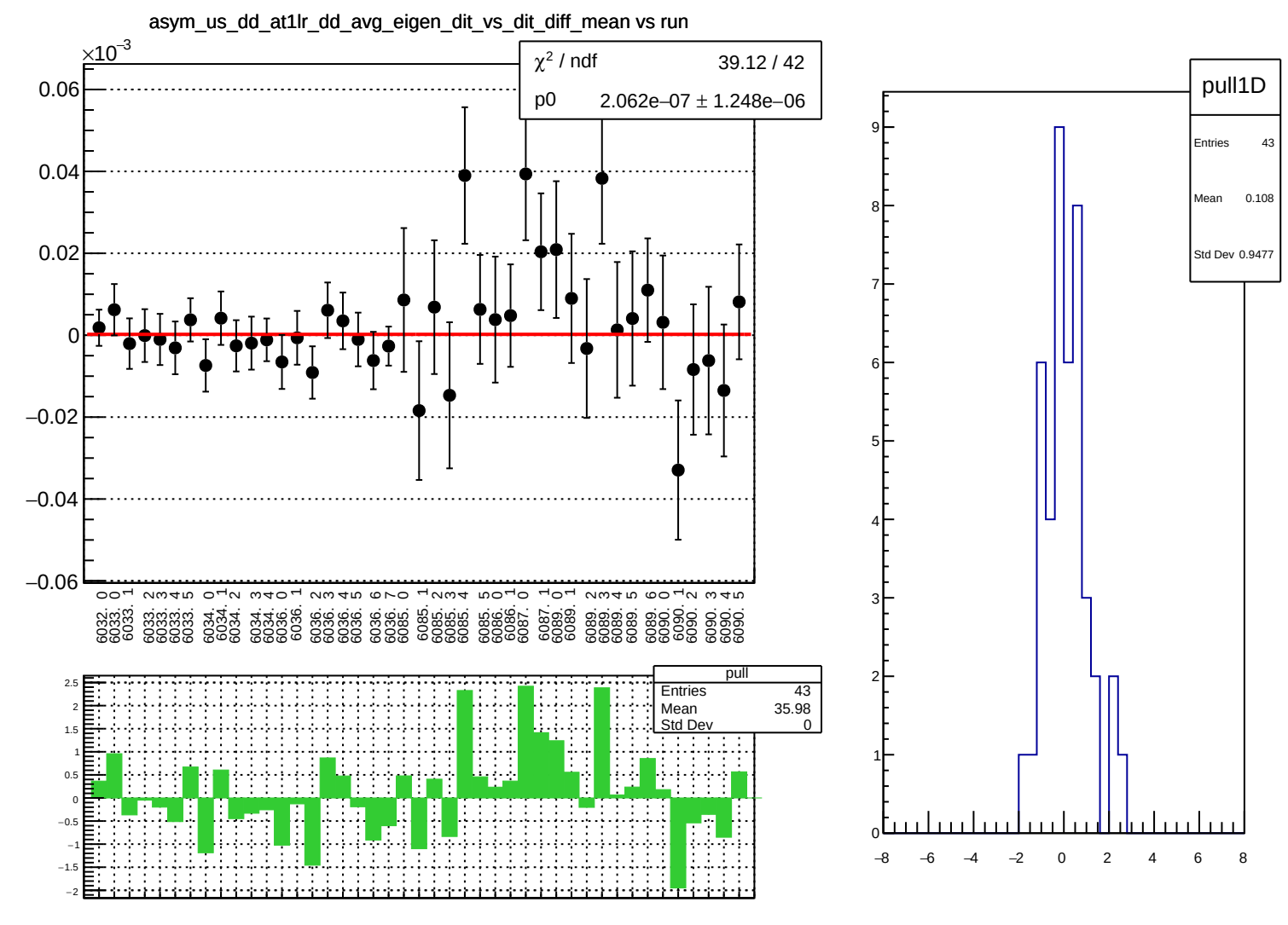

pull1D
Entries 43
Mean 0.09709
Std Dev 0.9935

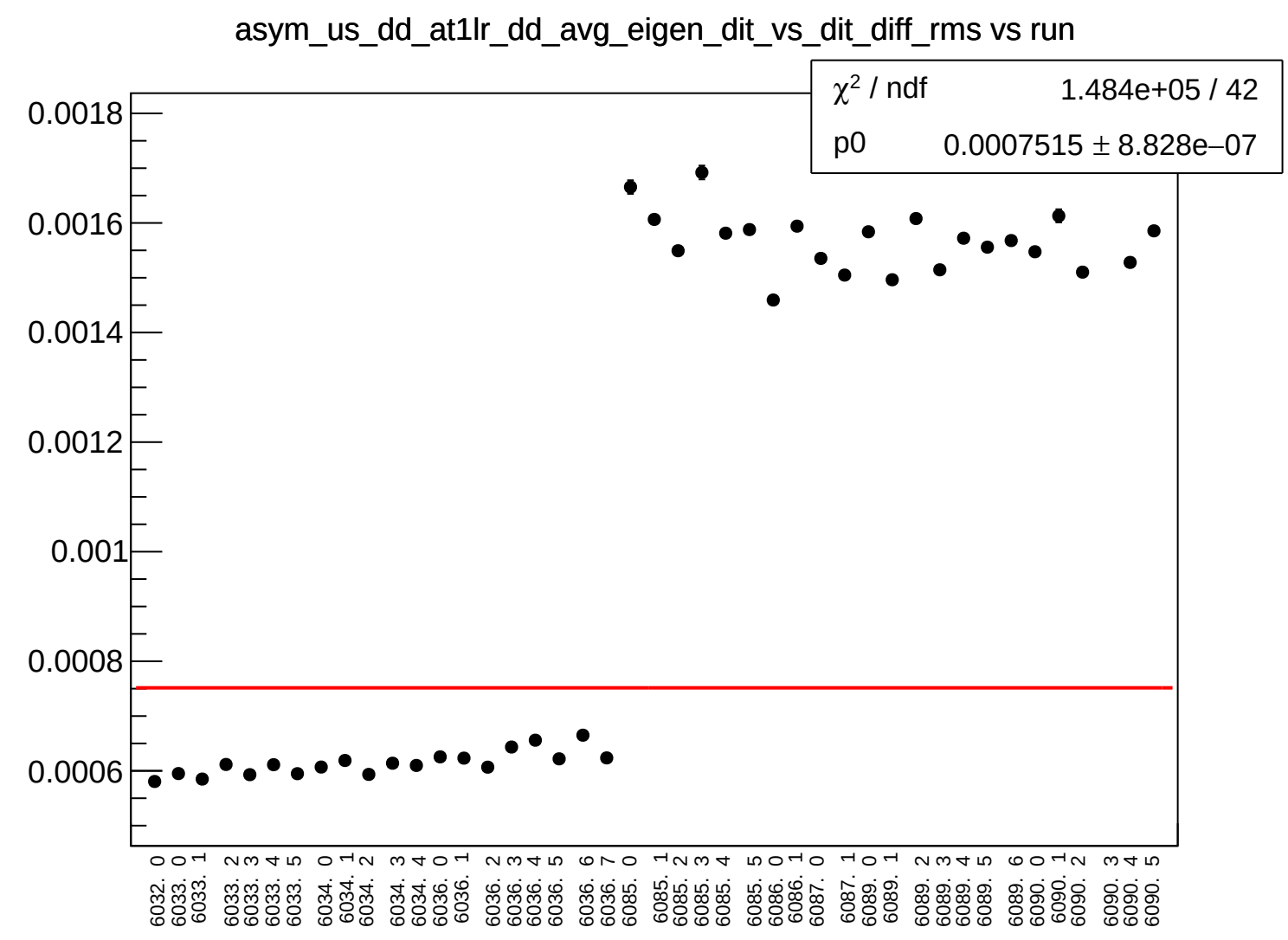

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 42
p0 45.39 ± 0.05227
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

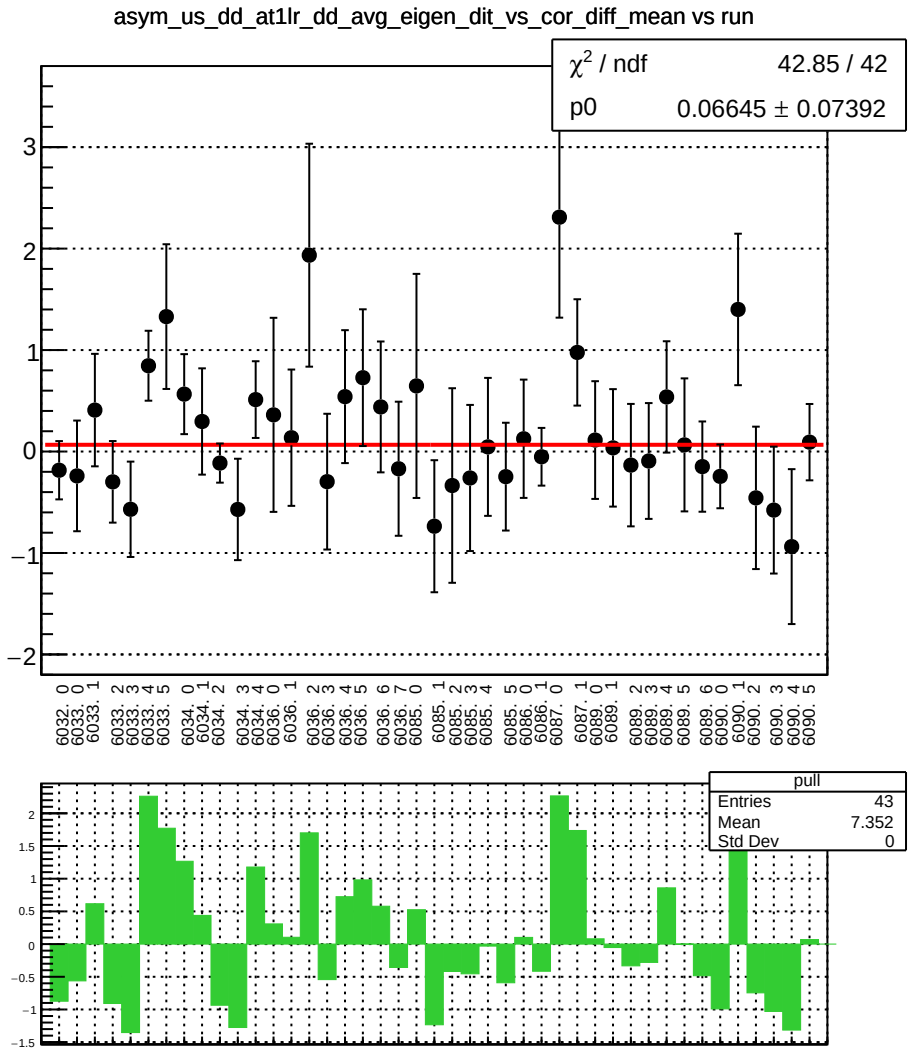

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.85 / 42
p0 0.06645 ± 0.07392
pull
Entries 43
Mean 7.351
Std Dev 0

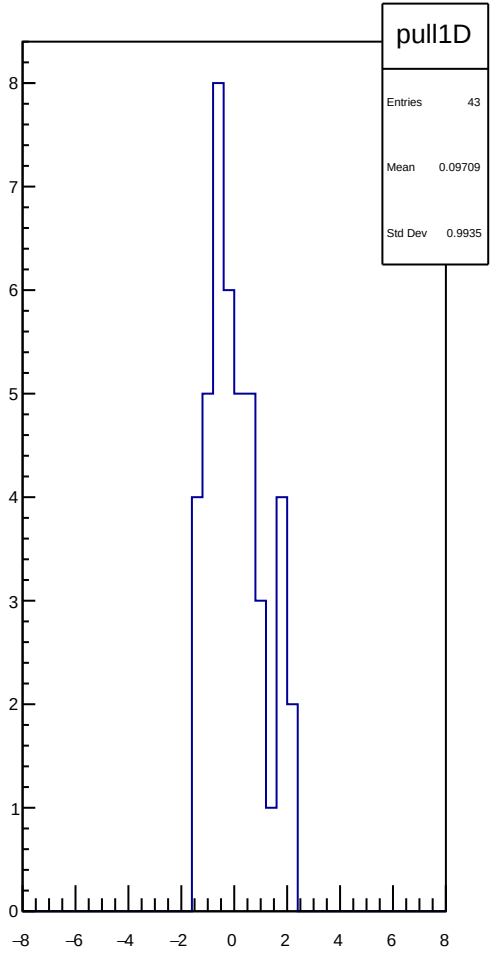

pull1D
Entries 43
Mean 0.09709
Std Dev 0.9935

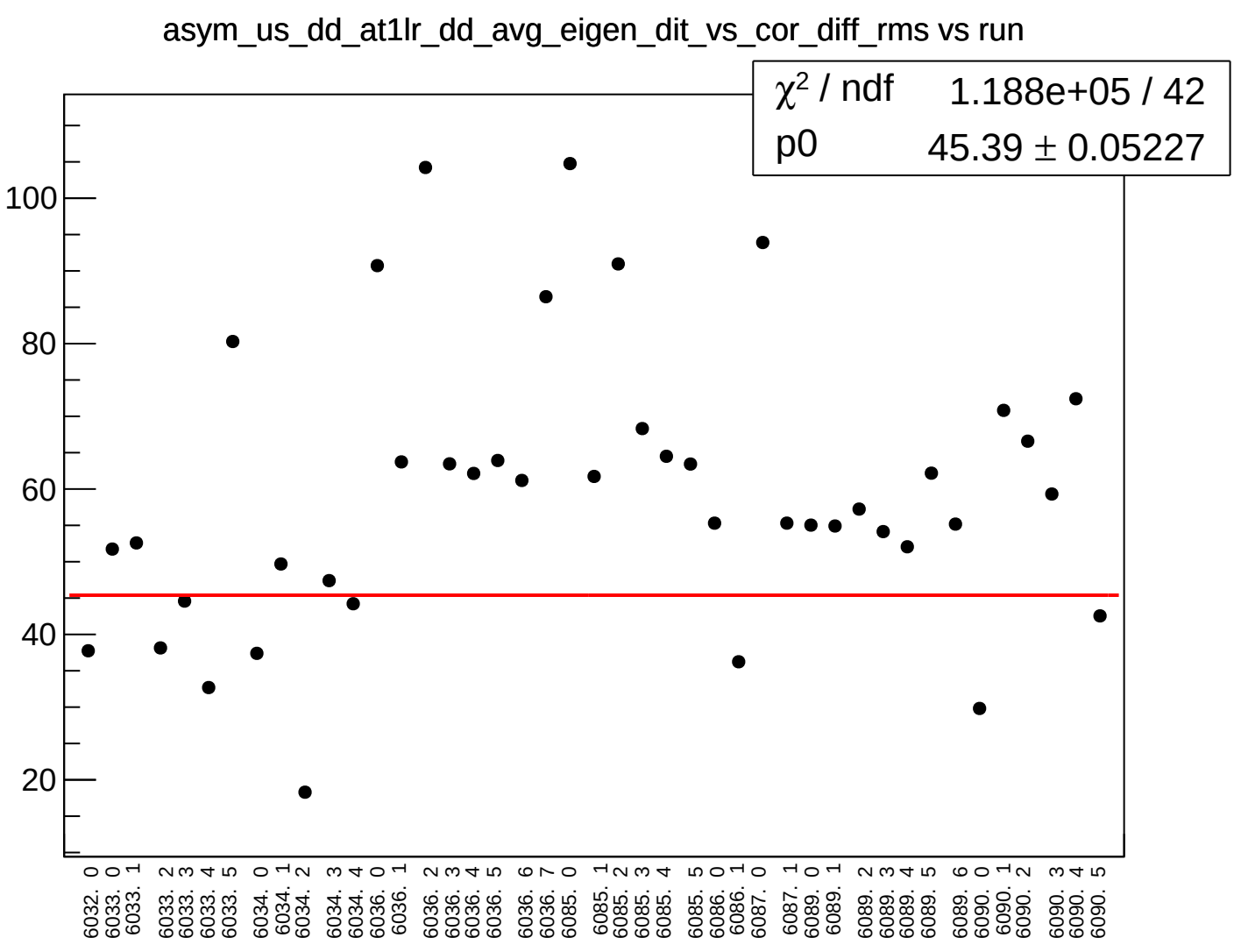

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 42
p0 45.39 ± 0.05227
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

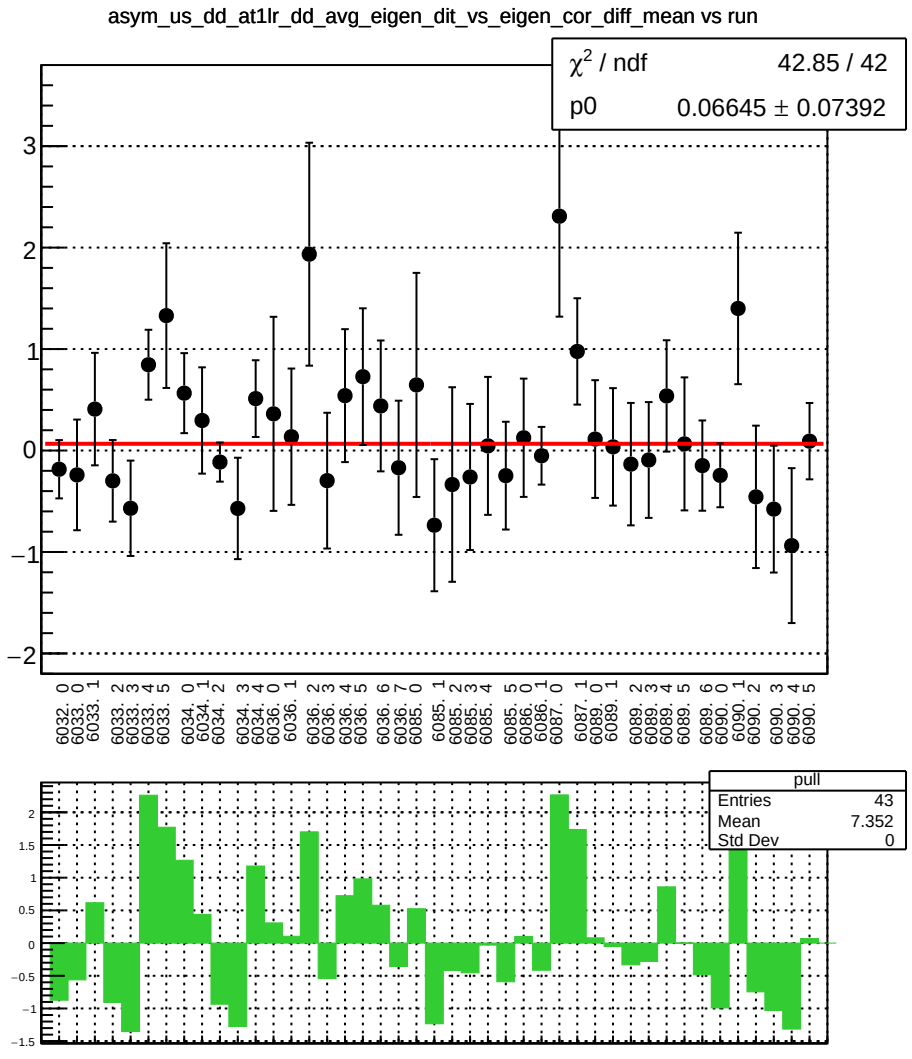

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.12 / 42
p0 2.062e−07 ± 1.248e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 35.98
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.108
Std Dev 0.9477
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

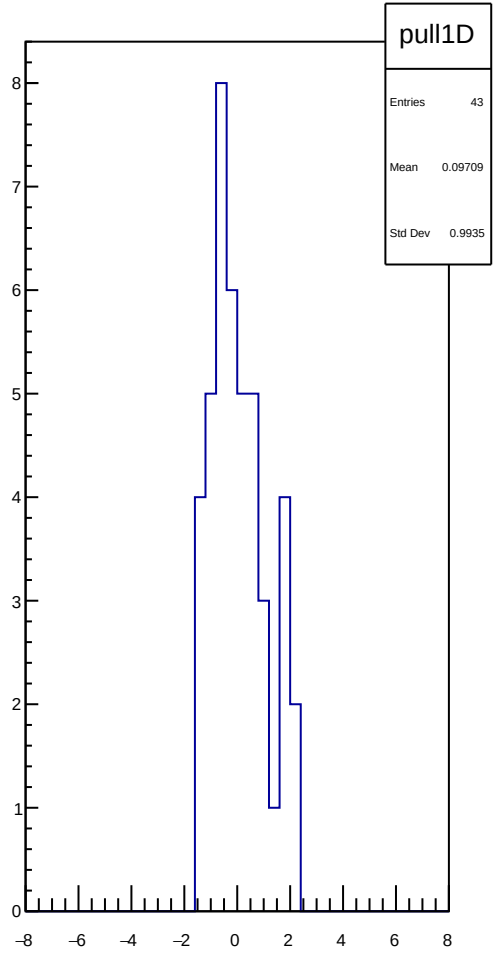

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.484e+05 / 42
p0 0.0007515 ± 8.828e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

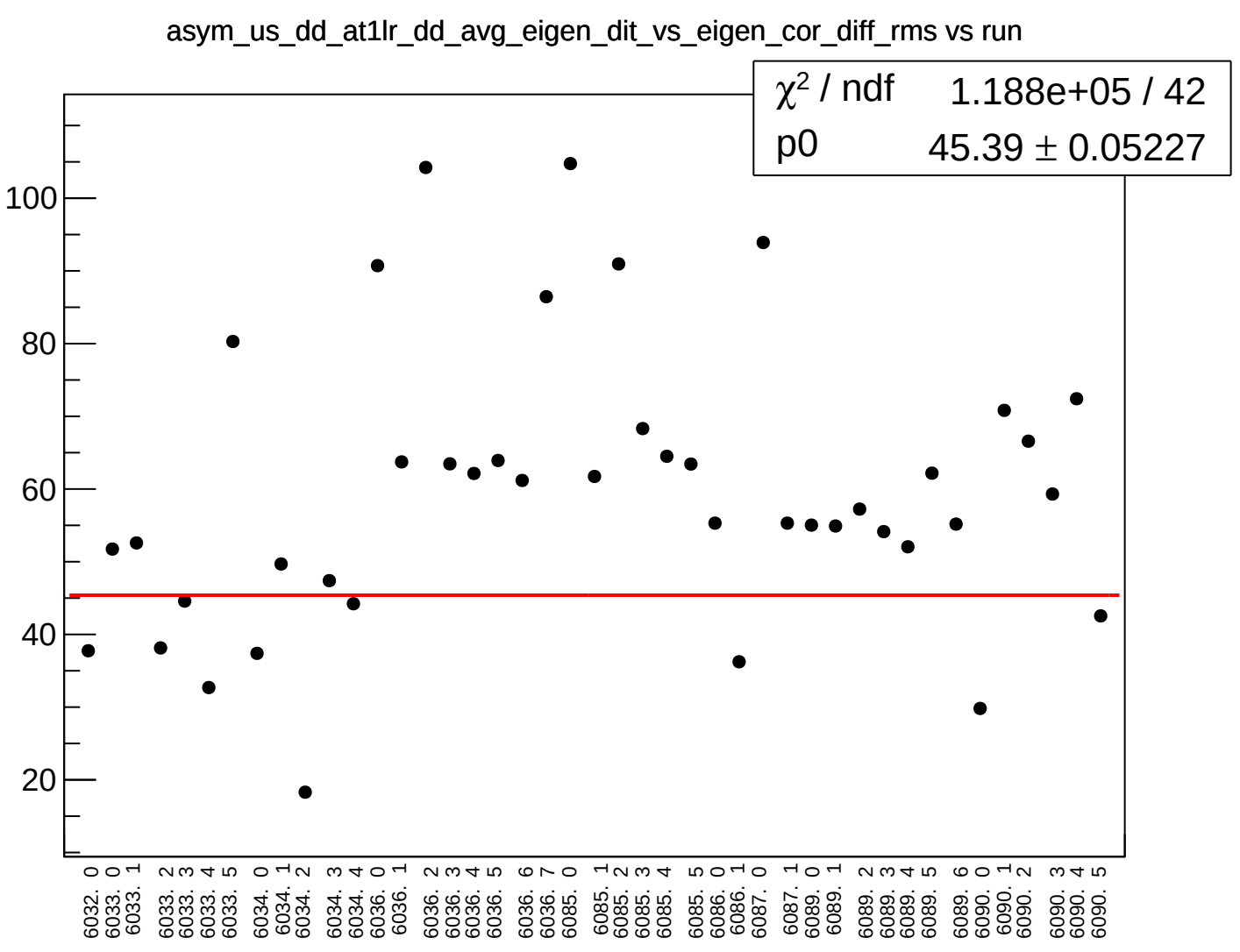

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.85 / 42
p0 0.06645 ± 0.07392
pull
Entries 43
Mean 7.352
Std Dev 0

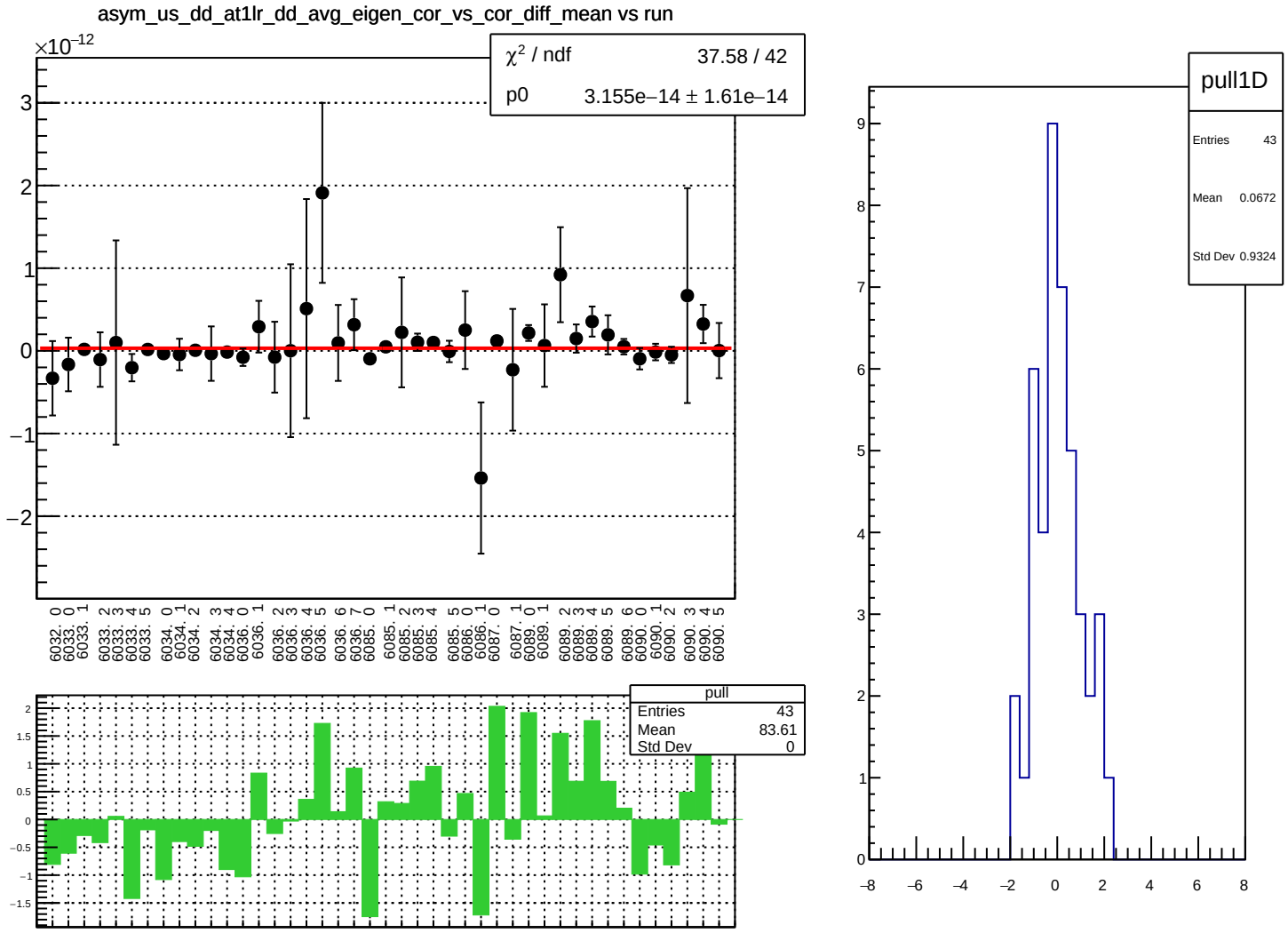

pull1D
Entries 43
Mean 0.09709
Std Dev 0.9935

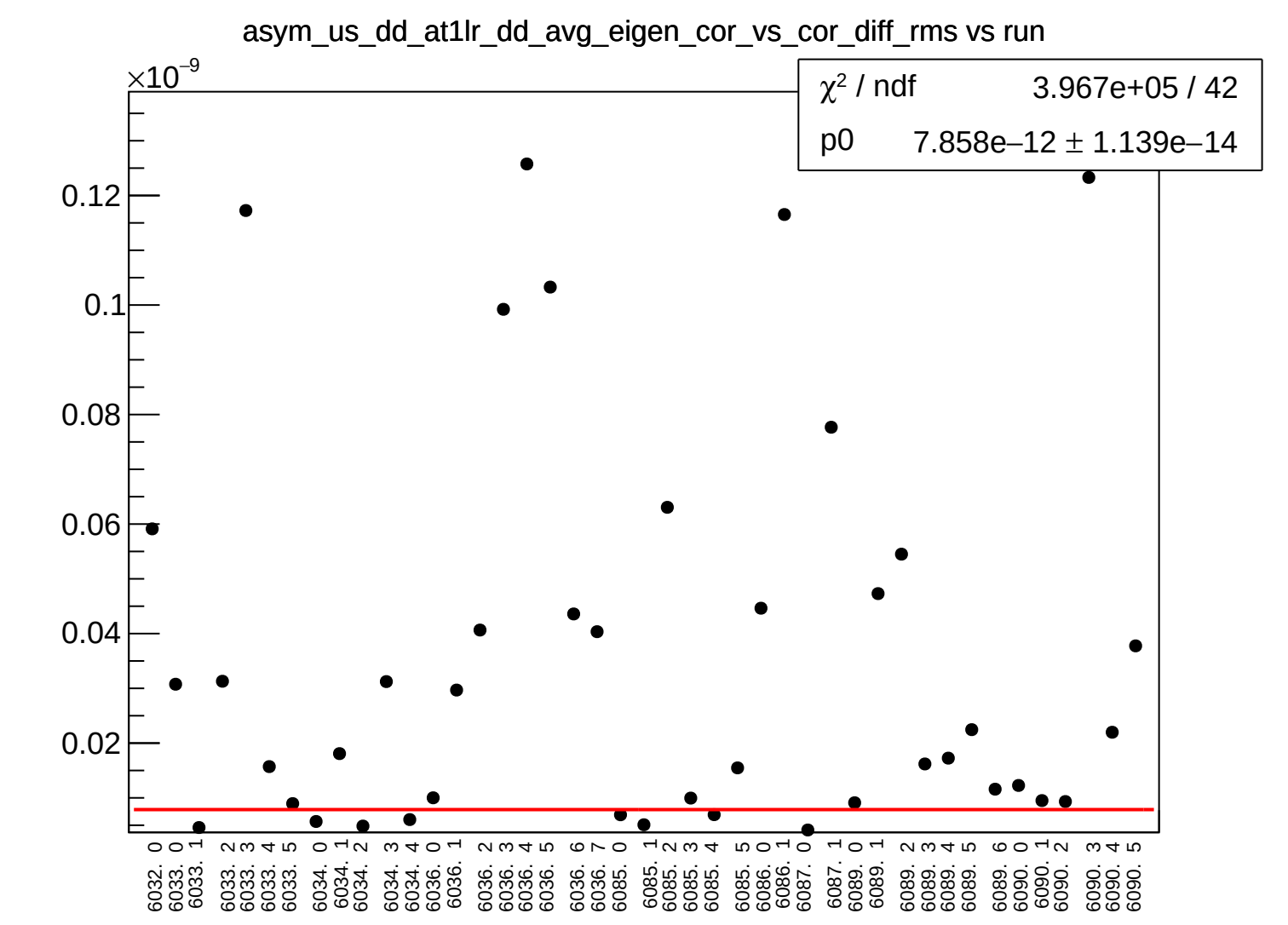

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 42
p0 45.39 ± 0.05227
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

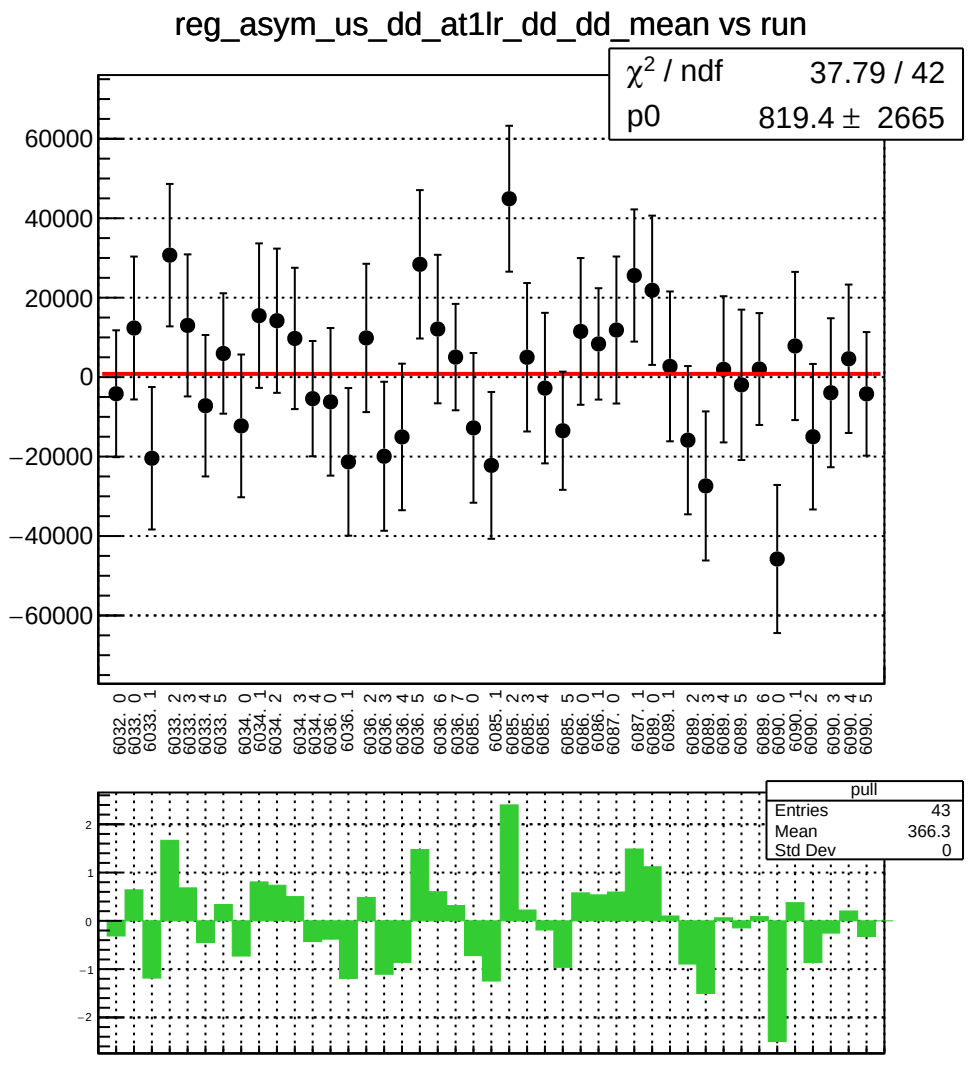

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.85 / 42
p0 0.06645 ± 0.07392
pull
Entries 43
Mean 7.352
Std Dev 0

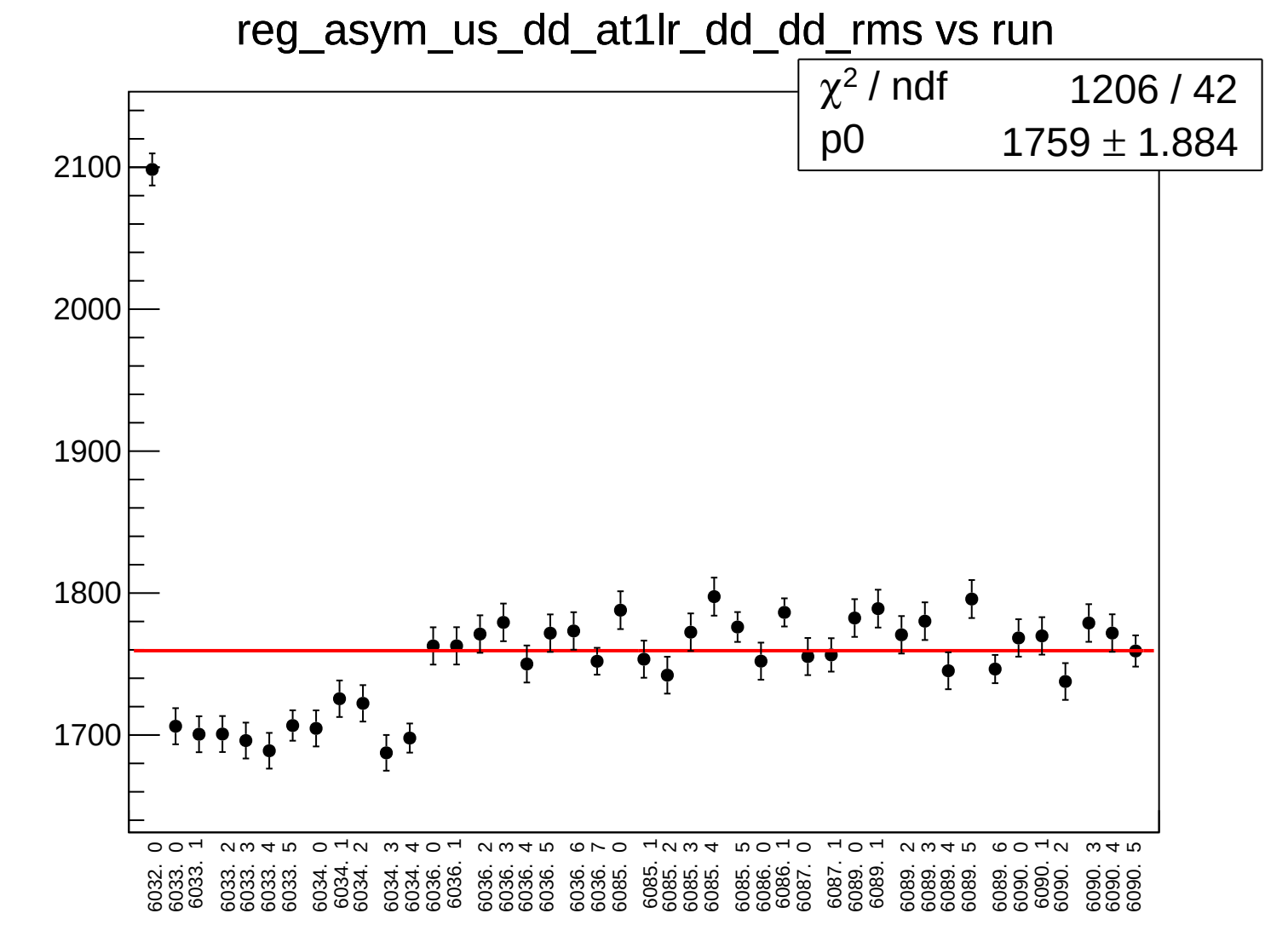

pull1D
Entries 43
Mean 0.09709
Std Dev 0.9935

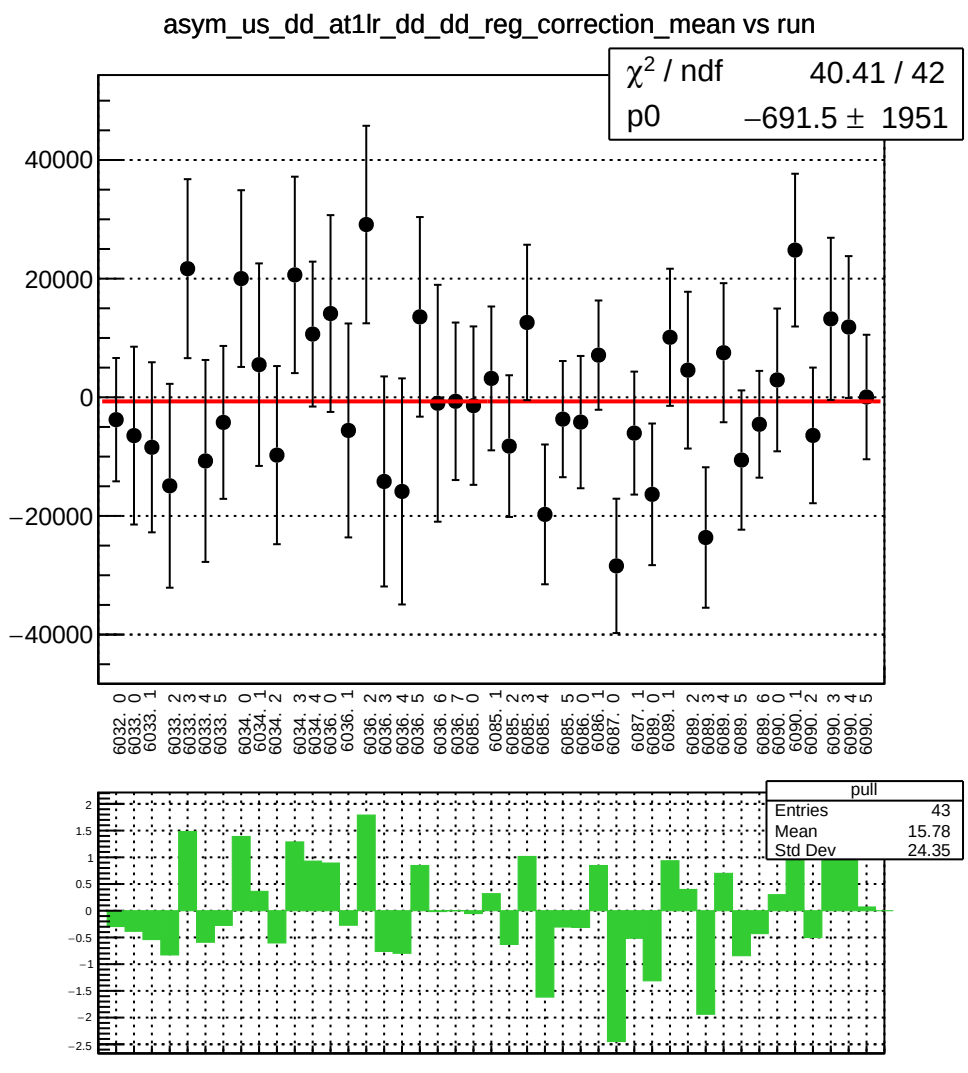

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.188e+05 / 42
p0 45.39 ± 0.05227
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

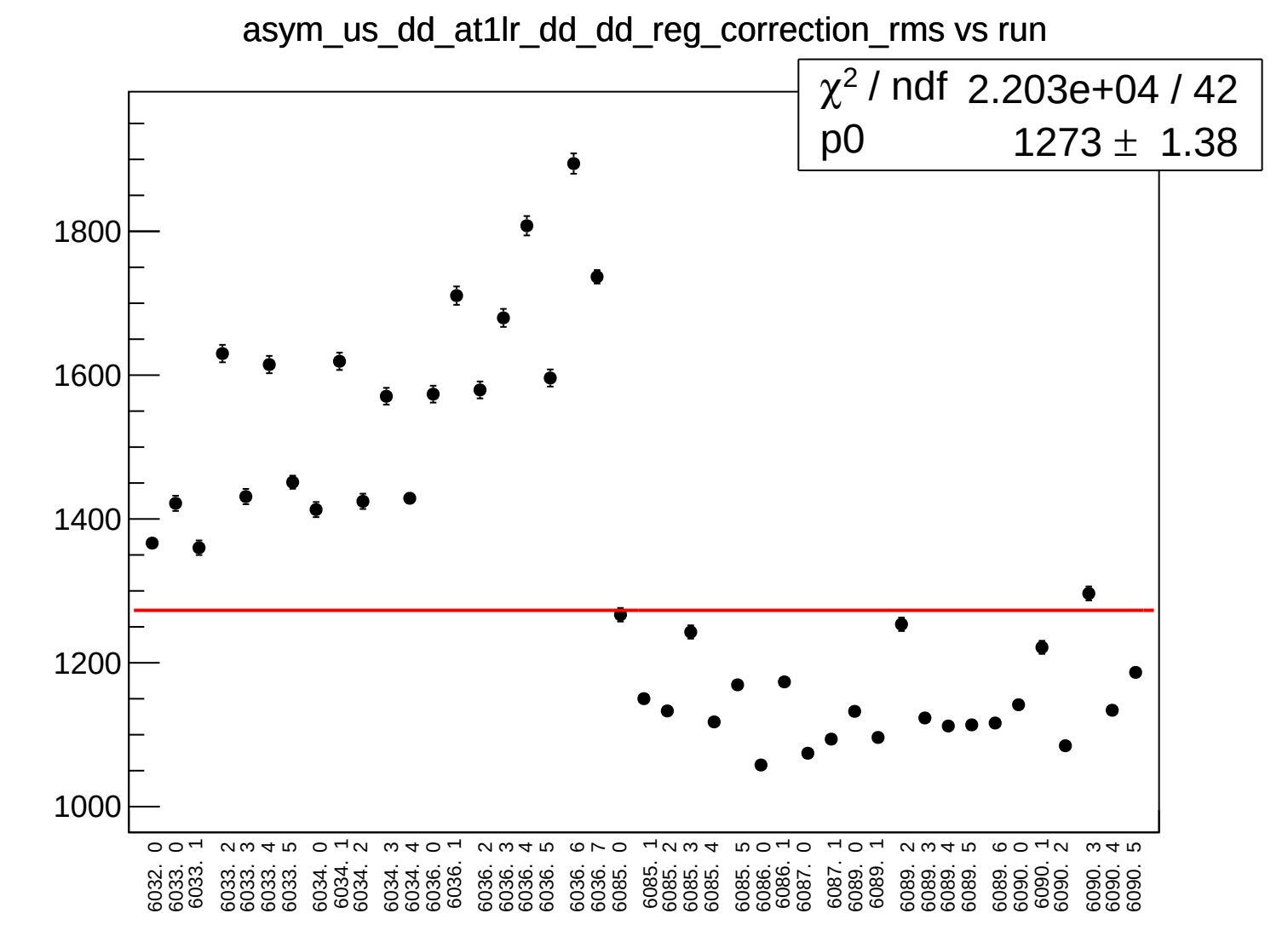

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.58 / 42
p0 3.155e−14 ± 1.61e−14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 83.61
Std Dev 0
pull1D
Entries 43
Mean 0.0672
Std Dev 0.9324

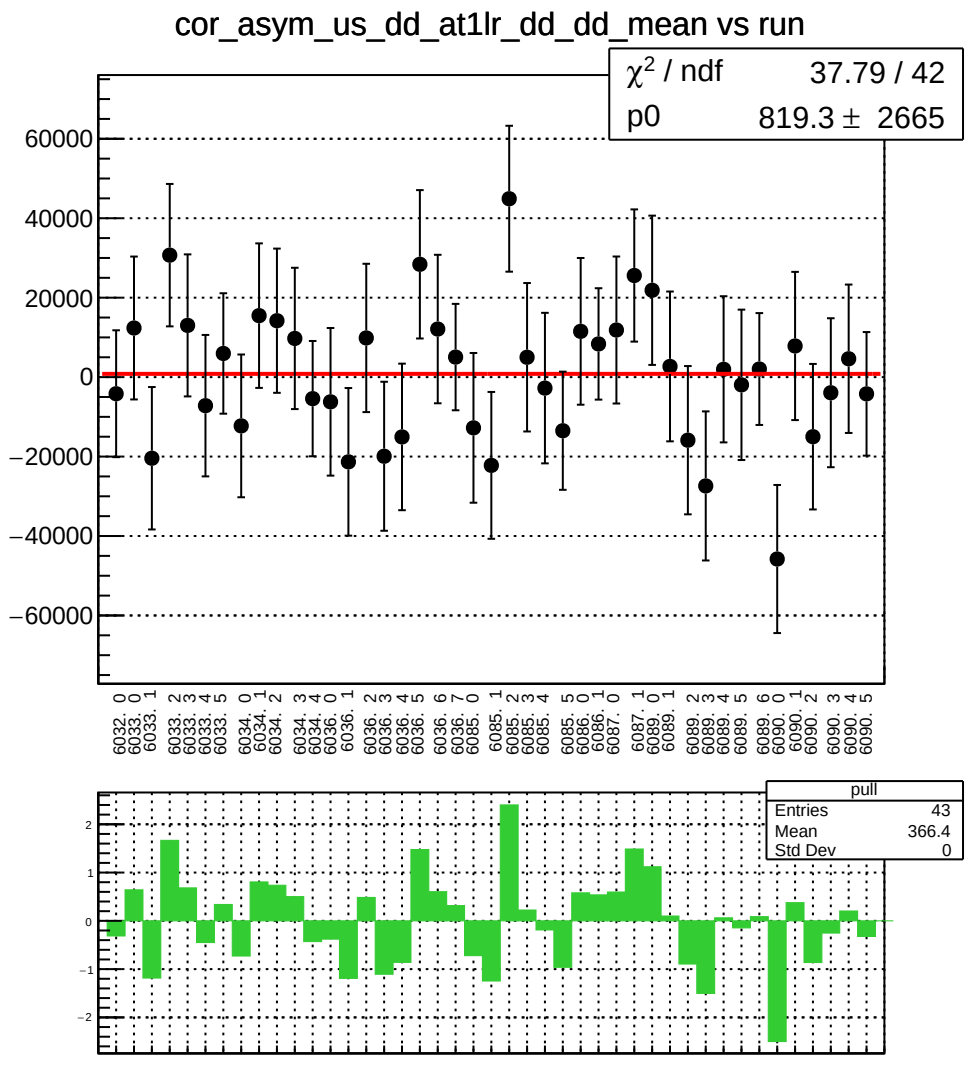

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.967e+05 / 42
p0 7.858e−12 ± 1.139e−14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

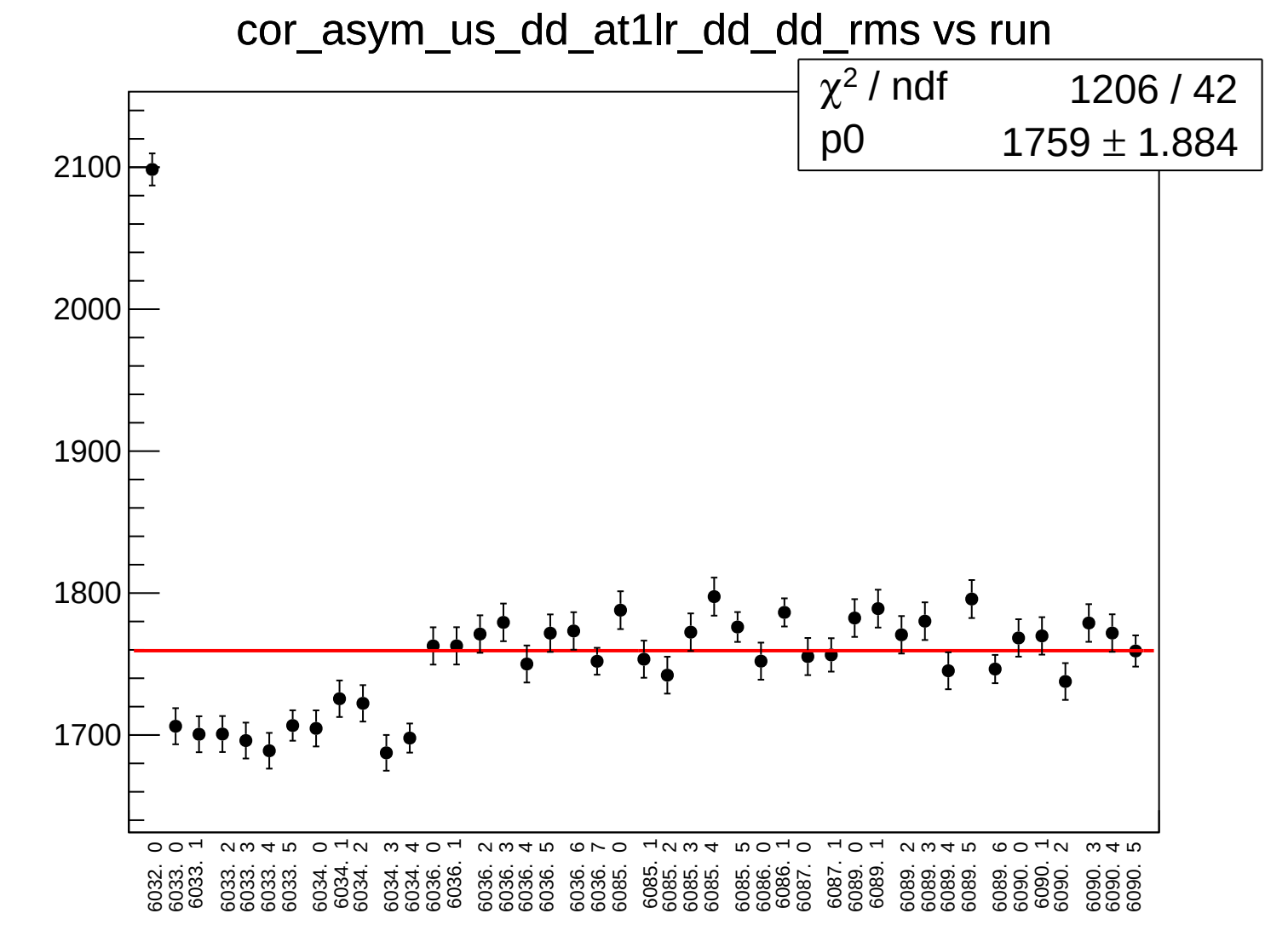

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.79 / 42
p0 819.4 ± 2665
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 366.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.004957
Std Dev 0.9375
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

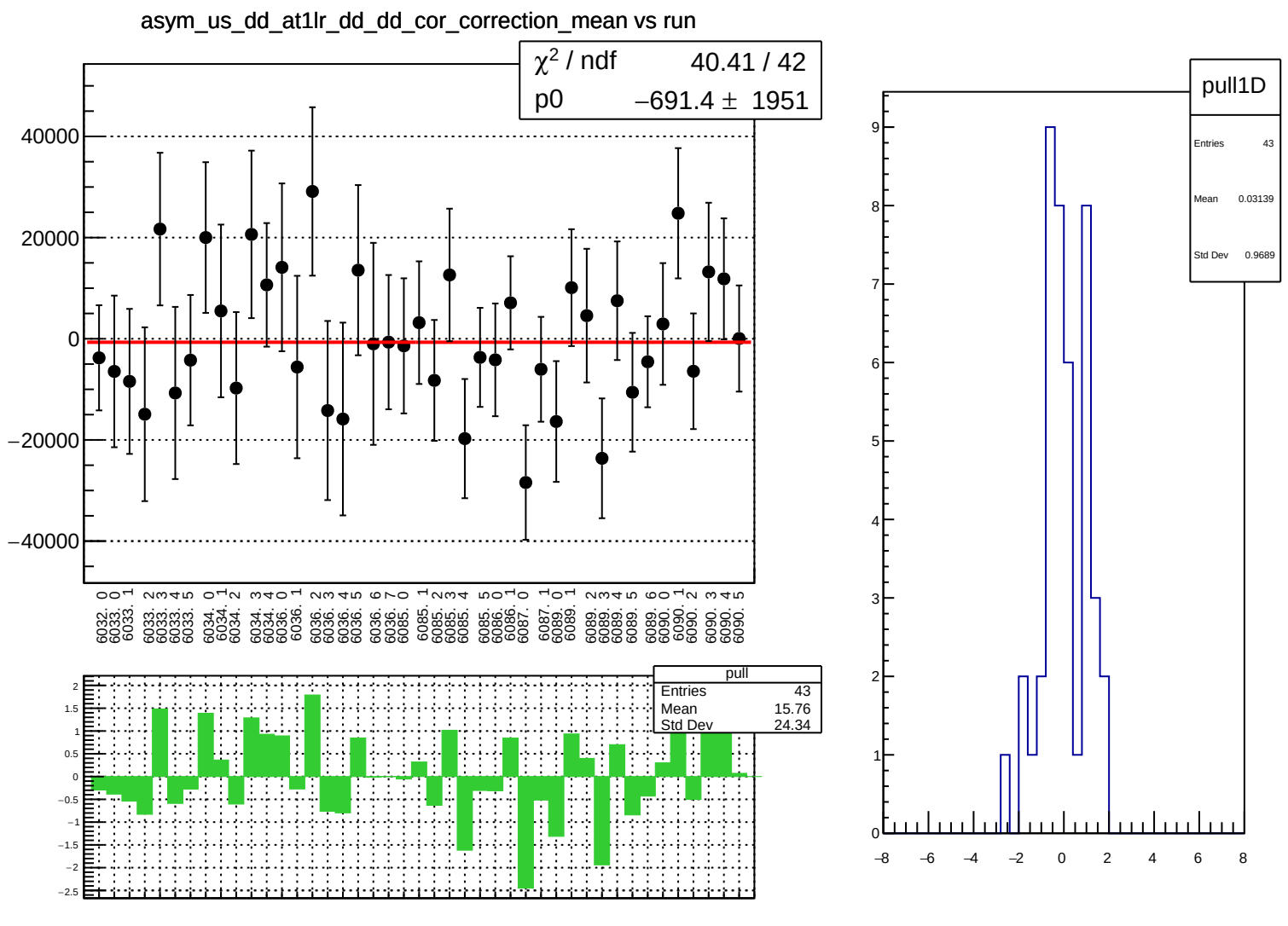

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1206 / 42
p0 1759 ± 1.884
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

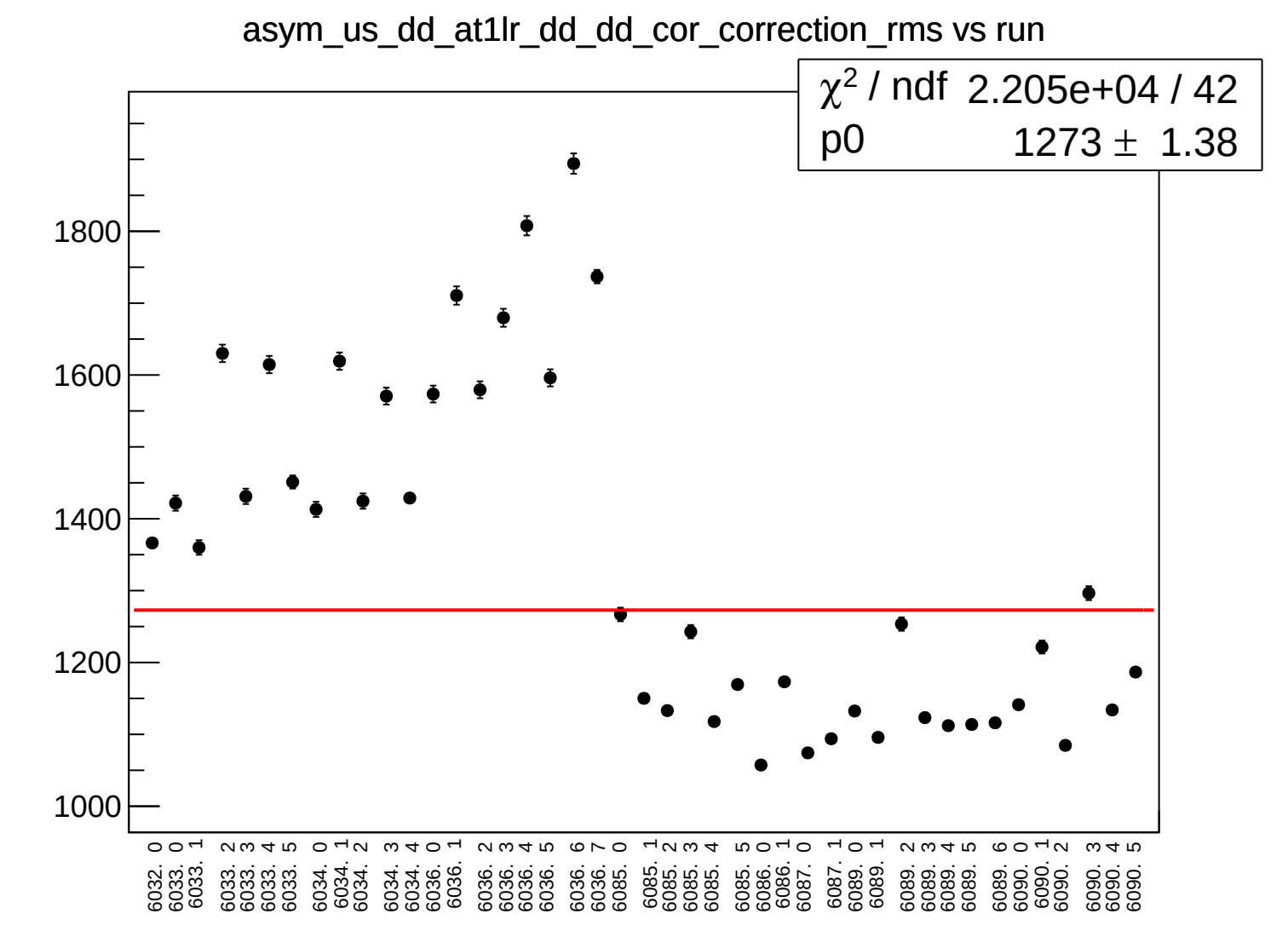

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 40.41 / 42
p0 −691.5 ± 1951
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.78
Std Dev 24.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.0314
Std Dev 0.969
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

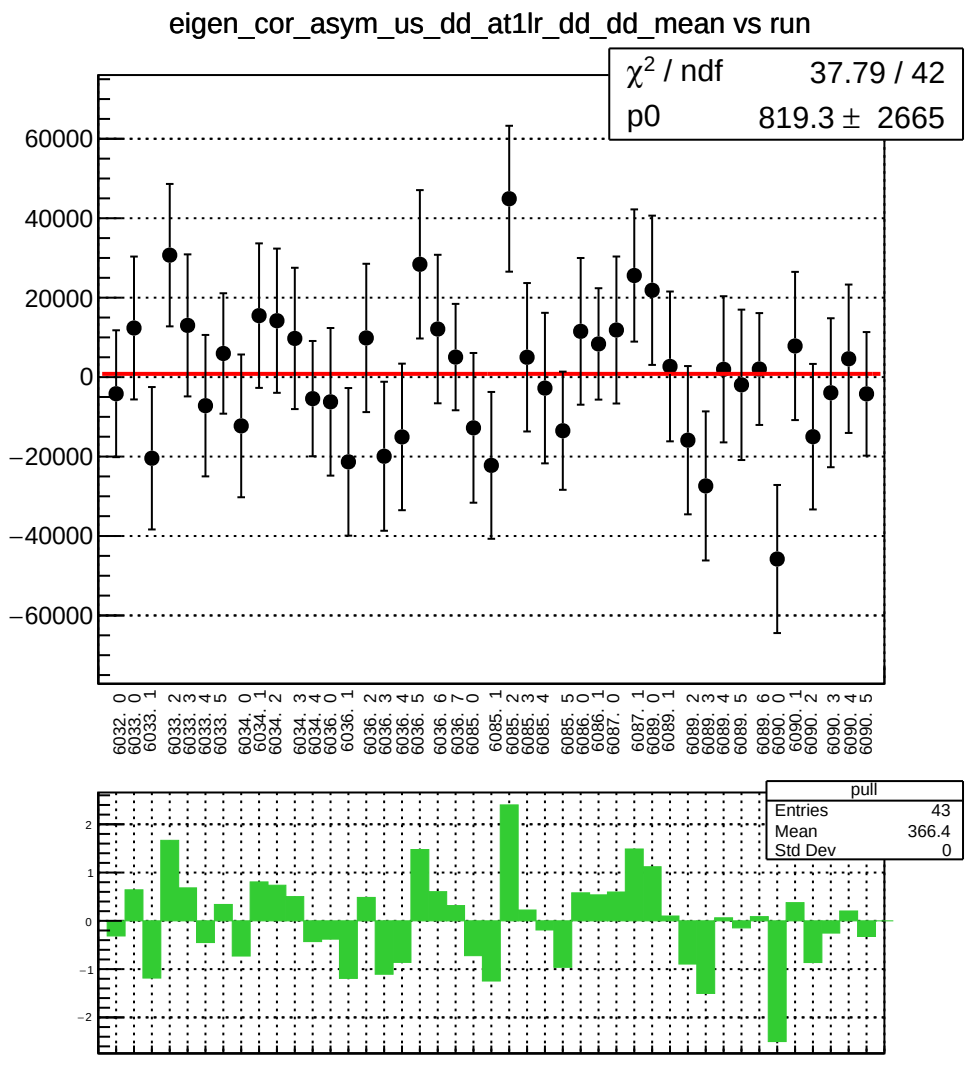

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.203e+04 / 42
p0 1273 ± 1.38
1800
1600
1400
1200
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

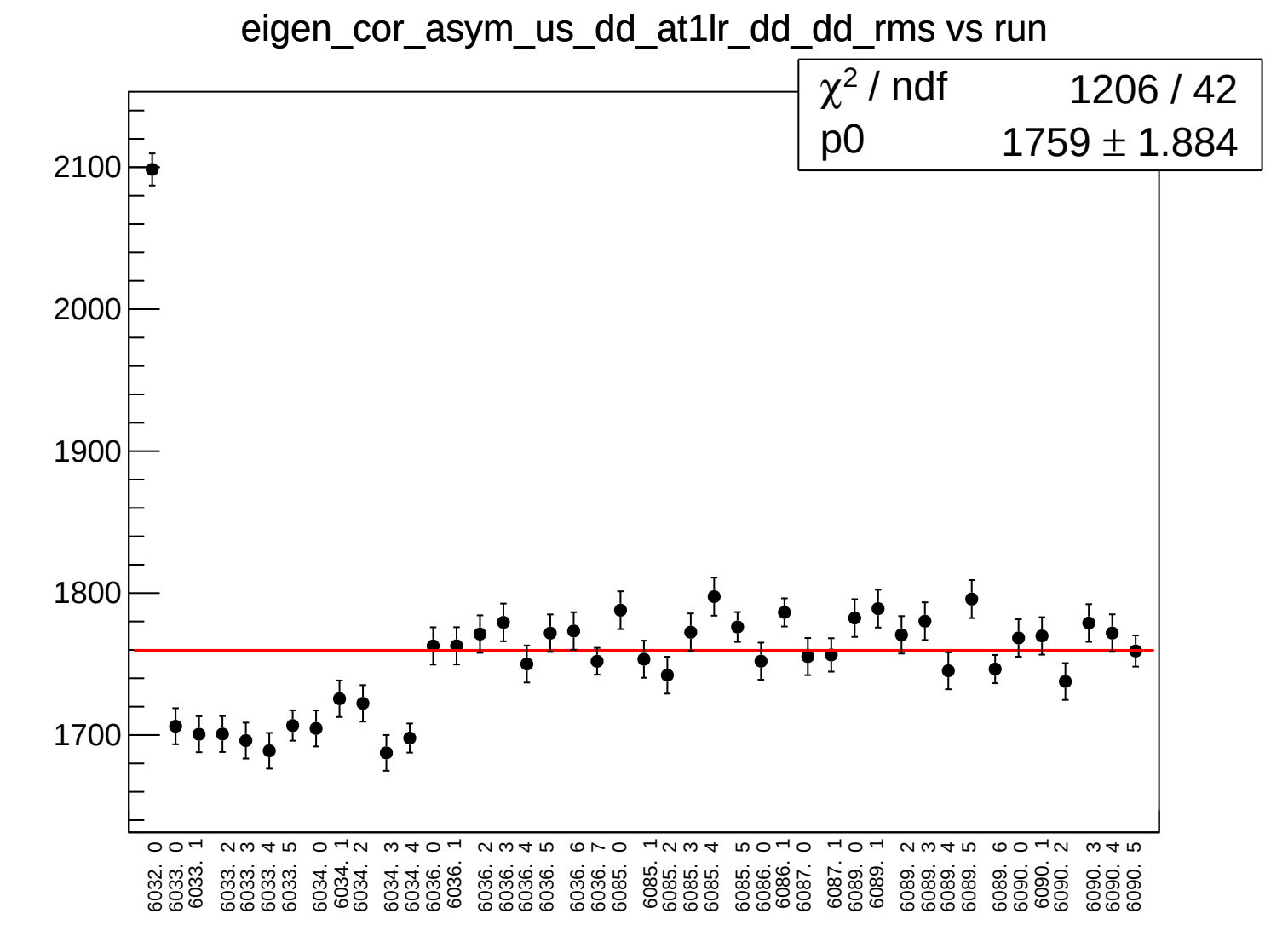

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.79 / 42
p0 819.3 ± 2665
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 366.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.004957
Std Dev 0.9375
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

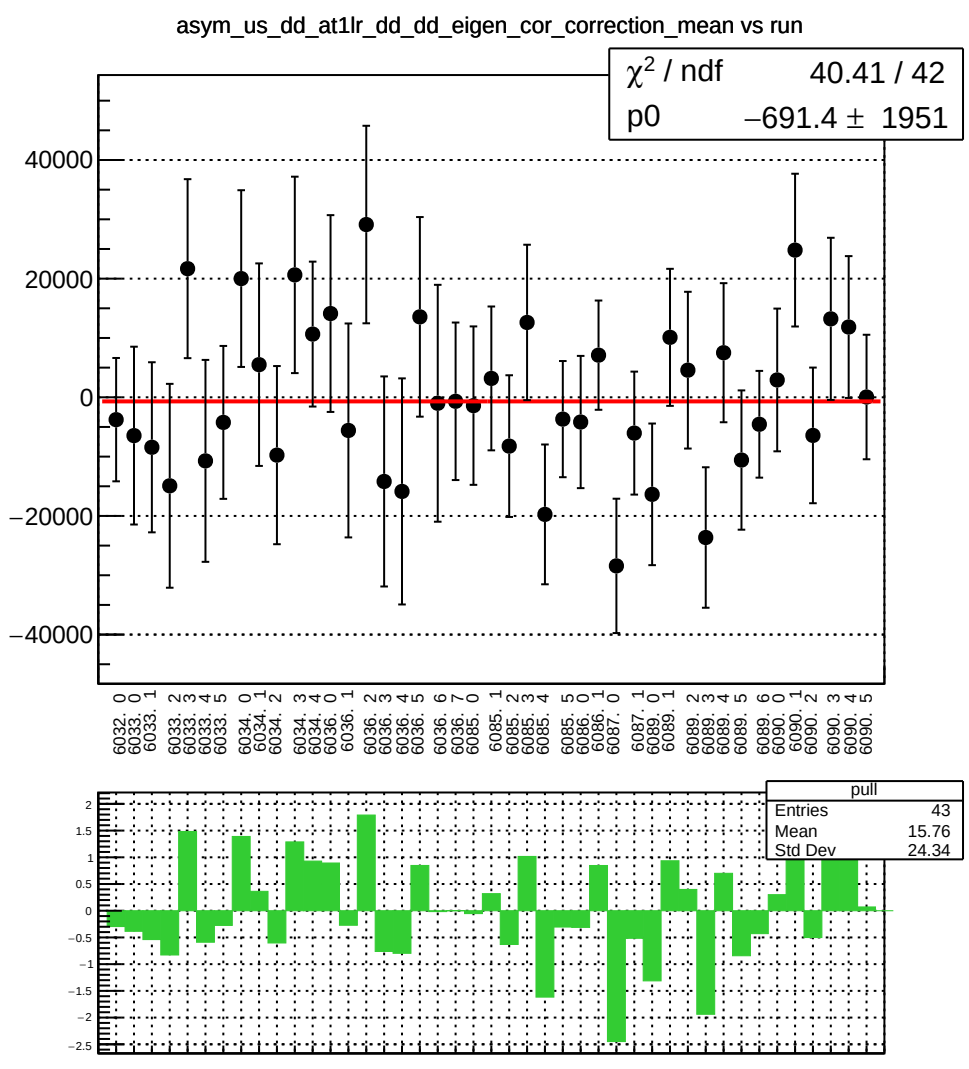

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1206 / 42
p0 1759 ± 1.884
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

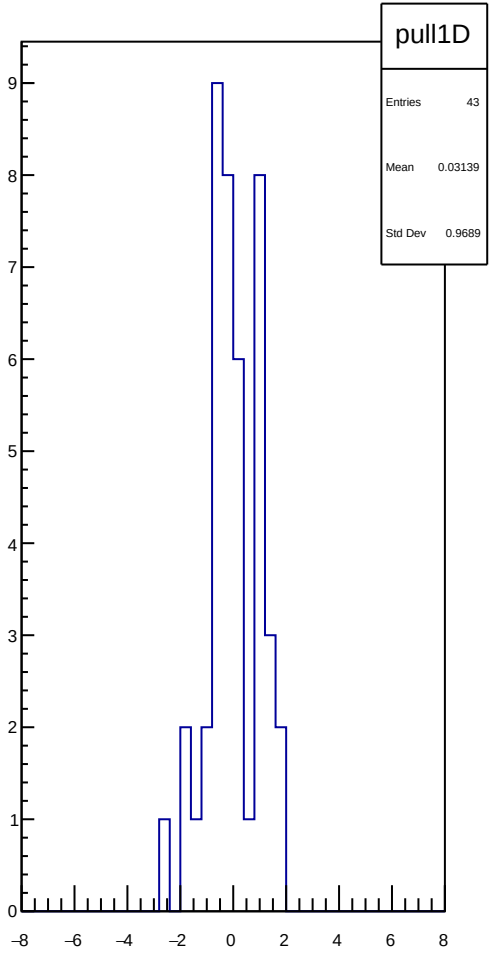

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 40.41 / 42
p0 −691.4 ± 1951
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.76
Std Dev 24.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03139
Std Dev 0.9689
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

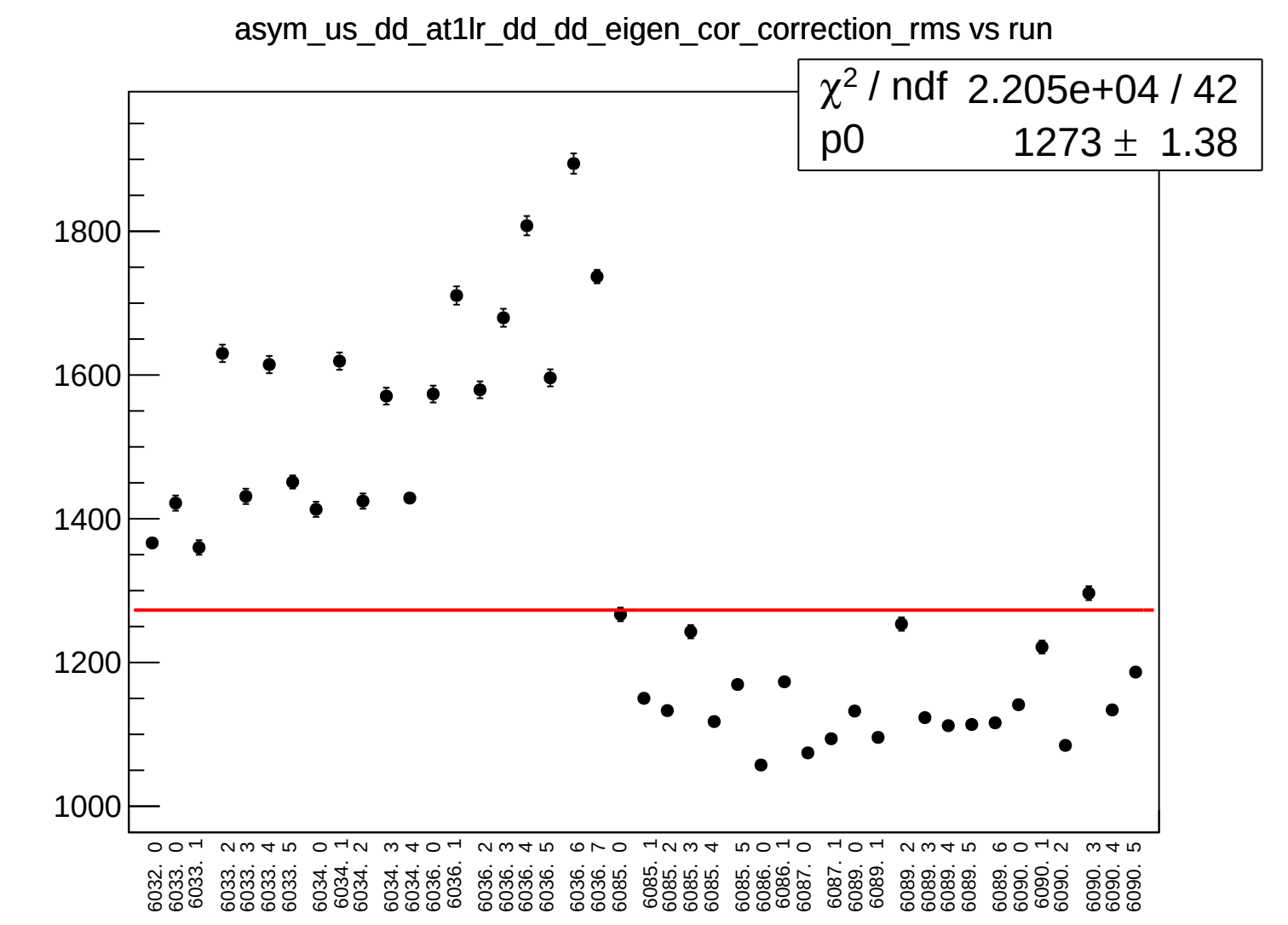

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.205e+04 / 42
p0 1273 ± 1.38
1800
1600
1400
1200
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

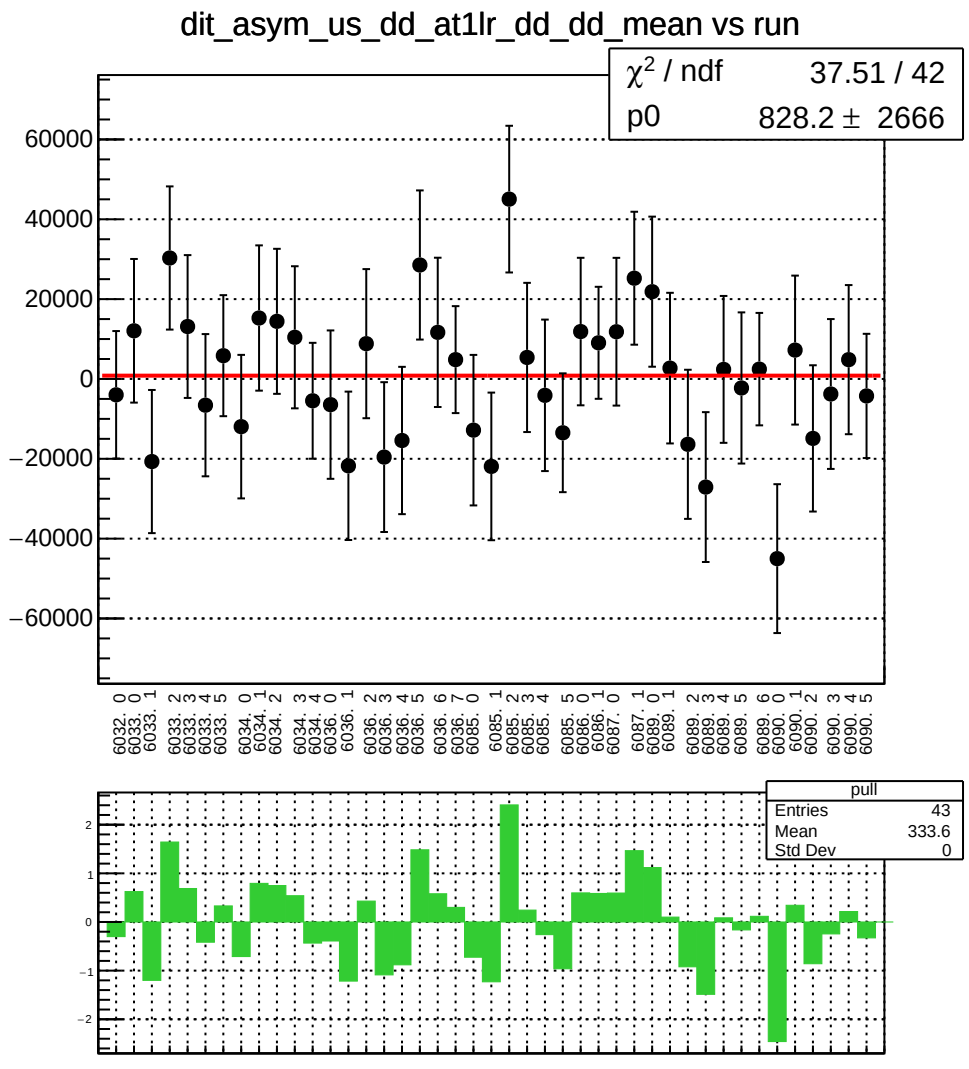

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.79 / 42
p0 819.3 ± 2665
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 366.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.004957
Std Dev 0.9375
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

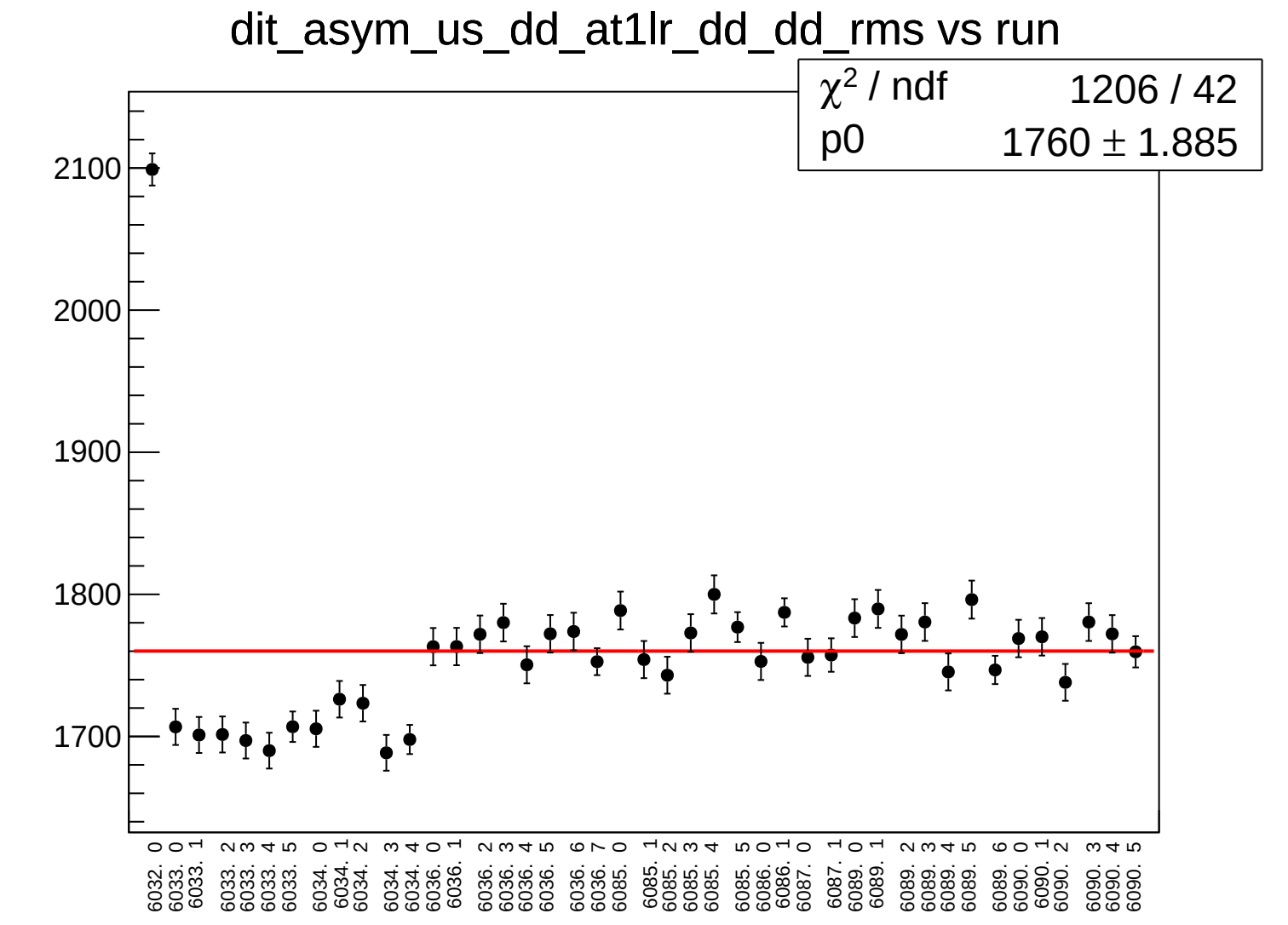

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1206 / 42
p0 1759 ± 1.884
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

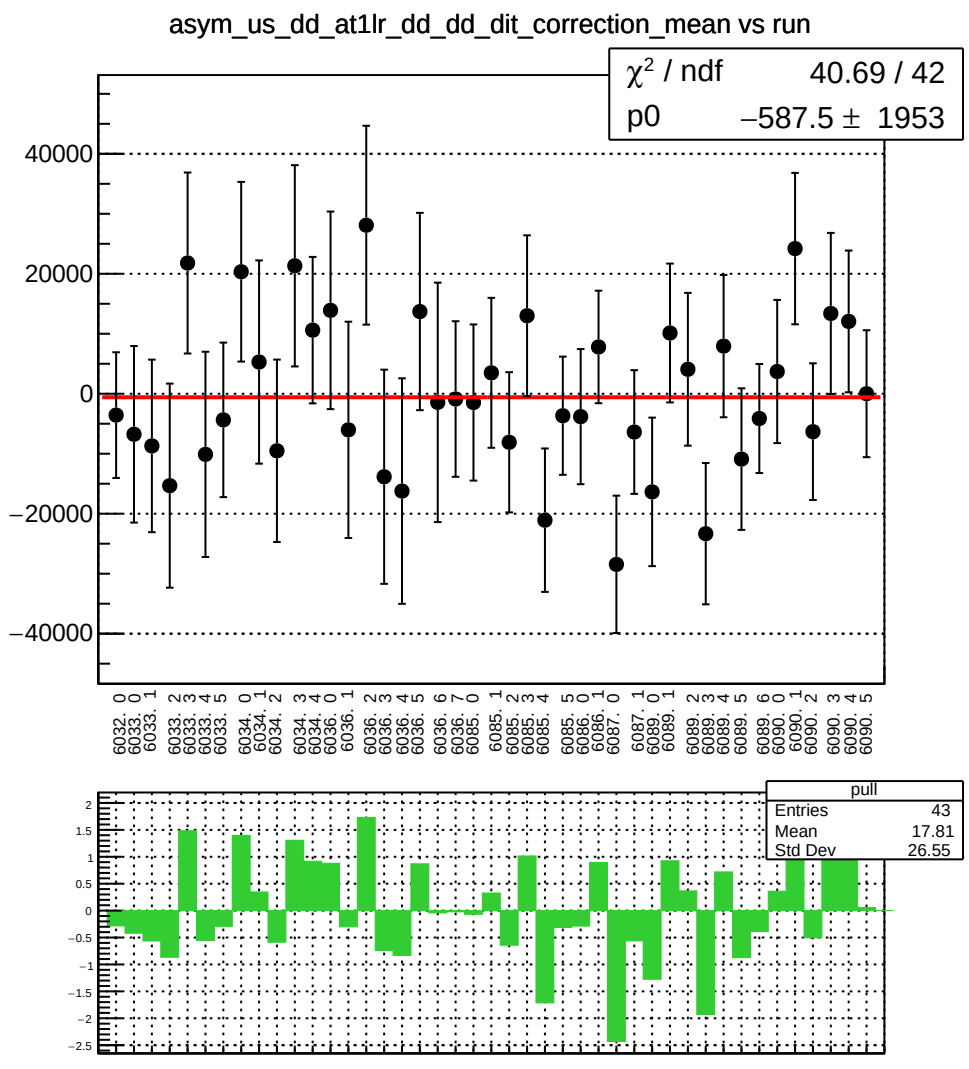

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.41 / 42
p0 −691.4 ± 1951
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.76
Std Dev 24.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

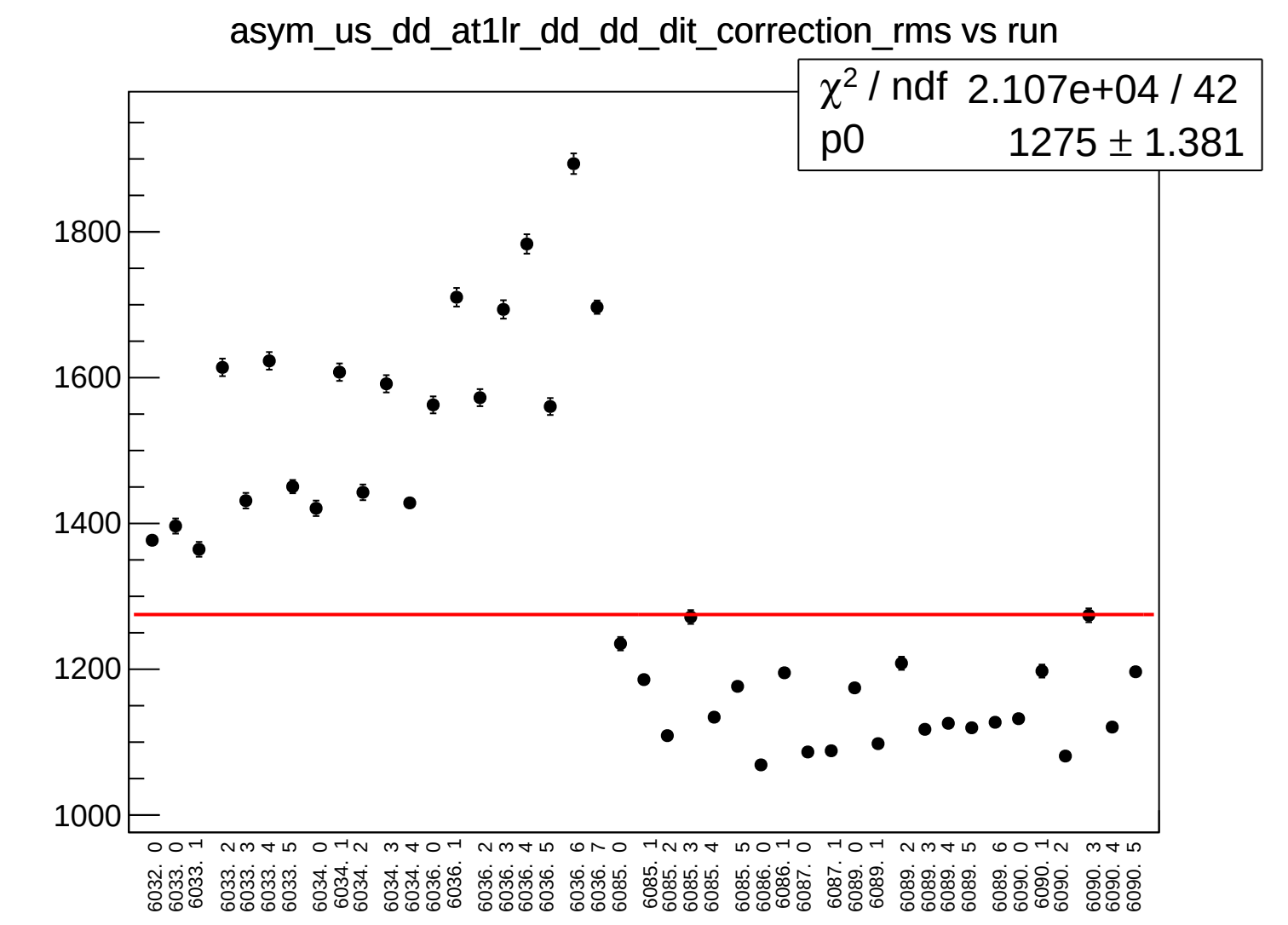

pull1D
Entries 43
Mean 0.03139
Std Dev 0.9689
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

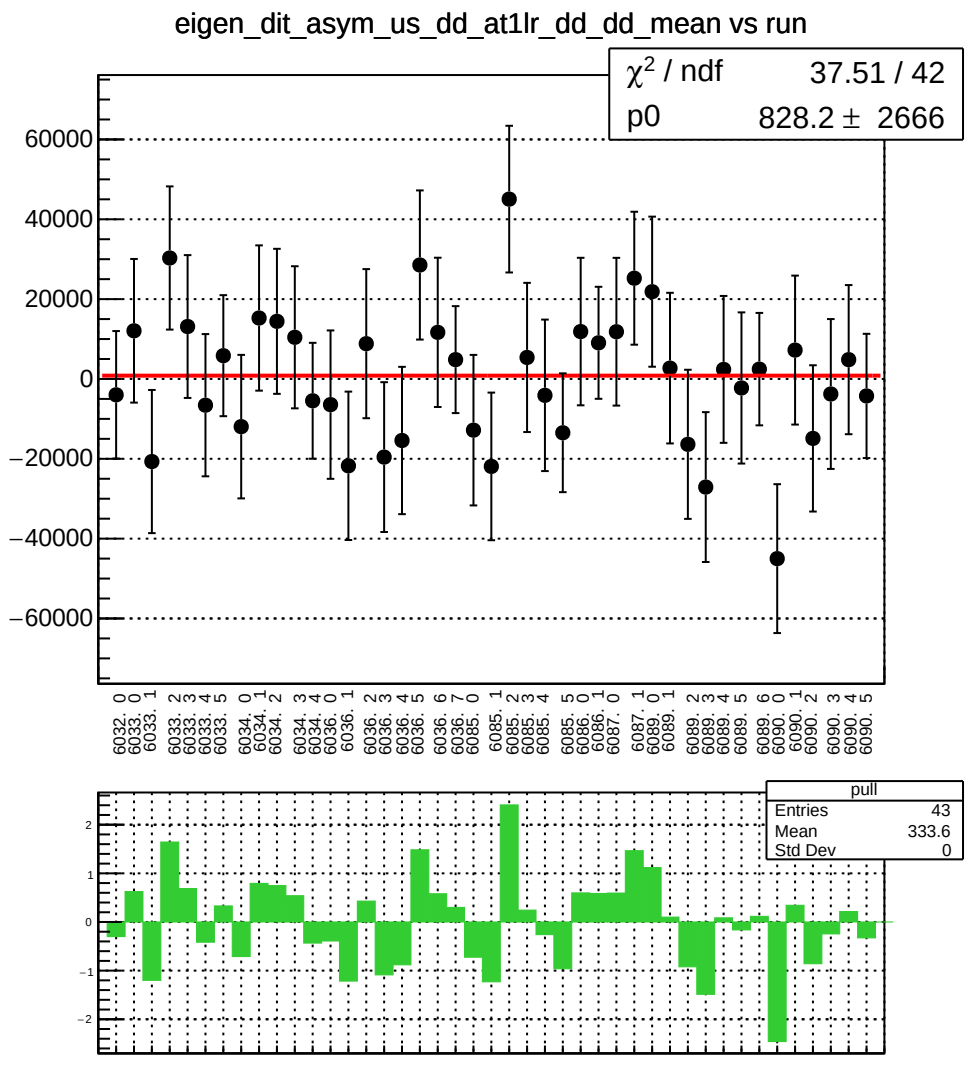

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.205e+04 / 42
p0 1273 ± 1.38
1800
1600
1400
1200
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

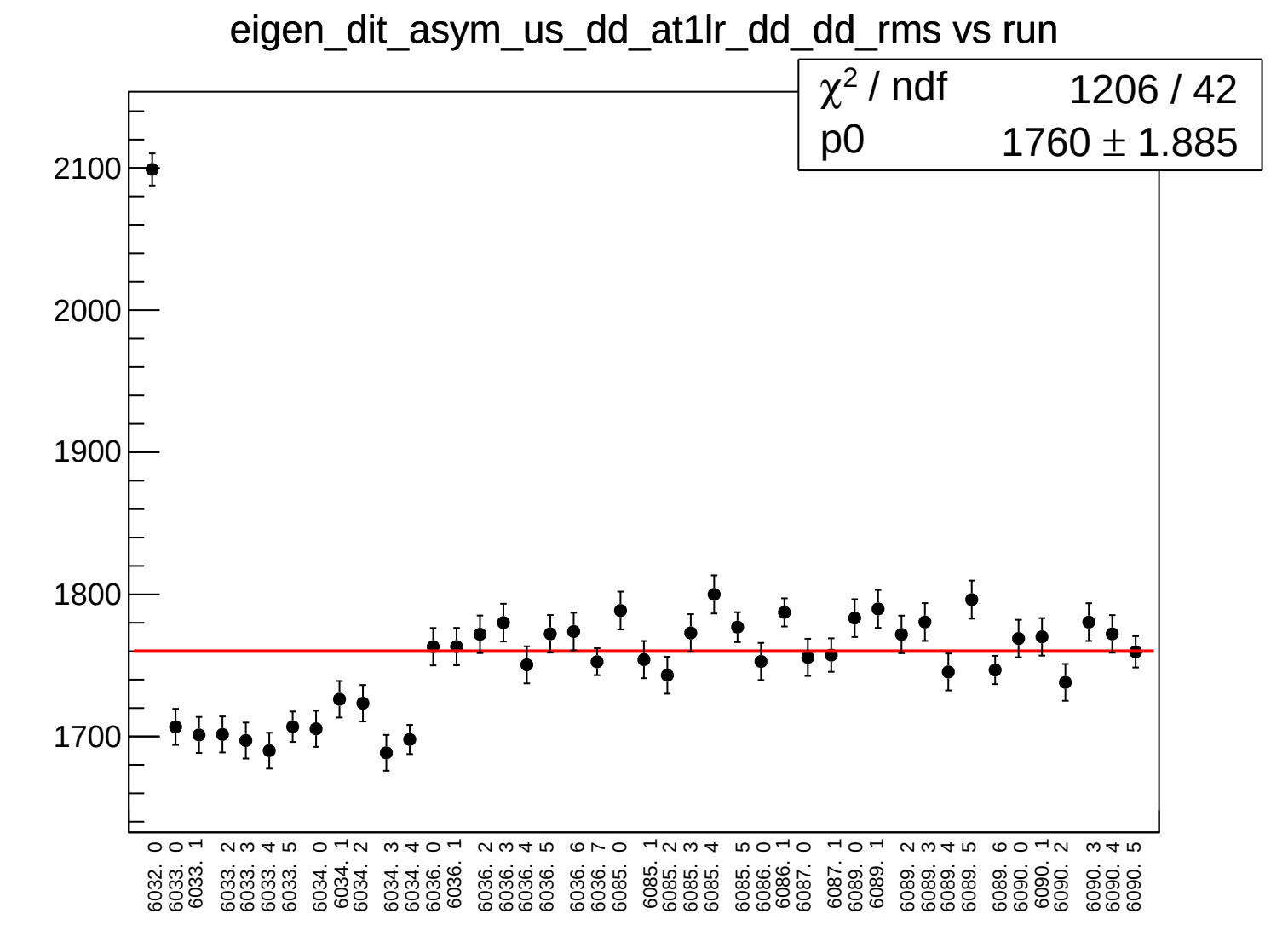

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.51 / 42
p0 828.2 ± 2666
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 333.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005376
Std Dev 0.934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

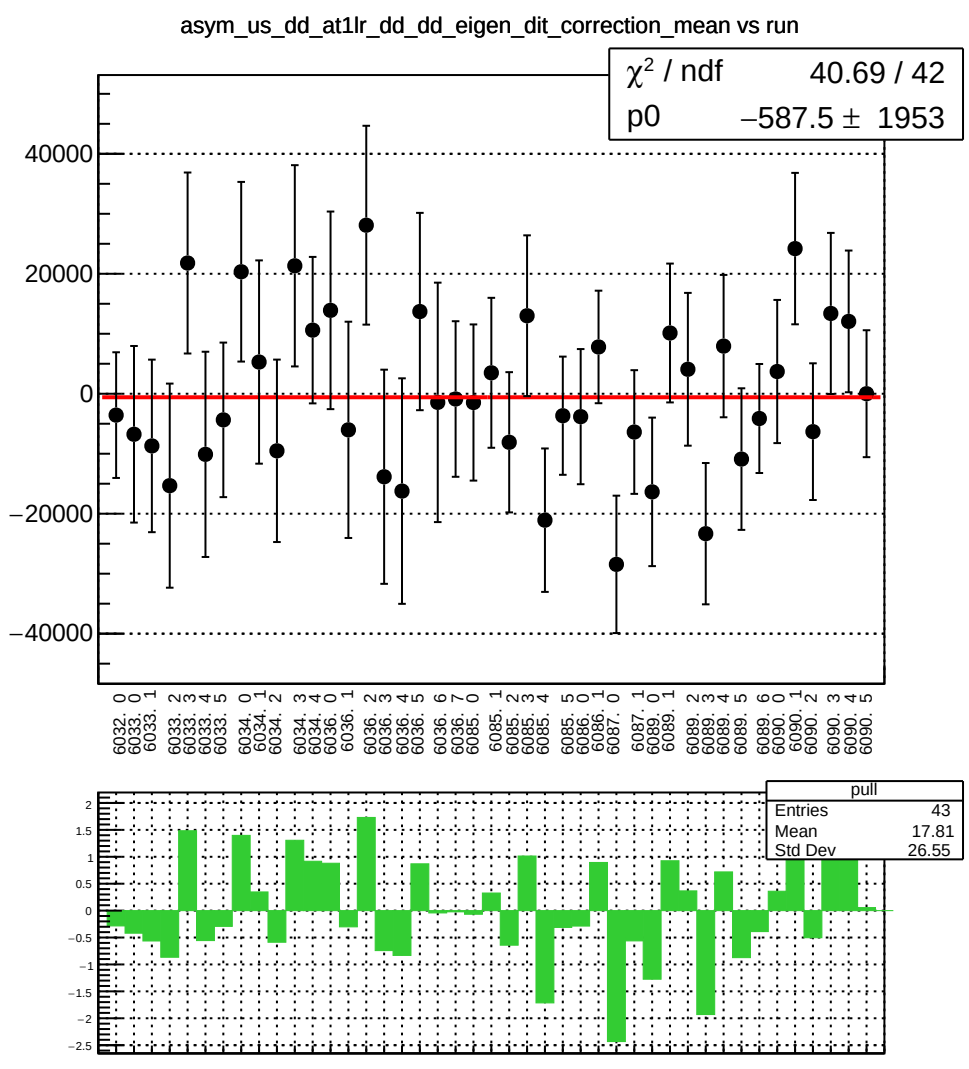

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1206 / 42
p0 1760 ± 1.885
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

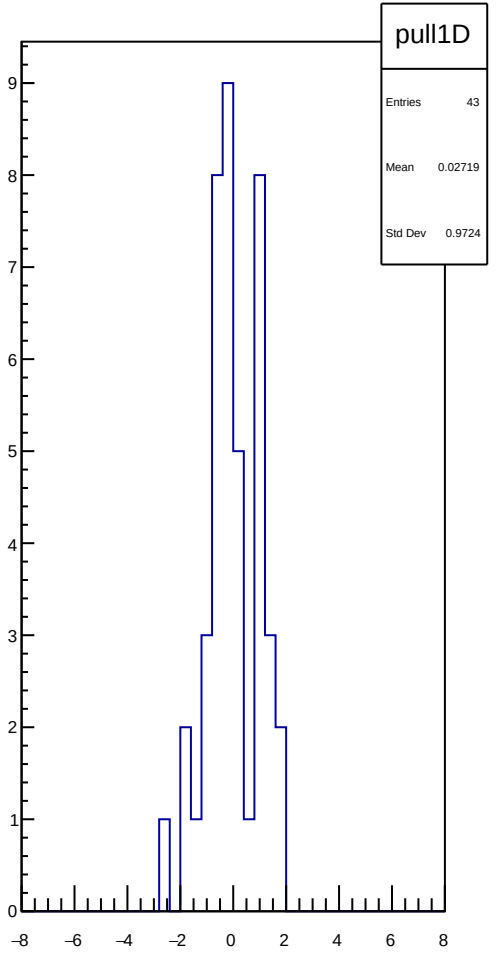

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 40.69 / 42
p0 −587.5 ± 1953
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.81
Std Dev 26.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02719
Std Dev 0.9724
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

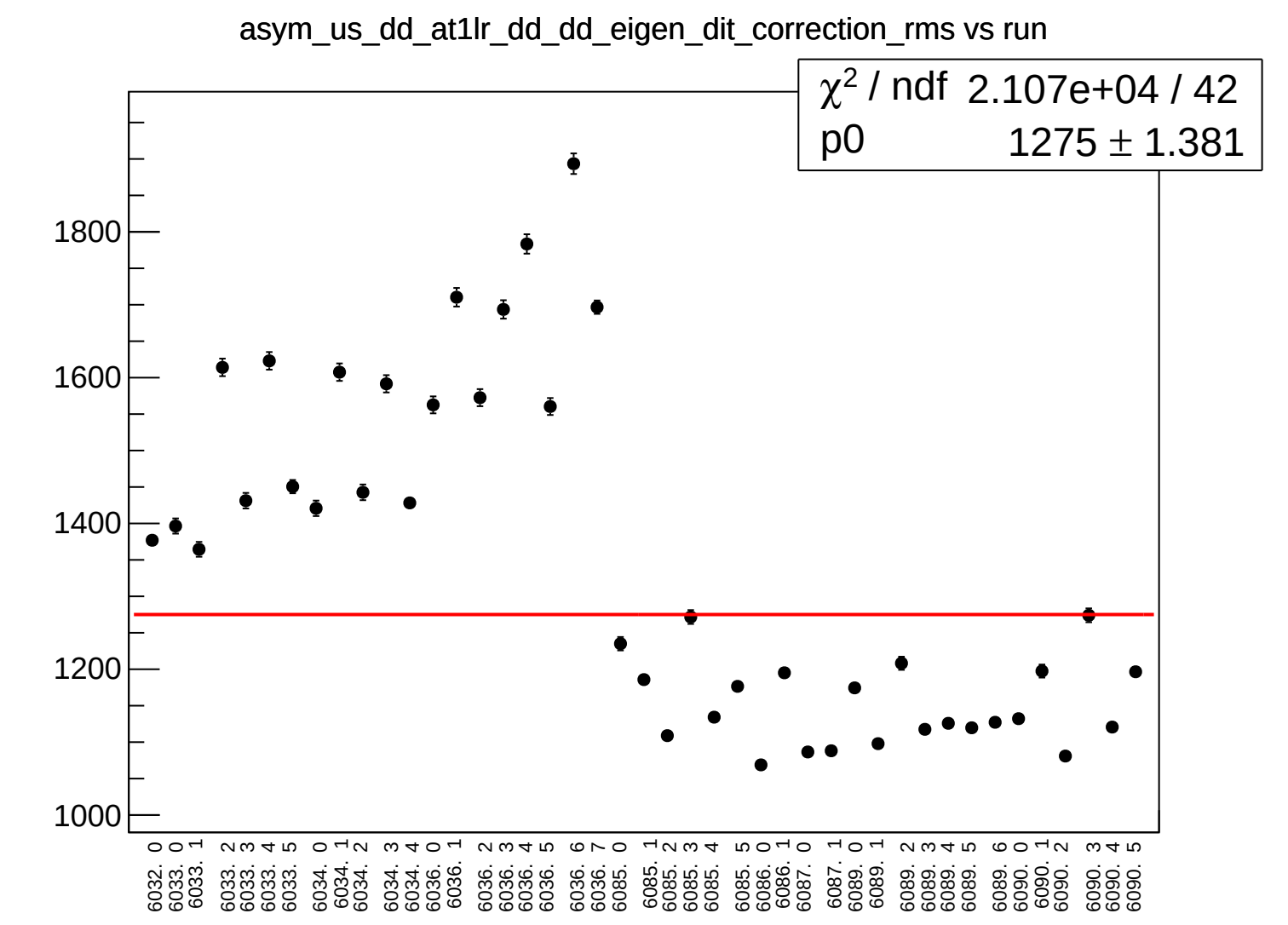

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.107e+04 / 42
p0 1275 ± 1.381
1800
1600
1400
1200
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

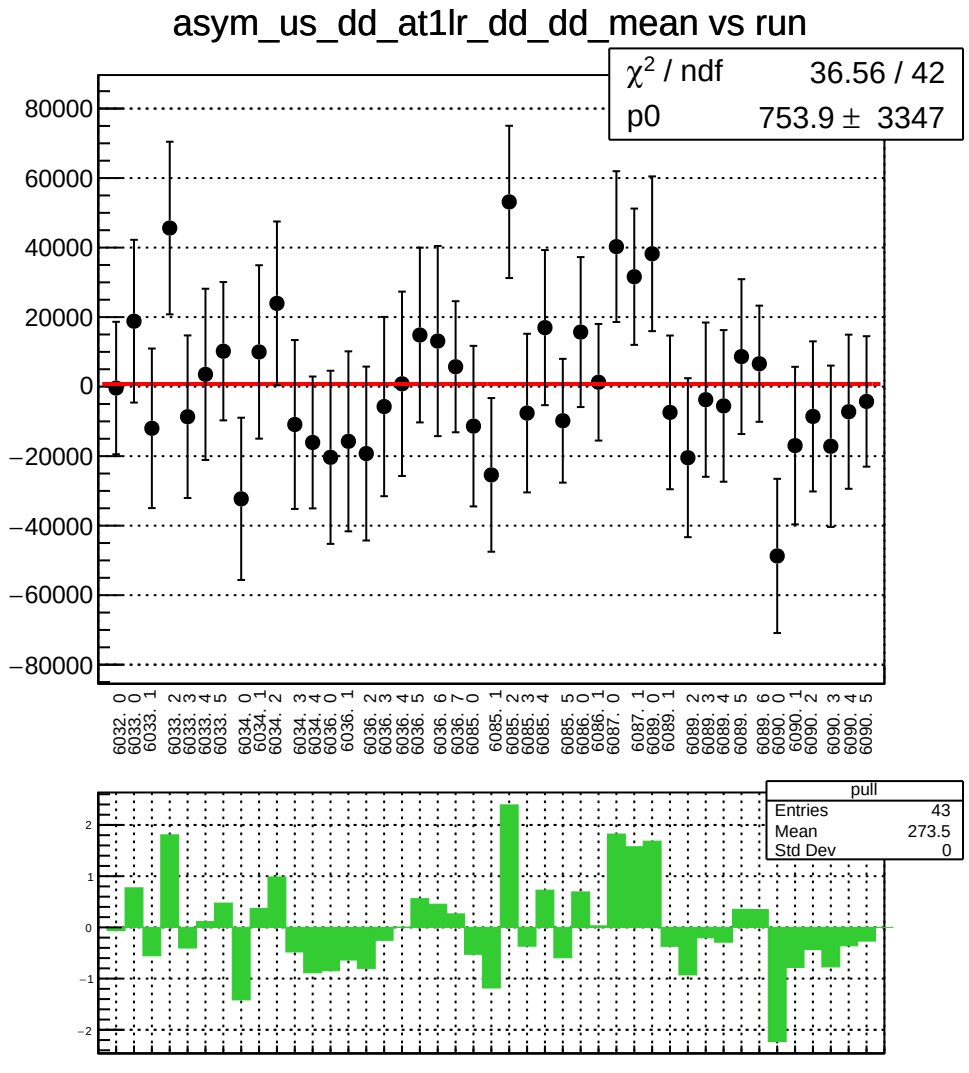

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 37.51 / 42
p0 828.2 ± 2666
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 333.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005376
Std Dev 0.934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

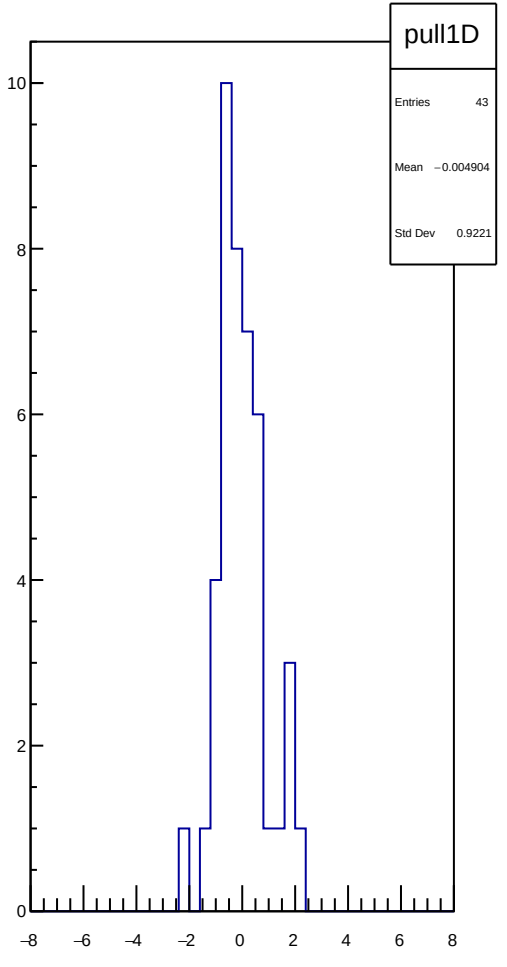

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1206 / 42
p0 1760 ± 1.885
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

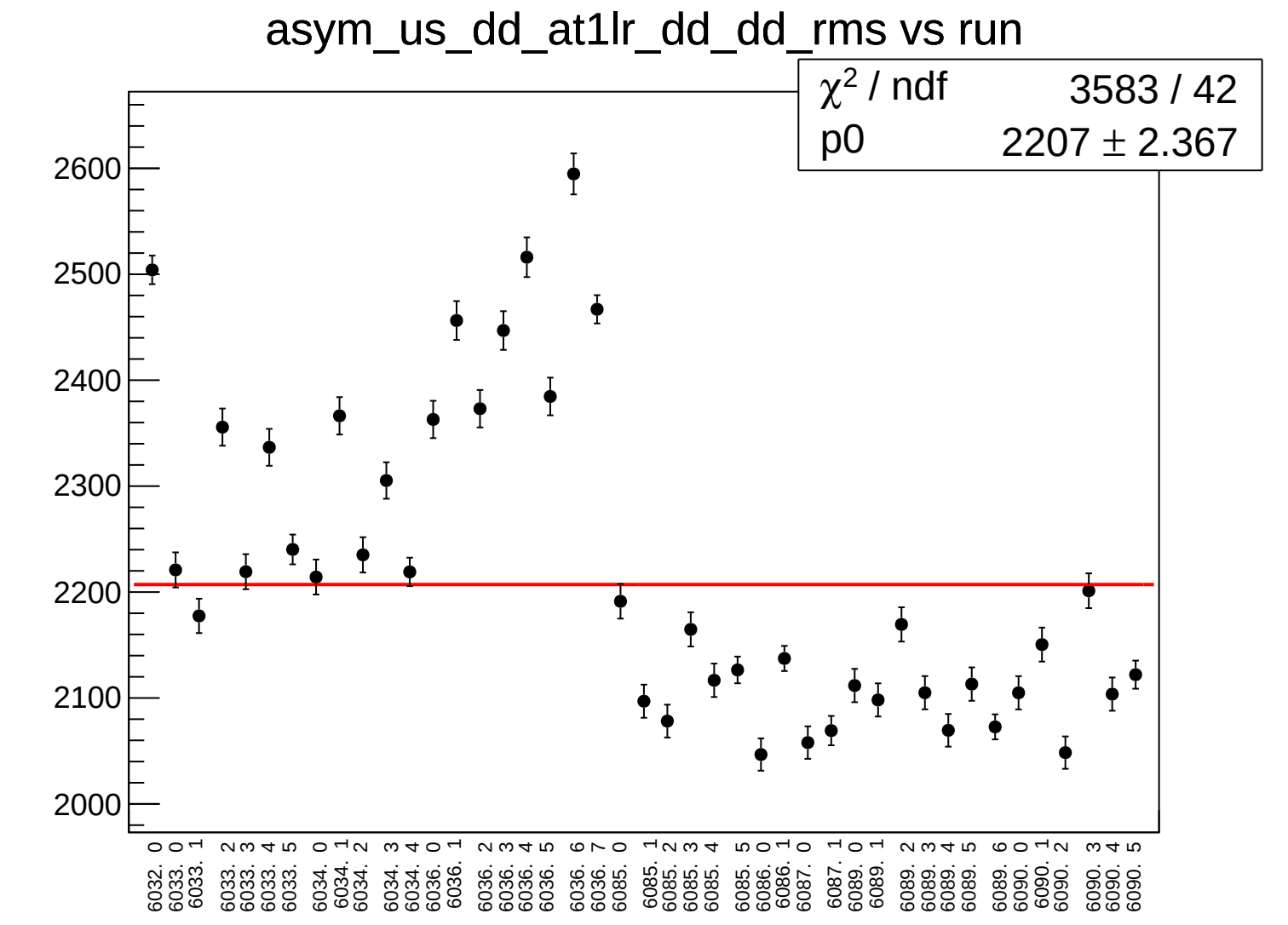

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.69 / 42
p0 −587.5 ± 1953
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.81
Std Dev 26.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

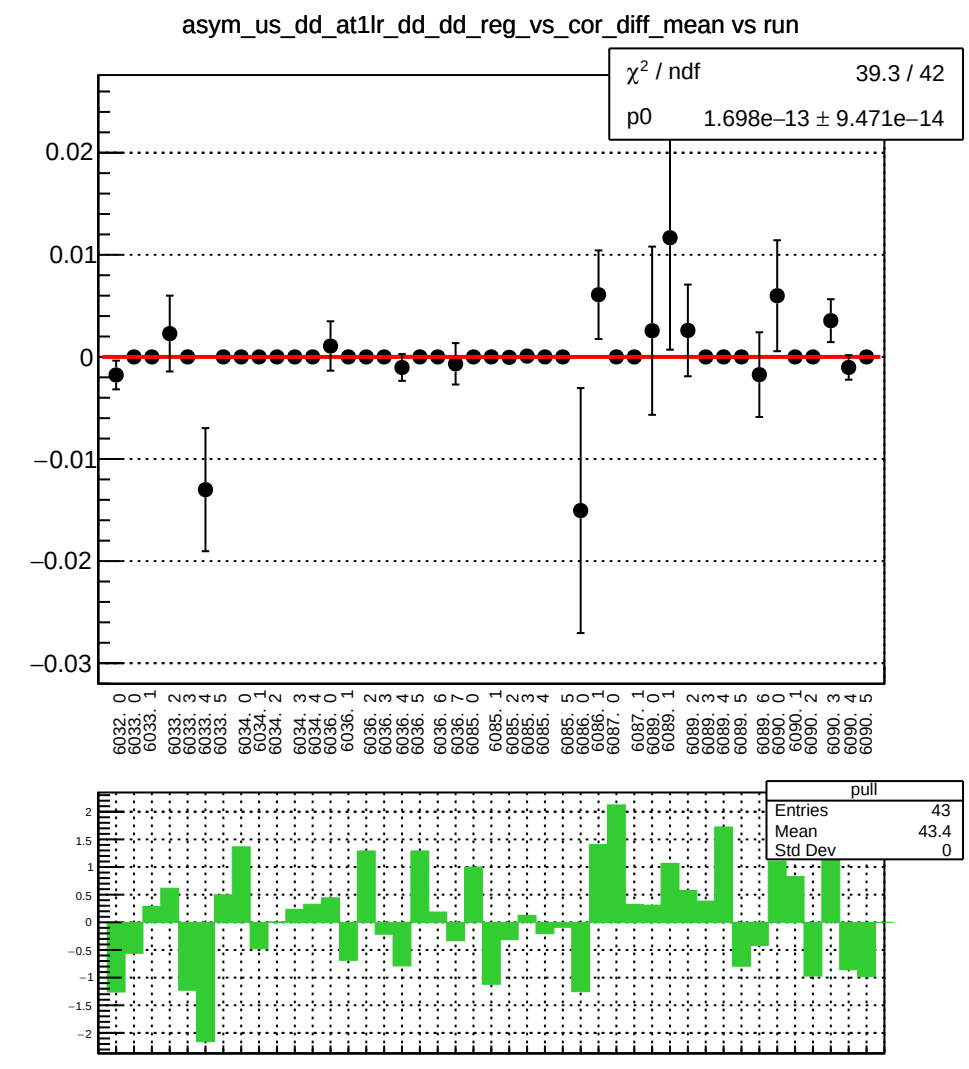

pull1D
Entries 43
Mean 0.02719
Std Dev 0.9724
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

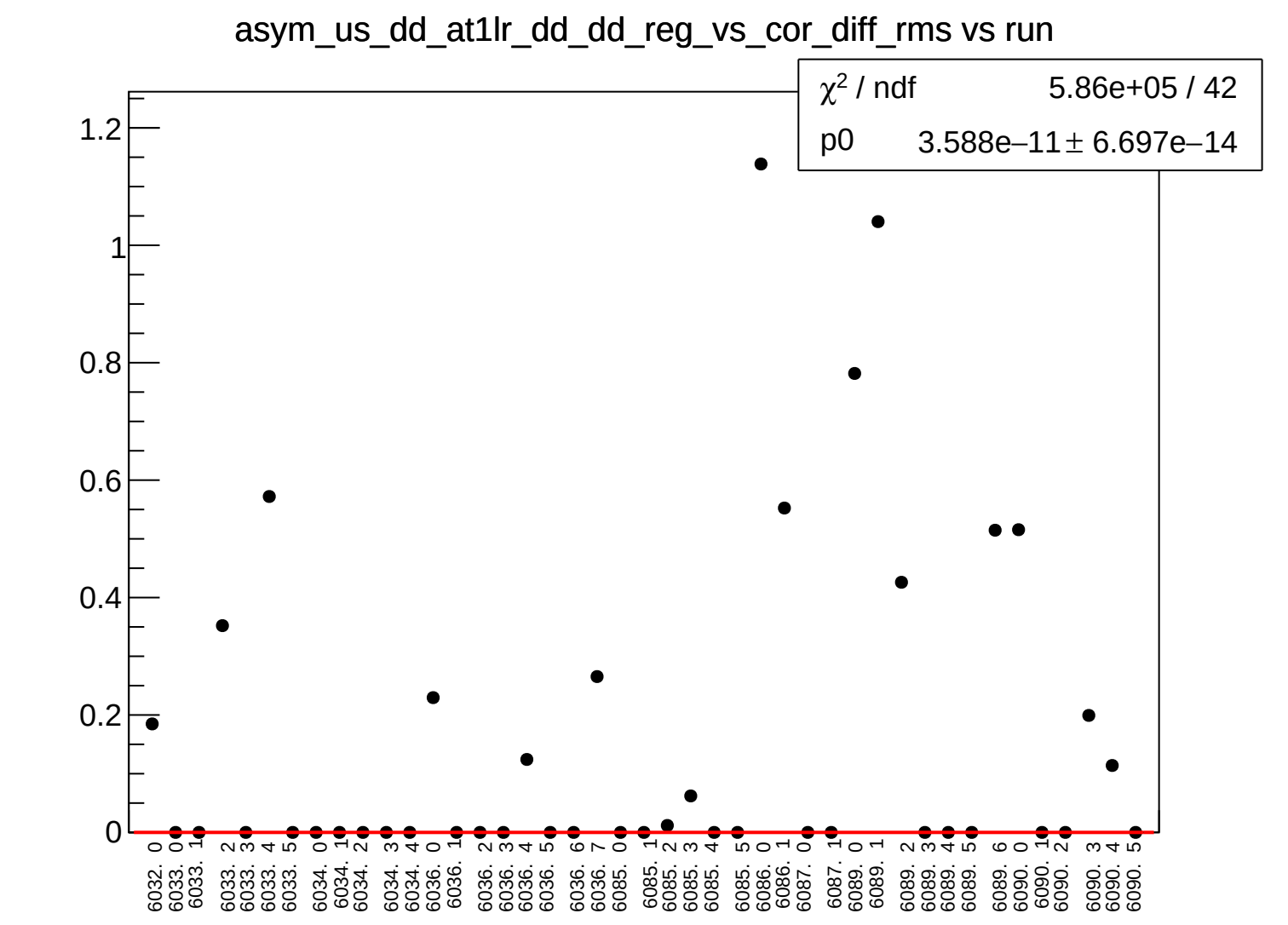

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.107e+04 / 42
p0 1275 ± 1.381
1800
1600
1400
1200
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

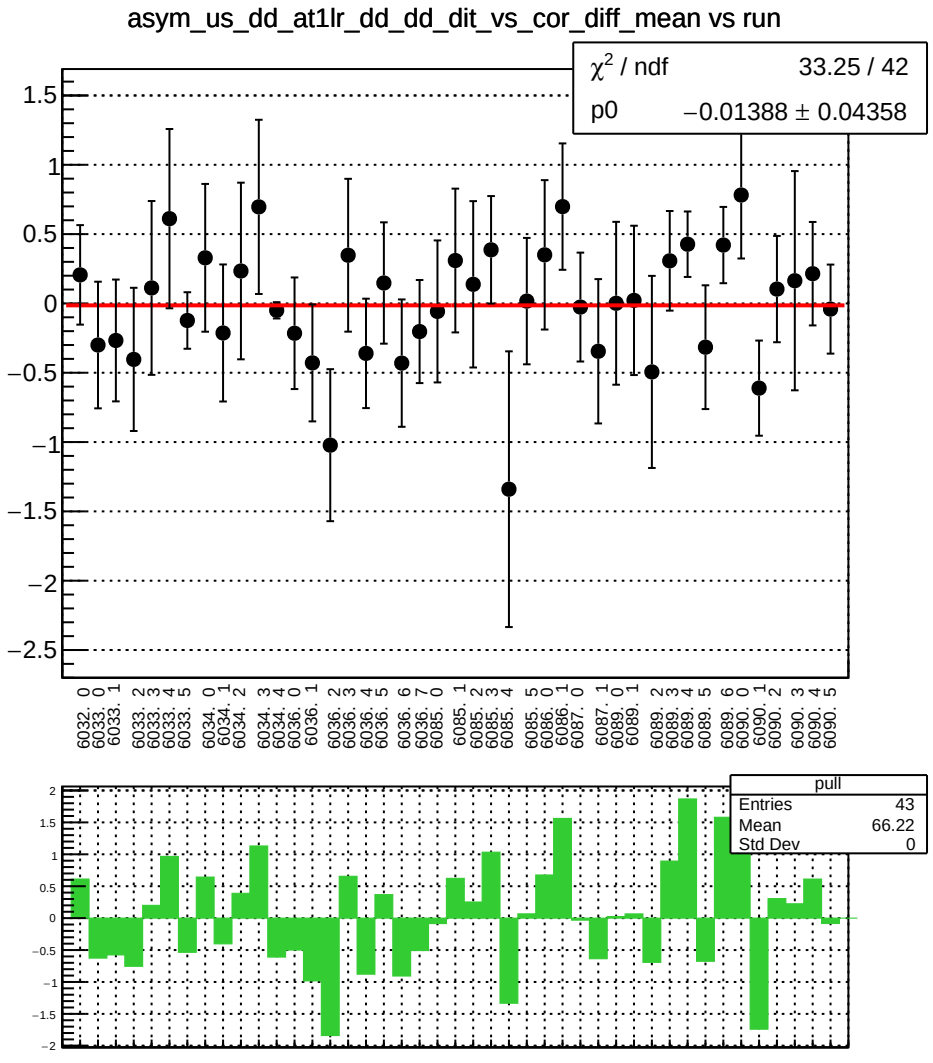

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 36.56 / 42
p0 753.9 ± 3347
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 273.5
Std Dev 0
2
1
0
−1
−2

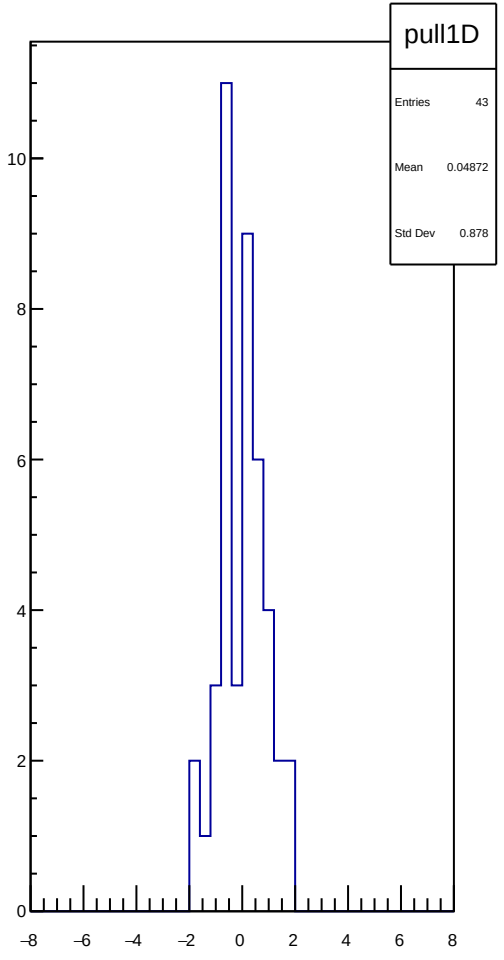

pull1D
Entries 43
Mean −0.004904
Std Dev 0.9221
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

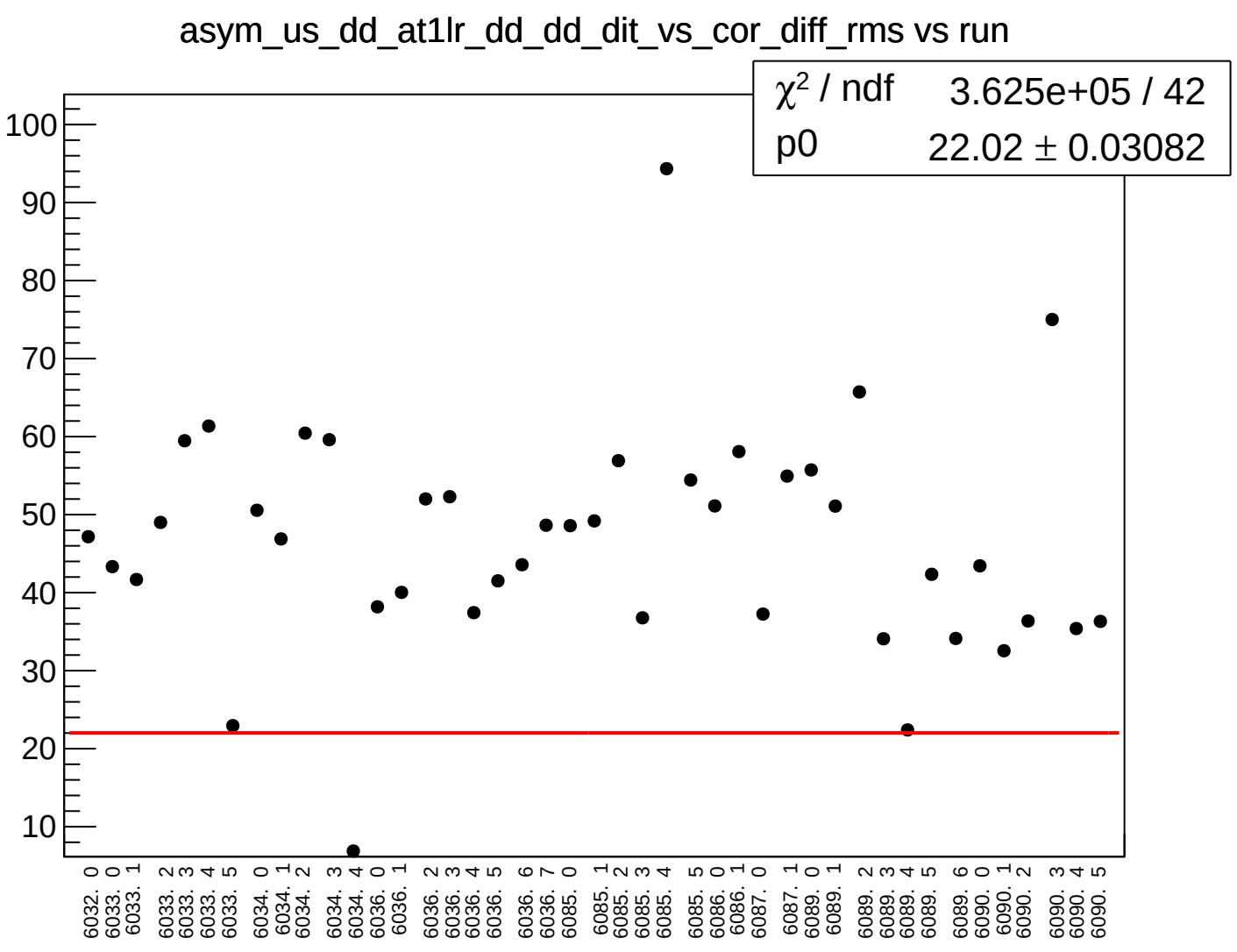

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 3583 / 42
p0 2207 ± 2.367
2600
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

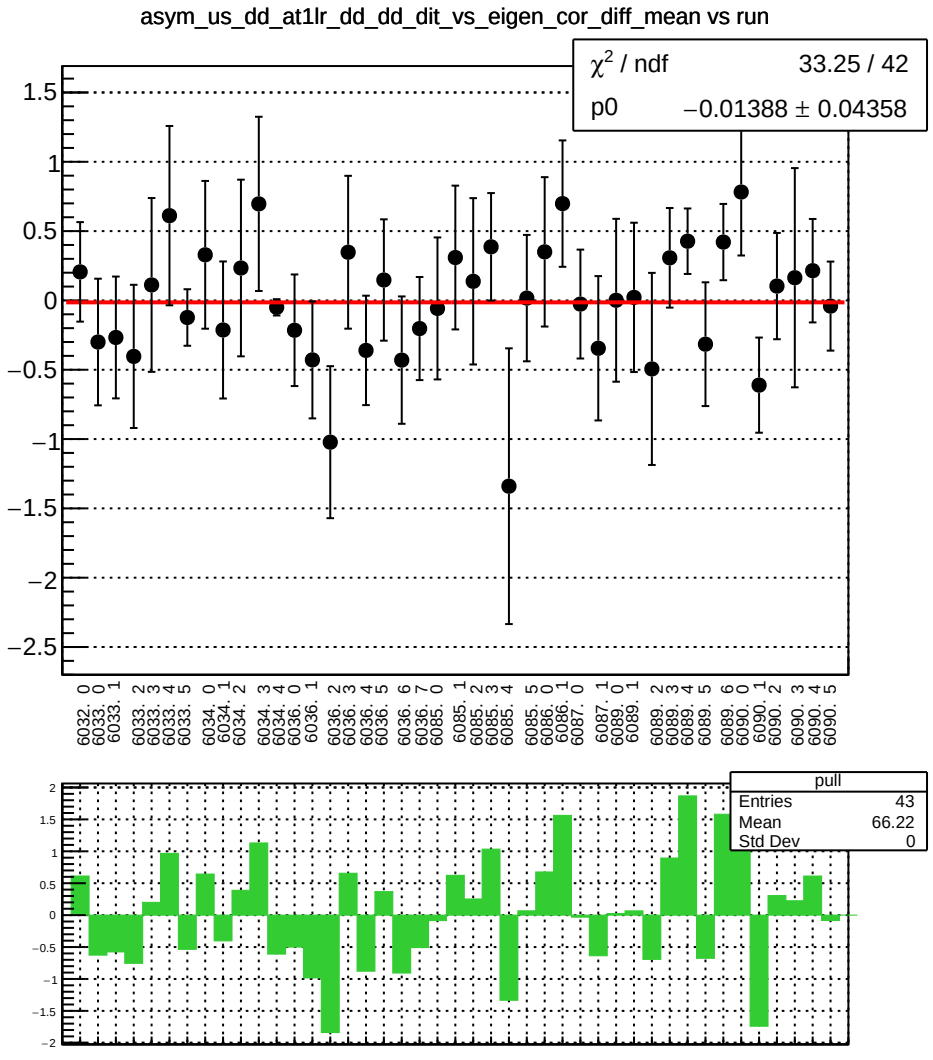

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.3 / 42
p0 1.698e−13 ± 9.471e−14
0.02
0.01
0
−0.01
−0.02
−0.03
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 43.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1047
Std Dev 0.9503
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

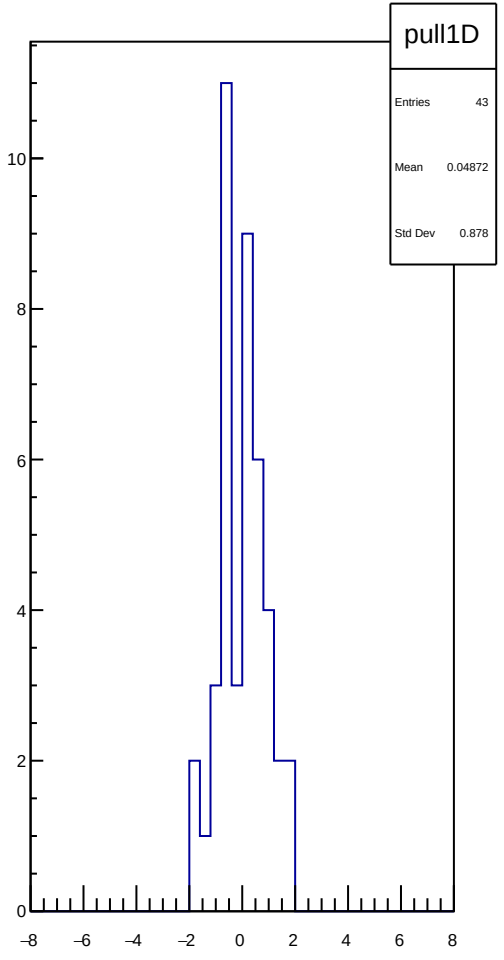

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.86e+05 / 42
p0 3.588e−11 ± 6.697e−14
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

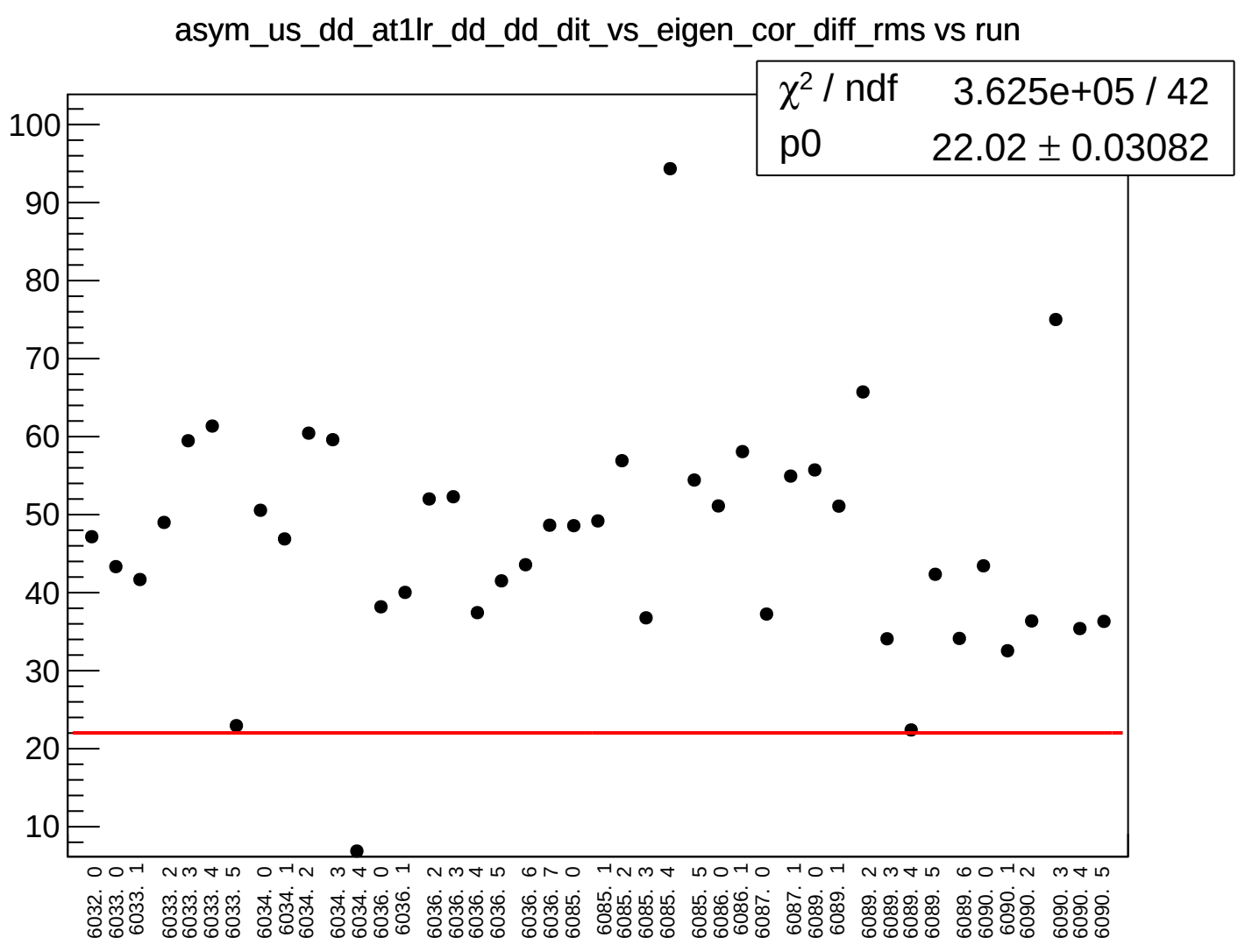

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.25 / 42
p0 −0.01388 ± 0.04358
pull
Entries 43
Mean 66.22
Std Dev 0

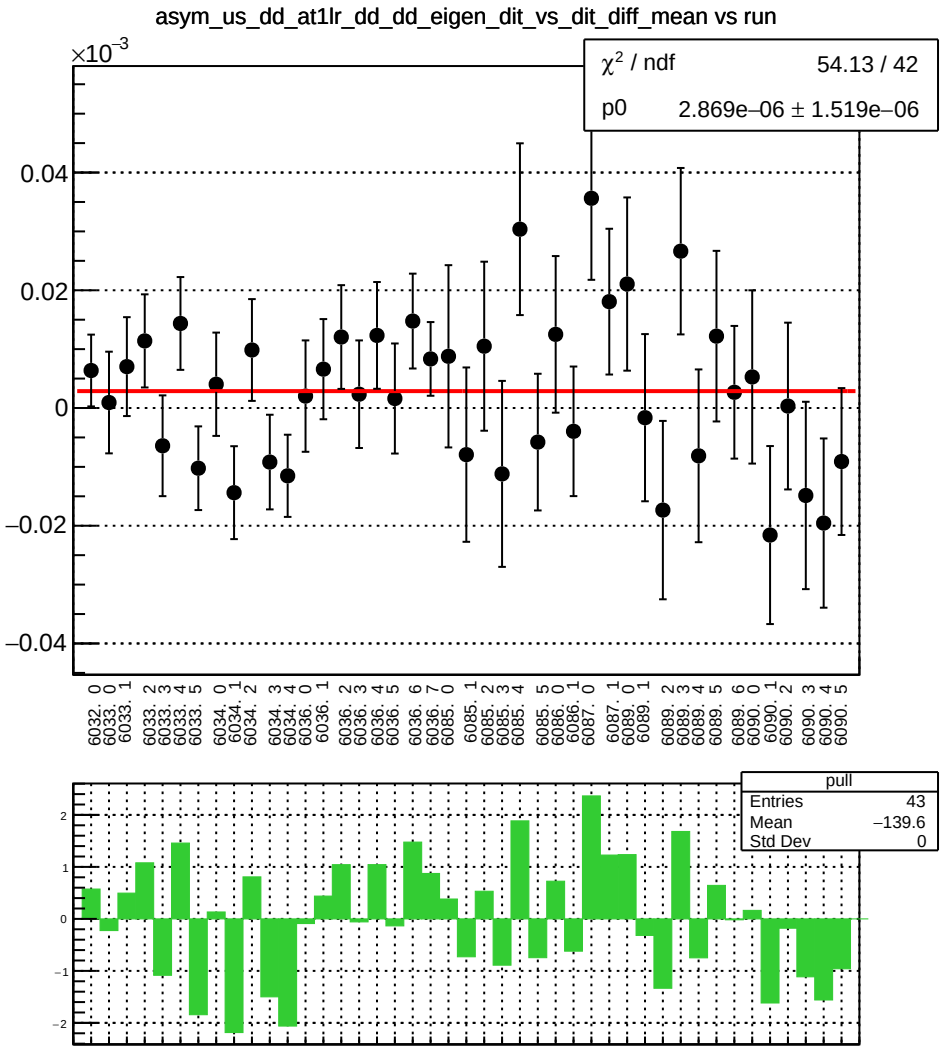

pull1D
Entries 43
Mean 0.04872
Std Dev 0.878

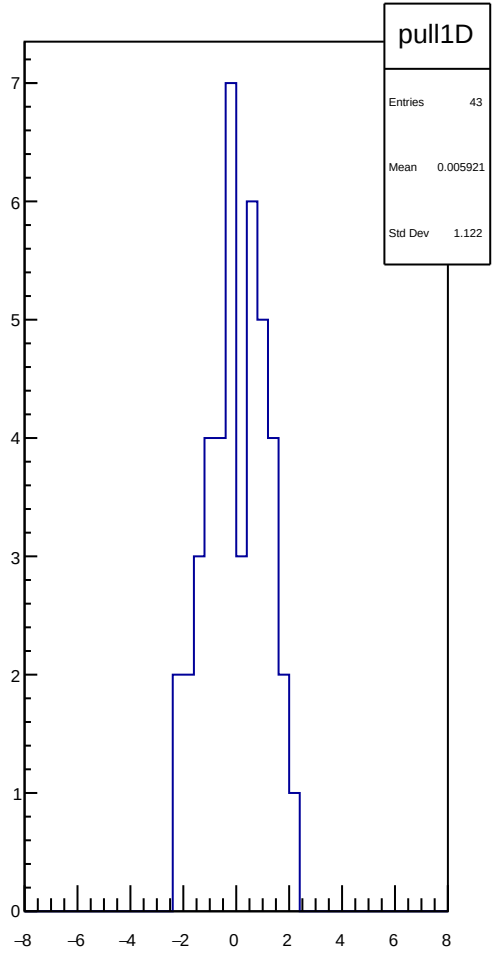

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.625e+05 / 42
p0 22.02 ± 0.03082
100
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

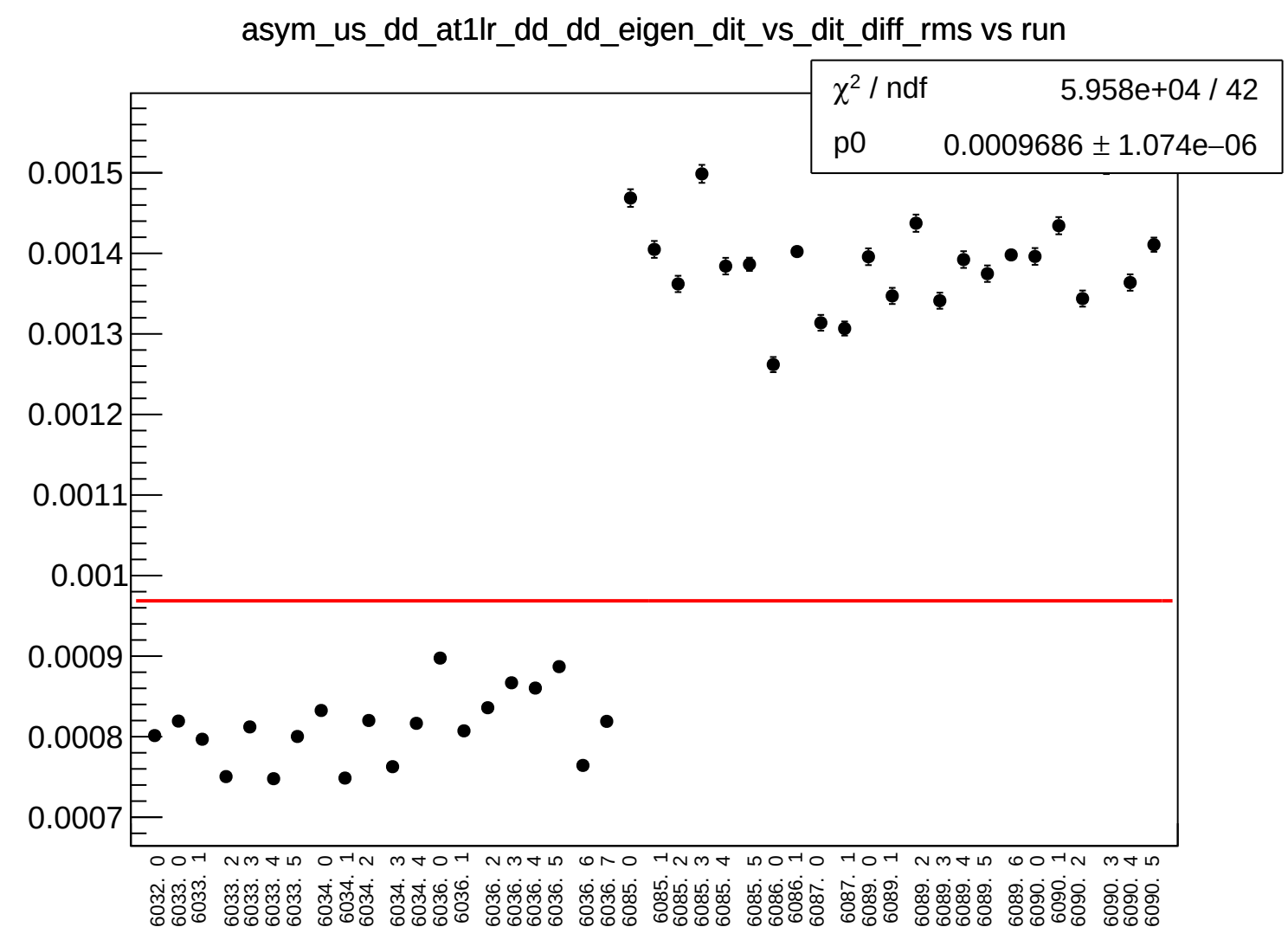

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.25 / 42
p0 −0.01388 ± 0.04358
pull
Entries 43
Mean 66.22
Std Dev 0

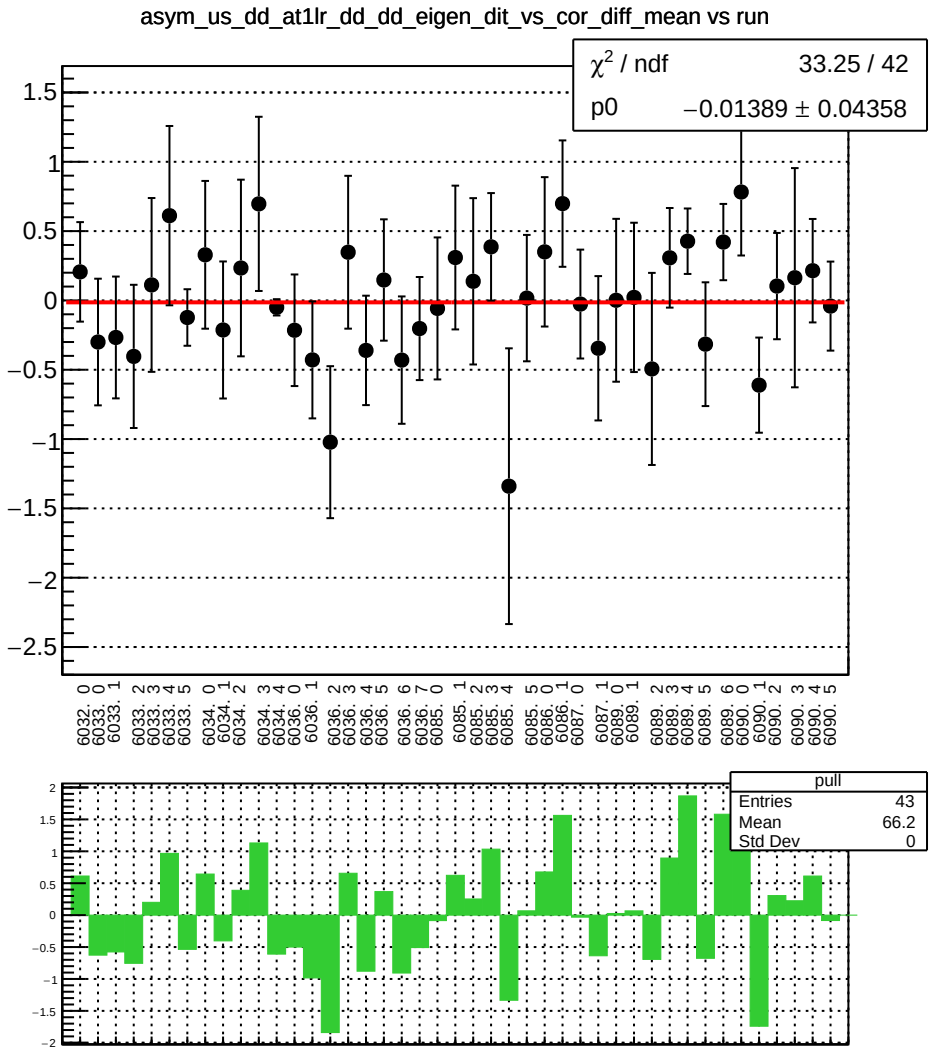

pull1D
Entries 43
Mean 0.04872
Std Dev 0.878

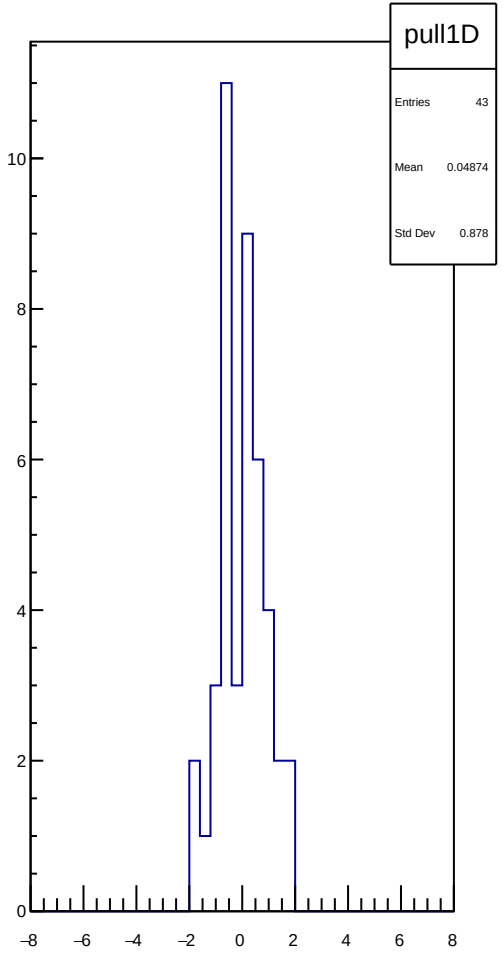

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+05 / 42
p0 22.02 ± 0.03082
100
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

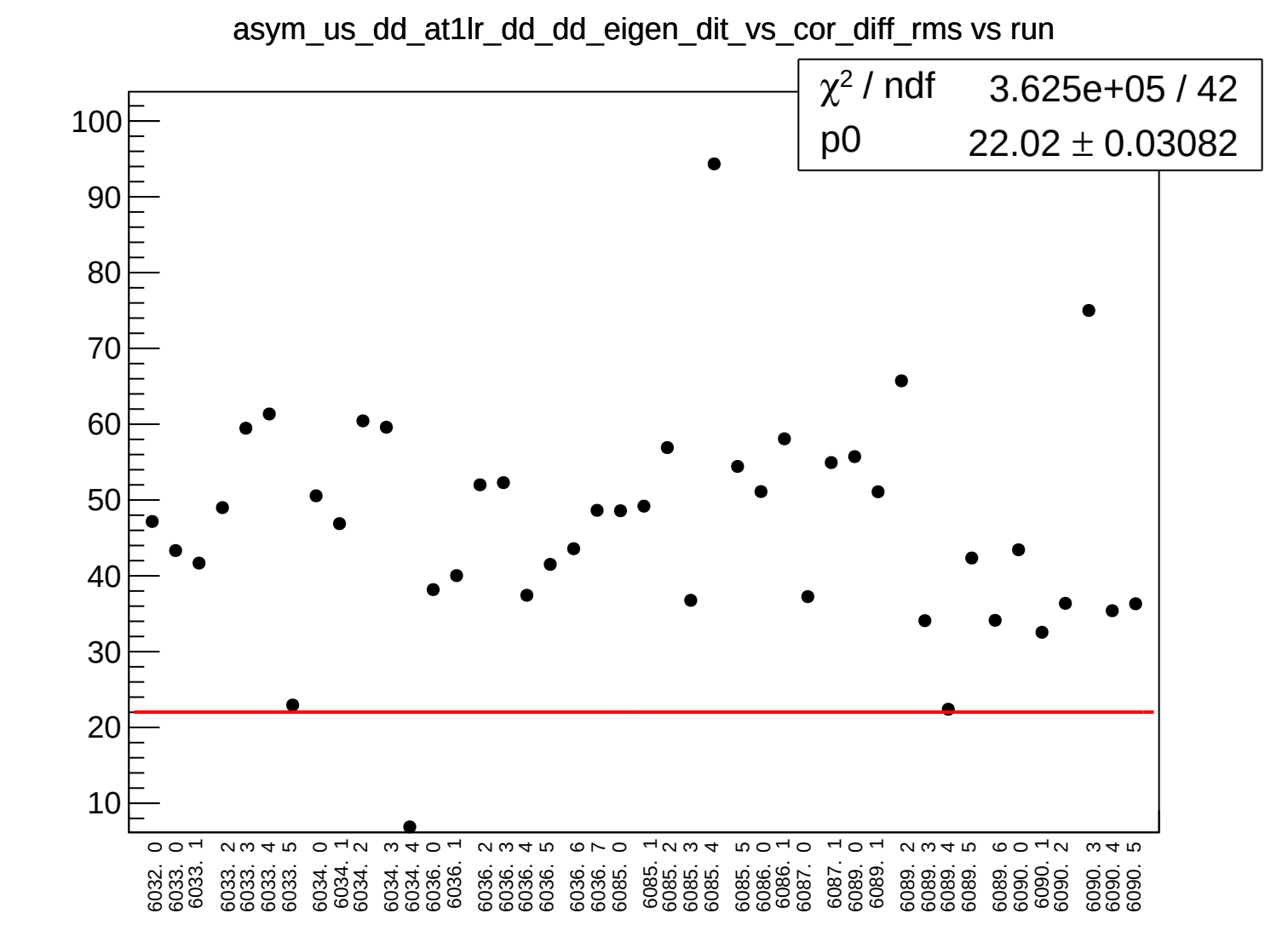

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.13 / 42
p0 2.869e−06 ± 1.519e−06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −139.6
Std Dev 0
2
1
0
−1
−2

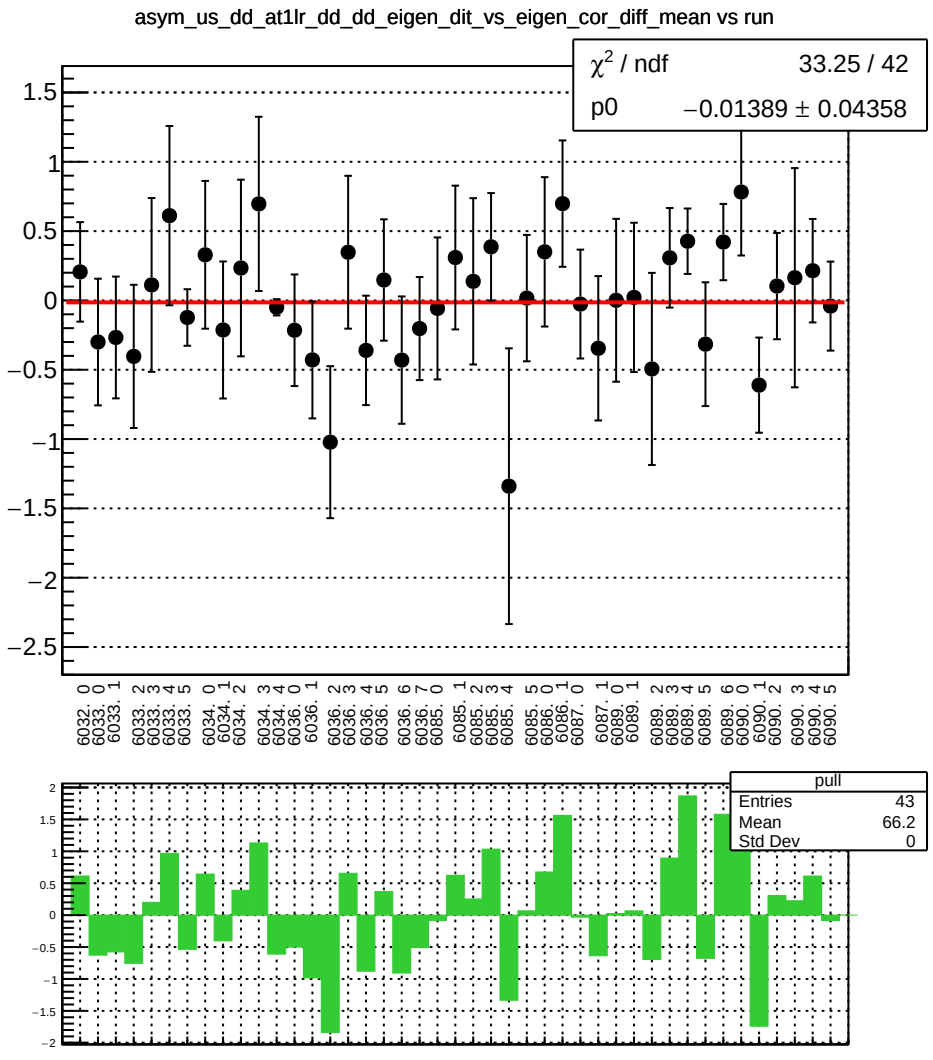

pull1D
Entries 43
Mean 0.005921
Std Dev 1.122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

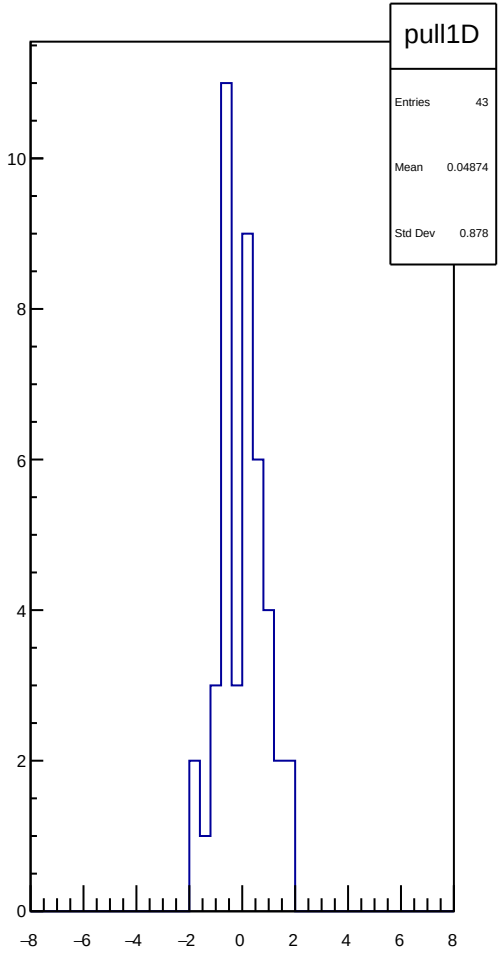

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.958e+04 / 42
p0 0.0009686 ± 1.074e−06
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

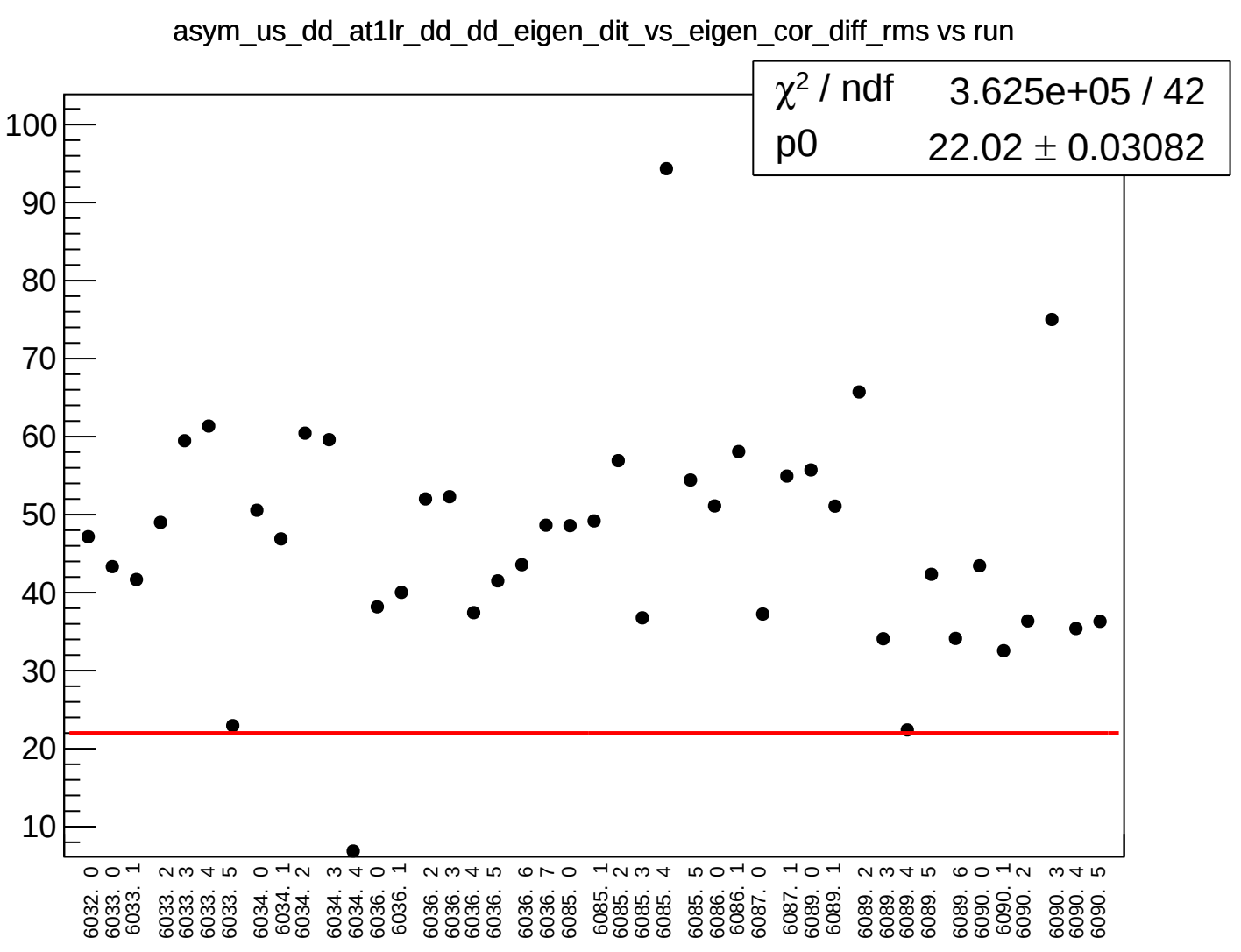

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.25 / 42
p0 −0.01389 ± 0.04358
pull
Entries 43
Mean 66.2
Std Dev 0

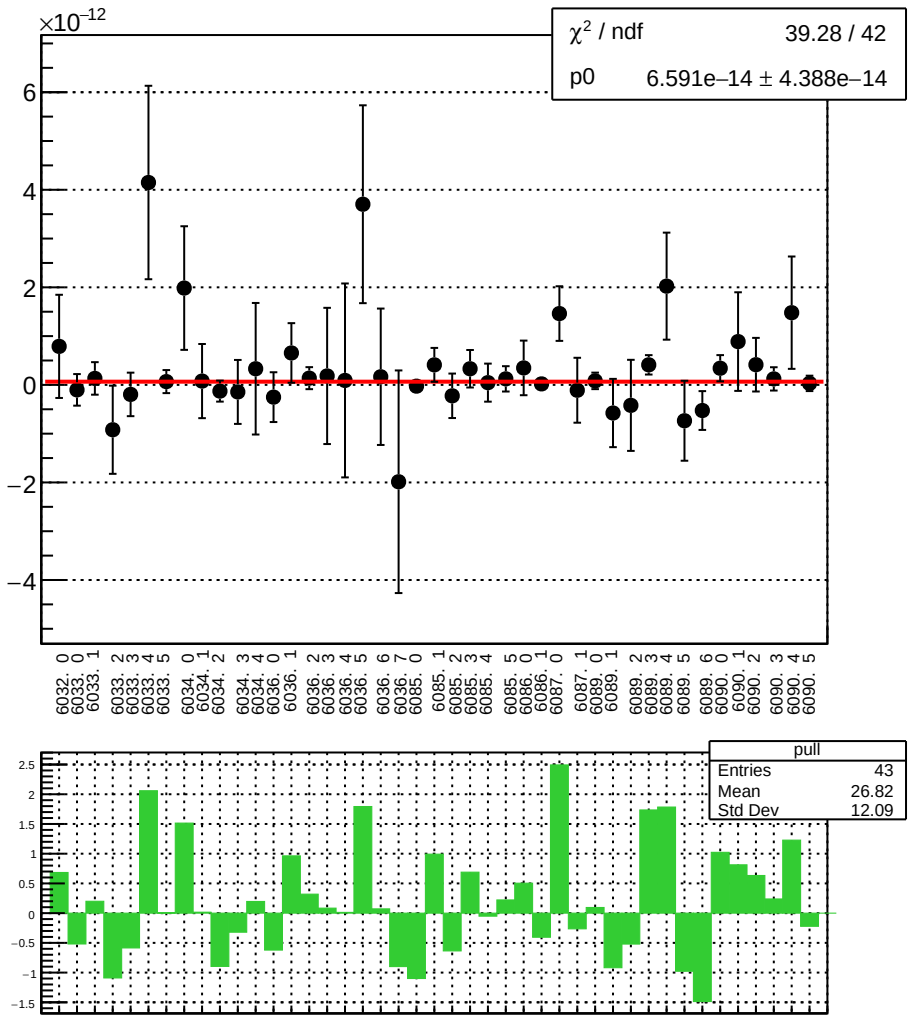

pull1D
Entries 43
Mean 0.04874
Std Dev 0.878

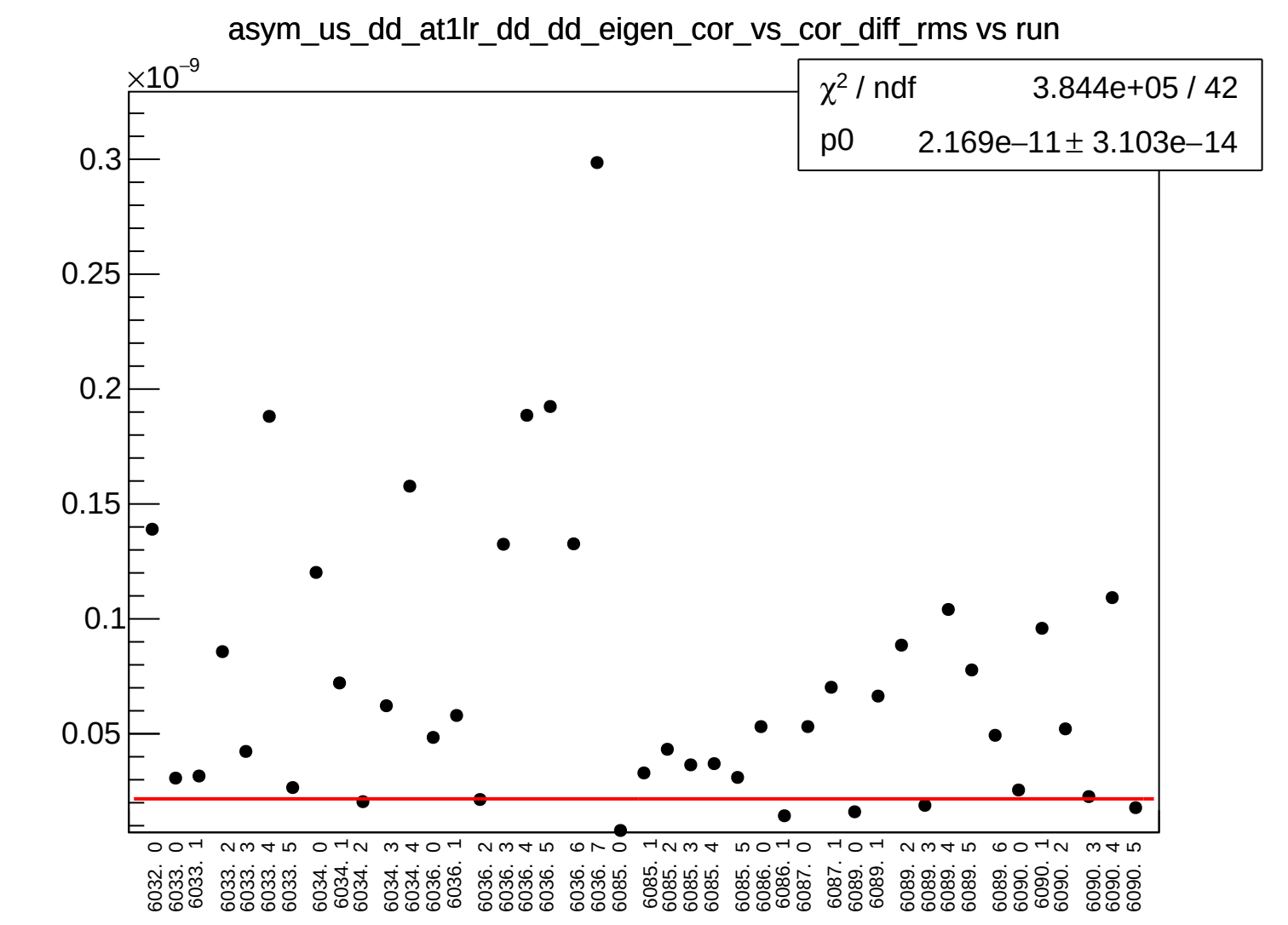

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.625e+05 / 42
p0 22.02 ± 0.03082
100
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

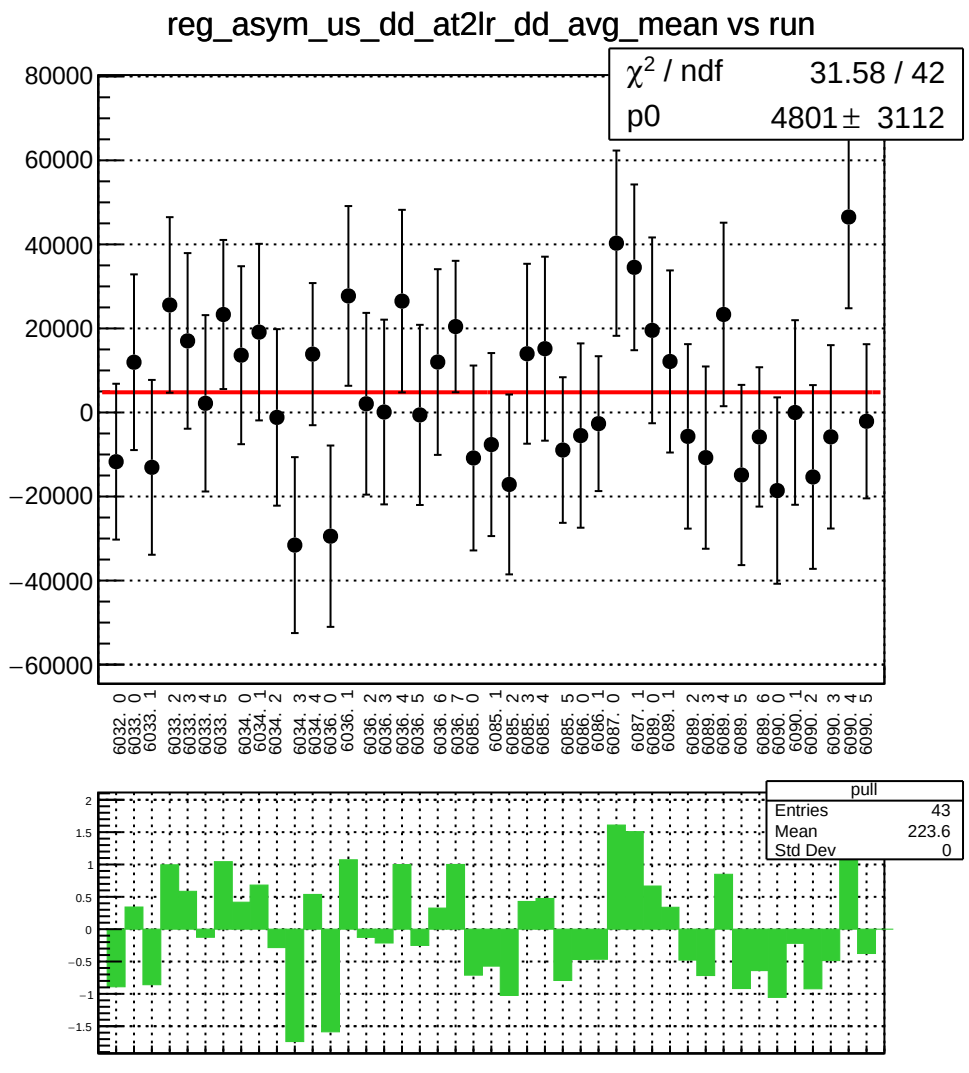

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.25 / 42
p0 −0.01389 ± 0.04358
pull
Entries 43
Mean 66.2
Std Dev 0

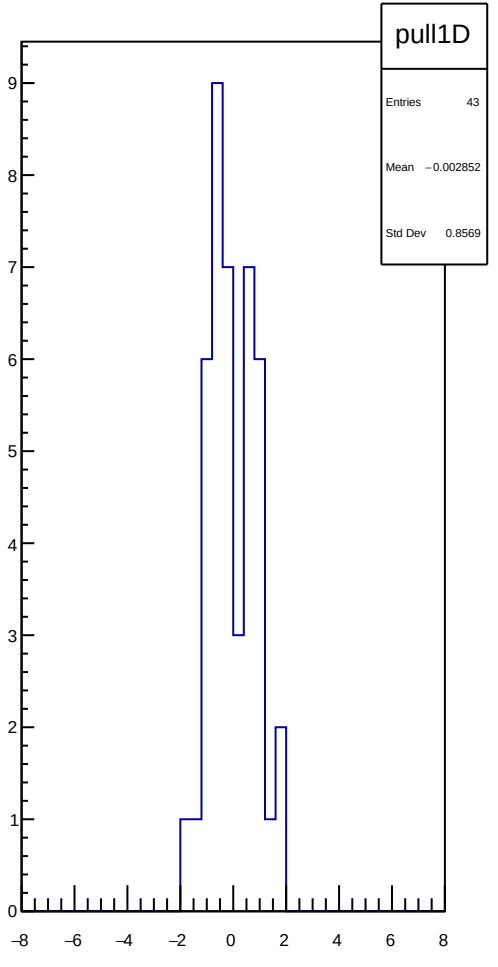

pull1D
Entries 43
Mean 0.04874
Std Dev 0.878

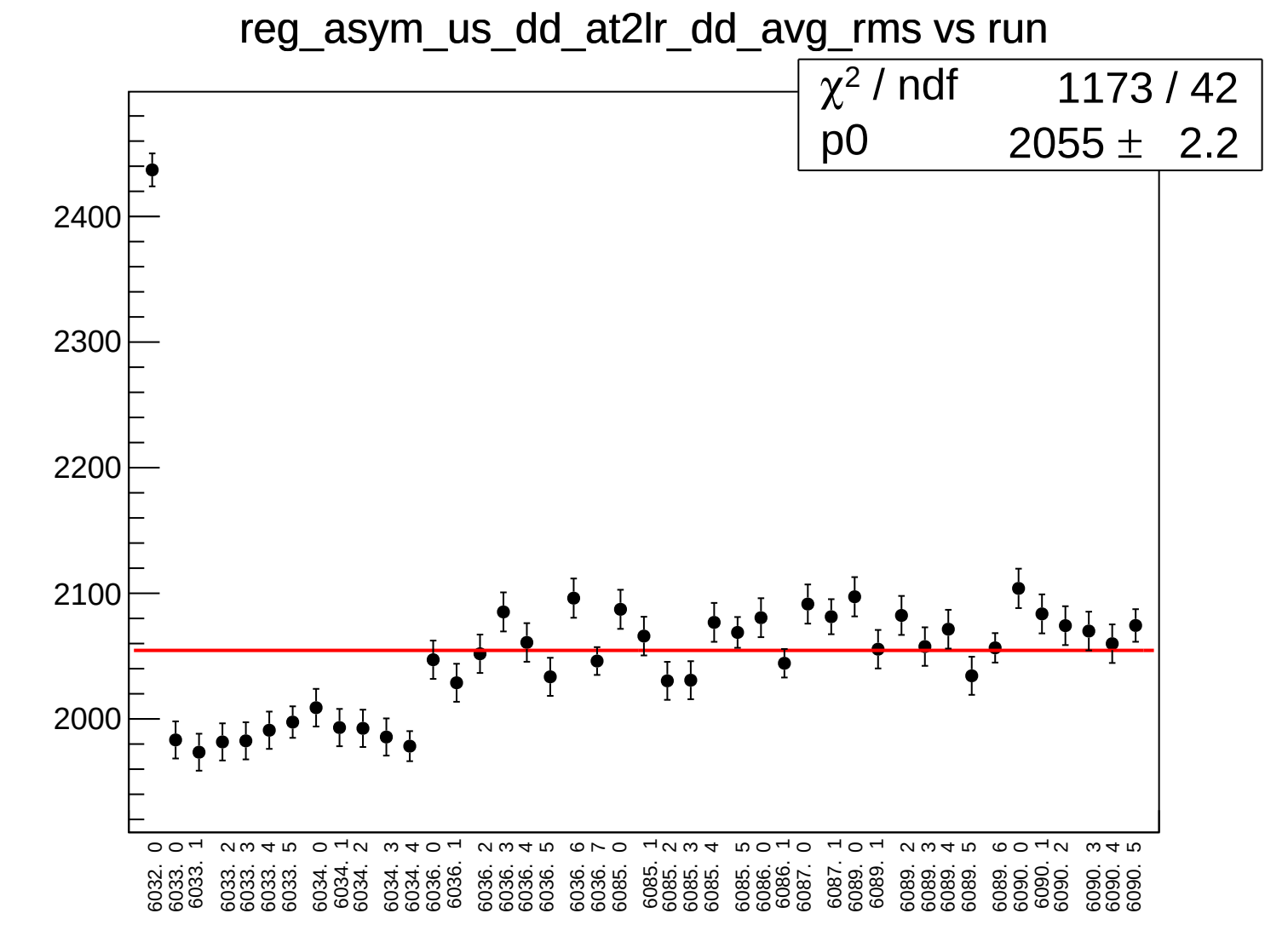

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.625e+05 / 42
p0 22.02 ± 0.03082
100
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

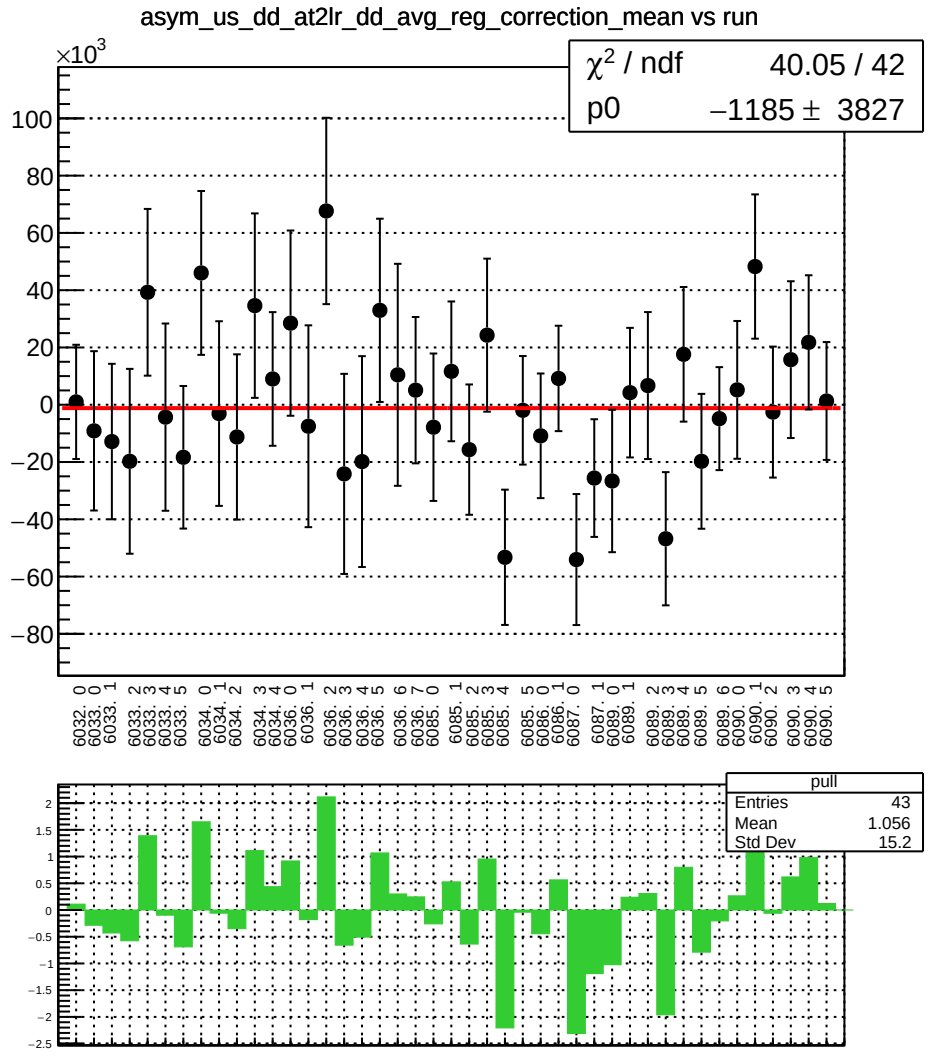

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.28 / 42
p0 6.591e−14 ± 4.388e−14
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.82
Std Dev 12.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2062
Std Dev 0.9333
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

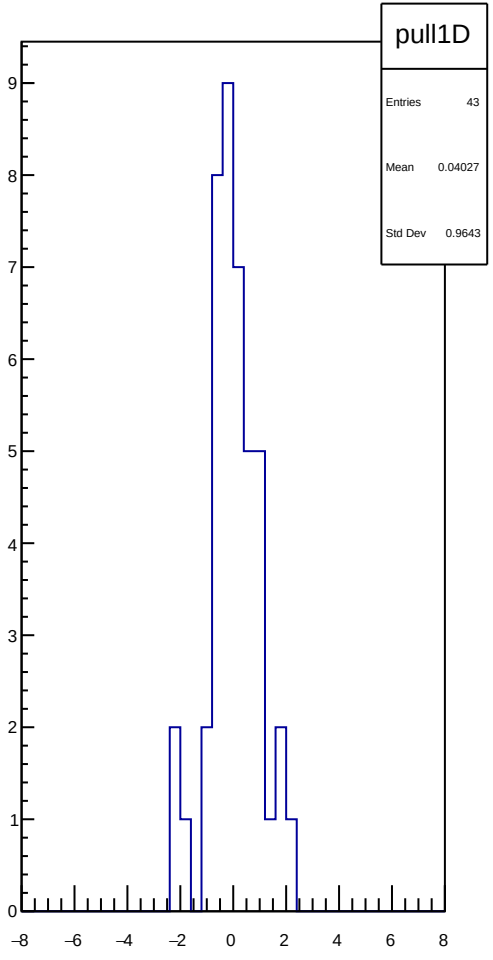

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.844e+05 / 42
p0 2.169e−11 ± 3.103e−14
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

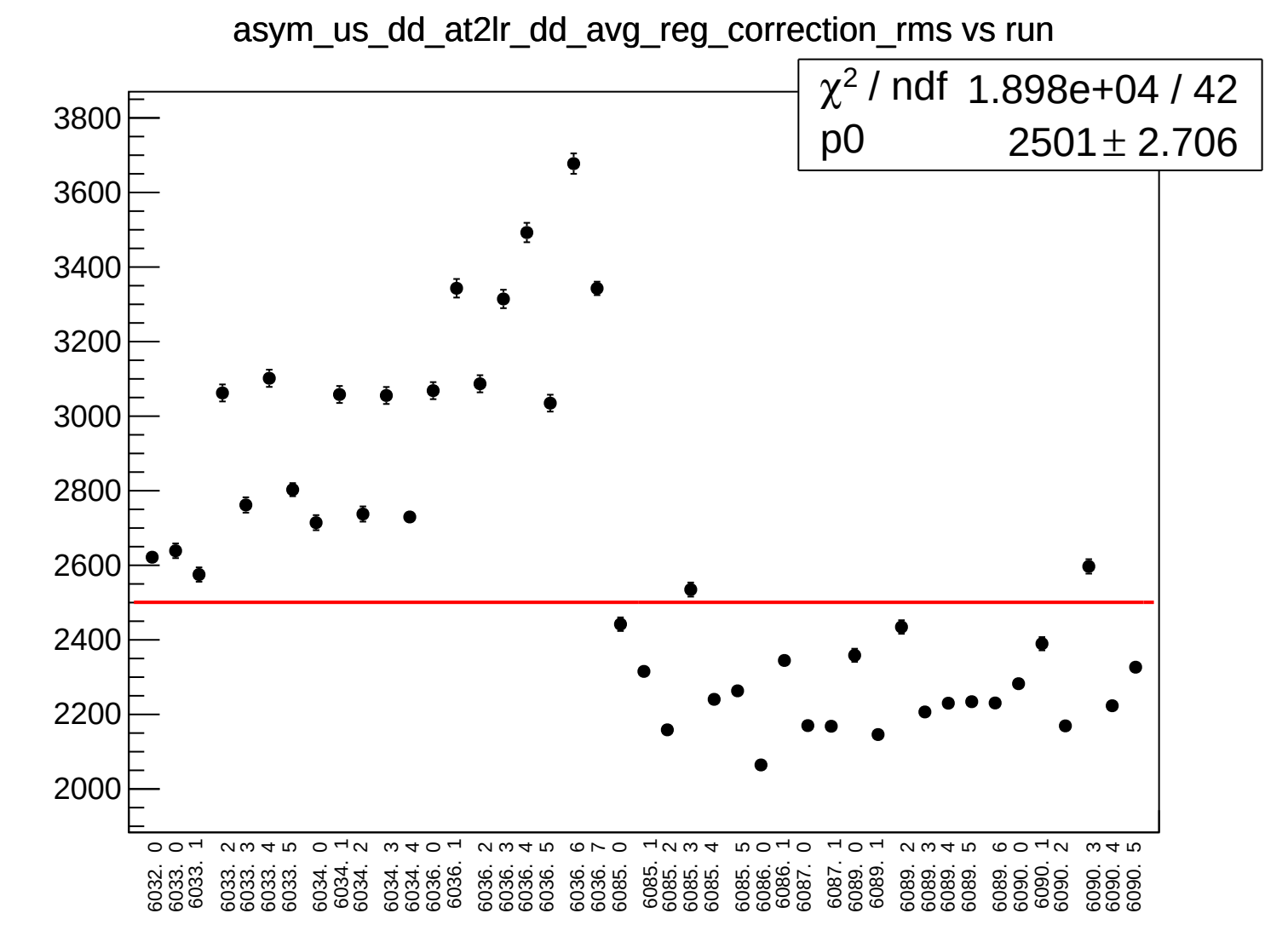

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 31.58 / 42
p0 4801 ± 3112
80000
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 223.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

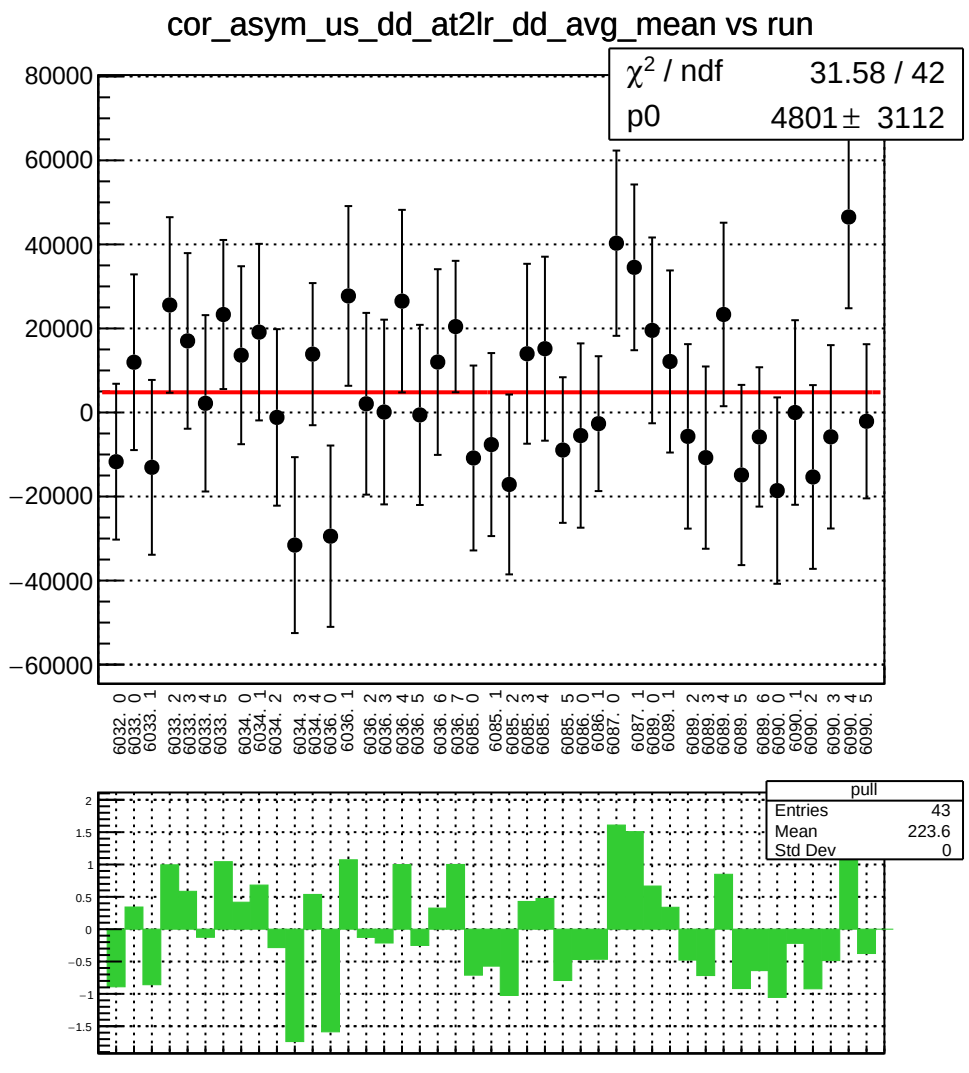

pull1D
Entries 43
Mean −0.002852
Std Dev 0.8569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

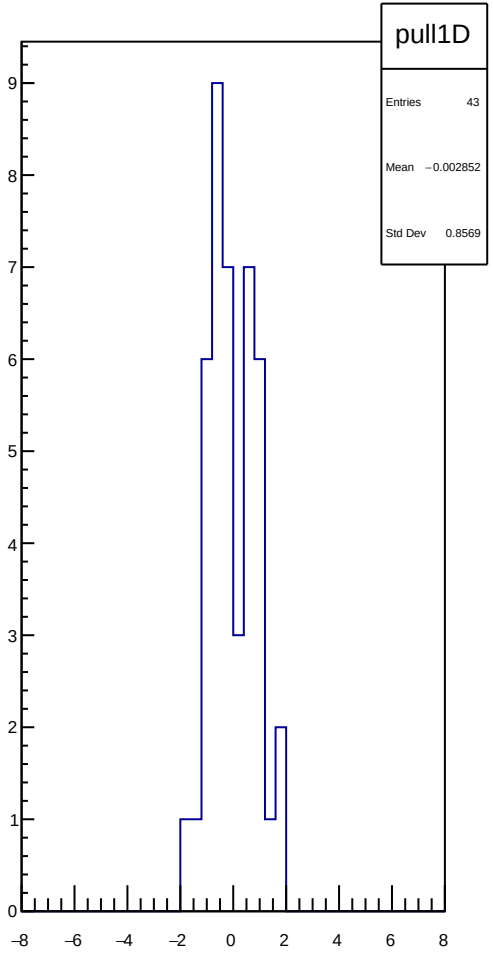

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1173 / 42
p0 2055 ± 2.2
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

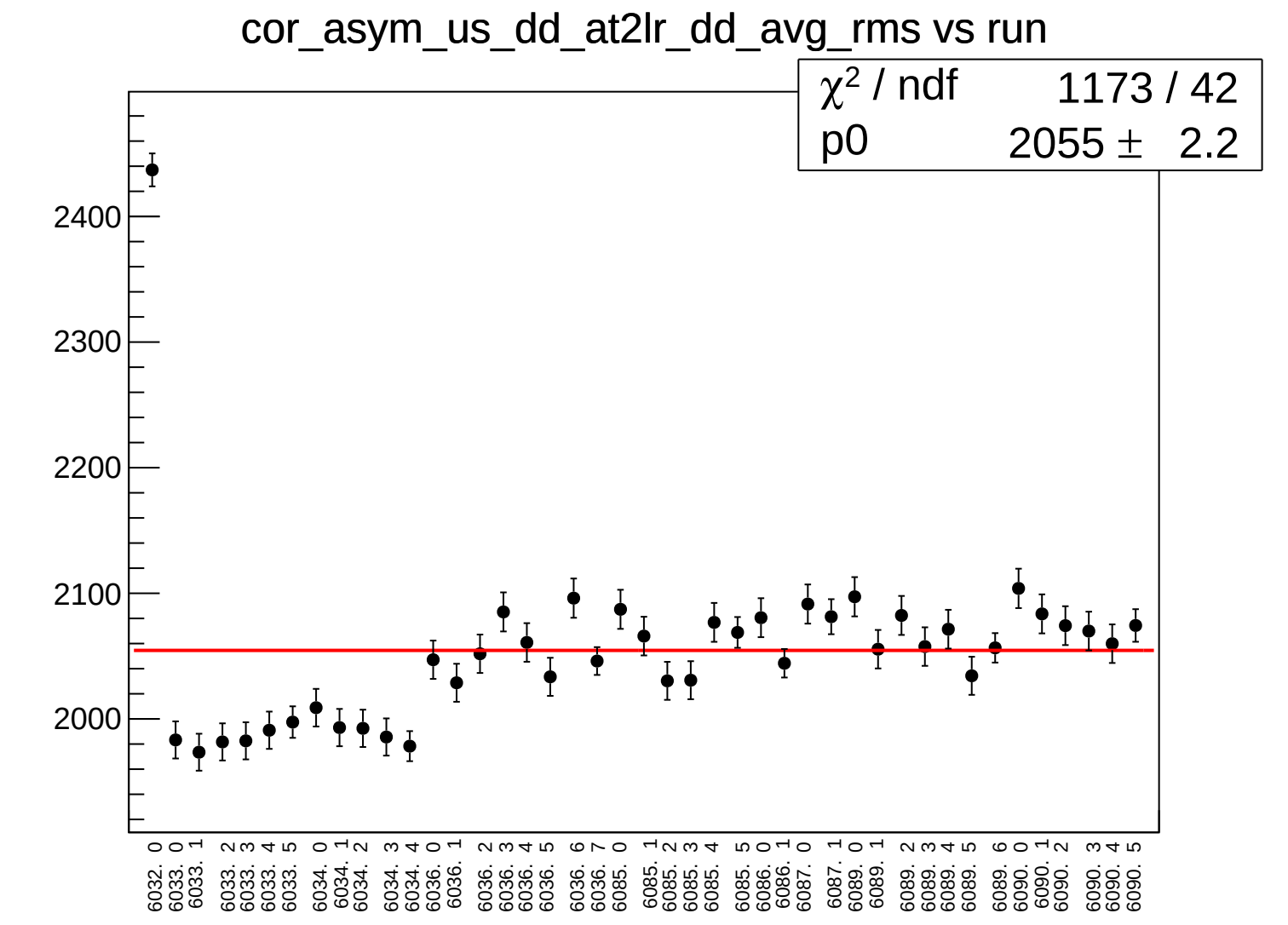

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.05 / 42
p0 −1185 ± 3827
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.056
Std Dev 15.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

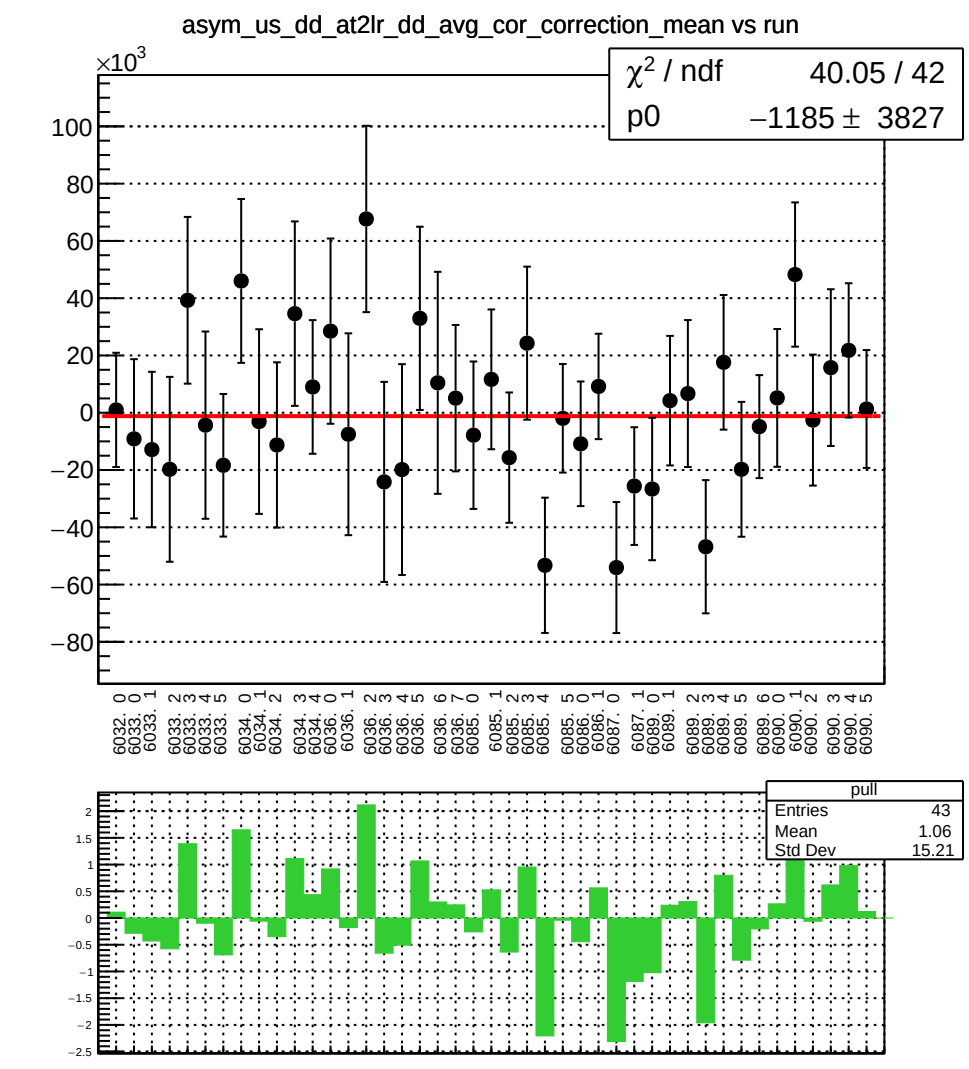

pull1D
Entries 43
Mean 0.04027
Std Dev 0.9643
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

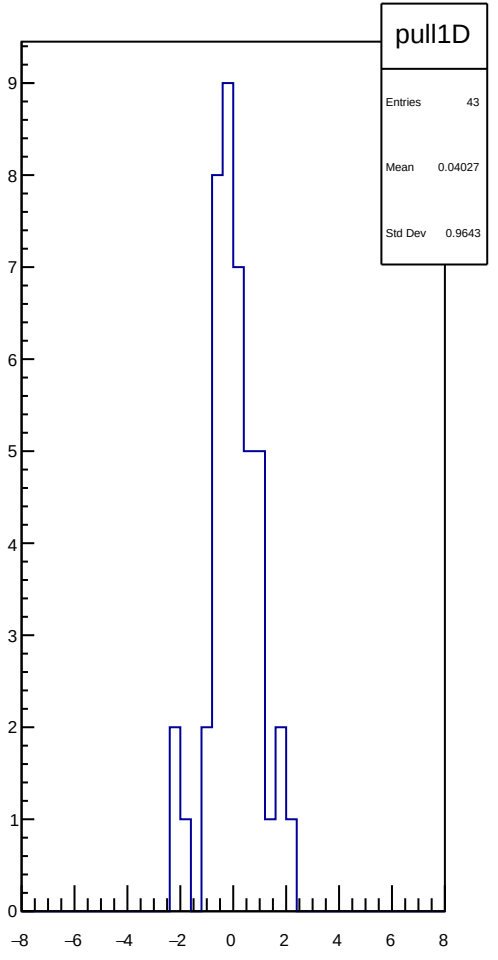

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.898e+04 / 42
p0 2501 ± 2.706
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

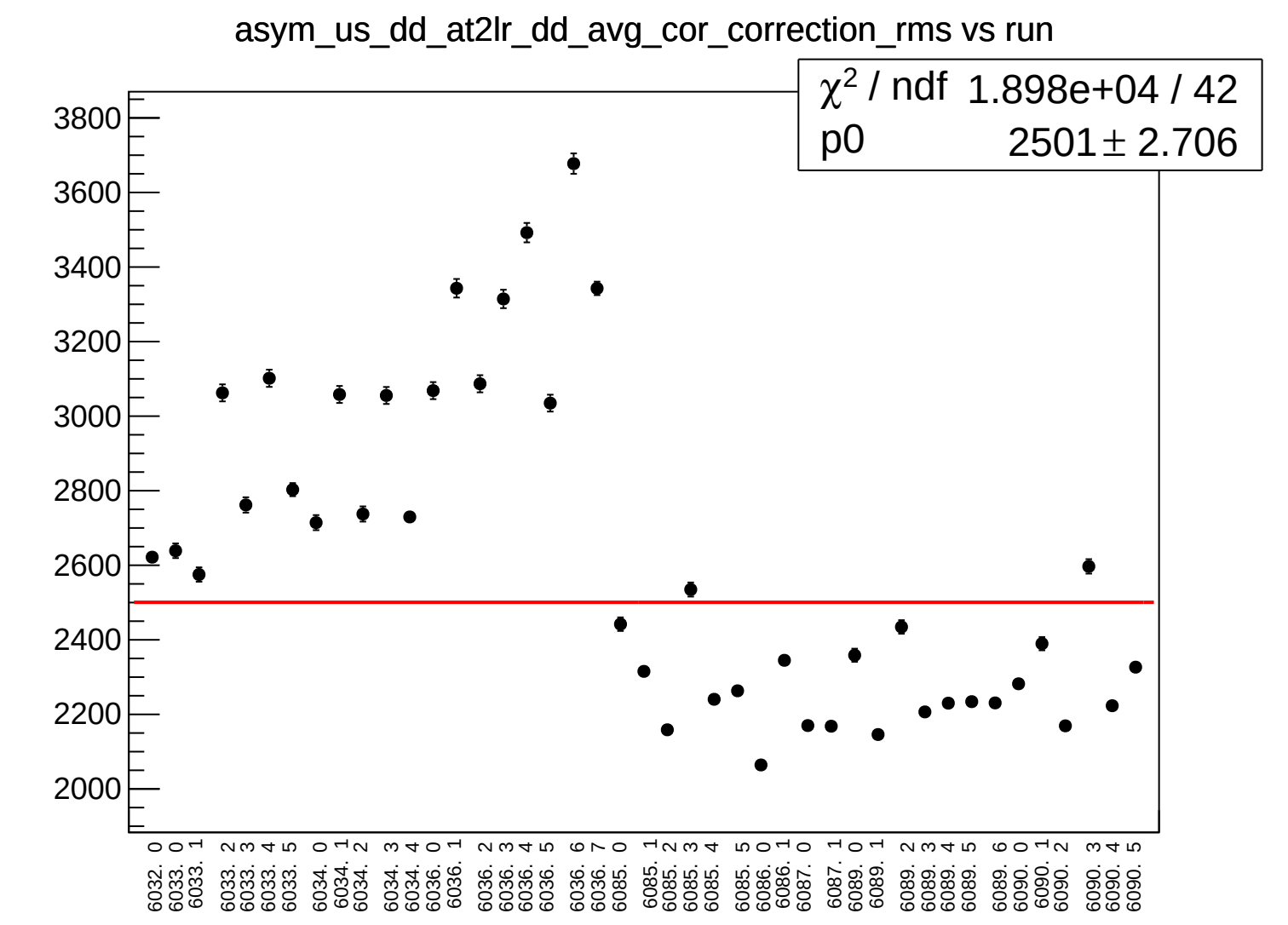

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 31.58 / 42
p0 4801 ± 3112
80000
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 223.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

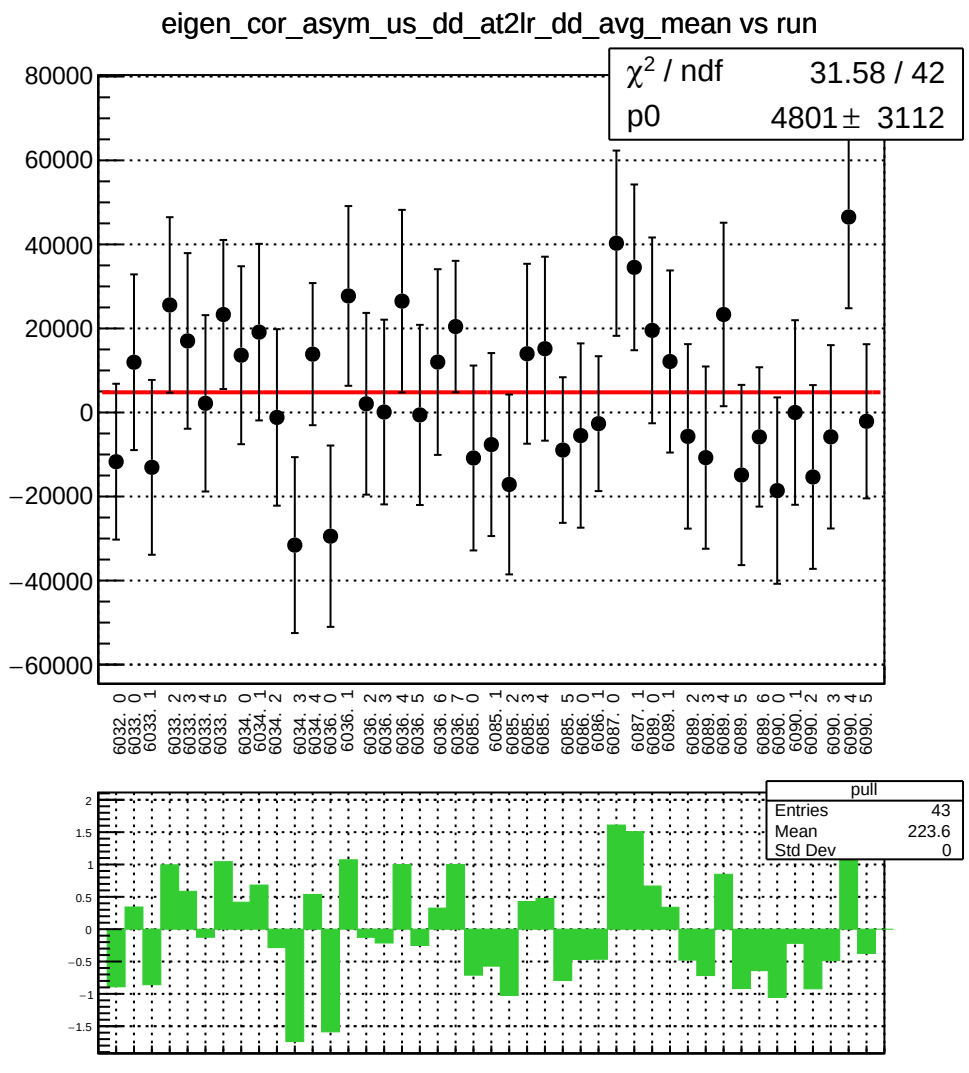

pull1D
Entries 43
Mean −0.002852
Std Dev 0.8569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

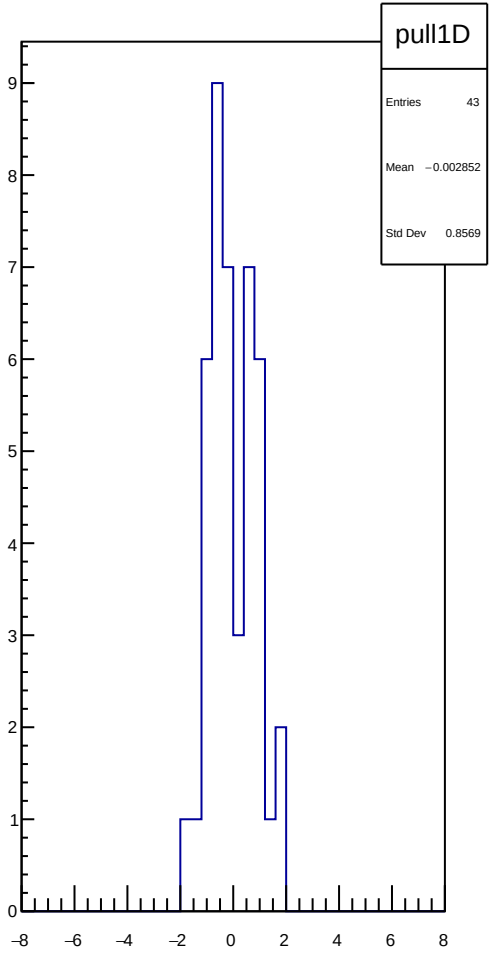

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1173 / 42
p0 2055 ± 2.2
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

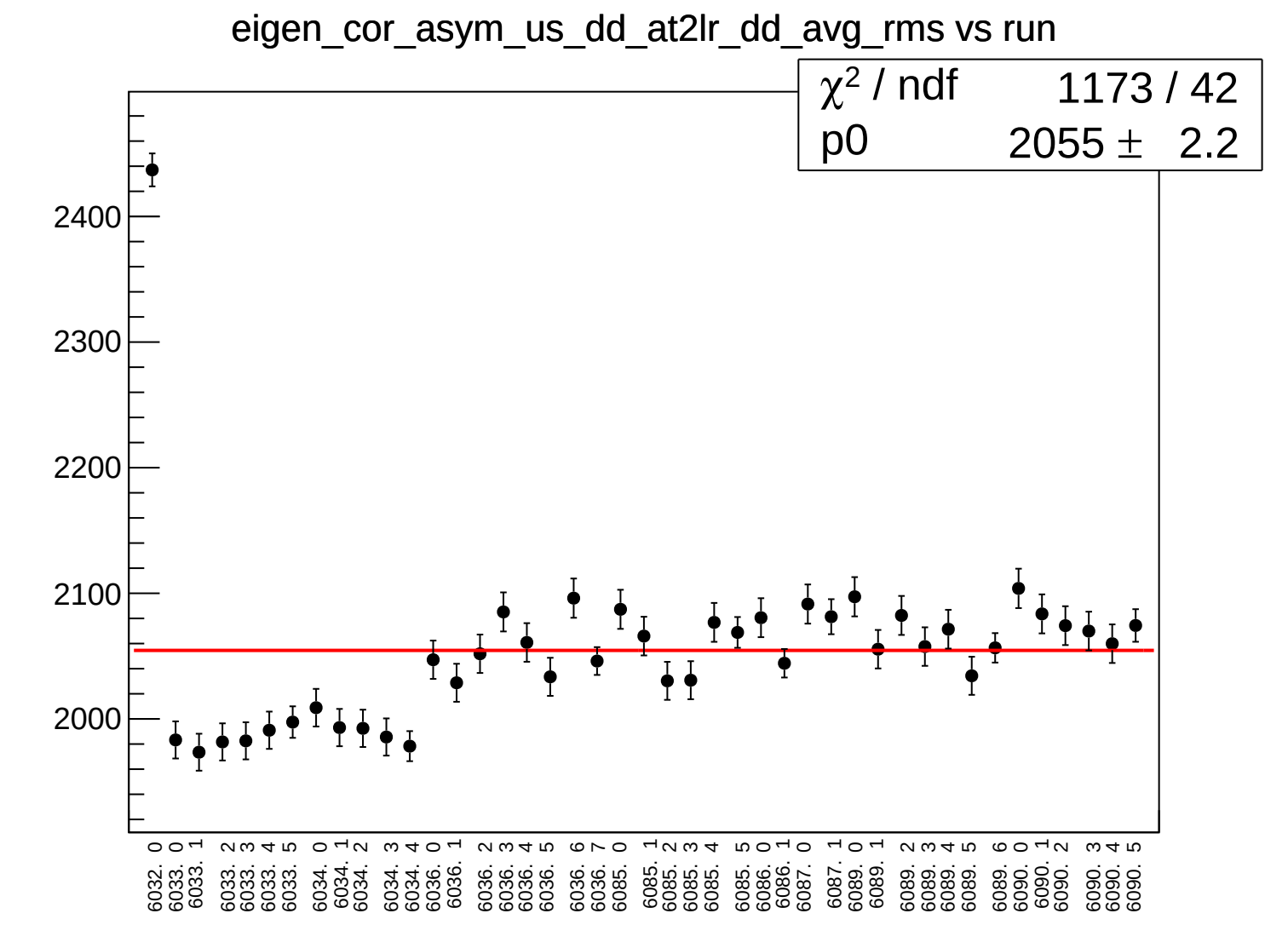

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.05 / 42
p0 −1185 ± 3827
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.06
Std Dev 15.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

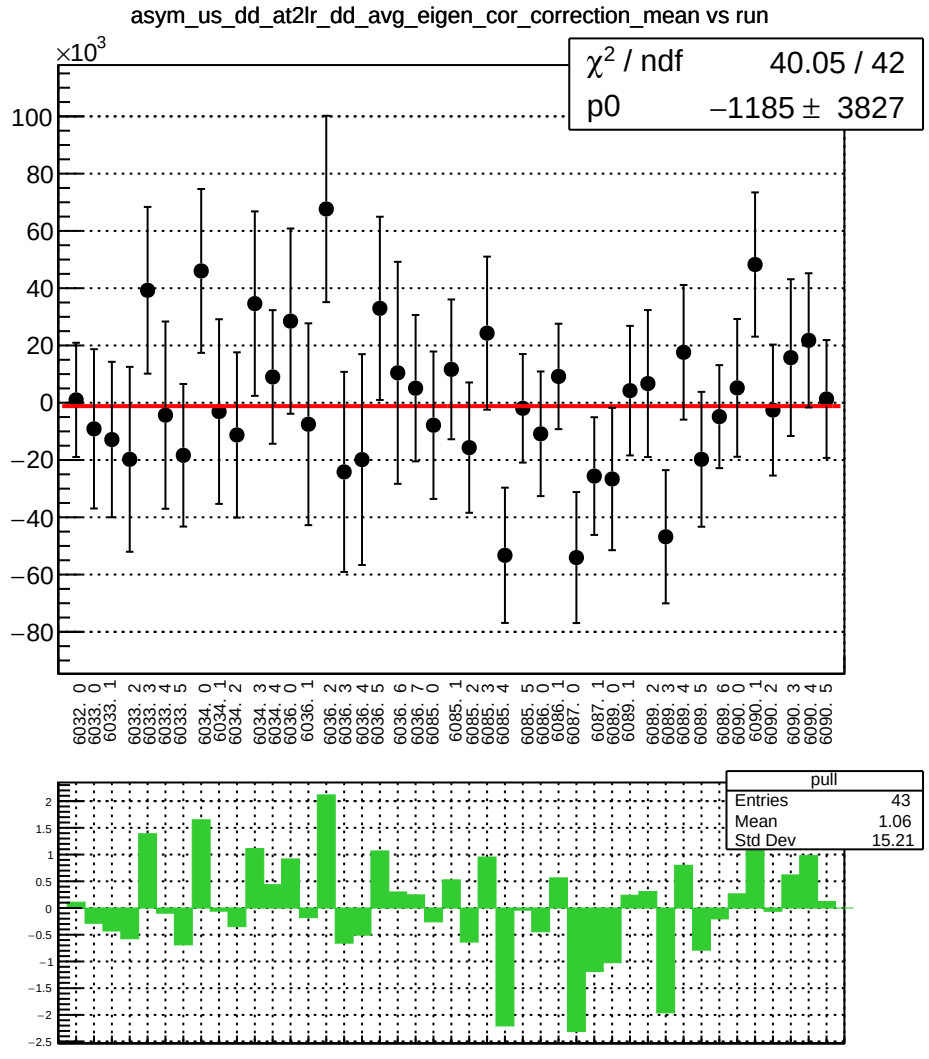

pull1D
Entries 43
Mean 0.04027
Std Dev 0.9643
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

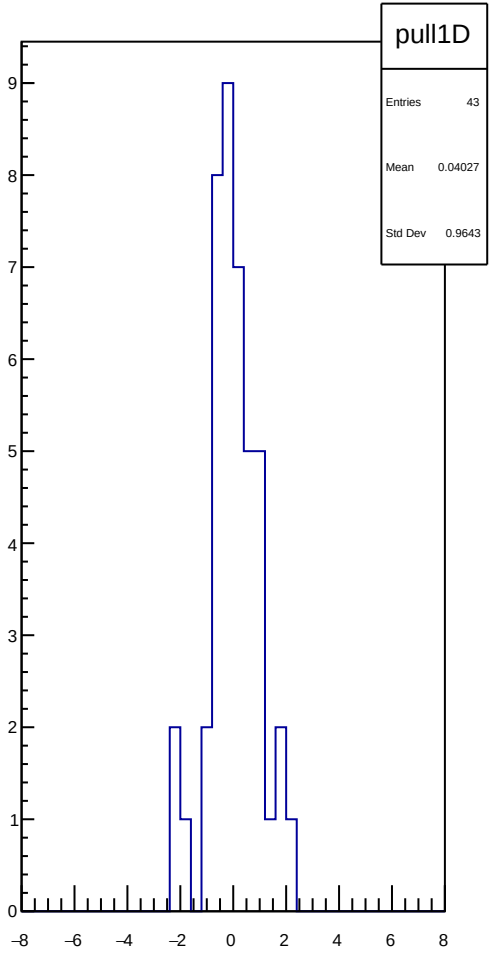

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.898e+04 / 42
p0 2501 ± 2.706
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

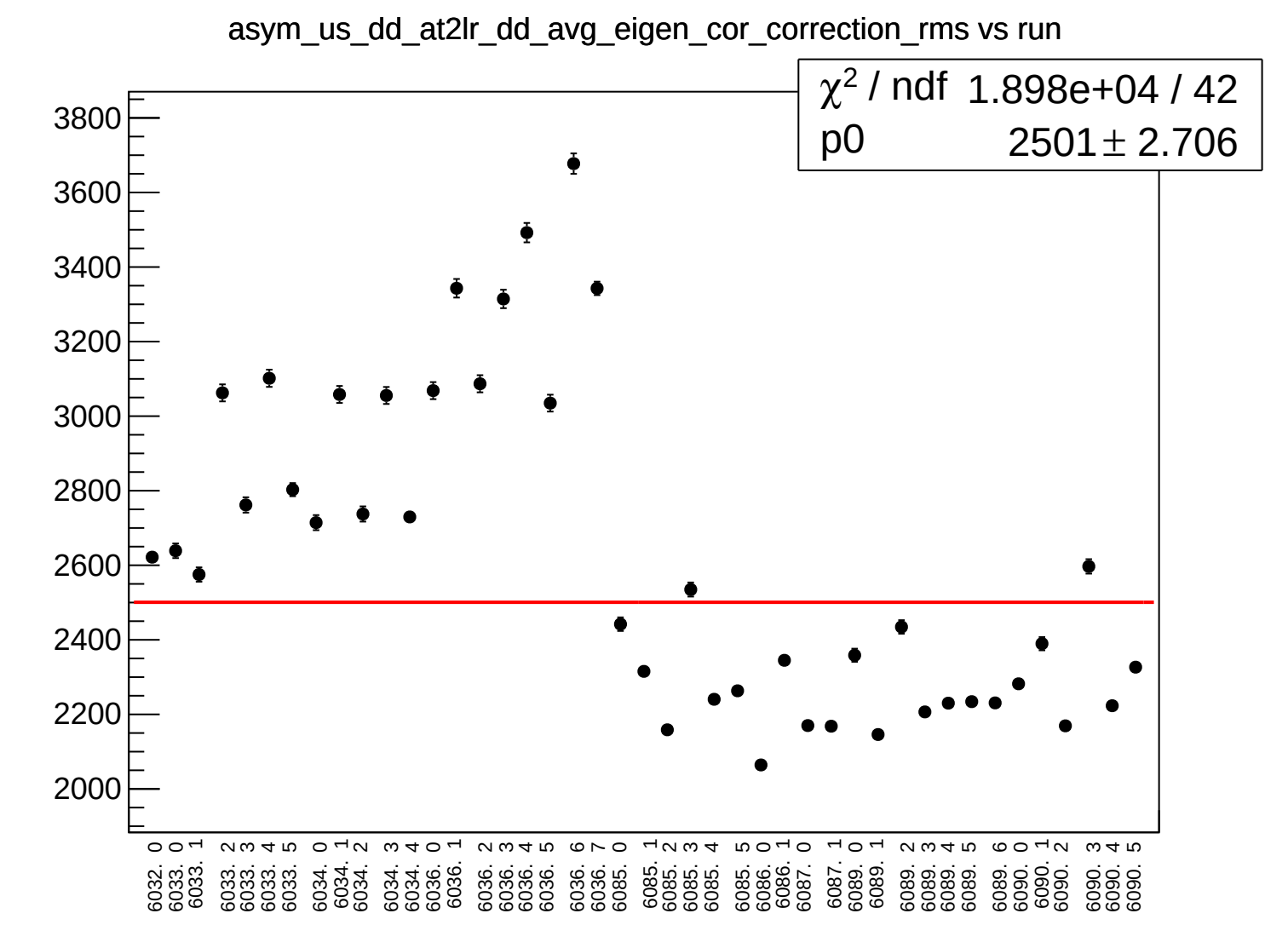

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 31.58 / 42
p0 4801 ± 3112
80000
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 223.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

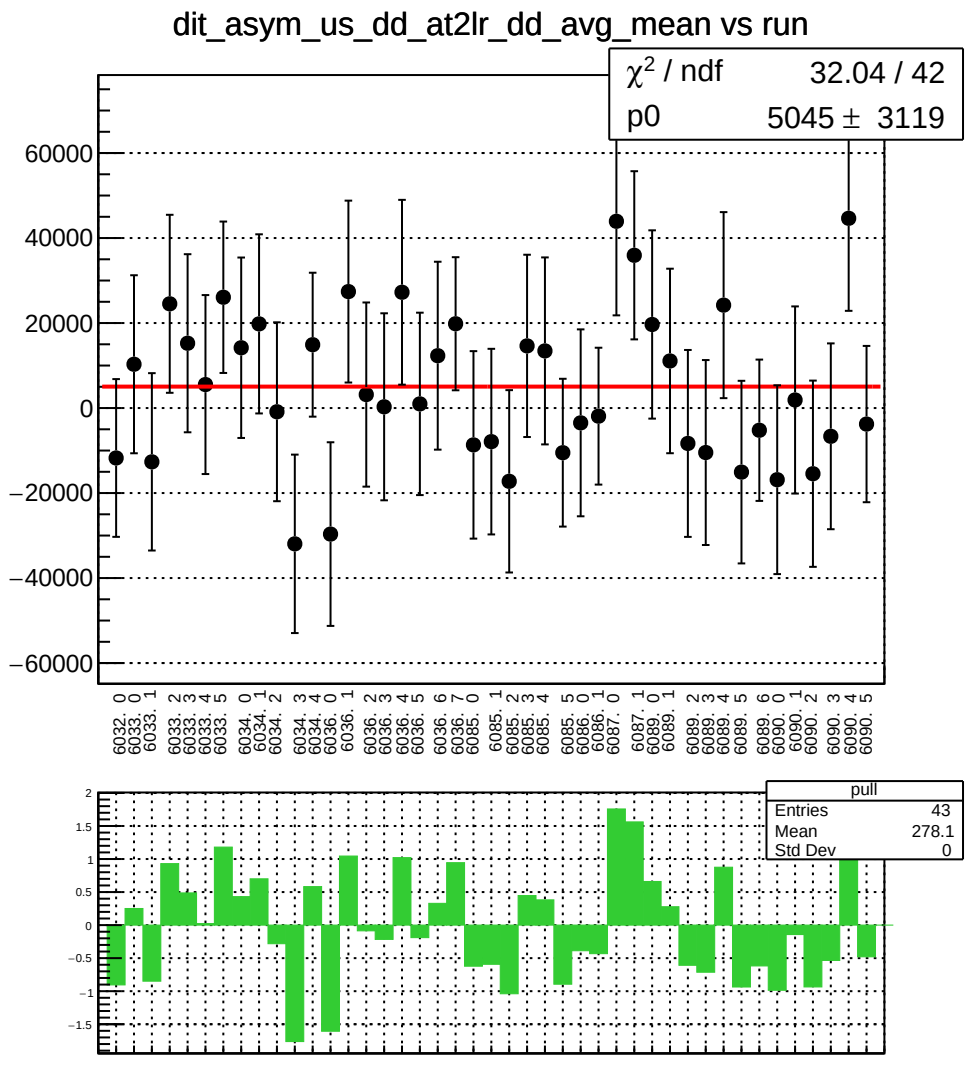

pull1D
Entries 43
Mean −0.002852
Std Dev 0.8569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

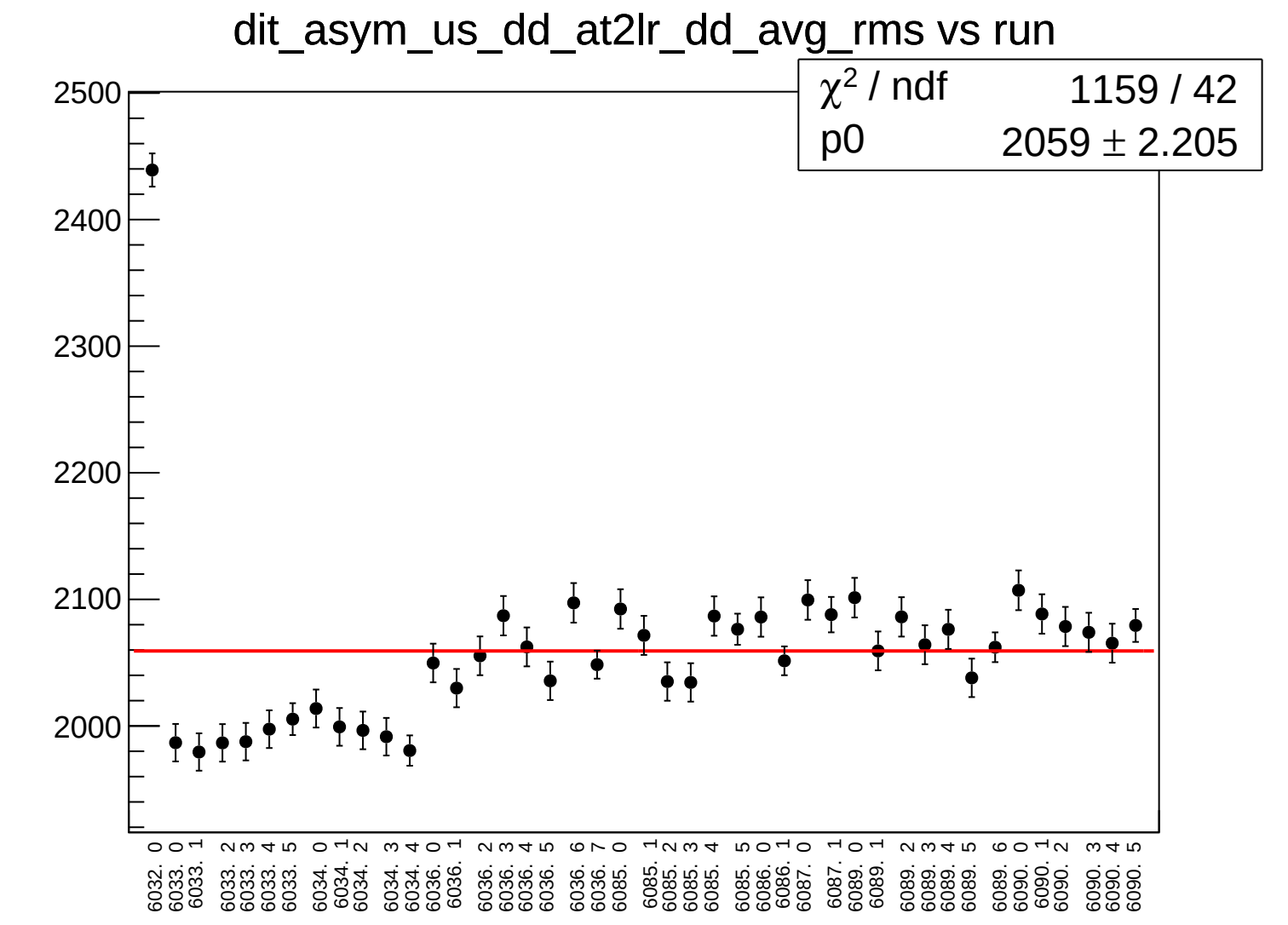

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1173 / 42
p0 2055 ± 2.2
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

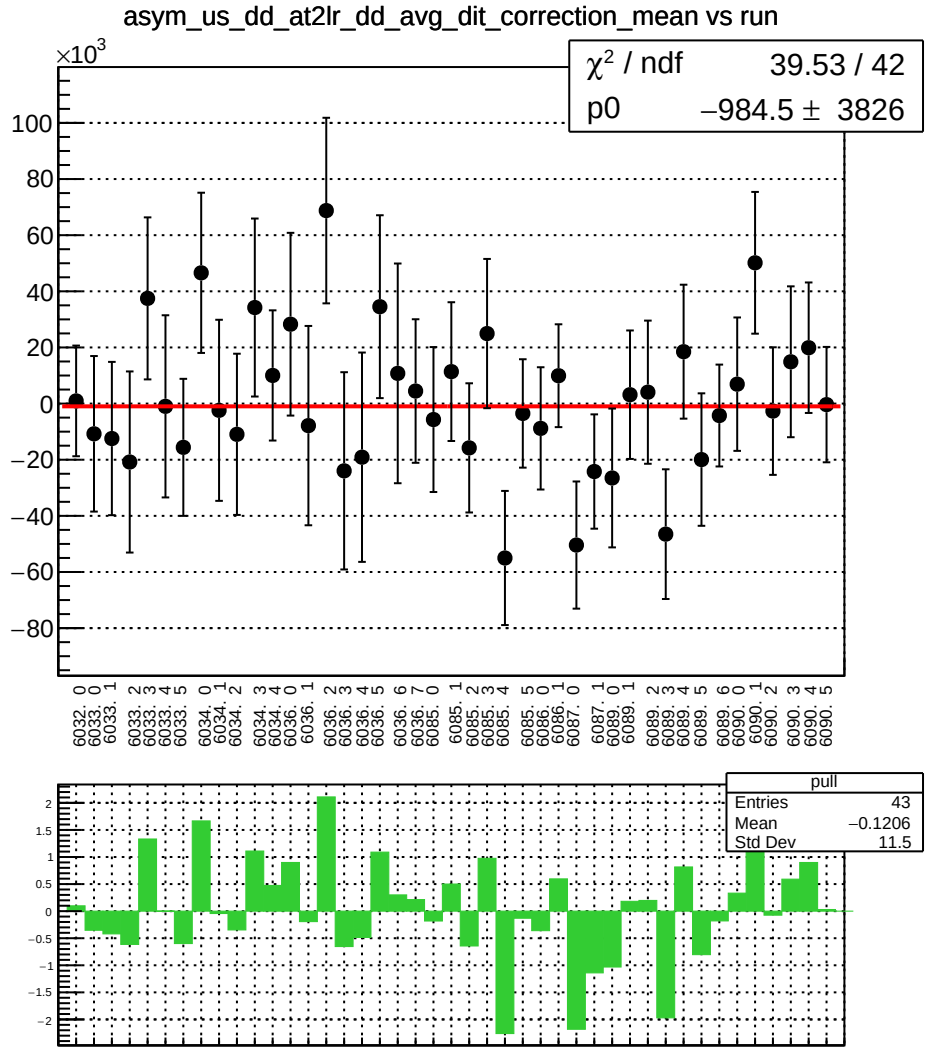

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.05 / 42
p0 −1185 ± 3827
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.06
Std Dev 15.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

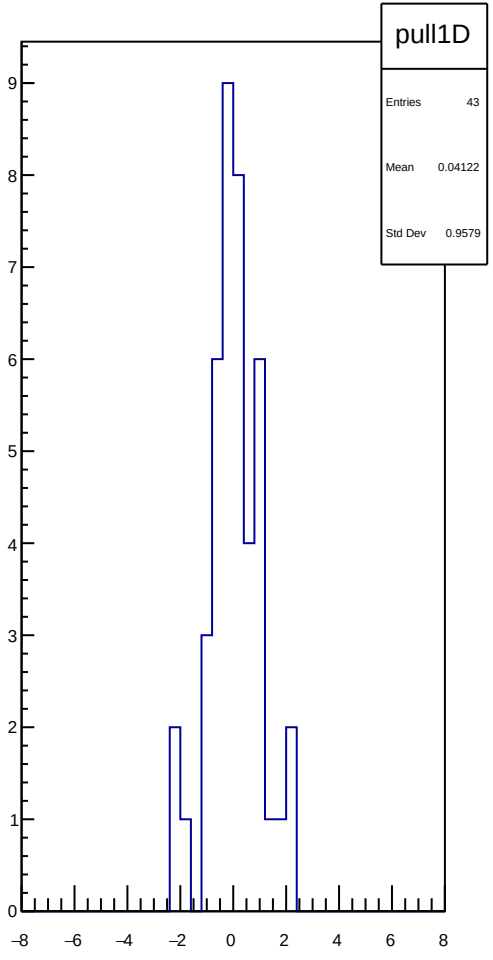

pull1D
Entries 43
Mean 0.04027
Std Dev 0.9643
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

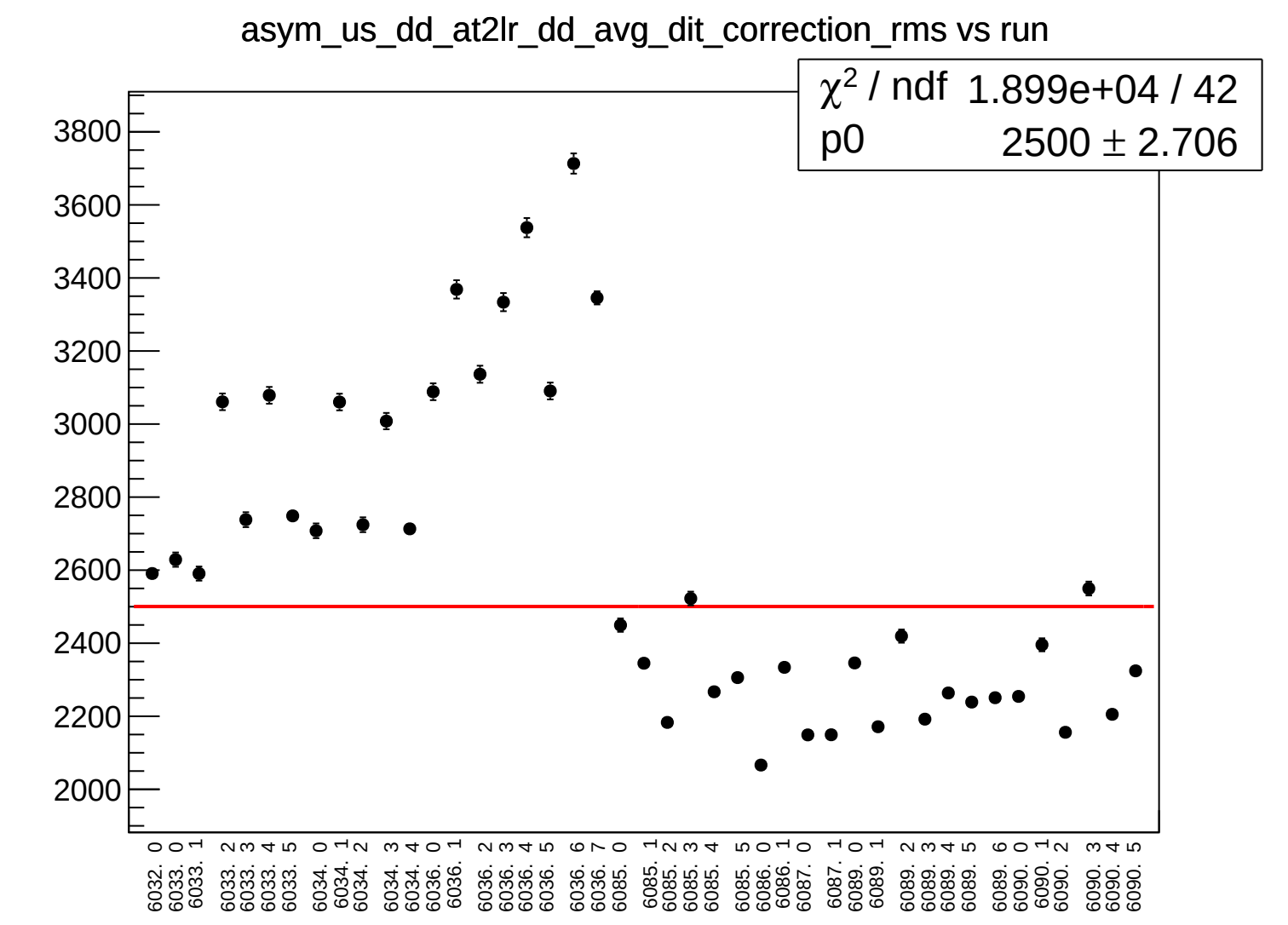

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.898e+04 / 42
p0 2501 ± 2.706
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

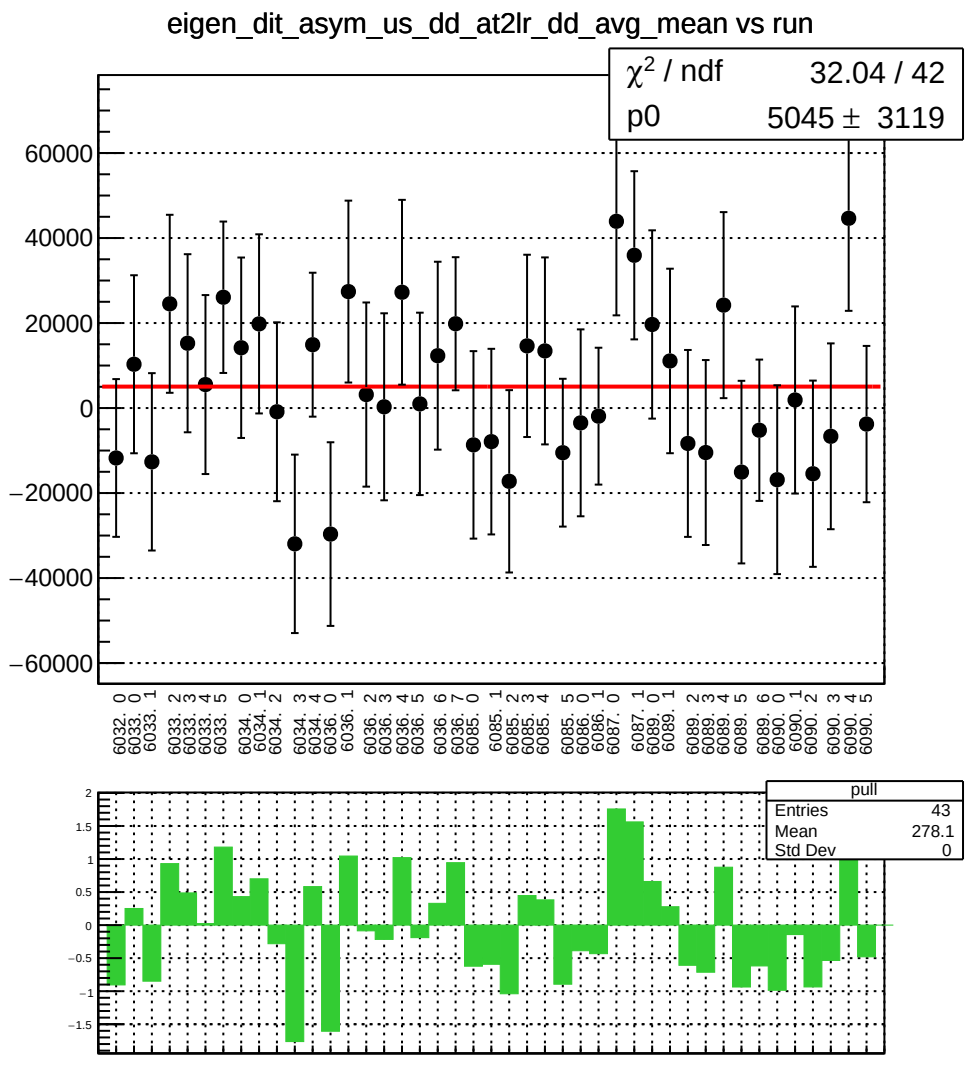

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 32.04 / 42
p0 5045 ± 3119
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 278.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.002586
Std Dev 0.8632
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

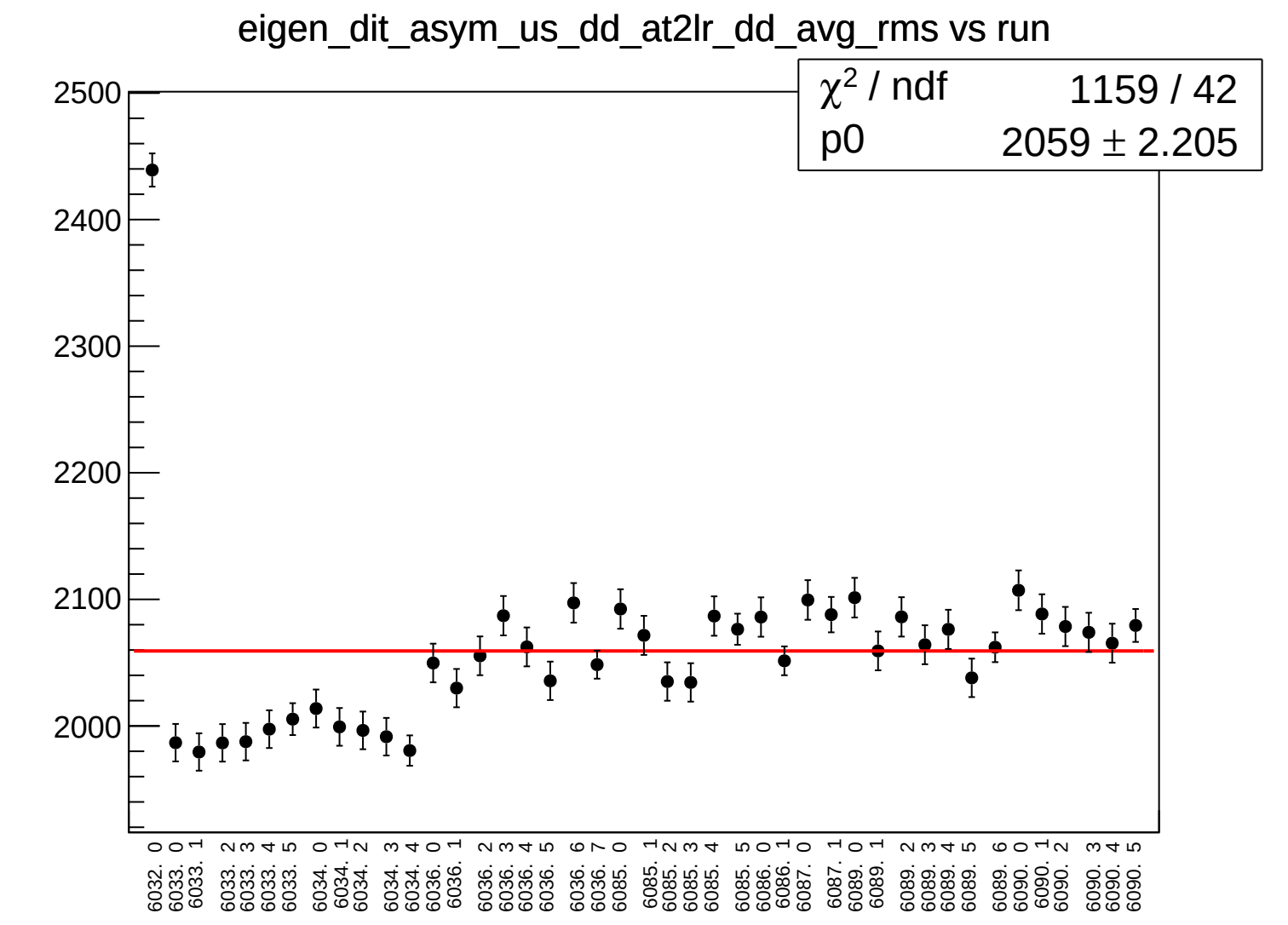

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1159 / 42
p0 2059 ± 2.205
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

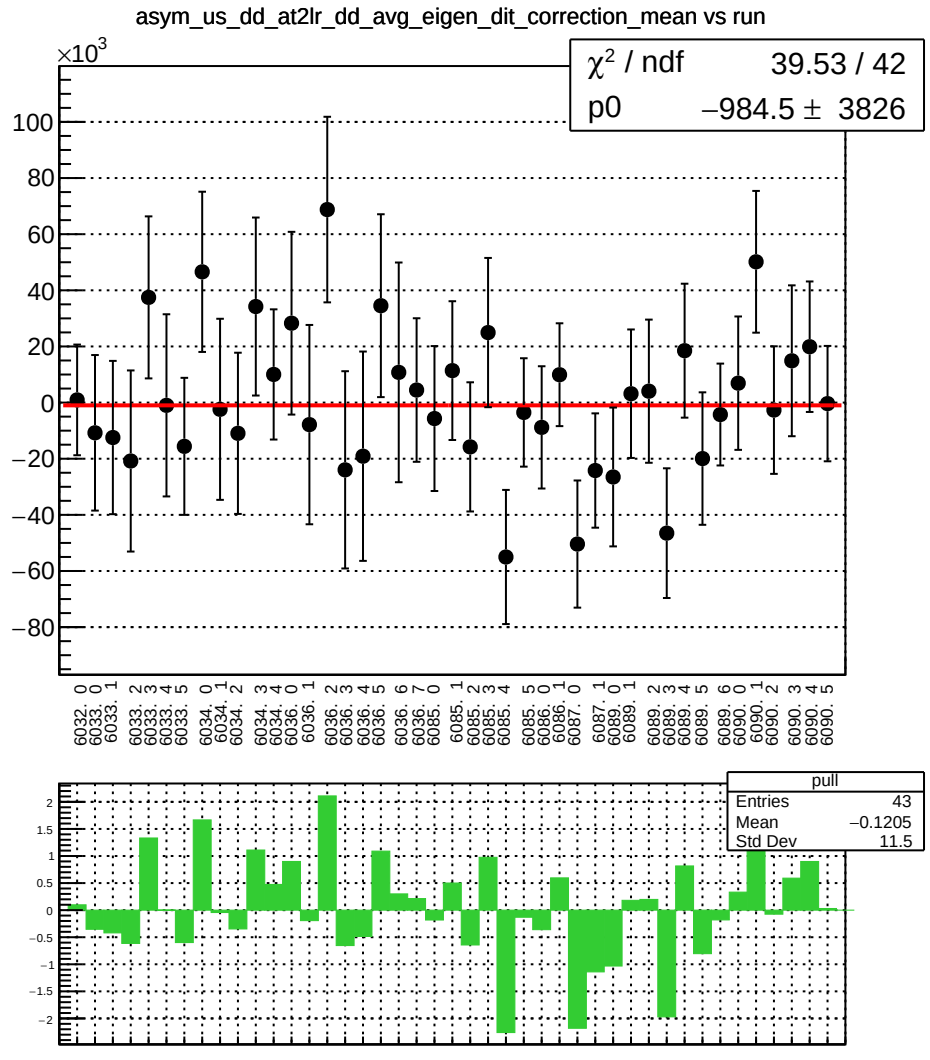

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 39.53 / 42
p0 −984.5 ± 3826
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.1206
Std Dev 11.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

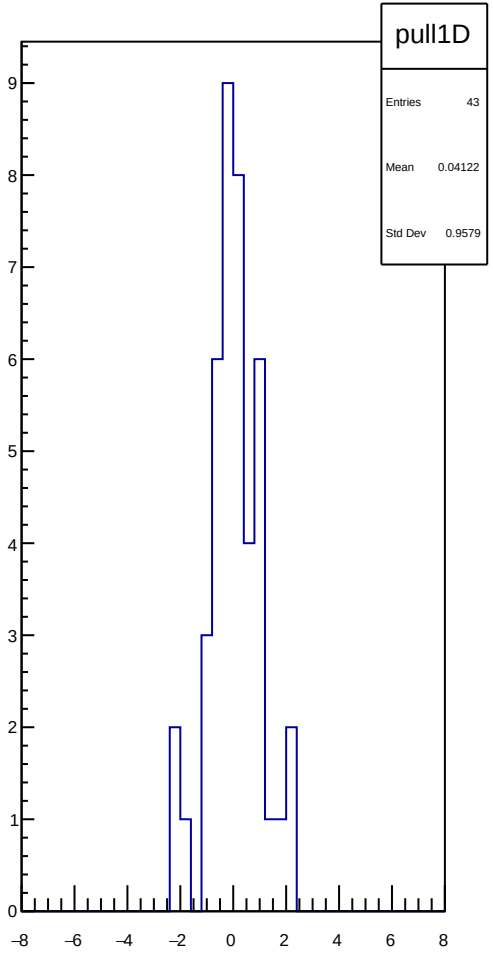

pull1D
Entries 43
Mean 0.04122
Std Dev 0.9579
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

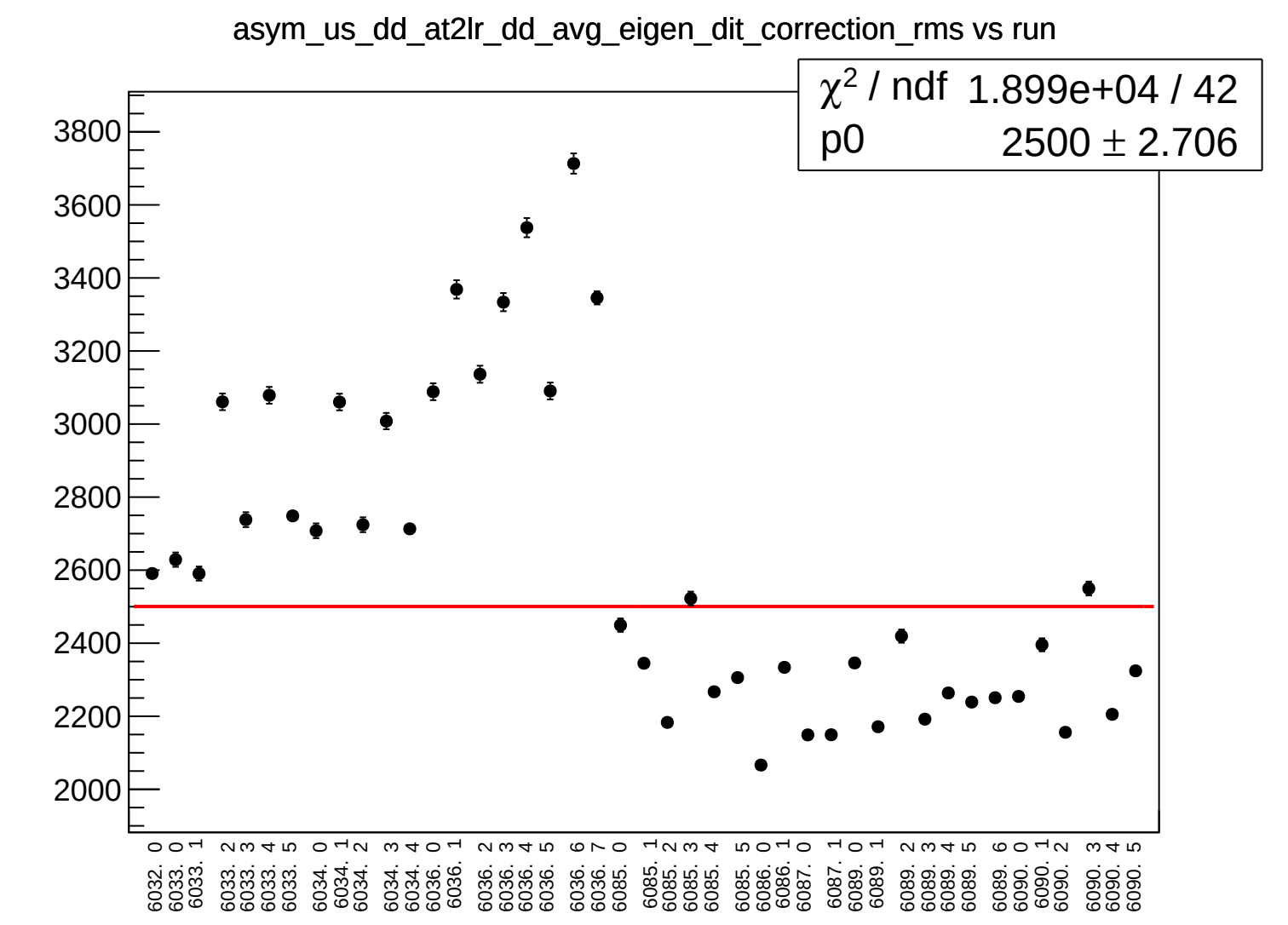

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.899e+04 / 42
p0 2500 ± 2.706
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

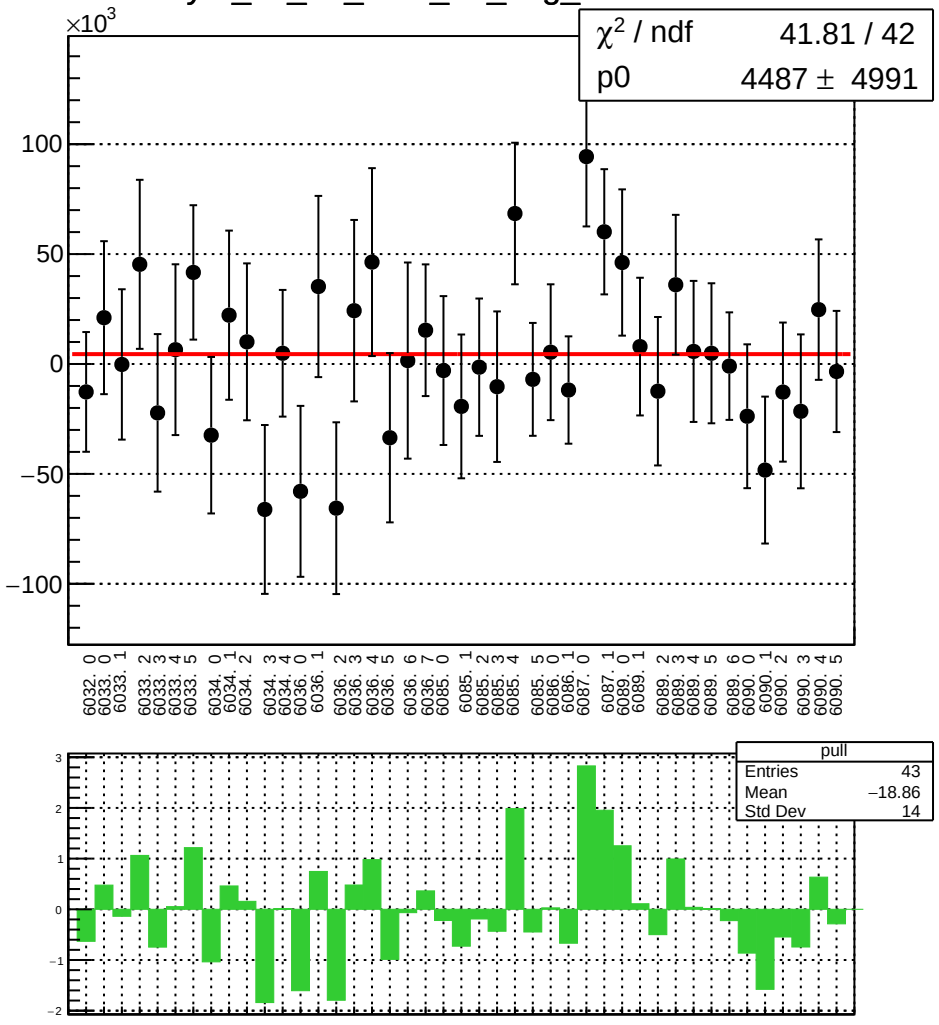

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 32.04 / 42
p0 5045 ± 3119
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 278.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.002586
Std Dev 0.8632
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

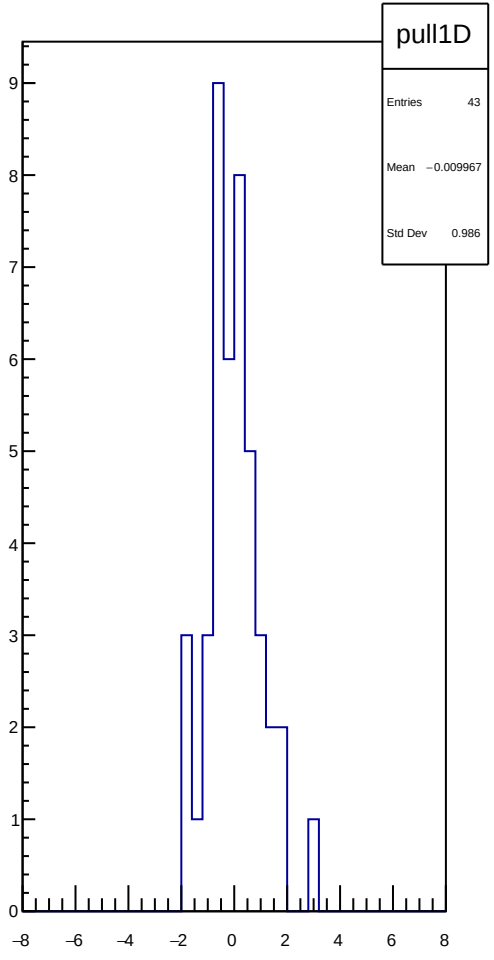

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1159 / 42
p0 2059 ± 2.205
2500
2400
2300
2200
2100
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

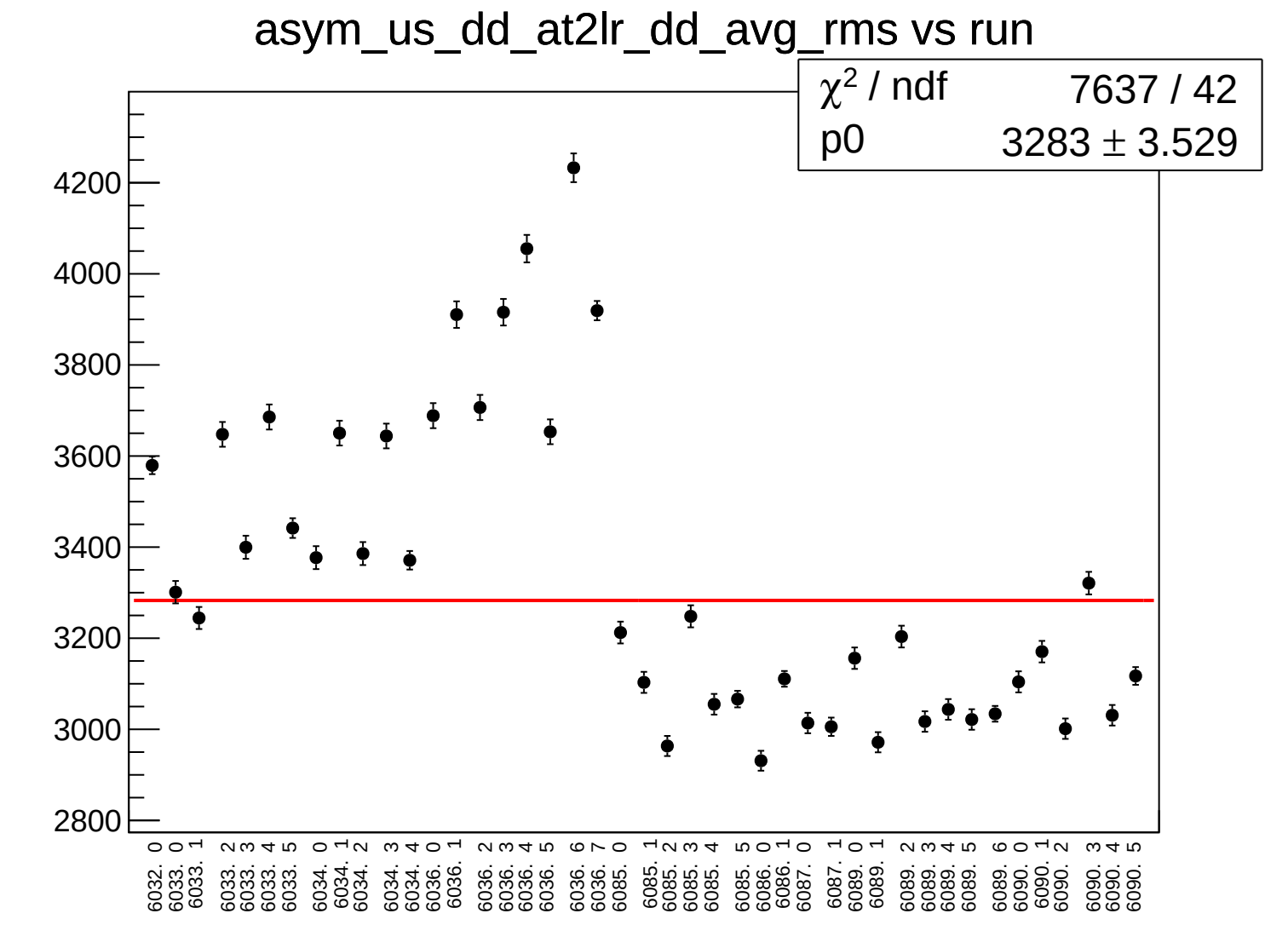

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 39.53 / 42
p0 −984.5 ± 3826
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.1205
Std Dev 11.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

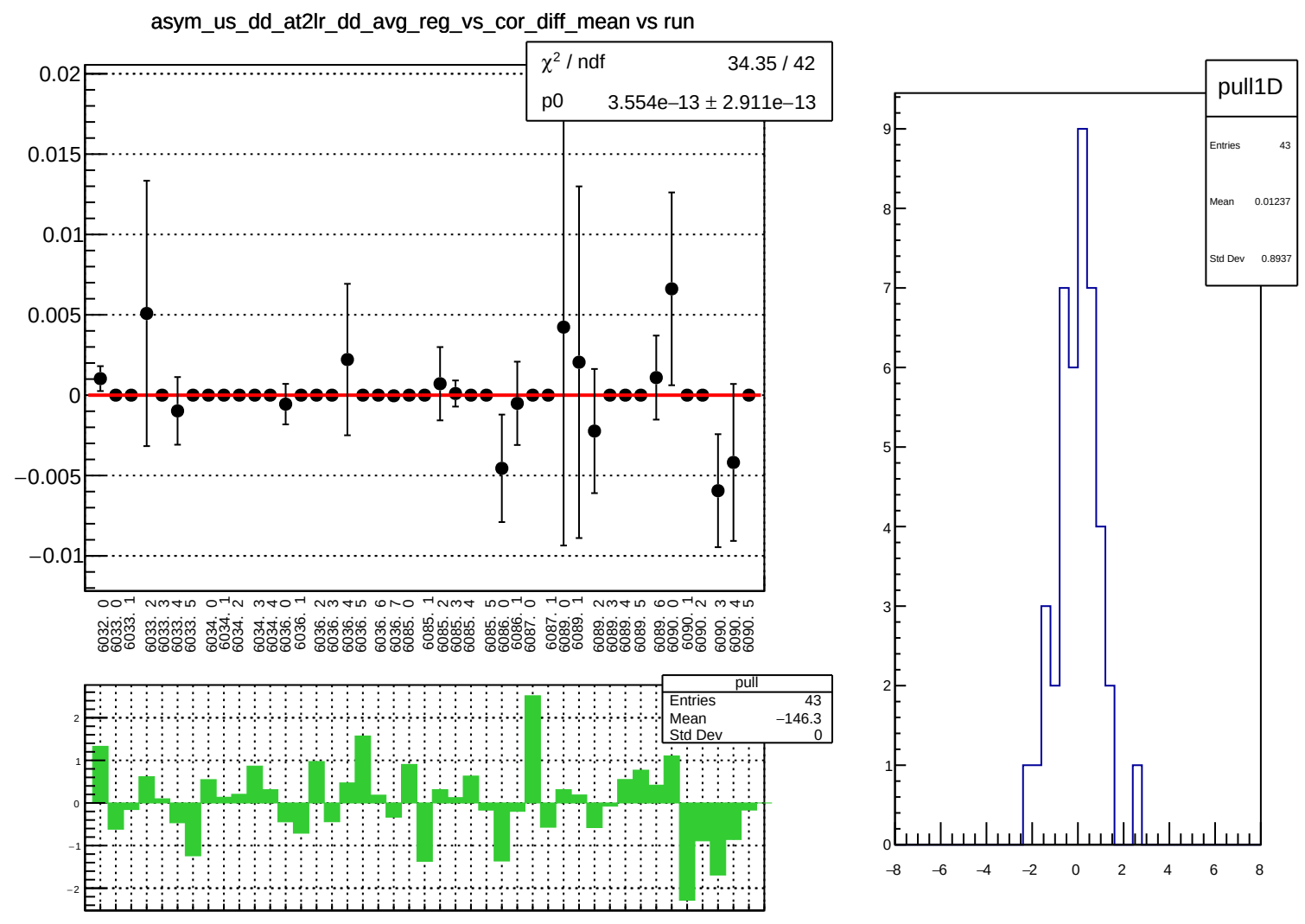

pull1D
Entries 43
Mean 0.04122
Std Dev 0.9579
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

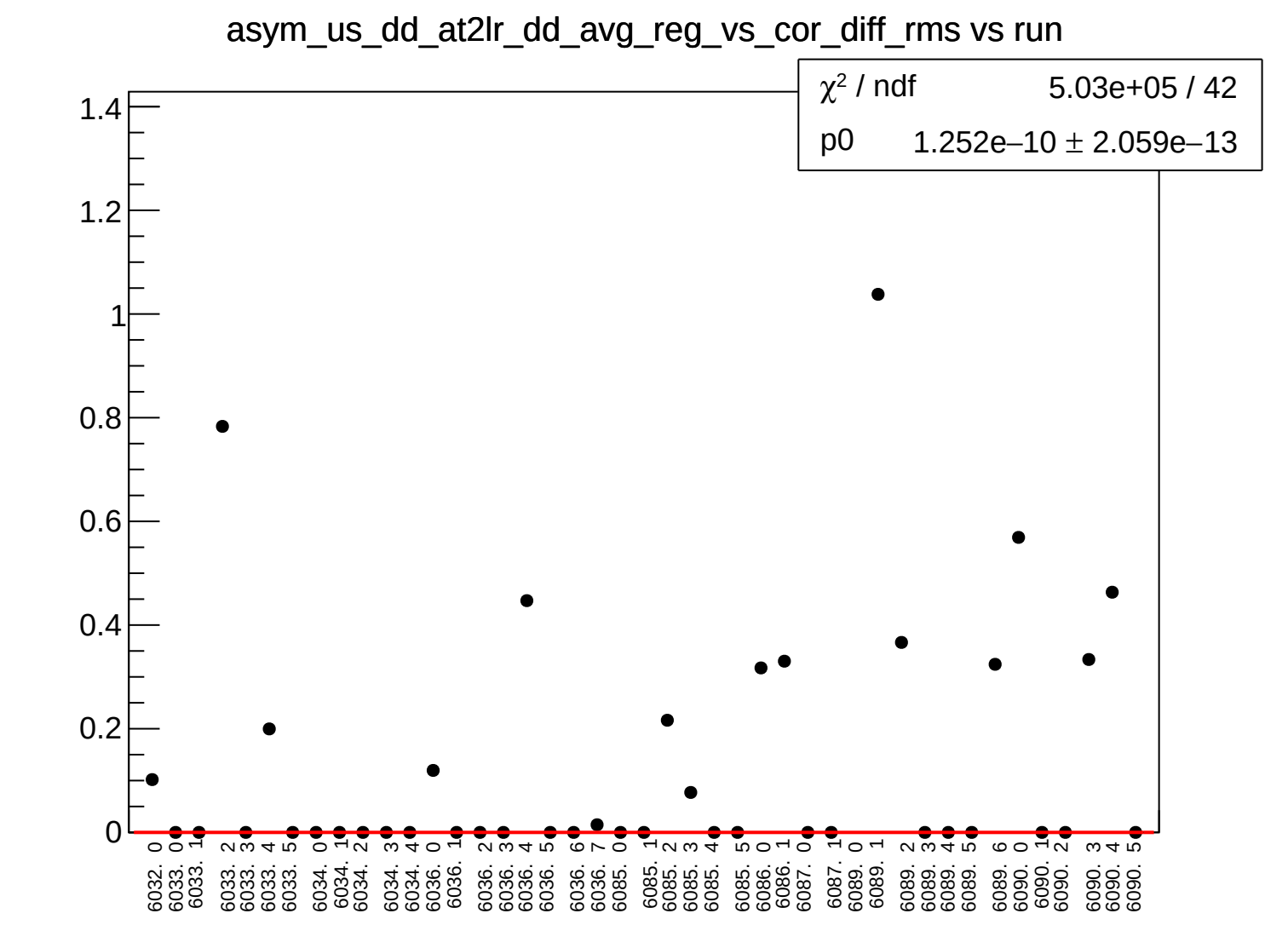

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.899e+04 / 42
p0 2500 ± 2.706
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

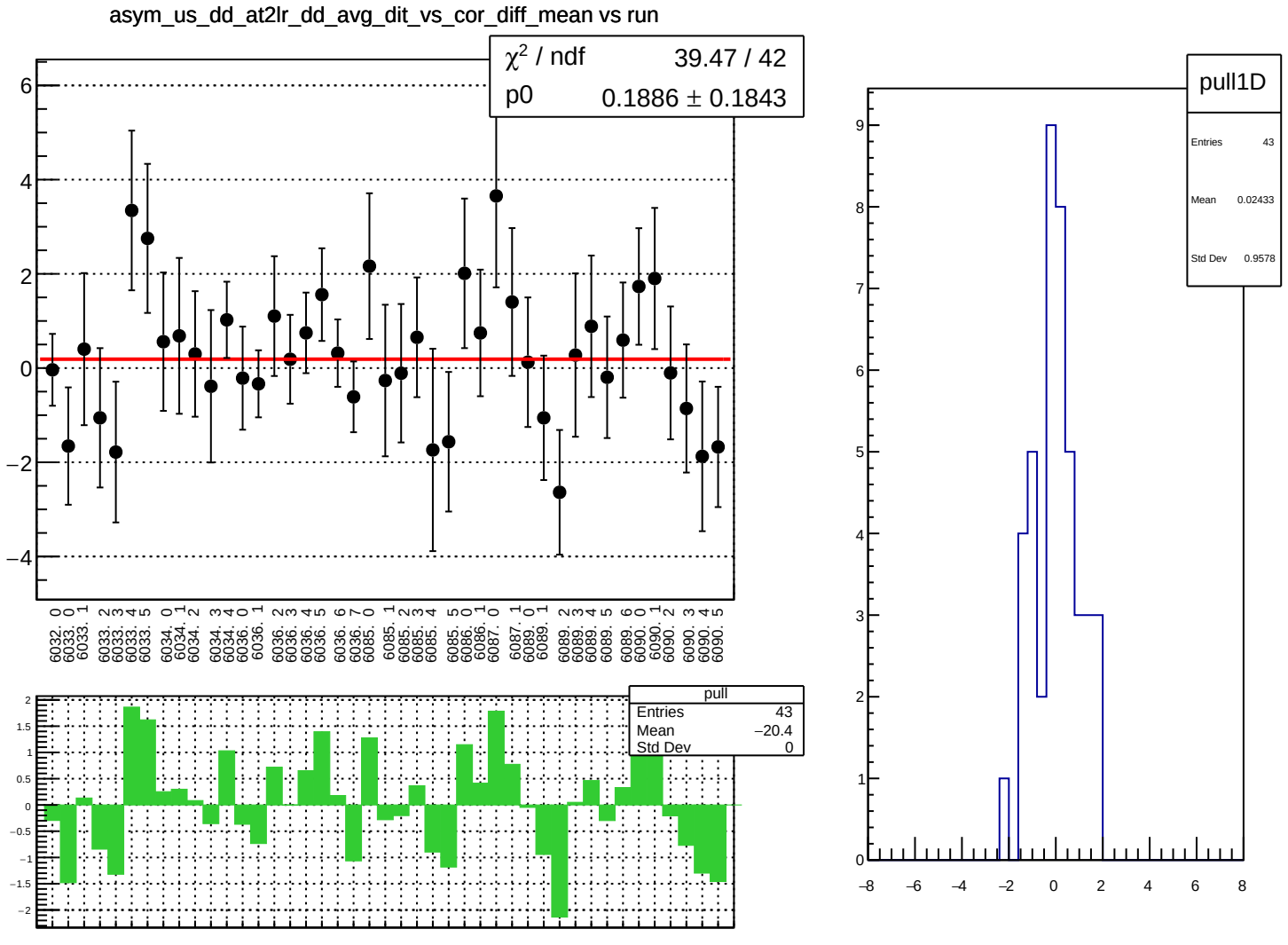

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 41.81 / 42
p0 4487 ± 4991
×10³
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.86
Std Dev 14
3
2
1
0
−1
−2

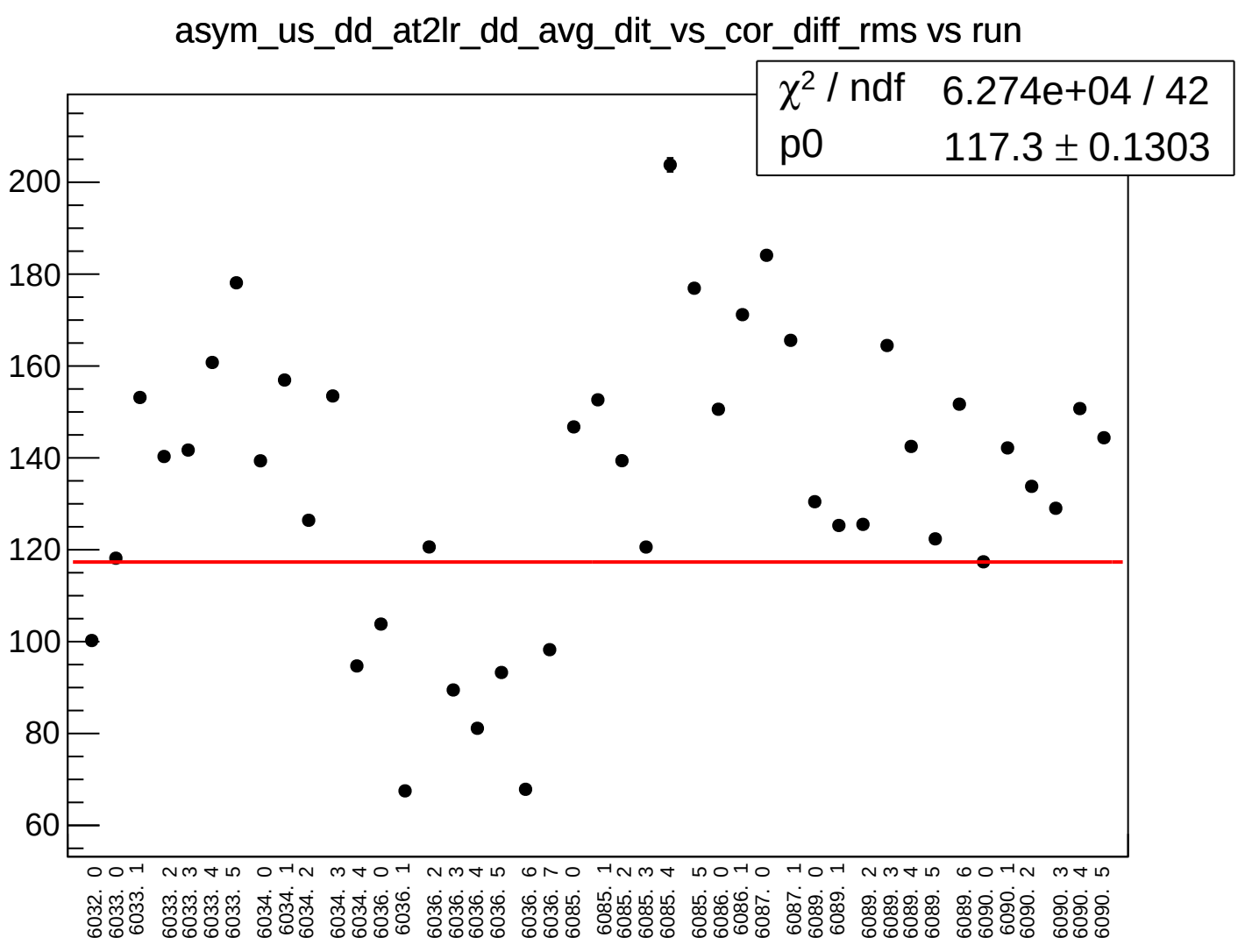

pull1D
Entries 43
Mean −0.009967
Std Dev 0.986
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

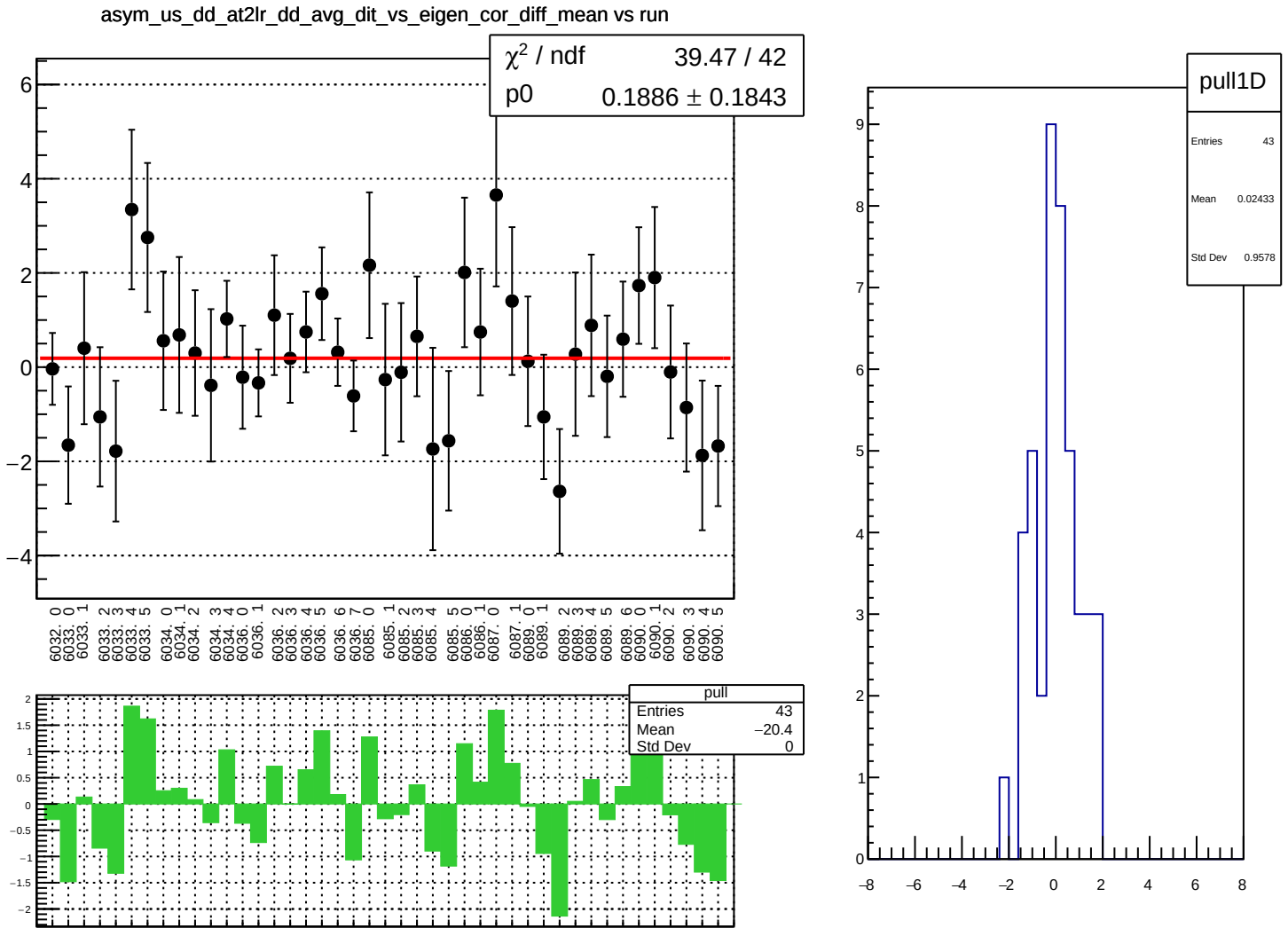

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 7637 / 42
p0 3283 ± 3.529
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

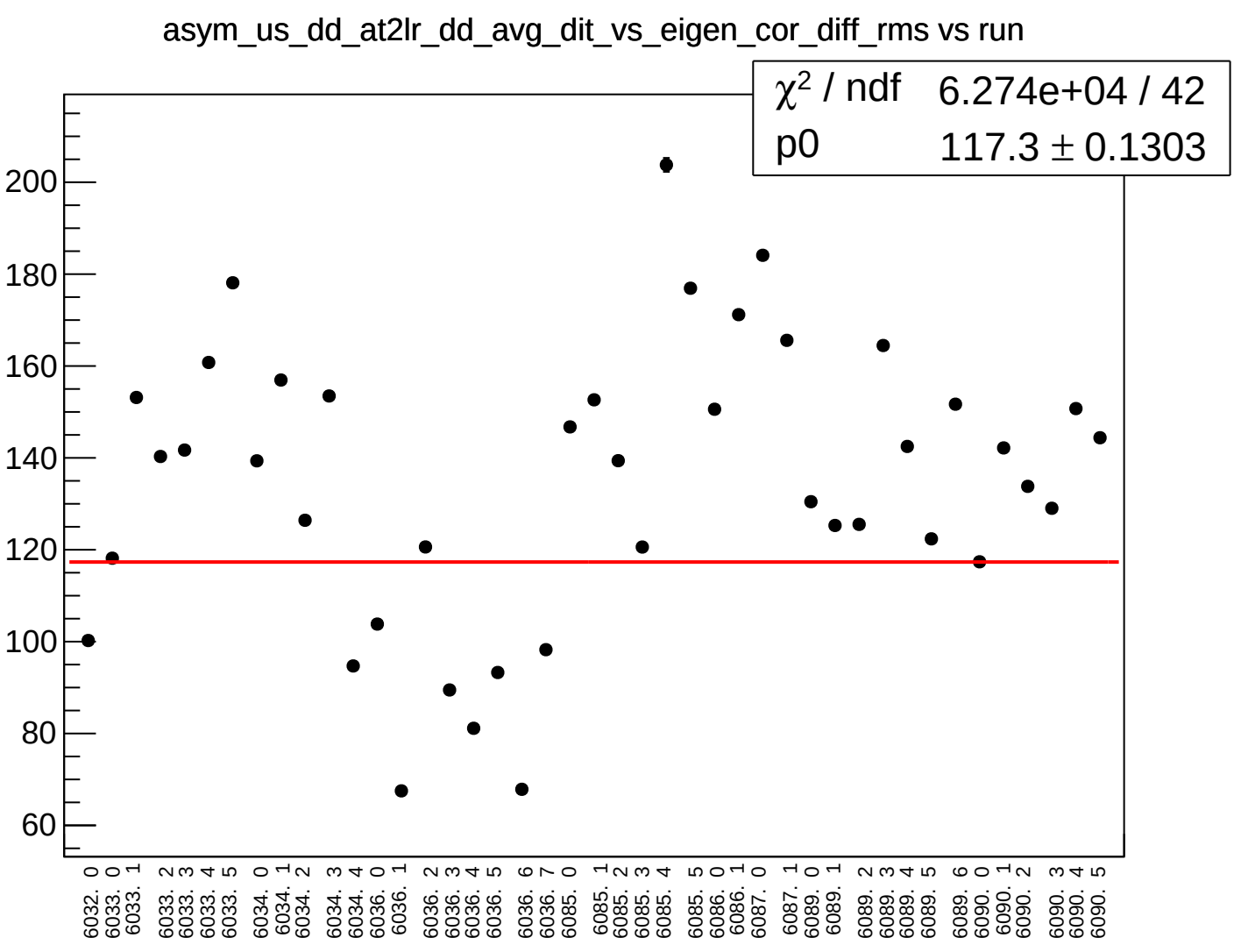

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.35 / 42
p0 3.554e−13 ± 2.911e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −146.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01237
Std Dev 0.8937
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

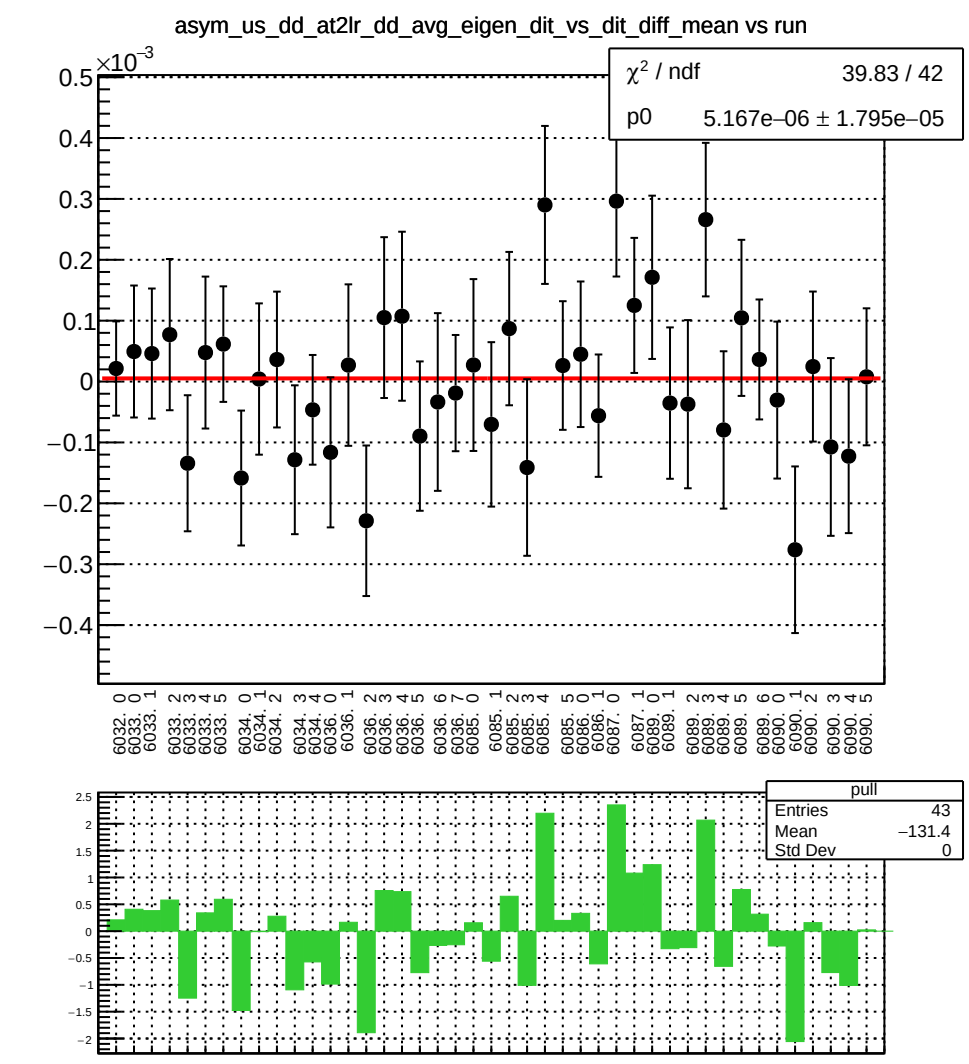

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.03e+05 / 42
p0 1.252e−10 ± 2.059e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

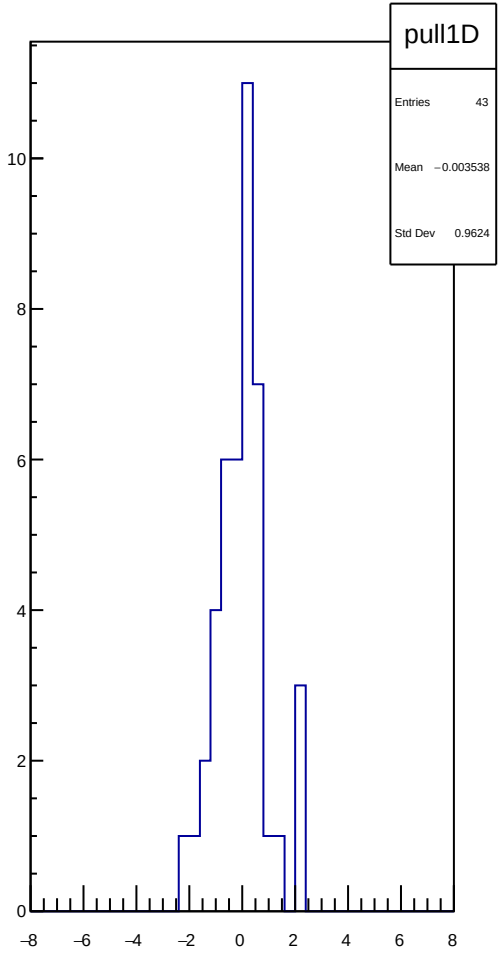

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.47 / 42
p0 0.1886 ± 0.1843
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −20.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02433
Std Dev 0.9578
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

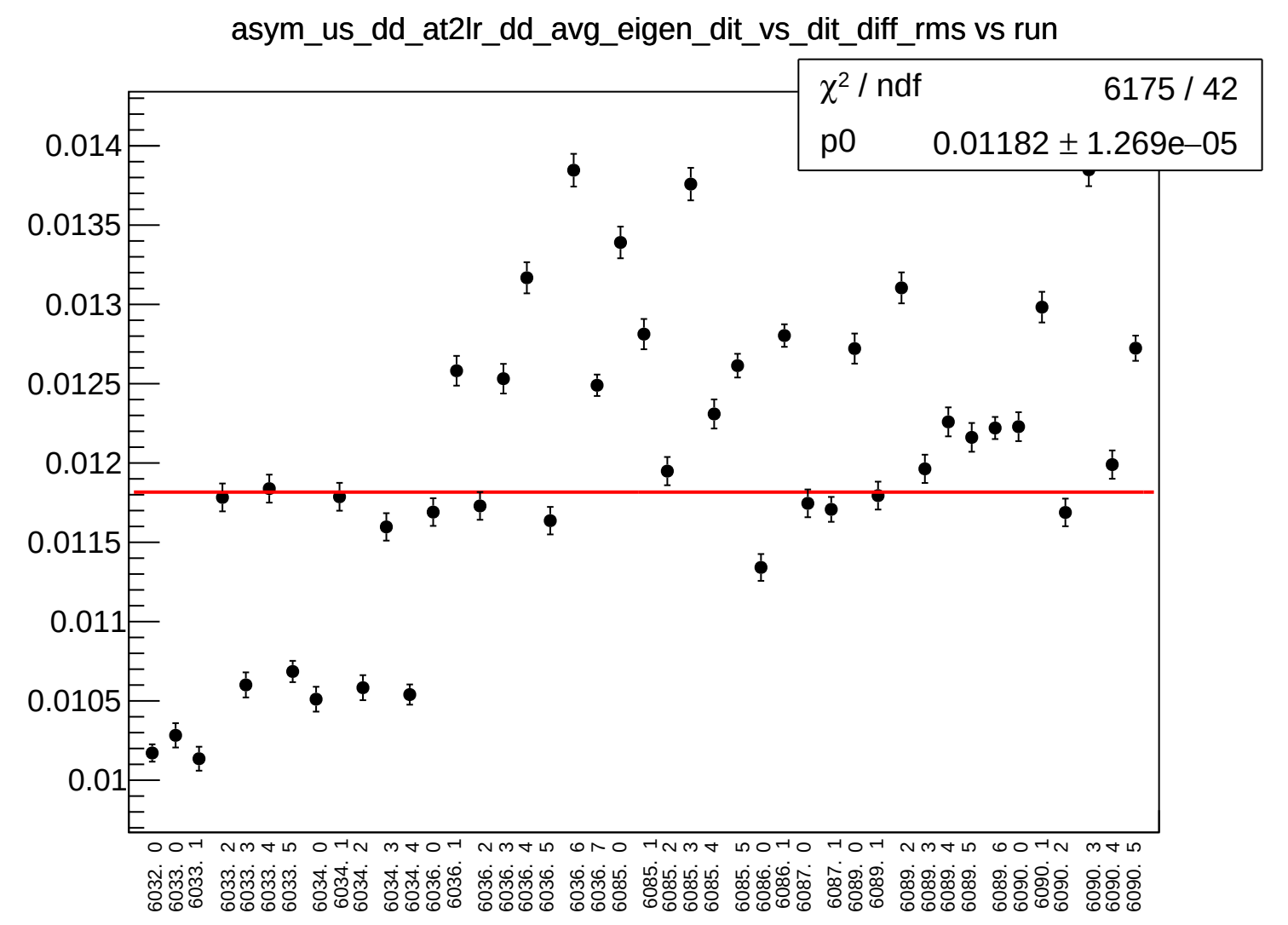

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.274e+04 / 42
p0 117.3 ± 0.1303
200
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

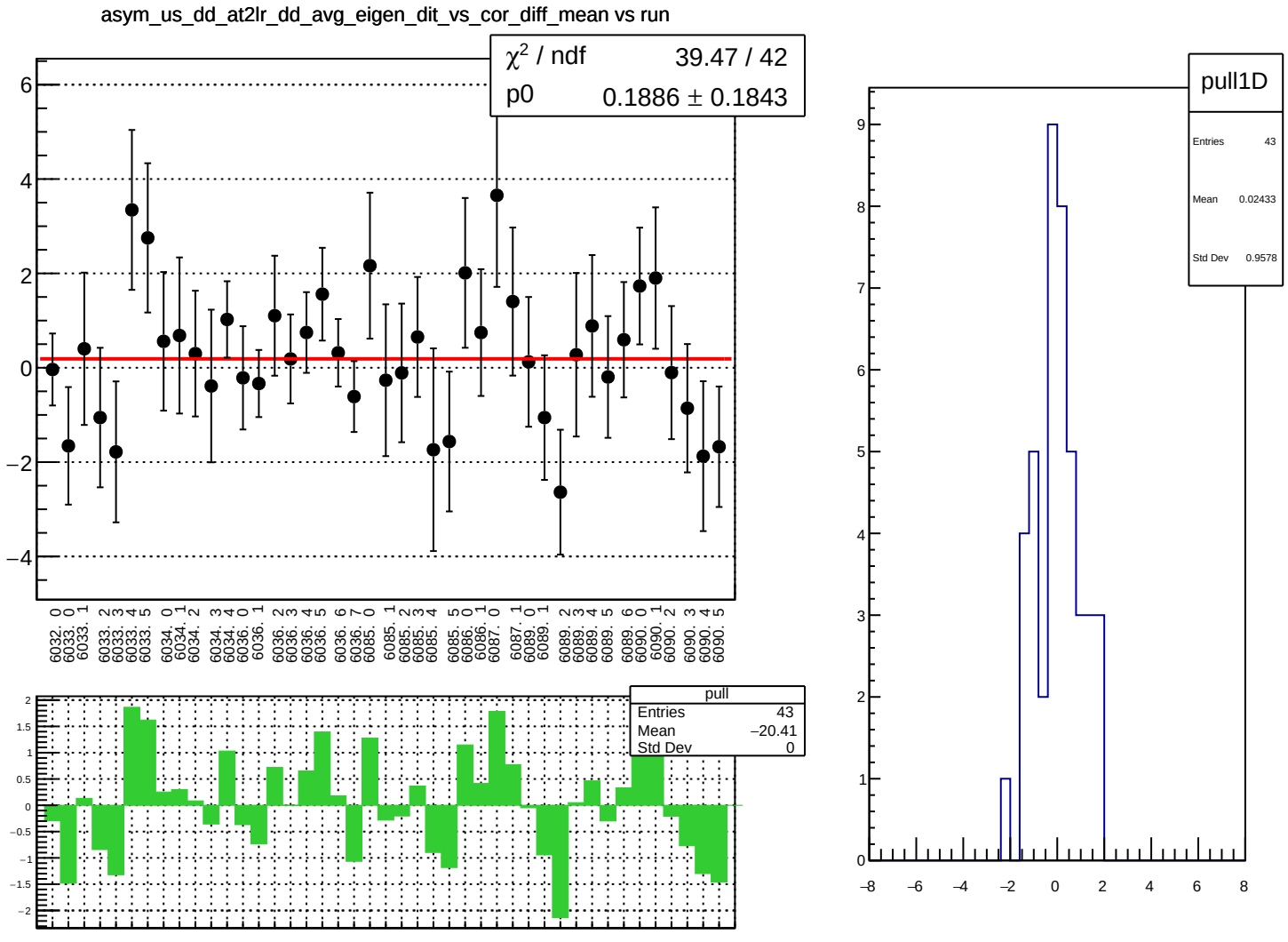

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.47 / 42
p0 0.1886 ± 0.1843
pull
Entries 43
Mean −20.4
Std Dev 0
pull1D
Entries 43
Mean 0.02433
Std Dev 0.9578

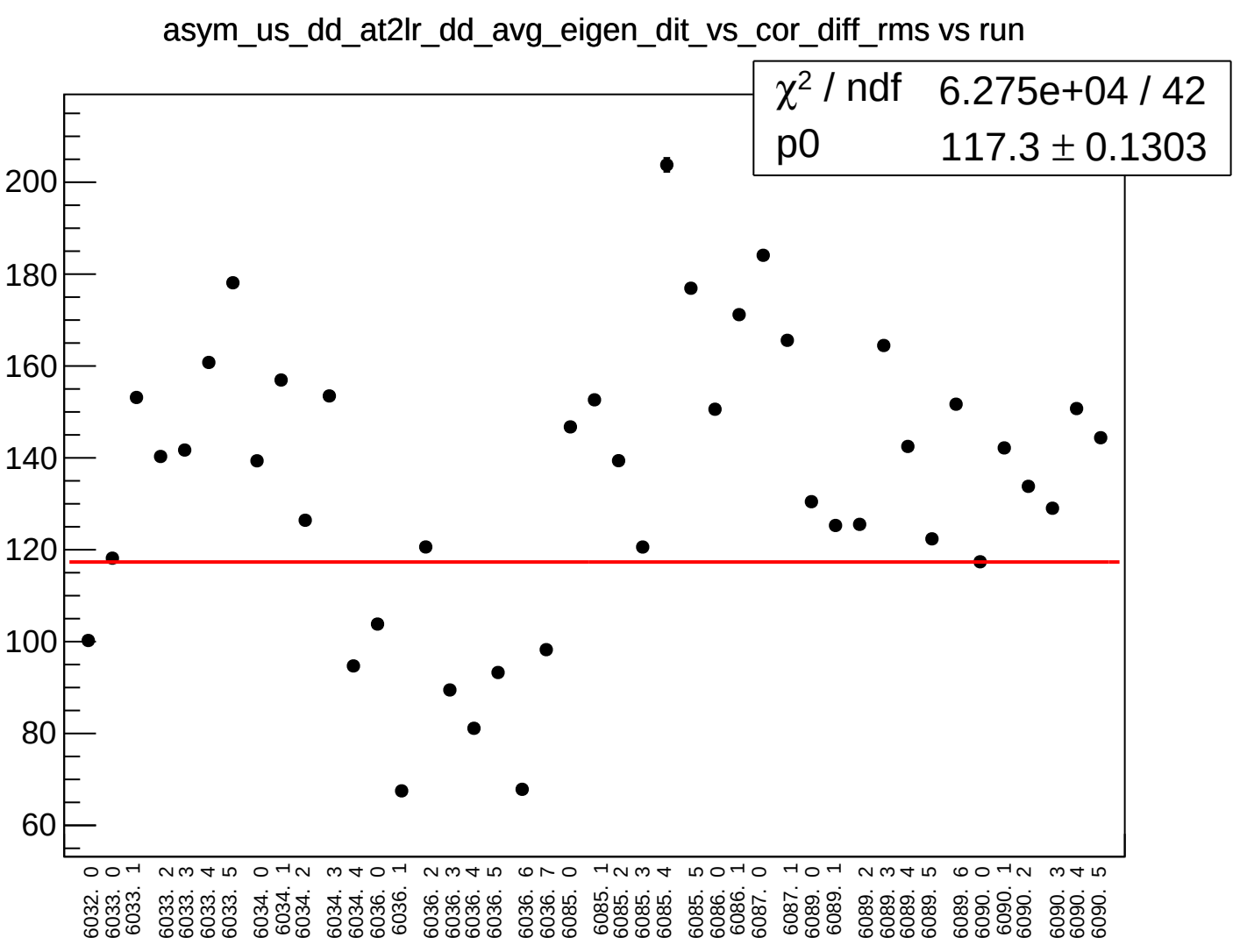

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.274e+04 / 42
p0 117.3 ± 0.1303
200
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

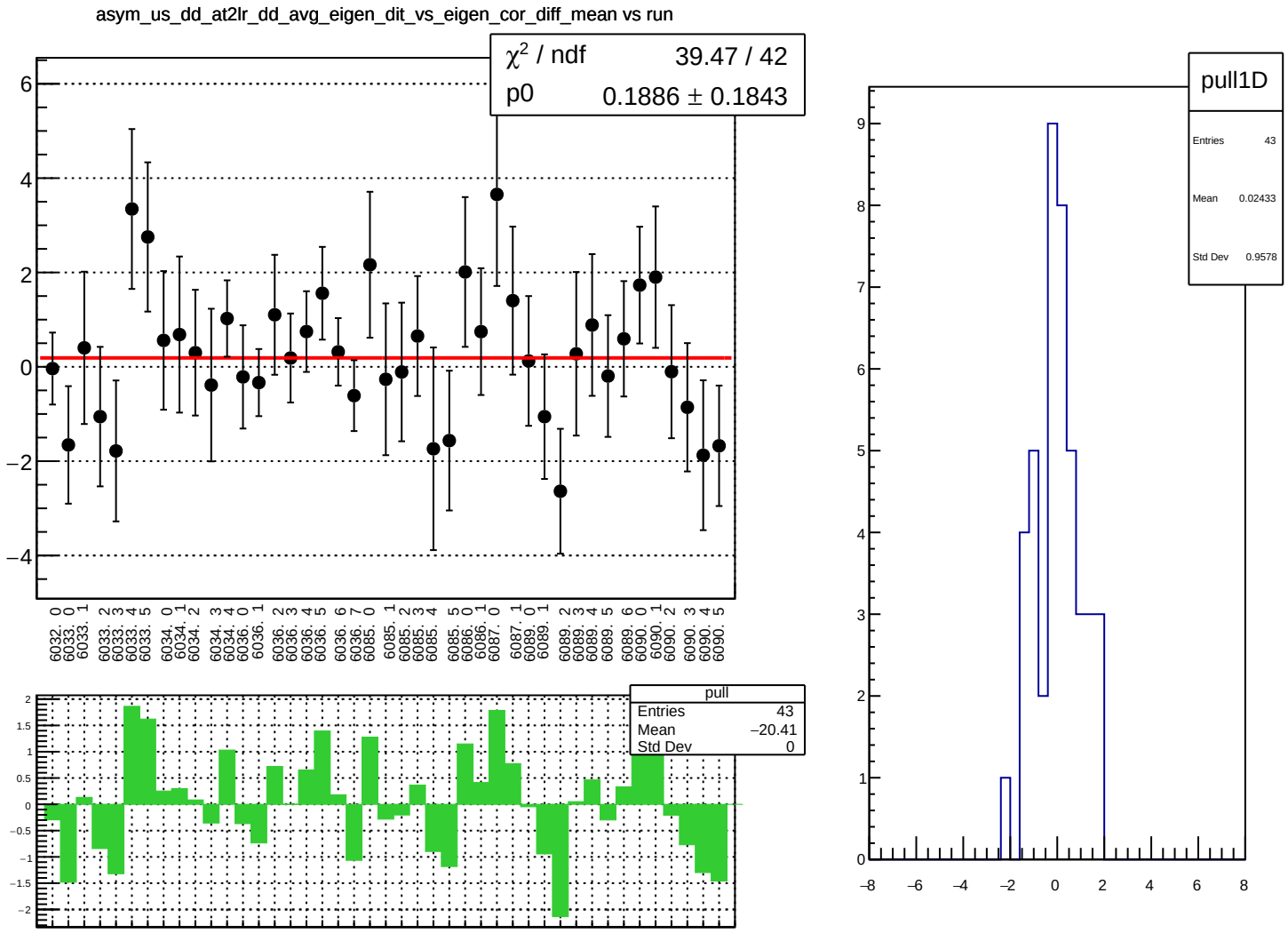

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.83 / 42
p0 5.167e−06 ± 1.795e−05
pull
Entries 43
Mean −131.4
Std Dev 0

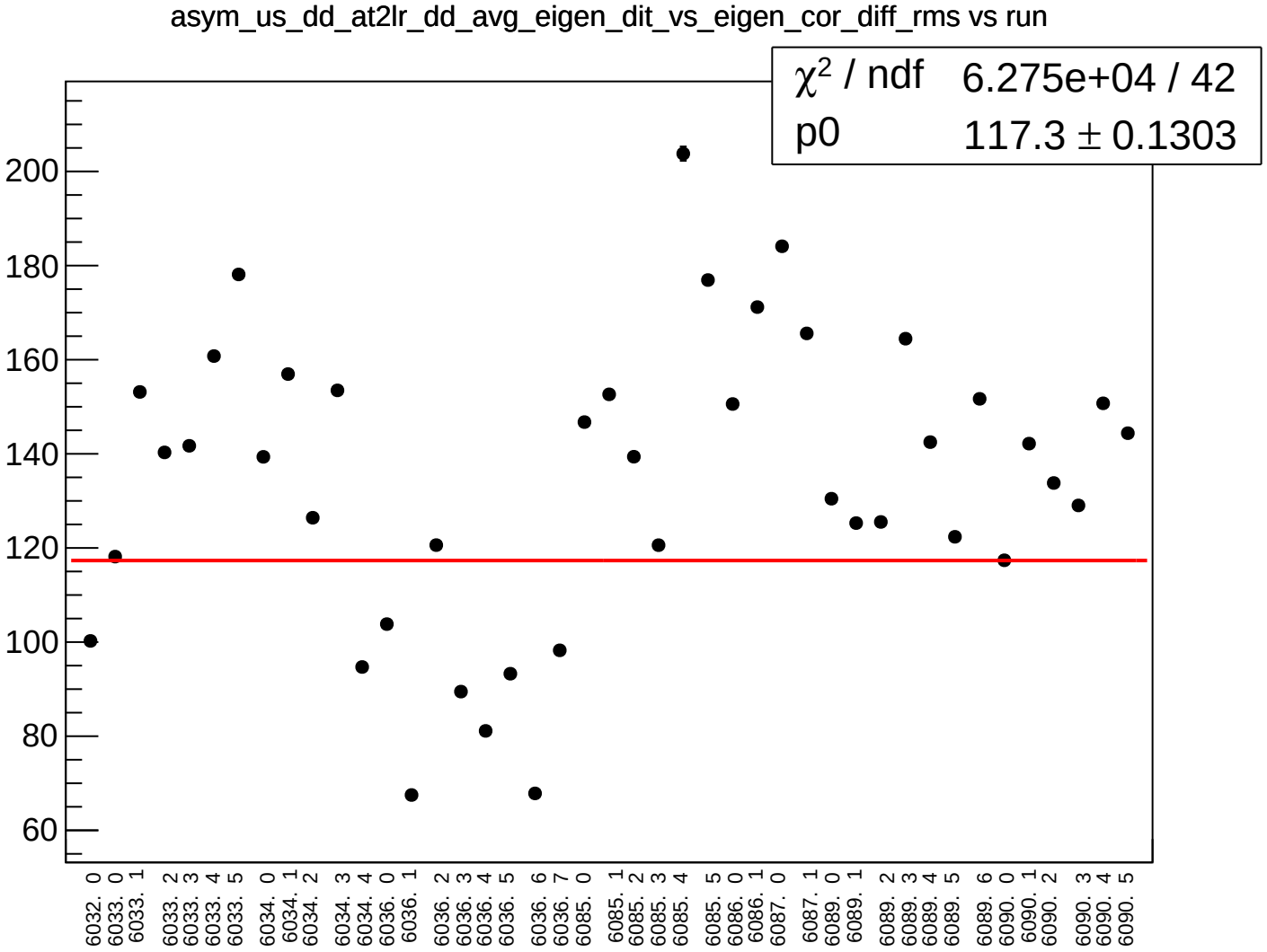

pull1D
Entries 43
Mean −0.003538
Std Dev 0.9624

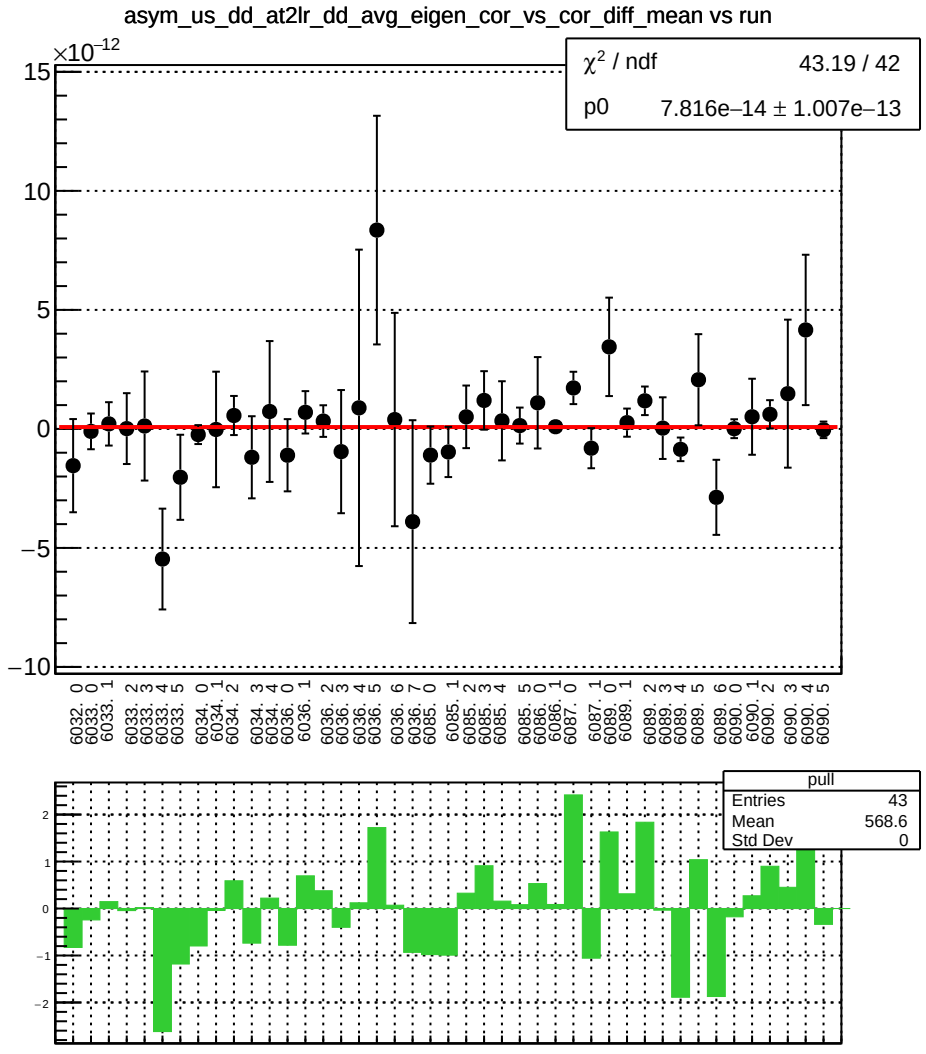

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6175 / 42
p0 0.01182 ± 1.269e−05
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

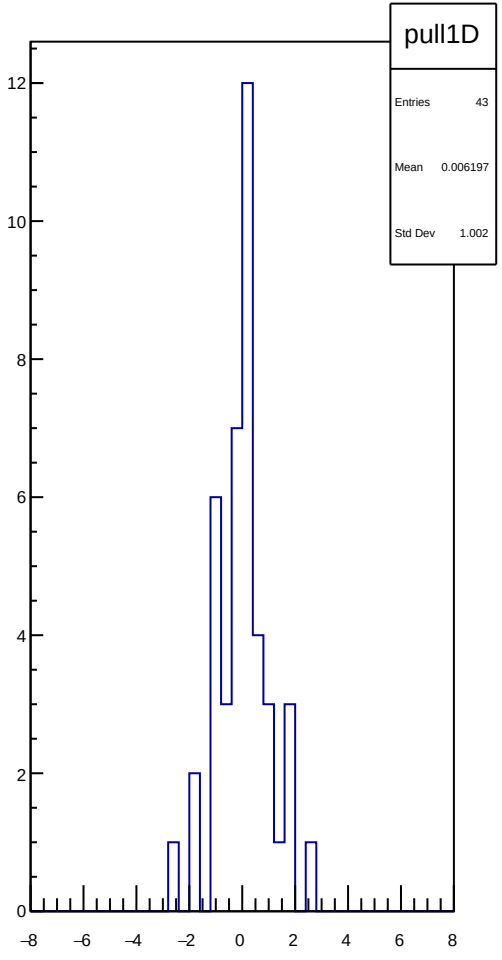

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.47 / 42
p0 0.1886 ± 0.1843
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −20.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02433
Std Dev 0.9578
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

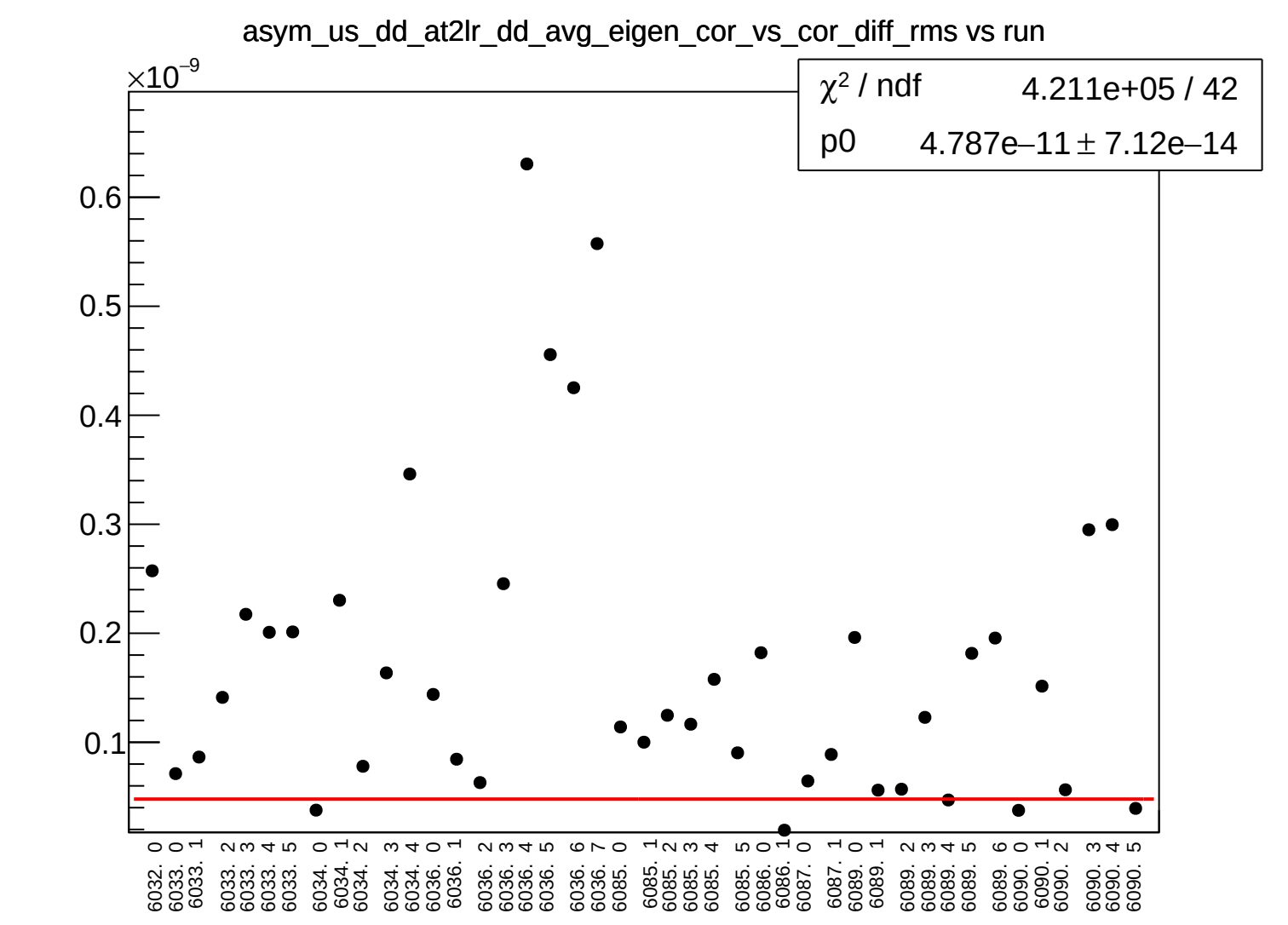

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.275e+04 / 42
p0 117.3 ± 0.1303
200
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

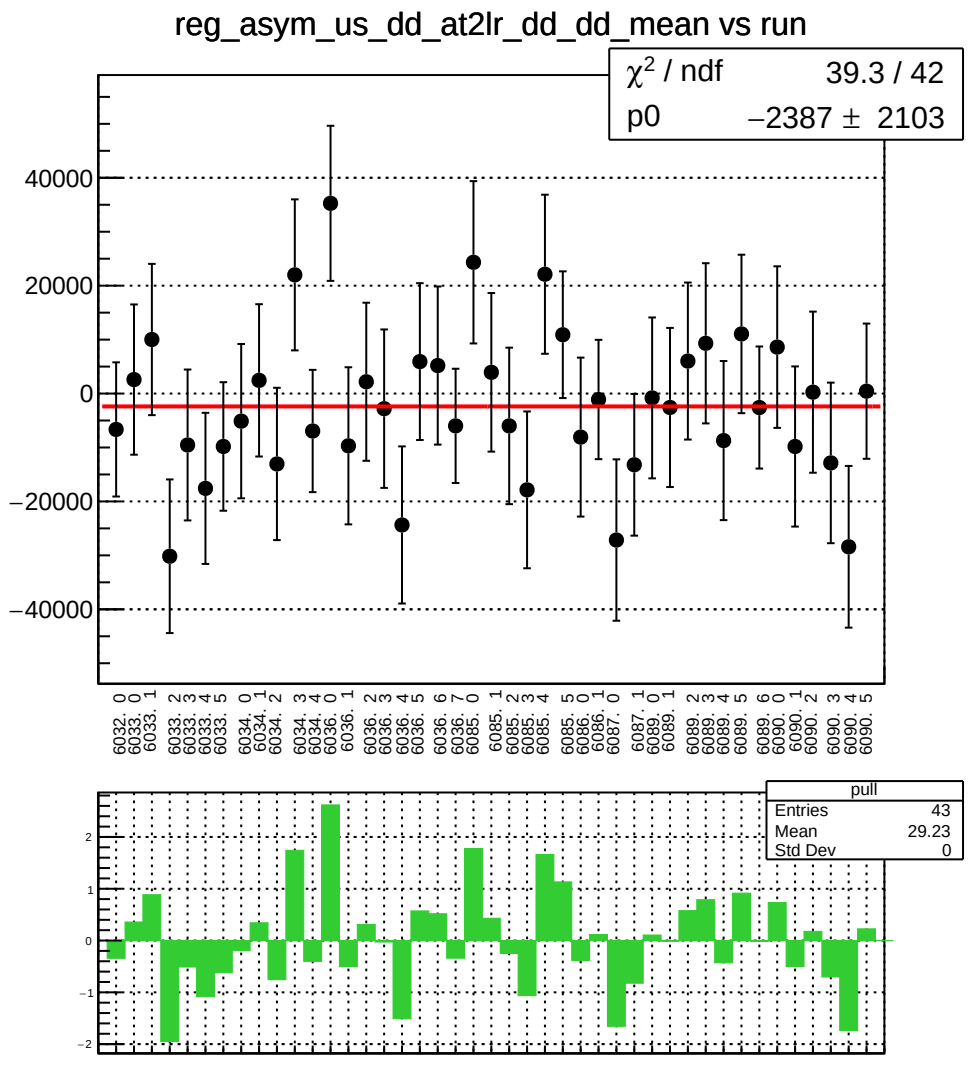

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.47 / 42
p0 0.1886 ± 0.1843
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −20.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02433
Std Dev 0.9578
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

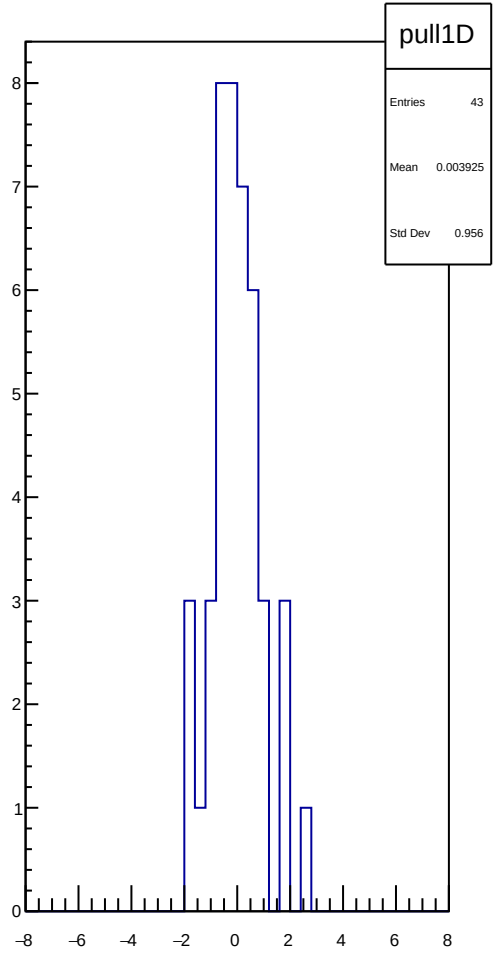

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.275e+04 / 42
p0 117.3 ± 0.1303
200
180
160
140
120
100
80
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

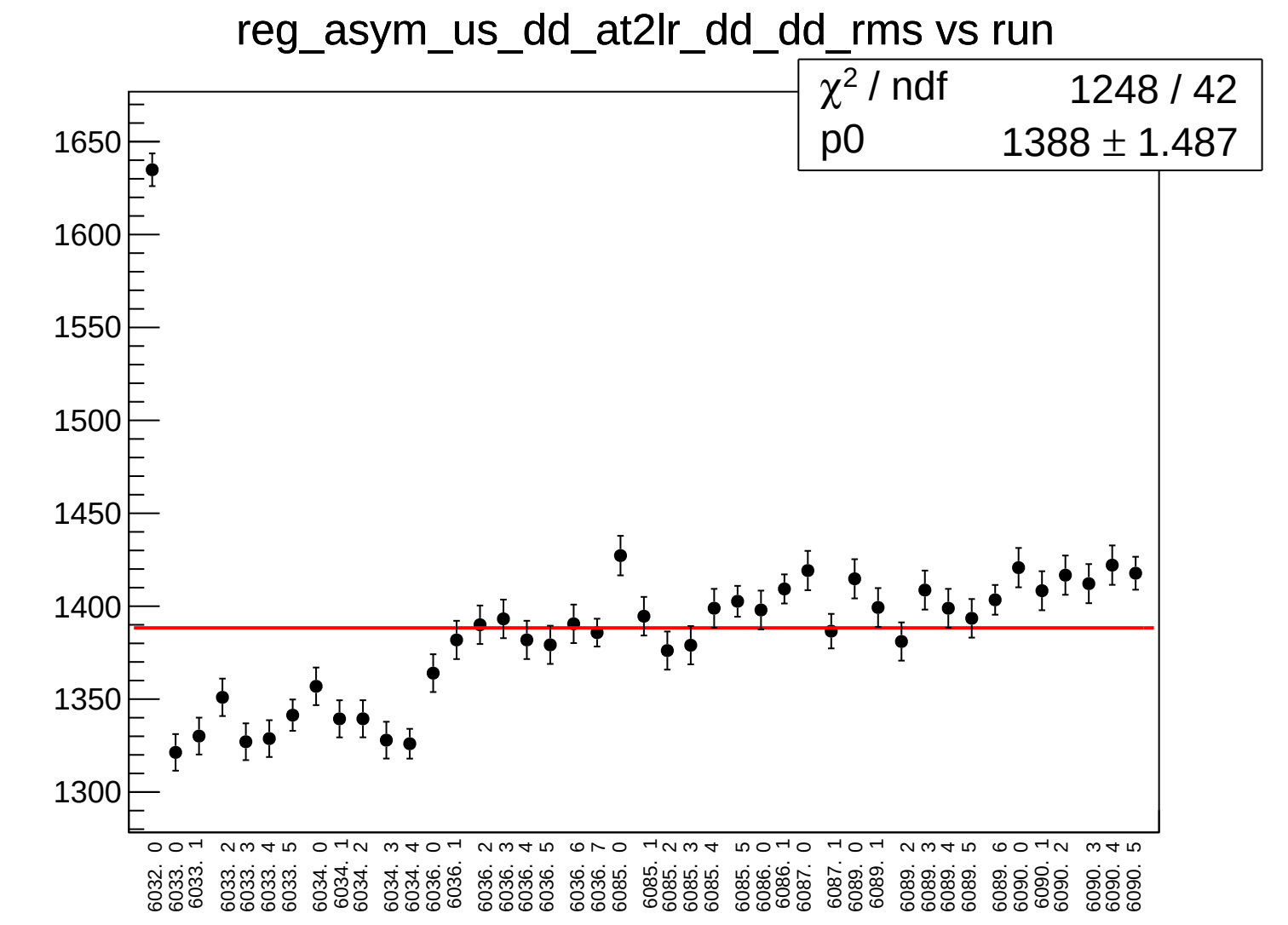

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.19 / 42
p0 7.816e−14 ± 1.007e−13
15
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 568.6
Std Dev 0
2
1
0
−1
−2

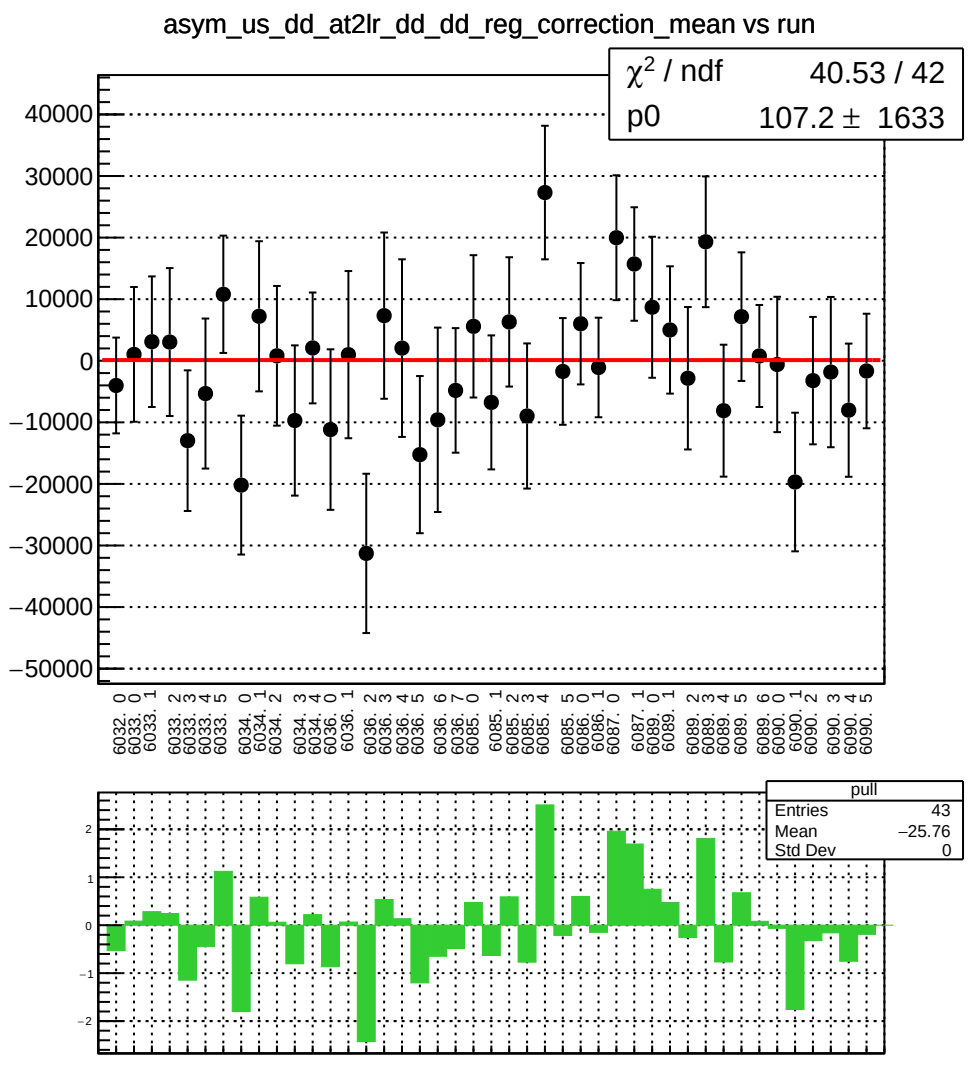

pull1D
Entries 43
Mean 0.006197
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

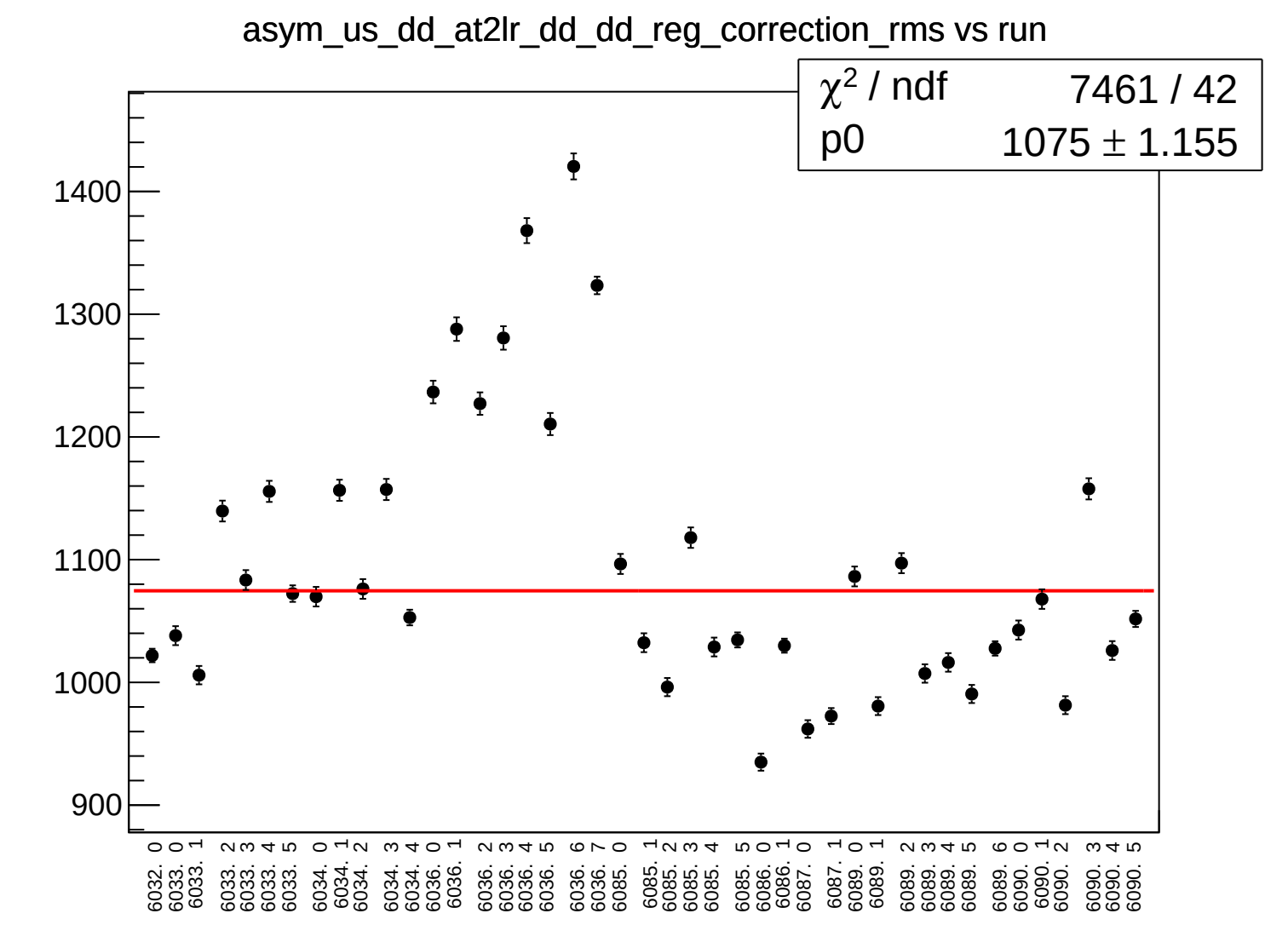

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.211e+05 / 42
p0 4.787e−11 ± 7.12e−14
0.6
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

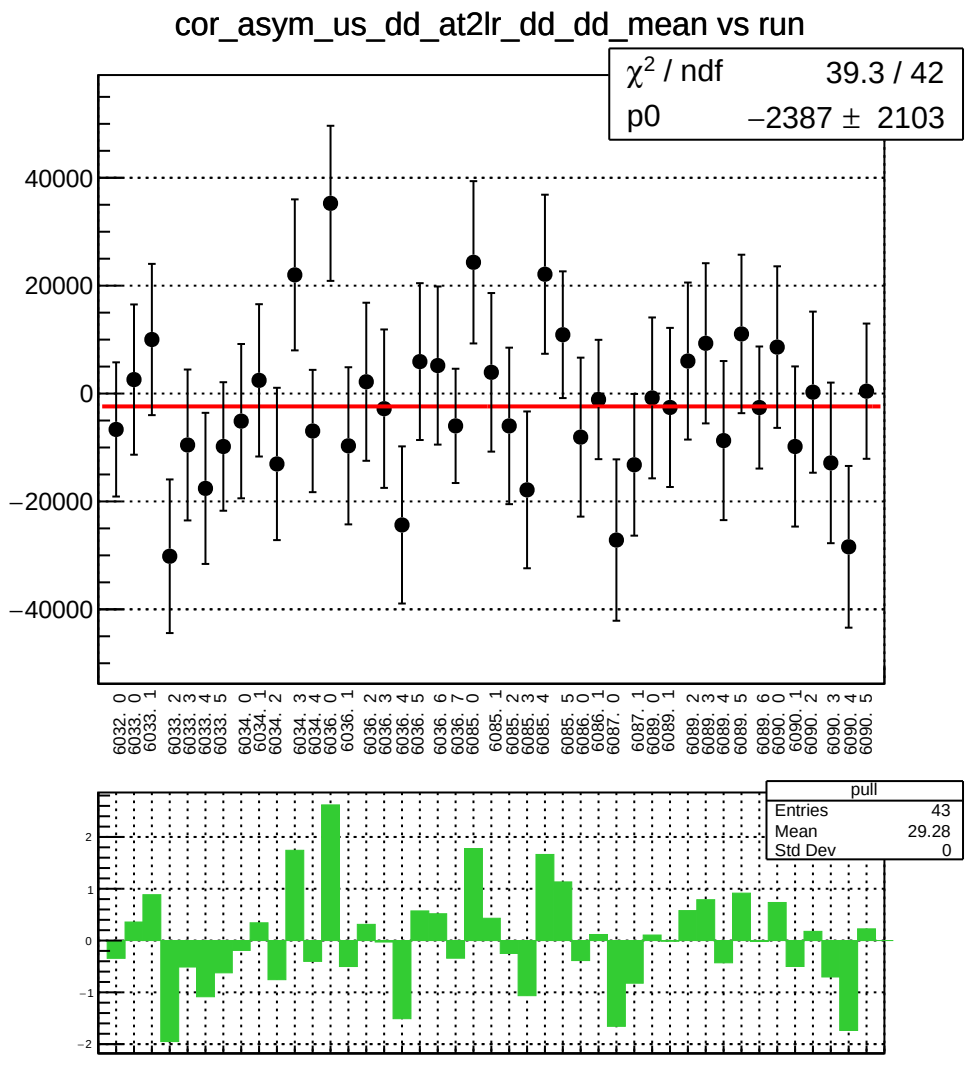

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 39.3 / 42
p0 −2387 ± 2103
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 29.23
Std Dev 0
2
1
0
−1
−2

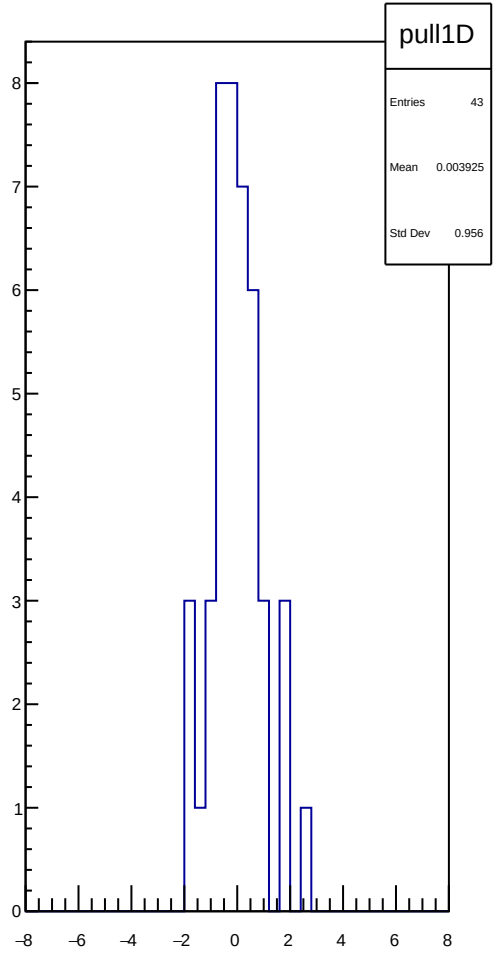

pull1D
Entries 43
Mean 0.003925
Std Dev 0.956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

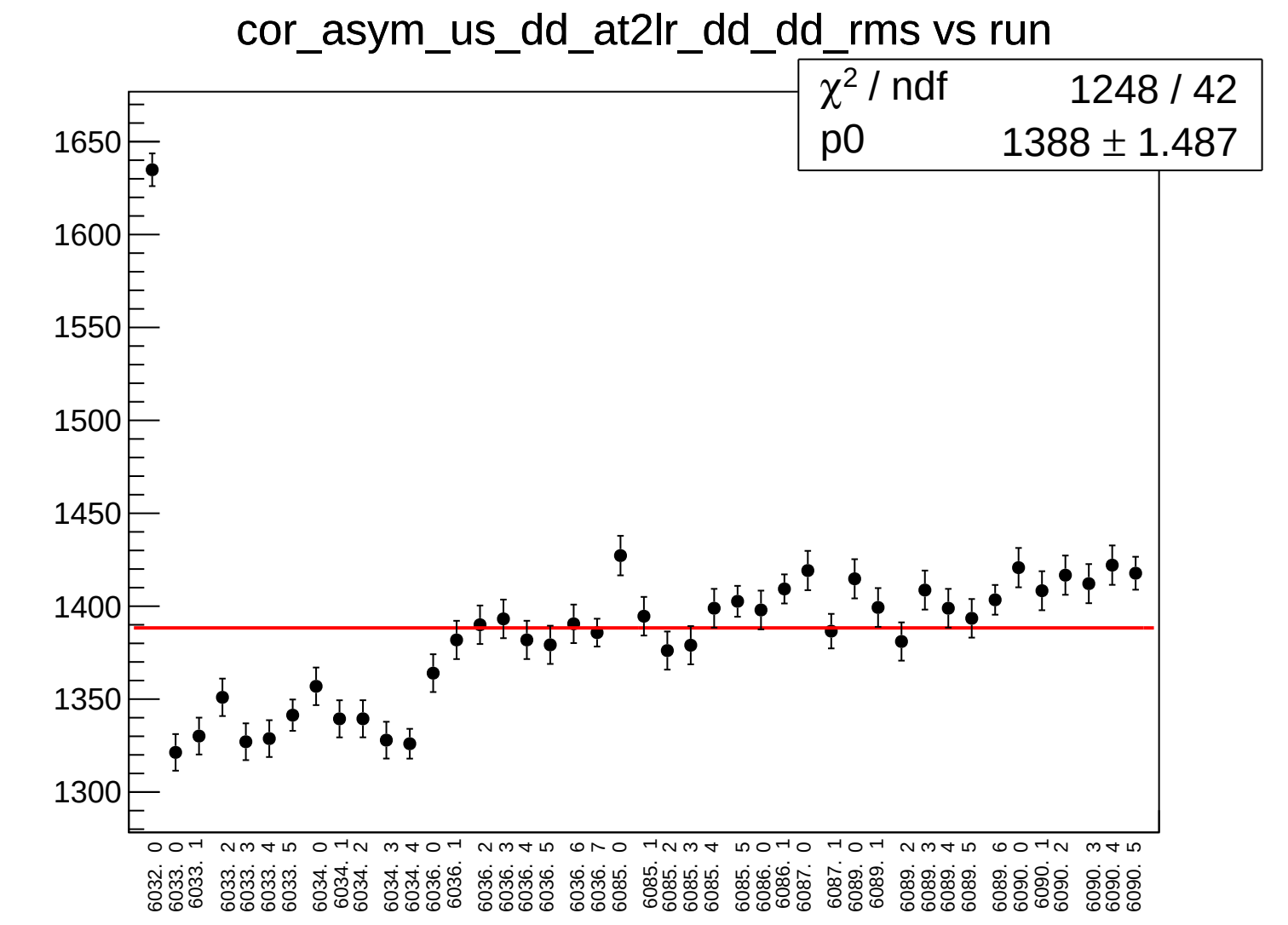

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1248 / 42
p0 1388 ± 1.487
1650
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

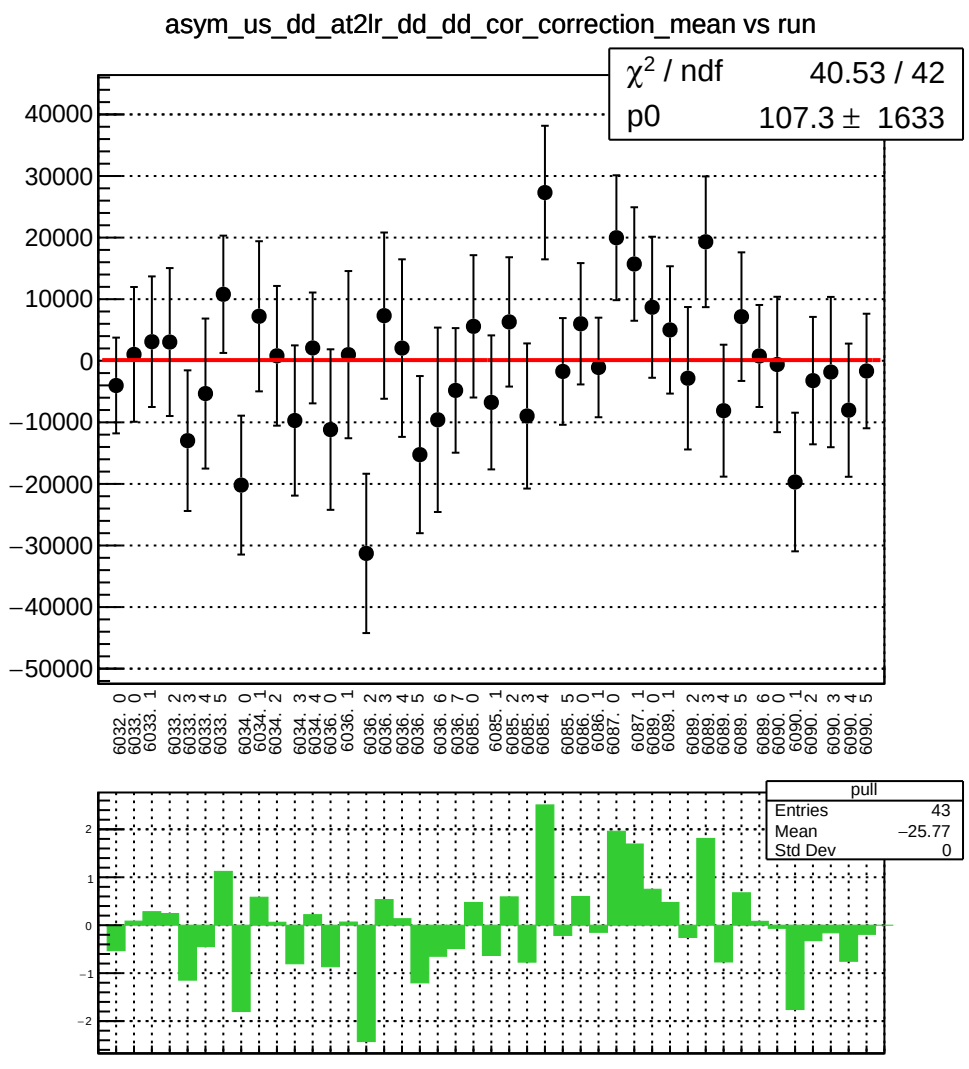

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 40.53 / 42
p0 107.2 ± 1633
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −25.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03347
Std Dev 0.9702
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

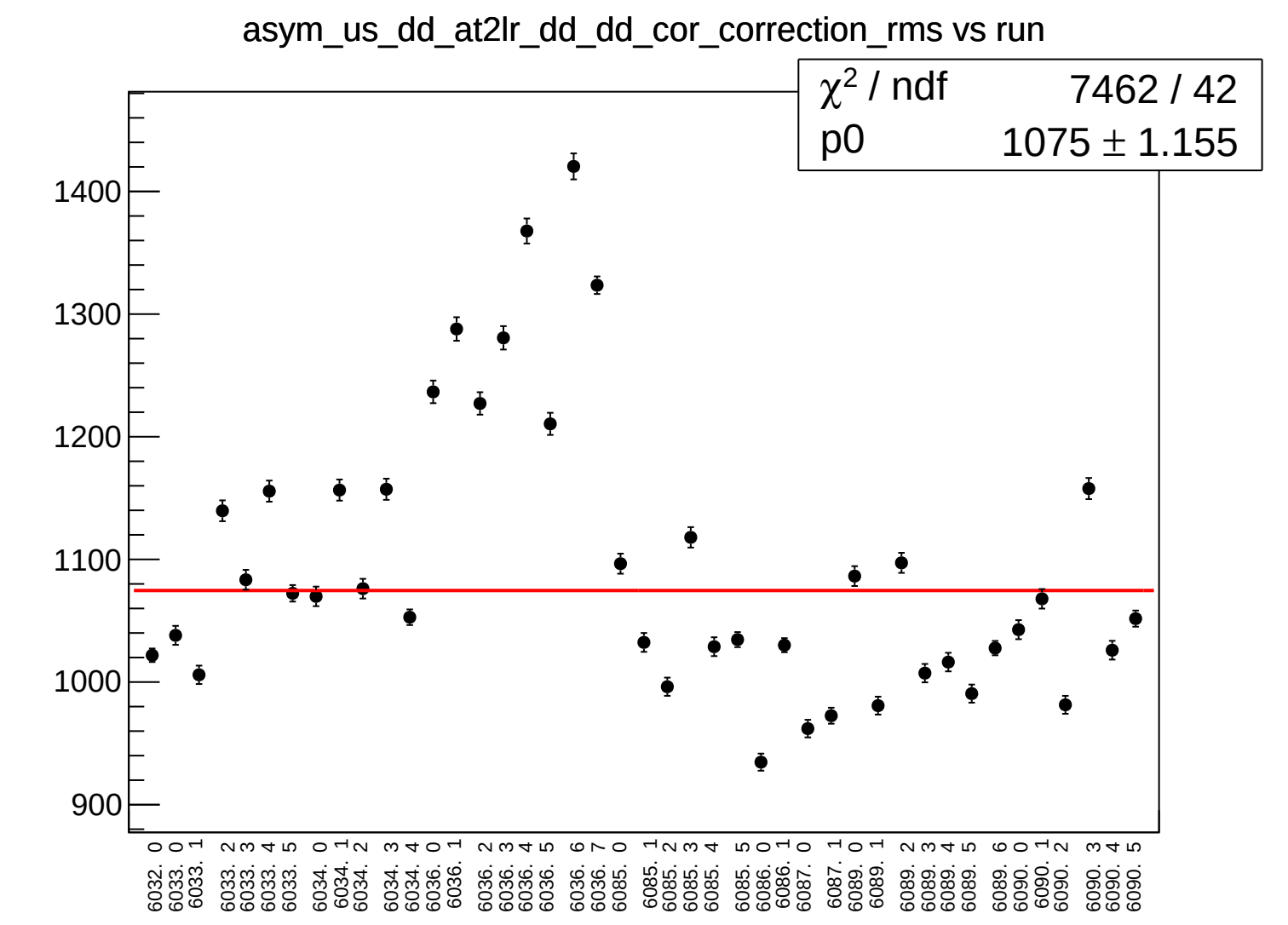

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7461 / 42
p0 1075 ± 1.155
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

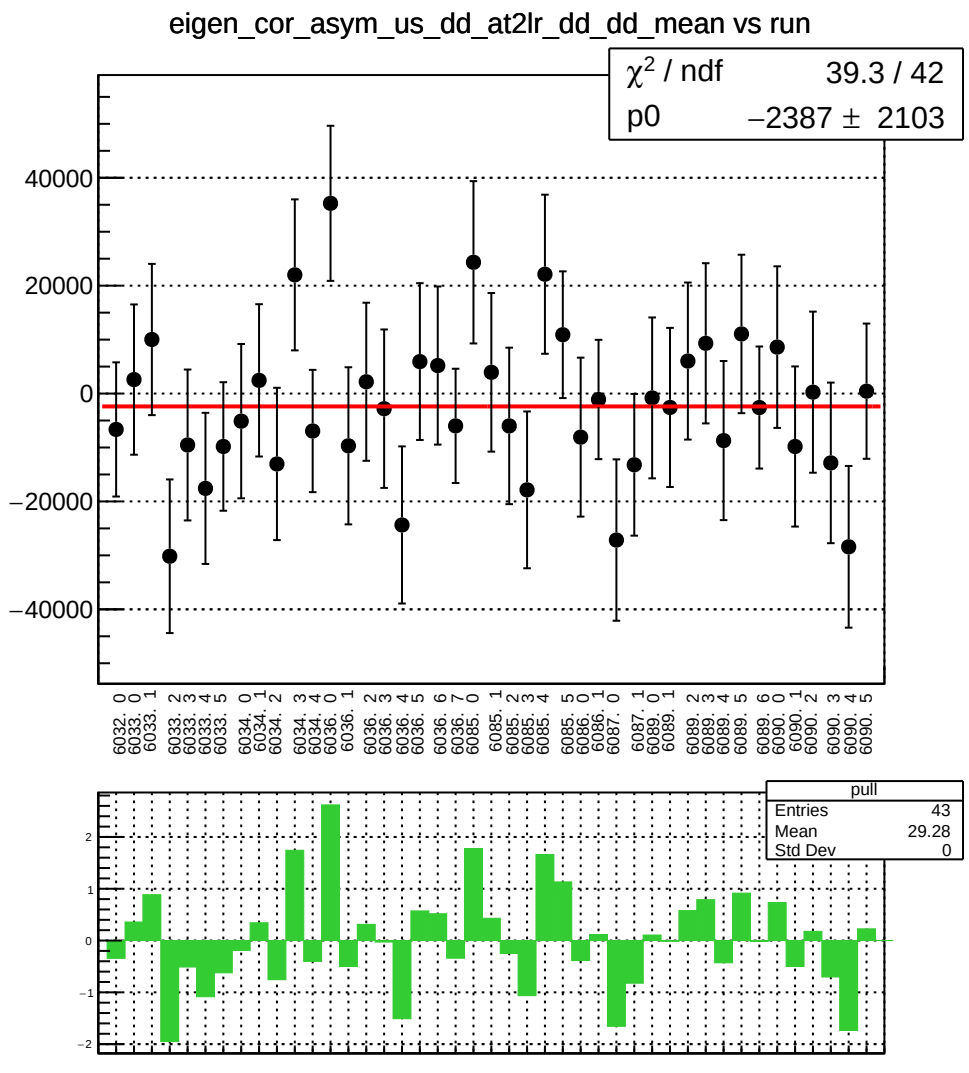

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 39.3 / 42
p0 −2387 ± 2103
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 29.28
Std Dev 0
2
1
0
−1
−2

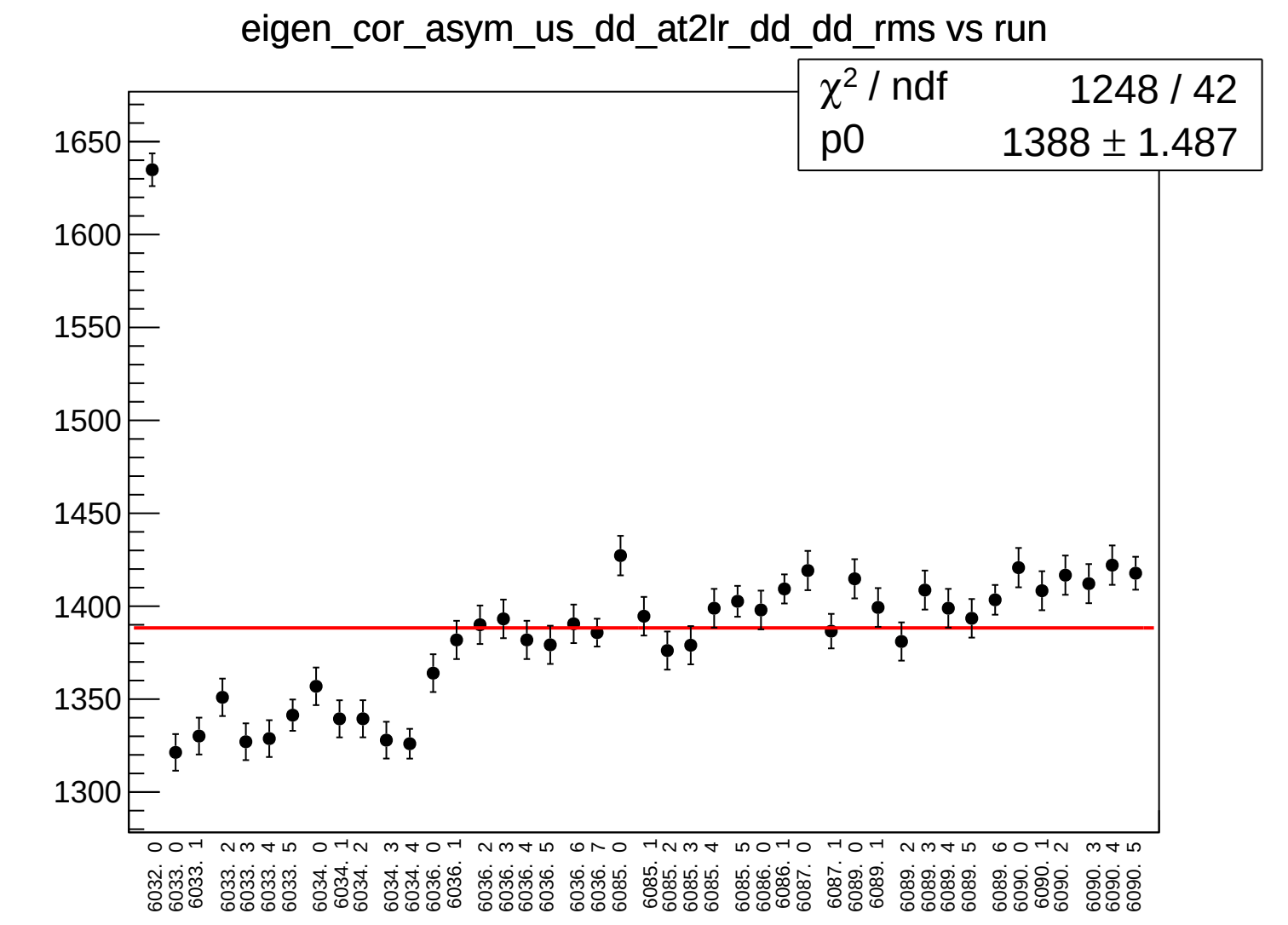

pull1D
Entries 43
Mean 0.003925
Std Dev 0.956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

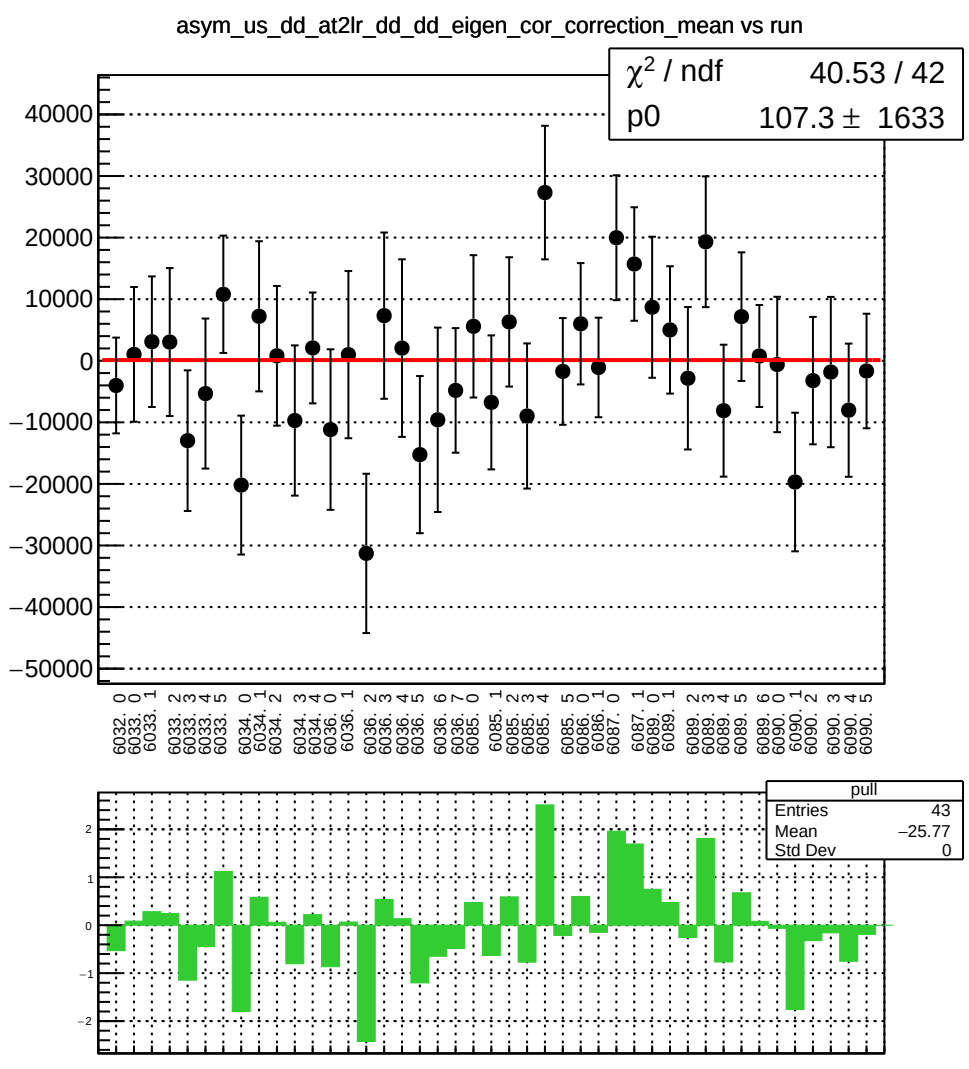

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1248 / 42
p0 1388 ± 1.487
1650
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

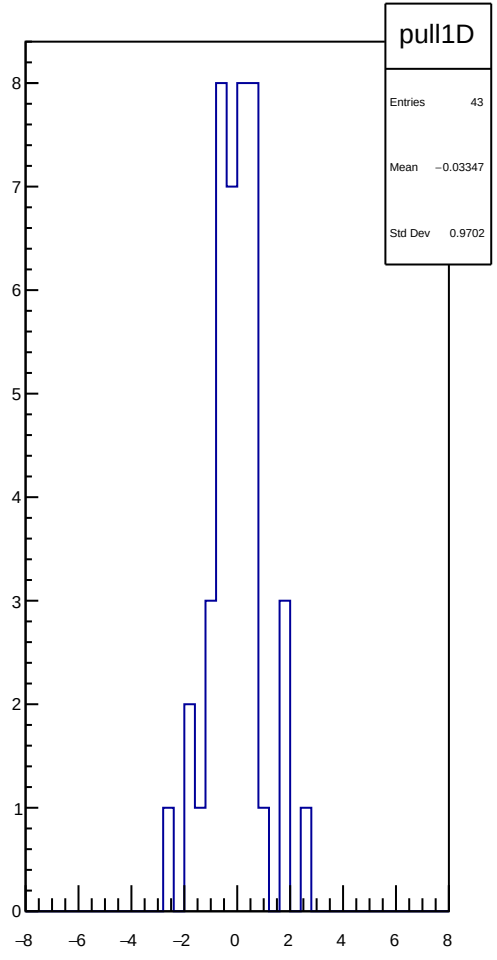

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 40.53 / 42
p0 107.3 ± 1633
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −25.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03347
Std Dev 0.9702
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

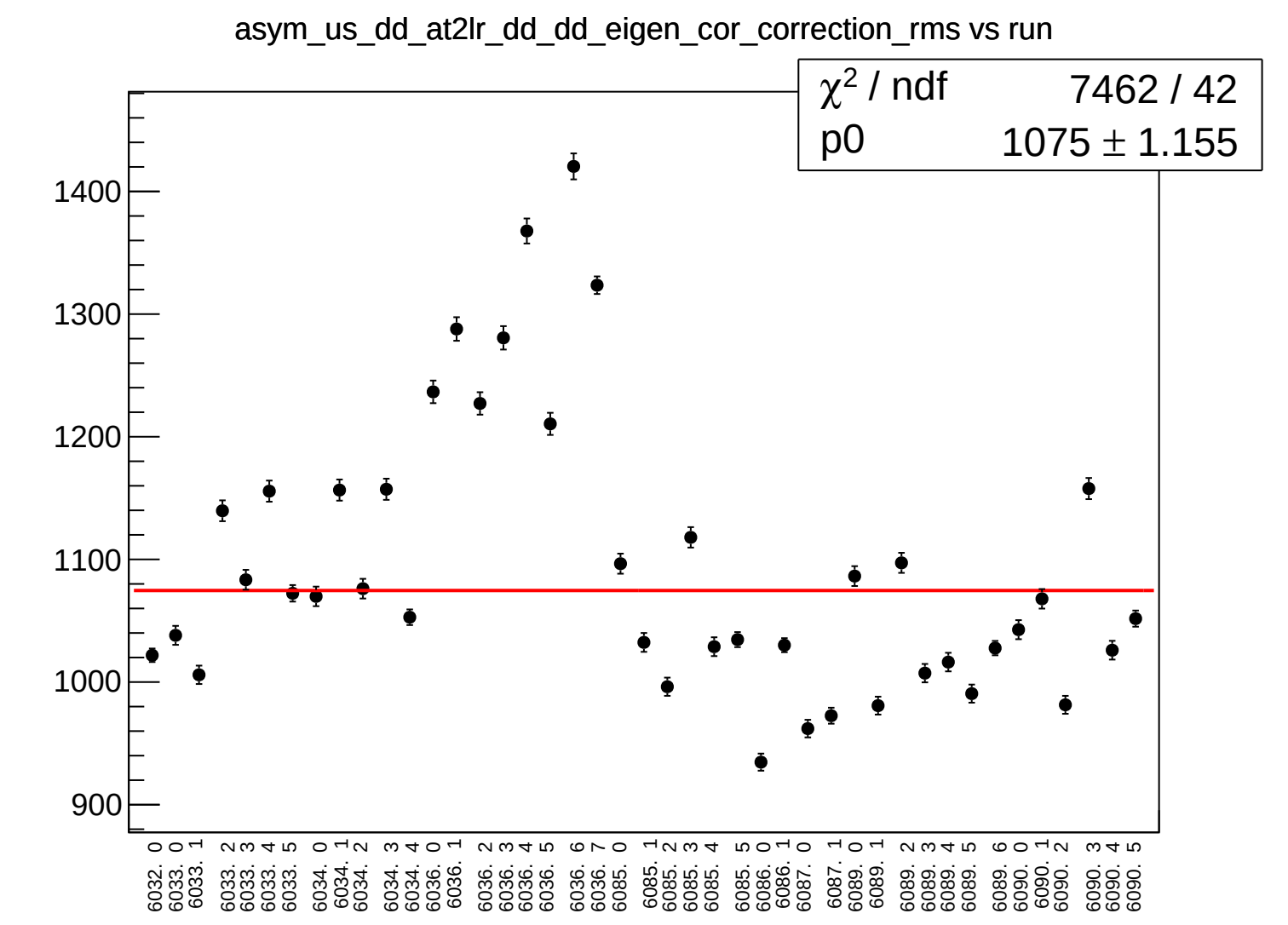

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7462 / 42
p0 1075 ± 1.155
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

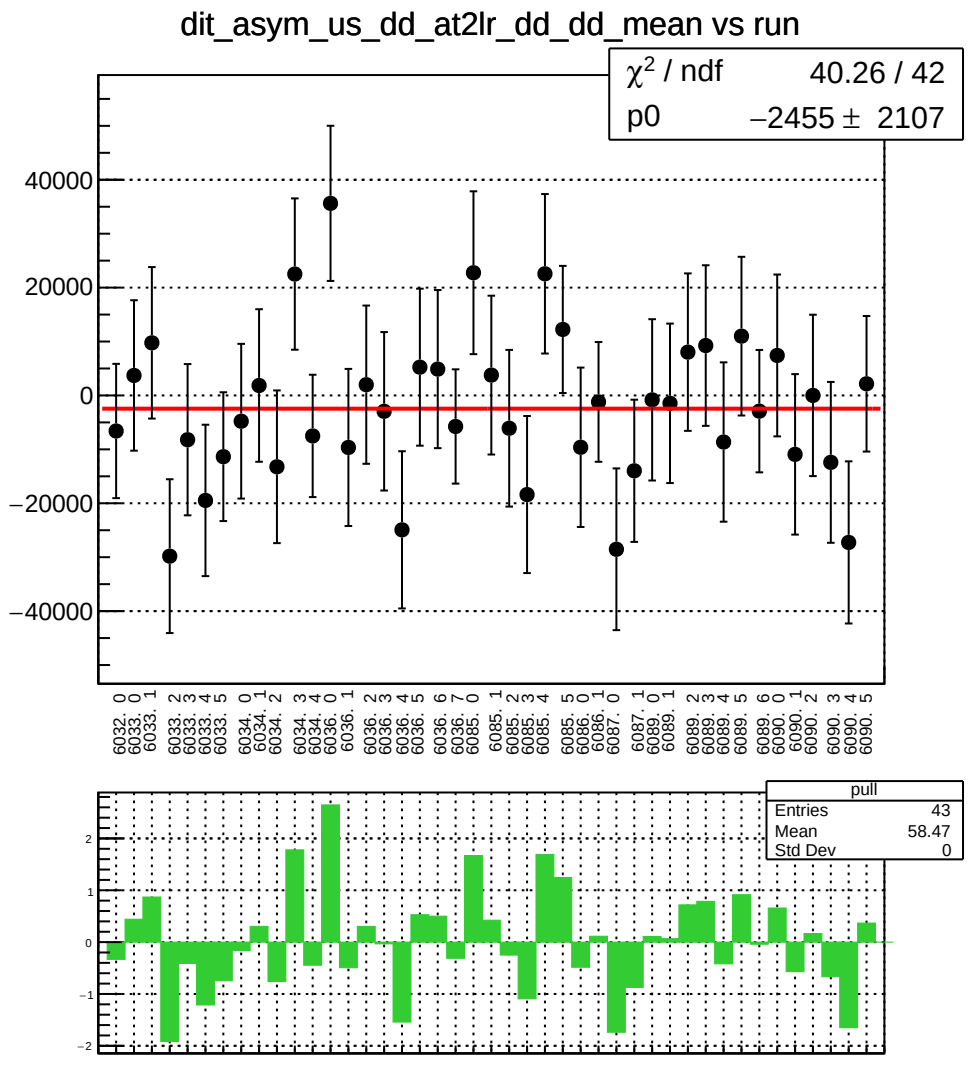

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 39.3 / 42
p0 −2387 ± 2103
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 29.28
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003925
Std Dev 0.956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

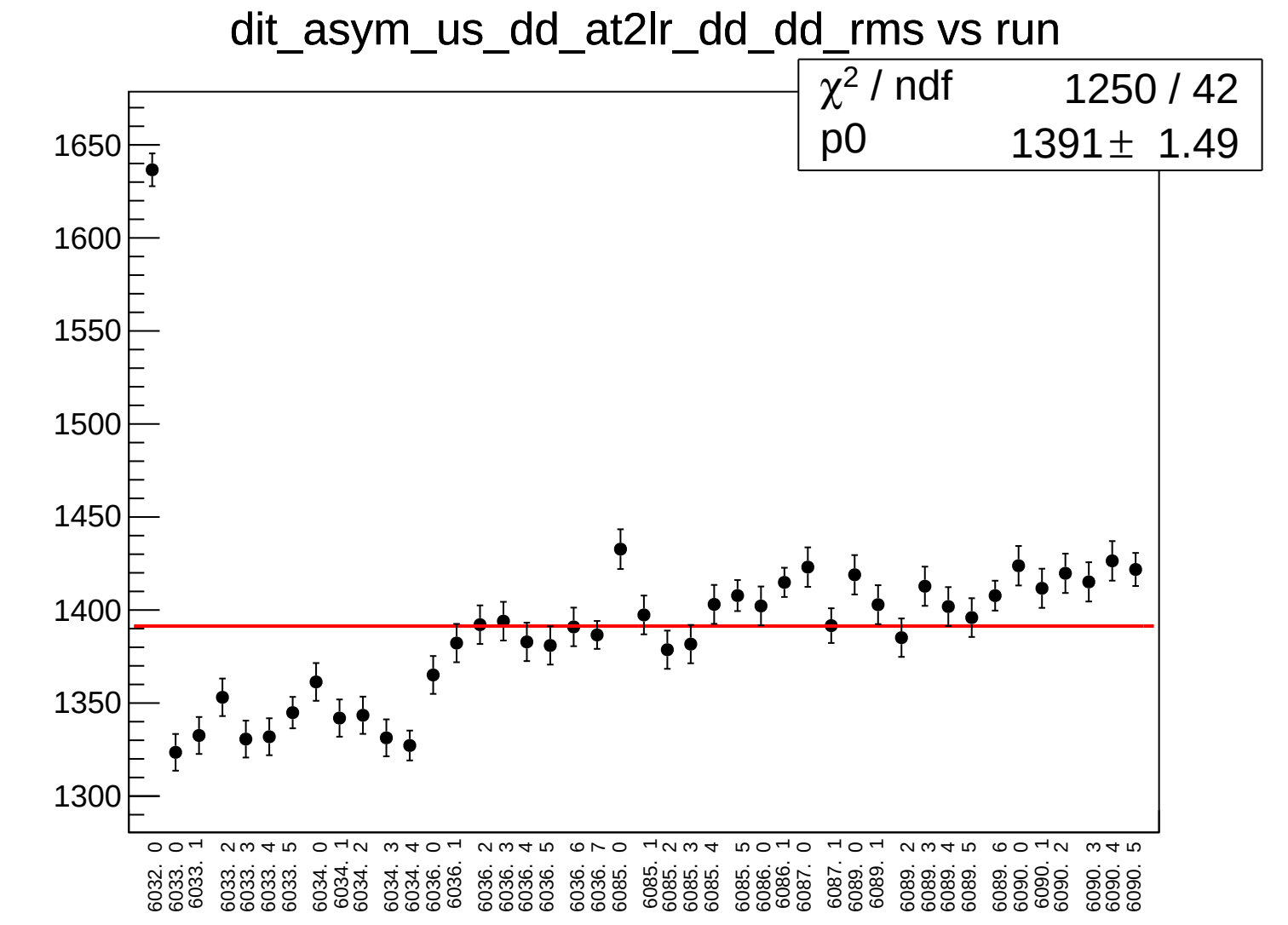

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1248 / 42
p0 1388 ± 1.487
1650
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

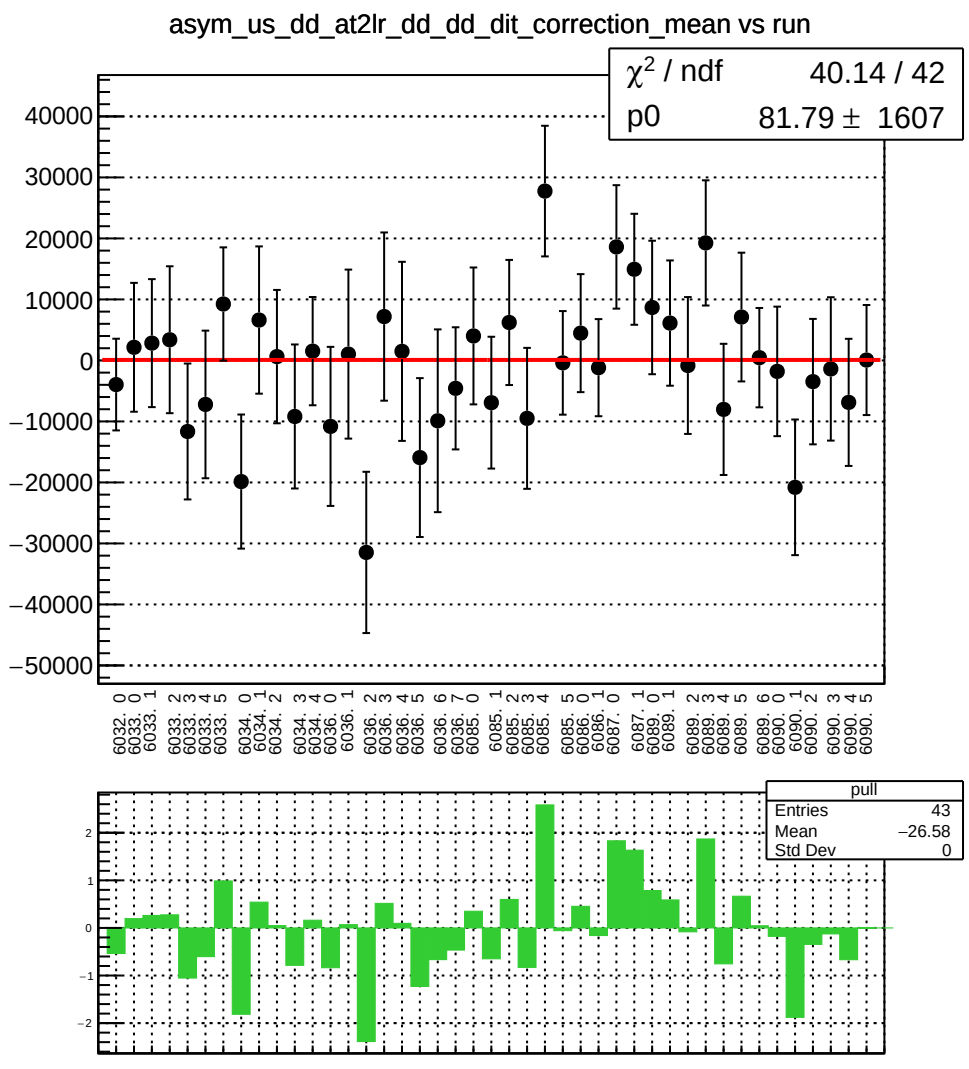

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.53 / 42
p0 107.3 ± 1633
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −25.77
Std Dev 0
2
1
0
−1
−2

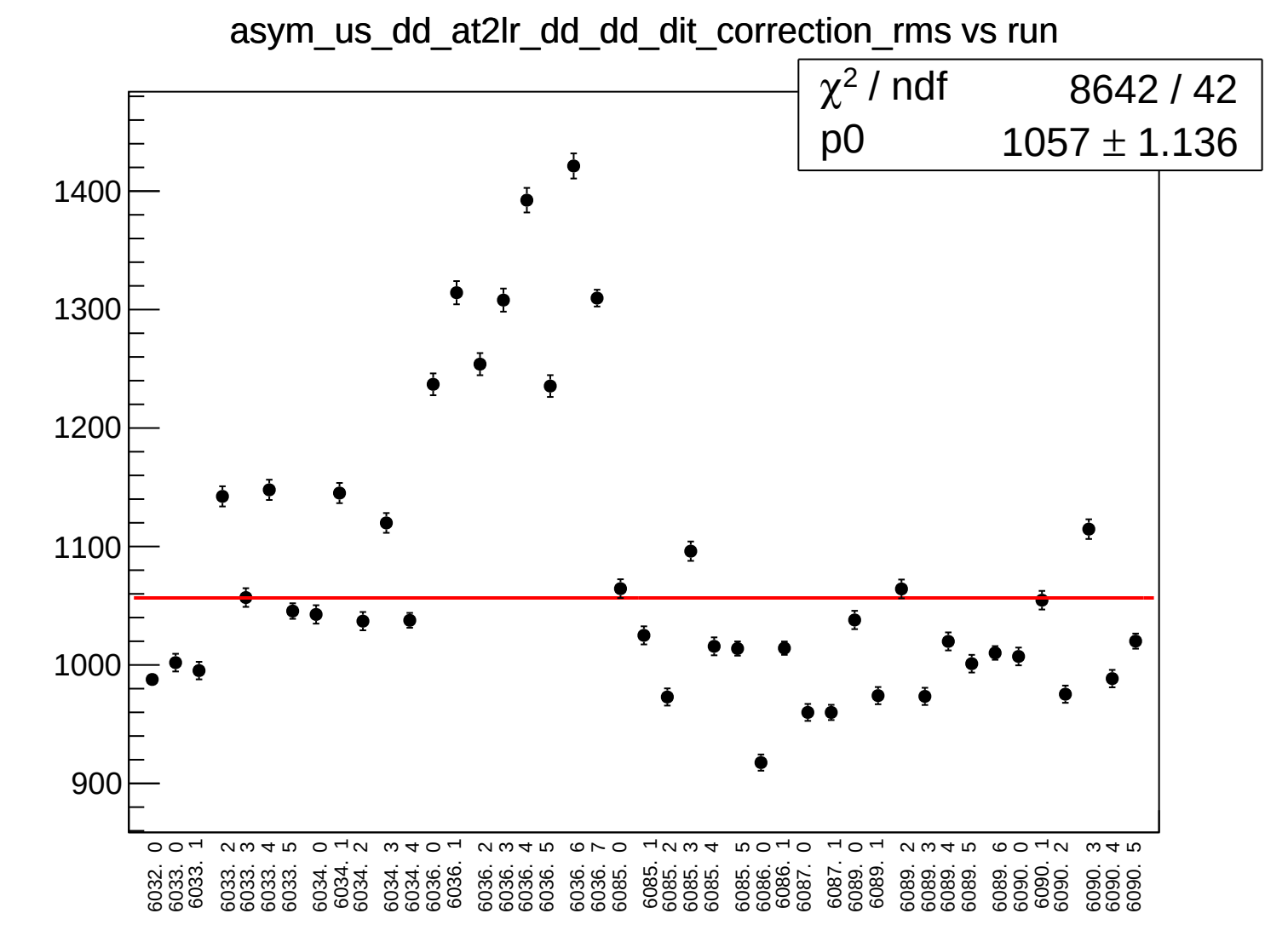

pull1D
Entries 43
Mean −0.03347
Std Dev 0.9702
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

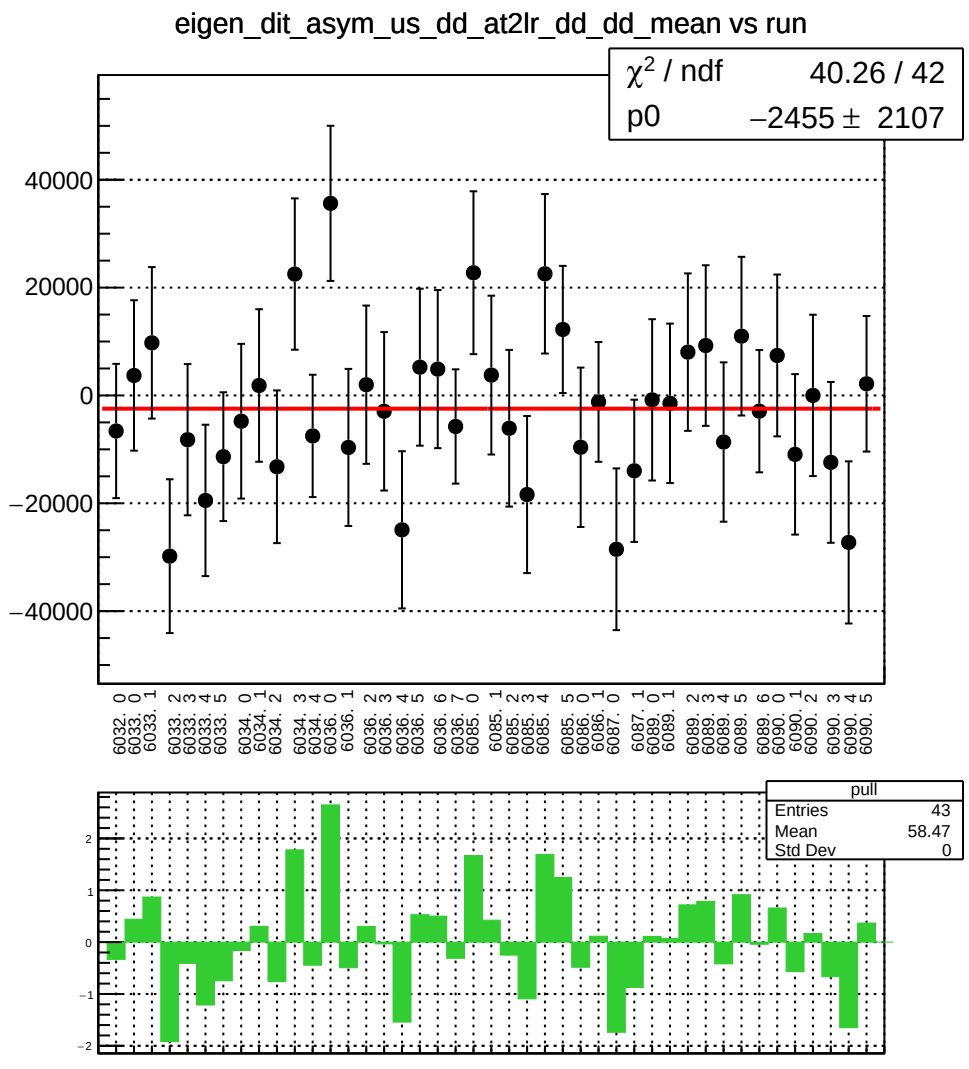

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7462 / 42
p0 1075 ± 1.155
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

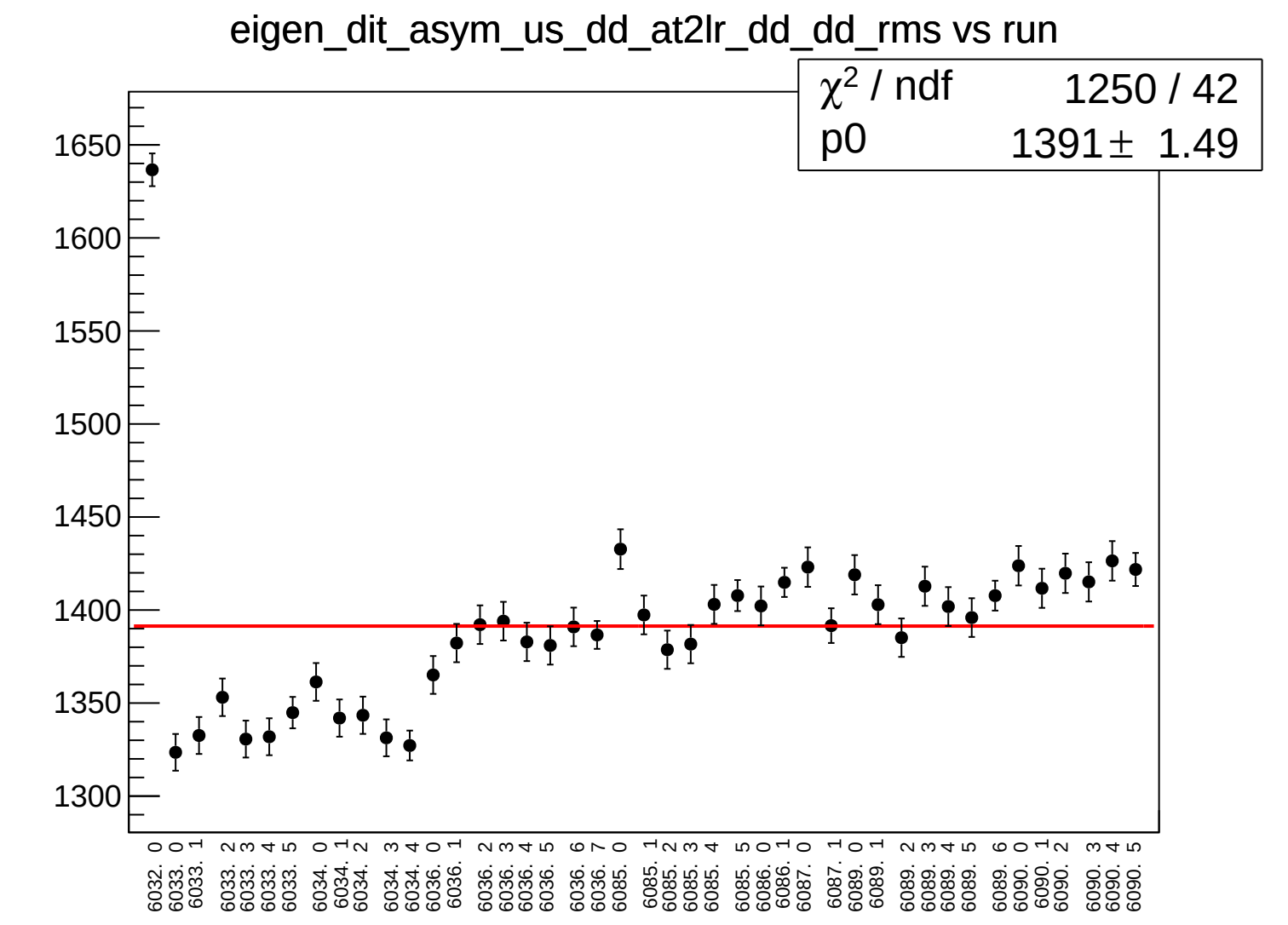

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 40.26 / 42
p0 −2455 ± 2107
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 58.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003514
Std Dev 0.9676
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_dd_rms vs run
χ² / ndf 1250 / 42
p0 1391 ± 1.49
1650
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

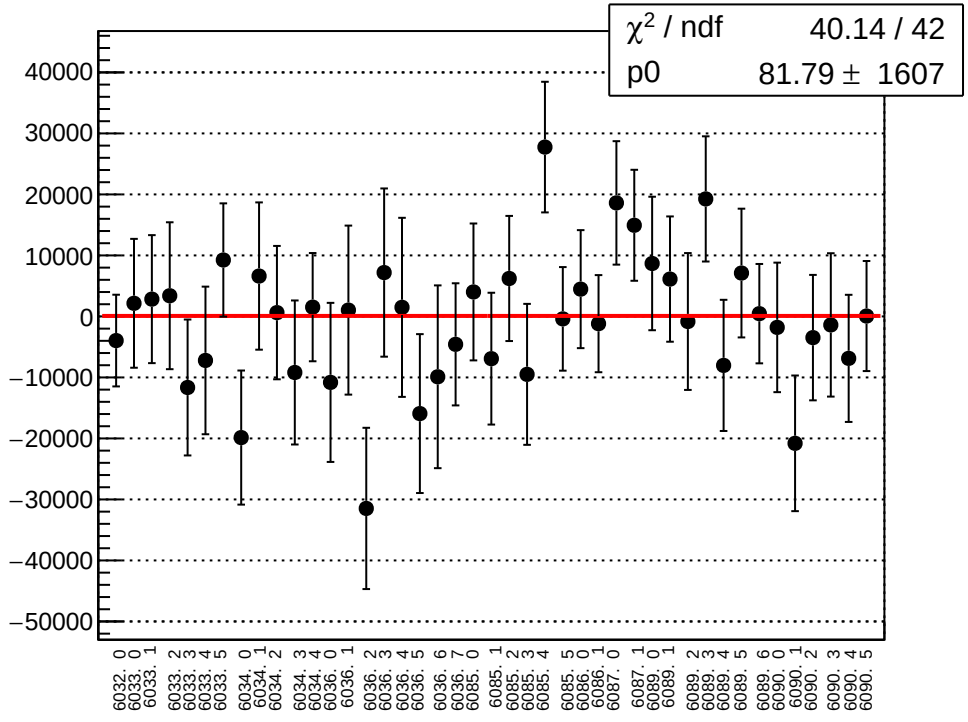

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 40.14 / 42
p0 81.79 ± 1607
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.58
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03586
Std Dev 0.9656
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

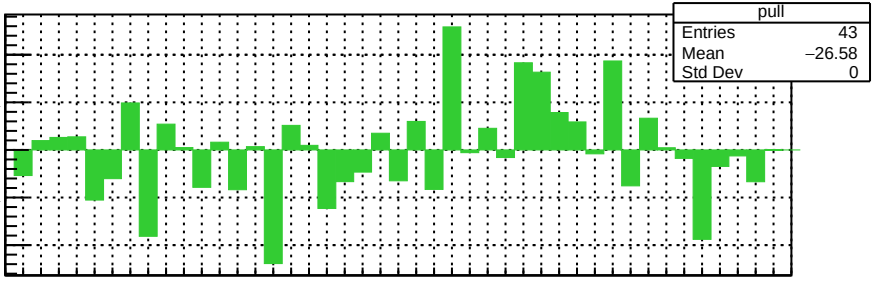

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 8642 / 42
p0 1057 ± 1.136
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

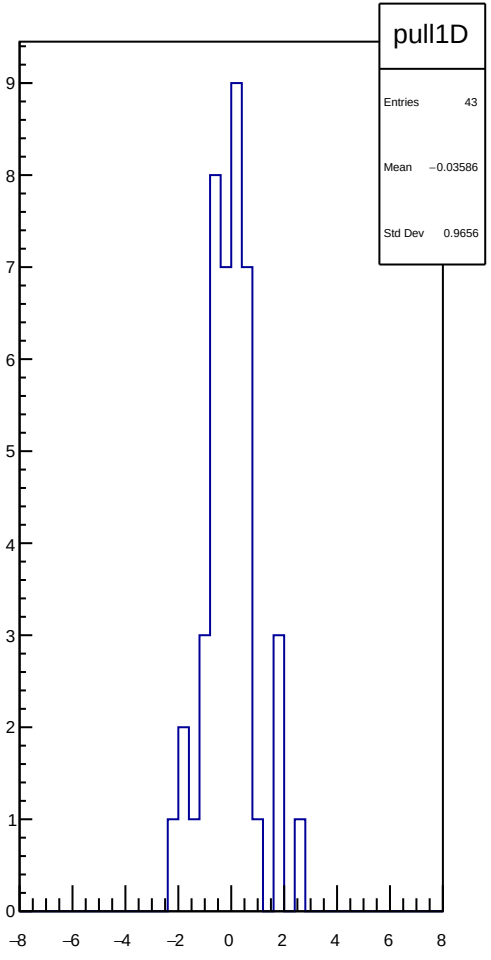

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 40.26 / 42
p0 −2455 ± 2107
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 58.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003514
Std Dev 0.9676
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

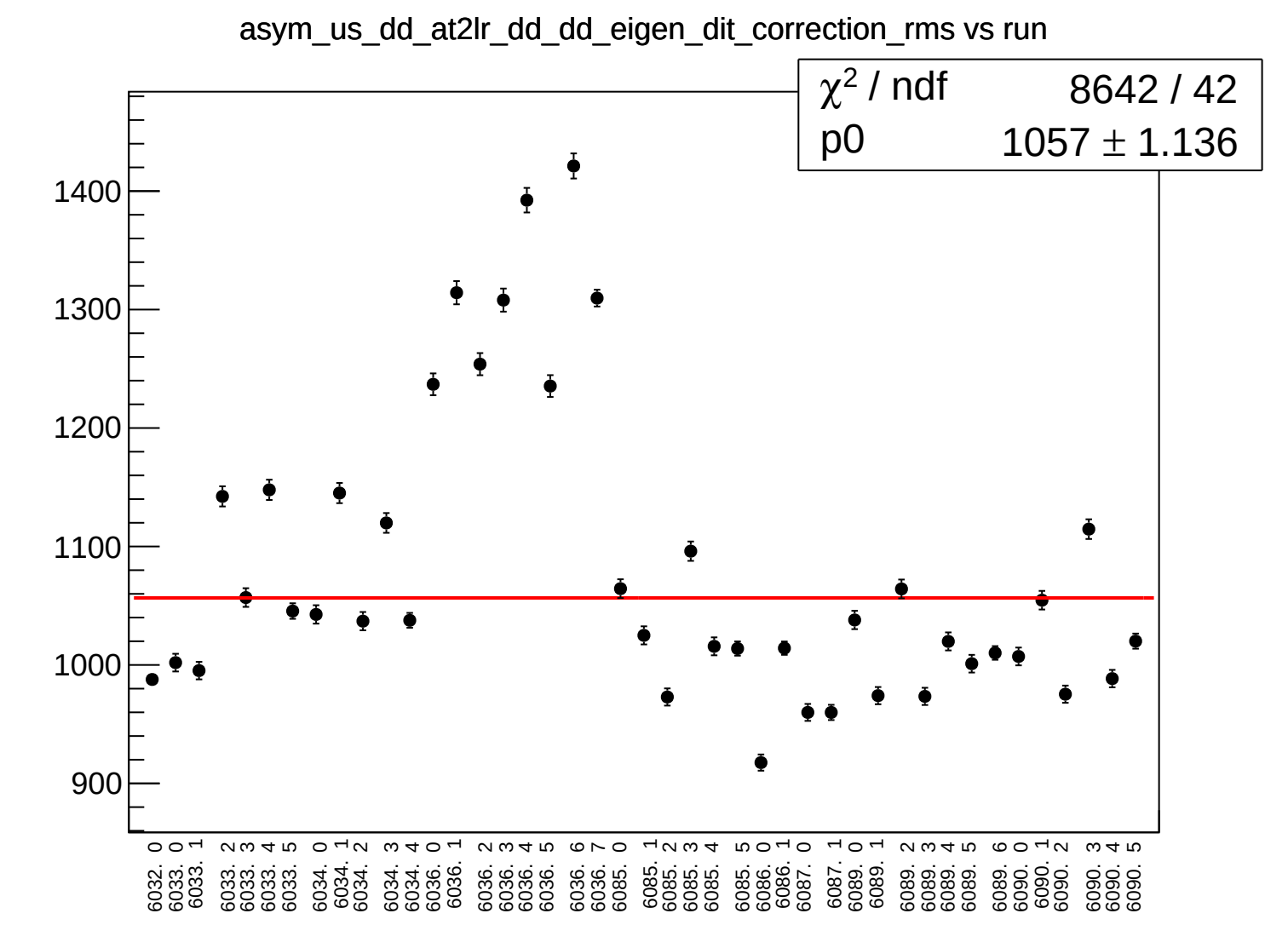

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1250 / 42
p0 1391 ± 1.49
1650
1600
1550
1500
1450
1400
1350
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

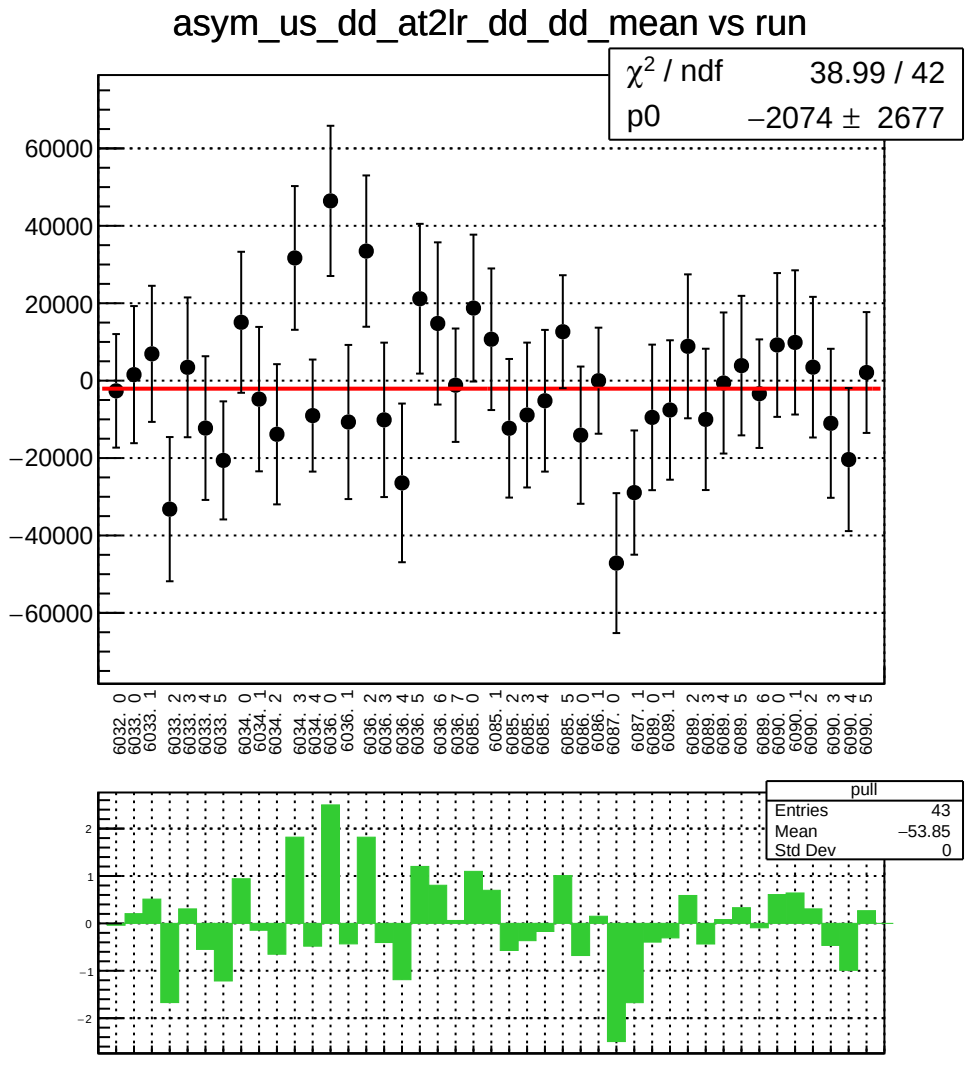
asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run

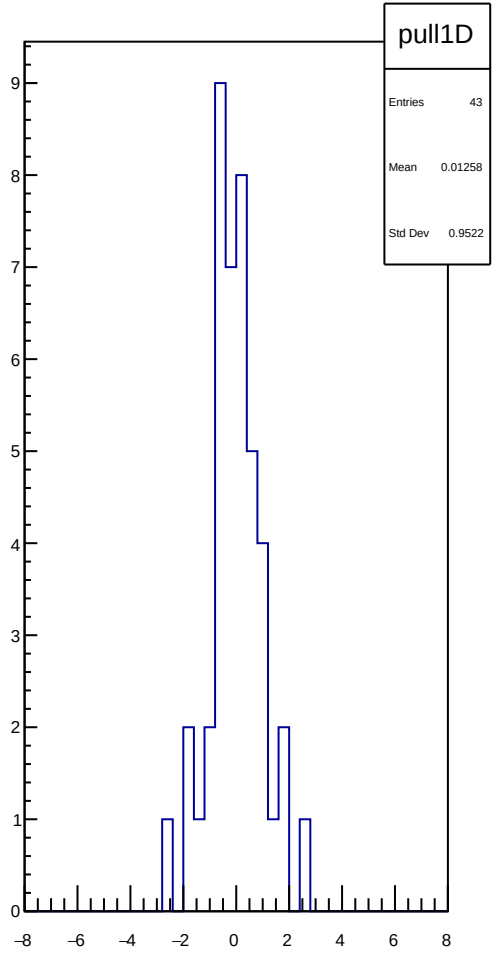


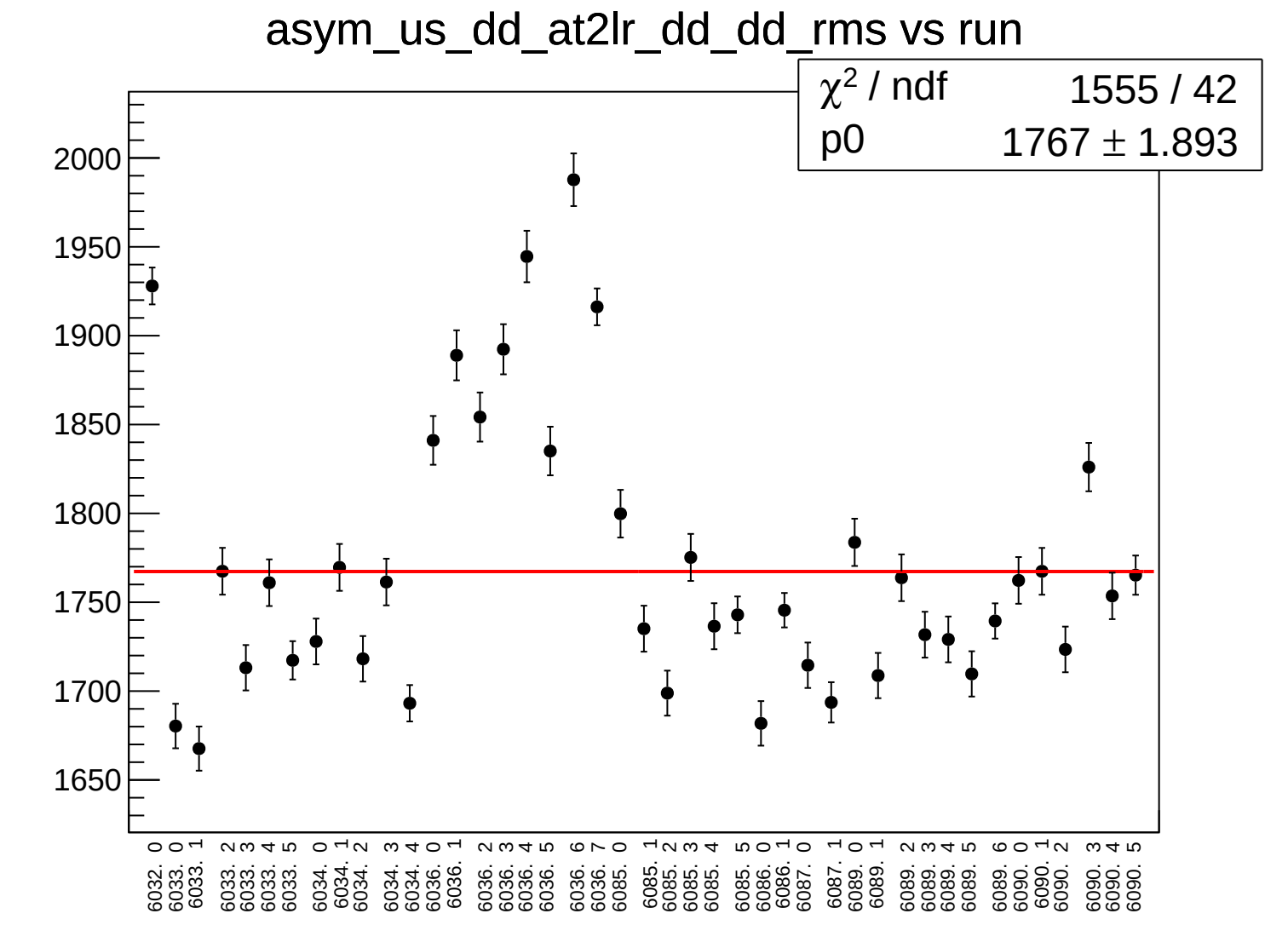


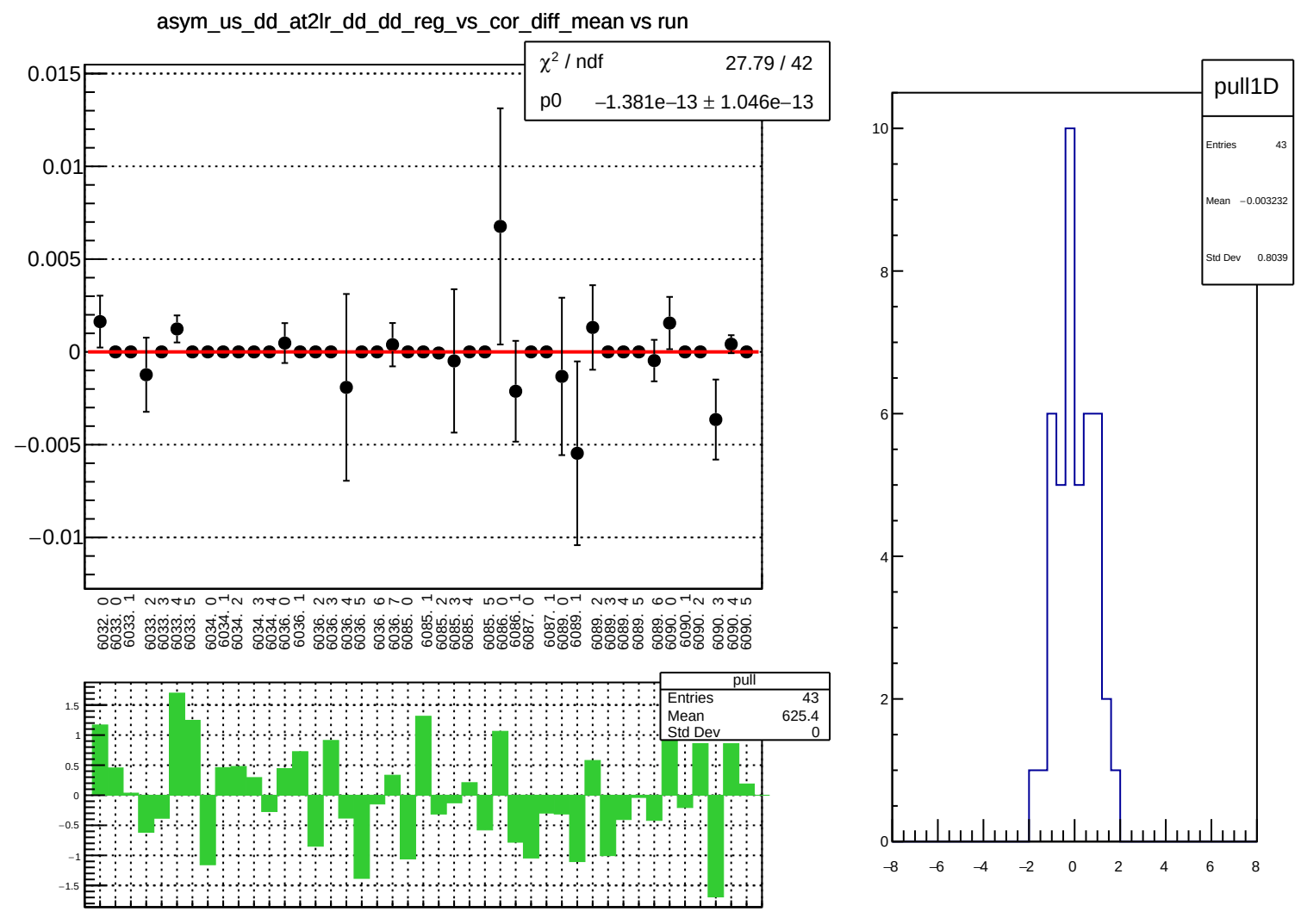


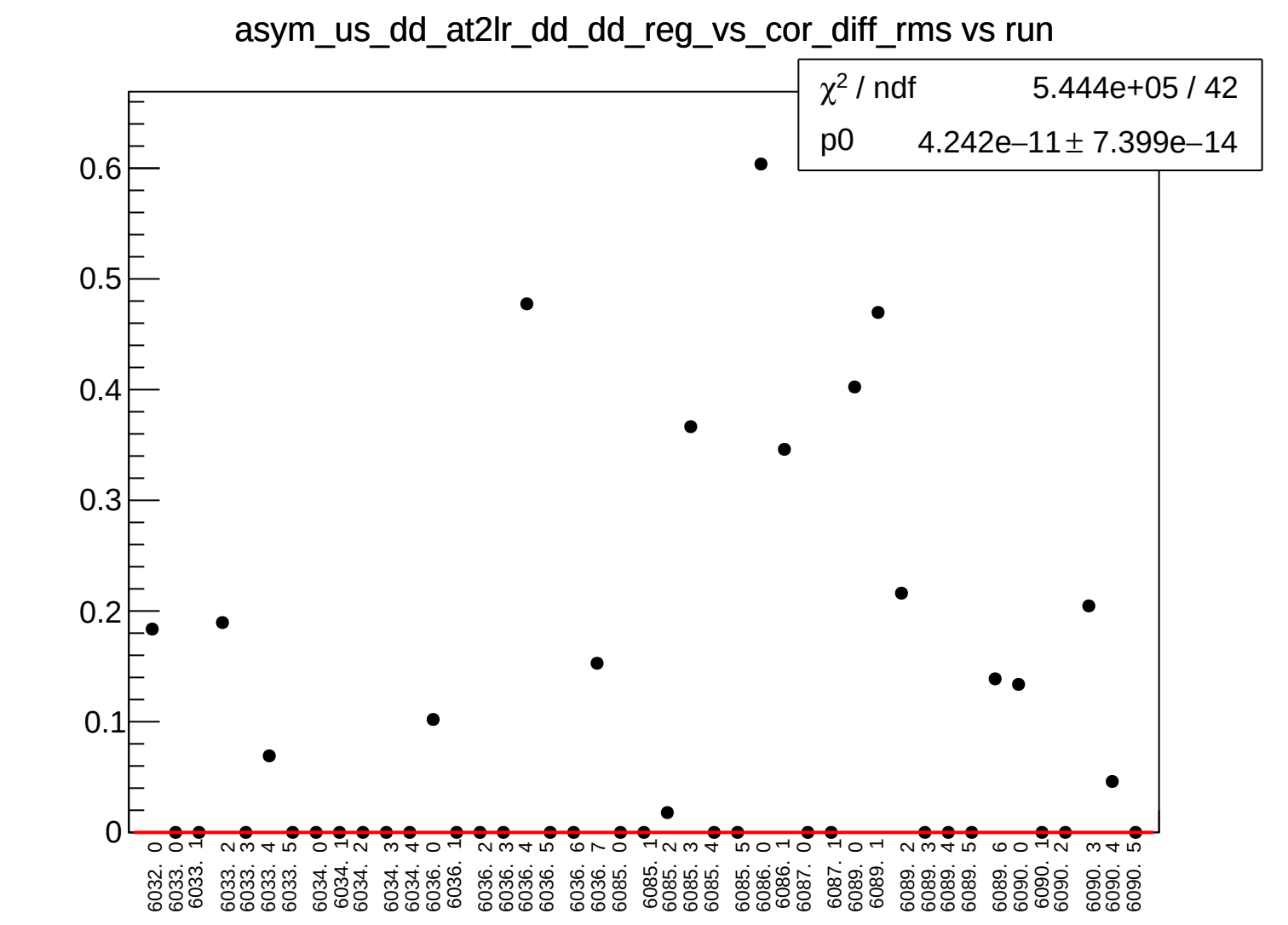

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8642 / 42
p0 1057 ± 1.136
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

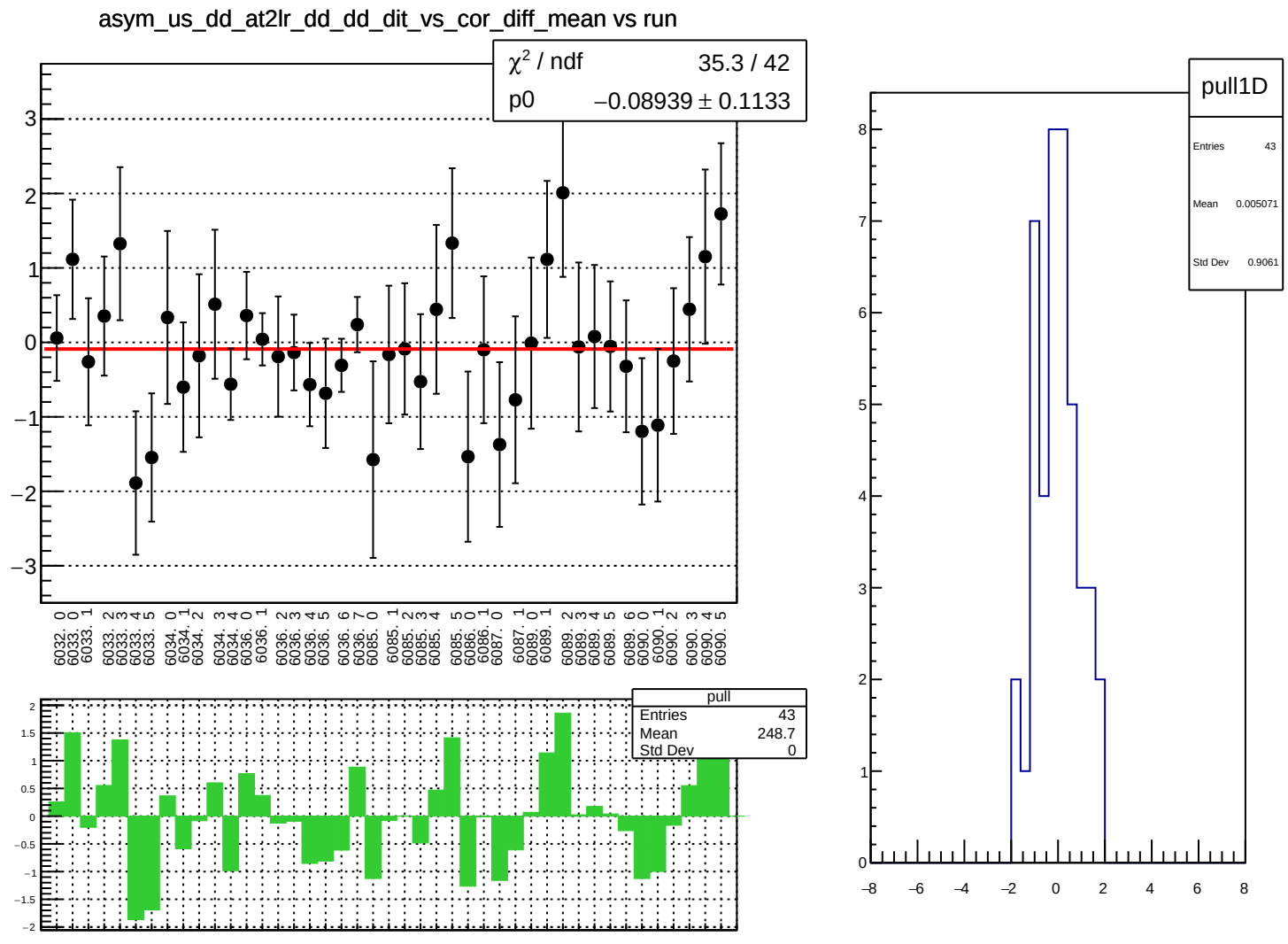

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 38.99 / 42
p0 −2074 ± 2677
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −53.85
Std Dev 0
2
1
0
−1
−2

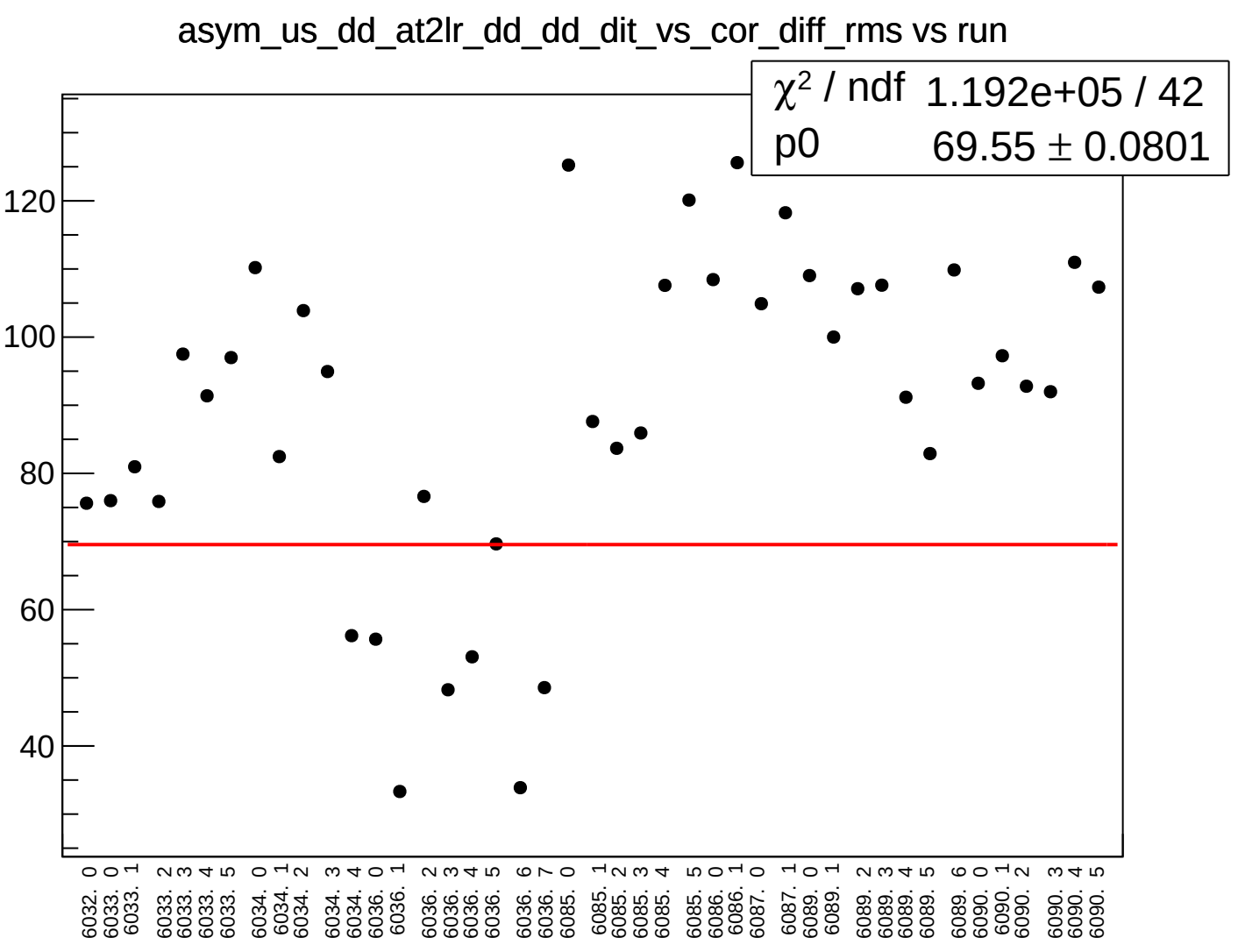

pull1D
Entries 43
Mean 0.01258
Std Dev 0.9522
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

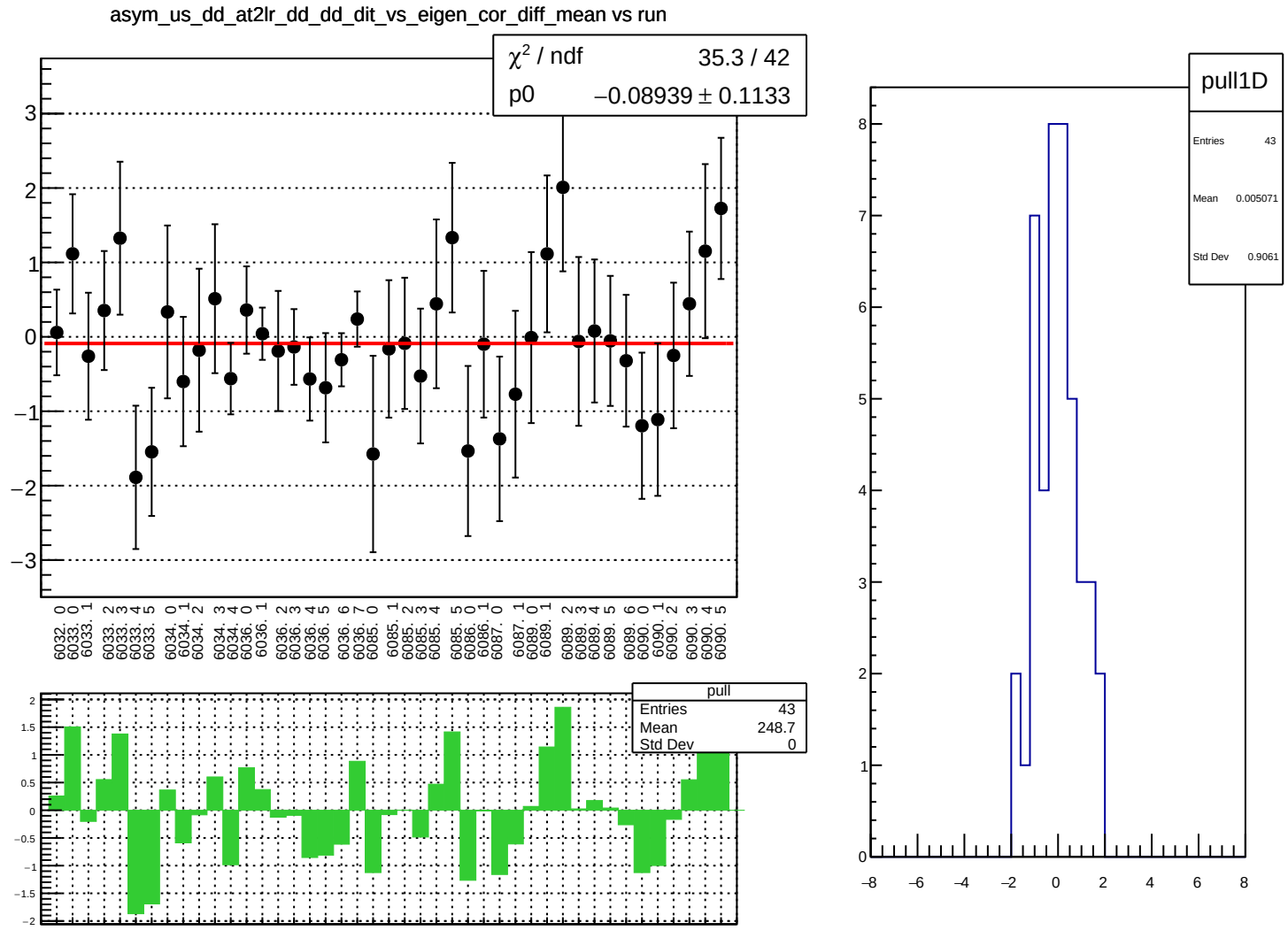

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1555 / 42
p0 1767 ± 1.893
2000
1950
1900
1850
1800
1750
1700
1650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

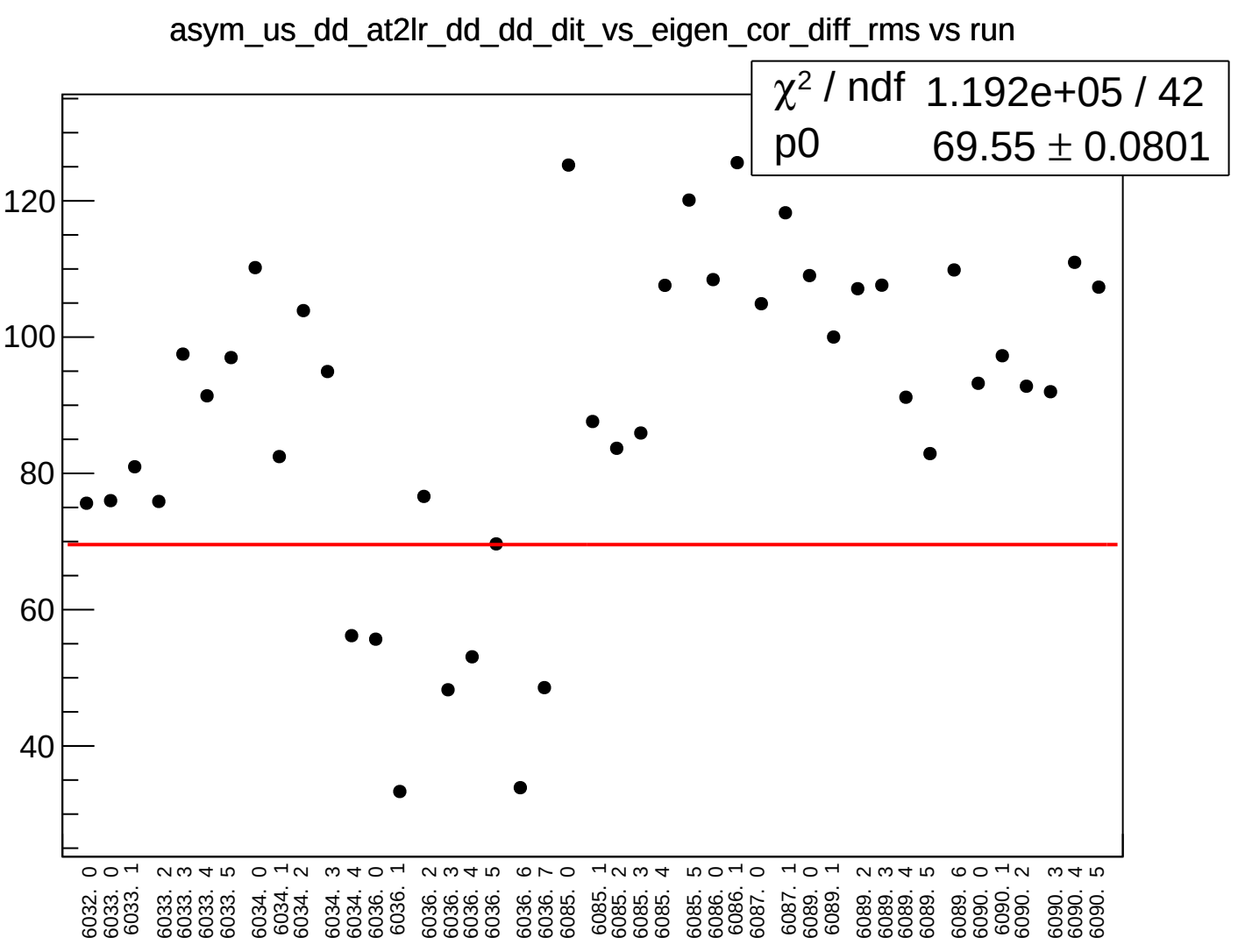

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.79 / 42
p0 −1.381e−13 ± 1.046e−13
0.015
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 625.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.003232
Std Dev 0.8039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

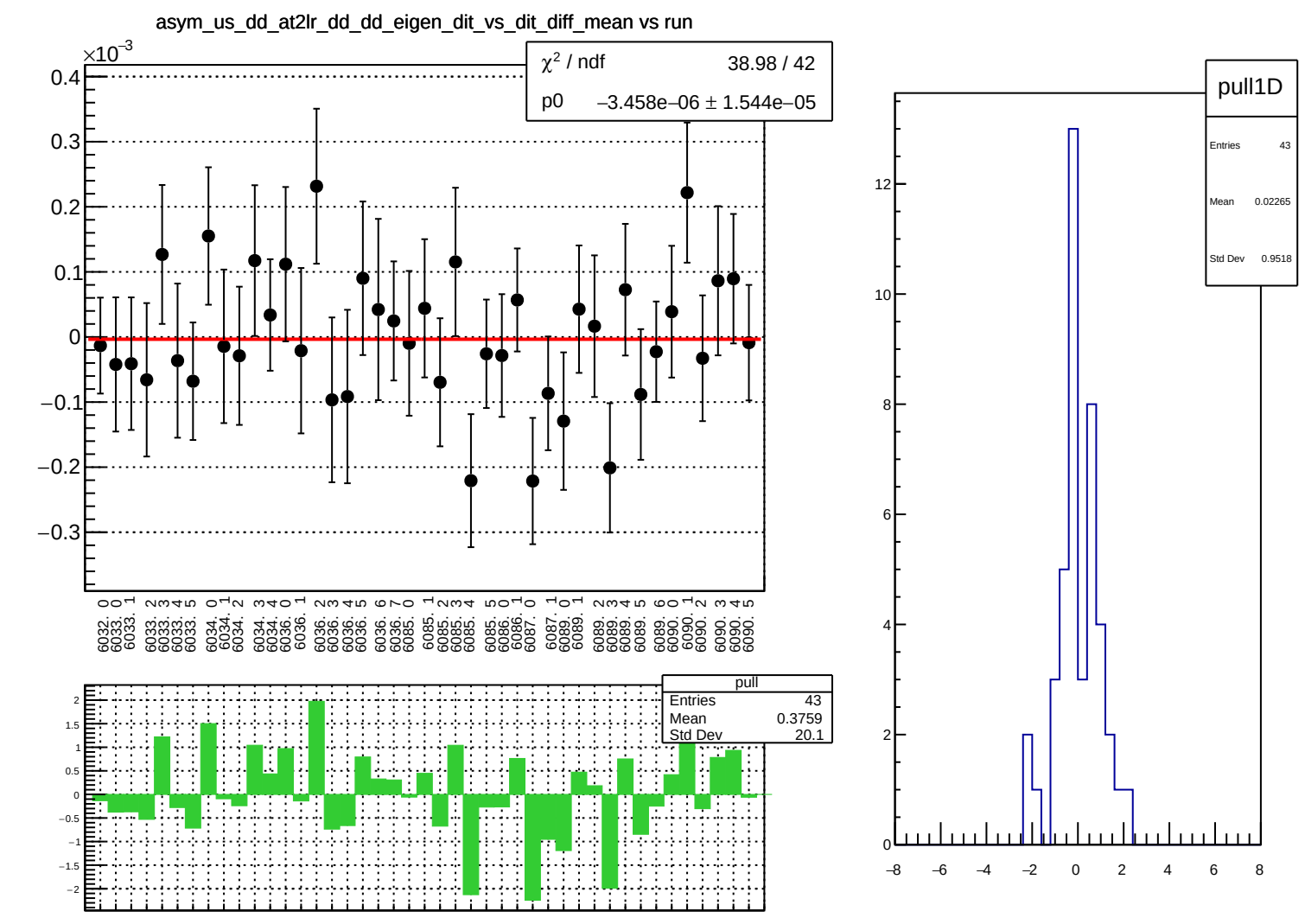

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.444e+05 / 42
p0 4.242e−11 ± 7.399e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

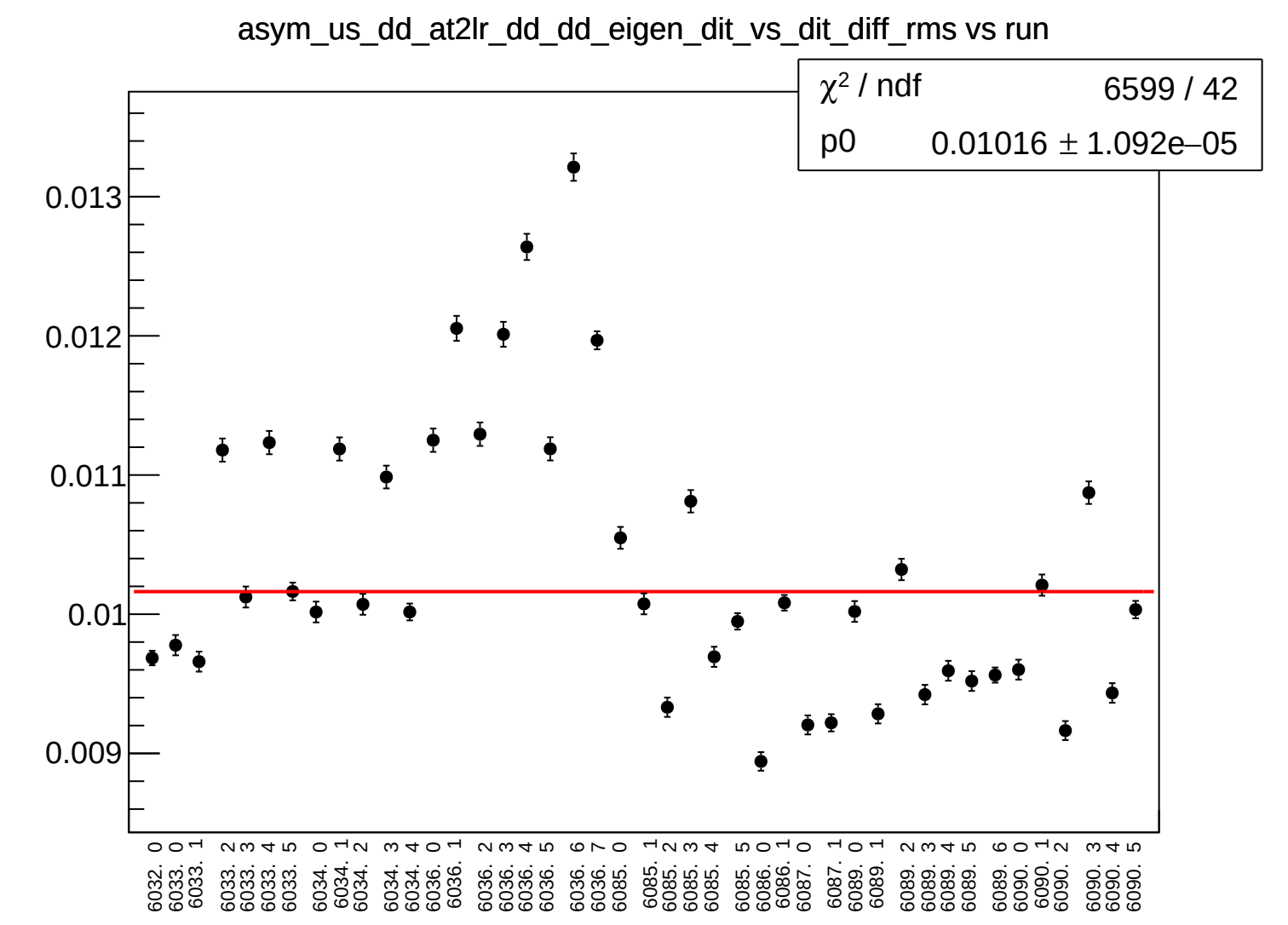

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.3 / 42
p0 −0.08939 ± 0.1133
pull
Entries 43
Mean 248.7
Std Dev 0
pull1D
Entries 43
Mean 0.005071
Std Dev 0.9061

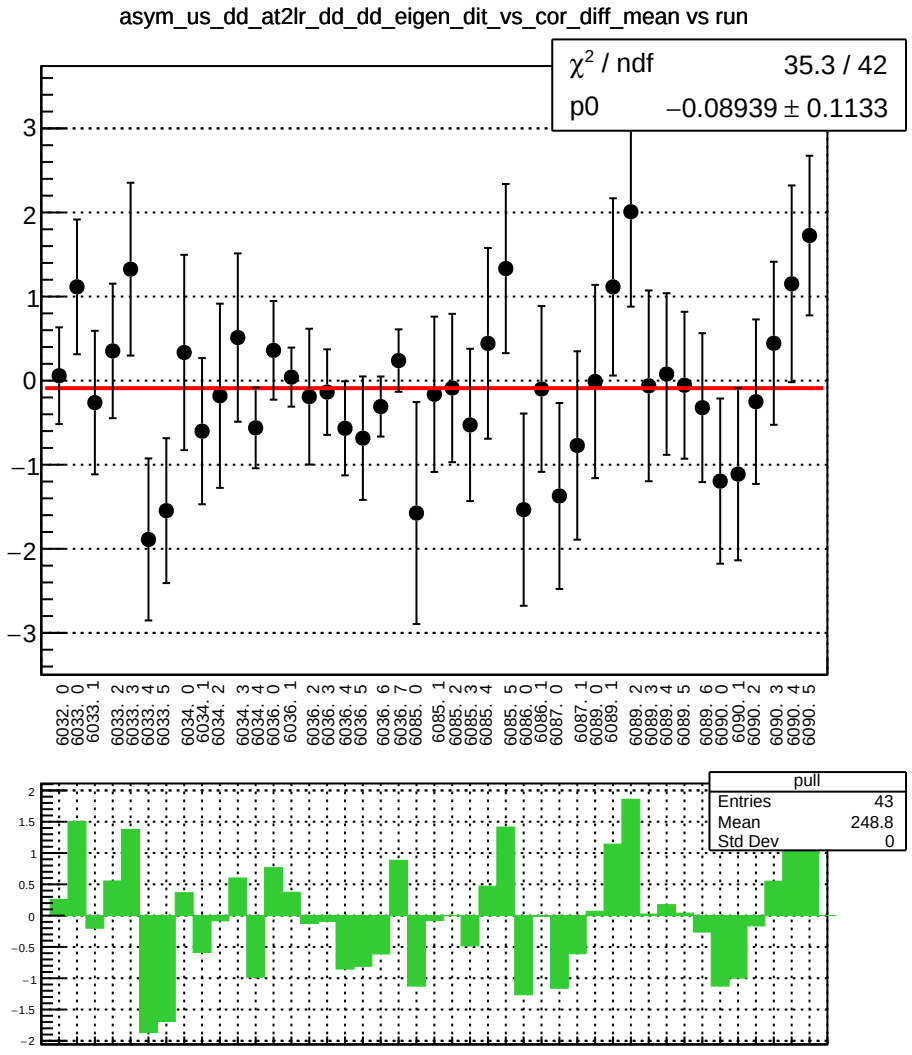

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 42
p0 69.55 ± 0.0801
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

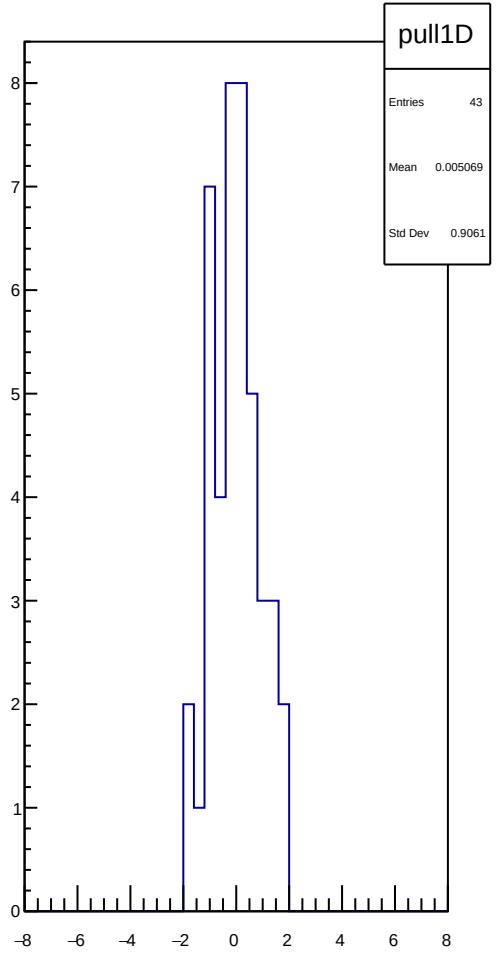

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.3 / 42
p0 −0.08939 ± 0.1133
pull
Entries 43
Mean 248.7
Std Dev 0
pull1D
Entries 43
Mean 0.005071
Std Dev 0.9061

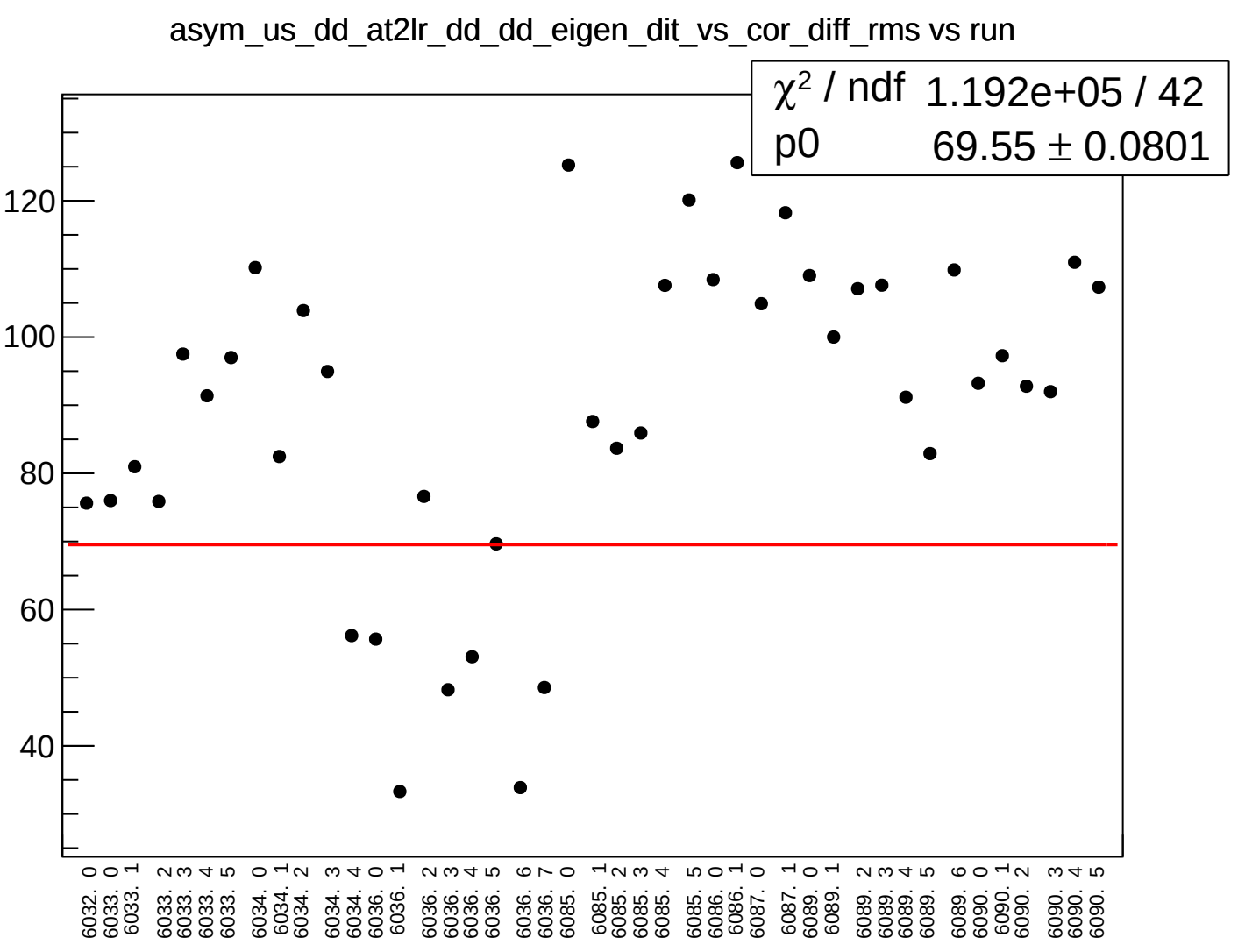

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 42
p0 69.55 ± 0.0801
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

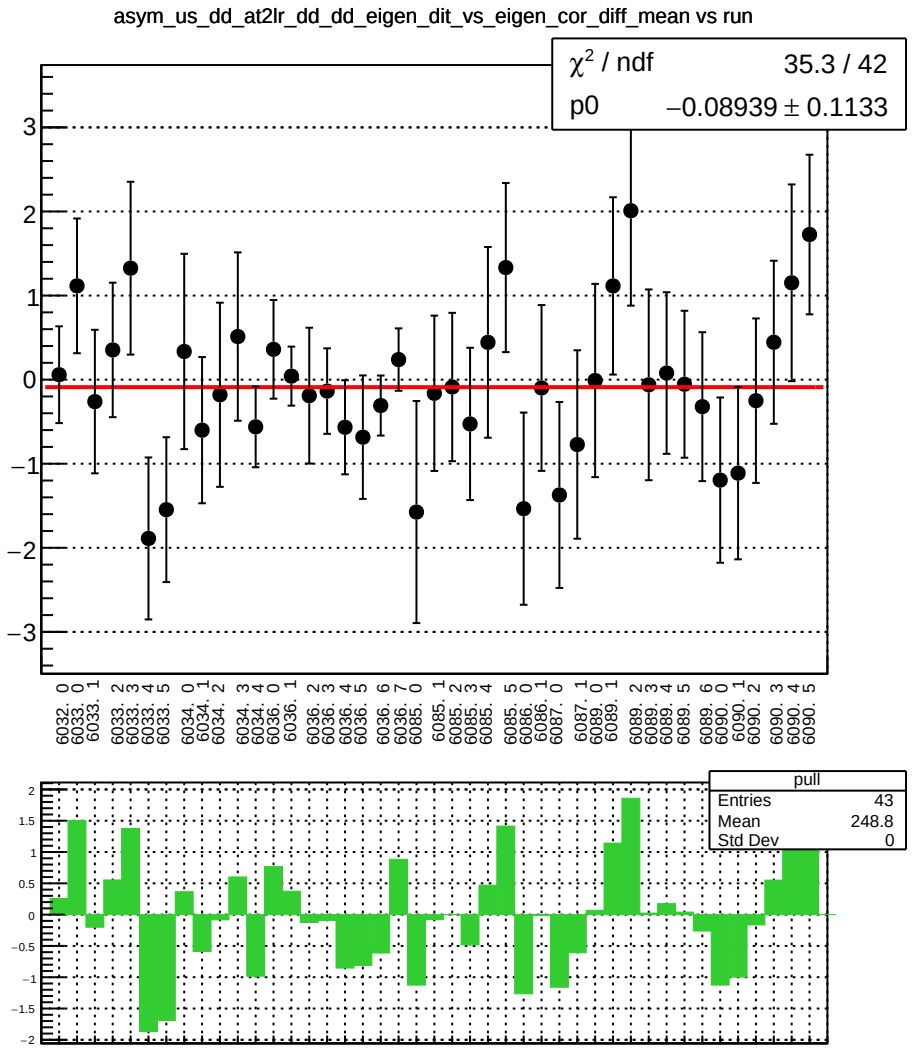

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.98 / 42
p0 −3.458e−06 ± 1.544e−05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.3759
Std Dev 20.1
pull1D
Entries 43
Mean 0.02265
Std Dev 0.9518

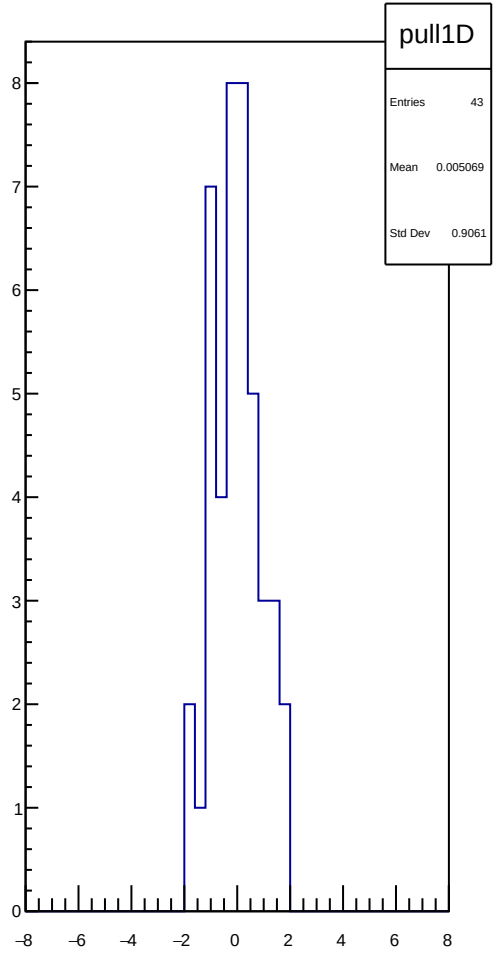

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6599 / 42
p0 0.01016 ± 1.092e−05
0.013
0.012
0.011
0.01
0.009
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

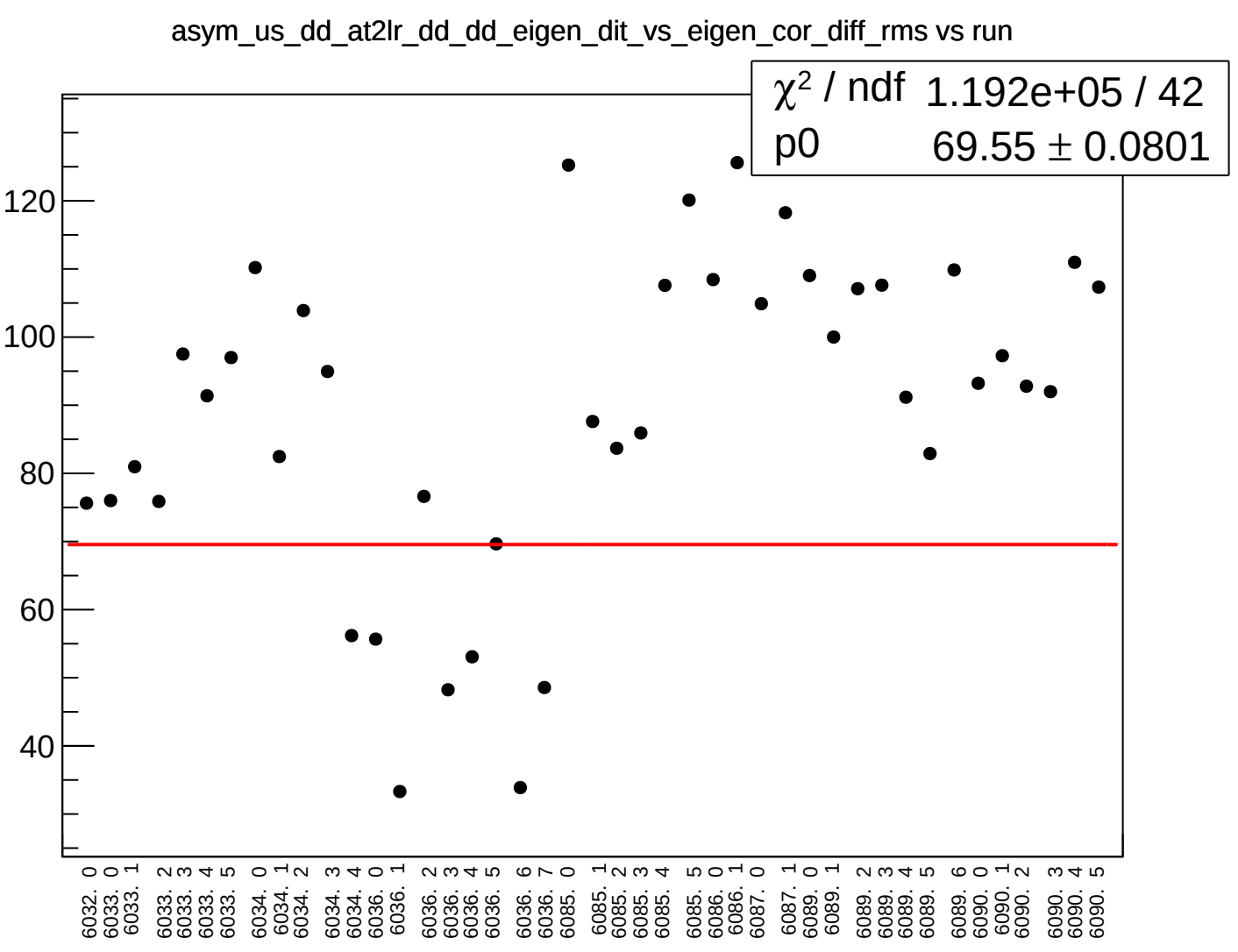

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.3 / 42
p0 −0.08939 ± 0.1133
pull
Entries 43
Mean 248.8
Std Dev 0

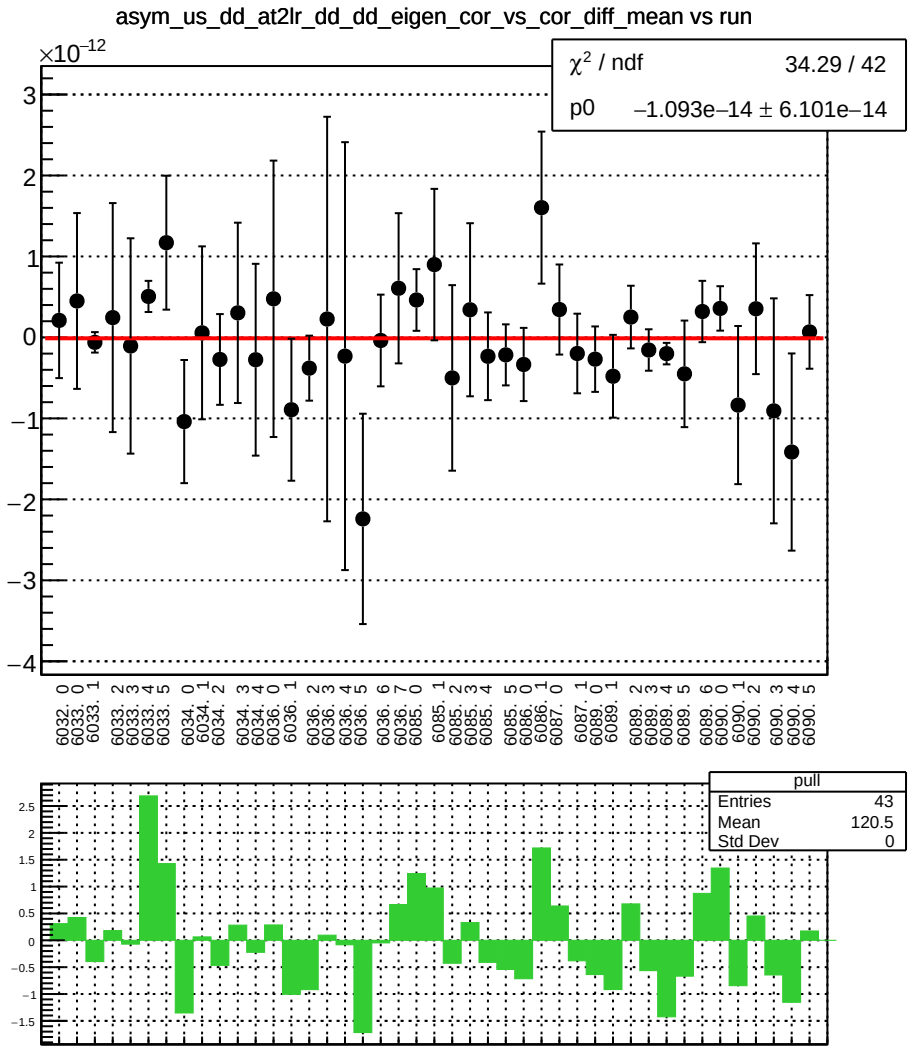

pull1D
Entries 43
Mean 0.005069
Std Dev 0.9061

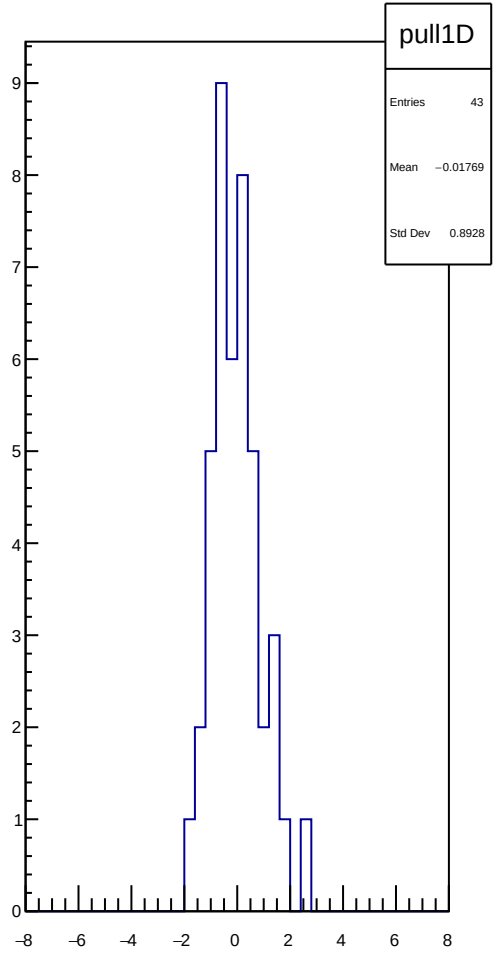

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 42
p0 69.55 ± 0.0801
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

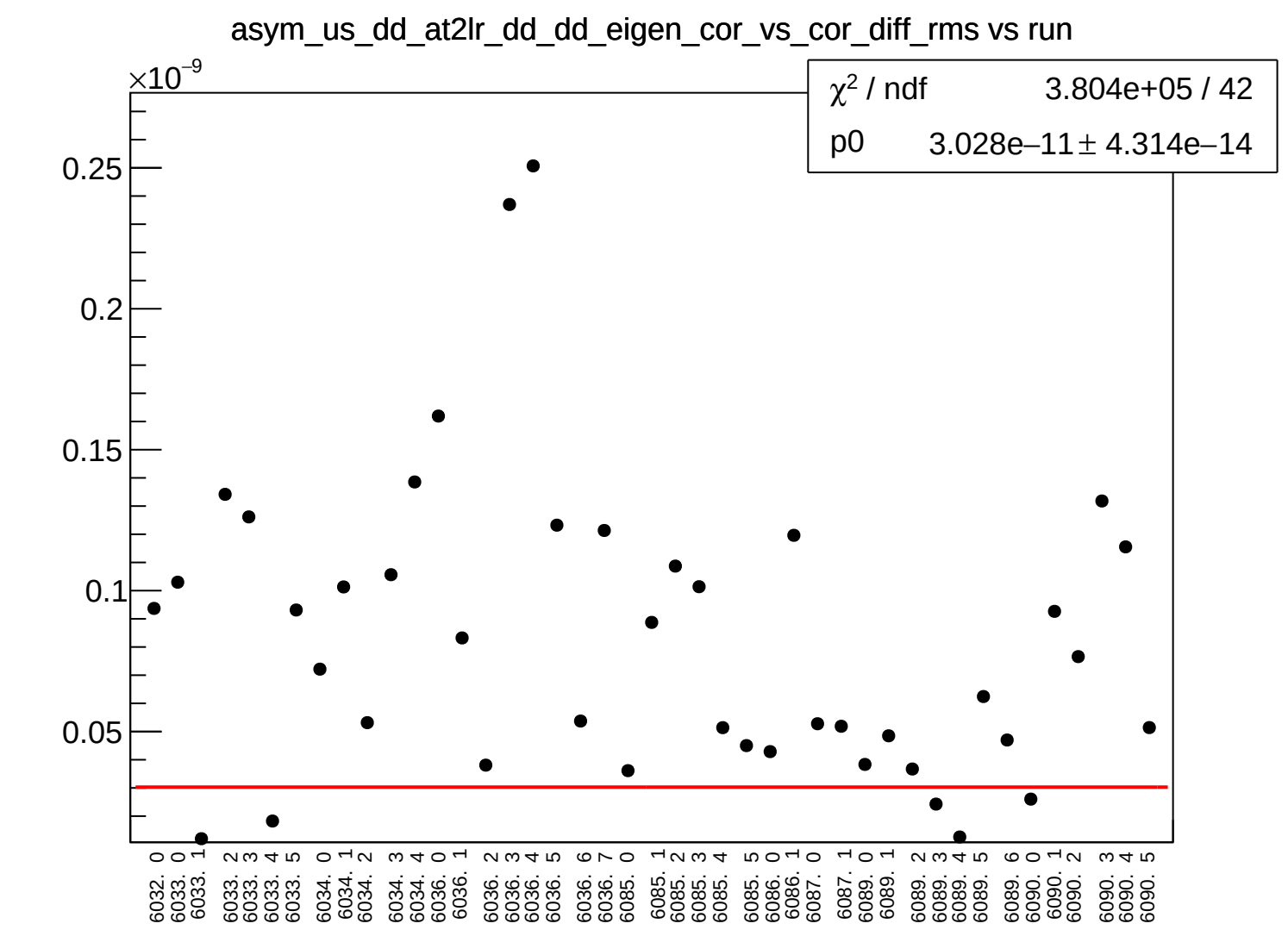

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.3 / 42
p0 −0.08939 ± 0.1133
pull
Entries 43
Mean 248.8
Std Dev 0

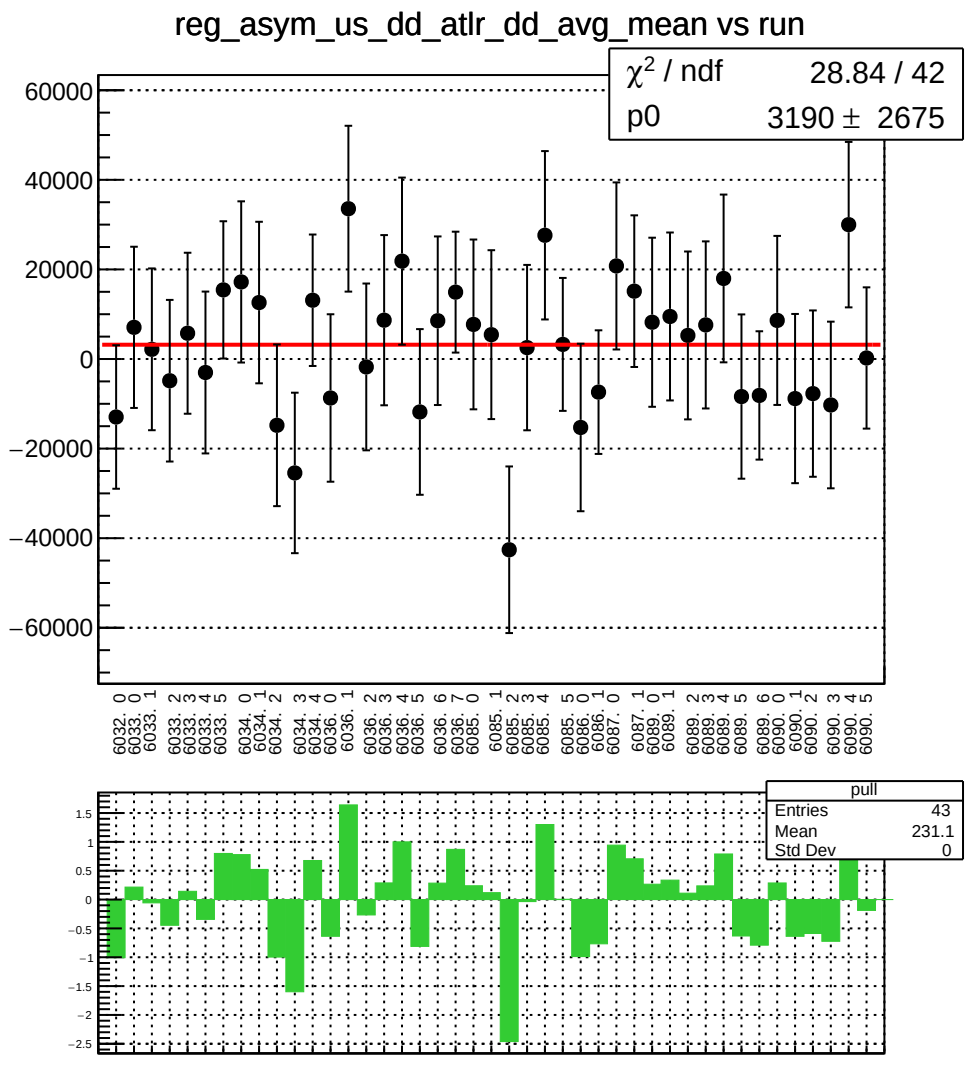

pull1D
Entries 43
Mean 0.005069
Std Dev 0.9061

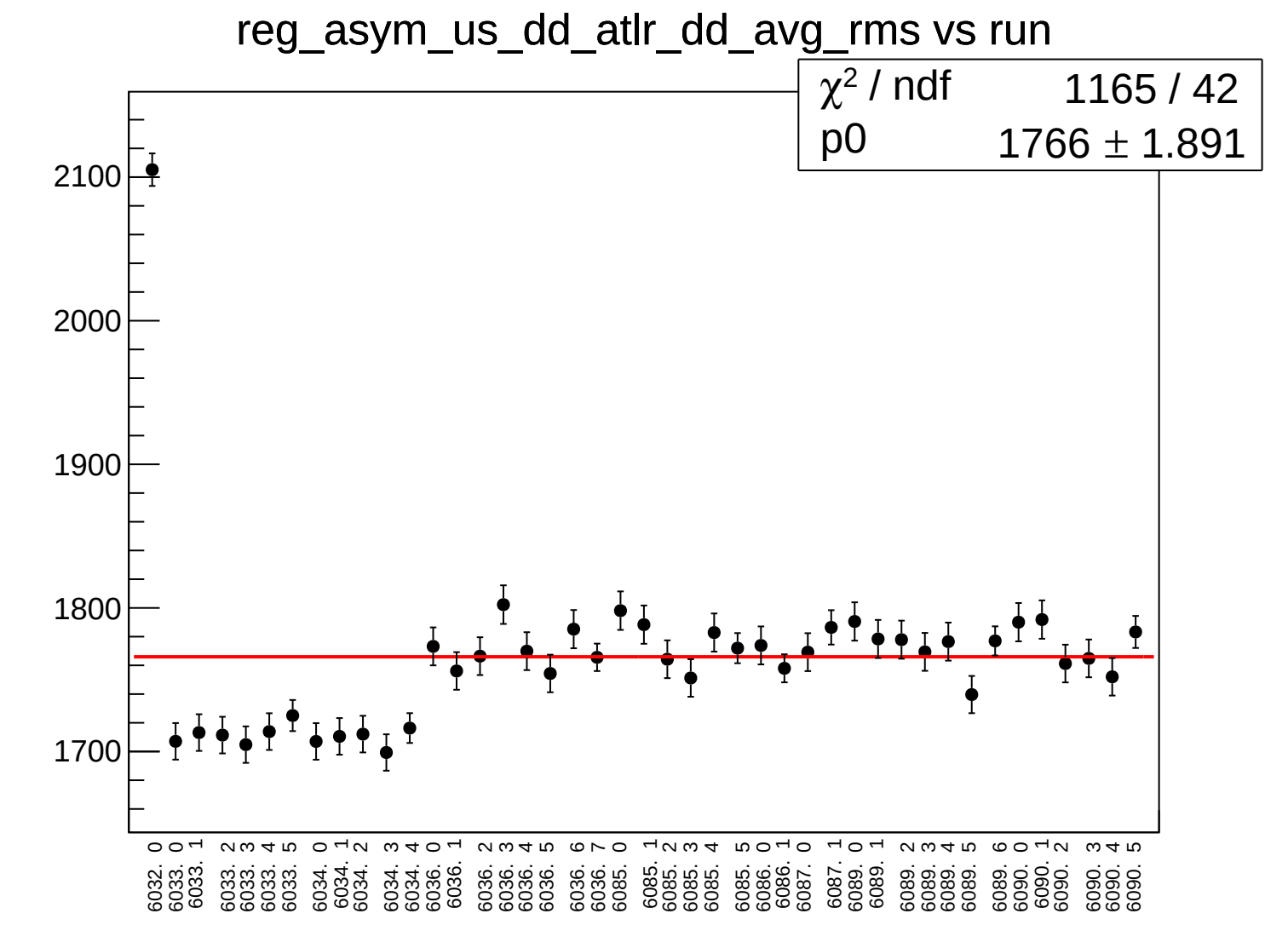

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 42
p0 69.55 ± 0.0801
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

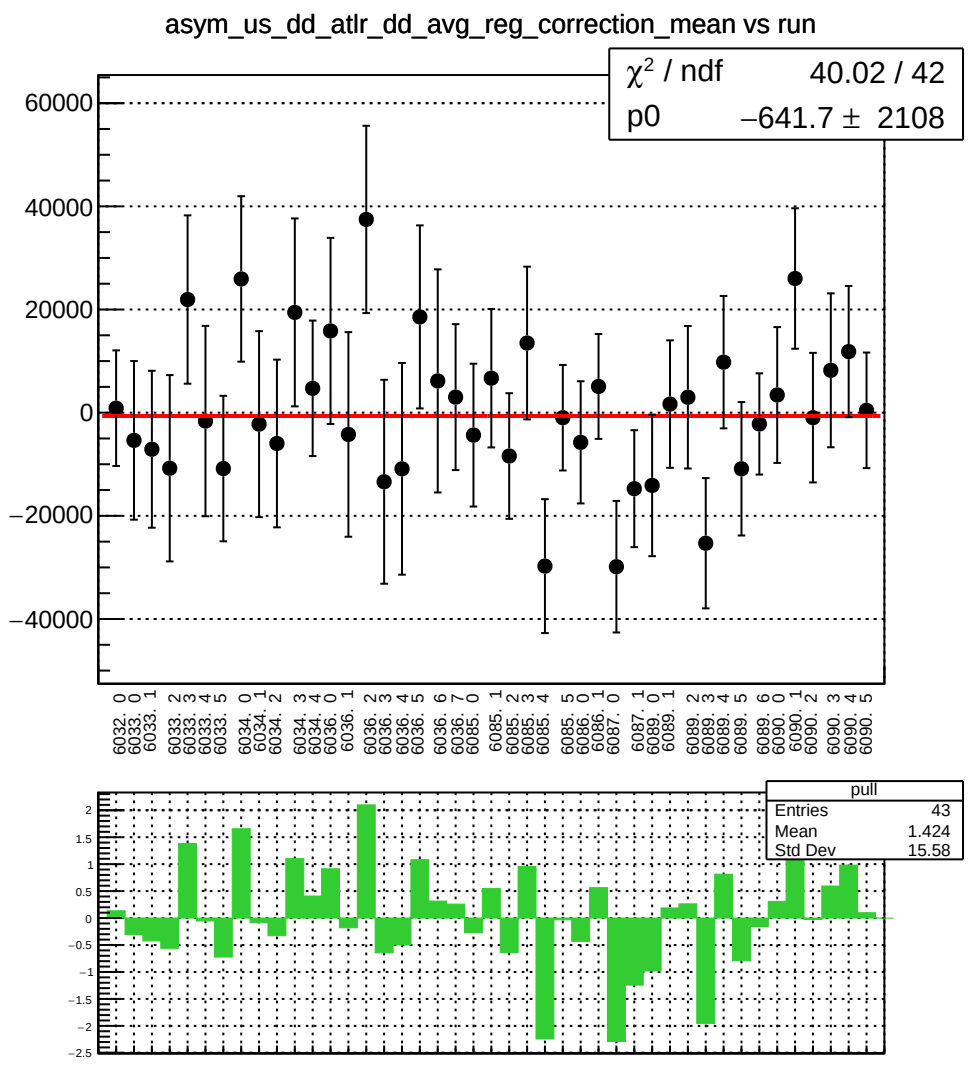

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.29 / 42
p0 −1.093e−14 ± 6.101e−14
pull
Entries 43
Mean 120.5
Std Dev 0

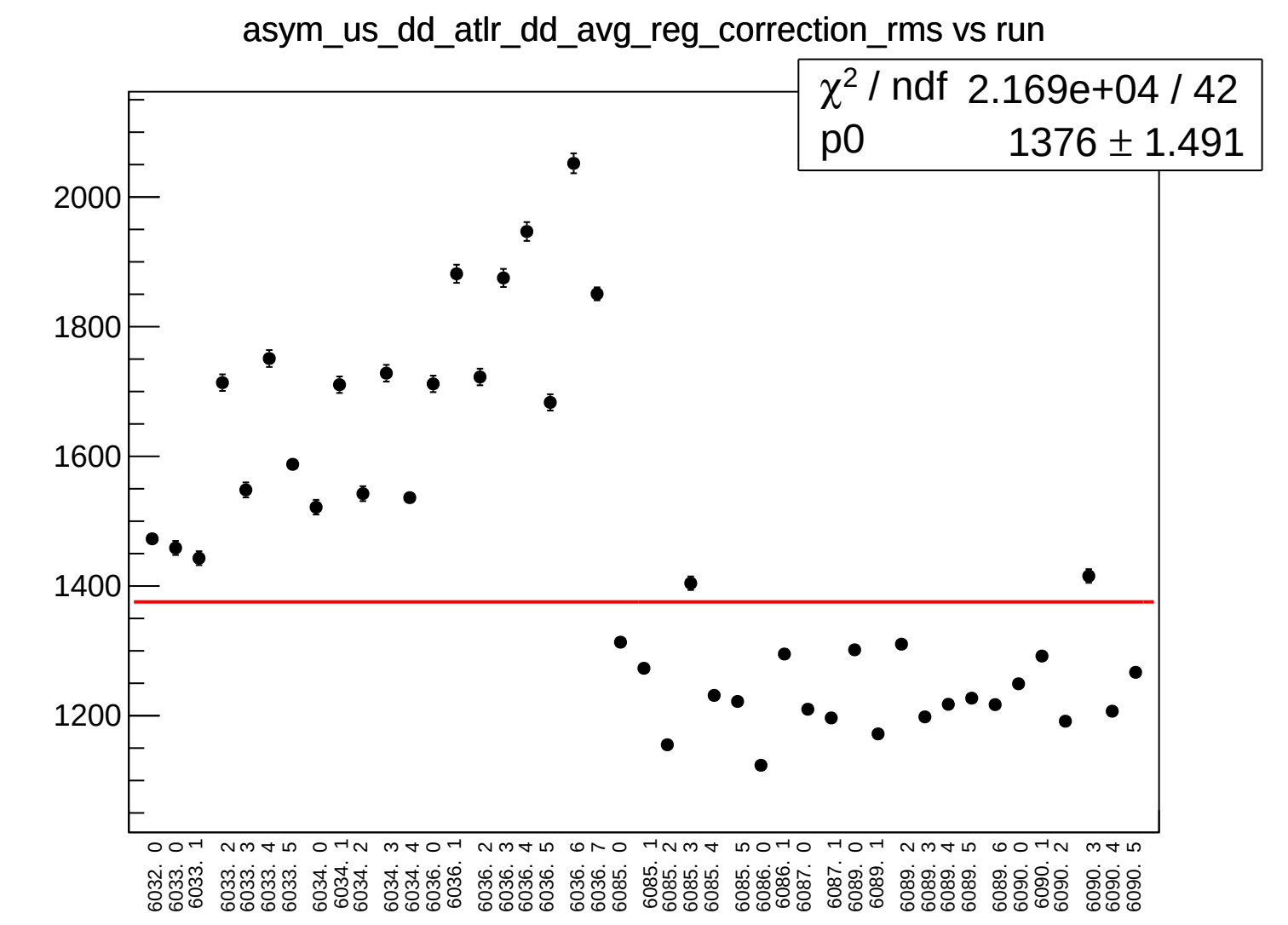

pull1D
Entries 43
Mean −0.01769
Std Dev 0.8928

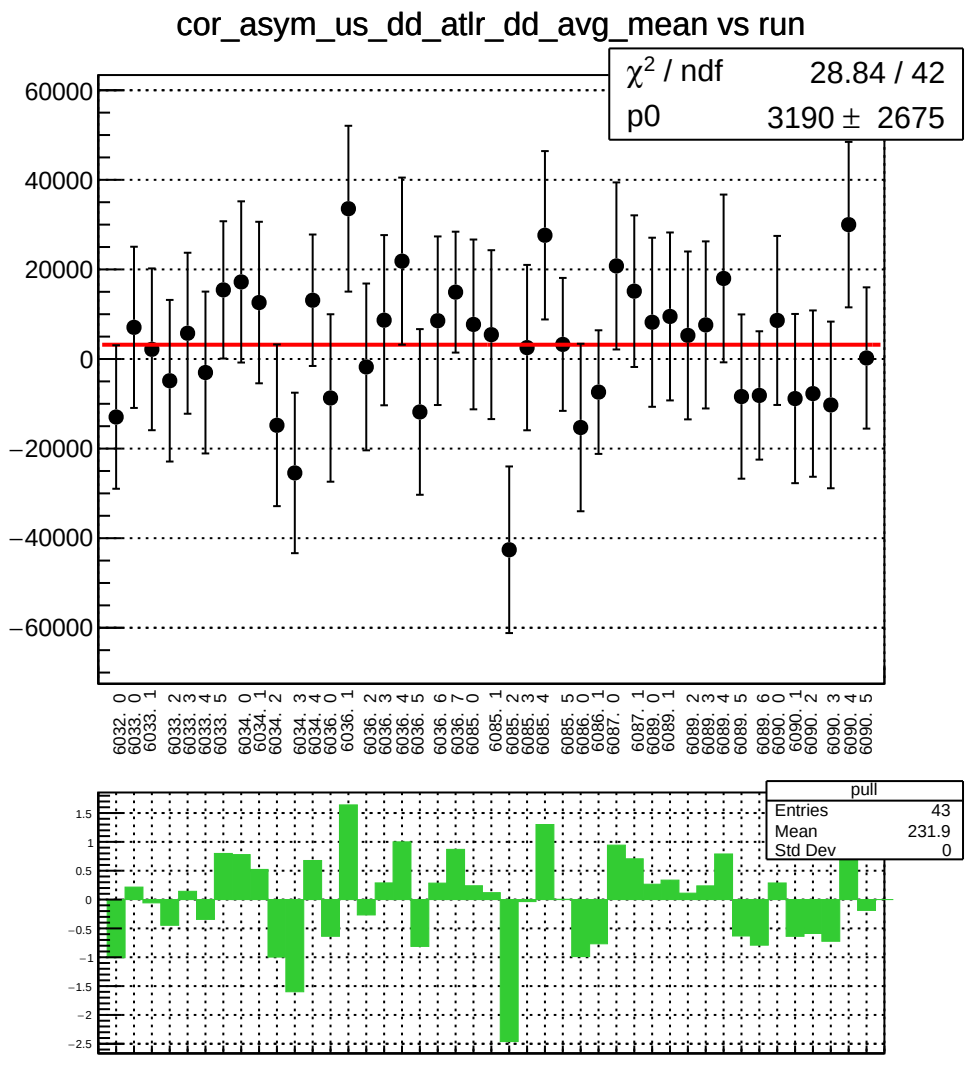

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.804e+05 / 42
p0 3.028e−11 ± 4.314e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

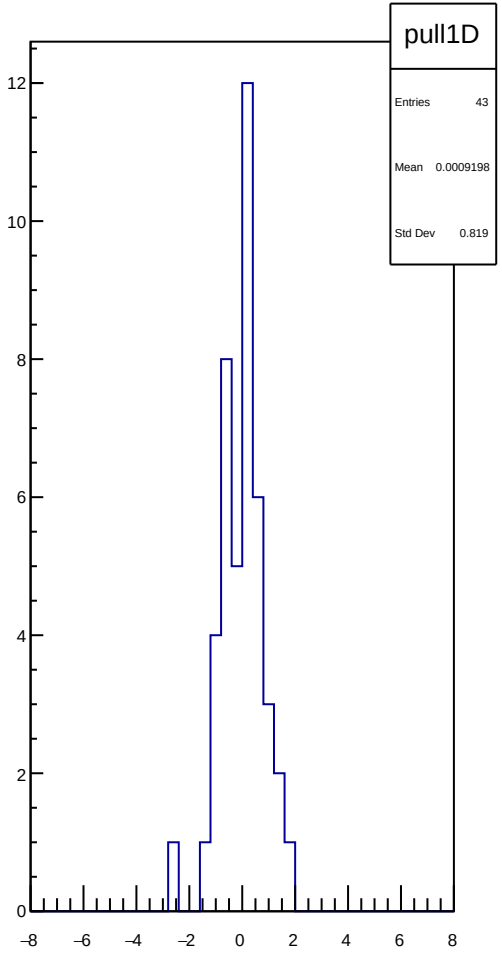

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 28.84 / 42
p0 3190 ± 2675
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 231.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.0009205
Std Dev 0.819
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

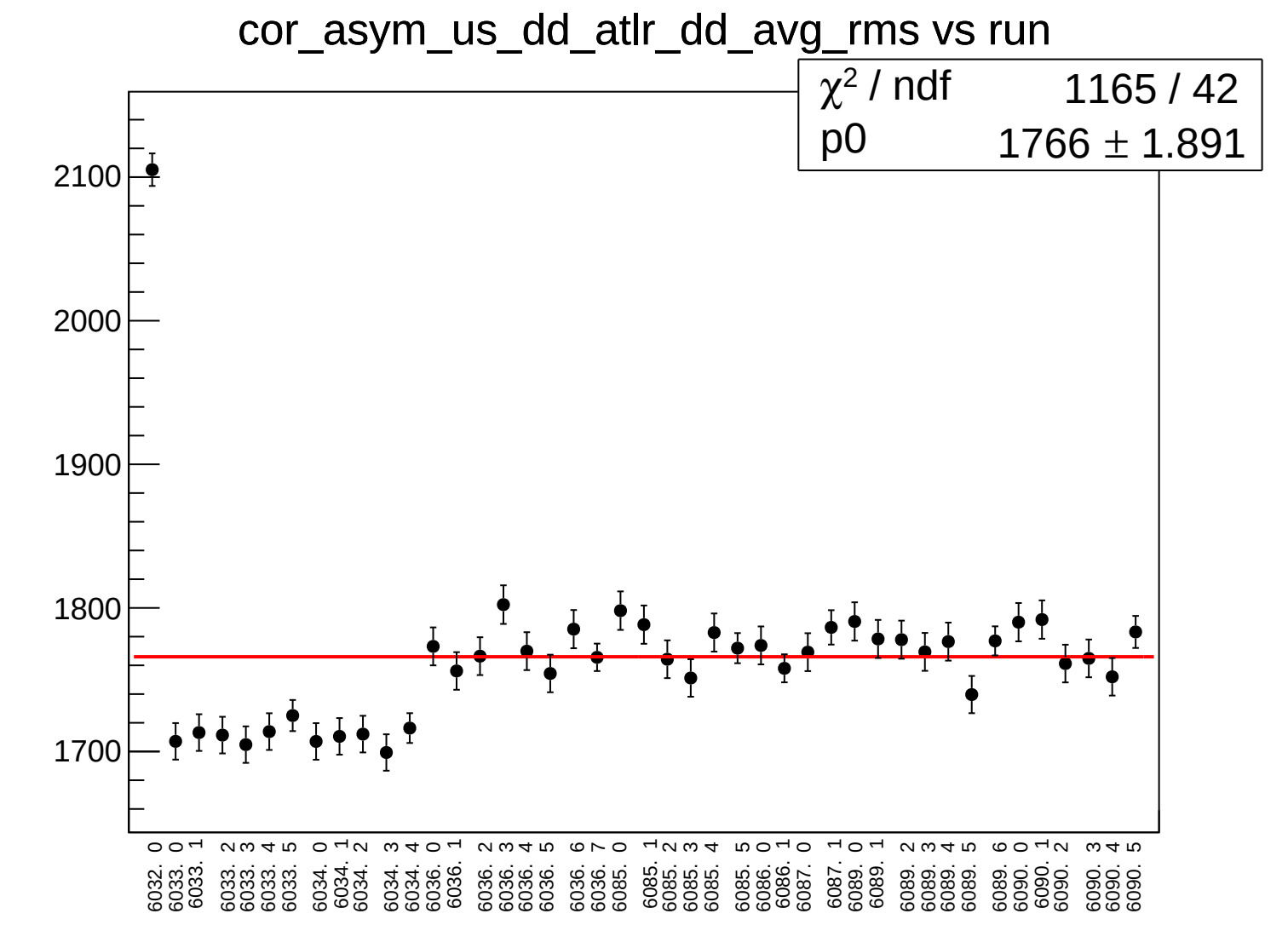

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1165 / 42
p0 1766 ± 1.891
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

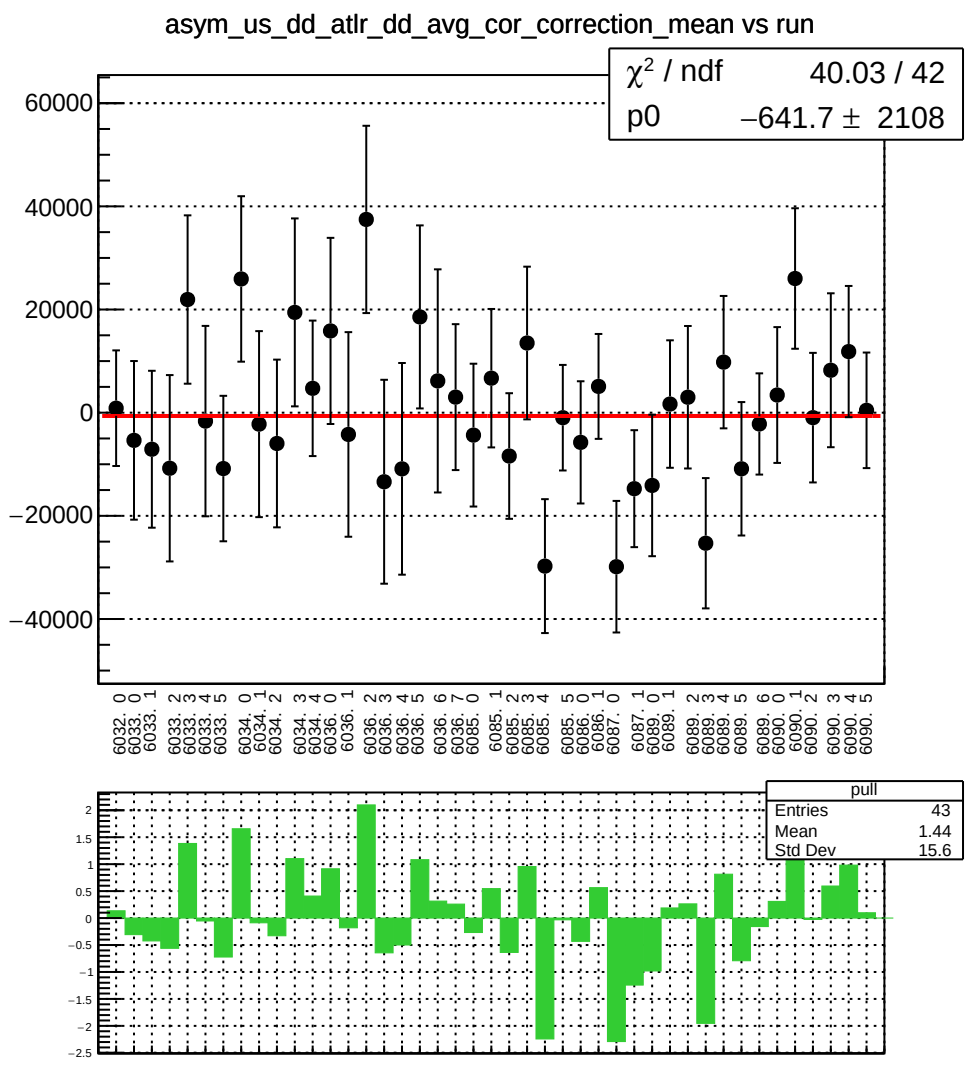

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 40.02 / 42
p0 −641.7 ± 2108
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.424
Std Dev 15.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04092
Std Dev 0.9639
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

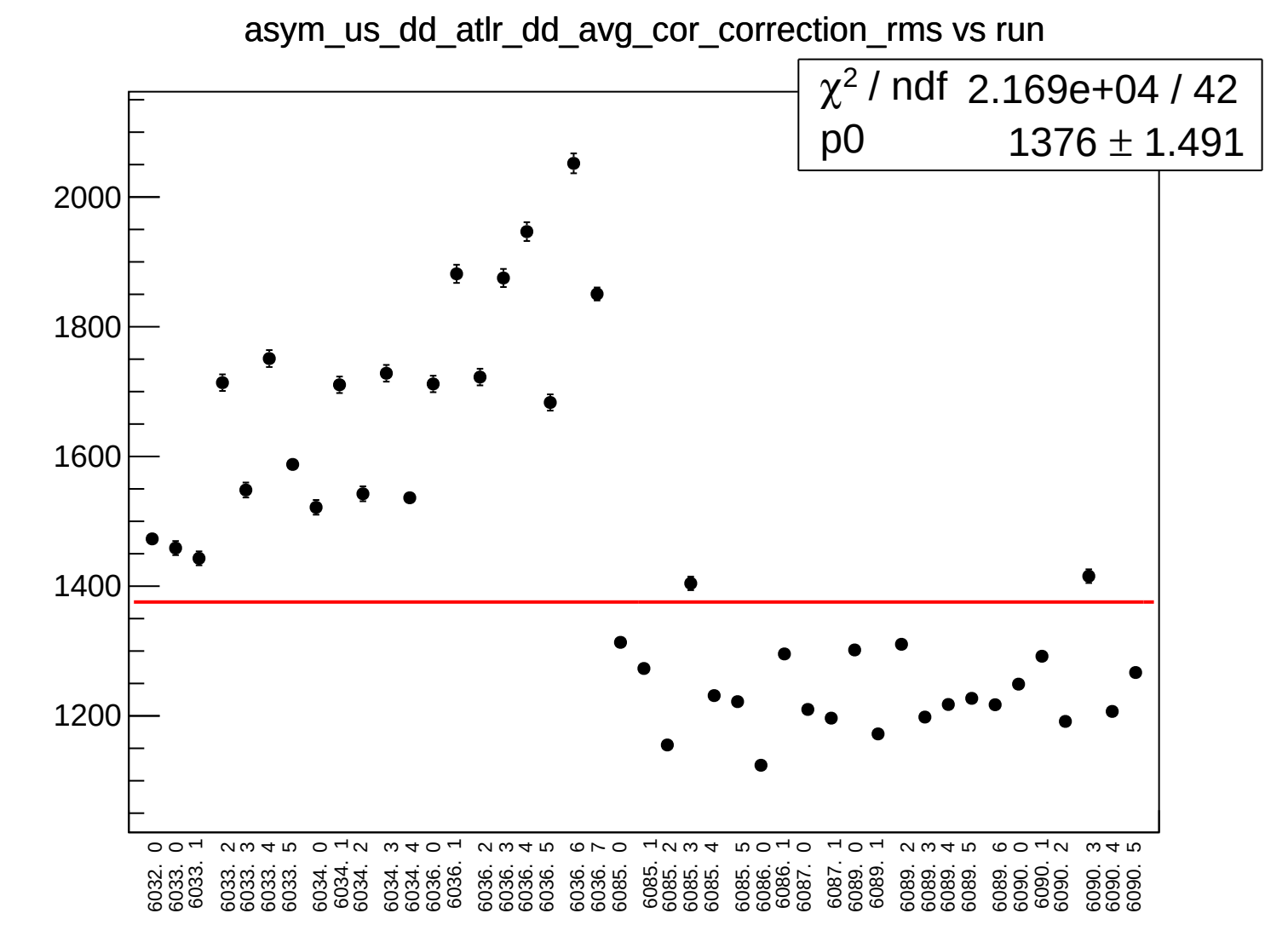

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.169e+04 / 42
p0 1376 ± 1.491
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

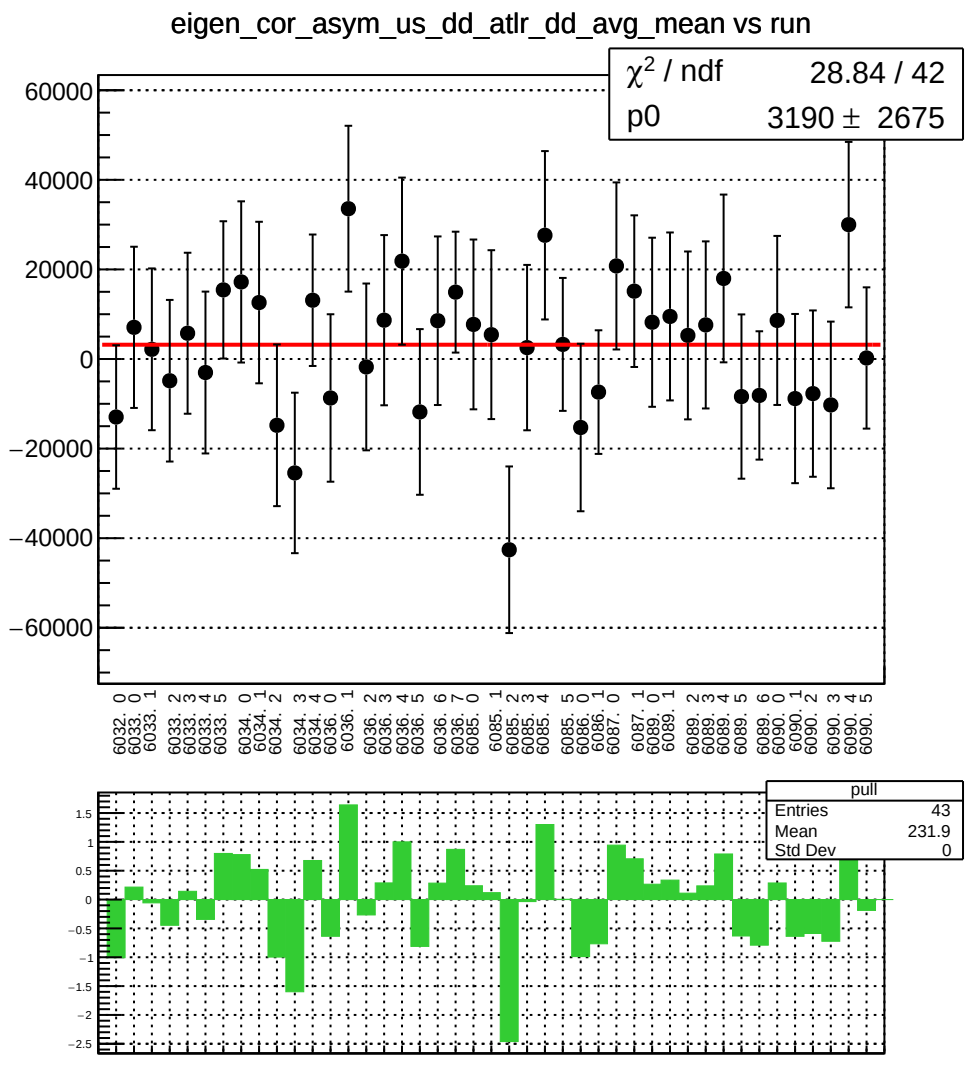

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 28.84 / 42
p0 3190 ± 2675
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 231.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

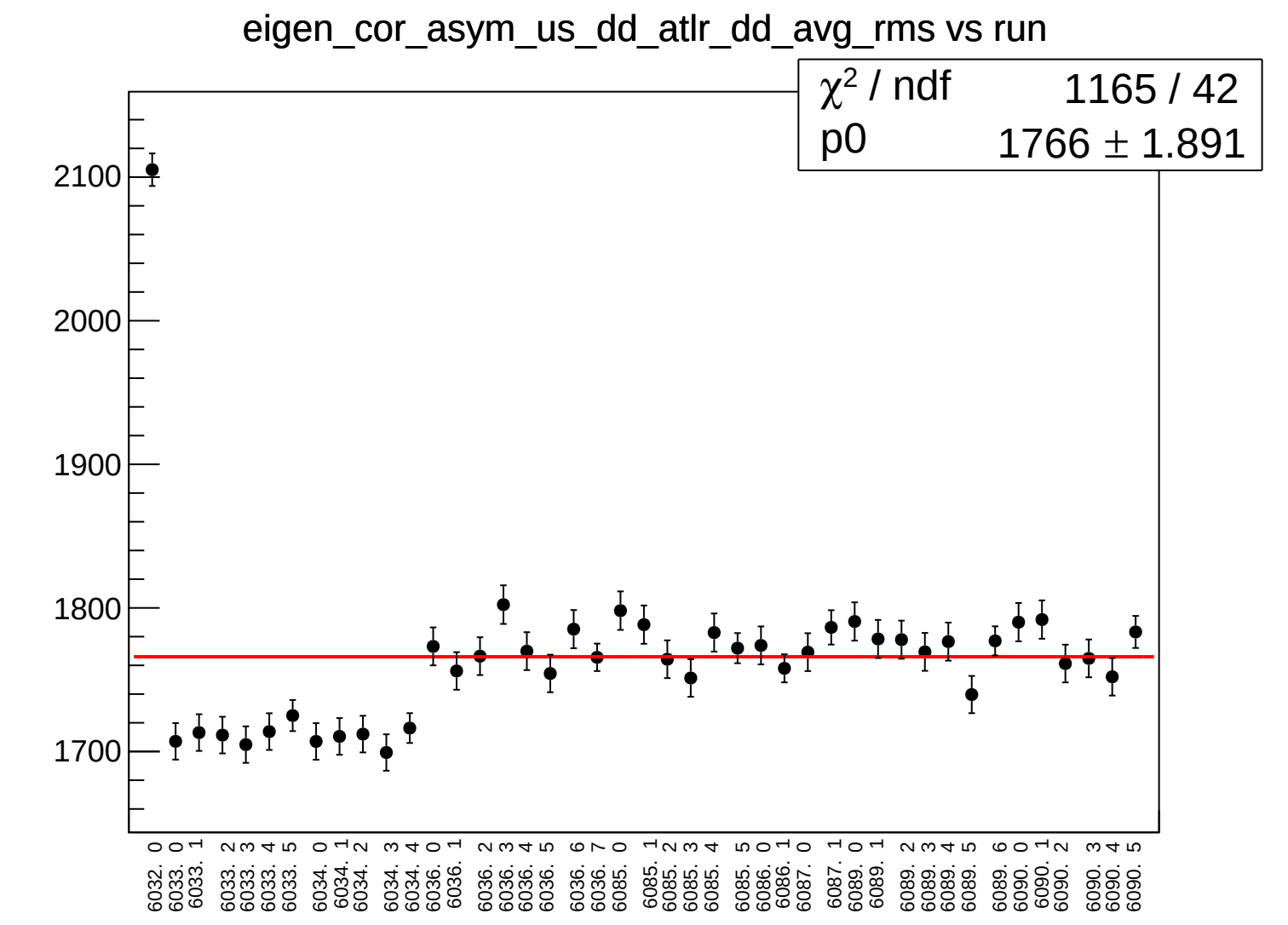

pull1D
Entries 43
Mean 0.0009198
Std Dev 0.819
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

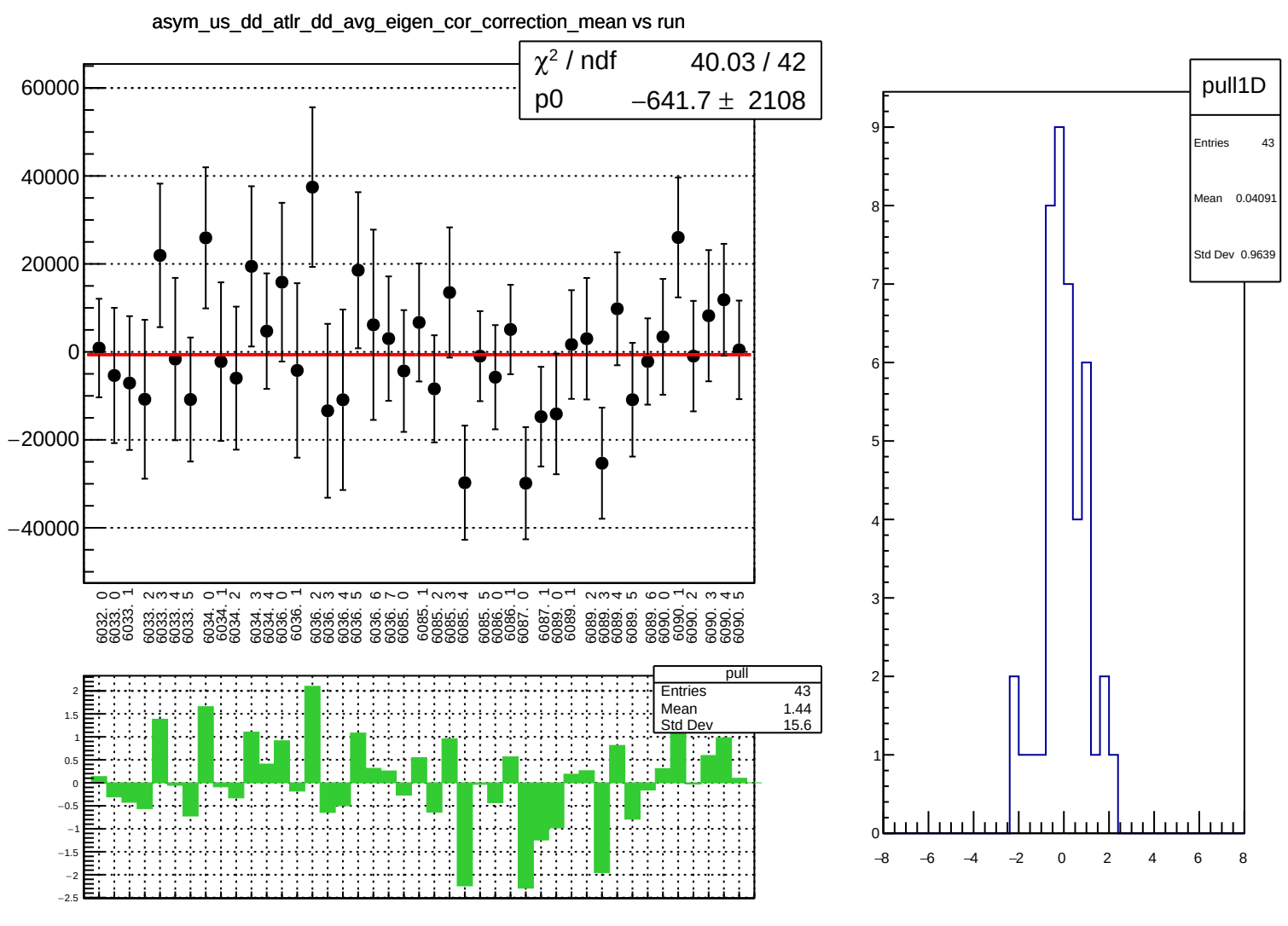

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1165 / 42
p0 1766 ± 1.891
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

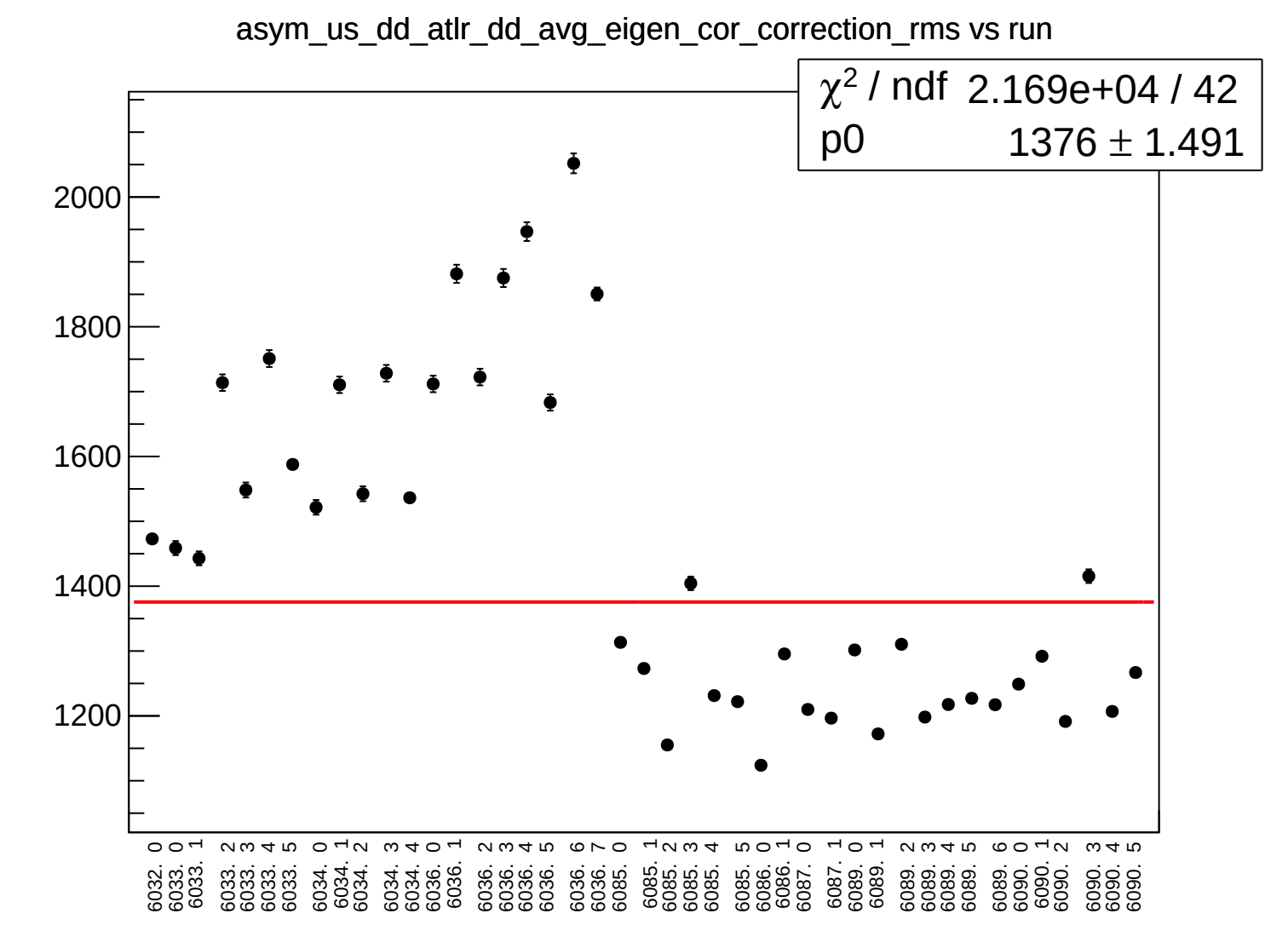

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 40.03 / 42
p0 −641.7 ± 2108
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.44
Std Dev 15.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04091
Std Dev 0.9639
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

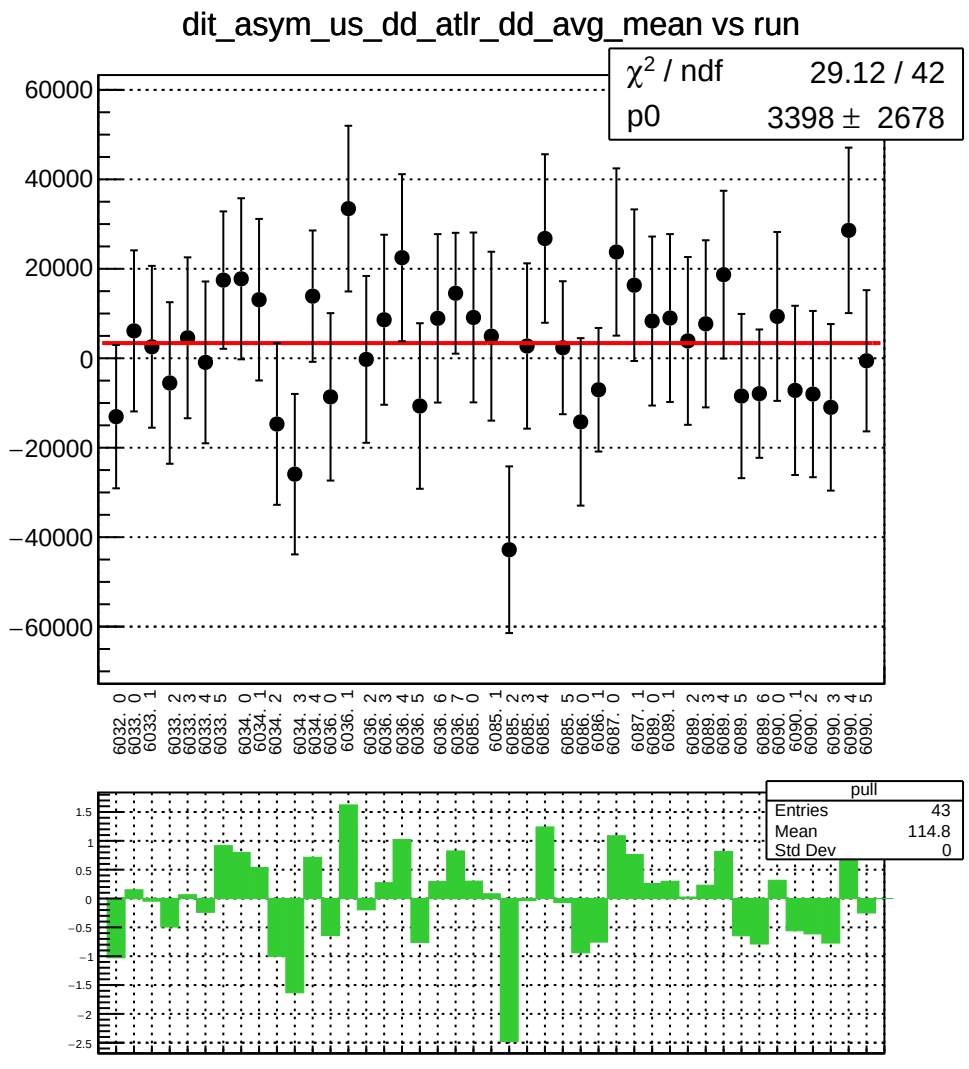

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.169e+04 / 42
p0 1376 ± 1.491
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

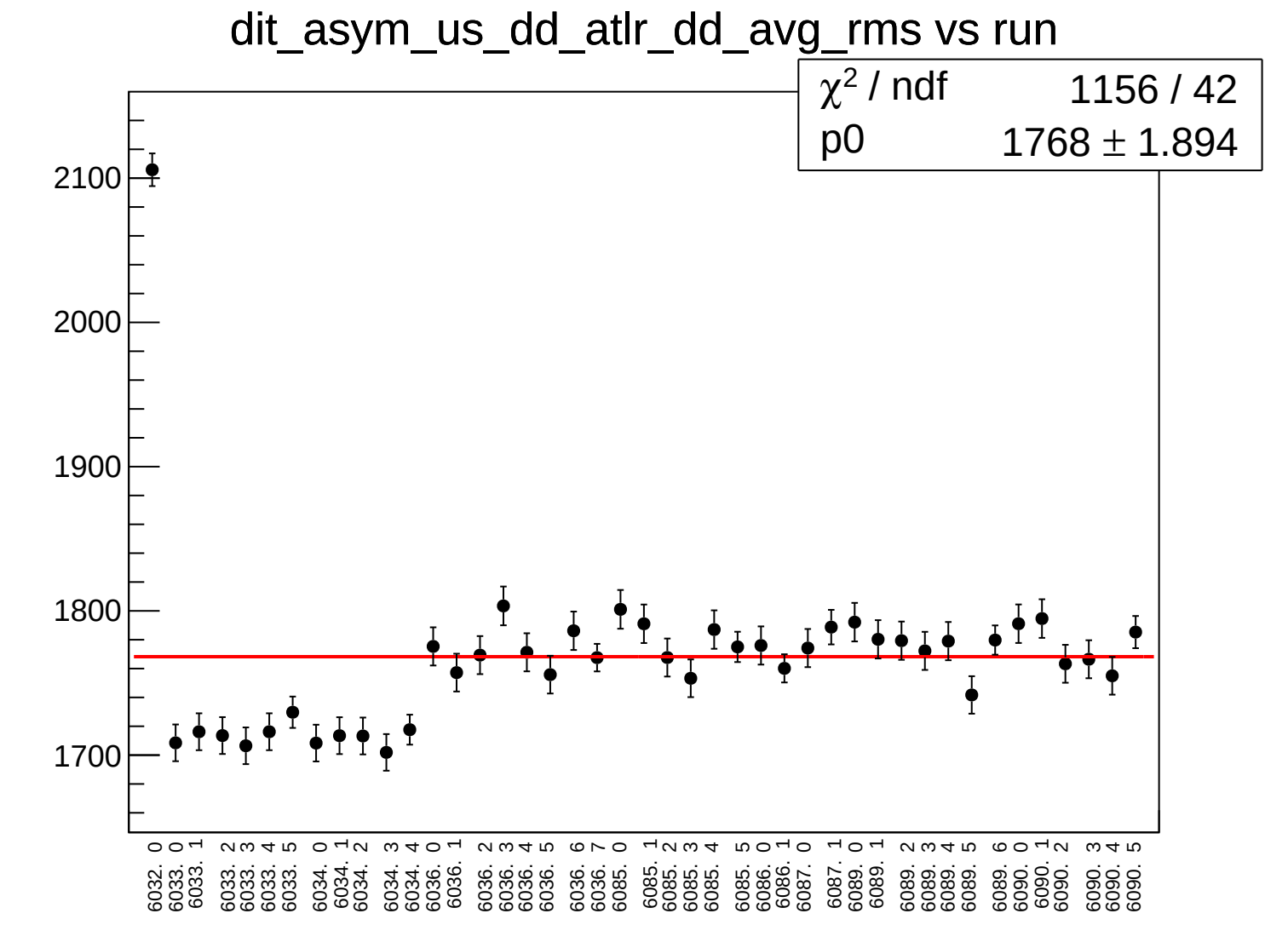

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 28.84 / 42
p0 3190 ± 2675
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 231.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.0009198
Std Dev 0.819
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

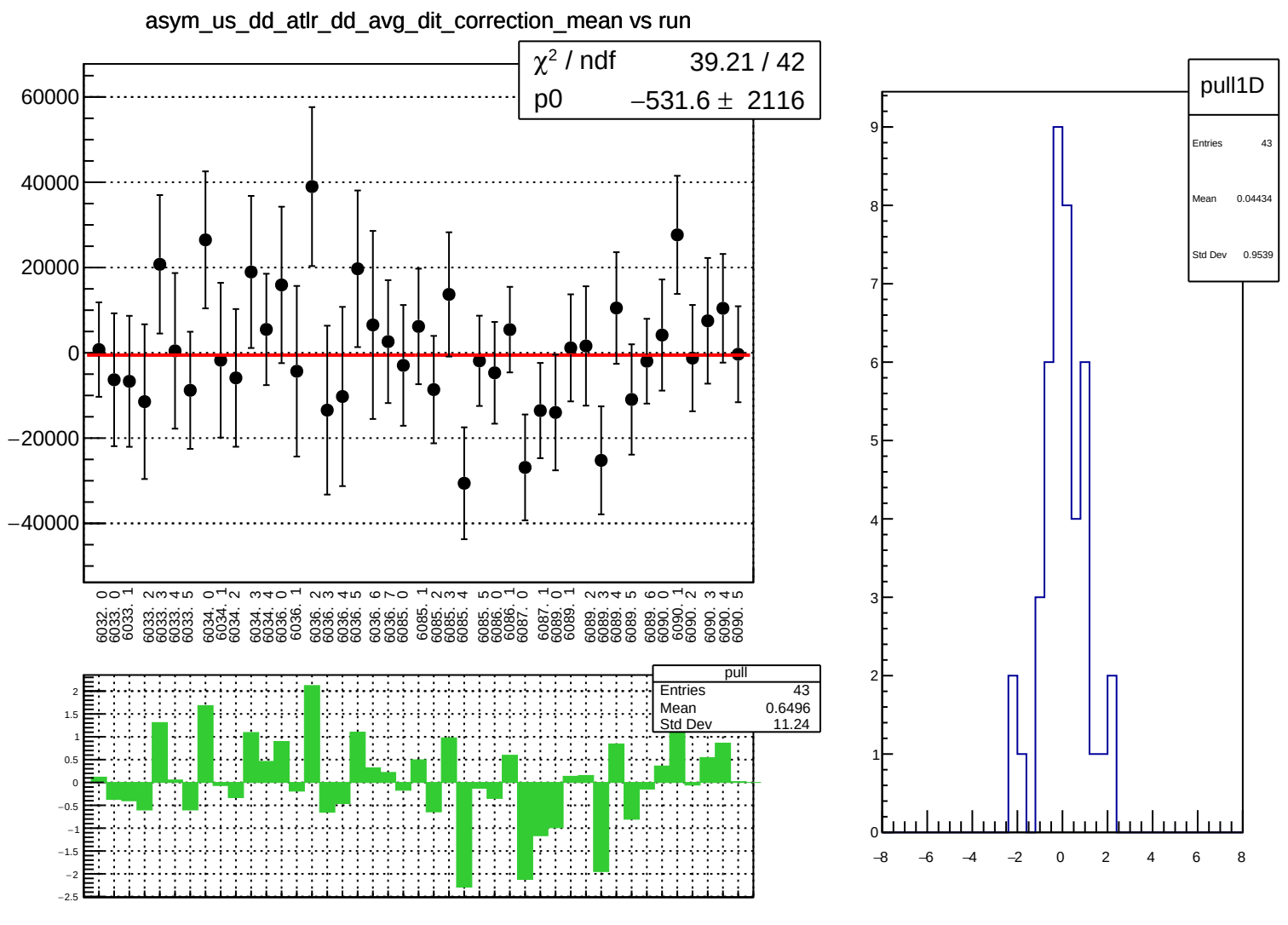

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1165 / 42
p0 1766 ± 1.891
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

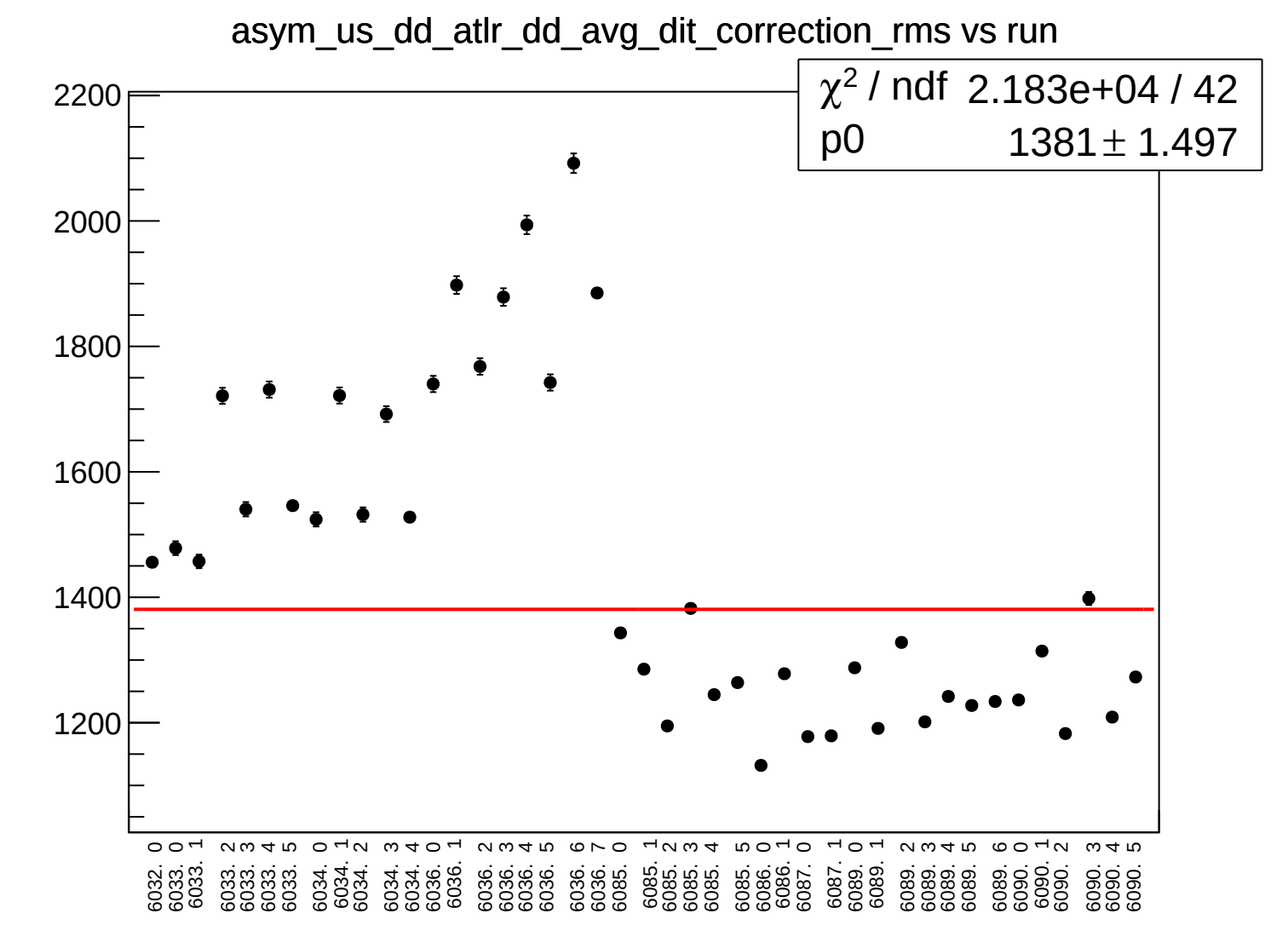

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.03 / 42
p0 −641.7 ± 2108
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.44
Std Dev 15.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04091
Std Dev 0.9639
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_cor_correction_rms vs run
χ² / ndf 2.169e+04 / 42
p0 1376 ± 1.491
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 29.12 / 42
p0 3398 ± 2678
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 114.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.001226
Std Dev 0.8229
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1156 / 42
p0 1768 ± 1.894
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 39.21 / 42
p0 −531.6 ± 2116
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.6496
Std Dev 11.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04434
Std Dev 0.9539
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_dit_correction_rms vs run
χ² / ndf 2.183e+04 / 42
p0 1381 ± 1.497
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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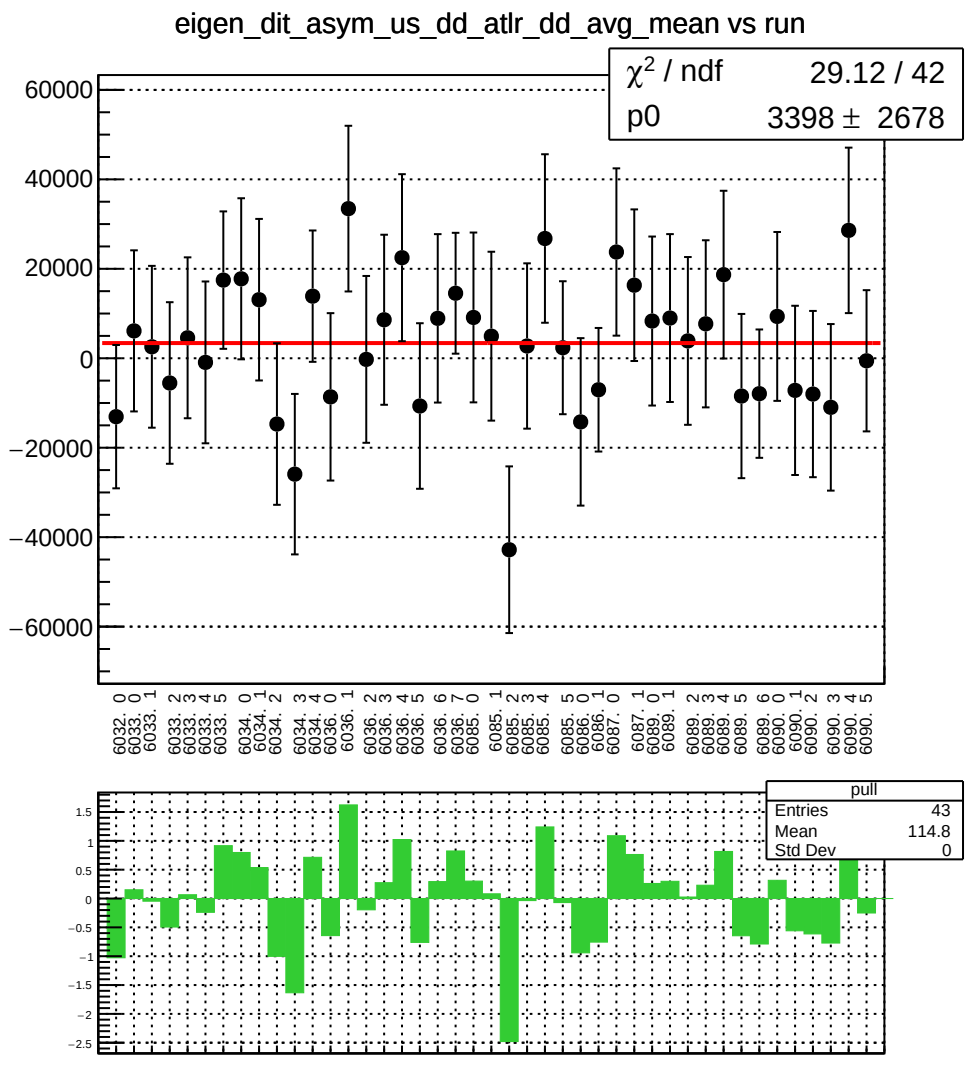
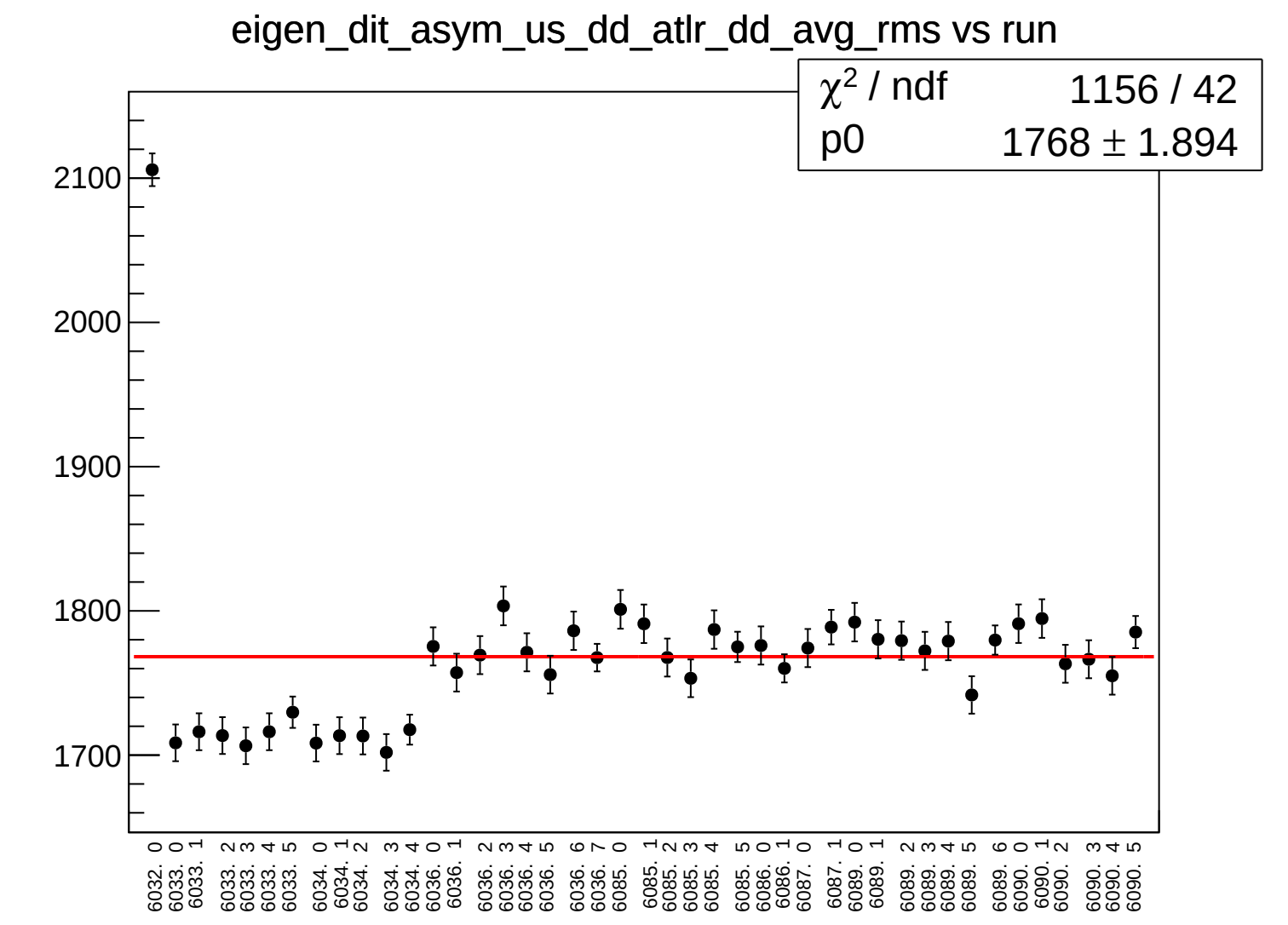
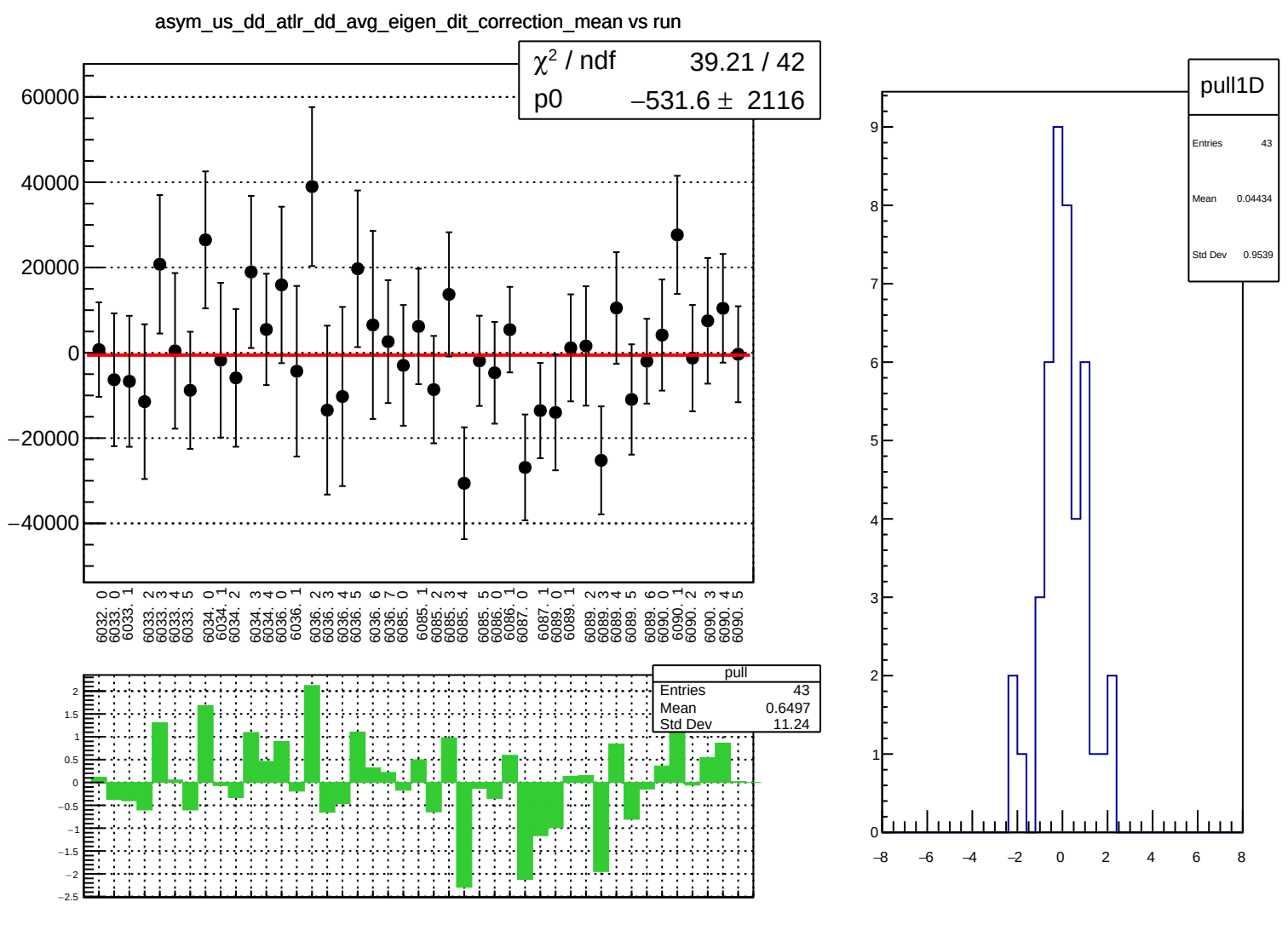
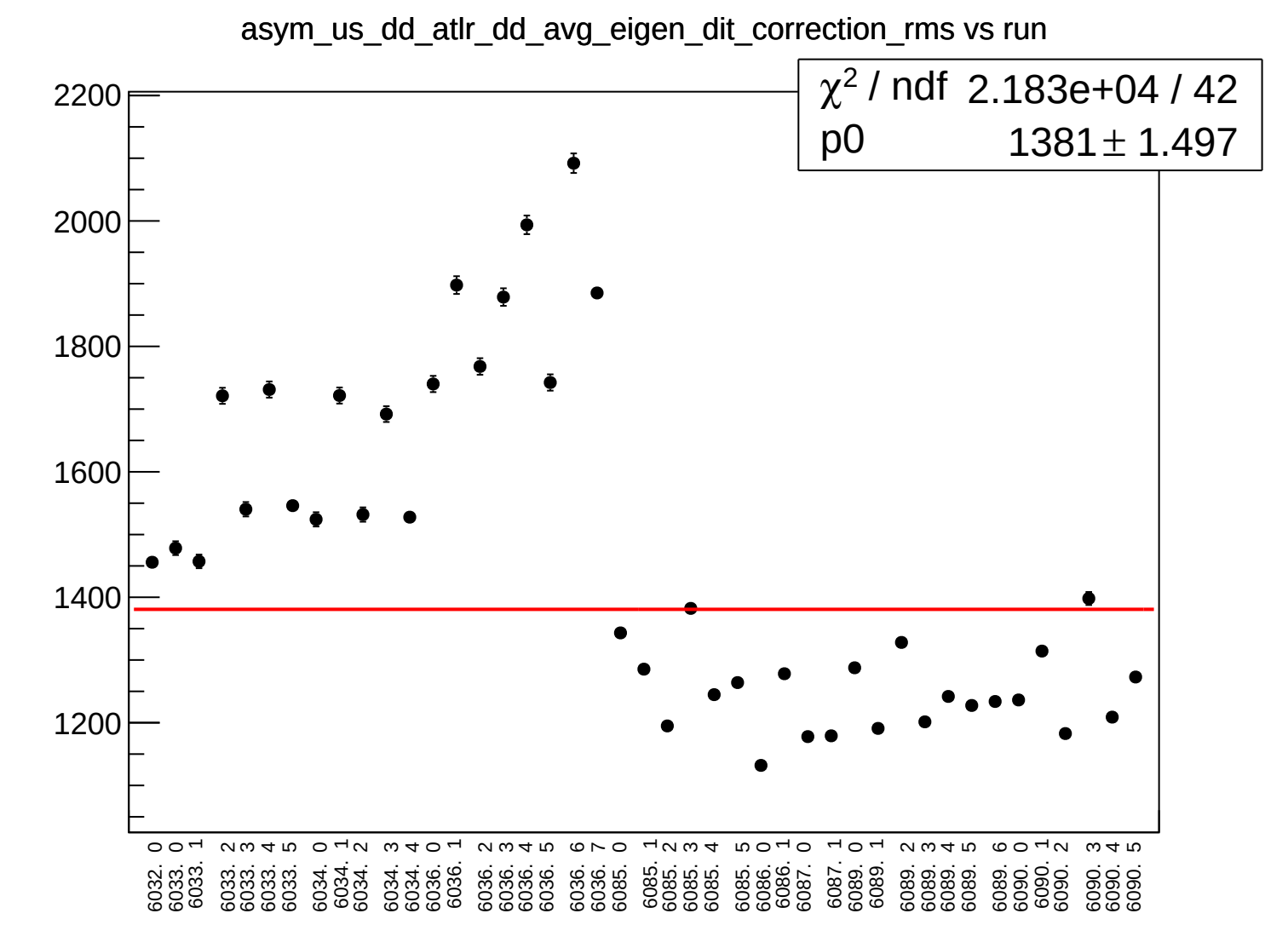
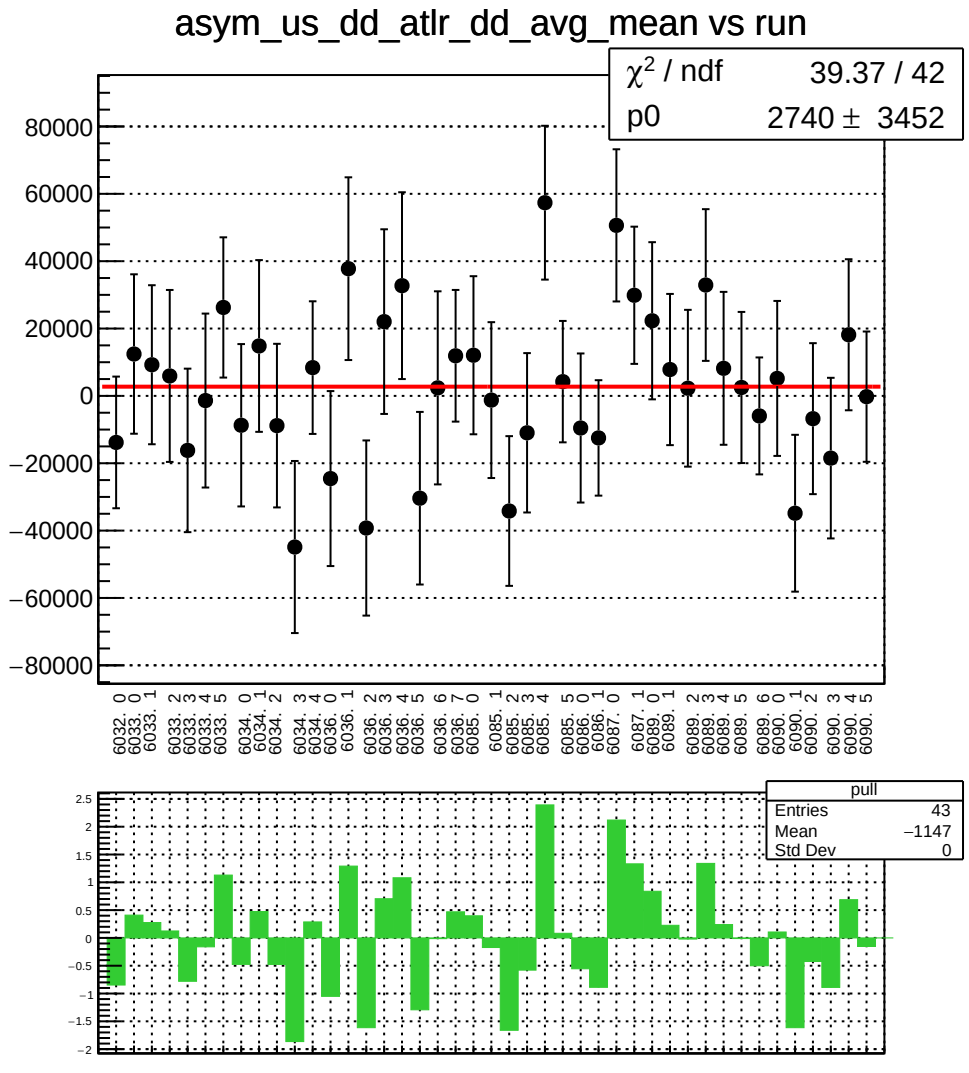
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

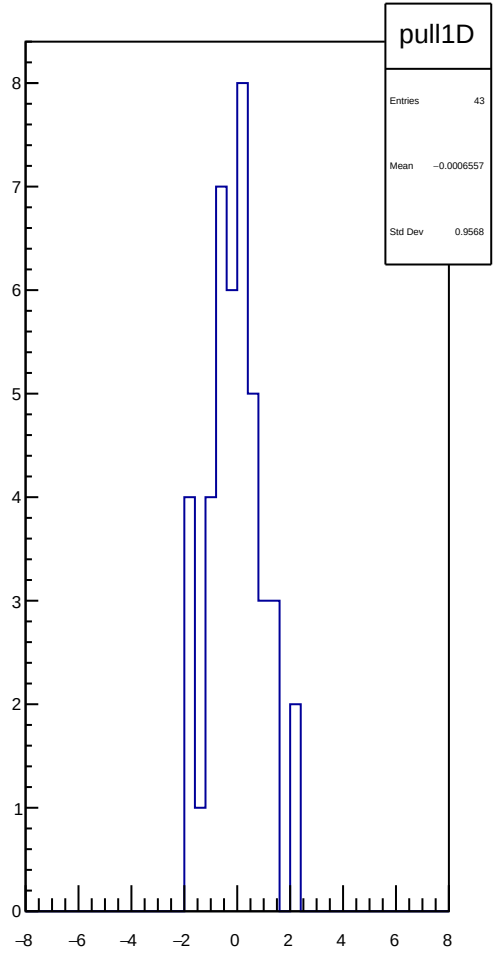

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 29.12 / 42
p0 3398 ± 2678
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 114.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.001226
Std Dev 0.8229
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

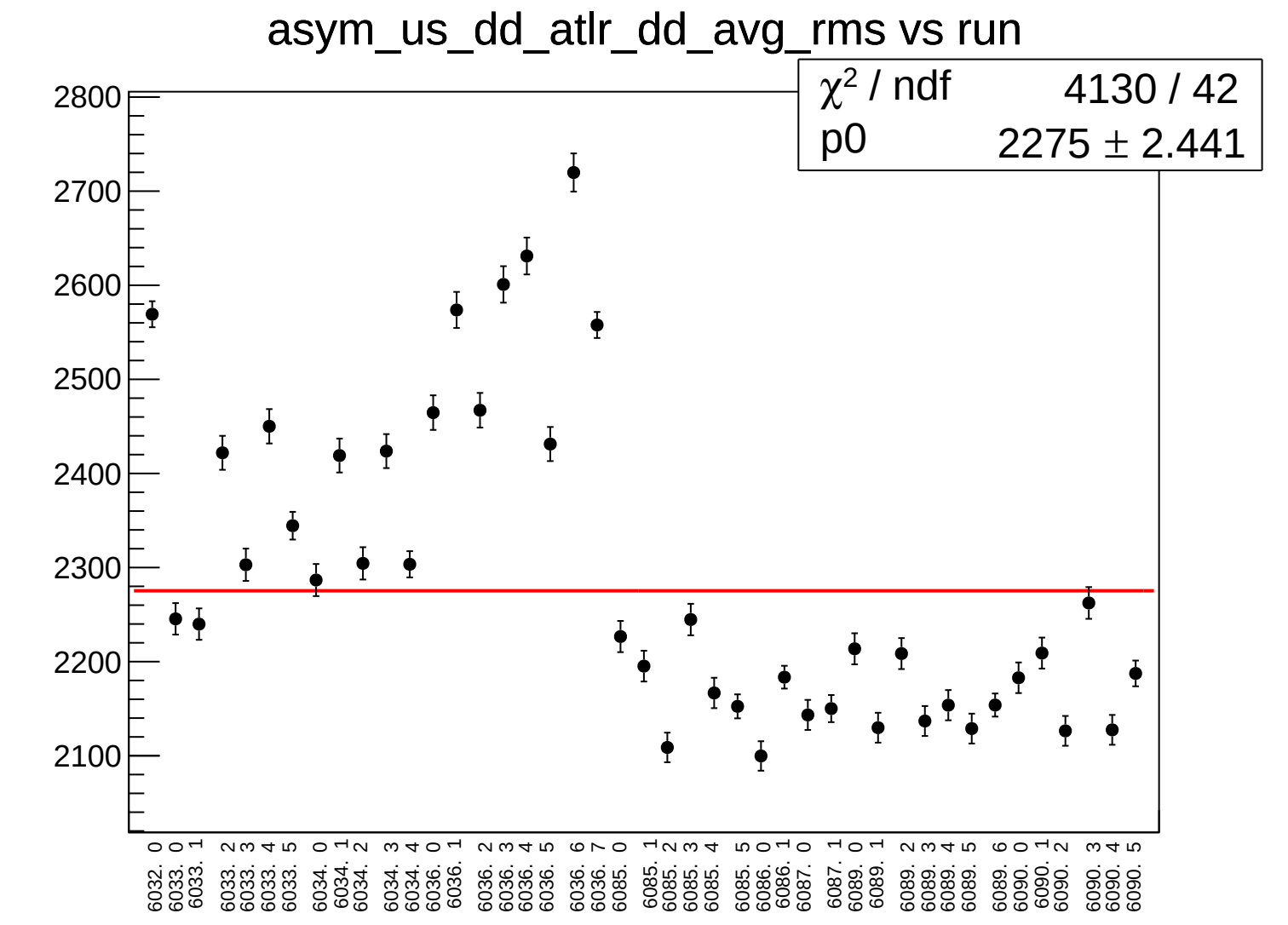

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1156 / 42
p0 1768 ± 1.894
2100
2000
1900
1800
1700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.21 / 42
p0 −531.6 ± 2116
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.6497
Std Dev 11.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04434
Std Dev 0.9539
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 2.183e+04 / 42
p0 1381 ± 1.497
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 39.37 / 42
p0 2740 ± 3452
pull
Entries 43
Mean −1147
Std Dev 0


pull1D
Entries 43
Mean −0.0006557
Std Dev 0.9568


asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 4130 / 42
p0 2275 ± 2.441
2800
2700
2600
2500
2400
2300
2200
2100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
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6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
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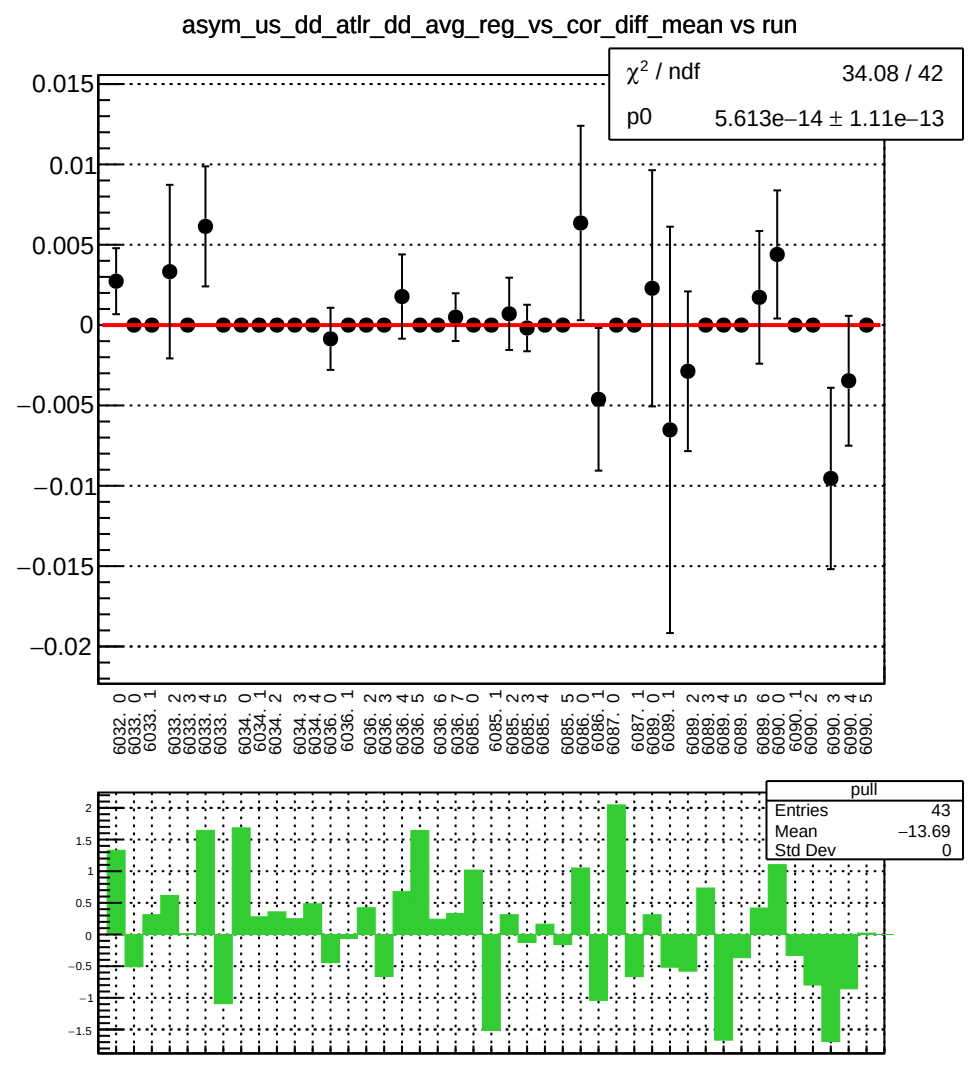
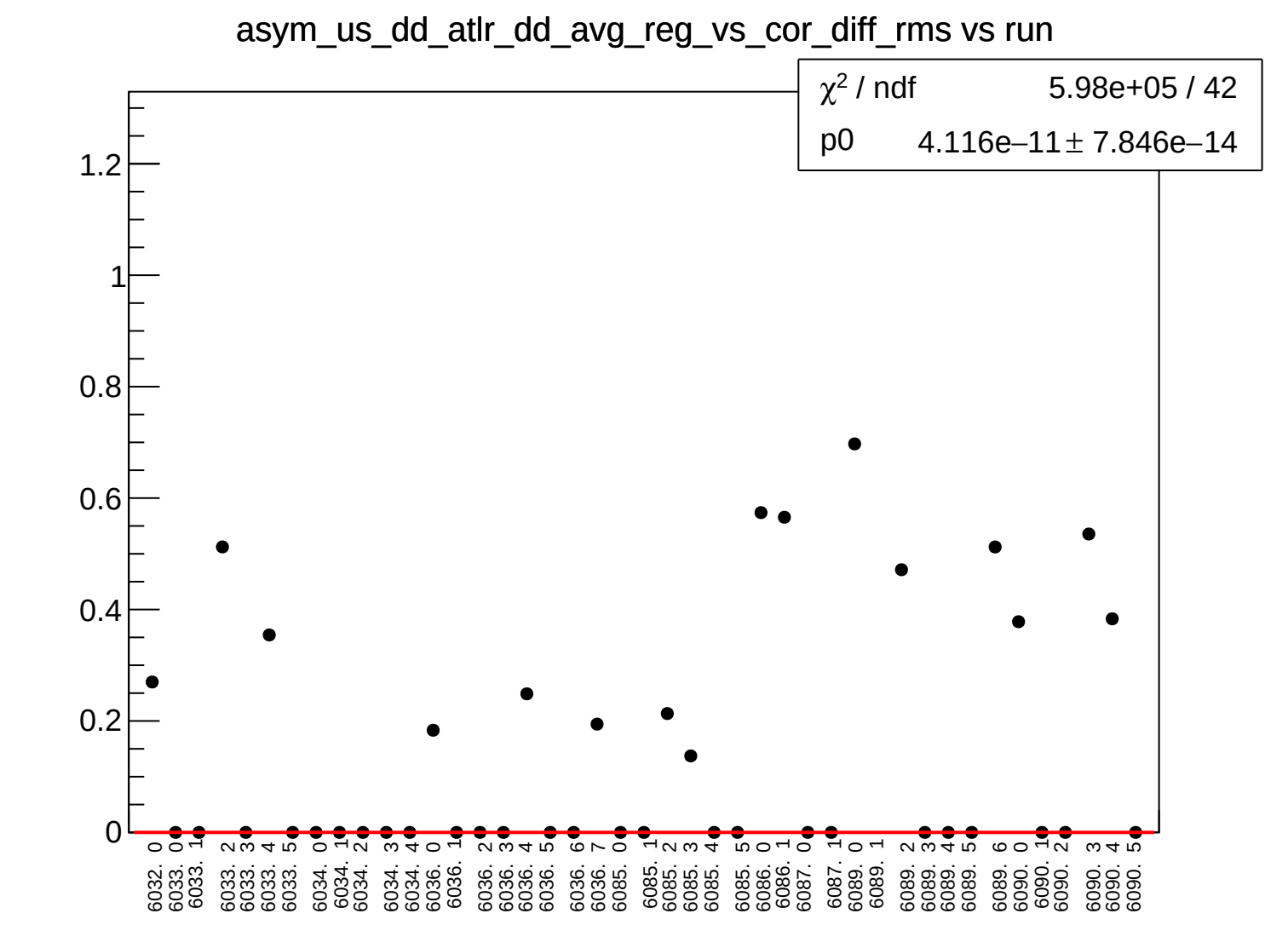
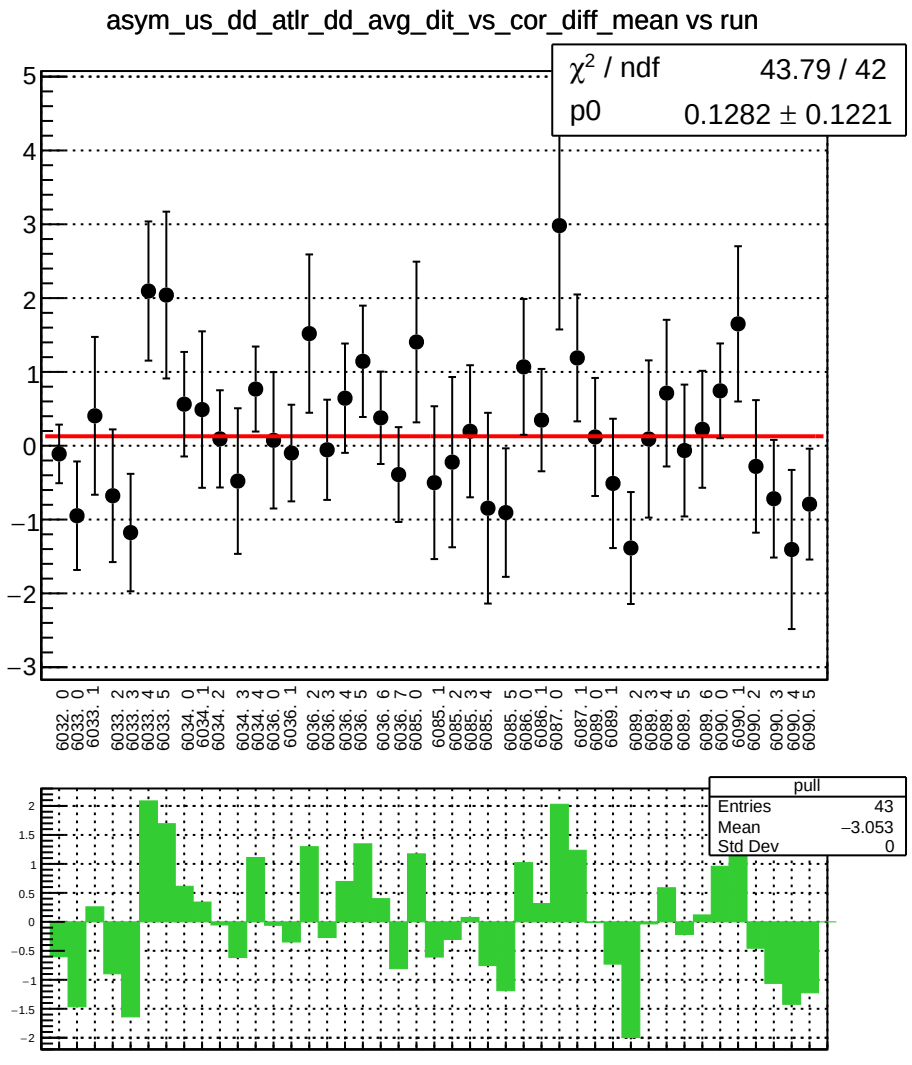
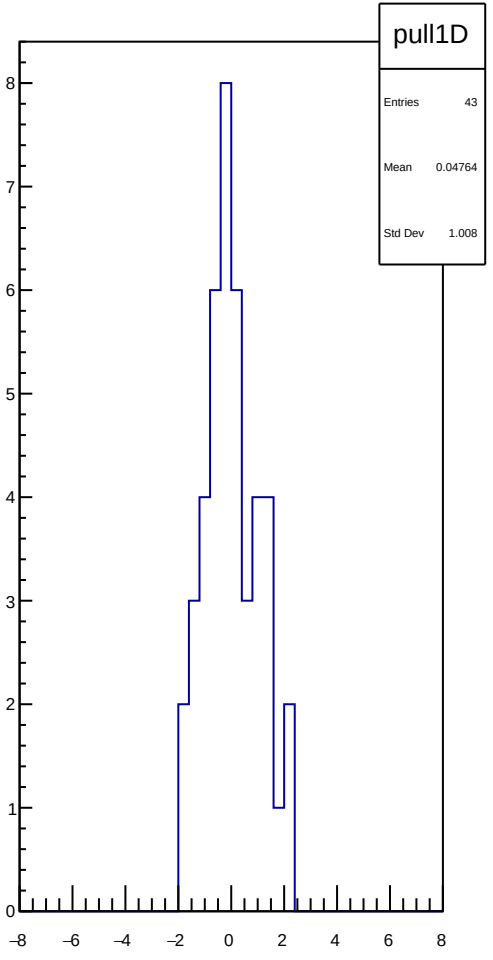
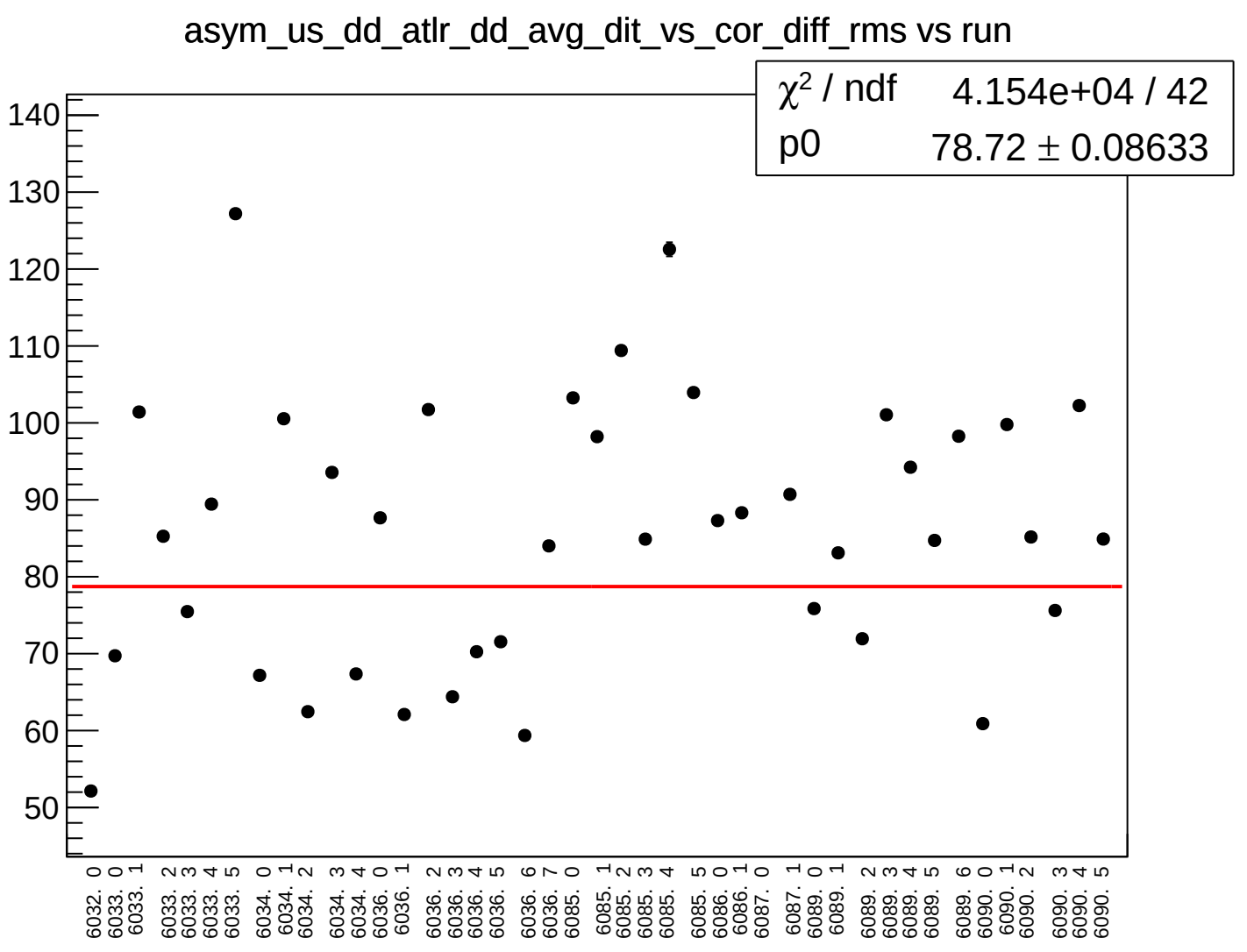
6090. 2
6090. 3
6090. 4
6090. 5

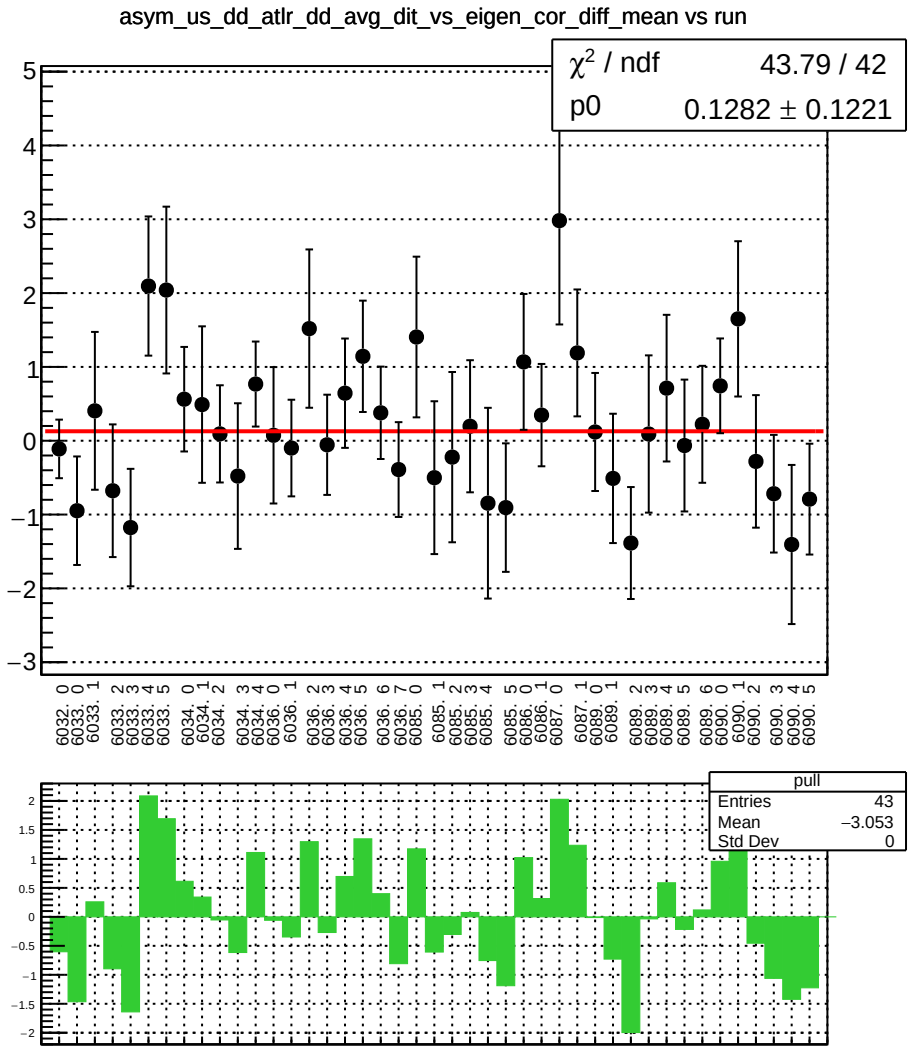

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.08 / 42
p0 5.613e−14 ± 1.11e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1021
Std Dev 0.8844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

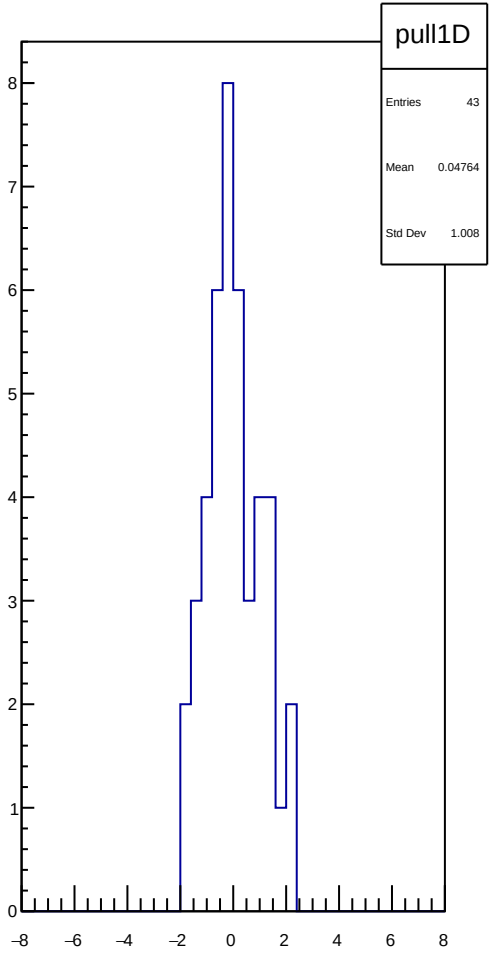

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.98e+05 / 42
p0 4.116e−11 ± 7.846e−14
1.2
1
0.8
0.6
0.4
0.2
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

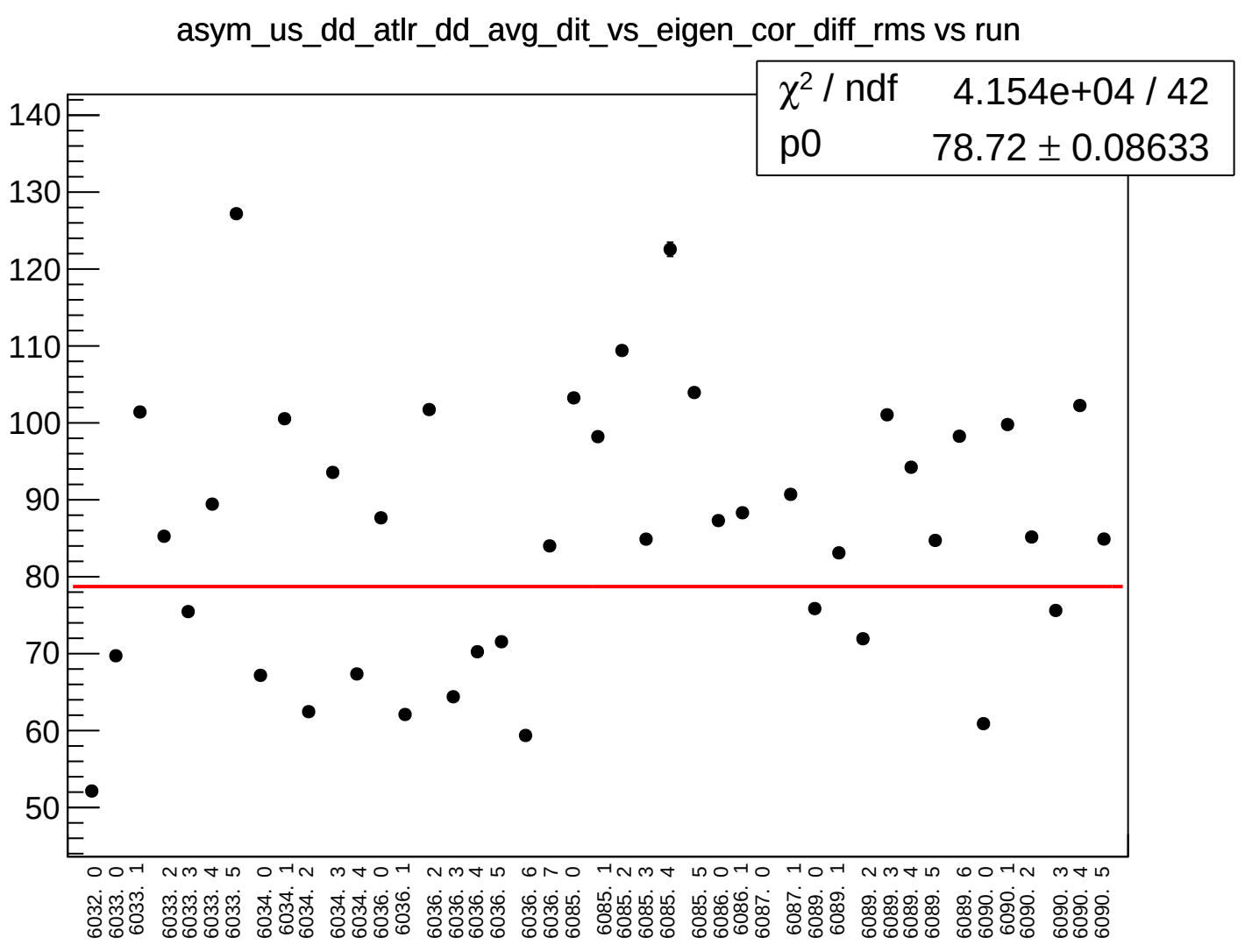

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 0.1282 ± 0.1221
pull
Entries 43
Mean −3.053
Std Dev 0

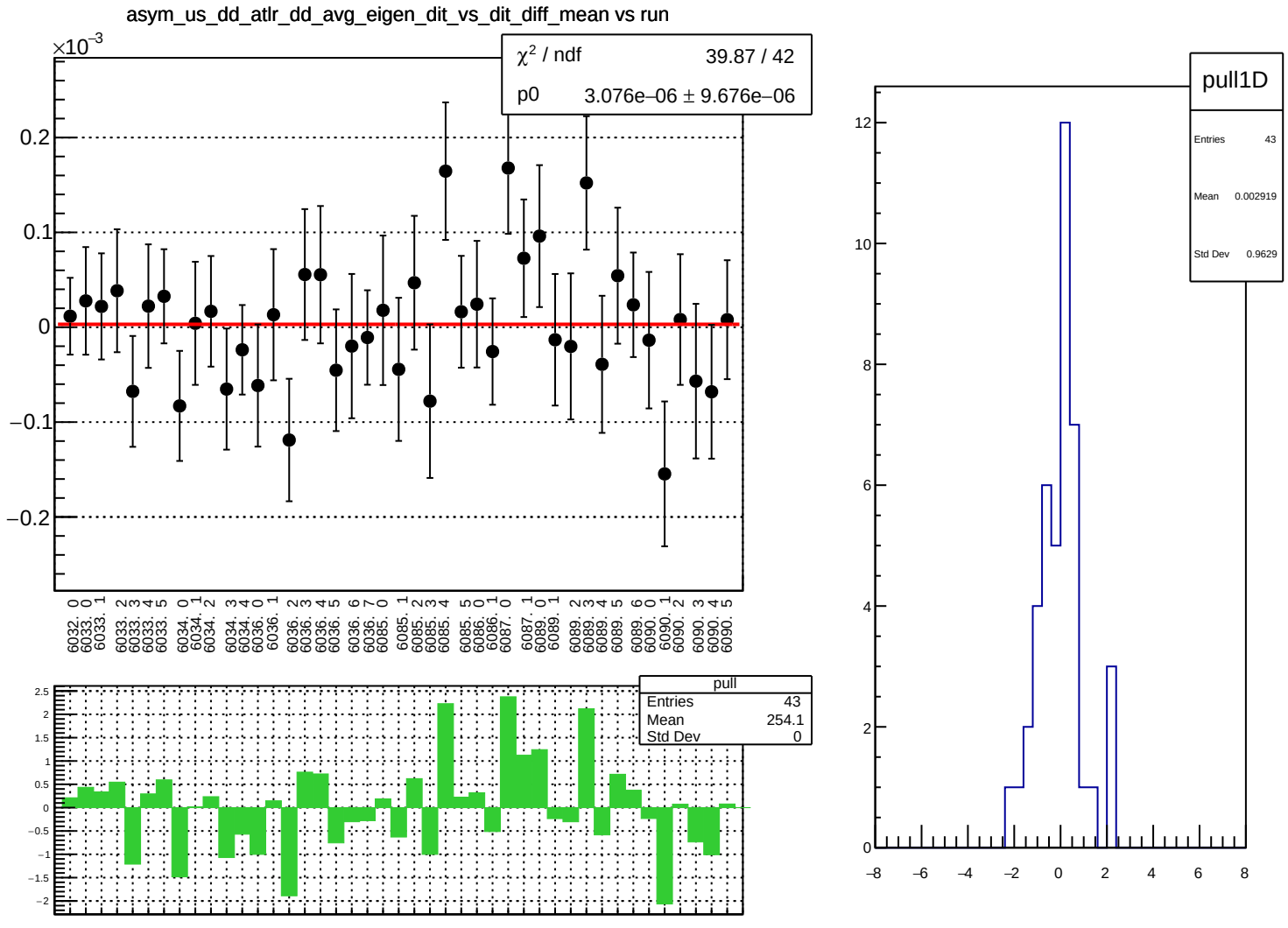

pull1D
Entries 43
Mean 0.04764
Std Dev 1.008

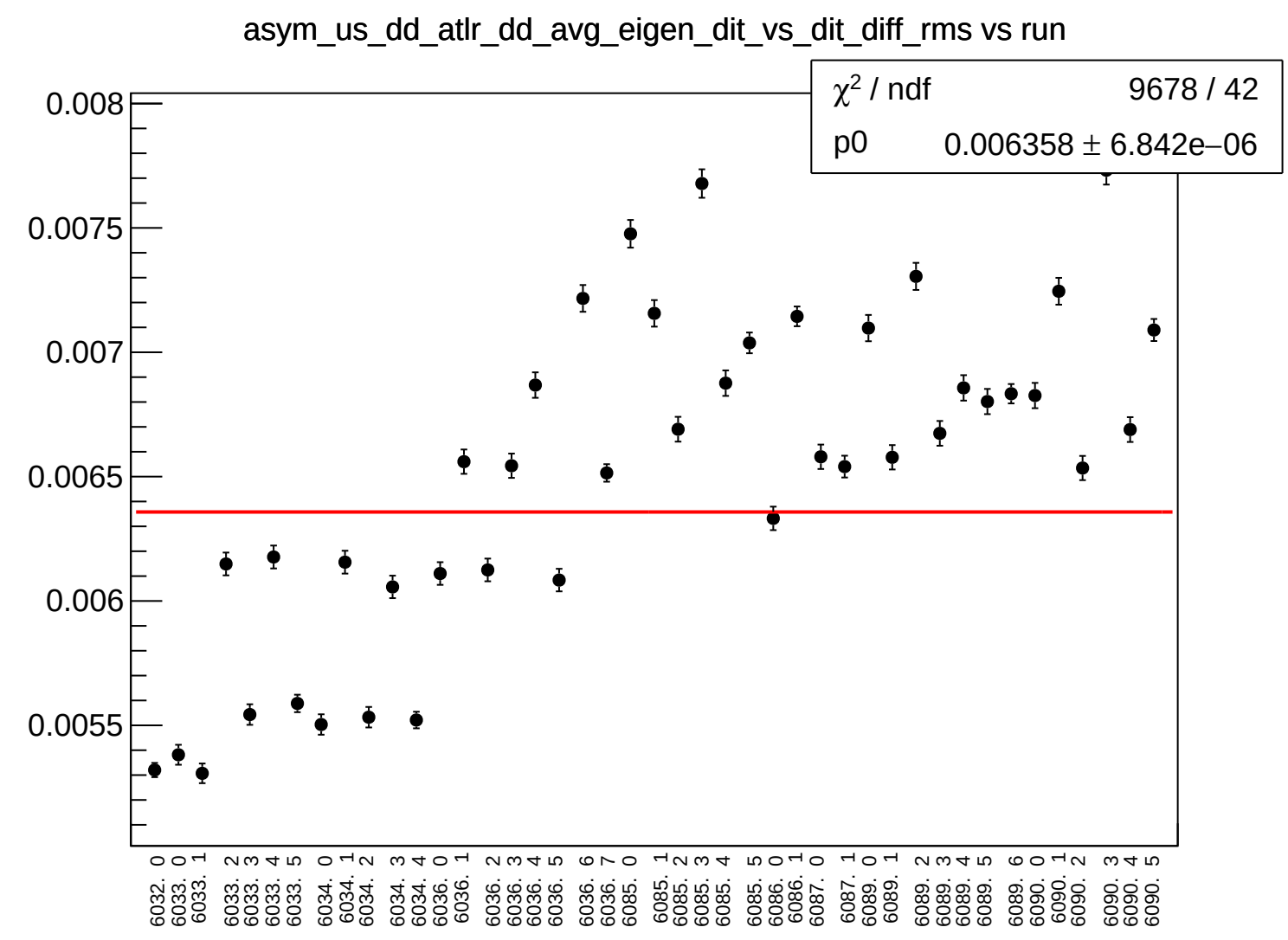

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.154e+04 / 42
p0 78.72 ± 0.08633
140
130
120
110
100
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

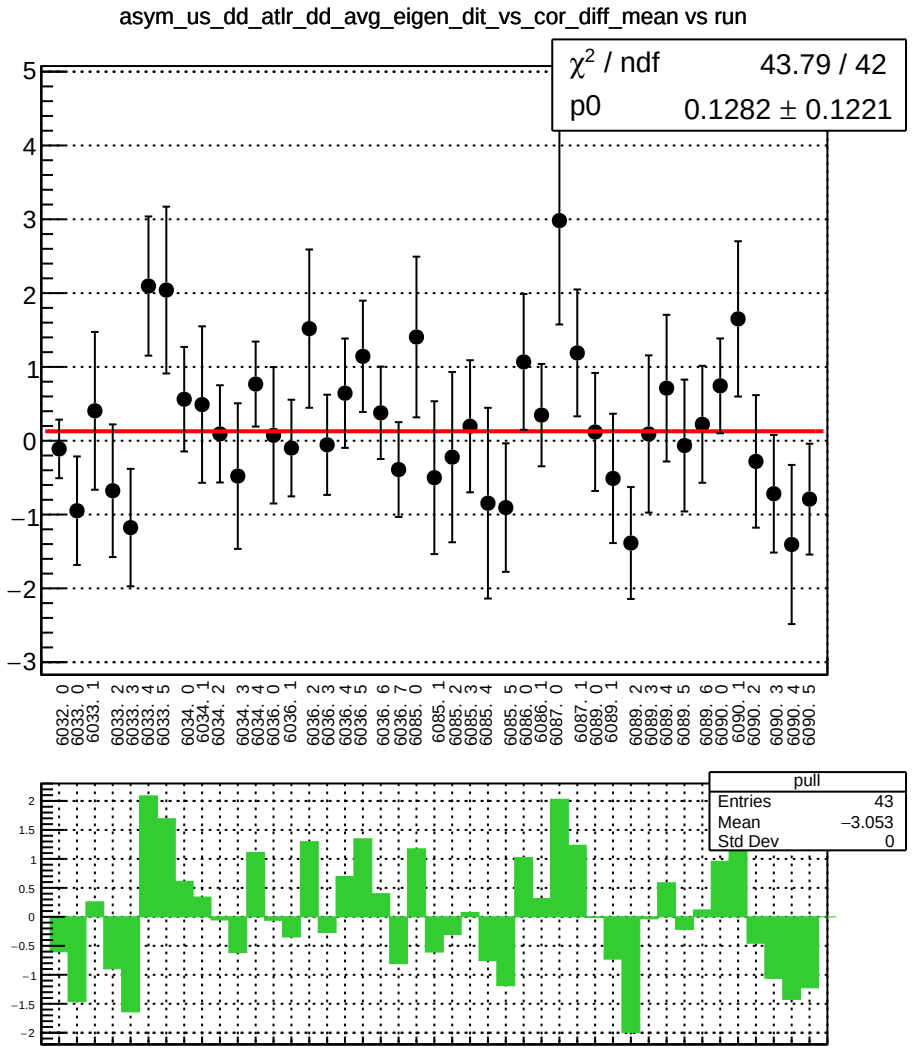

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 0.1282 ± 0.1221
pull
Entries 43
Mean −3.053
Std Dev 0

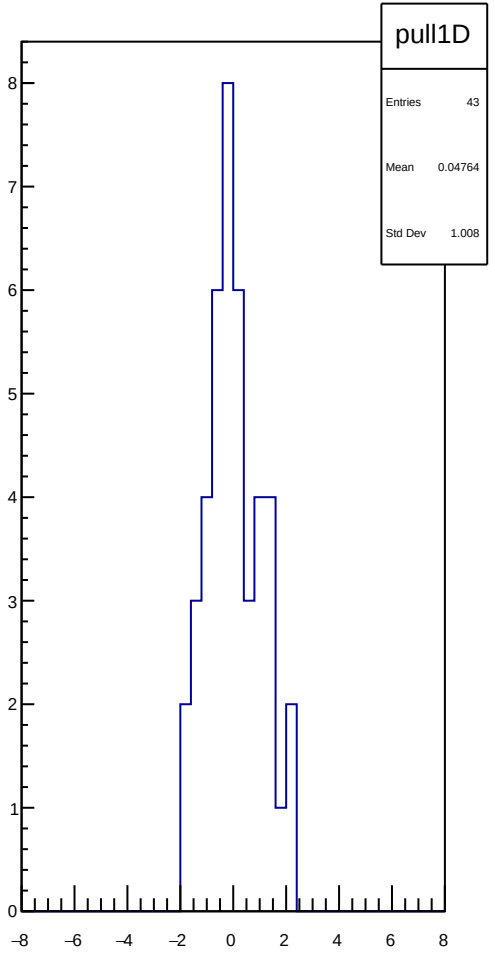

pull1D
Entries 43
Mean 0.04764
Std Dev 1.008

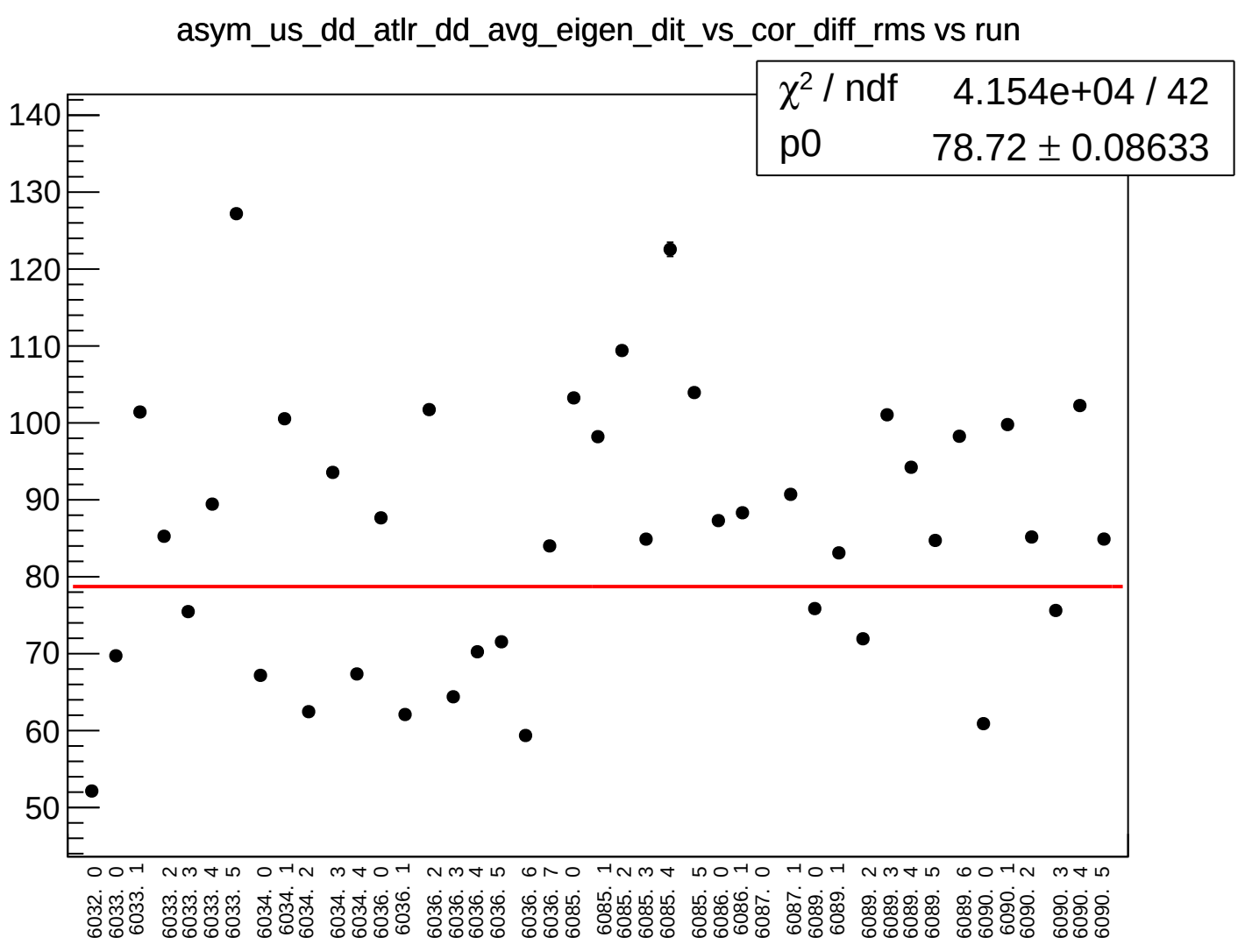

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.154e+04 / 42
p0 78.72 ± 0.08633
140
130
120
110
100
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

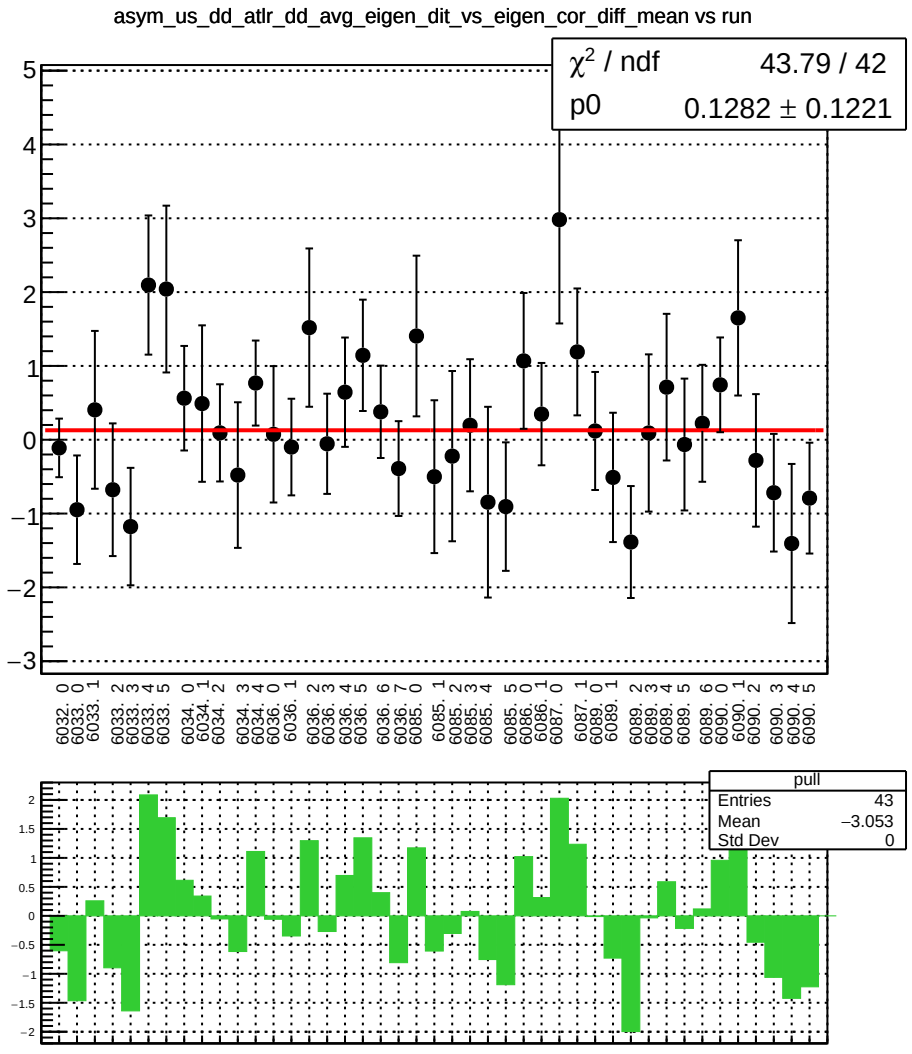

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.87 / 42
p0 3.076e−06 ± 9.676e−06
0.2
0.1
0
−0.1
−0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 254.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.002919
Std Dev 0.9629
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

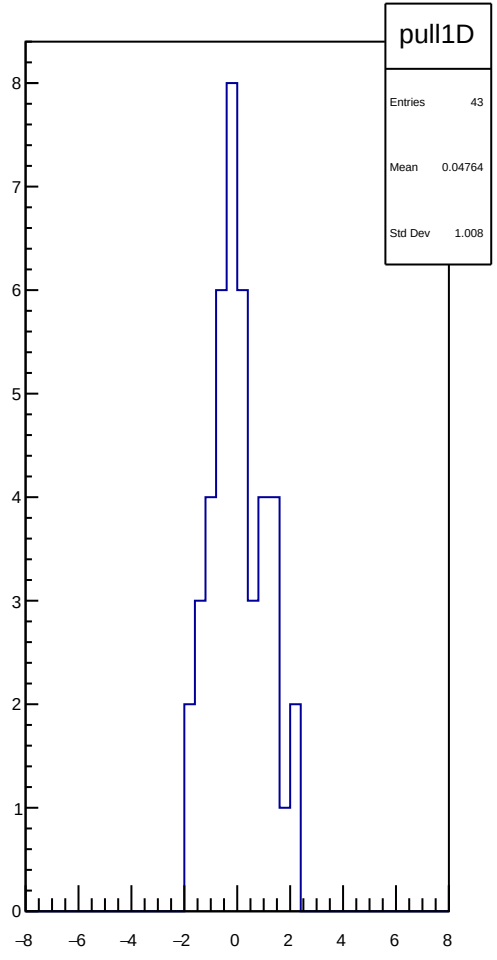

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9678 / 42
p0 0.006358 ± 6.842e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

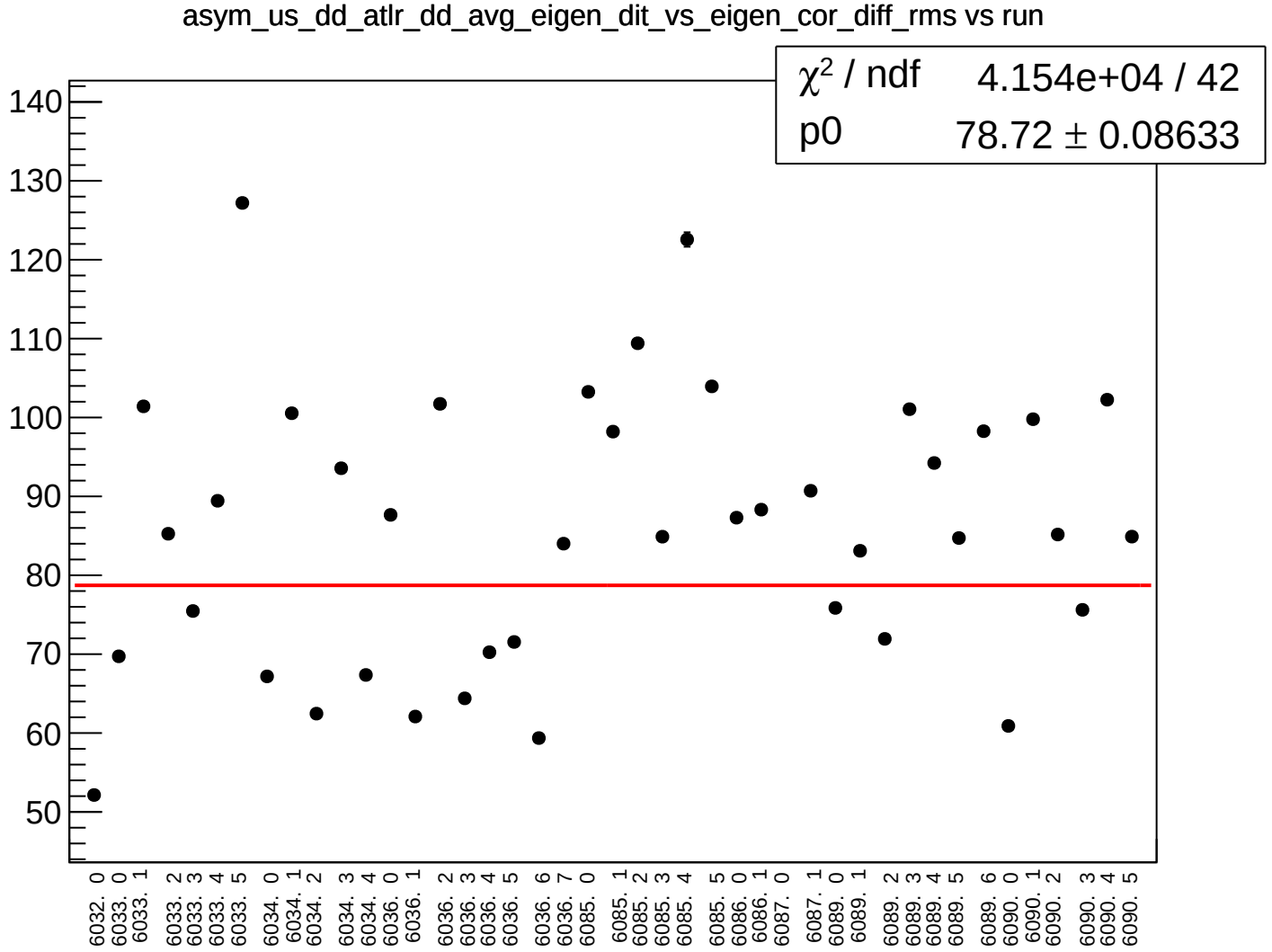

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 0.1282 ± 0.1221
pull
Entries 43
Mean −3.053
Std Dev 0

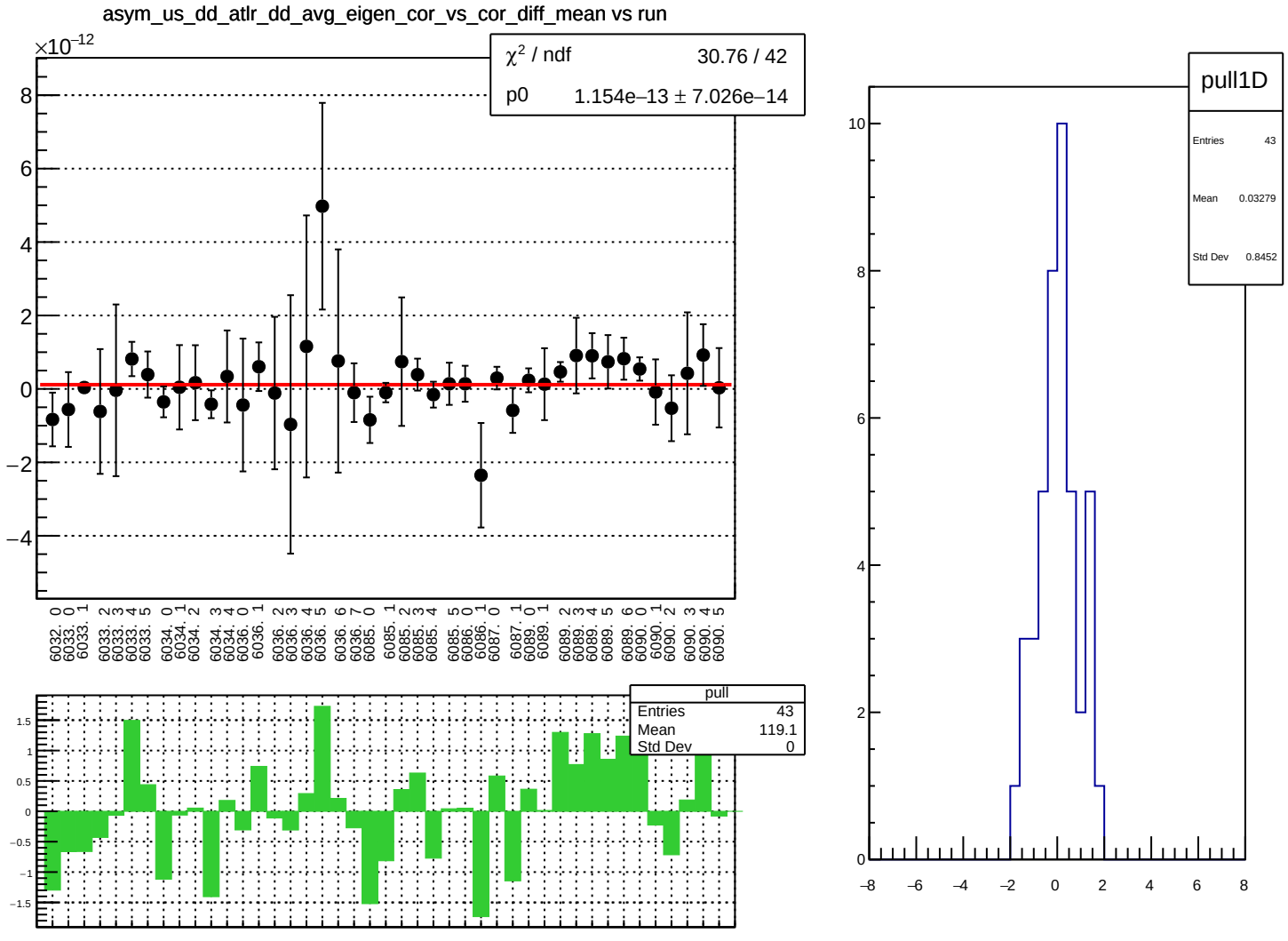

pull1D
Entries 43
Mean 0.04764
Std Dev 1.008

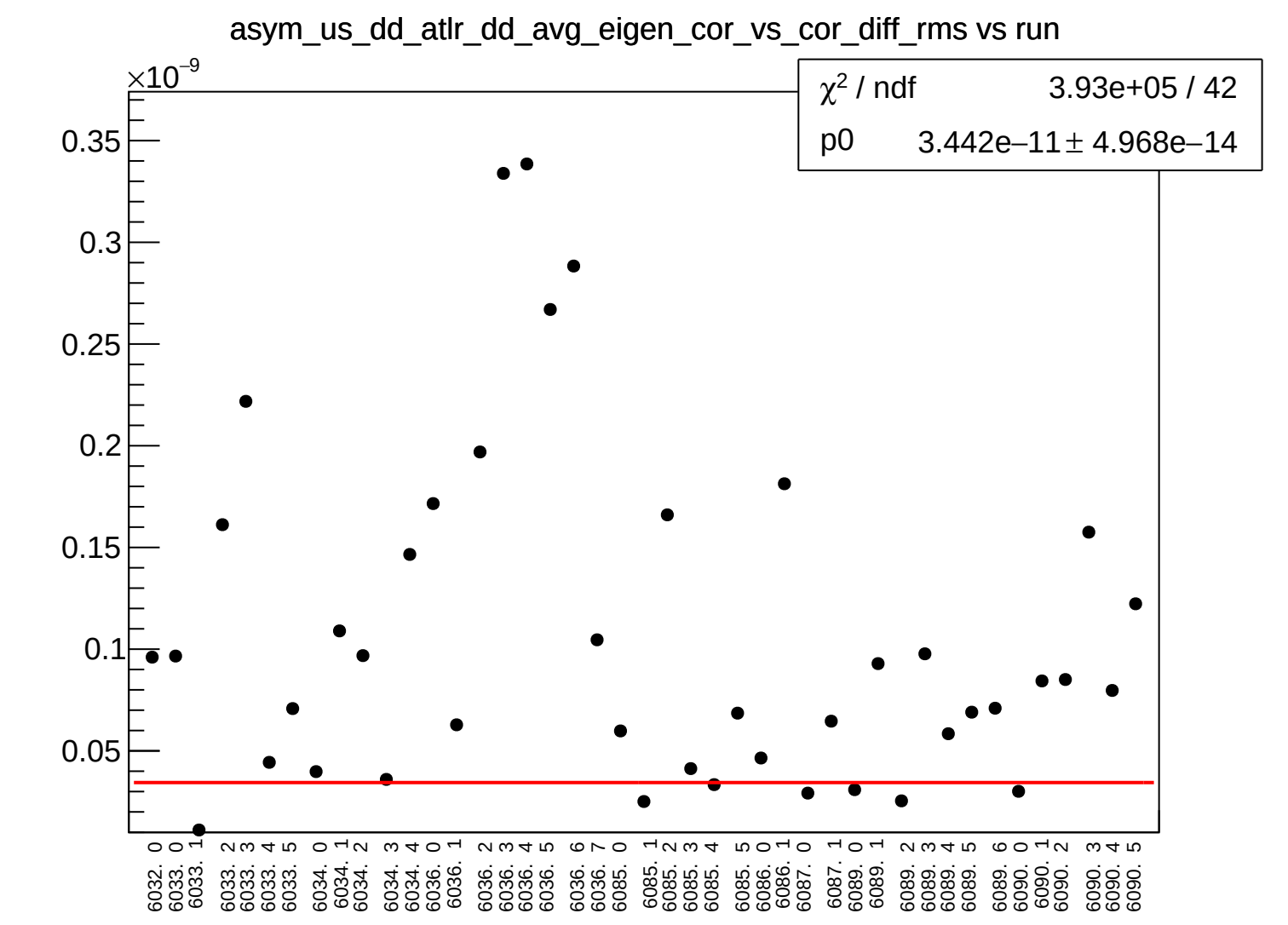

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.154e+04 / 42
p0 78.72 ± 0.08633
140
130
120
110
100
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

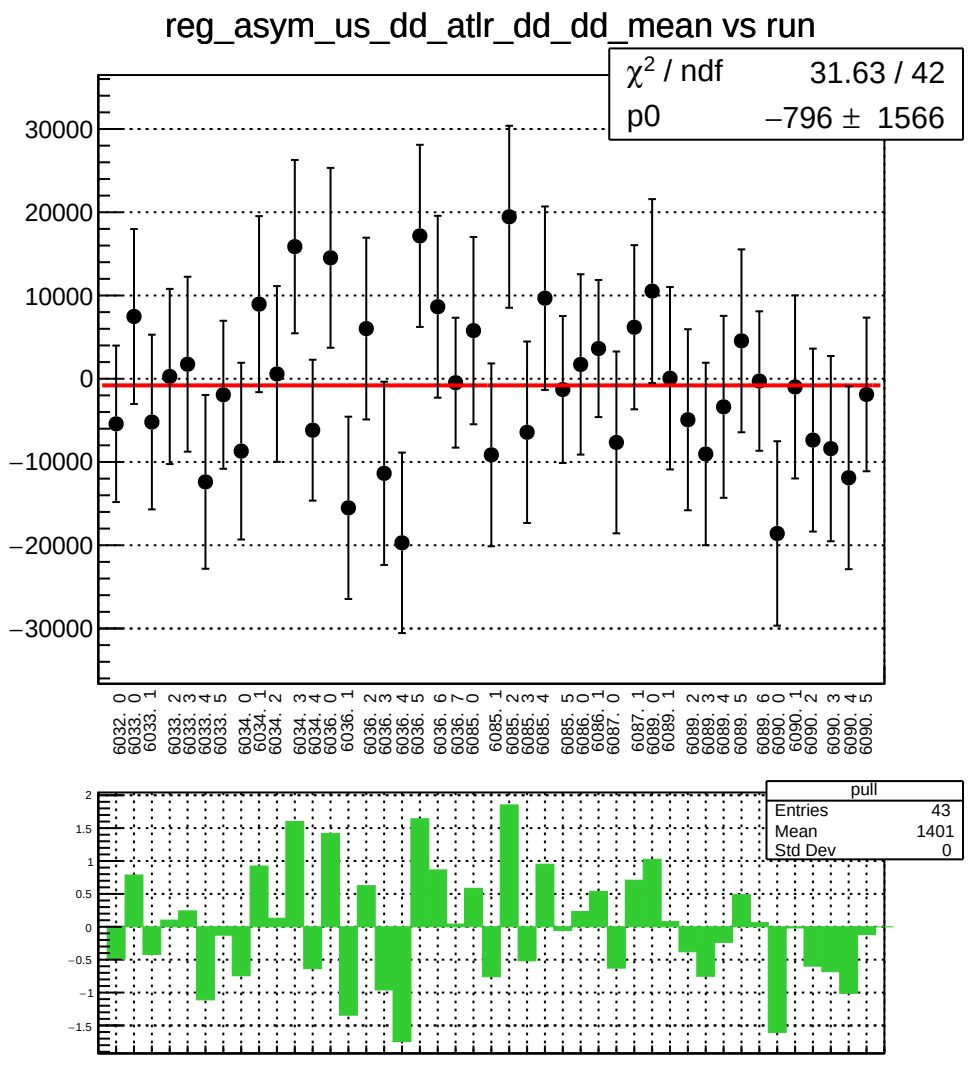

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 0.1282 ± 0.1221
pull
Entries 43
Mean −3.053
Std Dev 0

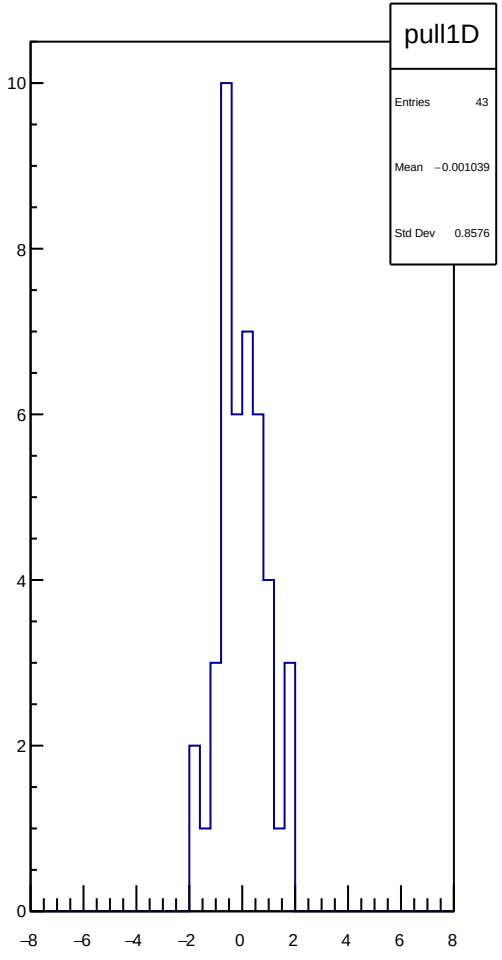

pull1D
Entries 43
Mean 0.04764
Std Dev 1.008

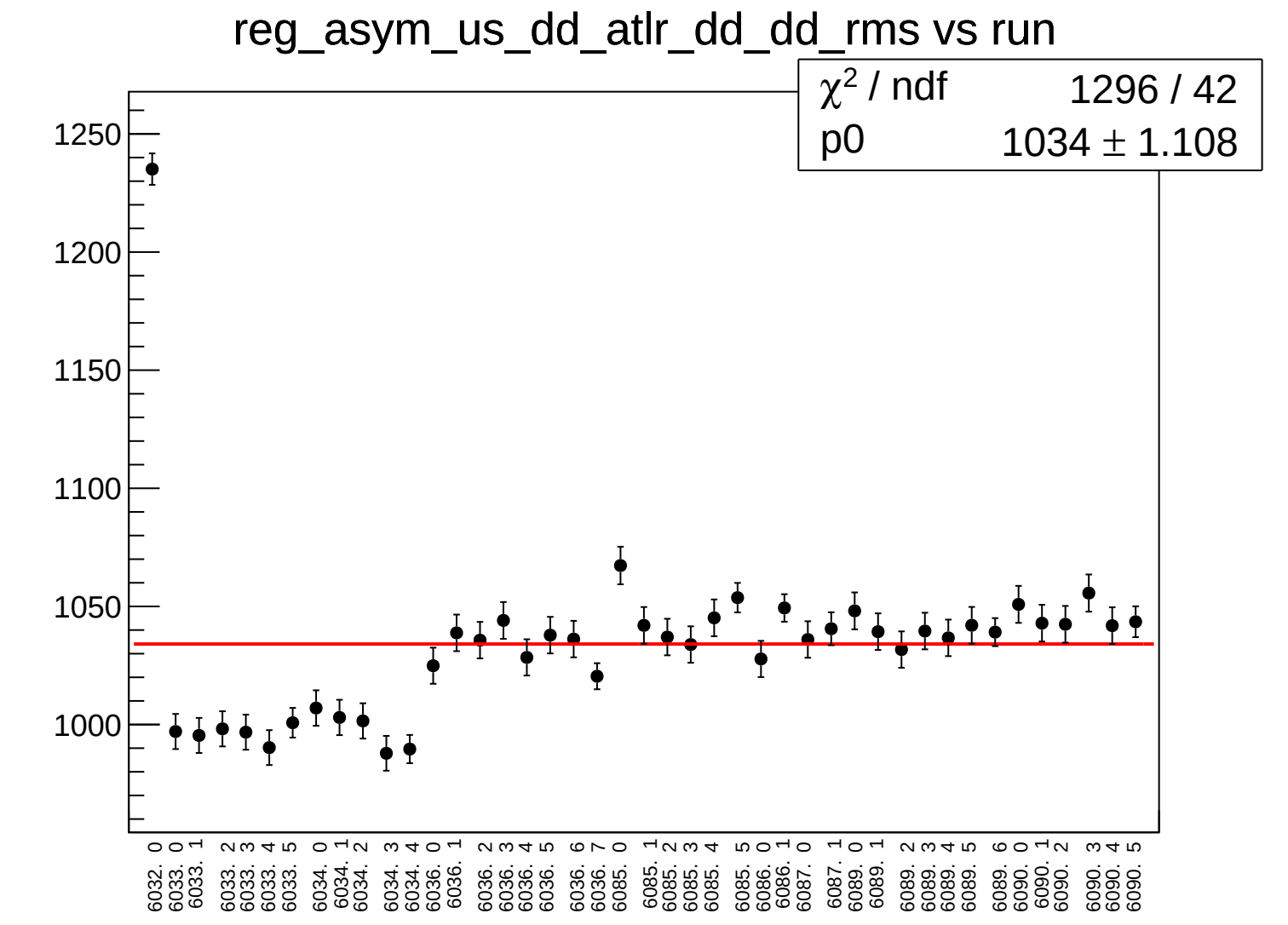

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.154e+04 / 42
p0 78.72 ± 0.08633
140
130
120
110
100
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

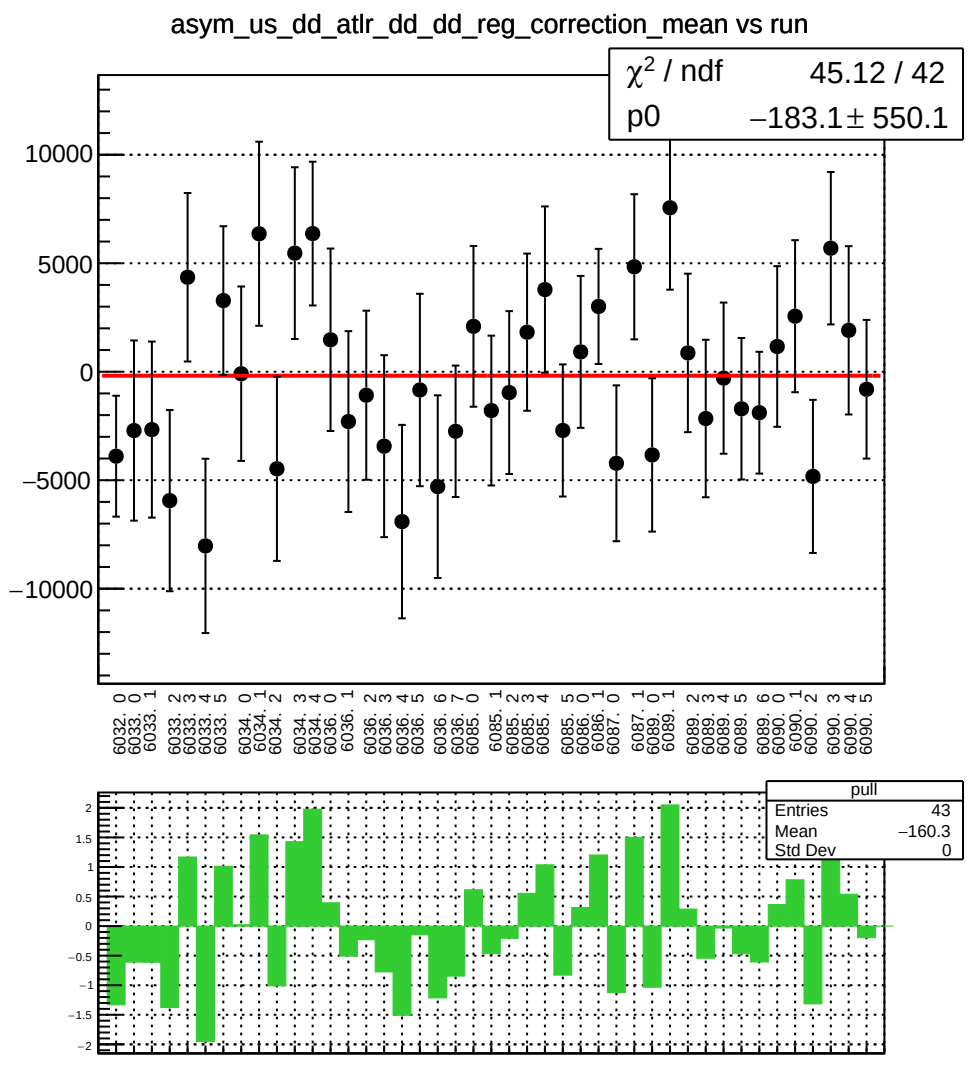

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.76 / 42
p0 1.154e−13 ± 7.026e−14
8
6
4
2
0
−2
−4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 119.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03279
Std Dev 0.8452
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

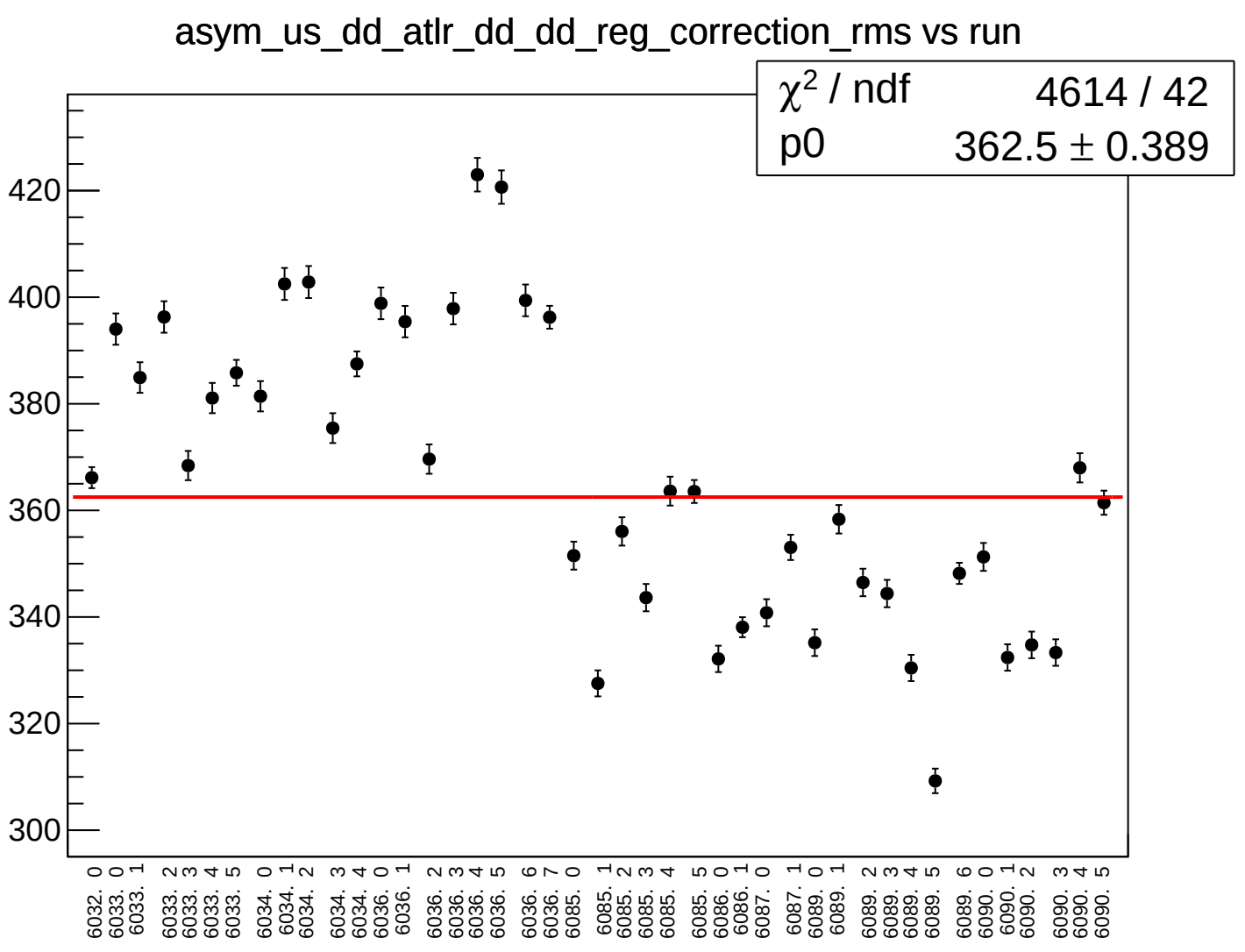

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.93e+05 / 42
p0 3.442e−11 ± 4.968e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

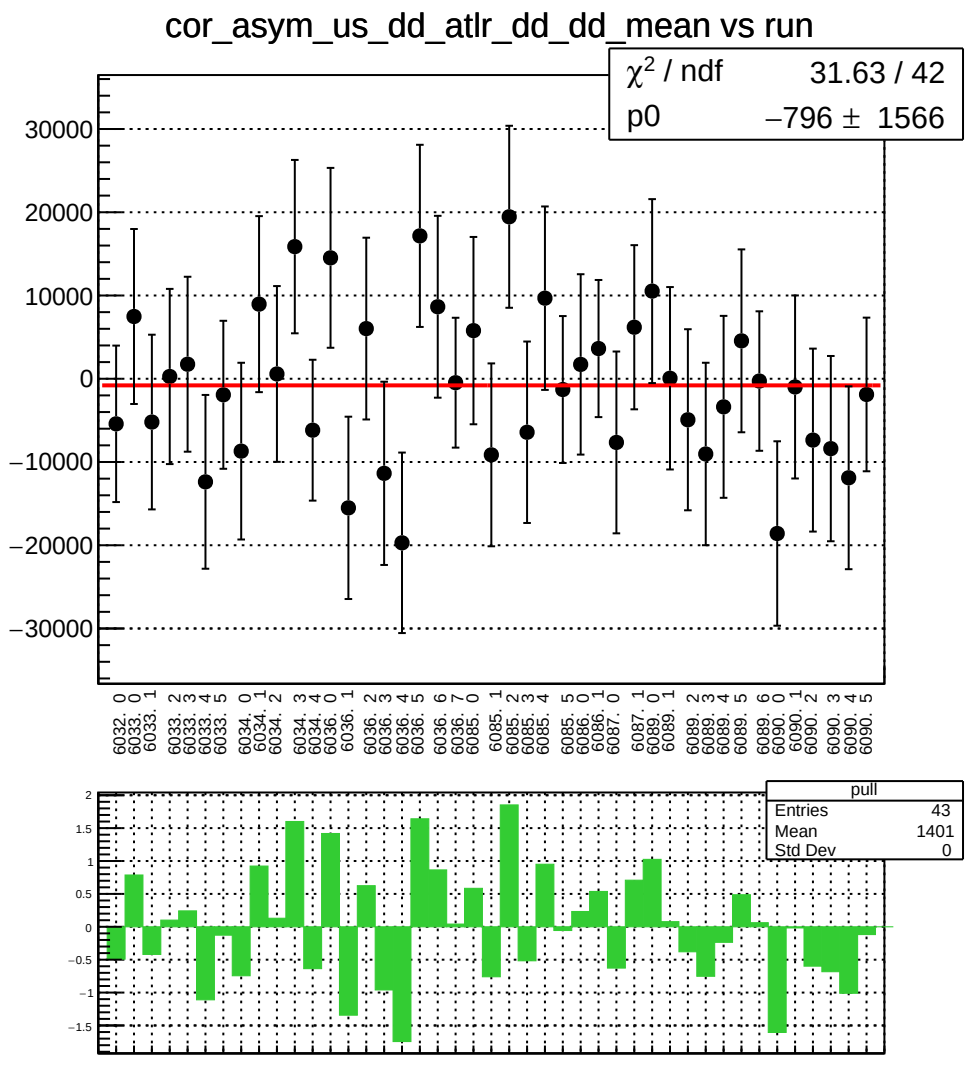

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 31.63 / 42
p0 −796 ± 1566
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1401
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

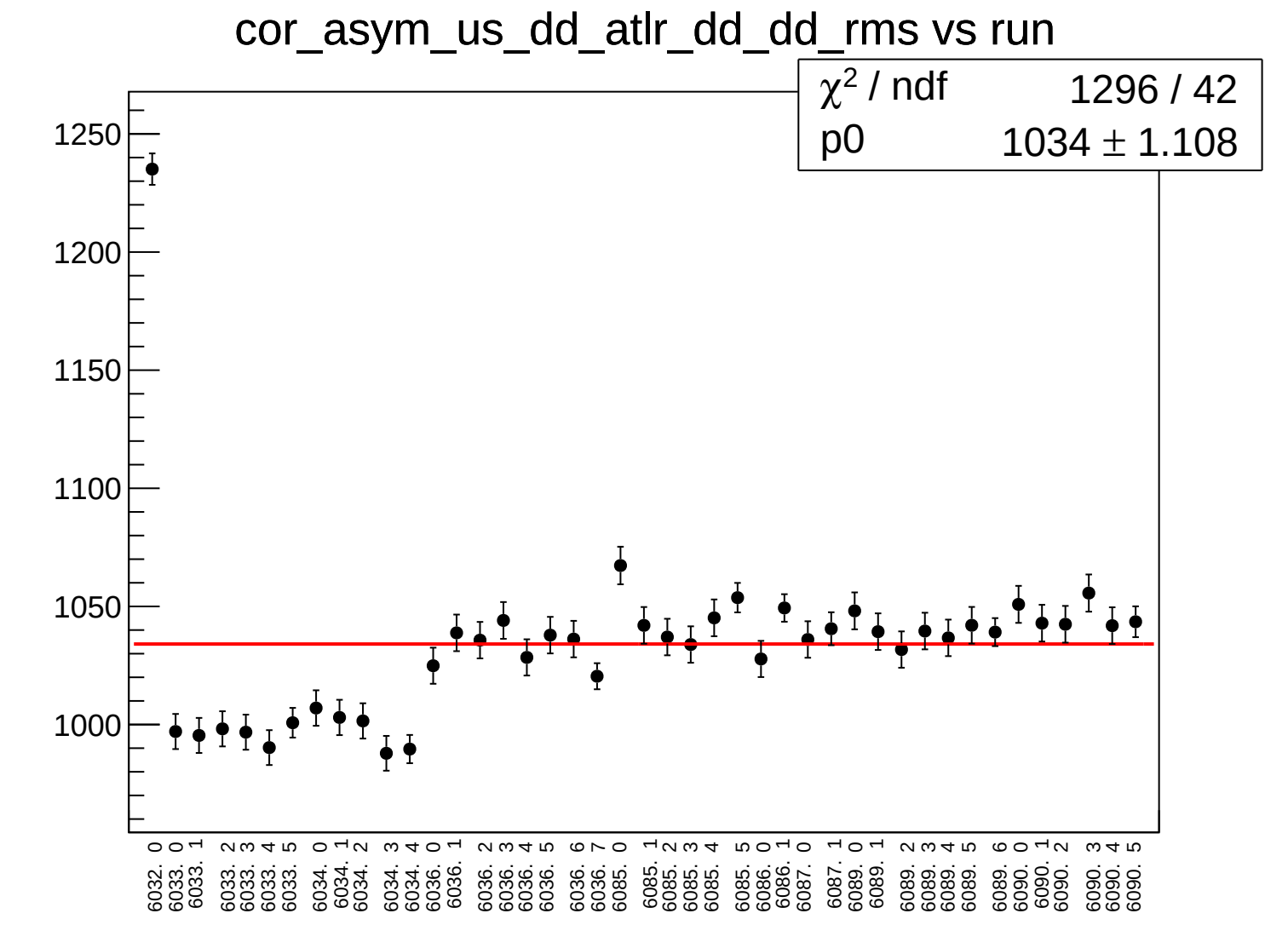

pull1D
Entries 43
Mean −0.001039
Std Dev 0.8576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

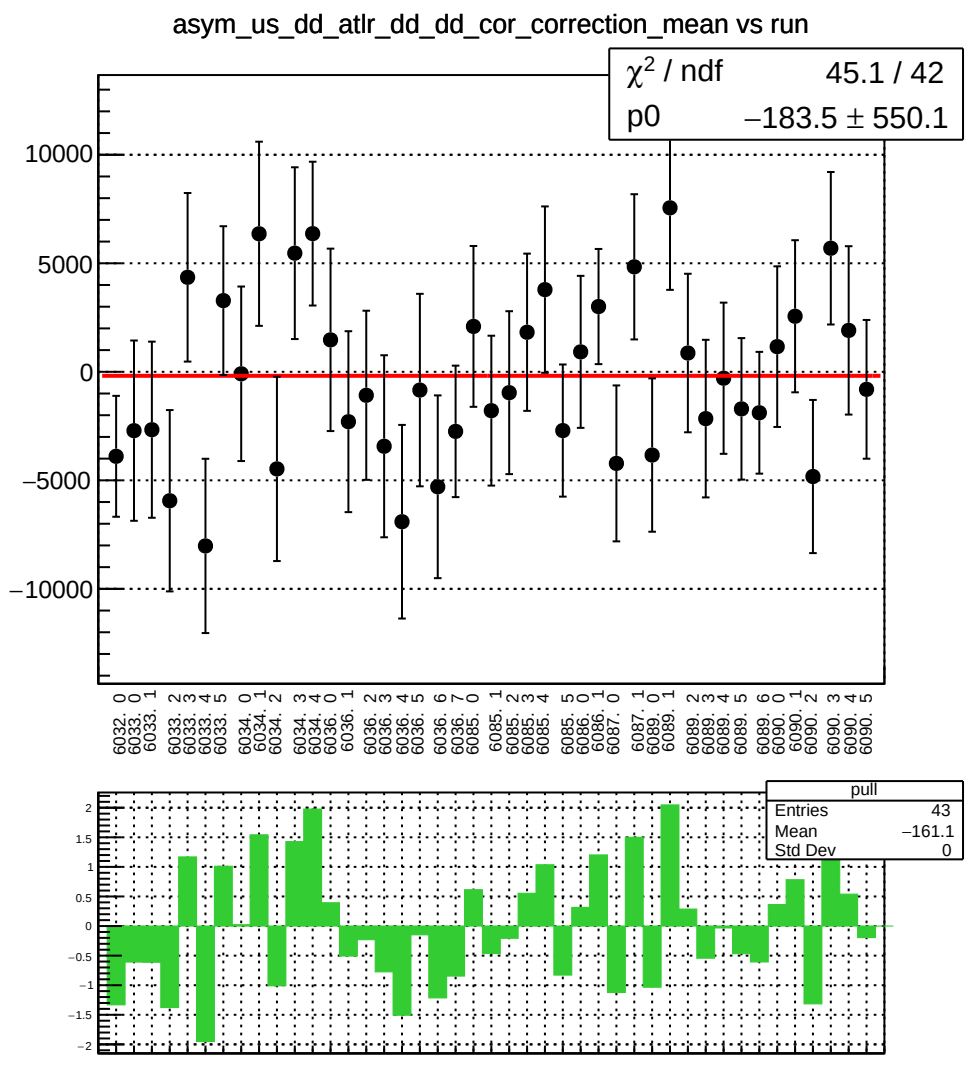

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1296 / 42
p0 1034 ± 1.108
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

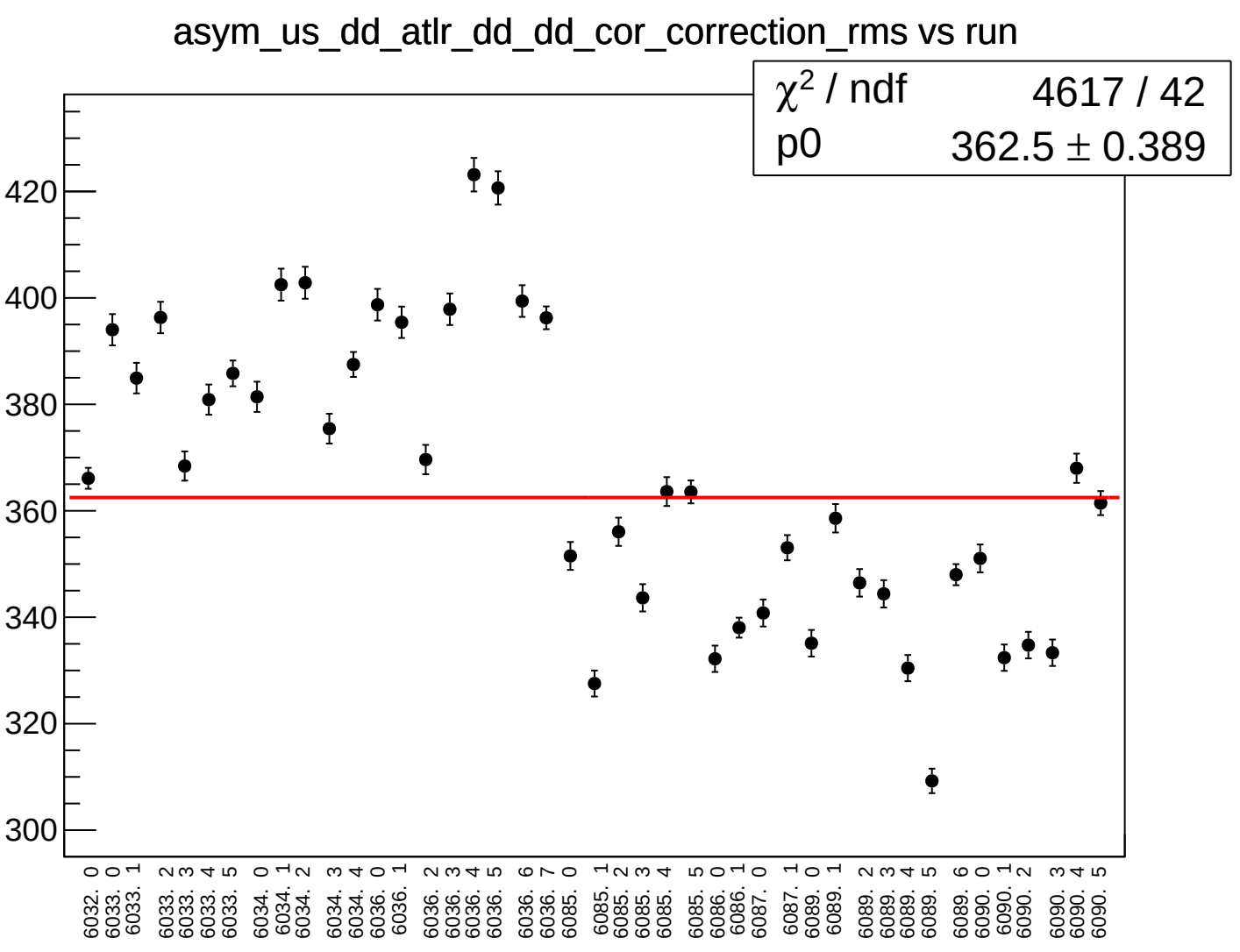

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 45.12 / 42
p0 −183.1 ± 550.1
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −160.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01125
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

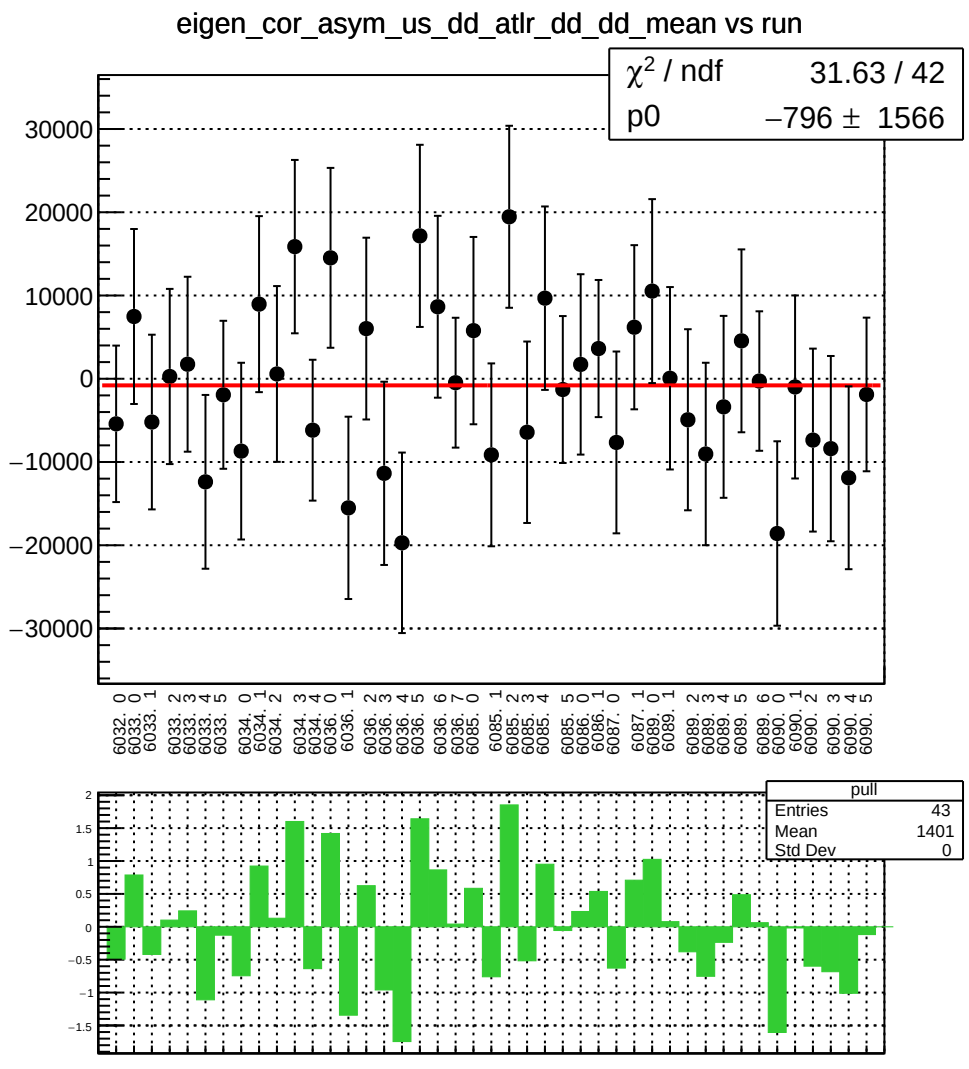

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 4614 / 42
p0 362.5 ± 0.389
420
400
380
360
340
320
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

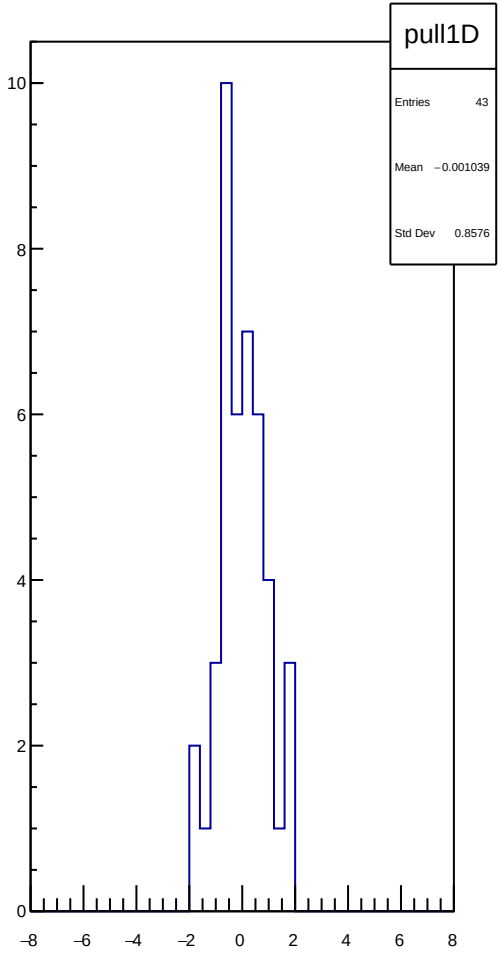

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 31.63 / 42
p0 −796 ± 1566
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1401
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.001039
Std Dev 0.8576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

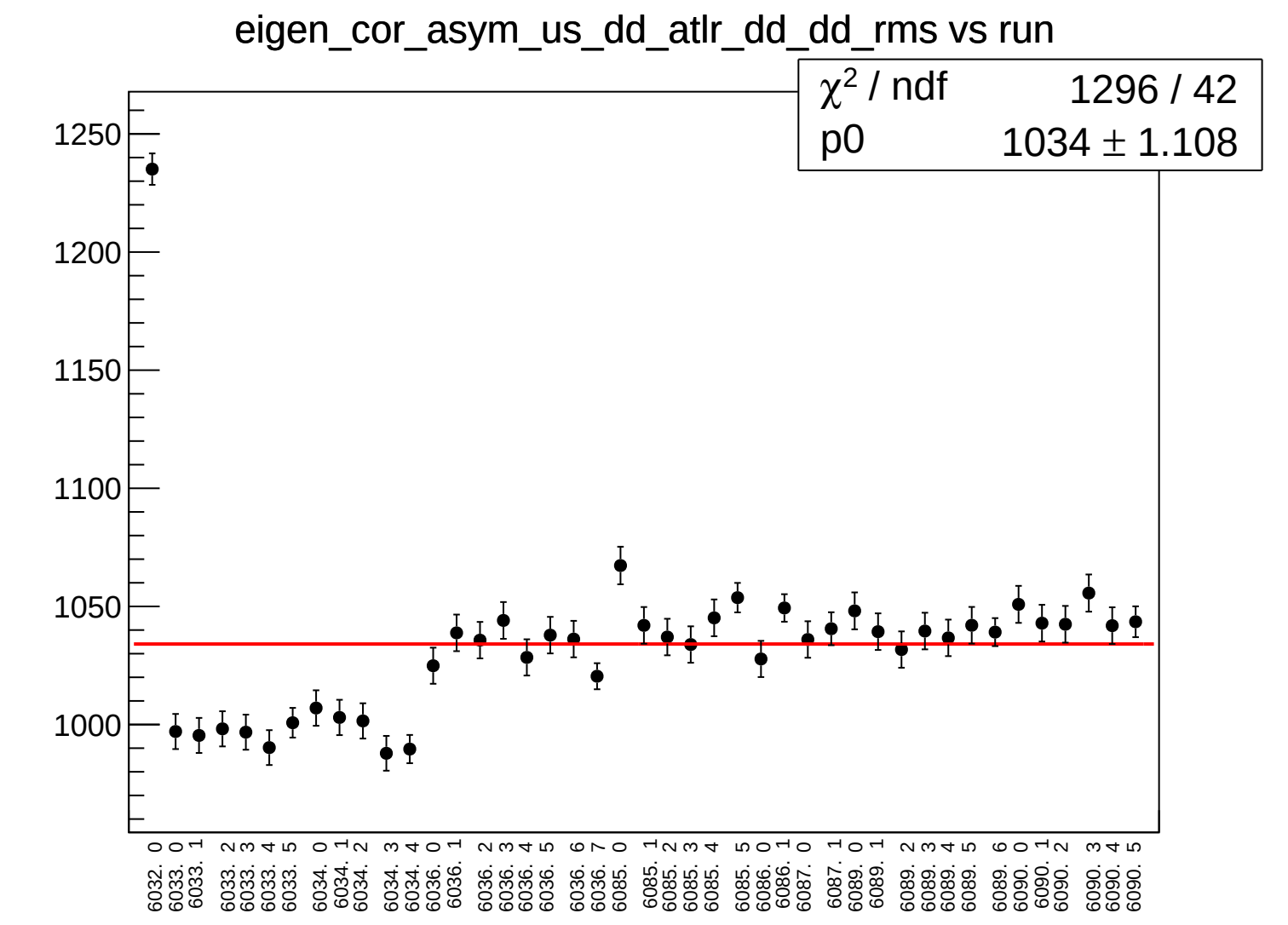

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1296 / 42
p0 1034 ± 1.108
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

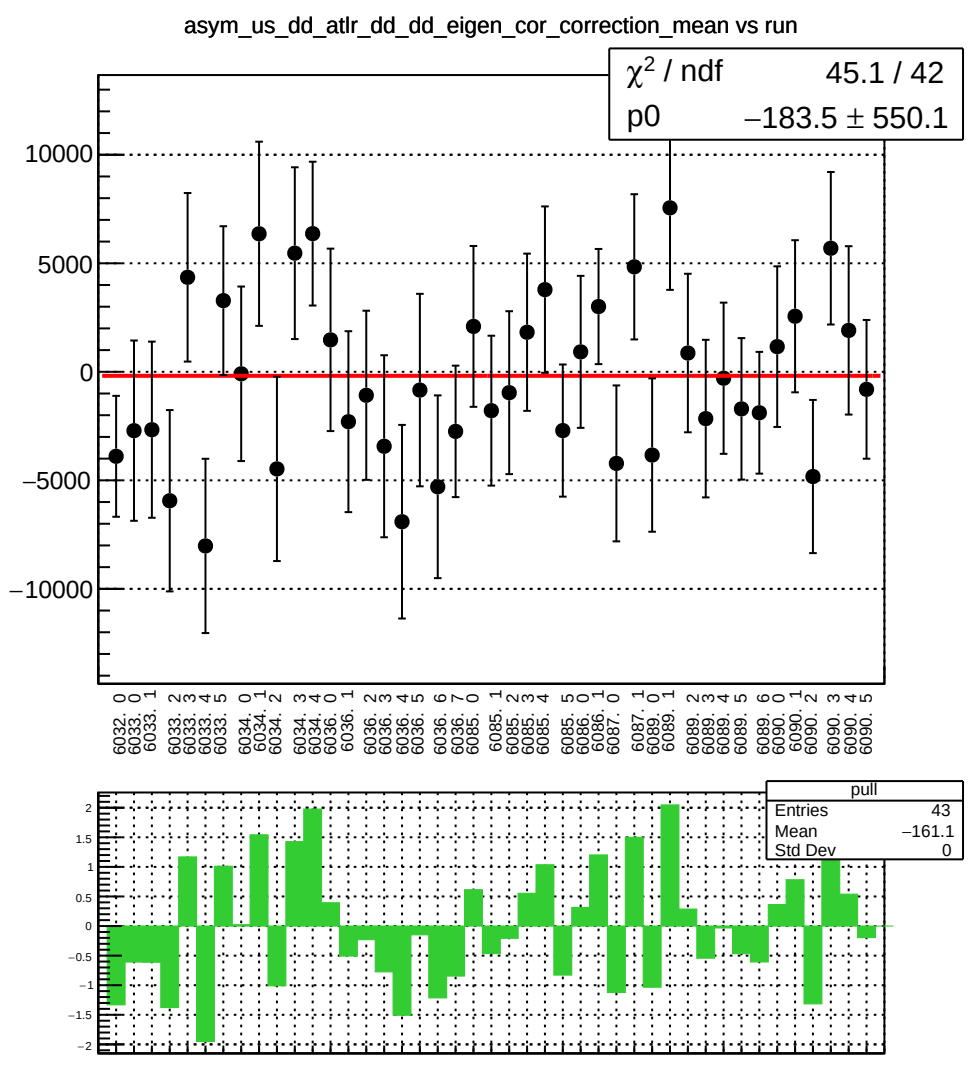

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 45.1 / 42
p0 −183.5 ± 550.1
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −161.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0112
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

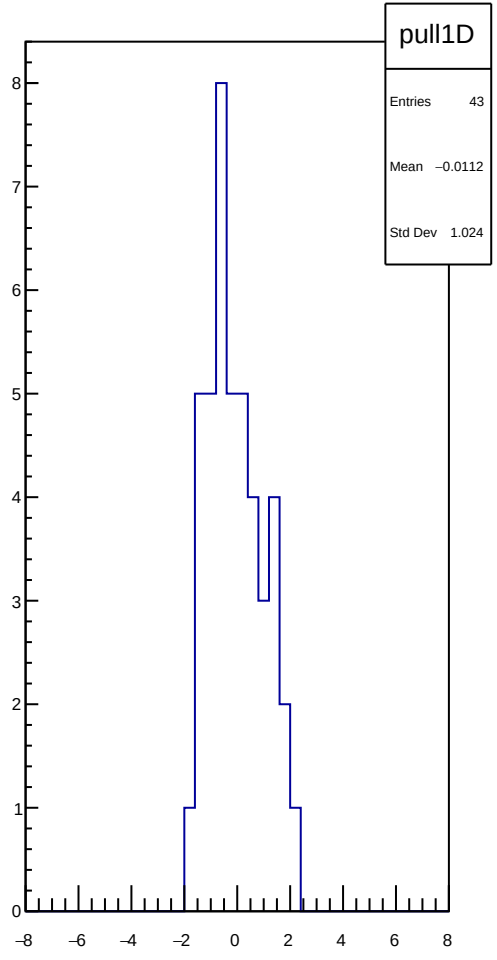

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4617 / 42
p0 362.5 ± 0.389
420
400
380
360
340
320
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

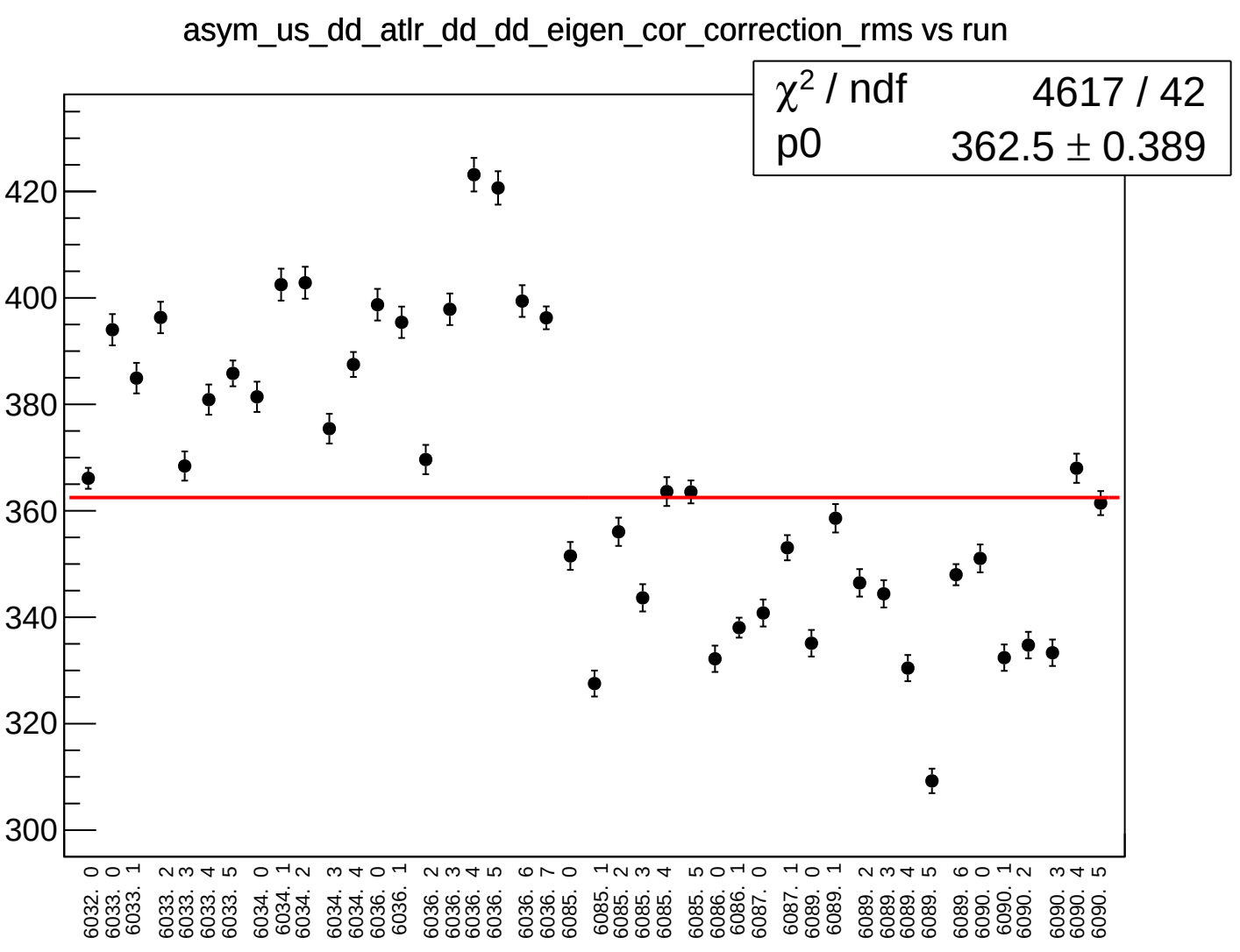

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 31.63 / 42
p0 −796 ± 1566
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1401
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

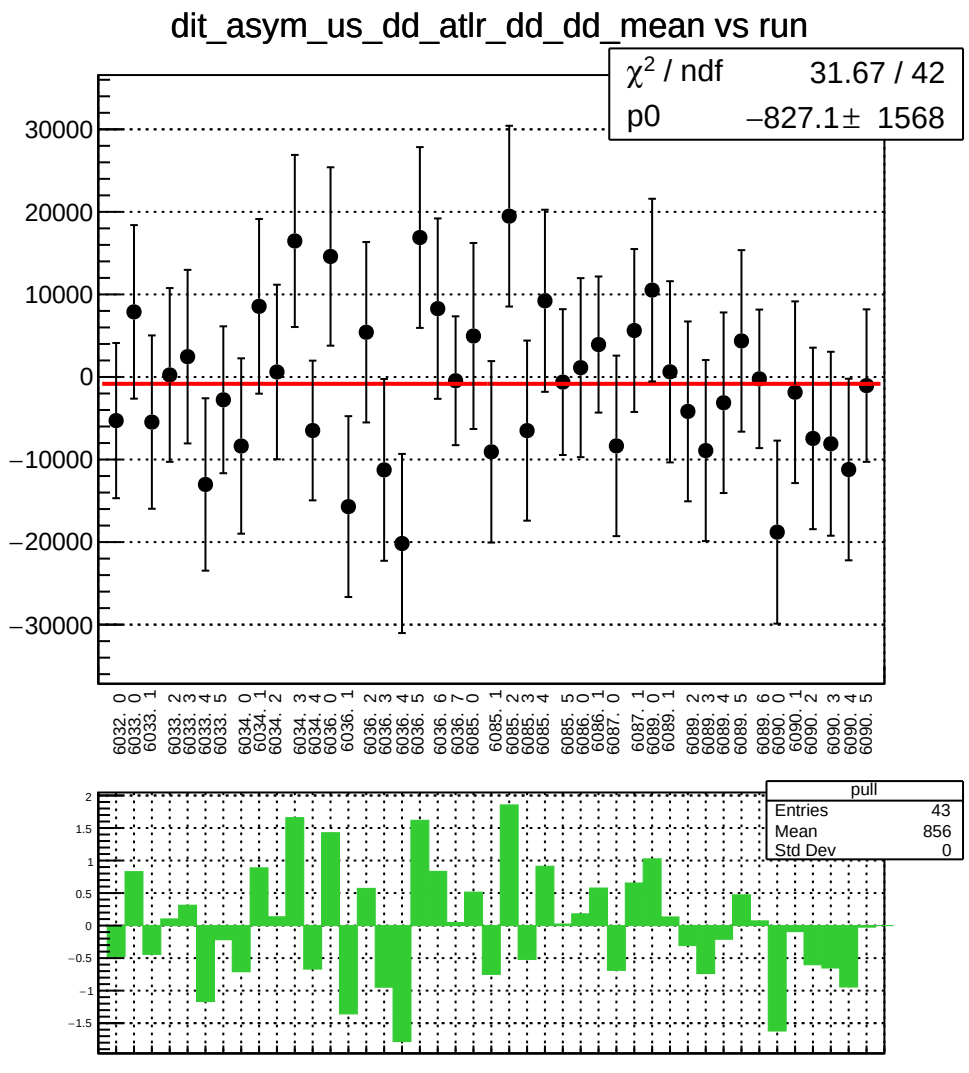

pull1D
Entries 43
Mean −0.001039
Std Dev 0.8576
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

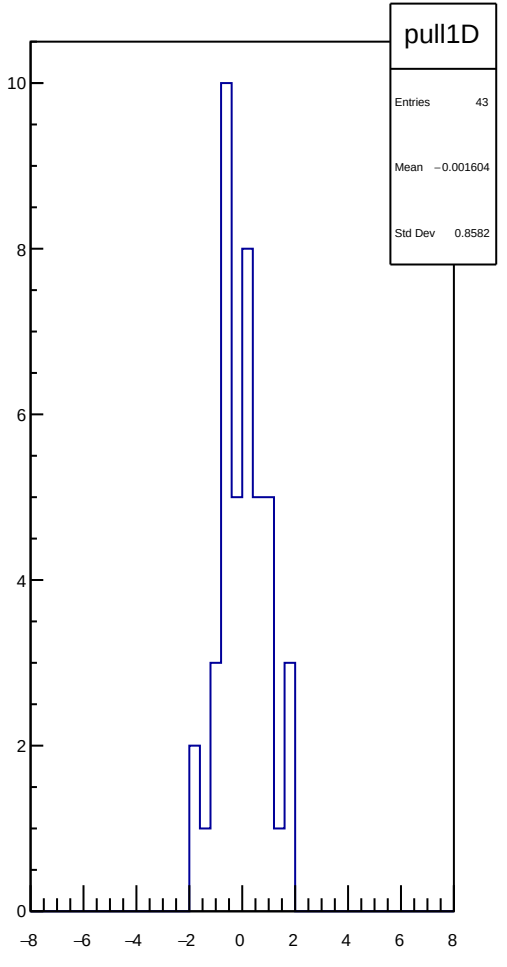

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1296 / 42
p0 1034 ± 1.108
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

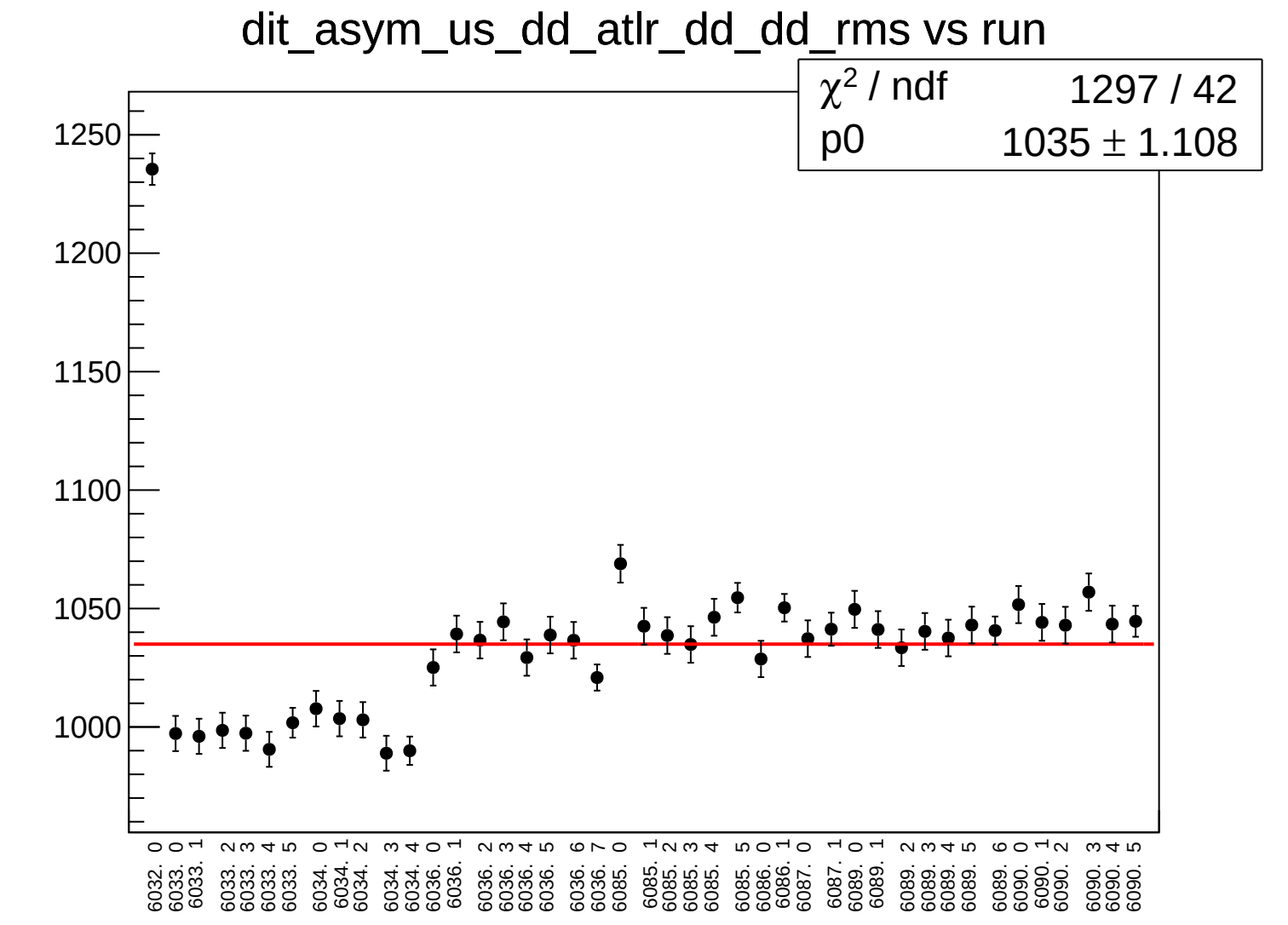

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.1 / 42
p0 −183.5 ± 550.1
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −161.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

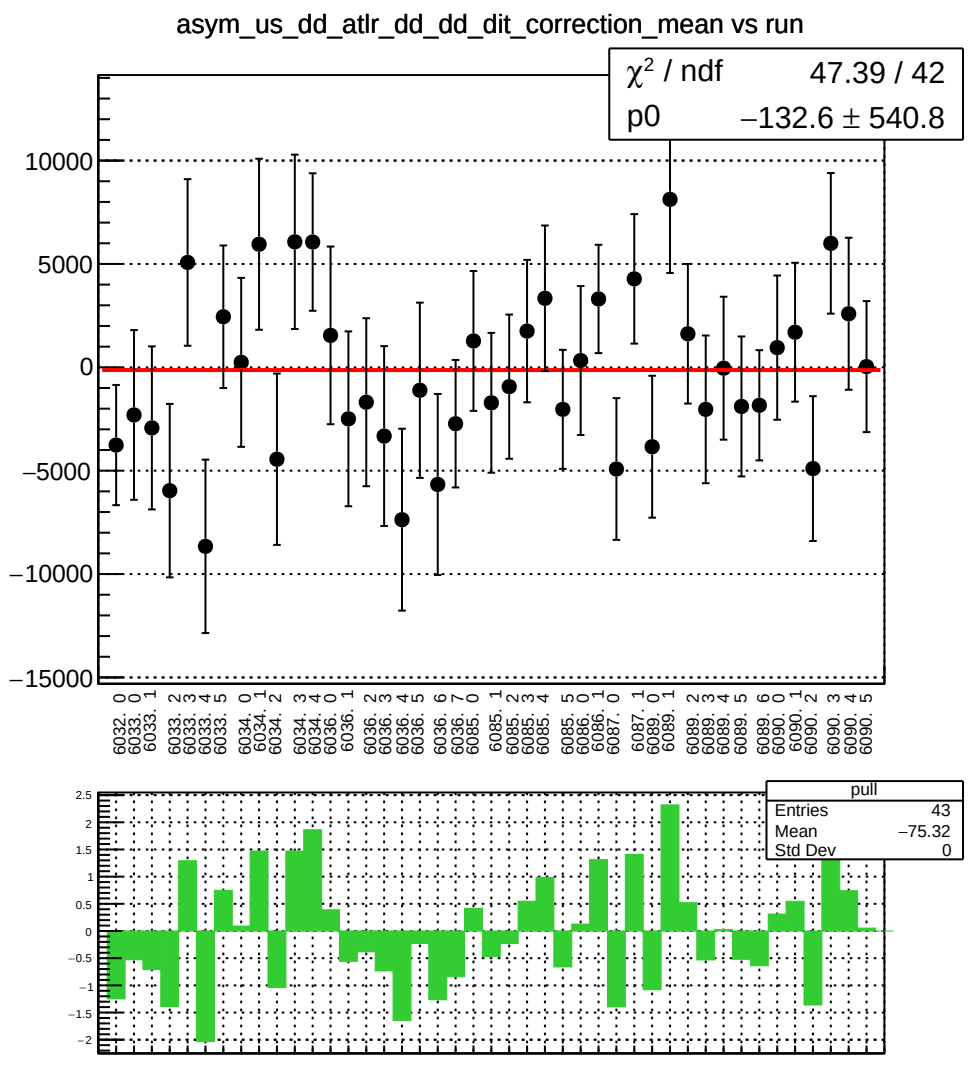

pull1D
Entries 43
Mean −0.0112
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

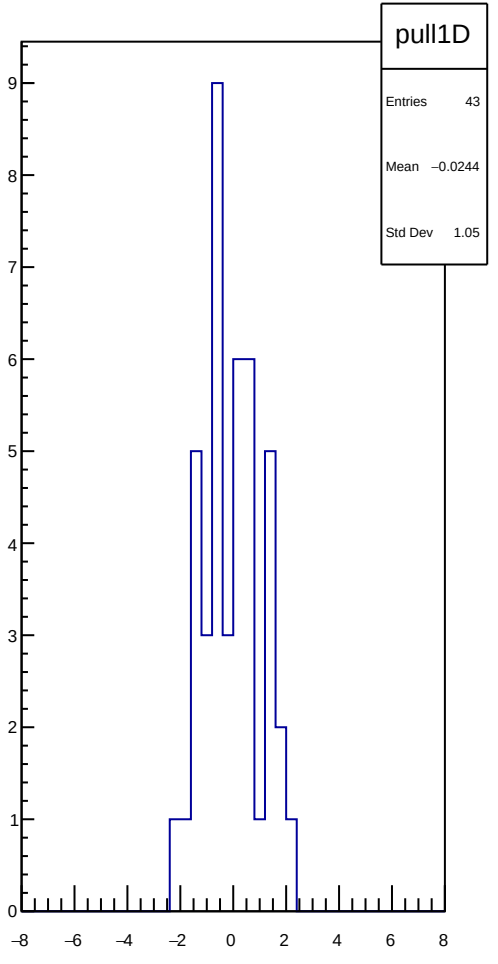

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4617 / 42
p0 362.5 ± 0.389
420
400
380
360
340
320
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

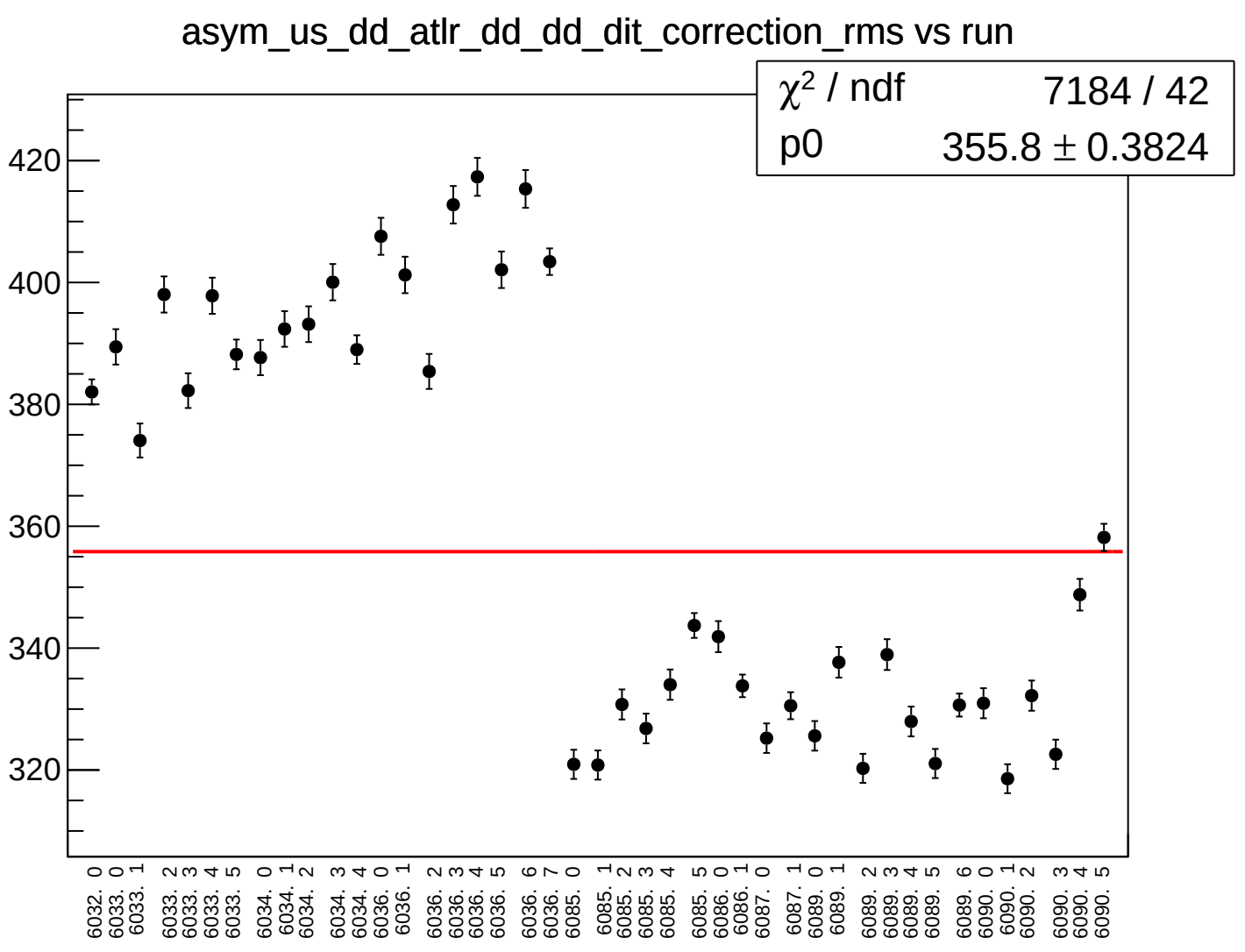

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 31.67 / 42
p0 −827.1± 1568
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 856
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

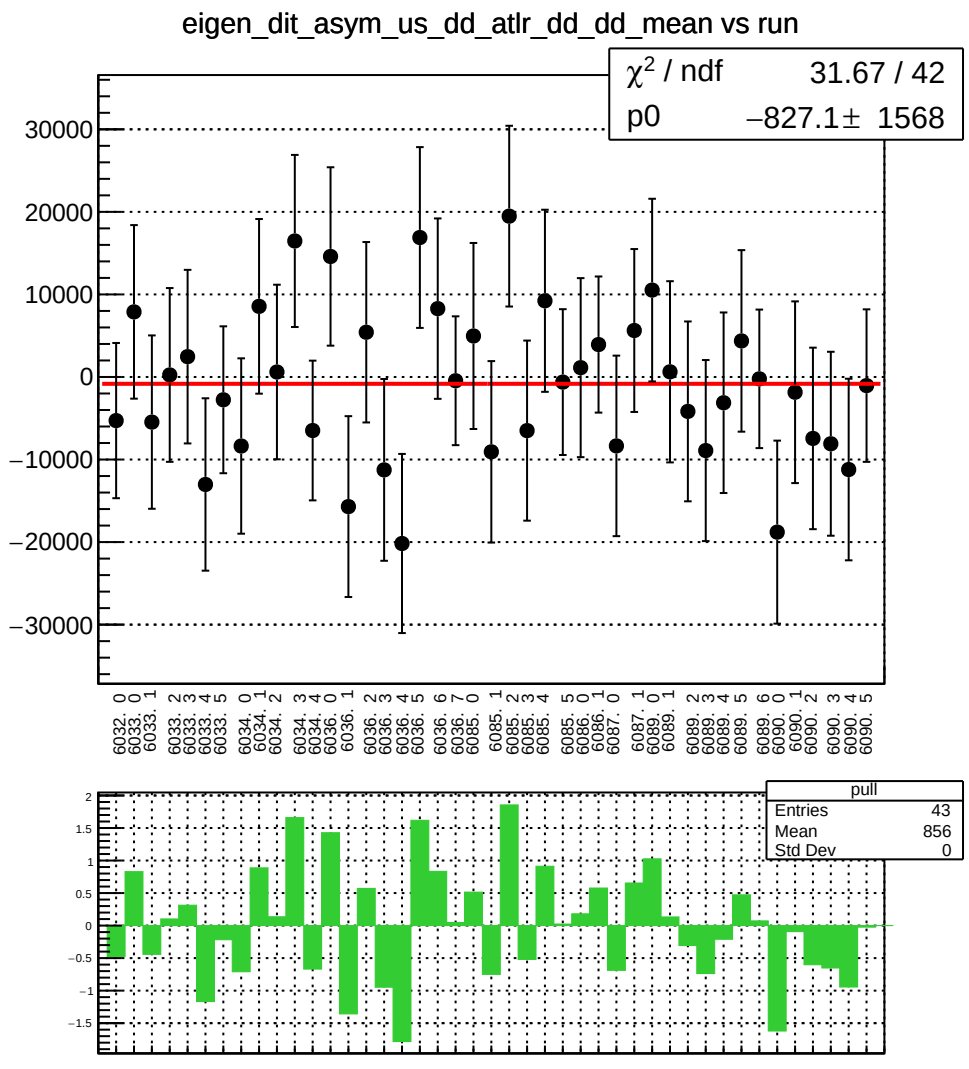

pull1D
Entries 43
Mean −0.001604
Std Dev 0.8582
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

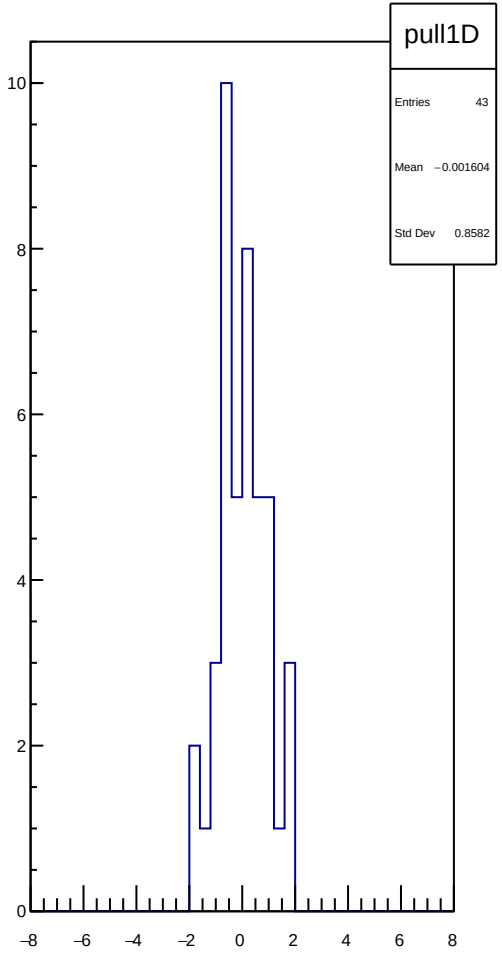

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1297 / 42
p0 1035 ± 1.108
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

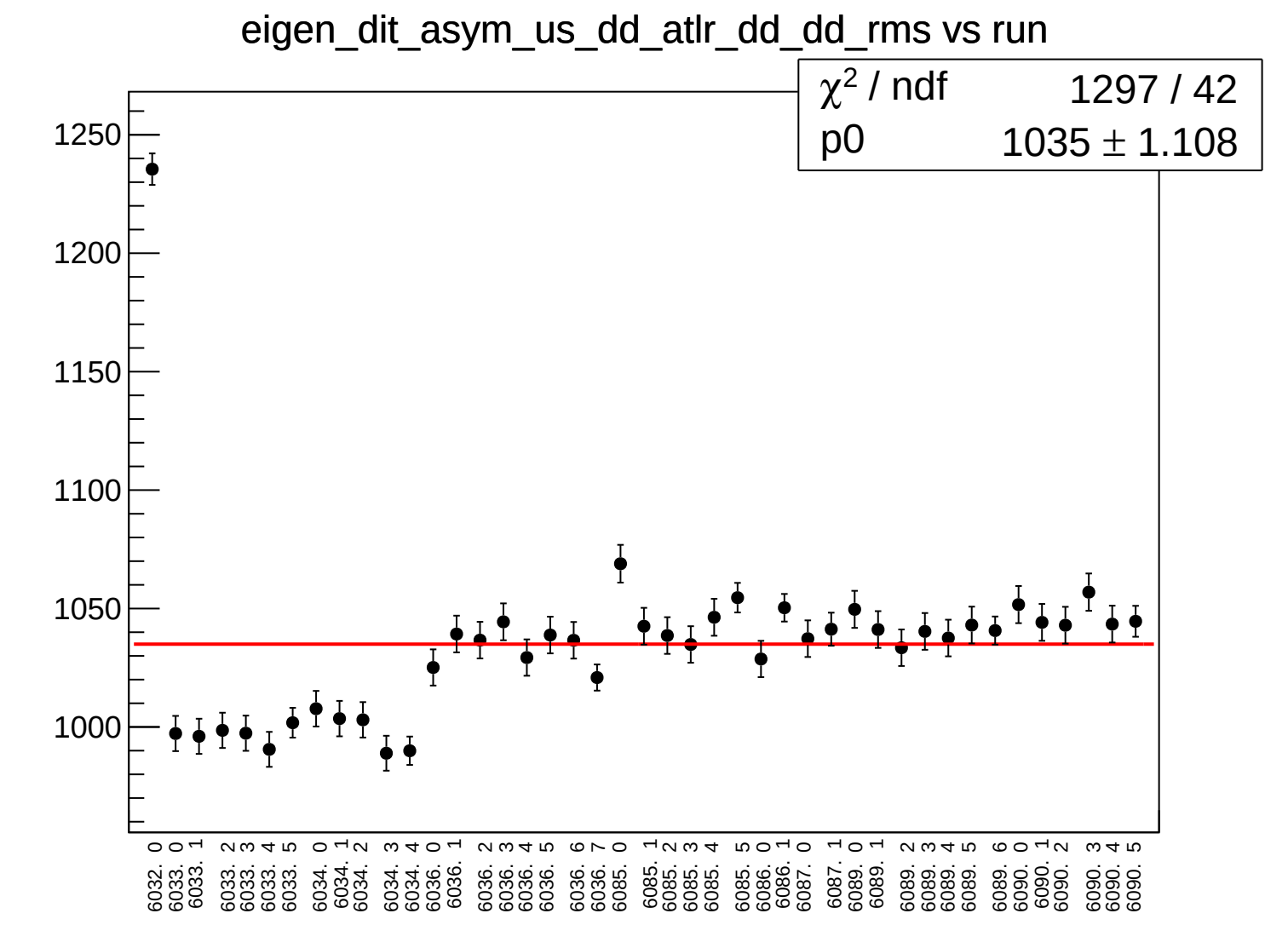

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 47.39 / 42
p0 −132.6 ± 540.8
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −75.32
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

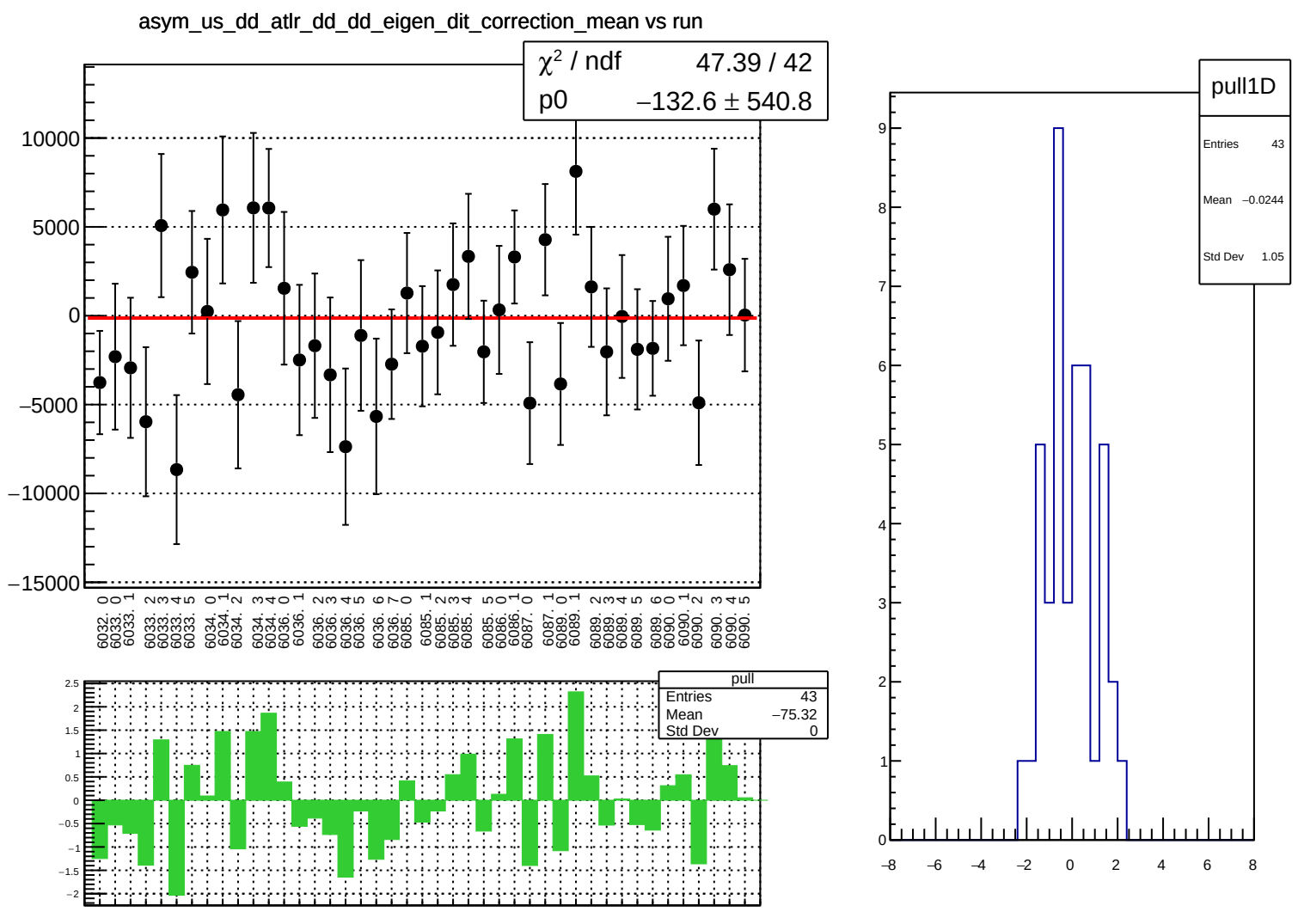

pull1D
Entries 43
Mean −0.0244
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

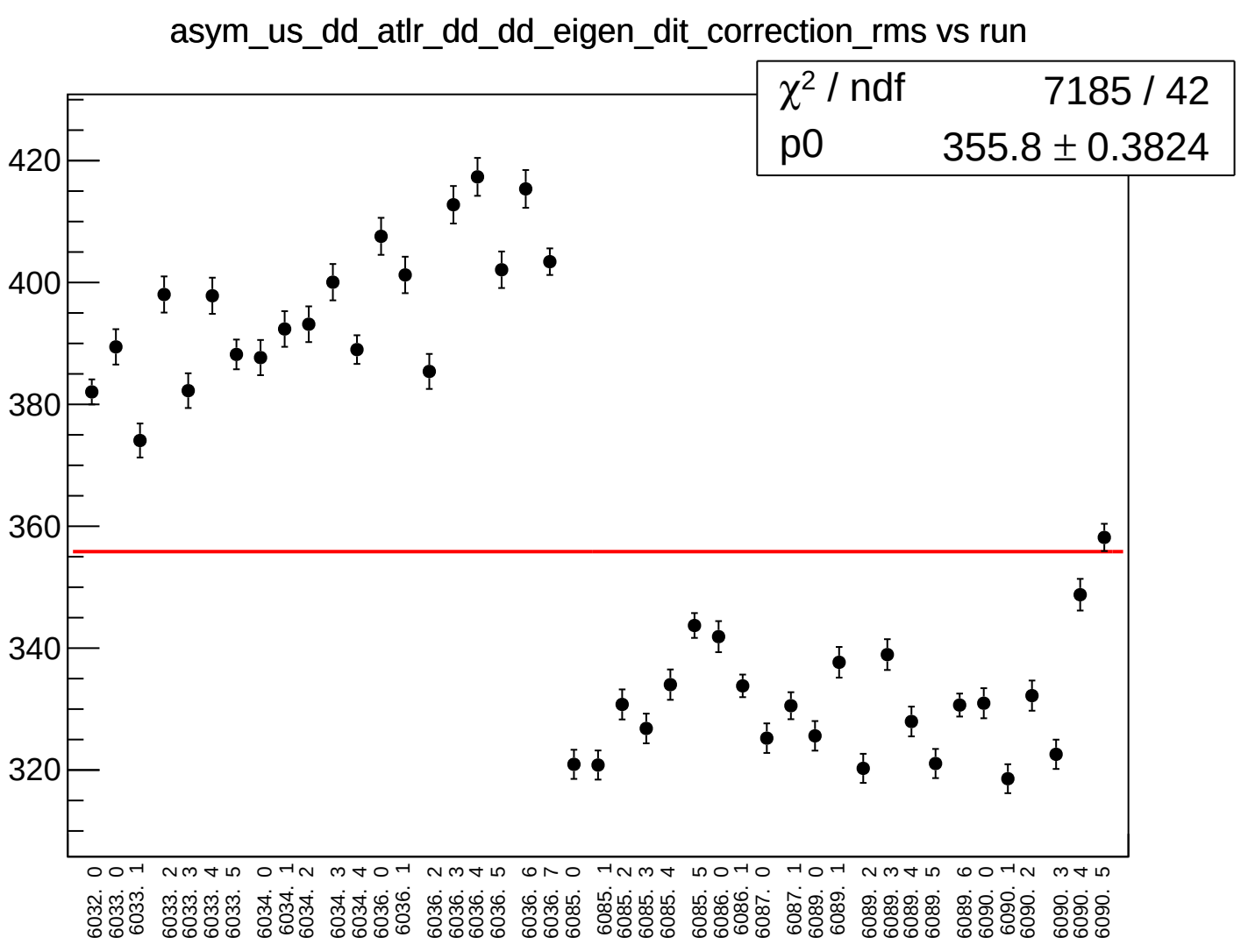

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 7184 / 42
p0 355.8 ± 0.3824
420
400
380
360
340
320
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

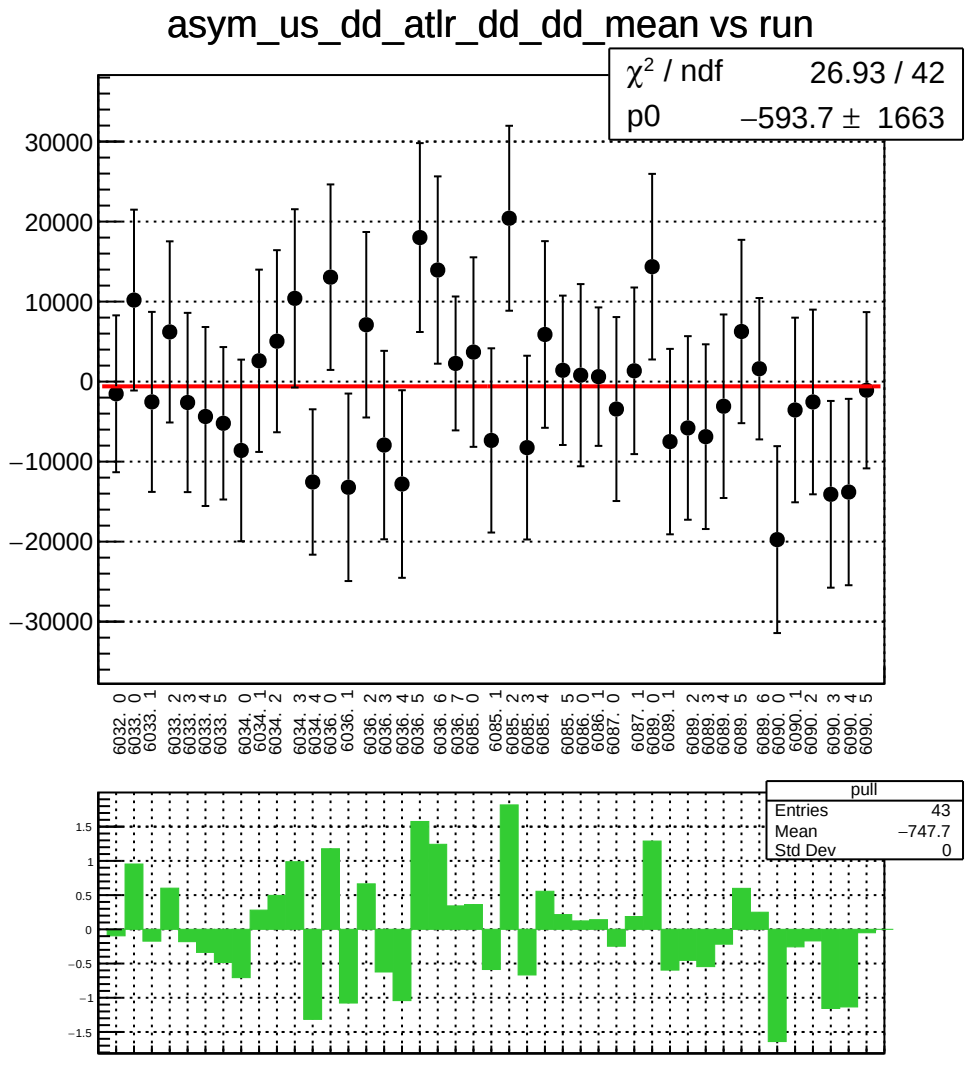

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 31.67 / 42
p0 −827.1± 1568
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 856
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

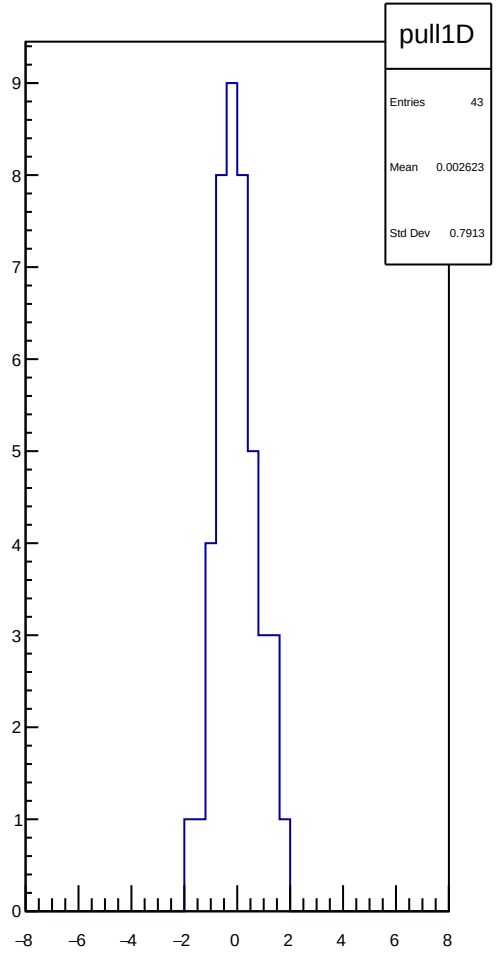

pull1D
Entries 43
Mean −0.001604
Std Dev 0.8582
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

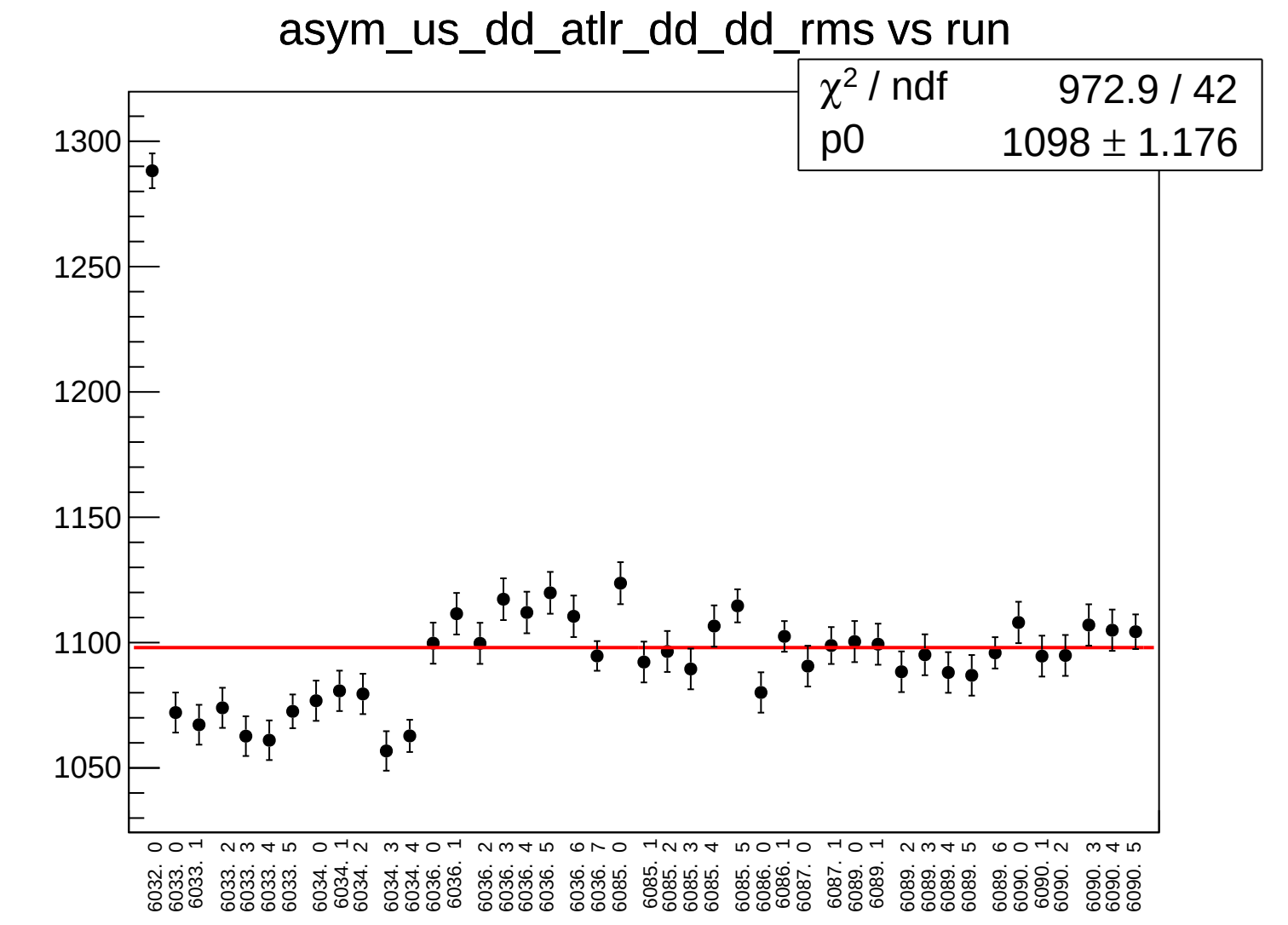

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1297 / 42
p0 1035 ± 1.108
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

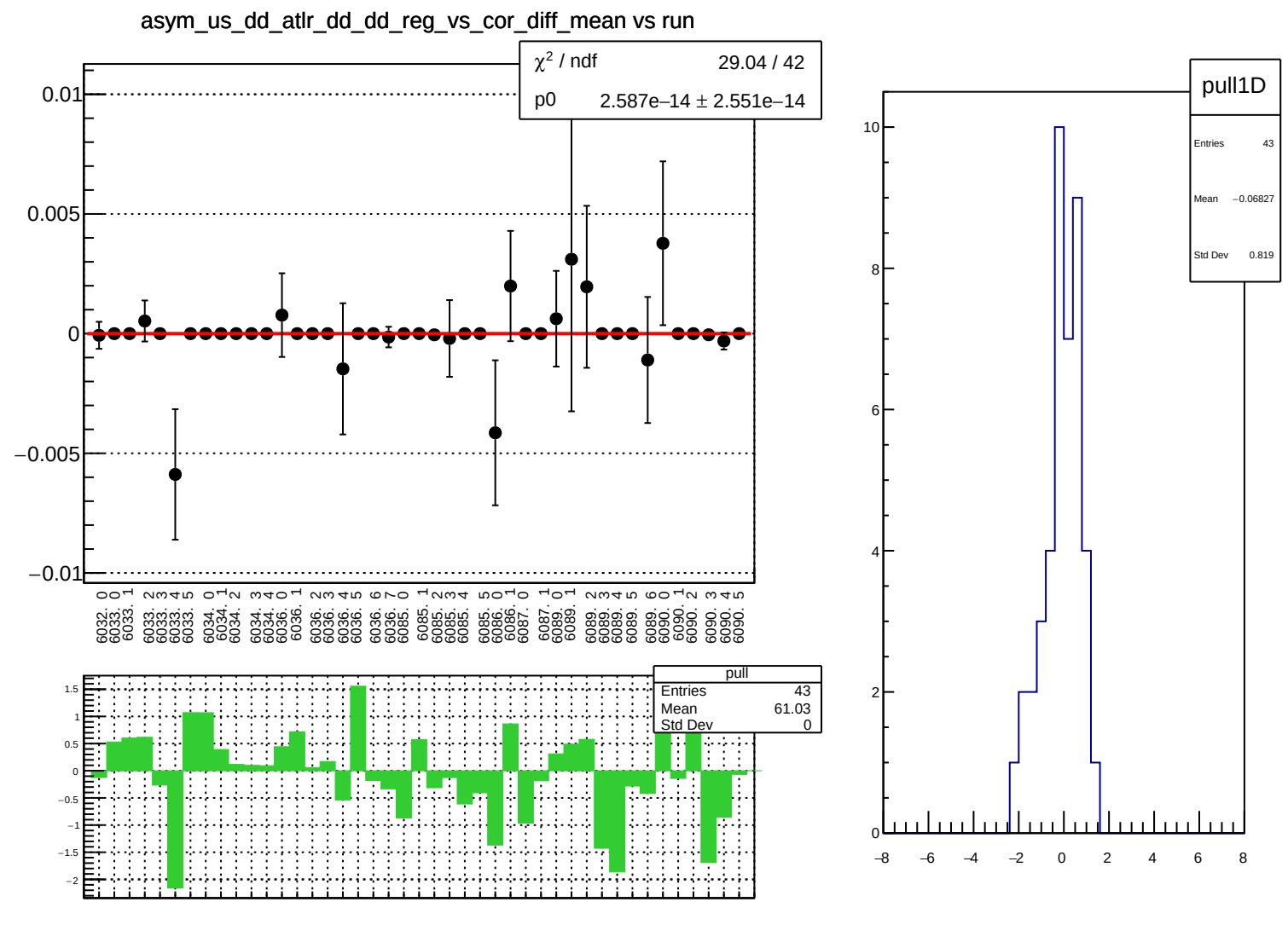

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.39 / 42
p0 −132.6 ± 540.8
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −75.32
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0244
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

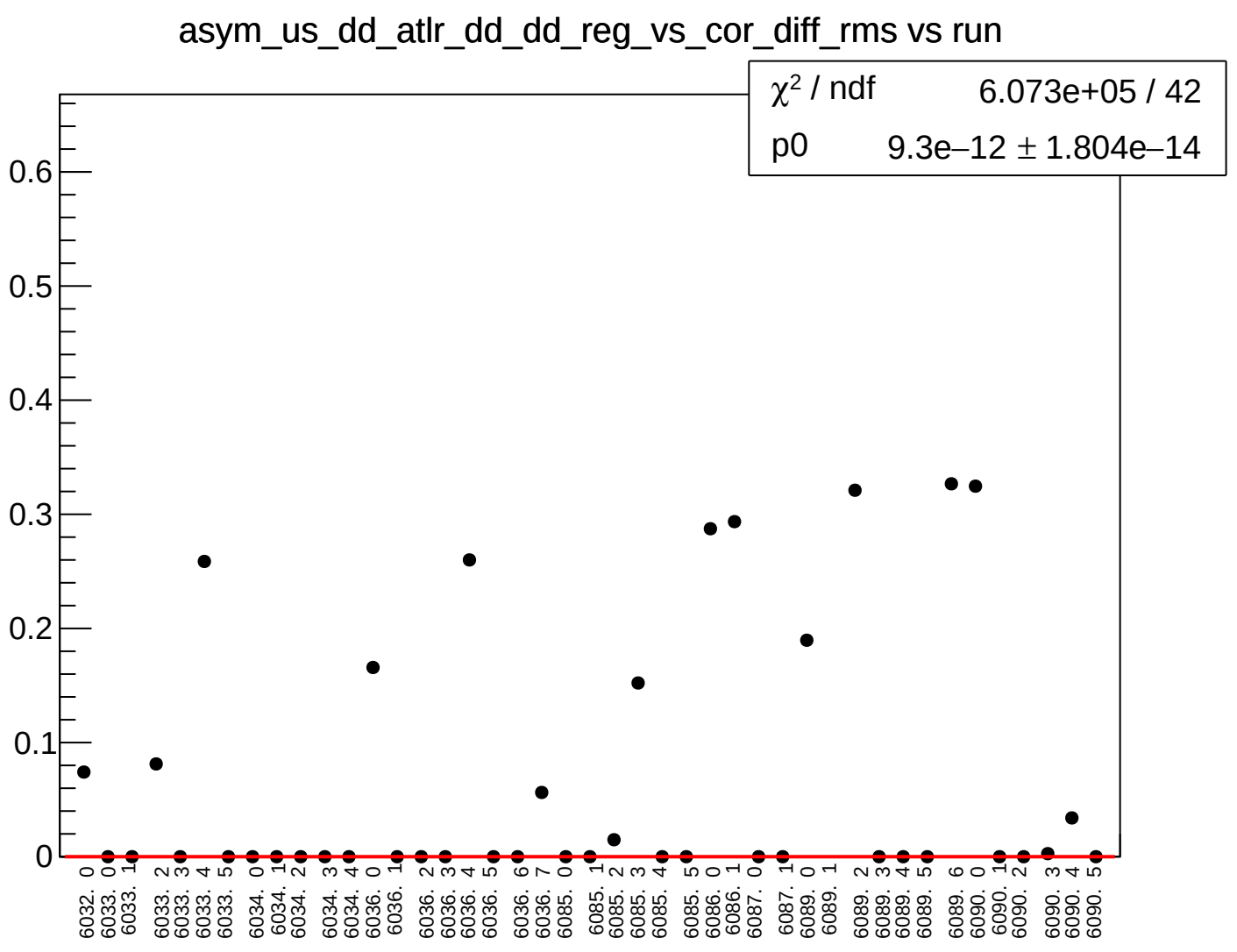

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7185 / 42
p0 355.8 ± 0.3824
420
400
380
360
340
320
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

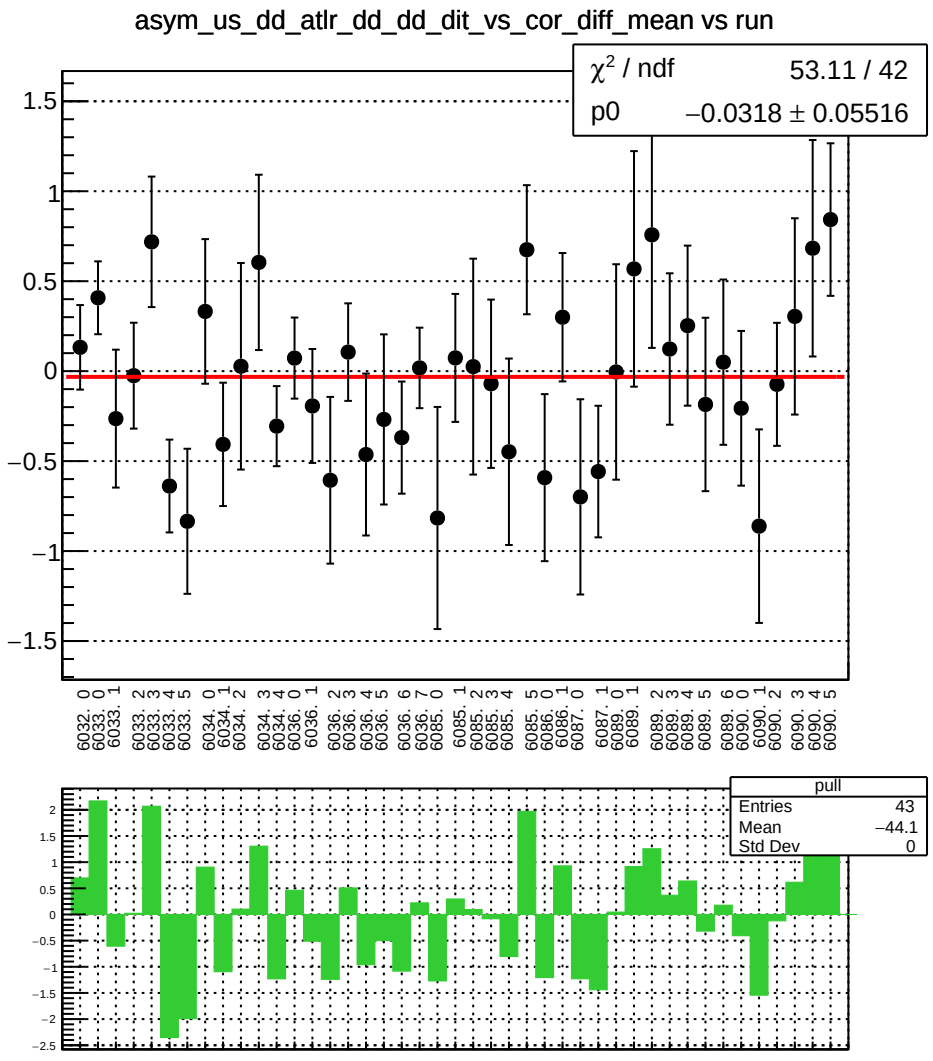

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 26.93 / 42
p0 −593.7 ± 1663
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −747.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

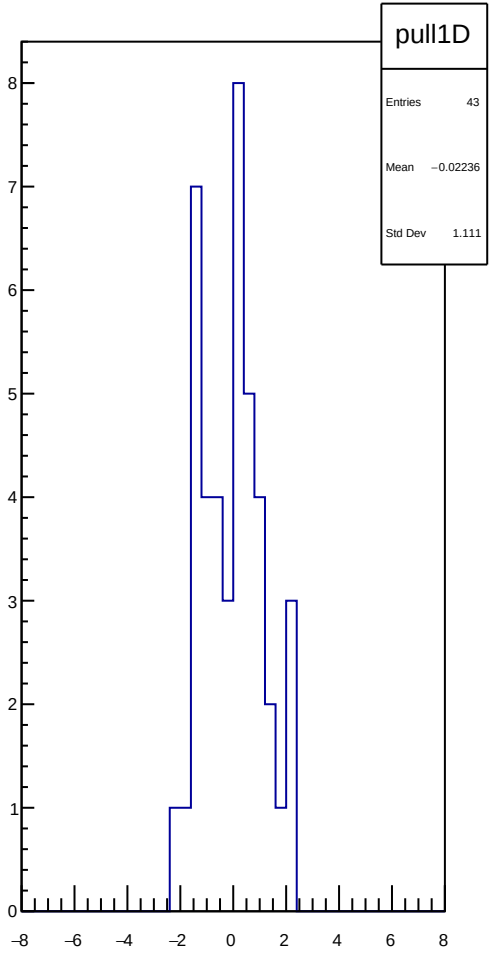

pull1D
Entries 43
Mean 0.002623
Std Dev 0.7913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

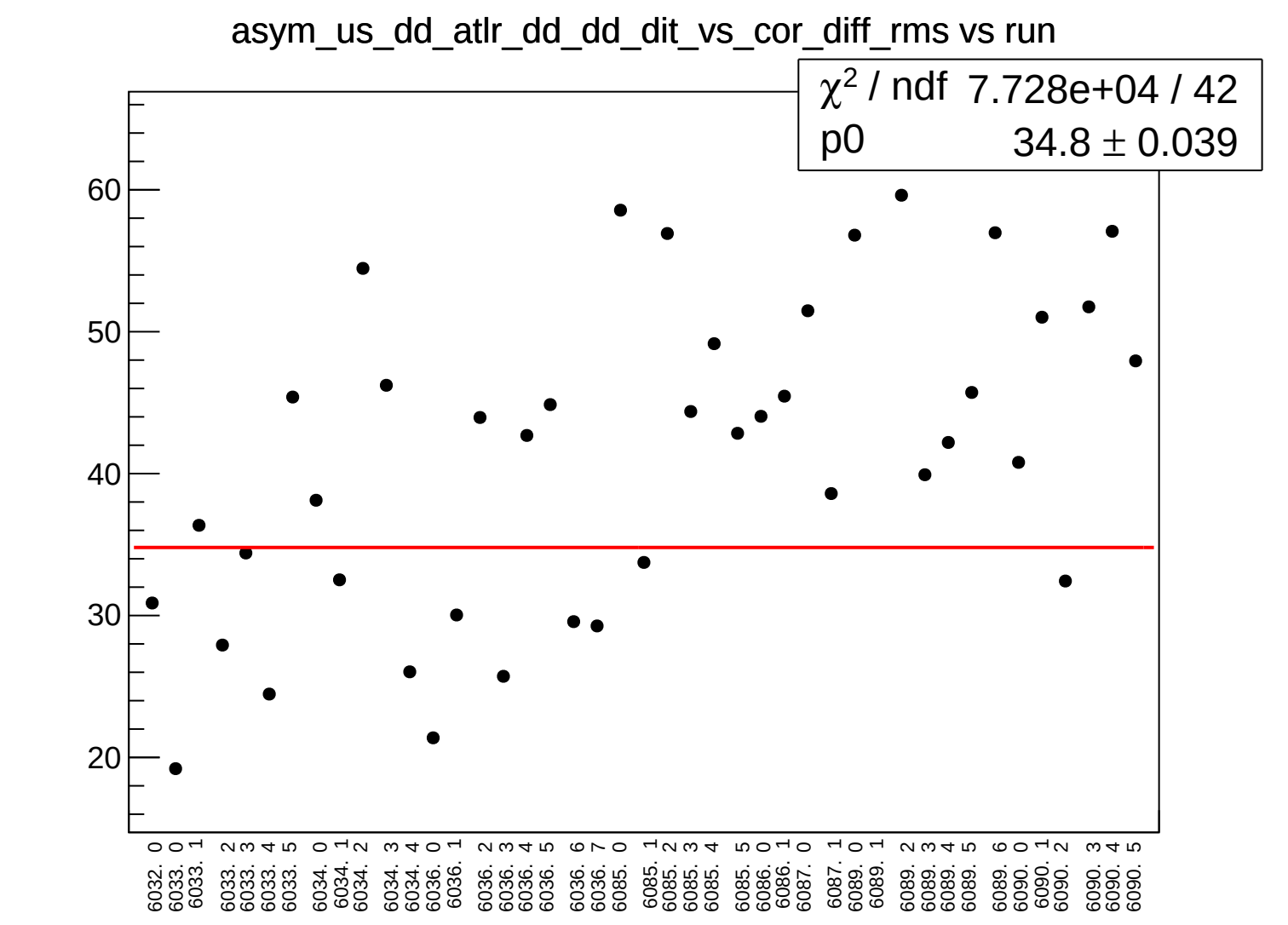

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 972.9 / 42
p0 1098 ± 1.176
1300
1250
1200
1150
1100
1050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

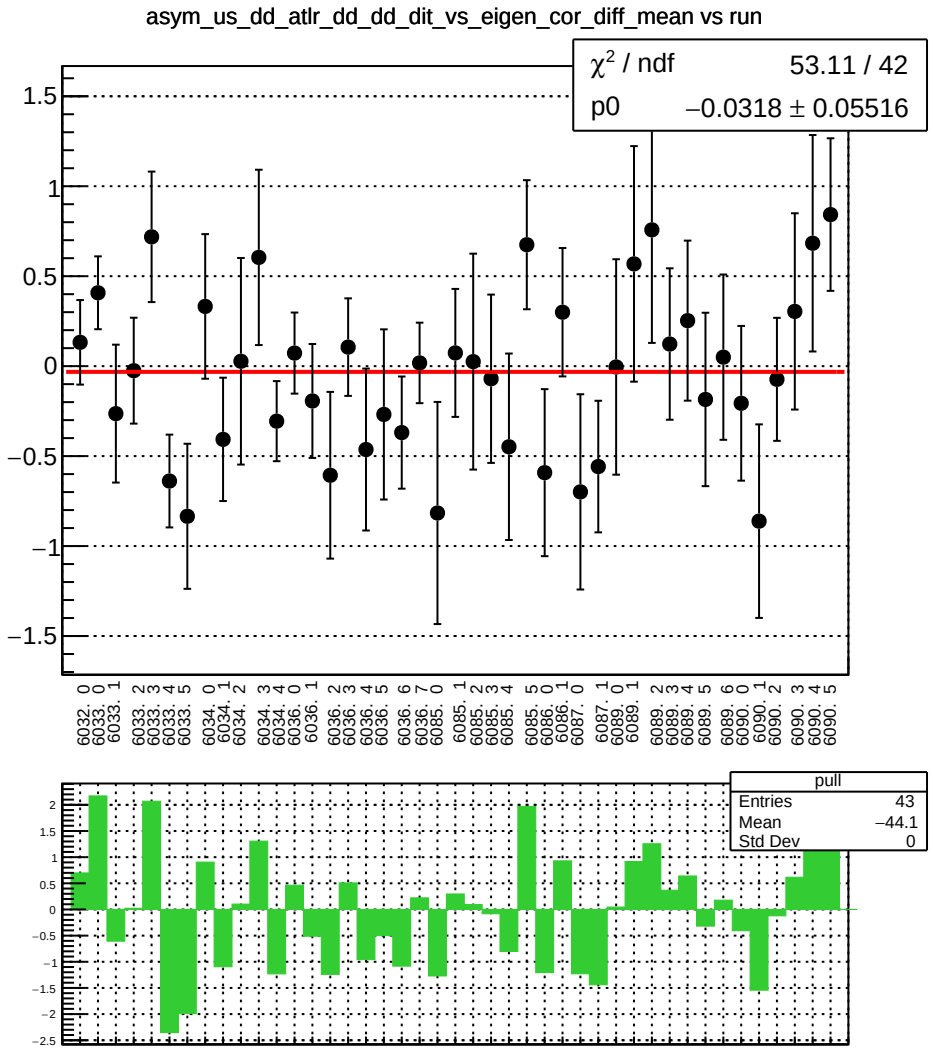

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.04 / 42
p0 2.587e−14 ± 2.551e−14
0.01
0.005
0
−0.005
−0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 61.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.06827
Std Dev 0.819
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

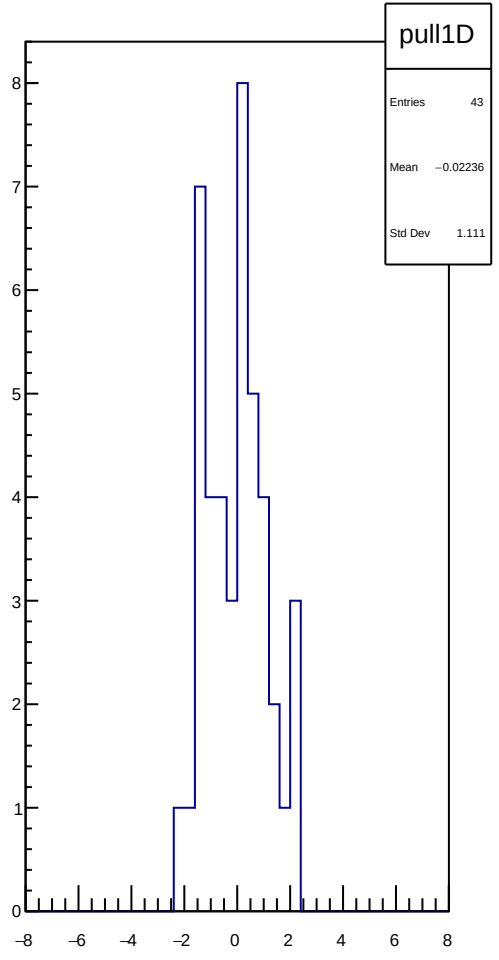

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.073e+05 / 42
p0 9.3e−12 ± 1.804e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

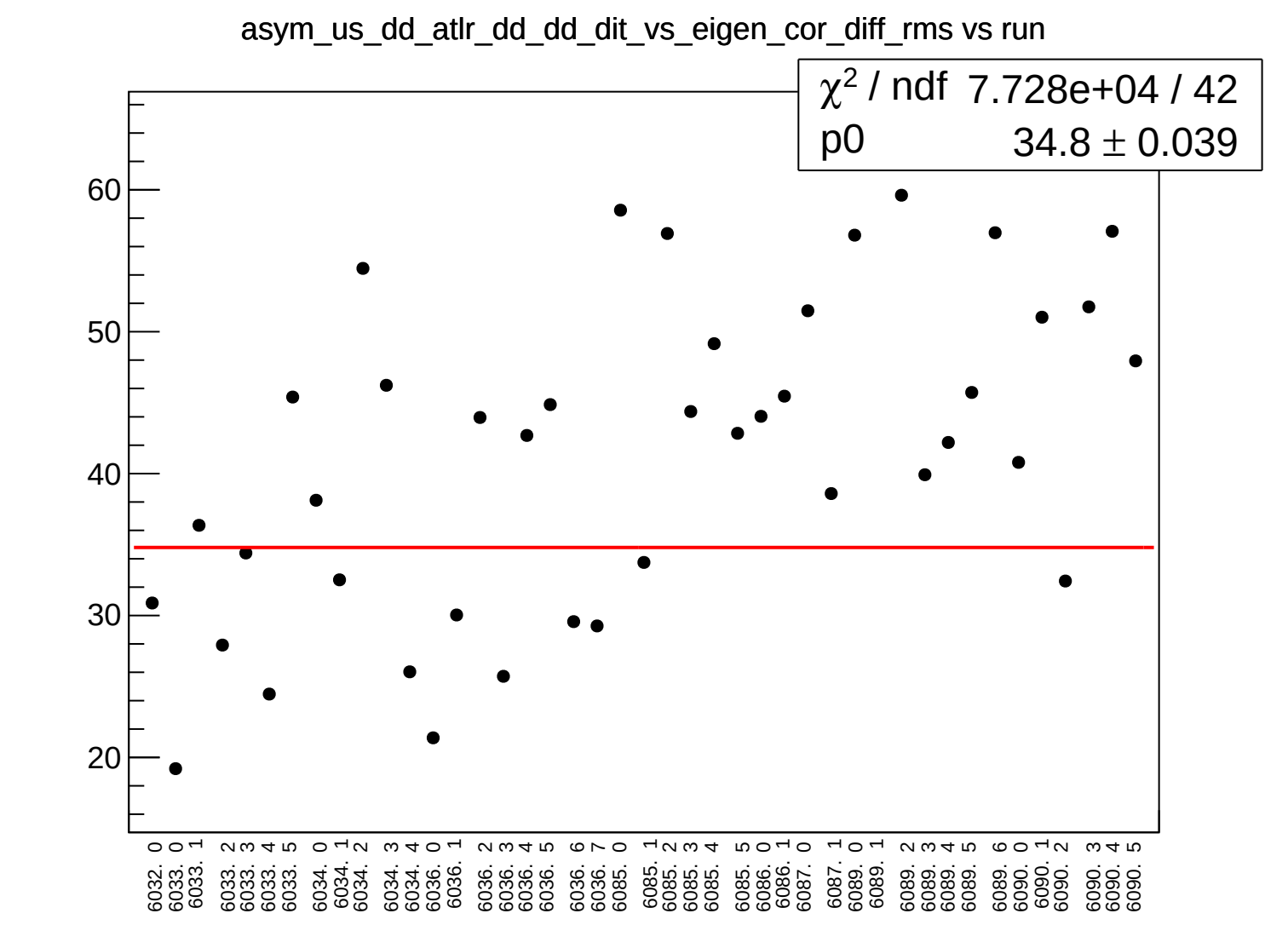

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 53.11 / 42
p0 −0.0318 ± 0.05516
pull
Entries 43
Mean −44.1
Std Dev 0

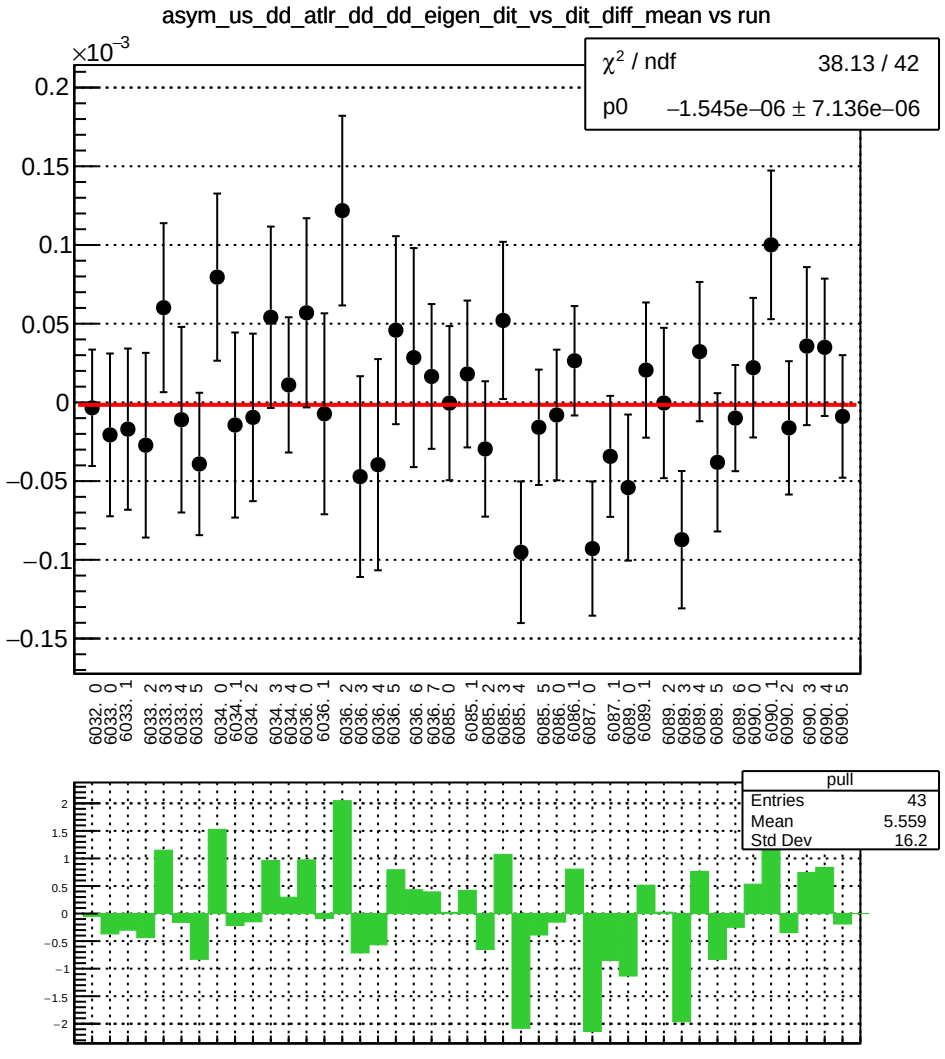

pull1D
Entries 43
Mean −0.02236
Std Dev 1.111

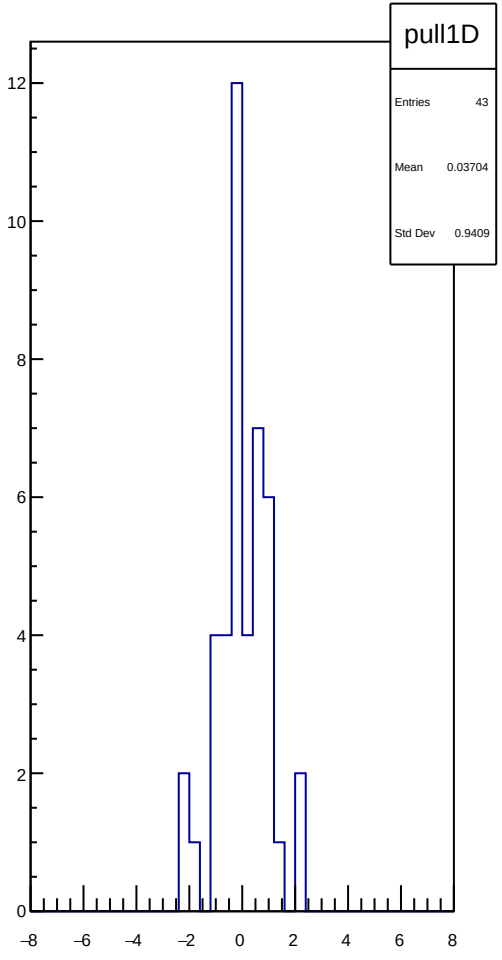

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.728e+04 / 42
p0 34.8 ± 0.039
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

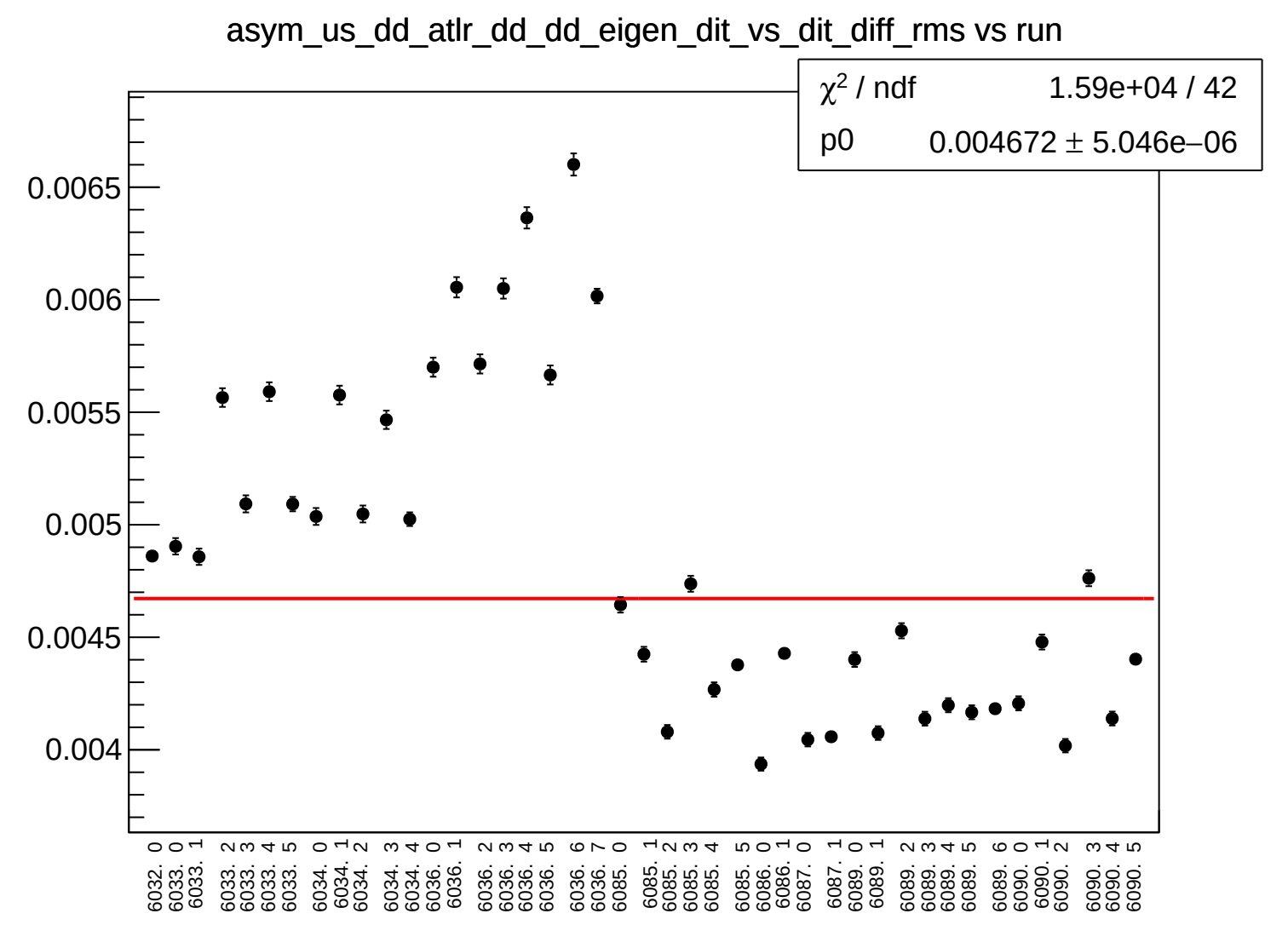

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 53.11 / 42
p0 −0.0318 ± 0.05516
pull
Entries 43
Mean −44.1
Std Dev 0

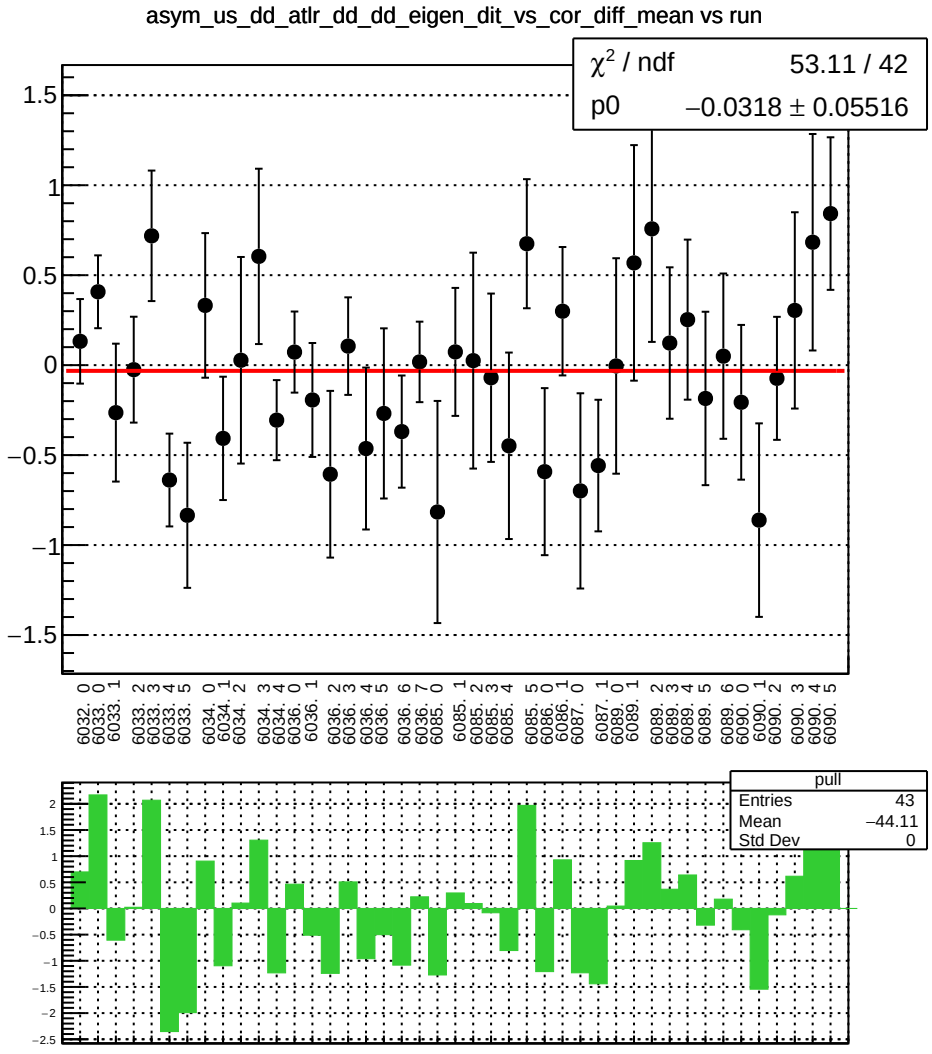

pull1D
Entries 43
Mean −0.02236
Std Dev 1.111

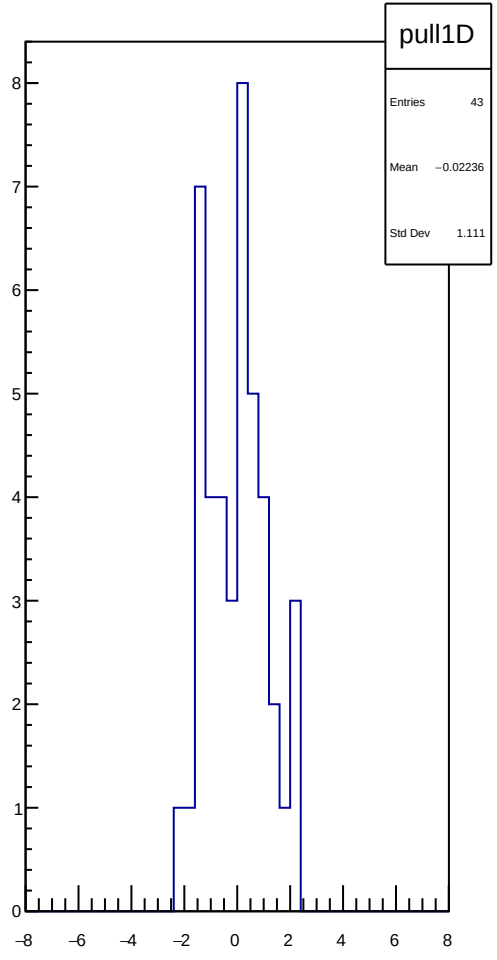

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.728e+04 / 42
p0 34.8 ± 0.039
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

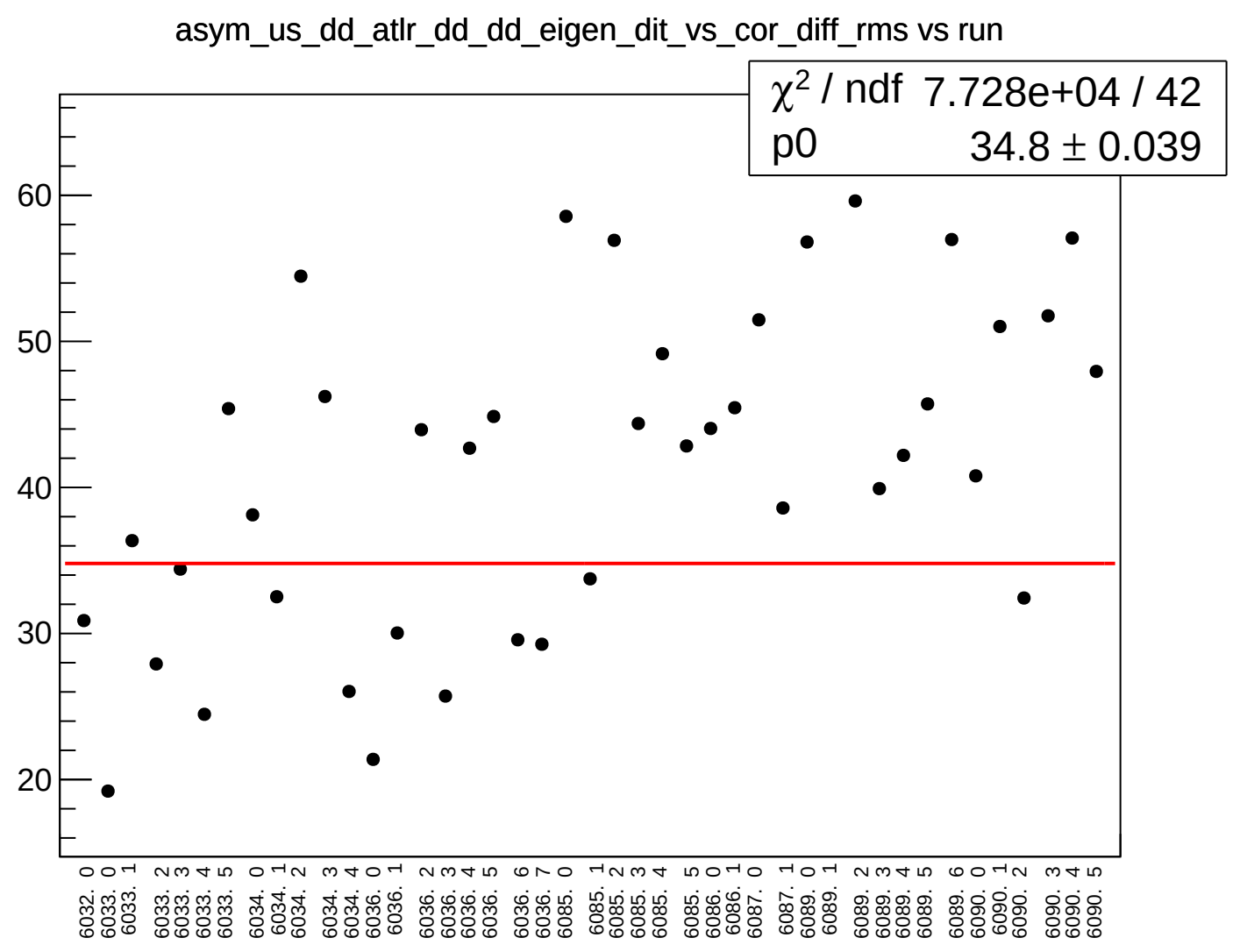

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.13 / 42
p0 −1.545e−06 ± 7.136e−06
pull
Entries 43
Mean 5.559
Std Dev 16.2

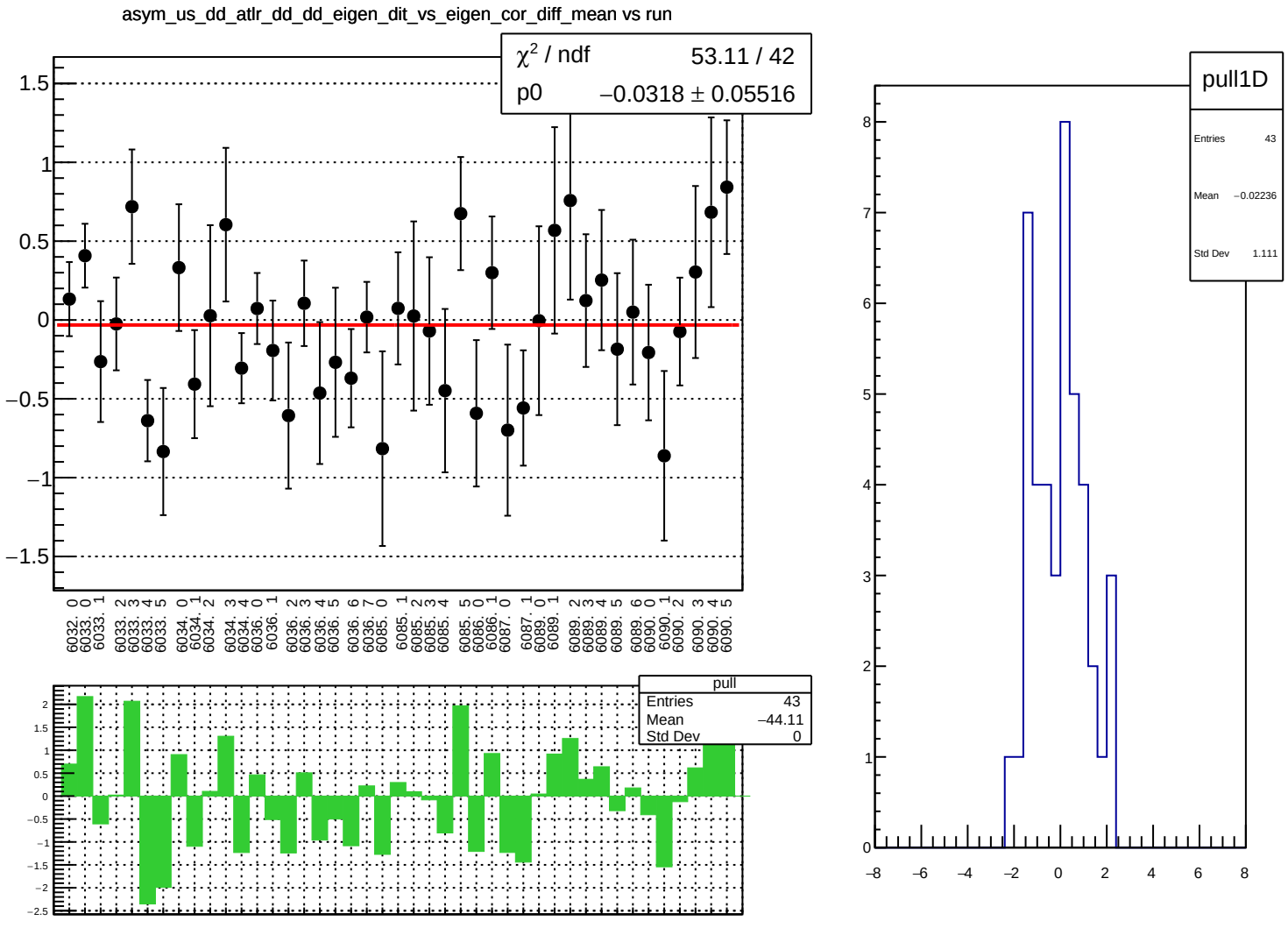

pull1D
Entries 43
Mean 0.03704
Std Dev 0.9409

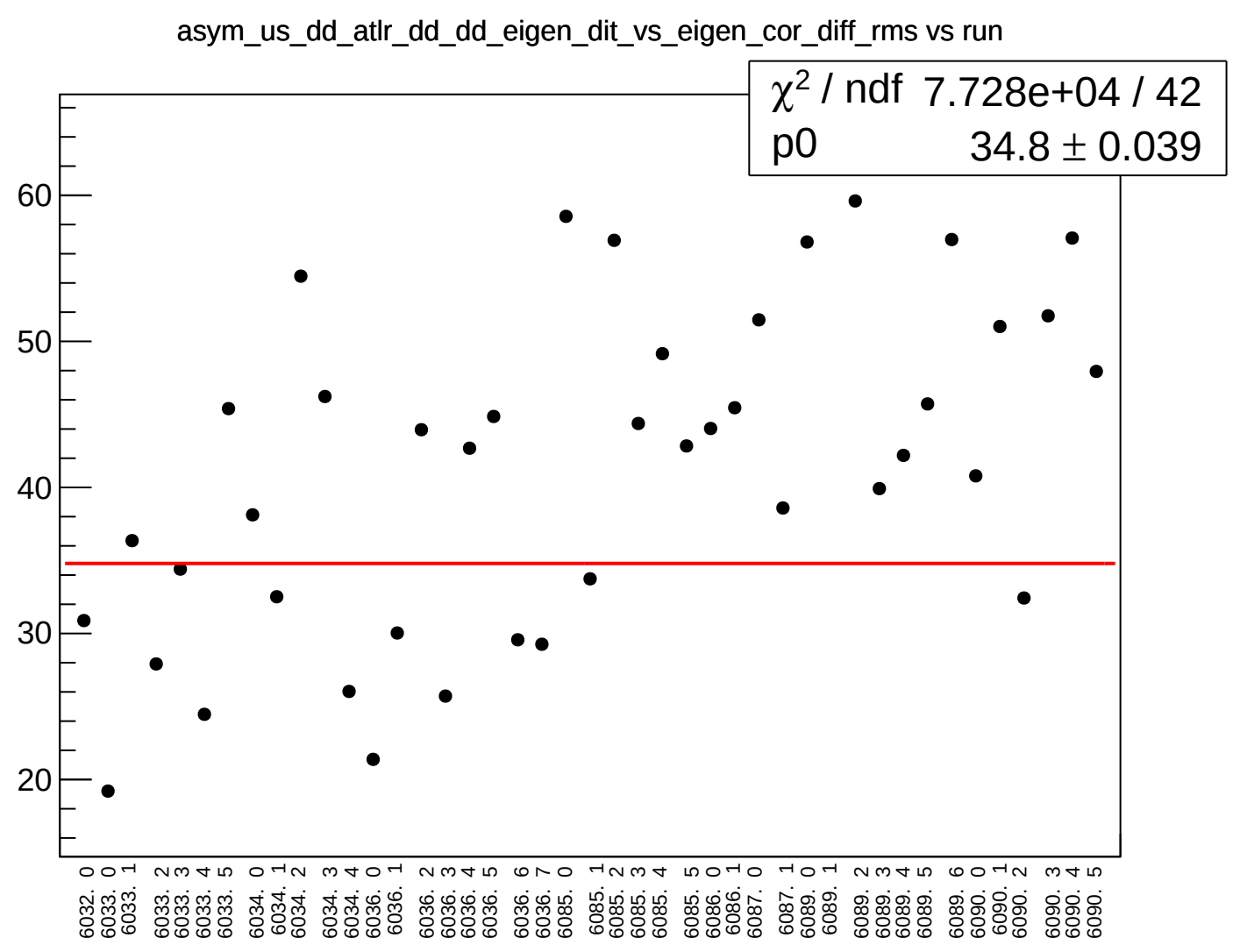

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.59e+04 / 42
p0 0.004672 ± 5.046e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

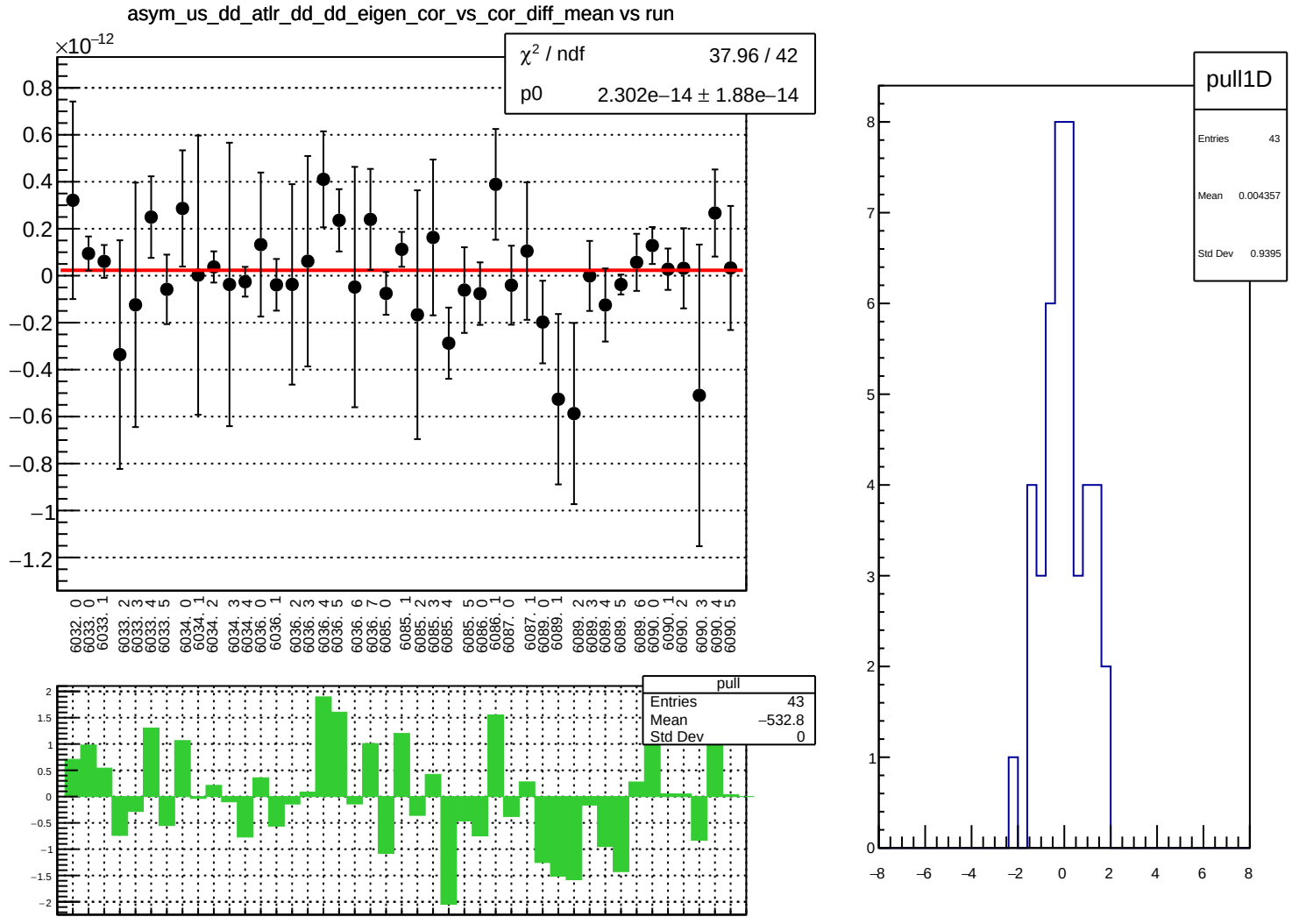

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.11 / 42
p0 −0.0318 ± 0.05516
pull
Entries 43
Mean −44.11
Std Dev 0

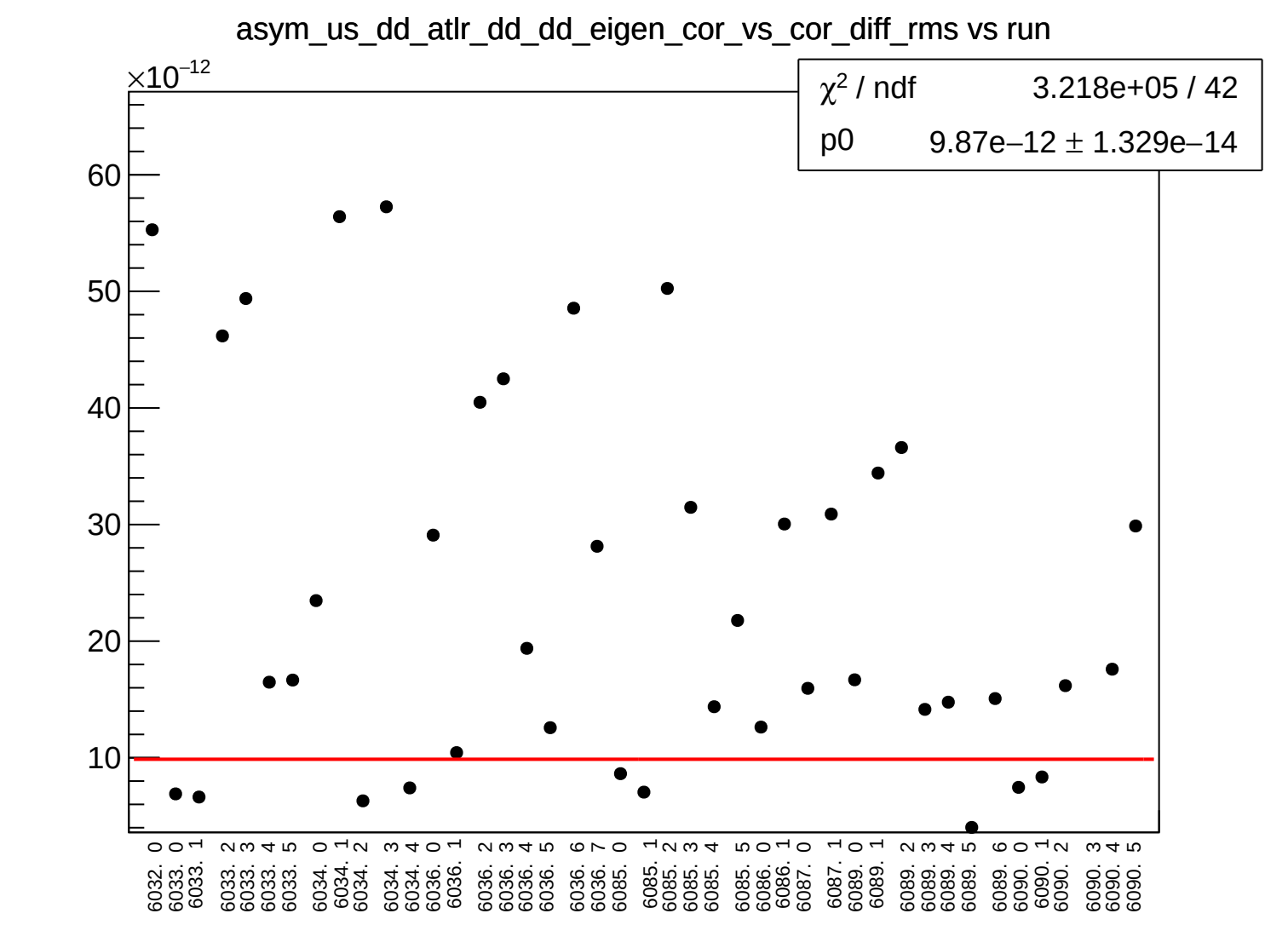

pull1D
Entries 43
Mean −0.02236
Std Dev 1.111

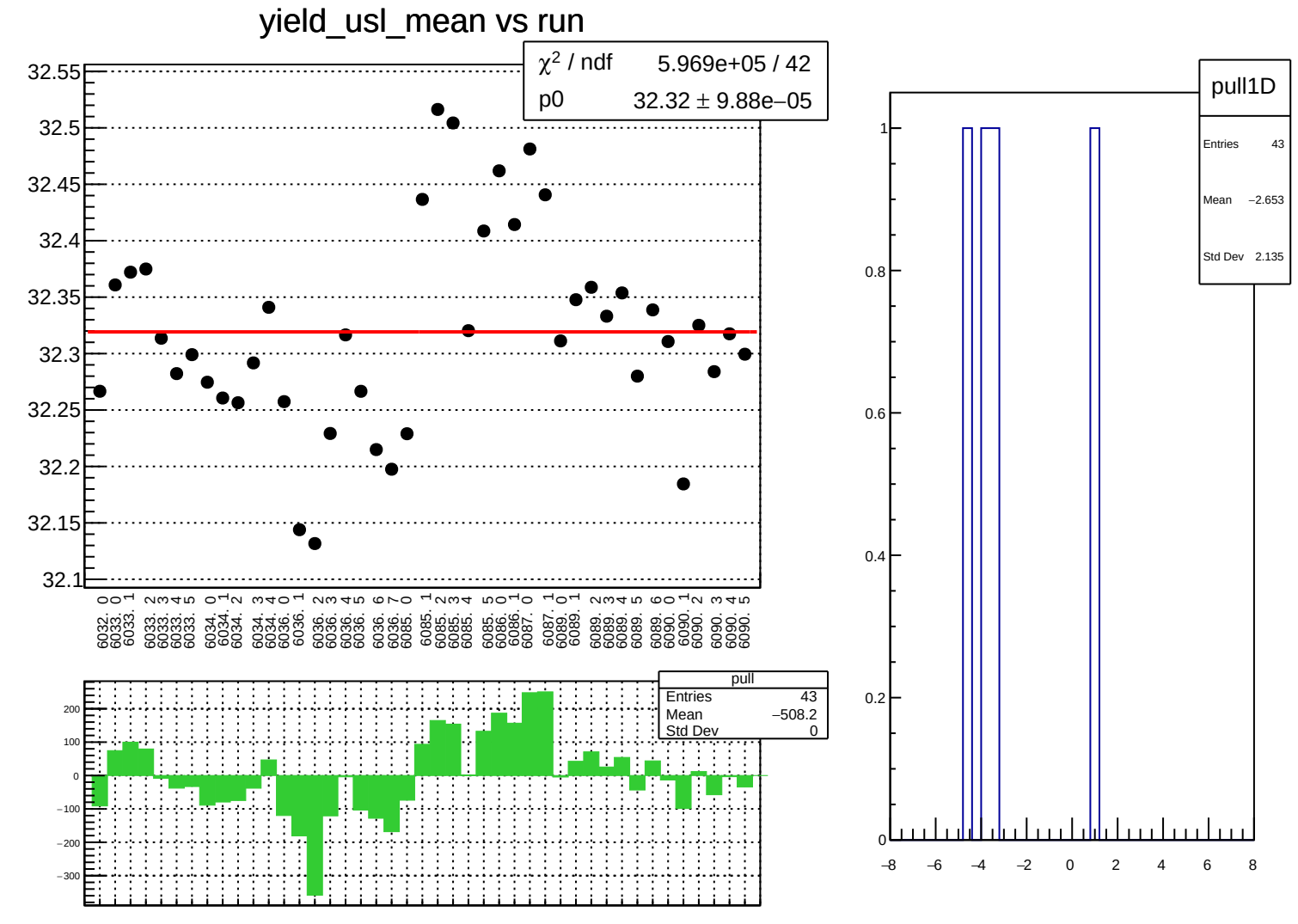

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.728e+04 / 42
p0 34.8 ± 0.039
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

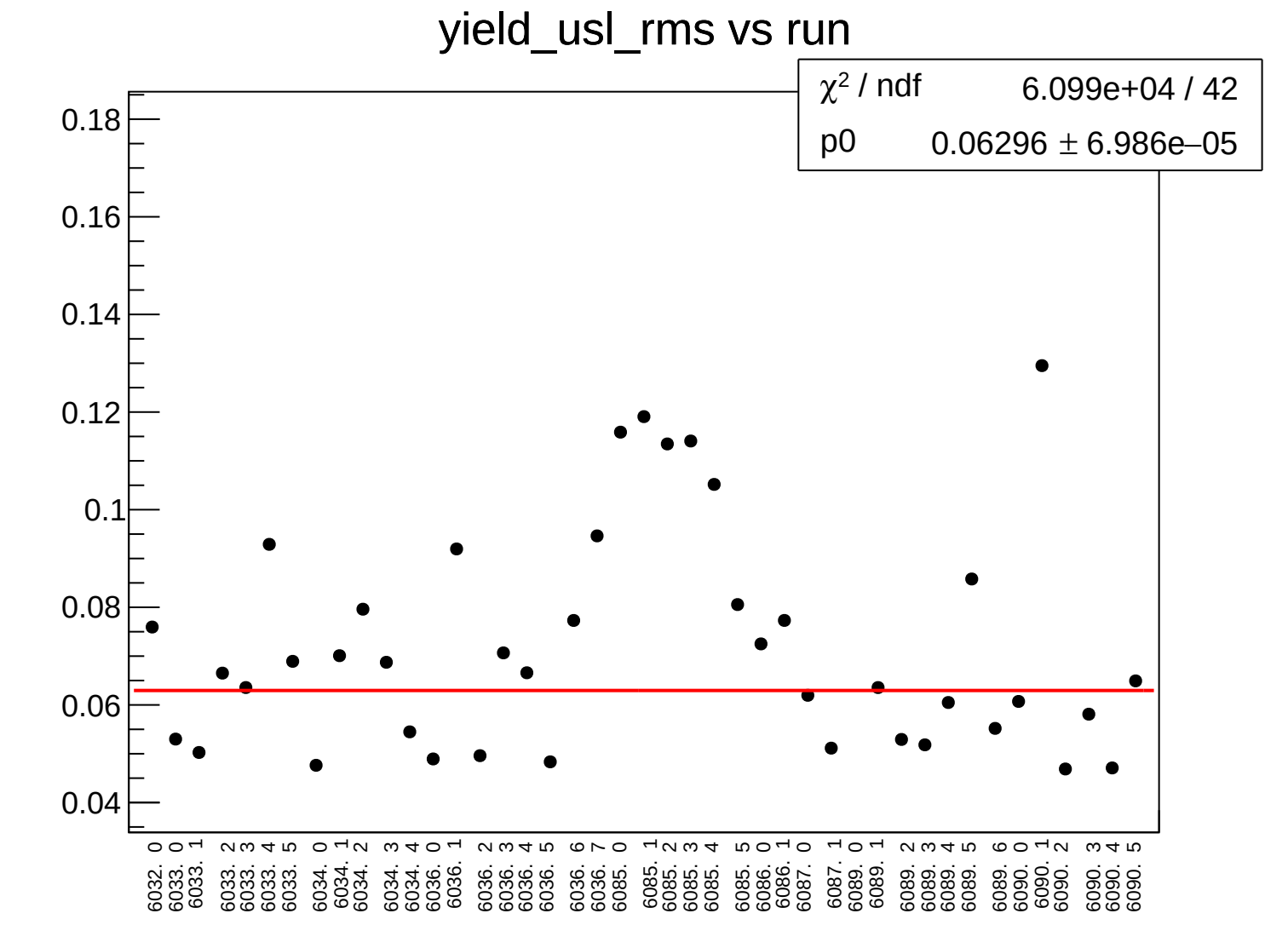

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.11 / 42
p0 −0.0318 ± 0.05516
pull
Entries 43
Mean −44.11
Std Dev 0
pull1D
Entries 43
Mean −0.02236
Std Dev 1.111

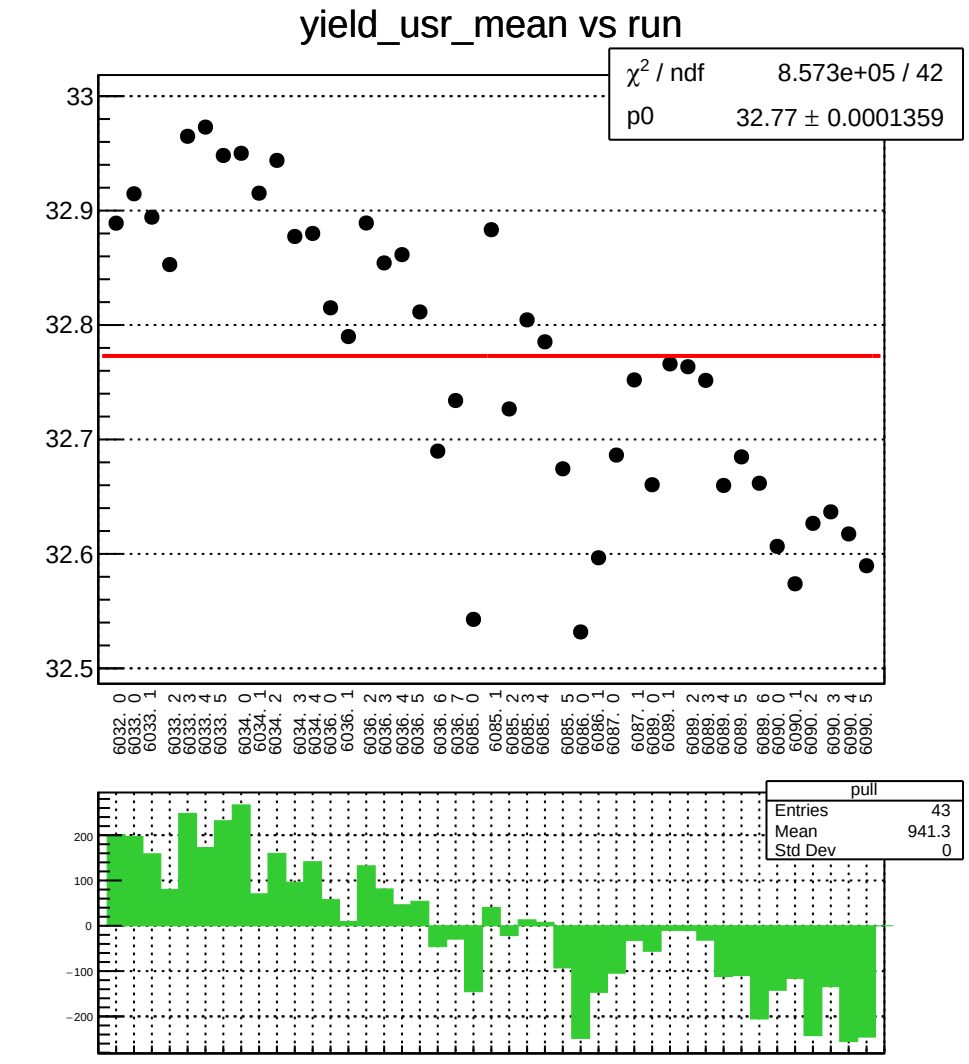

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.728e+04 / 42
p0 34.8 ± 0.039
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

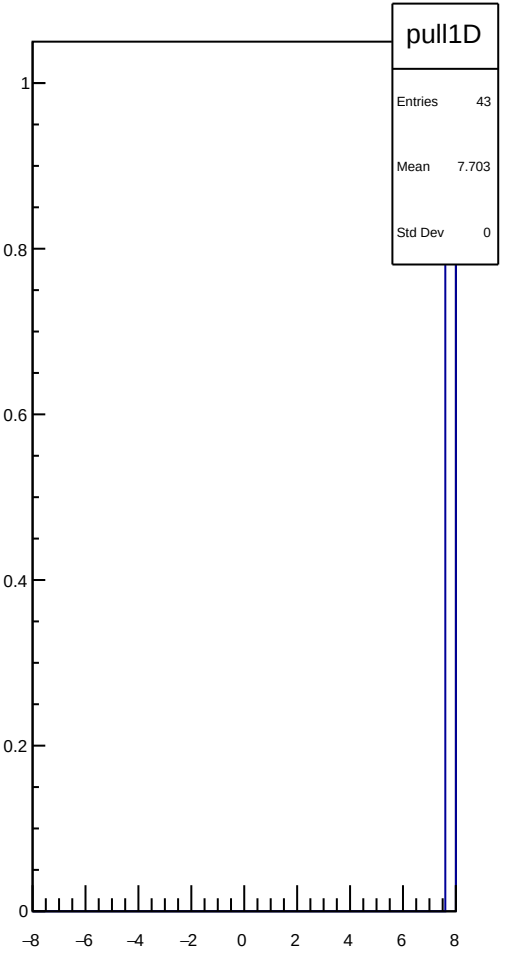

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.96 / 42
p0 2.302e−14 ± 1.88e−14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −532.8
Std Dev 0
pull1D
Entries 43
Mean 0.004357
Std Dev 0.9395

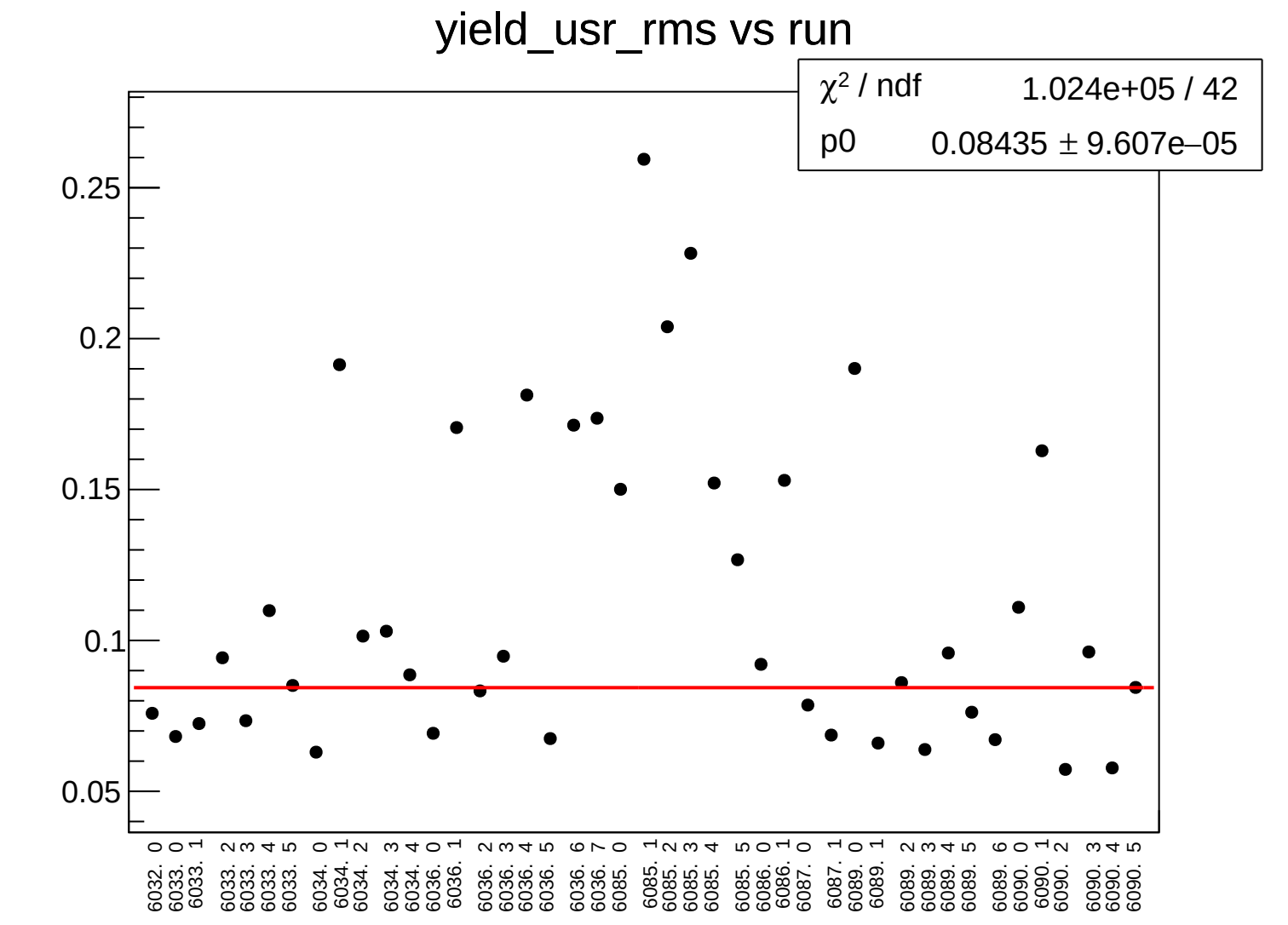

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.218e+05 / 42
p0 9.87e−12 ± 1.329e−14
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

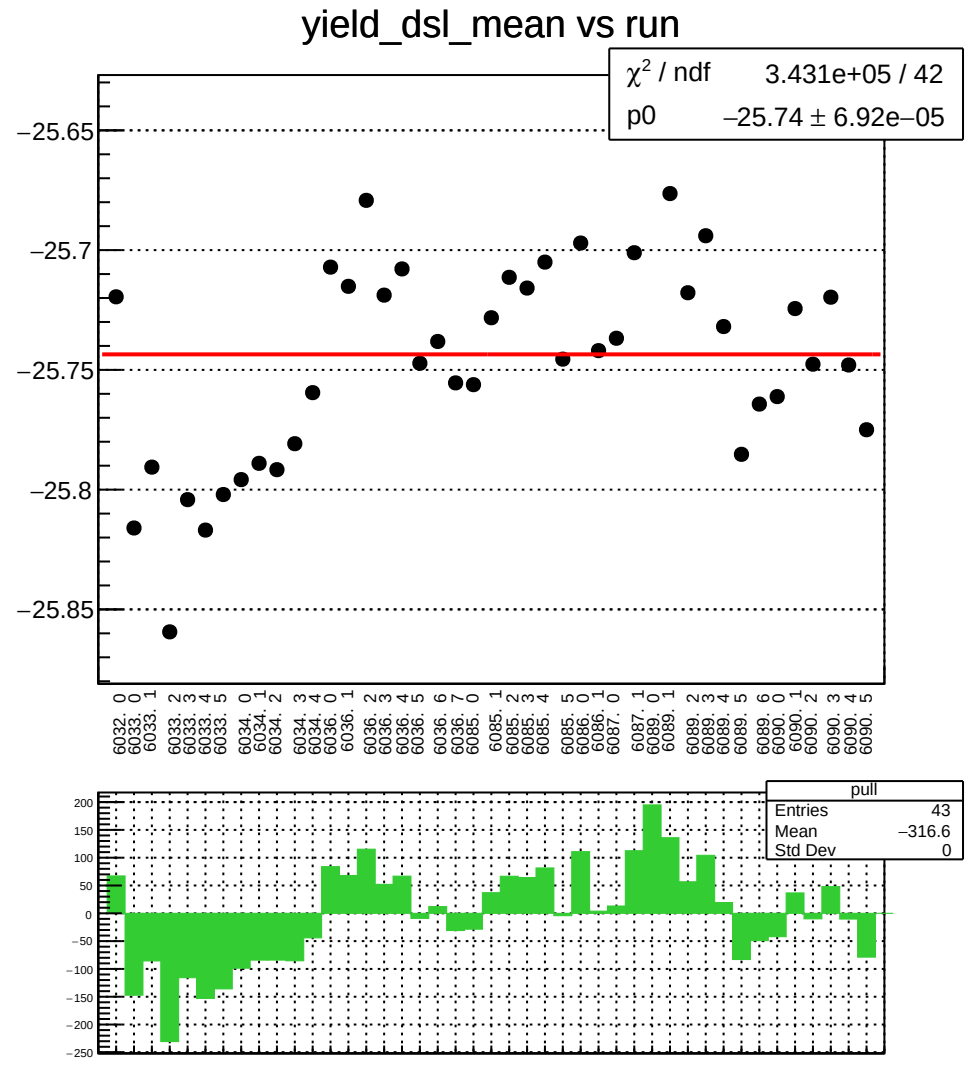

yield_usl_mean vs run
χ² / ndf 5.969e+05 / 42
p0 32.32 ± 9.88e−05
32.55
32.5
32.45
32.4
32.35
32.3
32.25
32.2
32.15
32.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −508.2
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean −2.653
Std Dev 2.135
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

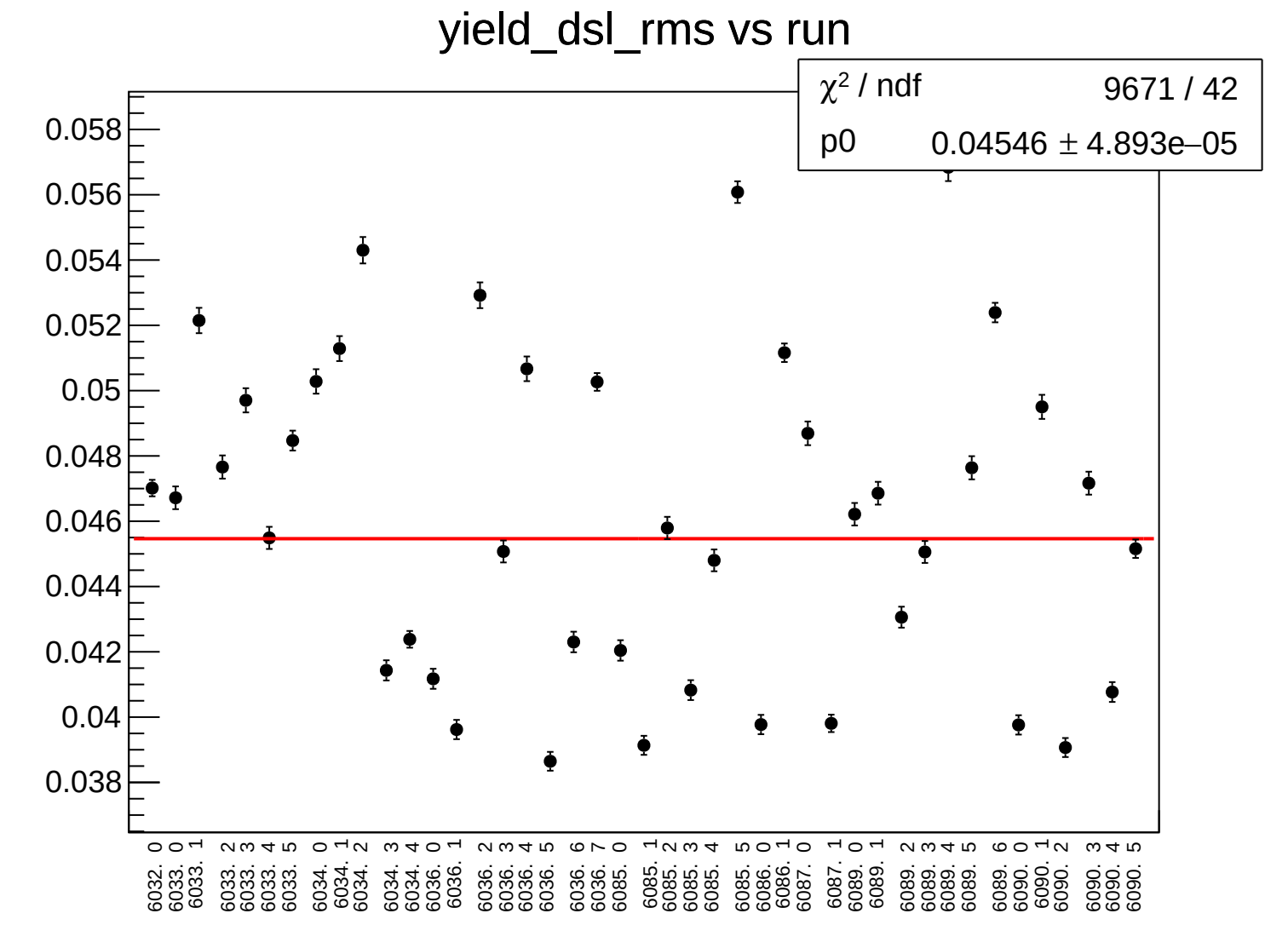

yield_usl_rms vs run
χ² / ndf 6.099e+04 / 42
p0 0.06296 ± 6.986e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

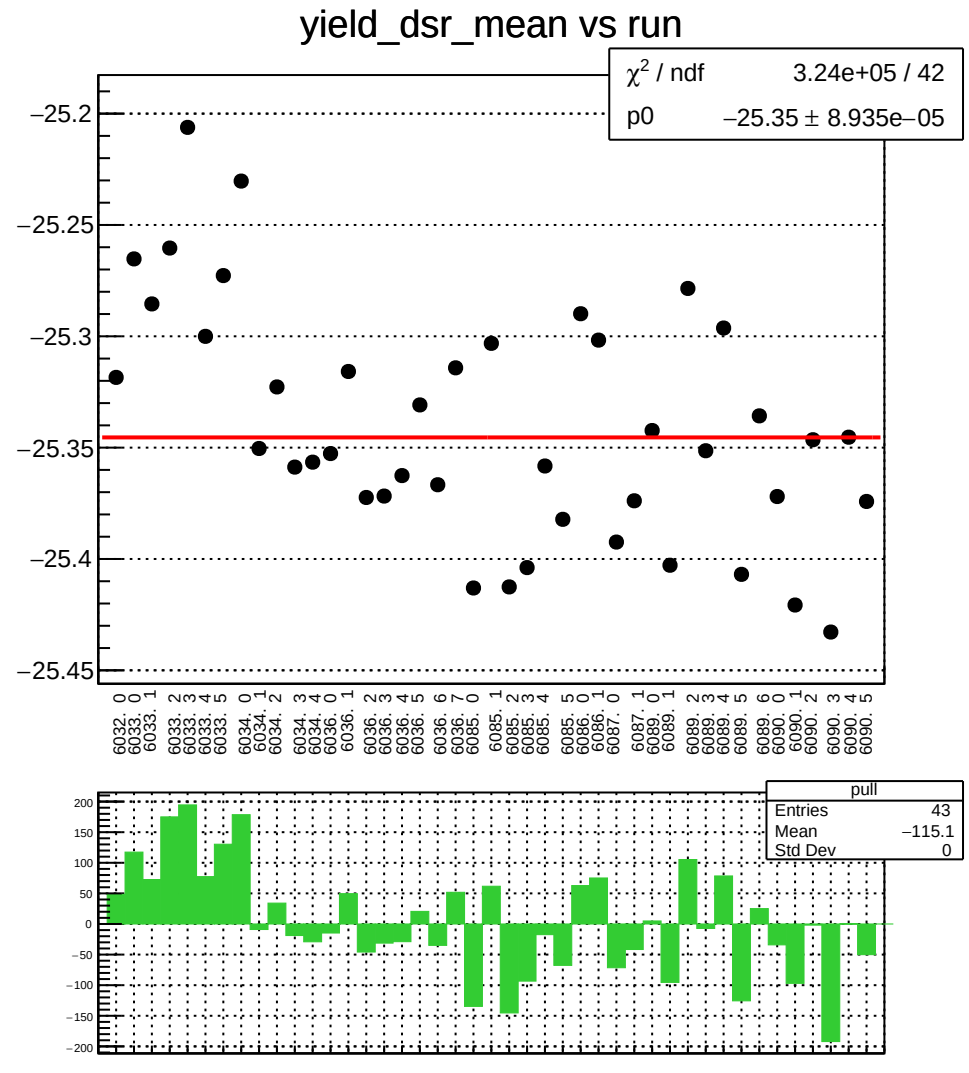

yield_usr_mean vs run
χ² / ndf 8.573e+05 / 42
p0 32.77 ± 0.0001359
33
32.9
32.8
32.7
32.6
32.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 941.3
Std Dev 0
200
100
0
−100
−200

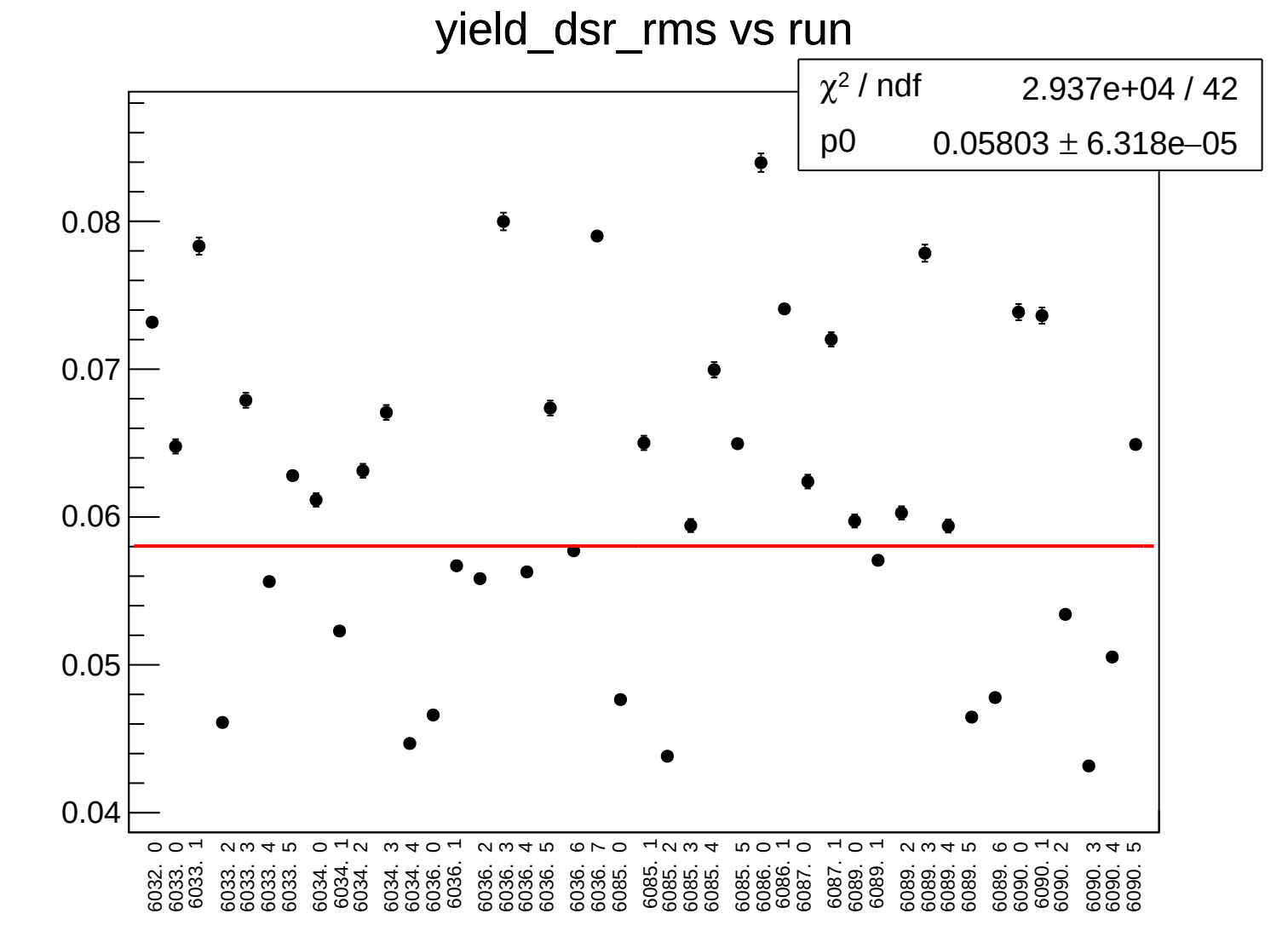

pull1D
Entries 43
Mean 7.703
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

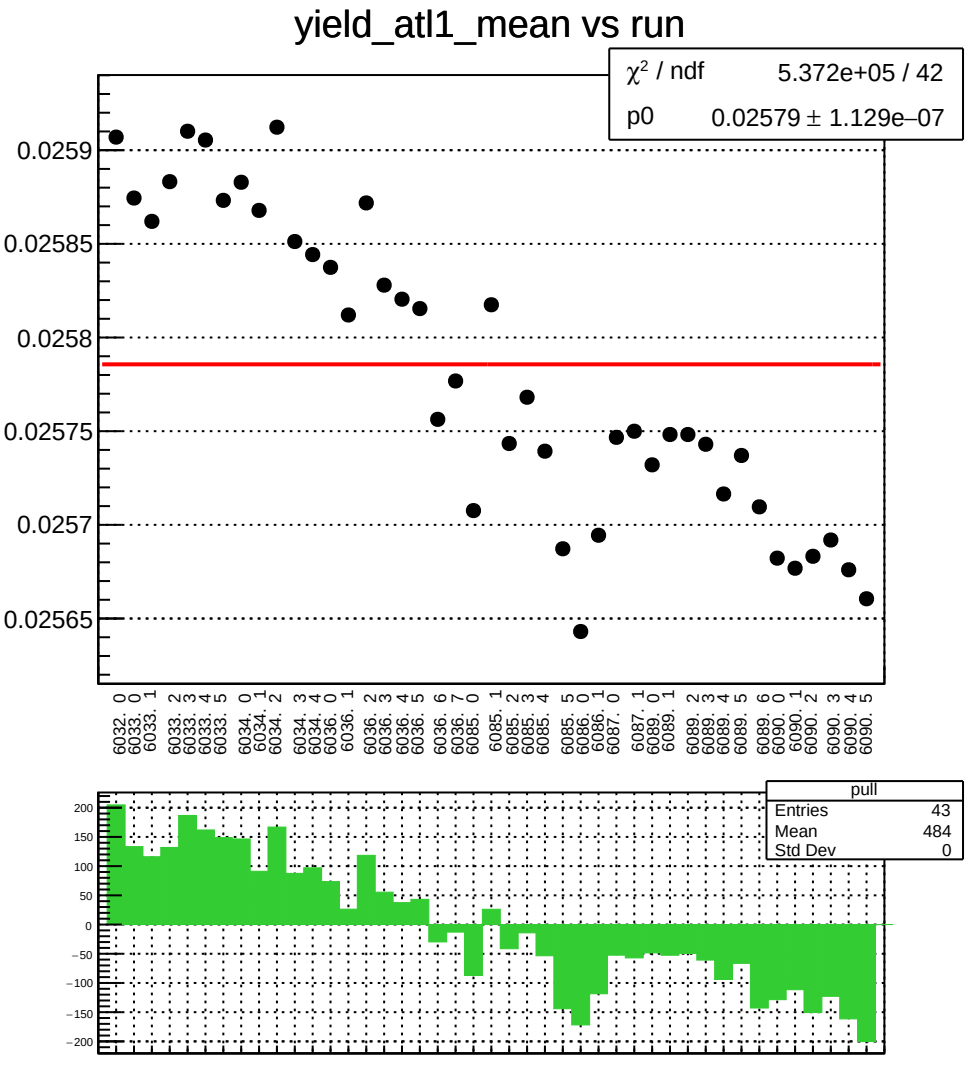

yield_usr_rms vs run
χ² / ndf 1.024e+05 / 42
p0 0.08435 ± 9.607e−05
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

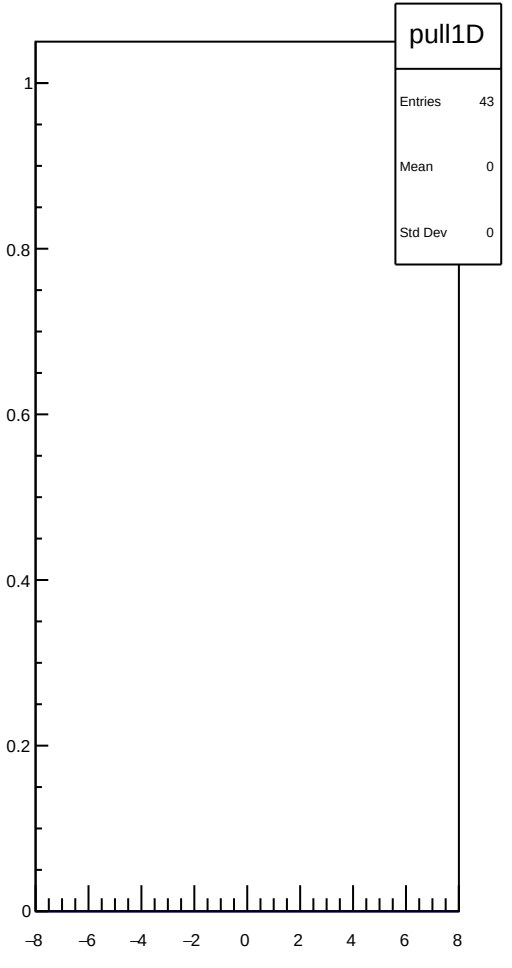

yield_dsl_mean vs run
χ² / ndf 3.431e+05 / 42
p0 −25.74 ± 6.92e−05
−25.65
−25.7
−25.75
−25.8
−25.85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −316.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 43
Mean −0.1775
Std Dev 4.068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

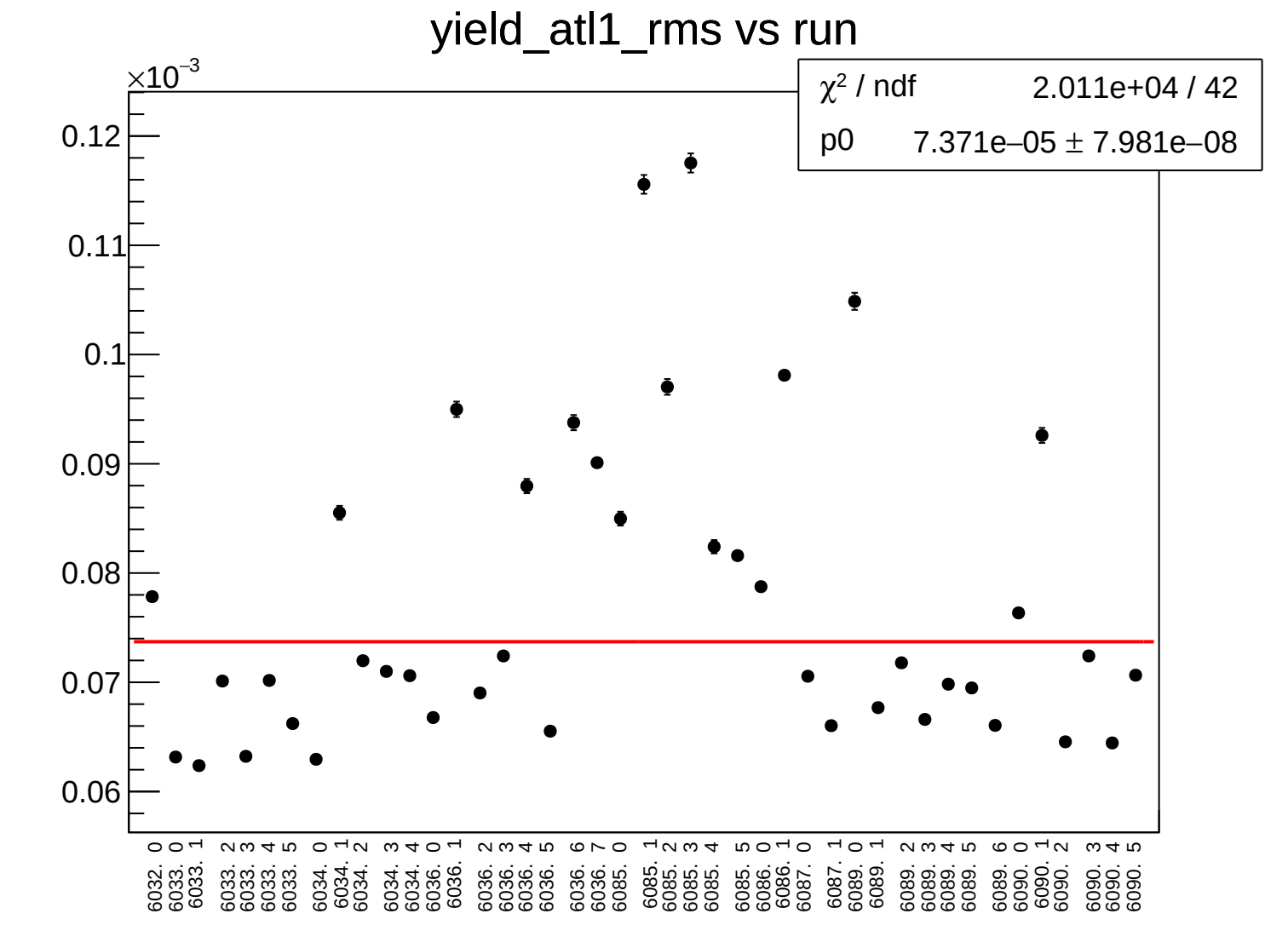

yield_dsl_rms vs run
χ² / ndf 9671 / 42
p0 0.04546 ± 4.893e−05
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

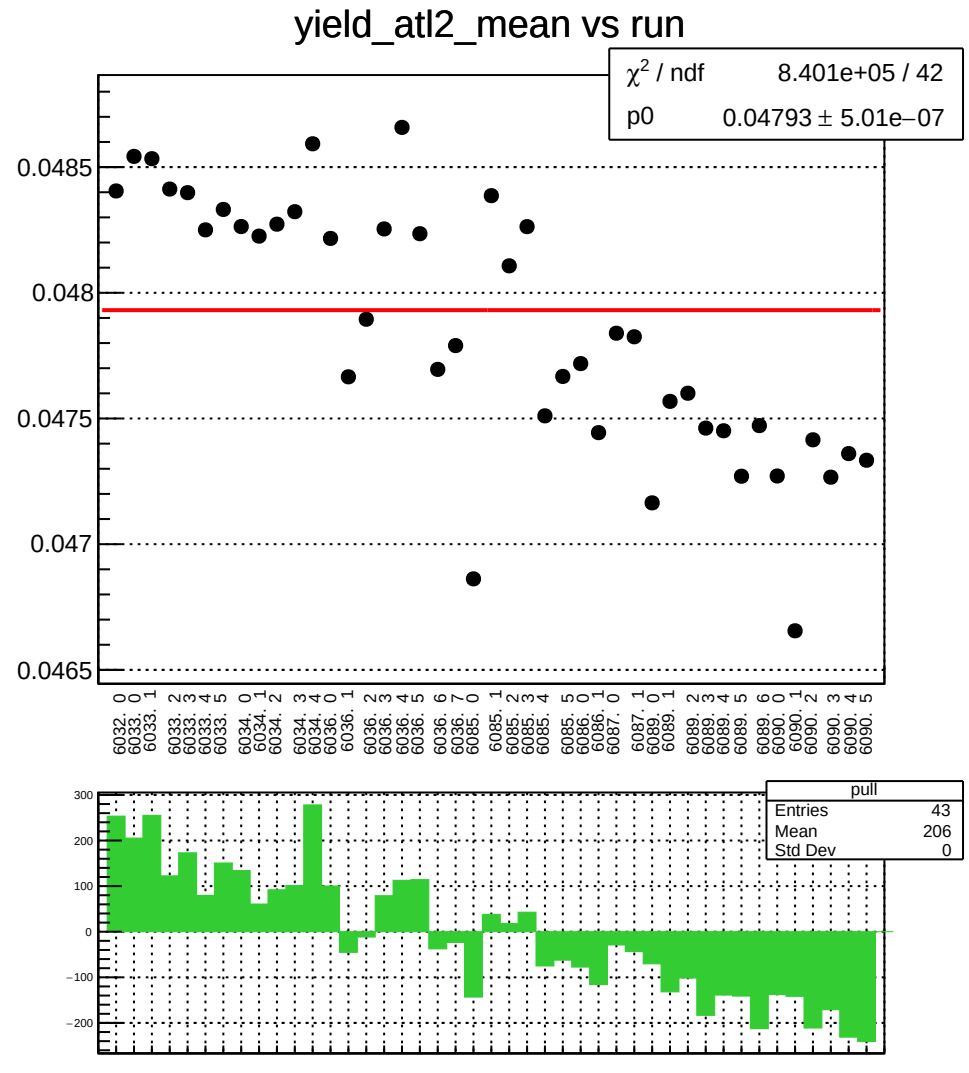

yield_dsr_mean vs run
χ² / ndf 3.24e+05 / 42
p0 −25.35 ± 8.935e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −115.1
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean −1.001
Std Dev 4.381
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

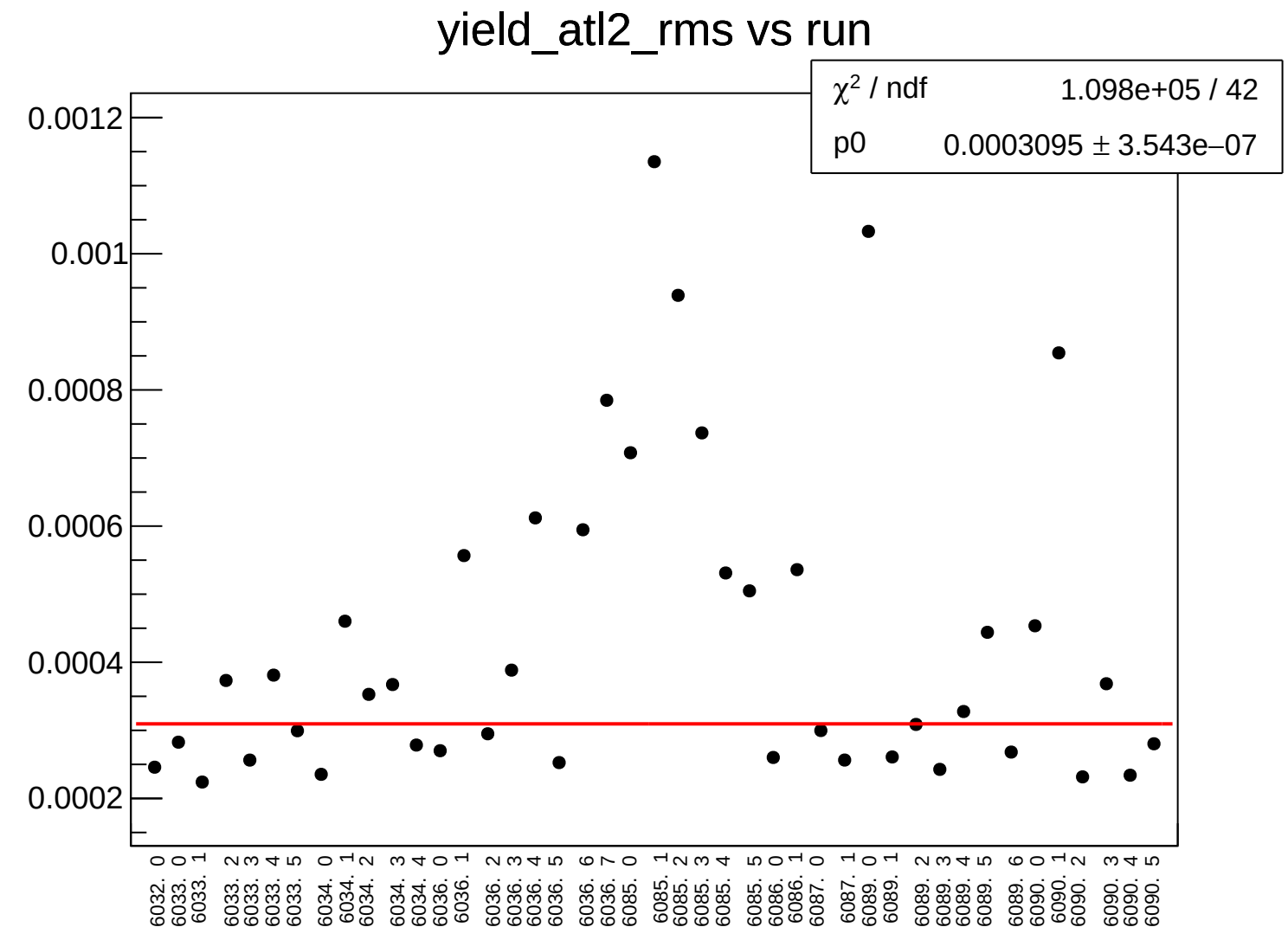

yield_dsr_rms vs run
χ² / ndf 2.937e+04 / 42
p0 0.05803 ± 6.318e−05
0.08
0.07
0.06
0.05
0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

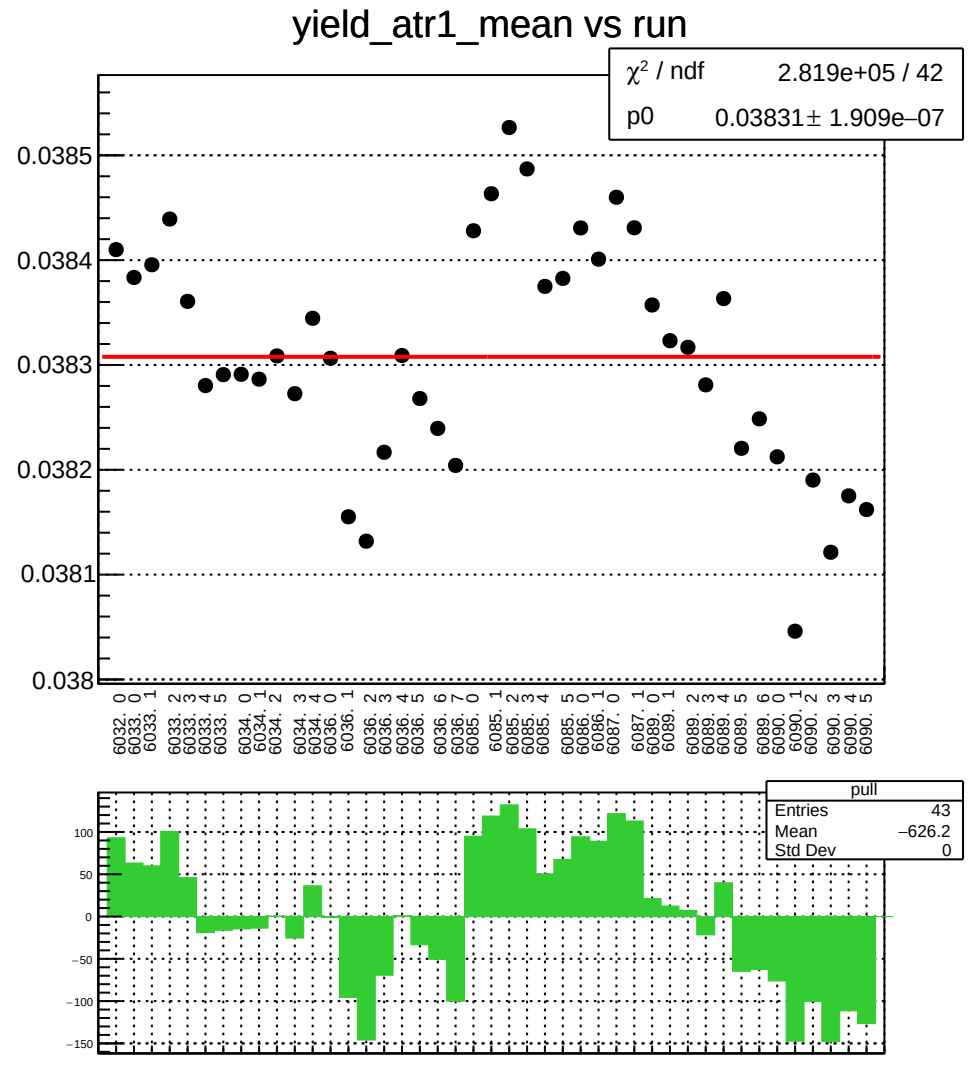

yield_atl1_mean vs run
χ² / ndf 5.372e+05 / 42
p0 0.02579 ± 1.129e−07
0.0259
0.02585
0.0258
0.02575
0.0257
0.02565
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 484
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

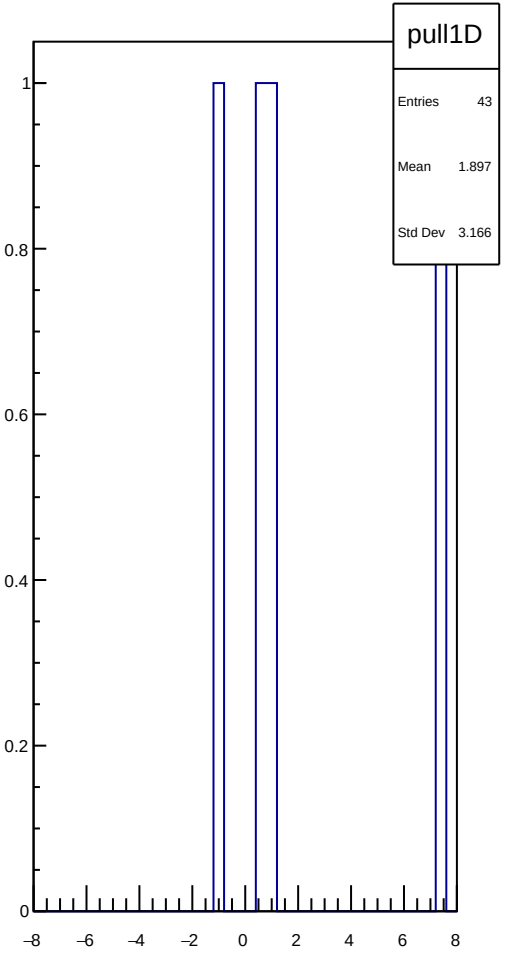

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

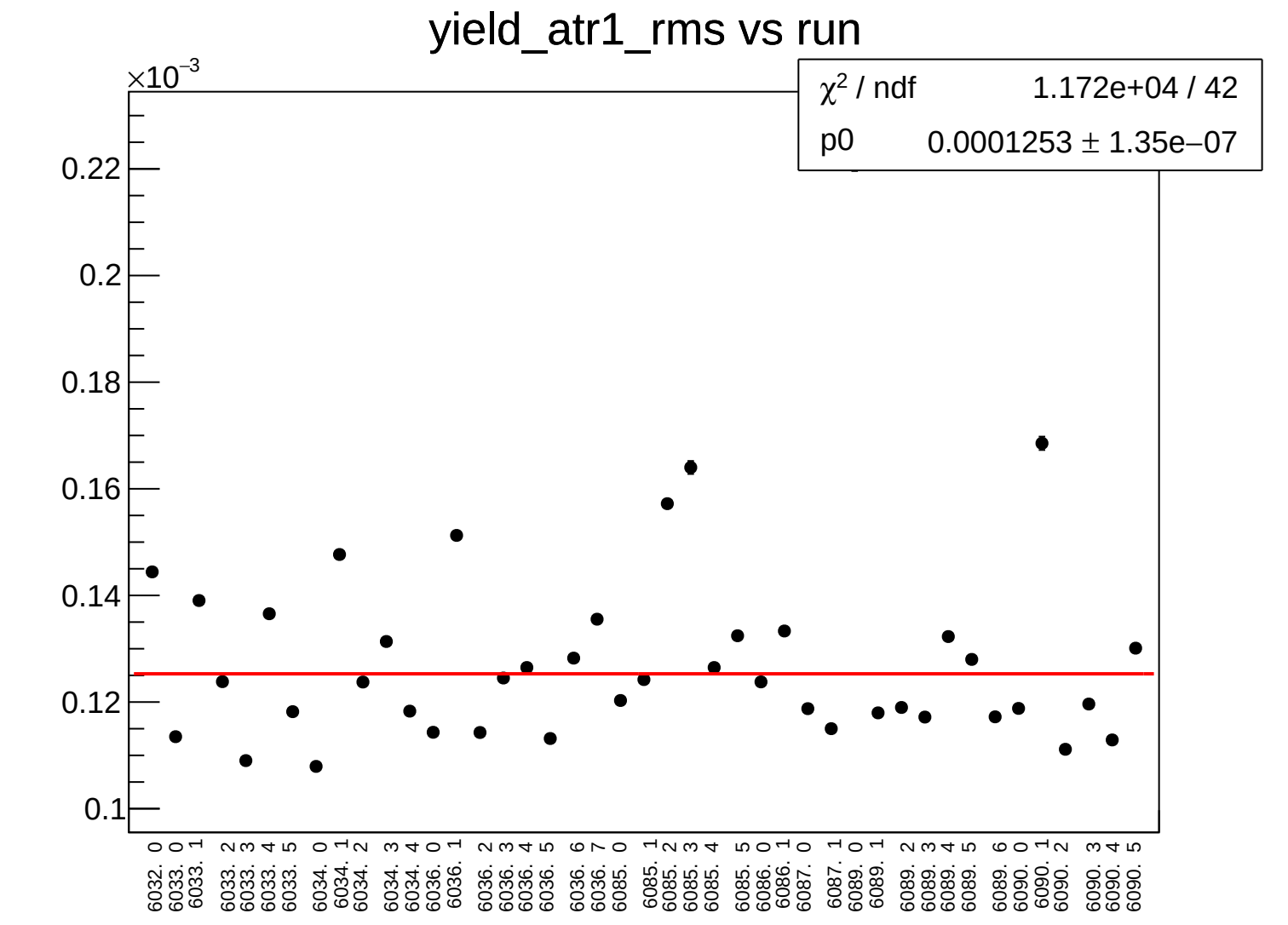

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.011e+04 / 42
p0 7.371e−05 ± 7.981e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

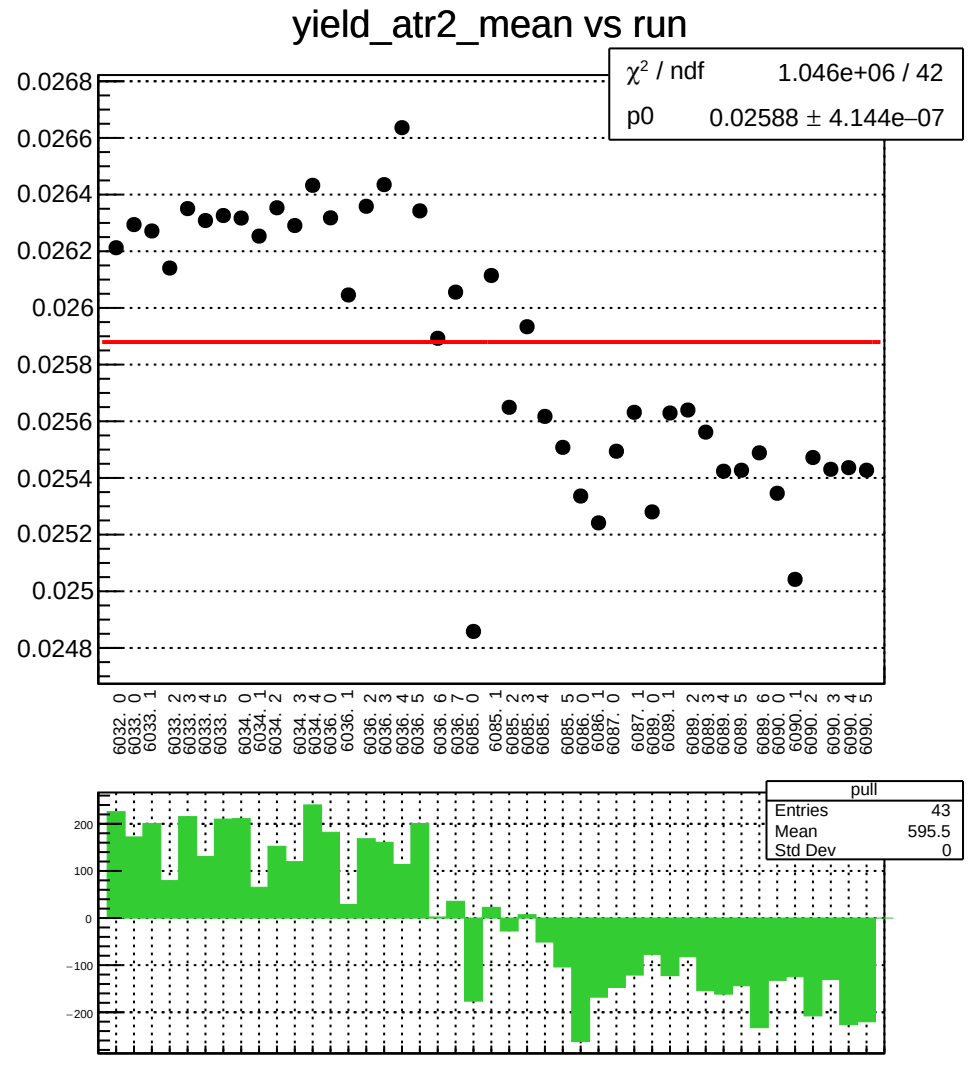

yield_atl2_mean vs run
χ² / ndf 8.401e+05 / 42
p0 0.04793 ± 5.01e−07
0.0485
0.048
0.0475
0.047
0.0465
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 206
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

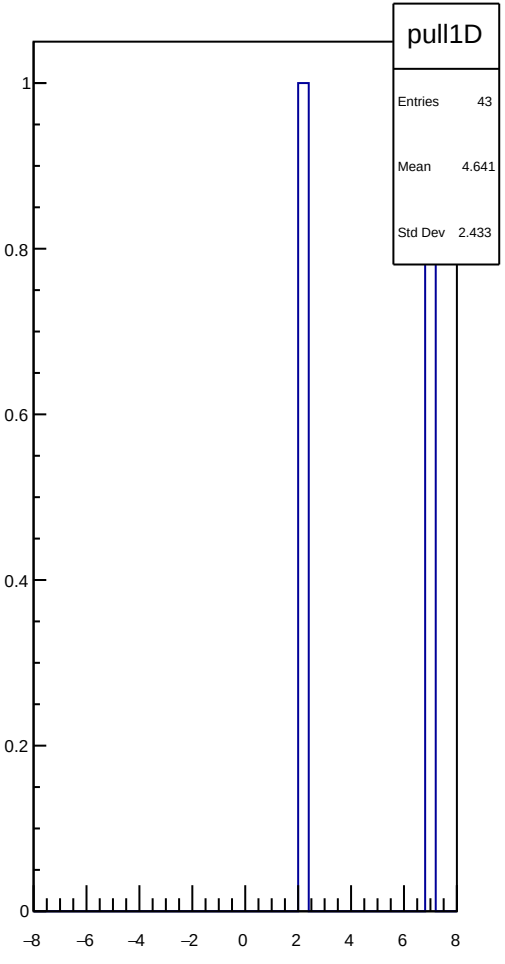

yield_atl2_rms vs run
χ² / ndf 1.098e+05 / 42
p0 0.0003095 ± 3.543e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

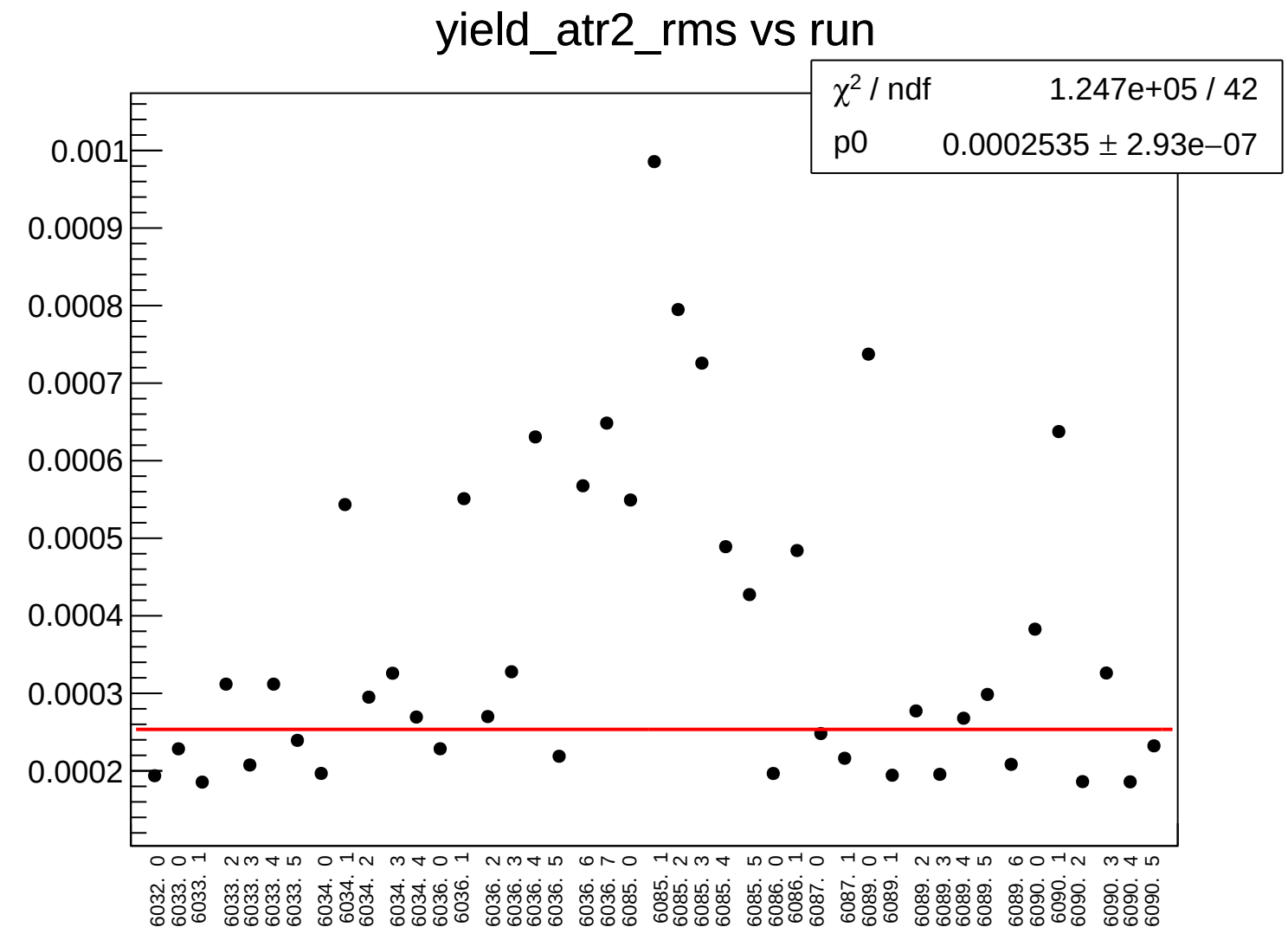

yield_atr1_mean vs run
χ² / ndf 2.819e+05 / 42
p0 0.03831± 1.909e−07
0.0385
0.0384
0.0383
0.0382
0.0381
0.038
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −626.2
Std Dev 0
100
50
0
−50
−100
−150

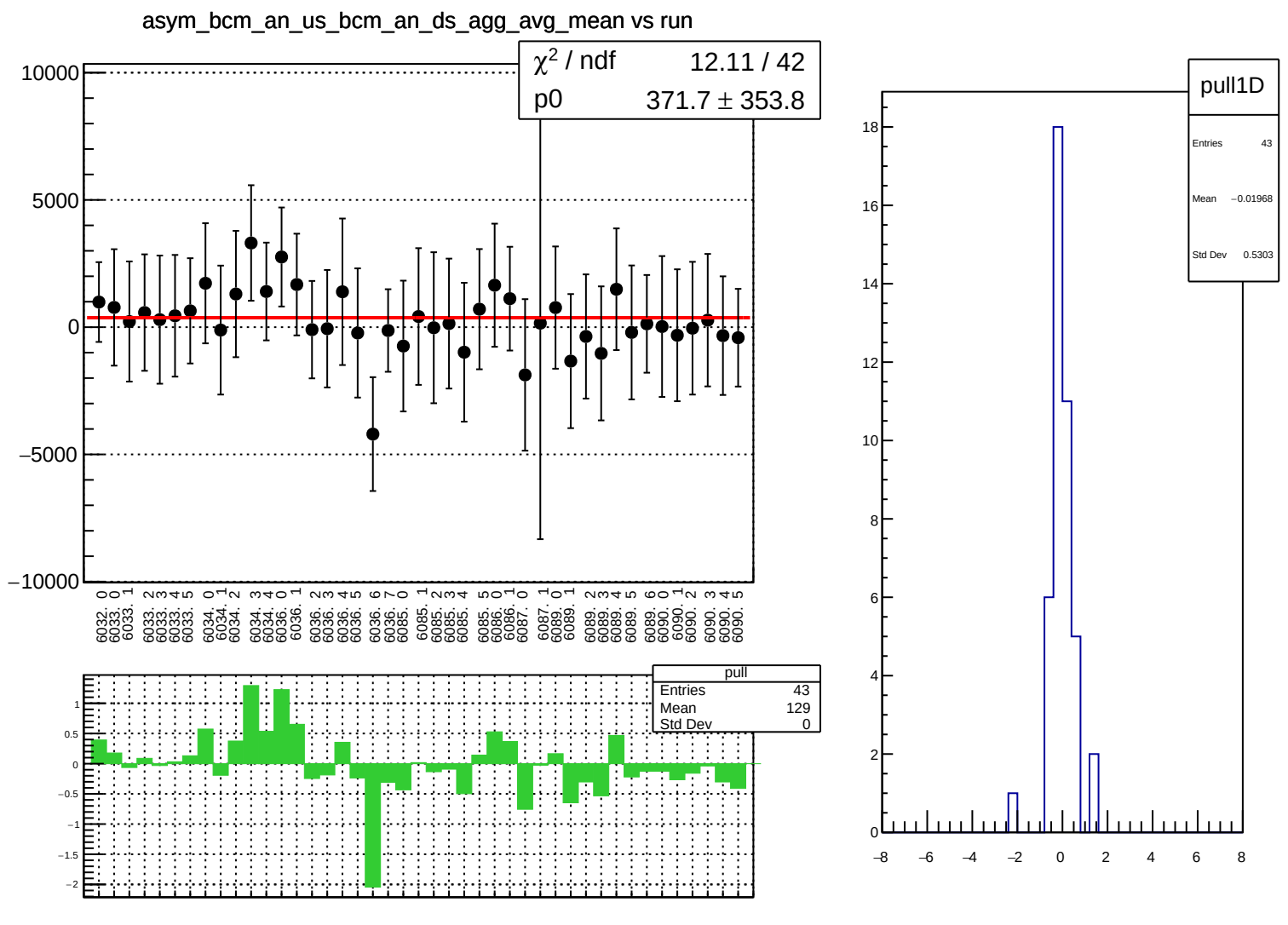

pull1D
Entries 43
Mean 1.897
Std Dev 3.166
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

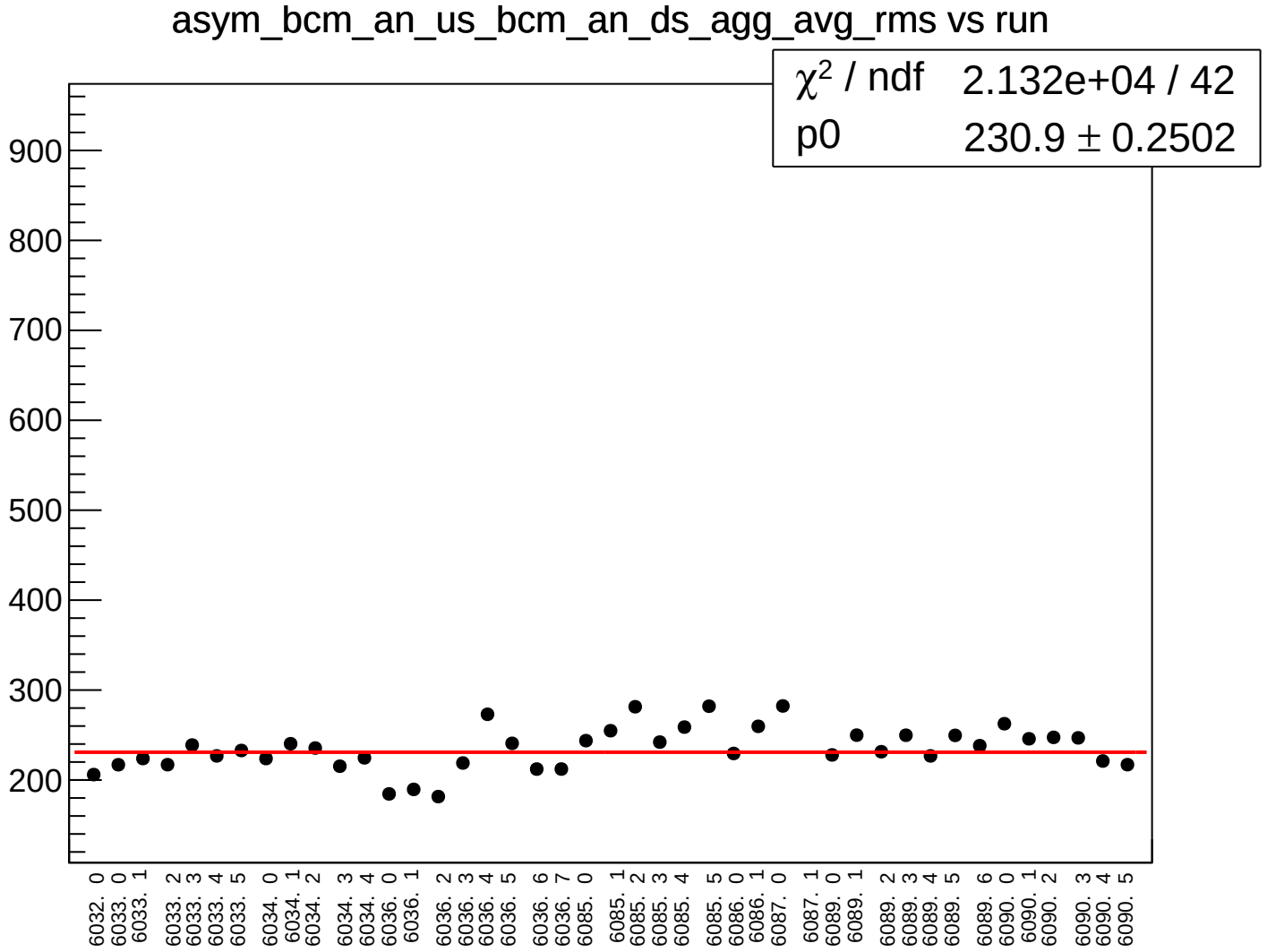

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.172e+04 / 42
p0 0.0001253 ± 1.35e−07
0.22
0.2
0.18
0.16
0.14
0.12
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

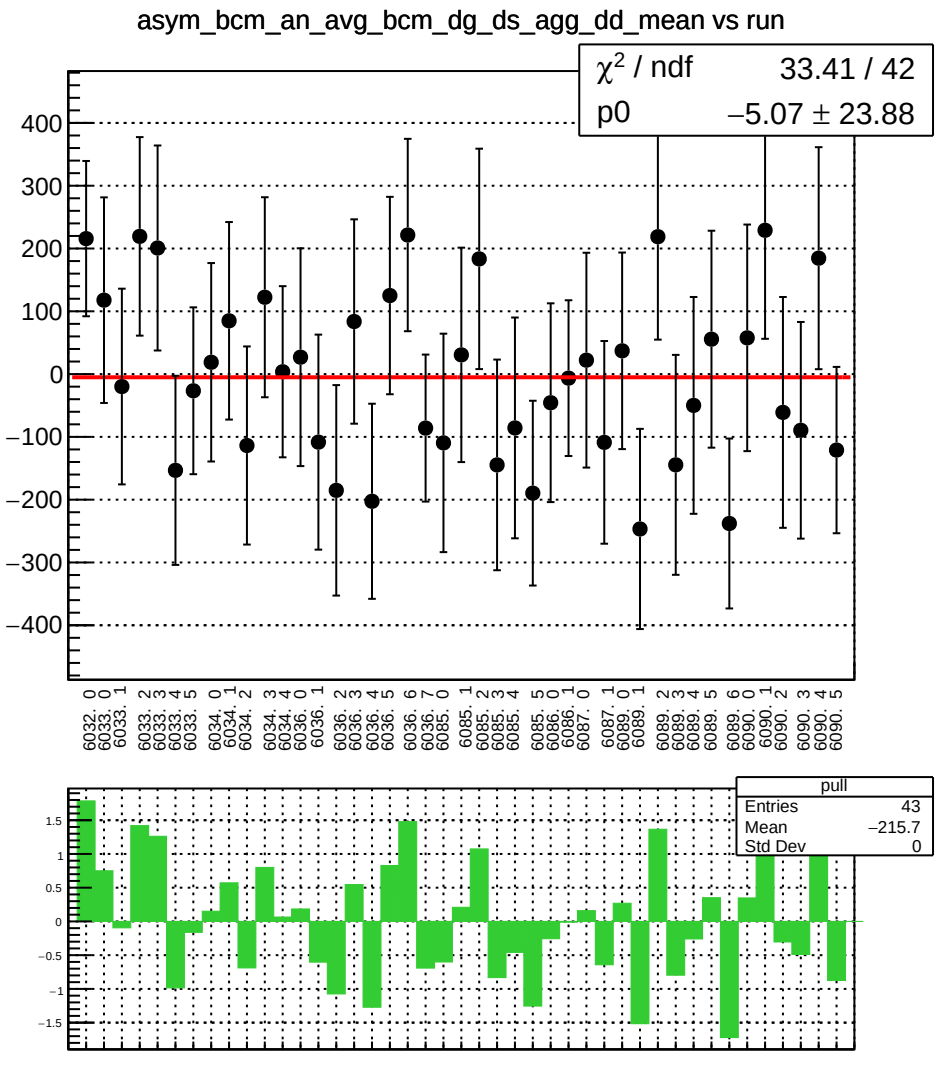

yield_atr2_mean vs run
χ² / ndf 1.046e+06 / 42
p0 0.02588 ± 4.144e–07
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 595.5
Std Dev 0
200
100
0
–100
–200

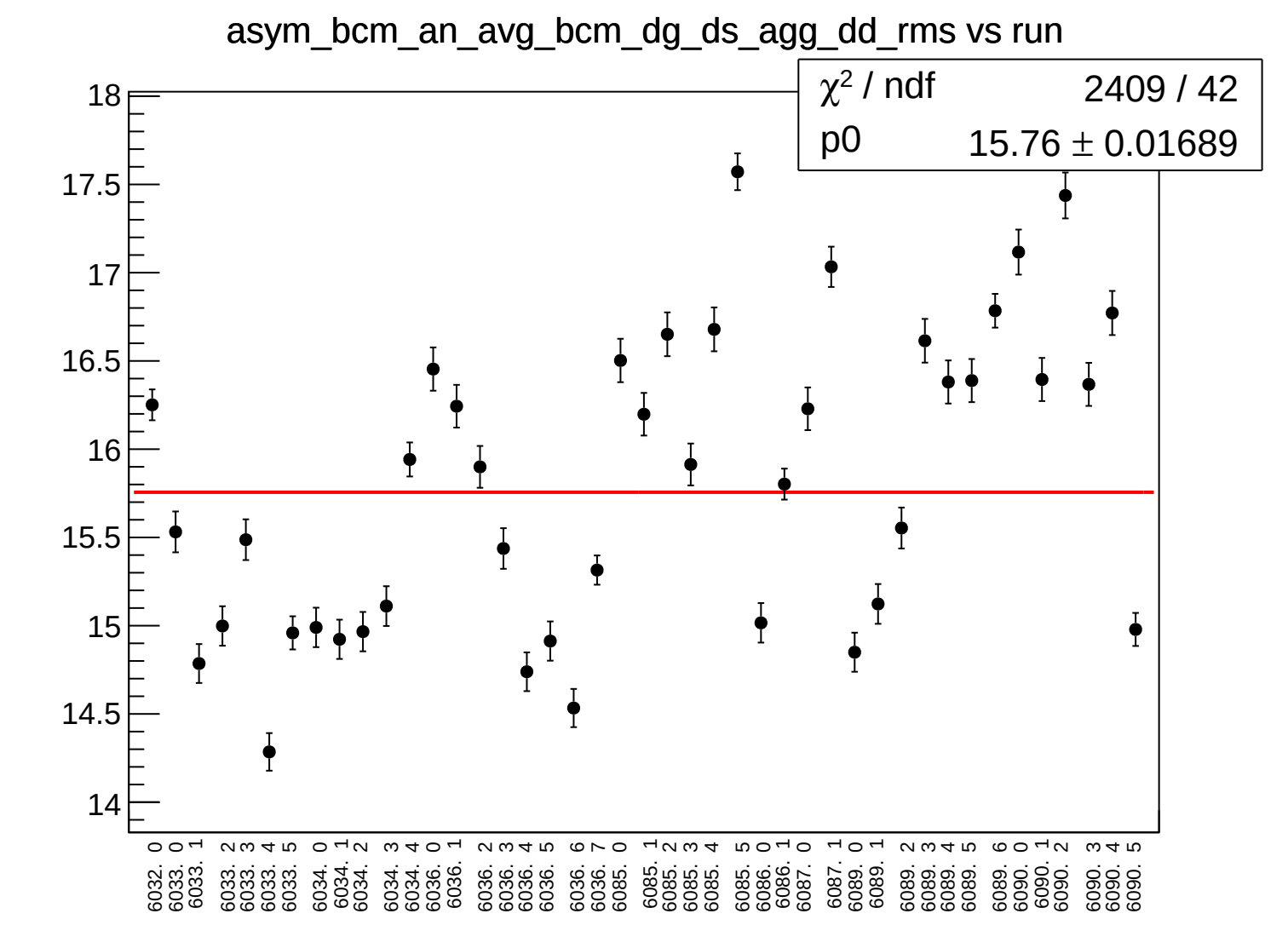

pull1D
Entries 43
Mean 4.641
Std Dev 2.433
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

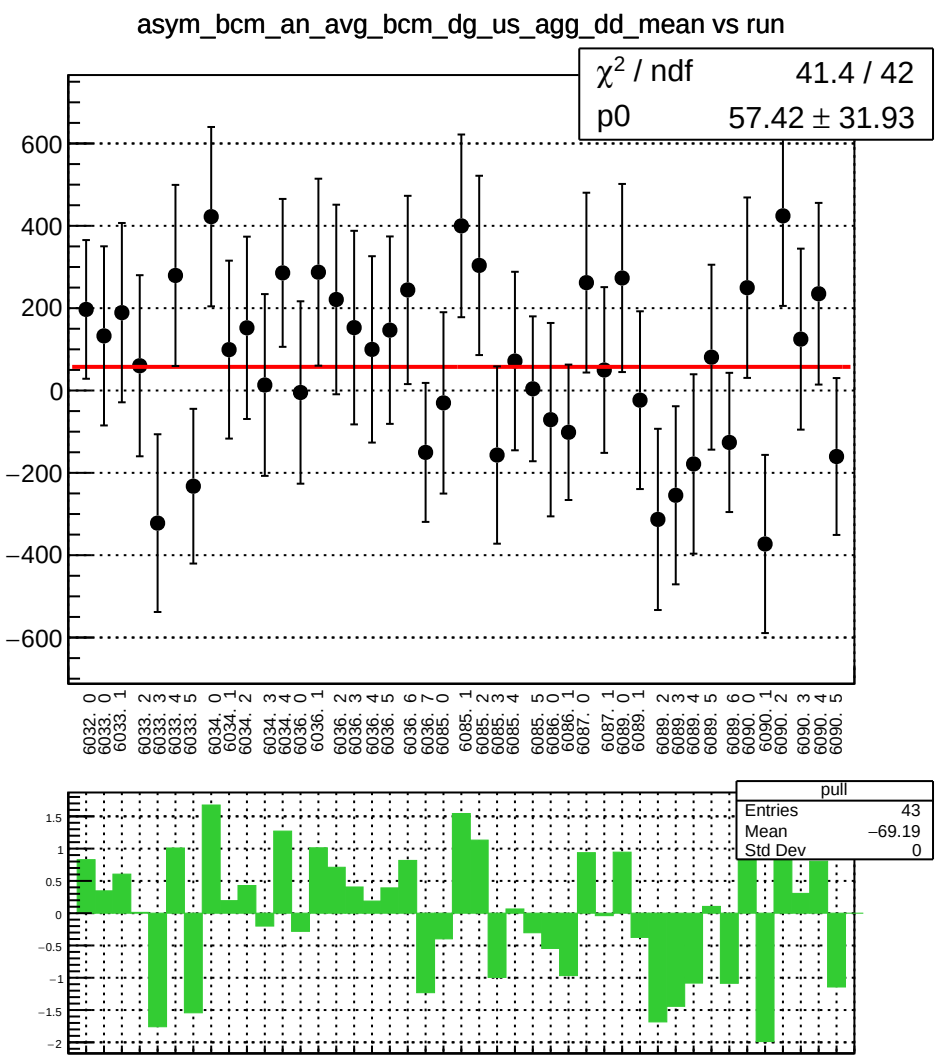

yield_atr2_rms vs run
χ² / ndf 1.247e+05 / 42
p0 0.0002535 ± 2.93e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

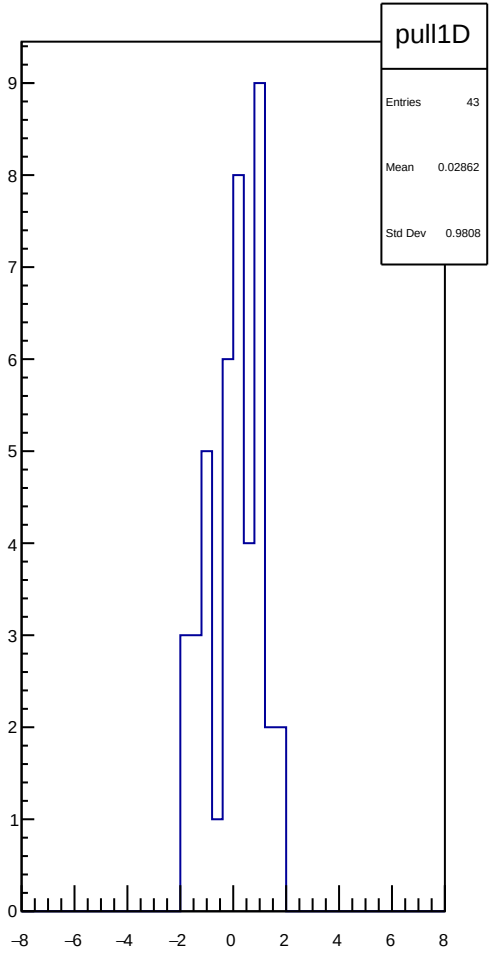

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.11 / 42
p0 371.7 ± 353.8
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 129
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01968
Std Dev 0.5303
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

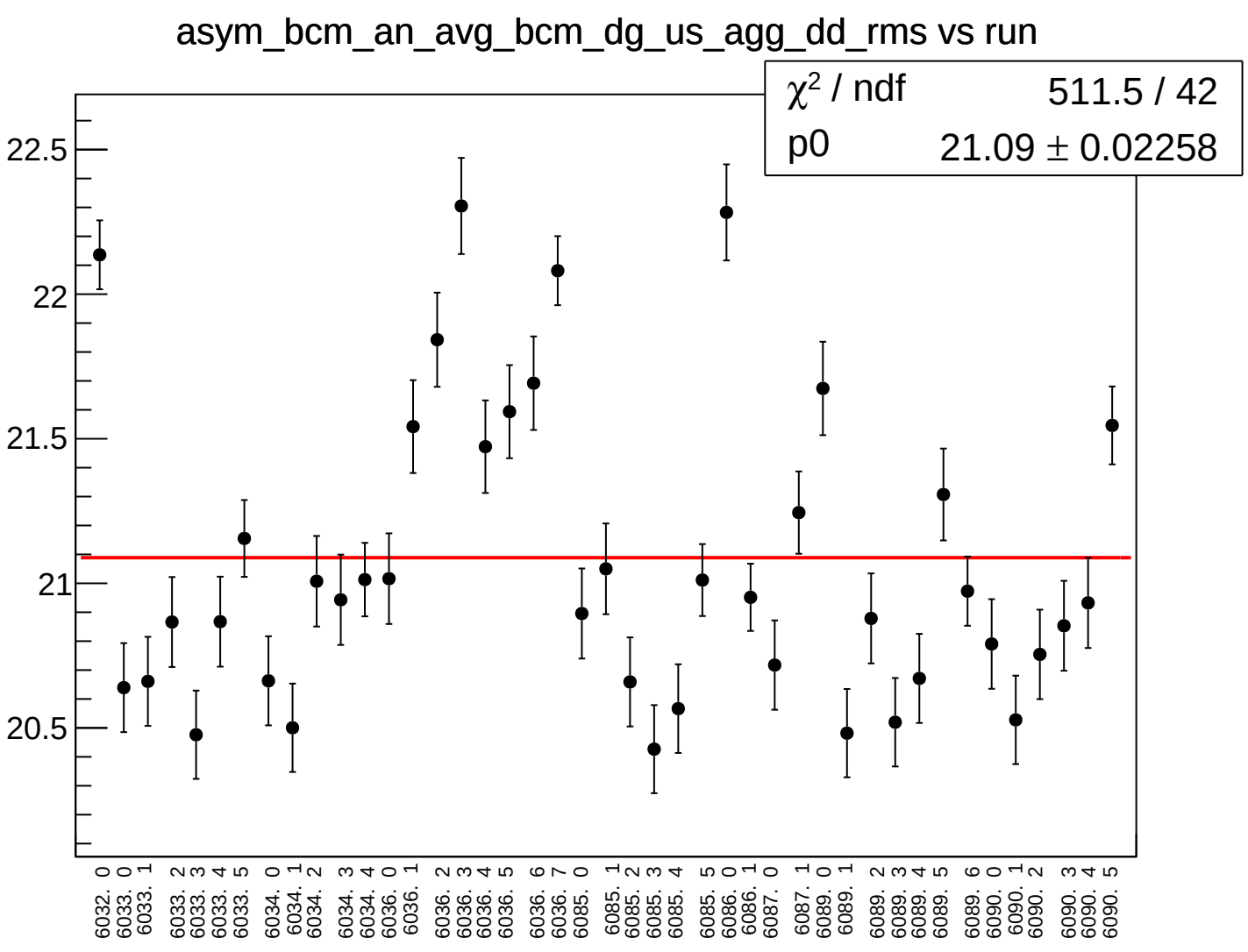

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.132e+04 / 42
p0 230.9 ± 0.2502
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

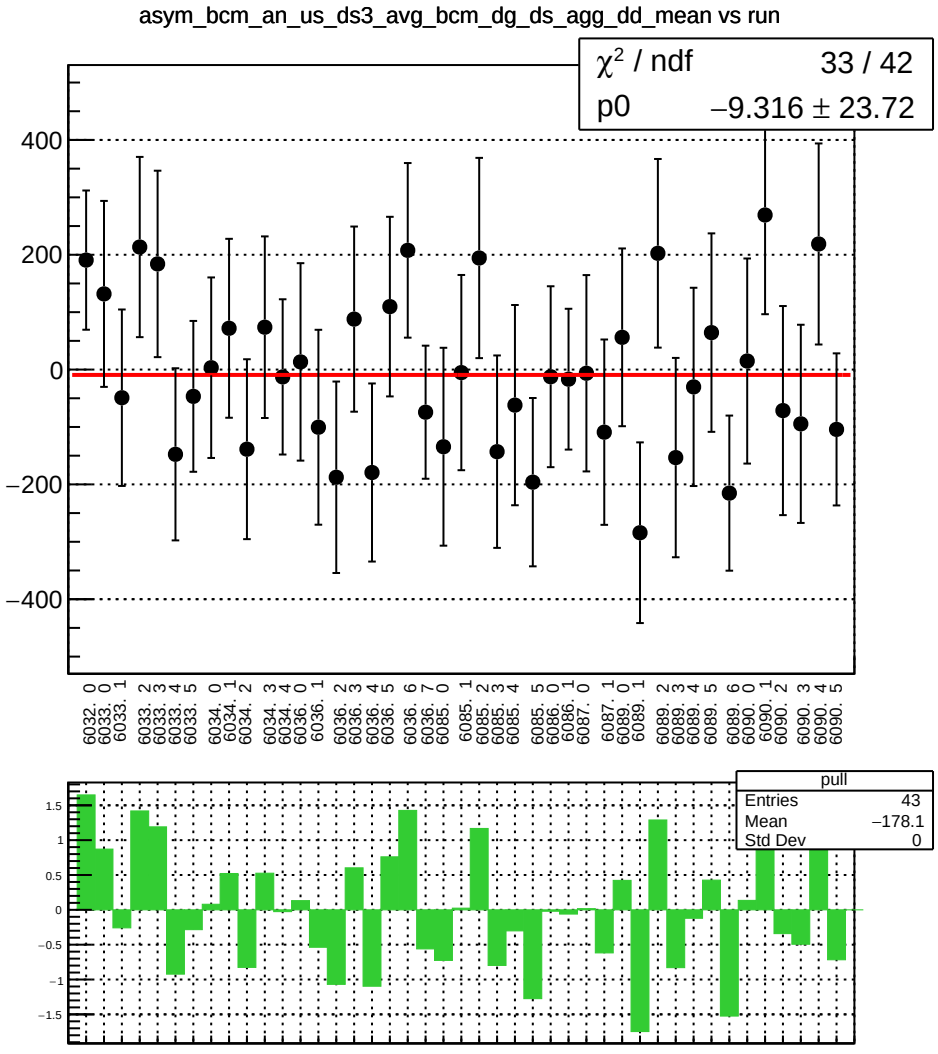

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 33.41 / 42
p0 −5.07 ± 23.88
400
300
200
100
0
−100
−200
−300
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −215.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01071
Std Dev 0.8814
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

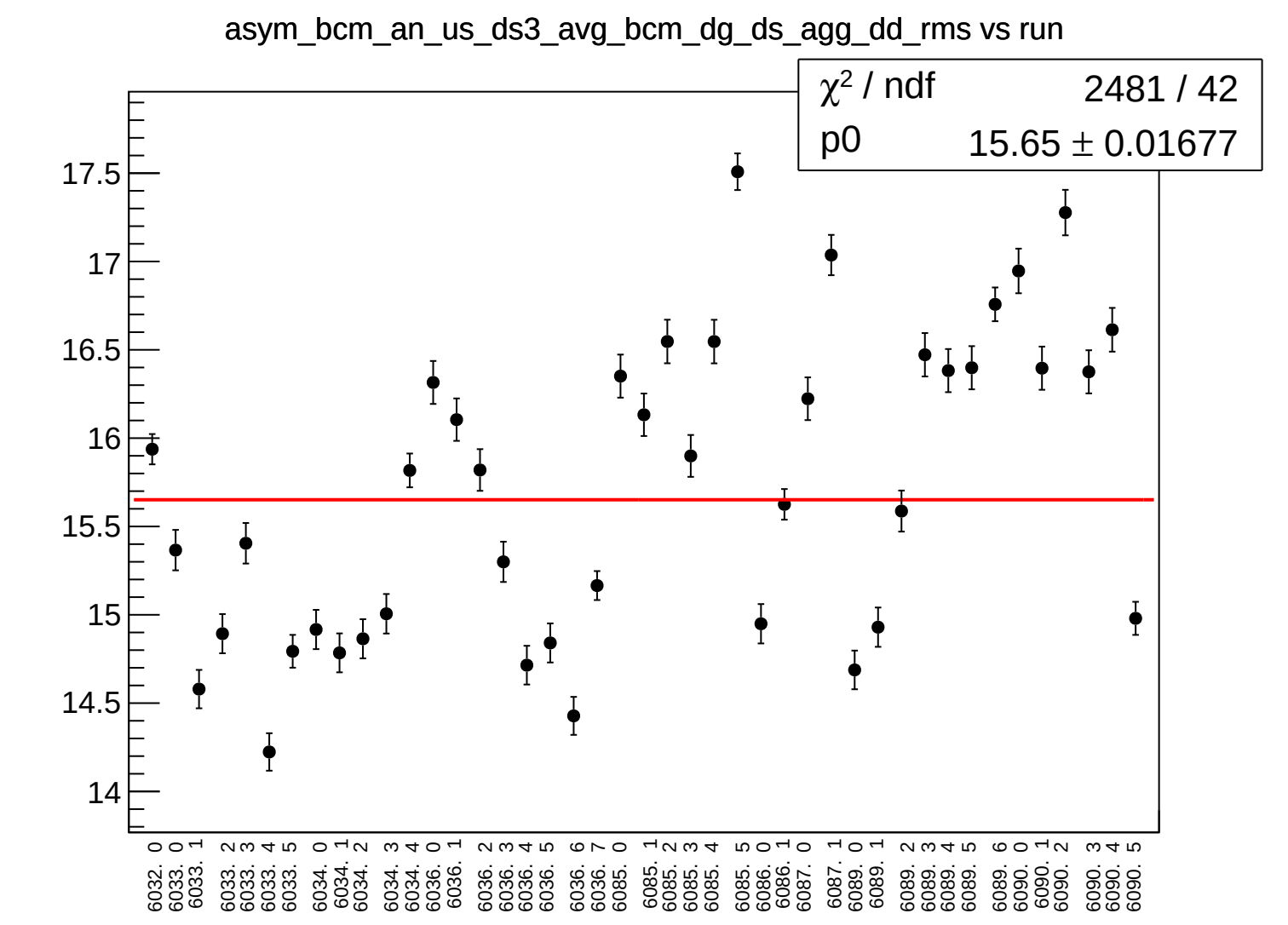

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2409 / 42
p0 15.76 ± 0.01689
18
17.5
17
16.5
16
15.5
15
14.5
14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

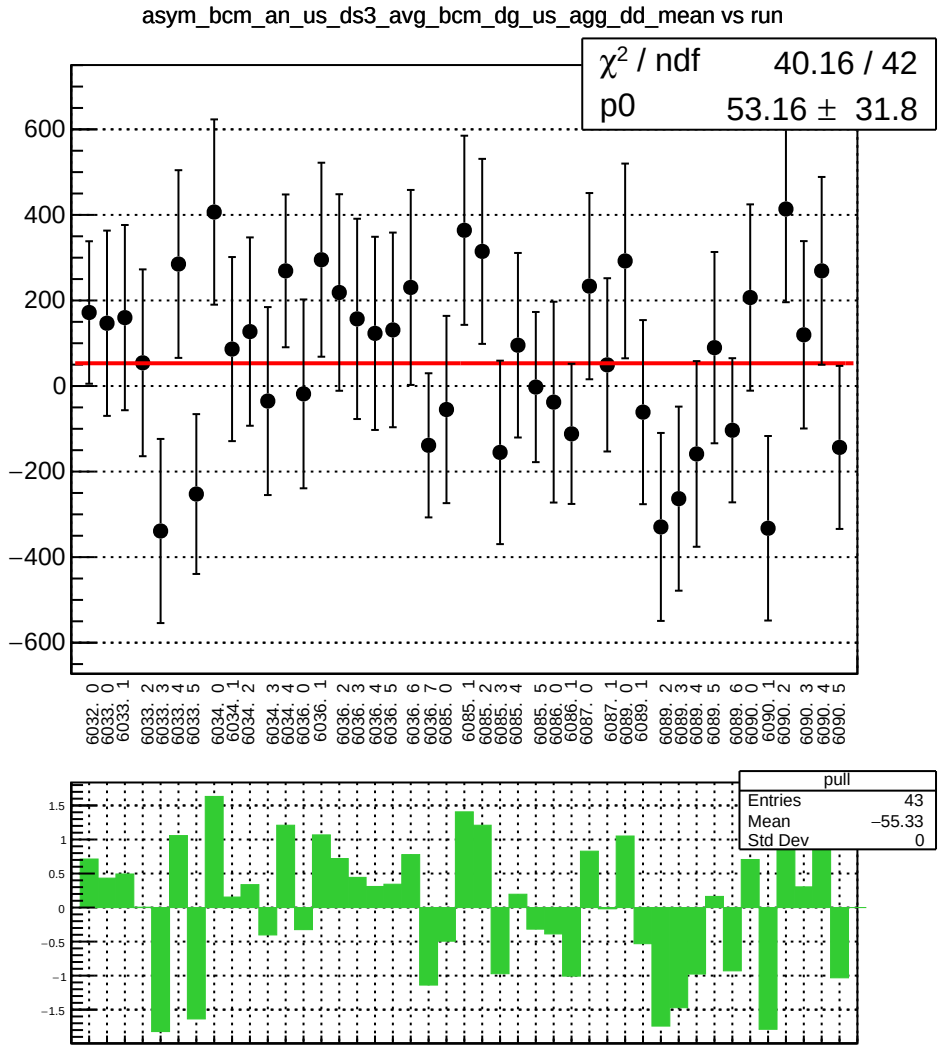

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ^2 / ndf 41.4 / 42
p0 57.42 ± 31.93
600
400
200
0
−200
−400
−600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −69.19
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

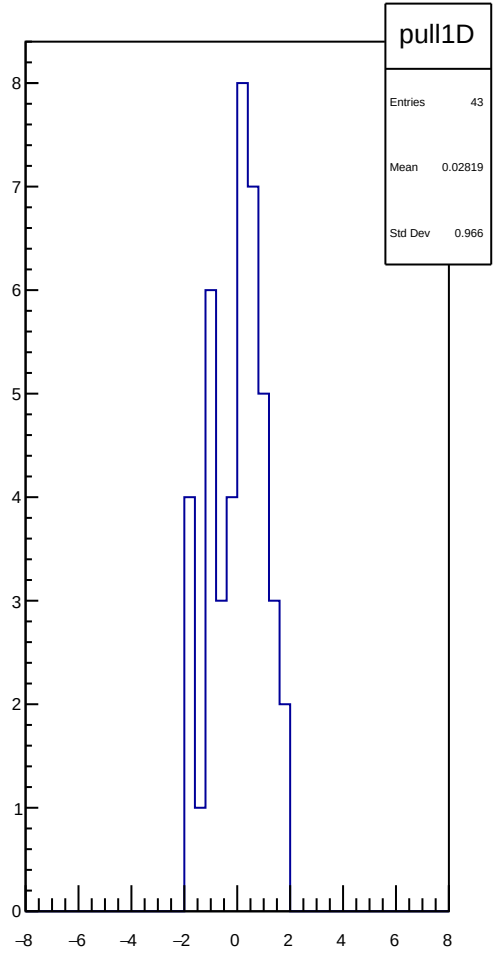

pull1D
Entries 43
Mean 0.02862
Std Dev 0.9808
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

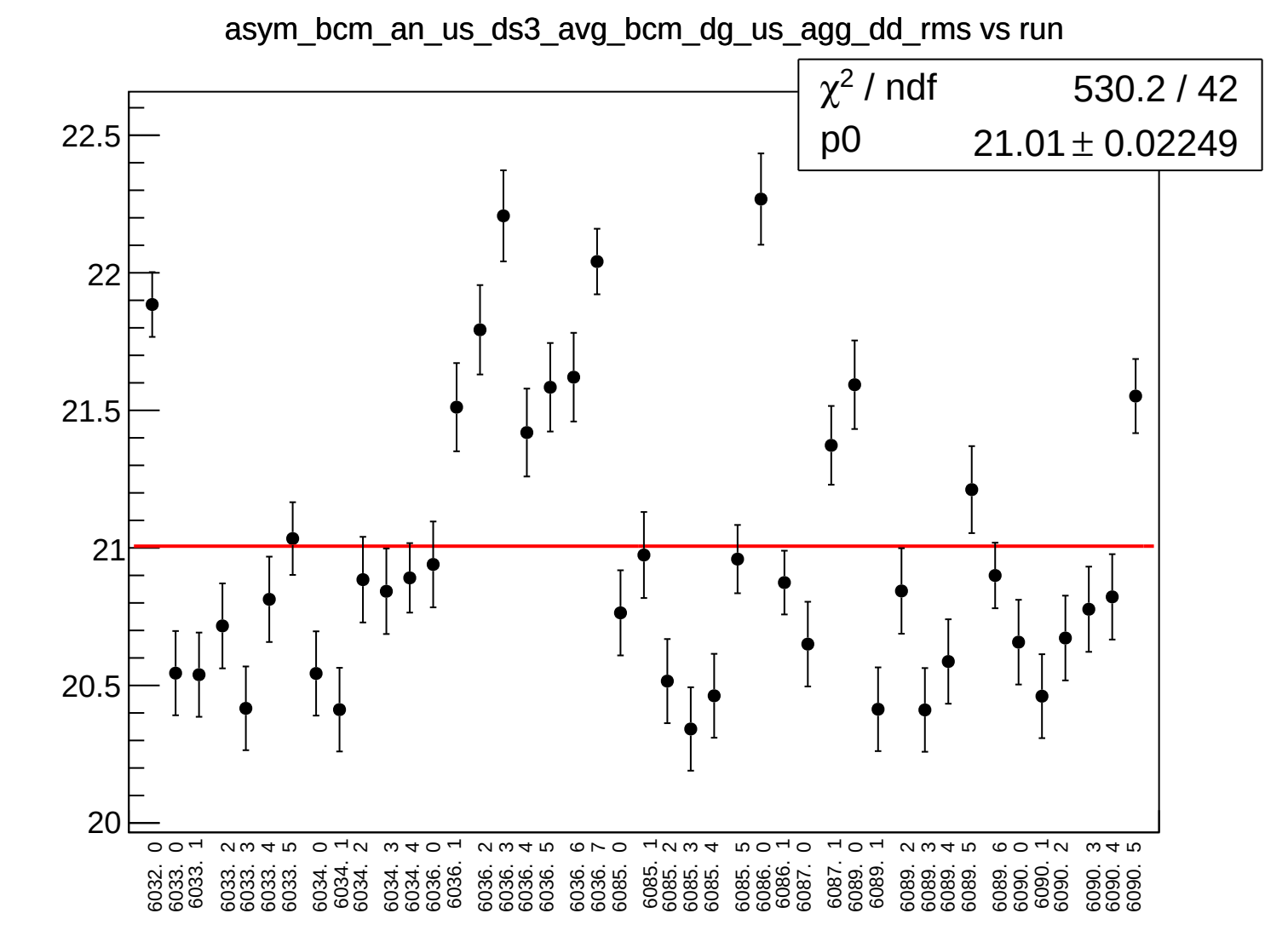

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 511.5 / 42
p0 21.09 ± 0.02258
22.5
22
21.5
21
20.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

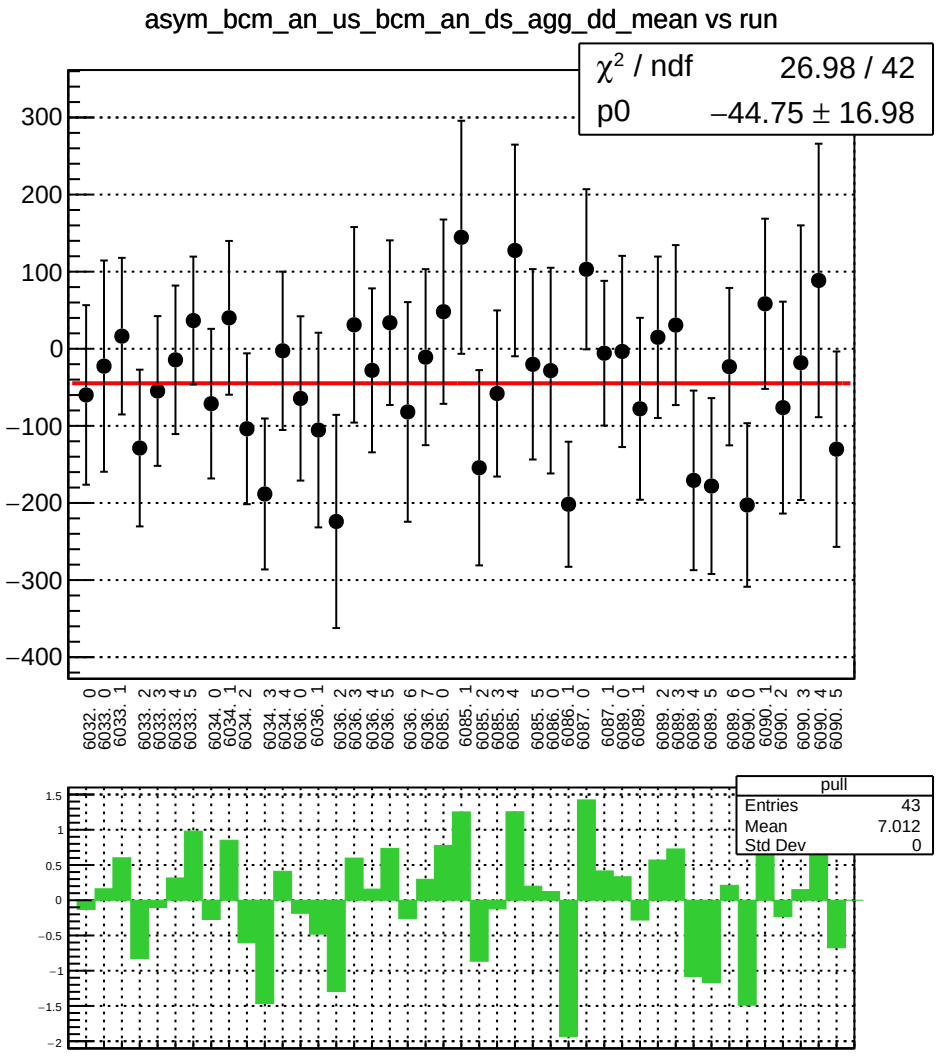

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 33 / 42
p0 −9.316 ± 23.72
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −178.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.009906
Std Dev 0.876
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

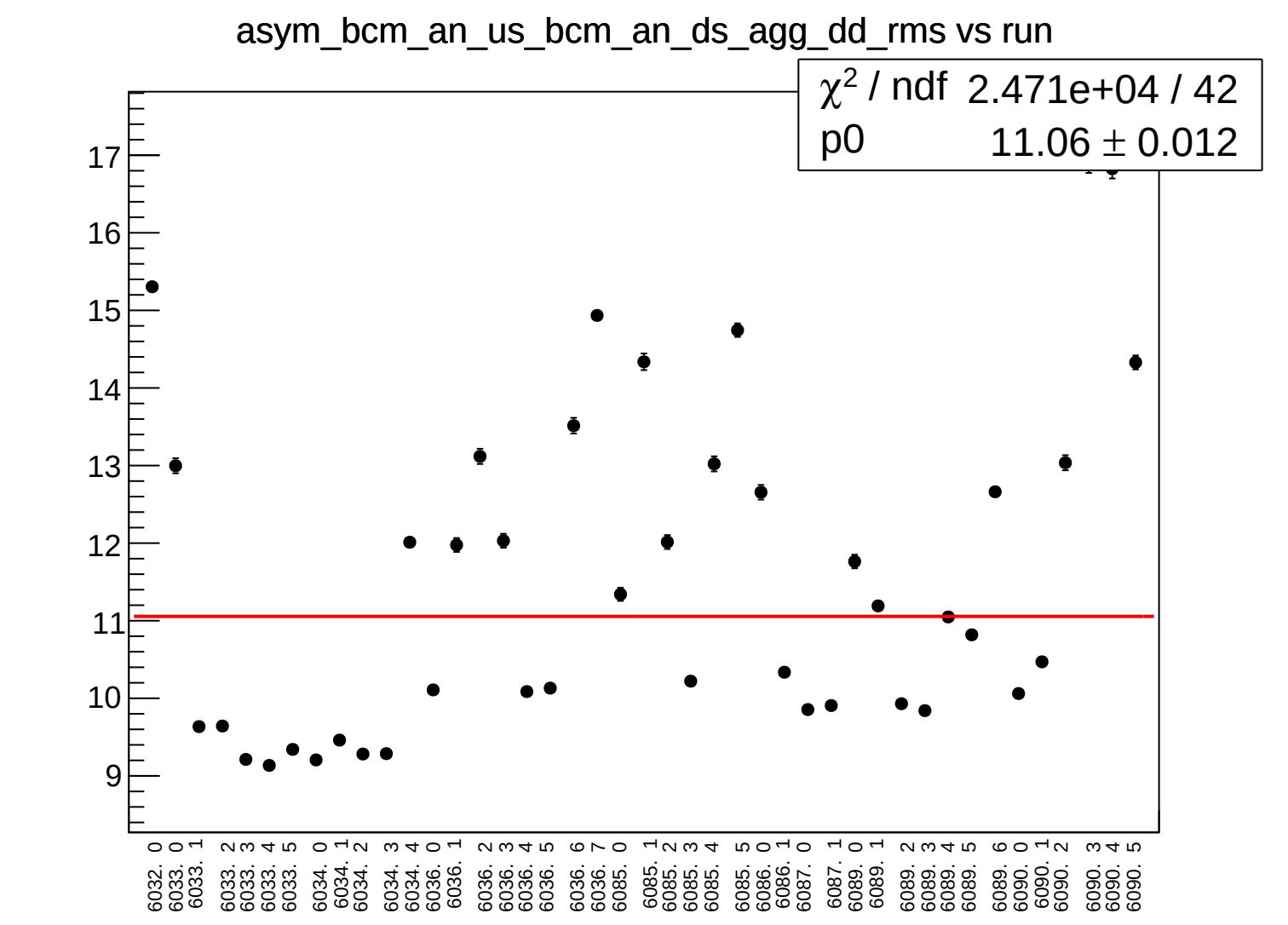

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2481 / 42
p0 15.65 ± 0.01677
17.5
17
16.5
16
15.5
15
14.5
14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

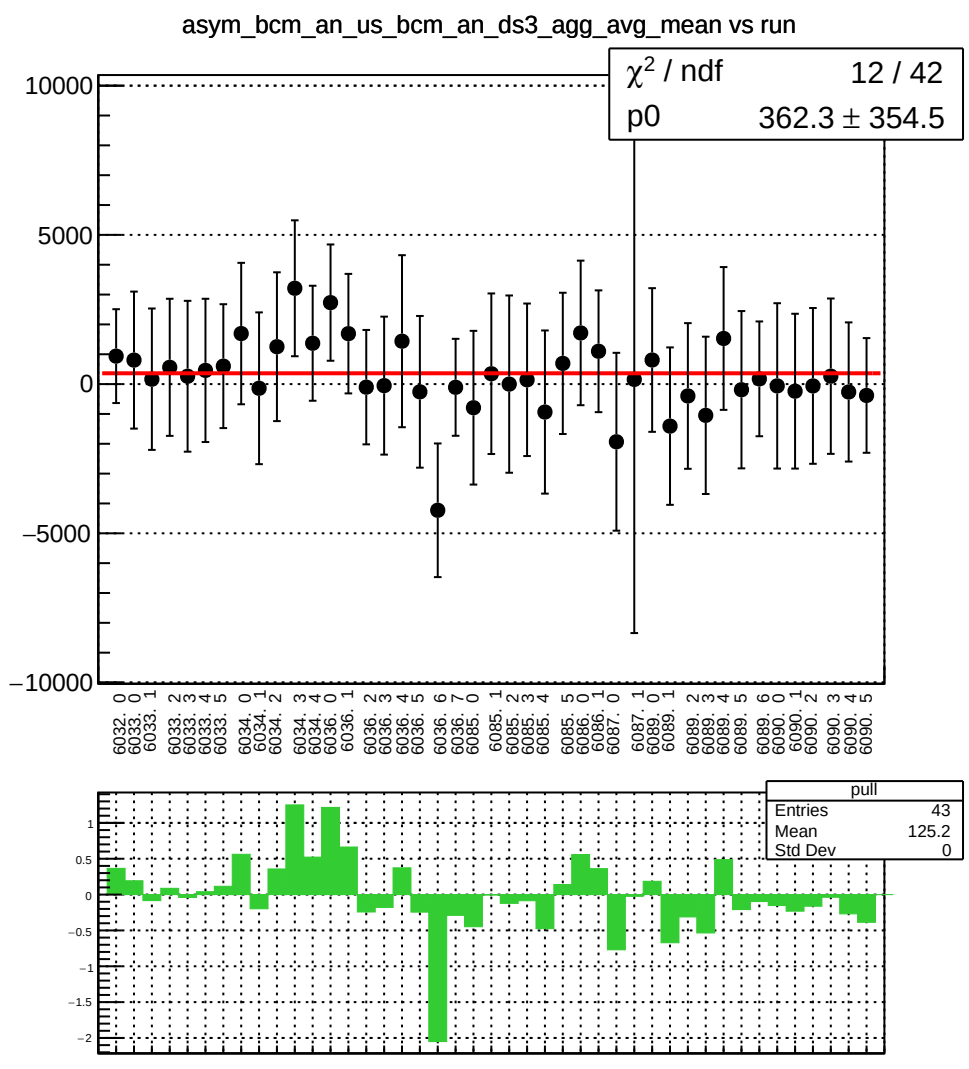

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 40.16 / 42
p0 53.16 ± 31.8
600
400
200
0
−200
−400
−600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −55.33
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

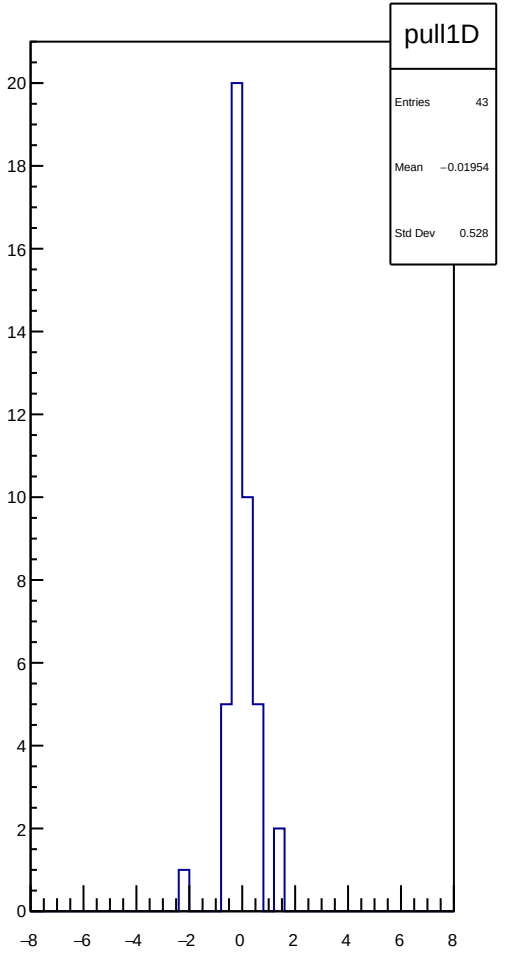

pull1D
Entries 43
Mean 0.02819
Std Dev 0.966
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

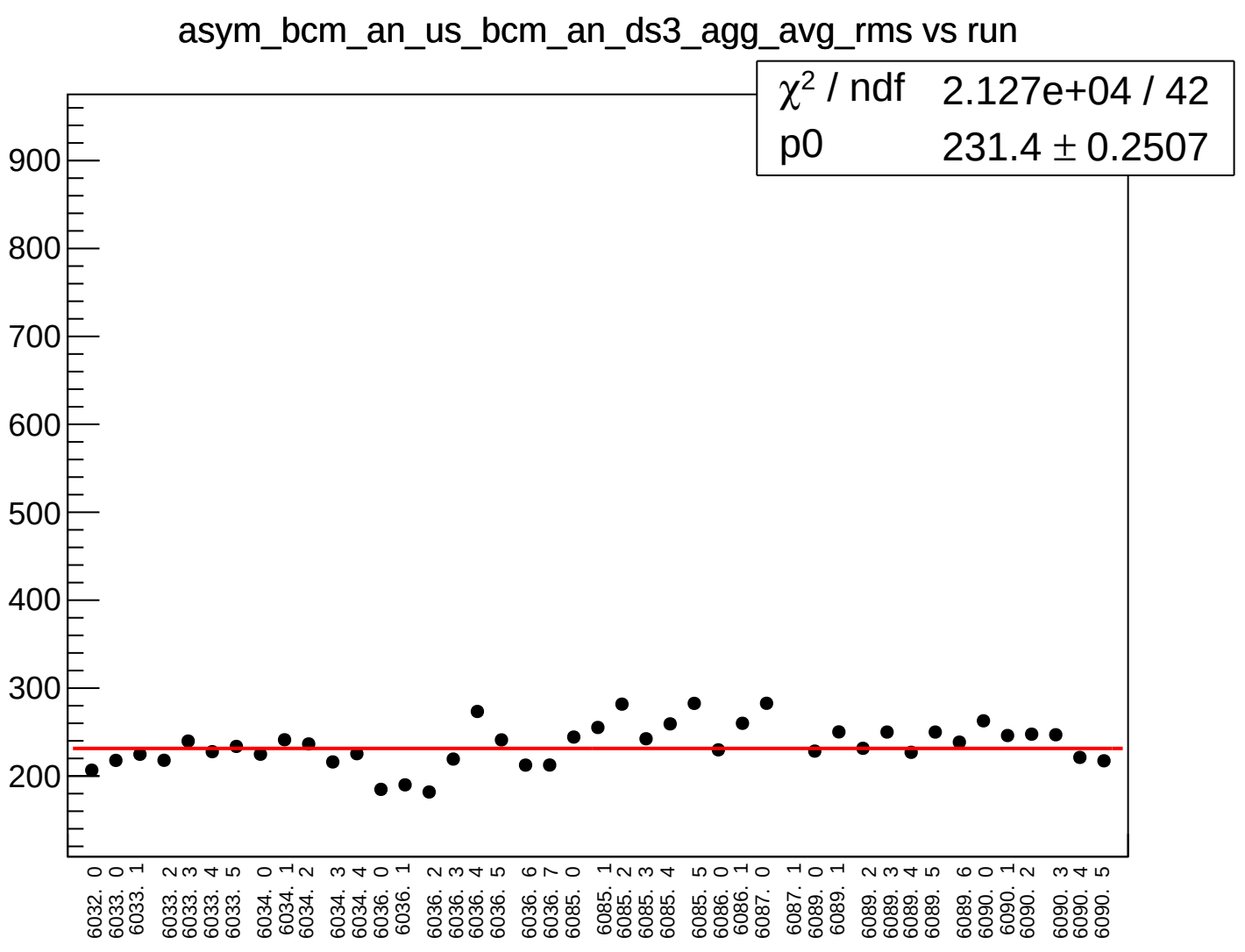

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 530.2 / 42
p0 21.01 ± 0.02249
22.5
22
21.5
21
20.5
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

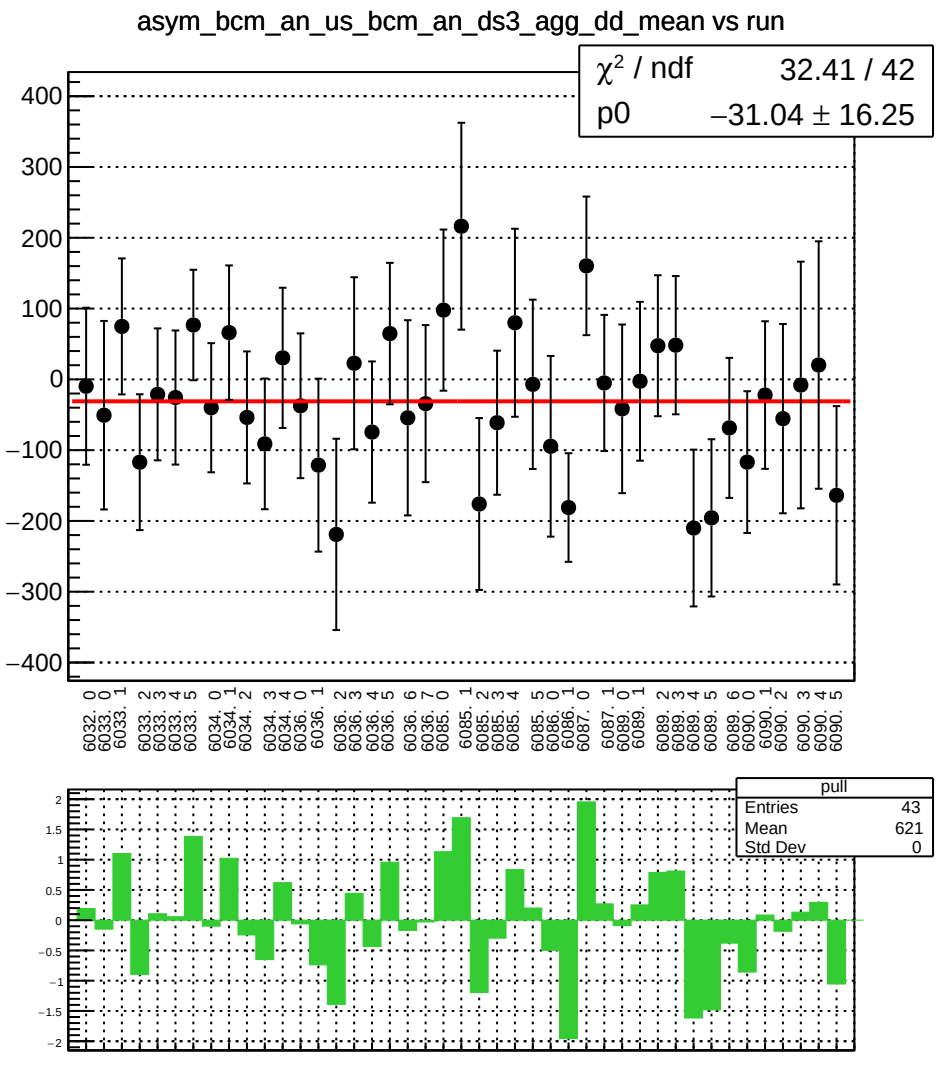

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 26.98 / 42
p0 −44.75 ± 16.98
pull
Entries 43
Mean 7.012
Std Dev 0
pull1D
Entries 43
Mean 0.01772
Std Dev 0.7919

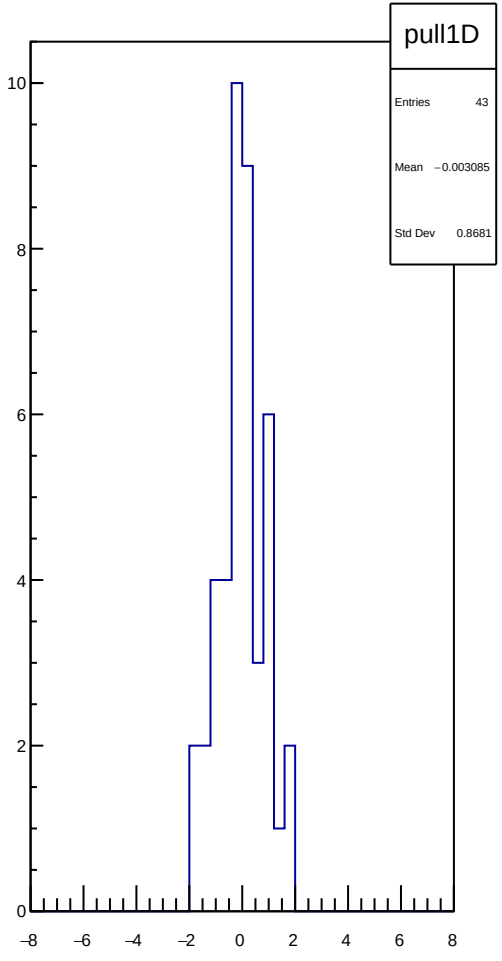

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.471e+04 / 42
p0 11.06 ± 0.012
17
16
15
14
13
12
11
10
9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

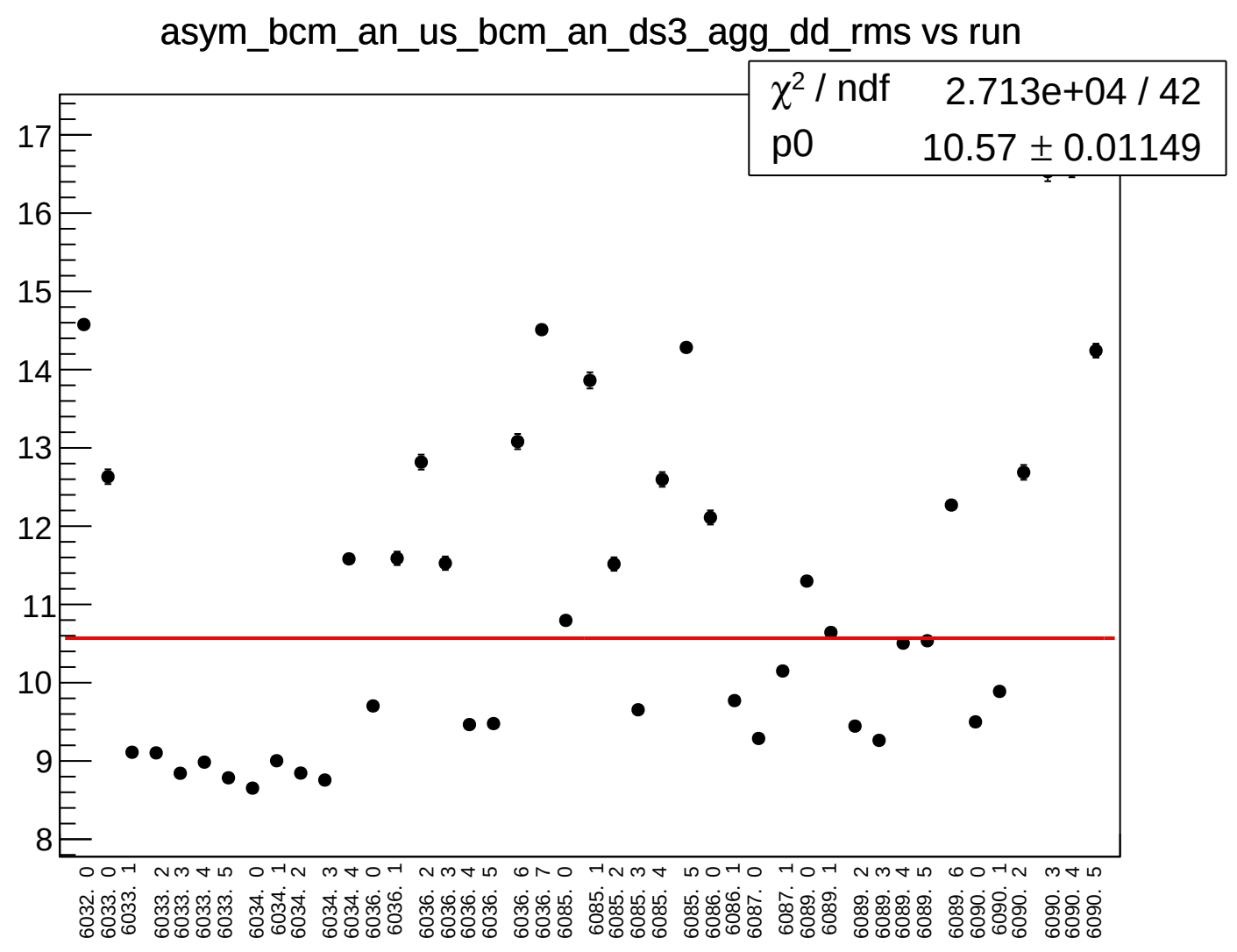

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12 / 42
p0 362.3 ± 354.5
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 125.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

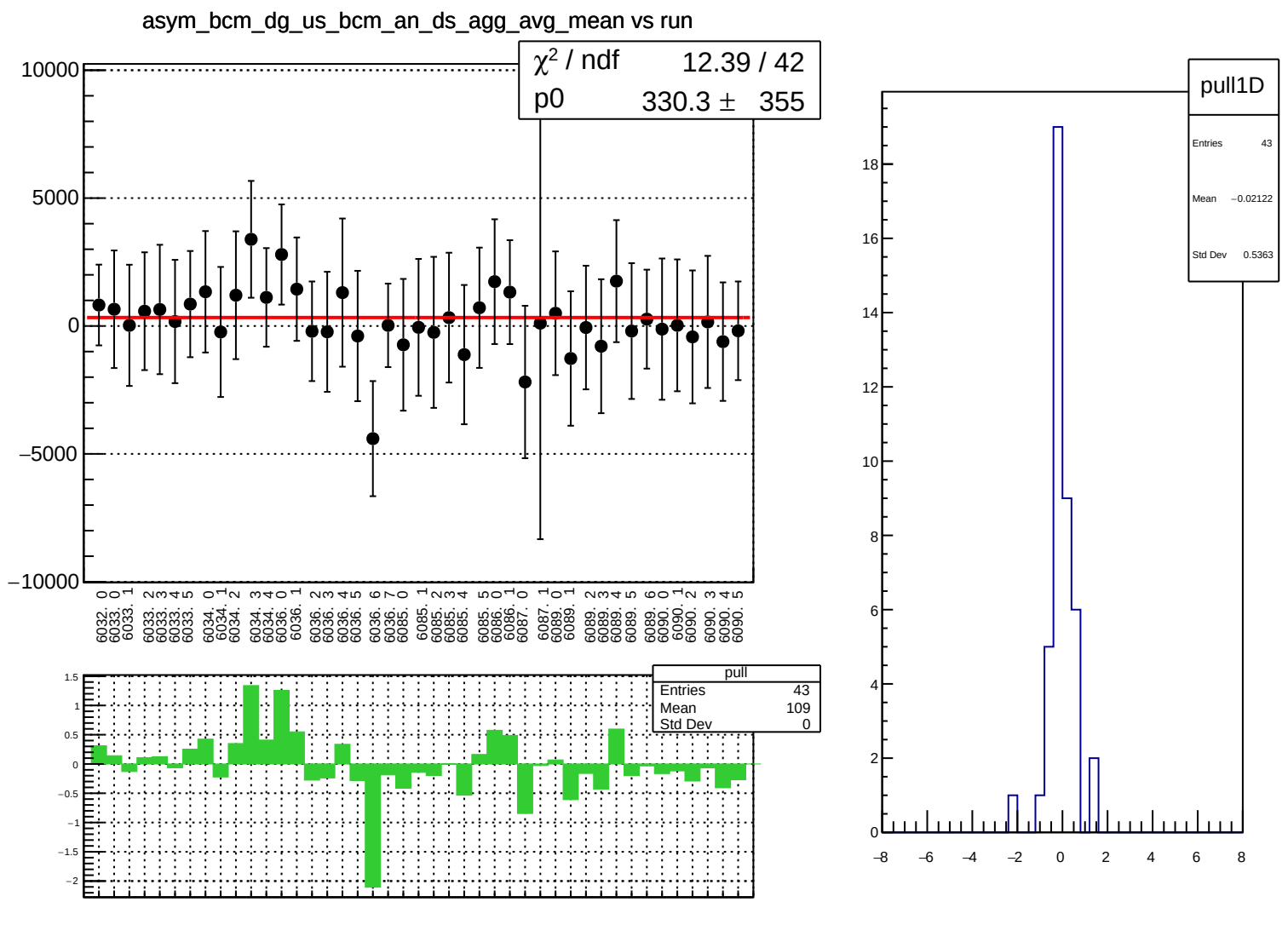

pull1D
Entries 43
Mean −0.01954
Std Dev 0.528
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

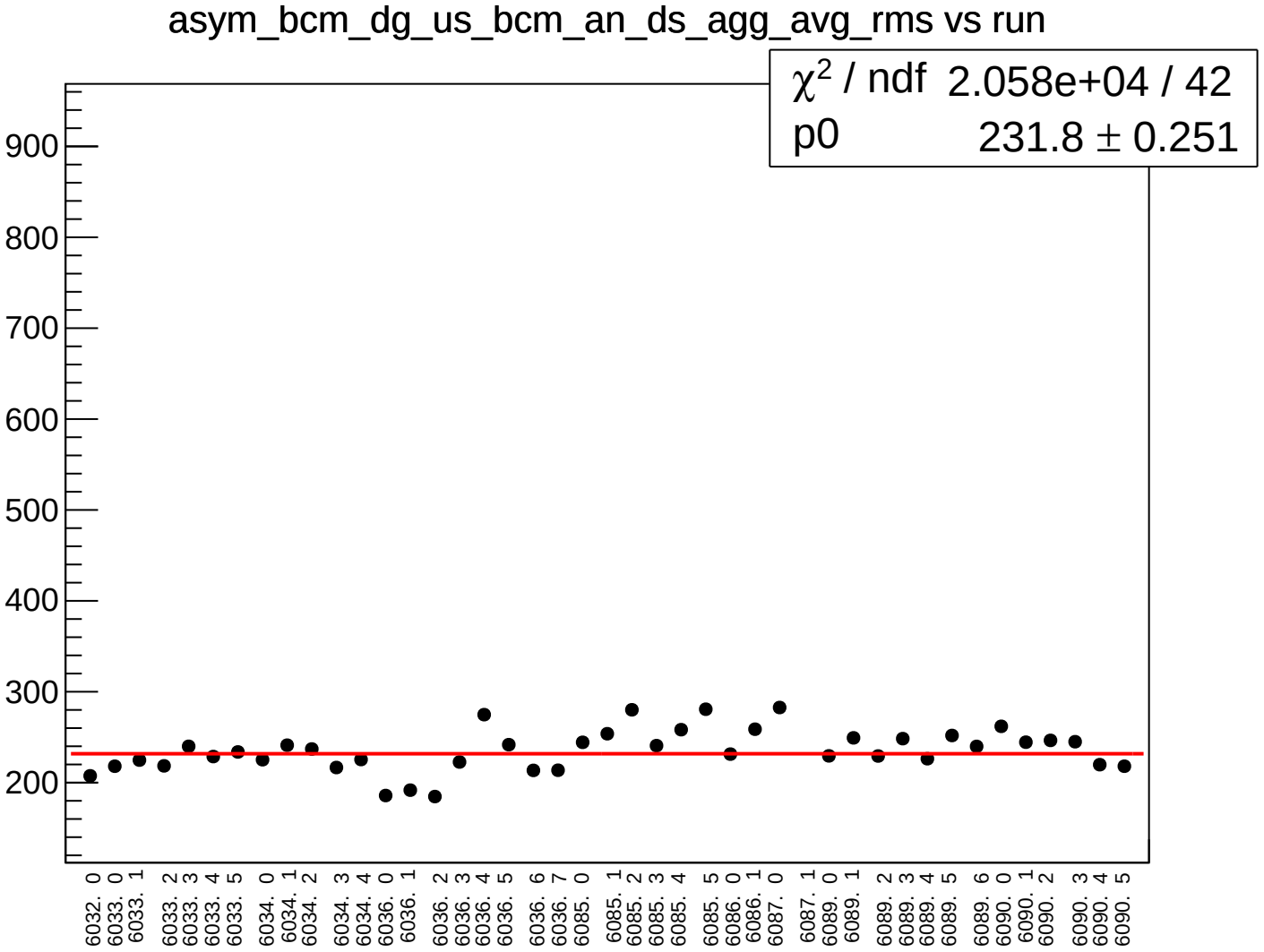

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.127e+04 / 42
p0 231.4 ± 0.2507
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

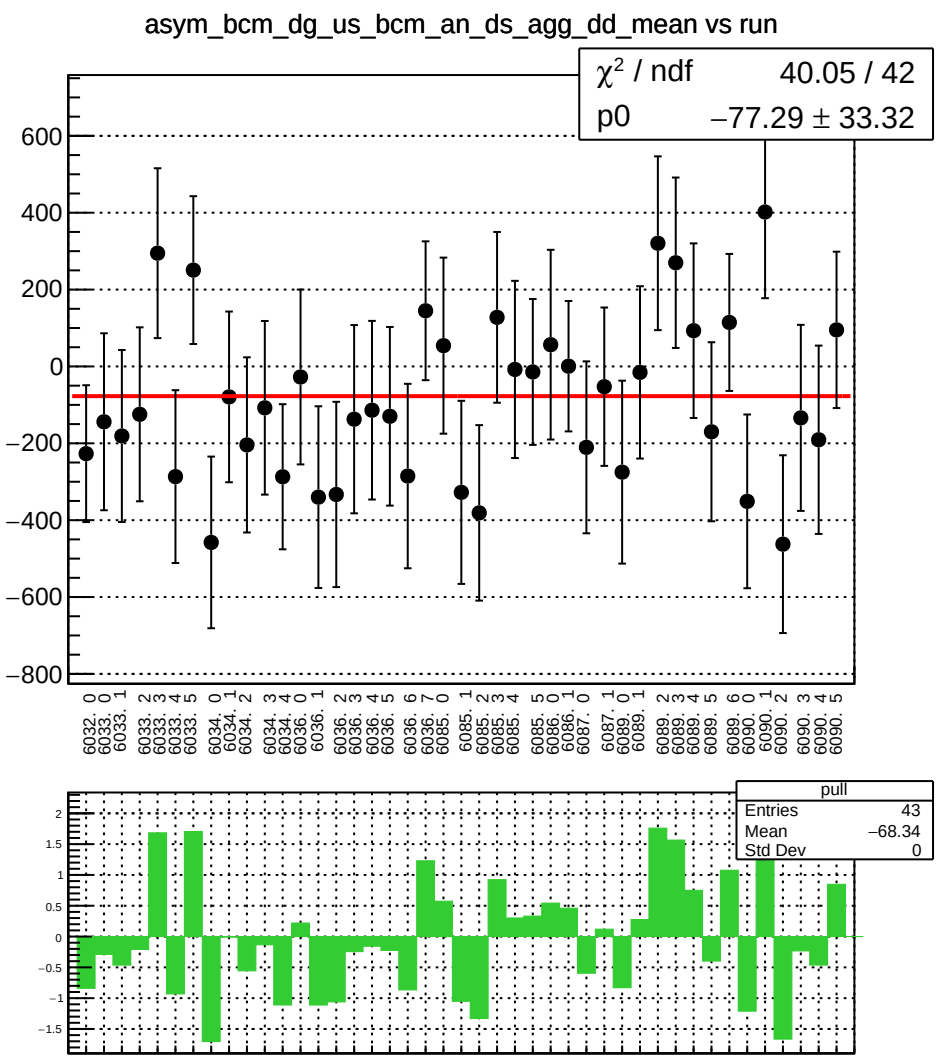

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 32.41 / 42
p0 −31.04 ± 16.25
pull
Entries 43
Mean 621
Std Dev 0

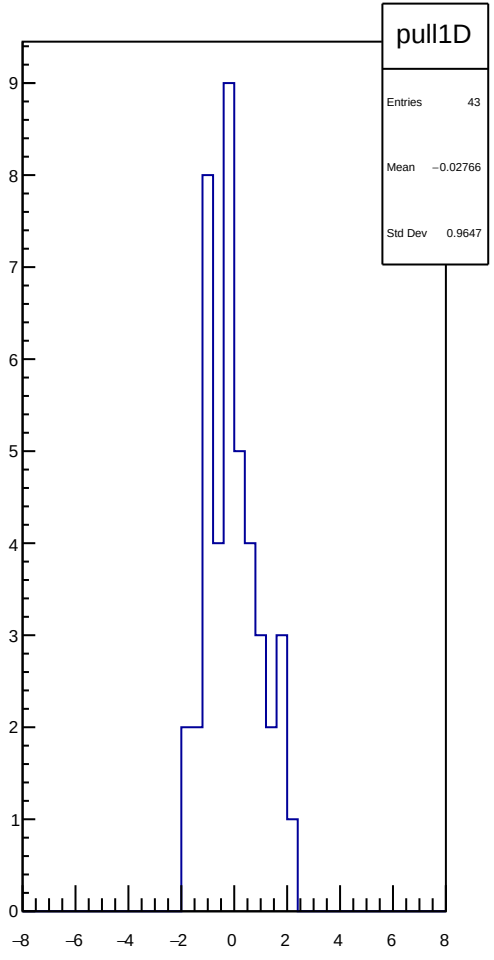

pull1D
Entries 43
Mean −0.003085
Std Dev 0.8681

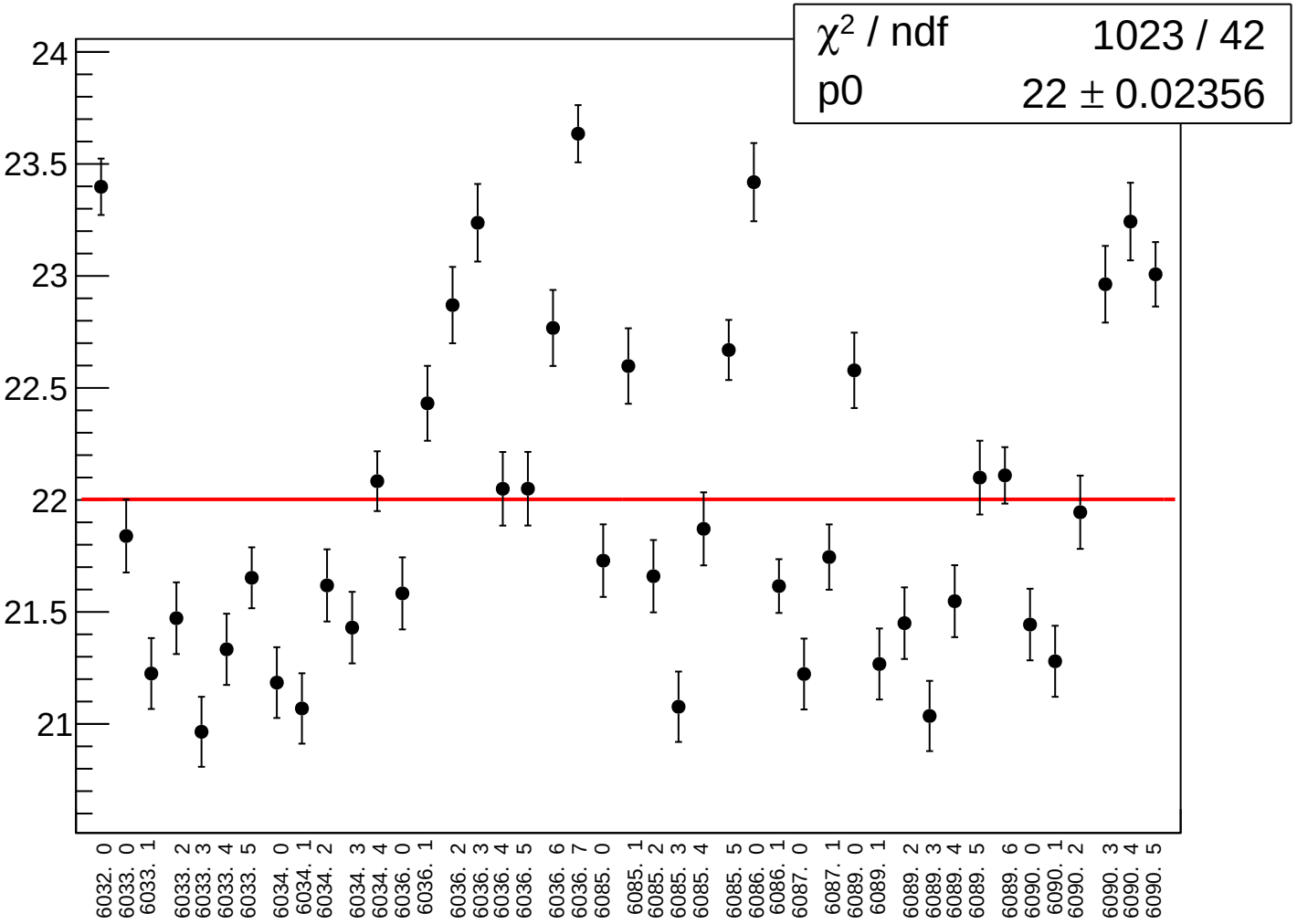

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.713e+04 / 42
p0 10.57 ± 0.01149
17
16
15
14
13
12
11
10
9
8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

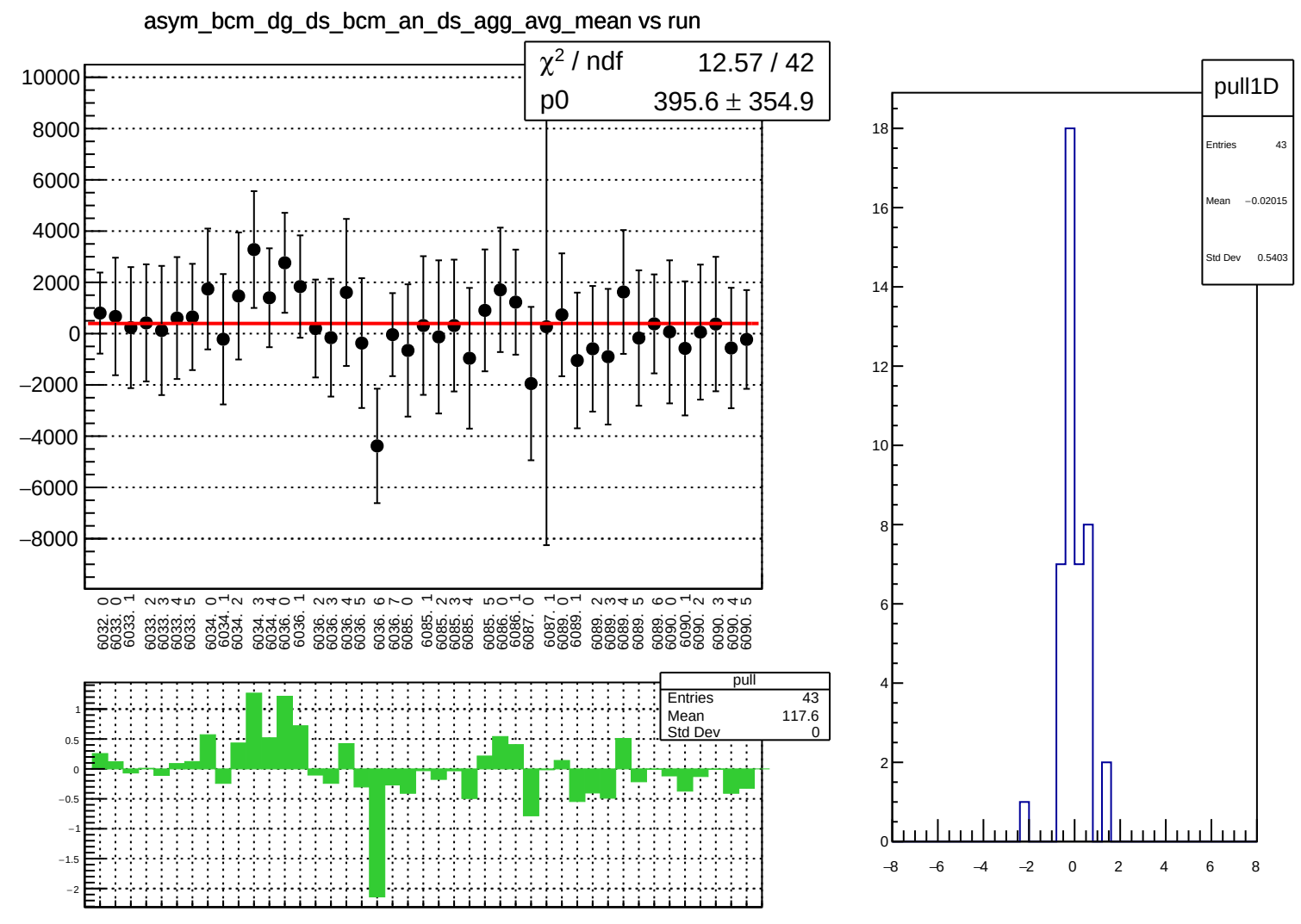

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.39 / 42
p0 330.3 ± 355
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 109
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02122
Std Dev 0.5363
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

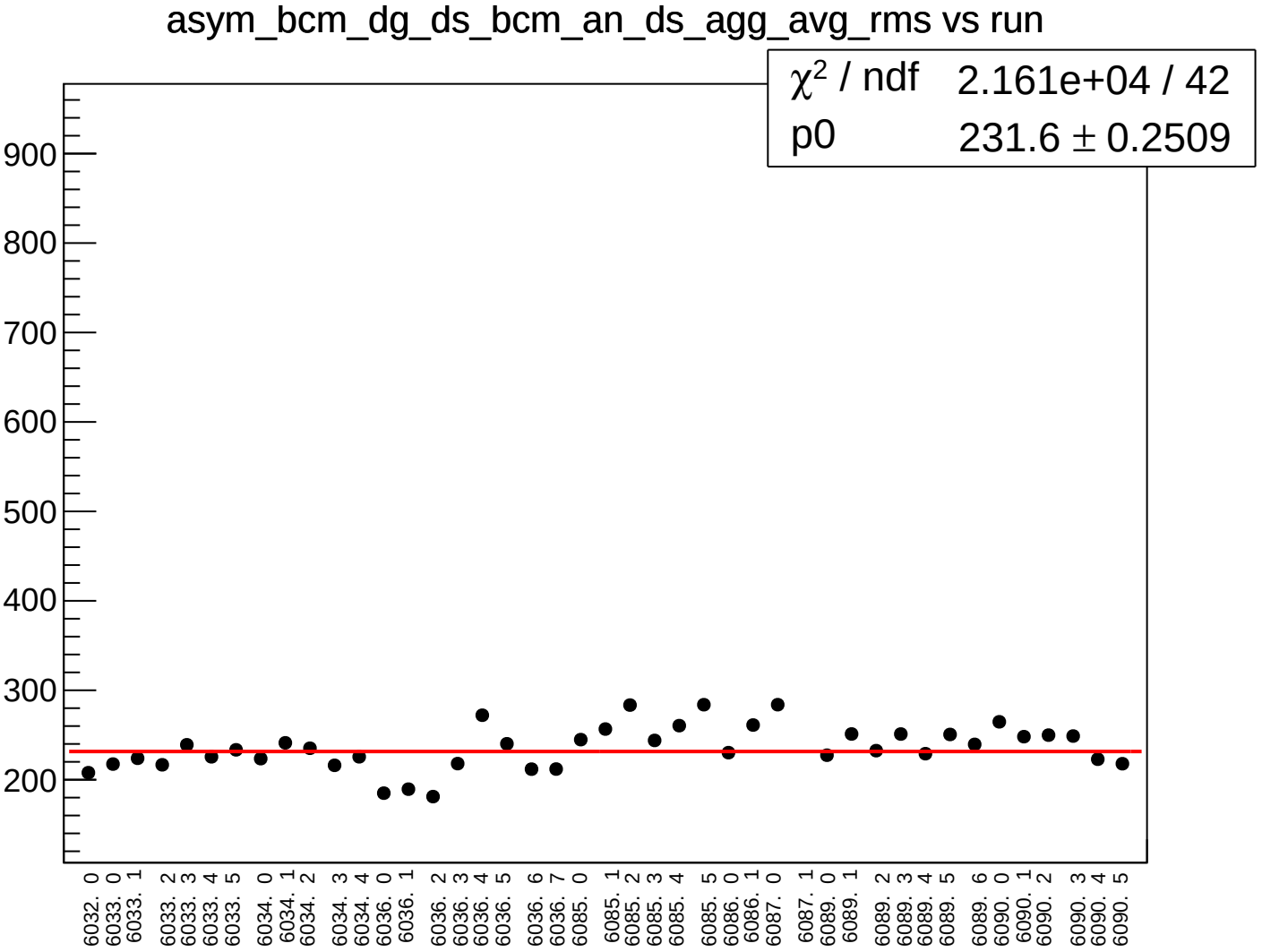

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.058e+04 / 42
p0 231.8 ± 0.251
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

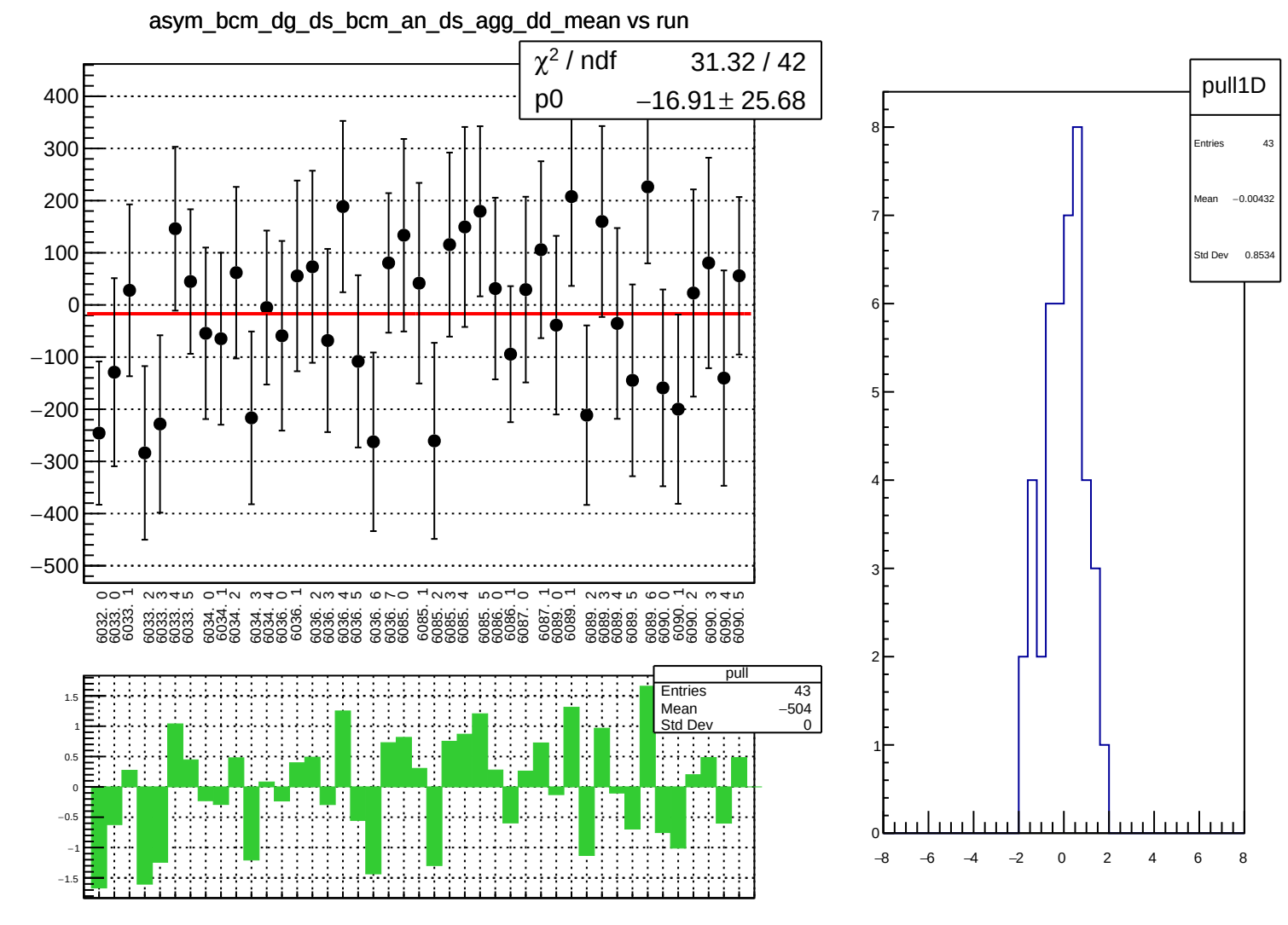

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 40.05 / 42
p0 −77.29 ± 33.32
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −68.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

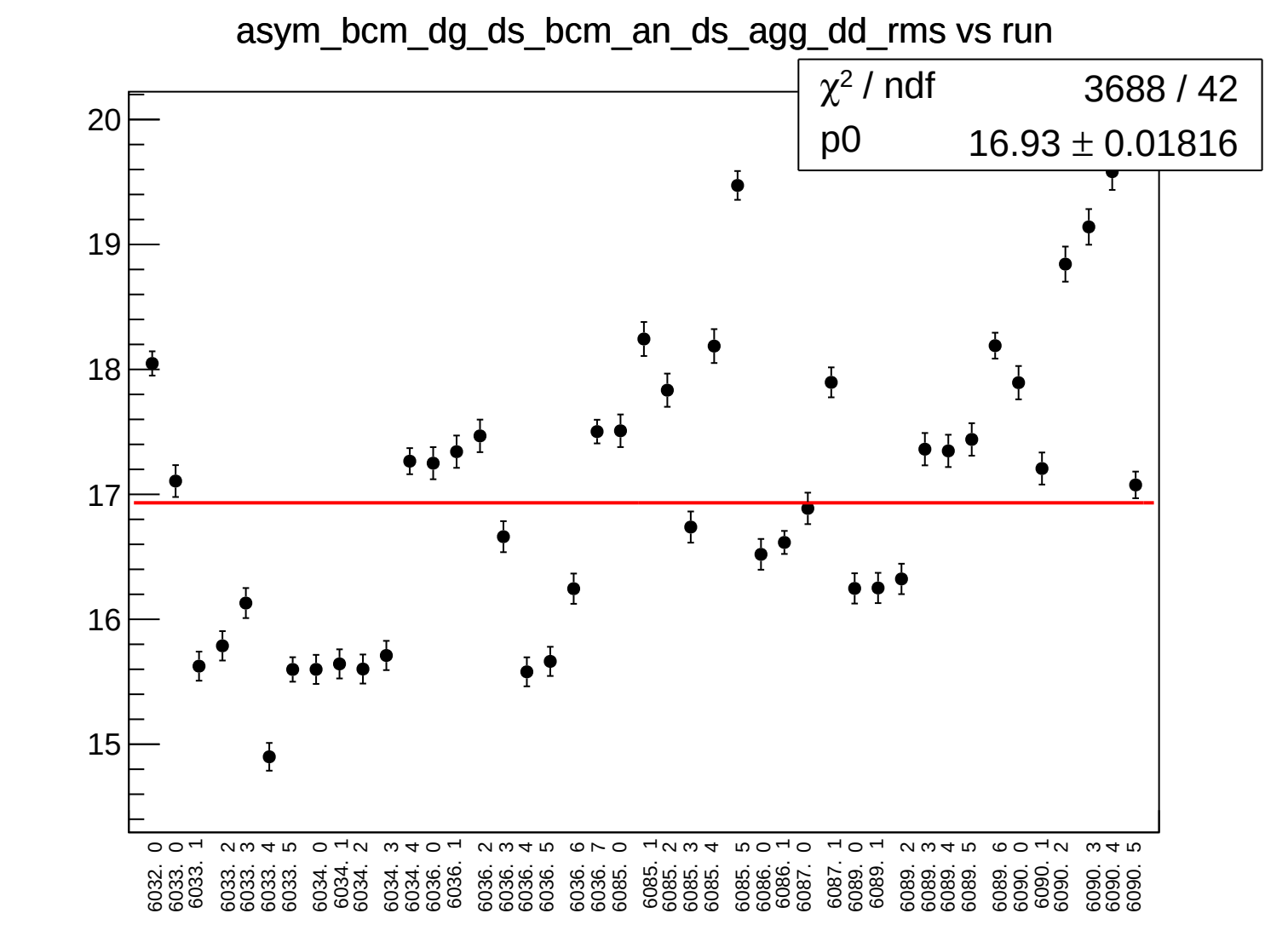

pull1D
Entries 43
Mean −0.02766
Std Dev 0.9647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

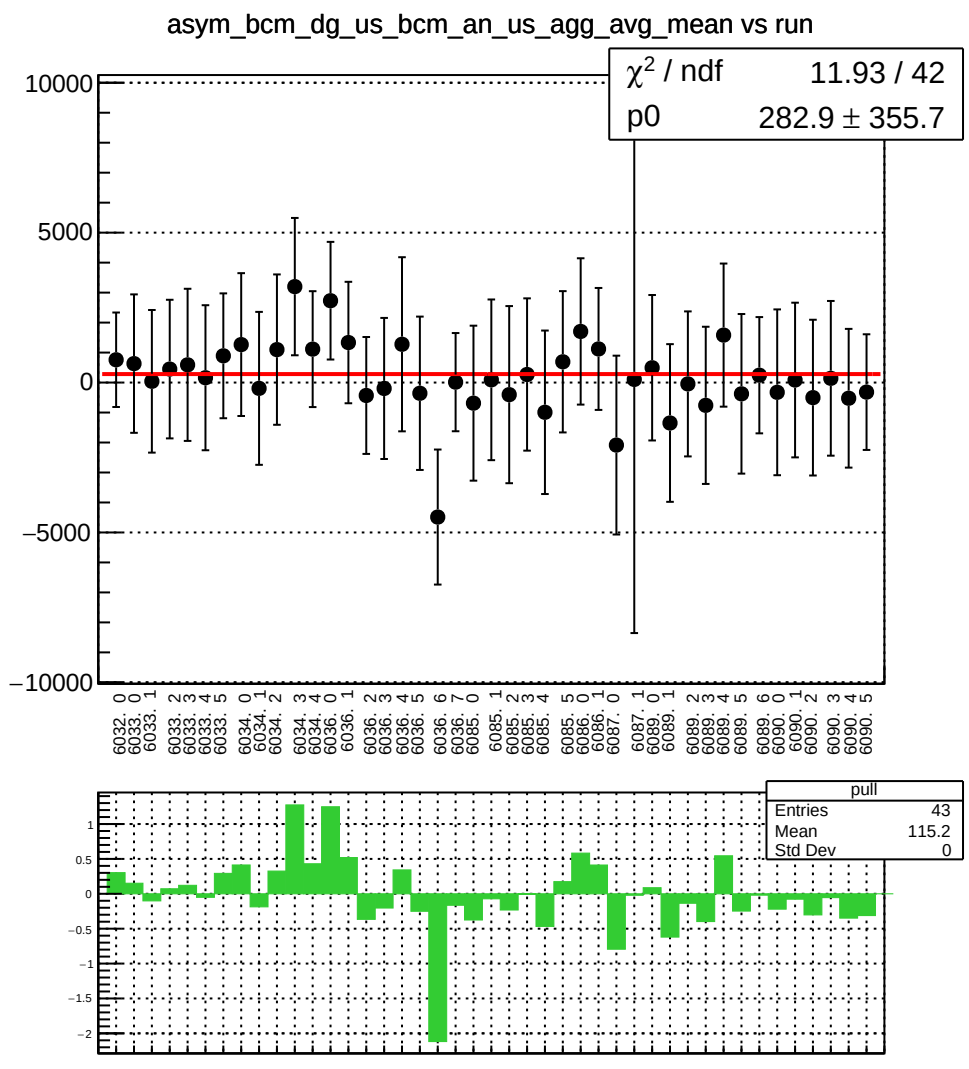

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1023 / 42
p0 22 ± 0.02356
24
23.5
23
22.5
22
21.5
21
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

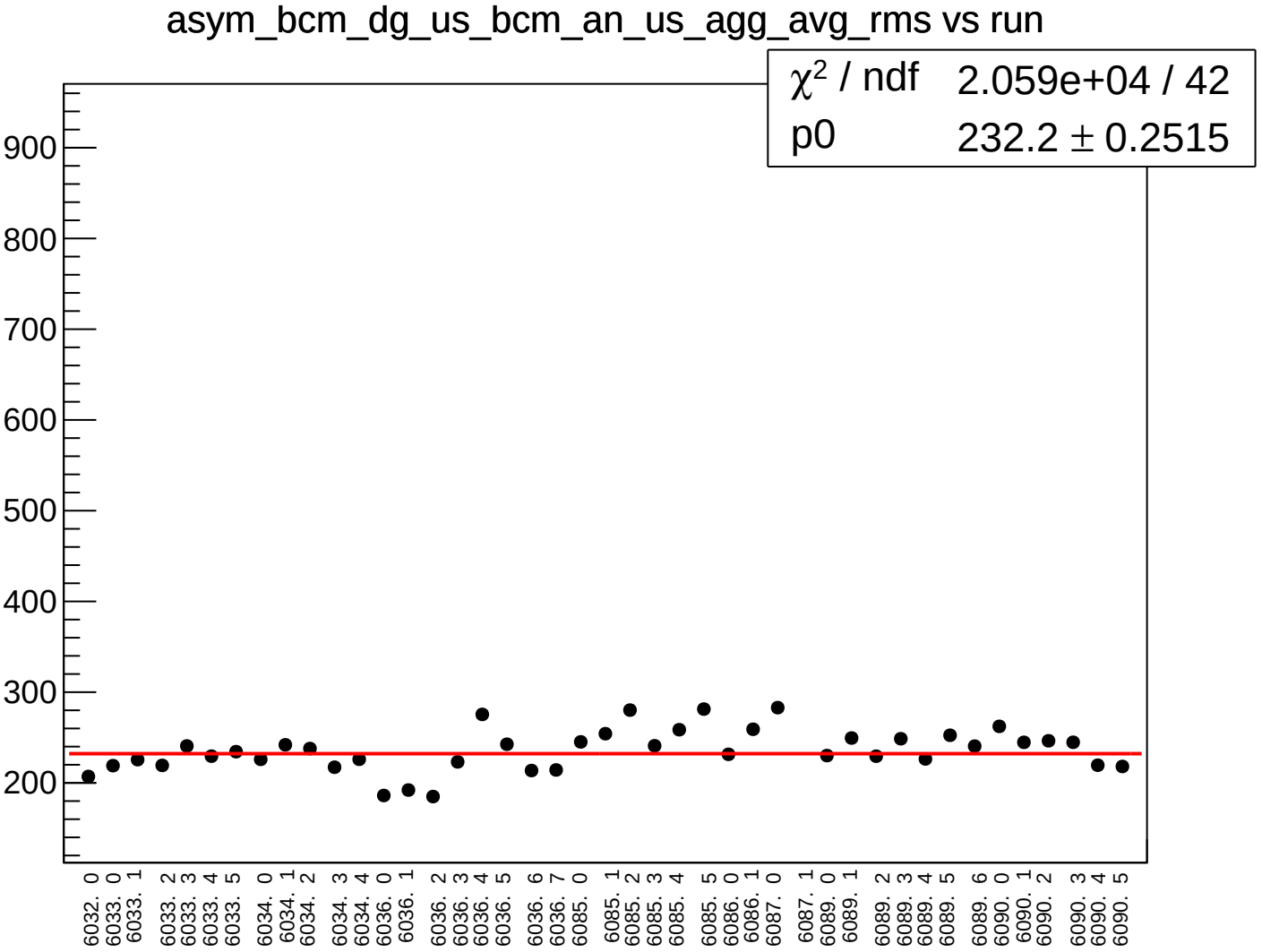

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.57 / 42
p0 395.6 ± 354.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 117.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02015
Std Dev 0.5403
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

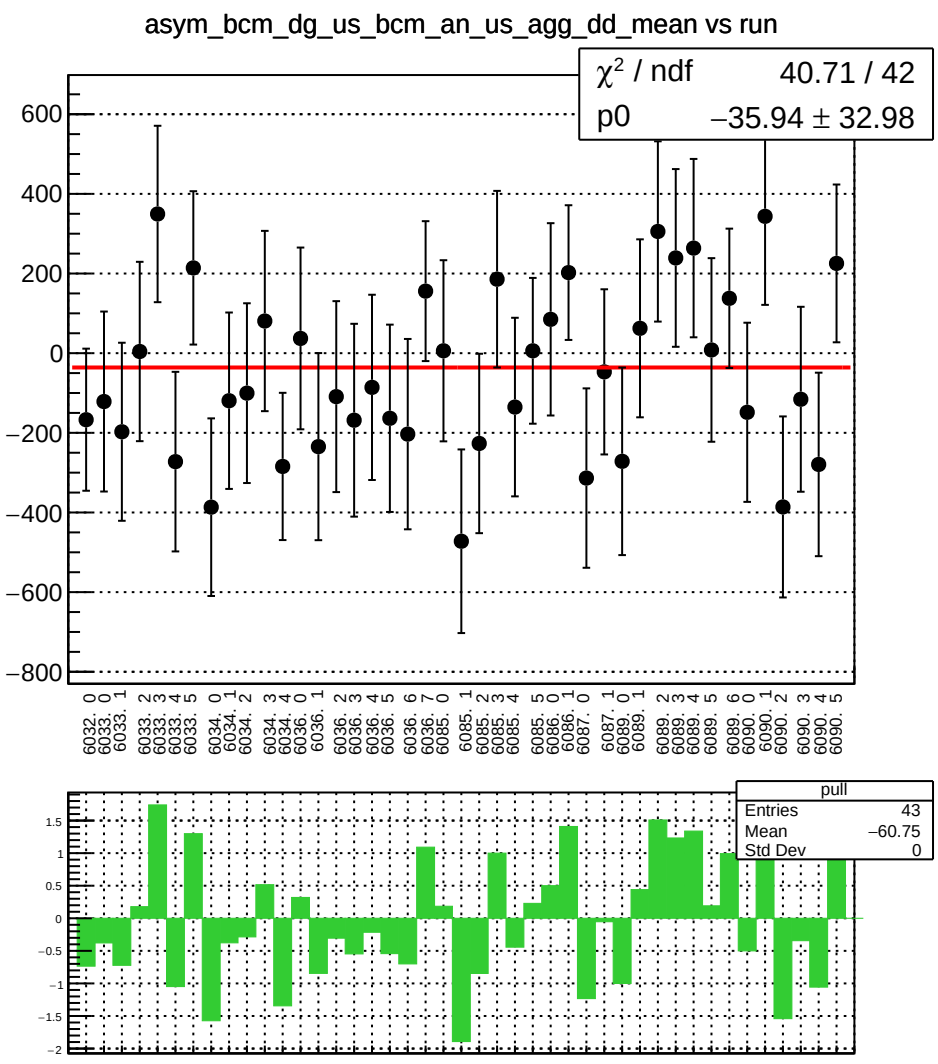

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.161e+04 / 42
p0 231.6 ± 0.2509
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

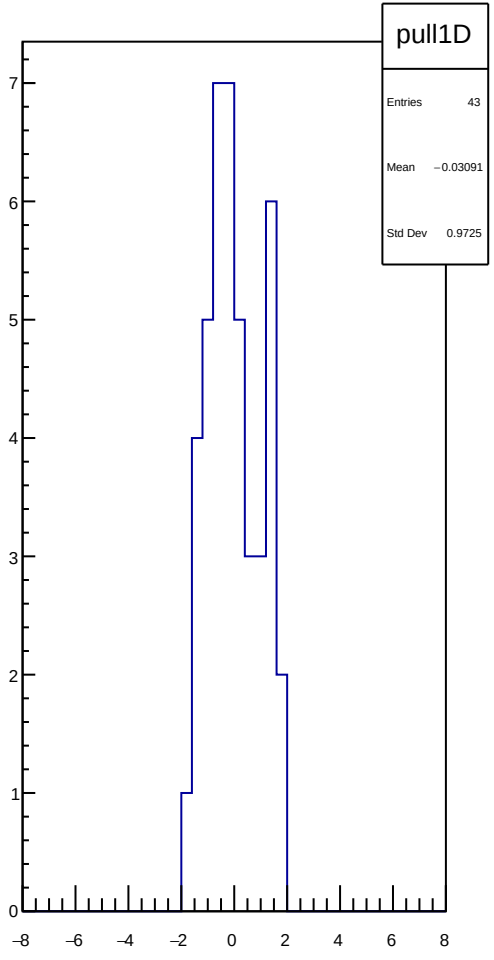

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 31.32 / 42
p0 −16.91± 25.68
pull
Entries 43
Mean −504
Std Dev 0
pull1D
Entries 43
Mean −0.00432
Std Dev 0.8534

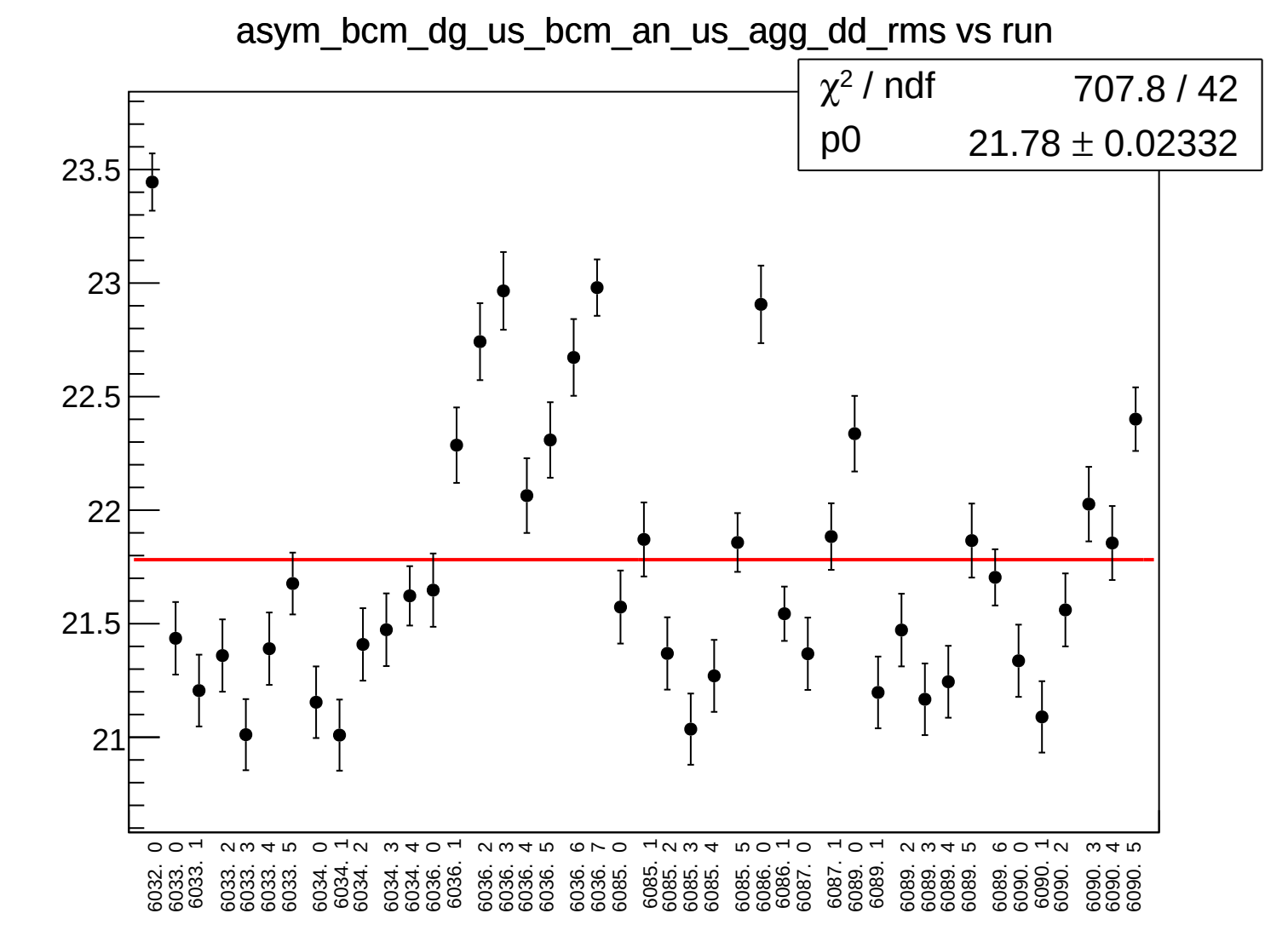

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3688 / 42
p0 16.93 ± 0.01816
20
19
18
17
16
15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.93 / 42
p0 282.9 ± 355.7
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 115.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0198
Std Dev 0.5263
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.059e+04 / 42
p0 232.2 ± 0.2515
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 40.71 / 42
p0 −35.94 ± 32.98
pull
Entries 43
Mean −60.75
Std Dev 0


pull1D
Entries 43
Mean −0.03091
Std Dev 0.9725


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 707.8 / 42
p0 21.78 ± 0.02332
23.5
23
22.5
22
21.5
21
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
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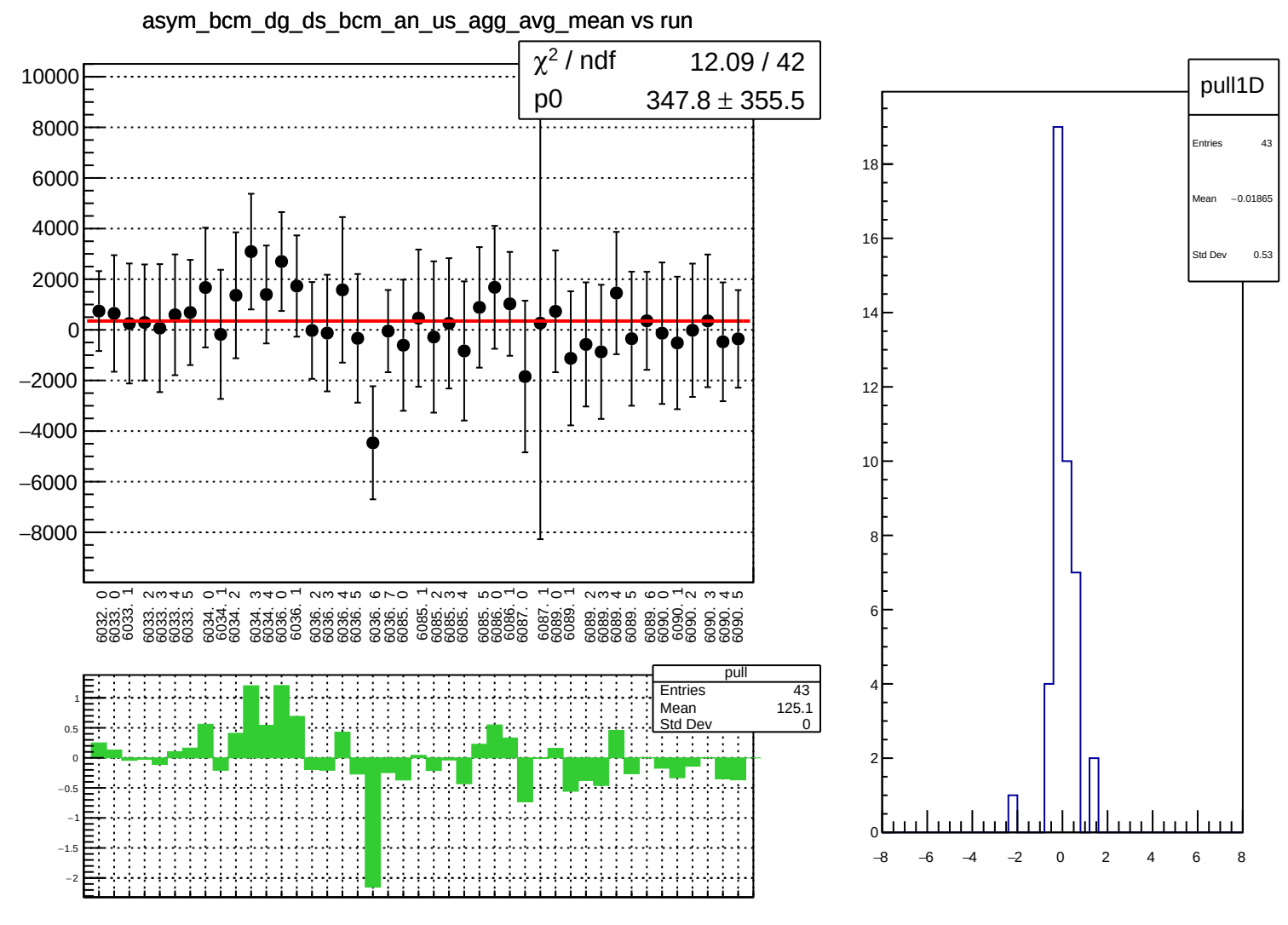
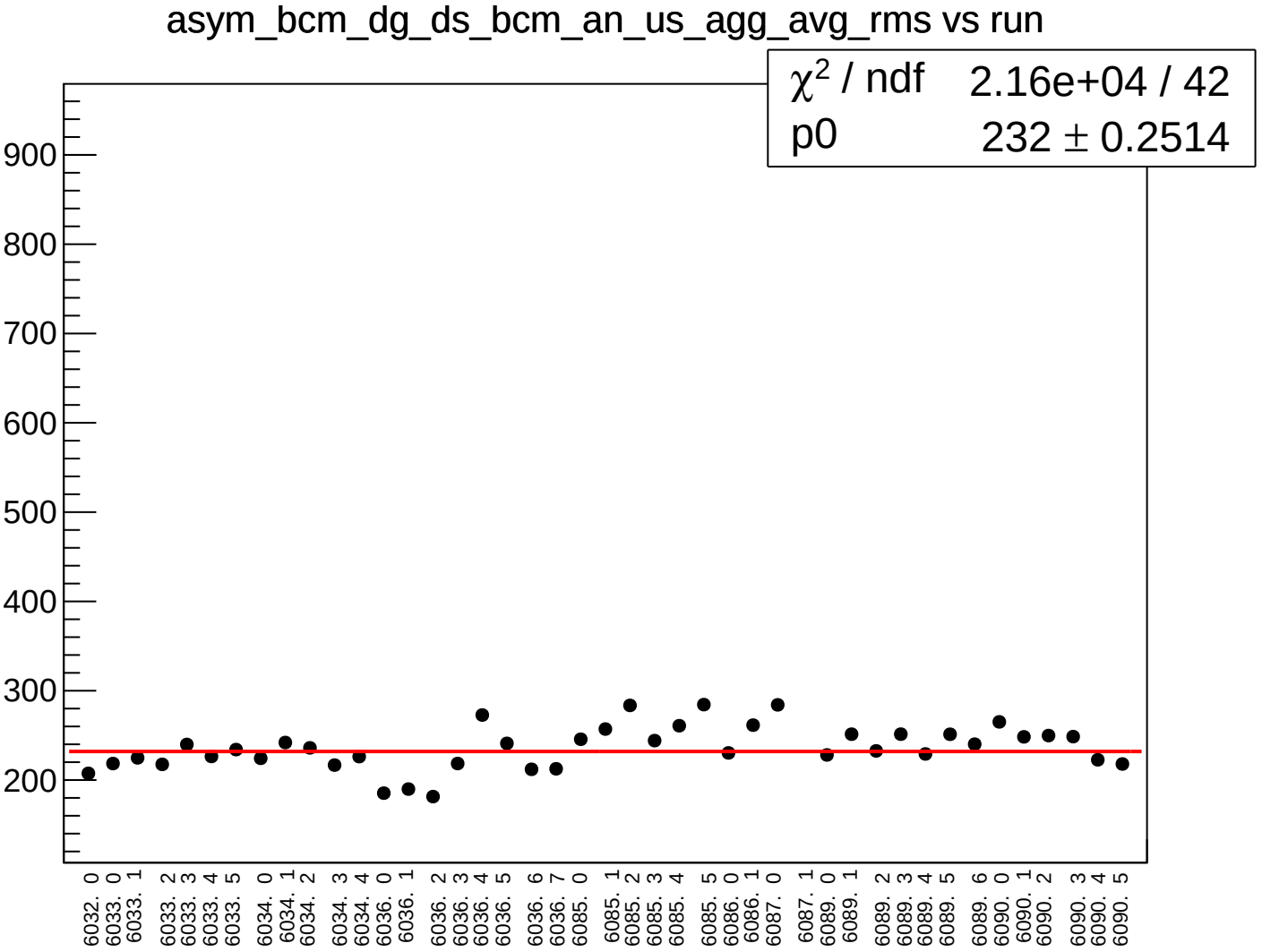
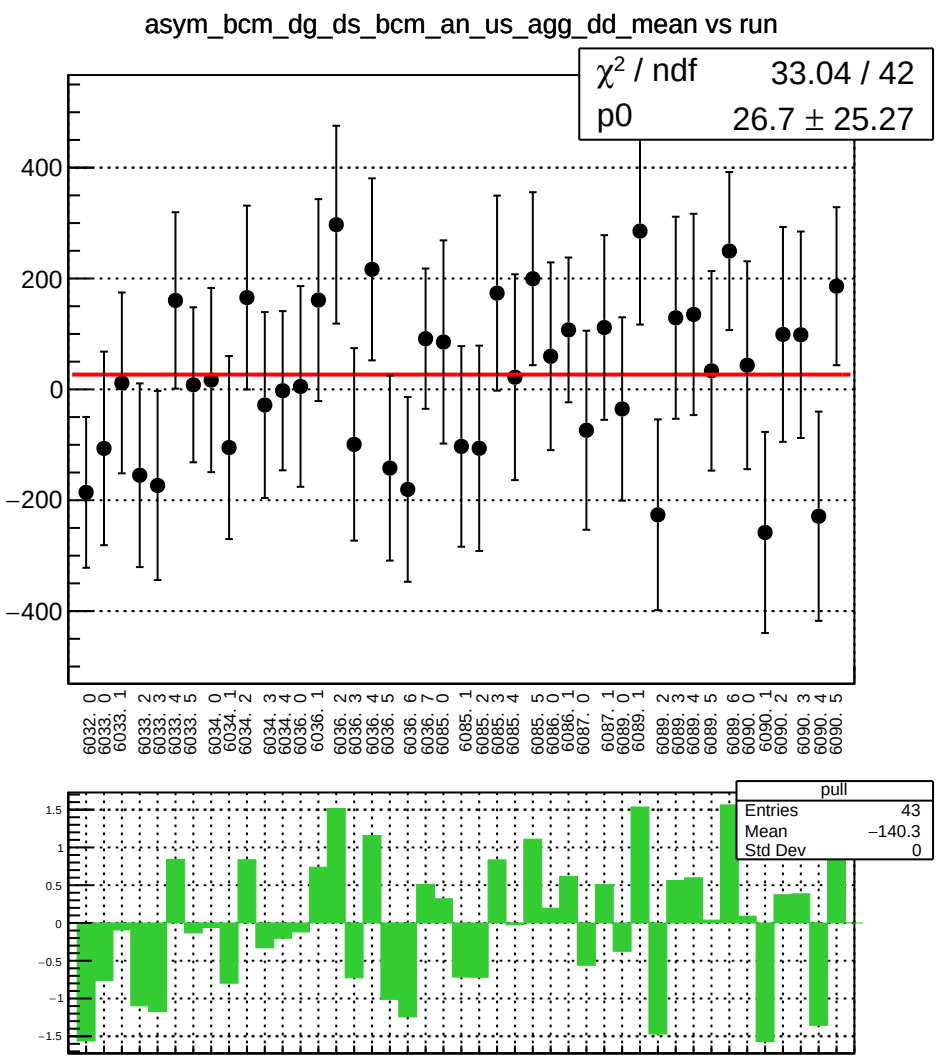
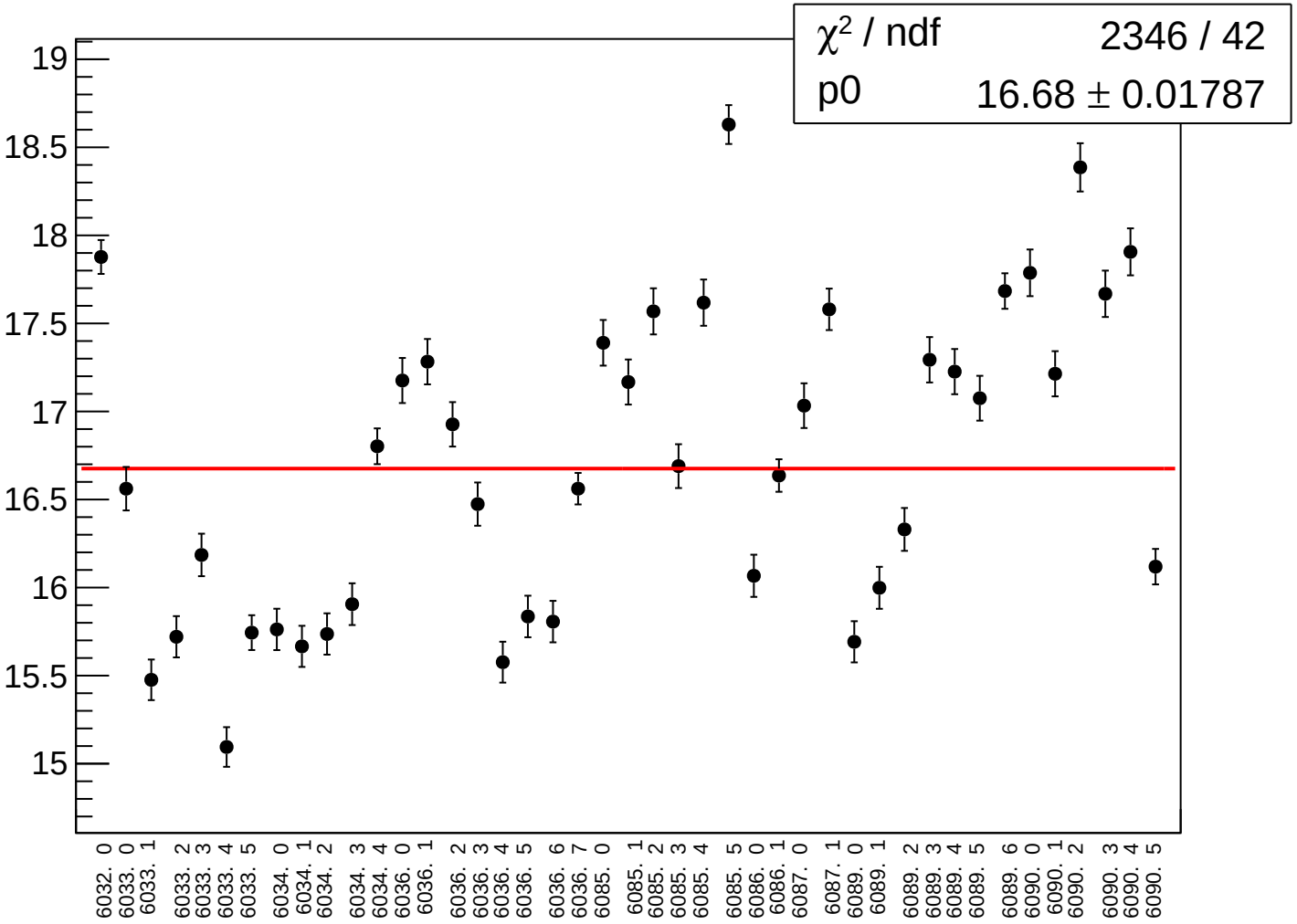
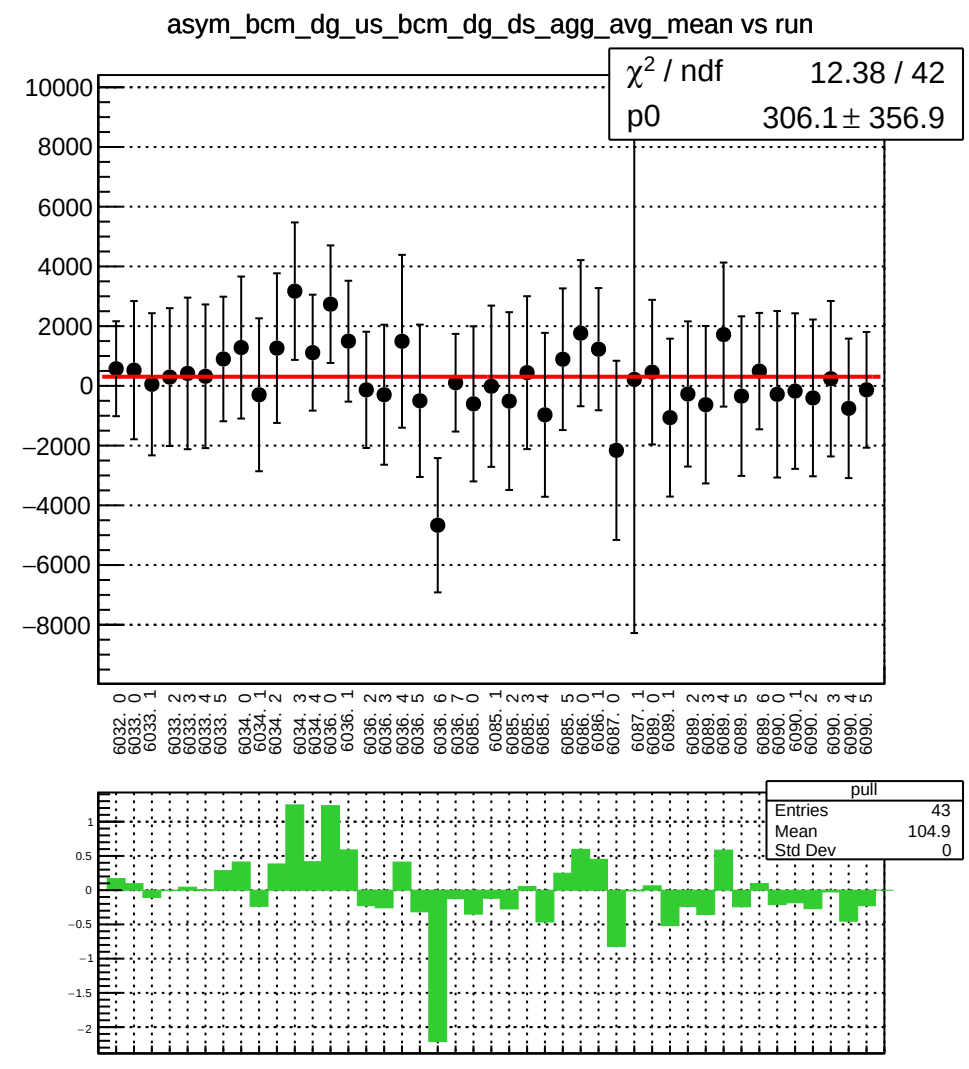
6090. 2
6090. 3
6090. 4
6090. 5

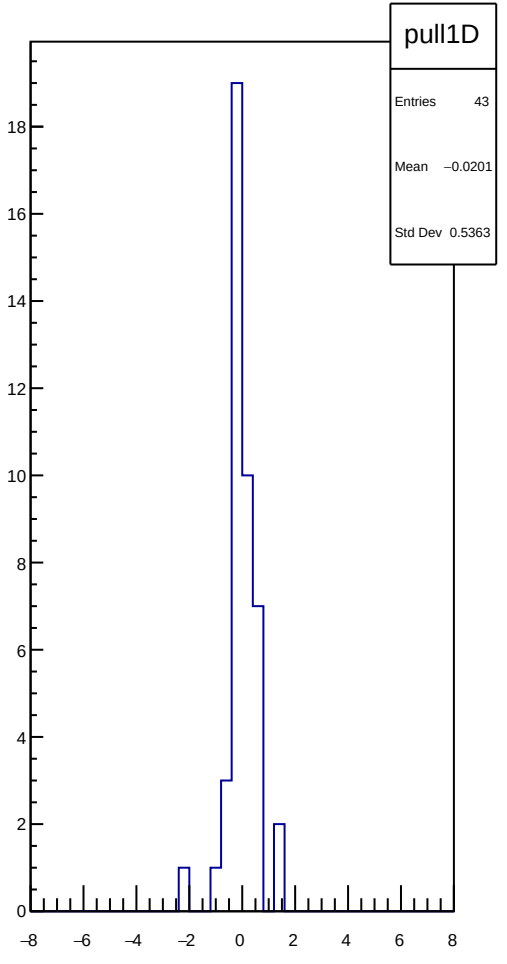

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.09 / 42
p0 347.8 ± 355.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 125.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01865
Std Dev 0.53
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

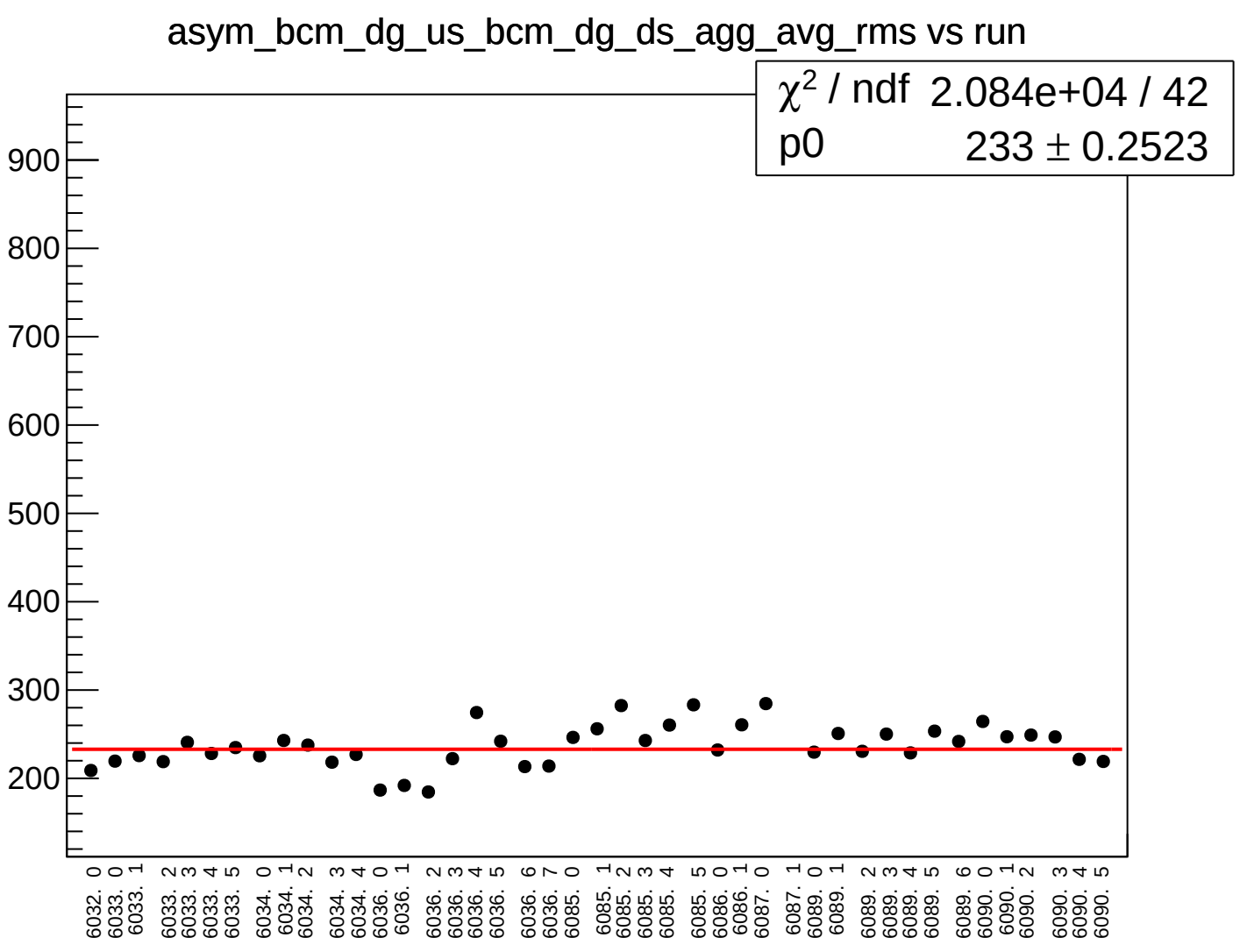

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.16e+04 / 42
p0 232 ± 0.2514
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

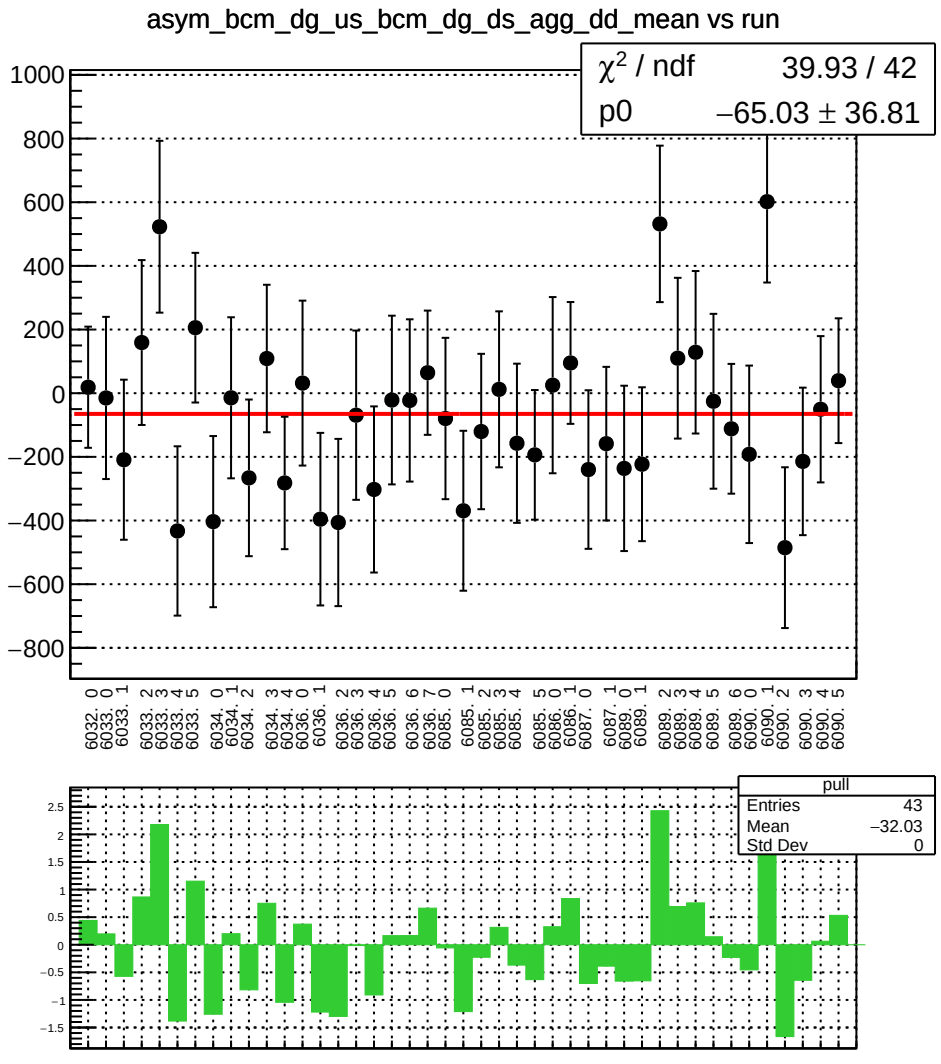

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 33.04 / 42
p0 26.7 ± 25.27
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −140.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01495
Std Dev 0.8765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

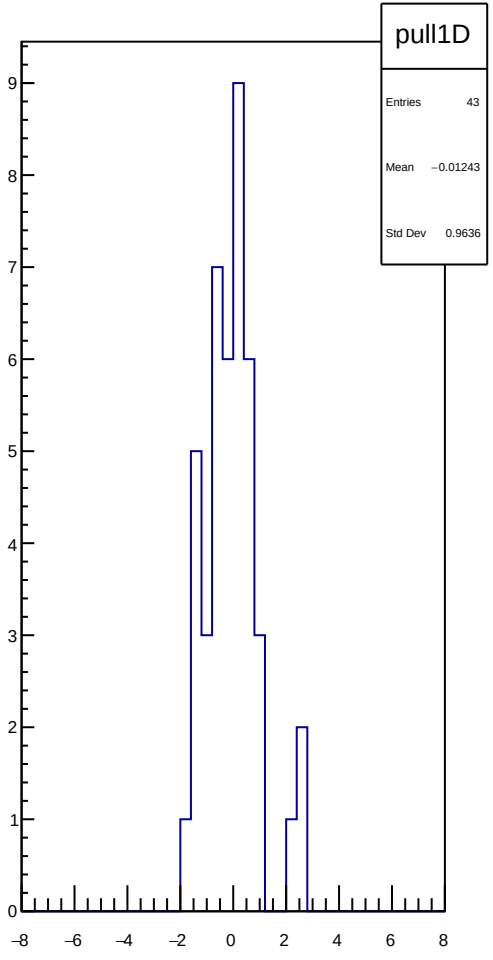

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2346 / 42
p0 16.68 ± 0.01787
19
18.5
18
17.5
17
16.5
16
15.5
15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

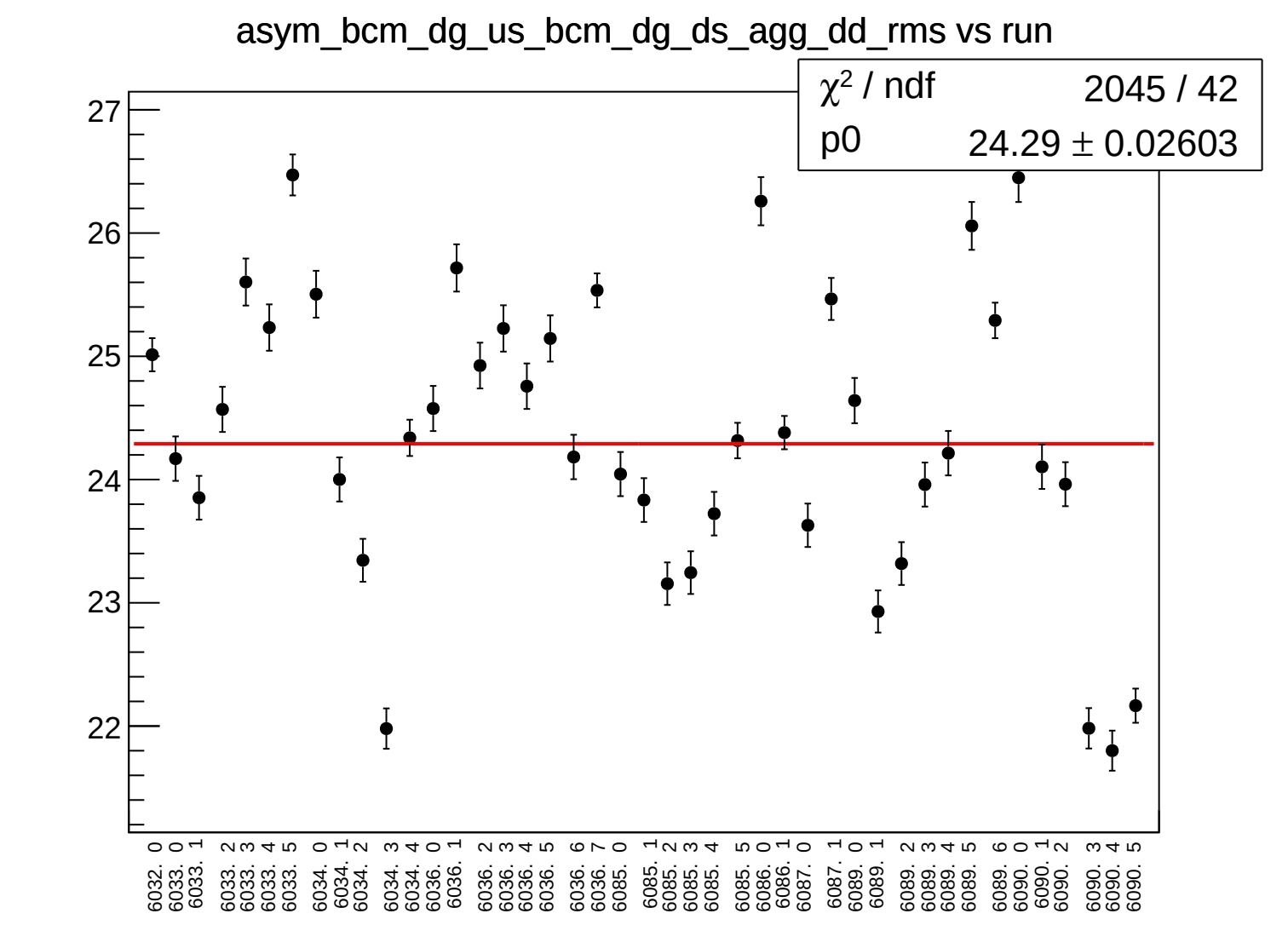

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.38 / 42
p0 306.1 ± 356.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 104.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

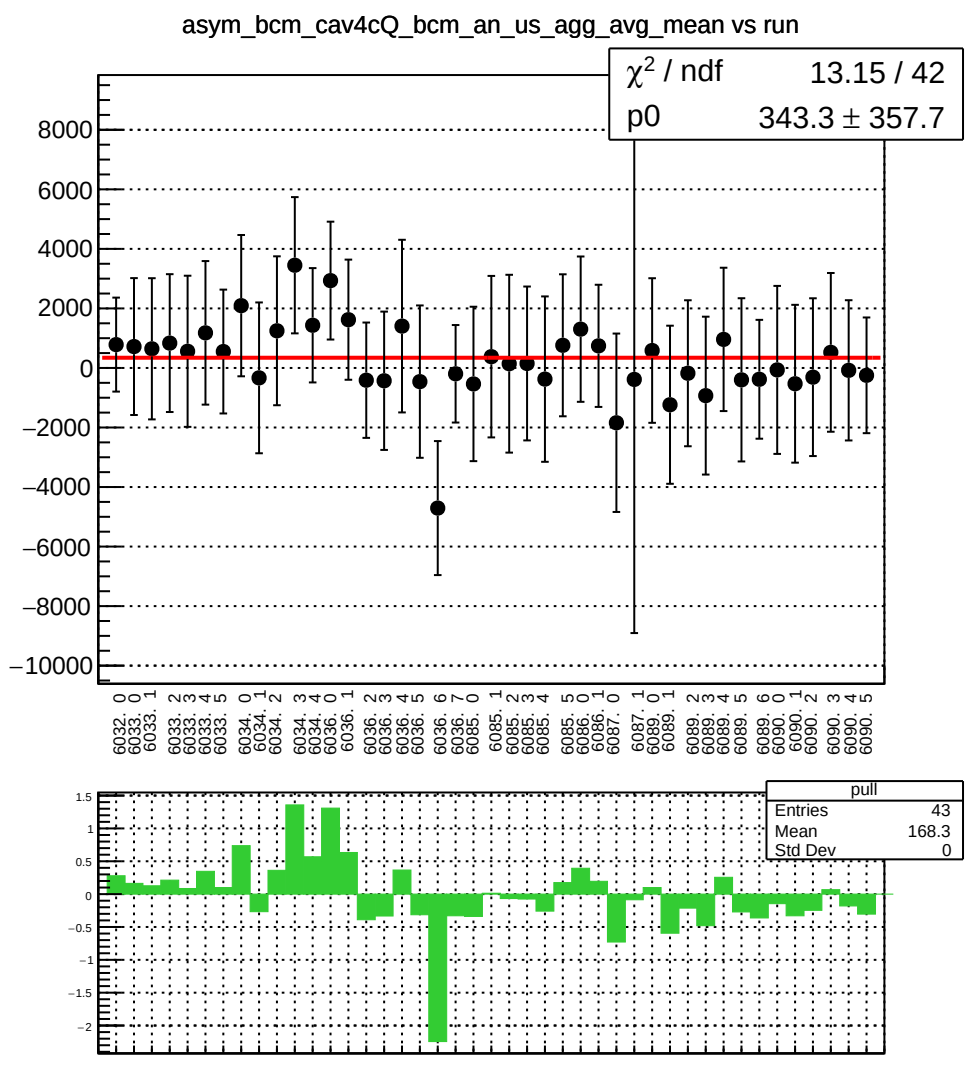

pull1D
Entries 43
Mean −0.0201
Std Dev 0.5363
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

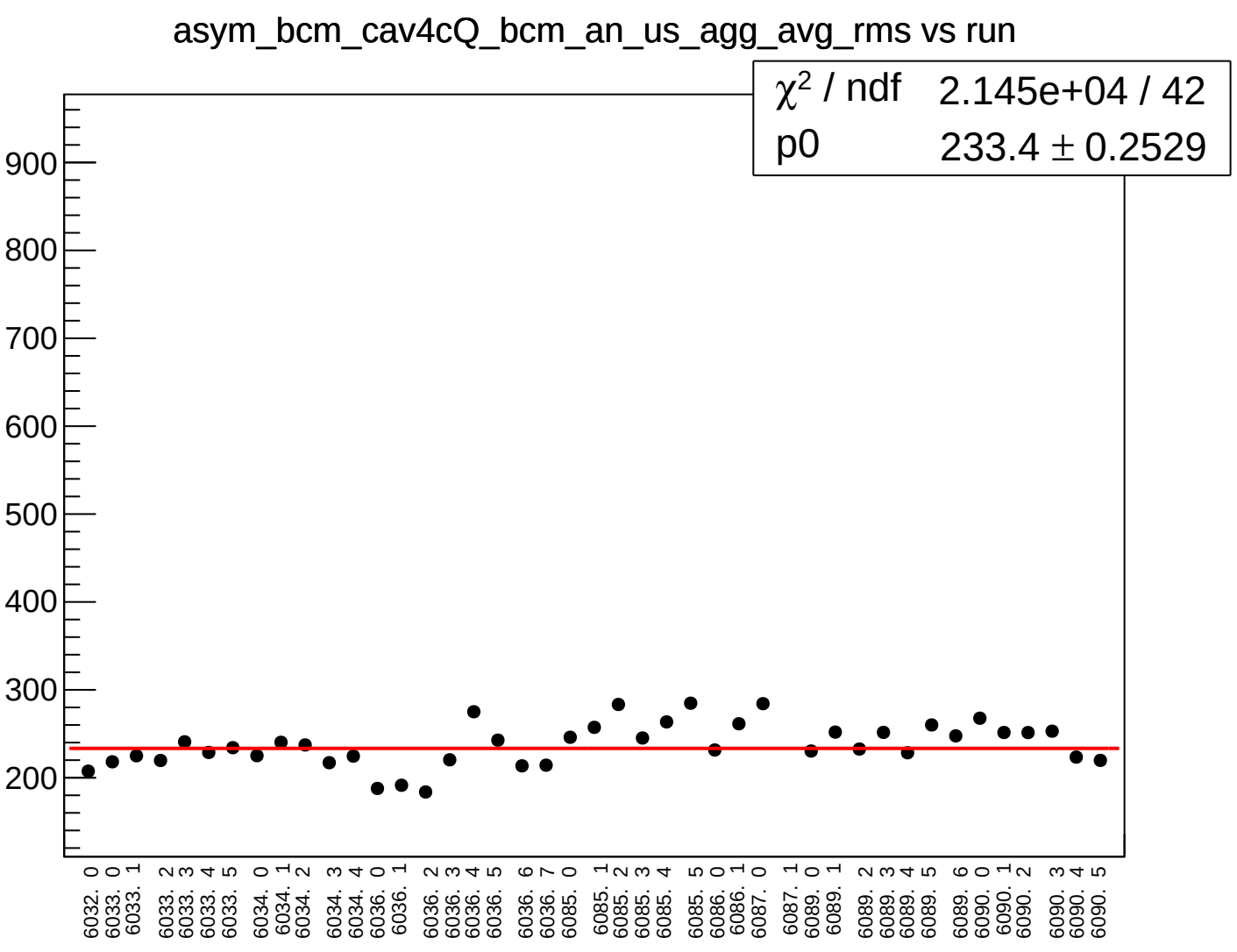

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.084e+04 / 42
p0 233 ± 0.2523
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

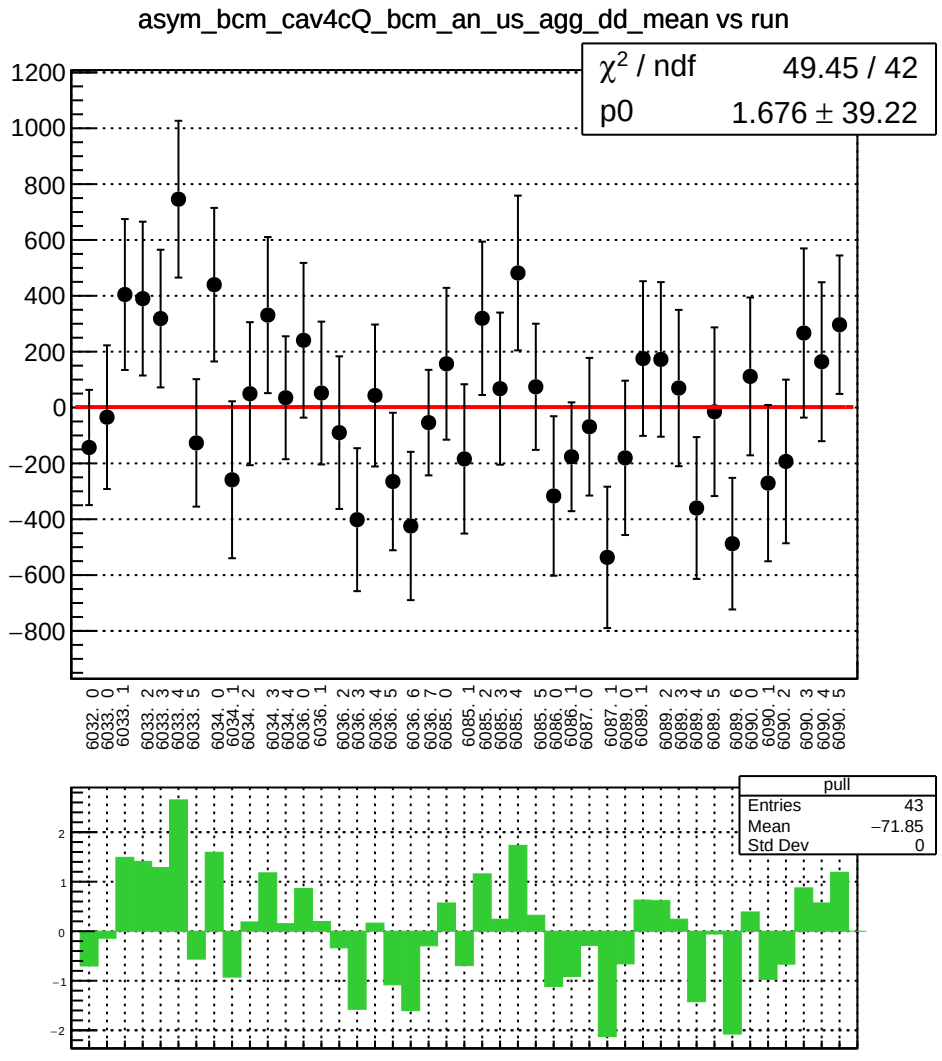

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 39.93 / 42
p0 −65.03 ± 36.81
1000
800
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

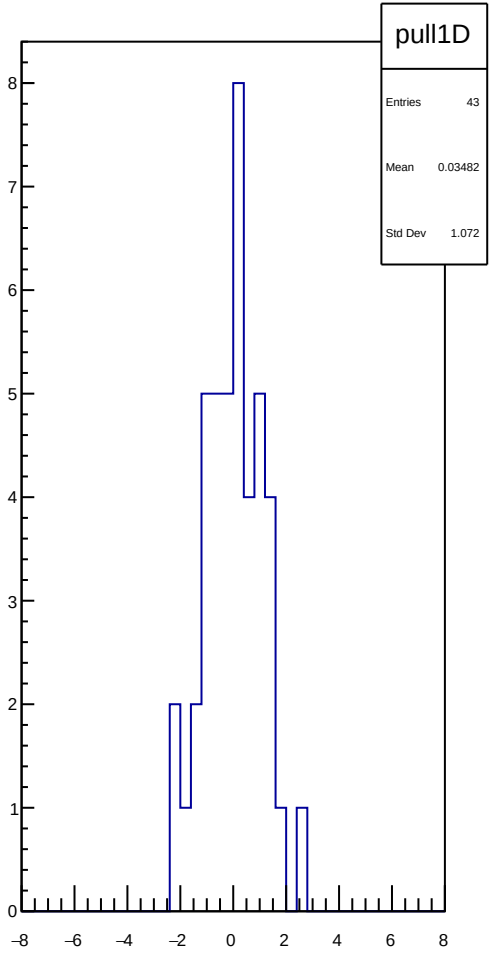

pull1D
Entries 43
Mean −0.01243
Std Dev 0.9636
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

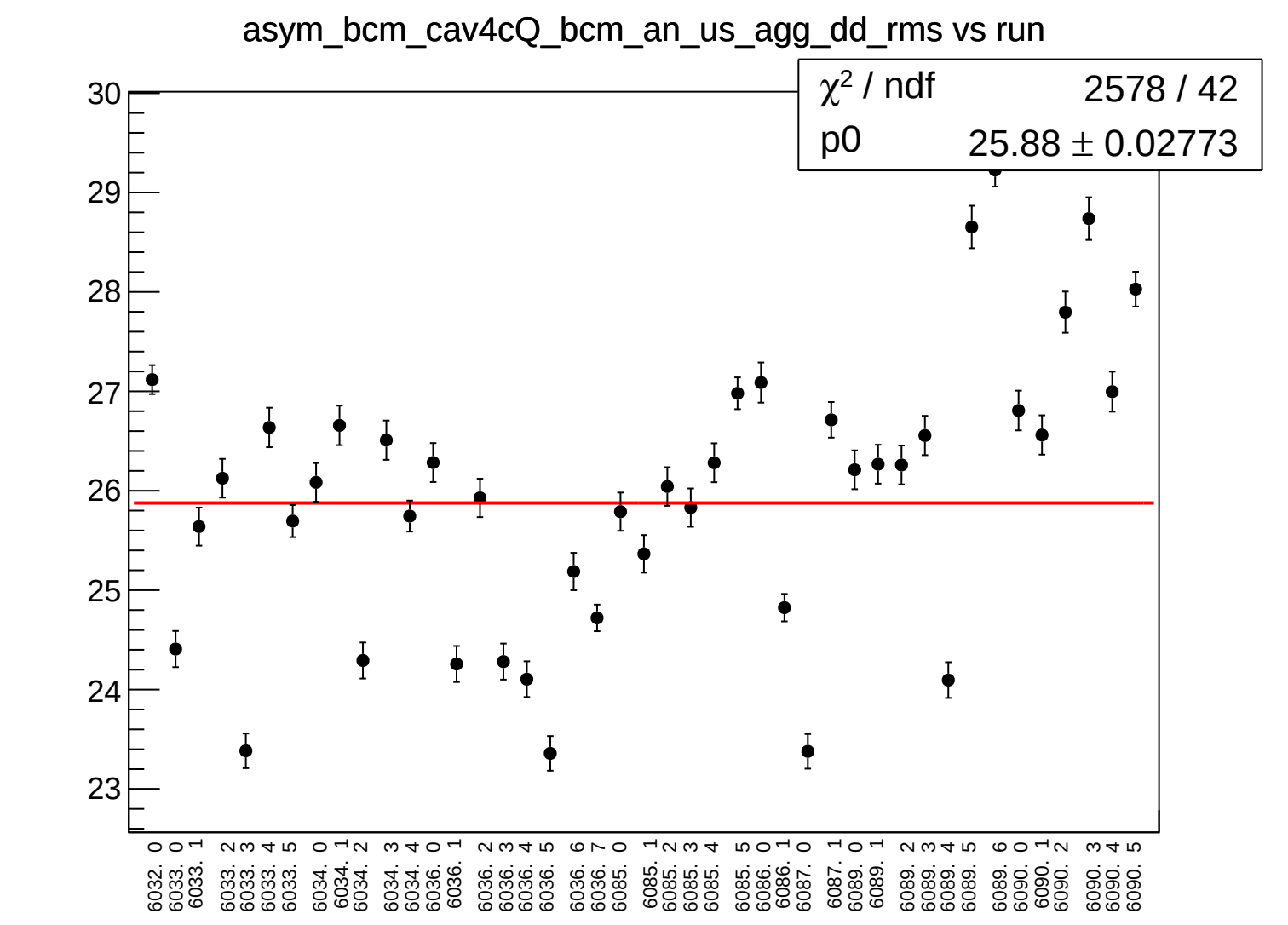

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2045 / 42
p0 24.29 ± 0.02603
27
26
25
24
23
22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

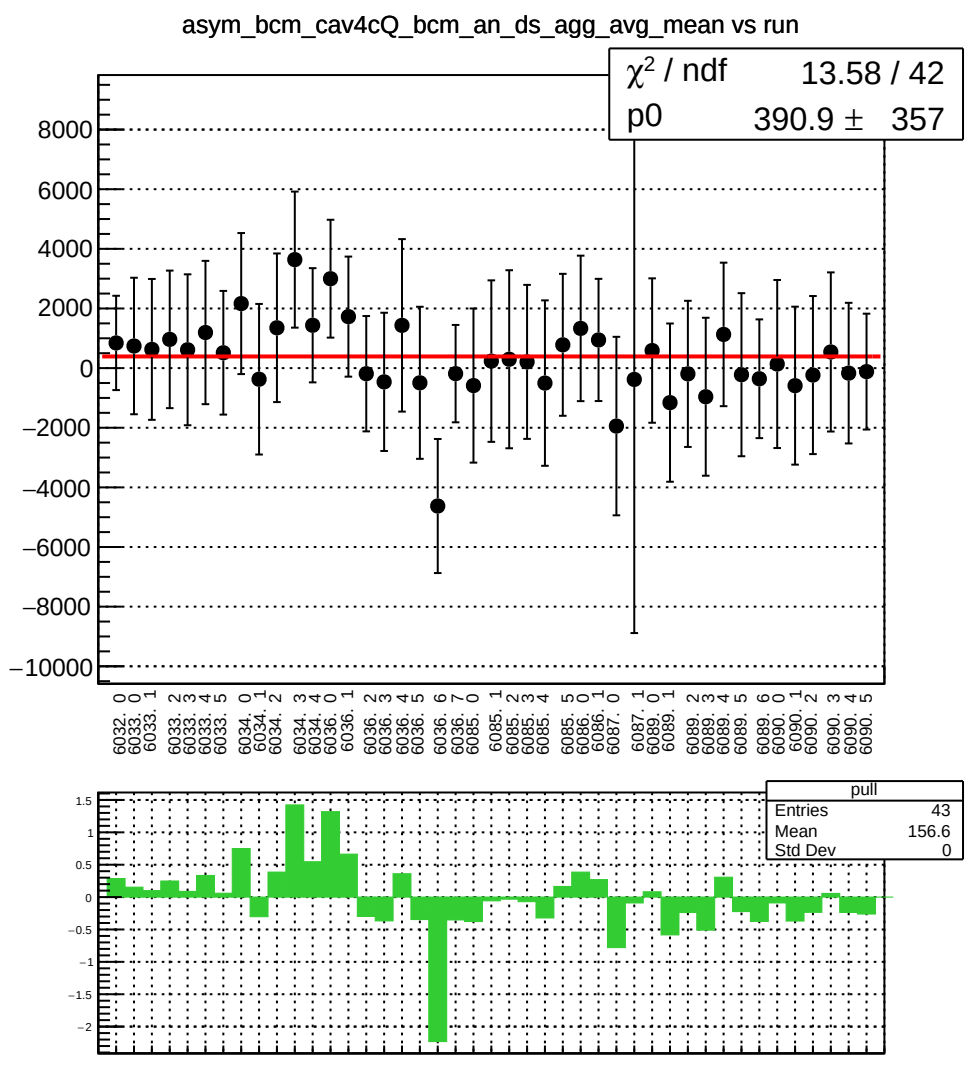

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.15 / 42
p0 343.3 ± 357.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 168.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01643
Std Dev 0.5528
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

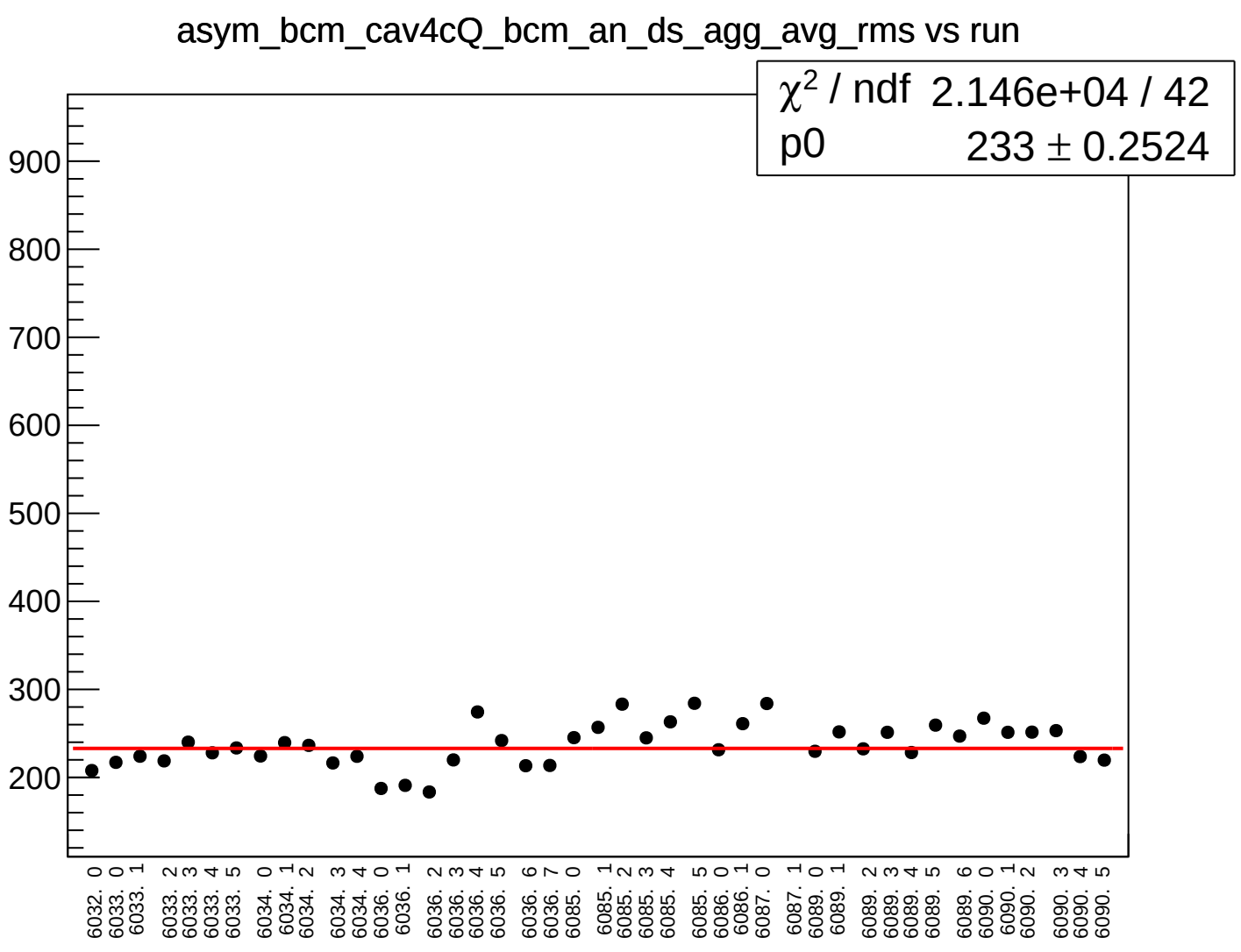

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.145e+04 / 42
p0 233.4 ± 0.2529
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

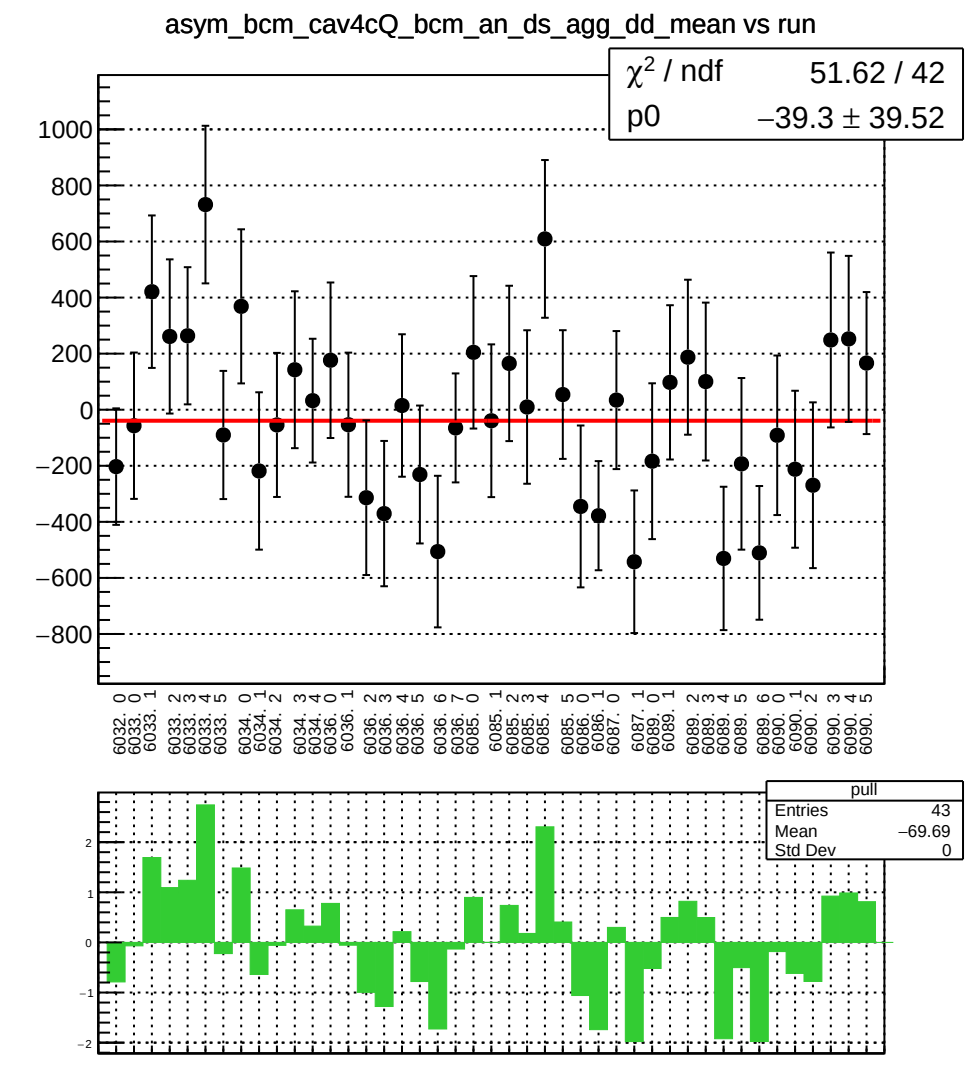

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 49.45 / 42
p0 1.676 ± 39.22
pull
Entries 43
Mean −71.85
Std Dev 0

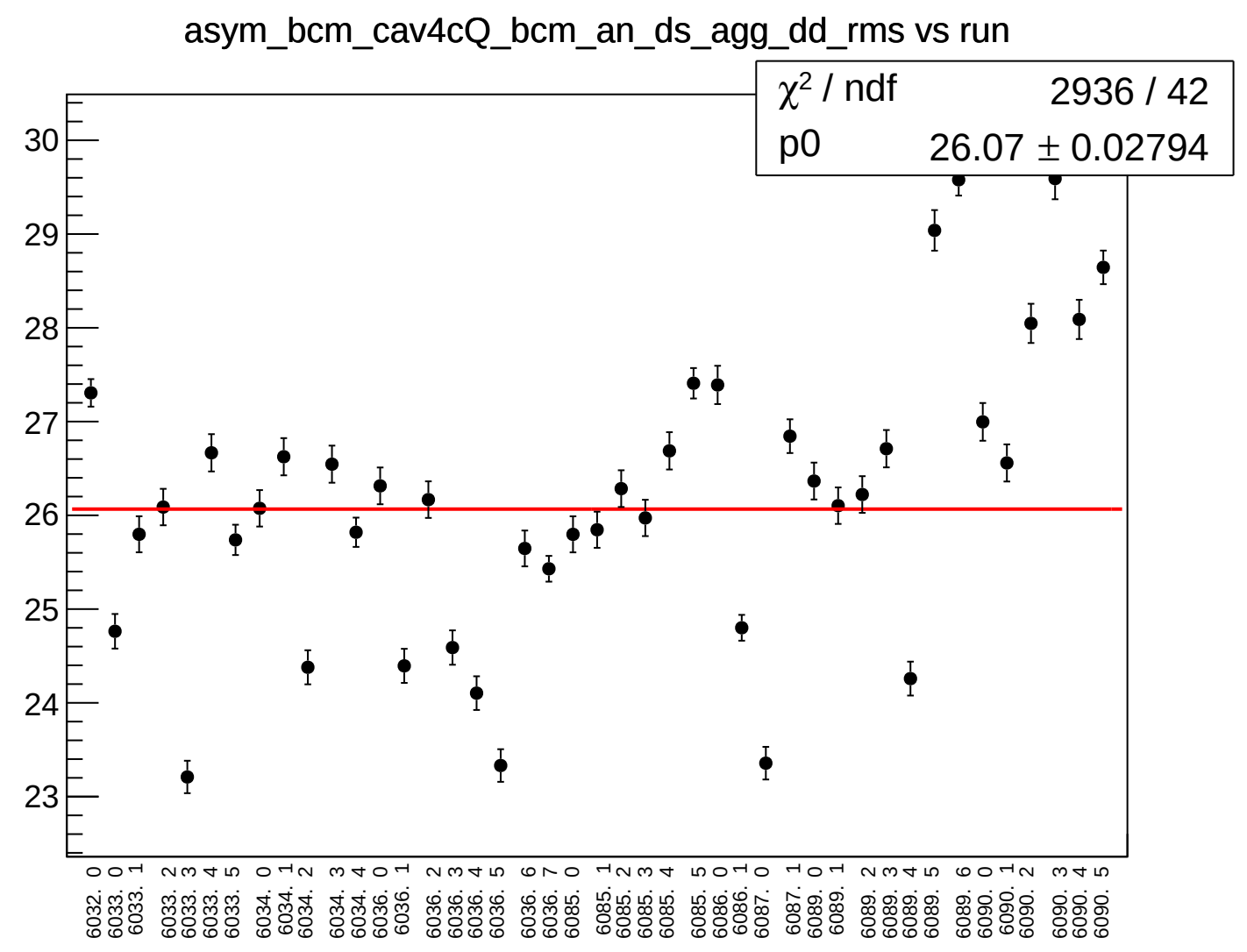

pull1D
Entries 43
Mean 0.03482
Std Dev 1.072

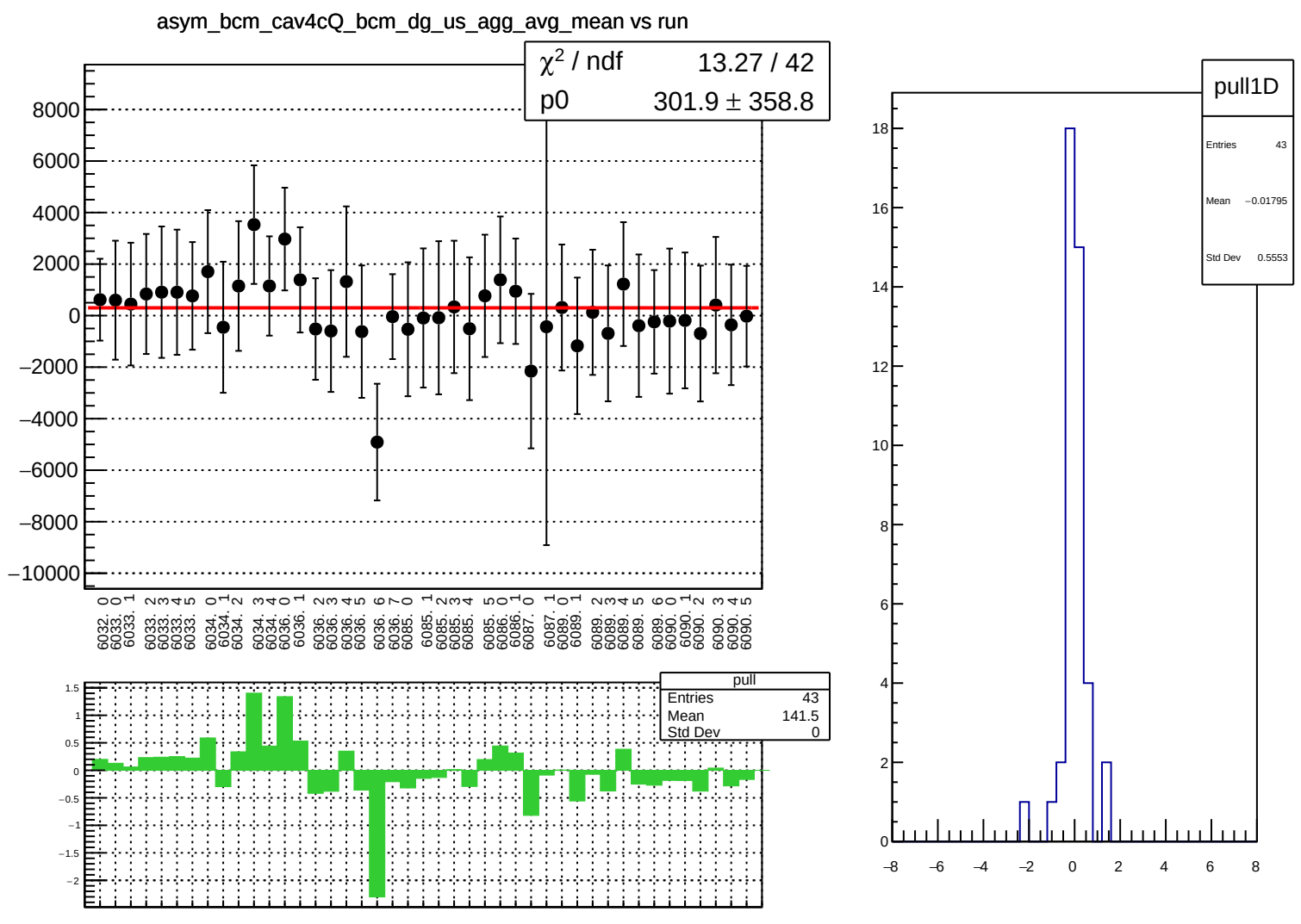

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2578 / 42
p0 25.88 ± 0.02773
30
29
28
27
26
25
24
23
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

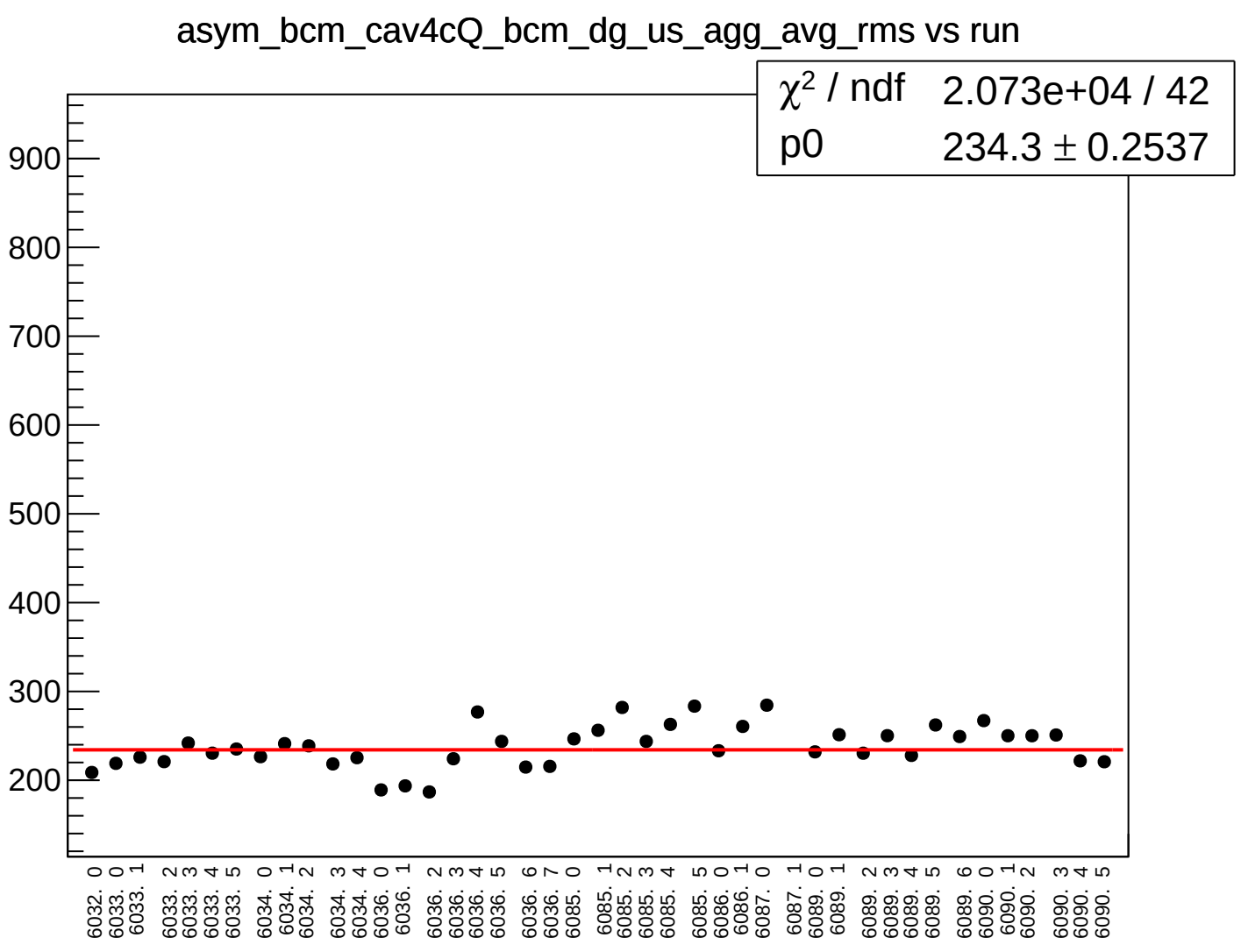

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.58 / 42
p0 390.9 ± 357
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 156.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01788
Std Dev 0.5618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

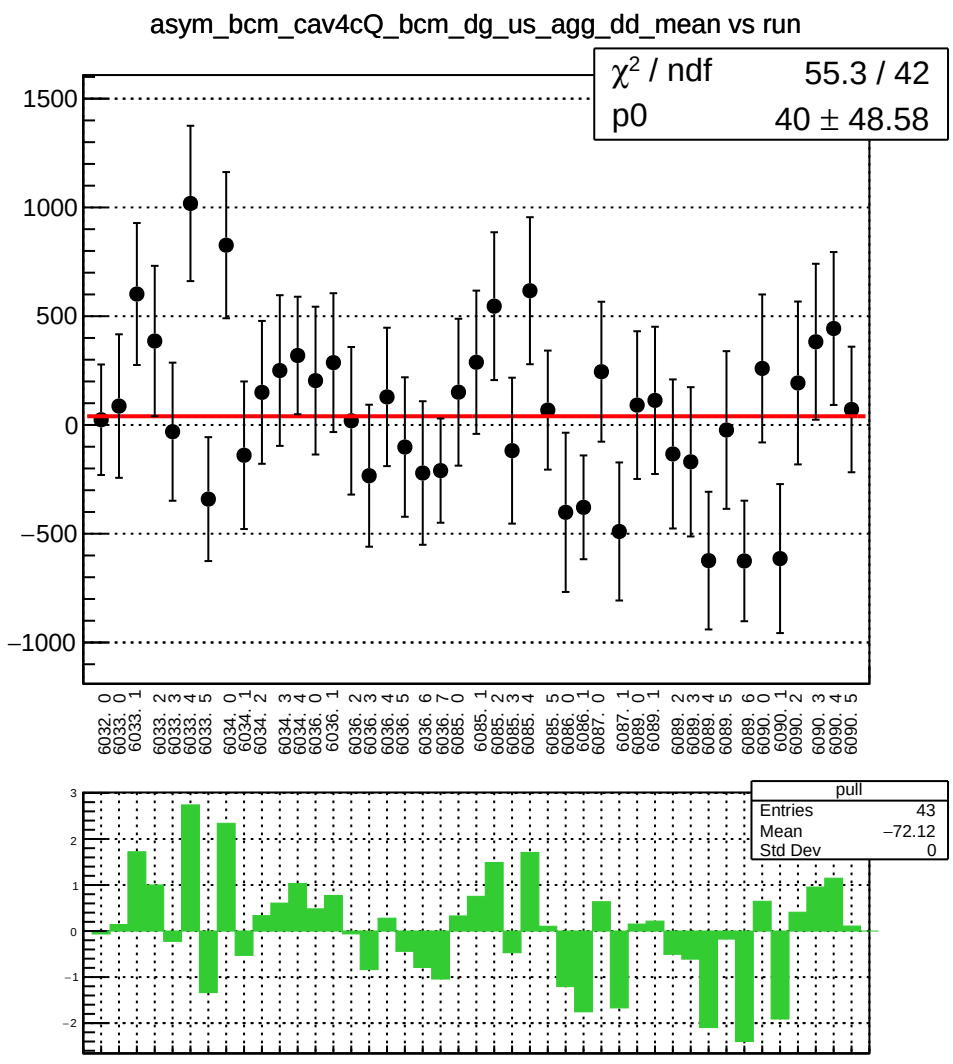

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.146e+04 / 42
p0 233 ± 0.2524
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

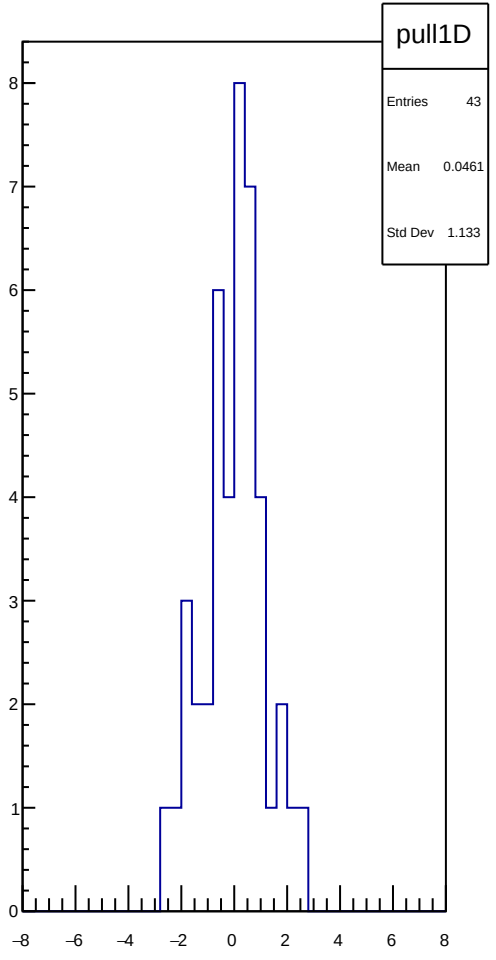

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 51.62 / 42
p0 −39.3 ± 39.52
1000
800
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −69.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03631
Std Dev 1.095
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

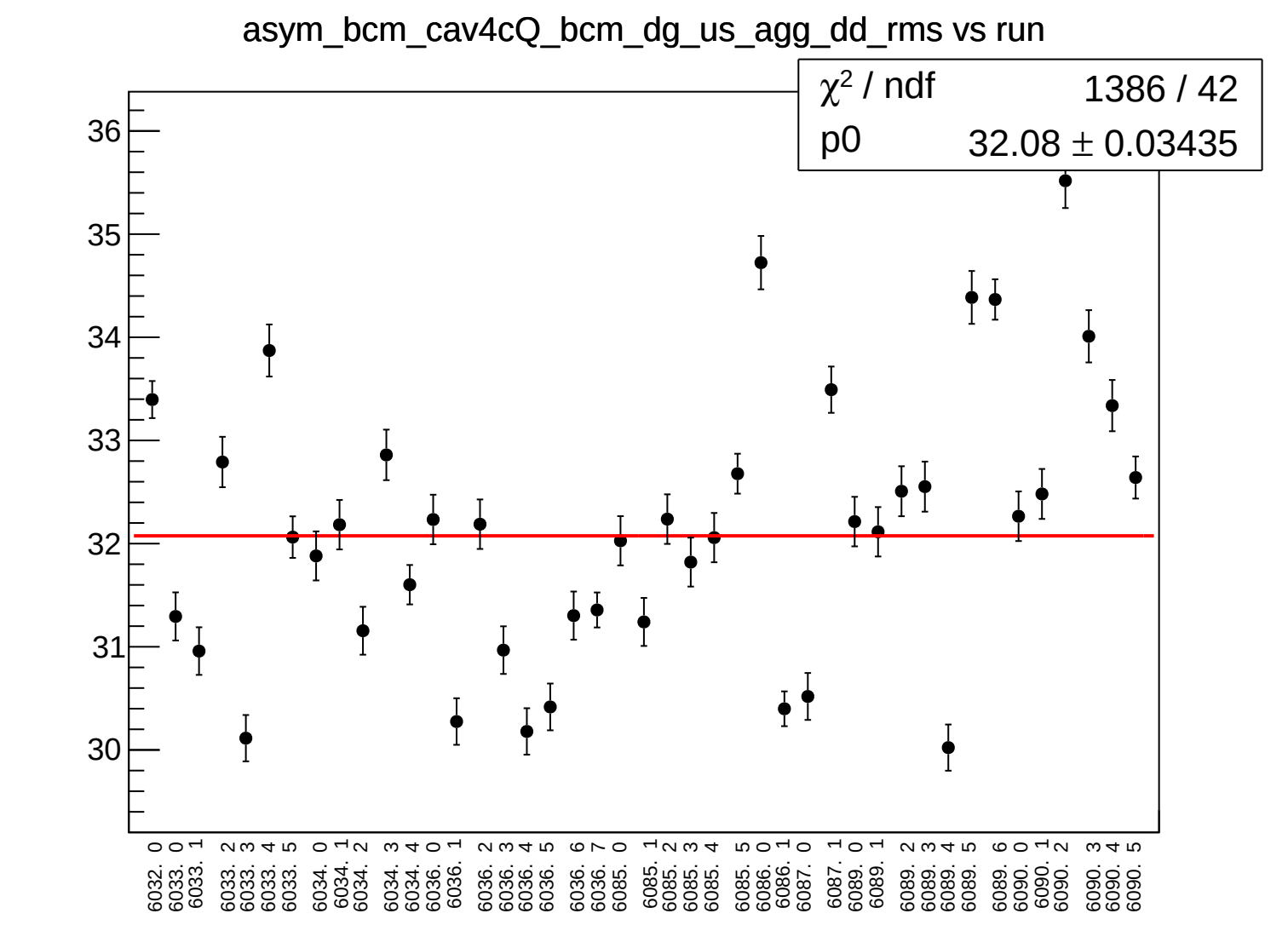

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2936 / 42
p0 26.07 ± 0.02794
30
29
28
27
26
25
24
23
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

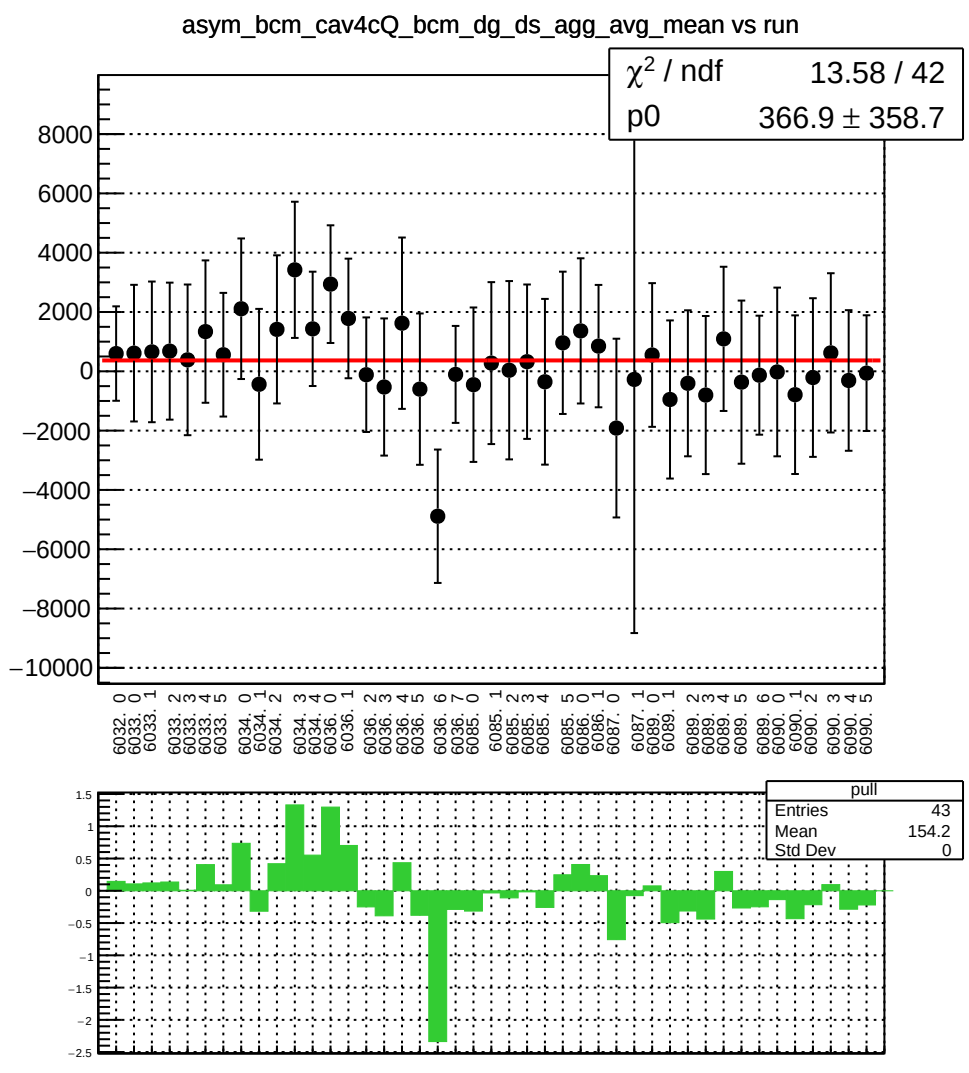

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 13.27 / 42
p0 301.9 ± 358.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 141.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01795
Std Dev 0.5553
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

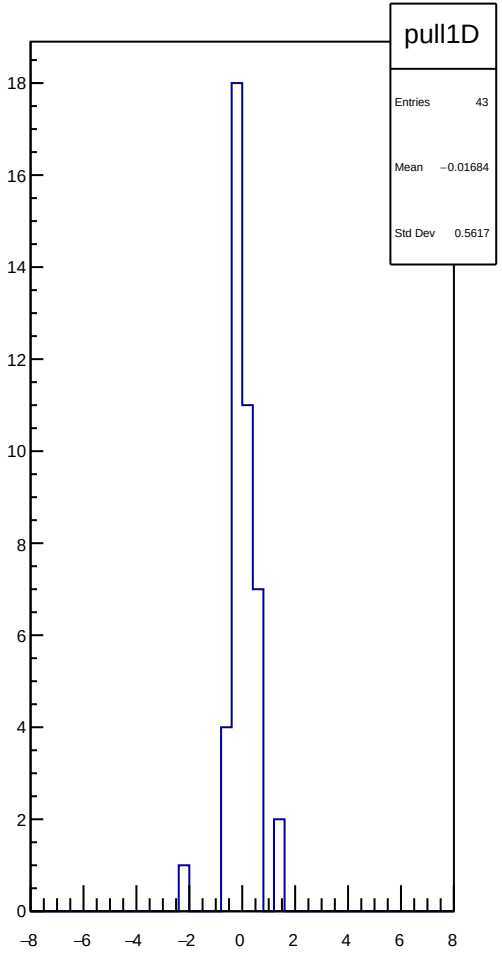

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.073e+04 / 42
p0 234.3 ± 0.2537
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

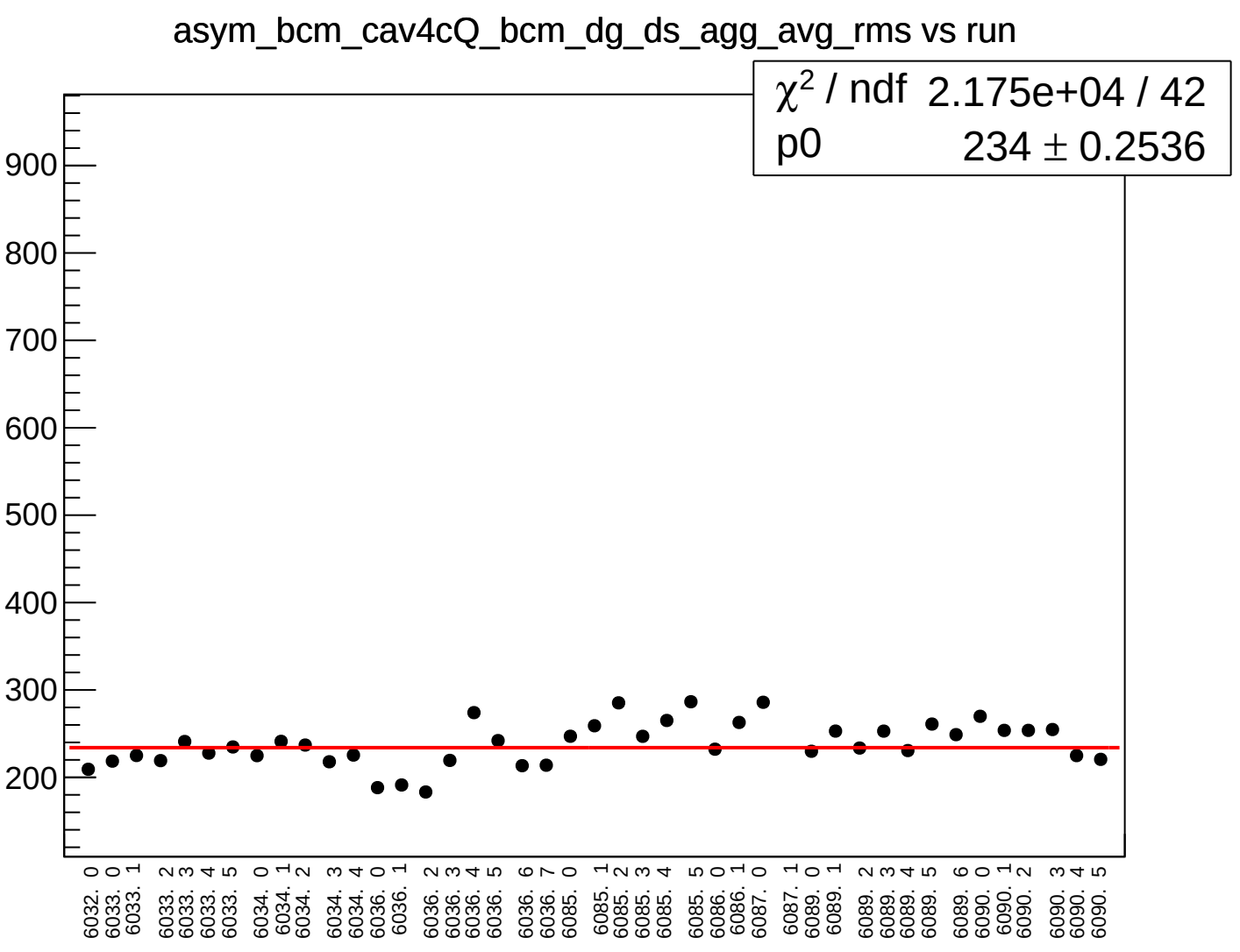

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 55.3 / 42
p0 40 ± 48.58
1500
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −72.12
Std Dev 0
3
2
1
0
−1
−2

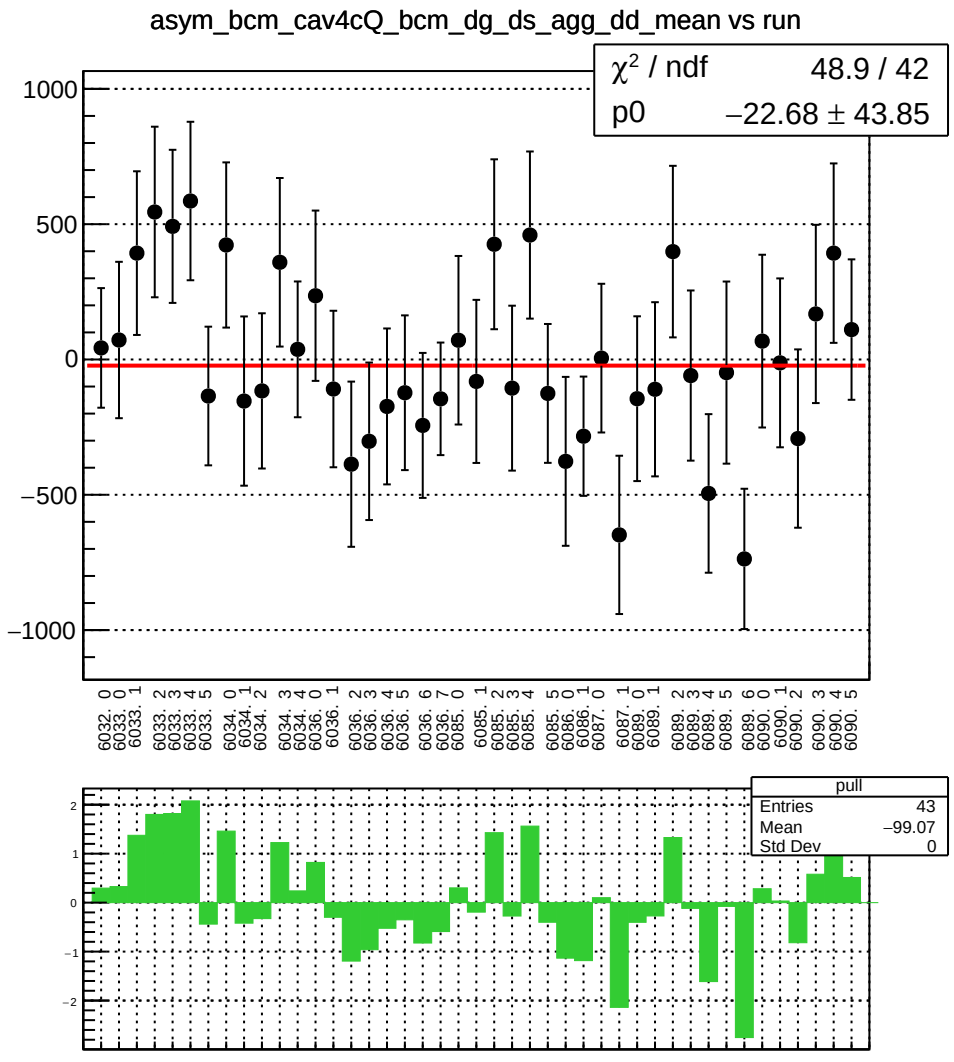

pull1D
Entries 43
Mean 0.0461
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

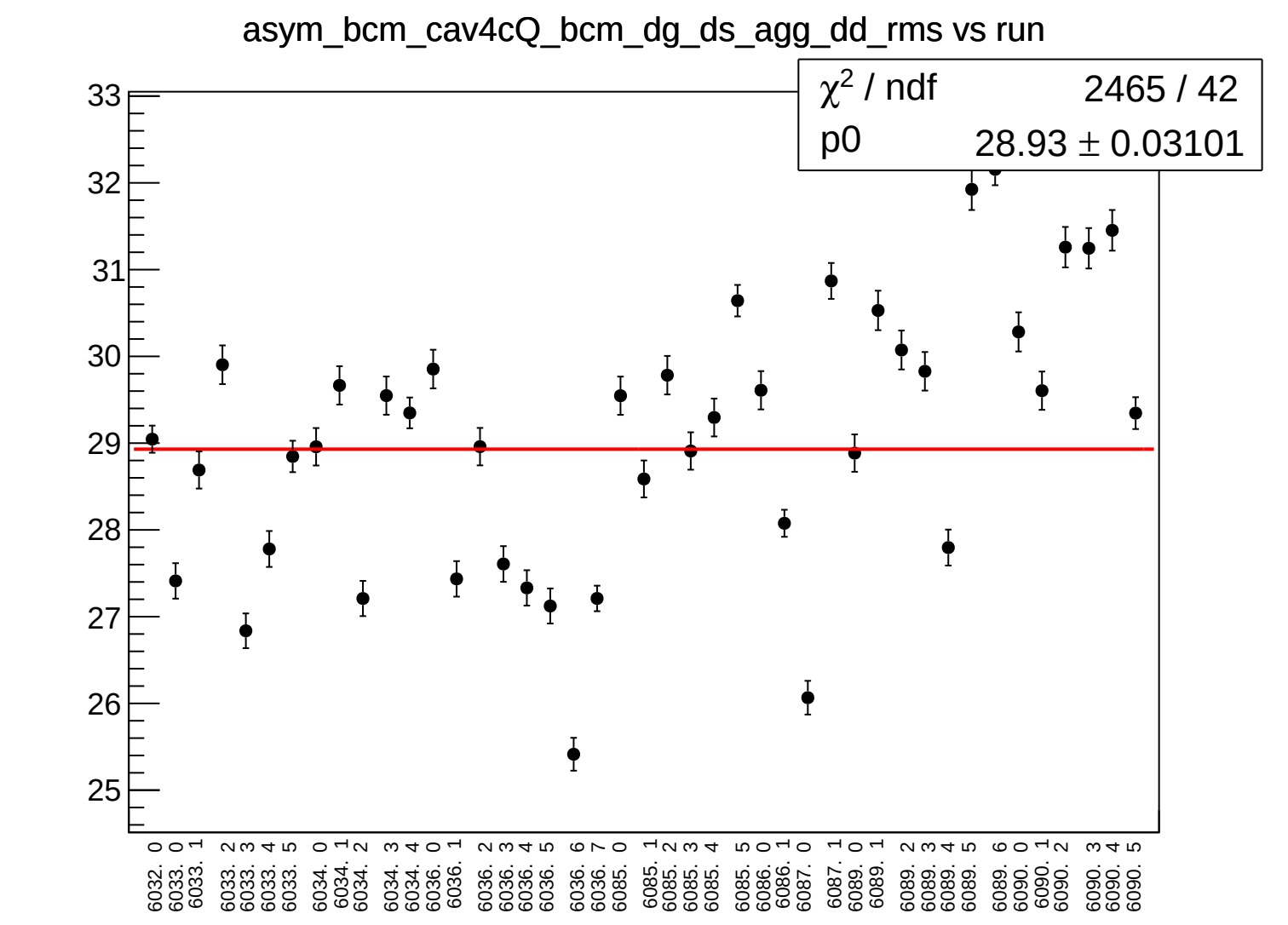

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1386 / 42
p0 32.08 ± 0.03435
36
35
34
33
32
31
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

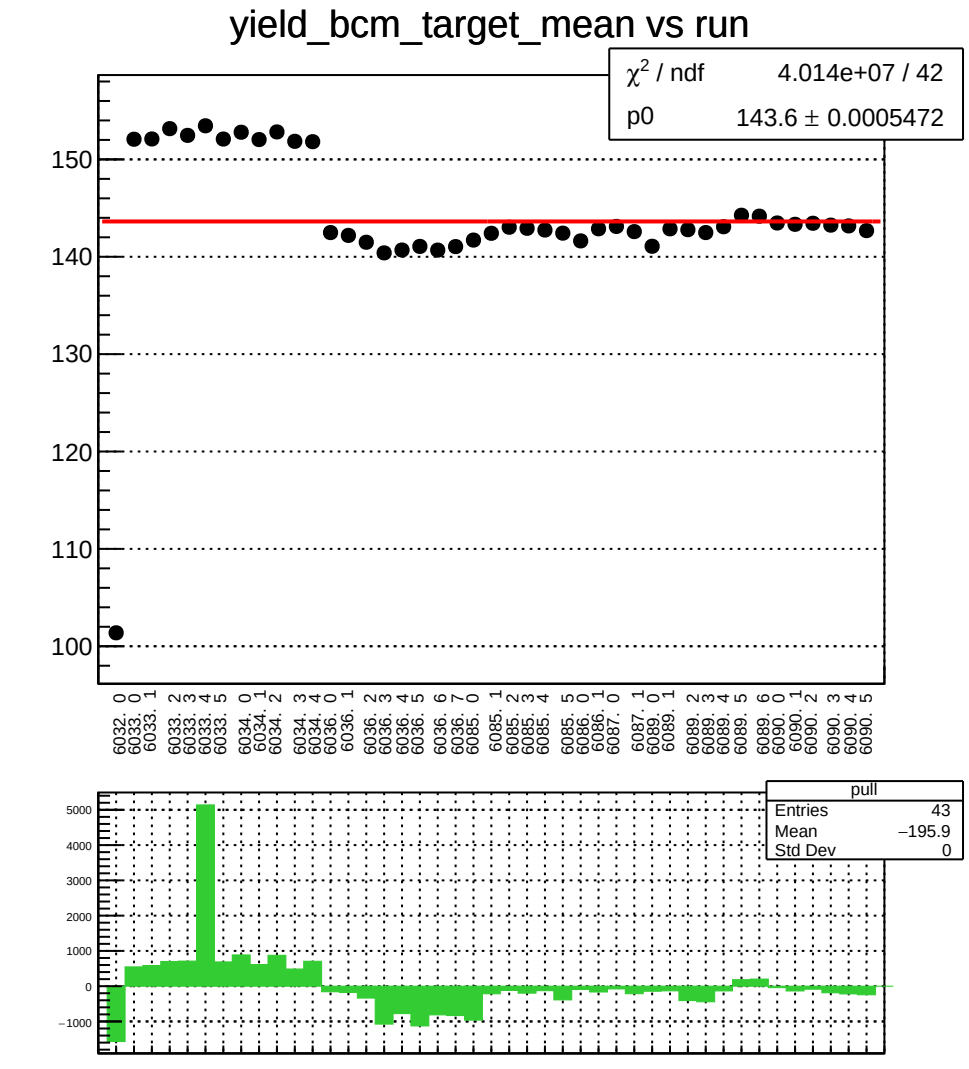

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.58 / 42
p0 366.9 ± 358.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 154.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

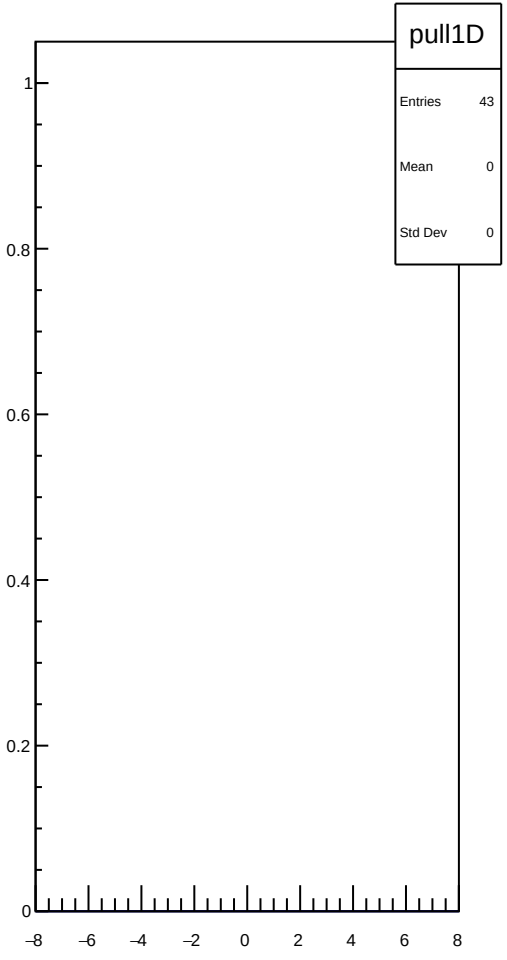

pull1D
Entries 43
Mean −0.01684
Std Dev 0.5617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

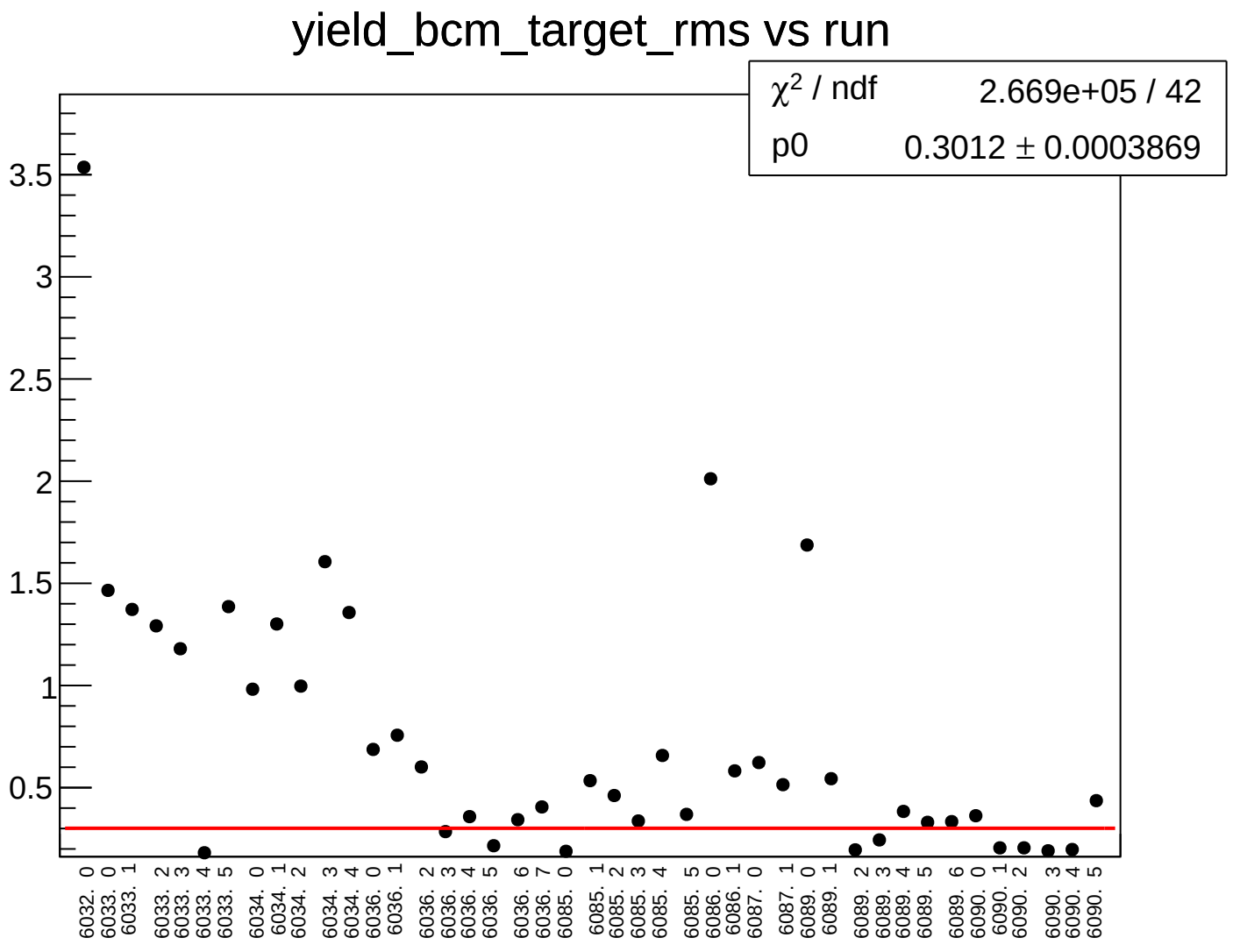

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.175e+04 / 42
p0 234 ± 0.2536
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

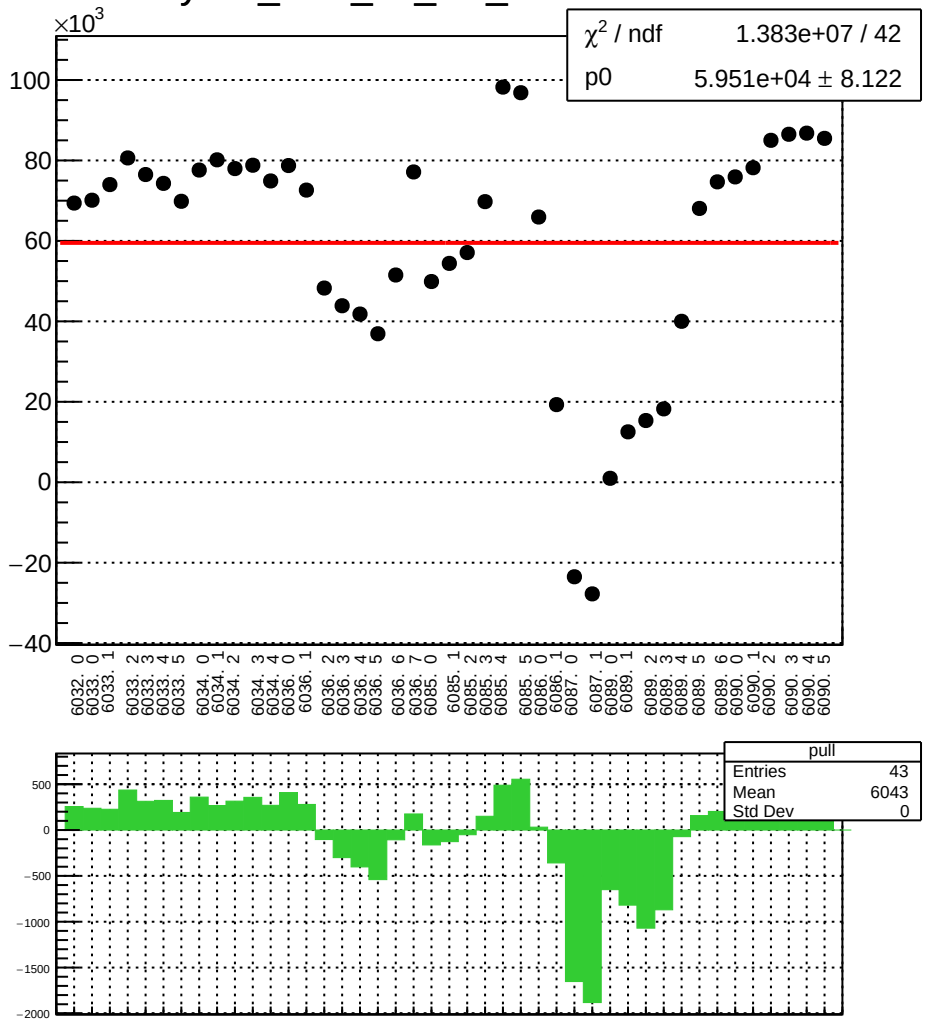

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 48.9 / 42
p0 −22.68 ± 43.85
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −99.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03545
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

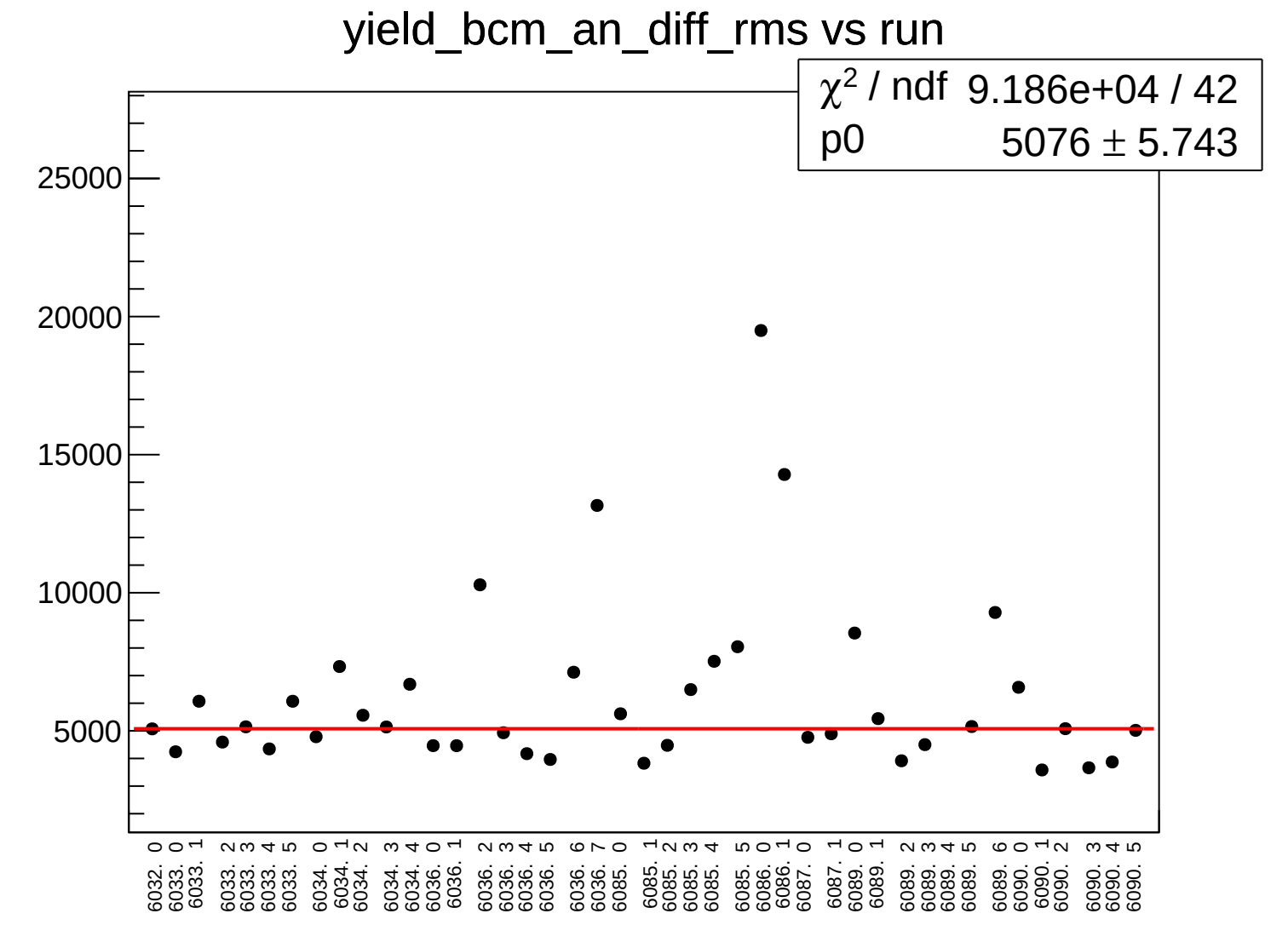

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2465 / 42
p0 28.93 ± 0.03101
33
32
31
30
29
28
27
26
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

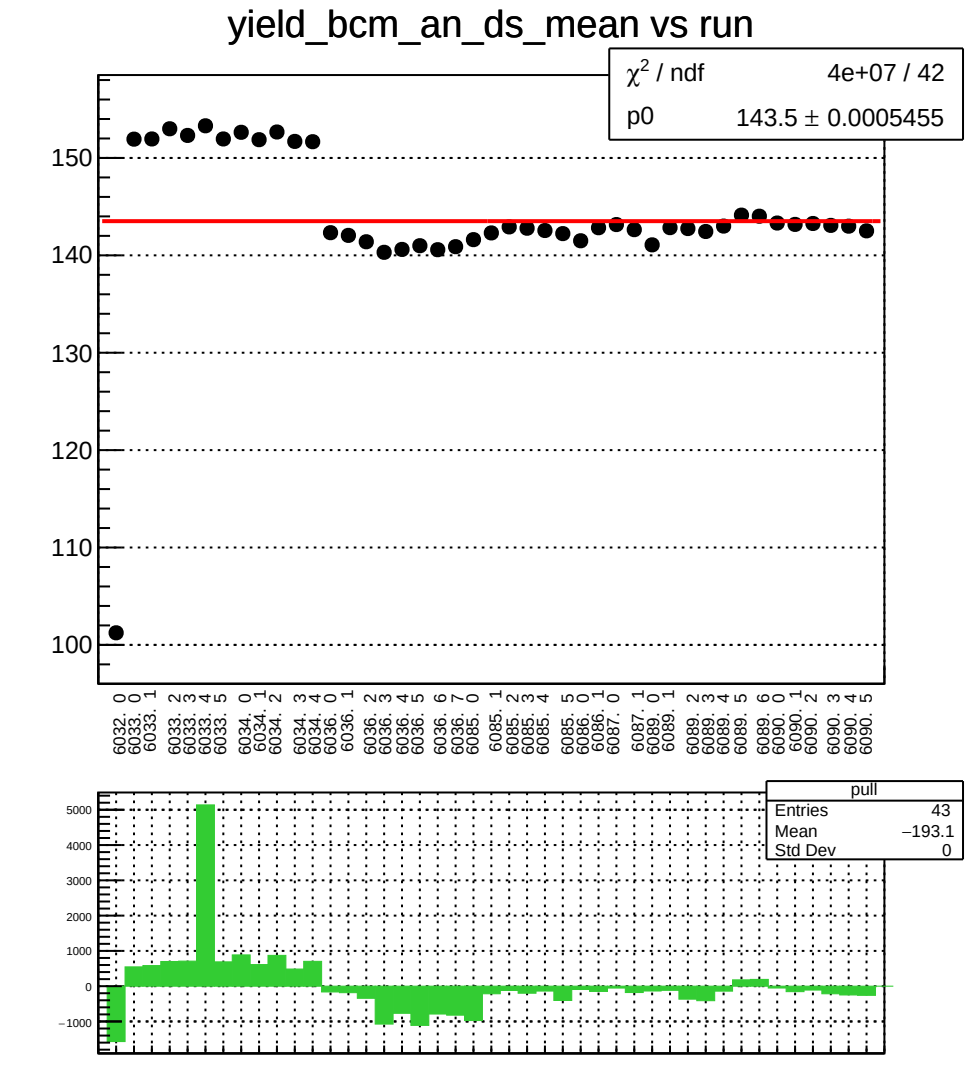

yield_bcm_target_mean vs run
χ² / ndf 4.014e+07 / 42
p0 143.6 ± 0.0005472
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −195.9
Std Dev 0
5000
4000
3000
2000
1000
0
−1000

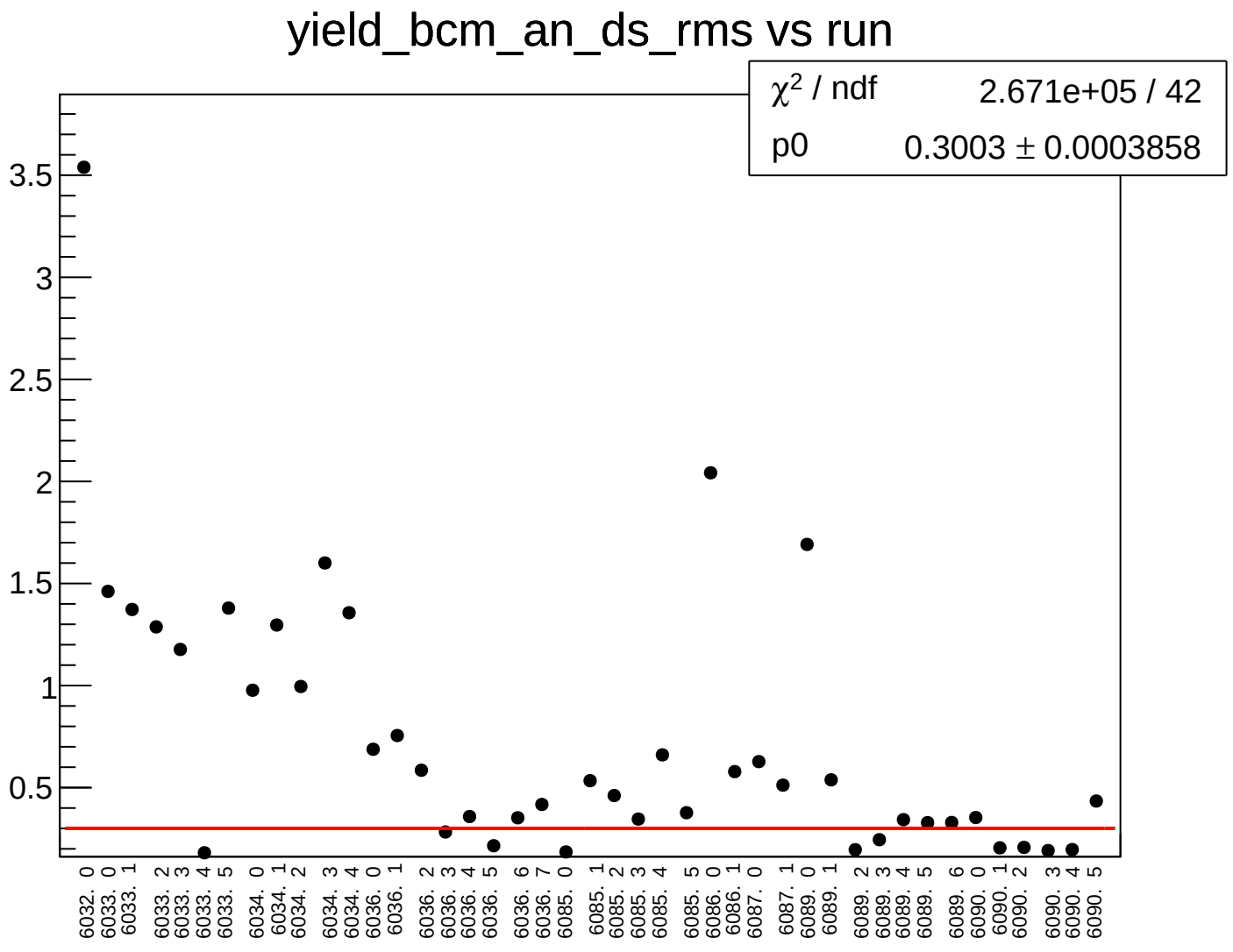

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

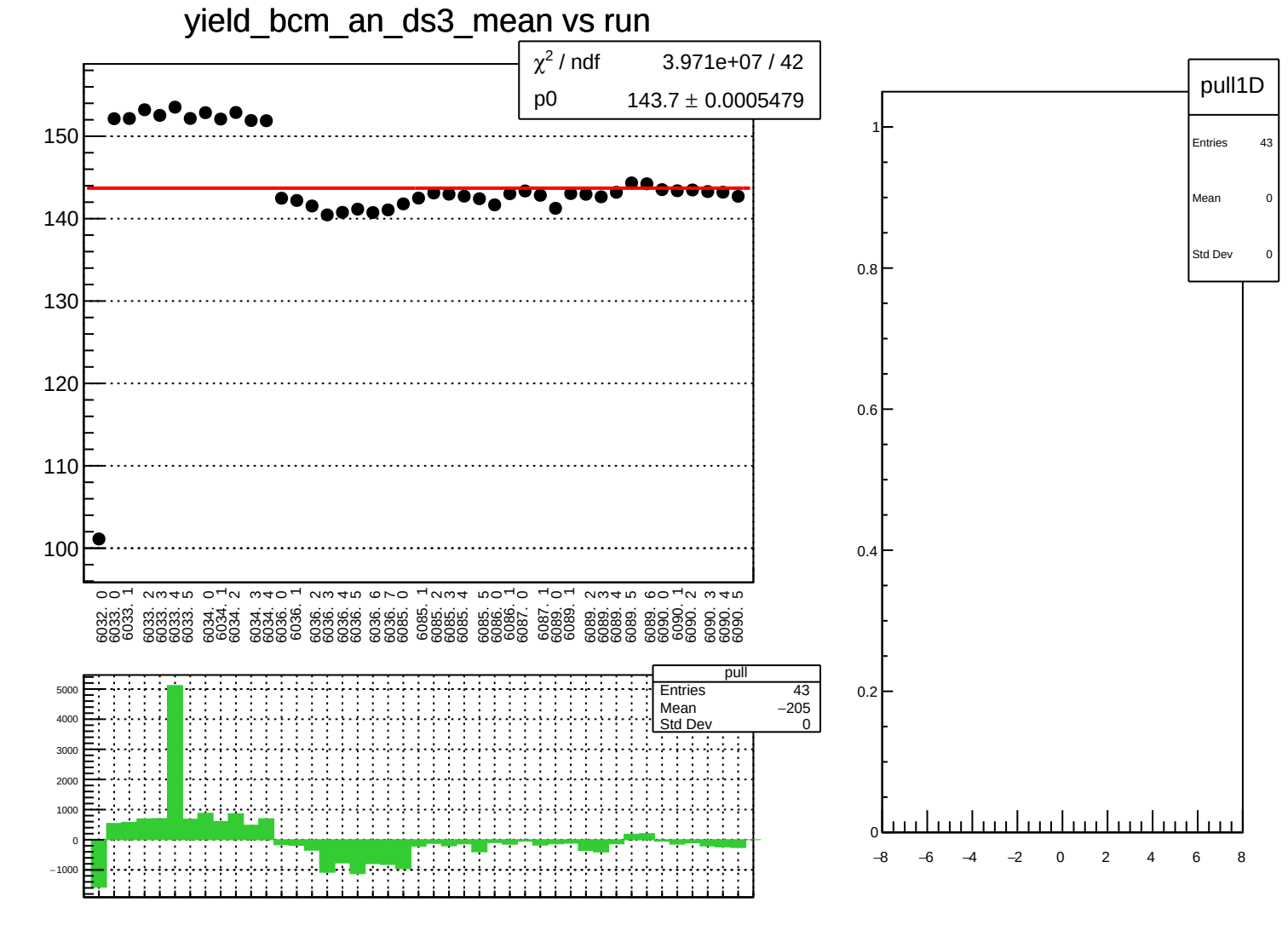

yield_bcm_target_rms vs run
χ² / ndf 2.669e+05 / 42
p0 0.3012 ± 0.0003869
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

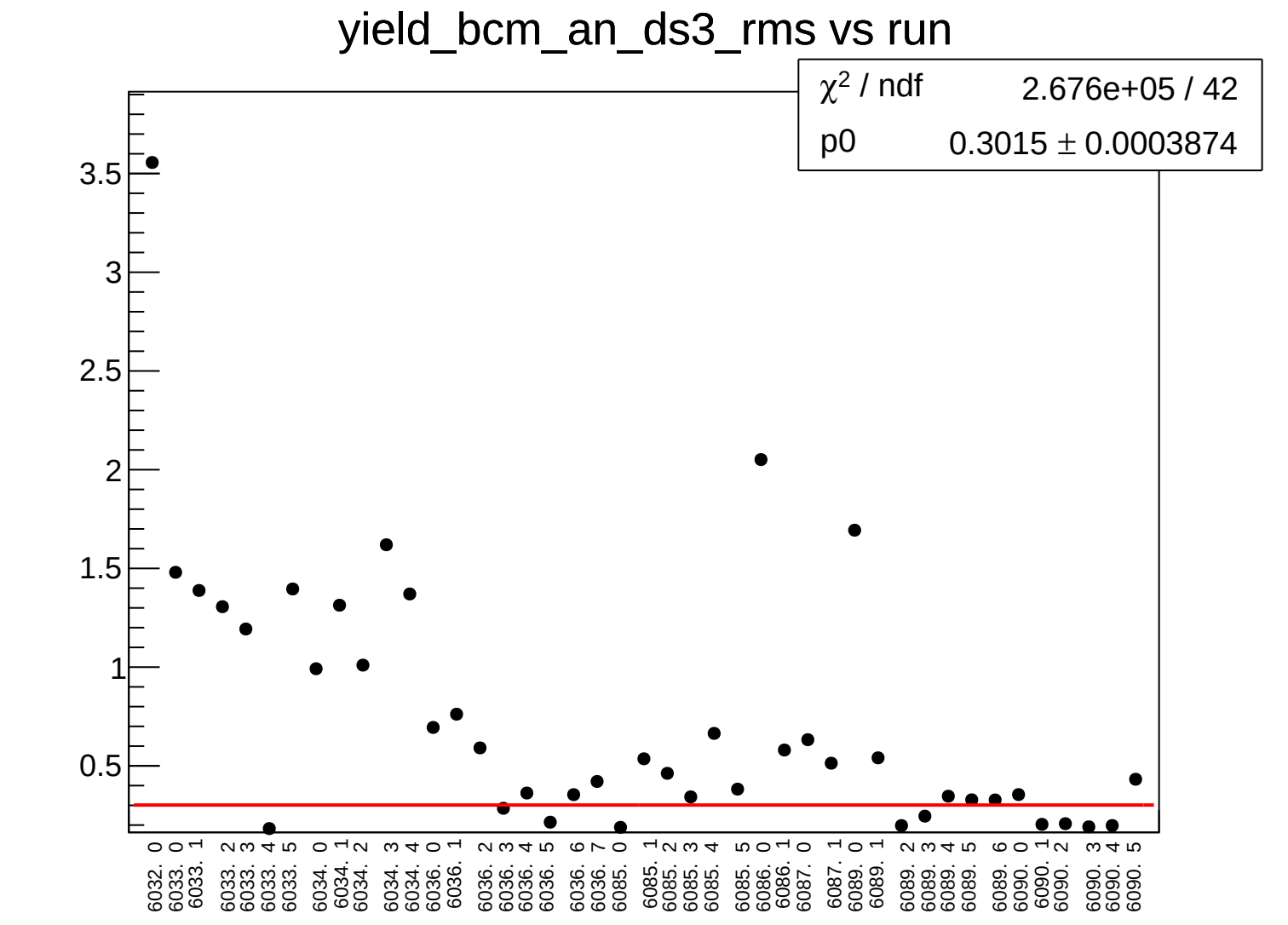

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.383e+07 / 42
p0 5.951e+04 ± 8.122
100
80
60
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6043
Std Dev 0
500
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

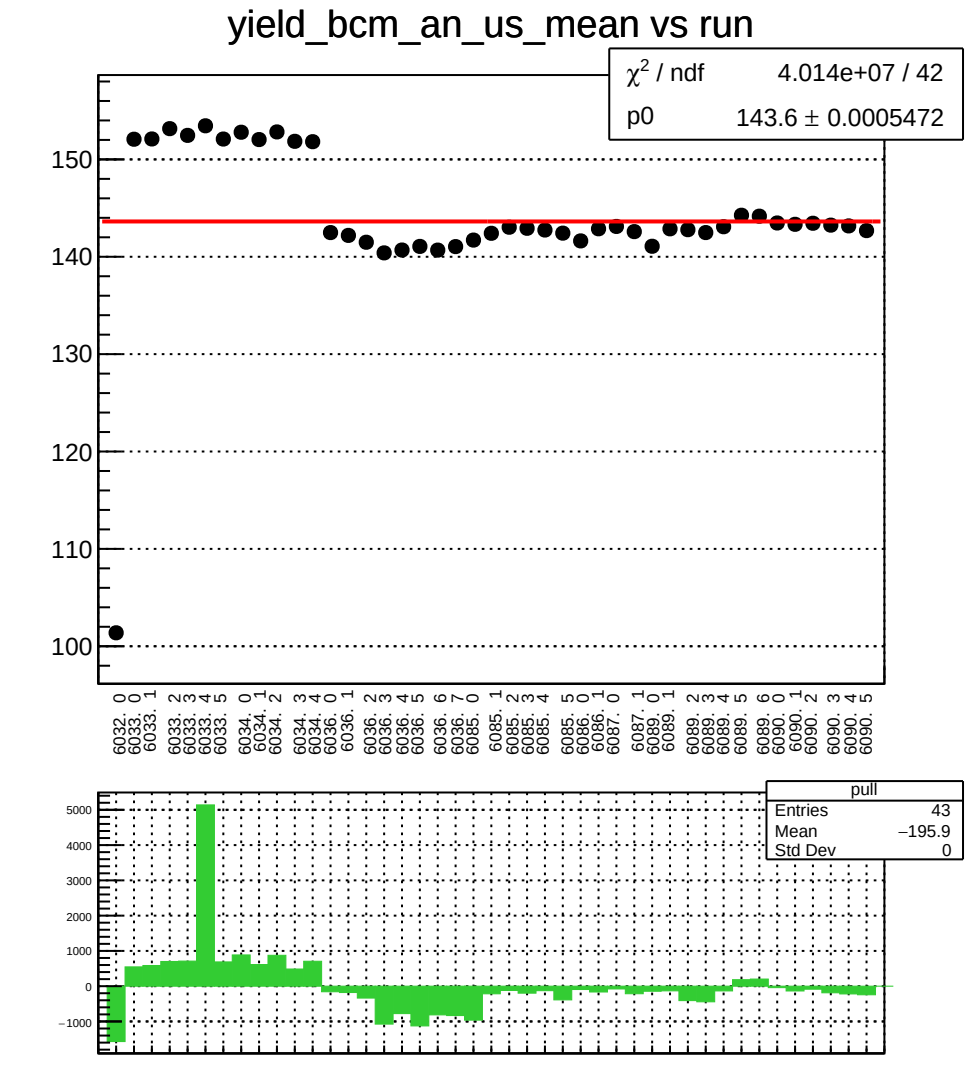

yield_bcm_an_diff_rms vs run
χ² / ndf 9.186e+04 / 42
p0 5076 ± 5.743
25000
20000
15000
10000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

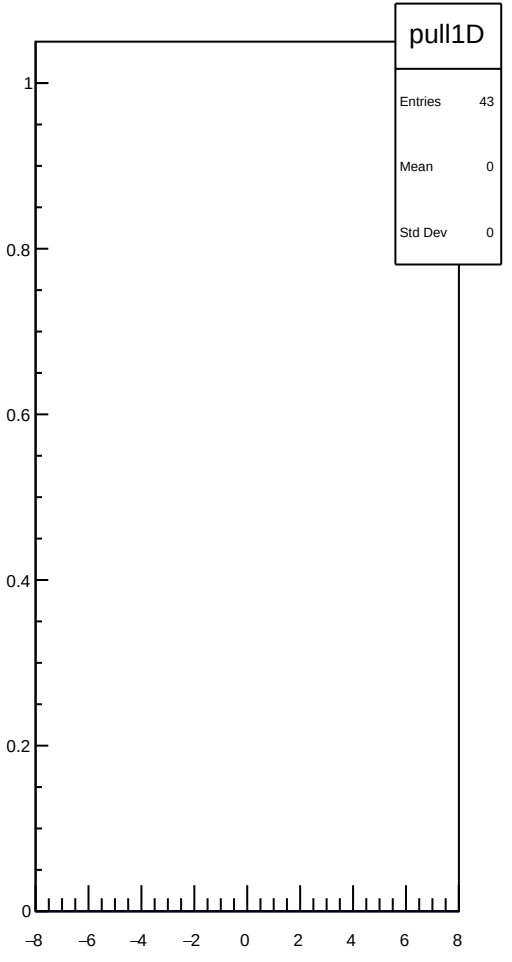

yield_bcm_an_ds_mean vs run
χ² / ndf 4e+07 / 42
p0 143.5 ± 0.0005455
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −193.1
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

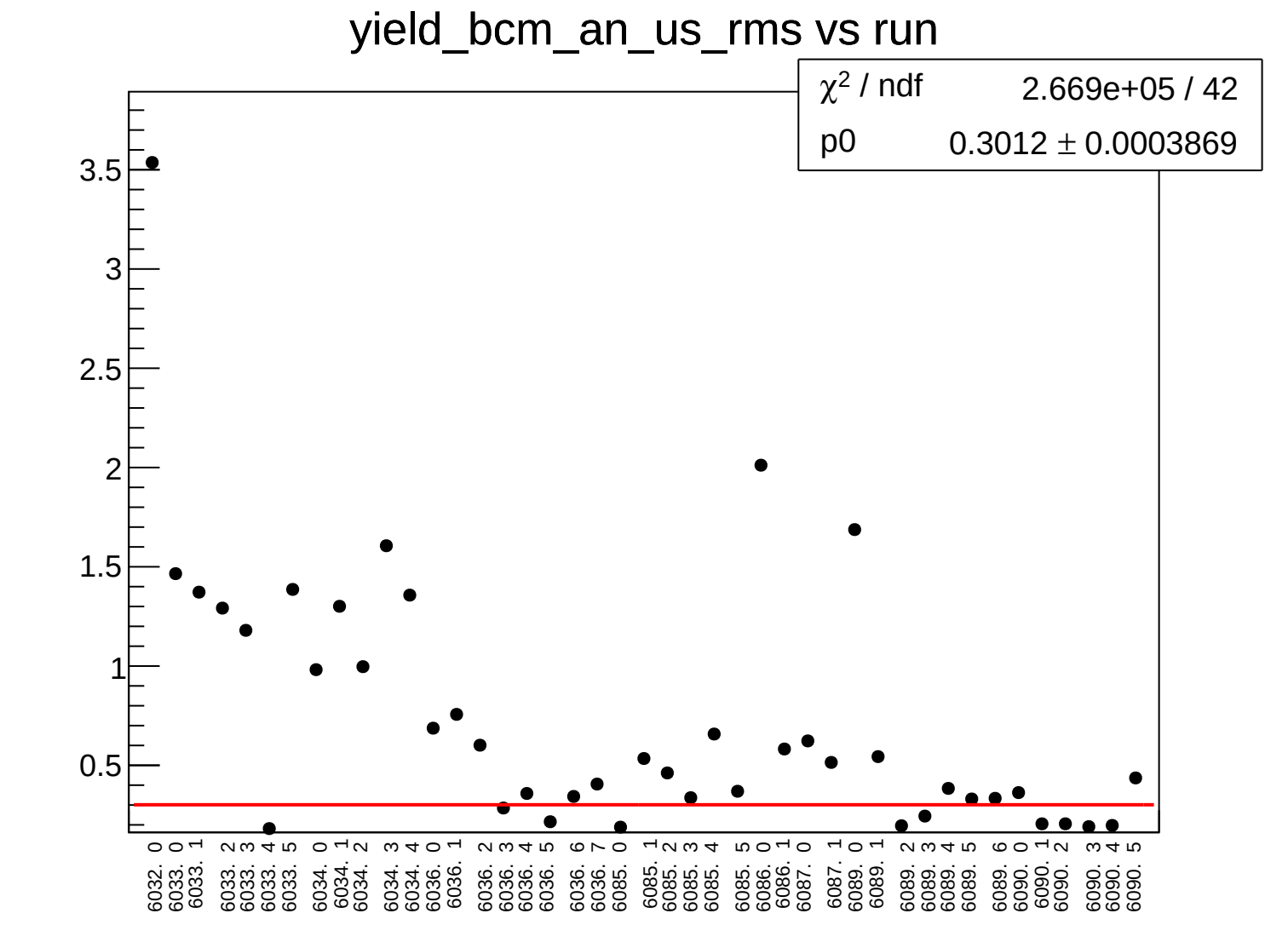

yield_bcm_an_ds_rms vs run
χ² / ndf 2.671e+05 / 42
p0 0.3003 ± 0.0003858
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

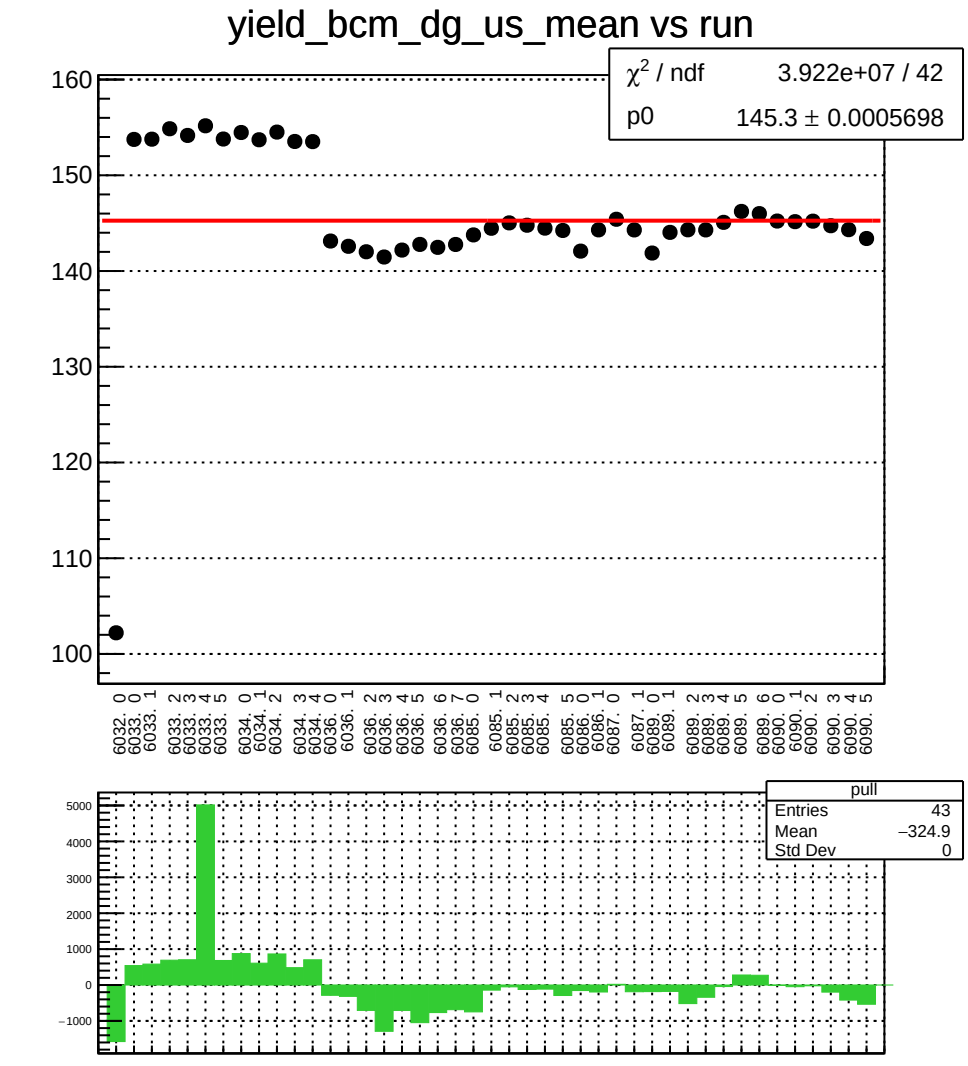

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.971e+07 / 42
p0 143.7 ± 0.0005479
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −205
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

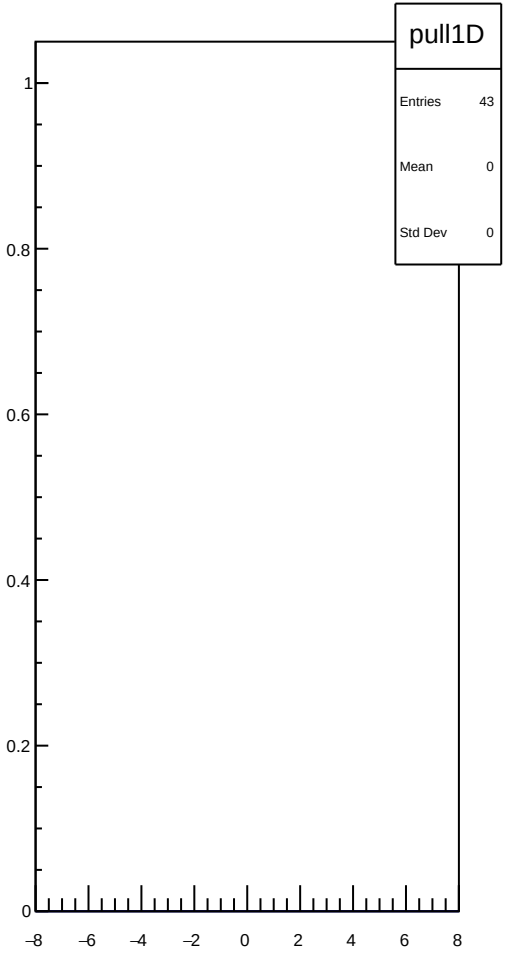

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.676e+05 / 42
p0 0.3015 ± 0.0003874
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

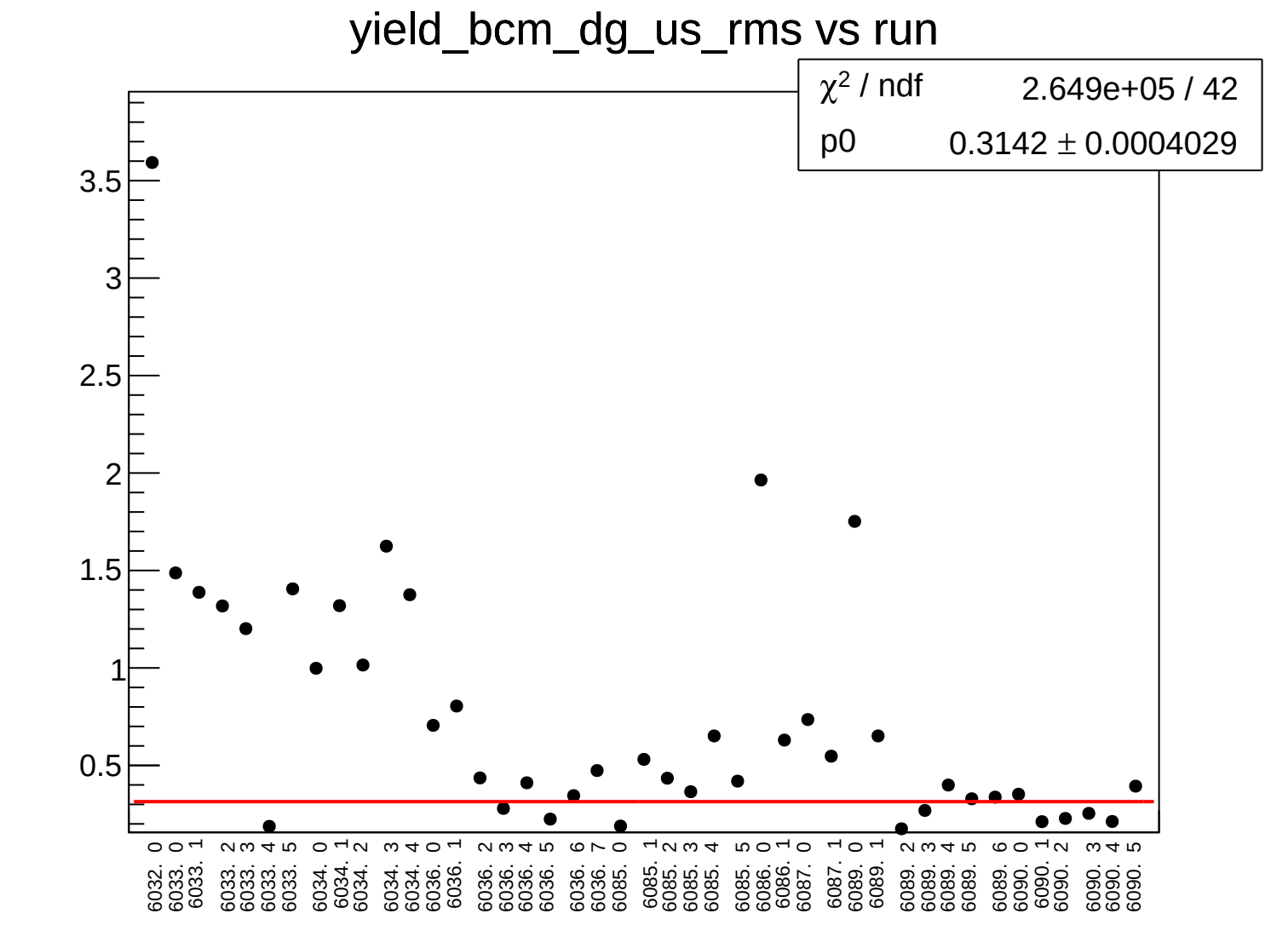

yield_bcm_an_us_mean vs run
χ² / ndf 4.014e+07 / 42
p0 143.6 ± 0.0005472
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −195.9
Std Dev 0
5000
4000
3000
2000
1000
0
−1000

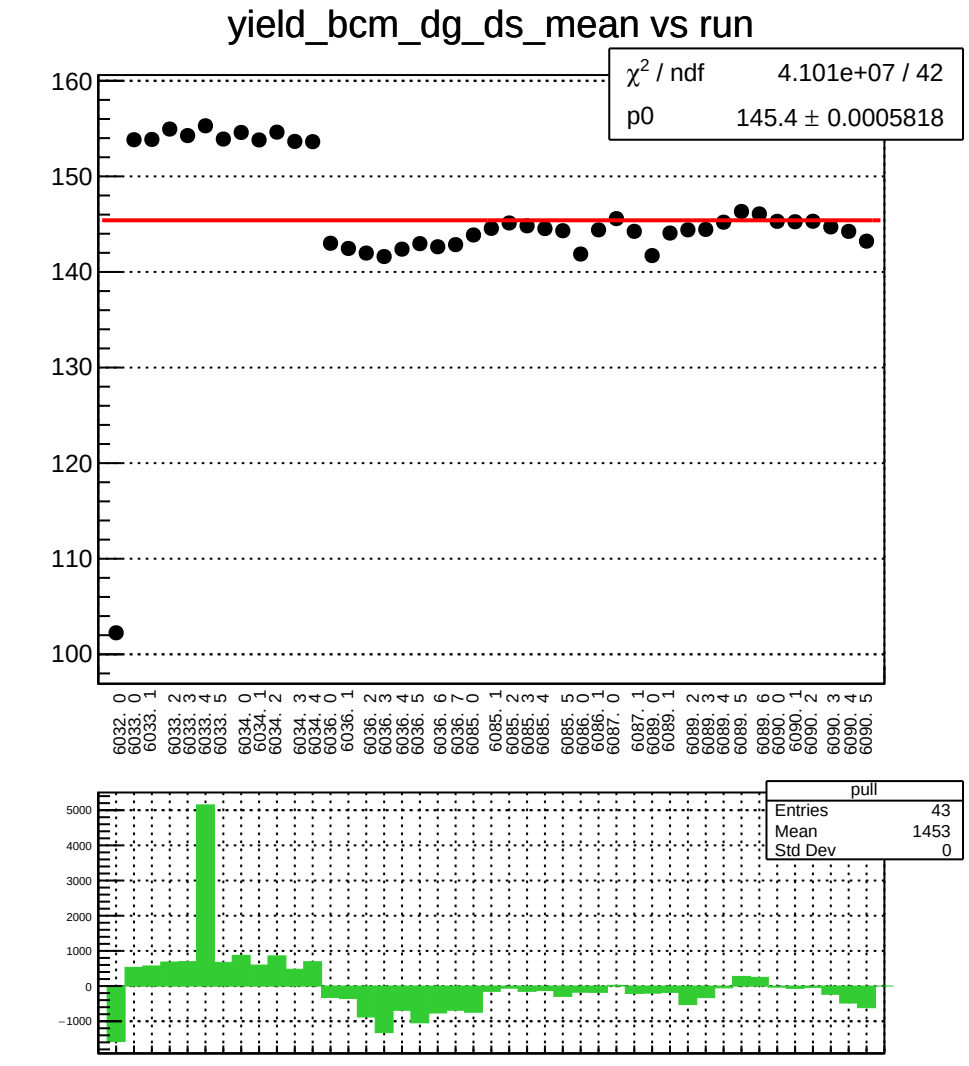

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

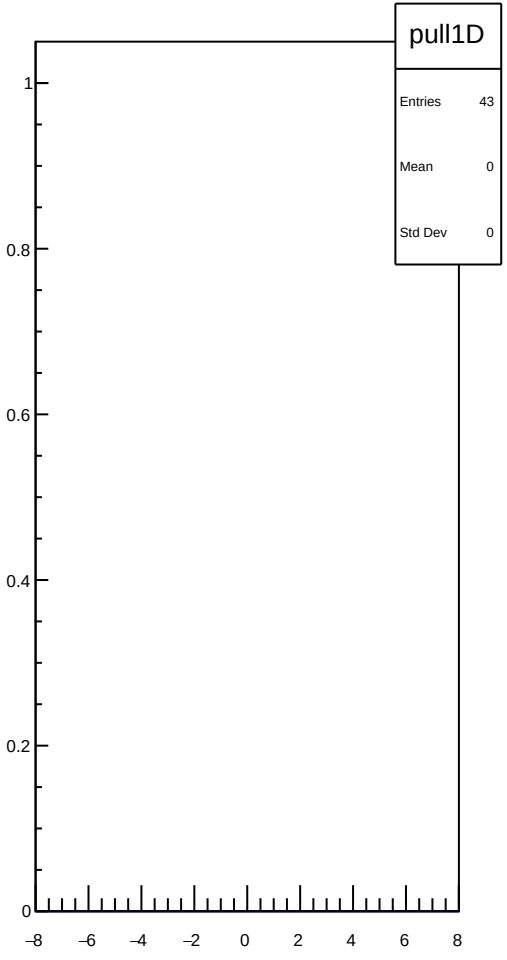

yield_bcm_an_us_rms vs run
χ² / ndf 2.669e+05 / 42
p0 0.3012 ± 0.0003869
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

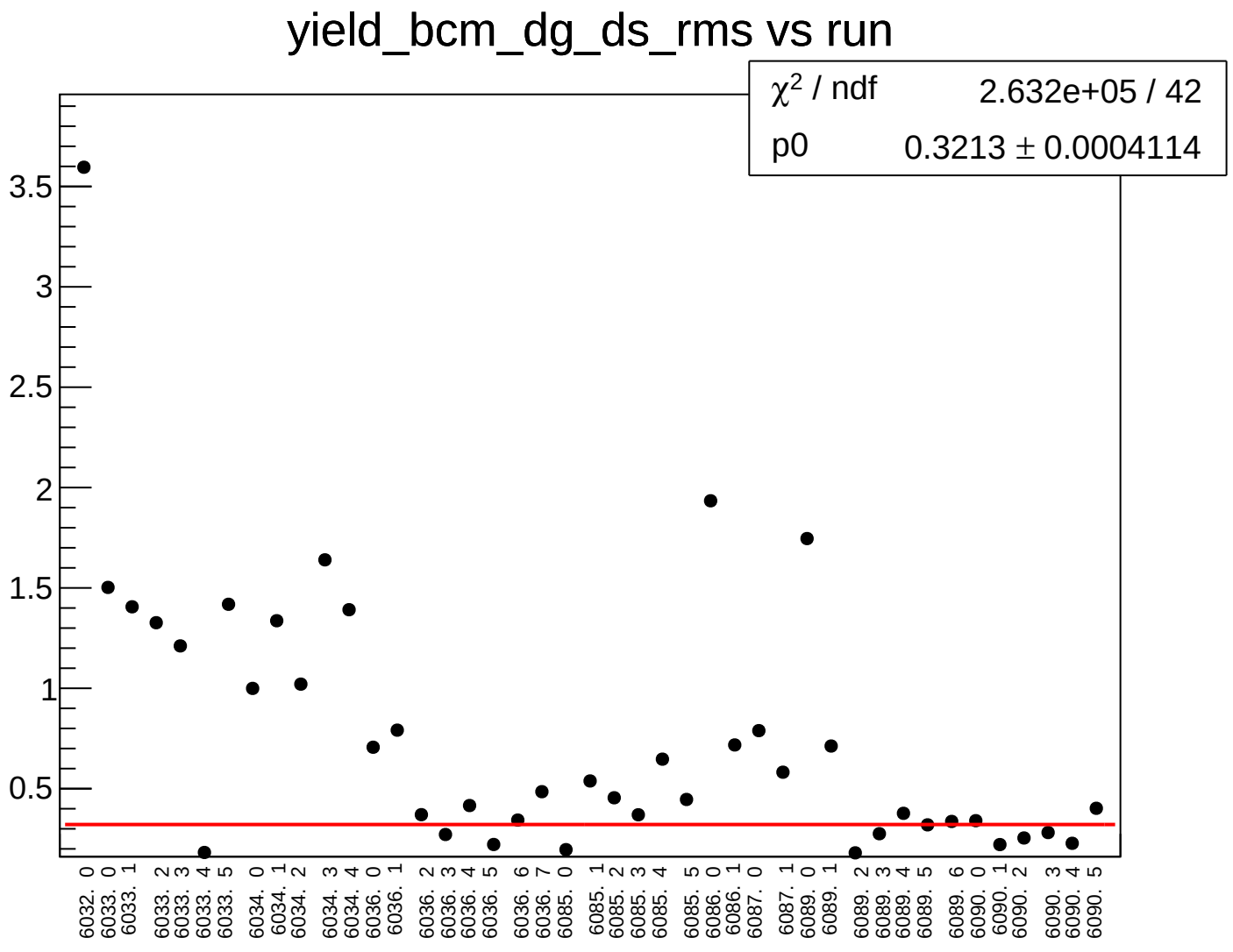

yield_bcm_dg_us_mean vs run
χ² / ndf 3.922e+07 / 42
p0 145.3 ± 0.0005698
160
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −324.9
Std Dev 0
5000
4000
3000
2000
1000
0
−1000

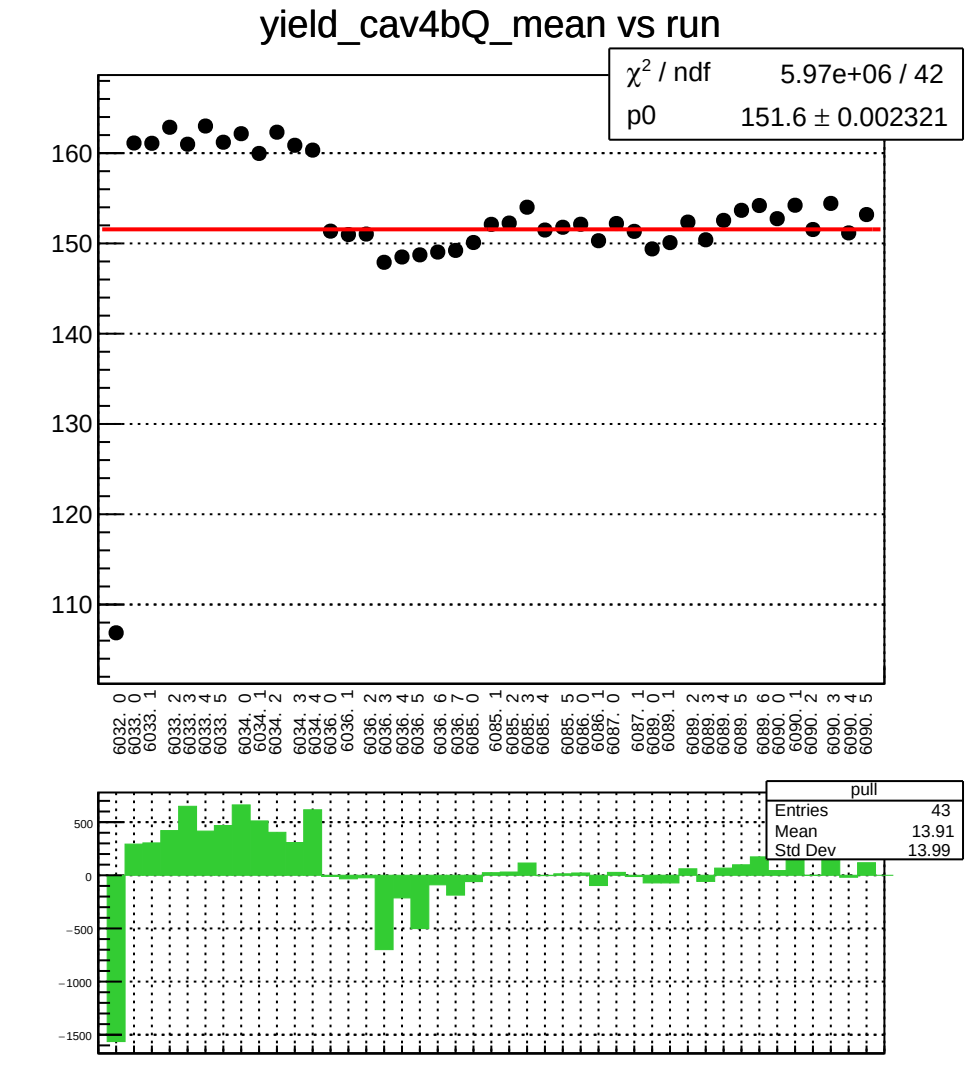

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

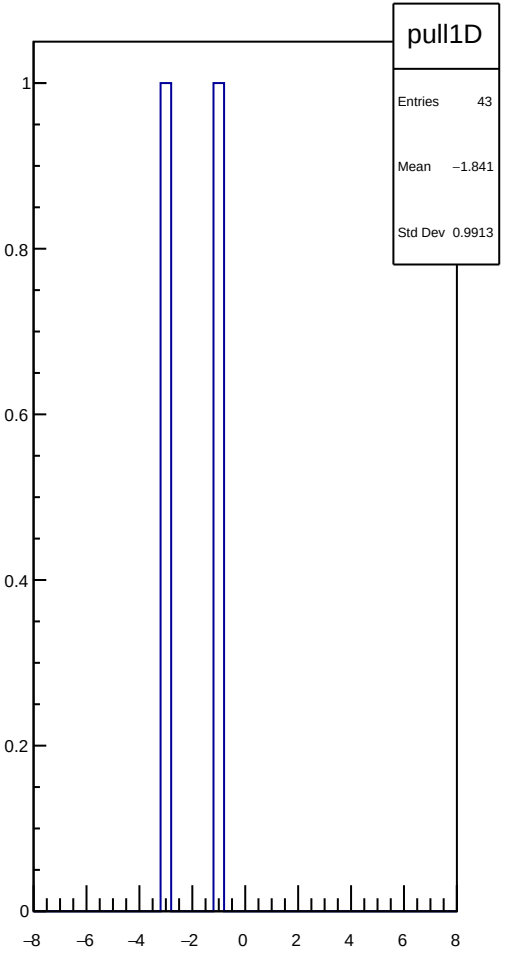

yield_bcm_dg_us_rms vs run
χ² / ndf 2.649e+05 / 42
p0 0.3142 ± 0.0004029
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

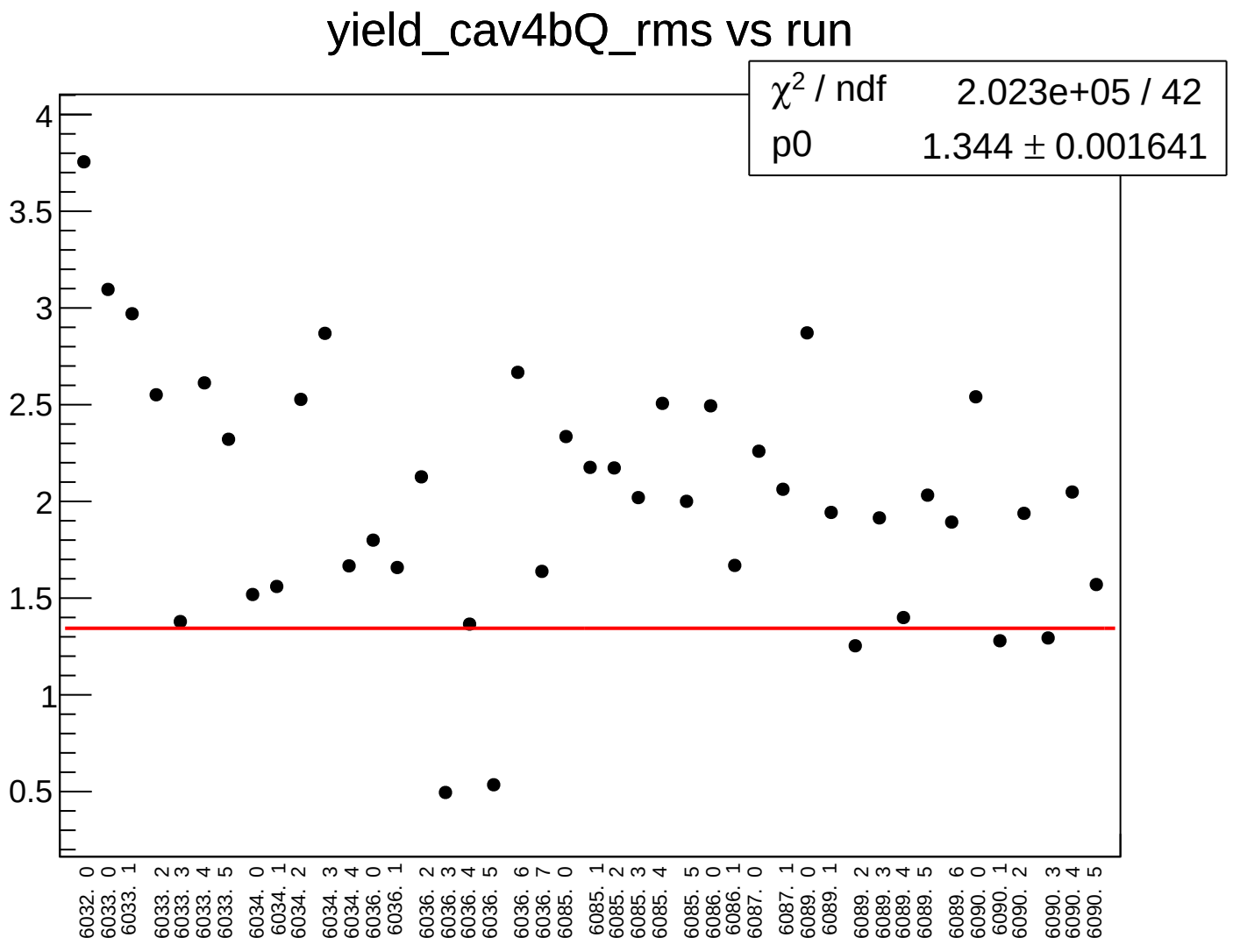

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.101e+07 / 42
p0 145.4 ± 0.0005818
160
150
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1453
Std Dev 0
5000
4000
3000
2000
1000
0
−1000

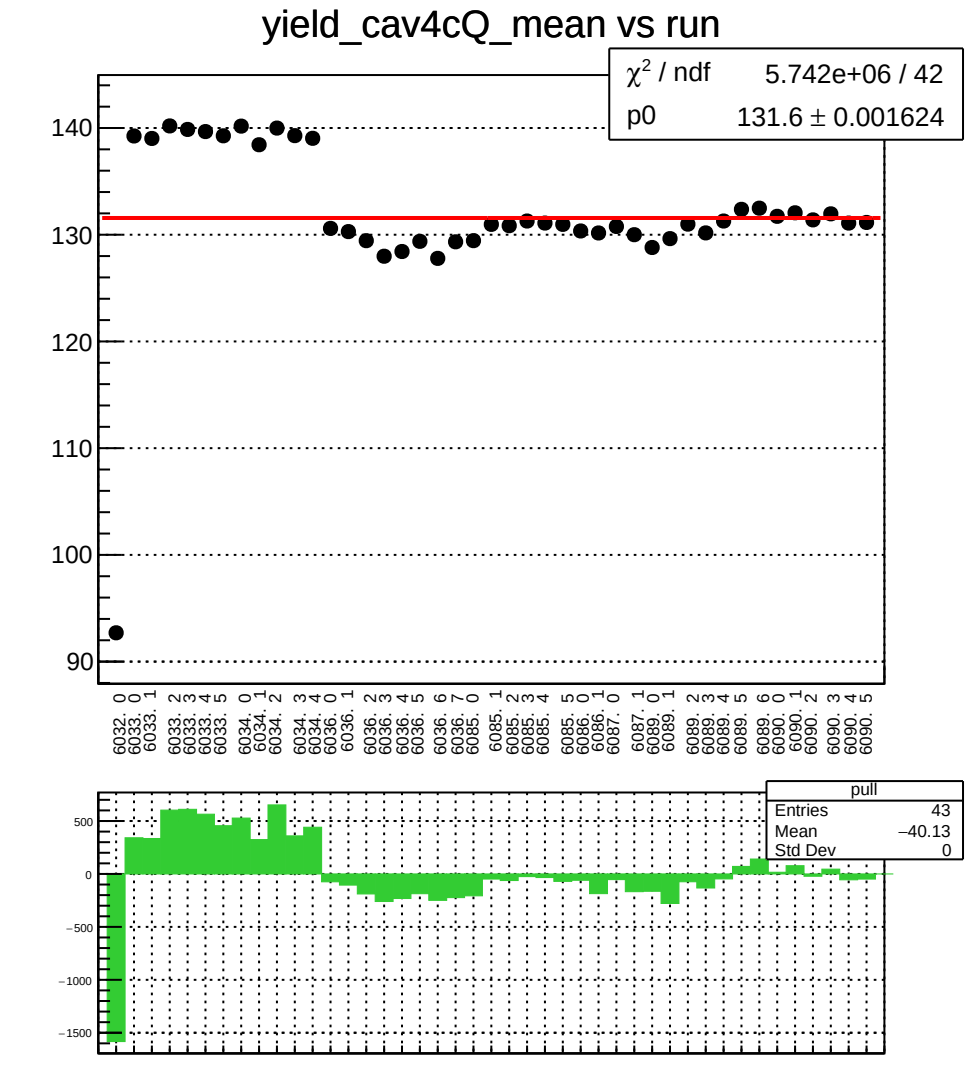

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

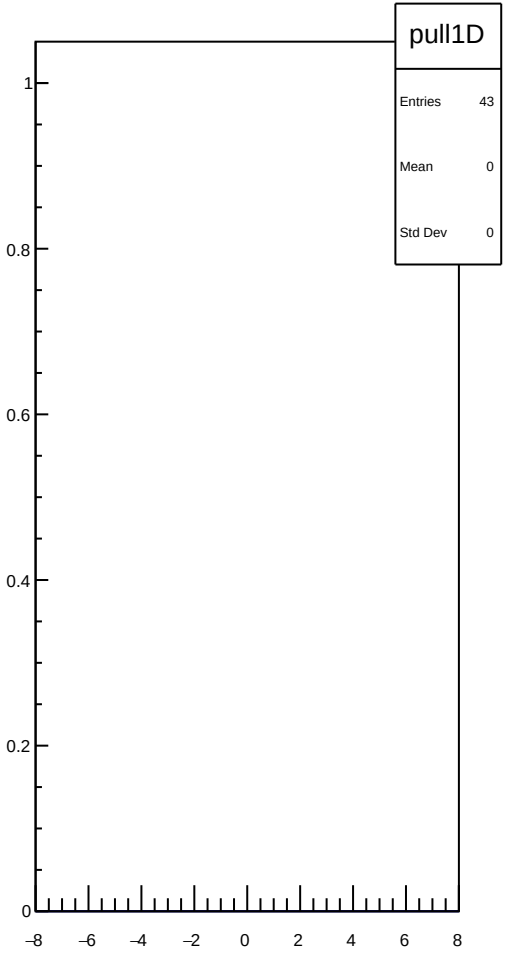

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.632e+05 / 42
p0 0.3213 ± 0.0004114
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

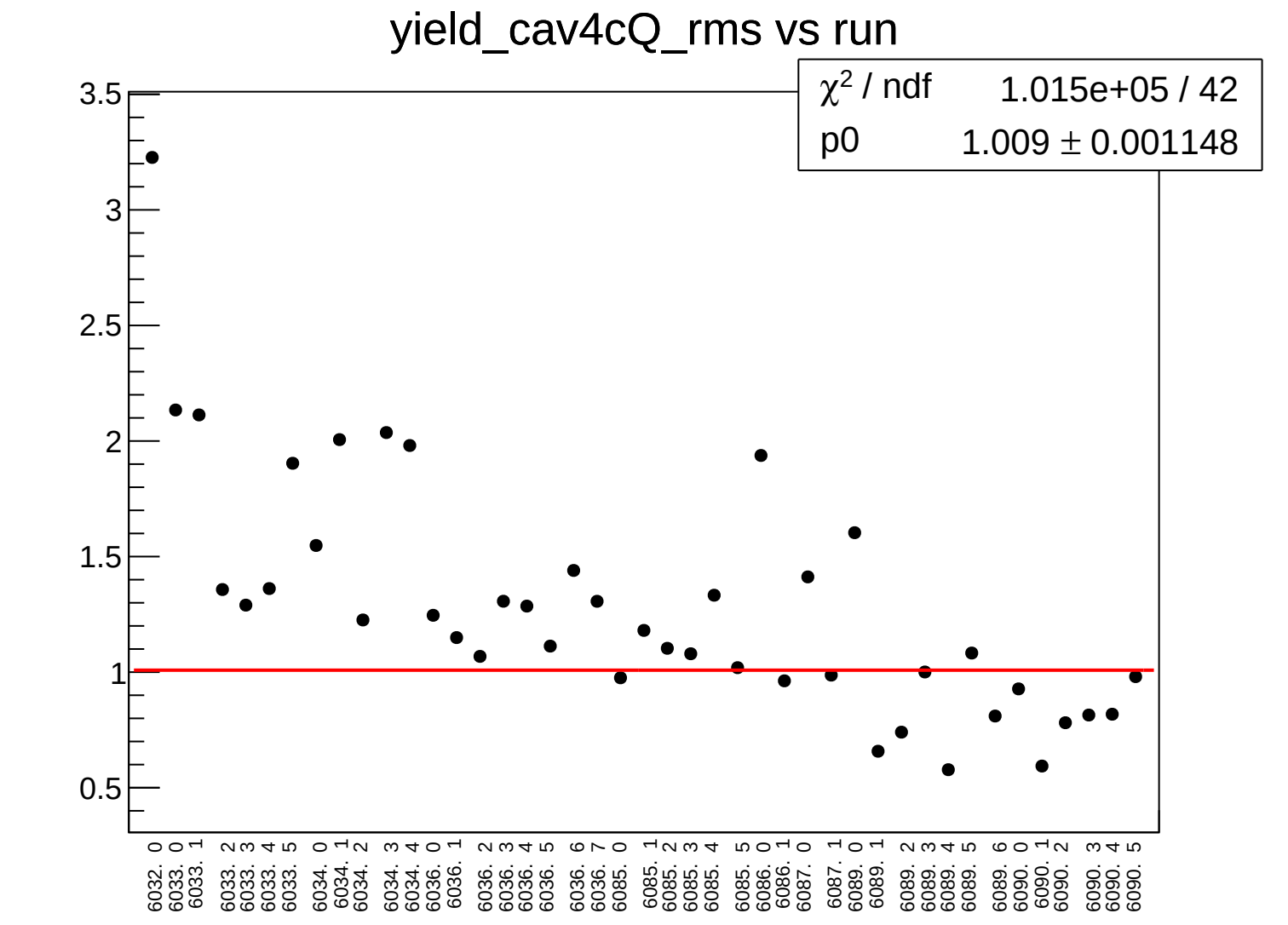

yield_cav4bQ_mean vs run
χ² / ndf 5.97e+06 / 42
p0 151.6 ± 0.002321
160
150
140
130
120
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.91
Std Dev 13.99
500
0
−500
−1000
−1500

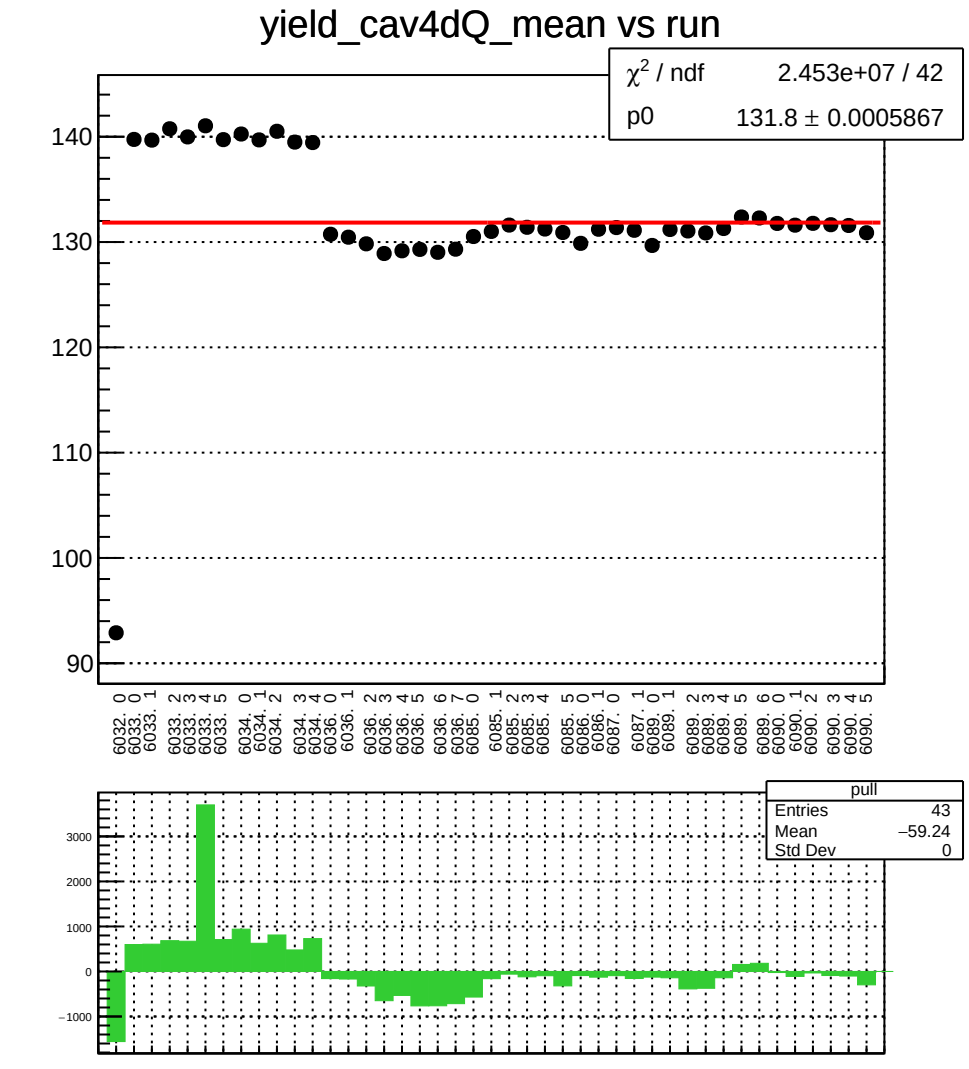

pull1D
Entries 43
Mean −1.841
Std Dev 0.9913
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

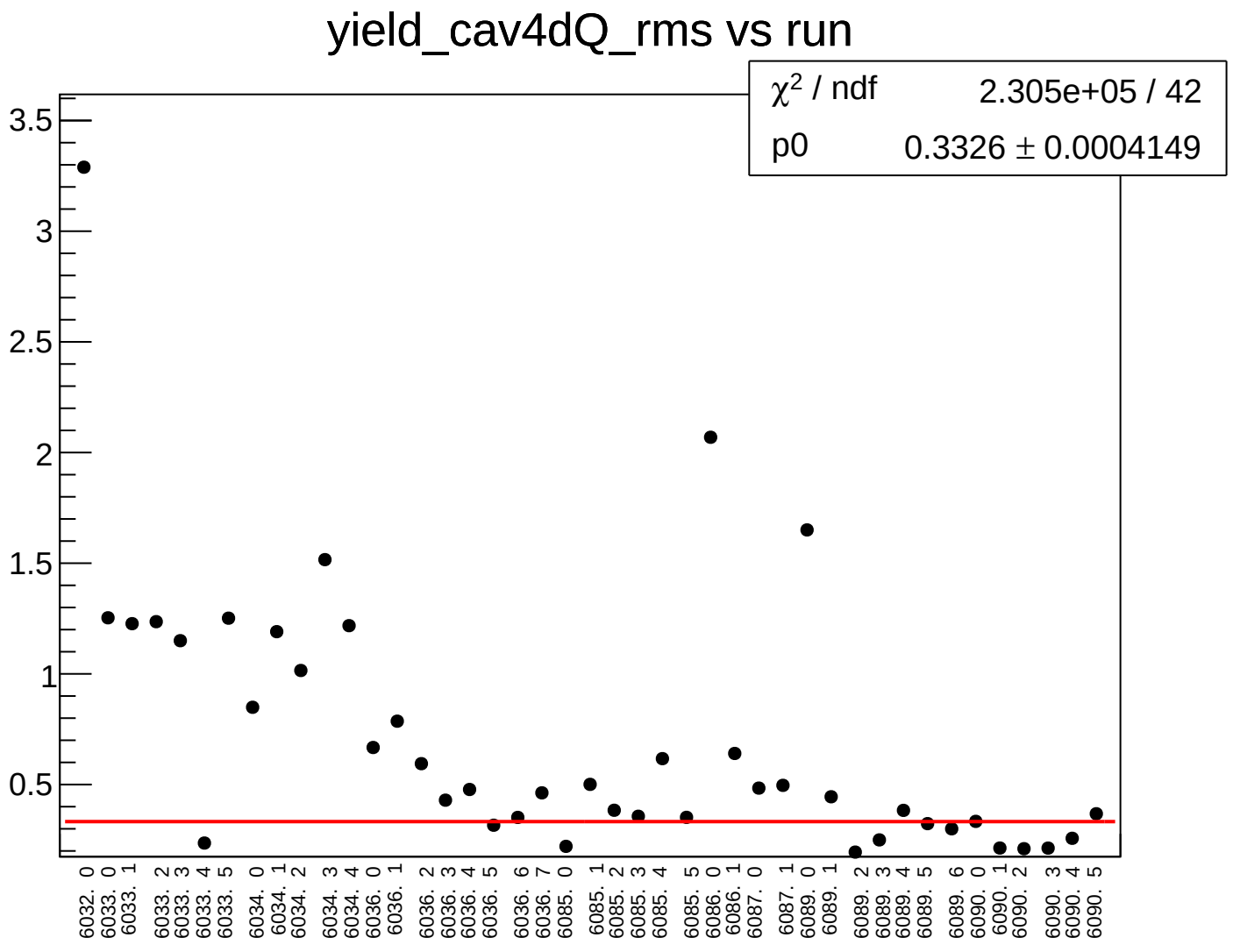

yield_cav4bQ_rms vs run
χ² / ndf 2.023e+05 / 42
p0 1.344 ± 0.001641
4
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

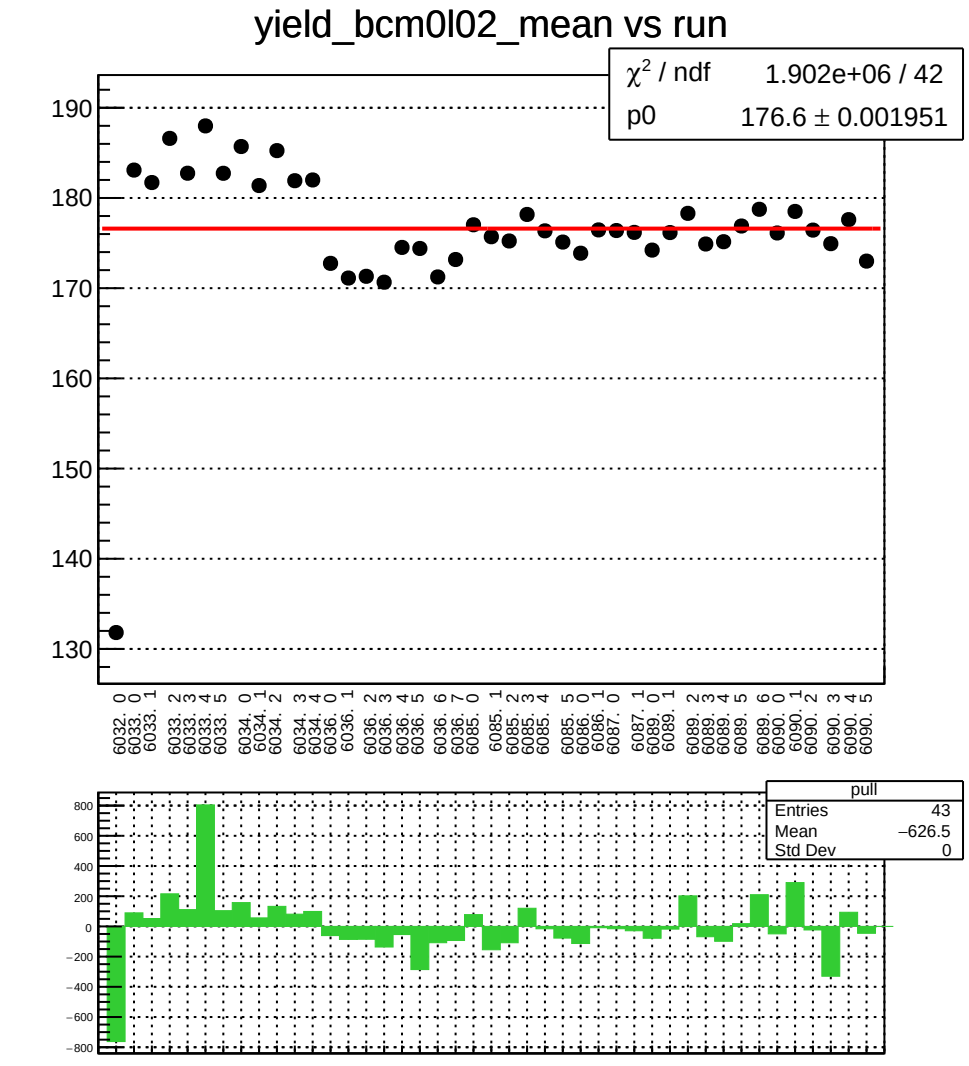

yield_cav4cQ_mean vs run
χ² / ndf 5.742e+06 / 42
p0 131.6 ± 0.001624
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −40.13
Std Dev 0
500
0
−500
−1000
−1500

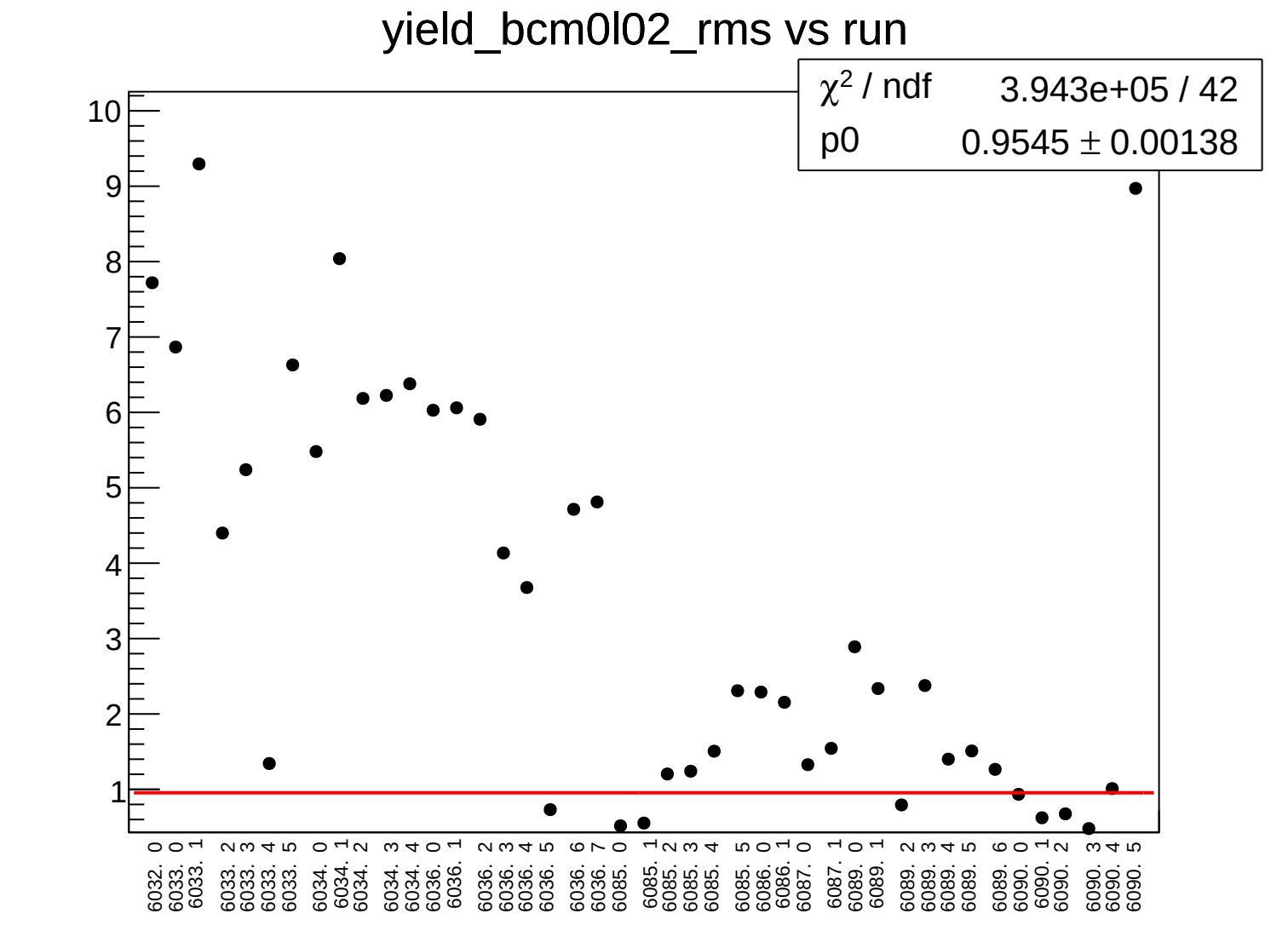

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

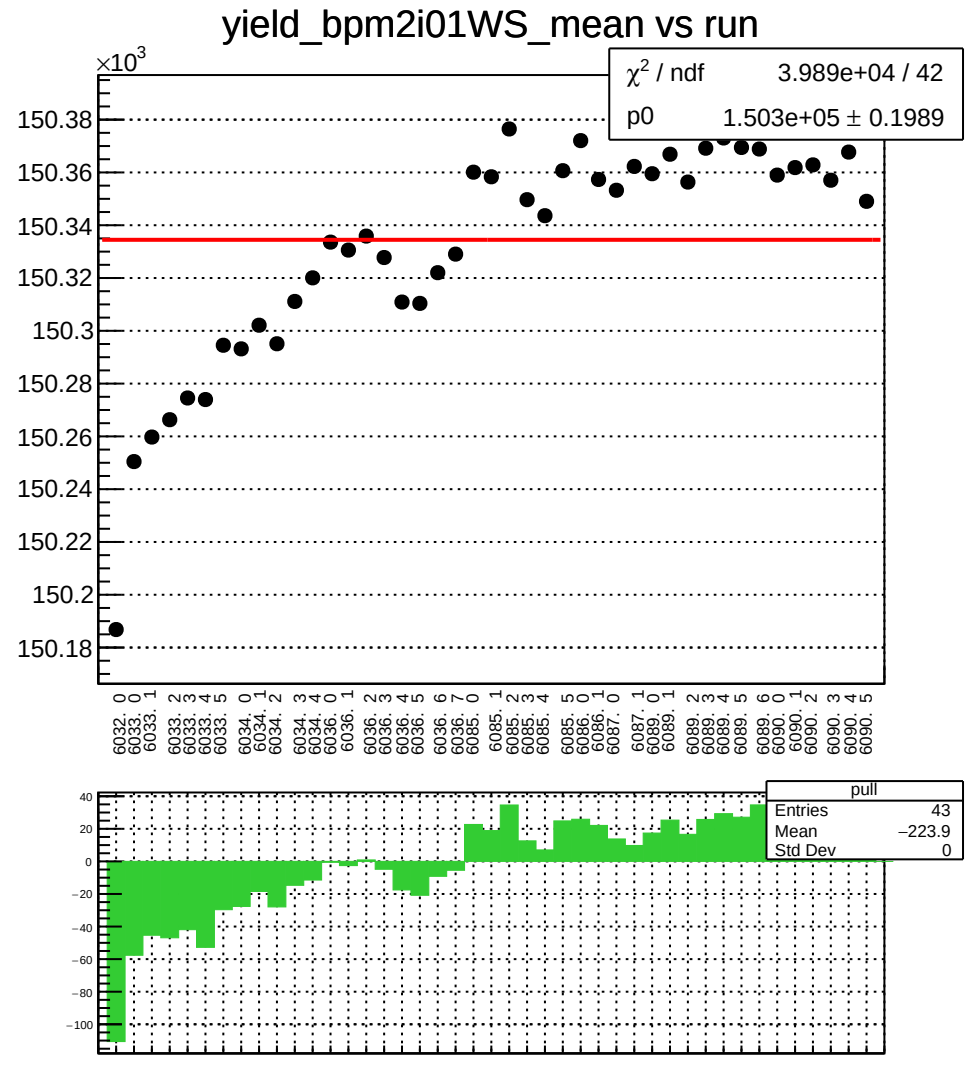

yield_cav4cQ_rms vs run
χ² / ndf 1.015e+05 / 42
p0 1.009 ± 0.001148
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

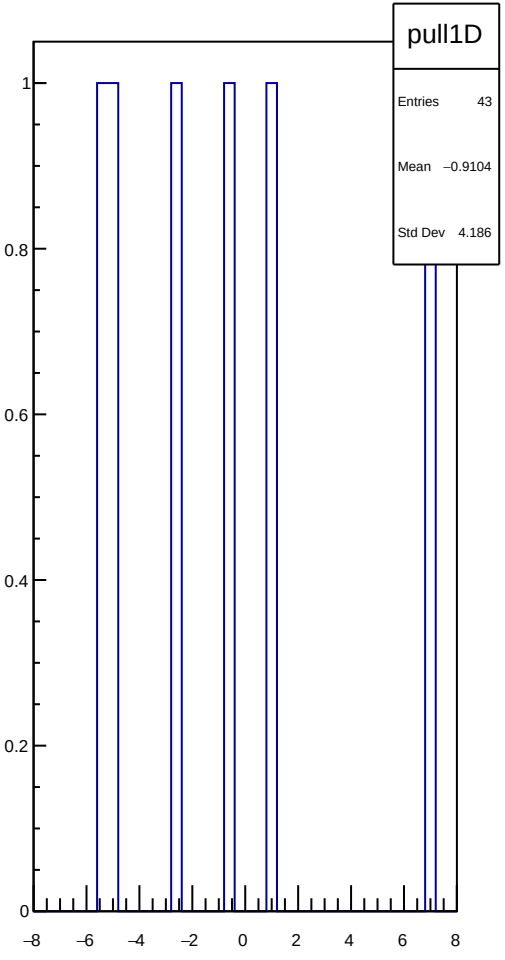

yield_cav4dQ_mean vs run
χ² / ndf 2.453e+07 / 42
p0 131.8 ± 0.0005867
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean –59.24
Std Dev 0
3000
2000
1000
0
–1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

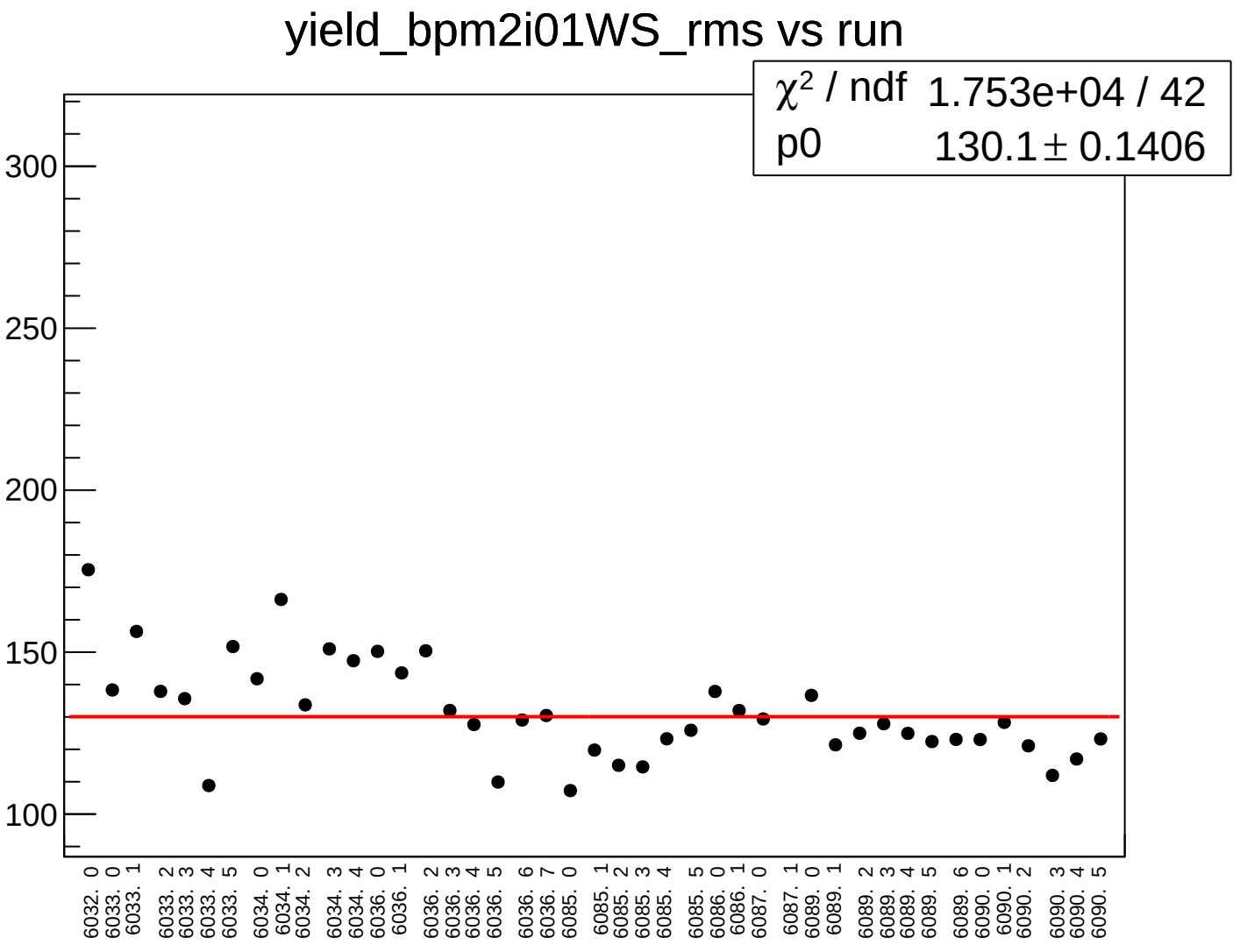

yield_cav4dQ_rms vs run
χ² / ndf 2.305e+05 / 42
p0 0.3326 ± 0.0004149
3.5
3
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

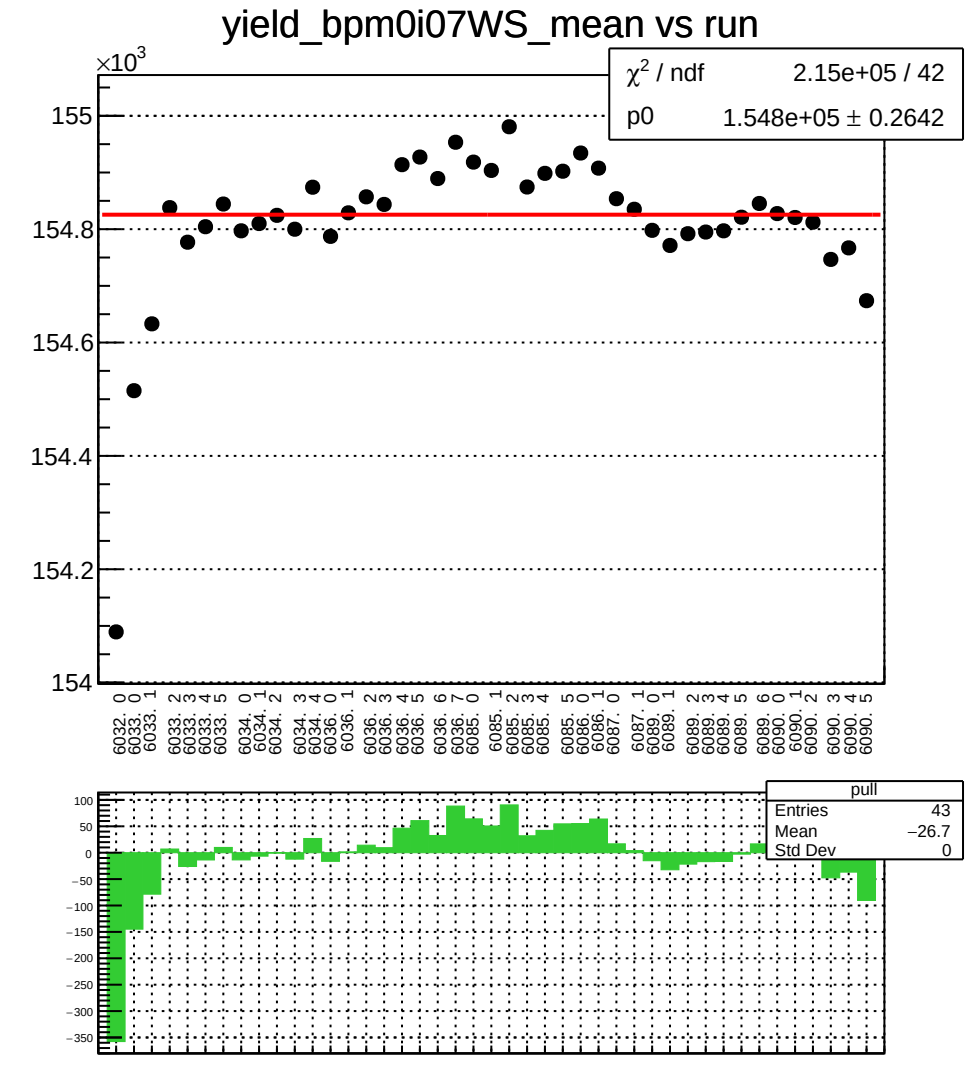

yield_bcm0l02_mean vs run
χ² / ndf 1.902e+06 / 42
p0 176.6 ± 0.001951
190
180
170
160
150
140
130
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −626.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

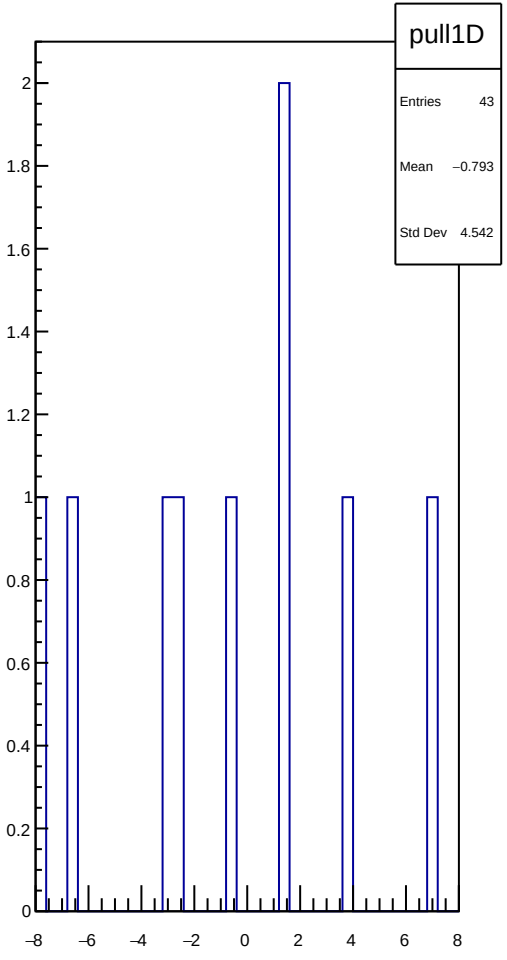

yield_bcm0l02_rms vs run
χ^2 / ndf 3.943e+05 / 42
p0 0.9545 ± 0.00138
10
9
8
7
6
5
4
3
2
1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

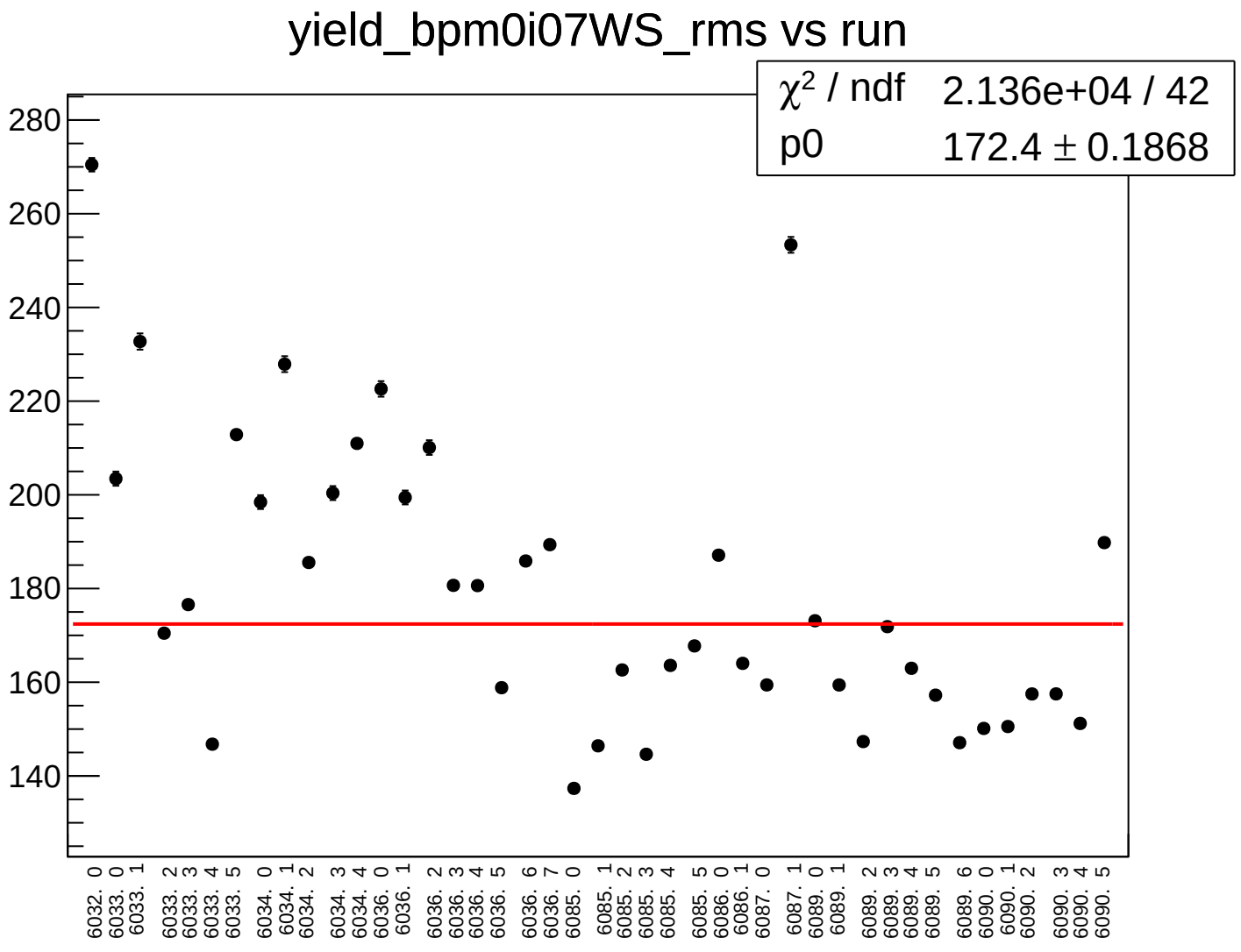

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.989e+04 / 42
p0 1.503e+05 ± 0.1989
150.38
150.36
150.34
150.32
150.3
150.28
150.26
150.24
150.22
150.2
150.18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −223.9
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

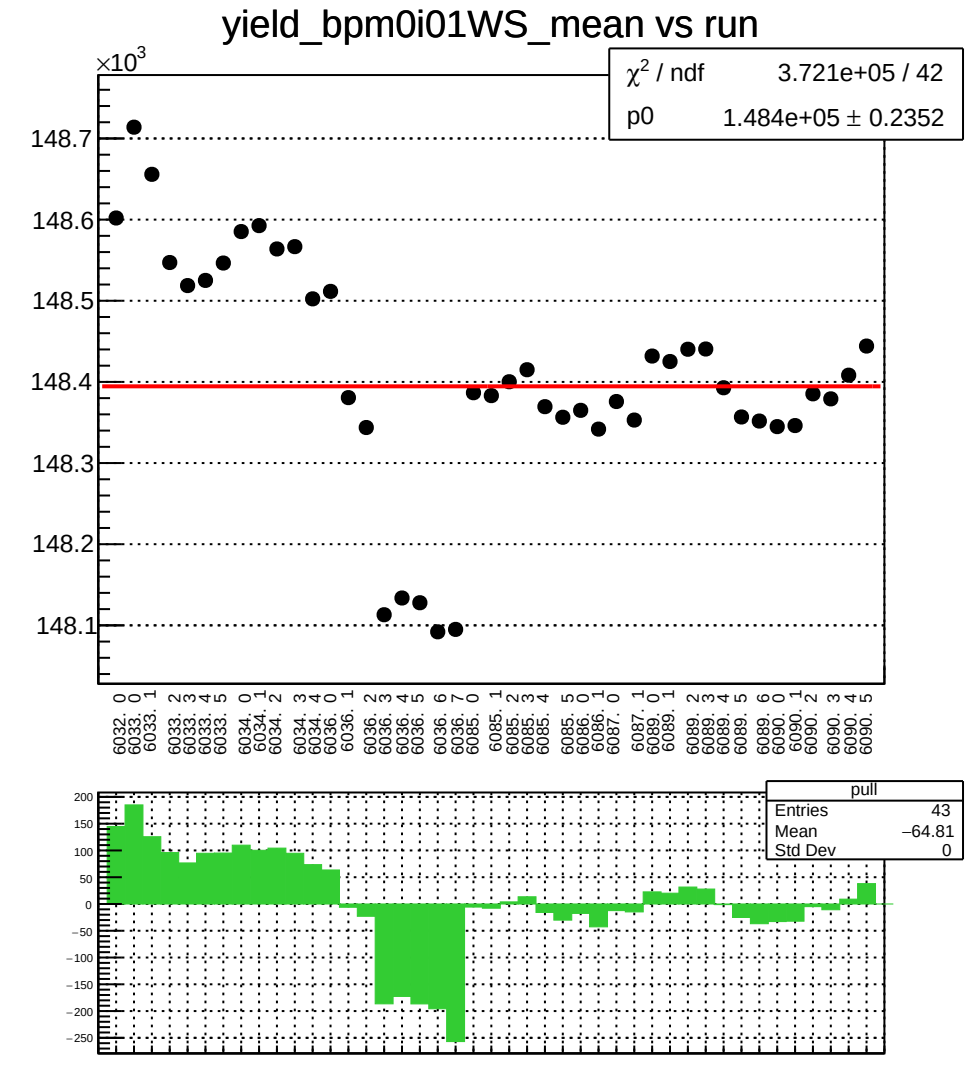

pull1D
Entries 43
Mean −0.9104
Std Dev 4.186
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

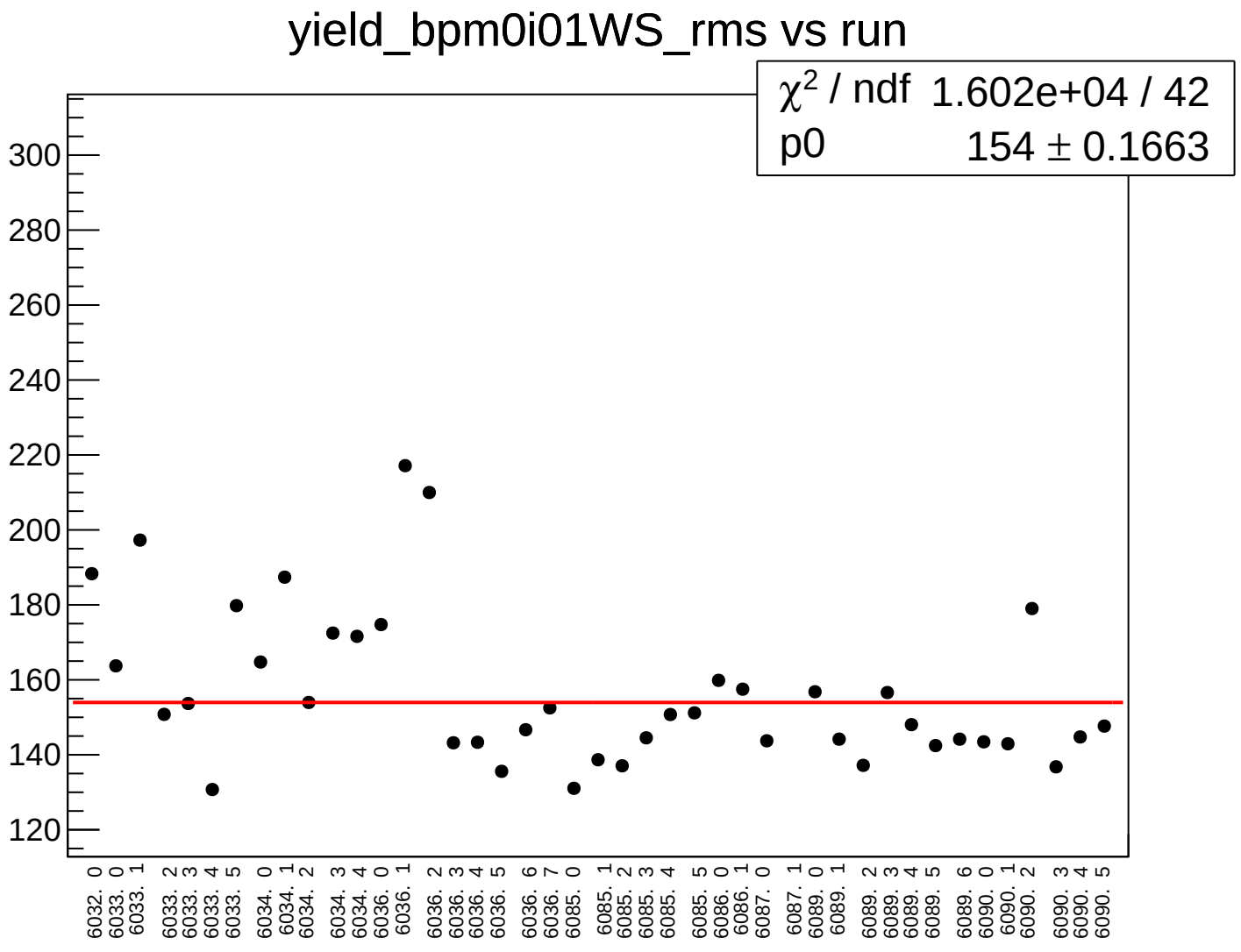

yield_bpm2i01WS_rms vs run
χ² / ndf 1.753e+04 / 42
p0 130.1 ± 0.1406
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

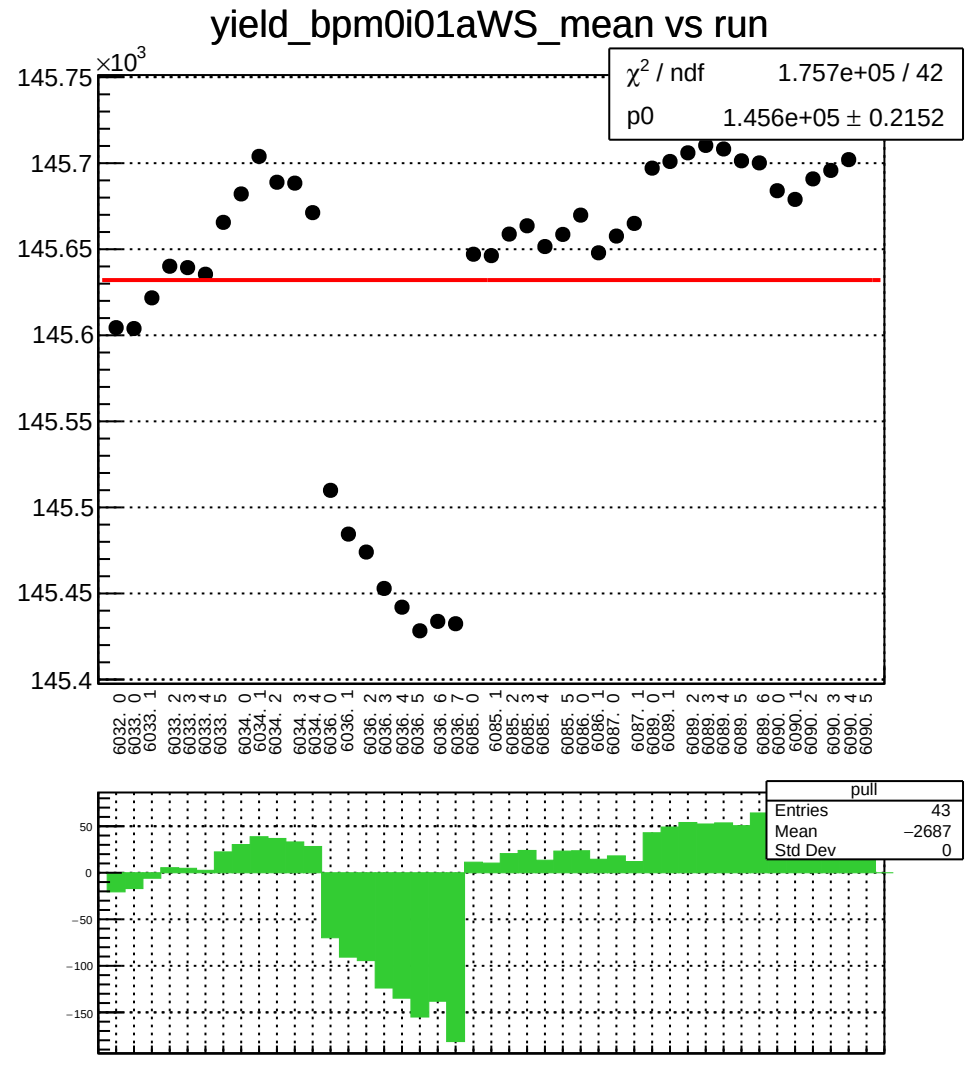

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.15e+05 / 42
p0 1.548e+05 ± 0.2642
155
154.8
154.6
154.4
154.2
154
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.7
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300
−350

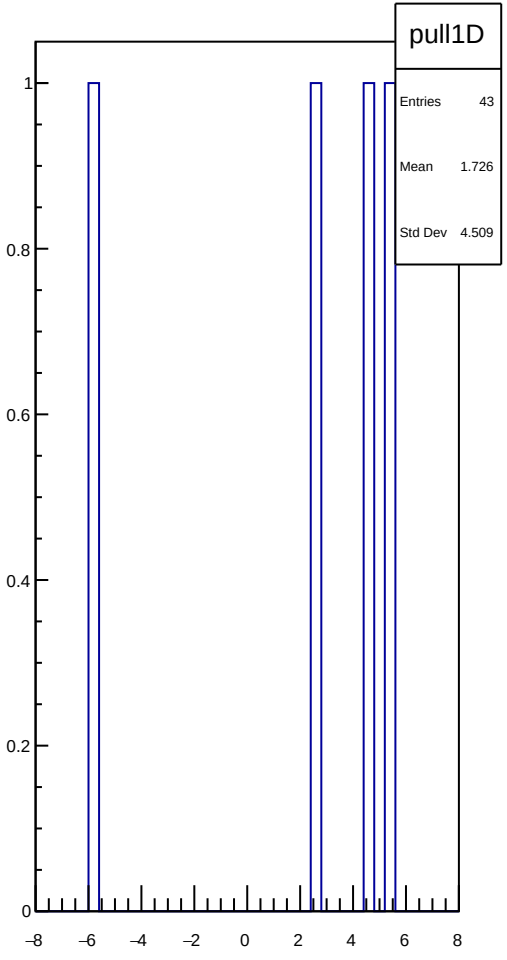

pull1D
Entries 43
Mean −0.793
Std Dev 4.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

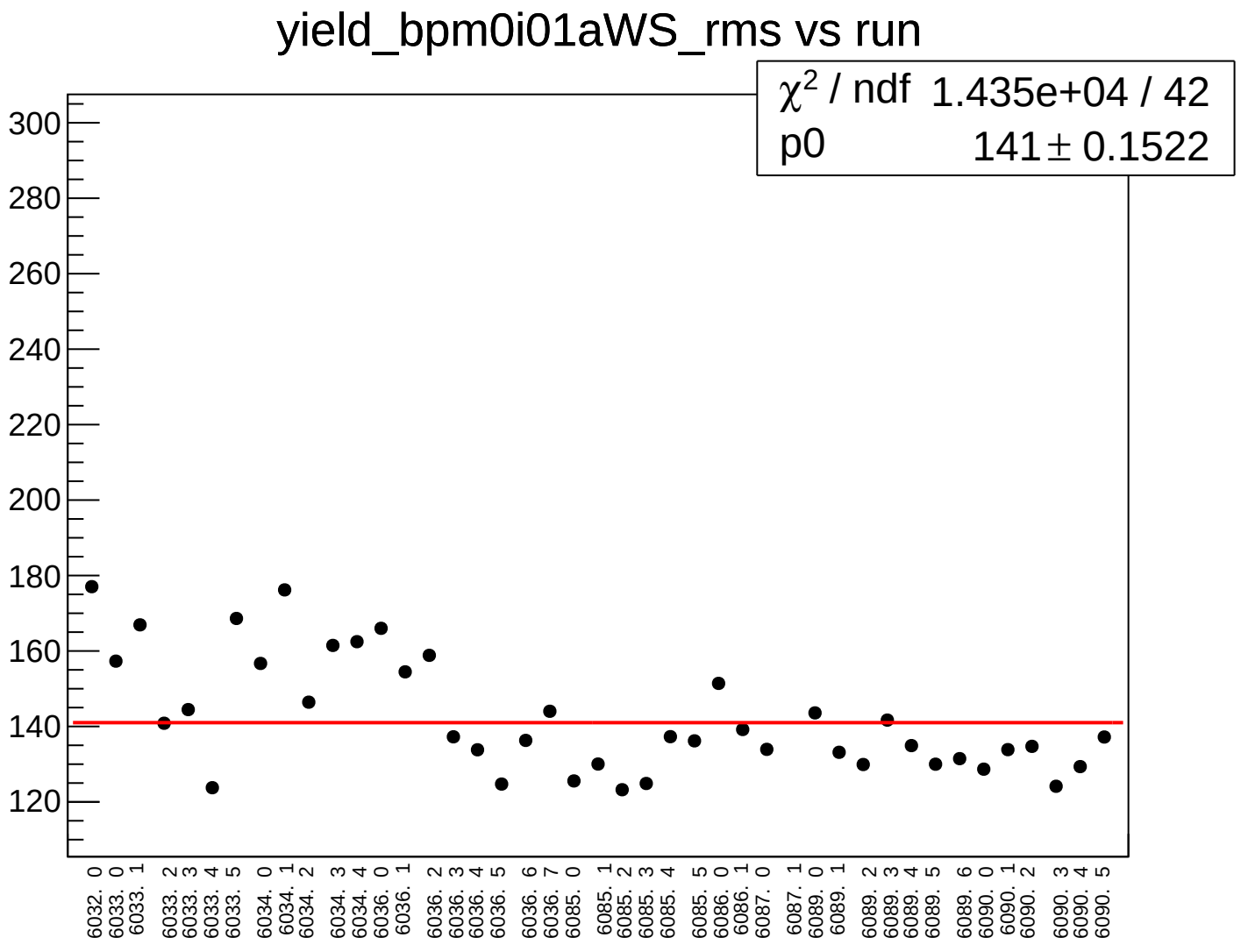

yield_bpm0i07WS_rms vs run
χ² / ndf 2.136e+04 / 42
p0 172.4 ± 0.1868
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

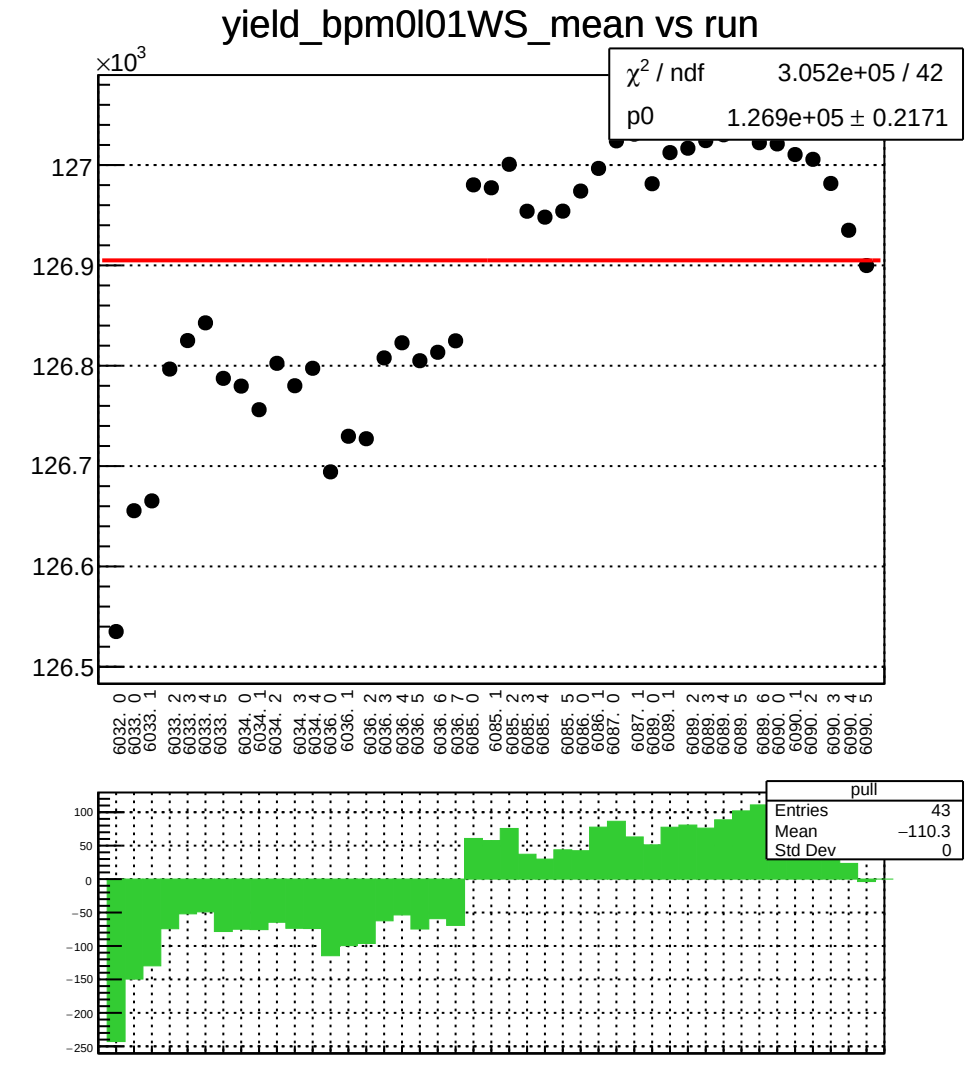

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 3.721e+05 / 42
p0 1.484e+05 ± 0.2352
148.7
148.6
148.5
148.4
148.3
148.2
148.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.81
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 43
Mean −3.615
Std Dev 3.932
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

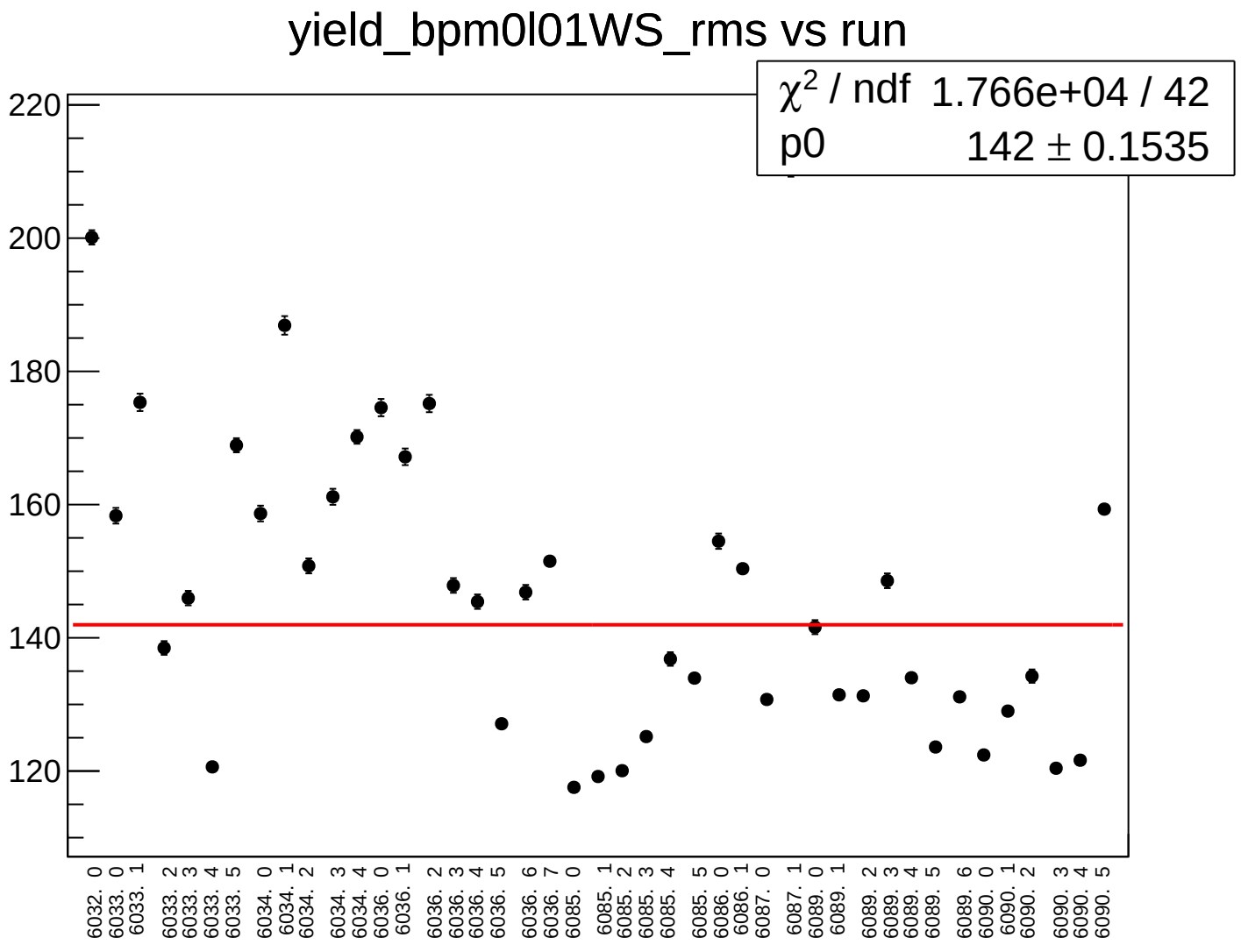

yield_bpm0i01WS_rms vs run
χ² / ndf 1.602e+04 / 42
p0 154 ± 0.1663
300
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

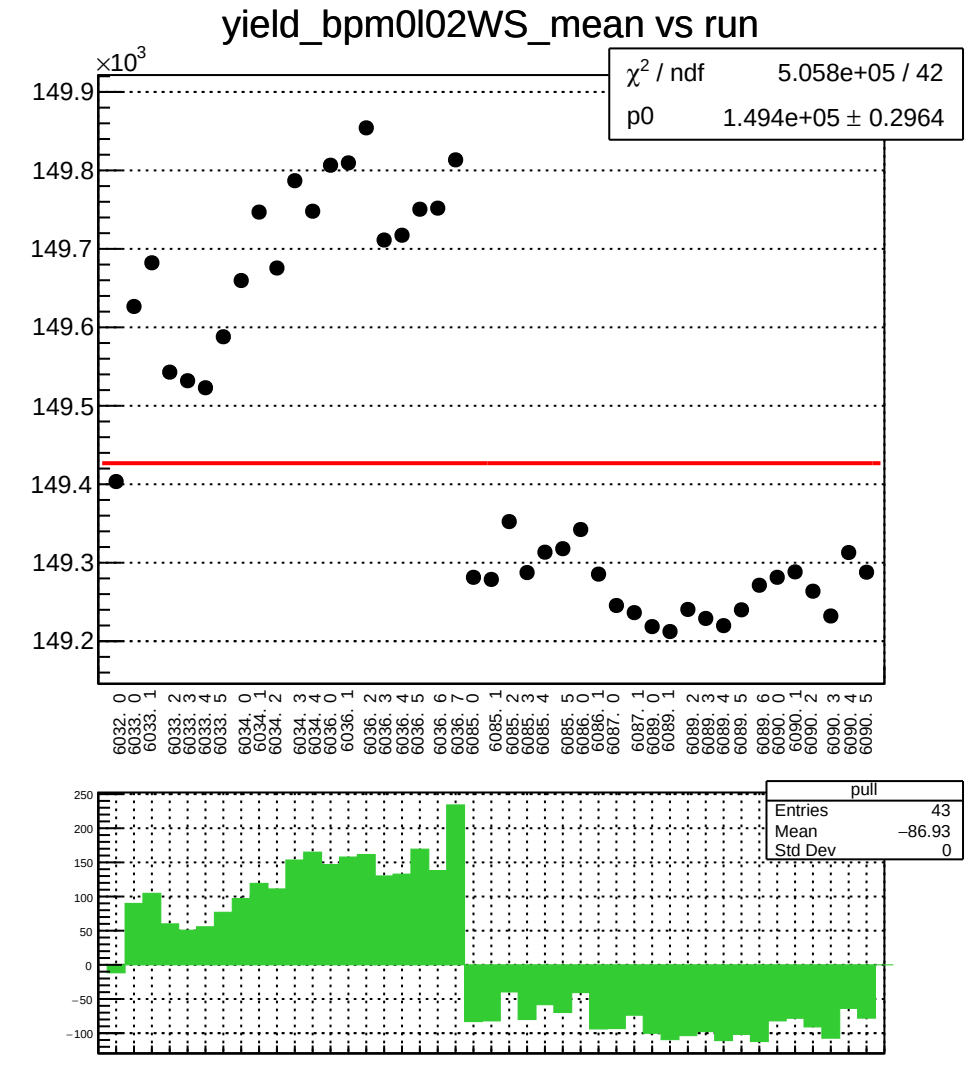

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.757e+05 / 42
p0 1.456e+05 ± 0.2152
145.75
145.7
145.65
145.6
145.55
145.5
145.45
145.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2687
Std Dev 0
50
0
−50
−100
−150

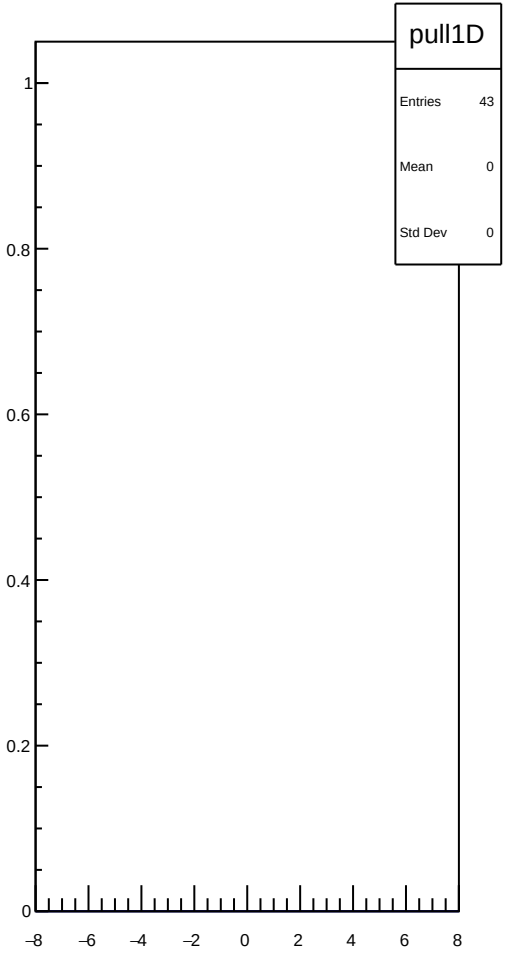

pull1D
Entries 43
Mean 1.726
Std Dev 4.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

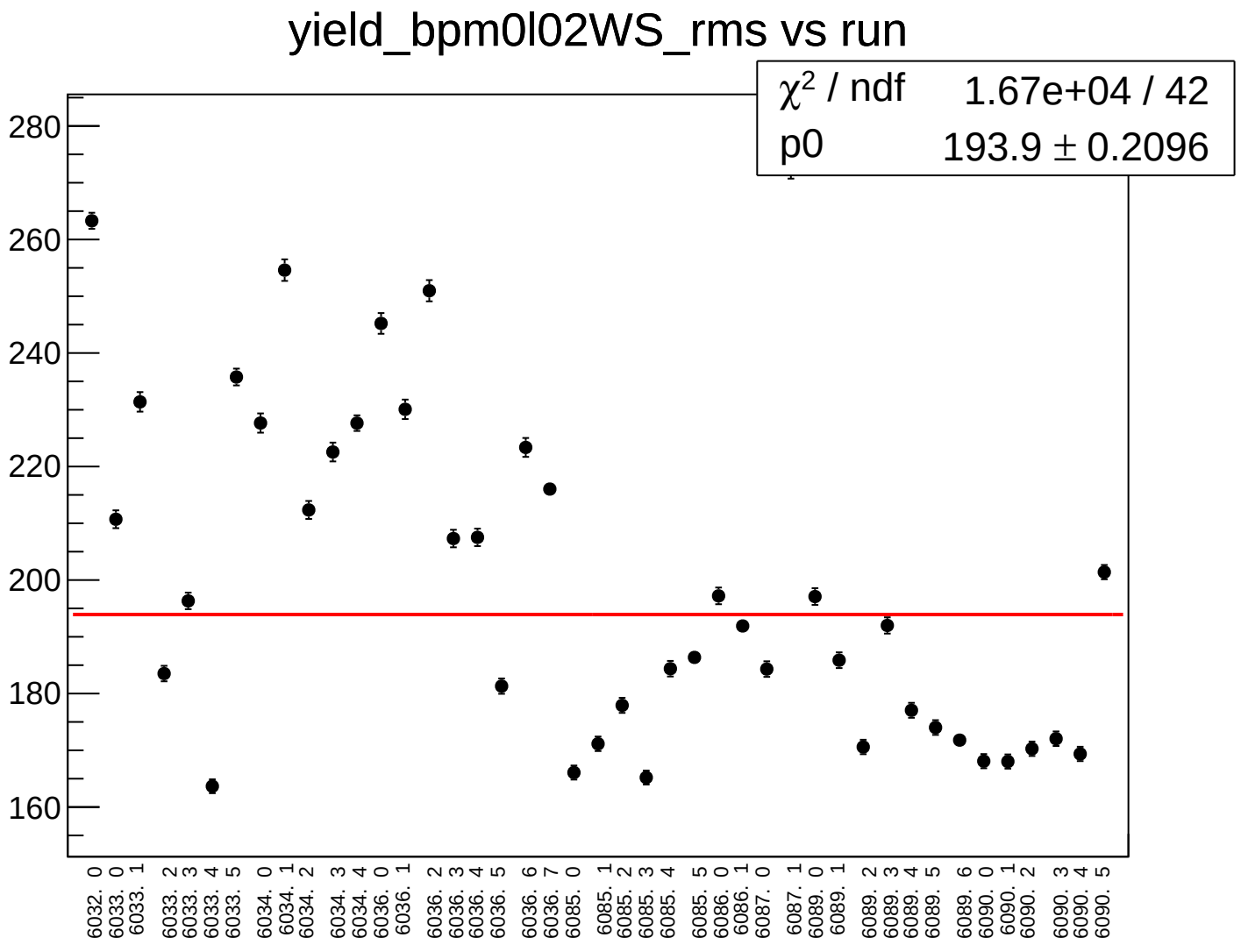

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.435e+04 / 42
p0 141 ± 0.1522
300
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

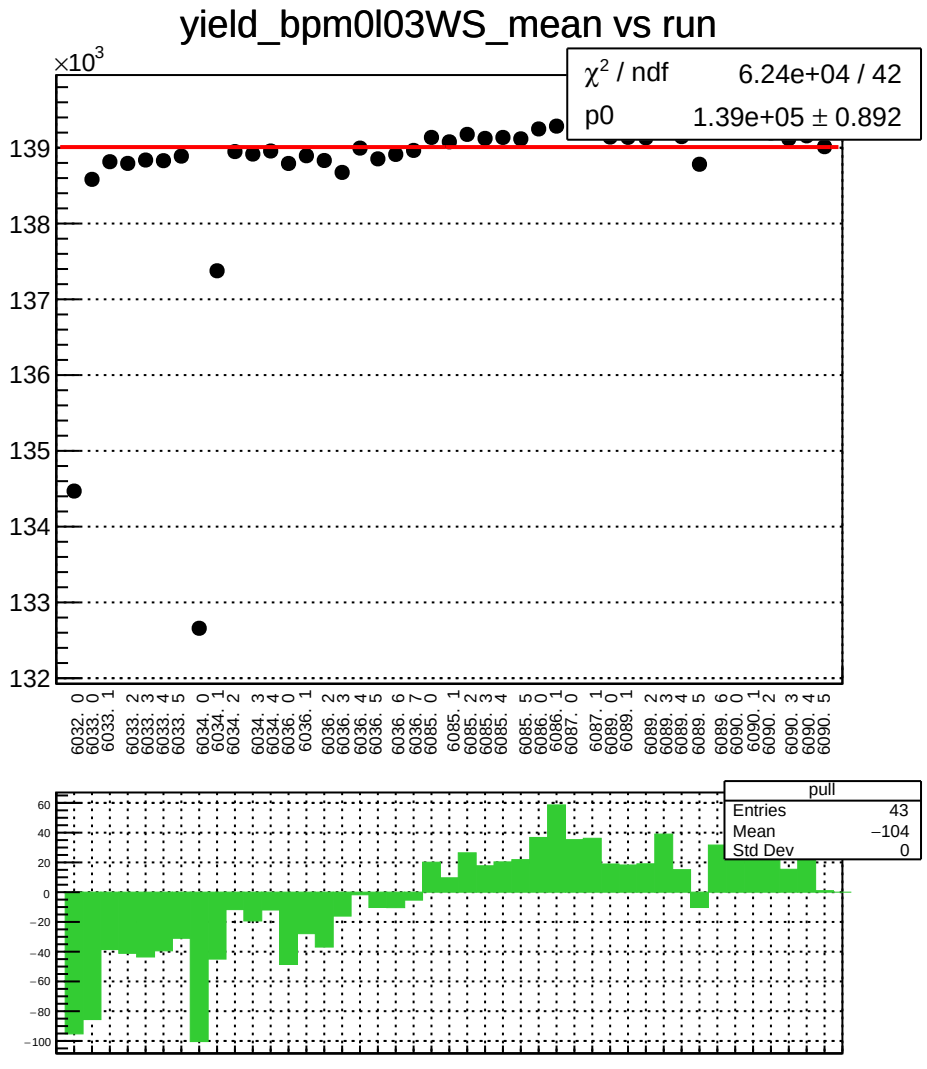

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 3.052e+05 / 42
p0 1.269e+05 ± 0.2171
127
126.9
126.8
126.7
126.6
126.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −110.3
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 43
Mean −3.651
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

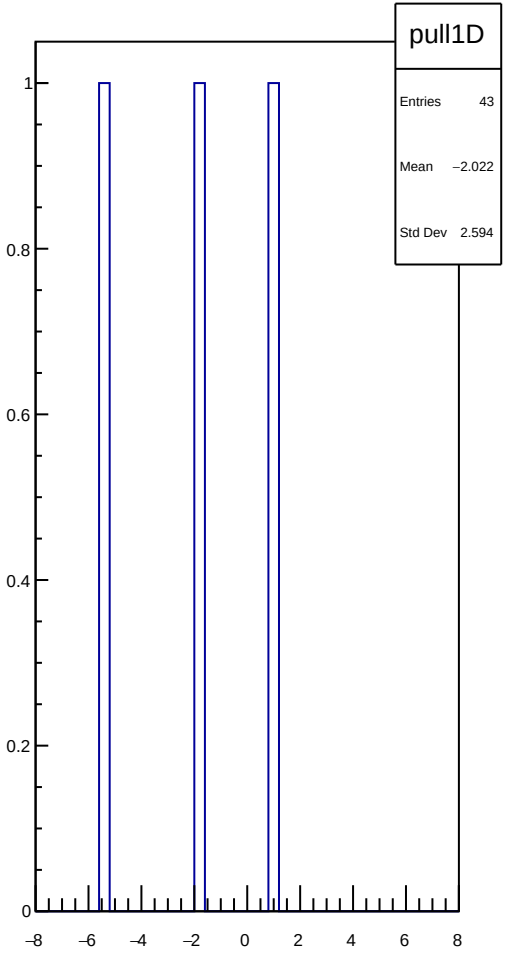

yield_bpm0l01WS_rms vs run
χ² / ndf 1.766e+04 / 42
p0 142 ± 0.1535
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

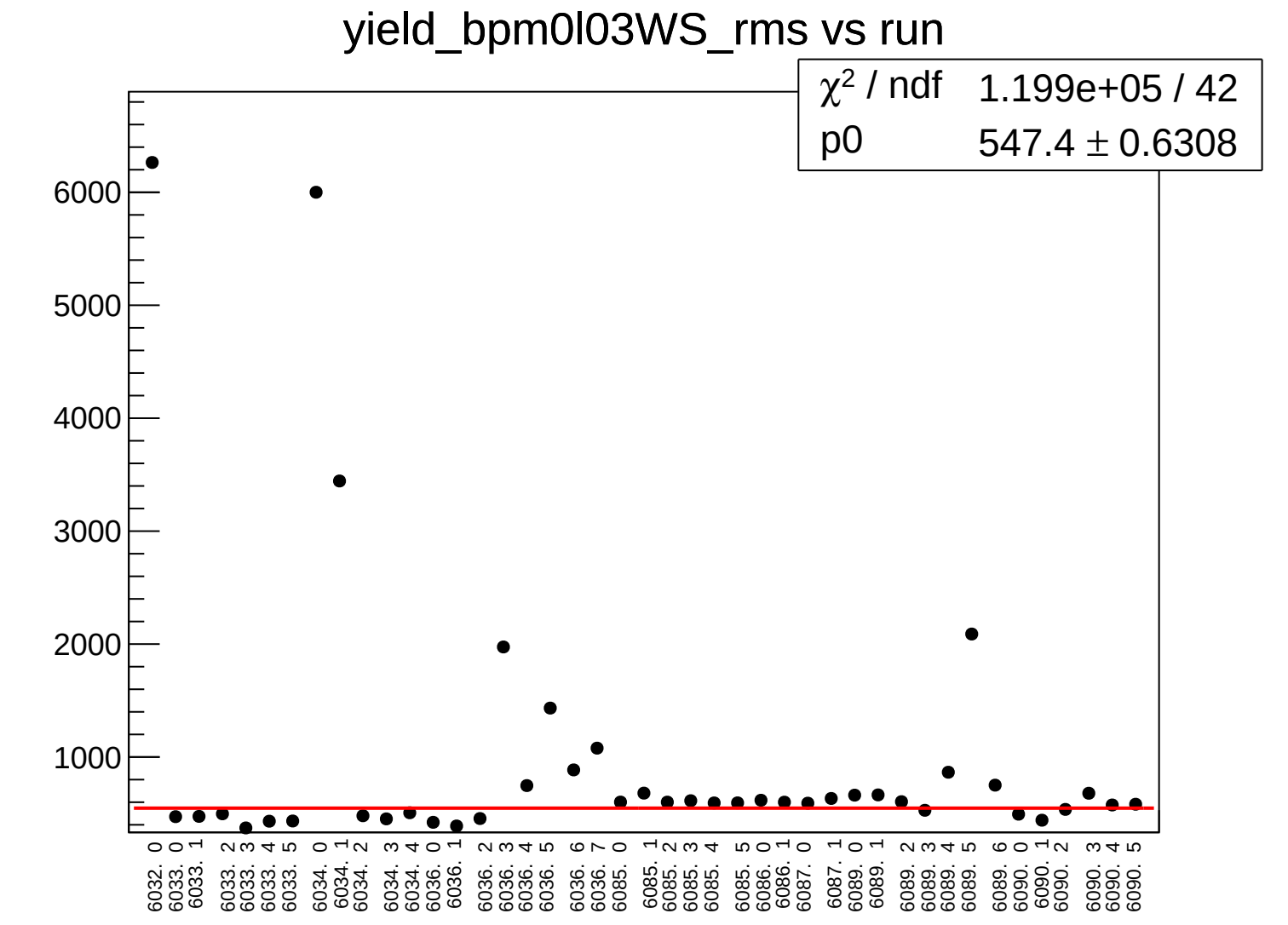

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 5.058e+05 / 42
p0 1.494e+05 ± 0.2964
149.9
149.8
149.7
149.6
149.5
149.4
149.3
149.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −86.93
Std Dev 0
250
200
150
100
50
0
−50
−100

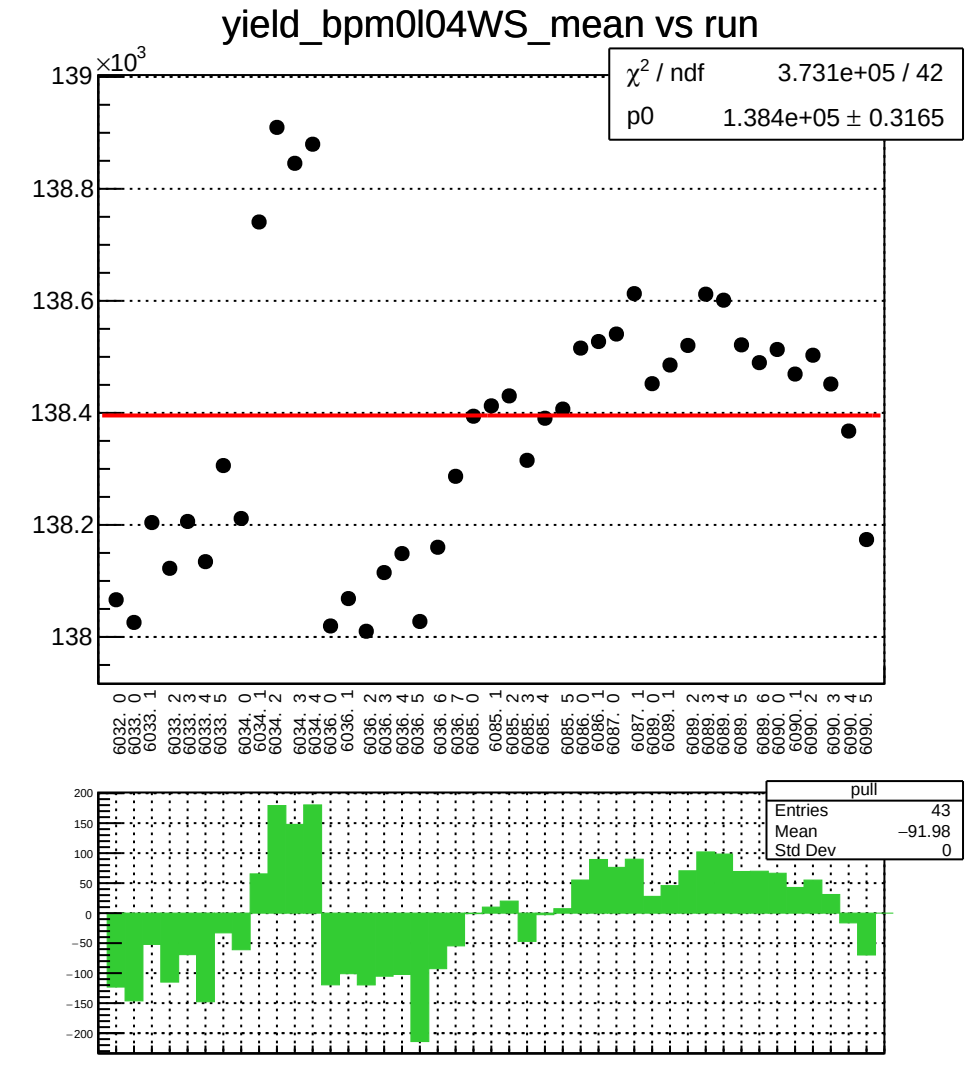

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

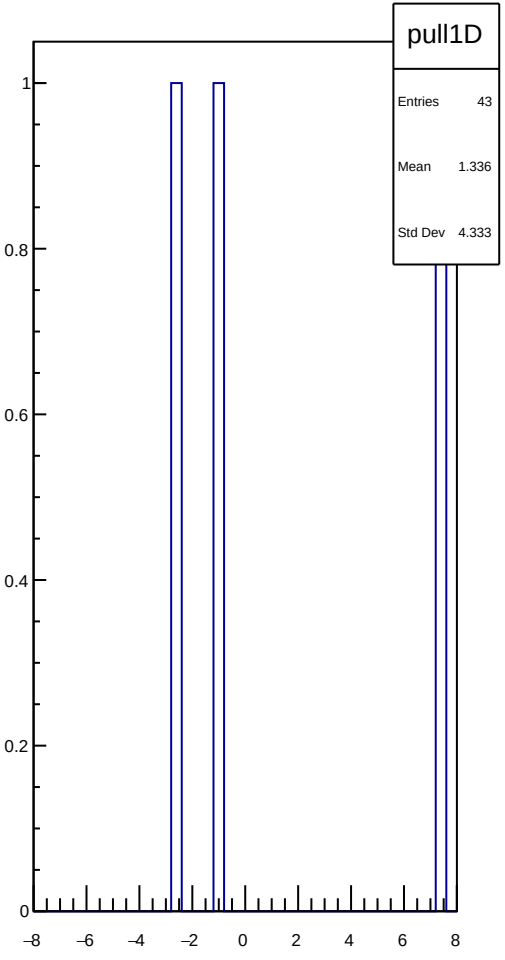

yield_bpm0l02WS_rms vs run
χ² / ndf 1.67e+04 / 42
p0 193.9 ± 0.2096
280
260
240
220
200
180
160
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

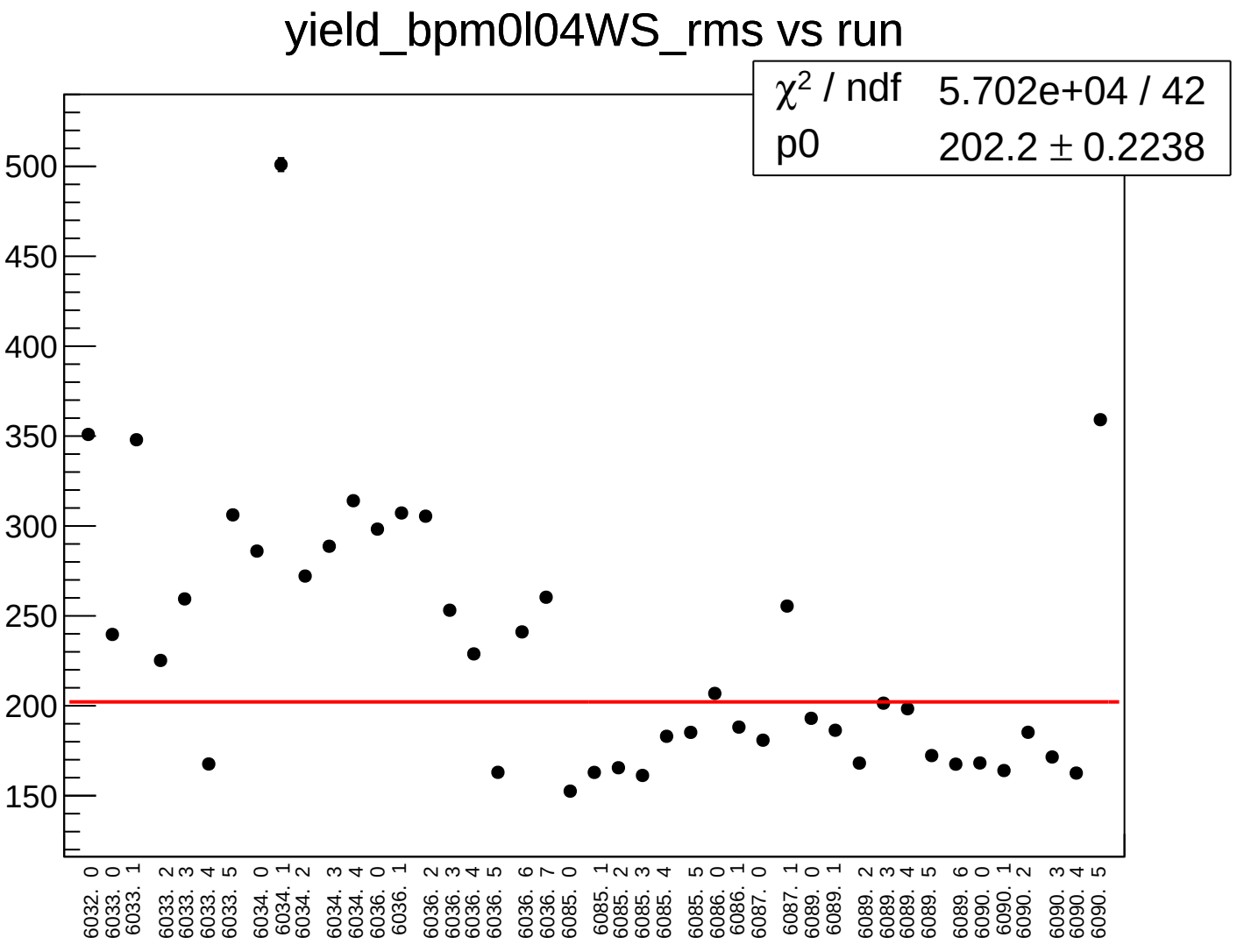

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 6.24e+04 / 42
p0 1.39e+05 ± 0.892
139
138
137
136
135
134
133
132
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −104
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

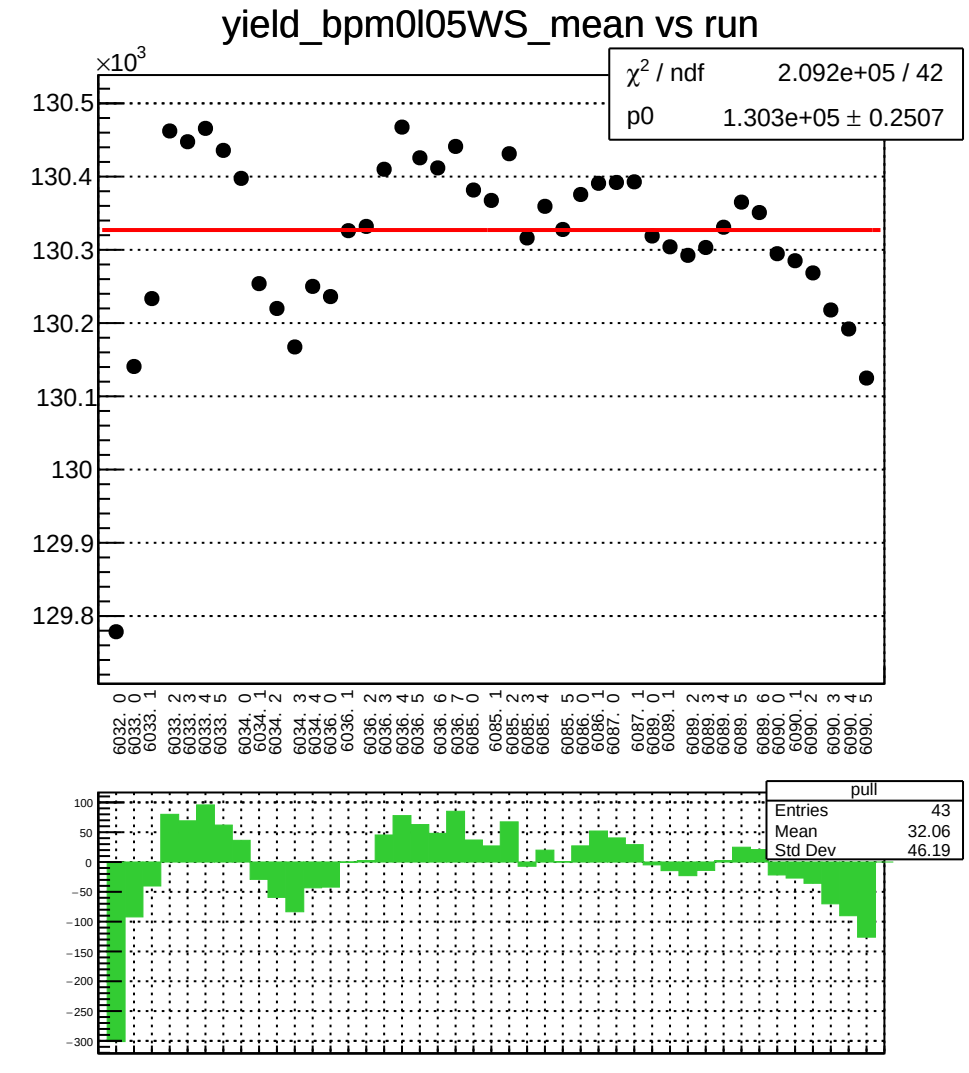

pull1D
Entries 43
Mean −2.022
Std Dev 2.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

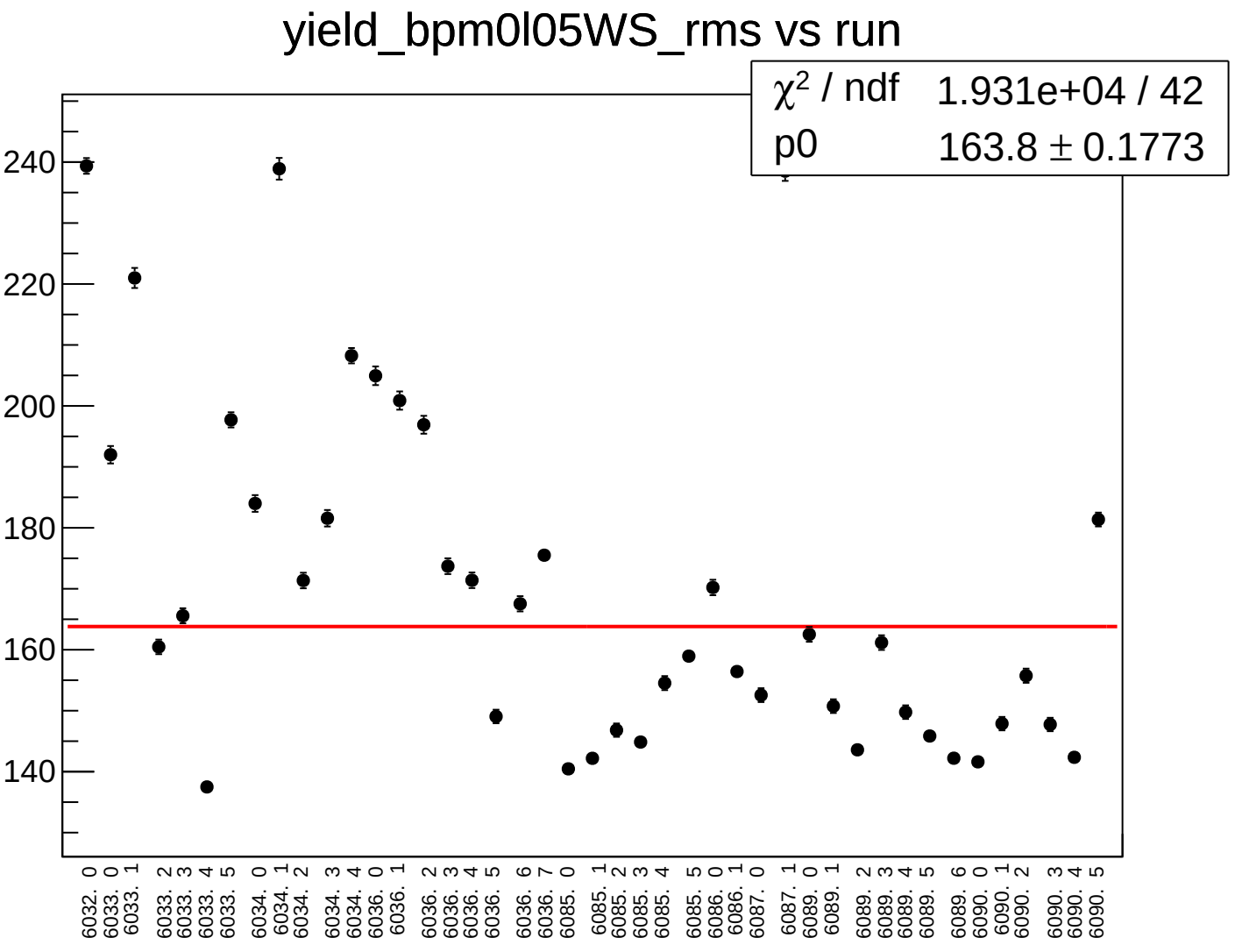

yield_bpm0l03WS_rms vs run
χ² / ndf 1.199e+05 / 42
p0 547.4 ± 0.6308
6000
5000
4000
3000
2000
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

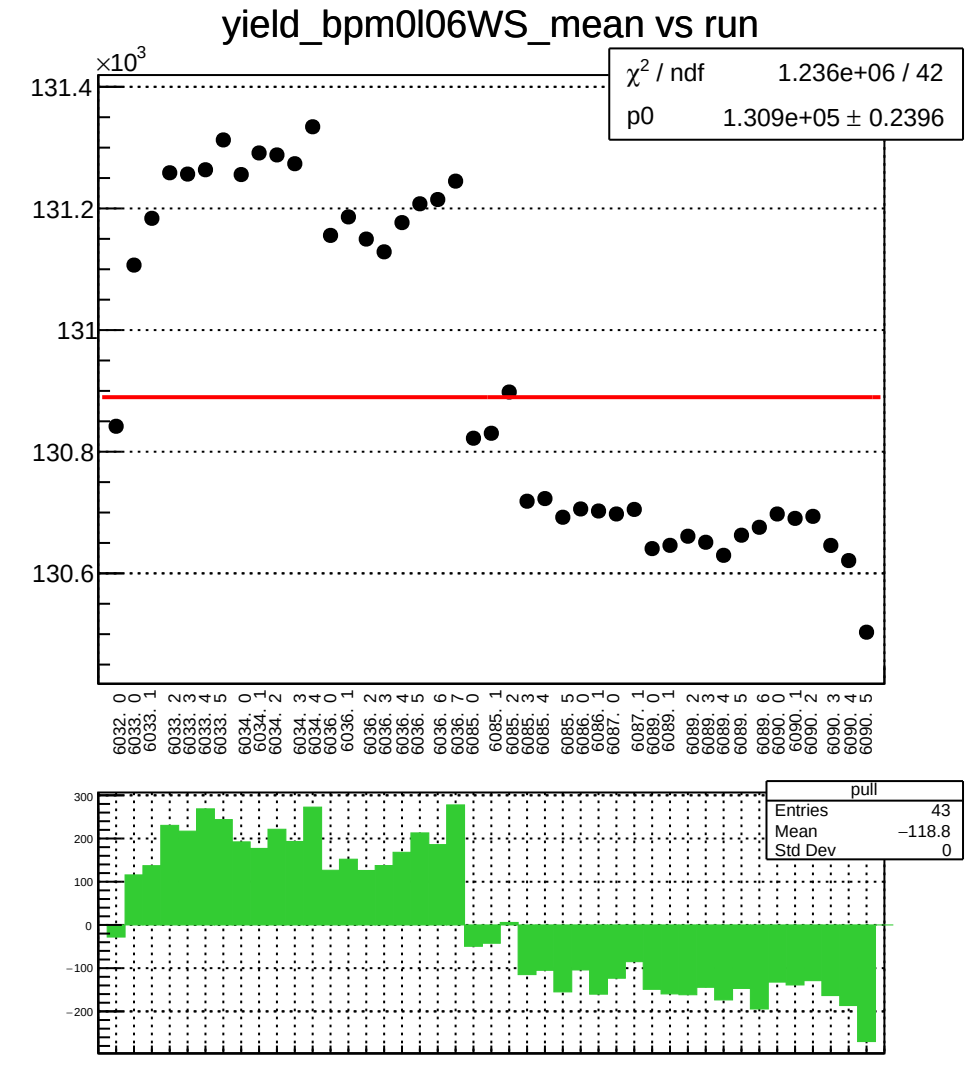

yield_bpm0l04WS_mean vs run
χ² / ndf 3.731e+05 / 42
p0 1.384e+05 ± 0.3165
×10³
139
138.8
138.6
138.4
138.2
138
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −91.98
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

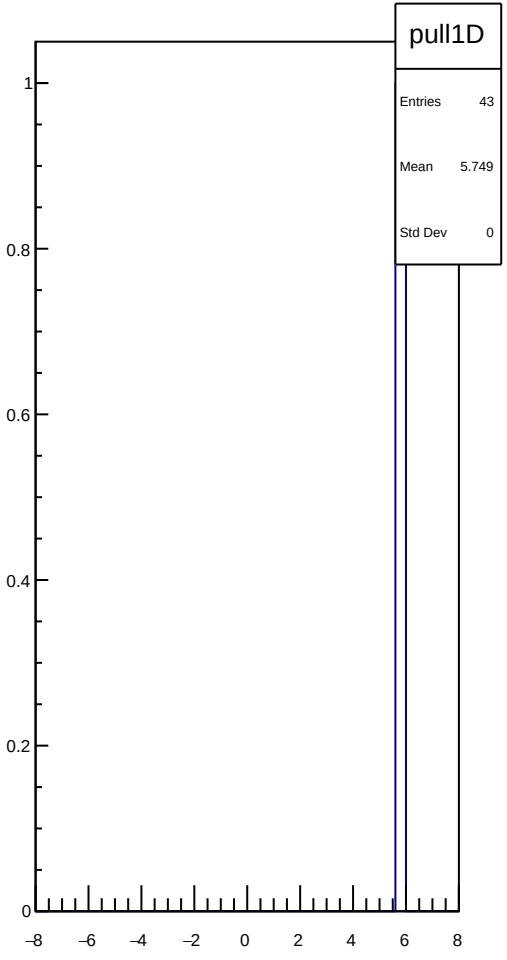

pull1D
Entries 43
Mean 1.336
Std Dev 4.333
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

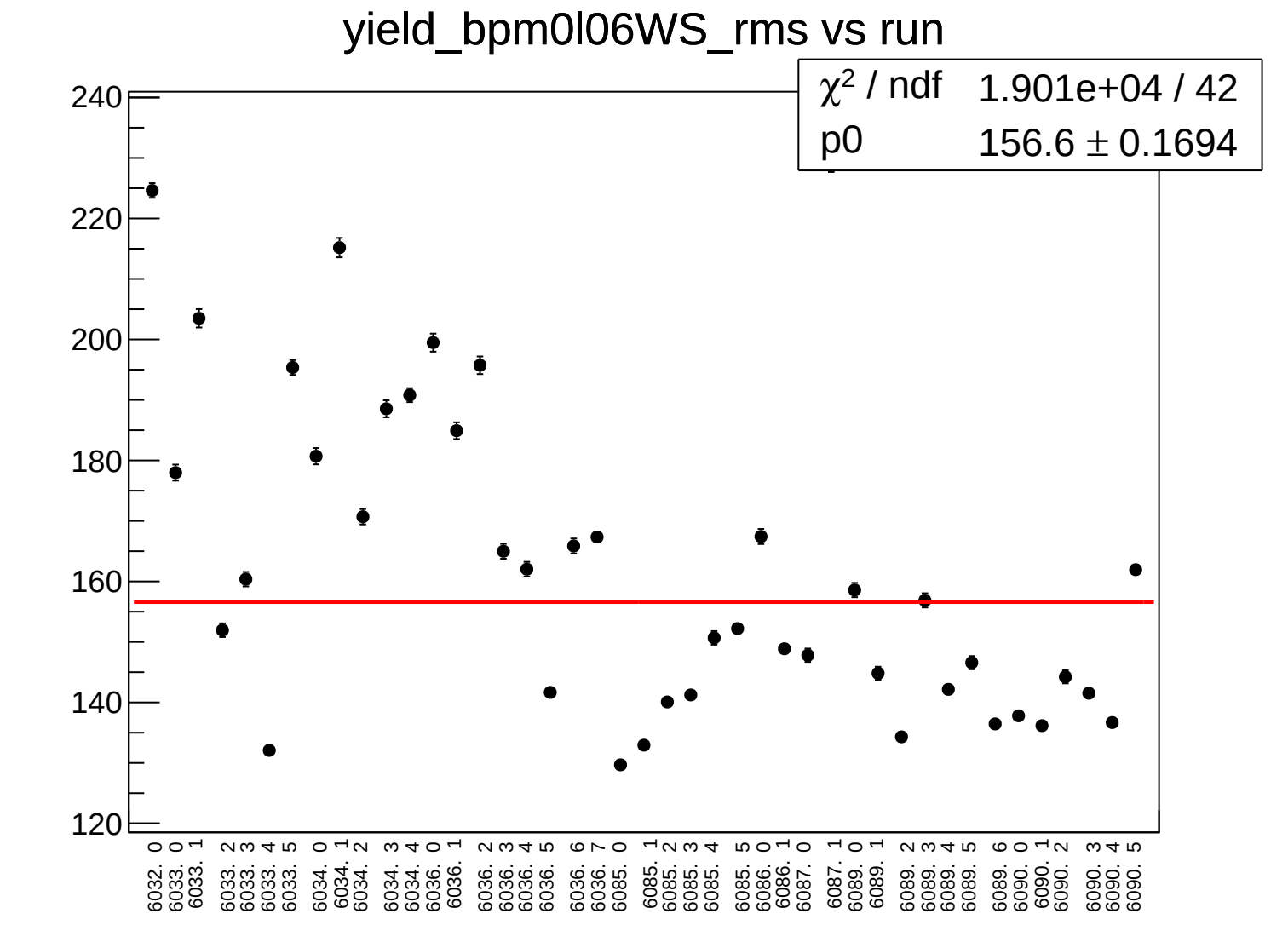

yield_bpm0l04WS_rms vs run
χ² / ndf 5.702e+04 / 42
p0 202.2 ± 0.2238
500
450
400
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

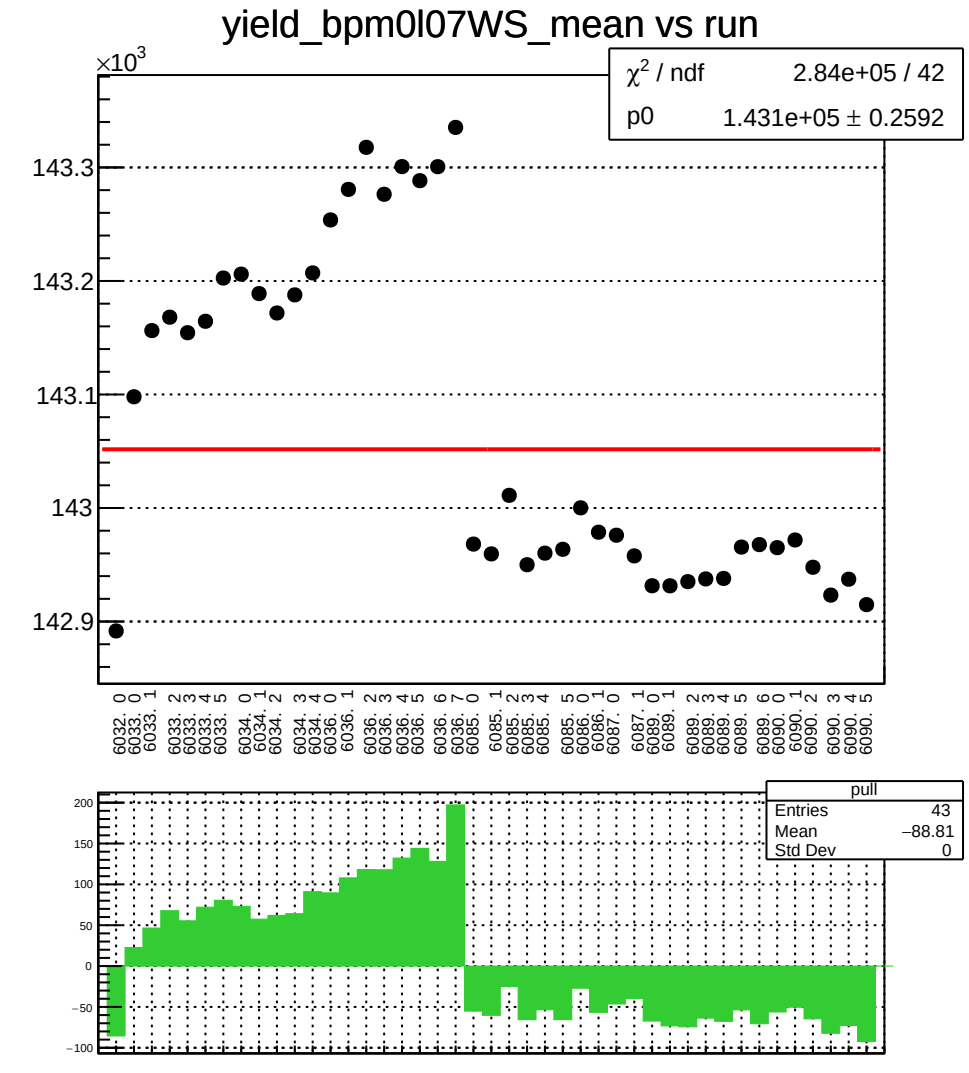

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.092e+05 / 42
p0 1.303e+05 ± 0.2507
130.5
130.4
130.3
130.2
130.1
130
129.9
129.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.06
Std Dev 46.19
100
50
0
−50
−100
−150
−200
−250
−300
pull1D
Entries 43
Mean −1.139
Std Dev 3.583
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

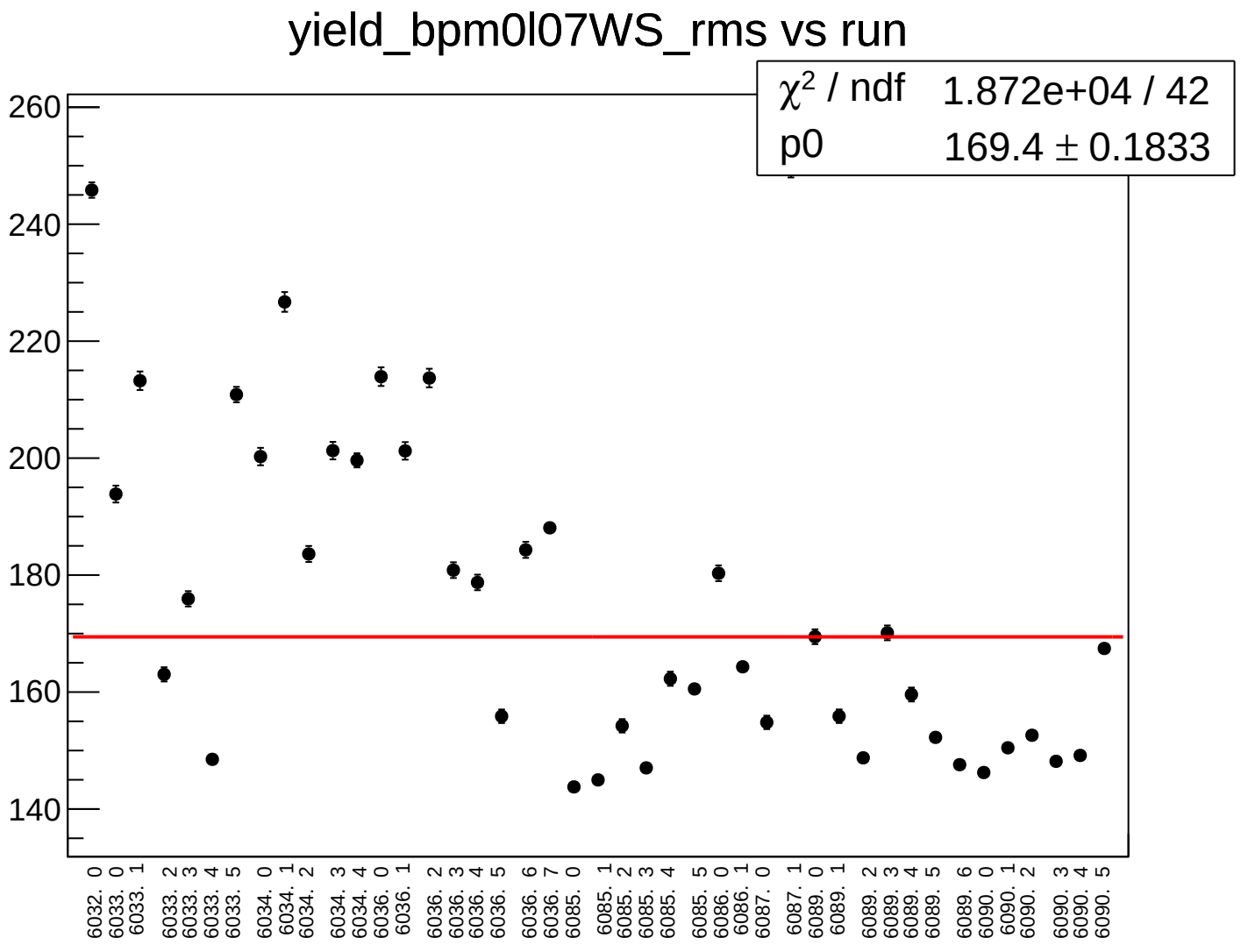

yield_bpm0l05WS_rms vs run
χ² / ndf 1.931e+04 / 42
p0 163.8 ± 0.1773
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

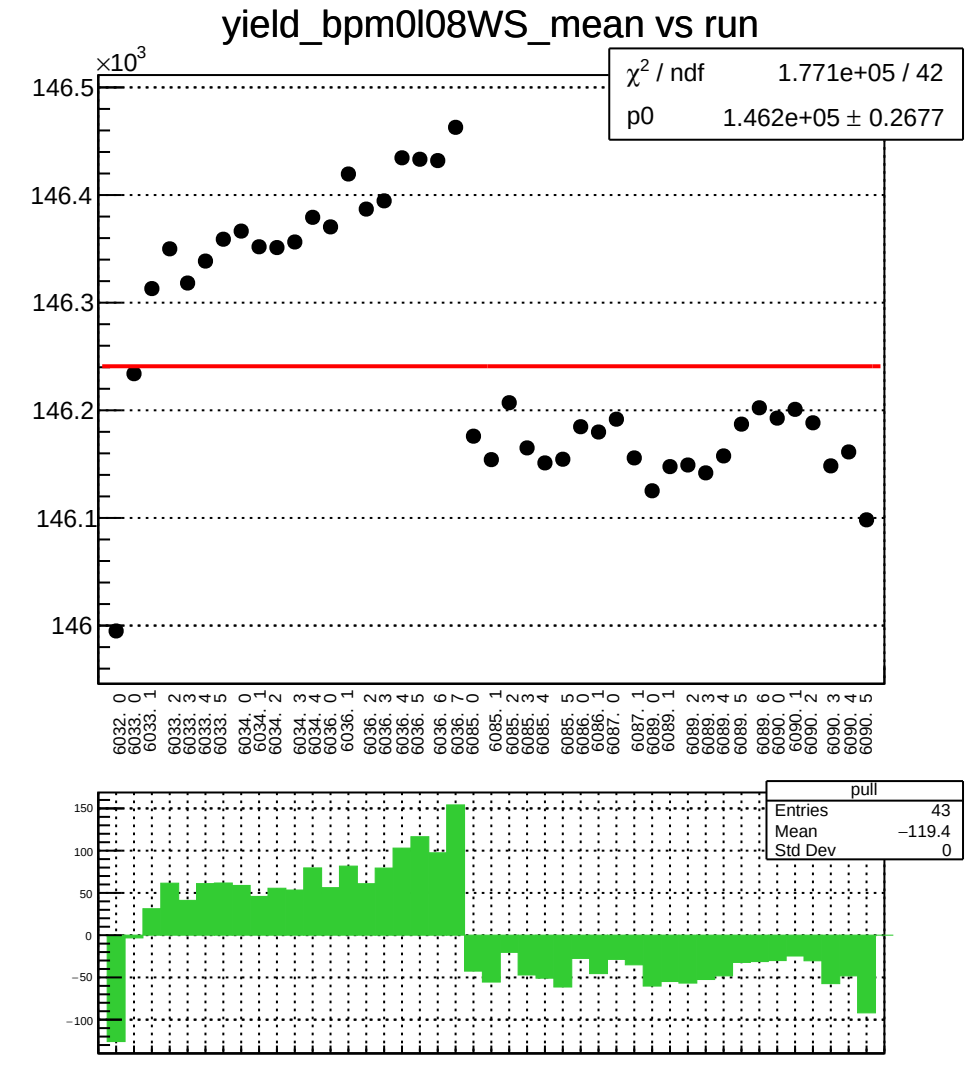

yield_bpm0l06WS_mean vs run
×10^3
131.4
131.2
131
130.8
130.6
χ² / ndf 1.236e+06 / 42
p0 1.309e+05 ± 0.2396
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
300
200
100
0
−100
−200
pull
Entries 43
Mean −118.8
Std Dev 0

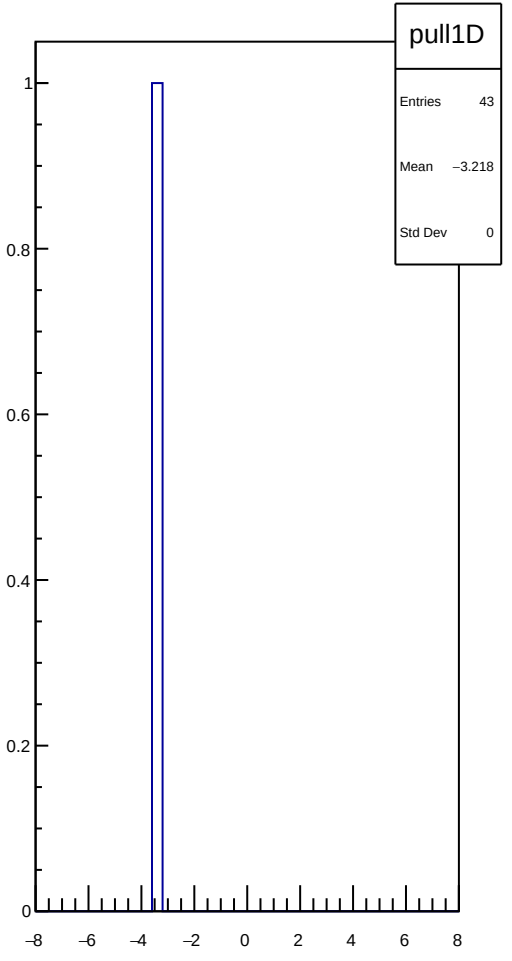

pull1D
Entries 43
Mean 5.749
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

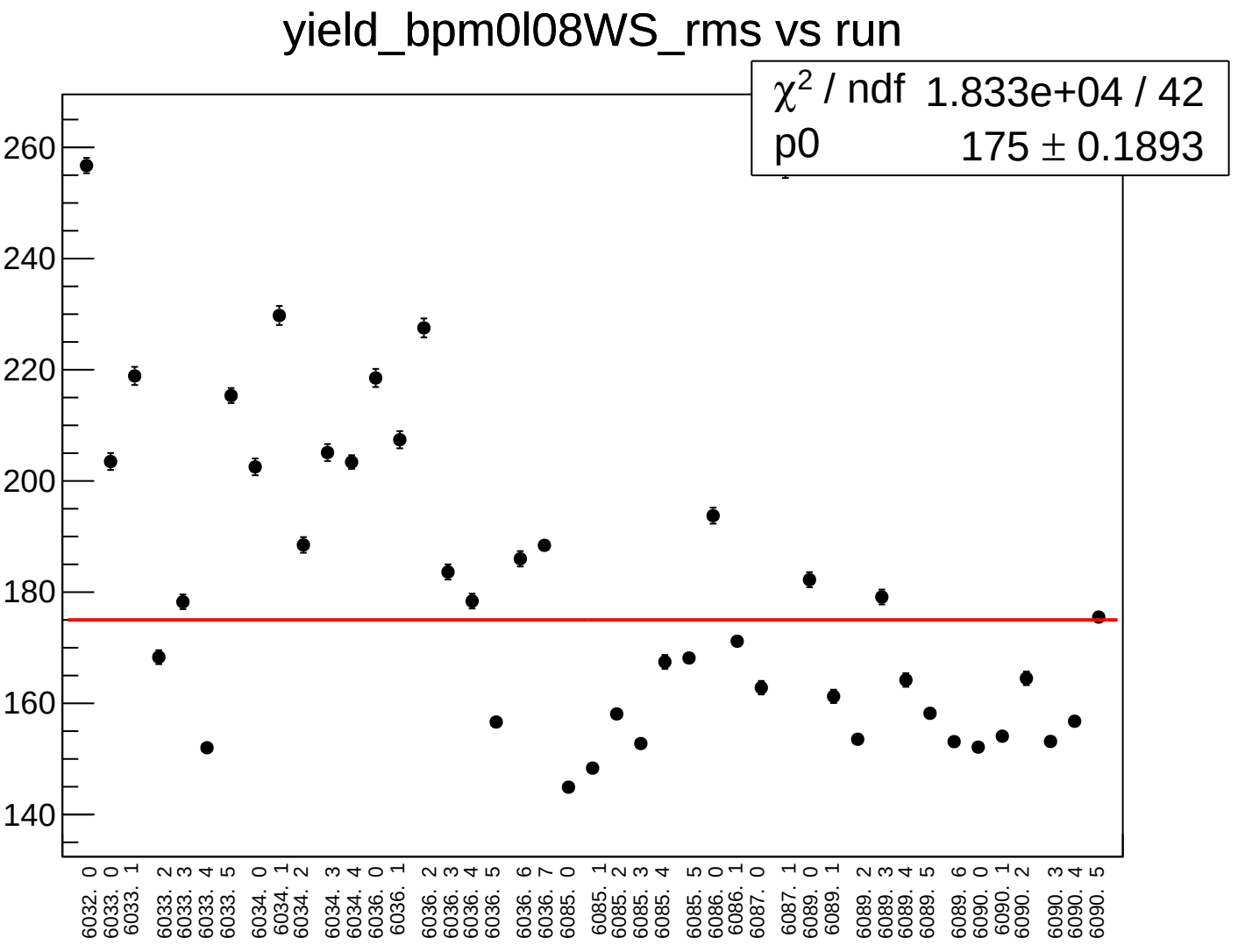

yield_bpm0l06WS_rms vs run
χ² / ndf 1.901e+04 / 42
p0 156.6 ± 0.1694
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

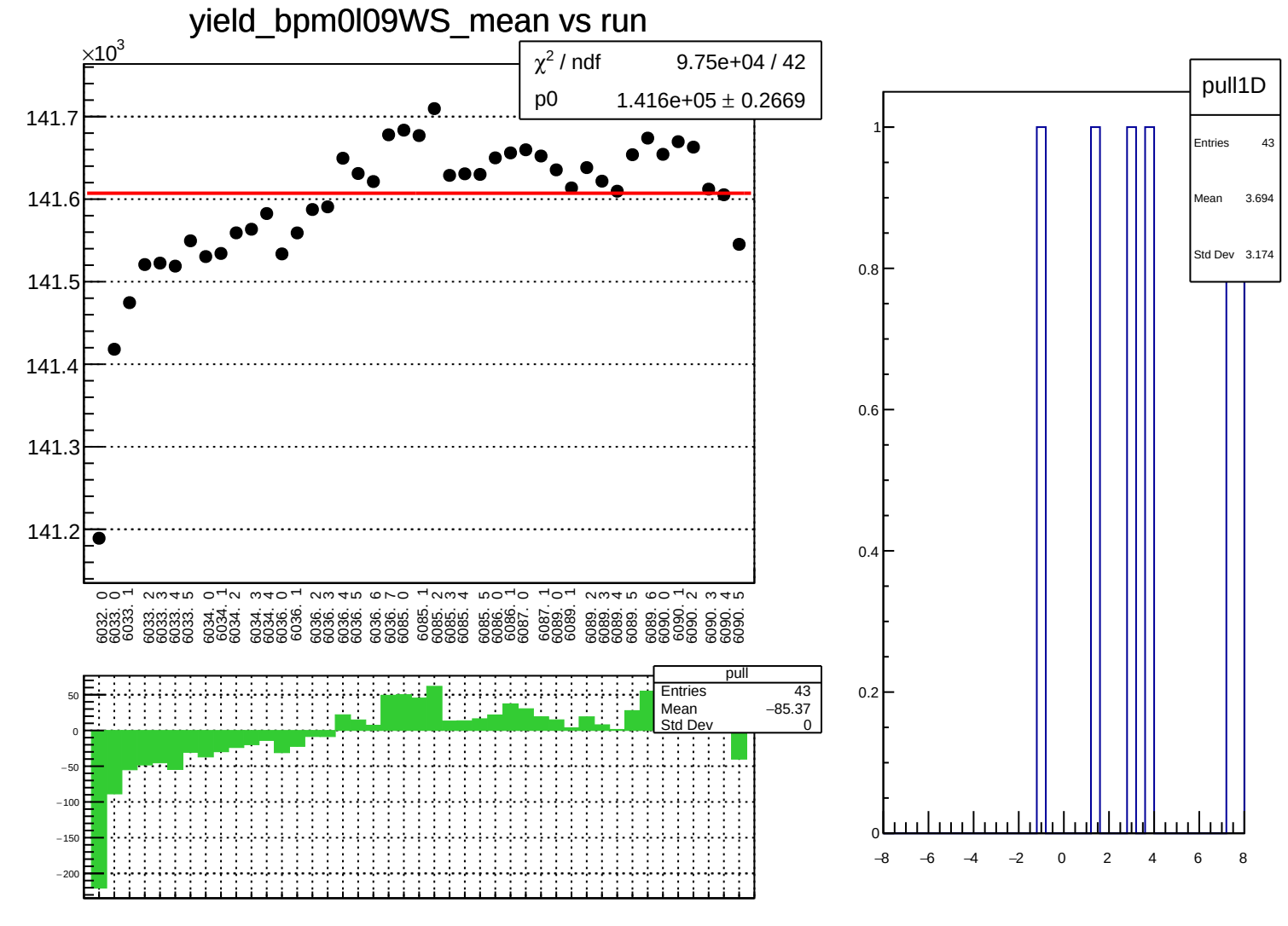

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.84e+05 / 42
p0 1.431e+05 ± 0.2592
143.3
143.2
143.1
143
142.9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −88.81
Std Dev 0
200
150
100
50
0
−50
−100
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

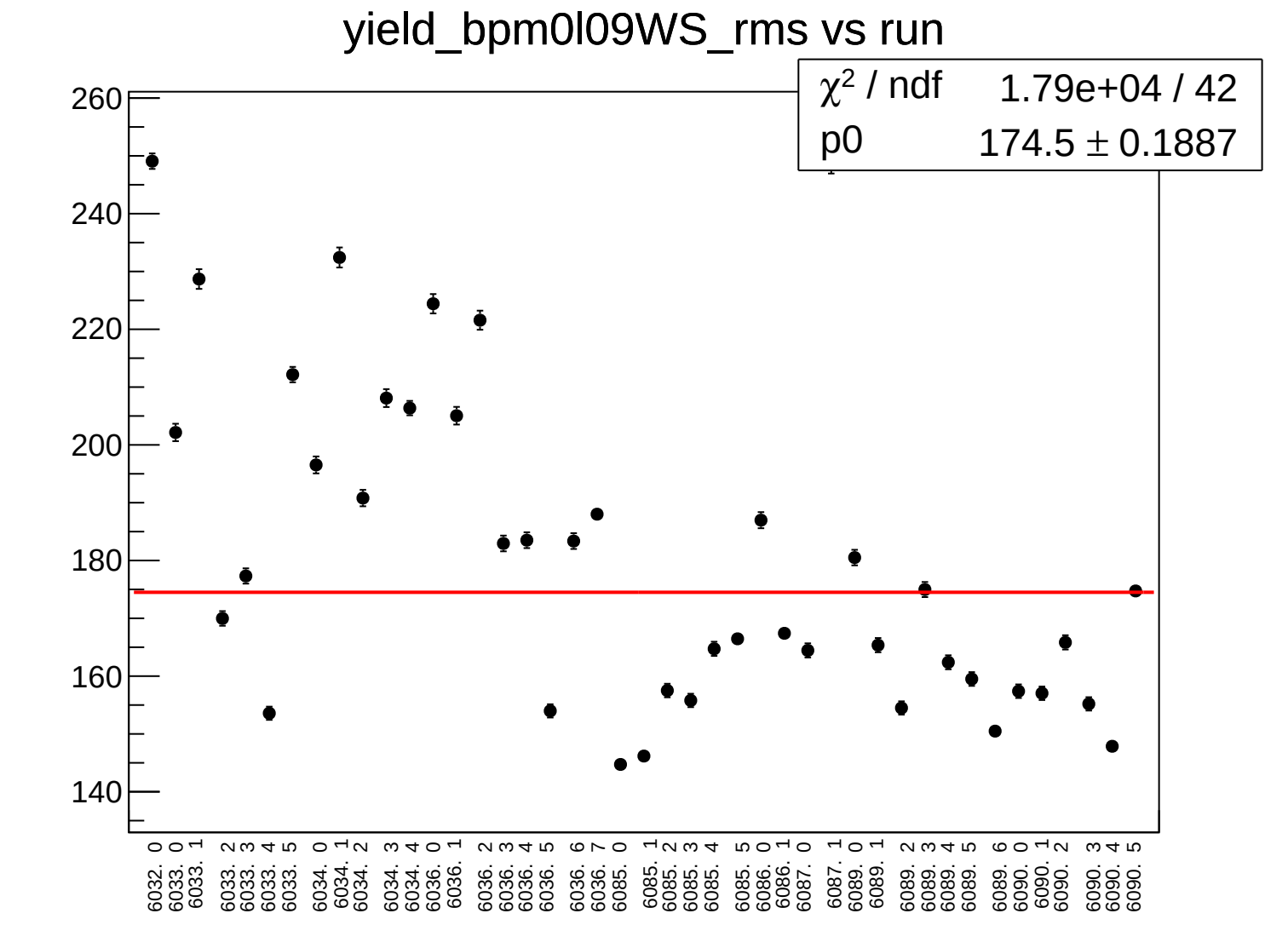

yield_bpm0l07WS_rms vs run
χ² / ndf 1.872e+04 / 42
p0 169.4 ± 0.1833
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

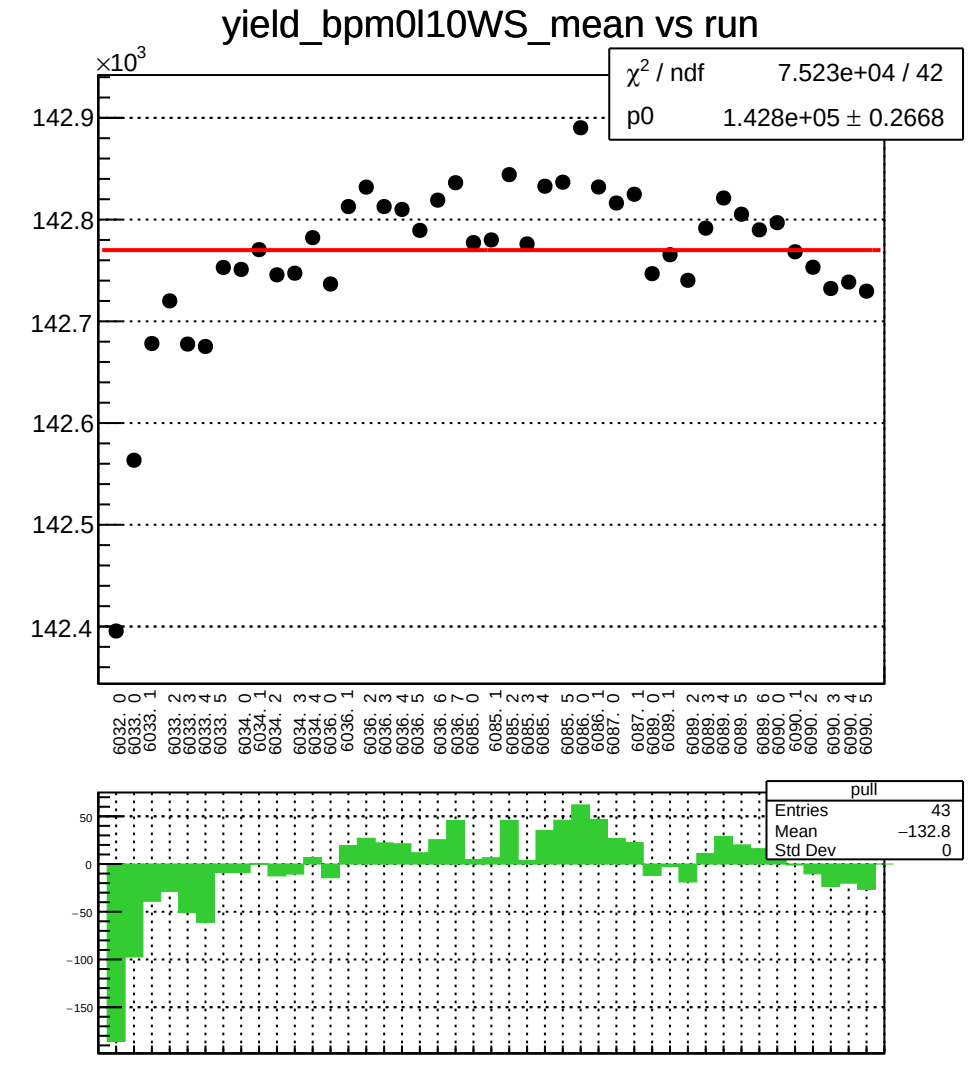

yield_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 1.771e+05 / 42
p0 1.462e+05 ± 0.2677
146.5
146.4
146.3
146.2
146.1
146
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −119.4
Std Dev 0
150
100
50
0
−50
−100

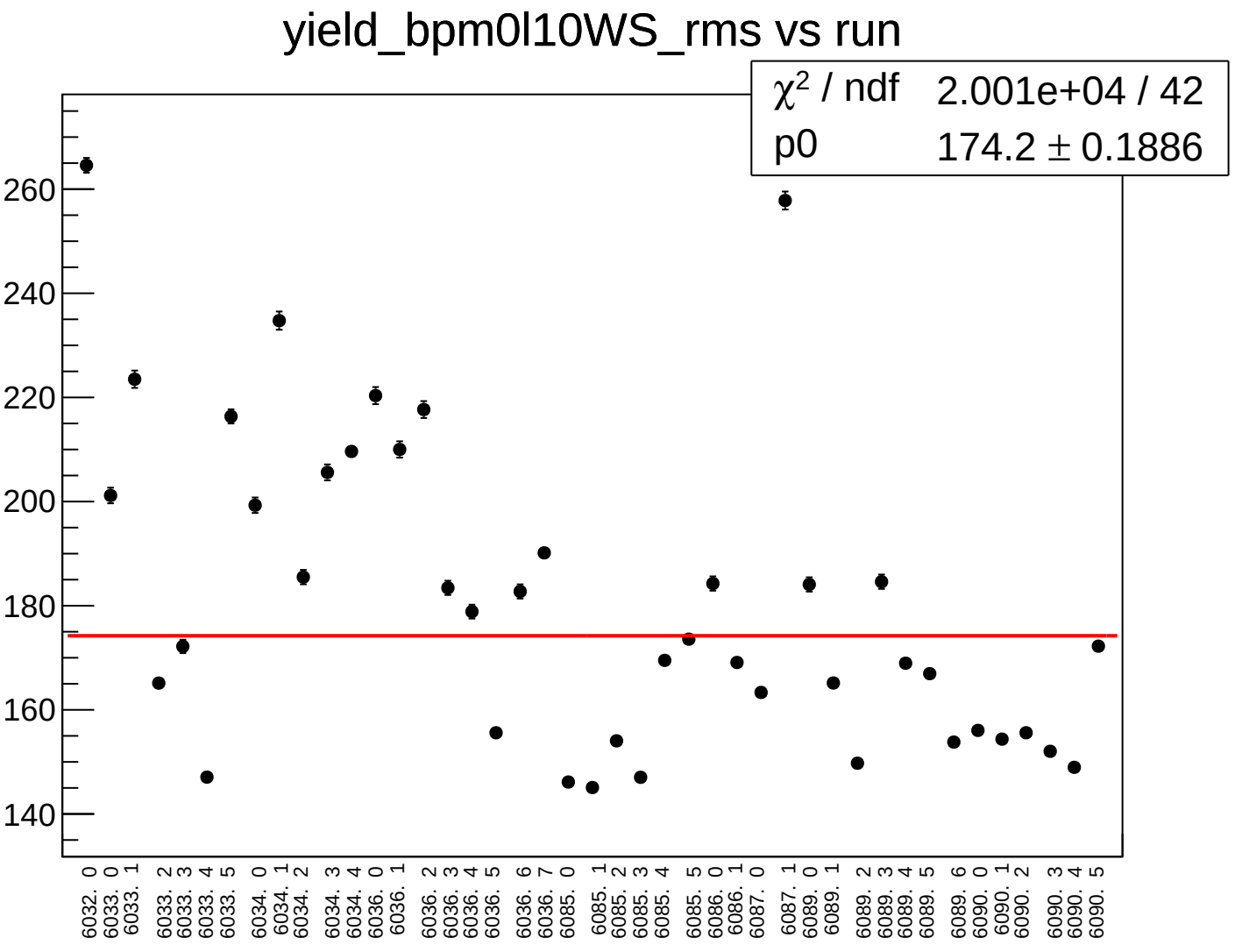

pull1D
Entries 43
Mean −3.218
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

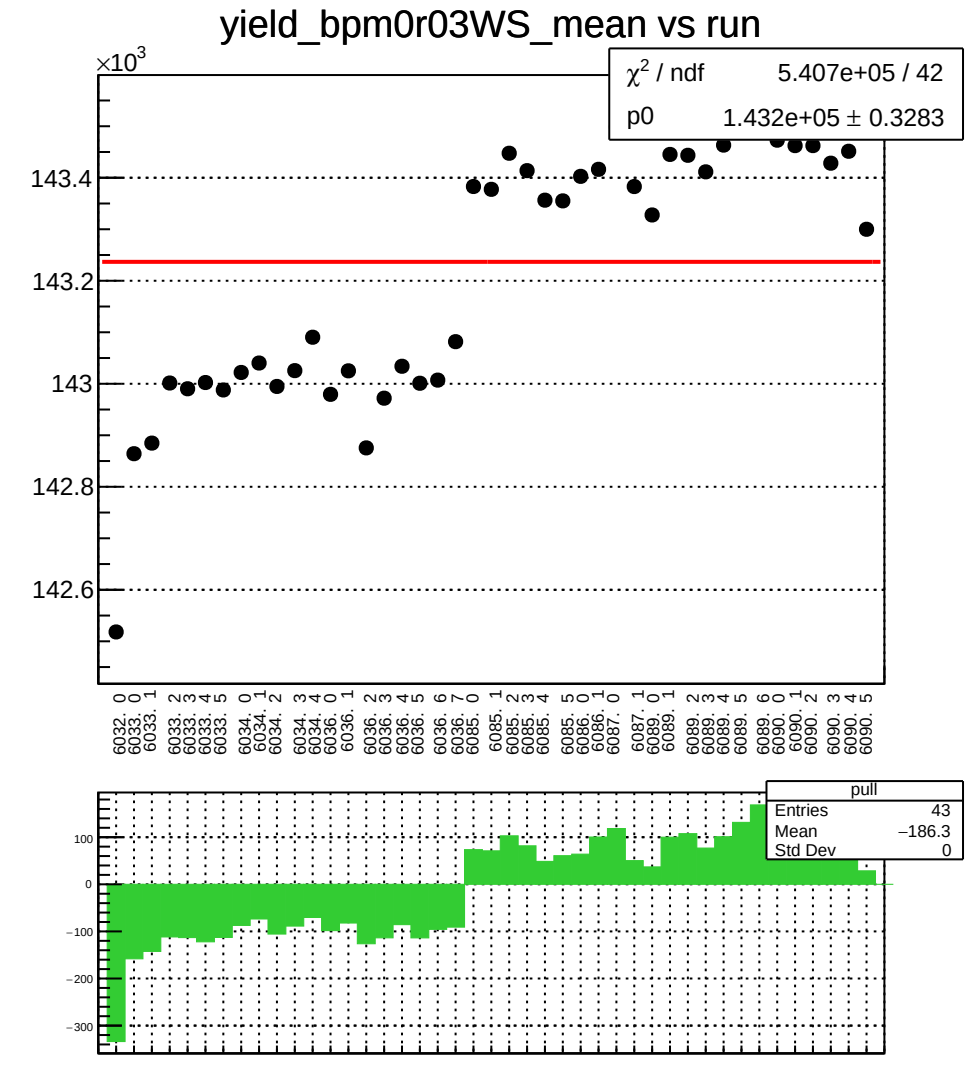

yield_bpm0l08WS_rms vs run
χ² / ndf 1.833e+04 / 42
p0 175 ± 0.1893
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

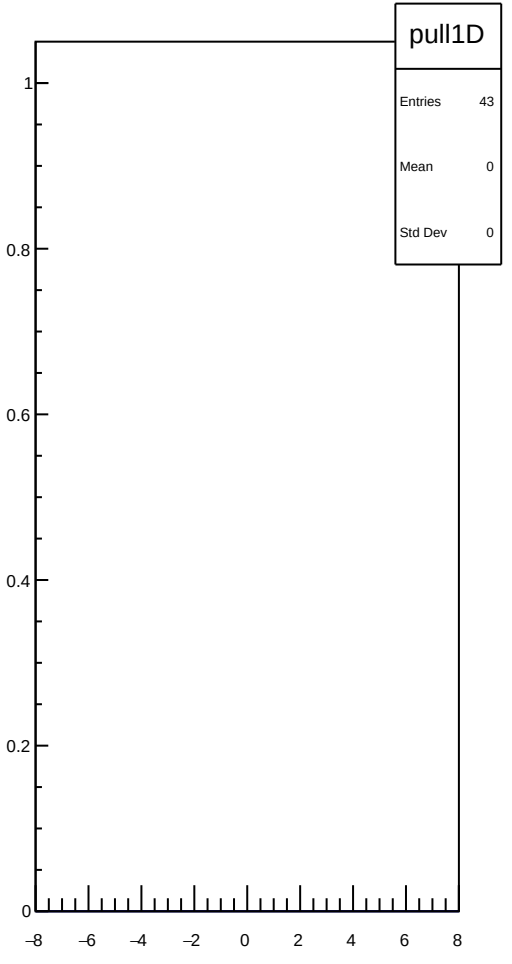

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 9.75e+04 / 42
p0 1.416e+05 ± 0.2669
141.7
141.6
141.5
141.4
141.3
141.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −85.37
Std Dev 0
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean 3.694
Std Dev 3.174
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

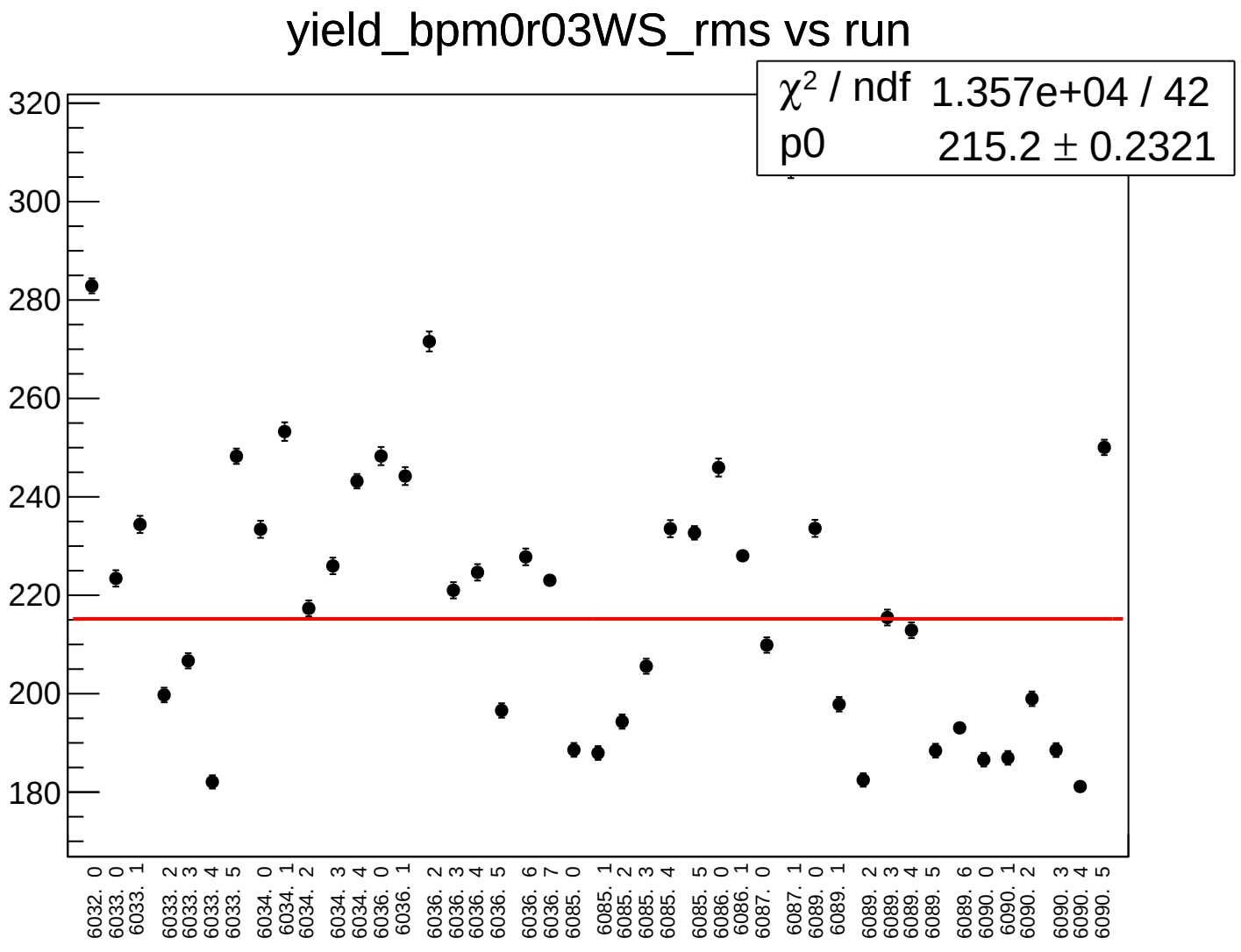

yield_bpm0l09WS_rms vs run
χ² / ndf 1.79e+04 / 42
p0 174.5 ± 0.1887
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

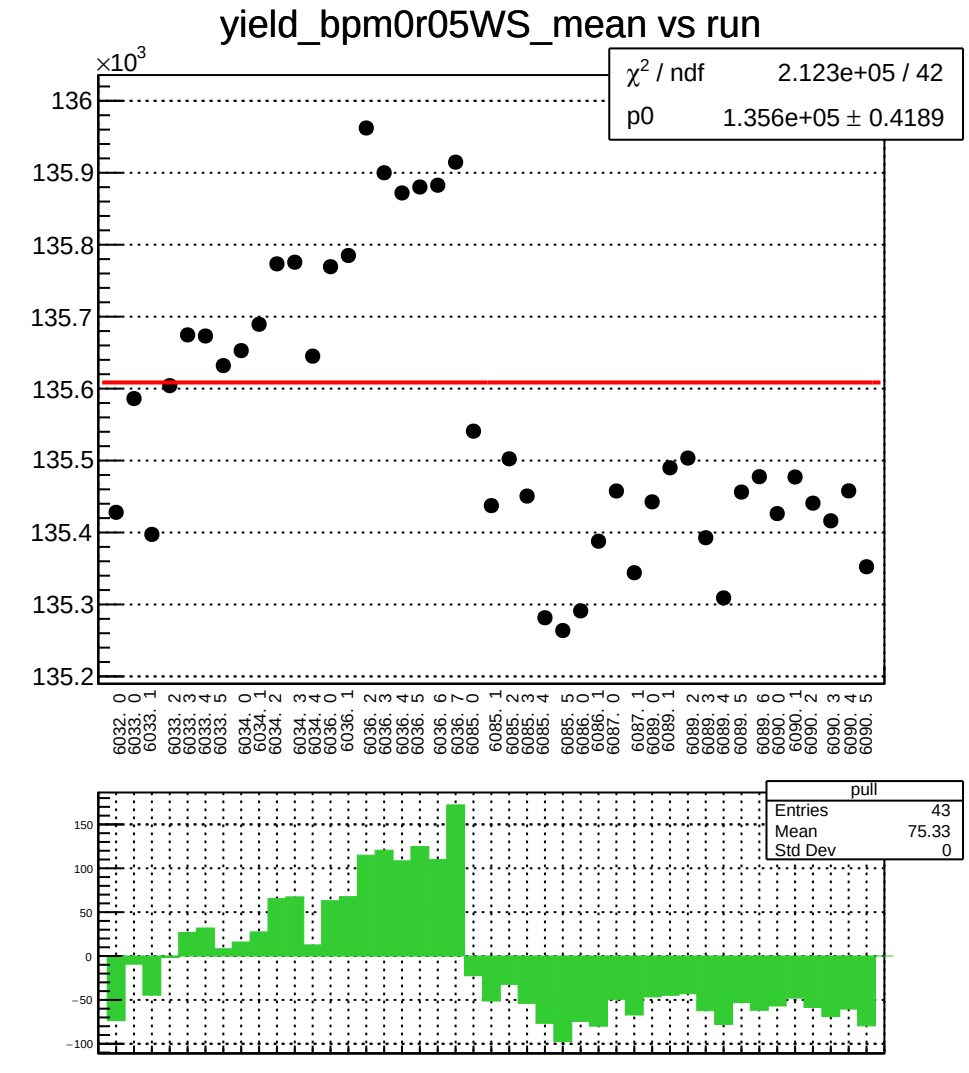

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.523e+04 / 42
p0 1.428e+05 ± 0.2668
142.9
142.8
142.7
142.6
142.5
142.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −132.8
Std Dev 0
50
0
−50
−100
−150
pull1D
Entries 43
Mean 2.671
Std Dev 3.502
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

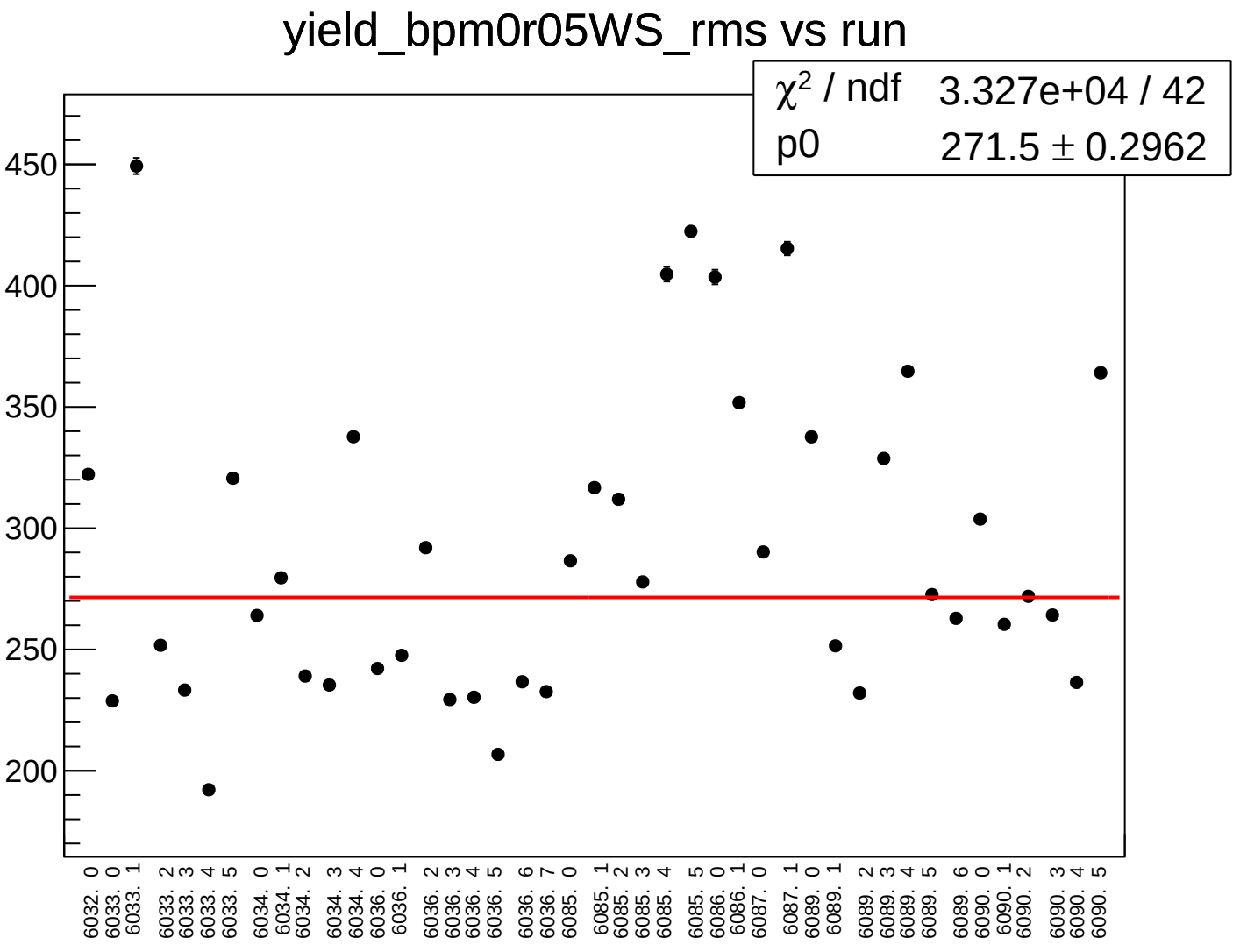

yield_bpm0l10WS_rms vs run
χ² / ndf 2.001e+04 / 42
p0 174.2 ± 0.1886
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

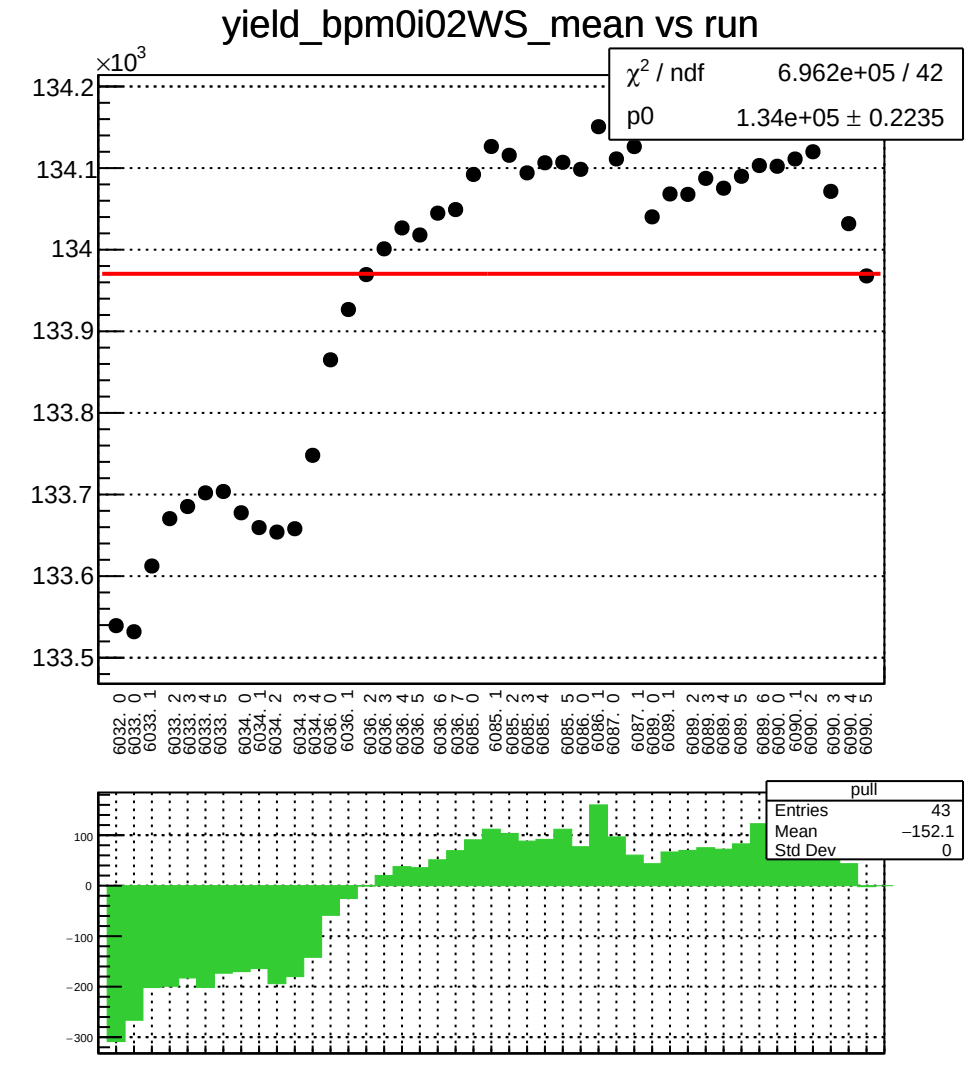

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 5.407e+05 / 42
p0 1.432e+05 ± 0.3283
143.4
143.2
143
142.8
142.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −186.3
Std Dev 0
100
0
−100
−200
−300

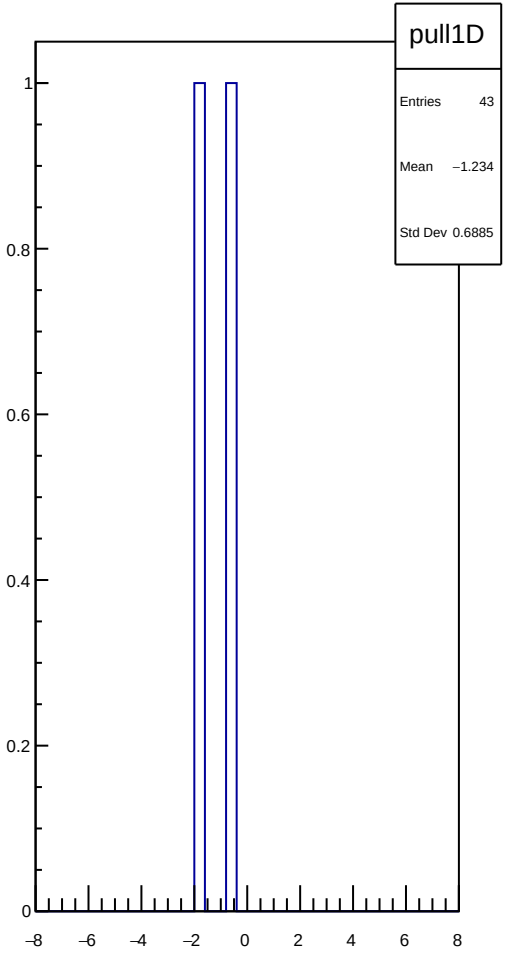

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

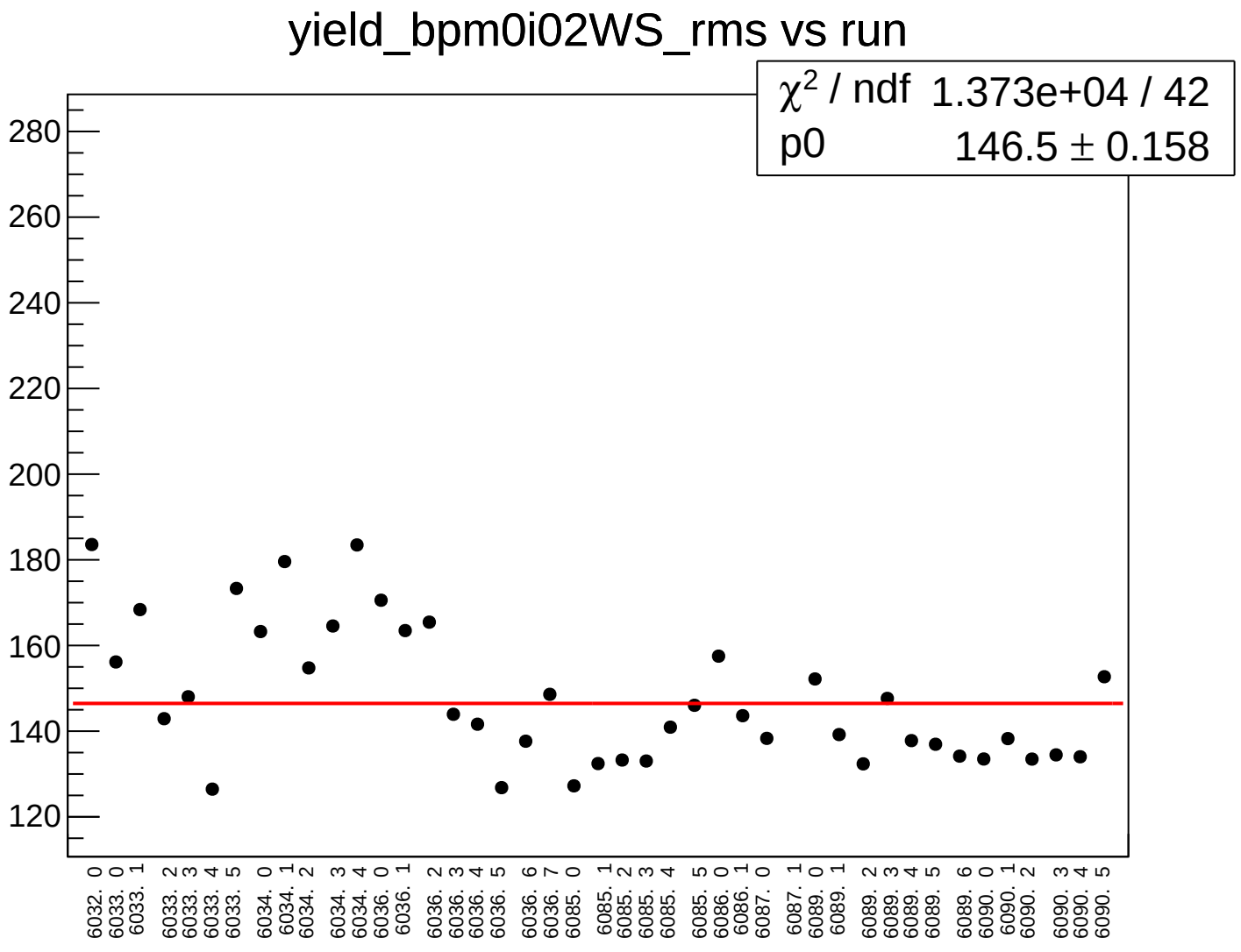

yield_bpm0r03WS_rms vs run
χ² / ndf 1.357e+04 / 42
p0 215.2 ± 0.2321
320
300
280
260
240
220
200
180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

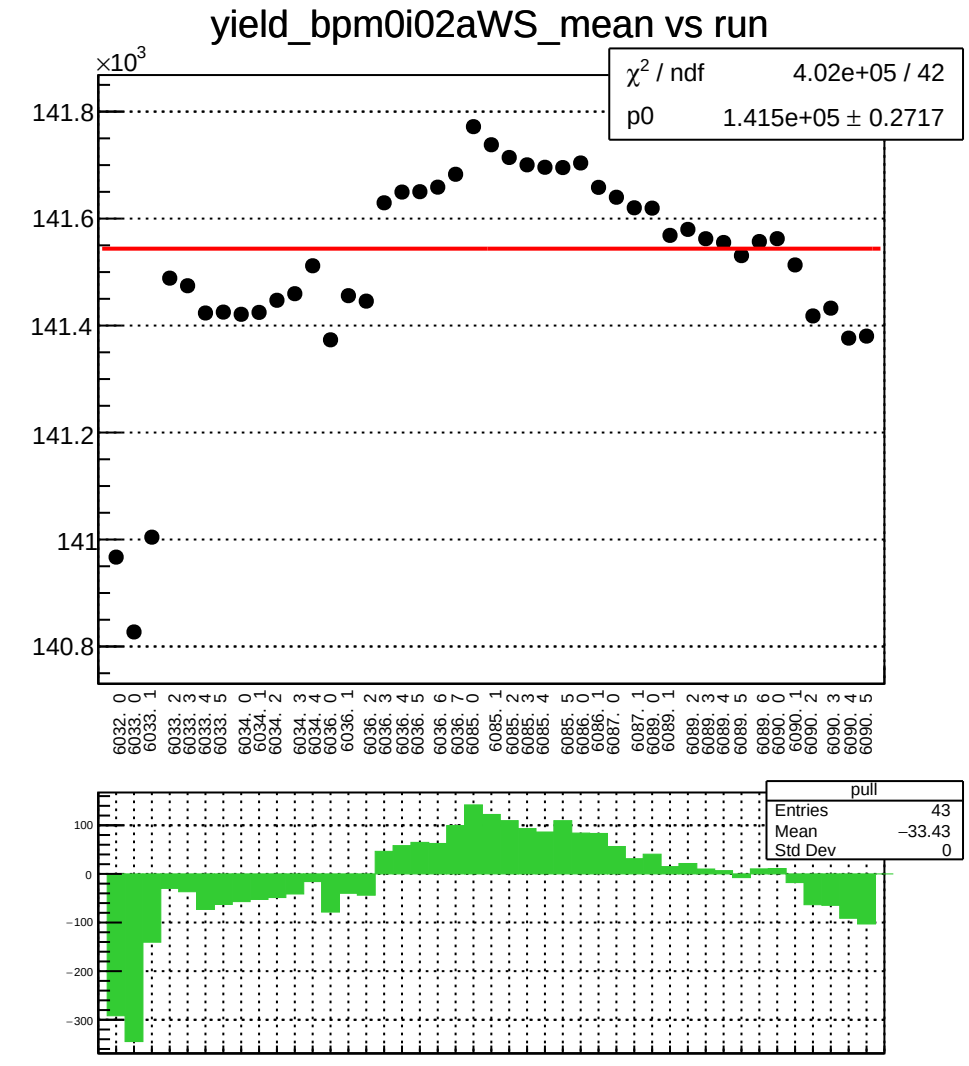

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 2.123e+05 / 42
p0 1.356e+05 ± 0.4189
136
135.9
135.8
135.7
135.6
135.5
135.4
135.3
135.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 75.33
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 43
Mean −1.645
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

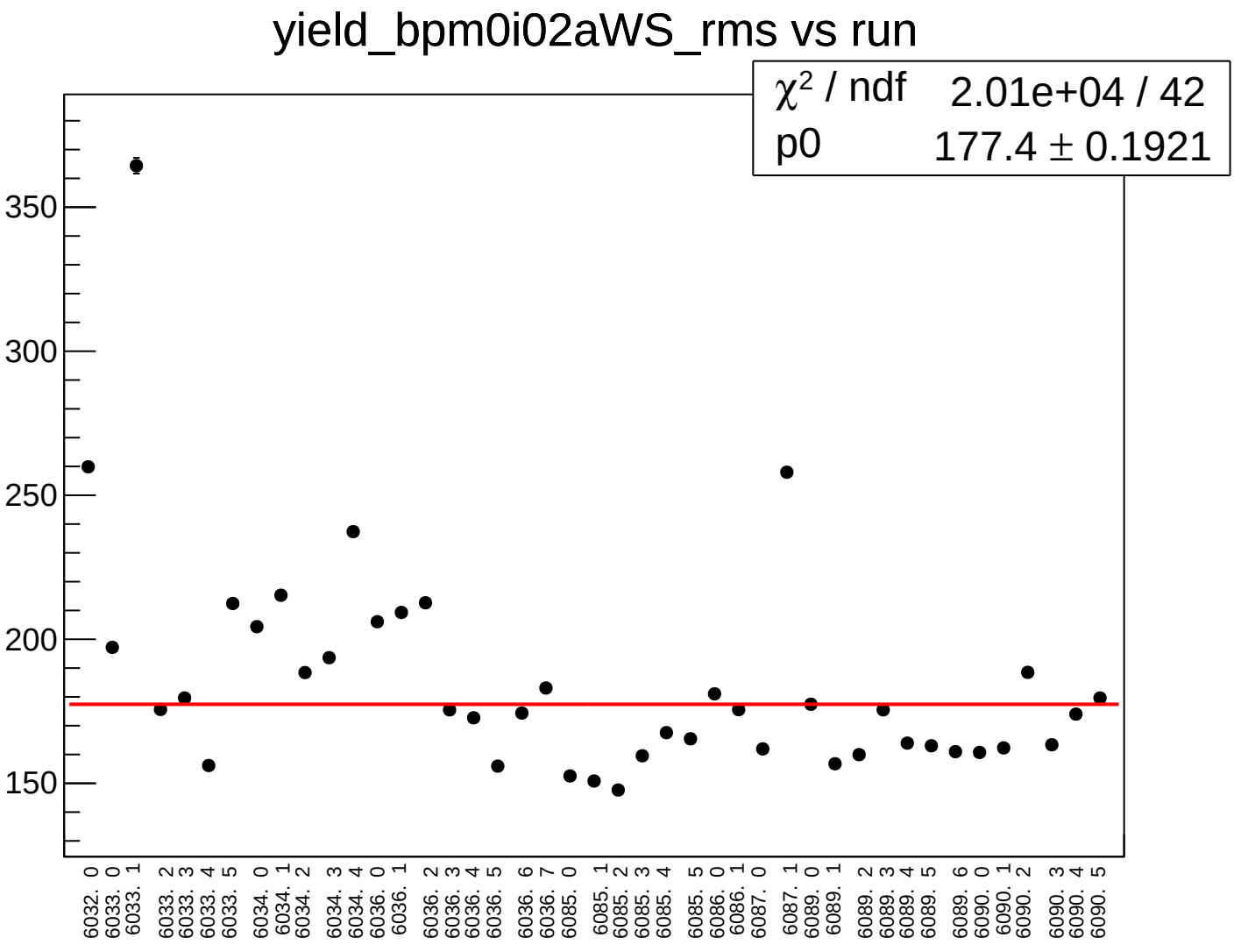

yield_bpm0r05WS_rms vs run
χ² / ndf 3.327e+04 / 42
p0 271.5 ± 0.2962
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

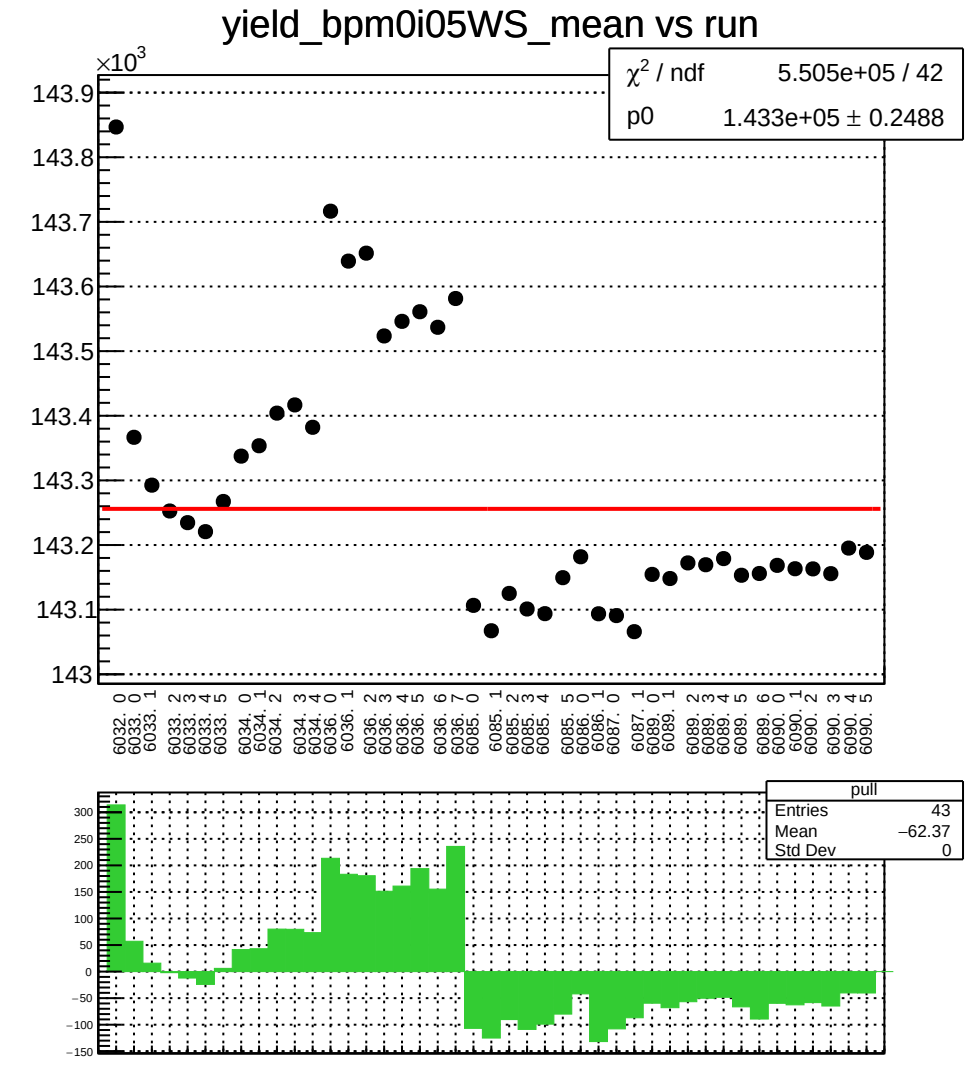

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 6.962e+05 / 42
p0 1.34e+05 ± 0.2235
134.2
134.1
134
133.9
133.8
133.7
133.6
133.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −152.1
Std Dev 0
100
0
−100
−200
−300

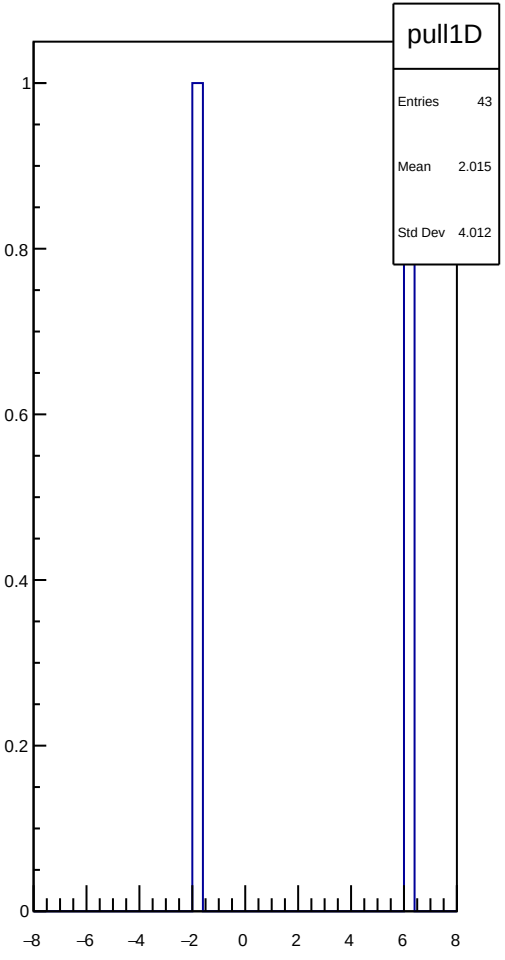

pull1D
Entries 43
Mean −1.234
Std Dev 0.6885
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

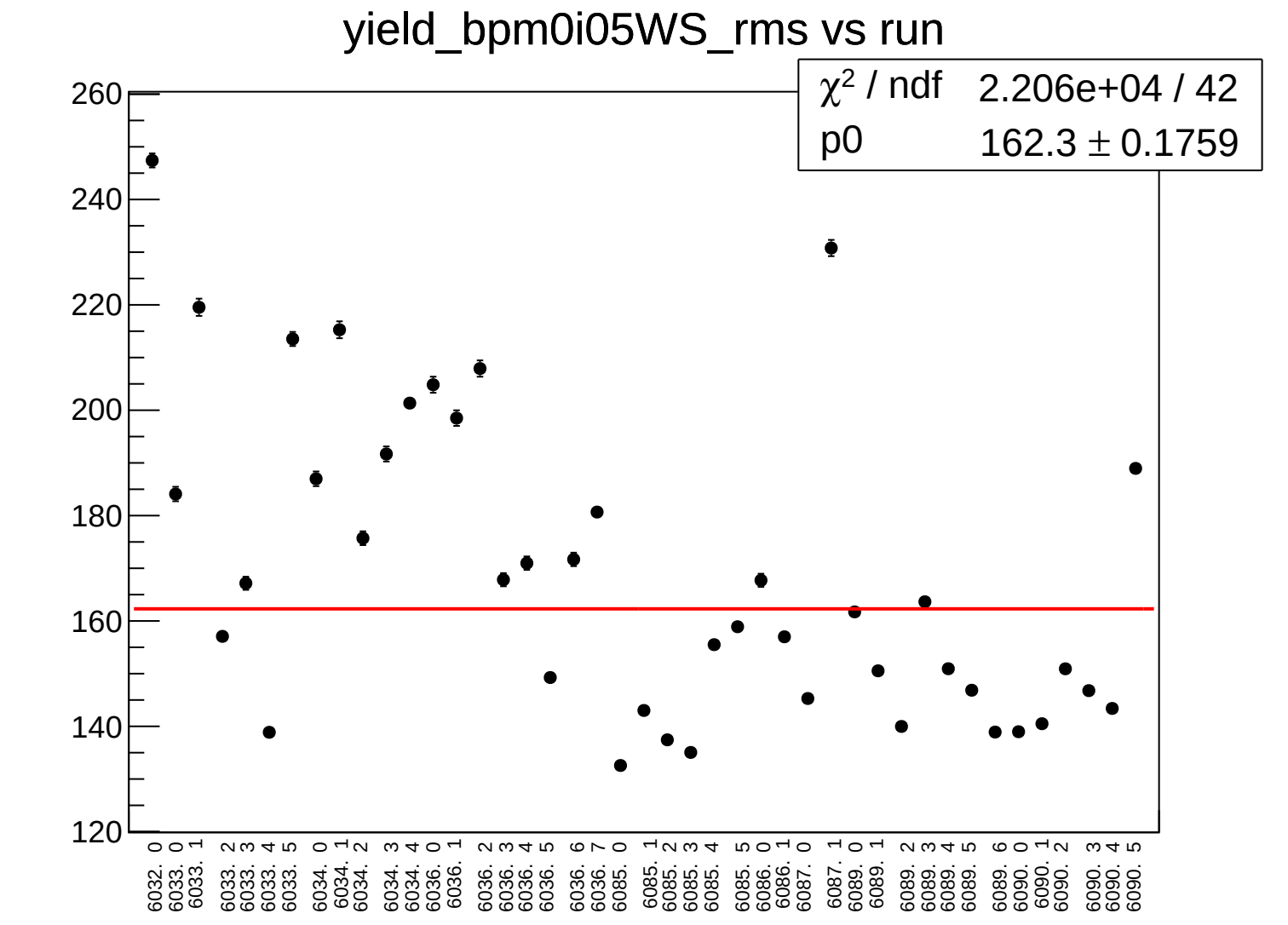

yield_bpm0i02WS_rms vs run
χ² / ndf 1.373e+04 / 42
p0 146.5 ± 0.158
280
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

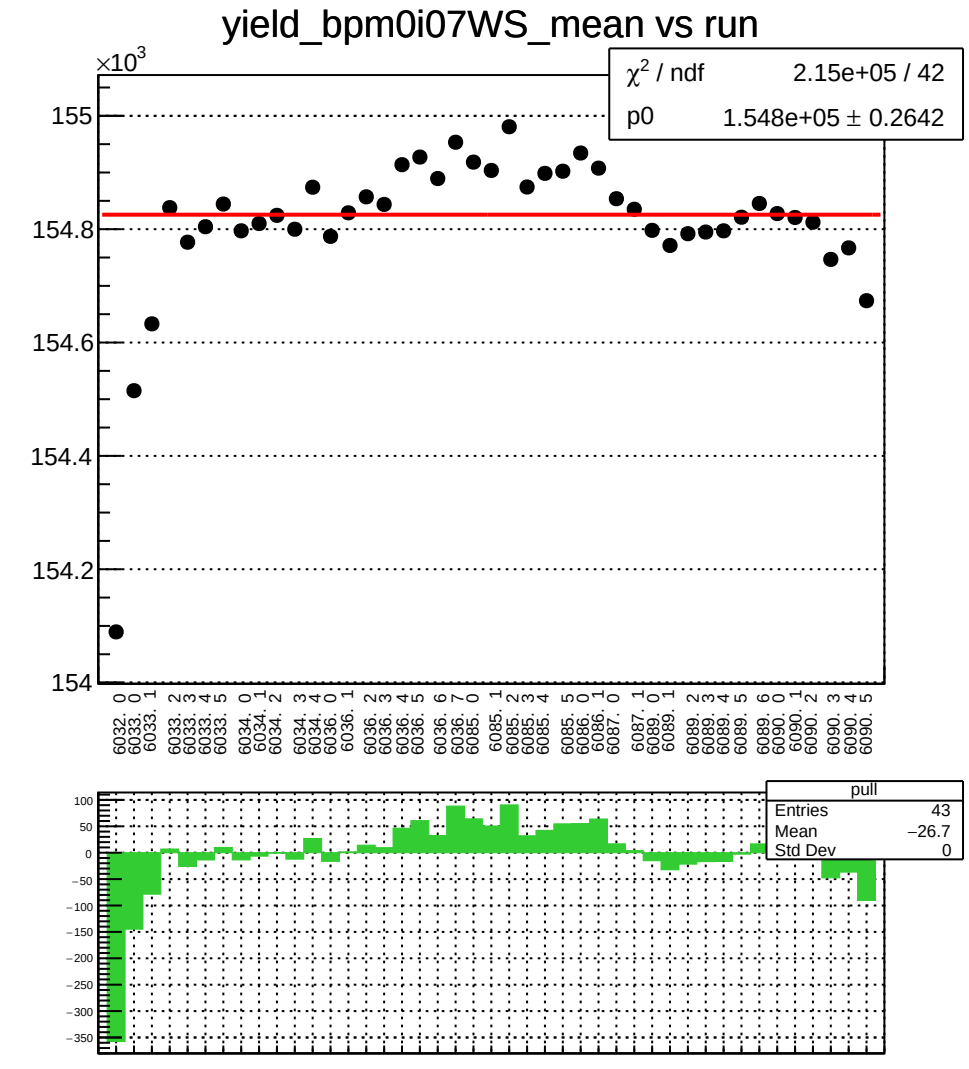

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 4.02e+05 / 42
p0 1.415e+05 ± 0.2717
141.8
141.6
141.4
141.2
141
140.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −33.43
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 43
Mean −0.44
Std Dev 7.131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

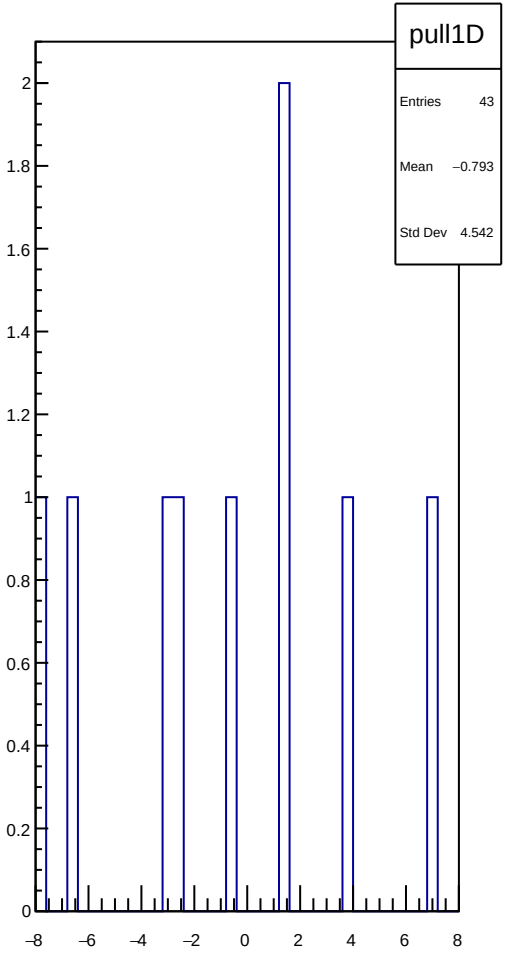

yield_bpm0i02aWS_rms vs run
χ² / ndf 2.01e+04 / 42
p0 177.4 ± 0.1921
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

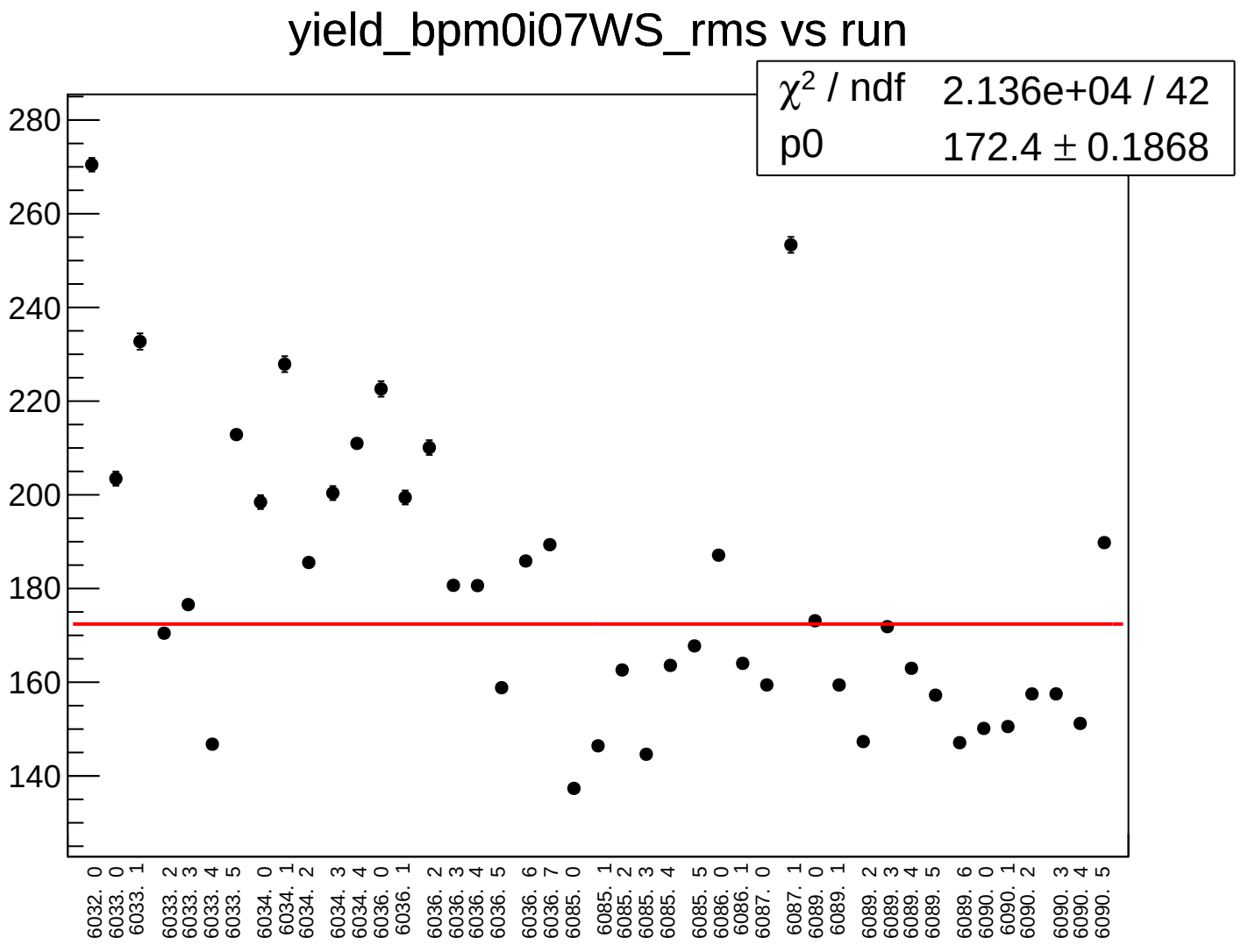

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 5.505e+05 / 42
p0 1.433e+05 ± 0.2488
143.9
143.8
143.7
143.6
143.5
143.4
143.3
143.2
143.1
143
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −62.37
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

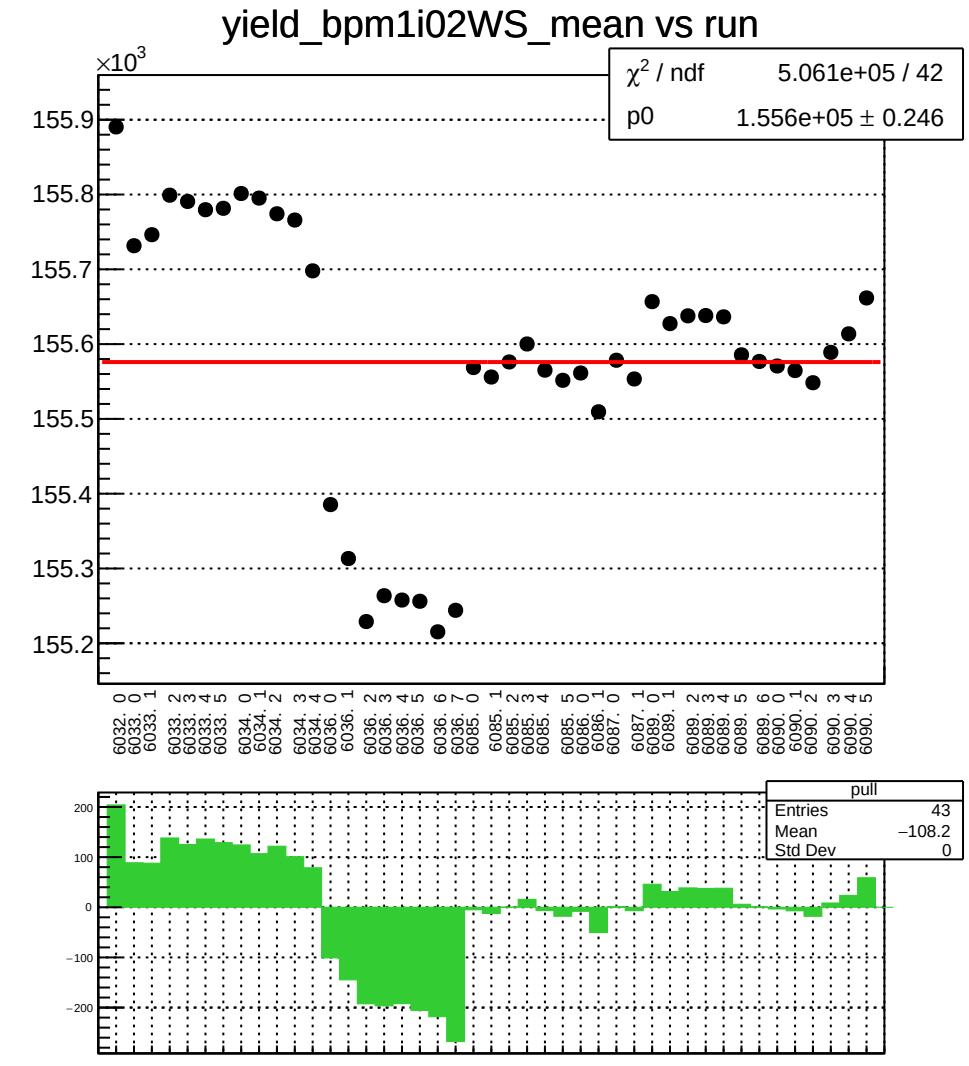

pull1D
Entries 43
Mean 2.015
Std Dev 4.012
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

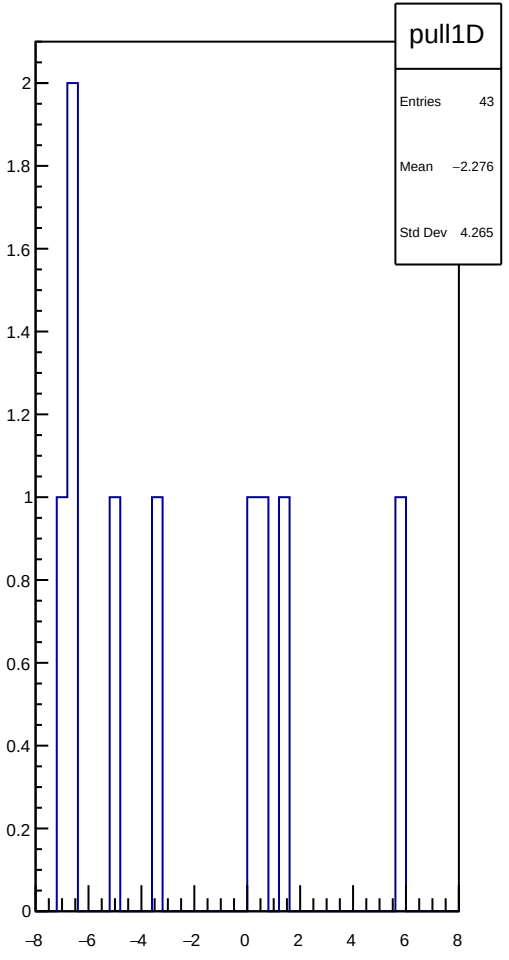

yield_bpm0i05WS_rms vs run
χ² / ndf 2.206e+04 / 42
p0 162.3 ± 0.1759
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

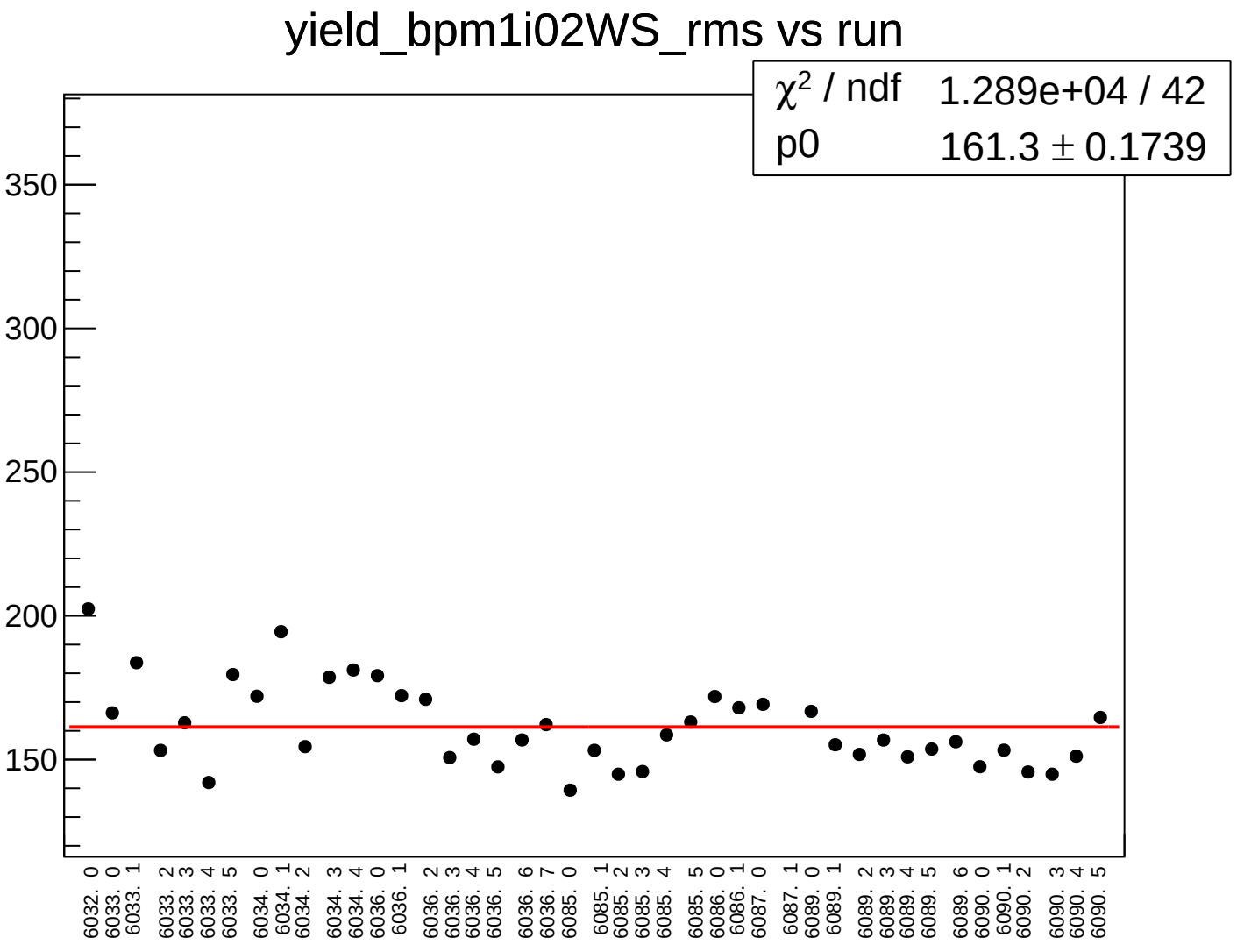

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.15e+05 / 42
p0 1.548e+05 ± 0.2642
155
154.8
154.6
154.4
154.2
154
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.7
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300
−350

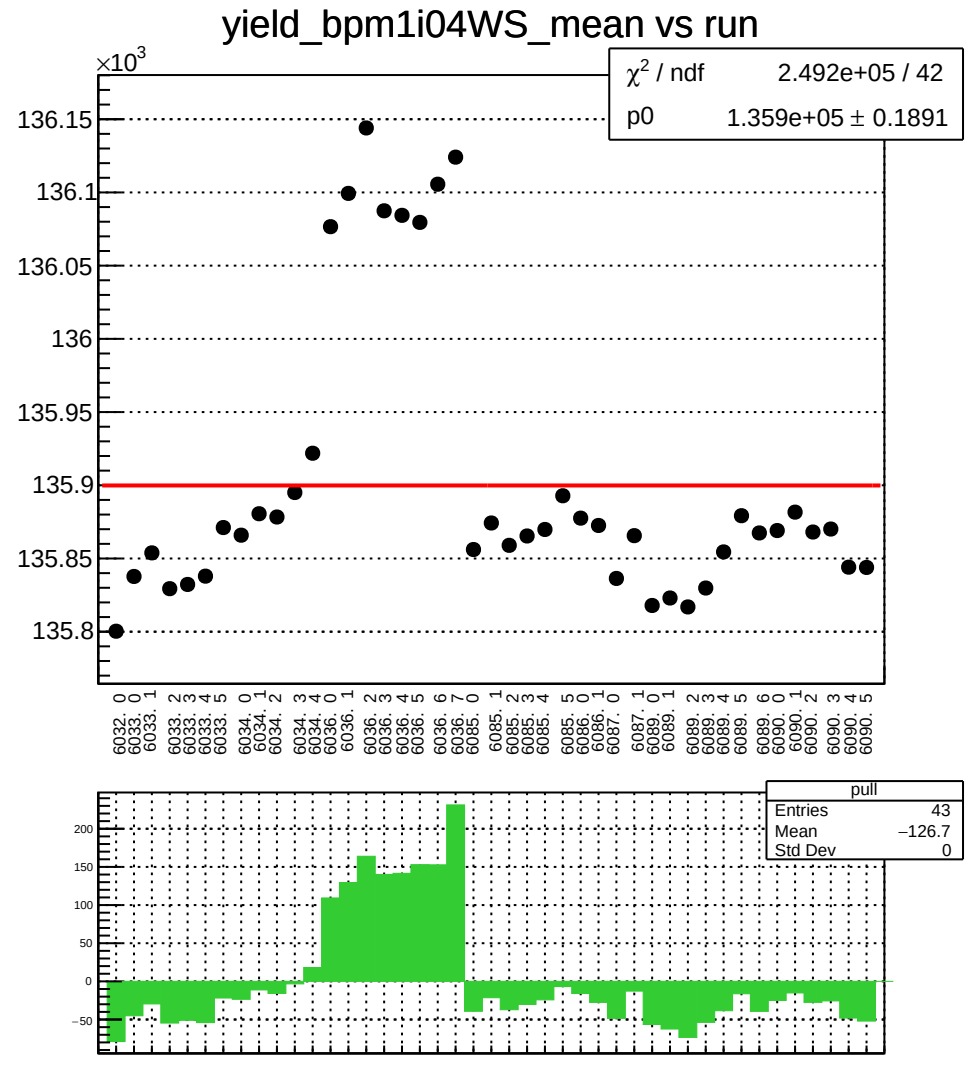

pull1D
Entries 43
Mean −0.793
Std Dev 4.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

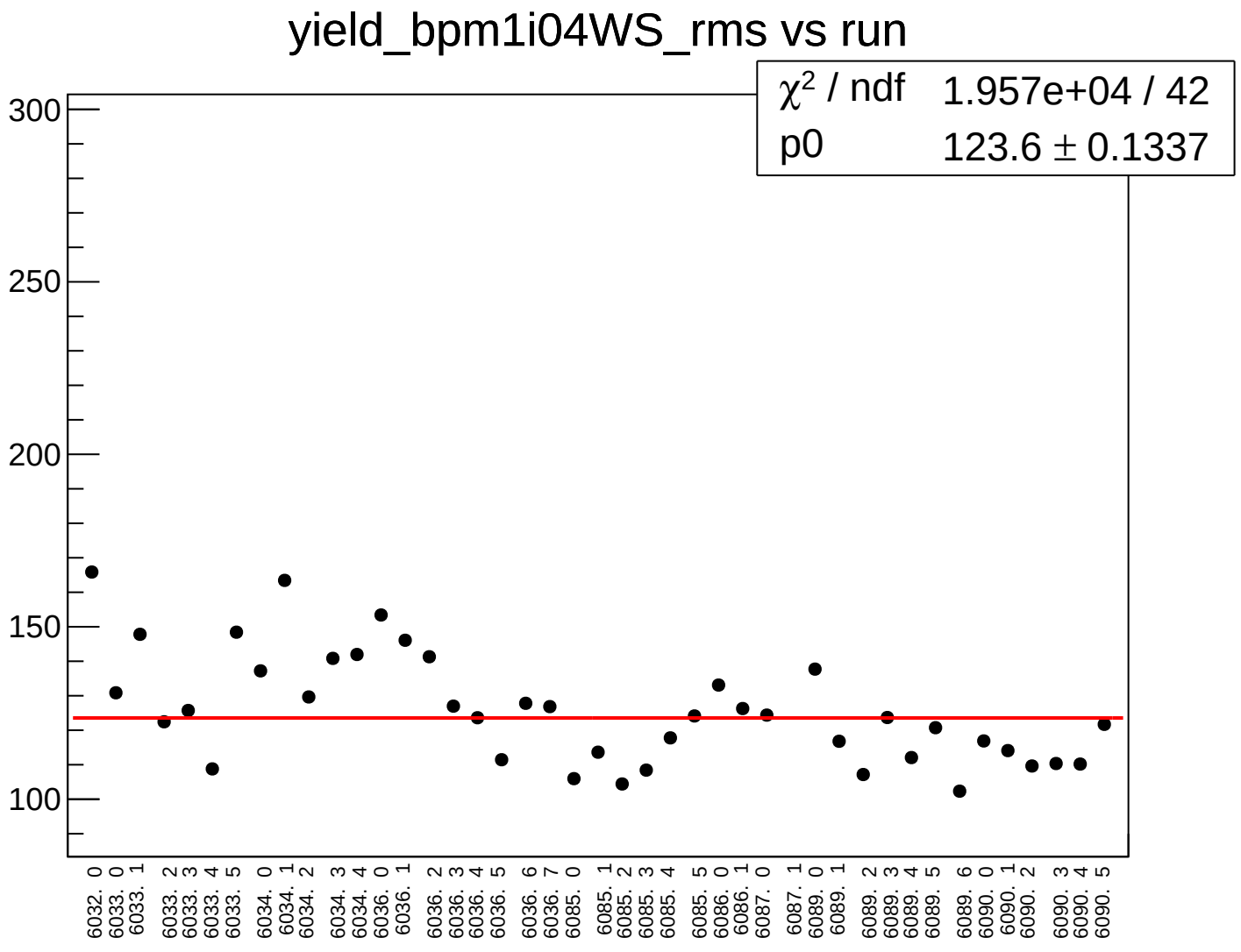

yield_bpm0i07WS_rms vs run
χ² / ndf 2.136e+04 / 42
p0 172.4 ± 0.1868
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

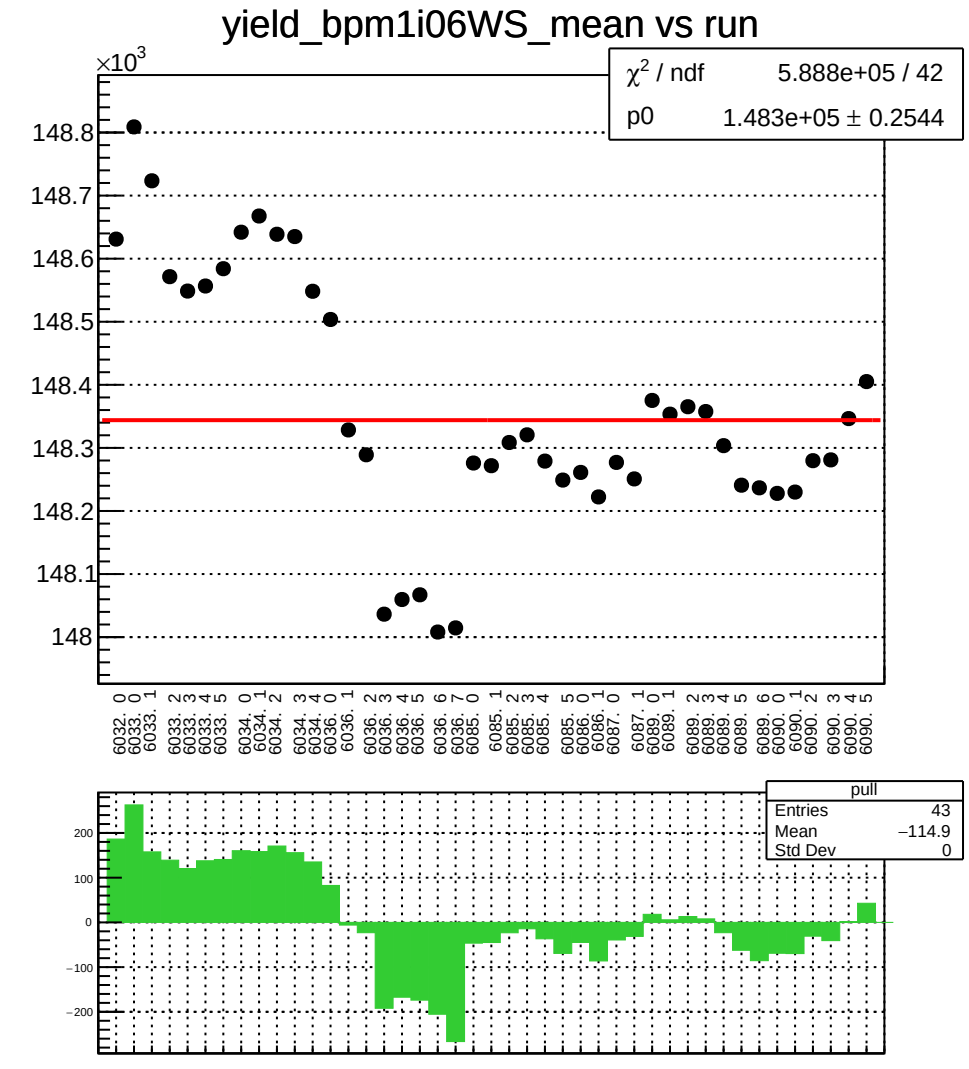

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.061e+05 / 42
p0 1.556e+05 ± 0.246
155.9
155.8
155.7
155.6
155.5
155.4
155.3
155.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −108.2
Std Dev 0
200
100
0
−100
−200

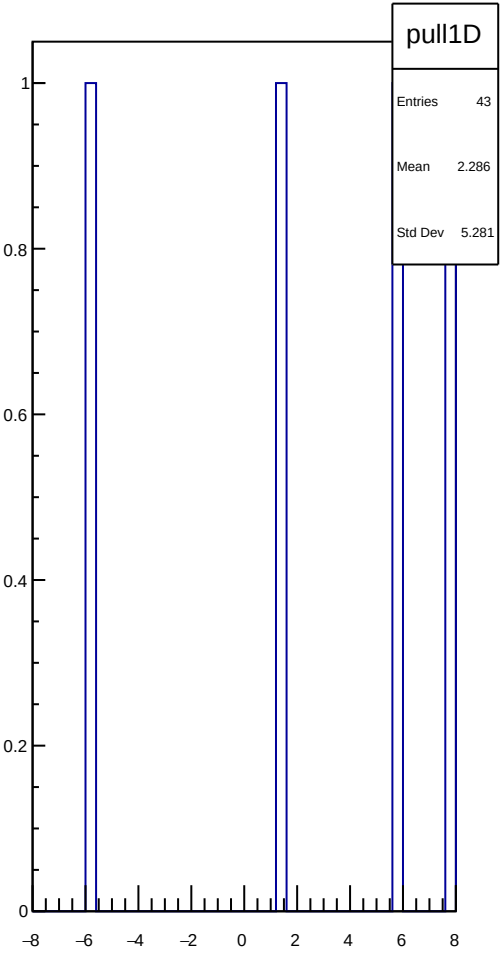

pull1D
Entries 43
Mean −2.276
Std Dev 4.265
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

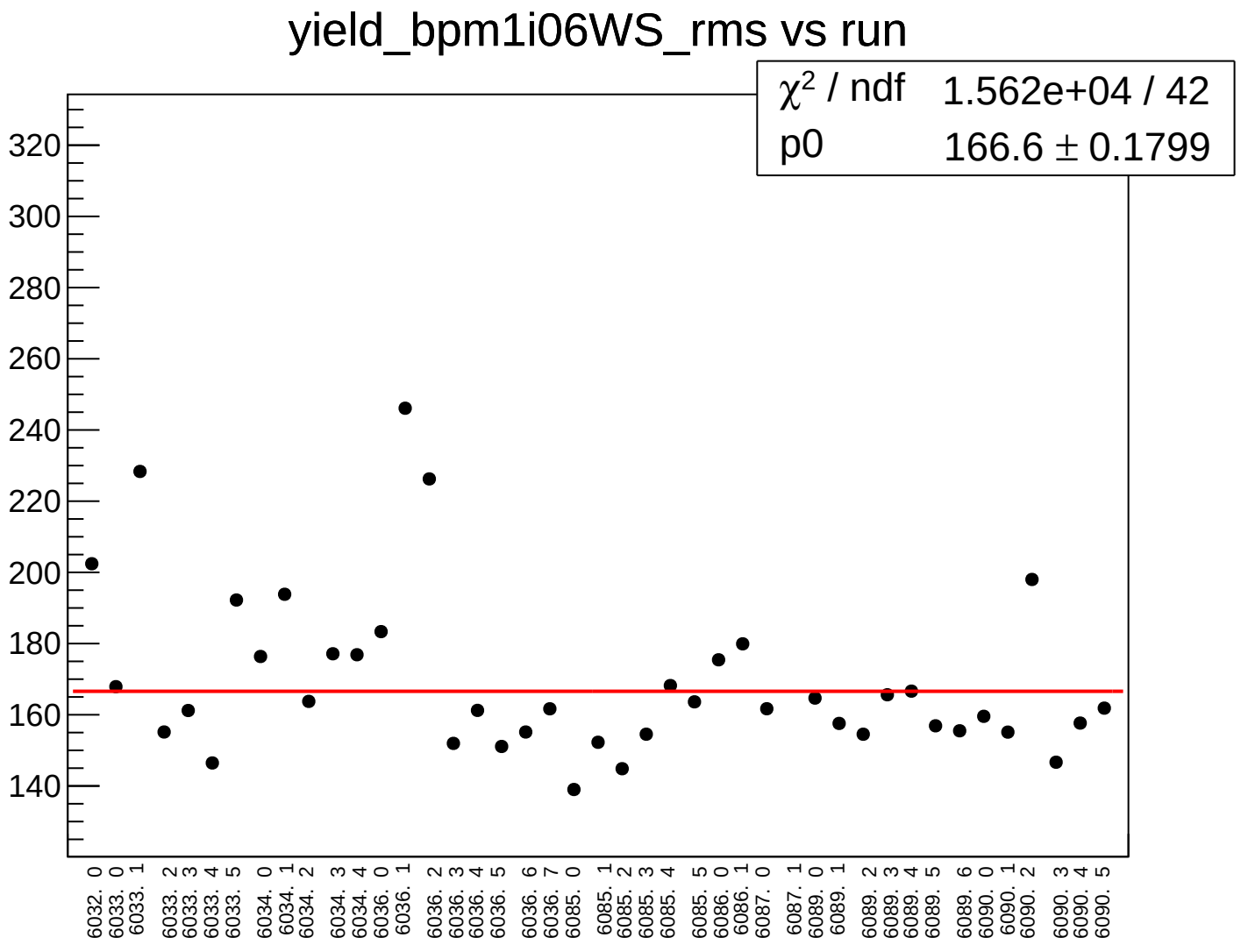

yield_bpm1i02WS_rms vs run
χ² / ndf 1.289e+04 / 42
p0 161.3 ± 0.1739
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

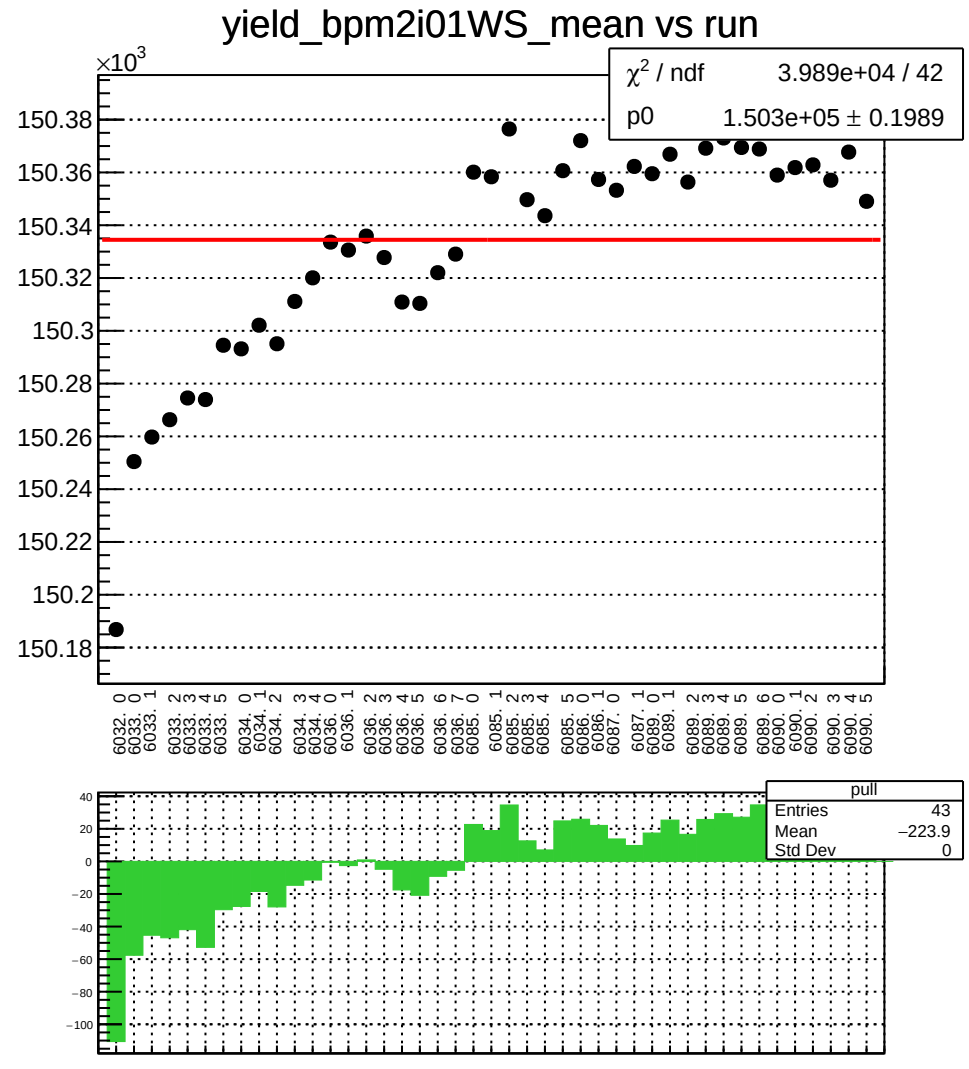

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.492e+05 / 42
p0 1.359e+05 ± 0.1891
136.15
136.1
136.05
136
135.95
135.9
135.85
135.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −126.7
Std Dev 0
200
150
100
50
0
−50
pull1D
Entries 43
Mean −5.005
Std Dev 1.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

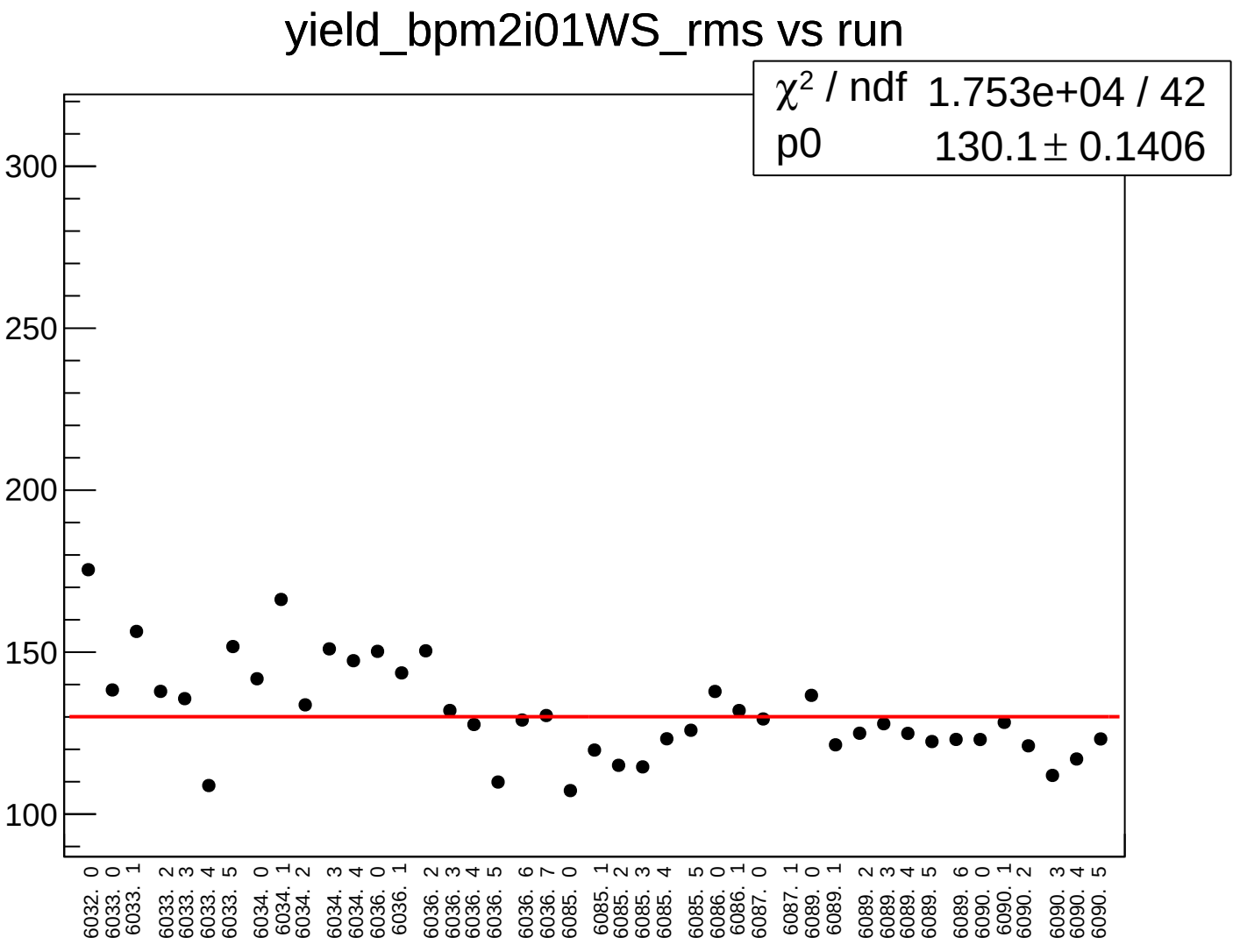

yield_bpm1i04WS_rms vs run
χ² / ndf 1.957e+04 / 42
p0 123.6 ± 0.1337
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

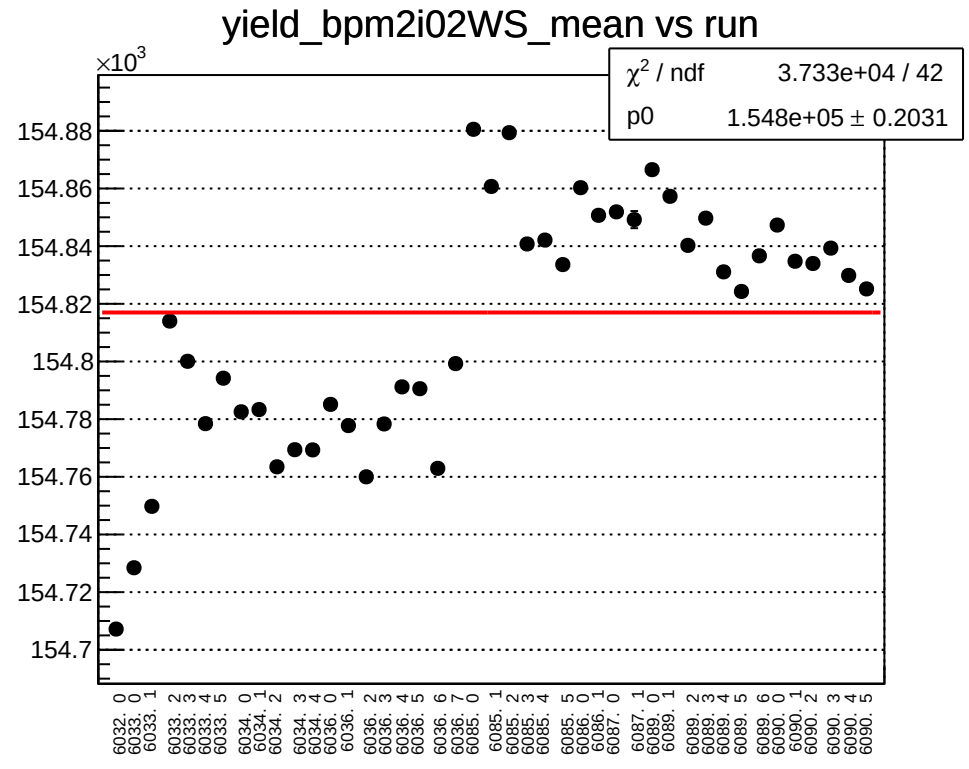

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.888e+05 / 42
p0 1.483e+05 ± 0.2544
148.8
148.7
148.6
148.5
148.4
148.3
148.2
148.1
148
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −114.9
Std Dev 0
200
100
0
−100
−200

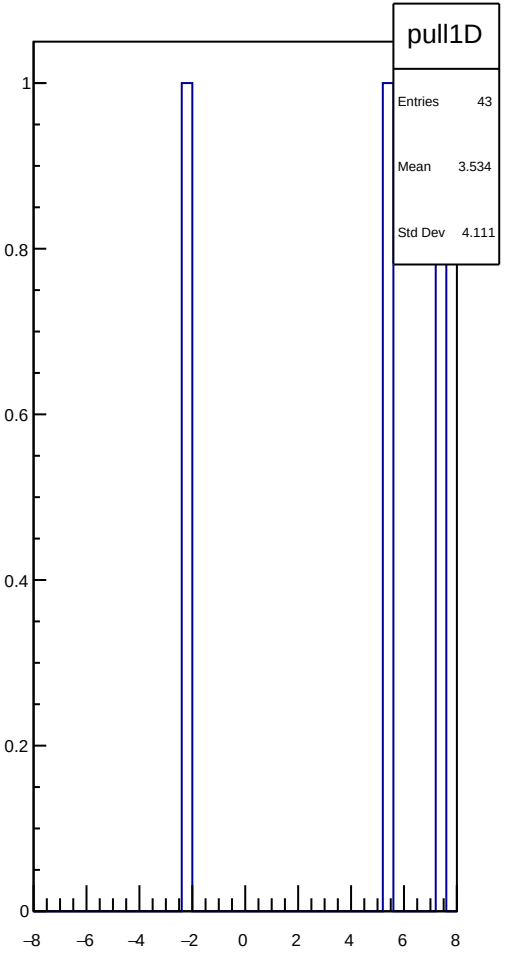

pull1D
Entries 43
Mean 2.286
Std Dev 5.281
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

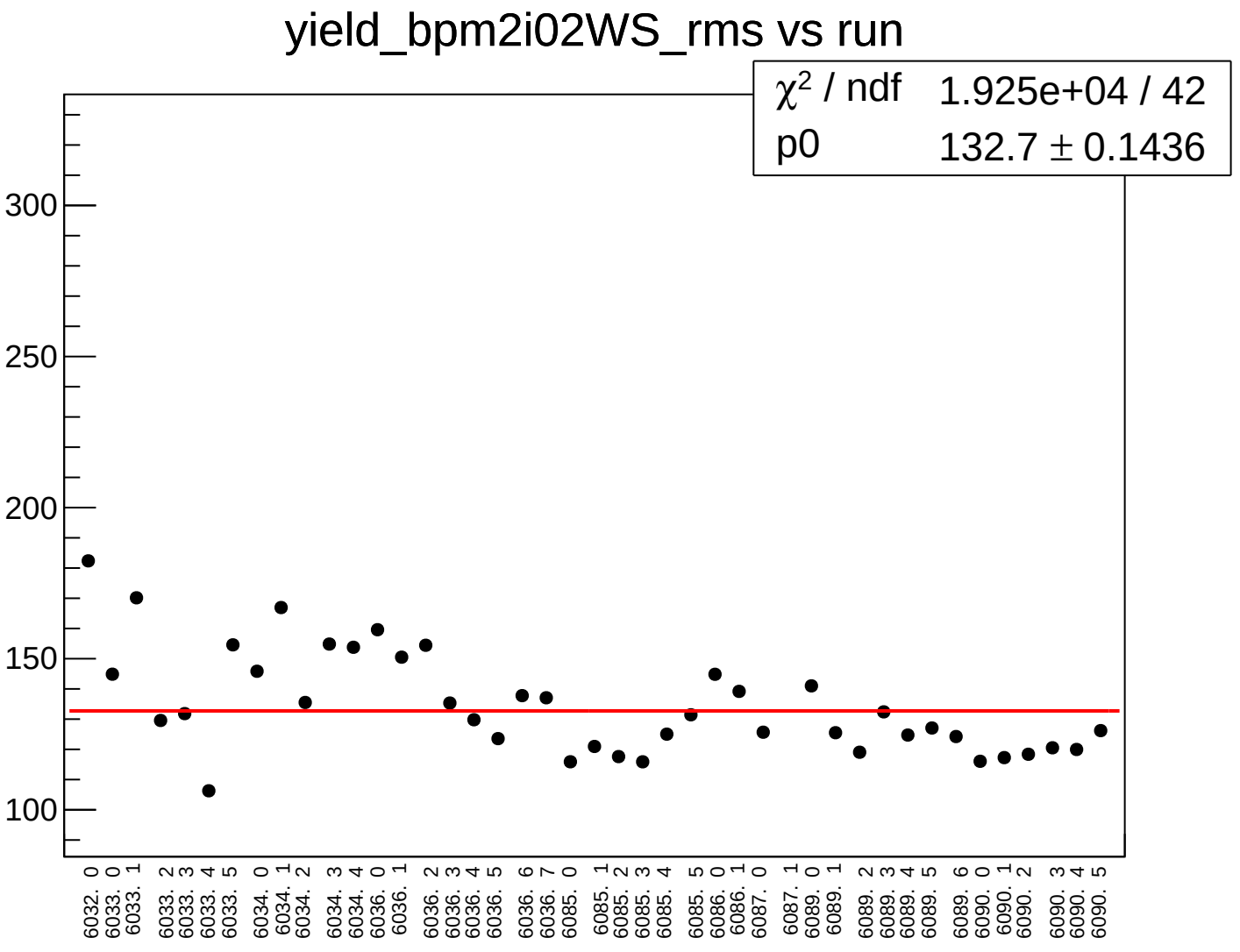

yield_bpm1i06WS_rms vs run
χ² / ndf 1.562e+04 / 42
p0 166.6 ± 0.1799
320
300
280
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

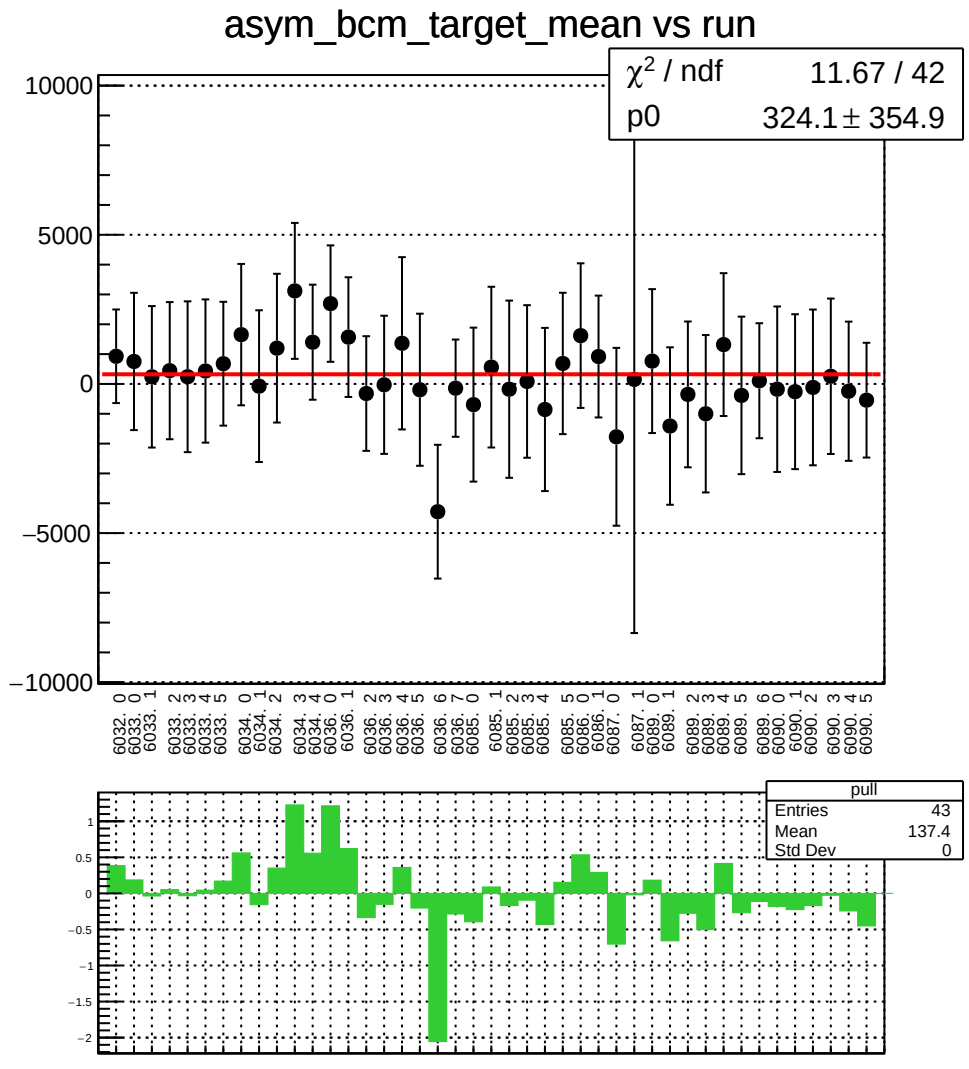

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.989e+04 / 42
p0 1.503e+05 ± 0.1989
150.38
150.36
150.34
150.32
150.3
150.28
150.26
150.24
150.22
150.2
150.18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −223.9
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 43
Mean −0.9104
Std Dev 4.186
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

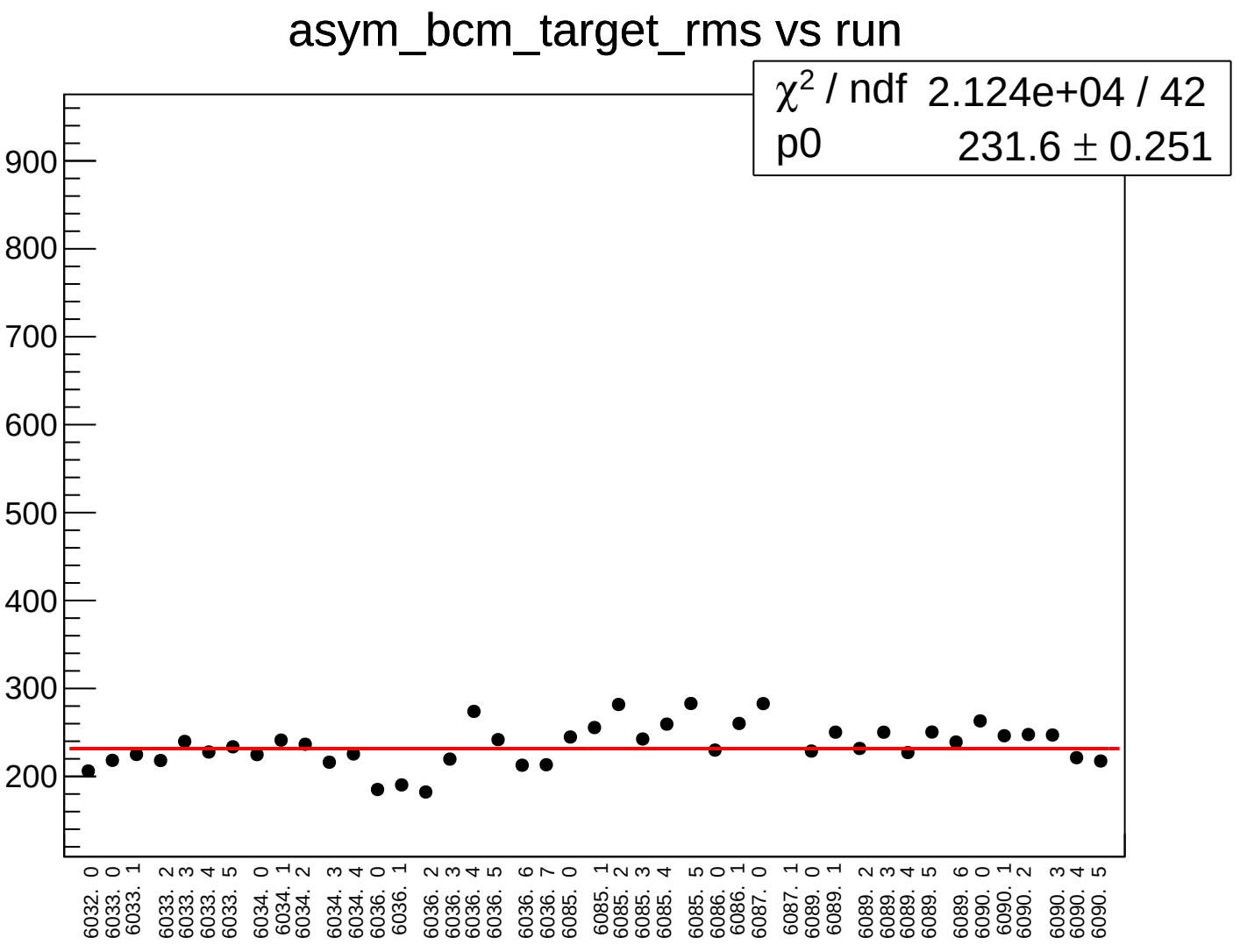

yield_bpm2i01WS_rms vs run
χ² / ndf 1.753e+04 / 42
p0 130.1 ± 0.1406
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

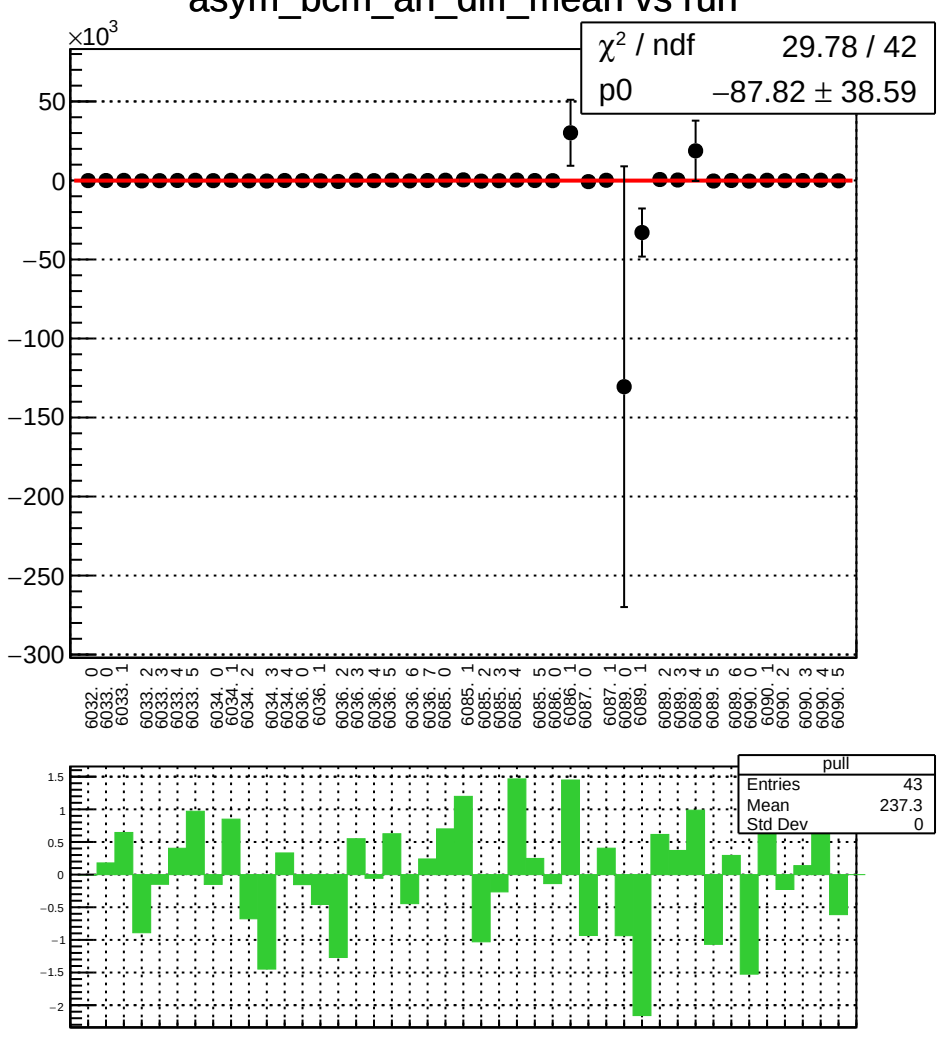

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3.733e+04 / 42
p0 1.548e+05 ± 0.2031
154.88
154.86
154.84
154.82
154.8
154.78
154.76
154.74
154.72
154.7
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −146.4
Std Dev 0
40
20
0
−20
−40
−60
−80

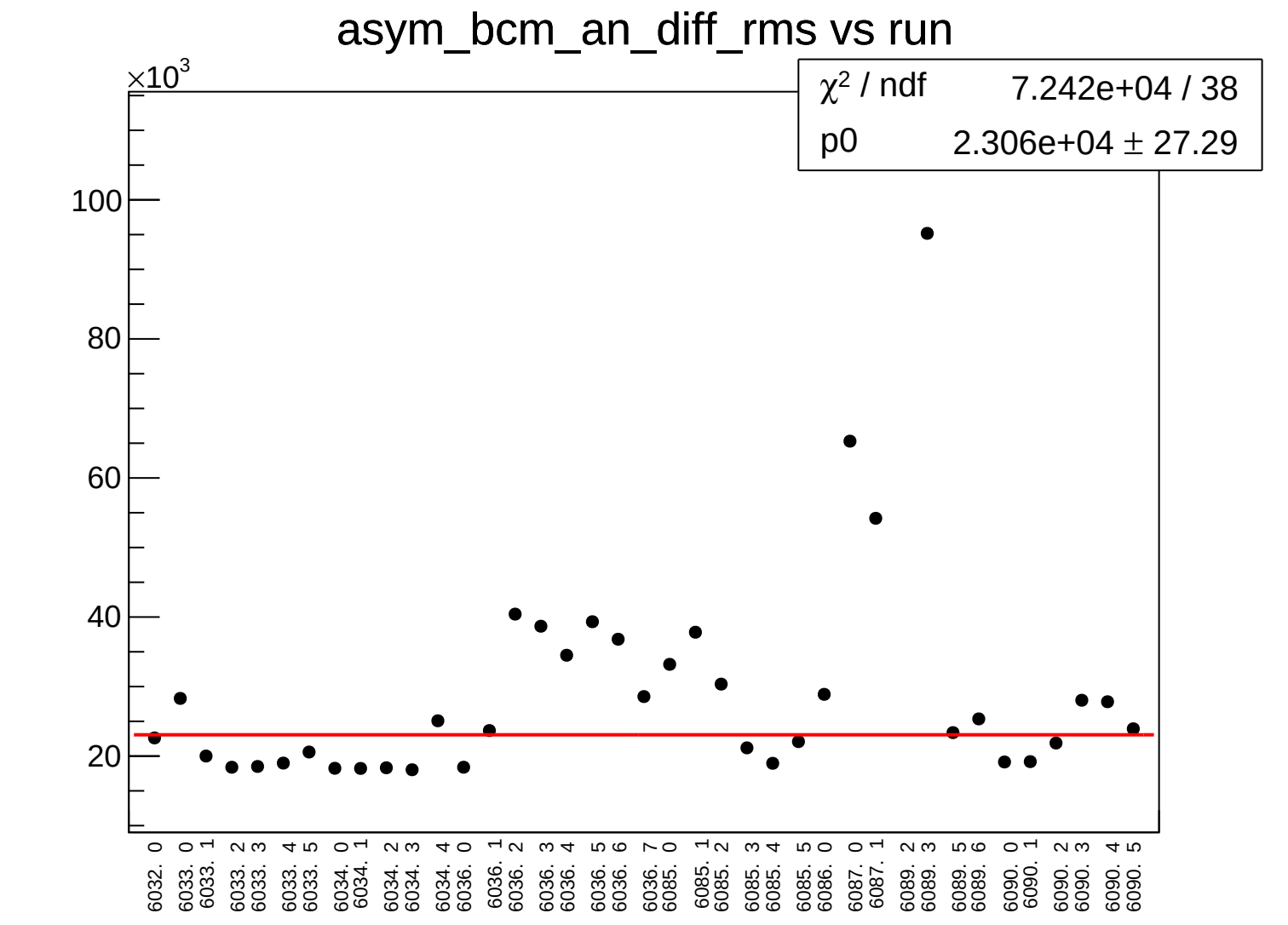

pull1D
Entries 43
Mean 3.534
Std Dev 4.111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

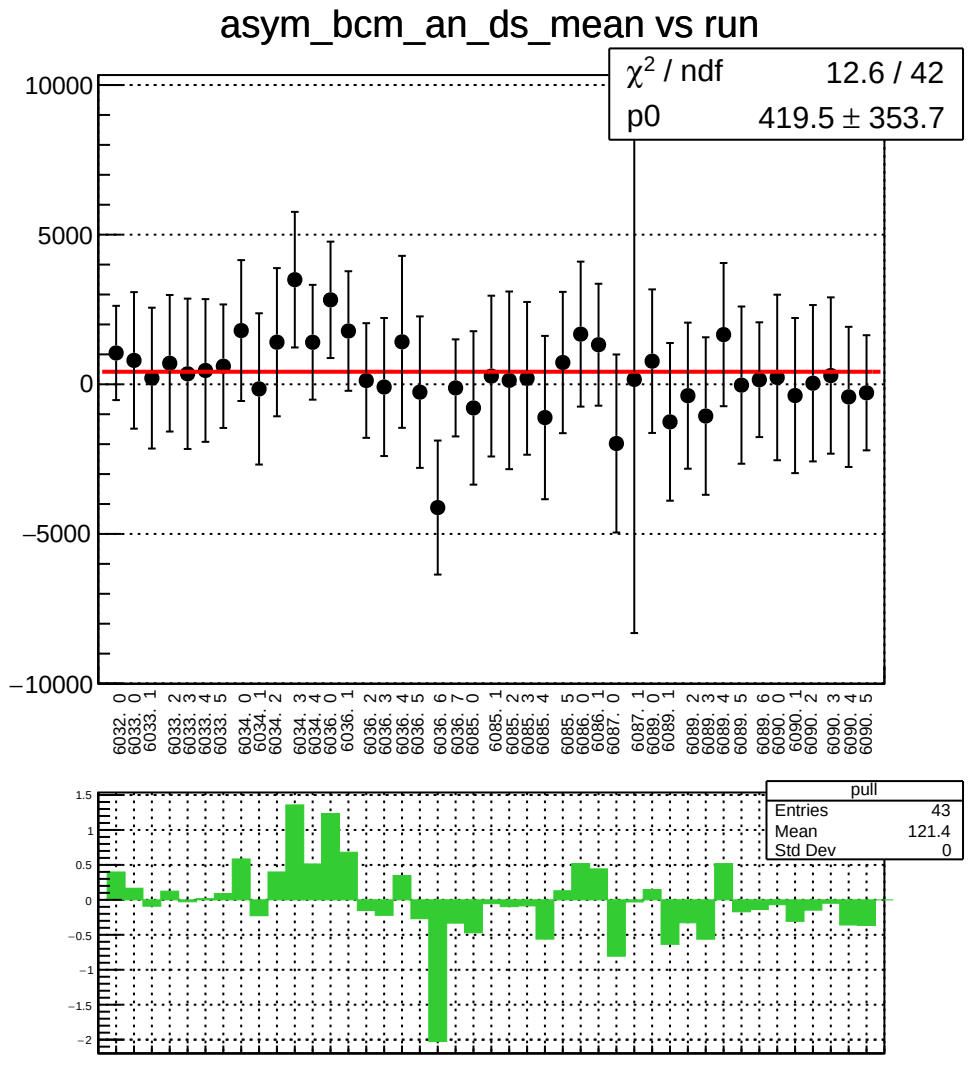

yield_bpm2i02WS_rms vs run
χ² / ndf 1.925e+04 / 42
p0 132.7 ± 0.1436
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

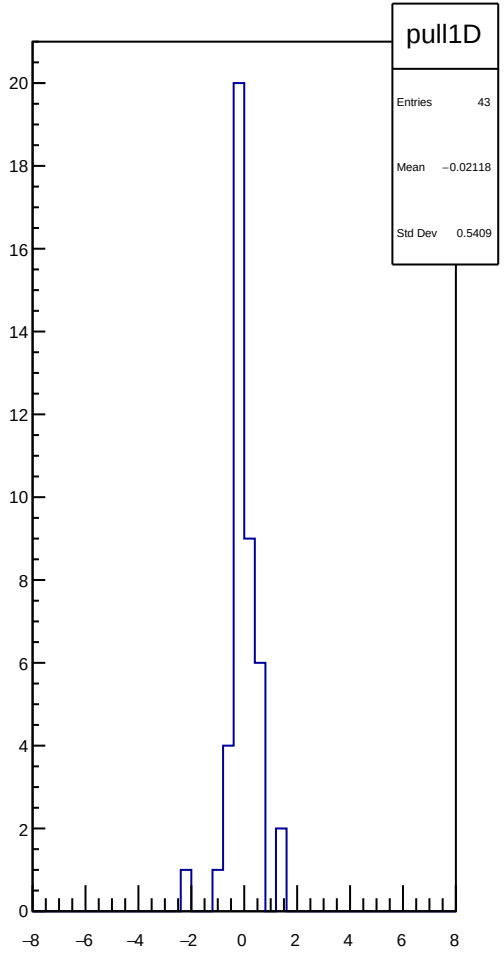

asym_bcm_target_mean vs run
χ² / ndf 11.67 / 42
p0 324.1 ± 354.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 137.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0182
Std Dev 0.5206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

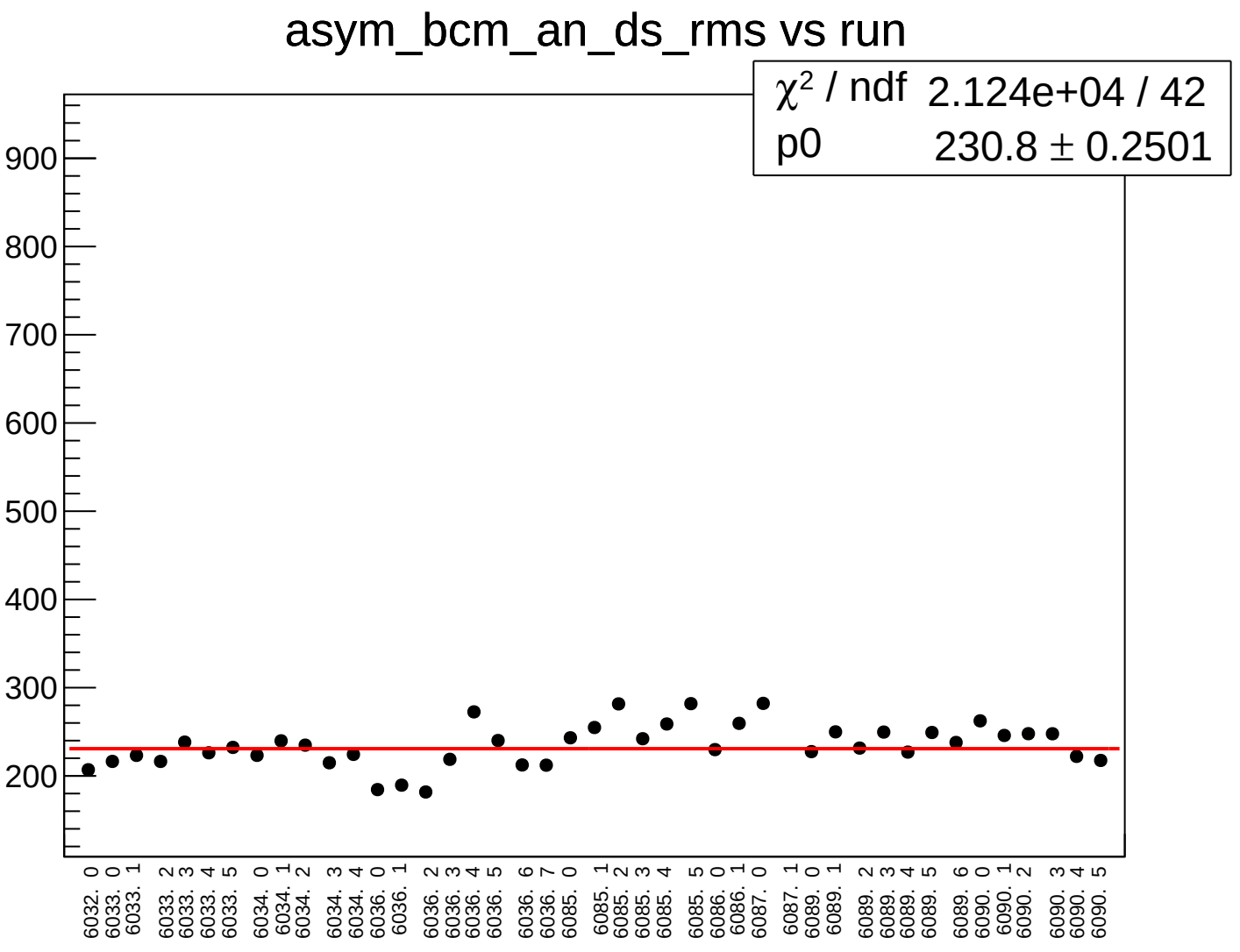

asym_bcm_target_rms vs run
χ² / ndf 2.124e+04 / 42
p0 231.6 ± 0.251
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

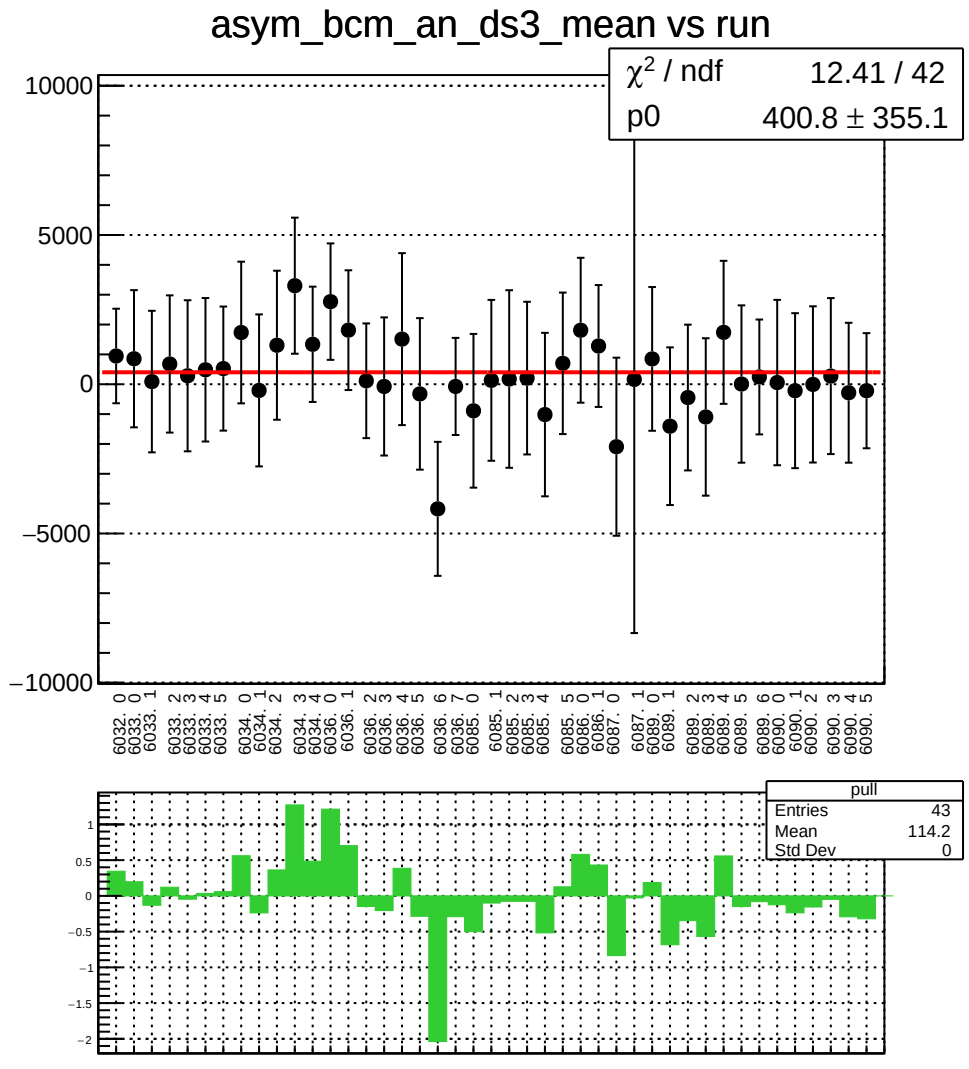

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 29.78 / 42
p0 −87.82 ± 38.59
50
0
−50
−100
−150
−200
−250
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 237.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001099
Std Dev 0.8323
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

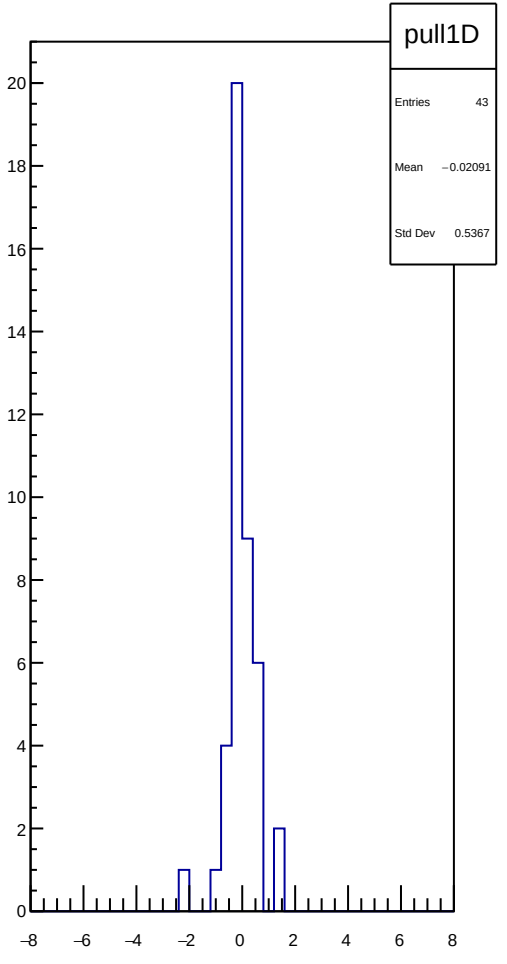

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 7.242e+04 / 38
p0 2.306e+04 ± 27.29
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6087. 0
6087. 1
6089. 2
6089. 3
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

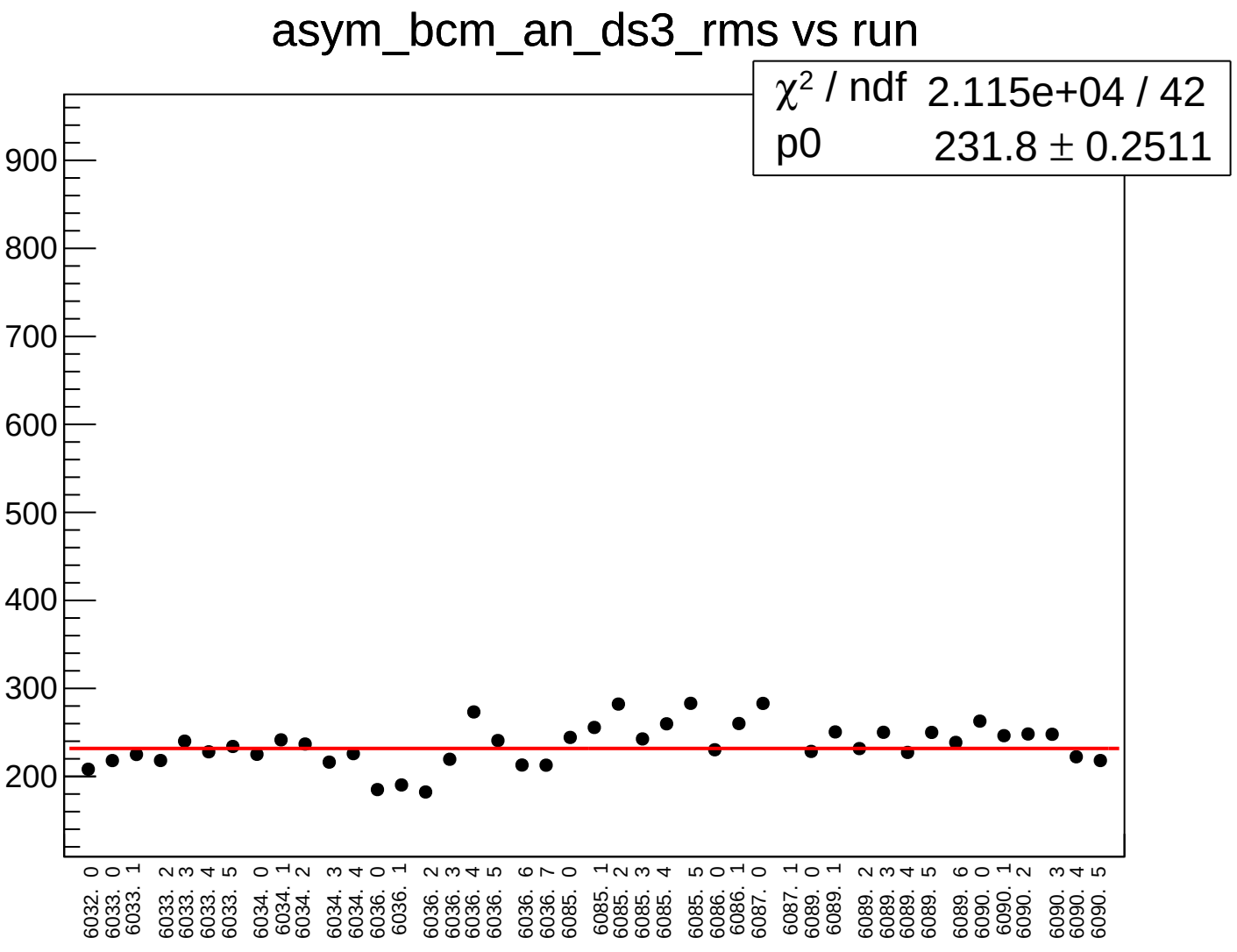

asym_bcm_an_ds_mean vs run
χ² / ndf 12.6 / 42
p0 419.5 ± 353.7
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 121.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

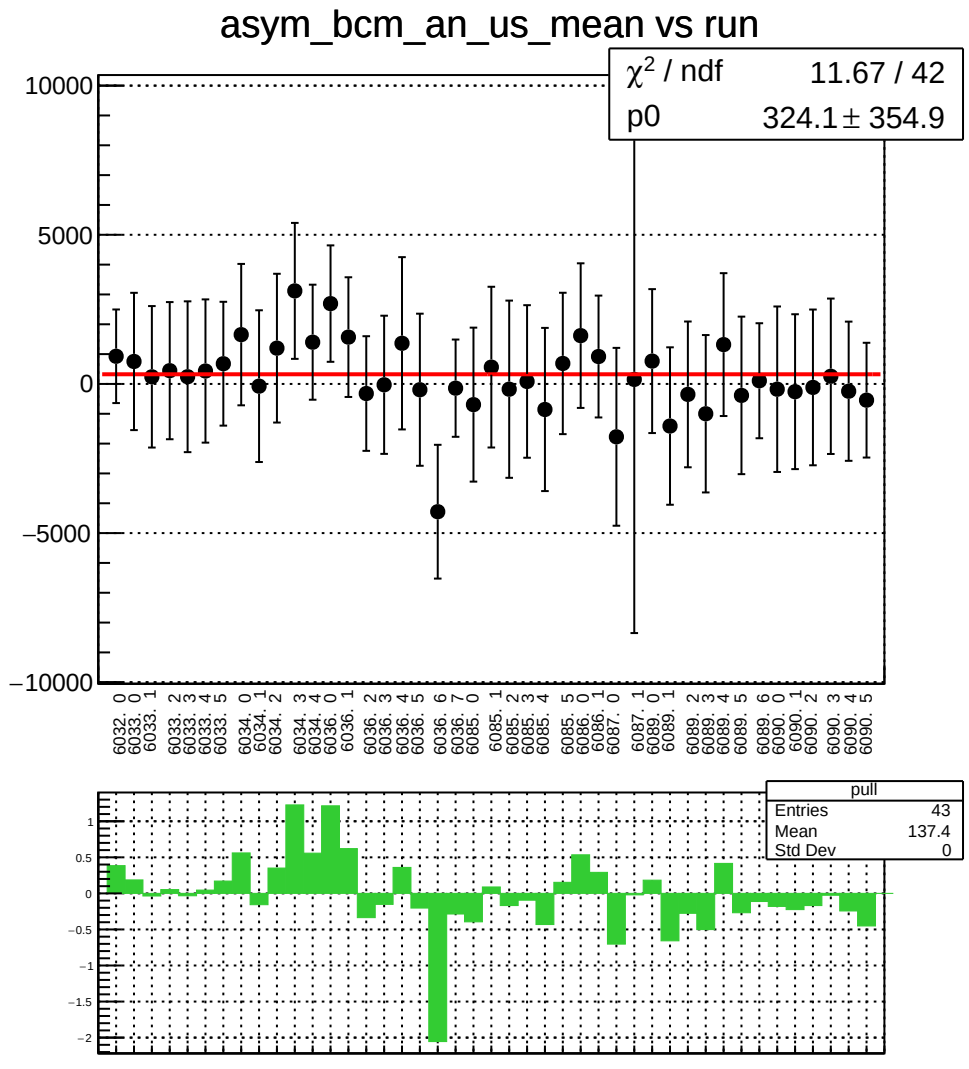

pull1D
Entries 43
Mean −0.02118
Std Dev 0.5409
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

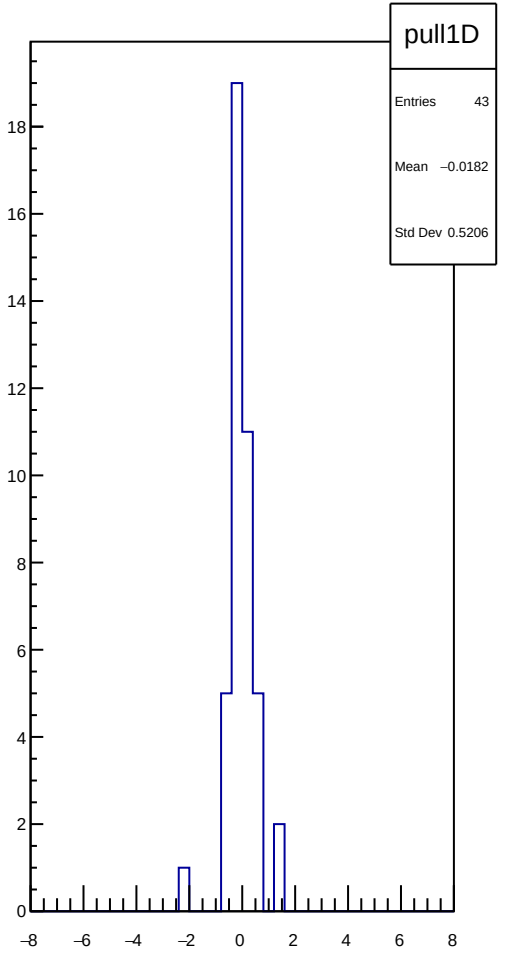

asym_bcm_an_ds_rms vs run
χ² / ndf 2.124e+04 / 42
p0 230.8 ± 0.2501
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

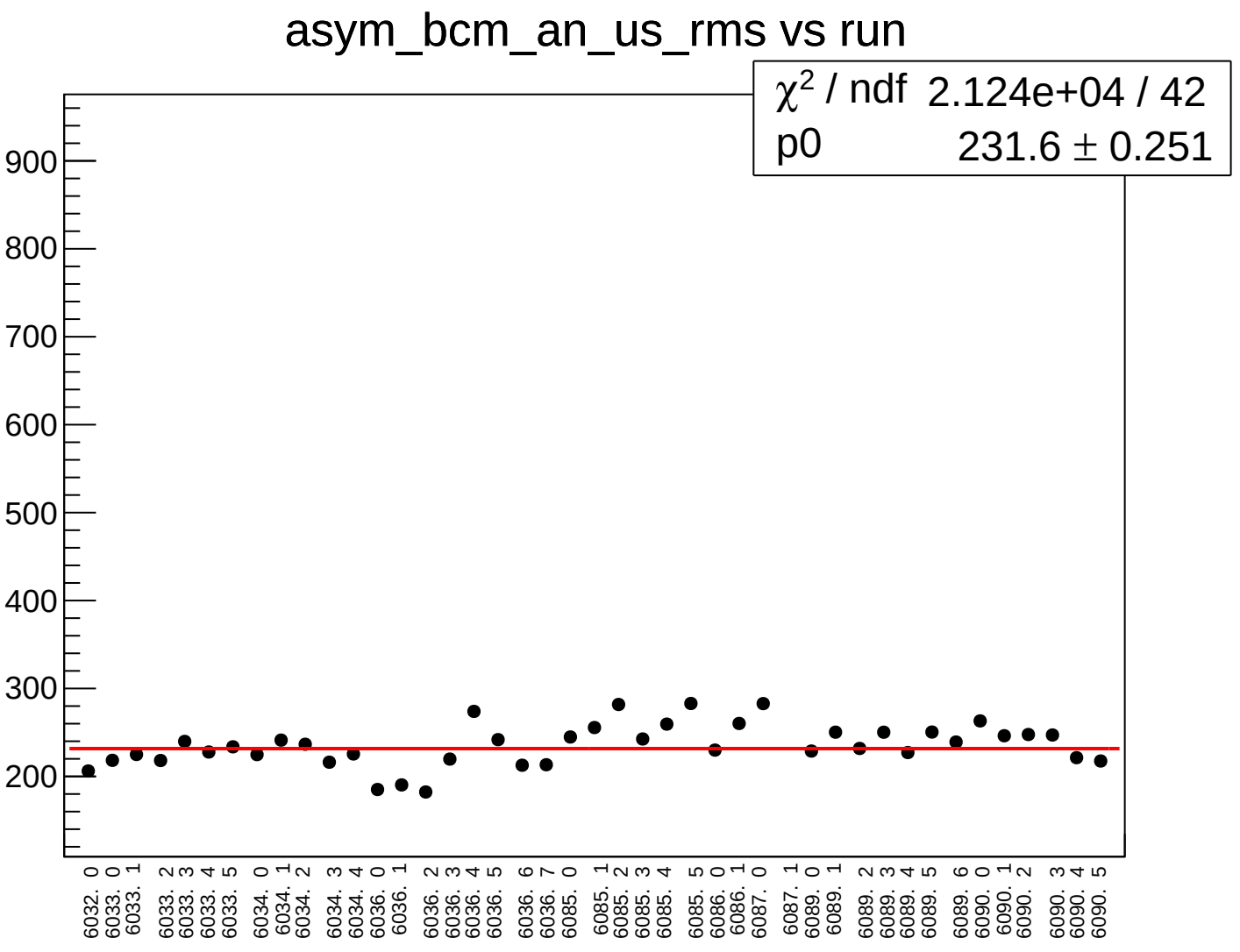

asym_bcm_an_ds3_mean vs run
χ² / ndf 12.41 / 42
p0 400.8 ± 355.1
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 114.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

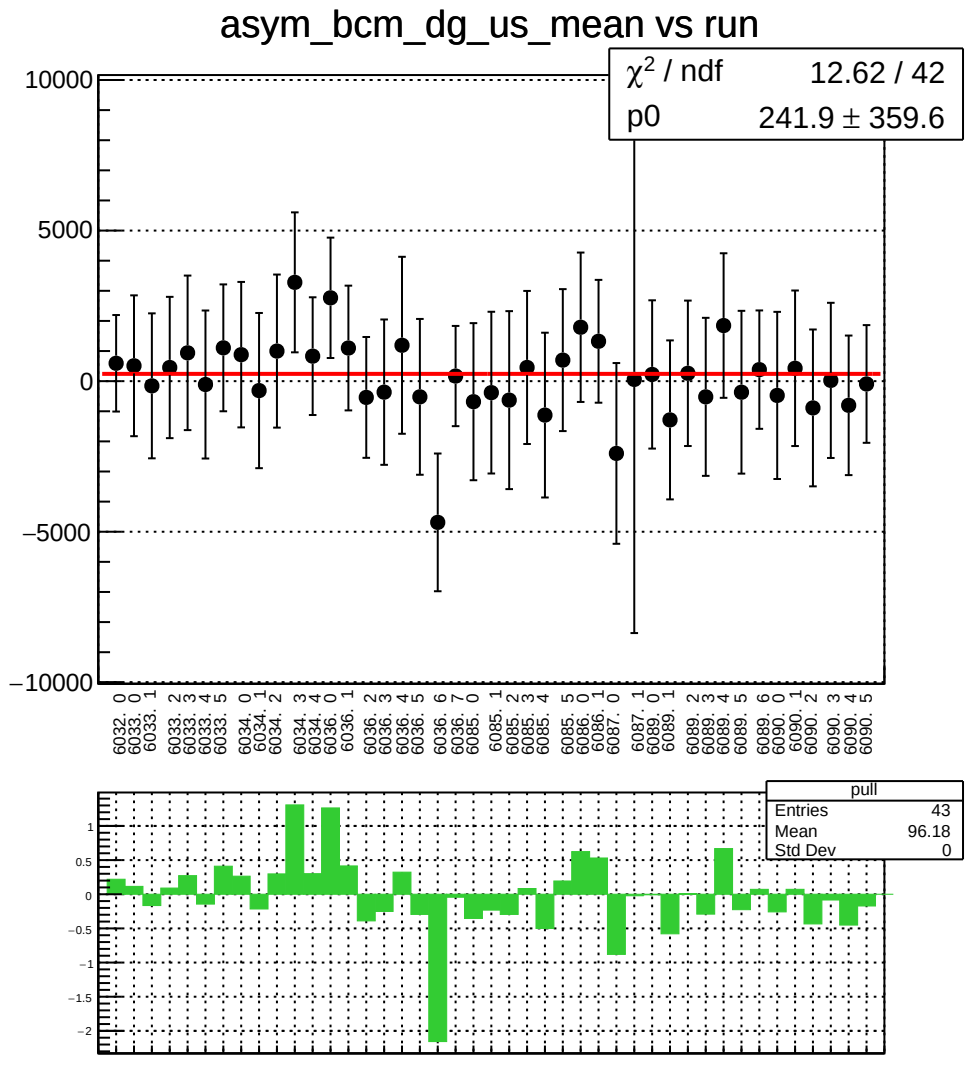

pull1D
Entries 43
Mean −0.02091
Std Dev 0.5367
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

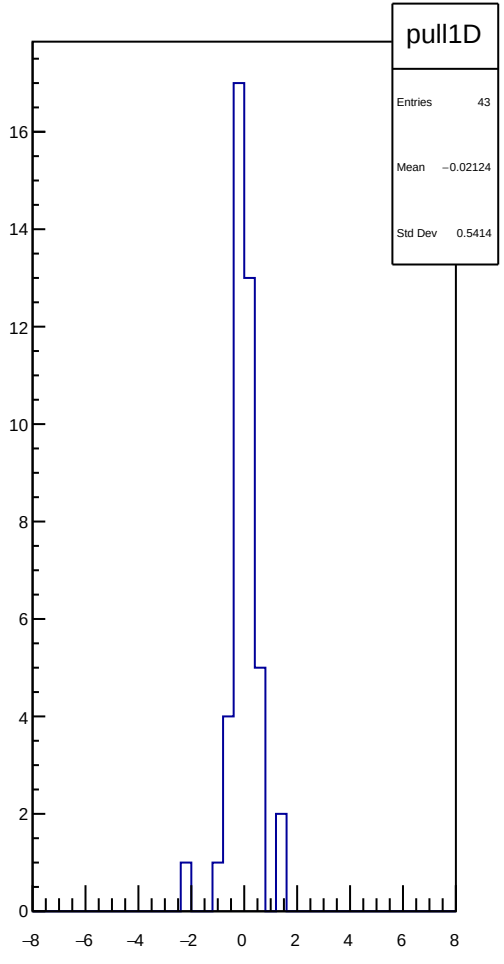

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.115e+04 / 42
p0 231.8 ± 0.2511
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

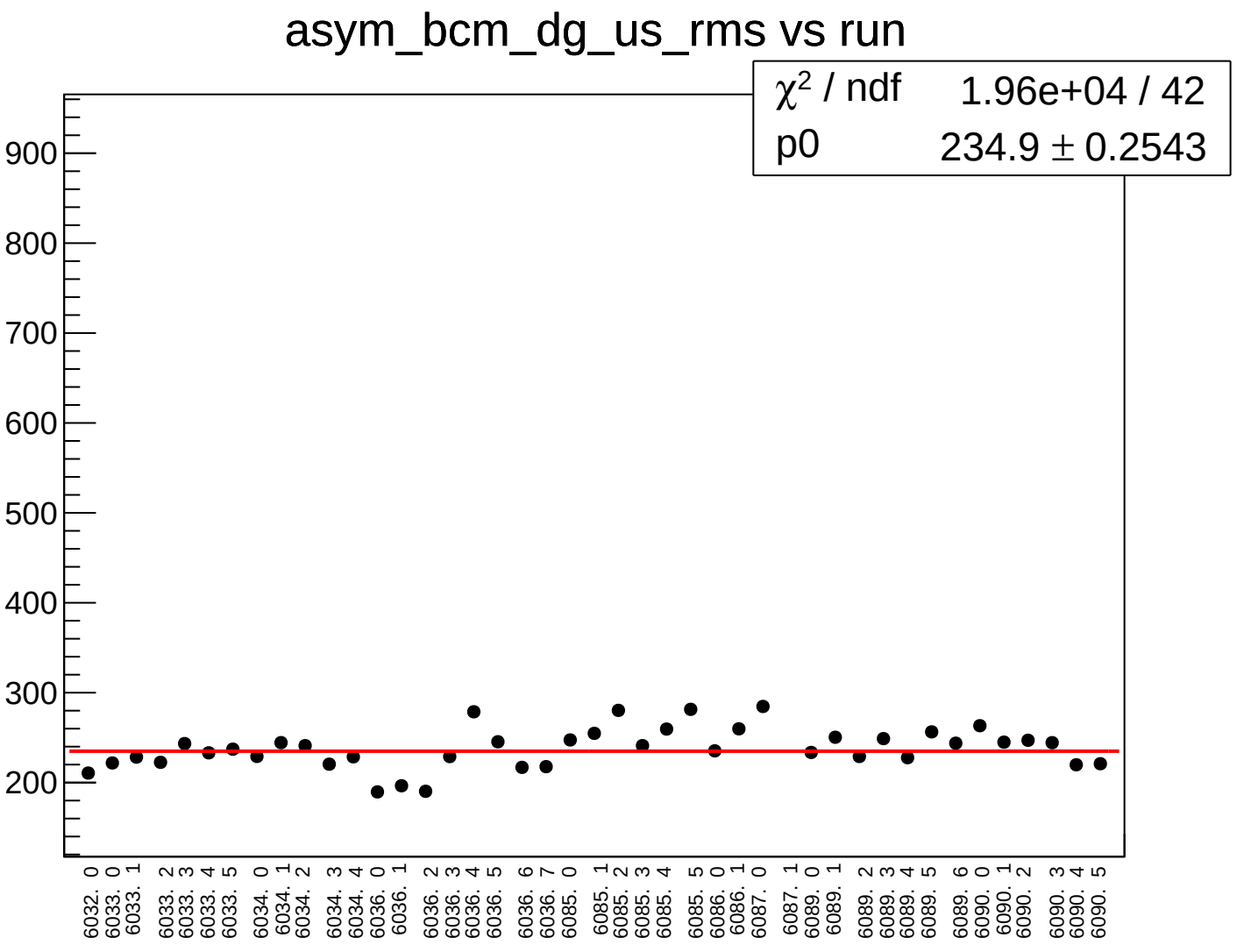

asym_bcm_an_us_mean vs run
χ² / ndf 11.67 / 42
p0 324.1 ± 354.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 137.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

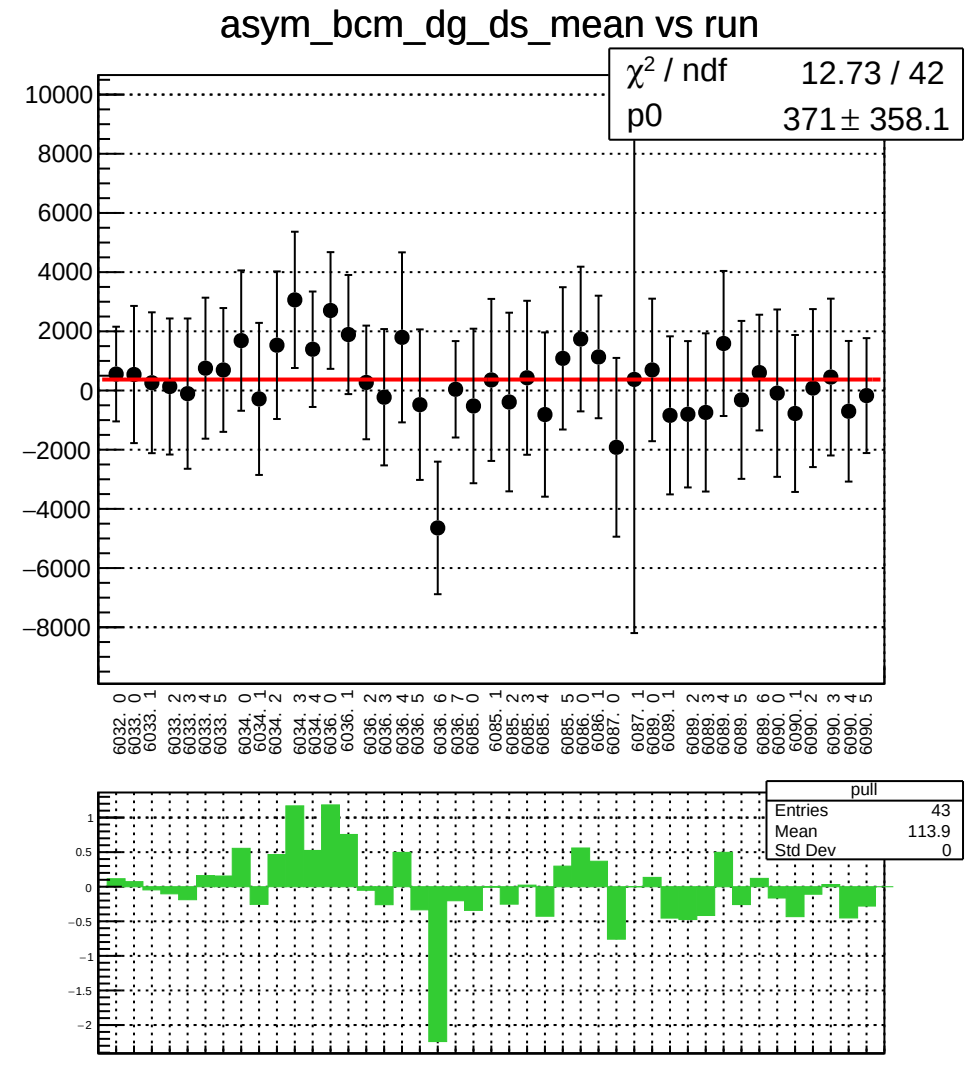

pull1D
Entries 43
Mean −0.0182
Std Dev 0.5206
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

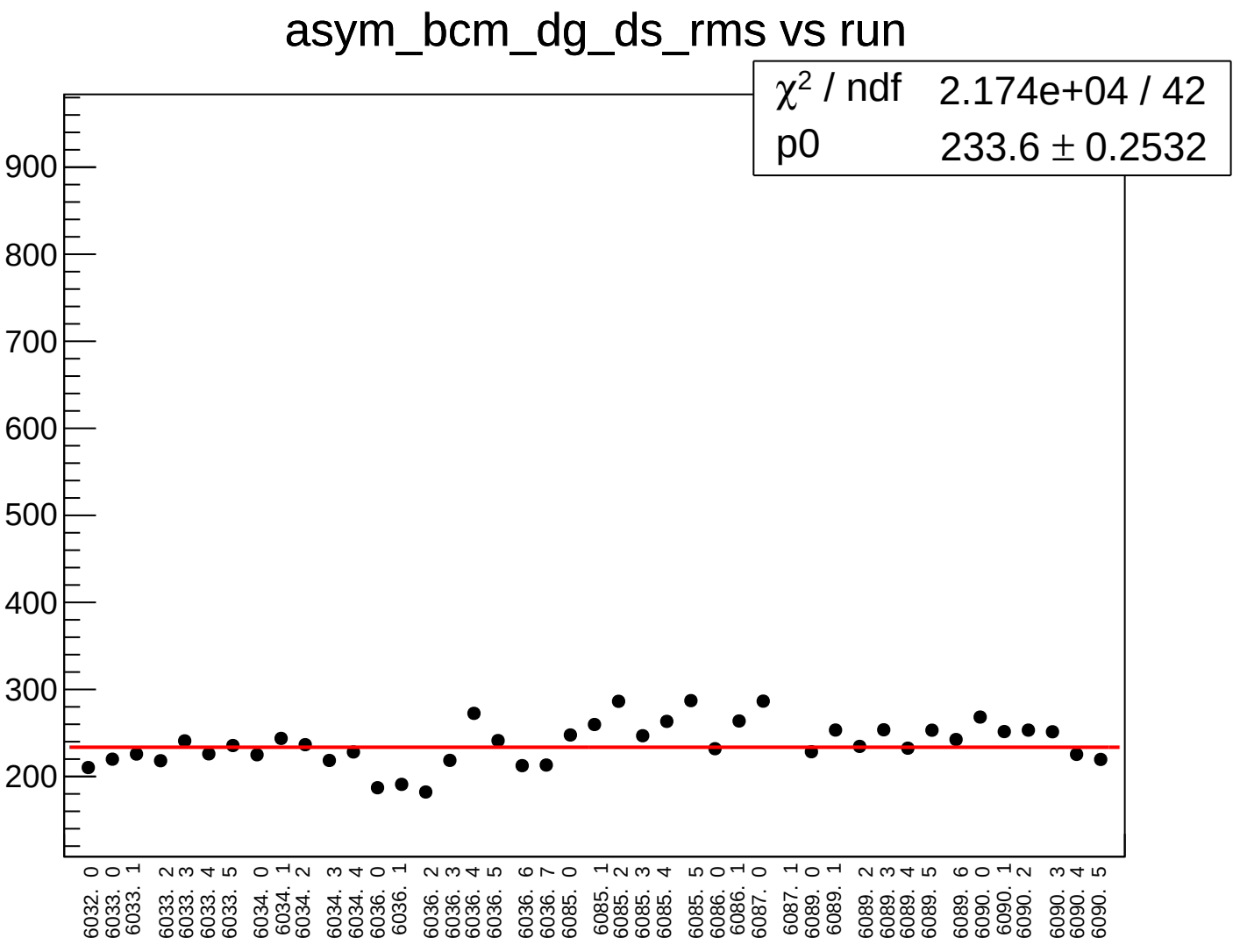

asym_bcm_an_us_rms vs run
χ² / ndf 2.124e+04 / 42
p0 231.6 ± 0.251
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

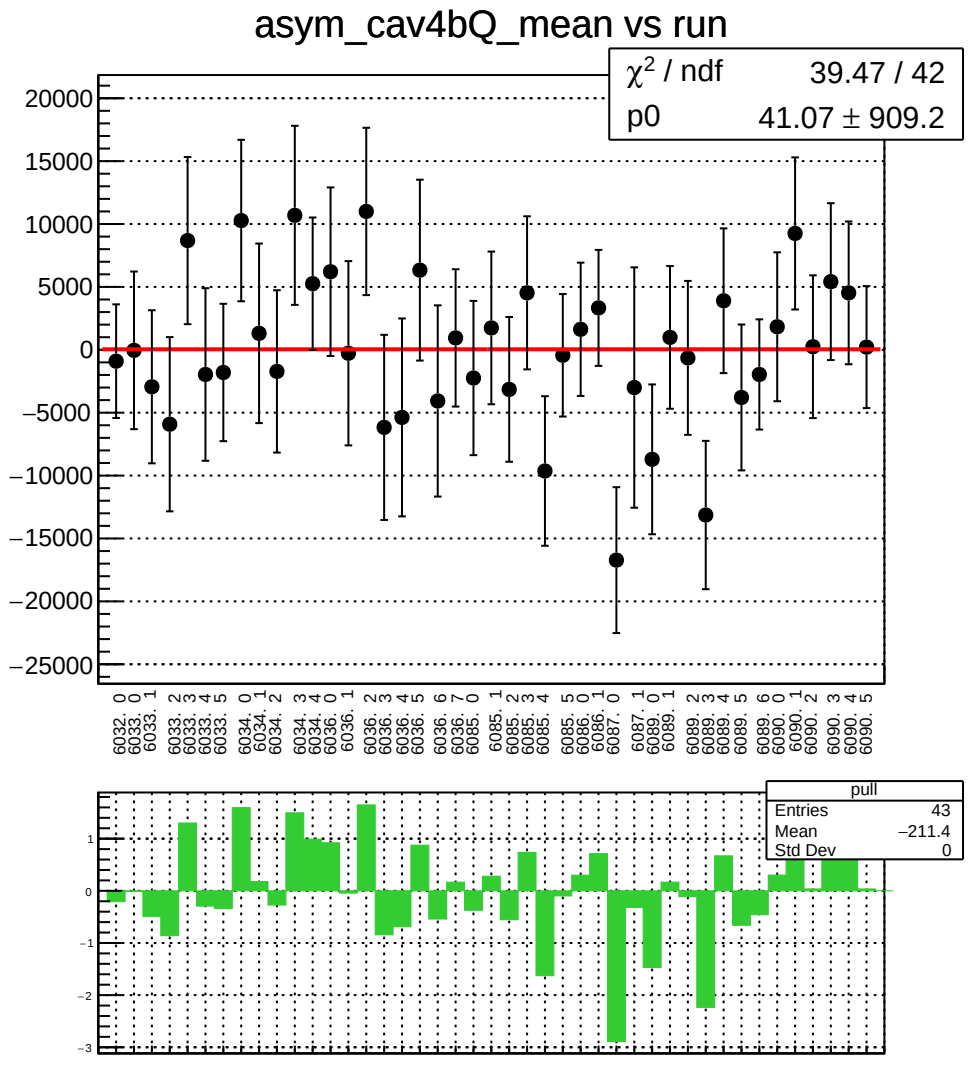

asym_bcm_dg_us_mean vs run
χ² / ndf 12.62 / 42
p0 241.9 ± 359.6
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 96.18
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

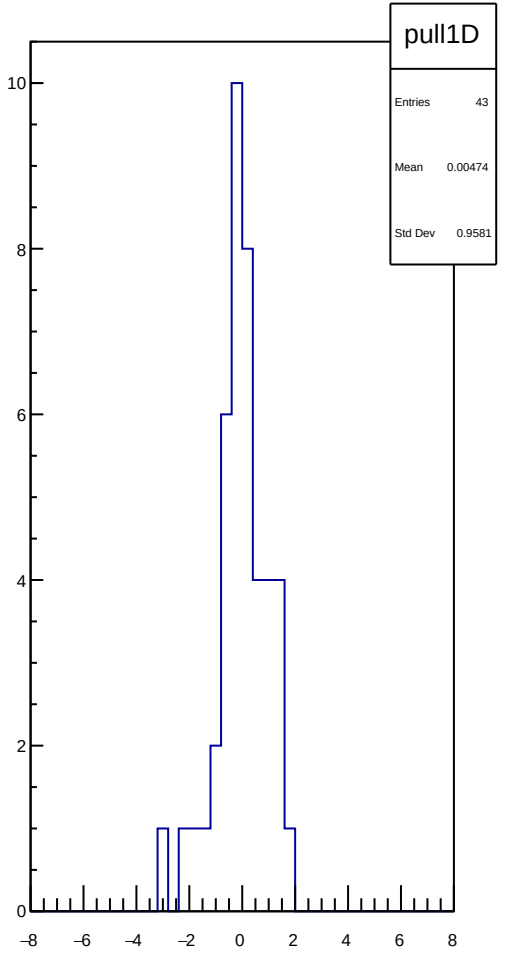

pull1D
Entries 43
Mean −0.02124
Std Dev 0.5414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

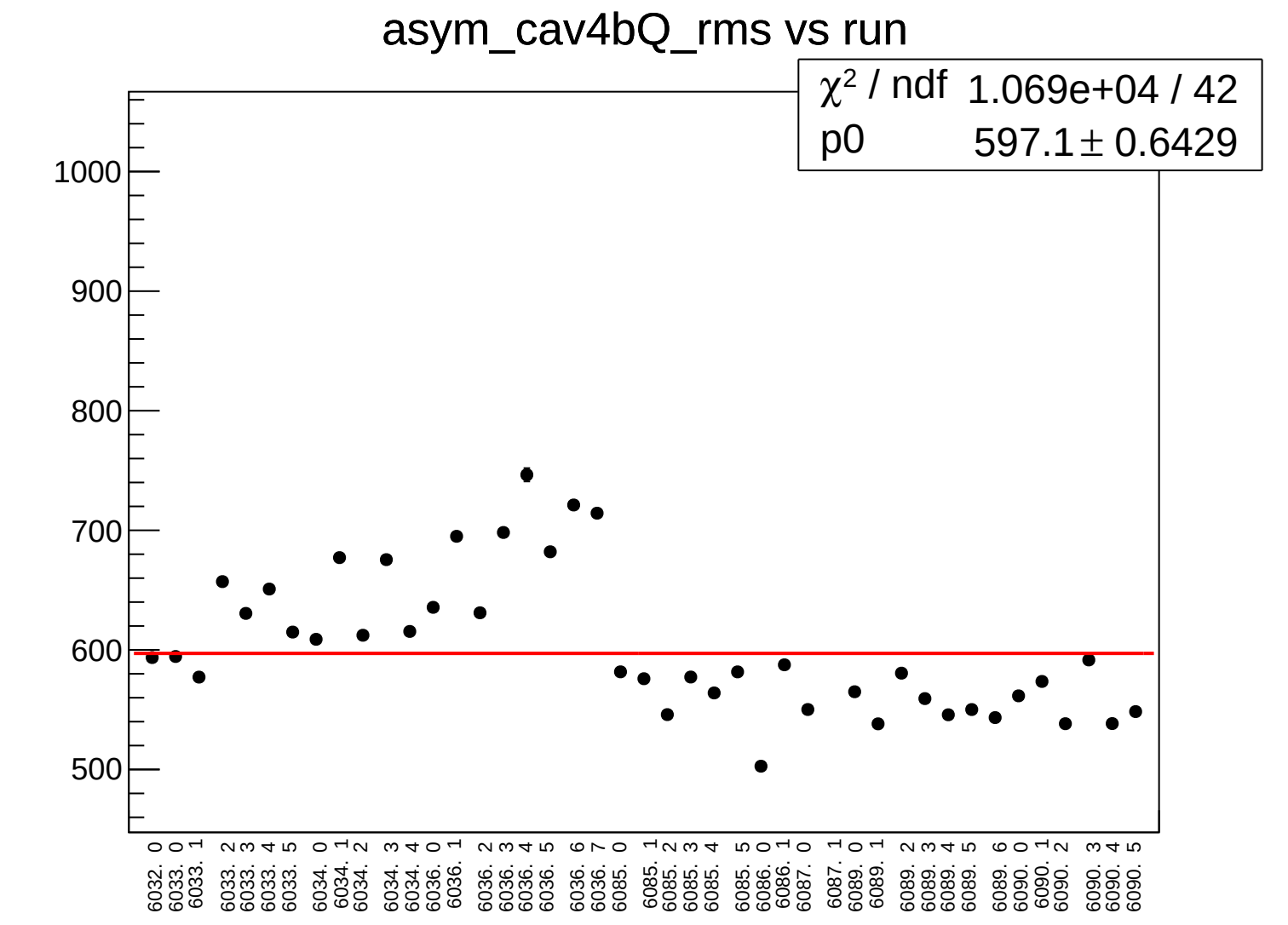

asym_bcm_dg_us_rms vs run
χ² / ndf 1.96e+04 / 42
p0 234.9 ± 0.2543
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

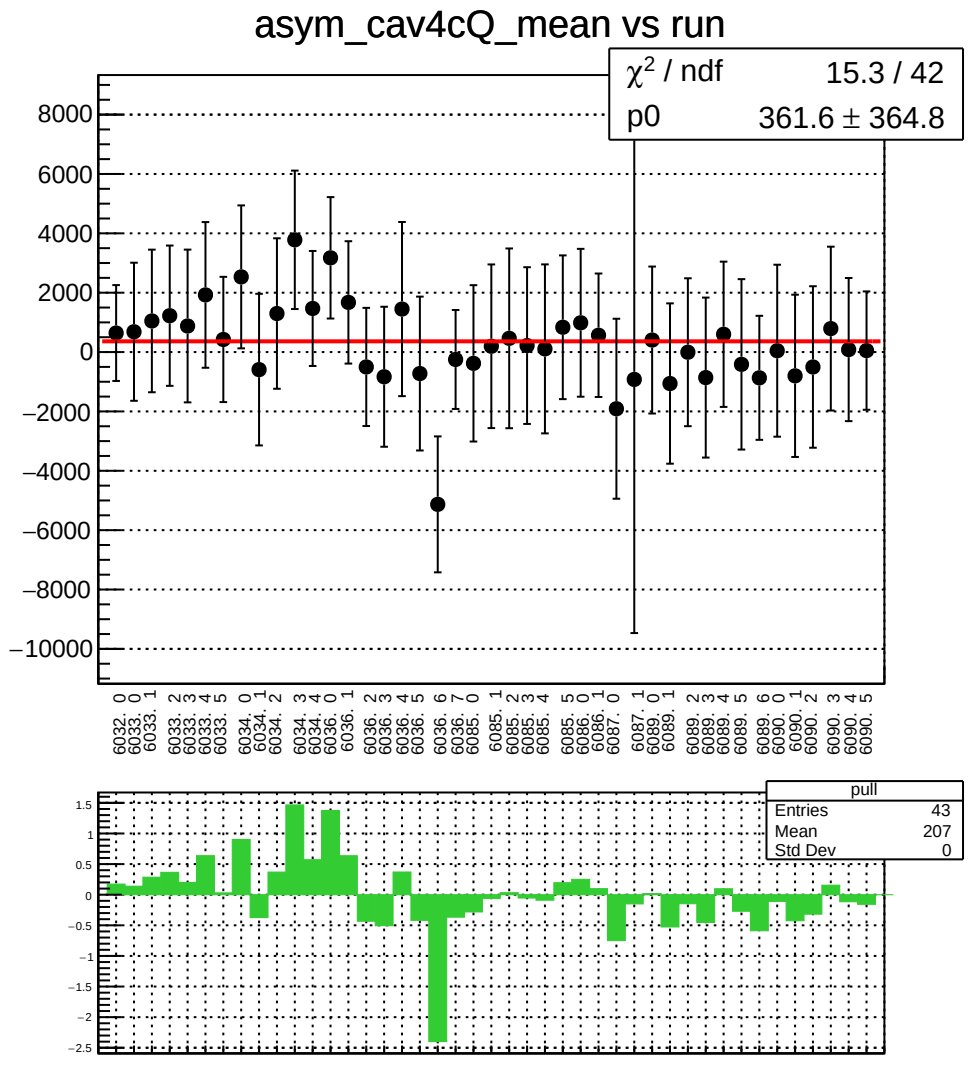

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.73 / 42
p0 371 ± 358.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 113.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0189
Std Dev 0.5438
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

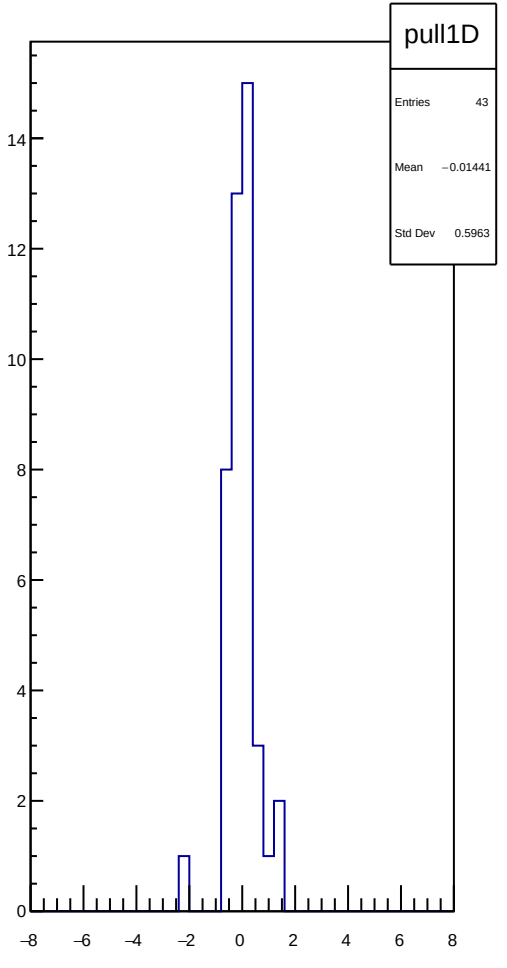

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.174e+04 / 42
p0 233.6 ± 0.2532
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

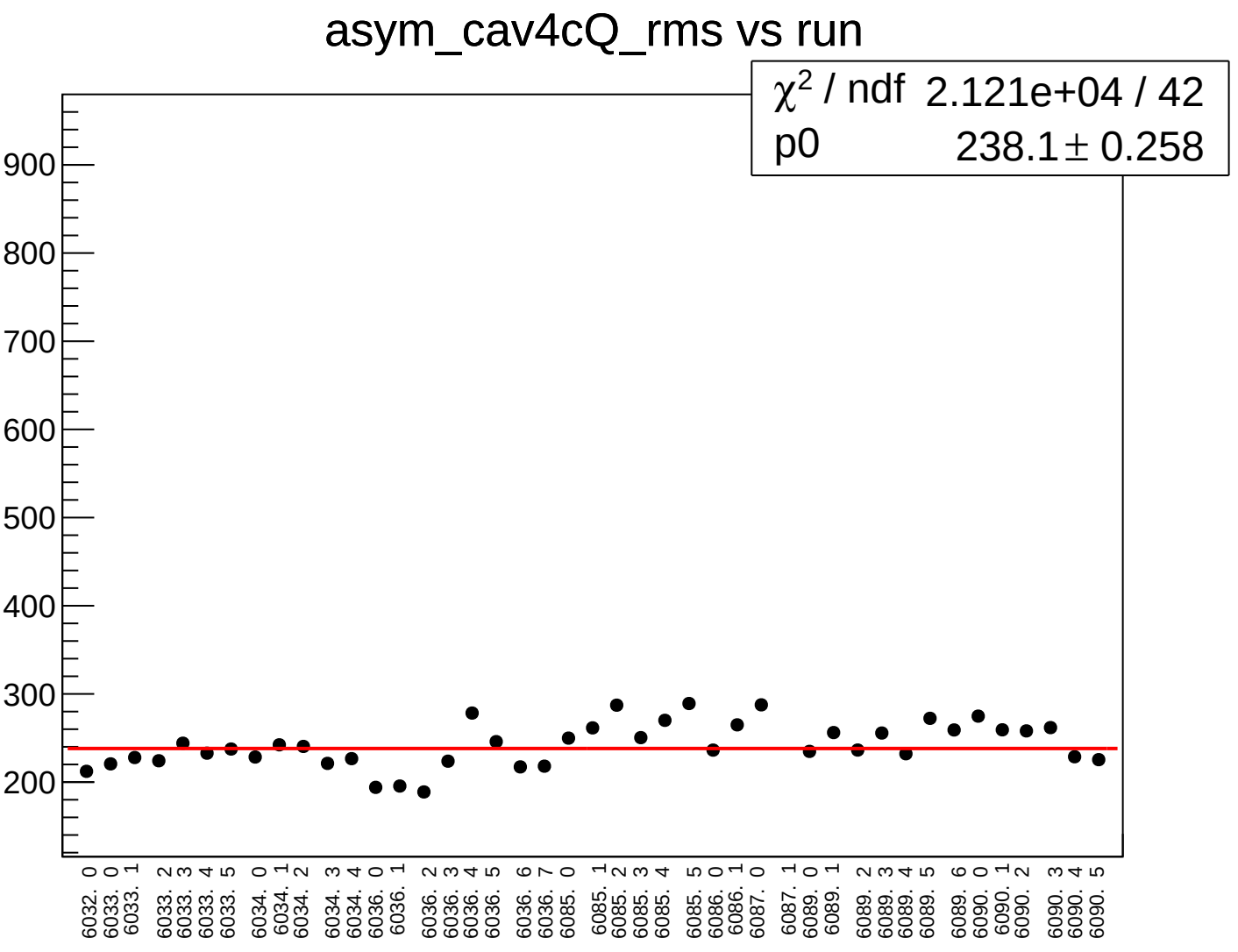

asym_cav4bQ_mean vs run
χ² / ndf 39.47 / 42
p0 41.07 ± 909.2
pull
Entries 43
Mean −211.4
Std Dev 0

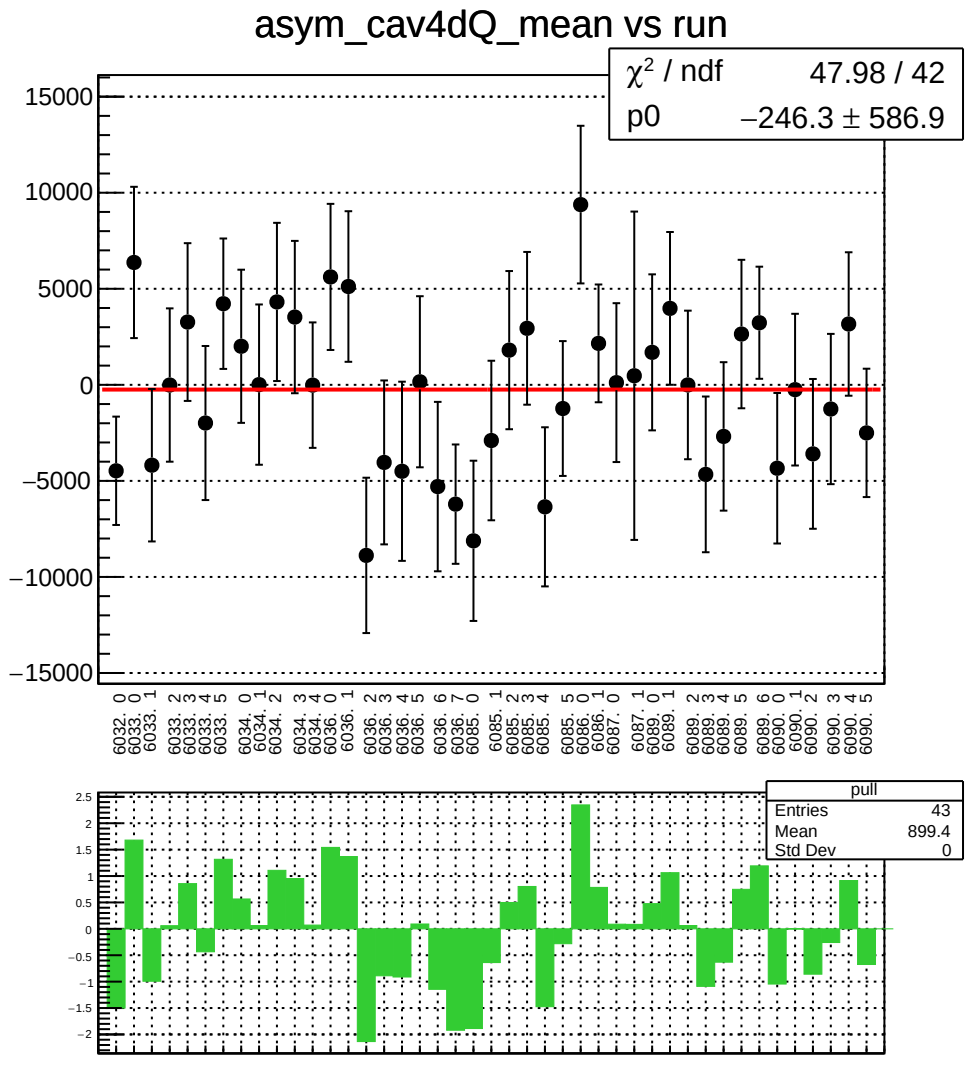

pull1D
Entries 43
Mean 0.00474
Std Dev 0.9581

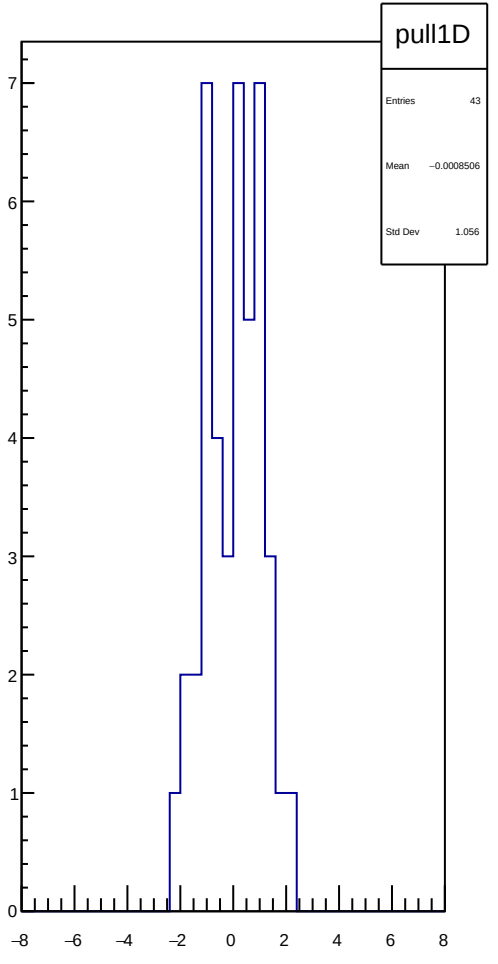

asym_cav4bQ_rms vs run
χ² / ndf 1.069e+04 / 42
p0 597.1 ± 0.6429
1000
900
800
700
600
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

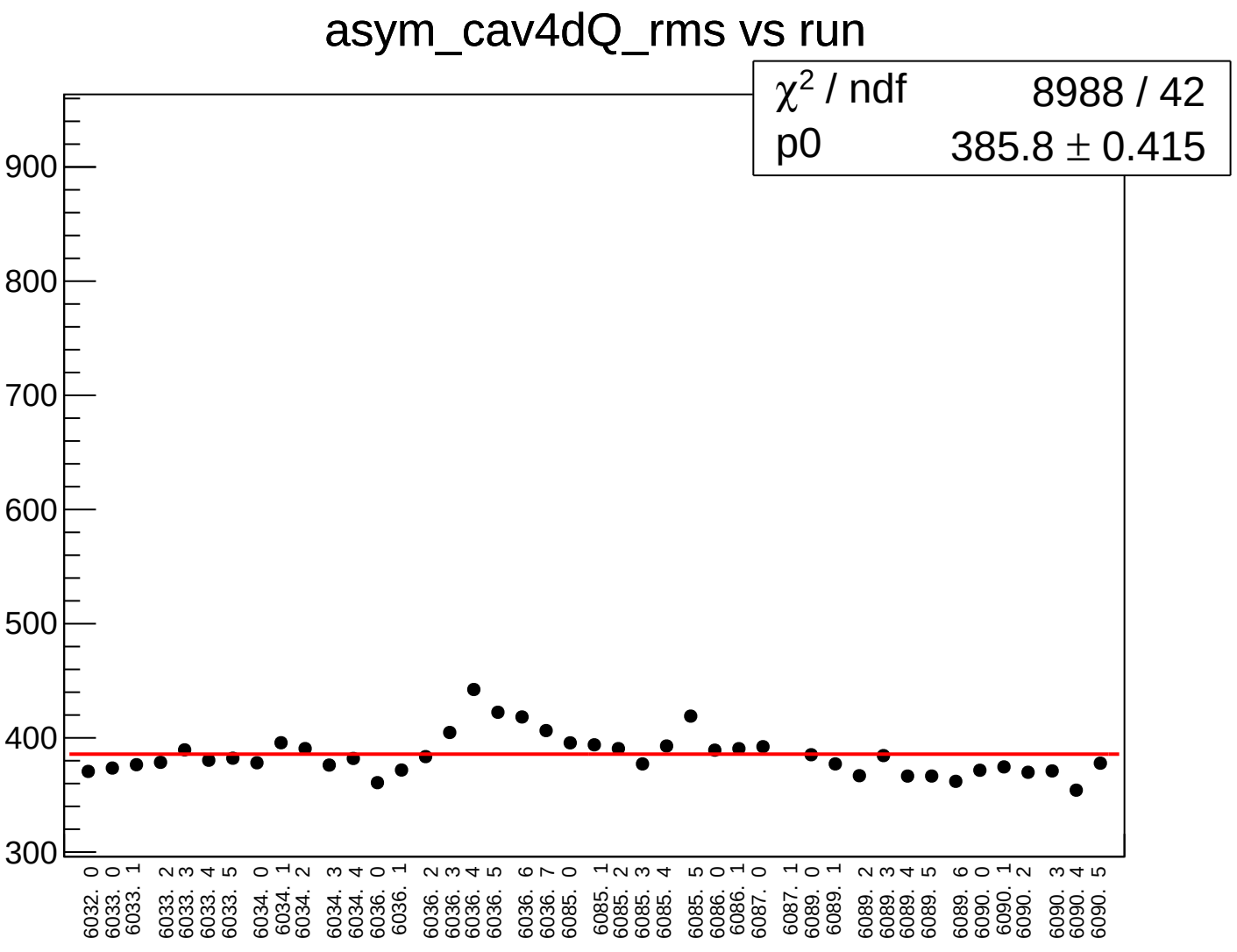

asym_cav4cQ_mean vs run
χ² / ndf 15.3 / 42
p0 361.6 ± 364.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 207
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

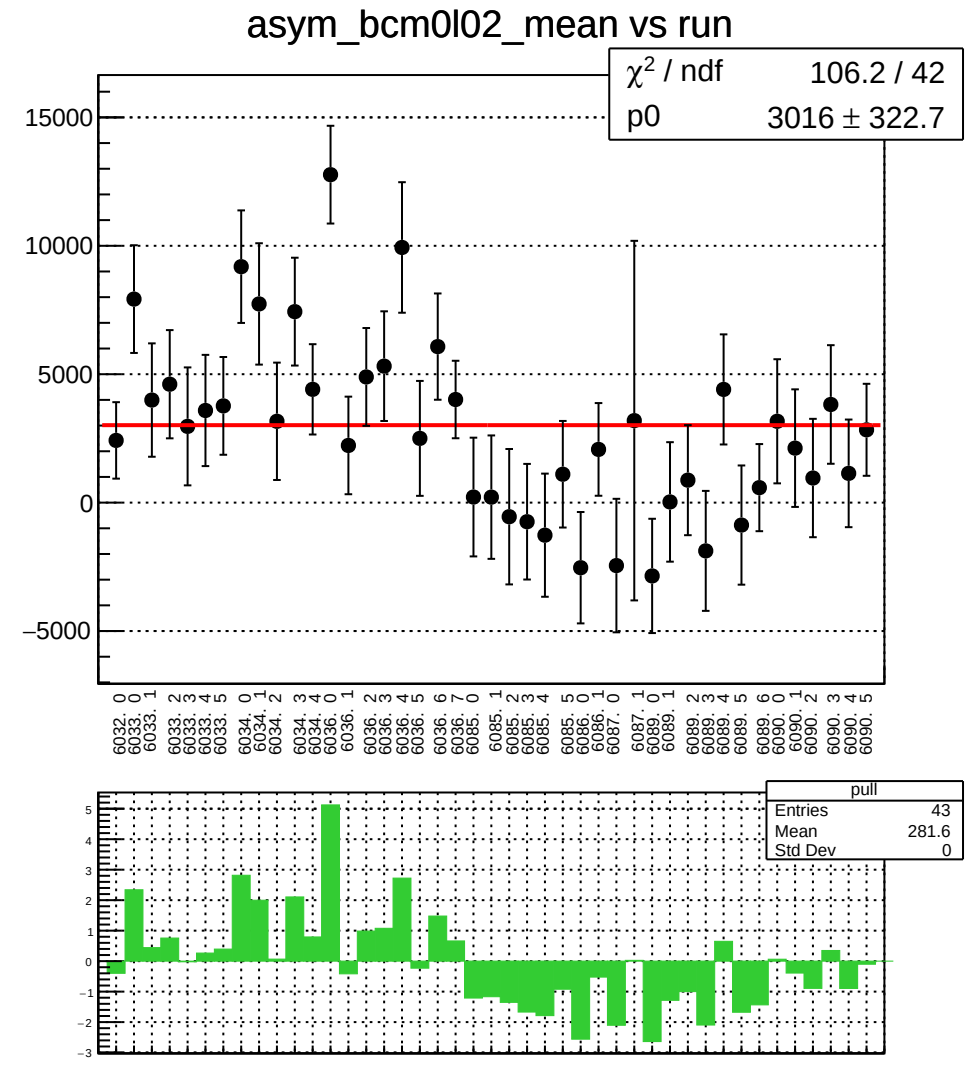

pull1D
Entries 43
Mean −0.01441
Std Dev 0.5963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

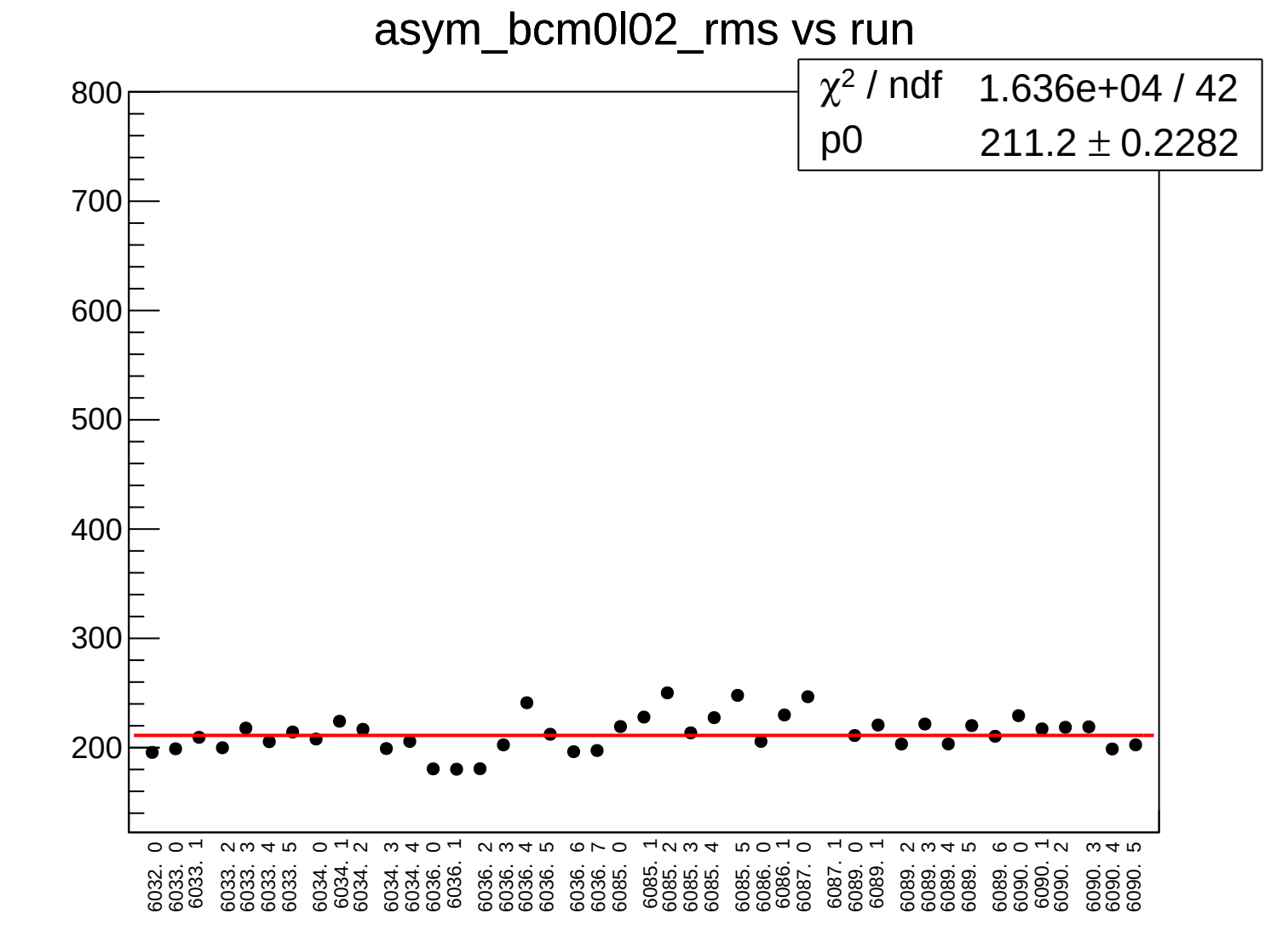

asym_cav4cQ_rms vs run
χ² / ndf 2.121e+04 / 42
p0 238.1 ± 0.258
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

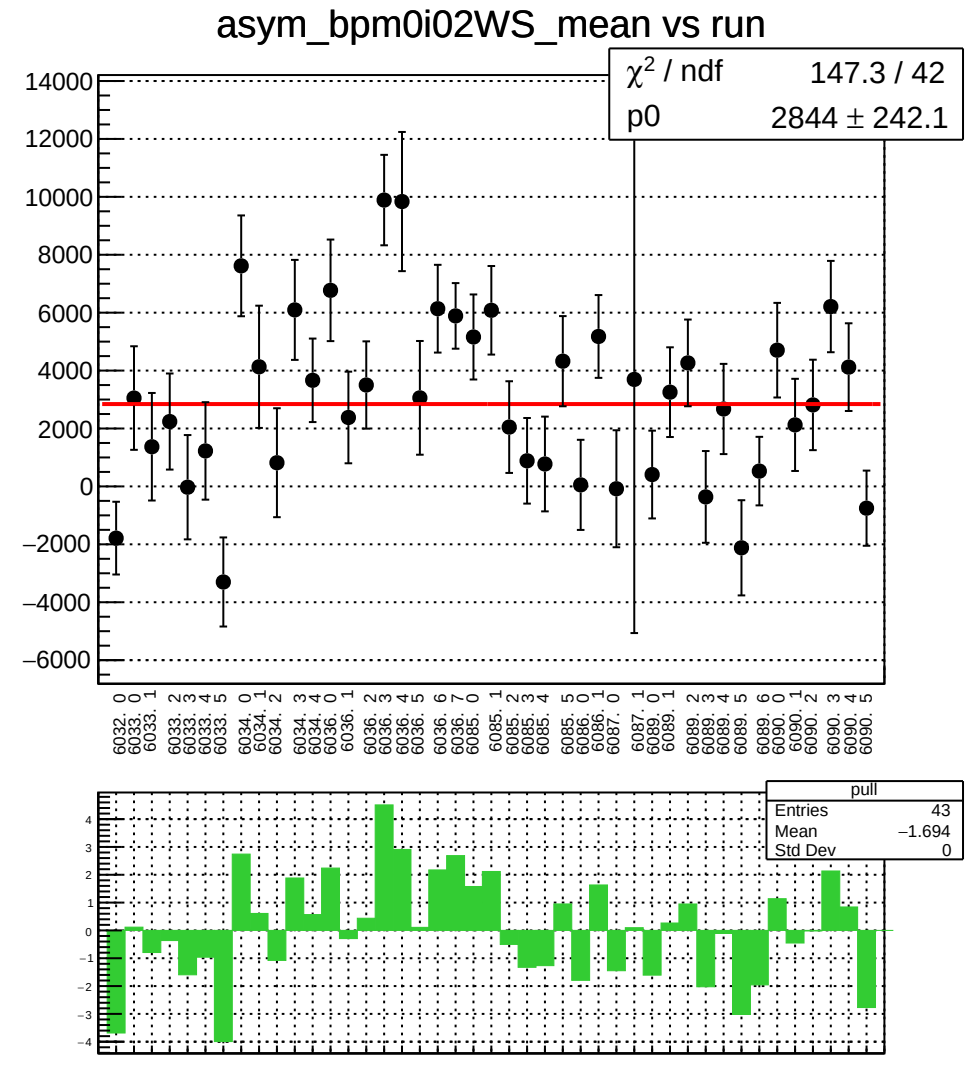

asym_cav4dQ_mean vs run
χ² / ndf 47.98 / 42
p0 −246.3 ± 586.9
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 899.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

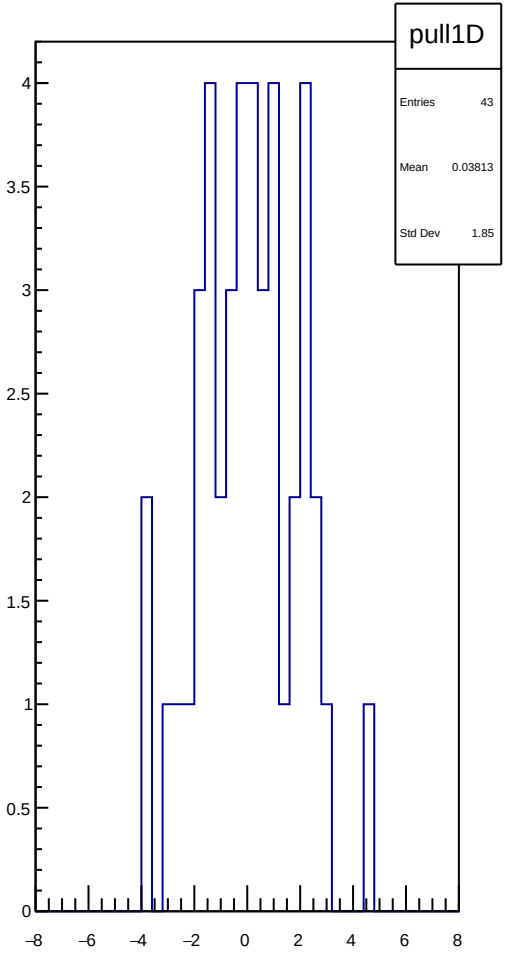

pull1D
Entries 43
Mean −0.0008506
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

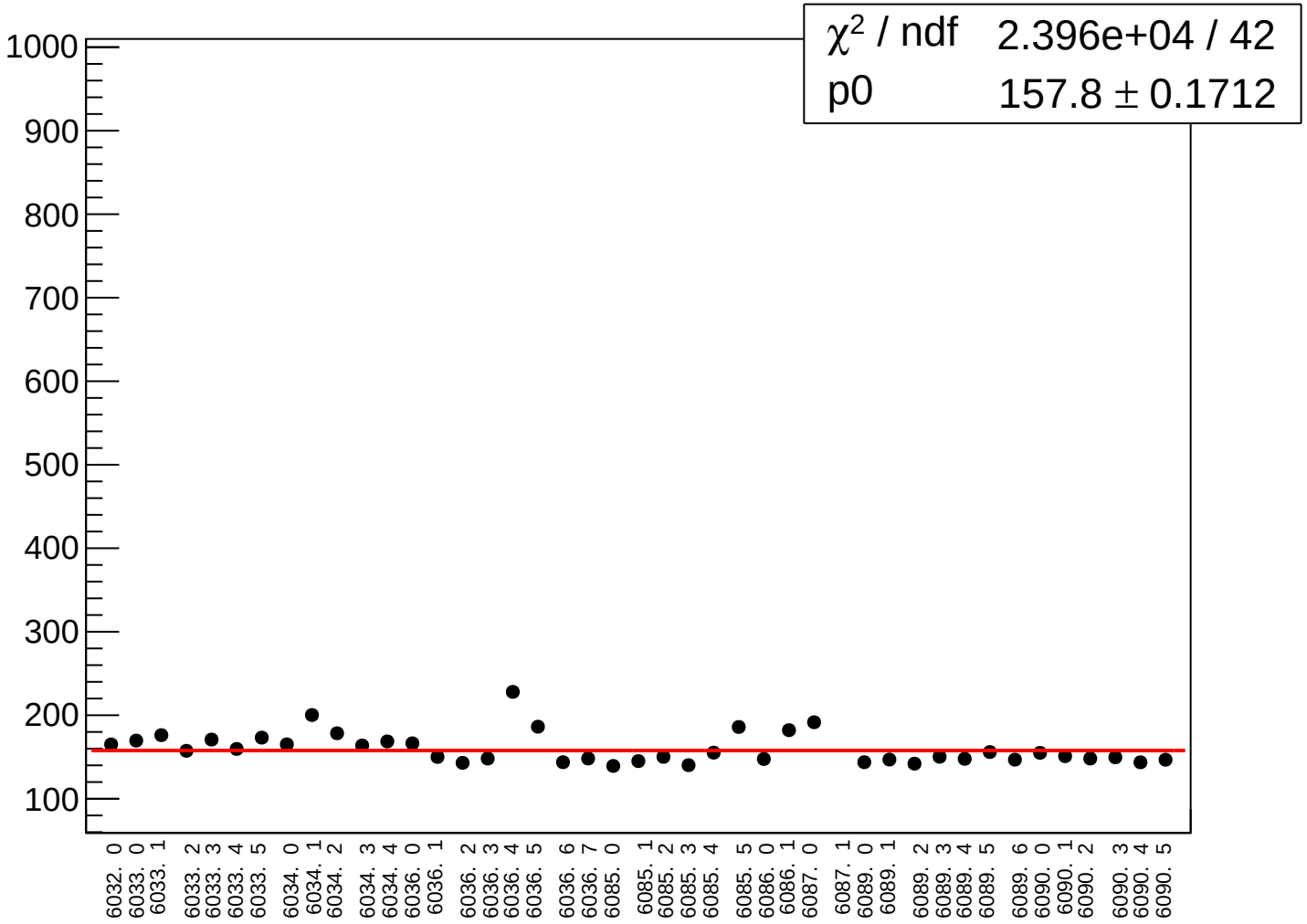

asym_cav4dQ_rms vs run
χ² / ndf 8988 / 42
p0 385.8 ± 0.415
900
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

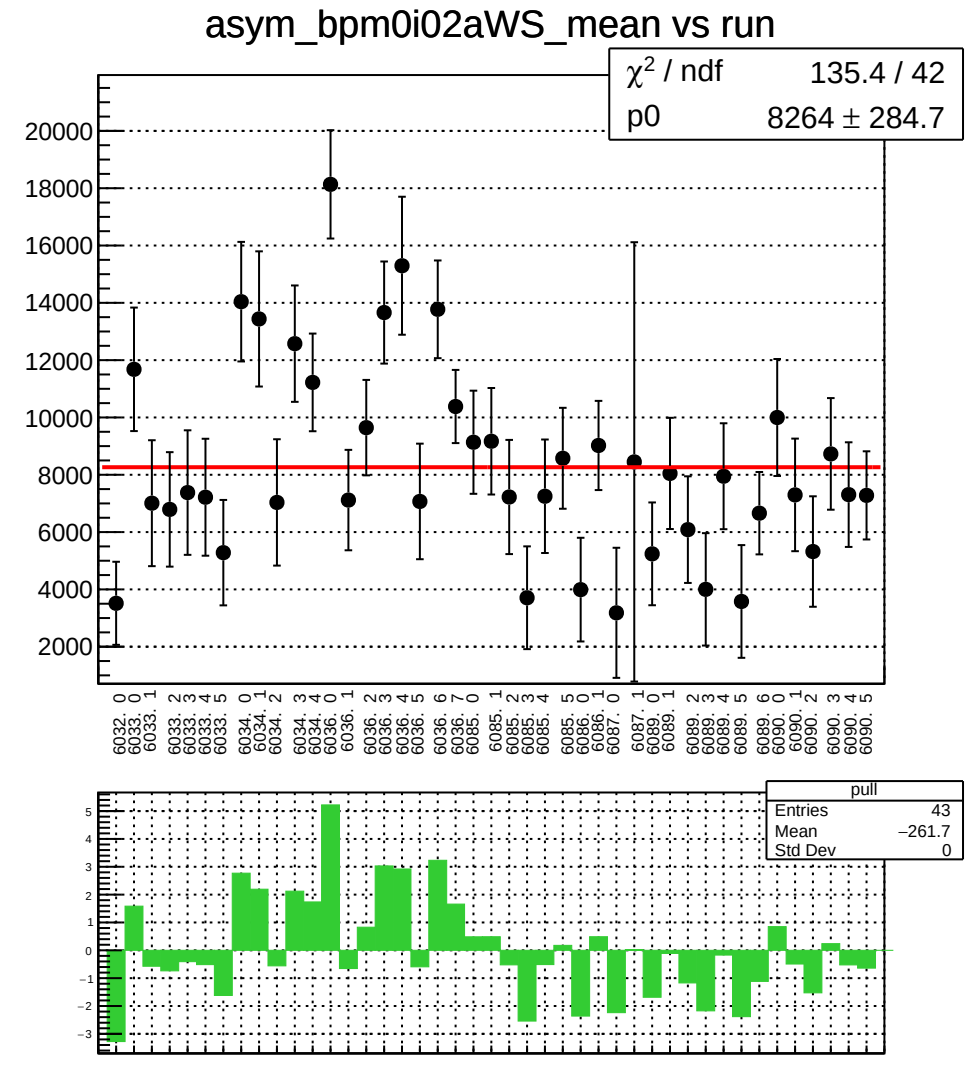

asym_bcm0l02_mean vs run
χ² / ndf 106.2 / 42
p0 3016 ± 322.7
15000
10000
5000
0
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 281.6
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03841
Std Dev 1.571
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

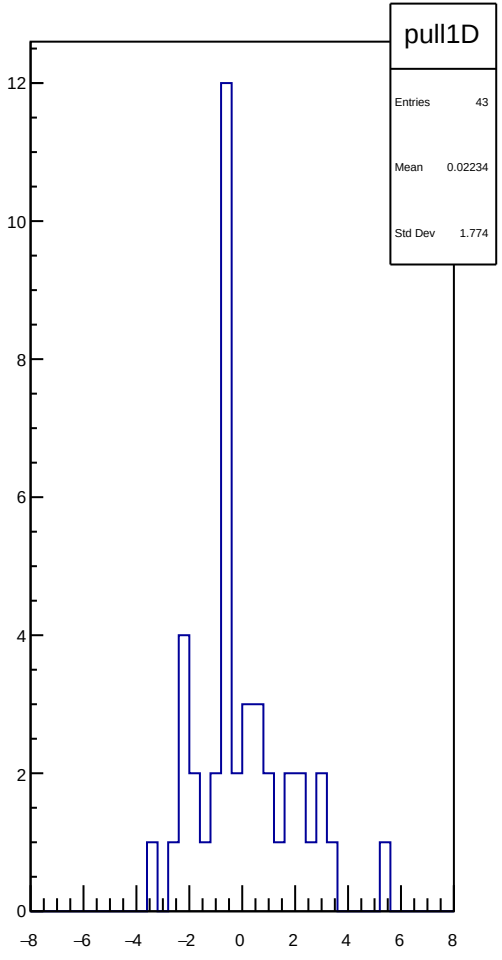

asym_bcm0l02_rms vs run
χ² / ndf 1.636e+04 / 42
p0 211.2 ± 0.2282
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

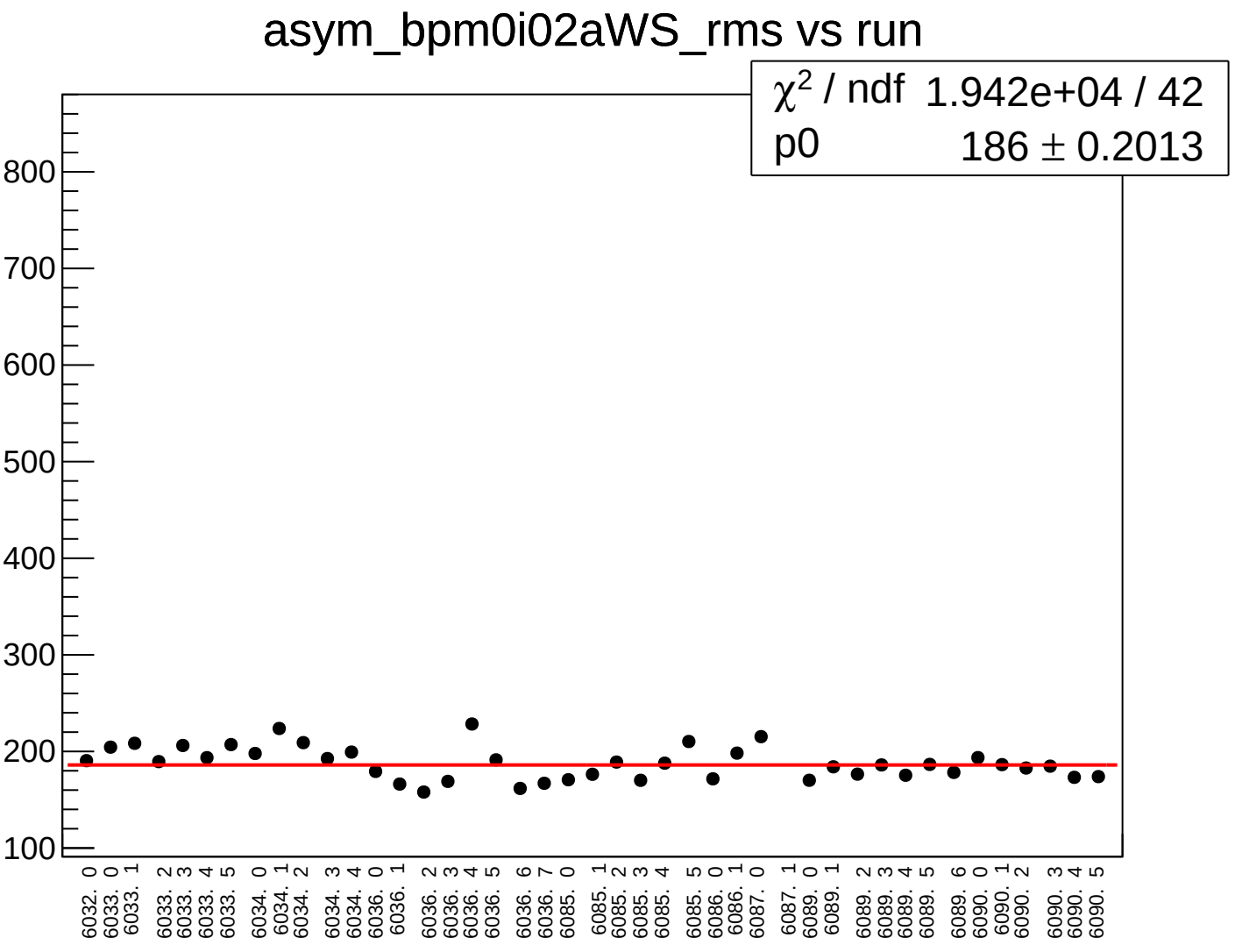

asym_bpm0i02WS_mean vs run
χ² / ndf 147.3 / 42
p0 2844 ± 242.1
pull
Entries 43
Mean −1.694
Std Dev 0

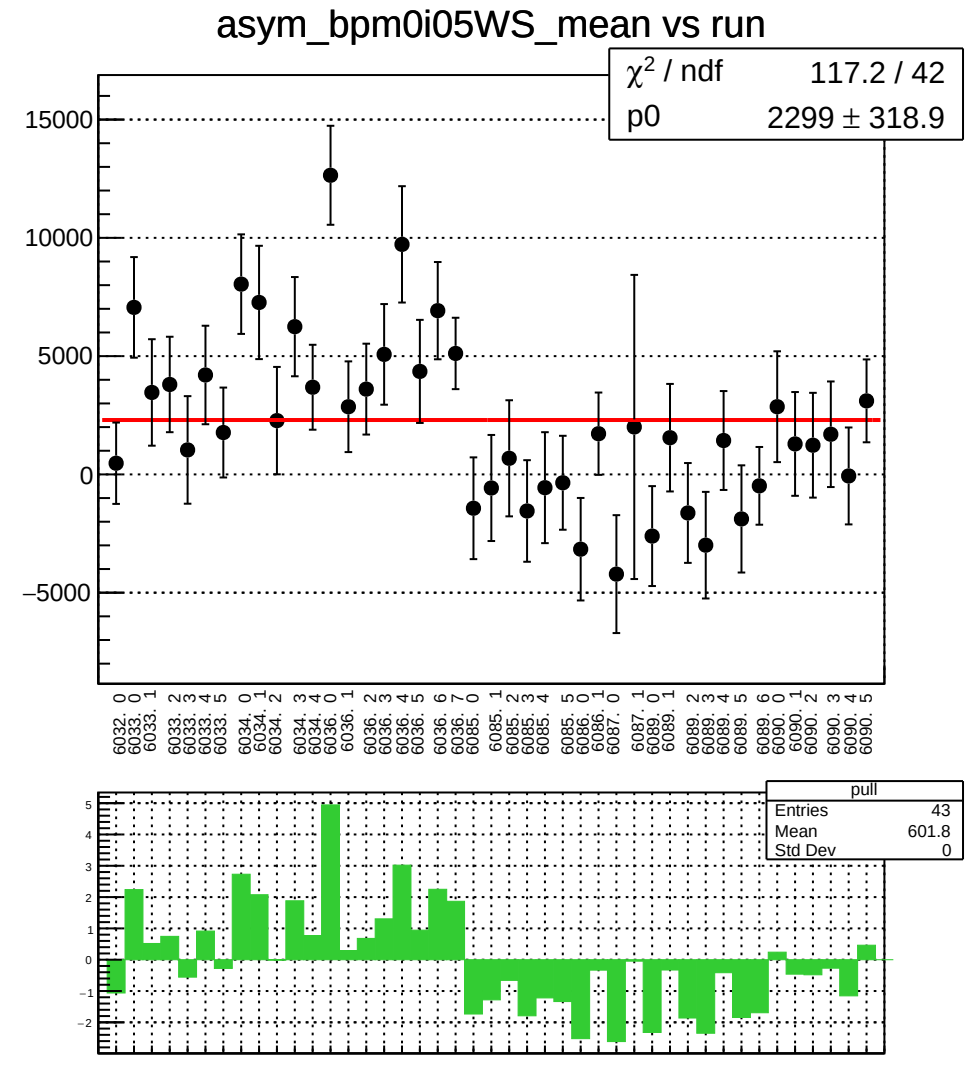

pull1D
Entries 43
Mean 0.03813
Std Dev 1.85

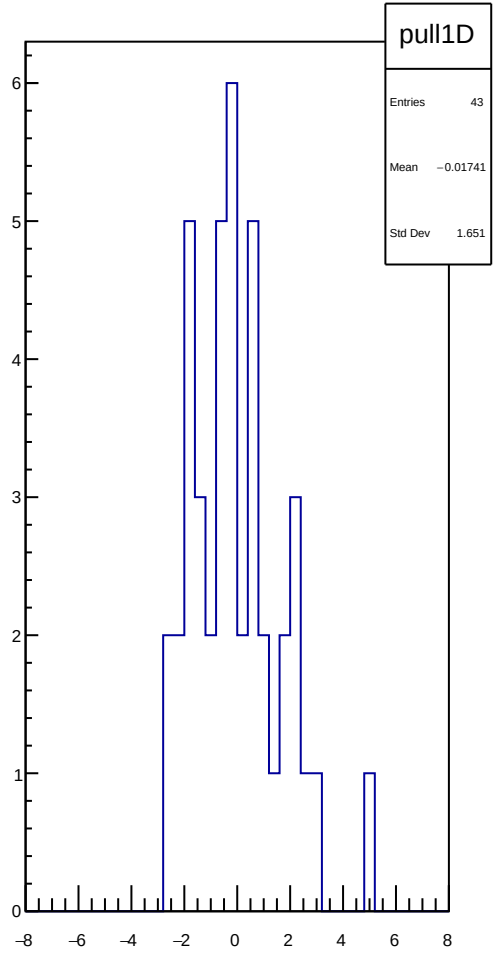

asym_bpm0i02WS_rms vs run
χ² / ndf 2.396e+04 / 42
p0 157.8 ± 0.1712
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

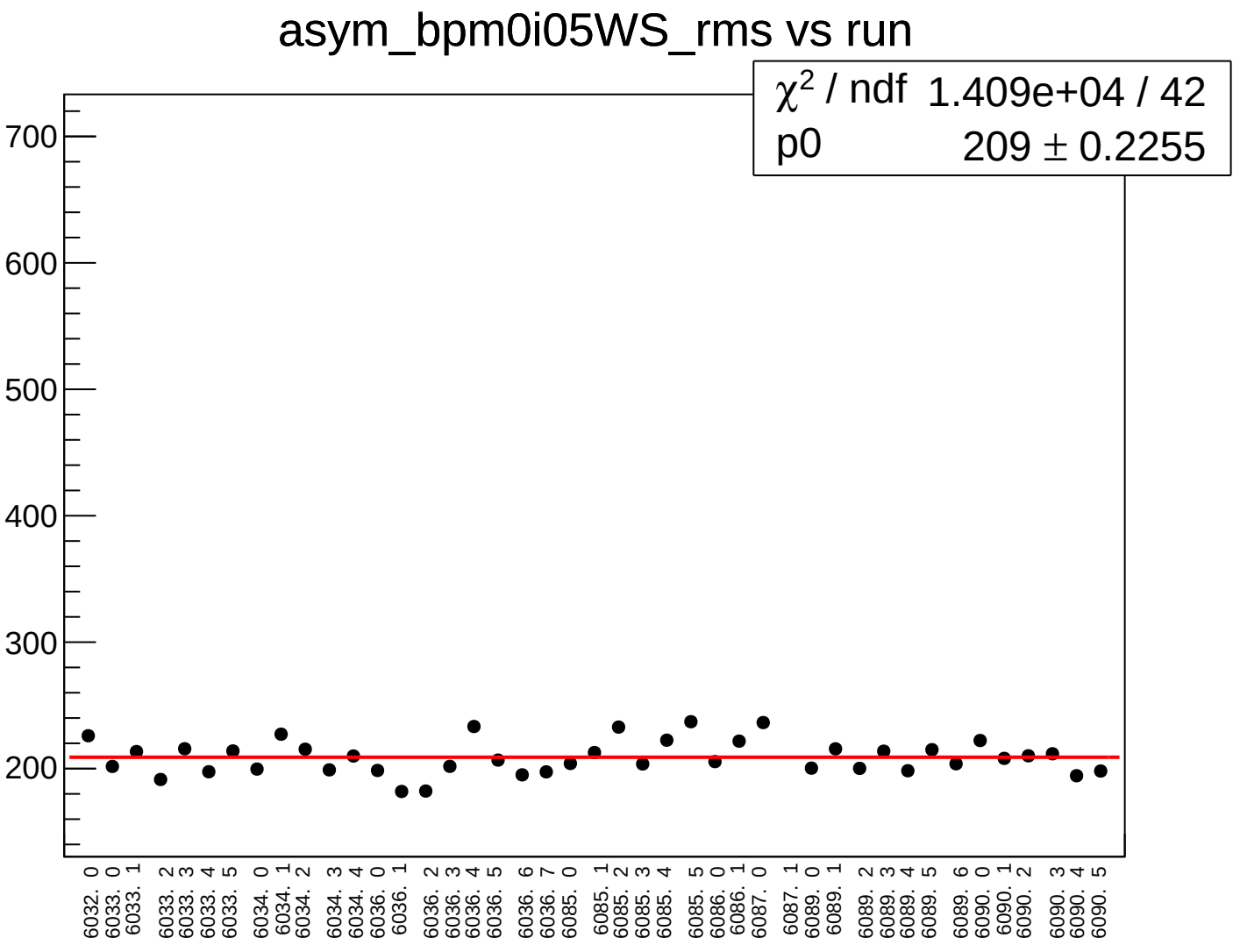

asym_bpm0i02aWS_mean vs run
χ² / ndf 135.4 / 42
p0 8264 ± 284.7
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −261.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

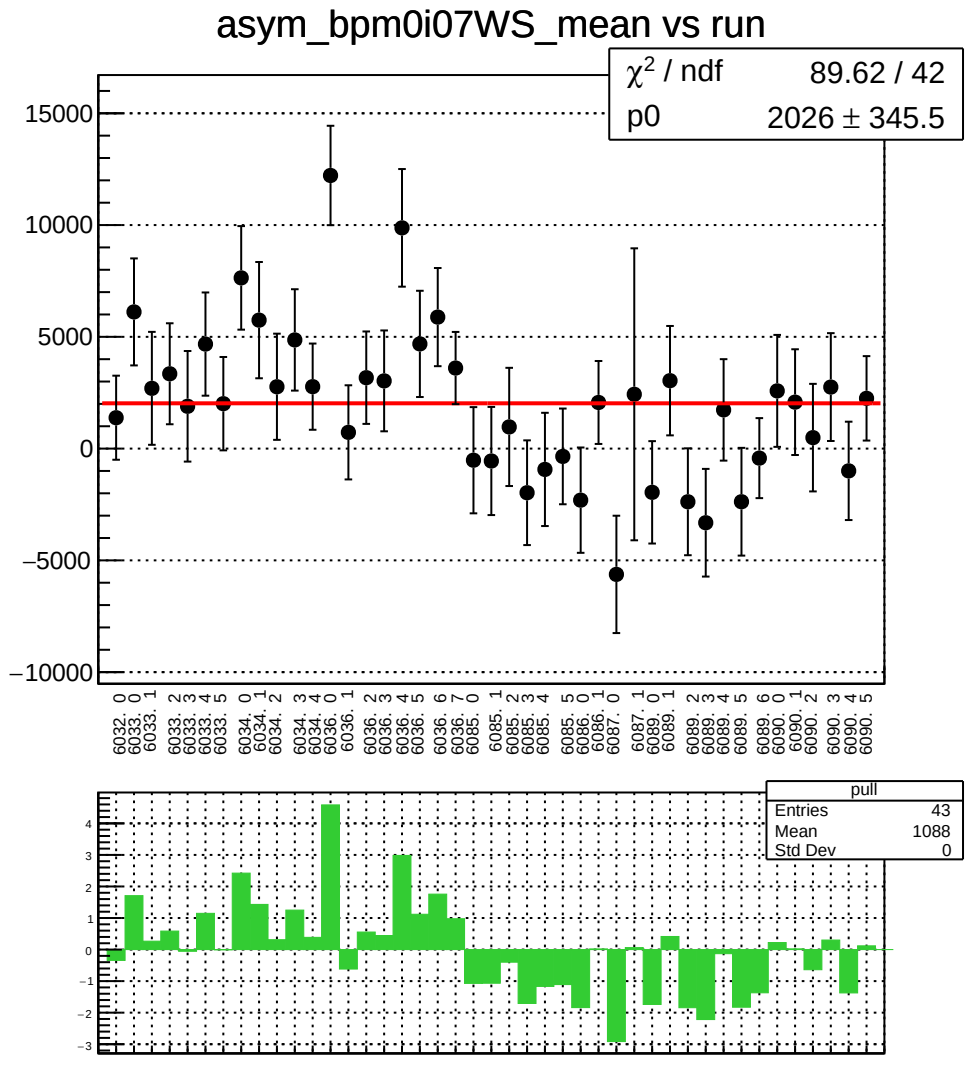

pull1D
Entries 43
Mean 0.02234
Std Dev 1.774
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

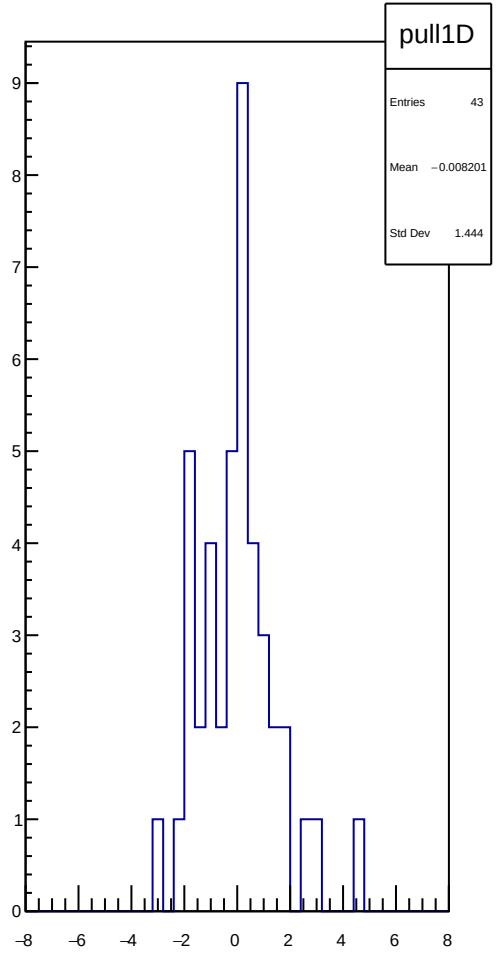

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.942e+04 / 42
p0 186 ± 0.2013
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

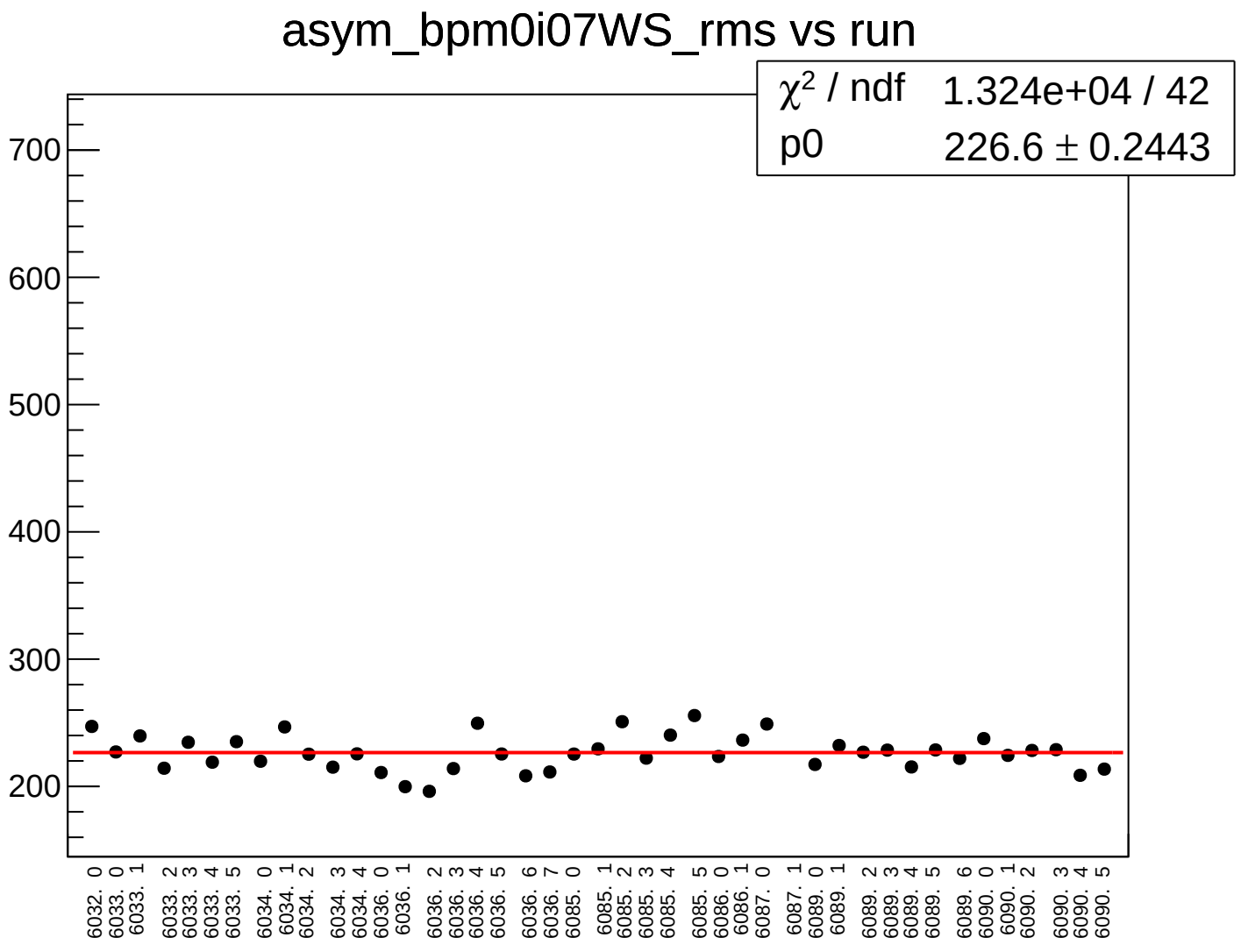

asym_bpm0i05WS_mean vs run
χ² / ndf 117.2 / 42
p0 2299 ± 318.9
15000
10000
5000
0
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 601.8
Std Dev 0
5
4
3
2
1
0
−1
−2

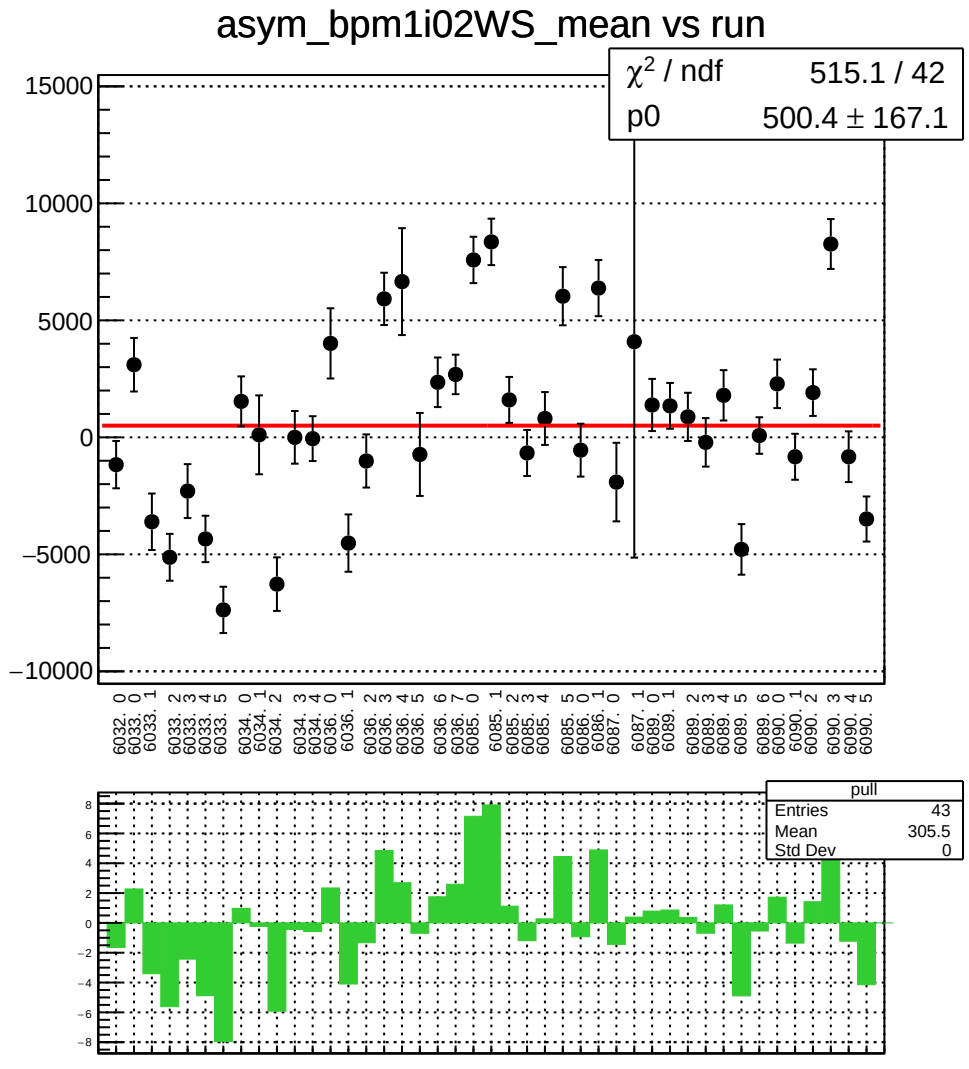

pull1D
Entries 43
Mean −0.01741
Std Dev 1.651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

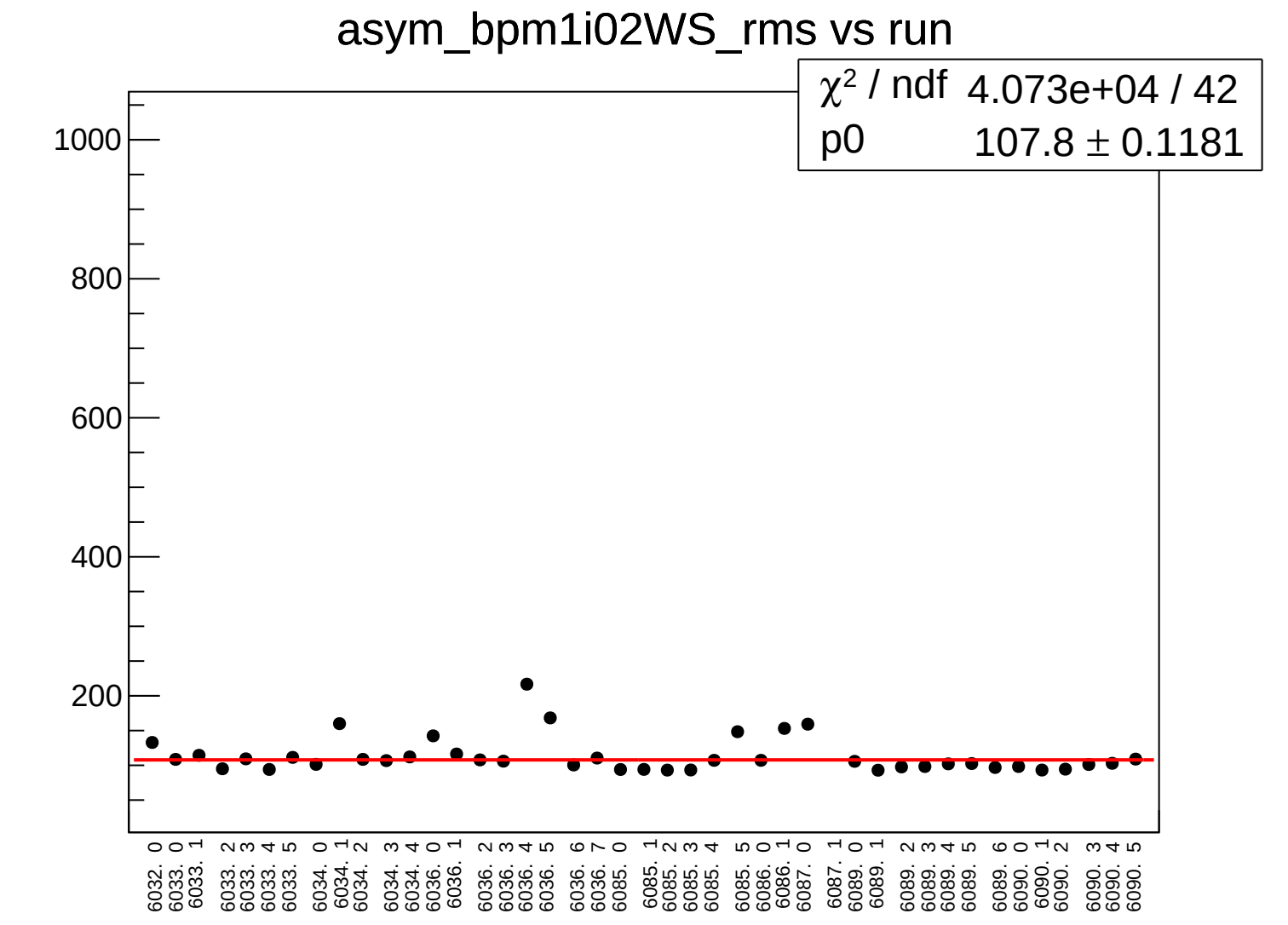

asym_bpm0i05WS_rms vs run
χ² / ndf 1.409e+04 / 42
p0 209 ± 0.2255
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

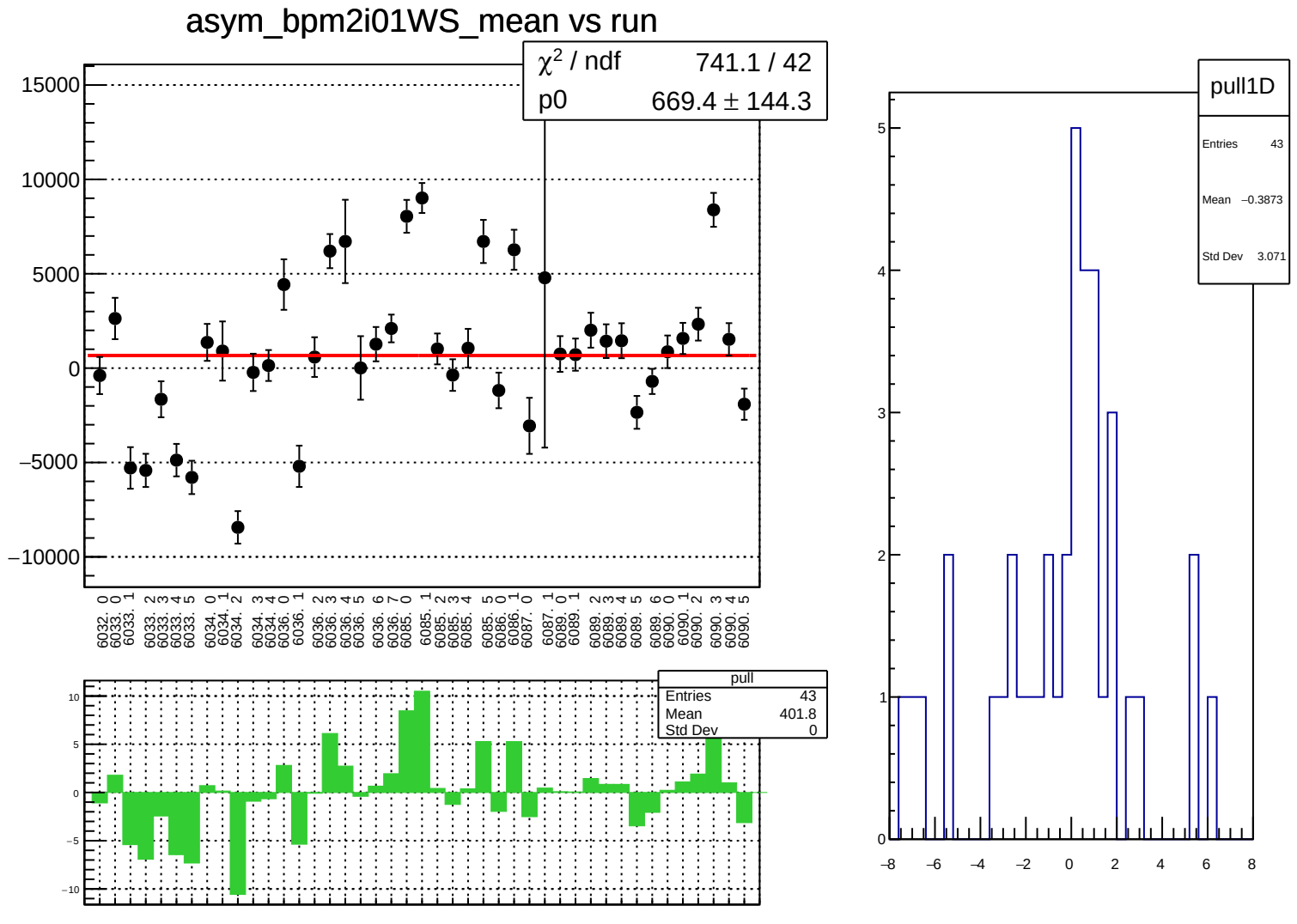

asym_bpm0i07WS_mean vs run
χ² / ndf 89.62 / 42
p0 2026 ± 345.5
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1088
Std Dev 0
4
3
2
1
0
−1
−2
−3

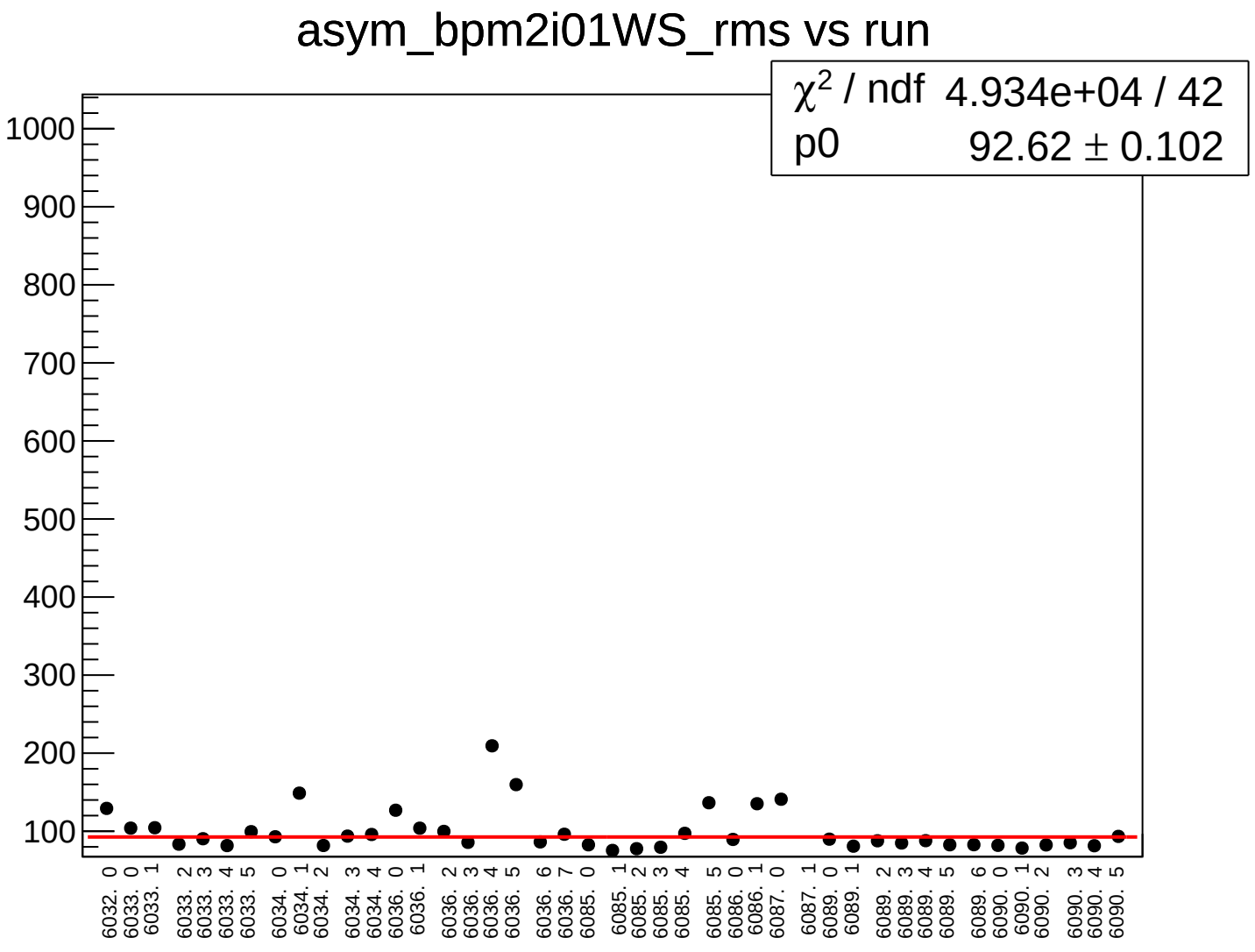

pull1D
Entries 43
Mean −0.008201
Std Dev 1.444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

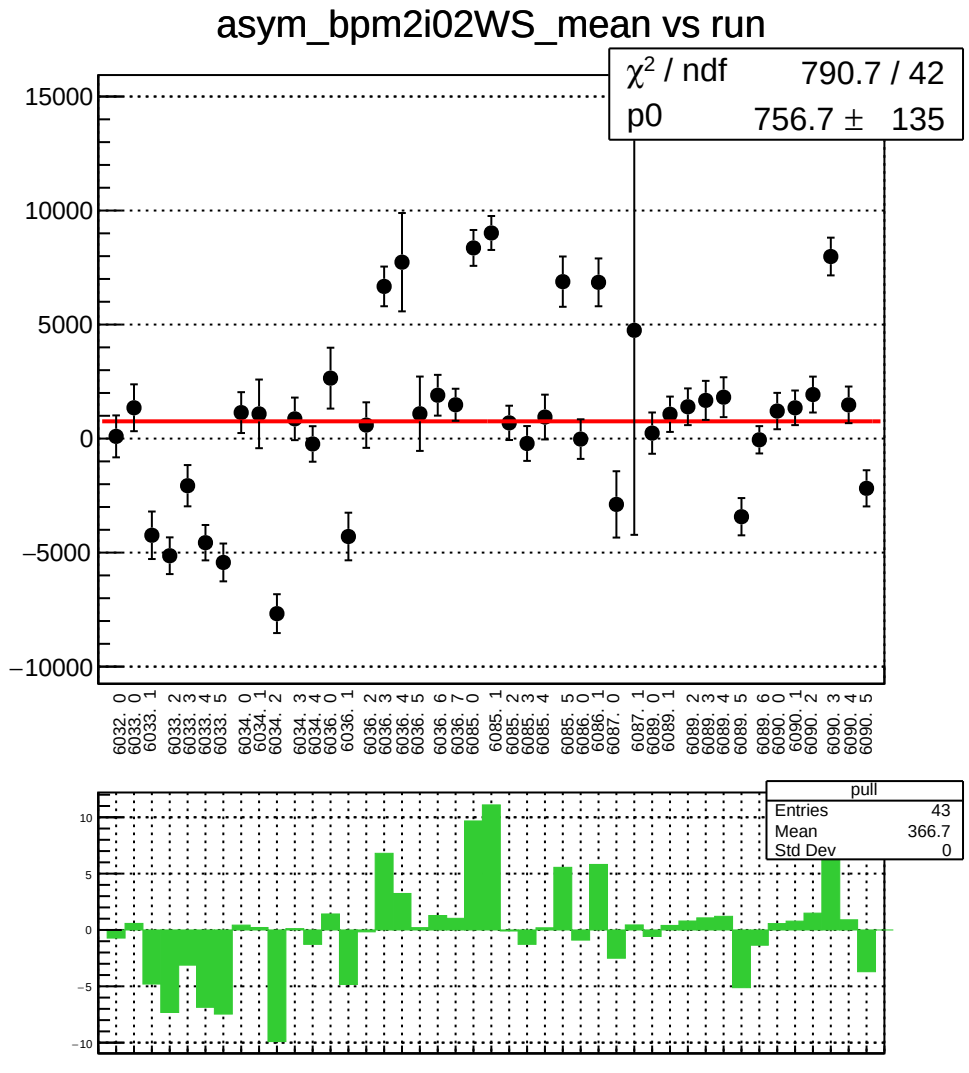

asym_bpm0i07WS_rms vs run
χ² / ndf 1.324e+04 / 42
p0 226.6 ± 0.2443
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

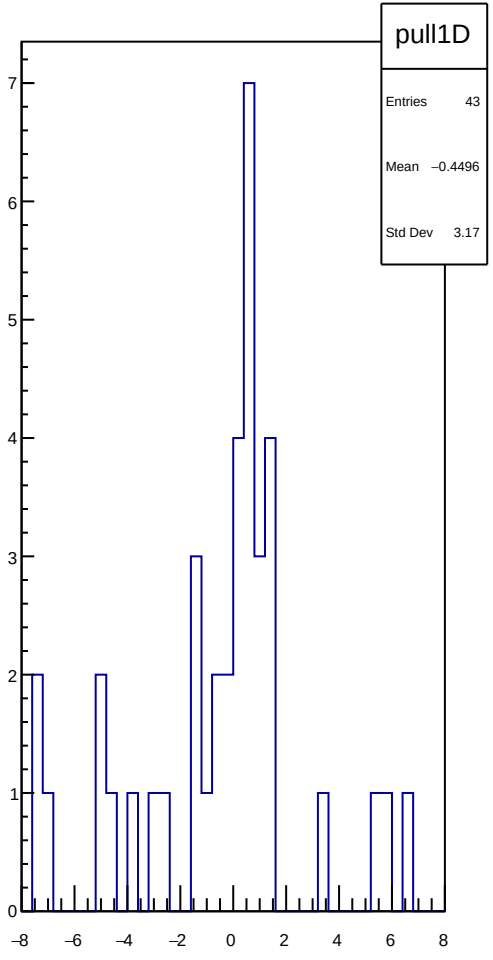

asym_bpm1i02WS_mean vs run
χ² / ndf 515.1 / 42
p0 500.4 ± 167.1
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 305.5
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 43
Mean 0.03857
Std Dev 3.461
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

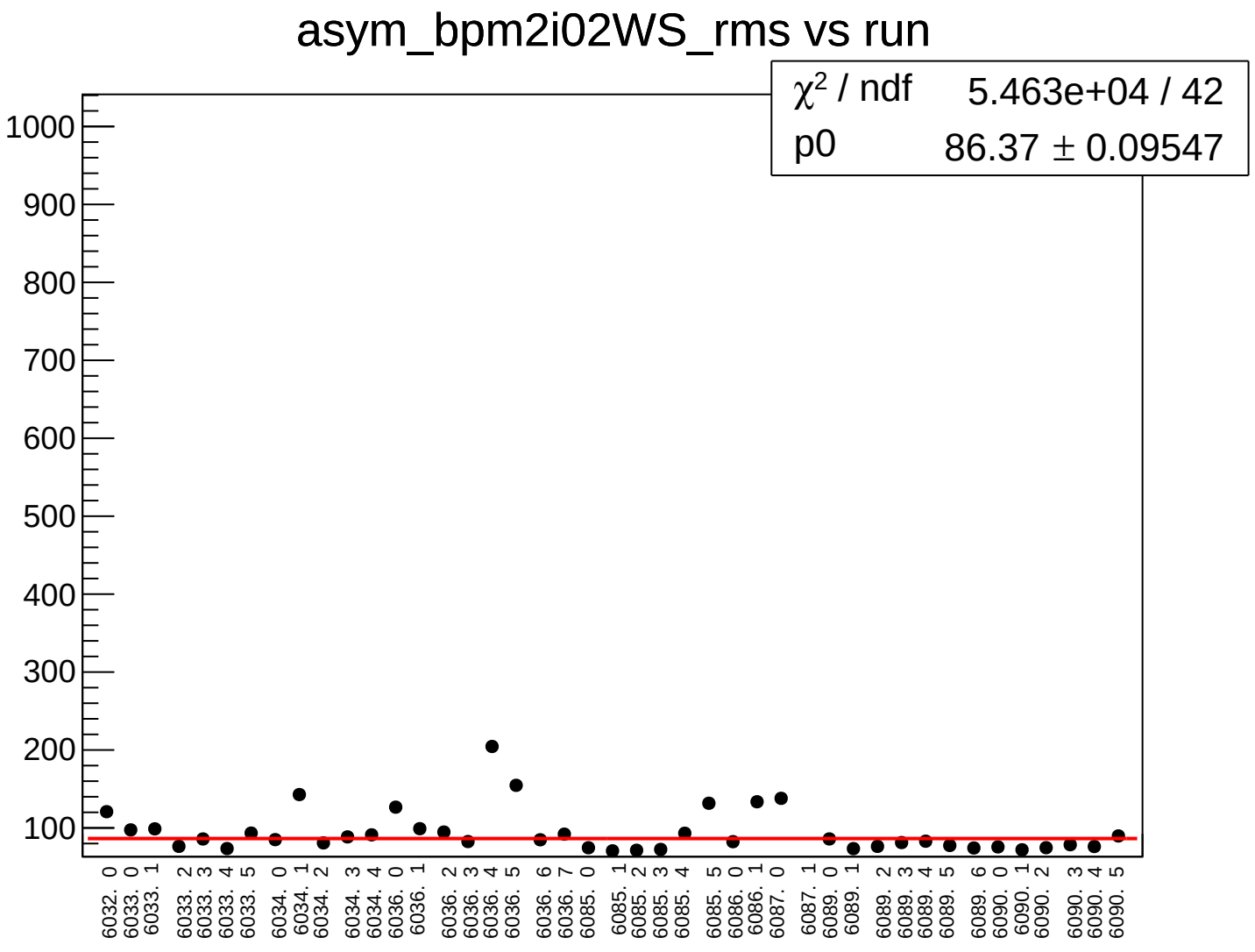

asym_bpm1i02WS_rms vs run
χ² / ndf 4.073e+04 / 42
p0 107.8 ± 0.1181
1000
800
600
400
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

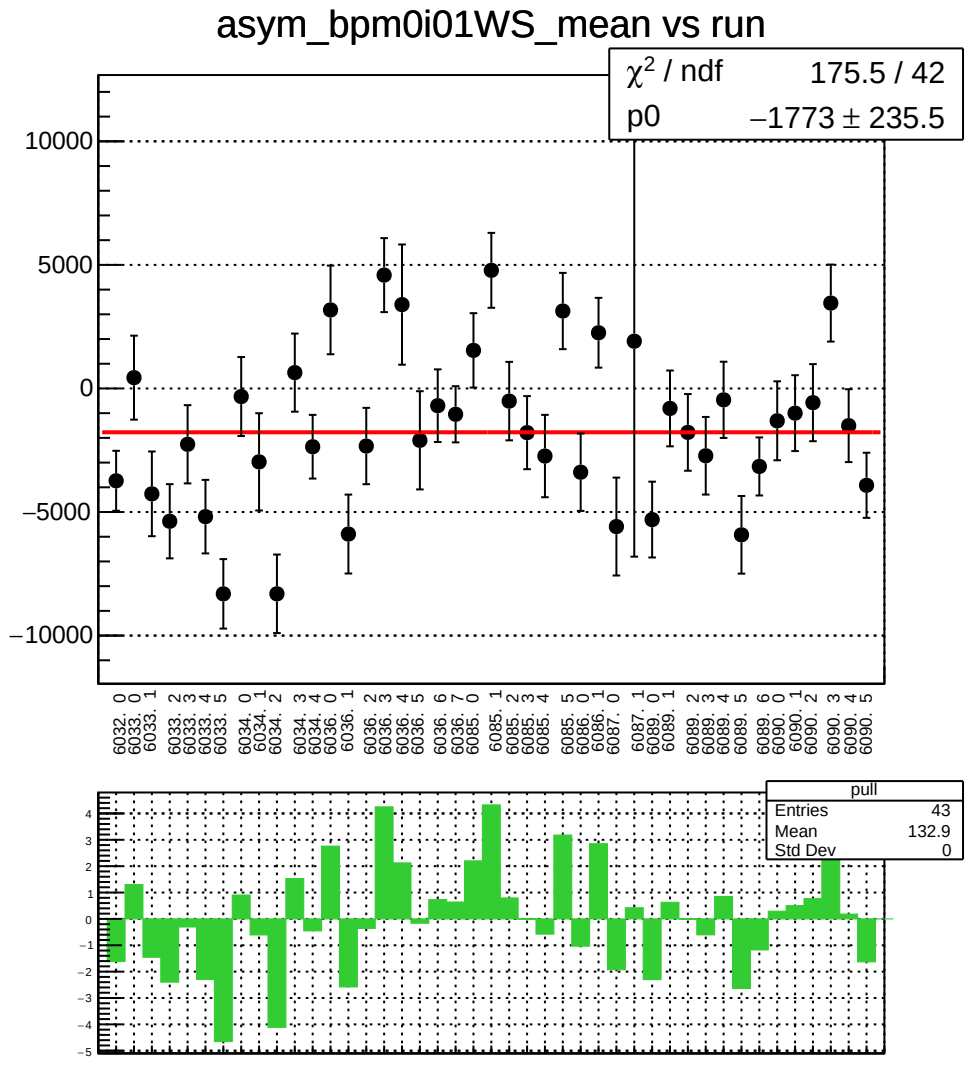

asym_bpm2i01WS_mean vs run
χ² / ndf 741.1 / 42
p0 669.4 ± 144.3
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 401.8
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 43
Mean −0.3873
Std Dev 3.071
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

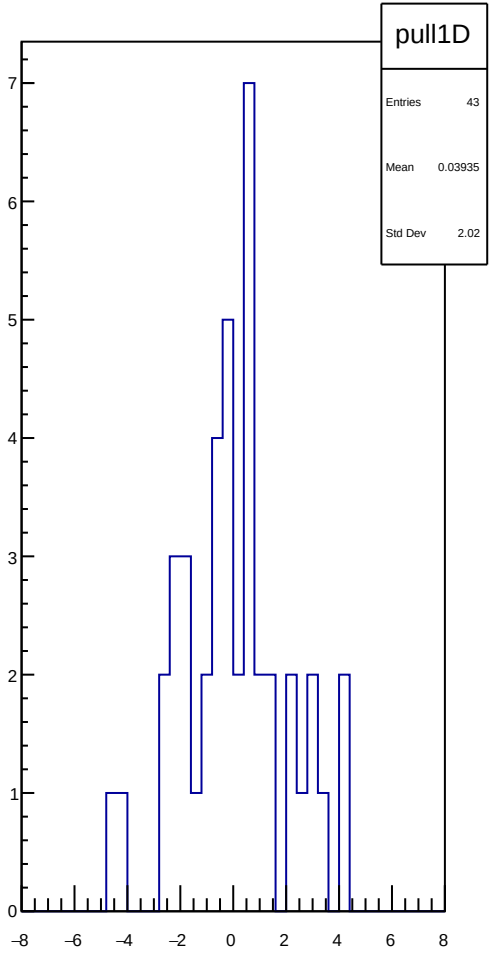

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4.934e+04 / 42
p0 92.62 ± 0.102
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

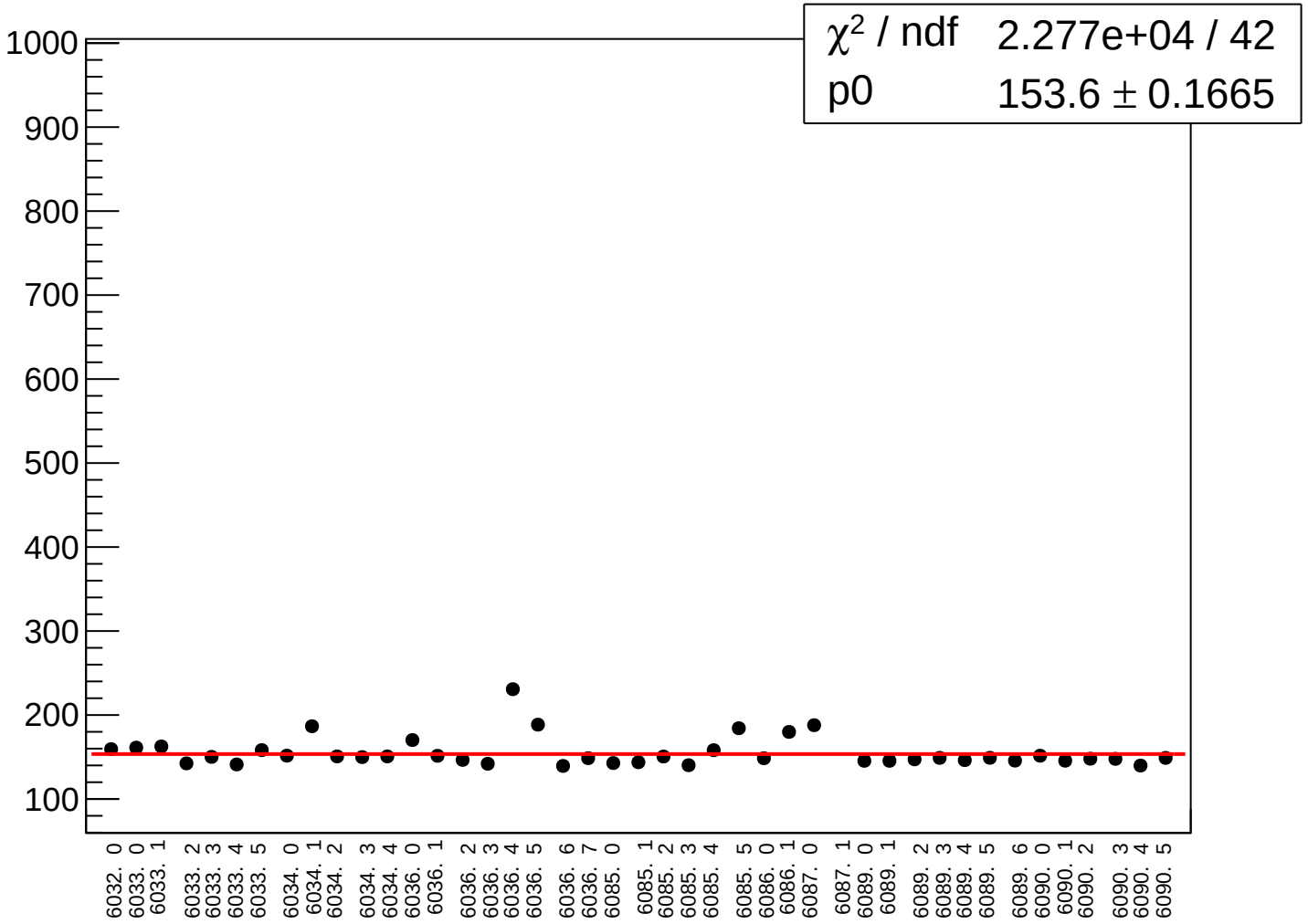

asym_bpm2i02WS_mean vs run
χ² / ndf 790.7 / 42
p0 756.7 ± 135
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 366.7
Std Dev 0
10
5
0
−5
−10

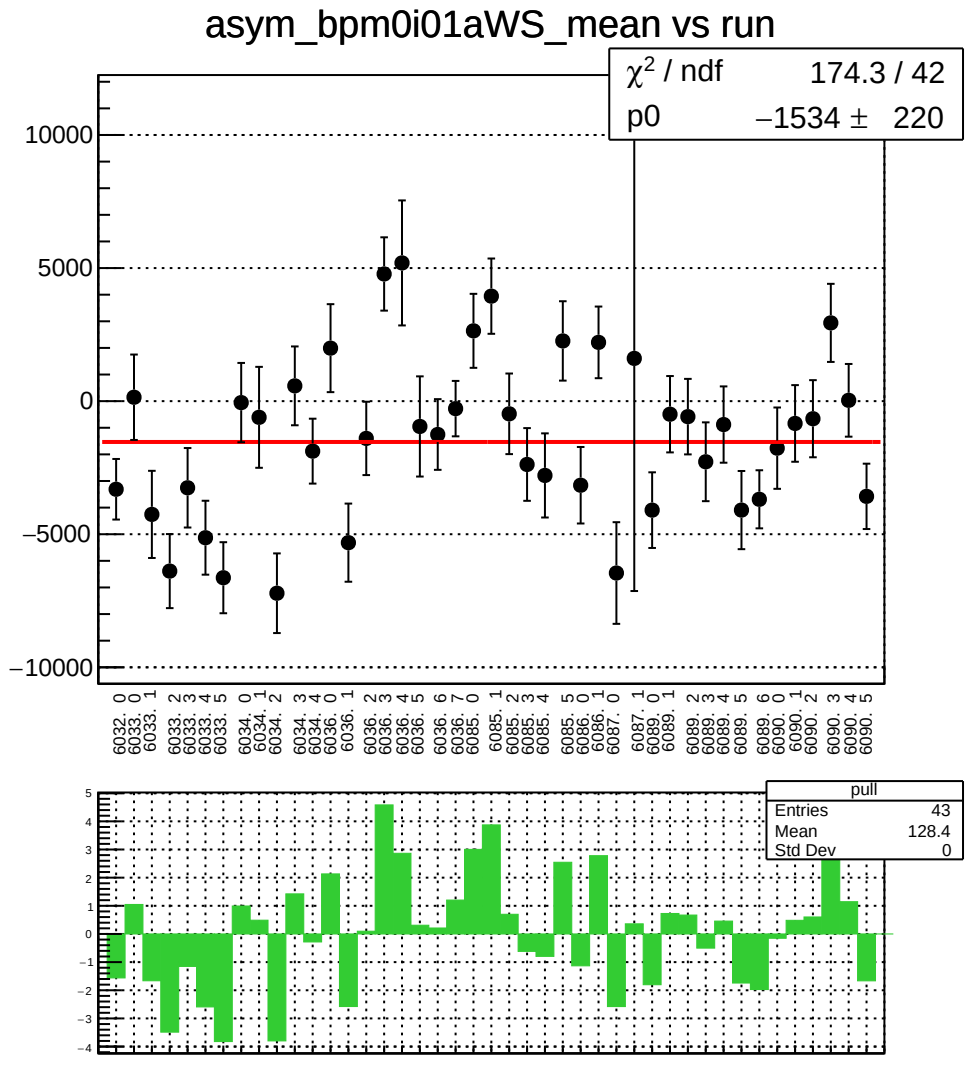

pull1D
Entries 43
Mean −0.4496
Std Dev 3.17
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

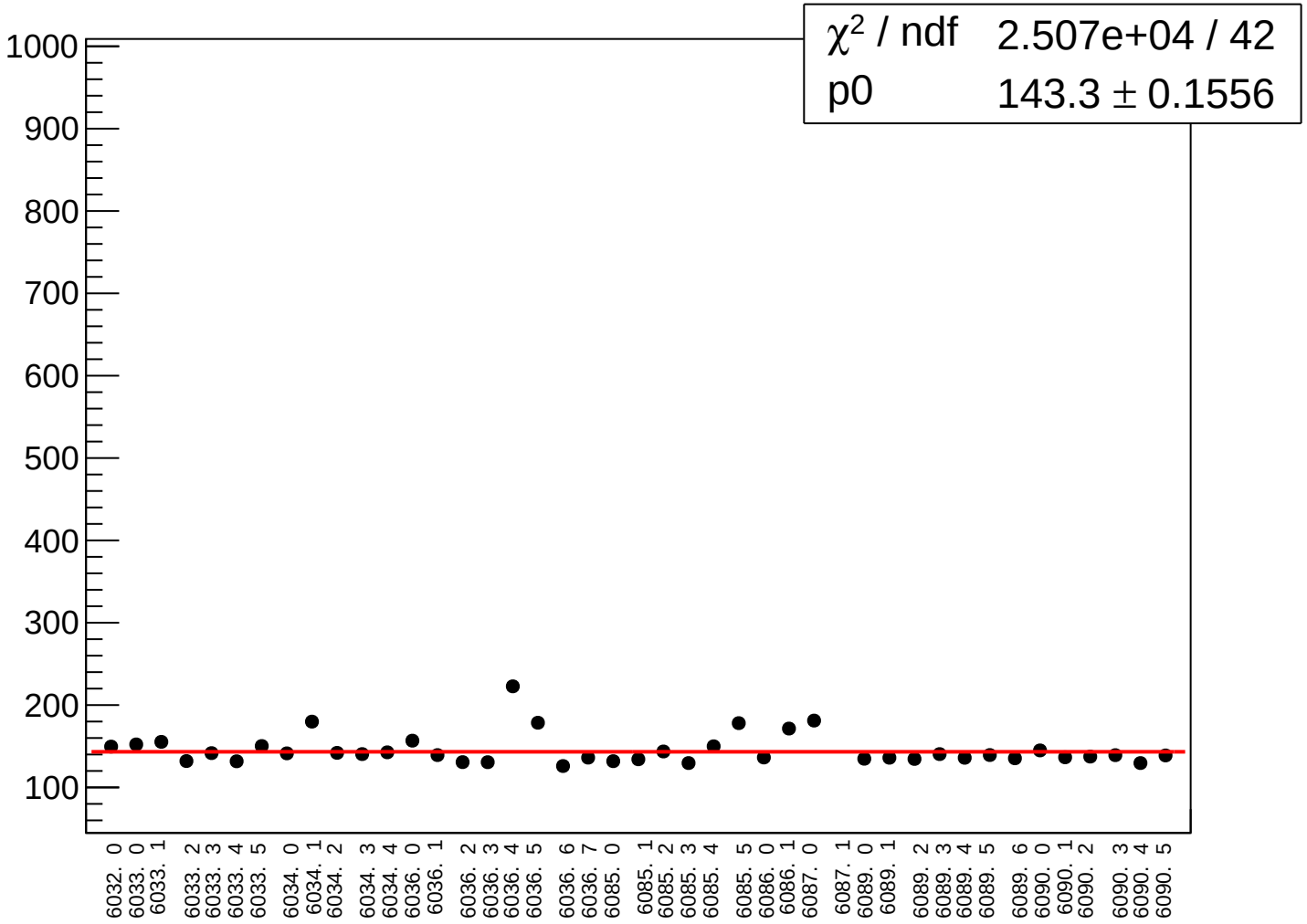

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5.463e+04 / 42
p0 86.37 ± 0.09547
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

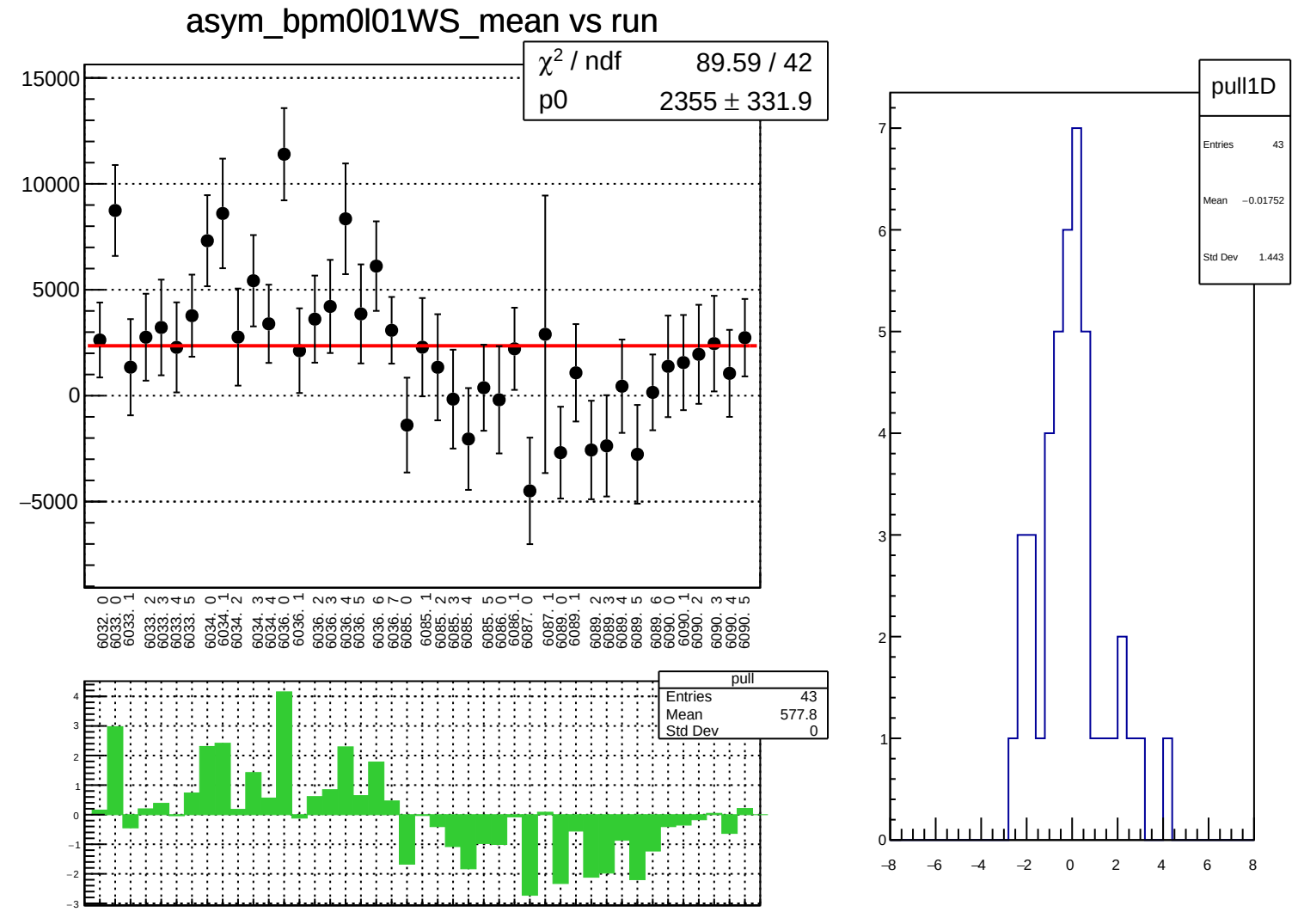

asym_bpm0i01WS_mean vs run
χ² / ndf 175.5 / 42
p0 −1773 ± 235.5
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 132.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

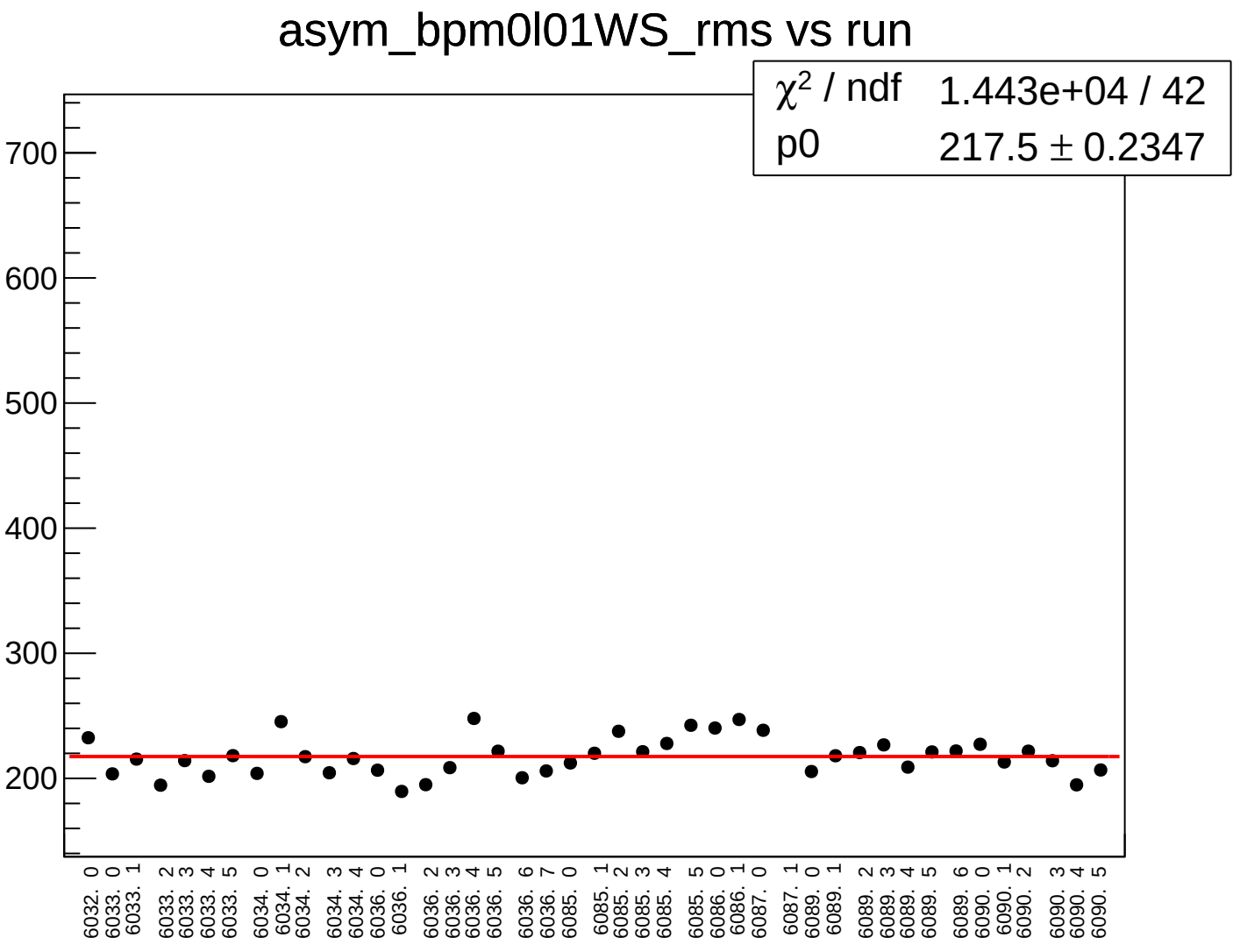

pull1D
Entries 43
Mean 0.03935
Std Dev 2.02
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

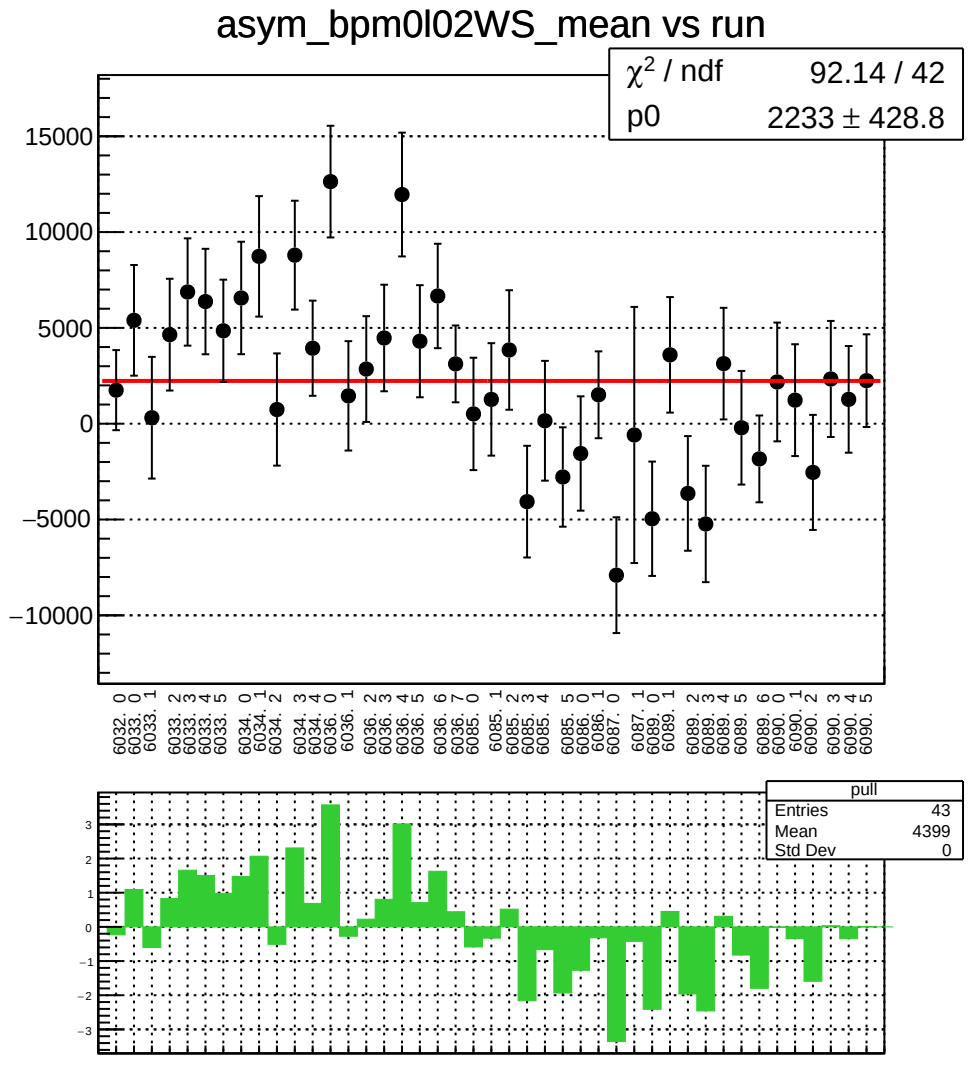

asym_bpm0i01WS_rms vs run
χ² / ndf 2.277e+04 / 42
p0 153.6 ± 0.1665
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

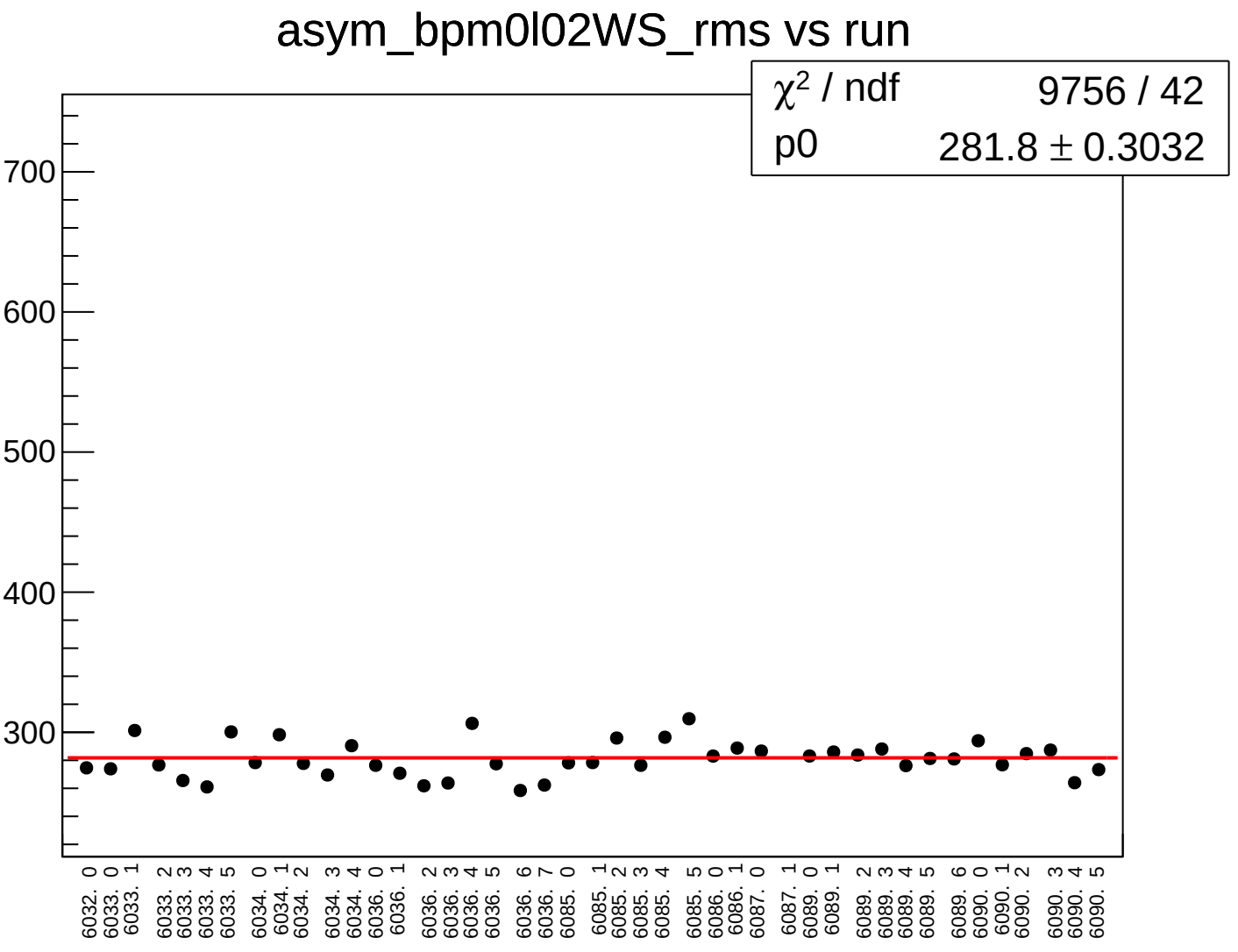

asym_bpm0i01aWS_mean vs run
χ² / ndf 174.3 / 42
p0 −1534 ± 220
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 128.4
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.04322
Std Dev 2.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

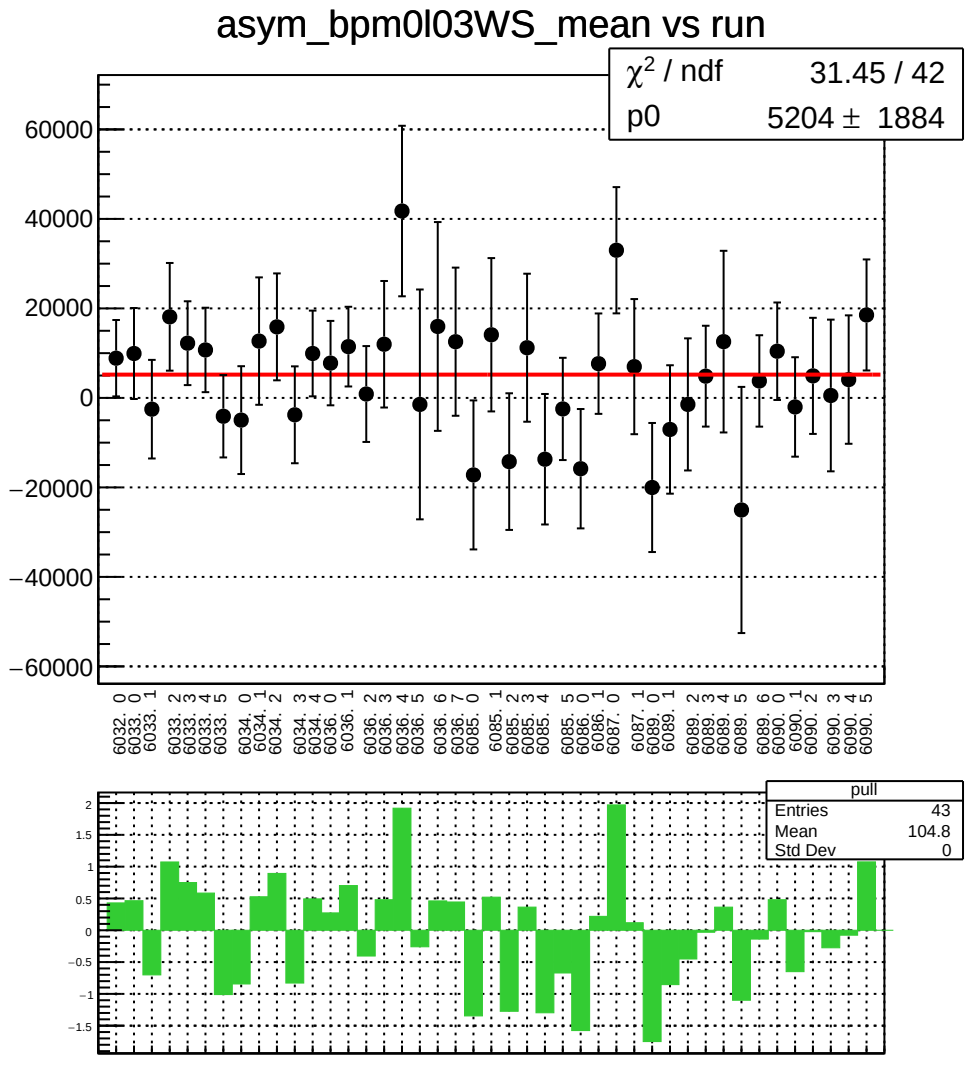

asym_bpm0i01aWS_rms vs run
χ² / ndf 2.507e+04 / 42
p0 143.3 ± 0.1556
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

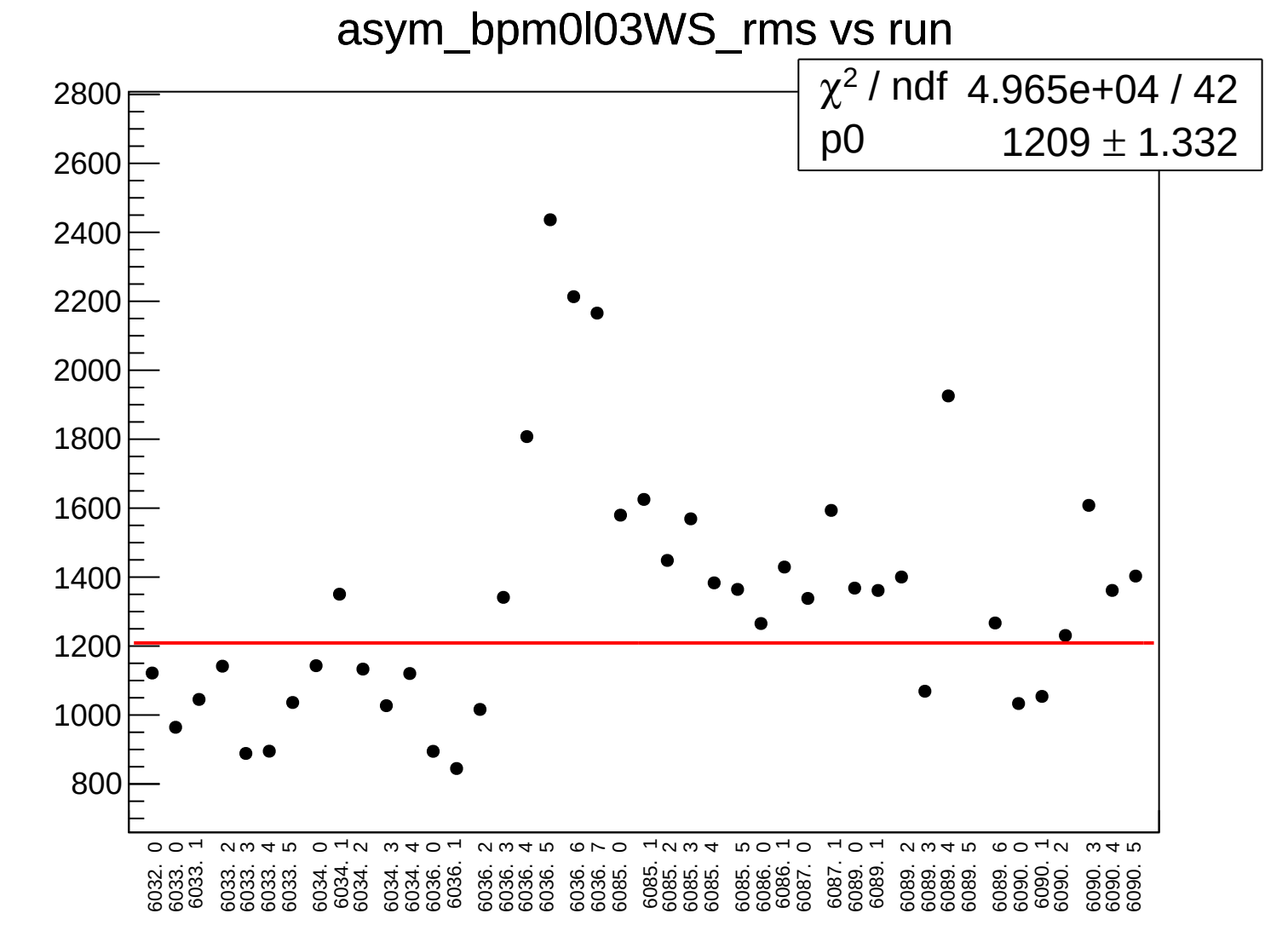

asym_bpm0l01WS_mean vs run
χ² / ndf 89.59 / 42
p0 2355 ± 331.9
15000
10000
5000
0
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 577.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01752
Std Dev 1.443
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

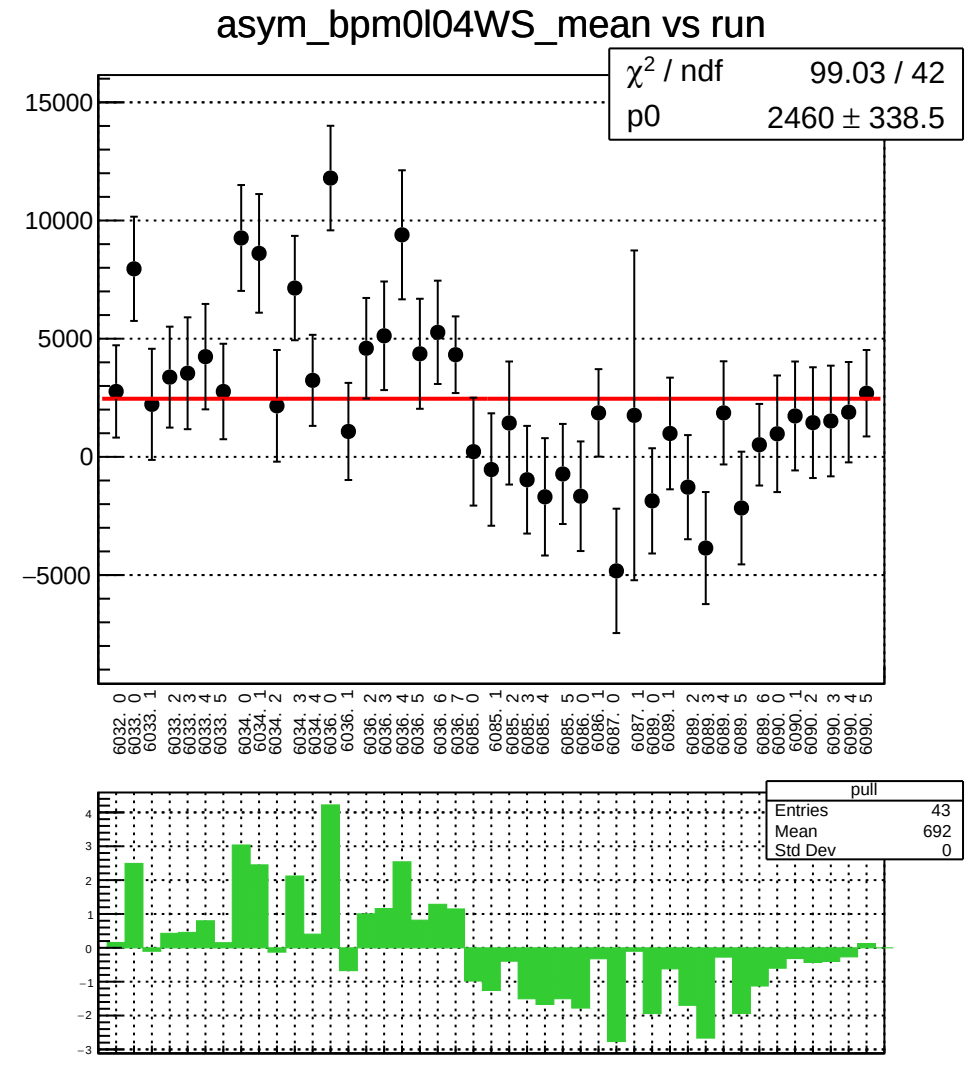

asym_bpm0l01WS_rms vs run
χ² / ndf 1.443e+04 / 42
p0 217.5 ± 0.2347
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

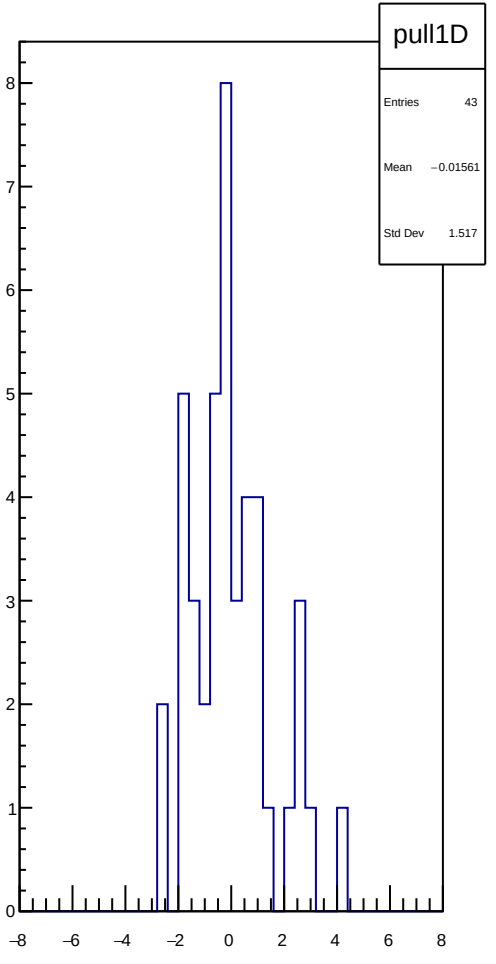

asym_bpm0l02WS_mean vs run
χ² / ndf 92.14 / 42
p0 2233 ± 428.8
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4399
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.002193
Std Dev 1.464
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

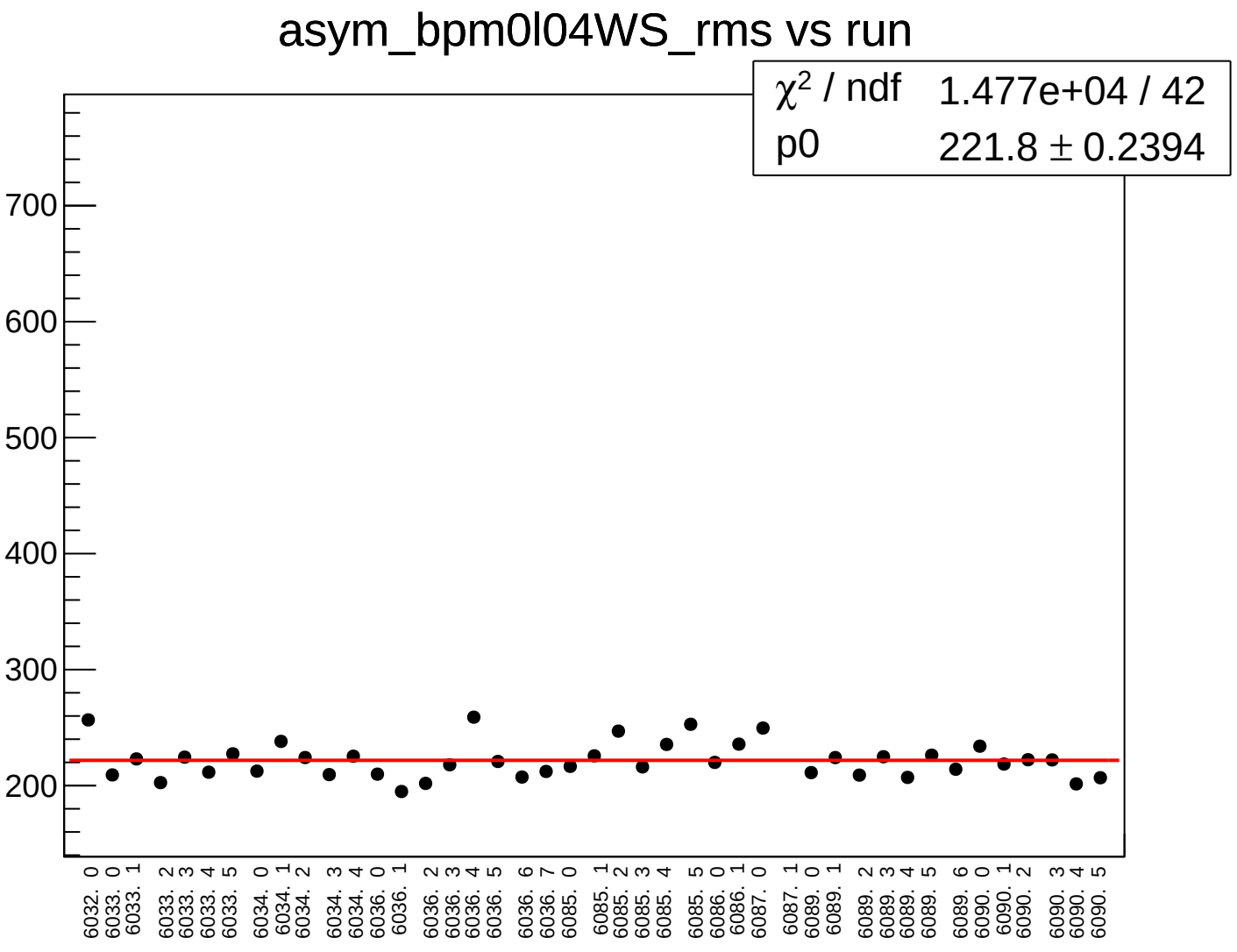

asym_bpm0l02WS_rms vs run
χ² / ndf 9756 / 42
p0 281.8 ± 0.3032
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

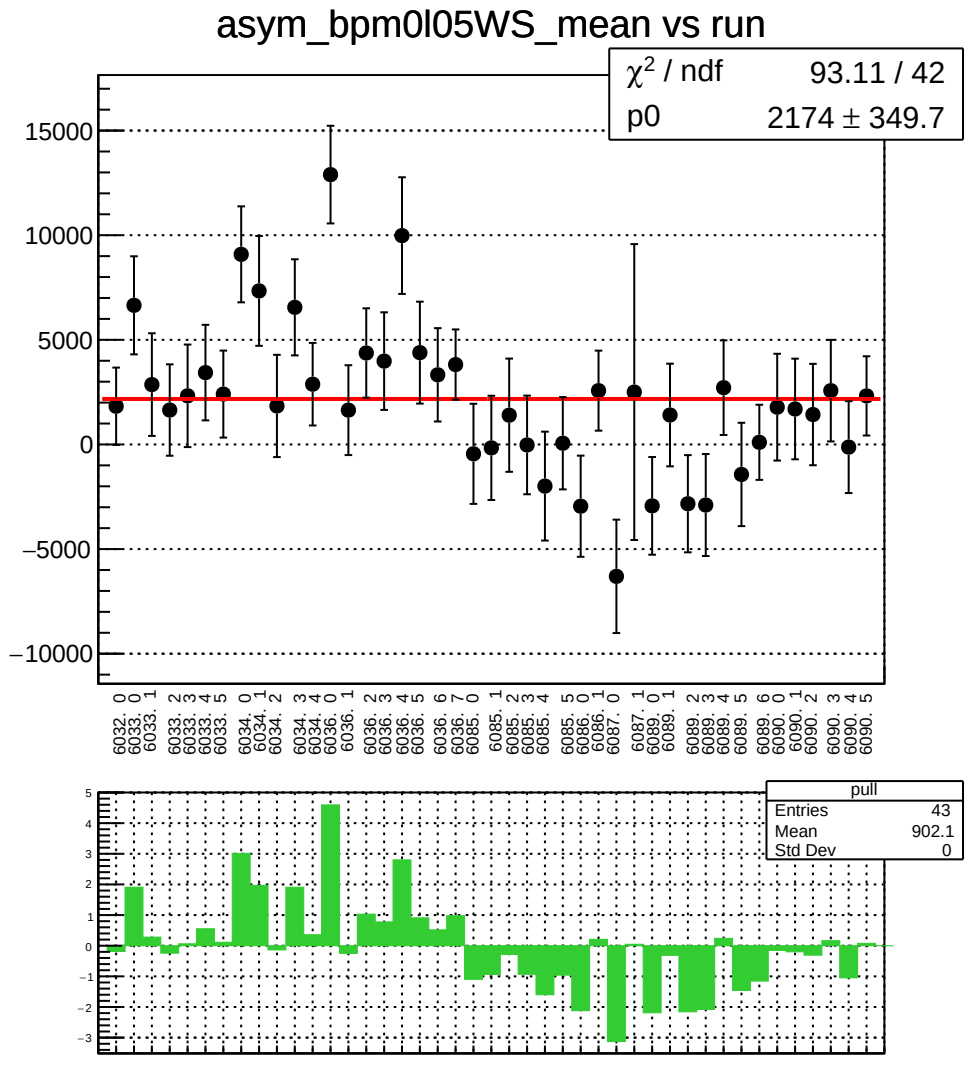

asym_bpm0l03WS_mean vs run
χ² / ndf 31.45 / 42
p0 5204 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02225
Std Dev 0.8549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

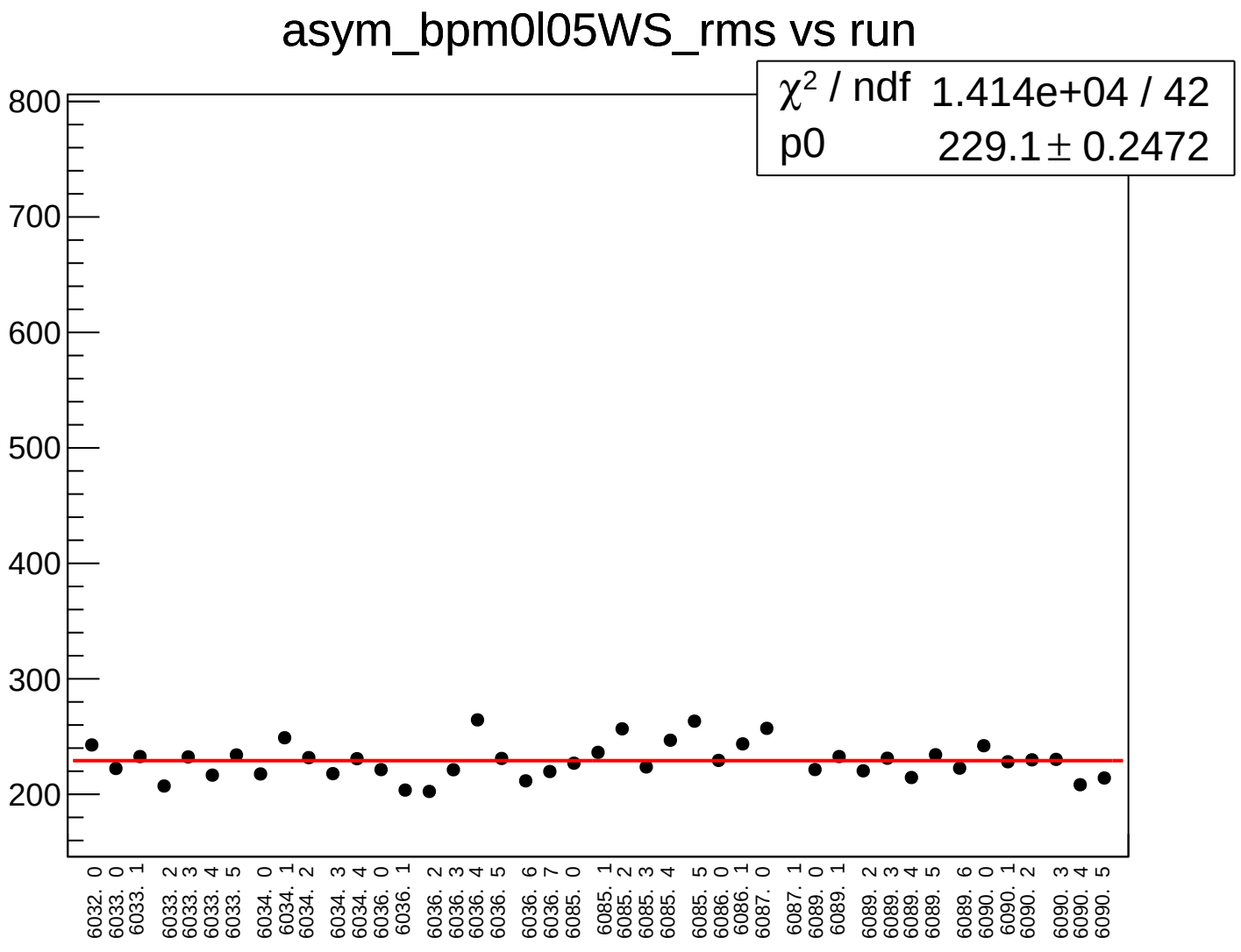

asym_bpm0l03WS_rms vs run
χ² / ndf 4.965e+04 / 42
p0 1209 ± 1.332
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

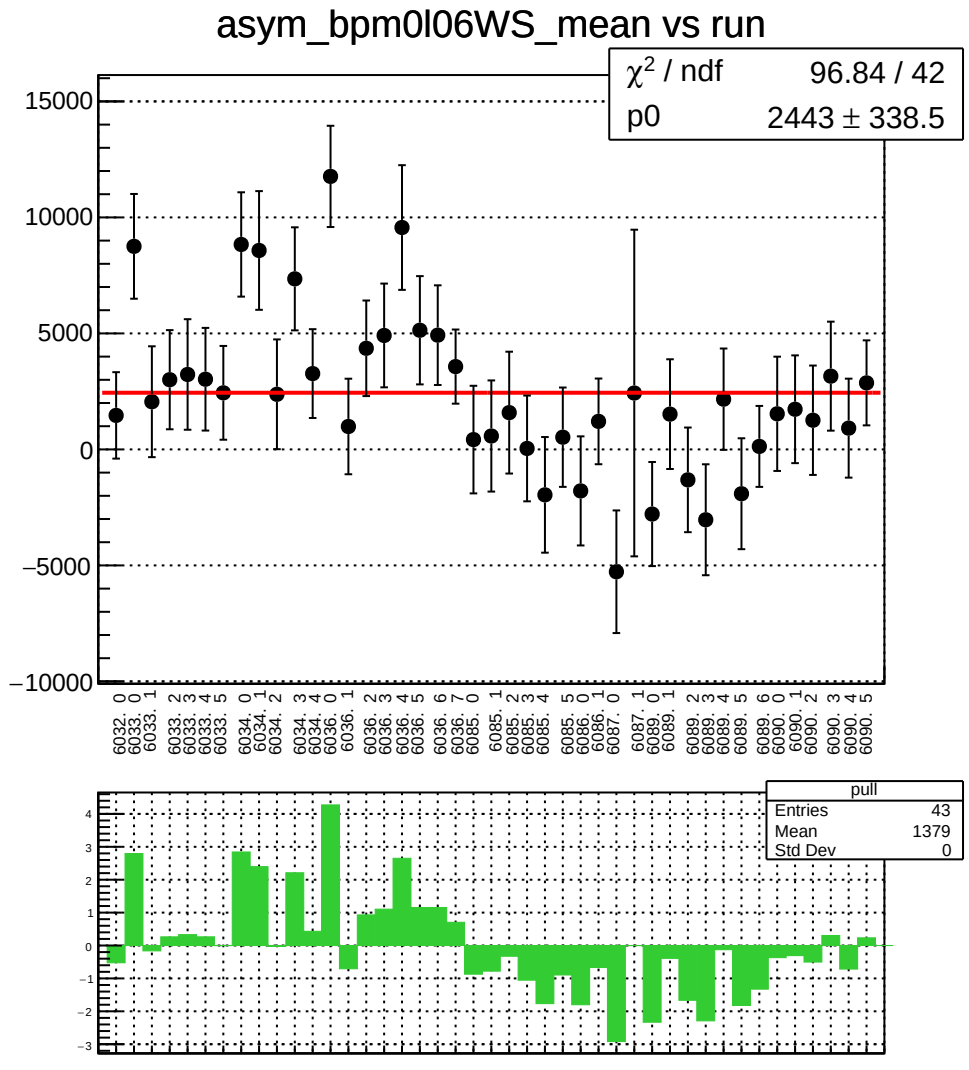

asym_bpm0l04WS_mean vs run
χ² / ndf 99.03 / 42
p0 2460 ± 338.5
15000
10000
5000
0
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 692
Std Dev 0
4
3
2
1
0
−1
−2
−3

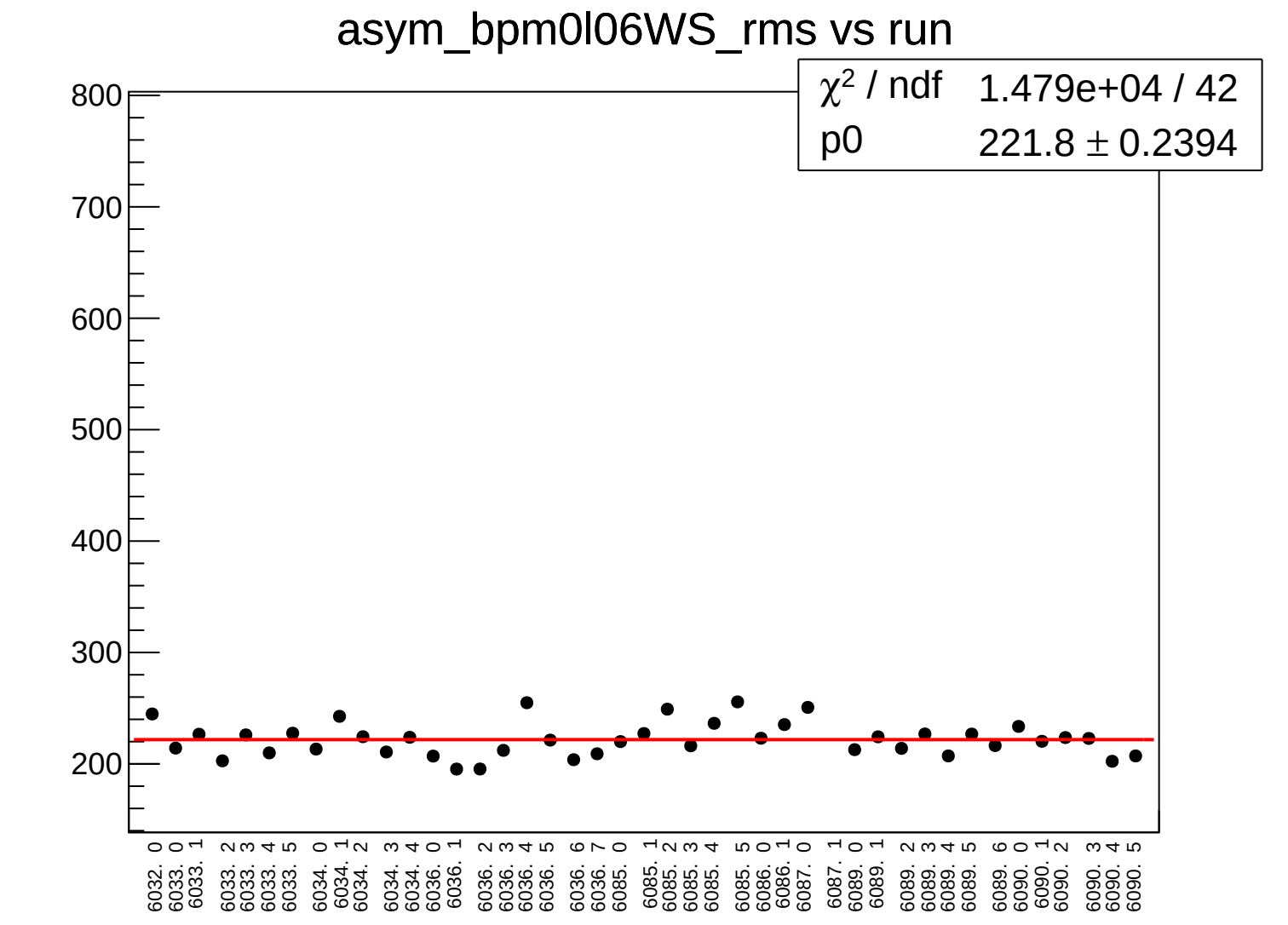

pull1D
Entries 43
Mean −0.01561
Std Dev 1.517
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

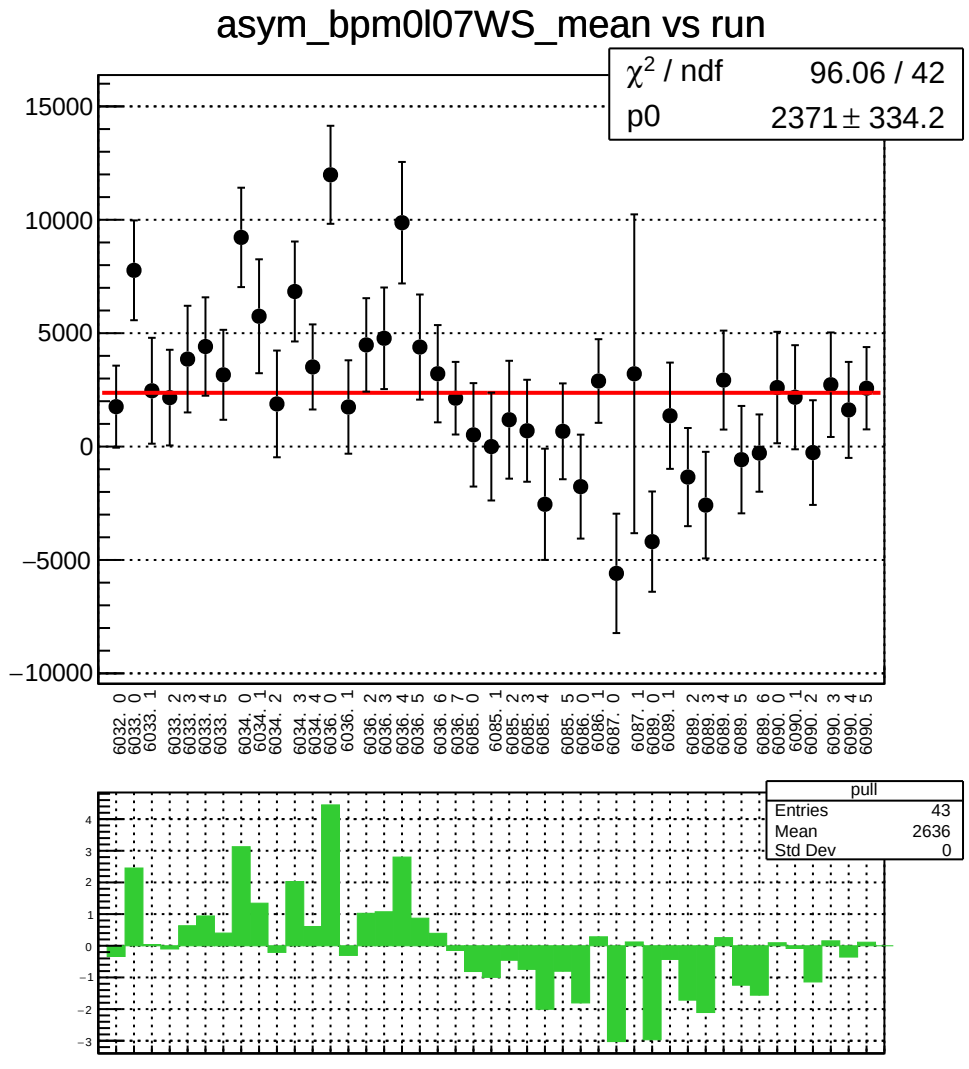

asym_bpm0l04WS_rms vs run
χ² / ndf 1.477e+04 / 42
p0 221.8 ± 0.2394
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

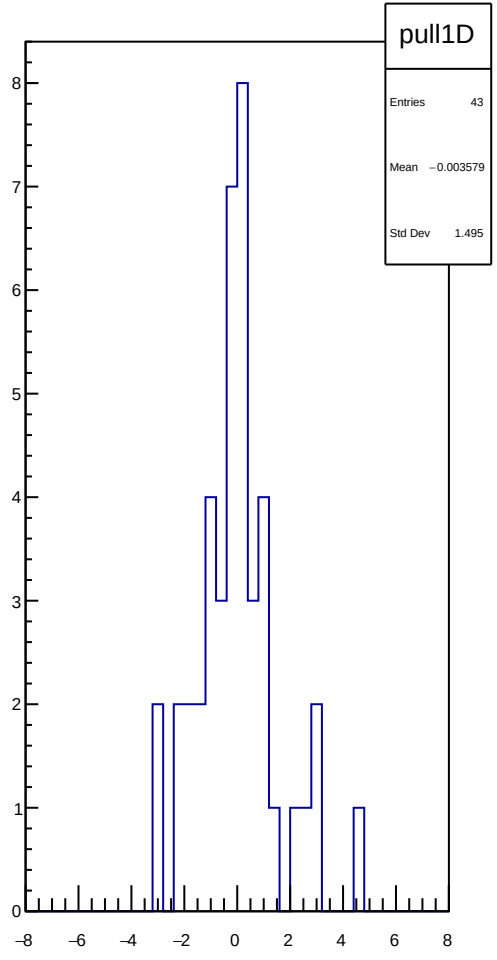

asym_bpm0l05WS_mean vs run
χ² / ndf 93.11 / 42
p0 2174 ± 349.7
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 902.1
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01014
Std Dev 1.471
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

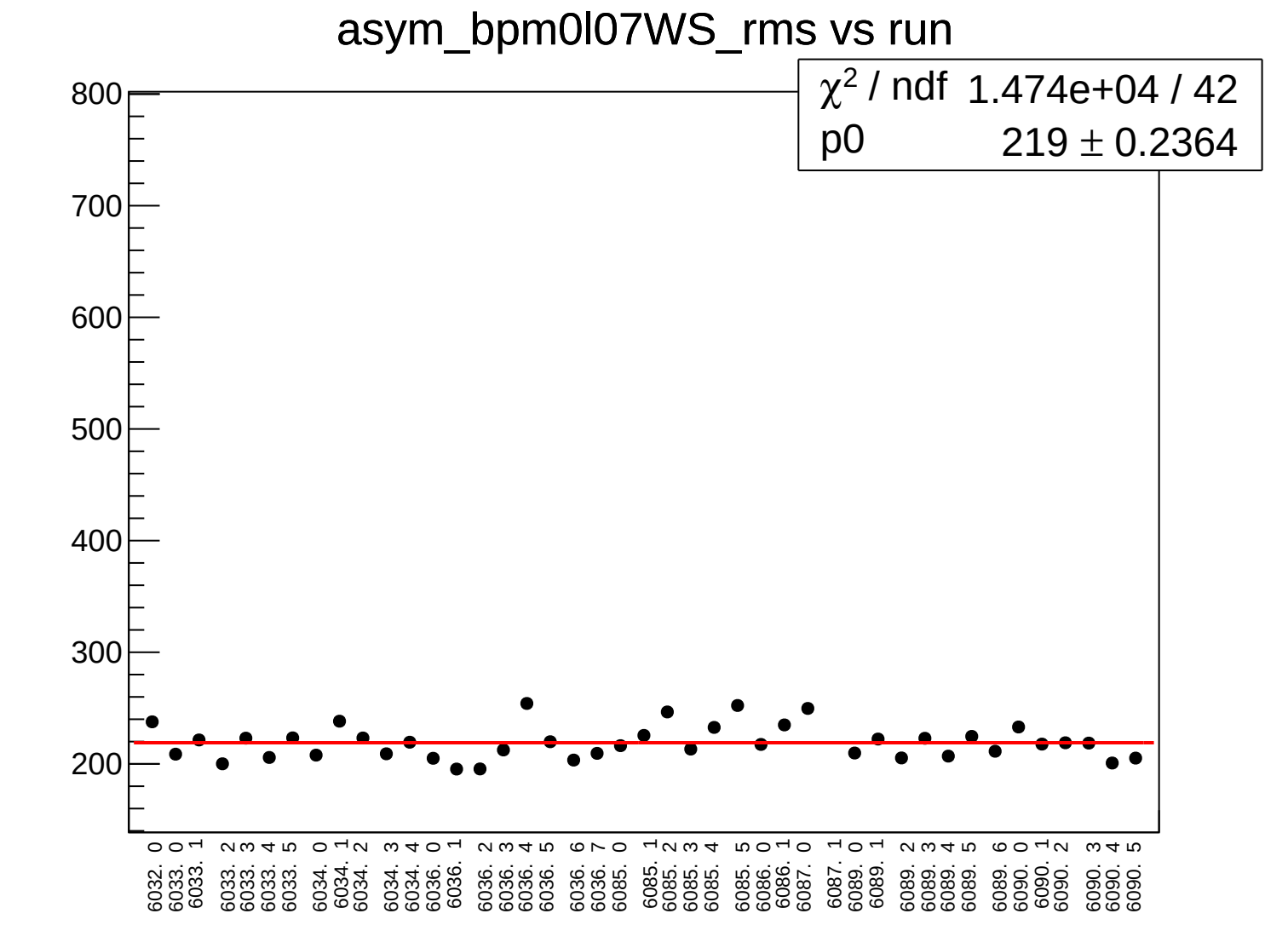

asym_bpm0l05WS_rms vs run
χ² / ndf 1.414e+04 / 42
p0 229.1 ± 0.2472
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

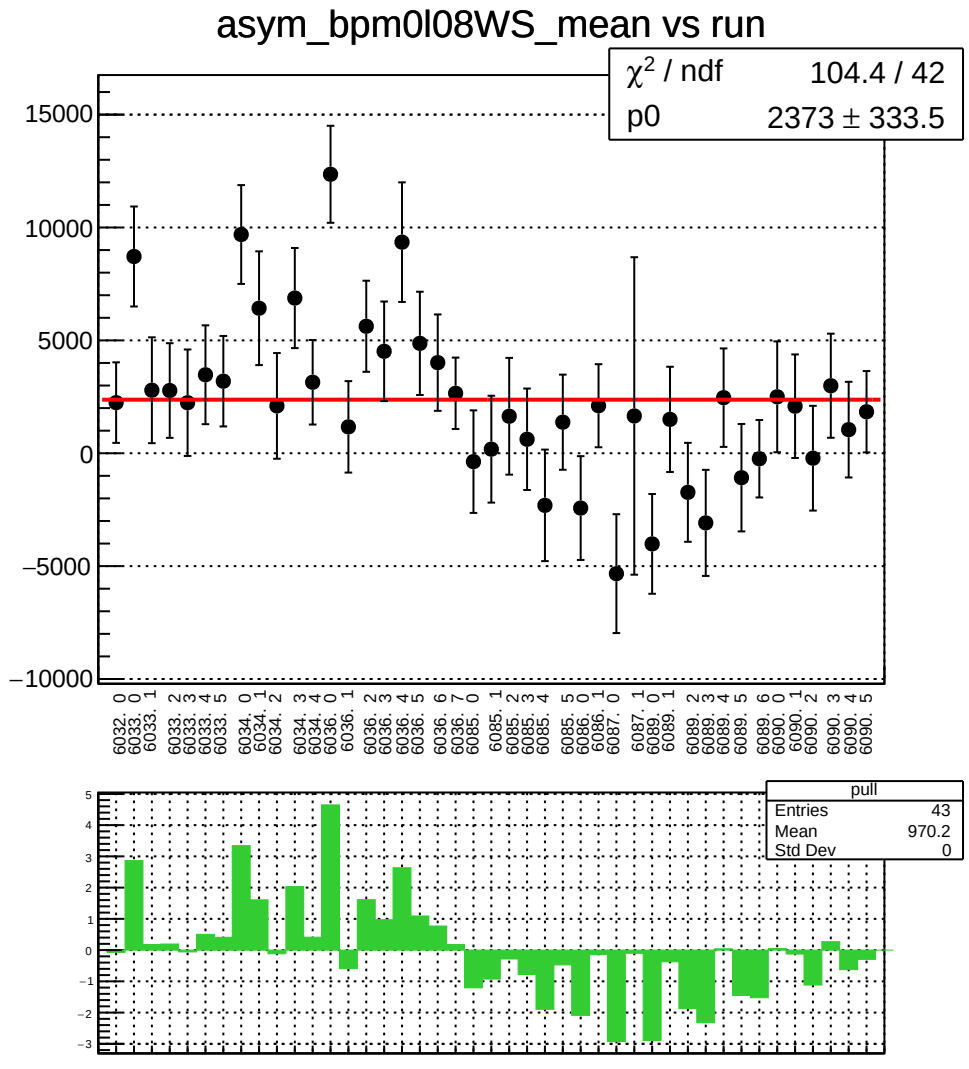

asym_bpm0l06WS_mean vs run
χ² / ndf 96.84 / 42
p0 2443 ± 338.5
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1379
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007019
Std Dev 1.501
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

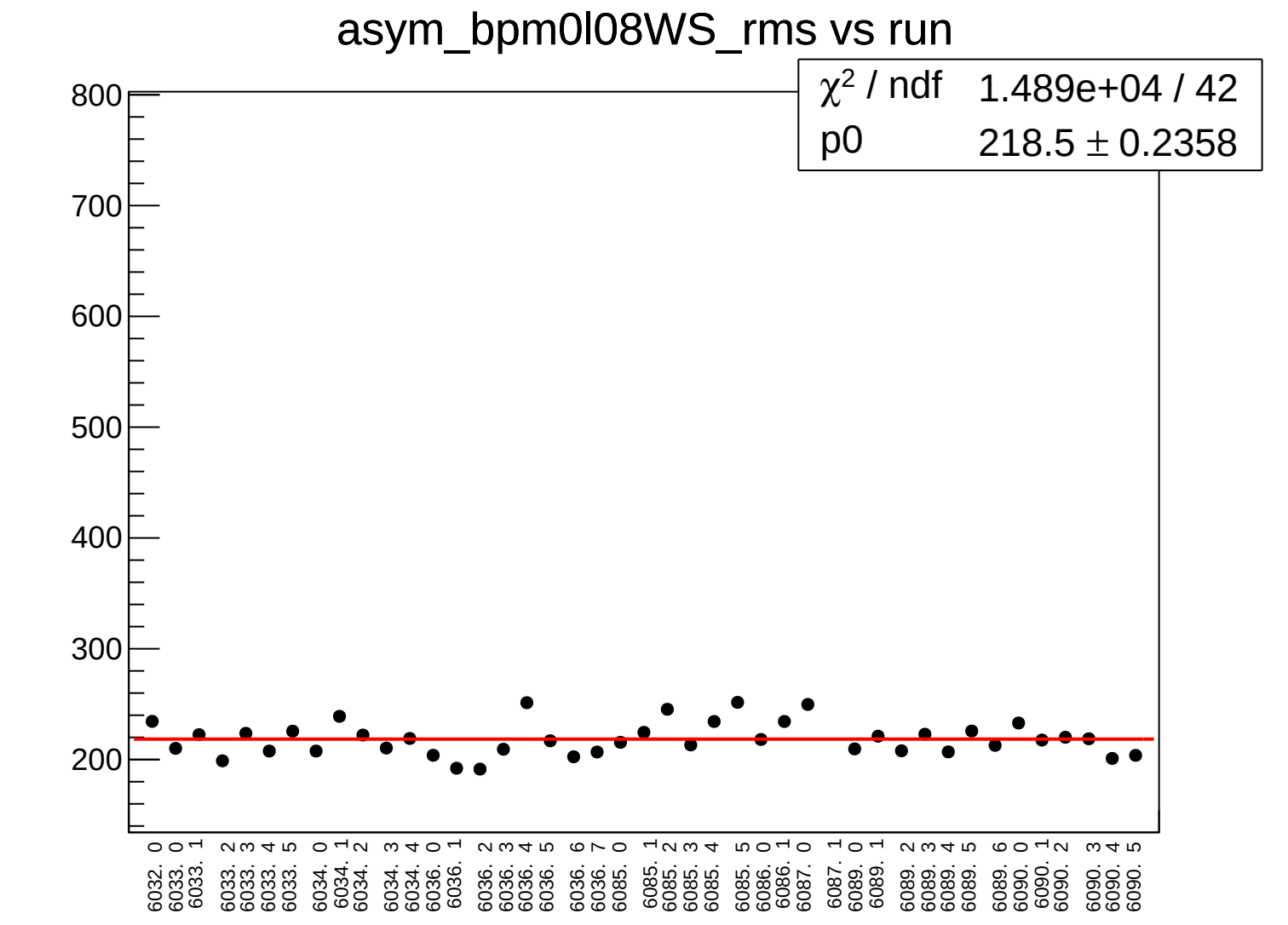

asym_bpm0l06WS_rms vs run
χ² / ndf 1.479e+04 / 42
p0 221.8 ± 0.2394
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

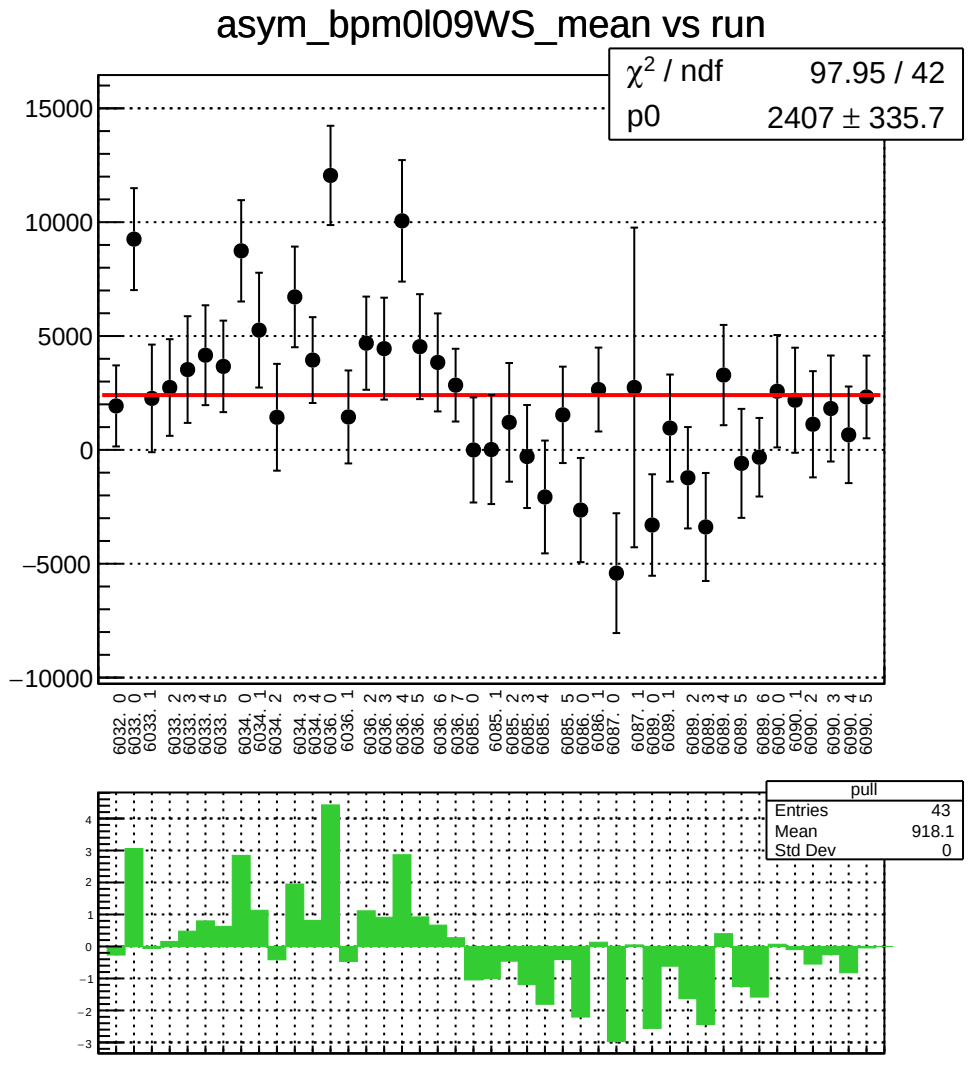

asym_bpm0l07WS_mean vs run
χ² / ndf 96.06 / 42
p0 2371 ± 334.2
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2636
Std Dev 0
4
3
2
1
0
−1
−2
−3

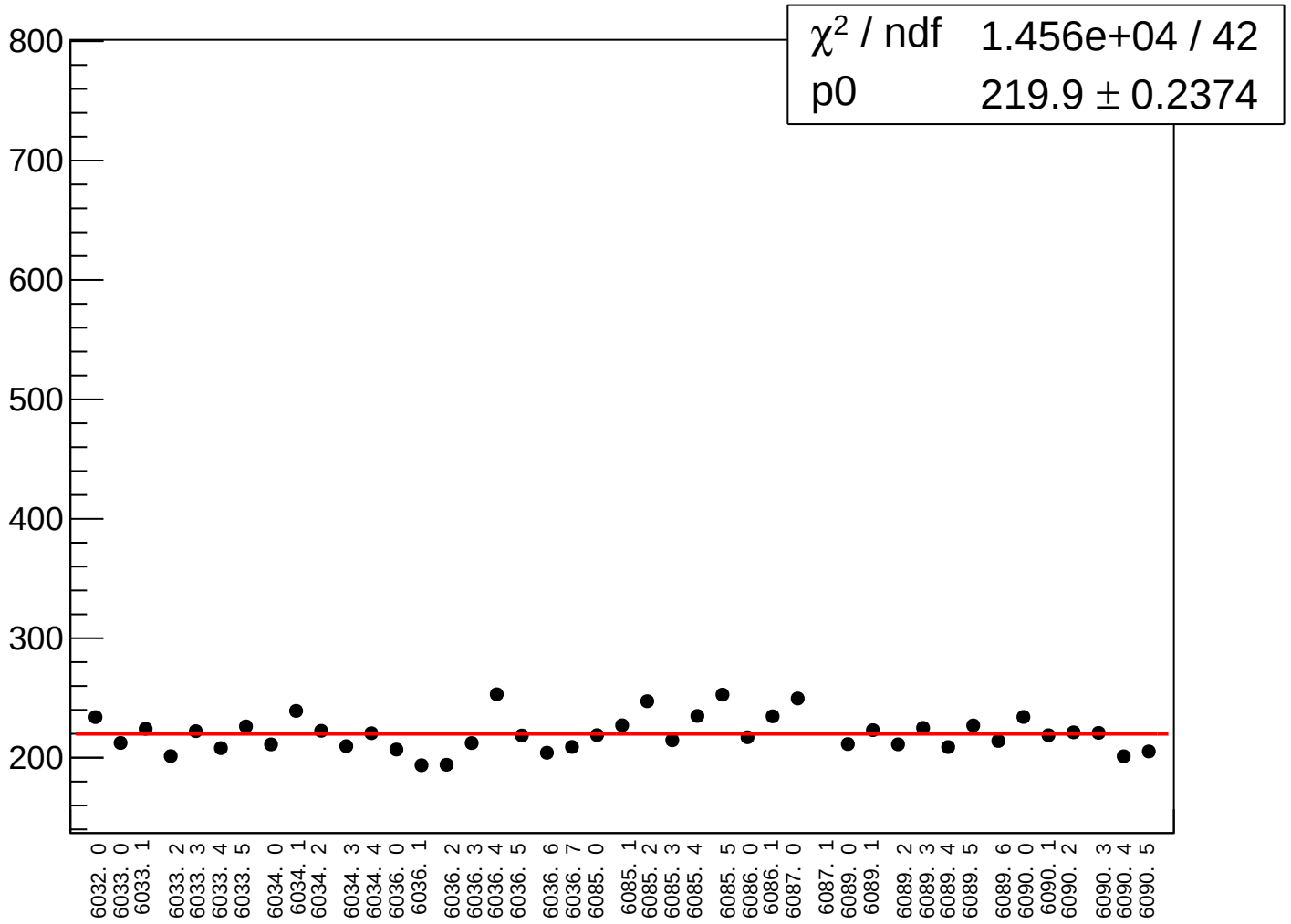

pull1D
Entries 43
Mean −0.003579
Std Dev 1.495
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

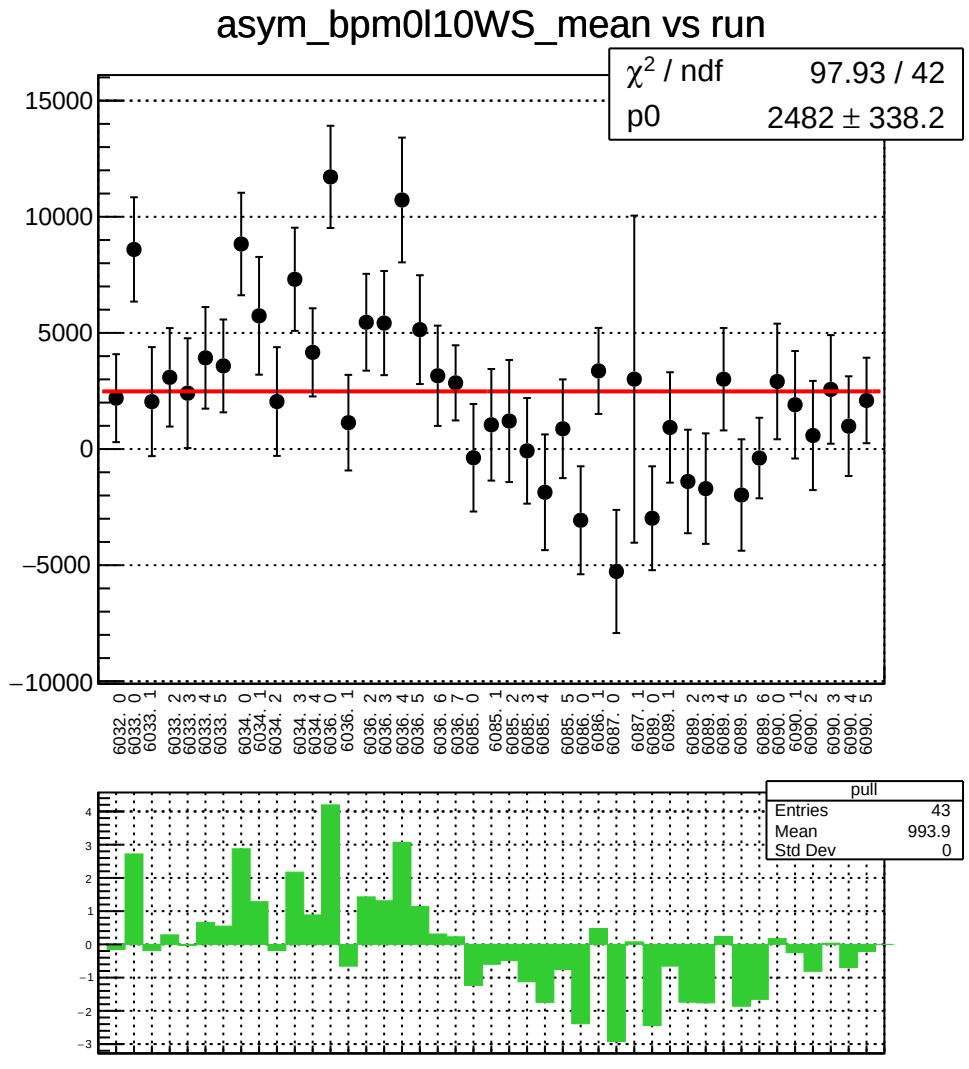

asym_bpm0l07WS_rms vs run
χ² / ndf 1.474e+04 / 42
p0 219 ± 0.2364
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

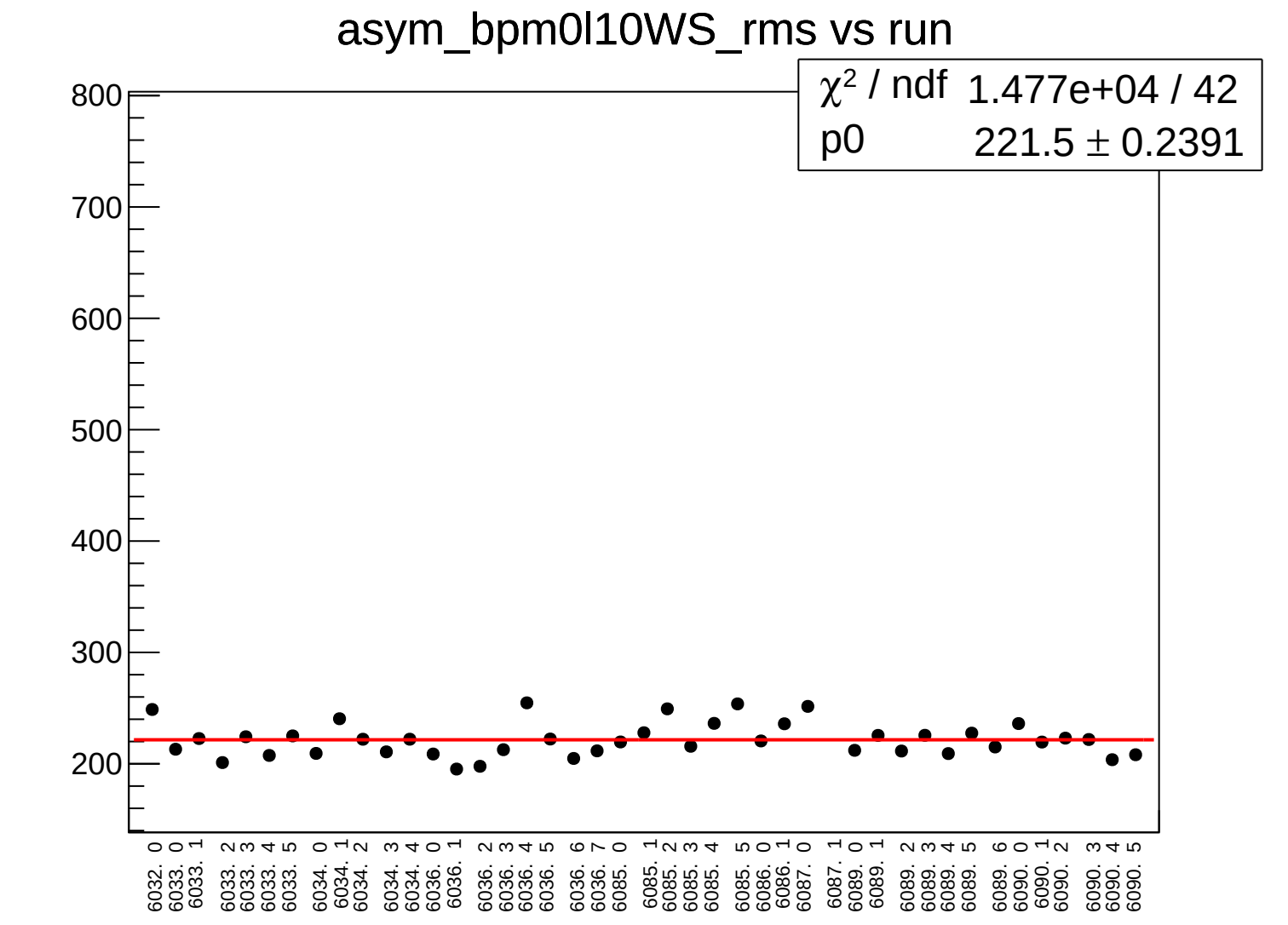

asym_bpm0l08WS_mean vs run
χ² / ndf 104.4 / 42
p0 2373 ± 333.5
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 970.2
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01078
Std Dev 1.558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

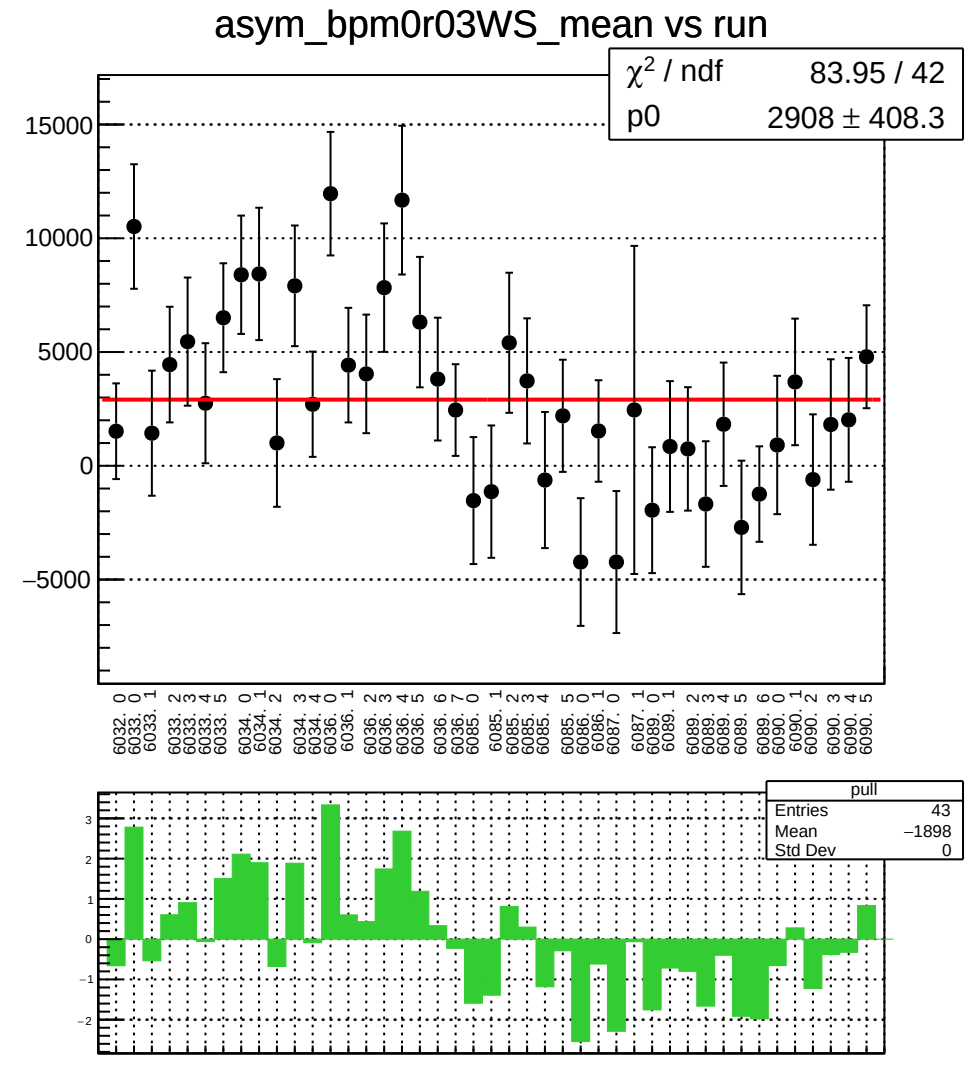

asym_bpm0l08WS_rms vs run
χ² / ndf 1.489e+04 / 42
p0 218.5 ± 0.2358
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

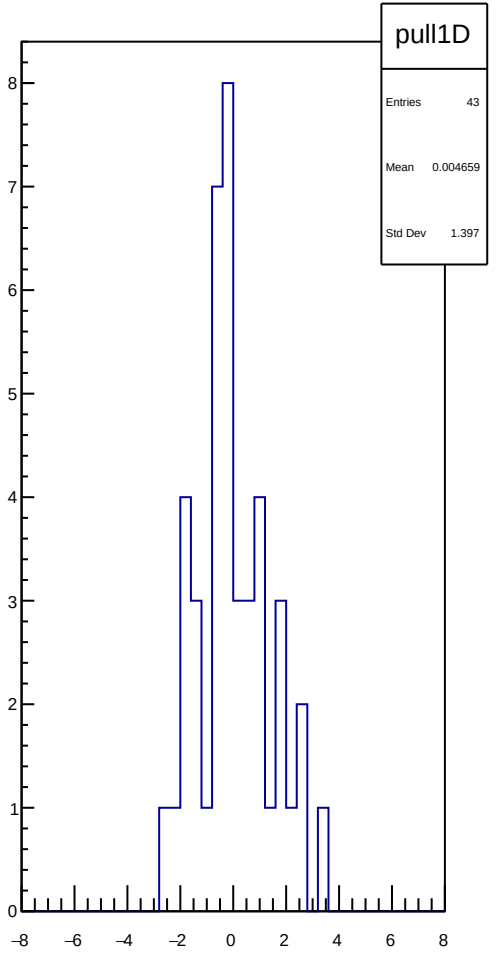

asym_bpm0l09WS_mean vs run
χ² / ndf 97.95 / 42
p0 2407 ± 335.7
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 918.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01093
Std Dev 1.509
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

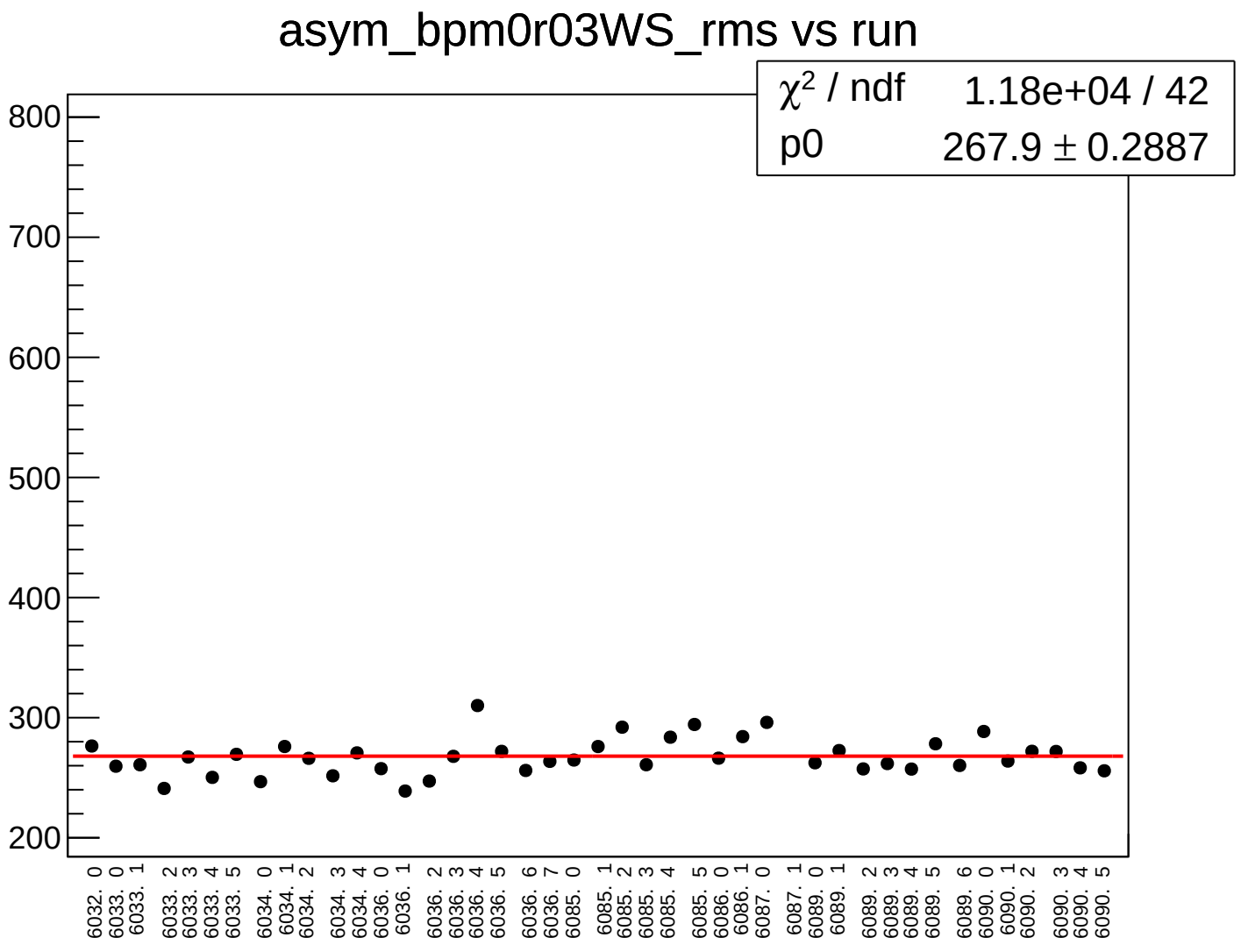

asym_bpm0l09WS_rms vs run
χ² / ndf 1.456e+04 / 42
p0 219.9 ± 0.2374
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

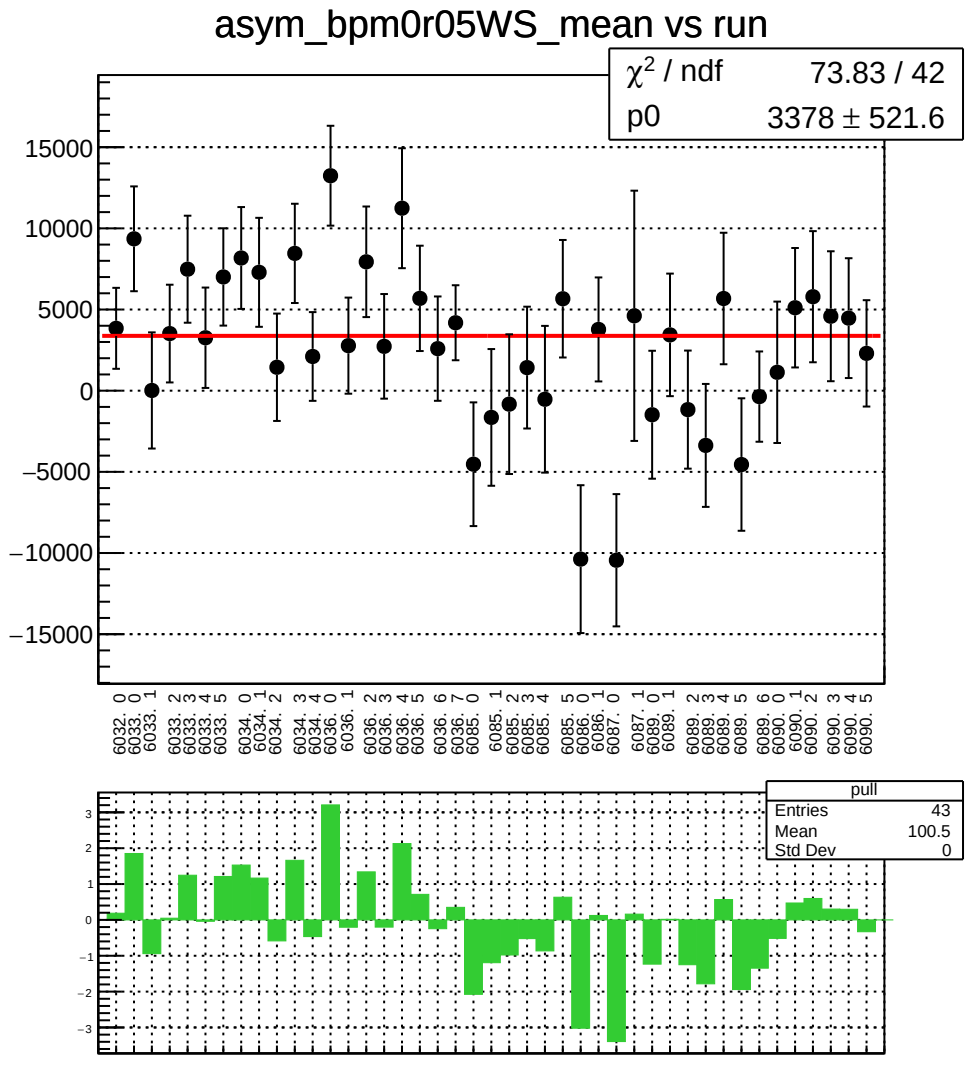

asym_bpm0l10WS_mean vs run
χ² / ndf 97.93 / 42
p0 2482 ± 338.2
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 993.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01002
Std Dev 1.509
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

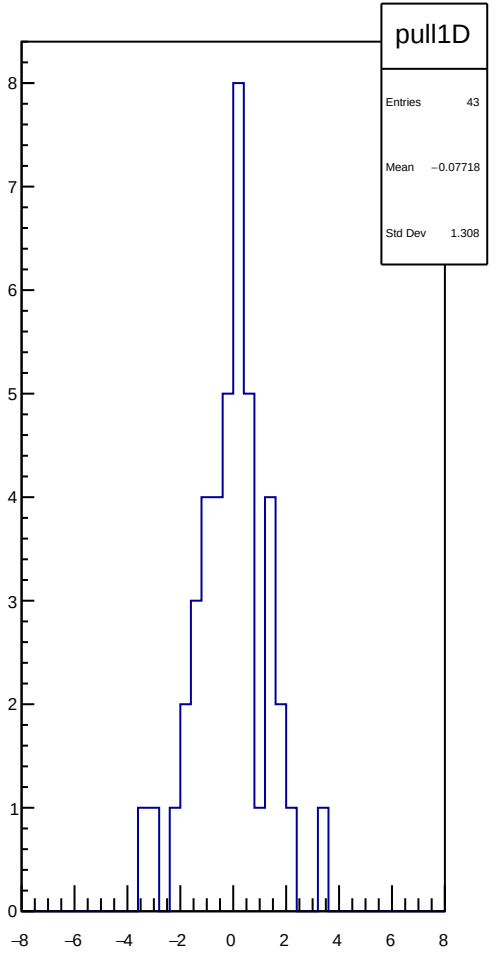

asym_bpm0l10WS_rms vs run
χ² / ndf 1.477e+04 / 42
p0 221.5 ± 0.2391
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

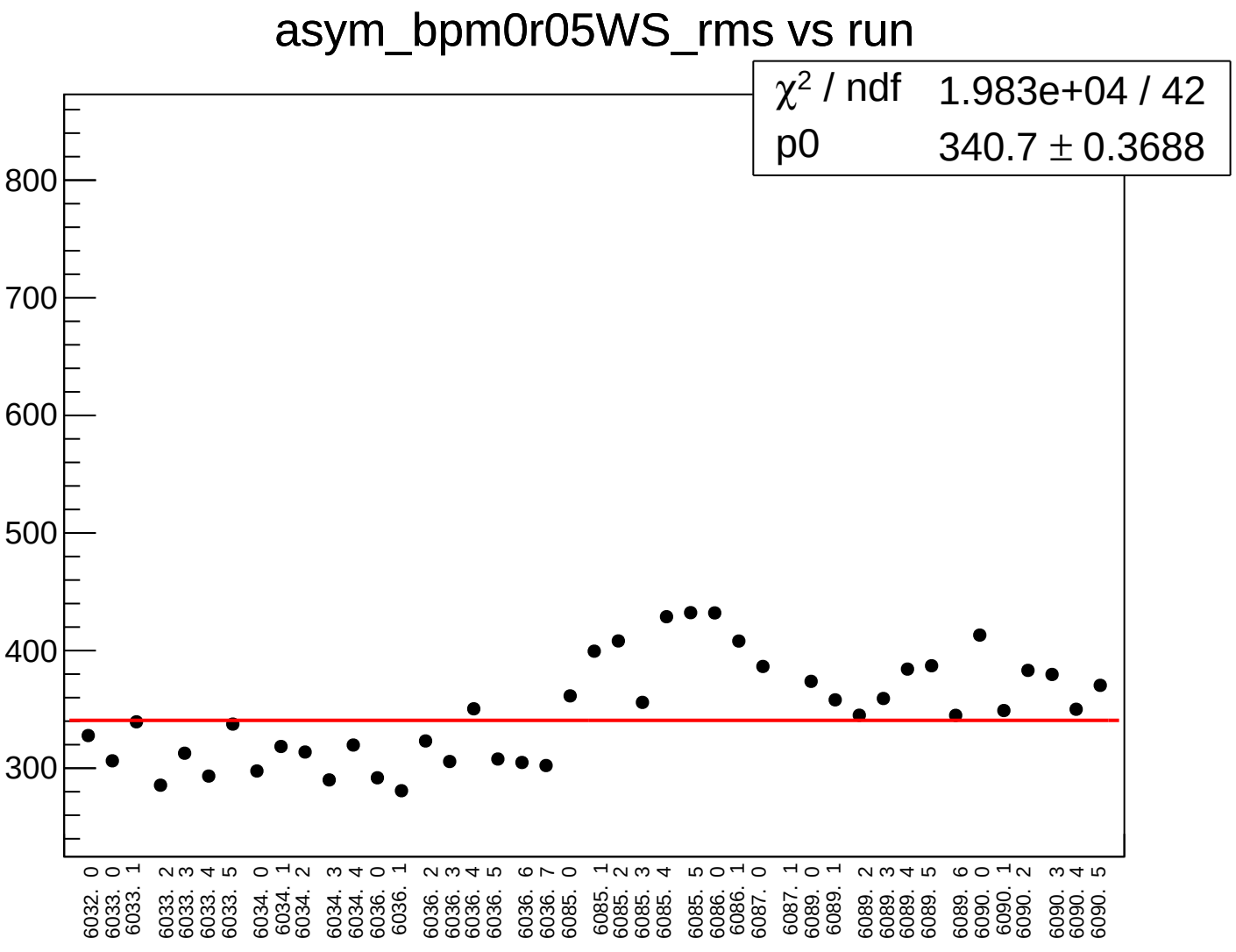

asym_bpm0r03WS_mean vs run
χ² / ndf 83.95 / 42
p0 2908 ± 408.3
15000
10000
5000
0
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1898
Std Dev 0
3
2
1
0
−1
−2

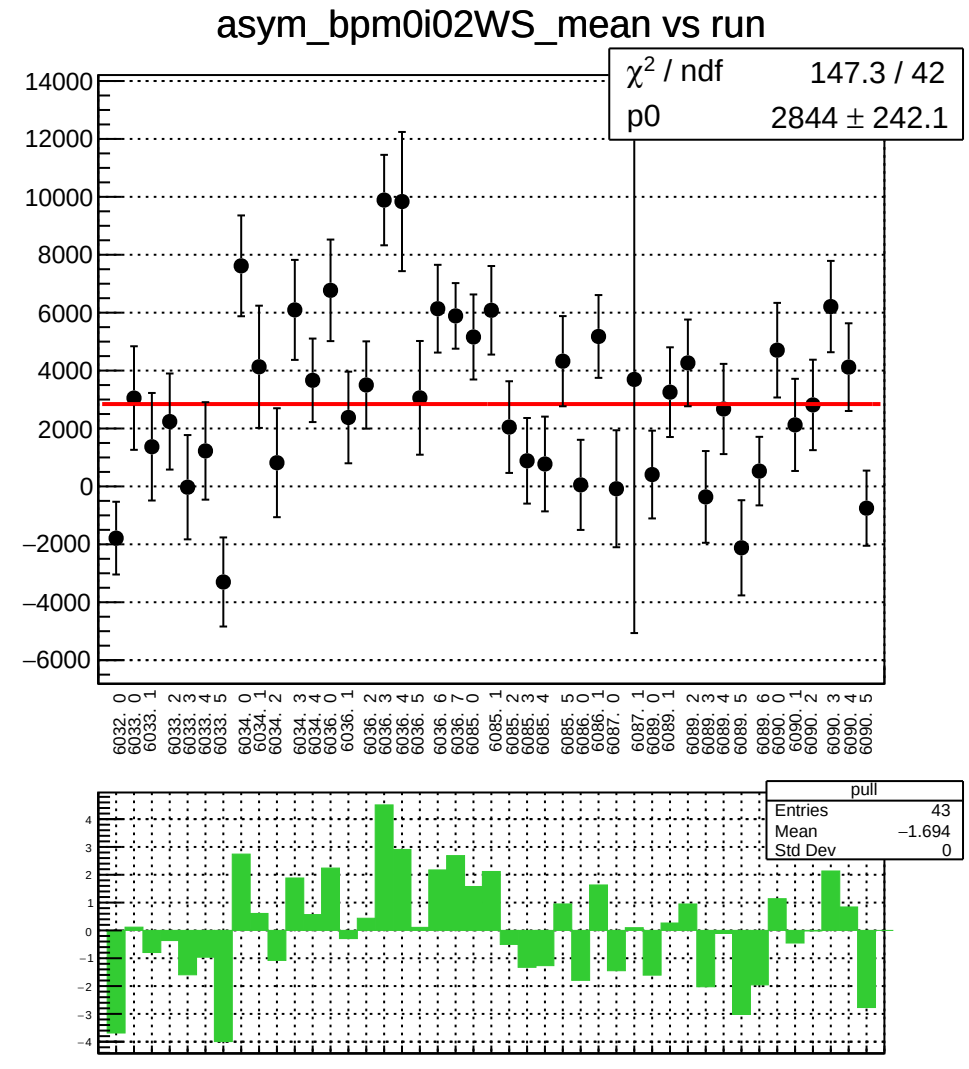

pull1D
Entries 43
Mean 0.004659
Std Dev 1.397
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

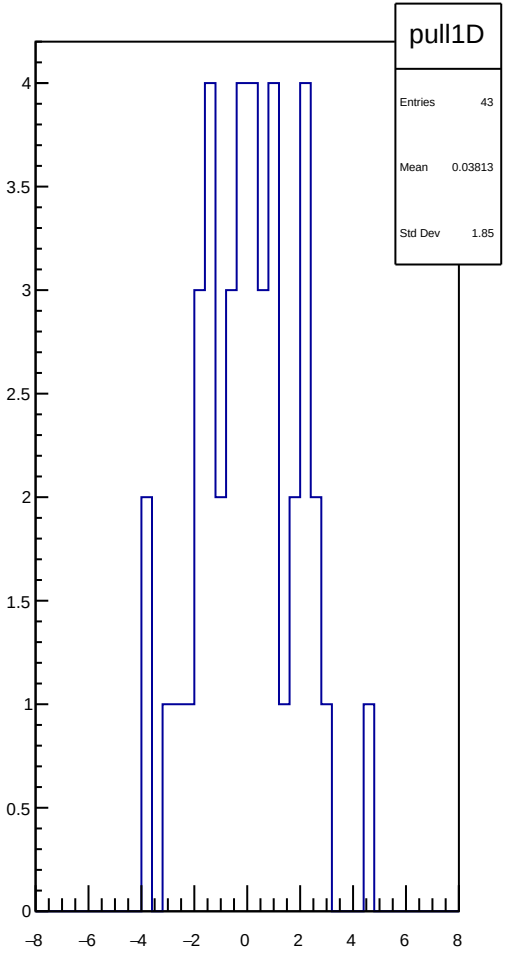

asym_bpm0r03WS_rms vs run
χ² / ndf 1.18e+04 / 42
p0 267.9 ± 0.2887
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

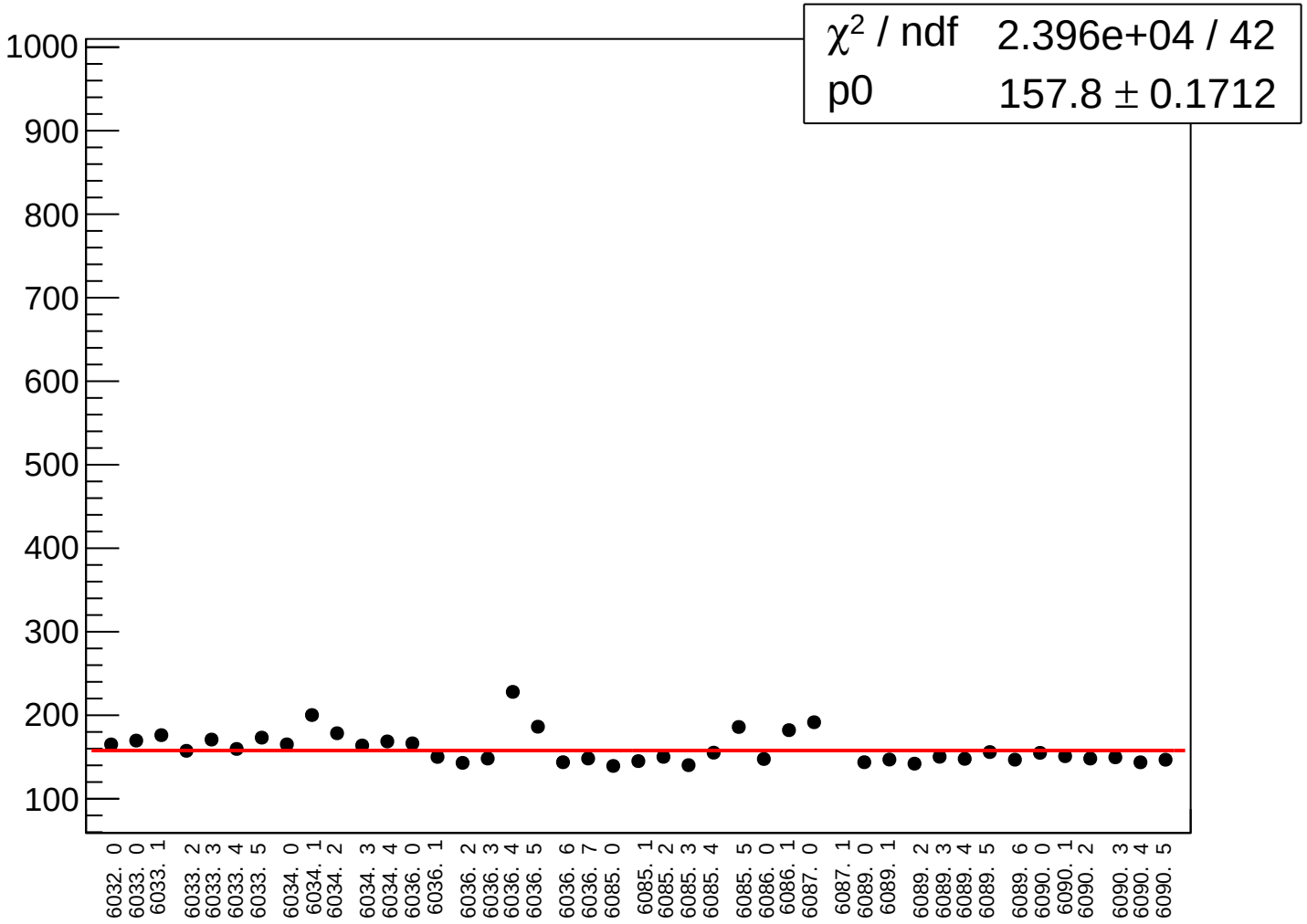

asym_bpm0r05WS_mean vs run
χ² / ndf 73.83 / 42
p0 3378 ± 521.6
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 100.5
Std Dev 0
3
2
1
0
−1
−2
−3

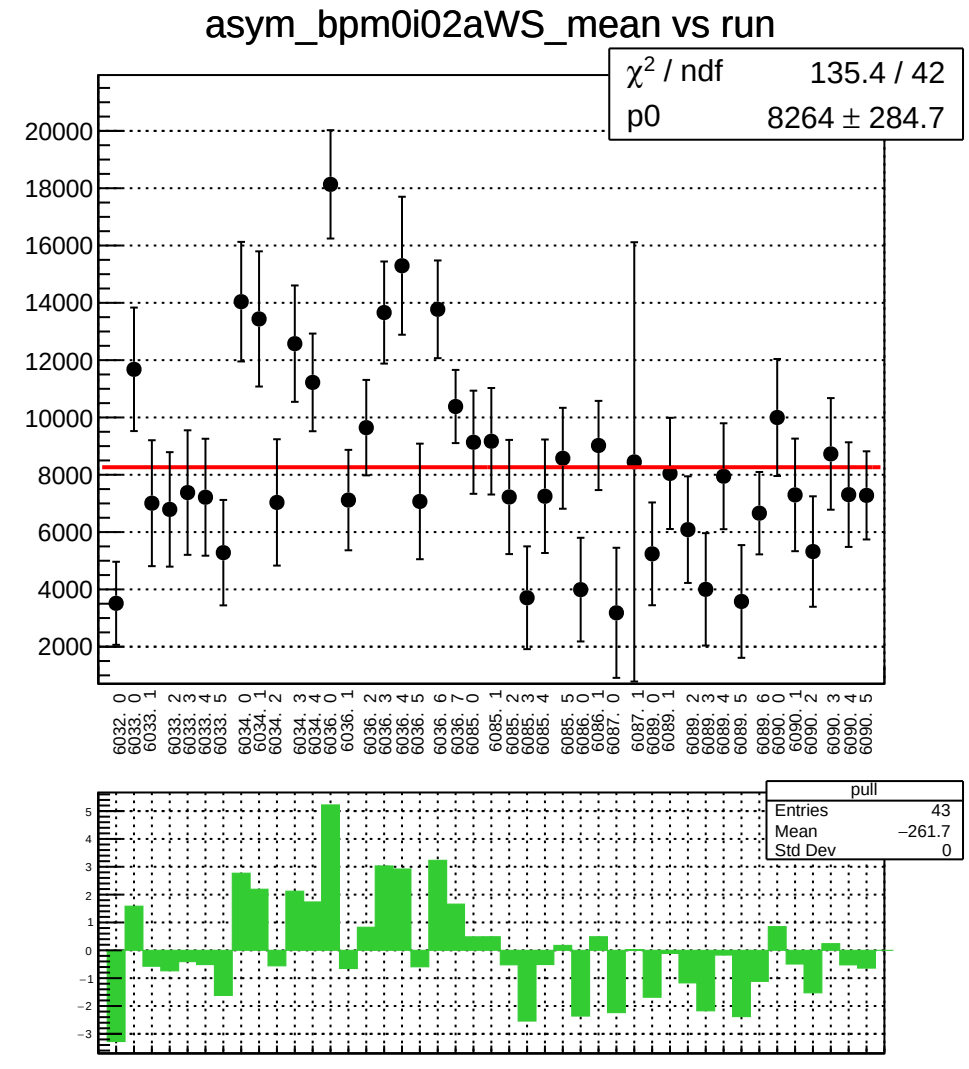

pull1D
Entries 43
Mean −0.07718
Std Dev 1.308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

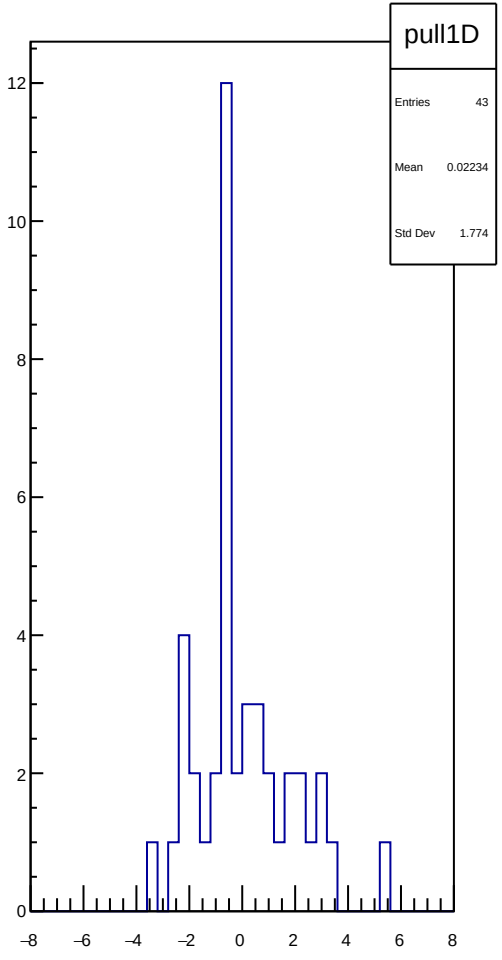

asym_bpm0r05WS_rms vs run
χ² / ndf 1.983e+04 / 42
p0 340.7 ± 0.3688
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

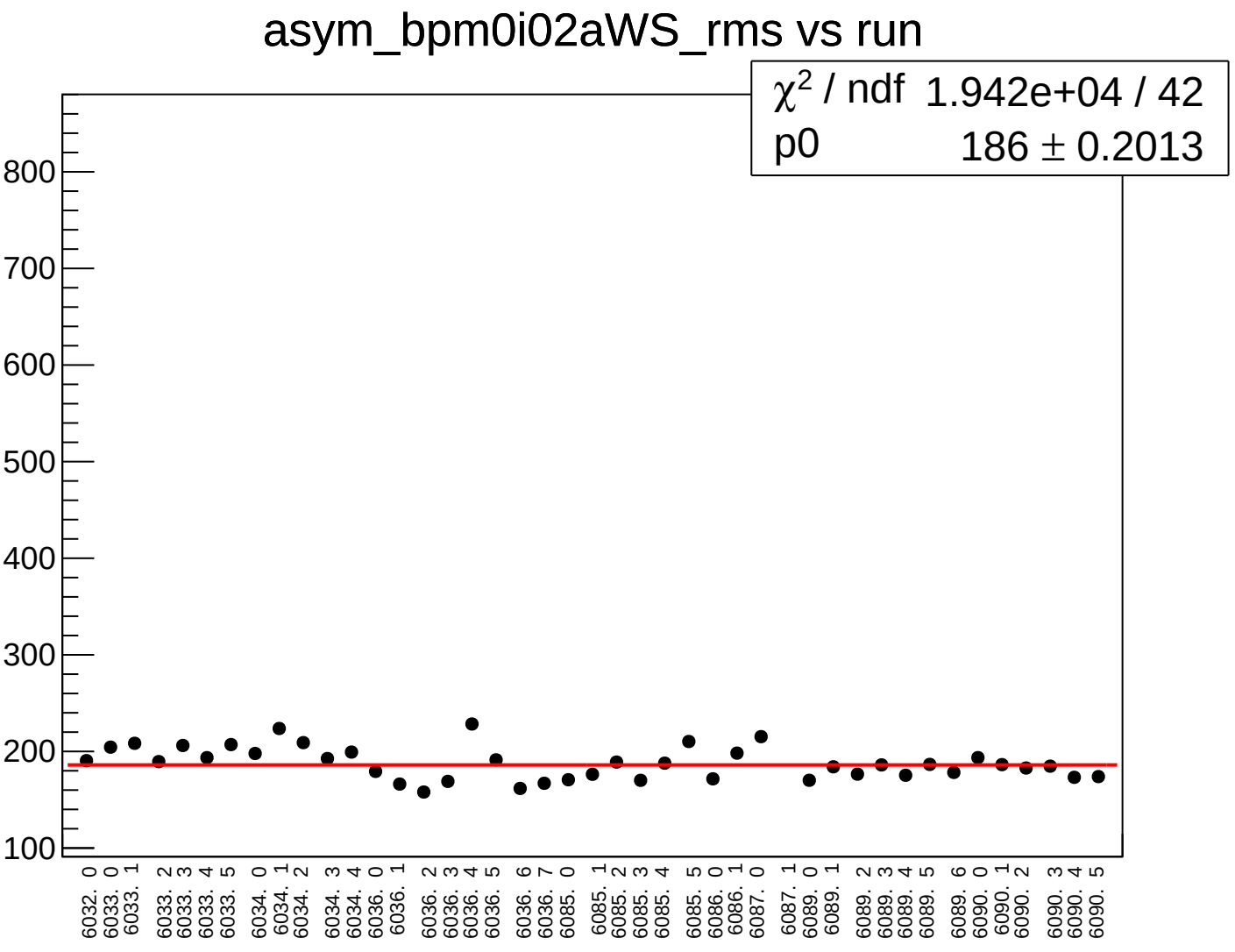

asym_bpm0i02WS_mean vs run
χ² / ndf 147.3 / 42
p0 2844 ± 242.1
pull
Entries 43
Mean −1.694
Std Dev 0

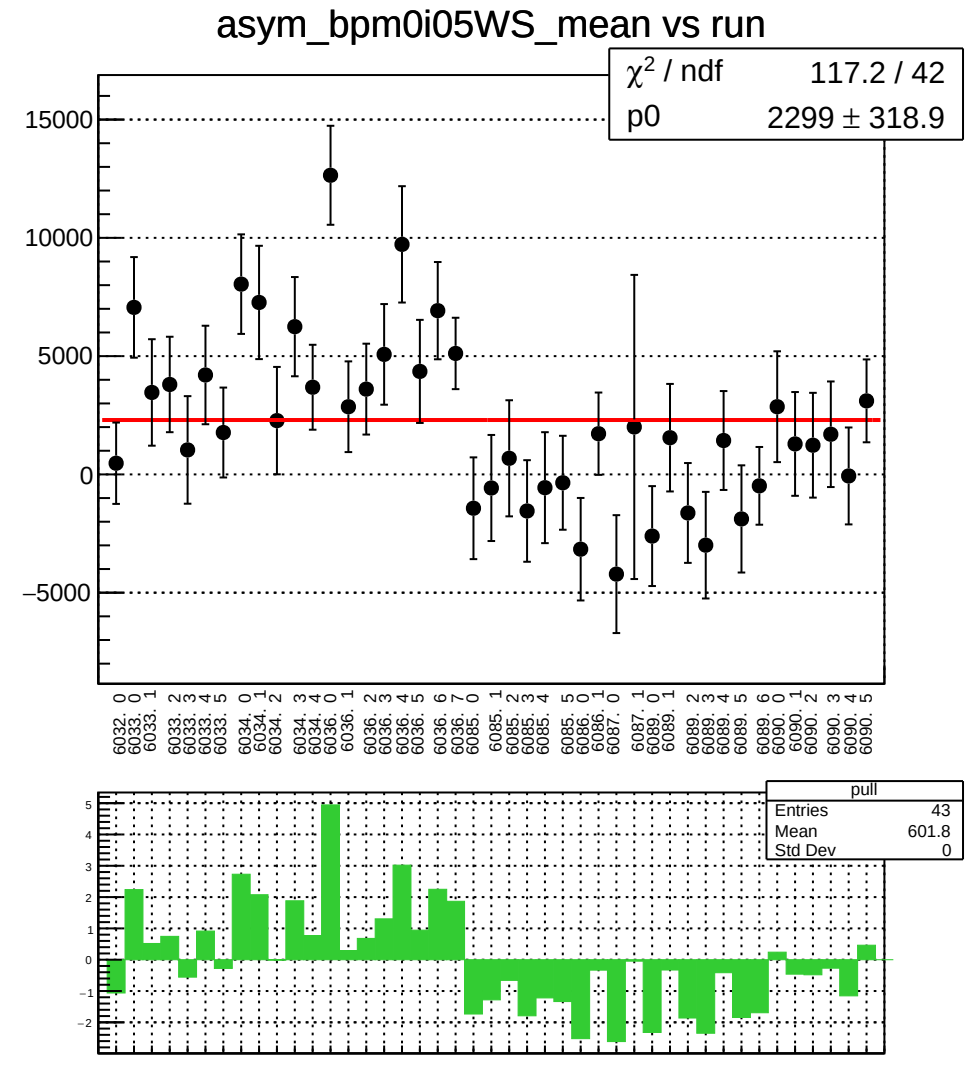

pull1D
Entries 43
Mean 0.03813
Std Dev 1.85

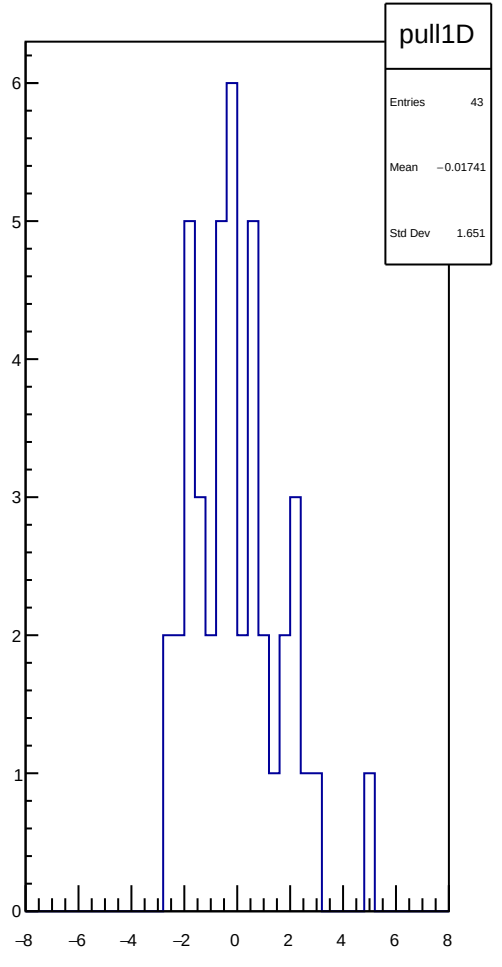

asym_bpm0i02WS_rms vs run
χ² / ndf 2.396e+04 / 42
p0 157.8 ± 0.1712
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

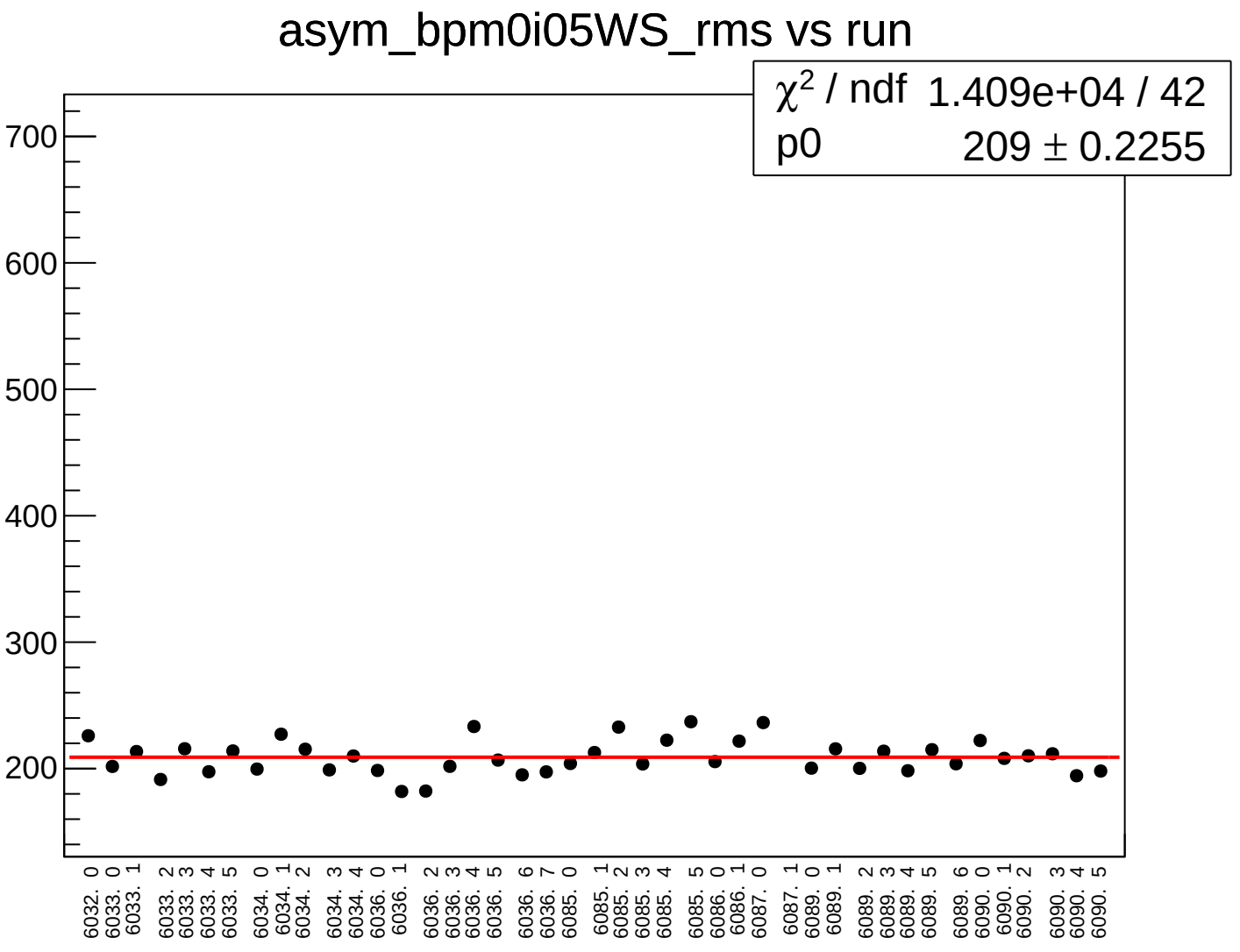

asym_bpm0i02aWS_mean vs run
χ² / ndf 135.4 / 42
p0 8264 ± 284.7
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −261.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

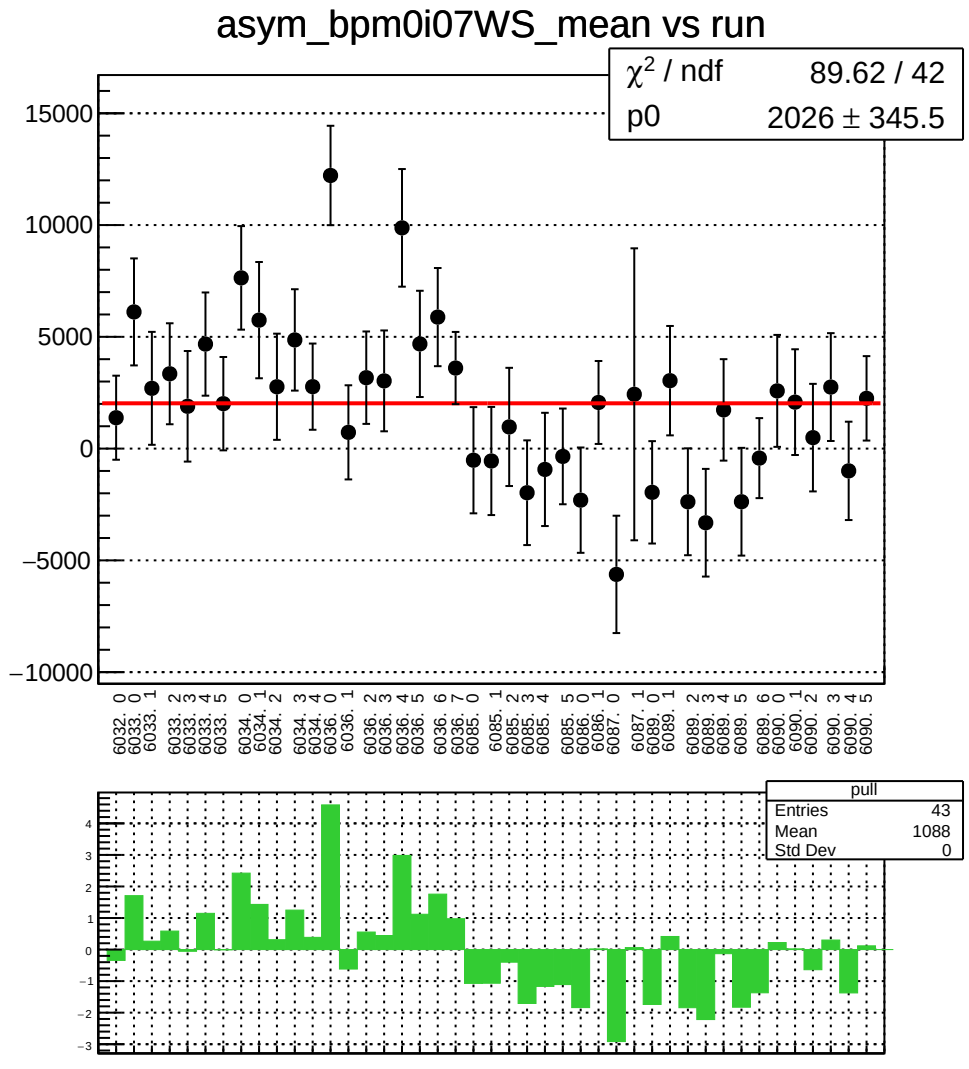

pull1D
Entries 43
Mean 0.02234
Std Dev 1.774
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

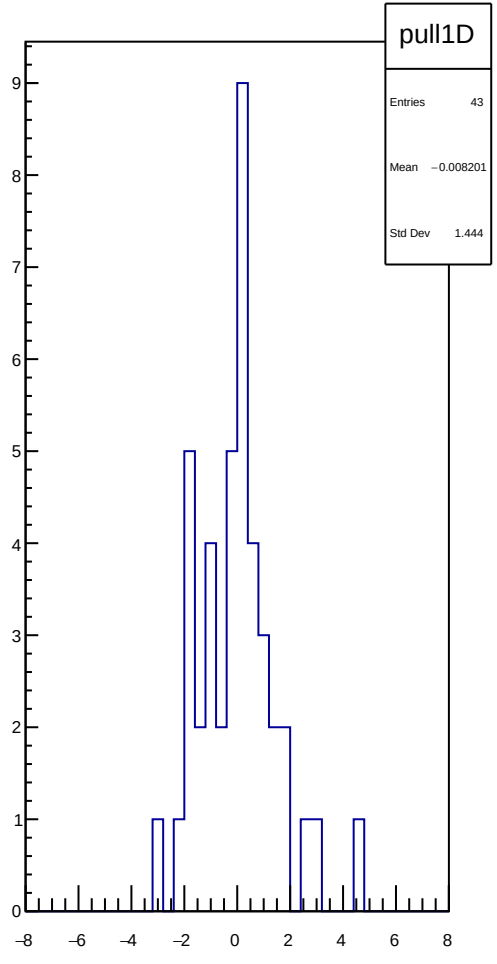

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.942e+04 / 42
p0 186 ± 0.2013
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

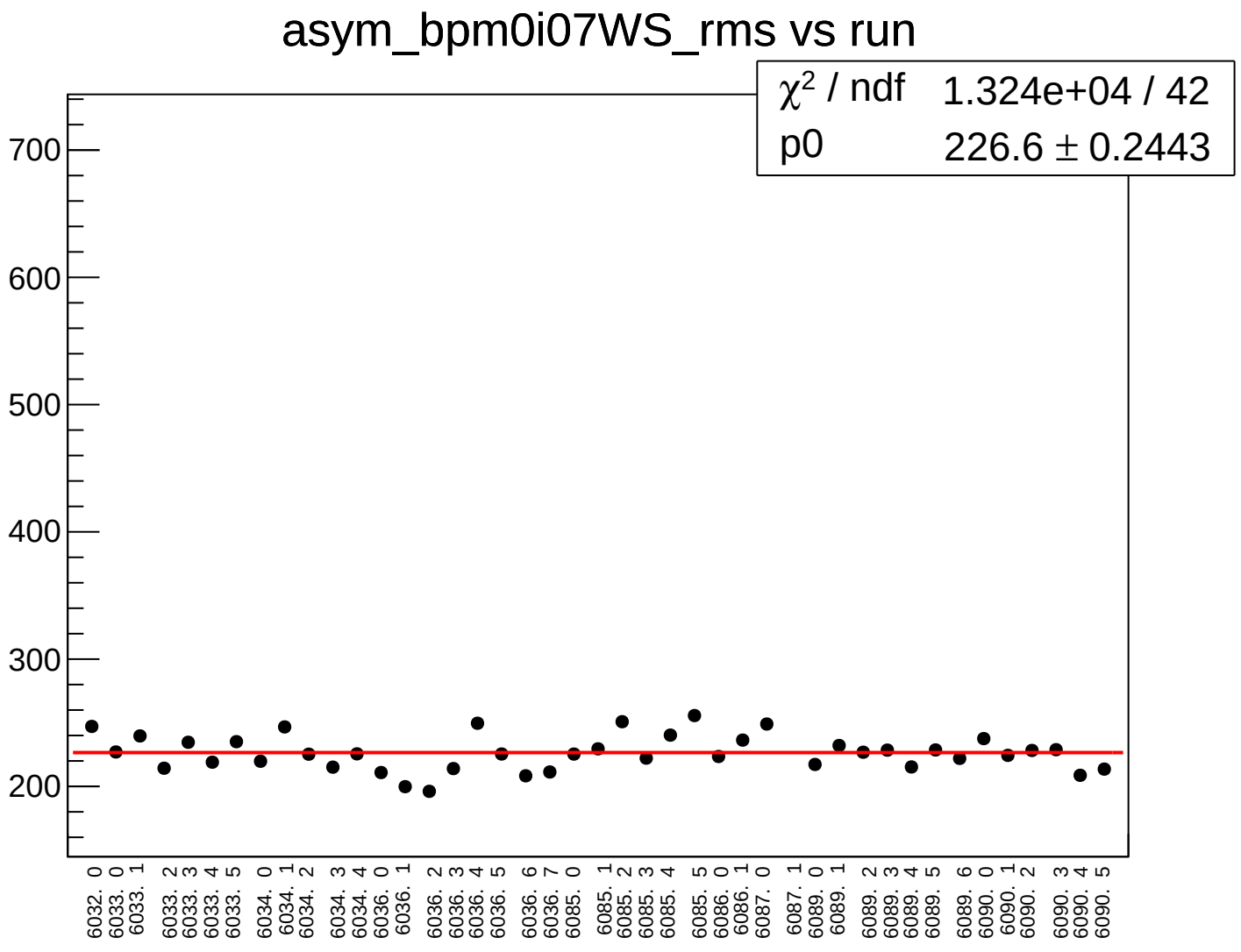

asym_bpm0i05WS_mean vs run
χ² / ndf 117.2 / 42
p0 2299 ± 318.9
15000
10000
5000
0
−5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 601.8
Std Dev 0
5
4
3
2
1
0
−1
−2

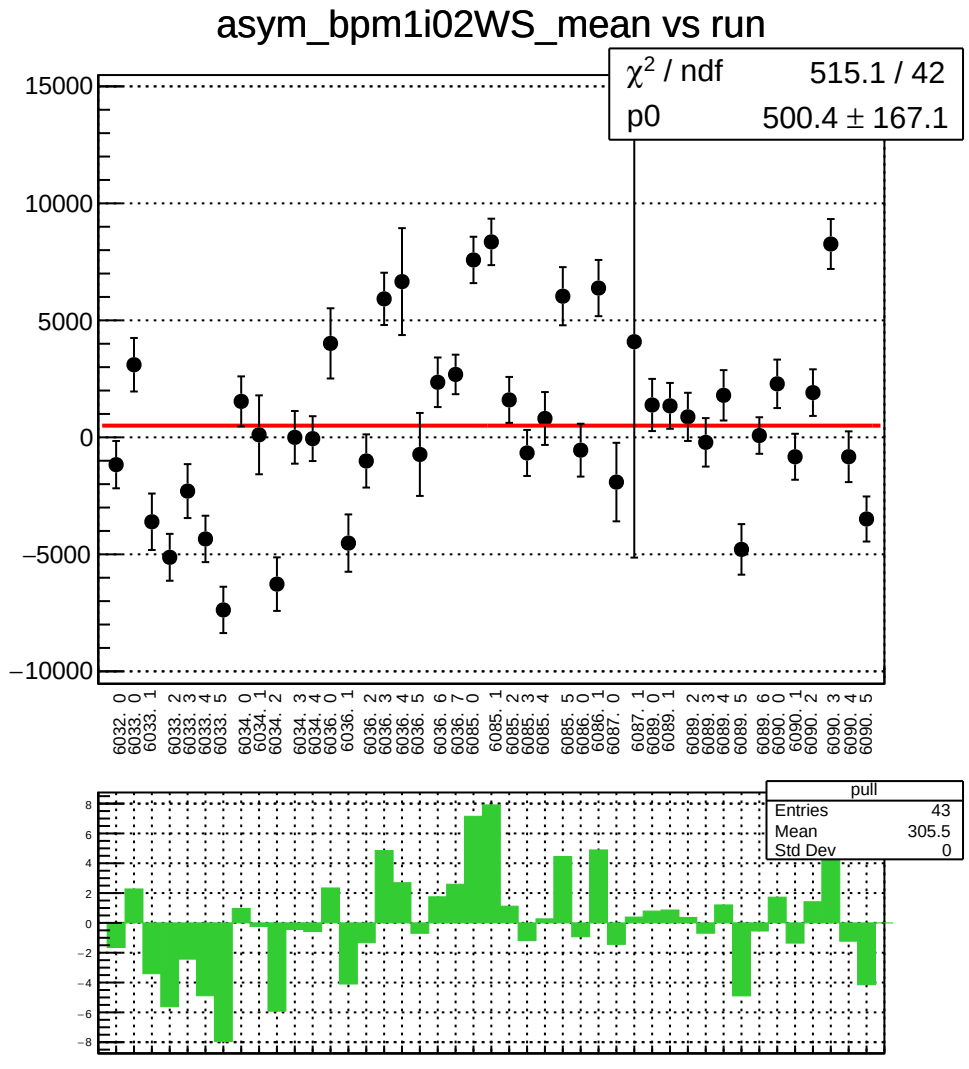

pull1D
Entries 43
Mean −0.01741
Std Dev 1.651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

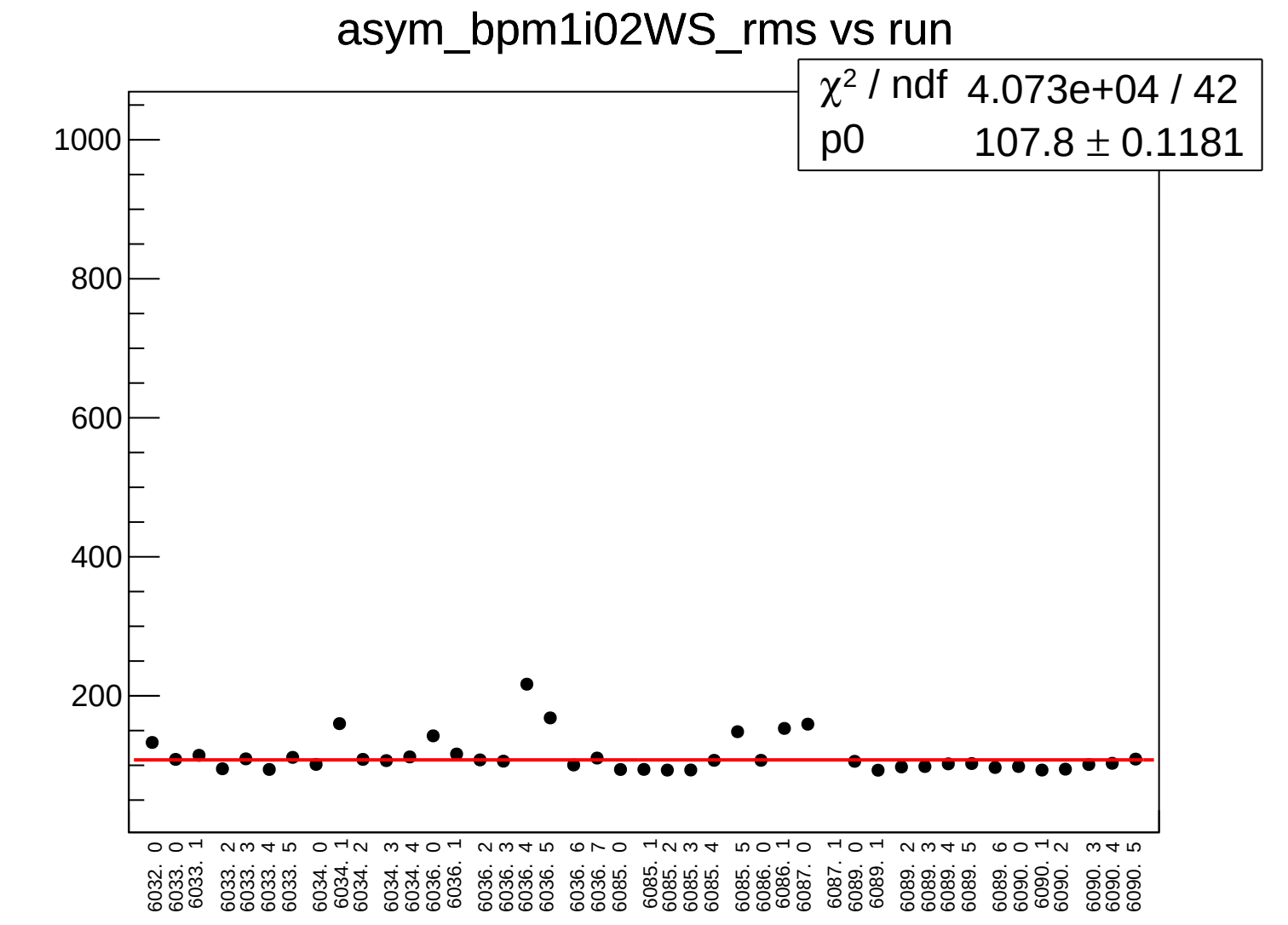

asym_bpm0i05WS_rms vs run
χ² / ndf 1.409e+04 / 42
p0 209 ± 0.2255
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

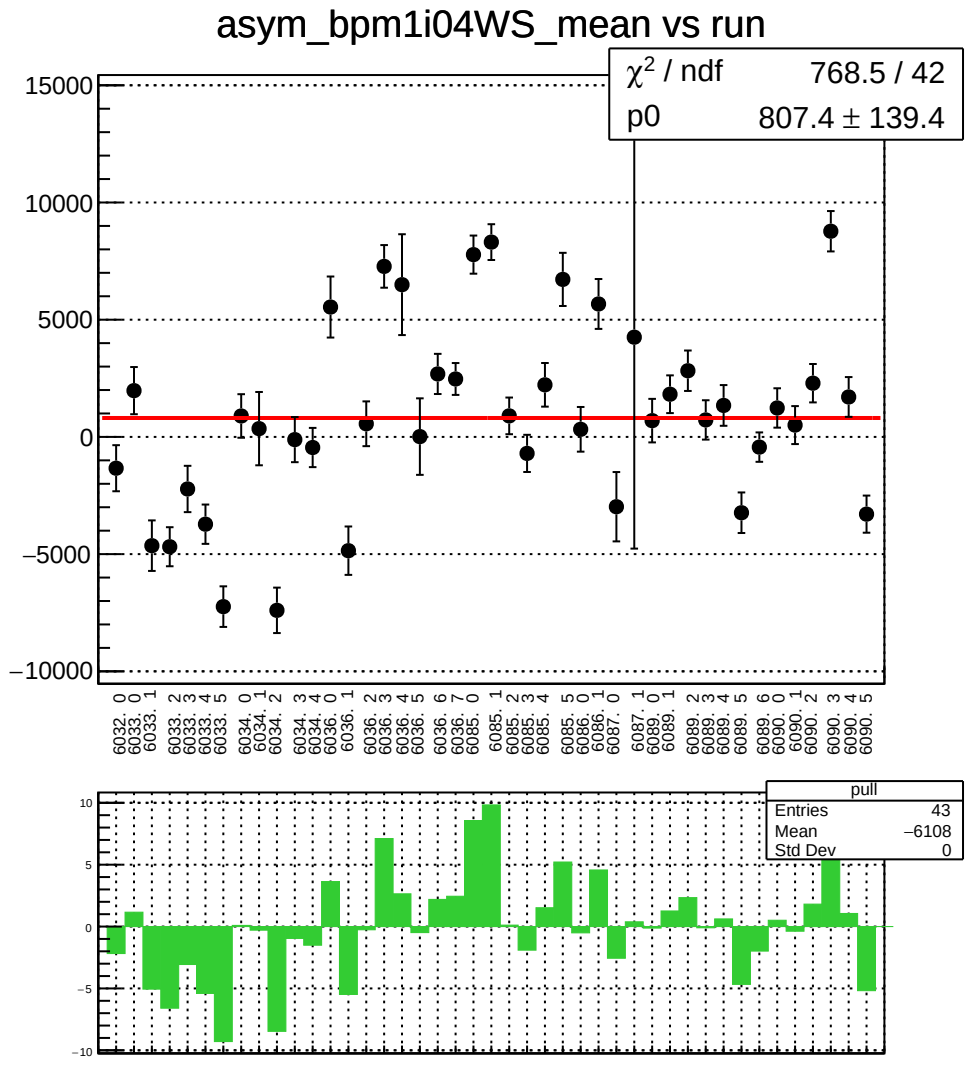

asym_bpm0i07WS_mean vs run
χ² / ndf 89.62 / 42
p0 2026 ± 345.5
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1088
Std Dev 0
4
3
2
1
0
−1
−2
−3

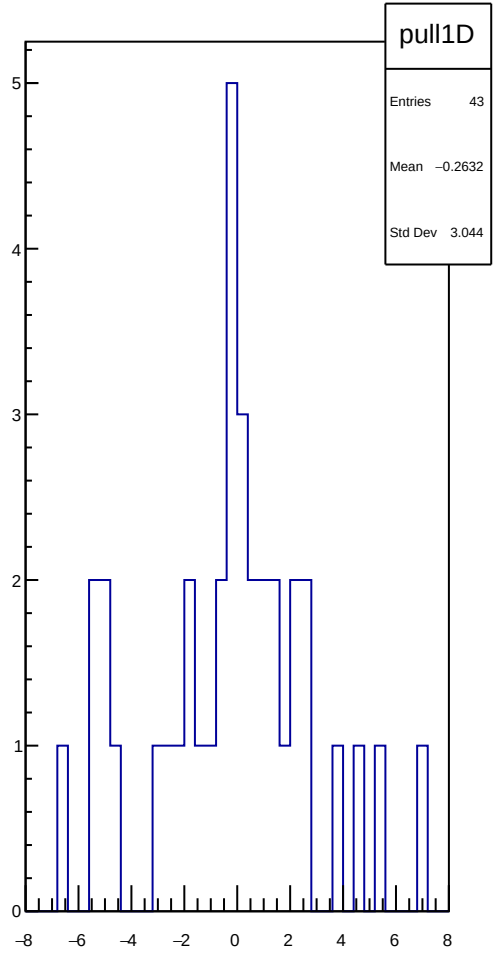

pull1D
Entries 43
Mean −0.008201
Std Dev 1.444
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

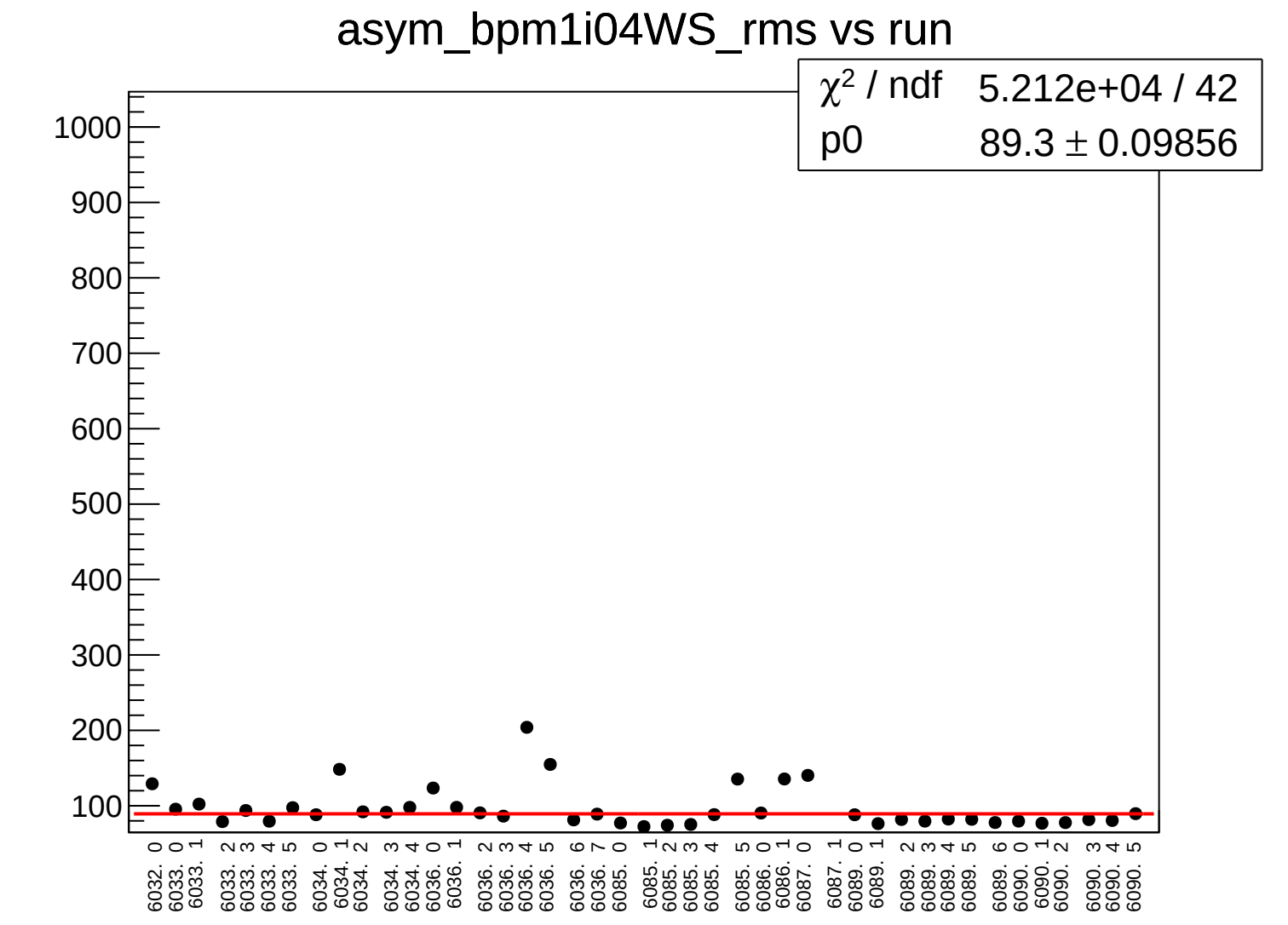

asym_bpm0i07WS_rms vs run
χ² / ndf 1.324e+04 / 42
p0 226.6 ± 0.2443
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

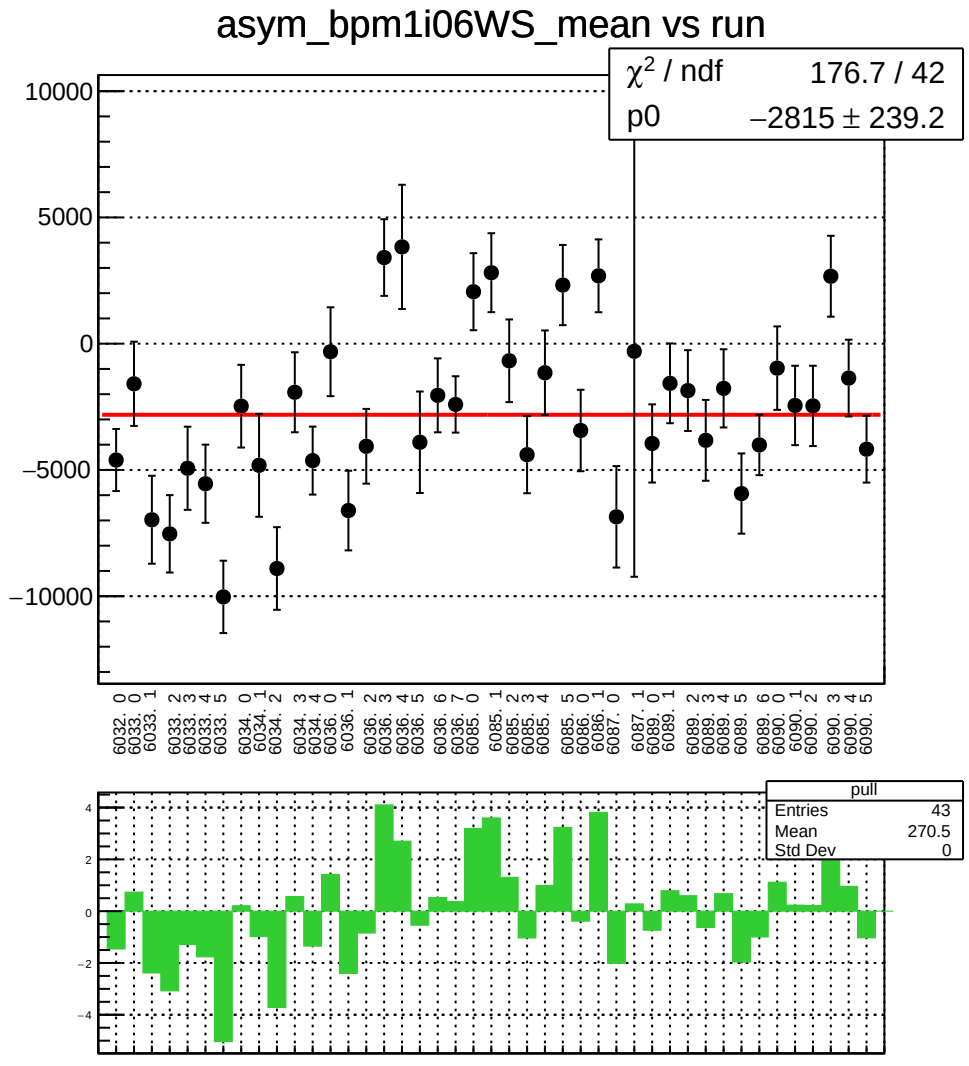

asym_bpm1i02WS_mean vs run
χ² / ndf 515.1 / 42
p0 500.4 ± 167.1
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 305.5
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 43
Mean 0.03857
Std Dev 3.461
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

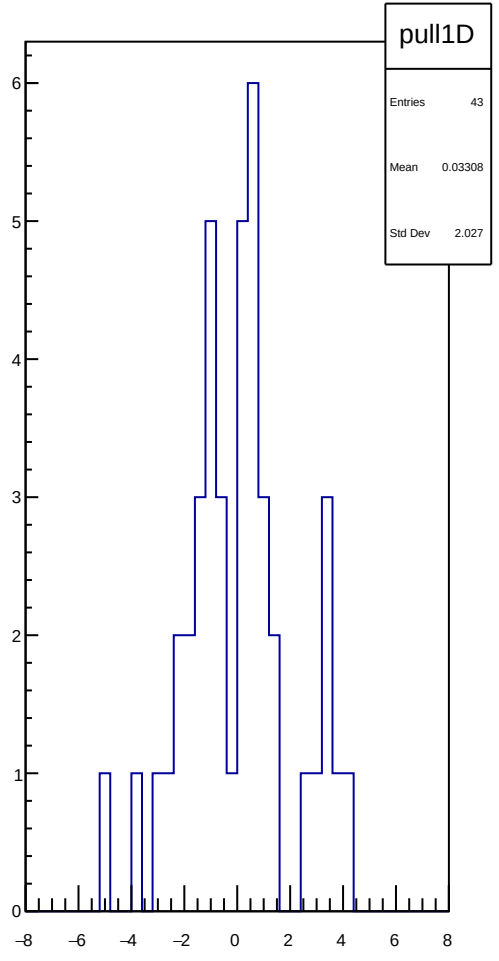

asym_bpm1i02WS_rms vs run
χ² / ndf 4.073e+04 / 42
p0 107.8 ± 0.1181
1000
800
600
400
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

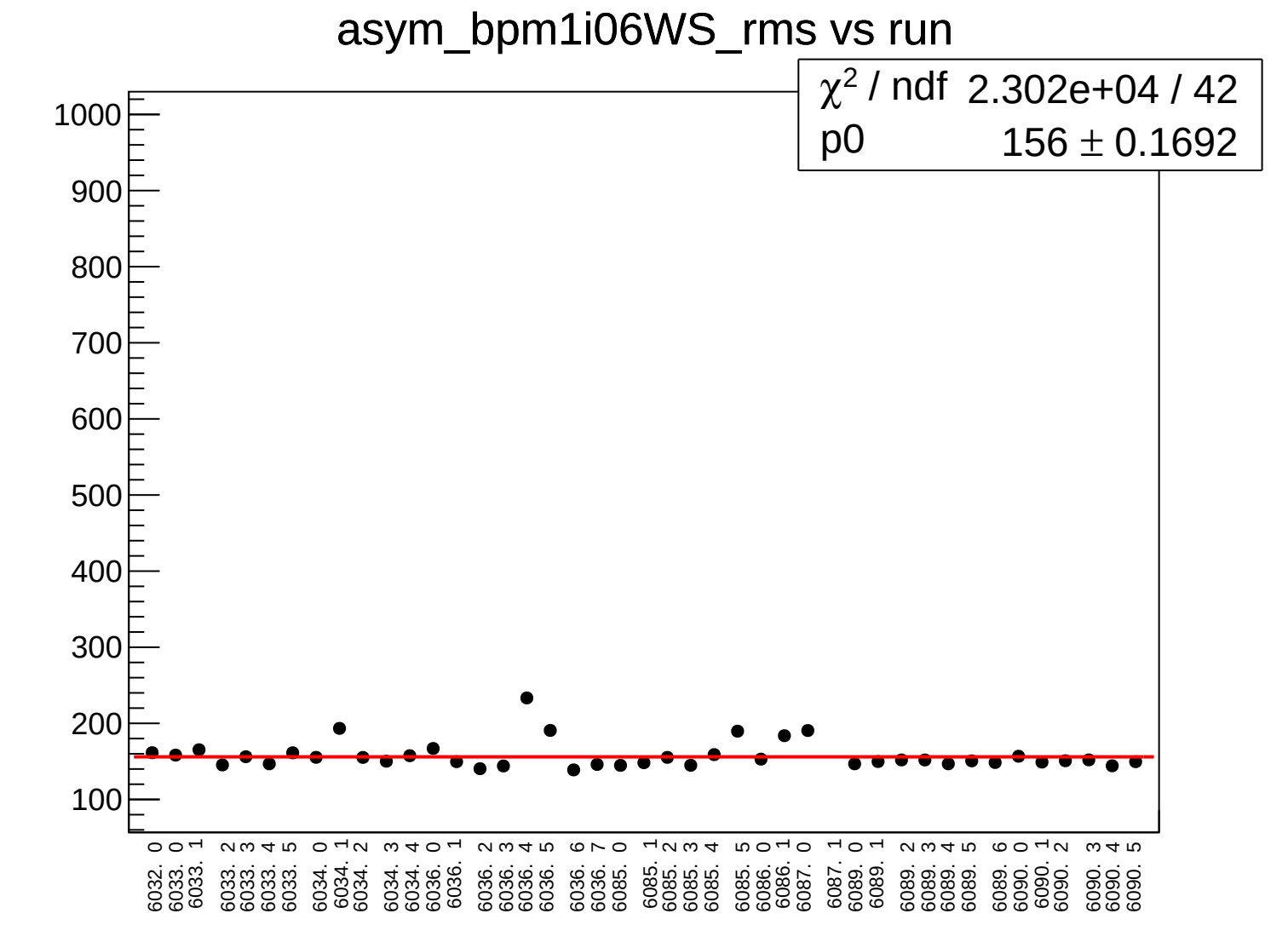

asym_bpm1i04WS_mean vs run
χ² / ndf 768.5 / 42
p0 807.4 ± 139.4
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6108
Std Dev 0
10
5
0
−5
−10

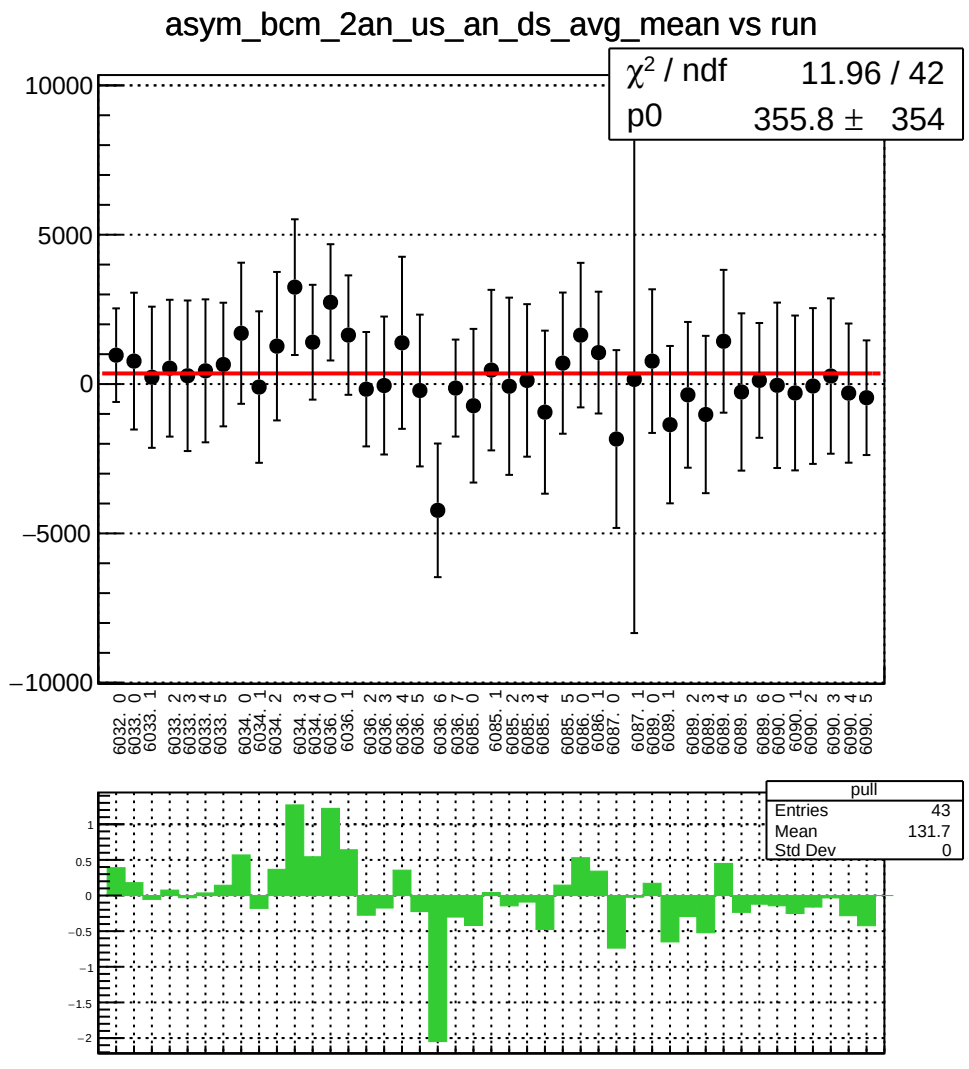

pull1D
Entries 43
Mean −0.2632
Std Dev 3.044
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

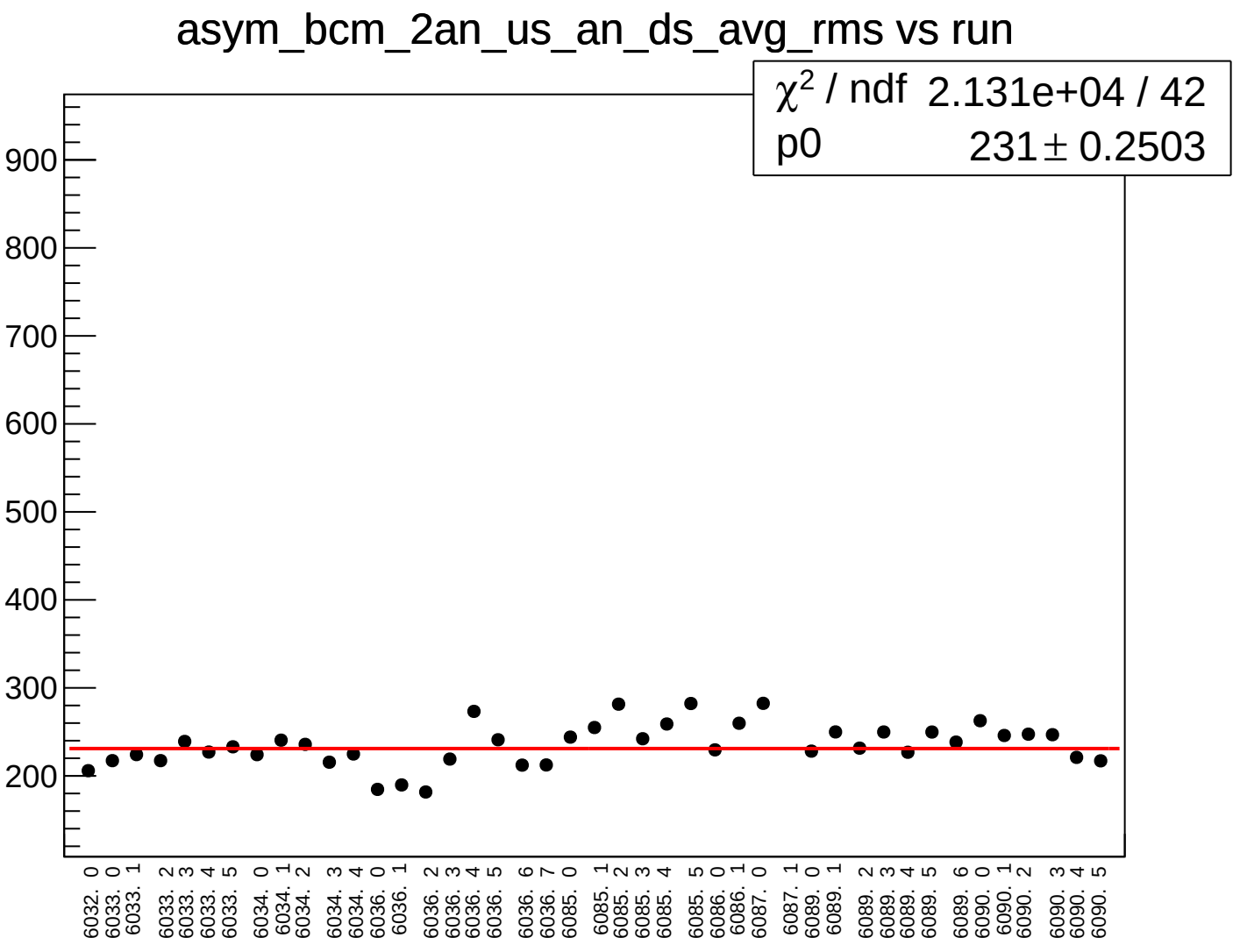

asym_bpm1i04WS_rms vs run
χ^2 / ndf 5.212e+04 / 42
p0 89.3 ± 0.09856
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

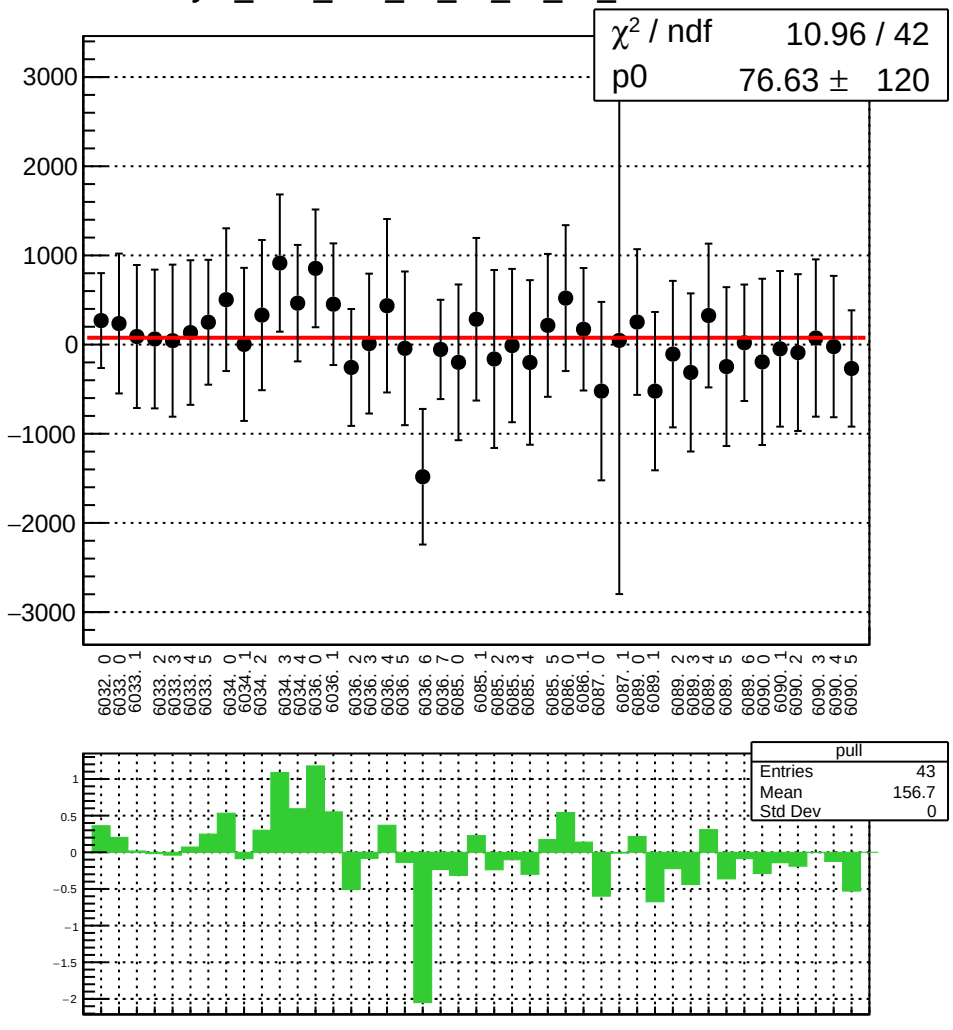

asym_bpm1i06WS_mean vs run
χ² / ndf 176.7 / 42
p0 −2815 ± 239.2
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 270.5
Std Dev 0
4
2
0
−2
−4

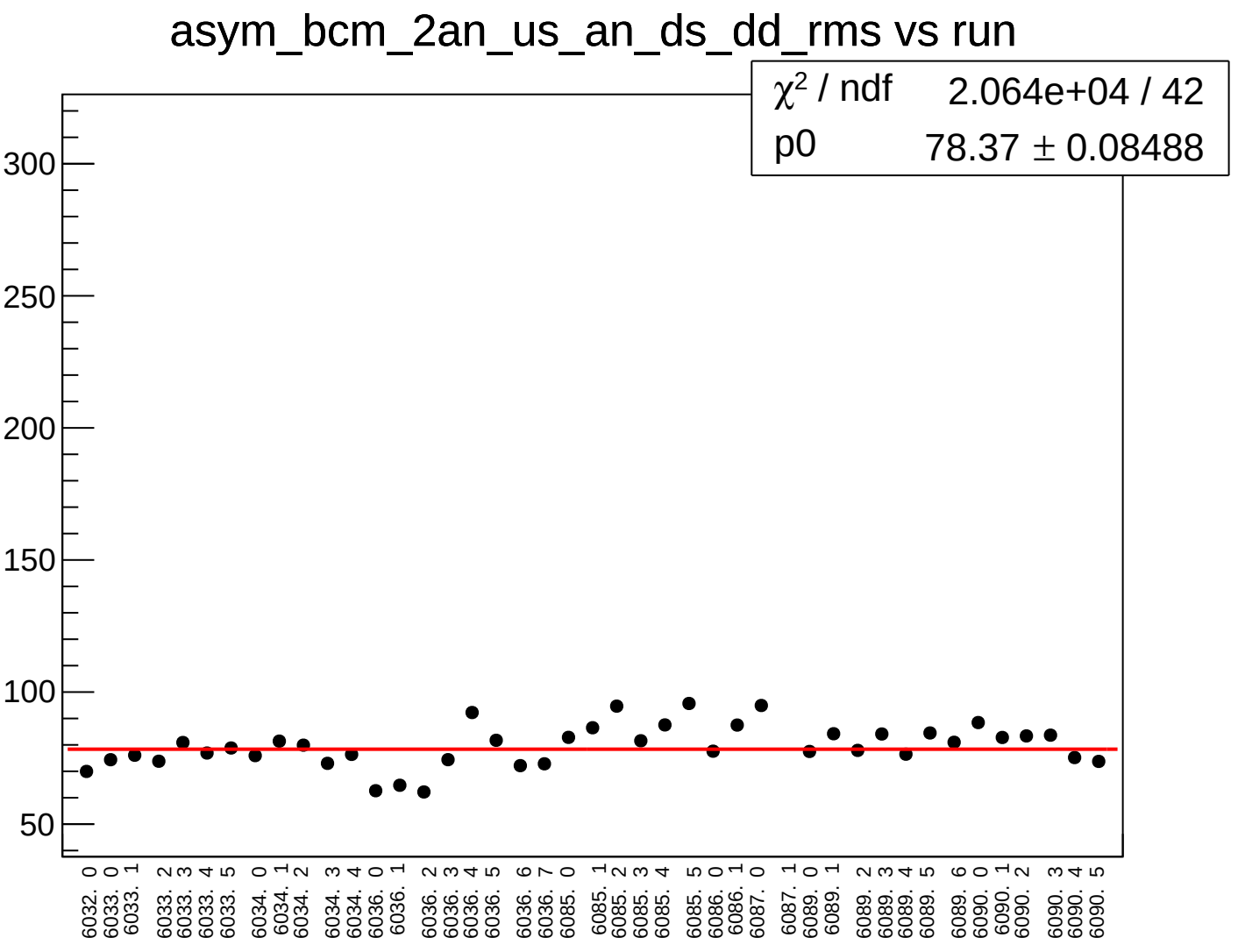

pull1D
Entries 43
Mean 0.03308
Std Dev 2.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

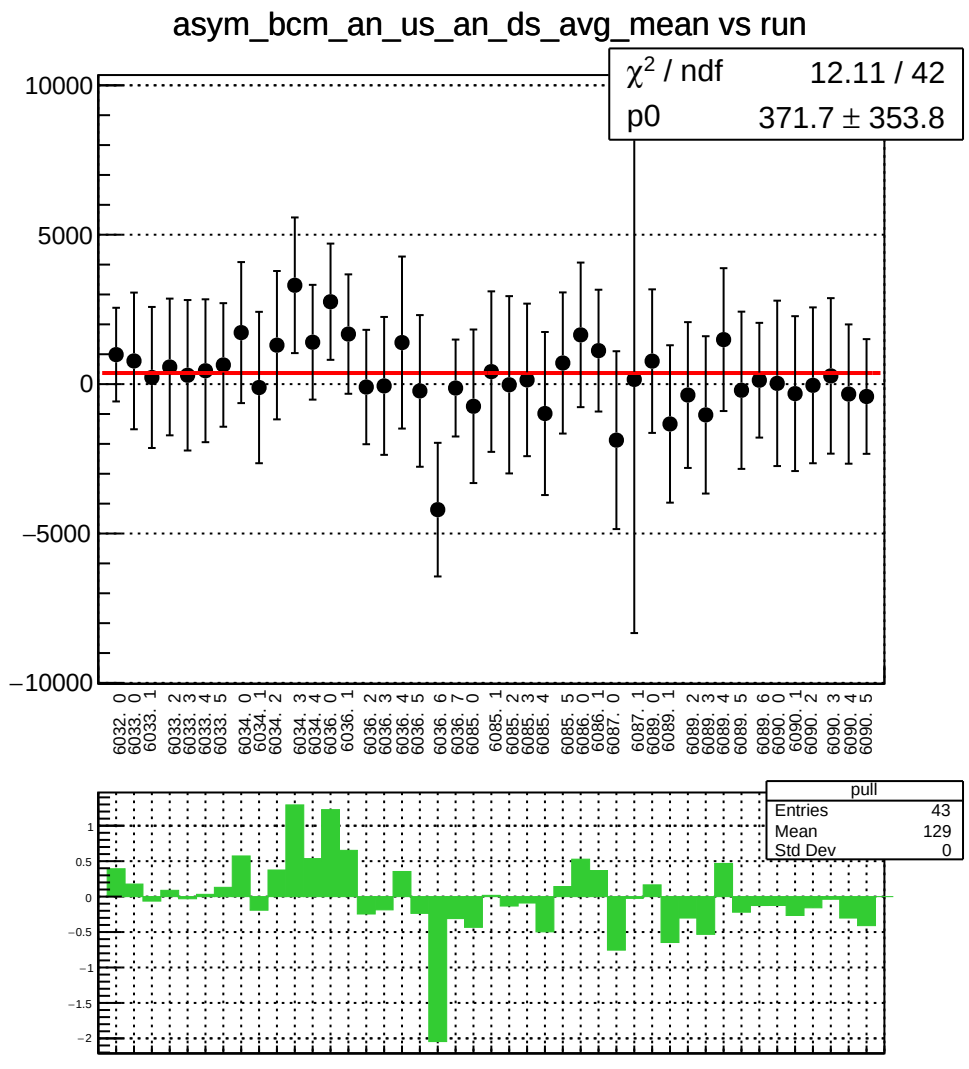

asym_bpm1i06WS_rms vs run
χ^2 / ndf 2.302e+04 / 42
p0 156 ± 0.1692
1000
900
800
700
600
500
400
300
200
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

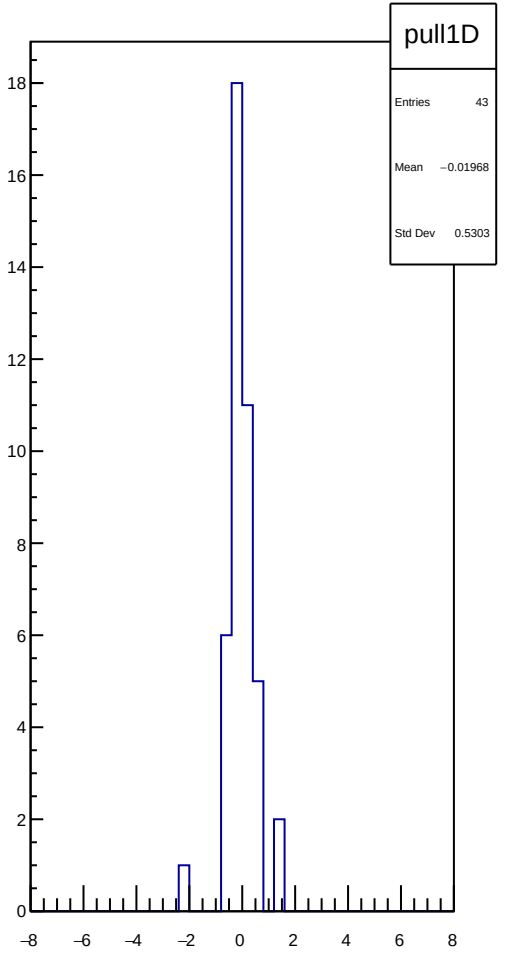

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 11.96 / 42
p0 355.8 ± 354
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 131.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01919
Std Dev 0.5269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

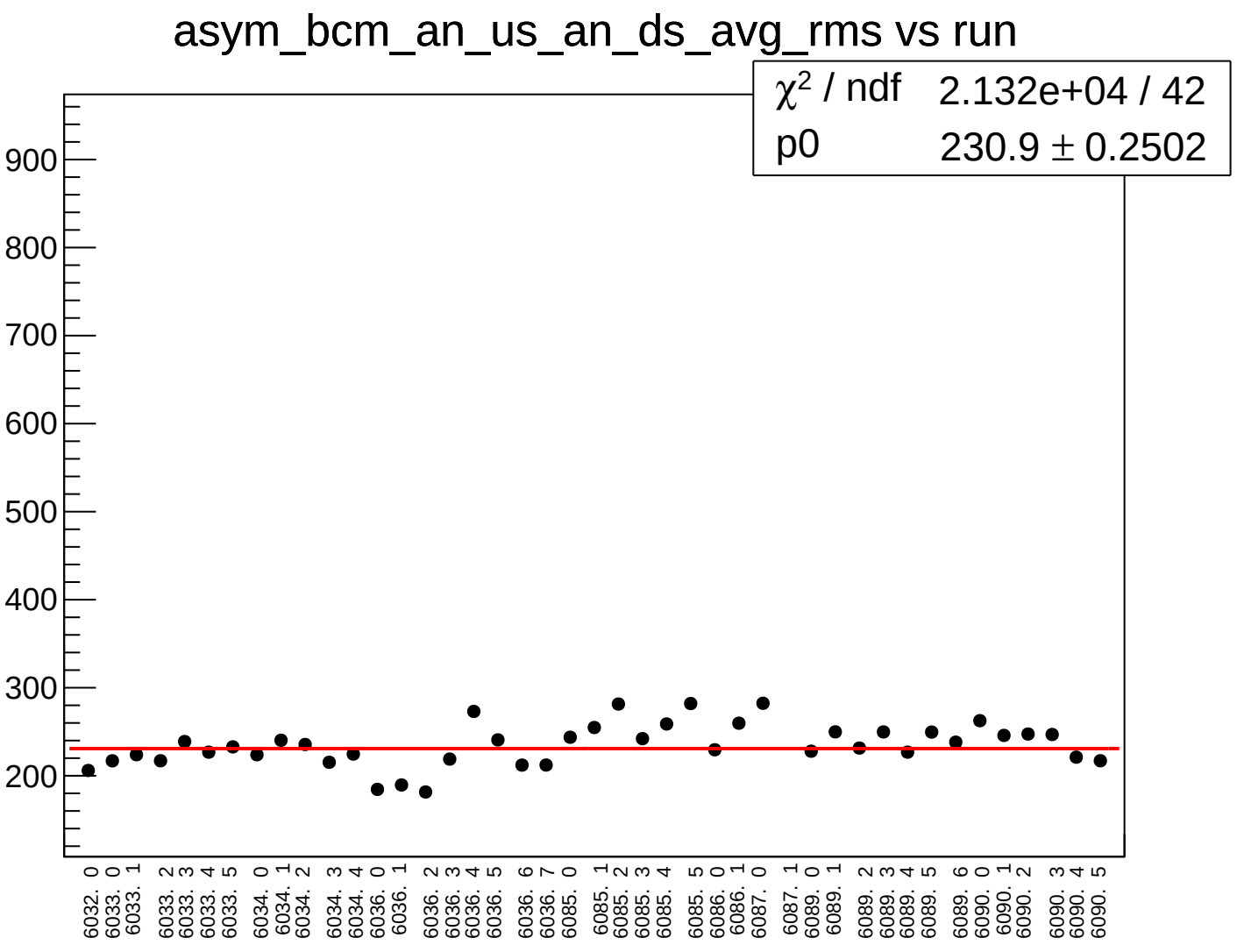

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.131e+04 / 42
p0 231 ± 0.2503
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

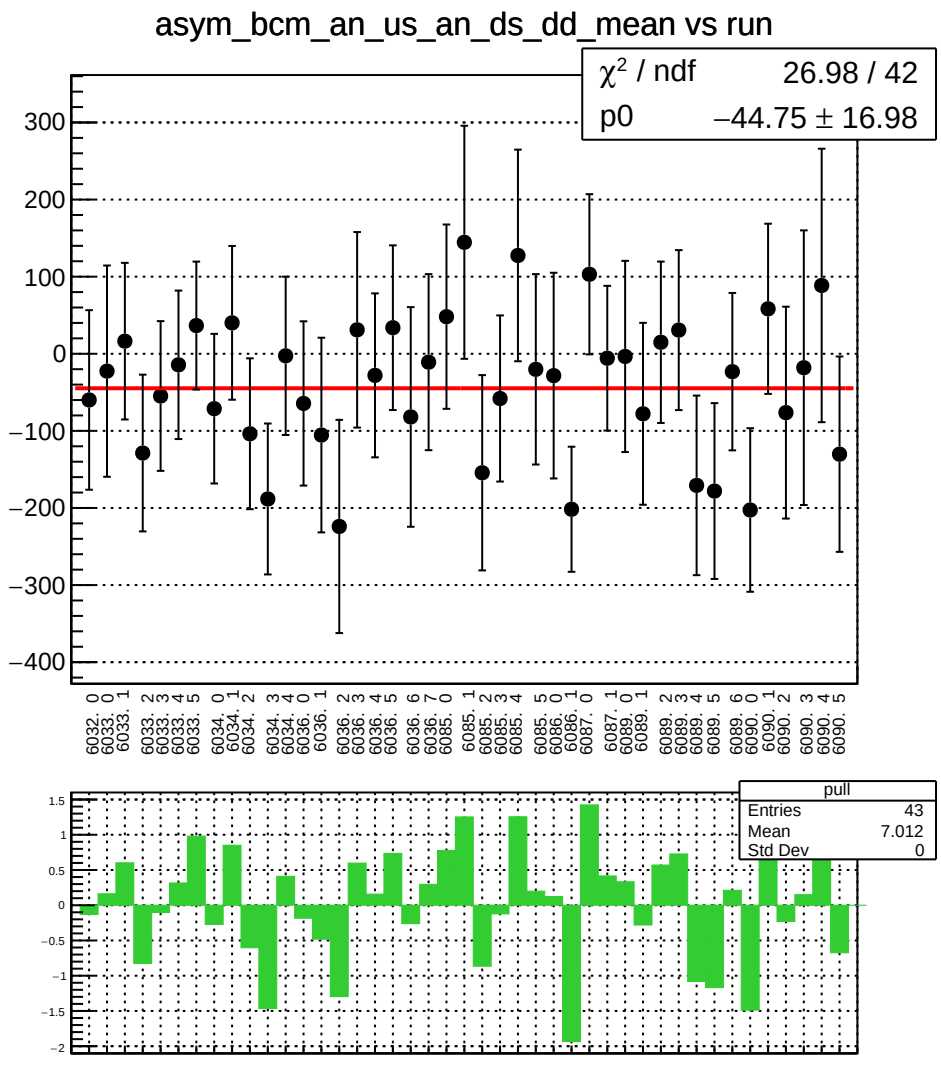

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 10.96 / 42
p0 76.63 ± 120
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 156.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01538
Std Dev 0.5045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

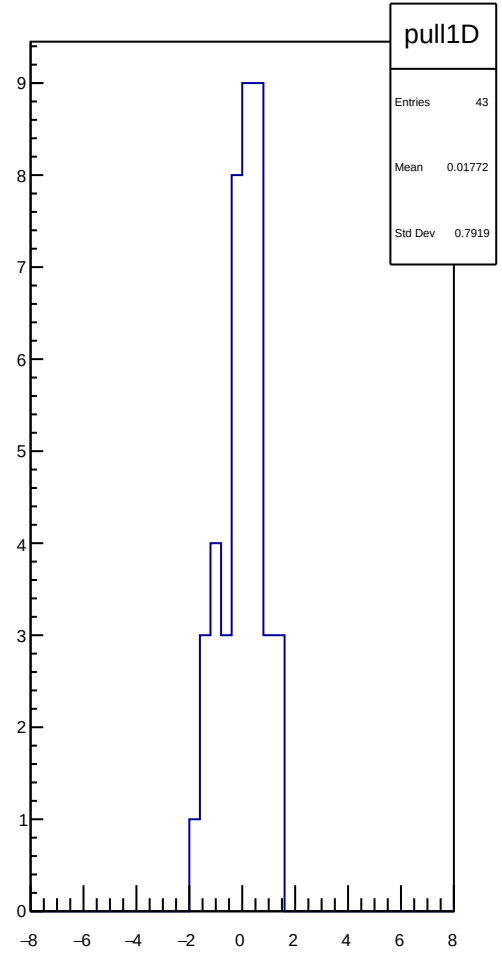

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 2.064e+04 / 42
p0 78.37 ± 0.08488
300
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

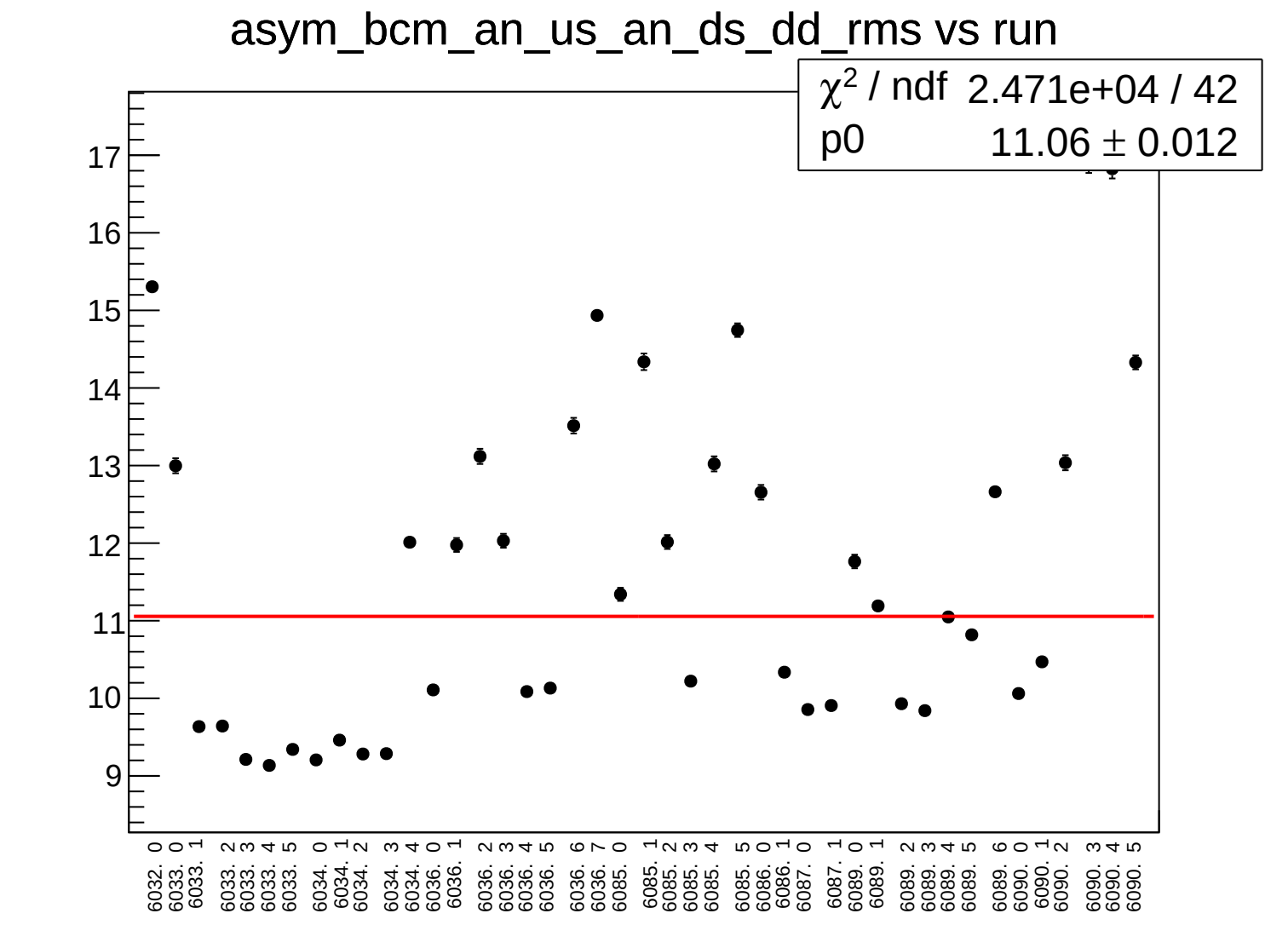

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 12.11 / 42
p0 371.7 ± 353.8
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 129
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

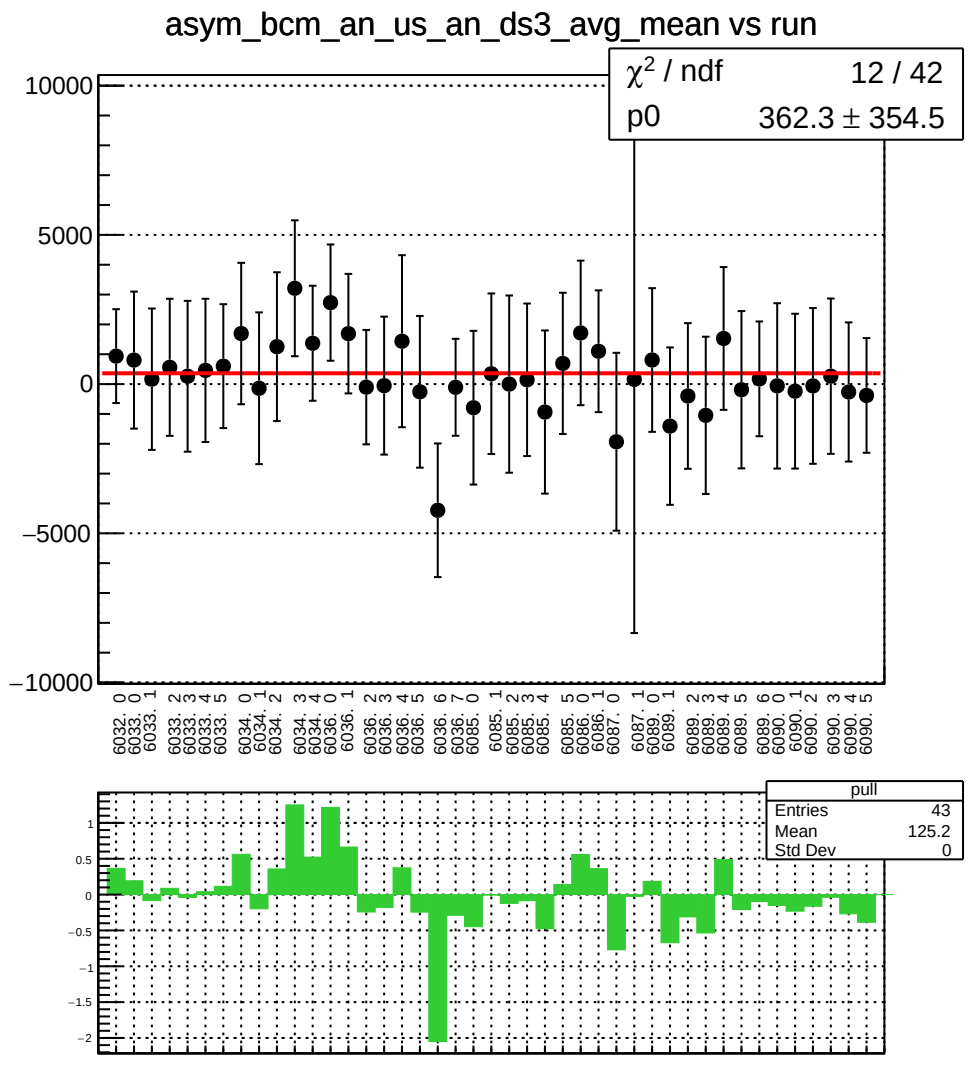

pull1D
Entries 43
Mean −0.01968
Std Dev 0.5303
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

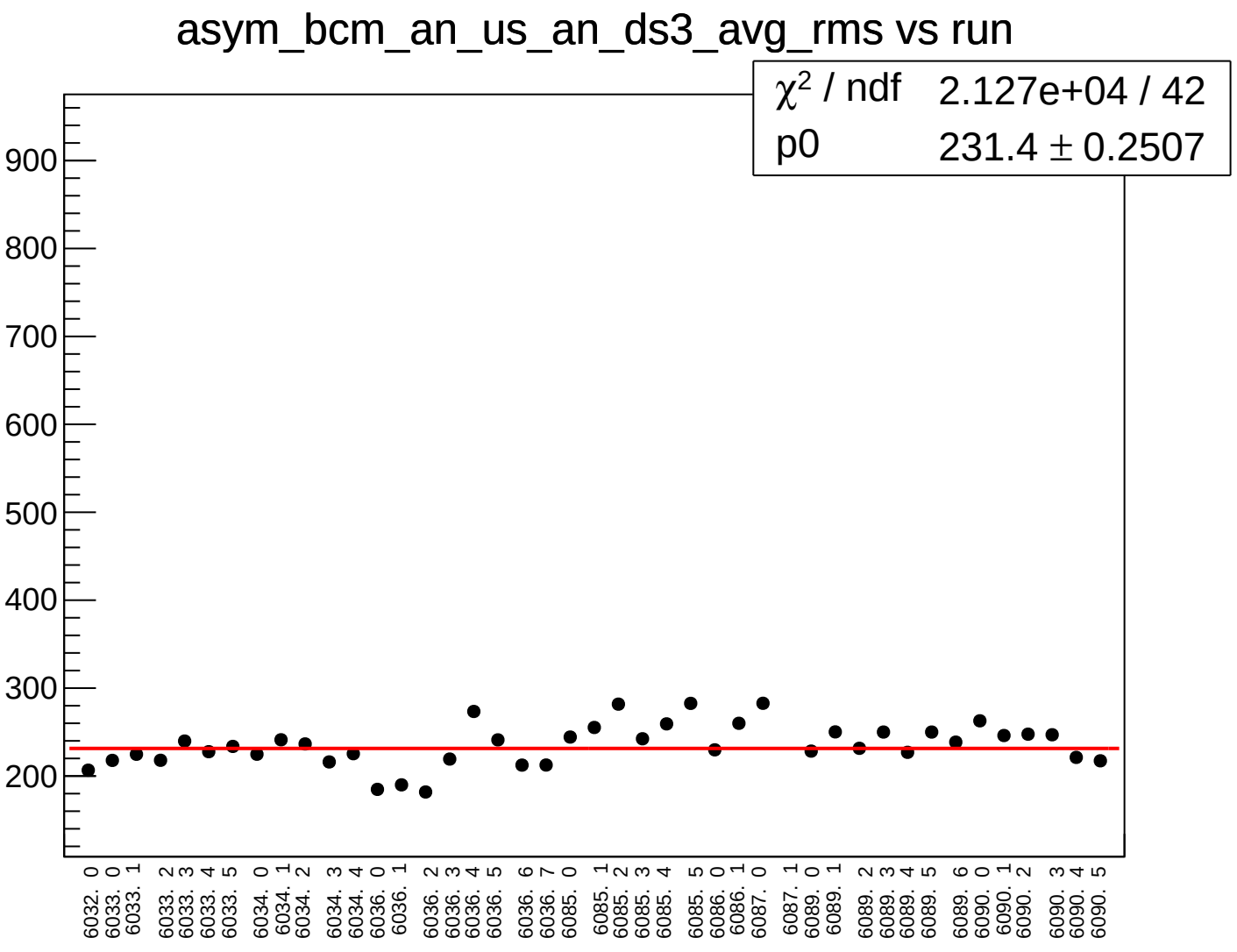

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.132e+04 / 42
p0 230.9 ± 0.2502
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

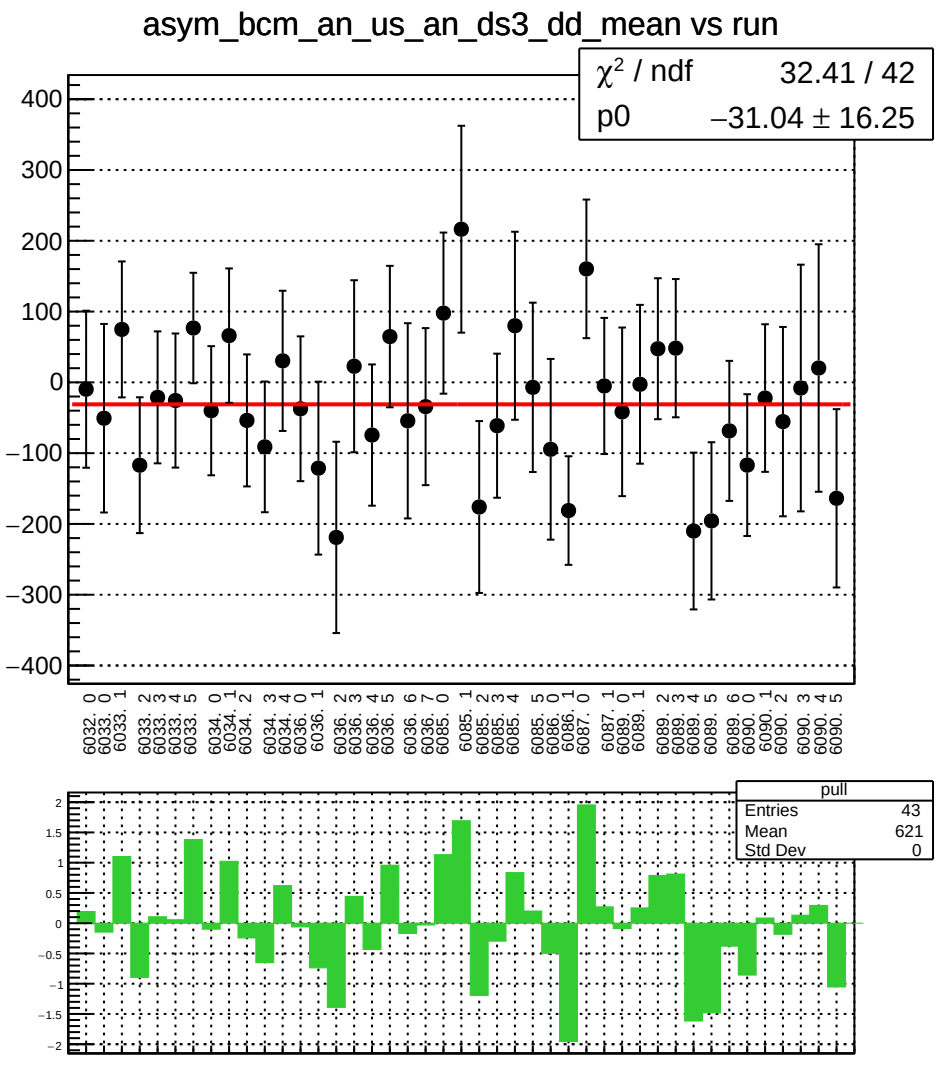

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 26.98 / 42
p0 −44.75 ± 16.98
pull
Entries 43
Mean 7.012
Std Dev 0

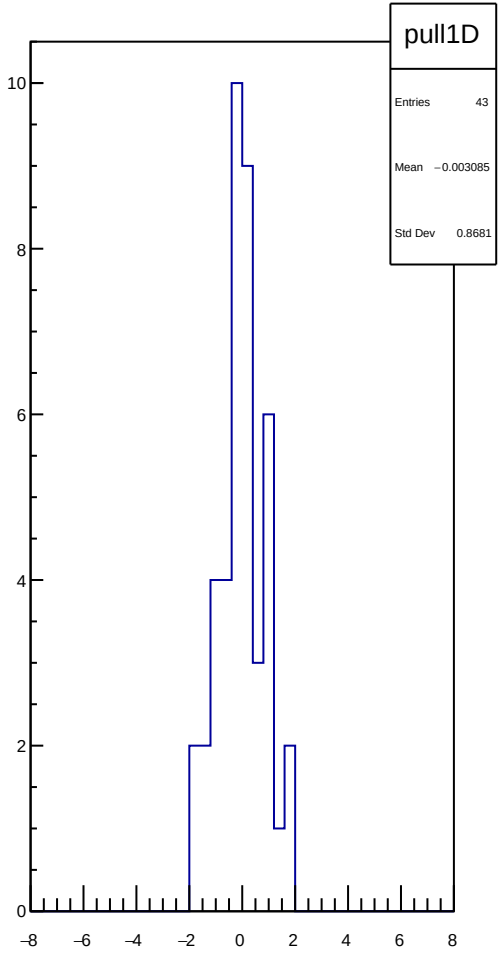

pull1D
Entries 43
Mean 0.01772
Std Dev 0.7919

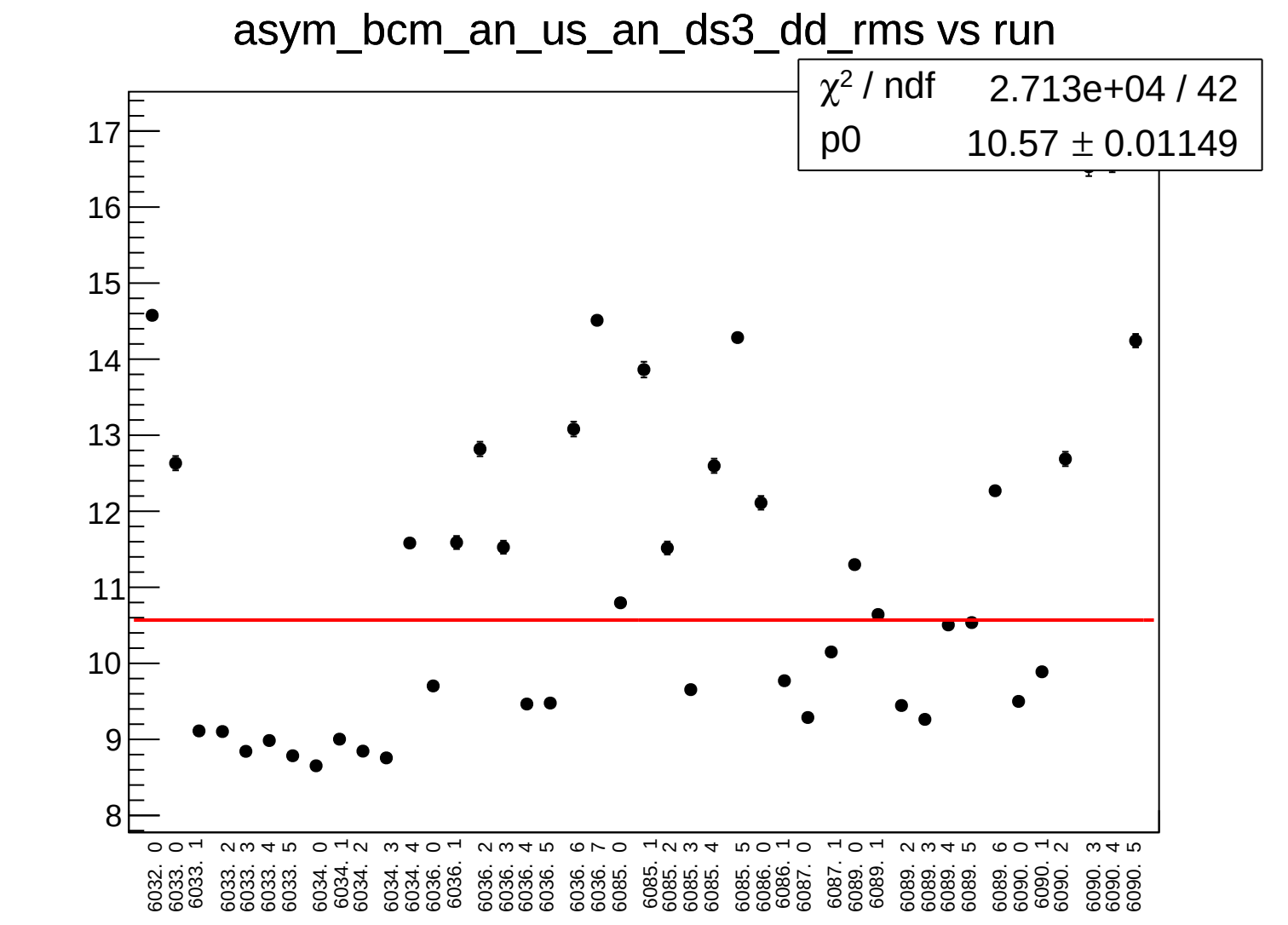

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2.471e+04 / 42
p0 11.06 ± 0.012
17
16
15
14
13
12
11
10
9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

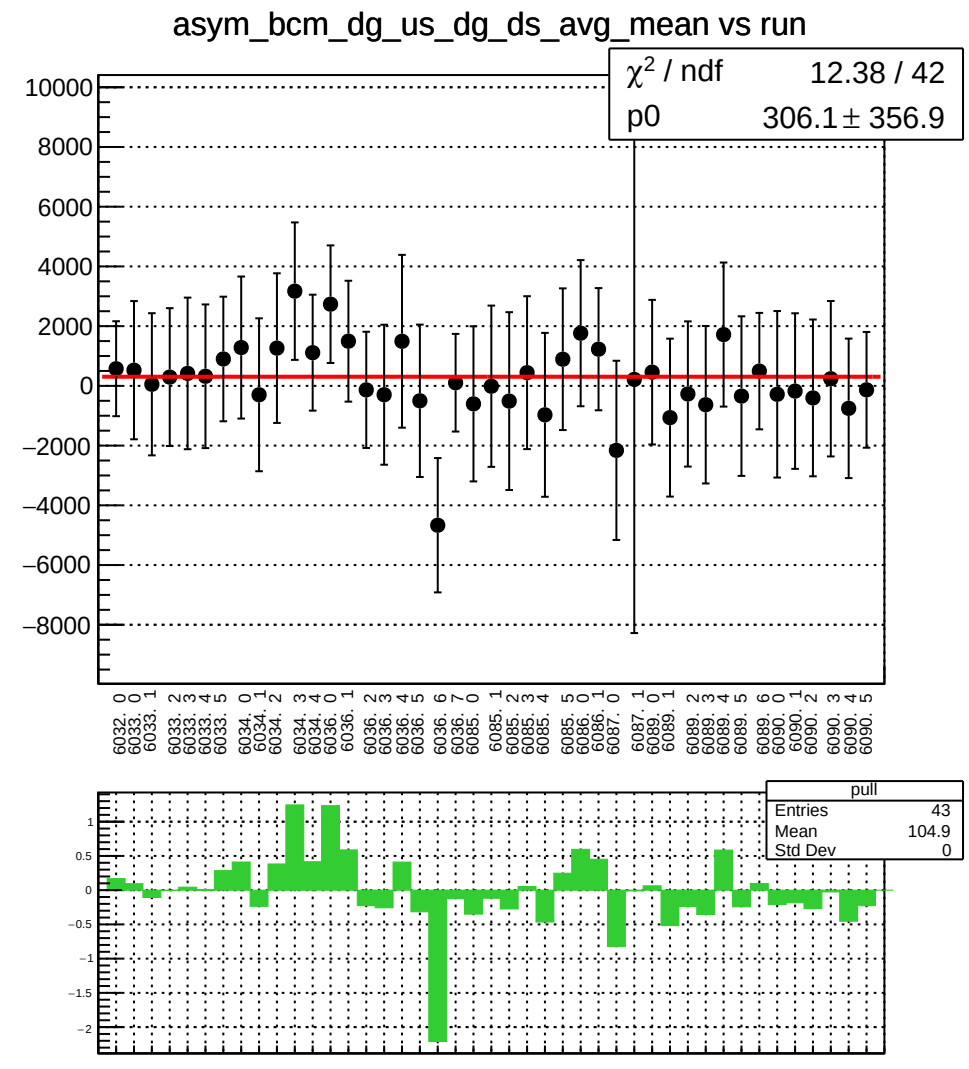

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 12 / 42
p0 362.3 ± 354.5
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 125.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01954
Std Dev 0.528
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

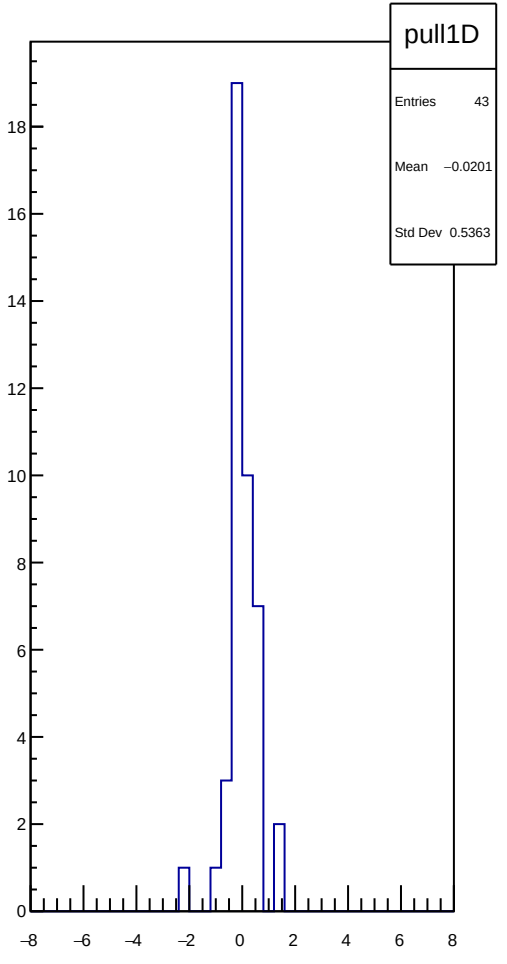

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2.127e+04 / 42
p0 231.4 ± 0.2507
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

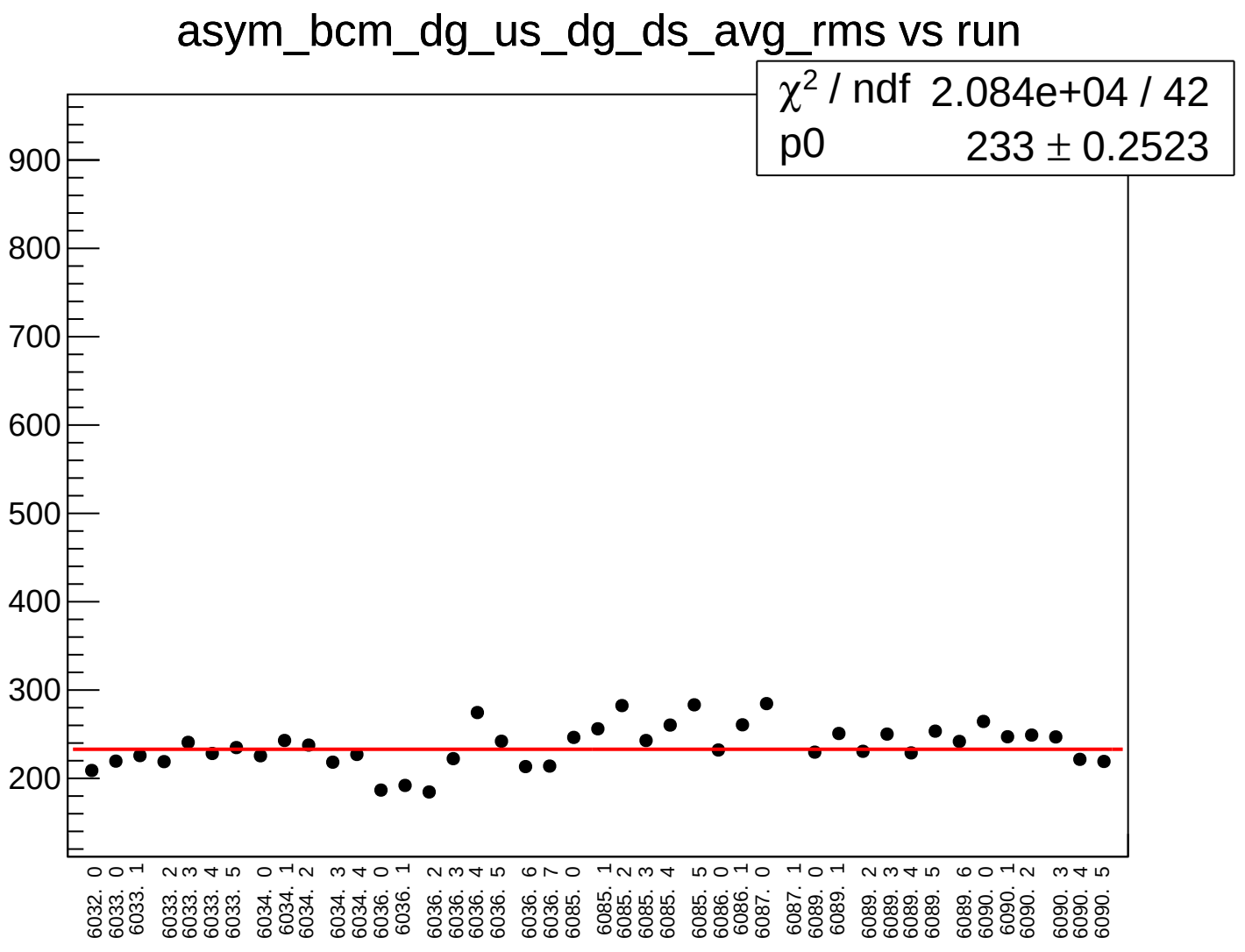

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 32.41 / 42
p0 −31.04 ± 16.25
pull
Entries 43
Mean 621
Std Dev 0

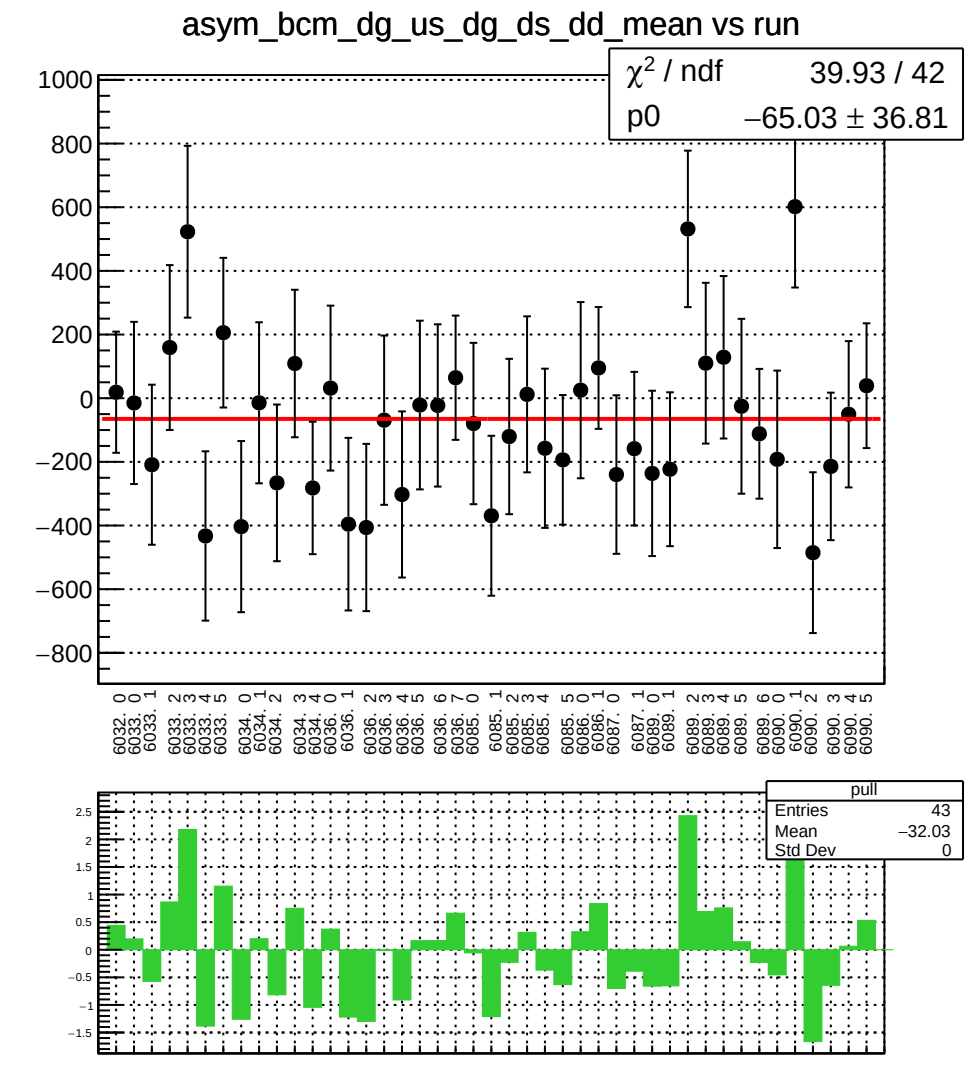

pull1D
Entries 43
Mean −0.003085
Std Dev 0.8681

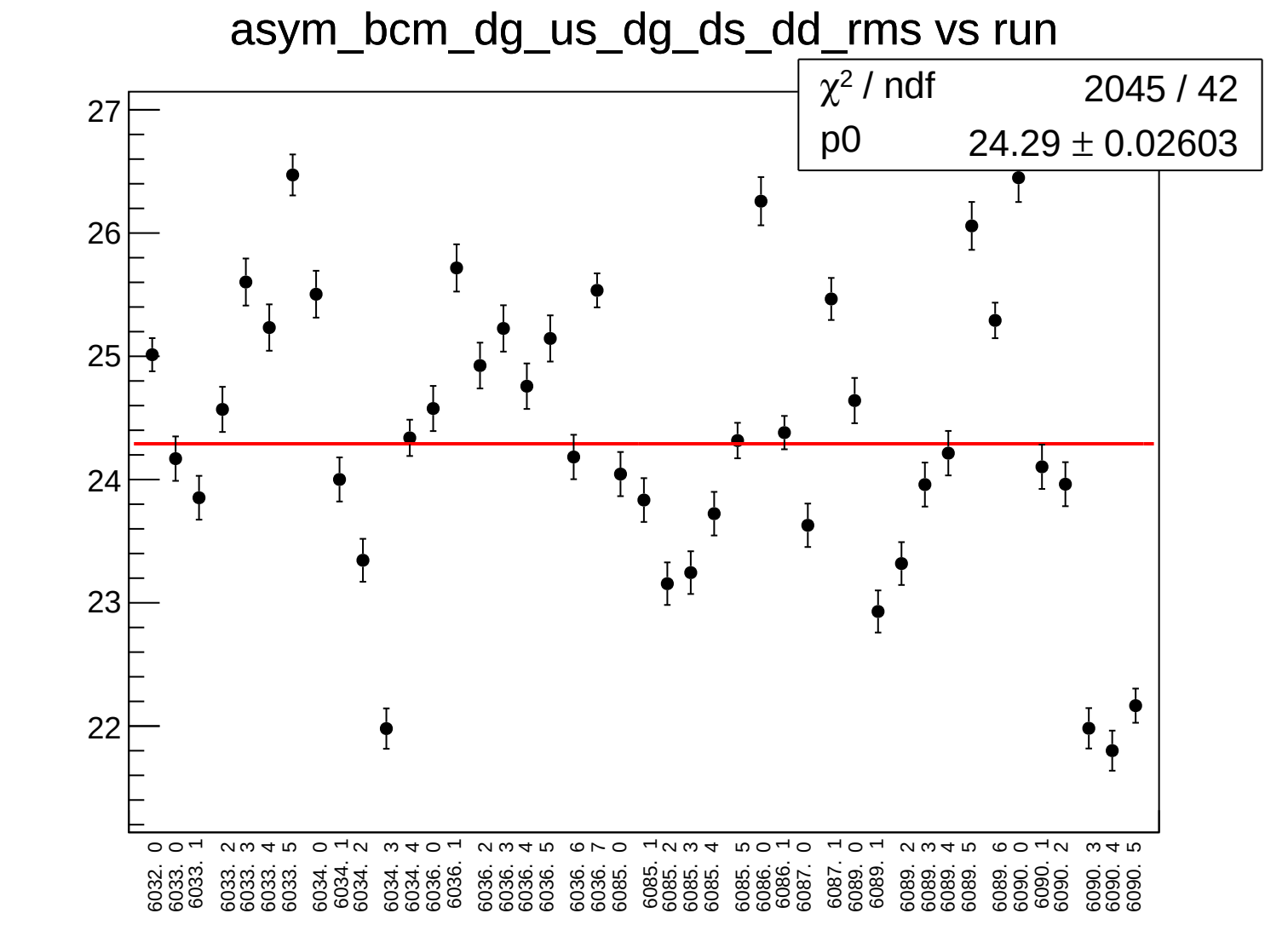

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2.713e+04 / 42
p0 10.57 ± 0.01149
17
16
15
14
13
12
11
10
9
8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

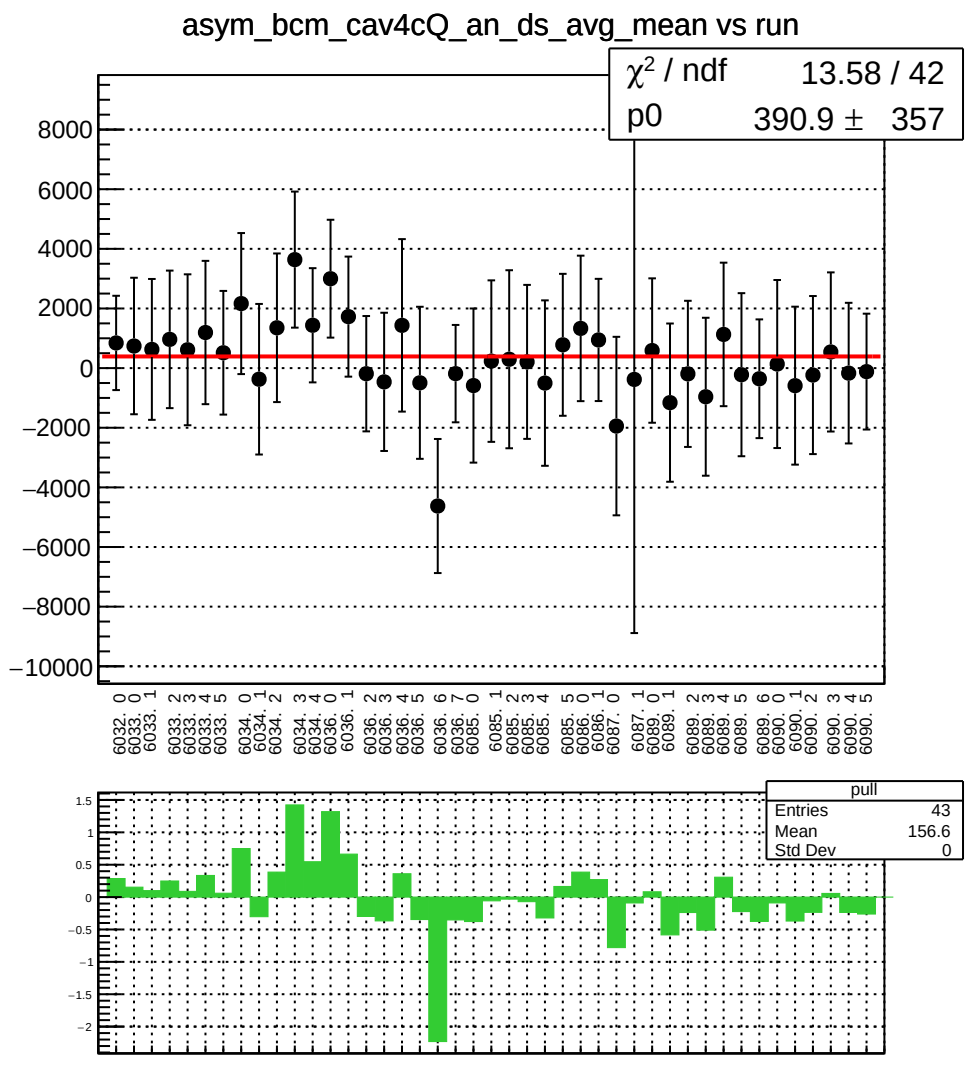

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 12.38 / 42
p0 306.1 ± 356.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 104.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

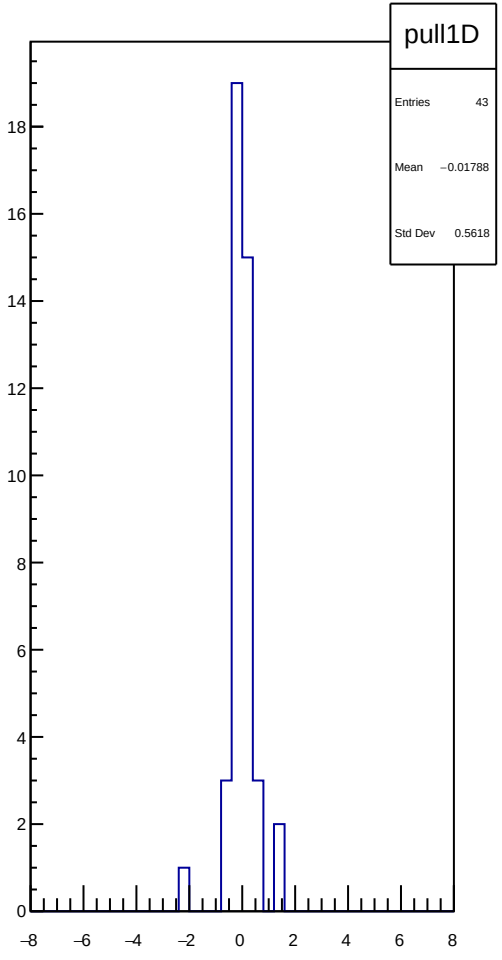

pull1D
Entries 43
Mean −0.0201
Std Dev 0.5363
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

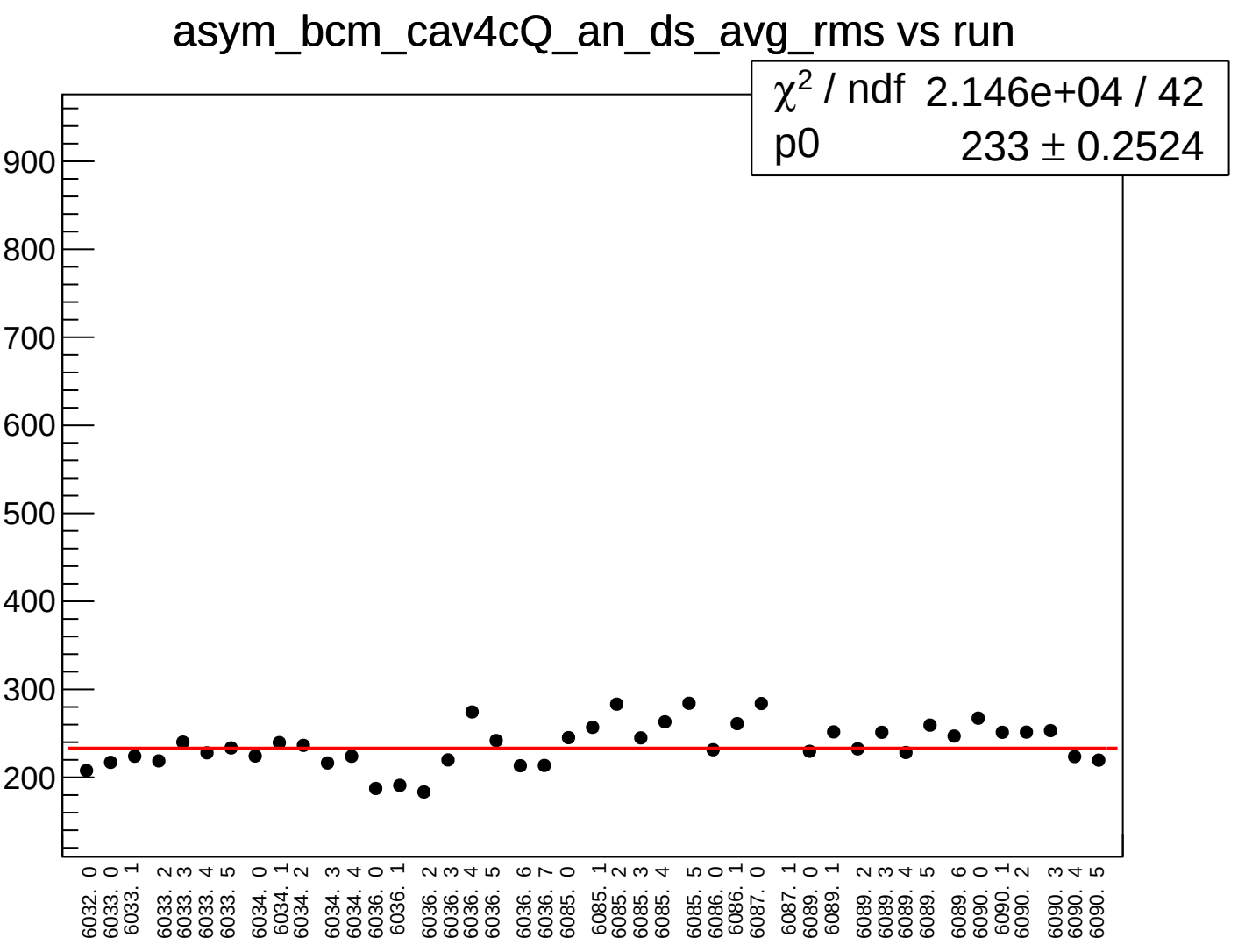

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2.084e+04 / 42
p0 233 ± 0.2523
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

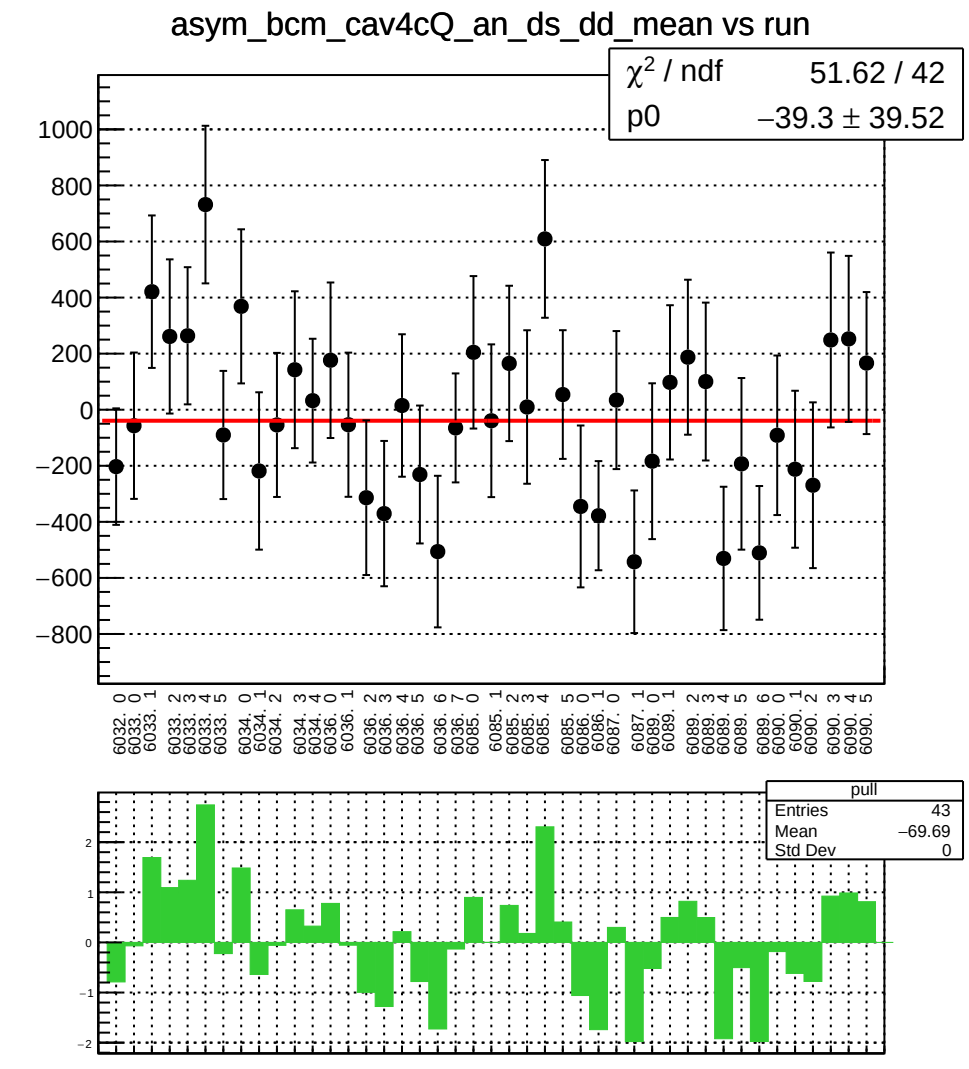

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 39.93 / 42
p0 −65.03 ± 36.81
1000
800
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01243
Std Dev 0.9636
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

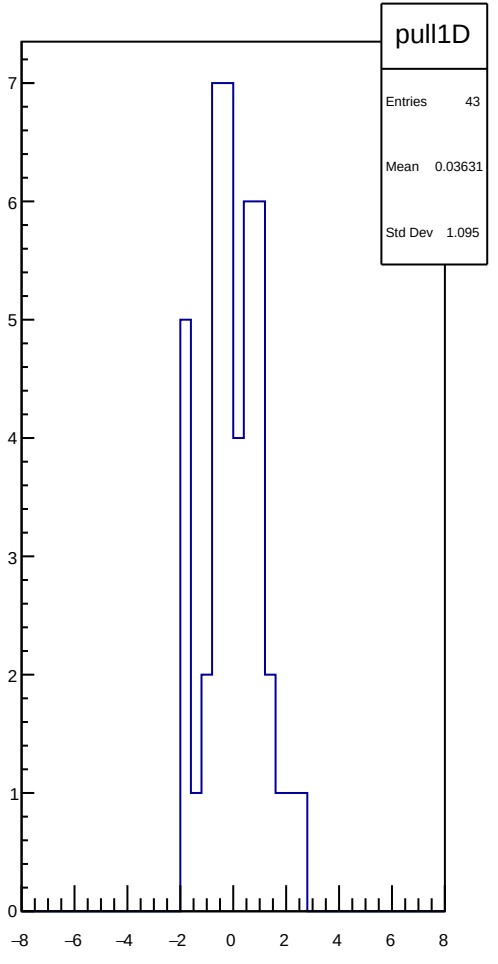

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2045 / 42
p0 24.29 ± 0.02603
27
26
25
24
23
22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

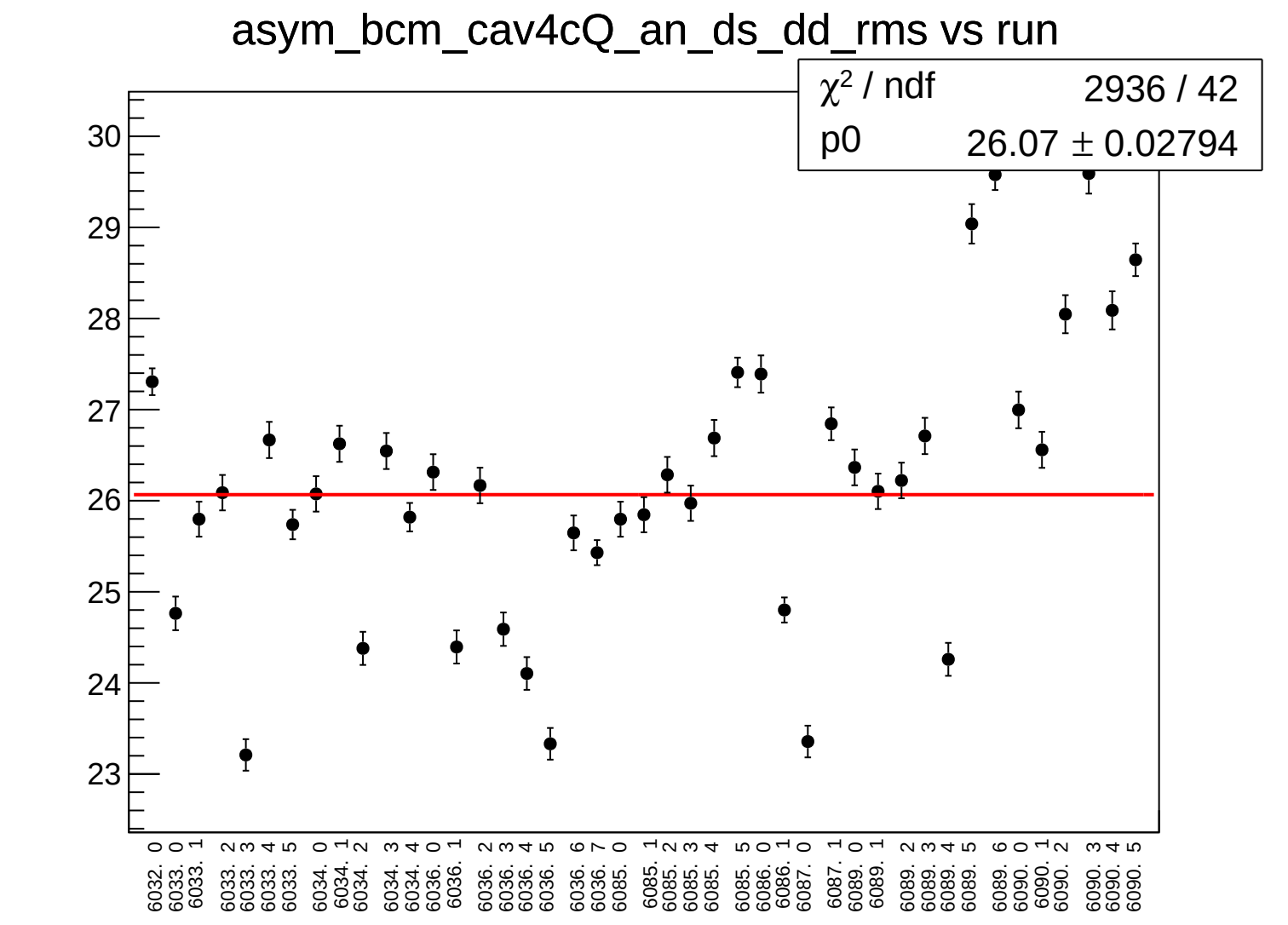

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 13.58 / 42
p0 390.9 ± 357
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 156.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

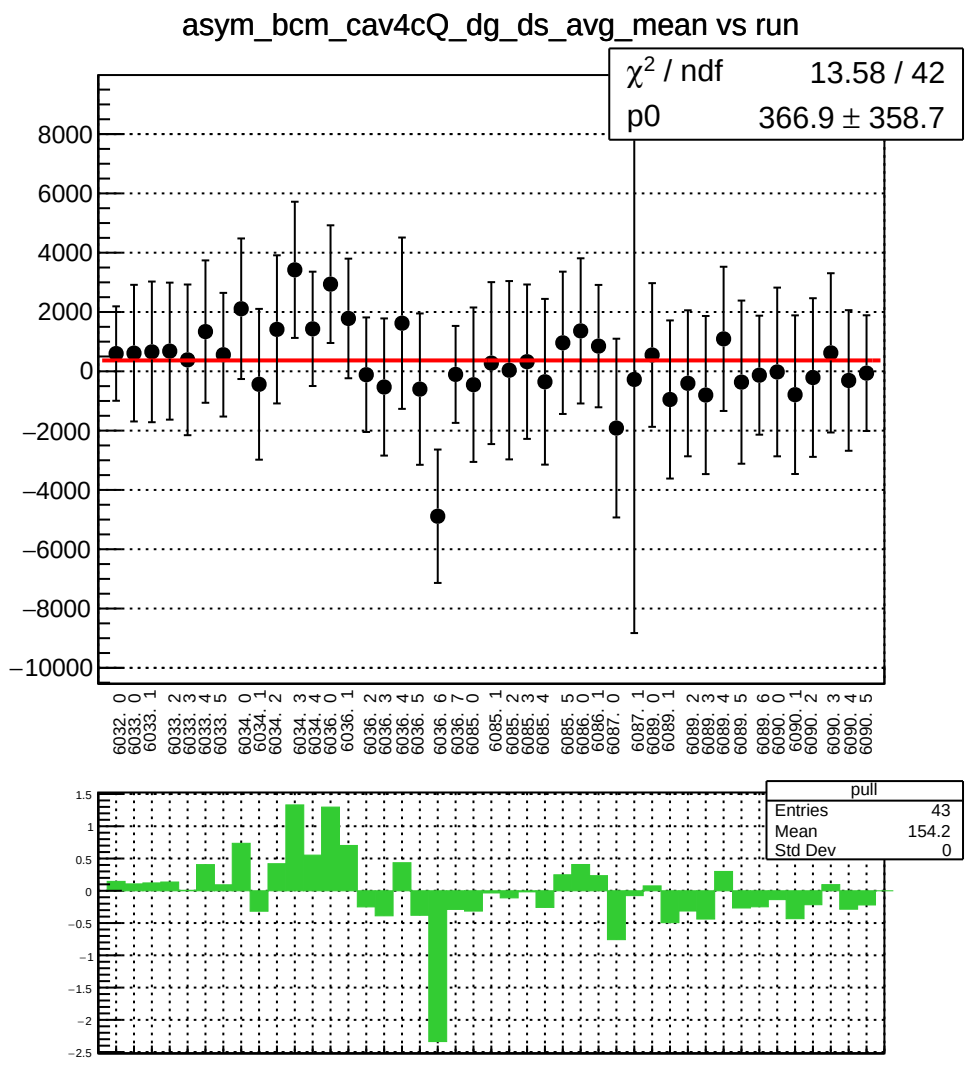

pull1D
Entries 43
Mean −0.01788
Std Dev 0.5618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

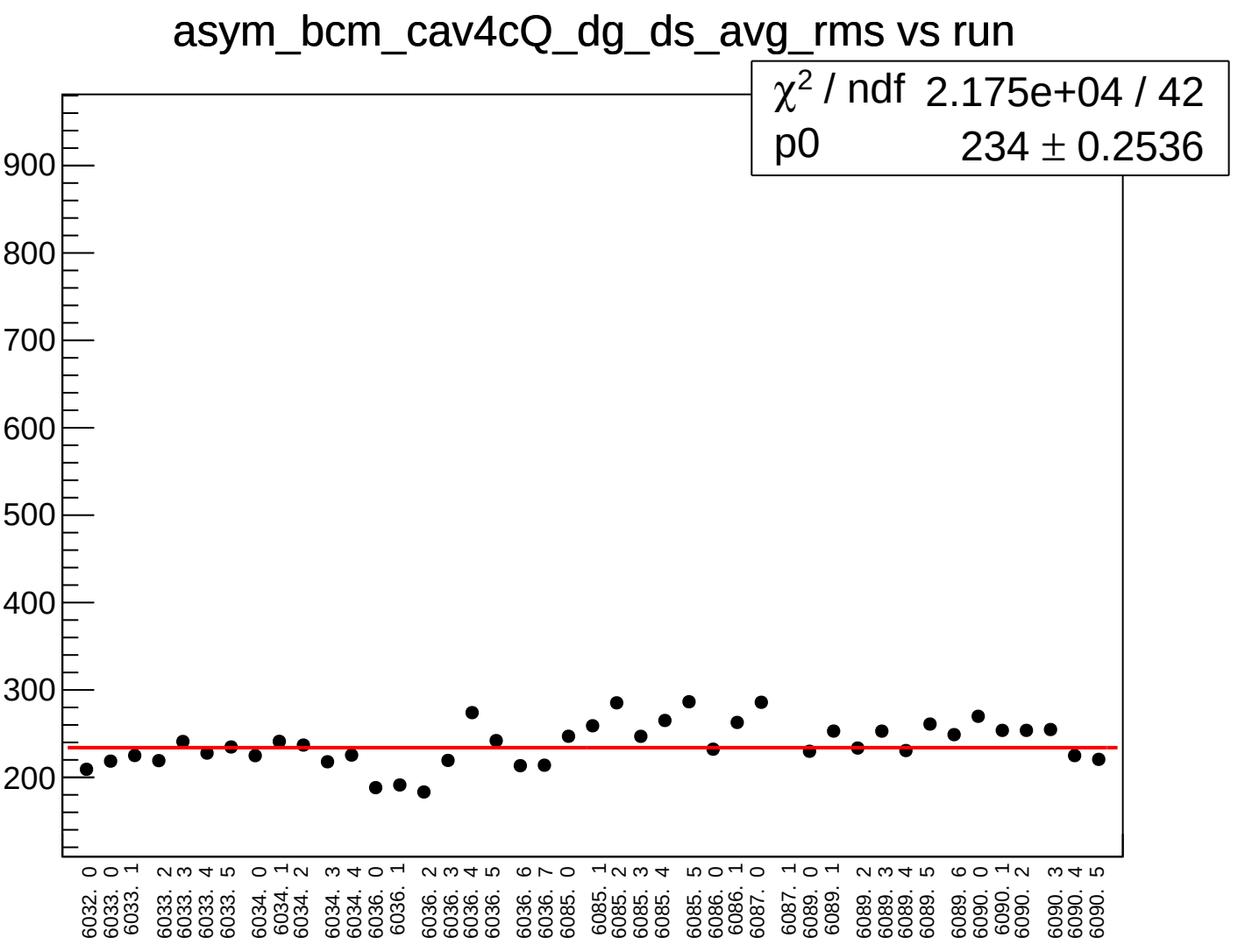

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.146e+04 / 42
p0 233 ± 0.2524
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

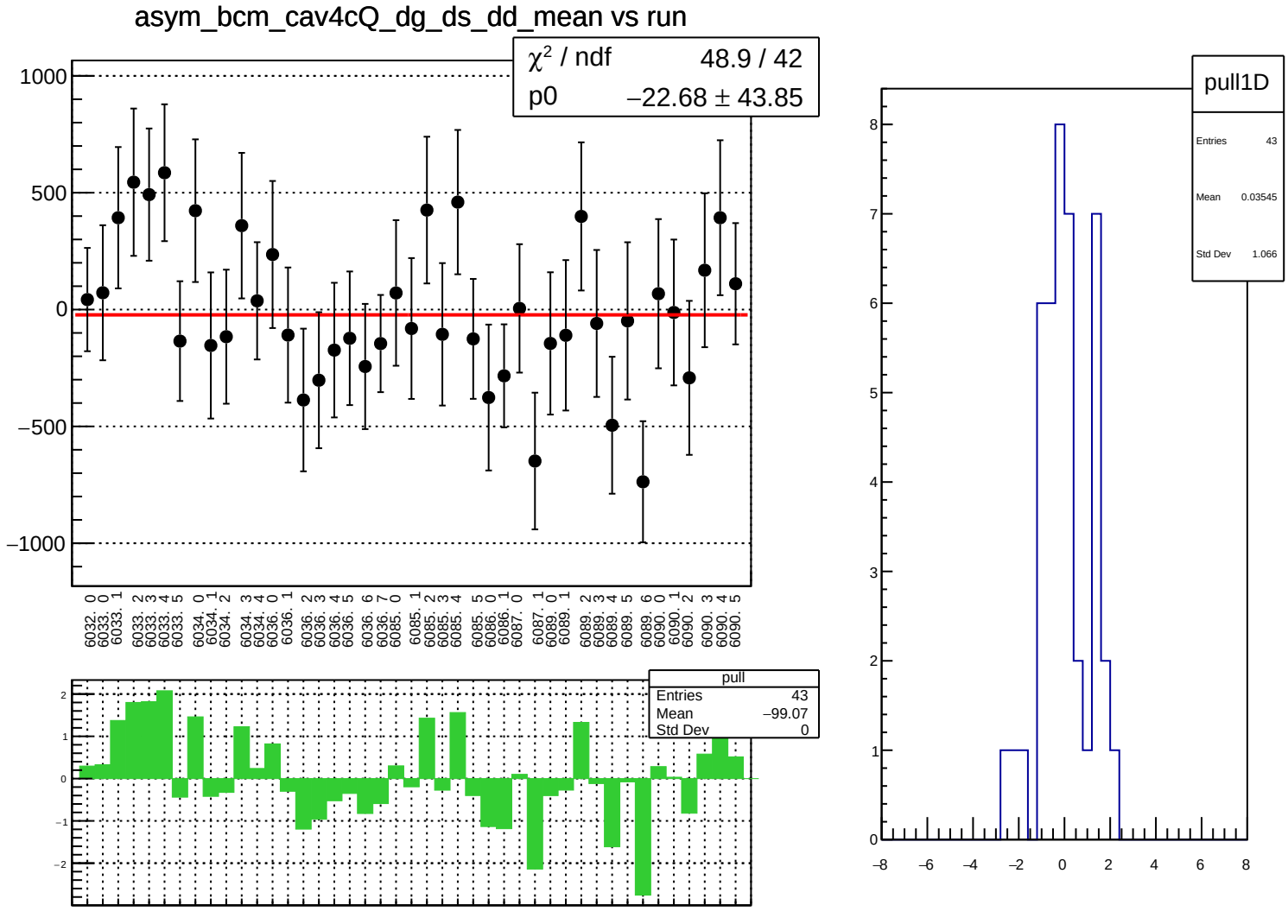

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 51.62 / 42
p0 −39.3 ± 39.52
1000
800
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −69.69
Std Dev 0
2
1
0
−1
−2

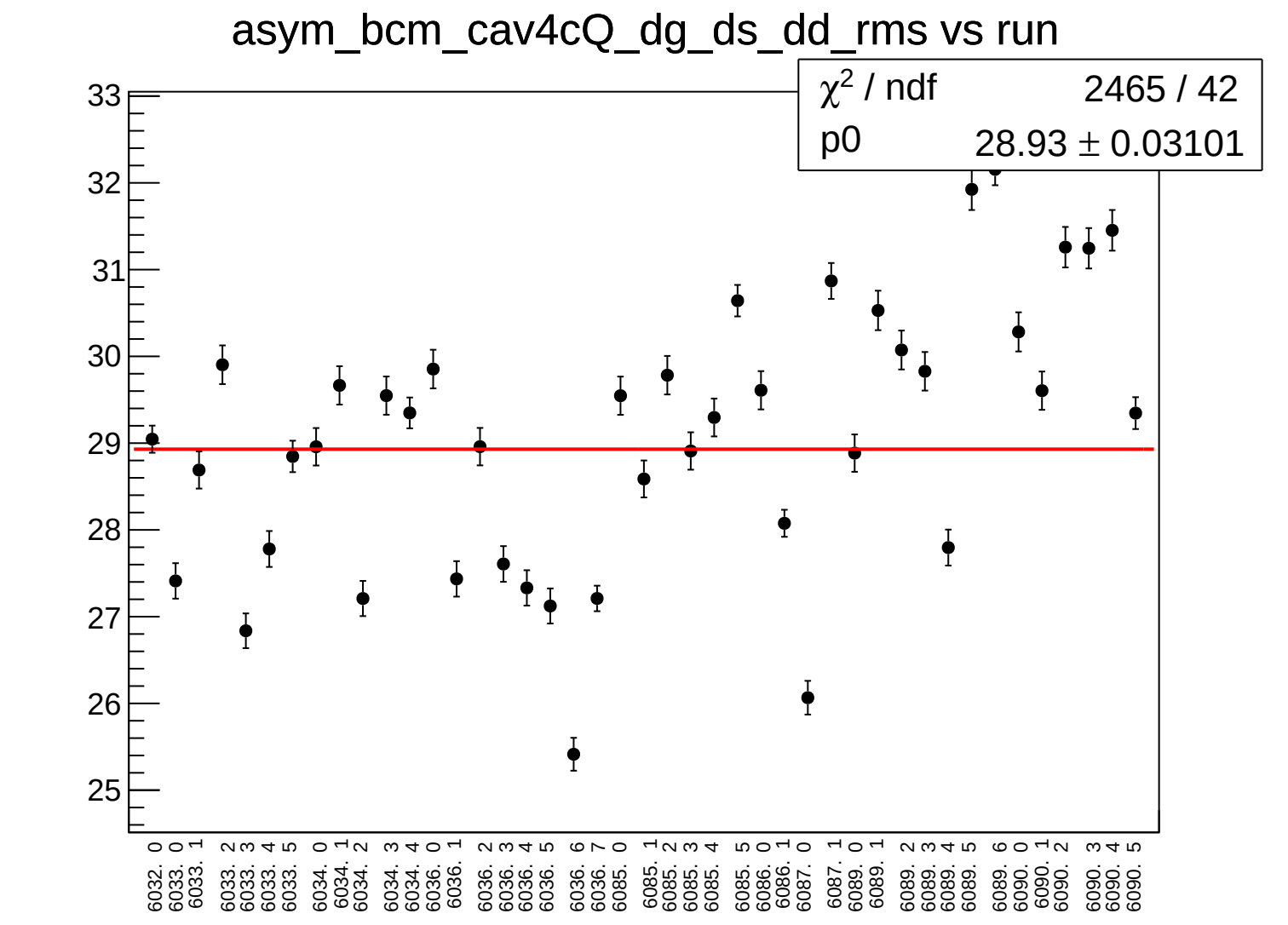

pull1D
Entries 43
Mean 0.03631
Std Dev 1.095
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

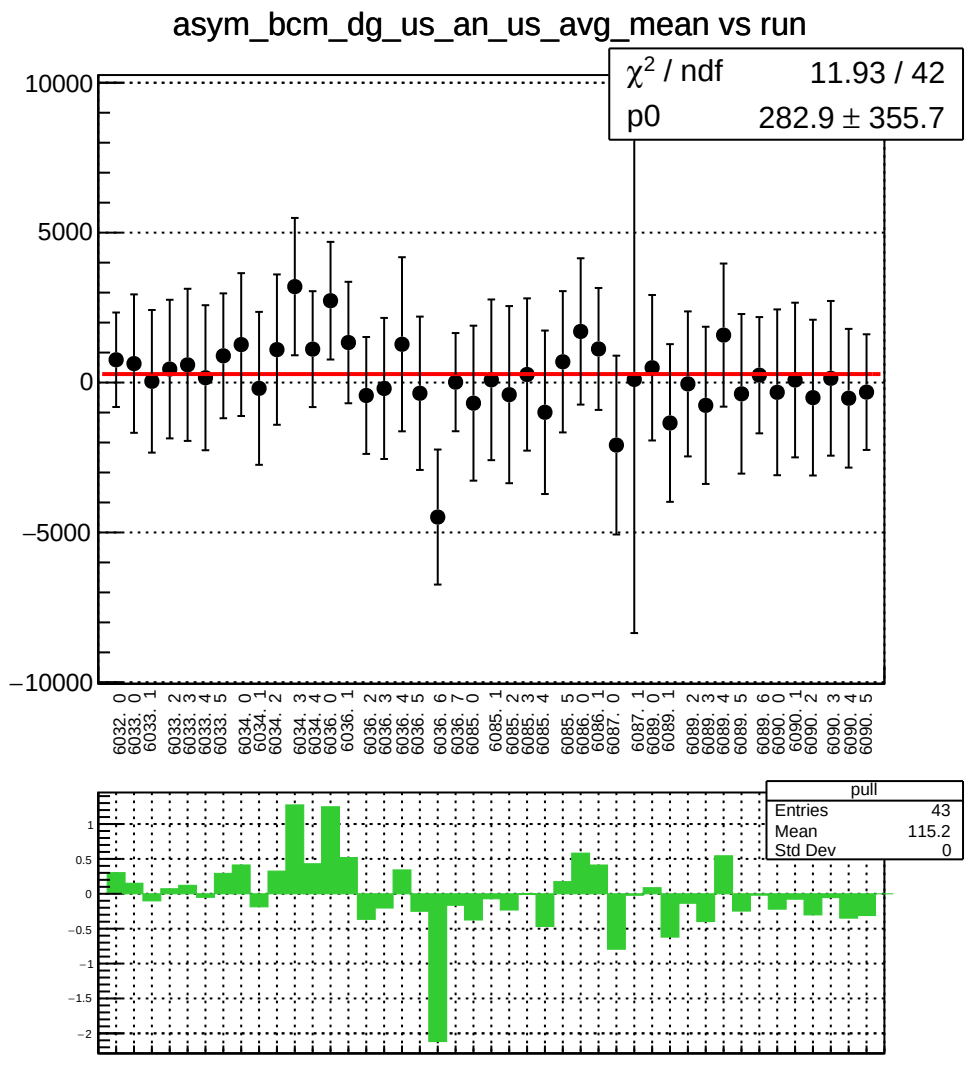

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2936 / 42
p0 26.07 ± 0.02794
30
29
28
27
26
25
24
23
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

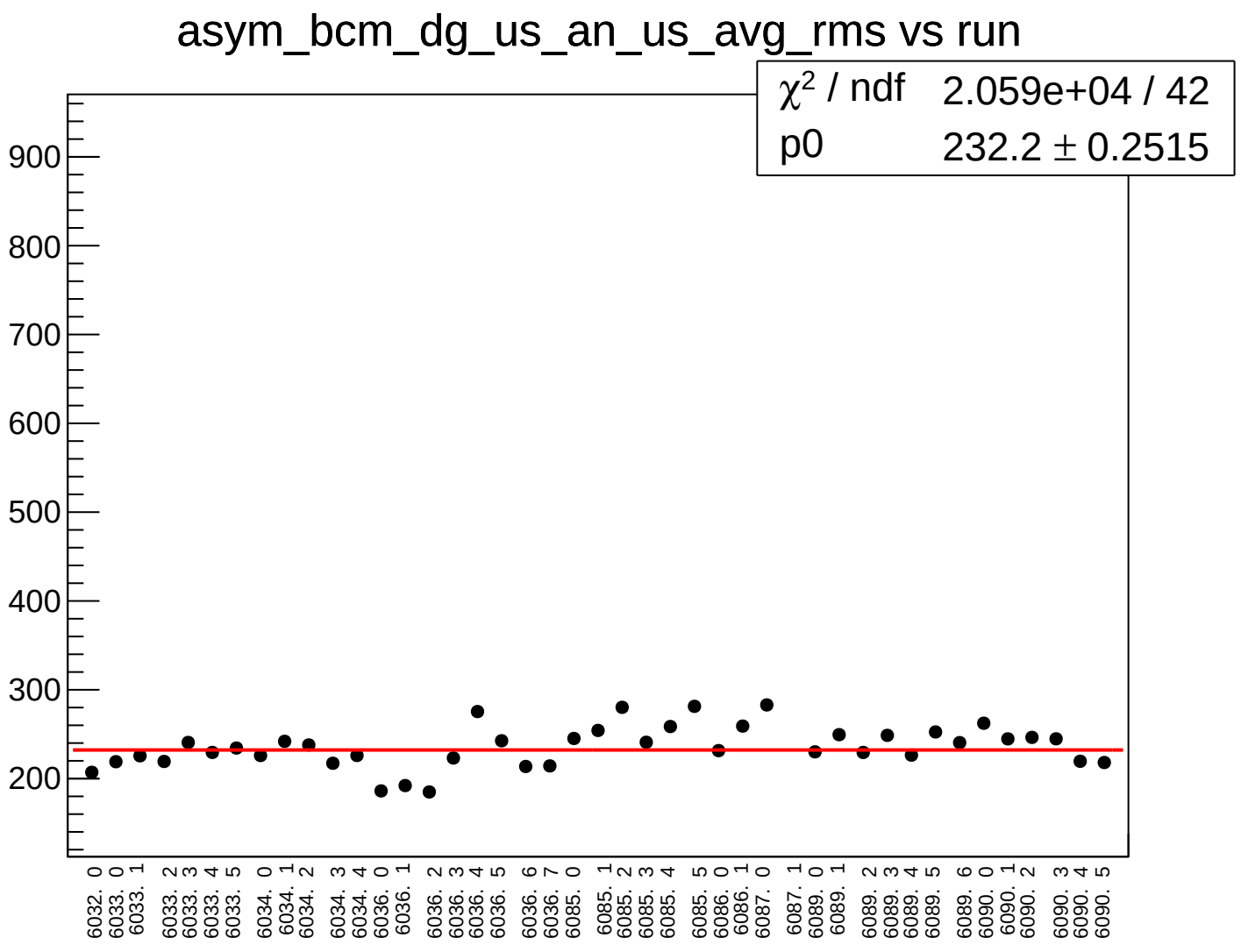

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 13.58 / 42
p0 366.9 ± 358.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 154.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01684
Std Dev 0.5617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

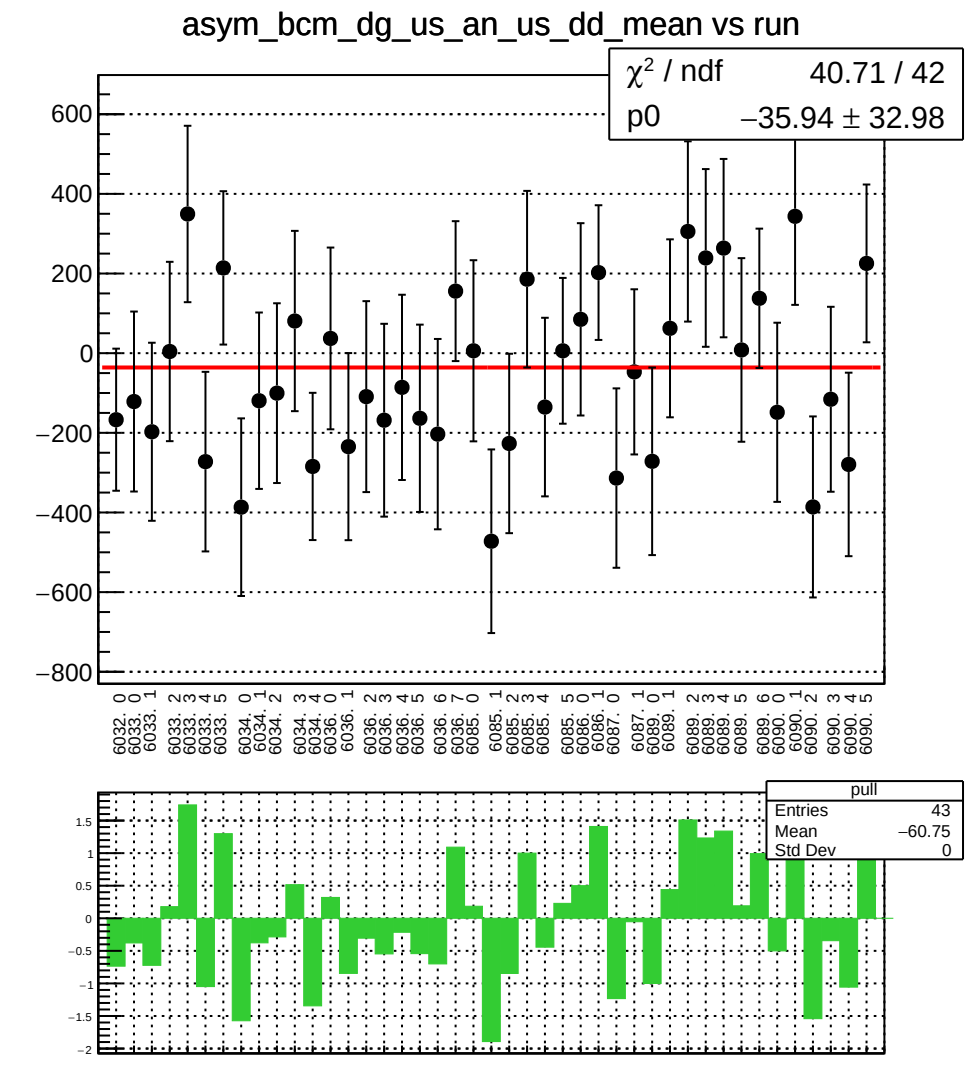

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.175e+04 / 42
p0 234 ± 0.2536
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

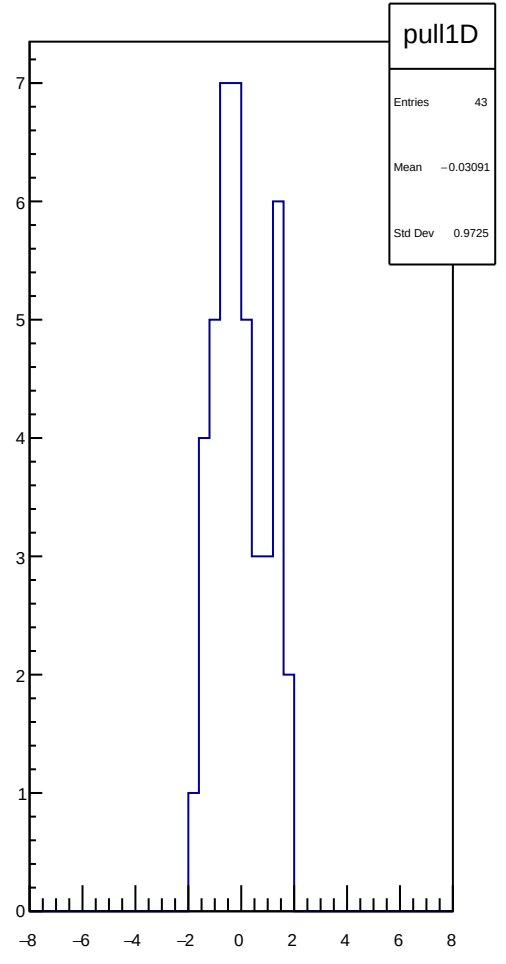

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 48.9 / 42
p0 −22.68 ± 43.85
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −99.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03545
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

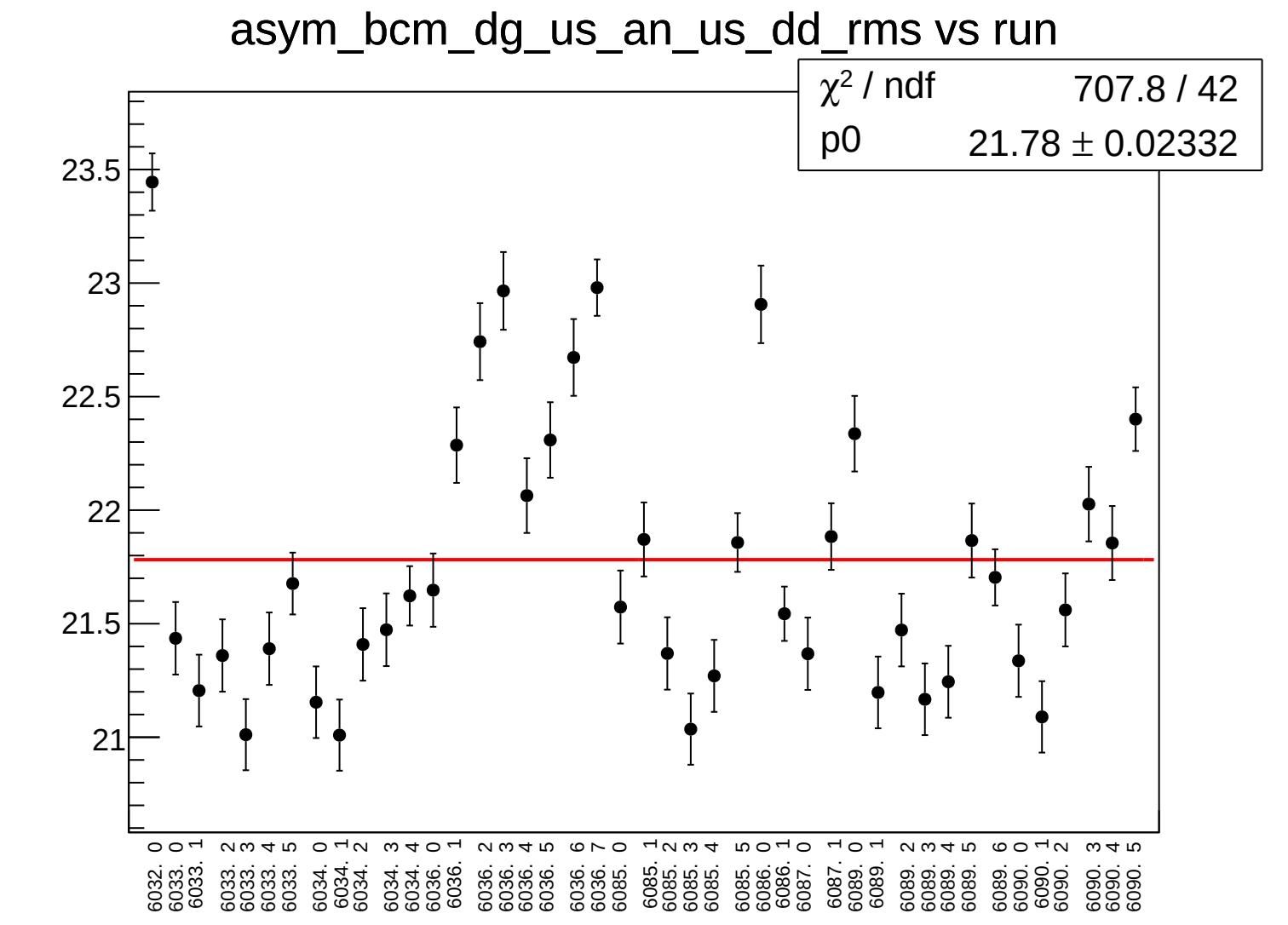

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2465 / 42
p0 28.93 ± 0.03101
33
32
31
30
29
28
27
26
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

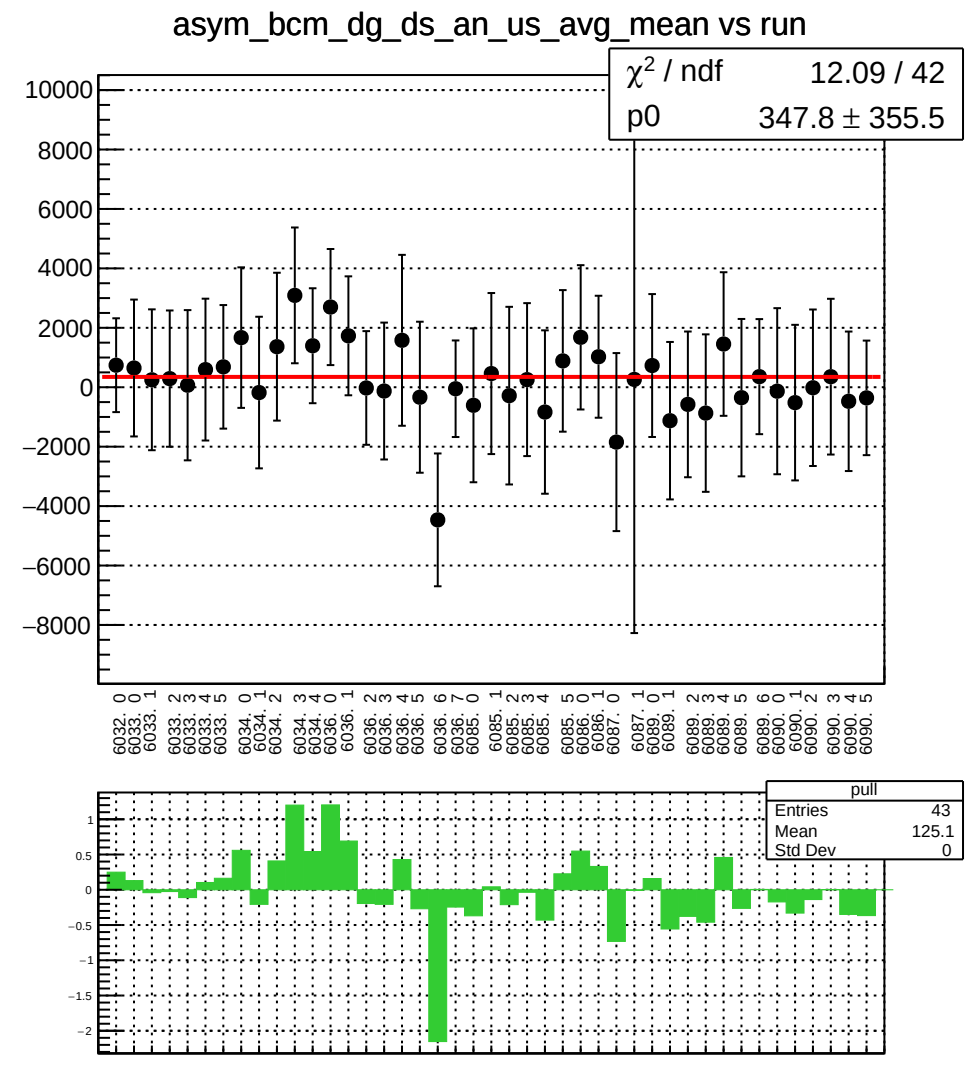

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 11.93 / 42
p0 282.9 ± 355.7
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 115.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0198
Std Dev 0.5263
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

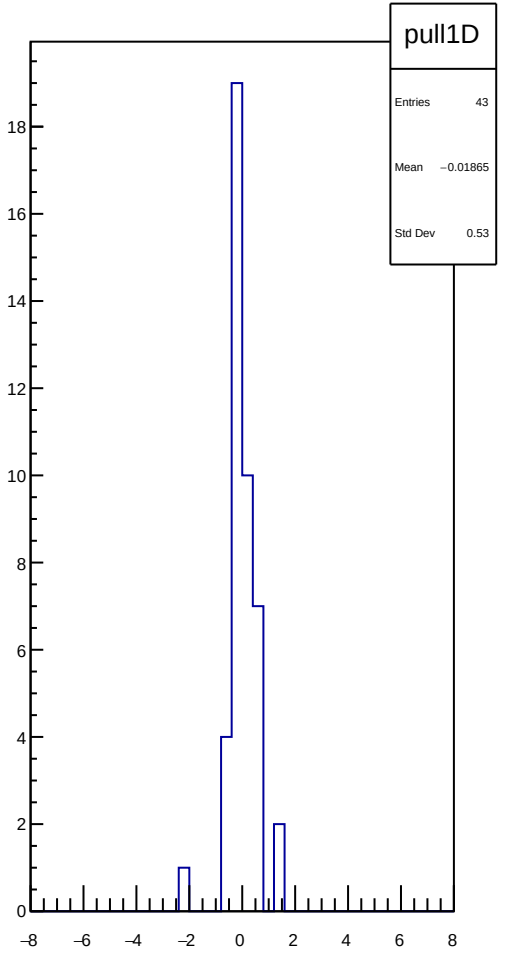

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2.059e+04 / 42
p0 232.2 ± 0.2515
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

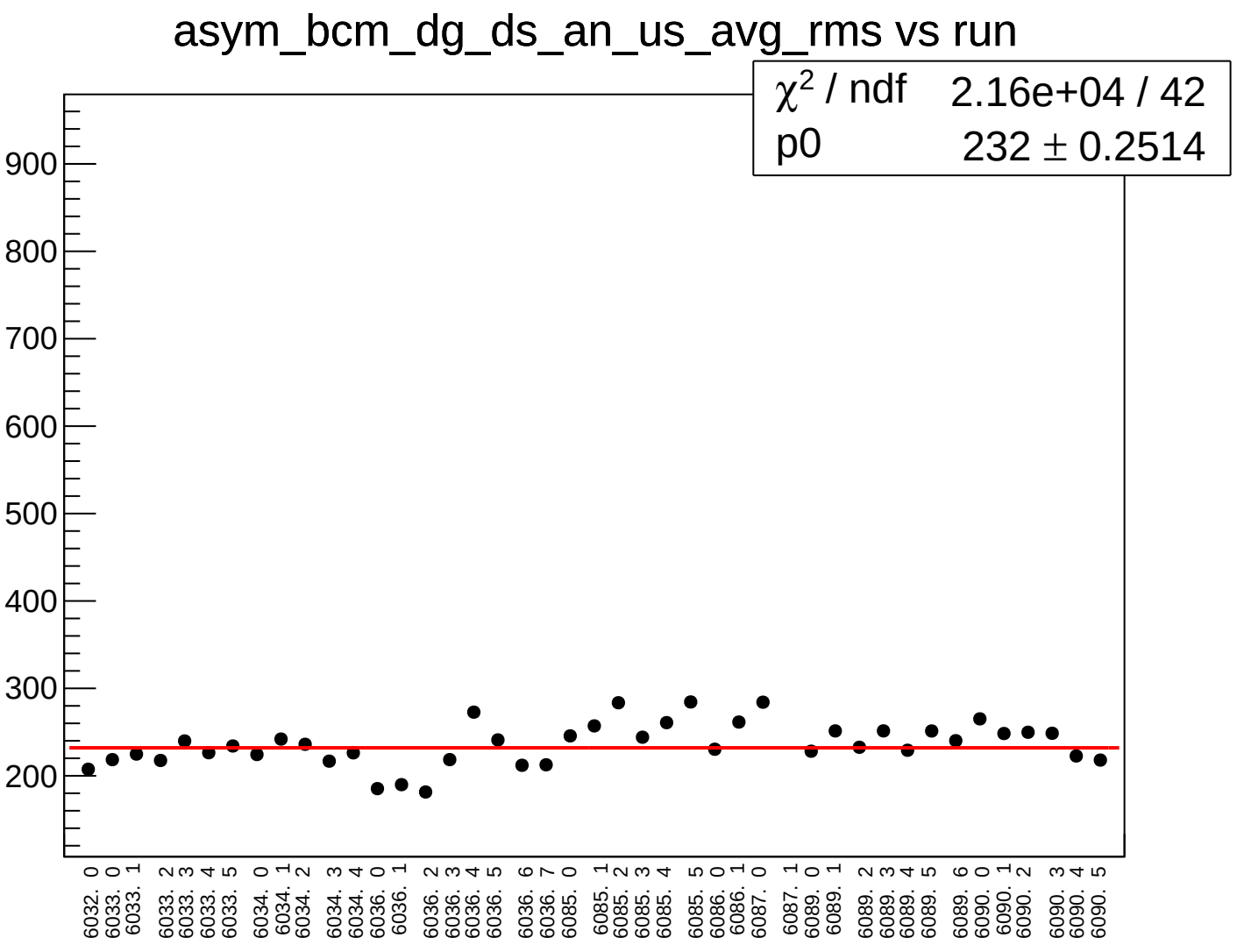

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 40.71 / 42
p0 −35.94 ± 32.98
pull
Entries 43
Mean −60.75
Std Dev 0

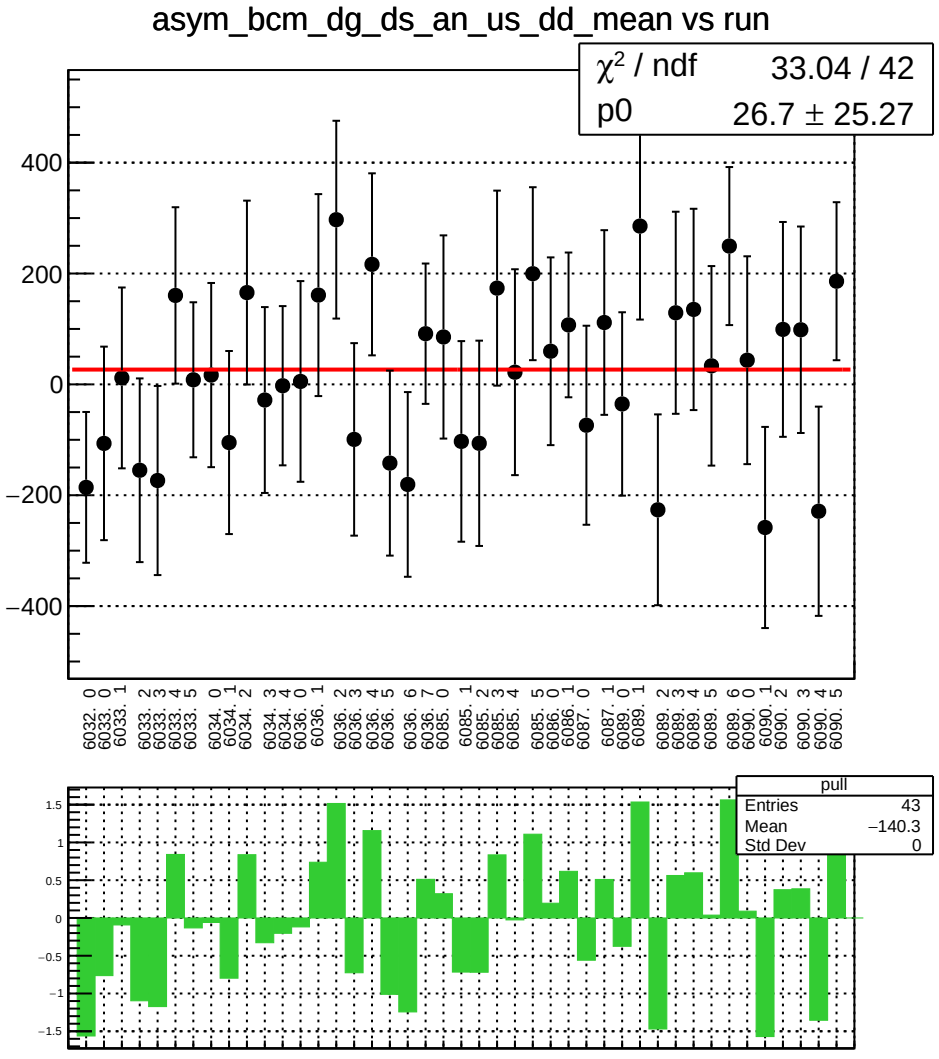

pull1D
Entries 43
Mean −0.03091
Std Dev 0.9725

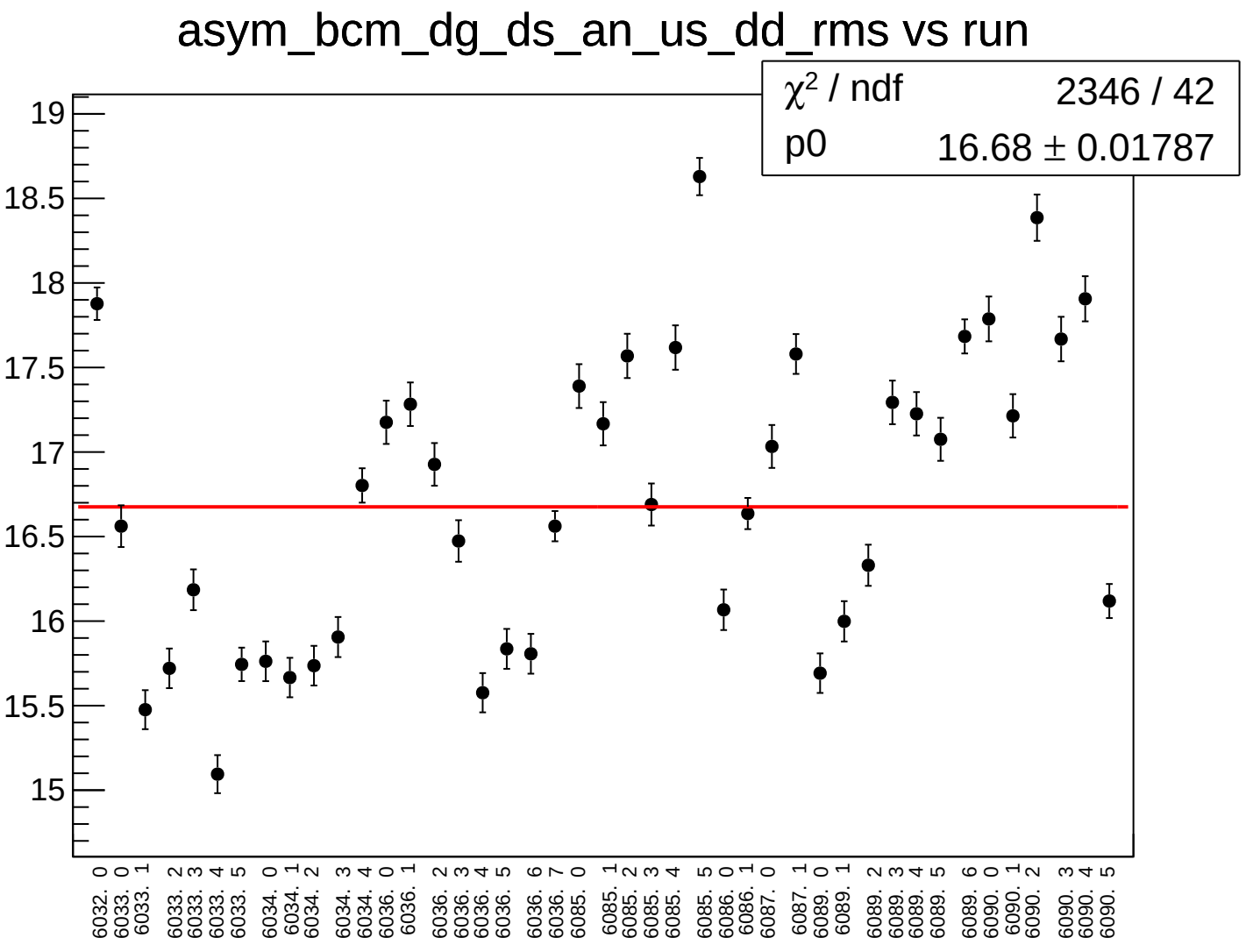

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 707.8 / 42
p0 21.78 ± 0.02332
23.5
23
22.5
22
21.5
21
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

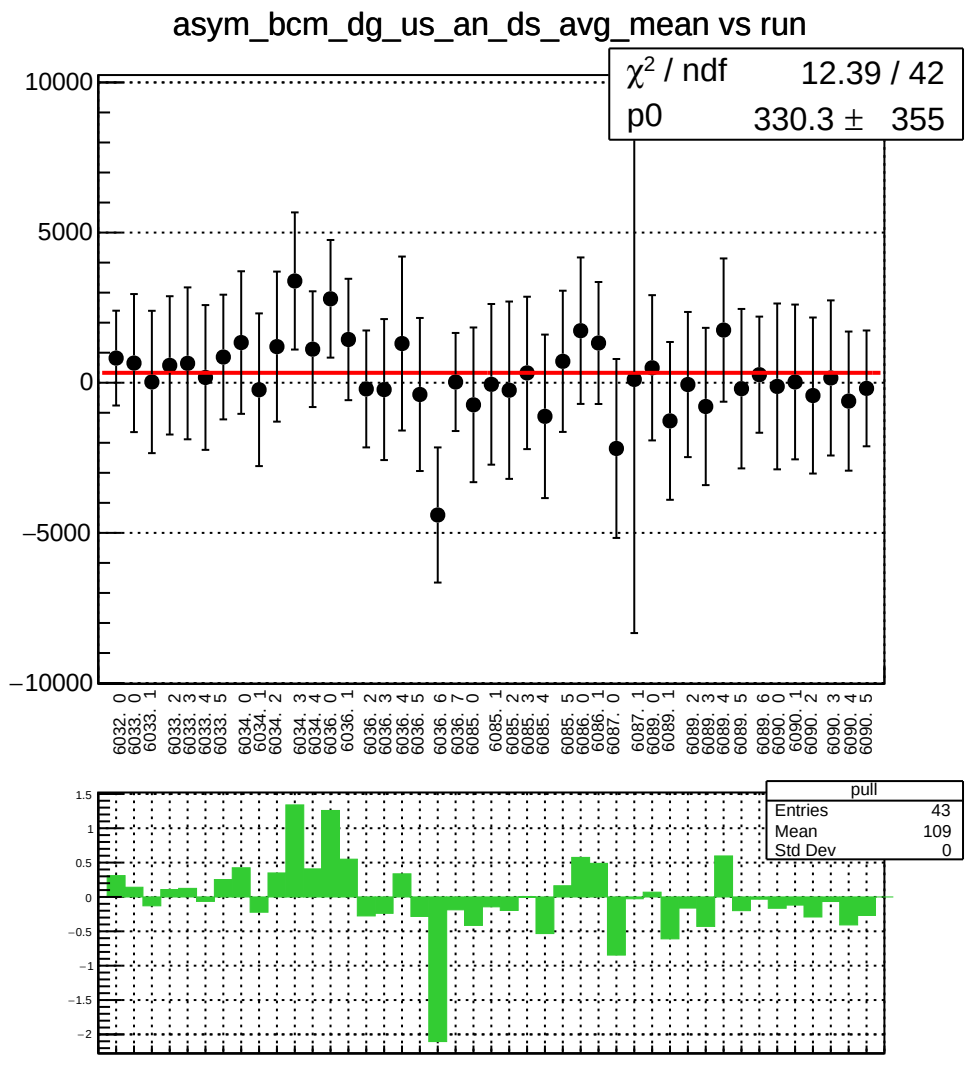

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 12.09 / 42
p0 347.8 ± 355.5
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 125.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

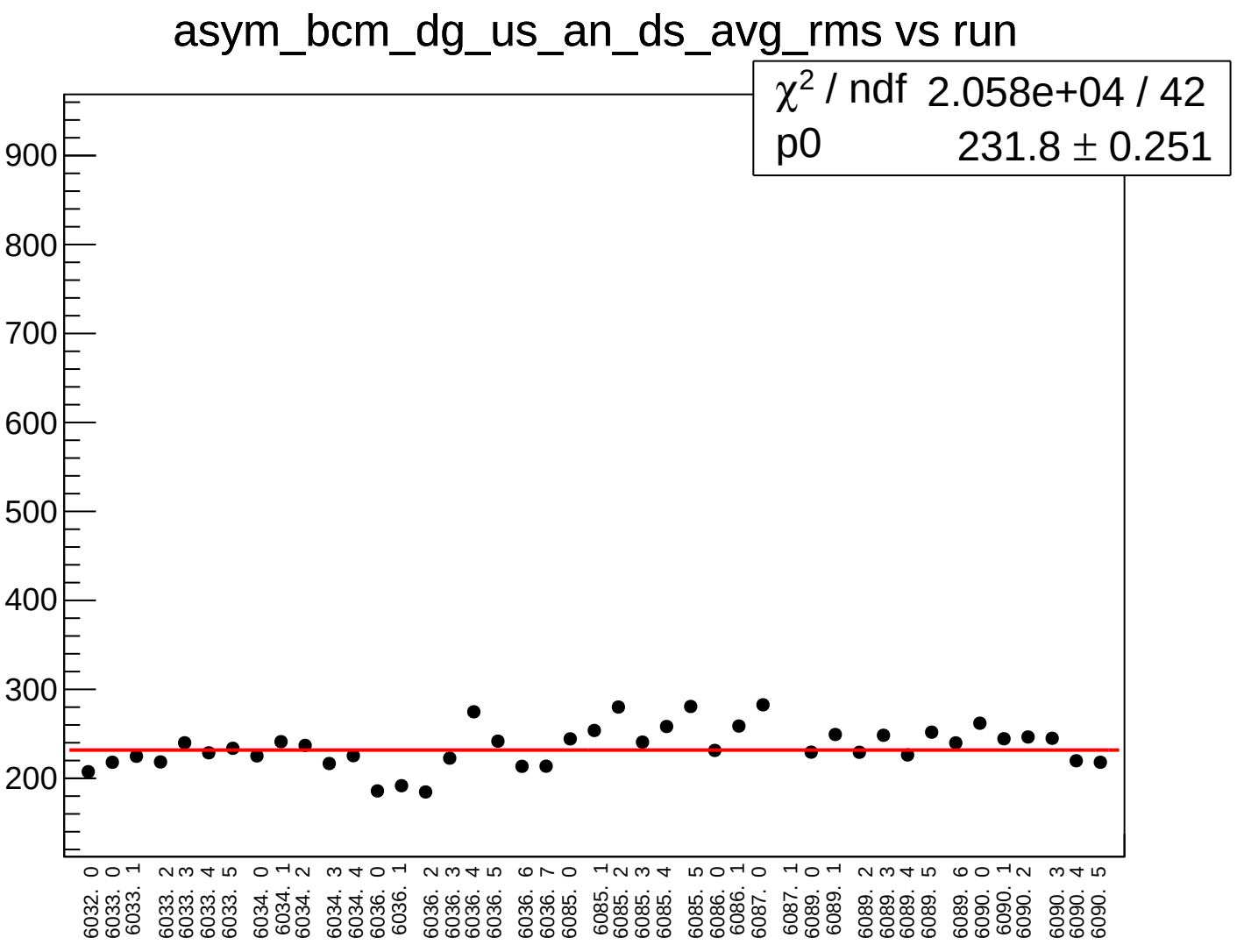

pull1D
Entries 43
Mean −0.01865
Std Dev 0.53
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

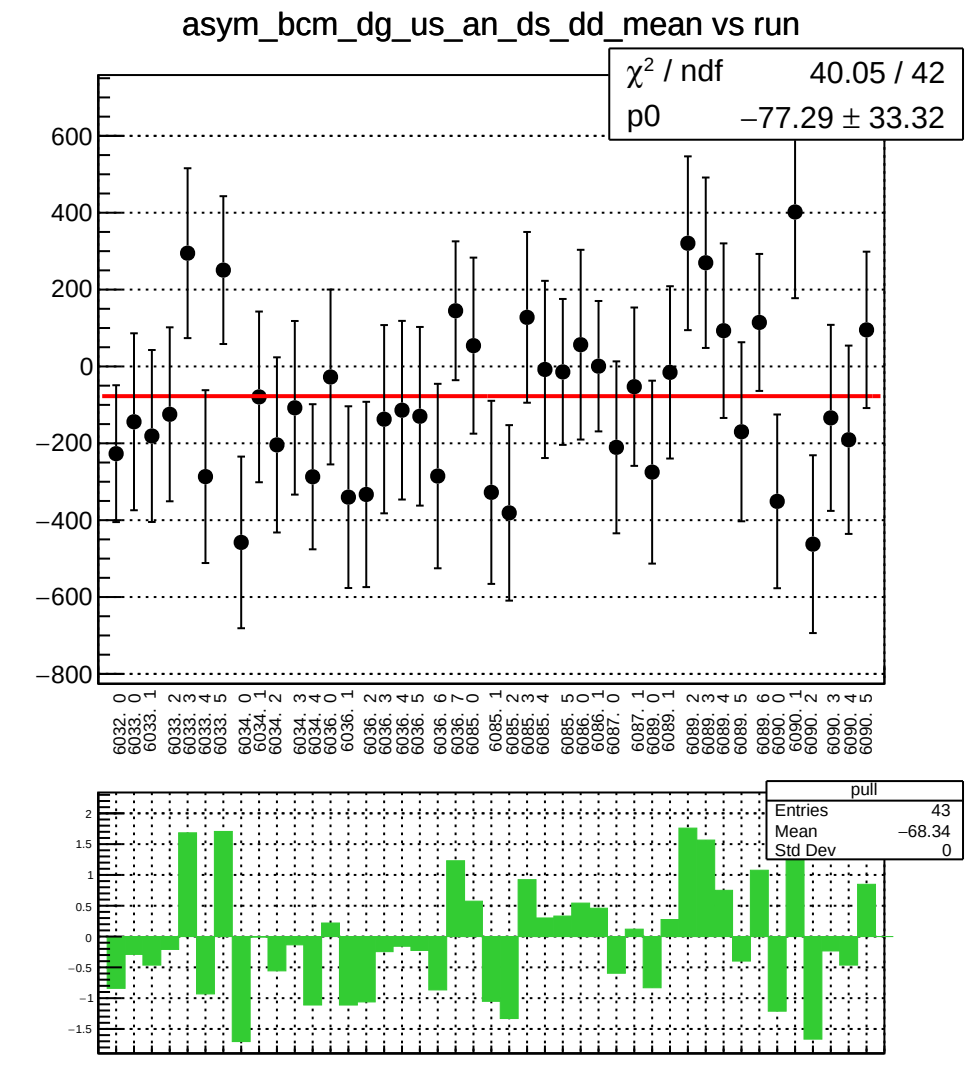

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2.16e+04 / 42
p0 232 ± 0.2514
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

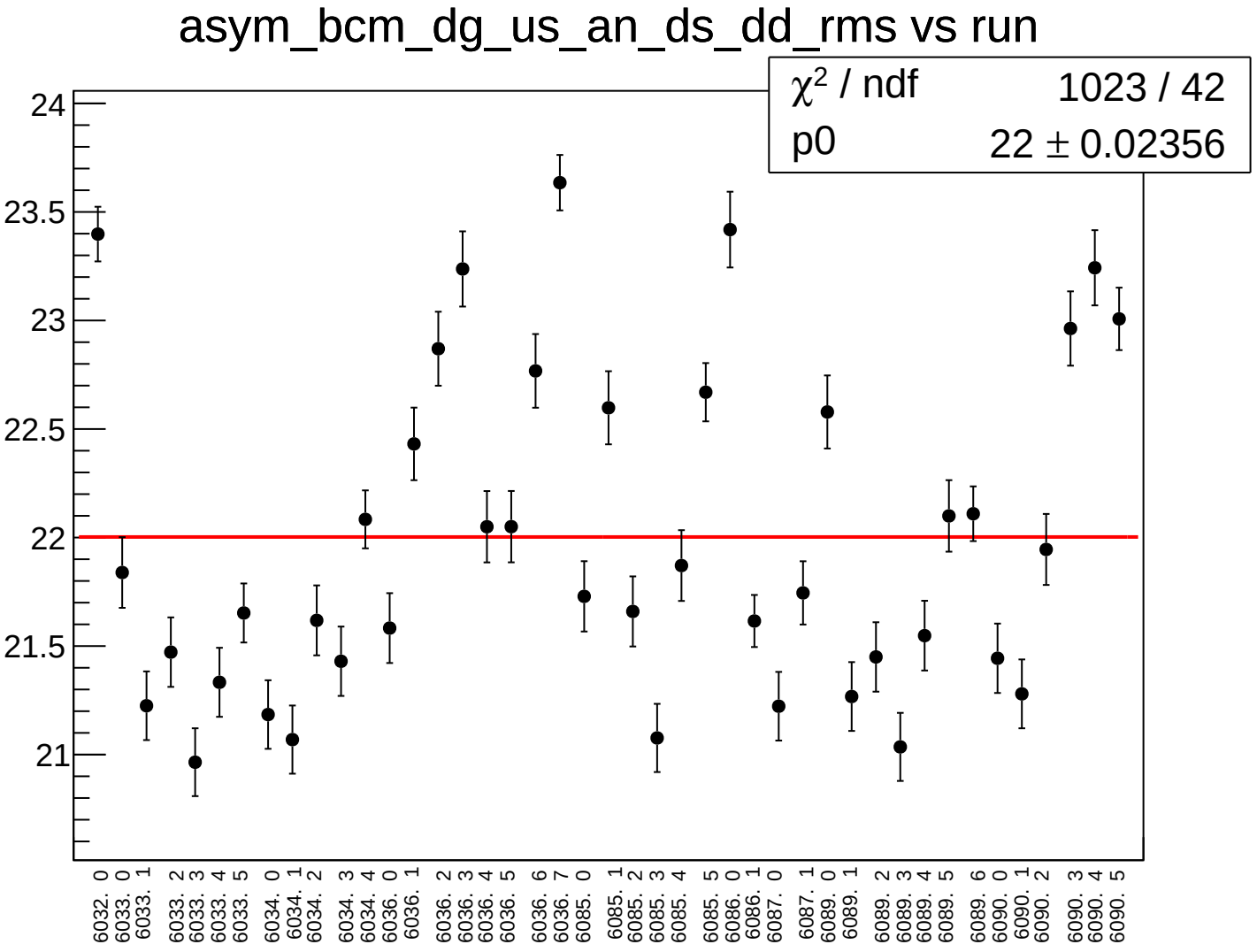

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 33.04 / 42
p0 26.7 ± 25.27
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −140.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01495
Std Dev 0.8765
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

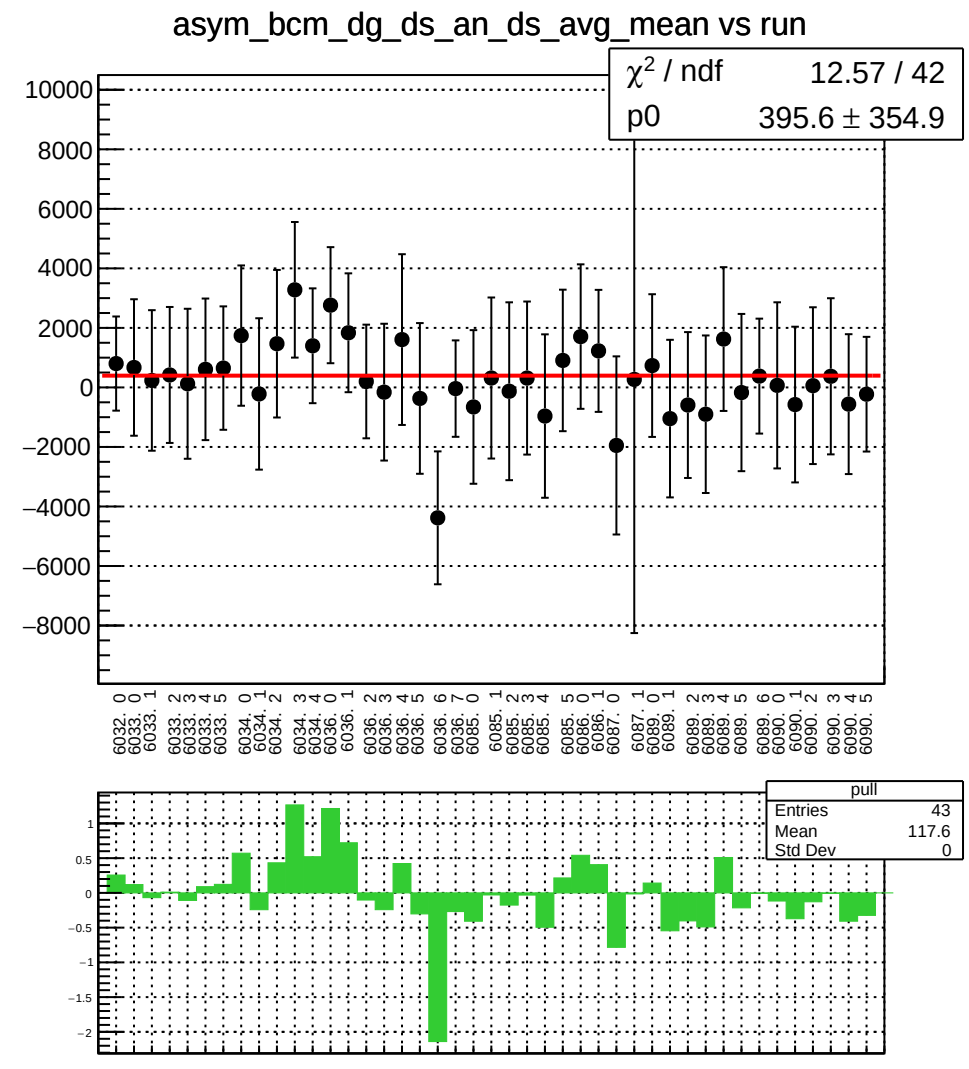

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2346 / 42
p0 16.68 ± 0.01787
19
18.5
18
17.5
17
16.5
16
15.5
15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

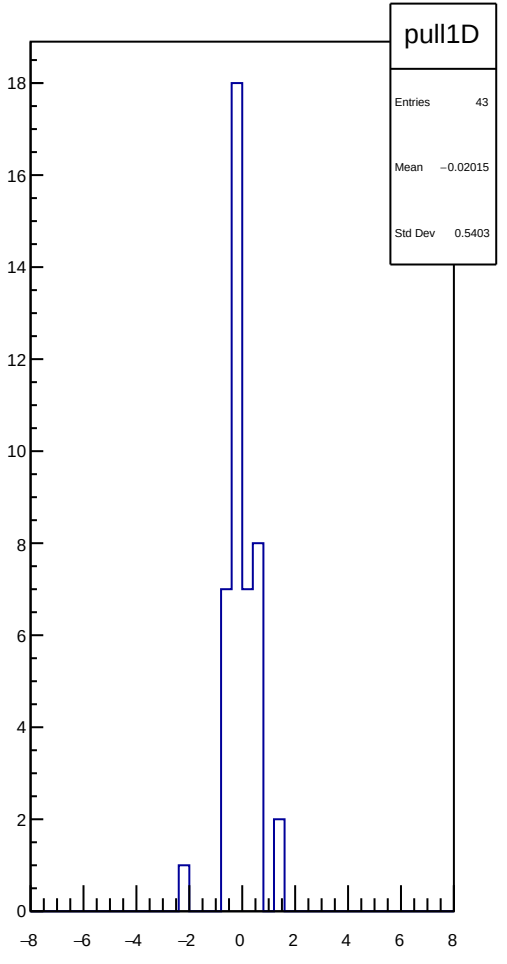

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 12.39 / 42
p0 330.3 ± 355
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 109
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02122
Std Dev 0.5363
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

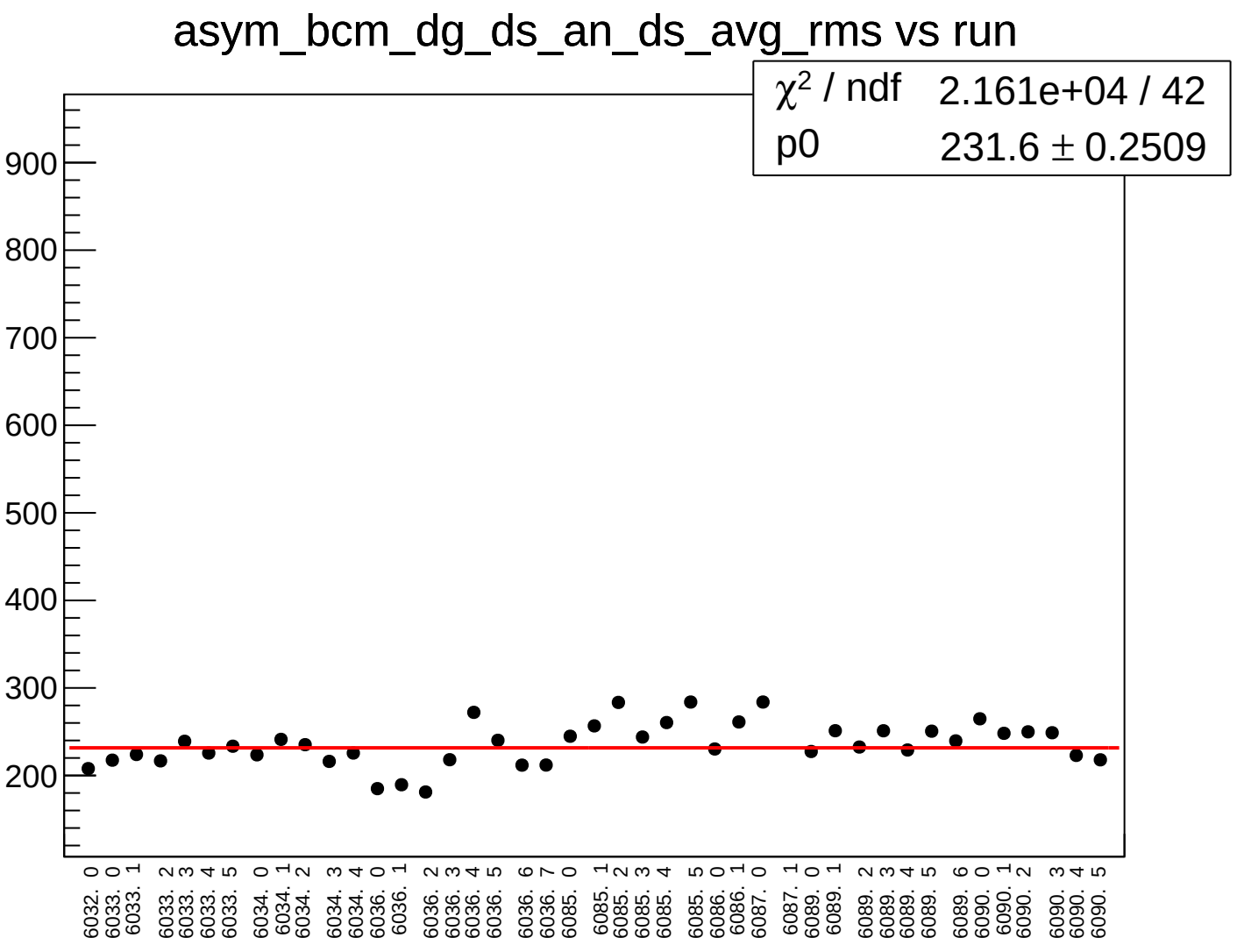

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2.058e+04 / 42
p0 231.8 ± 0.251
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

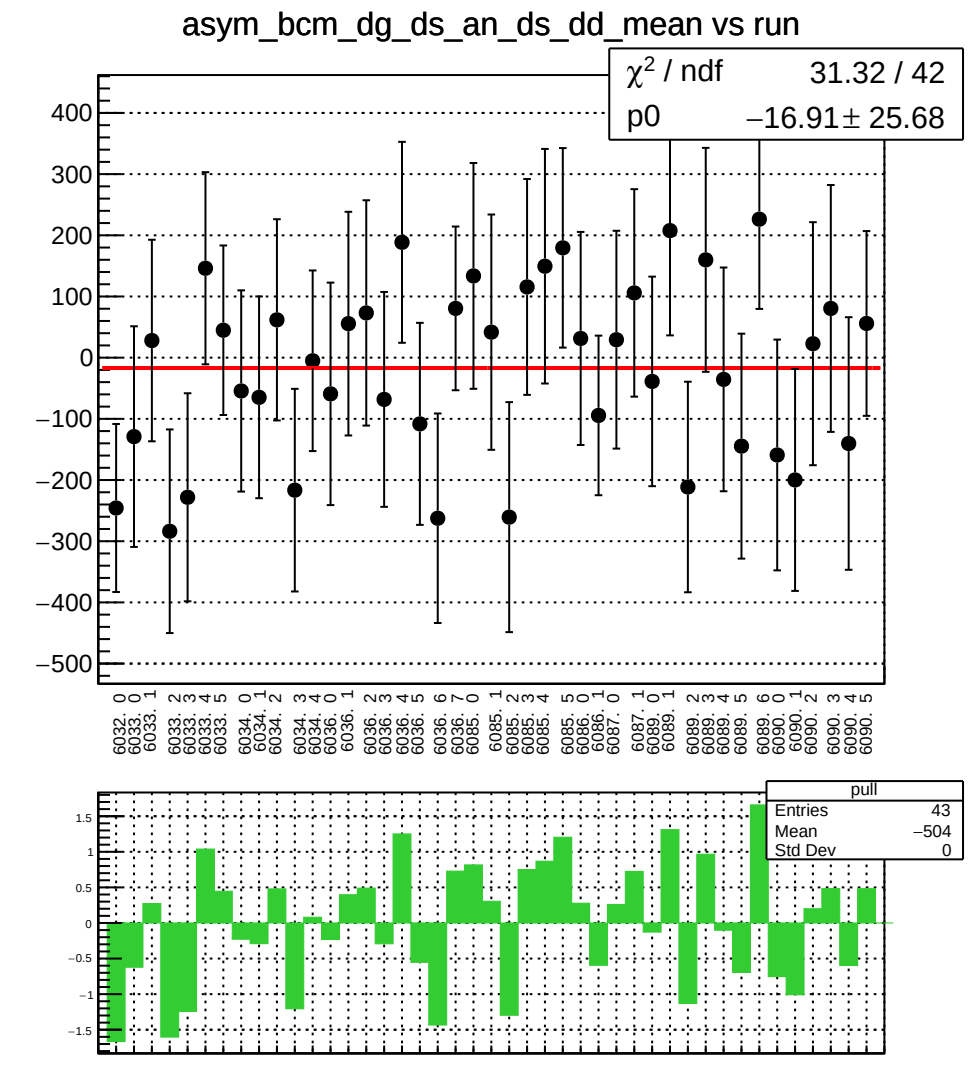

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 40.05 / 42
p0 −77.29 ± 33.32
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −68.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02766
Std Dev 0.9647
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

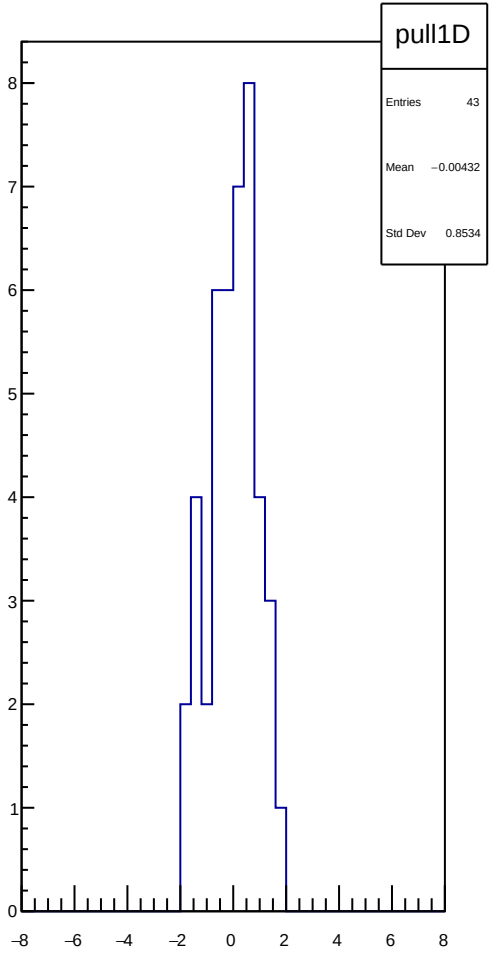

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1023 / 42
p0 22 ± 0.02356
24
23.5
23
22.5
22
21.5
21
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

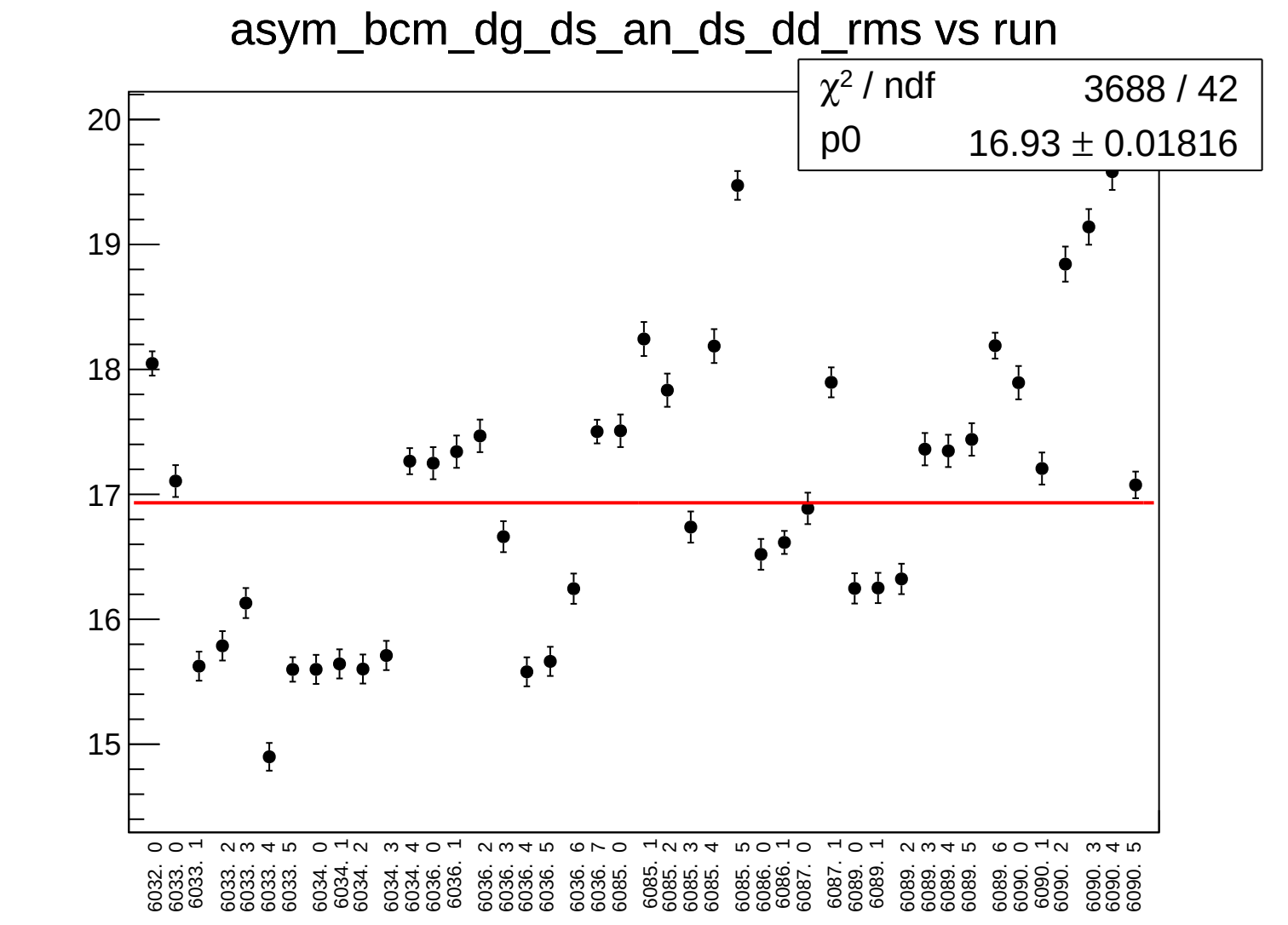

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 12.57 / 42
p0 395.6 ± 354.9
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 117.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

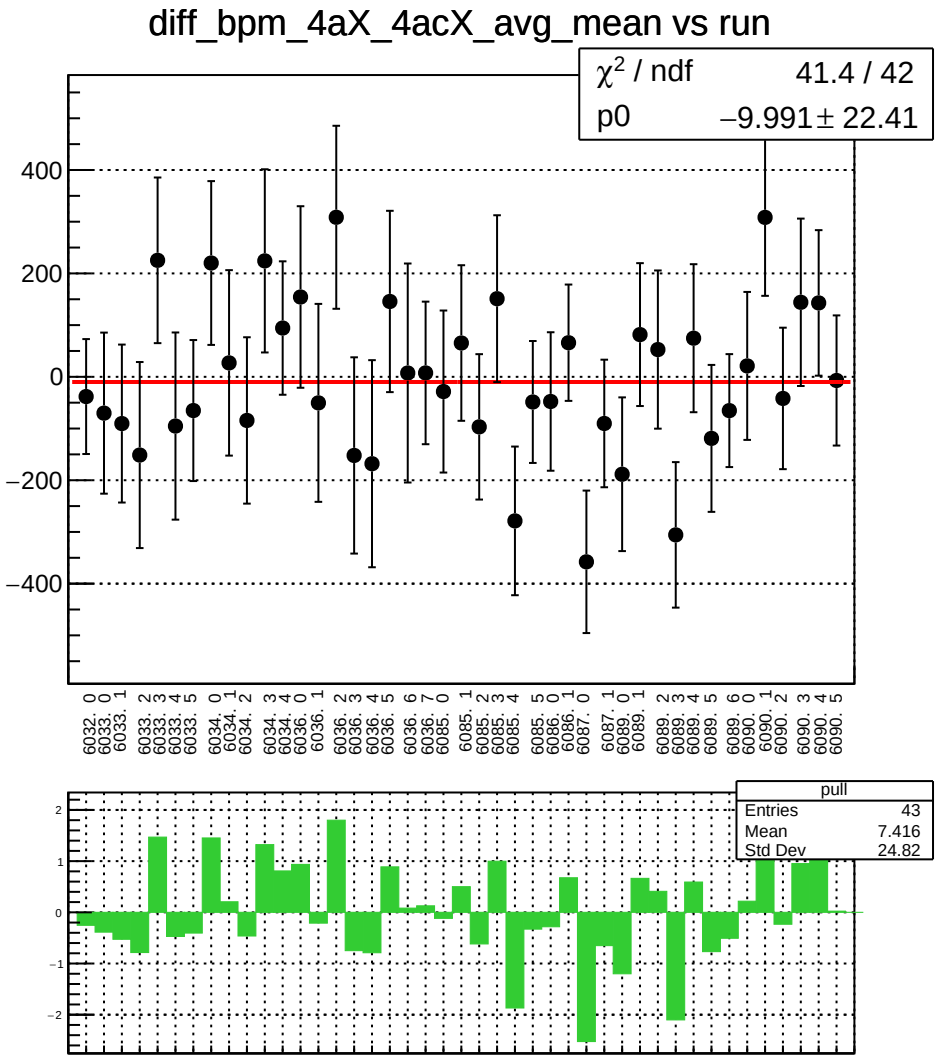

pull1D
Entries 43
Mean −0.02015
Std Dev 0.5403
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

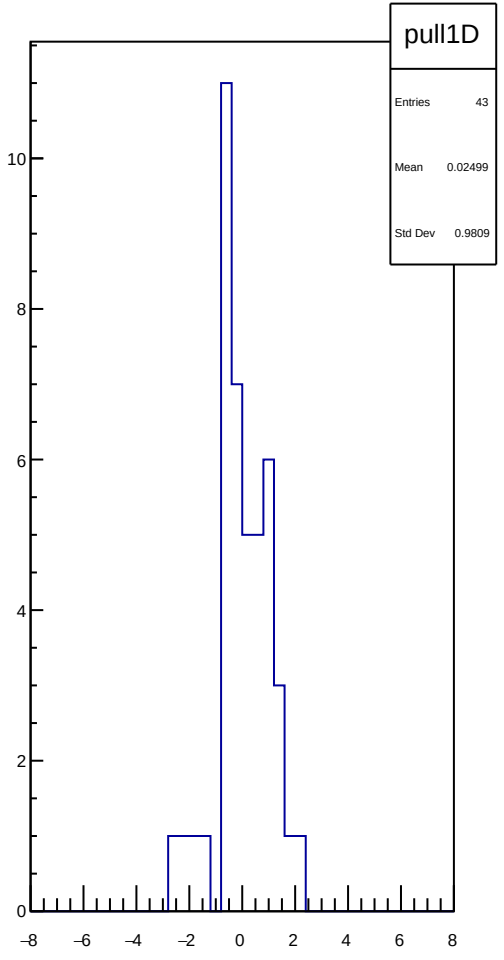

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2.161e+04 / 42
p0 231.6 ± 0.2509
900
800
700
600
500
400
300
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

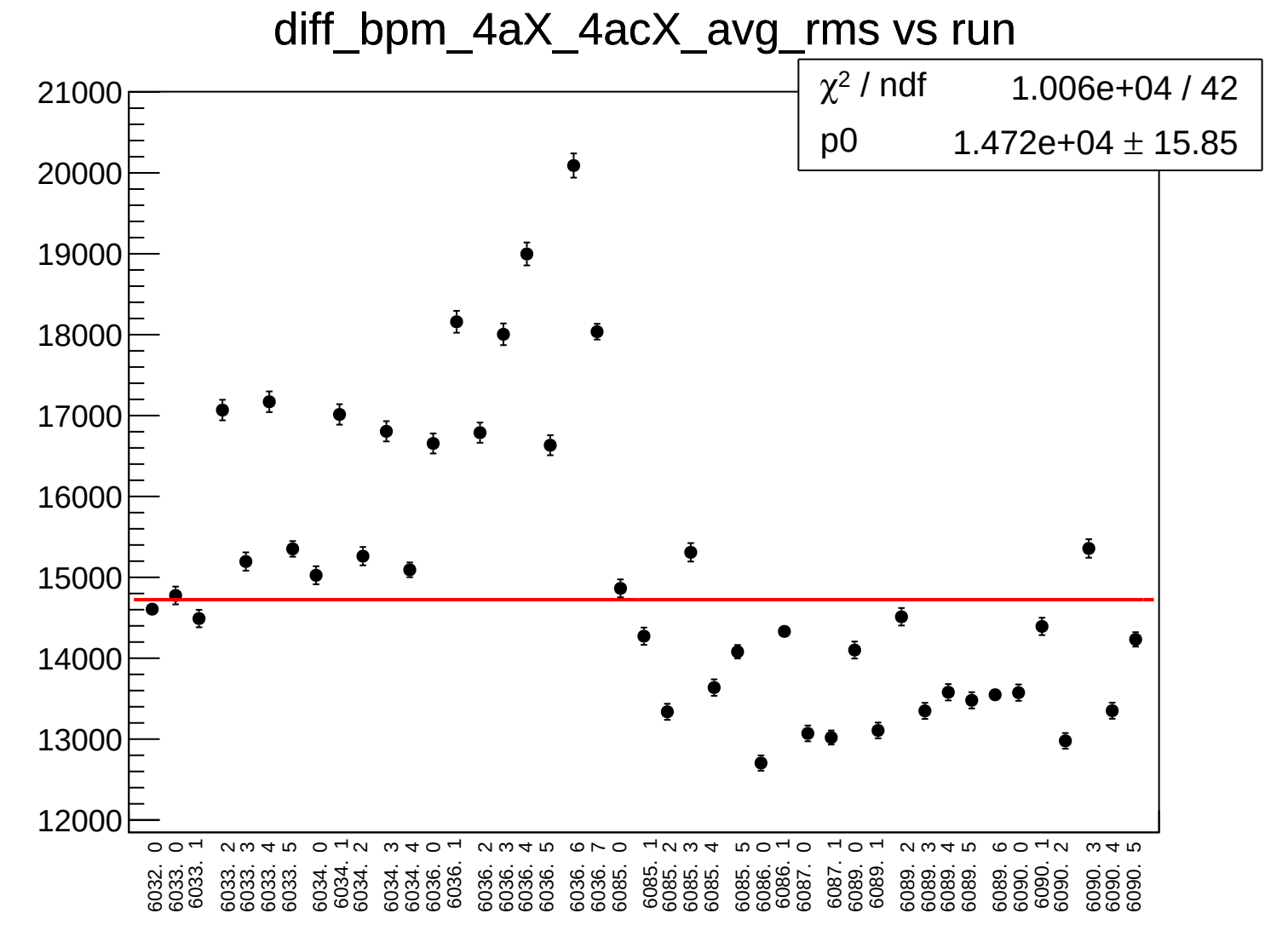

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 31.32 / 42
p0 −16.91± 25.68
pull
Entries 43
Mean −504
Std Dev 0

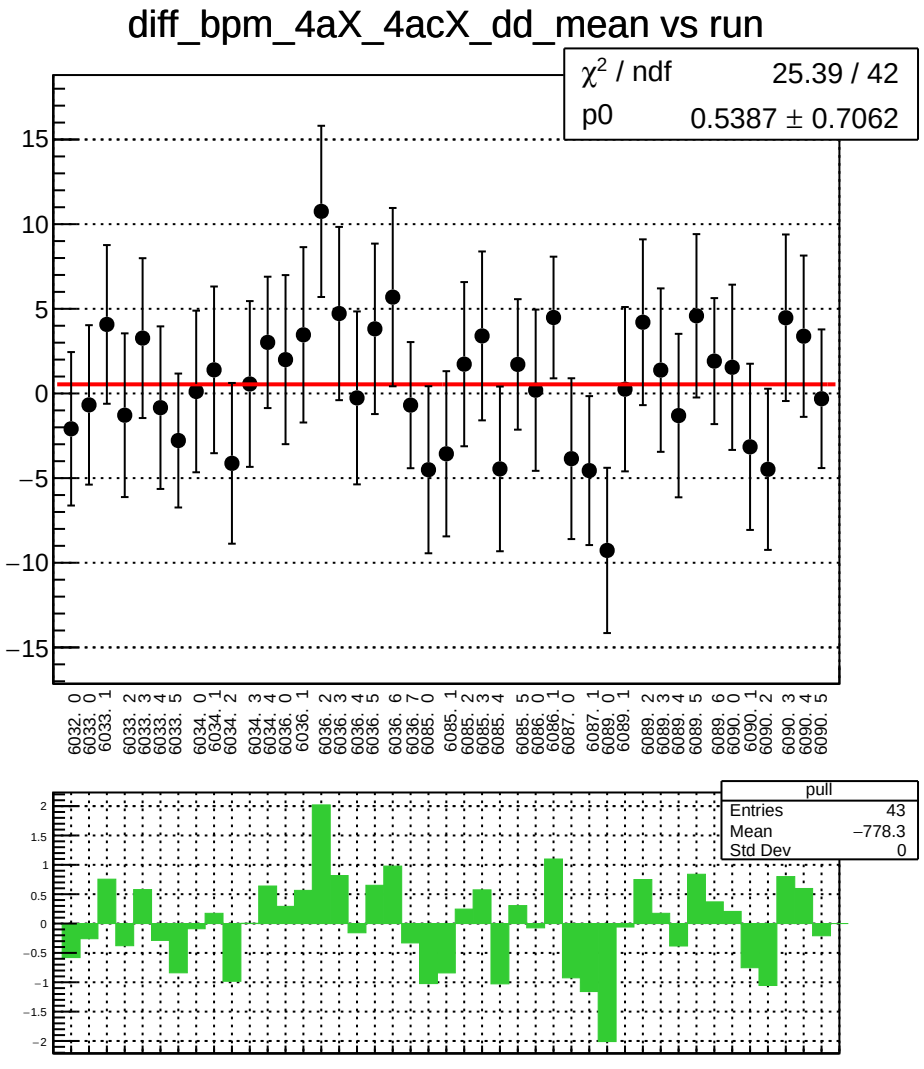

pull1D
Entries 43
Mean −0.00432
Std Dev 0.8534

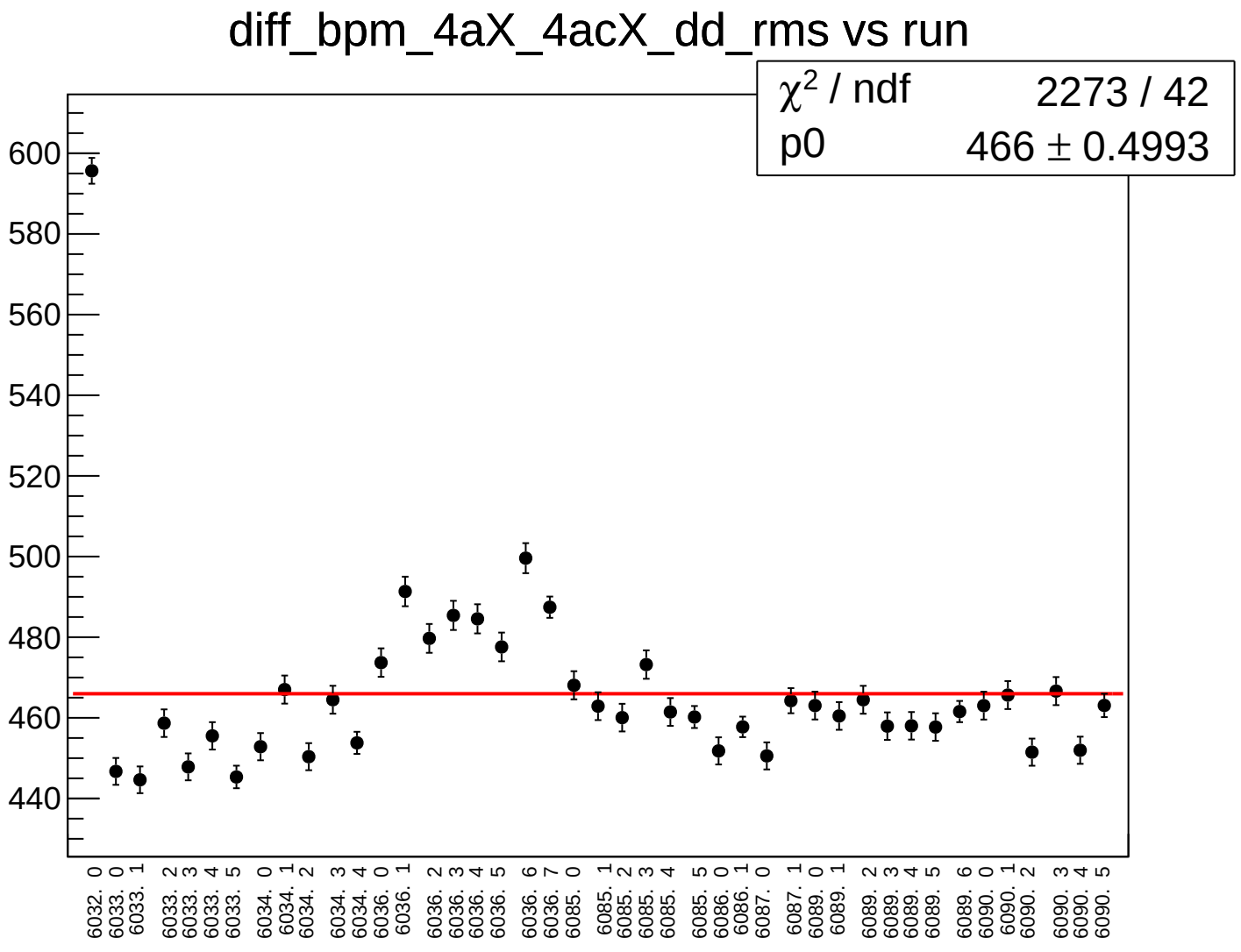

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 3688 / 42
p0 16.93 ± 0.01816
20
19
18
17
16
15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

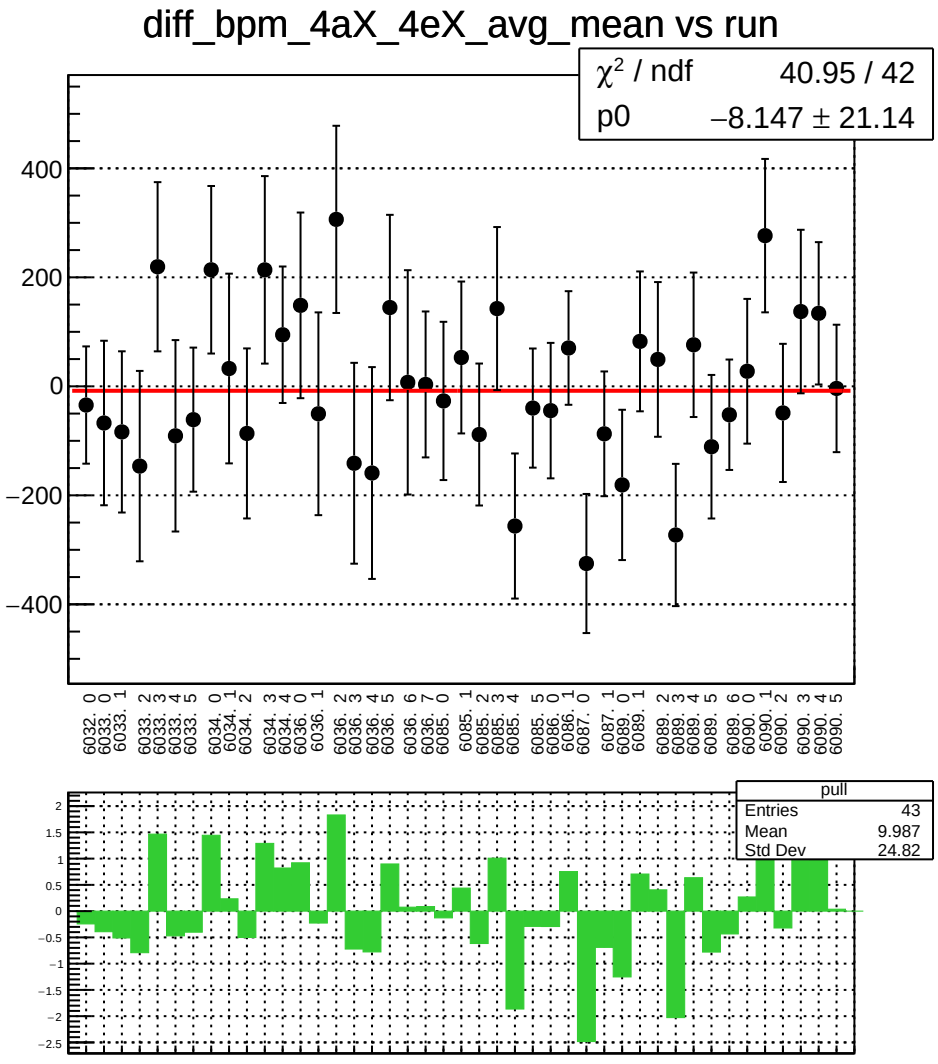

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 41.4 / 42
p0 −9.991 ± 22.41
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.416
Std Dev 24.82
2
1
0
−1
−2

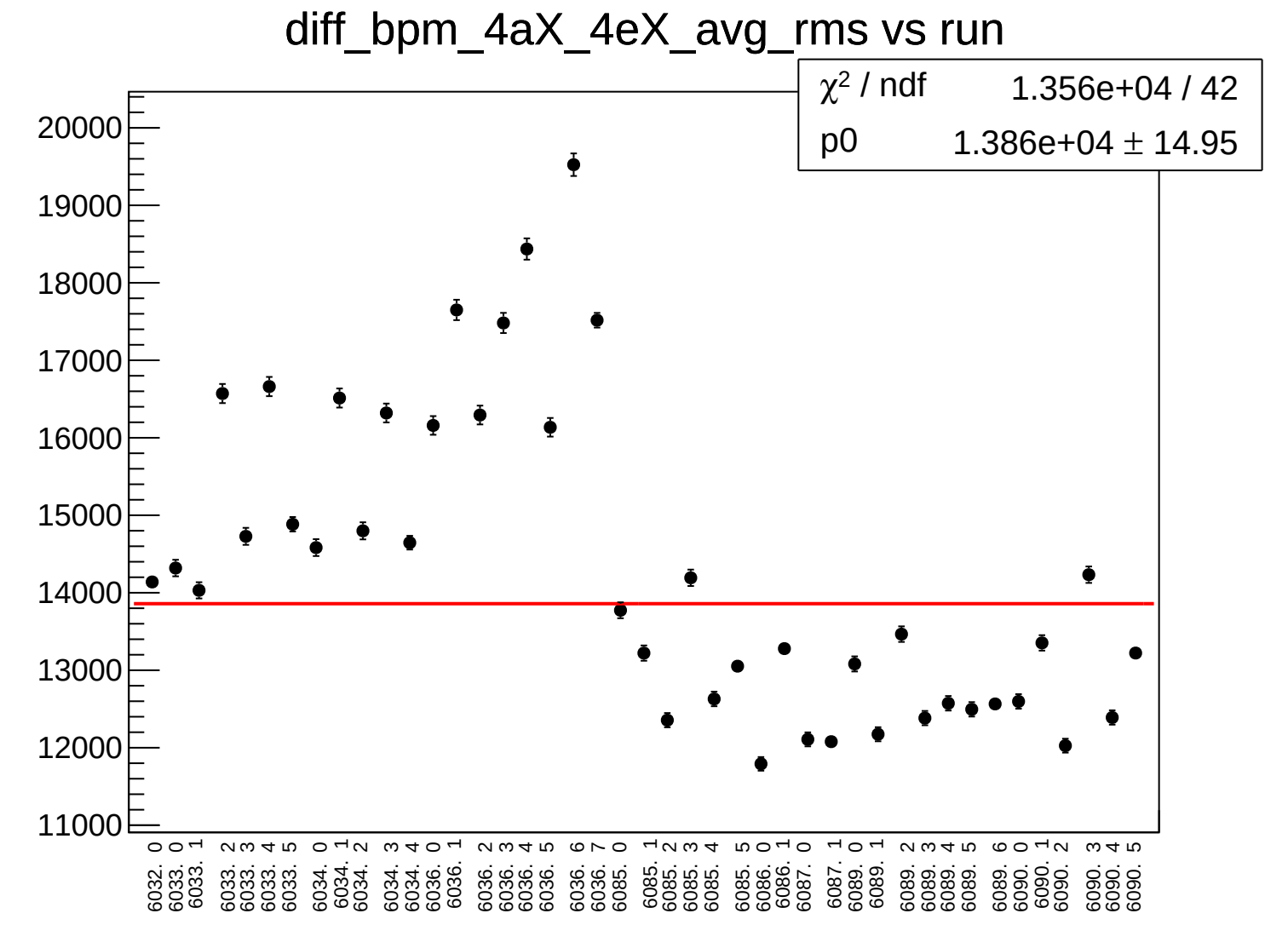

pull1D
Entries 43
Mean 0.02499
Std Dev 0.9809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

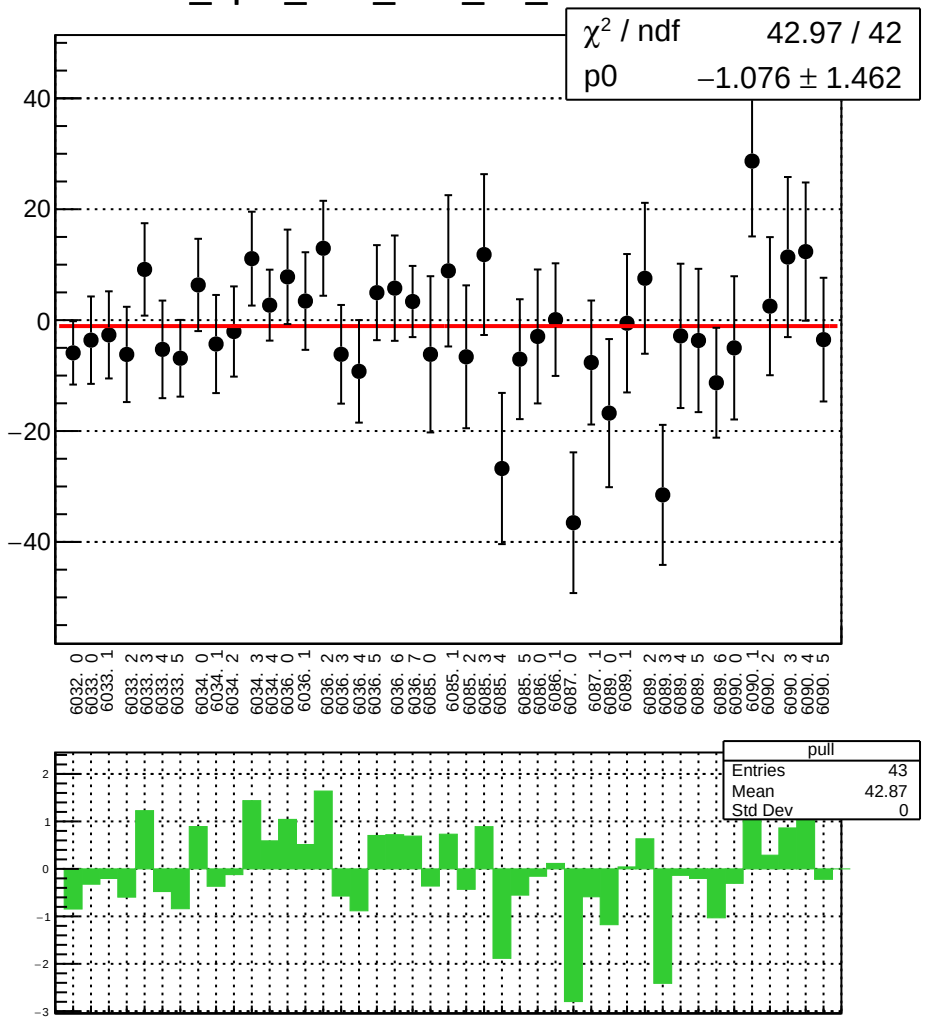

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.006e+04 / 42
p0 1.472e+04 ± 15.85
21000
20000
19000
18000
17000
16000
15000
14000
13000
12000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

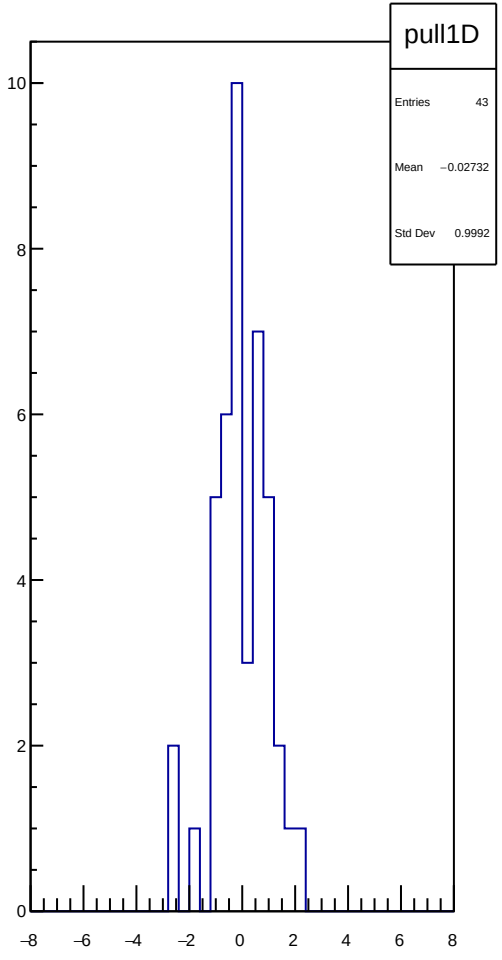

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 25.39 / 42
p0 0.5387 ± 0.7062
15
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −778.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0005683
Std Dev 0.7685
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

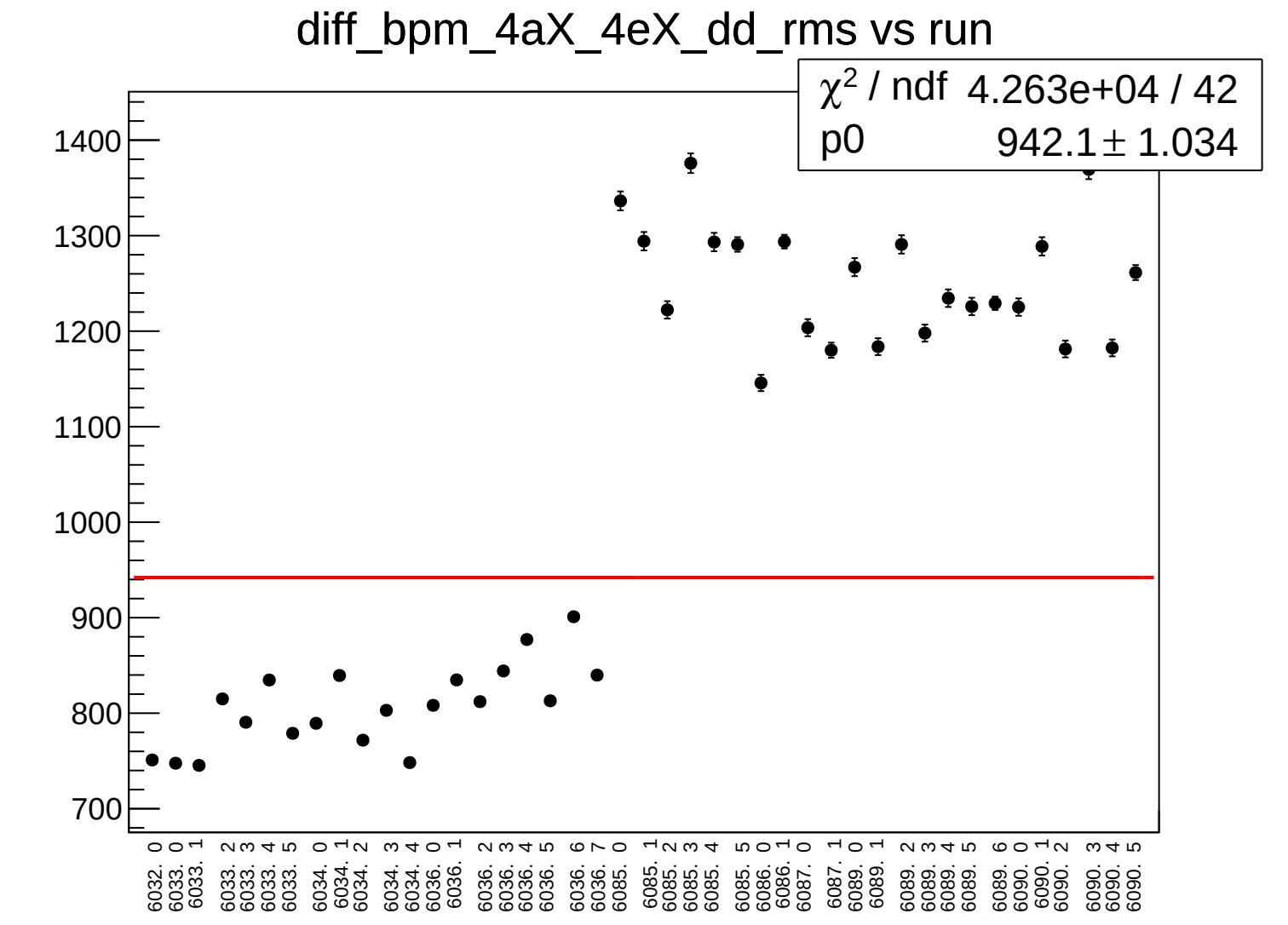

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 2273 / 42
p0 466 ± 0.4993
600
580
560
540
520
500
480
460
440
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

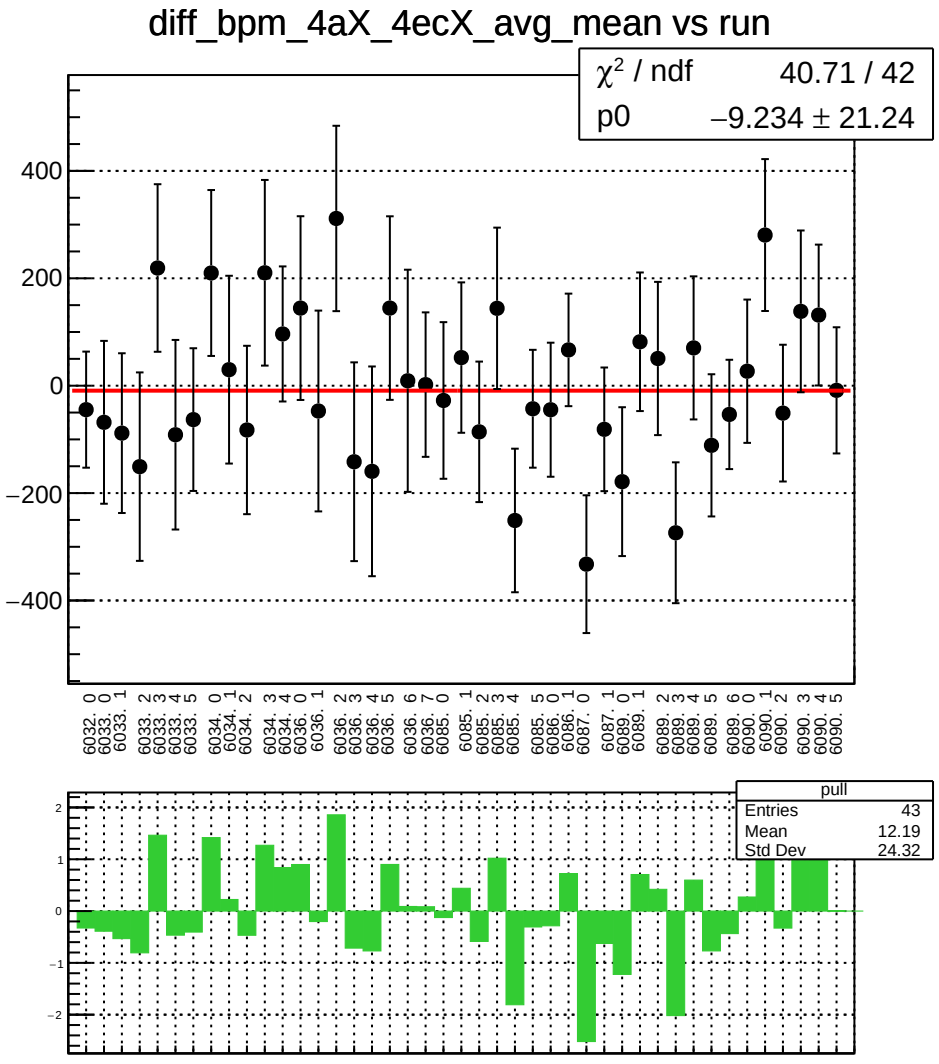

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 40.95 / 42
p0 −8.147 ± 21.14
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.987
Std Dev 24.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02755
Std Dev 0.9755
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

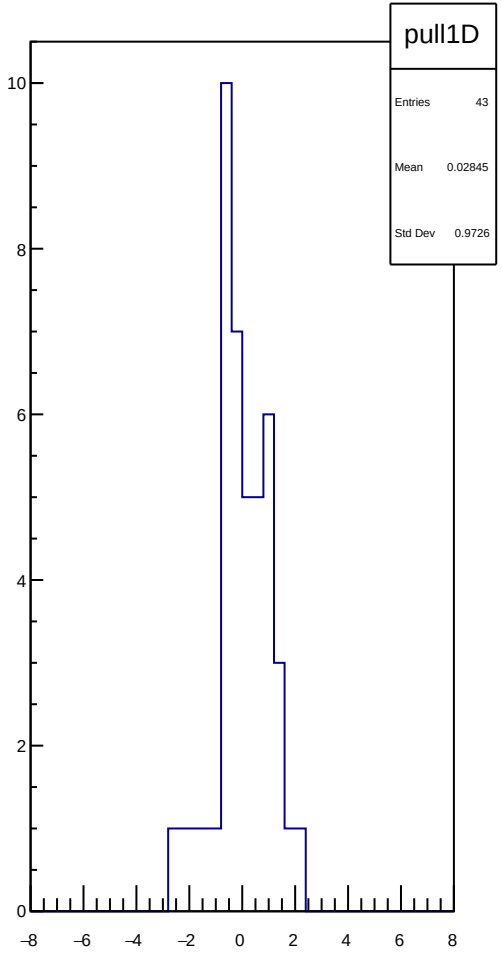

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.356e+04 / 42
p0 1.386e+04 ± 14.95
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

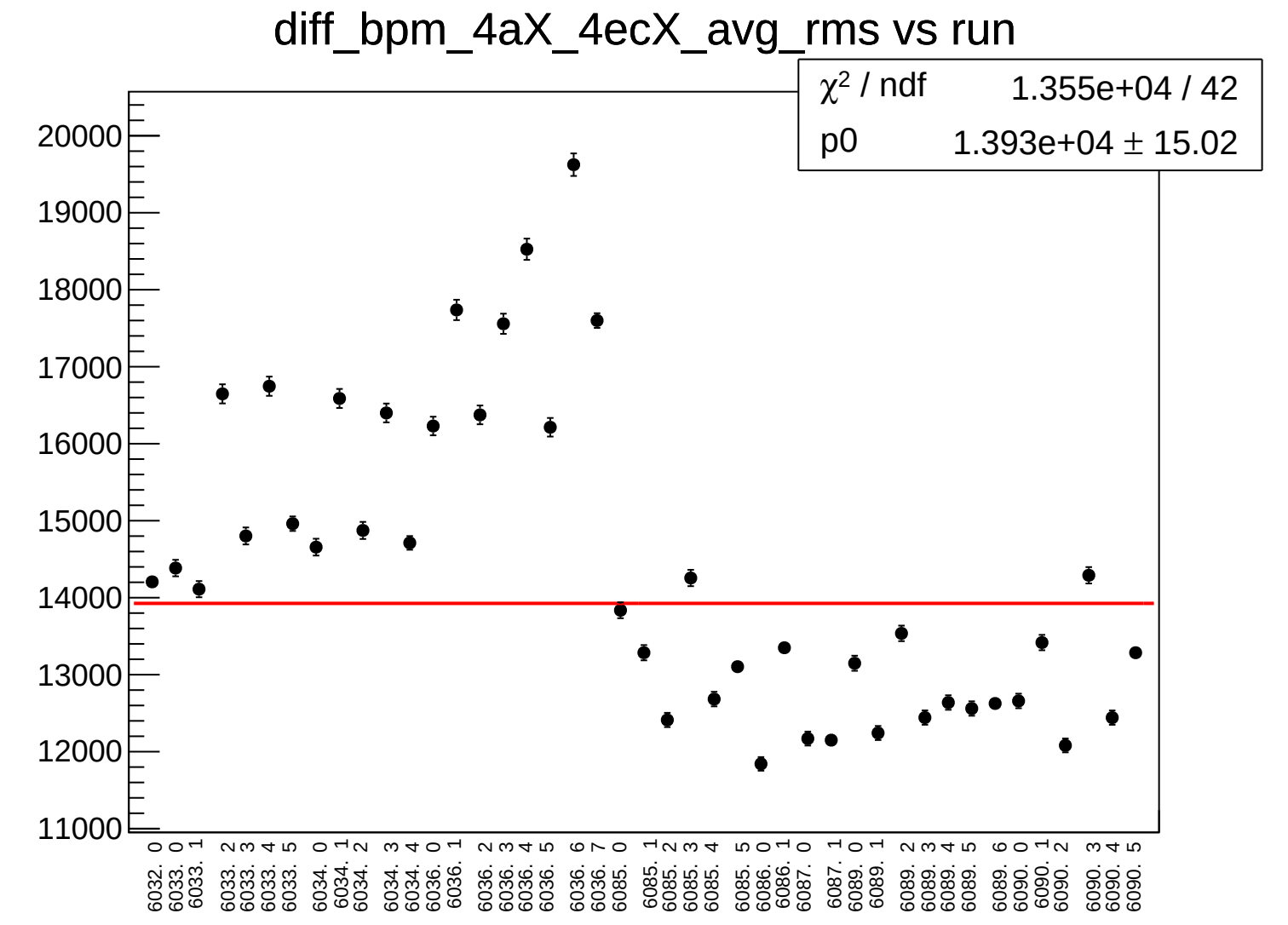

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 42.97 / 42
p0 −1.076 ± 1.462
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 42.87
Std Dev 0
2
1
0
−1
−2
−3

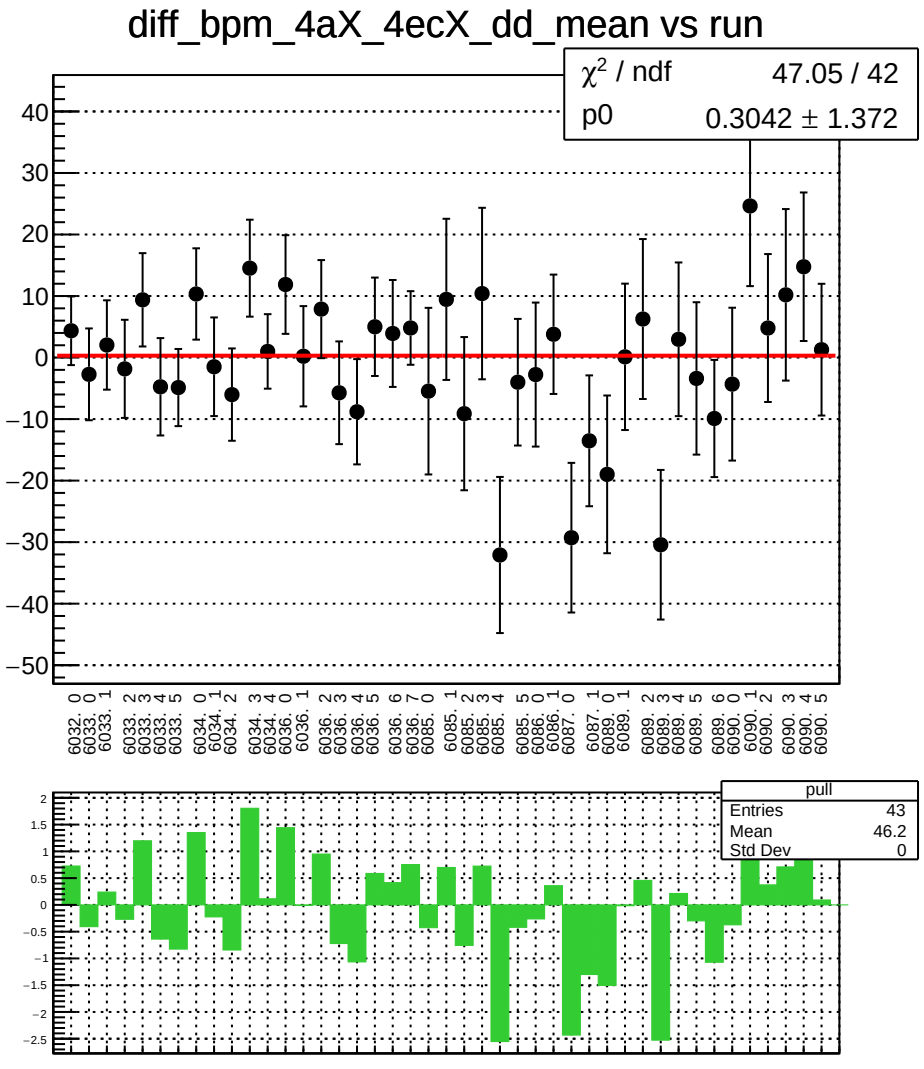

pull1D
Entries 43
Mean −0.02732
Std Dev 0.9992
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

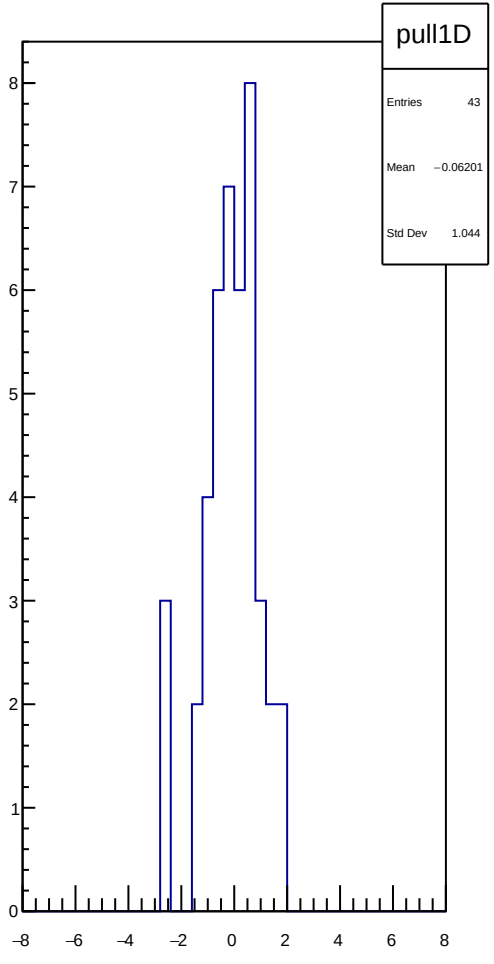

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4.263e+04 / 42
p0 942.1 ± 1.034
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

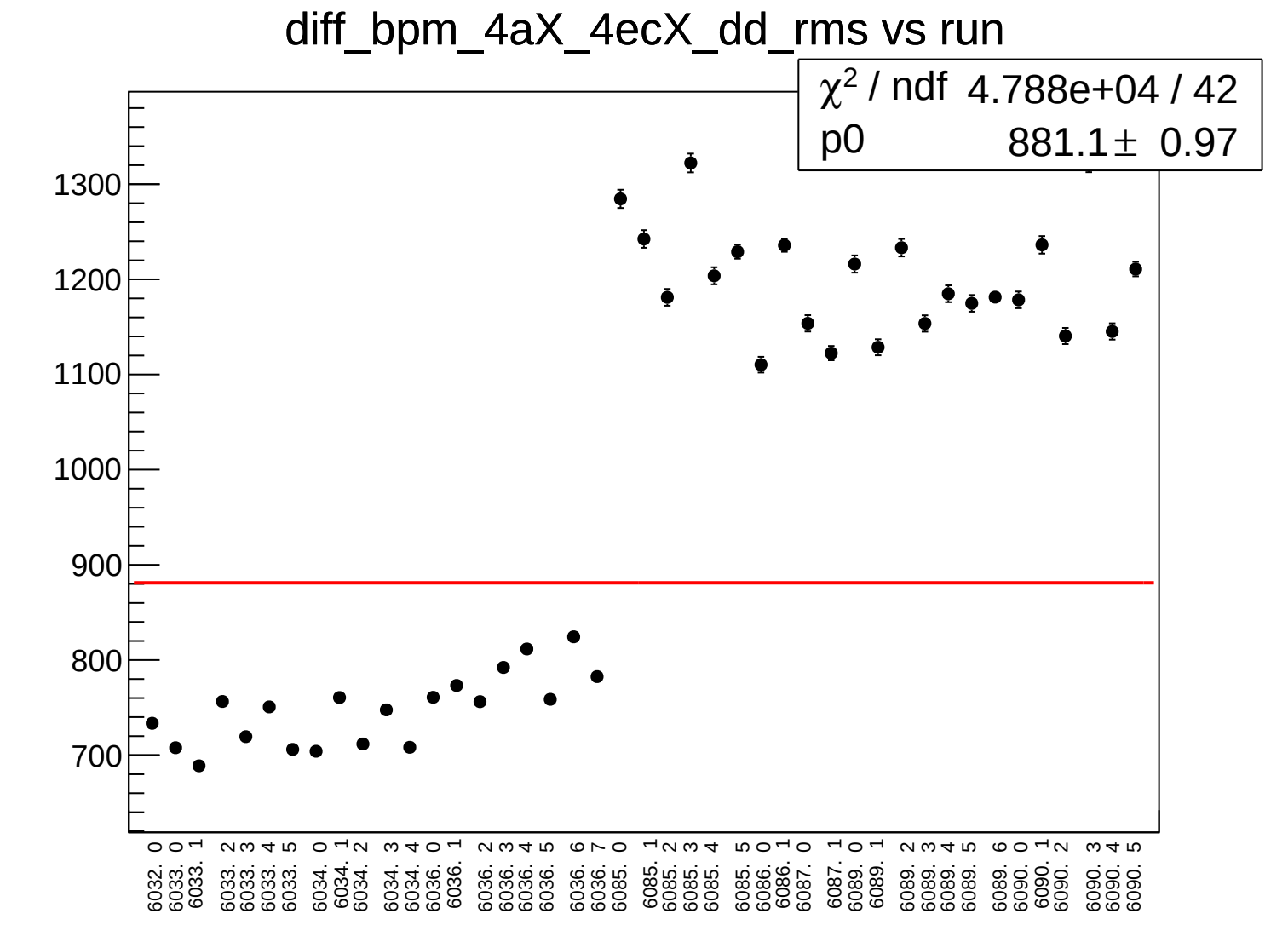

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 40.71 / 42
p0 −9.234 ± 21.24
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.19
Std Dev 24.32
2
1
0
−1
−2

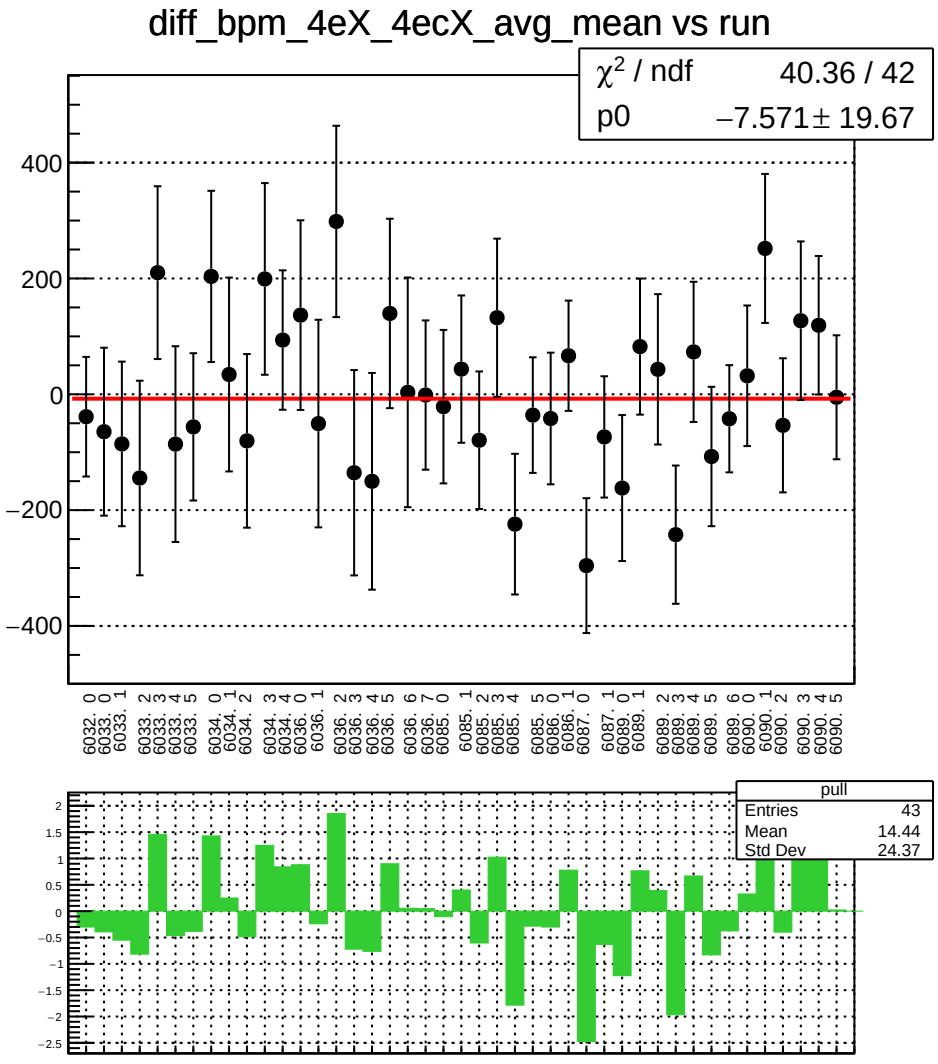

pull1D
Entries 43
Mean 0.02845
Std Dev 0.9726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

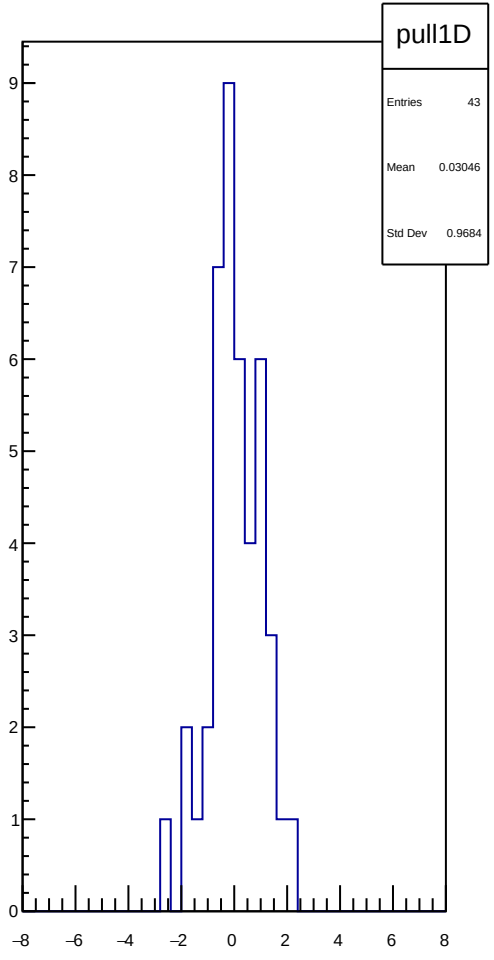

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.355e+04 / 42
p0 1.393e+04 ± 15.02
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

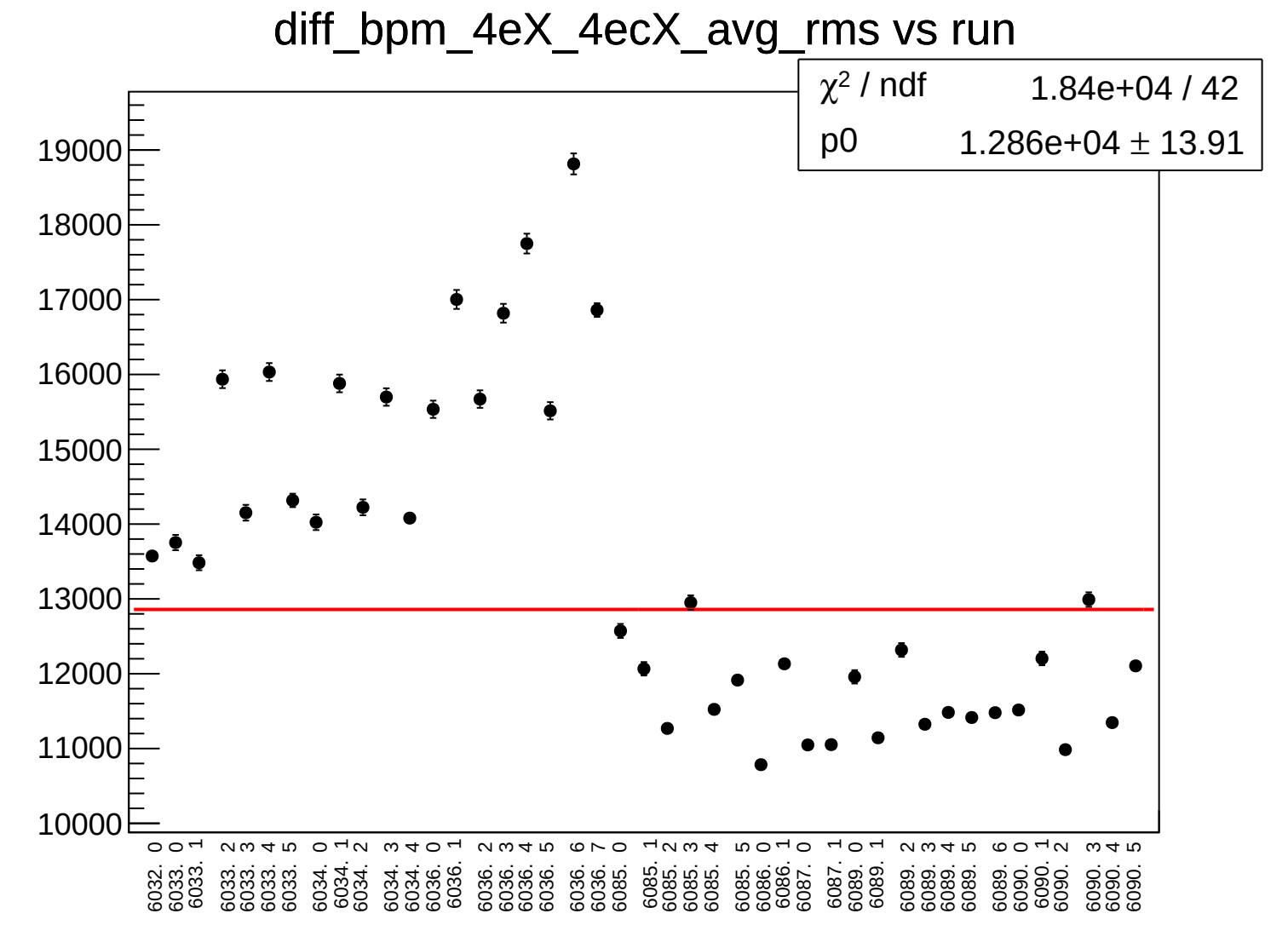

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 47.05 / 42
p0 0.3042 ± 1.372
pull
Entries 43
Mean 46.2
Std Dev 0

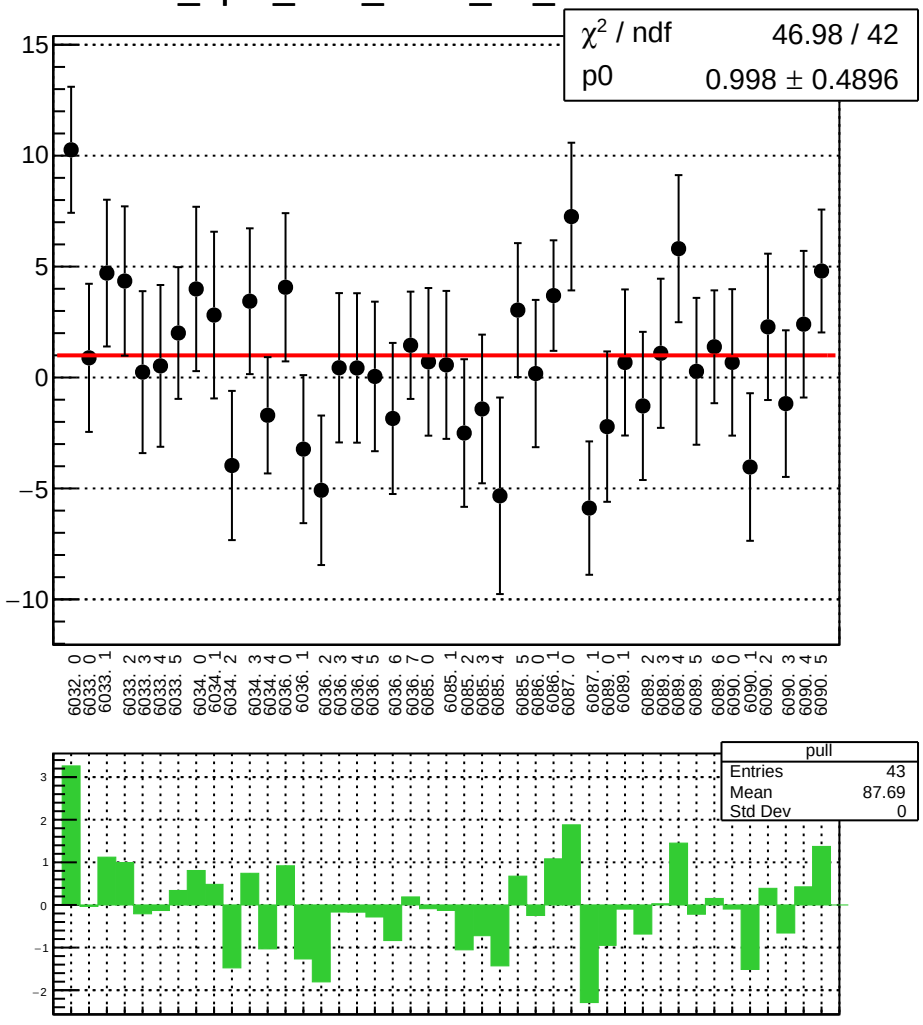

pull1D
Entries 43
Mean −0.06201
Std Dev 1.044

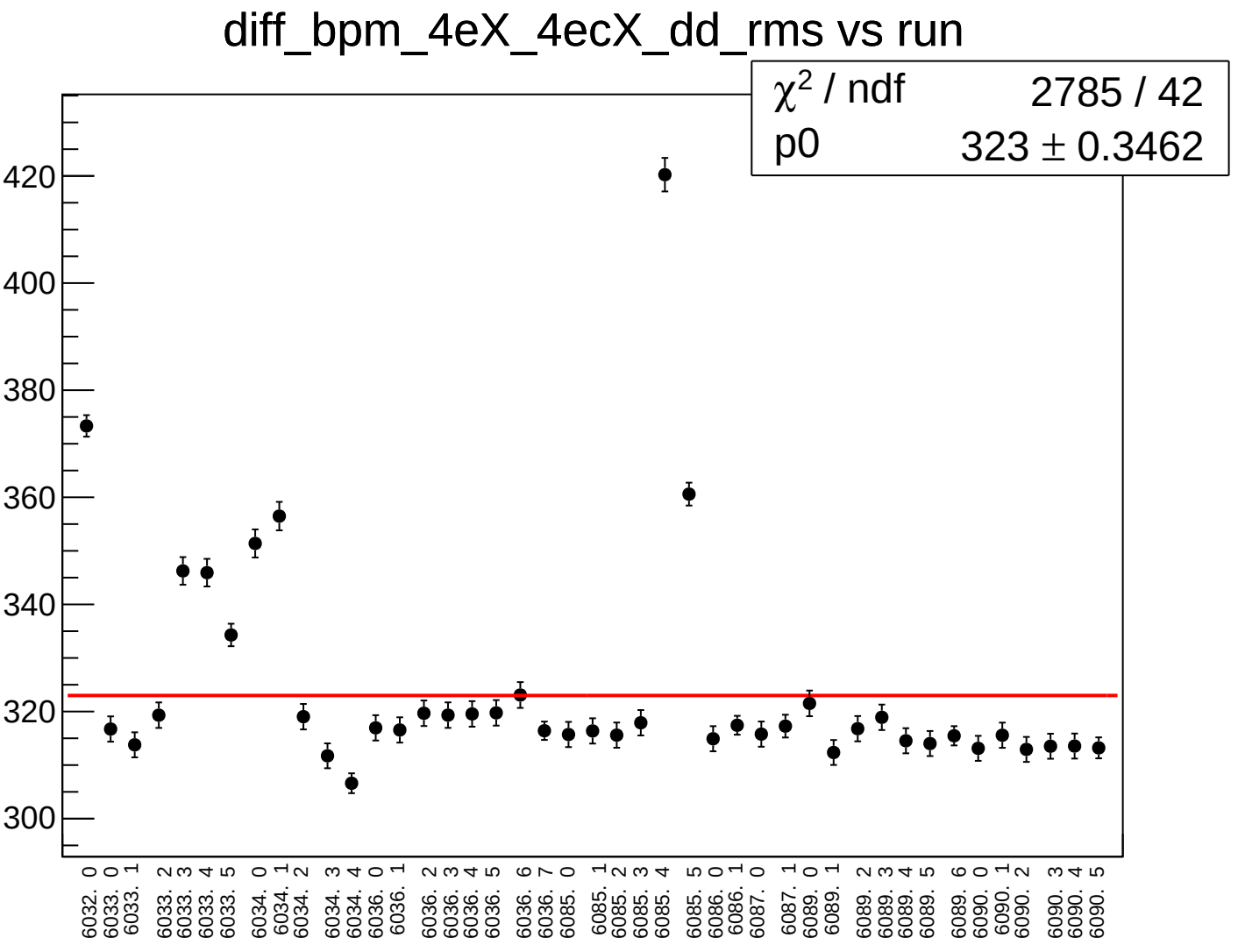

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 4.788e+04 / 42
p0 881.1 ± 0.97
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

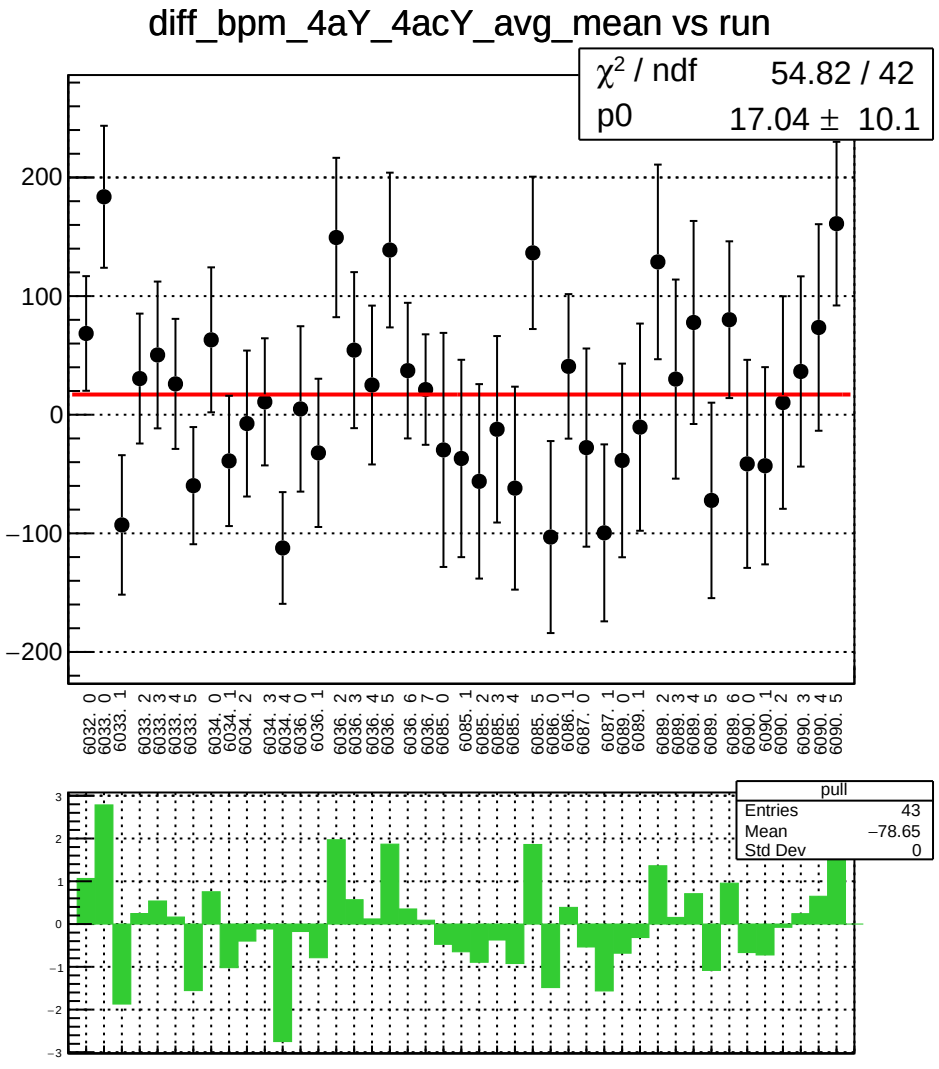

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 40.36 / 42
p0 −7.571± 19.67
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.44
Std Dev 24.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

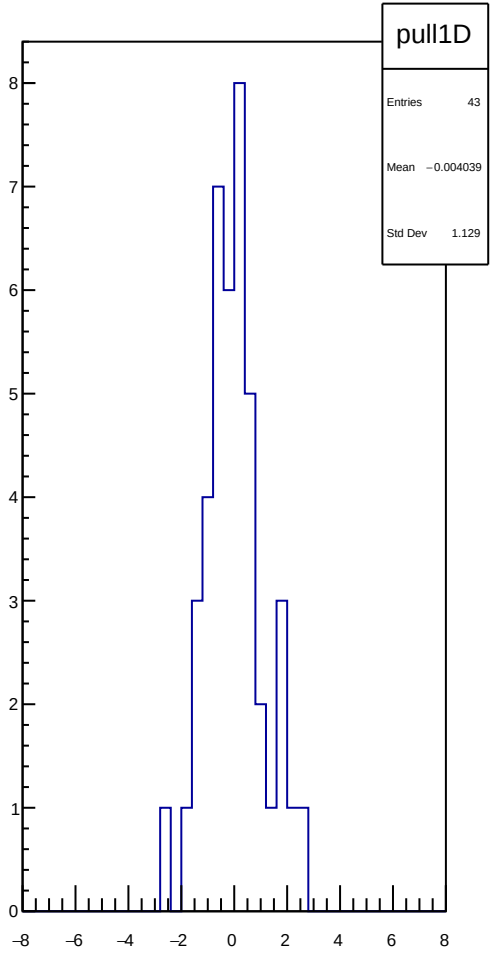

pull1D
Entries 43
Mean 0.03046
Std Dev 0.9684
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

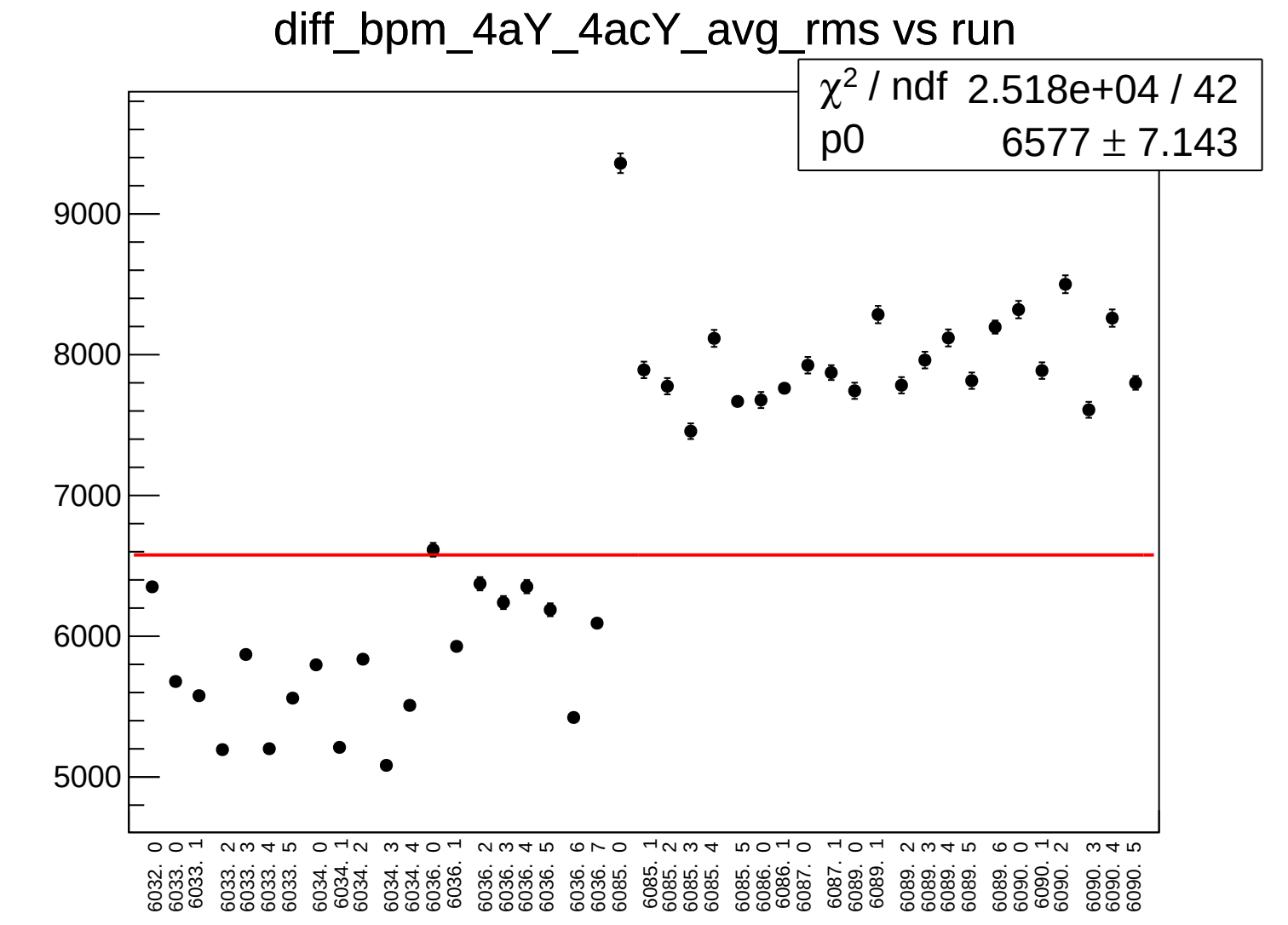

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.84e+04 / 42
p0 1.286e+04 ± 13.91
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

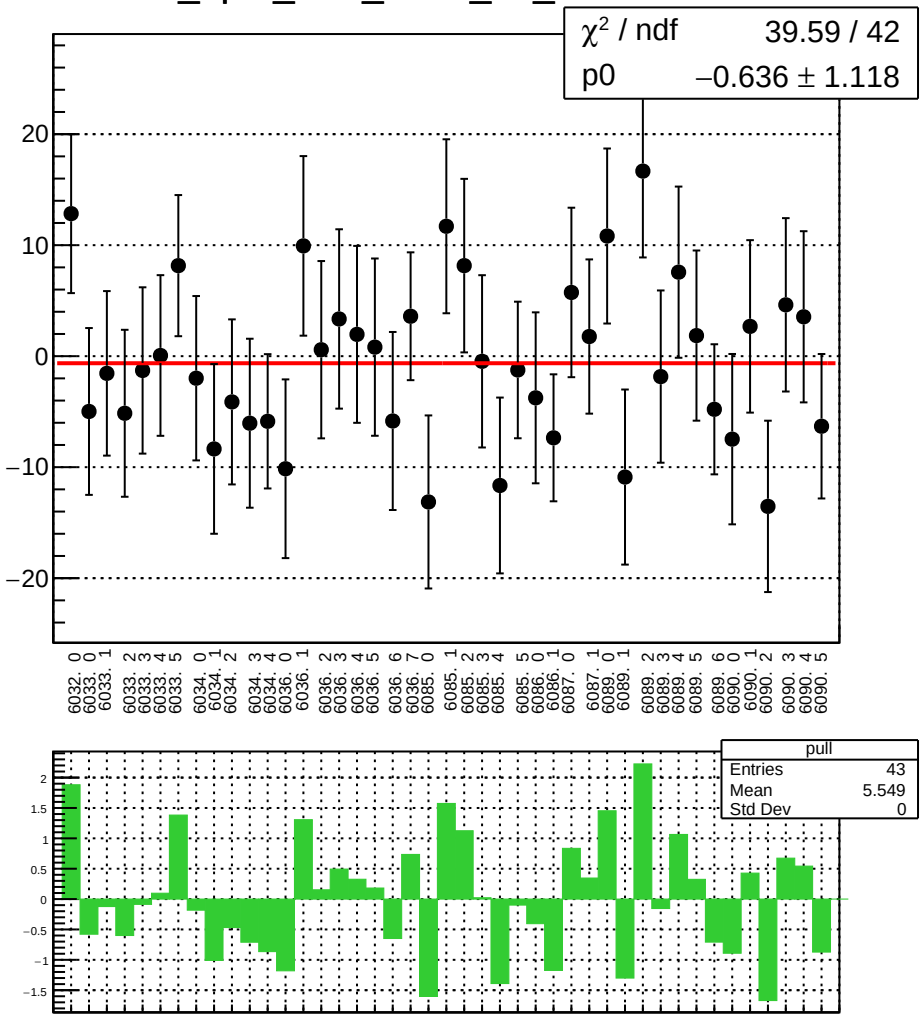

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 46.98 / 42
p0 0.998 ± 0.4896
15
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 87.69
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02902
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

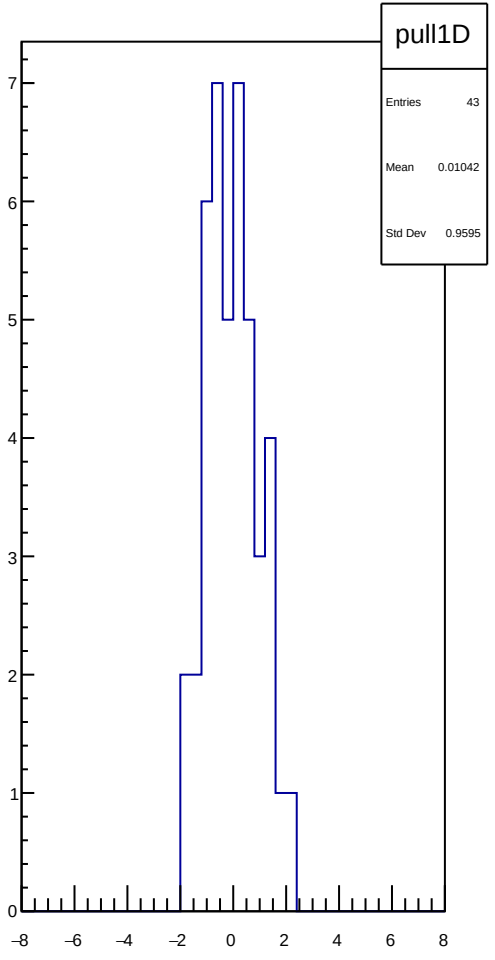

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 2785 / 42
p0 323 ± 0.3462
420
400
380
360
340
320
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

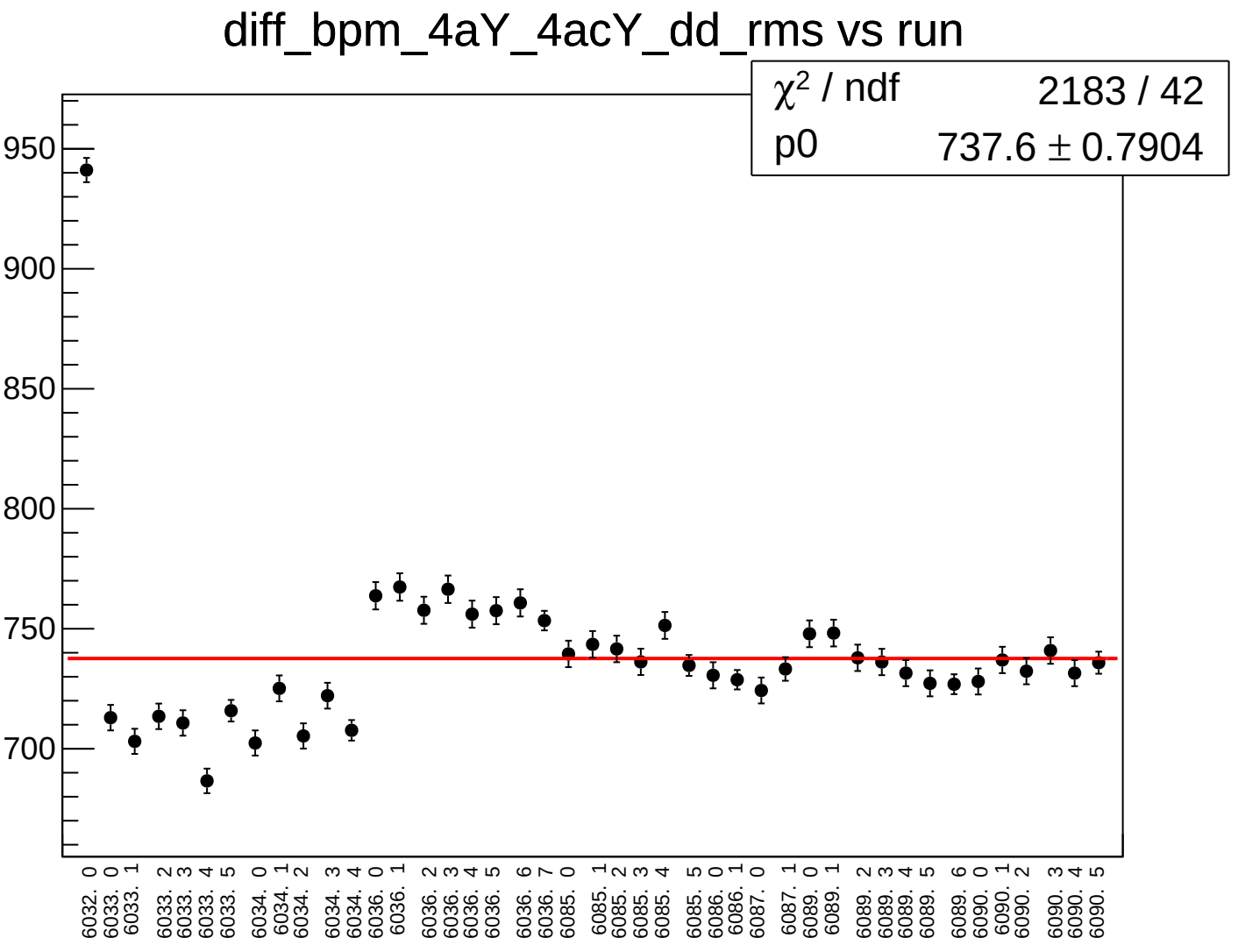

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 54.82 / 42
p0 17.04 ± 10.1
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −78.65
Std Dev 0
3
2
1
0
−1
−2
−3

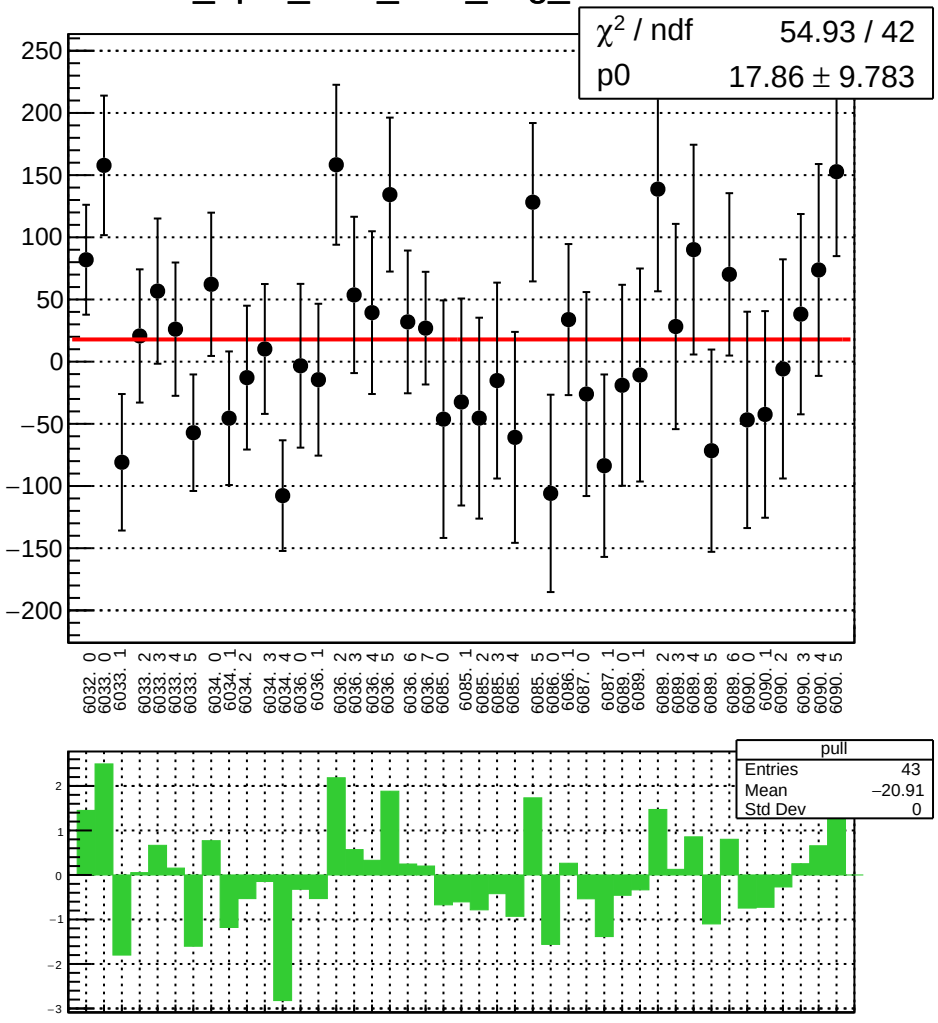

pull1D
Entries 43
Mean −0.004039
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

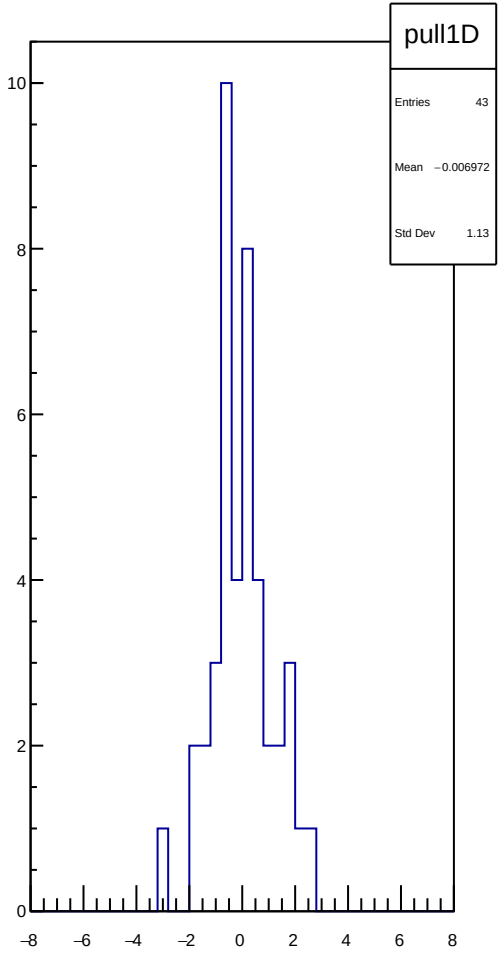

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 2.518e+04 / 42
p0 6577 ± 7.143
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

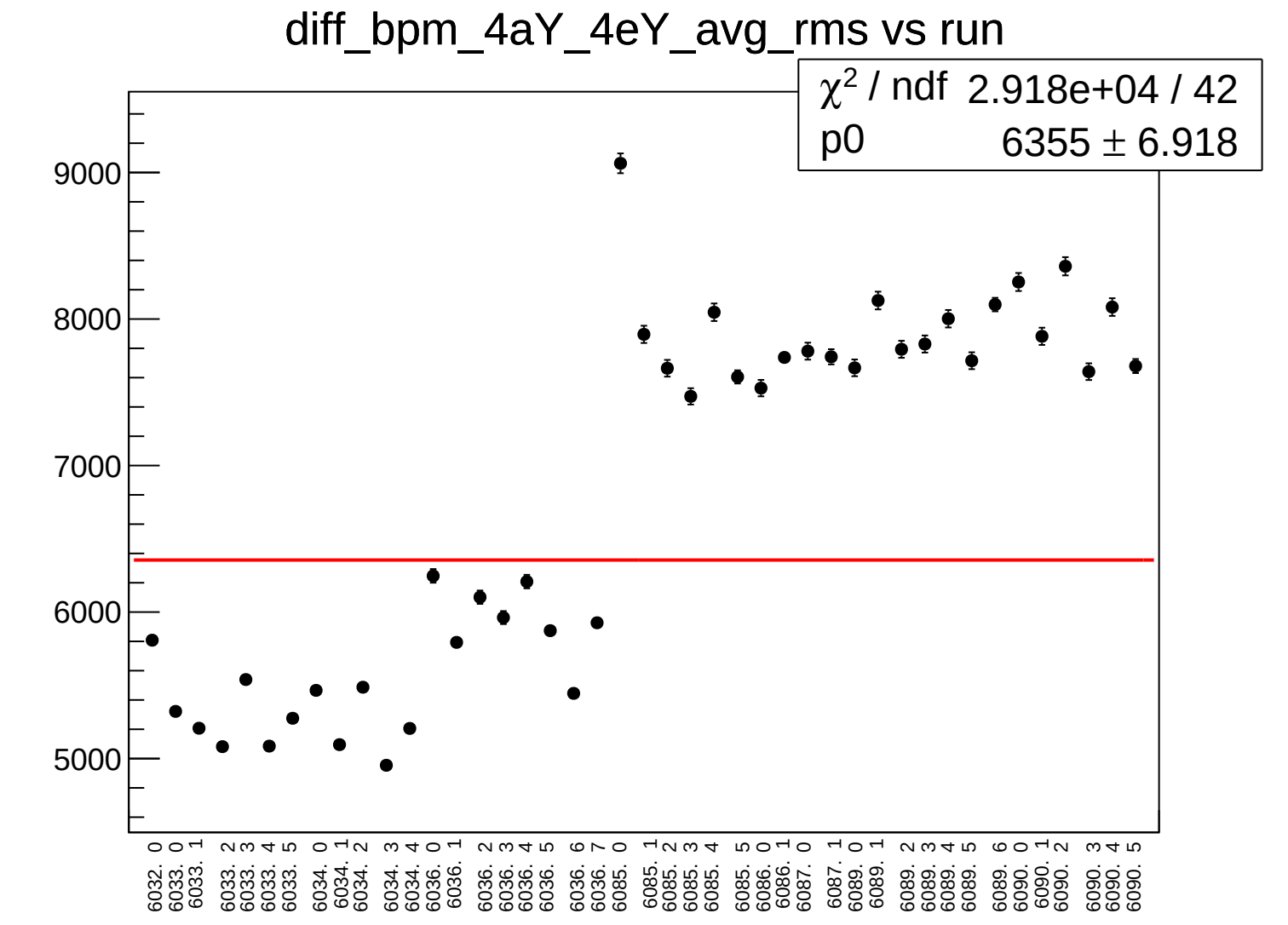

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 39.59 / 42
p0 −0.636 ± 1.118
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 5.549
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

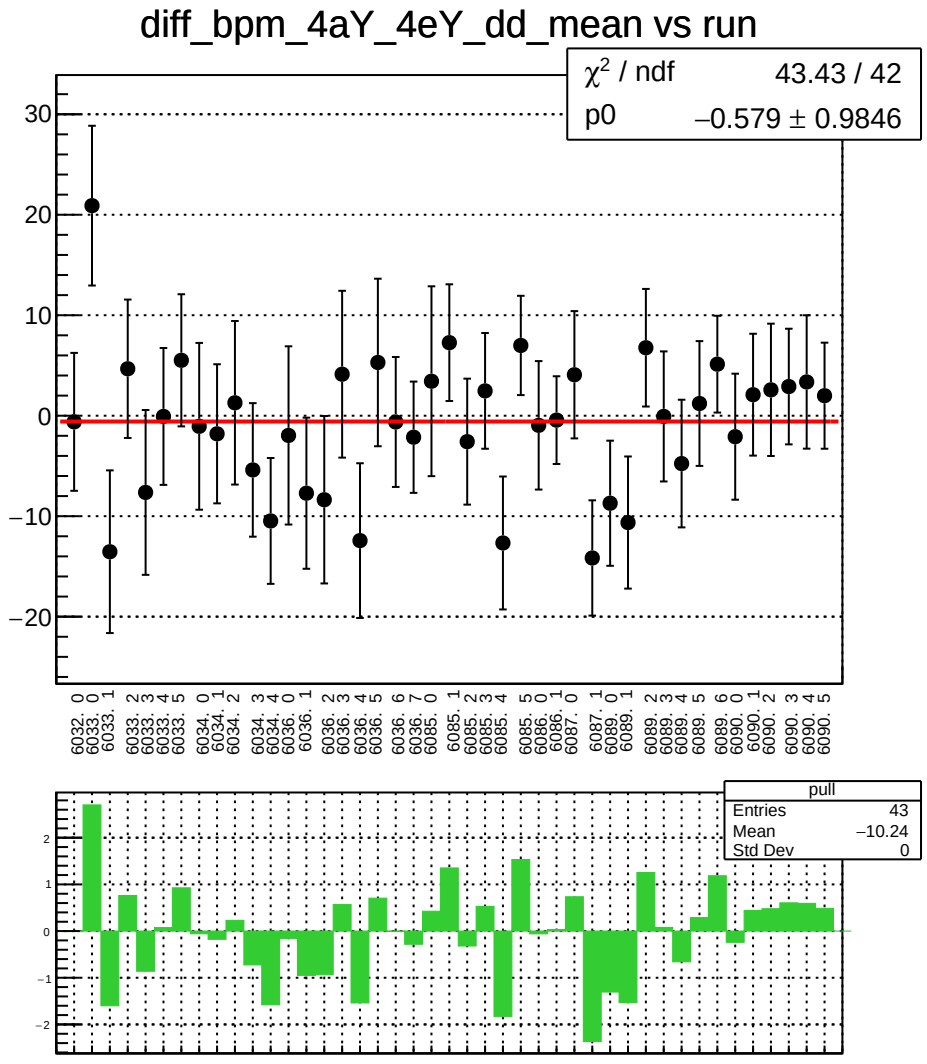

pull1D
Entries 43
Mean 0.01042
Std Dev 0.9595
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

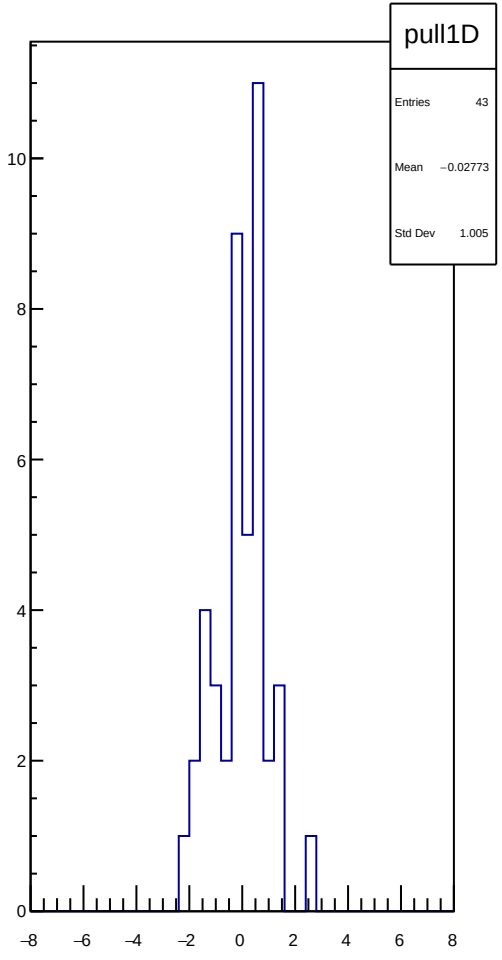

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 2183 / 42
p0 737.6 ± 0.7904
950
900
850
800
750
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

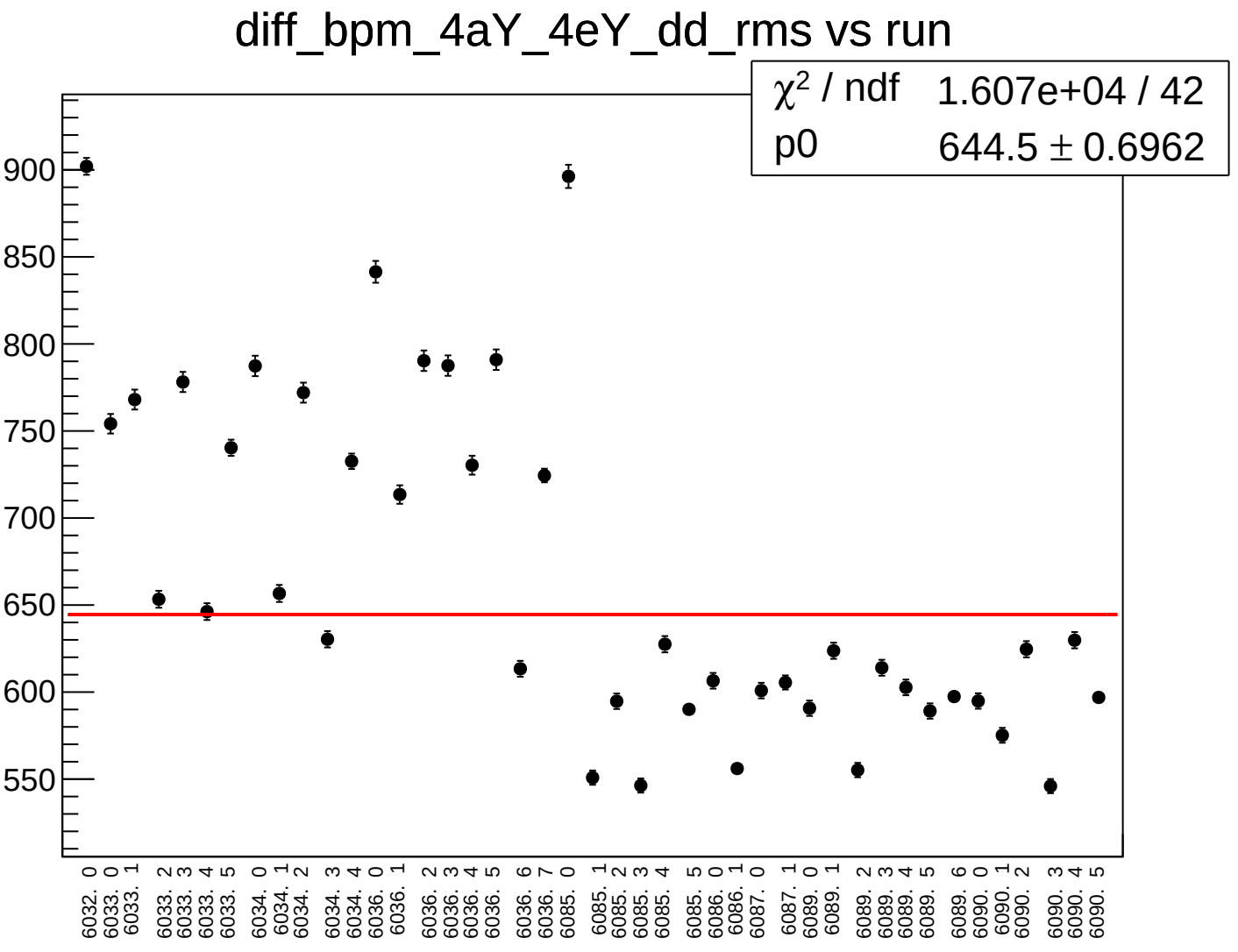

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 54.93 / 42
p0 17.86 ± 9.783
pull
Entries 43
Mean −20.91
Std Dev 0

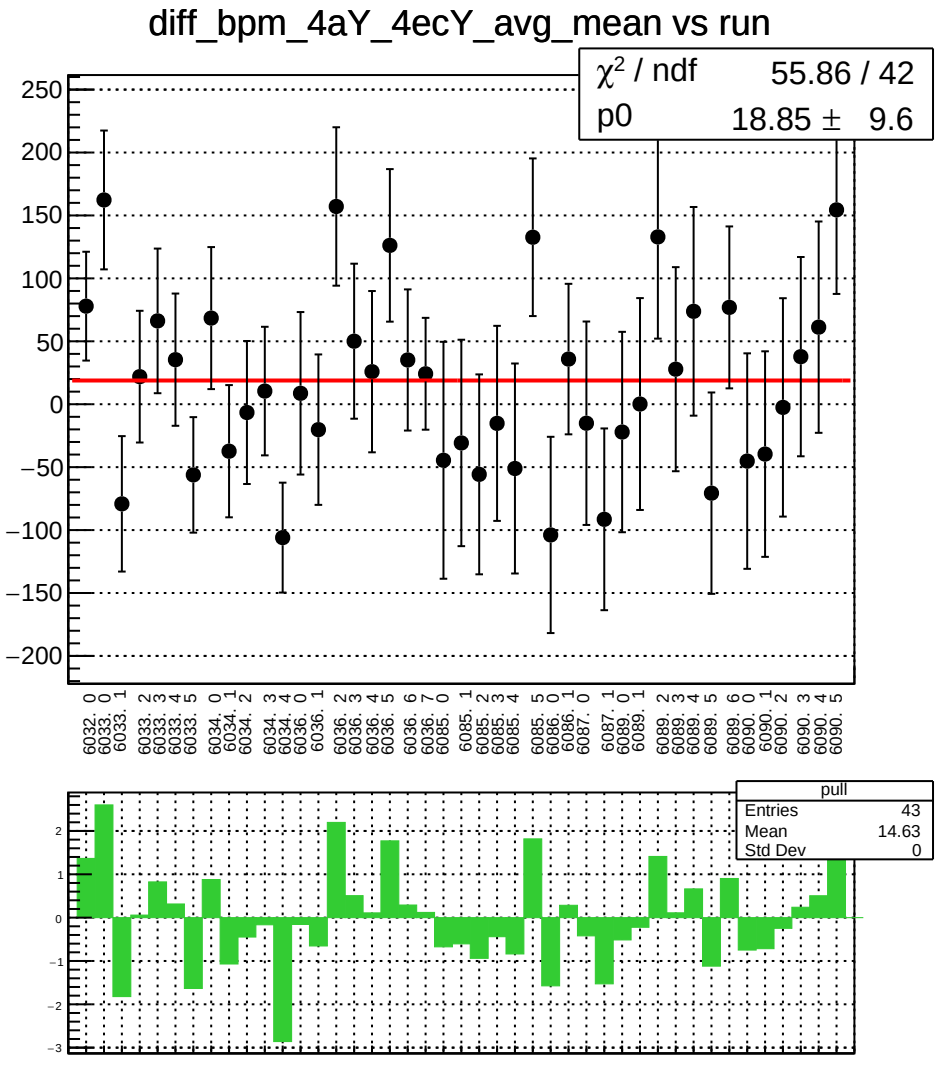

pull1D
Entries 43
Mean −0.006972
Std Dev 1.13

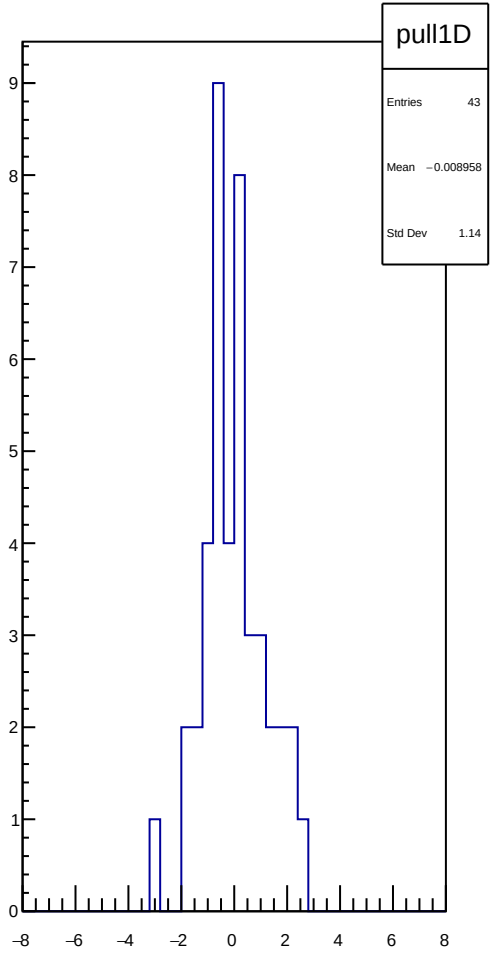

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2.918e+04 / 42
p0 6355 ± 6.918
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

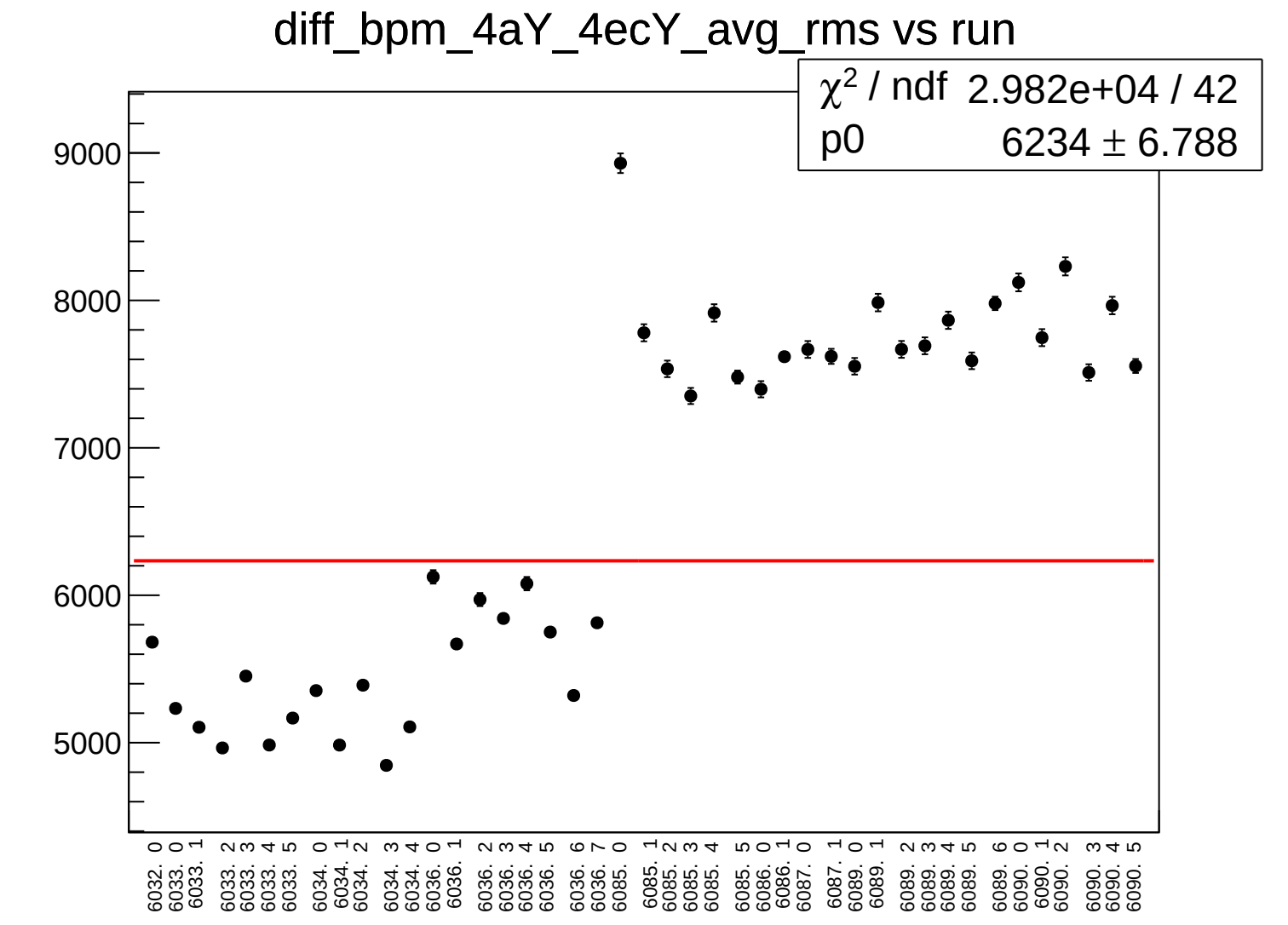

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 43.43 / 42
p0 −0.579 ± 0.9846
pull
Entries 43
Mean −10.24
Std Dev 0

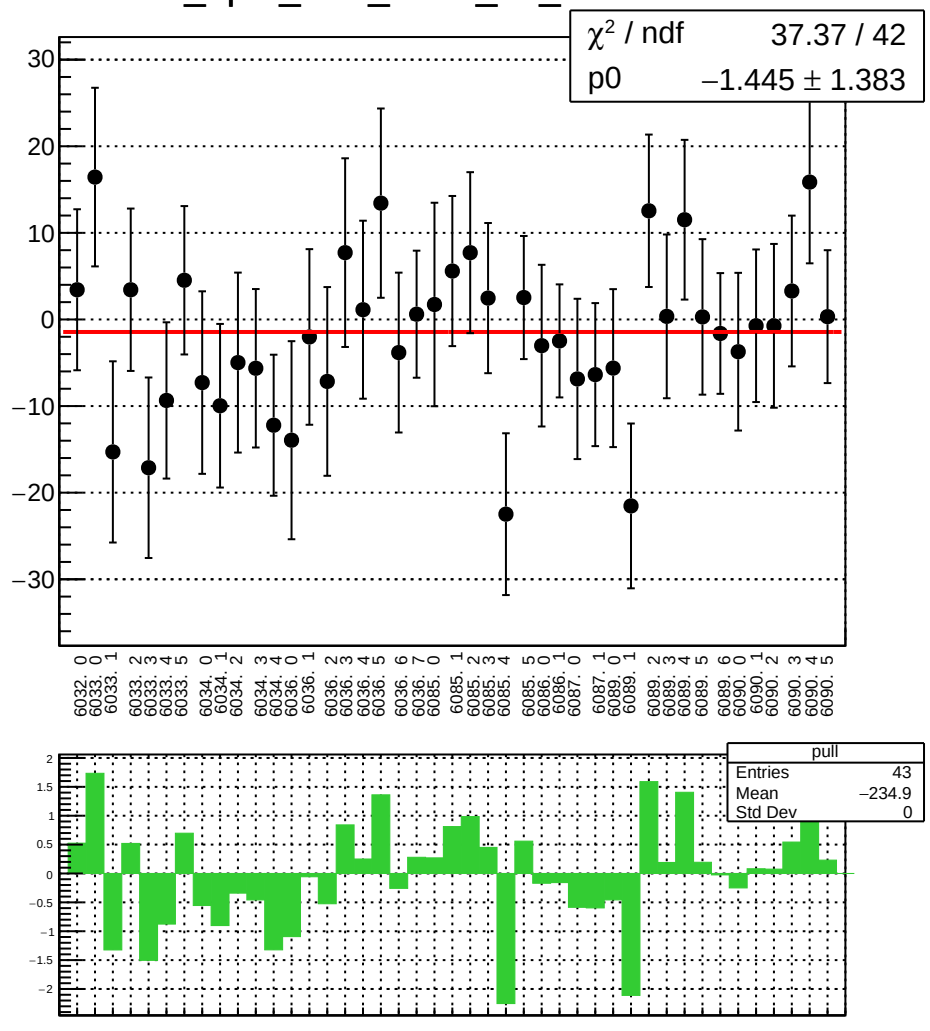

pull1D
Entries 43
Mean −0.02773
Std Dev 1.005

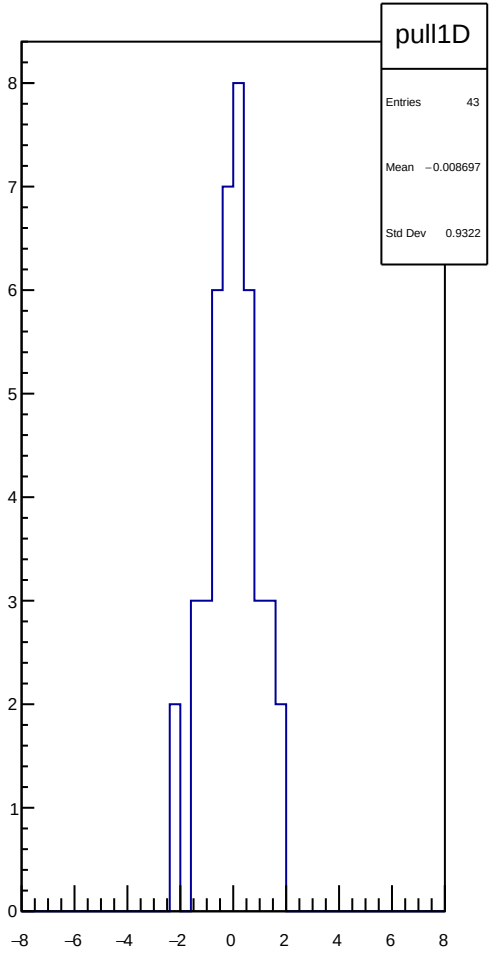

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.607e+04 / 42
p0 644.5 ± 0.6962
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

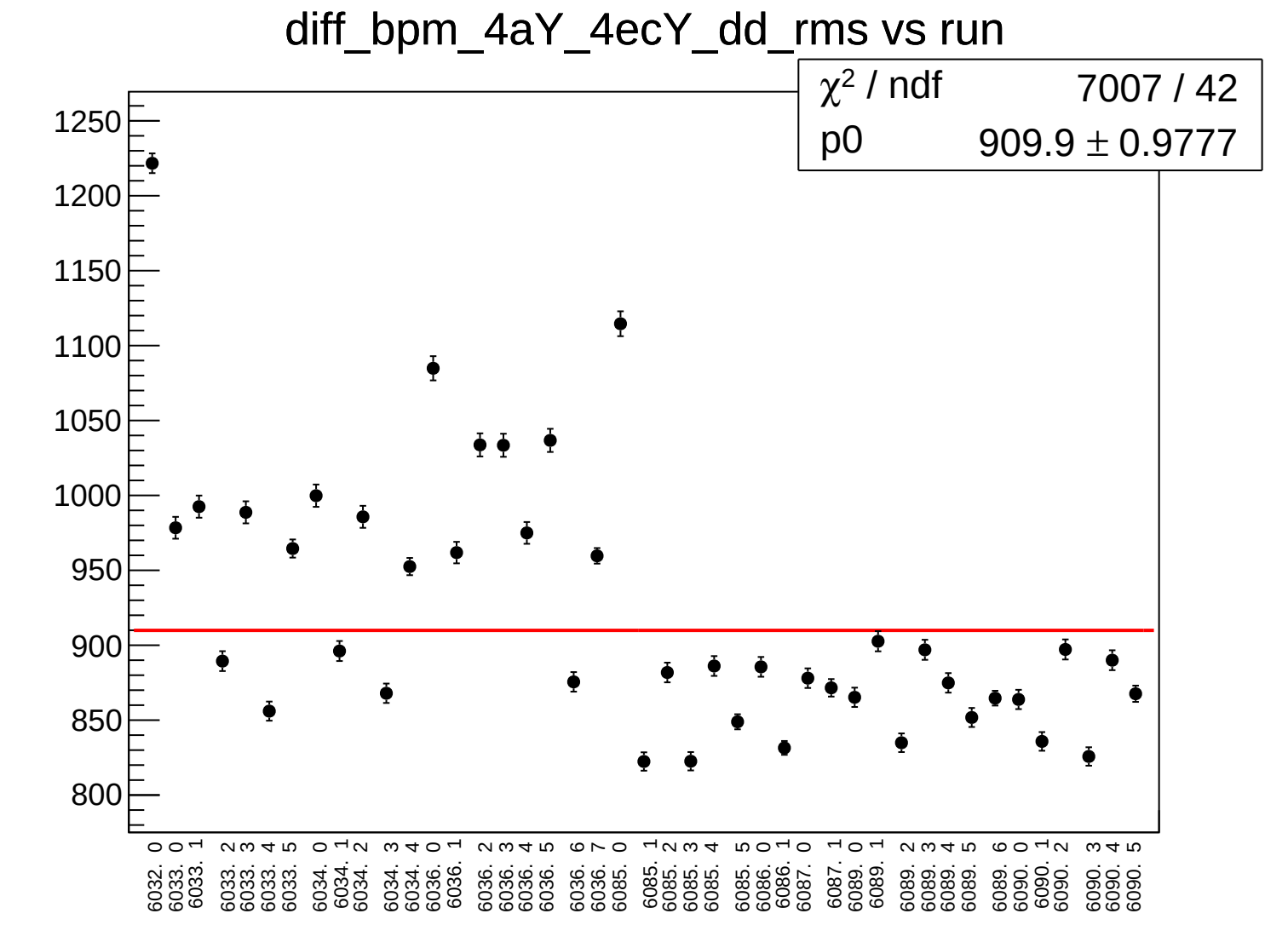

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 55.86 / 42
p0 18.85 ± 9.6
pull
Entries 43
Mean 14.63
Std Dev 0

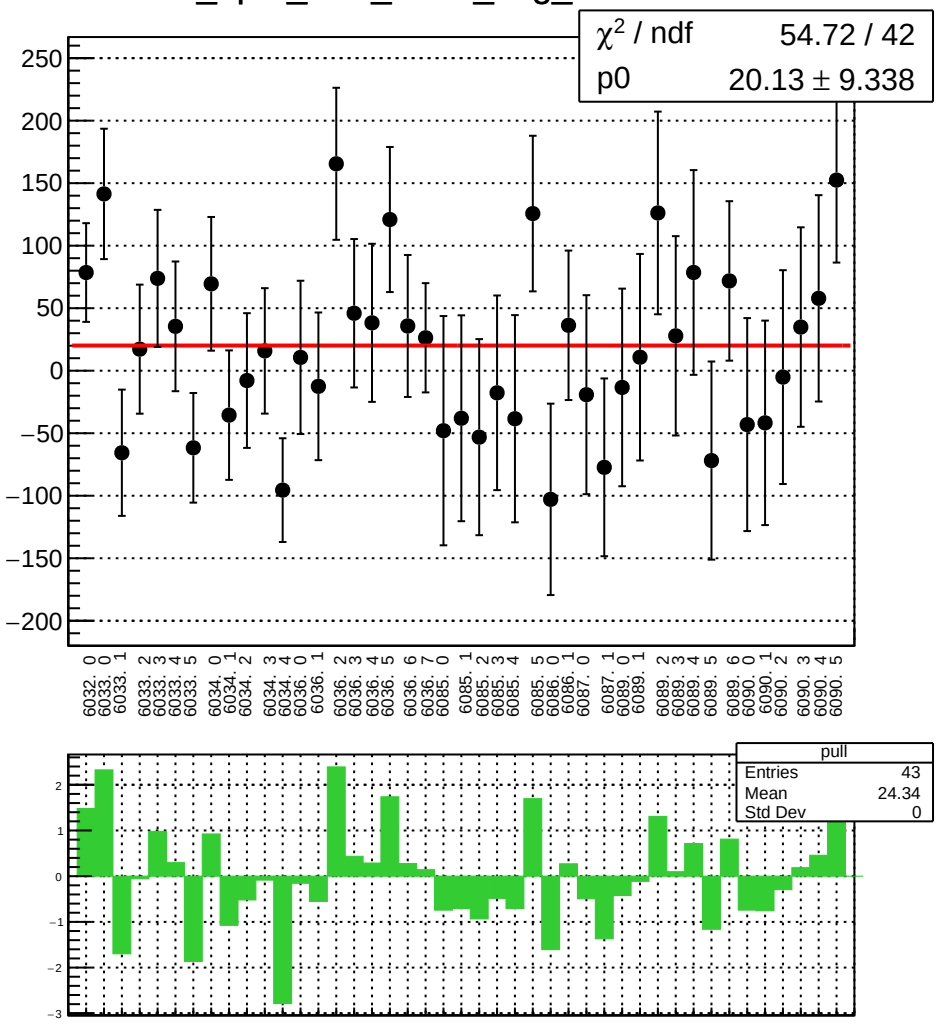

pull1D
Entries 43
Mean −0.008958
Std Dev 1.14

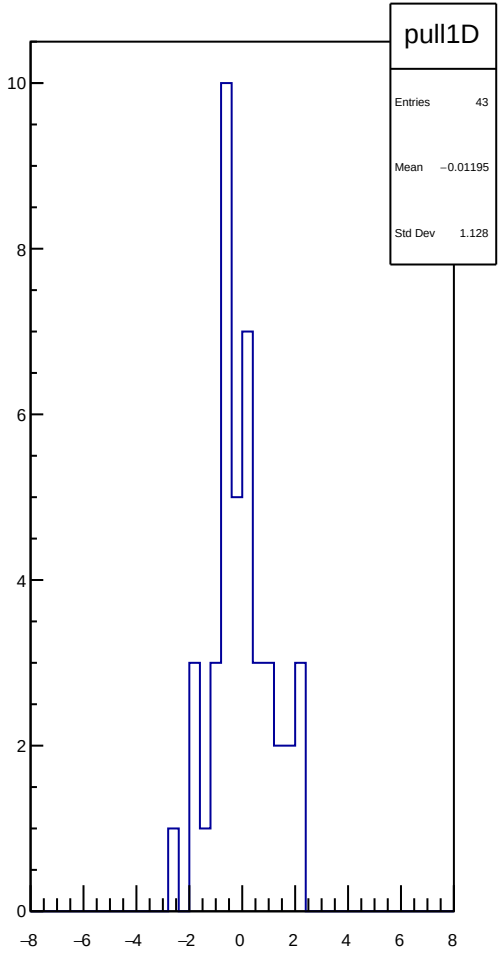

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2.982e+04 / 42
p0 6234 ± 6.788
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

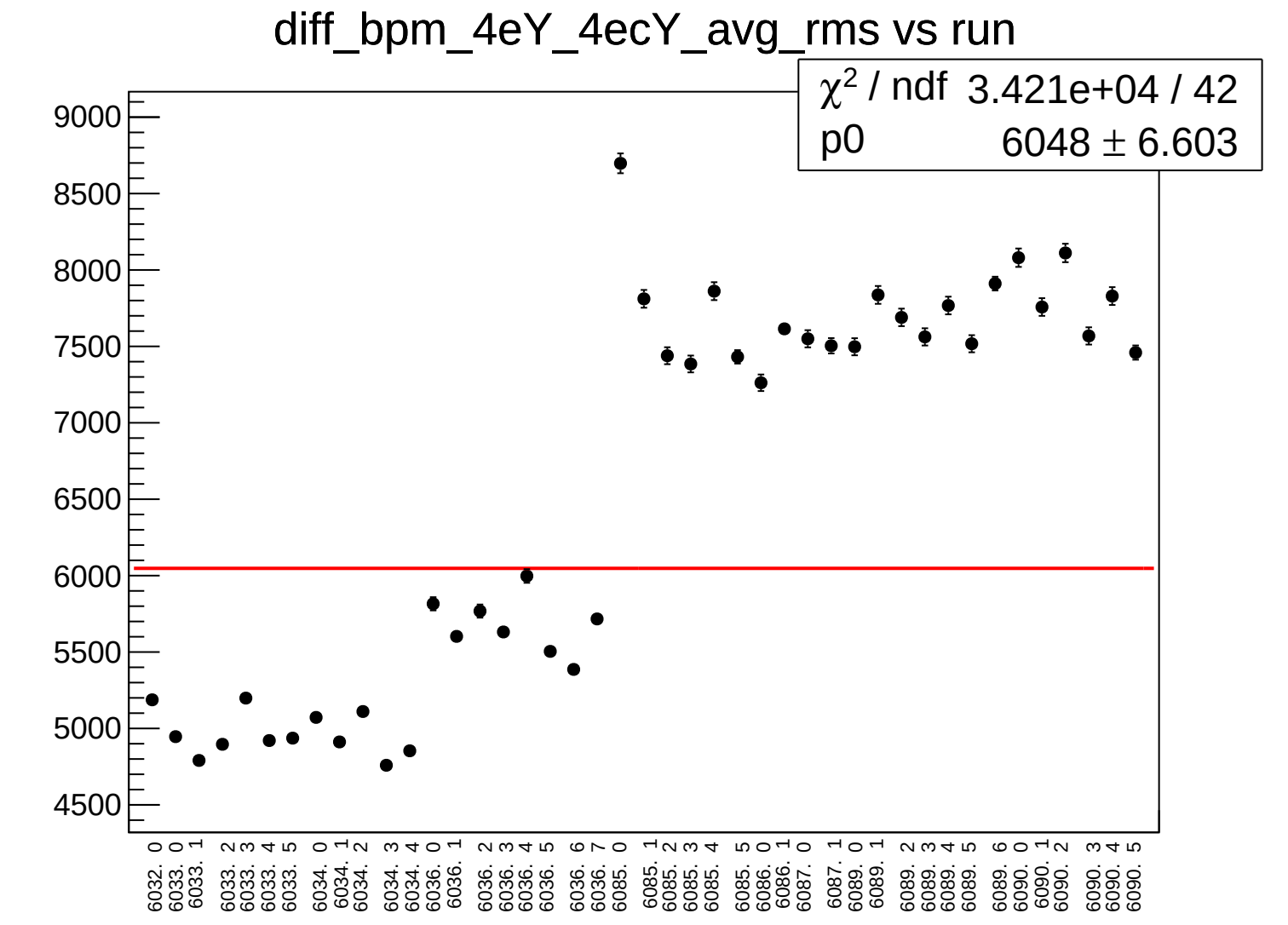

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 37.37 / 42
p0 −1.445 ± 1.383
pull
Entries 43
Mean −234.9
Std Dev 0

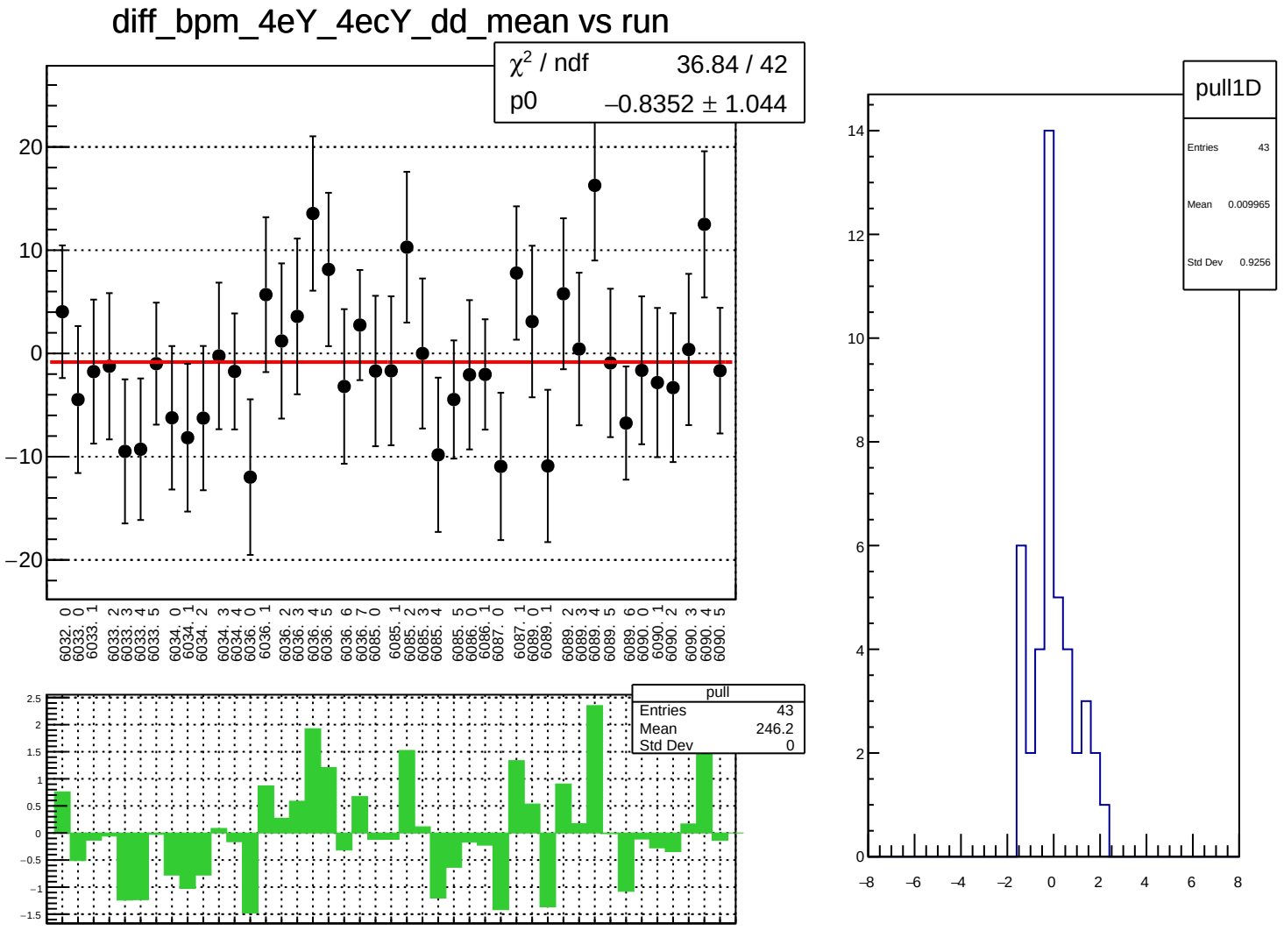

pull1D
Entries 43
Mean −0.008697
Std Dev 0.9322

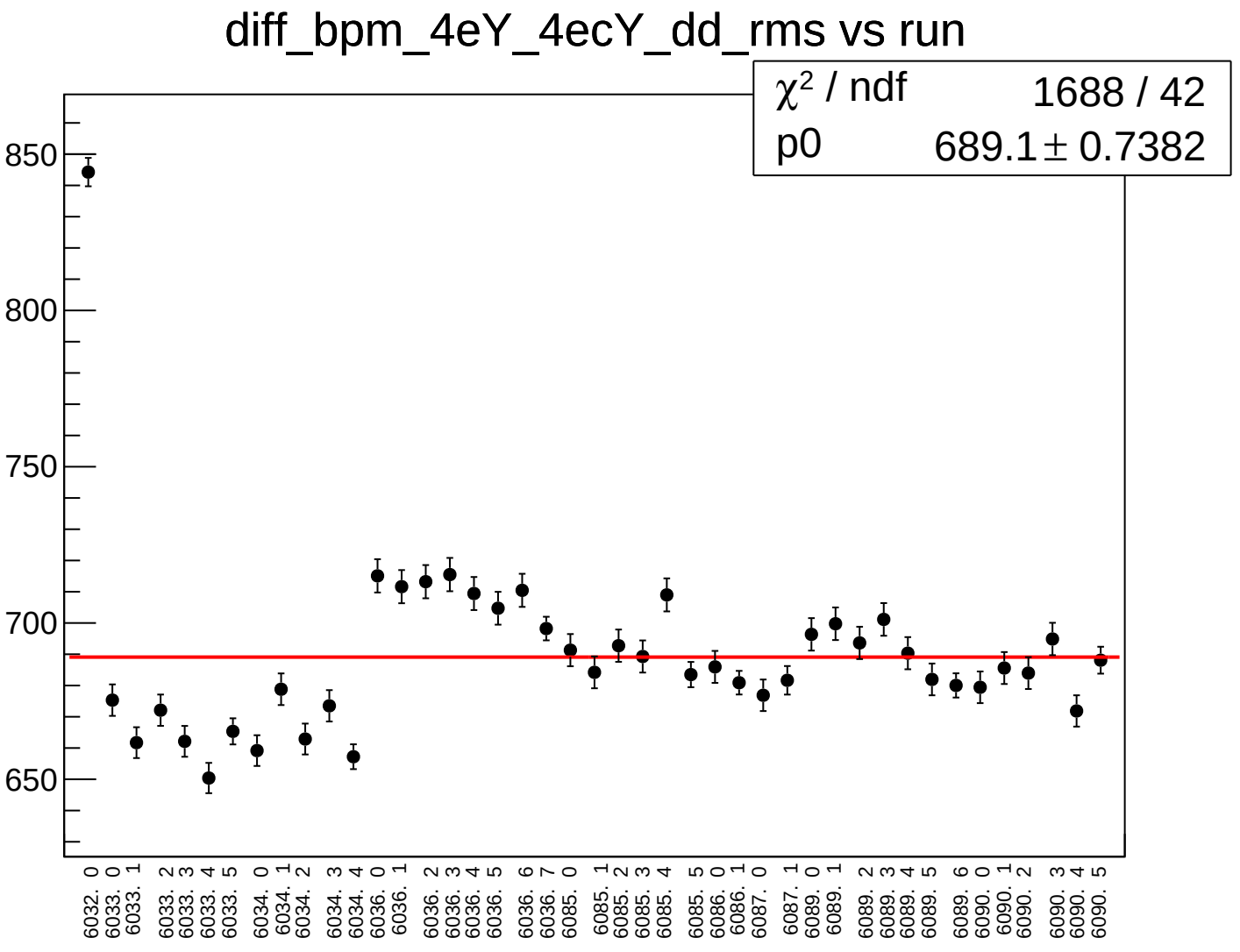

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 7007 / 42
p0 909.9 ± 0.9777
1250
1200
1150
1100
1050
1000
950
900
850
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

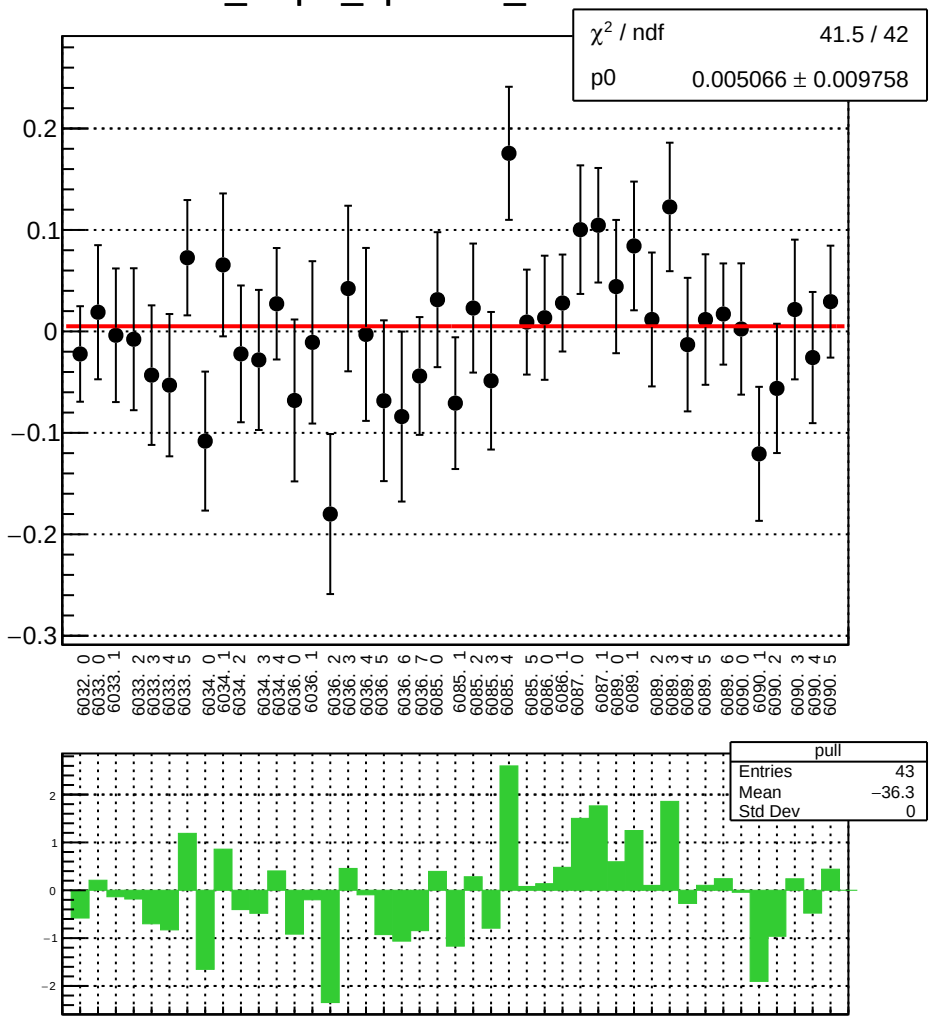

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 54.72 / 42
p0 20.13 ± 9.338
pull
Entries 43
Mean 24.34
Std Dev 0

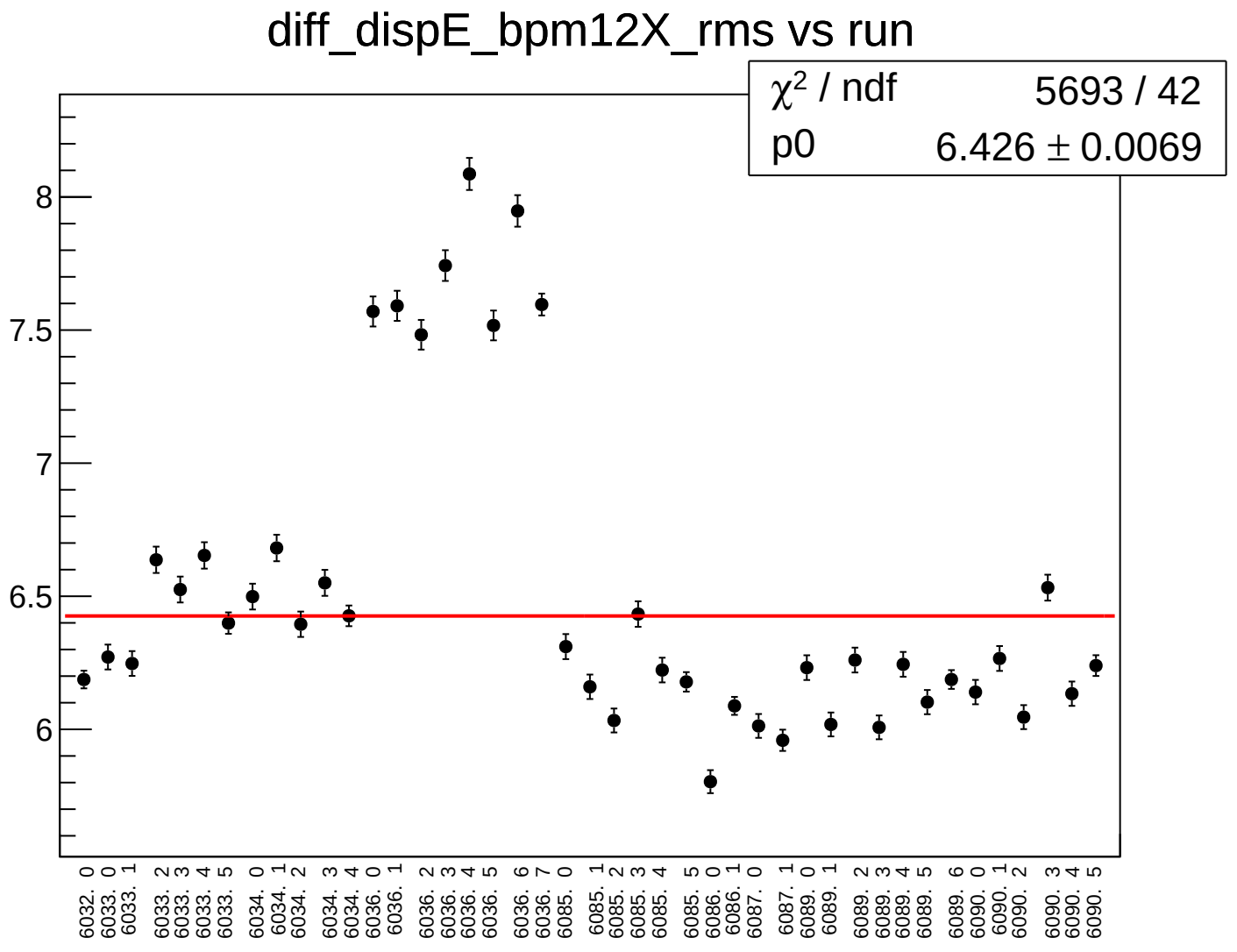

pull1D
Entries 43
Mean −0.01195
Std Dev 1.128

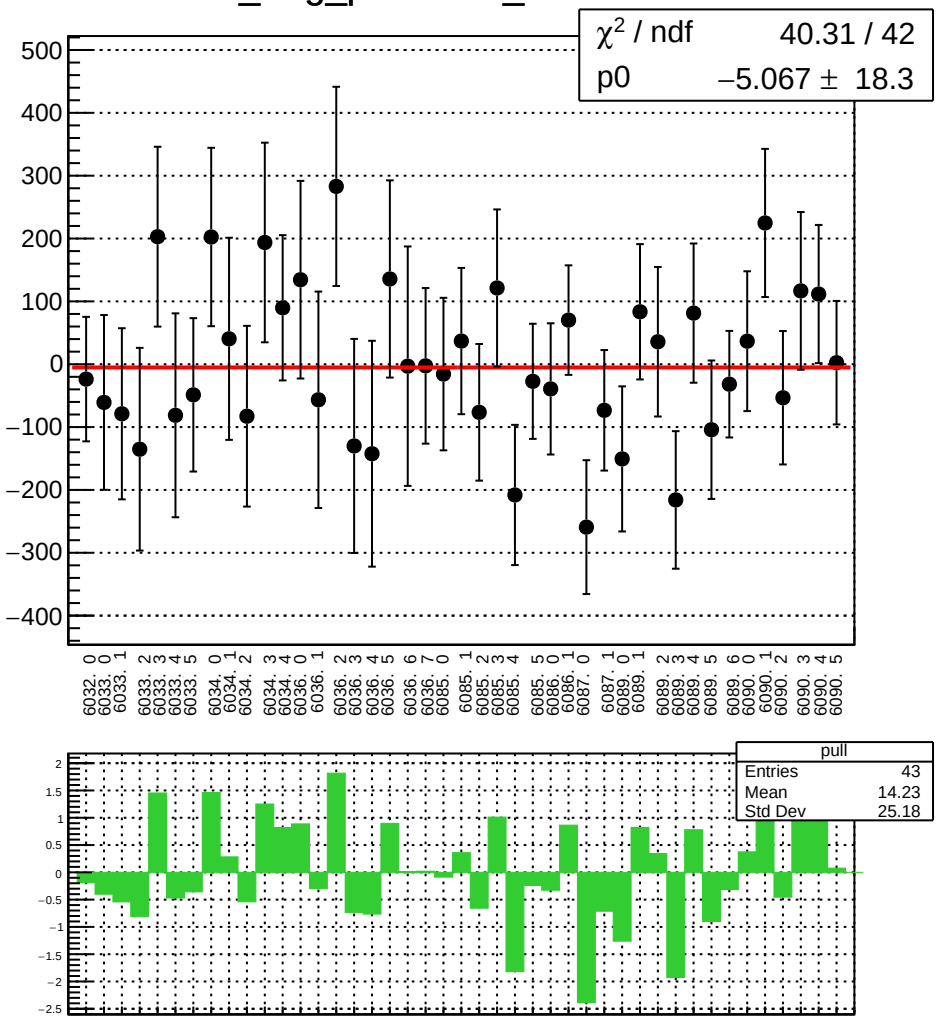

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.421e+04 / 42
p0 6048 ± 6.603
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

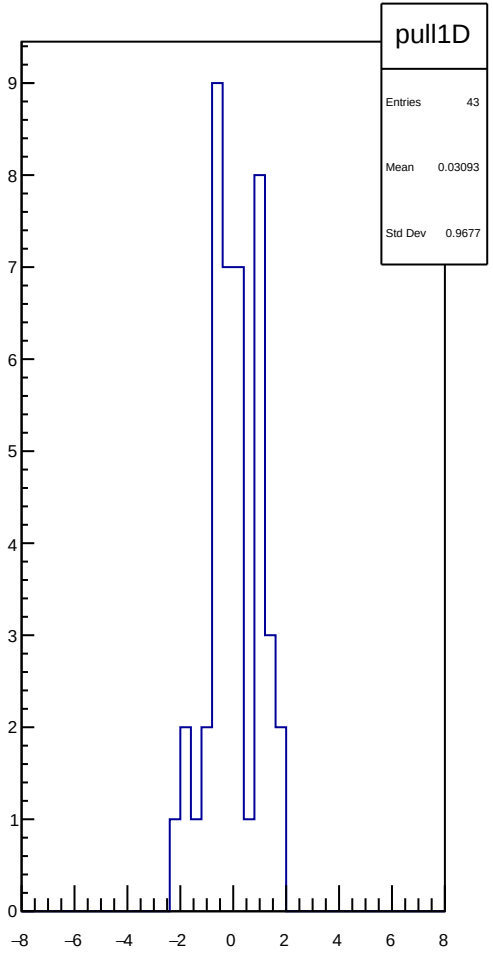

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 36.84 / 42
p0 −0.8352 ± 1.044
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 246.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.009965
Std Dev 0.9256
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

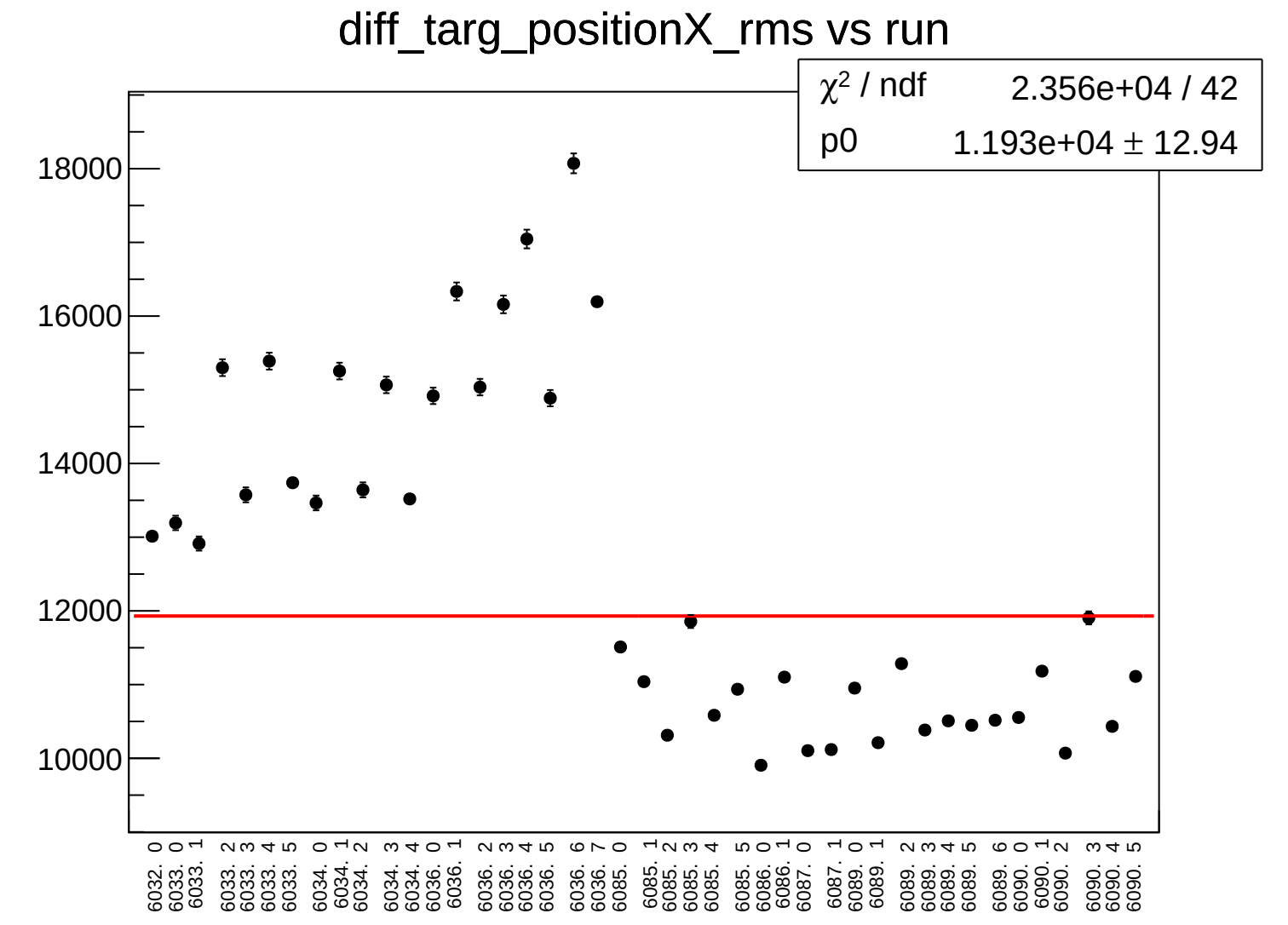

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1688 / 42
p0 689.1 ± 0.7382
850
800
750
700
650
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

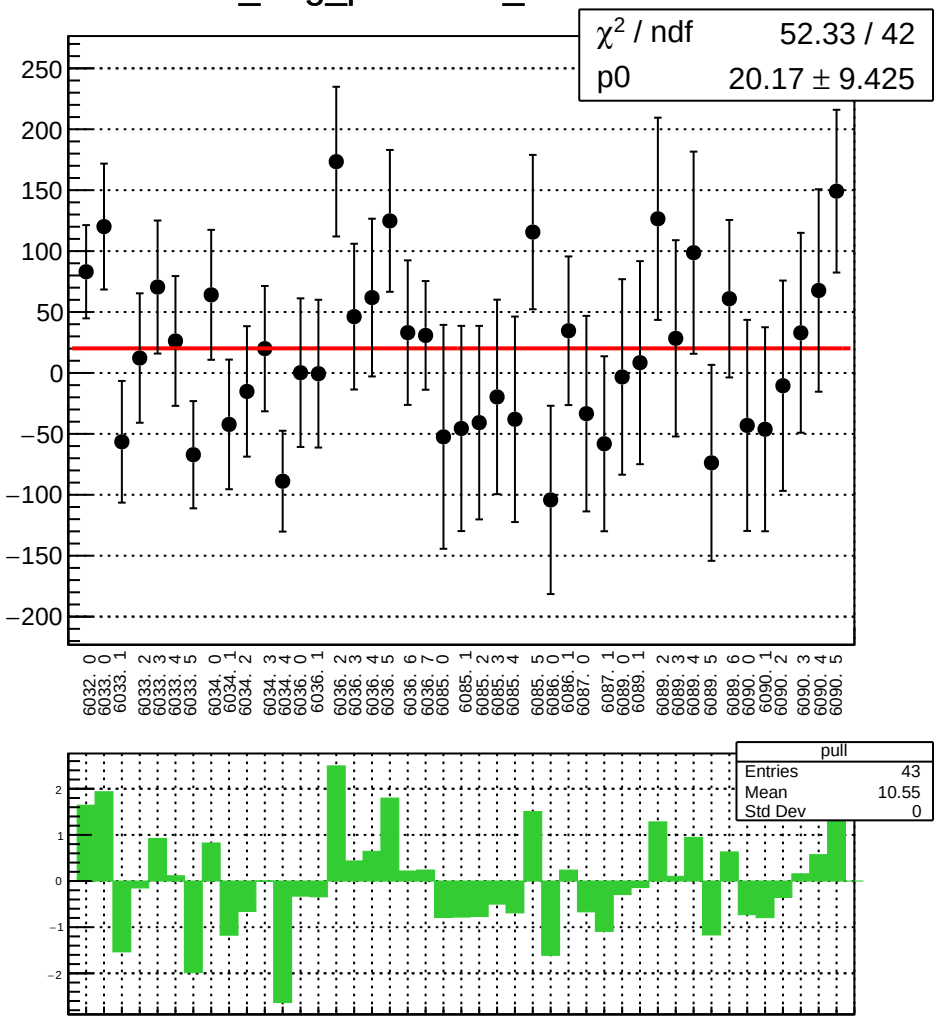

diff_dispE_bpm12X_mean vs run
χ² / ndf 41.5 / 42
p0 0.005066 ± 0.009758
pull
Entries 43
Mean −36.3
Std Dev 0
pull1D
Entries 43
Mean −0.04148
Std Dev 0.9815

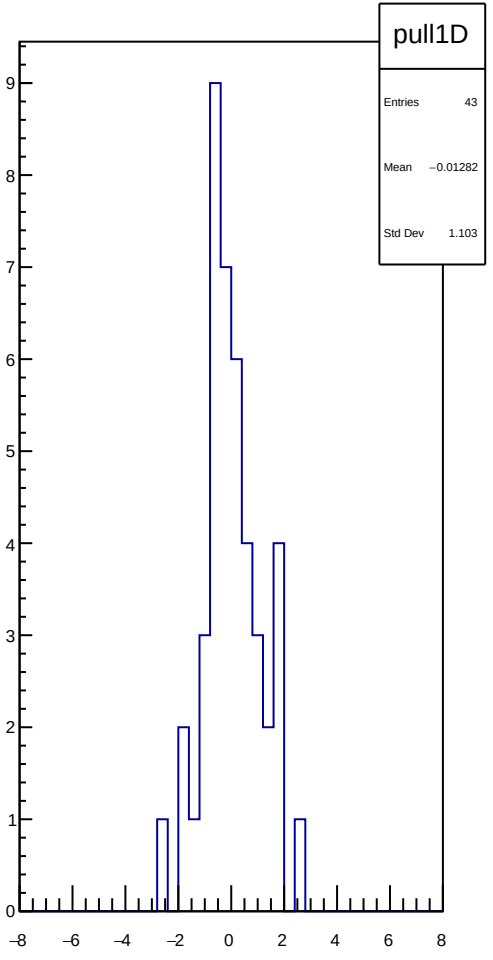

diff_dispE_bpm12X_rms vs run
χ² / ndf 5693 / 42
p0 6.426 ± 0.0069
8
7.5
7
6.5
6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

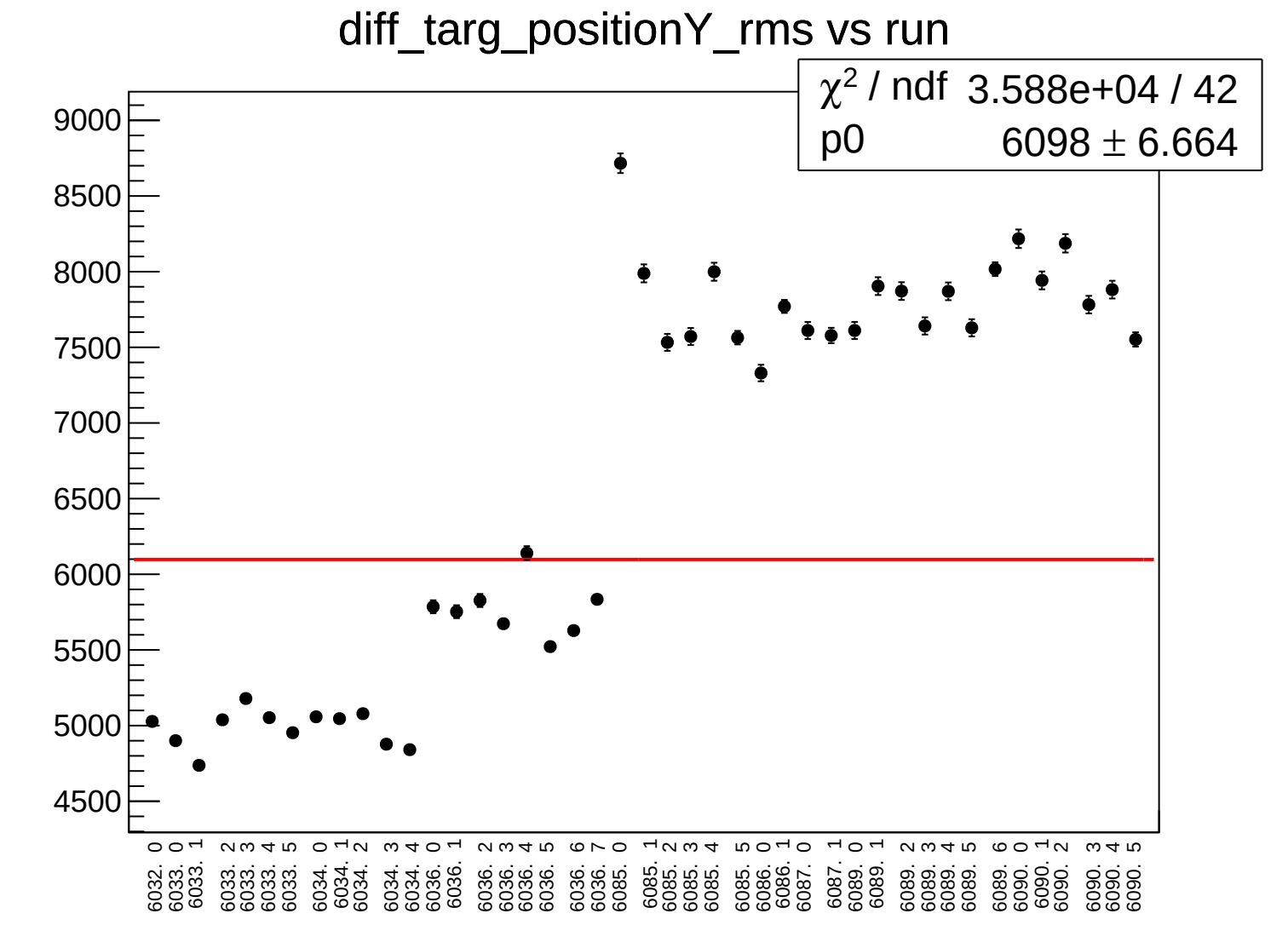

diff_targ_positionX_mean vs run
χ² / ndf 40.31 / 42
p0 −5.067 ± 18.3
pull
Entries 43
Mean 14.23
Std Dev 25.18

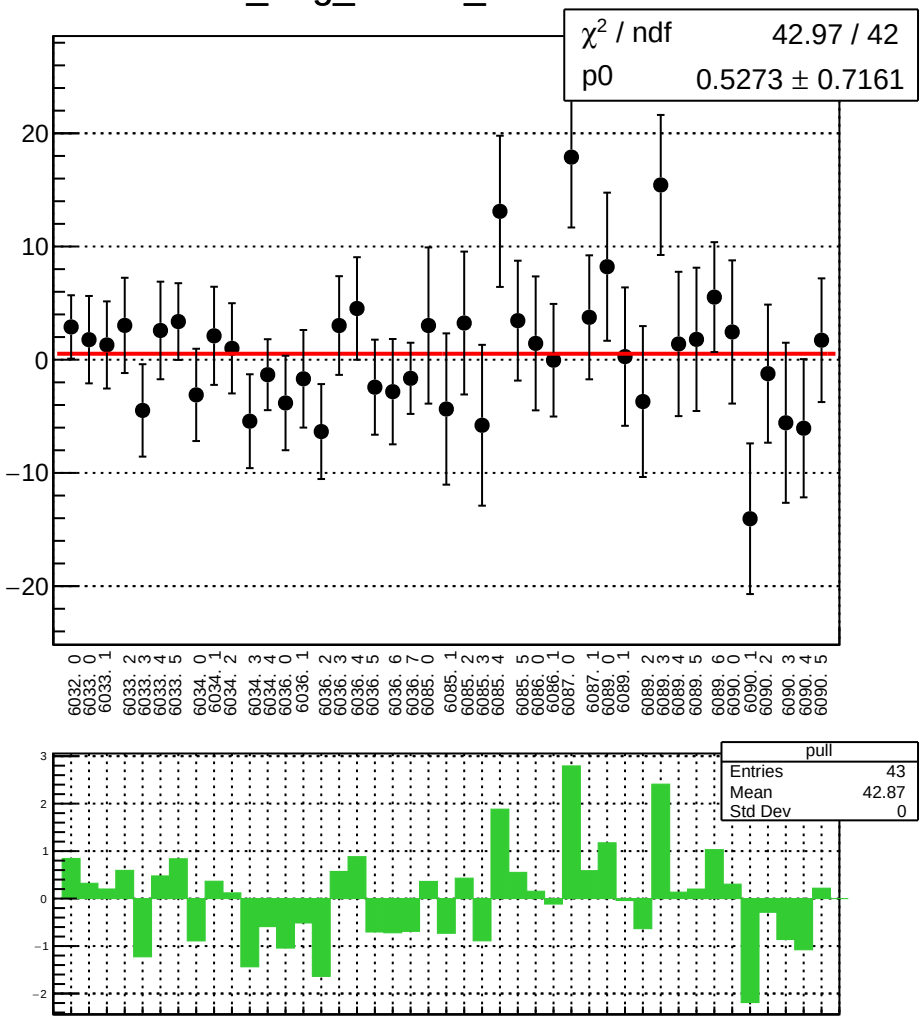

pull1D
Entries 43
Mean 0.03093
Std Dev 0.9677

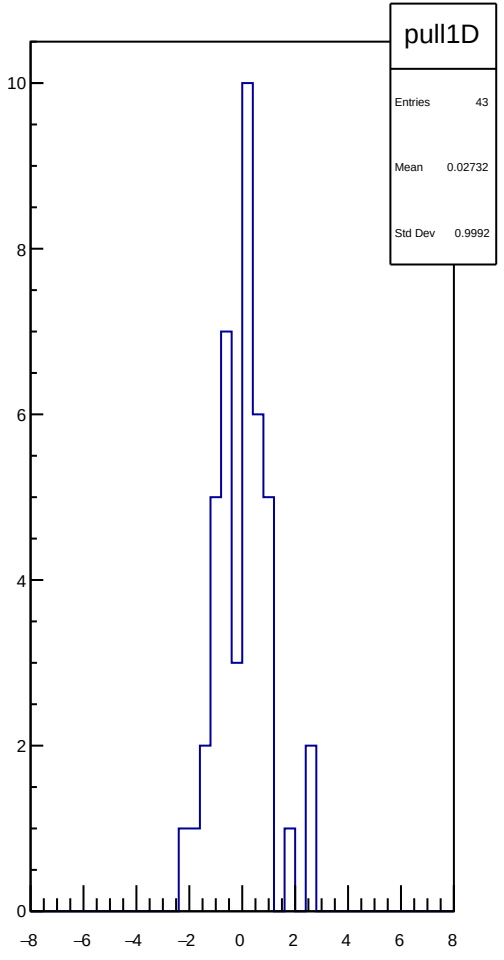

diff_targ_positionX_rms vs run
χ² / ndf 2.356e+04 / 42
p0 1.193e+04 ± 12.94
18000
16000
14000
12000
10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

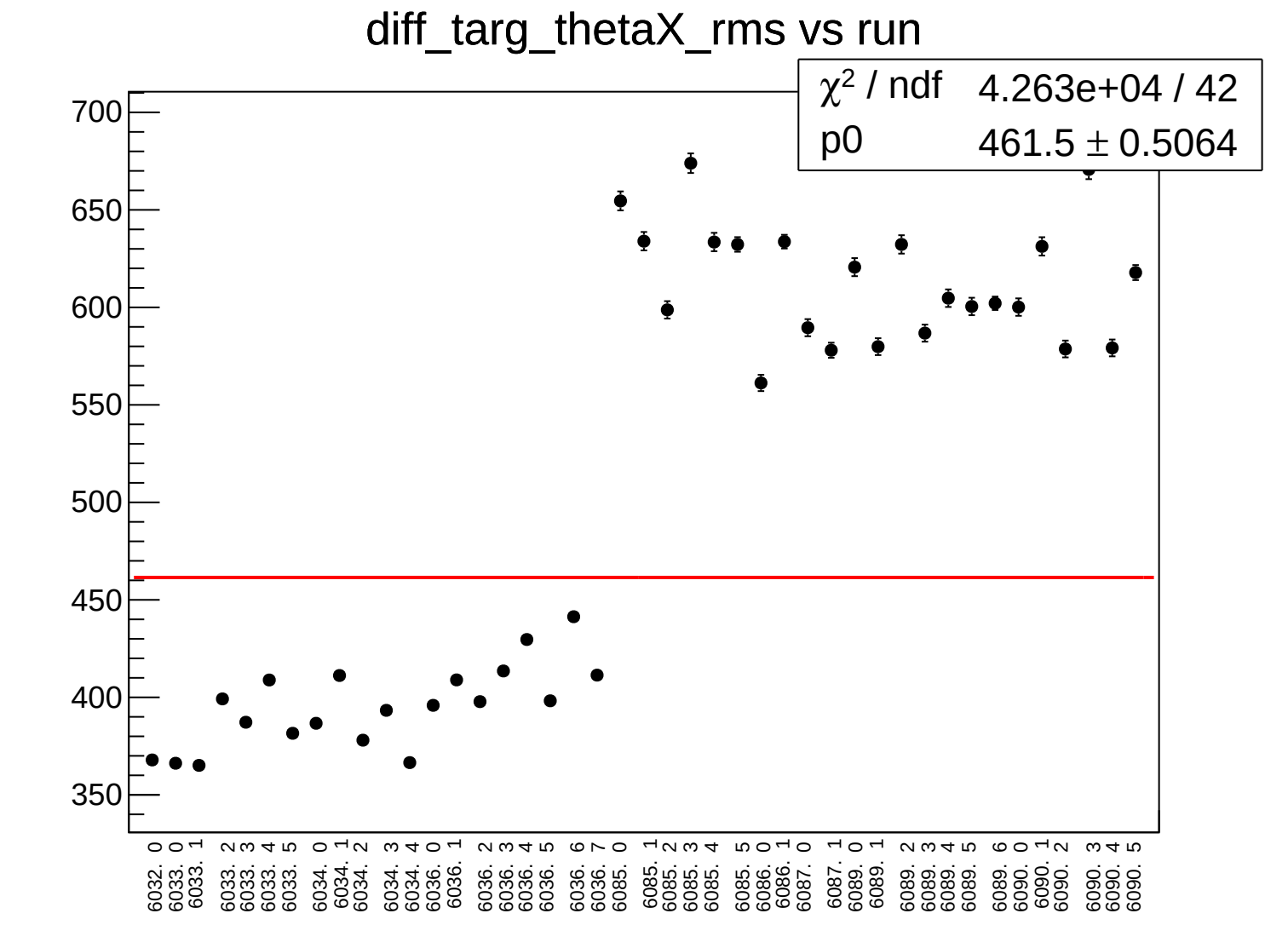

diff_targ_positionY_mean vs run
χ² / ndf 52.33 / 42
p0 20.17 ± 9.425
pull
Entries 43
Mean 10.55
Std Dev 0

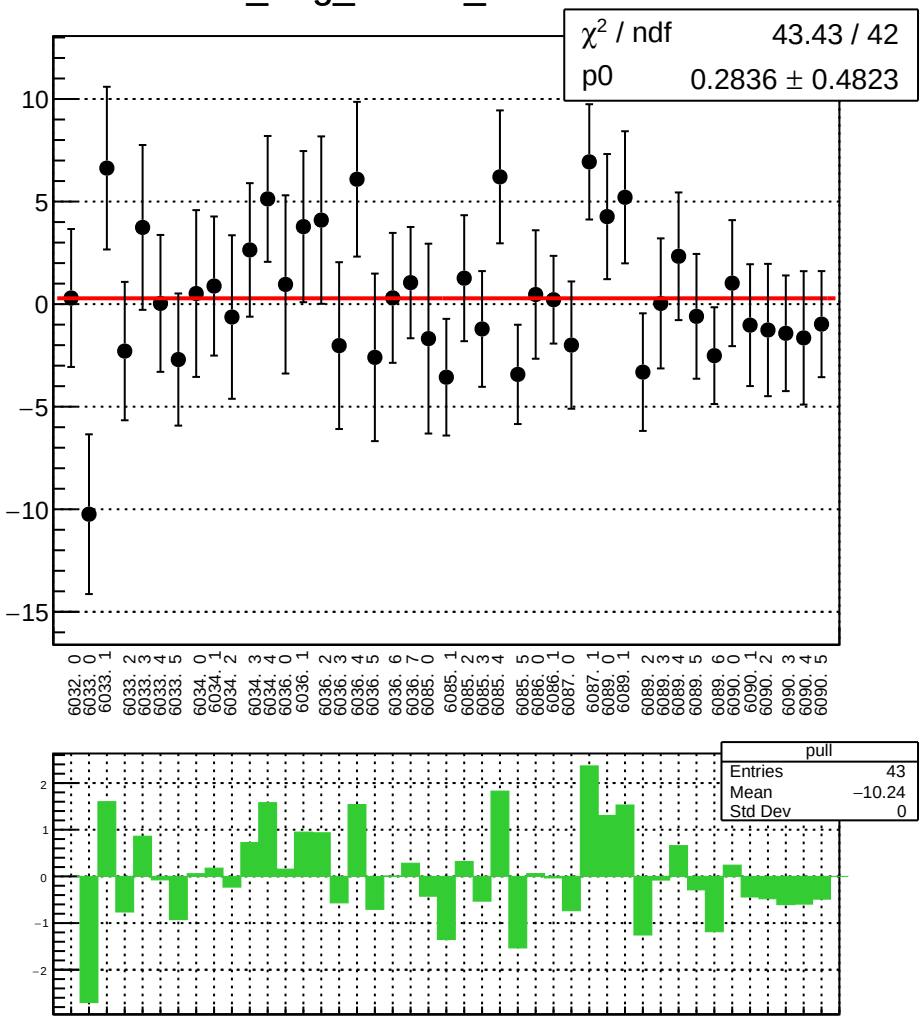

pull1D
Entries 43
Mean −0.01282
Std Dev 1.103

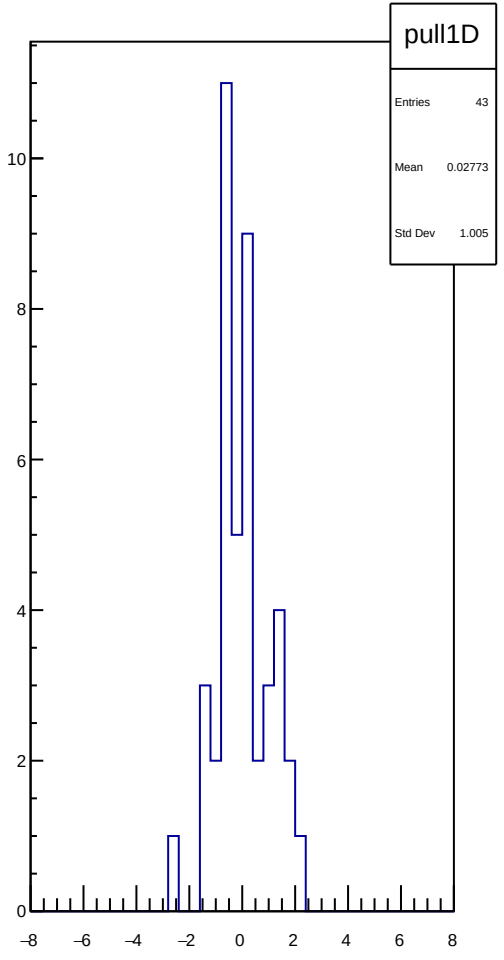

diff_targ_positionY_rms vs run
χ² / ndf 3.588e+04 / 42
p0 6098 ± 6.664
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

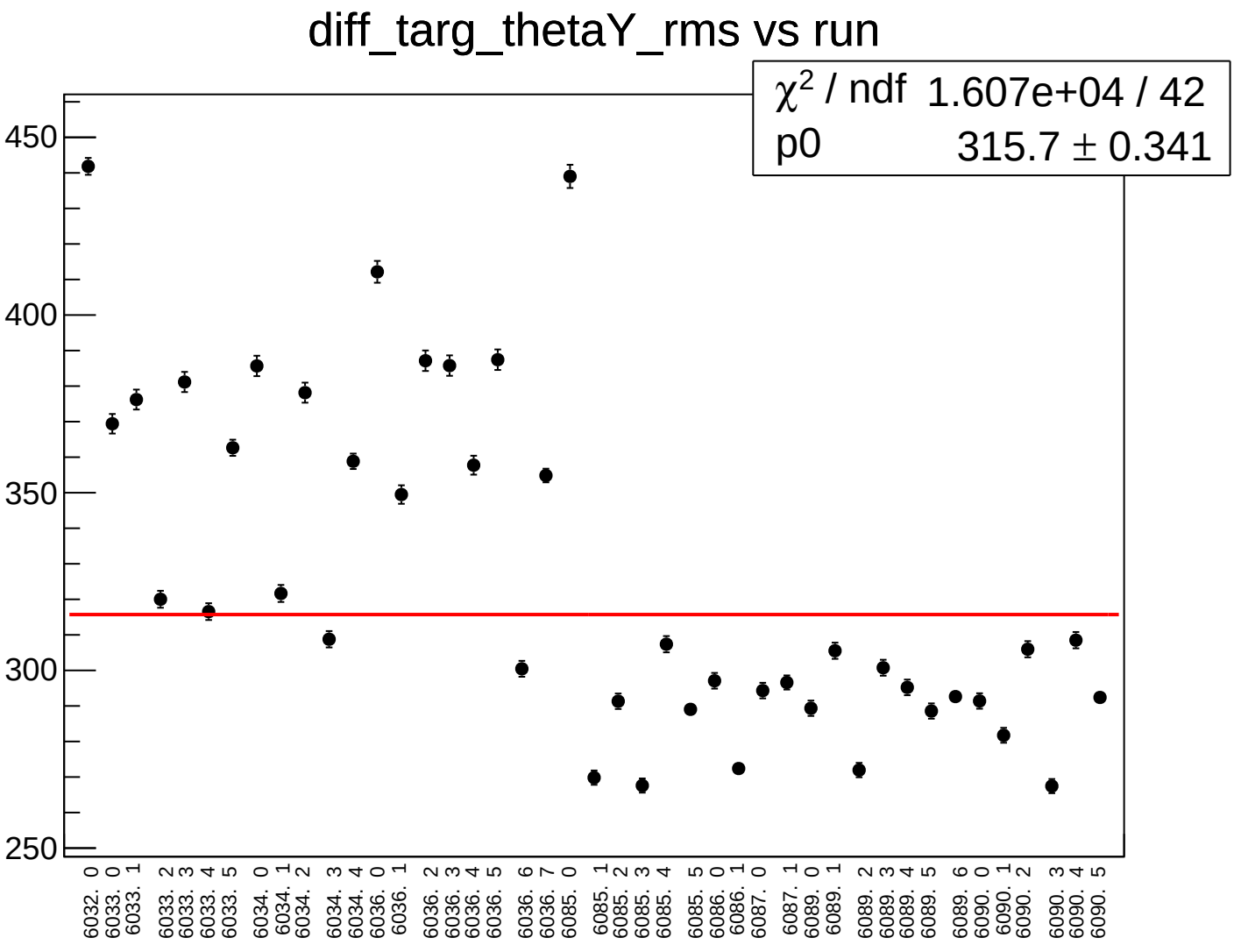

diff_targ_thetaX_mean vs run
χ² / ndf 42.97 / 42
p0 0.5273 ± 0.7161
pull
Entries 43
Mean 42.87
Std Dev 0

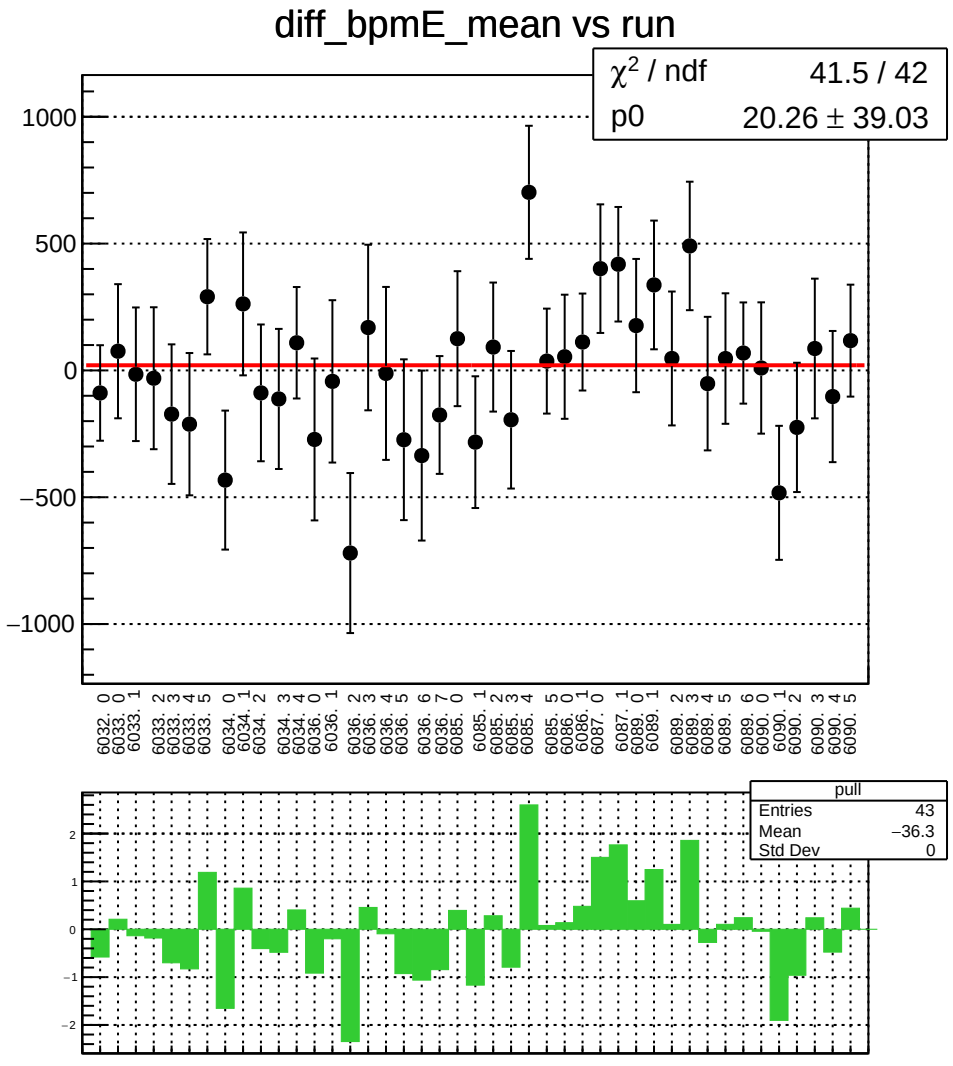

pull1D
Entries 43
Mean 0.02732
Std Dev 0.9992

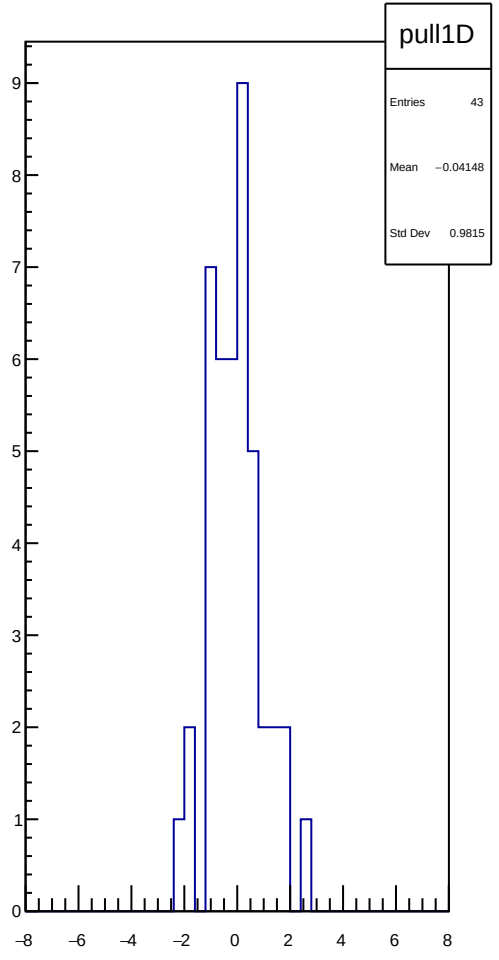

diff_targ_thetaX_rms vs run
χ² / ndf 4.263e+04 / 42
p0 461.5 ± 0.5064
700
650
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

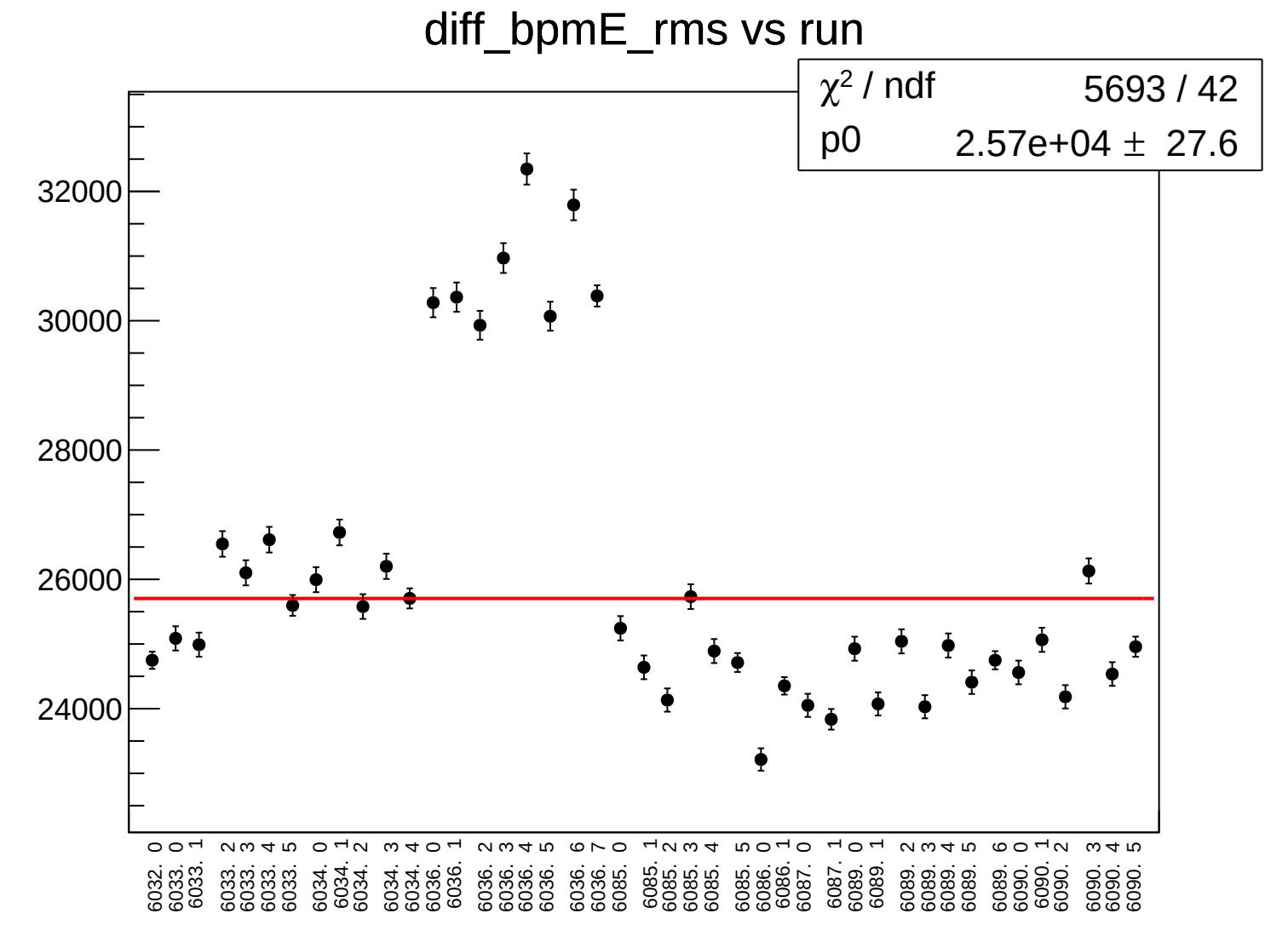

diff_targ_thetaY_mean vs run
χ² / ndf 43.43 / 42
p0 0.2836 ± 0.4823
pull
Entries 43
Mean −10.24
Std Dev 0

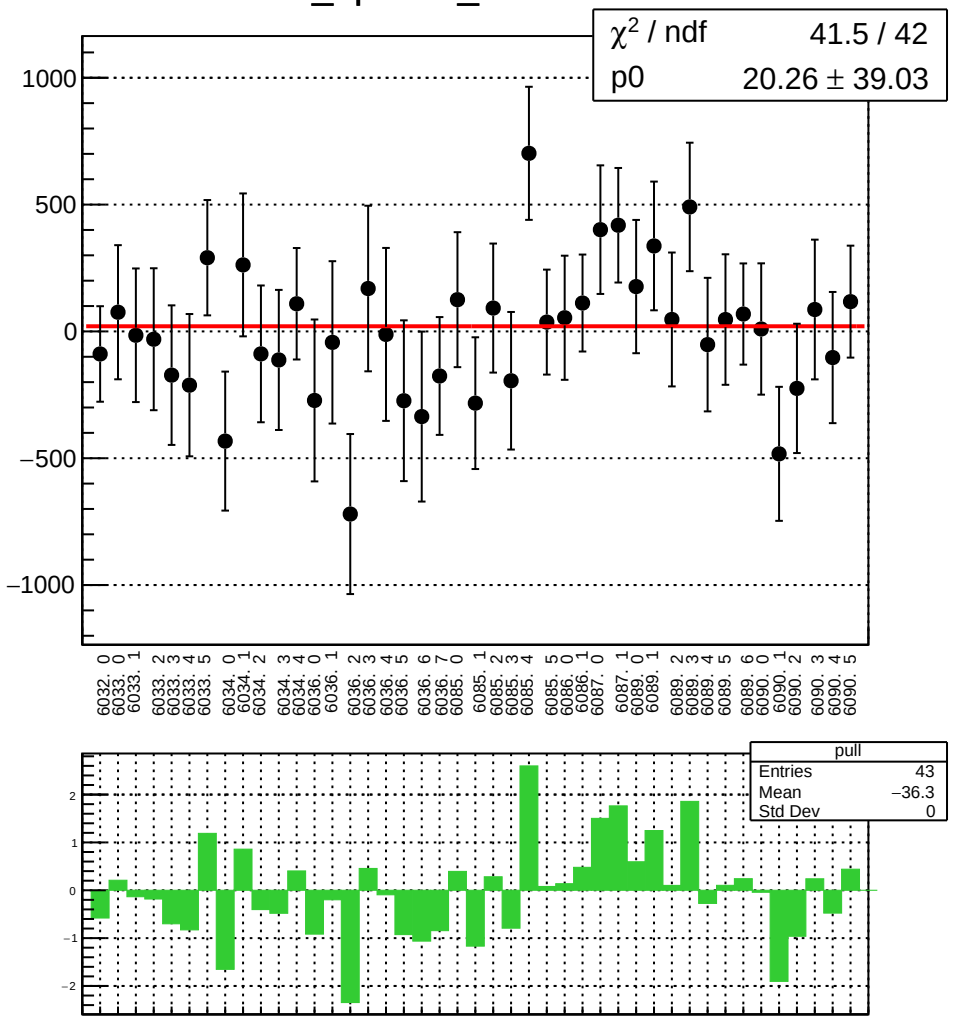

pull1D
Entries 43
Mean 0.02773
Std Dev 1.005

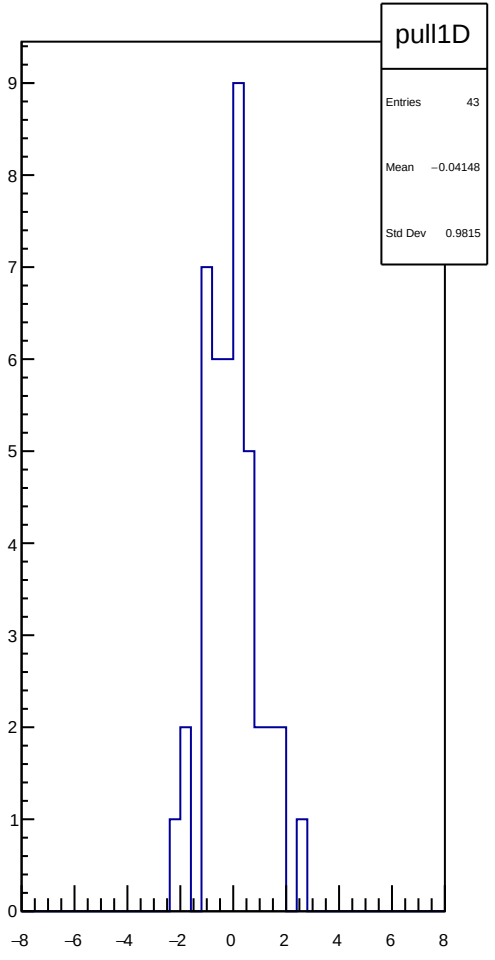

diff_targ_thetaY_rms vs run
χ² / ndf 1.607e+04 / 42
p0 315.7 ± 0.341
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

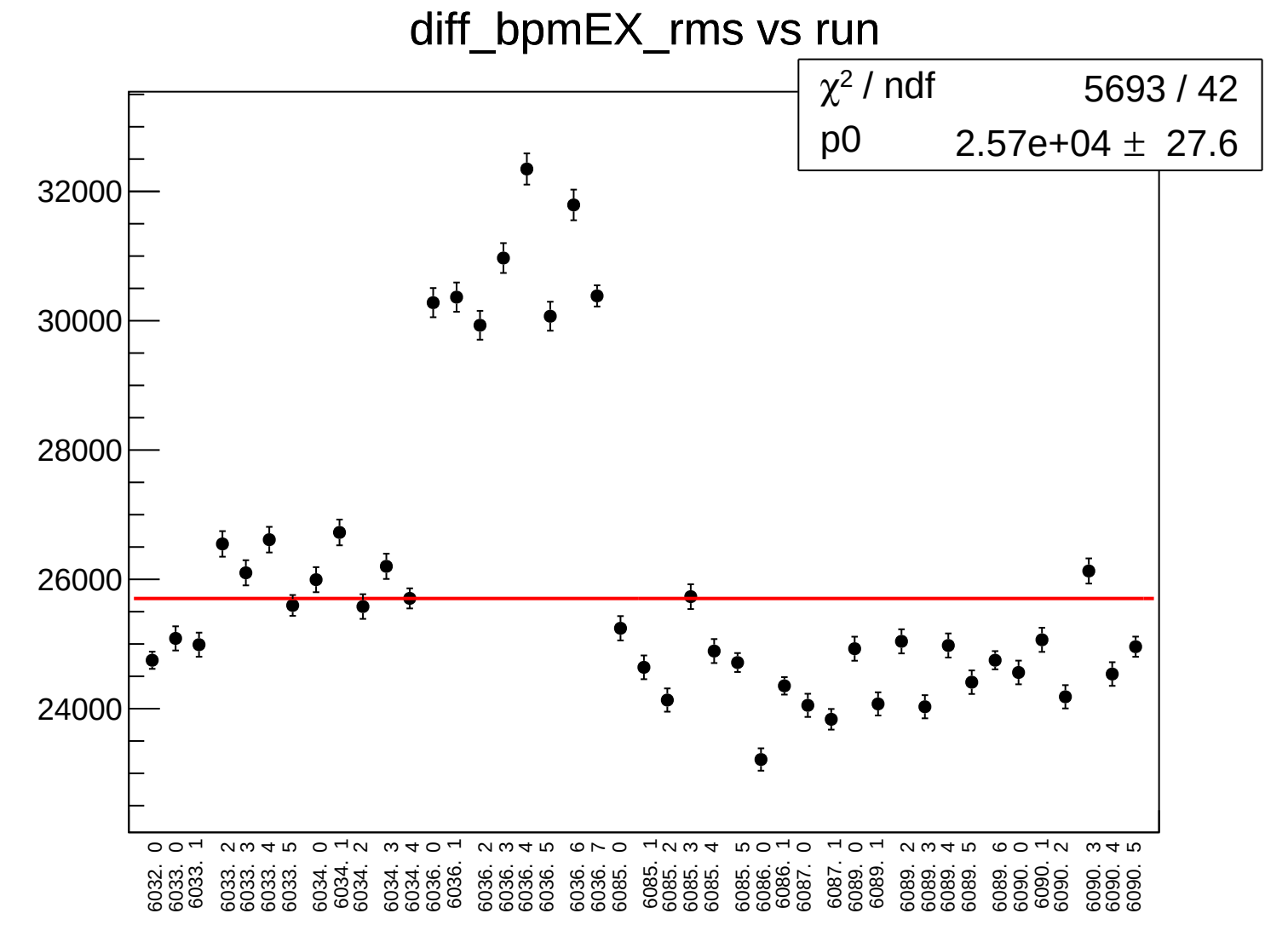

diff_bpmE_mean vs run
χ² / ndf 41.5 / 42
p0 20.26 ± 39.03
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.3
Std Dev 0
2
1
0
−1
−2

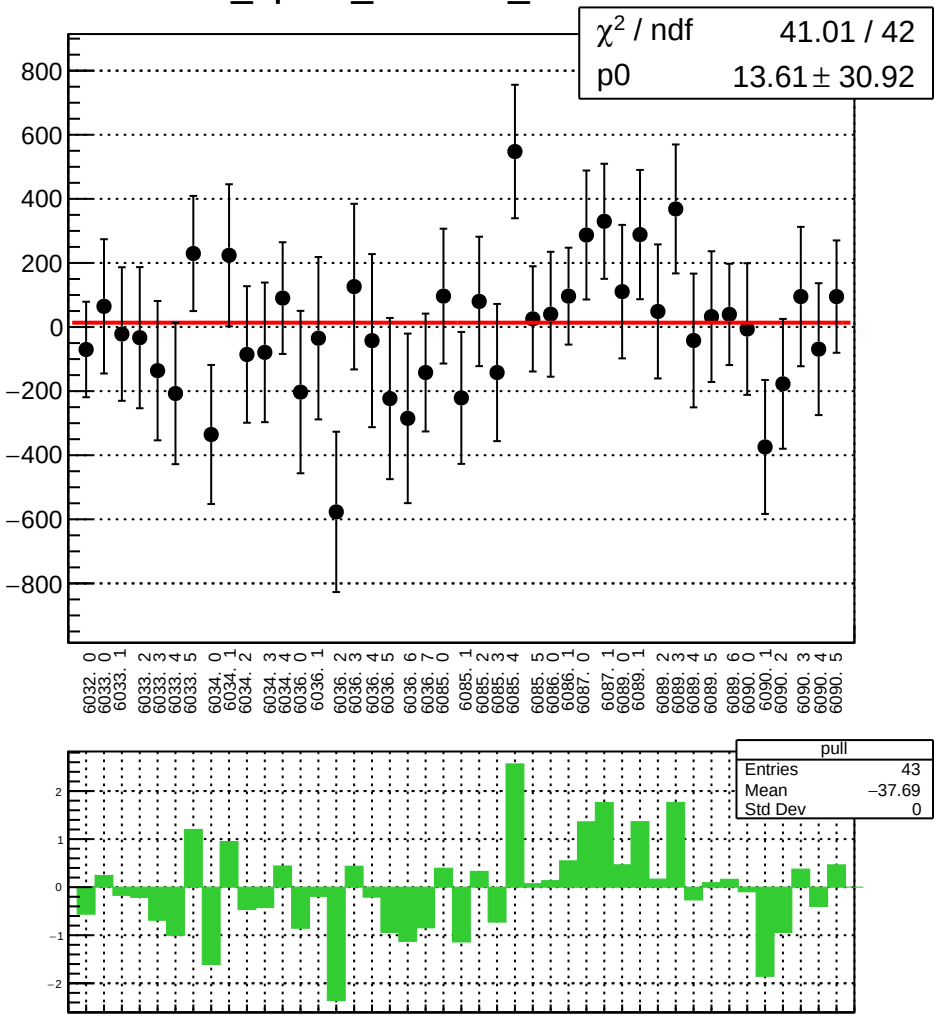

pull1D
Entries 43
Mean −0.04148
Std Dev 0.9815
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

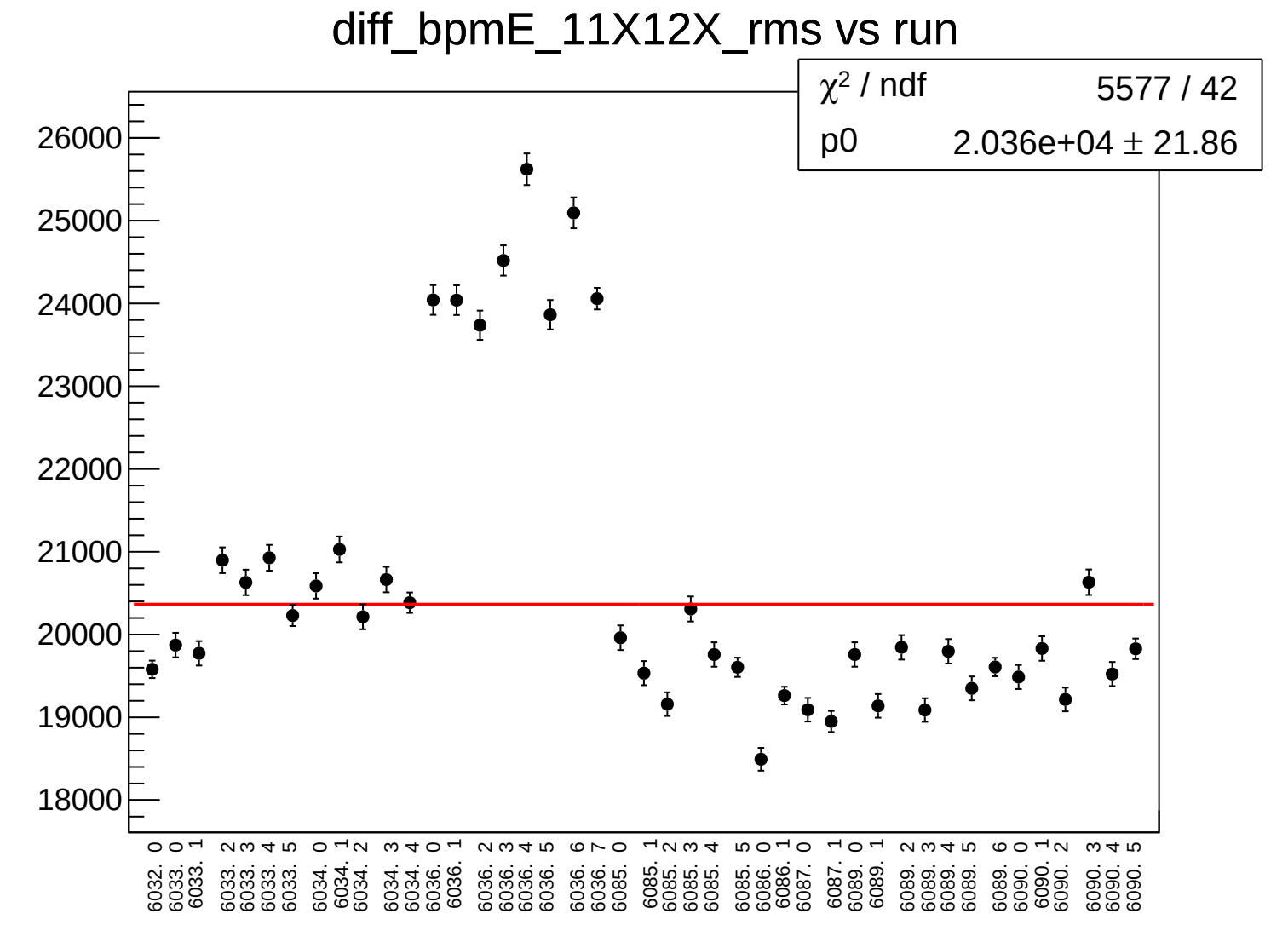

diff_bpmE_rms vs run
χ² / ndf 5693 / 42
p0 2.57e+04 ± 27.6
32000
30000
28000
26000
24000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

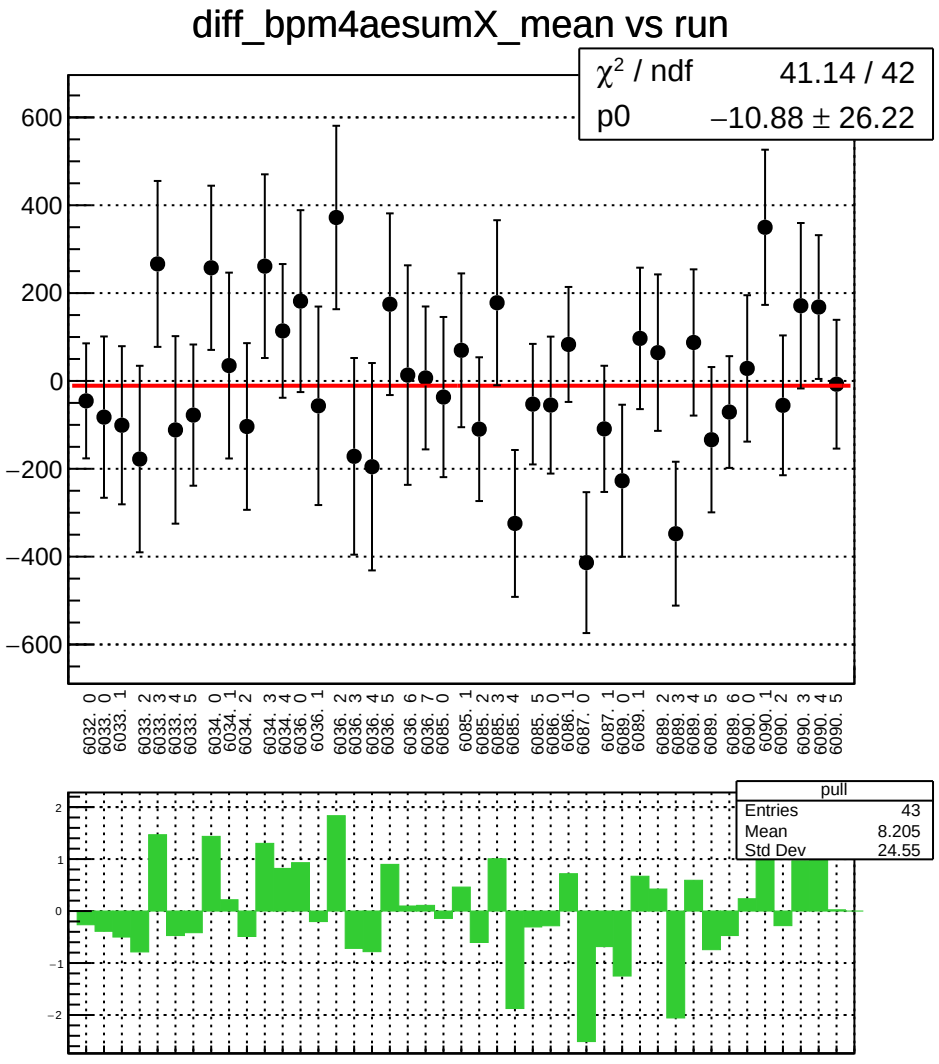

diff_bpmEX_mean vs run
χ² / ndf 41.5 / 42
p0 20.26 ± 39.03
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.3
Std Dev 0
2
1
0
−1
−2

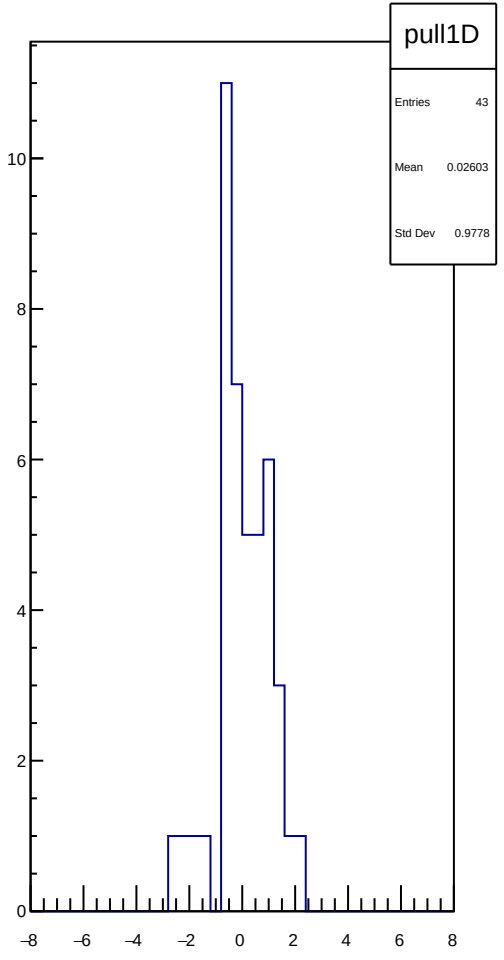

pull1D
Entries 43
Mean −0.04148
Std Dev 0.9815
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

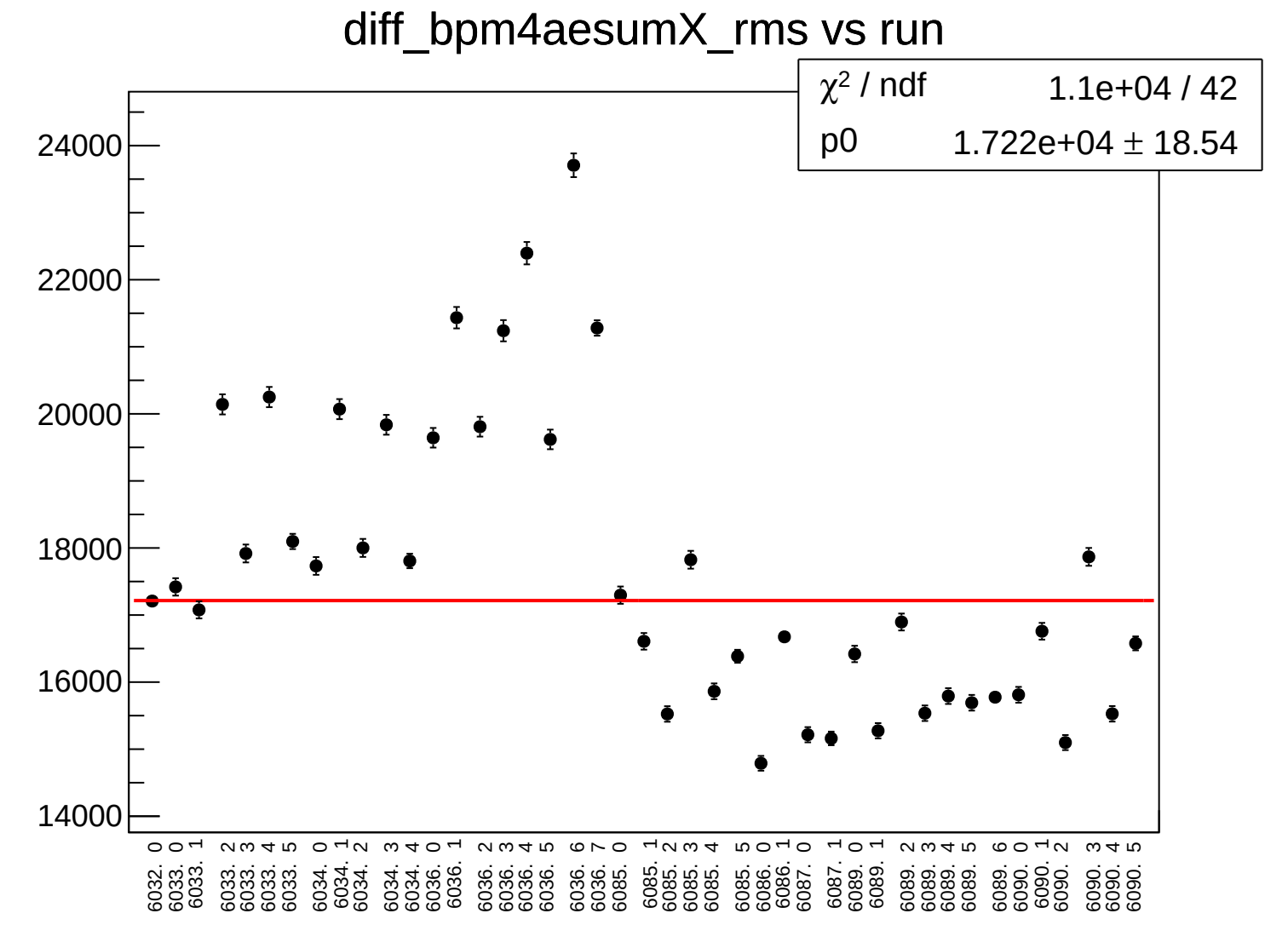

diff_bpmEX_rms vs run
χ² / ndf 5693 / 42
p0 2.57e+04 ± 27.6
32000
30000
28000
26000
24000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

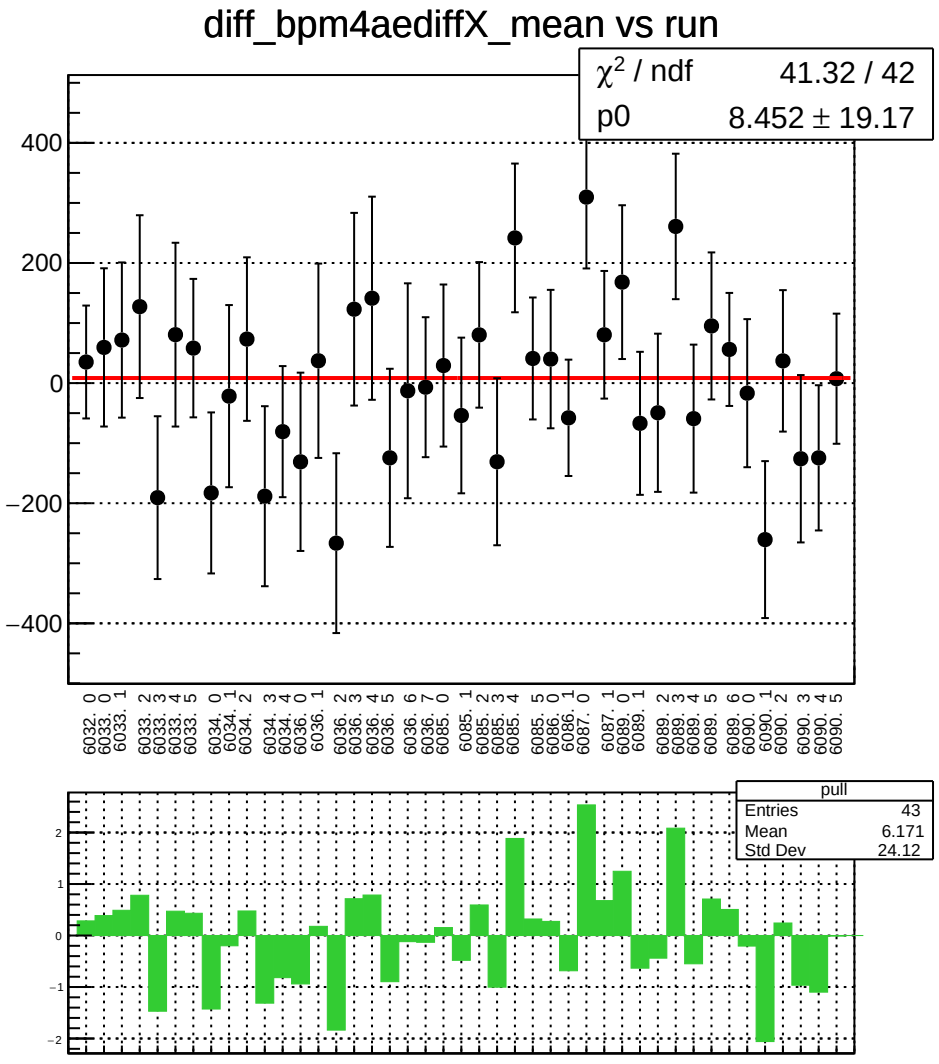

diff_bpmE_11X12X_mean vs run
χ² / ndf 41.01 / 42
p0 13.61 ± 30.92
pull
Entries 43
Mean −37.69
Std Dev 0
pull1D
Entries 43
Mean −0.04192
Std Dev 0.9757

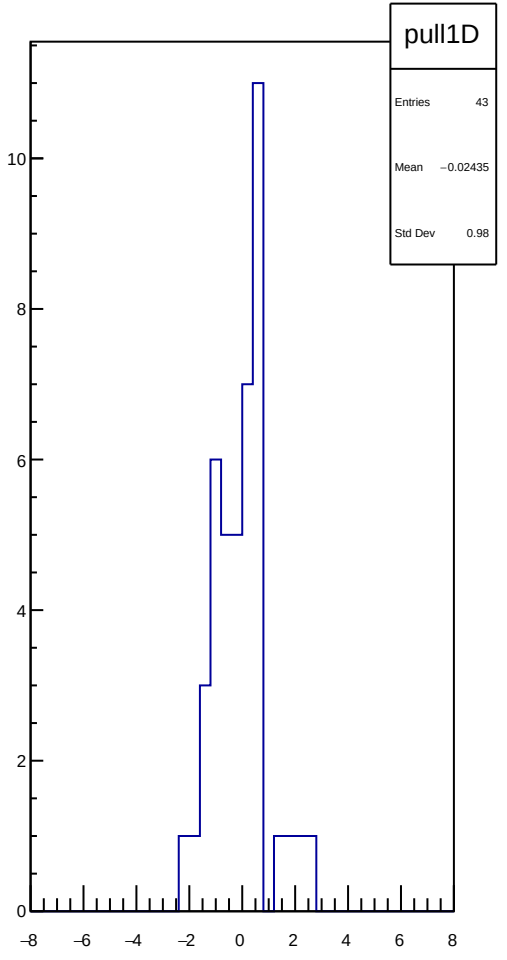

diff_bpmE_11X12X_rms vs run
χ² / ndf 5577 / 42
p0 2.036e+04 ± 21.86
26000
25000
24000
23000
22000
21000
20000
19000
18000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

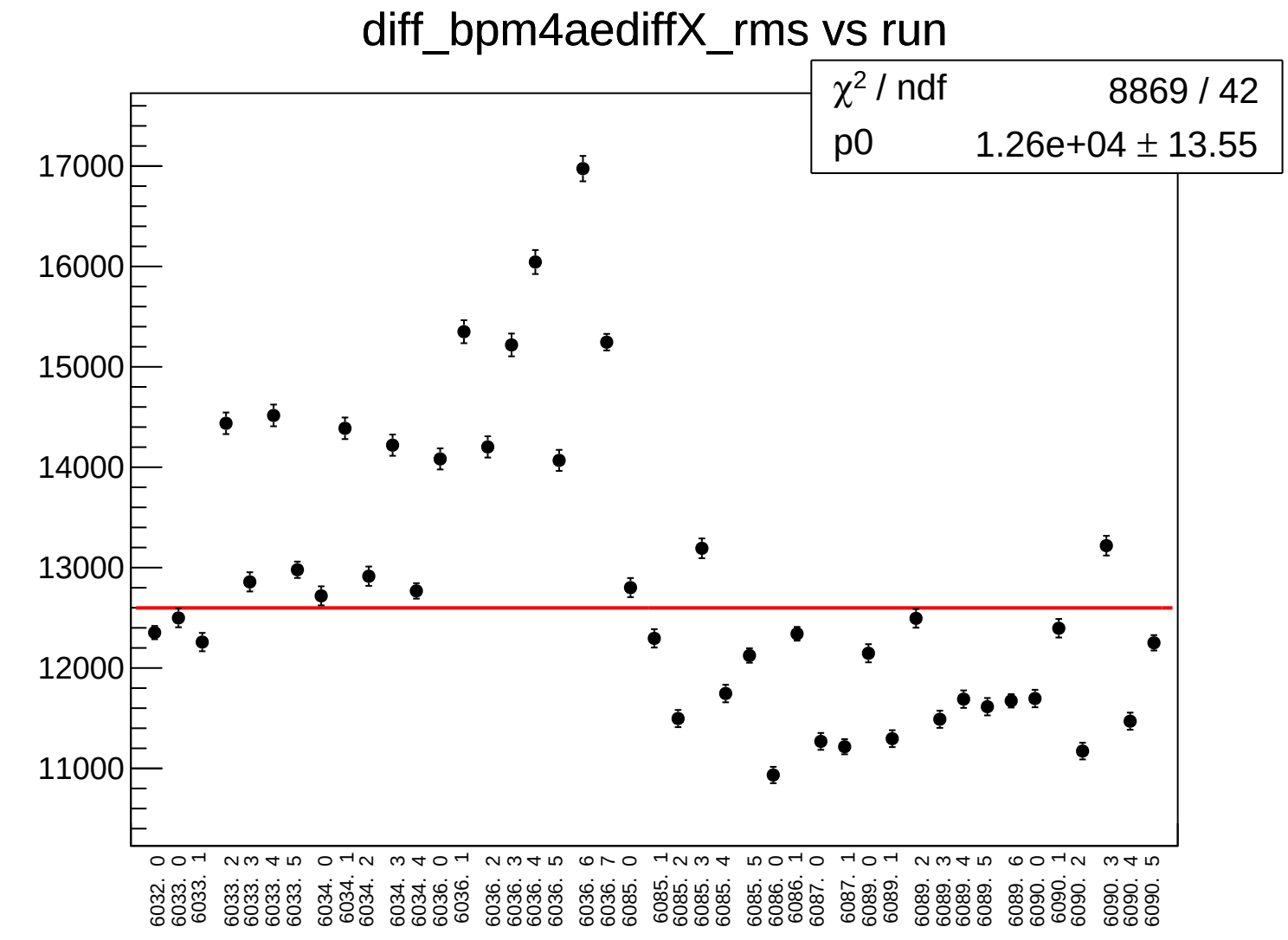

diff_bpm4aesumX_mean vs run
χ² / ndf 41.14 / 42
p0 −10.88 ± 26.22
600
400
200
0
−200
−400
−600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.205
Std Dev 24.55
2
1
0
−1
−2

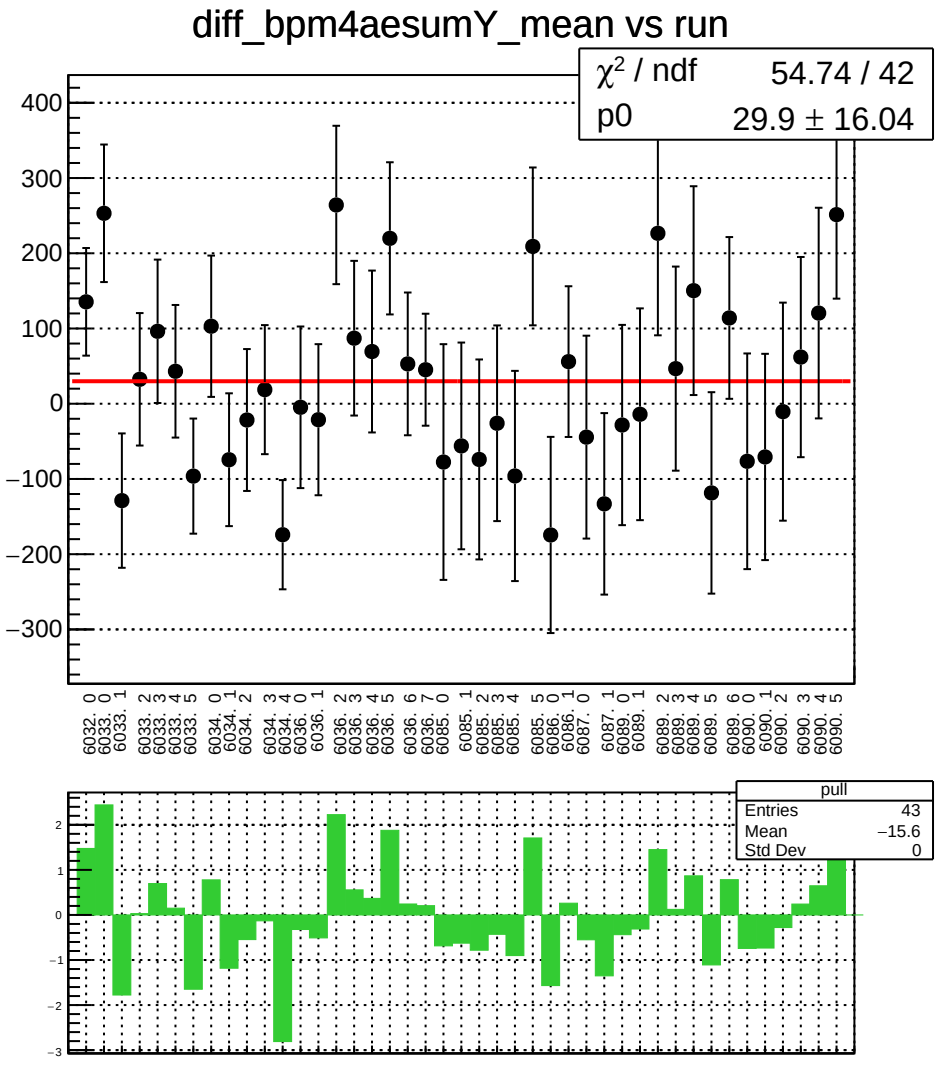

pull1D
Entries 43
Mean 0.02603
Std Dev 0.9778
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

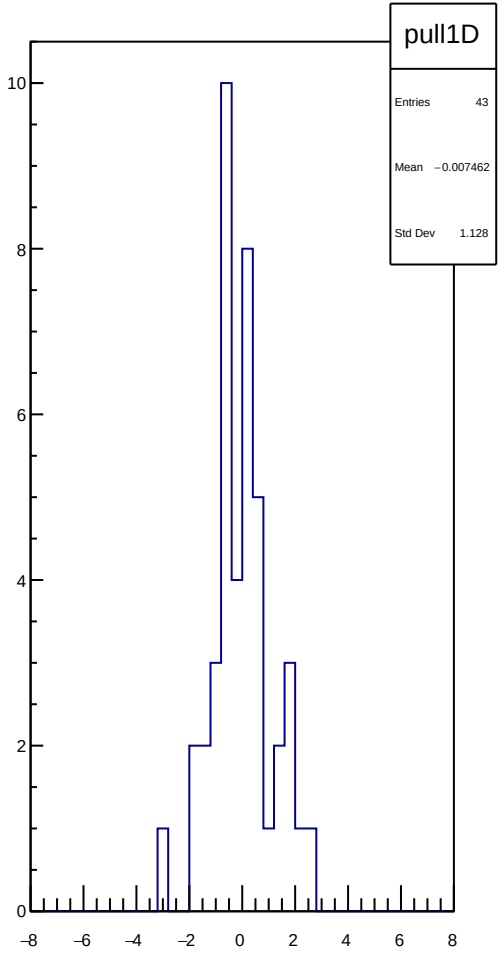

diff_bpm4aesumX_rms vs run
χ² / ndf 1.1e+04 / 42
p0 1.722e+04 ± 18.54
24000
22000
20000
18000
16000
14000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

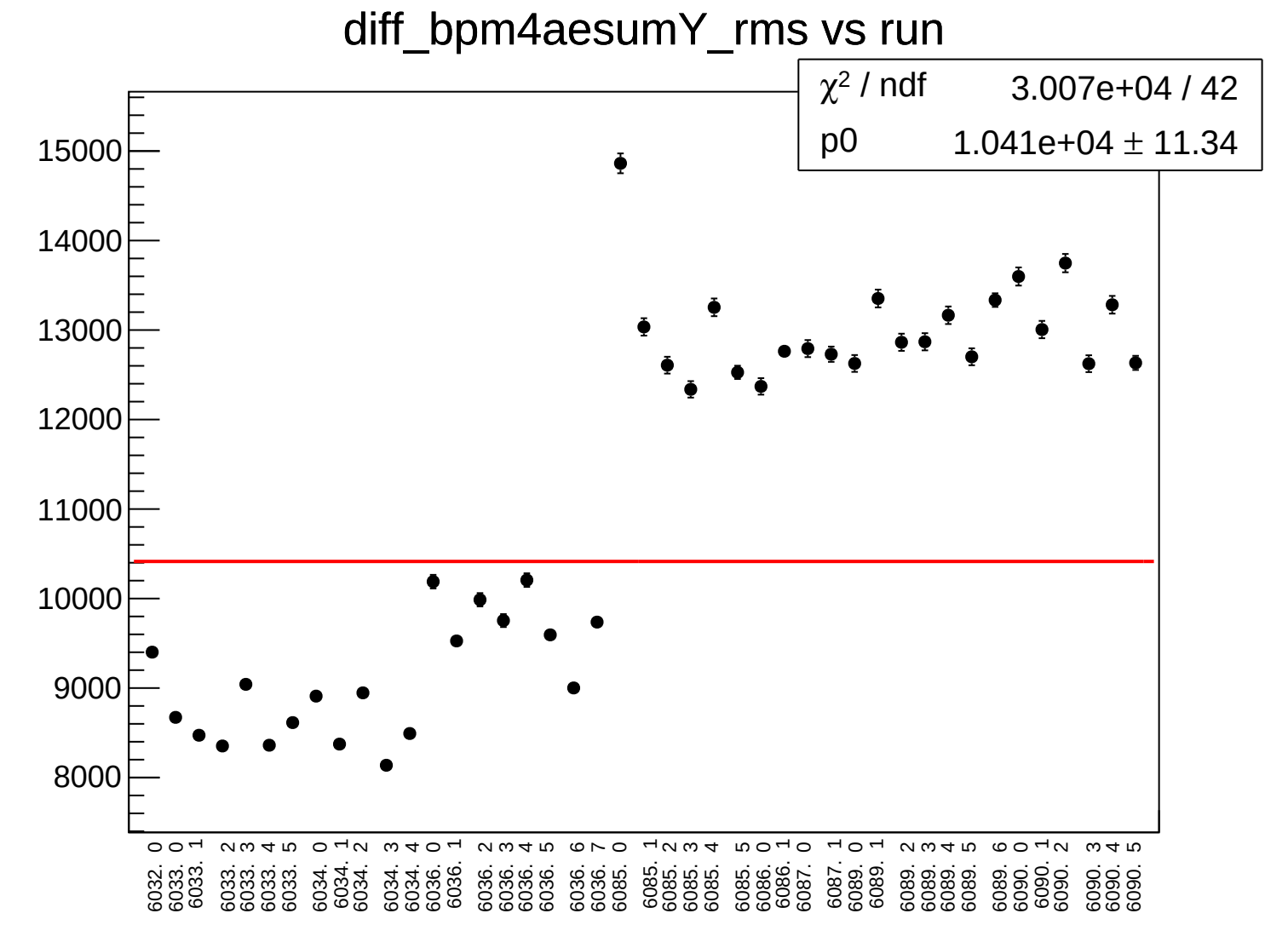

diff_bpm4aediffX_mean vs run
χ^2 / ndf 41.32 / 42
p0 8.452 ± 19.17
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.171
Std Dev 24.12
2
1
0
−1
−2

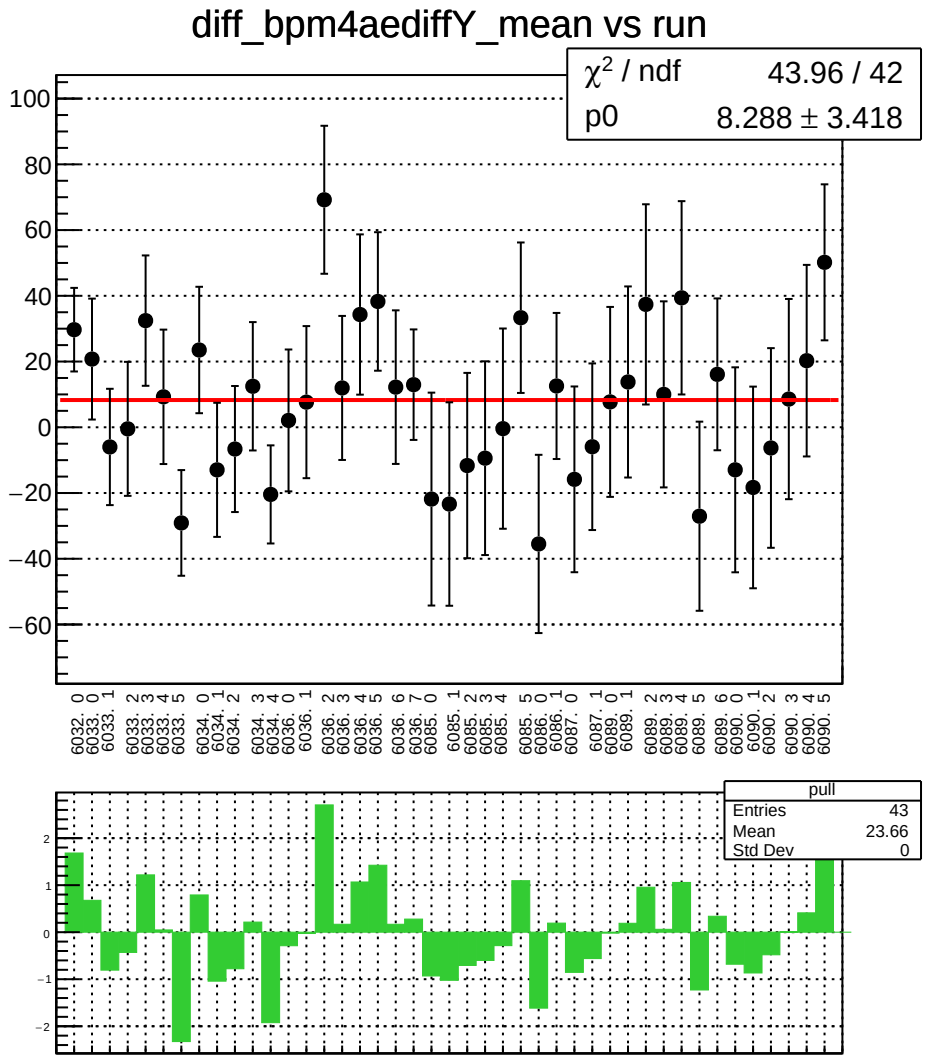

pull1D
Entries 43
Mean −0.02435
Std Dev 0.98
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

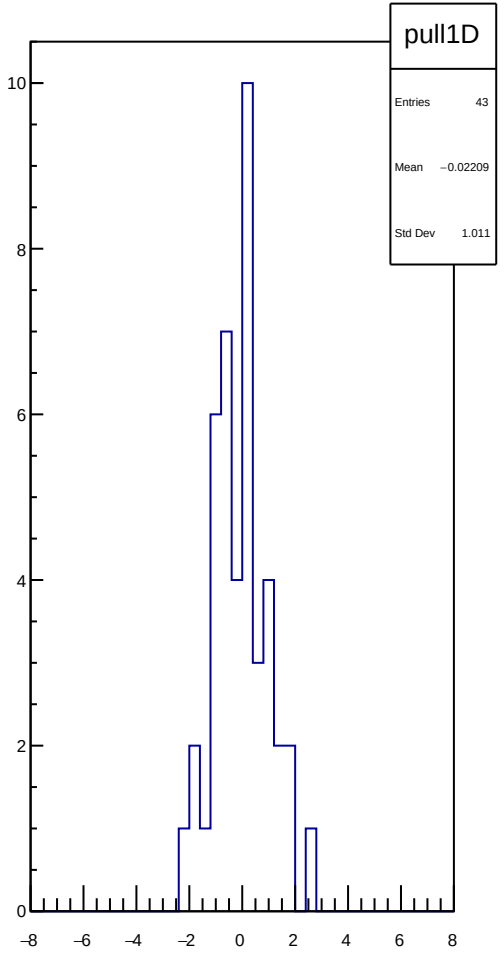

diff_bpm4aediffX_rms vs run
χ² / ndf 8869 / 42
p0 1.26e+04 ± 13.55
17000
16000
15000
14000
13000
12000
11000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

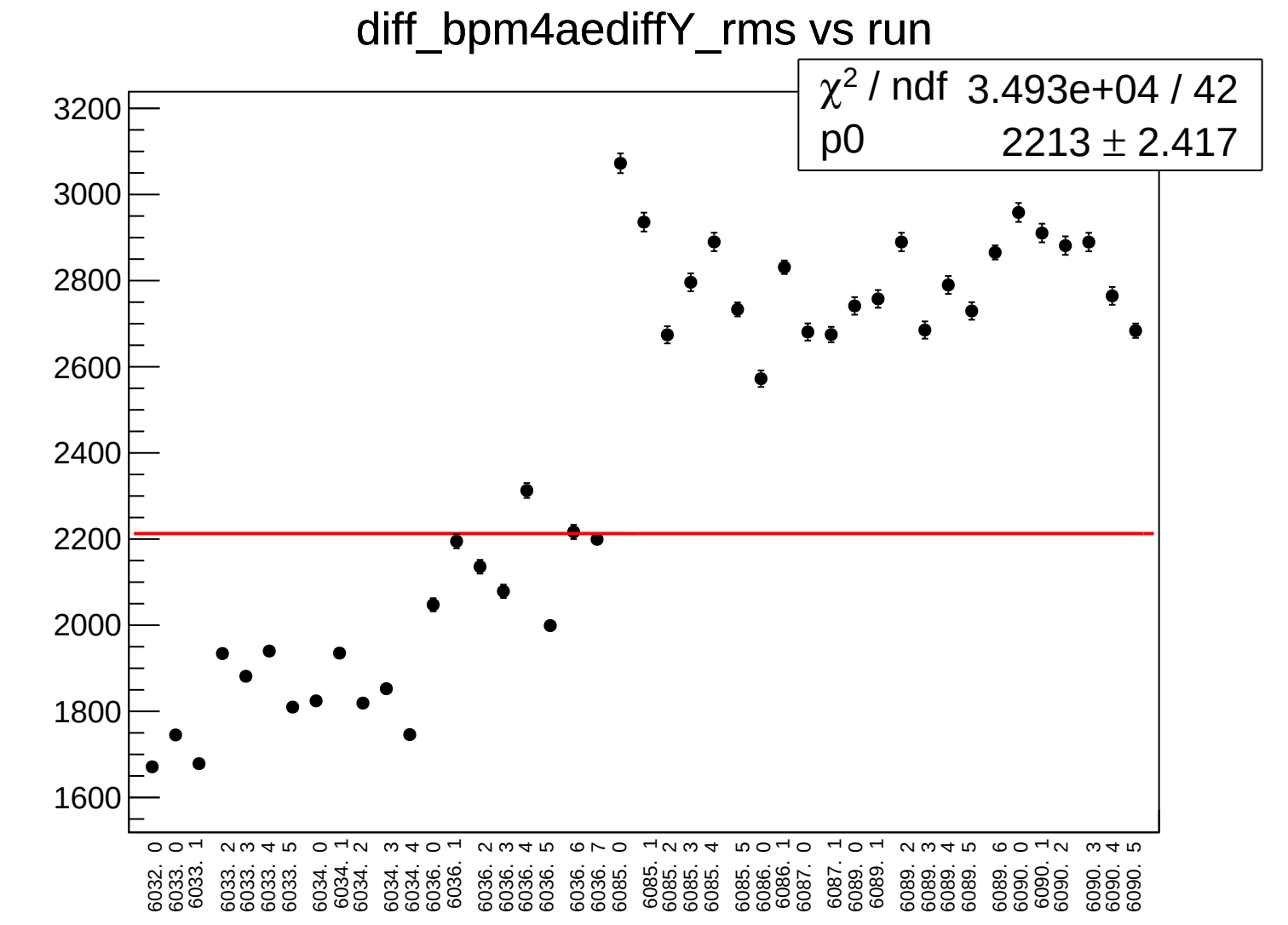

diff_bpm4aesumY_mean vs run
χ² / ndf 54.74 / 42
p0 29.9 ± 16.04
400
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −15.6
Std Dev 0
2
1
0
−1
−2
−3

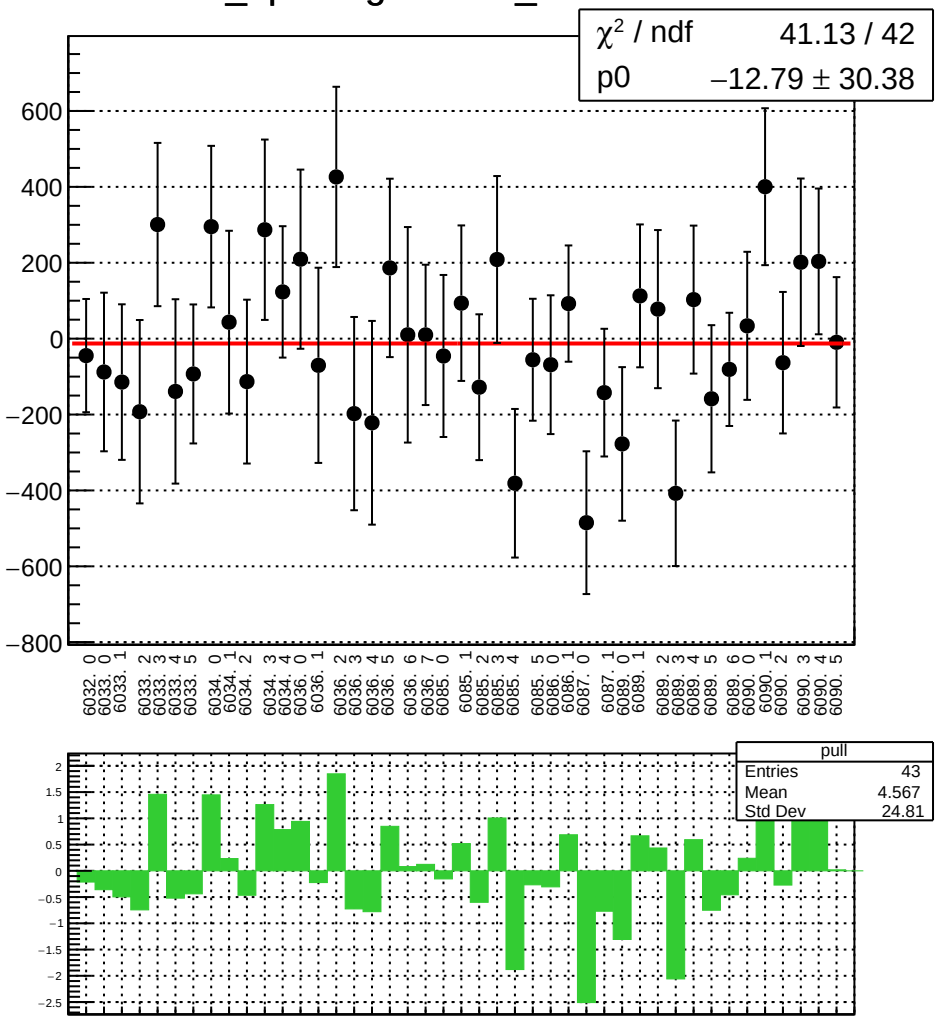

pull1D
Entries 43
Mean −0.007462
Std Dev 1.128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

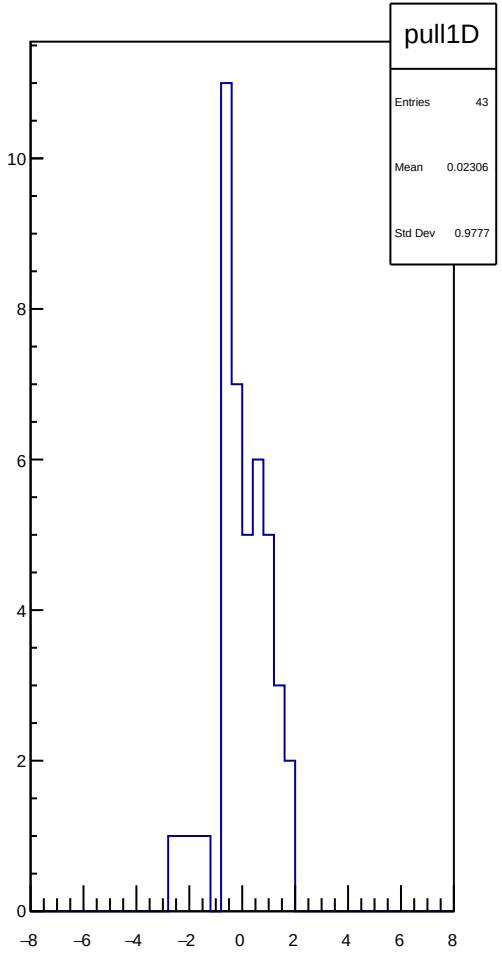

diff_bpm4aesumY_rms vs run
χ² / ndf 3.007e+04 / 42
p0 1.041e+04 ± 11.34
15000
14000
13000
12000
11000
10000
9000
8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

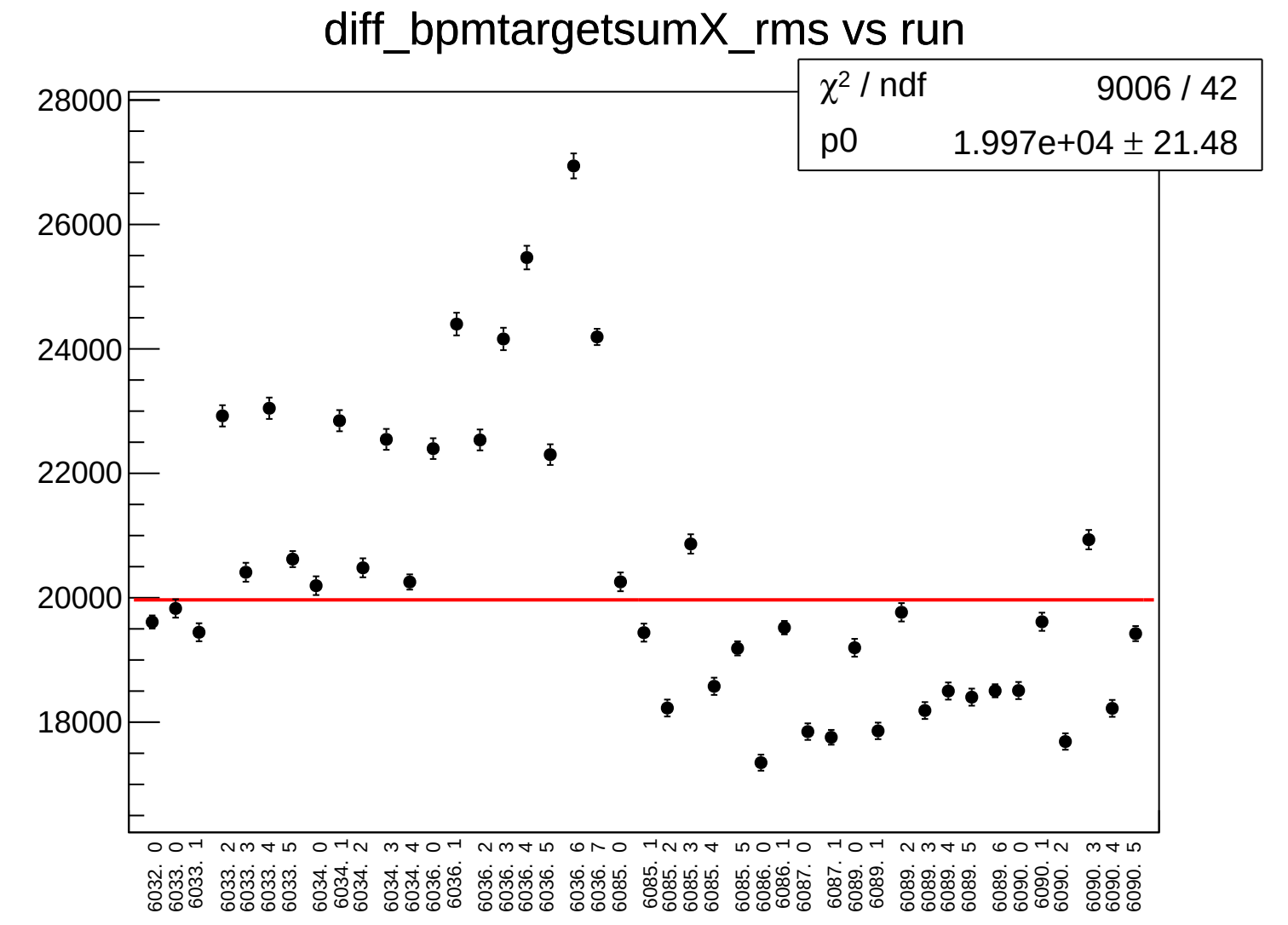

diff_bpm4aediffY_mean vs run
χ² / ndf 43.96 / 42
p0 8.288 ± 3.418
100
80
60
40
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 23.66
Std Dev 0
2
1
0
−1
−2

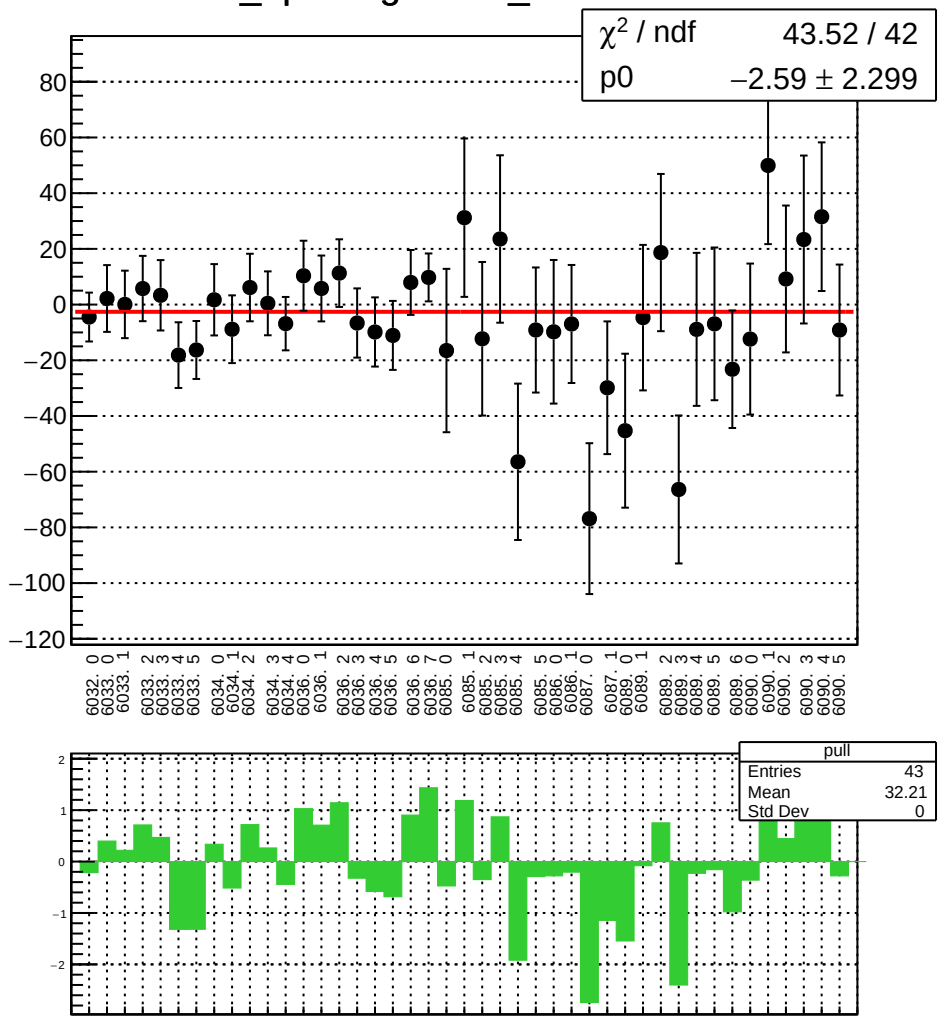

pull1D
Entries 43
Mean −0.02209
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

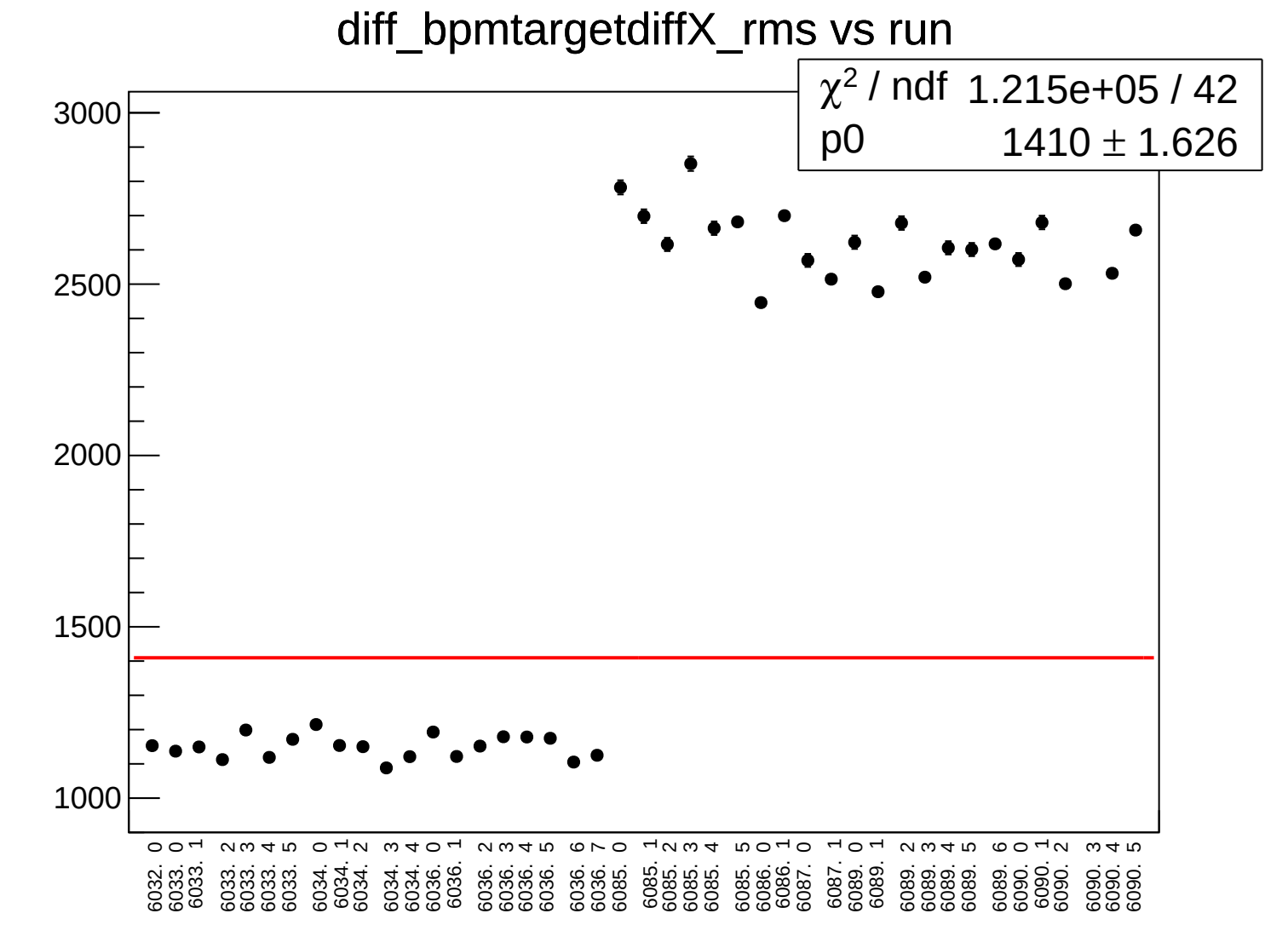

diff_bpm4aediffY_rms vs run
χ² / ndf 3.493e+04 / 42
p0 2213 ± 2.417
3200
3000
2800
2600
2400
2200
2000
1800
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

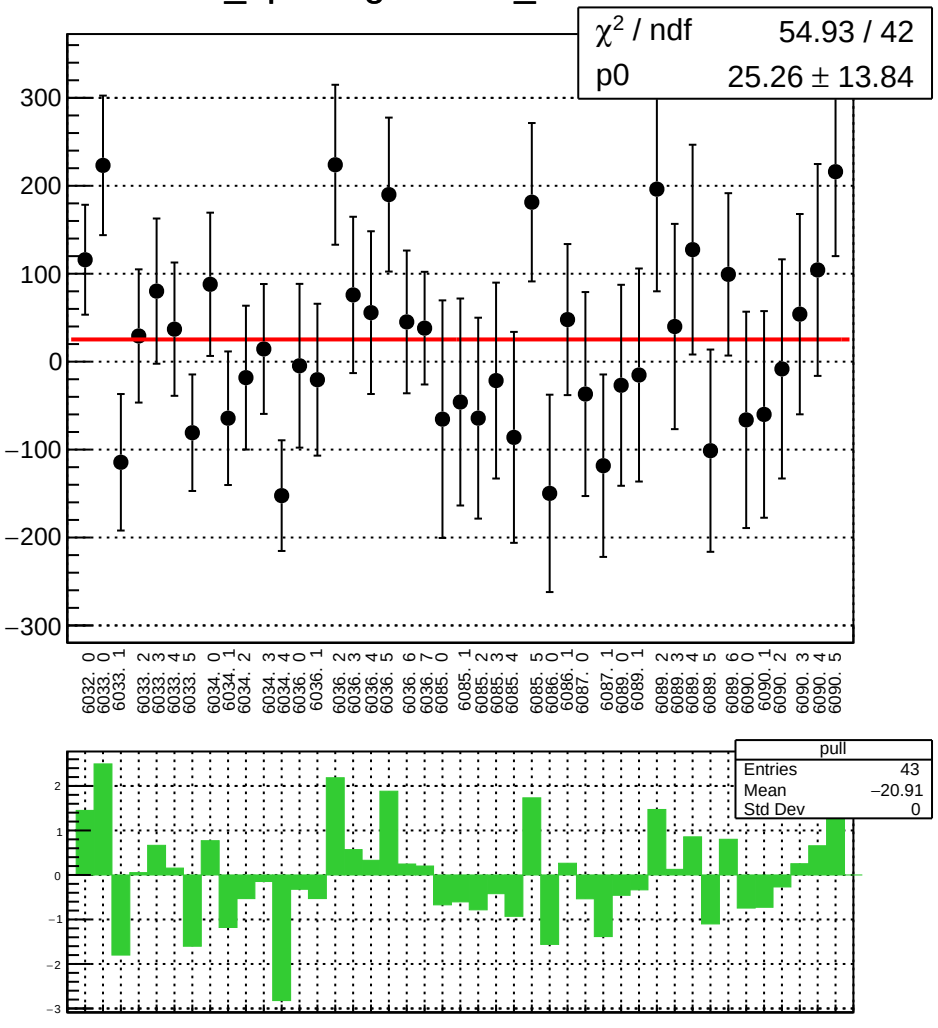

diff_bpmtargetsumX_mean vs run
χ² / ndf 41.13 / 42
p0 −12.79 ± 30.38
pull
Entries 43
Mean 4.567
Std Dev 24.81

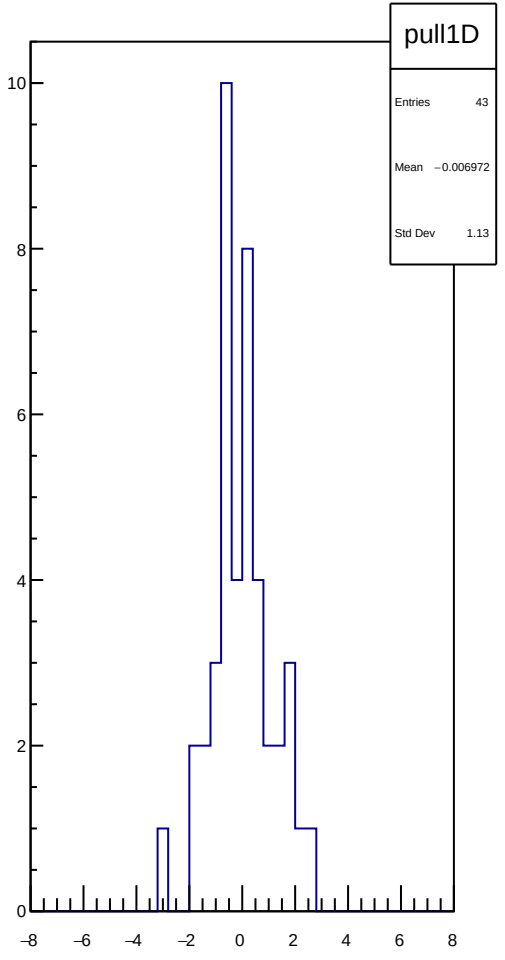

pull1D
Entries 43
Mean 0.02306
Std Dev 0.9777

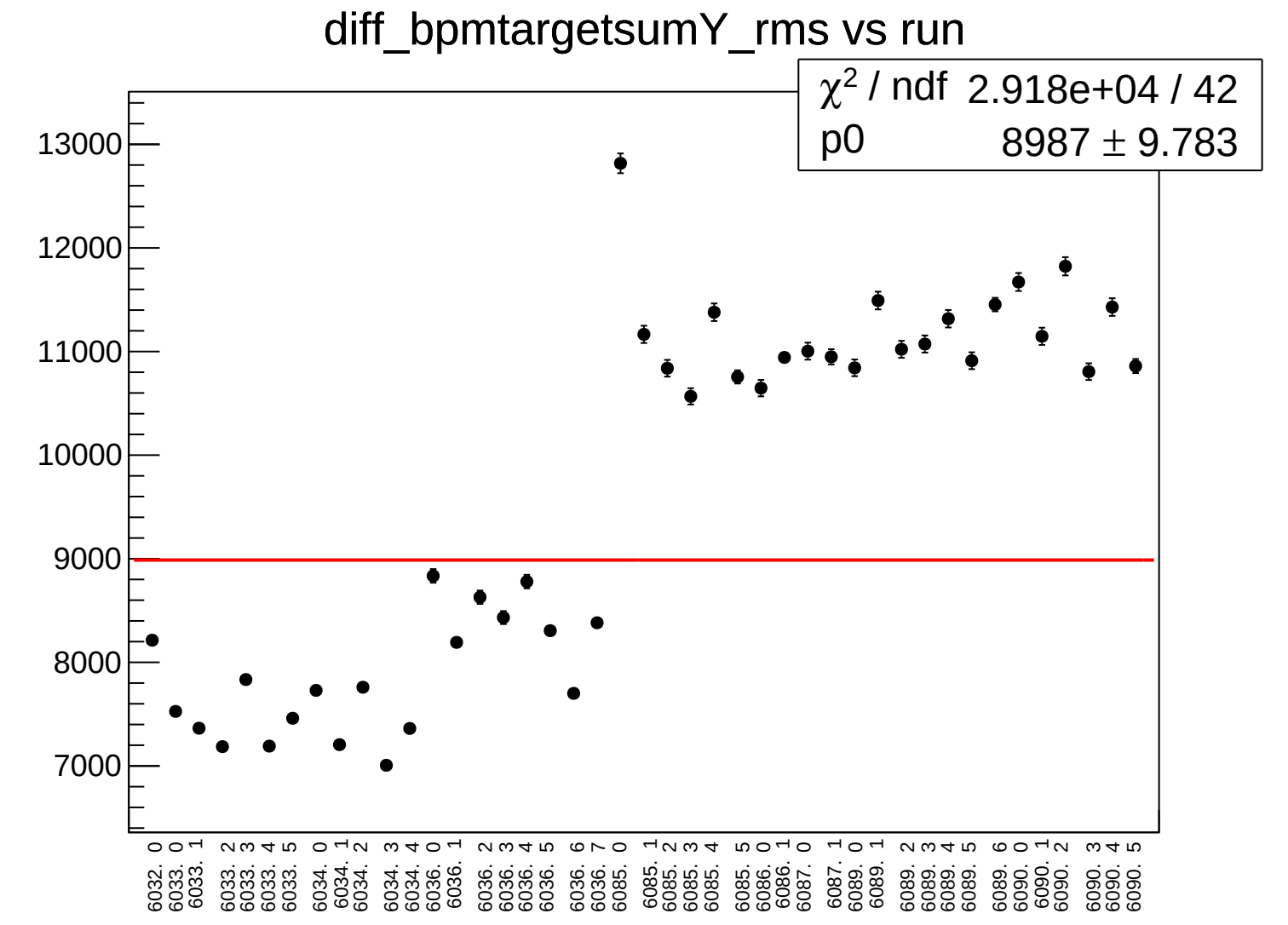

diff_bpmtargetsumX_rms vs run
χ² / ndf 9006 / 42
p0 1.997e+04 ± 21.48
28000
26000
24000
22000
20000
18000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

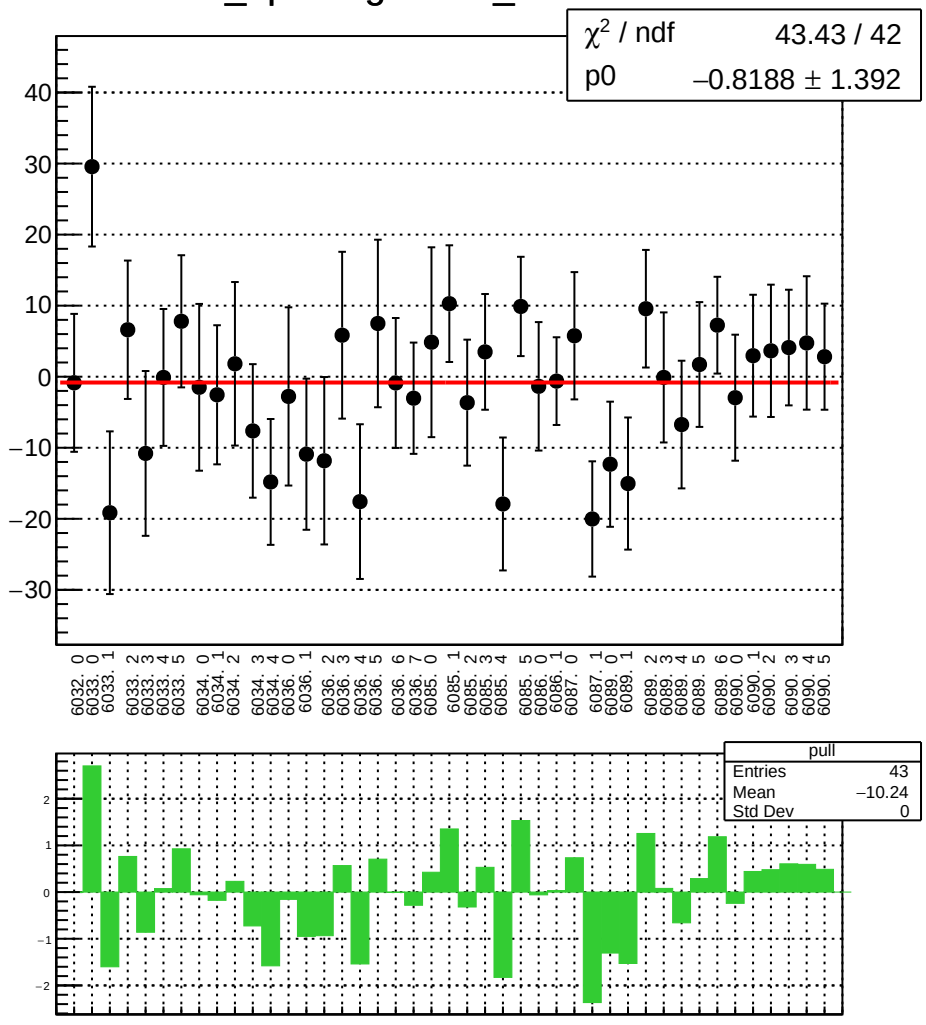

diff_bpmtargetdiffX_mean vs run
χ² / ndf 43.52 / 42
p0 −2.59 ± 2.299
pull
Entries 43
Mean 32.21
Std Dev 0
pull1D
Entries 43
Mean −0.07541
Std Dev 1.003

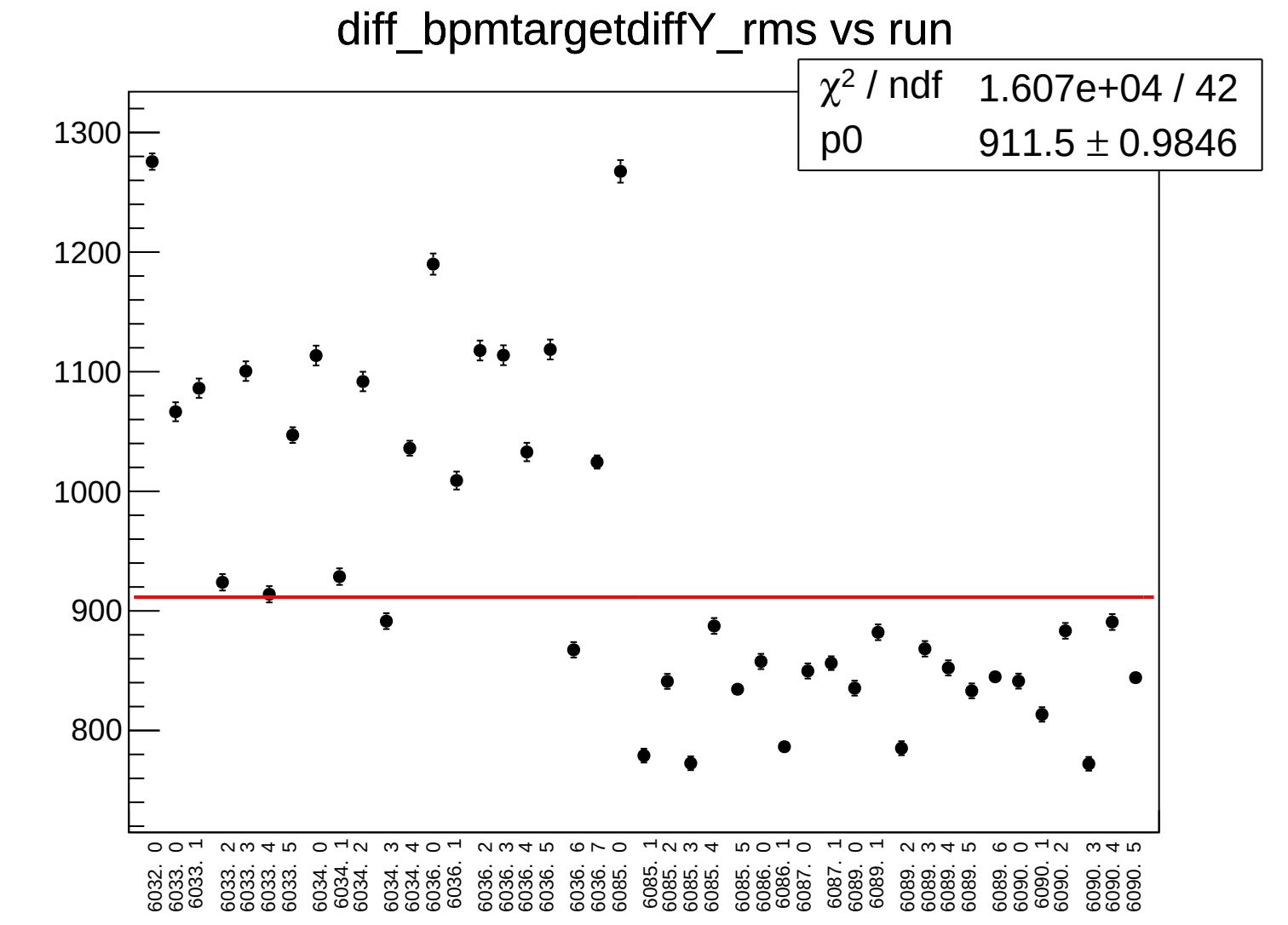

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.215e+05 / 42
p0 1410 ± 1.626
3000
2500
2000
1500
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

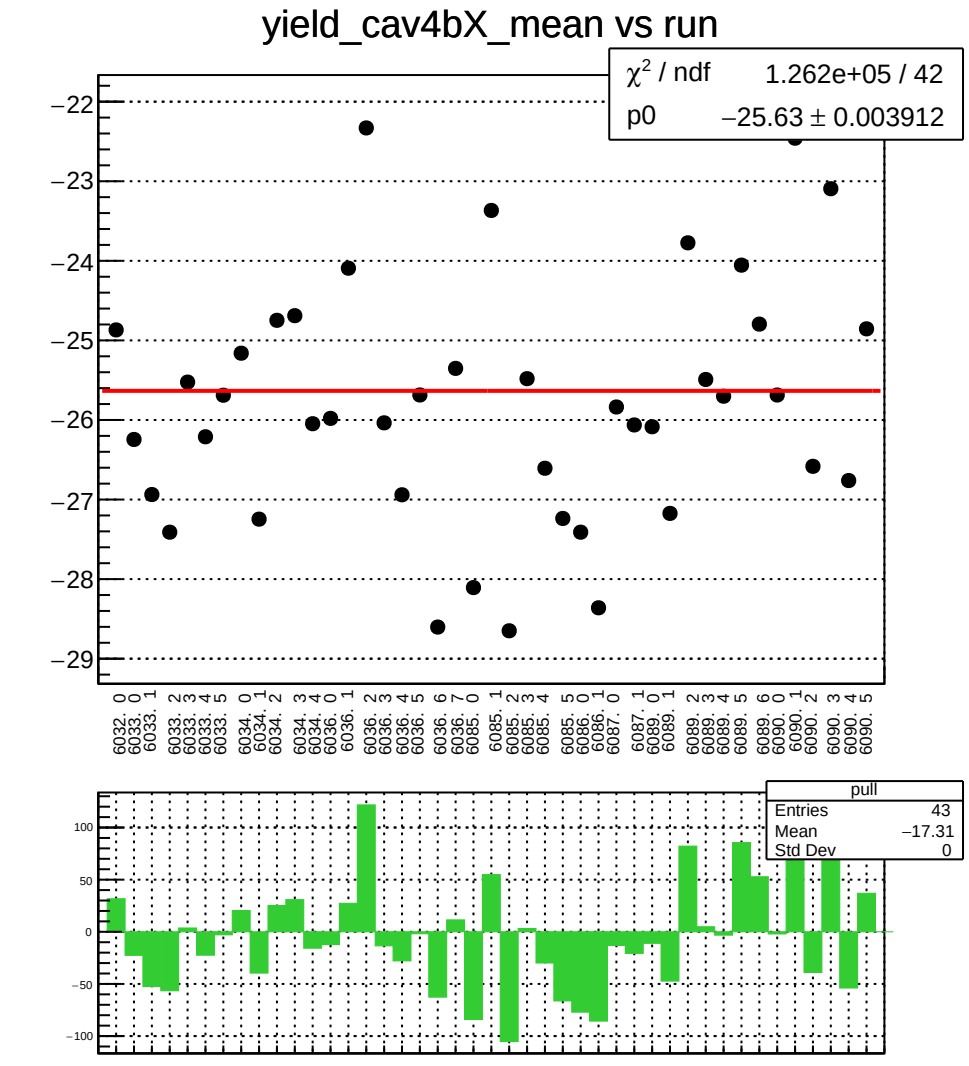

diff_bpmtargetsumY_mean vs run
χ² / ndf 54.93 / 42
p0 25.26 ± 13.84
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −20.91
Std Dev 0
2
1
0
−1
−2
−3

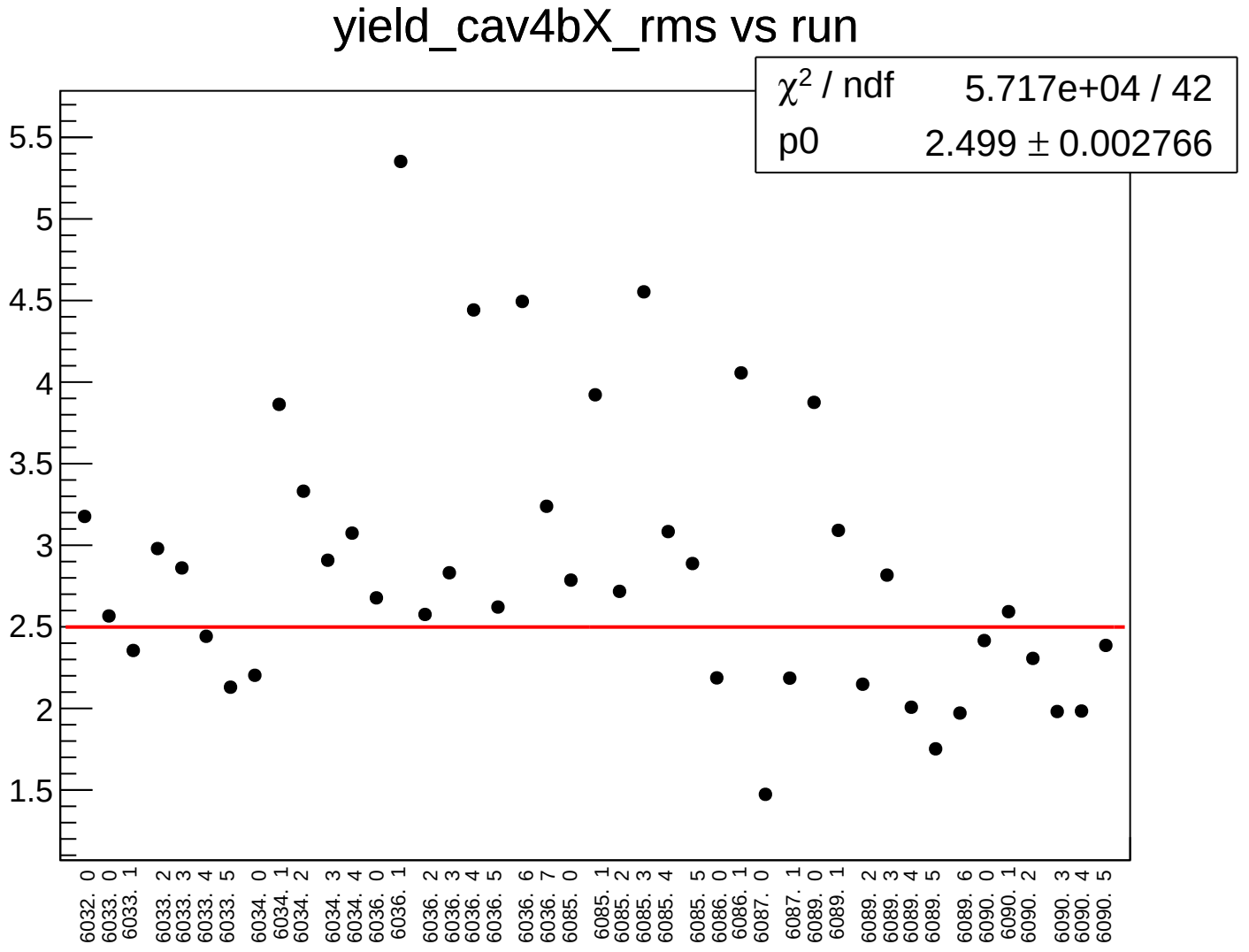

pull1D
Entries 43
Mean −0.006972
Std Dev 1.13
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

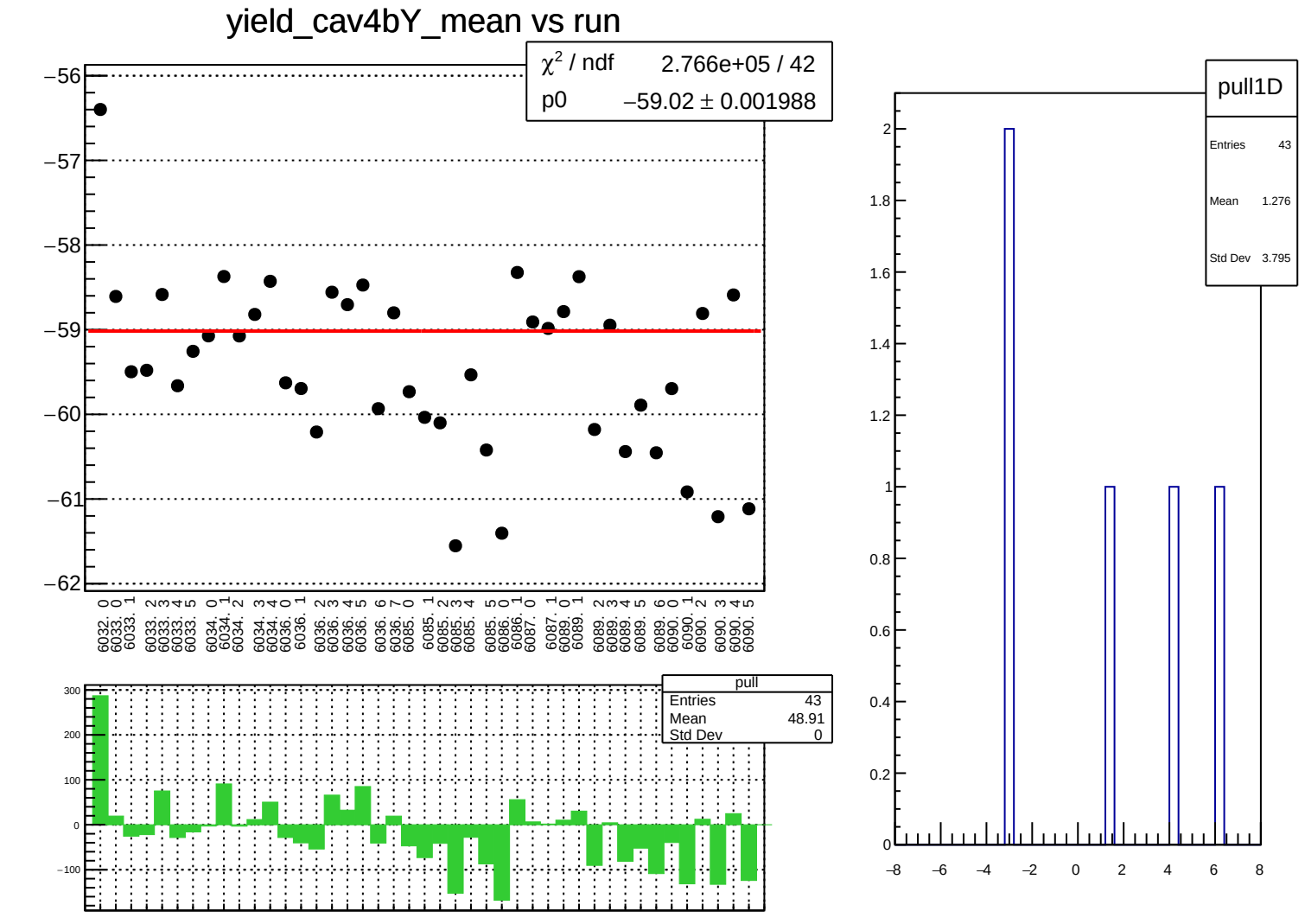

diff_bpmtargetsumY_rms vs run
χ² / ndf 2.918e+04 / 42
p0 8987 ± 9.783
13000
12000
11000
10000
9000
8000
7000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

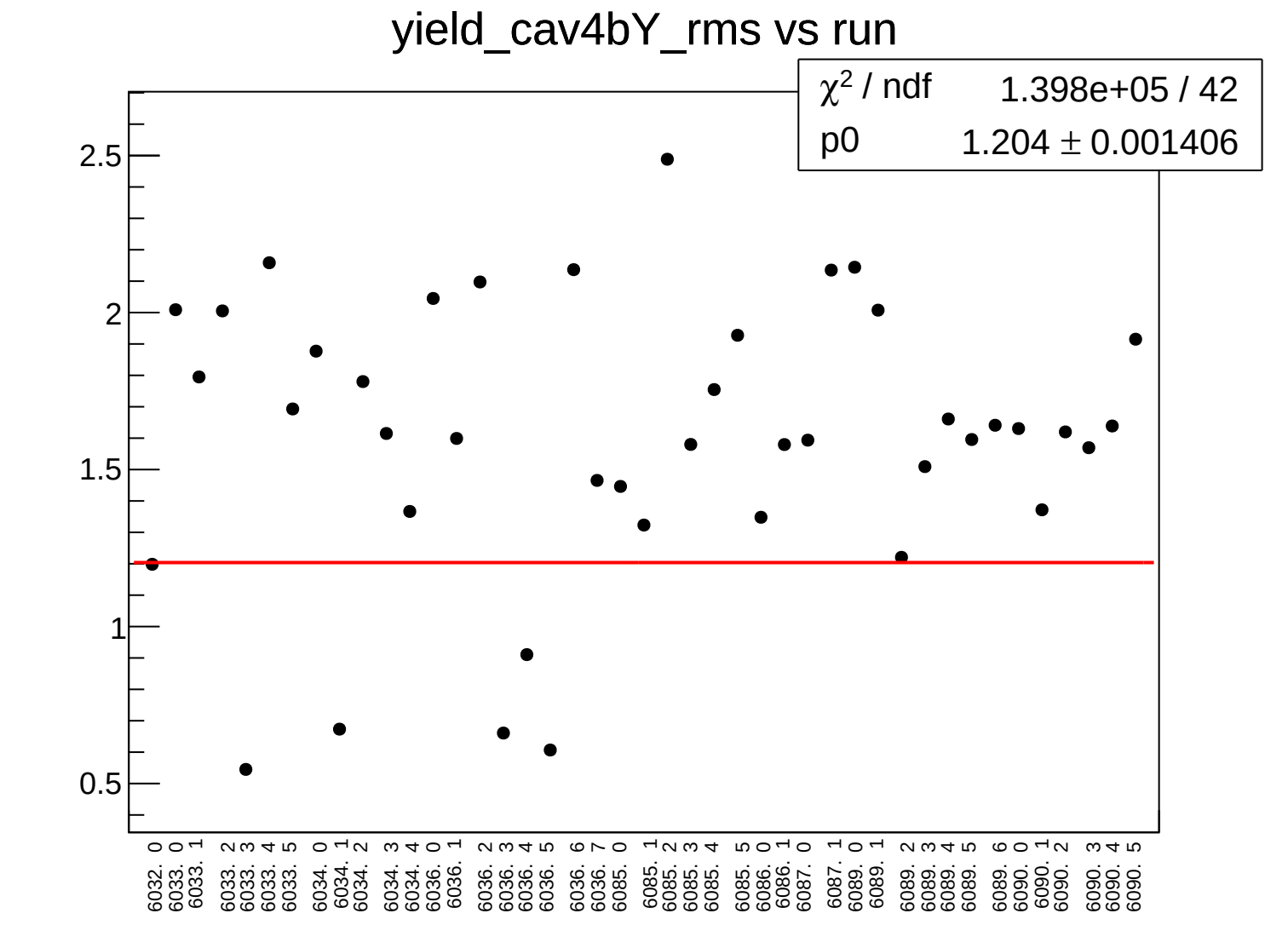

diff_bpmtargetdiffY_mean vs run
χ² / ndf 43.43 / 42
p0 −0.8188 ± 1.392
40
30
20
10
0
−10
−20
−30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −10.24
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02773
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

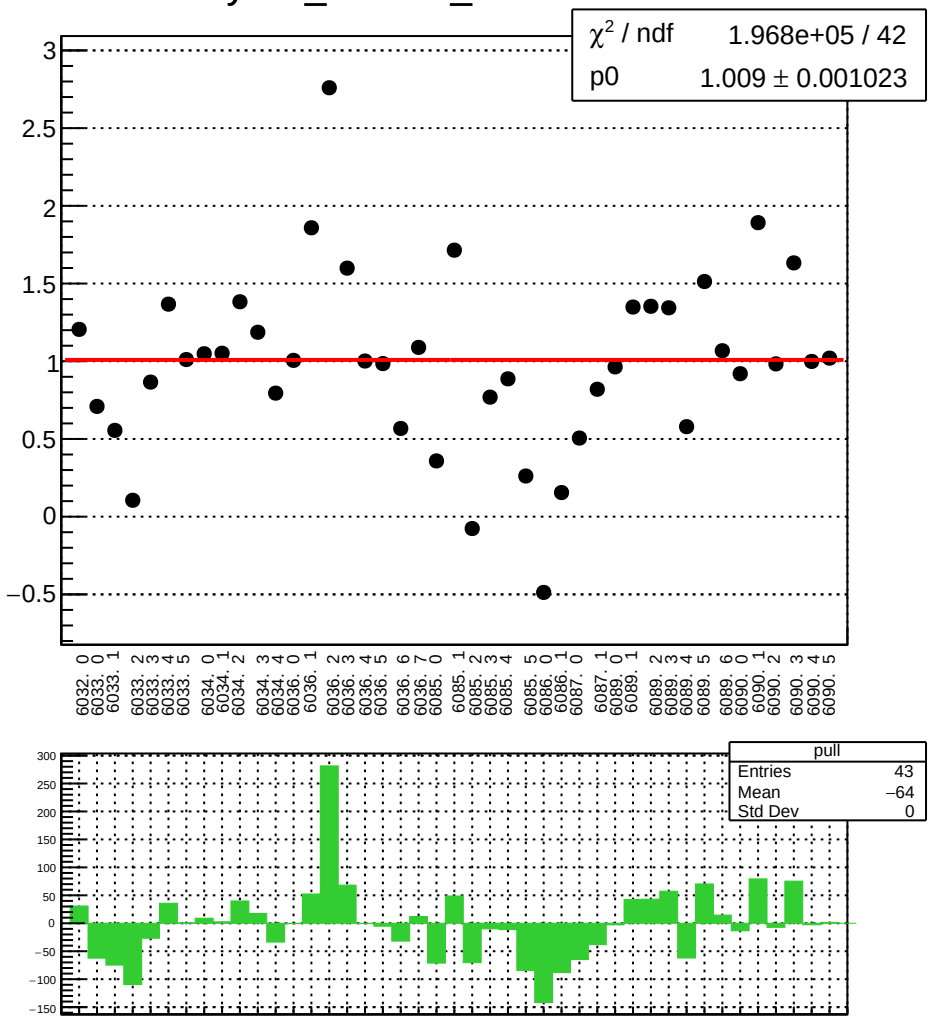

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.607e+04 / 42
p0 911.5 ± 0.9846
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

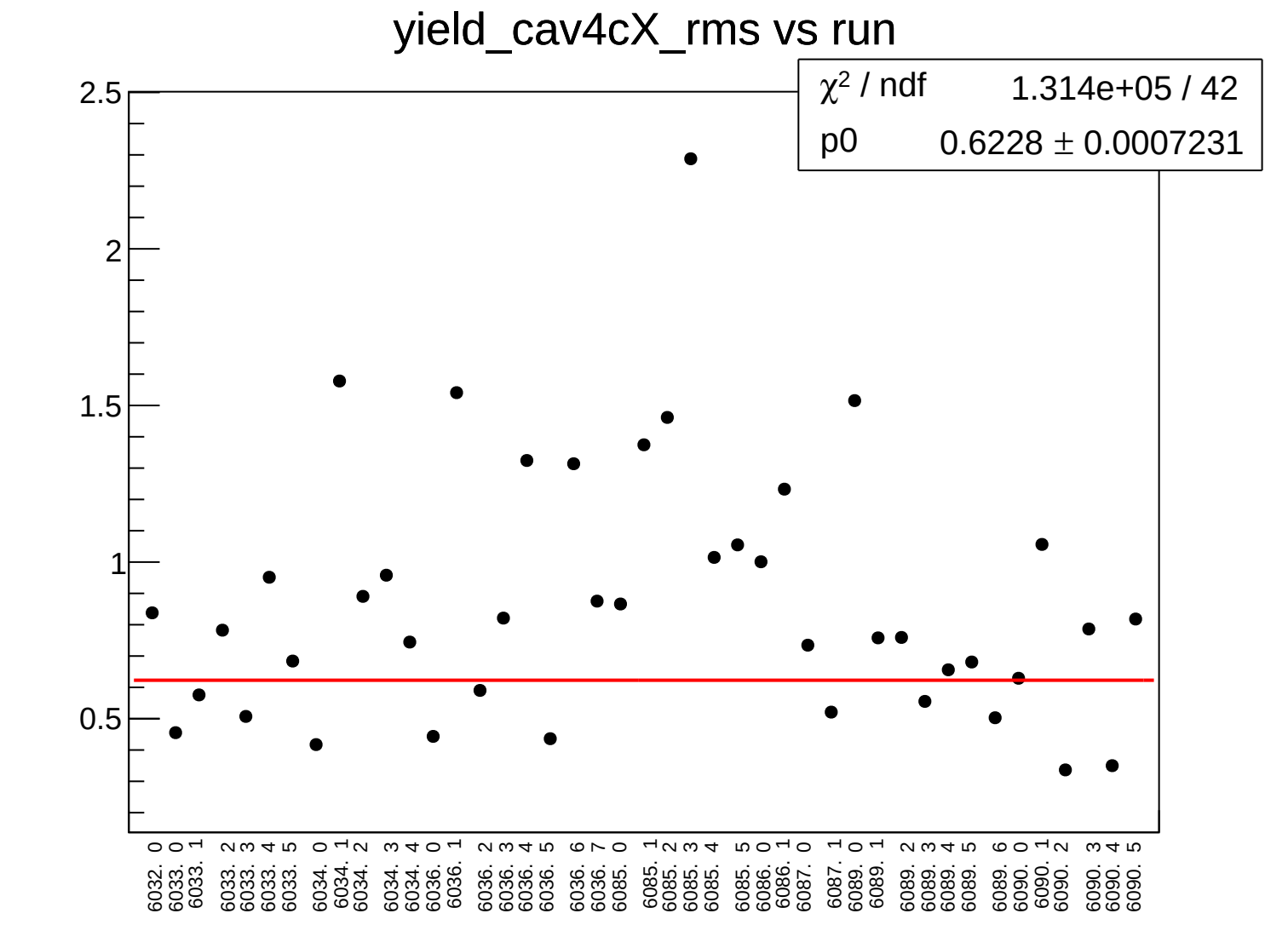

yield_cav4bX_mean vs run
χ² / ndf 1.262e+05 / 42
p0 −25.63 ± 0.003912
−22
−23
−24
−25
−26
−27
−28
−29
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −17.31
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.2357
Std Dev 3.218
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

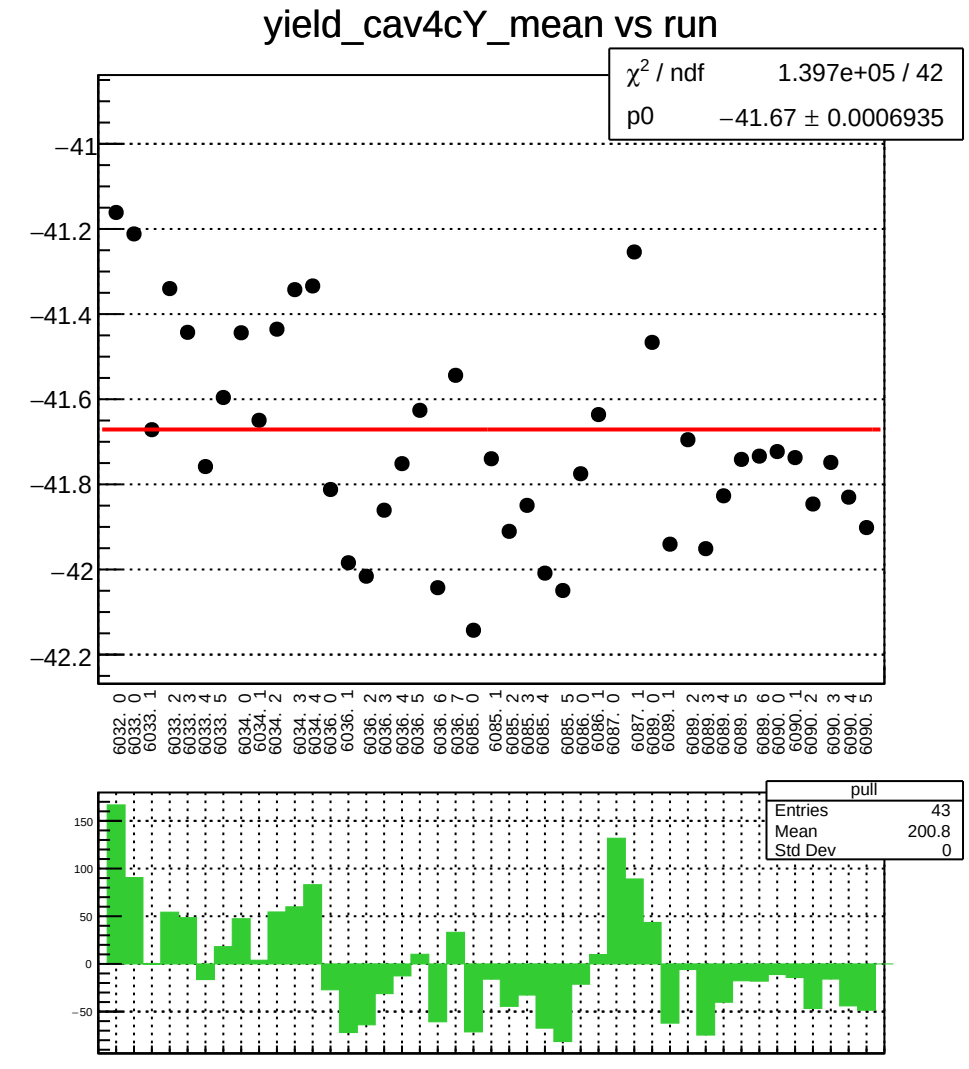

yield_cav4bX_rms vs run
χ^2 / ndf 5.717e+04 / 42
p0 2.499 ± 0.002766
5.5
5
4.5
4
3.5
3
2.5
2
1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

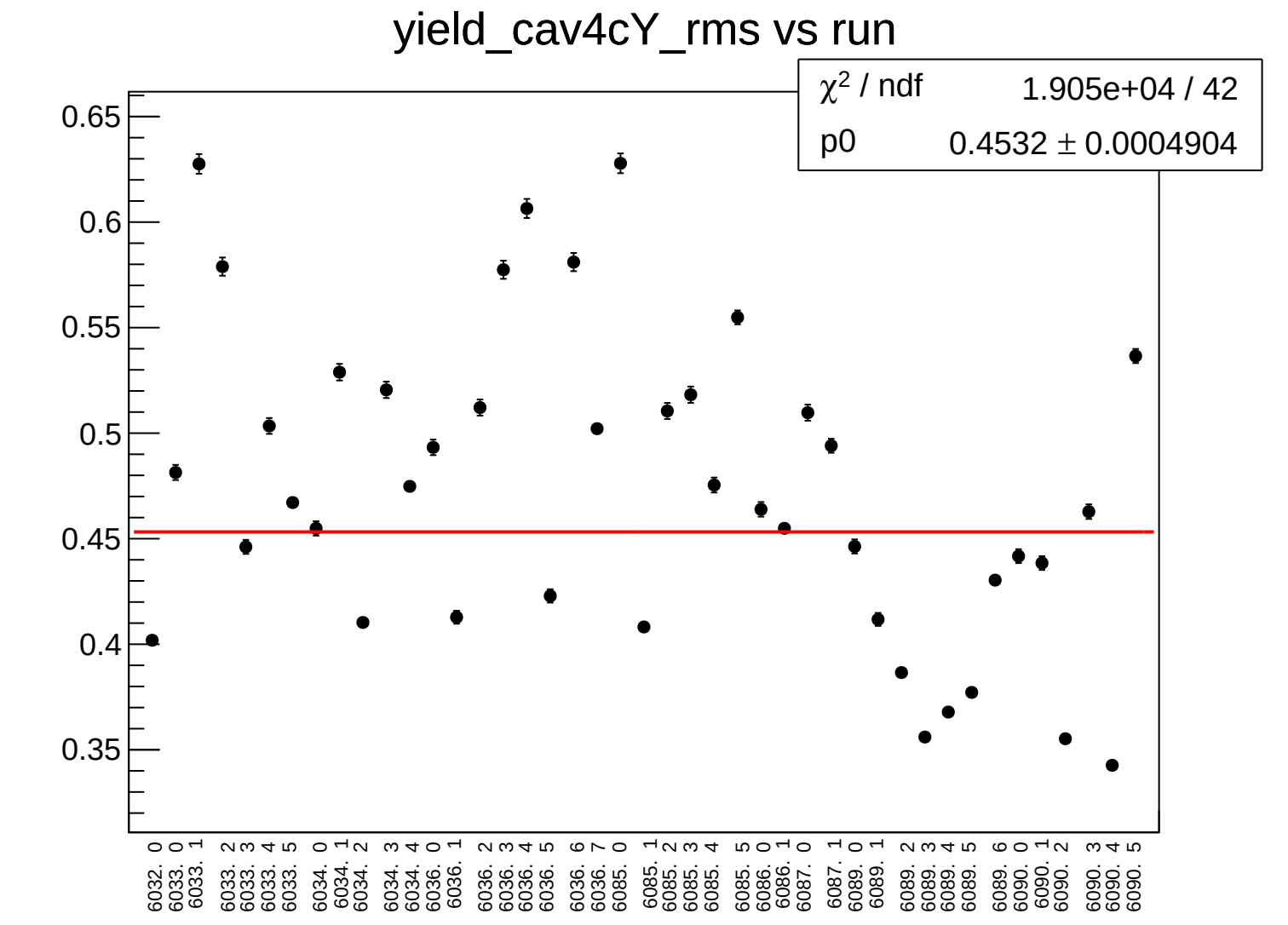

yield_cav4bY_mean vs run
χ² / ndf 2.766e+05 / 42
p0 −59.02 ± 0.001988
−56
−57
−58
−59
−60
−61
−62
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 48.91
Std Dev 0
300
200
100
0
−100
pull1D
Entries 43
Mean 1.276
Std Dev 3.795
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

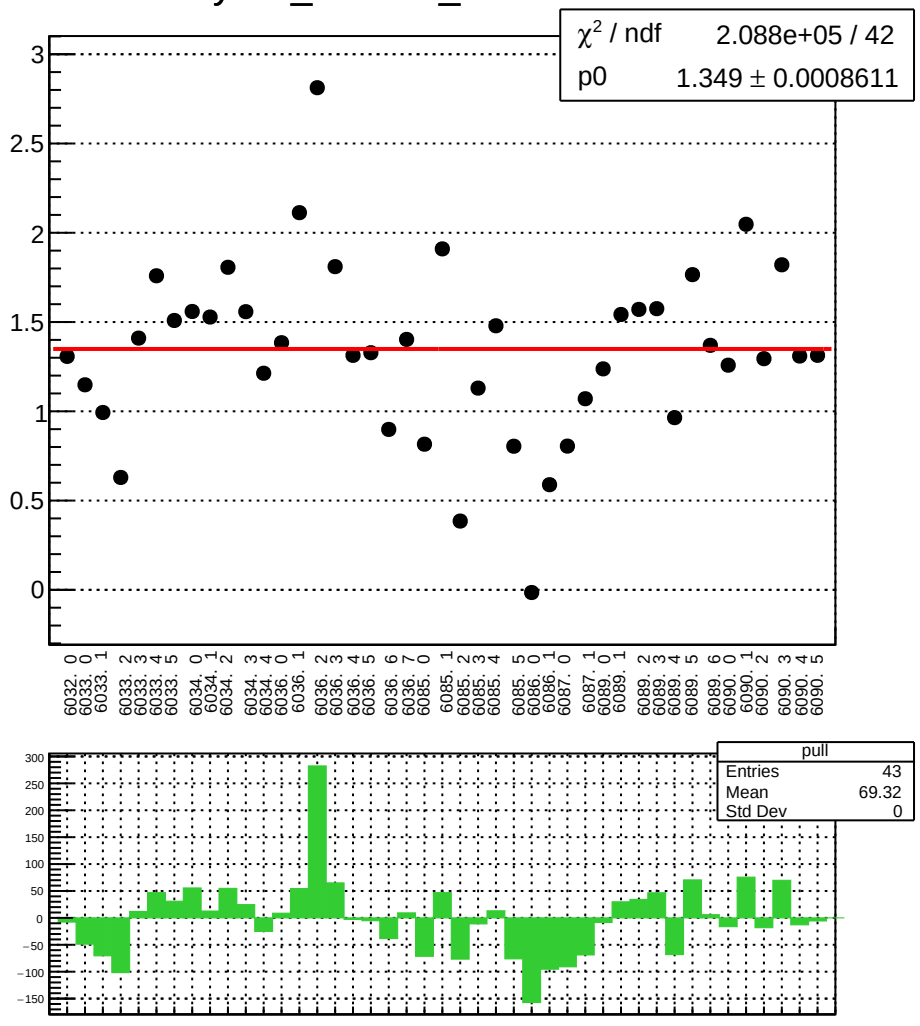

yield_cav4bY_rms vs run
χ² / ndf 1.398e+05 / 42
p0 1.204 ± 0.001406
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

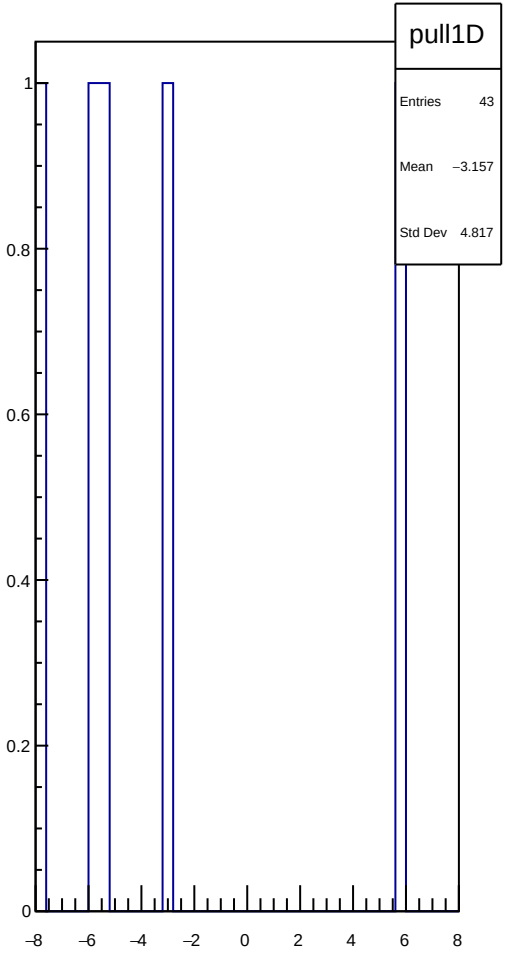

yield_cav4cX_mean vs run
χ² / ndf 1.968e+05 / 42
p0 1.009 ± 0.001023
pull
Entries 43
Mean −64
Std Dev 0
pull1D
Entries 43
Mean −1.608
Std Dev 2.987

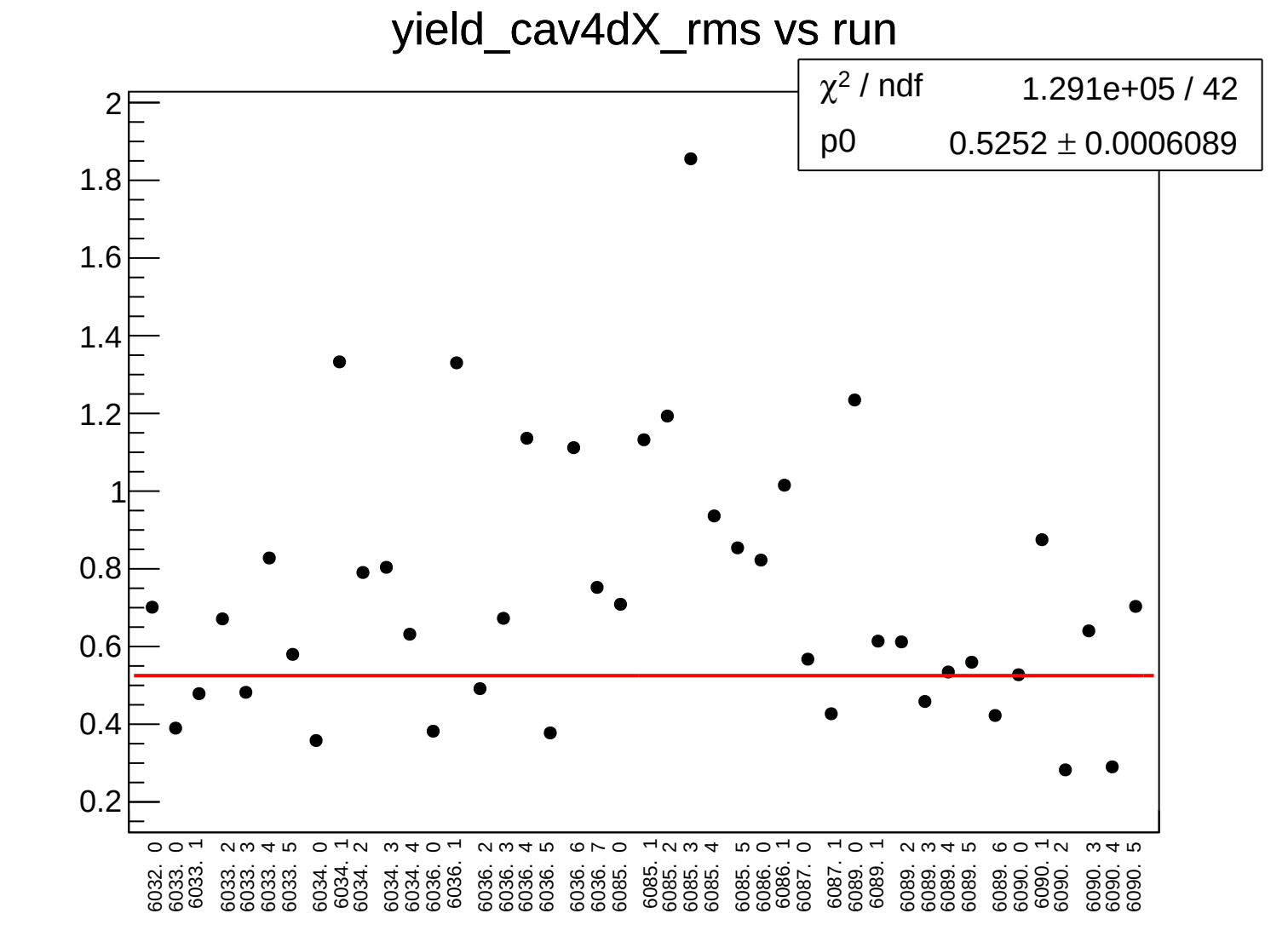

yield_cav4cX_rms vs run
χ² / ndf 1.314e+05 / 42
p0 0.6228 ± 0.0007231
2.5
2
1.5
1
0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

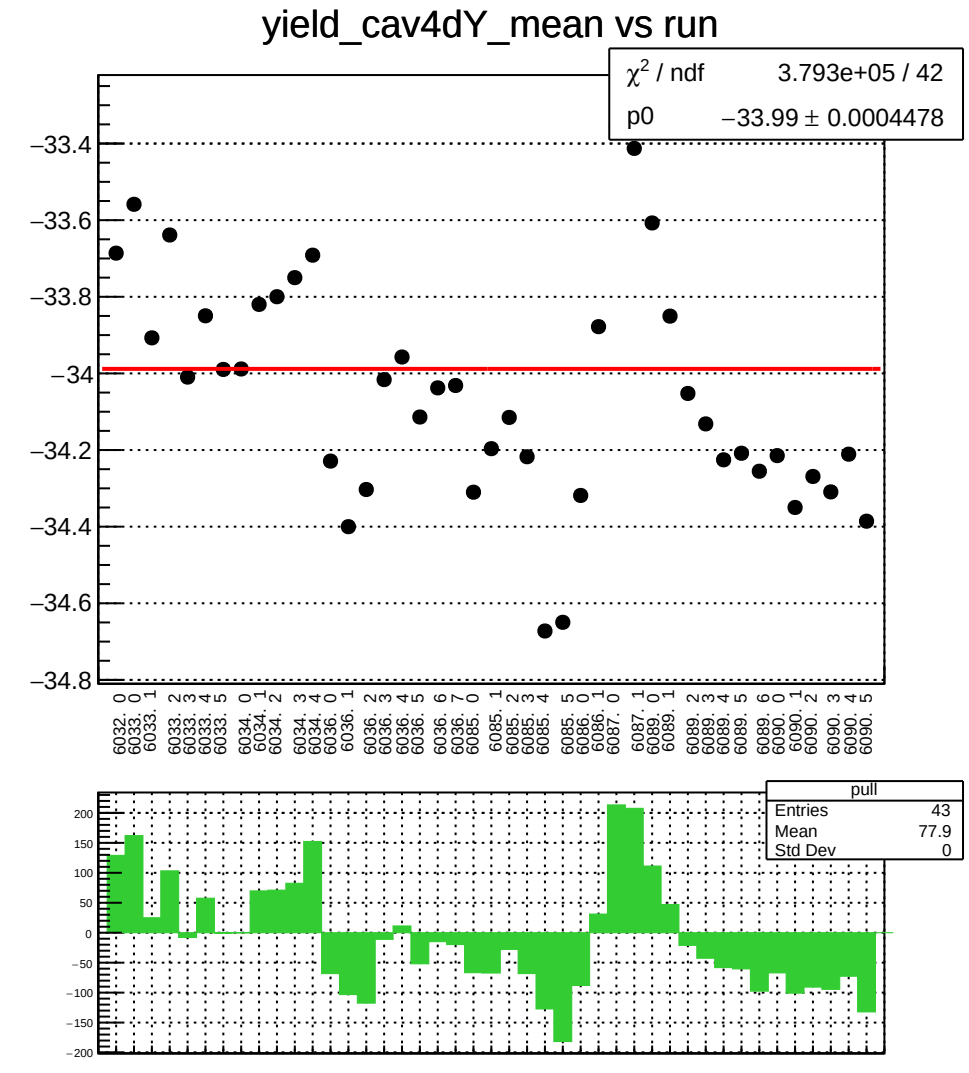

yield_cav4cY_mean vs run
χ² / ndf 1.397e+05 / 42
p0 −41.67 ± 0.0006935
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 200.8
Std Dev 0
150
100
50
0
−50
pull1D
Entries 43
Mean −0.6978
Std Dev 4.013
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

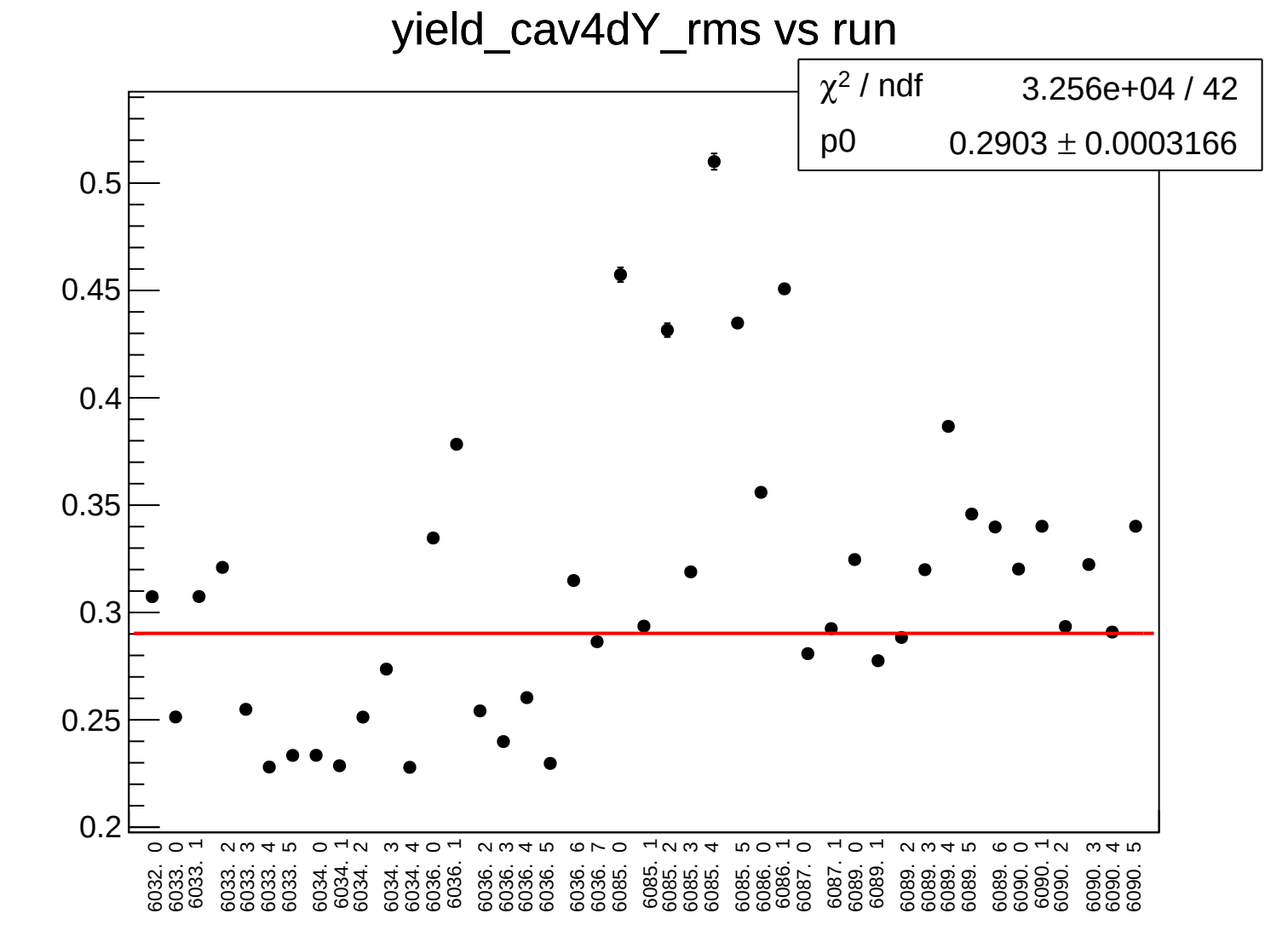

yield_cav4cY_rms vs run
χ² / ndf 1.905e+04 / 42
p0 0.4532 ± 0.0004904
0.65
0.6
0.55
0.5
0.45
0.4
0.35
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

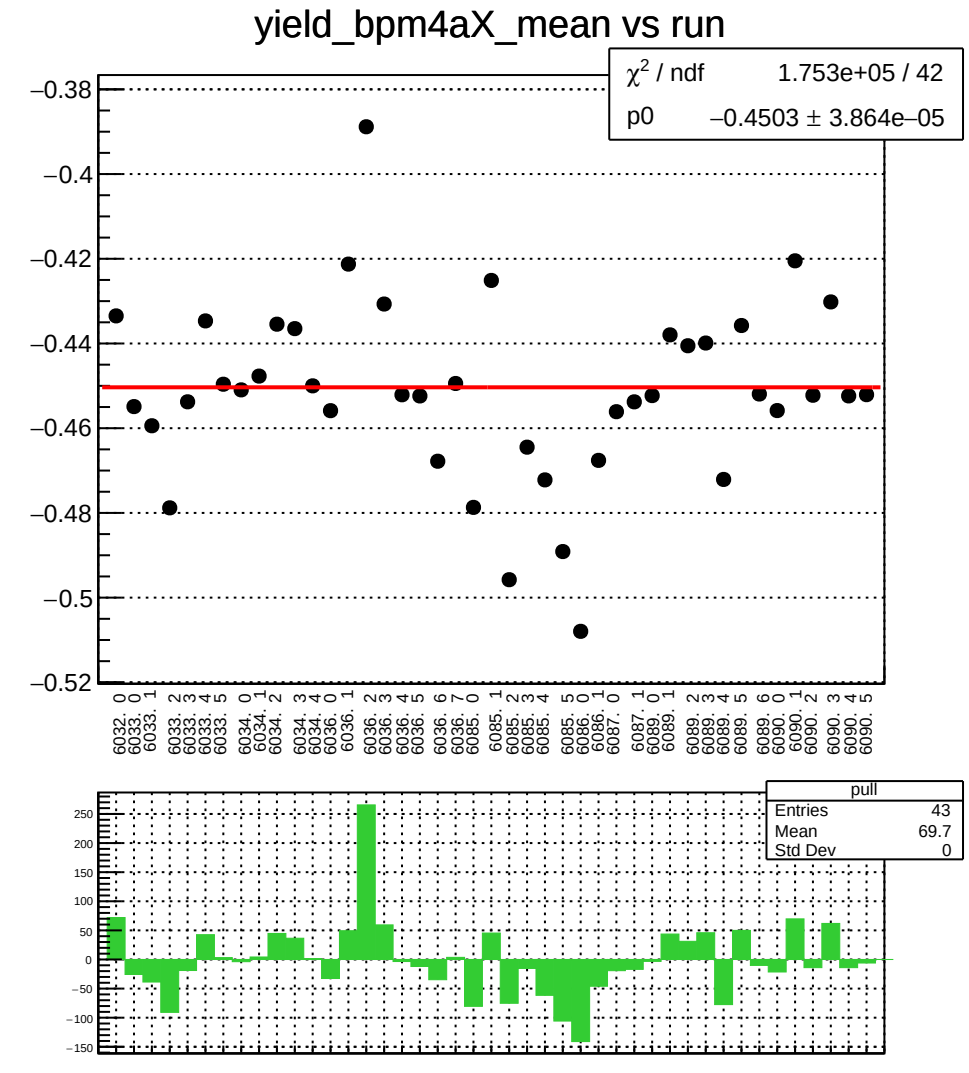

yield_cav4dX_mean vs run
χ² / ndf 2.088e+05 / 42
p0 1.349 ± 0.0008611
pull
Entries 43
Mean 69.32
Std Dev 0

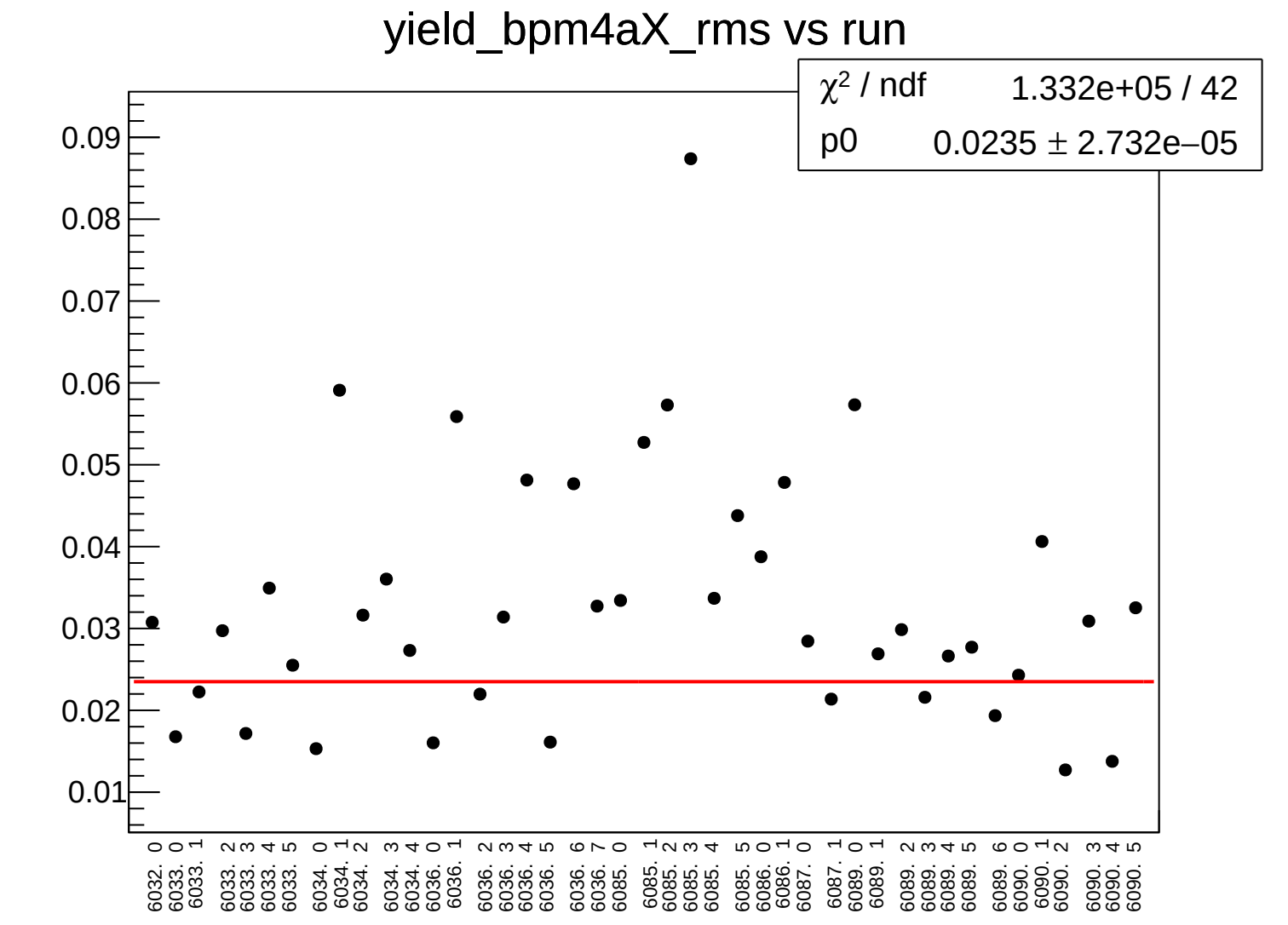

pull1D
Entries 43
Mean −3.157
Std Dev 4.817

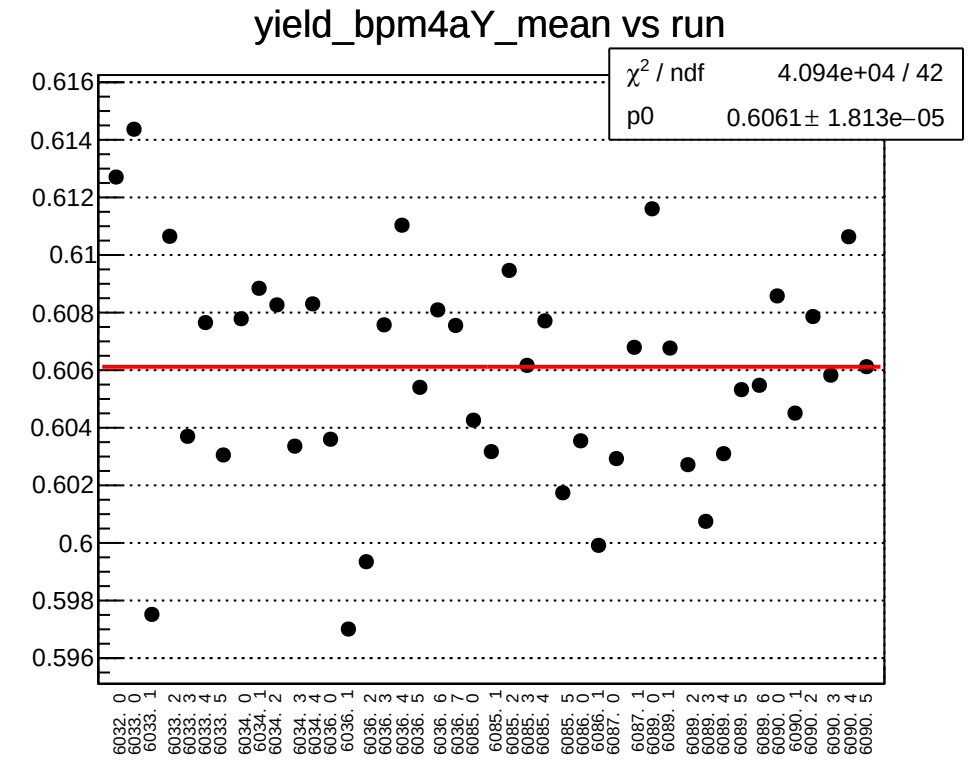

yield_cav4dX_rms vs run
χ² / ndf 1.291e+05 / 42
p0 0.5252 ± 0.0006089
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

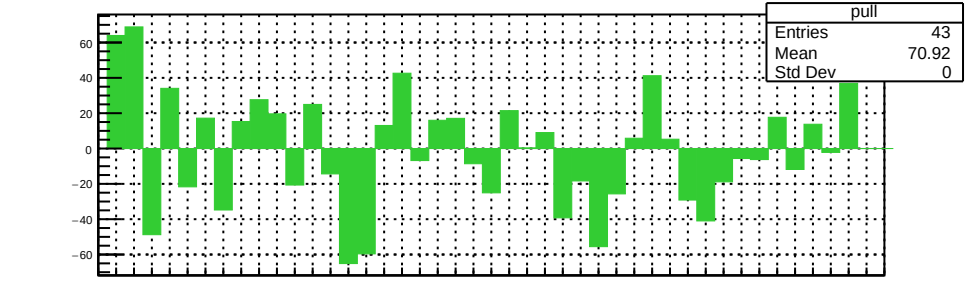

yield_cav4dY_mean vs run
χ² / ndf 3.793e+05 / 42
p0 −33.99 ± 0.0004478
−33.4
−33.6
−33.8
−34
−34.2
−34.4
−34.6
−34.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 77.9
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean −2.94
Std Dev 3.577
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

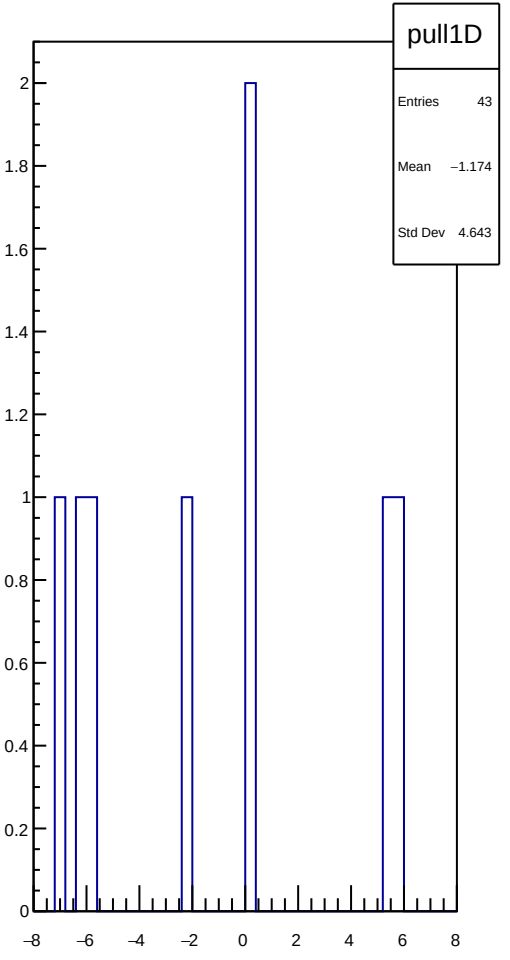

yield_cav4dY_rms vs run
χ² / ndf 3.256e+04 / 42
p0 0.2903 ± 0.0003166
0.5
0.45
0.4
0.35
0.3
0.25
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

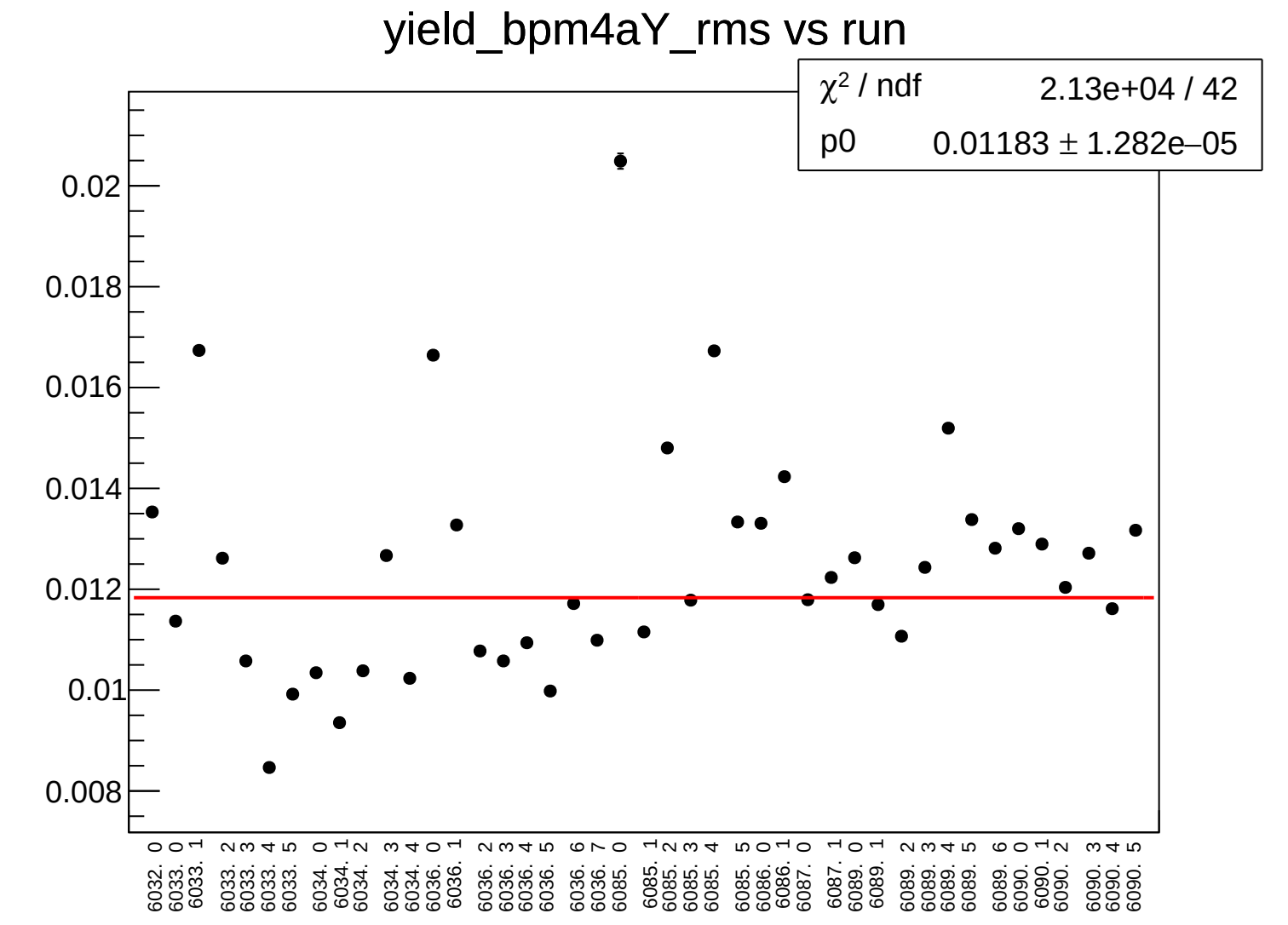

yield_bpm4aX_mean vs run
χ² / ndf 1.753e+05 / 42
p0 −0.4503 ± 3.864e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 69.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −0.4916
Std Dev 3.784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

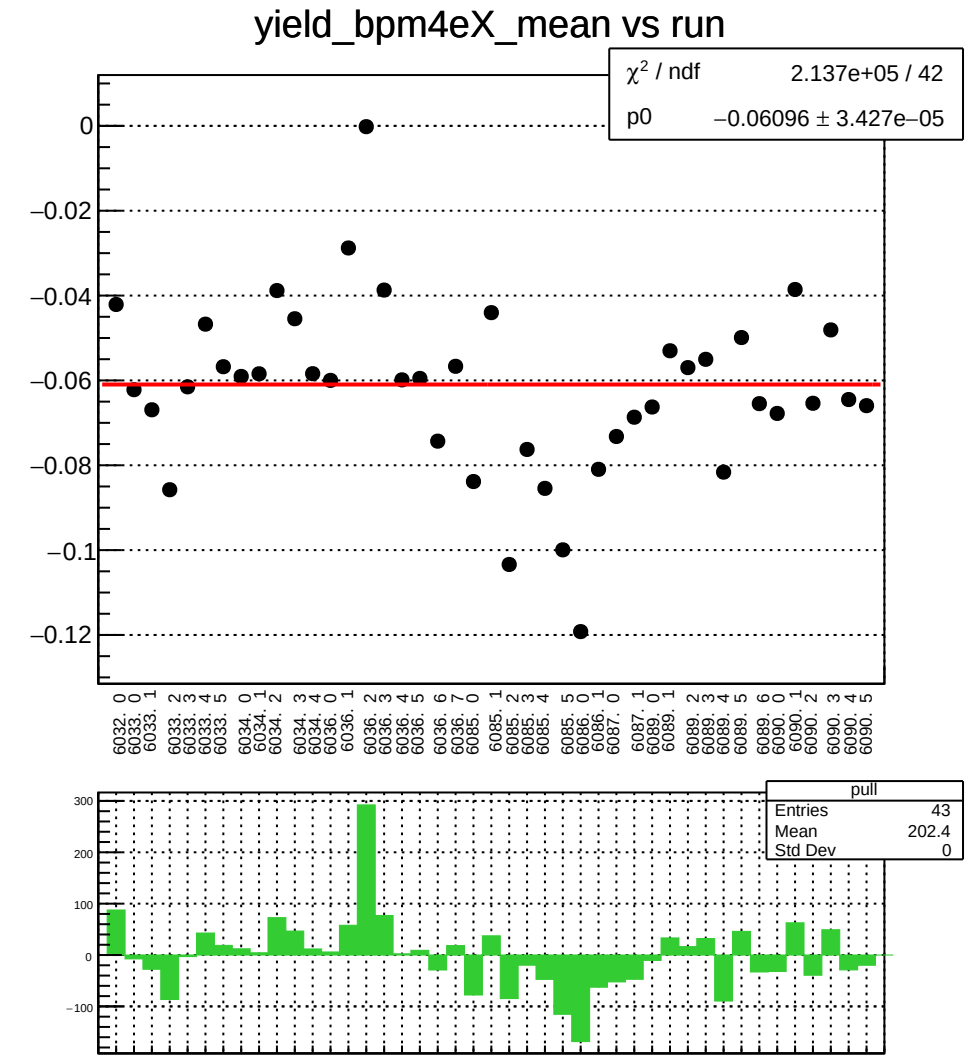

yield_bpm4aX_rms vs run
χ² / ndf 1.332e+05 / 42
p0 0.0235 ± 2.732e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

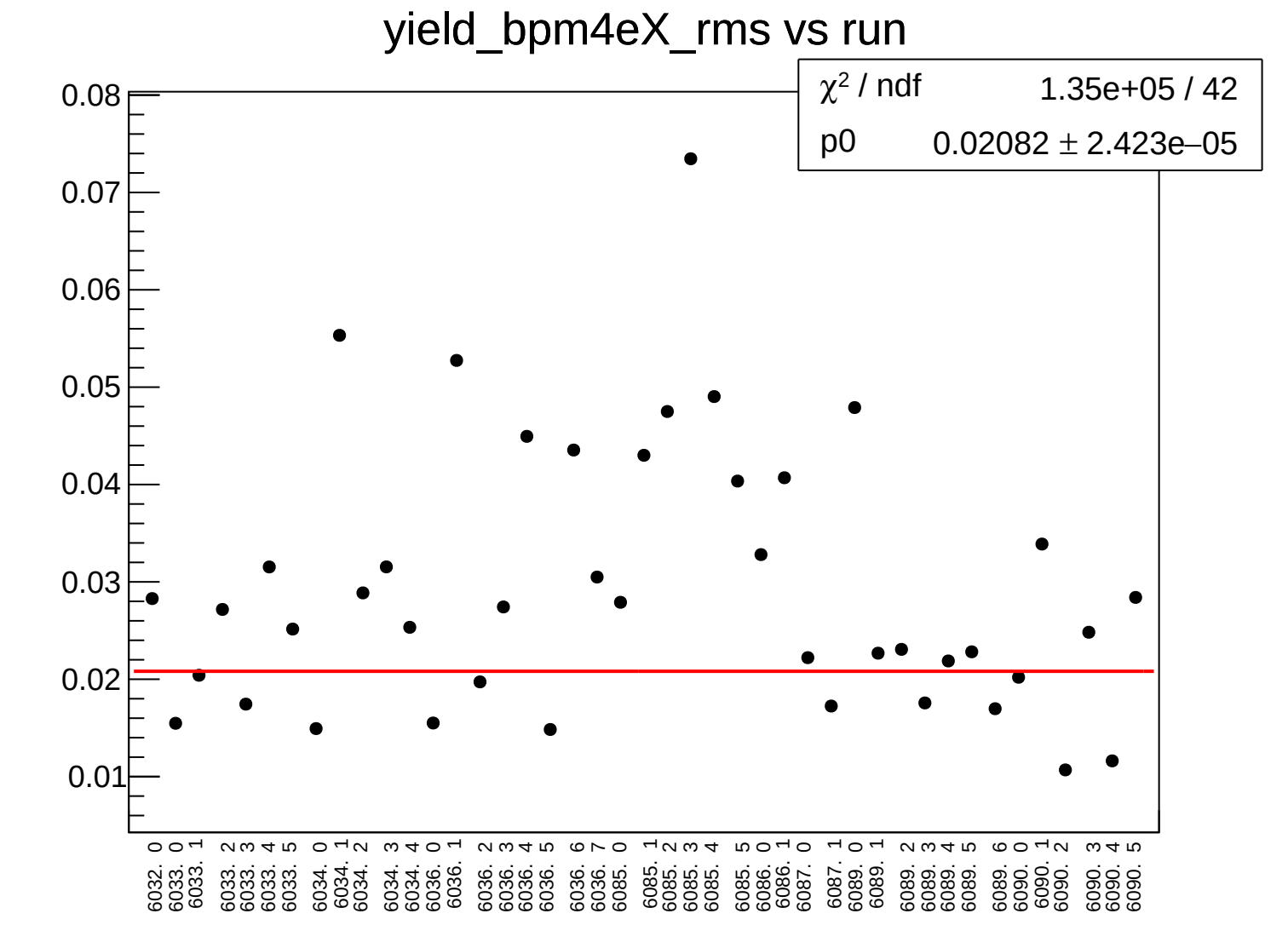

yield_bpm4aY_mean vs run
χ² / ndf 4.094e+04 / 42
p0 0.6061 ± 1.813e−05
0.616
0.614
0.612
0.61
0.608
0.606
0.604
0.602
0.6
0.598
0.596
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

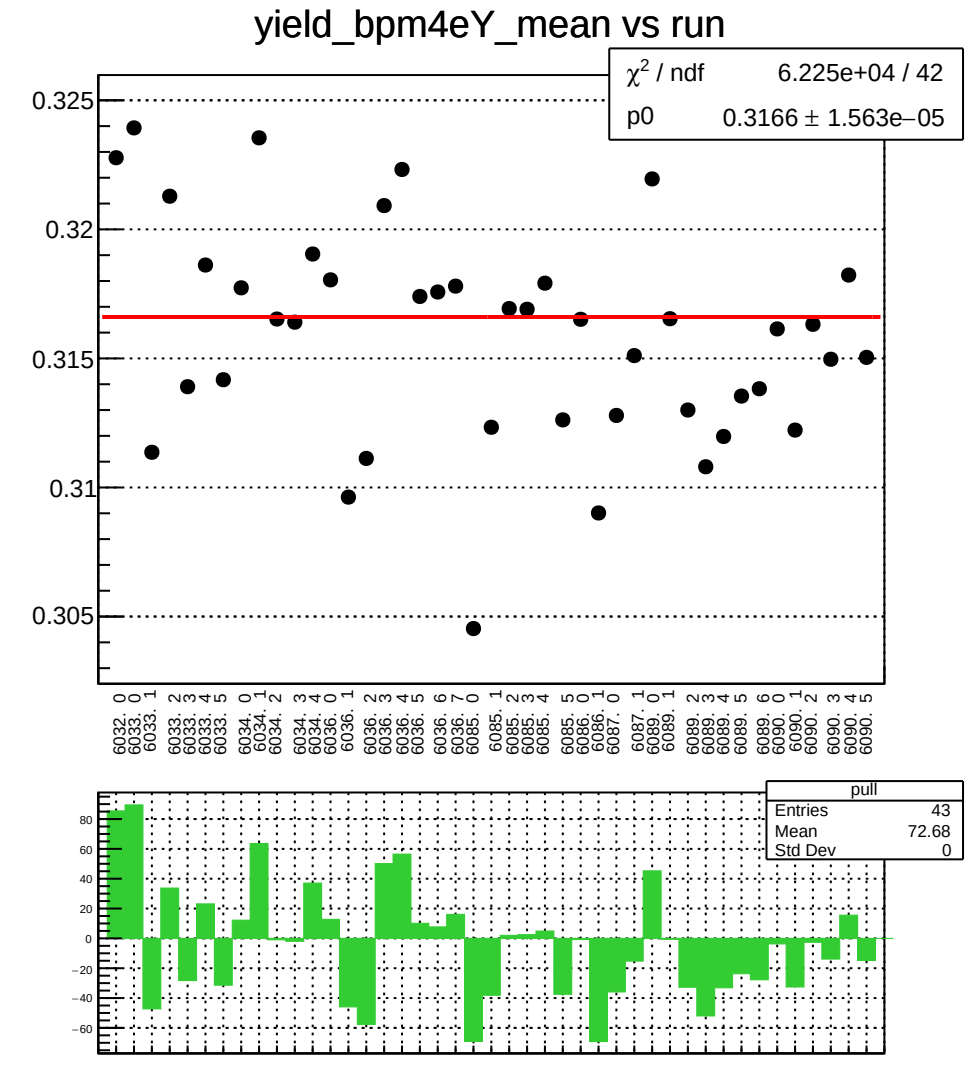

pull
Entries 43
Mean 70.92
Std Dev 0
60
40
20
0
−20
−40
−60

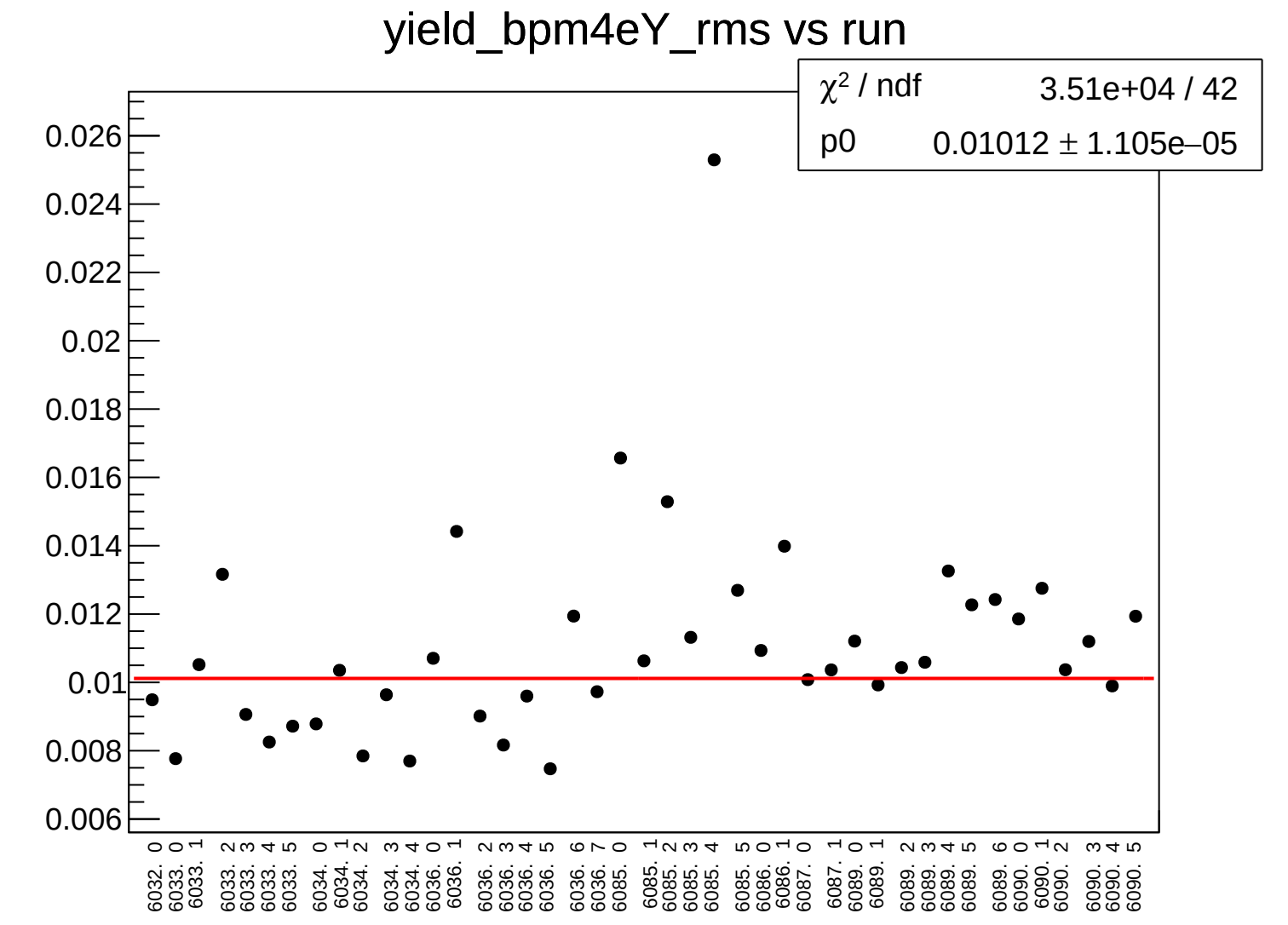

pull1D
Entries 43
Mean −1.174
Std Dev 4.643
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

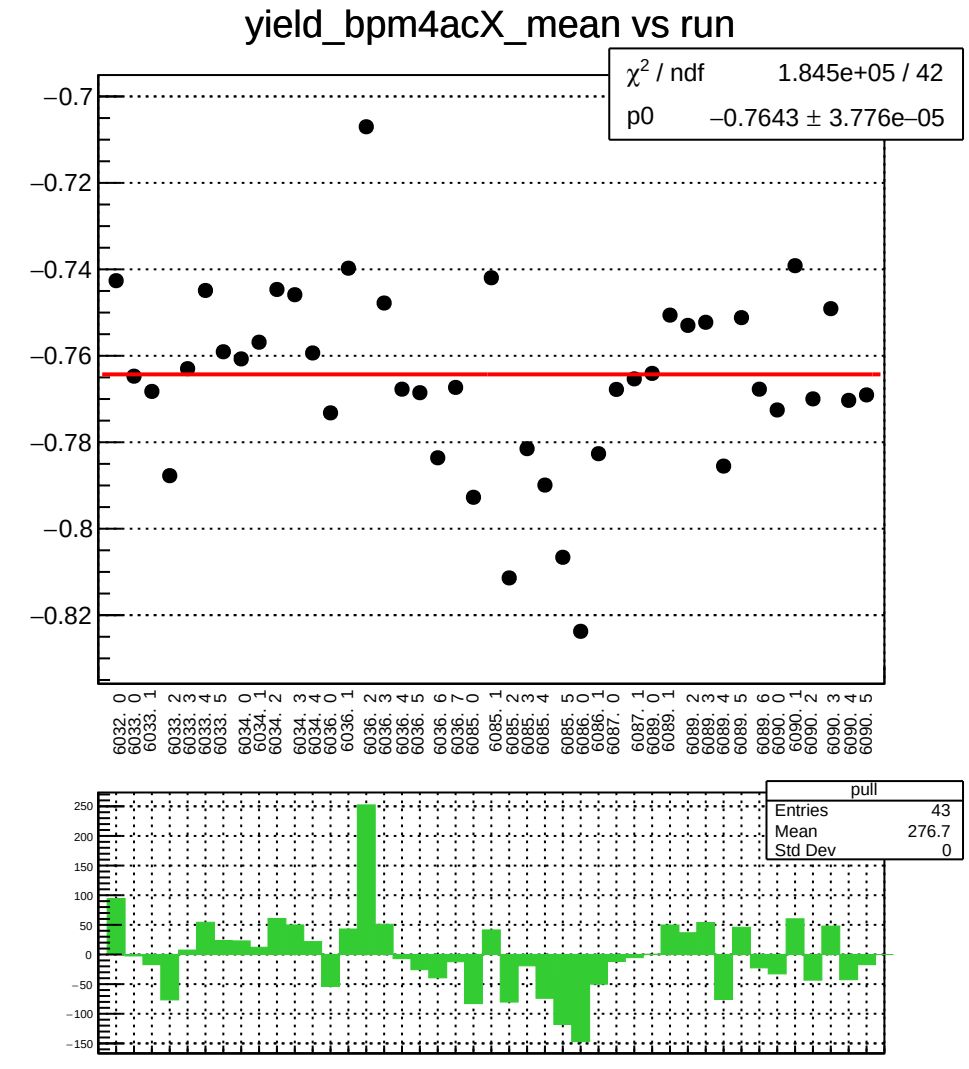

yield_bpm4aY_rms vs run
χ² / ndf 2.13e+04 / 42
p0 0.01183 ± 1.282e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

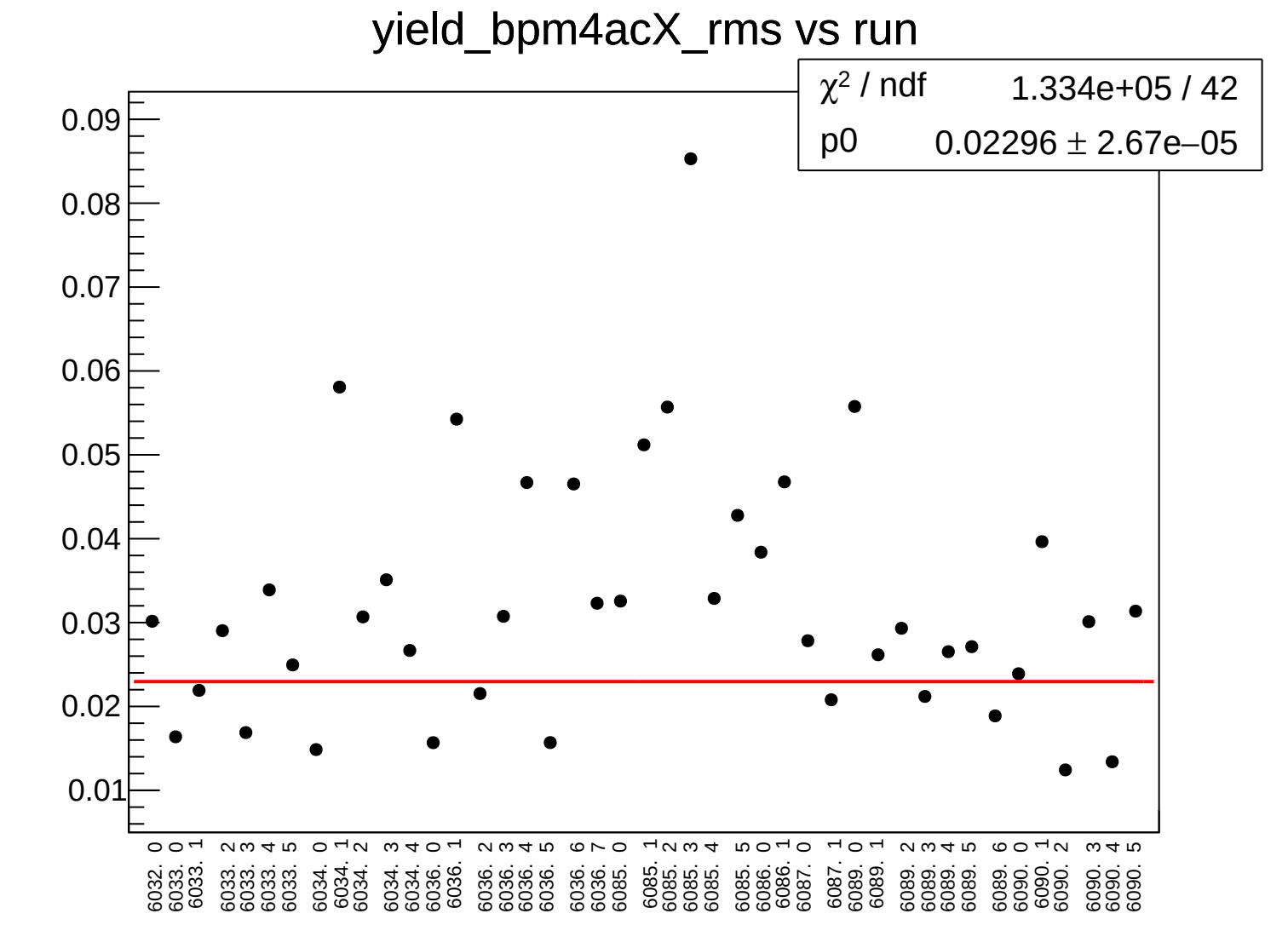

yield_bpm4eX_mean vs run
χ² / ndf 2.137e+05 / 42
p0 −0.06096 ± 3.427e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 202.4
Std Dev 0
300
200
100
0
−100
pull1D
Entries 43
Mean 0.4135
Std Dev 4.968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

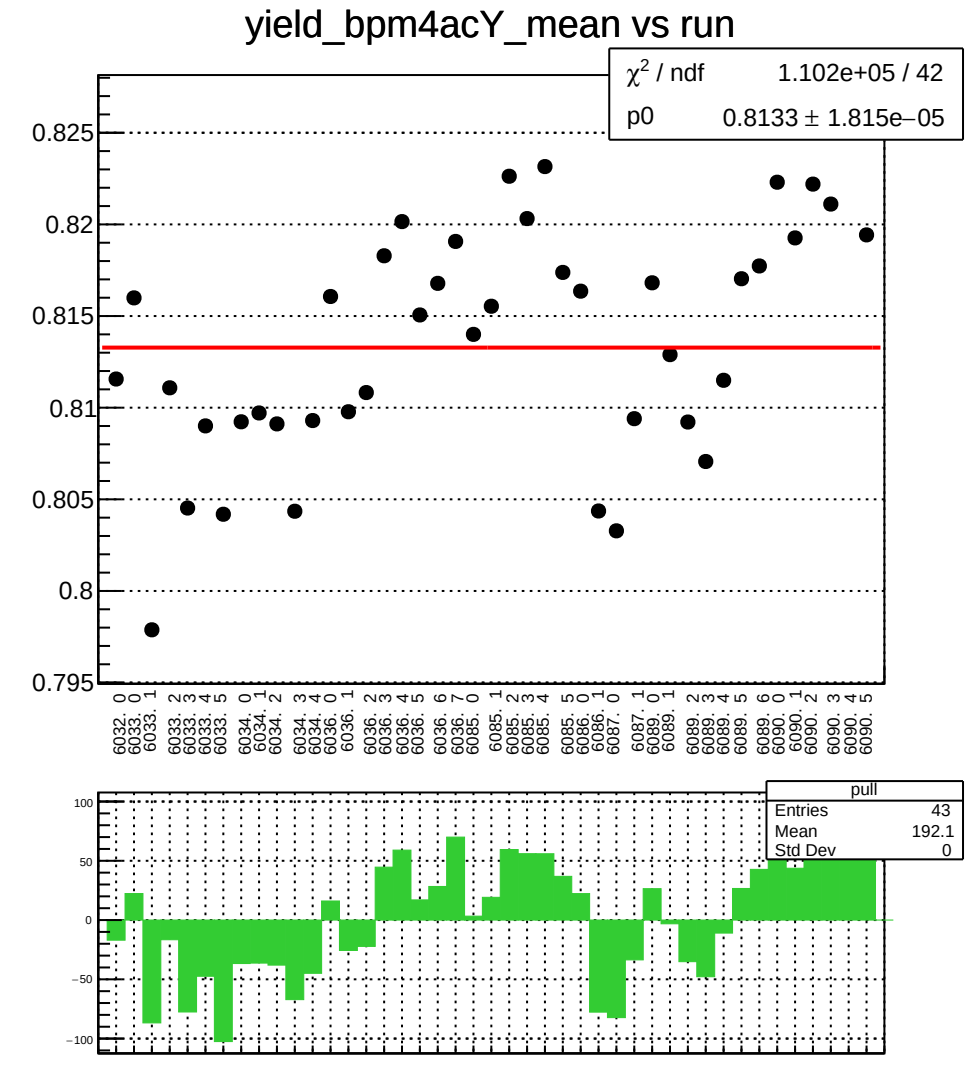

yield_bpm4eX_rms vs run
χ² / ndf 1.35e+05 / 42
p0 0.02082 ± 2.423e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

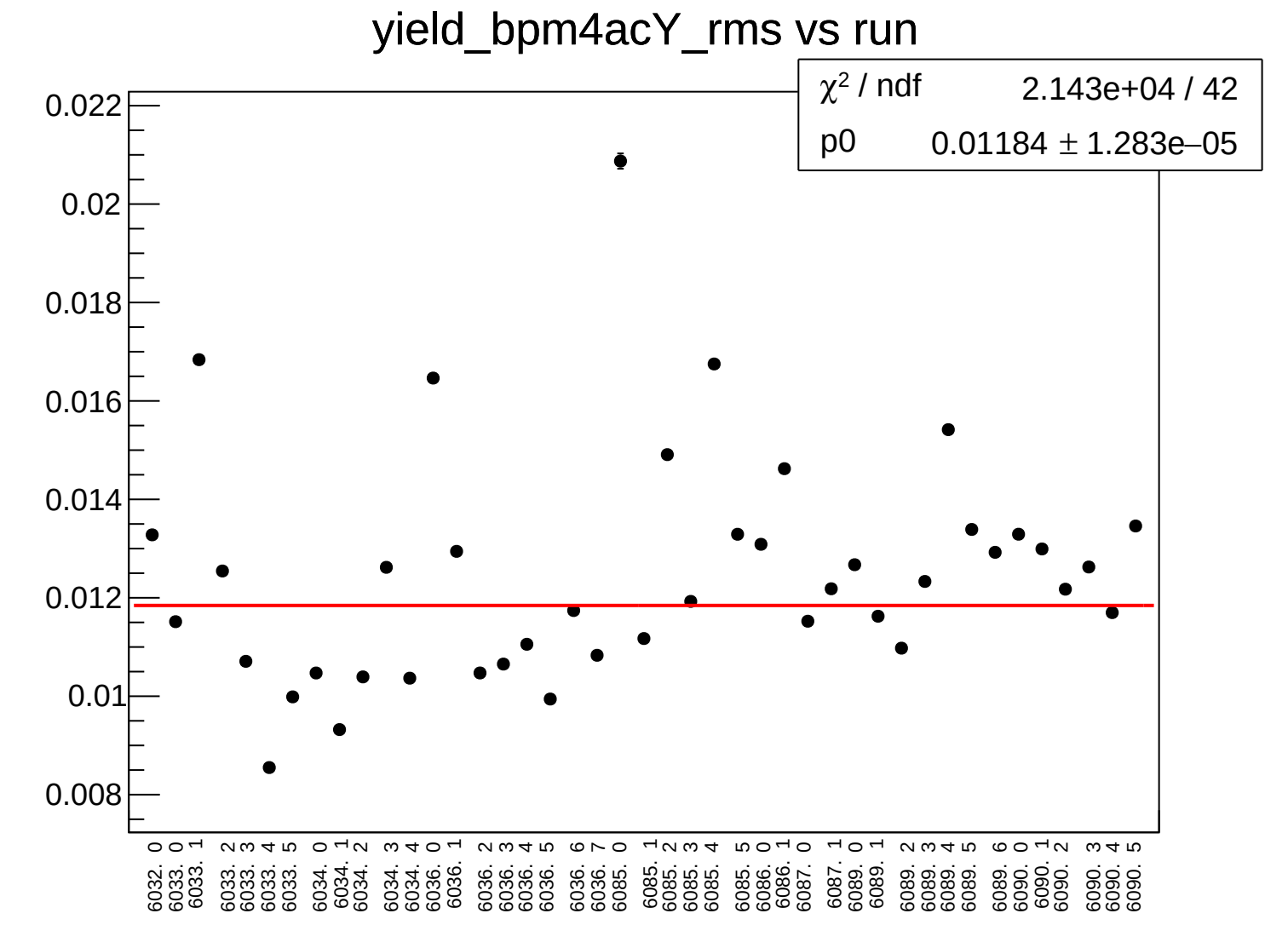

yield_bpm4eY_mean vs run
χ² / ndf 6.225e+04 / 42
p0 0.3166 ± 1.563e−05
0.325
0.32
0.315
0.31
0.305
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 72.68
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean 0.6496
Std Dev 3.401
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 3.51e+04 / 42
p0 0.01012 ± 1.105e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


yield_bpm4acX_mean vs run
χ² / ndf 1.845e+05 / 42
p0 −0.7643 ± 3.776e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 276.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −1.363
Std Dev 5.065
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 1.334e+05 / 42
p0 0.02296 ± 2.67e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


yield_bpm4acY_mean vs run
χ² / ndf 1.102e+05 / 42
p0 0.8133 ± 1.815e−05
0.825
0.82
0.815
0.81
0.805
0.8
0.795
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 192.1
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.07237
Std Dev 3.207
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 2.143e+04 / 42
p0 0.01184 ± 1.283e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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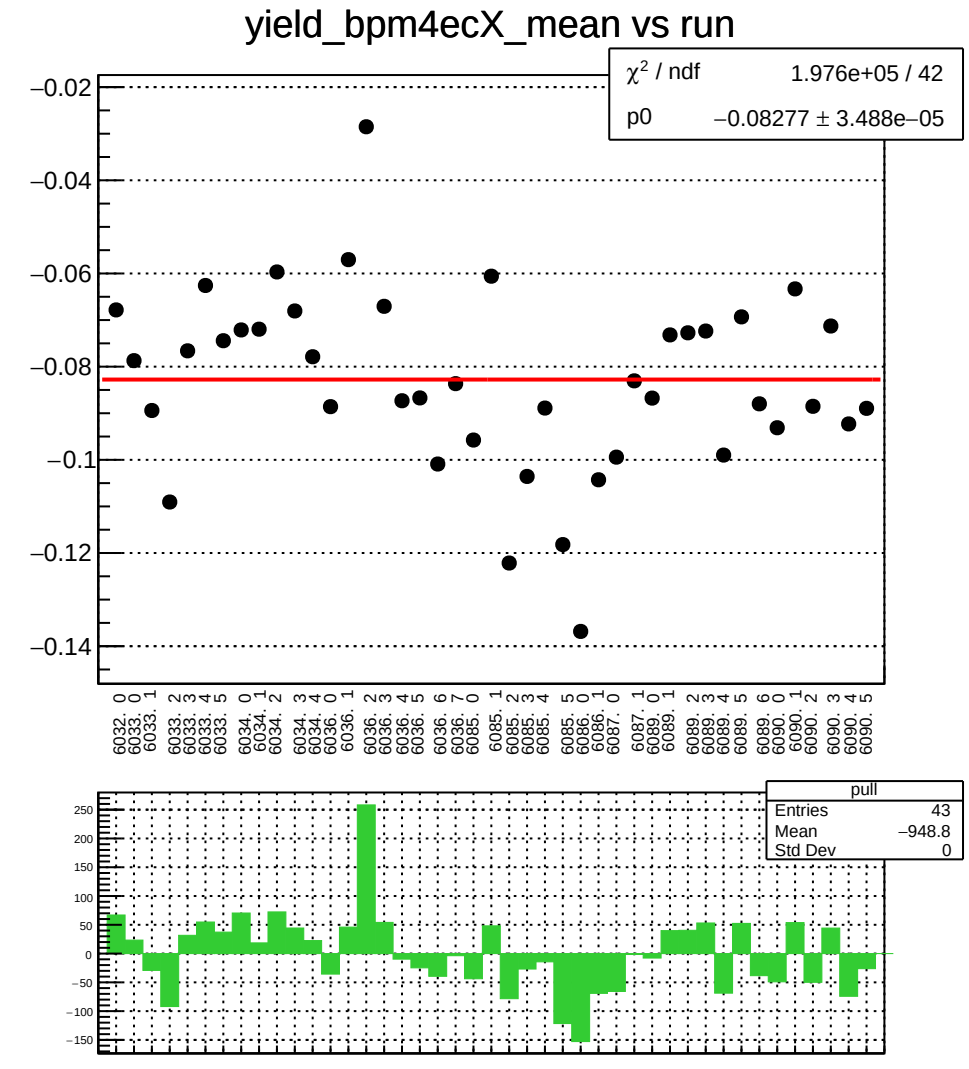
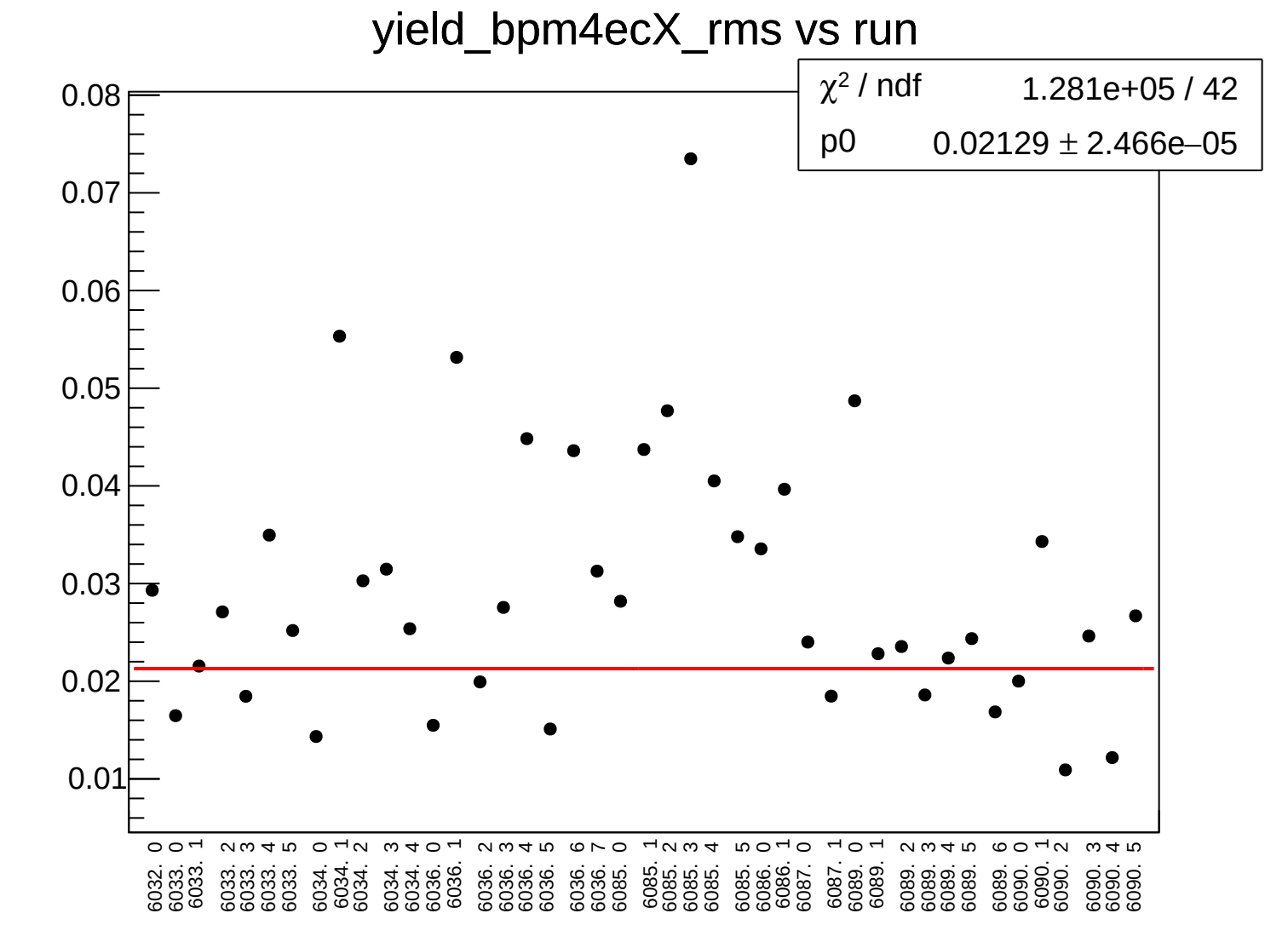
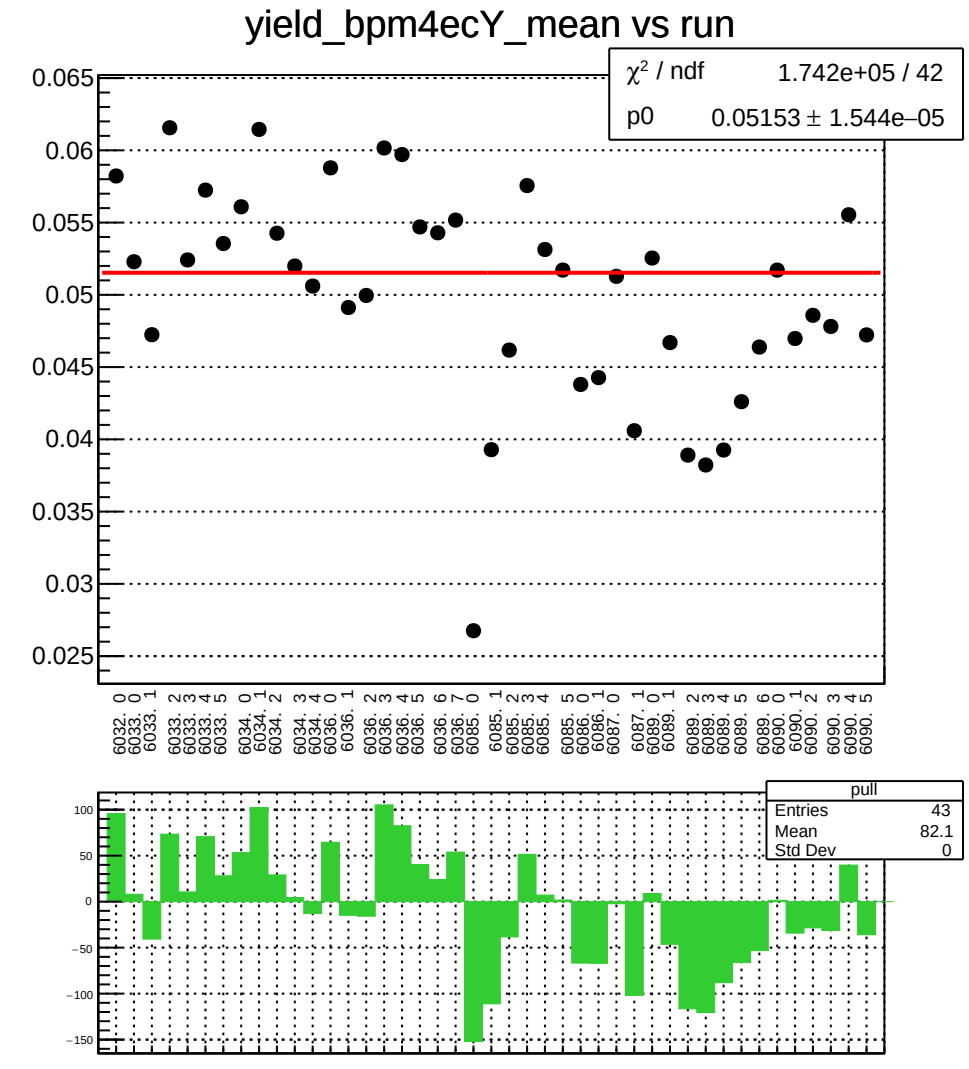
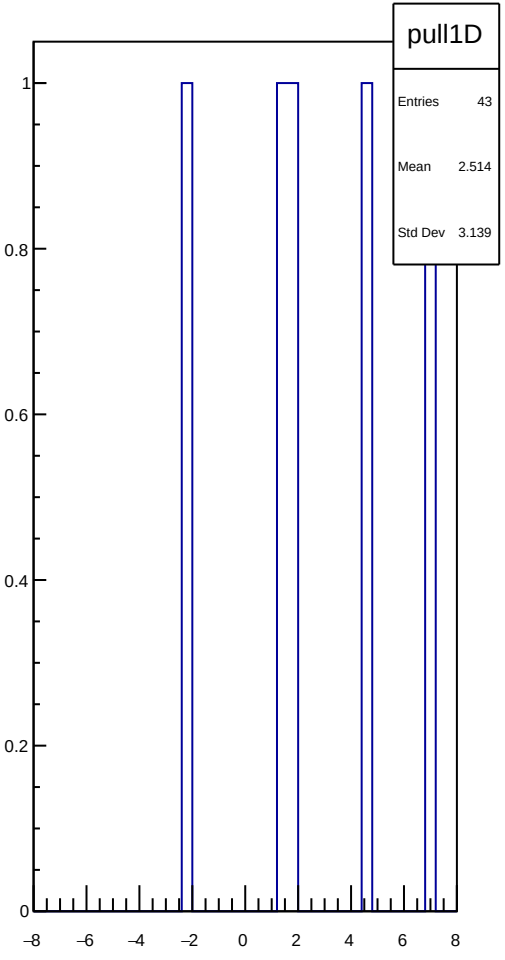
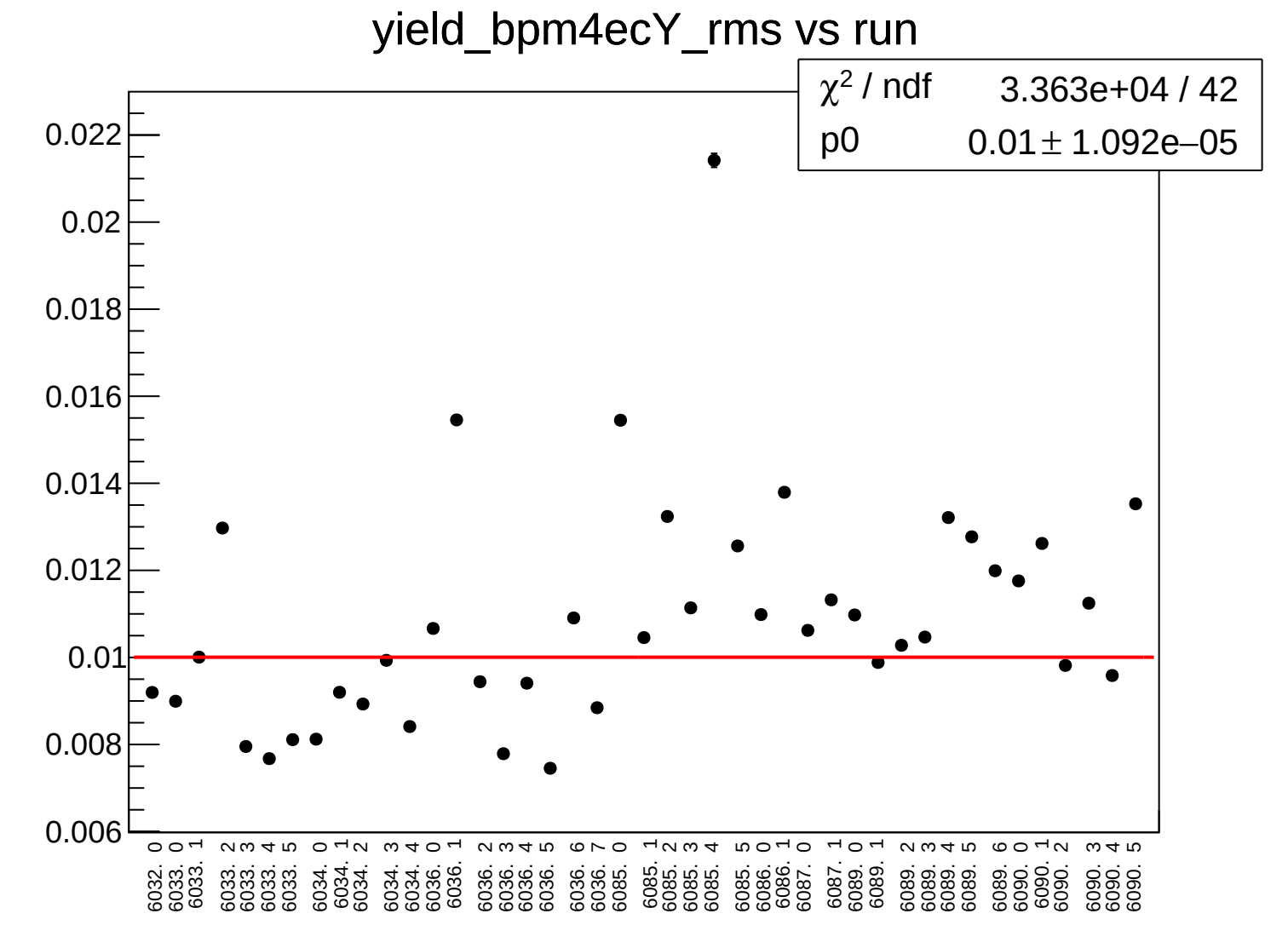
6090. 5

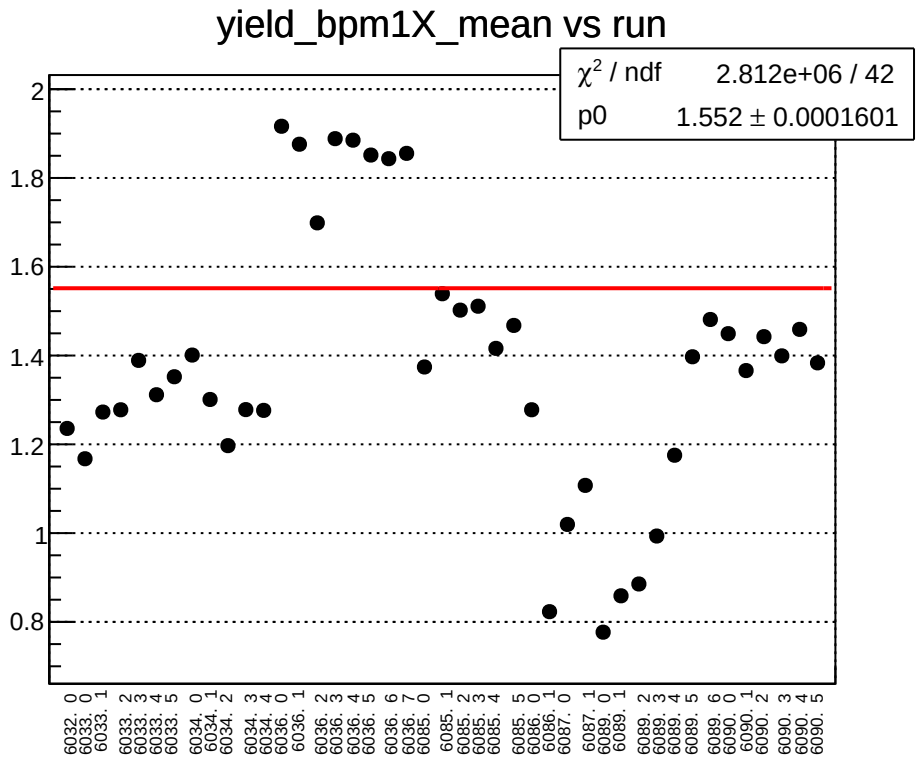

yield_bpm4ecX_mean vs run
χ² / ndf 1.976e+05 / 42
p0 −0.08277 ± 3.488e−05
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −948.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −4.334
Std Dev 2.566
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

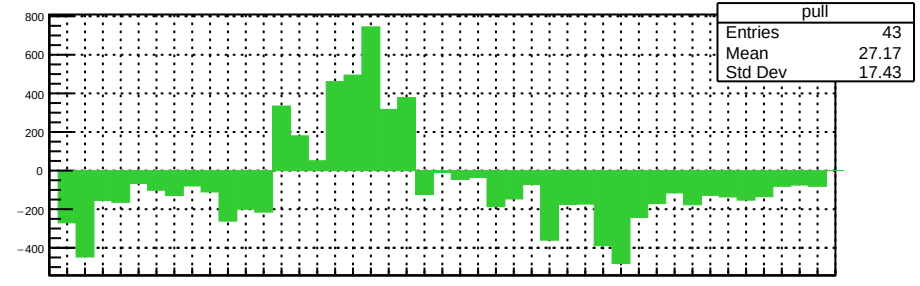

yield_bpm4ecX_rms vs run
χ² / ndf 1.281e+05 / 42
p0 0.02129 ± 2.466e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

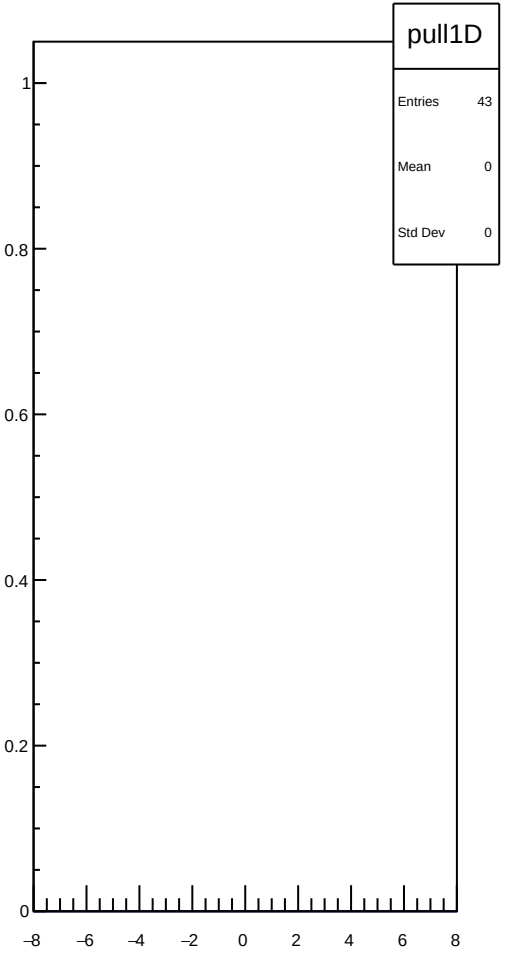

yield_bpm4ecY_mean vs run
χ² / ndf 1.742e+05 / 42
p0 0.05153 ± 1.544e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 82.1
Std Dev 0
100
50
0
−50
−100
−150

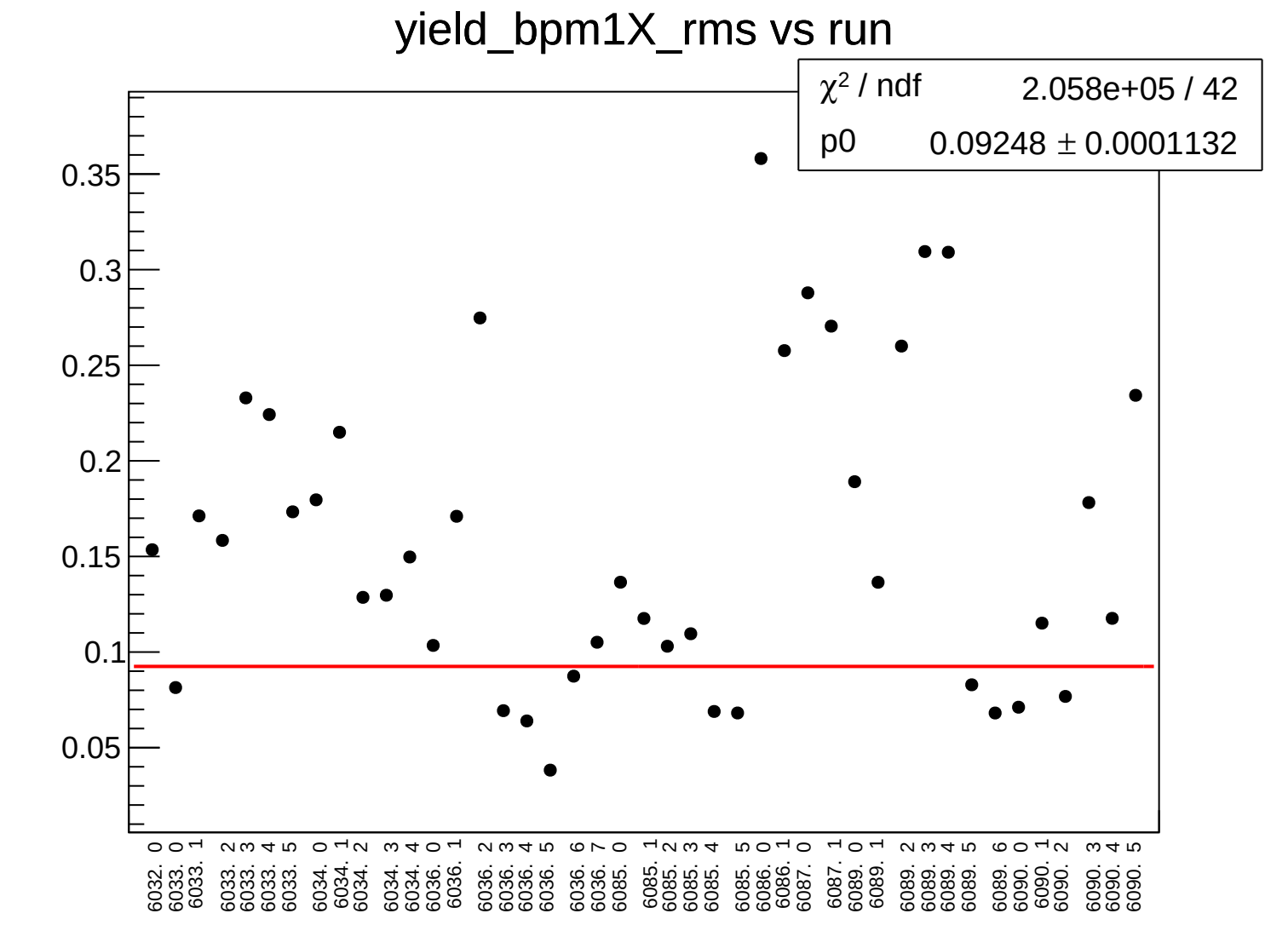

pull1D
Entries 43
Mean 2.514
Std Dev 3.139
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

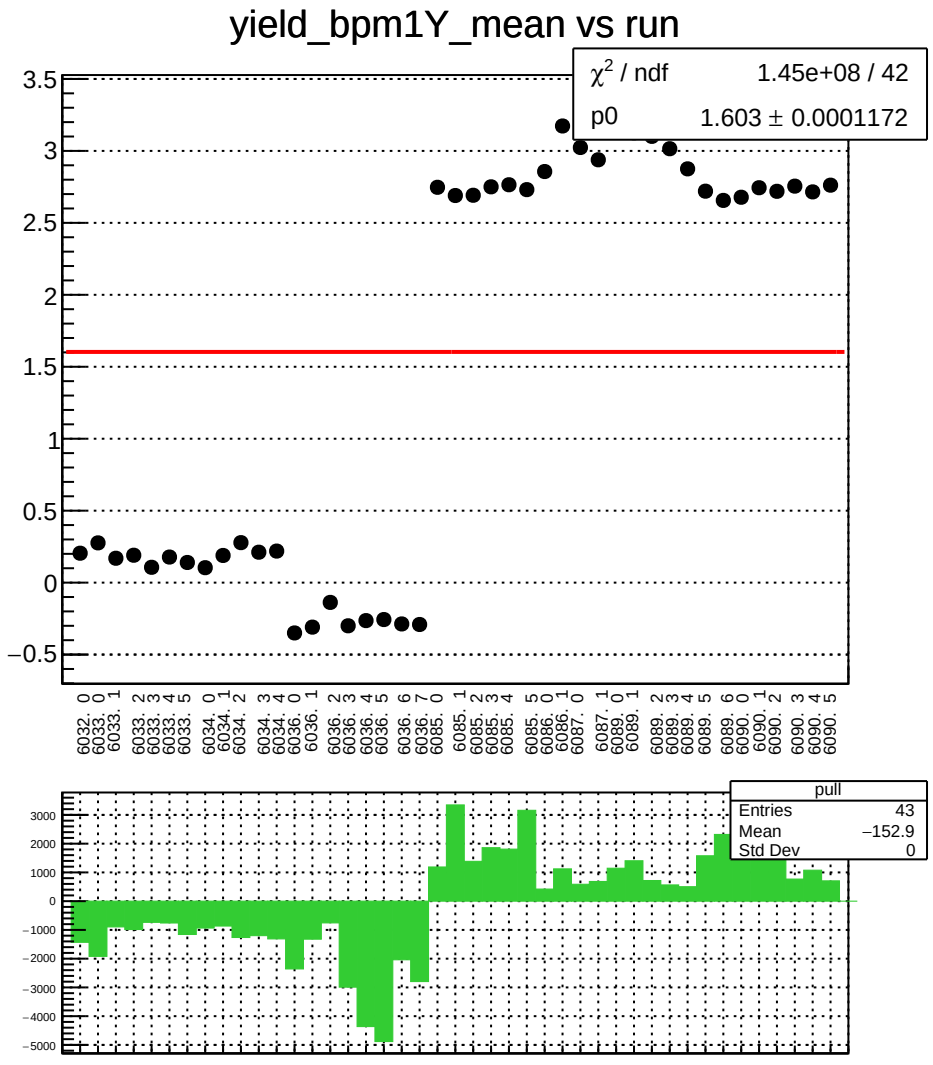

yield_bpm4ecY_rms vs run
χ² / ndf 3.363e+04 / 42
p0 0.01 ± 1.092e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

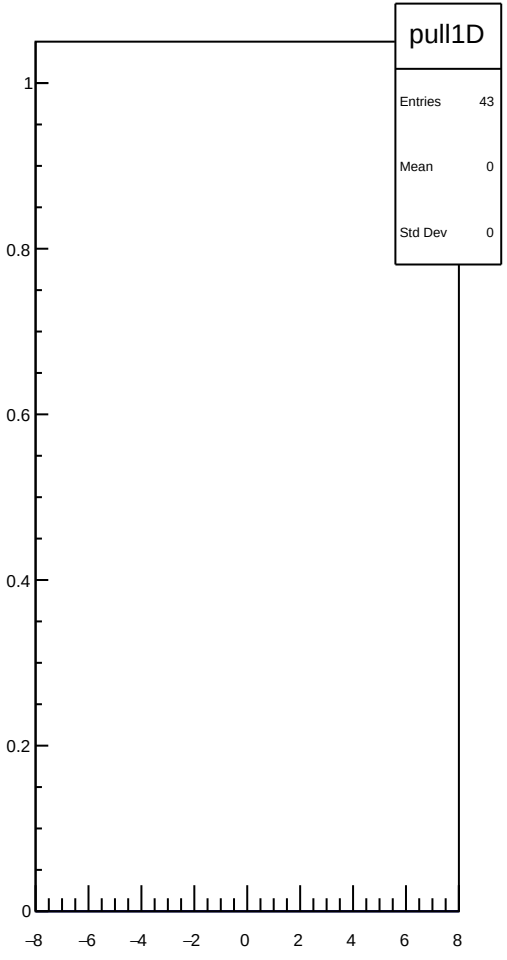

yield_bpm1X_mean vs run
χ² / ndf 2.812e+06 / 42
p0 1.552 ± 0.0001601
2
1.8
1.6
1.4
1.2
1
0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

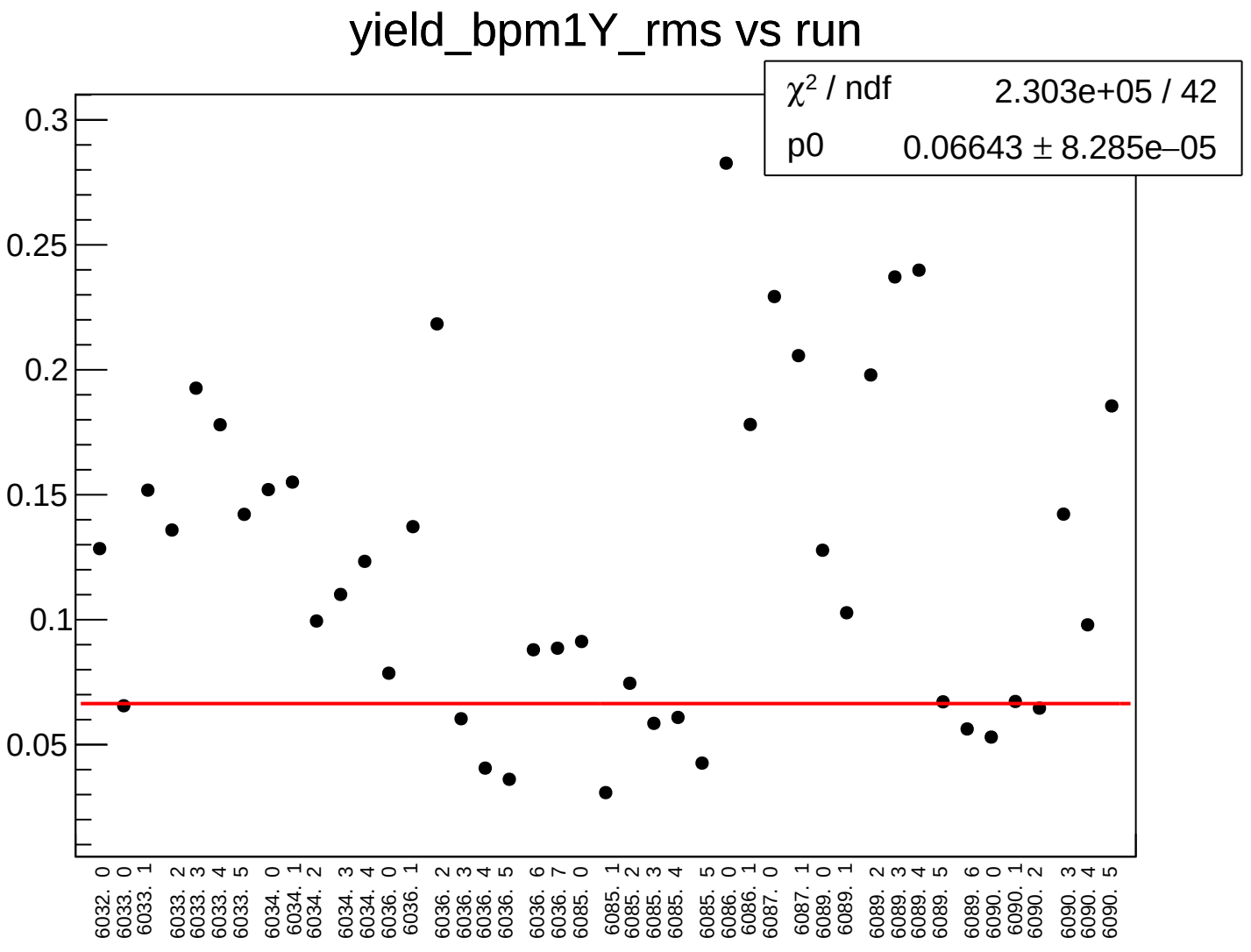

pull
Entries 43
Mean 27.17
Std Dev 17.43
800
600
400
200
0
−200
−400

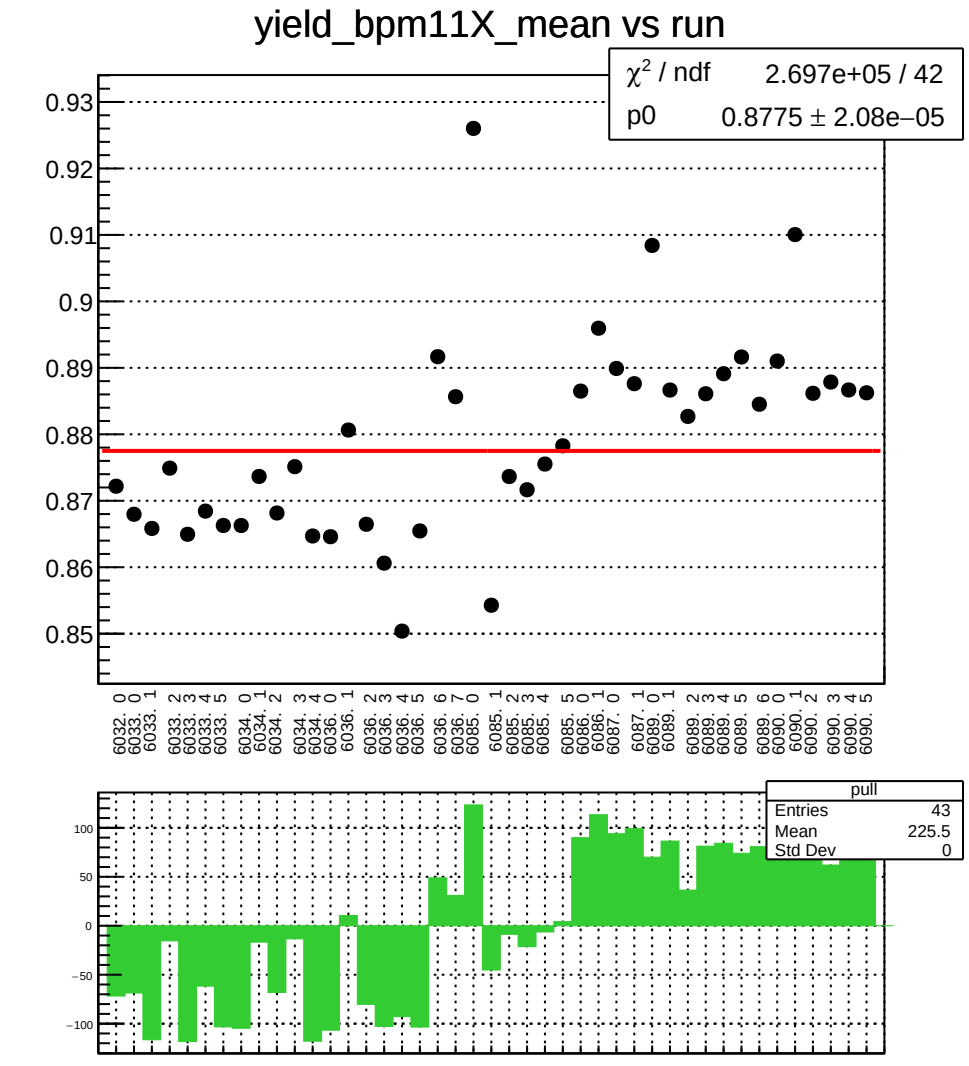

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

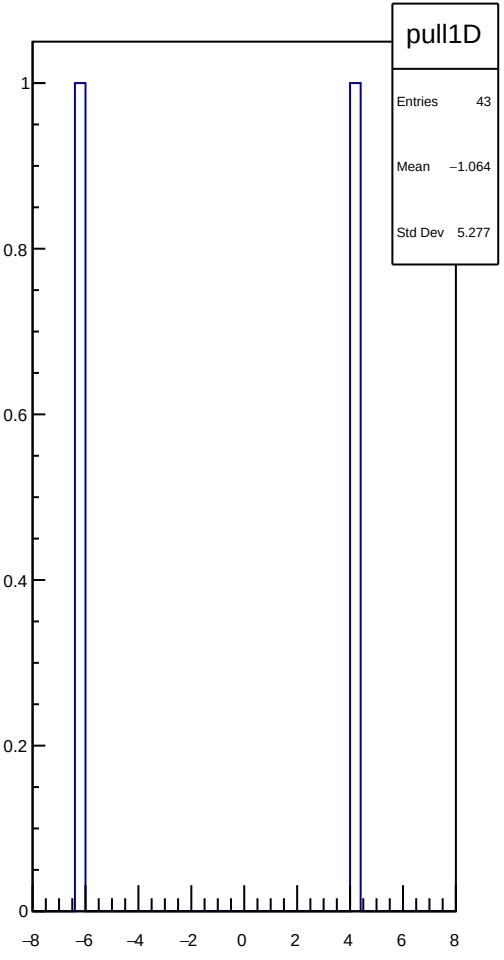

yield_bpm1X_rms vs run
χ² / ndf 2.058e+05 / 42
p0 0.09248 ± 0.0001132
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

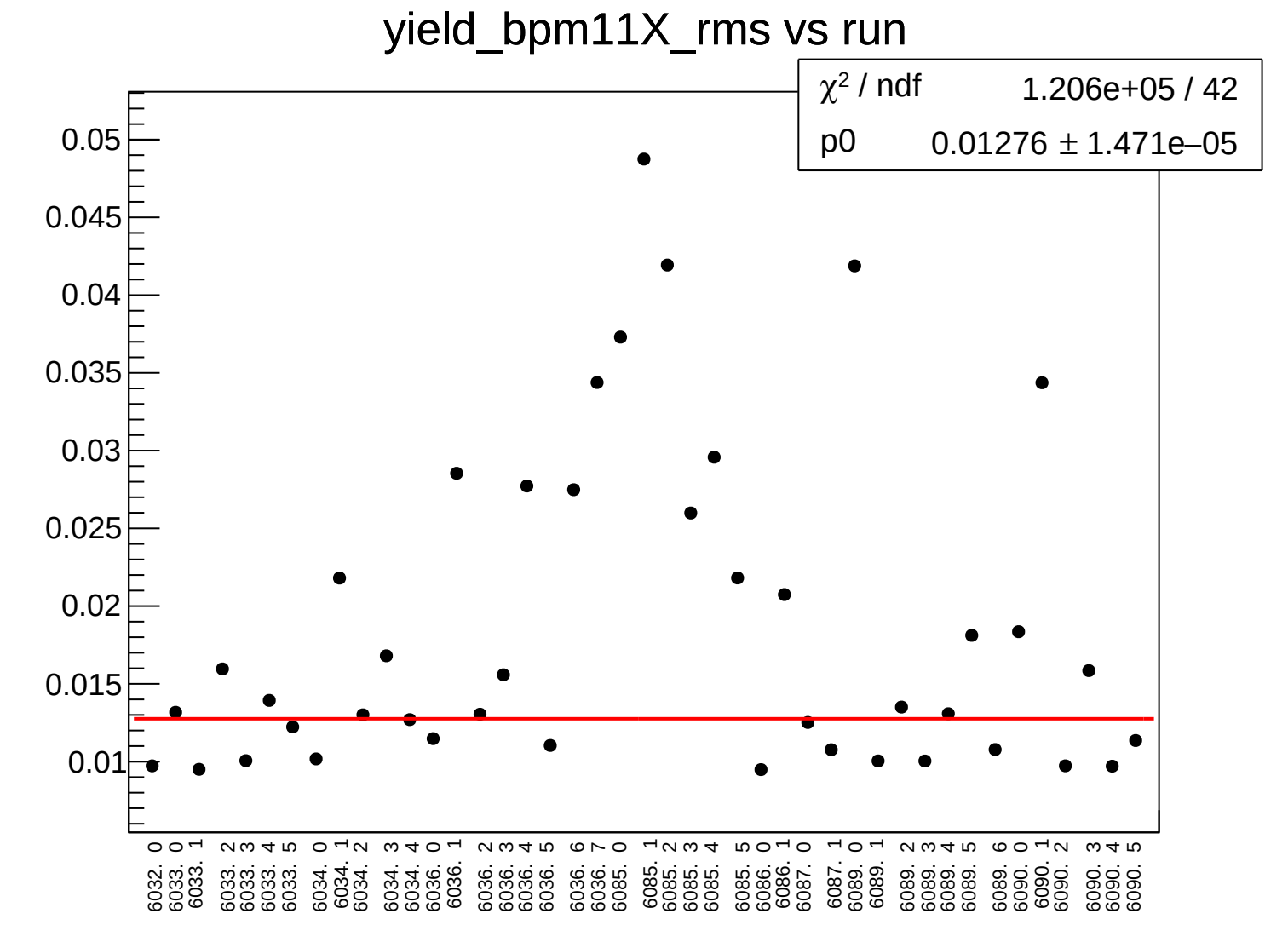

yield_bpm1Y_mean vs run
χ² / ndf 1.45e+08 / 42
p0 1.603 ± 0.0001172
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −152.9
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

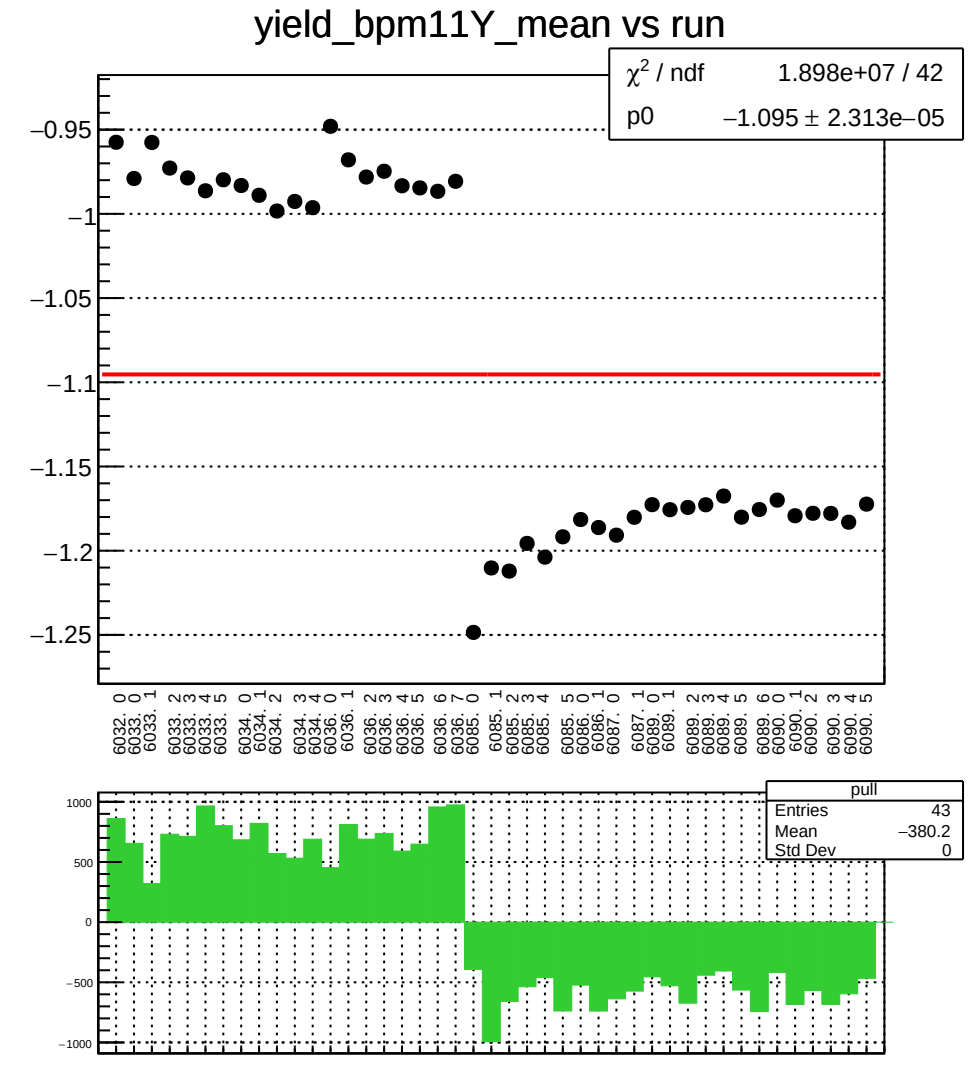

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

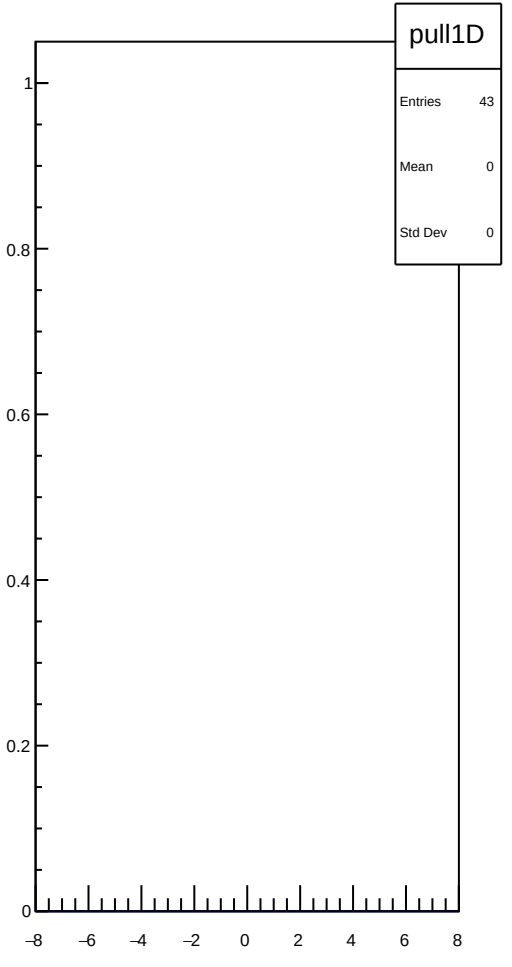

yield_bpm1Y_rms vs run
χ² / ndf 2.303e+05 / 42
p0 0.06643 ± 8.285e–05
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

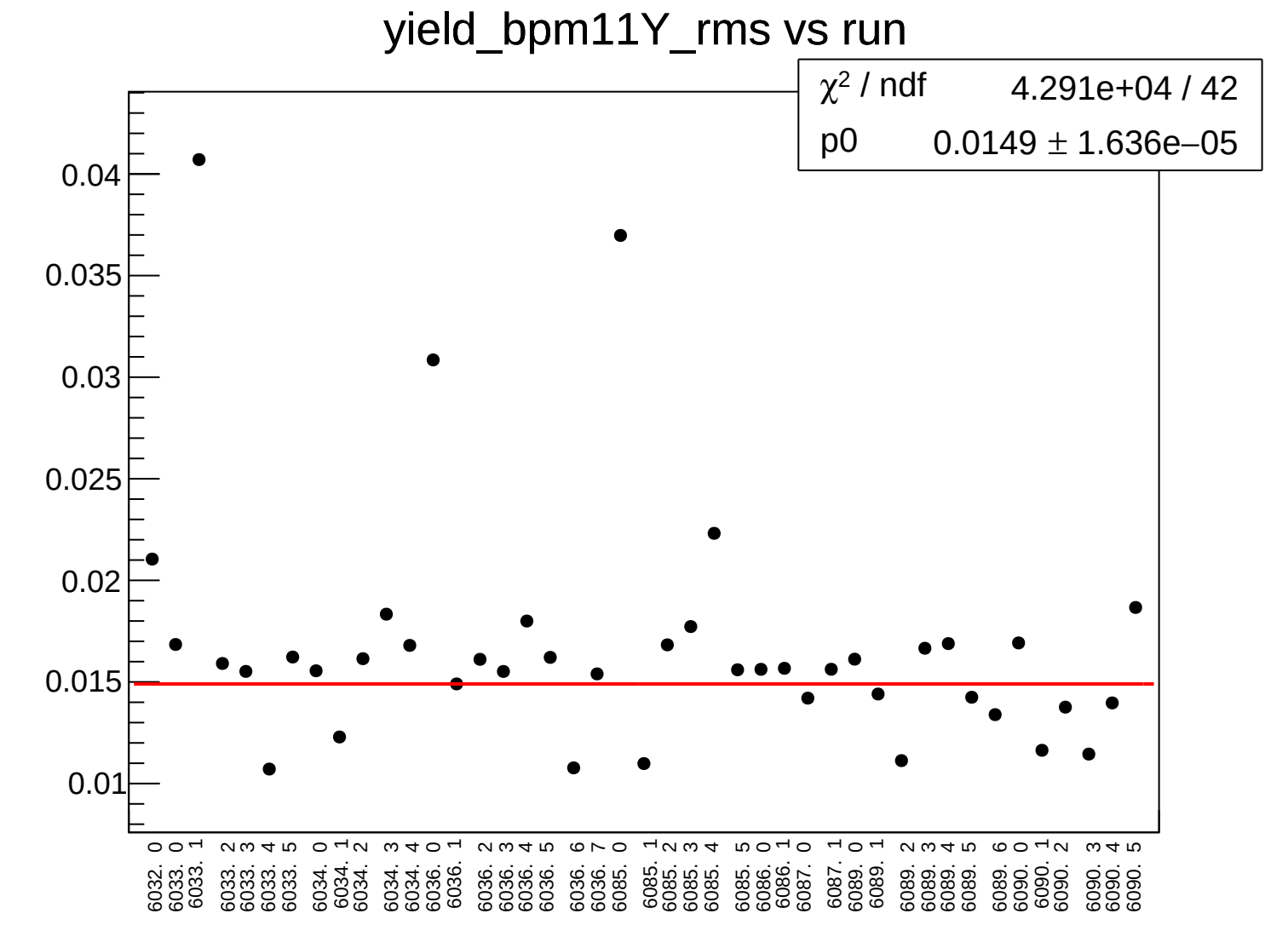

yield_bpm11X_mean vs run
χ² / ndf 2.697e+05 / 42
p0 0.8775 ± 2.08e−05
0.93
0.92
0.91
0.9
0.89
0.88
0.87
0.86
0.85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 225.5
Std Dev 0
100
50
0
−50
−100

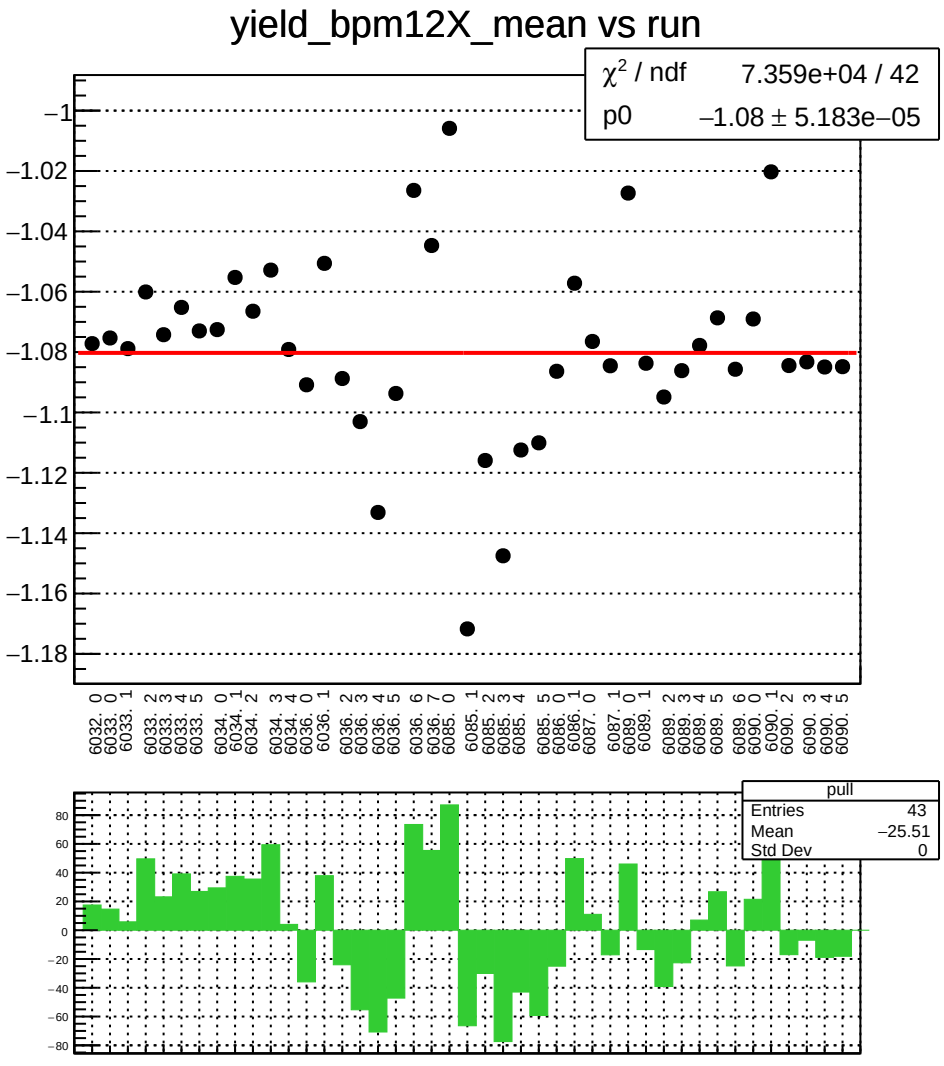

pull1D
Entries 43
Mean −1.064
Std Dev 5.277
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

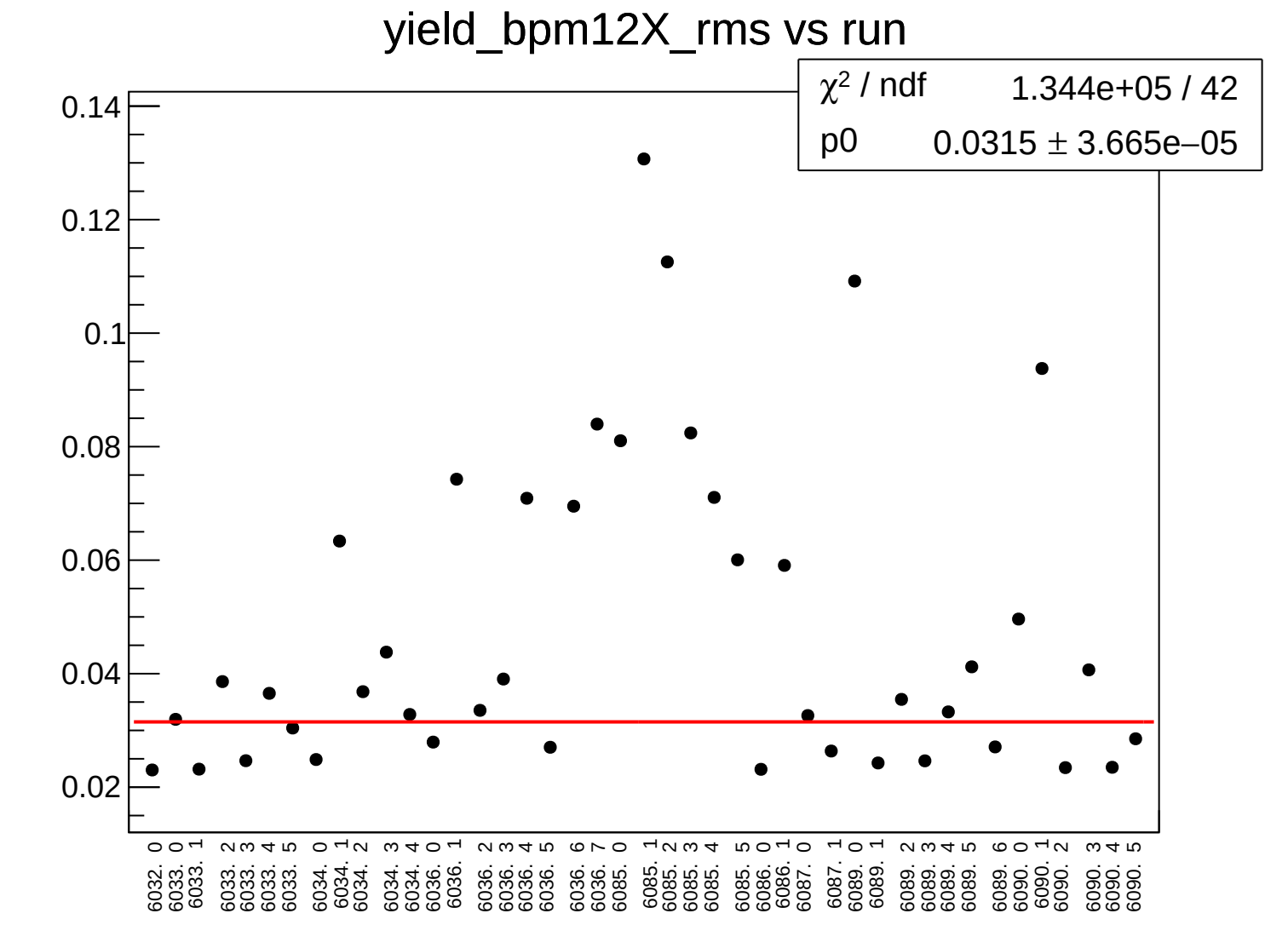

yield_bpm11X_rms vs run
χ² / ndf 1.206e+05 / 42
p0 0.01276 ± 1.471e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

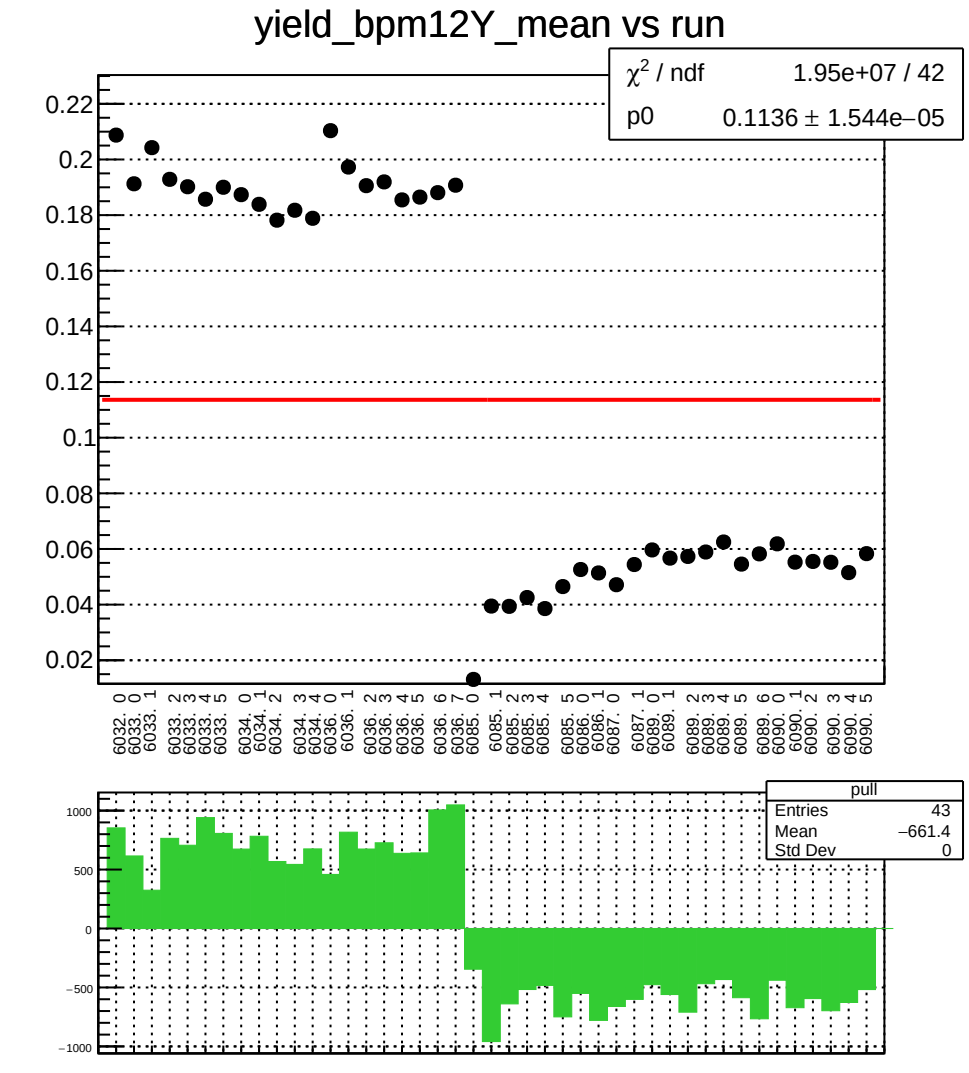

yield_bpm11Y_mean vs run
χ² / ndf 1.898e+07 / 42
p0 −1.095 ± 2.313e−05
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −380.2
Std Dev 0
1000
500
0
−500
−1000

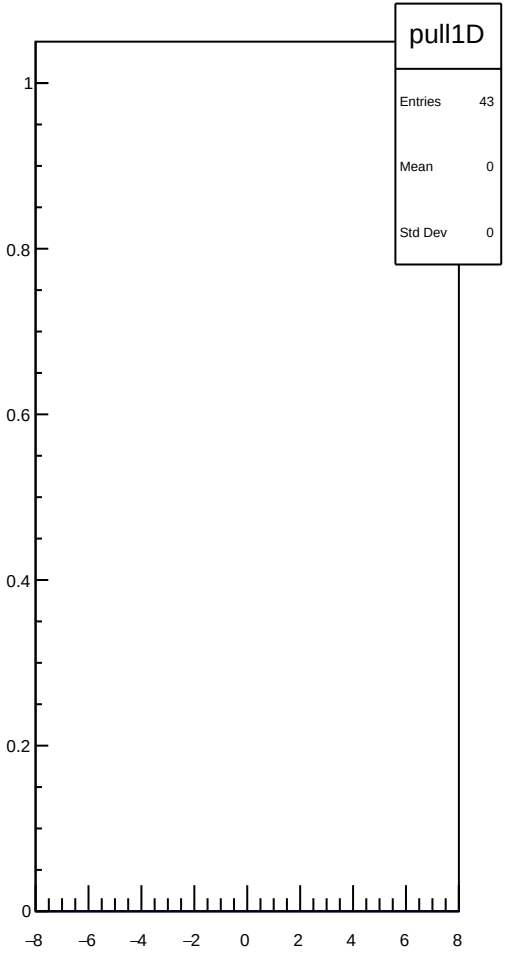

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

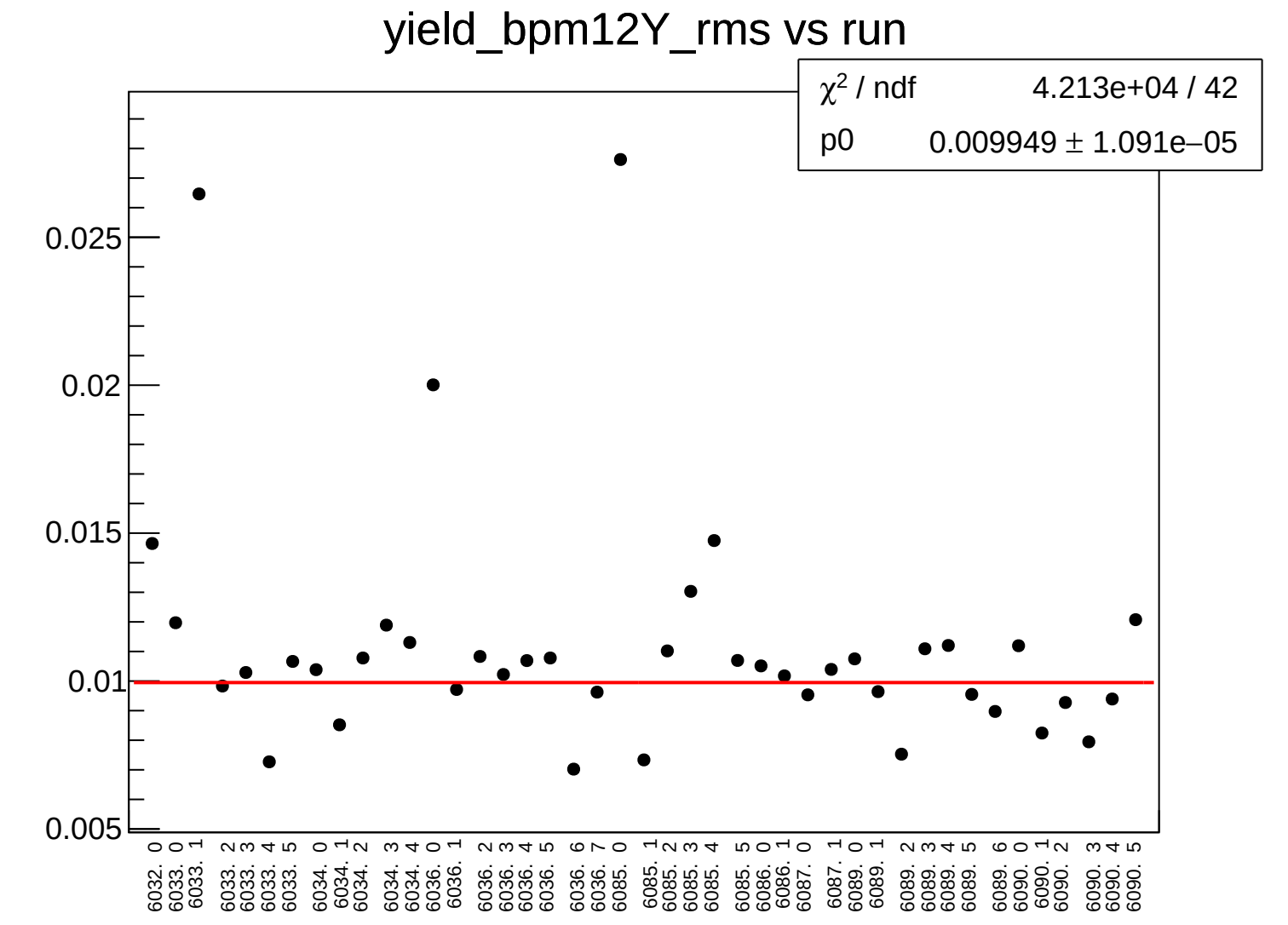

yield_bpm11Y_rms vs run
χ² / ndf 4.291e+04 / 42
p0 0.0149 ± 1.636e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

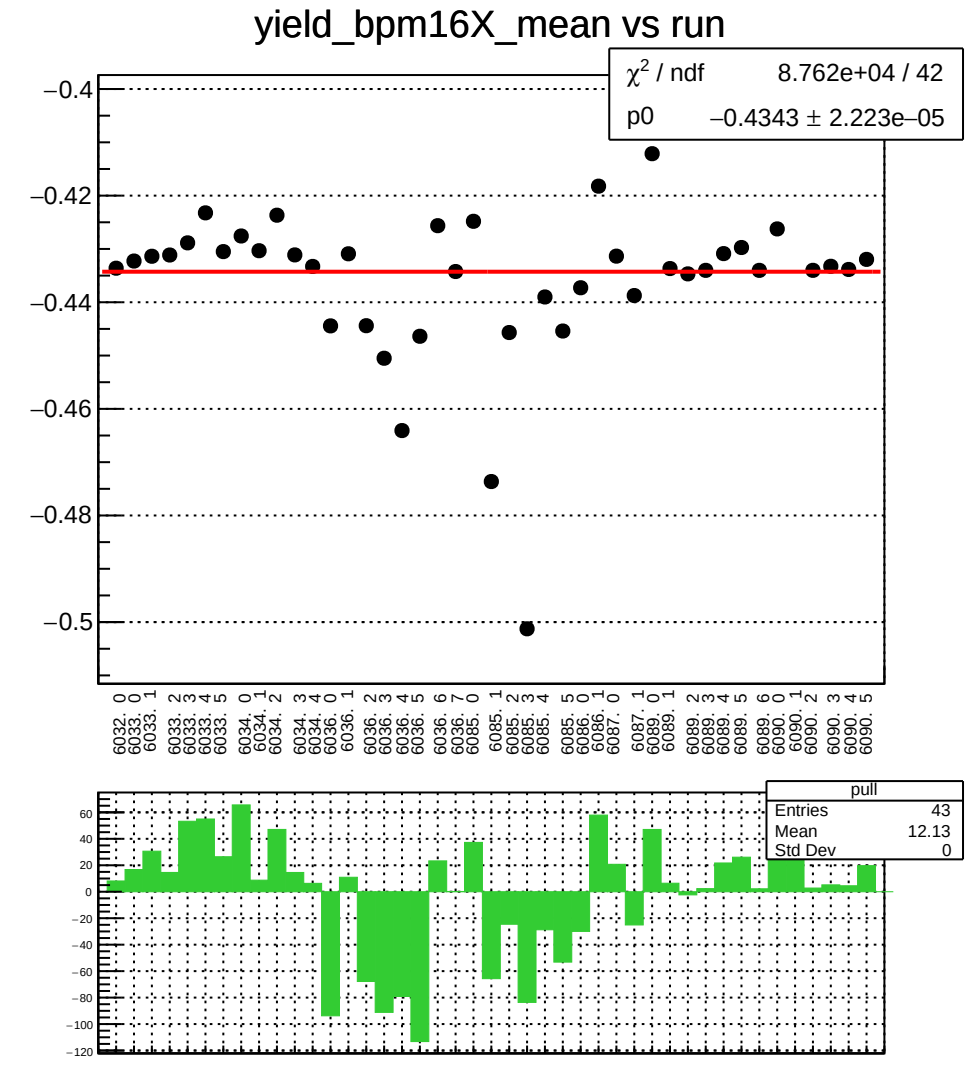

yield_bpm12X_mean vs run
χ² / ndf 7.359e+04 / 42
p0 −1.08 ± 5.183e−05
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −25.51
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean 2.49
Std Dev 5.55
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

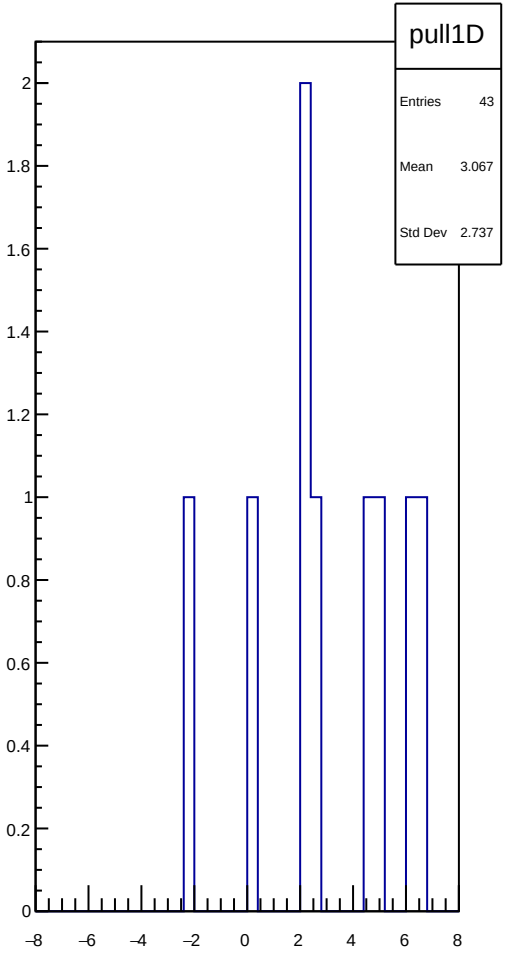

yield_bpm12X_rms vs run
χ² / ndf 1.344e+05 / 42
p0 0.0315 ± 3.665e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

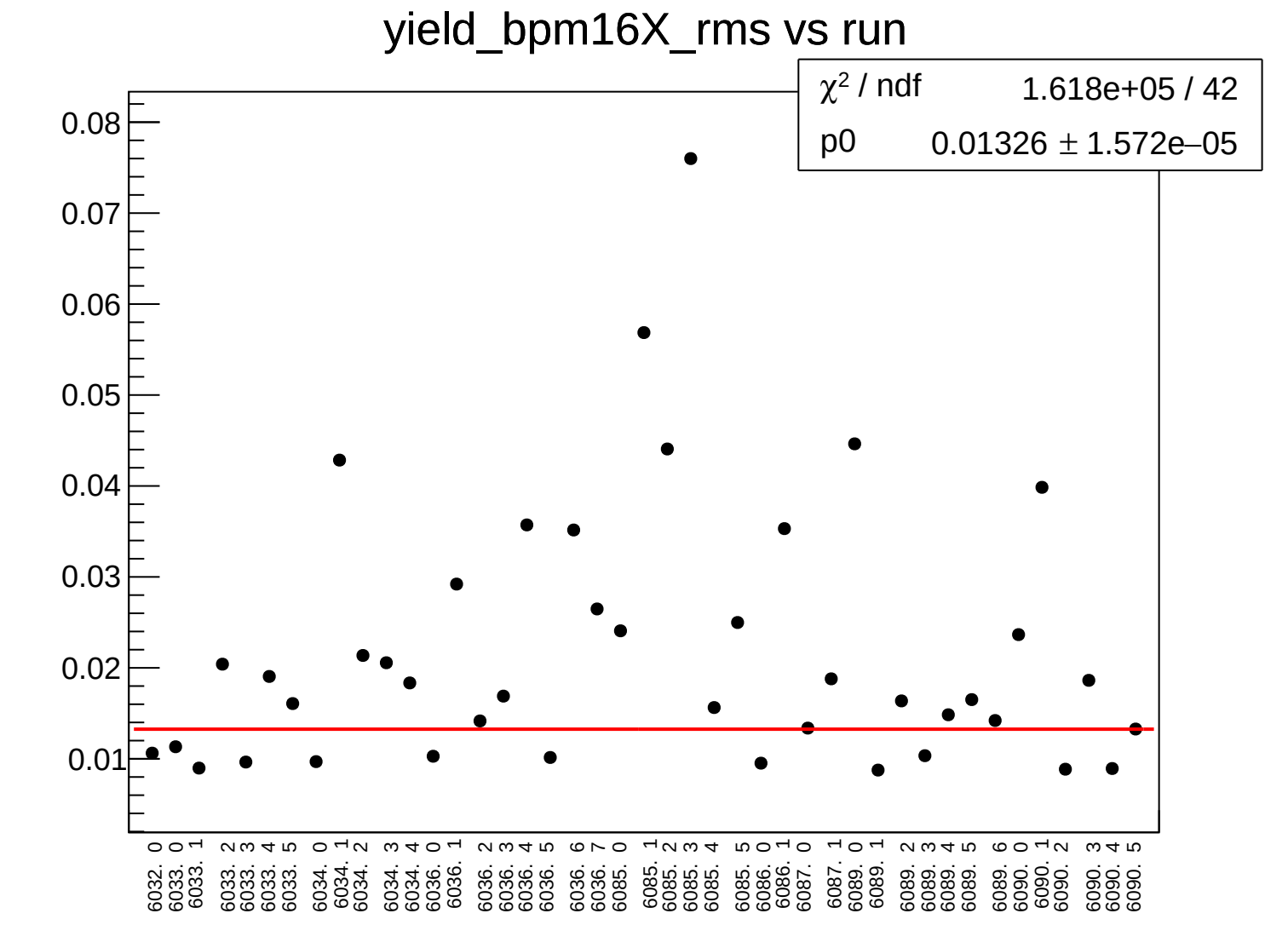

yield_bpm12Y_mean vs run
χ² / ndf 1.95e+07 / 42
p0 0.1136 ± 1.544e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −661.4
Std Dev 0
1000
500
0
−500
−1000

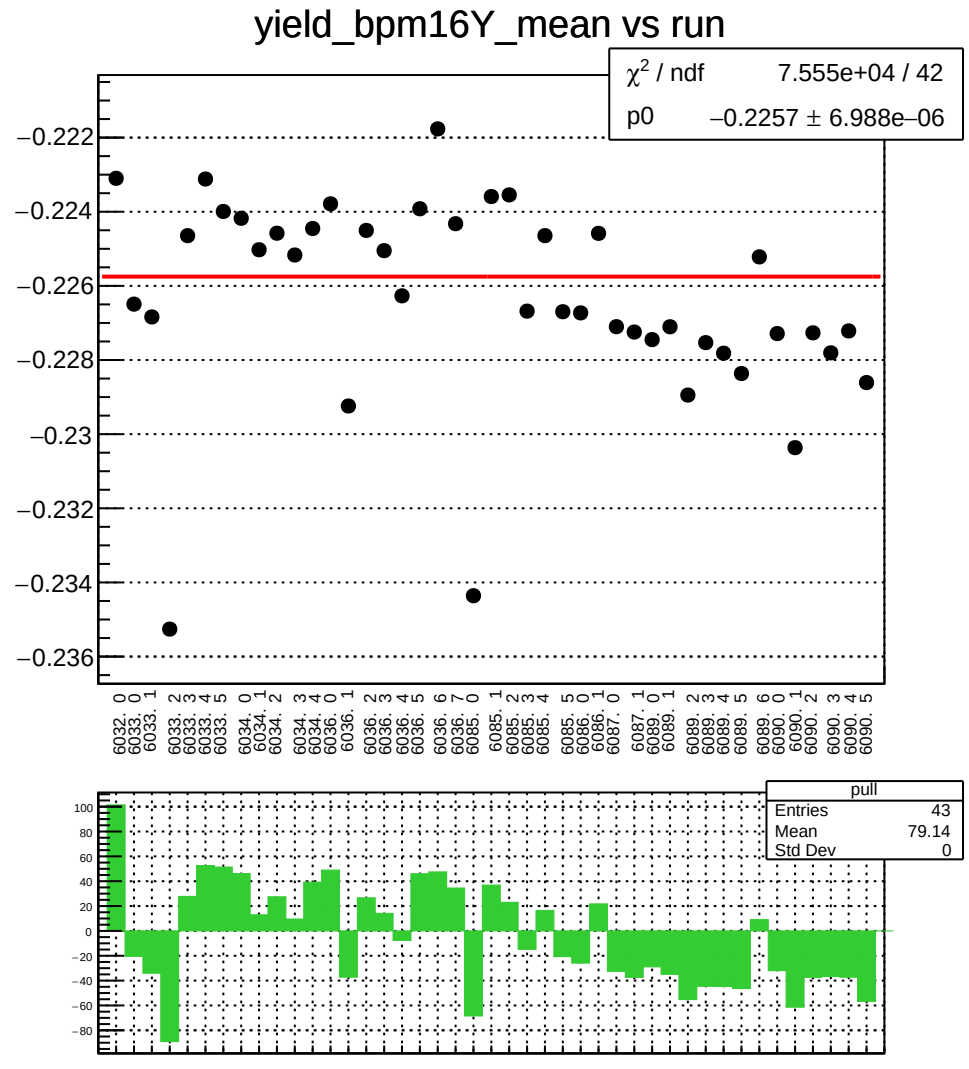

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

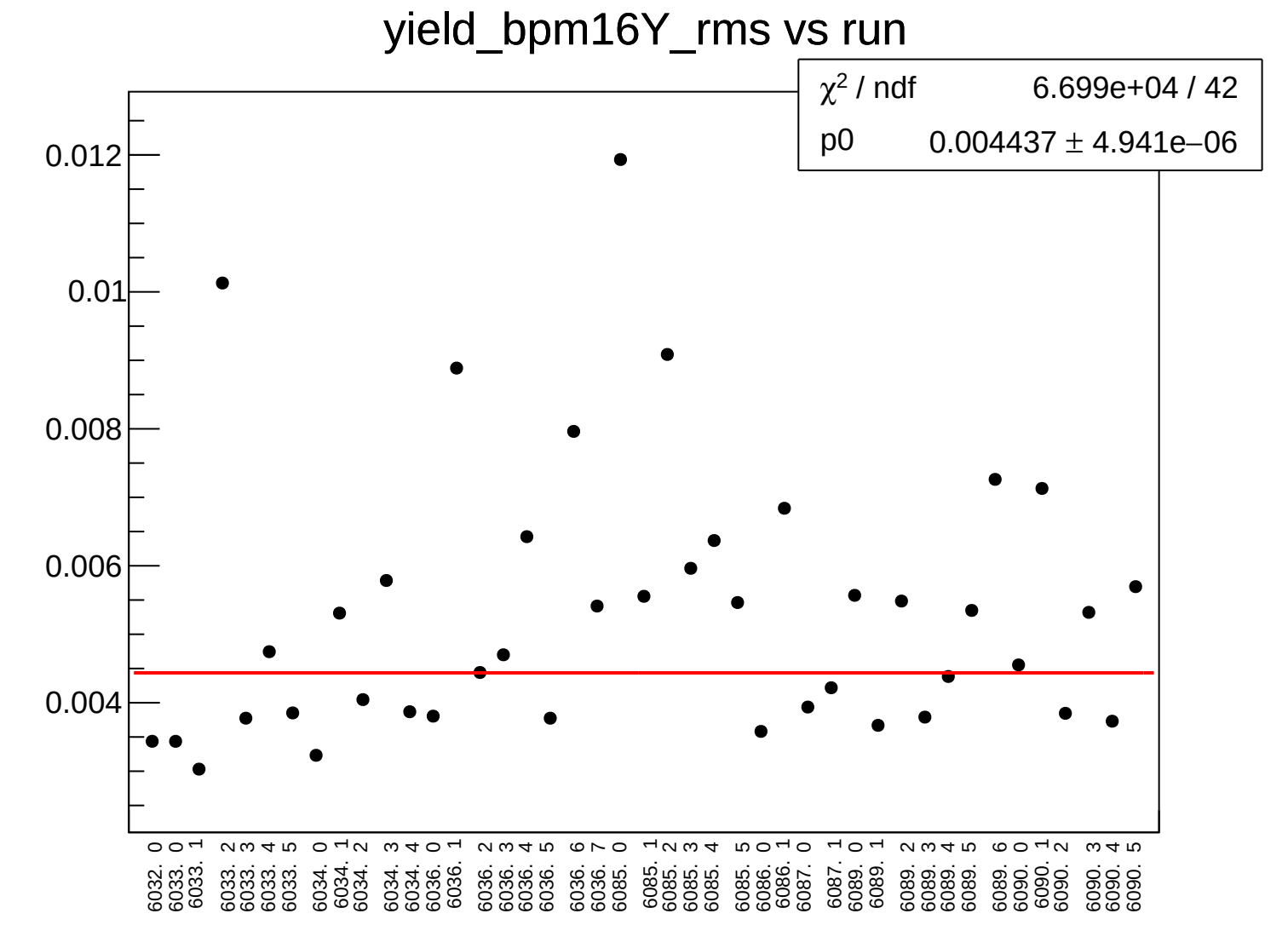

yield_bpm12Y_rms vs run
χ² / ndf 4.213e+04 / 42
p0 0.009949 ± 1.091e−05
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

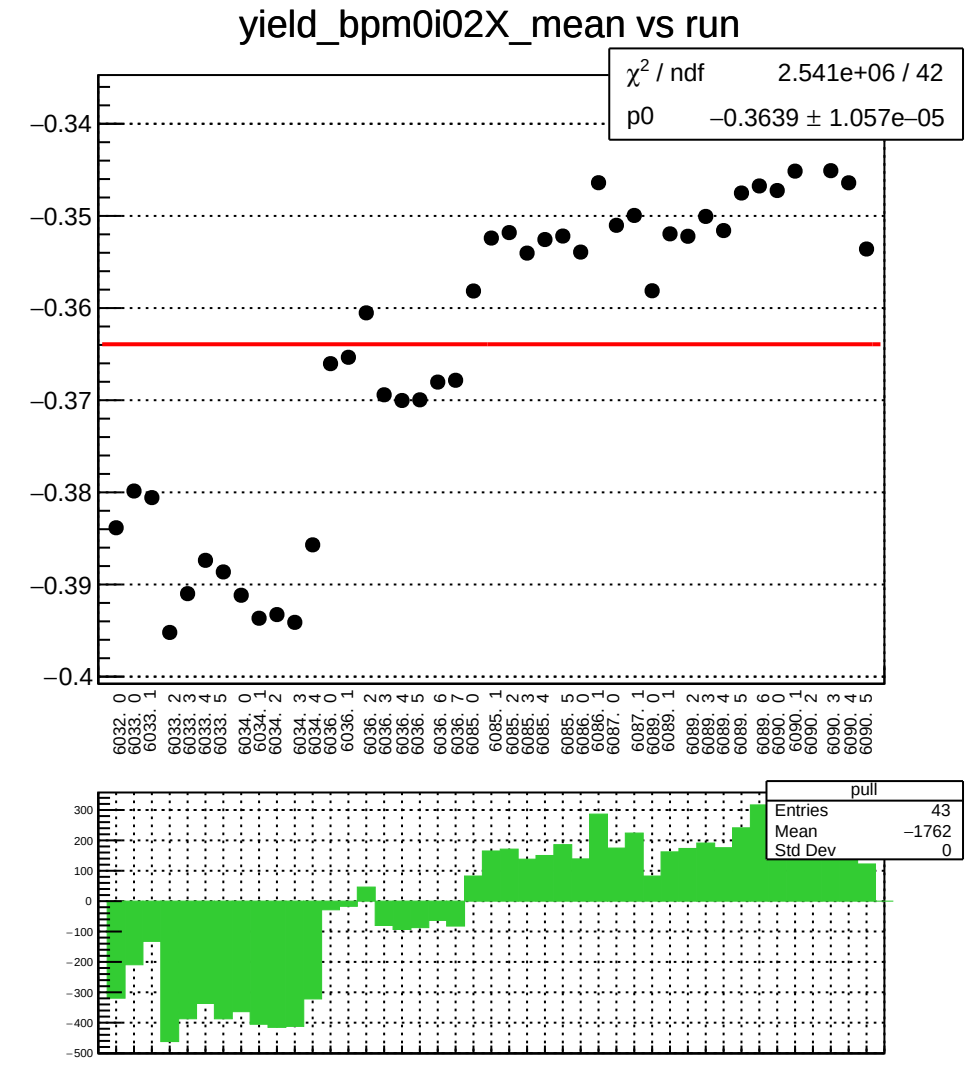

yield_bpm16X_mean vs run
χ² / ndf 8.762e+04 / 42
p0 −0.4343 ± 2.223e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.13
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

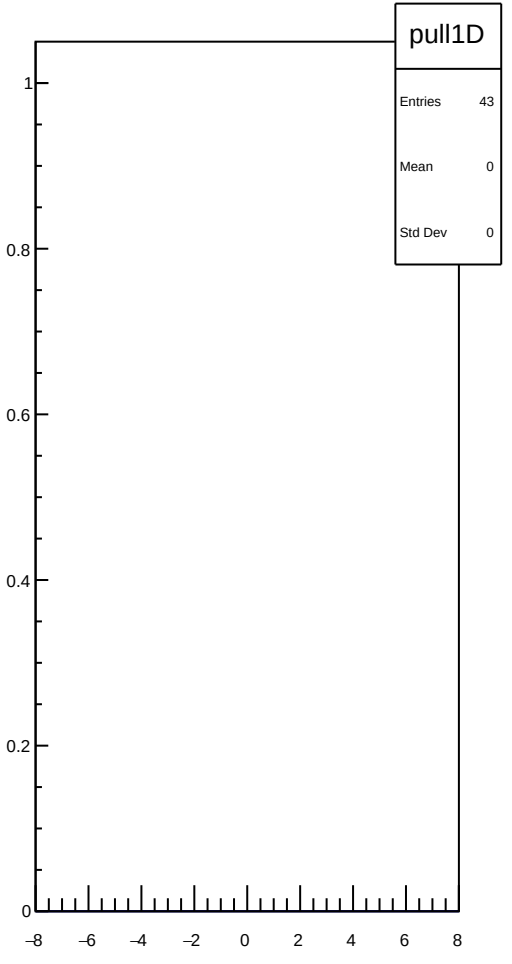

pull1D
Entries 43
Mean 3.067
Std Dev 2.737
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

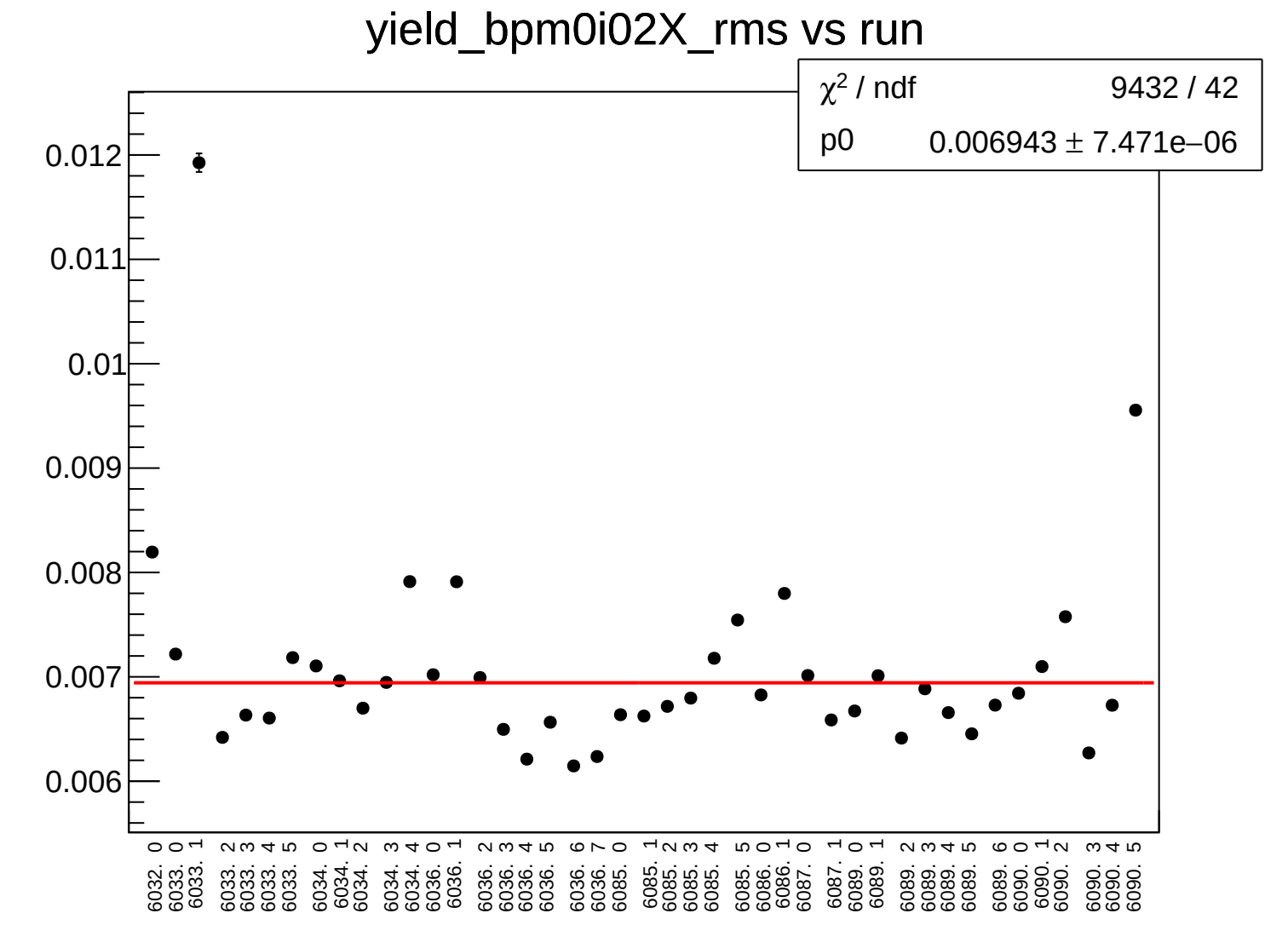

yield_bpm16X_rms vs run
χ² / ndf 1.618e+05 / 42
p0 0.01326 ± 1.572e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

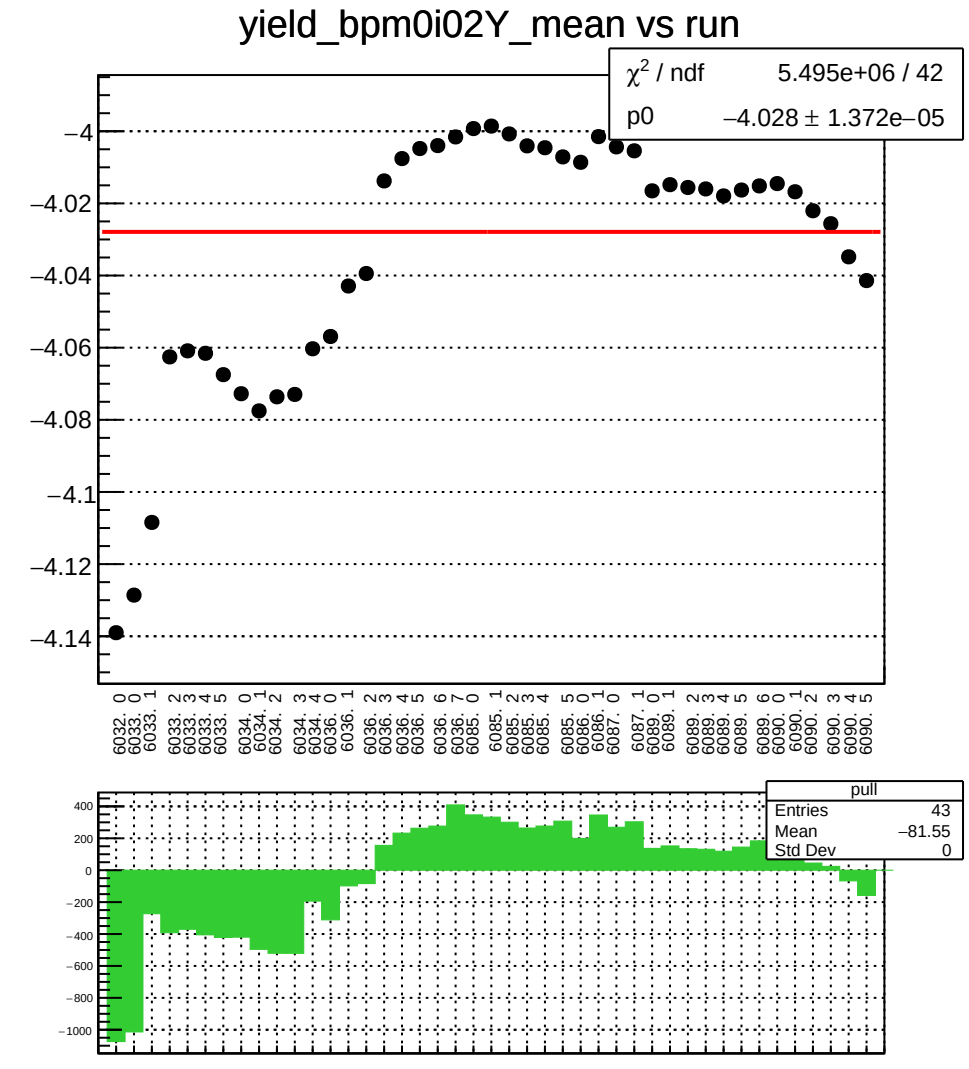

yield_bpm16Y_mean vs run
χ² / ndf 7.555e+04 / 42
p0 −0.2257 ± 6.988e−06
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
−0.236
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 79.14
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean −7.655
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

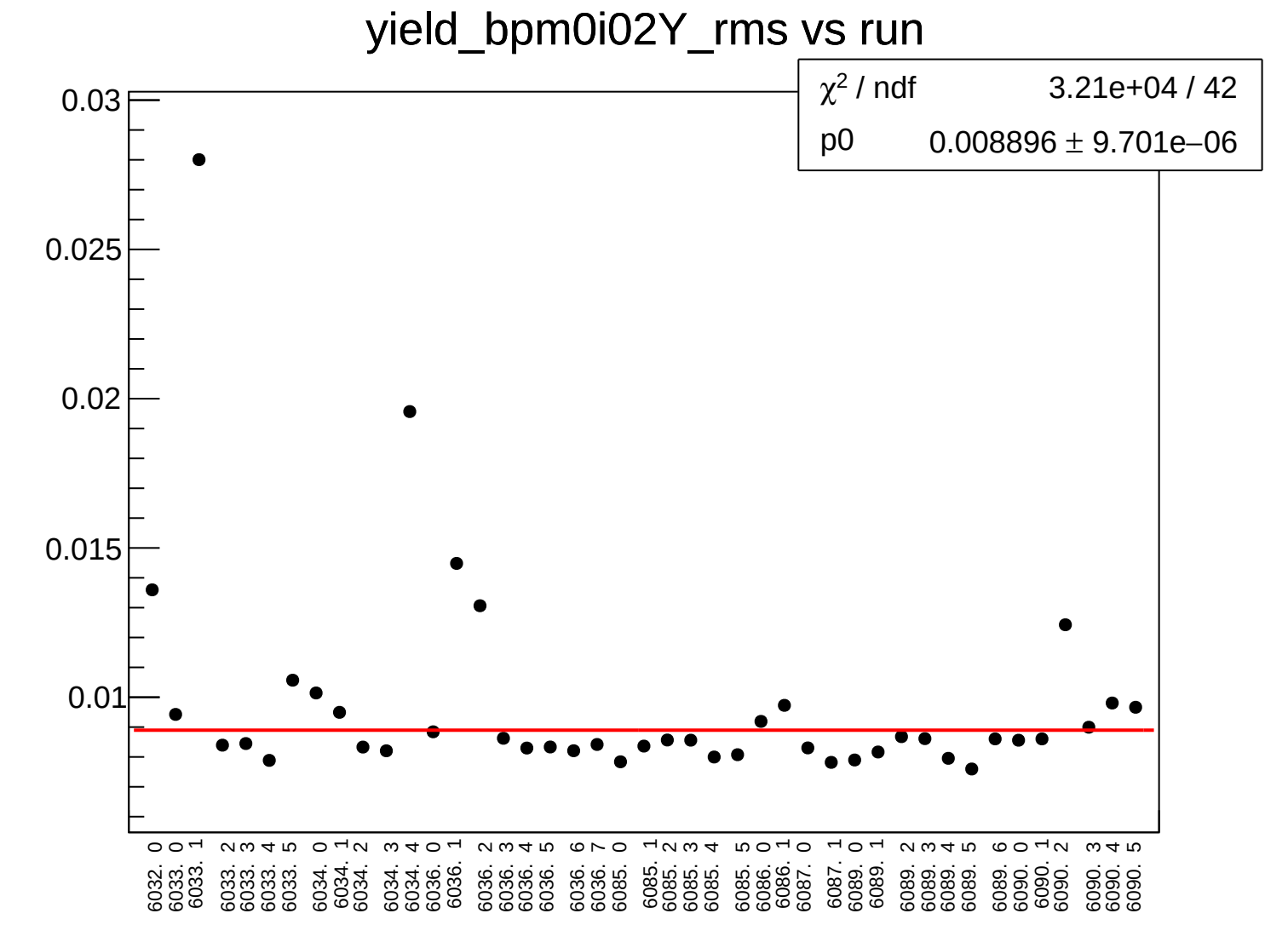

yield_bpm16Y_rms vs run
χ² / ndf 6.699e+04 / 42
p0 0.004437 ± 4.941e−06
0.012
0.01
0.008
0.006
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

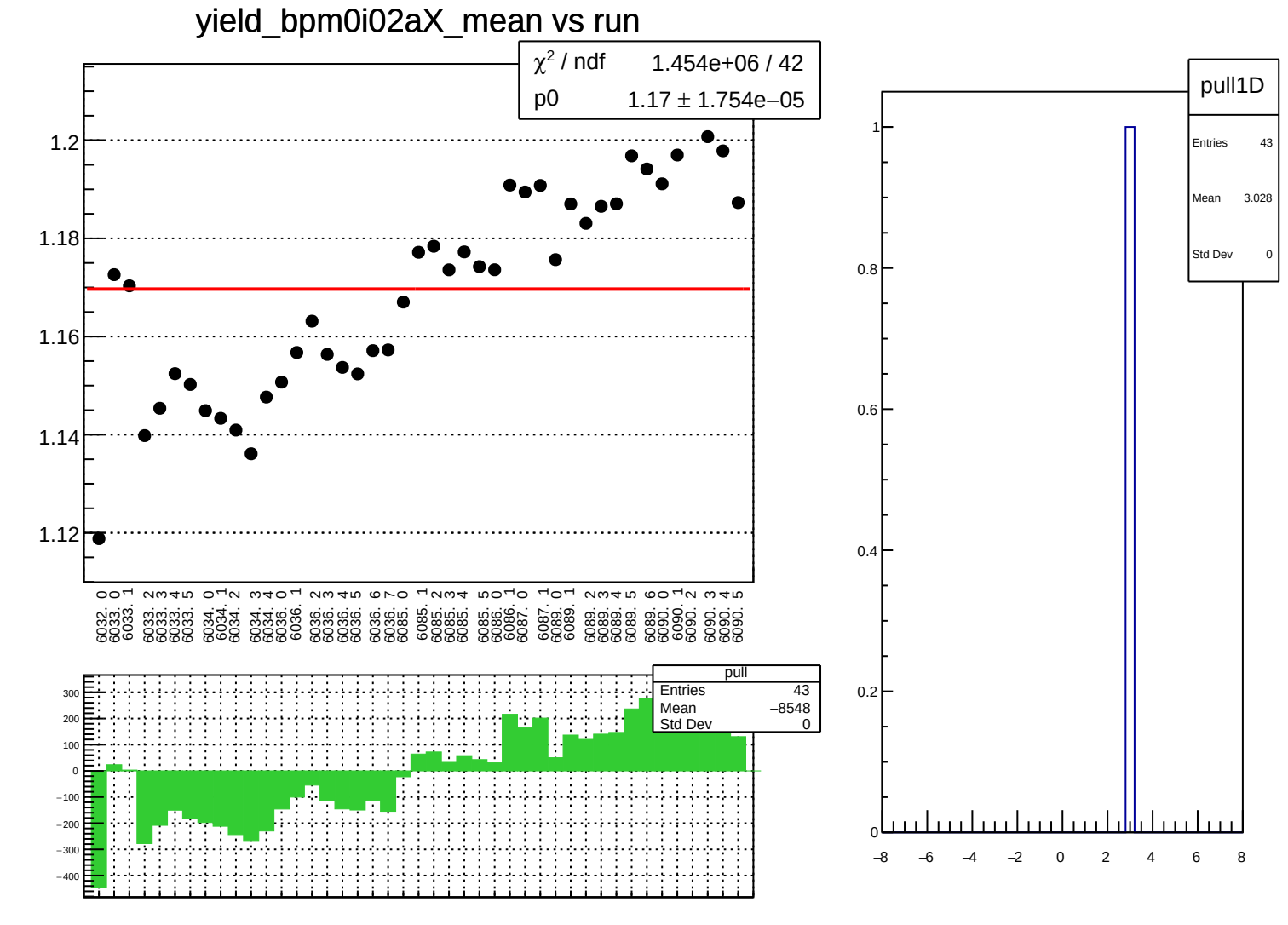

yield_bpm0i02X_mean vs run
χ² / ndf 2.541e+06 / 42
p0 −0.3639 ± 1.057e−05
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1762
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

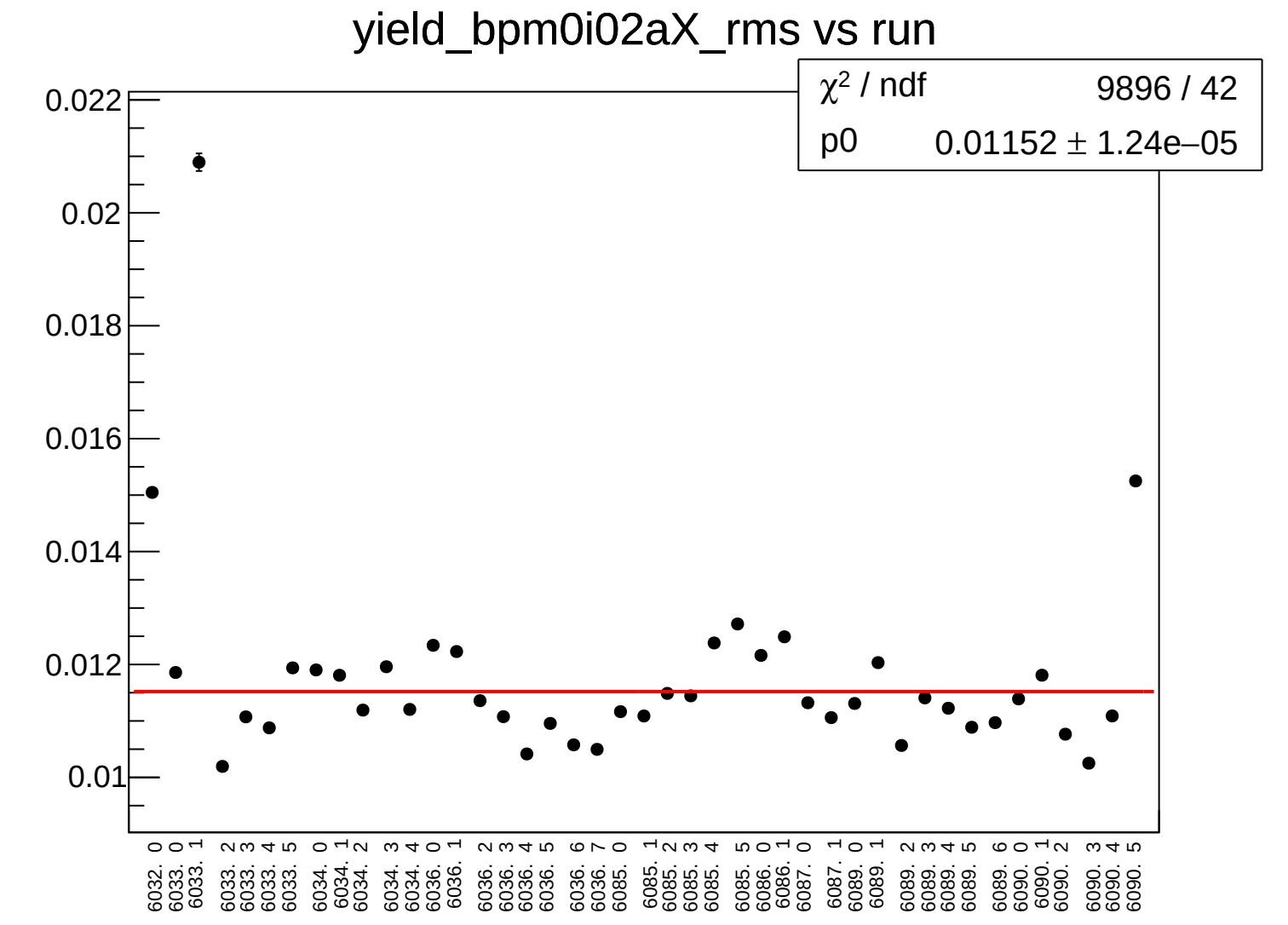

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

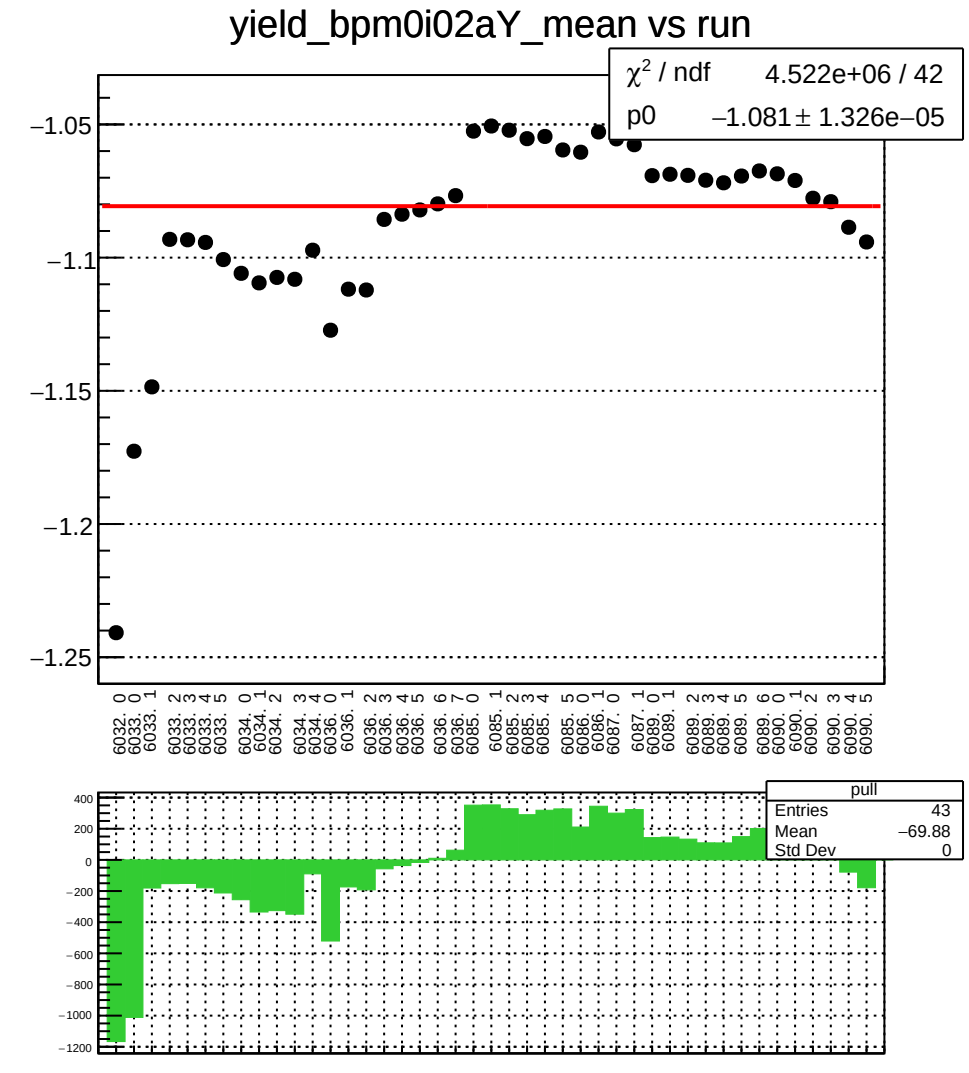

yield_bpm0i02X_rms vs run
χ² / ndf 9432 / 42
p0 0.006943 ± 7.471e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

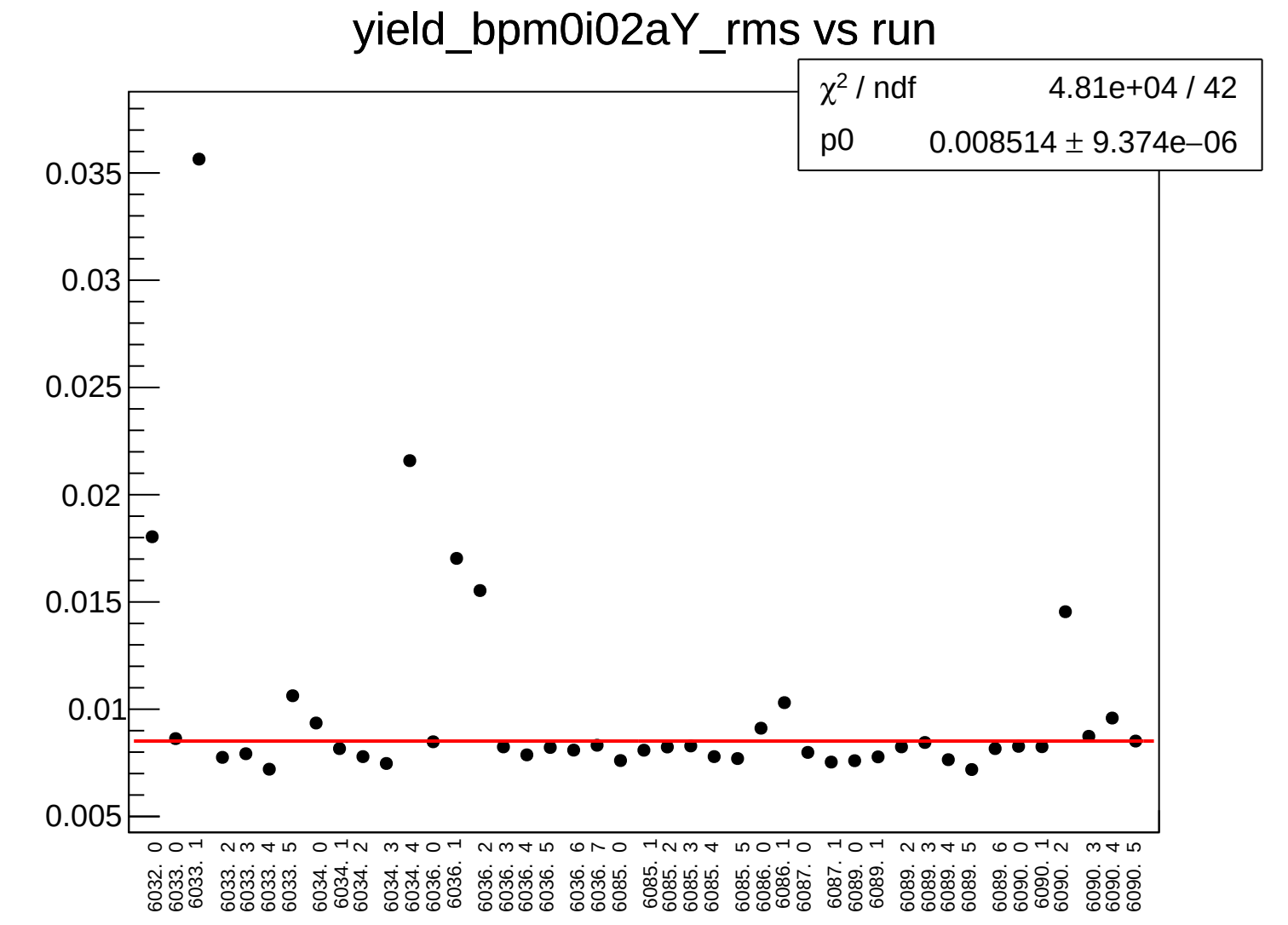

yield_bpm0i02Y_mean vs run
χ² / ndf 5.495e+06 / 42
p0 −4.028 ± 1.372e−05
−4
−4.02
−4.04
−4.06
−4.08
−4.1
−4.12
−4.14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −81.55
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

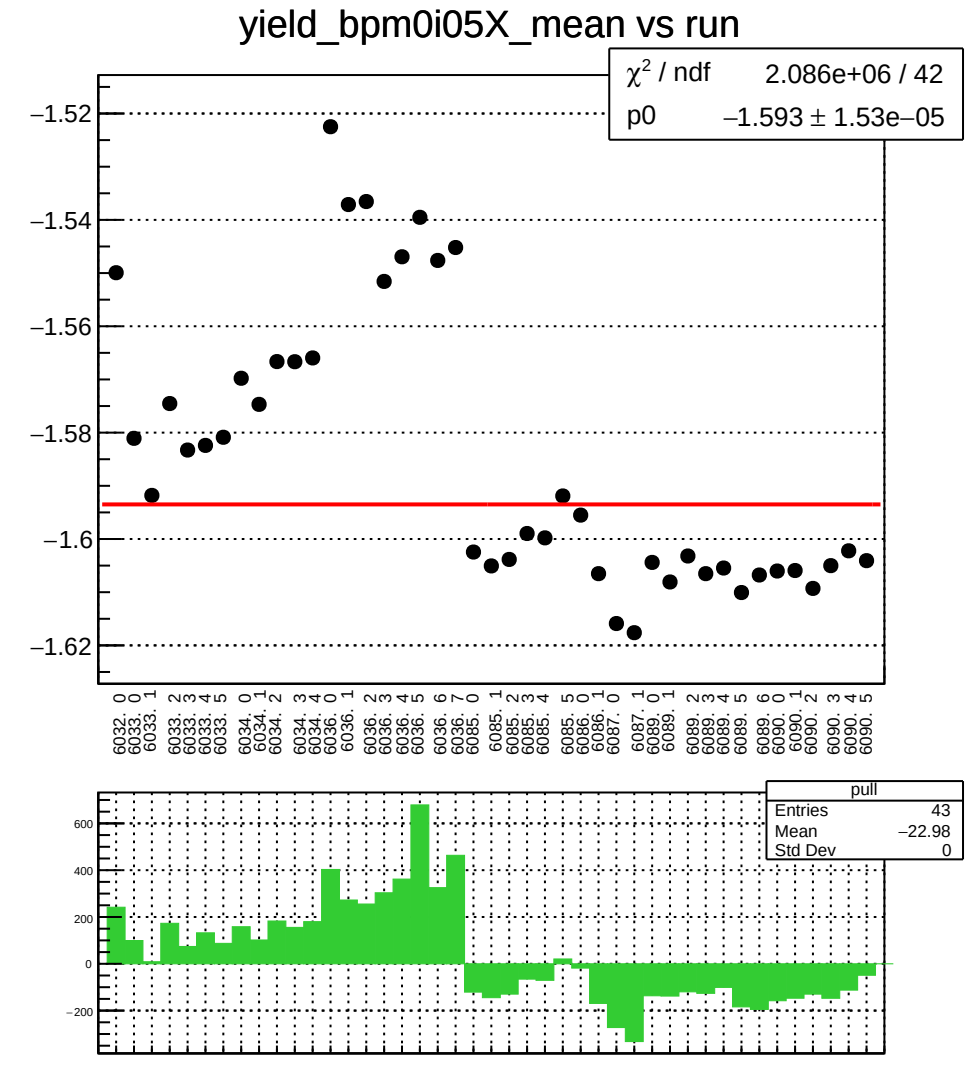

yield_bpm0i02Y_rms vs run
χ² / ndf 3.21e+04 / 42
p0 0.008896 ± 9.701e−06
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

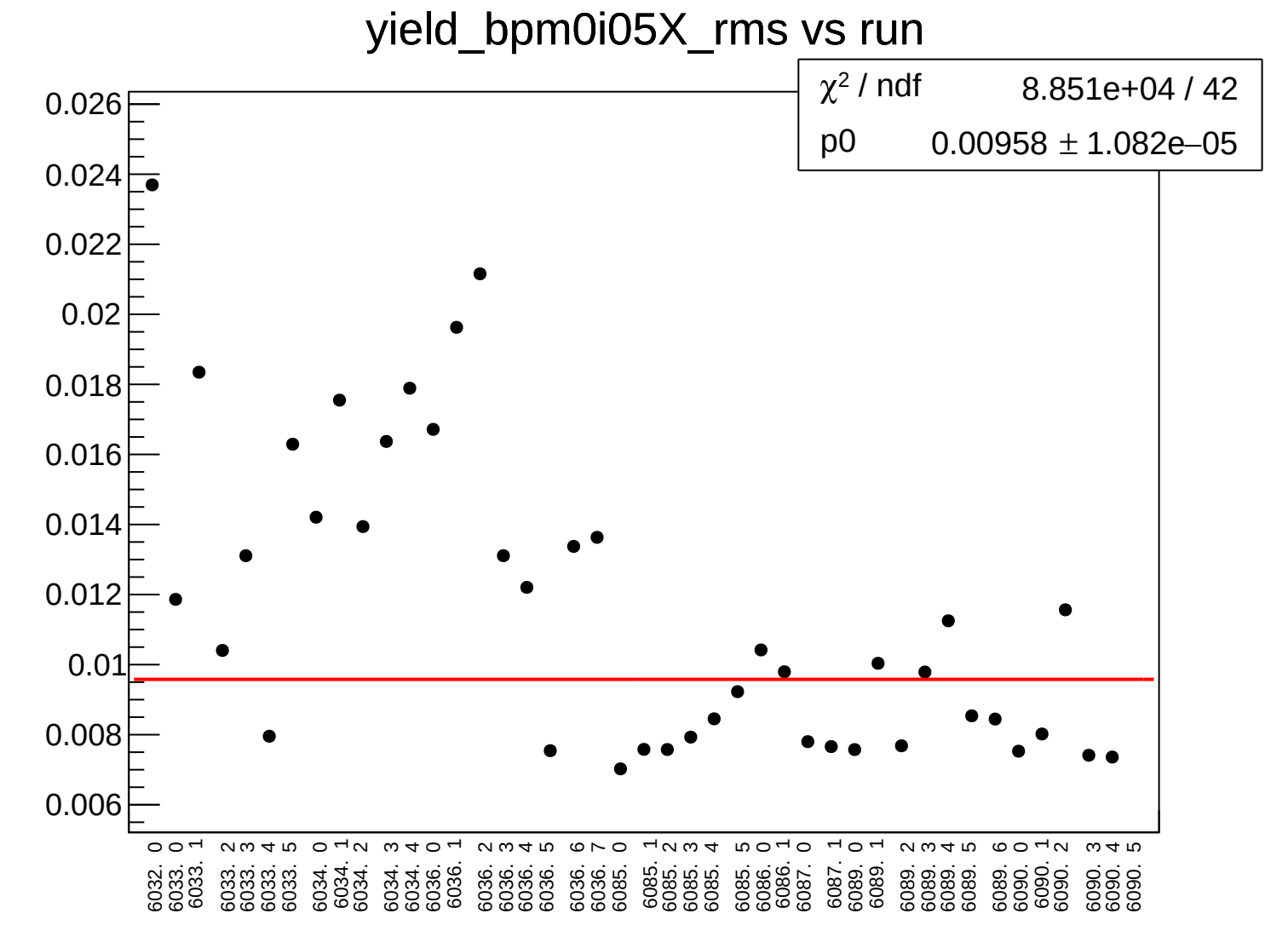

yield_bpm0i02aX_mean vs run
χ² / ndf 1.454e+06 / 42
p0 1.17 ± 1.754e−05
1.2
1.18
1.16
1.14
1.12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −8548
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 43
Mean 3.028
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

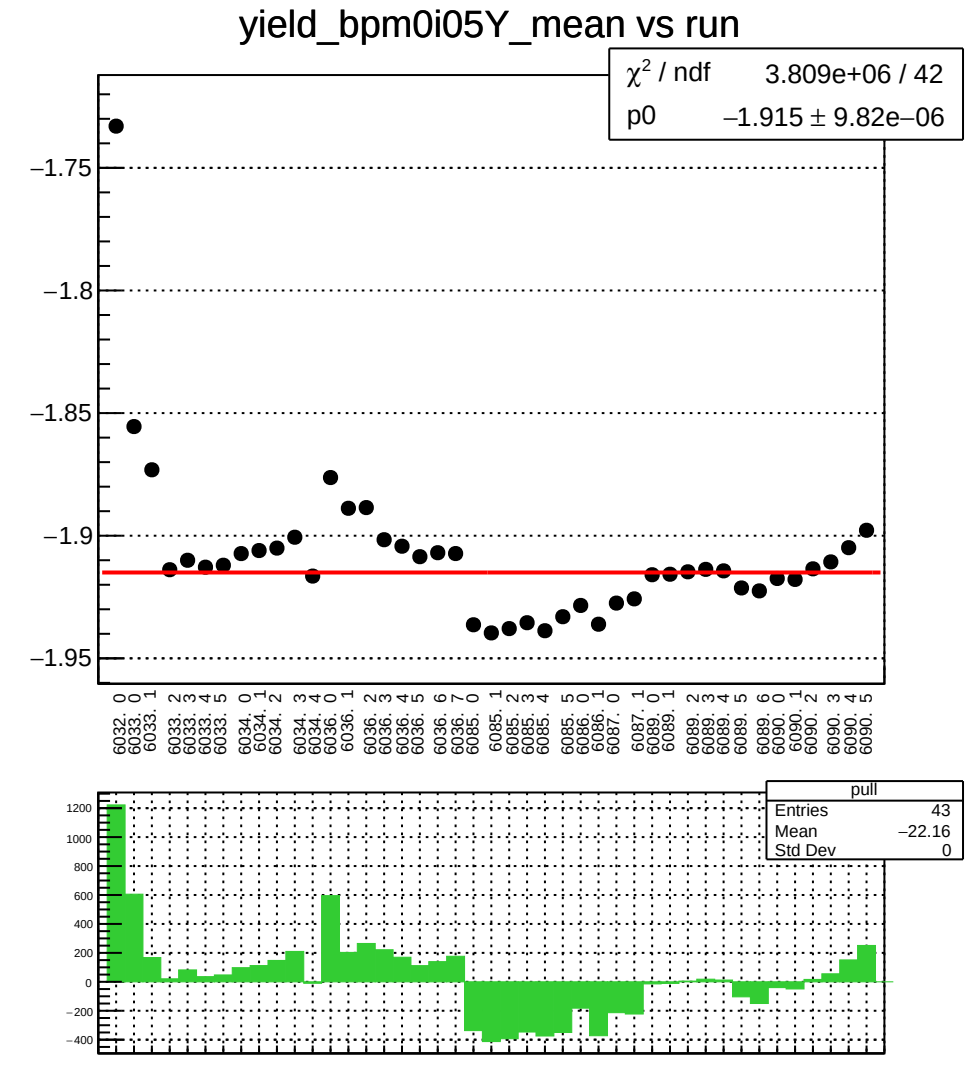

yield_bpm0i02aX_rms vs run
χ² / ndf 9896 / 42
p0 0.01152 ± 1.24e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

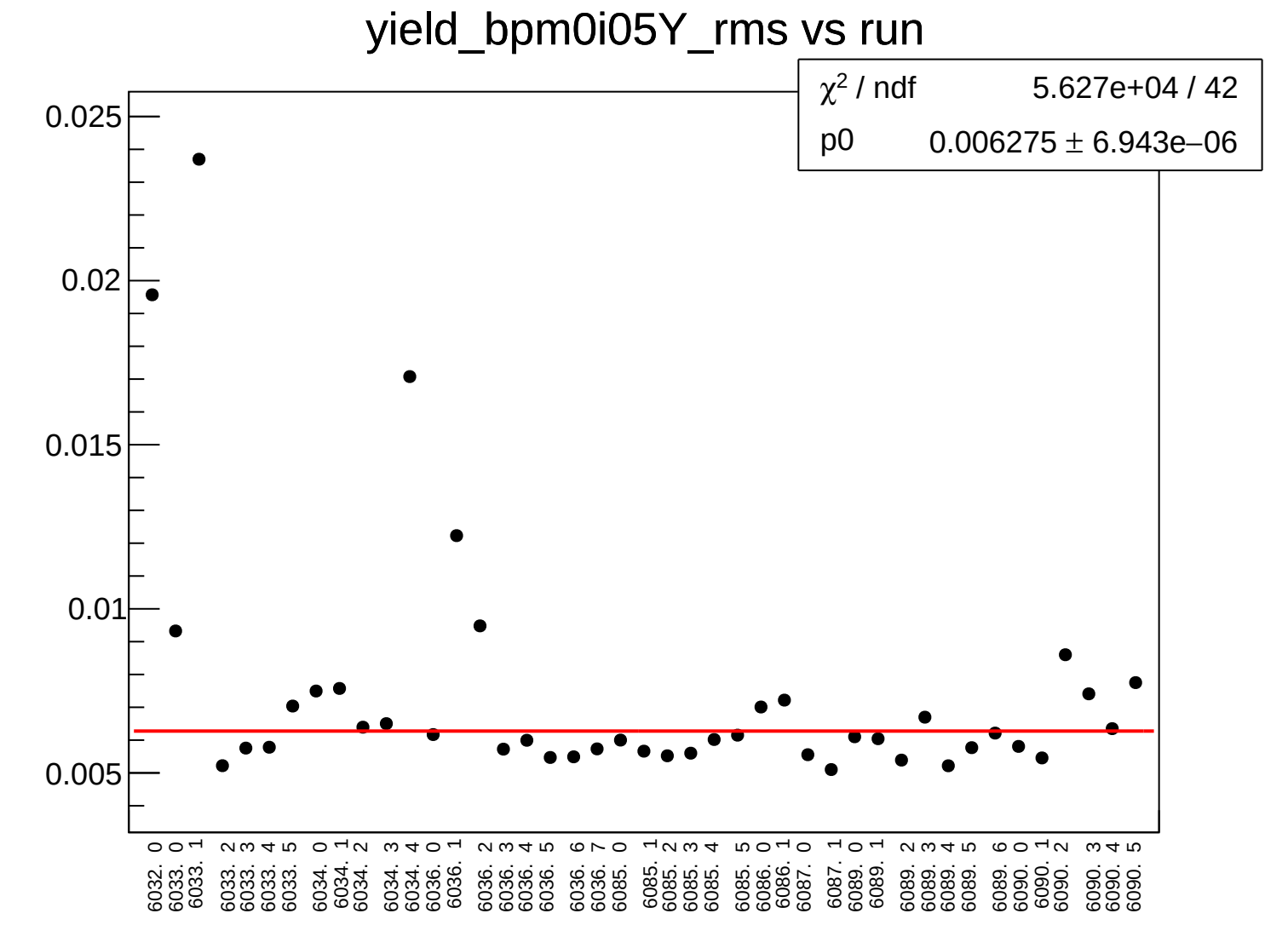

yield_bpm0i02aY_mean vs run
χ² / ndf 4.522e+06 / 42
p0 −1.081 ± 1.326e−05
−1.05
−1.1
−1.15
−1.2
−1.25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −69.88
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

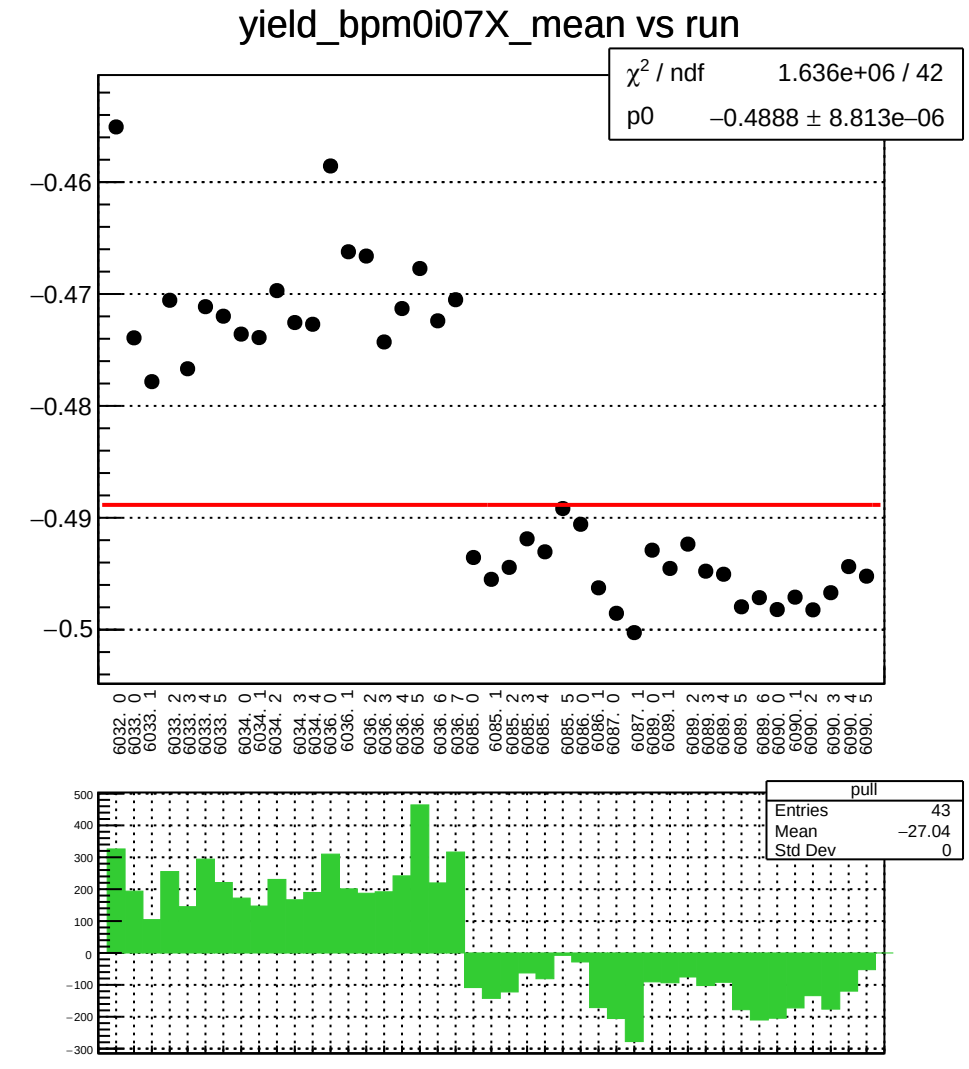

yield_bpm0i02aY_rms vs run
χ² / ndf 4.81e+04 / 42
p0 0.008514 ± 9.374e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

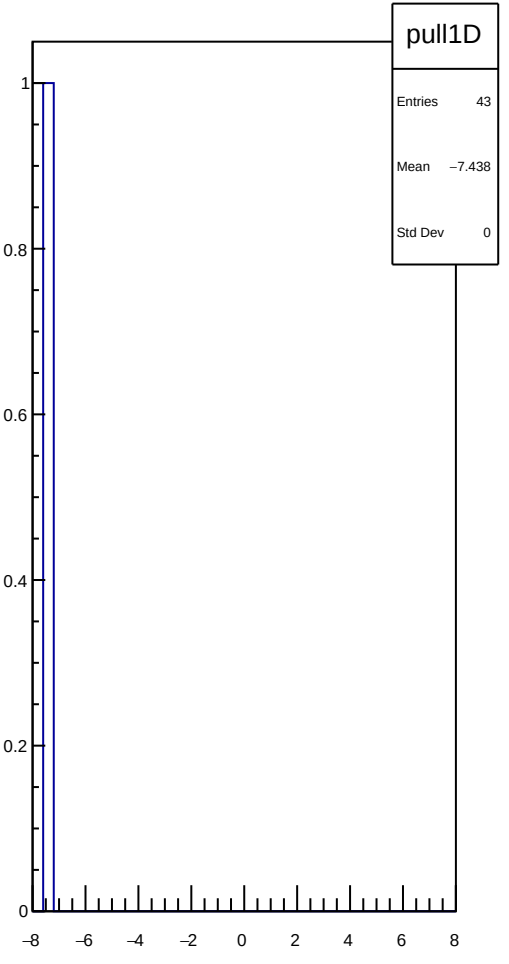

yield_bpm0i05X_mean vs run
χ² / ndf 2.086e+06 / 42
p0 −1.593 ± 1.53e−05
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −22.98
Std Dev 0
600
400
200
0
−200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

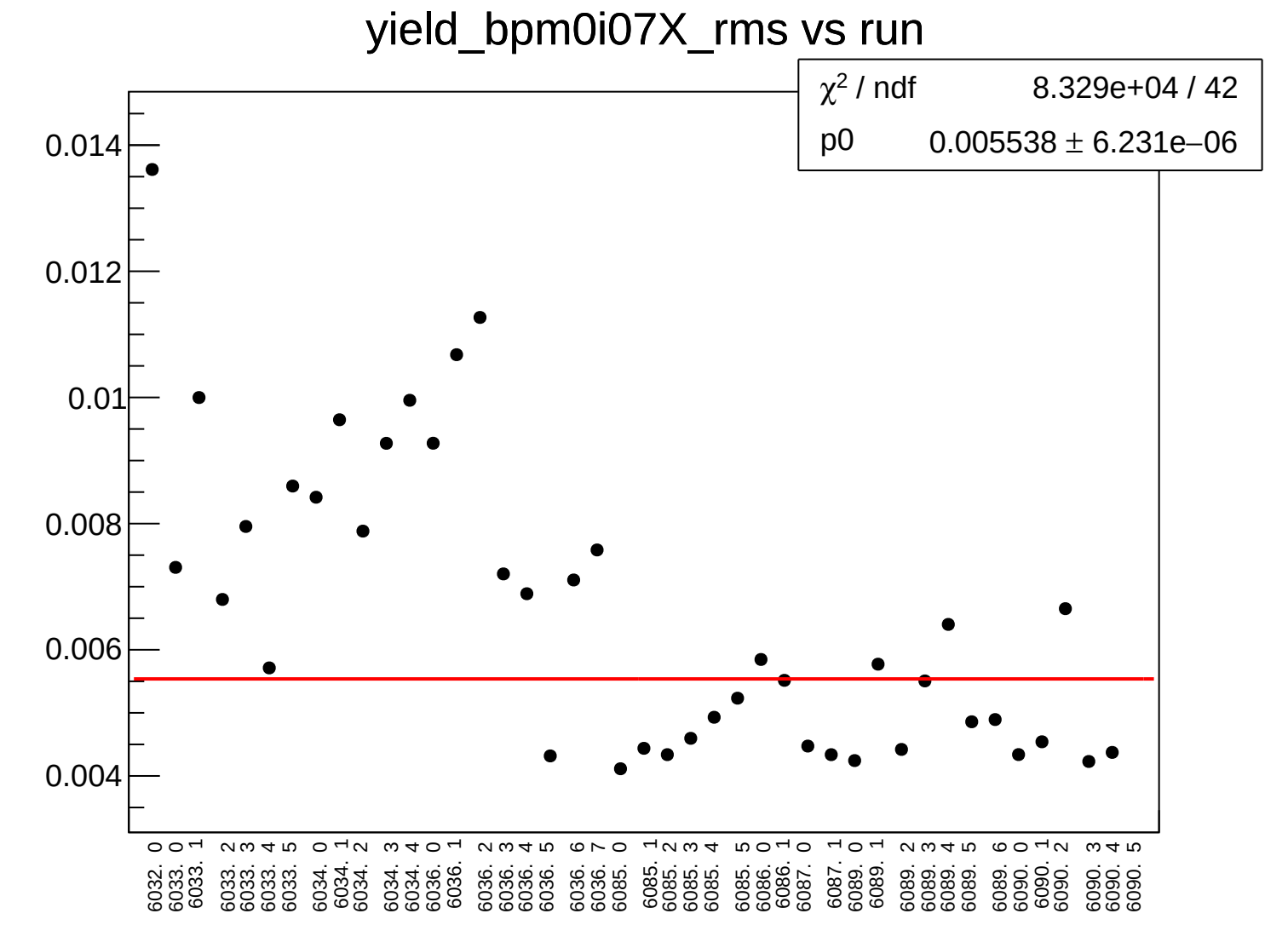

yield_bpm0i05X_rms vs run
χ² / ndf 8.851e+04 / 42
p0 0.00958 ± 1.082e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

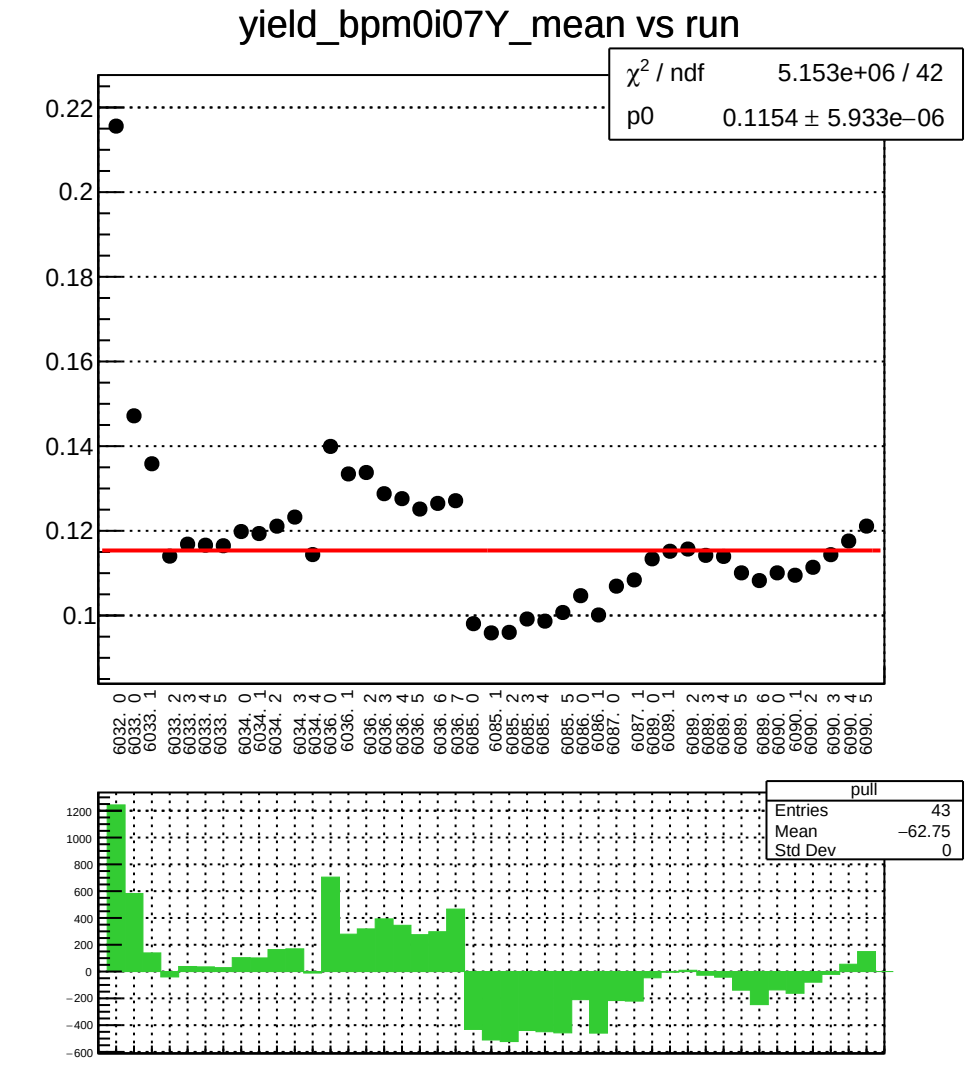

yield_bpm0i05Y_mean vs run
χ² / ndf 3.809e+06 / 42
p0 −1.915 ± 9.82e−06
−1.75
−1.8
−1.85
−1.9
−1.95
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −22.16
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 4.958
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

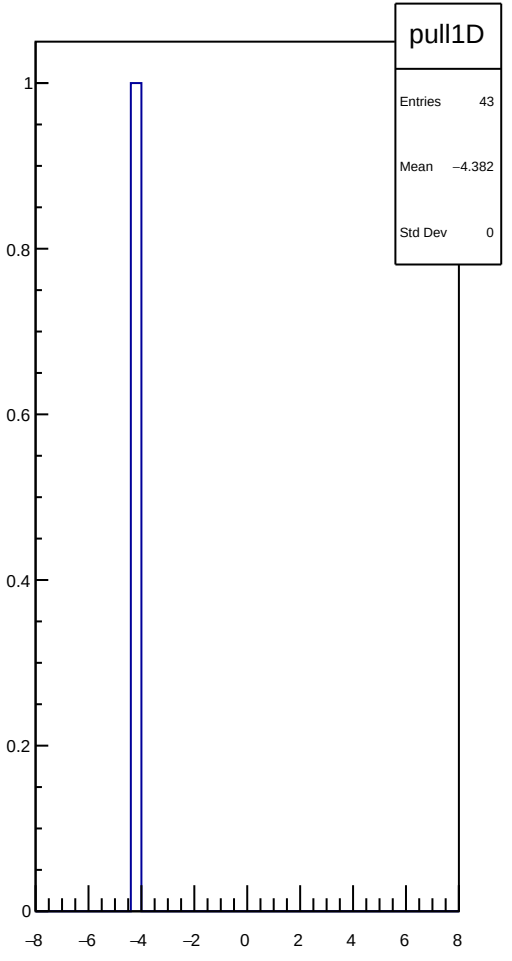

yield_bpm0i05Y_rms vs run
χ² / ndf 5.627e+04 / 42
p0 0.006275 ± 6.943e−06
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

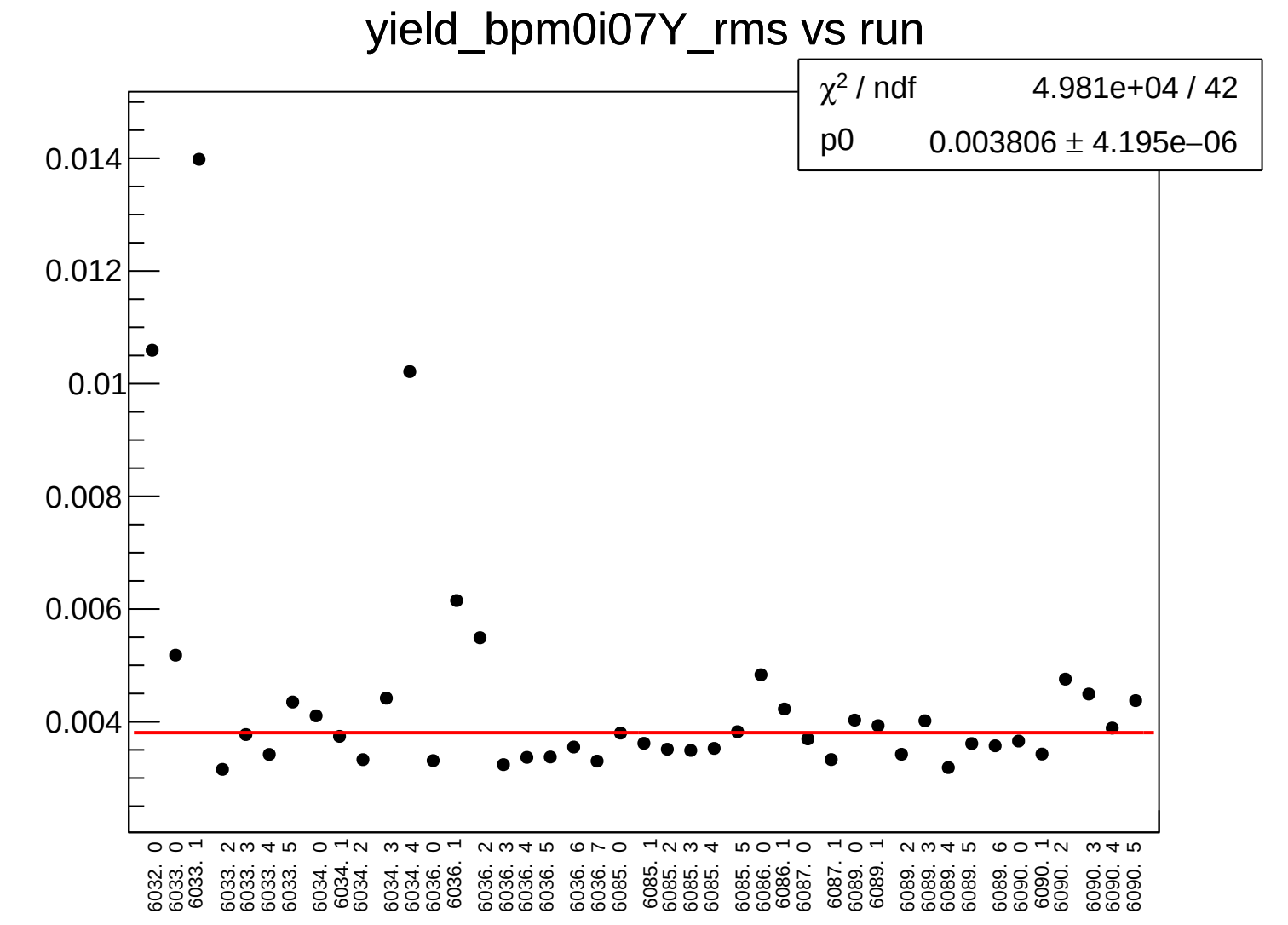

yield_bpm0i07X_mean vs run
χ² / ndf 1.636e+06 / 42
p0 −0.4888 ± 8.813e−06
−0.46
−0.47
−0.48
−0.49
−0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.04
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

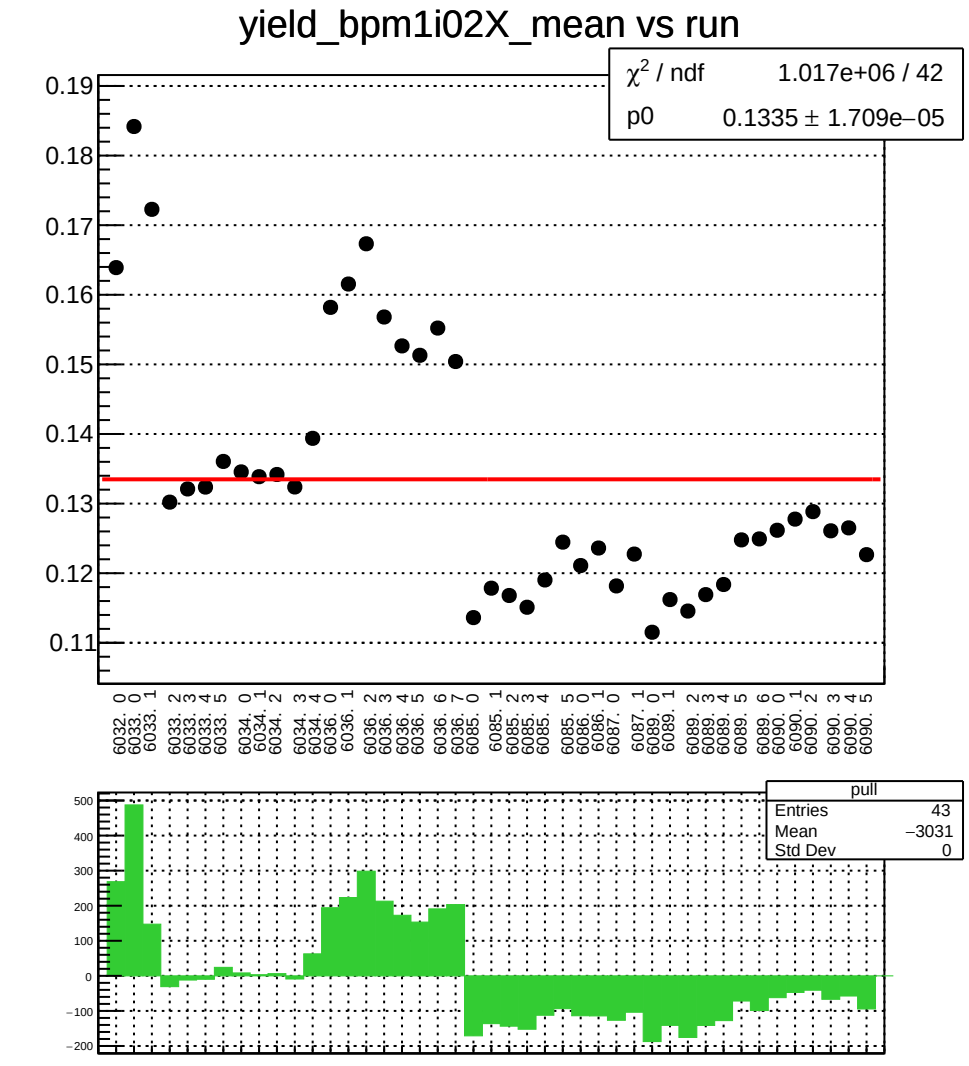

pull1D
Entries 43
Mean −7.438
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

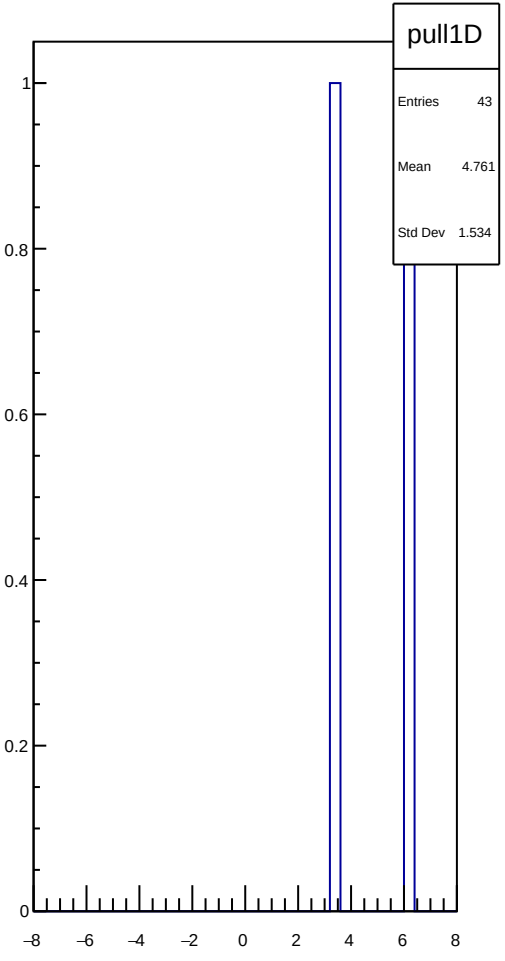

yield_bpm0i07X_rms vs run
χ² / ndf 8.329e+04 / 42
p0 0.005538 ± 6.231e−06
0.014
0.012
0.01
0.008
0.006
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

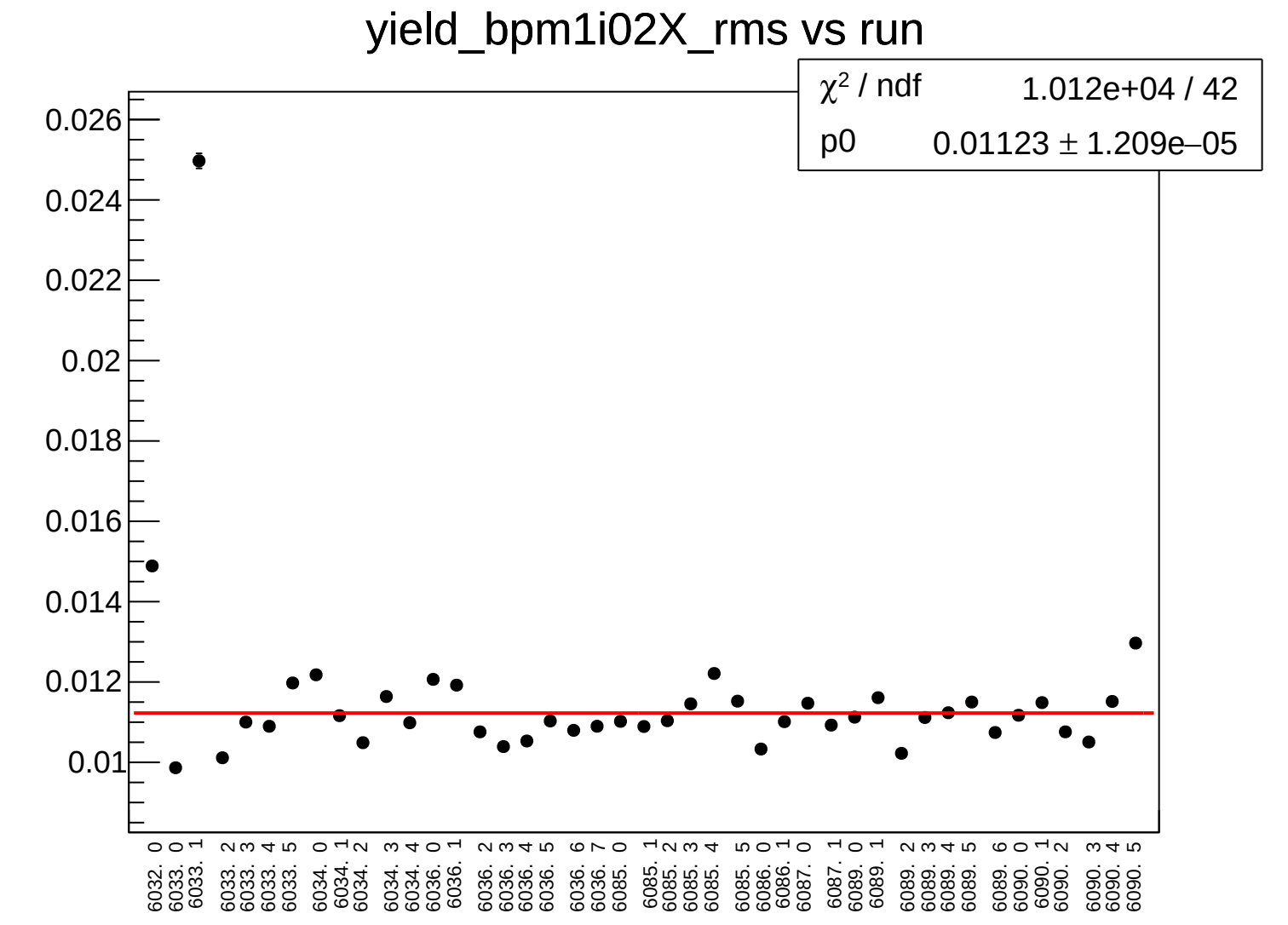

yield_bpm0i07Y_mean vs run
χ² / ndf 5.153e+06 / 42
p0 0.1154 ± 5.933e−06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −62.75
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

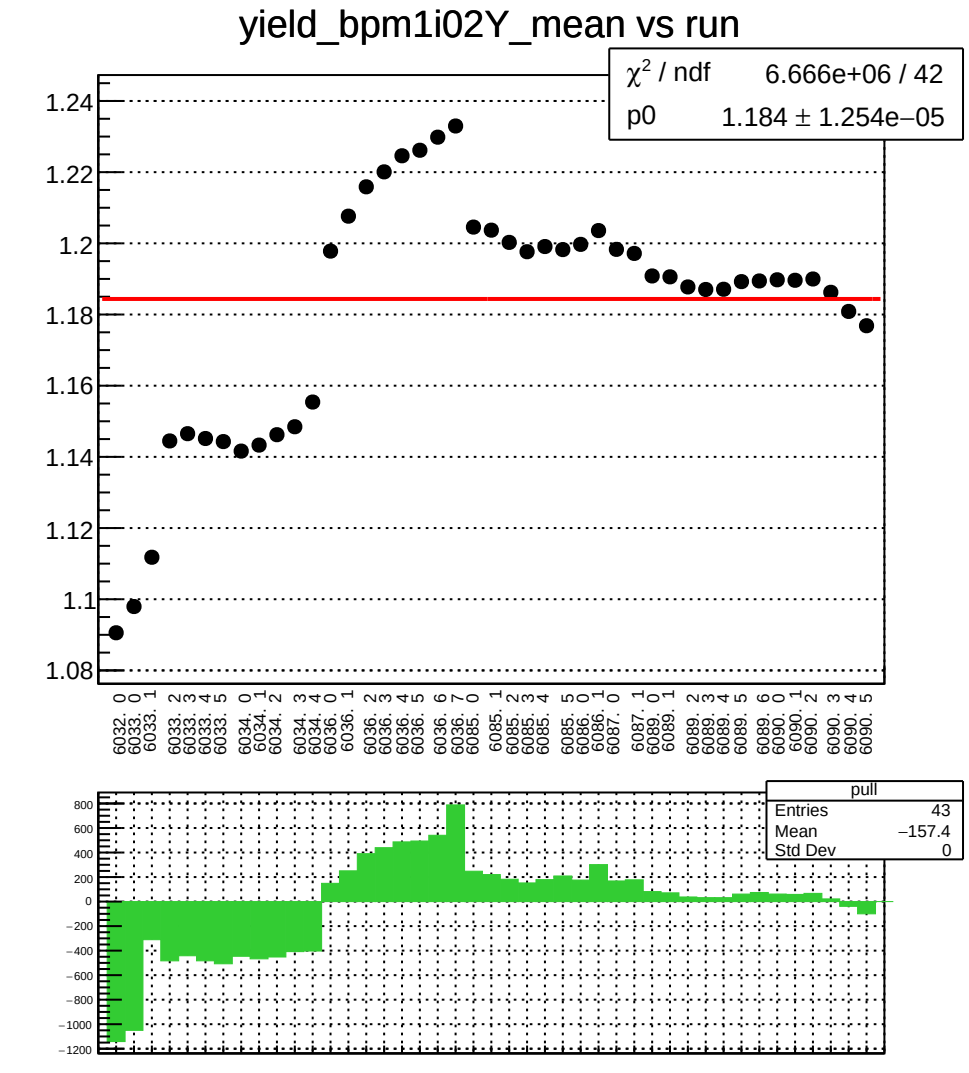

pull1D
Entries 43
Mean −4.382
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

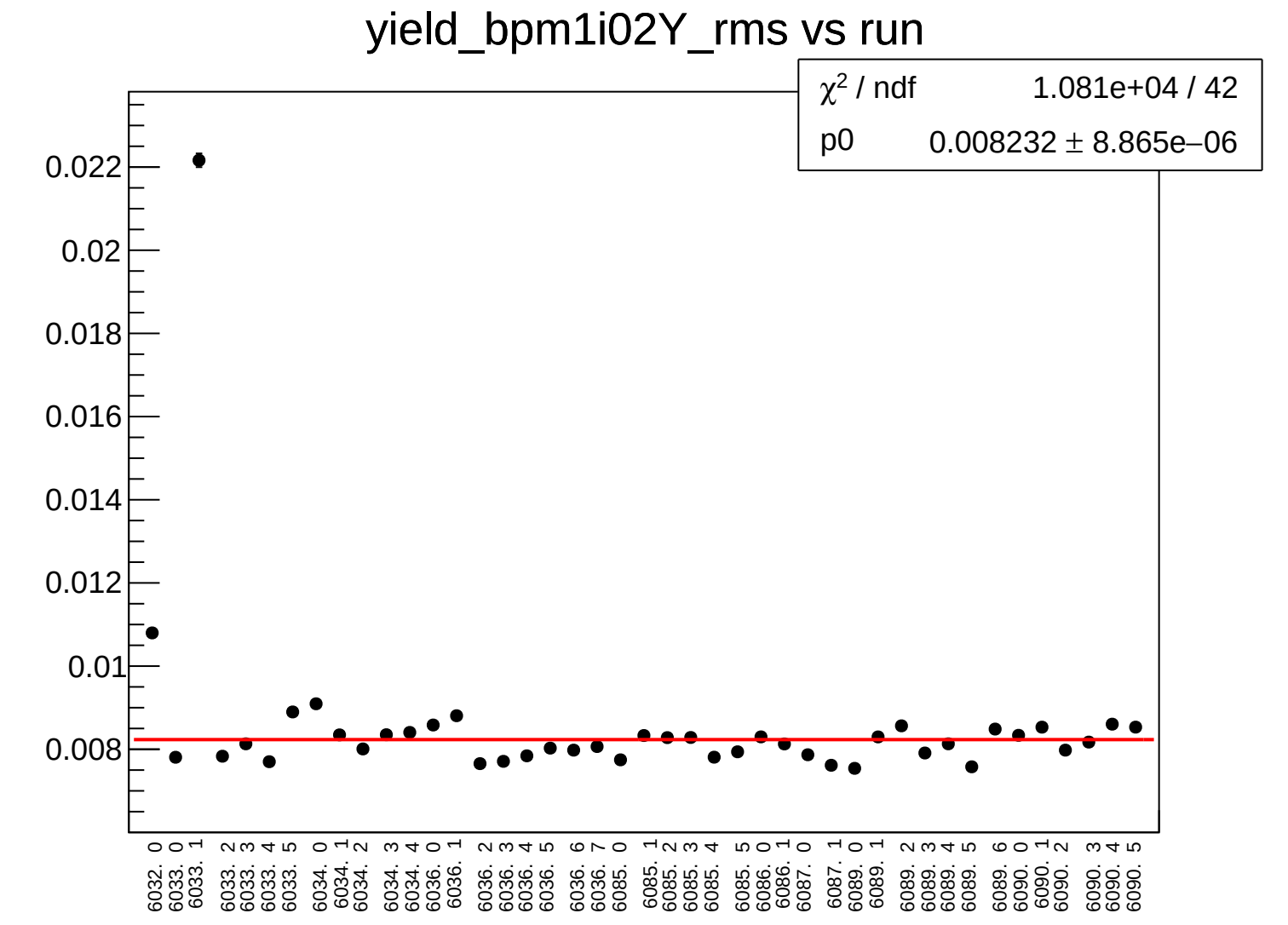

yield_bpm0i07Y_rms vs run
χ² / ndf 4.981e+04 / 42
p0 0.003806 ± 4.195e−06
0.014
0.012
0.01
0.008
0.006
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

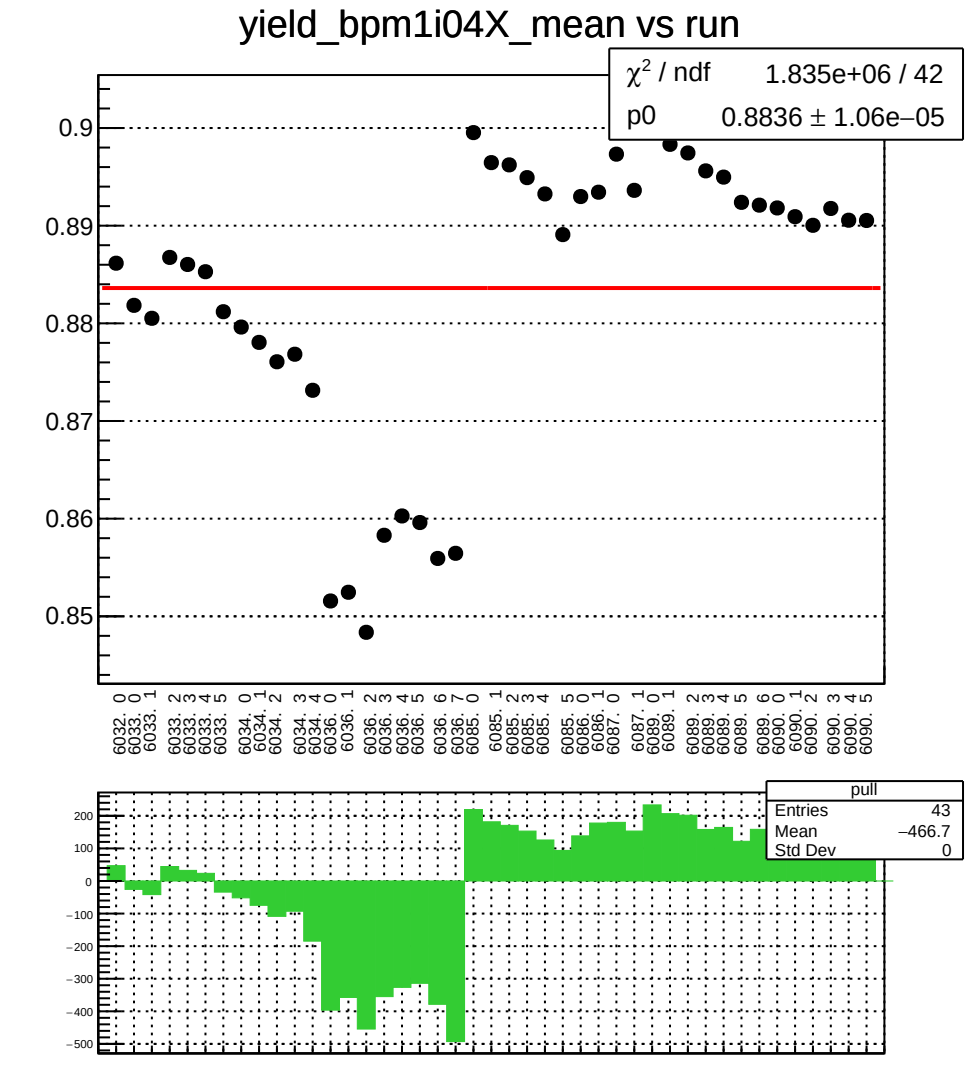

yield_bpm1i02X_mean vs run
χ² / ndf 1.017e+06 / 42
p0 0.1335 ± 1.709e−05
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −3031
Std Dev 0
500
400
300
200
100
0
−100
−200

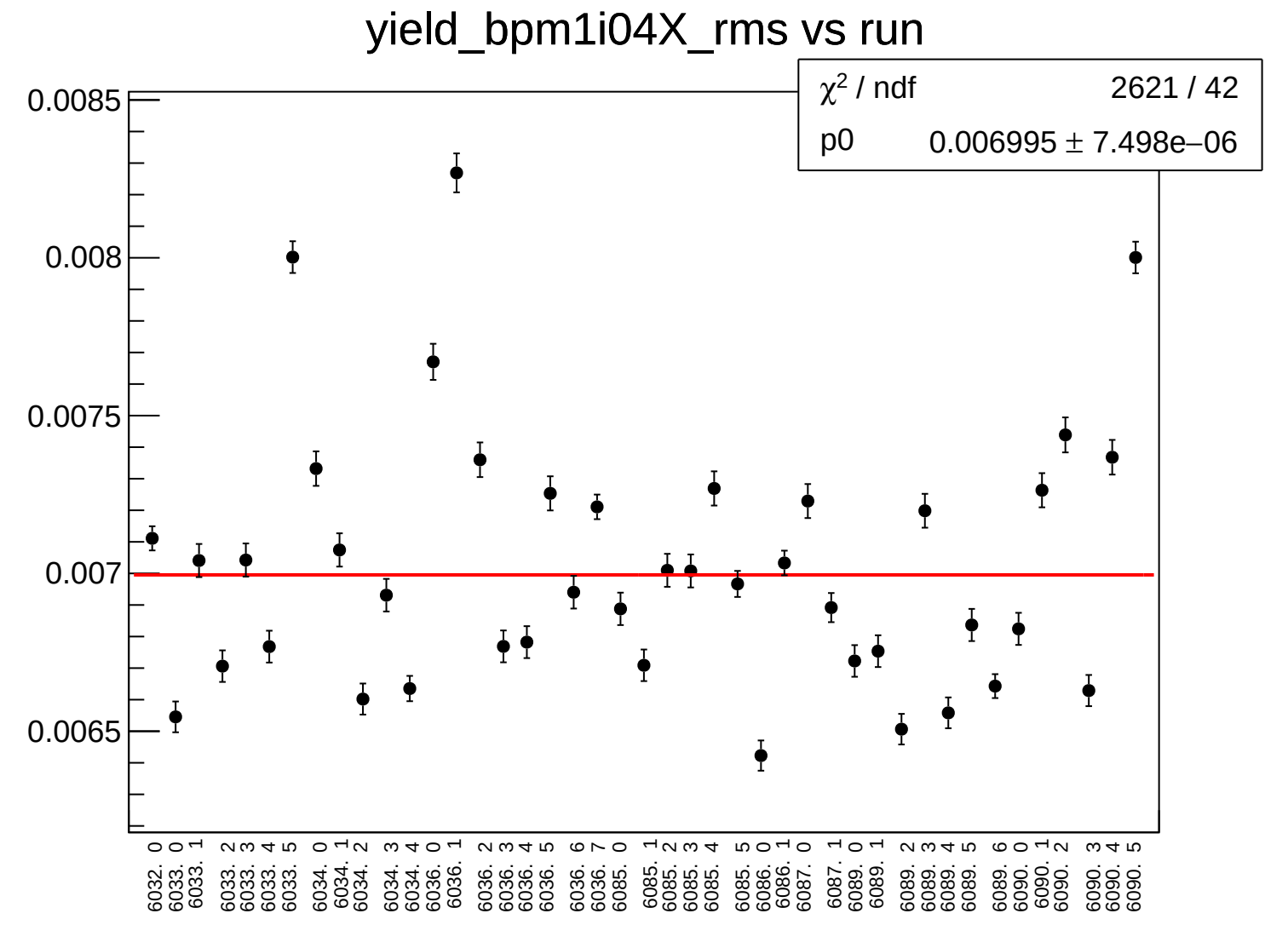

pull1D
Entries 43
Mean 4.761
Std Dev 1.534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

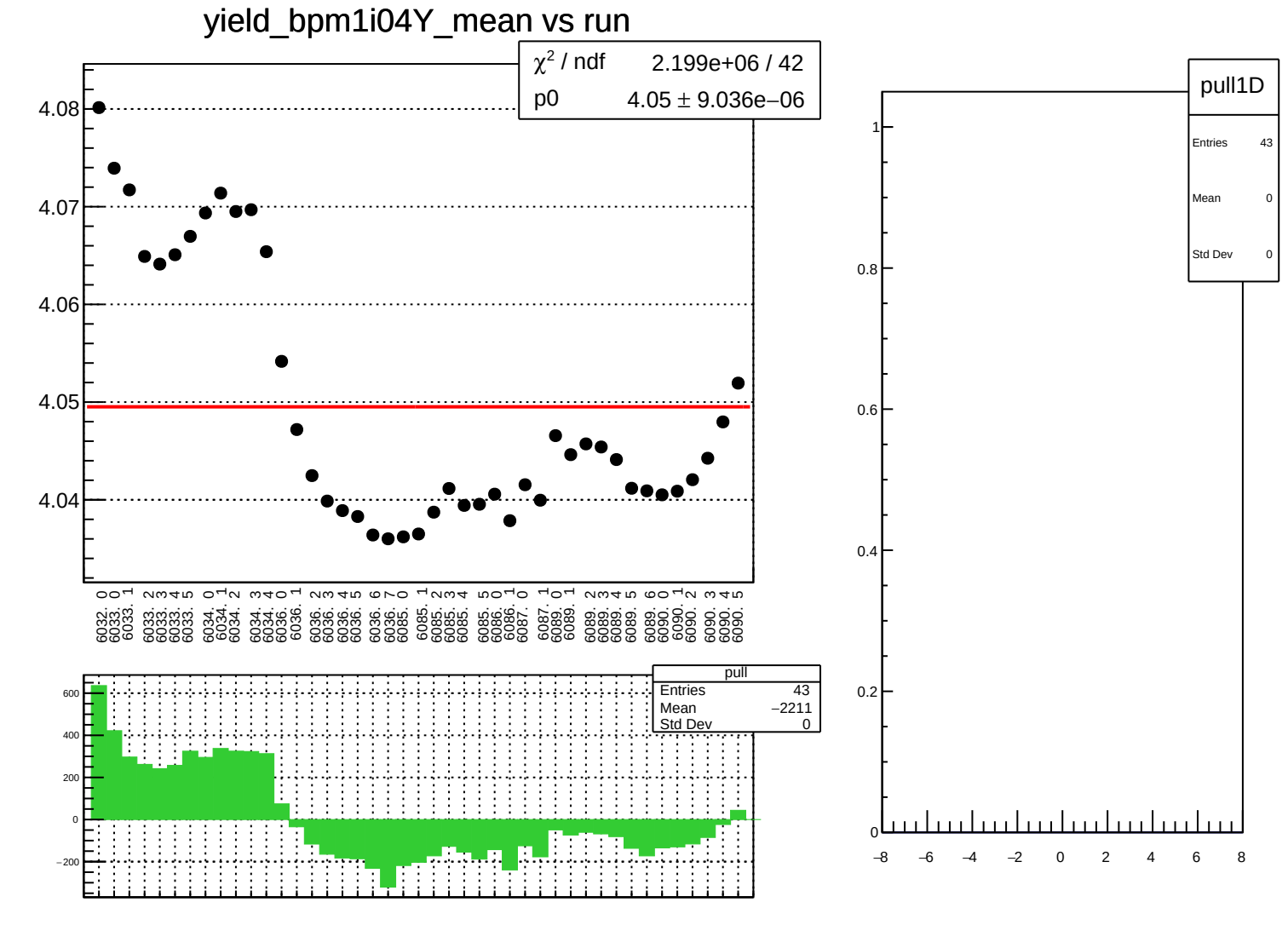

yield_bpm1i02X_rms vs run
χ² / ndf 1.012e+04 / 42
p0 0.01123 ± 1.209e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

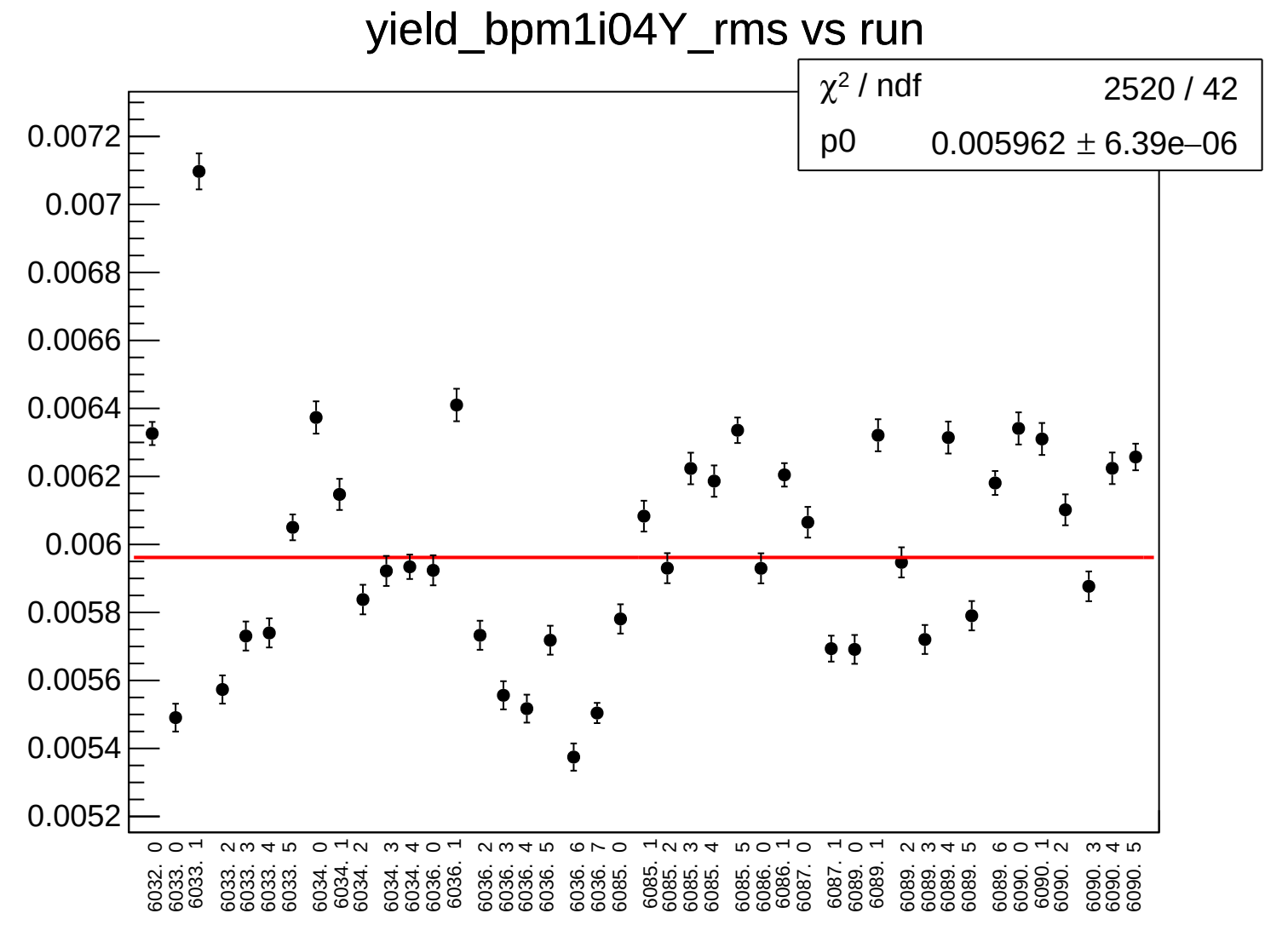

yield_bpm1i02Y_mean vs run
χ² / ndf 6.666e+06 / 42
p0 1.184 ± 1.254e−05
1.24
1.22
1.2
1.18
1.16
1.14
1.12
1.1
1.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −157.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

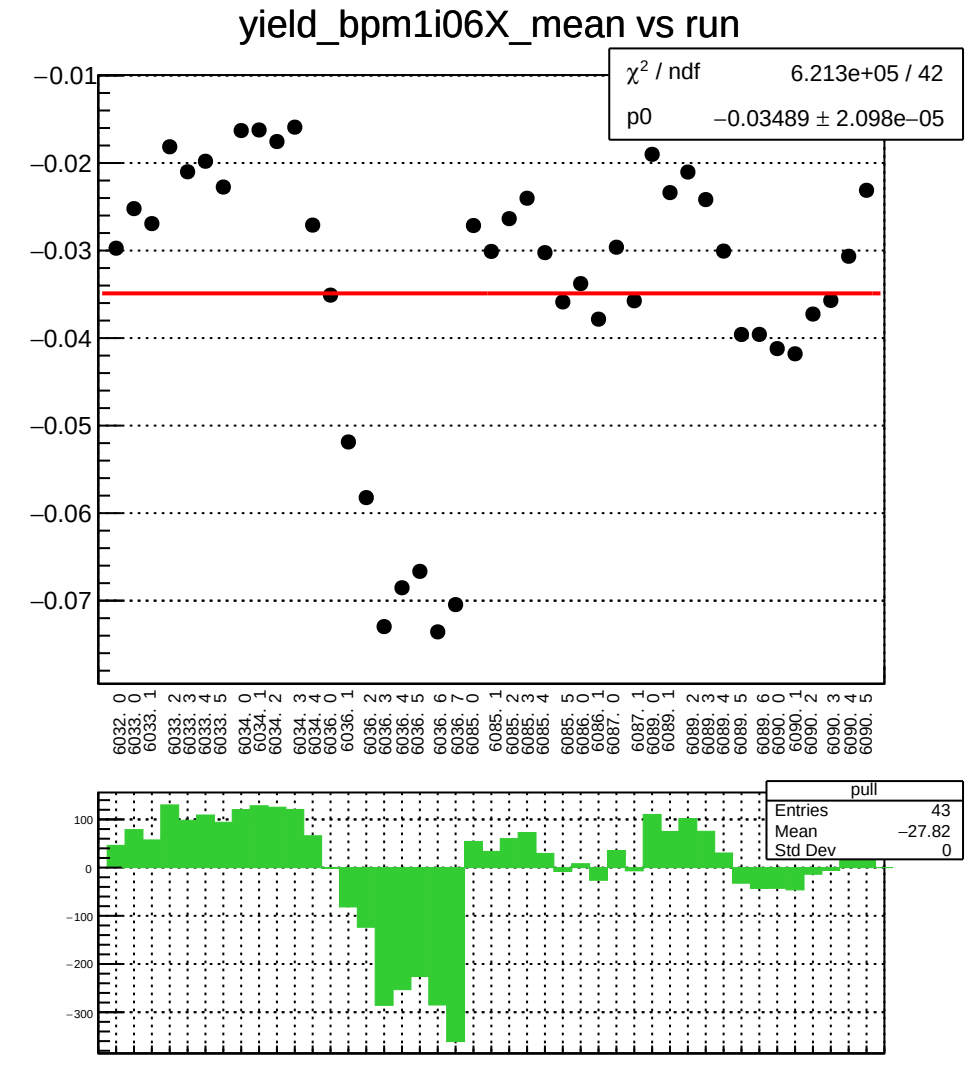

yield_bpm1i02Y_rms vs run
χ² / ndf 1.081e+04 / 42
p0 0.008232 ± 8.865e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

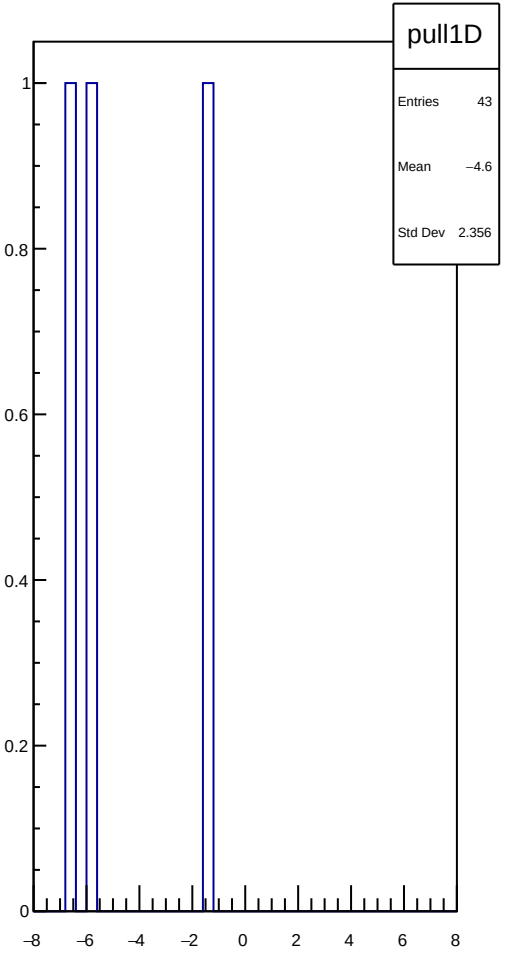

yield_bpm1i04X_mean vs run
χ² / ndf 1.835e+06 / 42
p0 0.8836 ± 1.06e−05
0.9
0.89
0.88
0.87
0.86
0.85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −466.7
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

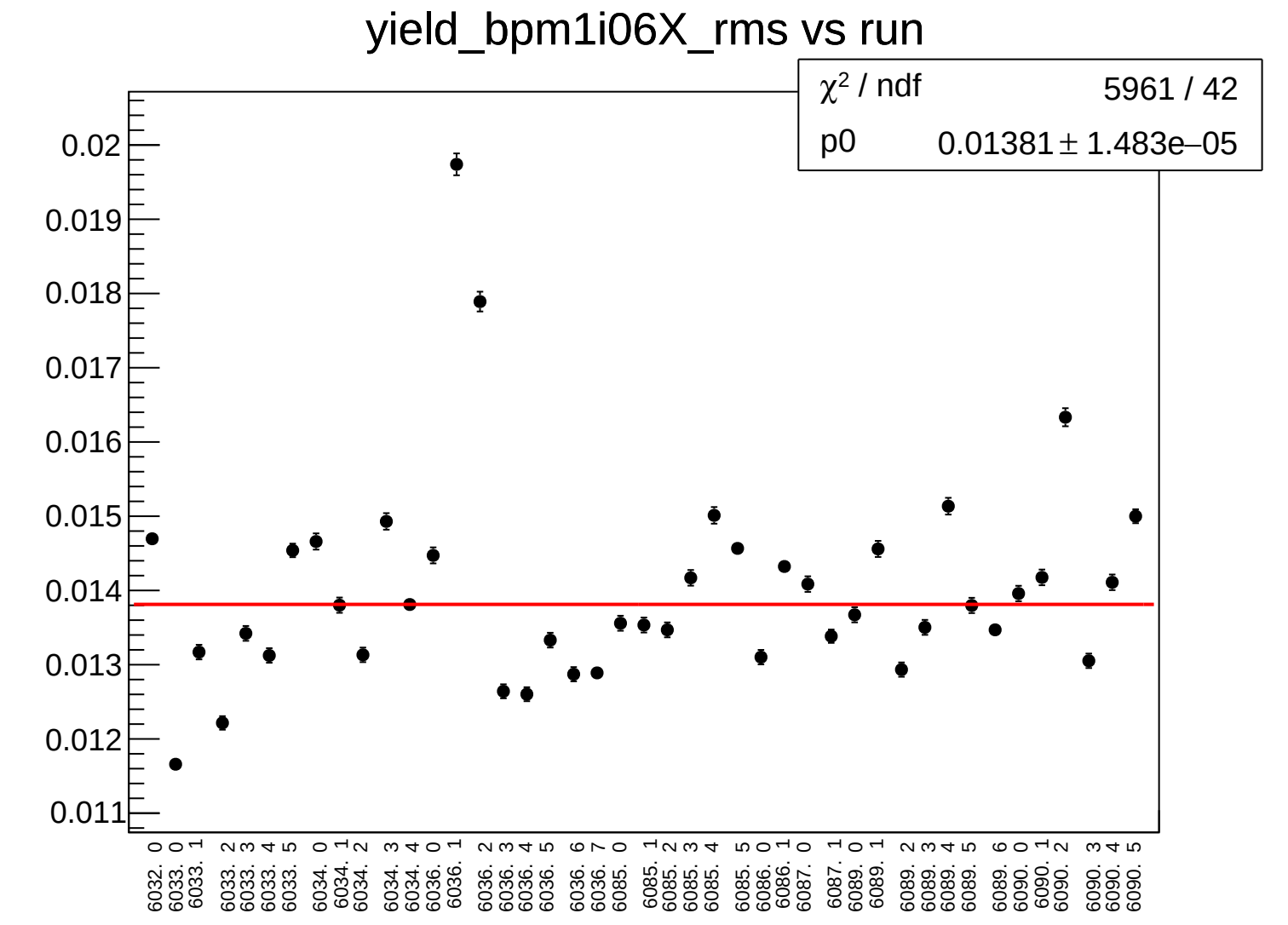

yield_bpm1i04X_rms vs run
χ² / ndf 2621 / 42
p0 0.006995 ± 7.498e−06
0.0085
0.008
0.0075
0.007
0.0065
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

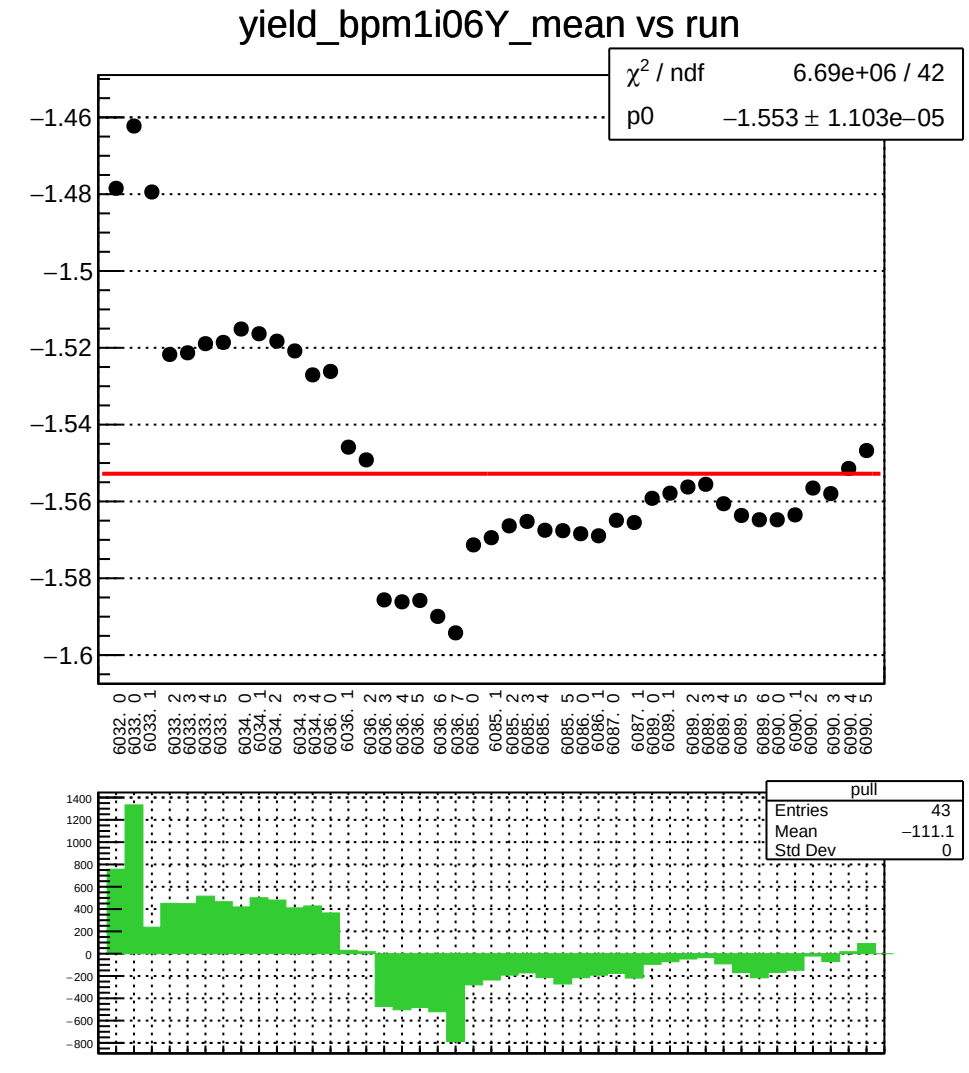

yield_bpm1i04Y_mean vs run
χ² / ndf 2.199e+06 / 42
p0 4.05 ± 9.036e−06
4.08
4.07
4.06
4.05
4.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2211
Std Dev 0
600
400
200
0
−200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

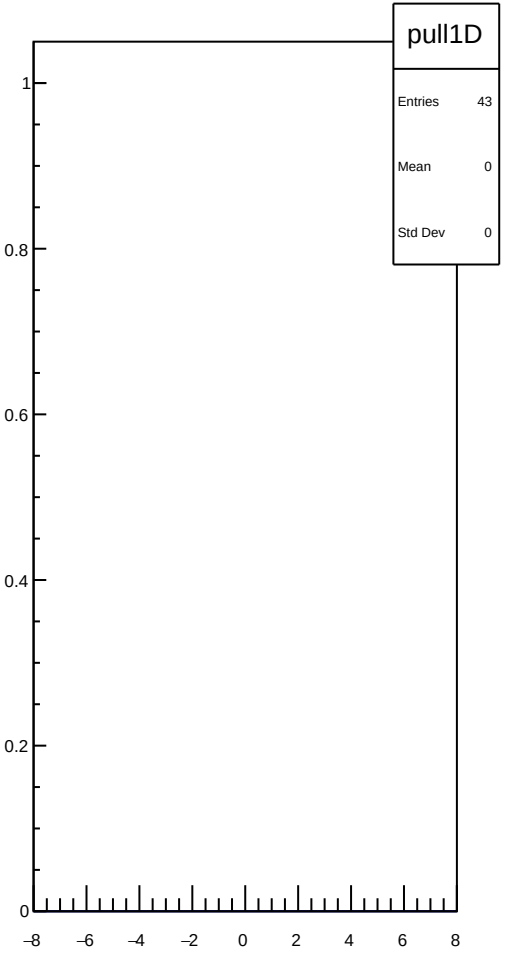

yield_bpm1i04Y_rms vs run
χ² / ndf 2520 / 42
p0 0.005962 ± 6.39e–06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

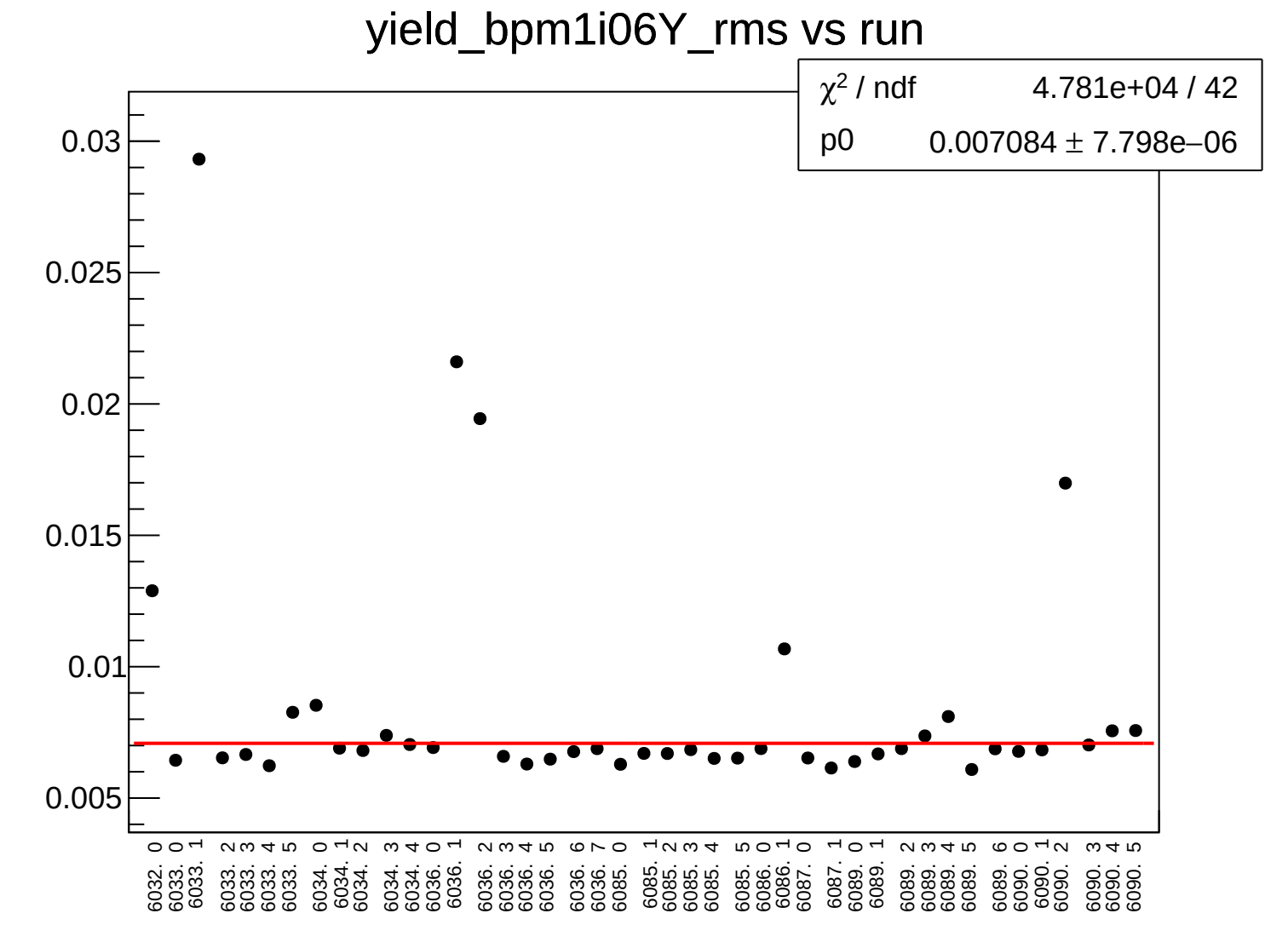

yield_bpm1i06X_mean vs run
χ² / ndf 6.213e+05 / 42
p0 −0.03489 ± 2.098e−05
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.82
Std Dev 0
100
0
−100
−200
−300

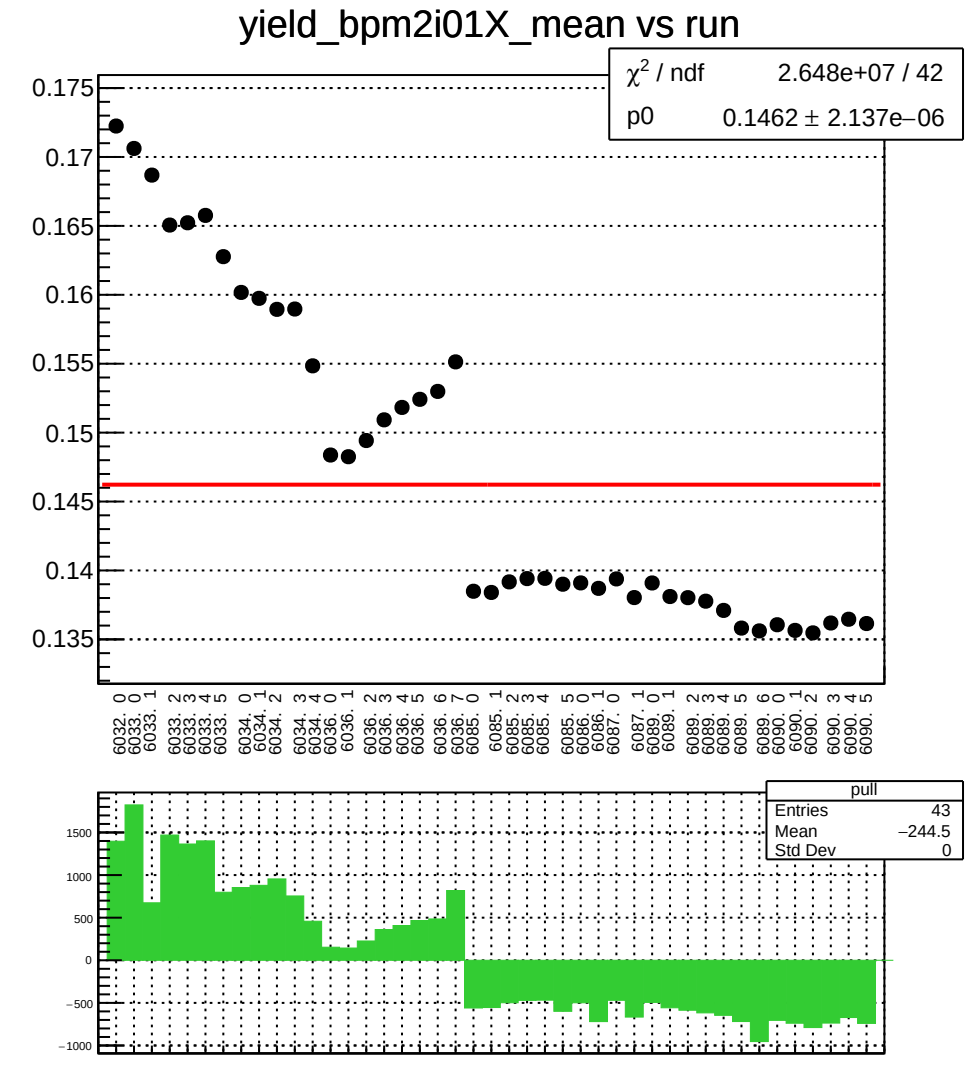

pull1D
Entries 43
Mean −4.6
Std Dev 2.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

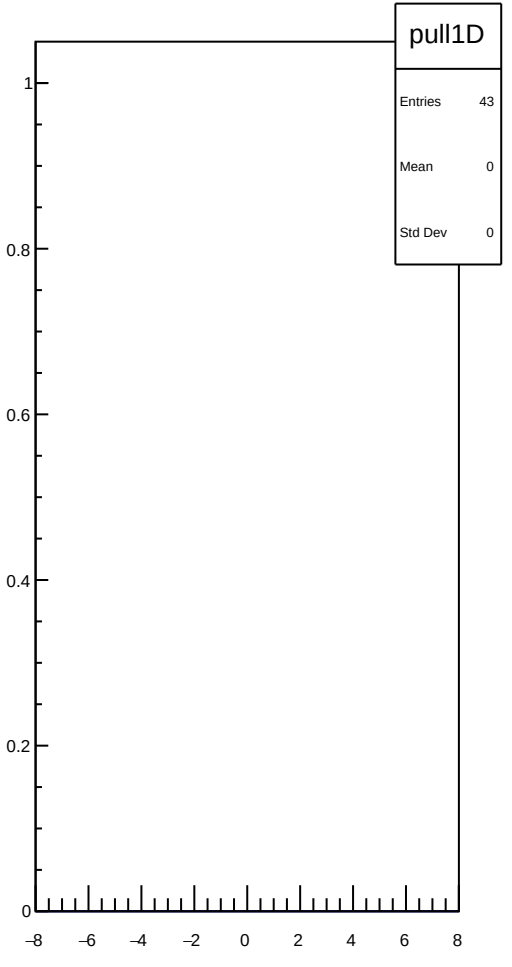

yield_bpm1i06X_rms vs run
χ² / ndf 5961 / 42
p0 0.01381 ± 1.483e–05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

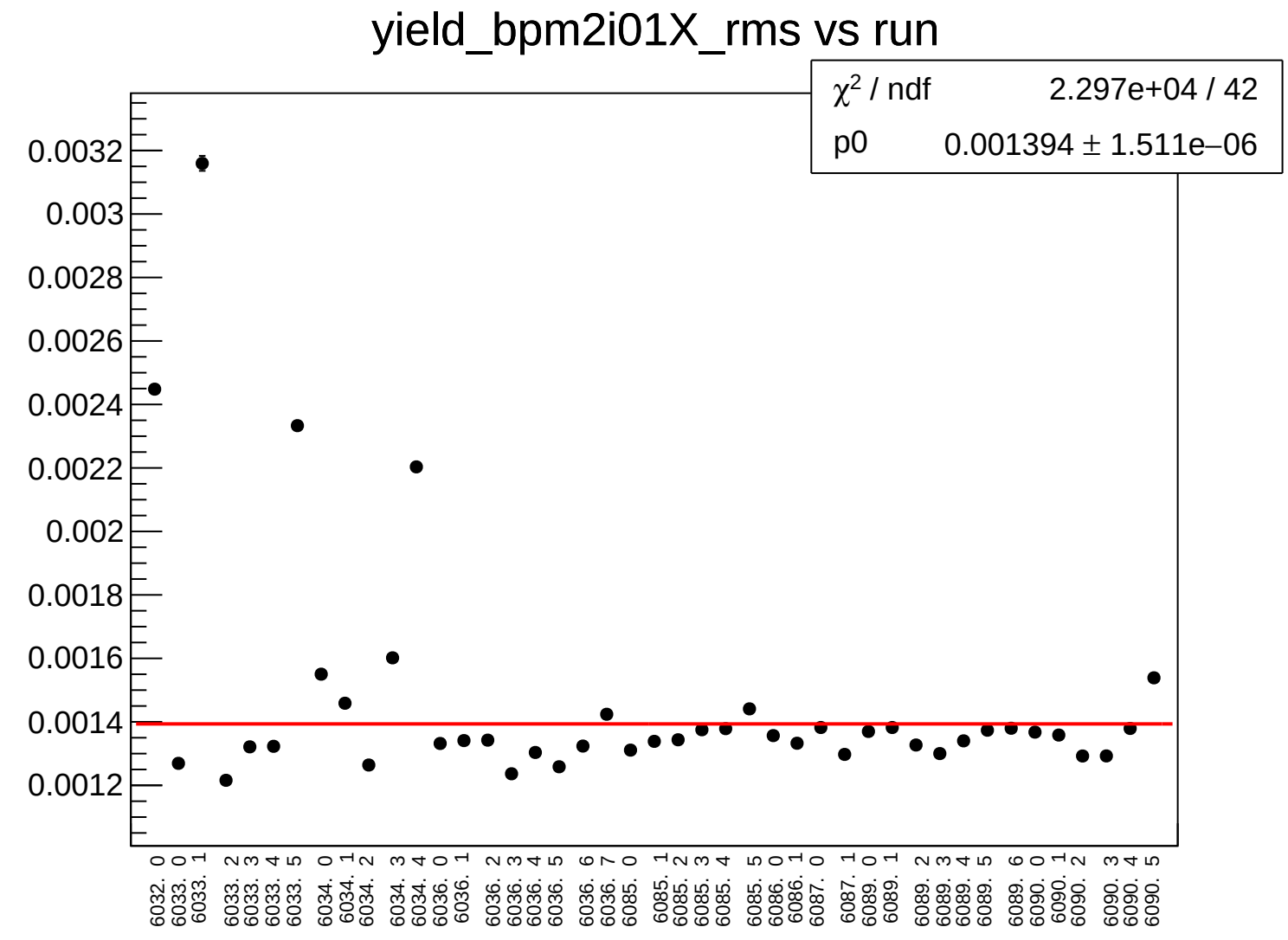

yield_bpm1i06Y_mean vs run
χ² / ndf 6.69e+06 / 42
p0 −1.553 ± 1.103e−05
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
−1.58
−1.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −111.1
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

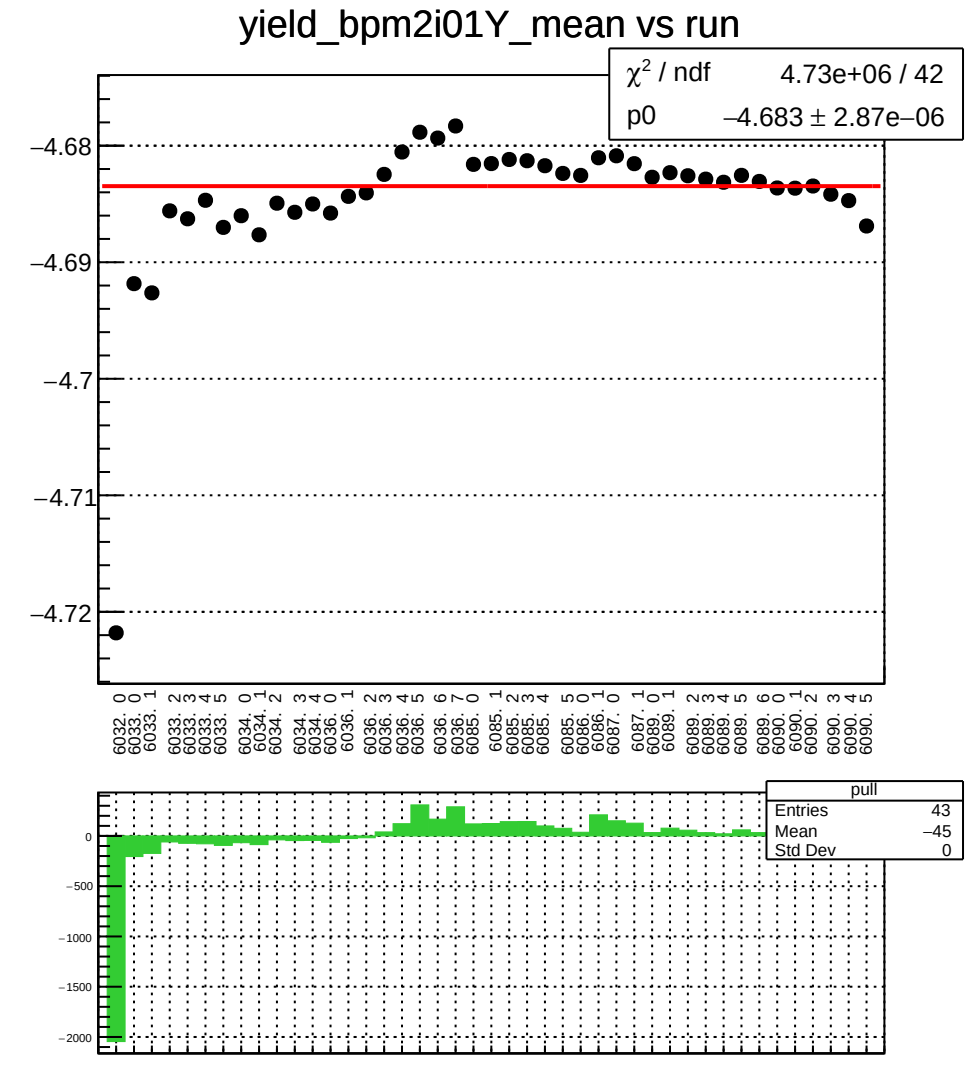

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

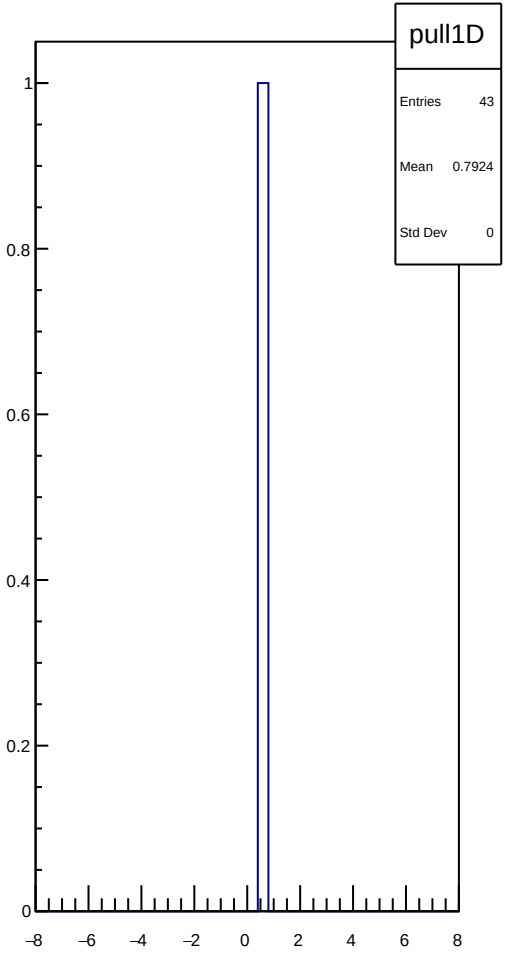

yield_bpm1i06Y_rms vs run
χ² / ndf 4.781e+04 / 42
p0 0.007084 ± 7.798e−06
0.03
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

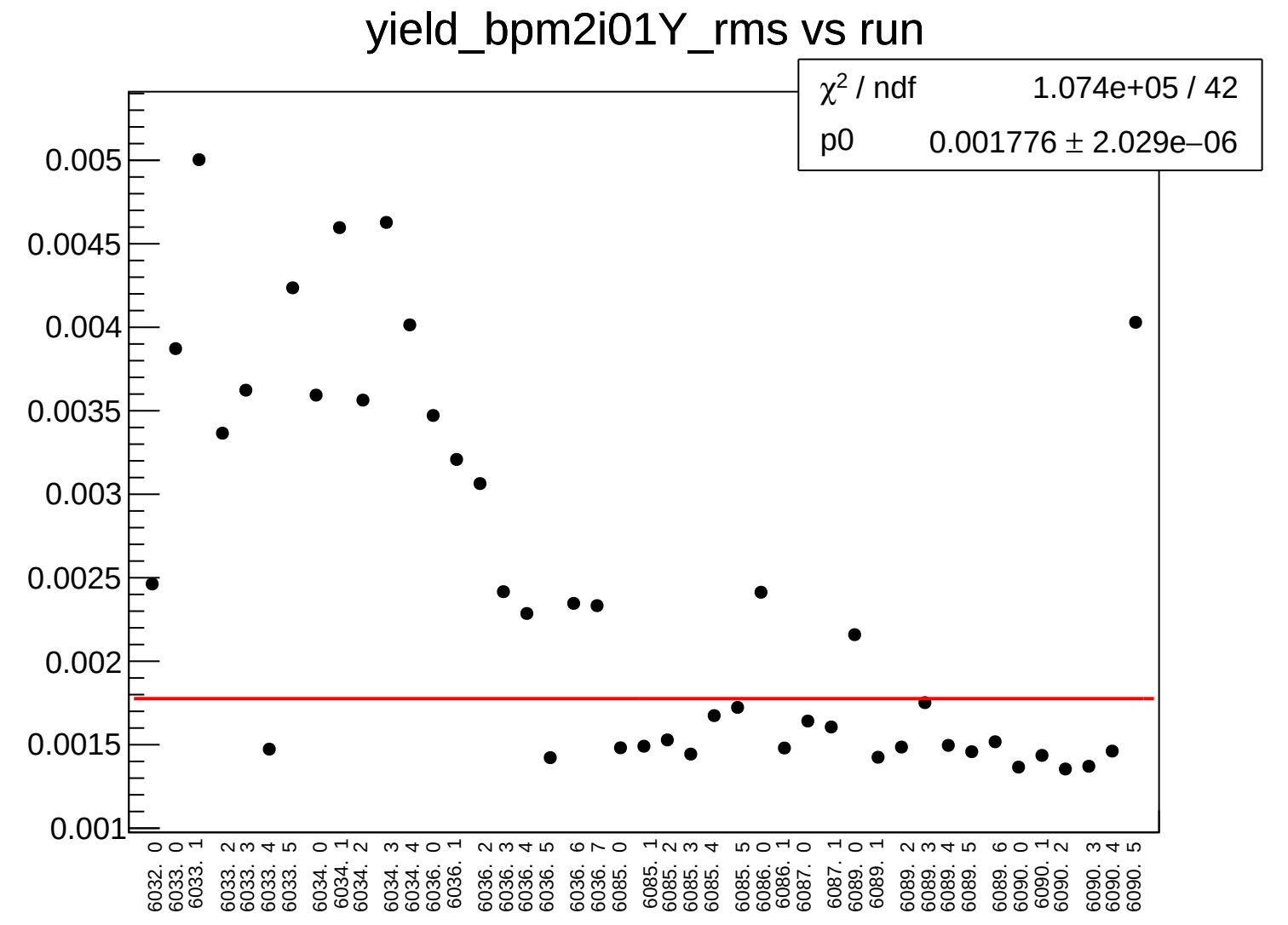

yield_bpm2i01X_mean vs run
χ² / ndf 2.648e+07 / 42
p0 0.1462 ± 2.137e−06
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −244.5
Std Dev 0
1500
1000
500
0
−500
−1000

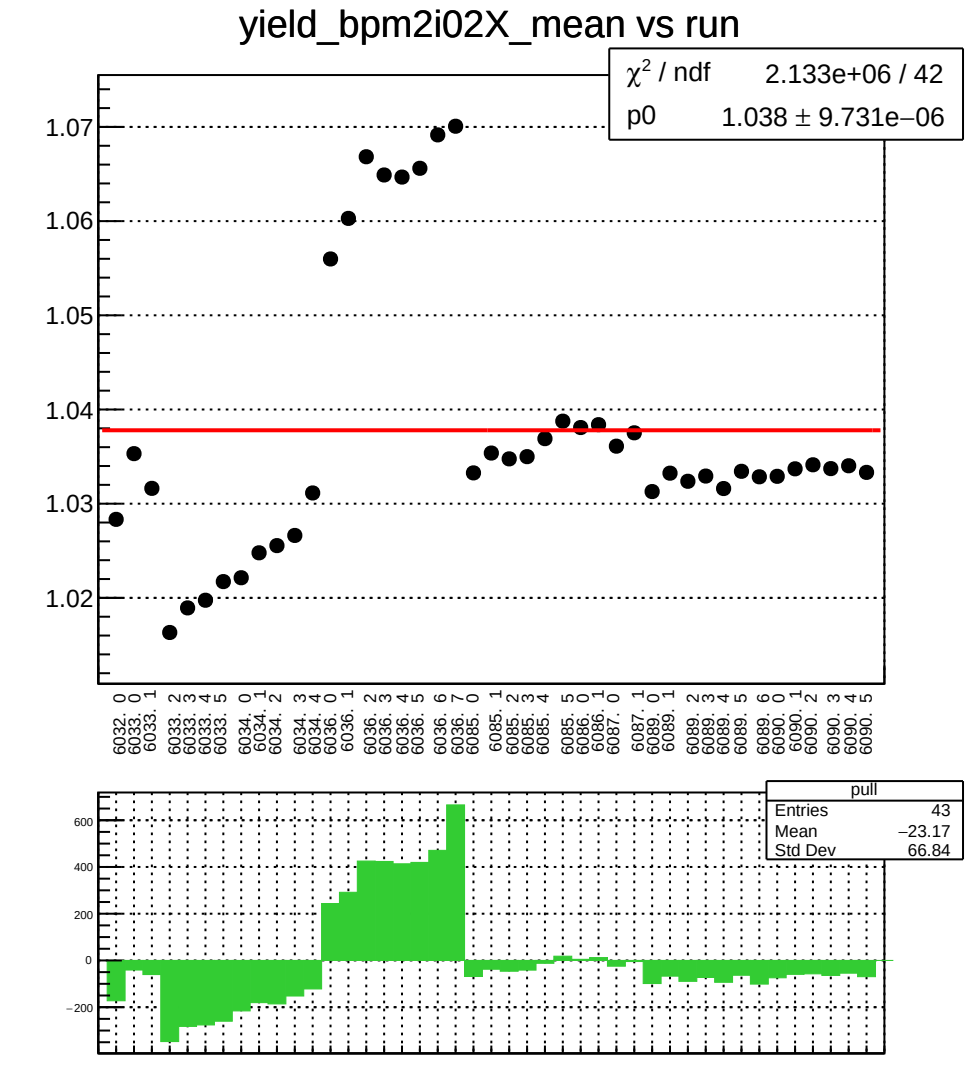

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

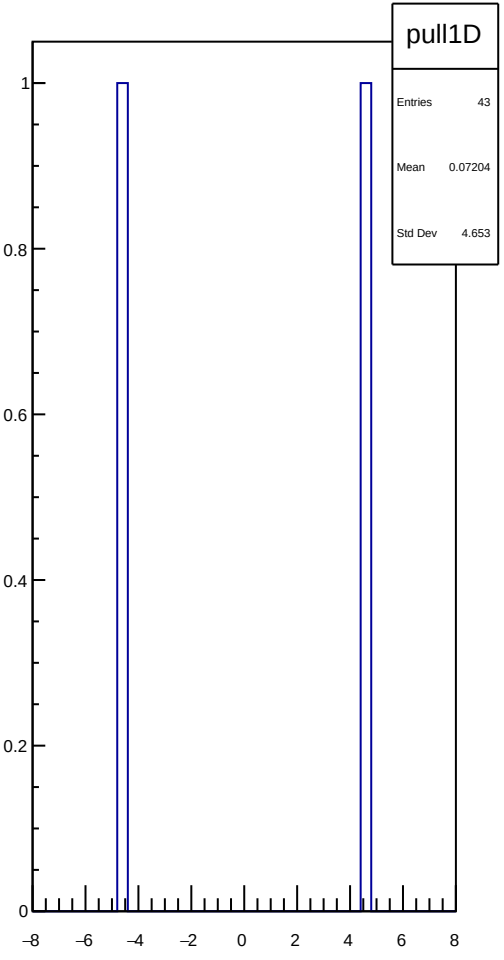

yield_bpm2i01X_rms vs run
χ² / ndf 2.297e+04 / 42
p0 0.001394 ± 1.511e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

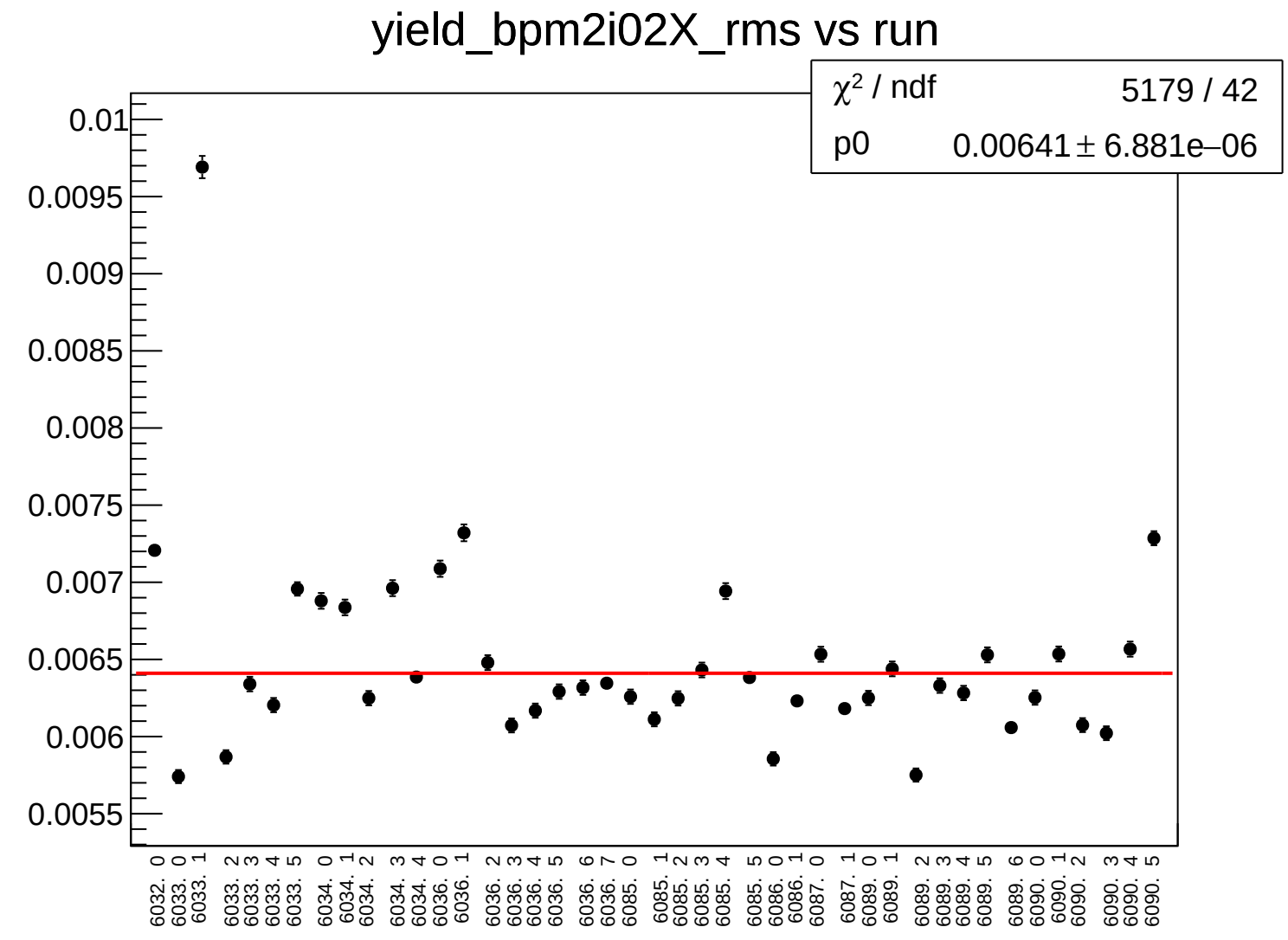

yield_bpm2i01Y_mean vs run
χ² / ndf 4.73e+06 / 42
p0 −4.683 ± 2.87e−06
−4.68
−4.69
−4.7
−4.71
−4.72
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −45
Std Dev 0
0
−500
−1000
−1500
−2000

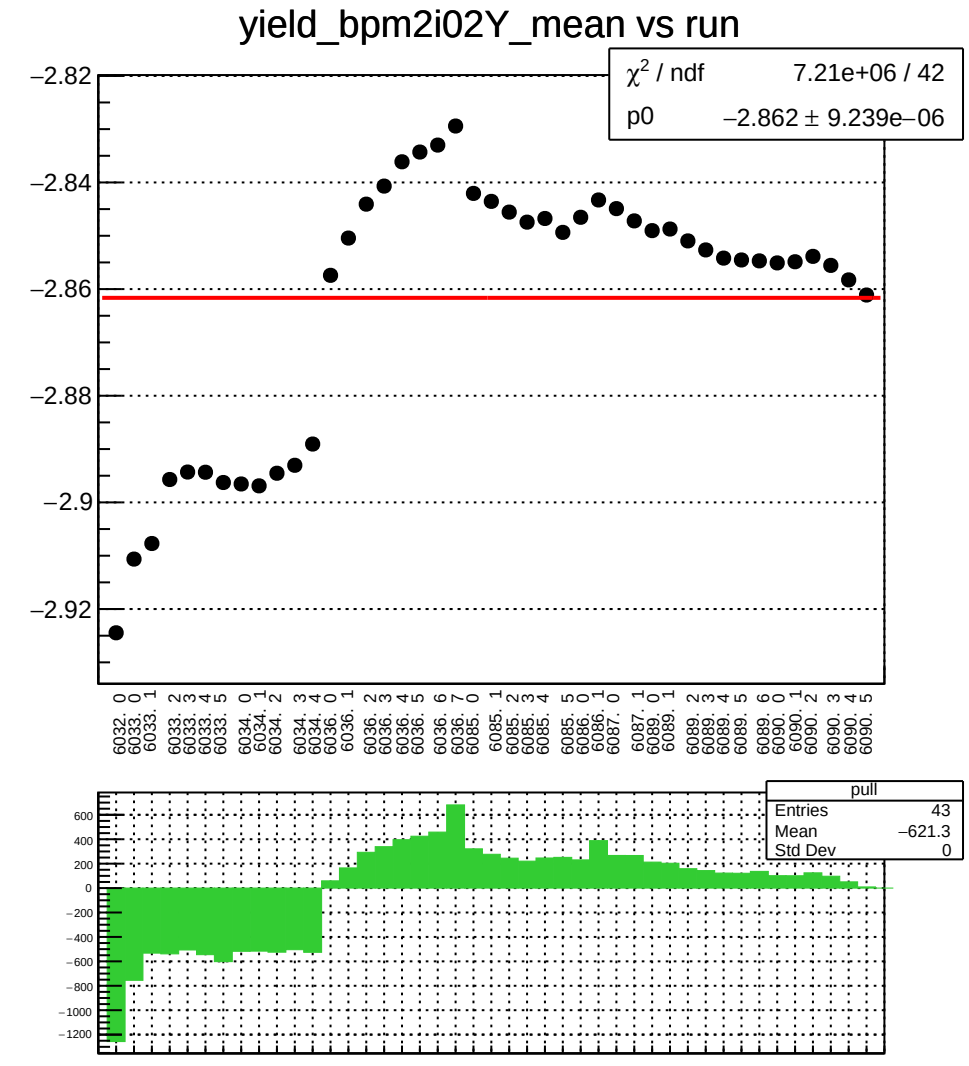

pull1D
Entries 43
Mean 0.7924
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

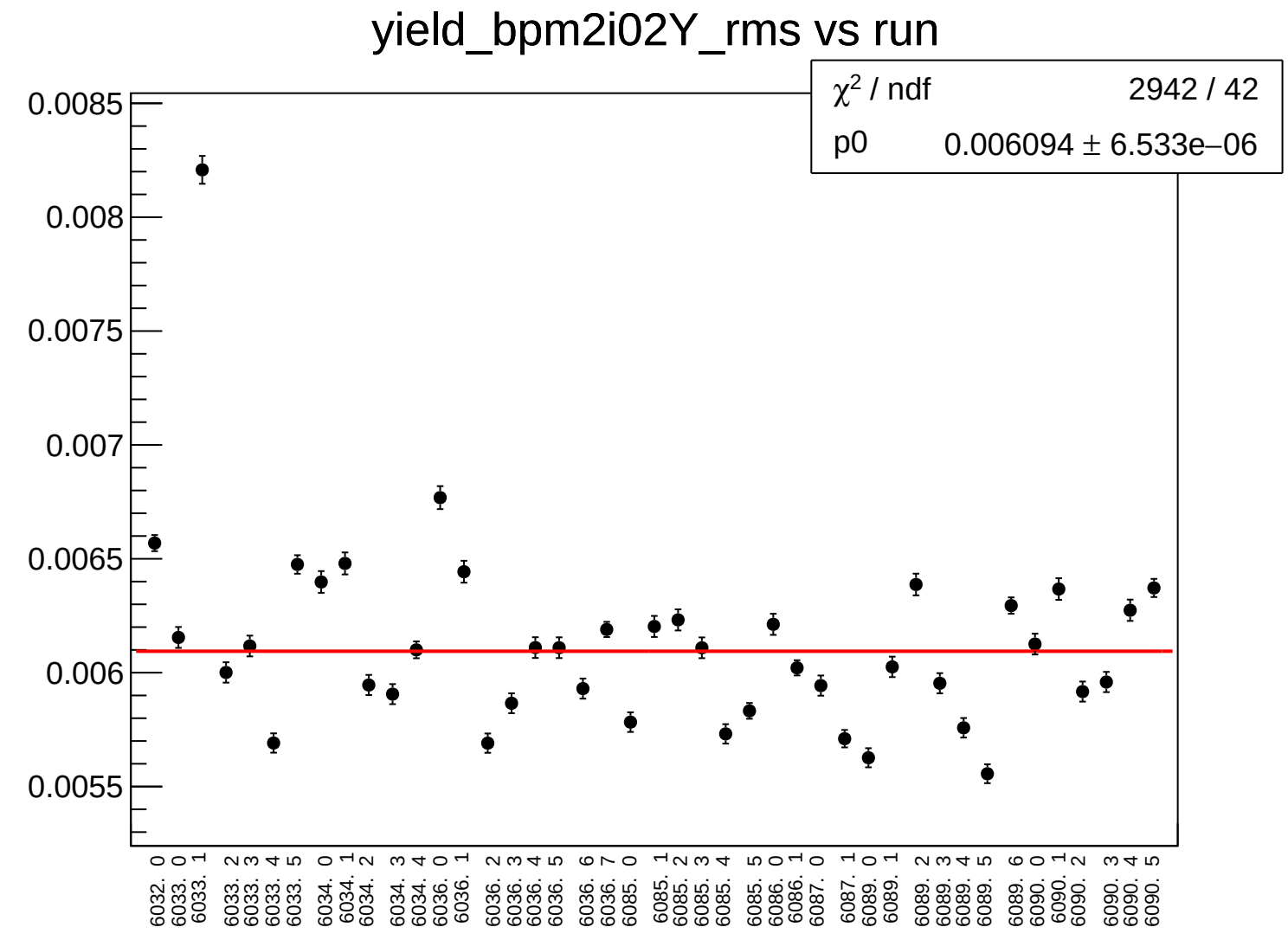

yield_bpm2i01Y_rms vs run
χ² / ndf 1.074e+05 / 42
p0 0.001776 ± 2.029e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

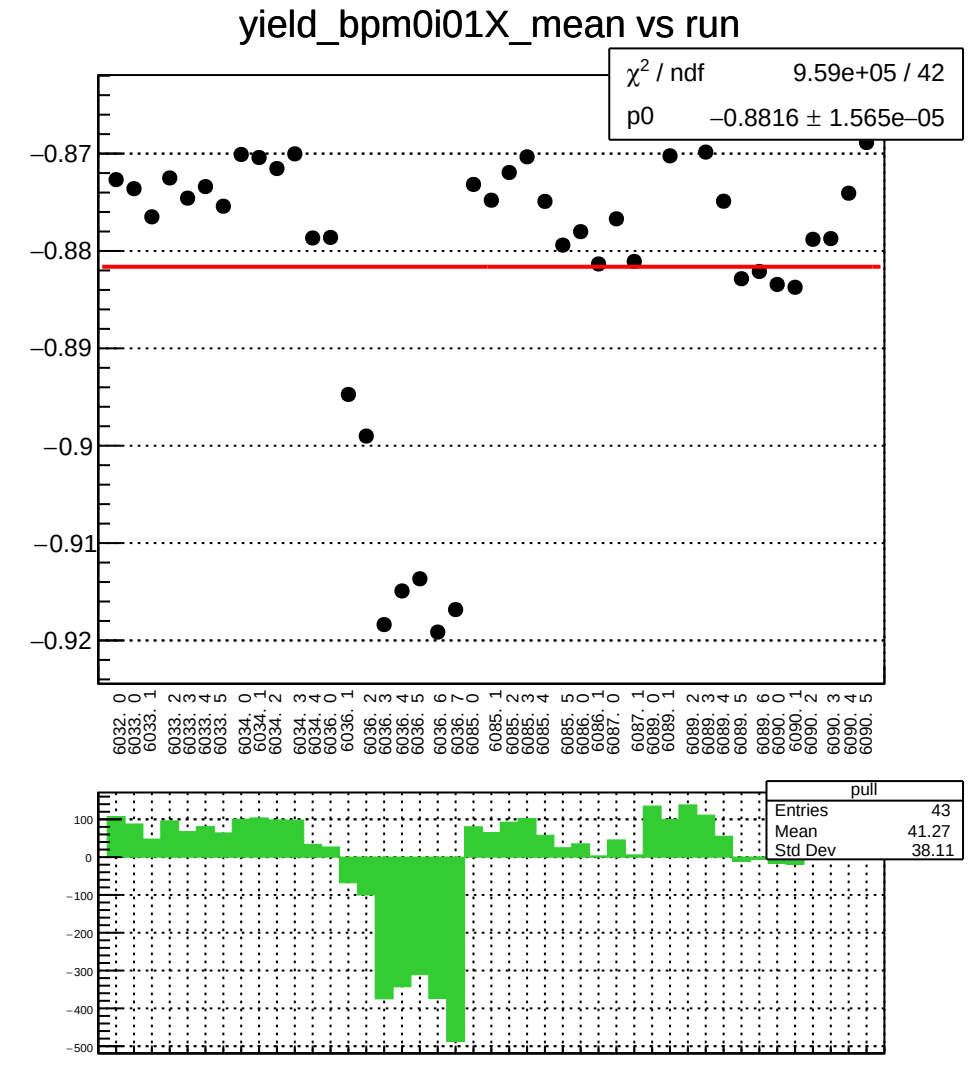

yield_bpm2i02X_mean vs run
χ² / ndf 2.133e+06 / 42
p0 1.038 ± 9.731e−06
1.07
1.06
1.05
1.04
1.03
1.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −23.17
Std Dev 66.84
600
400
200
0
−200

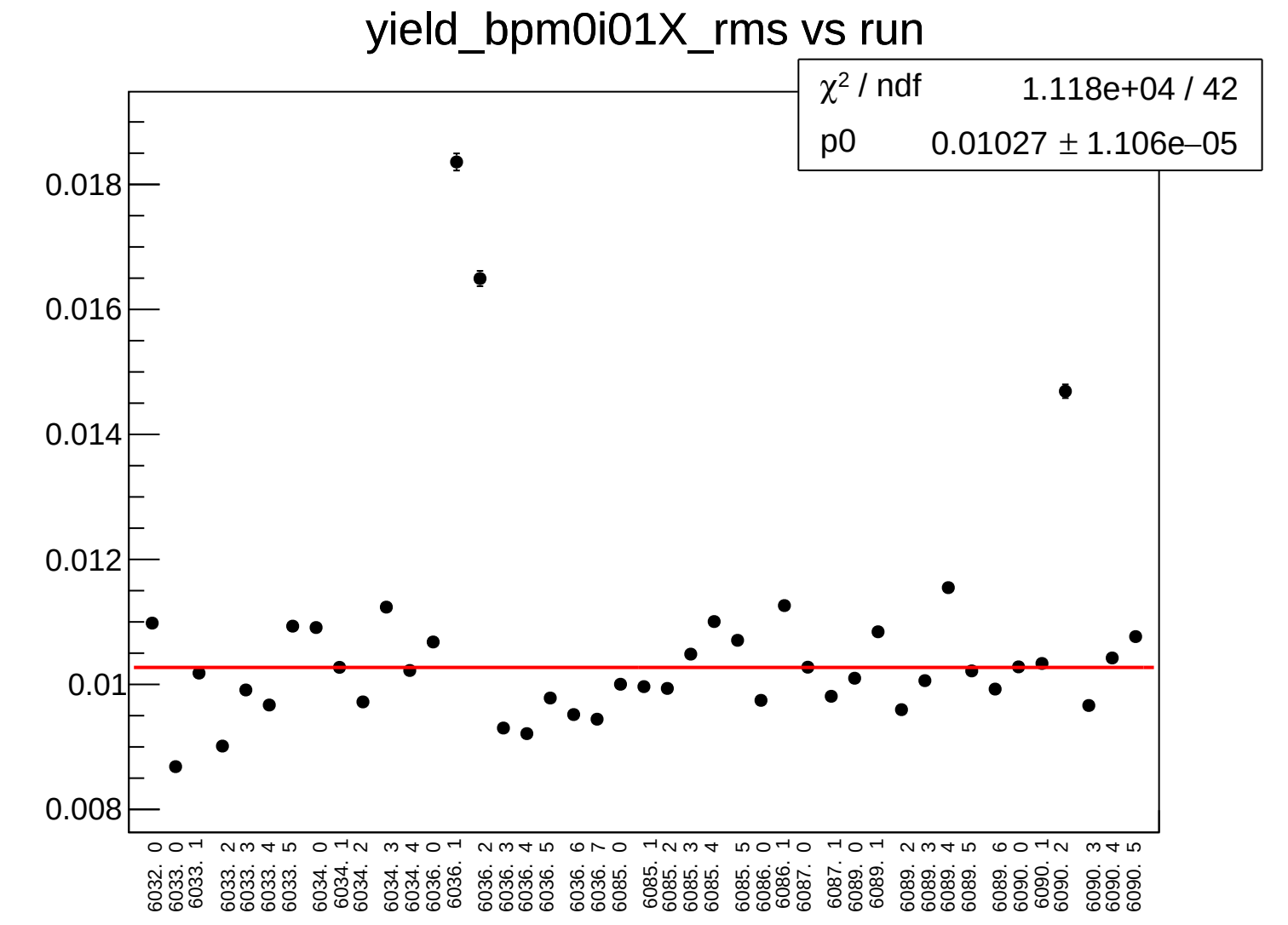

pull1D
Entries 43
Mean 0.07204
Std Dev 4.653
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

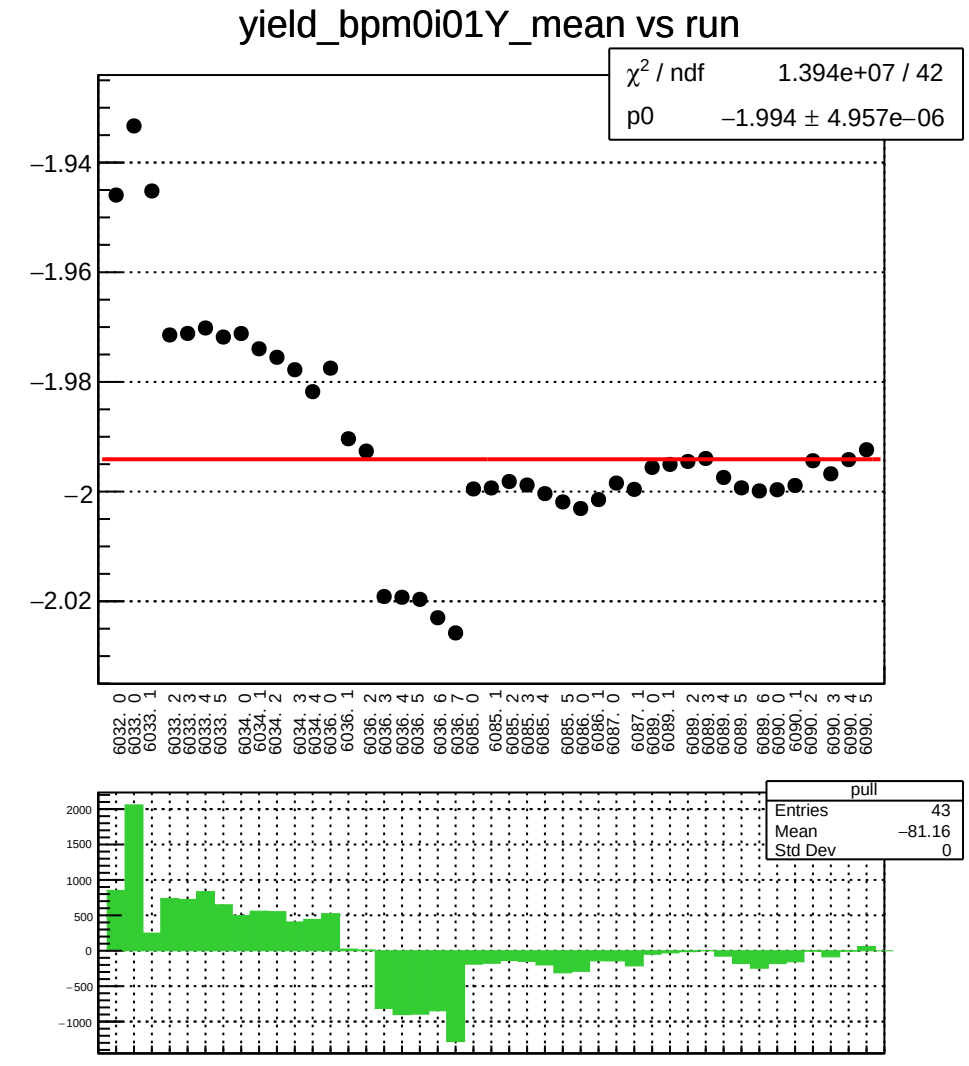

yield_bpm2i02X_rms vs run
χ² / ndf 5179 / 42
p0 0.00641 ± 6.881e–06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

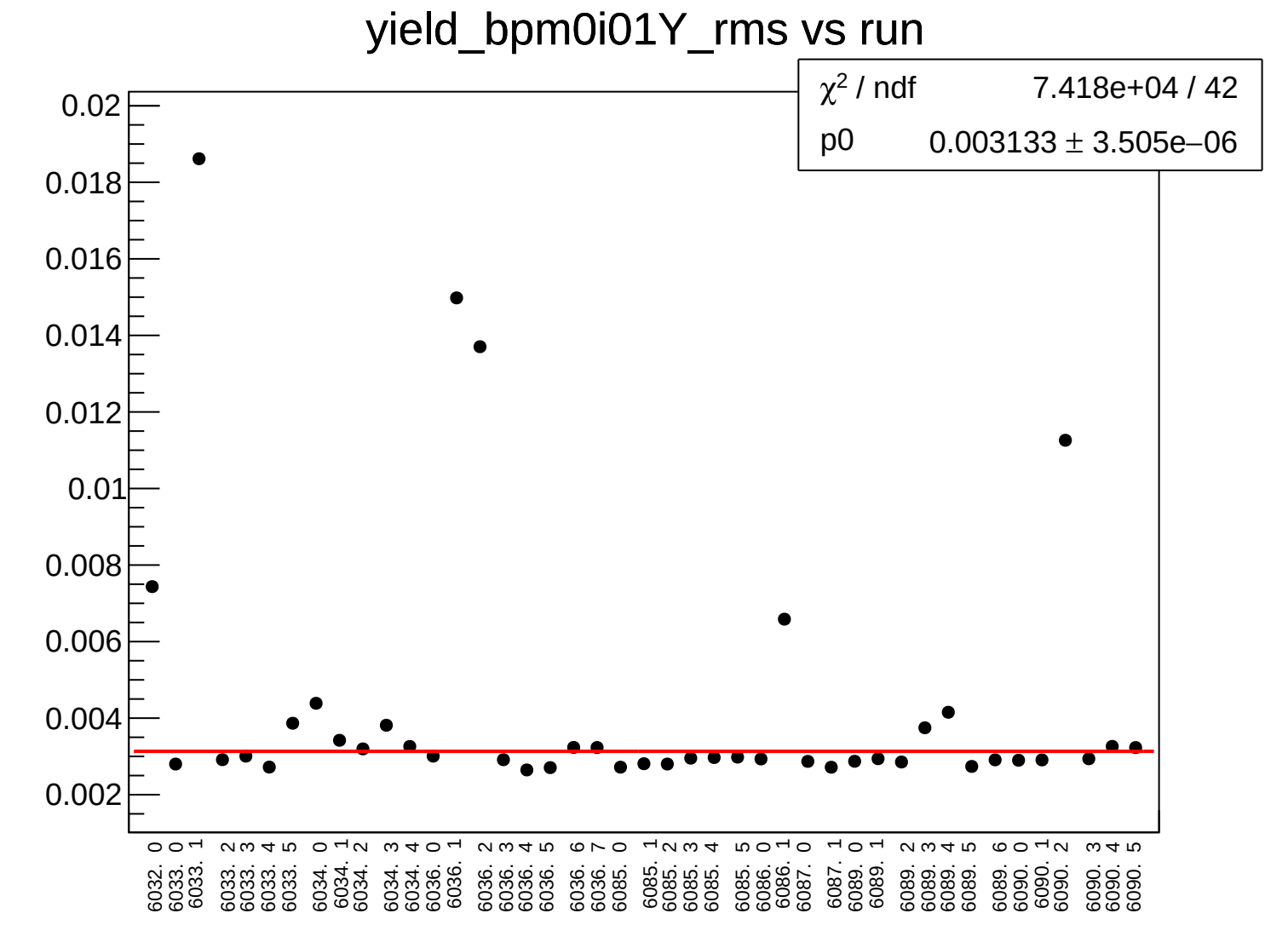

yield_bpm2i02Y_mean vs run
χ² / ndf 7.21e+06 / 42
p0 −2.862 ± 9.239e−06
−2.82
−2.84
−2.86
−2.88
−2.9
−2.92
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −621.3
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

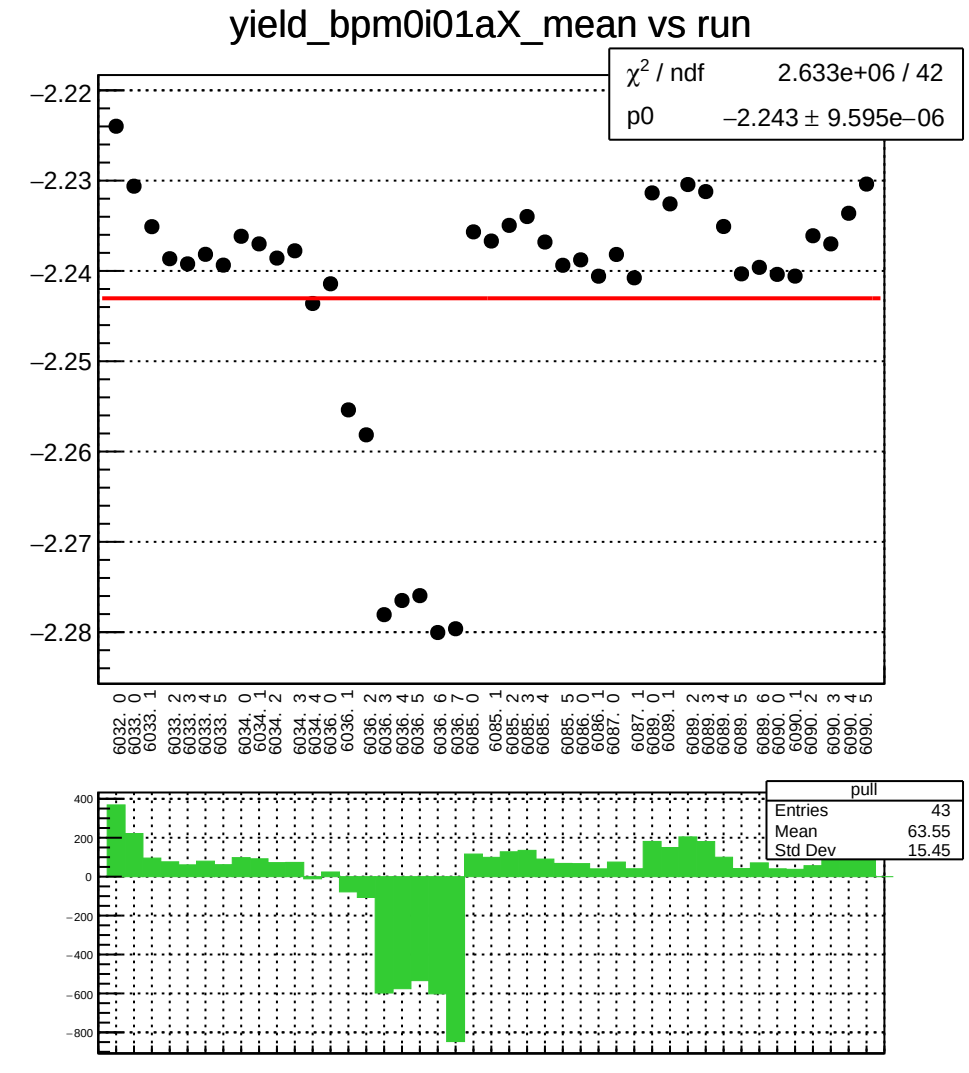

yield_bpm2i02Y_rms vs run
χ² / ndf 2942 / 42
p0 0.006094 ± 6.533e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

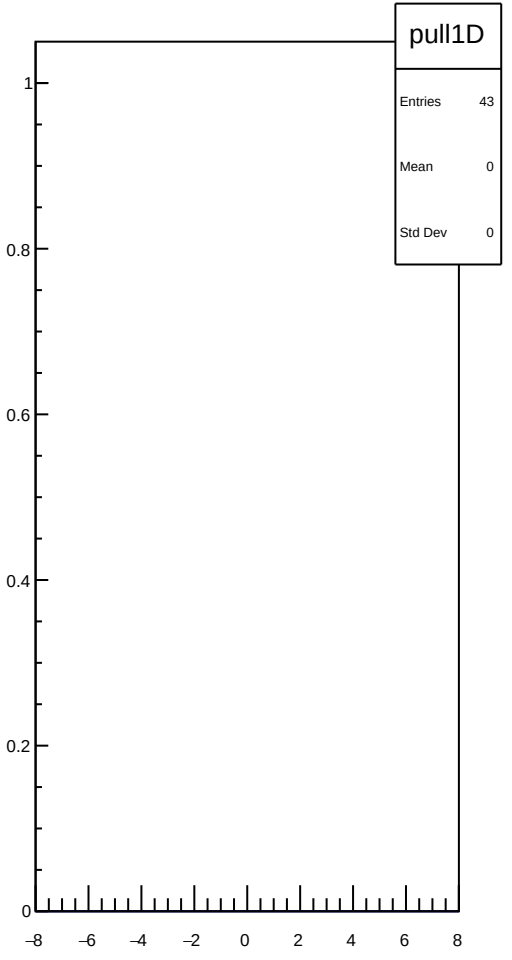

yield_bpm0i01X_mean vs run
χ² / ndf 9.59e+05 / 42
p0 −0.8816 ± 1.565e−05
−0.87
−0.88
−0.89
−0.9
−0.91
−0.92
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 41.27
Std Dev 38.11
100
0
−100
−200
−300
−400
−500
pull1D
Entries 43
Mean 1.031
Std Dev 5.115
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

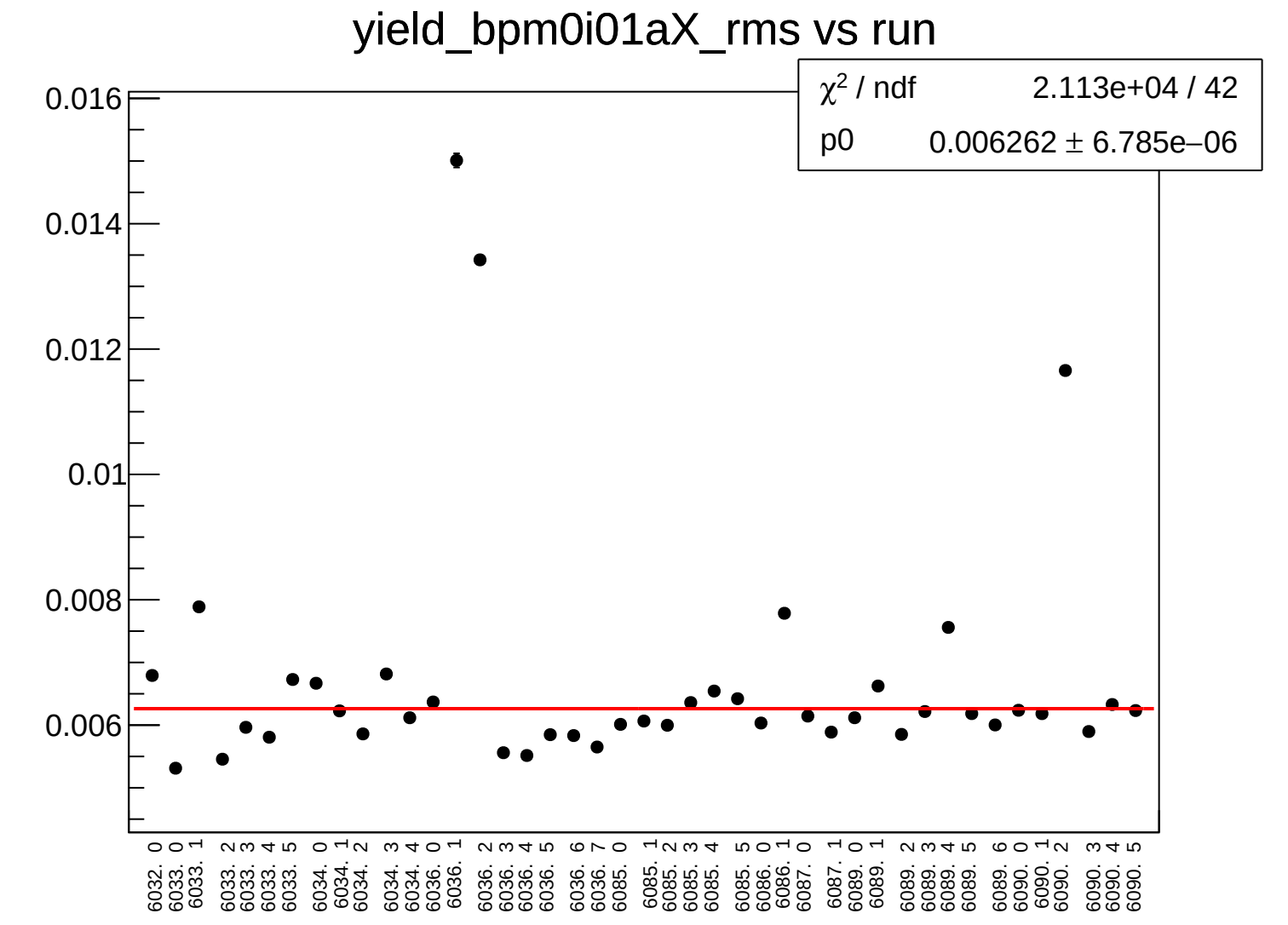

yield_bpm0i01X_rms vs run
χ² / ndf 1.118e+04 / 42
p0 0.01027 ± 1.106e–05
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

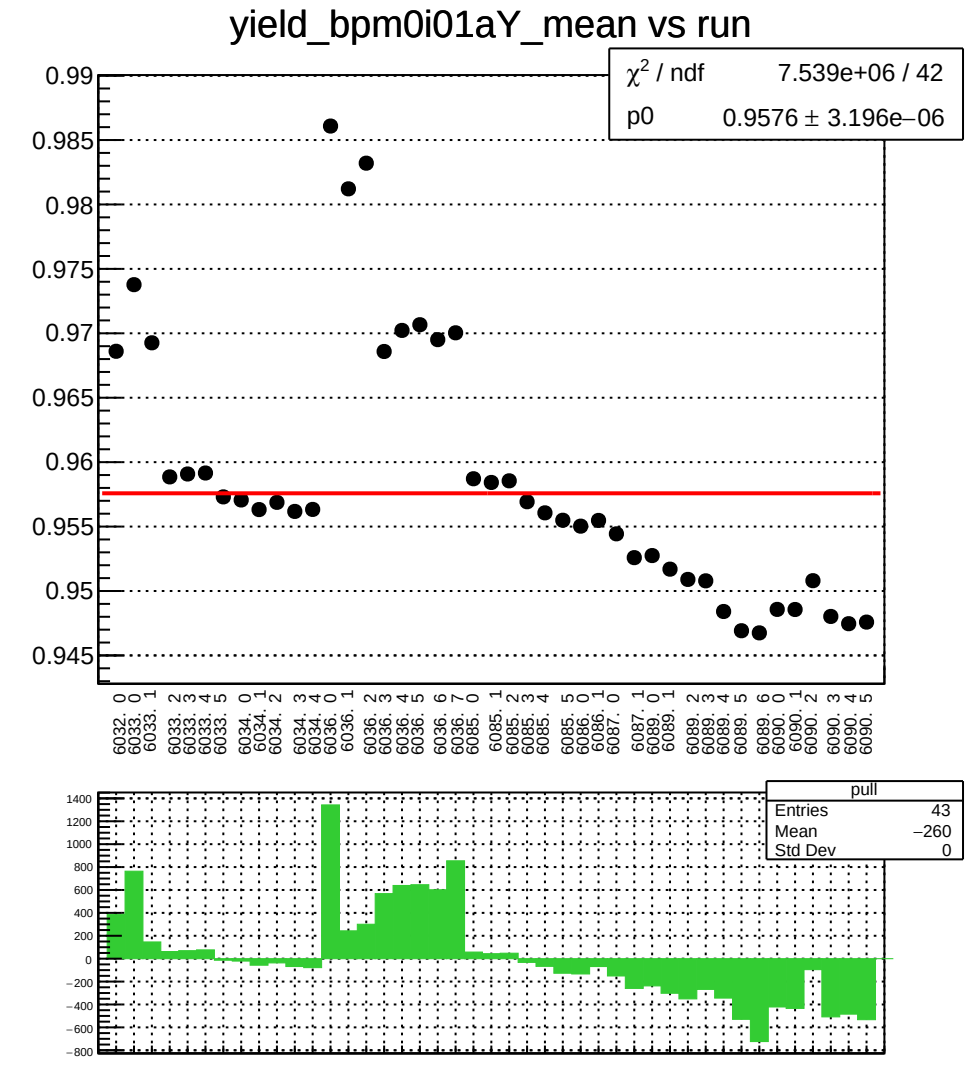

yield_bpm0i01Y_mean vs run
χ² / ndf 1.394e+07 / 42
p0 −1.994 ± 4.957e−06
−1.94
−1.96
−1.98
−2
−2.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −81.16
Std Dev 0
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 43
Mean −0.163
Std Dev 2.724
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

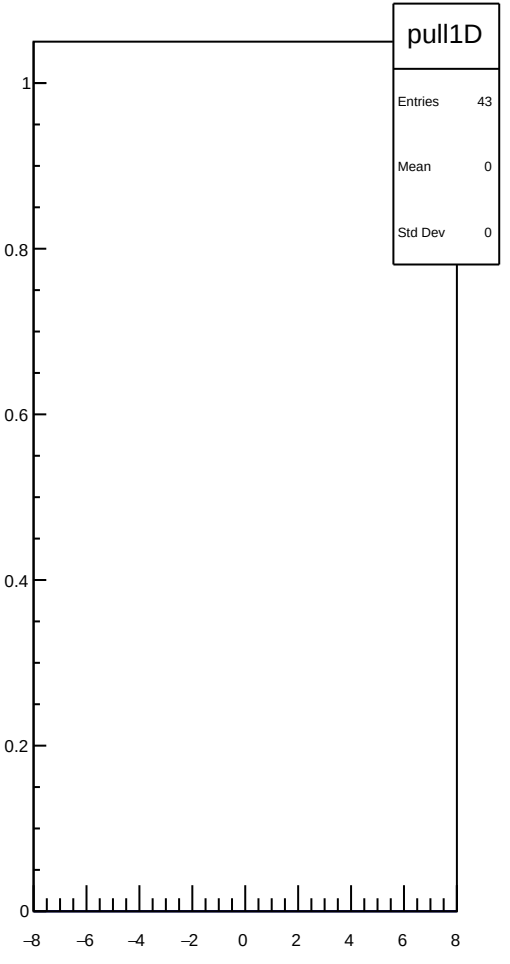

yield_bpm0i01Y_rms vs run
χ² / ndf 7.418e+04 / 42
p0 0.003133 ± 3.505e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

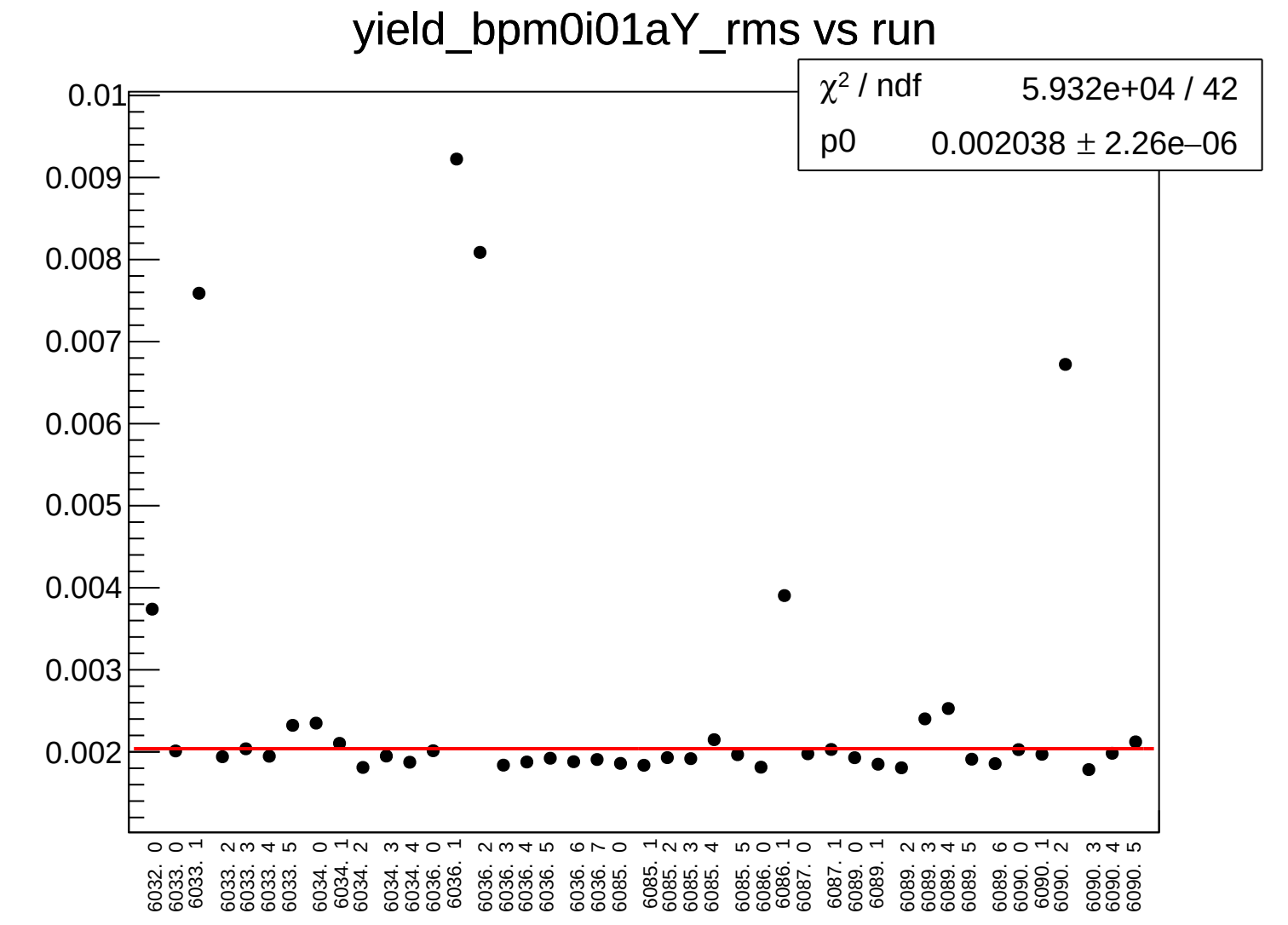

yield_bpm0i01aX_mean vs run
χ² / ndf 2.633e+06 / 42
p0 −2.243 ± 9.595e−06
−2.22
−2.23
−2.24
−2.25
−2.26
−2.27
−2.28
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 63.55
Std Dev 15.45
400
200
0
−200
−400
−600
−800

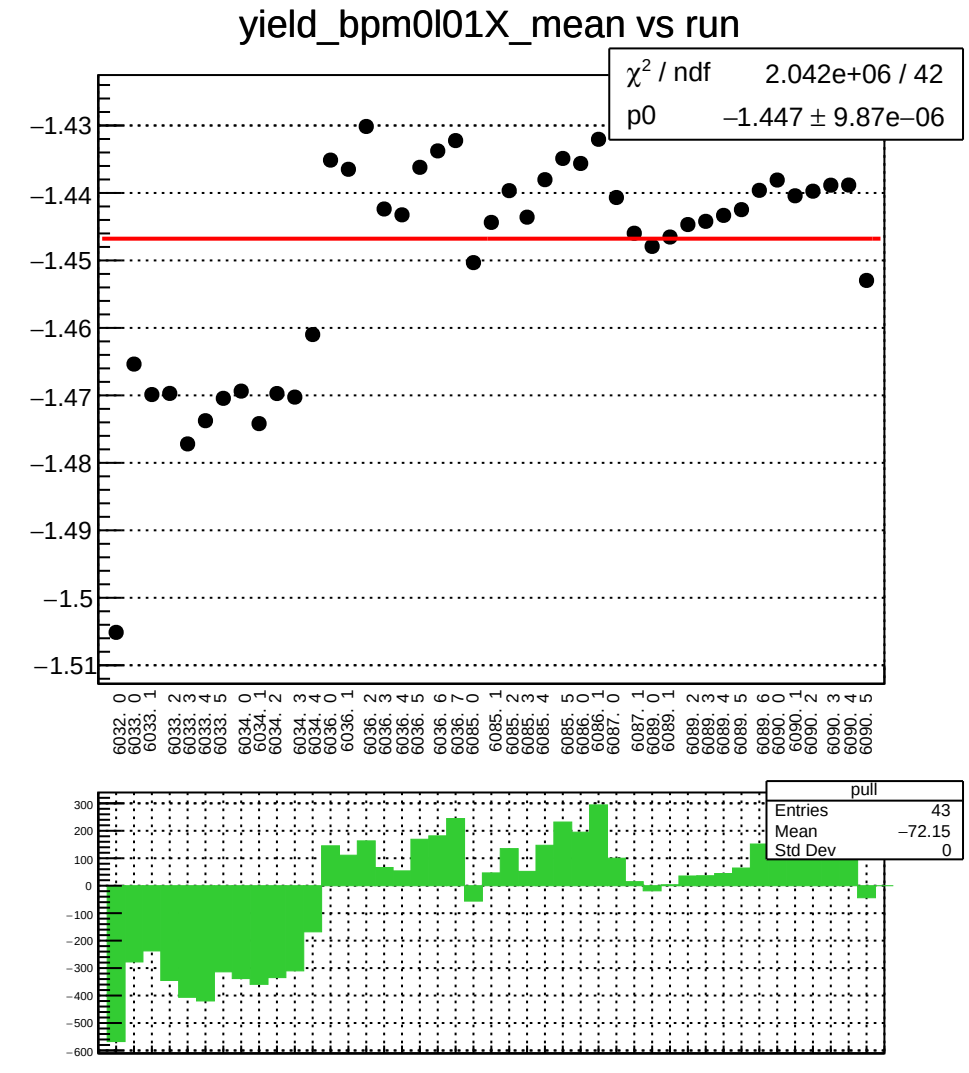

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

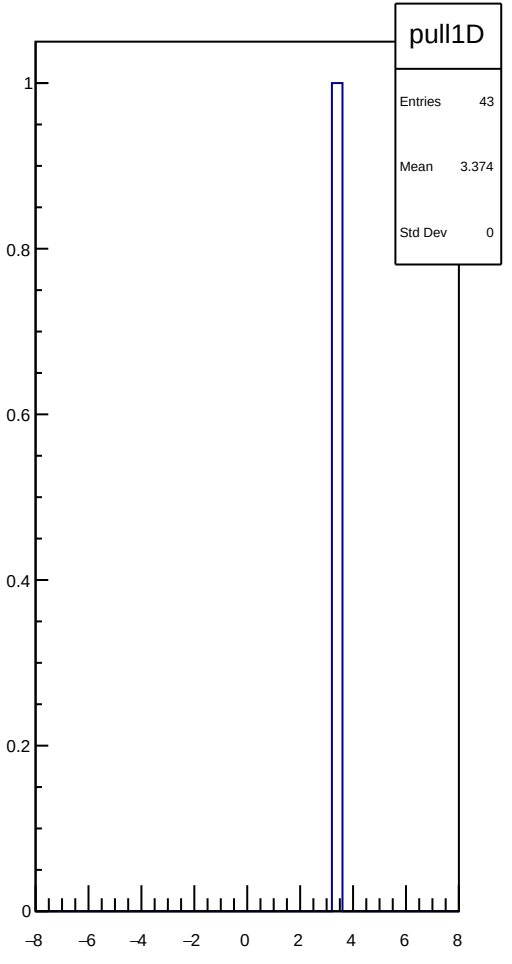

yield_bpm0i01aX_rms vs run
χ² / ndf 2.113e+04 / 42
p0 0.006262 ± 6.785e−06
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

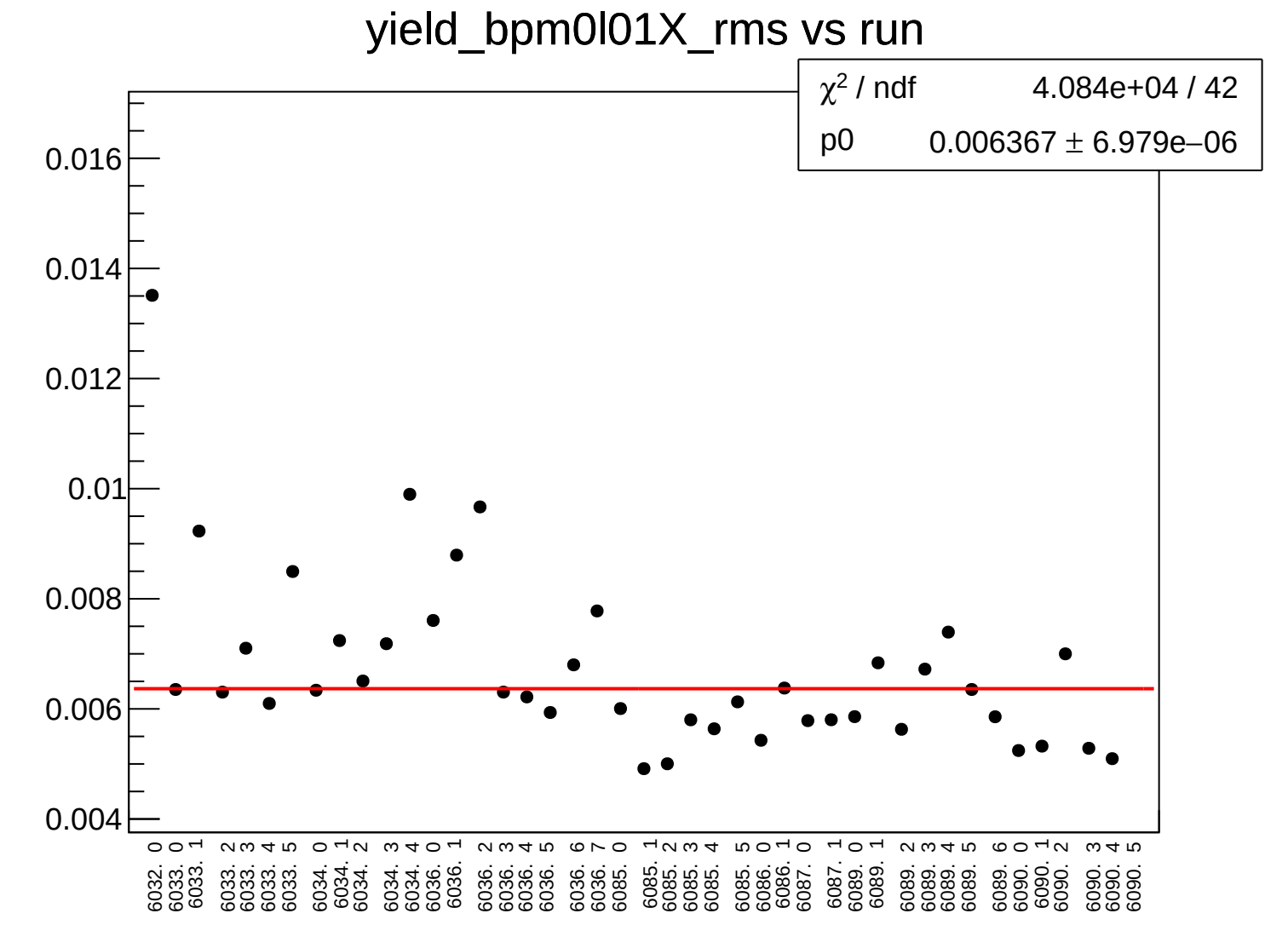

yield_bpm0i01aY_mean vs run
χ² / ndf 7.539e+06 / 42
p0 0.9576 ± 3.196e−06
0.99
0.985
0.98
0.975
0.97
0.965
0.96
0.955
0.95
0.945
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −260
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

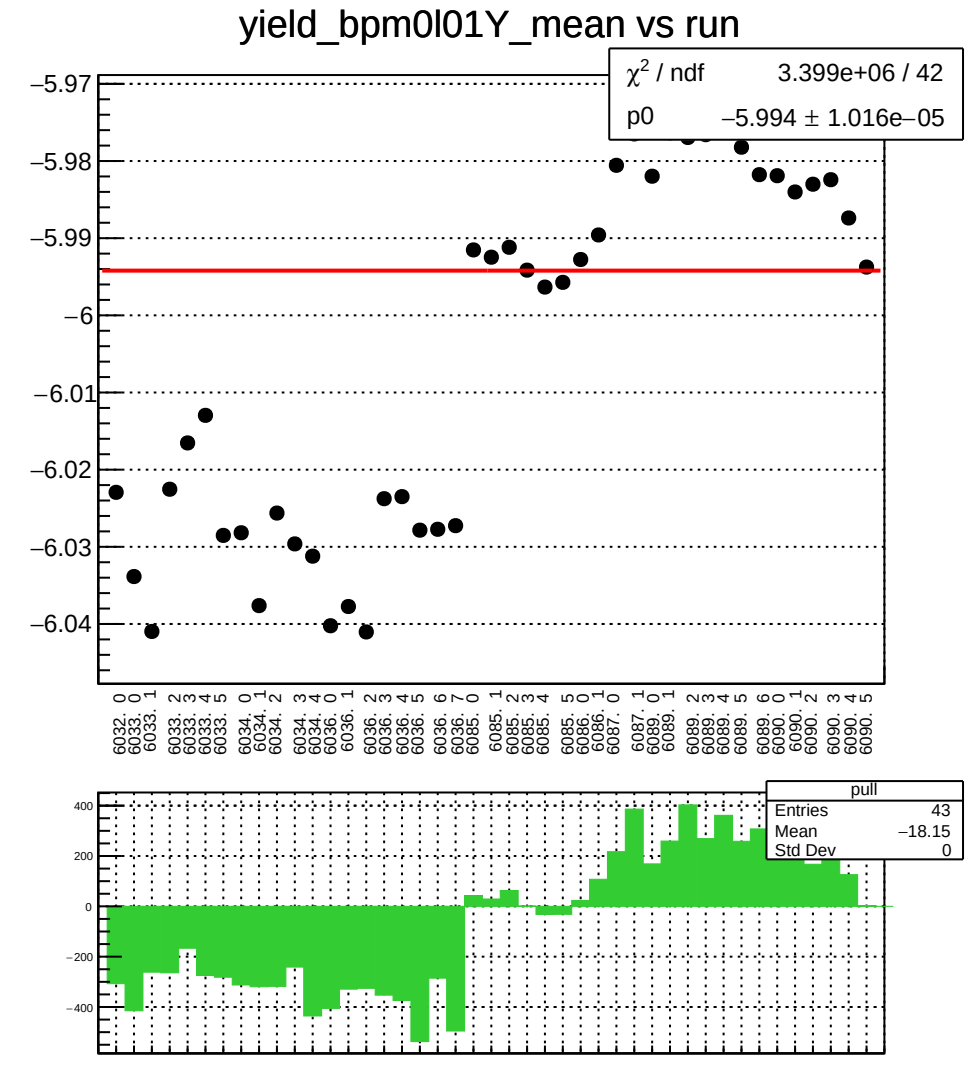

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

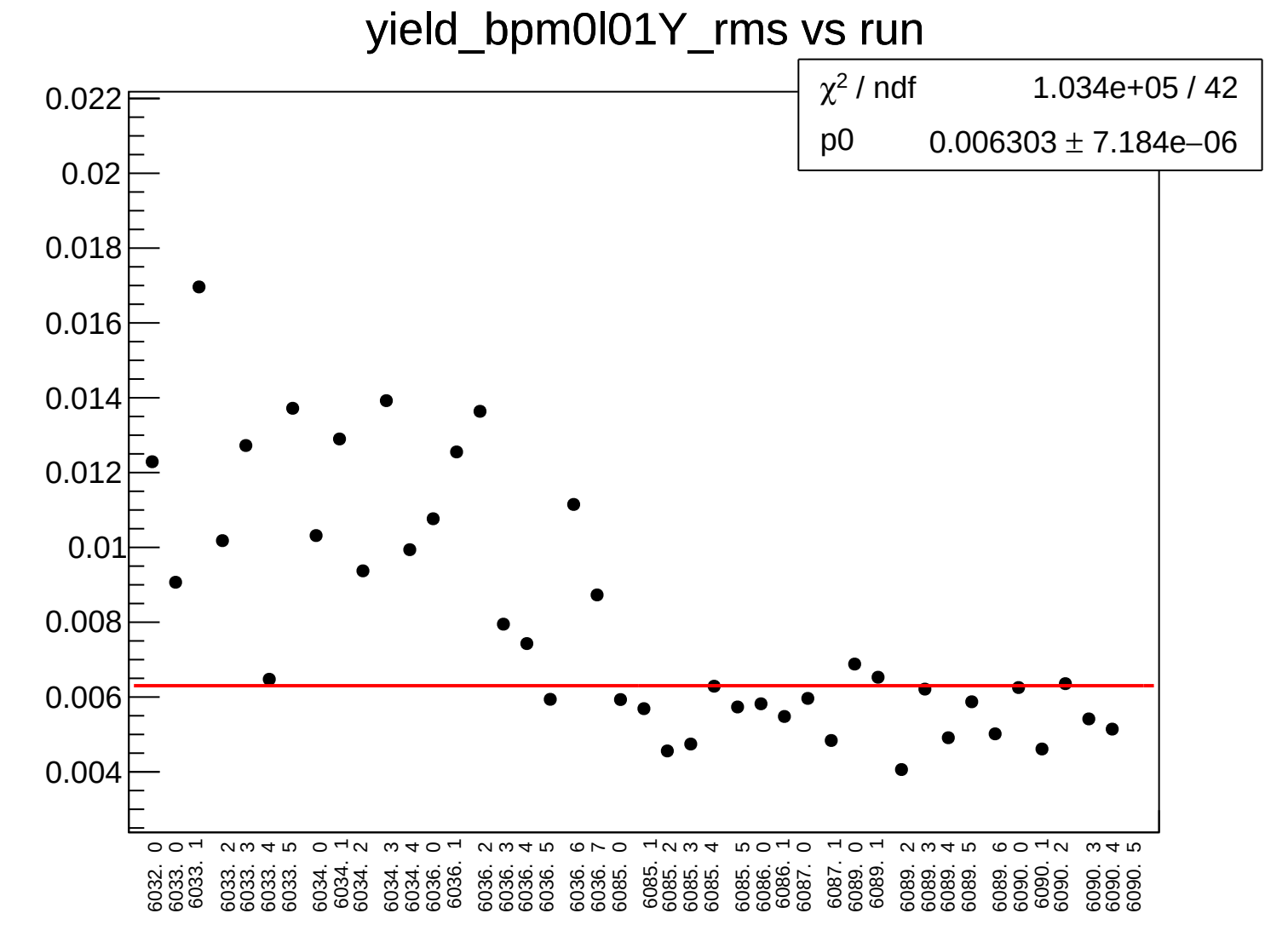

yield_bpm0i01aY_rms vs run
χ² / ndf 5.932e+04 / 42
p0 0.002038 ± 2.26e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

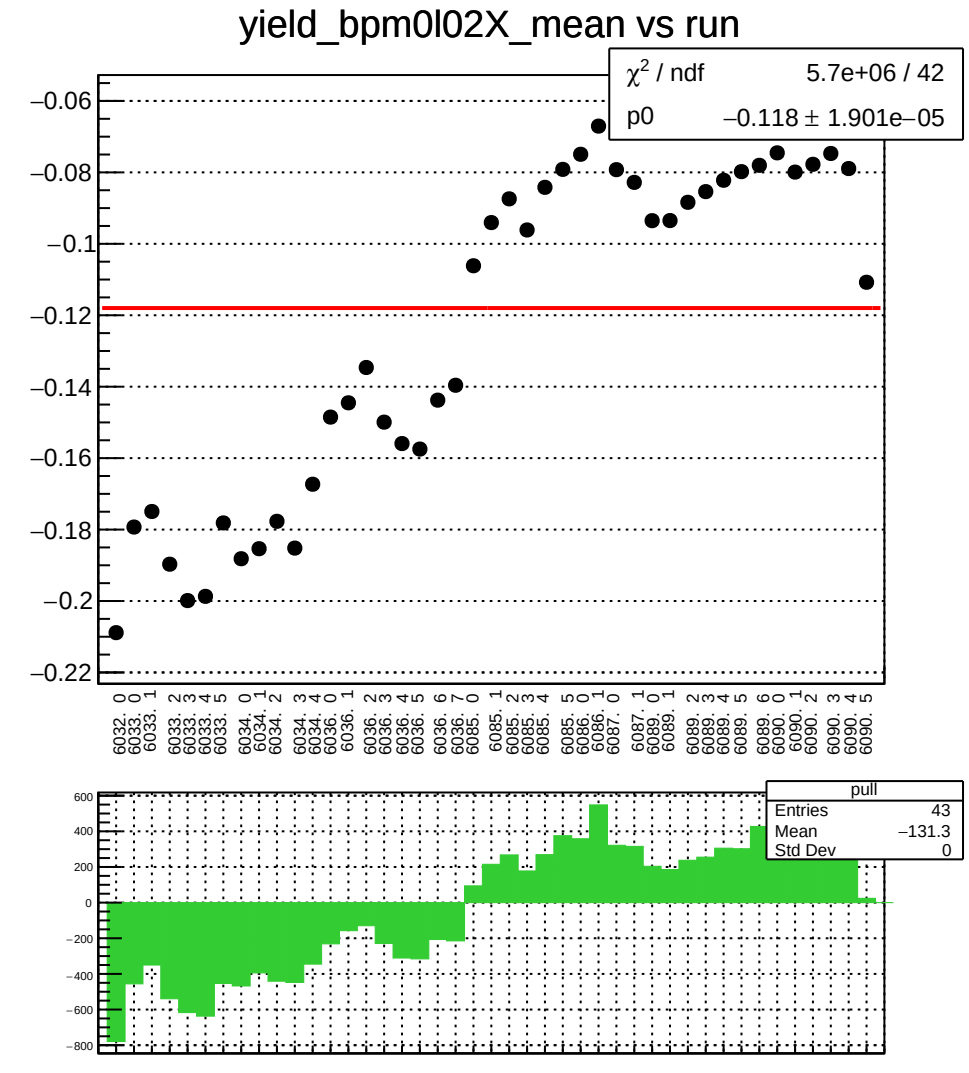

yield_bpm0l01X_mean vs run
χ² / ndf 2.042e+06 / 42
p0 −1.447 ± 9.87e−06
−1.43
−1.44
−1.45
−1.46
−1.47
−1.48
−1.49
−1.5
−1.51
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −72.15
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

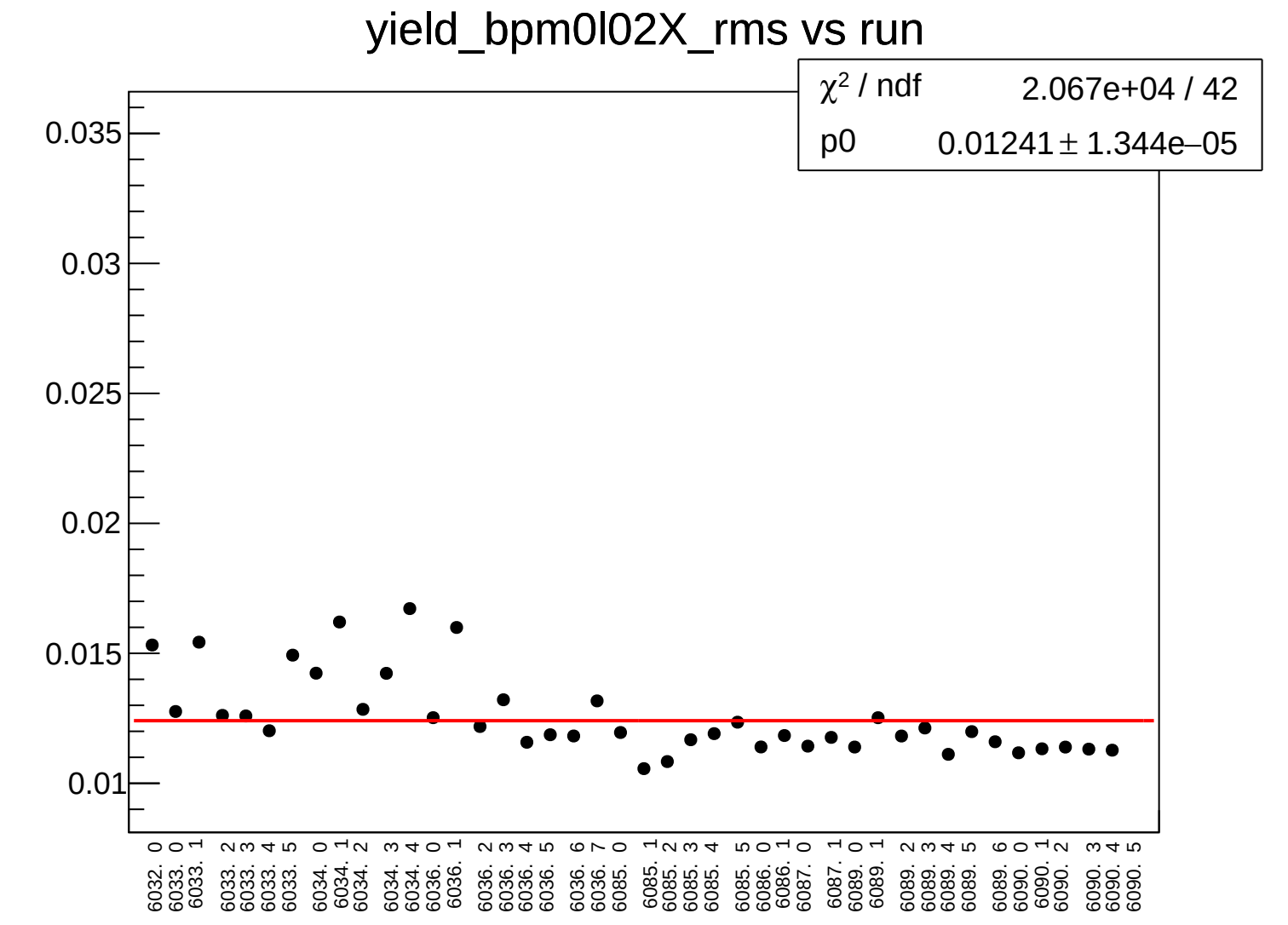

pull1D
Entries 43
Mean 3.374
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

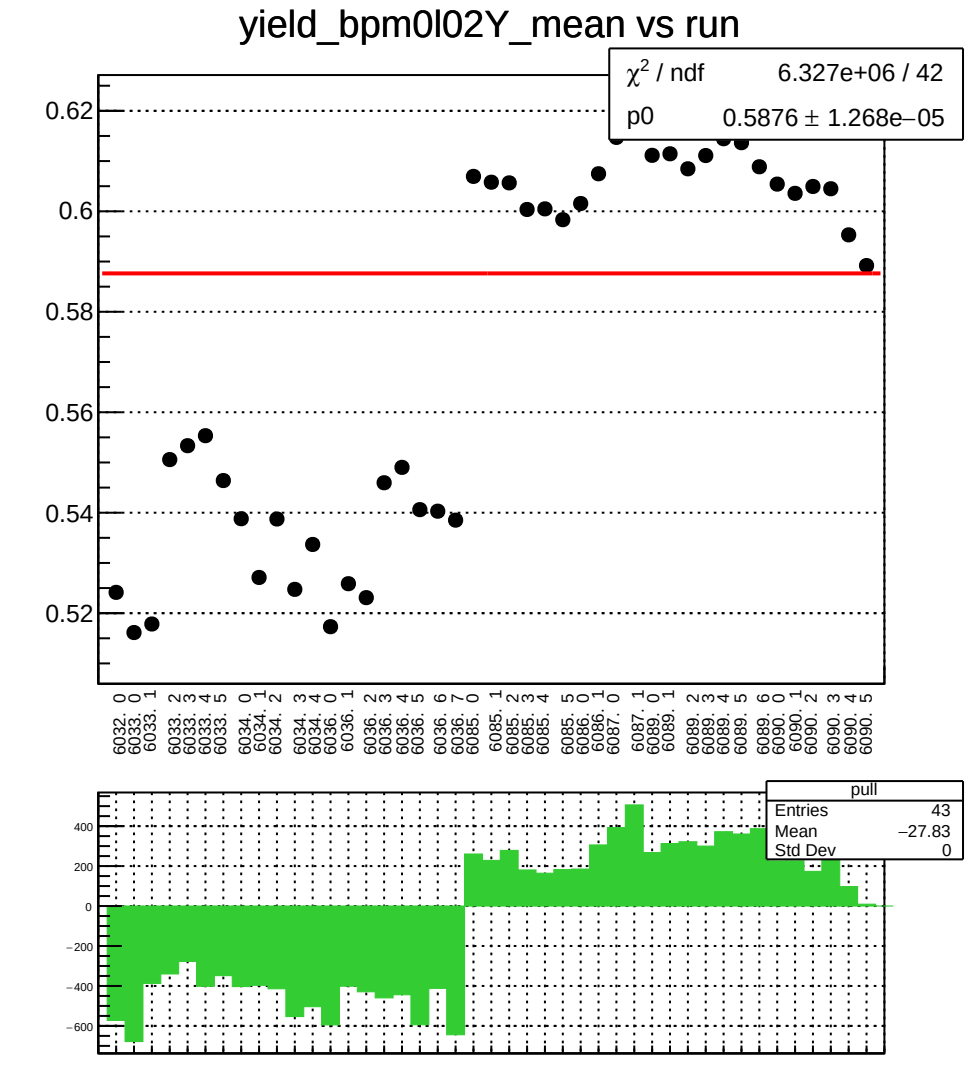

yield_bpm0l01X_rms vs run
χ² / ndf 4.084e+04 / 42
p0 0.006367 ± 6.979e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

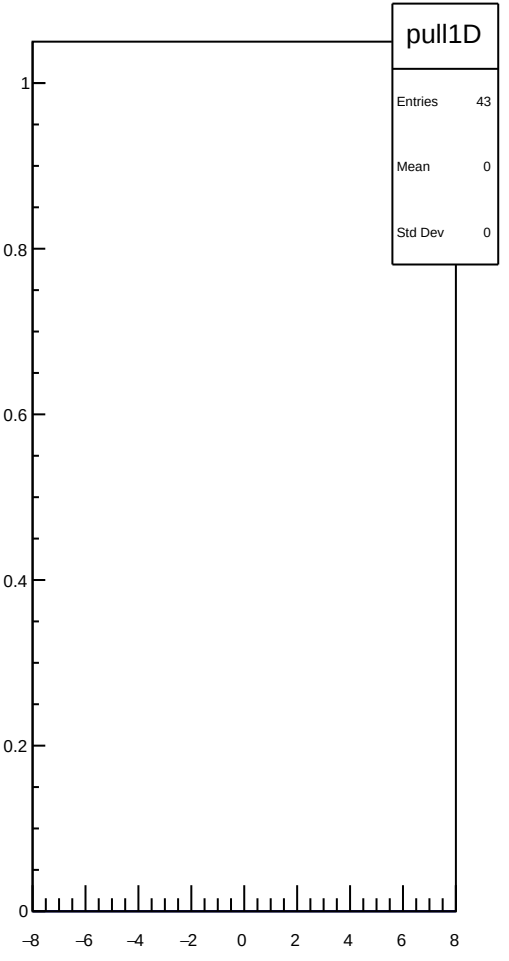

yield_bpm0l01Y_mean vs run
χ² / ndf 3.399e+06 / 42
p0 −5.994 ± 1.016e−05
−5.97
−5.98
−5.99
−6
−6.01
−6.02
−6.03
−6.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −18.15
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 43
Mean 1.887
Std Dev 0.6524
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

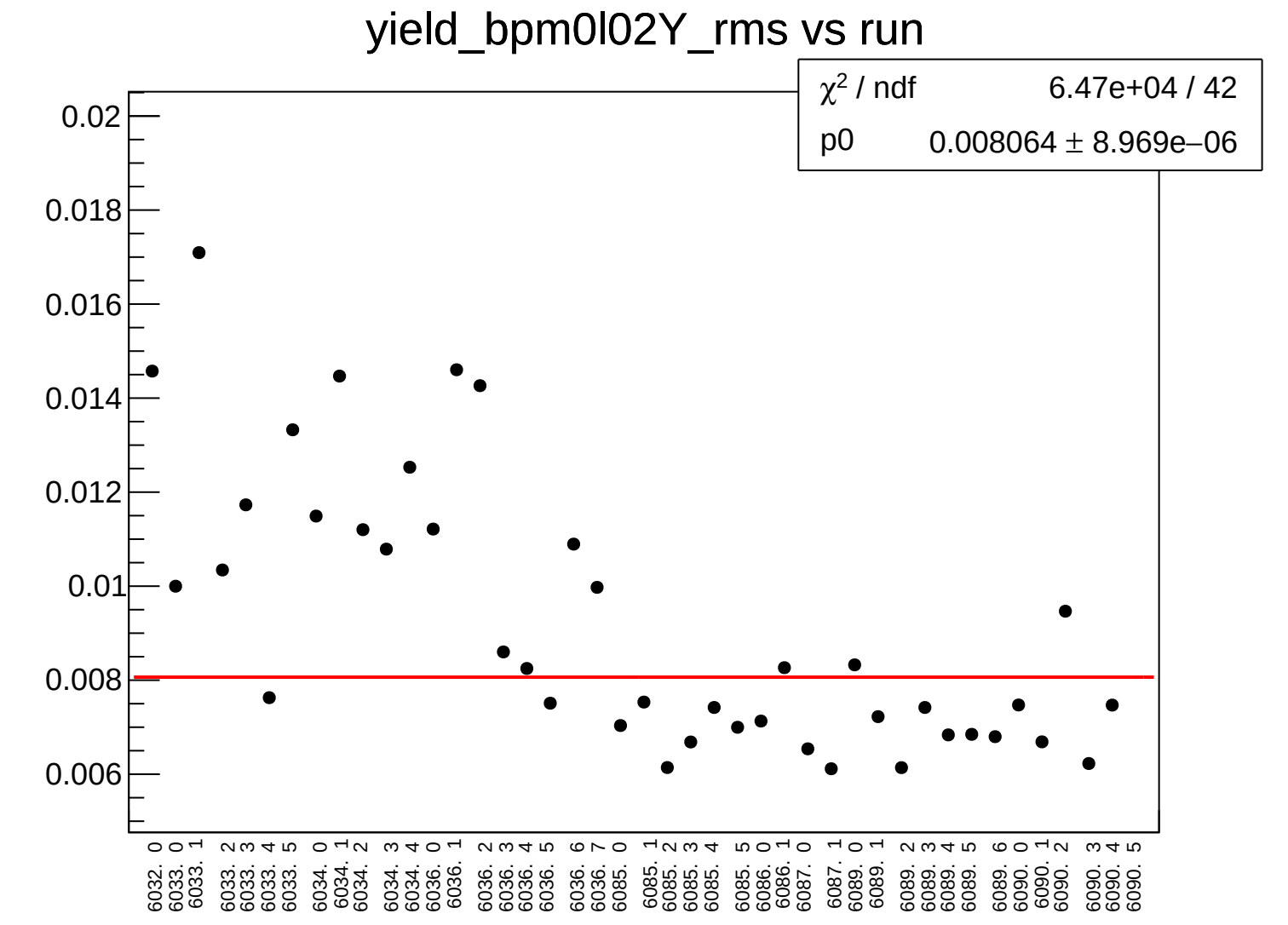

yield_bpm0l01Y_rms vs run
χ² / ndf 1.034e+05 / 42
p0 0.006303 ± 7.184e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

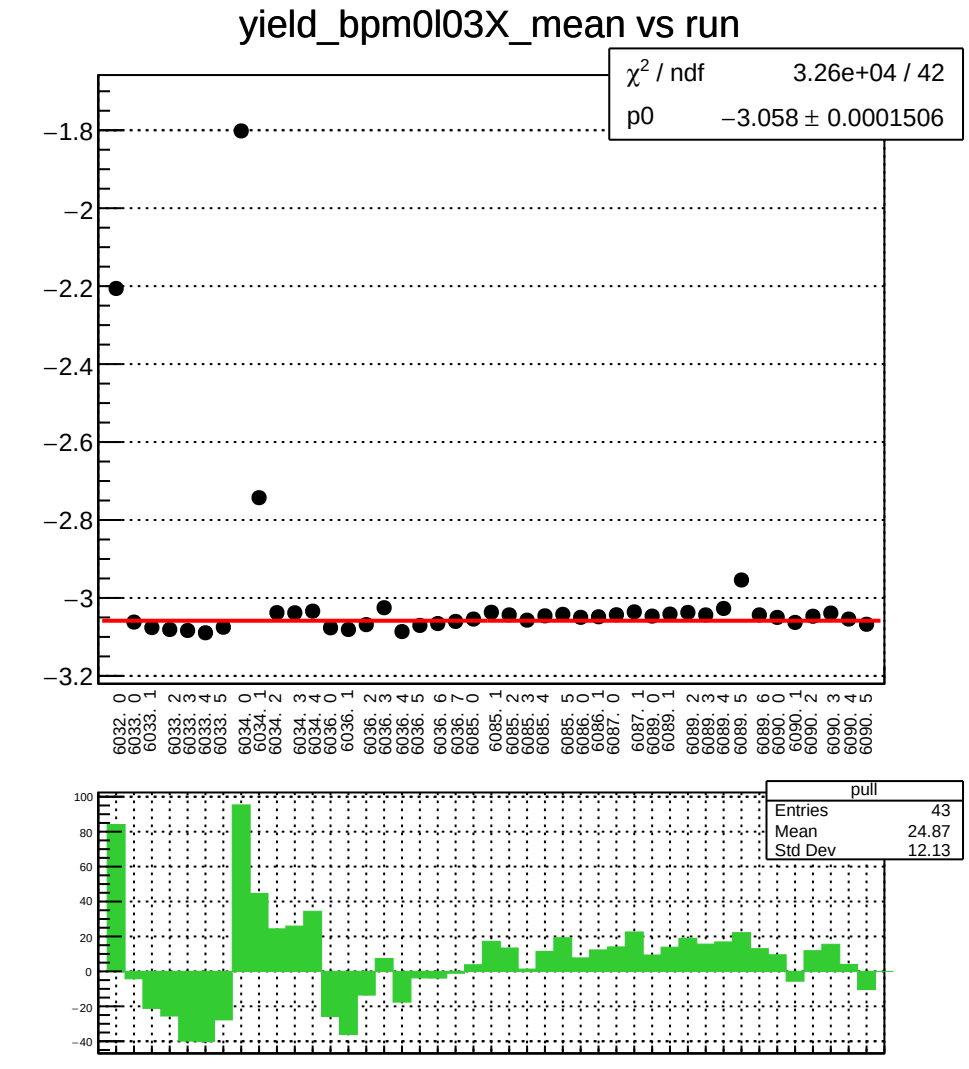

yield_bpm0l02X_mean vs run
χ² / ndf 5.7e+06 / 42
p0 −0.118 ± 1.901e−05
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −131.3
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

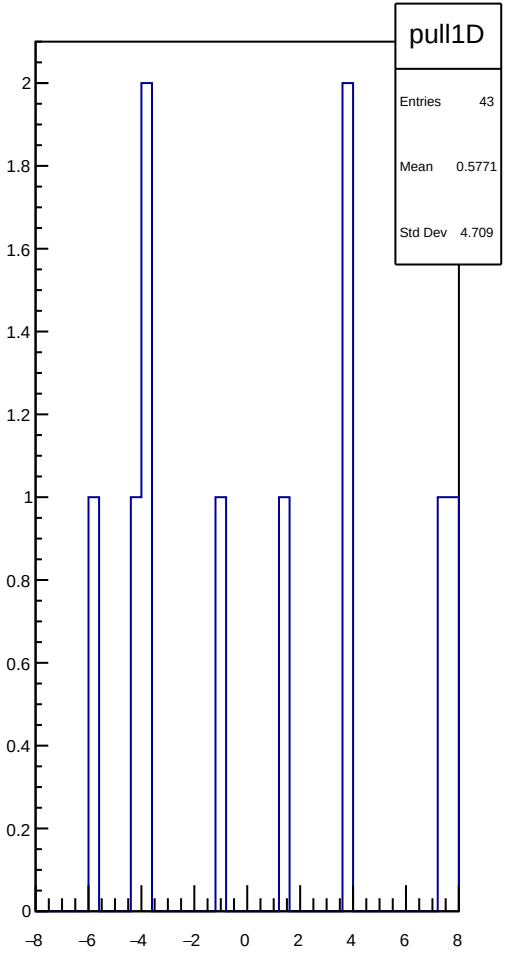

yield_bpm0l02X_rms vs run
χ² / ndf 2.067e+04 / 42
p0 0.01241 ± 1.344e−05
0.035
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

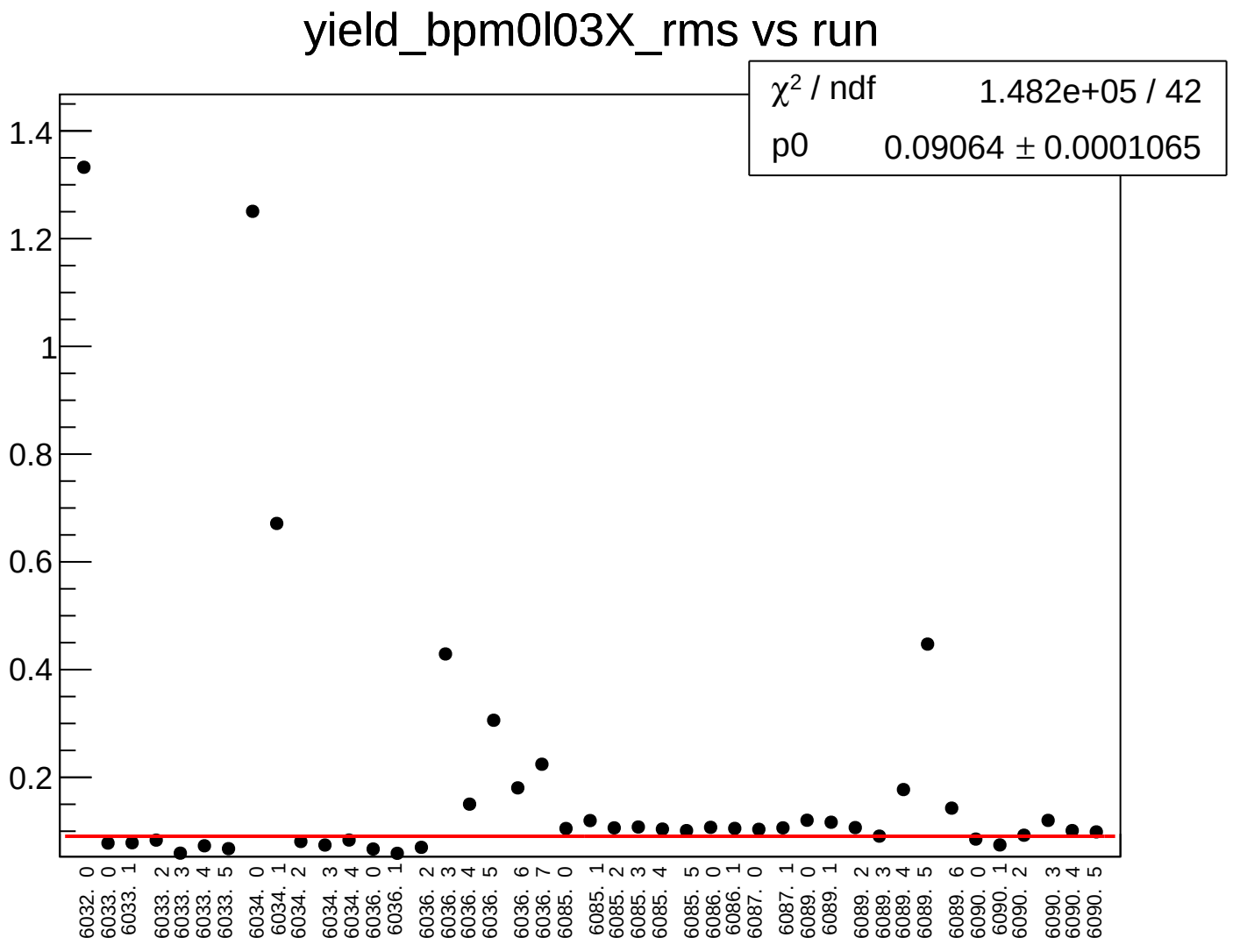

yield_bpm0l02Y_mean vs run
χ² / ndf 6.327e+06 / 42
p0 0.5876 ± 1.268e−05
0.62
0.6
0.58
0.56
0.54
0.52
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −27.83
Std Dev 0
400
200
0
−200
−400
−600

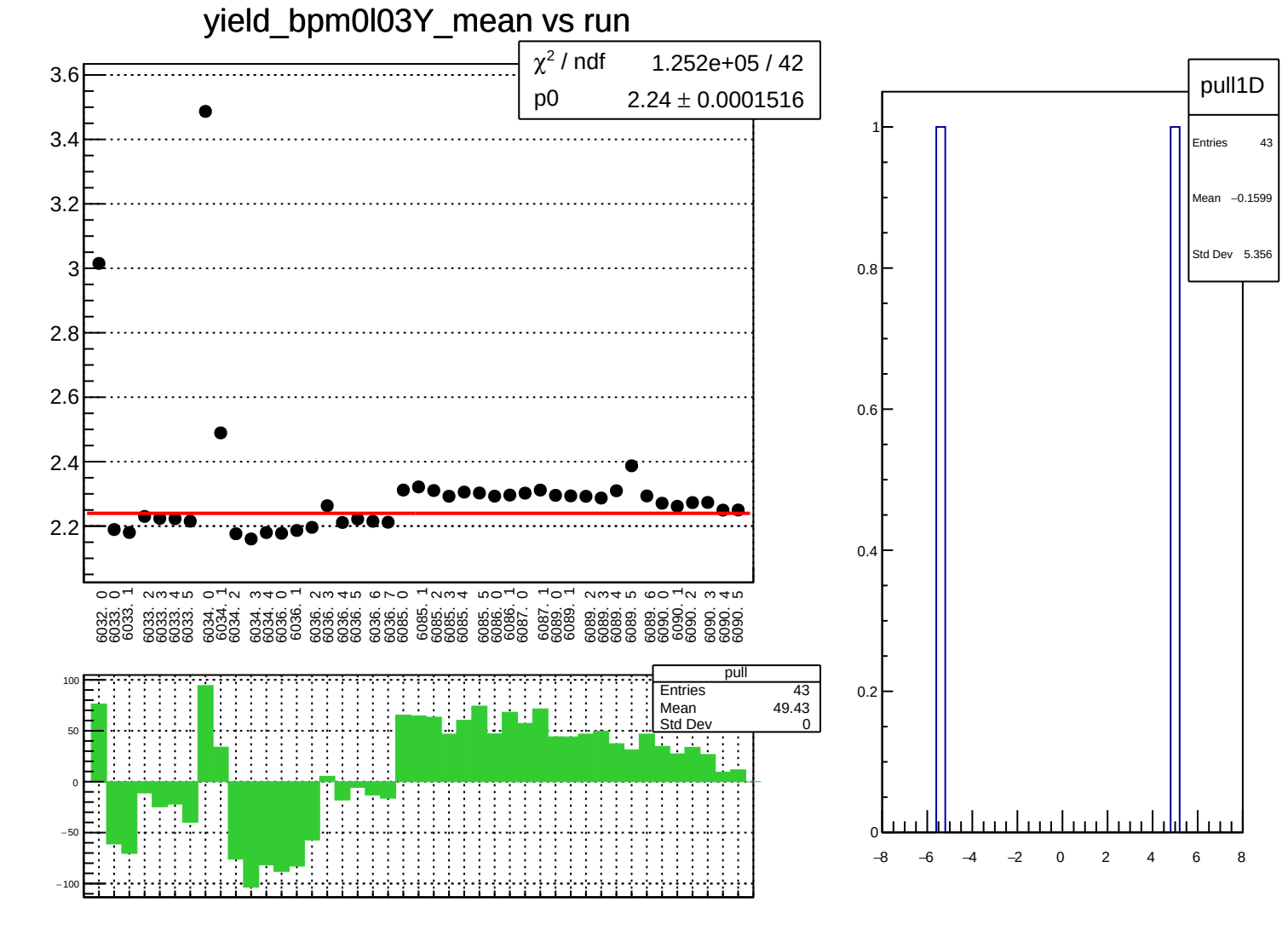

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

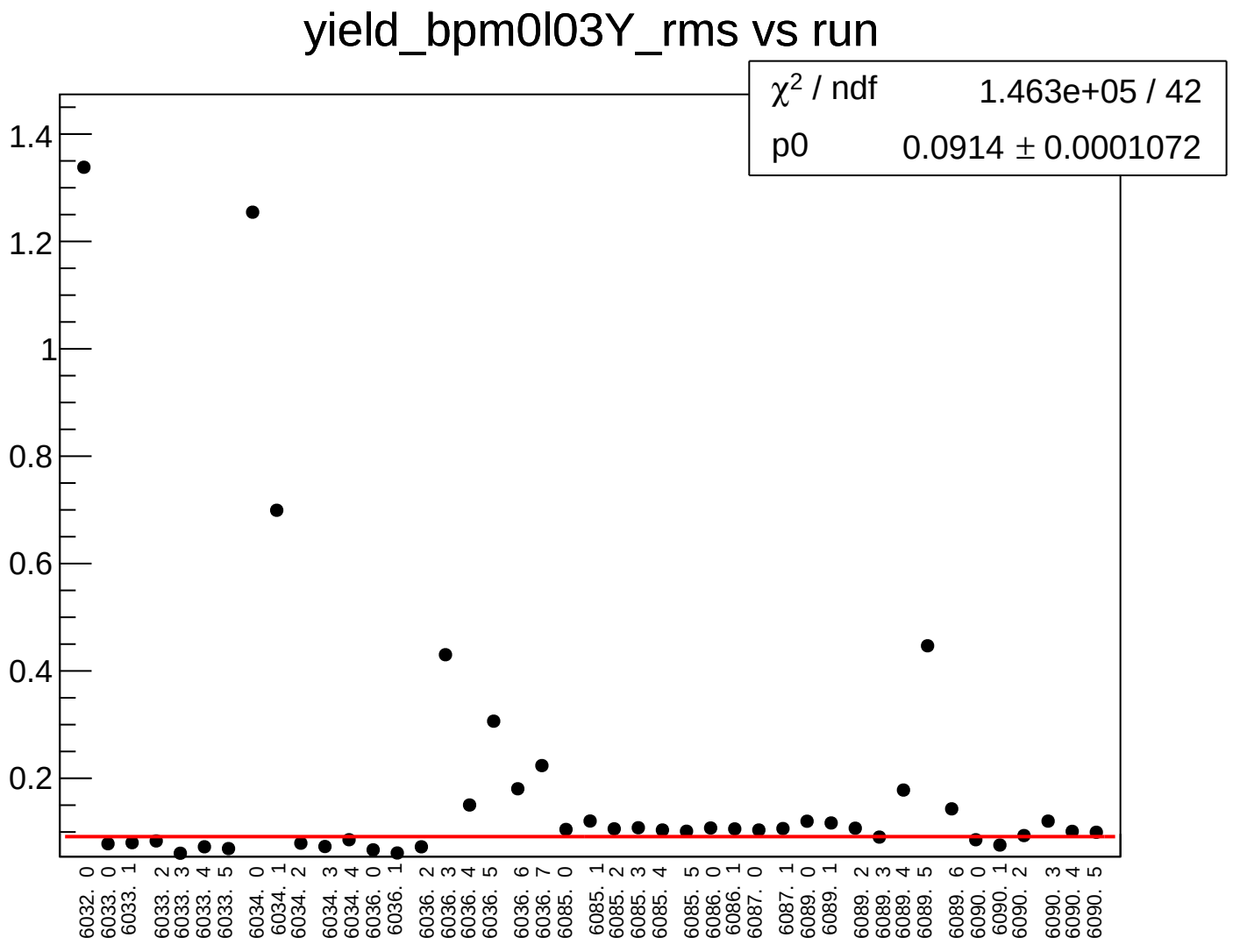

yield_bpm0l02Y_rms vs run
χ² / ndf 6.47e+04 / 42
p0 0.008064 ± 8.969e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

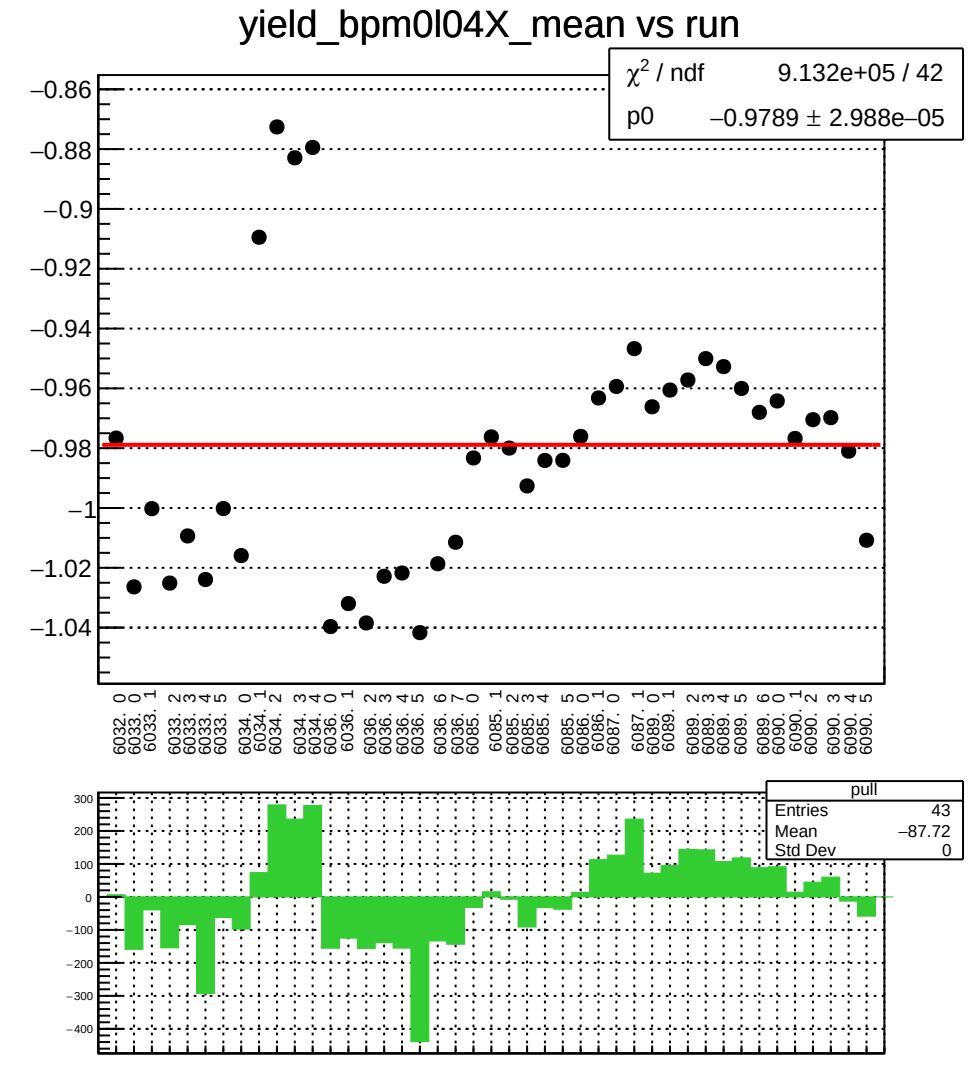

yield_bpm0l03X_mean vs run
χ² / ndf 3.26e+04 / 42
p0 −3.058 ± 0.0001506
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.87
Std Dev 12.13
100
80
60
40
20
0
−20
−40

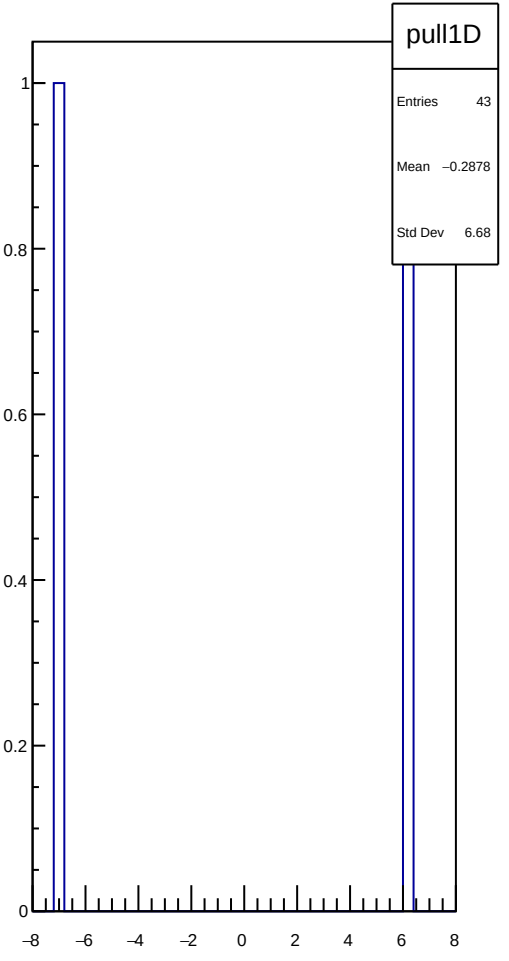

pull1D
Entries 43
Mean 0.5771
Std Dev 4.709
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

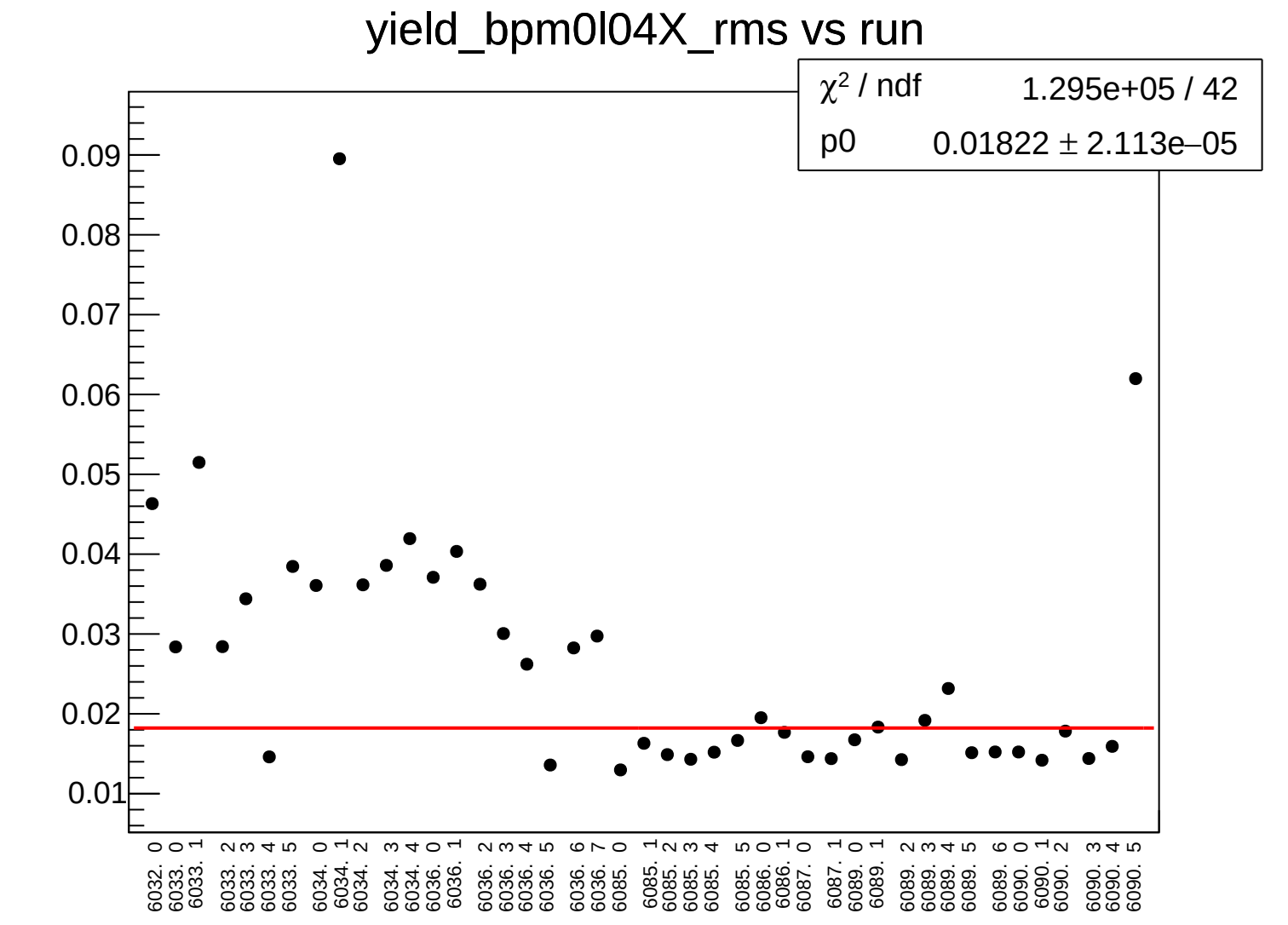

yield_bpm0l03X_rms vs run
χ² / ndf 1.482e+05 / 42
p0 0.09064 ± 0.0001065
1.4
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

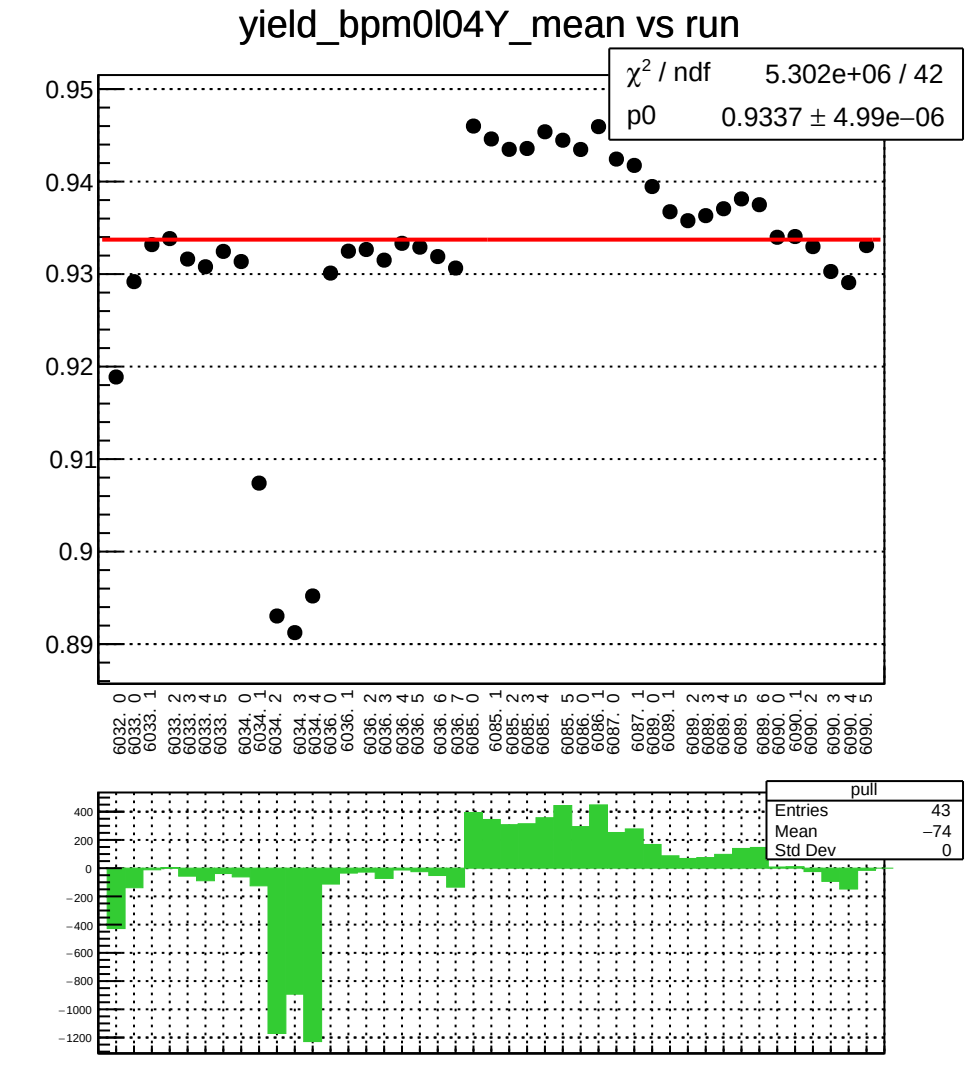

yield_bpm0l03Y_mean vs run
χ² / ndf 1.252e+05 / 42
p0 2.24 ± 0.0001516
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 49.43
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 43
Mean −0.1599
Std Dev 5.356
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

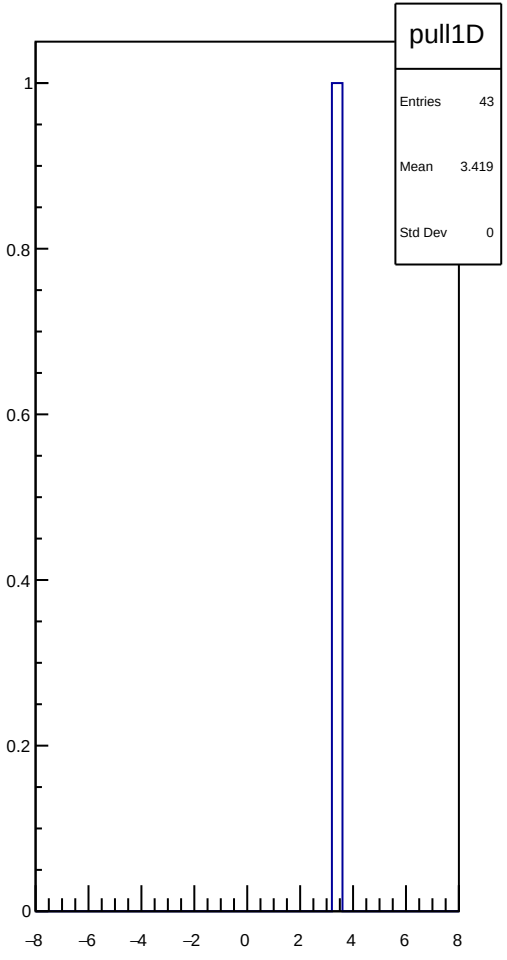

yield_bpm0l03Y_rms vs run
χ² / ndf 1.463e+05 / 42
p0 0.0914 ± 0.0001072
1.4
1.2
1
0.8
0.6
0.4
0.2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

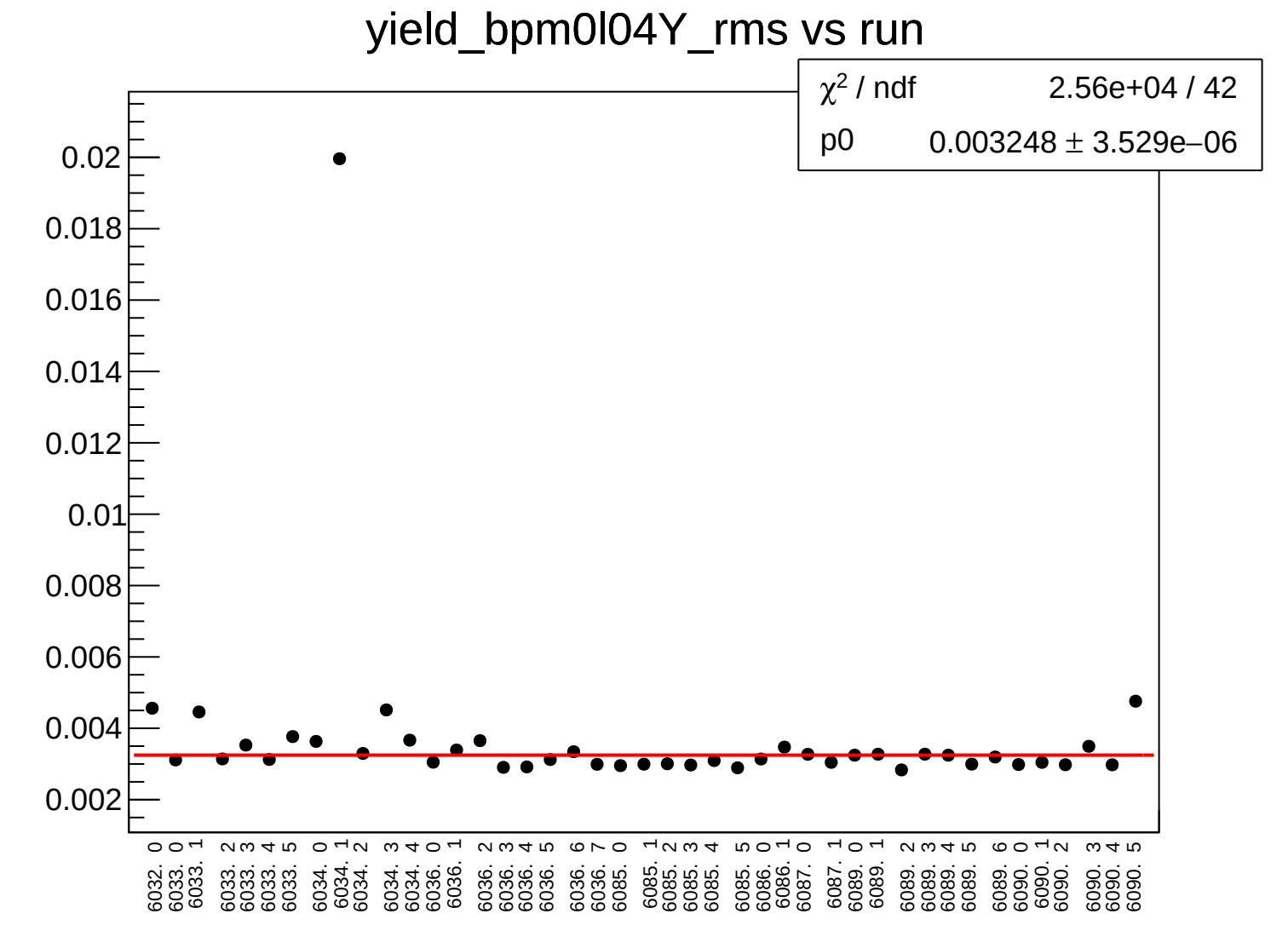

yield_bpm0l04X_mean vs run
χ² / ndf 9.132e+05 / 42
p0 −0.9789 ± 2.988e−05
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −87.72
Std Dev 0
300
200
100
0
−100
−200
−300
−400

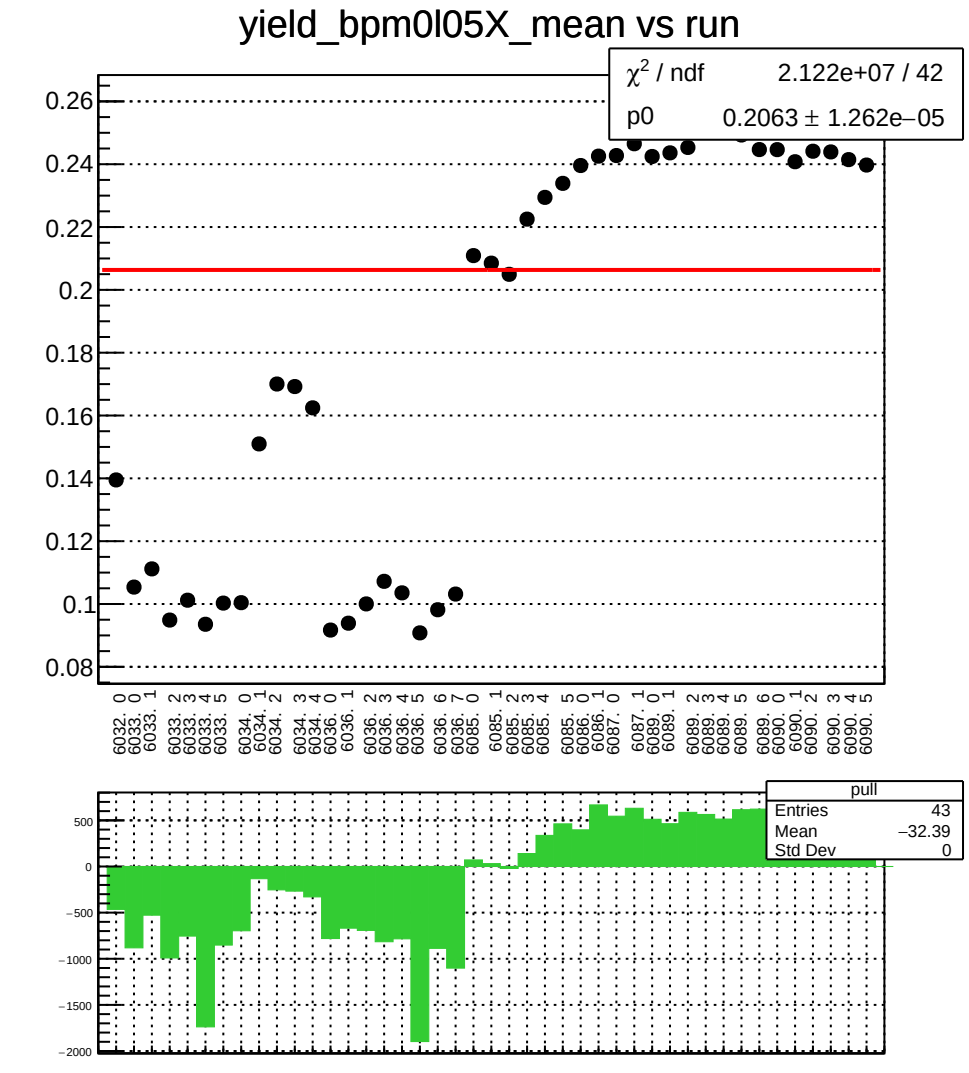

pull1D
Entries 43
Mean −0.2878
Std Dev 6.68
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

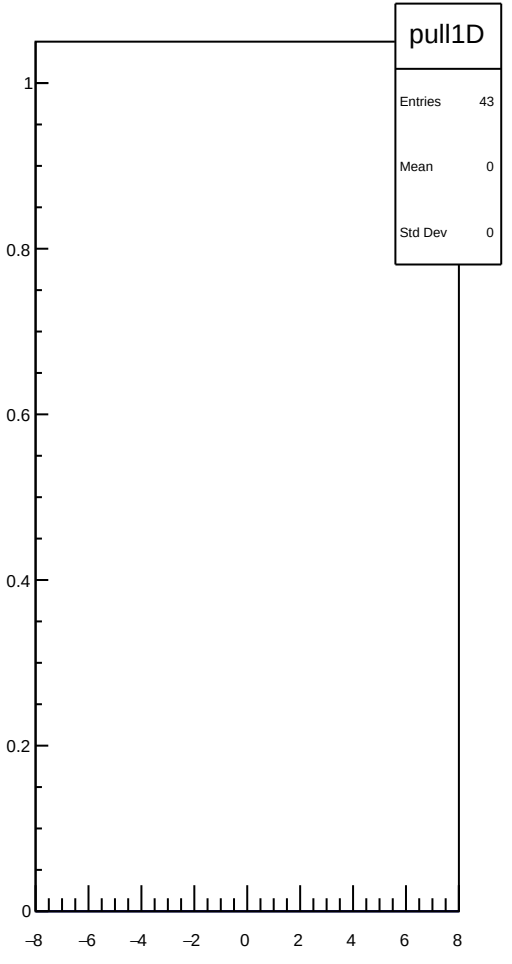

yield_bpm0l04X_rms vs run
χ² / ndf 1.295e+05 / 42
p0 0.01822 ± 2.113e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

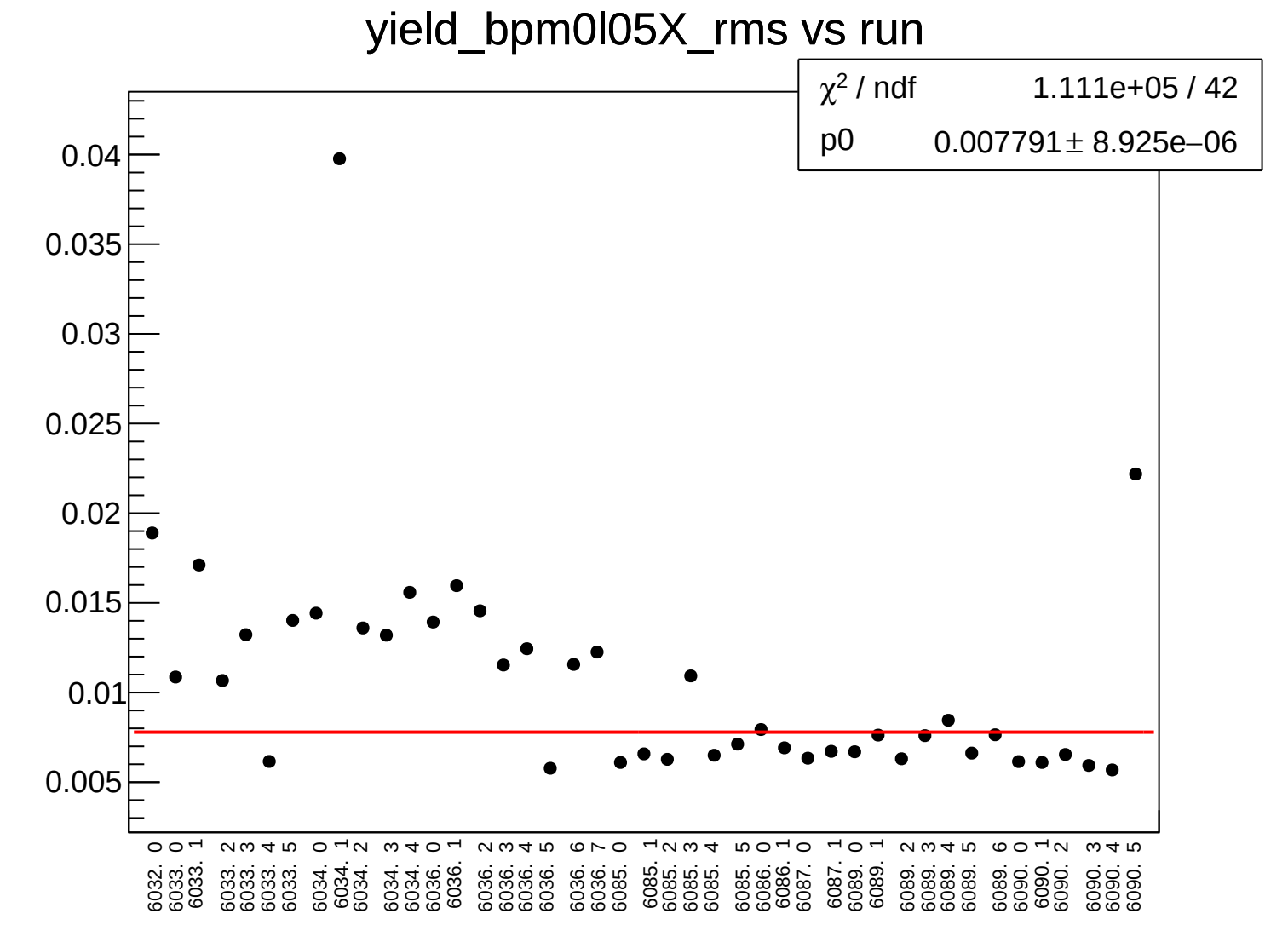

yield_bpm0l04Y_mean vs run
χ² / ndf 5.302e+06 / 42
p0 0.9337 ± 4.99e−06
0.95
0.94
0.93
0.92
0.91
0.9
0.89
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −74
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

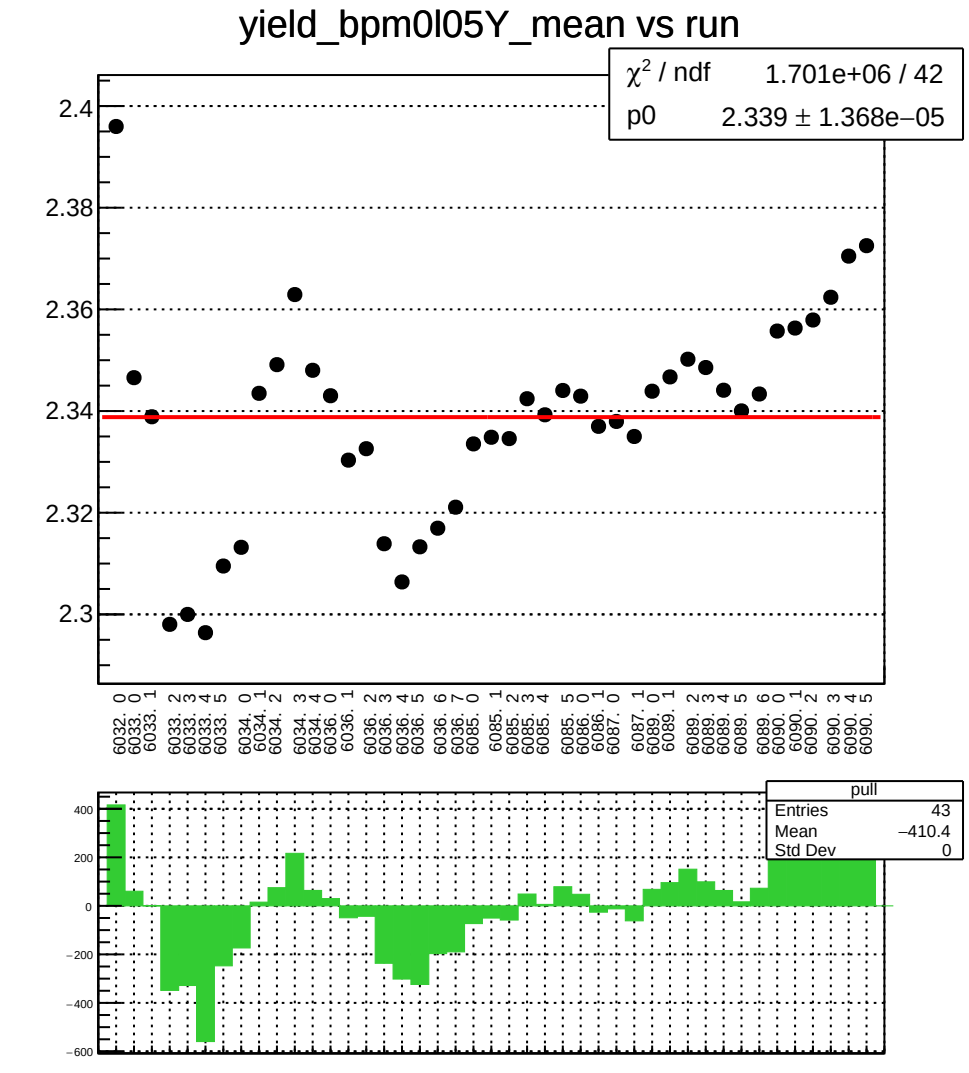

pull1D
Entries 43
Mean 3.419
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

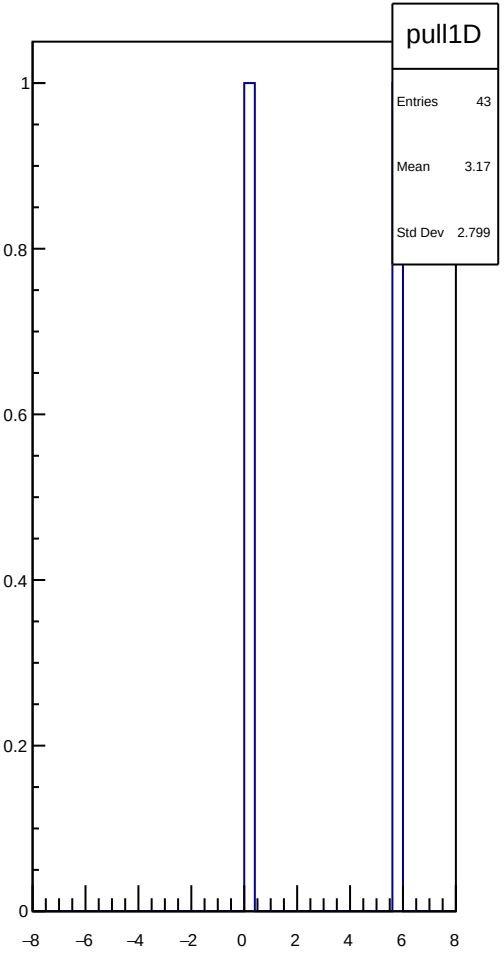

yield_bpm0l04Y_rms vs run
χ² / ndf 2.56e+04 / 42
p0 0.003248 ± 3.529e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

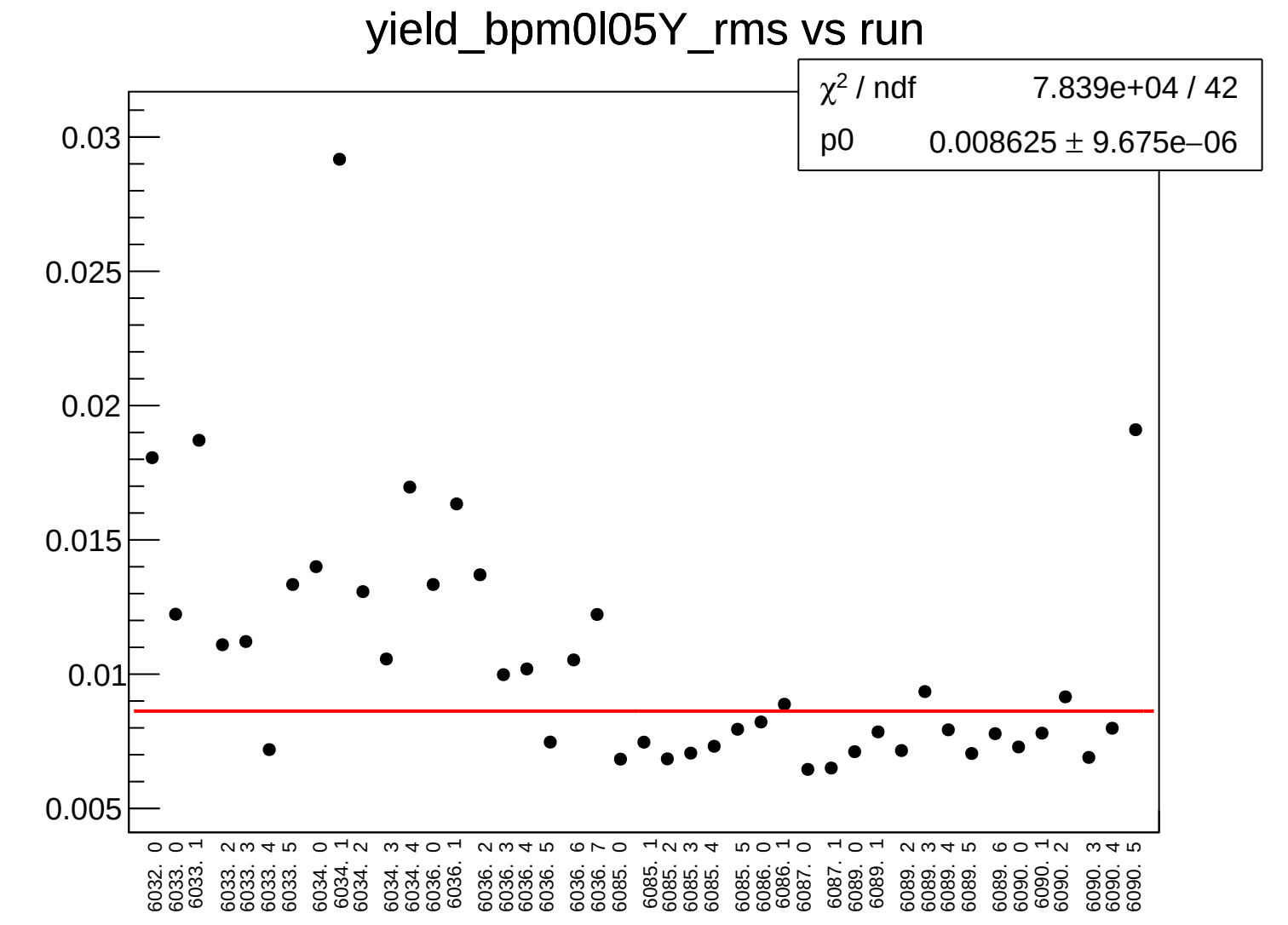

yield_bpm0l05X_mean vs run
χ² / ndf 2.122e+07 / 42
p0 0.2063 ± 1.262e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.39
Std Dev 0
500
0
−500
−1000
−1500
−2000

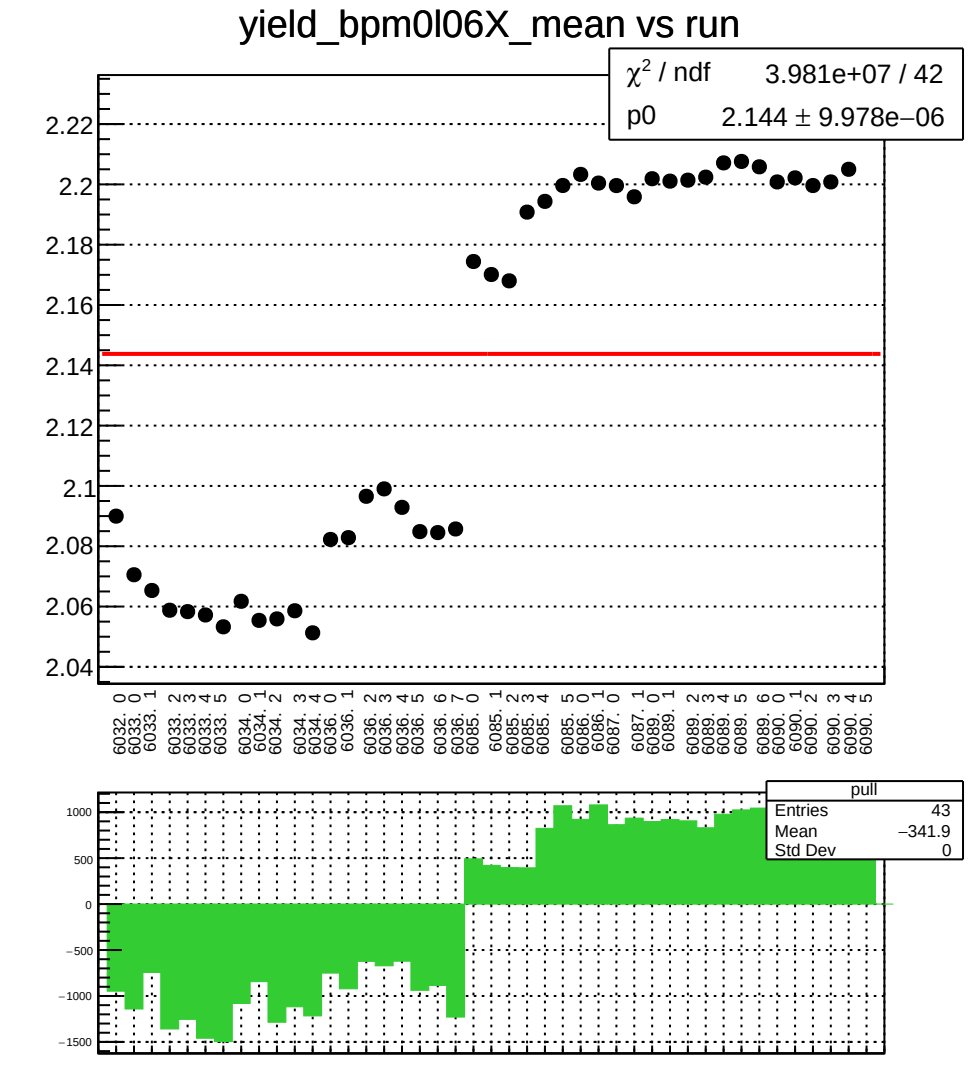

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

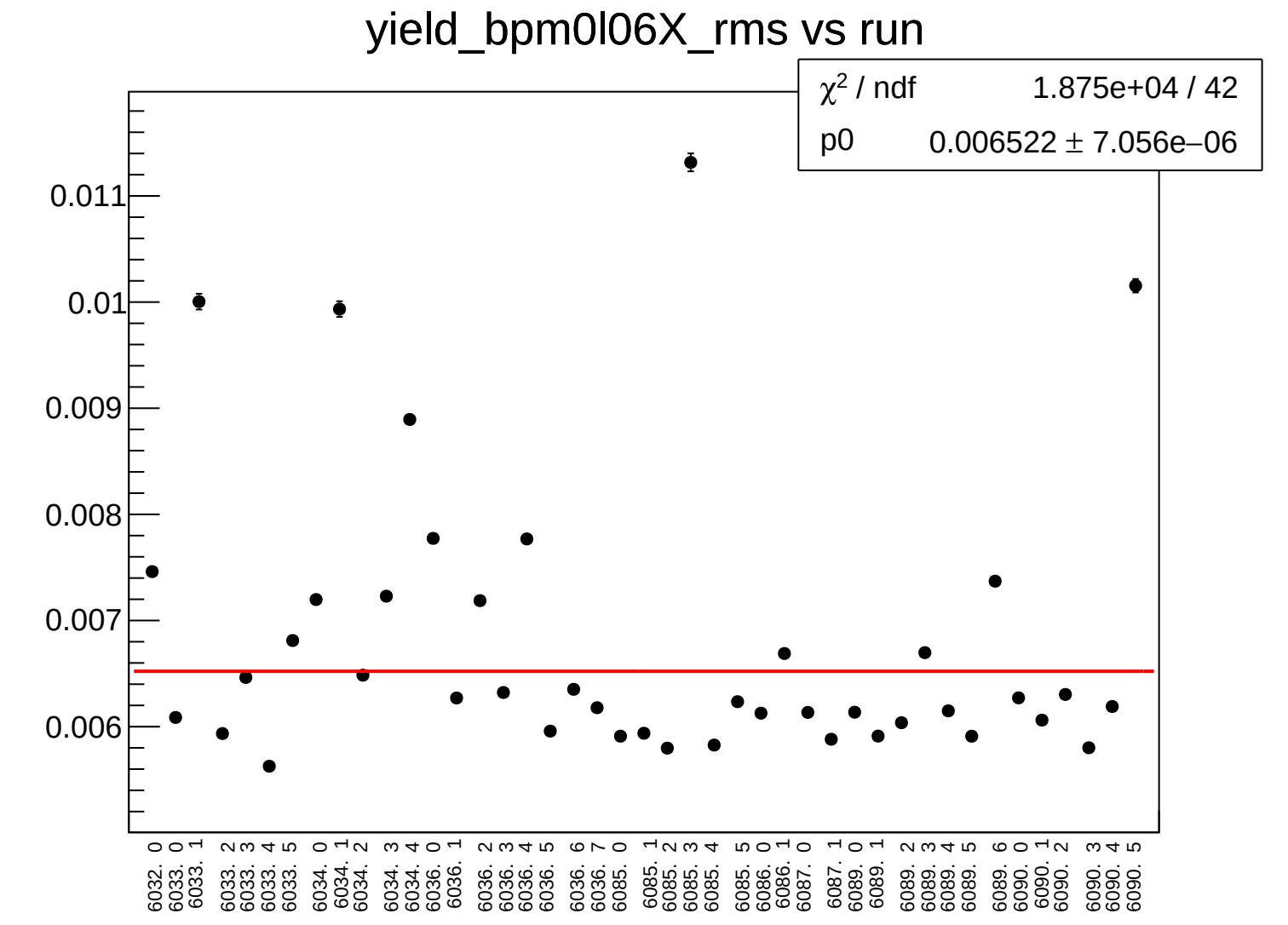

yield_bpm0l05X_rms vs run
χ² / ndf 1.111e+05 / 42
p0 0.007791 ± 8.925e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

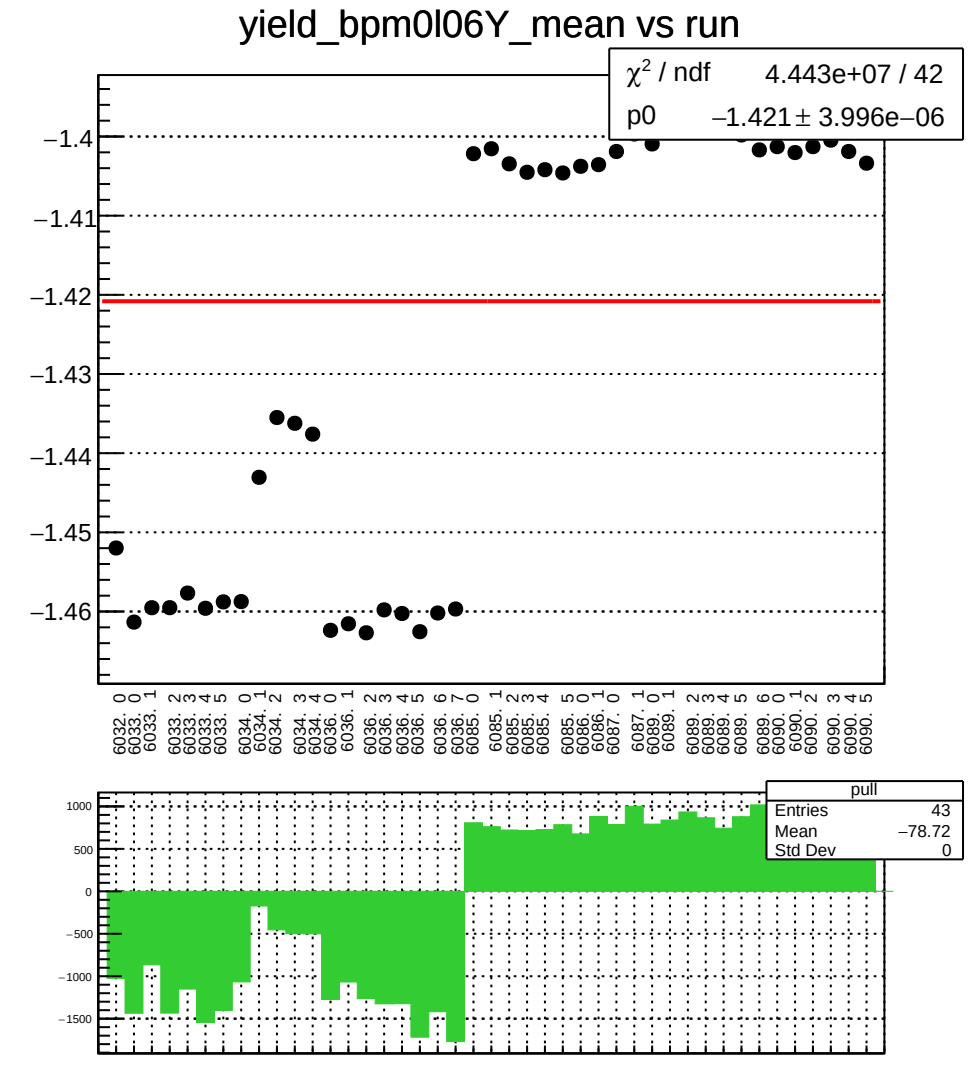

yield_bpm0l05Y_mean vs run
χ² / ndf 1.701e+06 / 42
p0 2.339 ± 1.368e−05
2.4
2.38
2.36
2.34
2.32
2.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −410.4
Std Dev 0
400
200
0
−200
−400
−600

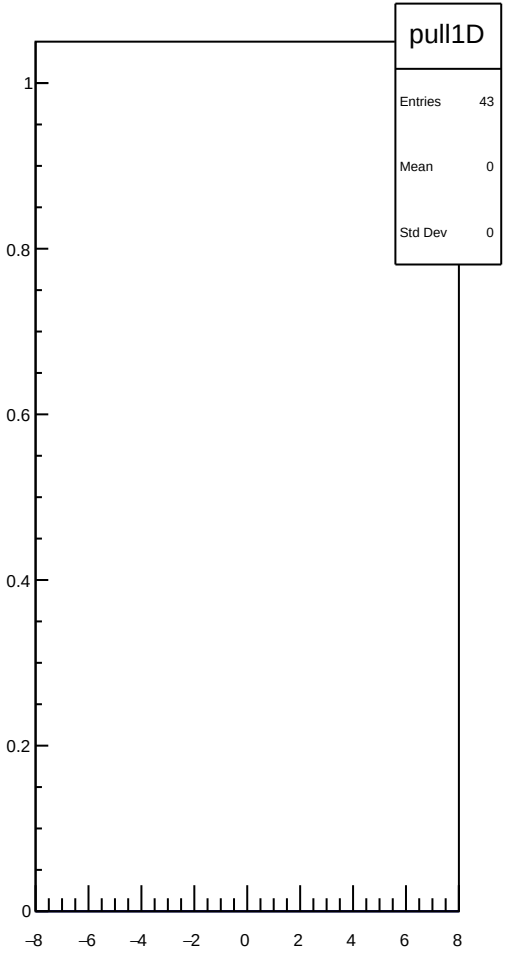

pull1D
Entries 43
Mean 3.17
Std Dev 2.799
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

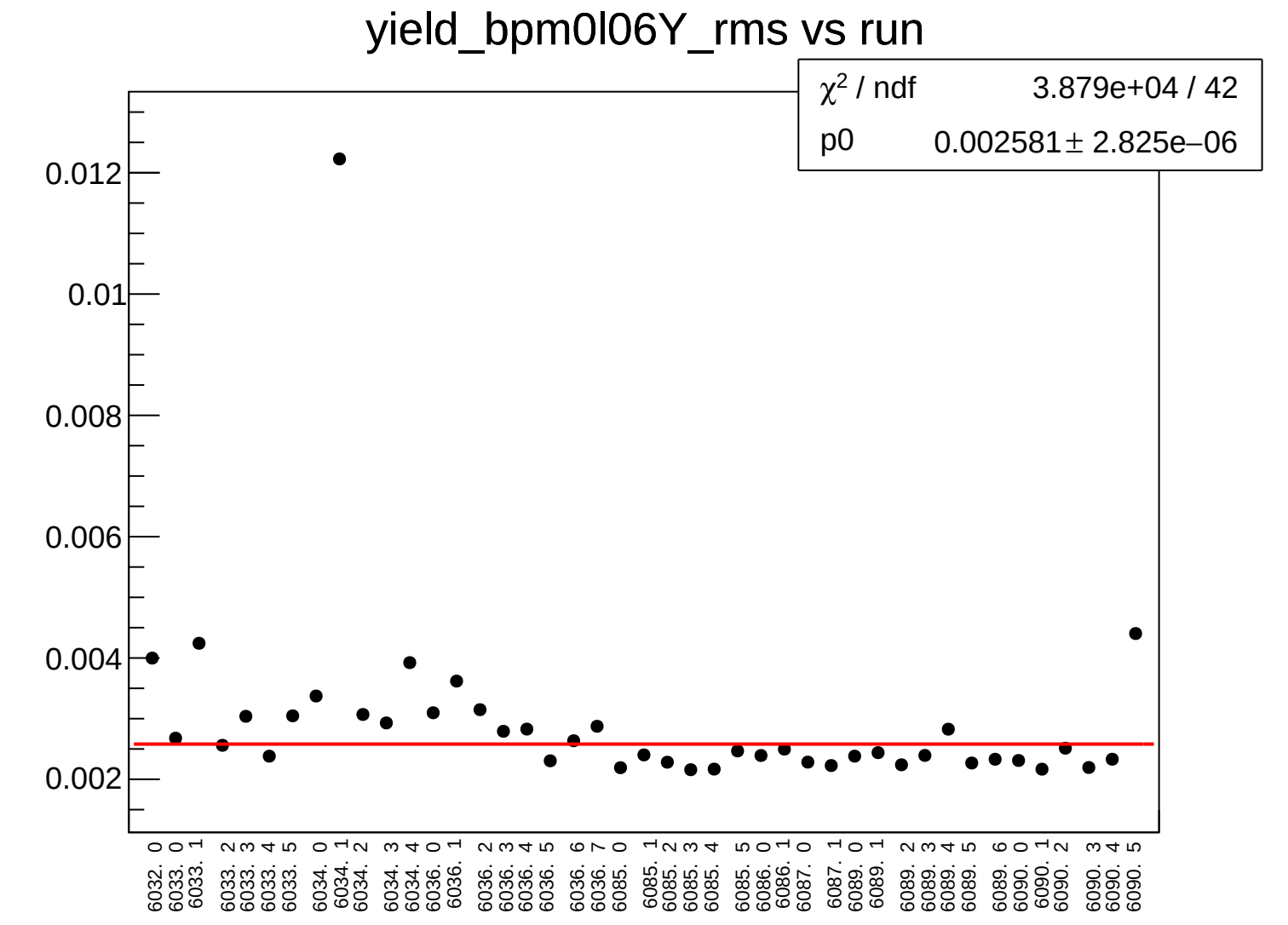

yield_bpm0l05Y_rms vs run
χ² / ndf 7.839e+04 / 42
p0 0.008625 ± 9.675e−06
0.03
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

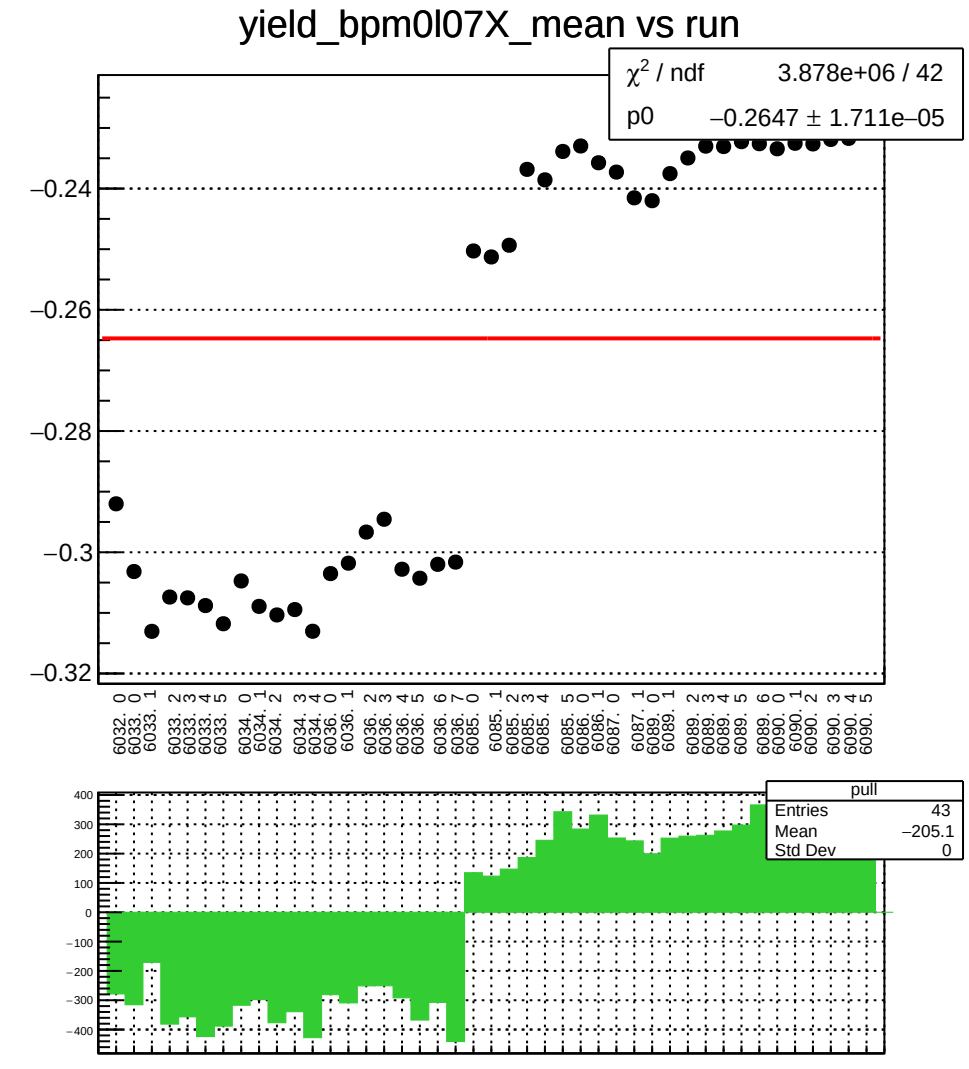

yield_bpm0l06X_mean vs run
χ² / ndf 3.981e+07 / 42
p0 2.144 ± 9.978e−06
2.22
2.2
2.18
2.16
2.14
2.12
2.1
2.08
2.06
2.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −341.9
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

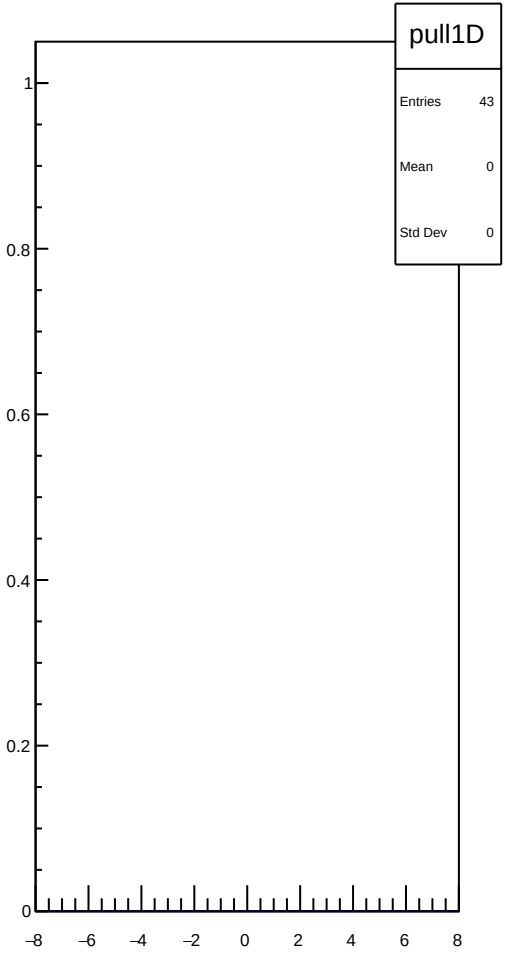

yield_bpm0l06X_rms vs run
χ² / ndf 1.875e+04 / 42
p0 0.006522 ± 7.056e−06
0.011
0.01
0.009
0.008
0.007
0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

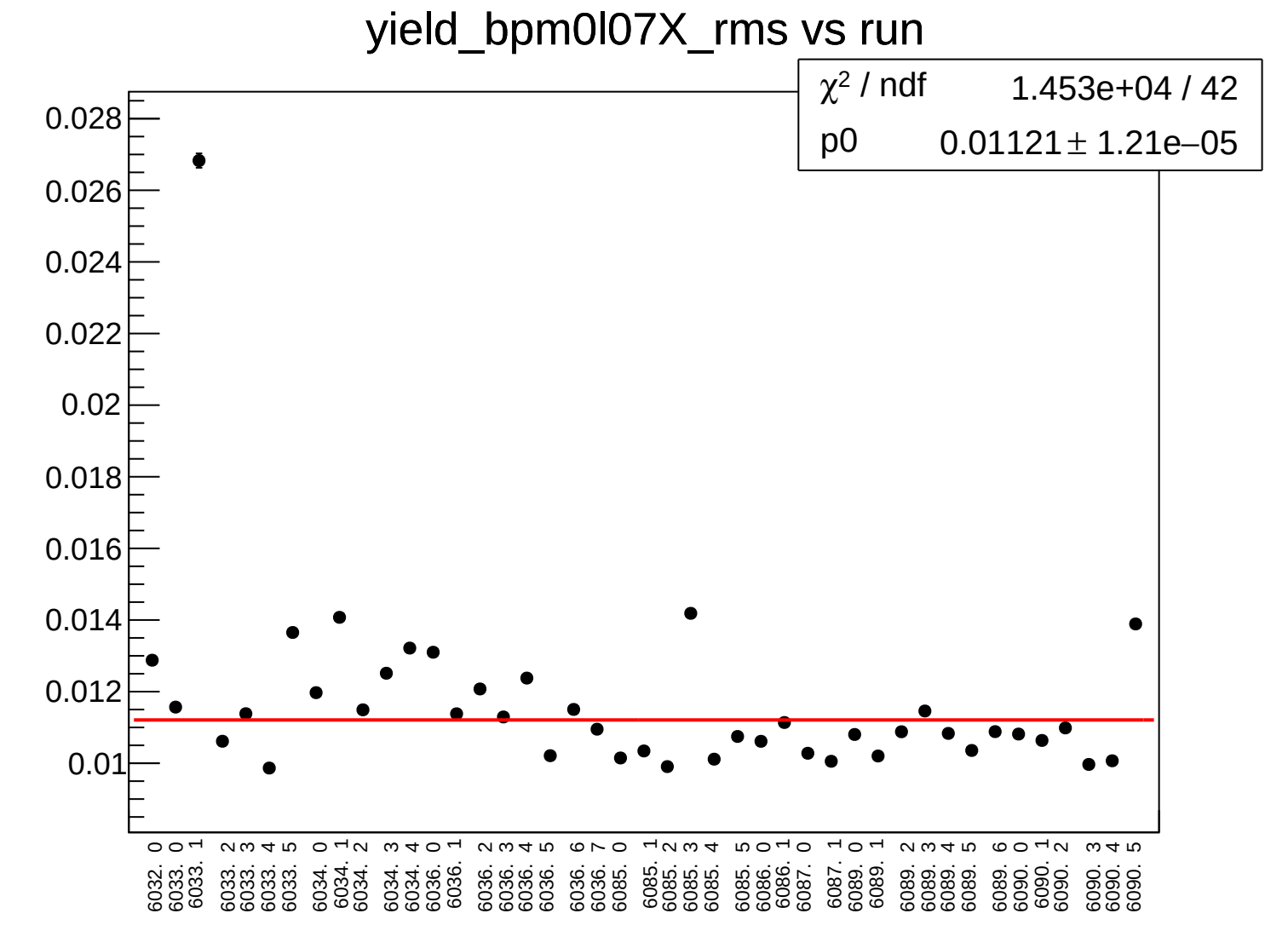

yield_bpm0l06Y_mean vs run
χ² / ndf 4.443e+07 / 42
p0 −1.421 ± 3.996e−06
−1.4
−1.41
−1.42
−1.43
−1.44
−1.45
−1.46
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −78.72
Std Dev 0
1000
500
0
−500
−1000
−1500

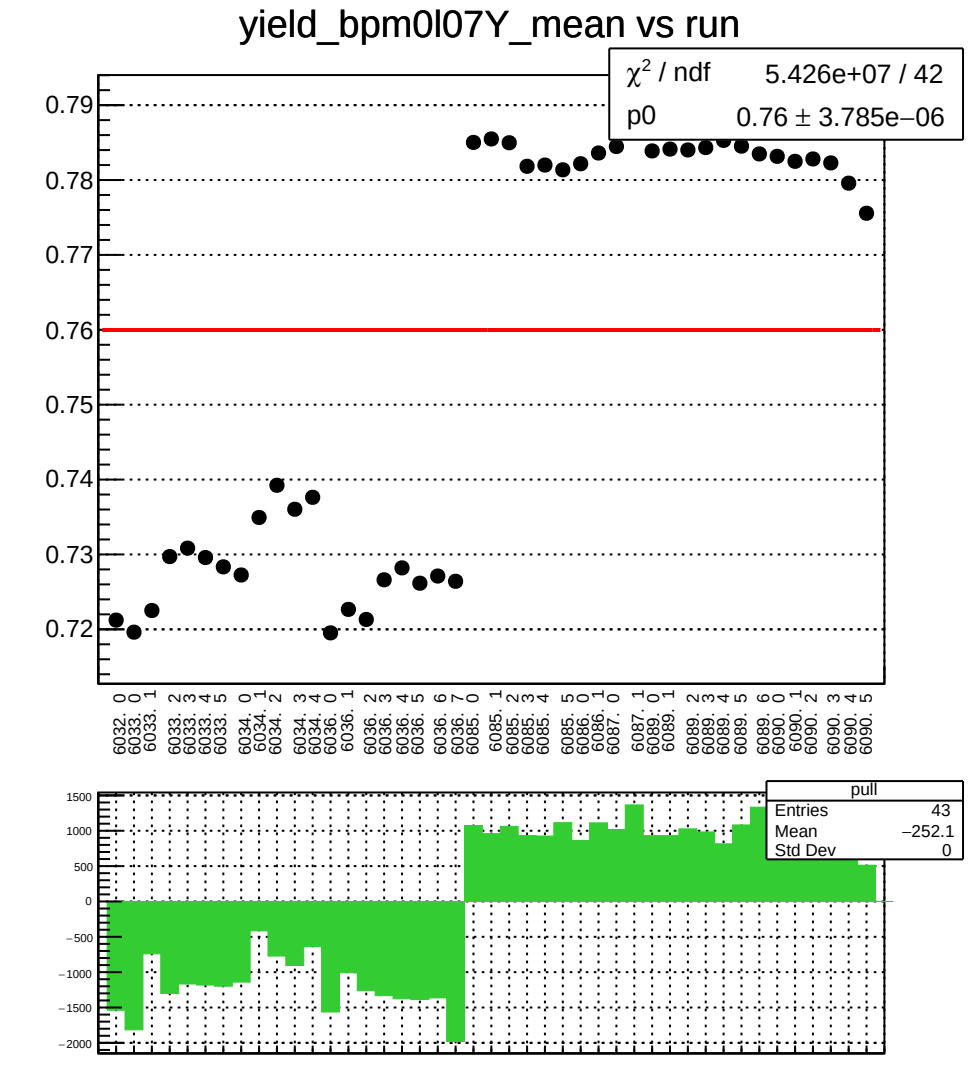

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

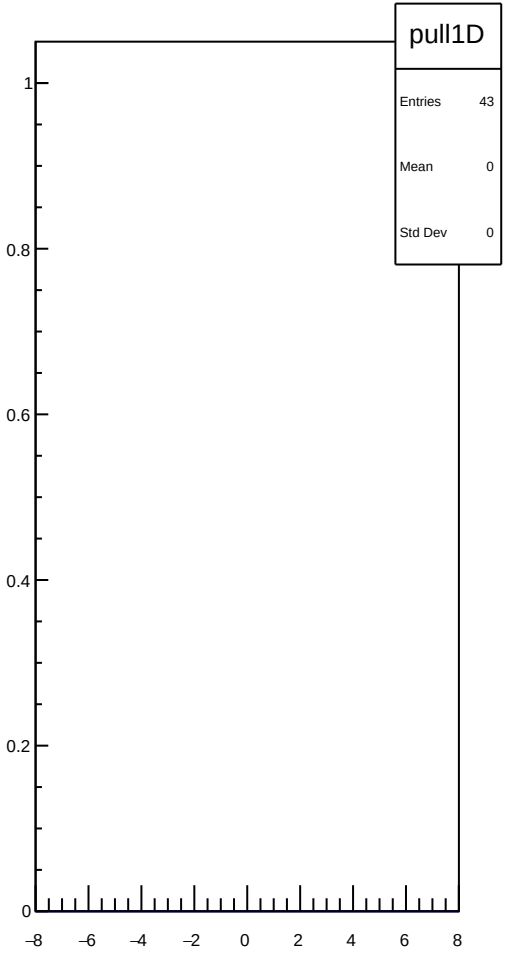

yield_bpm0l06Y_rms vs run
χ² / ndf 3.879e+04 / 42
p0 0.002581 ± 2.825e−06
0.012
0.01
0.008
0.006
0.004
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

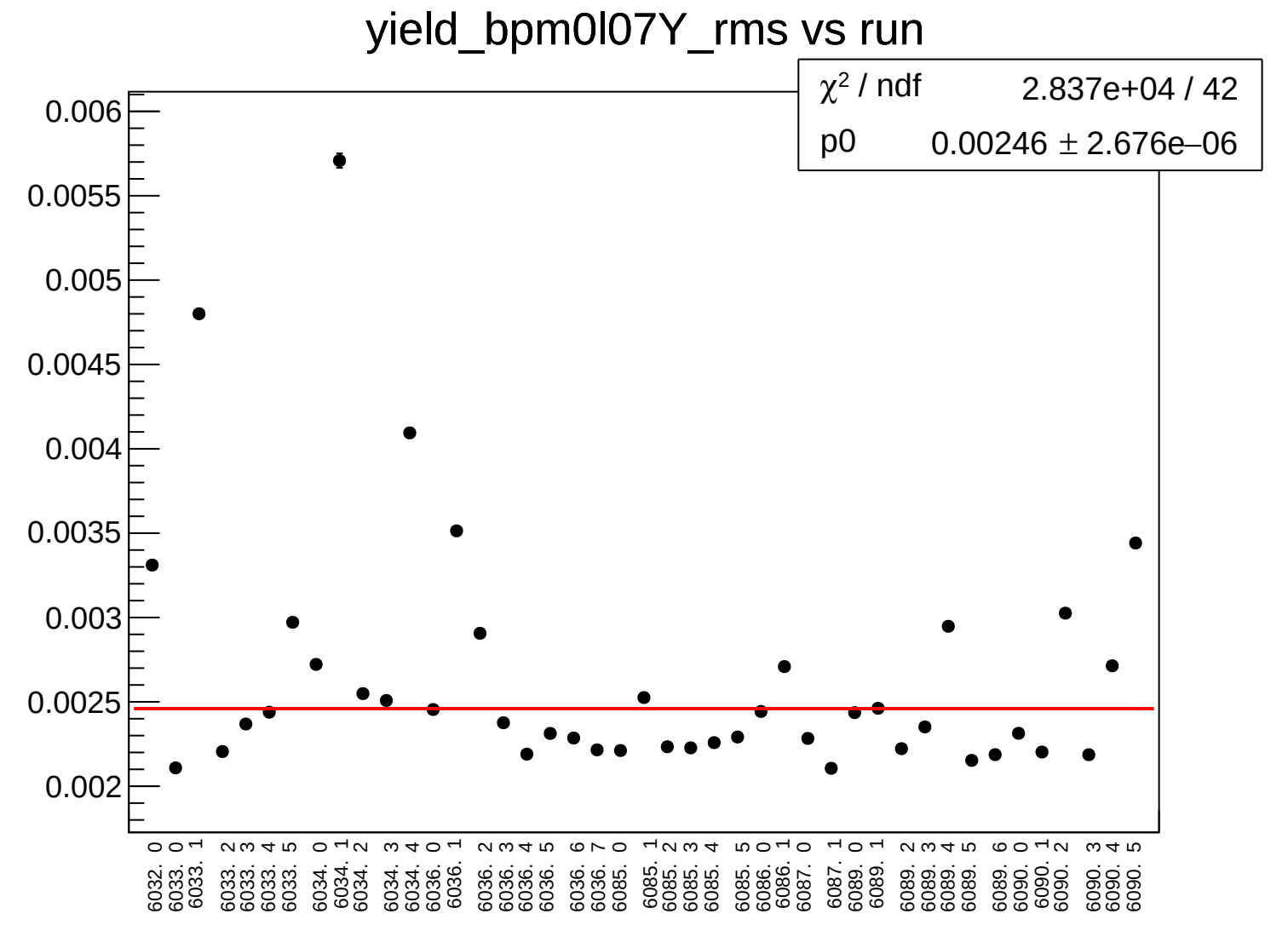

yield_bpm0l07X_mean vs run
χ² / ndf 3.878e+06 / 42
p0 −0.2647 ± 1.711e−05
−0.24
−0.26
−0.28
−0.3
−0.32
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −205.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

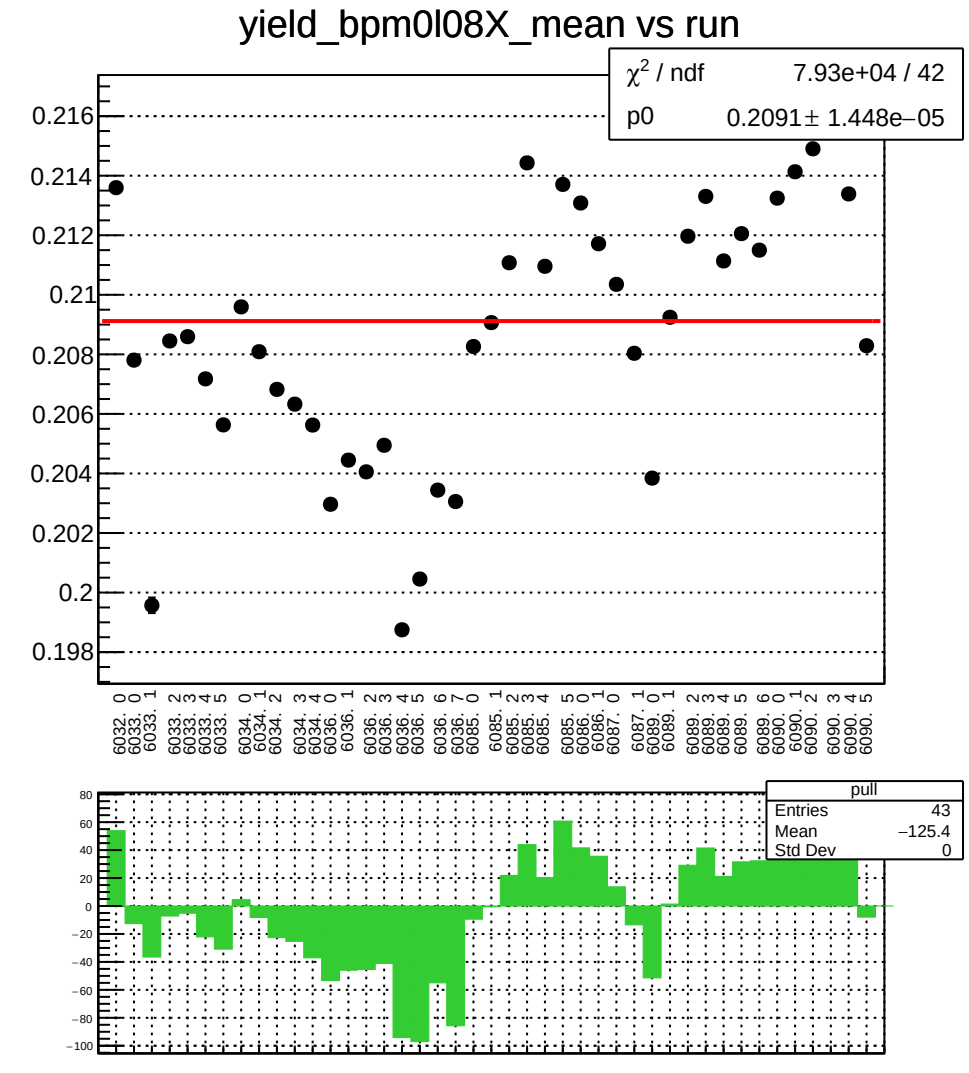

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

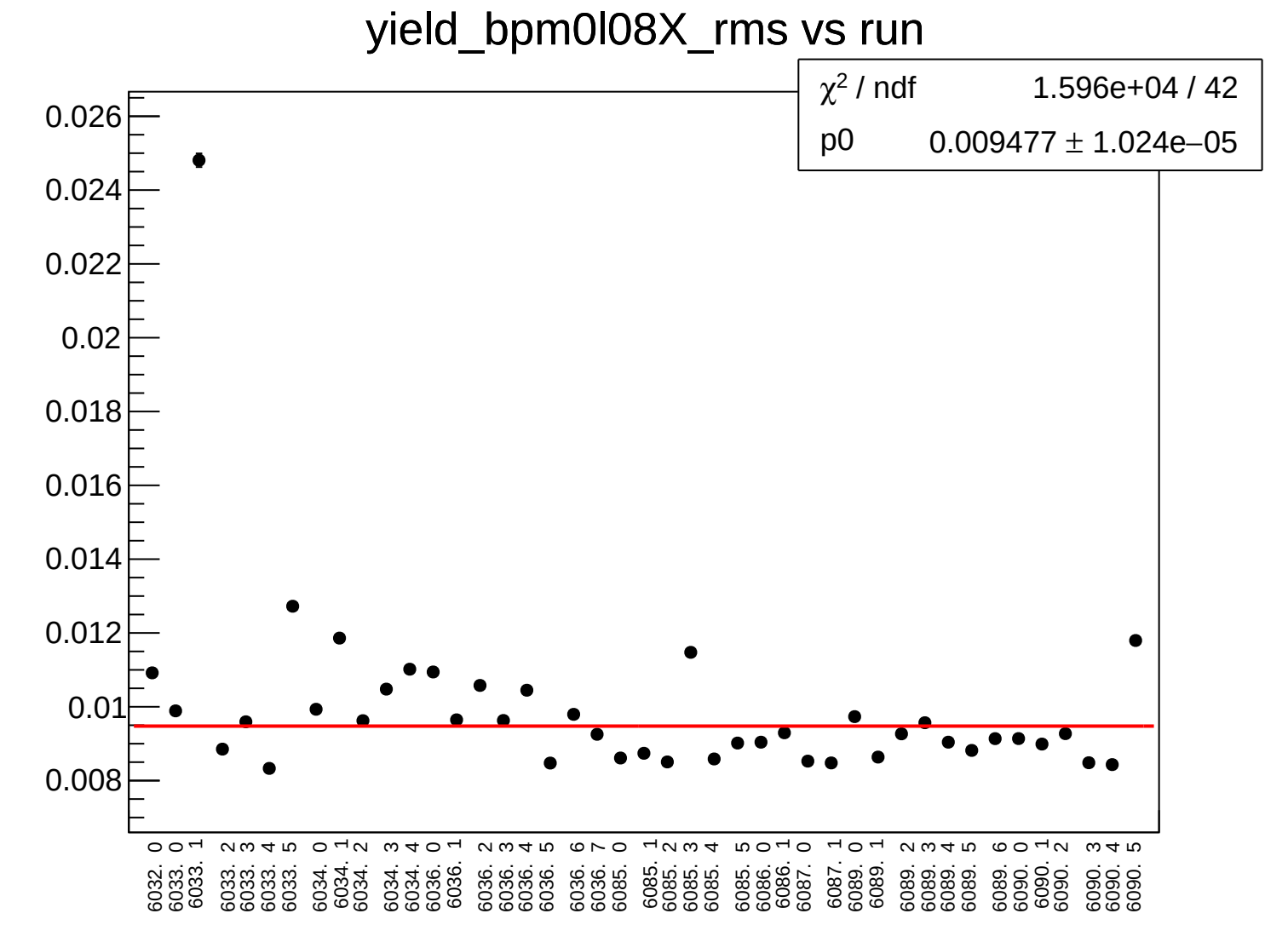

yield_bpm0l07X_rms vs run
χ² / ndf 1.453e+04 / 42
p0 0.01121 ± 1.21e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

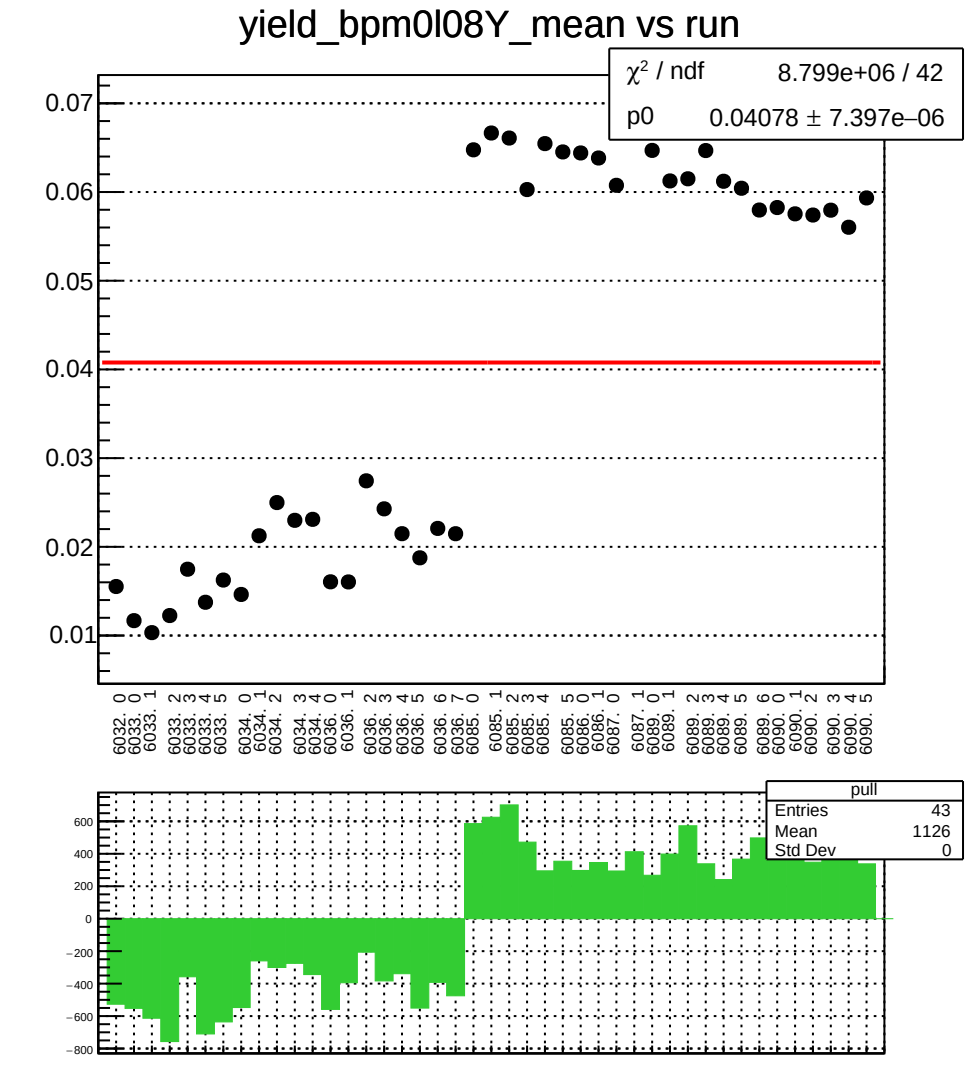

yield_bpm0l07Y_mean vs run
χ² / ndf 5.426e+07 / 42
p0 0.76 ± 3.785e−06
0.79
0.78
0.77
0.76
0.75
0.74
0.73
0.72
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −252.1
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

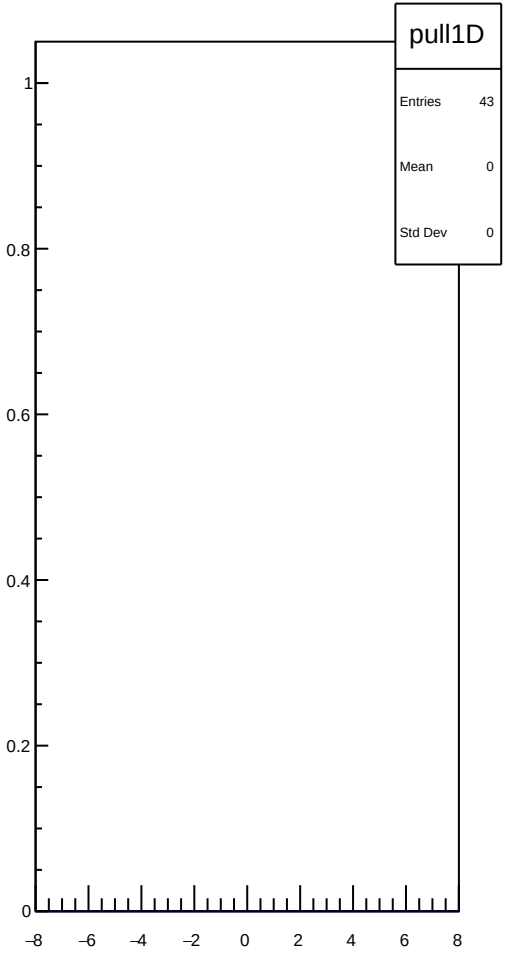

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

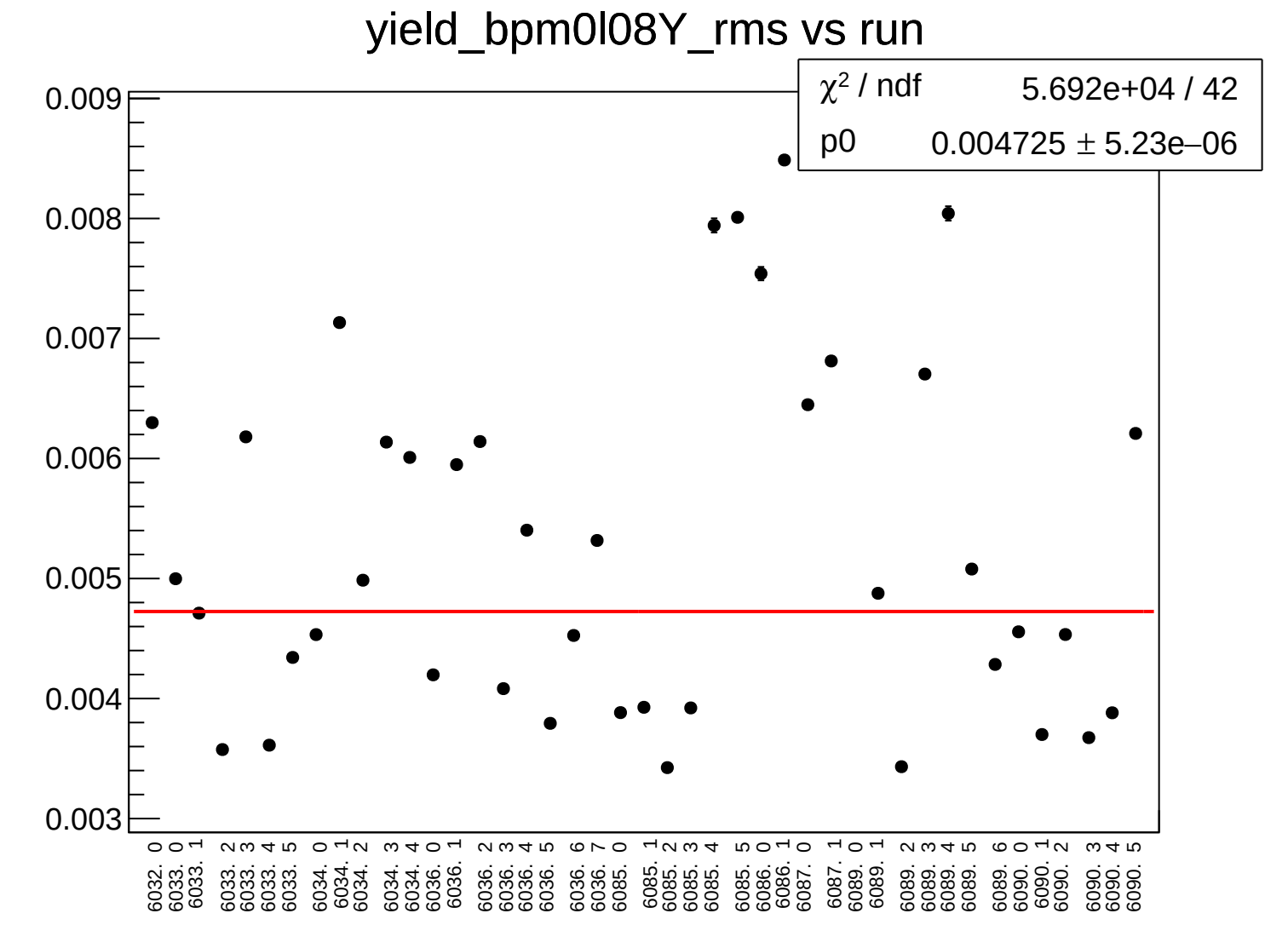

yield_bpm0l07Y_rms vs run
χ² / ndf 2.837e+04 / 42
p0 0.00246 ± 2.676e–06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

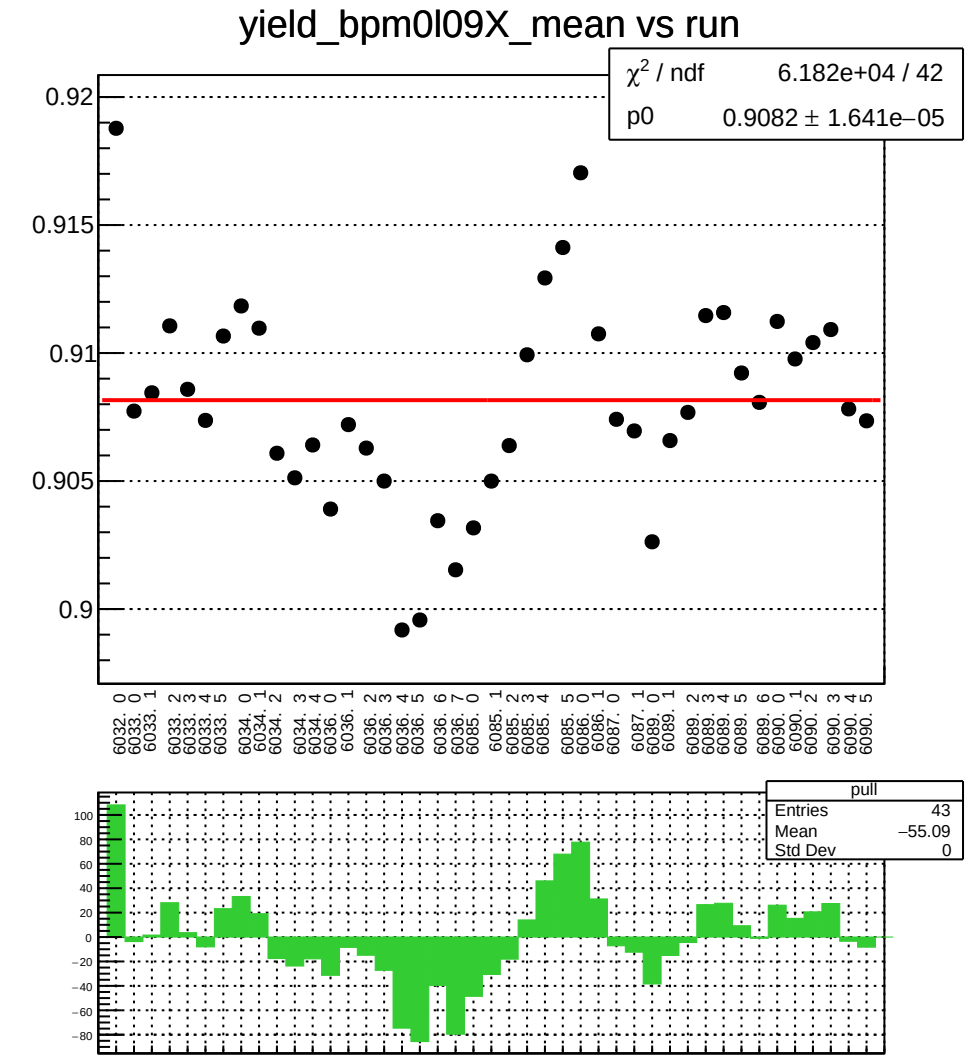

yield_bpm0l08X_mean vs run
χ² / ndf 7.93e+04 / 42
p0 0.2091 ± 1.448e−05
0.216
0.214
0.212
0.21
0.208
0.206
0.204
0.202
0.2
0.198
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −125.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 43
Mean −2.485
Std Dev 4.602
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

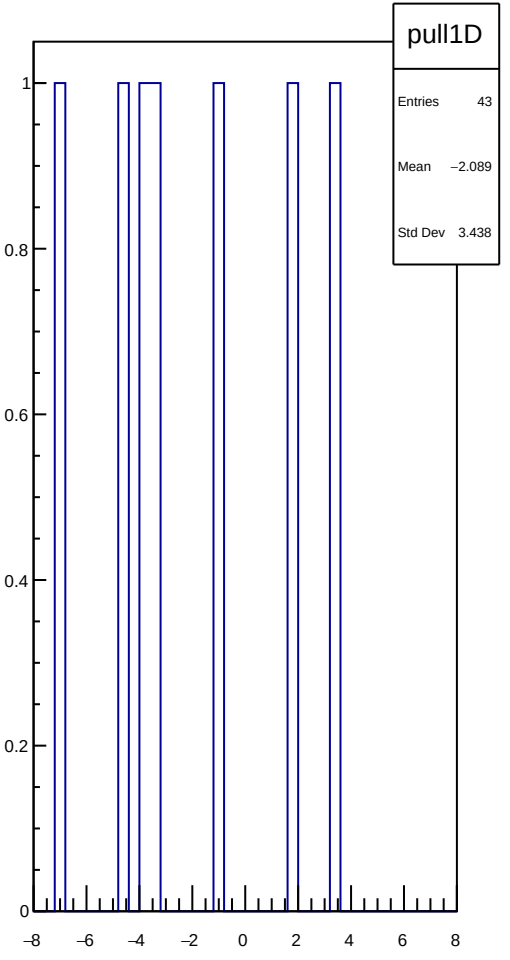

yield_bpm0l08X_rms vs run
χ² / ndf 1.596e+04 / 42
p0 0.009477 ± 1.024e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

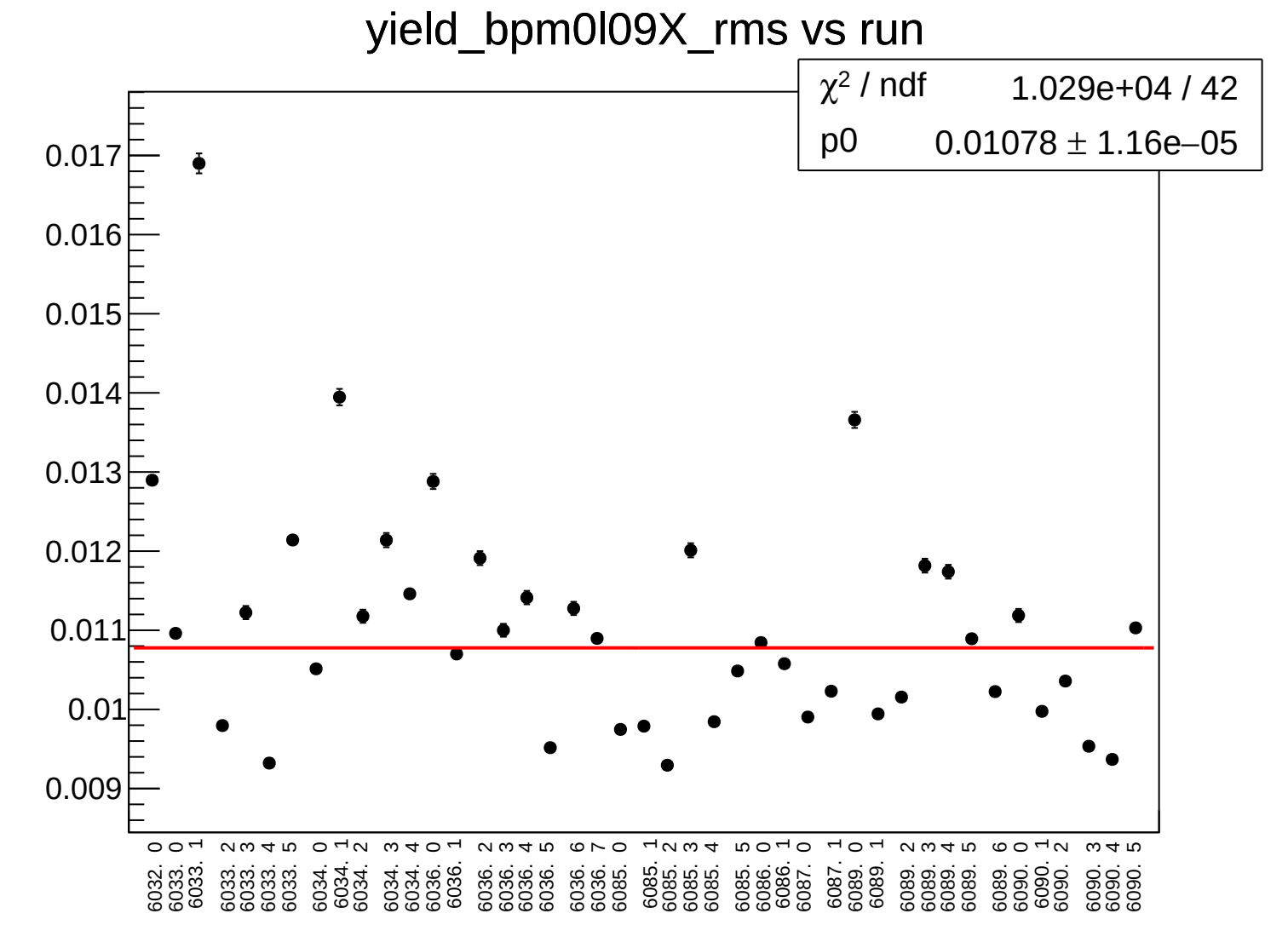

yield_bpm0l08Y_mean vs run
χ² / ndf 8.799e+06 / 42
p0 0.04078 ± 7.397e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1126
Std Dev 0
600
400
200
0
−200
−400
−600
−800

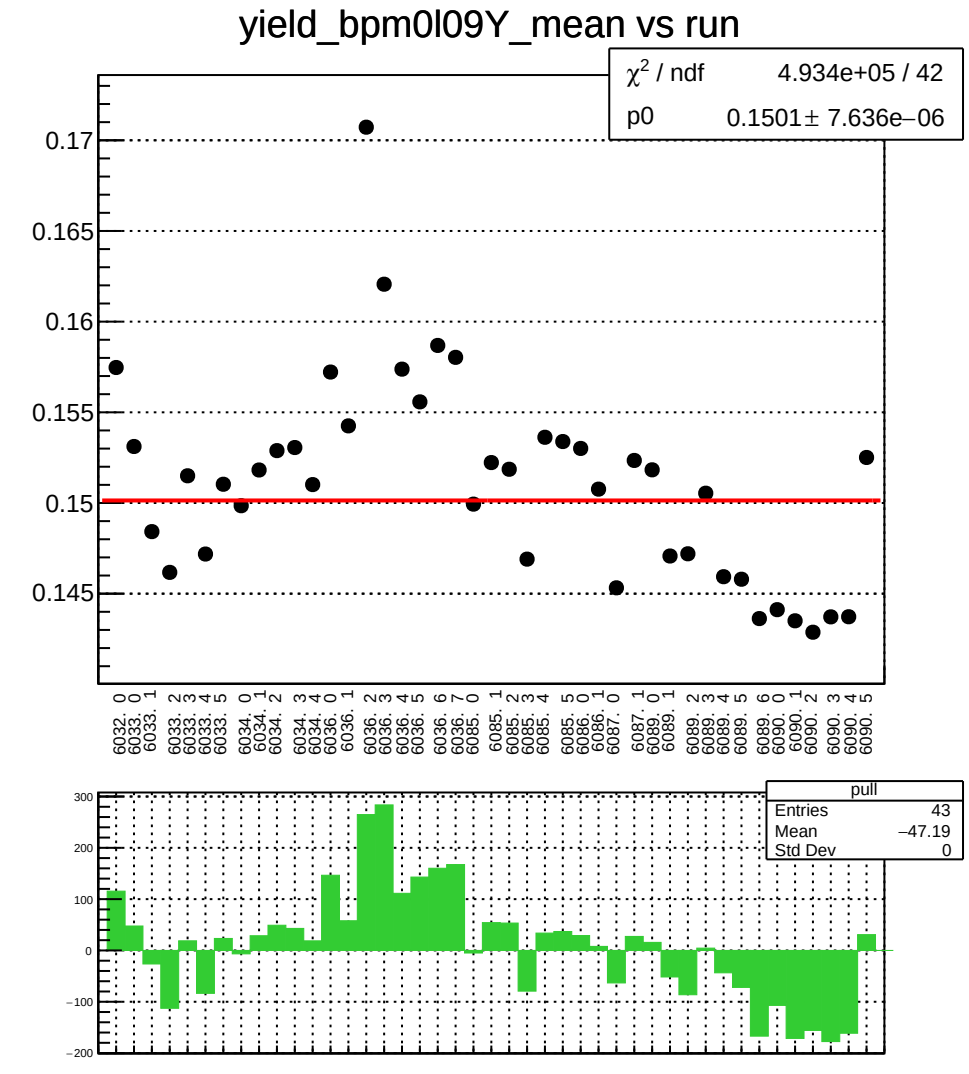

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

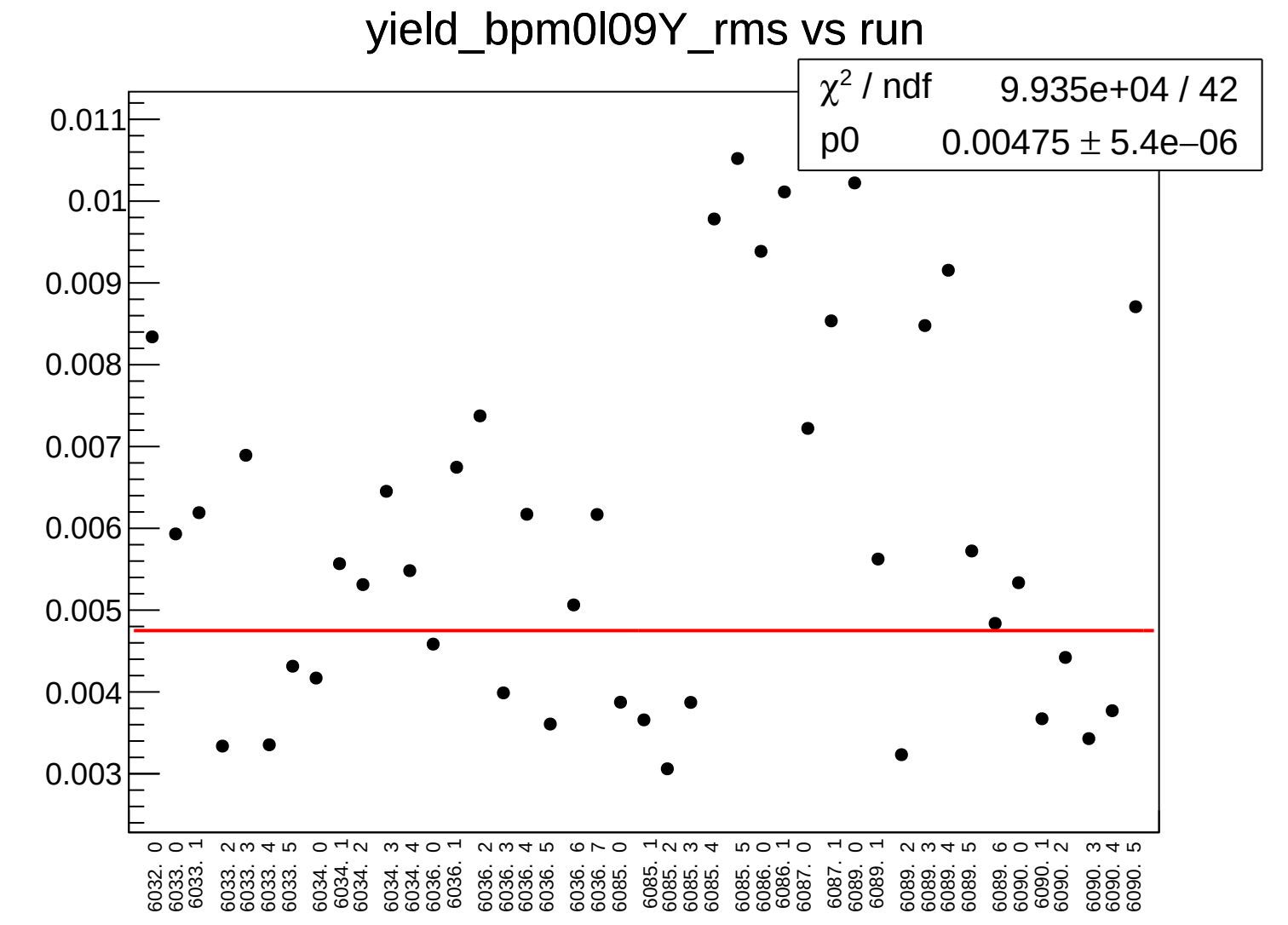

yield_bpm0l08Y_rms vs run
χ² / ndf 5.692e+04 / 42
p0 0.004725 ± 5.23e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

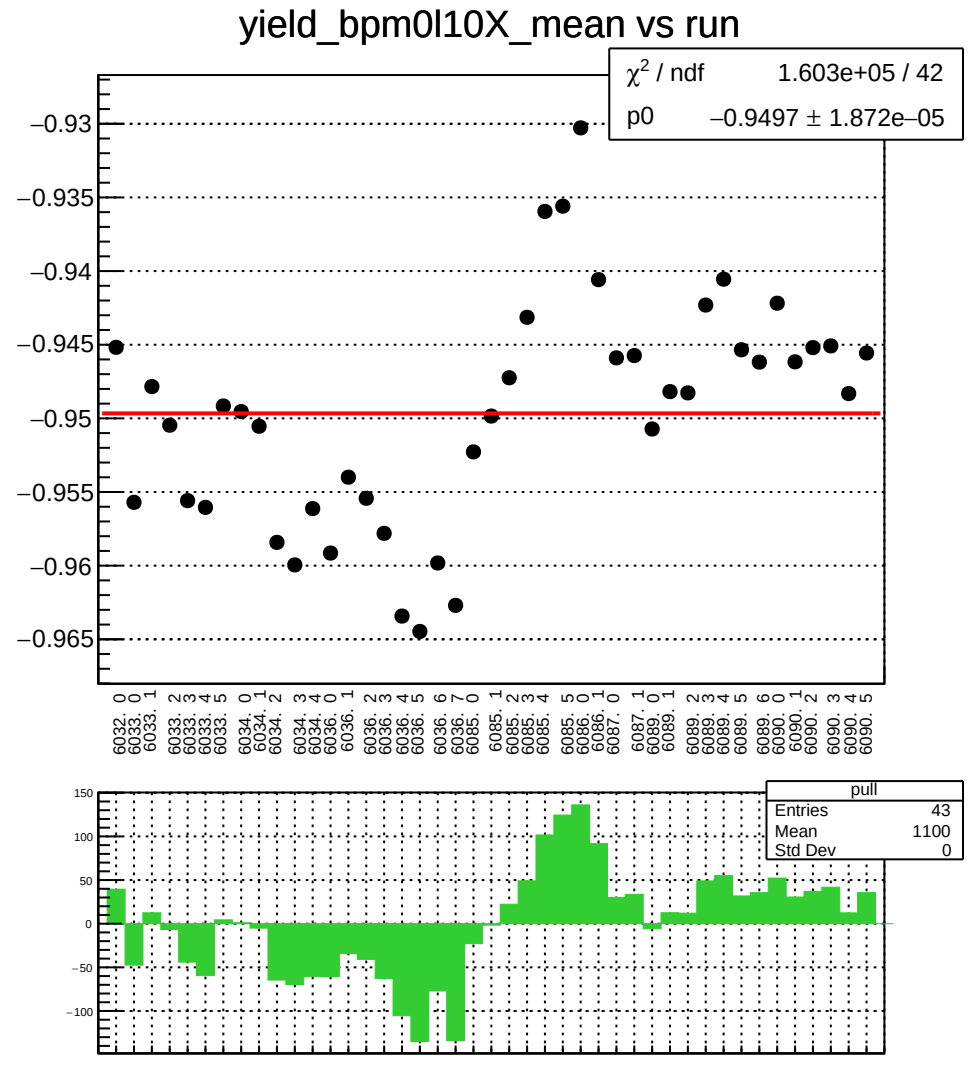

yield_bpm0l09X_mean vs run
χ² / ndf 6.182e+04 / 42
p0 0.9082 ± 1.641e−05
0.92
0.915
0.91
0.905
0.9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −55.09
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

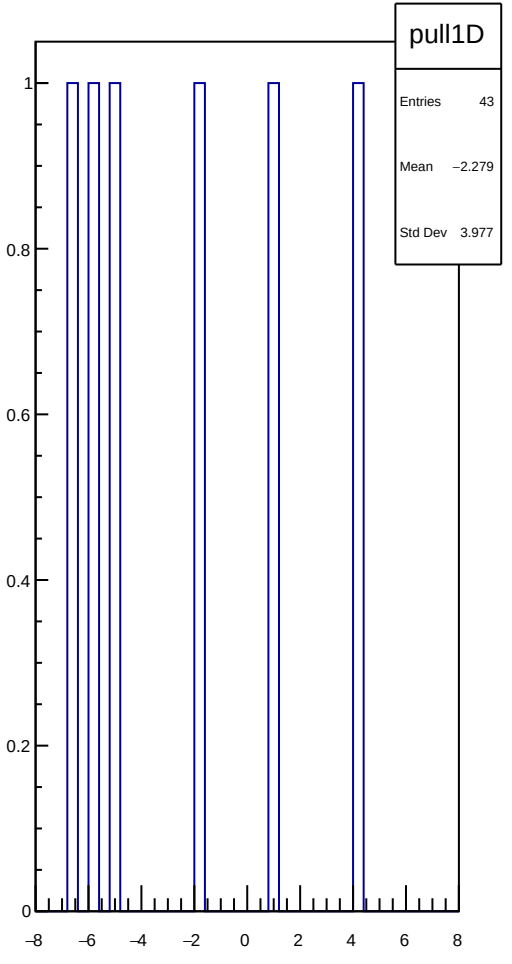

pull1D
Entries 43
Mean −2.089
Std Dev 3.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

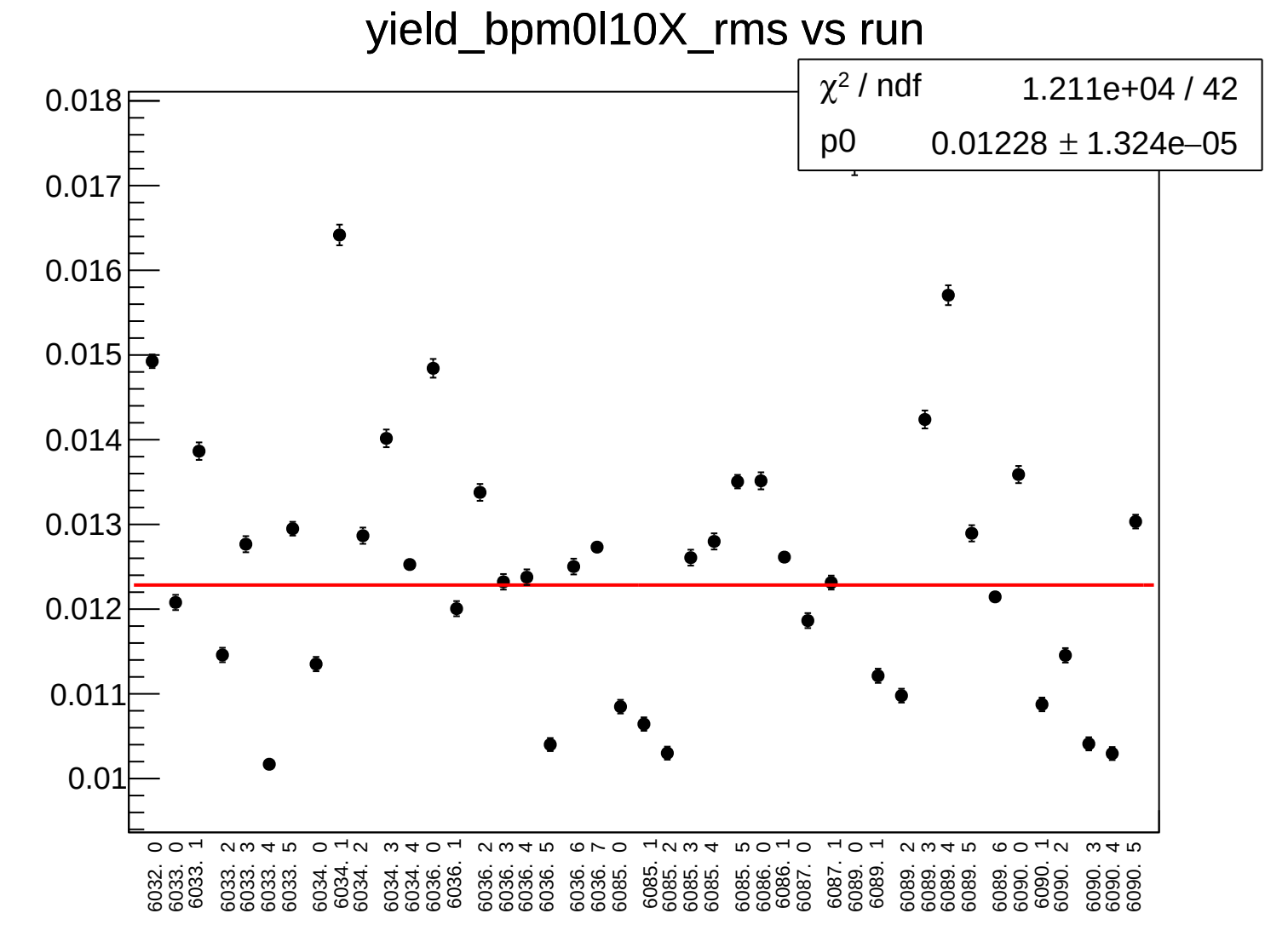

yield_bpm0l09X_rms vs run
χ² / ndf 1.029e+04 / 42
p0 0.01078 ± 1.16e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

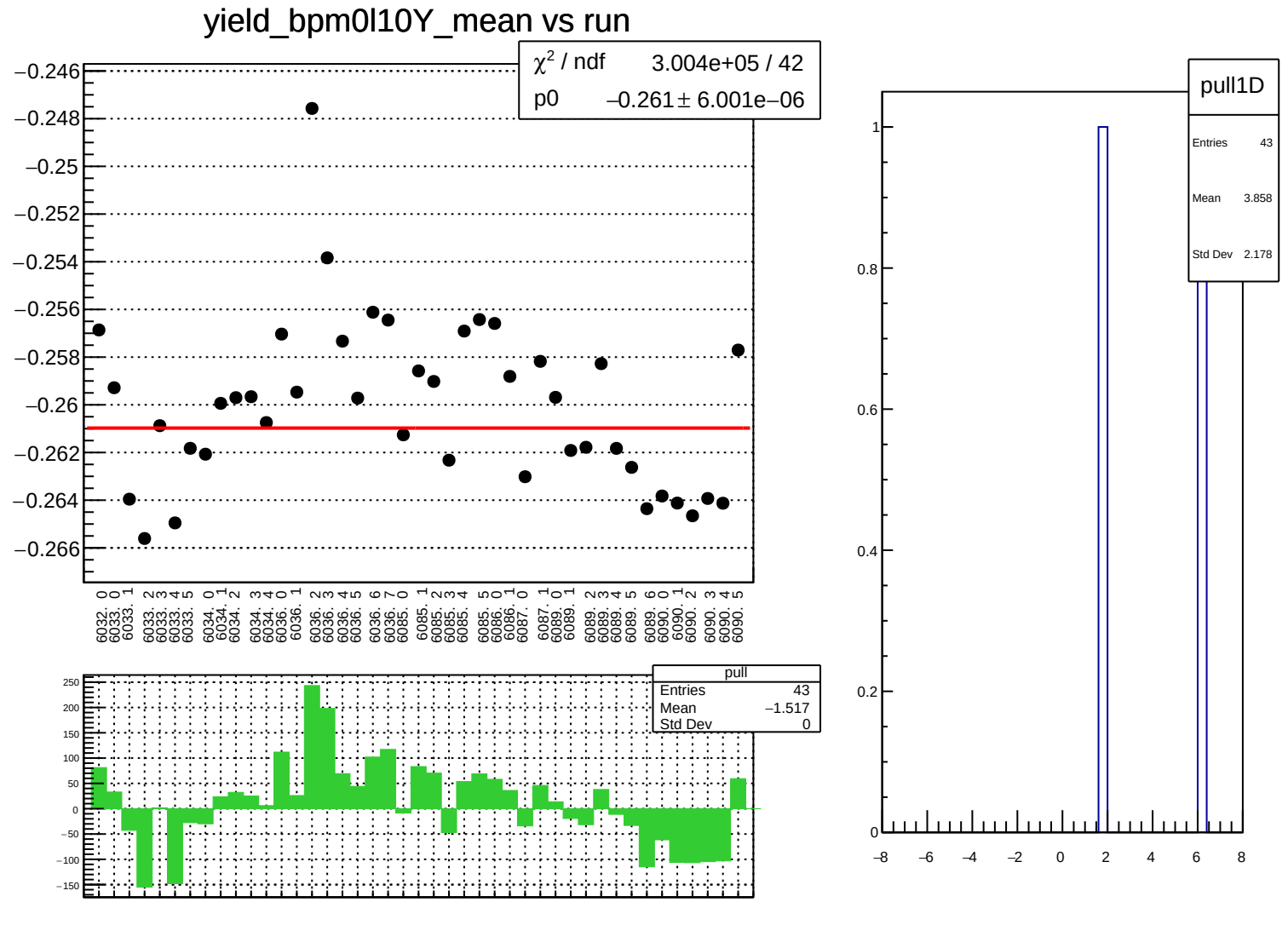

yield_bpm0l09Y_mean vs run
χ² / ndf 4.934e+05 / 42
p0 0.1501 ± 7.636e−06
0.17
0.165
0.16
0.155
0.15
0.145
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −47.19
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 43
Mean 0.1983
Std Dev 6.121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

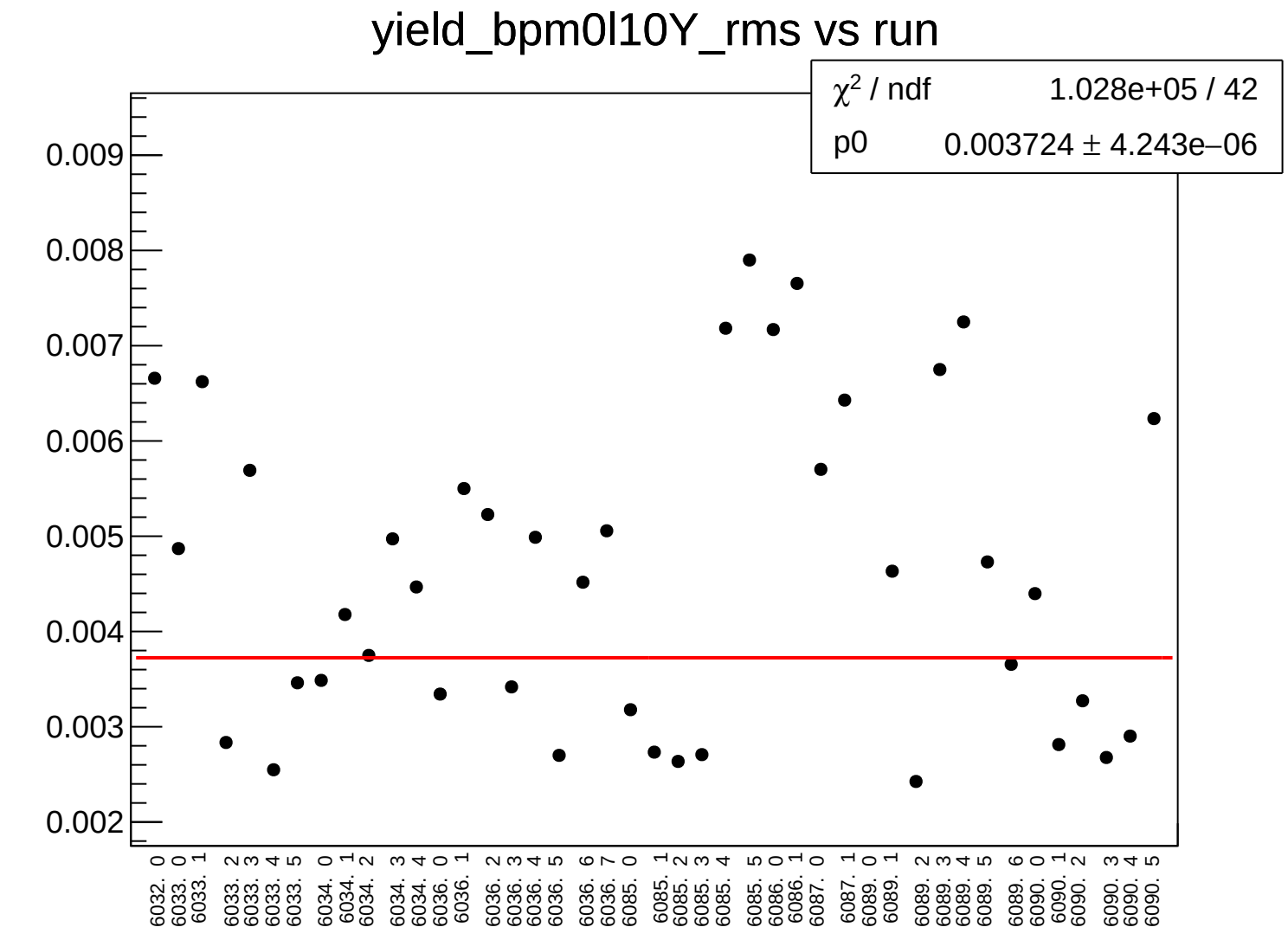

yield_bpm0l09Y_rms vs run
χ² / ndf 9.935e+04 / 42
p0 0.00475 ± 5.4e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

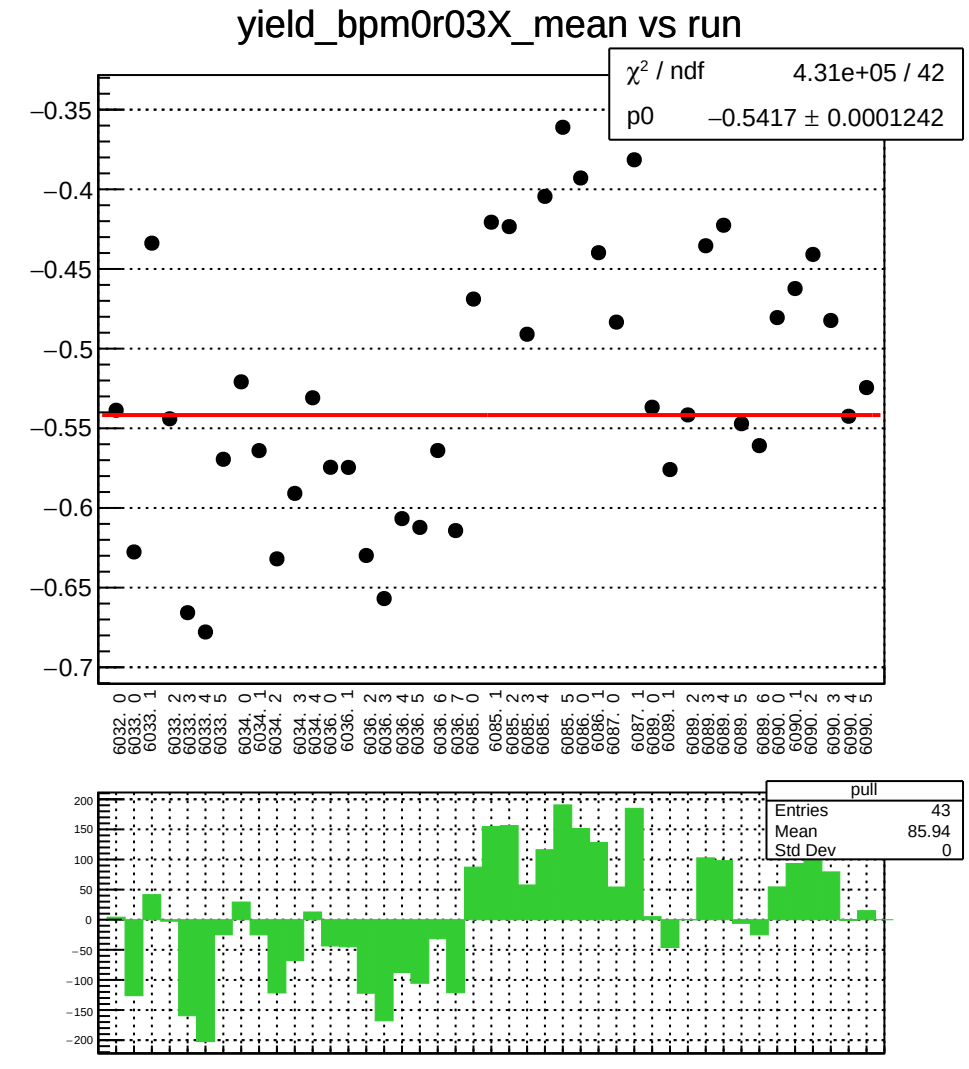

yield_bpm0l10X_mean vs run
χ² / ndf 1.603e+05 / 42
p0 −0.9497 ± 1.872e−05
−0.93
−0.935
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1100
Std Dev 0
150
100
50
0
−50
−100

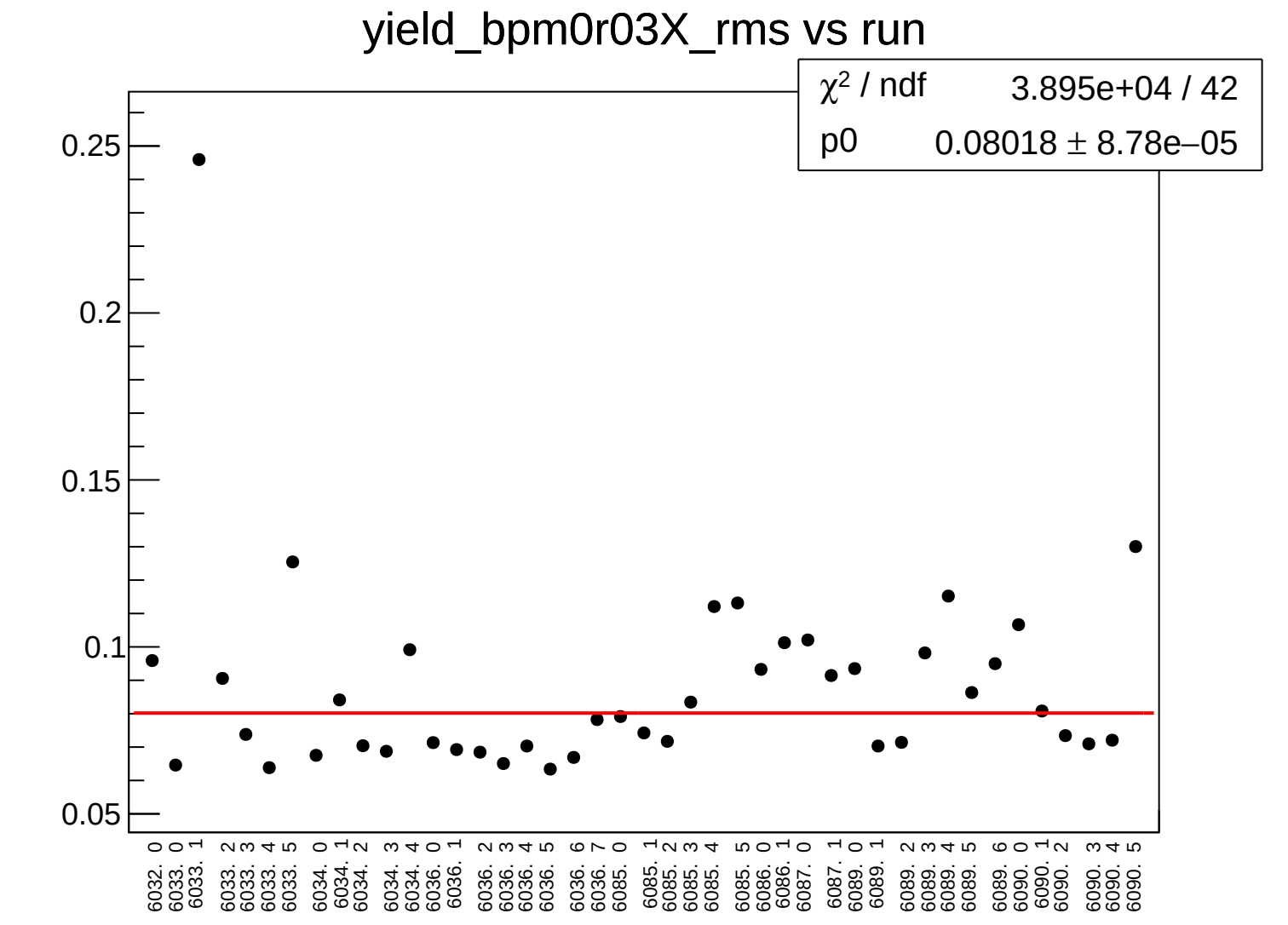

pull1D
Entries 43
Mean −2.279
Std Dev 3.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

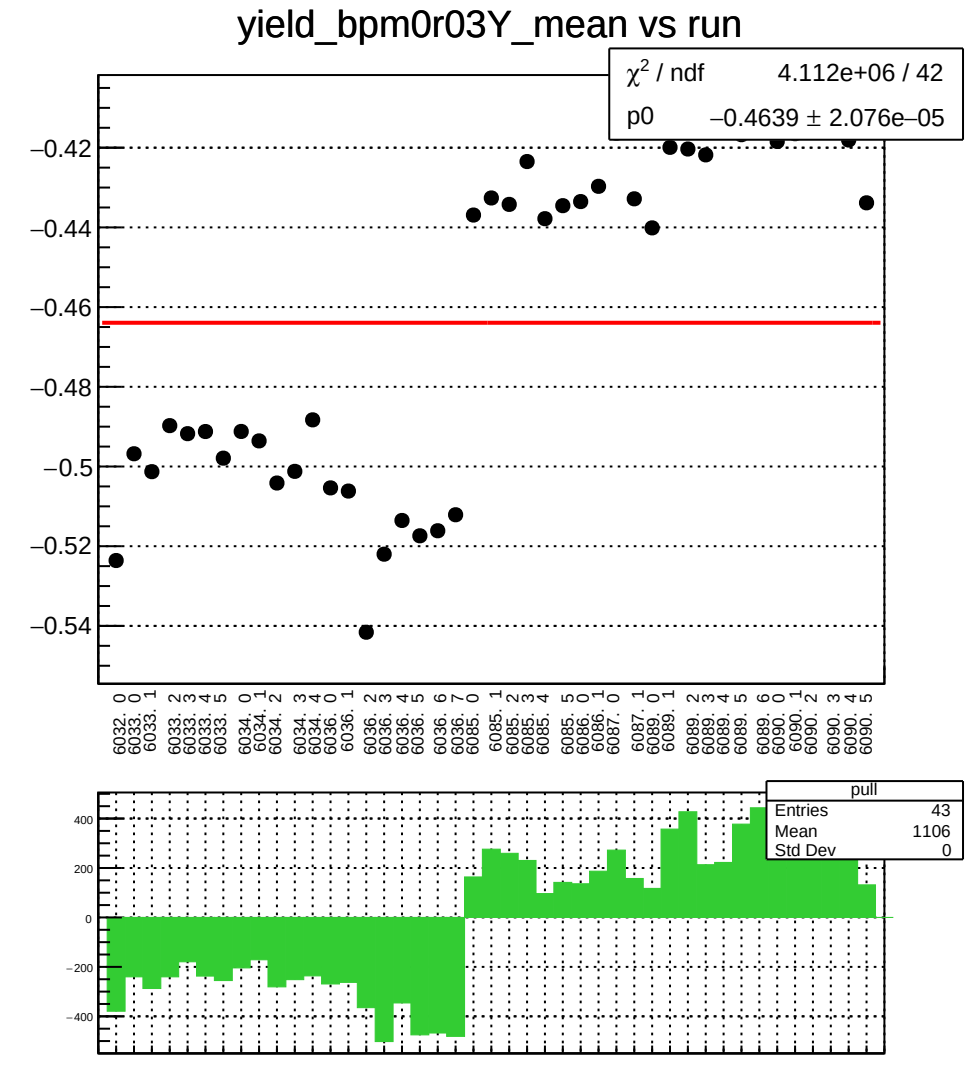

yield_bpm0l10X_rms vs run
χ² / ndf 1.211e+04 / 42
p0 0.01228 ± 1.324e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

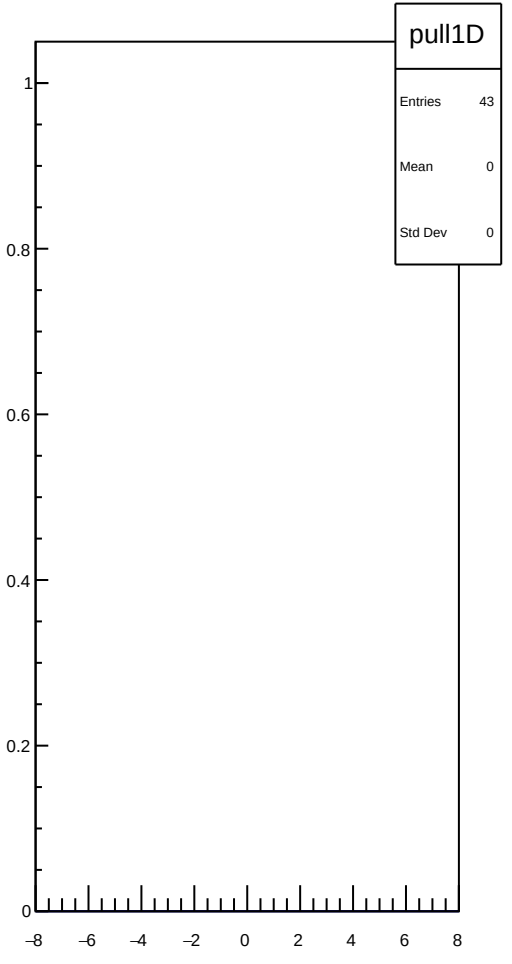

yield_bpm0l10Y_mean vs run
χ² / ndf 3.004e+05 / 42
p0 −0.261 ± 6.001e−06
−0.246
−0.248
−0.25
−0.252
−0.254
−0.256
−0.258
−0.26
−0.262
−0.264
−0.266
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.517
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean 3.858
Std Dev 2.178
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

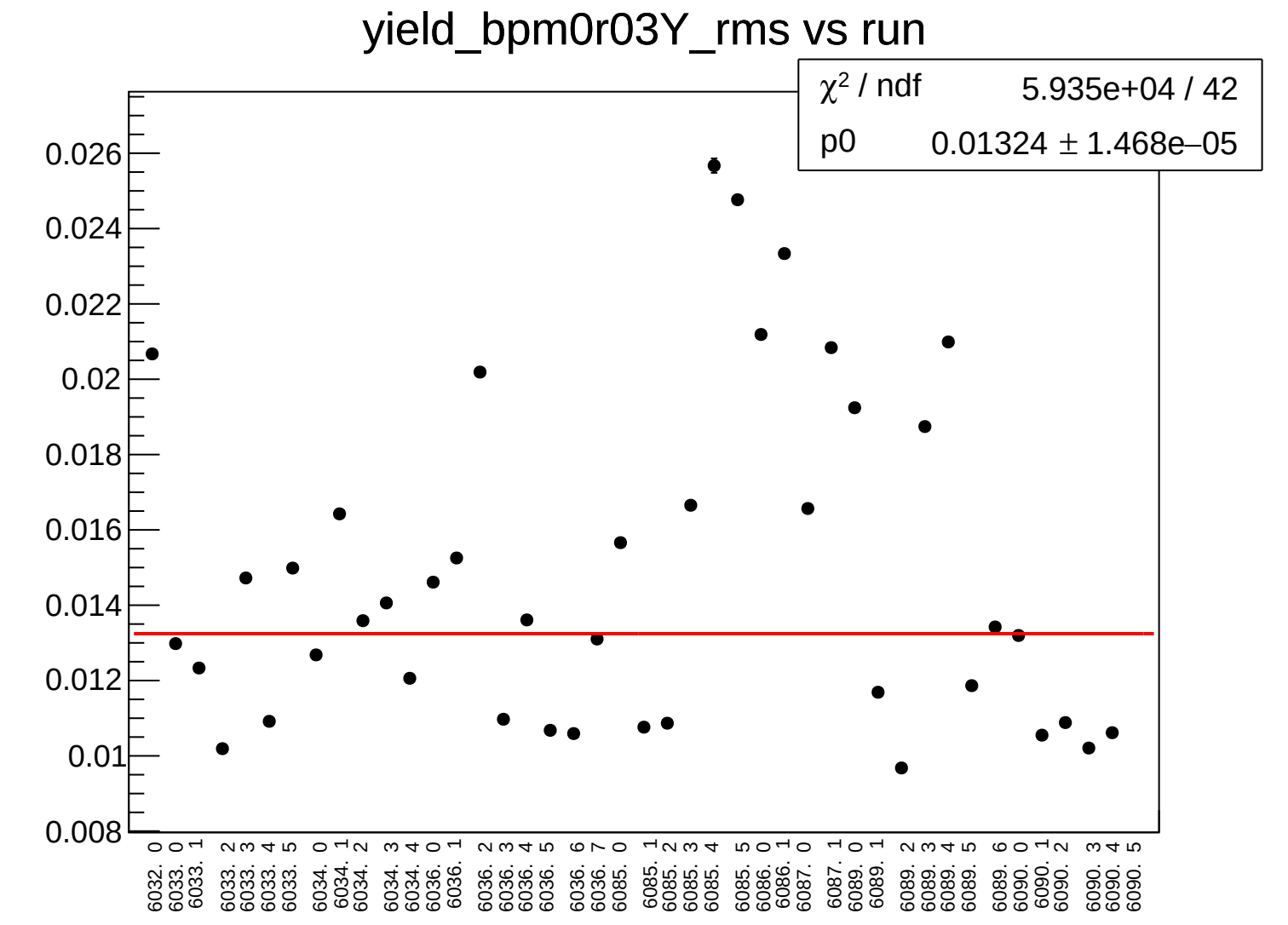

yield_bpm0l10Y_rms vs run
χ² / ndf 1.028e+05 / 42
p0 0.003724 ± 4.243e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

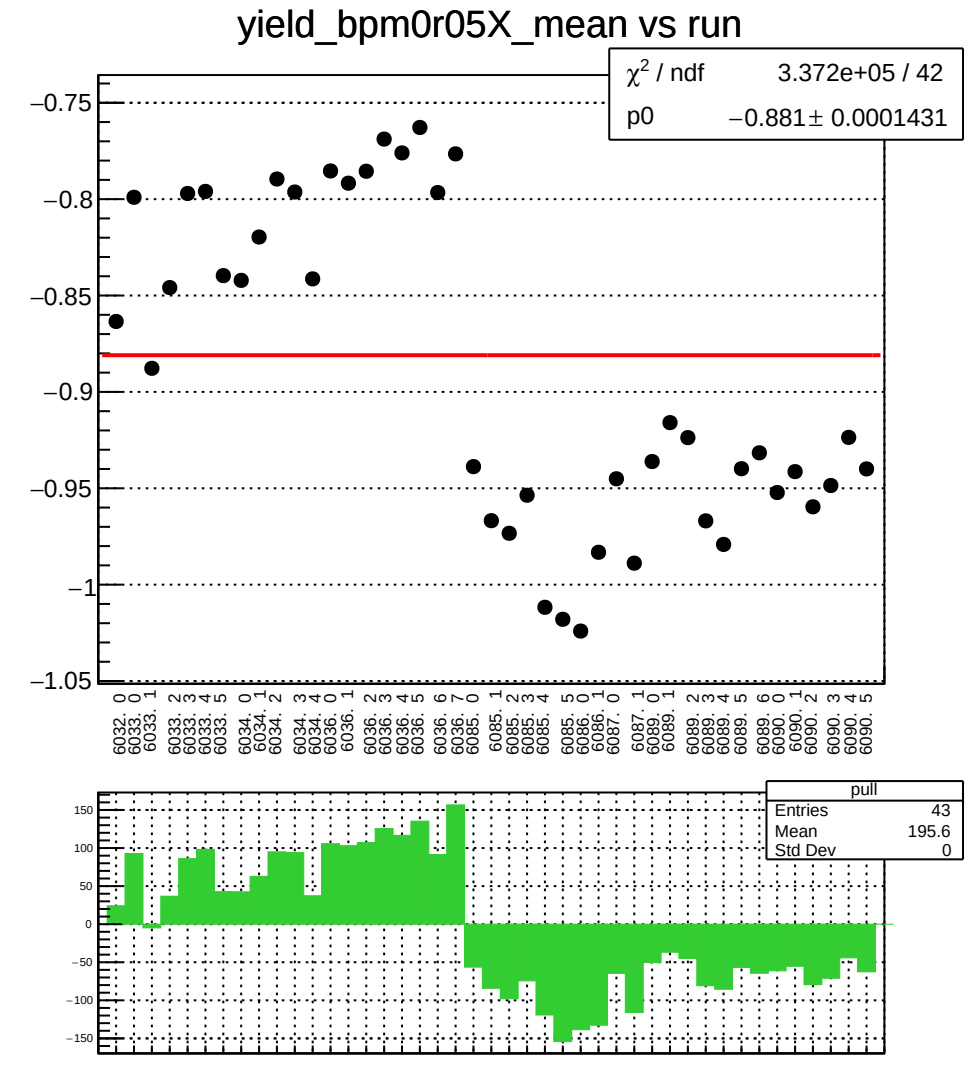

yield_bpm0r03X_mean vs run
χ² / ndf 4.31e+05 / 42
p0 −0.5417 ± 0.0001242
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 85.94
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean −0.02425
Std Dev 3.754
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

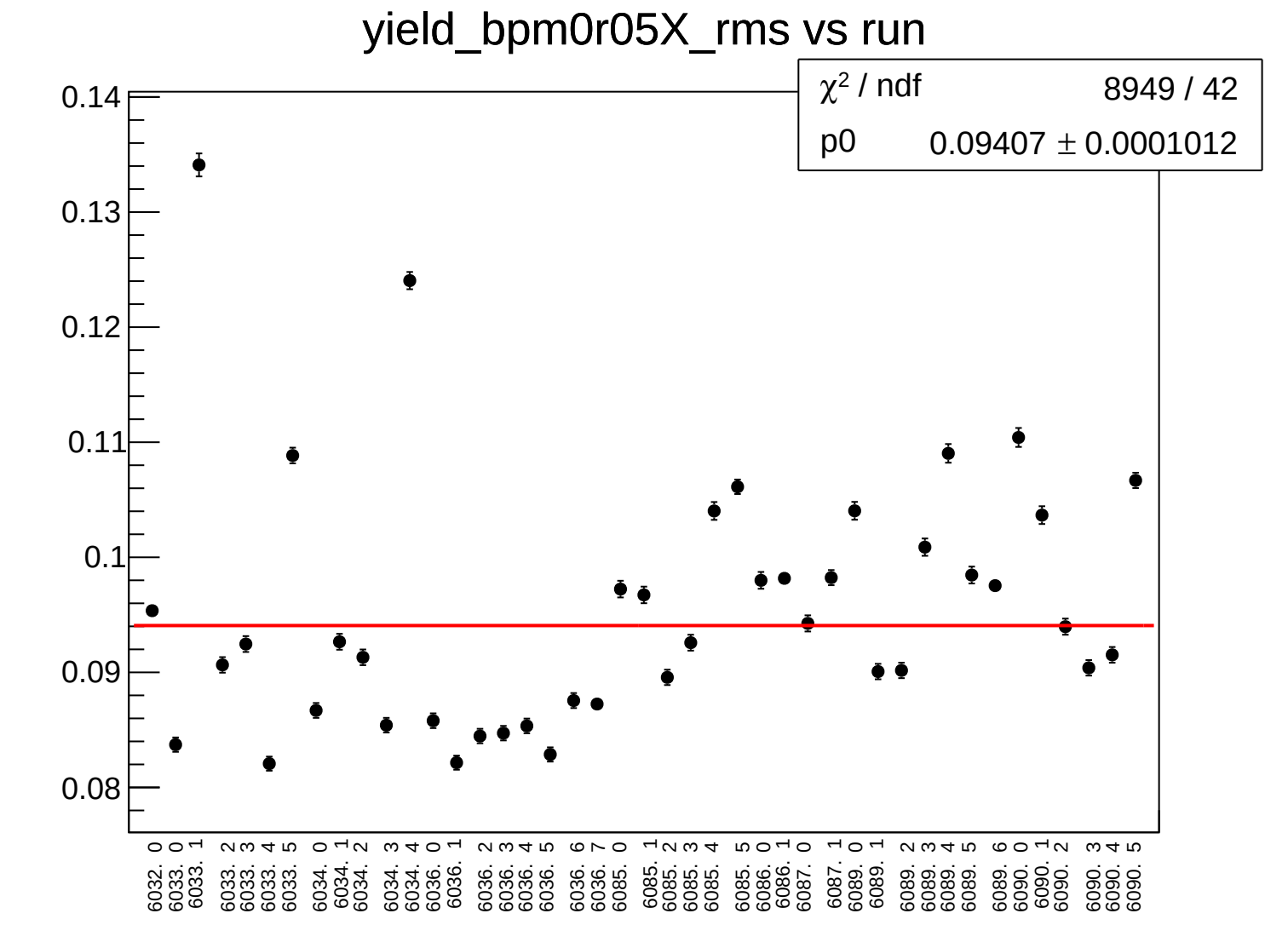

yield_bpm0r03X_rms vs run
χ² / ndf 3.895e+04 / 42
p0 0.08018 ± 8.78e−05
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

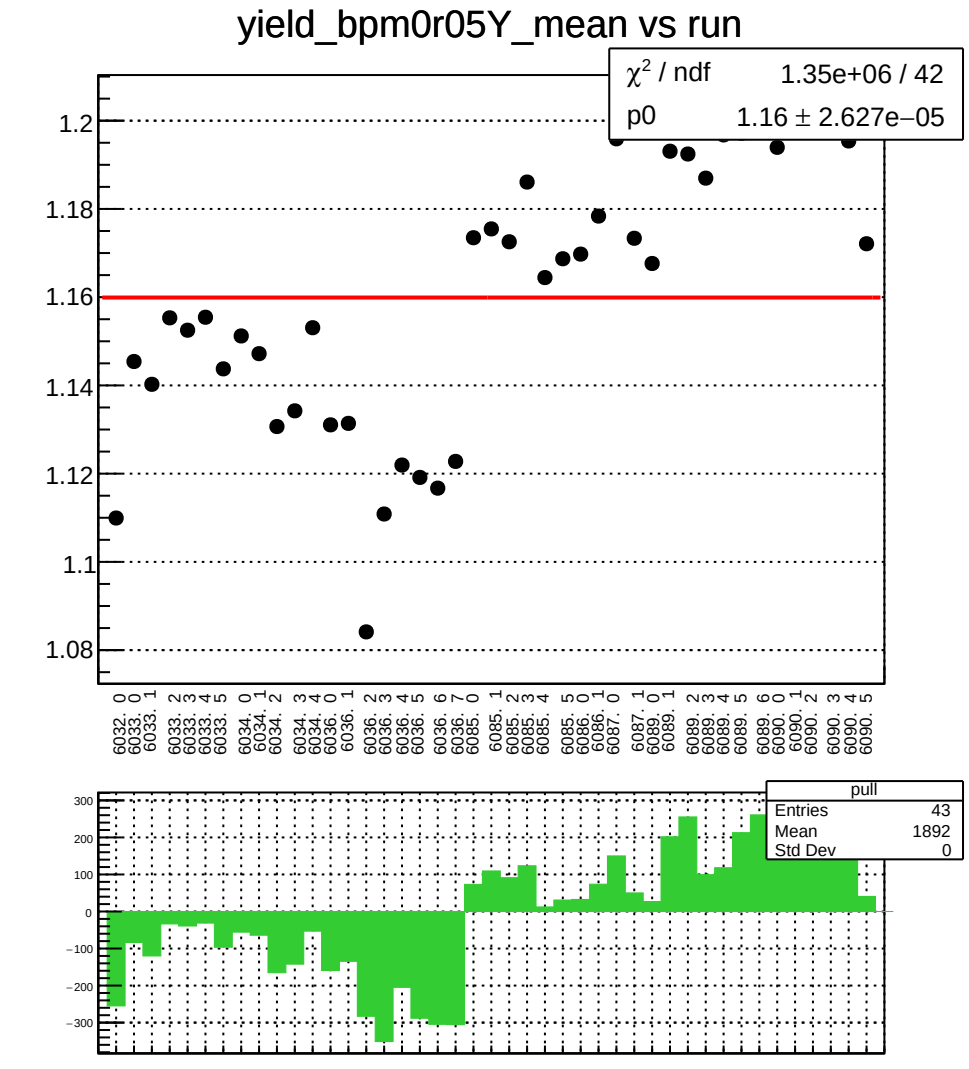

yield_bpm0r03Y_mean vs run
χ² / ndf 4.112e+06 / 42
p0 −0.4639 ± 2.076e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1106
Std Dev 0
400
200
0
−200
−400

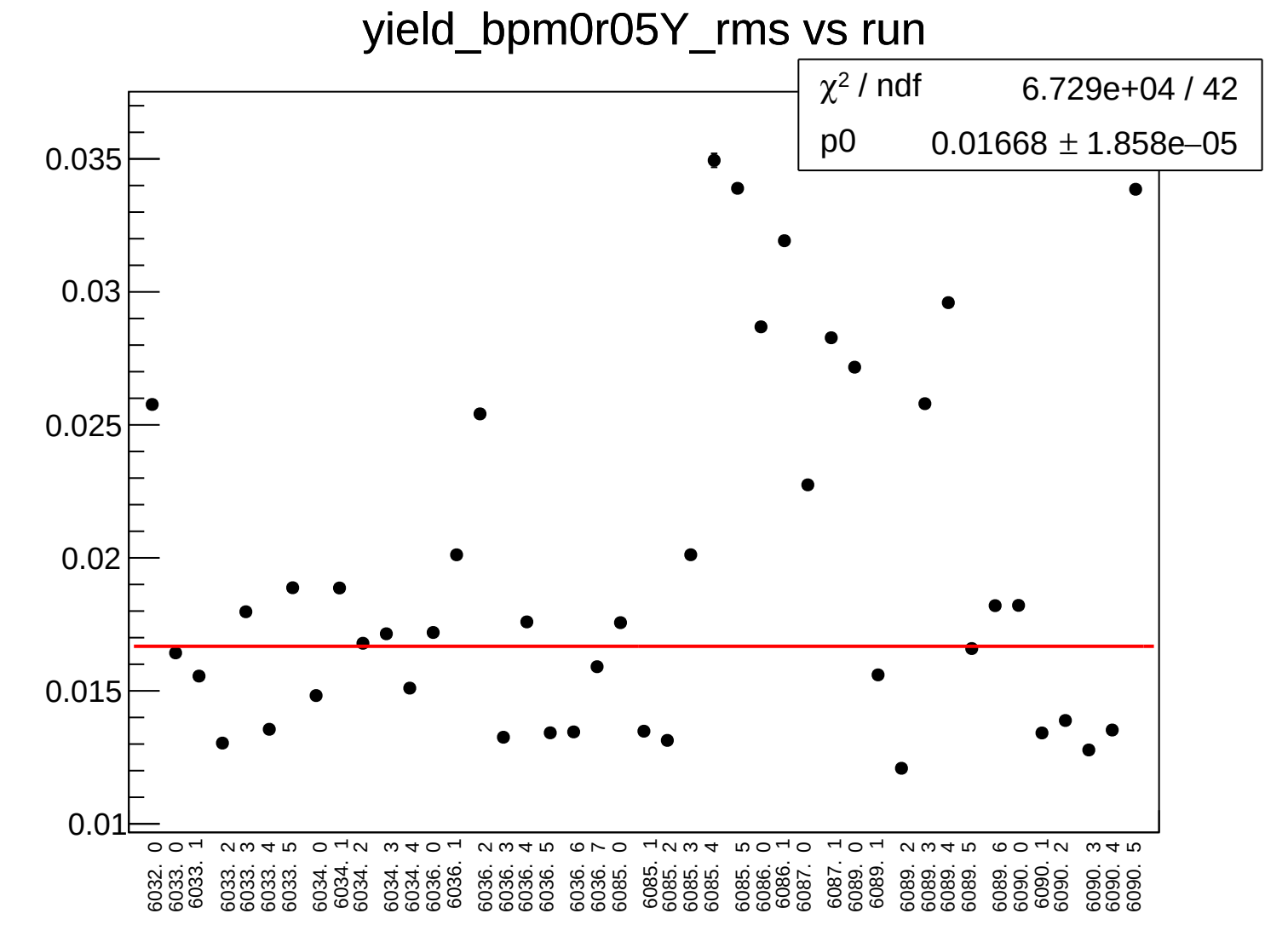

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

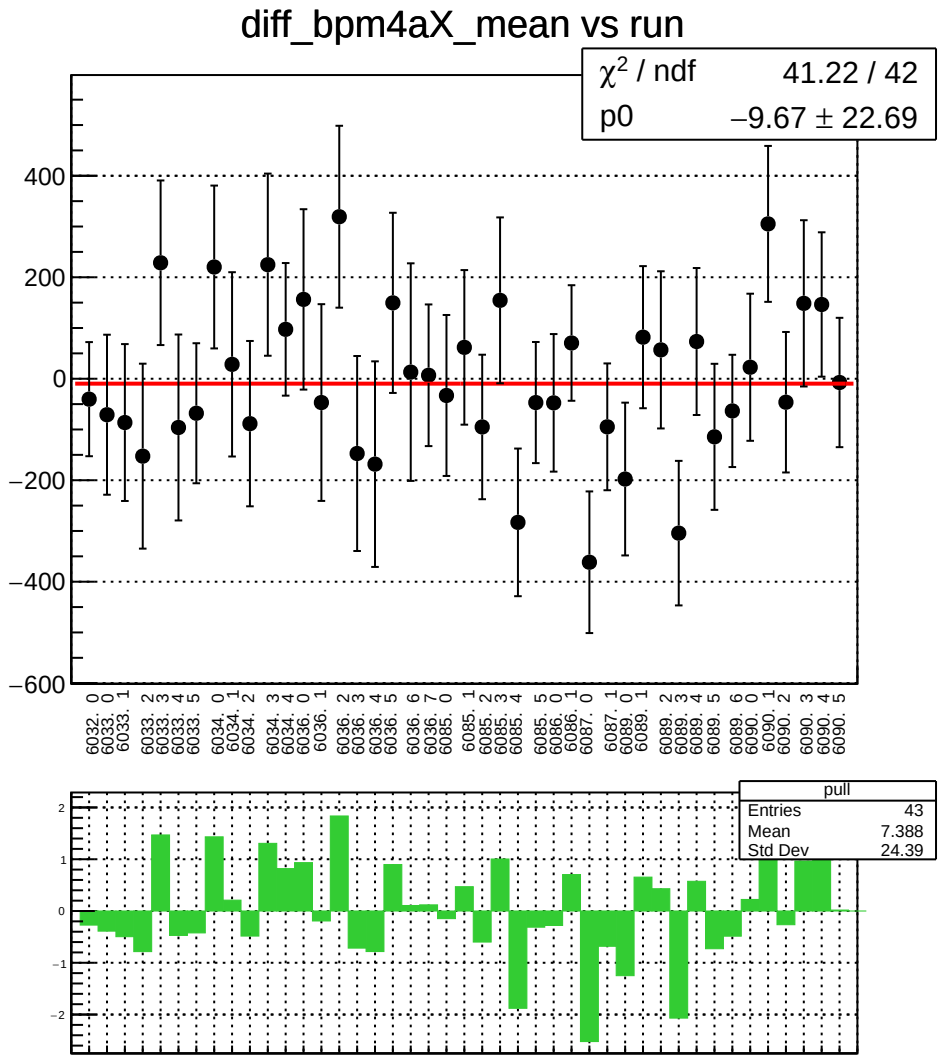

yield_bpm0r03Y_rms vs run
χ² / ndf 5.935e+04 / 42
p0 0.01324 ± 1.468e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

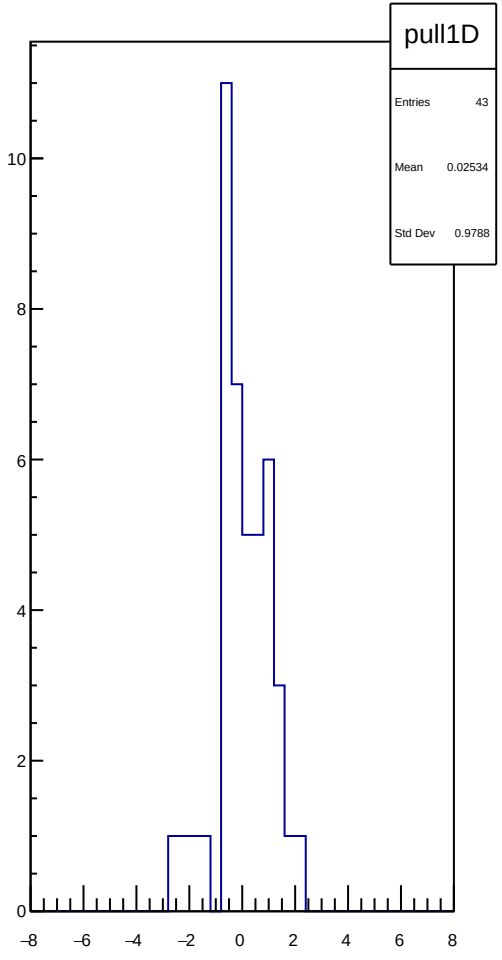

yield_bpm0r05X_mean vs run
χ² / ndf 3.372e+05 / 42
p0 −0.881± 0.0001431
−0.75
−0.8
−0.85
−0.9
−0.95
−1
−1.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 195.6
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −4.806
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

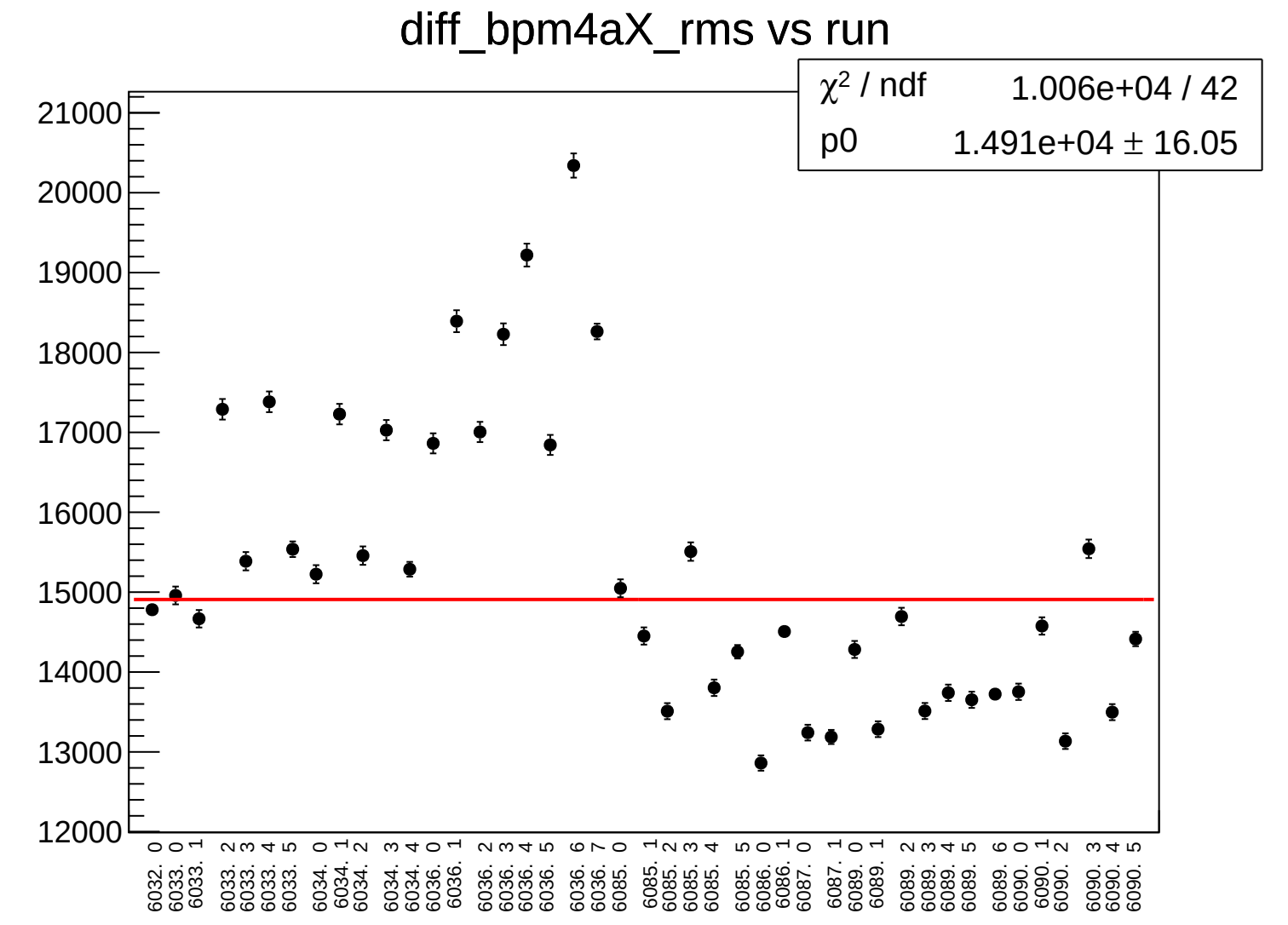

yield_bpm0r05X_rms vs run
χ² / ndf 8949 / 42
p0 0.09407 ± 0.0001012
0.14
0.13
0.12
0.11
0.1
0.09
0.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

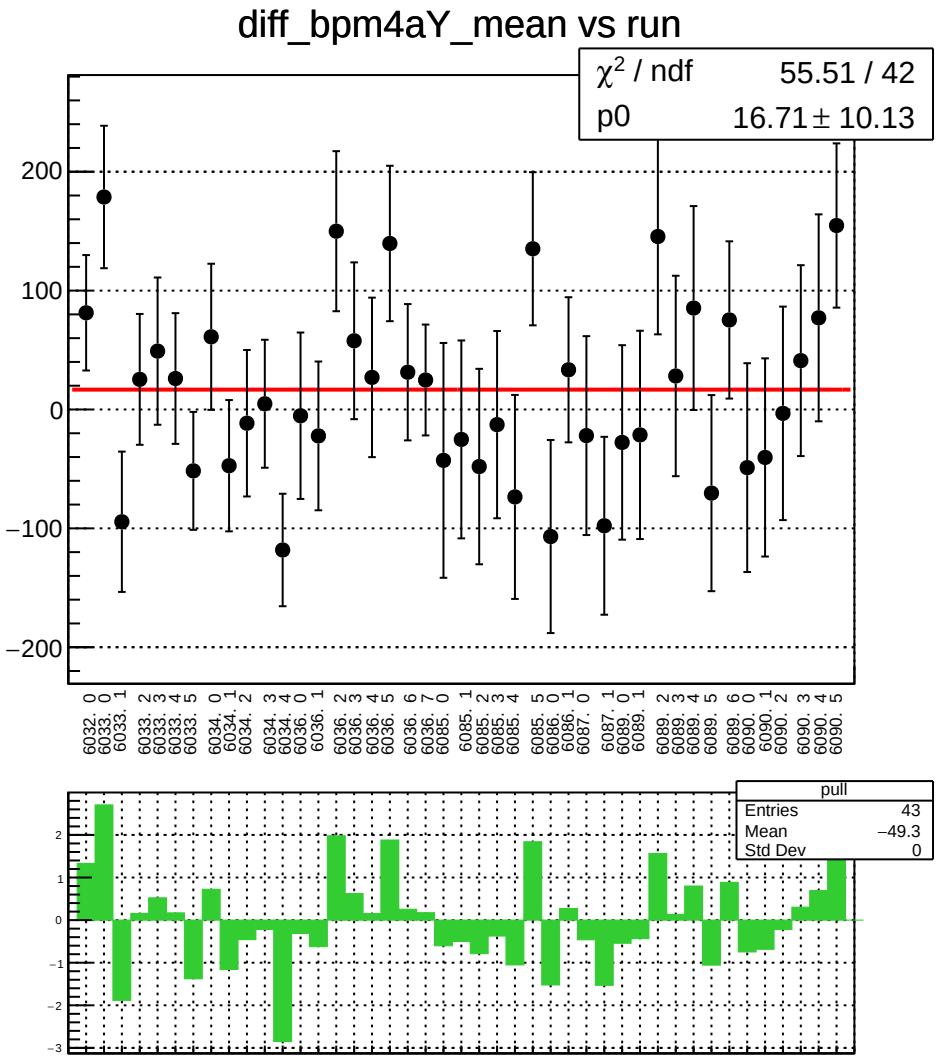

yield_bpm0r05Y_mean vs run
χ² / ndf 1.35e+06 / 42
p0 1.16 ± 2.627e−05
1.2
1.18
1.16
1.14
1.12
1.1
1.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1892
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

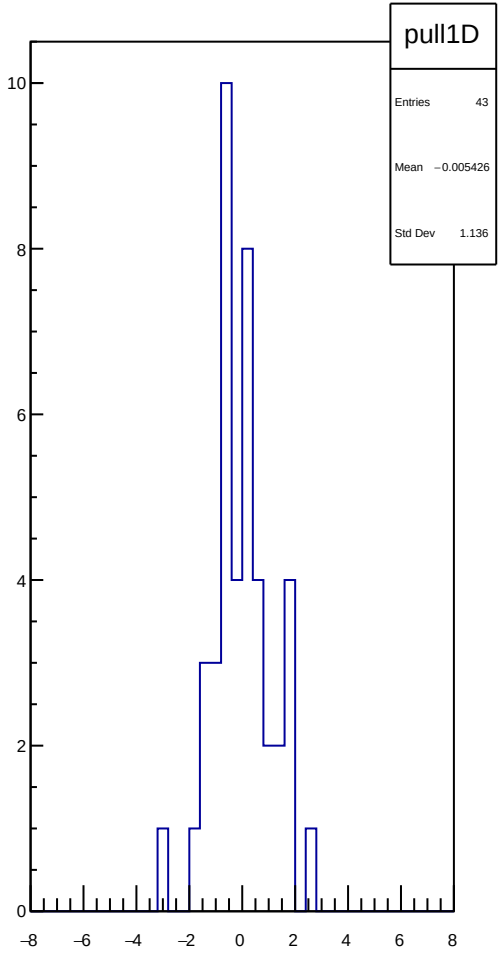

yield_bpm0r05Y_rms vs run
χ² / ndf 6.729e+04 / 42
p0 0.01668 ± 1.858e−05
0.035
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

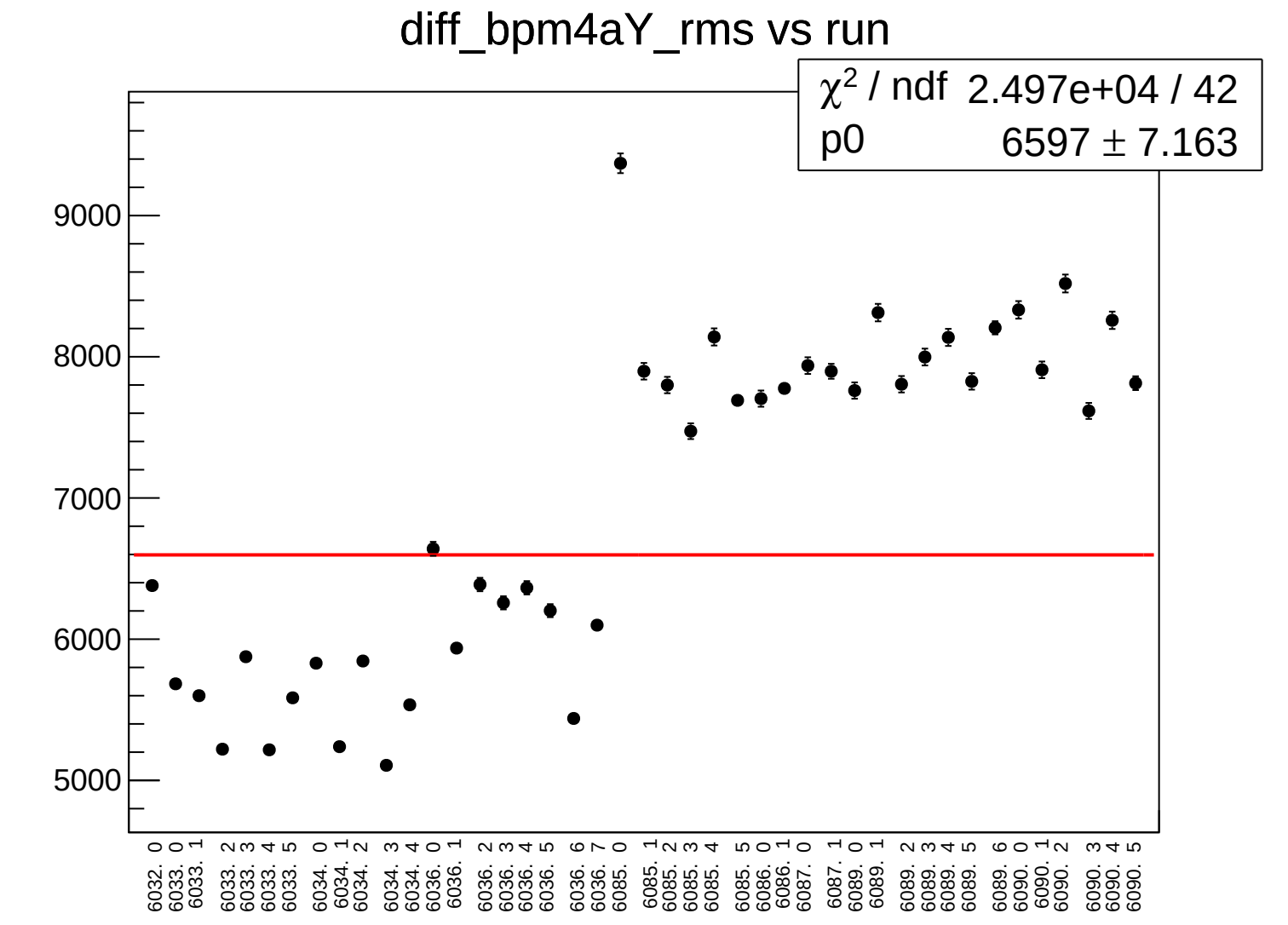

diff_bpm4aX_mean vs run
χ² / ndf 41.22 / 42
p0 −9.67 ± 22.69
400
200
0
−200
−400
−600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.388
Std Dev 24.39
2
1
0
−1
−2

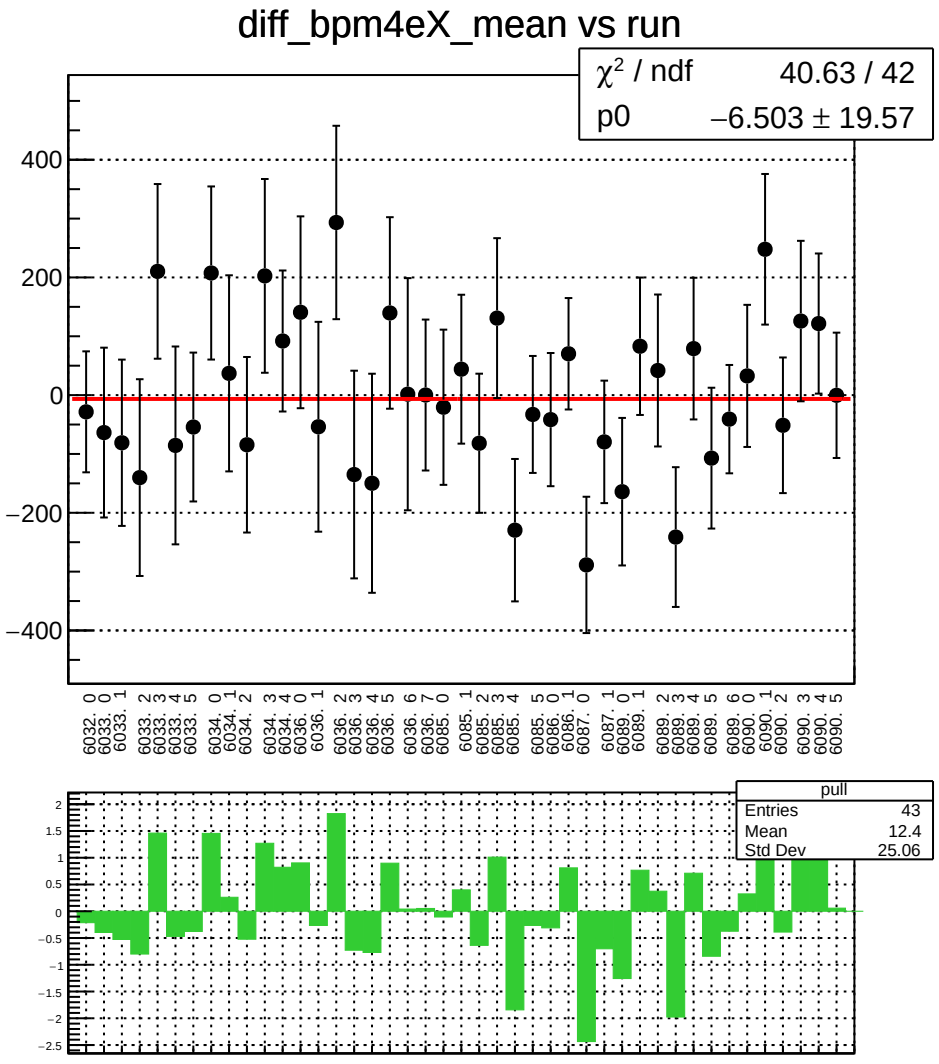

pull1D
Entries 43
Mean 0.02534
Std Dev 0.9788
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

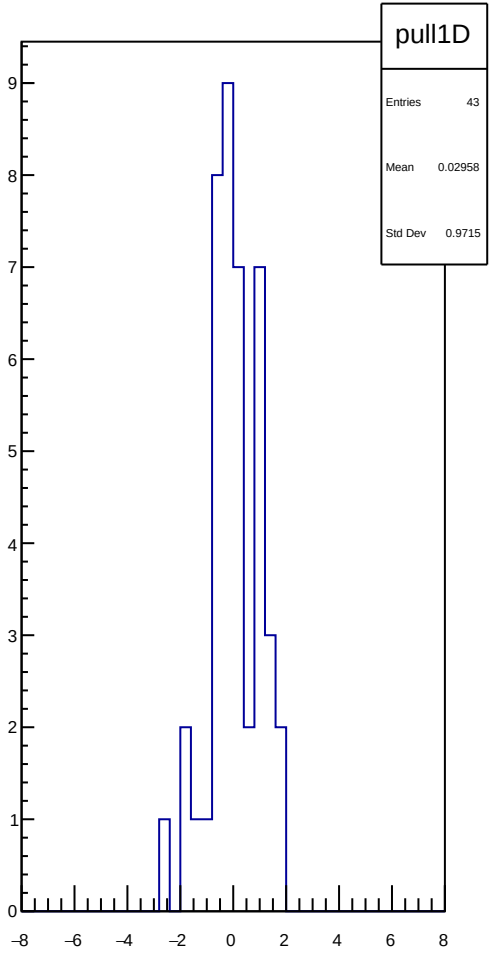

diff_bpm4aX_rms vs run
χ² / ndf 1.006e+04 / 42
p0 1.491e+04 ± 16.05
21000
20000
19000
18000
17000
16000
15000
14000
13000
12000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

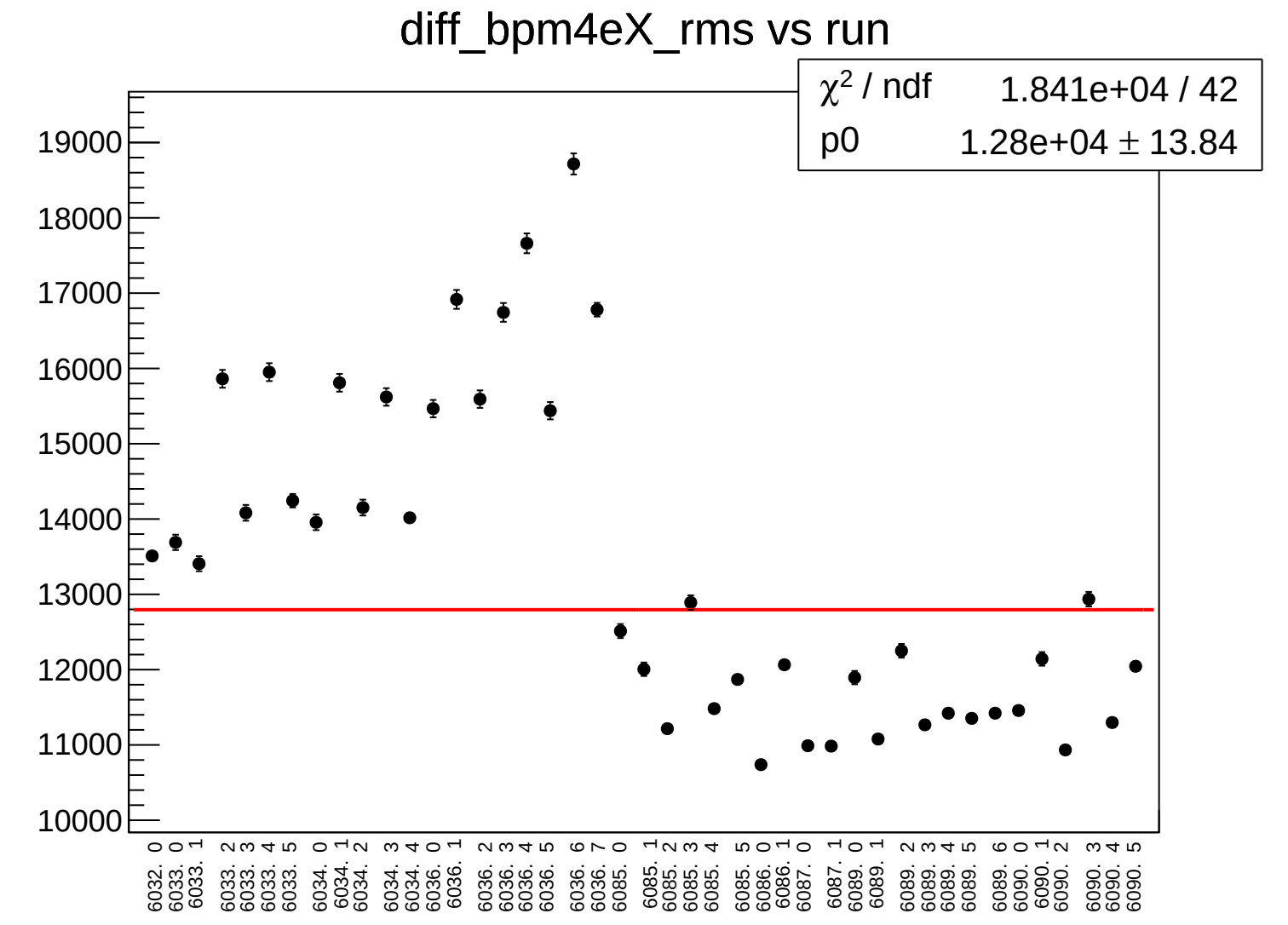

diff_bpm4aY_mean vs run
χ² / ndf 55.51 / 42
p0 16.71 ± 10.13
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −49.3
Std Dev 0
2
1
0
−1
−2
−3

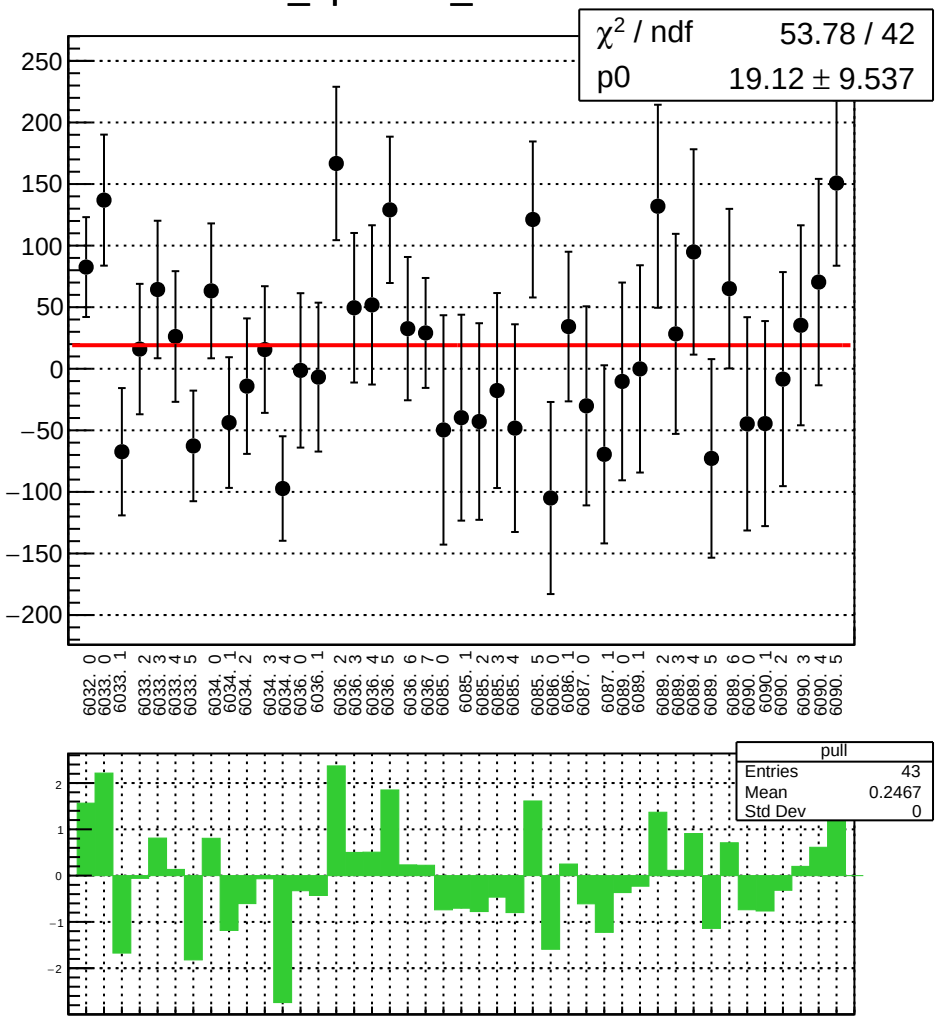

pull1D
Entries 43
Mean −0.005426
Std Dev 1.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

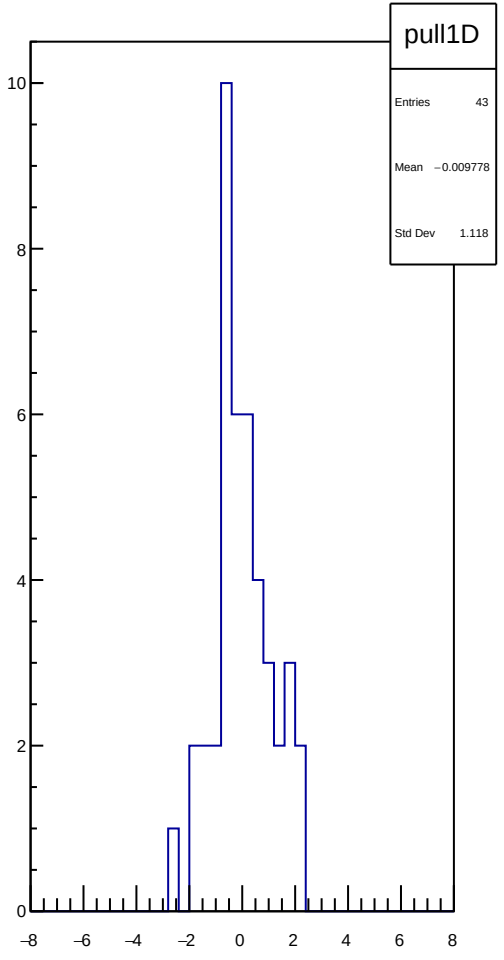

diff_bpm4aY_rms vs run
χ² / ndf 2.497e+04 / 42
p0 6597 ± 7.163
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

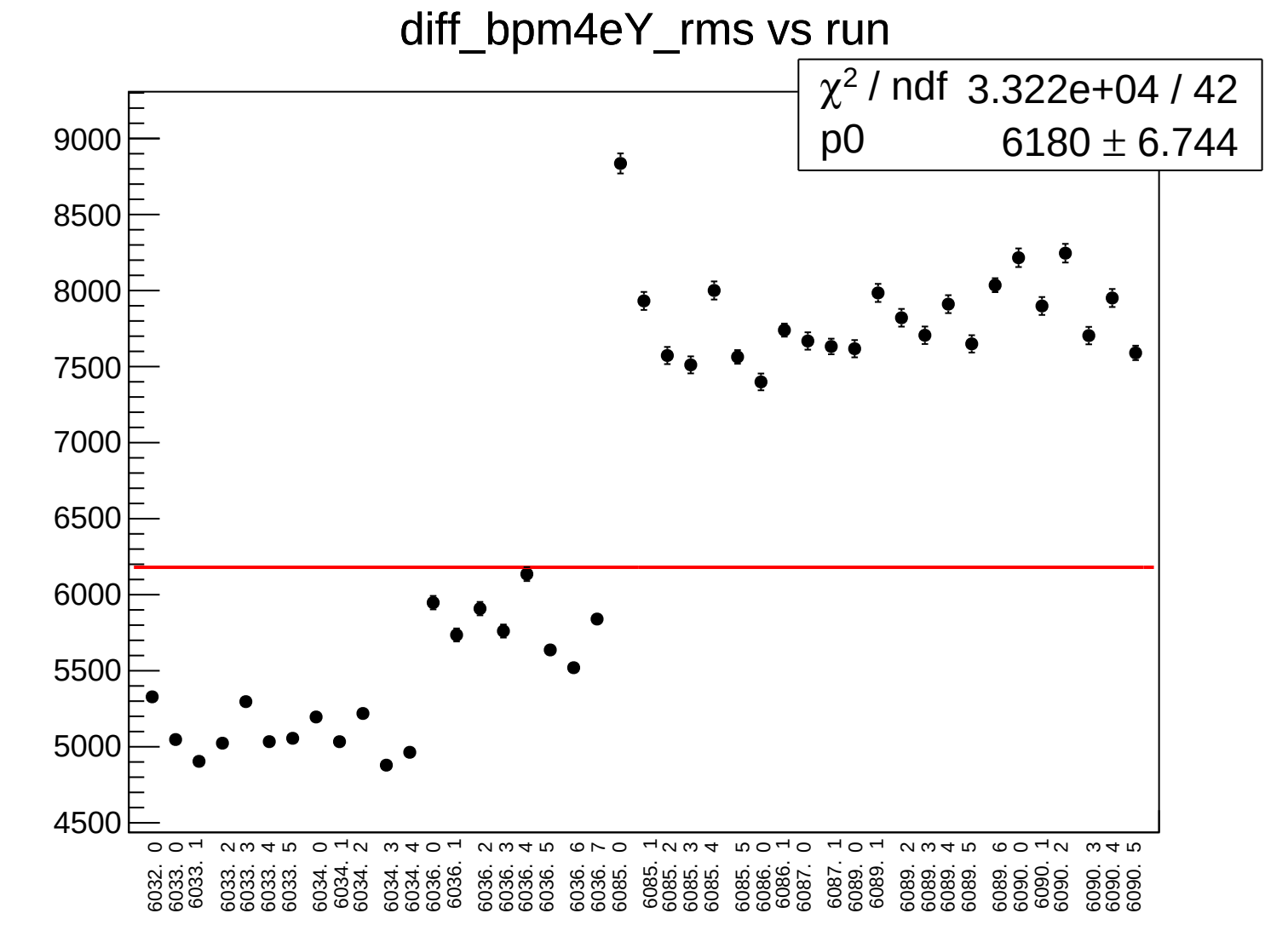

diff_bpm4eX_mean vs run
χ² / ndf 40.63 / 42
p0 −6.503 ± 19.57
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.4
Std Dev 25.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

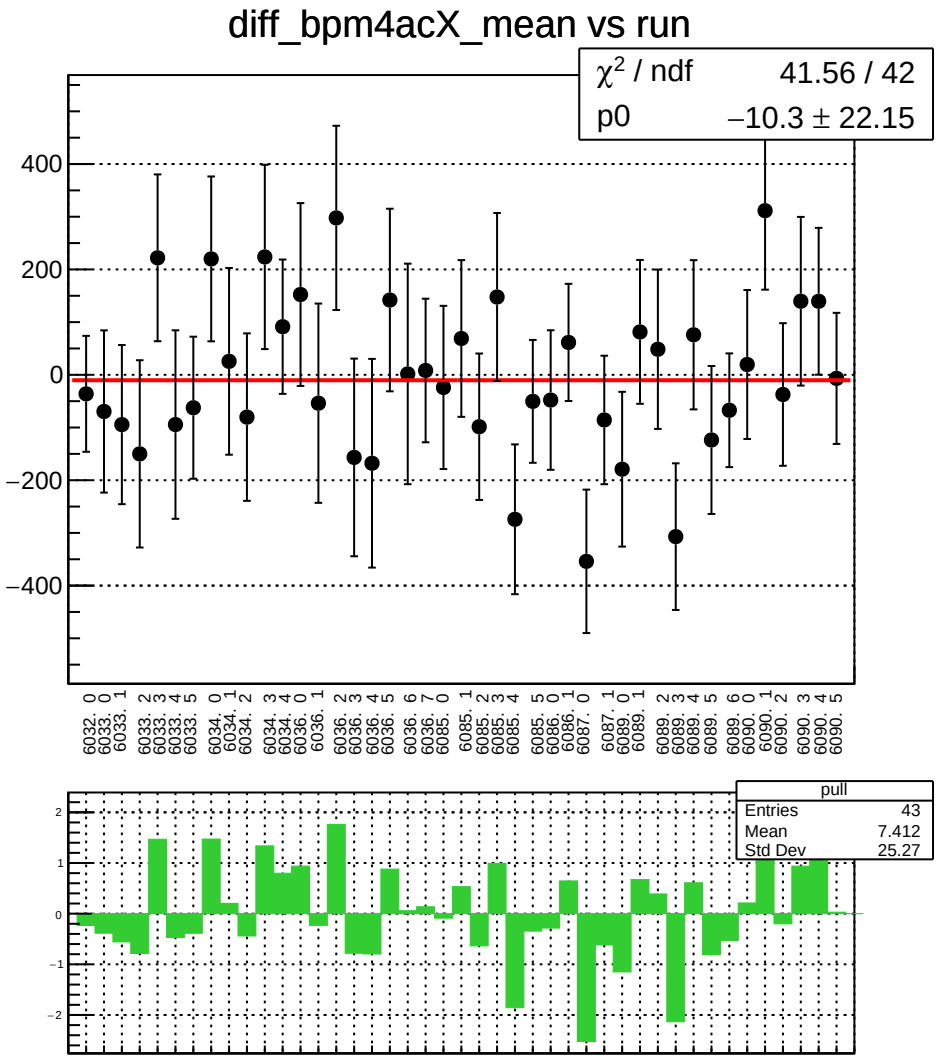

pull1D
Entries 43
Mean 0.02958
Std Dev 0.9715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

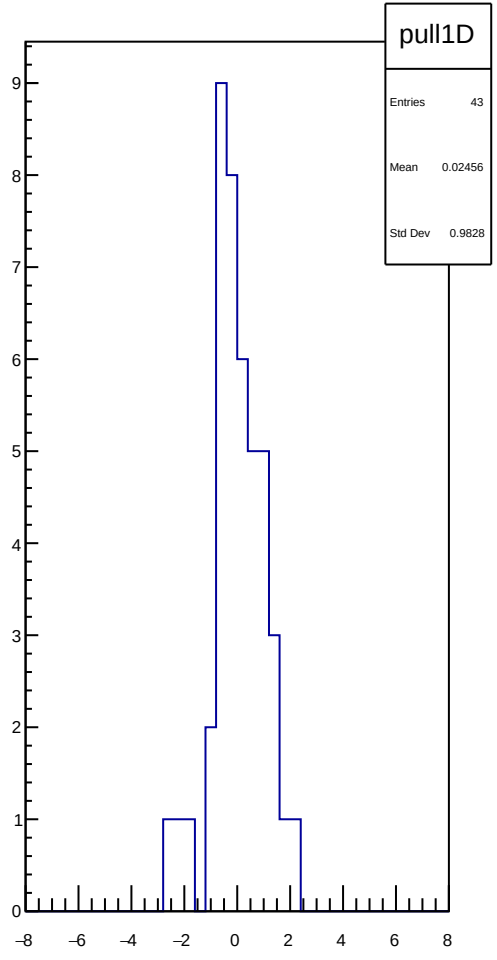

diff_bpm4eX_rms vs run
χ² / ndf 1.841e+04 / 42
p0 1.28e+04 ± 13.84
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

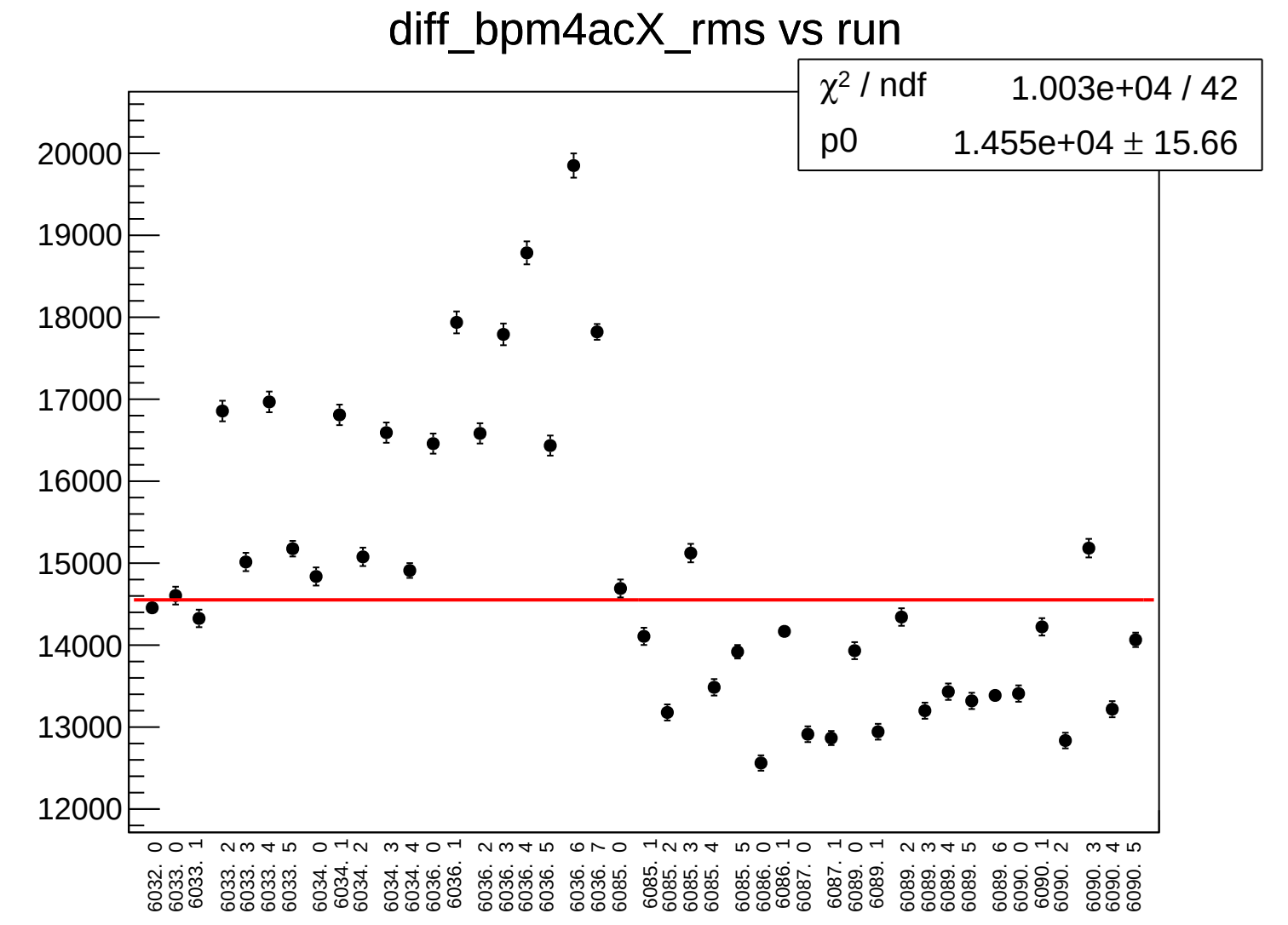

diff_bpm4eY_mean vs run
χ² / ndf 53.78 / 42
p0 19.12 ± 9.537
pull
Entries 43
Mean 0.2467
Std Dev 0

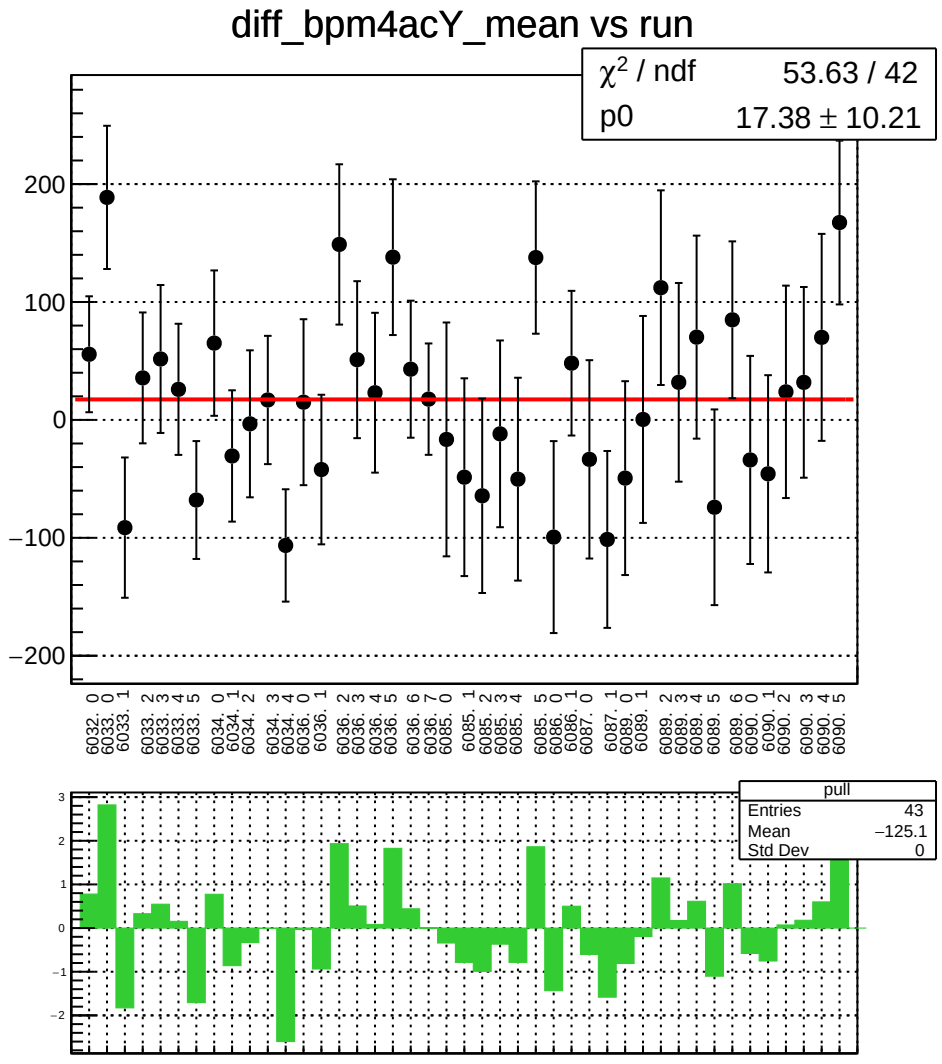

pull1D
Entries 43
Mean −0.009778
Std Dev 1.118

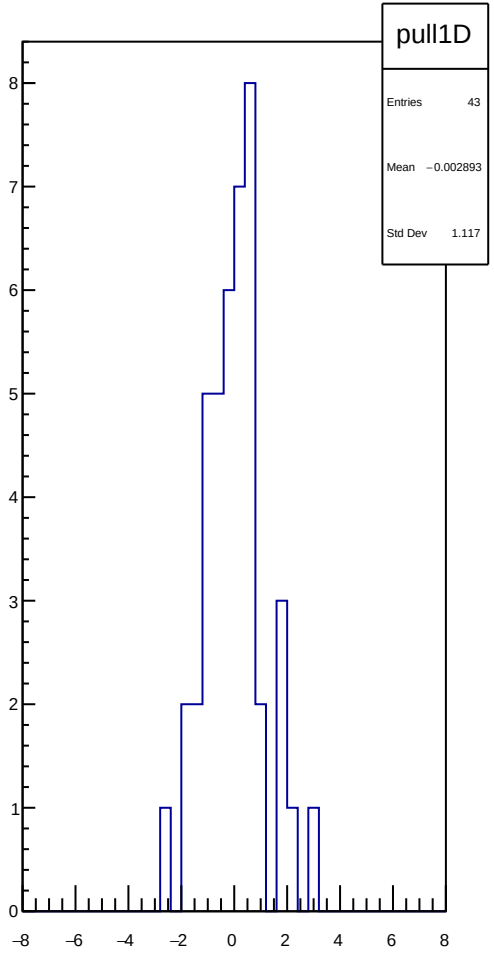

diff_bpm4eY_rms vs run
χ² / ndf 3.322e+04 / 42
p0 6180 ± 6.744
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

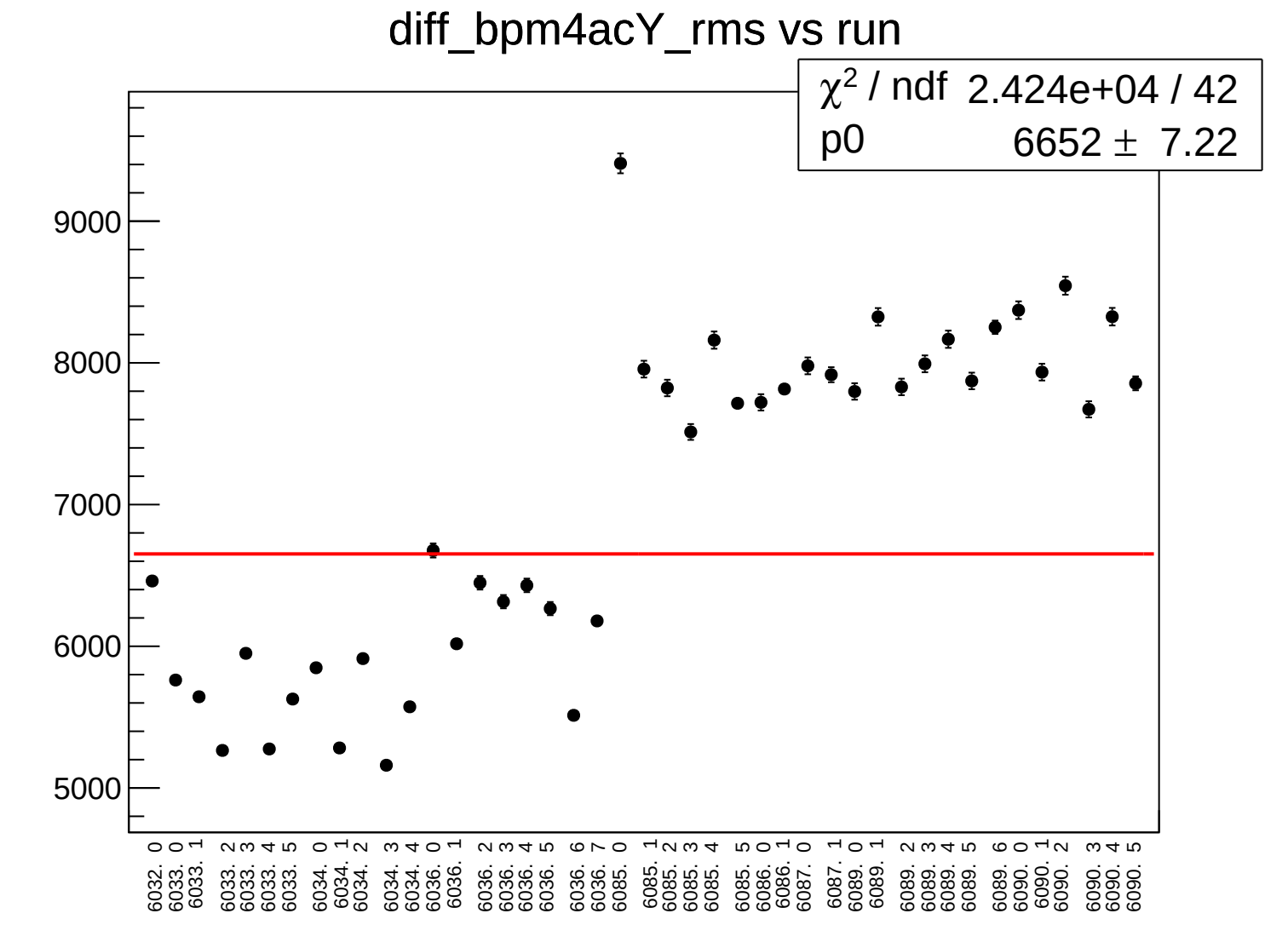

diff_bpm4acX_mean vs run
χ² / ndf 41.56 / 42
p0 −10.3 ± 22.15
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.412
Std Dev 25.27
2
1
0
−1
−2

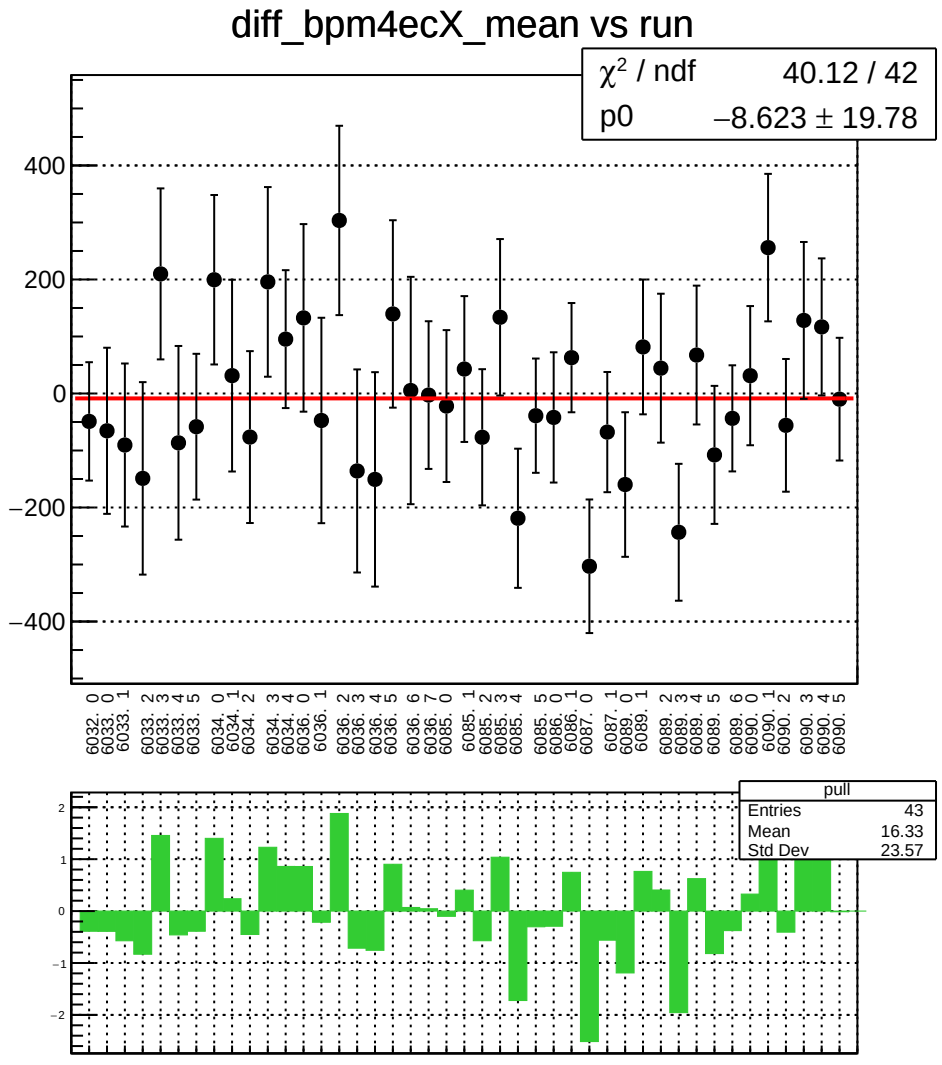

pull1D
Entries 43
Mean 0.02456
Std Dev 0.9828
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

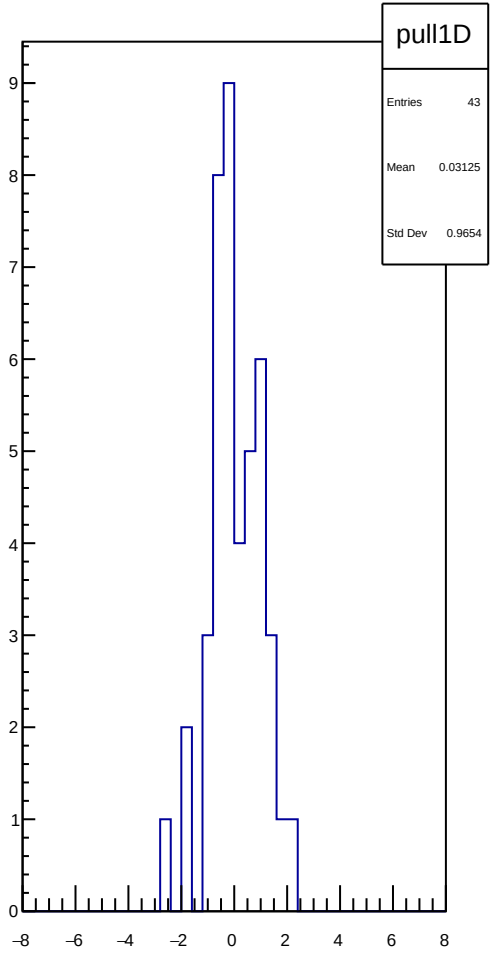

diff_bpm4acX_rms vs run
χ² / ndf 1.003e+04 / 42
p0 1.455e+04 ± 15.66
20000
19000
18000
17000
16000
15000
14000
13000
12000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

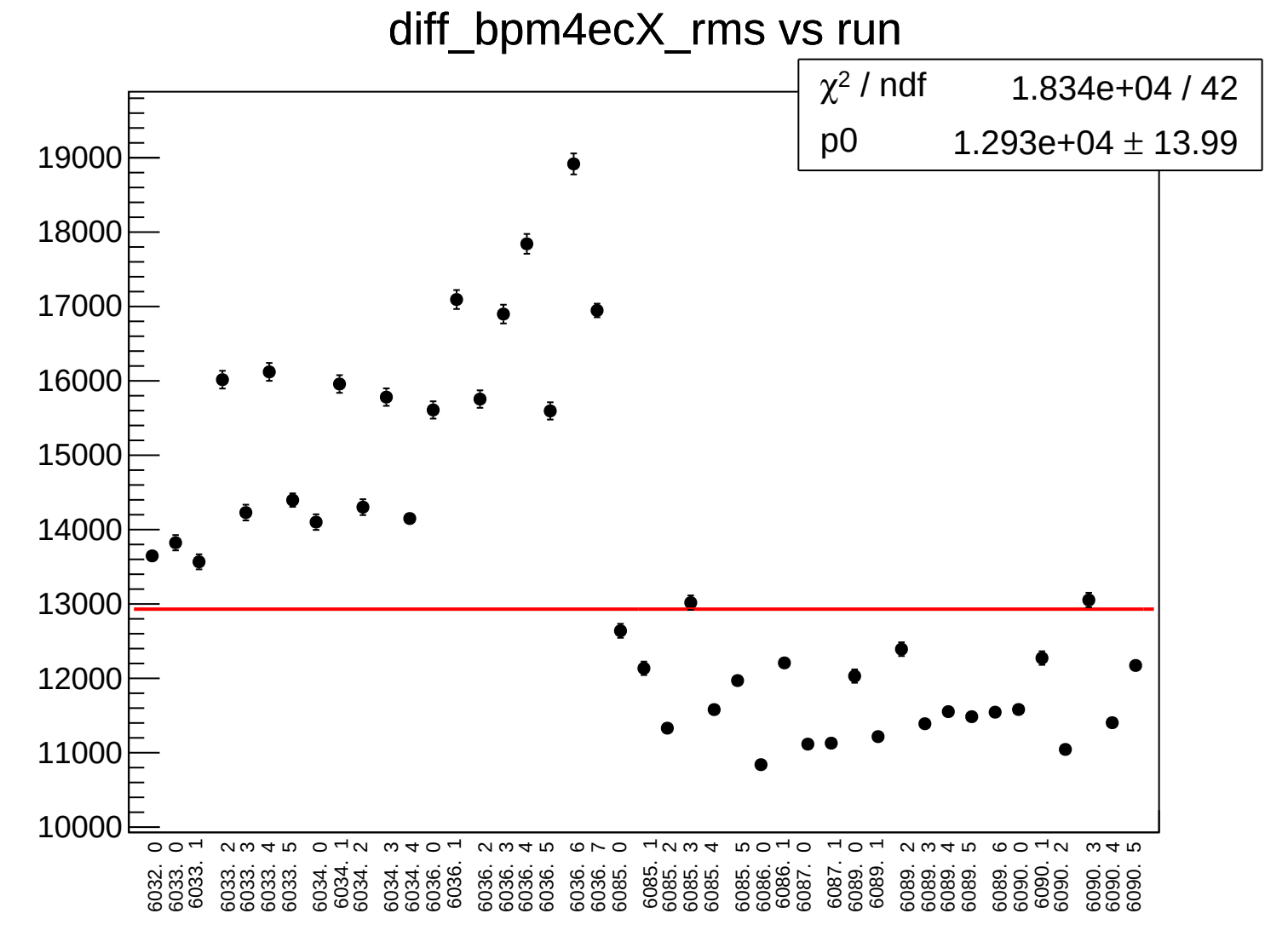

diff_bpm4acY_mean vs run
χ² / ndf 53.63 / 42
p0 17.38 ± 10.21
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −125.1
Std Dev 0
3
2
1
0
−1
−2

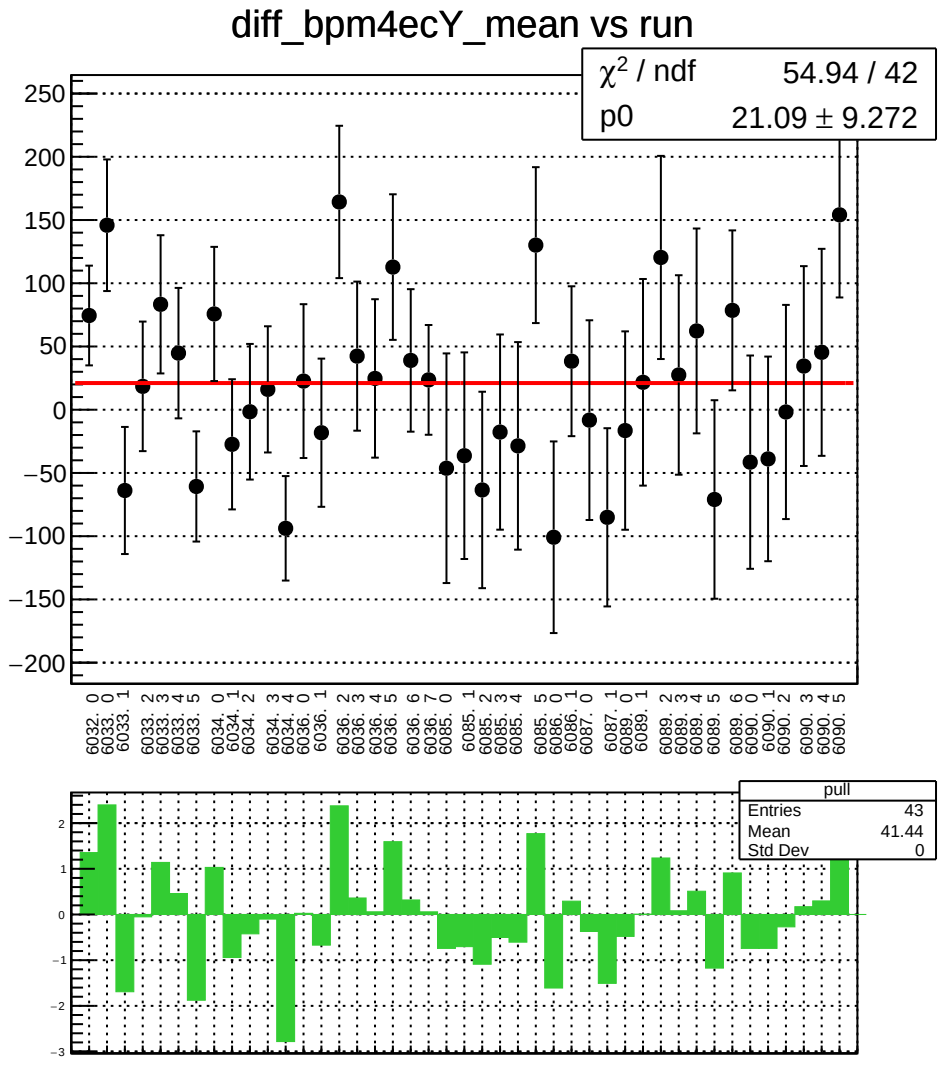

pull1D
Entries 43
Mean −0.002893
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

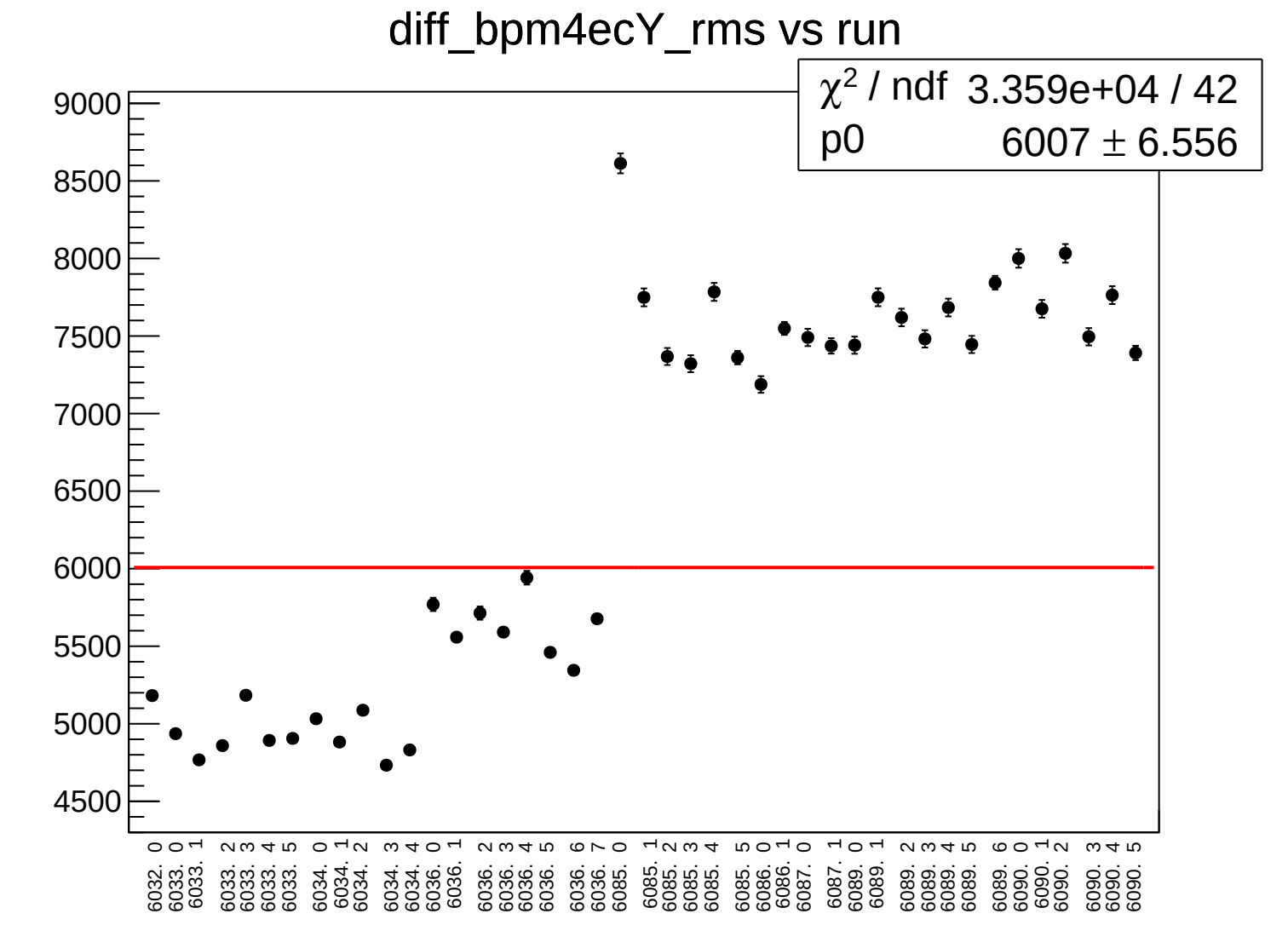

diff_bpm4acY_rms vs run
χ² / ndf 2.424e+04 / 42
p0 6652 ± 7.22
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

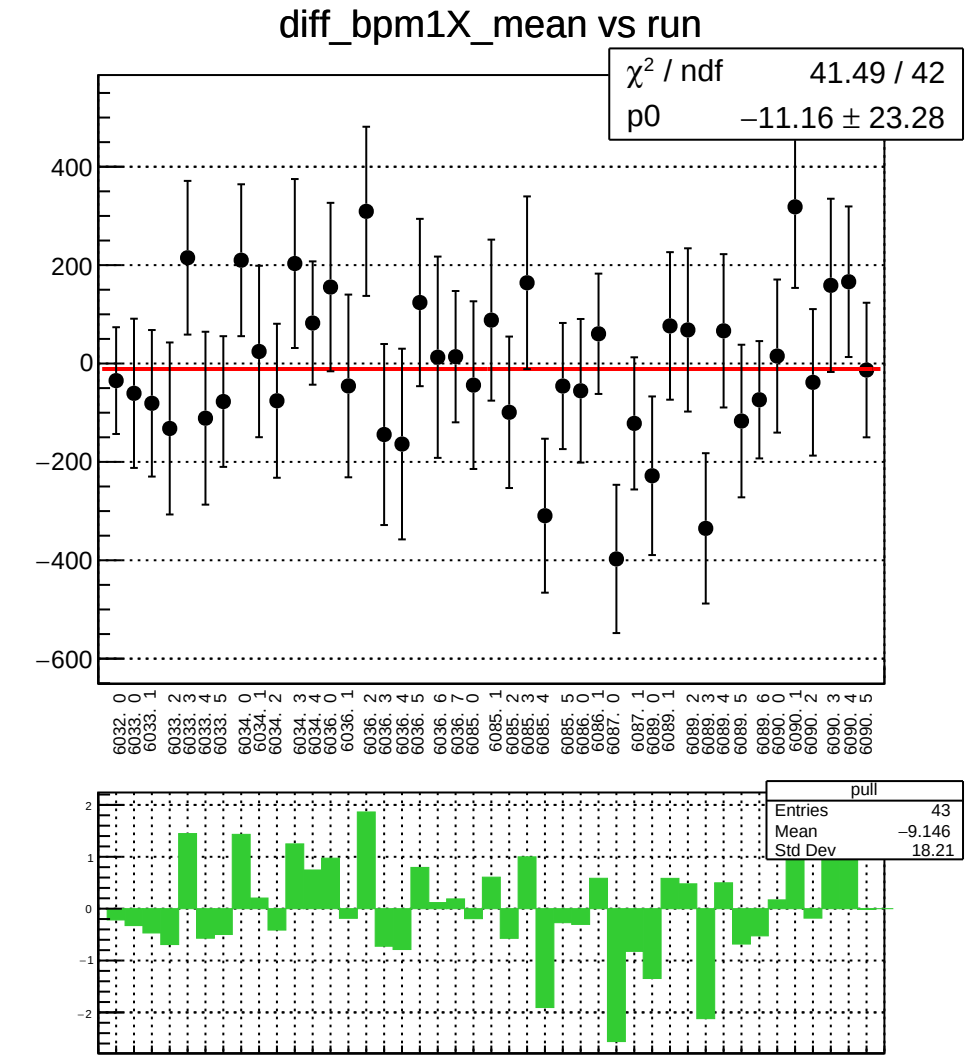

diff_bpm4ecX_mean vs run
χ² / ndf 40.12 / 42
p0 −8.623 ± 19.78
400
200
0
−200
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.33
Std Dev 23.57
2
1
0
−1
−2

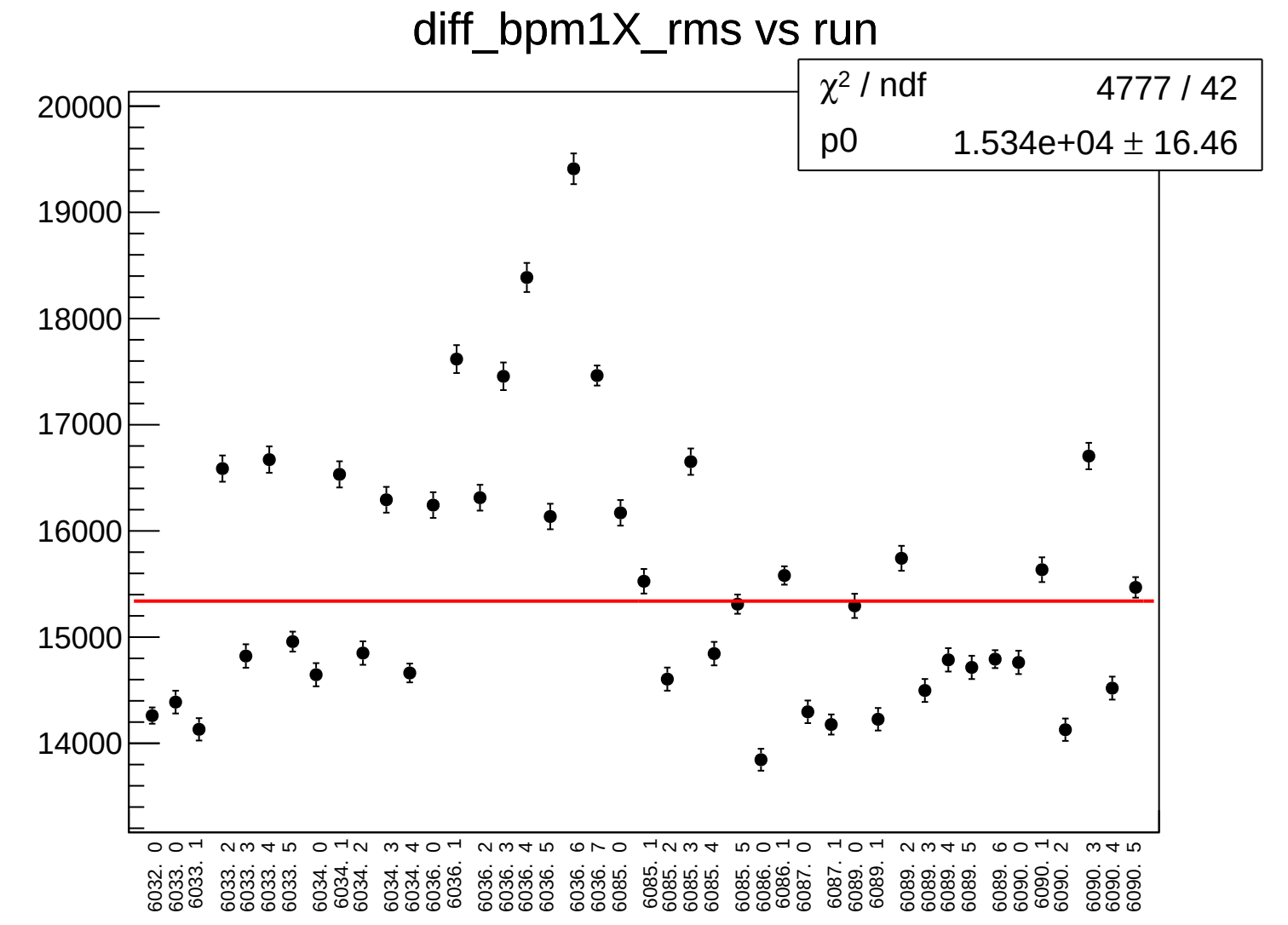

pull1D
Entries 43
Mean 0.03125
Std Dev 0.9654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

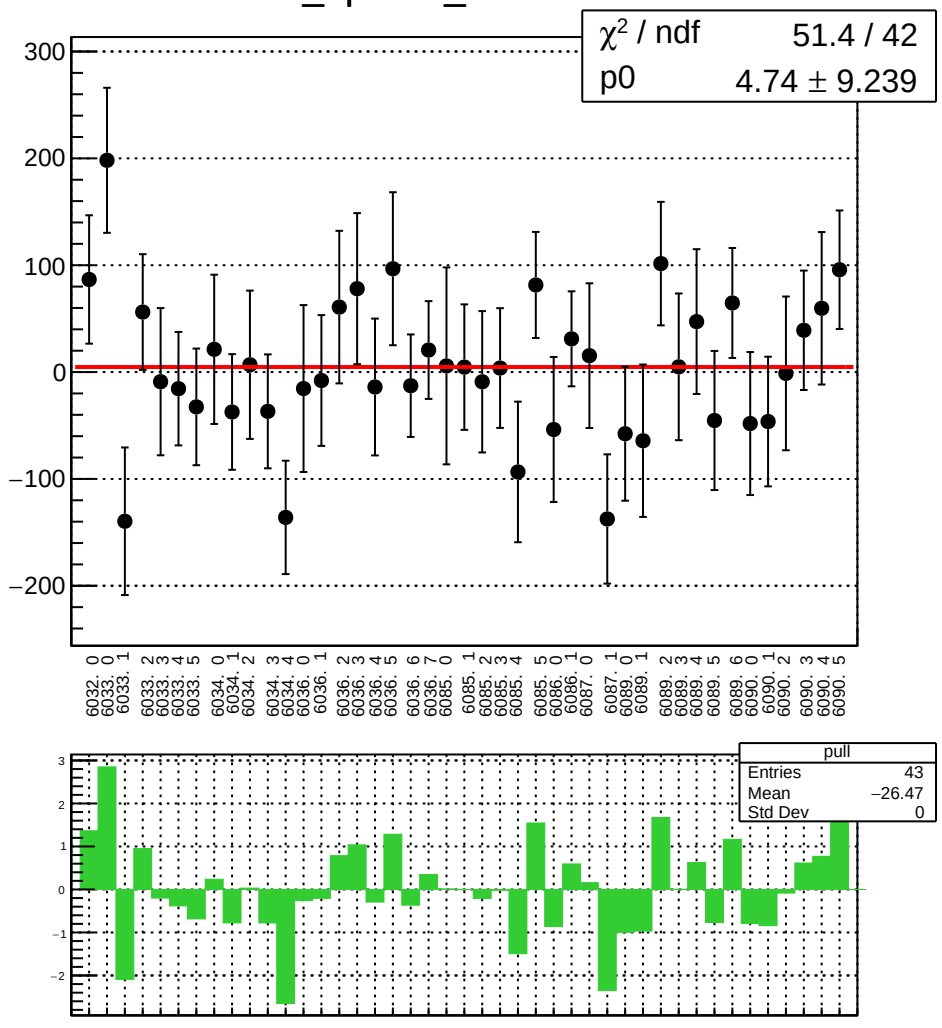

diff_bpm4ecX_rms vs run
χ² / ndf 1.834e+04 / 42
p0 1.293e+04 ± 13.99
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

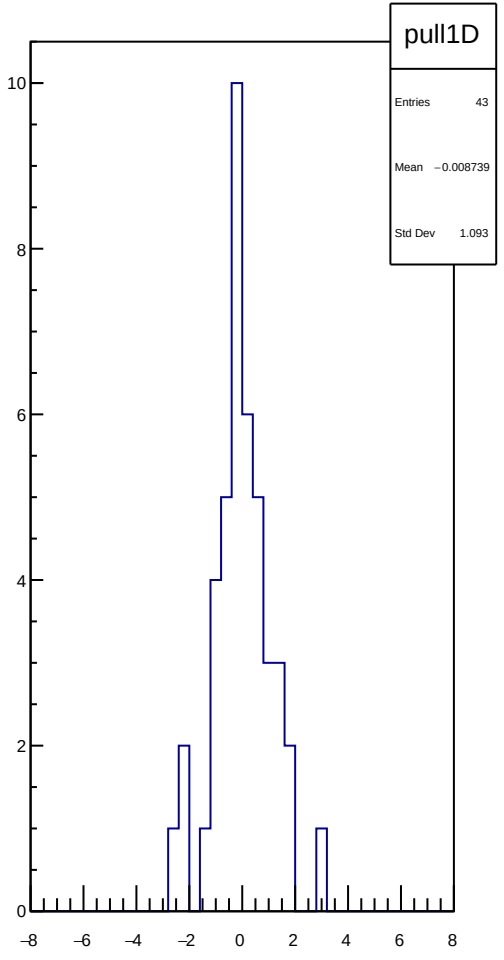

diff_bpm4ecY_mean vs run
χ² / ndf 54.94 / 42
p0 21.09 ± 9.272
250
200
150
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 41.44
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01379
Std Dev 1.13
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

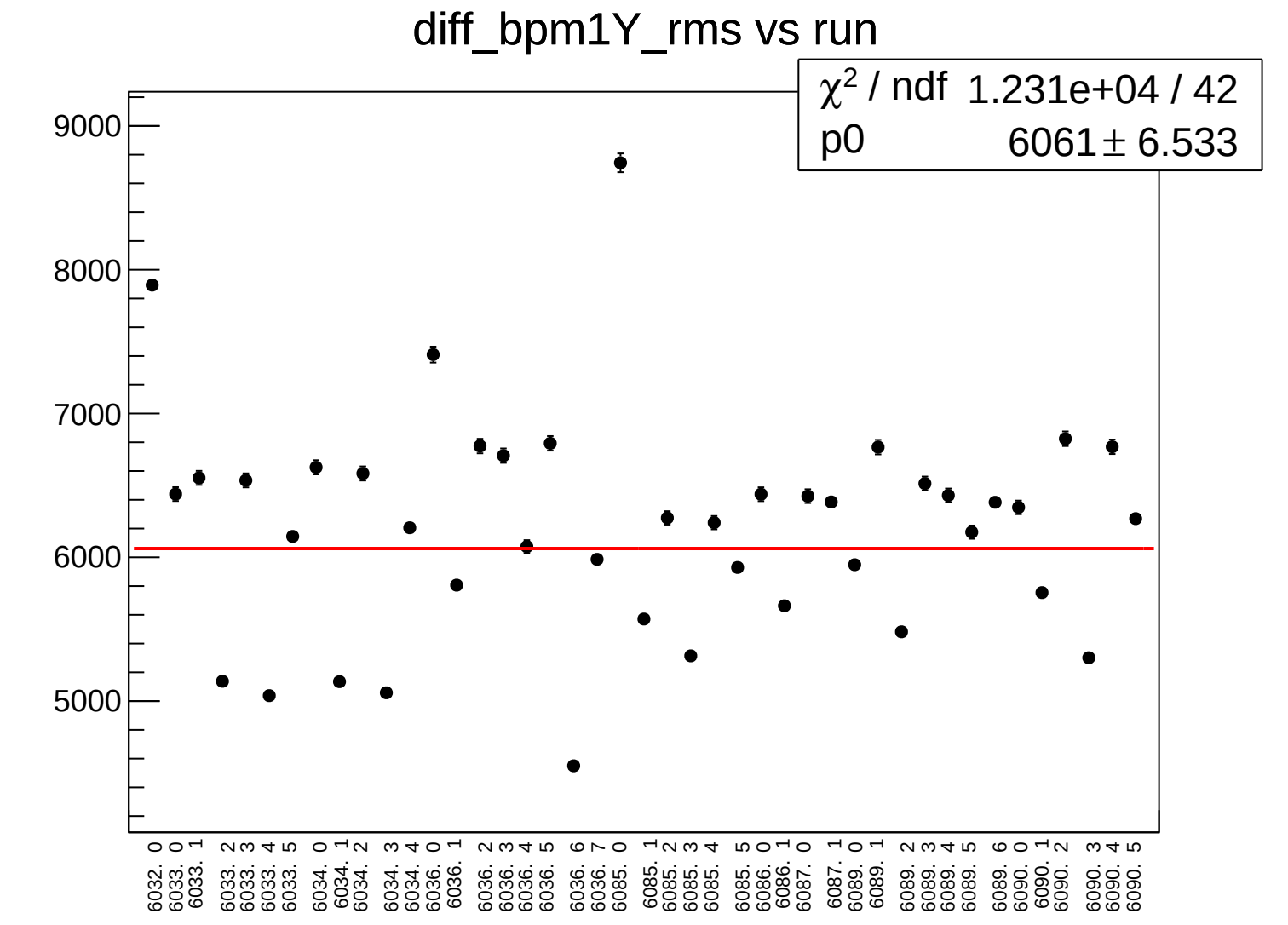

diff_bpm4ecY_rms vs run
χ² / ndf 3.359e+04 / 42
p0 6007 ± 6.556
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

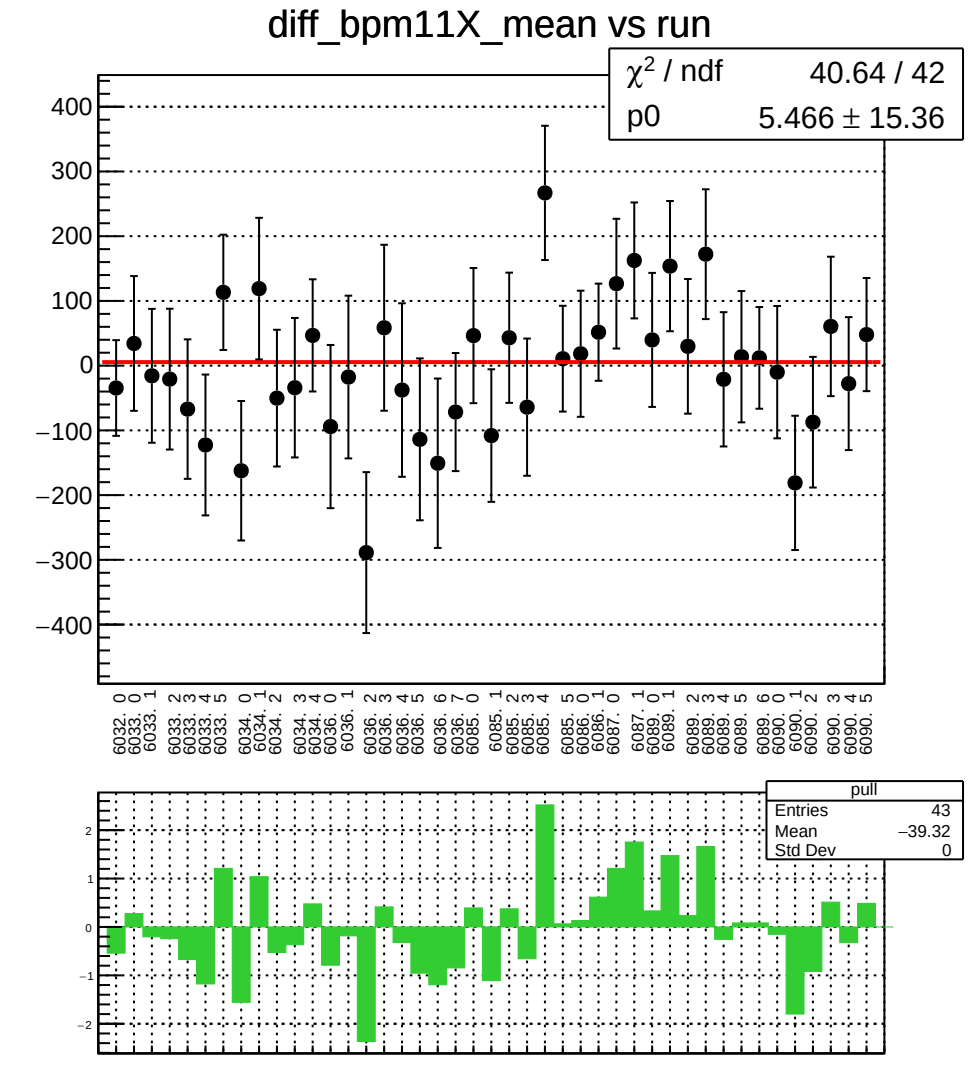

diff_bpm1X_mean vs run
χ² / ndf 41.49 / 42
p0 −11.16 ± 23.28
400
200
0
−200
−400
−600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −9.146
Std Dev 18.21
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01591
Std Dev 0.9822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

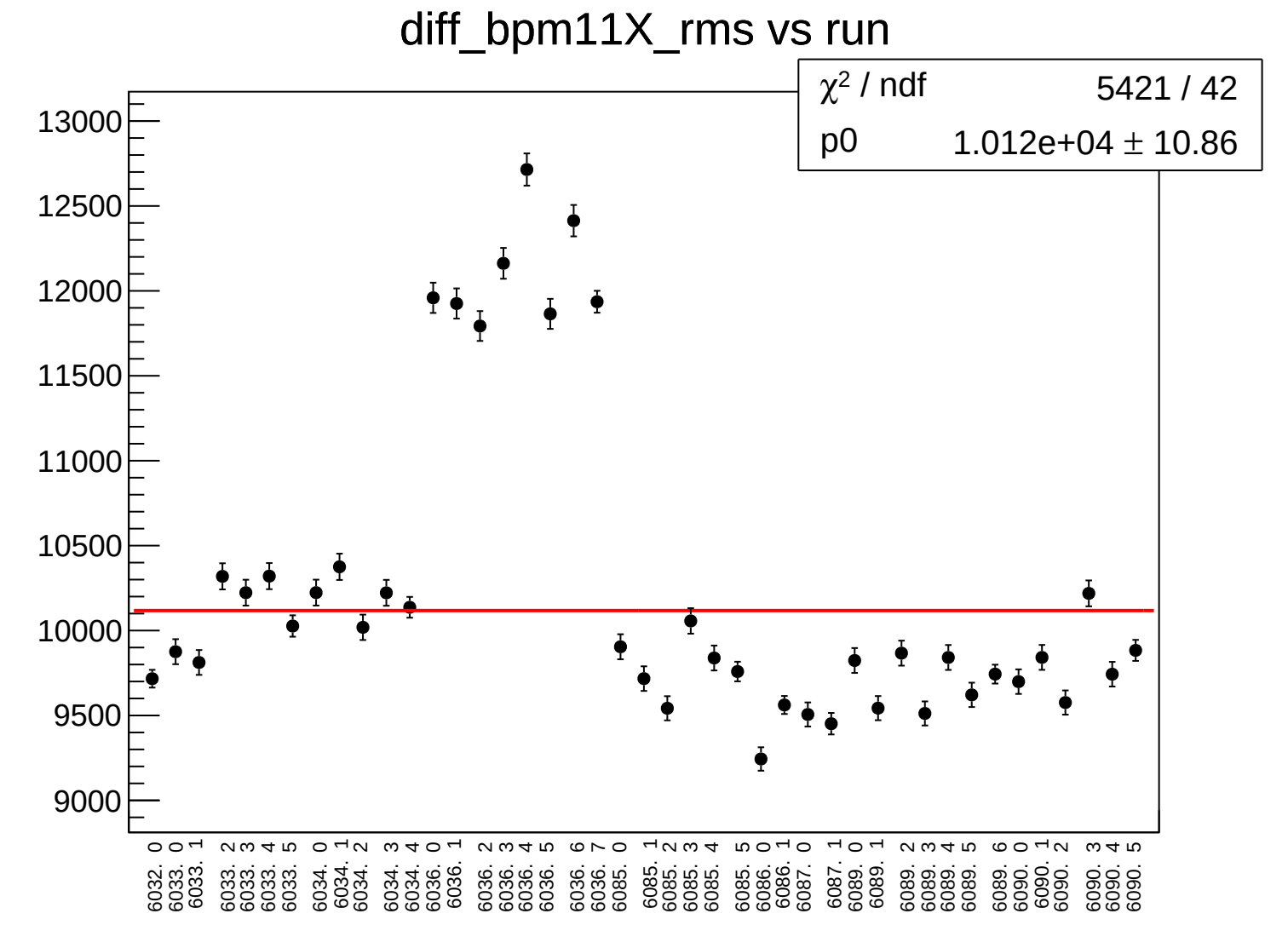

diff_bpm1X_rms vs run
χ² / ndf 4777 / 42
p0 1.534e+04 ± 16.46
20000
19000
18000
17000
16000
15000
14000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

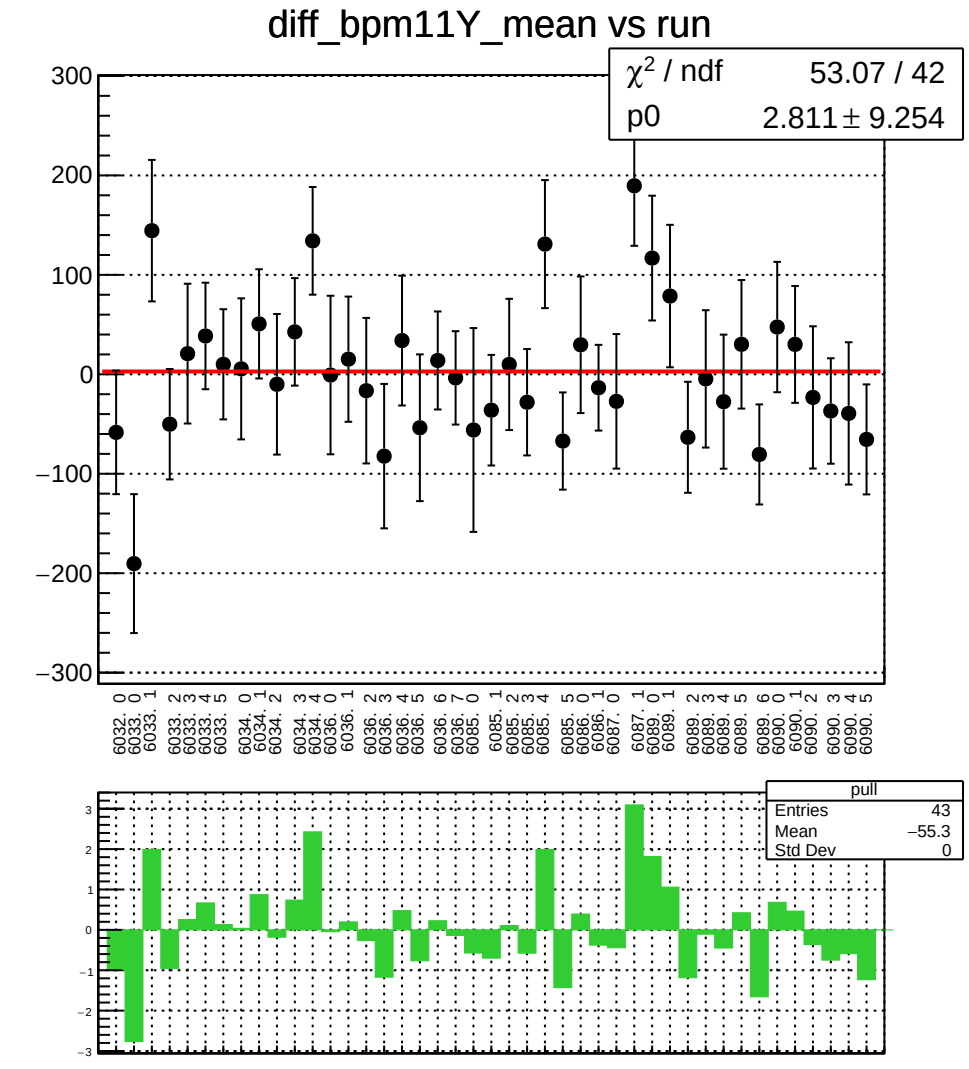

diff_bpm1Y_mean vs run
χ² / ndf 51.4 / 42
p0 4.74 ± 9.239
300
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.47
Std Dev 0
3
2
1
0
−1
−2

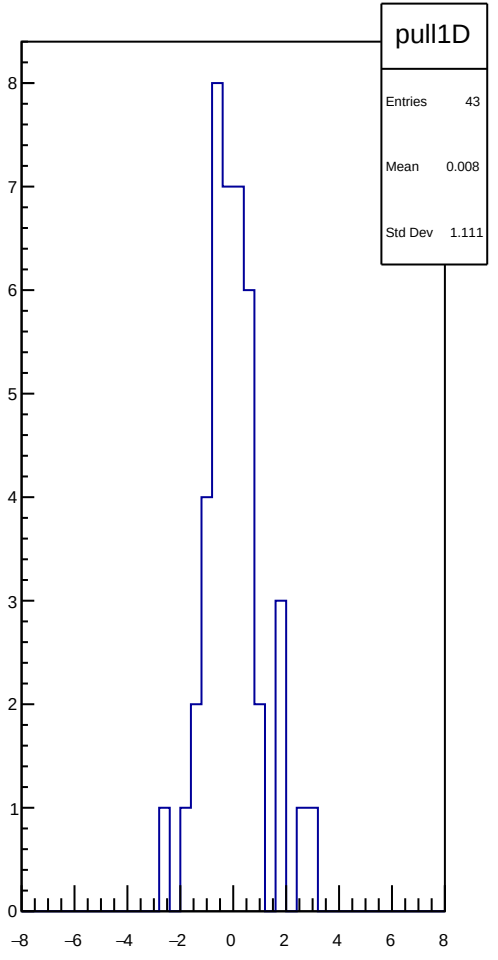

pull1D
Entries 43
Mean −0.008739
Std Dev 1.093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

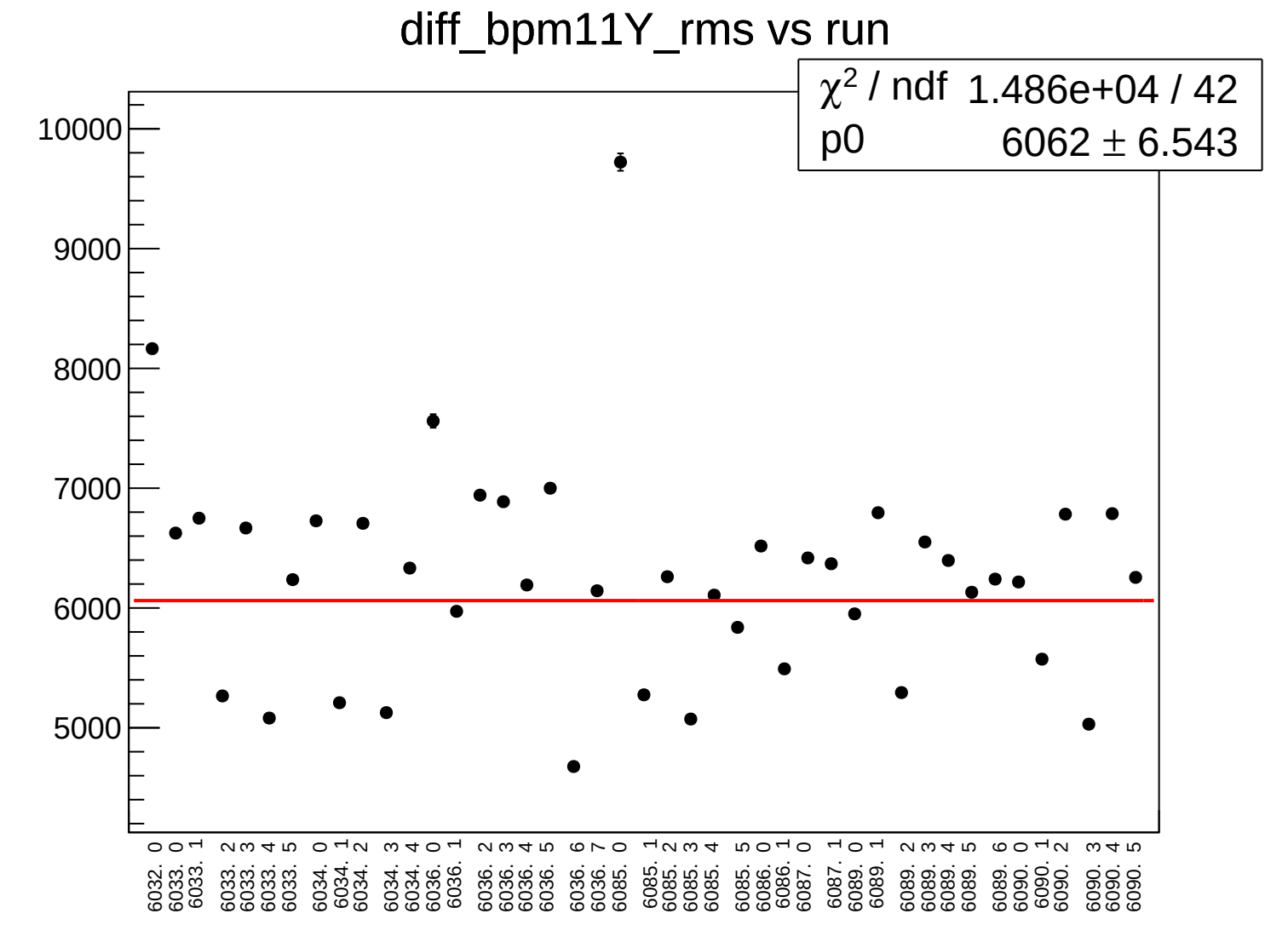

diff_bpm1Y_rms vs run
χ^2 / ndf 1.231e+04 / 42
p0 6061 ± 6.533
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

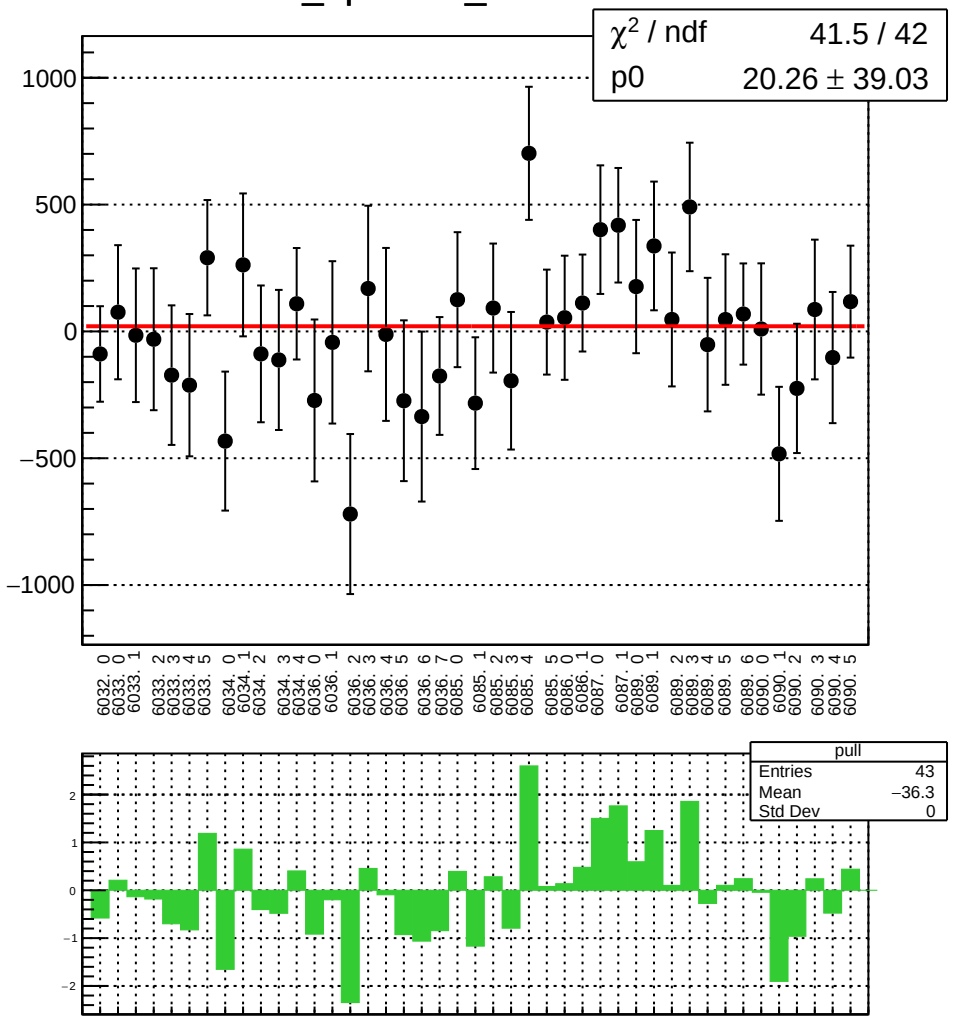

diff_bpm11X_mean vs run
χ² / ndf 40.64 / 42
p0 5.466 ± 15.36
pull
Entries 43
Mean −39.32
Std Dev 0
pull1D
Entries 43
Mean −0.04207
Std Dev 0.9713

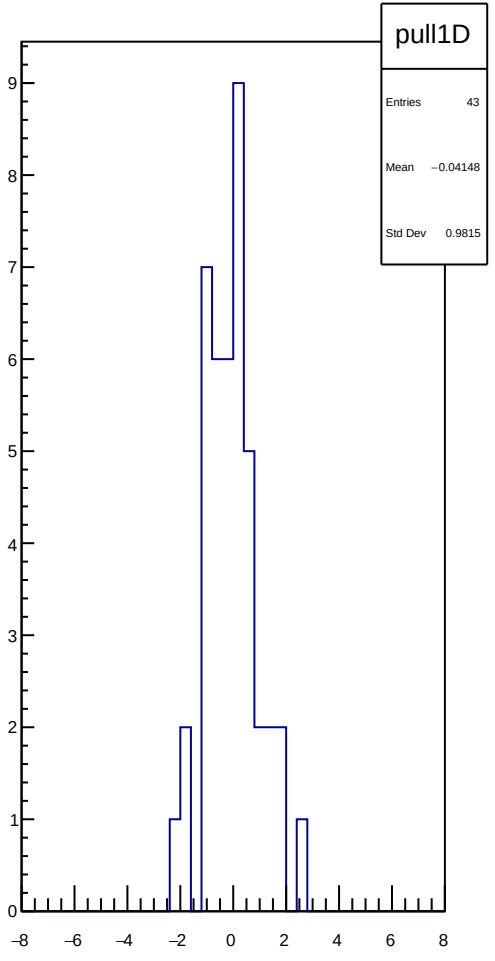

diff_bpm11X_rms vs run
χ² / ndf 5421 / 42
p0 1.012e+04 ± 10.86
13000
12500
12000
11500
11000
10500
10000
9500
9000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

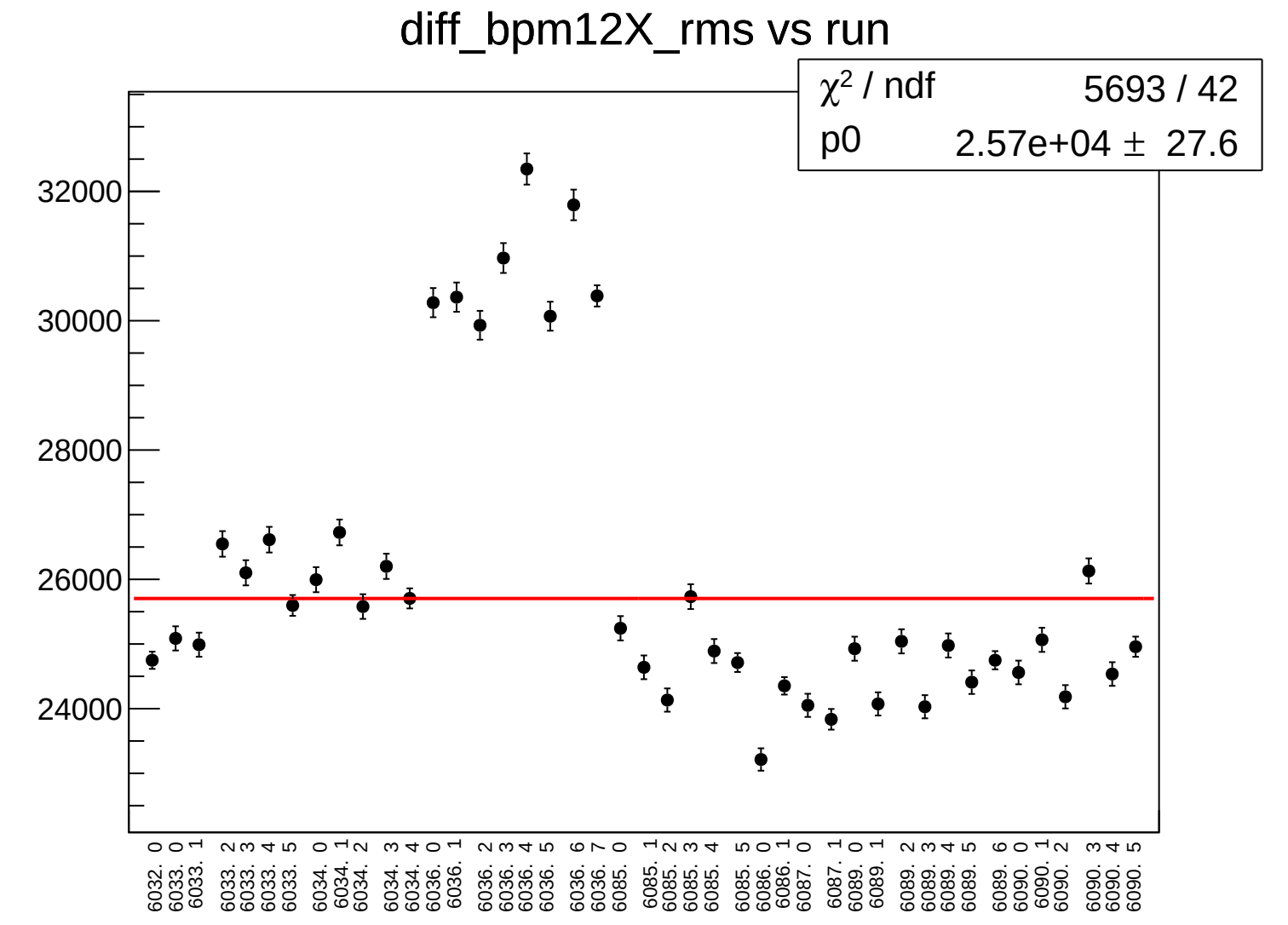

diff_bpm11Y_mean vs run
χ² / ndf 53.07 / 42
p0 2.811 ± 9.254
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −55.3
Std Dev 0
3
2
1
0
−1
−2
−3

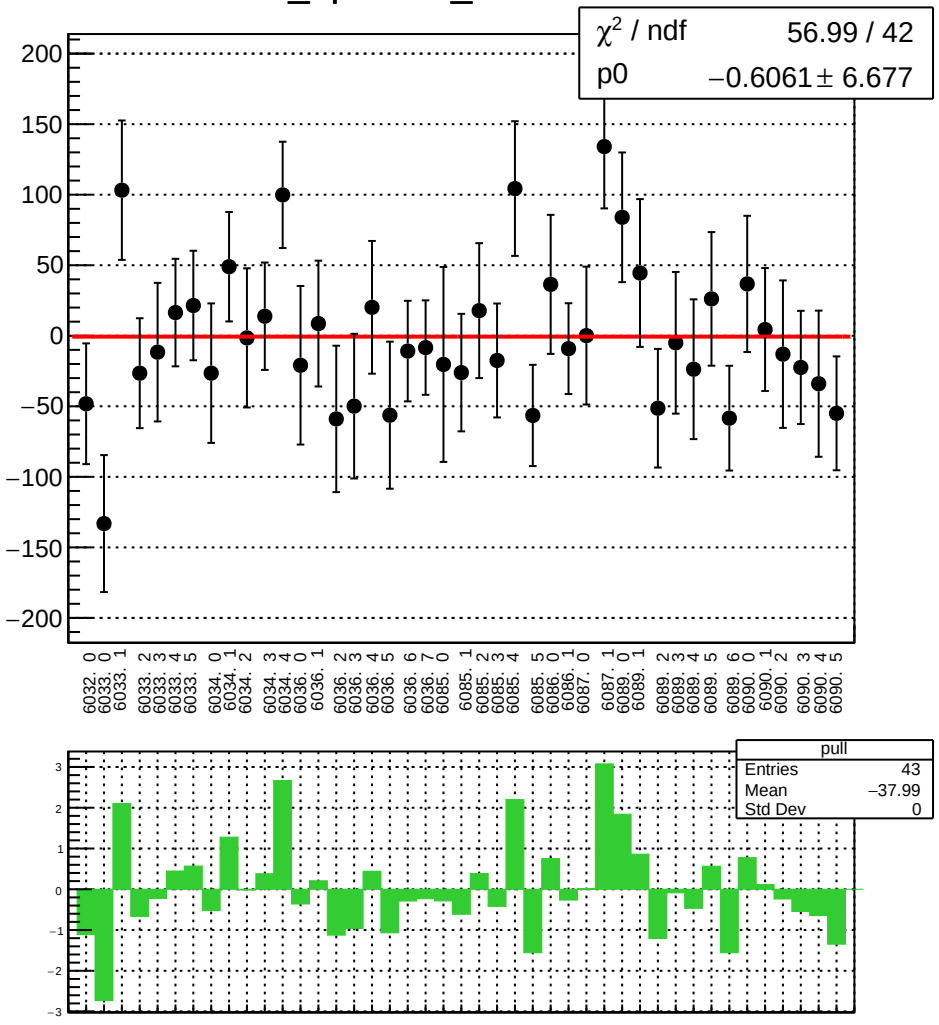

pull1D
Entries 43
Mean 0.008
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

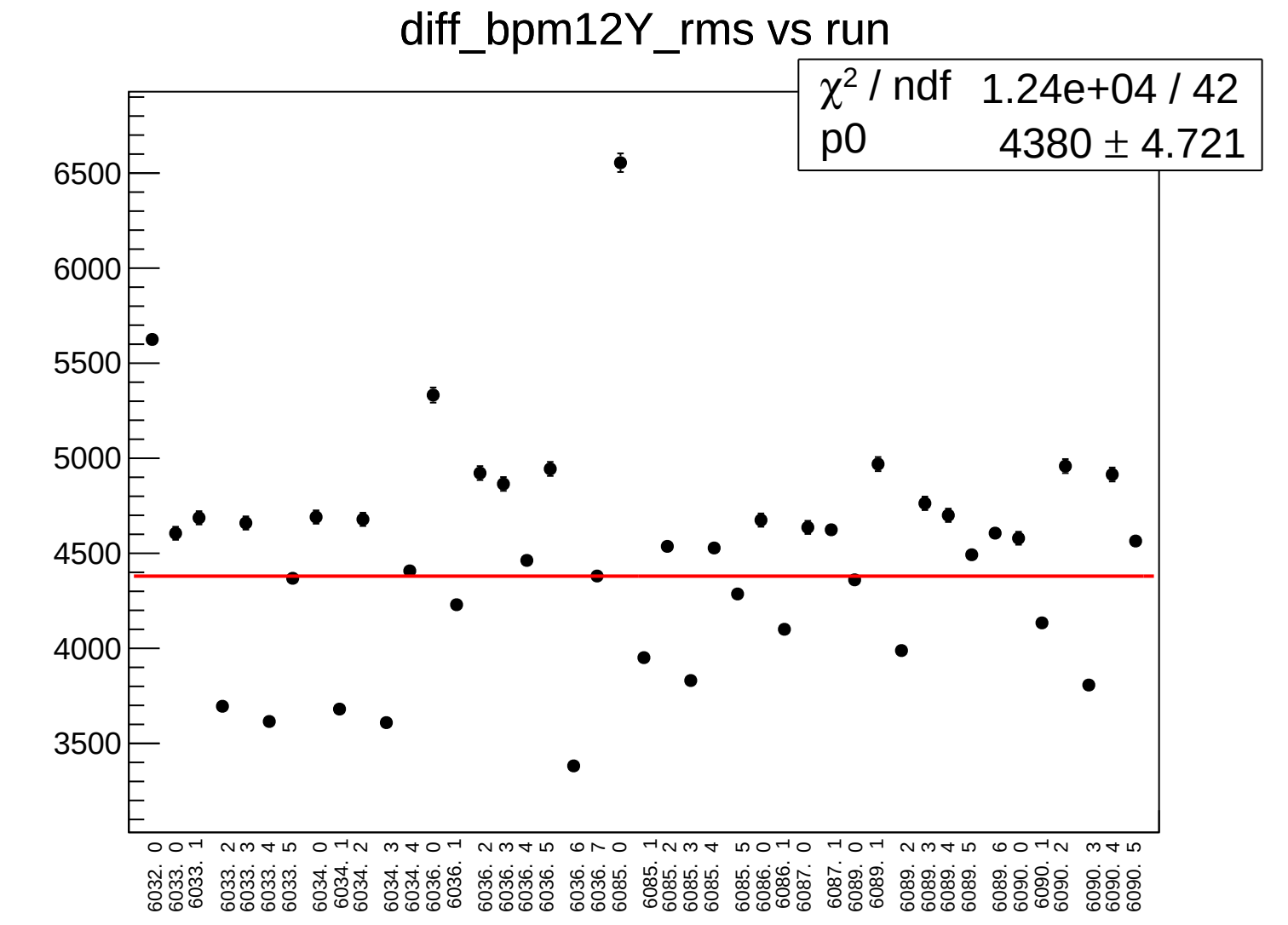

diff_bpm11Y_rms vs run
χ² / ndf 1.486e+04 / 42
p0 6062 ± 6.543
10000
9000
8000
7000
6000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

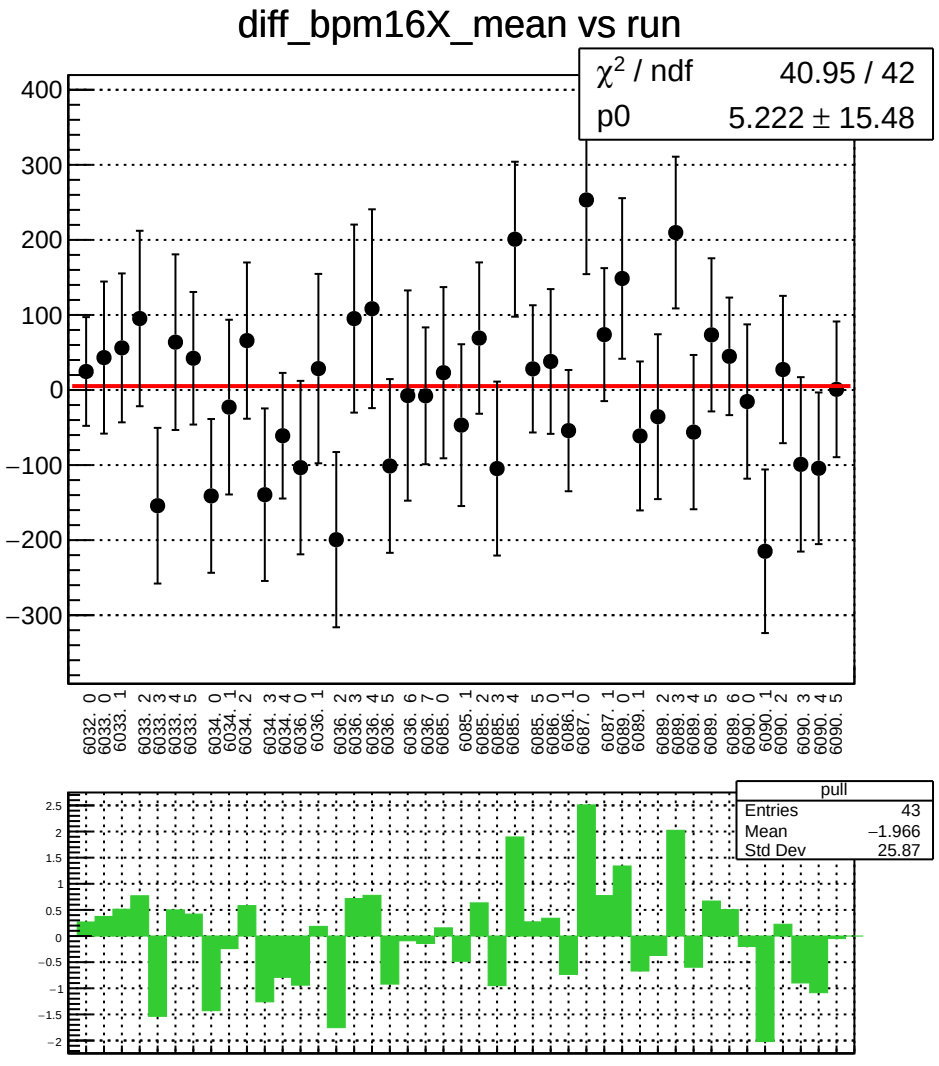

diff_bpm12X_mean vs run
χ² / ndf 41.5 / 42
p0 20.26 ± 39.03
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.3
Std Dev 0
2
1
0
−1
−2

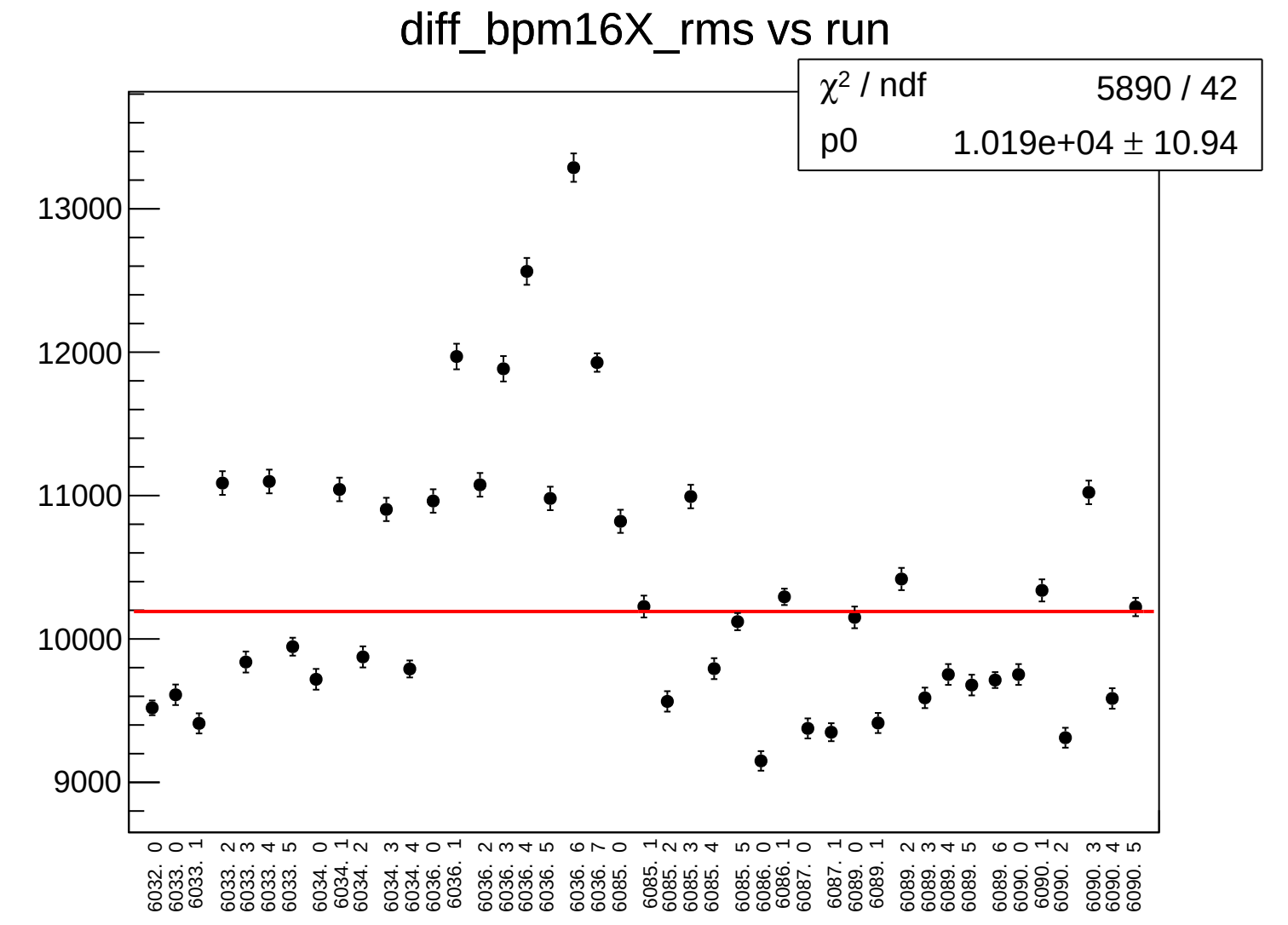

pull1D
Entries 43
Mean −0.04148
Std Dev 0.9815
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

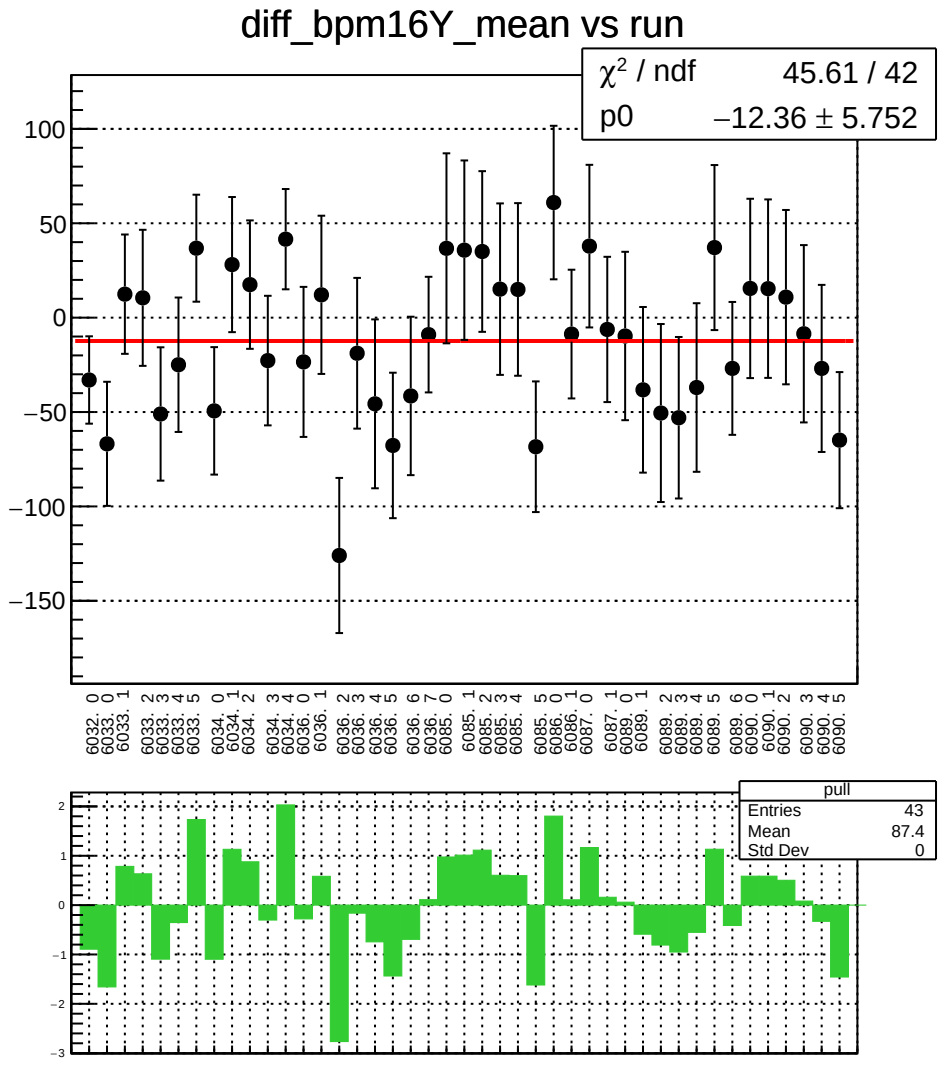

diff_bpm12X_rms vs run
χ² / ndf 5693 / 42
p0 2.57e+04 ± 27.6
32000
30000
28000
26000
24000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

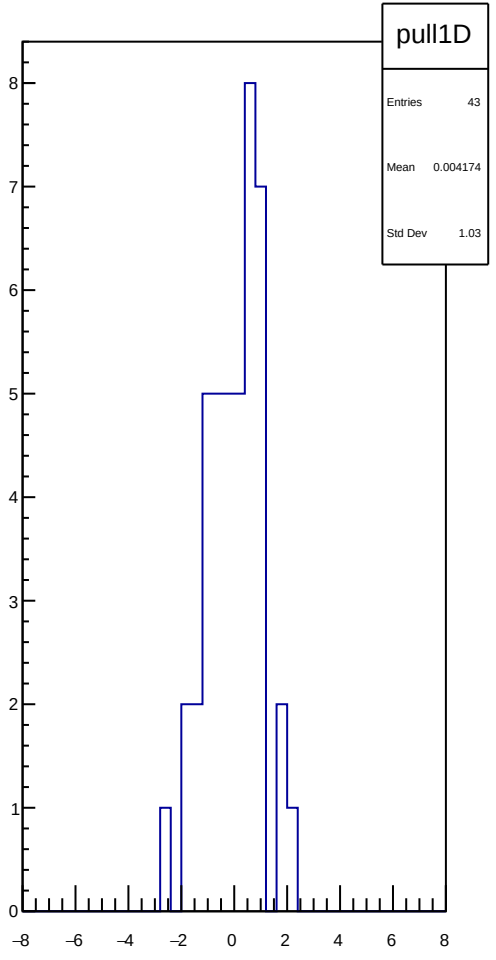

diff_bpm12Y_mean vs run
χ² / ndf 56.99 / 42
p0 −0.6061 ± 6.677
pull
Entries 43
Mean −37.99
Std Dev 0
pull1D
Entries 43
Mean 0.003194
Std Dev 1.151

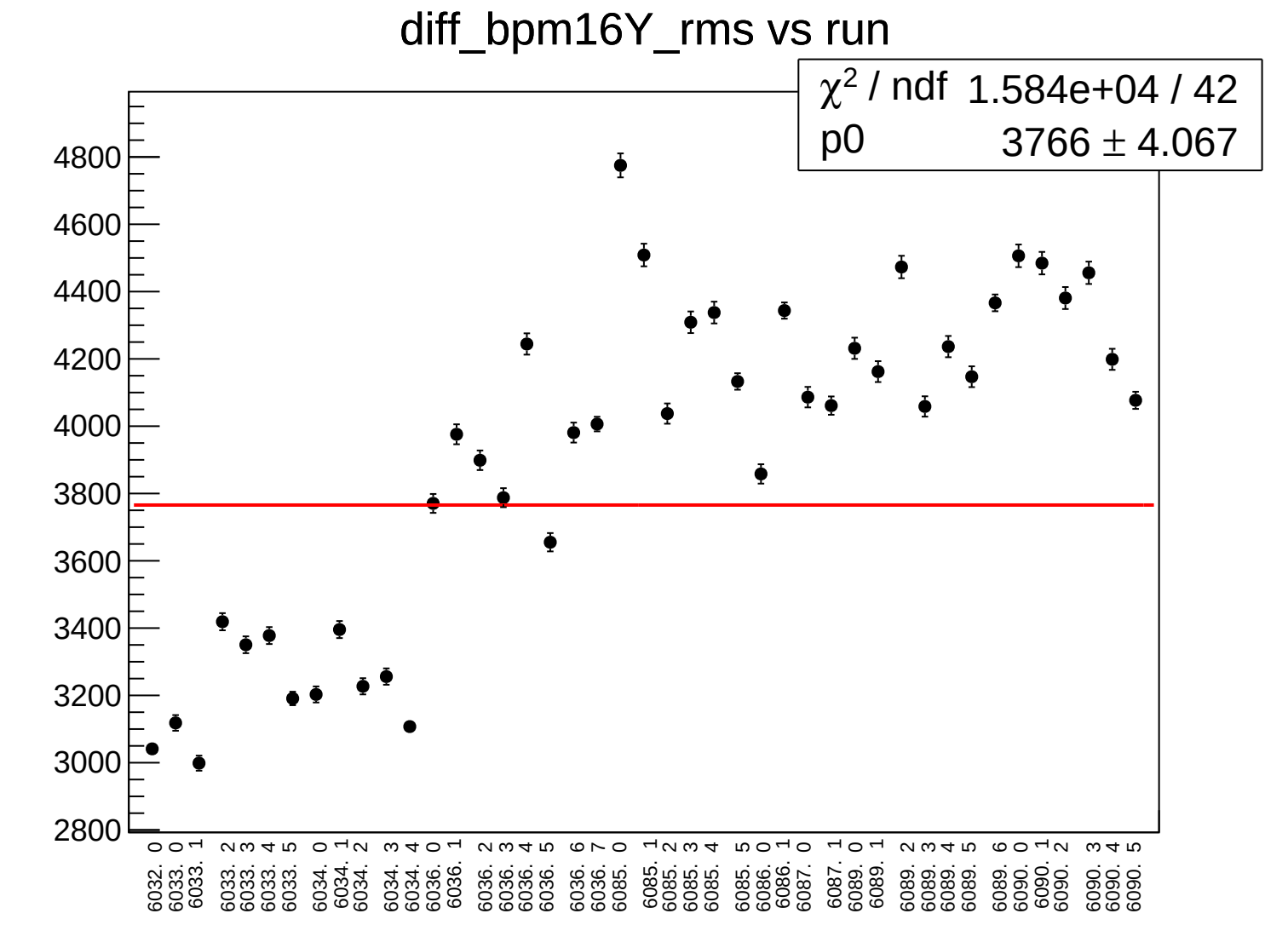

diff_bpm12Y_rms vs run
χ² / ndf 1.24e+04 / 42
p0 4380 ± 4.721
6500
6000
5500
5000
4500
4000
3500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

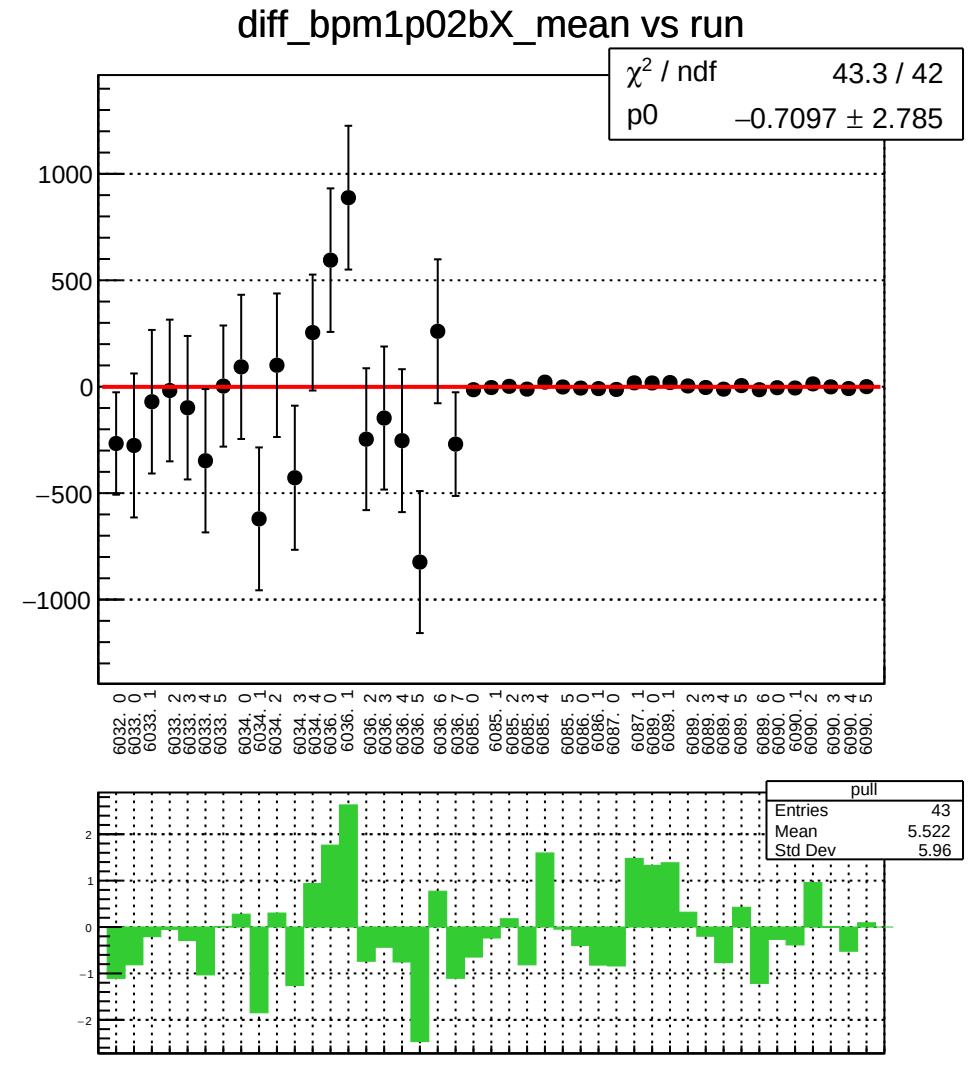

diff_bpm16X_mean vs run
χ² / ndf 40.95 / 42
p0 5.222 ± 15.48
400
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.966
Std Dev 25.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01606
Std Dev 0.9758
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

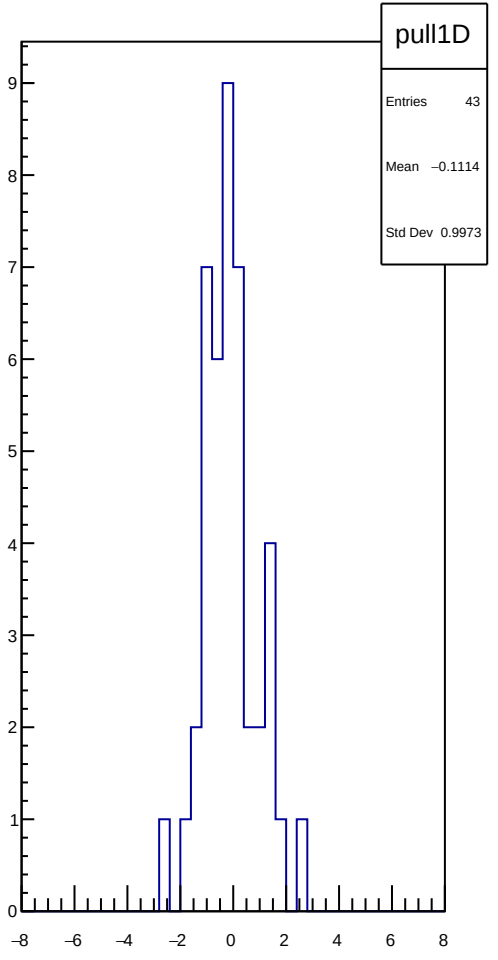

diff_bpm16X_rms vs run
χ² / ndf 5890 / 42
p0 1.019e+04 ± 10.94
13000
12000
11000
10000
9000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

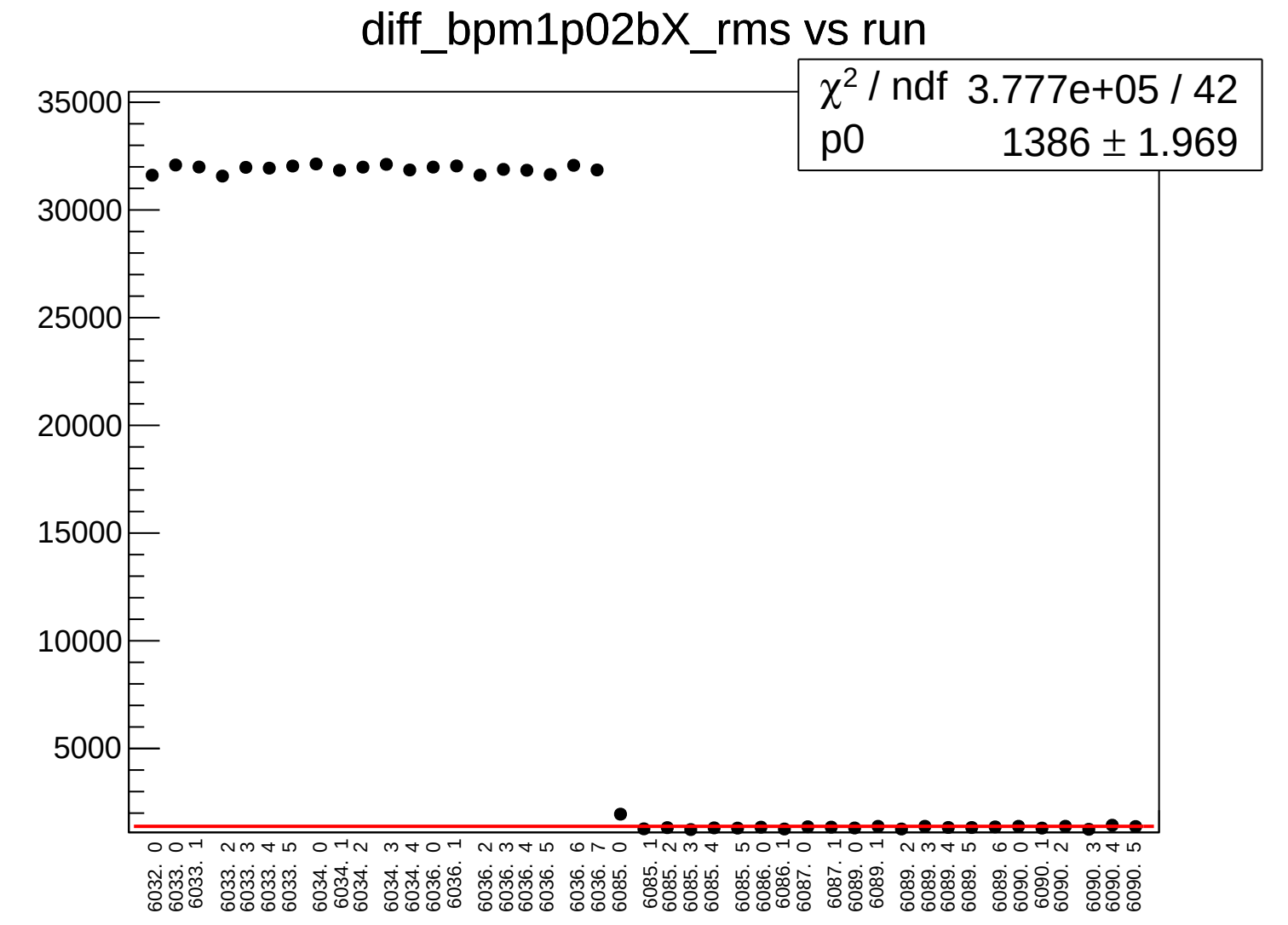

diff_bpm16Y_mean vs run
χ² / ndf 45.61 / 42
p0 −12.36 ± 5.752
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 87.4
Std Dev 0
2
1
0
−1
−2
−3

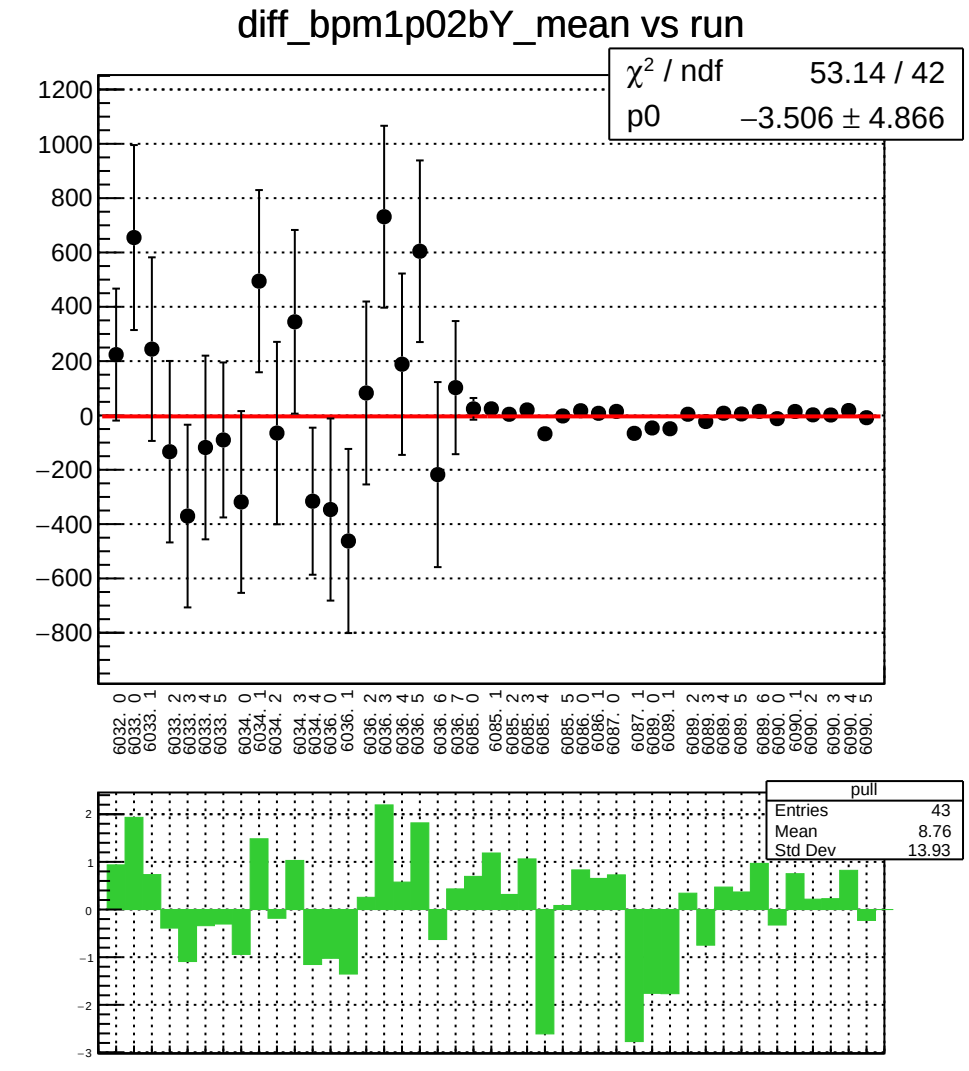

pull1D
Entries 43
Mean 0.004174
Std Dev 1.03
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

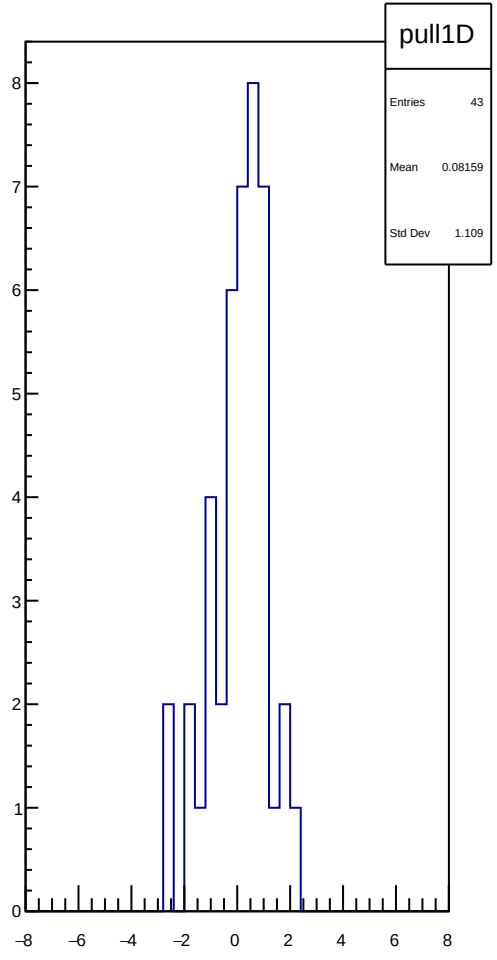

diff_bpm16Y_rms vs run
χ² / ndf 1.584e+04 / 42
p0 3766 ± 4.067
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

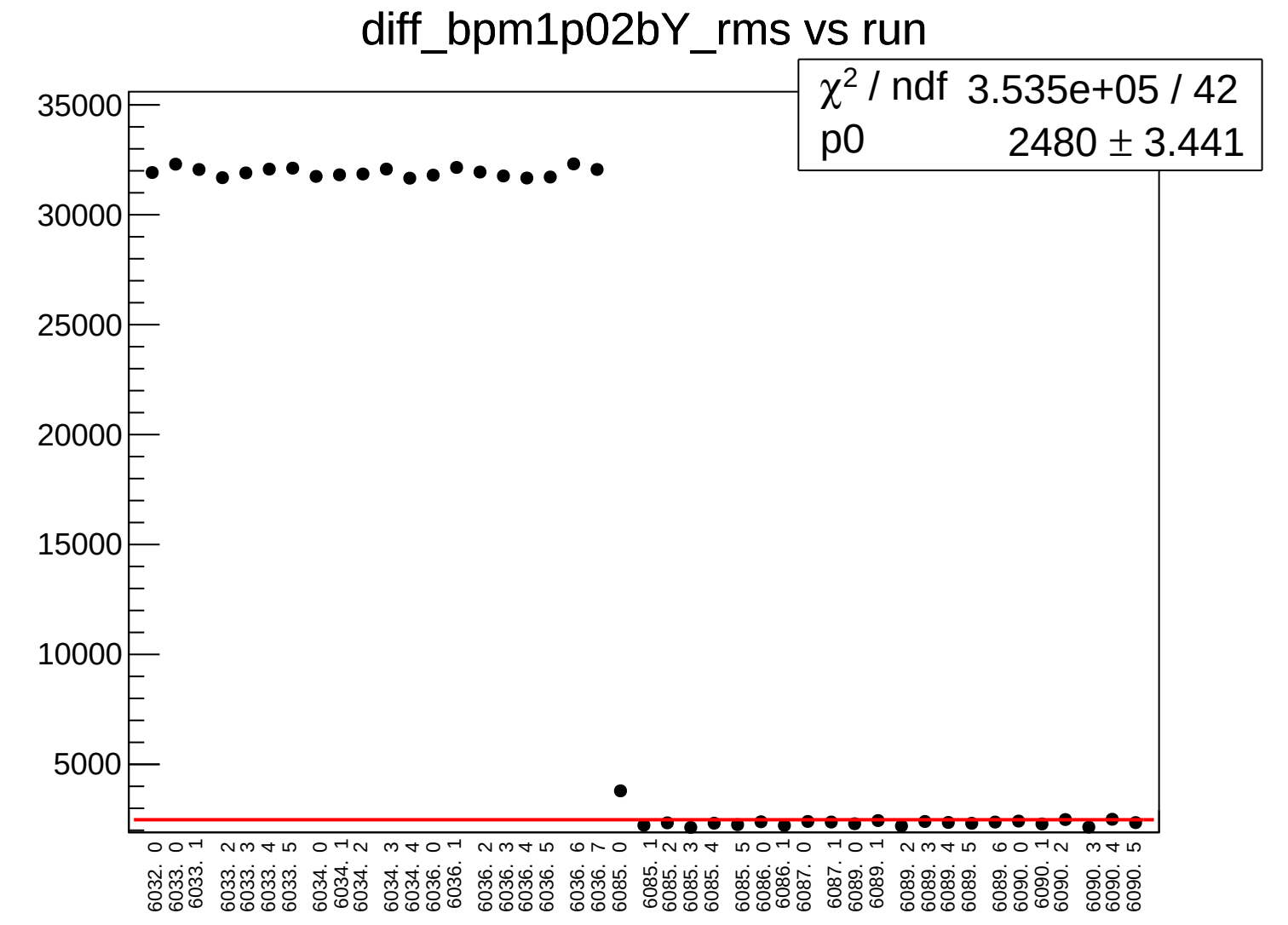

diff_bpm1p02bX_mean vs run
χ² / ndf 43.3 / 42
p0 −0.7097 ± 2.785
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 5.522
Std Dev 5.96
2
1
0
−1
−2

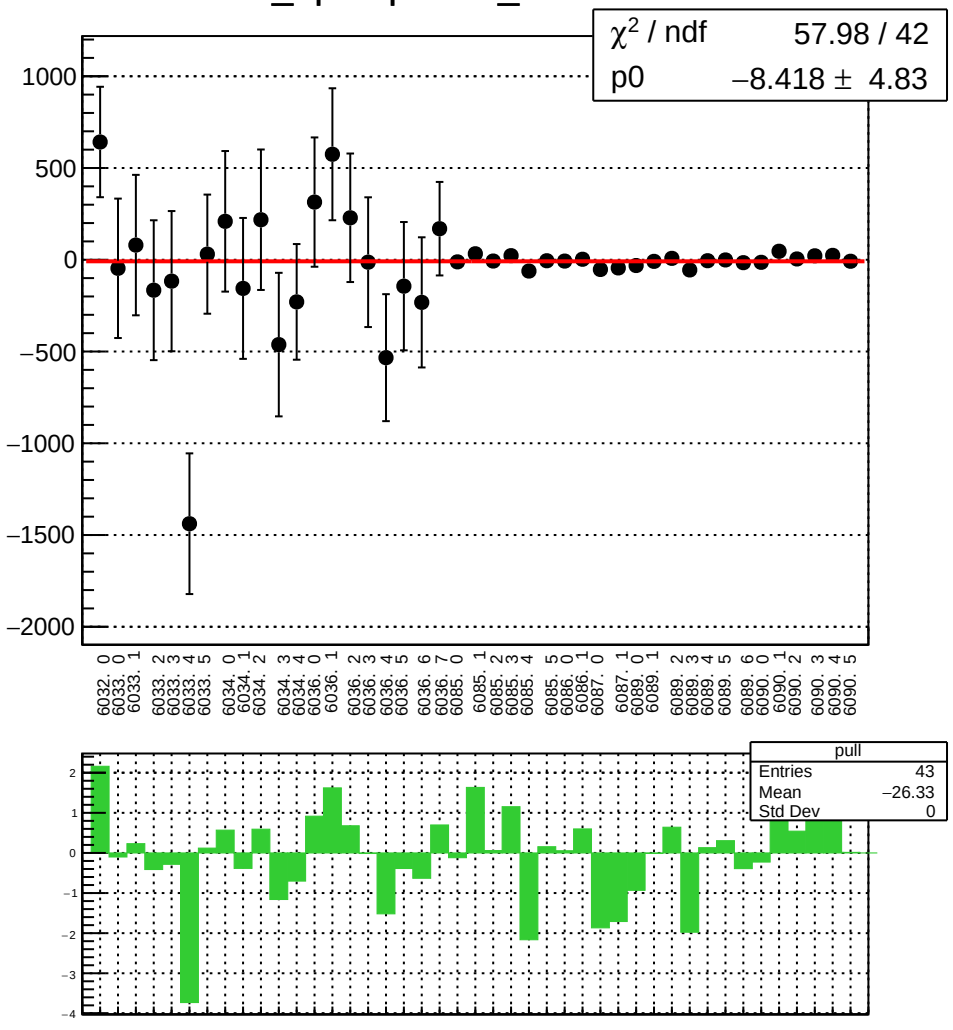

pull1D
Entries 43
Mean −0.1114
Std Dev 0.9973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

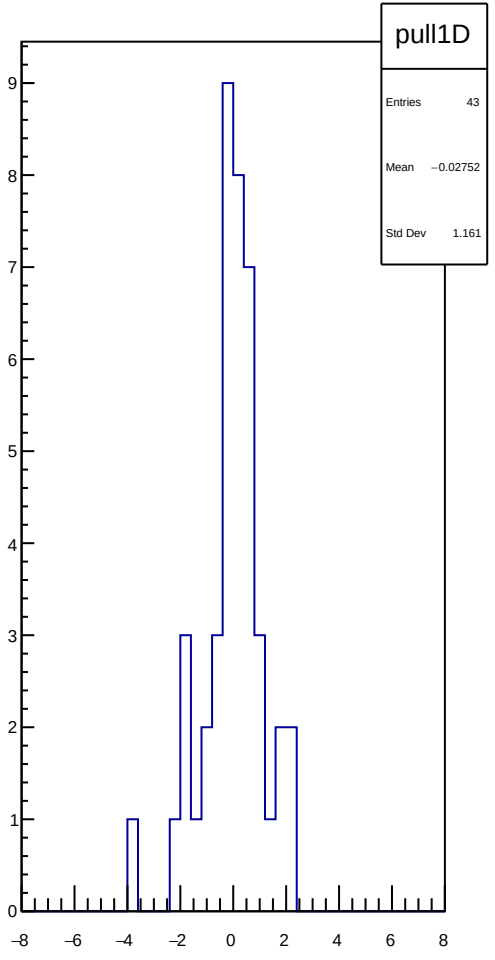

diff_bpm1p02bX_rms vs run
χ² / ndf 3.777e+05 / 42
p0 1386 ± 1.969
35000
30000
25000
20000
15000
10000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

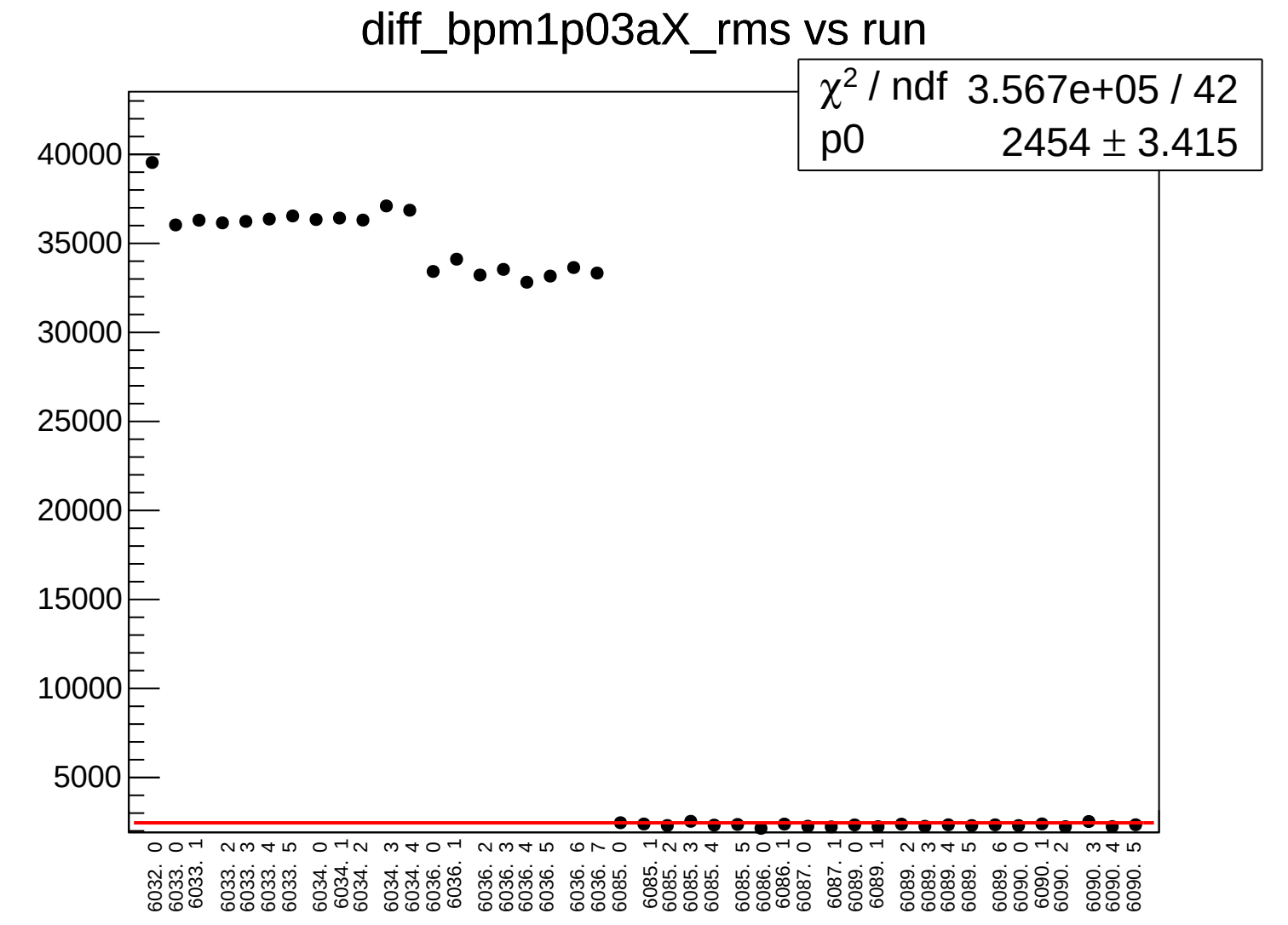

diff_bpm1p02bY_mean vs run
χ² / ndf 53.14 / 42
p0 −3.506 ± 4.866
pull
Entries 43
Mean 8.76
Std Dev 13.93

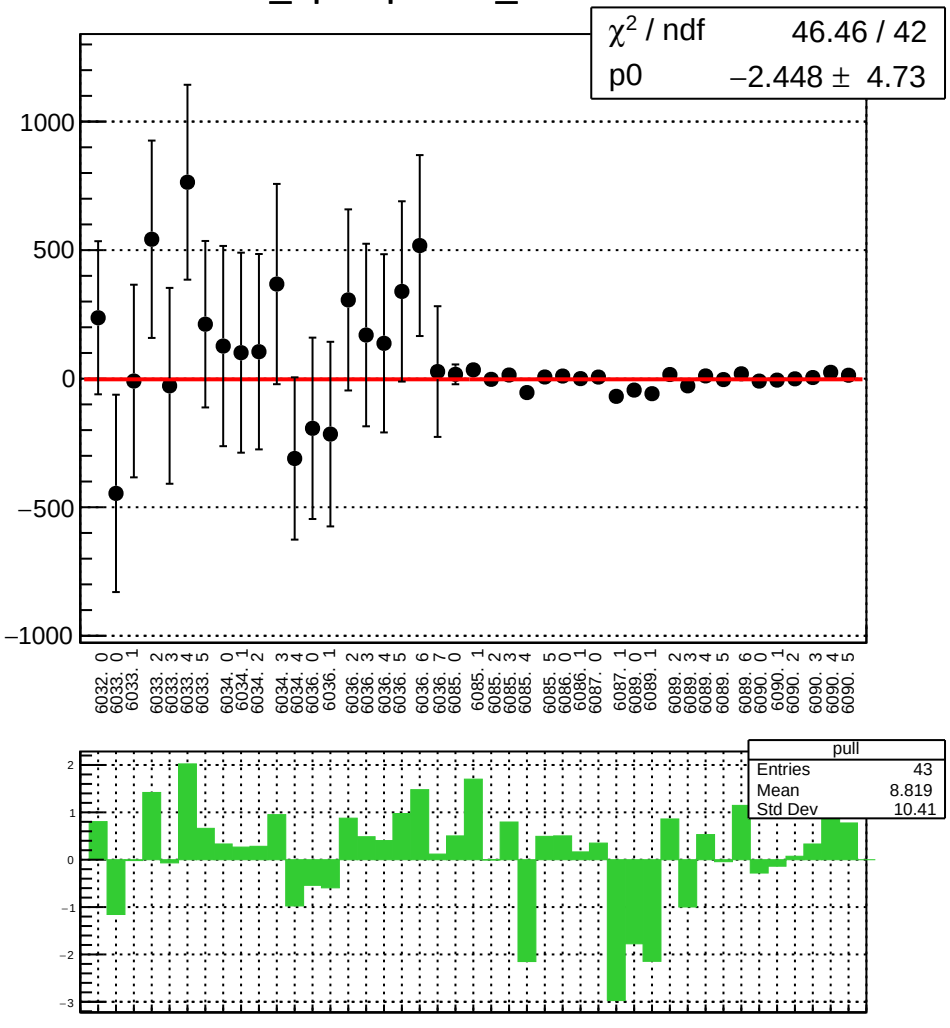

pull1D
Entries 43
Mean 0.08159
Std Dev 1.109

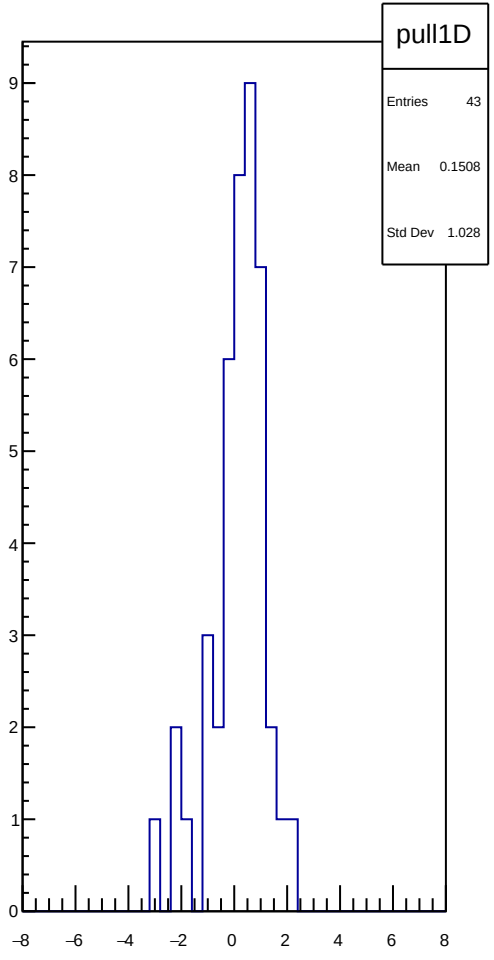

diff_bpm1p02bY_rms vs run
χ² / ndf 3.535e+05 / 42
p0 2480 ± 3.441
35000
30000
25000
20000
15000
10000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

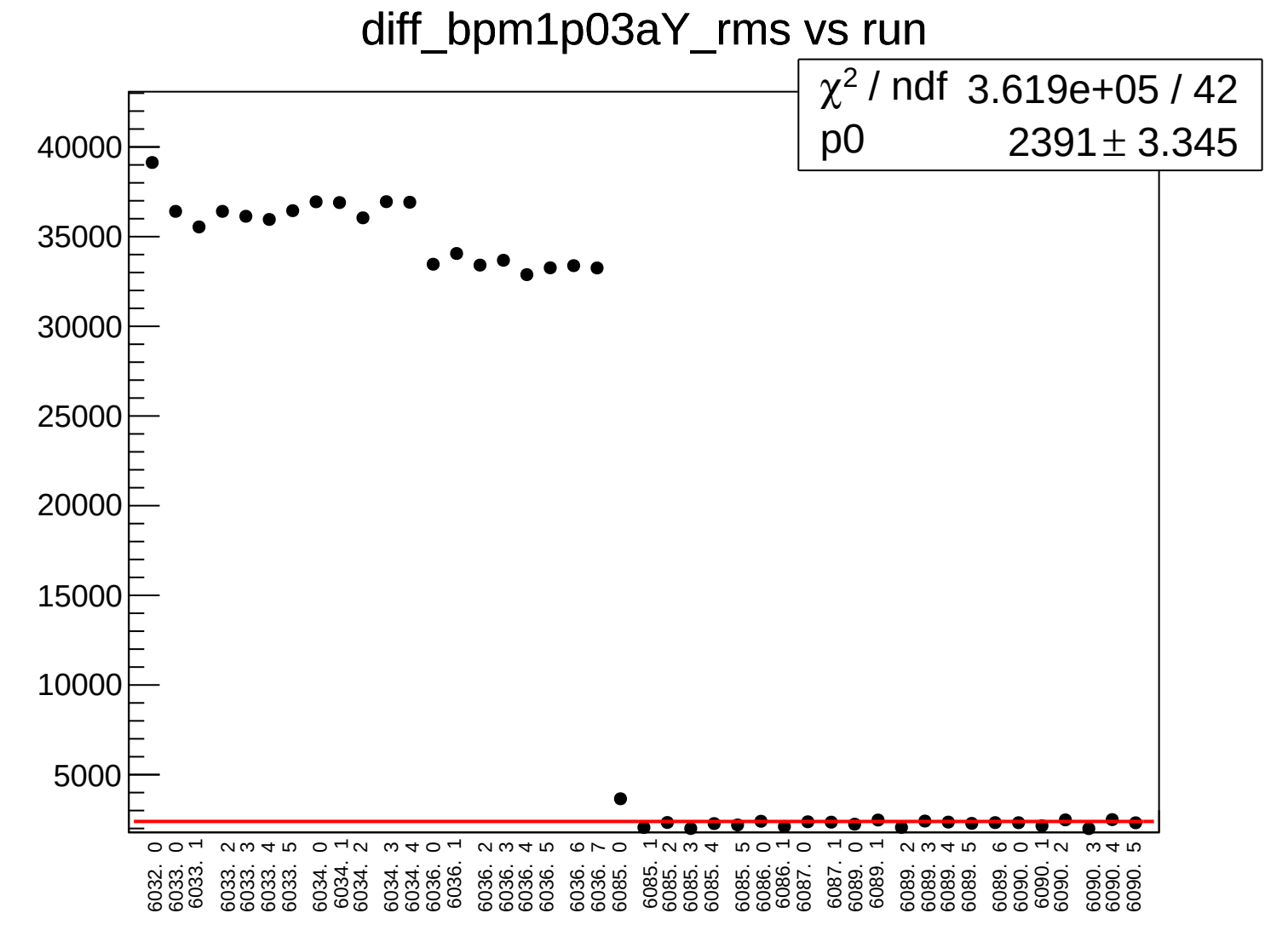

diff_bpm1p03aX_mean vs run
χ² / ndf 57.98 / 42
p0 −8.418 ± 4.83
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −26.33
Std Dev 0
2
1
0
−1
−2
−3
−4

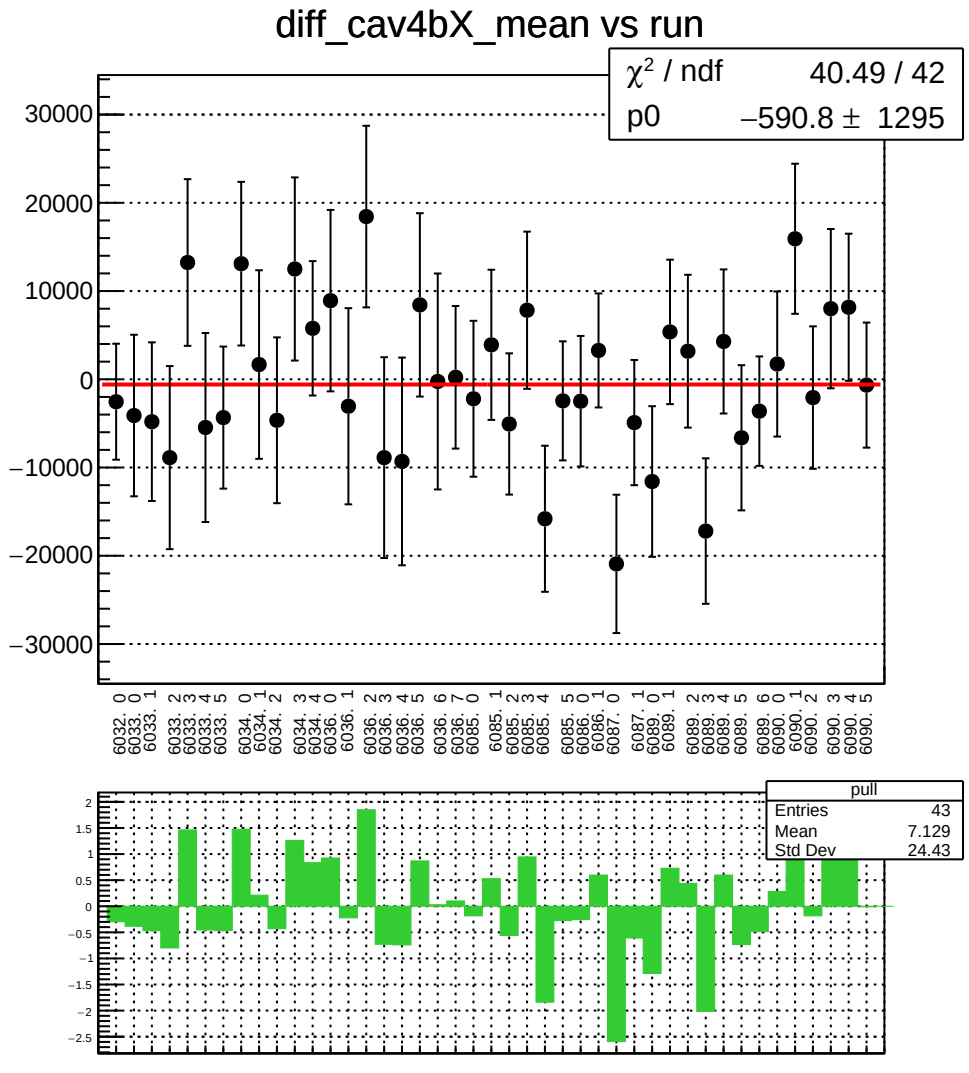

pull1D
Entries 43
Mean −0.02752
Std Dev 1.161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

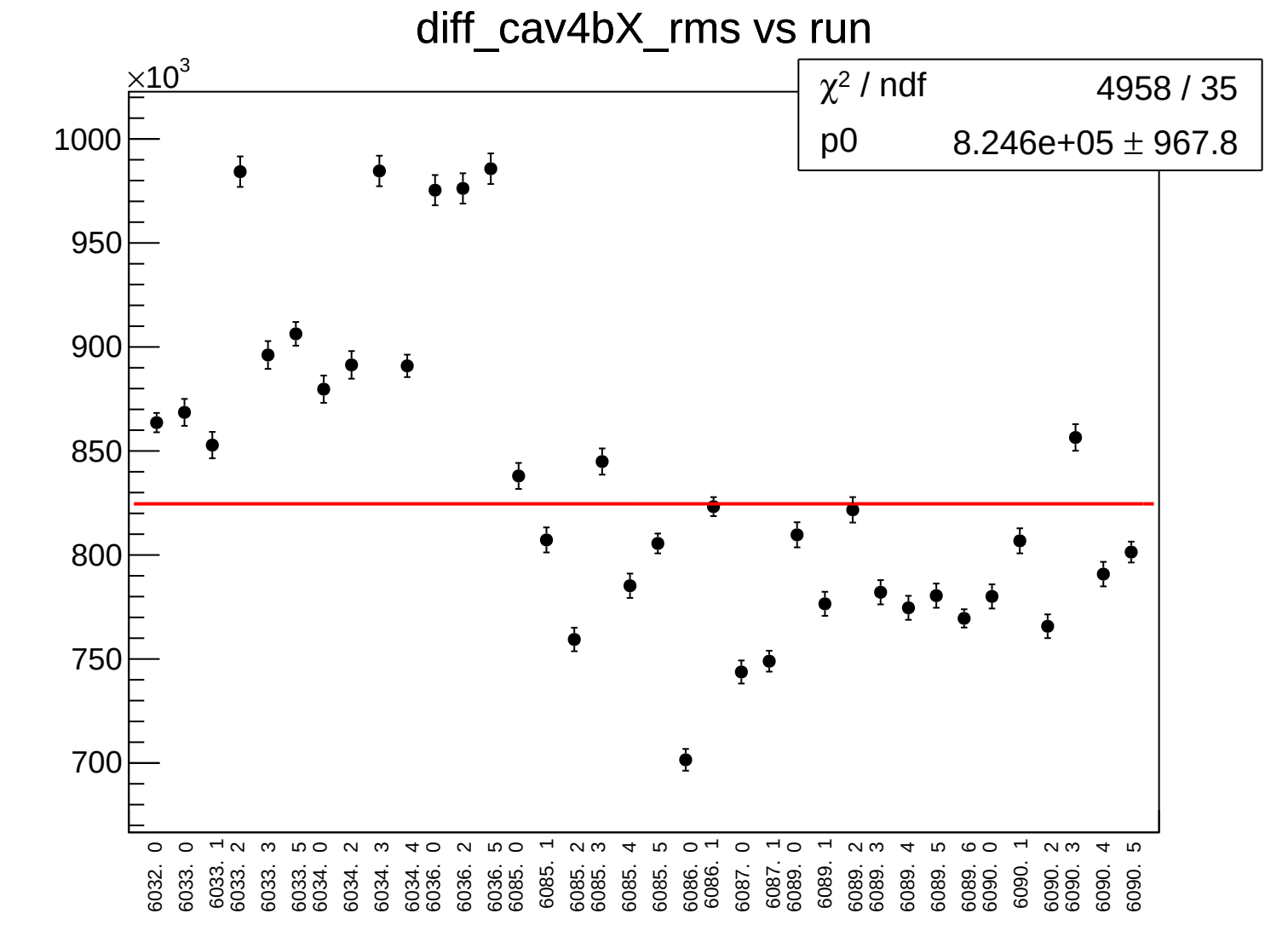

diff_bpm1p03aX_rms vs run
χ² / ndf 3.567e+05 / 42
p0 2454 ± 3.415
40000
35000
30000
25000
20000
15000
10000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

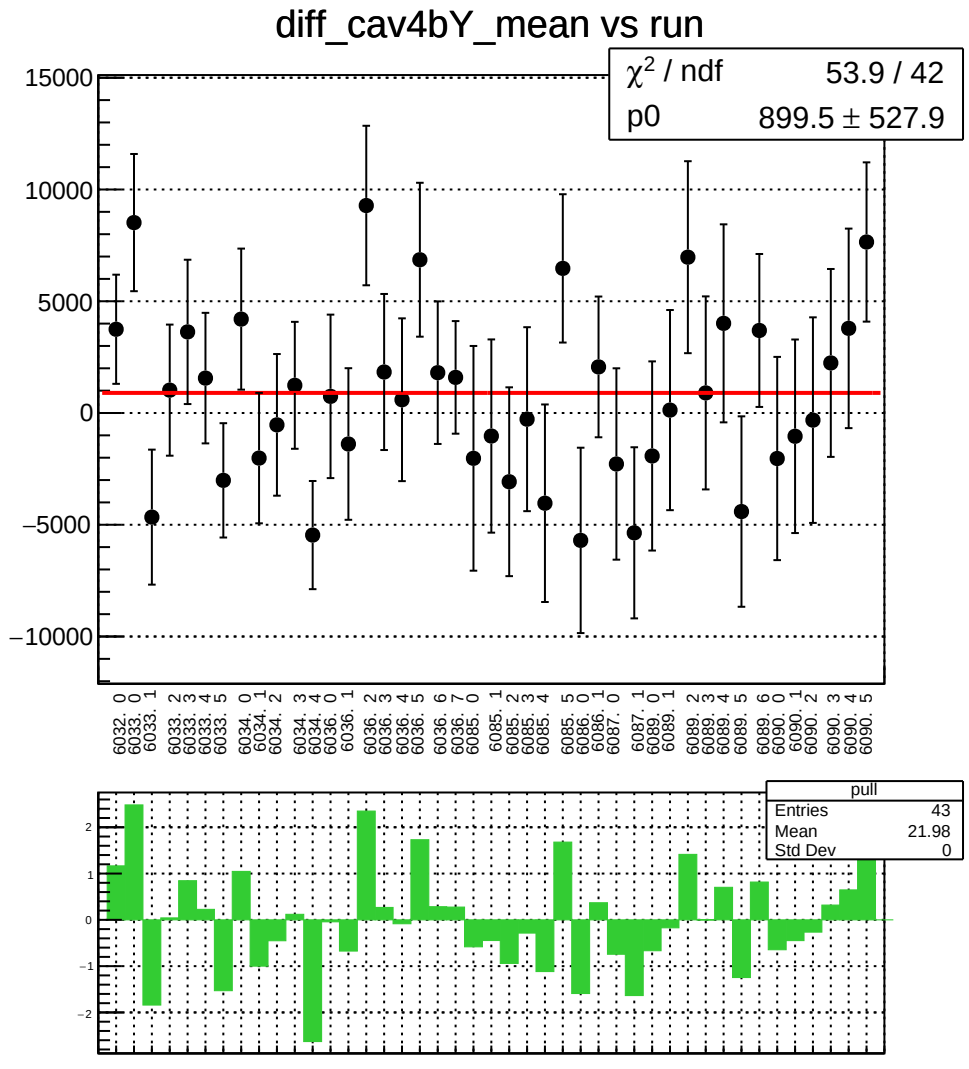

diff_bpm1p03aY_mean vs run
χ² / ndf 46.46 / 42
p0 −2.448 ± 4.73
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.819
Std Dev 10.41
2
1
0
−1
−2
−3

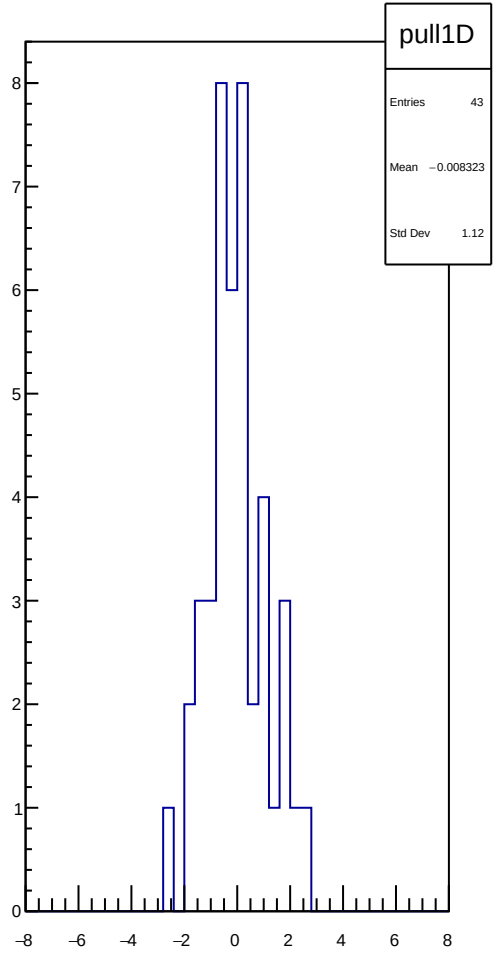

pull1D
Entries 43
Mean 0.1508
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

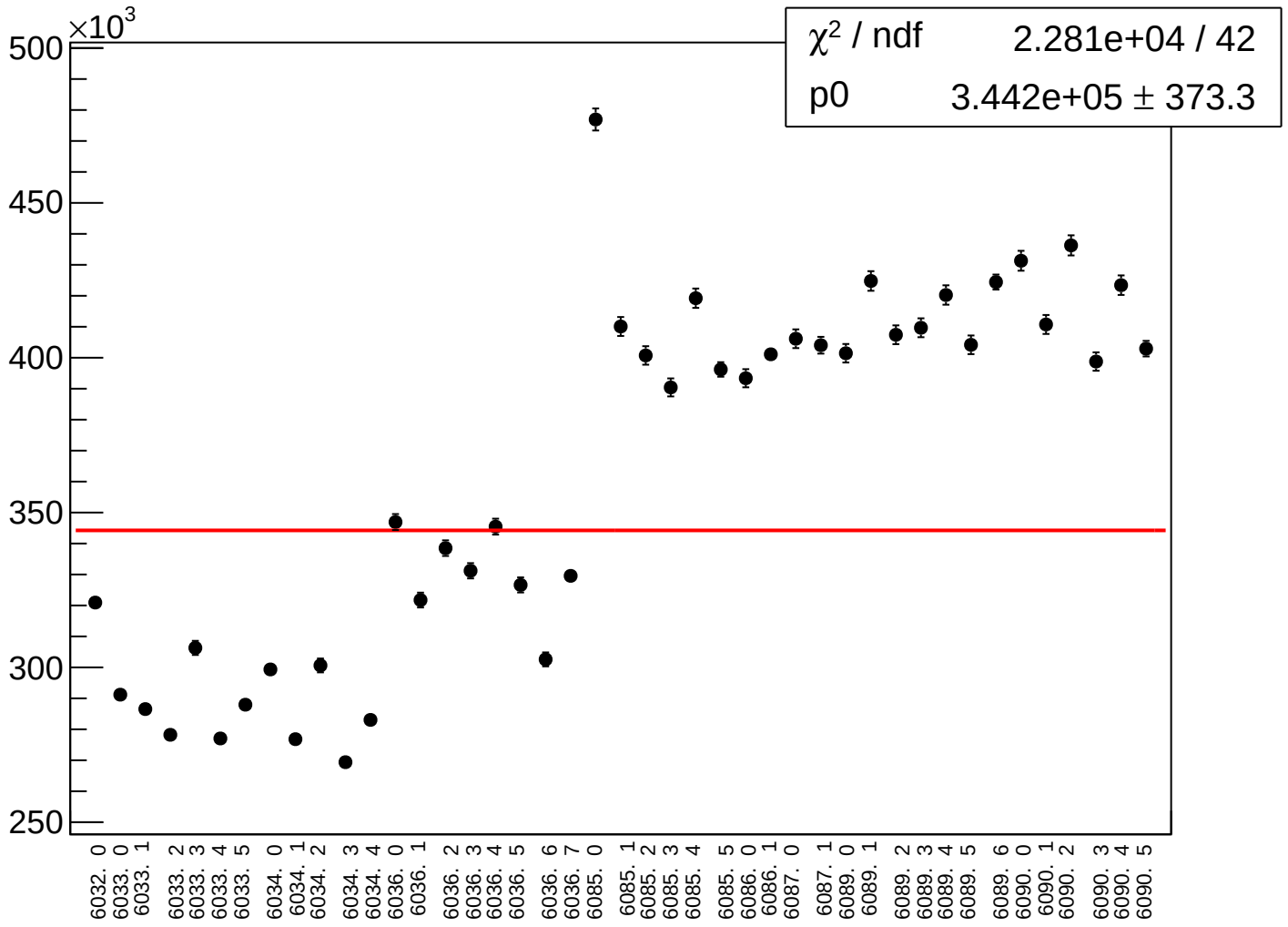

diff_bpm1p03aY_rms vs run
χ² / ndf 3.619e+05 / 42
p0 2391 ± 3.345
40000
35000
30000
25000
20000
15000
10000
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

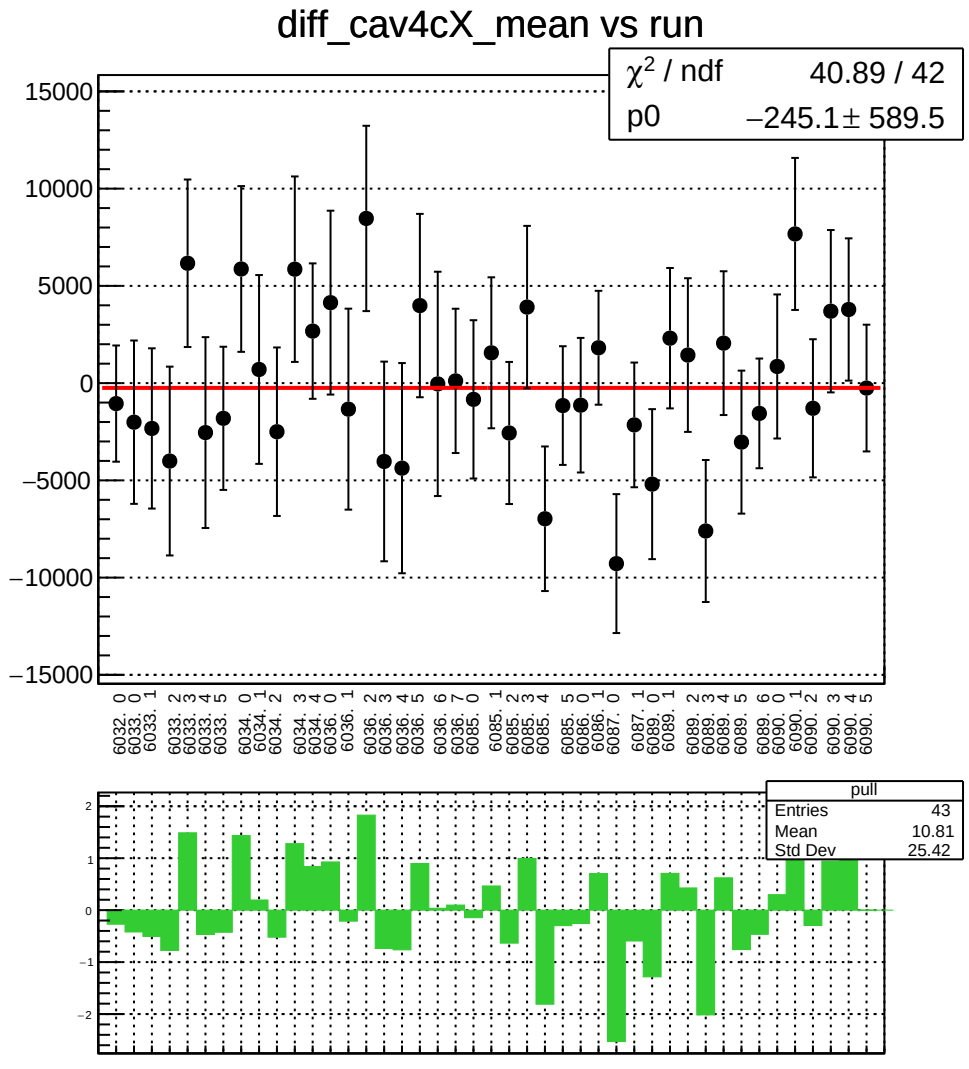

diff_cav4bX_mean vs run
χ² / ndf 40.49 / 42
p0 −590.8 ± 1295
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.129
Std Dev 24.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02471
Std Dev 0.97
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

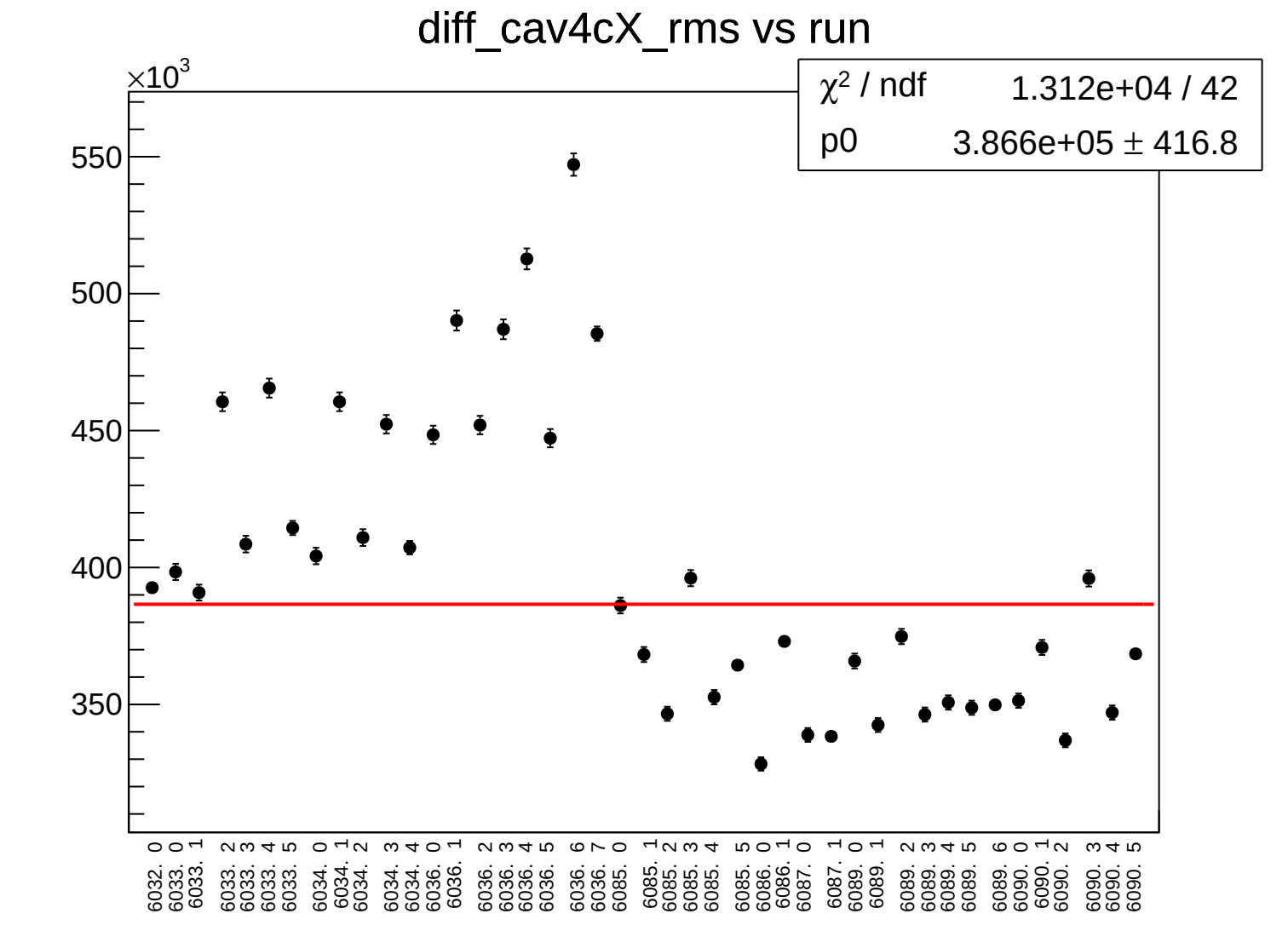

diff_cav4bX_rms vs run
×10^3
χ² / ndf 4958 / 35
p0 8.246e+05 ± 967.8
1000
950
900
850
800
750
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 5
6034. 0
6034. 2
6034. 3
6034. 4
6036. 0
6036. 2
6036. 5
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

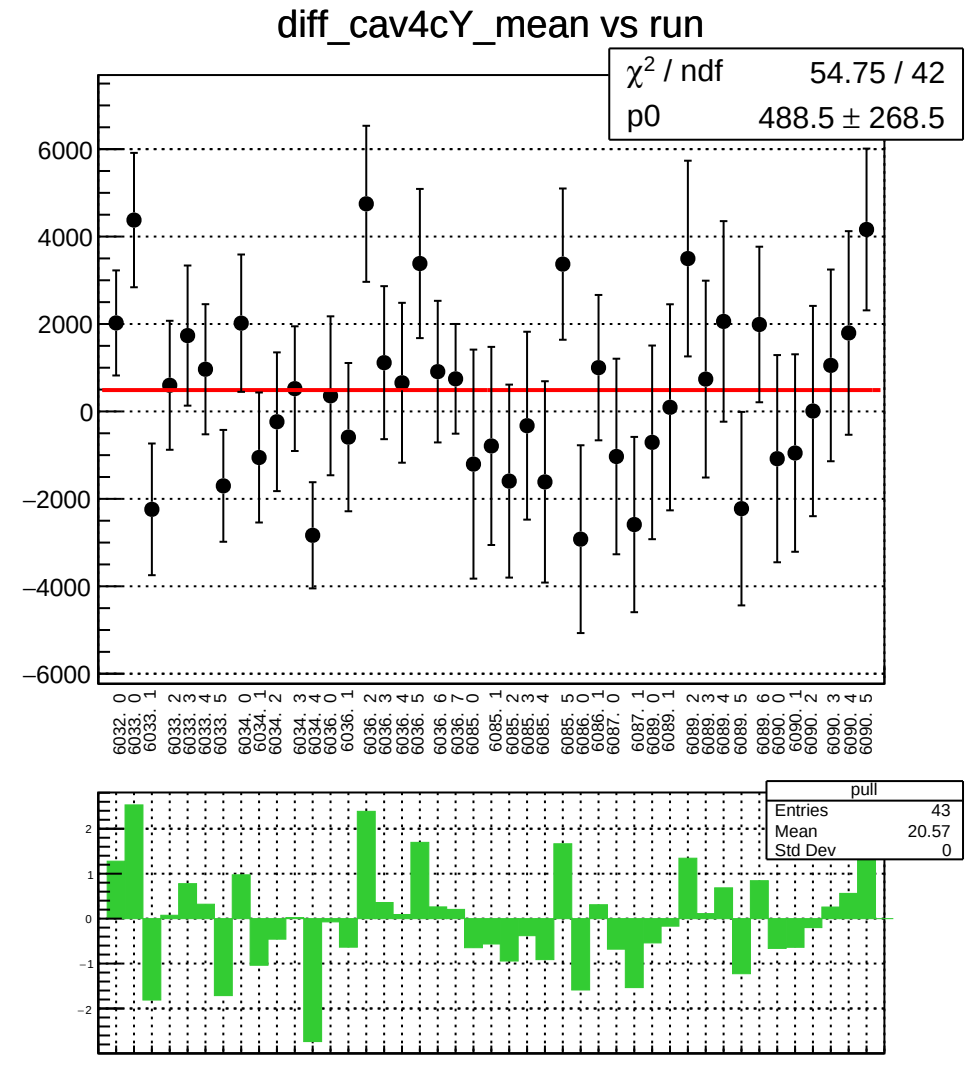

diff_cav4bY_mean vs run
χ² / ndf 53.9 / 42
p0 899.5 ± 527.9
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.98
Std Dev 0
2
1
0
−1
−2

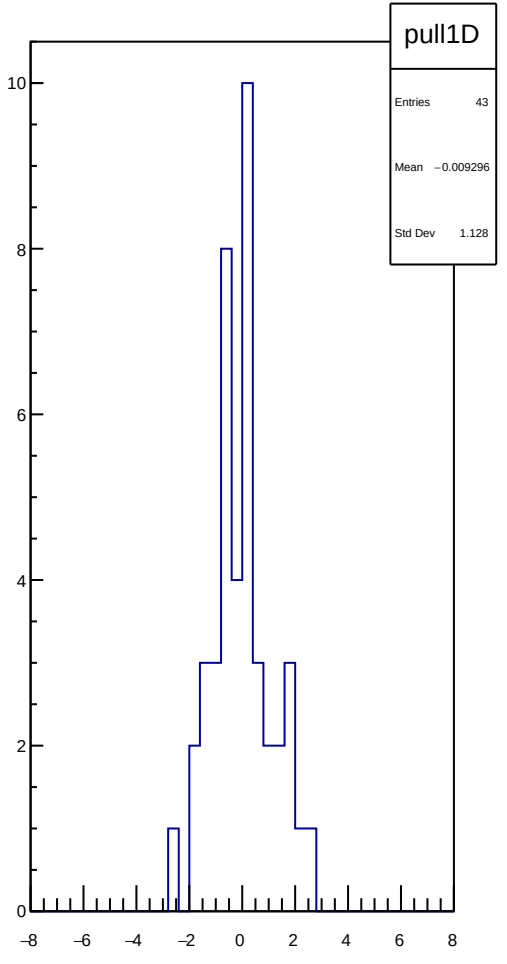

pull1D
Entries 43
Mean −0.008323
Std Dev 1.12
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

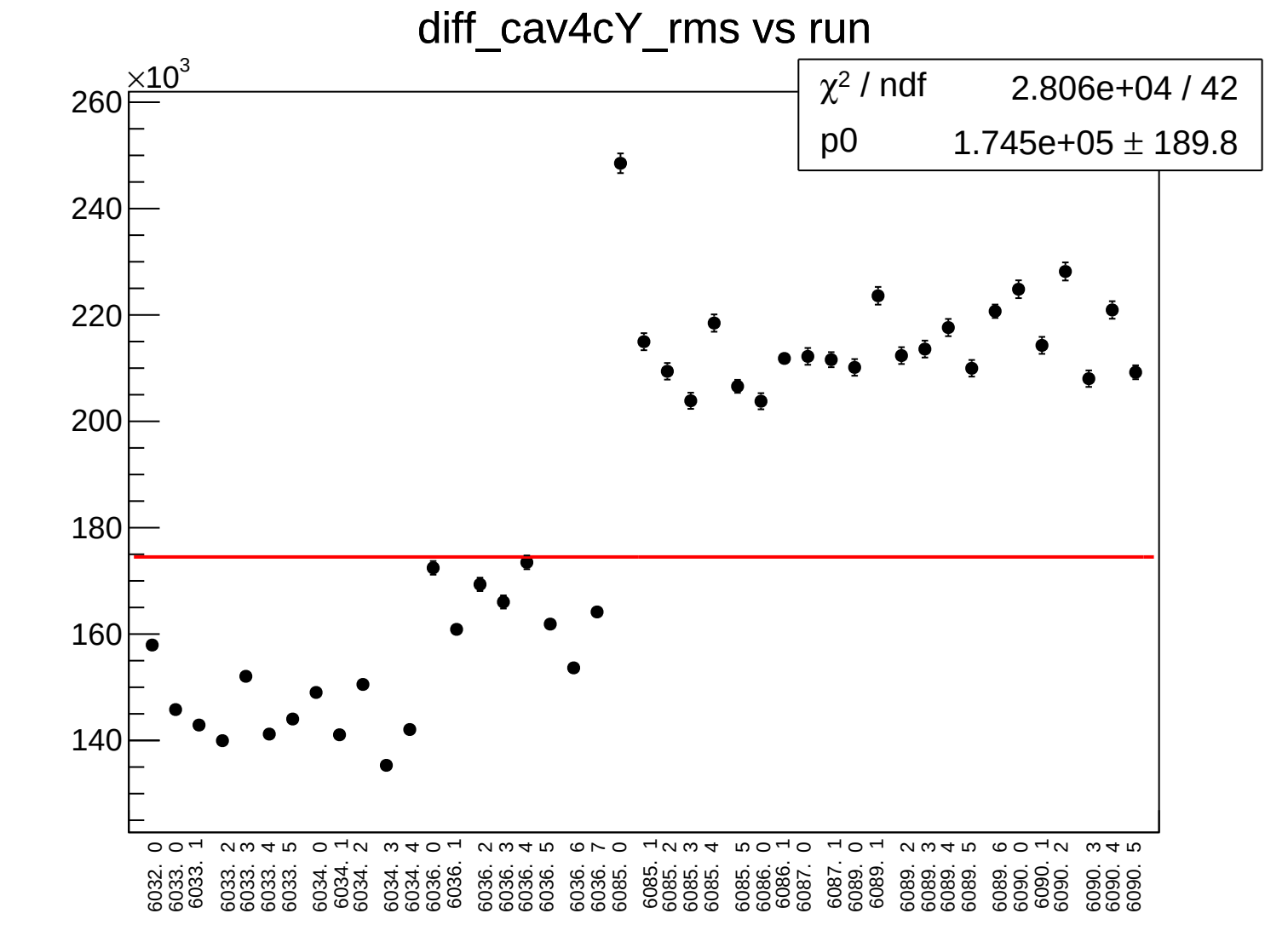

diff_cav4bY_rms vs run
×10^3
500
450
400
350
300
250
χ² / ndf 2.281e+04 / 42
p0 3.442e+05 ± 373.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

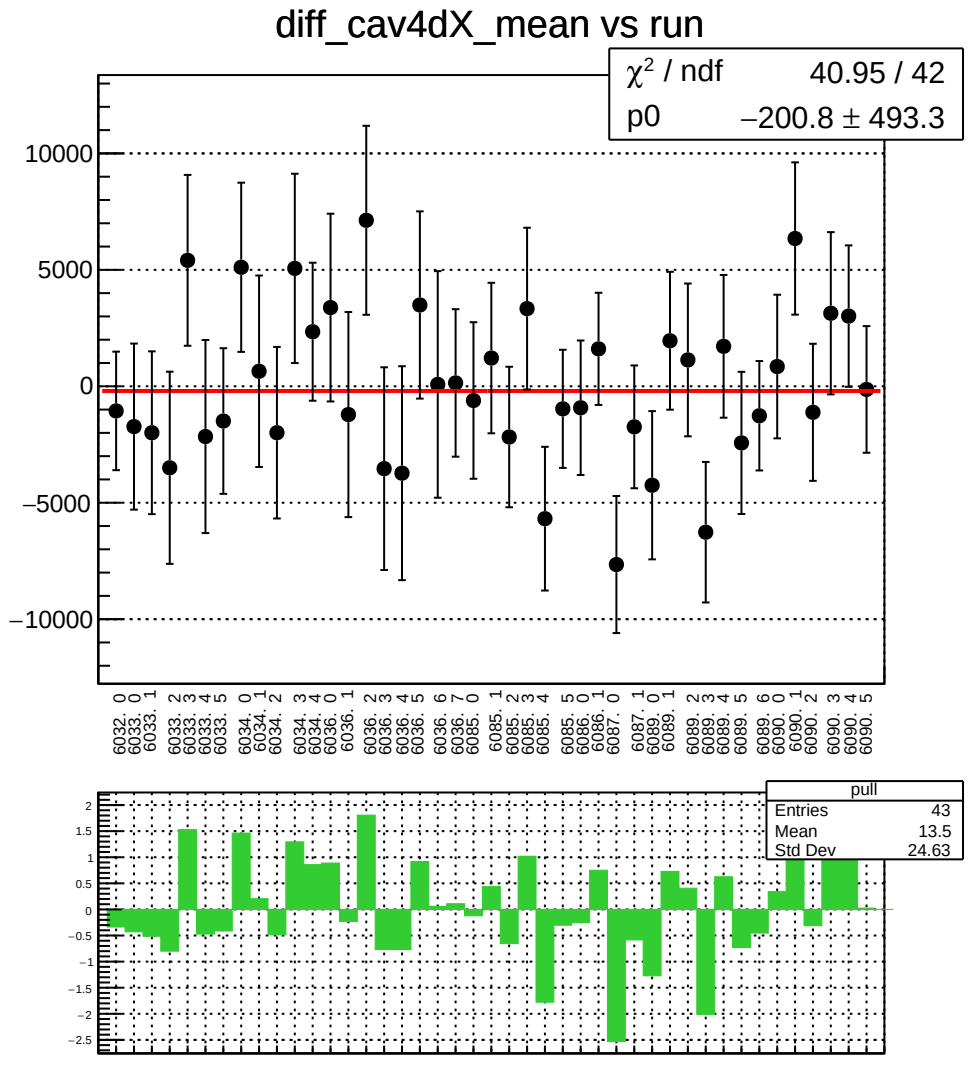

diff_cav4cX_mean vs run
χ² / ndf 40.89 / 42
p0 −245.1 ± 589.5
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.81
Std Dev 25.42
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02622
Std Dev 0.9748
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

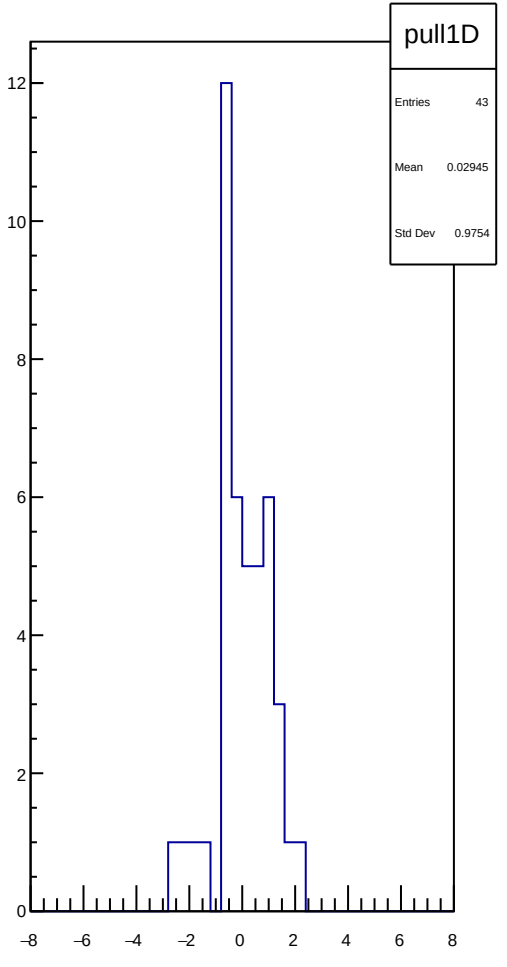

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.312e+04 / 42
p0 3.866e+05 ± 416.8
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

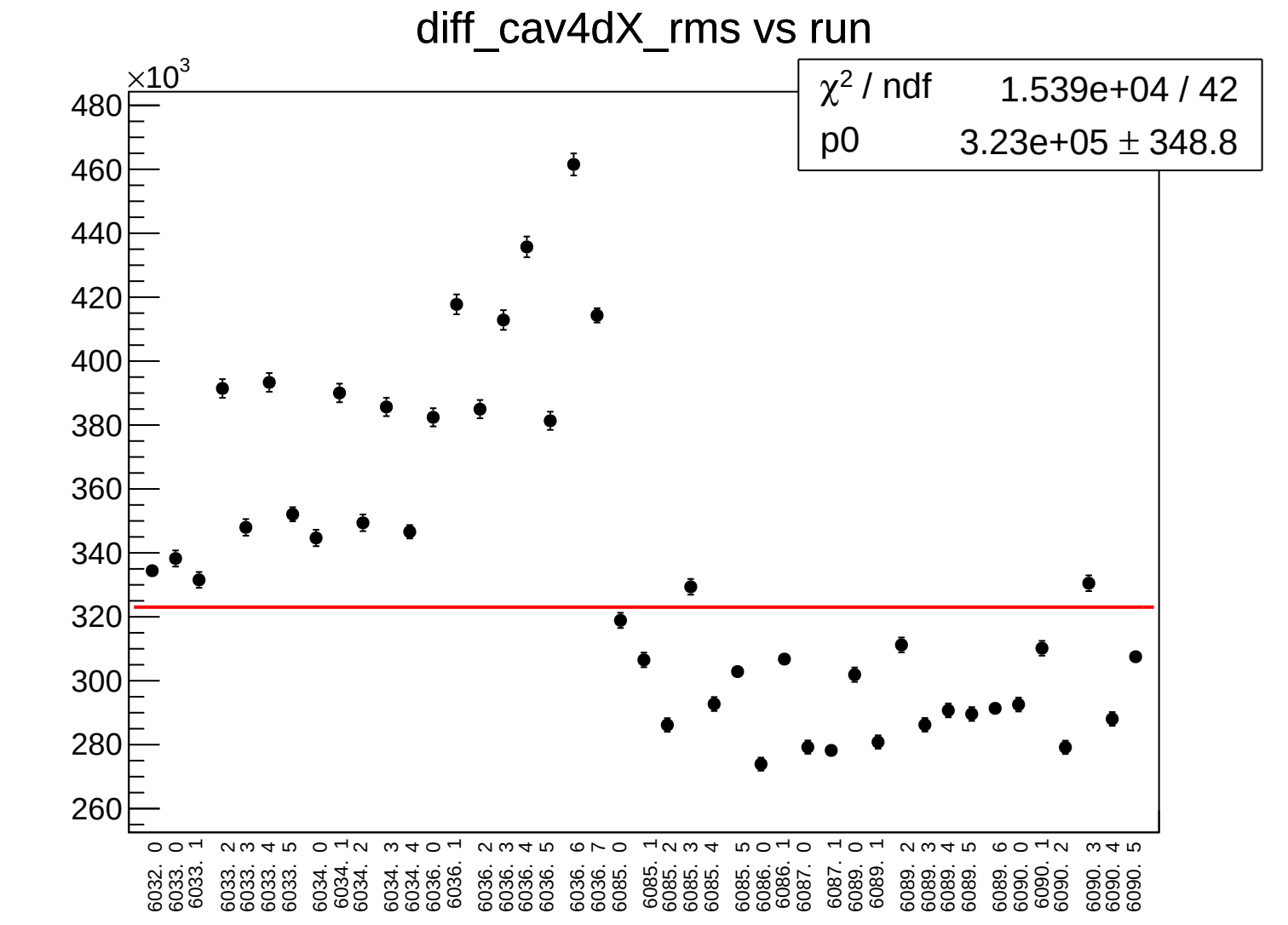

diff_cav4cY_mean vs run
χ² / ndf 54.75 / 42
p0 488.5 ± 268.5
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.57
Std Dev 0
2
1
0
−1
−2

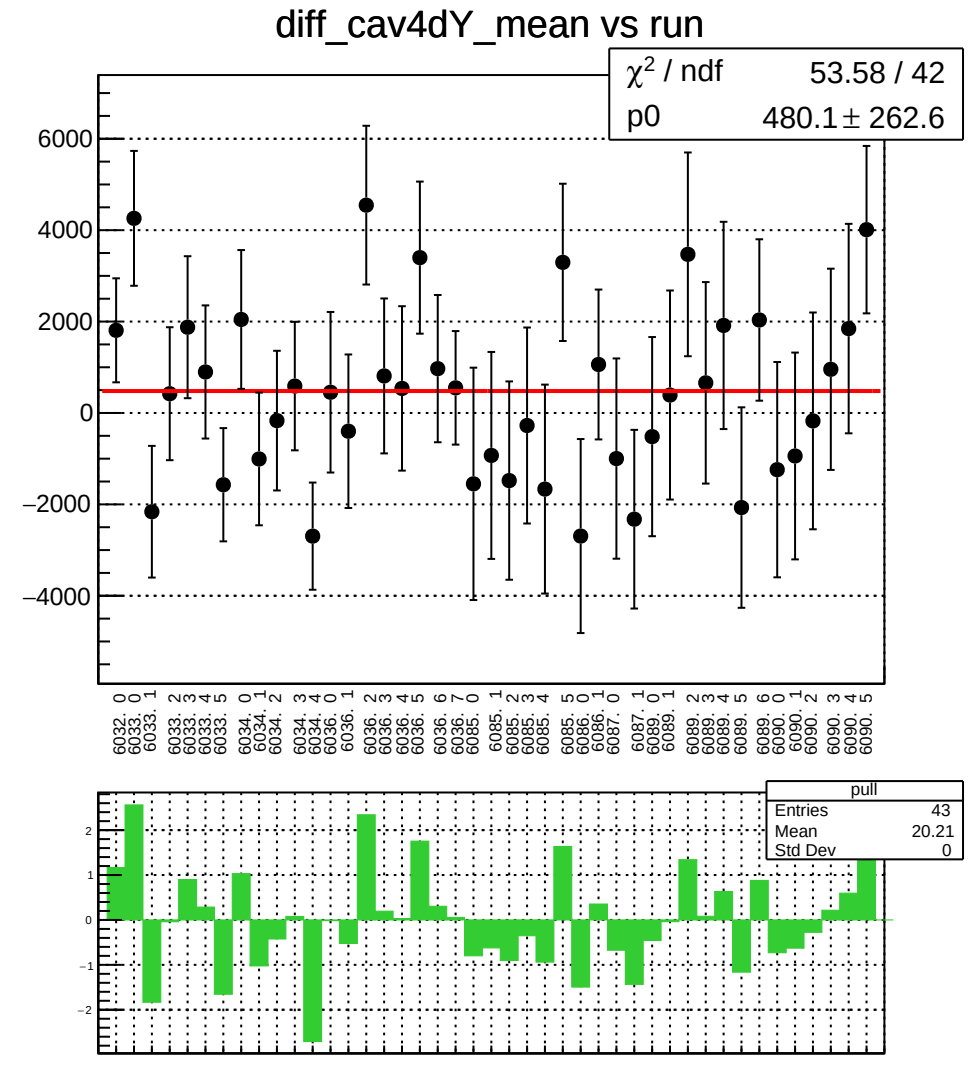

pull1D
Entries 43
Mean −0.009296
Std Dev 1.128
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

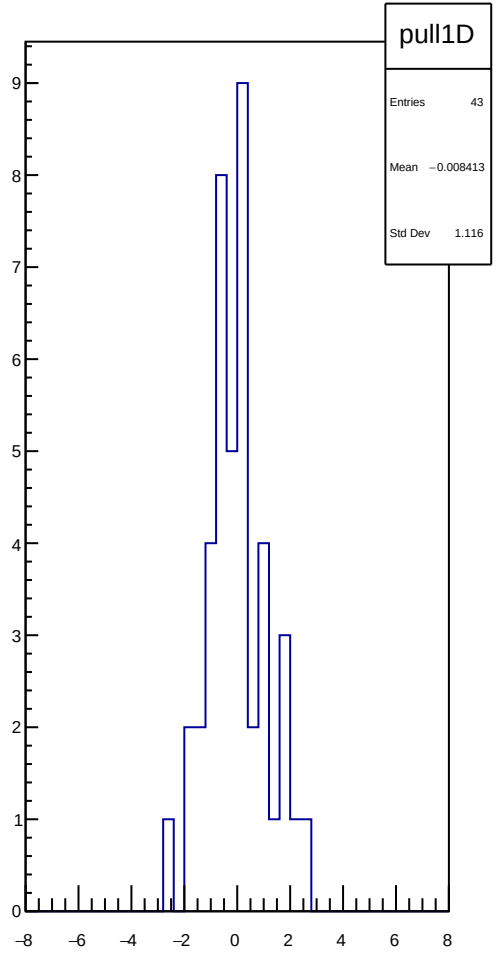

diff_cav4cY_rms vs run
×10^3
260
240
220
200
180
160
140
χ² / ndf 2.806e+04 / 42
p0 1.745e+05 ± 189.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

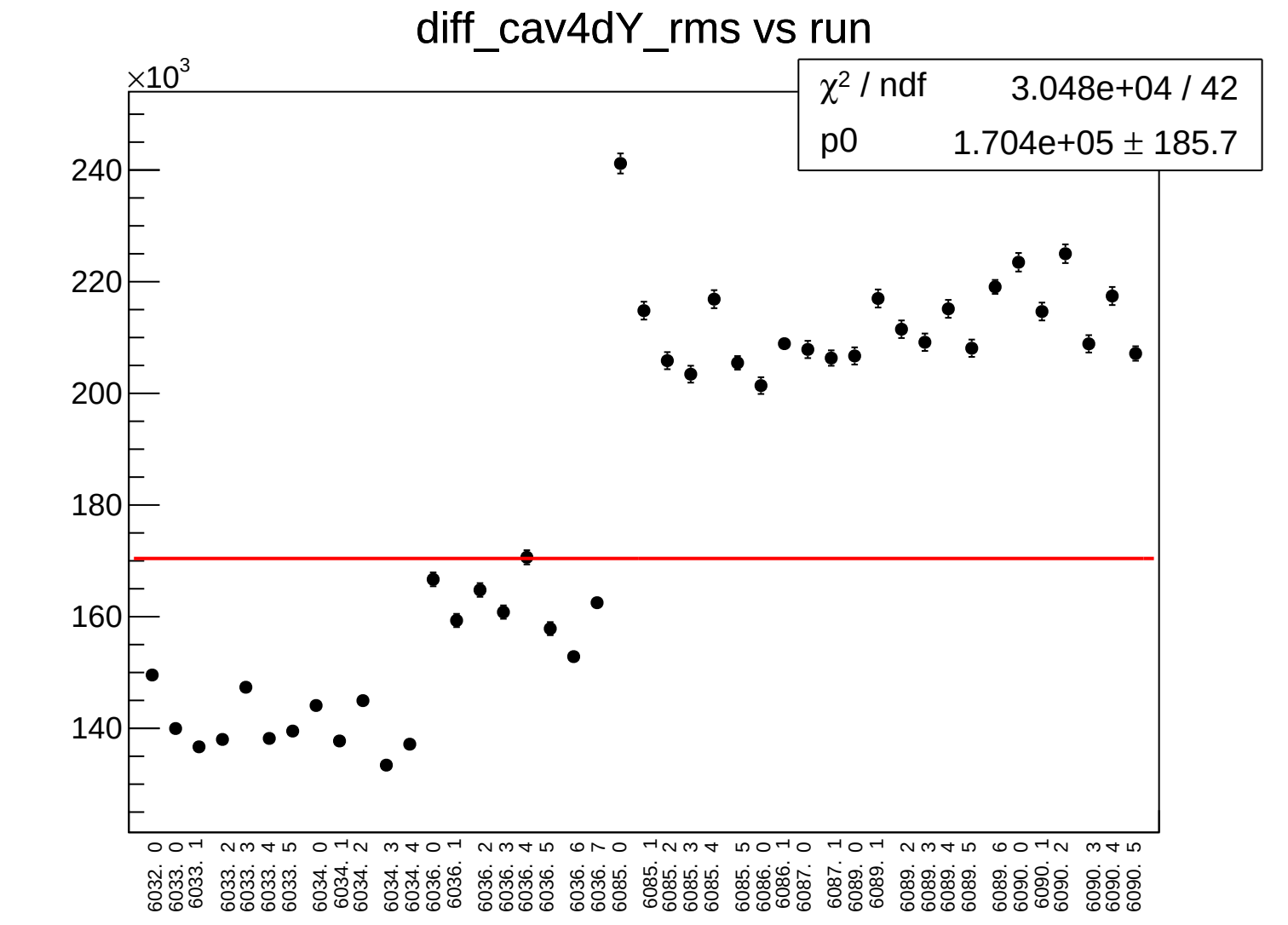

diff_cav4dX_mean vs run
χ² / ndf 40.95 / 42
p0 −200.8 ± 493.3
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.5
Std Dev 24.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

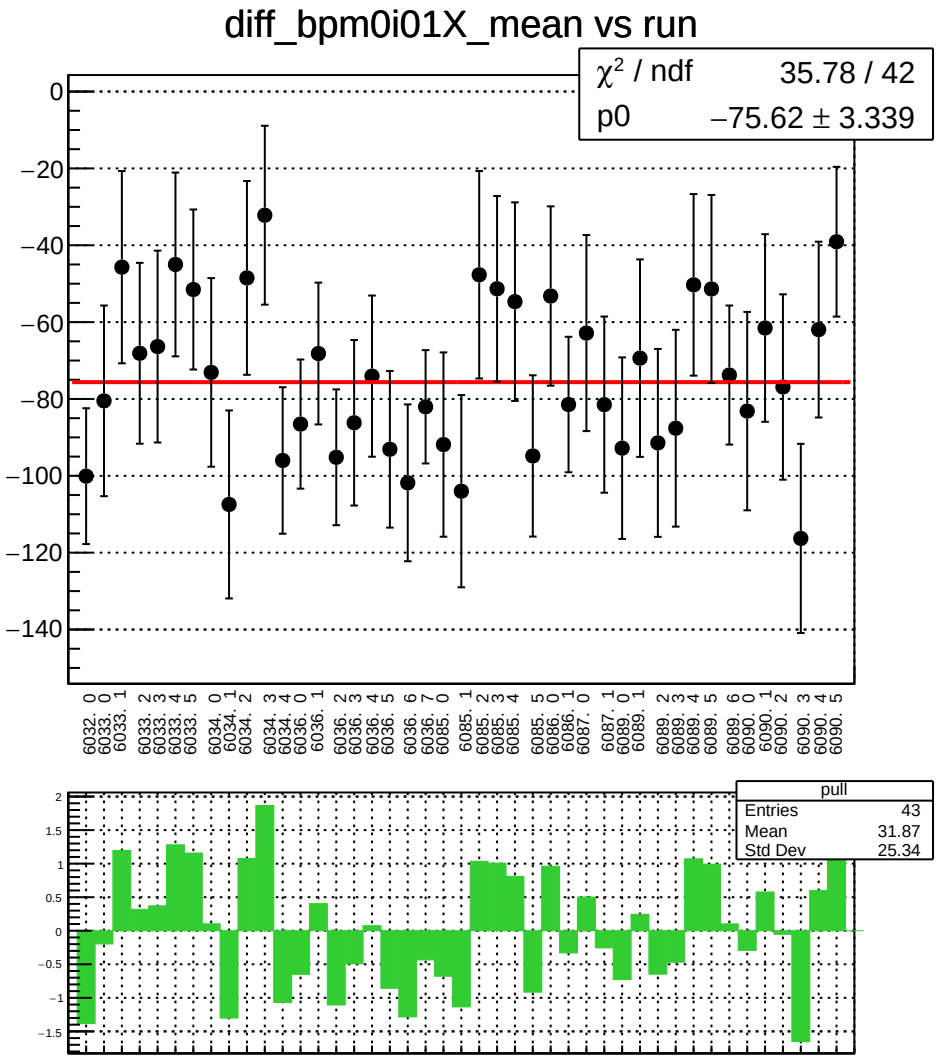

pull1D
Entries 43
Mean 0.02945
Std Dev 0.9754
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

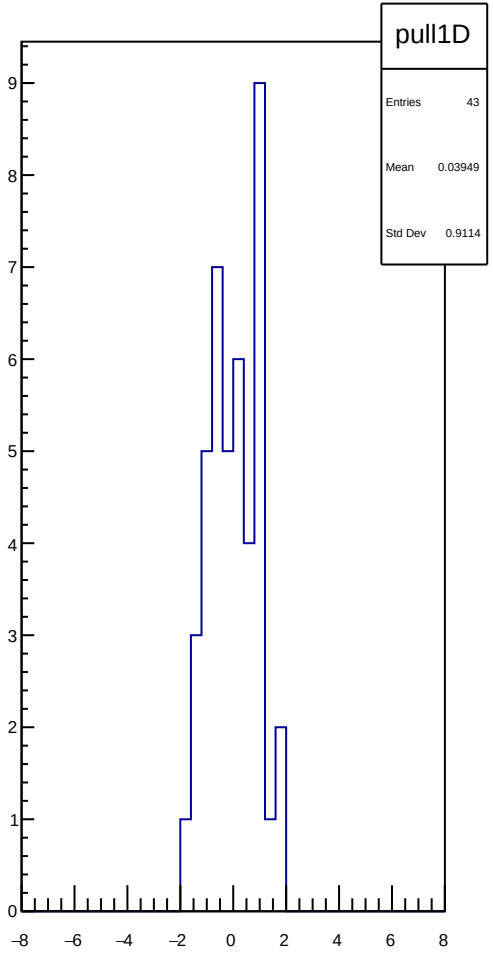

diff_cav4dX_rms vs run
×10^3
480
460
440
420
400
380
360
340
320
300
280
260
χ² / ndf 1.539e+04 / 42
p0 3.23e+05 ± 348.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

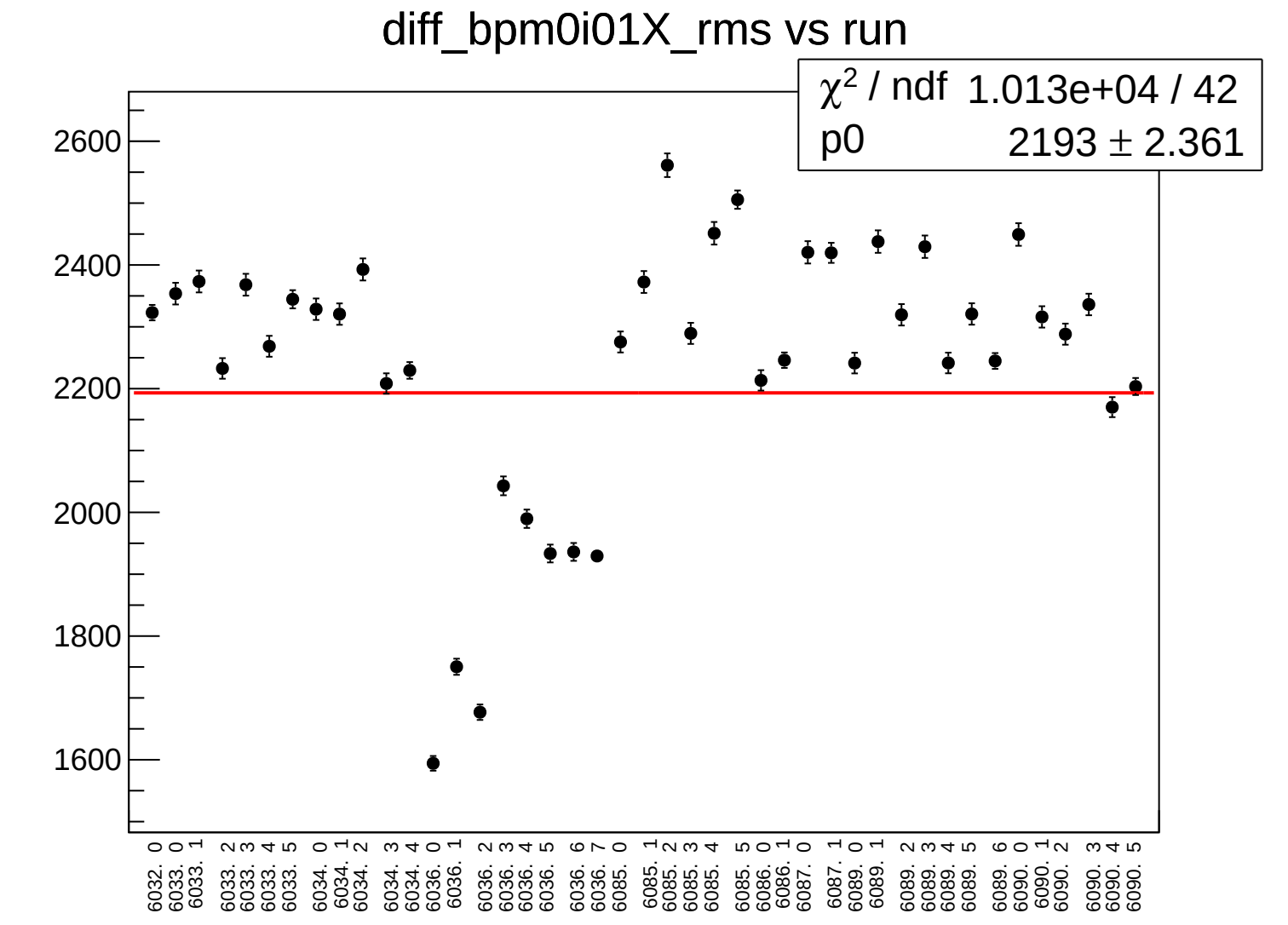

diff_cav4dY_mean vs run
χ² / ndf 53.58 / 42
p0 480.1 ± 262.6
6000
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.21
Std Dev 0
2
1
0
−1
−2

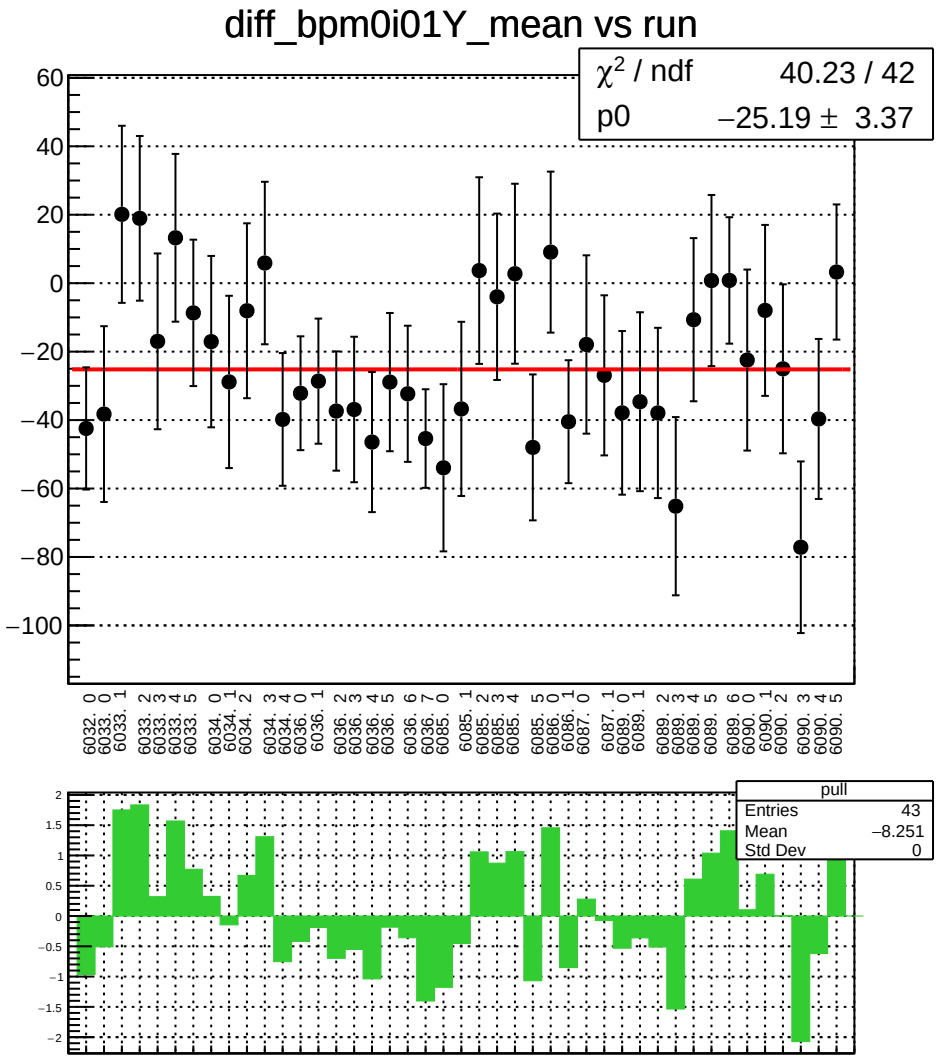

pull1D
Entries 43
Mean −0.008413
Std Dev 1.116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

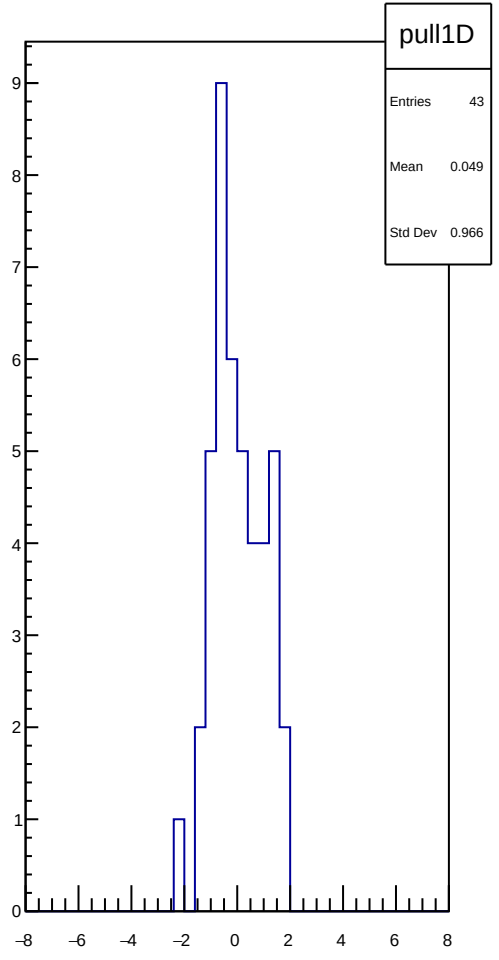

diff_cav4dY_rms vs run
×10^3
χ² / ndf 3.048e+04 / 42
p0 1.704e+05 ± 185.7
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

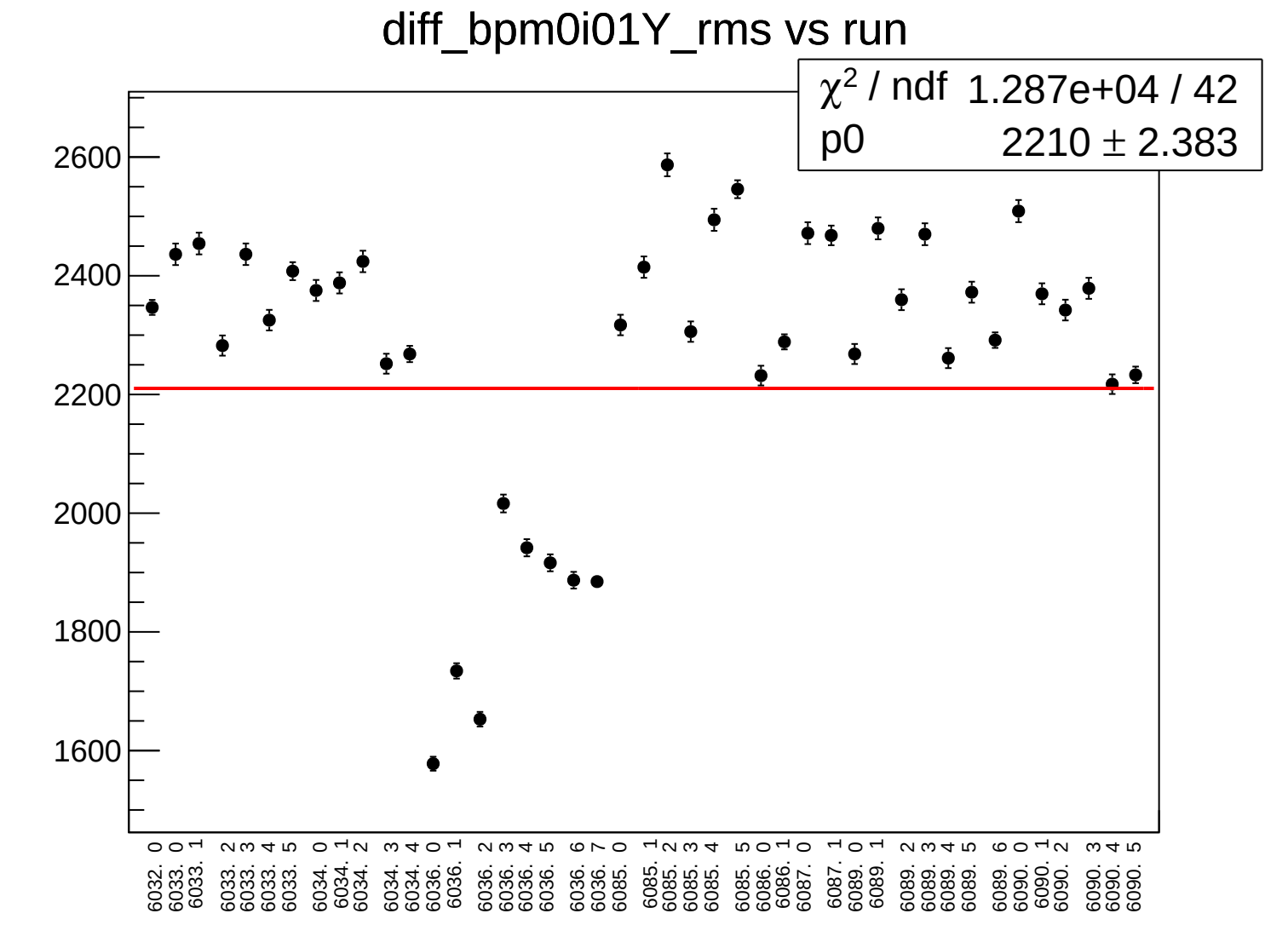

diff_bpm0i01X_mean vs run
χ² / ndf 35.78 / 42
p0 −75.62 ± 3.339
0
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.87
Std Dev 25.34
2
1.5
1
0.5
0
−0.5
−1
−1.5

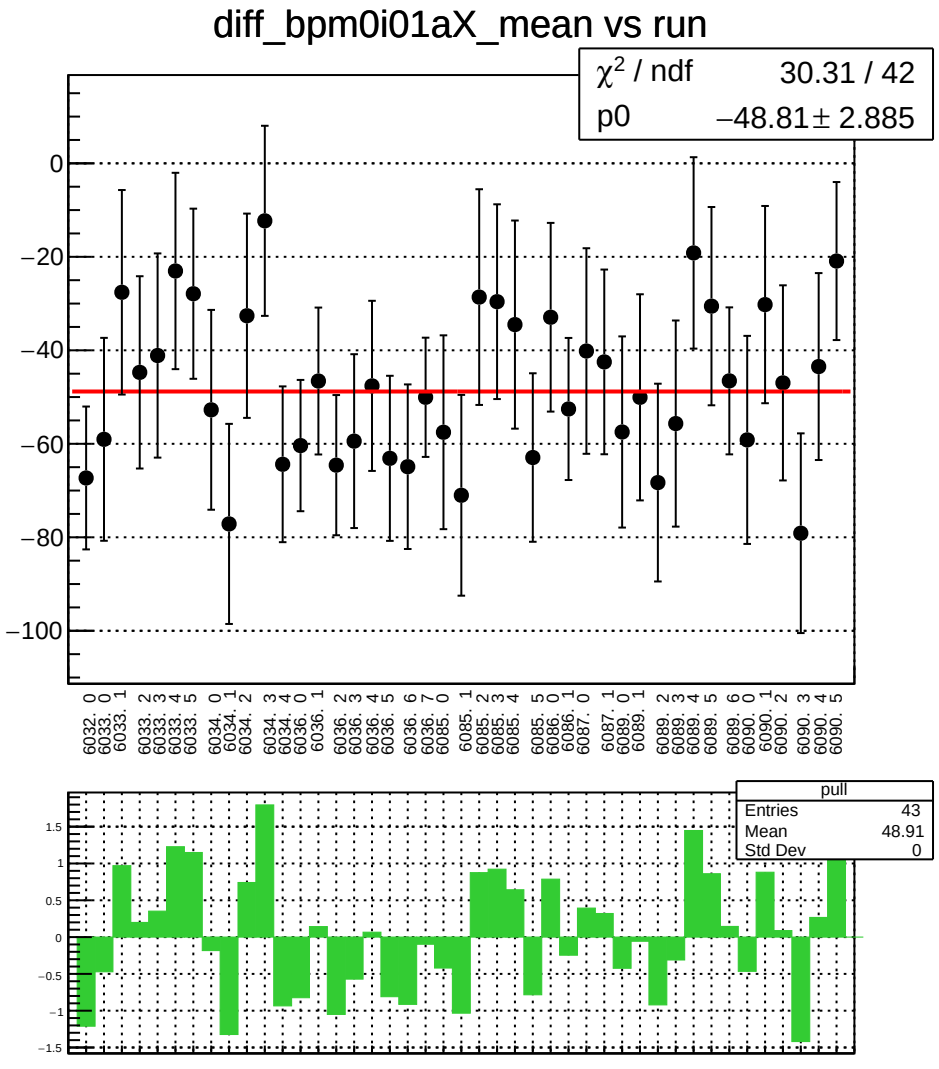

pull1D
Entries 43
Mean 0.03949
Std Dev 0.9114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

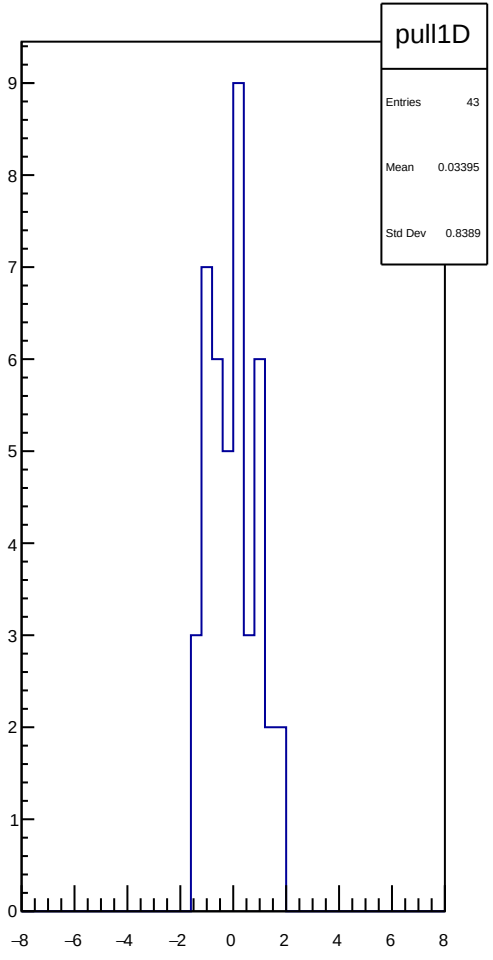

diff_bpm0i01X_rms vs run
χ² / ndf 1.013e+04 / 42
p0 2193 ± 2.361
2600
2400
2200
2000
1800
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

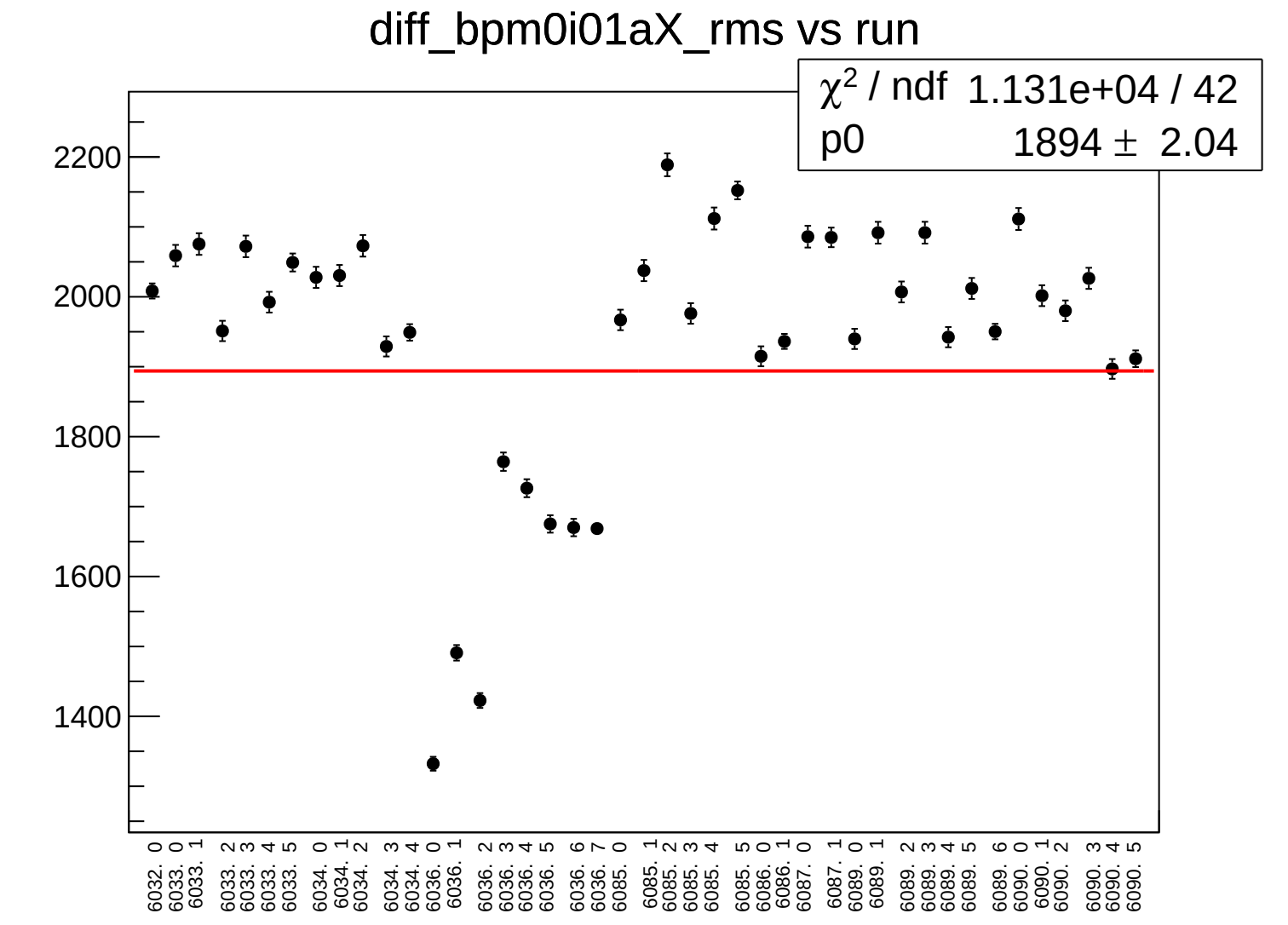

diff_bpm0i01Y_mean vs run
χ² / ndf 40.23 / 42
p0 −25.19 ± 3.37
pull
Entries 43
Mean −8.251
Std Dev 0

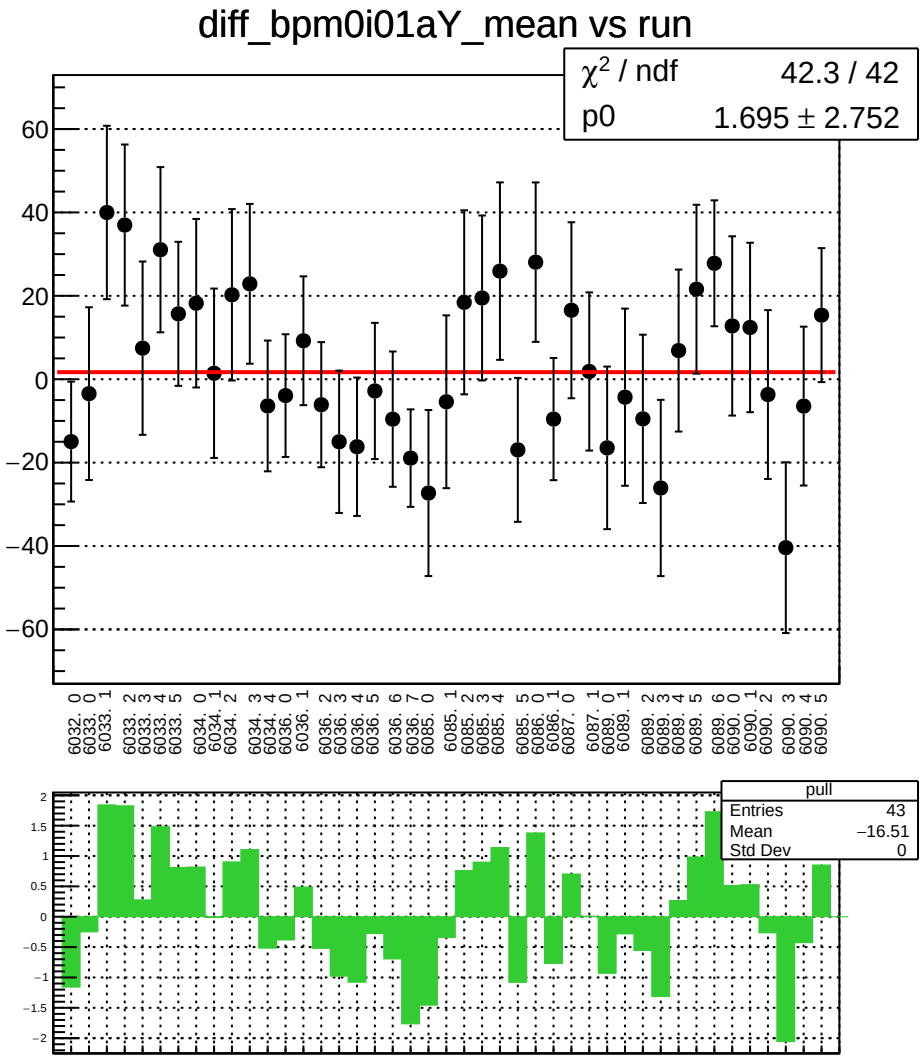

pull1D
Entries 43
Mean 0.049
Std Dev 0.966

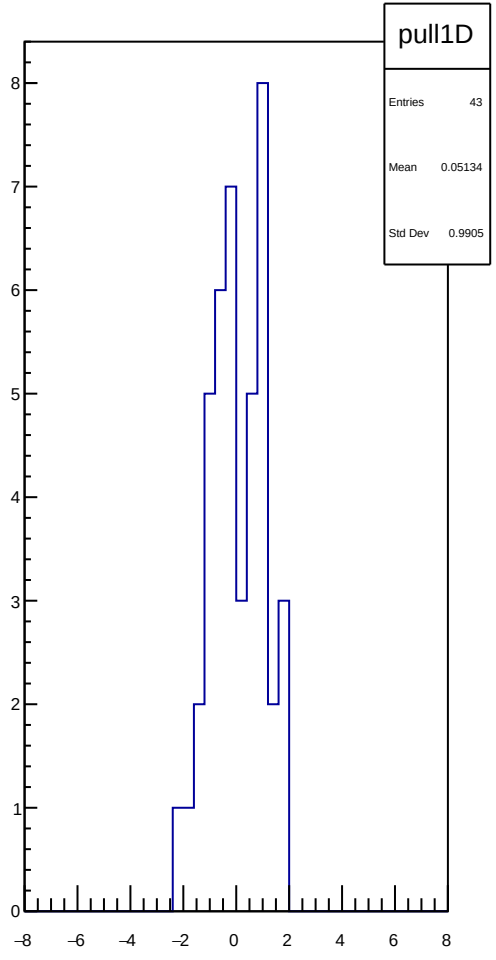

diff_bpm0i01Y_rms vs run
χ² / ndf 1.287e+04 / 42
p0 2210 ± 2.383
2600
2400
2200
2000
1800
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

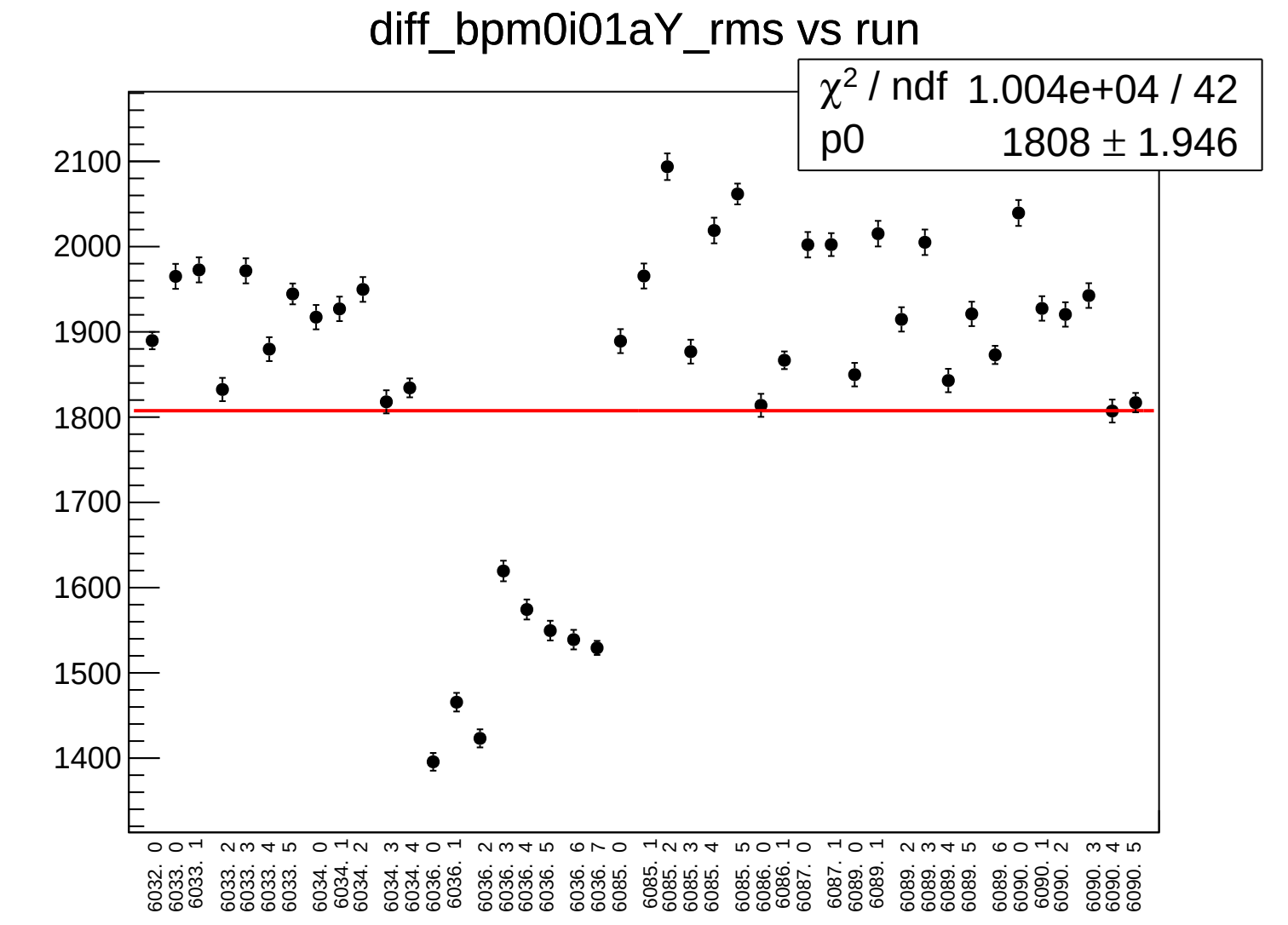

diff_bpm0i01aX_mean vs run
χ² / ndf 30.31 / 42
p0 −48.81 ± 2.885
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 48.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

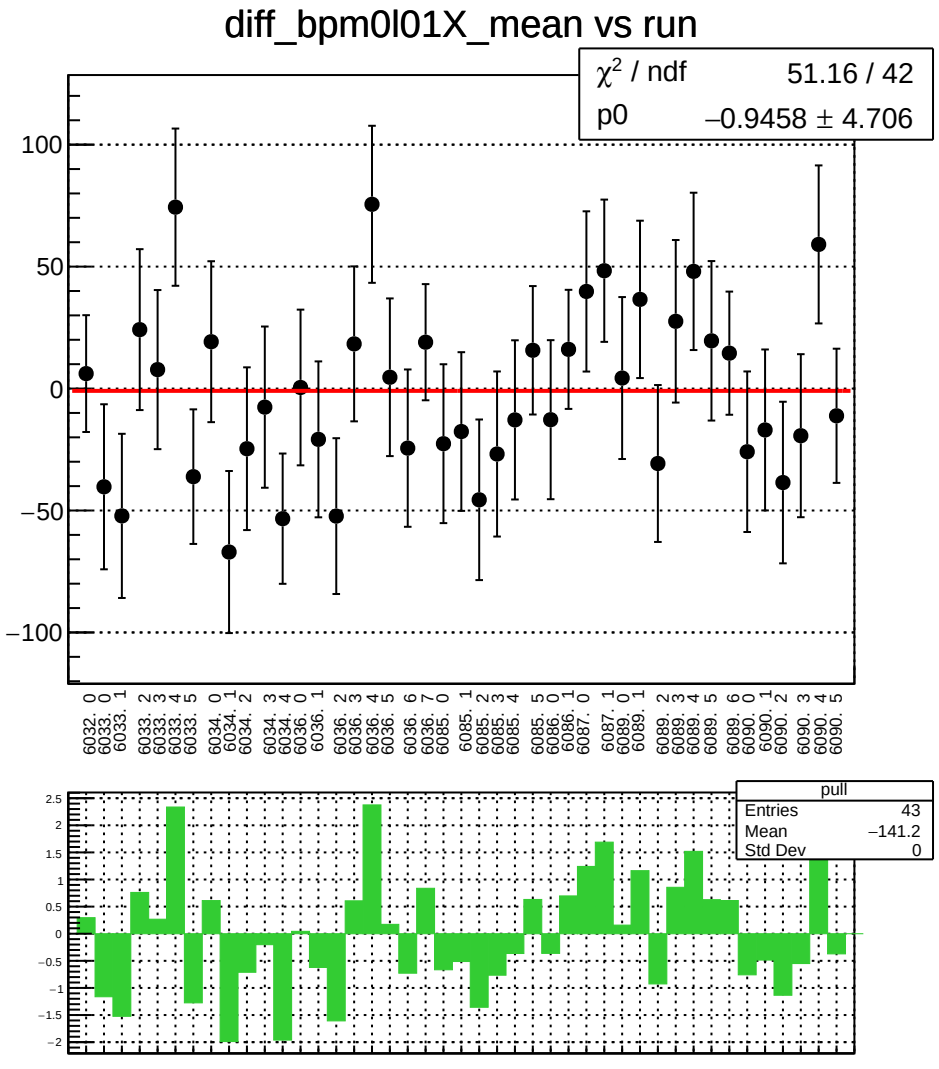

pull1D
Entries 43
Mean 0.03395
Std Dev 0.8389
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

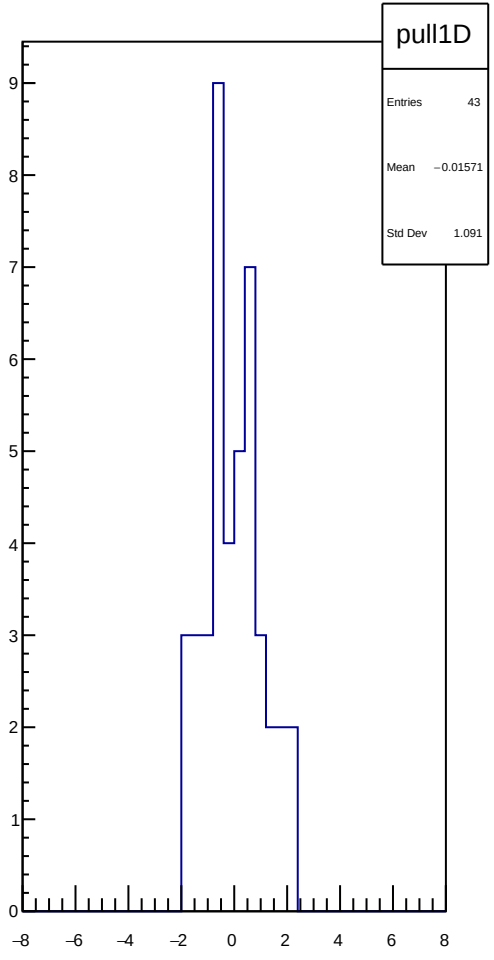

diff_bpm0i01aX_rms vs run
χ² / ndf 1.131e+04 / 42
p0 1894 ± 2.04
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

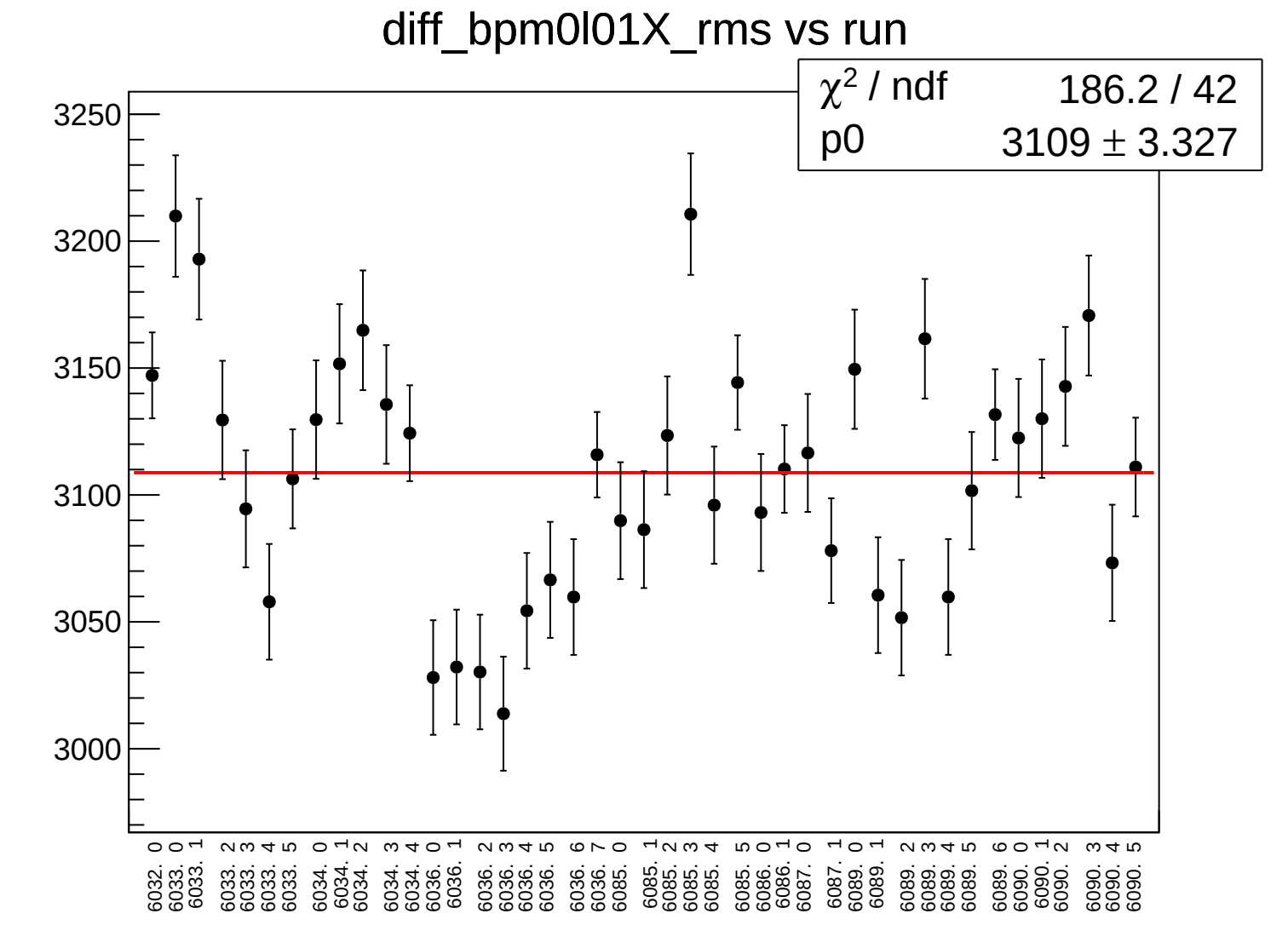

diff_bpm0i01aY_mean vs run
χ² / ndf 42.3 / 42
p0 1.695 ± 2.752
60
40
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −16.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

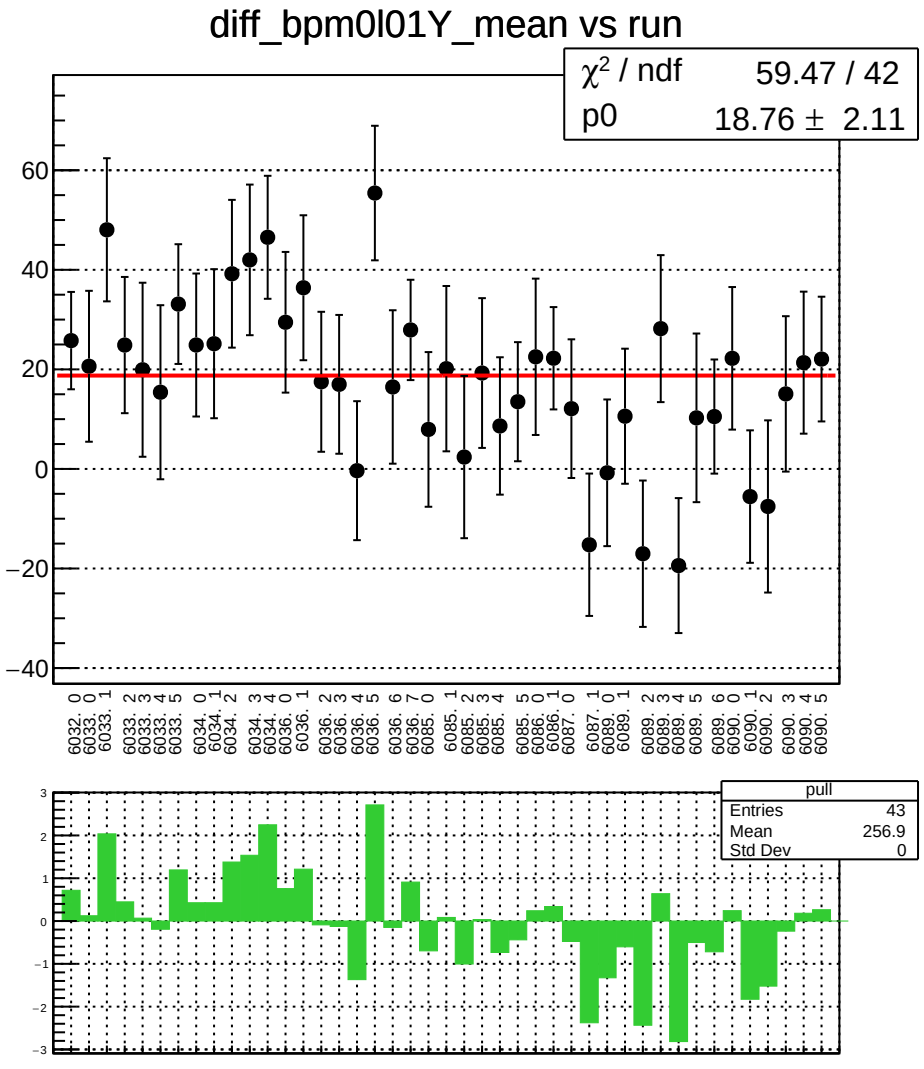

pull1D
Entries 43
Mean 0.05134
Std Dev 0.9905
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

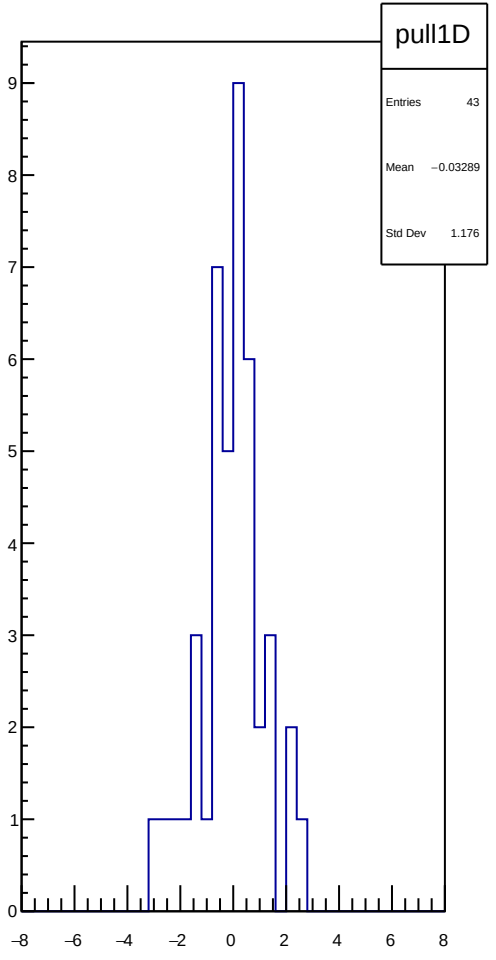

diff_bpm0i01aY_rms vs run
χ² / ndf 1.004e+04 / 42
p0 1808 ± 1.946
2100
2000
1900
1800
1700
1600
1500
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

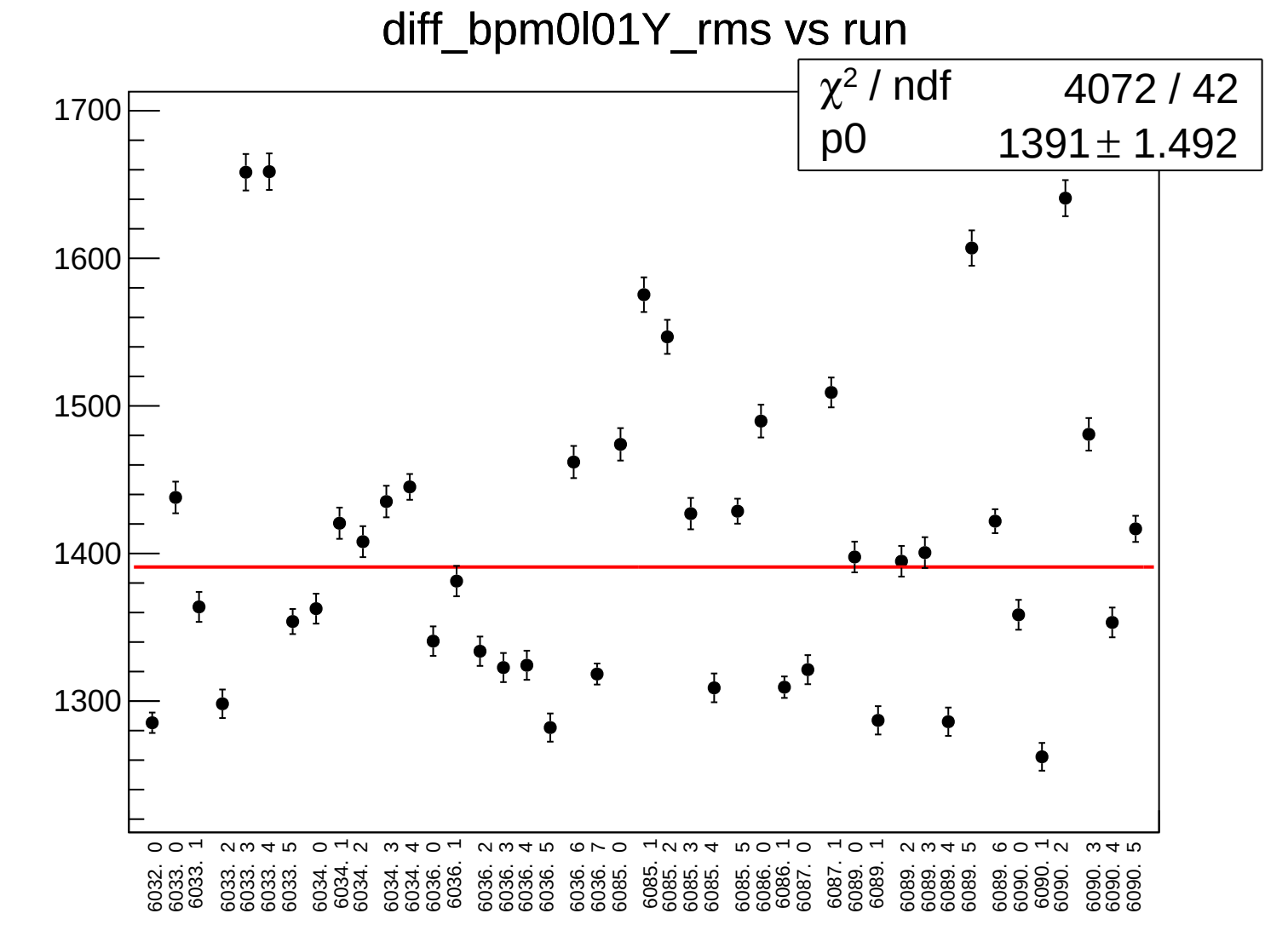

diff_bpm0l01X_mean vs run
χ² / ndf 51.16 / 42
p0 −0.9458 ± 4.706
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −141.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

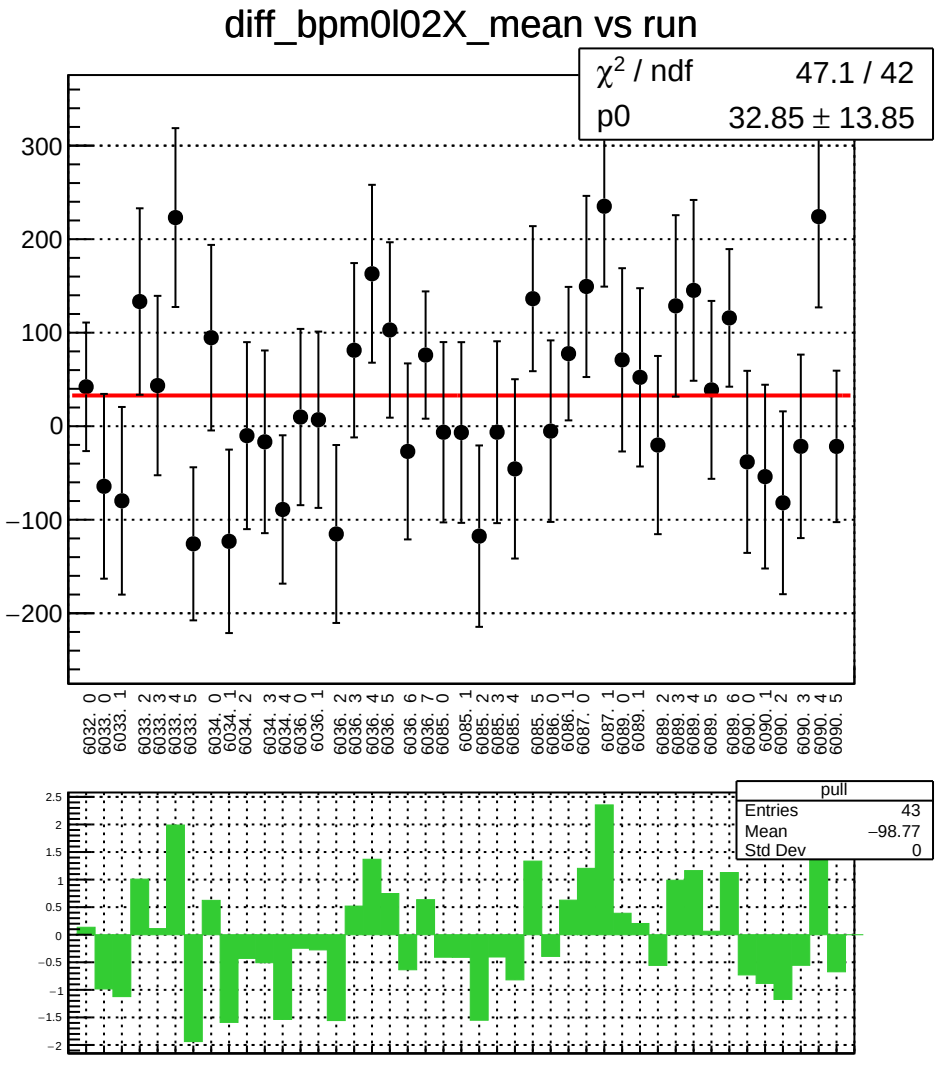

pull1D
Entries 43
Mean −0.01571
Std Dev 1.091
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

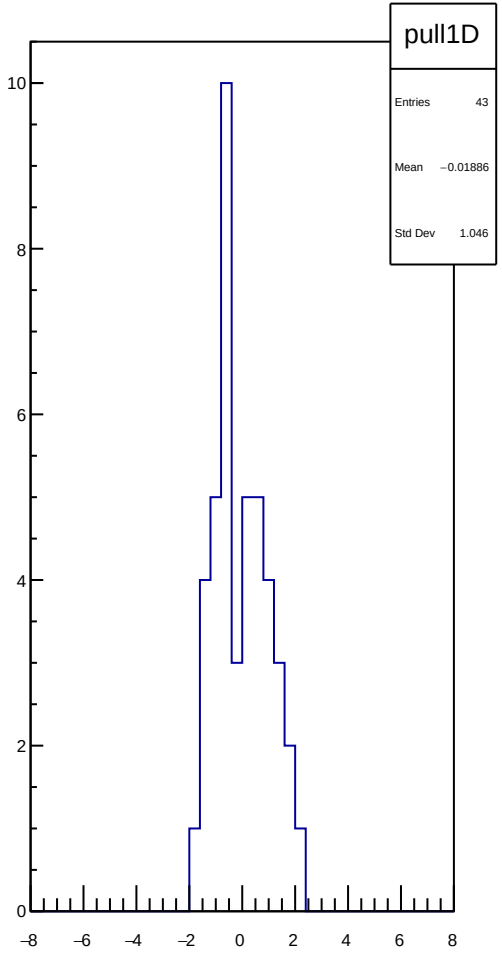

diff_bpm0l01X_rms vs run
χ² / ndf 186.2 / 42
p0 3109 ± 3.327
3250
3200
3150
3100
3050
3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

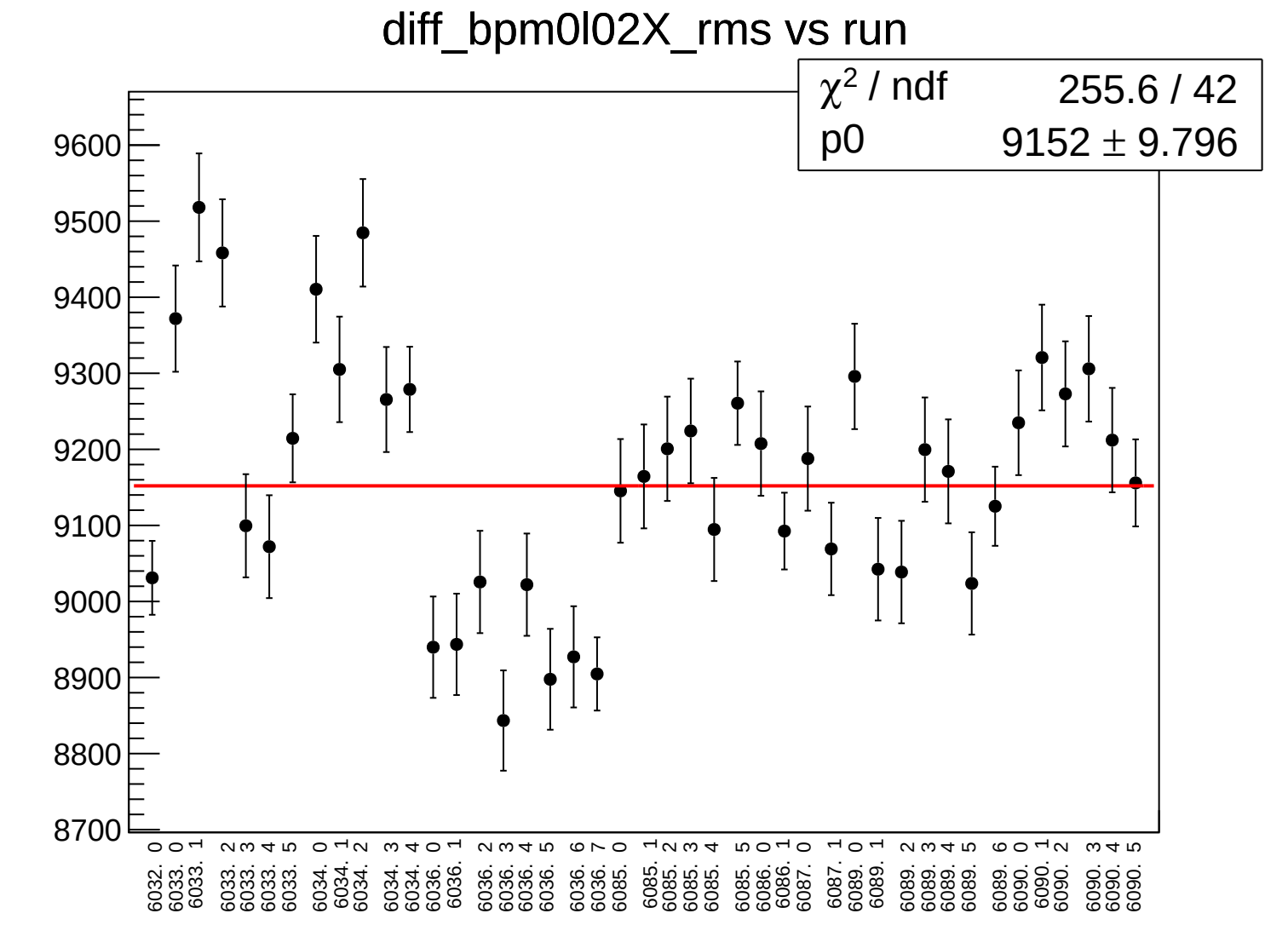

diff_bpm0l01Y_mean vs run
χ² / ndf 59.47 / 42
p0 18.76 ± 2.11
60
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 256.9
Std Dev 0
3
2
1
0
−1
−2
−3

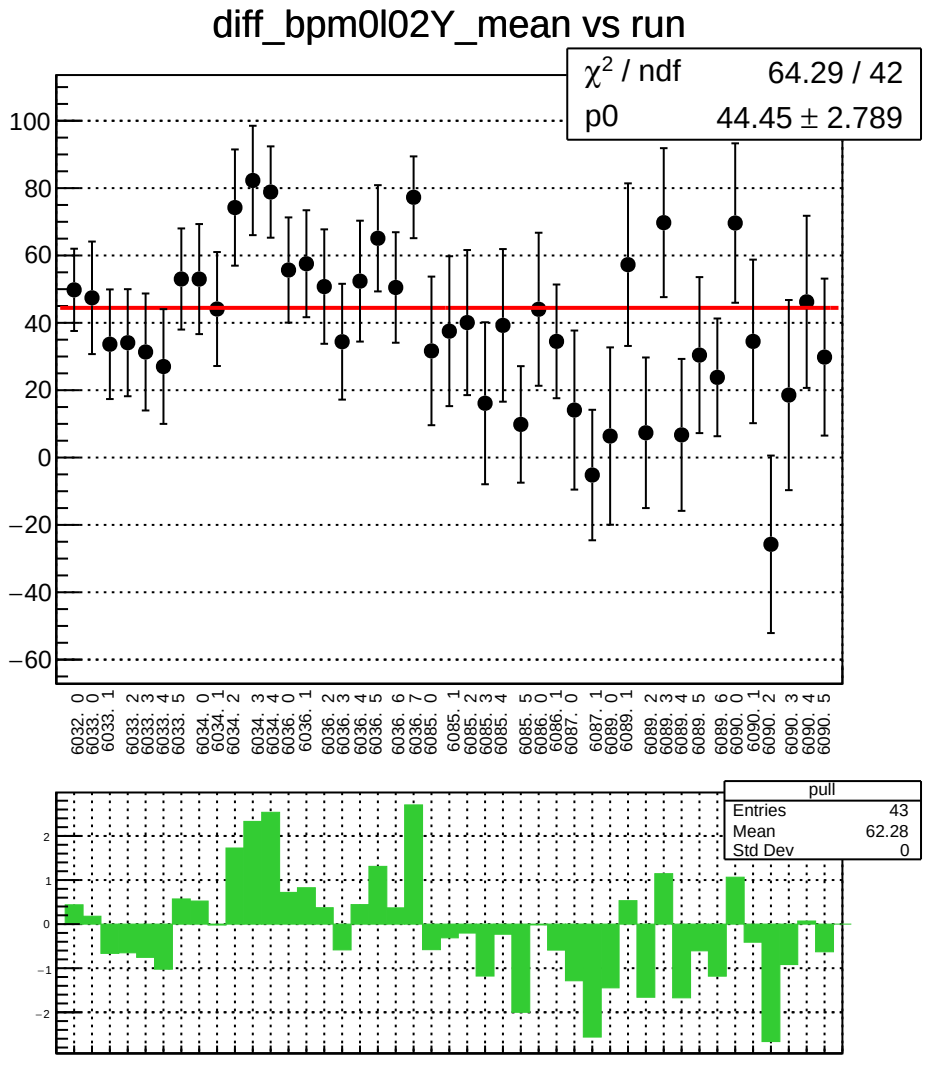

pull1D
Entries 43
Mean −0.03289
Std Dev 1.176
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

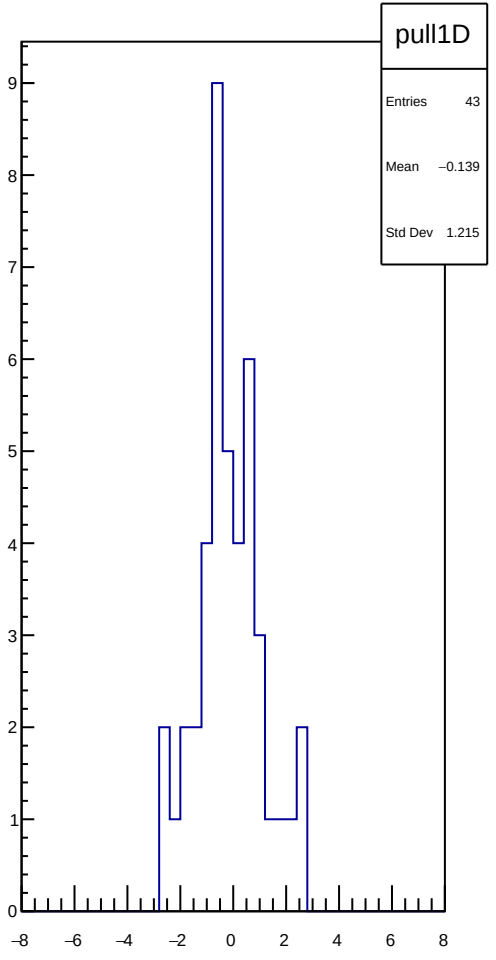

diff_bpm0l01Y_rms vs run
χ² / ndf 4072 / 42
p0 1391 ± 1.492
1700
1600
1500
1400
1300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

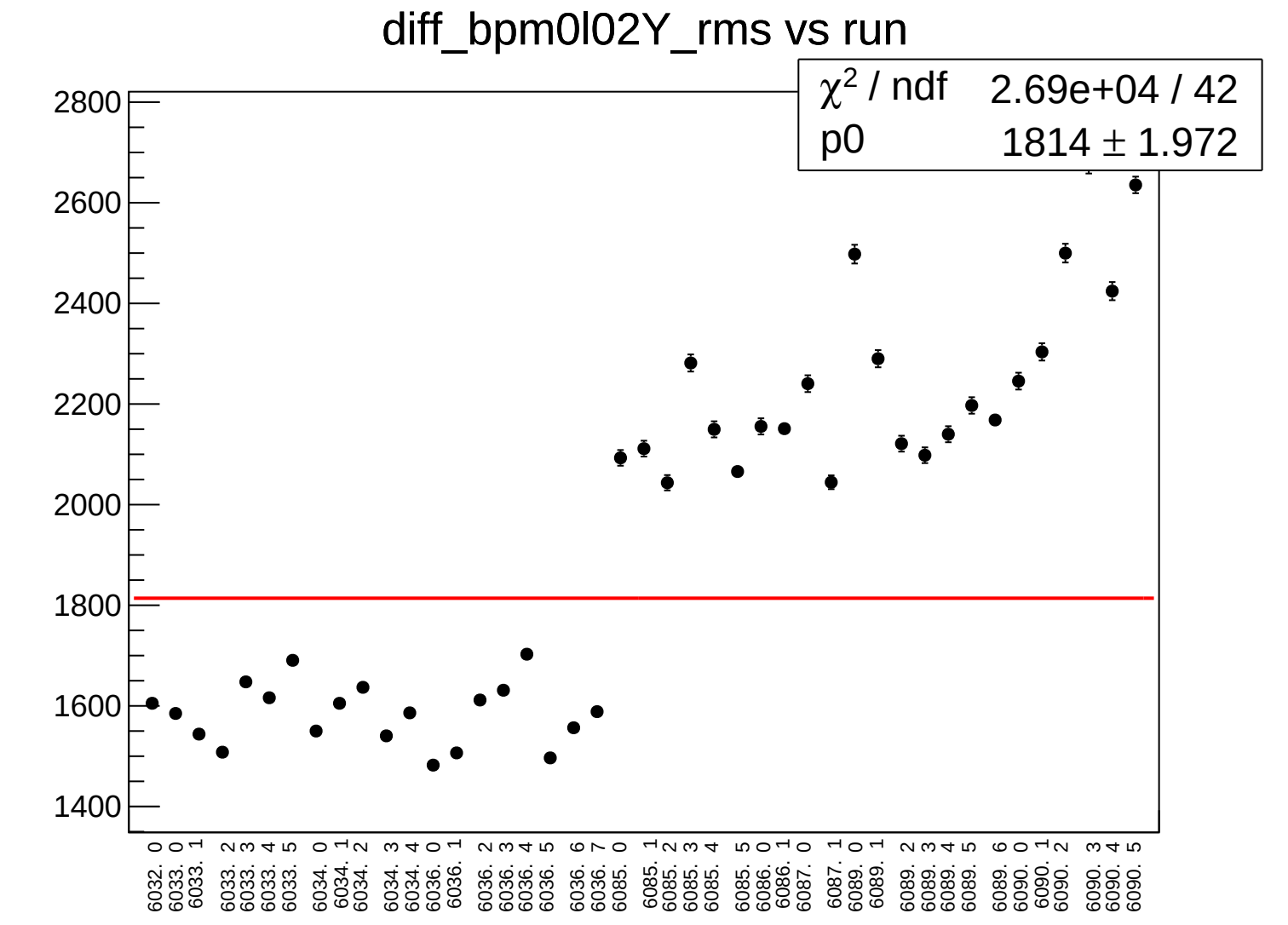

diff_bpm0l02X_mean vs run
χ² / ndf 47.1 / 42
p0 32.85 ± 13.85
300
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −98.77
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

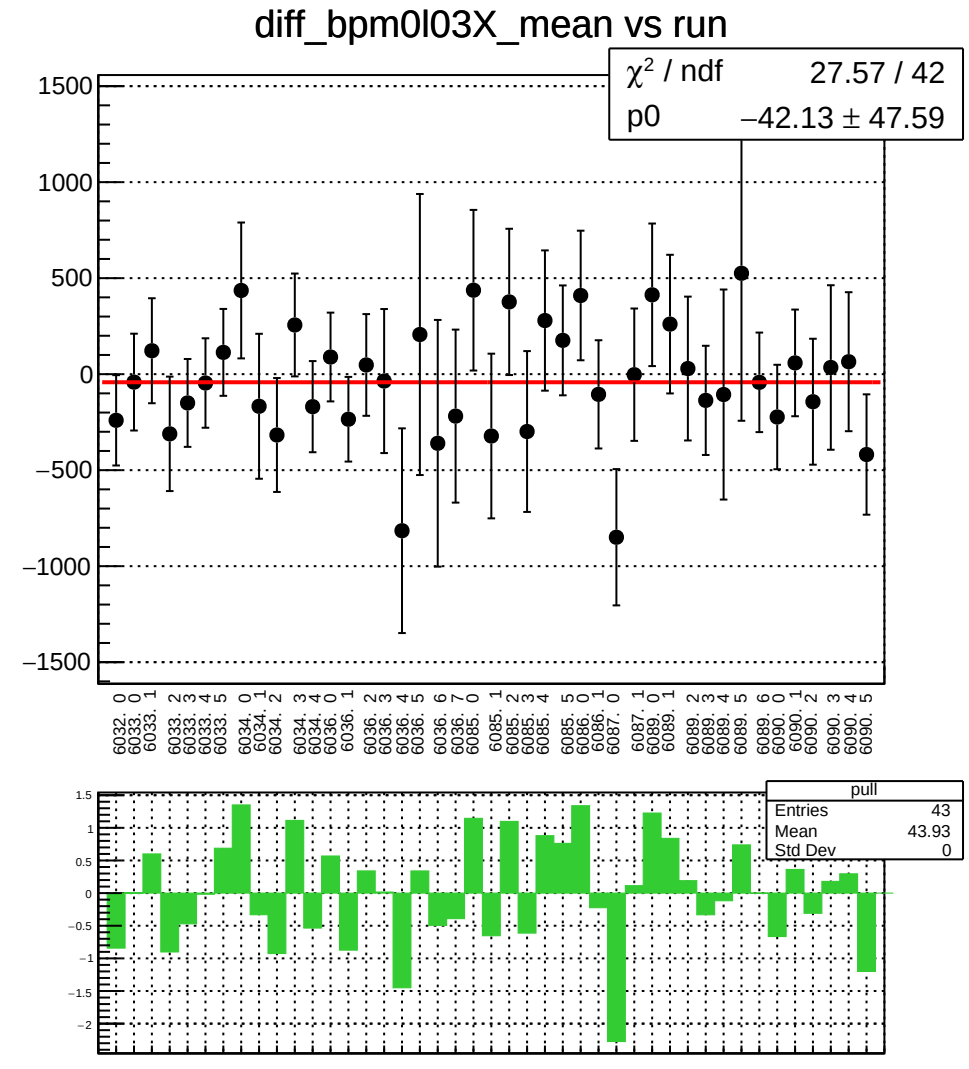

pull1D
Entries 43
Mean −0.01886
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

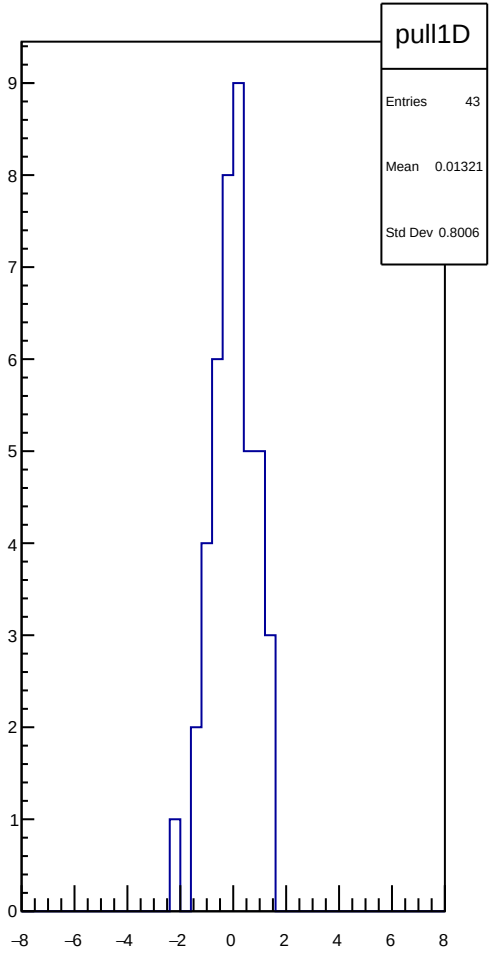

diff_bpm0l02X_rms vs run
χ² / ndf 255.6 / 42
p0 9152 ± 9.796
9600
9500
9400
9300
9200
9100
9000
8900
8800
8700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

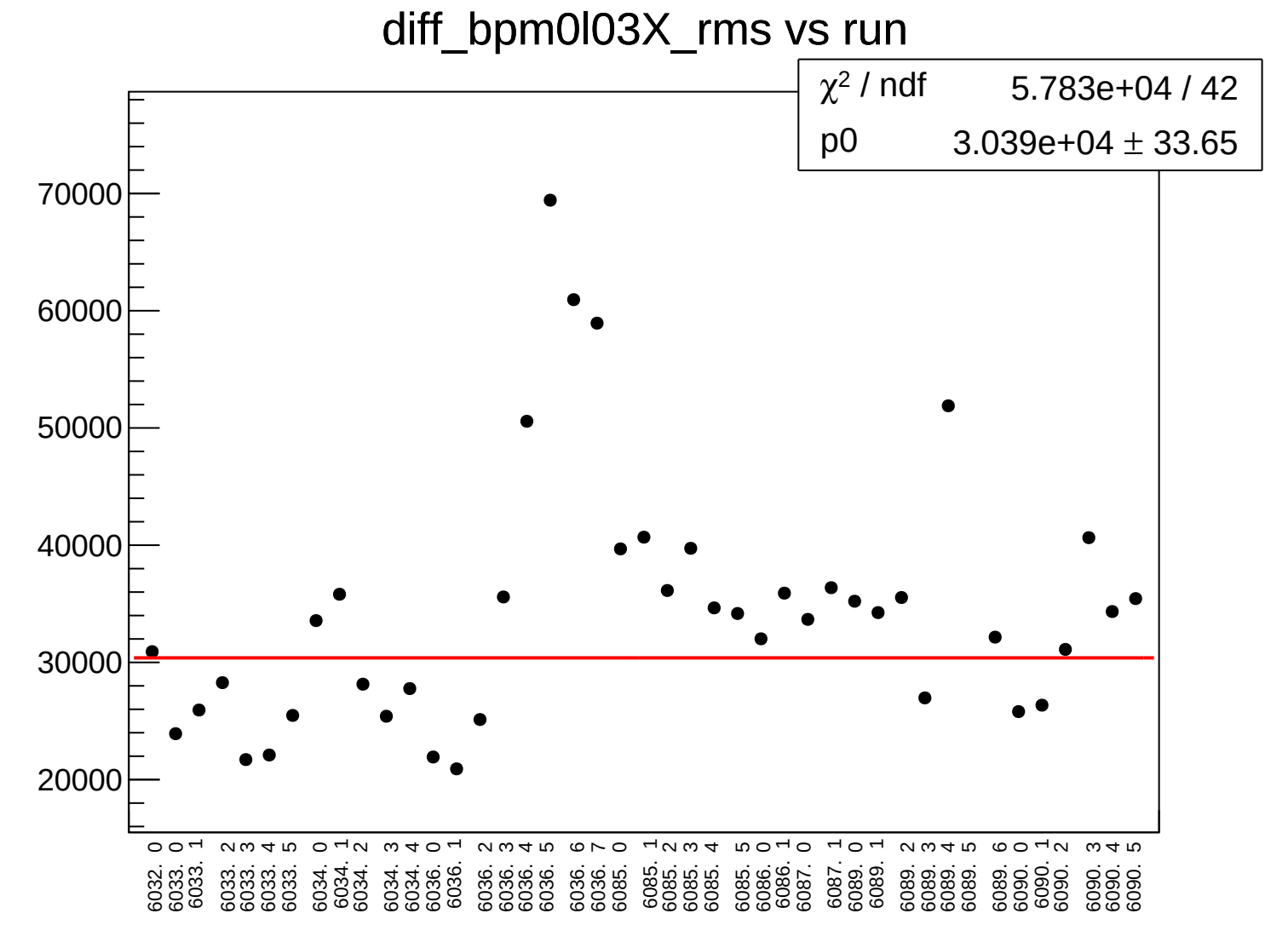

diff_bpm0l02Y_mean vs run
χ² / ndf 64.29 / 42
p0 44.45 ± 2.789
pull
Entries 43
Mean 62.28
Std Dev 0

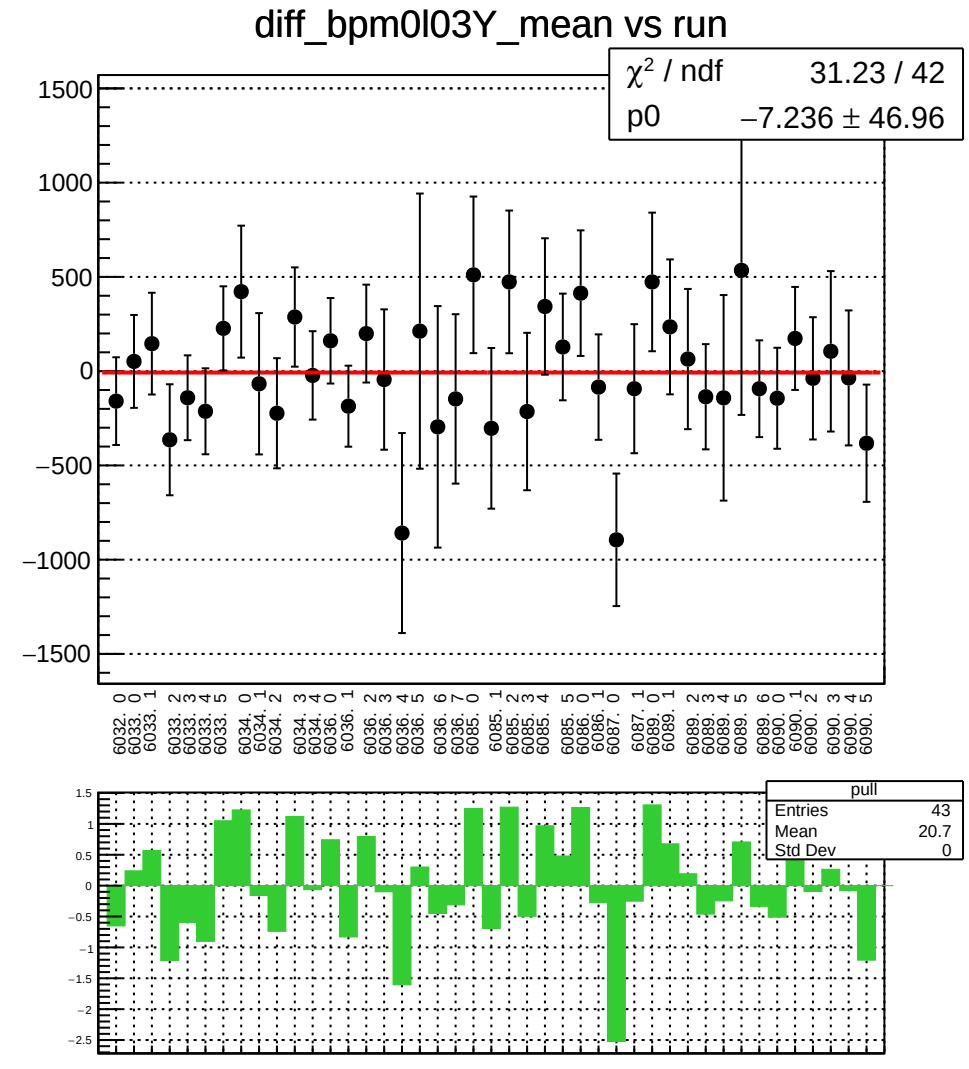

pull1D
Entries 43
Mean −0.139
Std Dev 1.215

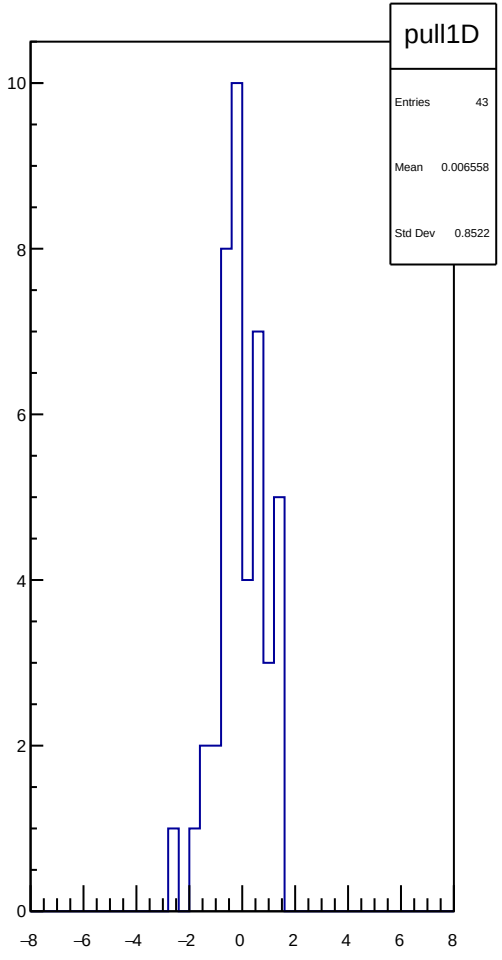

diff_bpm0l02Y_rms vs run
χ² / ndf 2.69e+04 / 42
p0 1814 ± 1.972
2800
2600
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

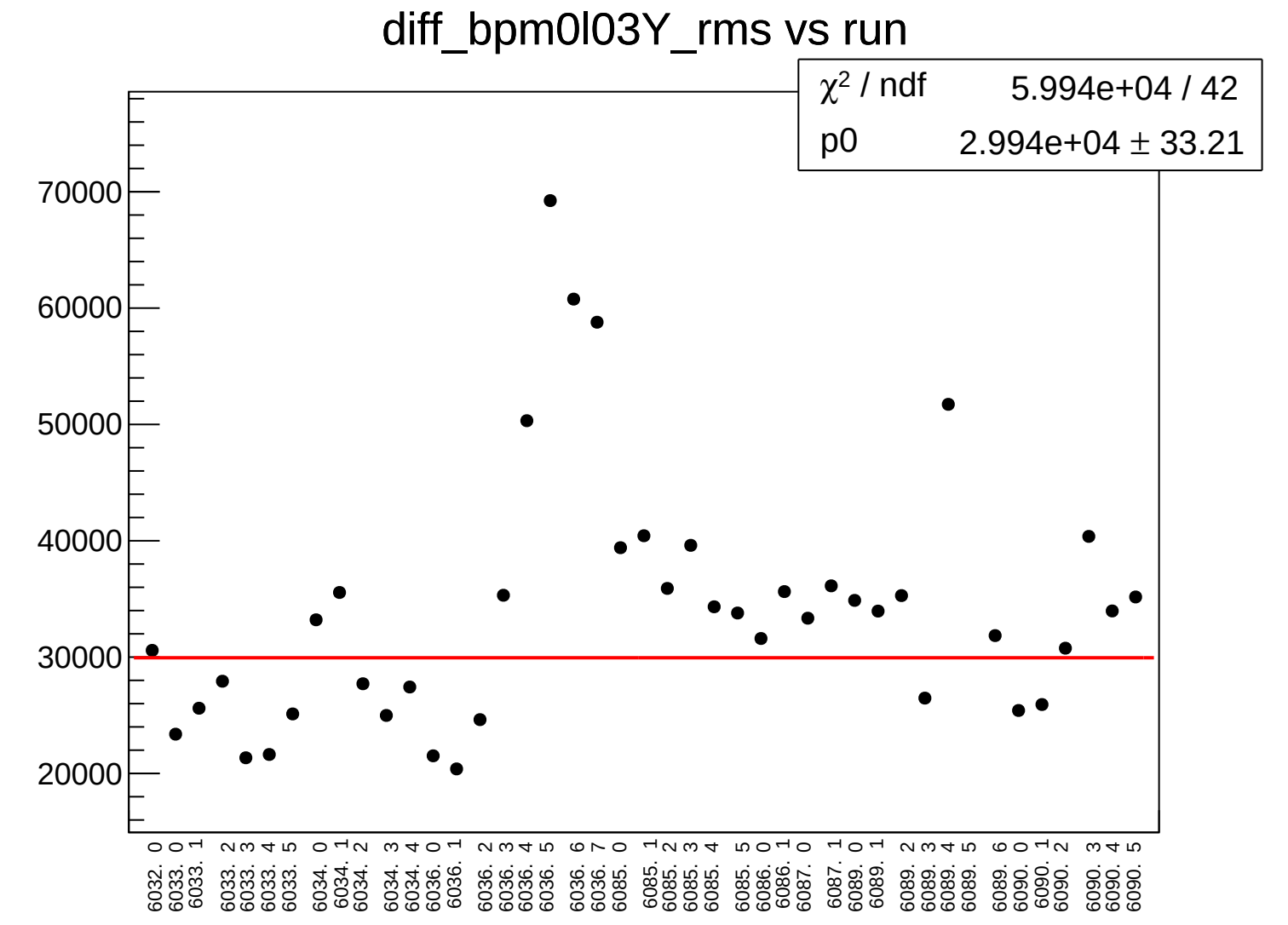

diff_bpm0l03X_mean vs run
χ² / ndf 27.57 / 42
p0 −42.13 ± 47.59
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 43.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

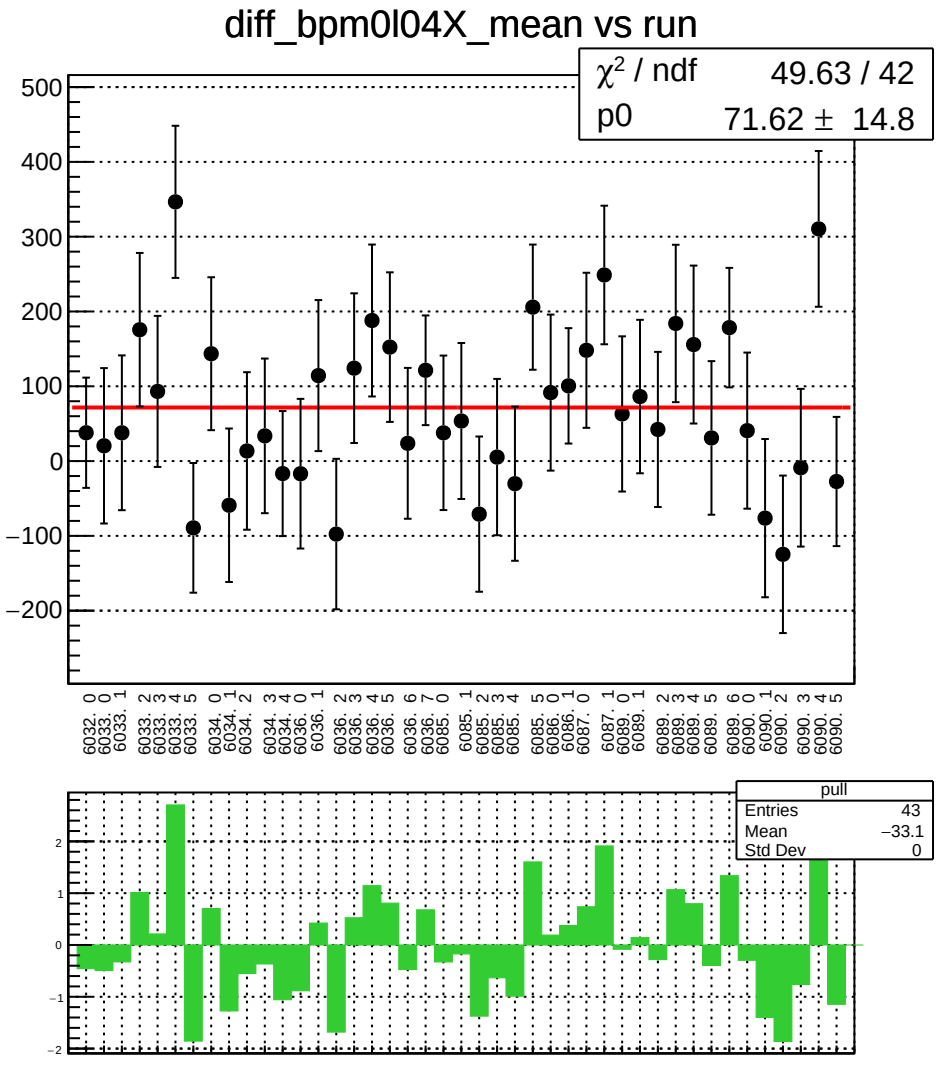

pull1D
Entries 43
Mean 0.01321
Std Dev 0.8006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

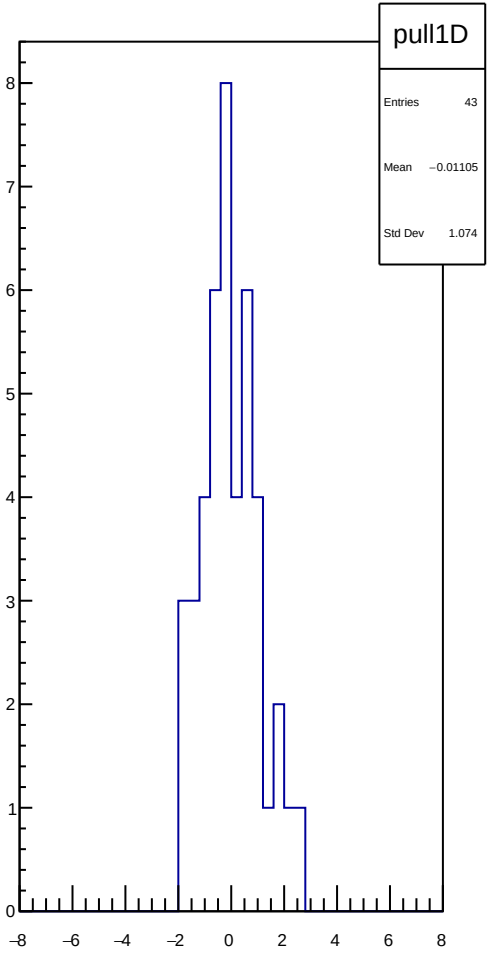

diff_bpm0l03X_rms vs run
χ² / ndf 5.783e+04 / 42
p0 3.039e+04 ± 33.65
70000
60000
50000
40000
30000
20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

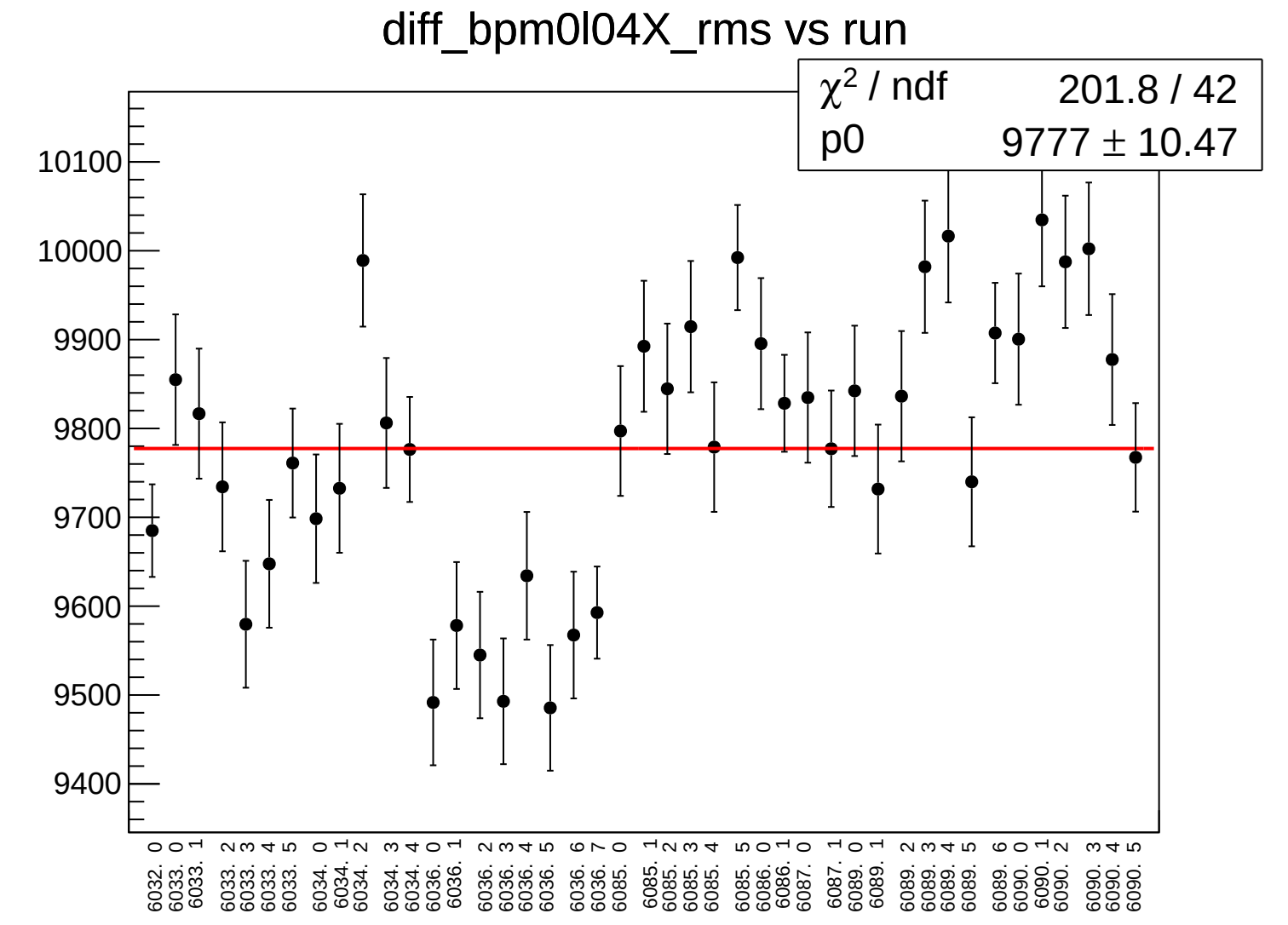

diff_bpm0l03Y_mean vs run
χ² / ndf 31.23 / 42
p0 −7.236 ± 46.96
pull
Entries 43
Mean 20.7
Std Dev 0

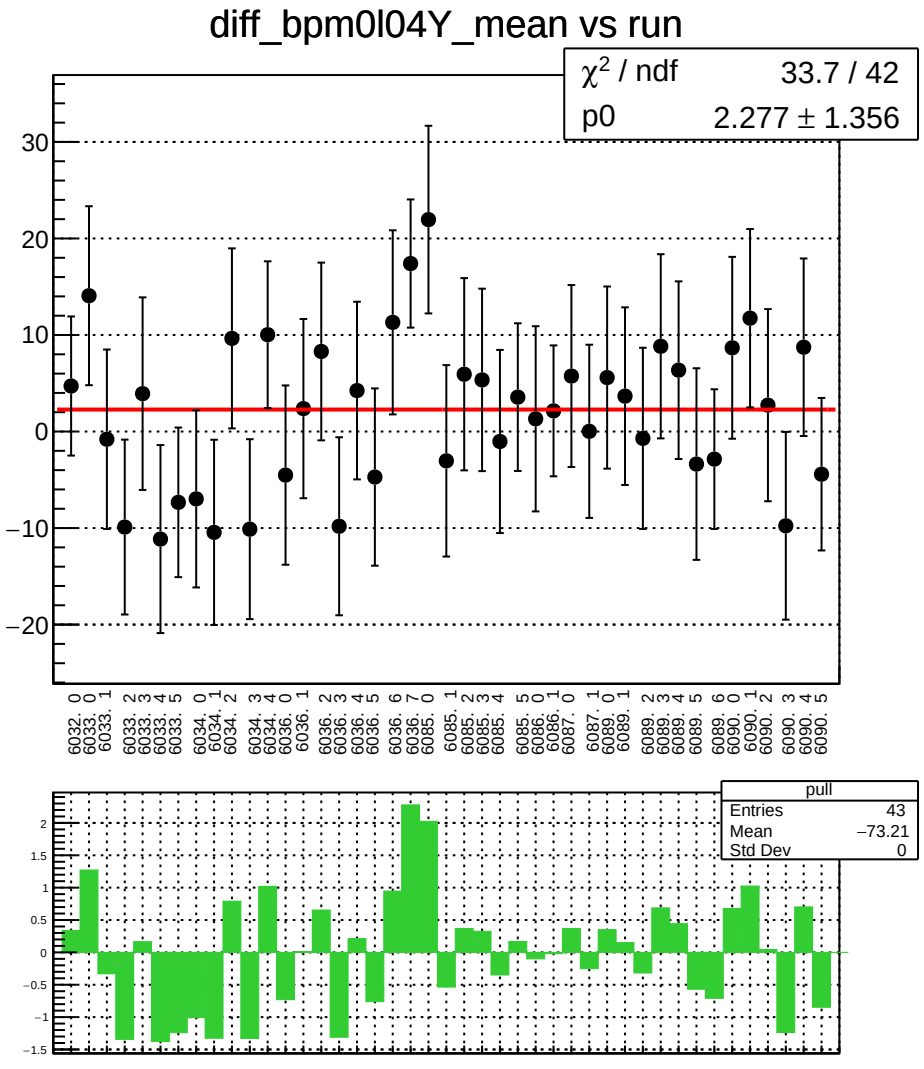

pull1D
Entries 43
Mean 0.006558
Std Dev 0.8522

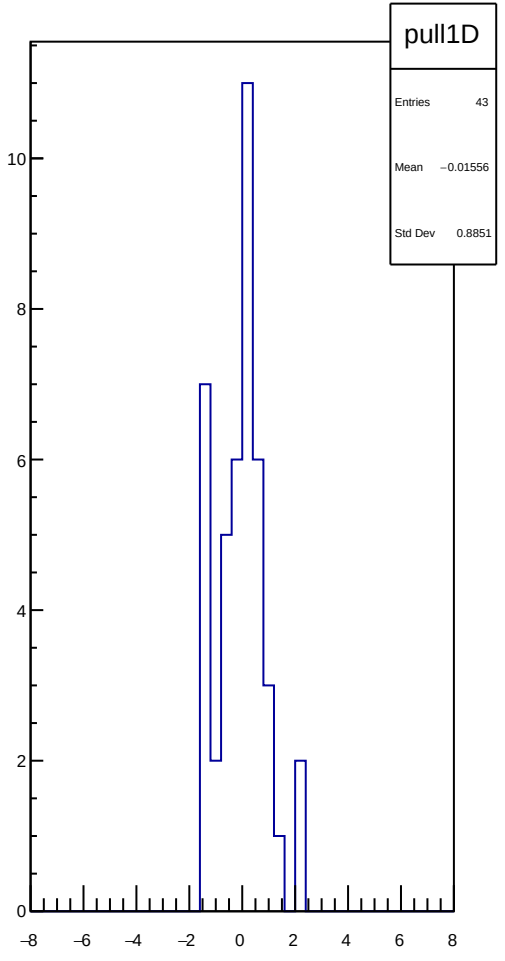

diff_bpm0l03Y_rms vs run
χ² / ndf 5.994e+04 / 42
p0 2.994e+04 ± 33.21
70000
60000
50000
40000
30000
20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

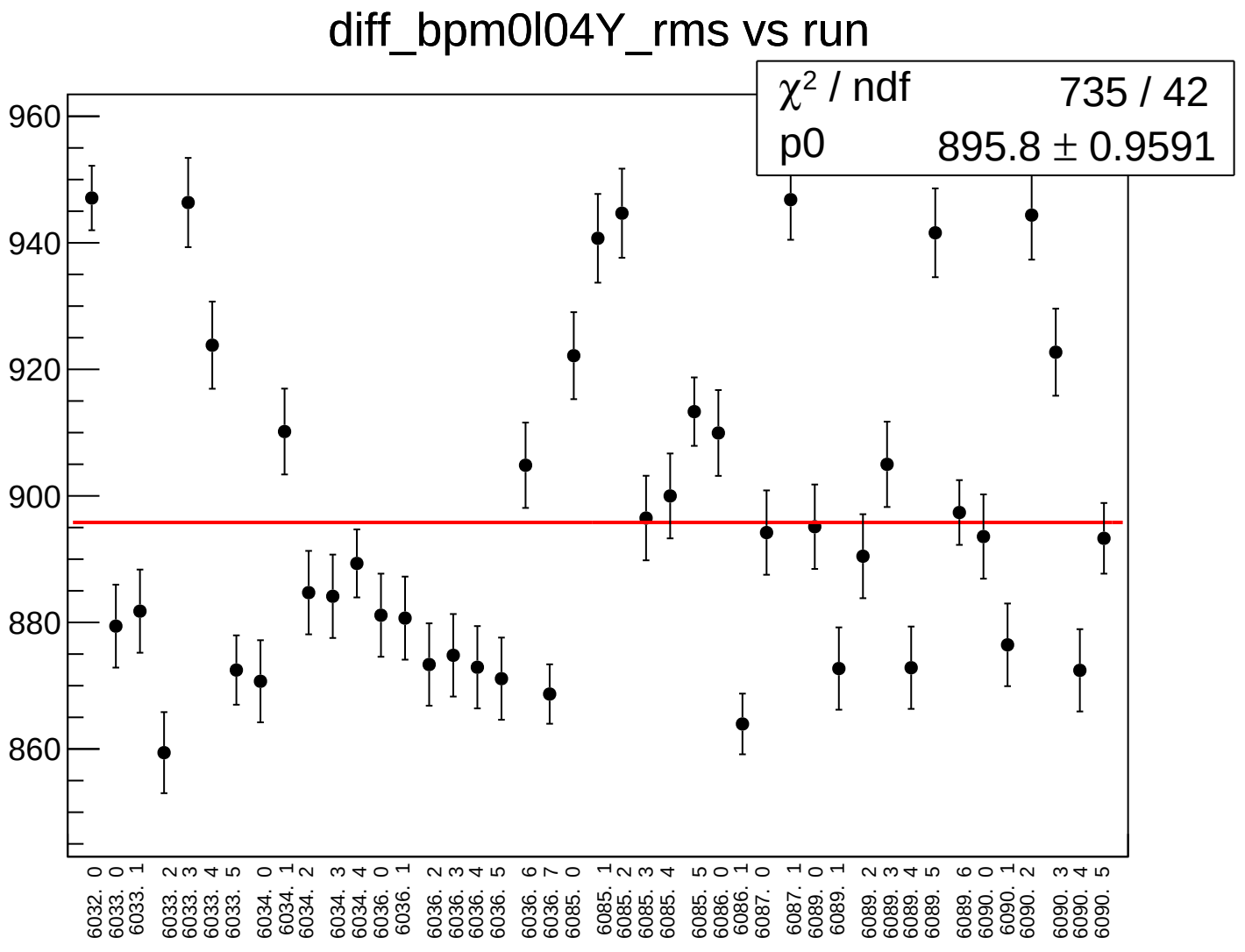

diff_bpm0l04X_mean vs run
χ² / ndf 49.63 / 42
p0 71.62 ± 14.8
pull
Entries 43
Mean −33.1
Std Dev 0

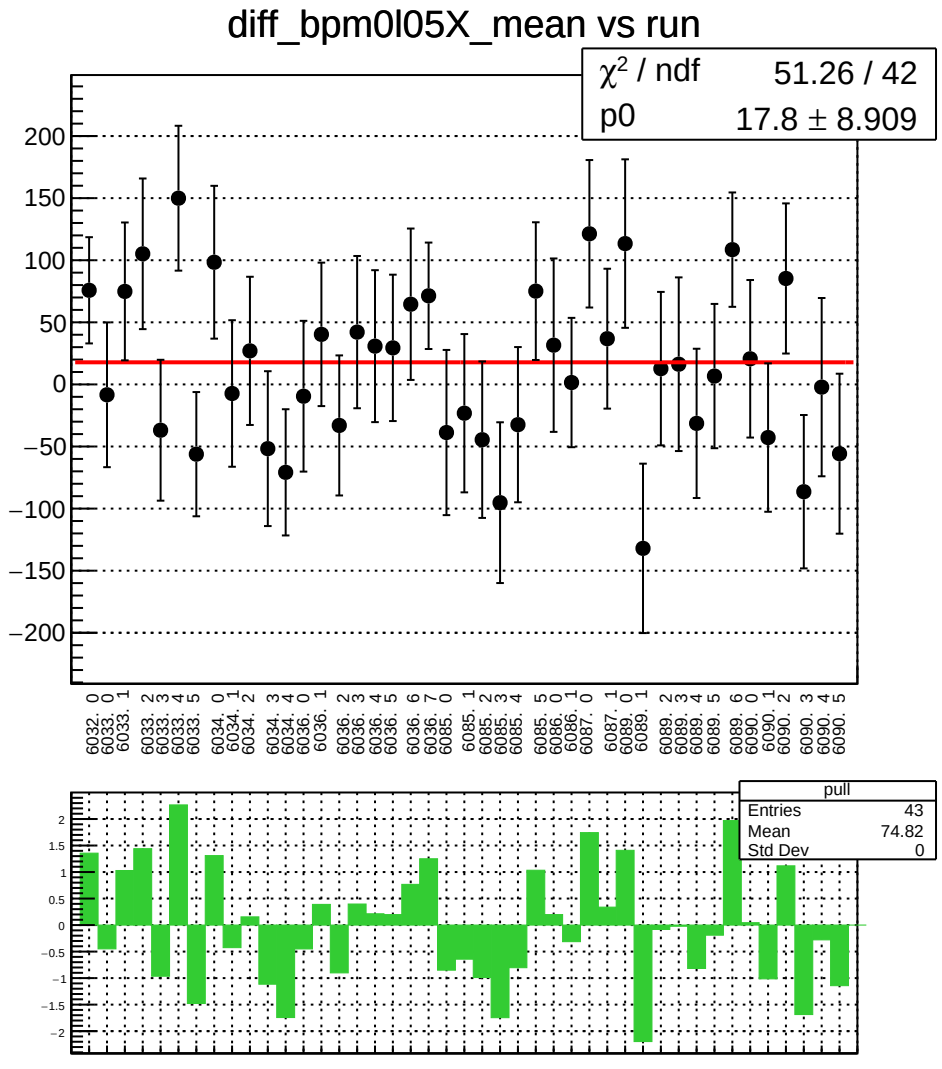

pull1D
Entries 43
Mean −0.01105
Std Dev 1.074

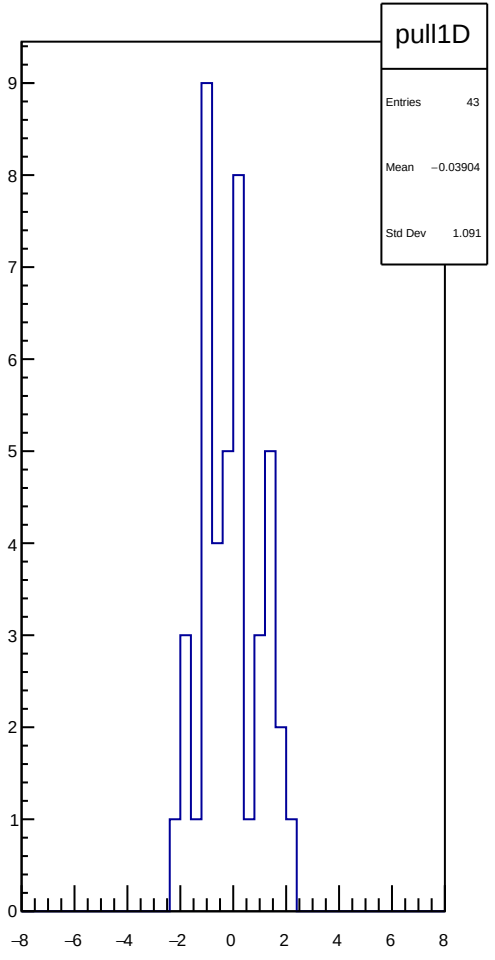

diff_bpm0l04X_rms vs run
χ² / ndf 201.8 / 42
p0 9777 ± 10.47
10100
10000
9900
9800
9700
9600
9500
9400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

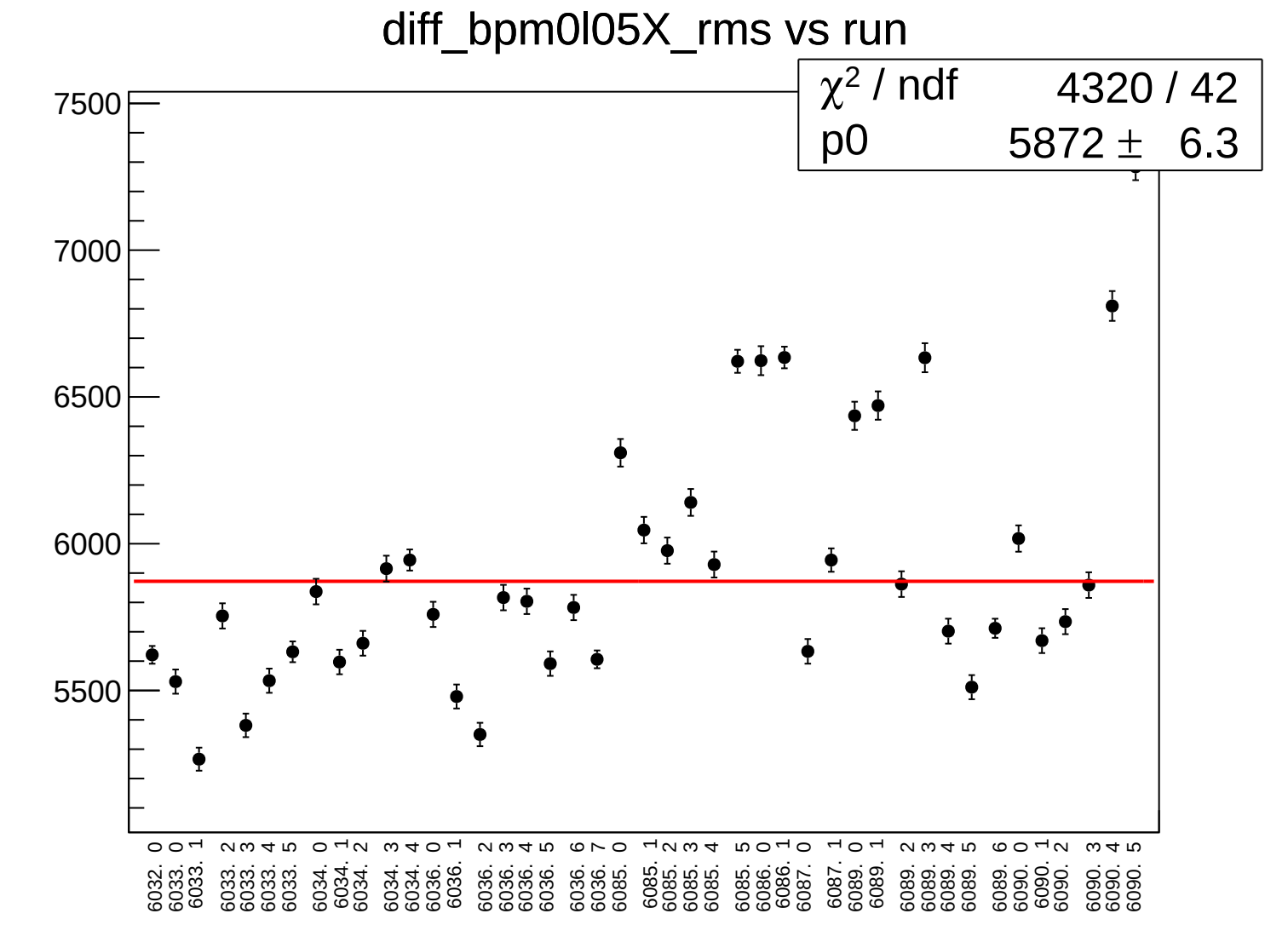

diff_bpm0l04Y_mean vs run
χ² / ndf 33.7 / 42
p0 2.277 ± 1.356
pull
Entries 43
Mean −73.21
Std Dev 0

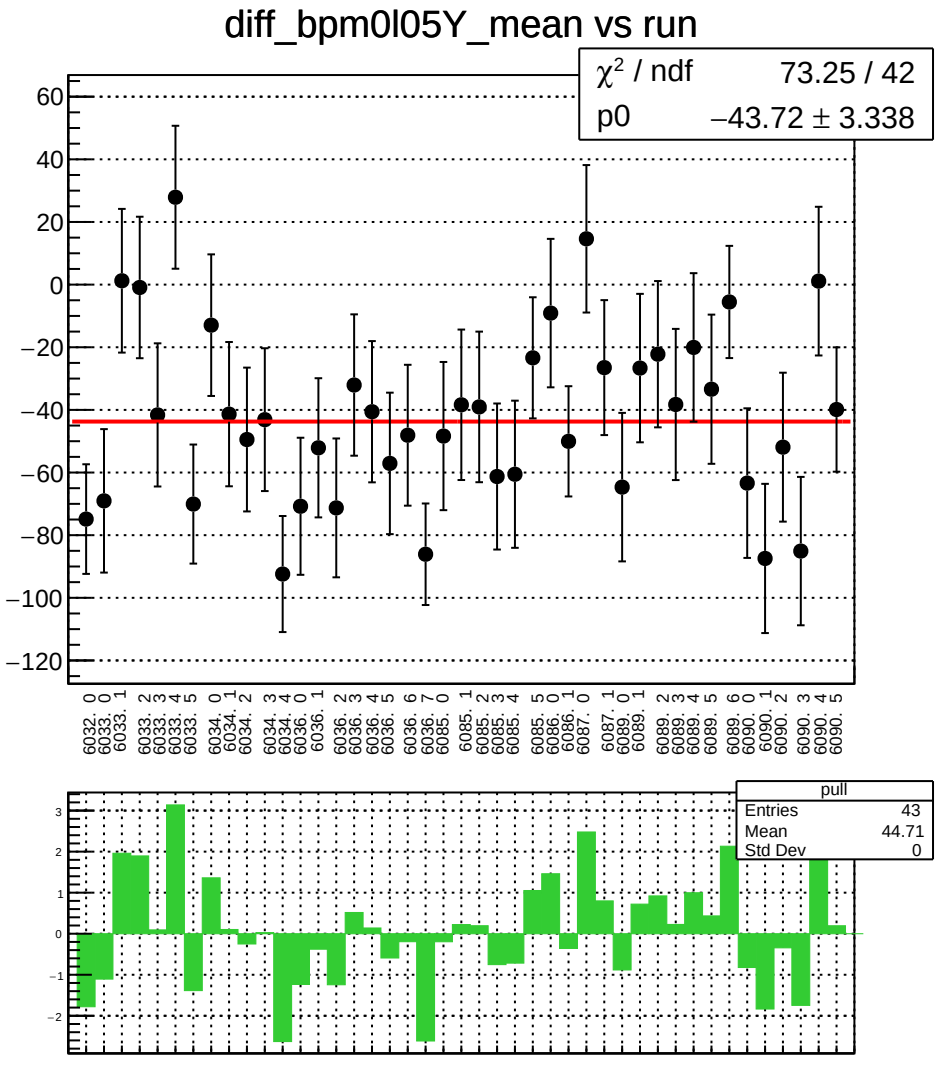

pull1D
Entries 43
Mean −0.01556
Std Dev 0.8851

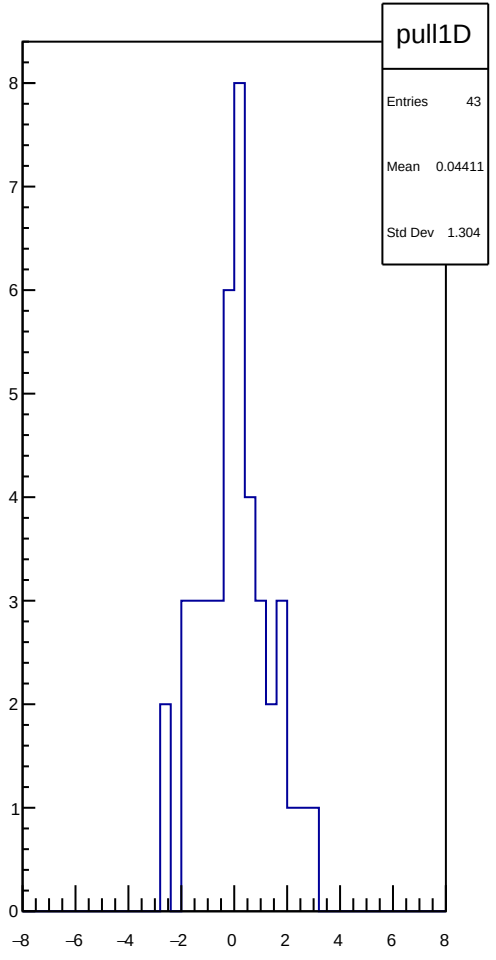

diff_bpm0l04Y_rms vs run
χ² / ndf 735 / 42
p0 895.8 ± 0.9591
960
940
920
900
880
860
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

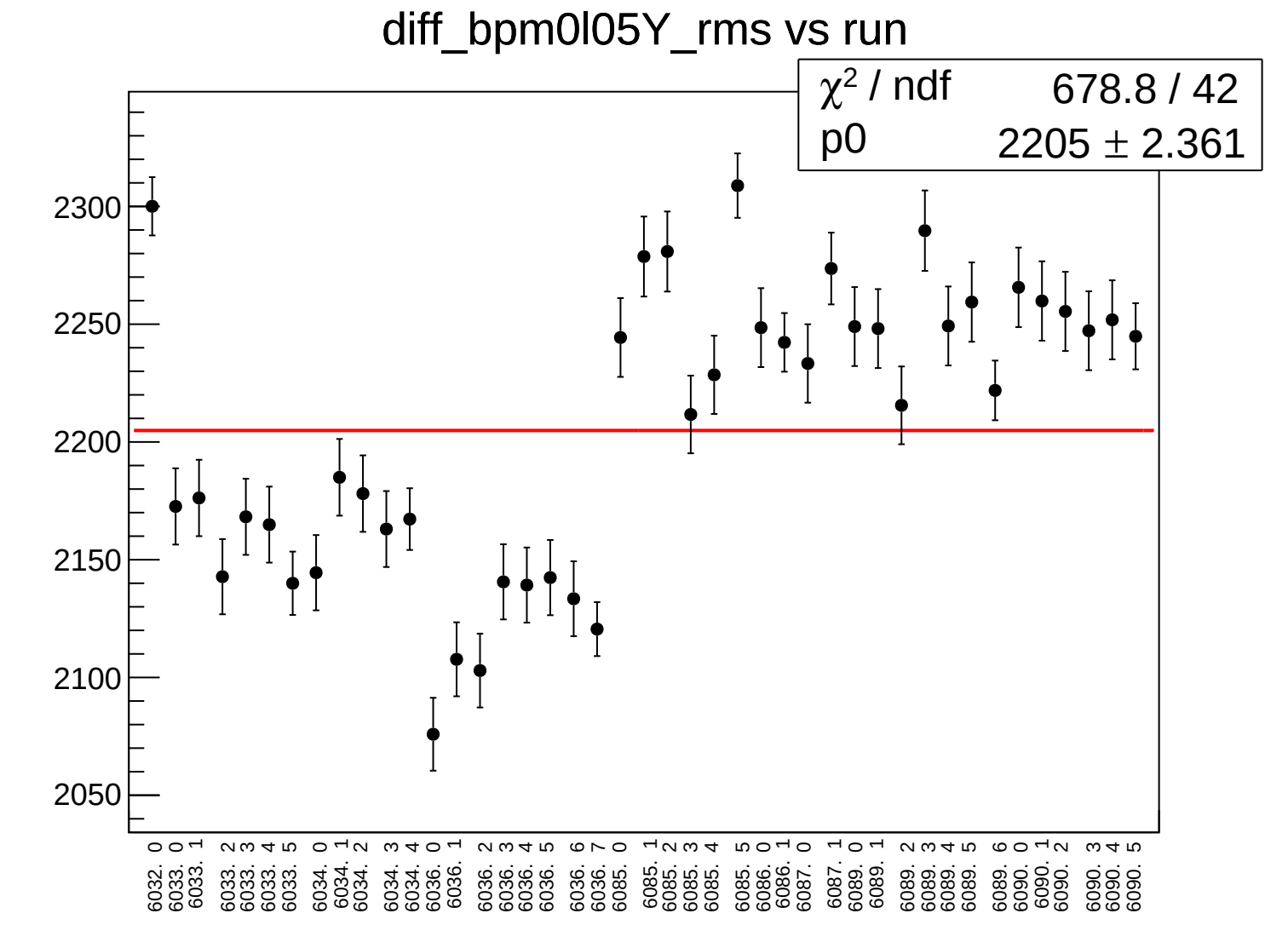

diff_bpm0l05X_mean vs run
χ² / ndf 51.26 / 42
p0 17.8 ± 8.909
pull
Entries 43
Mean 74.82
Std Dev 0

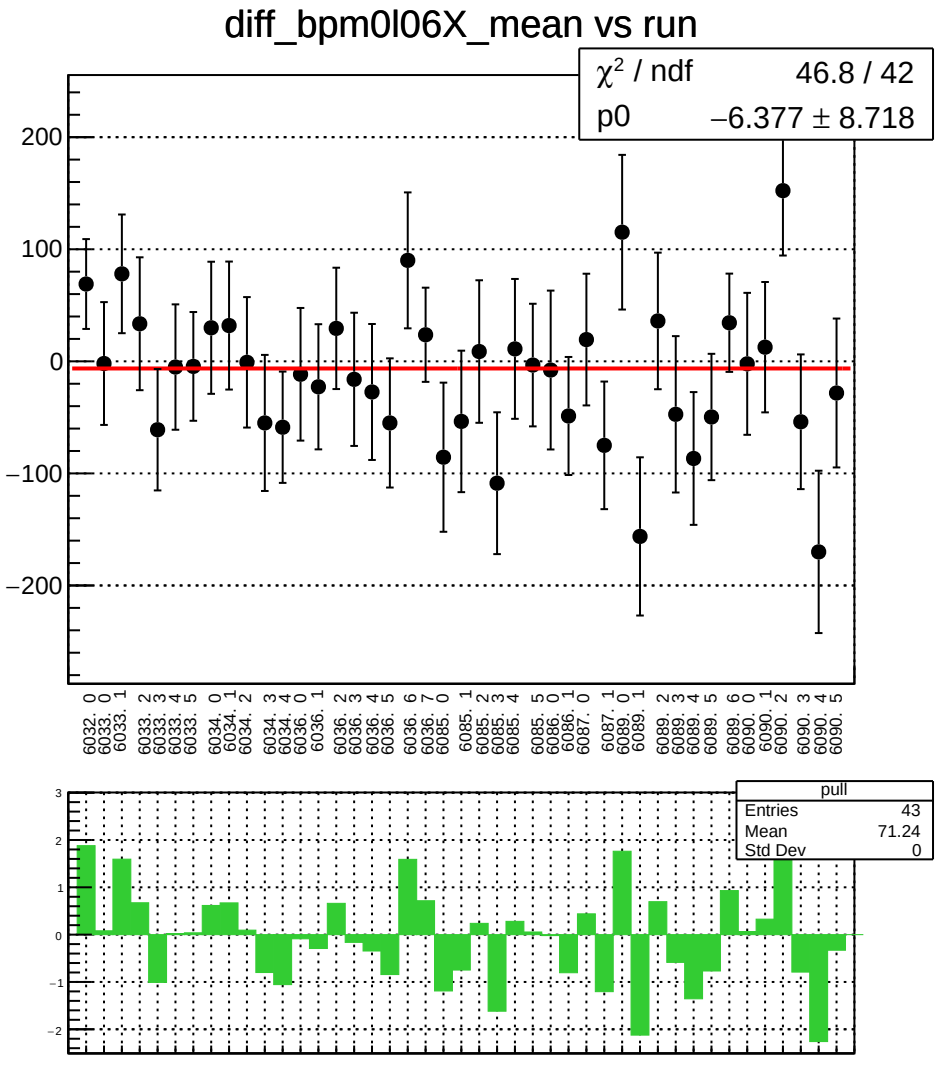

pull1D
Entries 43
Mean −0.03904
Std Dev 1.091

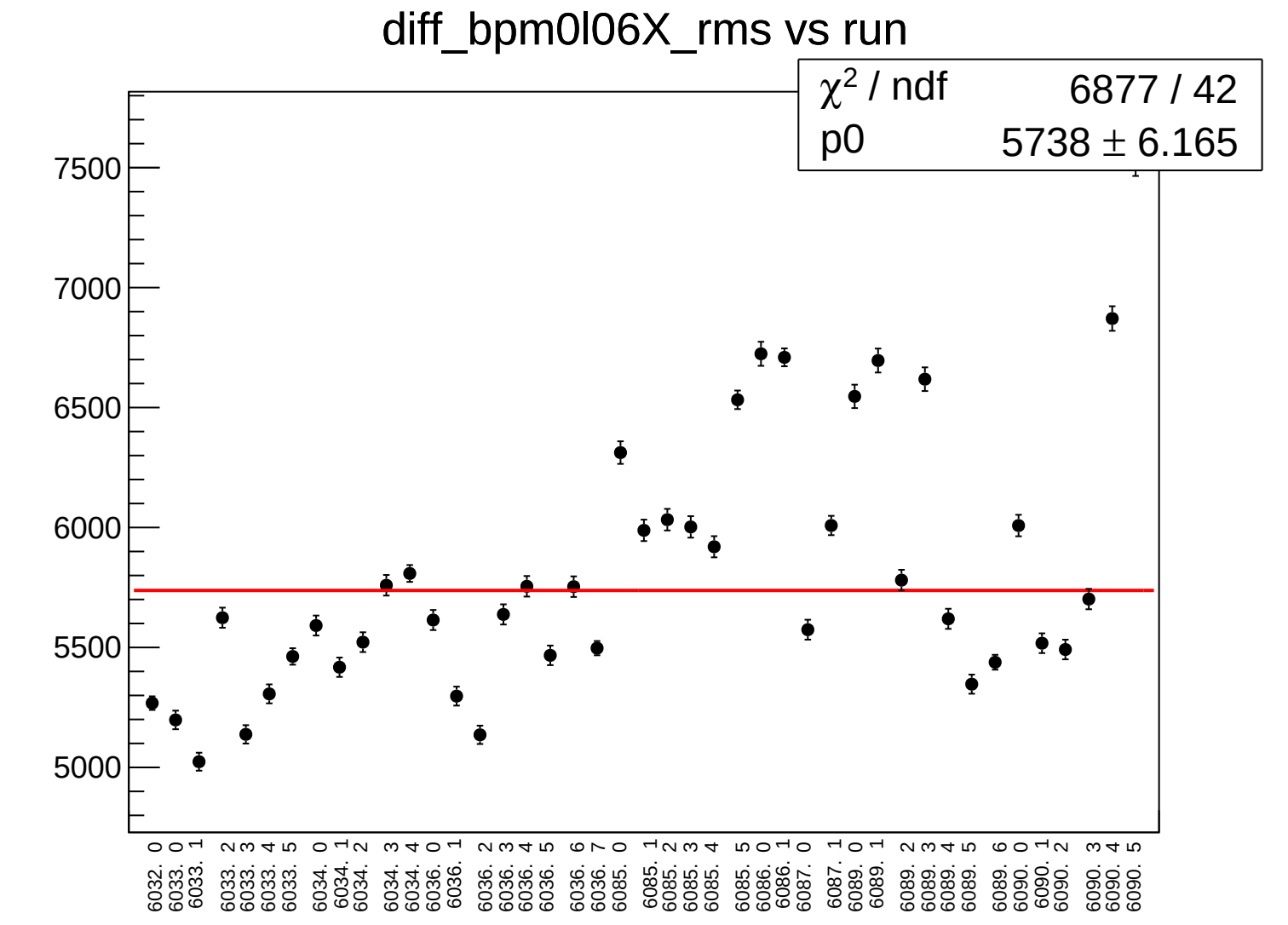

diff_bpm0l05X_rms vs run
χ² / ndf 4320 / 42
p0 5872 ± 6.3
7500
7000
6500
6000
5500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

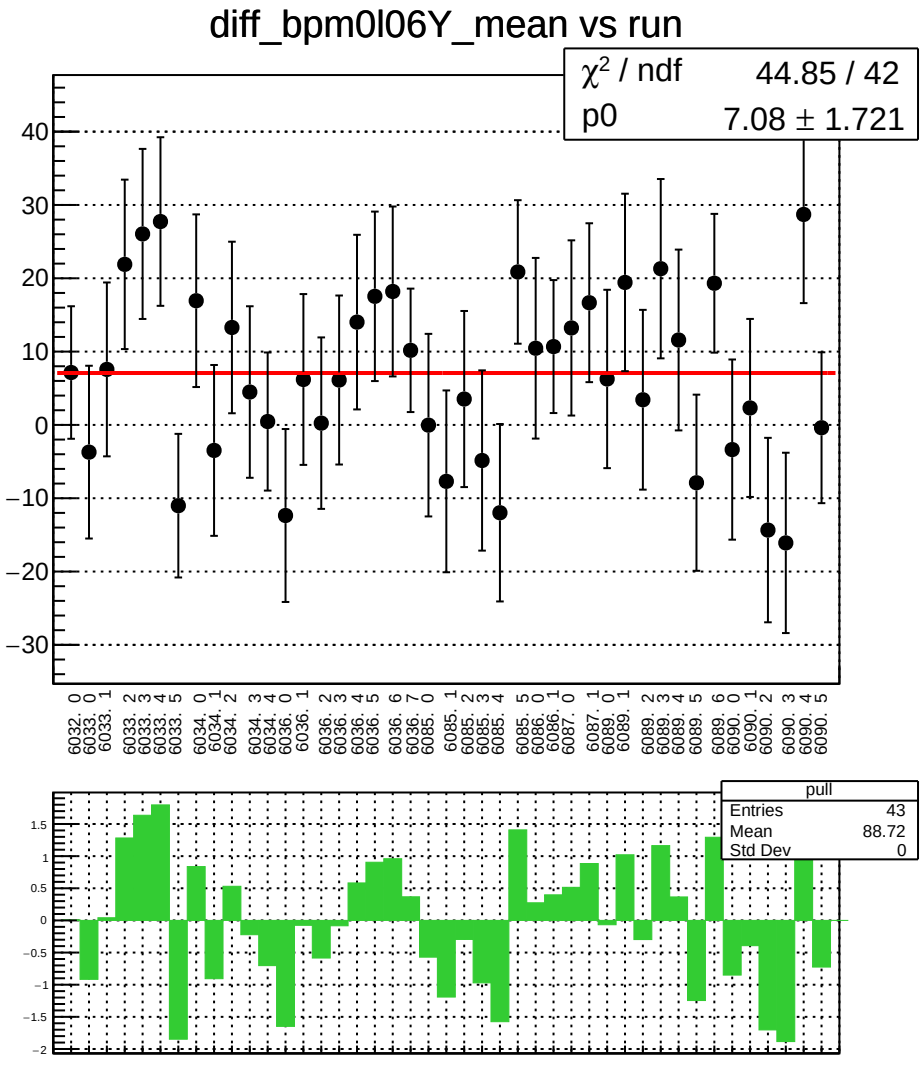

diff_bpm0l05Y_mean vs run
χ² / ndf 73.25 / 42
p0 −43.72 ± 3.338
pull
Entries 43
Mean 44.71
Std Dev 0

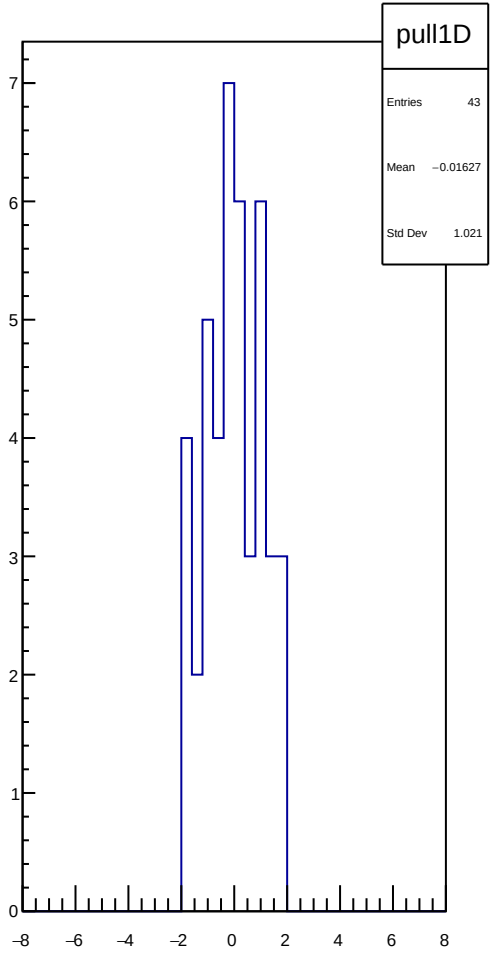

pull1D
Entries 43
Mean 0.04411
Std Dev 1.304

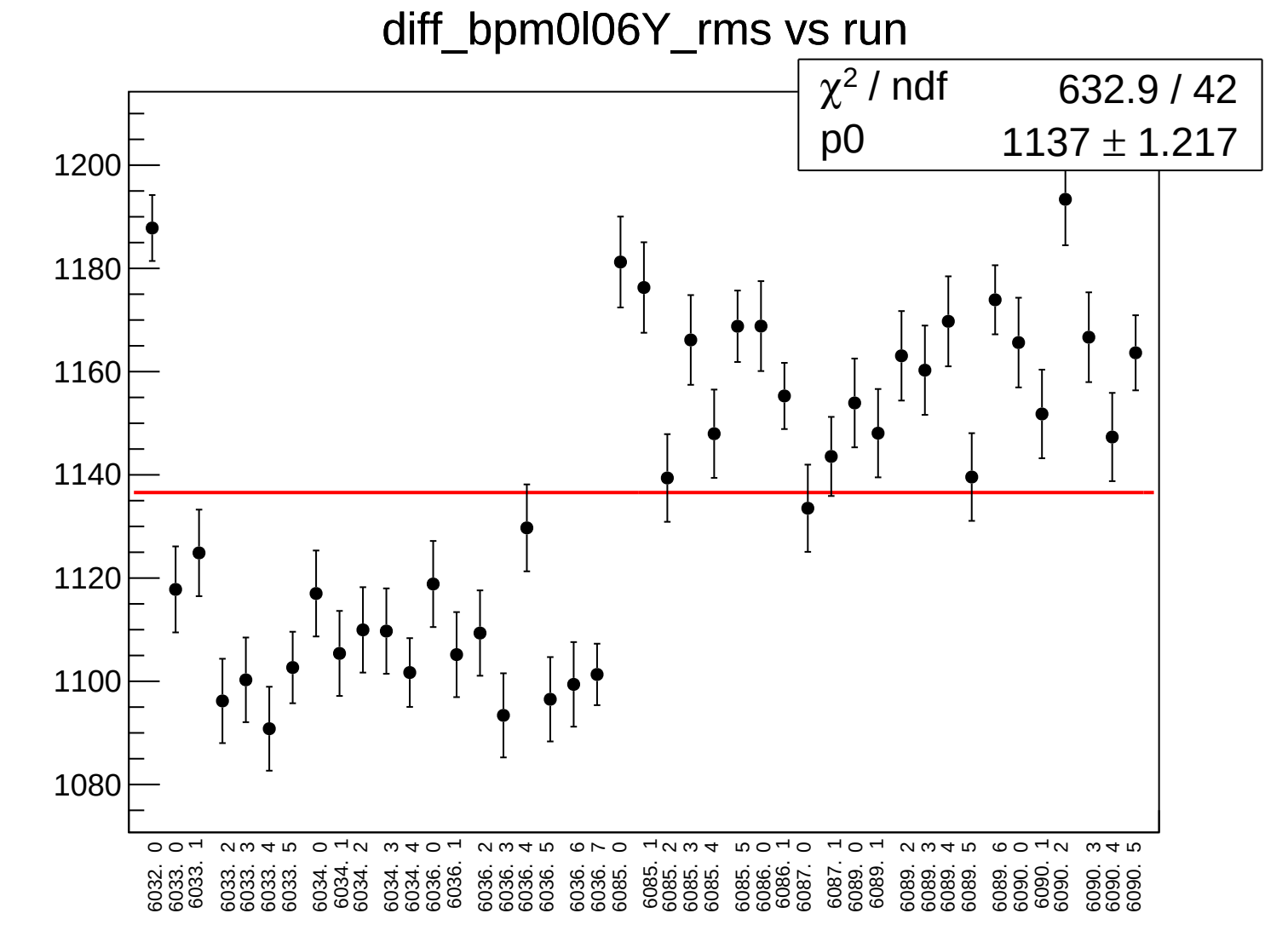

diff_bpm0l05Y_rms vs run
χ² / ndf 678.8 / 42
p0 2205 ± 2.361
2300
2250
2200
2150
2100
2050
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

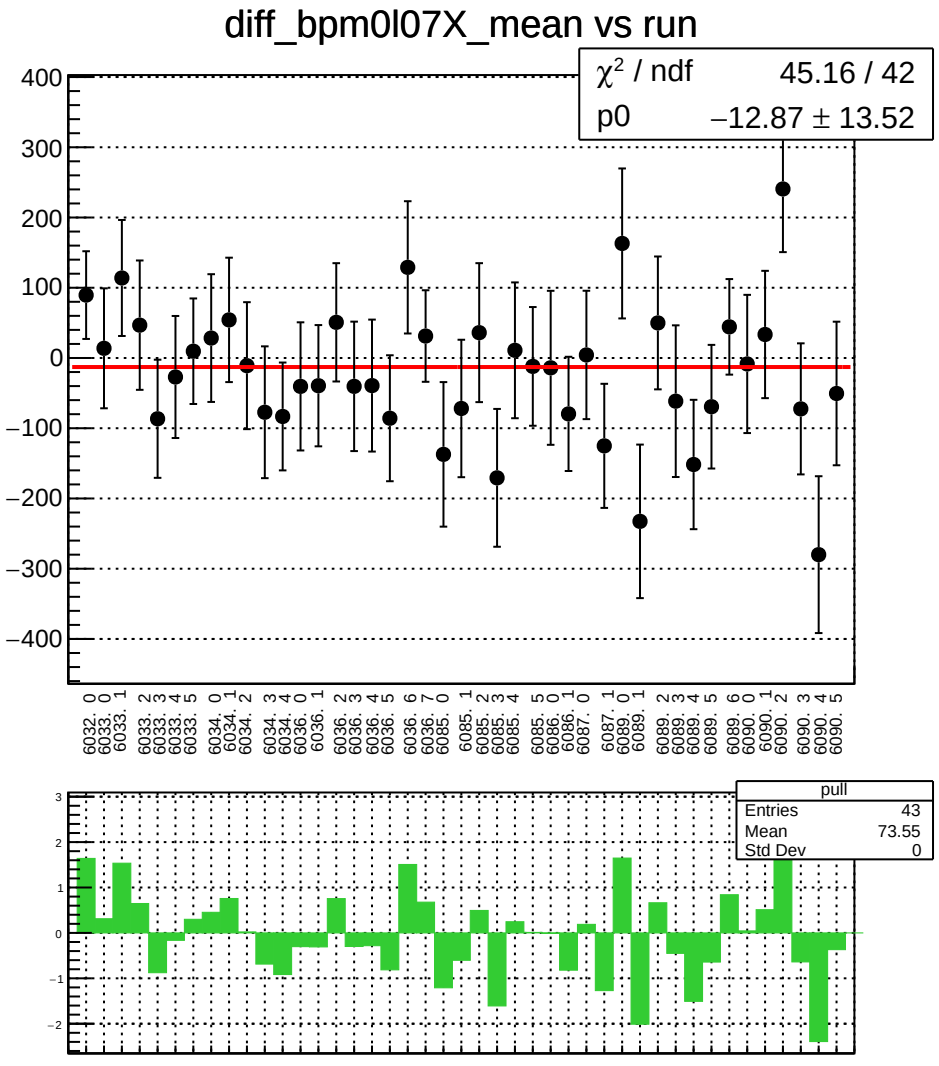

diff_bpm0l06X_mean vs run
χ² / ndf 46.8 / 42
p0 −6.377 ± 8.718
200
100
0
−100
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 71.24
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05172
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

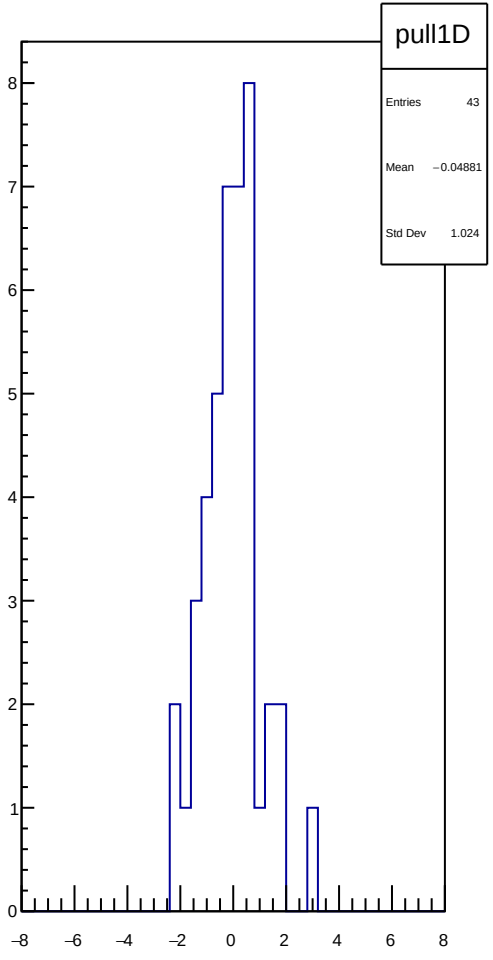

diff_bpm0l06X_rms vs run
χ² / ndf 6877 / 42
p0 5738 ± 6.165
7500
7000
6500
6000
5500
5000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

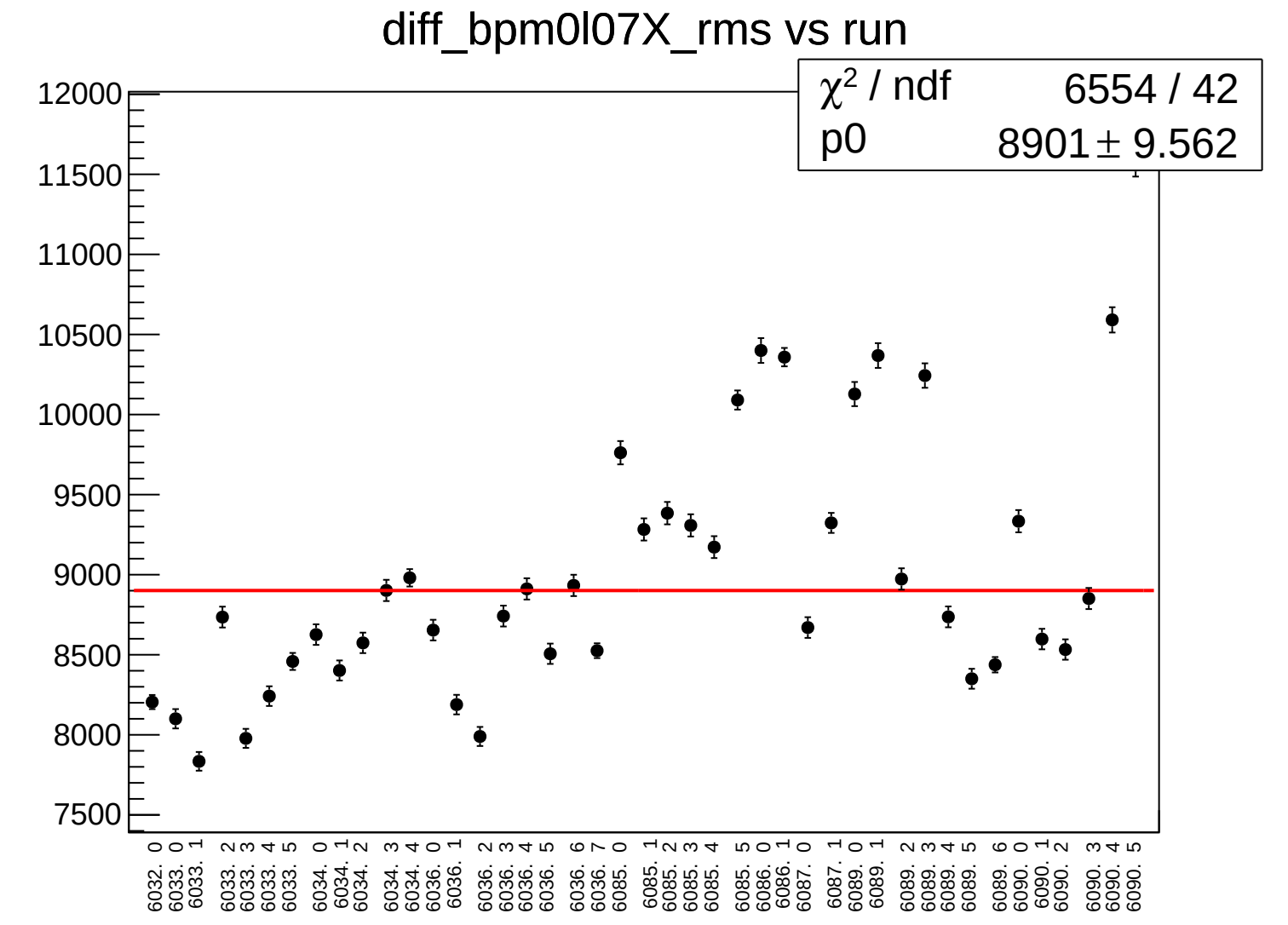

diff_bpm0l06Y_mean vs run
χ² / ndf 44.85 / 42
p0 7.08 ± 1.721
40
30
20
10
0
−10
−20
−30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 88.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

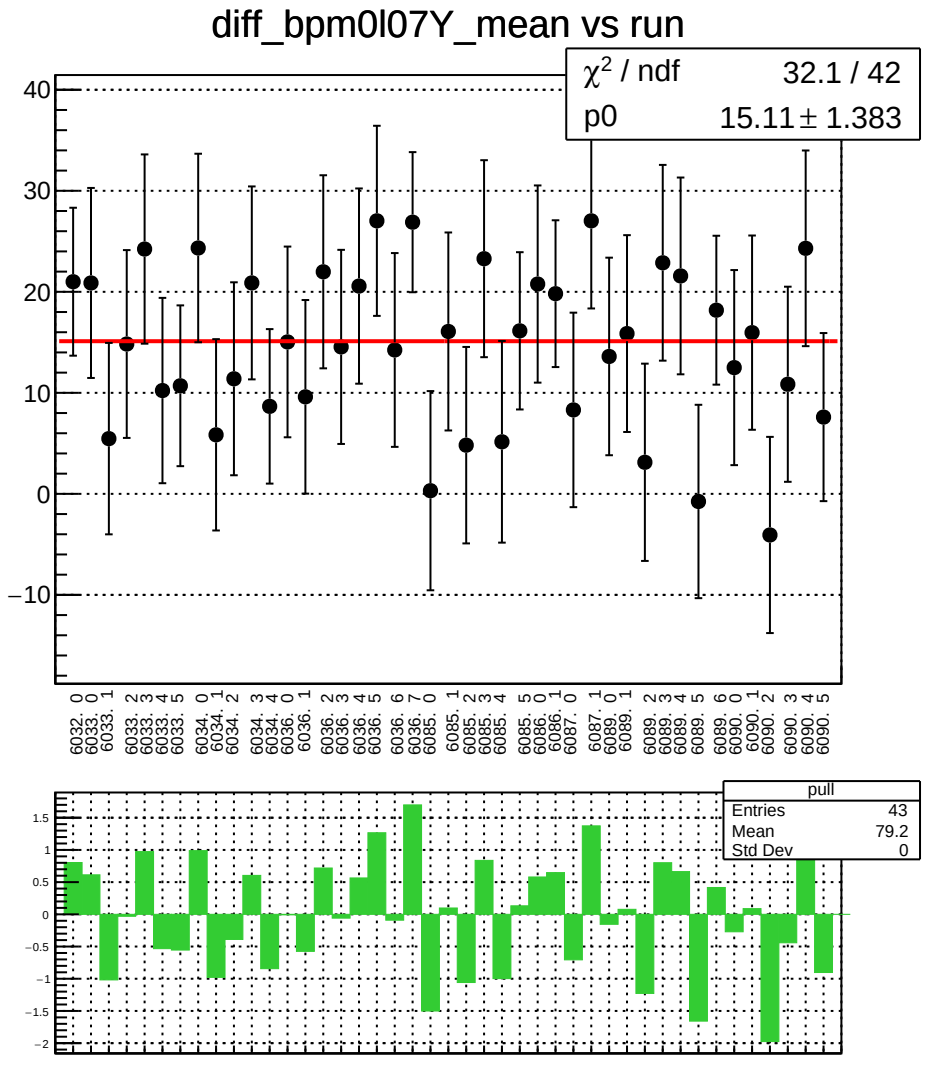

pull1D
Entries 43
Mean −0.01627
Std Dev 1.021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

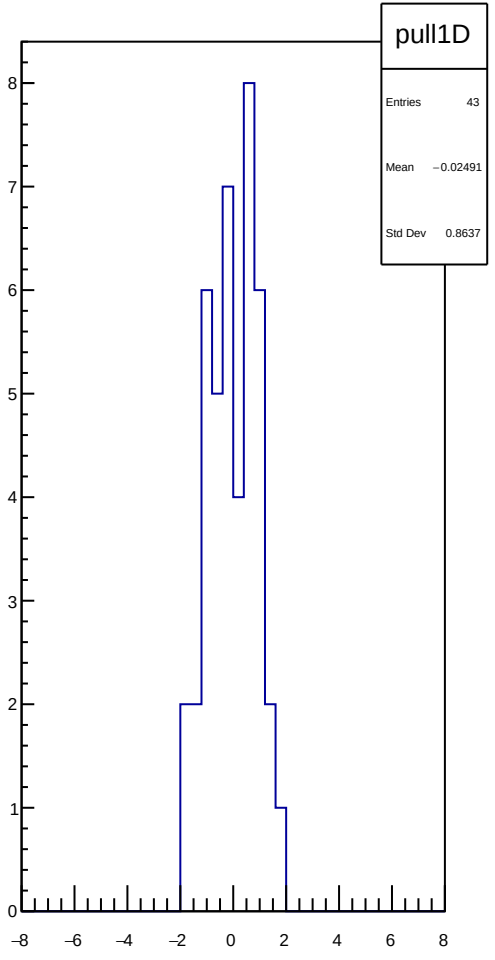

diff_bpm0l06Y_rms vs run
χ² / ndf 632.9 / 42
p0 1137 ± 1.217
1200
1180
1160
1140
1120
1100
1080
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

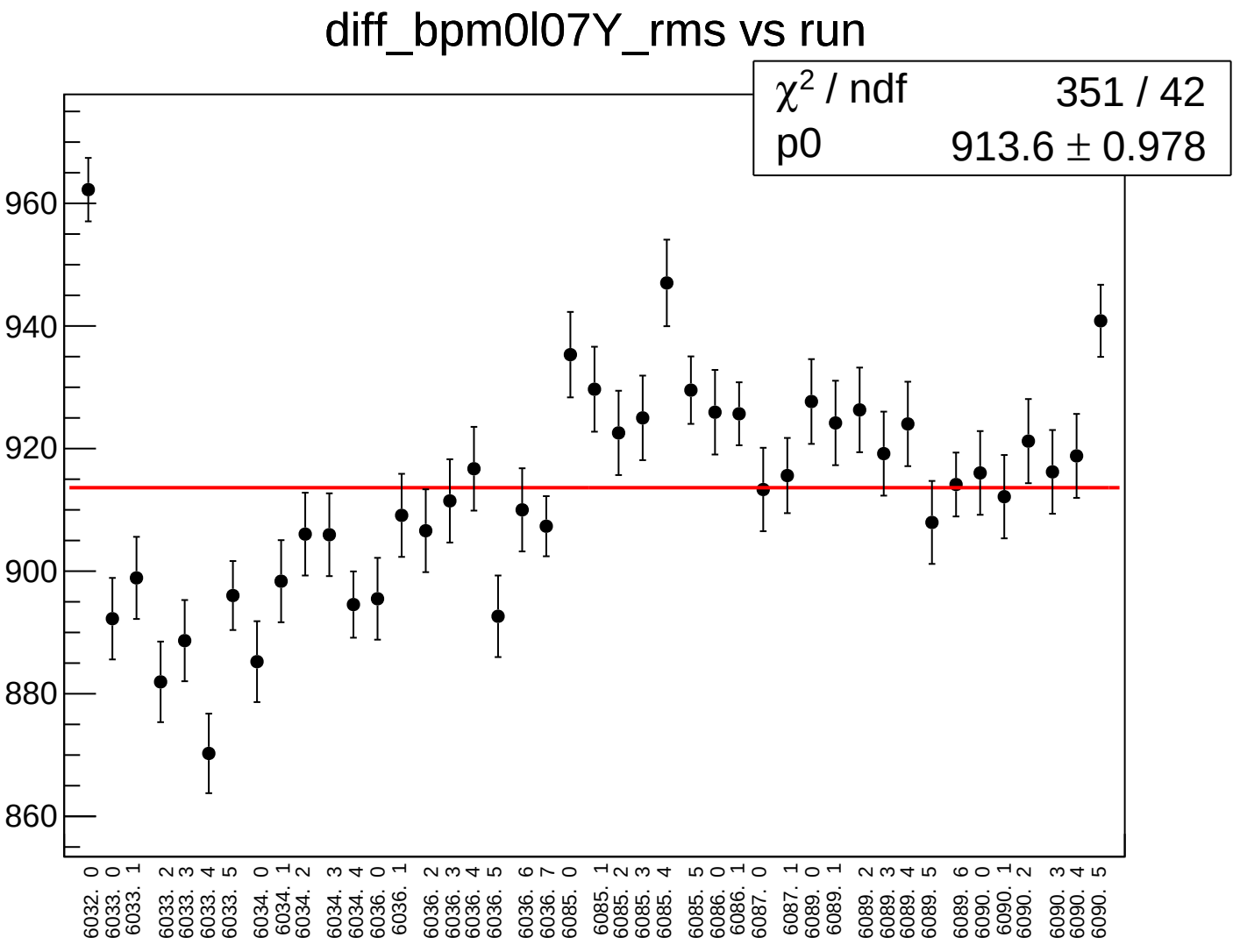

diff_bpm0l07X_mean vs run
χ² / ndf 45.16 / 42
p0 −12.87 ± 13.52
pull
Entries 43
Mean 73.55
Std Dev 0

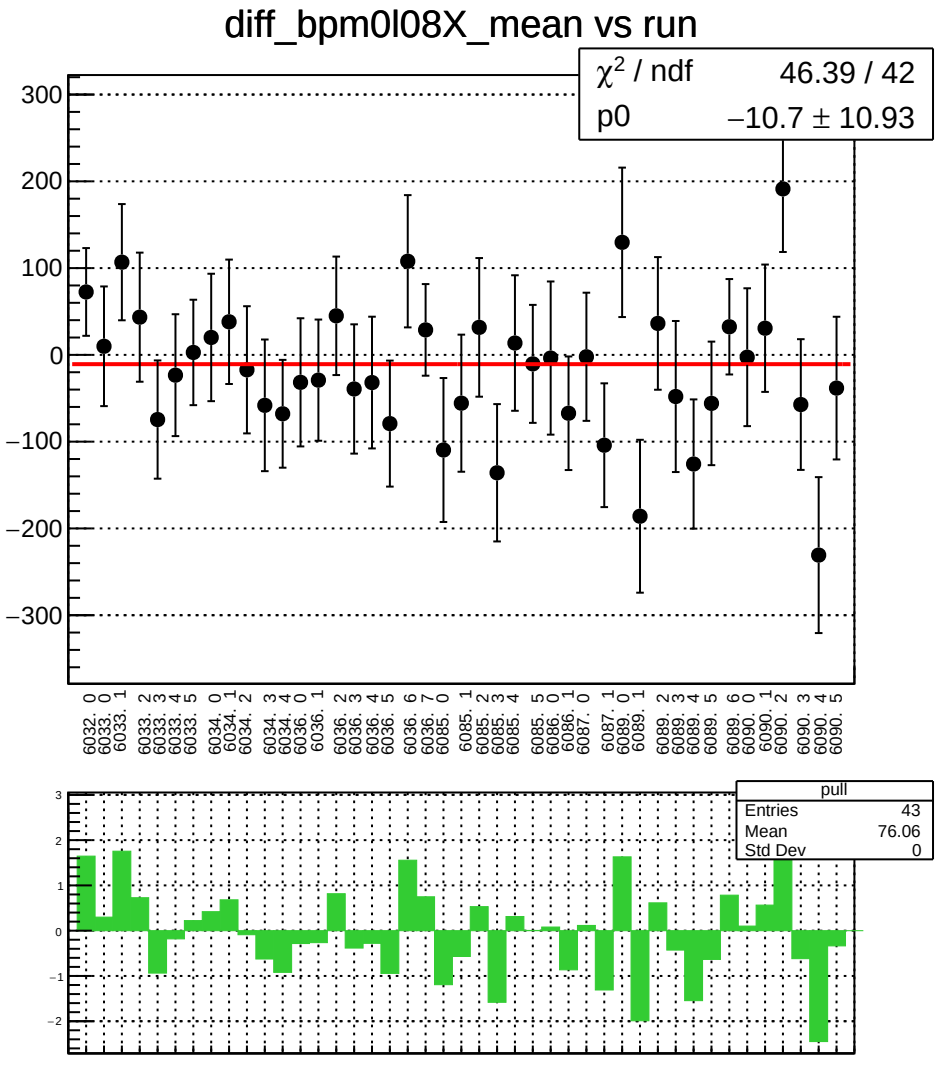

pull1D
Entries 43
Mean −0.04881
Std Dev 1.024

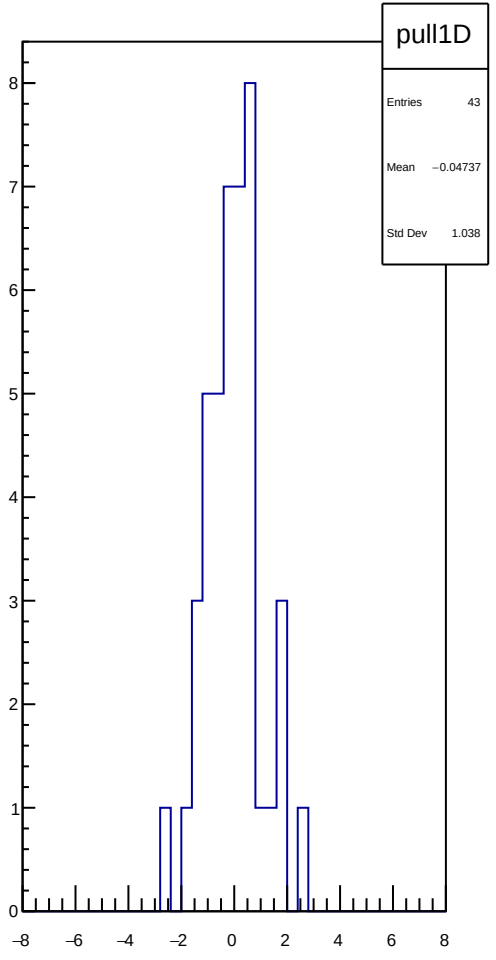

diff_bpm0l07X_rms vs run
χ² / ndf 6554 / 42
p0 8901 ± 9.562
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

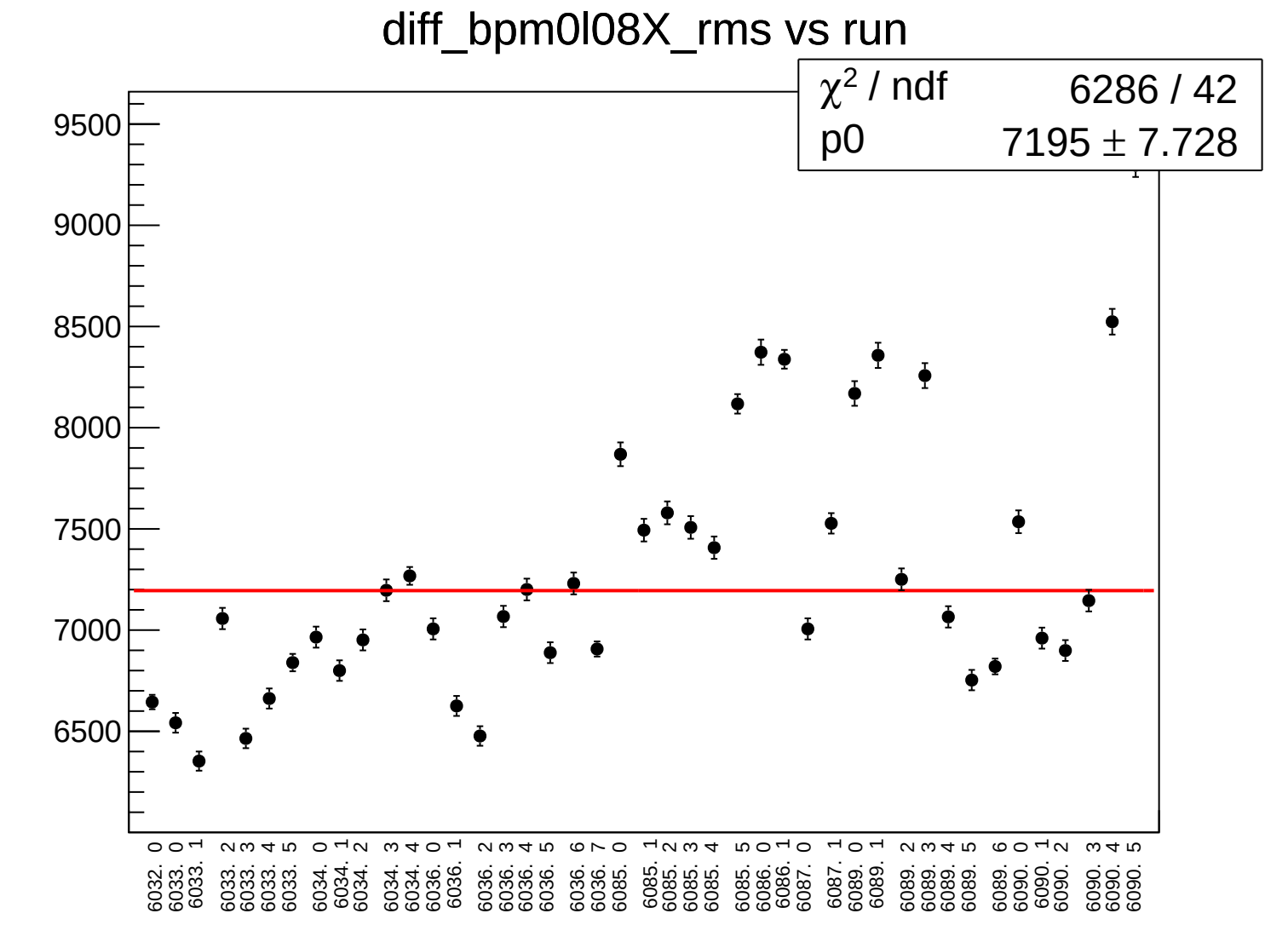

diff_bpm0l07Y_mean vs run
χ² / ndf 32.1 / 42
p0 15.11 ± 1.383
pull
Entries 43
Mean 79.2
Std Dev 0

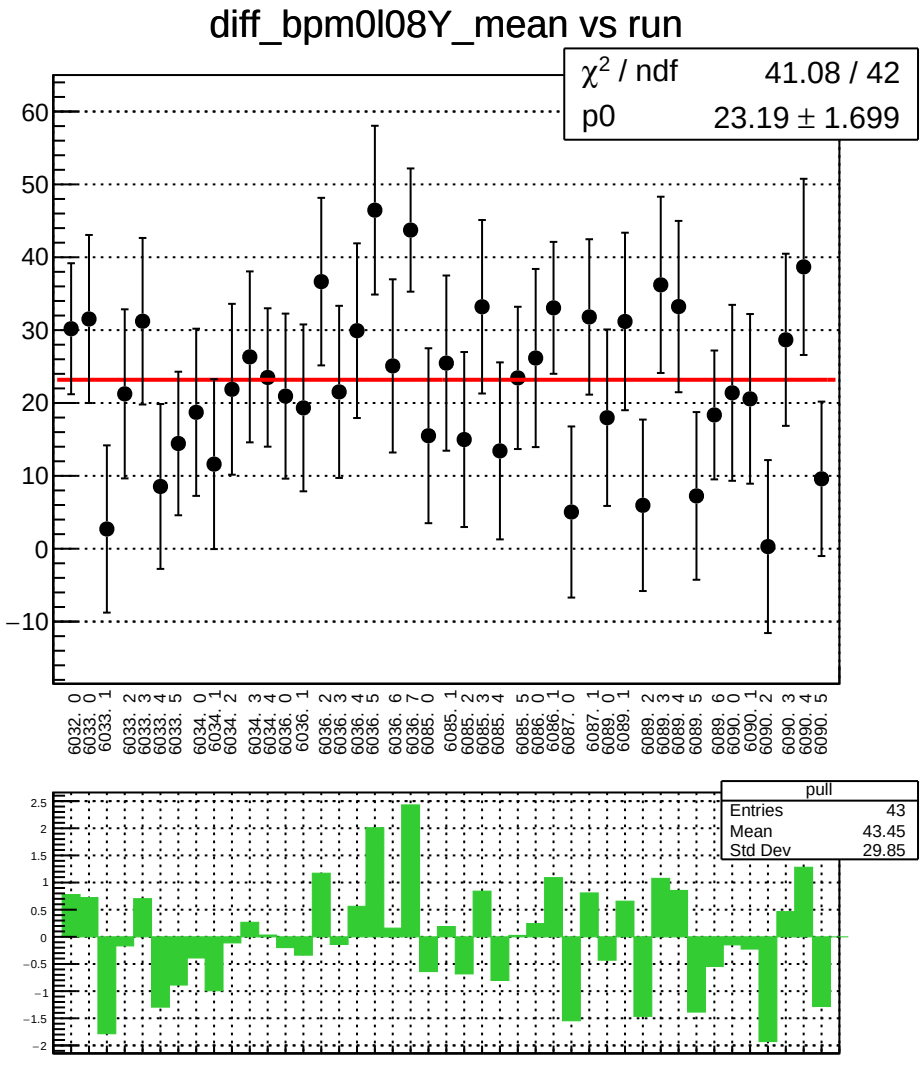

pull1D
Entries 43
Mean −0.02491
Std Dev 0.8637

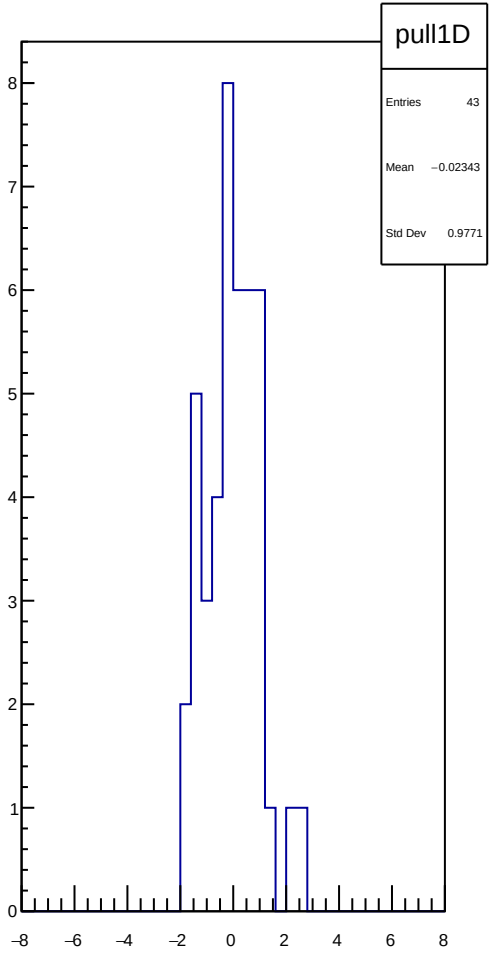

diff_bpm0l07Y_rms vs run
χ² / ndf 351 / 42
p0 913.6 ± 0.978
960
940
920
900
880
860
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

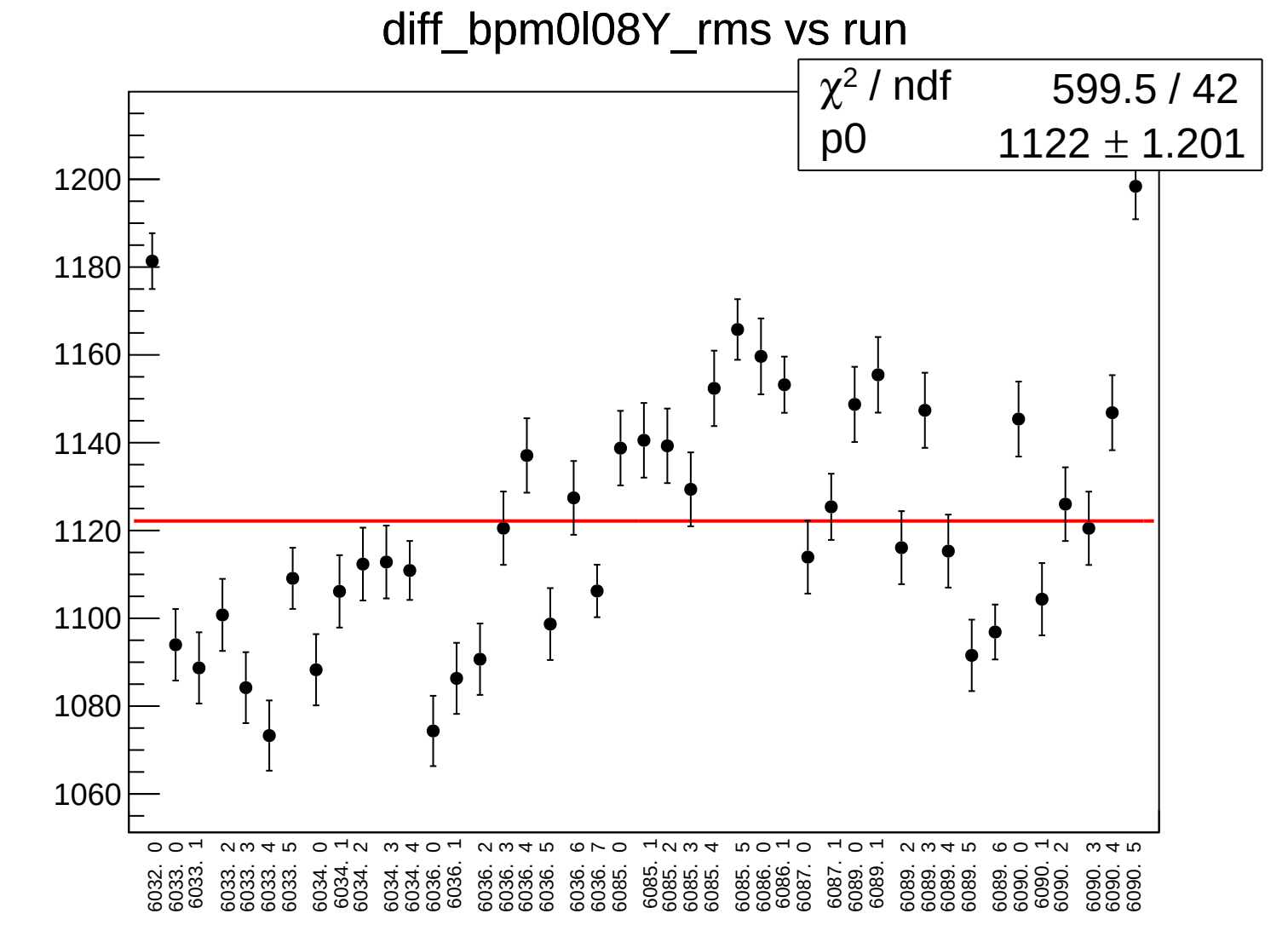

diff_bpm0l08X_mean vs run
χ² / ndf 46.39 / 42
p0 −10.7 ± 10.93
300
200
100
0
−100
−200
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 76.06
Std Dev 0
3
2
1
0
−1
−2

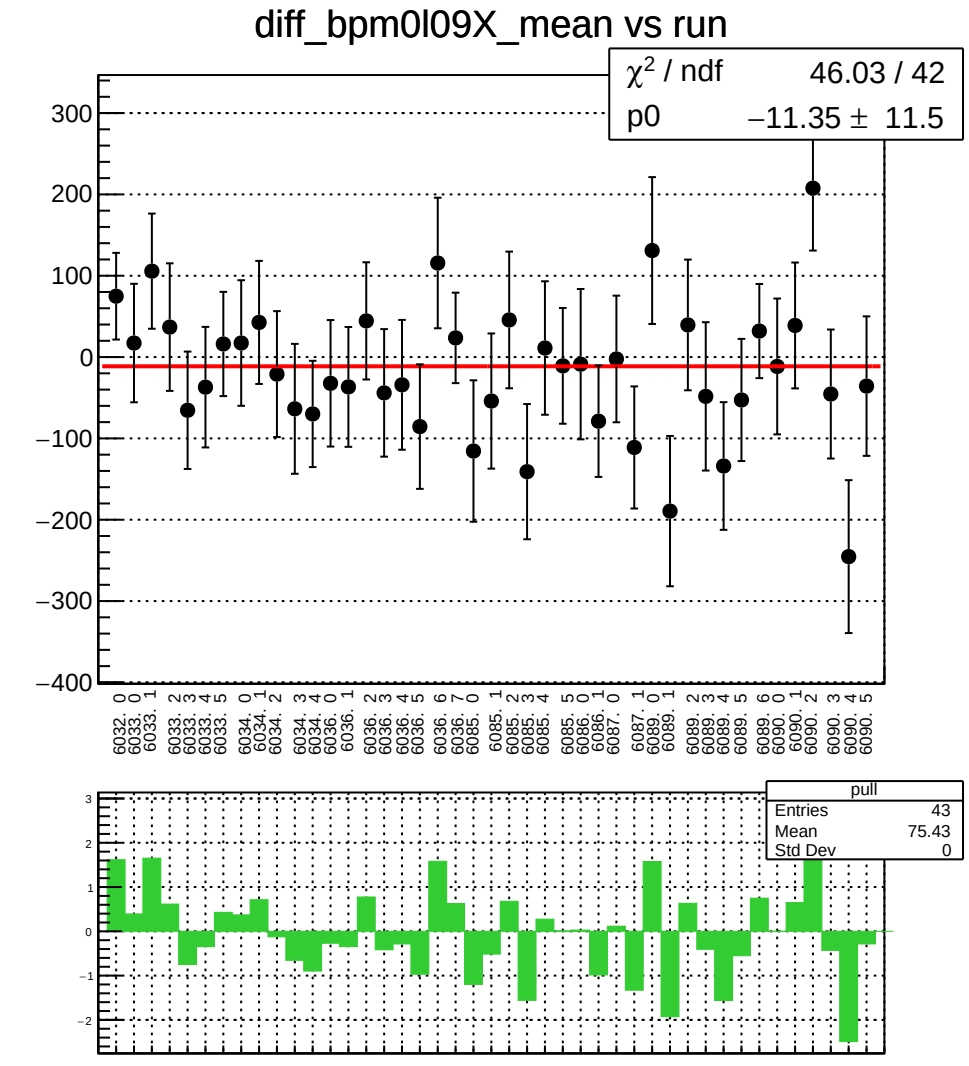

pull1D
Entries 43
Mean −0.04737
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

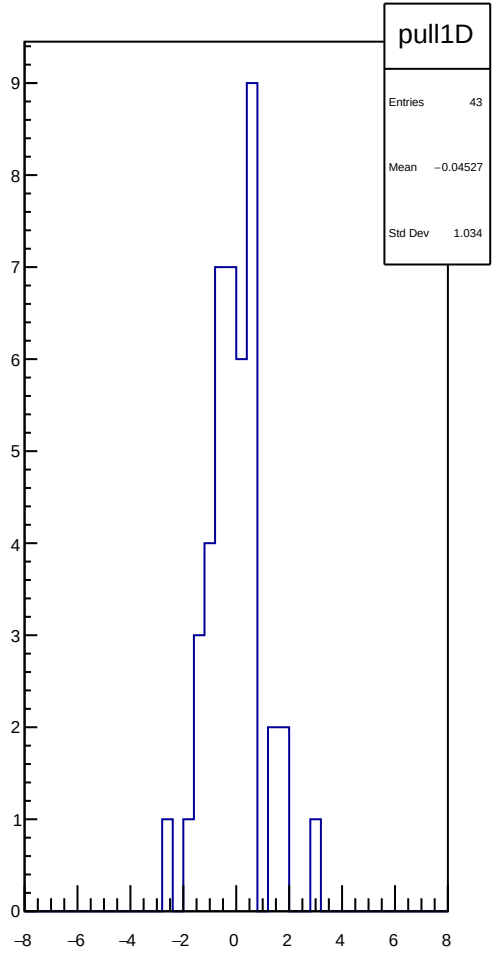

diff_bpm0l08X_rms vs run
χ² / ndf 6286 / 42
p0 7195 ± 7.728
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

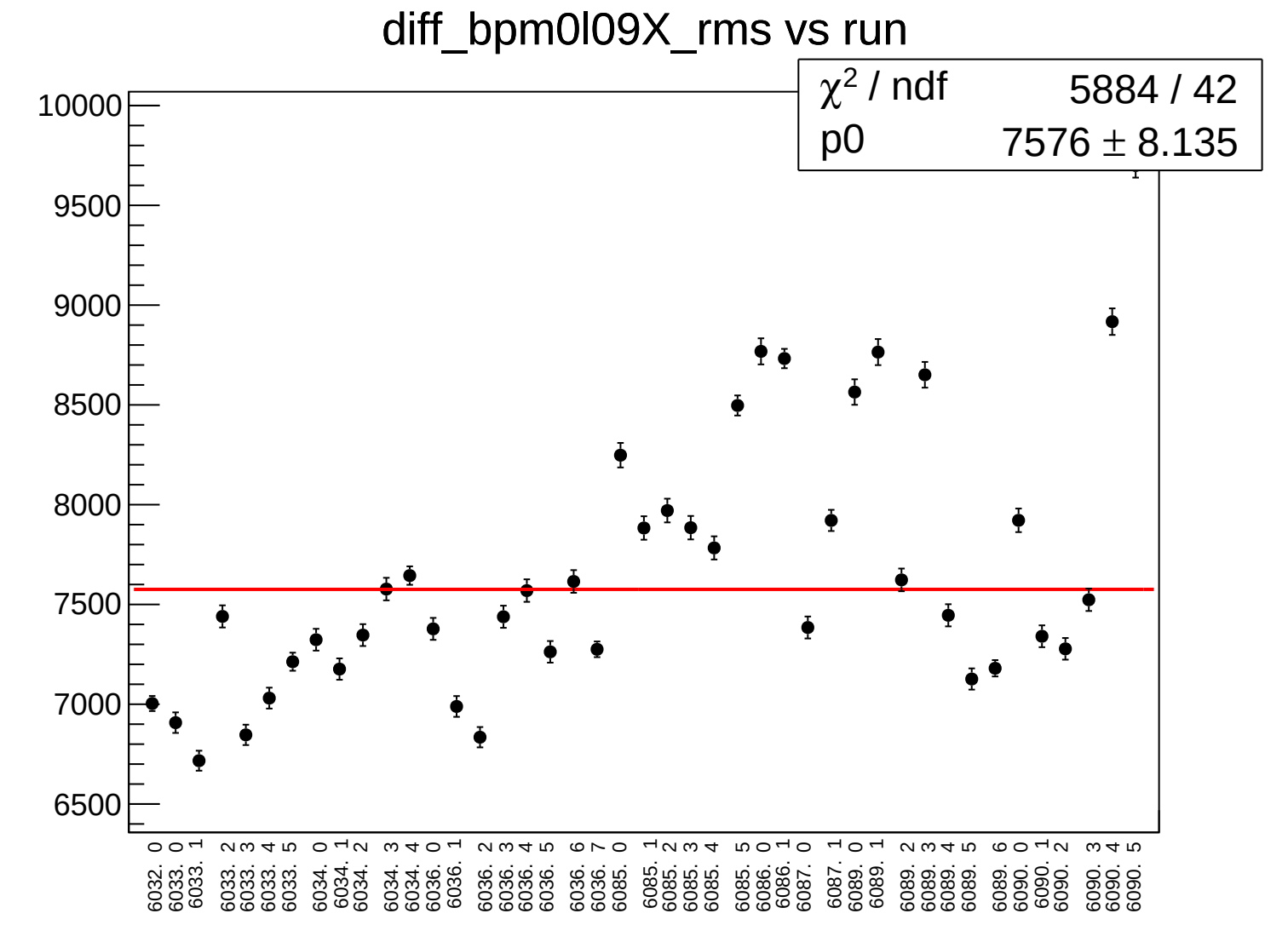

diff_bpm0l08Y_mean vs run
χ² / ndf 41.08 / 42
p0 23.19 ± 1.699
pull
Entries 43
Mean 43.45
Std Dev 29.85

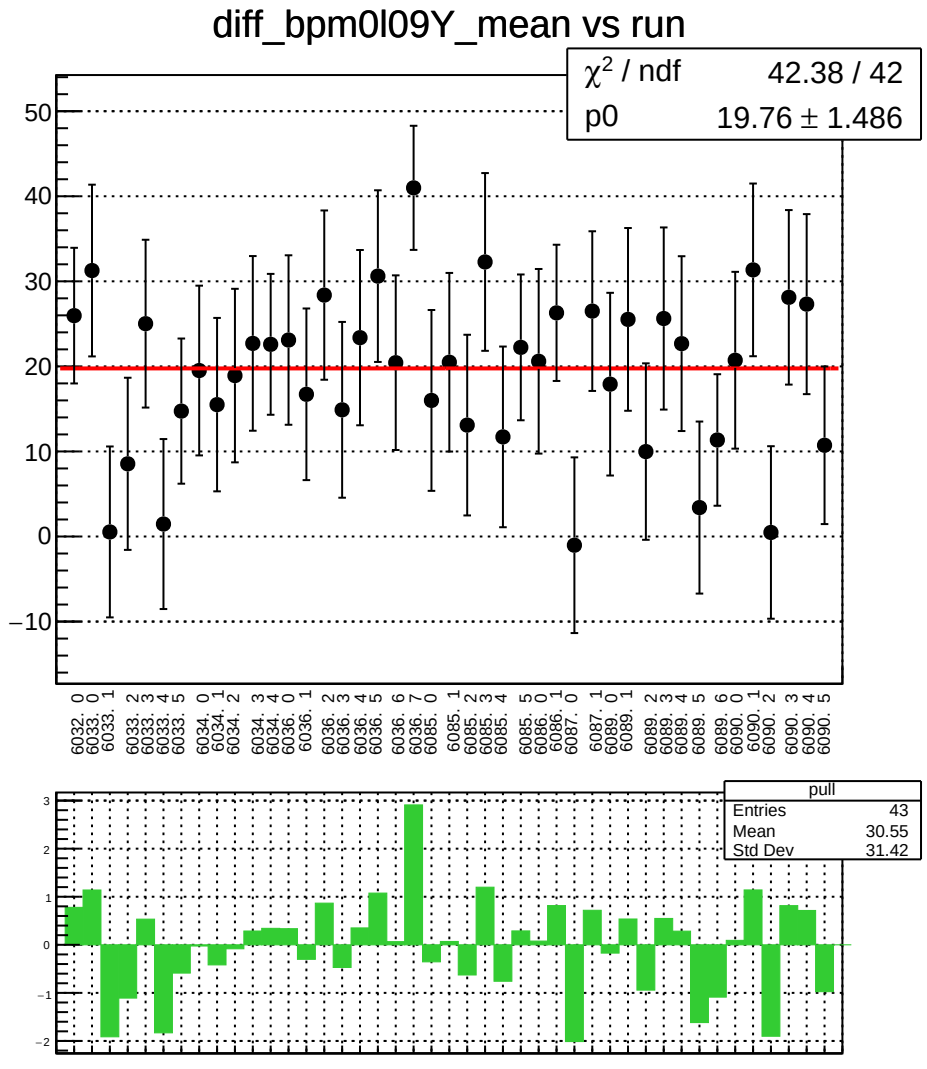

pull1D
Entries 43
Mean −0.02343
Std Dev 0.9771

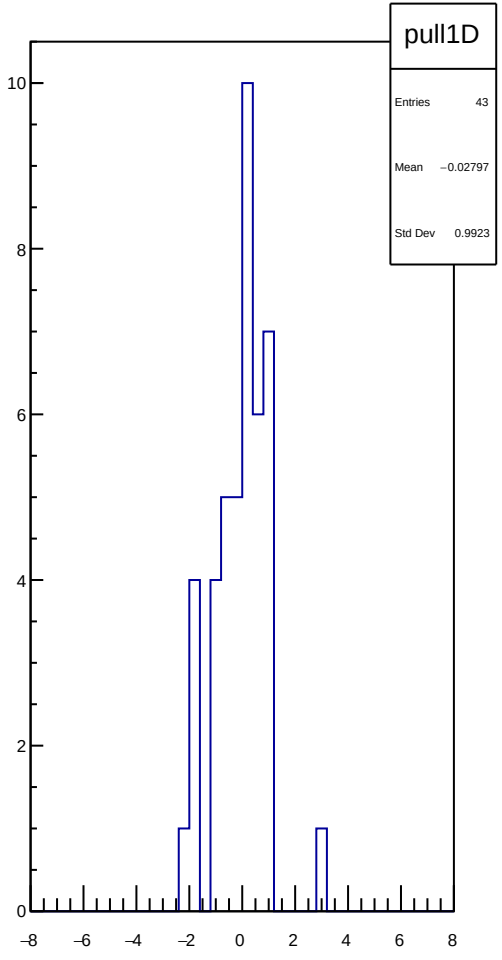

diff_bpm0l08Y_rms vs run
χ² / ndf 599.5 / 42
p0 1122 ± 1.201
1200
1180
1160
1140
1120
1100
1080
1060
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

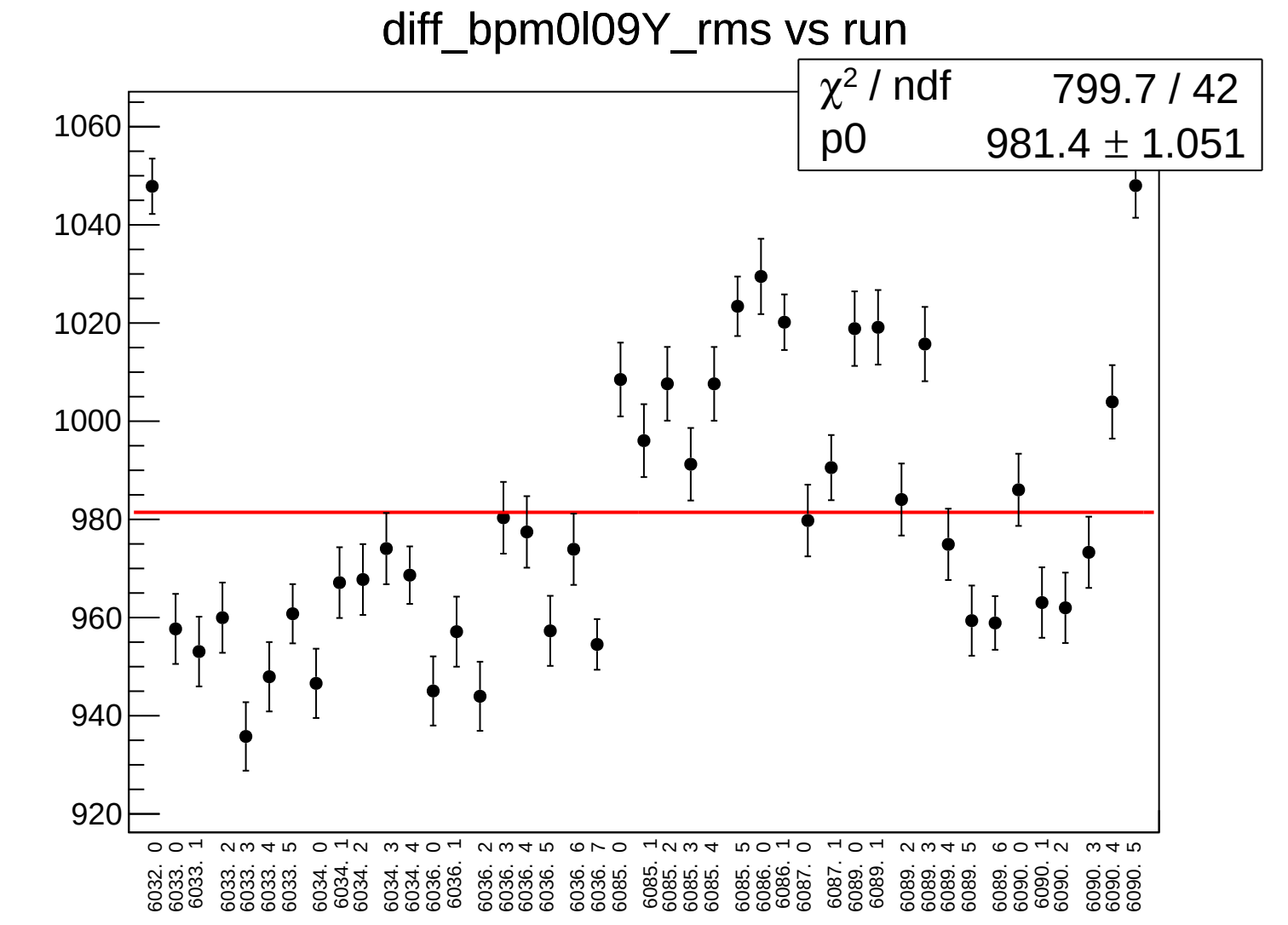

diff_bpm0l09X_mean vs run
χ² / ndf 46.03 / 42
p0 −11.35 ± 11.5
pull
Entries 43
Mean 75.43
Std Dev 0

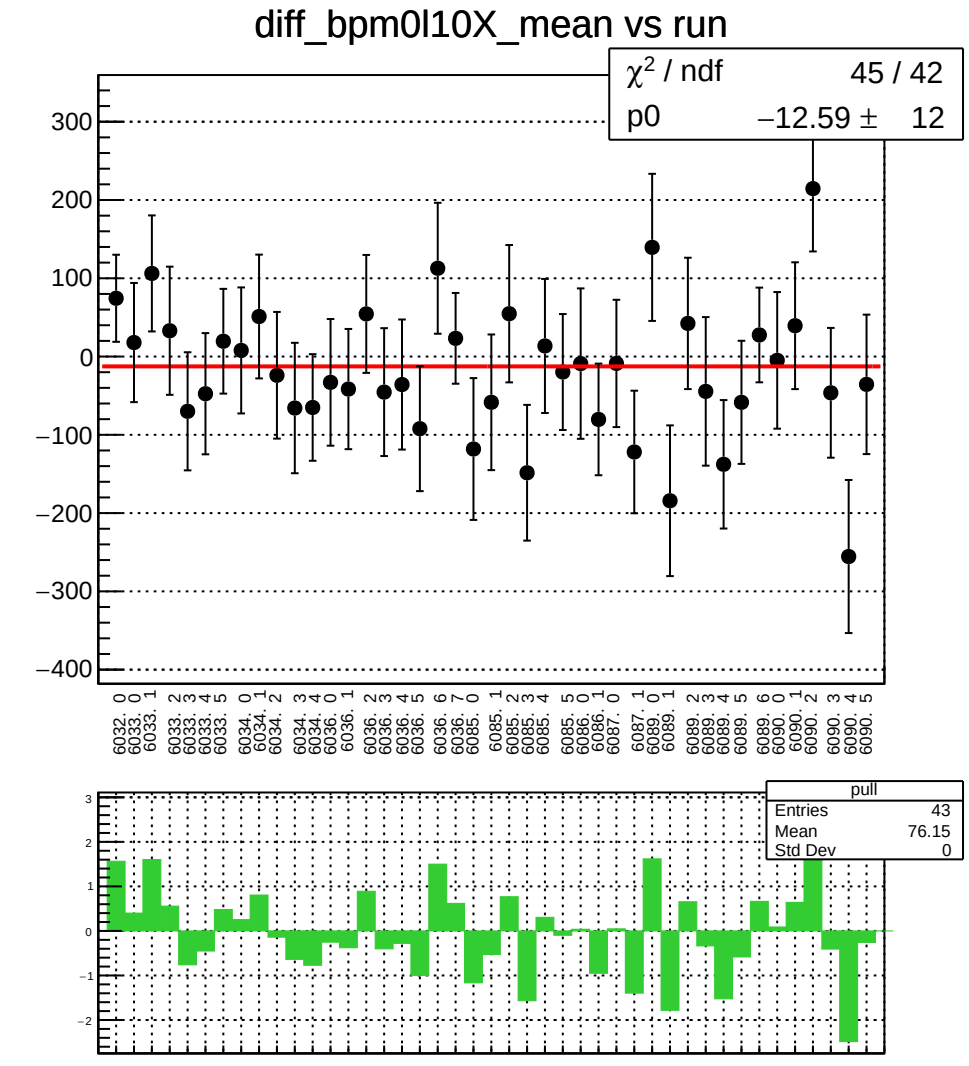

pull1D
Entries 43
Mean −0.04527
Std Dev 1.034

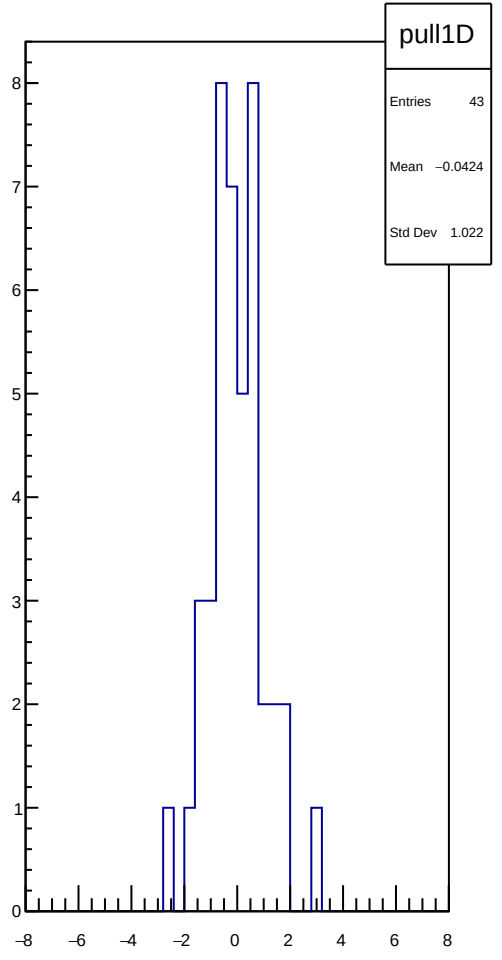

diff_bpm0l09X_rms vs run
χ² / ndf 5884 / 42
p0 7576 ± 8.135
10000
9500
9000
8500
8000
7500
7000
6500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

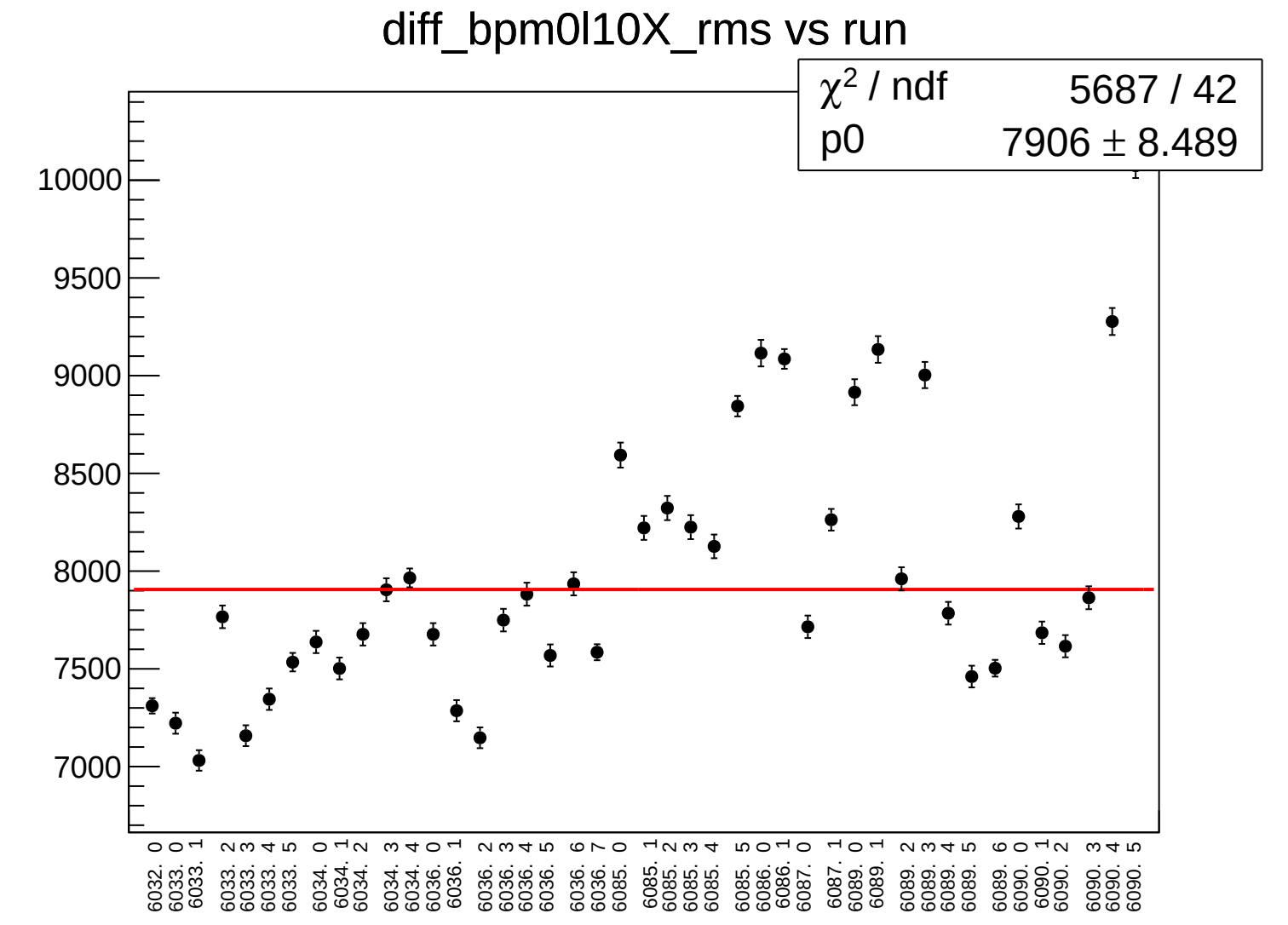

diff_bpm0l09Y_mean vs run
χ² / ndf 42.38 / 42
p0 19.76 ± 1.486
50
40
30
20
10
0
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 30.55
Std Dev 31.42
3
2
1
0
−1
−2

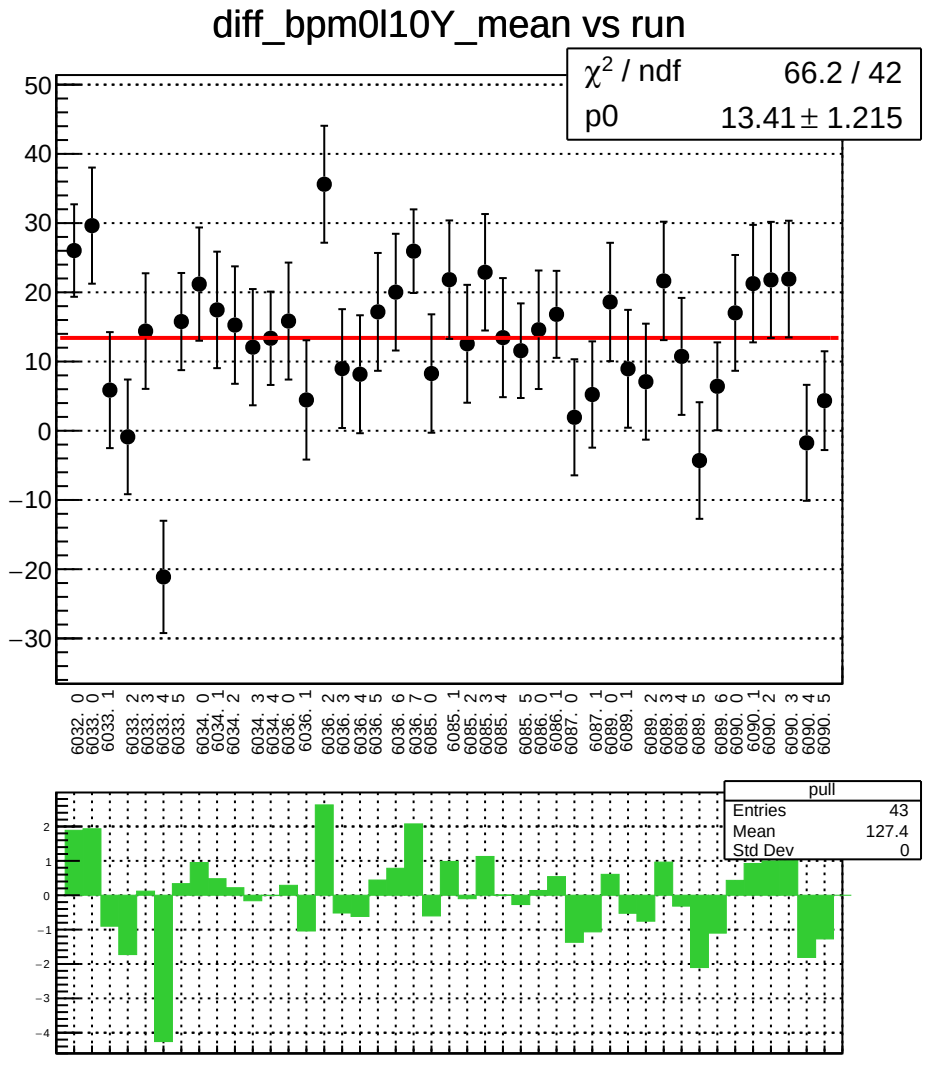

pull1D
Entries 43
Mean −0.02797
Std Dev 0.9923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

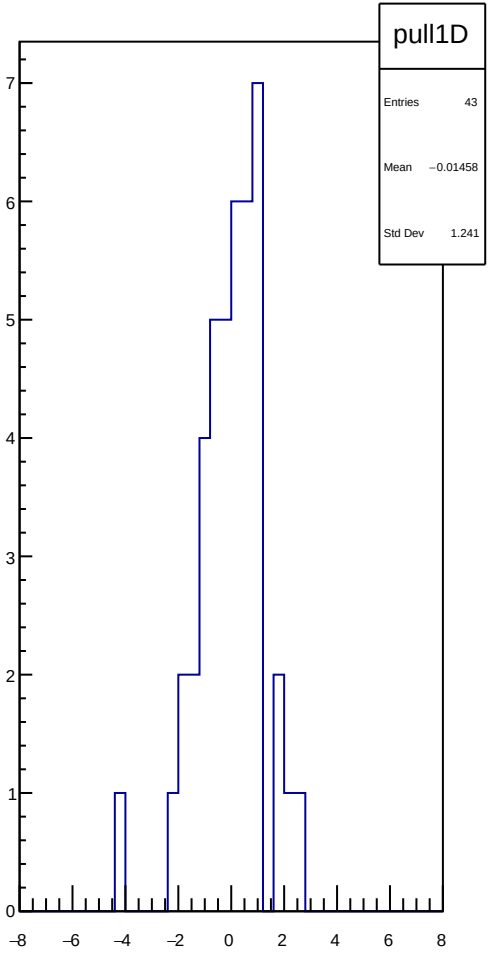

diff_bpm0l09Y_rms vs run
χ² / ndf 799.7 / 42
p0 981.4 ± 1.051
1060
1040
1020
1000
980
960
940
920
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

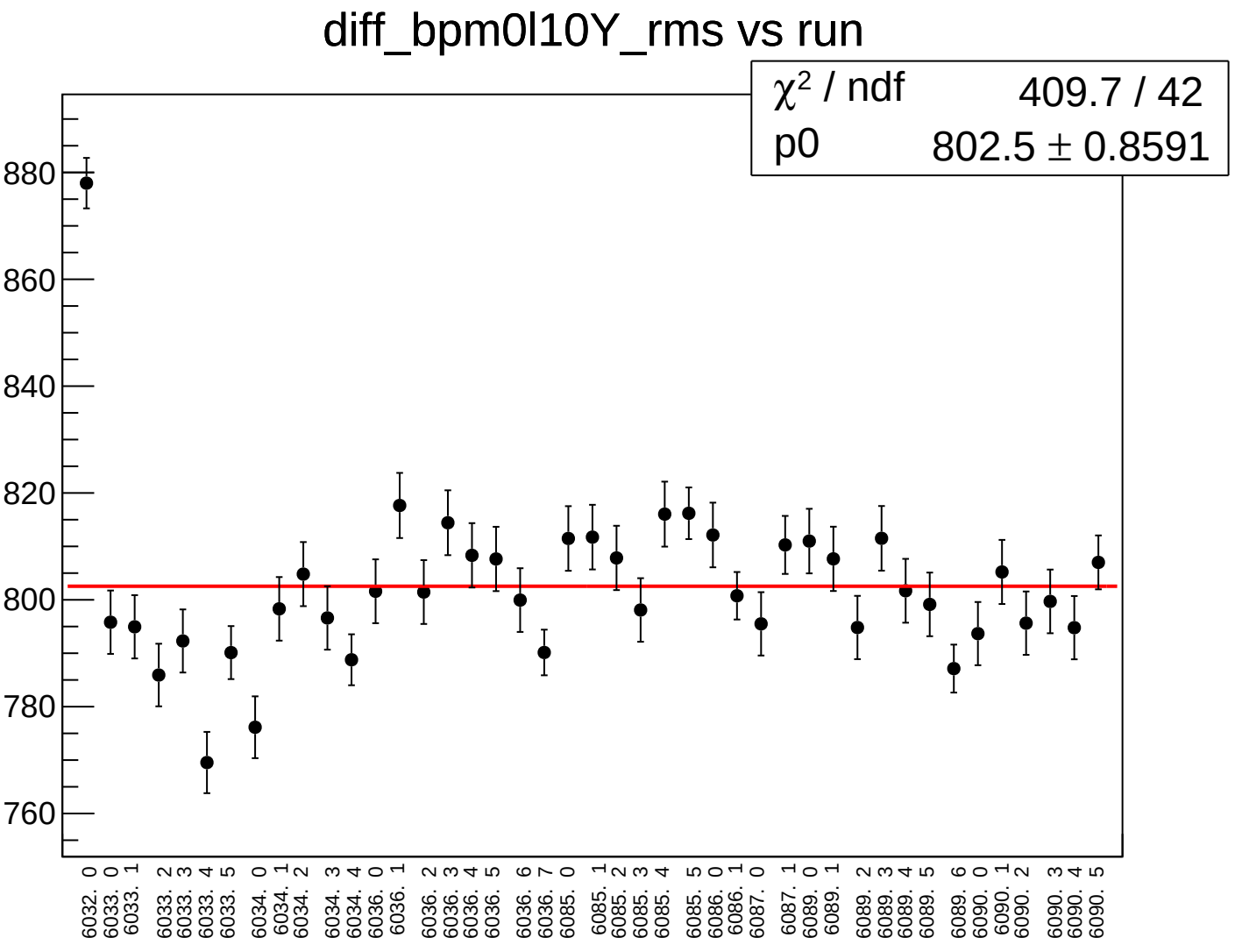

diff_bpm0l10X_mean vs run
χ² / ndf 45 / 42
p0 −12.59 ± 12
pull
Entries 43
Mean 76.15
Std Dev 0

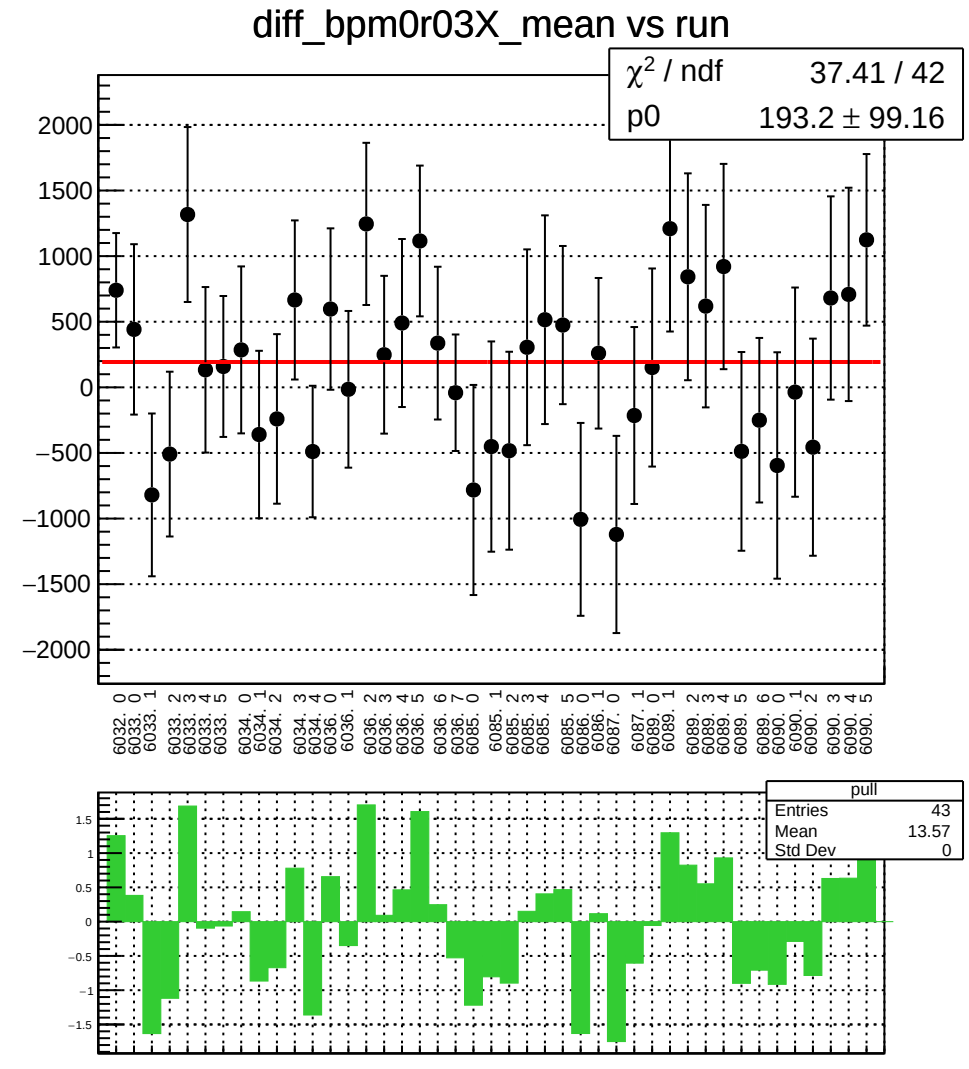

pull1D
Entries 43
Mean −0.0424
Std Dev 1.022

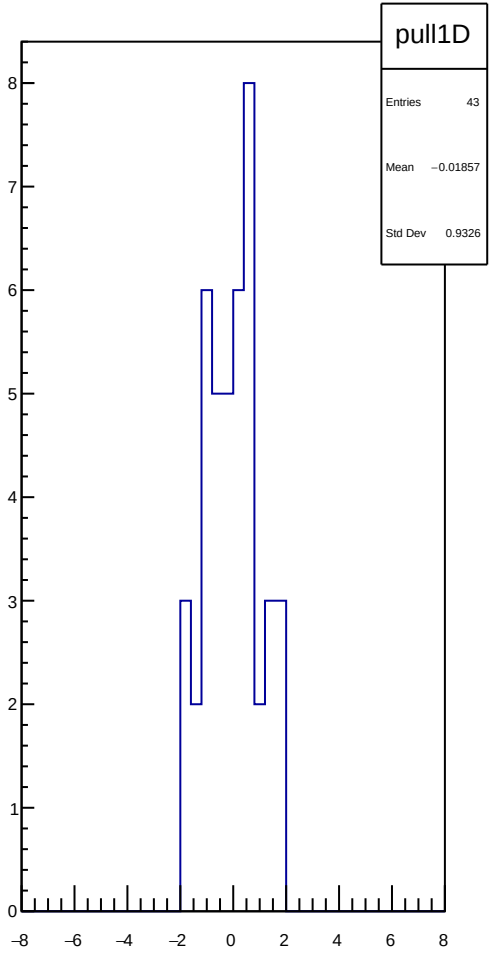

diff_bpm0l10X_rms vs run
χ² / ndf 5687 / 42
p0 7906 ± 8.489
10000
9500
9000
8500
8000
7500
7000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

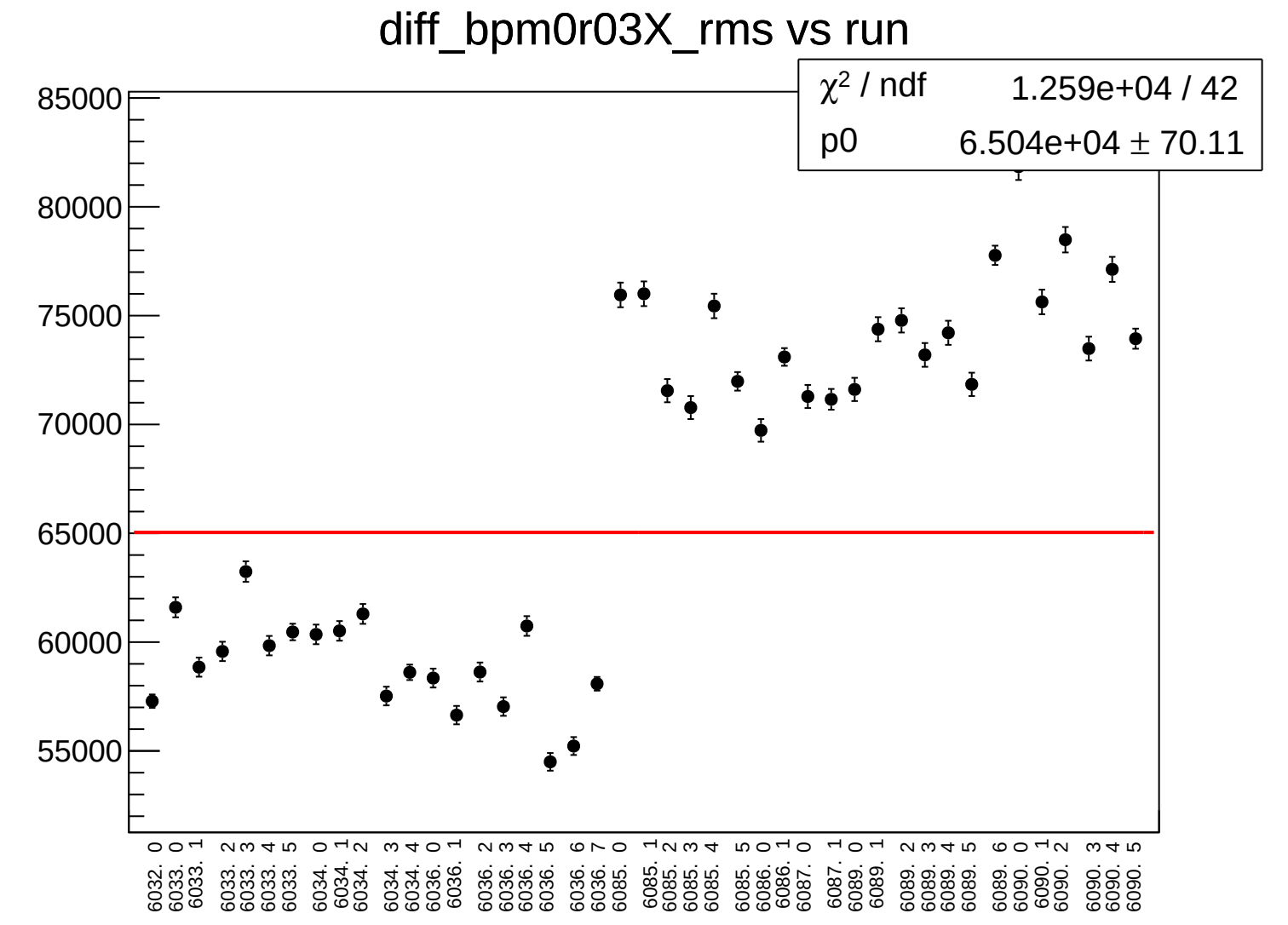

diff_bpm0l10Y_mean vs run
χ² / ndf 66.2 / 42
p0 13.41 ± 1.215
pull
Entries 43
Mean 127.4
Std Dev 0

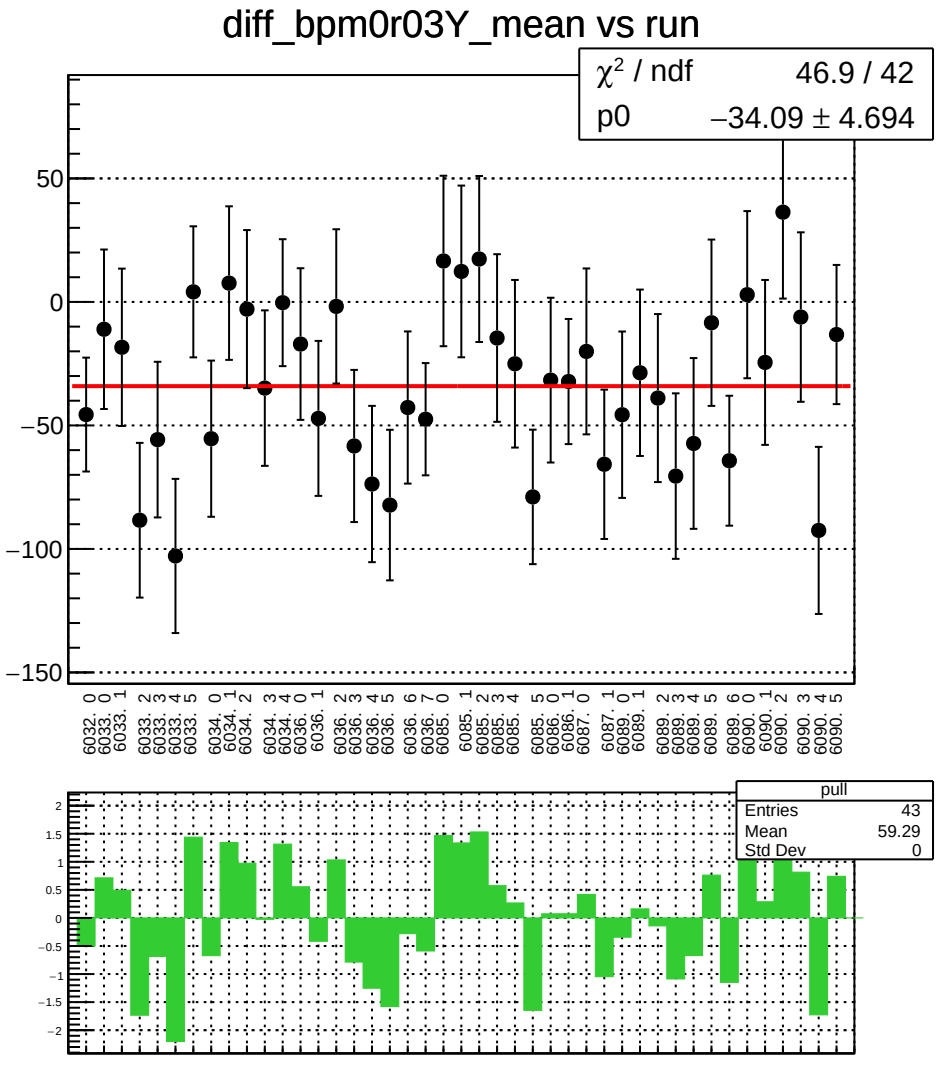

pull1D
Entries 43
Mean −0.01458
Std Dev 1.241

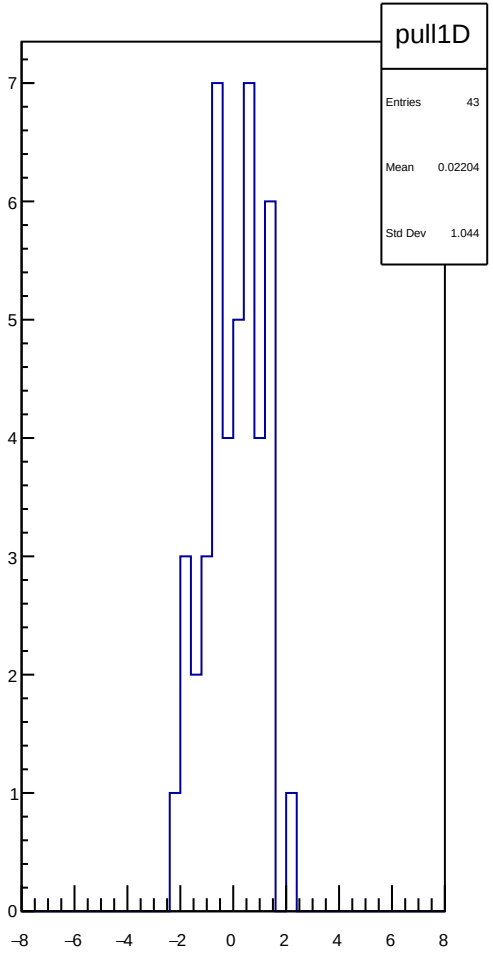

diff_bpm0l10Y_rms vs run
χ² / ndf 409.7 / 42
p0 802.5 ± 0.8591
880
860
840
820
800
780
760
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

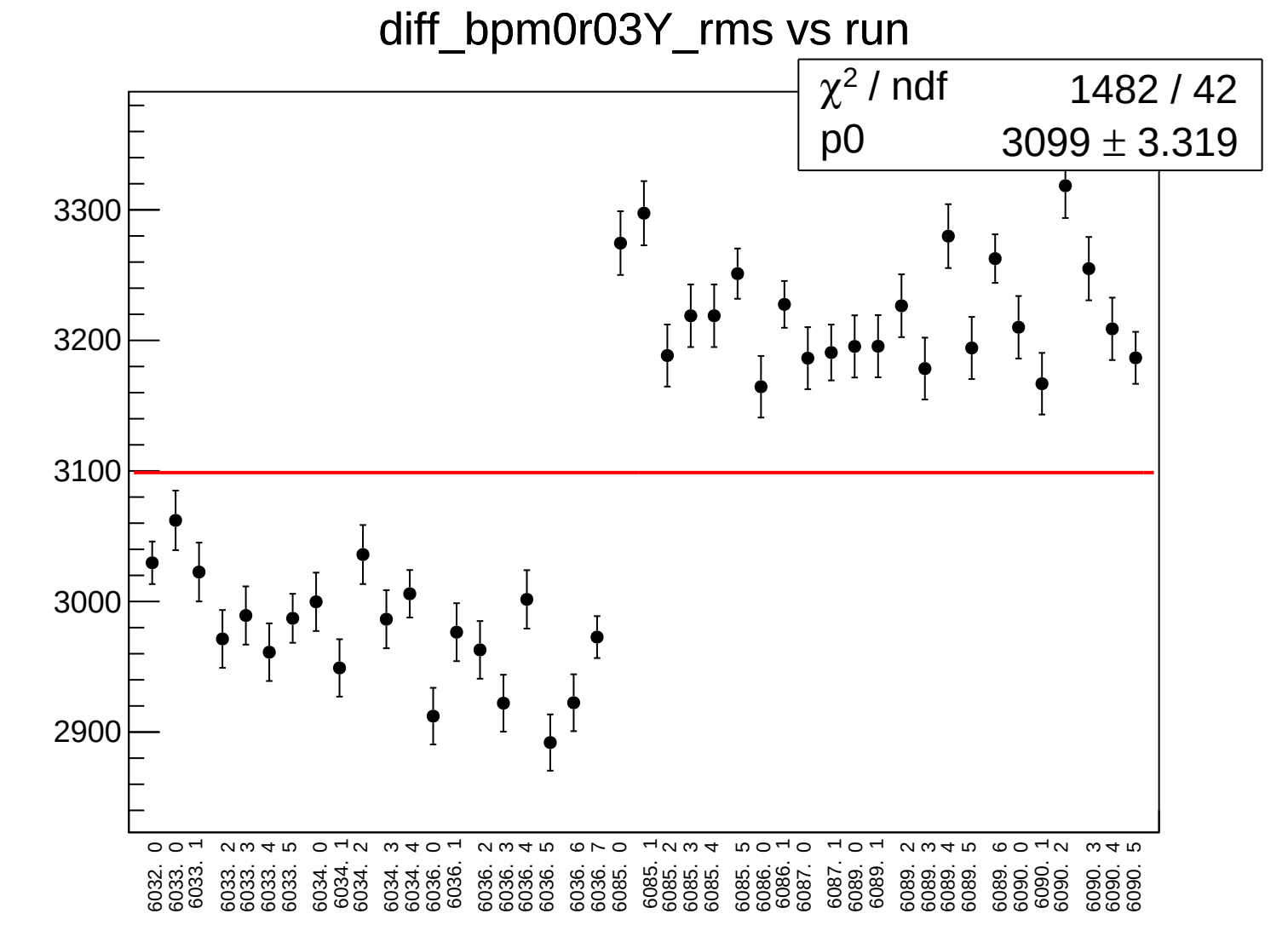

diff_bpm0r03X_mean vs run
χ^2 / ndf 37.41 / 42
p0 193.2 ± 99.16
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

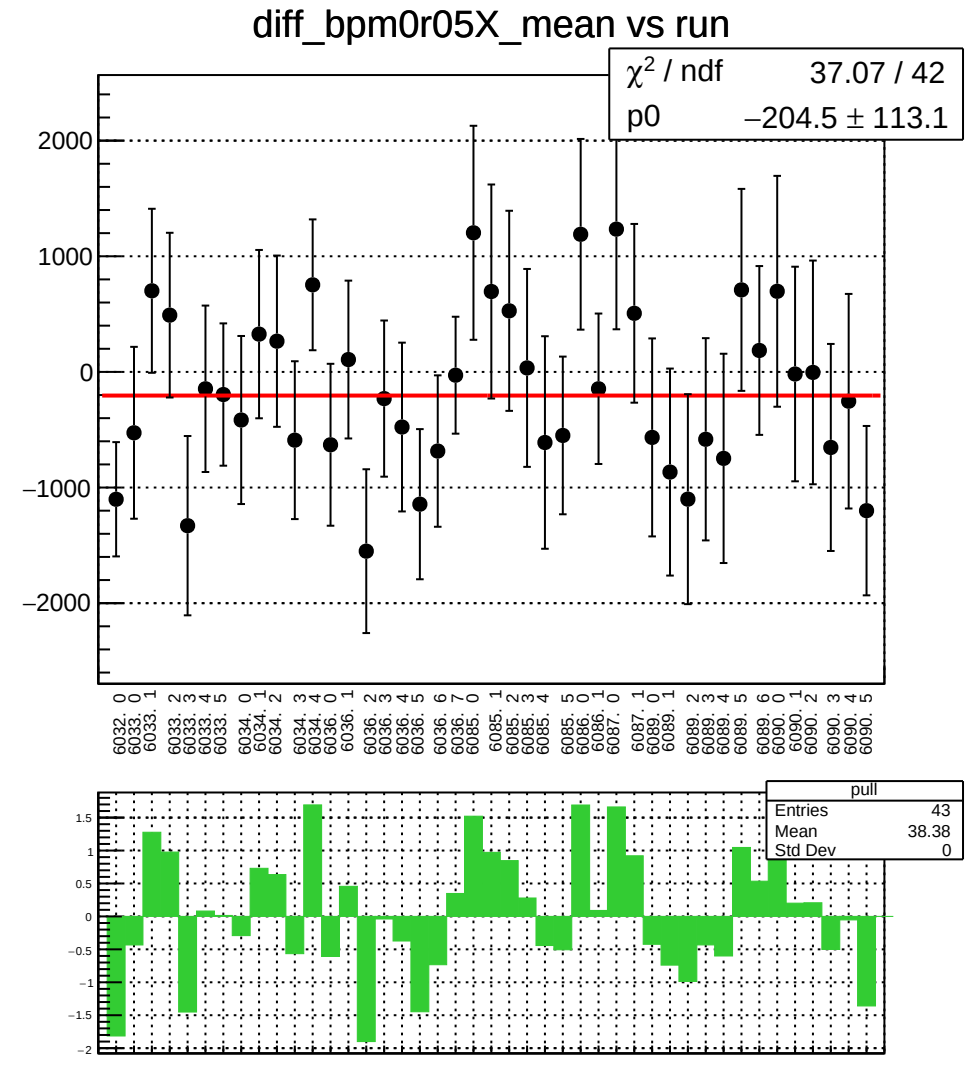

pull1D
Entries 43
Mean −0.01857
Std Dev 0.9326
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

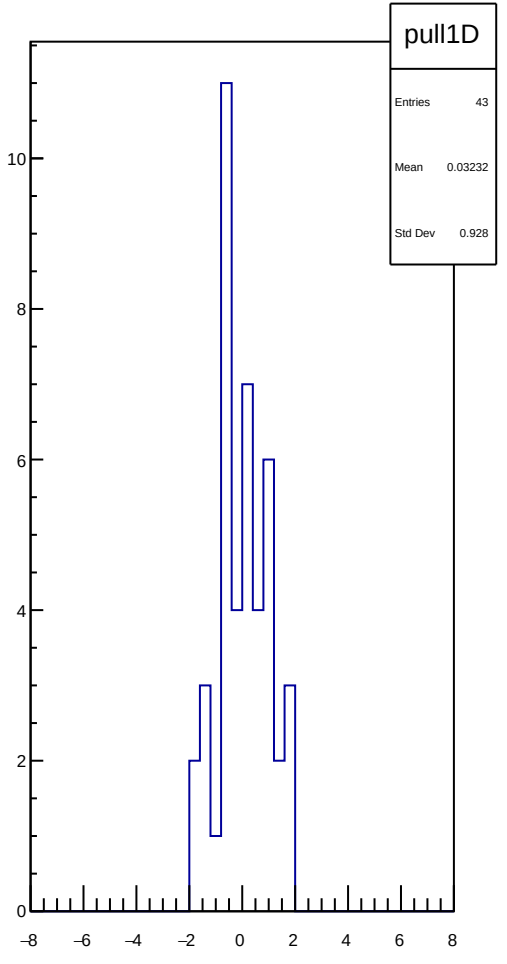

diff_bpm0r03X_rms vs run
χ² / ndf 1.259e+04 / 42
p0 6.504e+04 ± 70.11
85000
80000
75000
70000
65000
60000
55000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

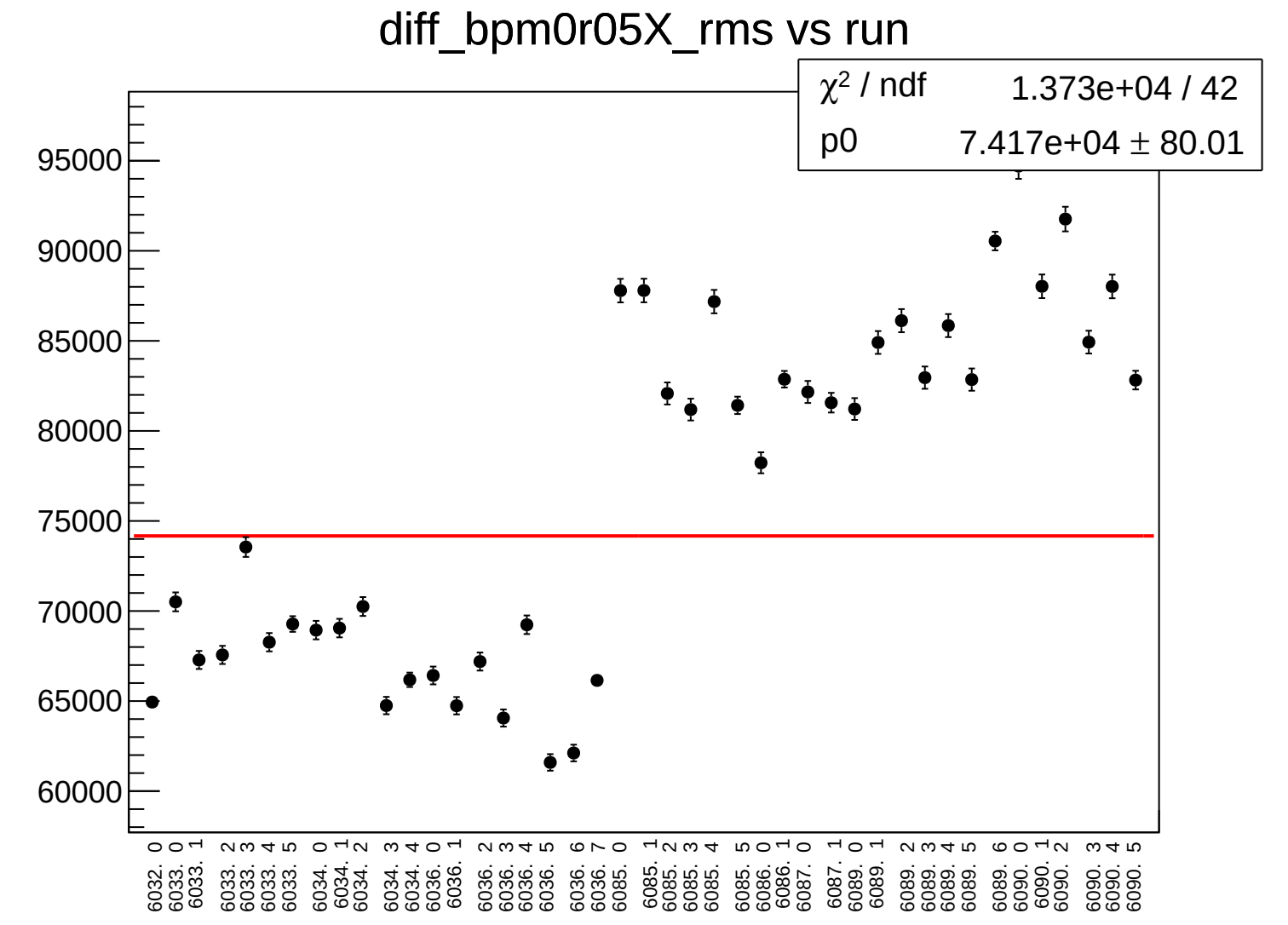

diff_bpm0r03Y_mean vs run
χ² / ndf 46.9 / 42
p0 −34.09 ± 4.694
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 59.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

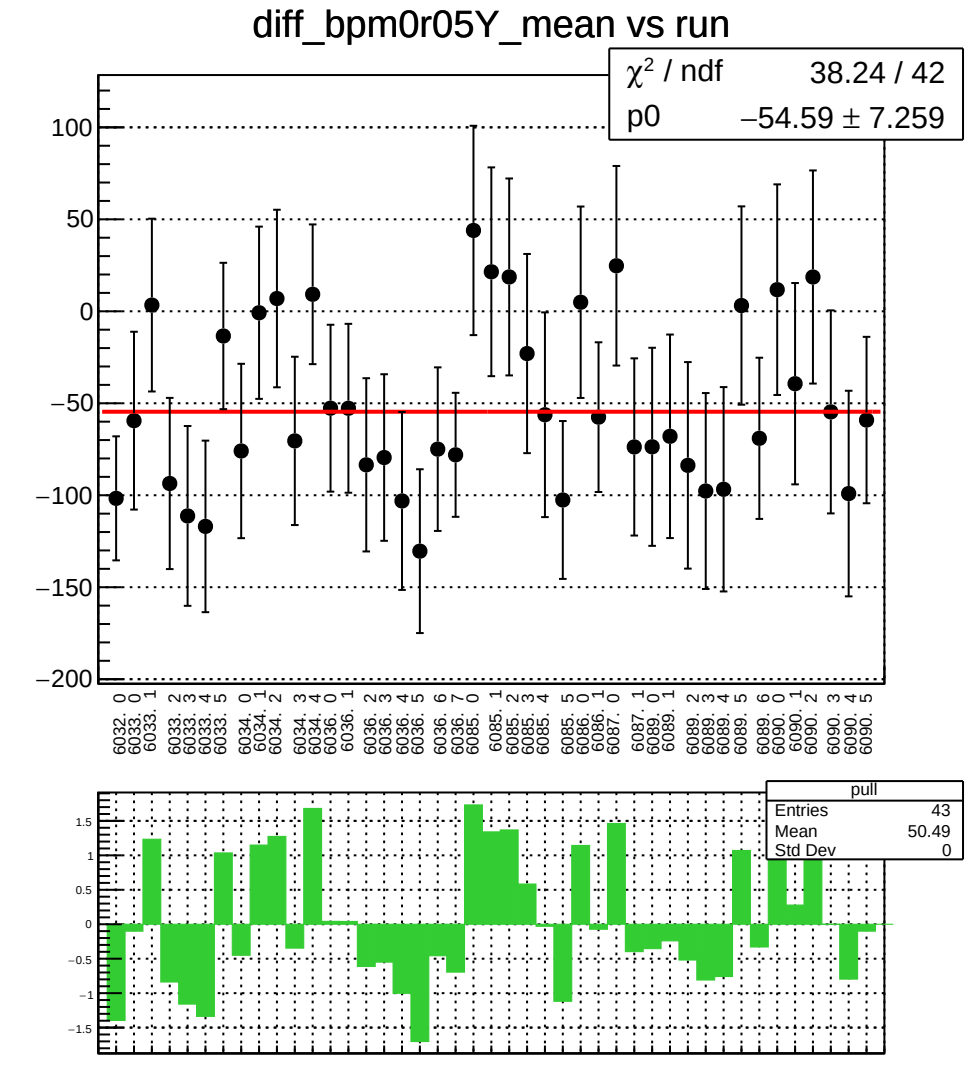

pull1D
Entries 43
Mean 0.02204
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

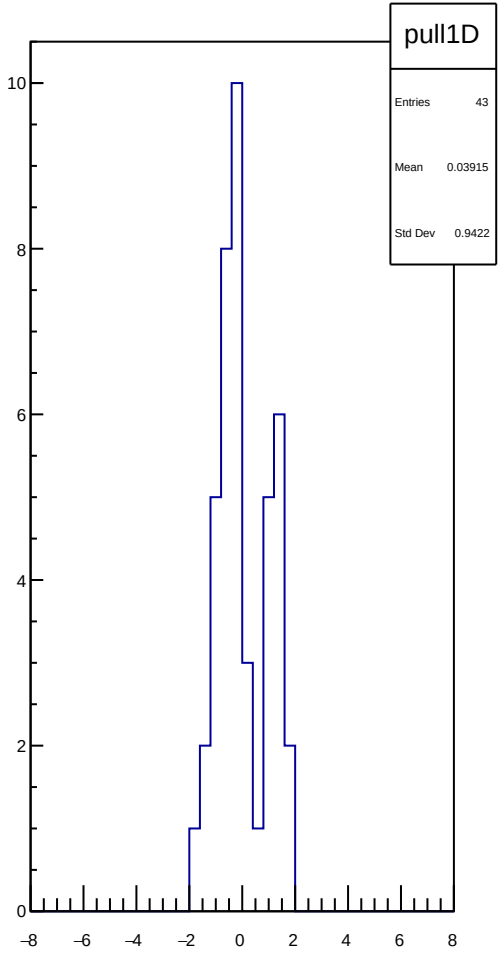

diff_bpm0r03Y_rms vs run
χ² / ndf 1482 / 42
p0 3099 ± 3.319
3300
3200
3100
3000
2900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

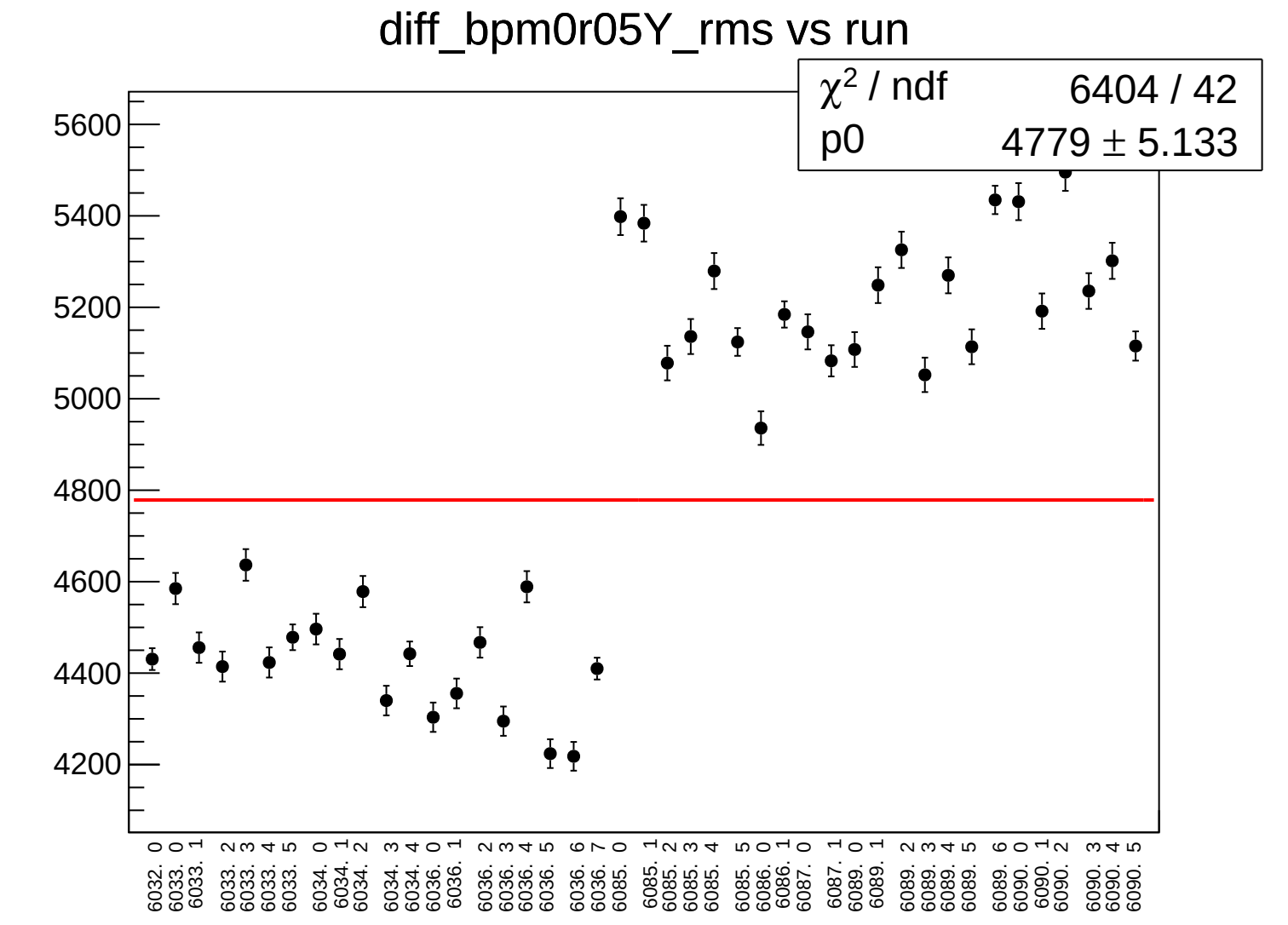

diff_bpm0r05X_mean vs run
χ² / ndf 37.07 / 42
p0 −204.5 ± 113.1
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 38.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

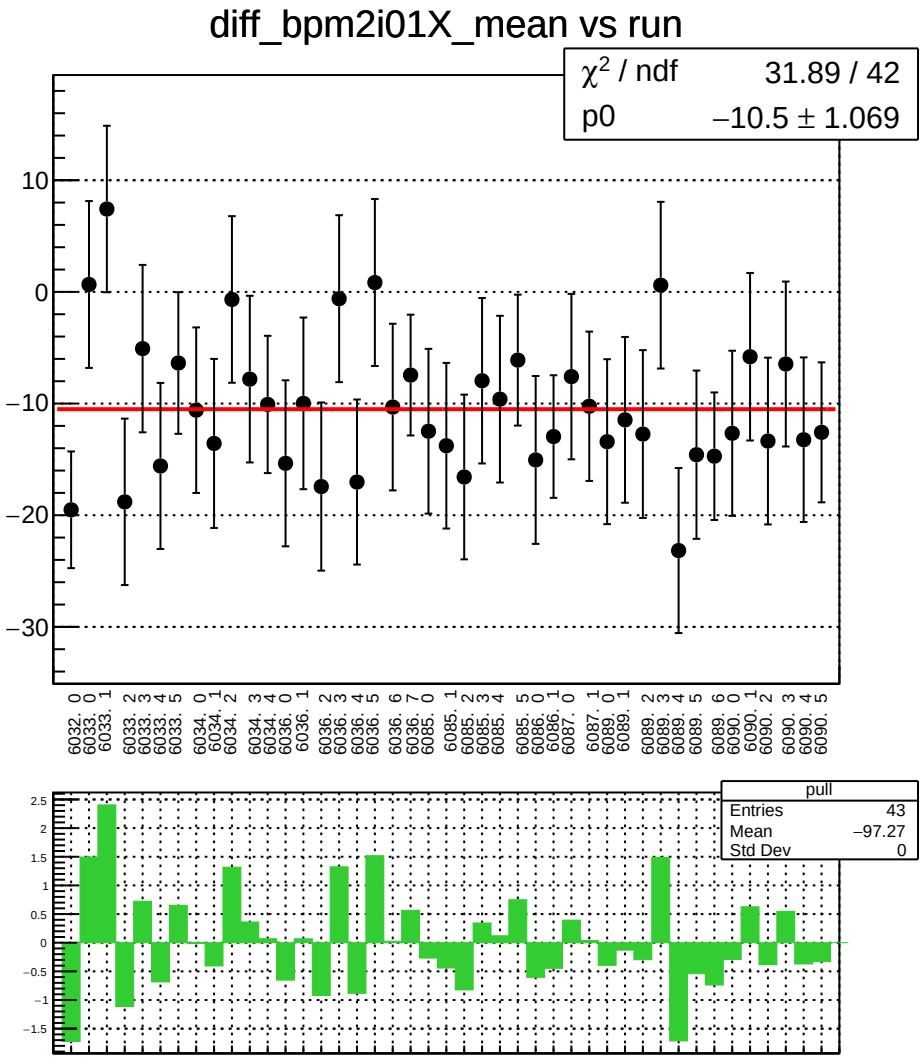

pull1D
Entries 43
Mean 0.03232
Std Dev 0.928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

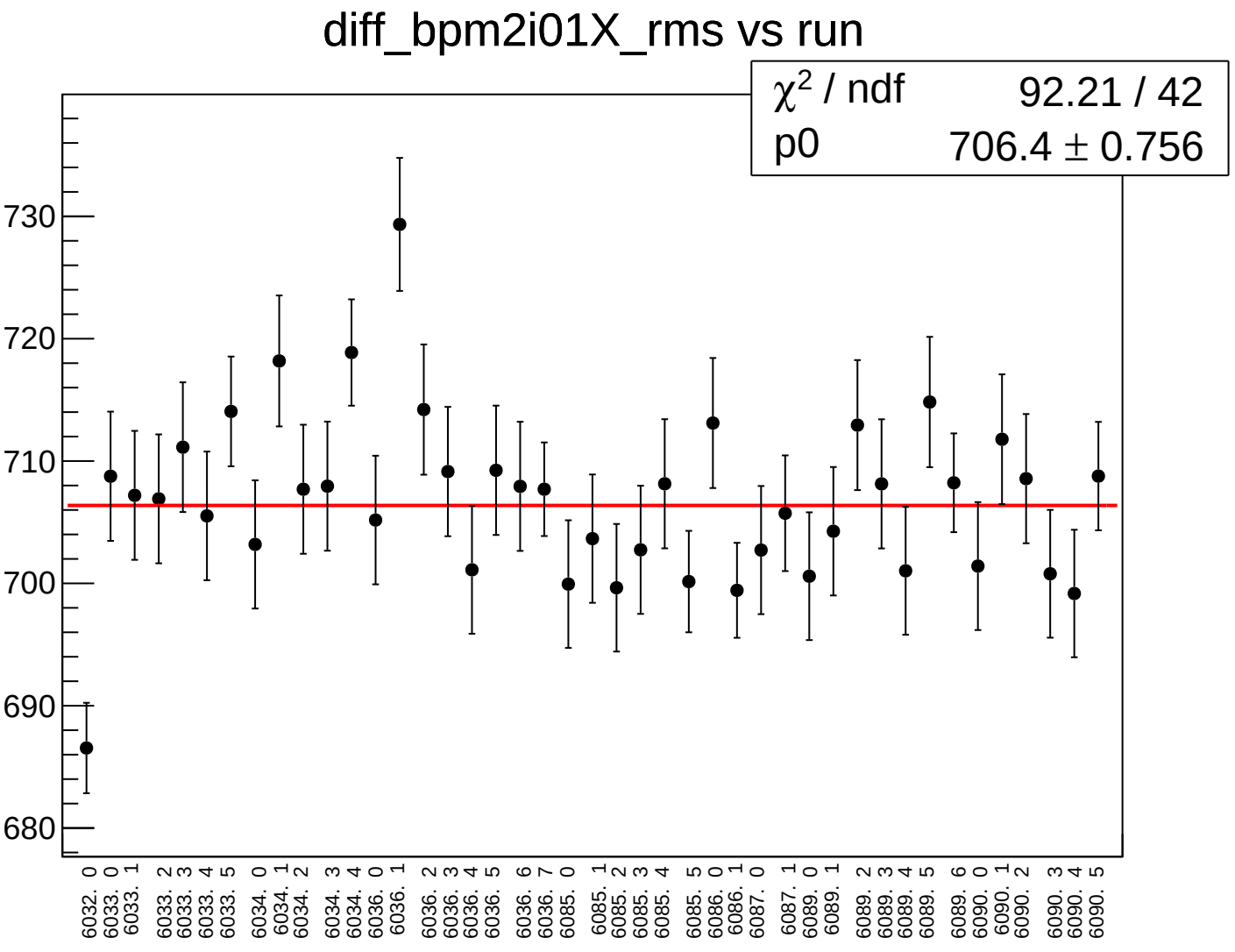

diff_bpm0r05X_rms vs run
χ² / ndf 1.373e+04 / 42
p0 7.417e+04 ± 80.01
95000
90000
85000
80000
75000
70000
65000
60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

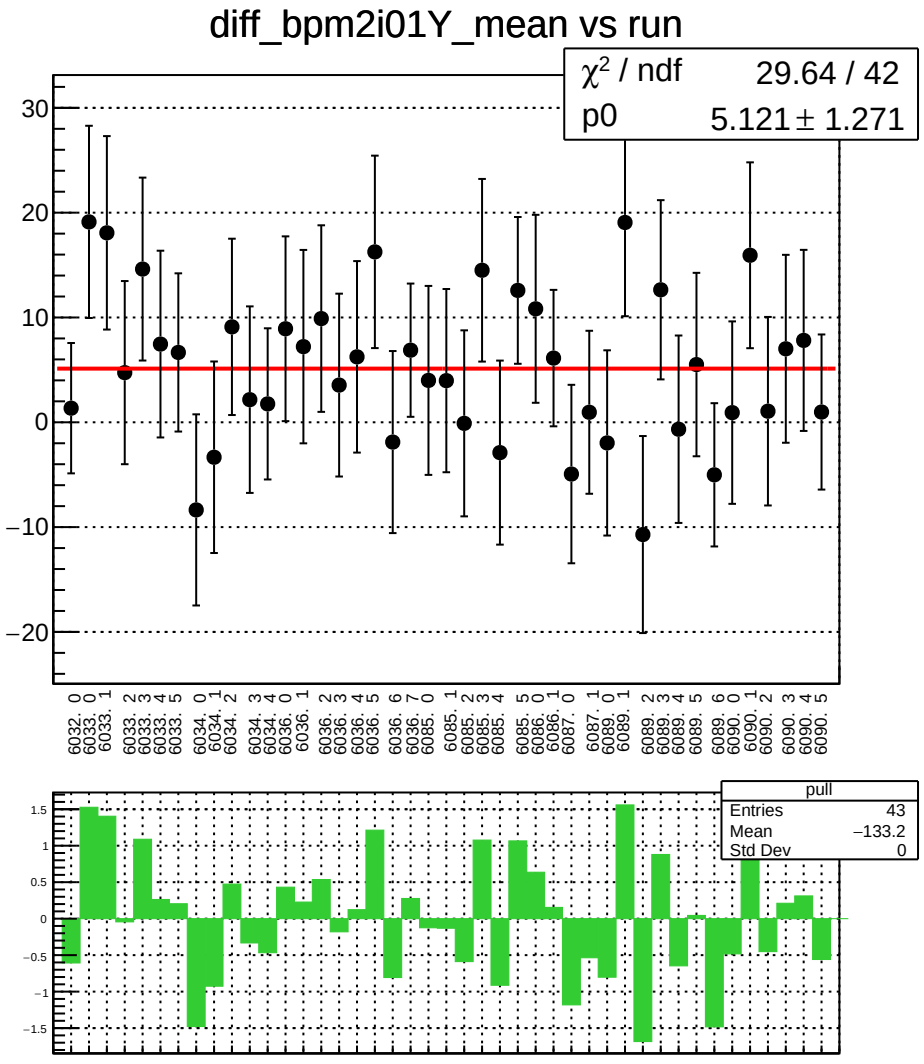

diff_bpm0r05Y_mean vs run
χ² / ndf 38.24 / 42
p0 −54.59 ± 7.259
100
50
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 50.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

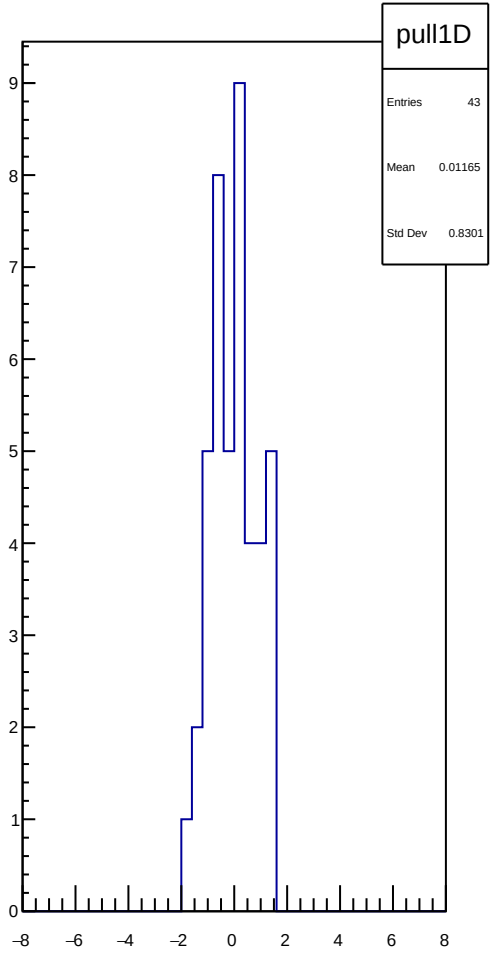

pull1D
Entries 43
Mean 0.03915
Std Dev 0.9422
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

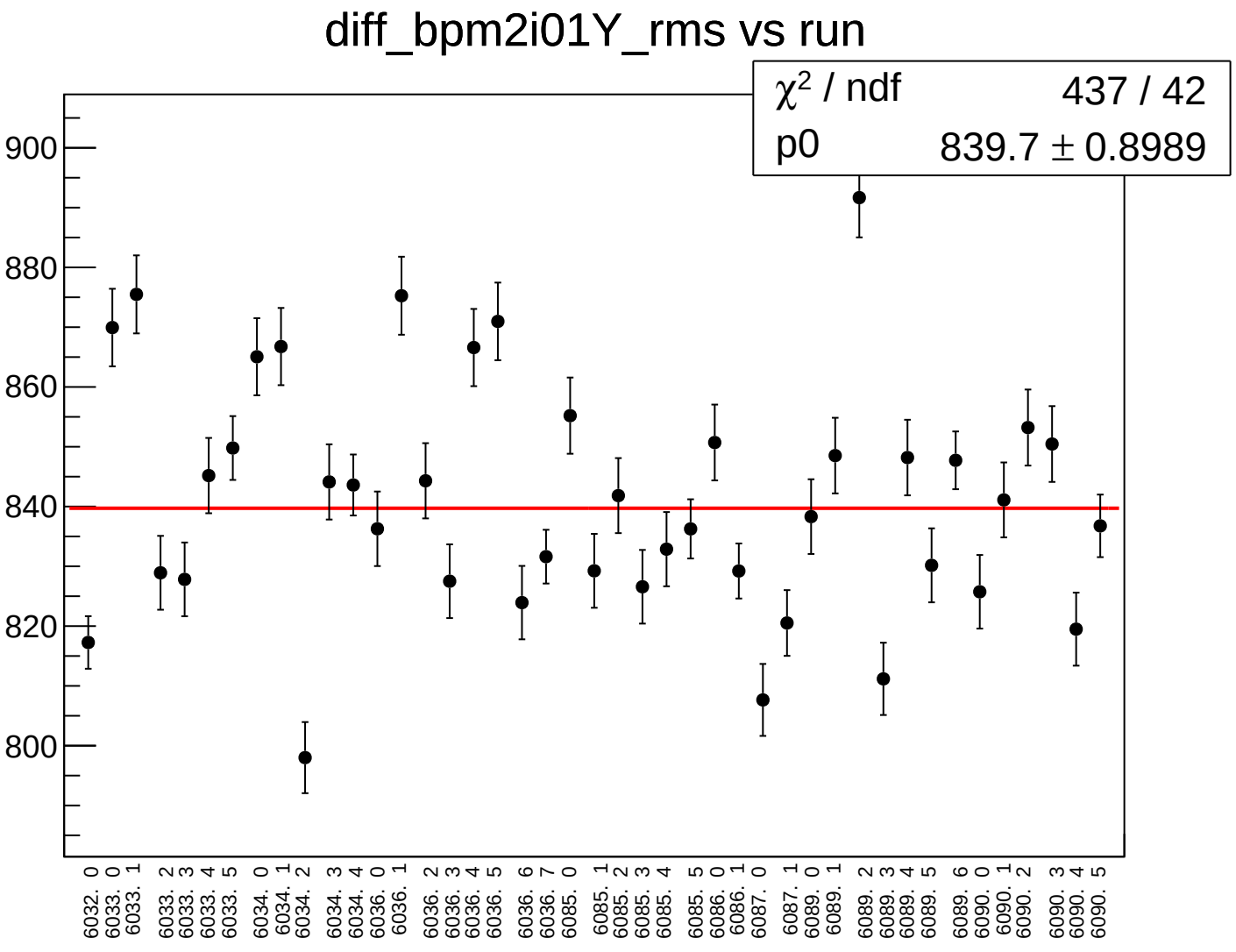

diff_bpm0r05Y_rms vs run
χ² / ndf 6404 / 42
p0 4779 ± 5.133
5600
5400
5200
5000
4800
4600
4400
4200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

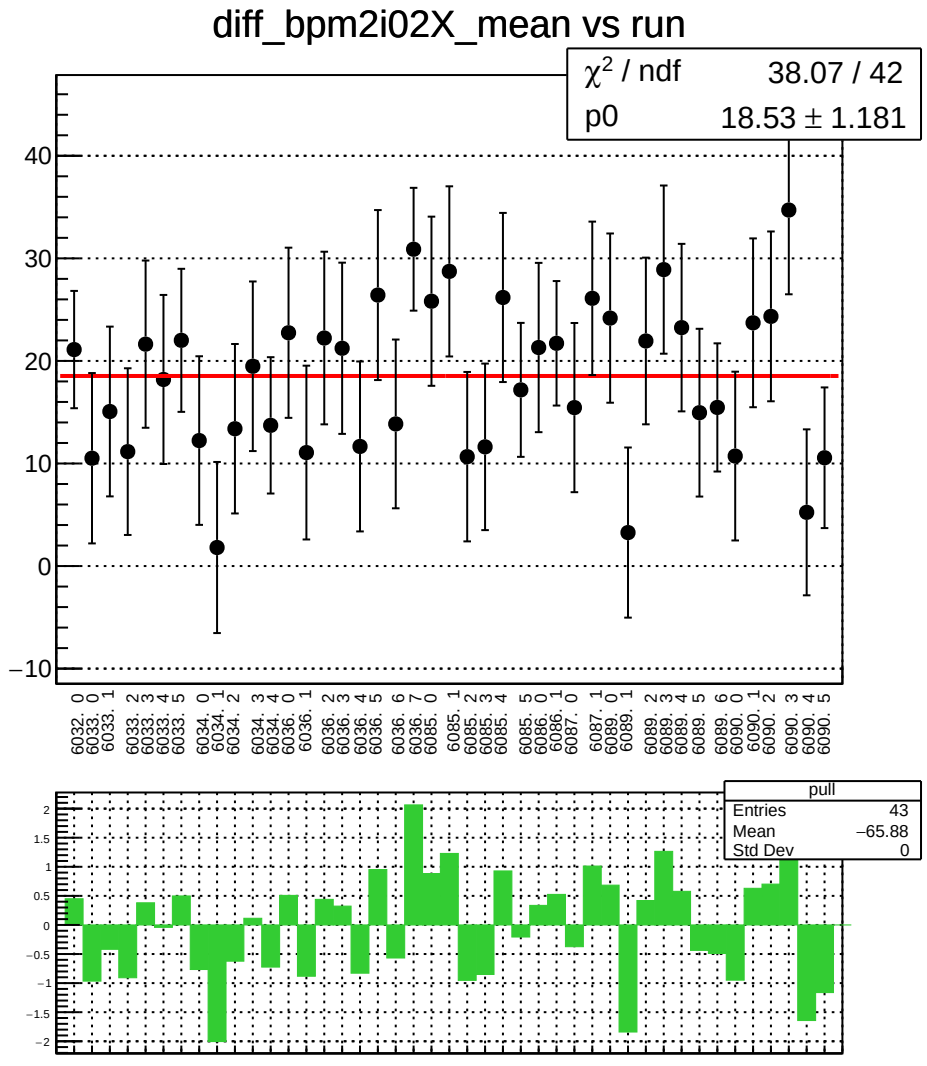

diff_bpm2i01X_mean vs run
χ² / ndf 31.89 / 42
p0 −10.5 ± 1.069
10
0
−10
−20
−30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −97.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0156
Std Dev 0.861
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

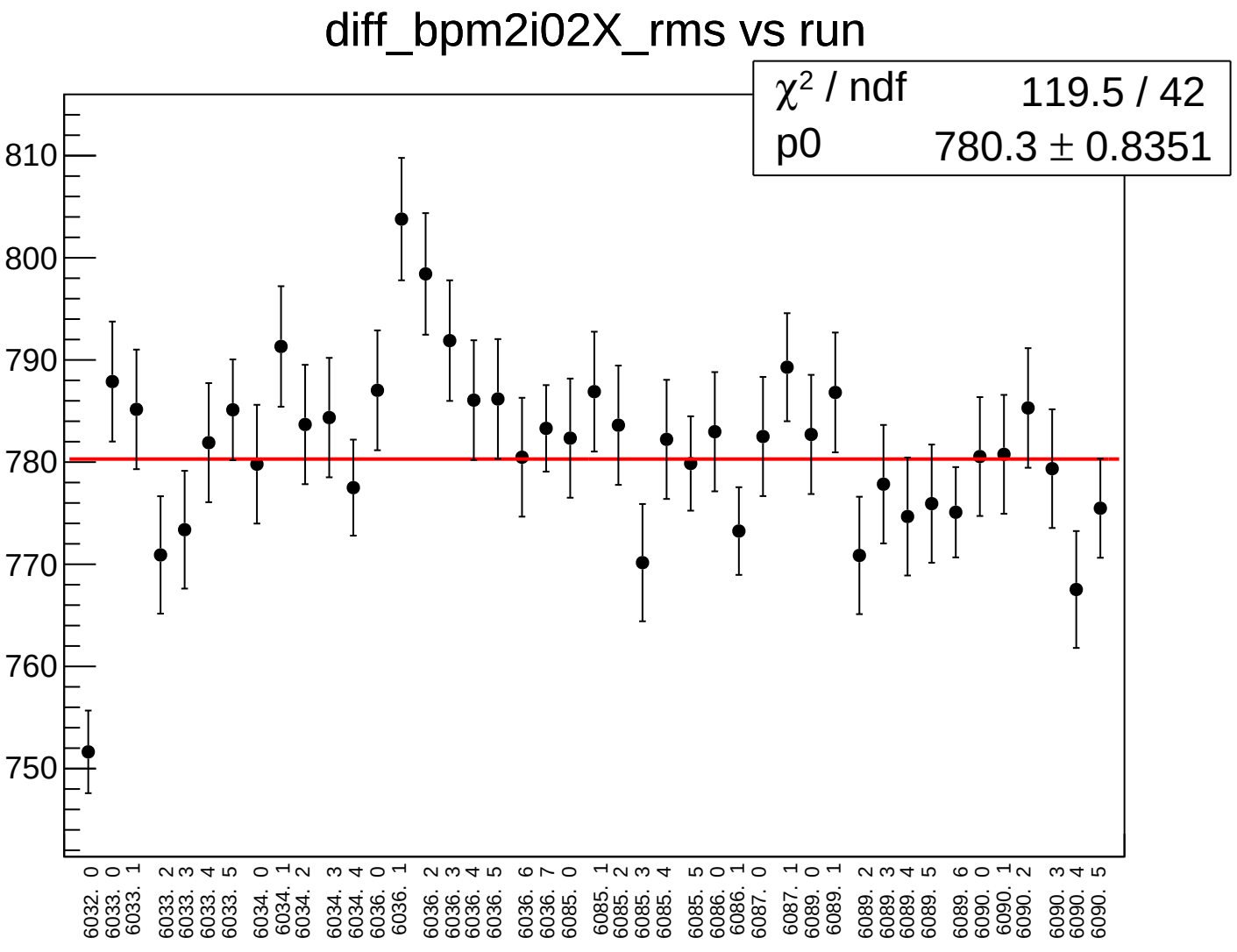

diff_bpm2i01X_rms vs run
χ² / ndf 92.21 / 42
p0 706.4 ± 0.756
730
720
710
700
690
680
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

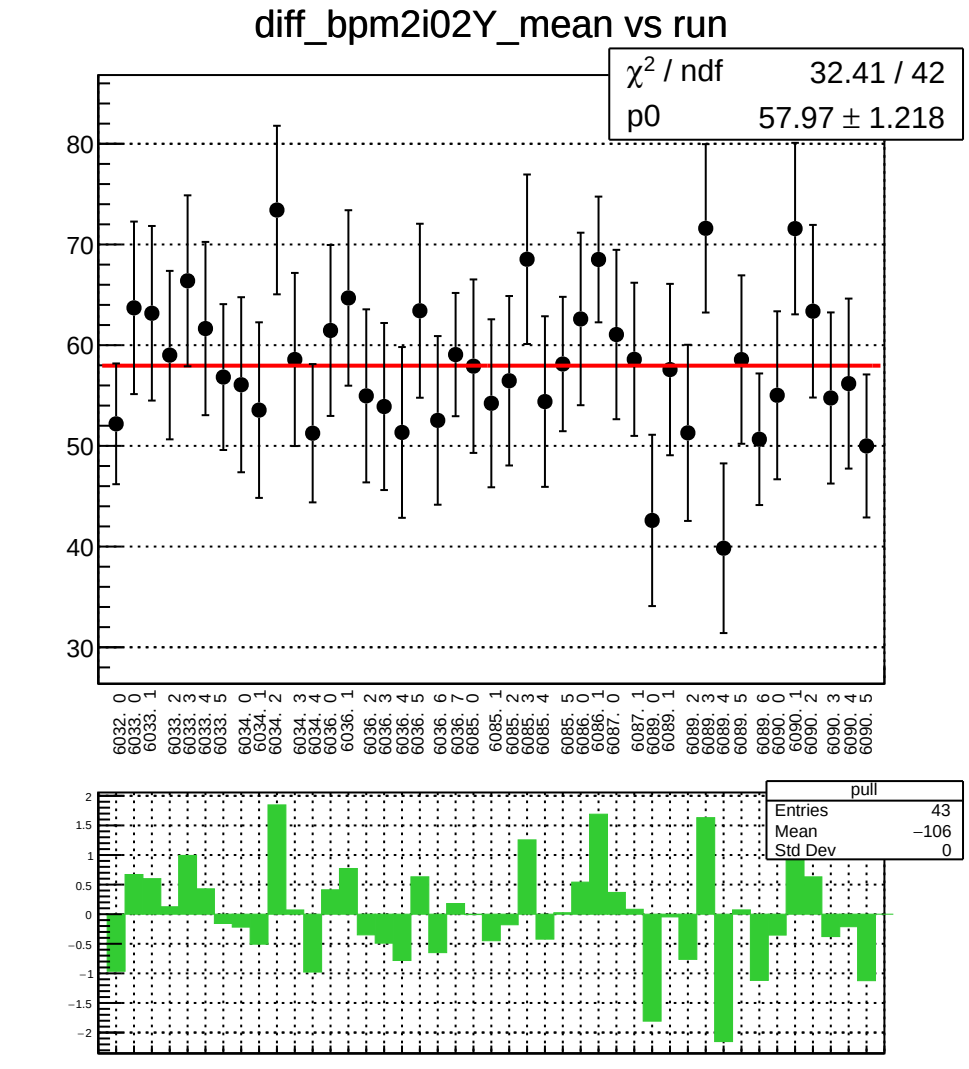

diff_bpm2i01Y_mean vs run
χ² / ndf 29.64 / 42
p0 5.121 ± 1.271
30
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −133.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

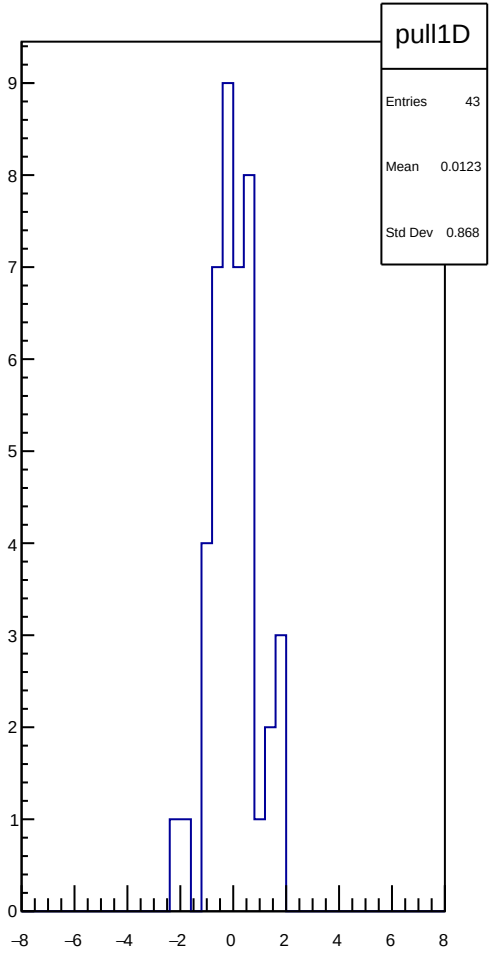

pull1D
Entries 43
Mean 0.01165
Std Dev 0.8301
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

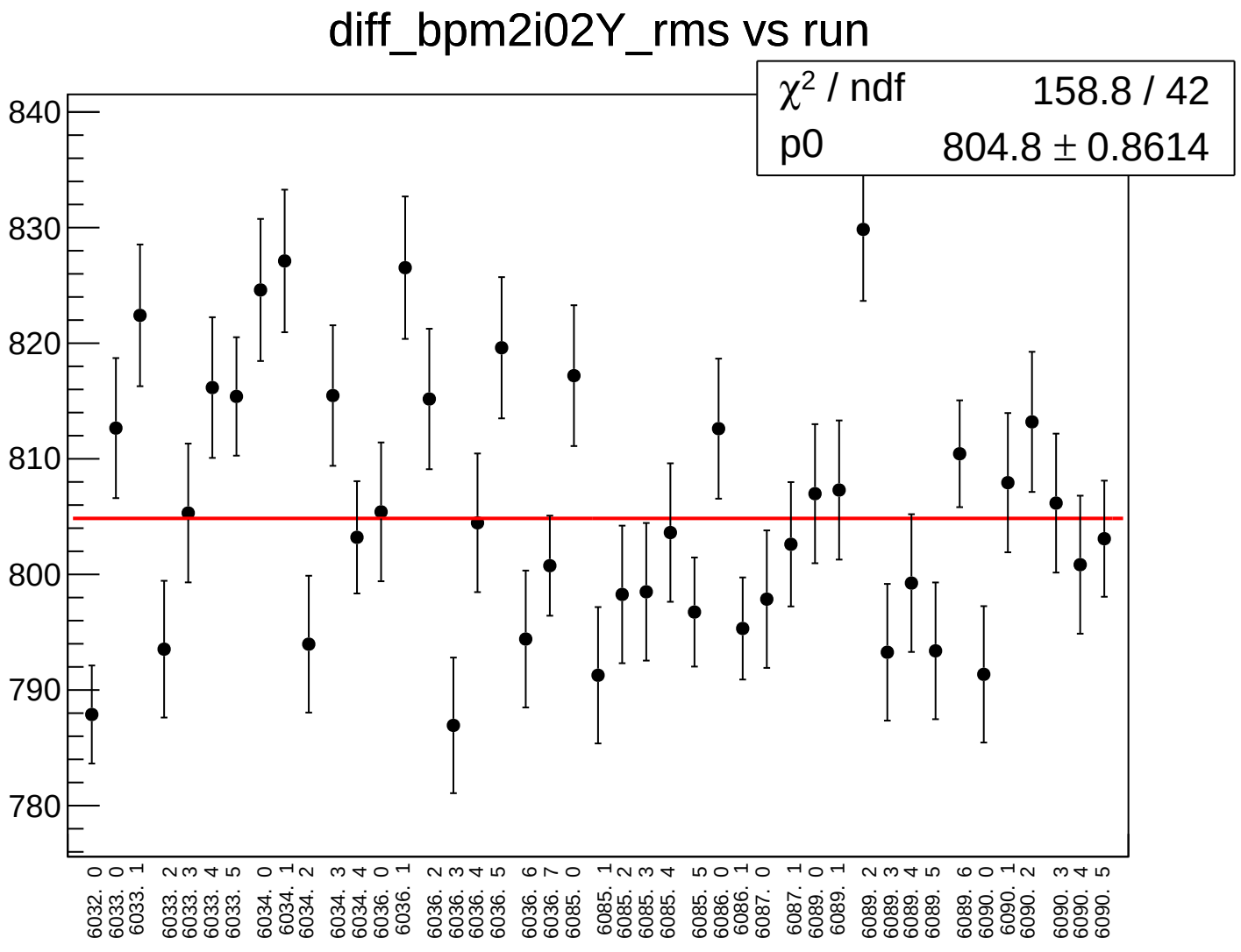

diff_bpm2i01Y_rms vs run
χ² / ndf 437 / 42
p0 839.7 ± 0.8989
900
880
860
840
820
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

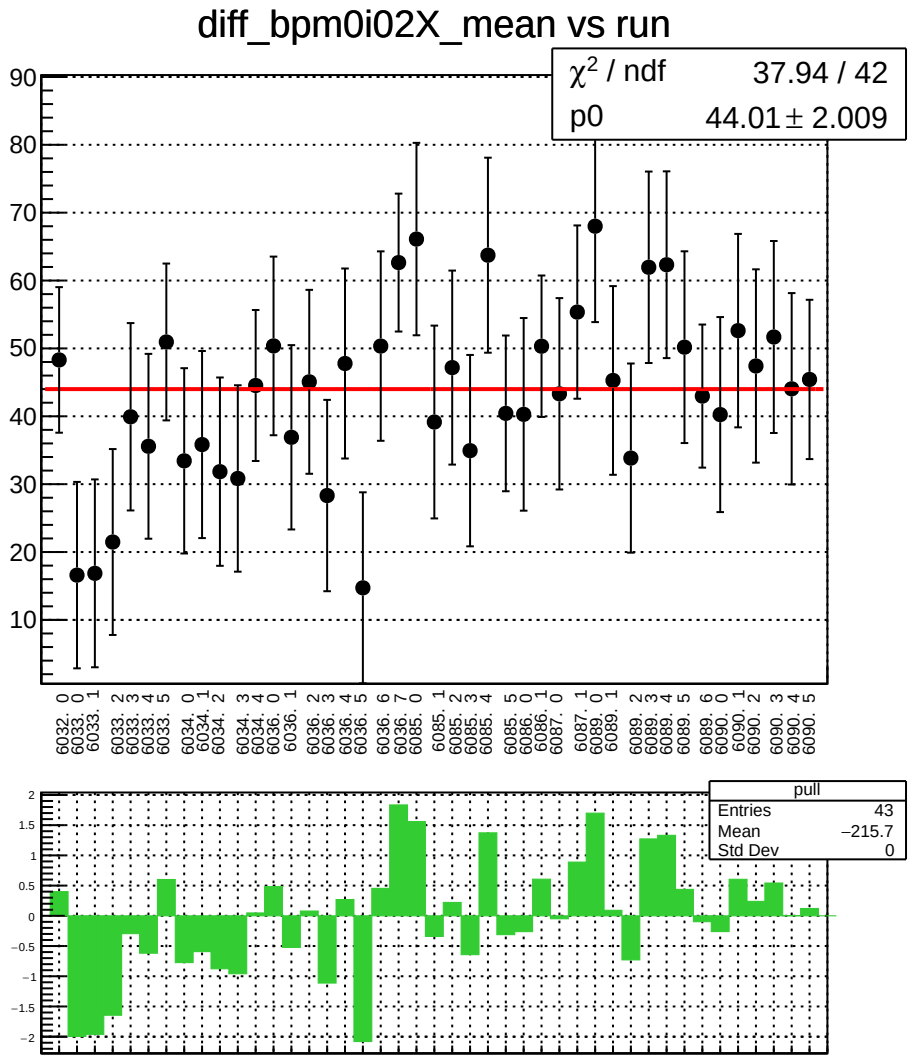

diff_bpm2i02X_mean vs run
χ² / ndf 38.07 / 42
p0 18.53 ± 1.181
40
30
20
10
0
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −65.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01732
Std Dev 0.9408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

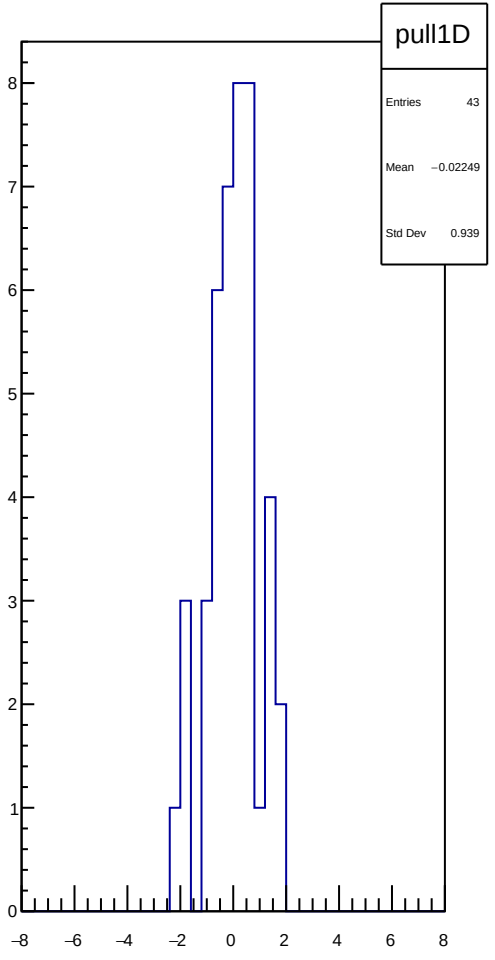

diff_bpm2i02X_rms vs run
χ² / ndf 119.5 / 42
p0 780.3 ± 0.8351
810
800
790
780
770
760
750
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

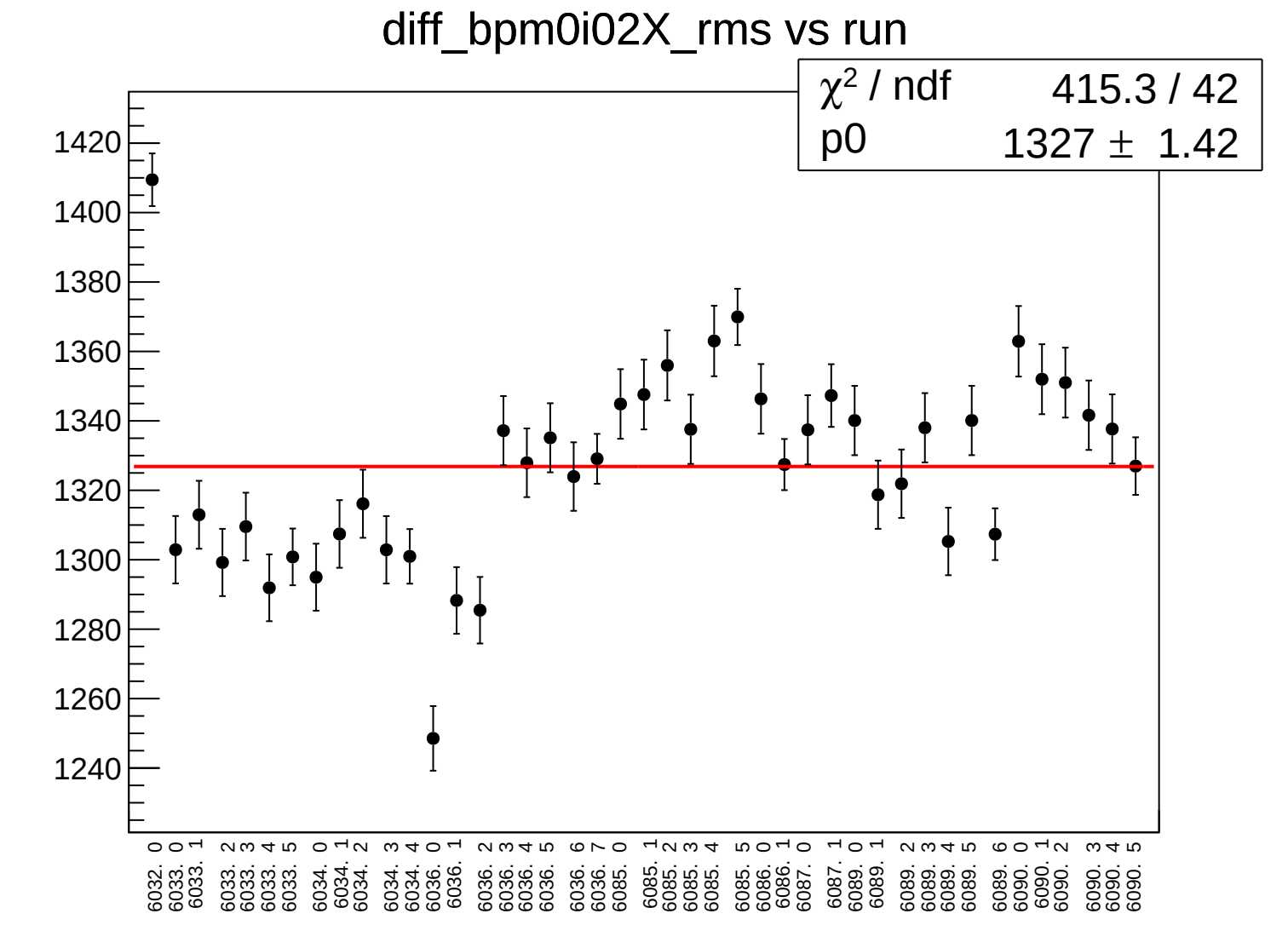

diff_bpm2i02Y_mean vs run
χ² / ndf 32.41 / 42
p0 57.97 ± 1.218
pull
Entries 43
Mean −106
Std Dev 0

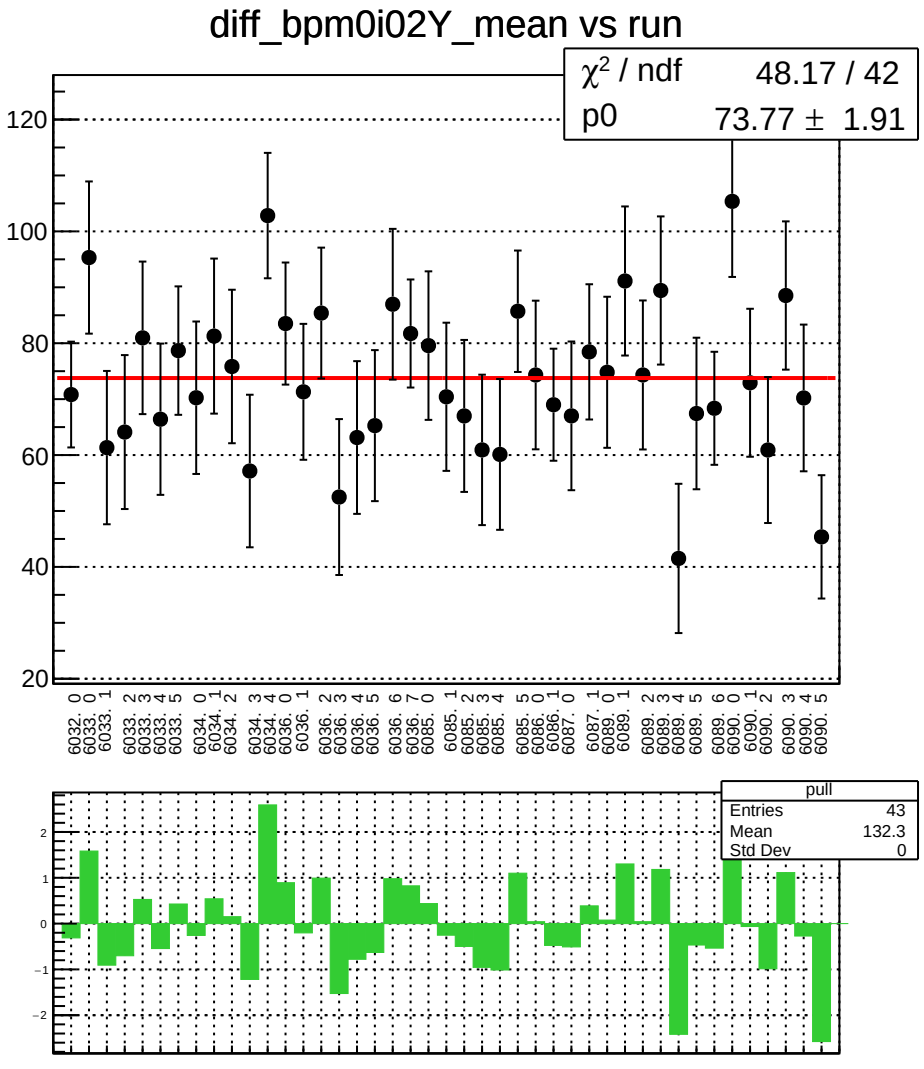

pull1D
Entries 43
Mean 0.0123
Std Dev 0.868

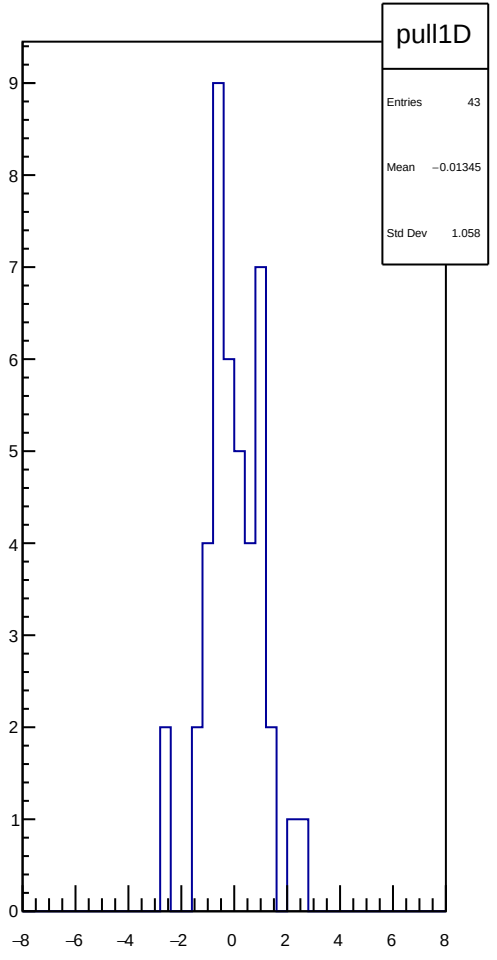

diff_bpm2i02Y_rms vs run
χ² / ndf 158.8 / 42
p0 804.8 ± 0.8614
840
830
820
810
800
790
780
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

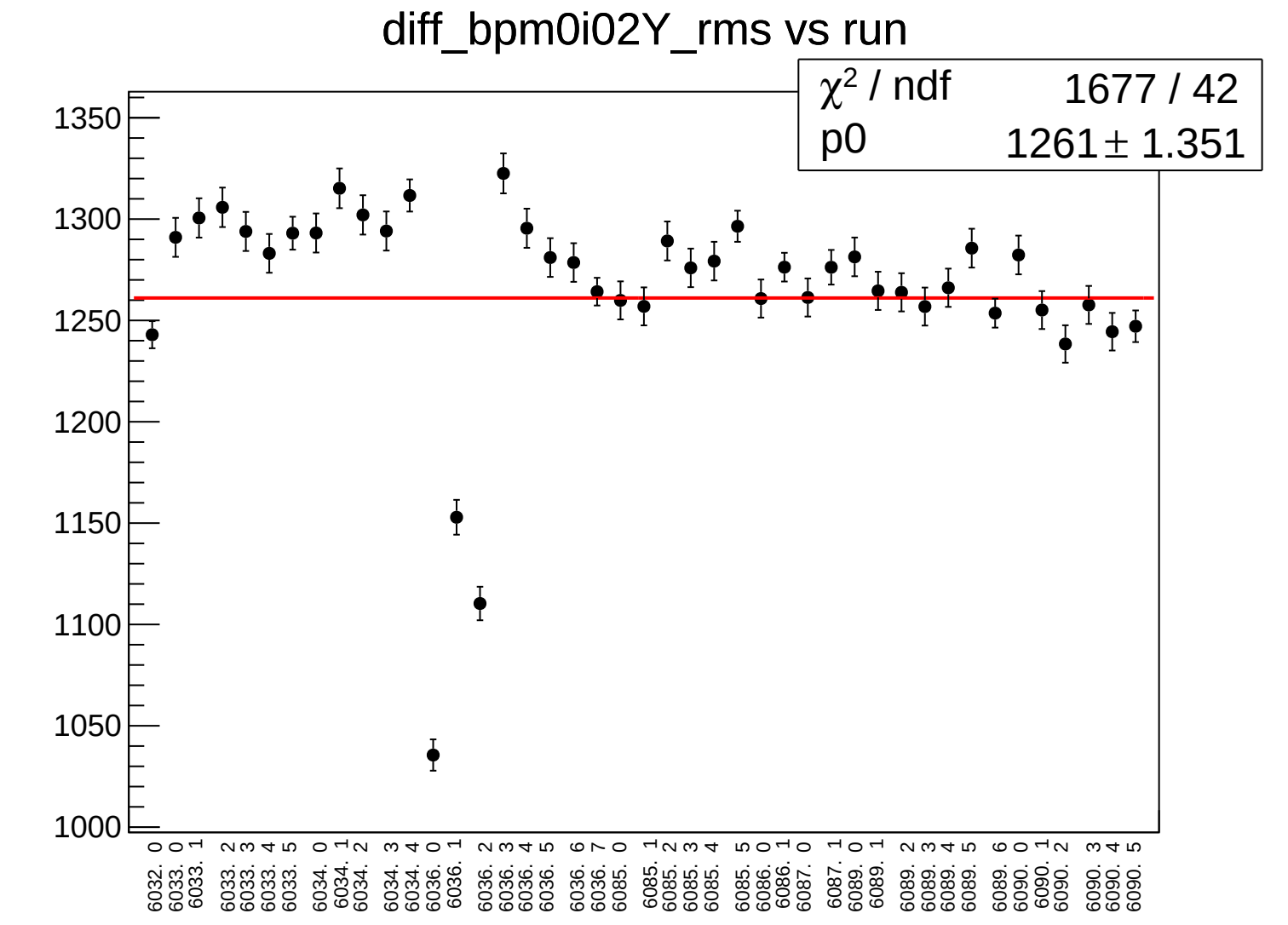

diff_bpm0i02X_mean vs run
χ^2 / ndf 37.94 / 42
p0 44.01 ± 2.009
pull
Entries 43
Mean −215.7
Std Dev 0

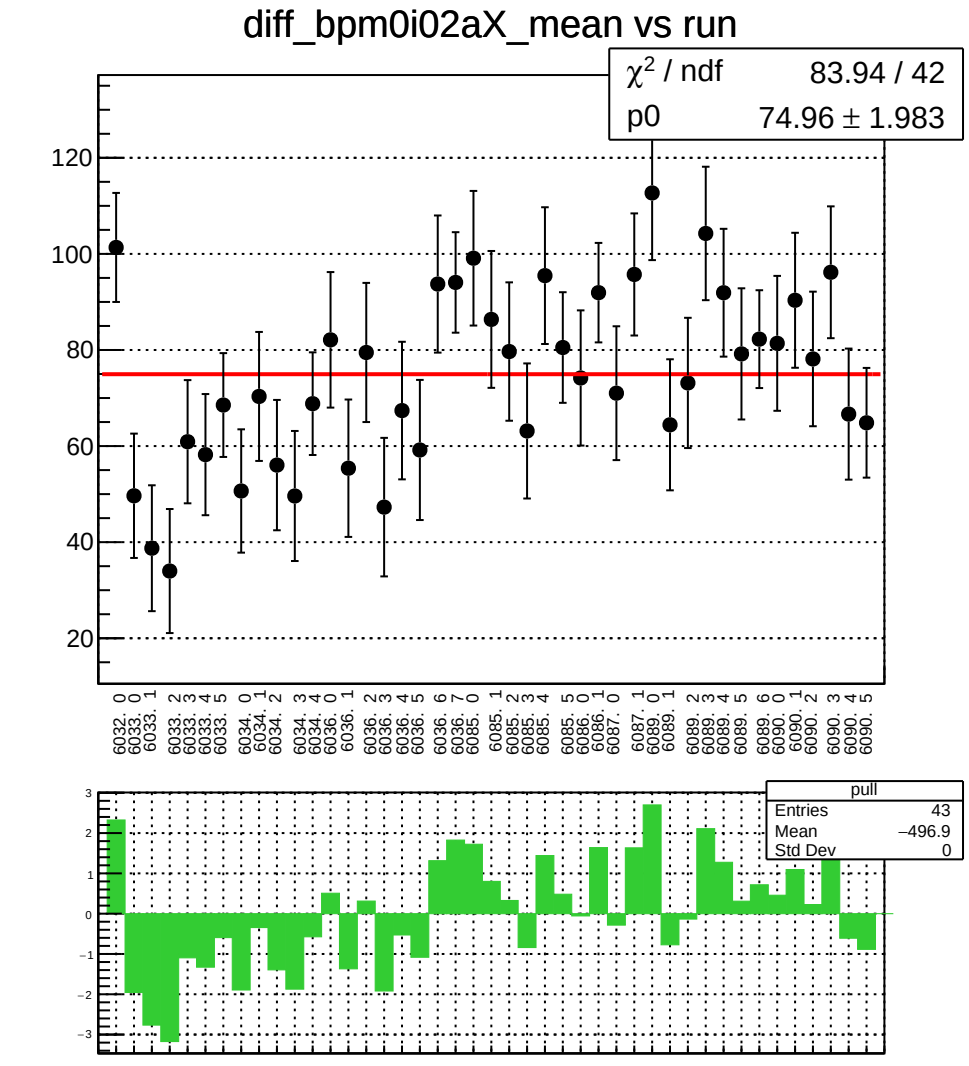

pull1D
Entries 43
Mean −0.02249
Std Dev 0.939

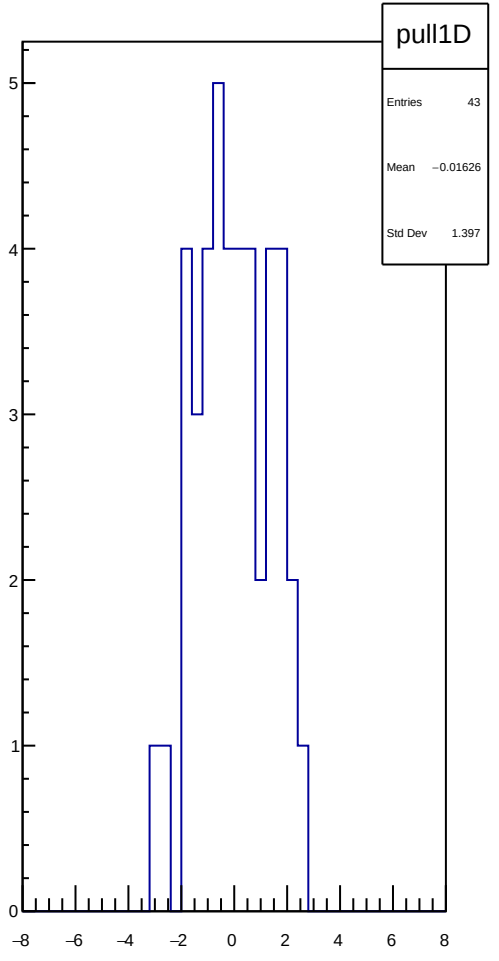

diff_bpm0i02X_rms vs run
χ² / ndf 415.3 / 42
p0 1327 ± 1.42
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

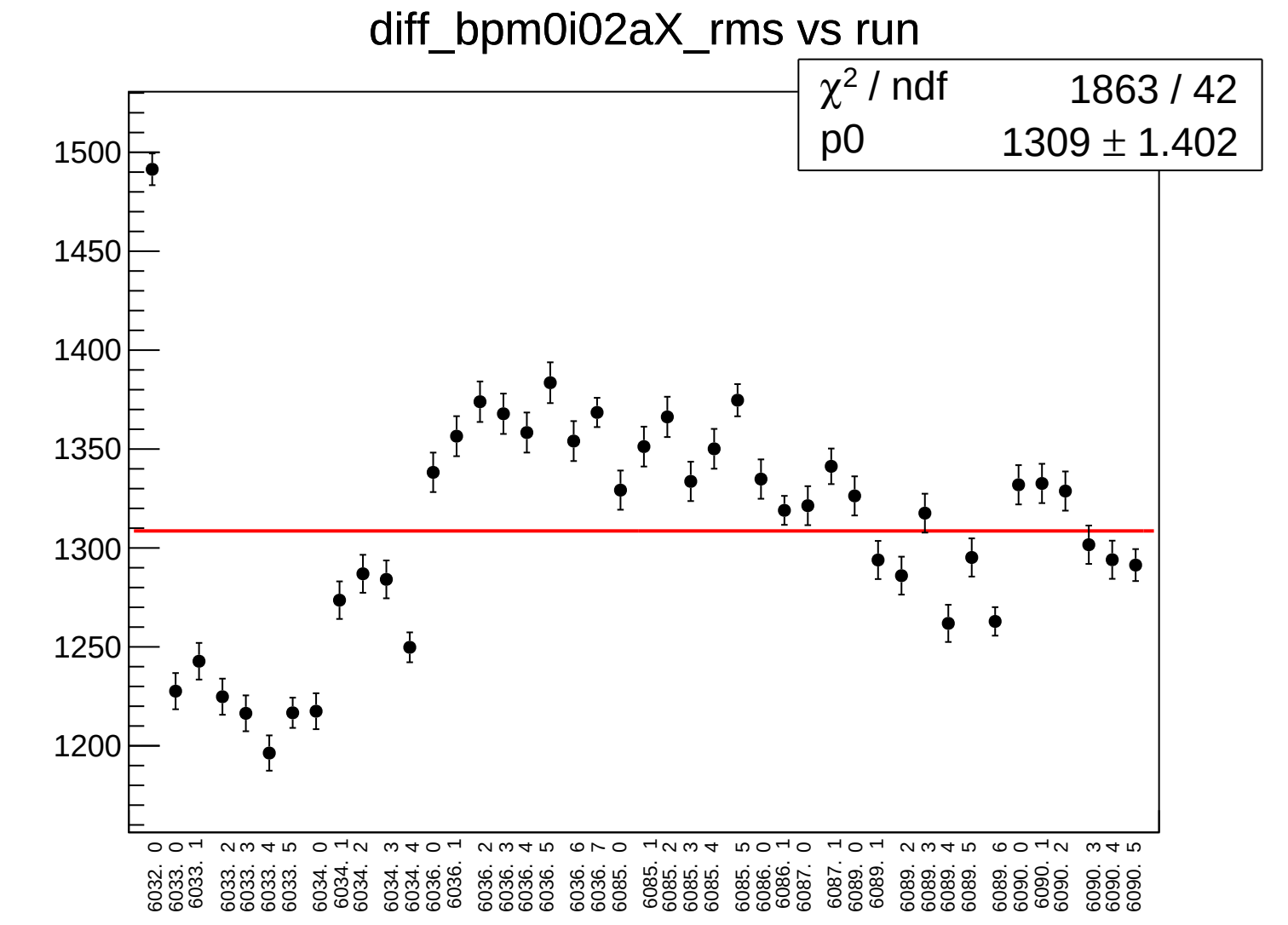

diff_bpm0i02Y_mean vs run
χ² / ndf 48.17 / 42
p0 73.77 ± 1.91
pull
Entries 43
Mean 132.3
Std Dev 0

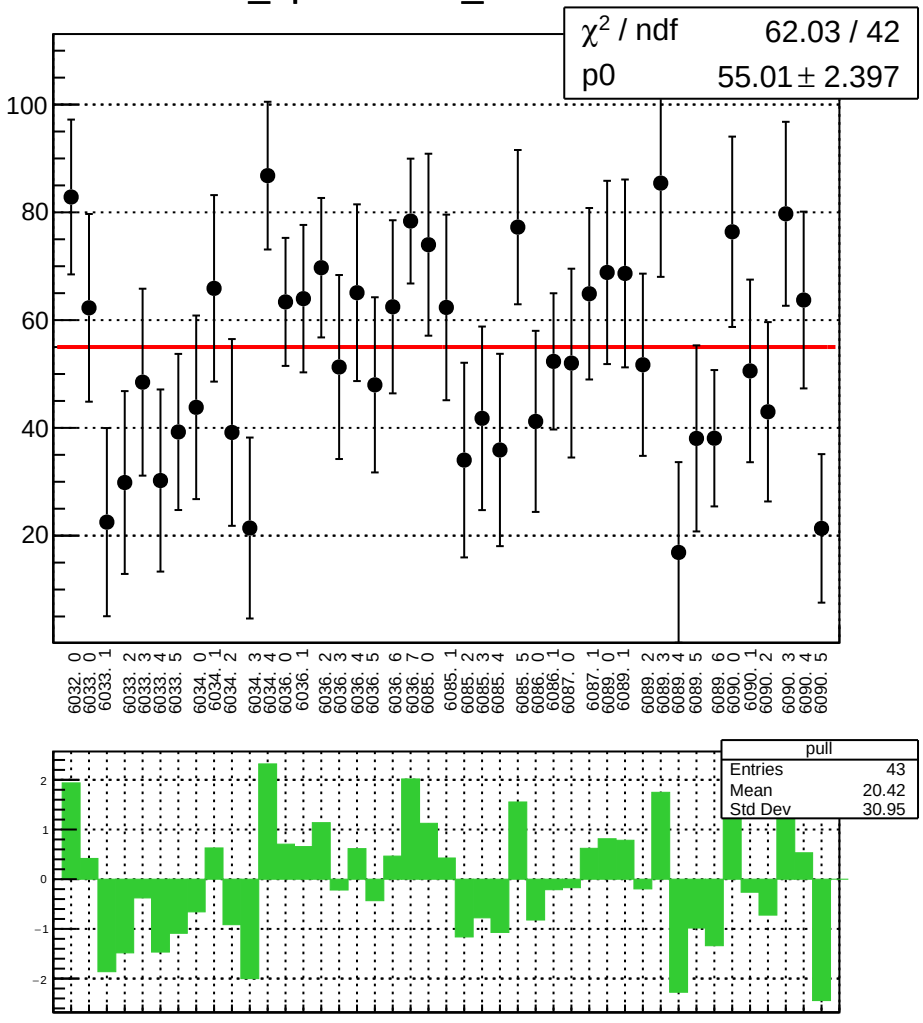

pull1D
Entries 43
Mean −0.01345
Std Dev 1.058

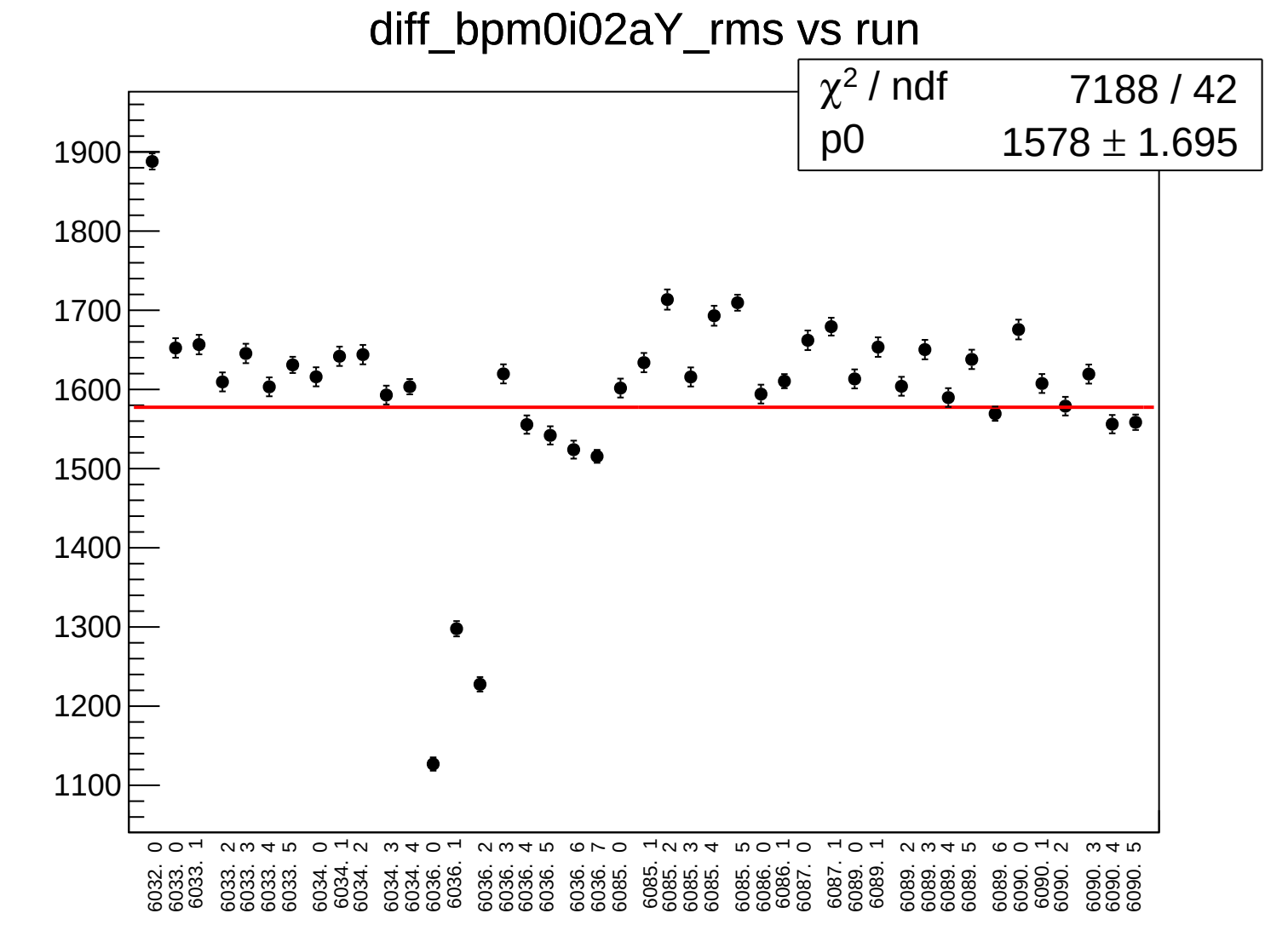

diff_bpm0i02Y_rms vs run
χ² / ndf 1677 / 42
p0 1261 ± 1.351
1350
1300
1250
1200
1150
1100
1050
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

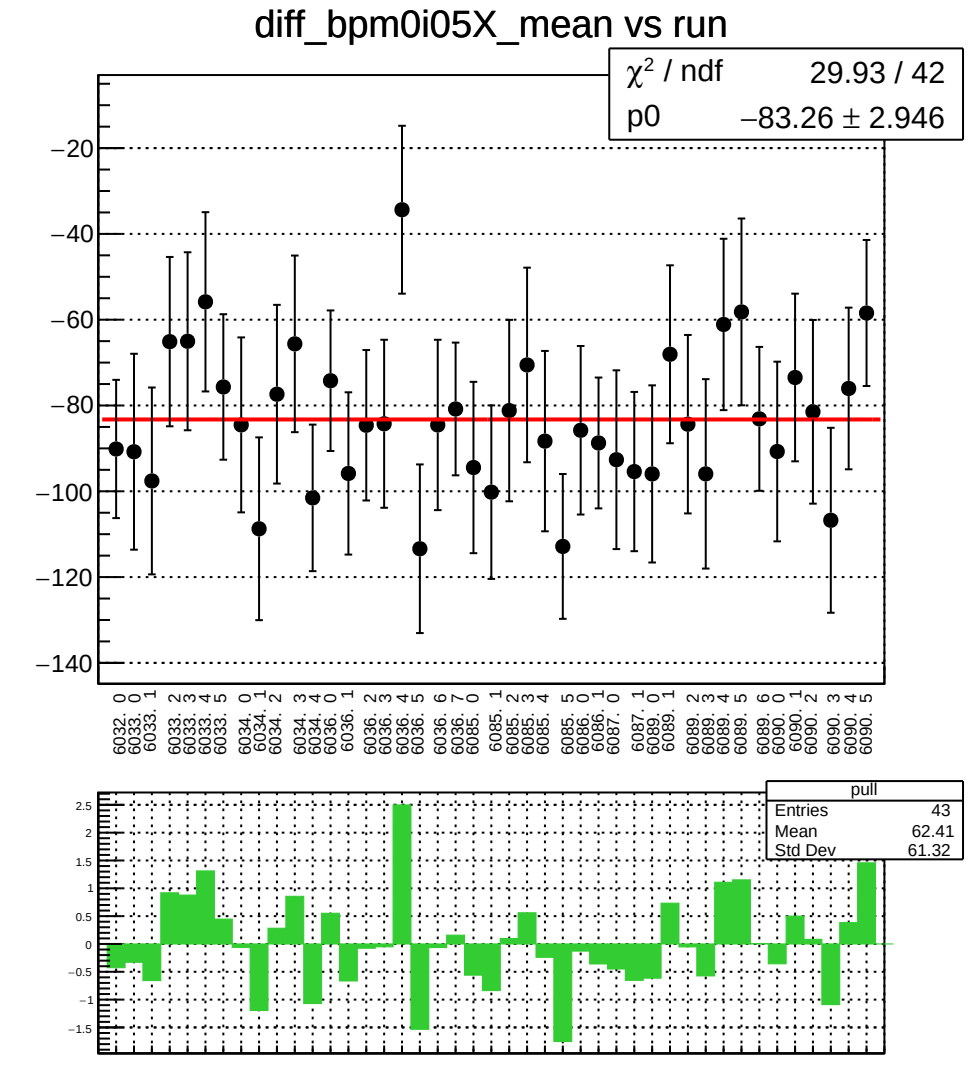

diff_bpm0i02aX_mean vs run
χ² / ndf 83.94 / 42
p0 74.96 ± 1.983
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −496.9
Std Dev 0
3
2
1
0
−1
−2
−3

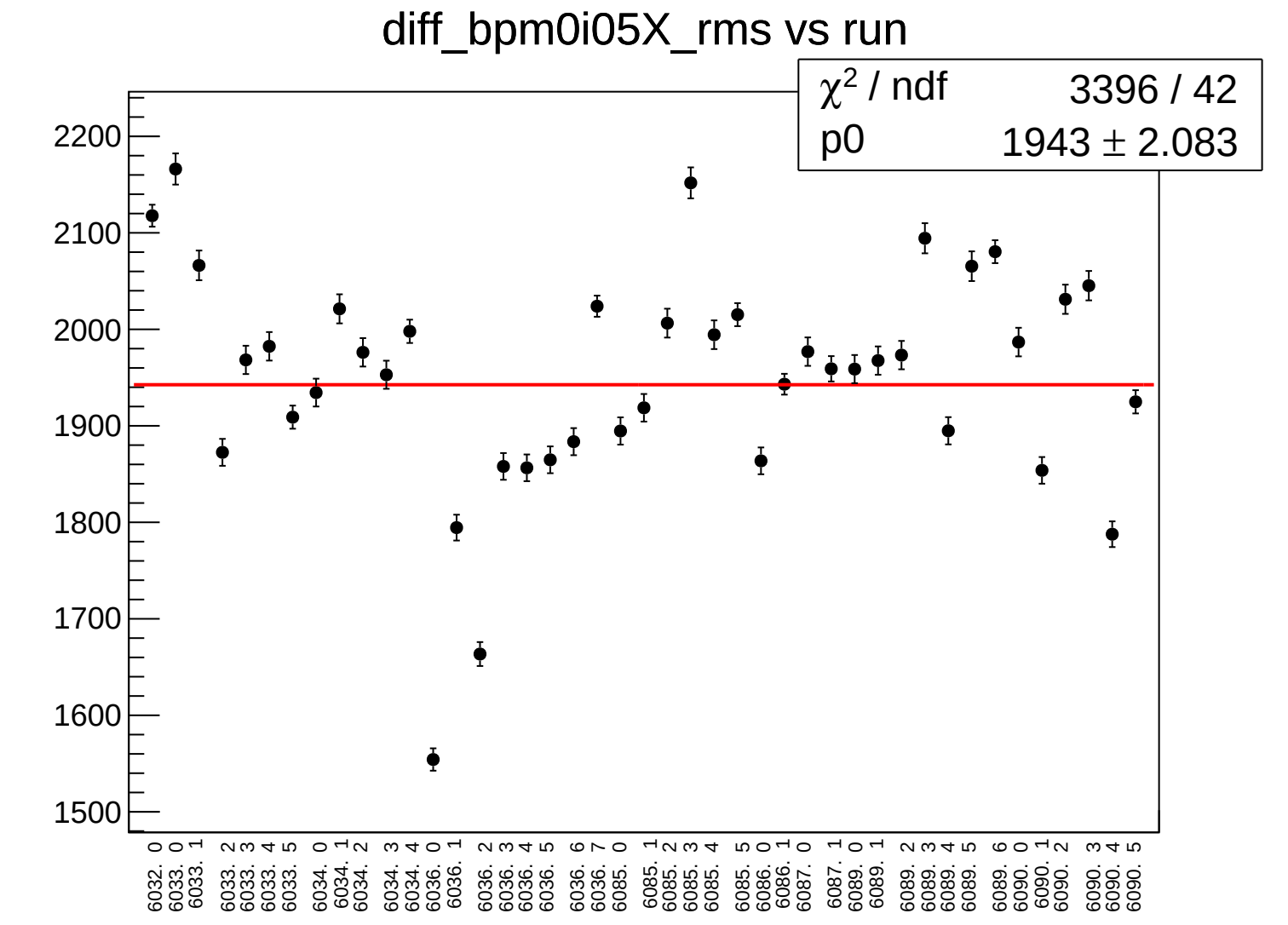

pull1D
Entries 43
Mean −0.01626
Std Dev 1.397
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

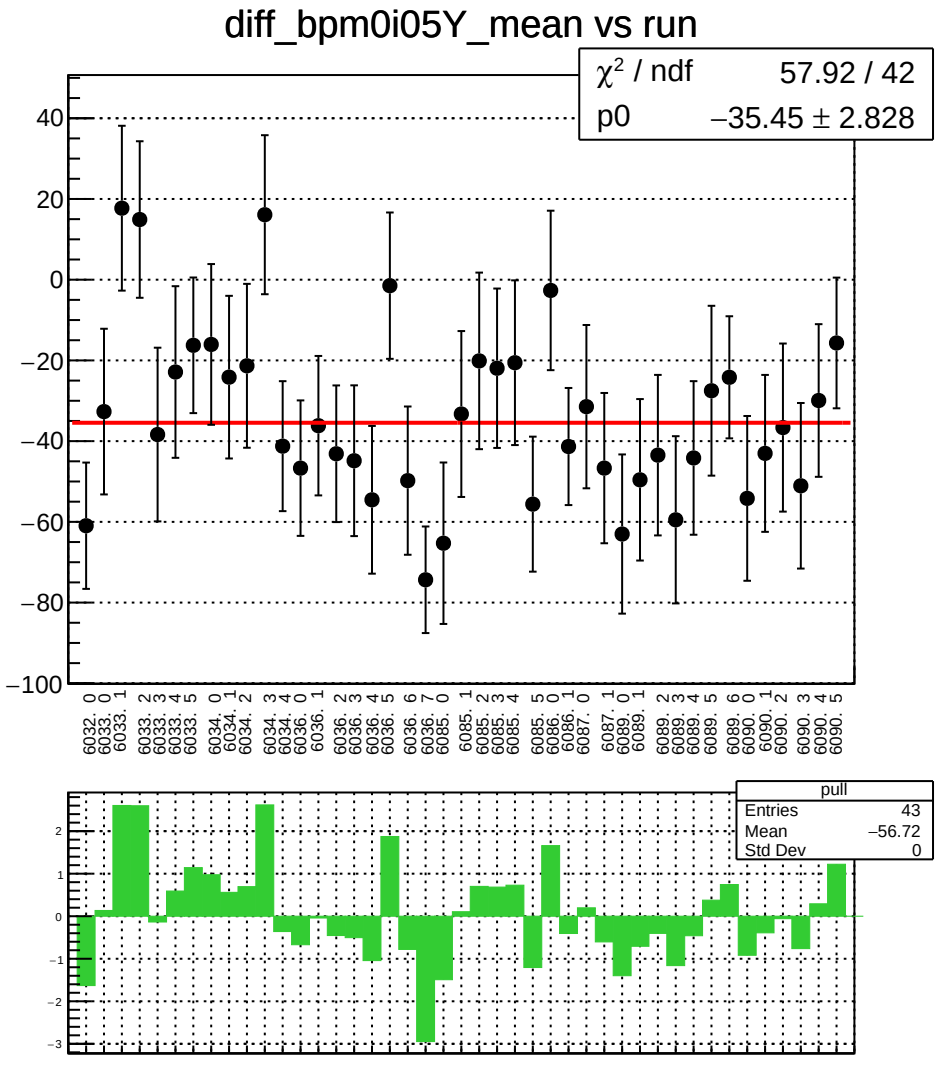

diff_bpm0i02aX_rms vs run
χ² / ndf 1863 / 42
p0 1309 ± 1.402
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

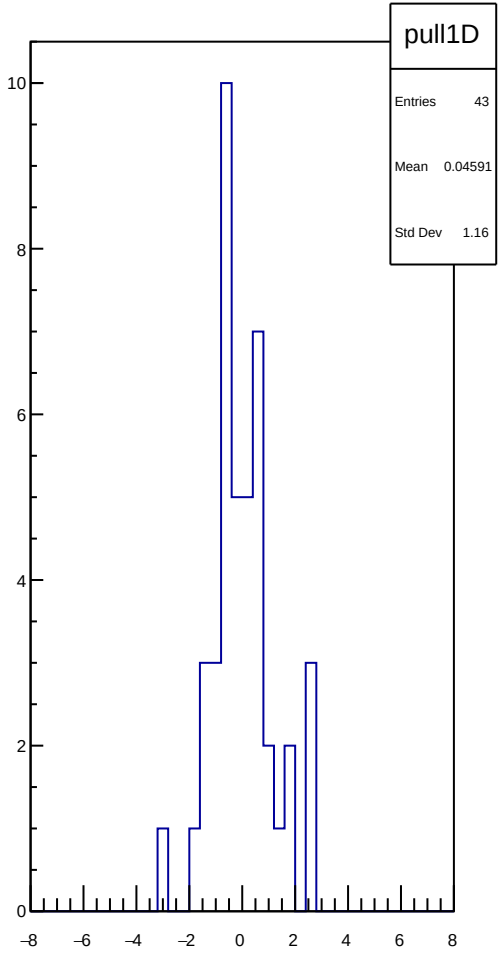

diff_bpm0i02aY_mean vs run
χ² / ndf 62.03 / 42
p0 55.01 ± 2.397
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.42
Std Dev 30.95
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0409
Std Dev 1.2
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

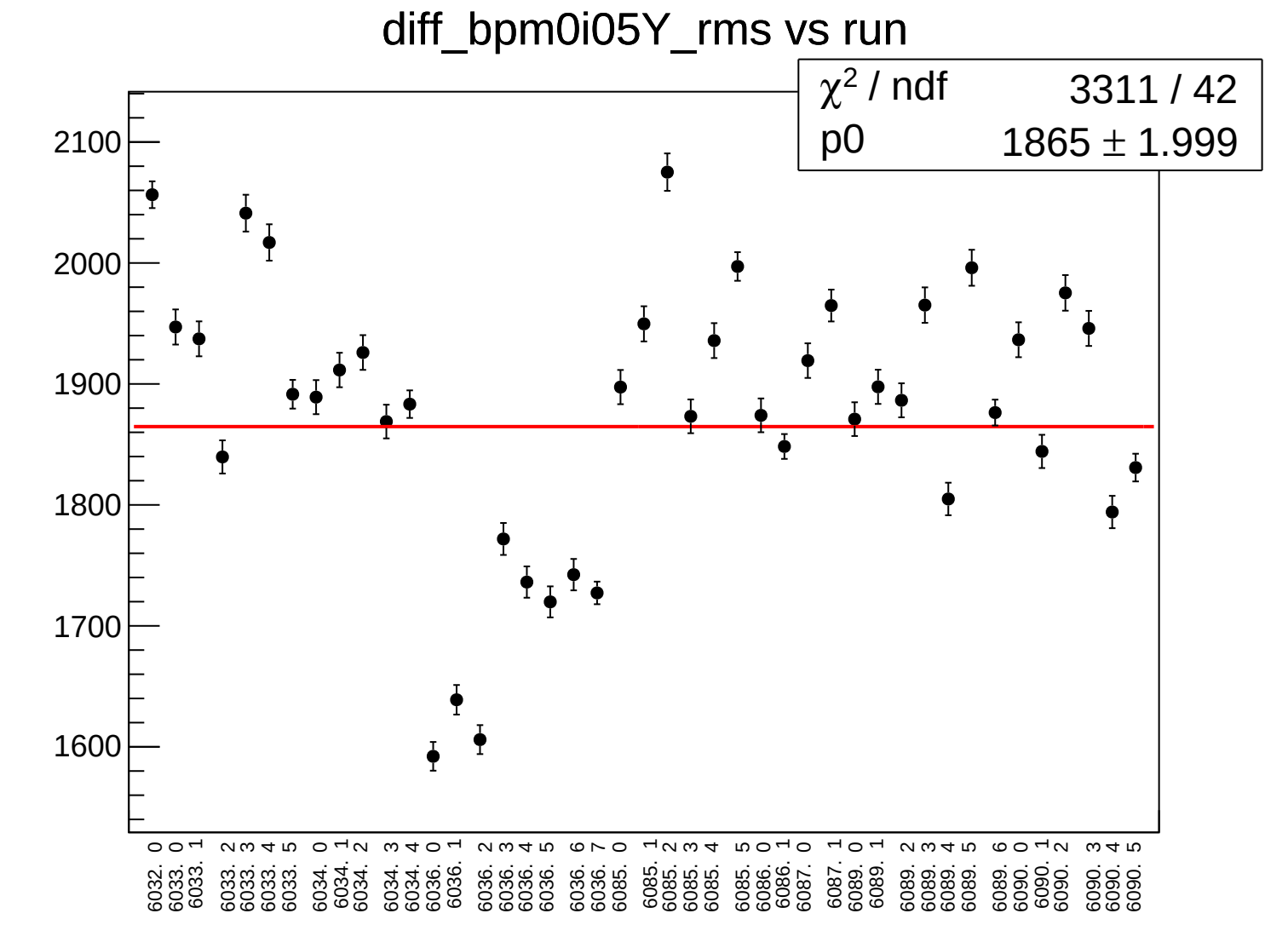

diff_bpm0i02aY_rms vs run
χ² / ndf 7188 / 42
p0 1578 ± 1.695
1900
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

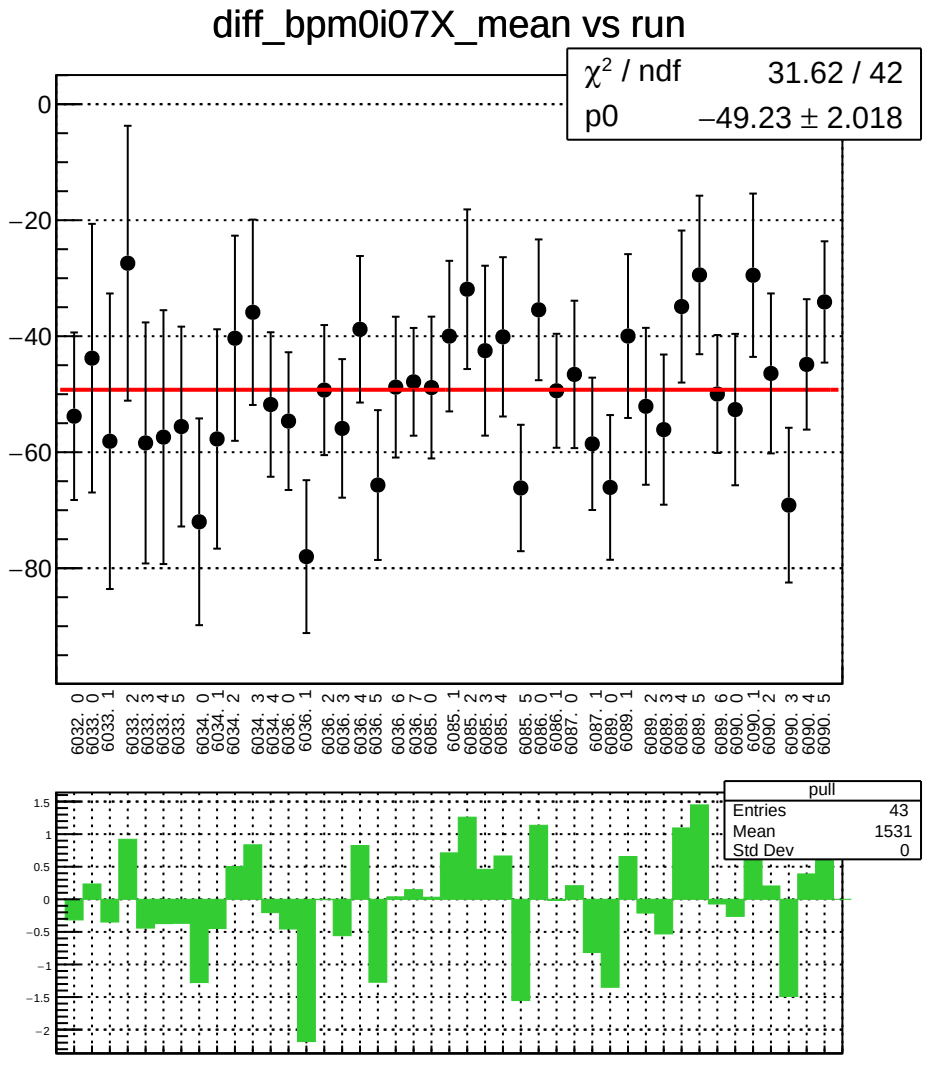

diff_bpm0i05X_mean vs run
χ² / ndf 29.93 / 42
p0 −83.26 ± 2.946
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 62.41
Std Dev 61.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.004335
Std Dev 0.8343
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

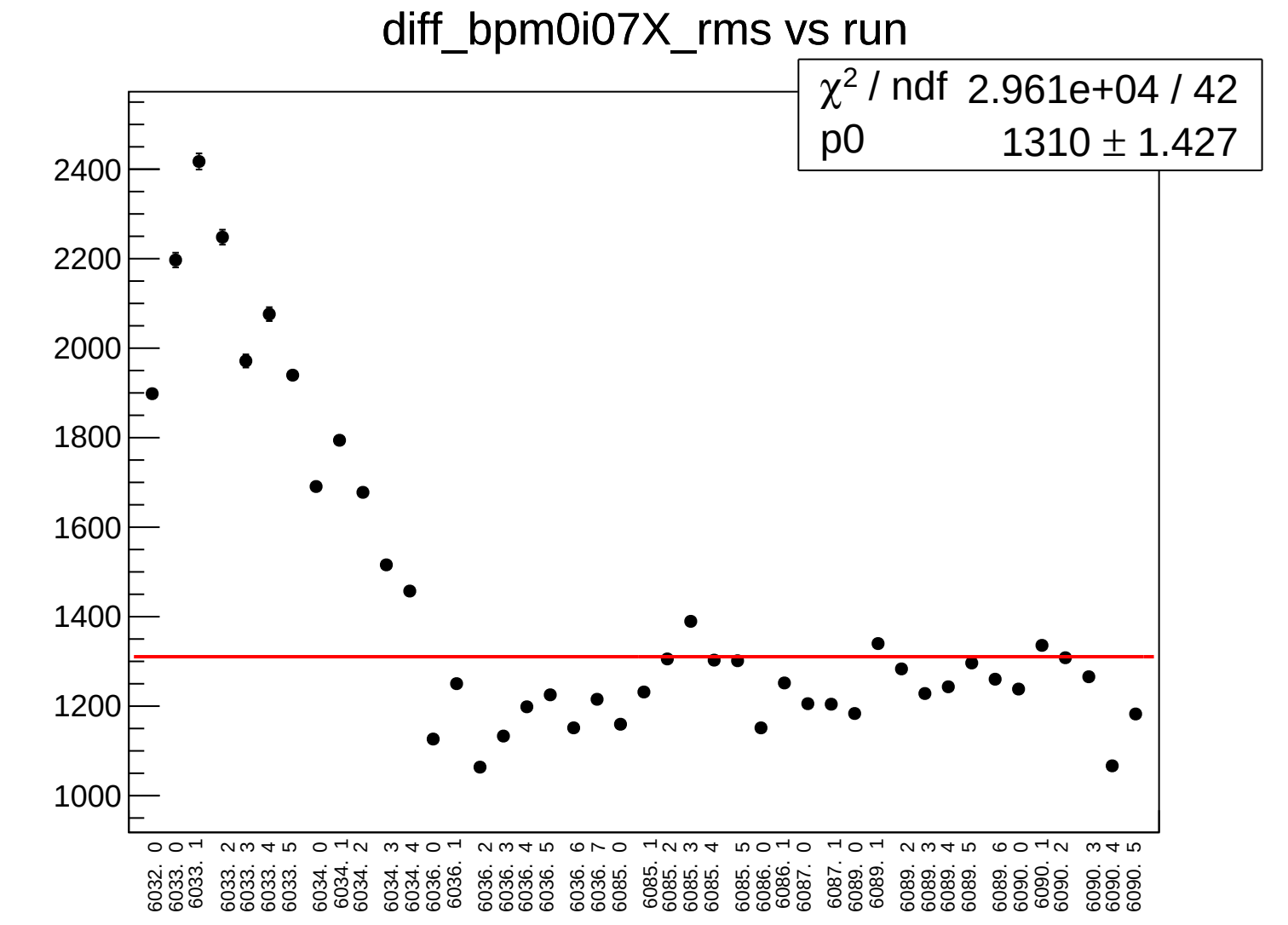

diff_bpm0i05X_rms vs run
χ² / ndf 3396 / 42
p0 1943 ± 2.083
2200
2100
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

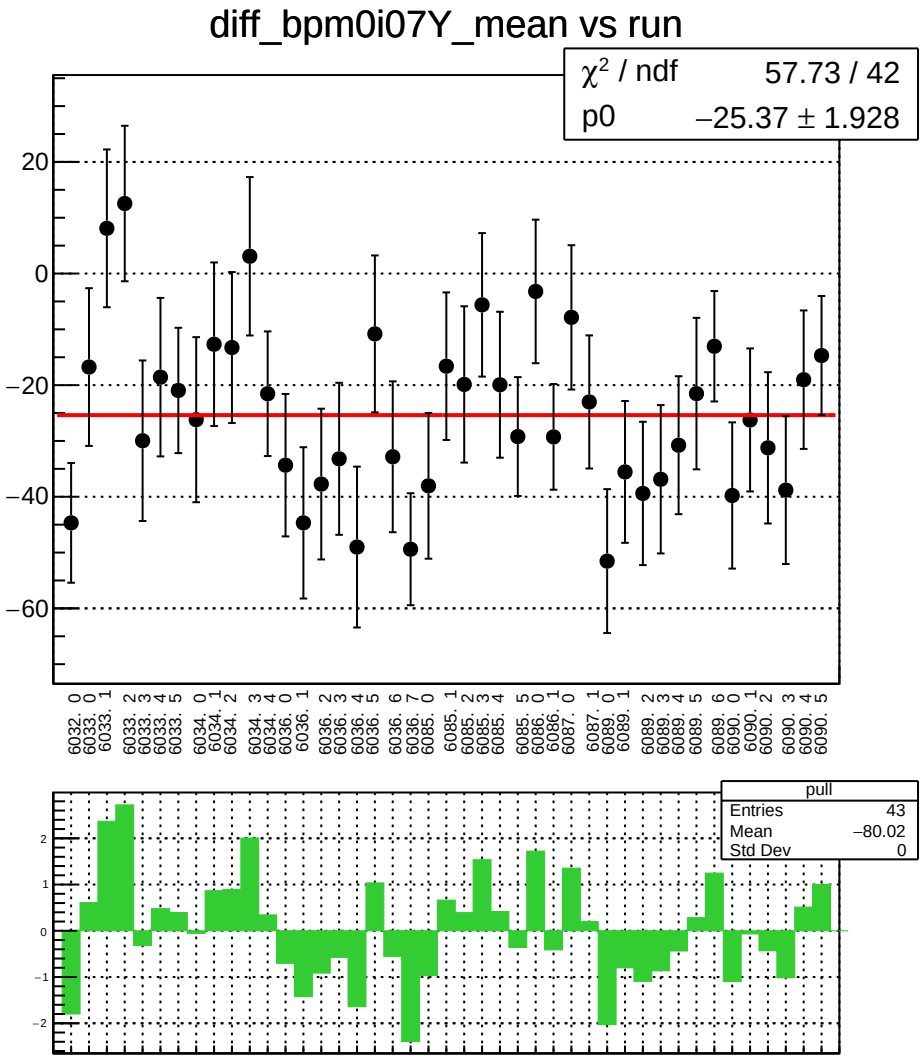

diff_bpm0i05Y_mean vs run
χ² / ndf 57.92 / 42
p0 −35.45 ± 2.828
pull
Entries 43
Mean −56.72
Std Dev 0

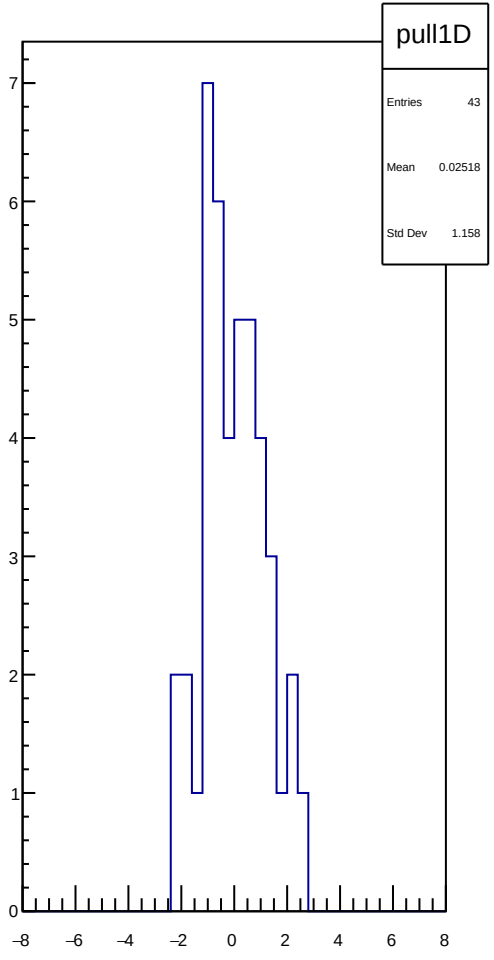

pull1D
Entries 43
Mean 0.04591
Std Dev 1.16

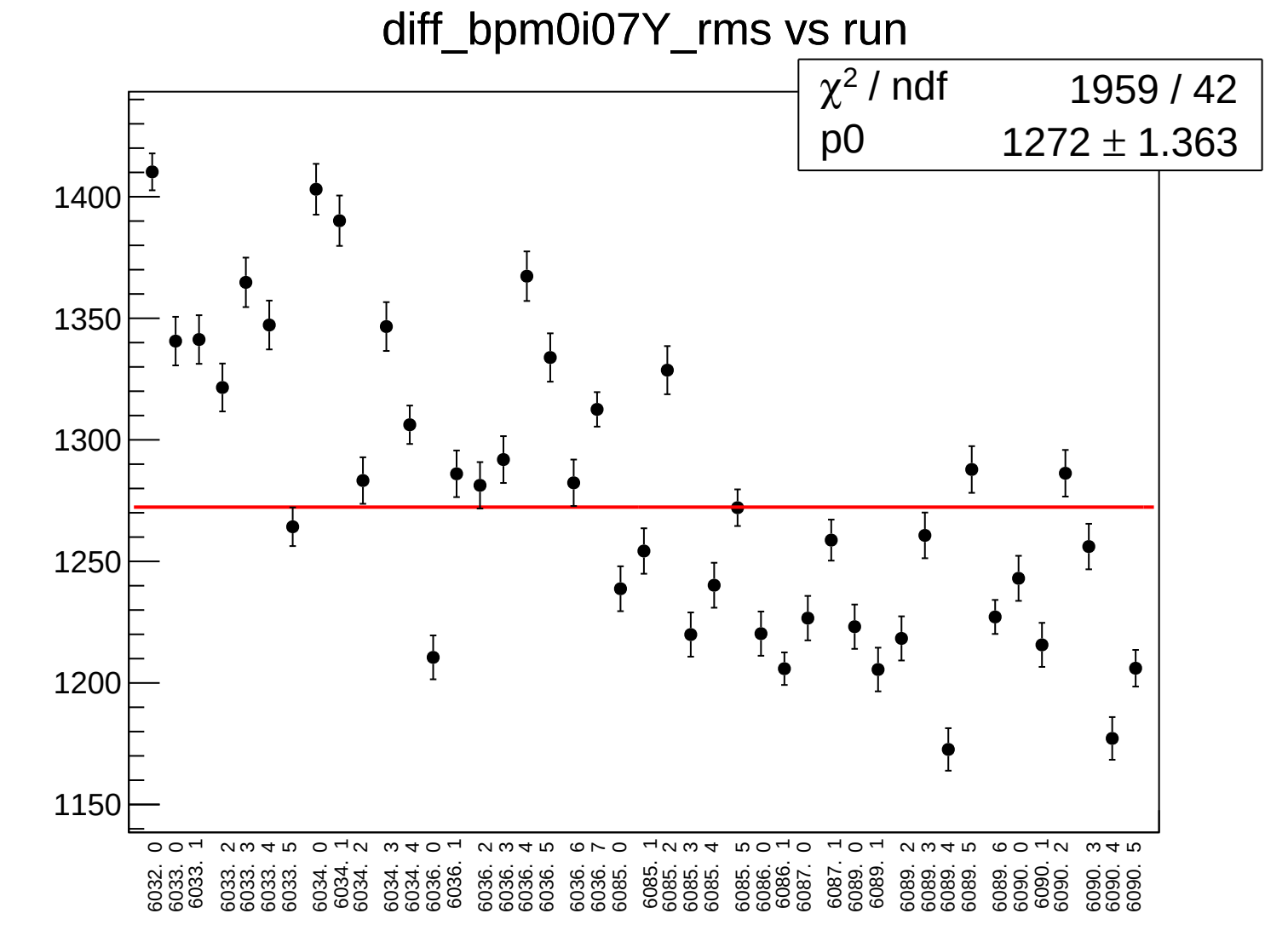

diff_bpm0i05Y_rms vs run
χ² / ndf 3311 / 42
p0 1865 ± 1.999
2100
2000
1900
1800
1700
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

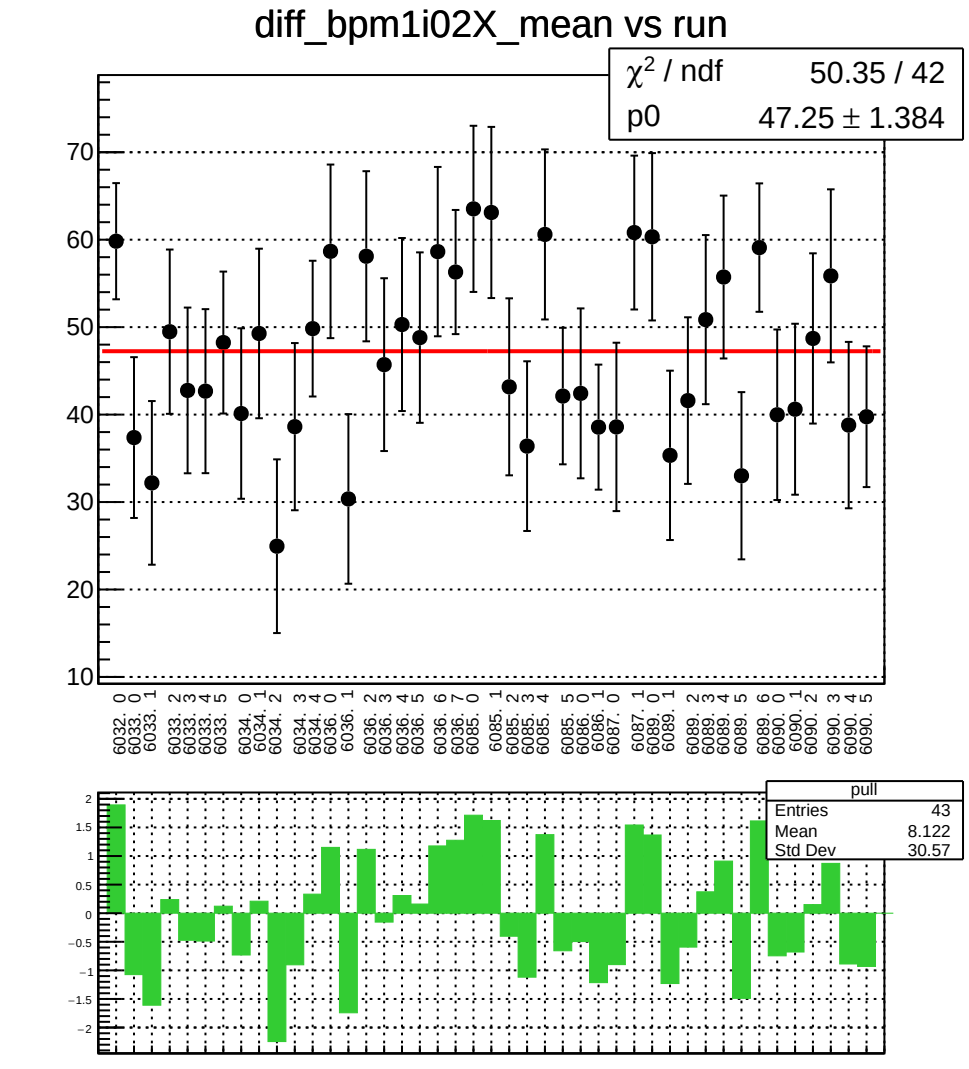

diff_bpm0i07X_mean vs run
χ² / ndf 31.62 / 42
p0 −49.23 ± 2.018
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1531
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001507
Std Dev 0.8575
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

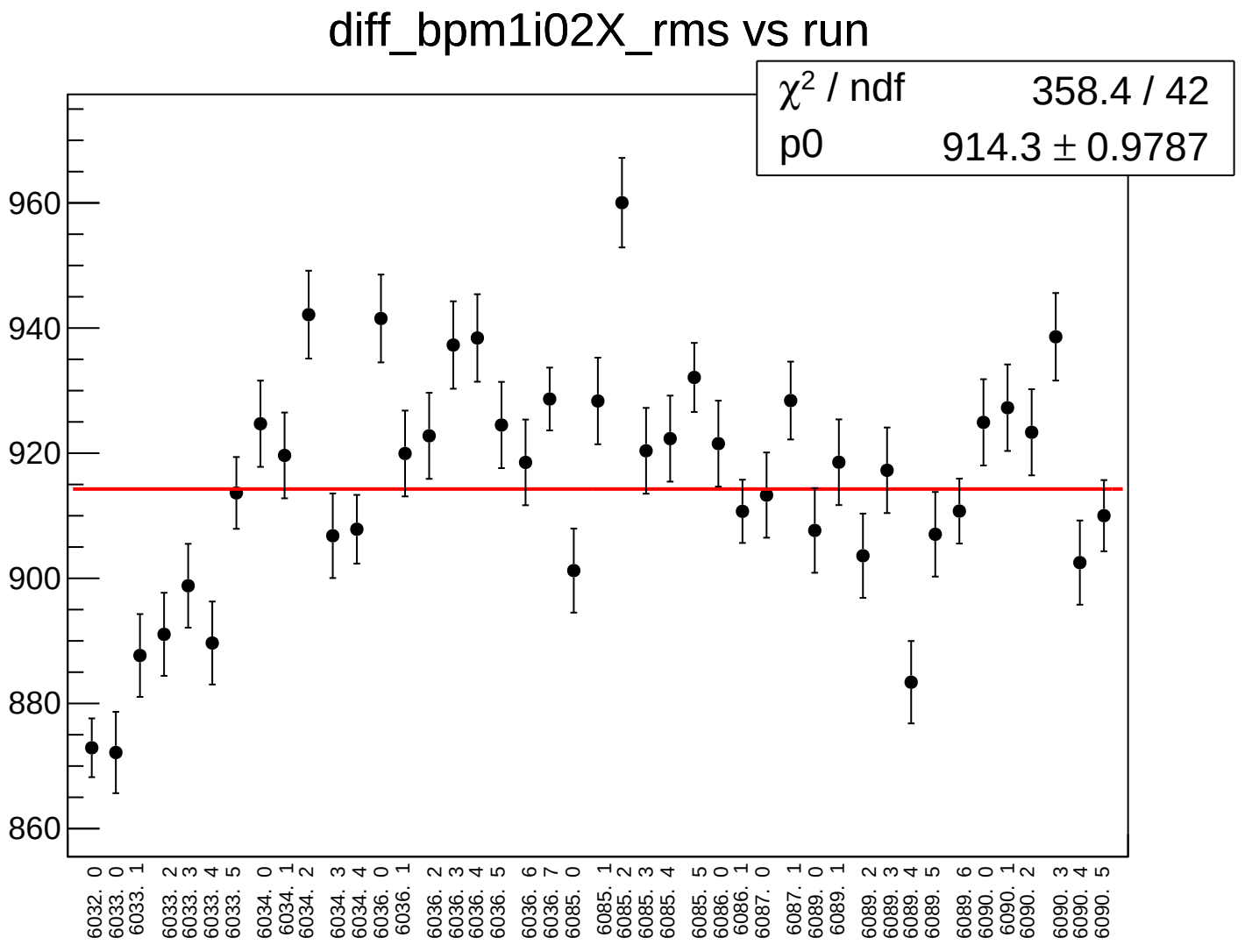

diff_bpm0i07X_rms vs run
χ² / ndf 2.961e+04 / 42
p0 1310 ± 1.427
2400
2200
2000
1800
1600
1400
1200
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

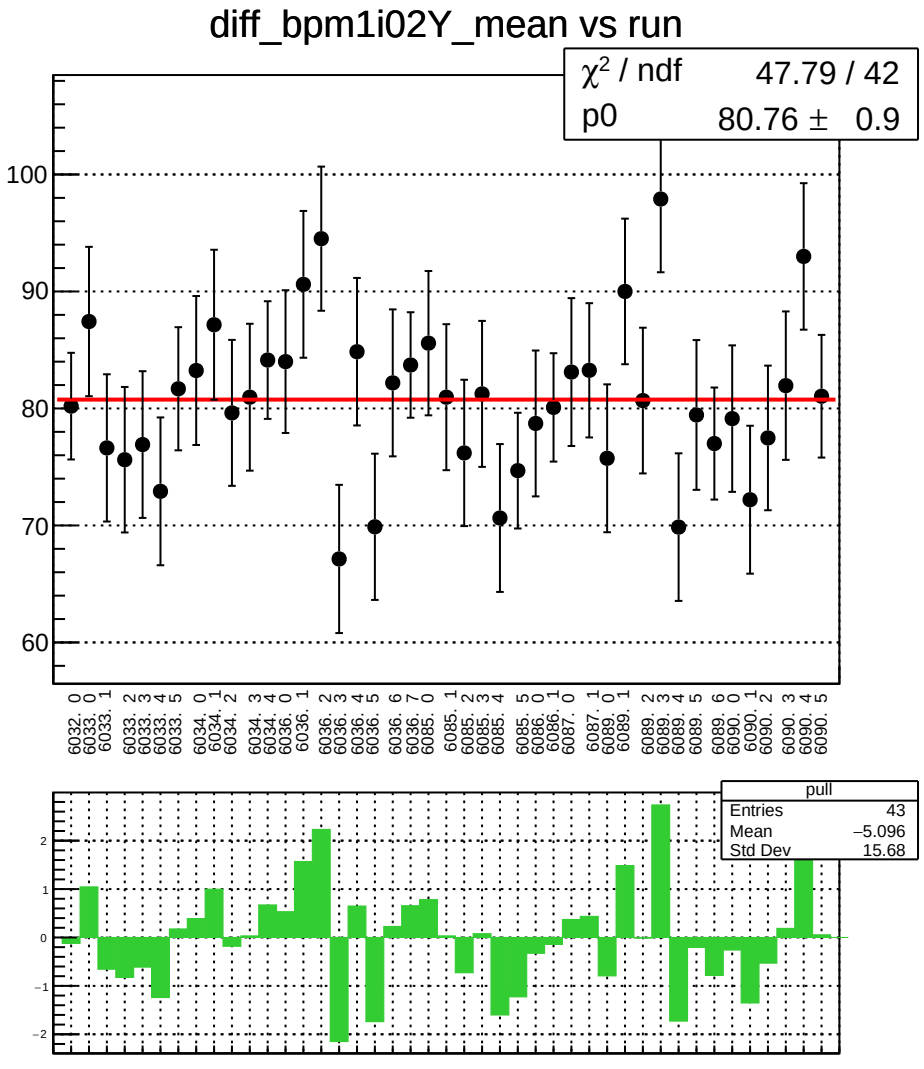

diff_bpm0i07Y_mean vs run
χ² / ndf 57.73 / 42
p0 −25.37 ± 1.928
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −80.02
Std Dev 0
2
1
0
−1
−2

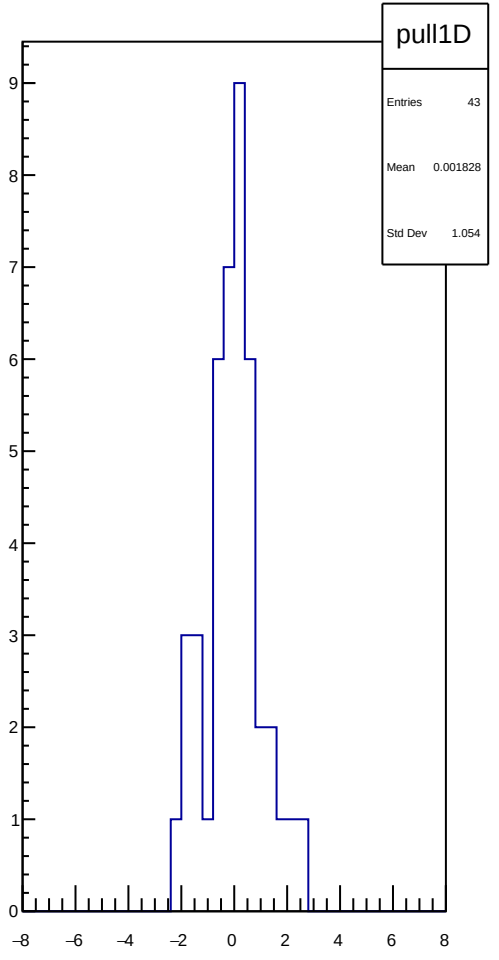

pull1D
Entries 43
Mean 0.02518
Std Dev 1.158
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

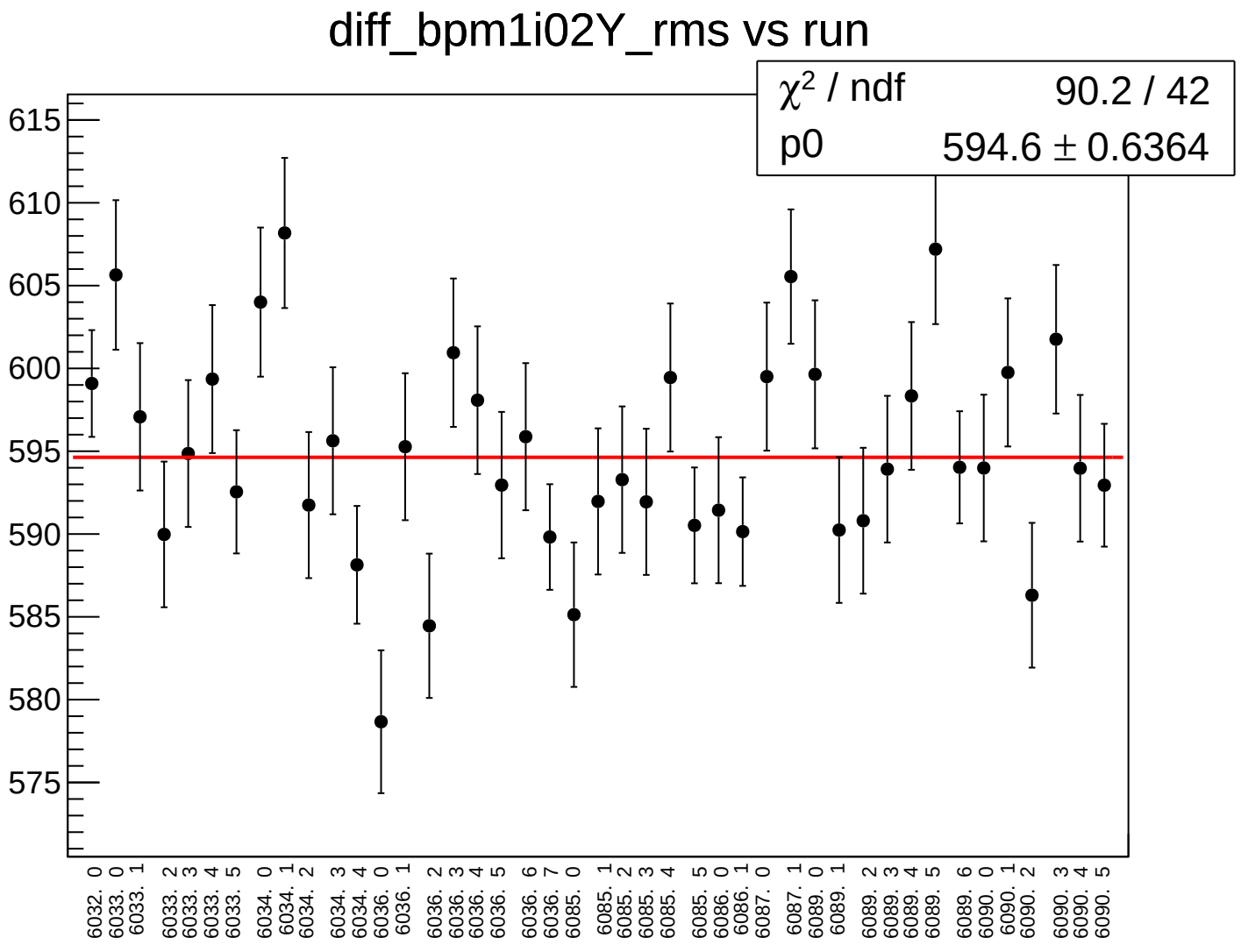

diff_bpm0i07Y_rms vs run
χ² / ndf 1959 / 42
p0 1272 ± 1.363
1400
1350
1300
1250
1200
1150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

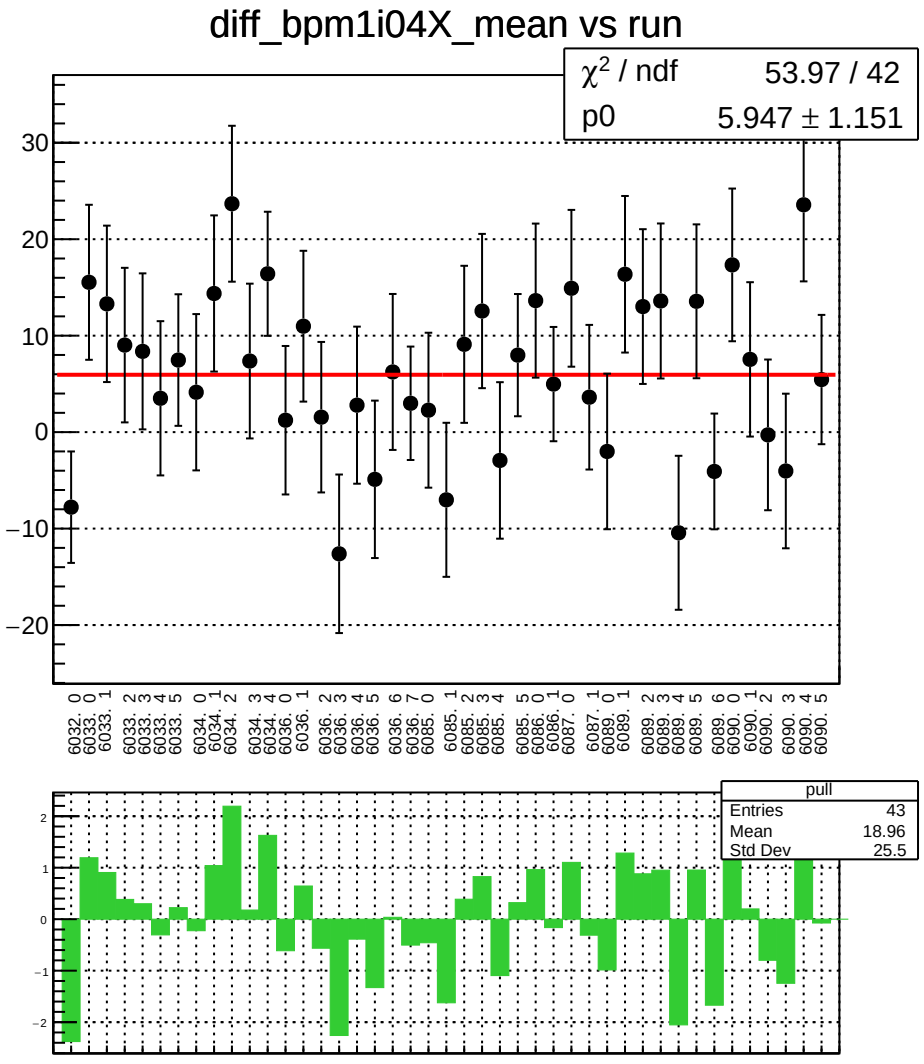

diff_bpm1i02X_mean vs run
χ² / ndf 50.35 / 42
p0 47.25 ± 1.384
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.122
Std Dev 30.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02881
Std Dev 1.082
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

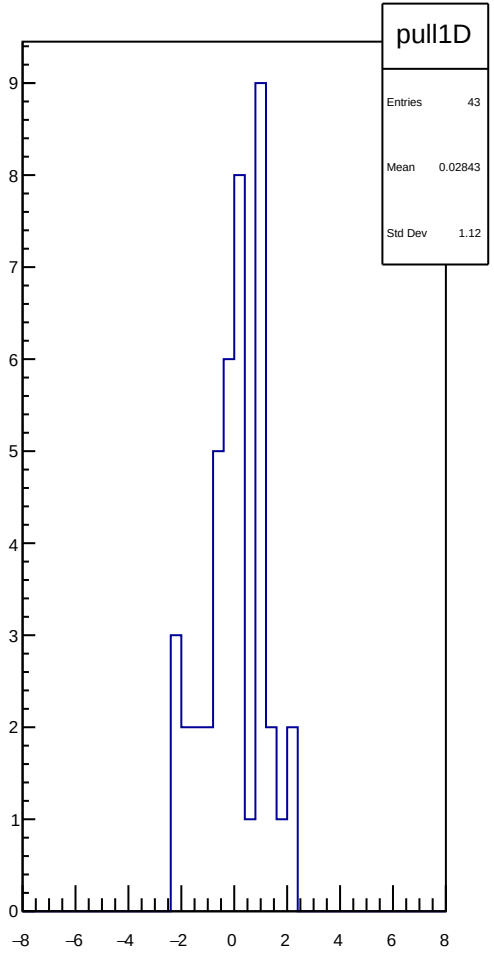

diff_bpm1i02X_rms vs run
χ² / ndf 358.4 / 42
p0 914.3 ± 0.9787
960
940
920
900
880
860
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

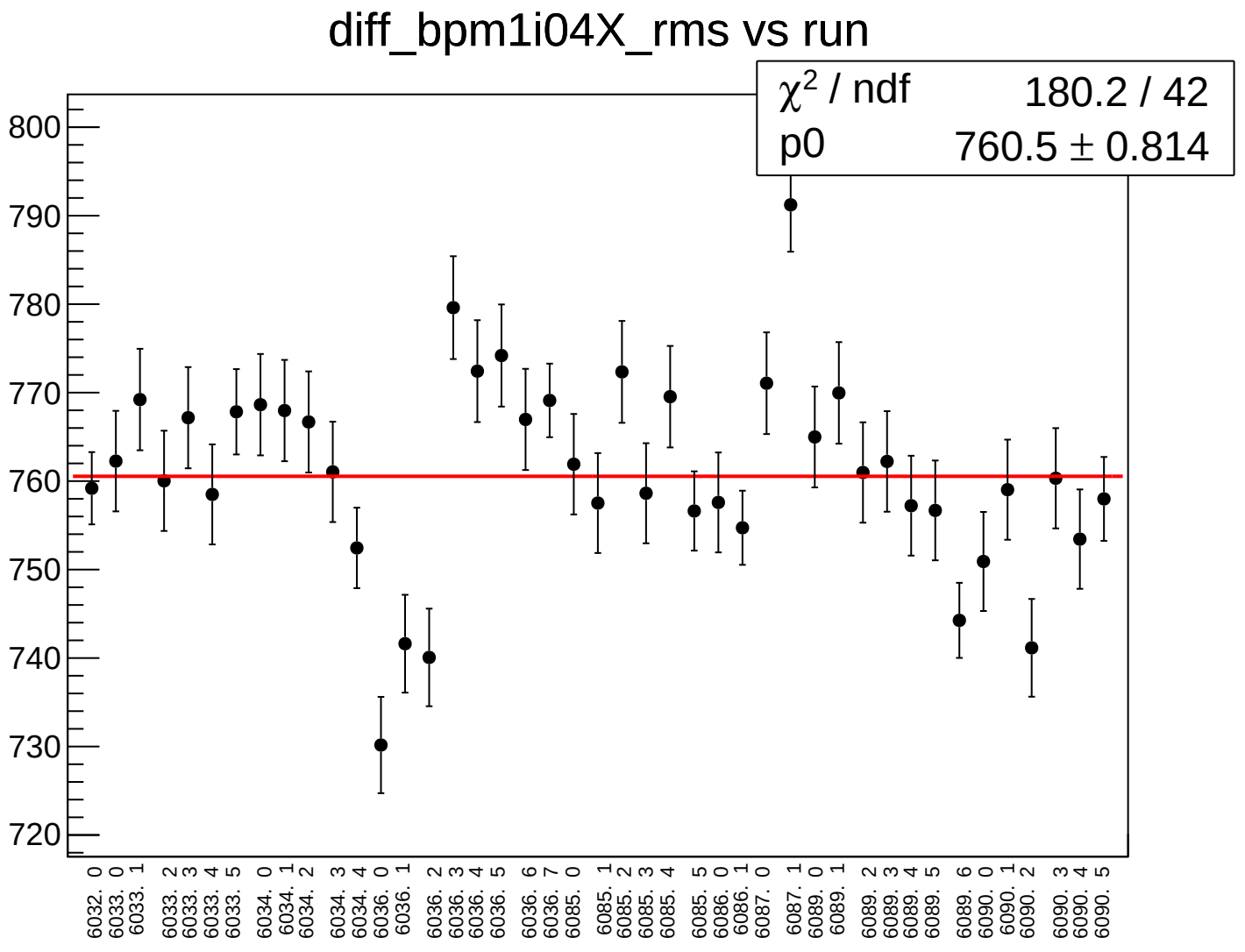

diff_bpm1i02Y_mean vs run
χ² / ndf 47.79 / 42
p0 80.76 ± 0.9
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.096
Std Dev 15.68
2
1
0
−1
−2

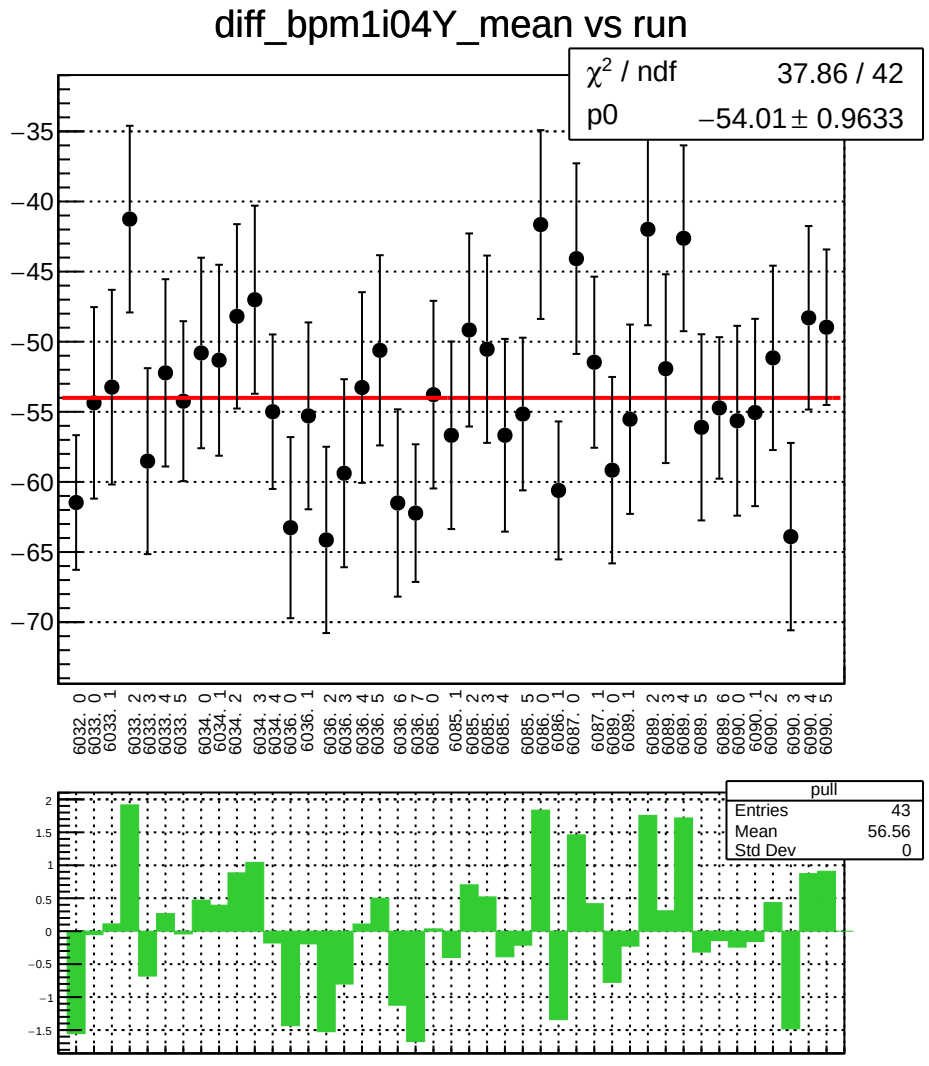

pull1D
Entries 43
Mean 0.001828
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

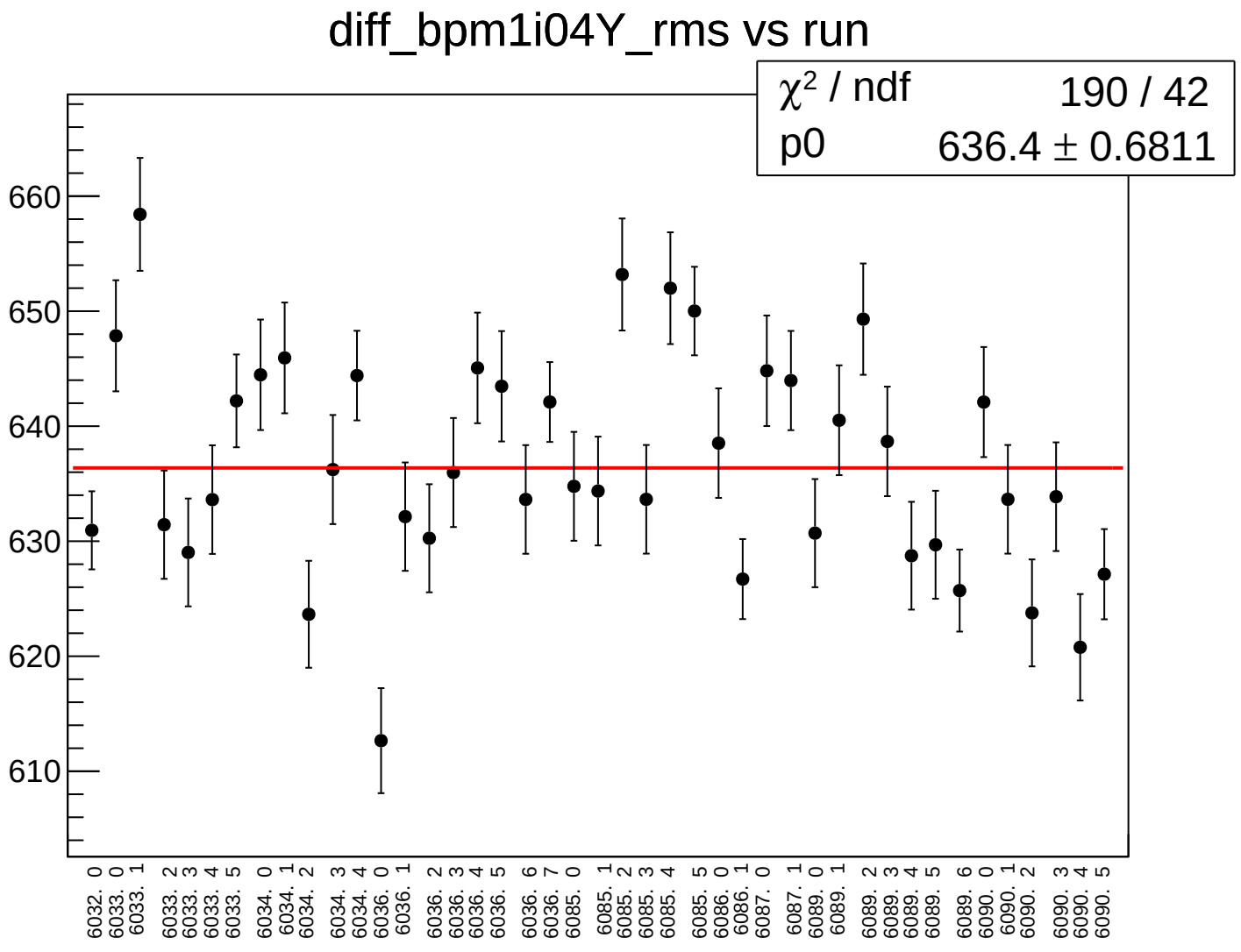

diff_bpm1i02Y_rms vs run
χ² / ndf 90.2 / 42
p0 594.6 ± 0.6364
615
610
605
600
595
590
585
580
575
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

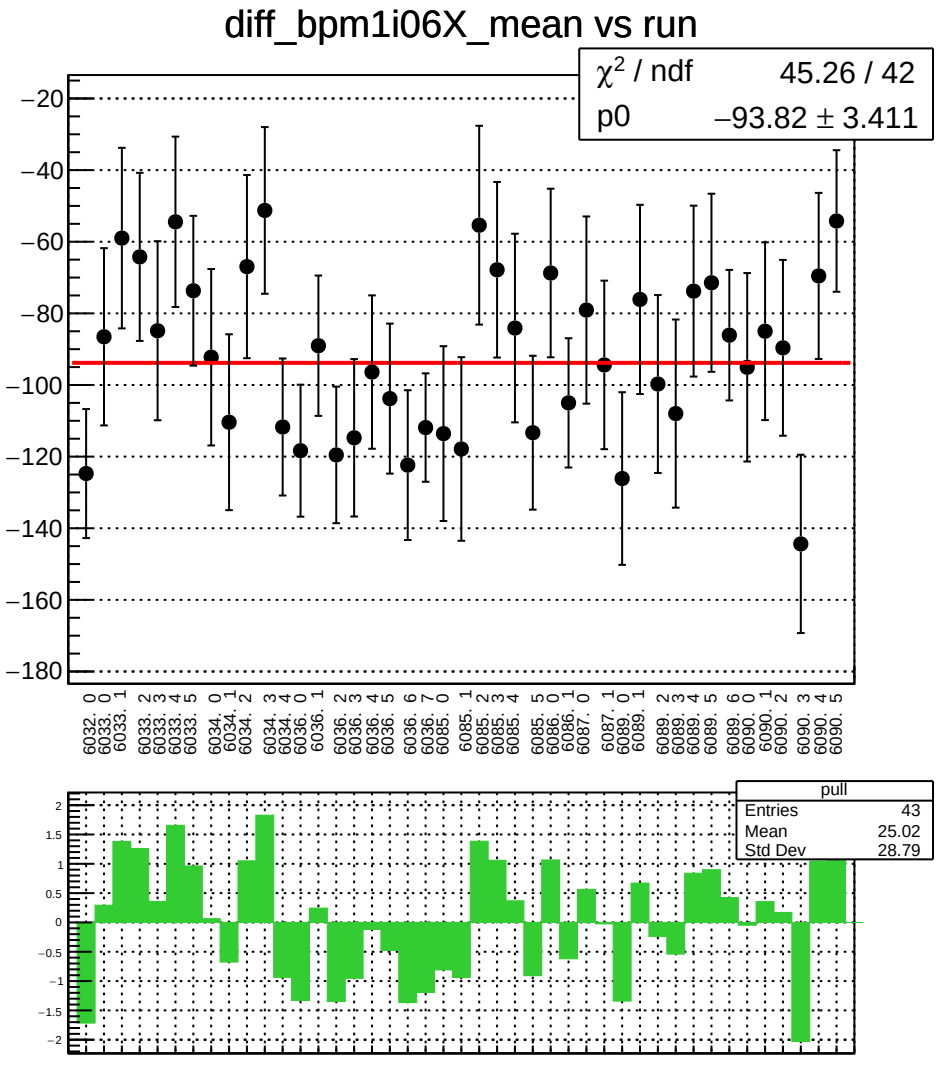

diff_bpm1i04X_mean vs run
χ² / ndf 53.97 / 42
p0 5.947 ± 1.151
30
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.96
Std Dev 25.5
2
1
0
−1
−2

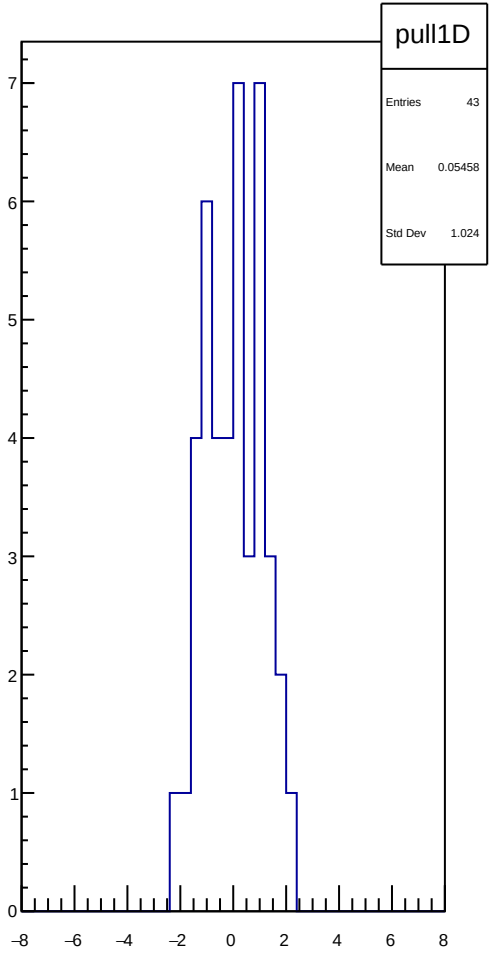

pull1D
Entries 43
Mean 0.02843
Std Dev 1.12
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

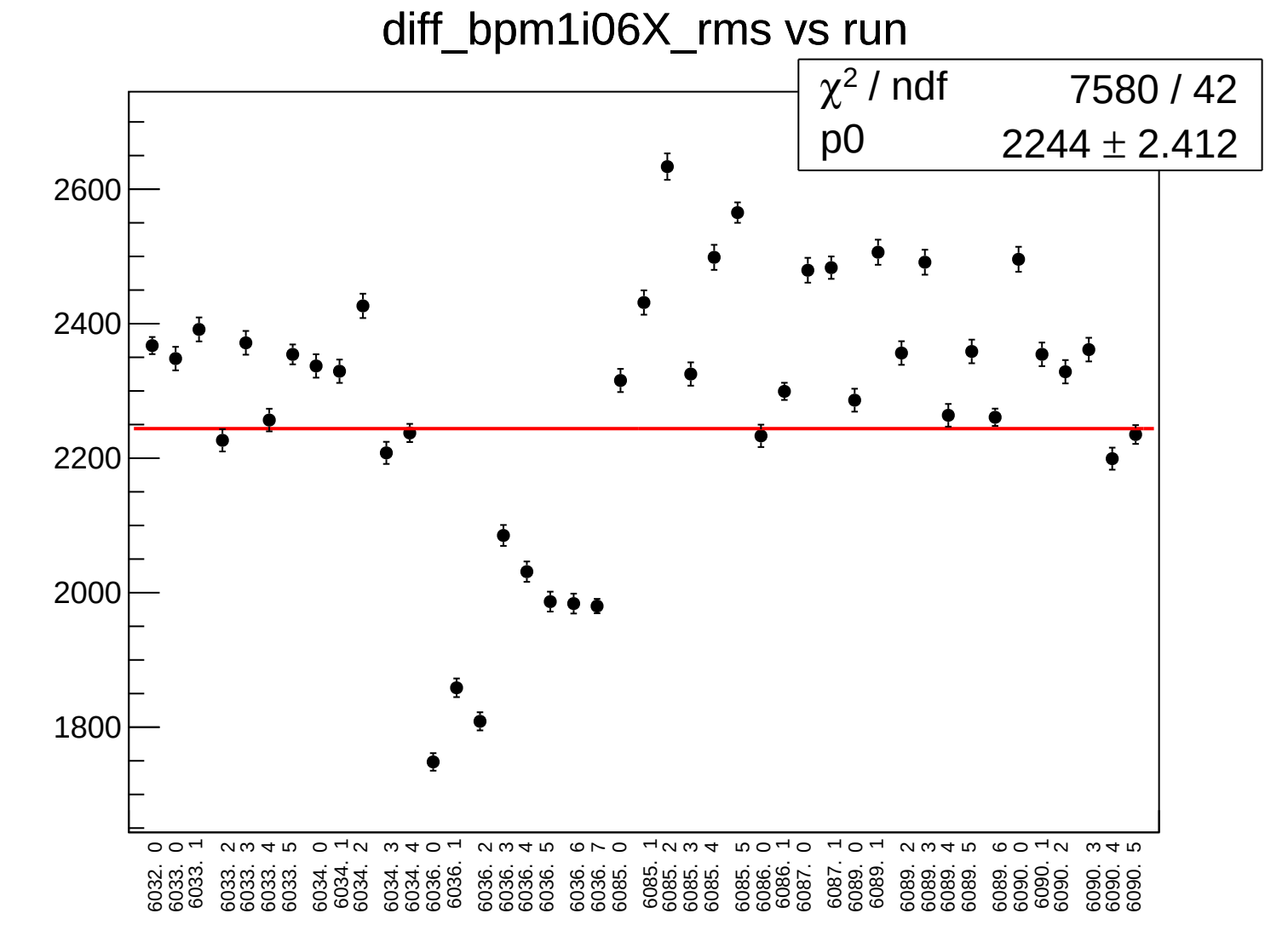

diff_bpm1i04X_rms vs run
χ² / ndf 180.2 / 42
p0 760.5 ± 0.814
800
790
780
770
760
750
740
730
720
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

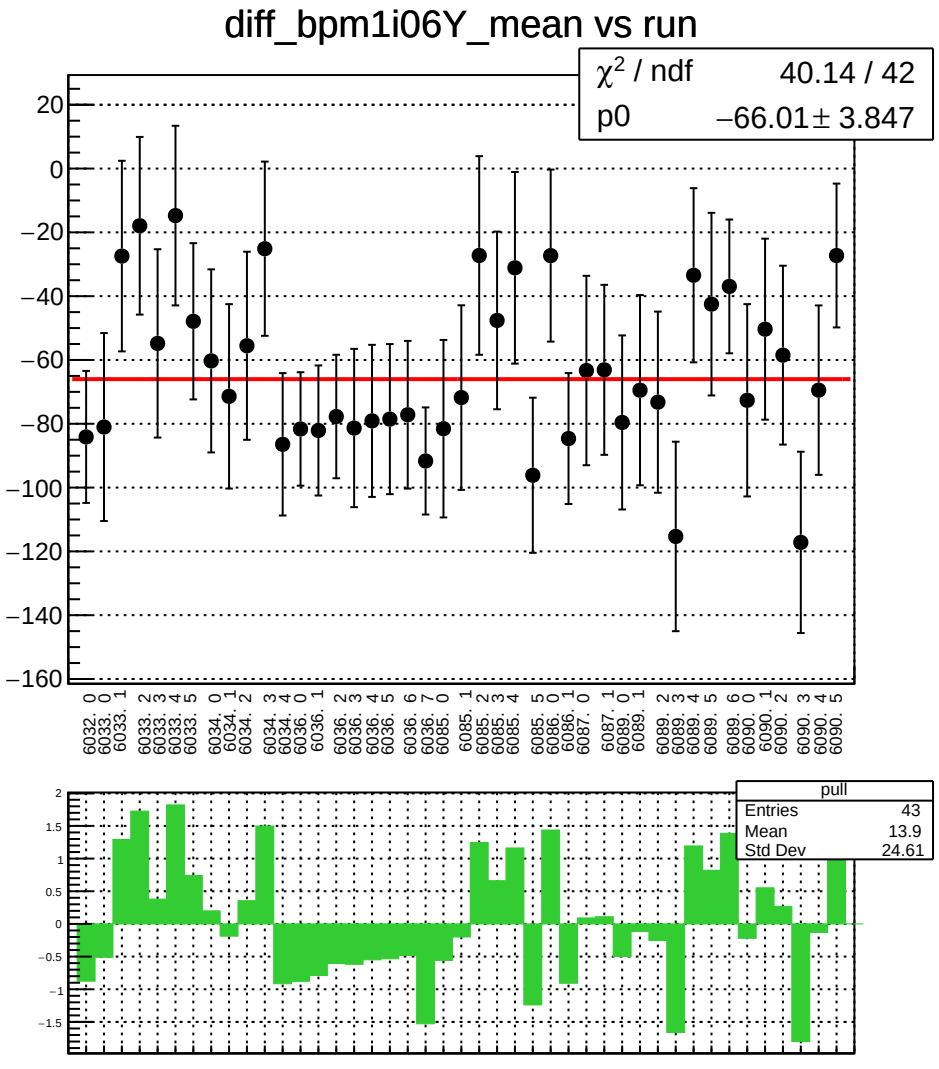

diff_bpm1i04Y_mean vs run
χ² / ndf 37.86 / 42
p0 −54.01 ± 0.9633
−35
−40
−45
−50
−55
−60
−65
−70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 56.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.04029
Std Dev 0.9374
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

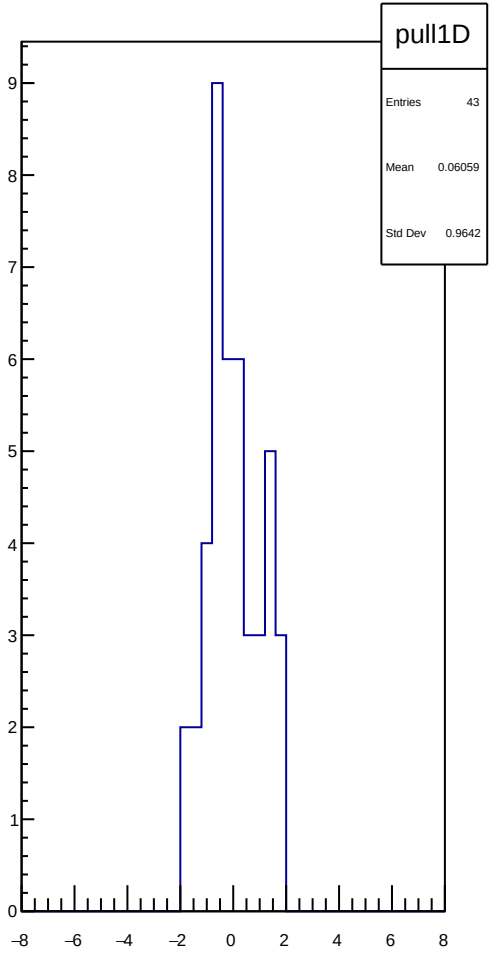

diff_bpm1i04Y_rms vs run
χ² / ndf 190 / 42
p0 636.4 ± 0.6811
660
650
640
630
620
610
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

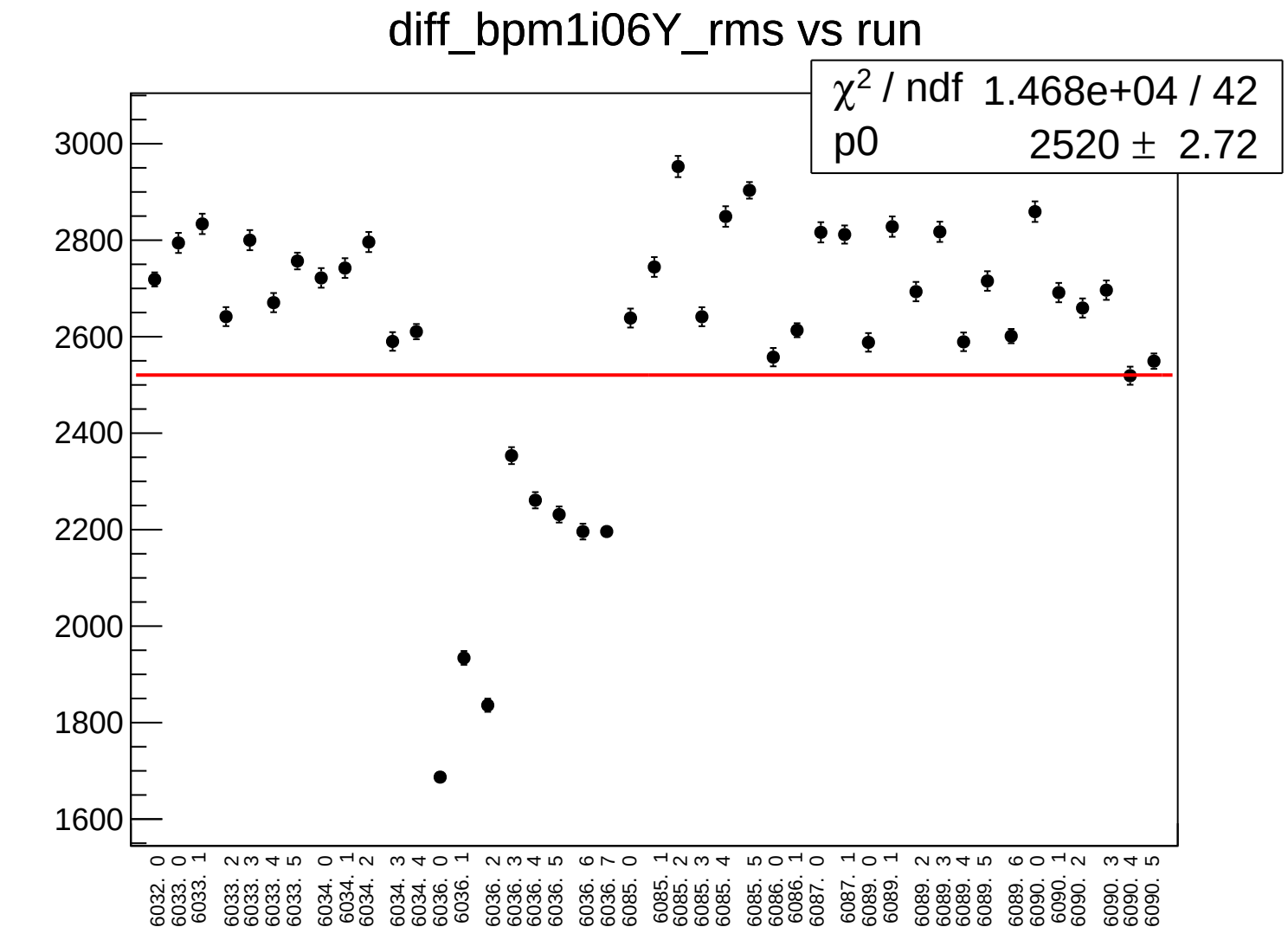

diff_bpm1i06X_mean vs run
χ² / ndf 45.26 / 42
p0 −93.82 ± 3.411
−20
−40
−60
−80
−100
−120
−140
−160
−180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 25.02
Std Dev 28.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

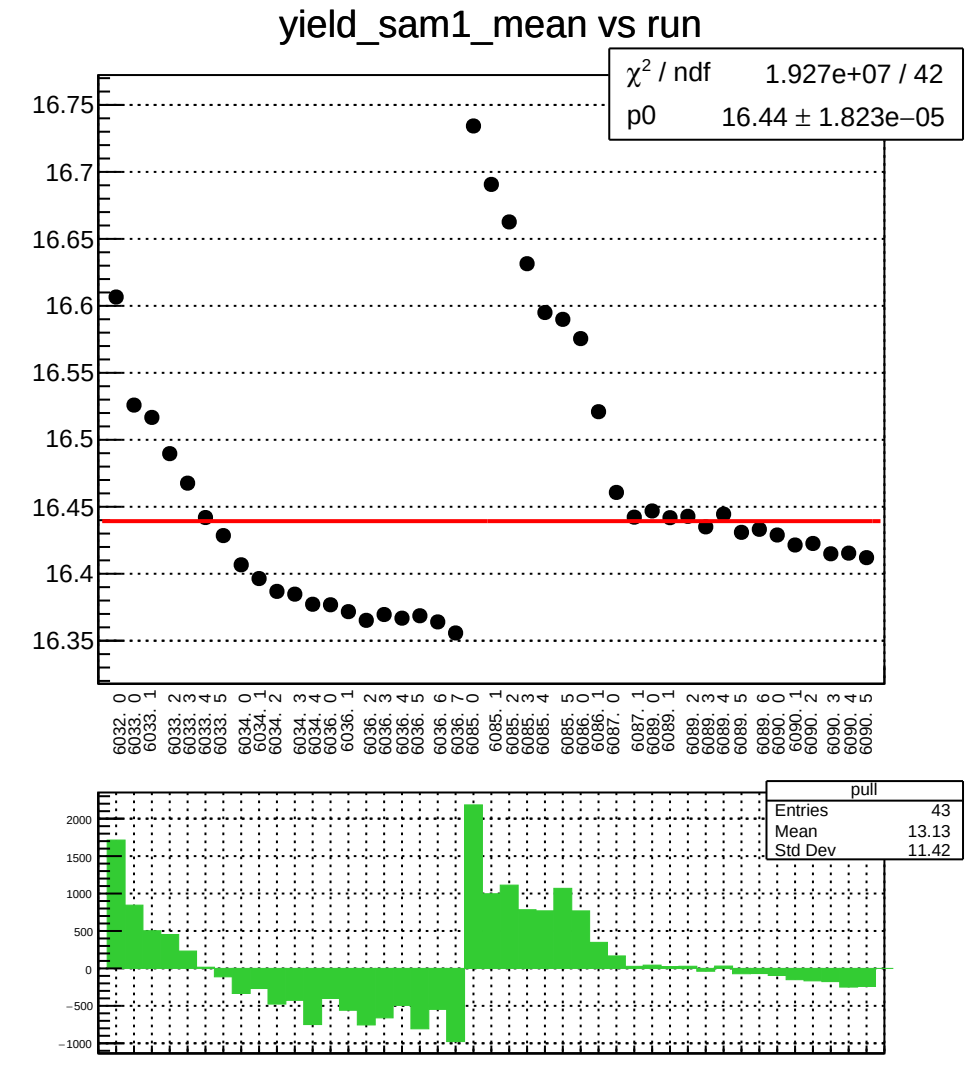

pull1D
Entries 43
Mean 0.05458
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

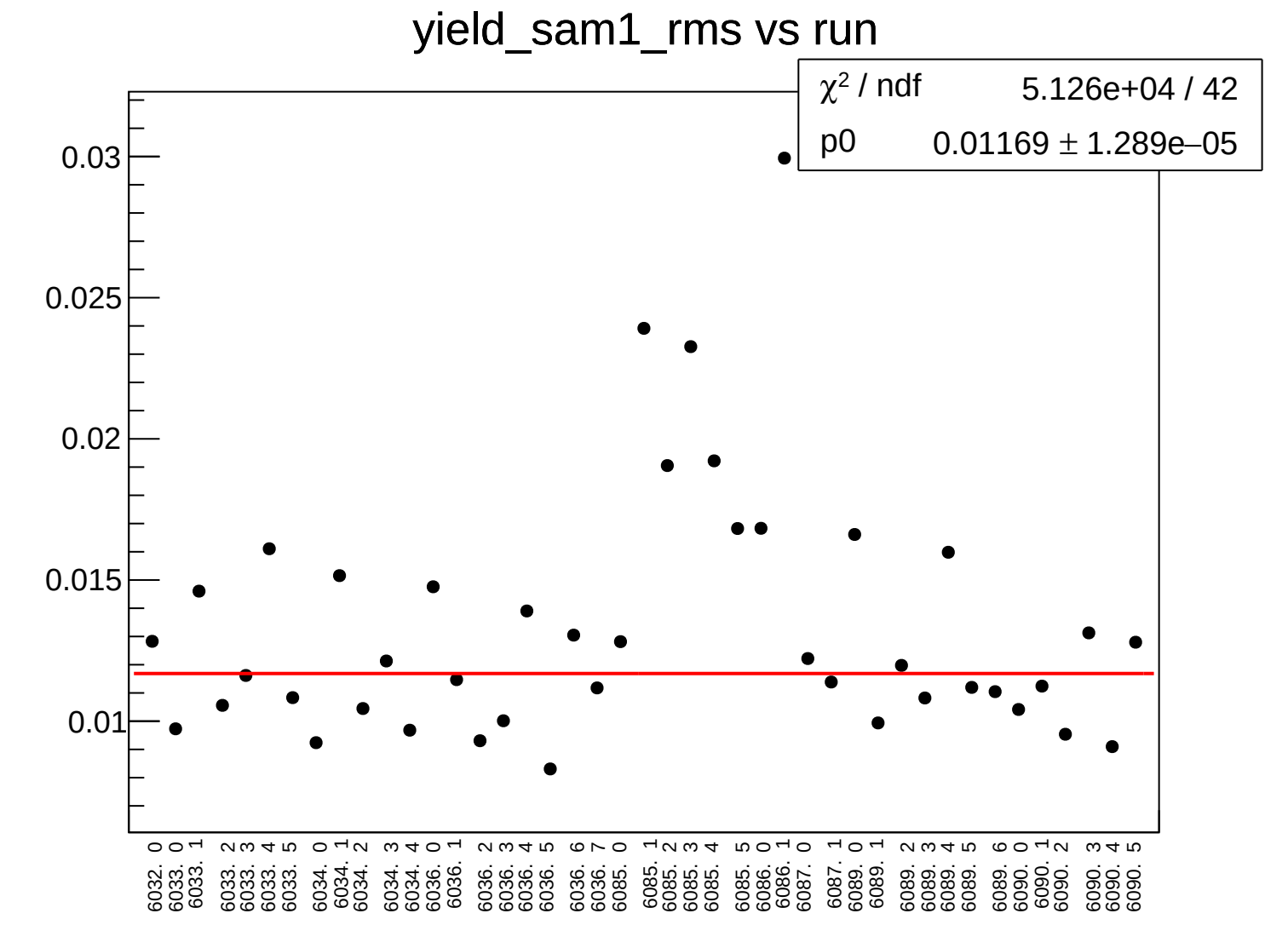

diff_bpm1i06X_rms vs run
χ² / ndf 7580 / 42
p0 2244 ± 2.412
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

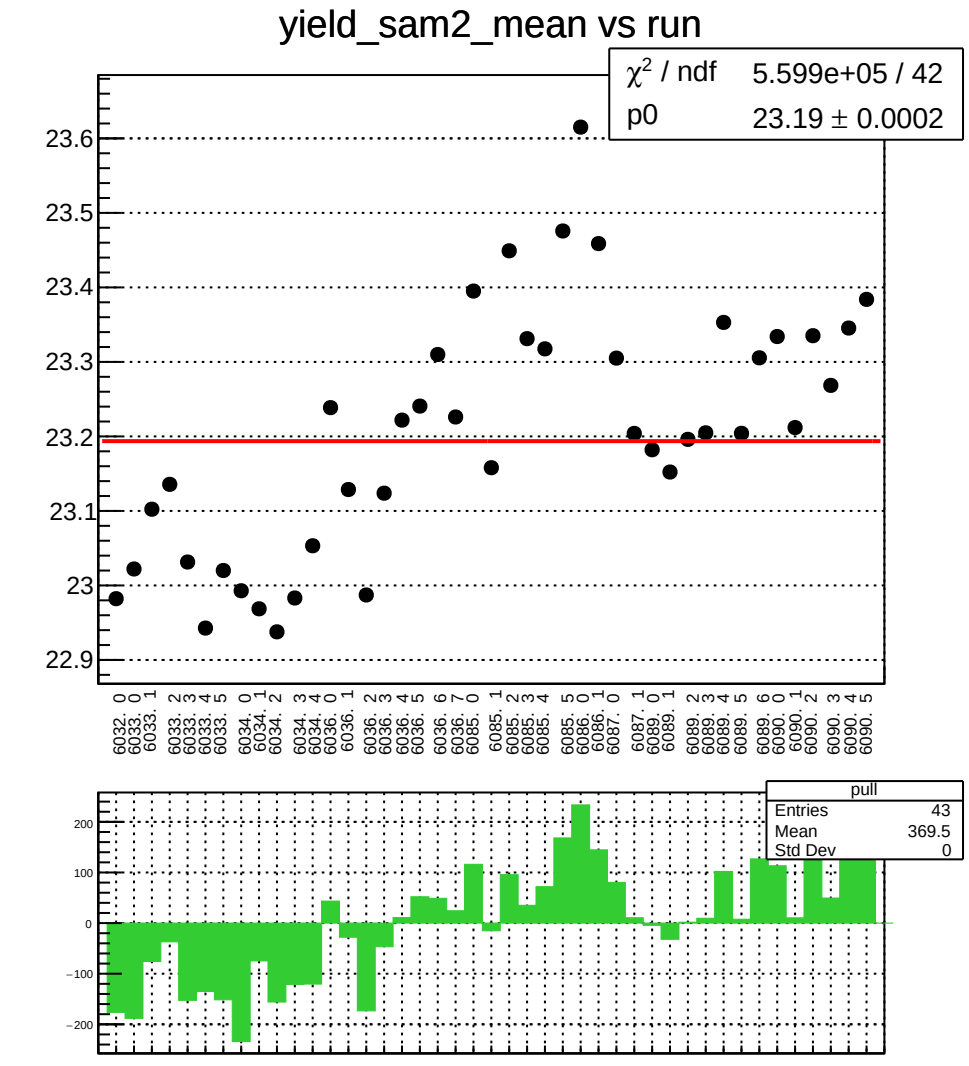

diff_bpm1i06Y_mean vs run
χ² / ndf 40.14 / 42
p0 −66.01± 3.847
pull
Entries 43
Mean 13.9
Std Dev 24.61

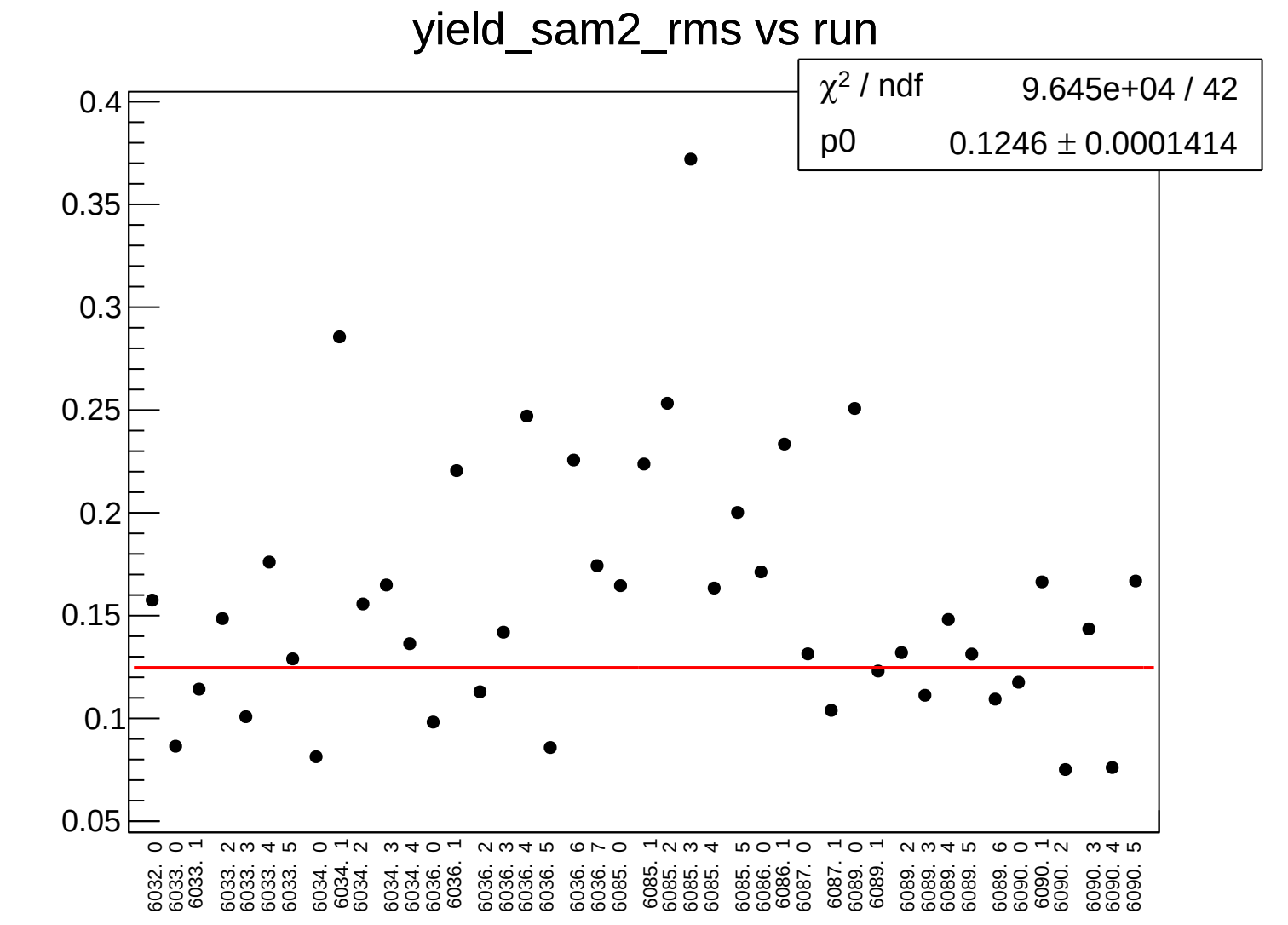

pull1D
Entries 43
Mean 0.06059
Std Dev 0.9642

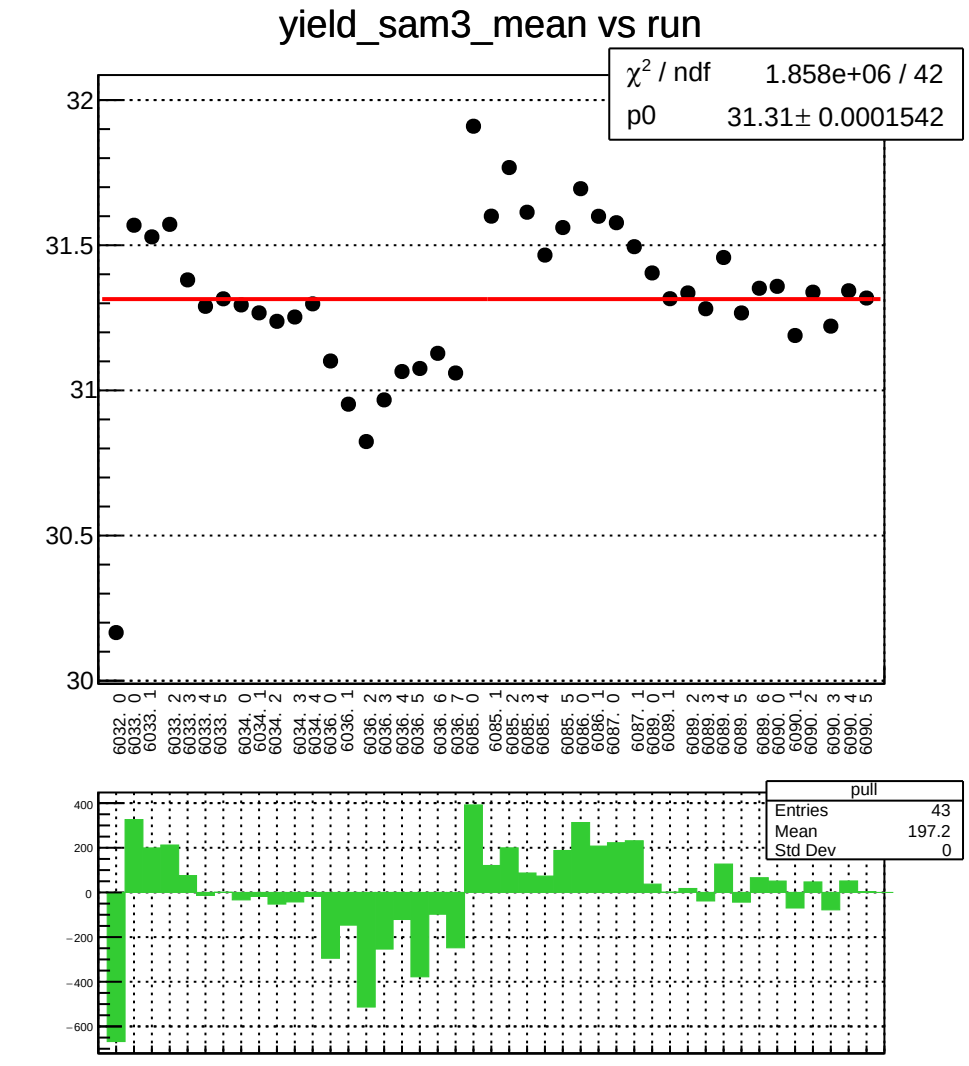

diff_bpm1i06Y_rms vs run
χ² / ndf 1.468e+04 / 42
p0 2520 ± 2.72
3000
2800
2600
2400
2200
2000
1800
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

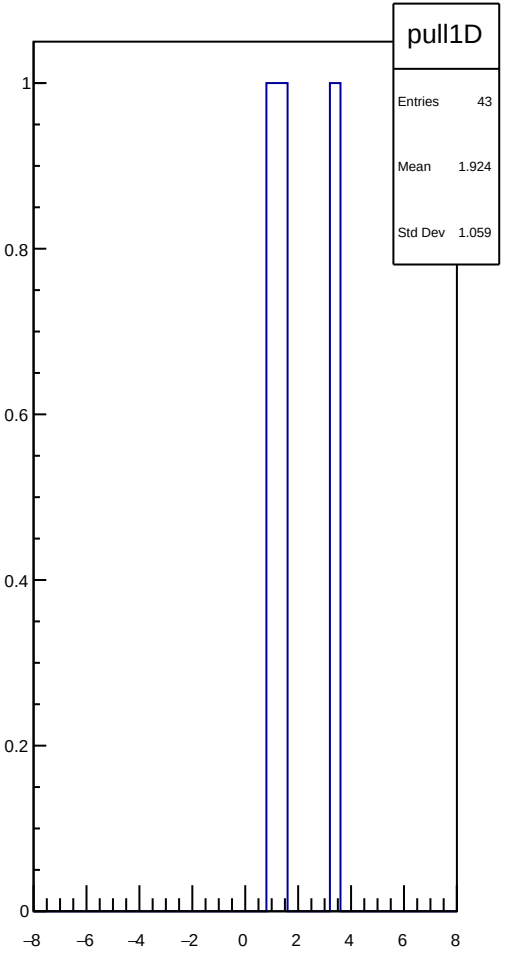

yield_sam1_mean vs run
χ² / ndf 1.927e+07 / 42
p0 16.44 ± 1.823e−05
16.75
16.7
16.65
16.6
16.55
16.5
16.45
16.4
16.35
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.13
Std Dev 11.42
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

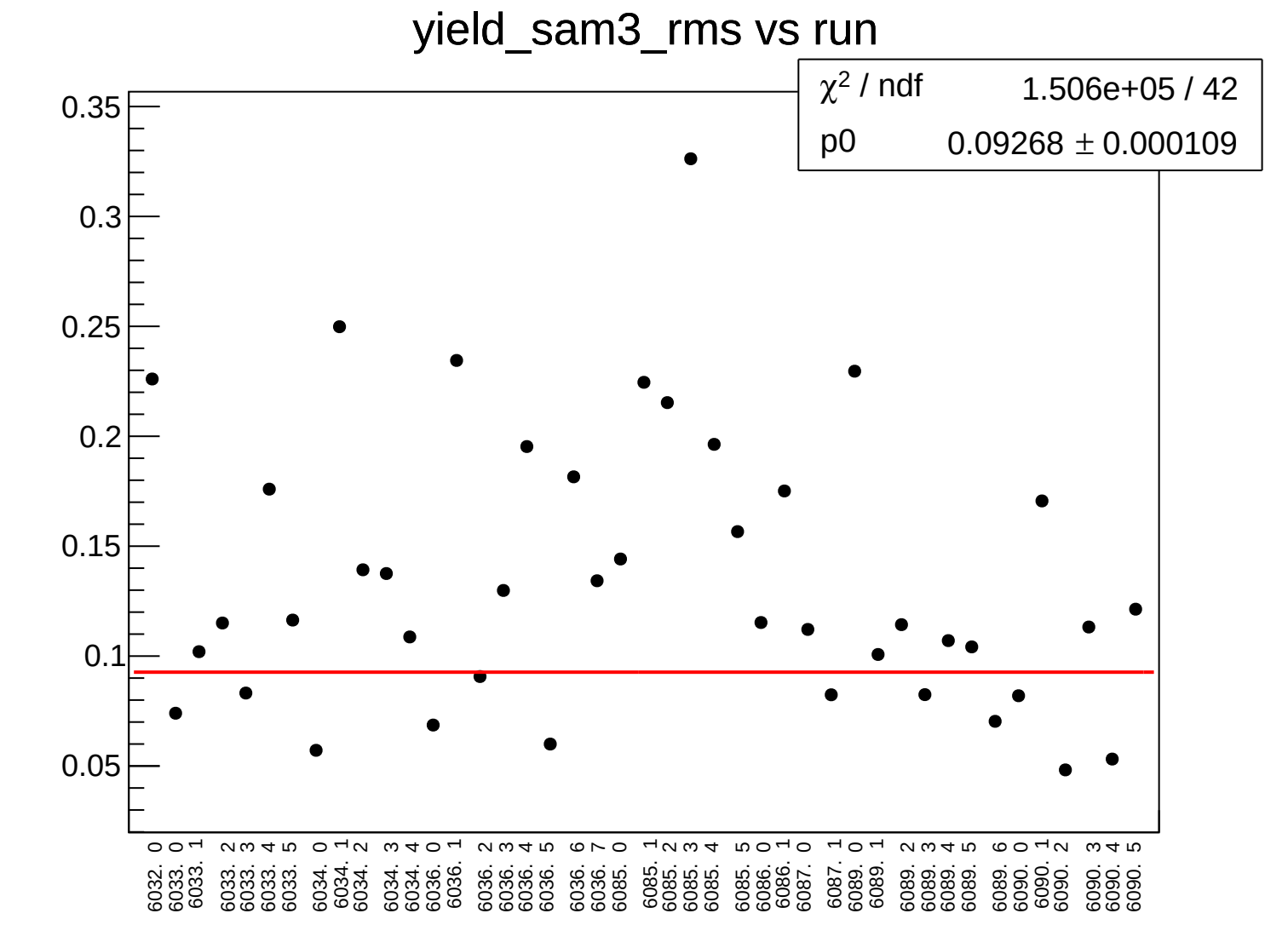

yield_sam1_rms vs run
χ² / ndf 5.126e+04 / 42
p0 0.01169 ± 1.289e−05
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

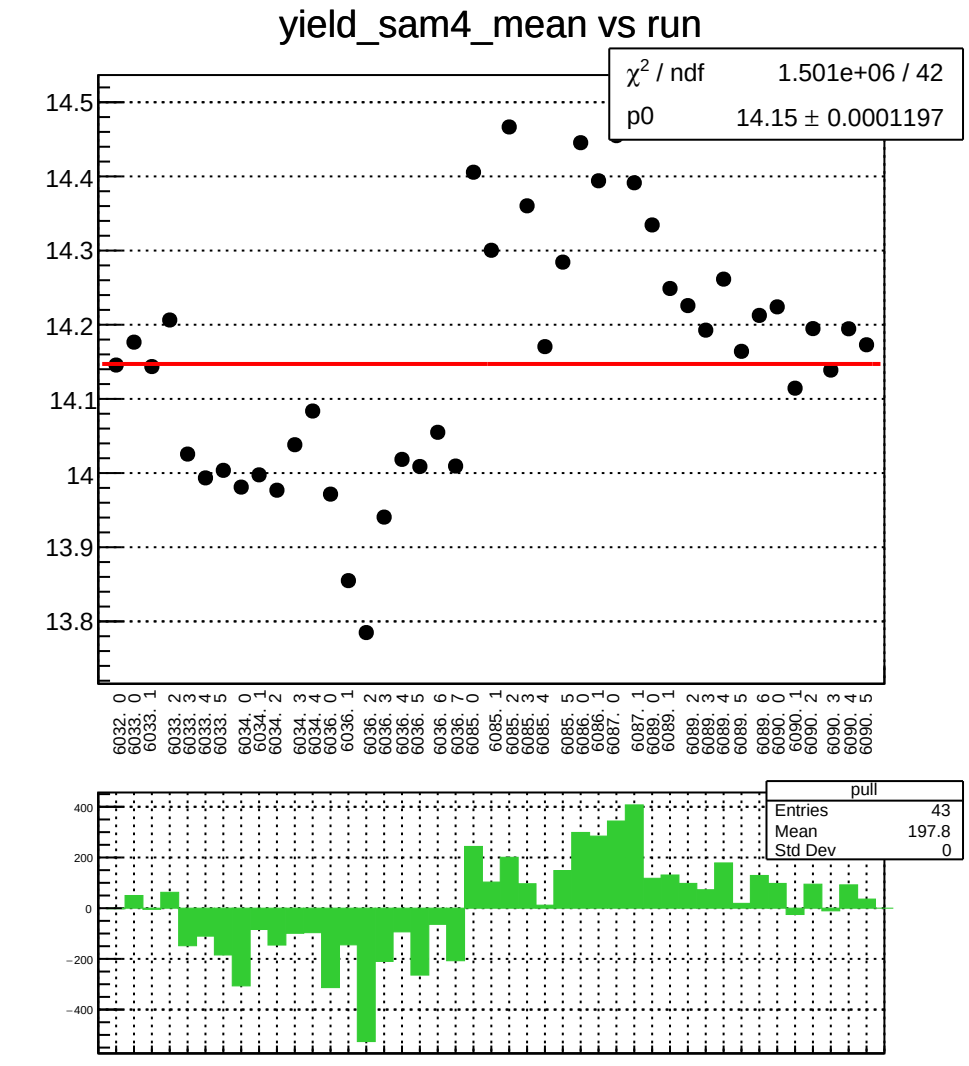

yield_sam2_mean vs run
χ² / ndf 5.599e+05 / 42
p0 23.19 ± 0.0002
23.6
23.5
23.4
23.3
23.2
23.1
23
22.9
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 369.5
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 43
Mean 1.641
Std Dev 4.876
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

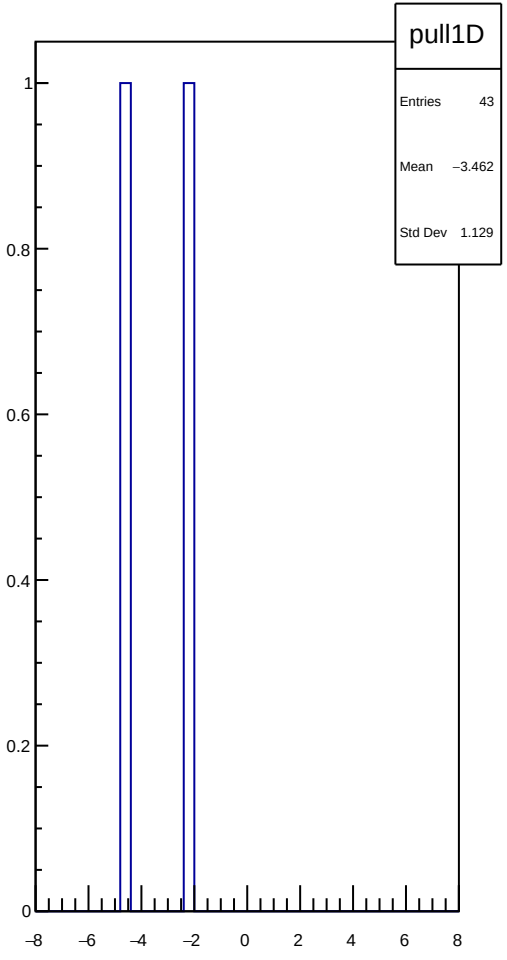

yield_sam2_rms vs run
χ² / ndf 9.645e+04 / 42
p0 0.1246 ± 0.0001414
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

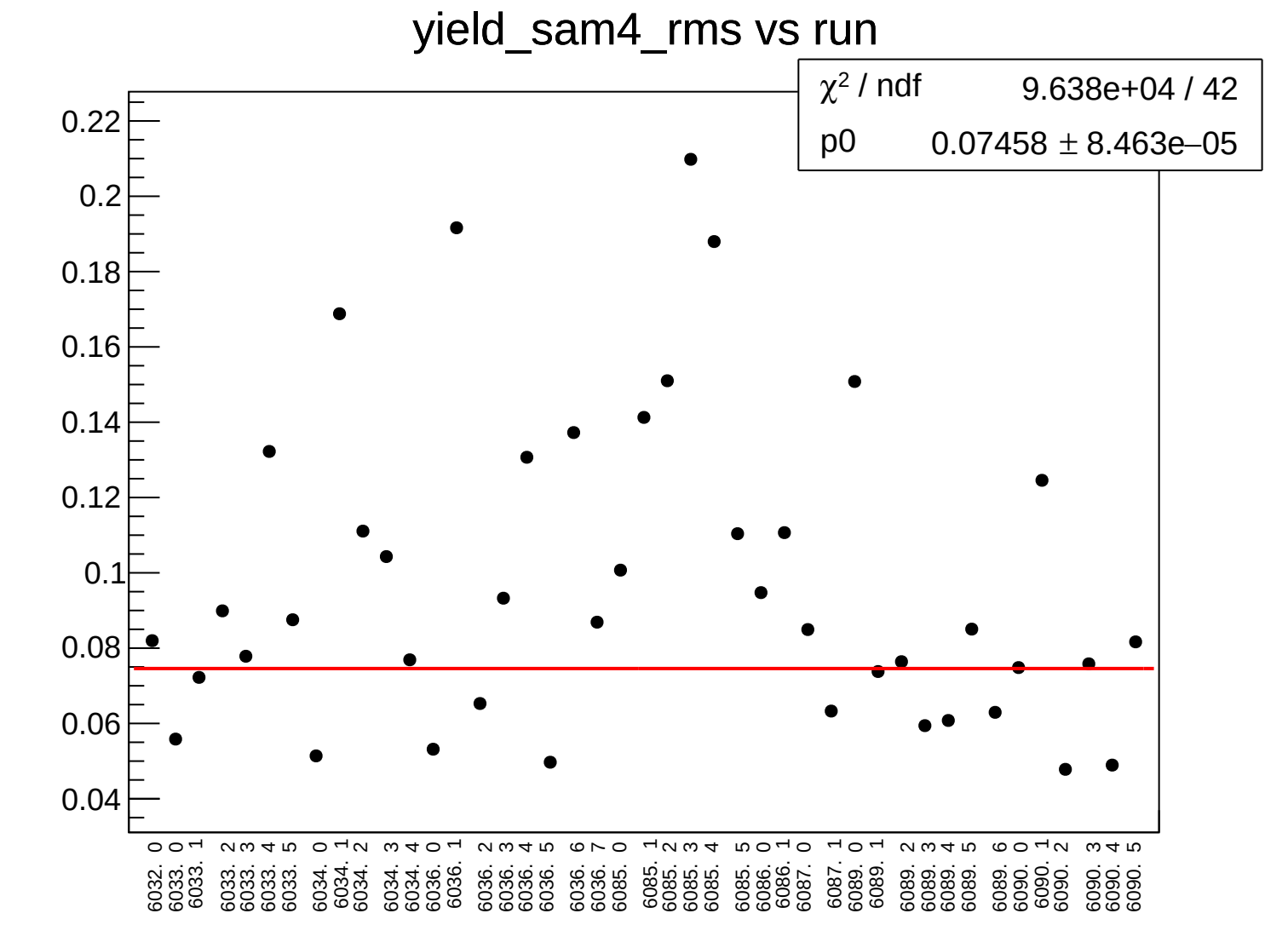

yield_sam3_mean vs run
χ² / ndf 1.858e+06 / 42
p0 31.31± 0.0001542
32
31.5
31
30.5
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 197.2
Std Dev 0
400
200
0
−200
−400
−600

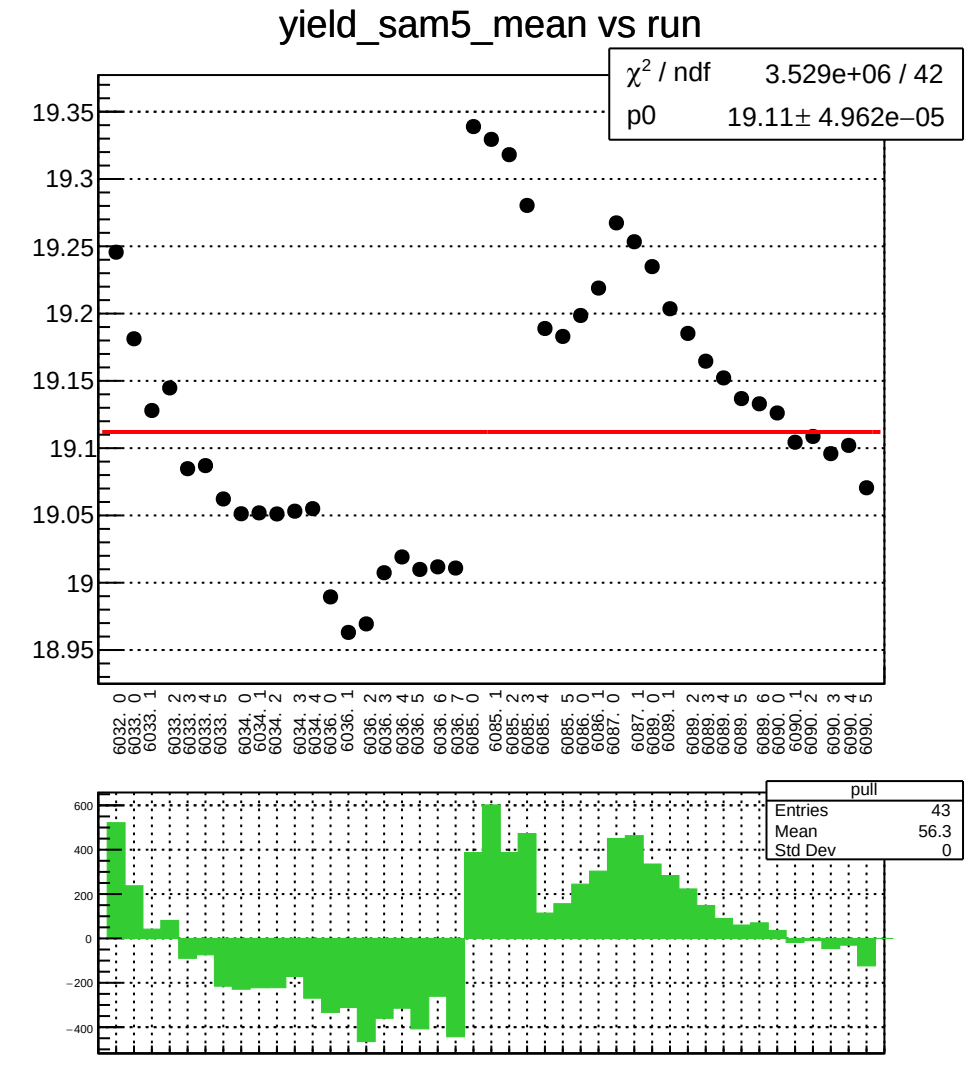

pull1D
Entries 43
Mean 1.924
Std Dev 1.059
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

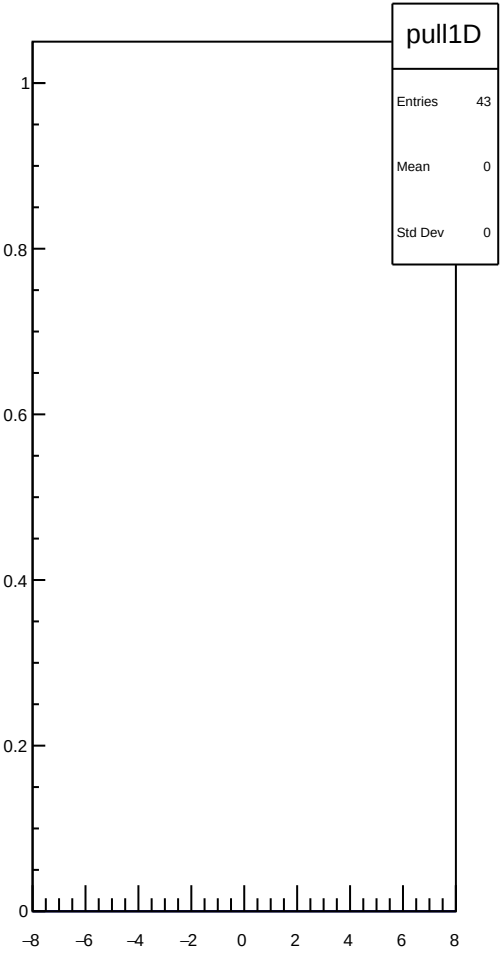

yield_sam3_rms vs run
χ² / ndf 1.506e+05 / 42
p0 0.09268 ± 0.000109
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

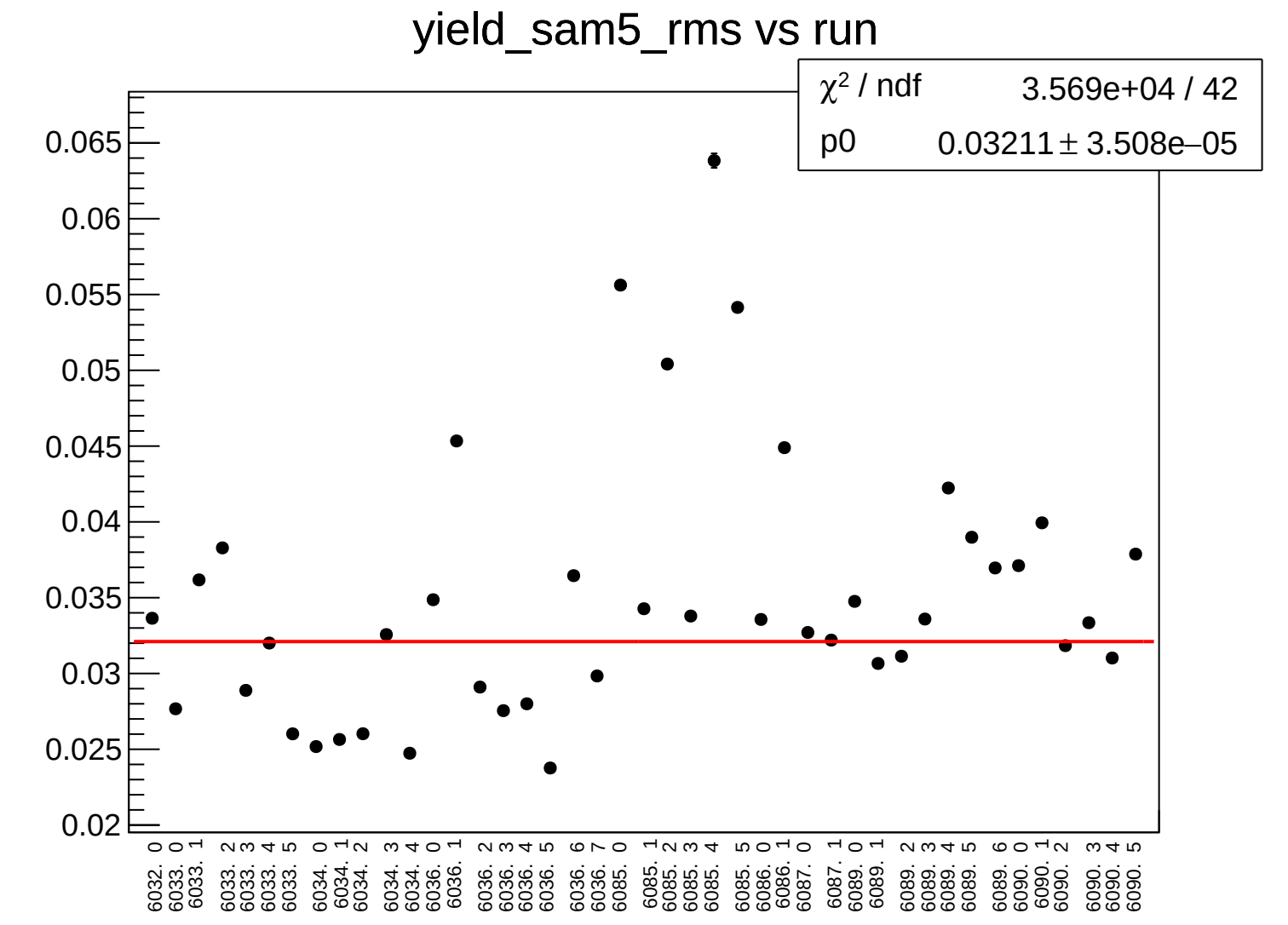

yield_sam4_mean vs run
χ² / ndf 1.501e+06 / 42
p0 14.15 ± 0.0001197
14.5
14.4
14.3
14.2
14.1
14
13.9
13.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 197.8
Std Dev 0
400
200
0
−200
−400

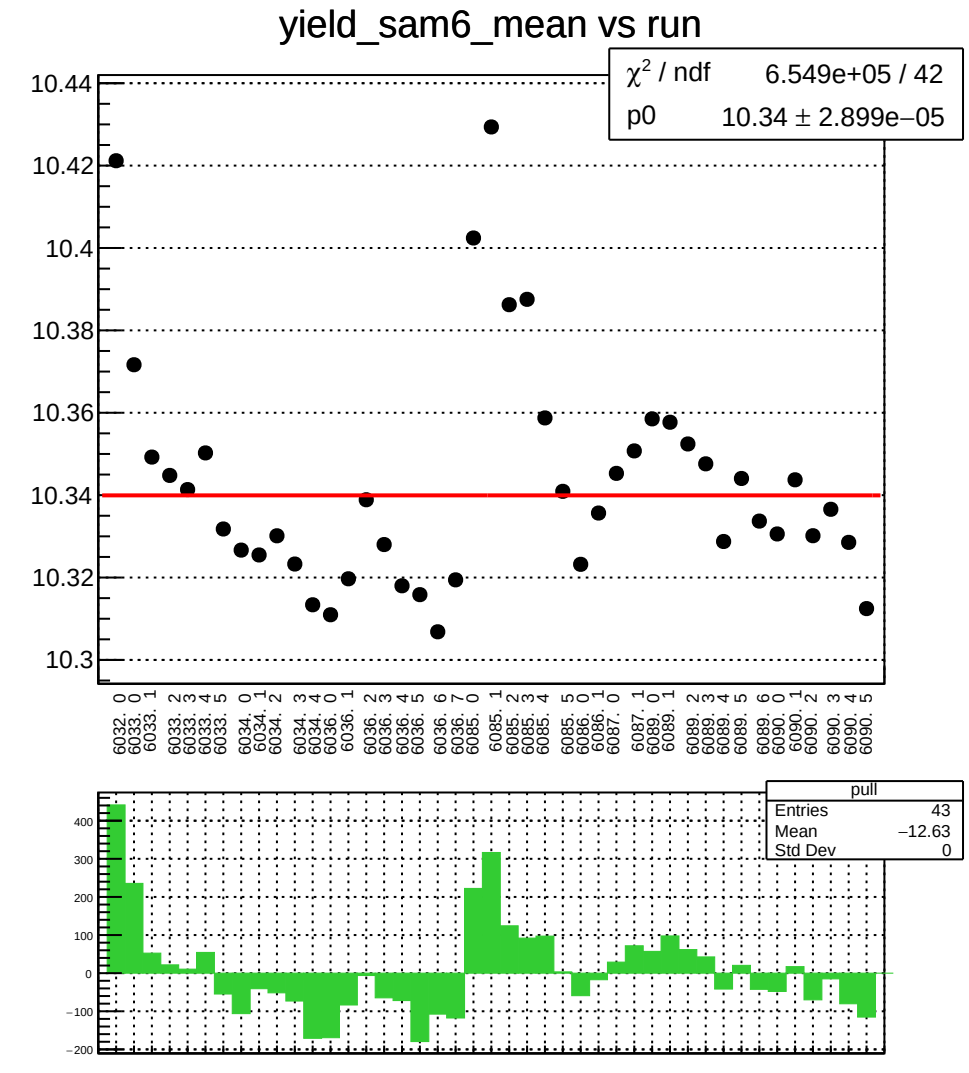

pull1D
Entries 43
Mean −3.462
Std Dev 1.129
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

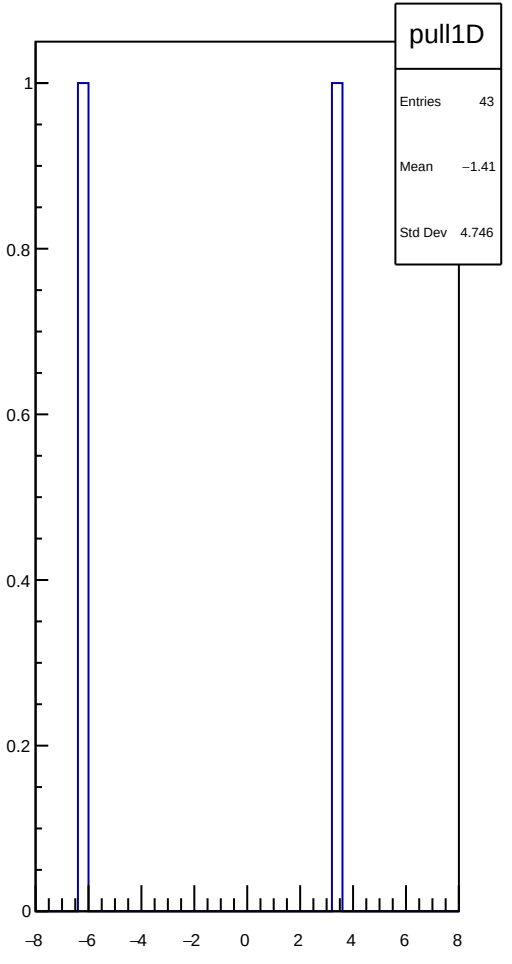

yield_sam4_rms vs run
χ² / ndf 9.638e+04 / 42
p0 0.07458 ± 8.463e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

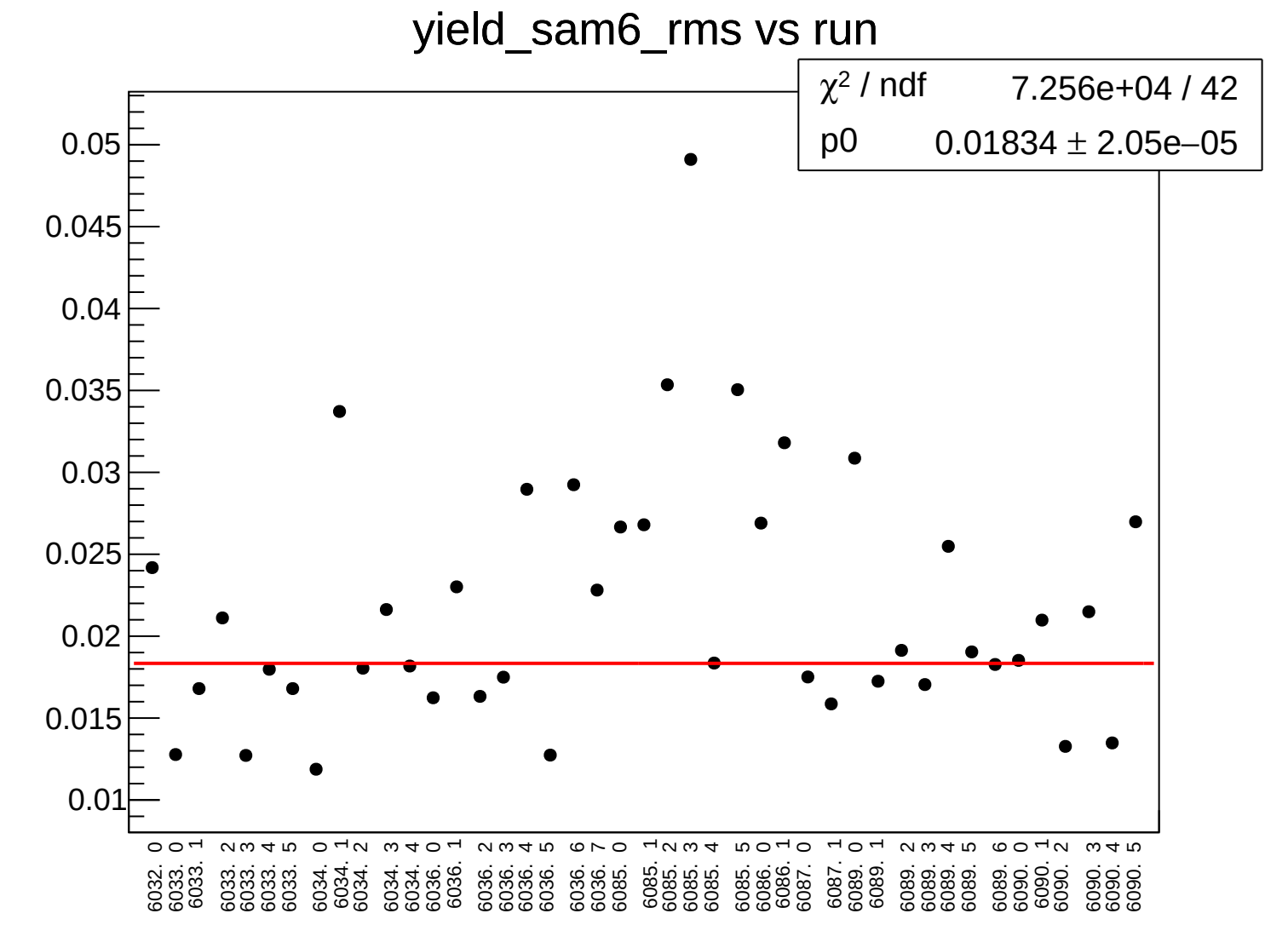

yield_sam5_mean vs run
χ² / ndf 3.529e+06 / 42
p0 19.11± 4.962e−05
19.35
19.3
19.25
19.2
19.15
19.1
19.05
19
18.95
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 56.3
Std Dev 0
600
400
200
0
−200
−400

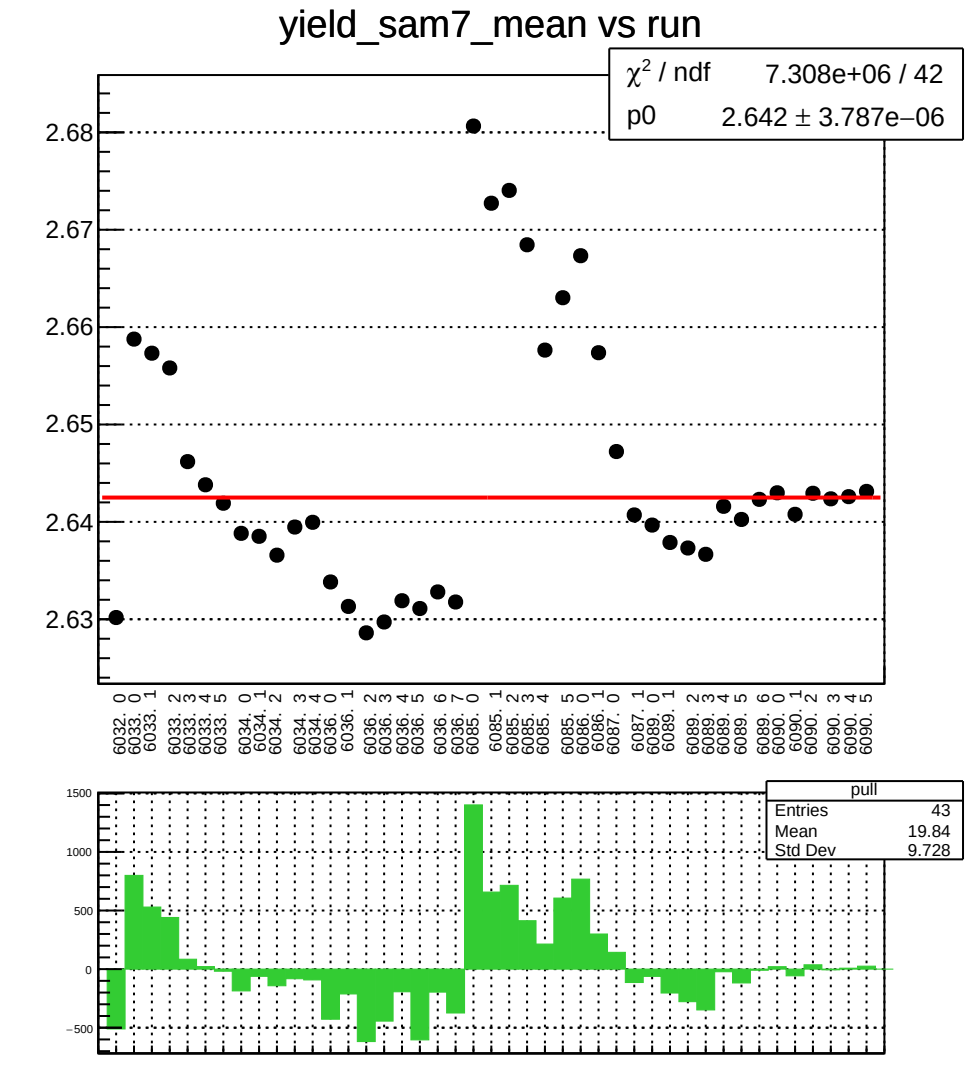

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

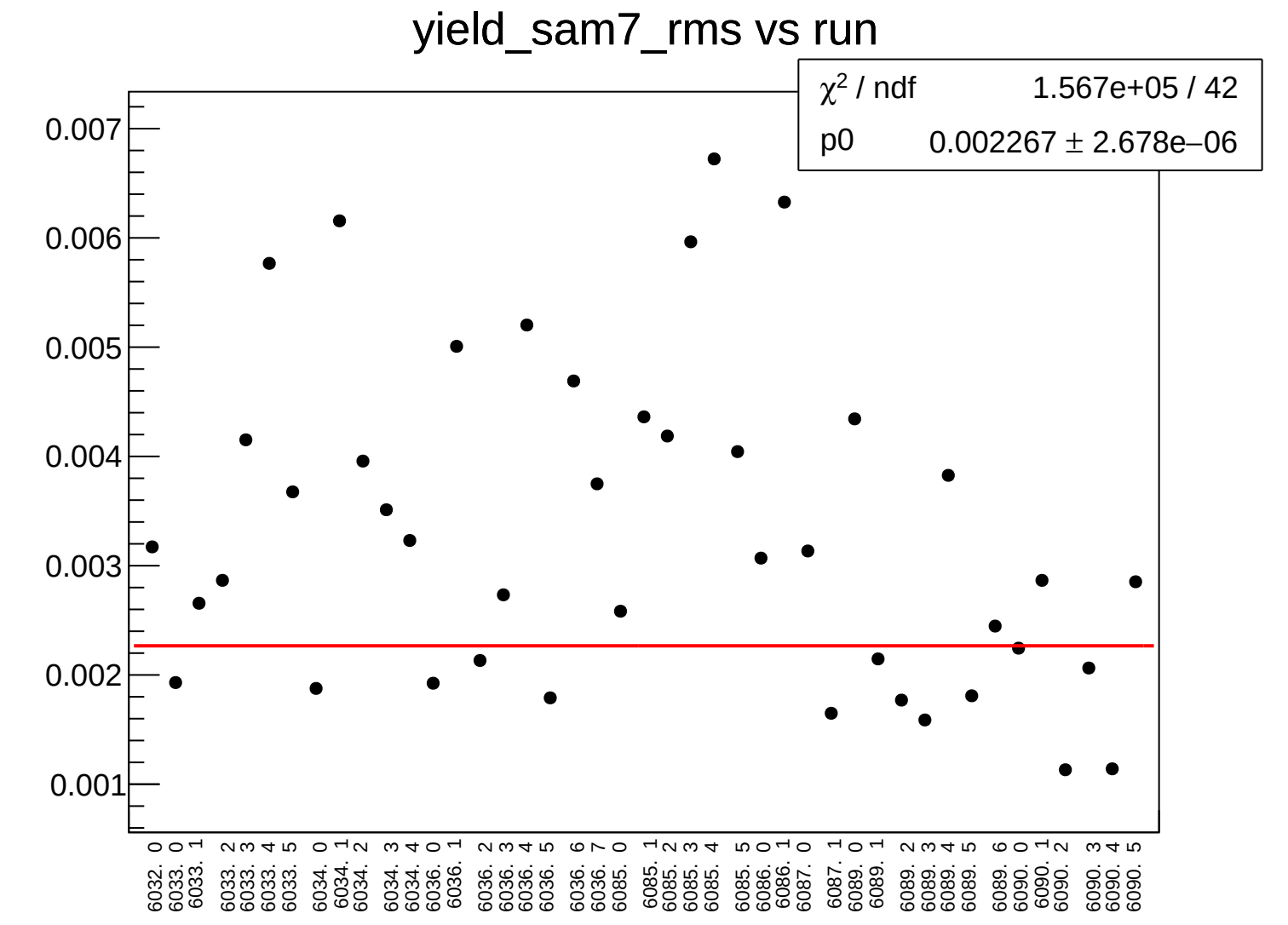

yield_sam5_rms vs run
χ² / ndf 3.569e+04 / 42
p0 0.03211 ± 3.508e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

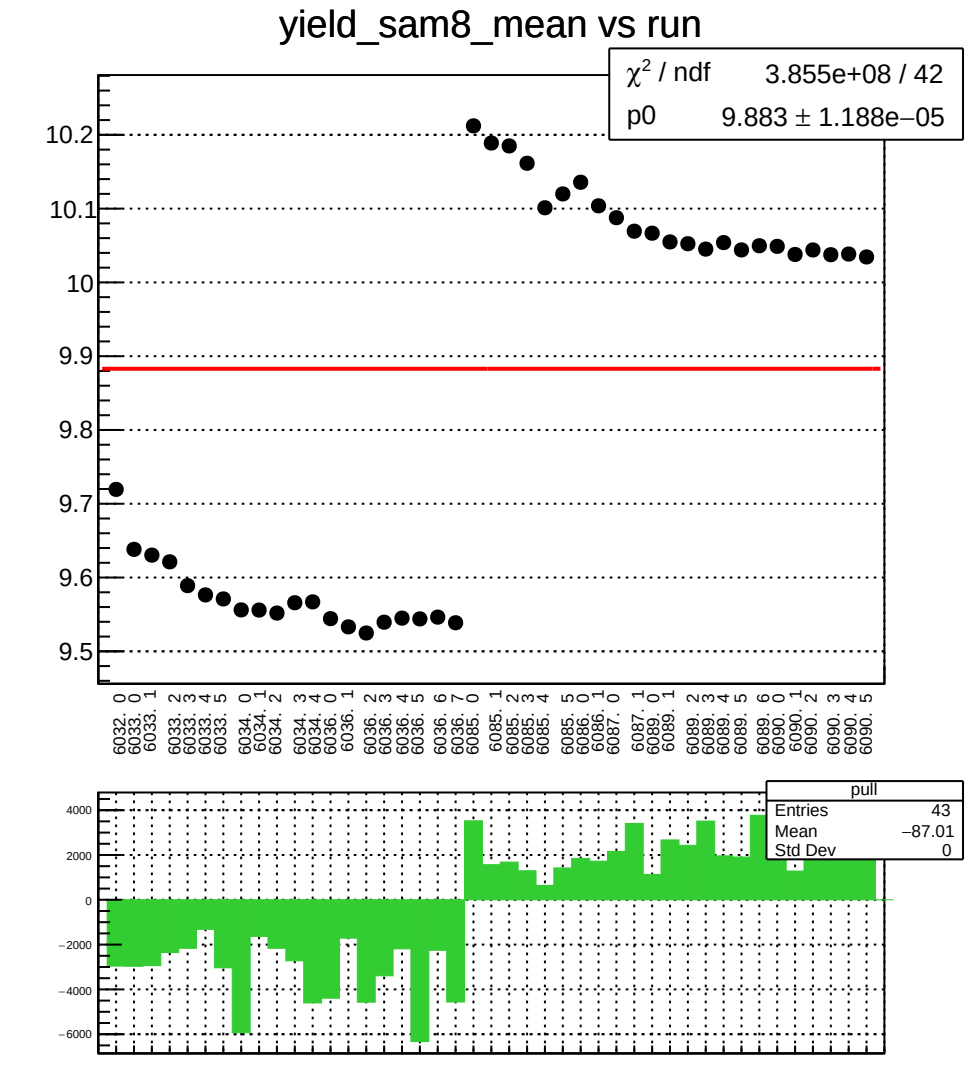

yield_sam6_mean vs run
χ² / ndf 6.549e+05 / 42
p0 10.34 ± 2.899e−05
10.44
10.42
10.4
10.38
10.36
10.34
10.32
10.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −12.63
Std Dev 0
400
300
200
100
0
−100
−200

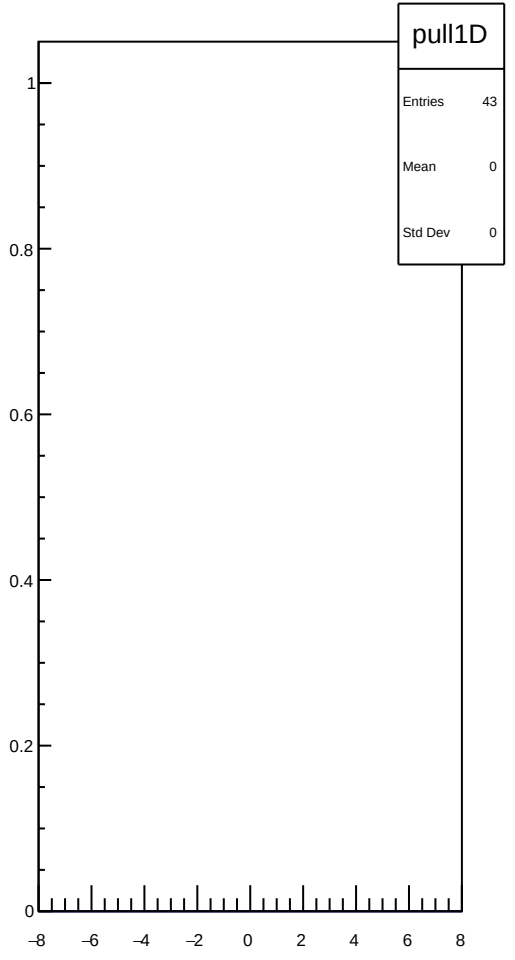

pull1D
Entries 43
Mean −1.41
Std Dev 4.746
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

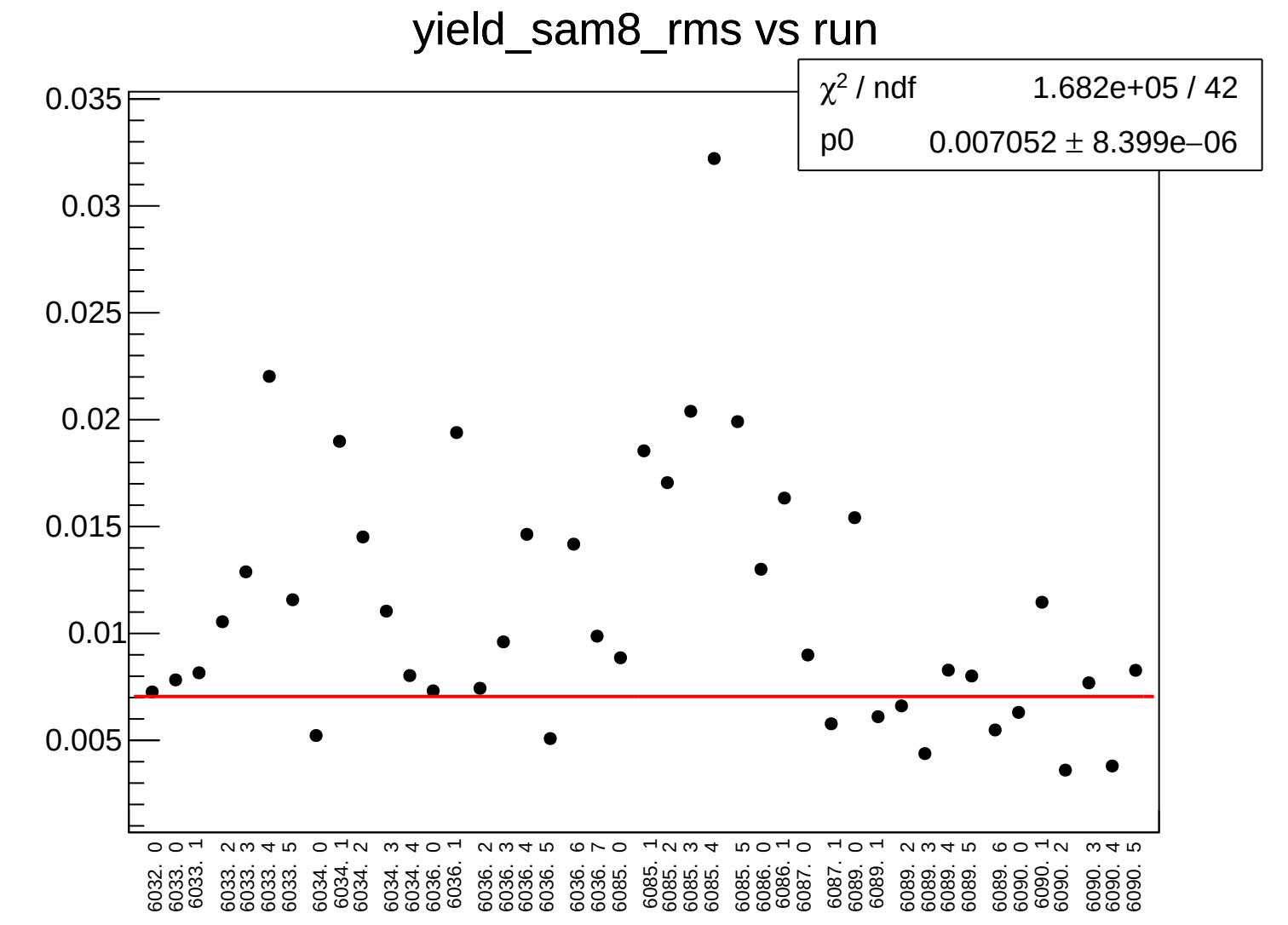

yield_sam6_rms vs run
χ² / ndf 7.256e+04 / 42
p0 0.01834 ± 2.05e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

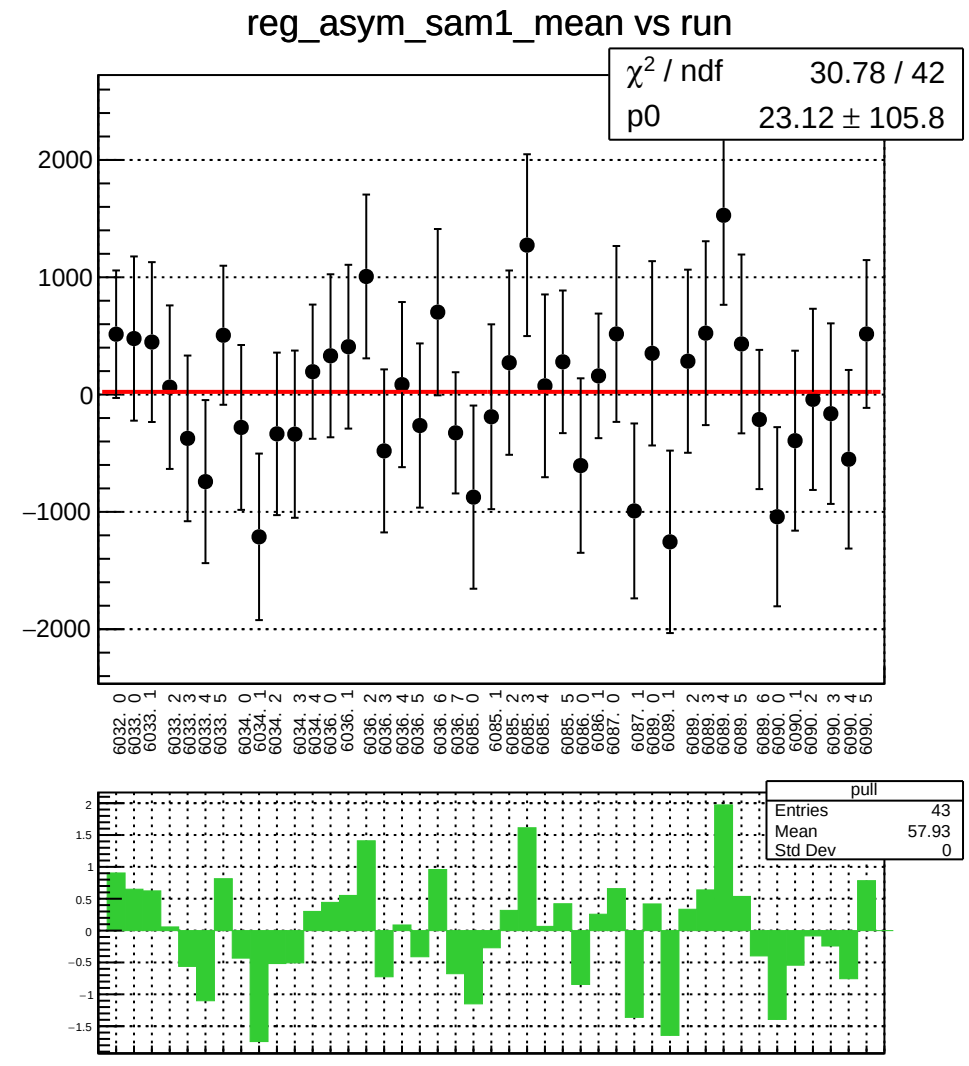

yield_sam7_mean vs run
χ² / ndf 7.308e+06 / 42
p0 2.642 ± 3.787e−06
2.68
2.67
2.66
2.65
2.64
2.63
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.84
Std Dev 9.728
1500
1000
500
0
−500
pull1D
Entries 43
Mean 0.9177
Std Dev 6.888
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

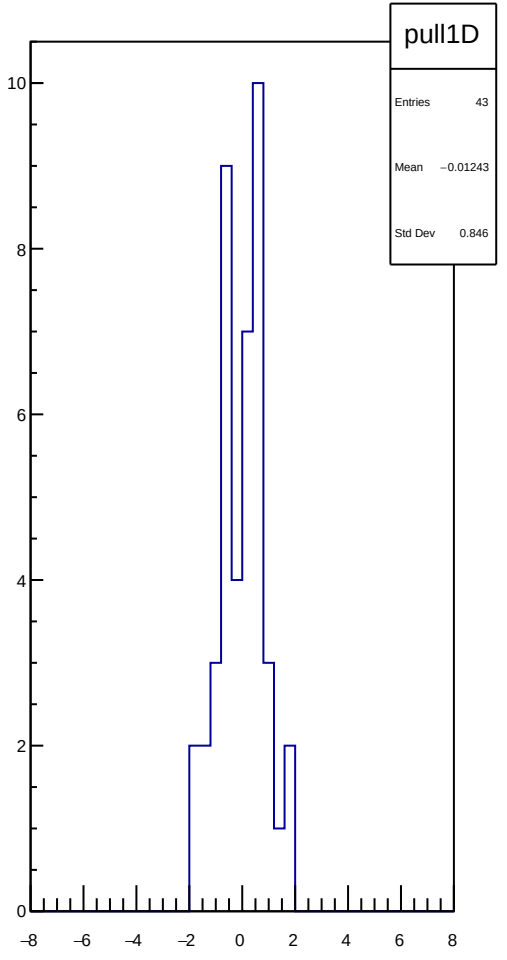

yield_sam7_rms vs run
χ² / ndf 1.567e+05 / 42
p0 0.002267 ± 2.678e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

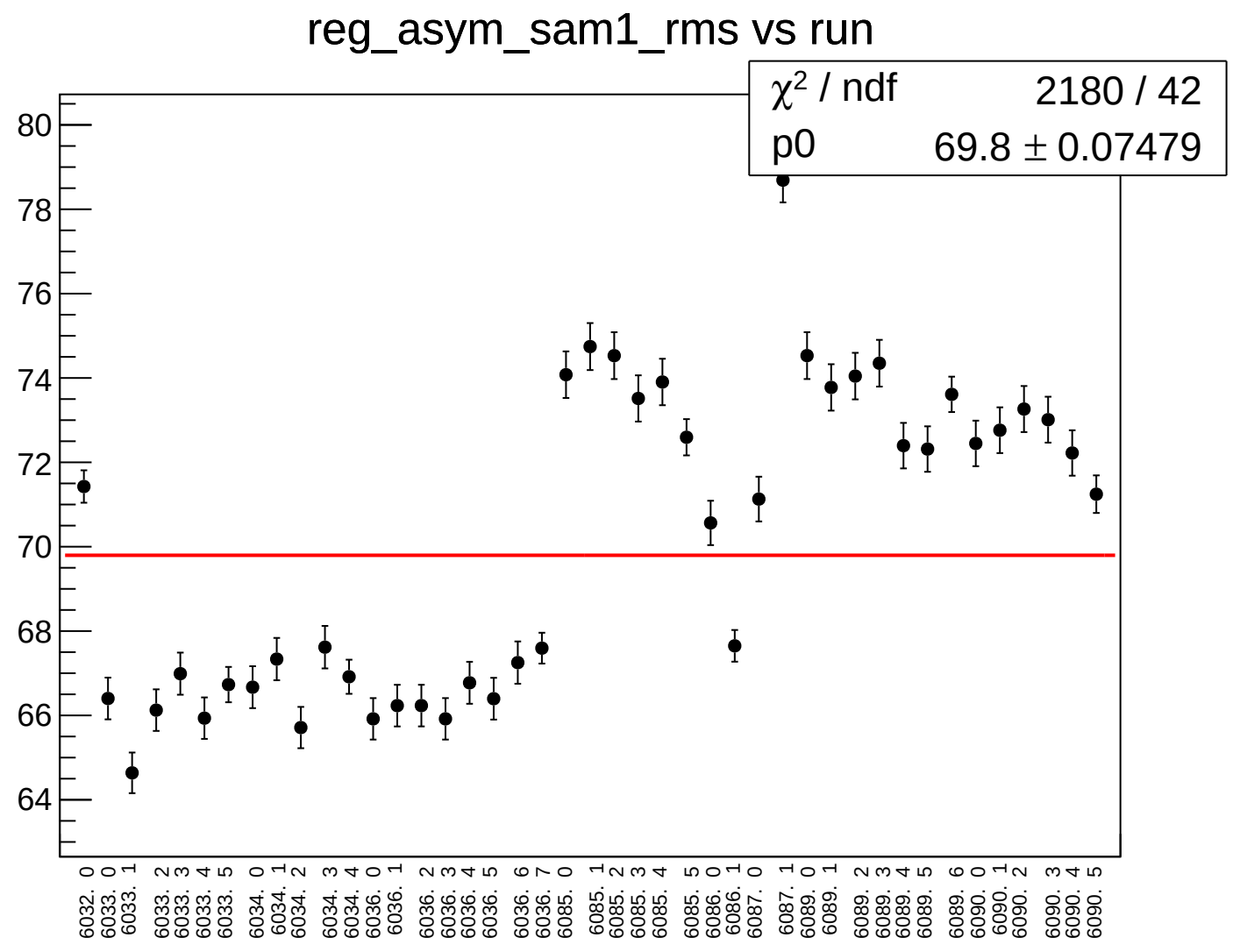

yield_sam8_mean vs run
χ² / ndf 3.855e+08 / 42
p0 9.883 ± 1.188e−05
10.2
10.1
10
9.9
9.8
9.7
9.6
9.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −87.01
Std Dev 0
4000
2000
0
−2000
−4000
−6000

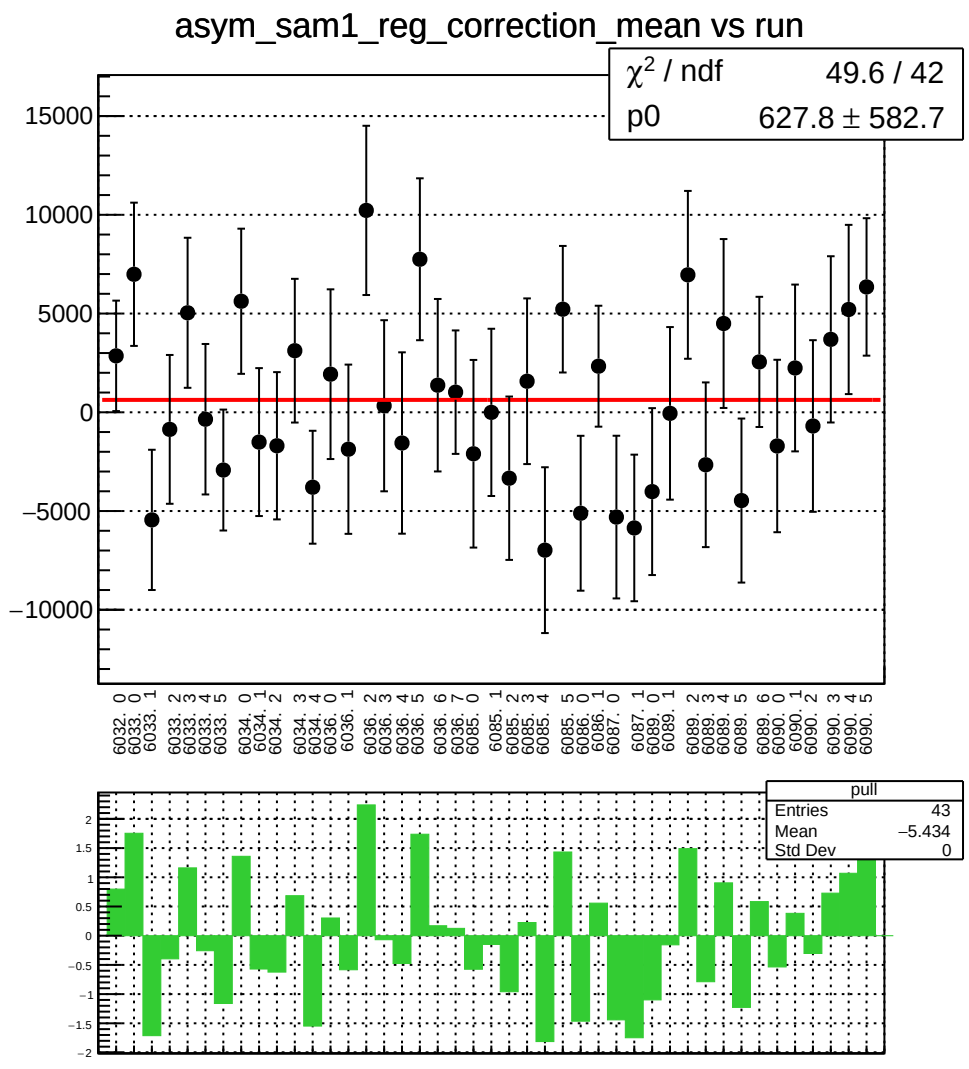

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

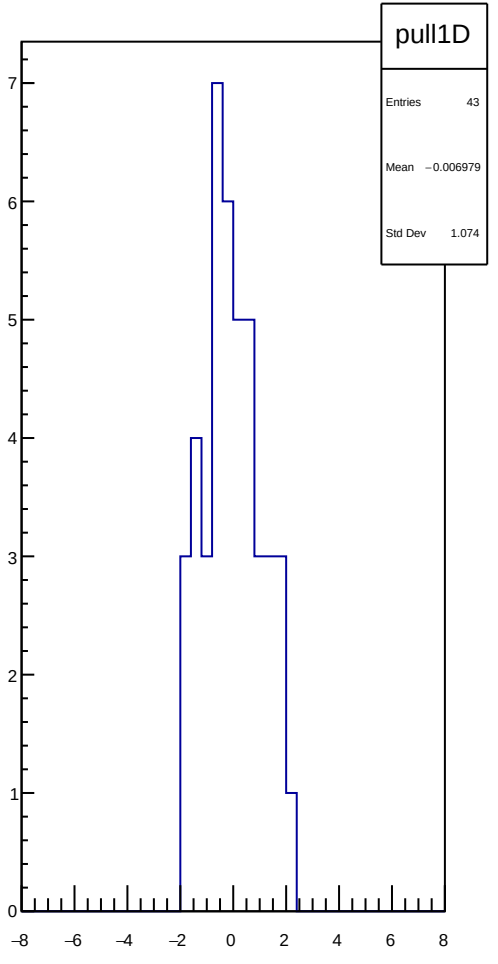

yield_sam8_rms vs run
χ² / ndf 1.682e+05 / 42
p0 0.007052 ± 8.399e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

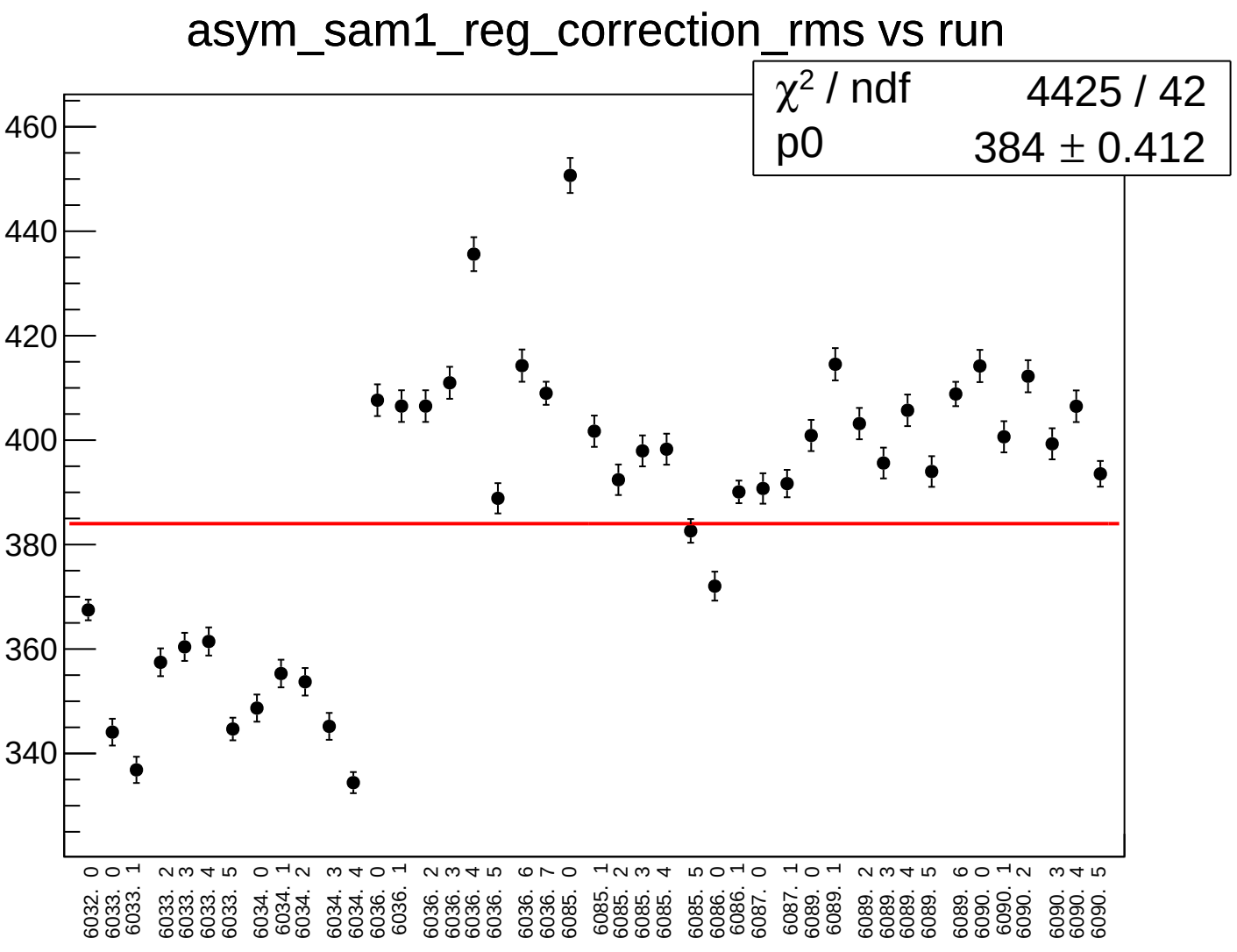

reg_asym_sam1_mean vs run
χ² / ndf 30.78 / 42
p0 23.12 ± 105.8
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

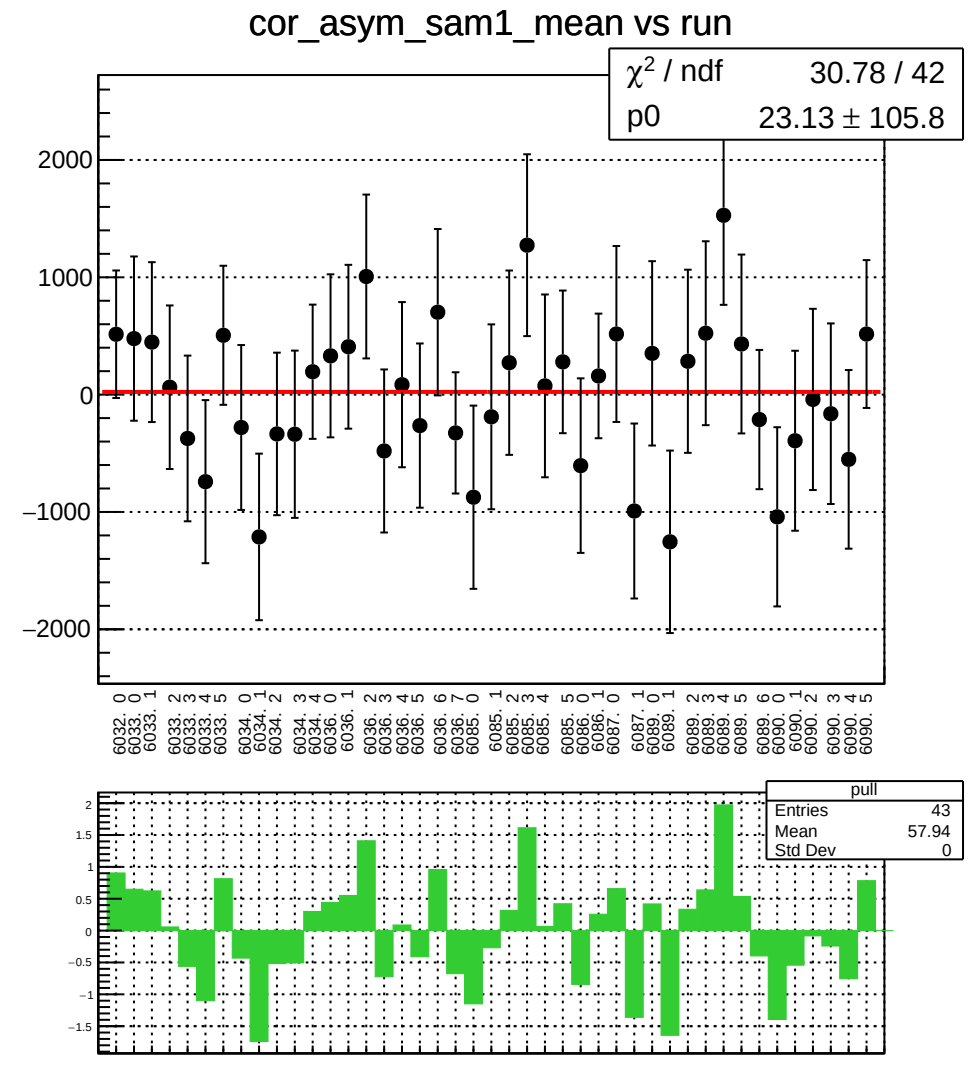

pull1D
Entries 43
Mean −0.01243
Std Dev 0.846
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

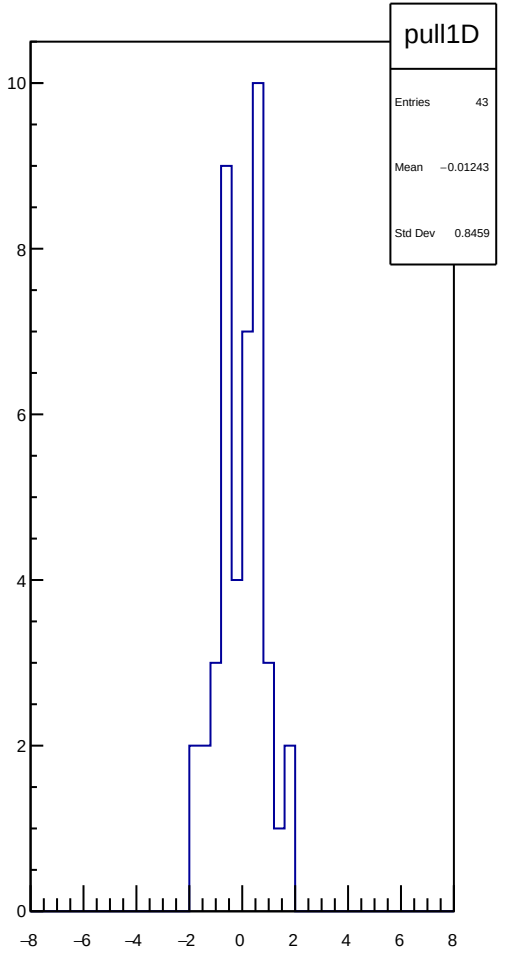

reg_asym_sam1_rms vs run
χ² / ndf 2180 / 42
p0 69.8 ± 0.07479
80
78
76
74
72
70
68
66
64
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

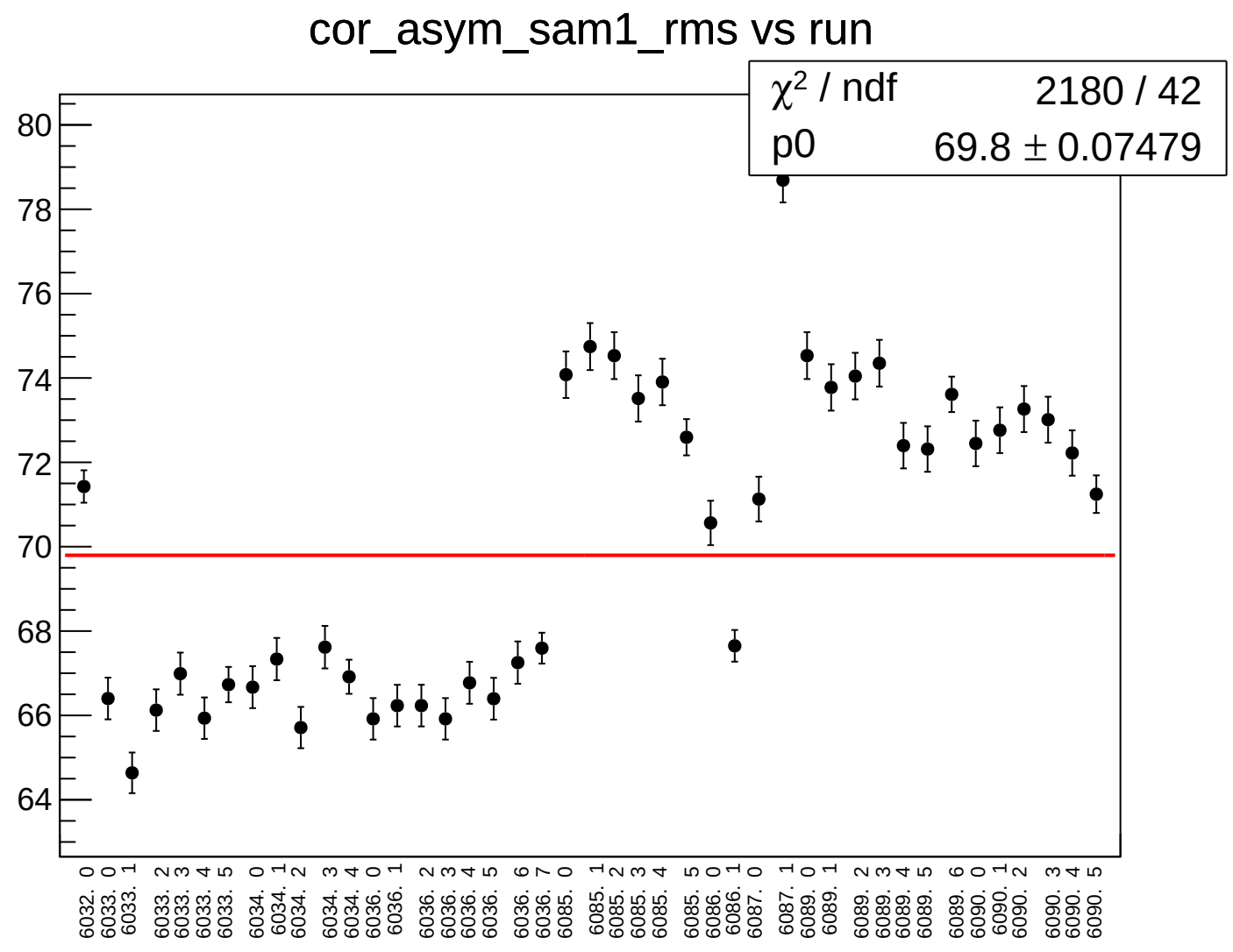

asym_sam1_reg_correction_mean vs run
χ² / ndf 49.6 / 42
p0 627.8 ± 582.7
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.434
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

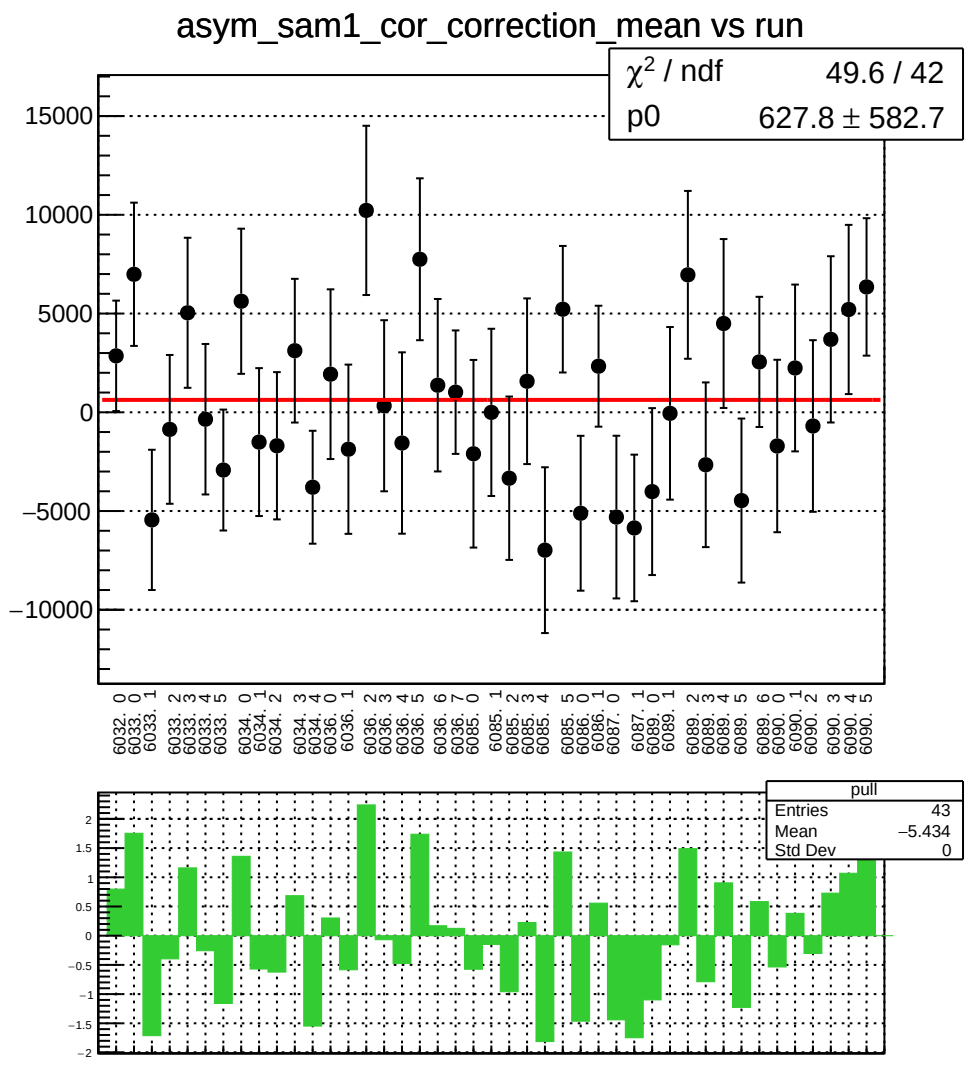

pull1D
Entries 43
Mean −0.006979
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

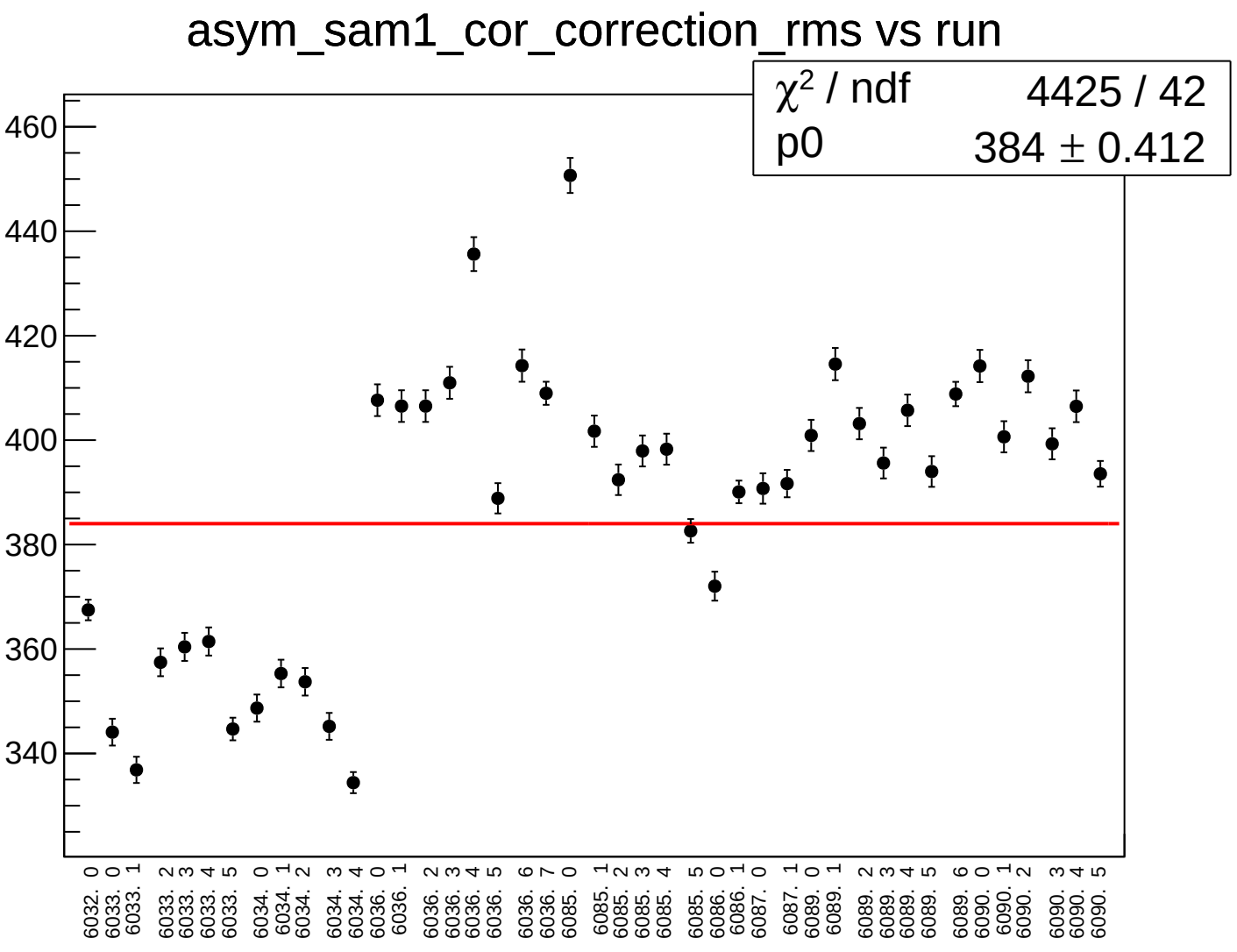

asym_sam1_reg_correction_rms vs run
χ² / ndf 4425 / 42
p0 384 ± 0.412
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

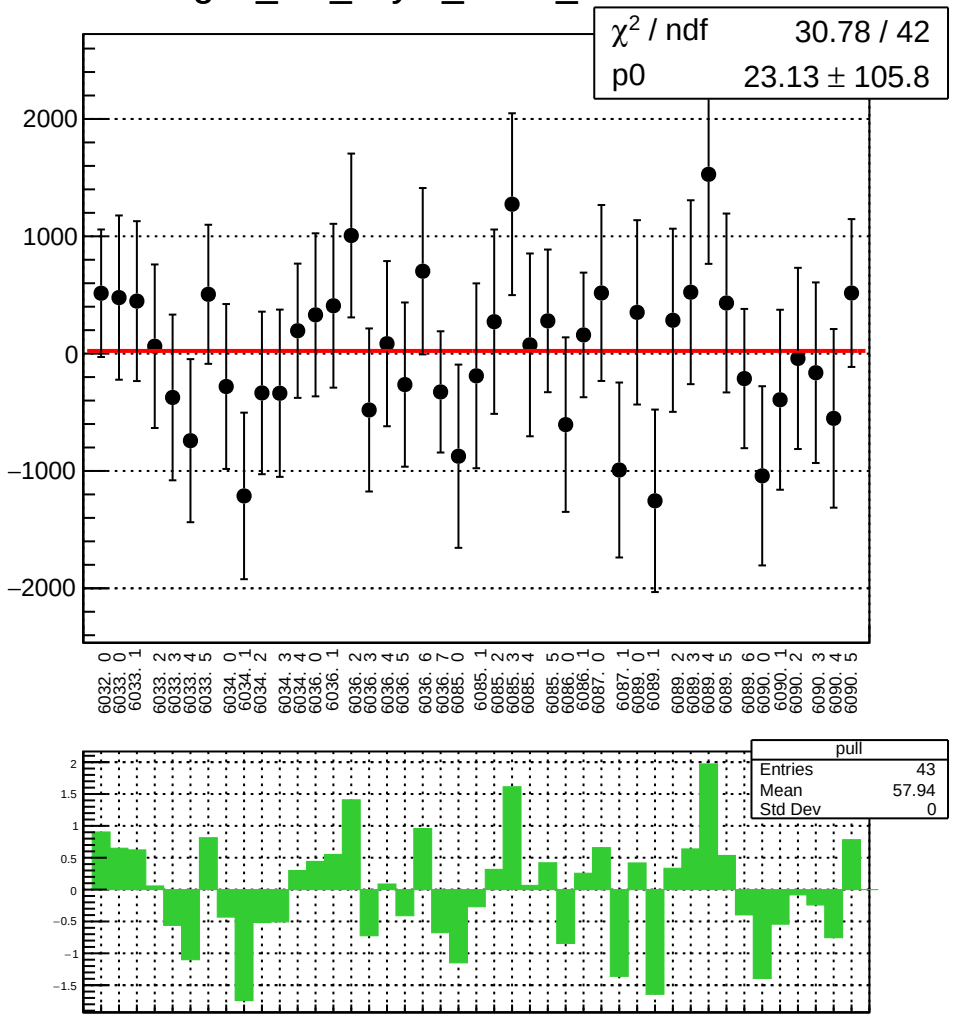

cor_asym_sam1_mean vs run
χ² / ndf 30.78 / 42
p0 23.13 ± 105.8
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

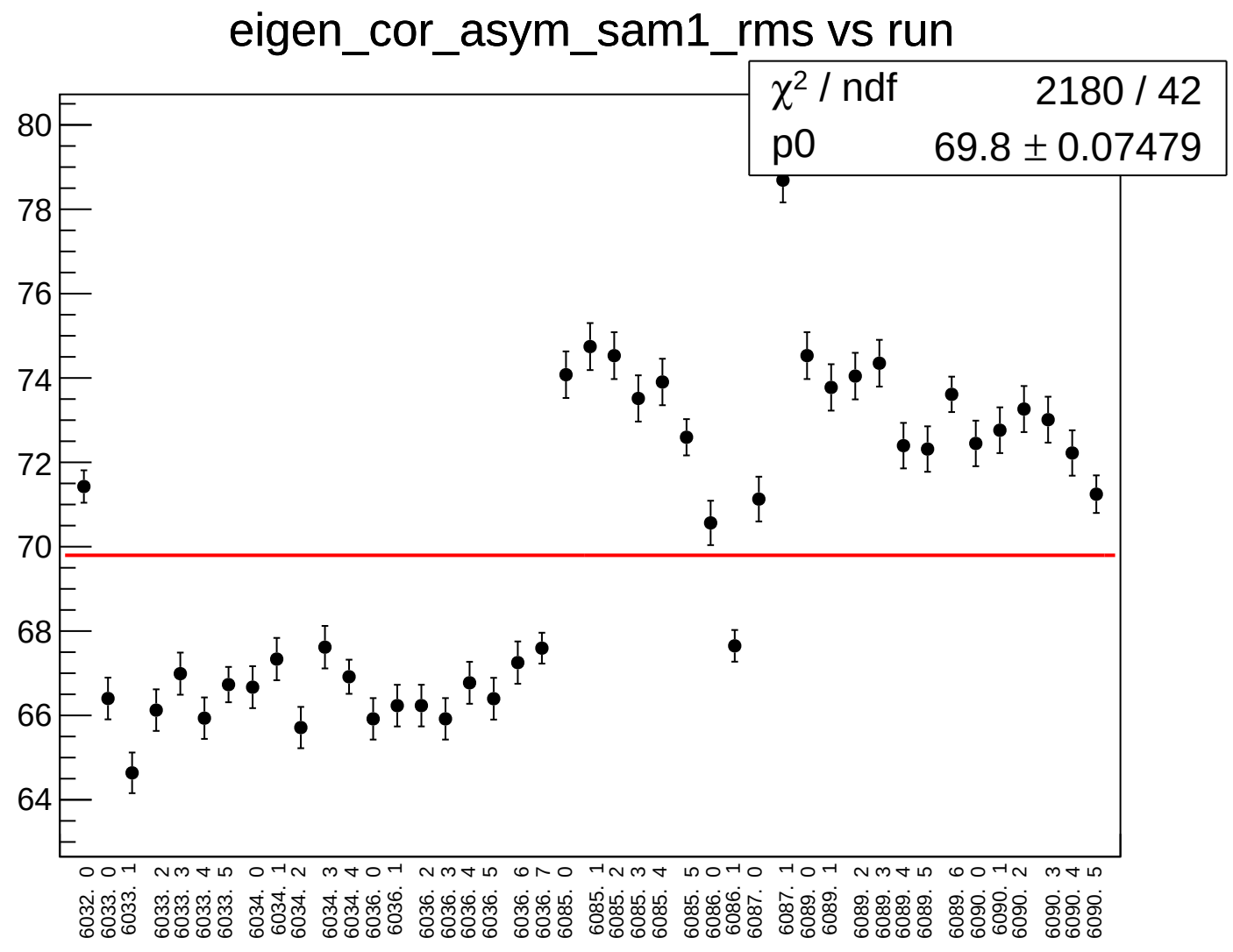

pull1D
Entries 43
Mean −0.01243
Std Dev 0.8459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

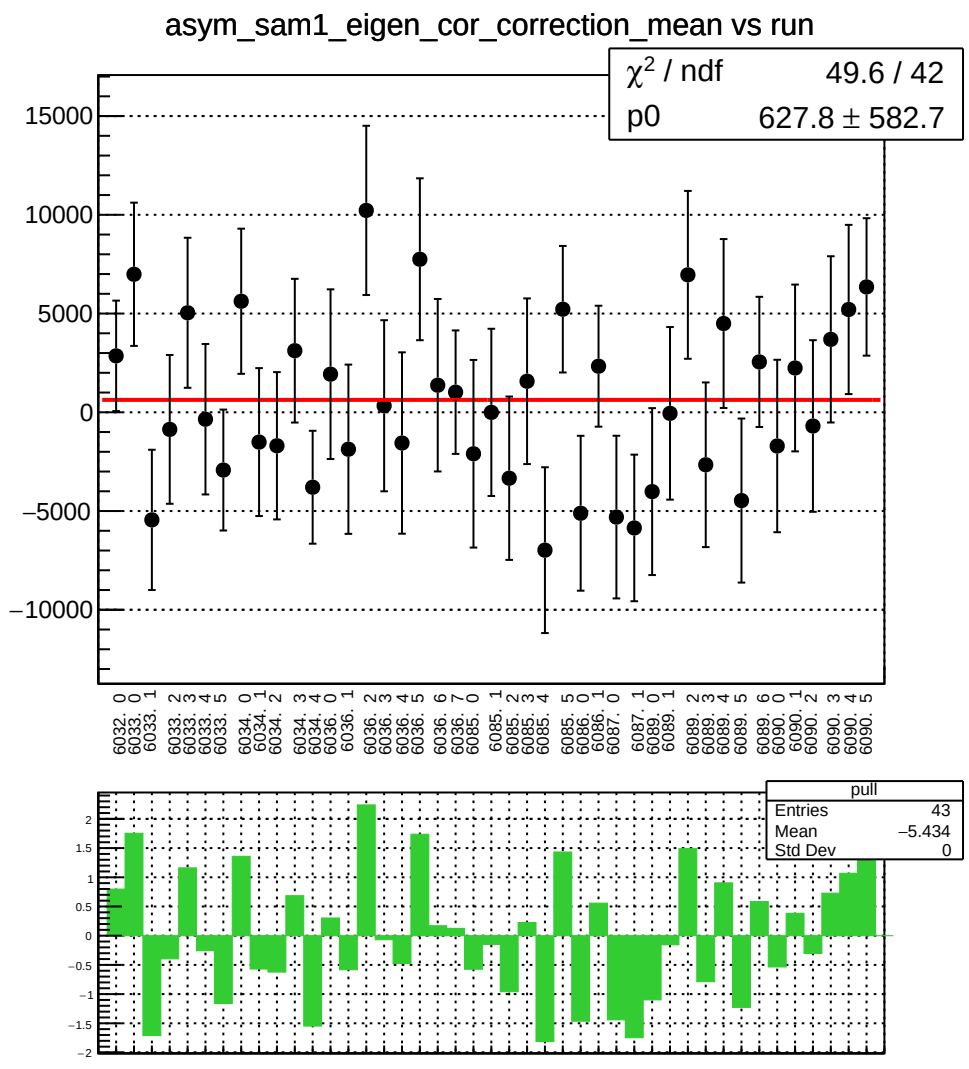

cor_asym_sam1_rms vs run
χ² / ndf 2180 / 42
p0 69.8 ± 0.07479
80
78
76
74
72
70
68
66
64
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

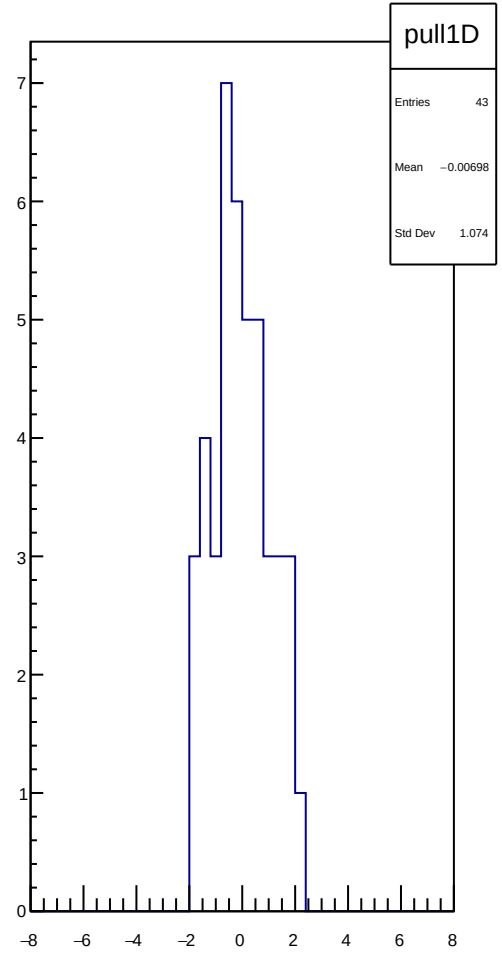

asym_sam1_cor_correction_mean vs run
χ² / ndf 49.6 / 42
p0 627.8 ± 582.7
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.434
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.00698
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

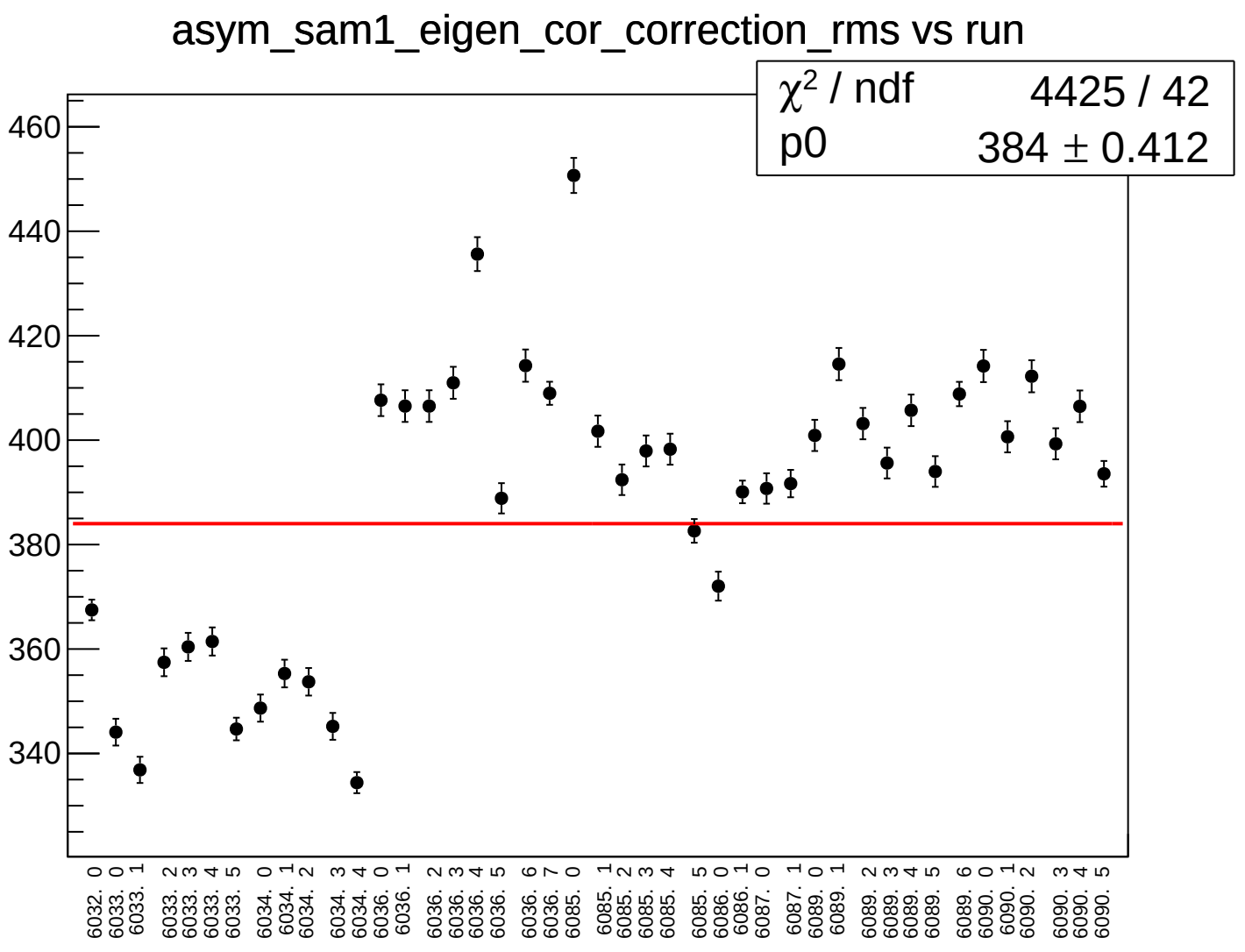

asym_sam1_cor_correction_rms vs run
χ² / ndf 4425 / 42
p0 384 ± 0.412
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

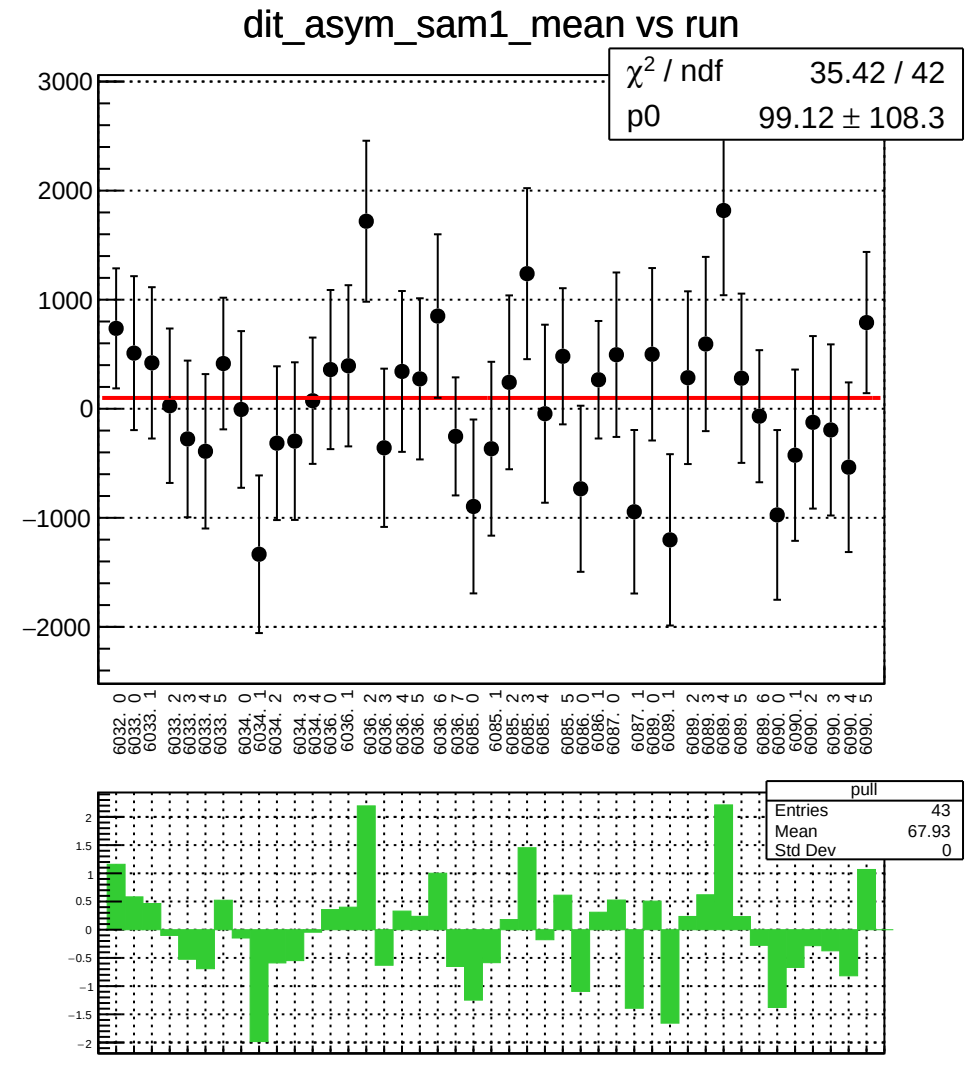

eigen_cor_asym_sam1_mean vs run
χ² / ndf 30.78 / 42
p0 23.13 ± 105.8
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01243
Std Dev 0.8459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

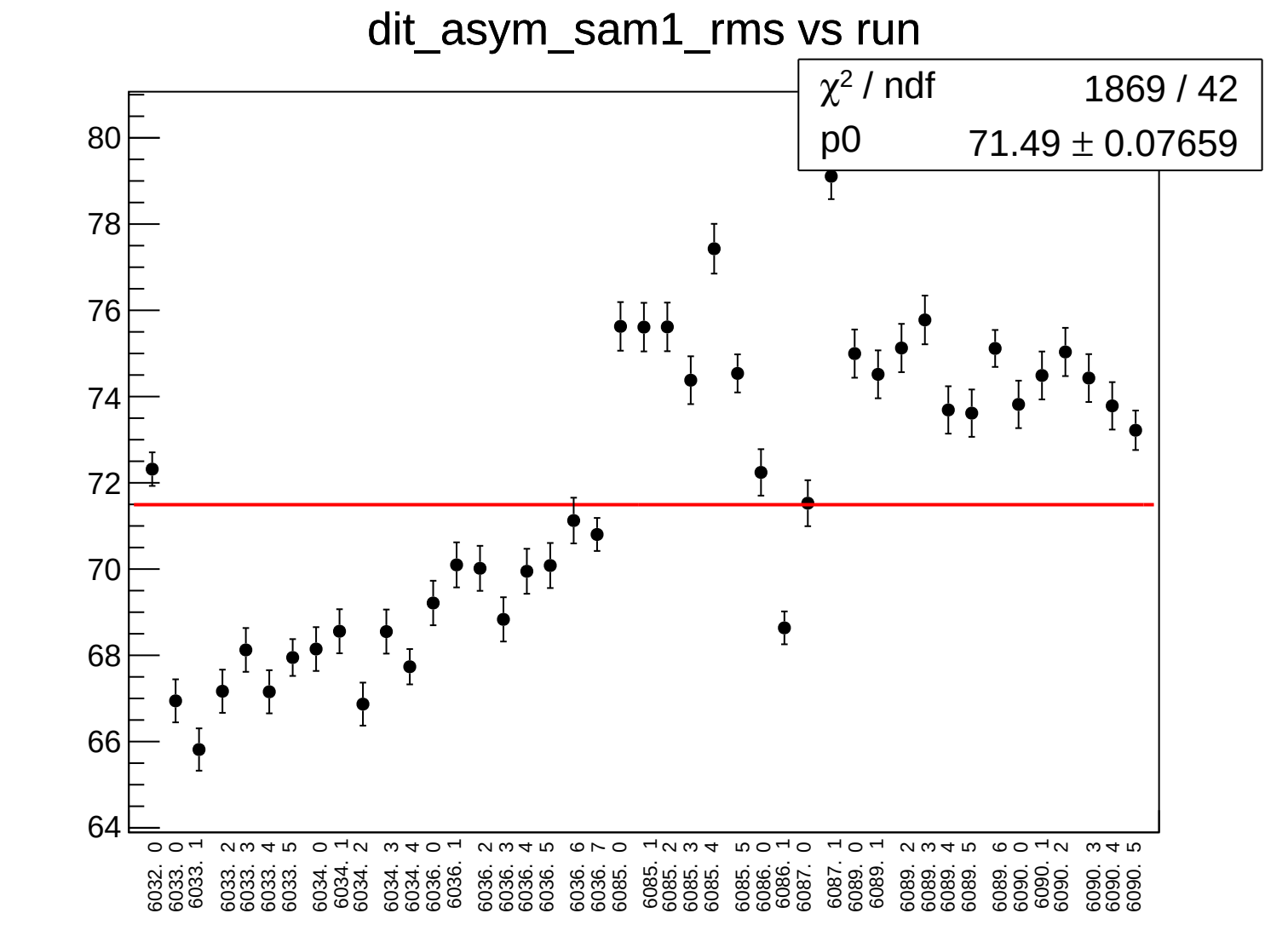

eigen_cor_asym_sam1_rms vs run
χ² / ndf 2180 / 42
p0 69.8 ± 0.07479
80
78
76
74
72
70
68
66
64
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

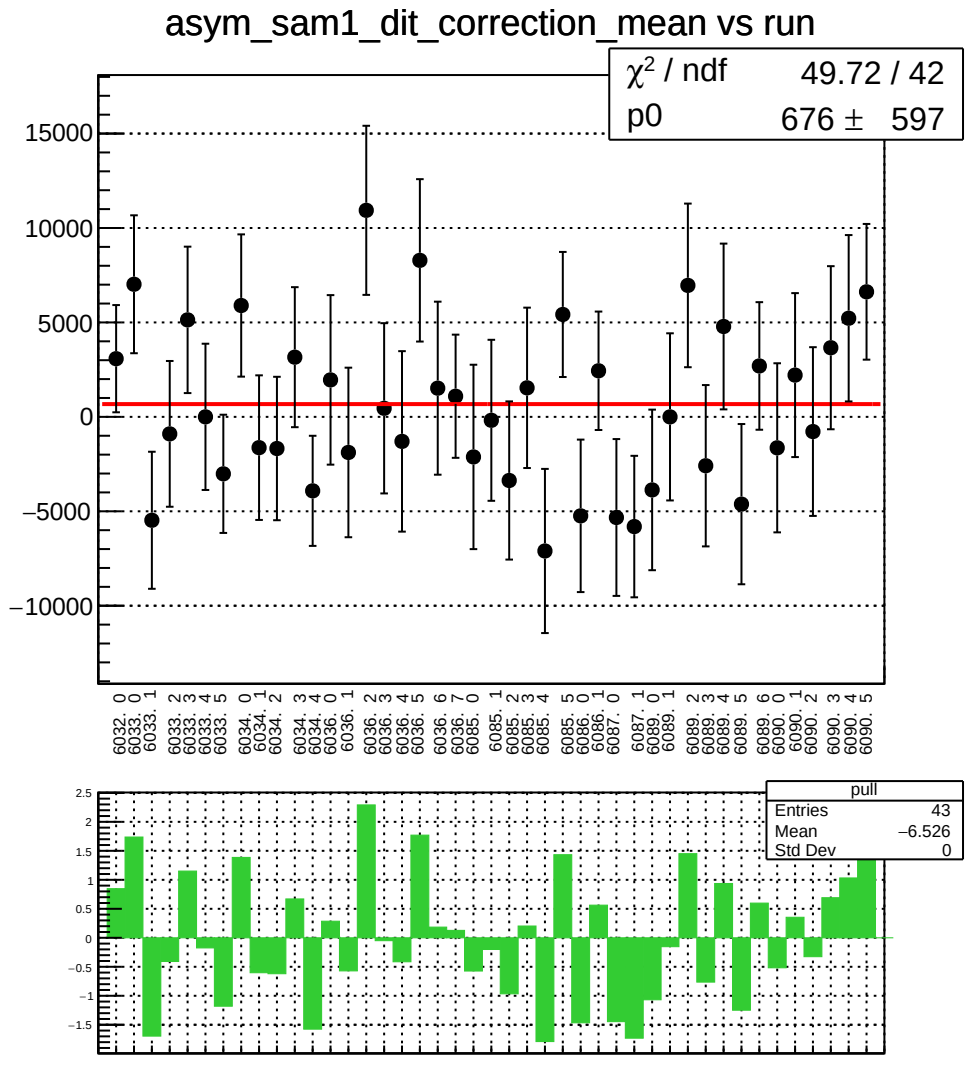

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 49.6 / 42
p0 627.8 ± 582.7
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.434
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

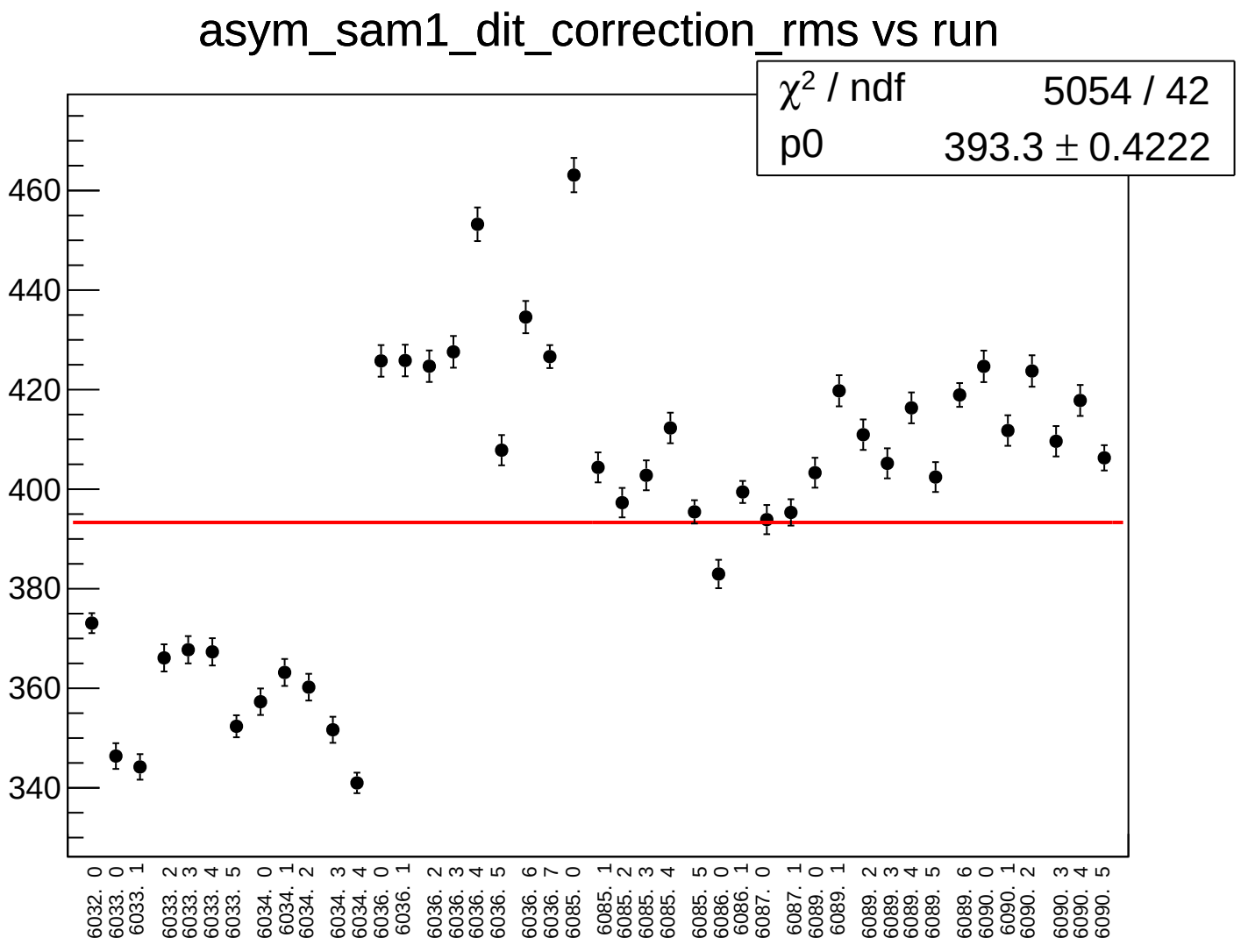

pull1D
Entries 43
Mean −0.00698
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

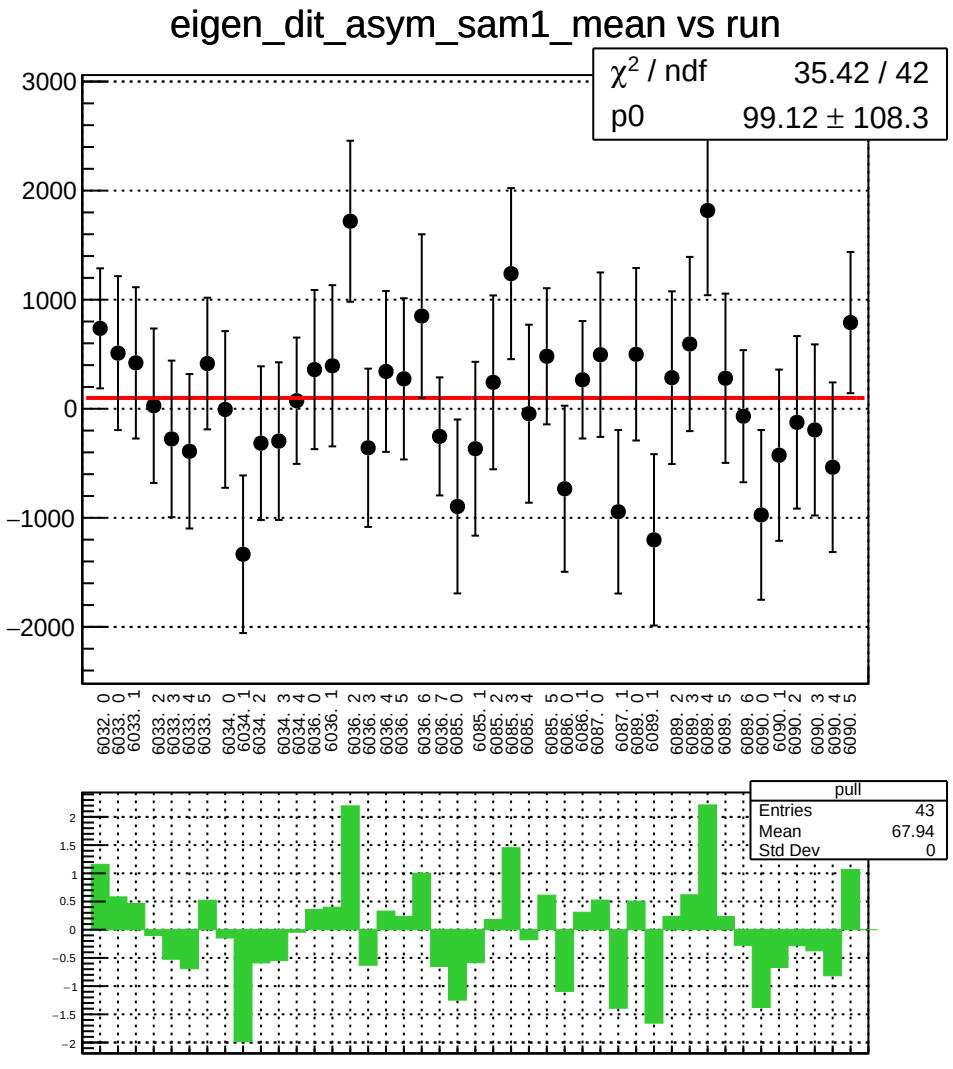

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 4425 / 42
p0 384 ± 0.412
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

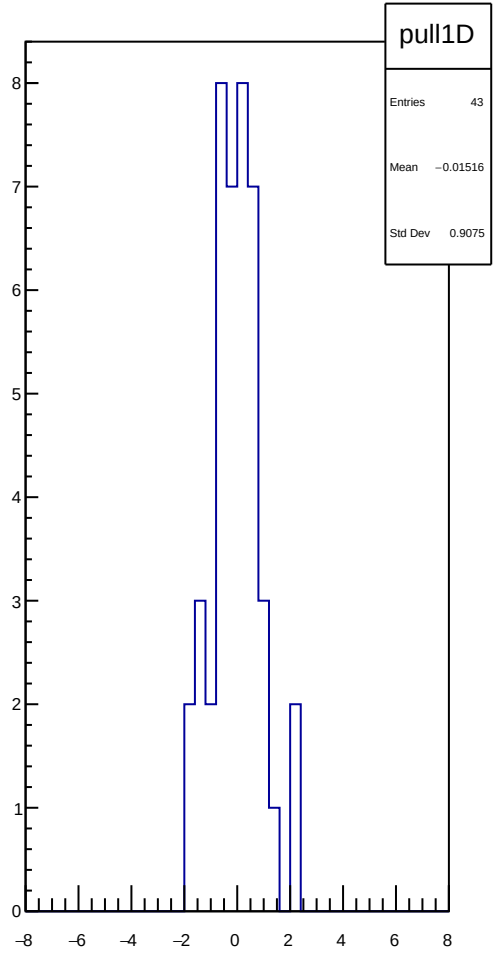

dit_asym_sam1_mean vs run
χ² / ndf 35.42 / 42
p0 99.12 ± 108.3
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 67.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01516
Std Dev 0.9075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

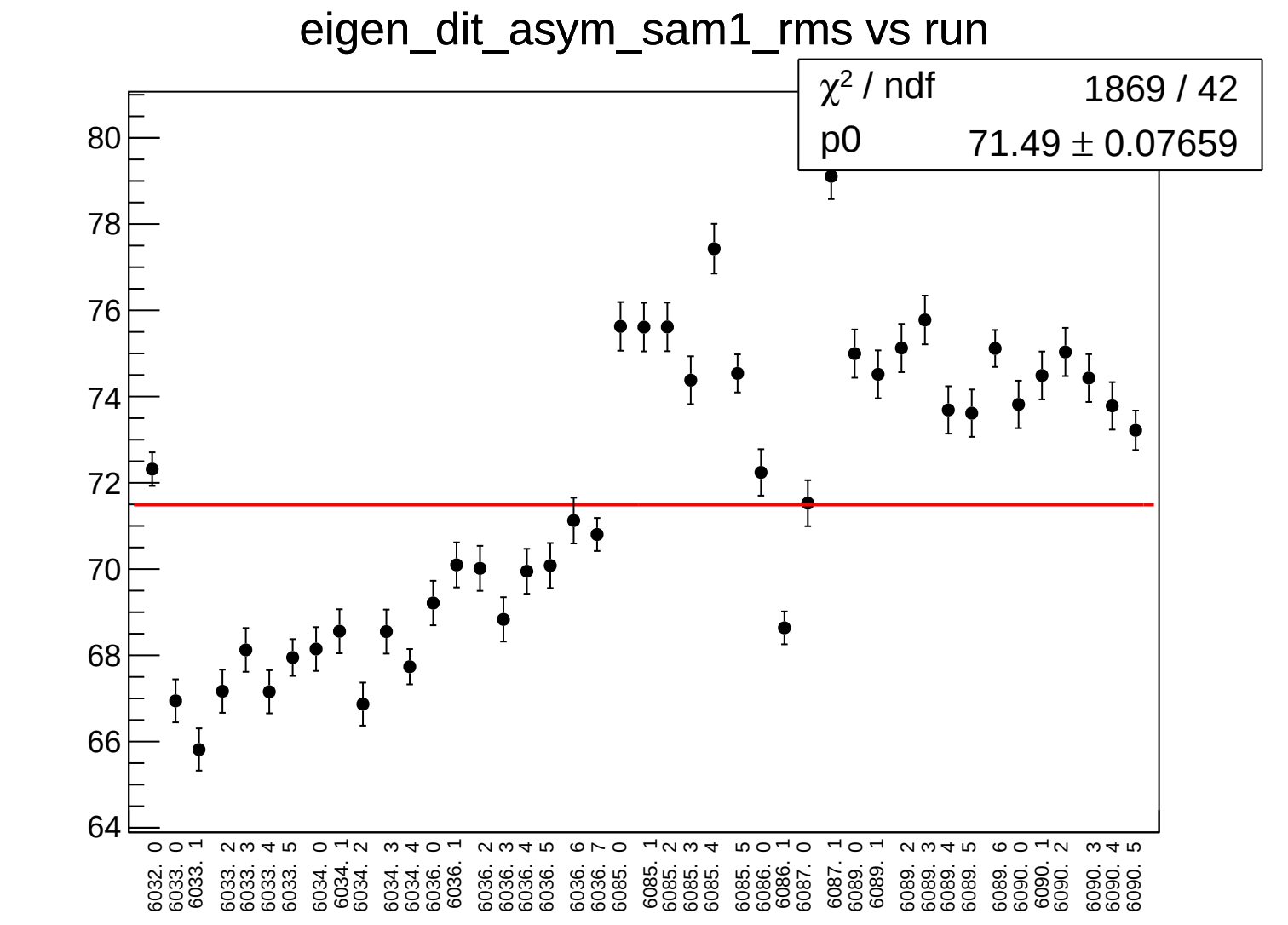

dit_asym_sam1_rms vs run
χ² / ndf 1869 / 42
p0 71.49 ± 0.07659
80
78
76
74
72
70
68
66
64
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

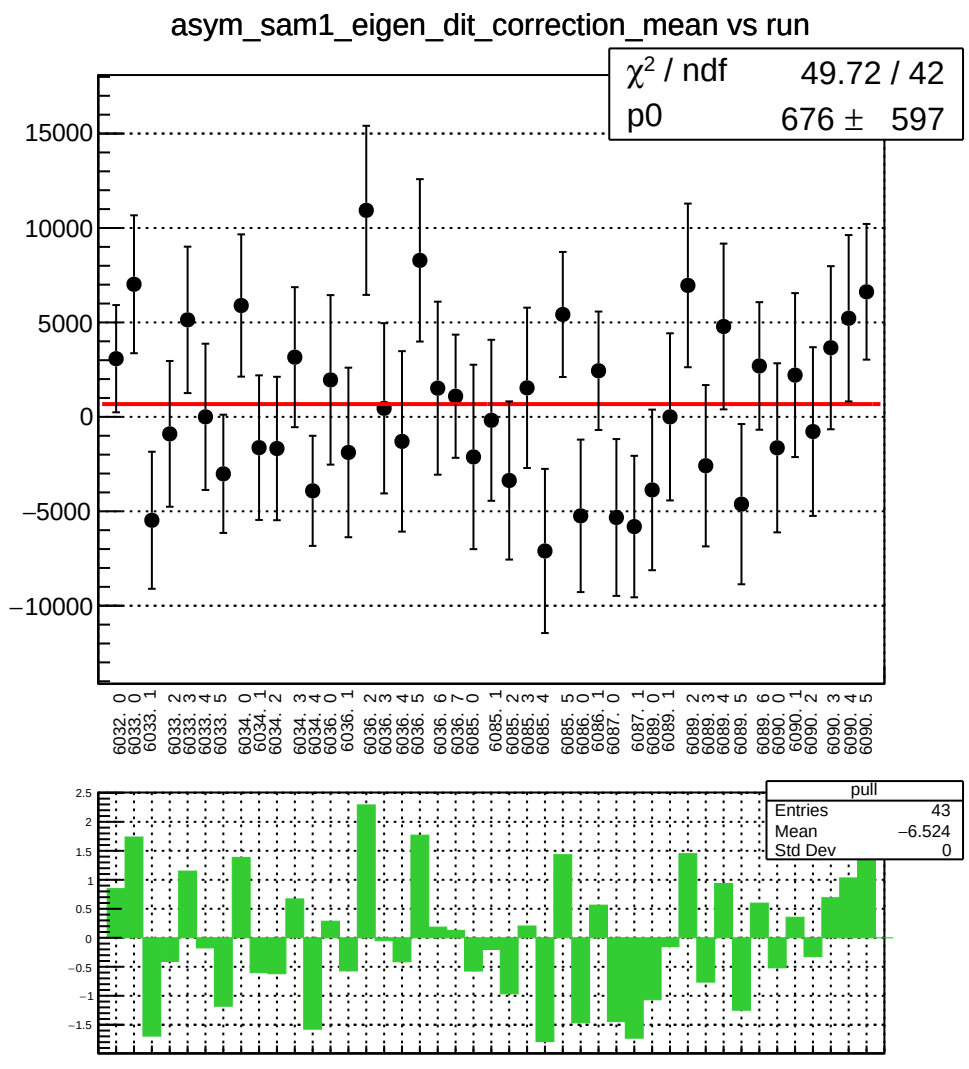

asym_sam1_dit_correction_mean vs run
χ² / ndf 49.72 / 42
p0 676 ± 597
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.526
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.003964
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

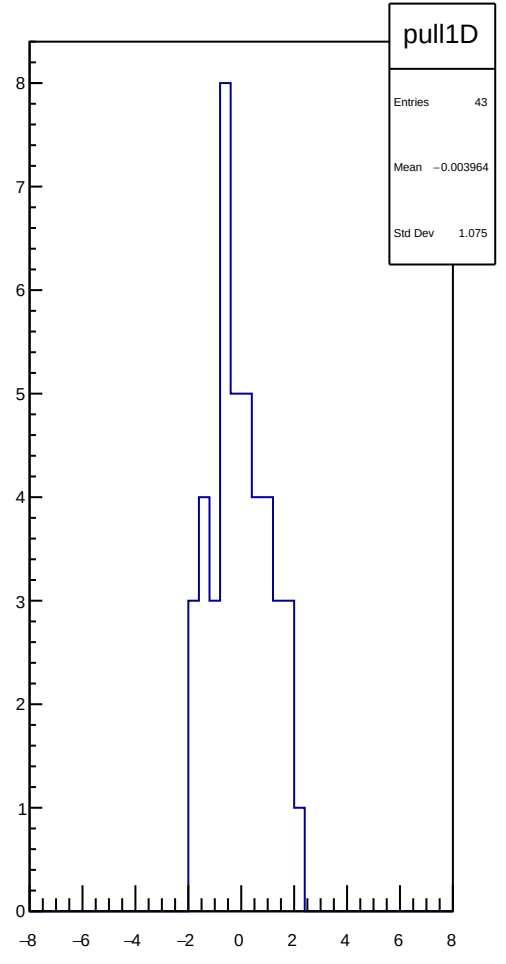

asym_sam1_dit_correction_rms vs run
χ² / ndf 5054 / 42
p0 393.3 ± 0.4222
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

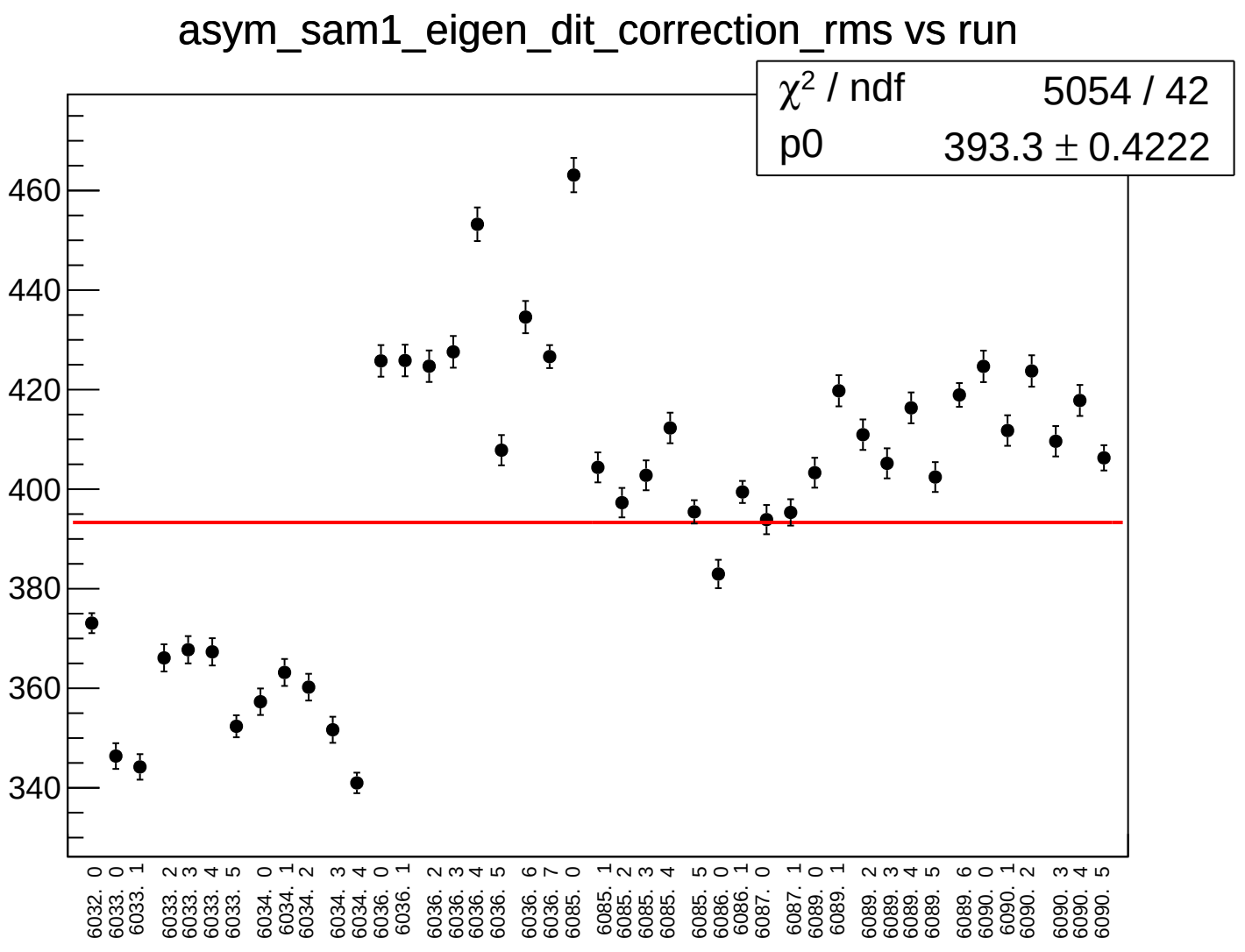

eigen_dit_asym_sam1_mean vs run
χ² / ndf 35.42 / 42
p0 99.12 ± 108.3
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 67.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

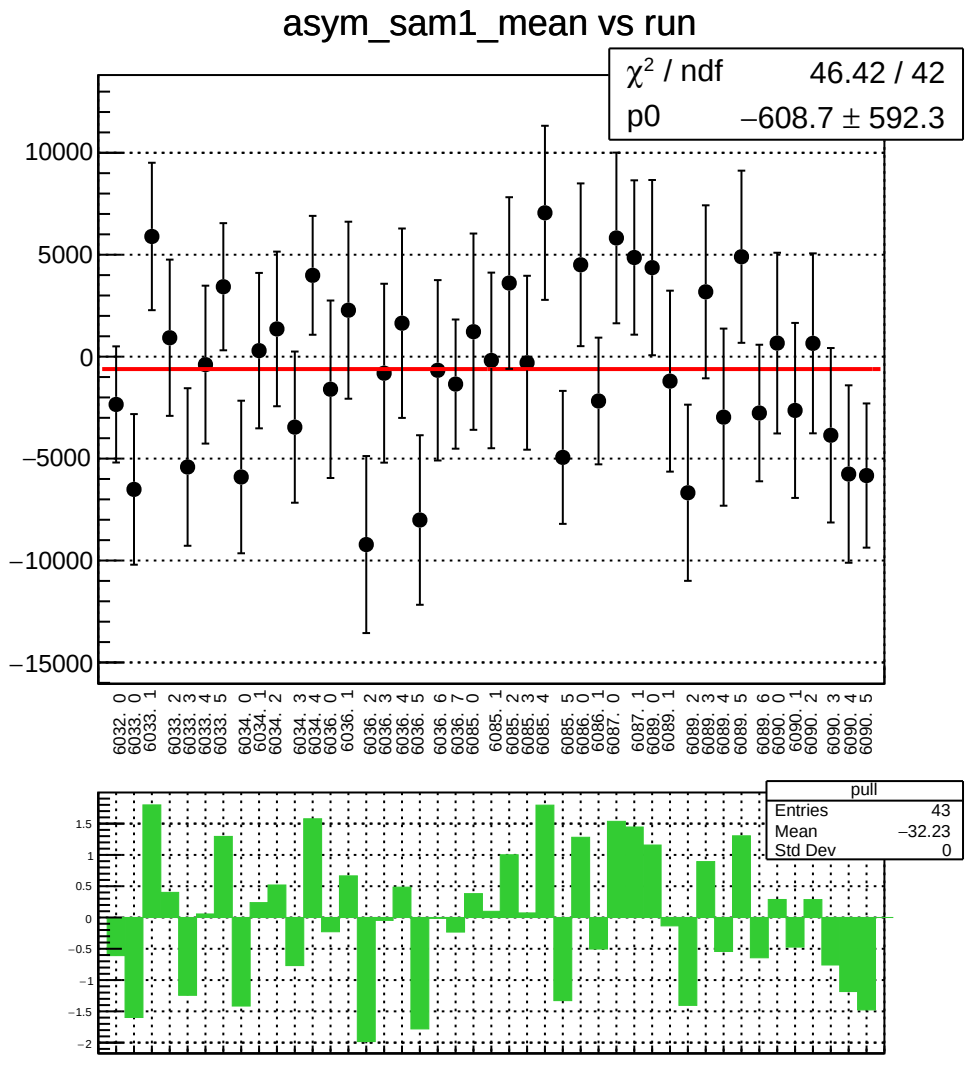

pull1D
Entries 43
Mean −0.01516
Std Dev 0.9075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

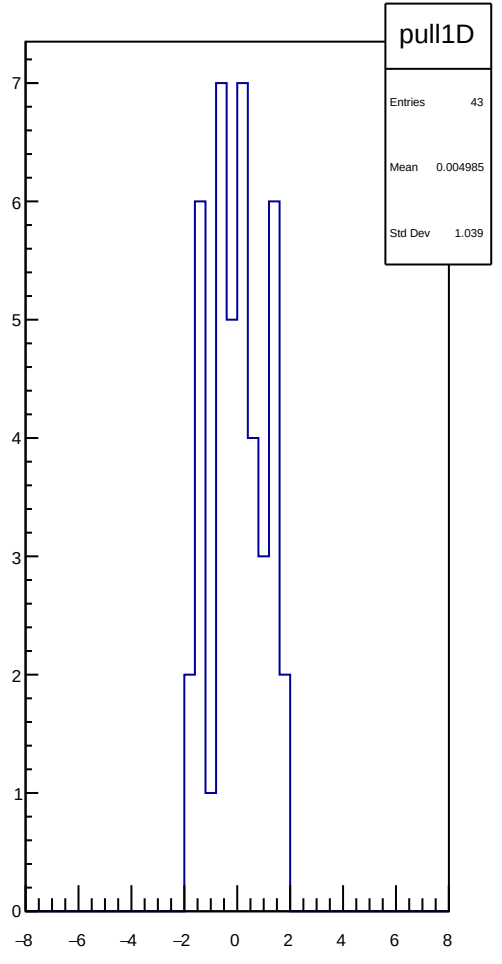

eigen_dit_asym_sam1_rms vs run
χ² / ndf 1869 / 42
p0 71.49 ± 0.07659
80
78
76
74
72
70
68
66
64
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

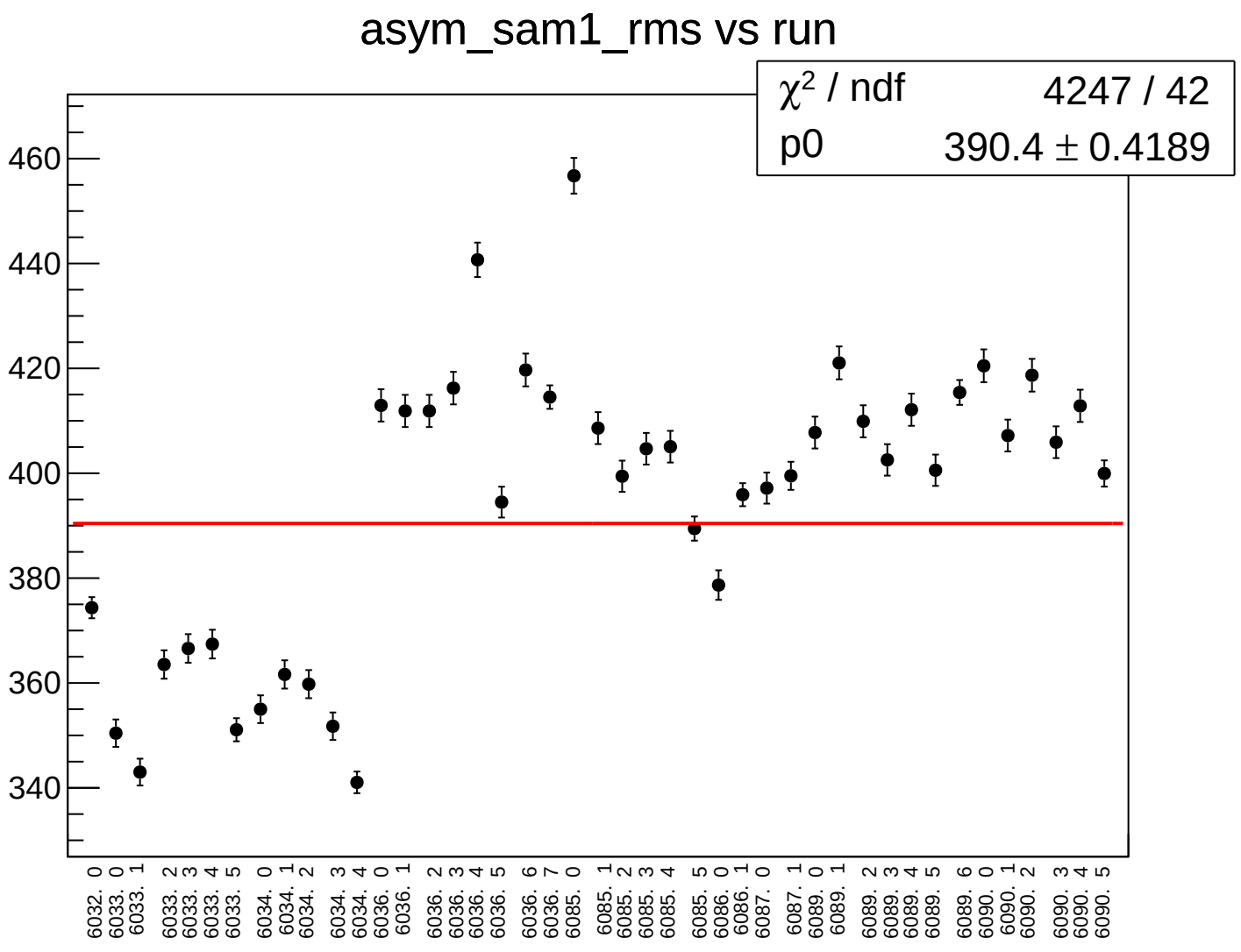

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 49.72 / 42
p0 676 ± 597
15000
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.524
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

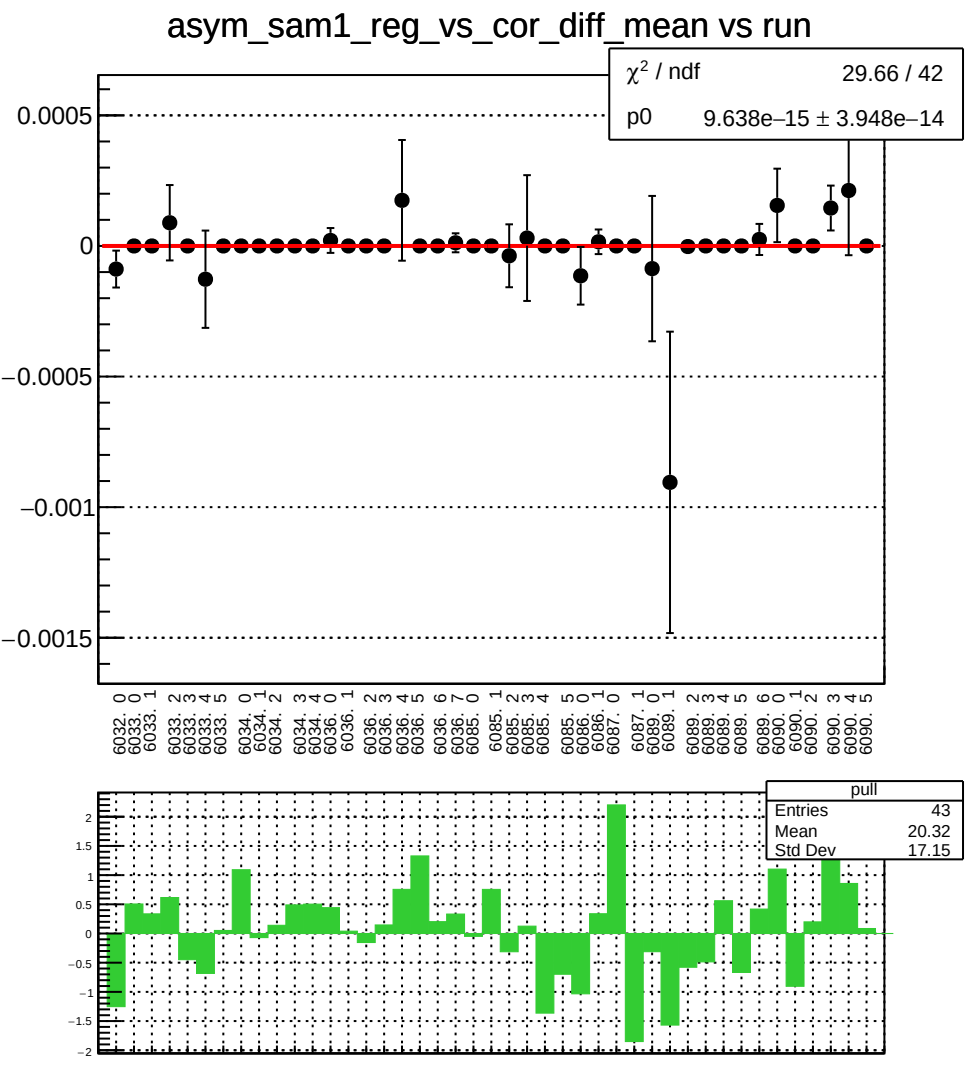

pull1D
Entries 43
Mean −0.003964
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

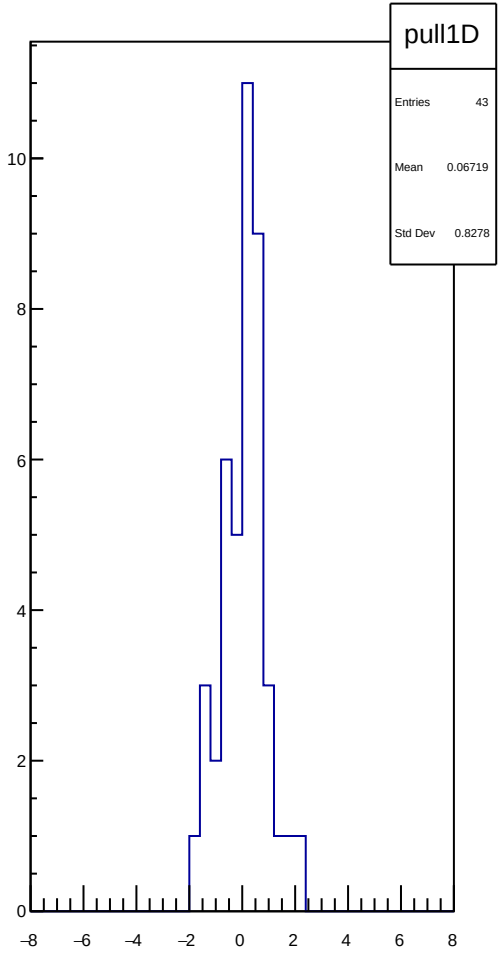

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 5054 / 42
p0 393.3 ± 0.4222
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

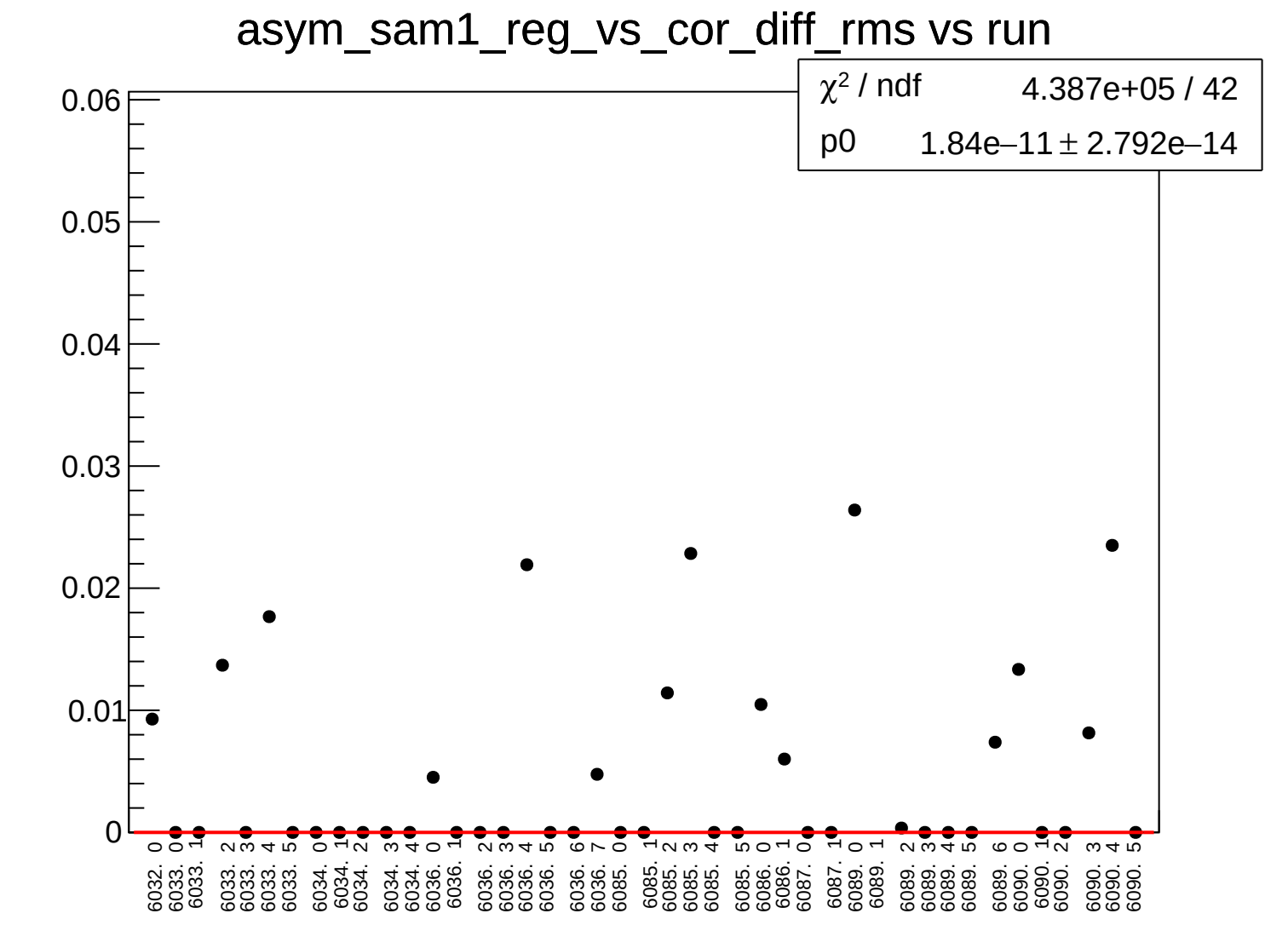

asym_sam1_mean vs run
χ² / ndf 46.42 / 42
p0 −608.7 ± 592.3
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −32.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

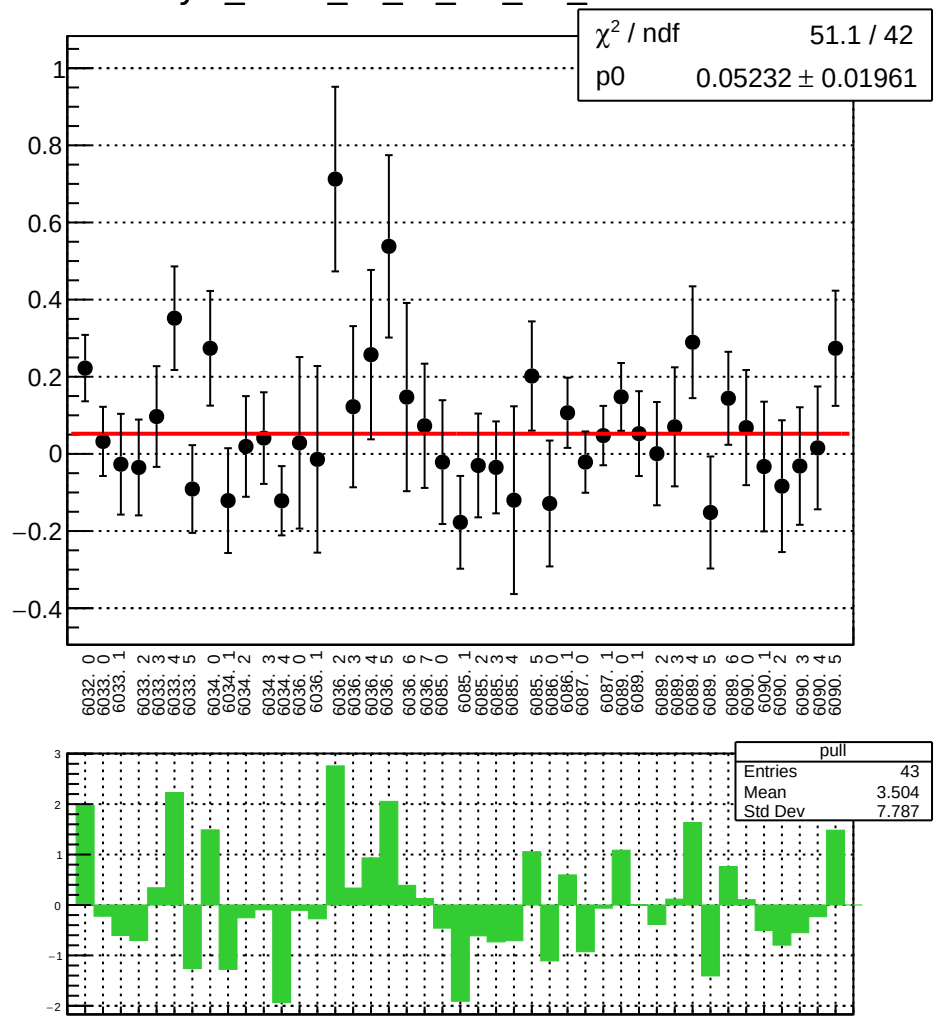

pull1D
Entries 43
Mean 0.004985
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

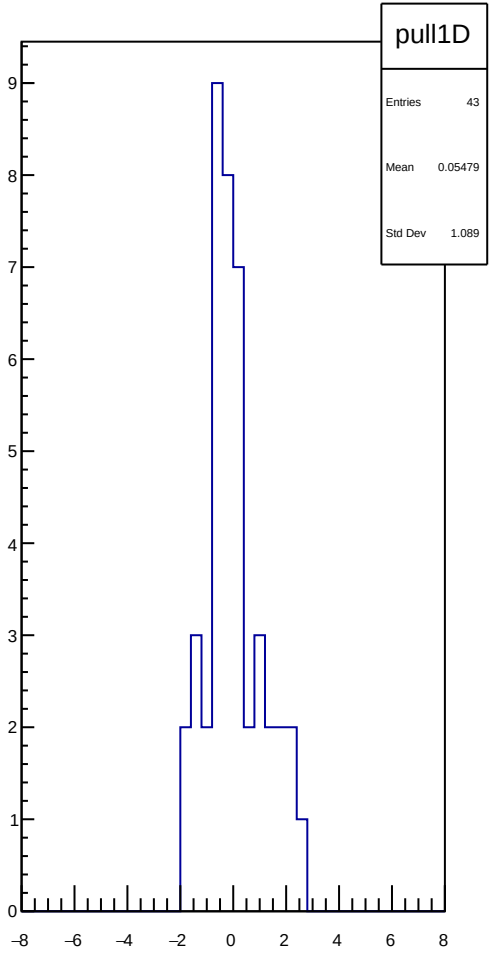

asym_sam1_rms vs run
χ² / ndf 4247 / 42
p0 390.4 ± 0.4189
460
440
420
400
380
360
340
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

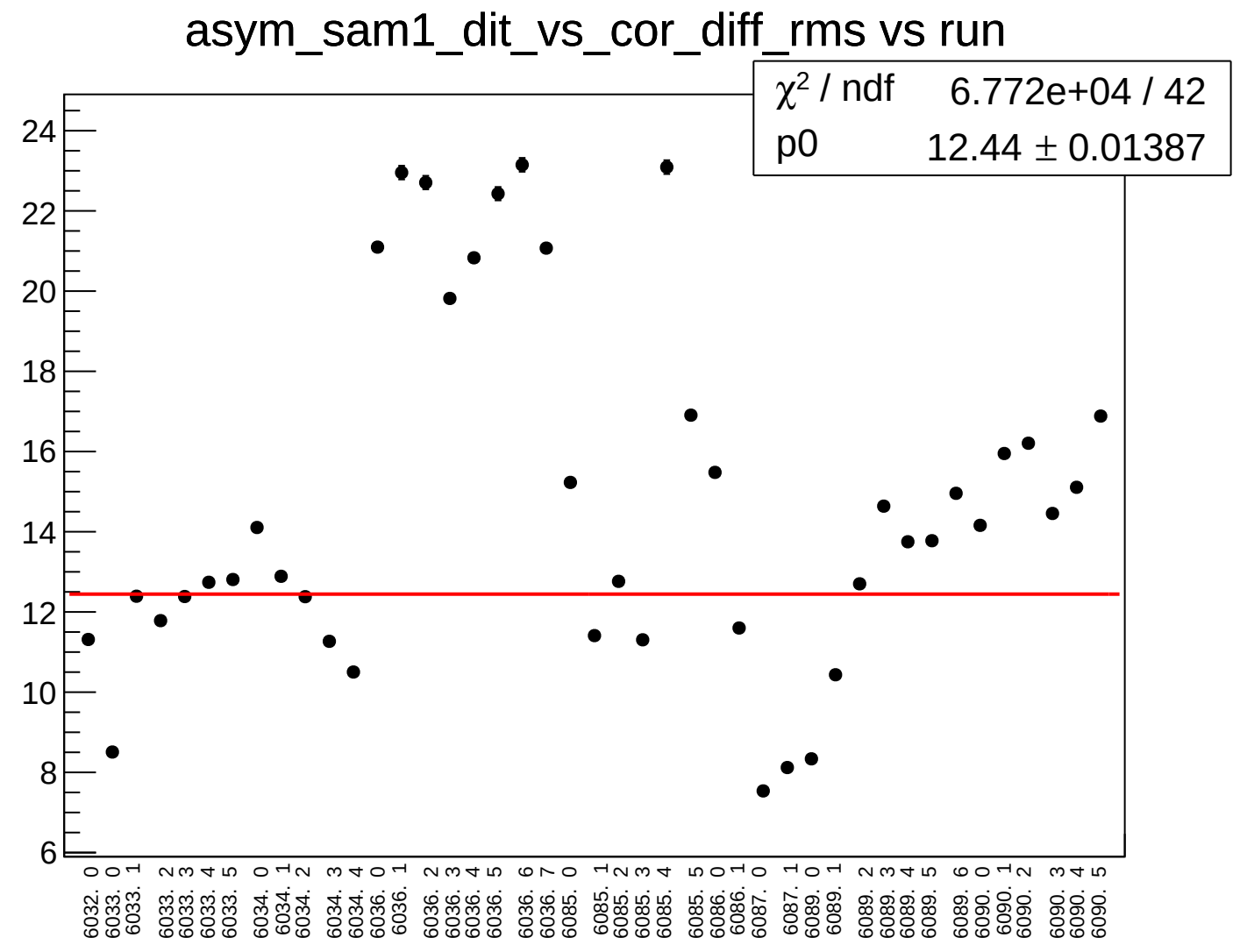

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 29.66 / 42
p0 9.638e−15 ± 3.948e−14
0.0005
0
−0.0005
−0.001
−0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.32
Std Dev 17.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

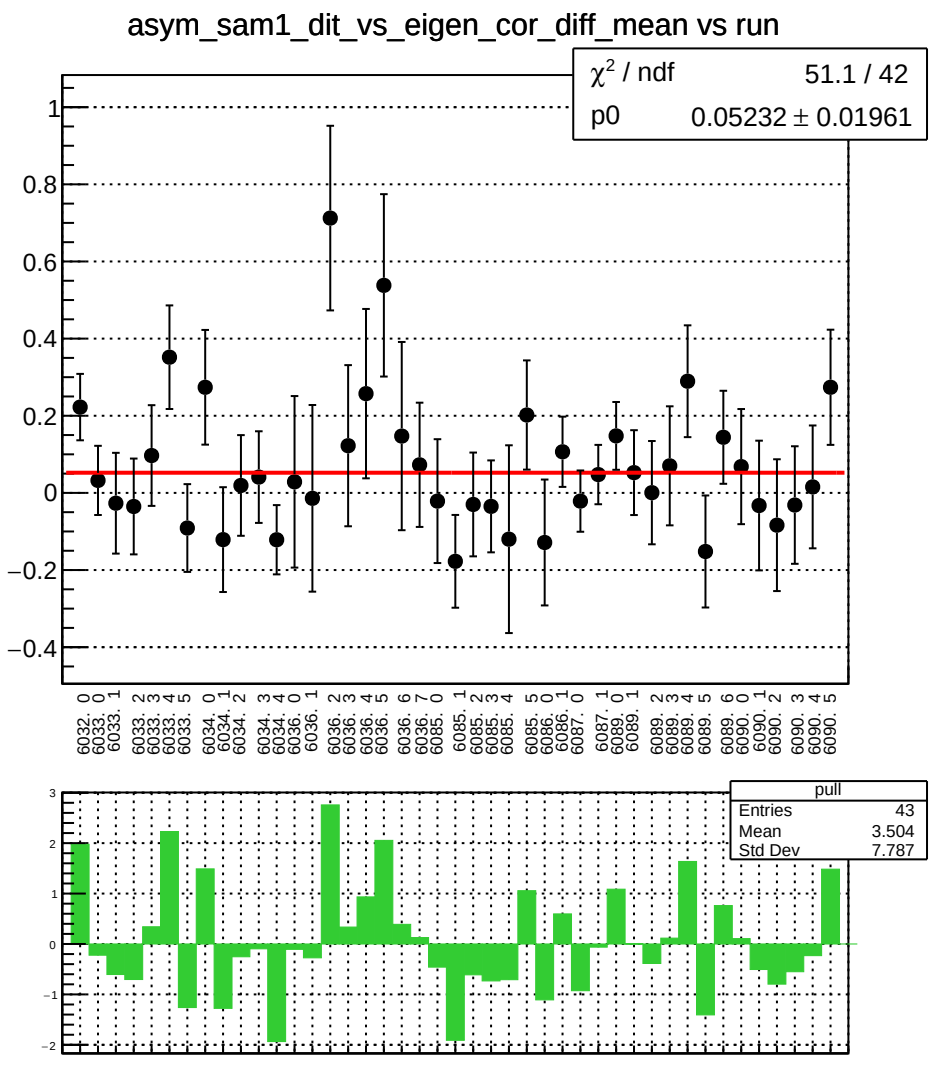

pull1D
Entries 43
Mean 0.06719
Std Dev 0.8278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

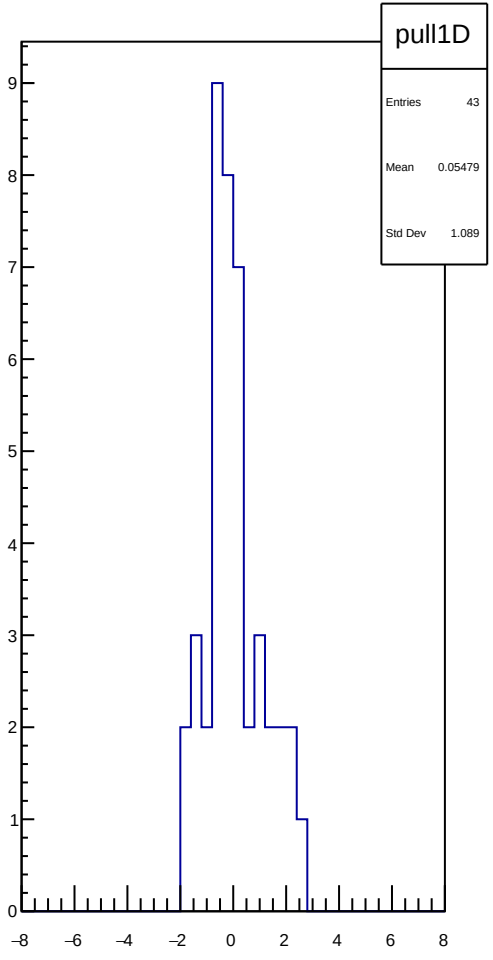

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.387e+05 / 42
p0 1.84e−11 ± 2.792e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

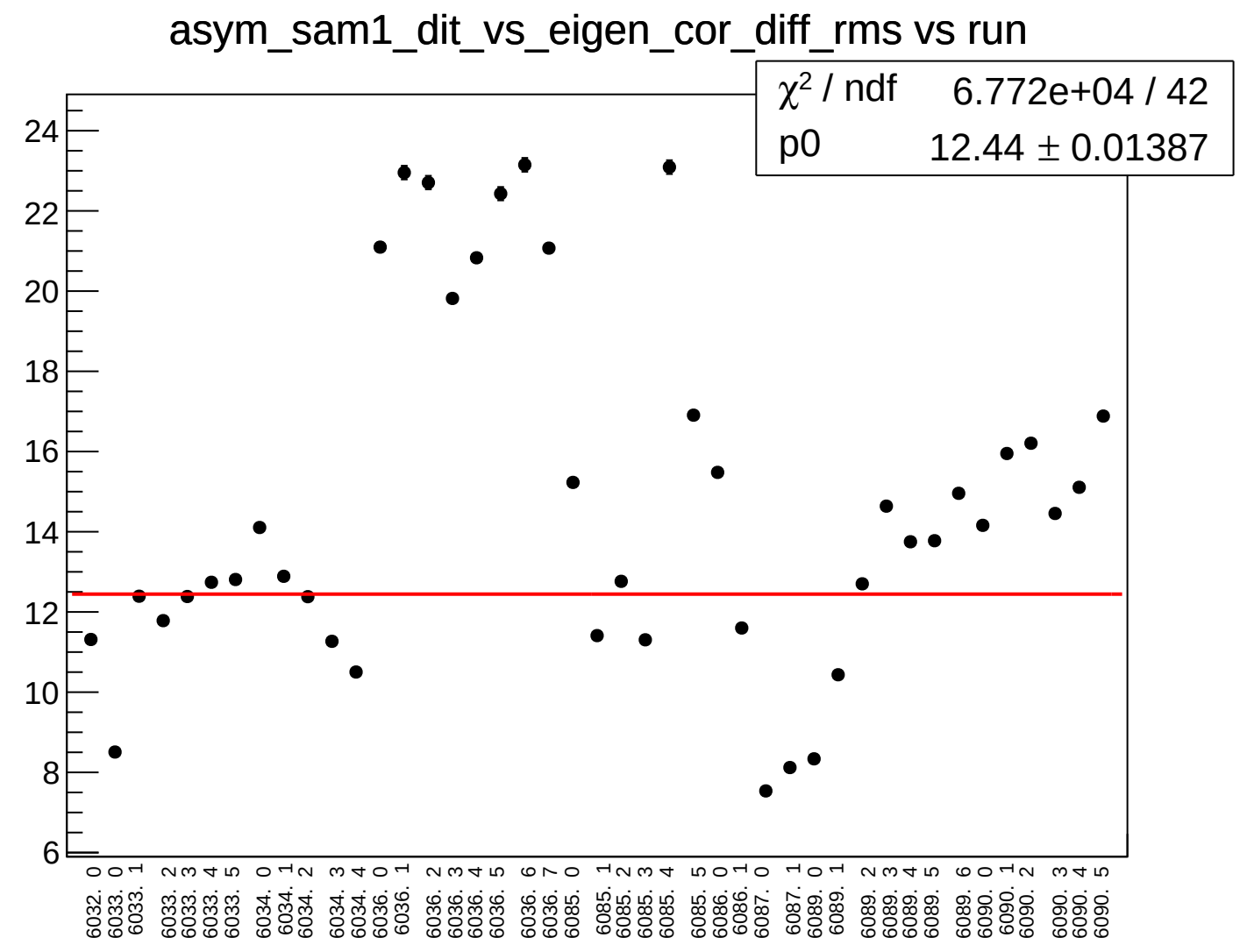

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 51.1 / 42
p0 0.05232 ± 0.01961
pull
Entries 43
Mean 3.504
Std Dev 7.787

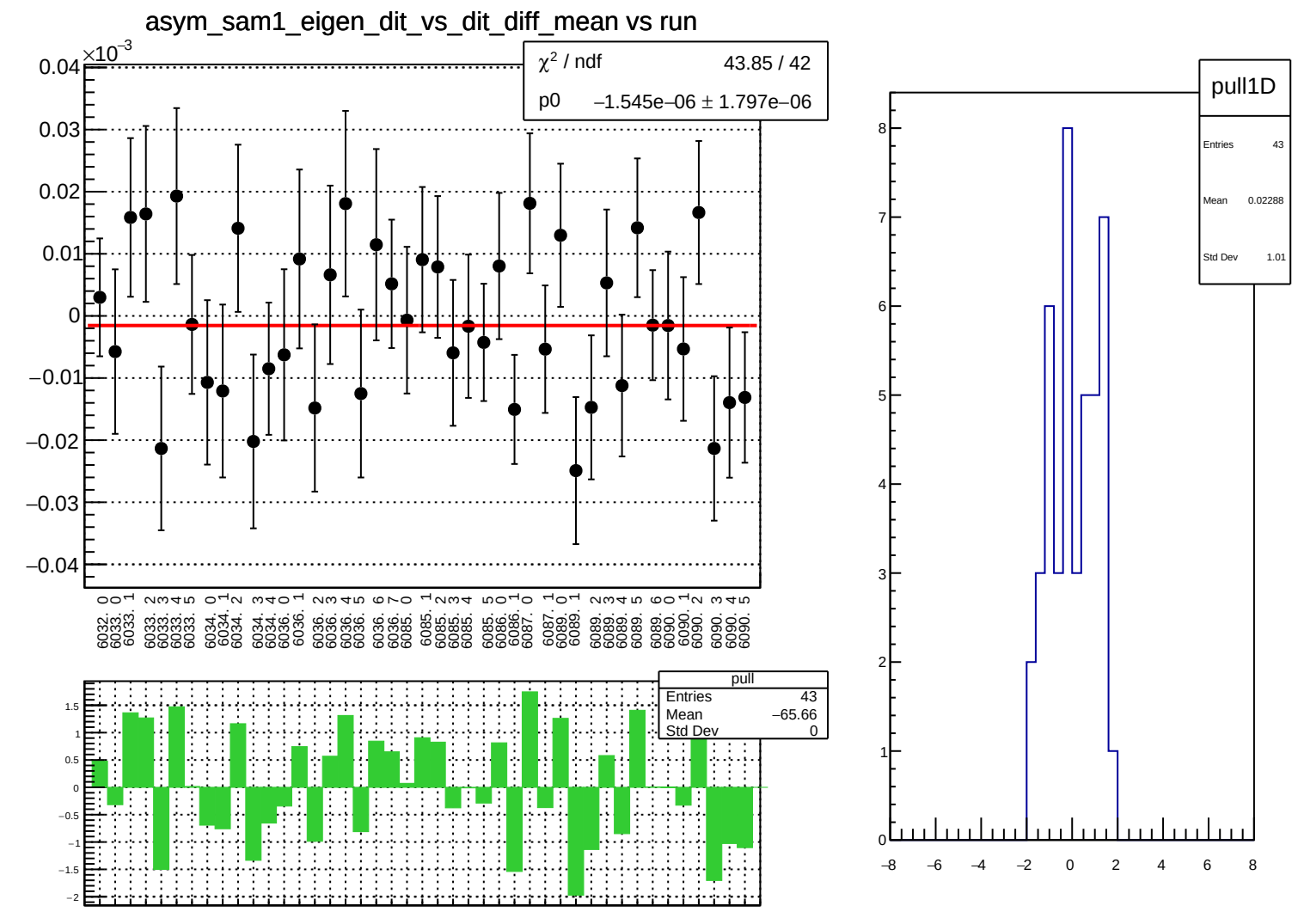

pull1D
Entries 43
Mean 0.05479
Std Dev 1.089

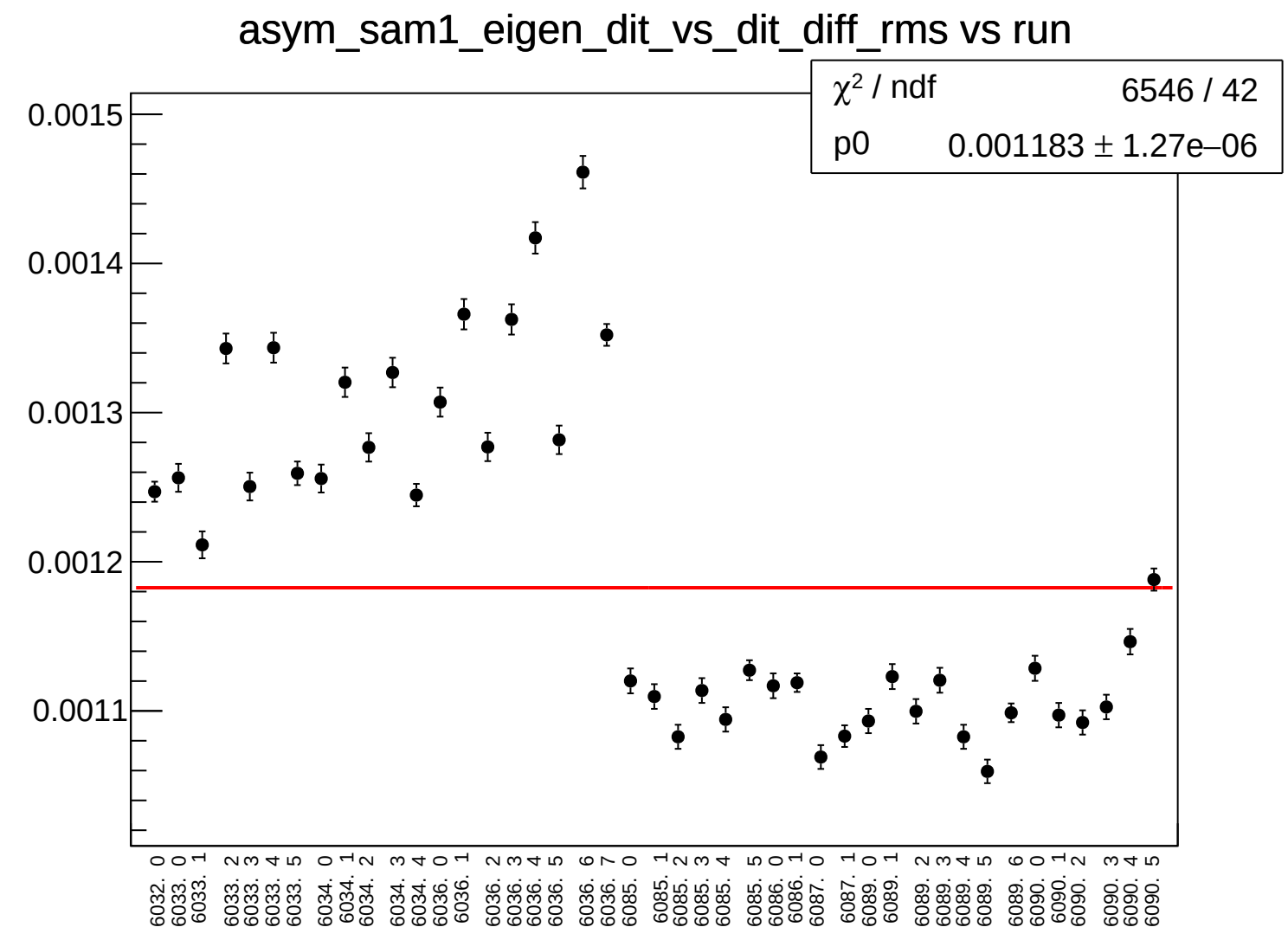

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 42
p0 12.44 ± 0.01387
24
22
20
18
16
14
12
10
8
6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

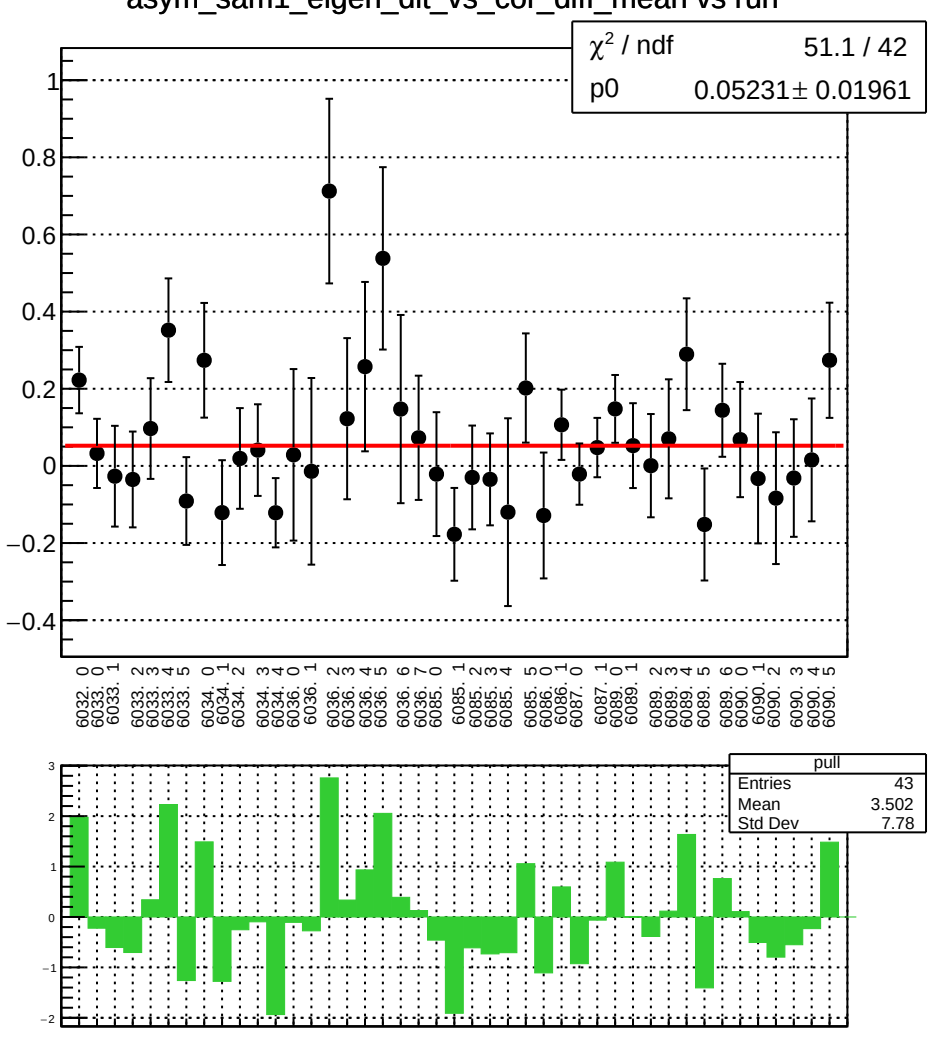

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.1 / 42
p0 0.05232 ± 0.01961
pull
Entries 43
Mean 3.504
Std Dev 7.787

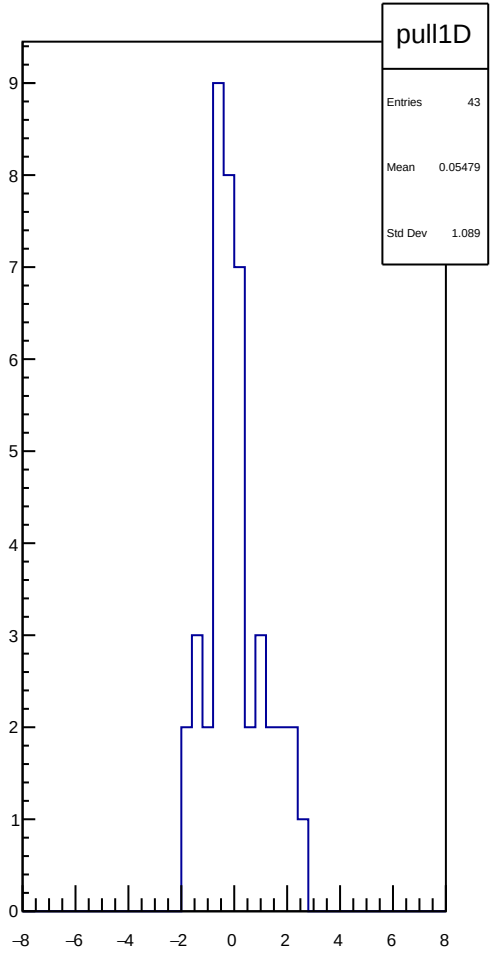

pull1D
Entries 43
Mean 0.05479
Std Dev 1.089

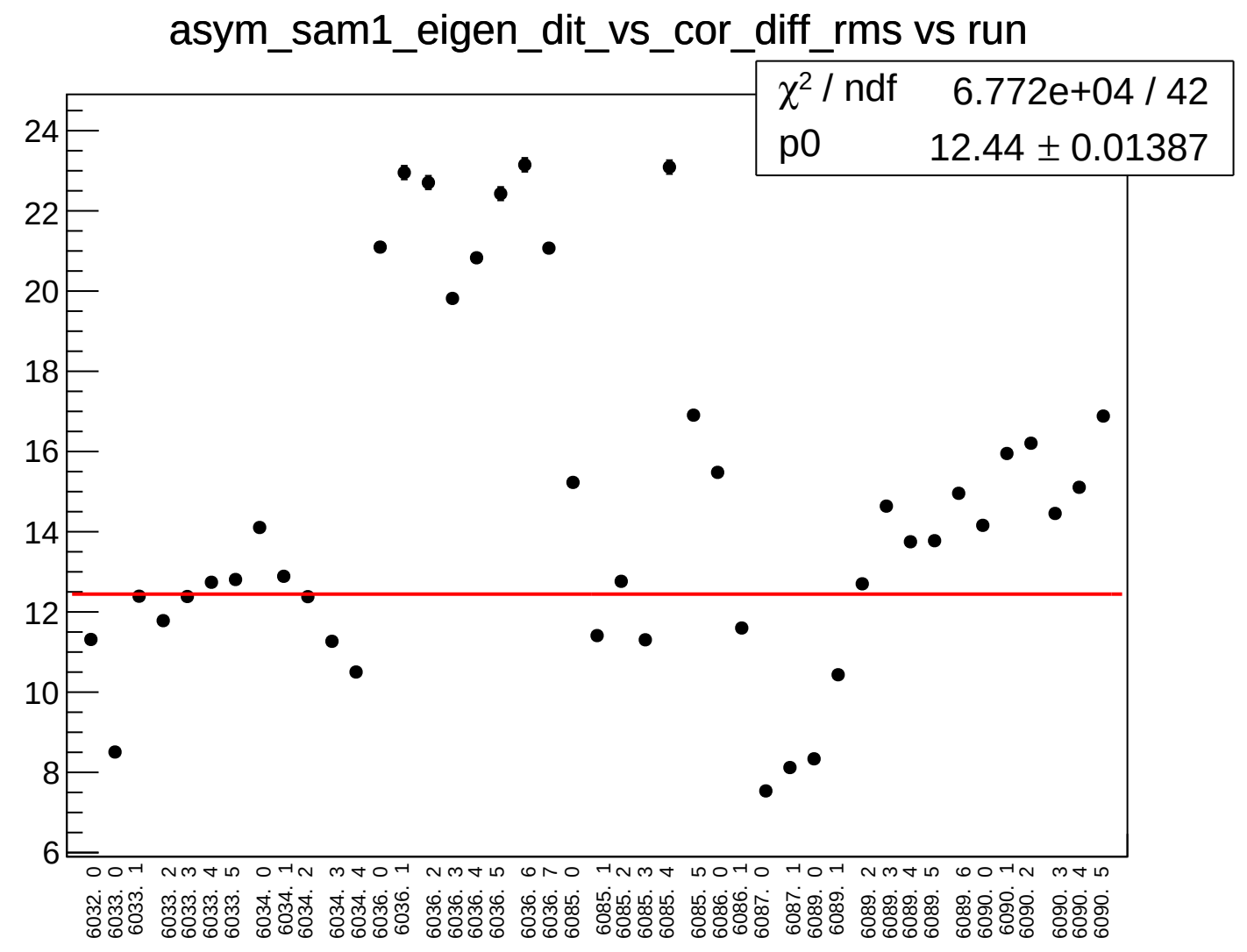

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 42
p0 12.44 ± 0.01387
24
22
20
18
16
14
12
10
8
6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

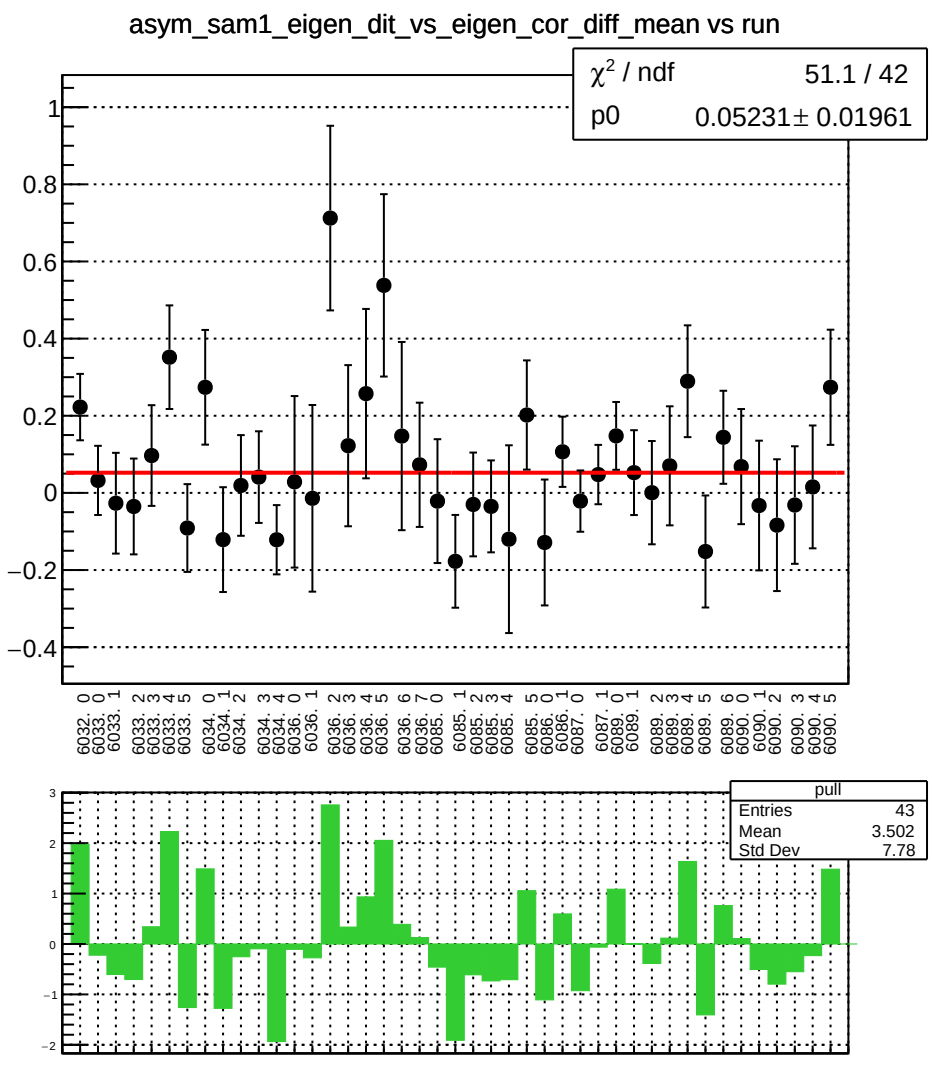

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.85 / 42
p0 −1.545e−06 ± 1.797e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −65.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02288
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

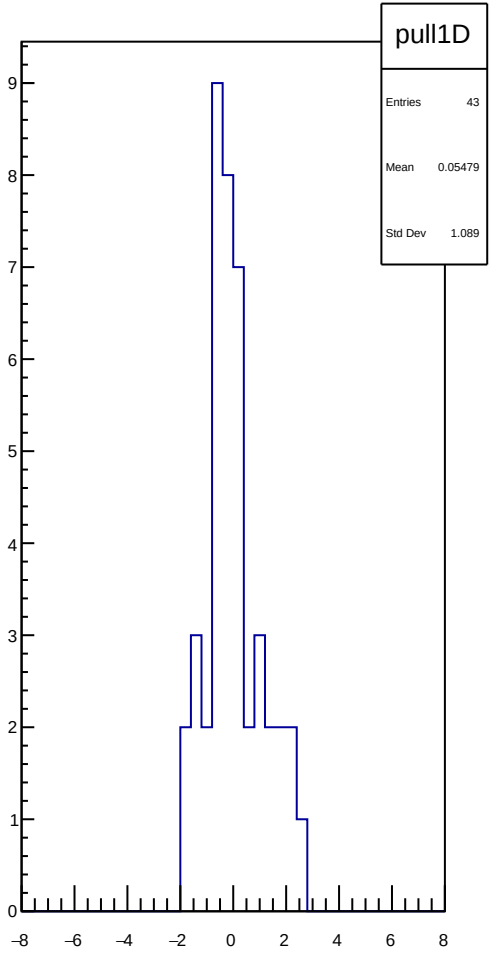

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6546 / 42
p0 0.001183 ± 1.27e–06
0.0015
0.0014
0.0013
0.0012
0.0011
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

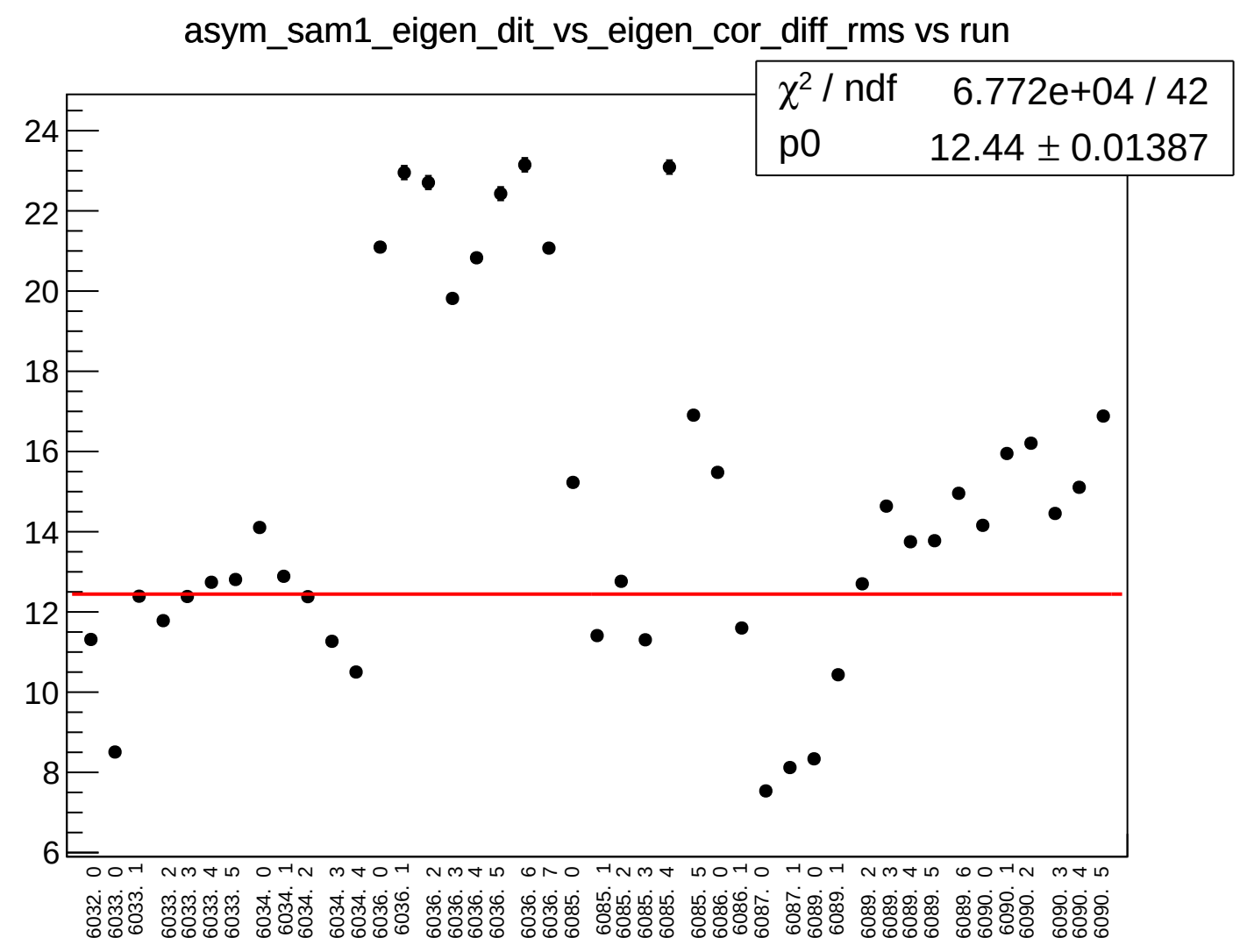

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.1 / 42
p0 0.05231± 0.01961
pull
Entries 43
Mean 3.502
Std Dev 7.78

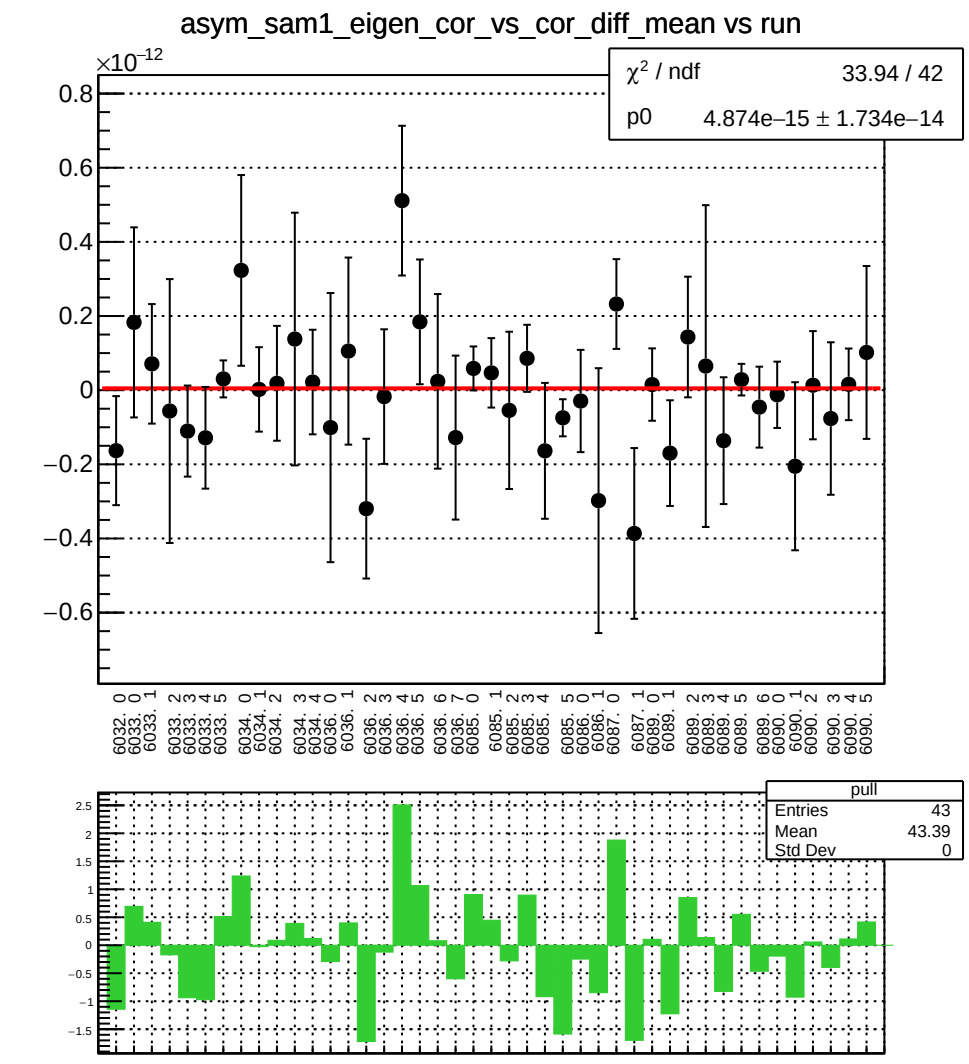

pull1D
Entries 43
Mean 0.05479
Std Dev 1.089

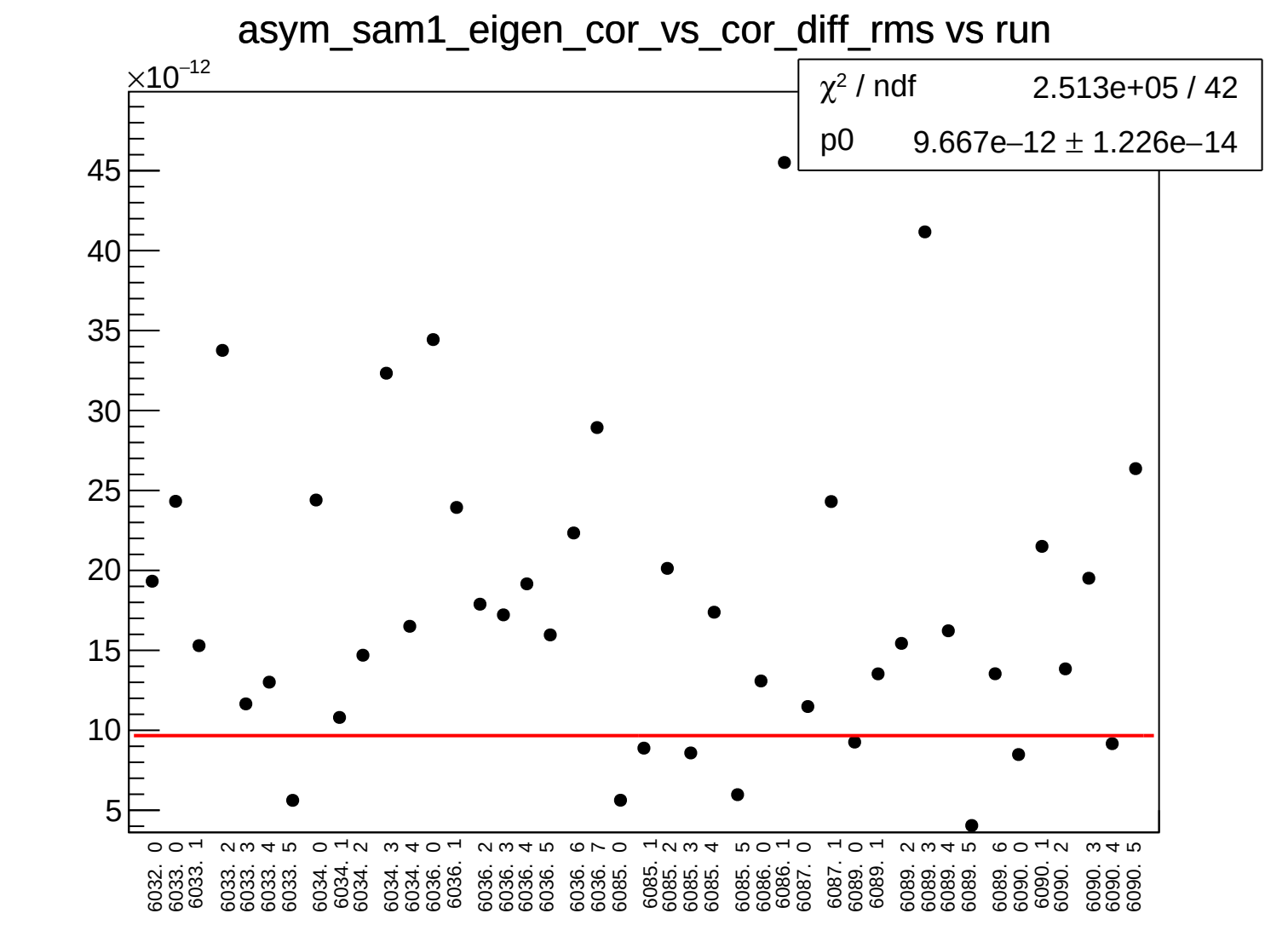

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 42
p0 12.44 ± 0.01387
24
22
20
18
16
14
12
10
8
6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

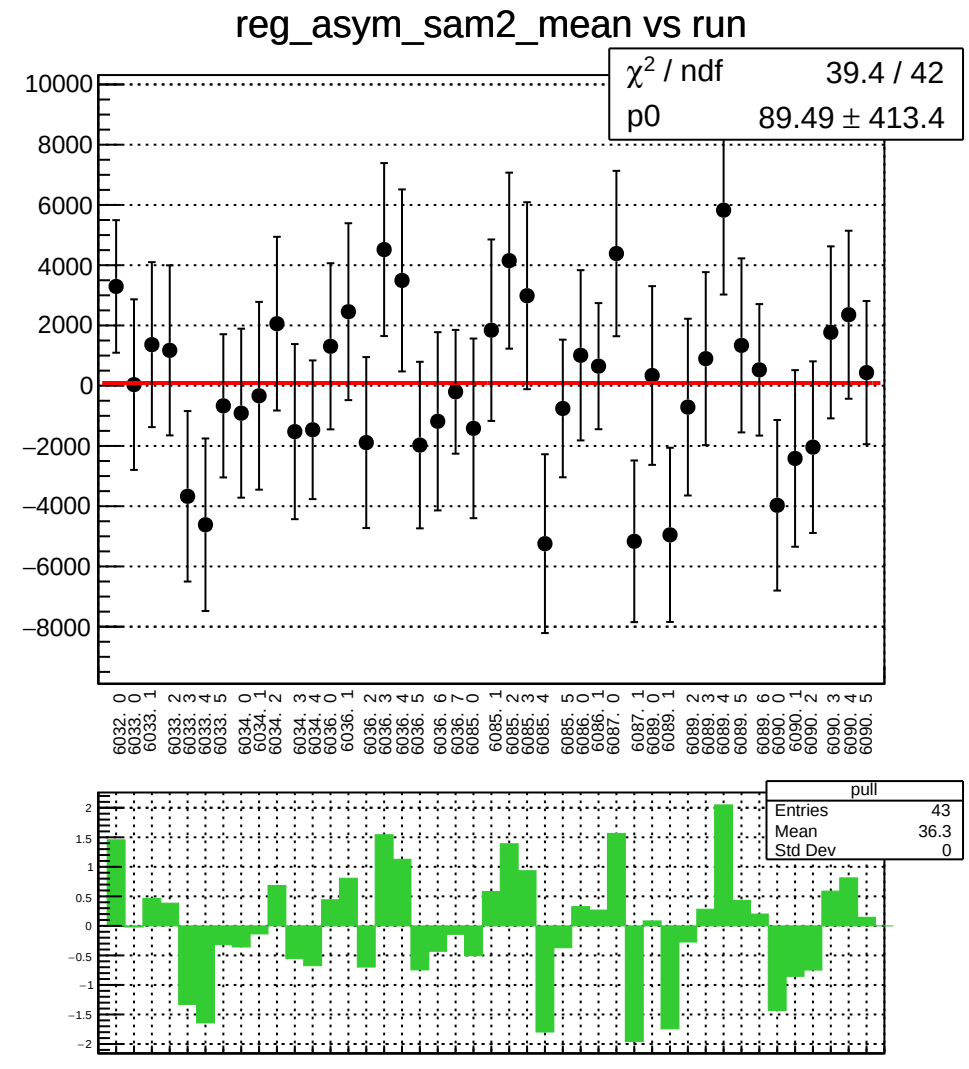

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.1 / 42
p0 0.05231± 0.01961
pull
Entries 43
Mean 3.502
Std Dev 7.78

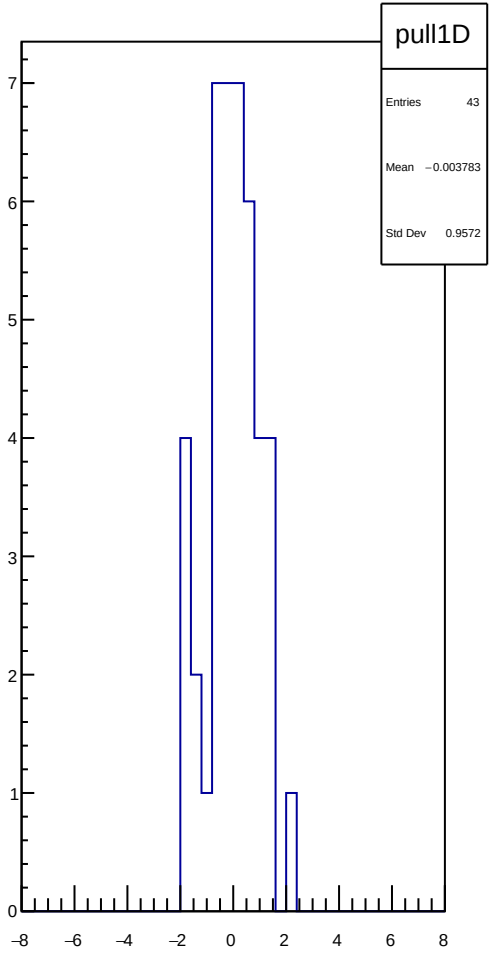

pull1D
Entries 43
Mean 0.05479
Std Dev 1.089

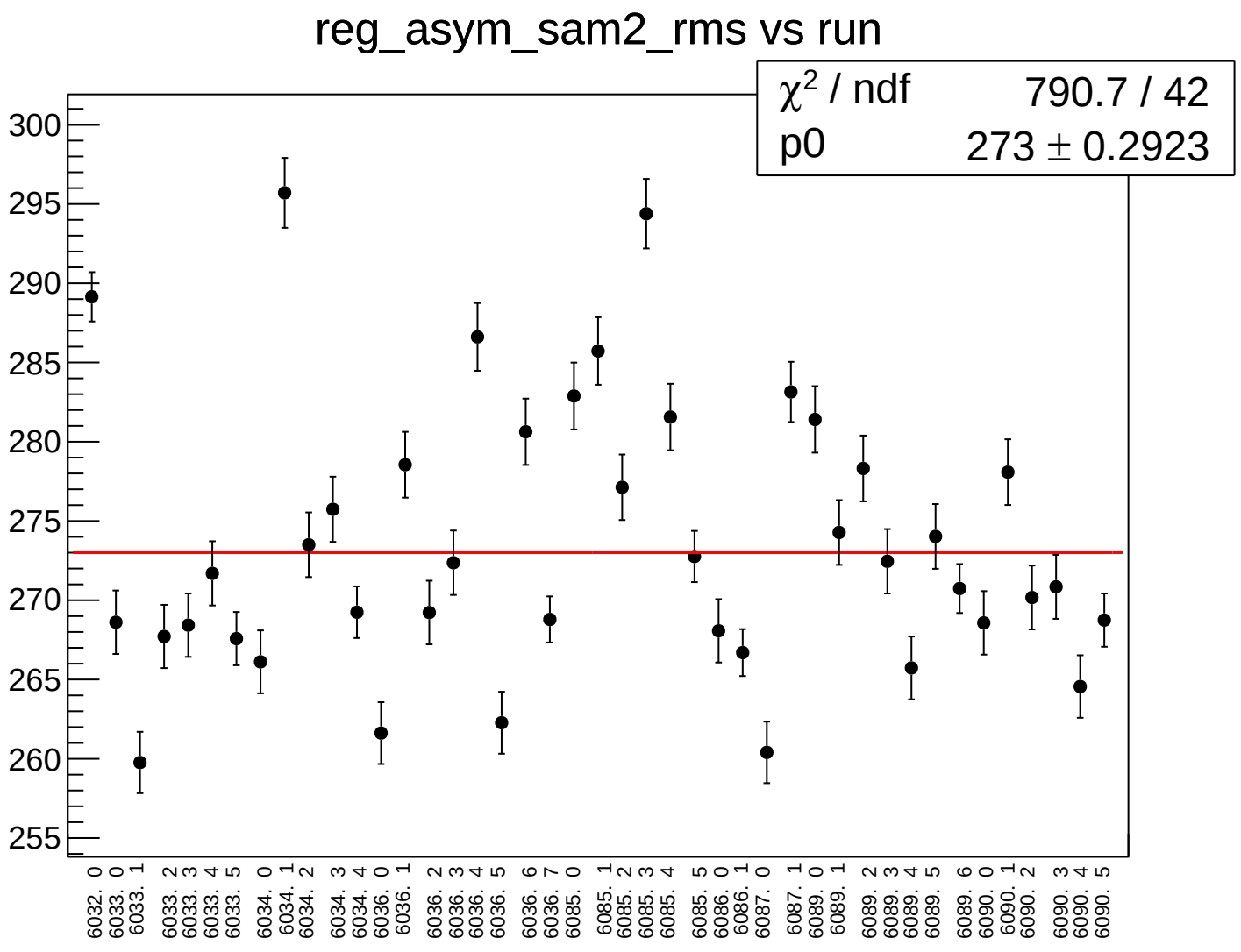

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 42
p0 12.44 ± 0.01387
24
22
20
18
16
14
12
10
8
6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

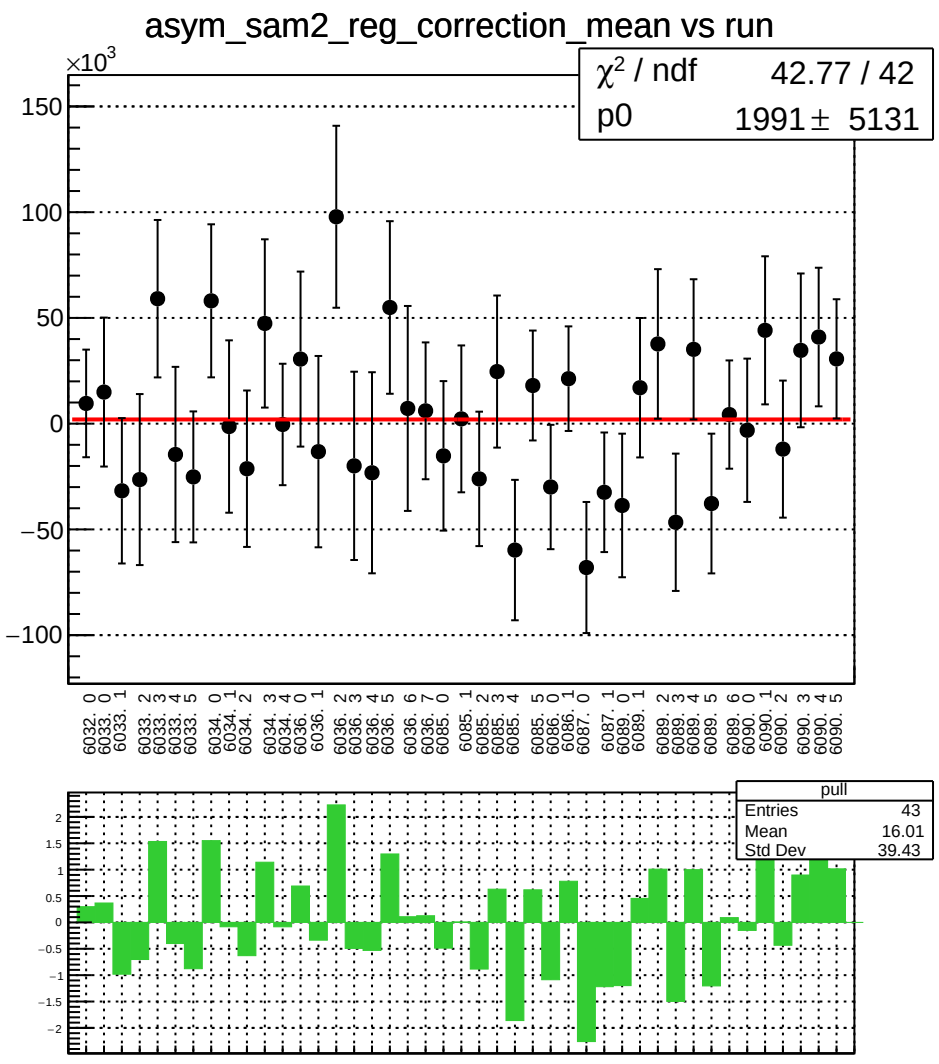

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 33.94 / 42
p0 4.874e−15 ± 1.734e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 43.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.04015
Std Dev 0.8876
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

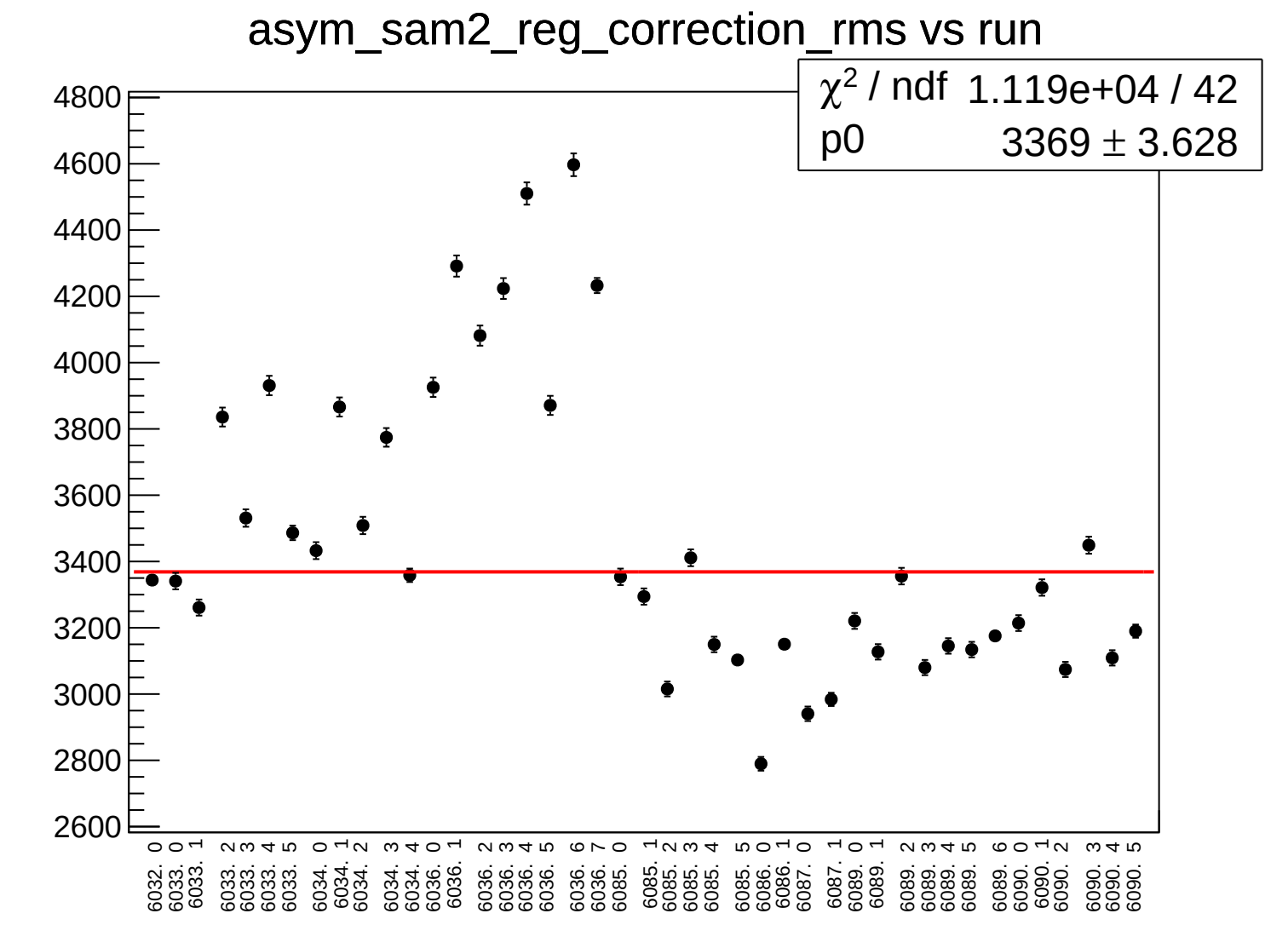

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.513e+05 / 42
p0 9.667e−12 ± 1.226e−14
45
40
35
30
25
20
15
10
5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

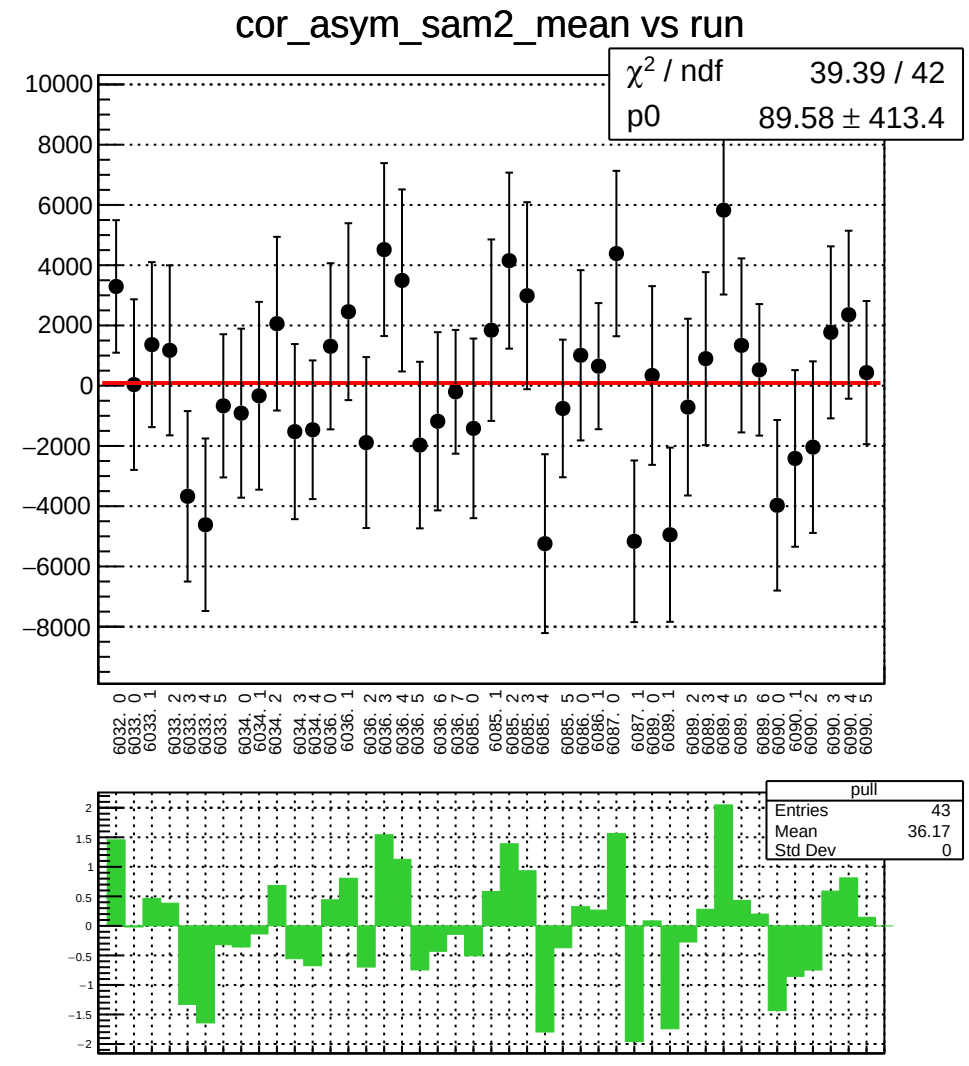

reg_asym_sam2_mean vs run
χ² / ndf 39.4 / 42
p0 89.49 ± 413.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

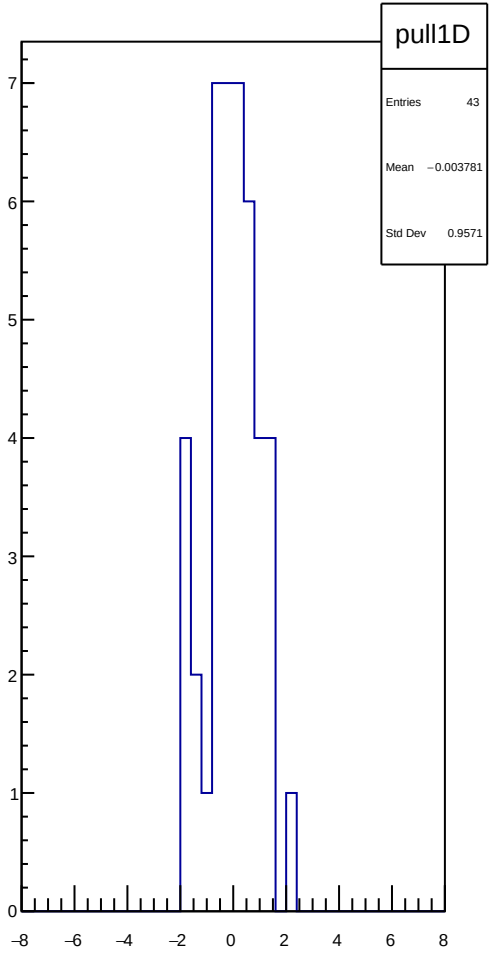

pull1D
Entries 43
Mean −0.003783
Std Dev 0.9572
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

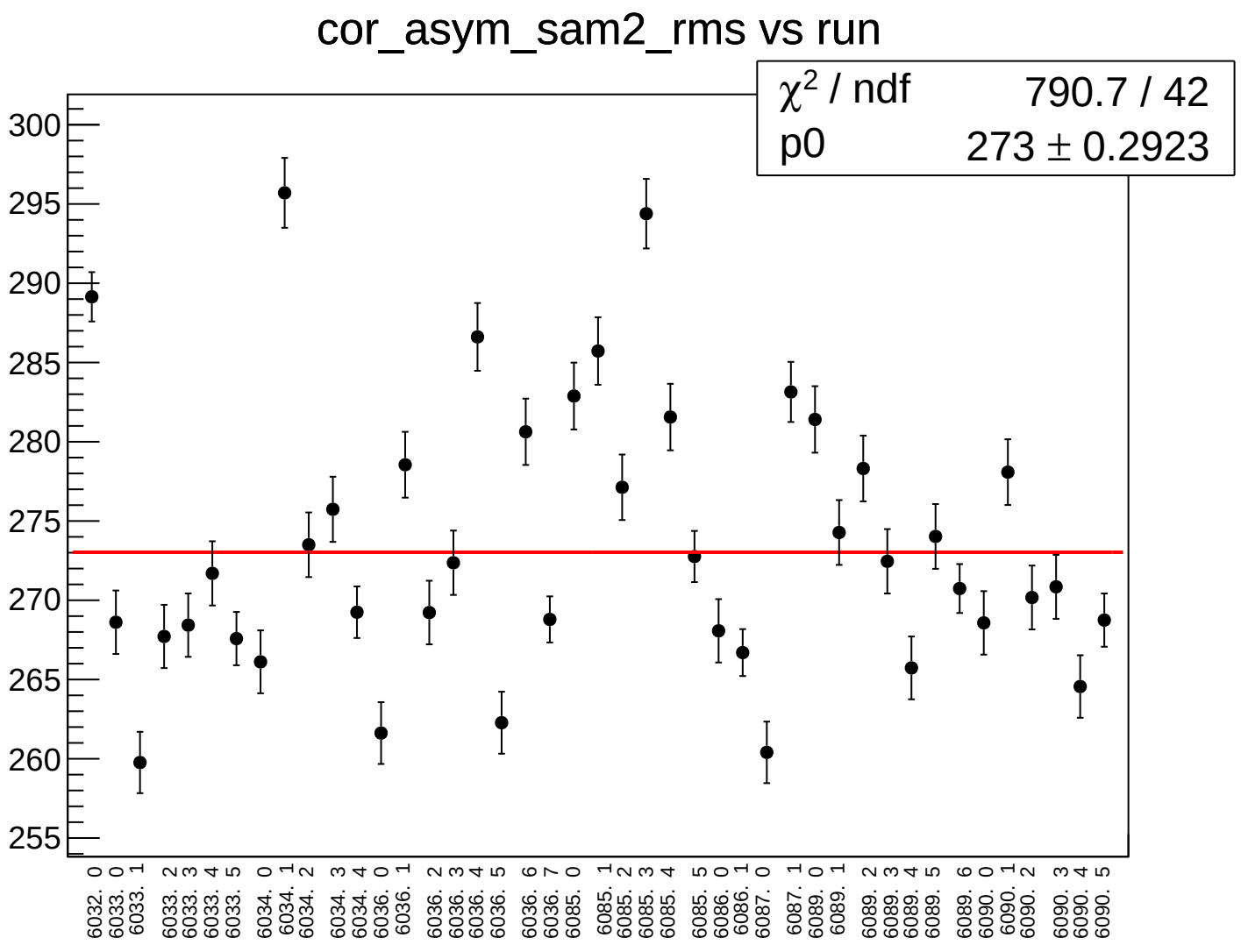

reg_asym_sam2_rms vs run
χ² / ndf 790.7 / 42
p0 273 ± 0.2923
300
295
290
285
280
275
270
265
260
255
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

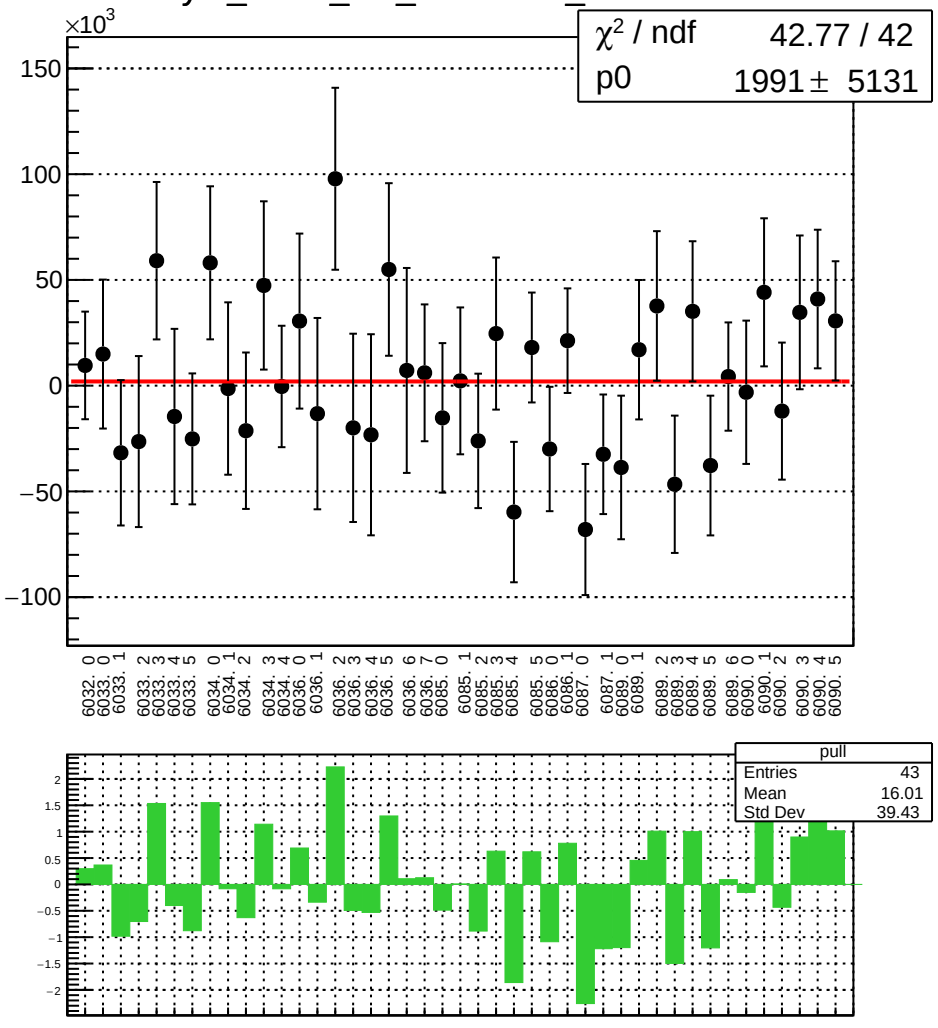

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 42.77 / 42
p0 1991 ± 5131
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.01
Std Dev 39.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01959
Std Dev 0.9971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

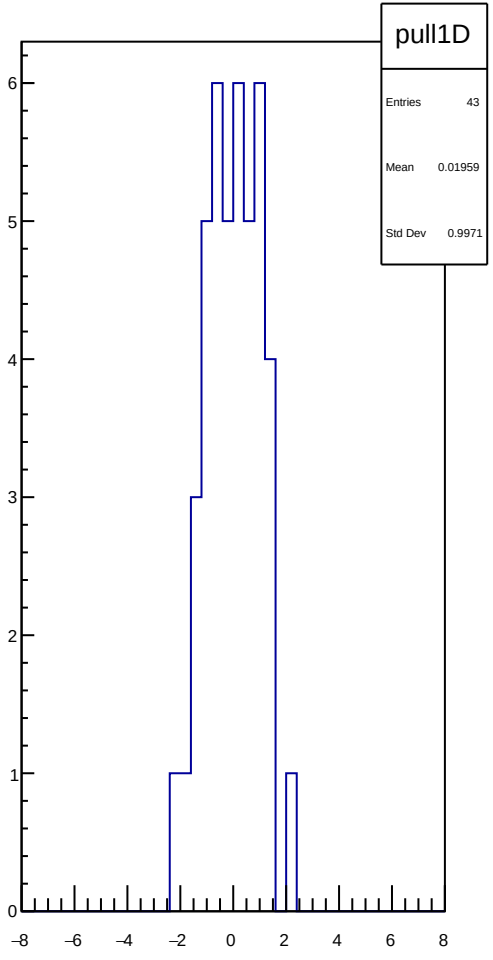

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.119e+04 / 42
p0 3369 ± 3.628
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

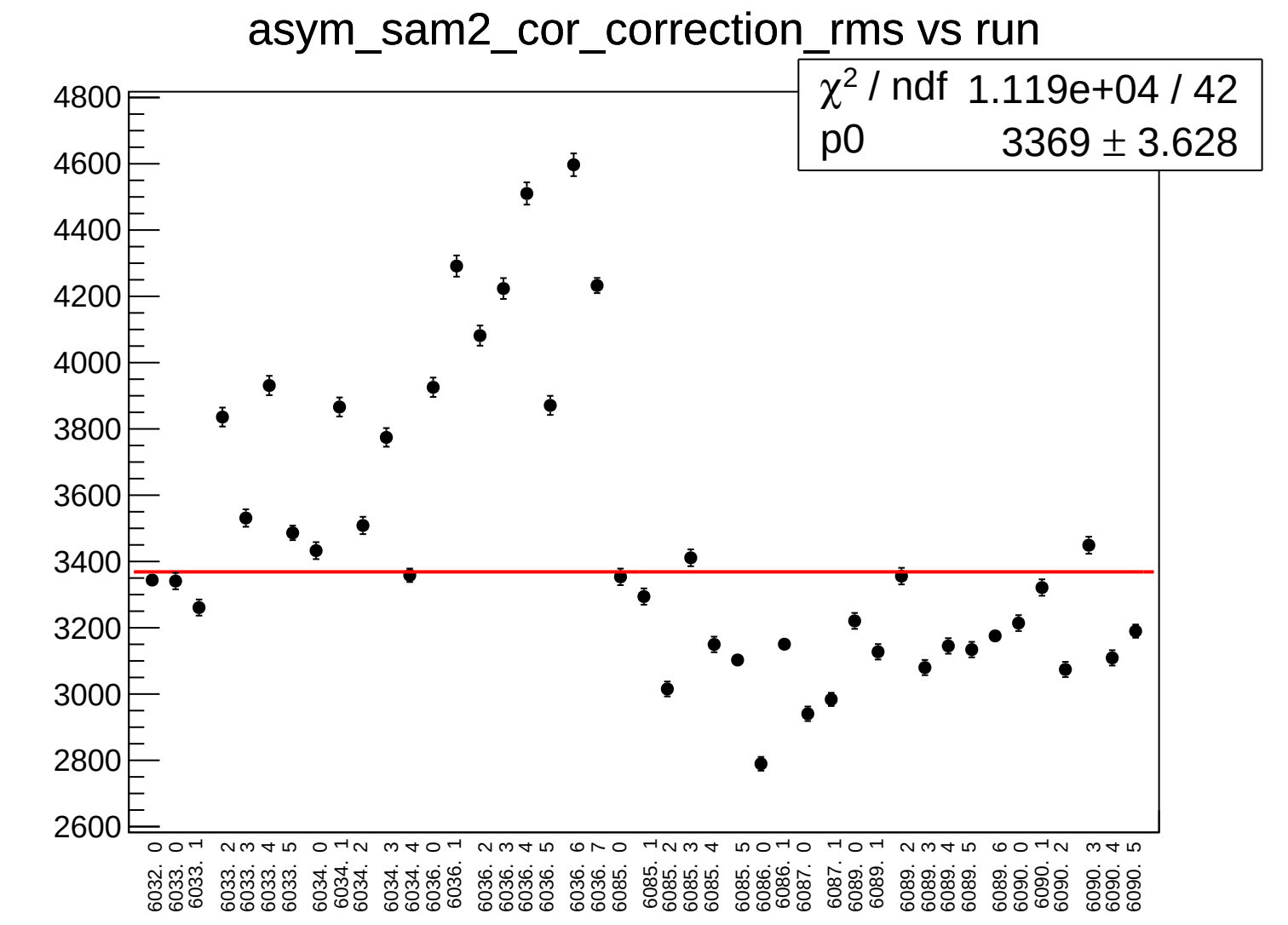

cor_asym_sam2_mean vs run
χ² / ndf 39.39 / 42
p0 89.58 ± 413.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

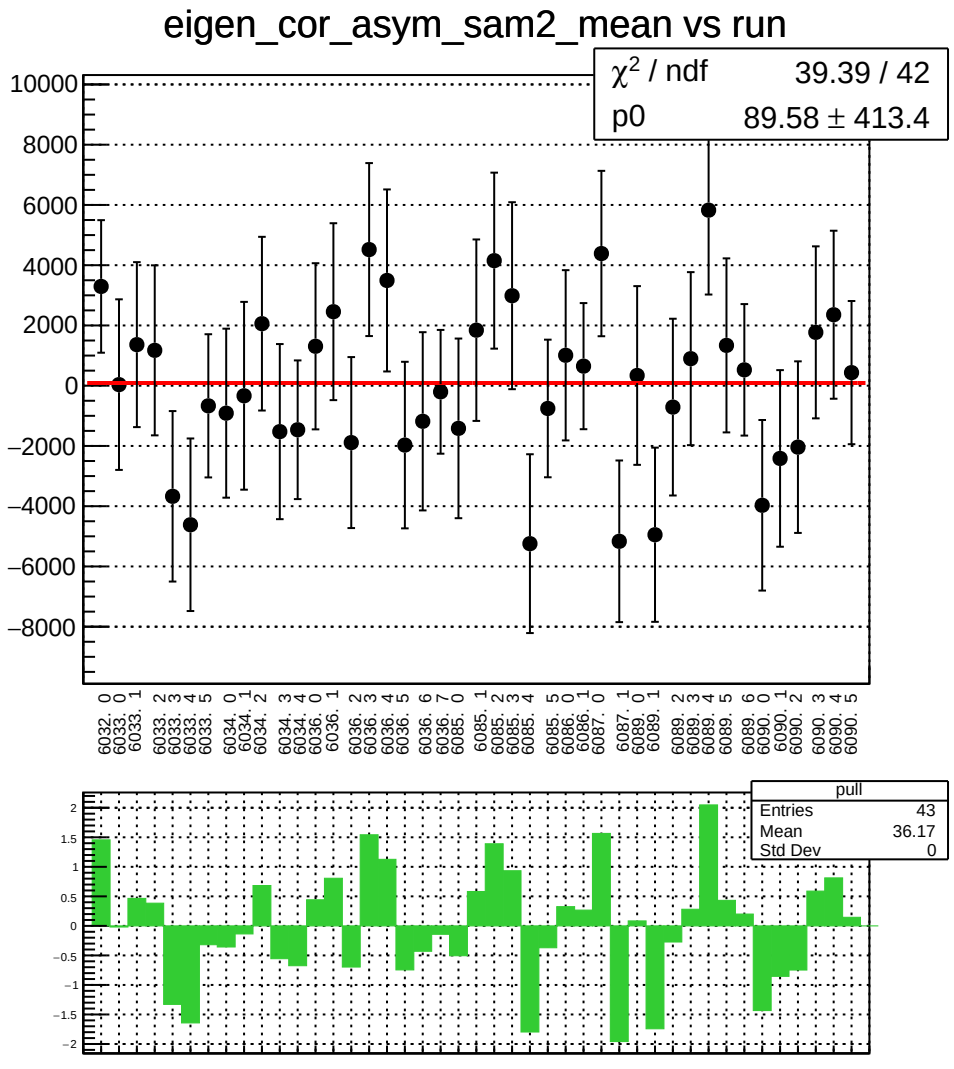

pull1D
Entries 43
Mean −0.003781
Std Dev 0.9571
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

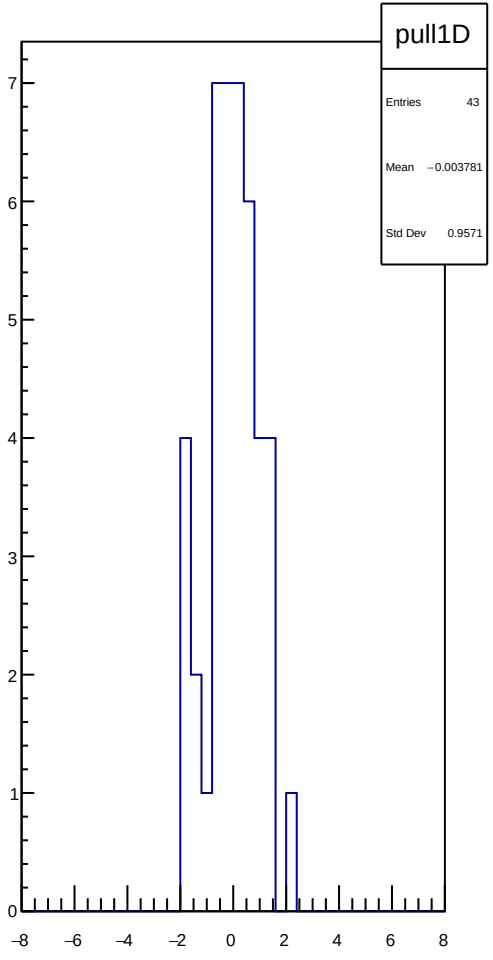

cor_asym_sam2_rms vs run
χ² / ndf 790.7 / 42
p0 273 ± 0.2923
300
295
290
285
280
275
270
265
260
255
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

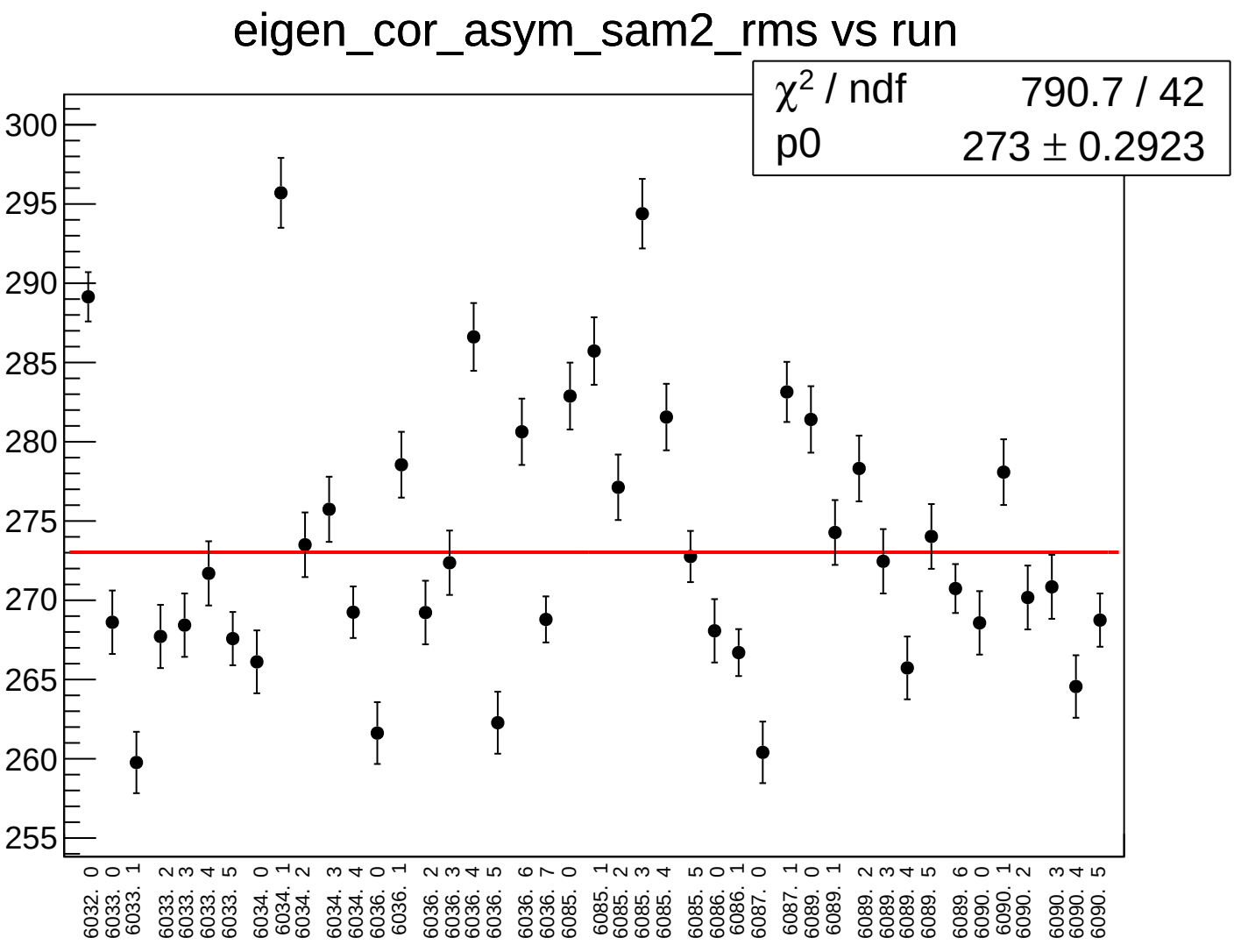

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 42.77 / 42
p0 1991 ± 5131
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.01
Std Dev 39.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

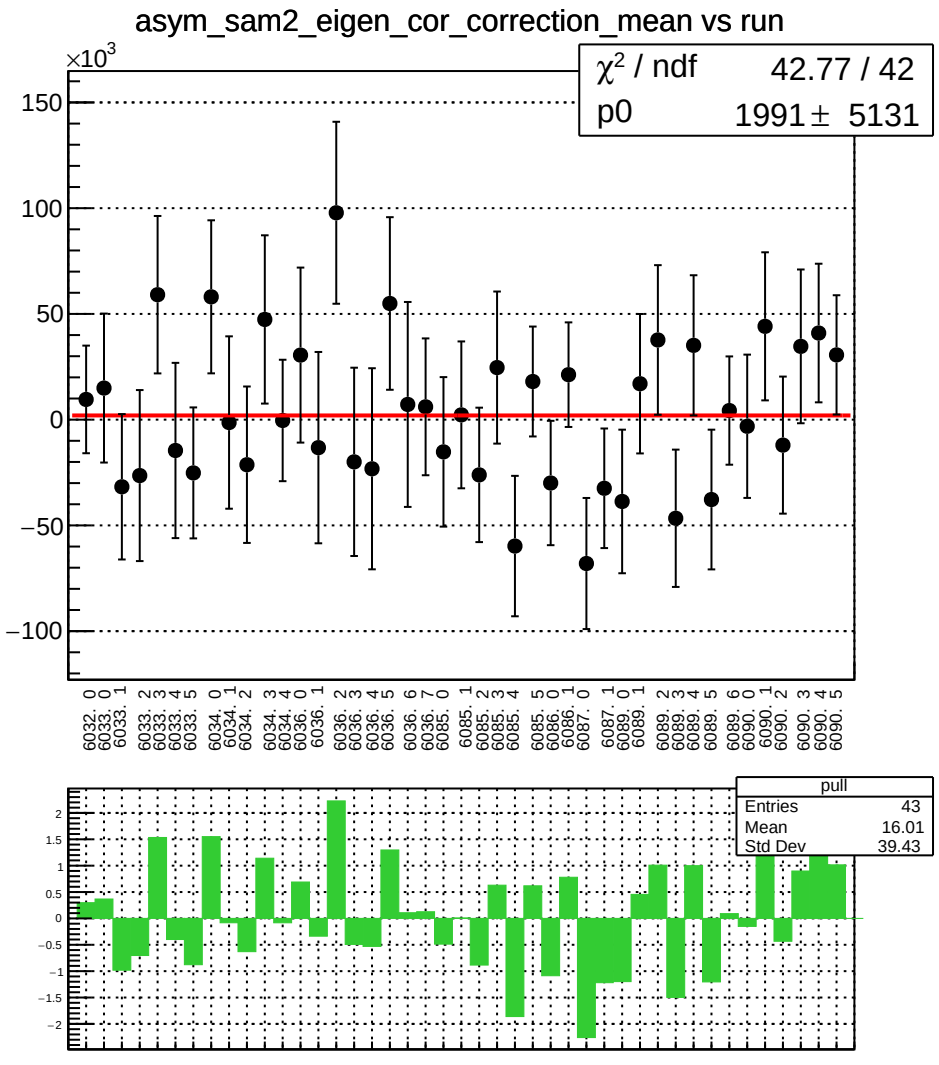

pull1D
Entries 43
Mean 0.01959
Std Dev 0.9971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

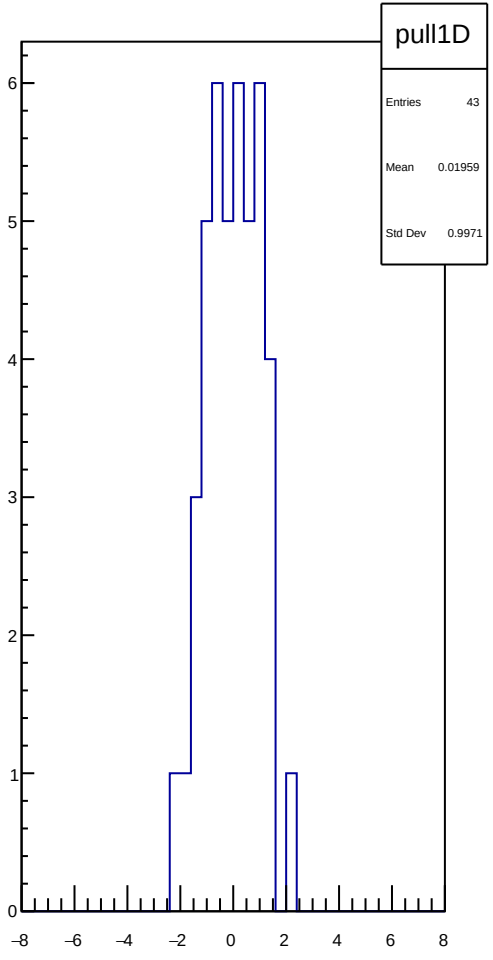

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 42
p0 3369 ± 3.628
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

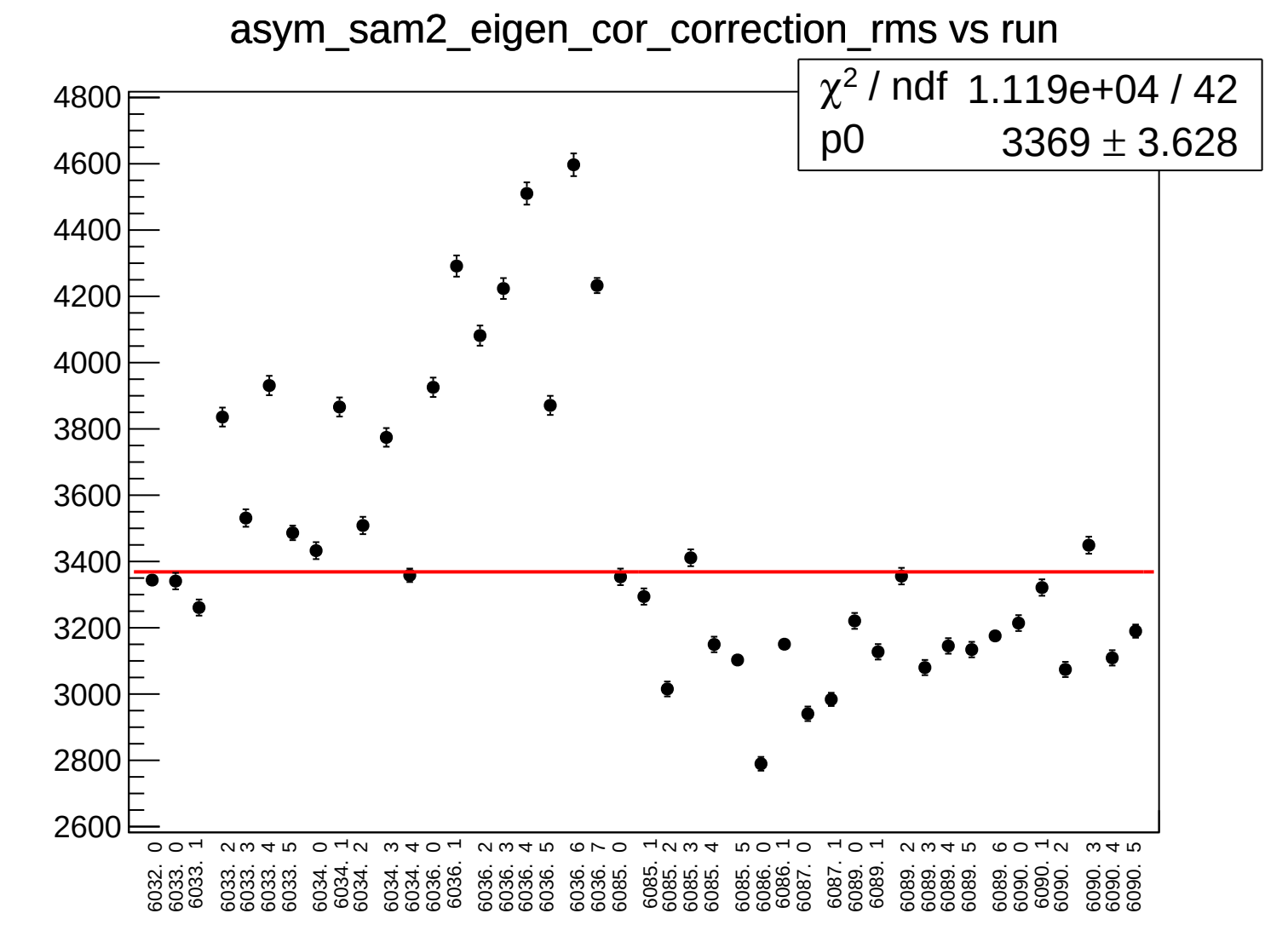

eigen_cor_asym_sam2_mean vs run
χ² / ndf 39.39 / 42
p0 89.58 ± 413.4
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

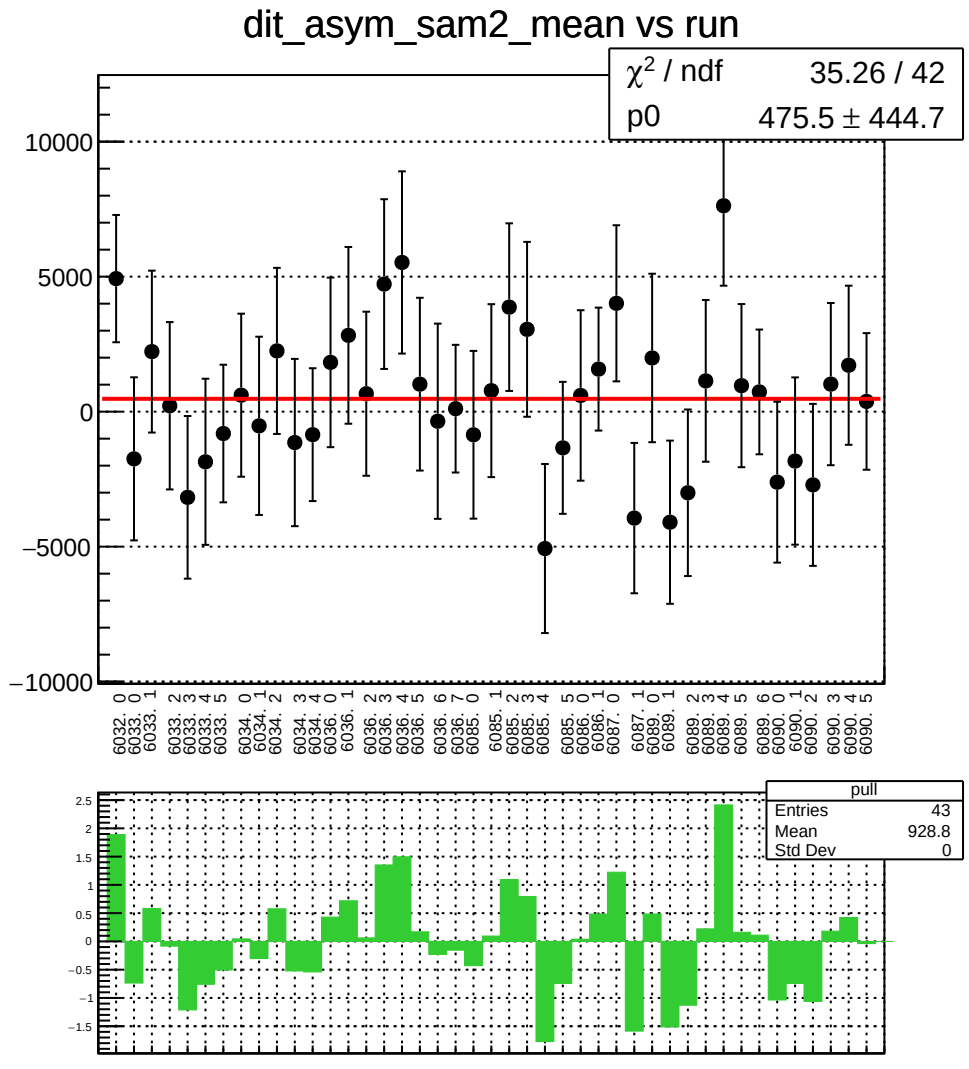

pull1D
Entries 43
Mean −0.003781
Std Dev 0.9571
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

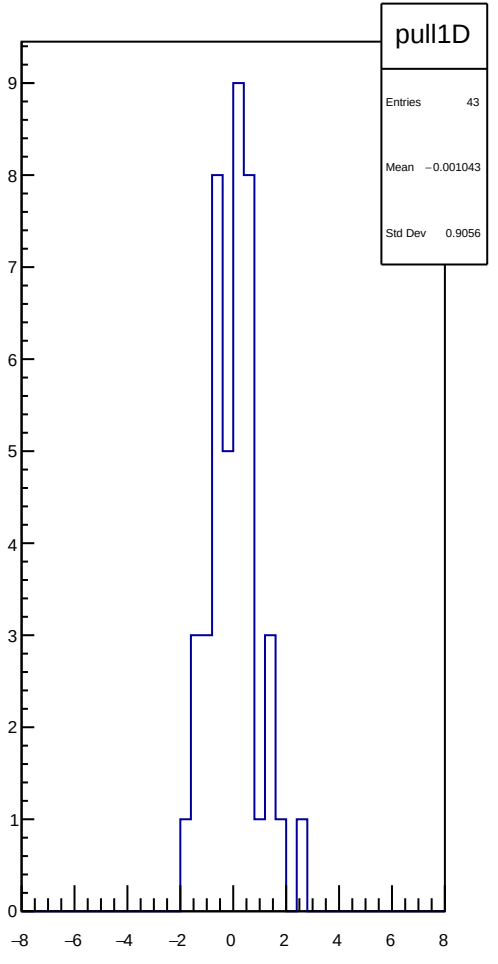

eigen_cor_asym_sam2_rms vs run
χ² / ndf 790.7 / 42
p0 273 ± 0.2923
300
295
290
285
280
275
270
265
260
255
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

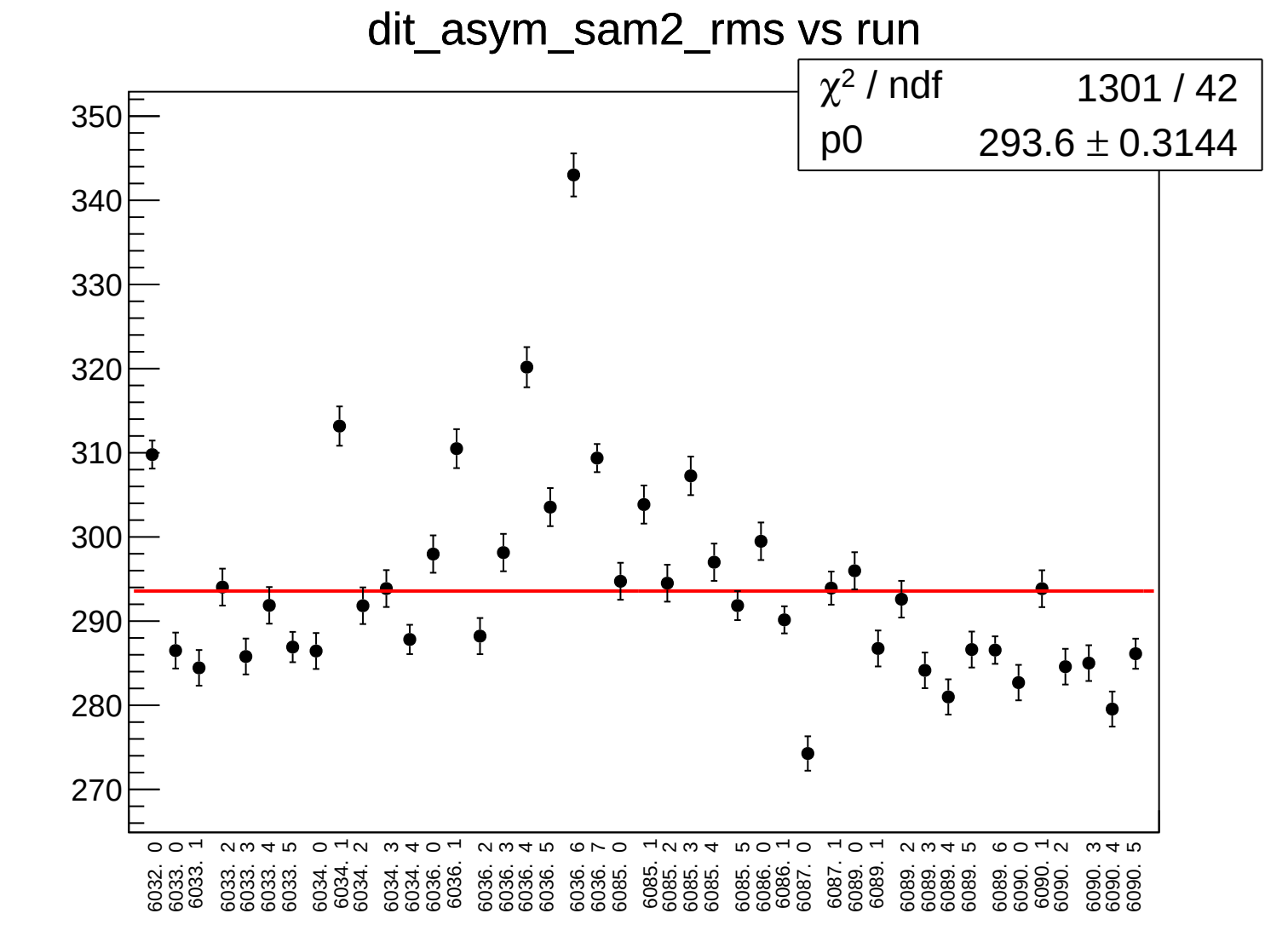

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 42.77 / 42
p0 1991 ± 5131
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.01
Std Dev 39.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

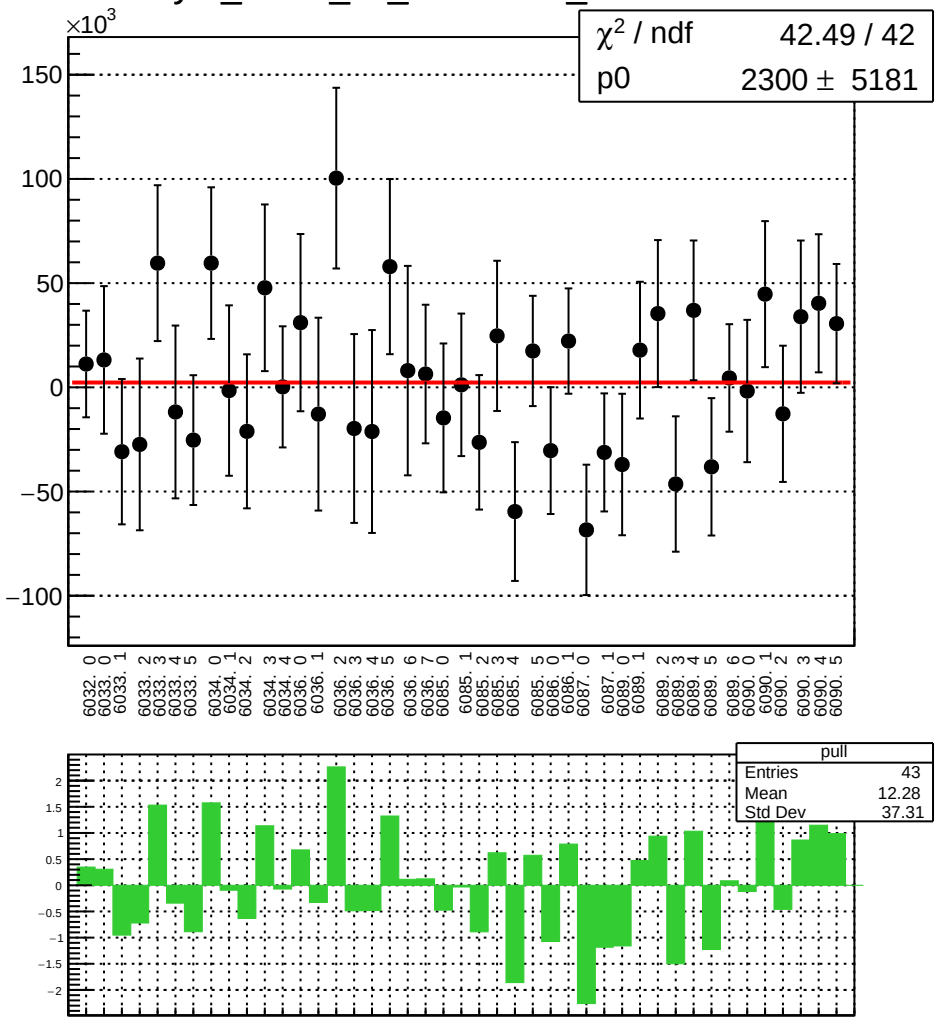

pull1D
Entries 43
Mean 0.01959
Std Dev 0.9971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

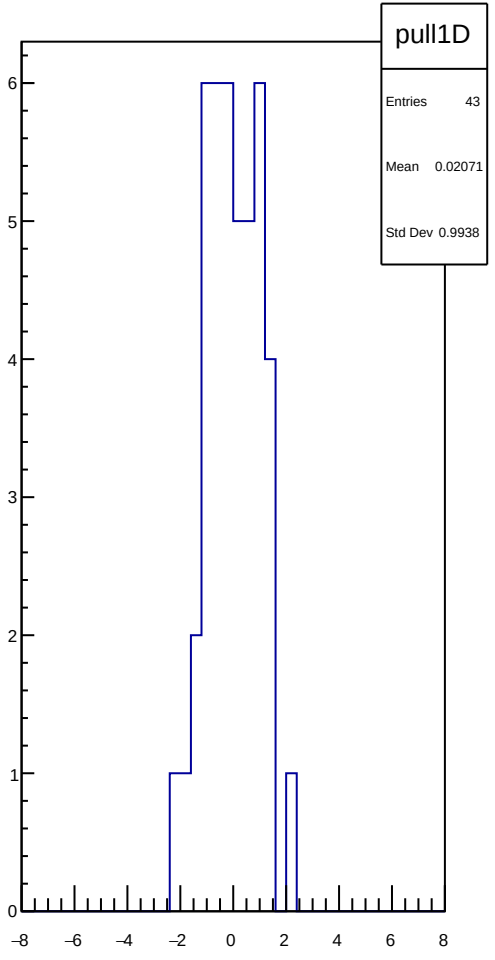

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 42
p0 3369 ± 3.628
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

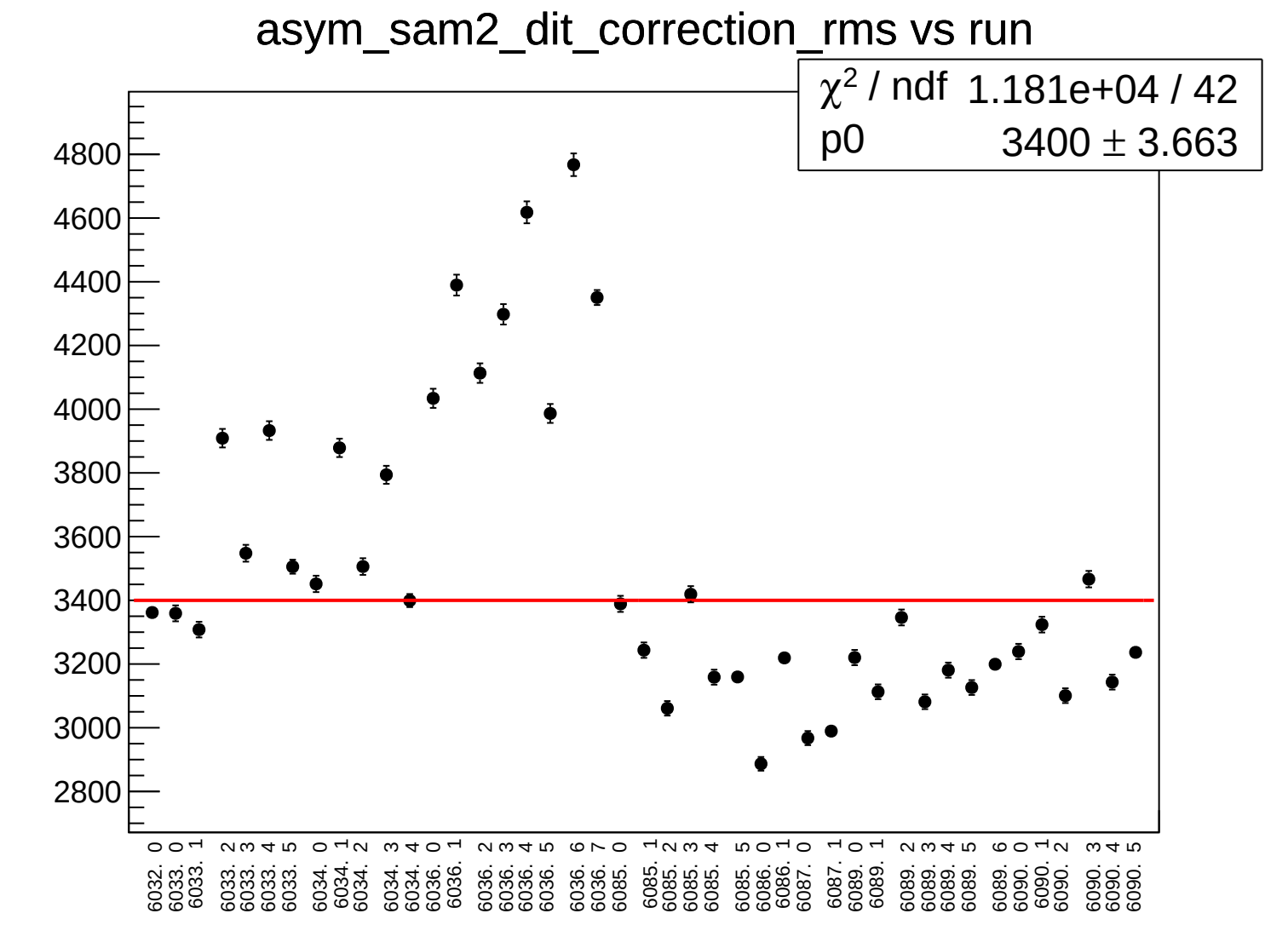

dit_asym_sam2_mean vs run
χ² / ndf 35.26 / 42
p0 475.5 ± 444.7
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 928.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

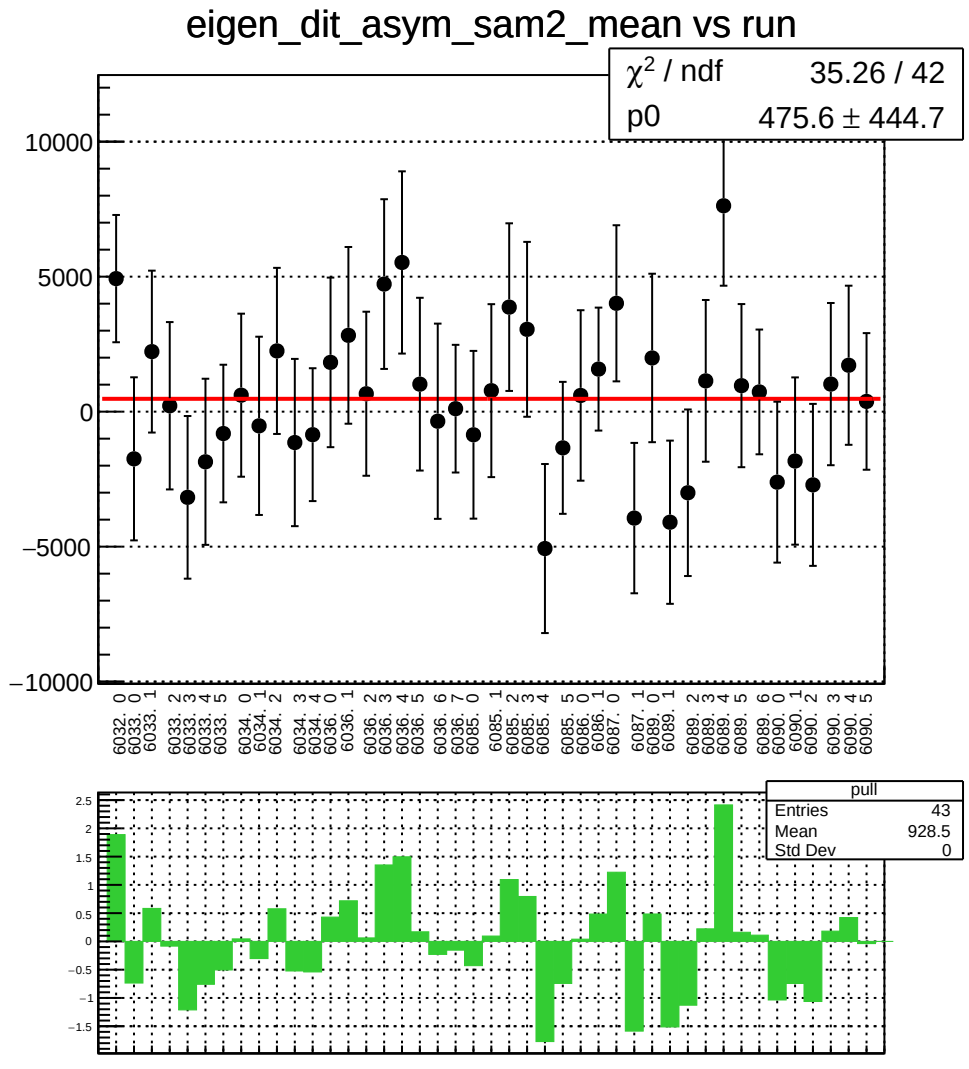

pull1D
Entries 43
Mean −0.001043
Std Dev 0.9056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

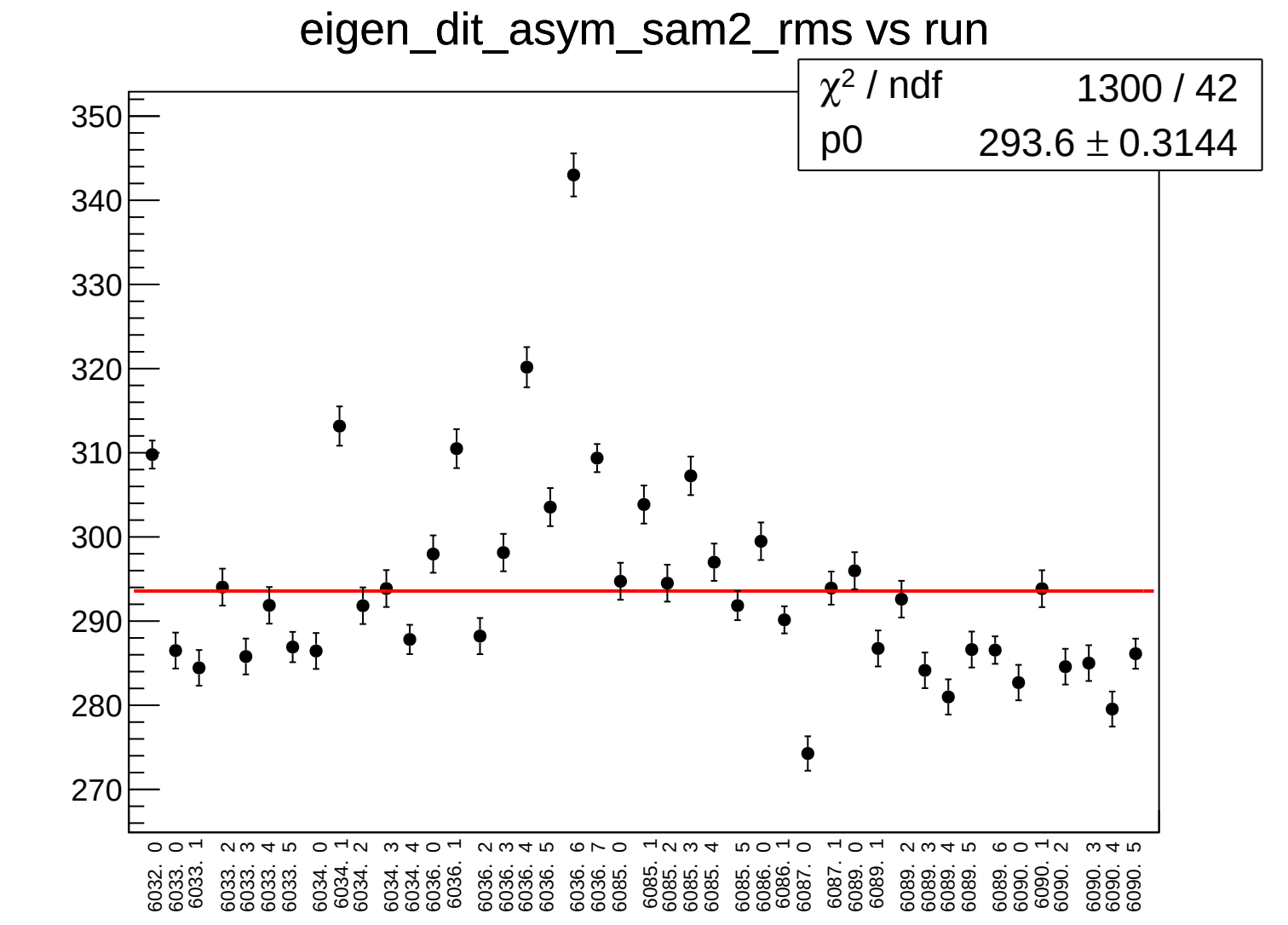

dit_asym_sam2_rms vs run
χ² / ndf 1301 / 42
p0 293.6 ± 0.3144
350
340
330
320
310
300
290
280
270
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

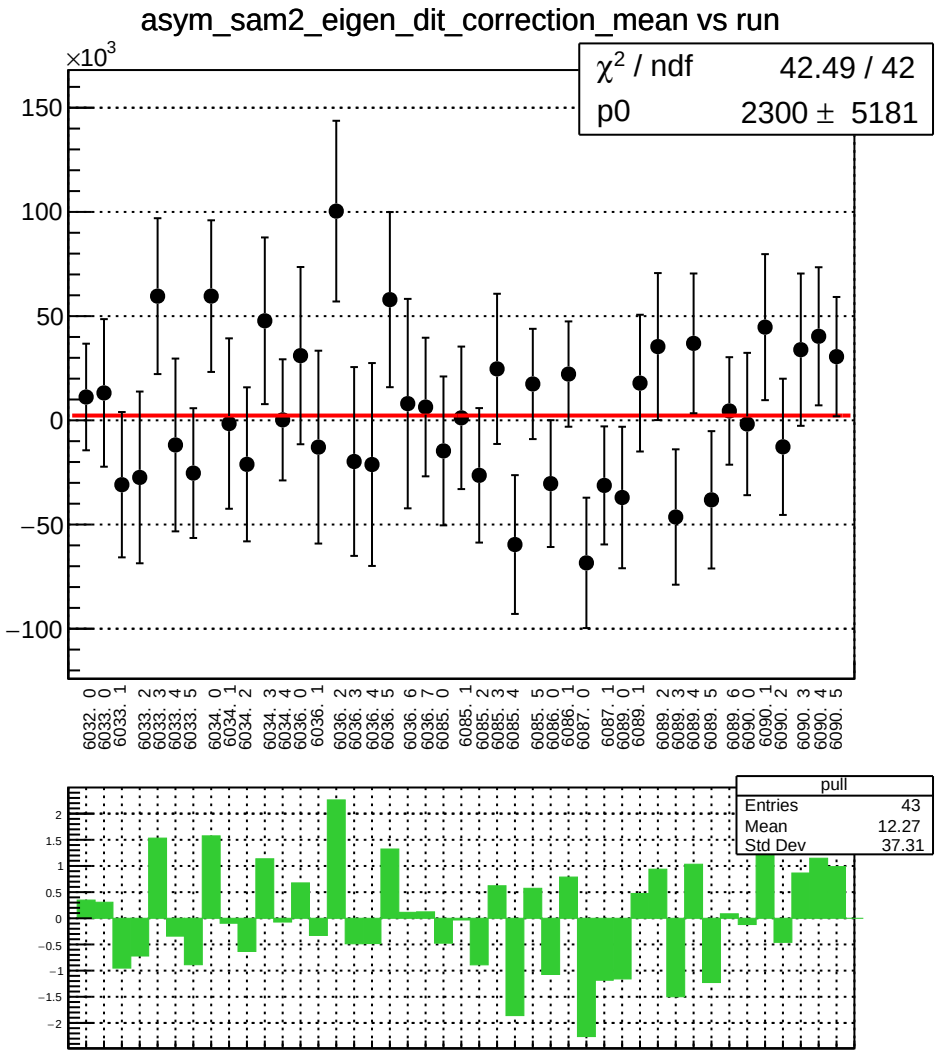

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 42.49 / 42
p0 2300 ± 5181
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.28
Std Dev 37.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

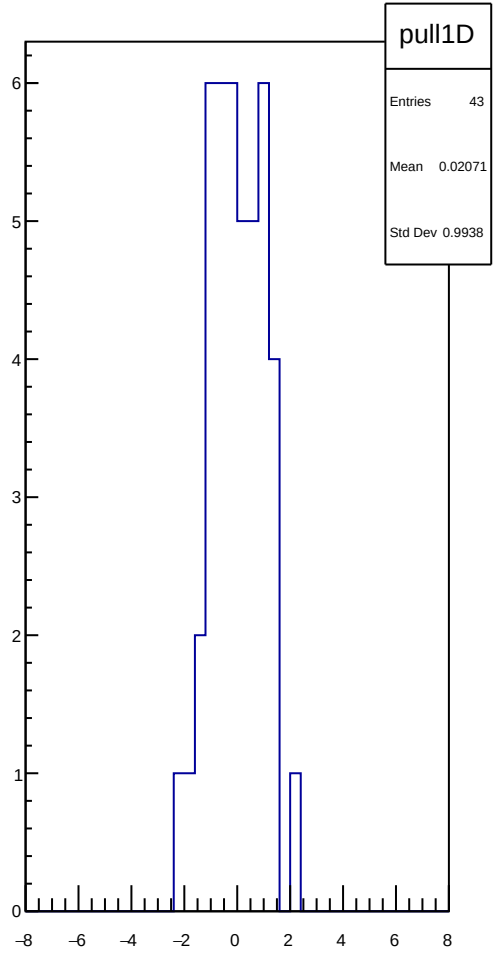

pull1D
Entries 43
Mean 0.02071
Std Dev 0.9938
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

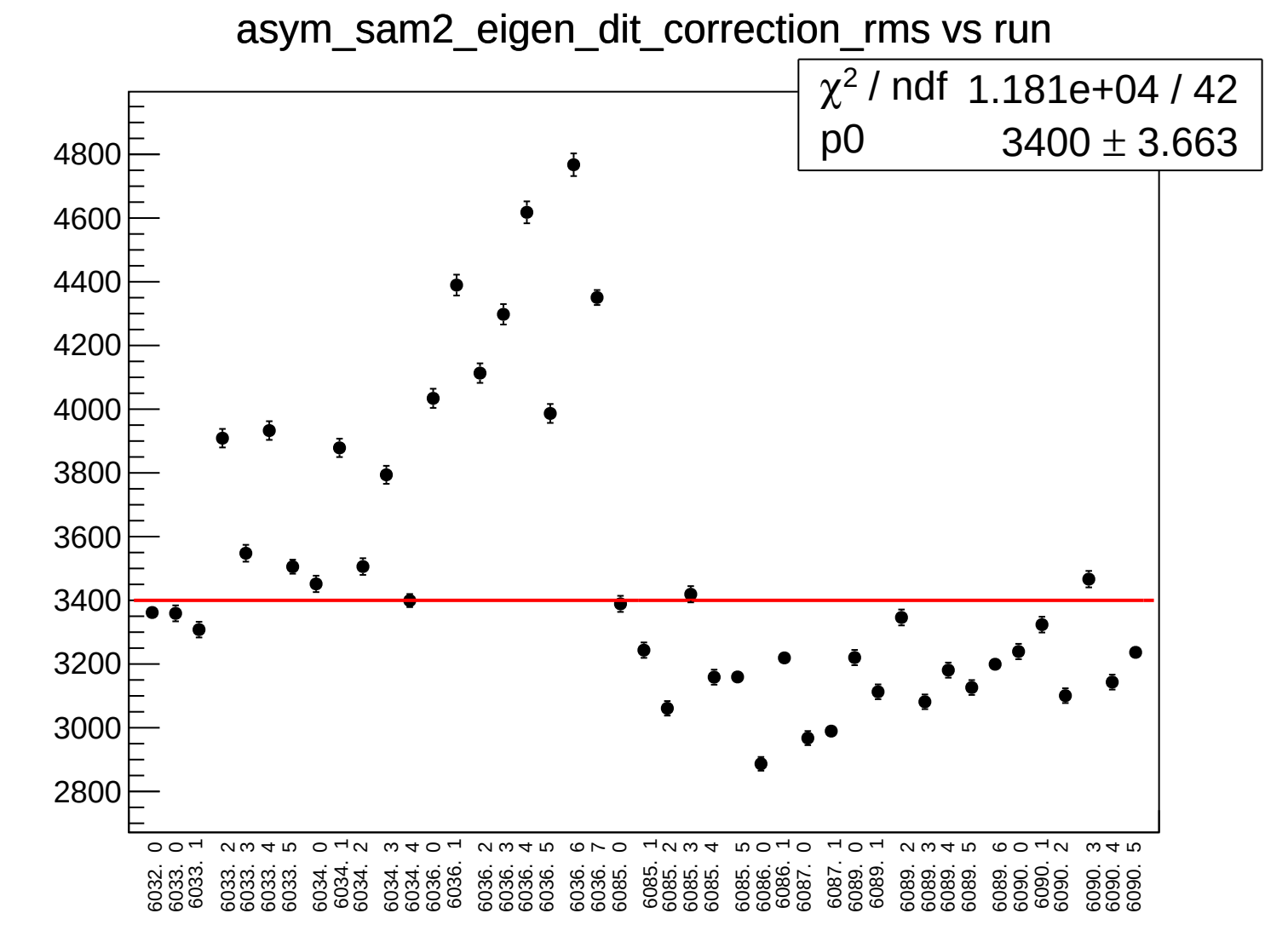

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.181e+04 / 42
p0 3400 ± 3.663
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

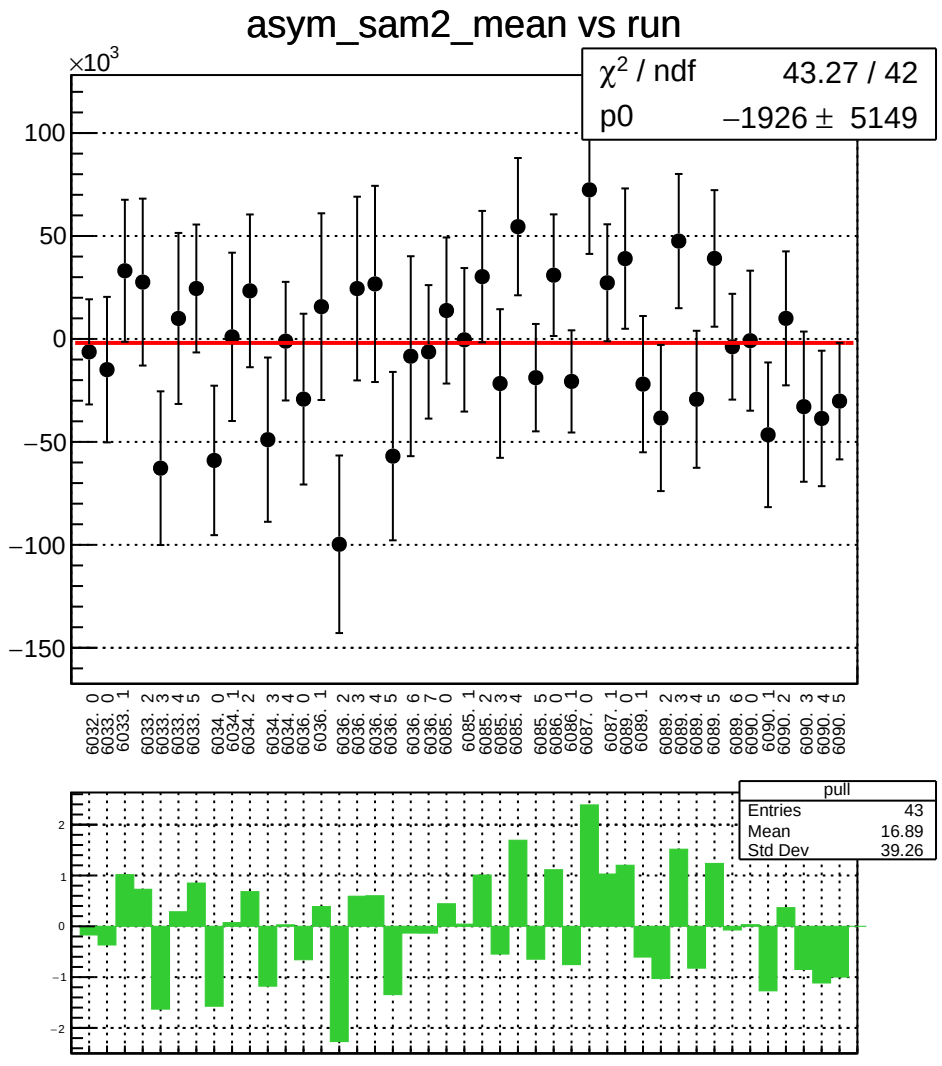

eigen_dit_asym_sam2_mean vs run
χ² / ndf 35.26 / 42
p0 475.6 ± 444.7
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 928.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.001043
Std Dev 0.9056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

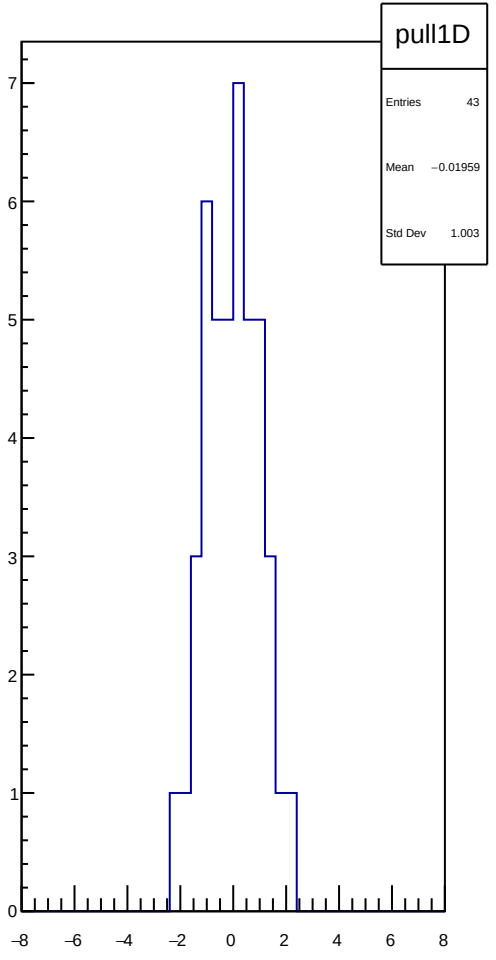

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1300 / 42
p0 293.6 ± 0.3144
350
340
330
320
310
300
290
280
270
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

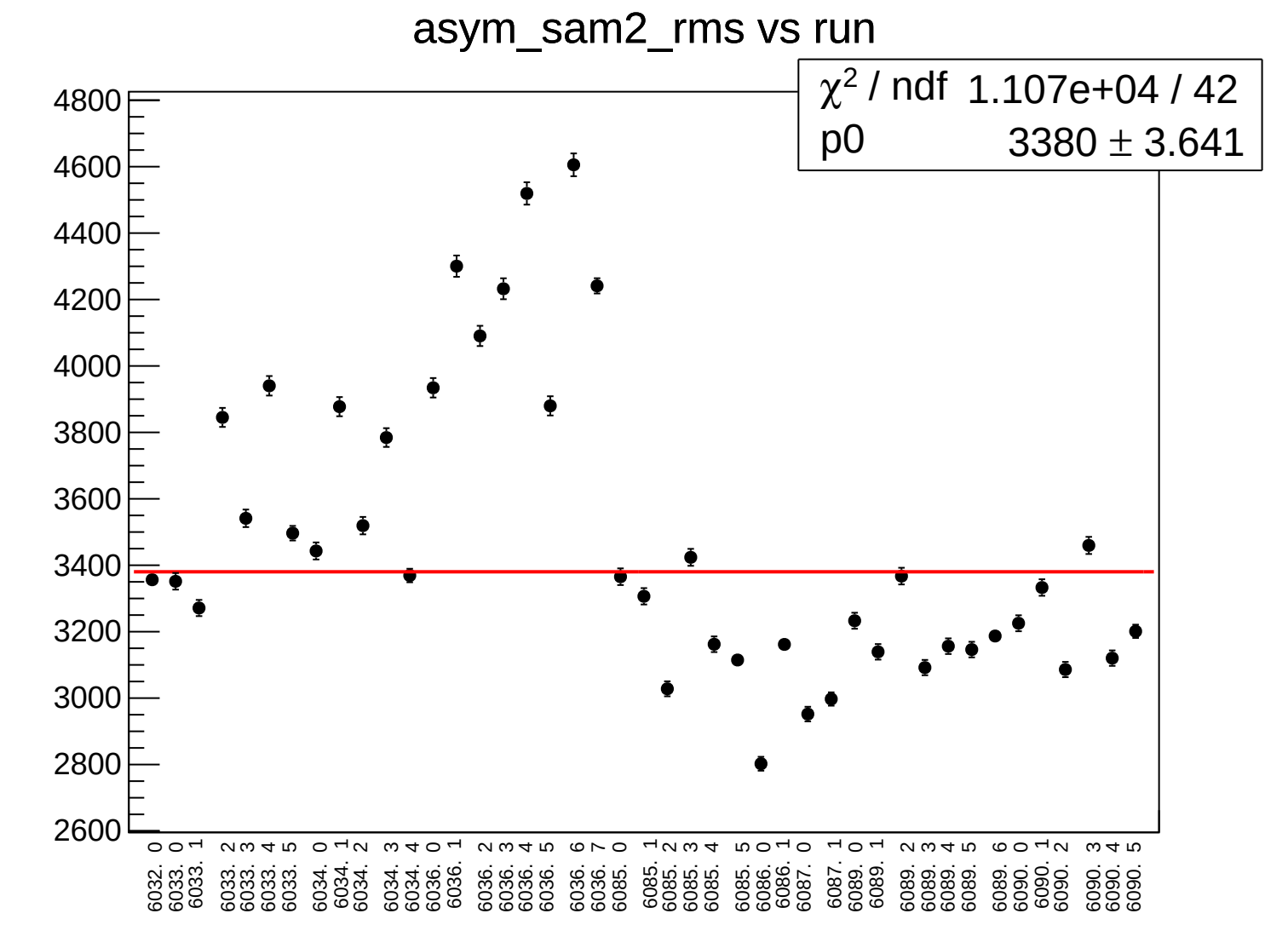

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42.49 / 42
p0 2300 ± 5181
150
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.27
Std Dev 37.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

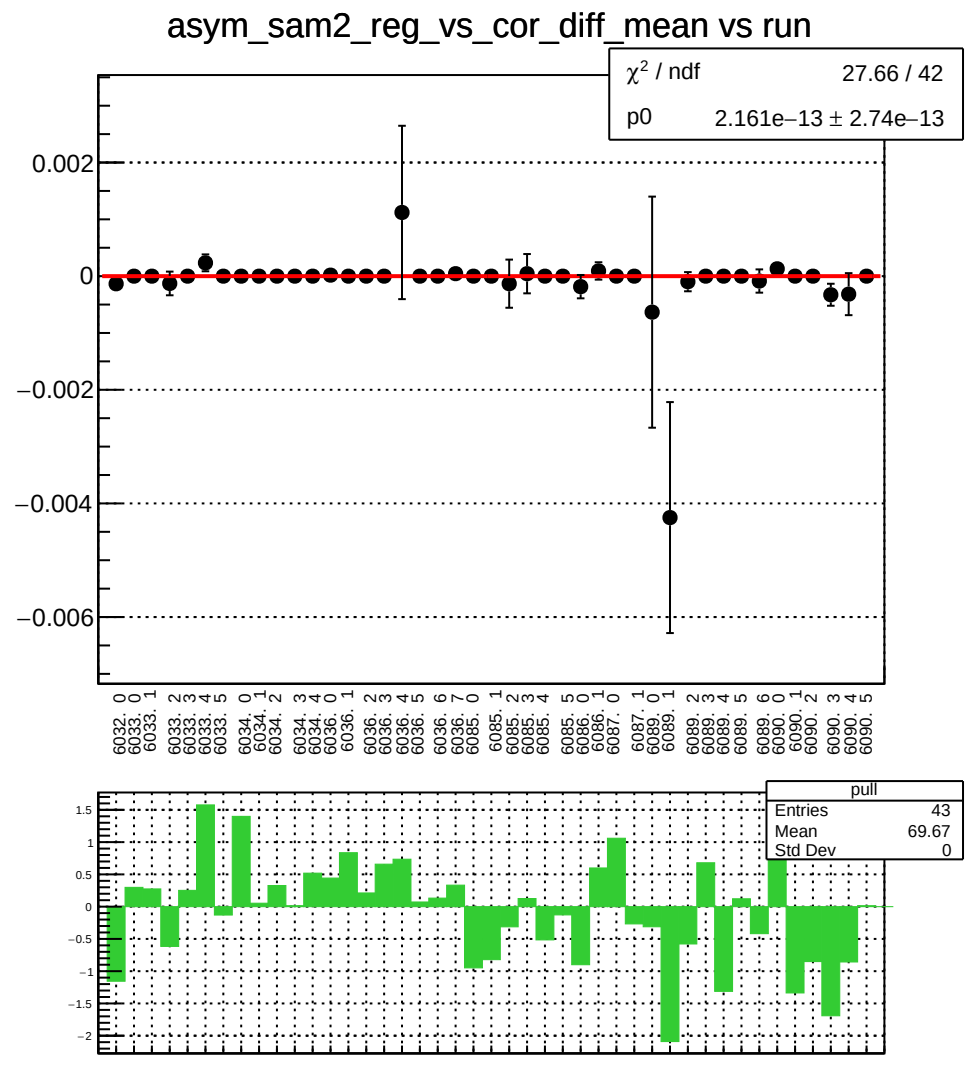

pull1D
Entries 43
Mean 0.02071
Std Dev 0.9938
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

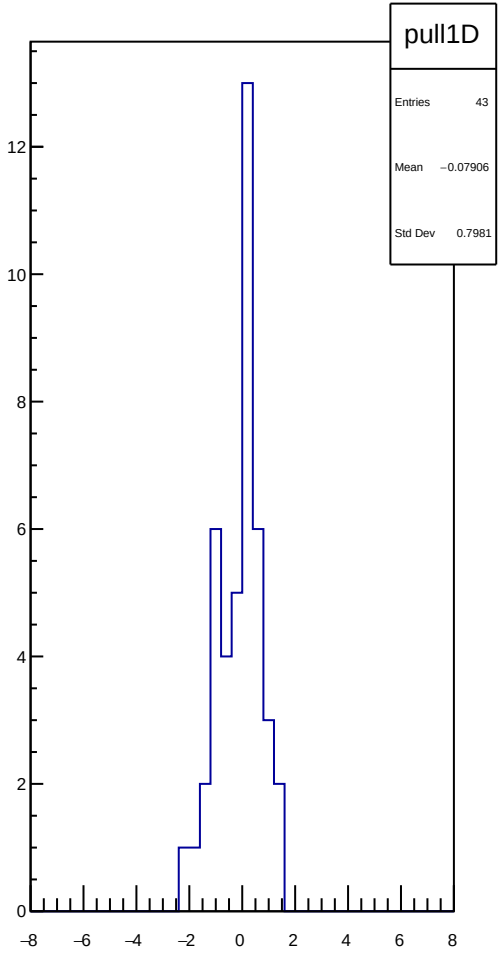

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.181e+04 / 42
p0 3400 ± 3.663
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

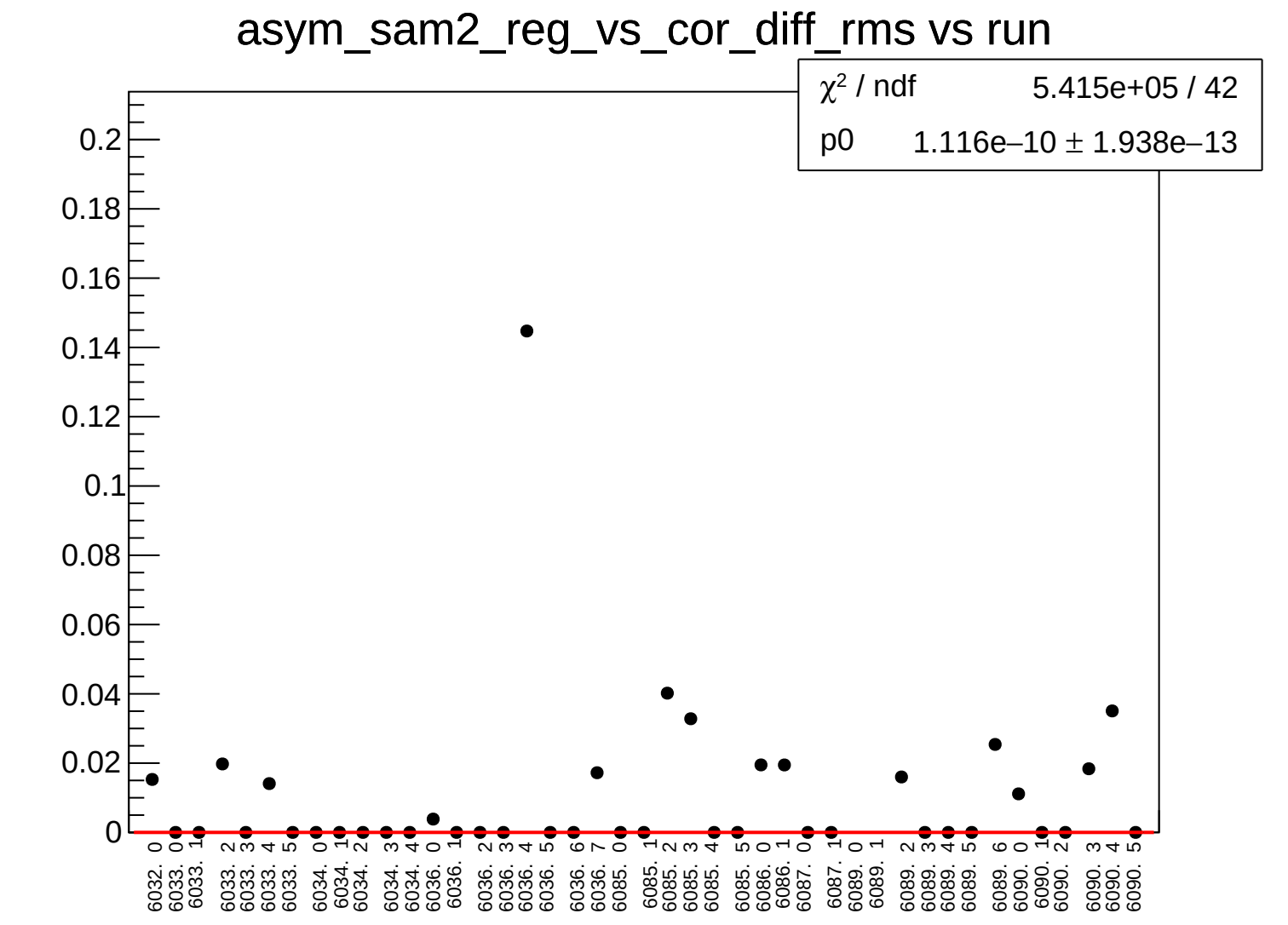

asym_sam2_mean vs run
×10^3
χ² / ndf 43.27 / 42
p0 −1926 ± 5149
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.89
Std Dev 39.26
2
1
0
−1
−2

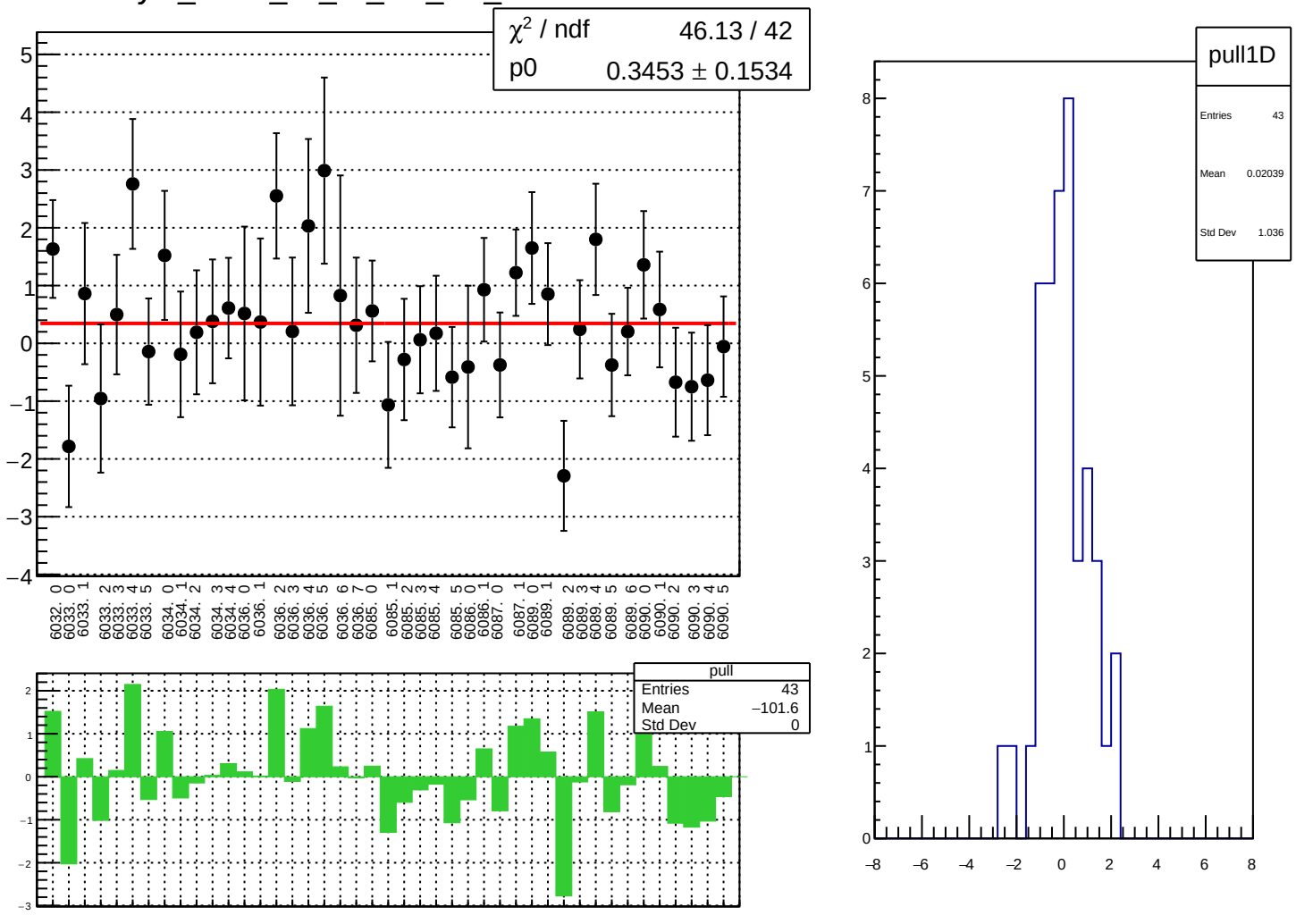

pull1D
Entries 43
Mean −0.01959
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

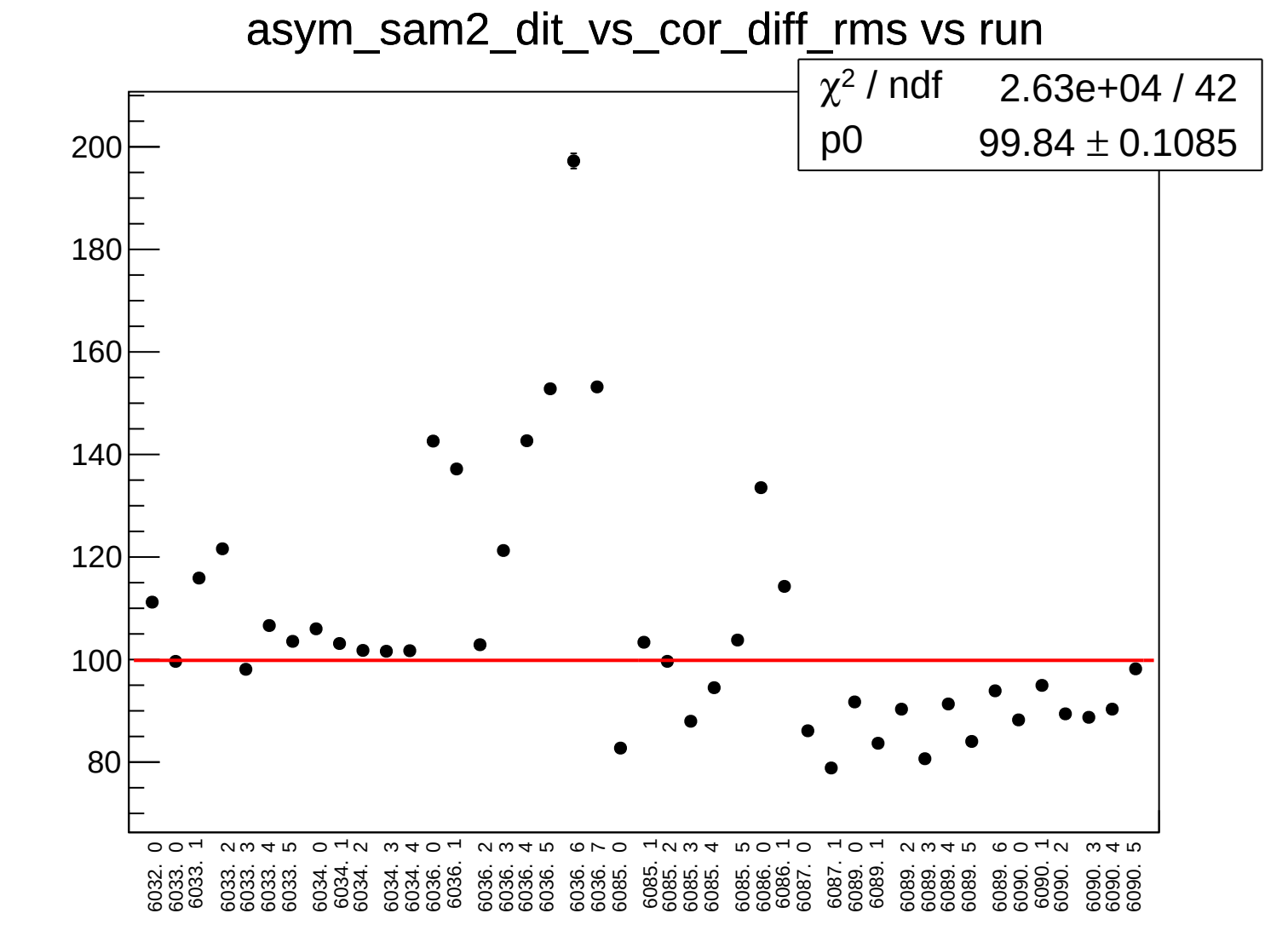

asym_sam2_rms vs run
χ² / ndf 1.107e+04 / 42
p0 3380 ± 3.641
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

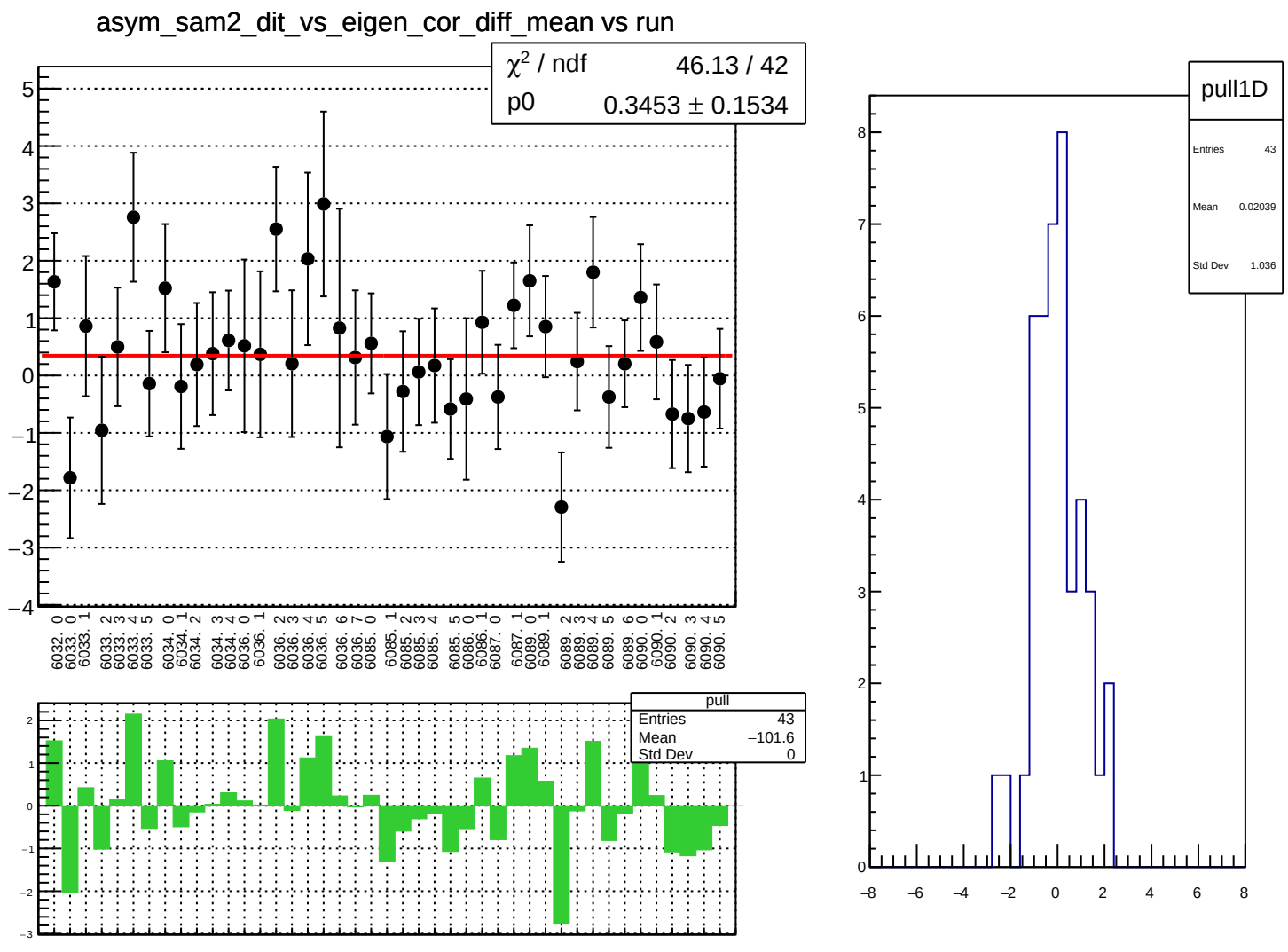

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 27.66 / 42
p0 2.161e−13 ± 2.74e−13
0.002
0
−0.002
−0.004
−0.006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 69.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

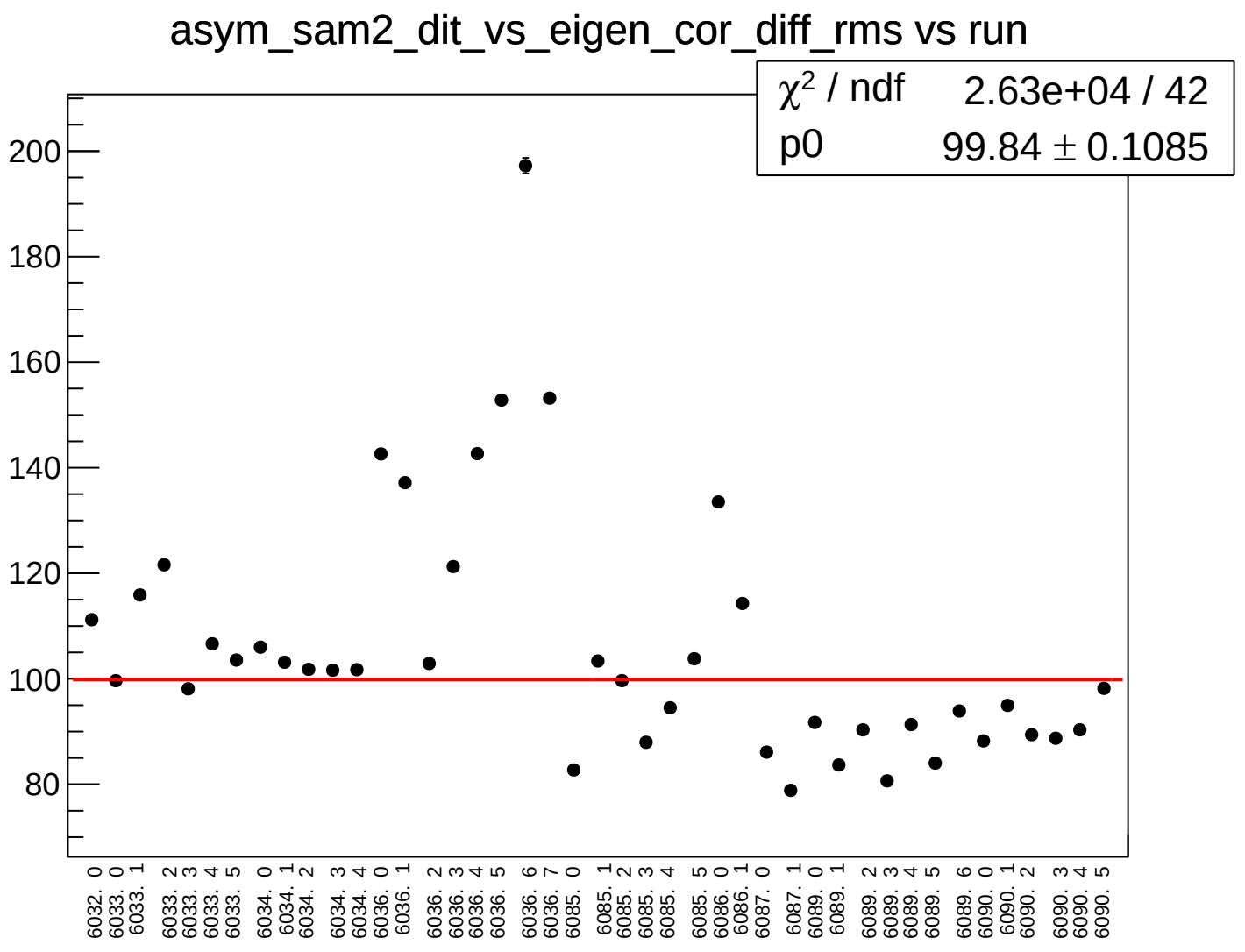

pull1D
Entries 43
Mean −0.07906
Std Dev 0.7981
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

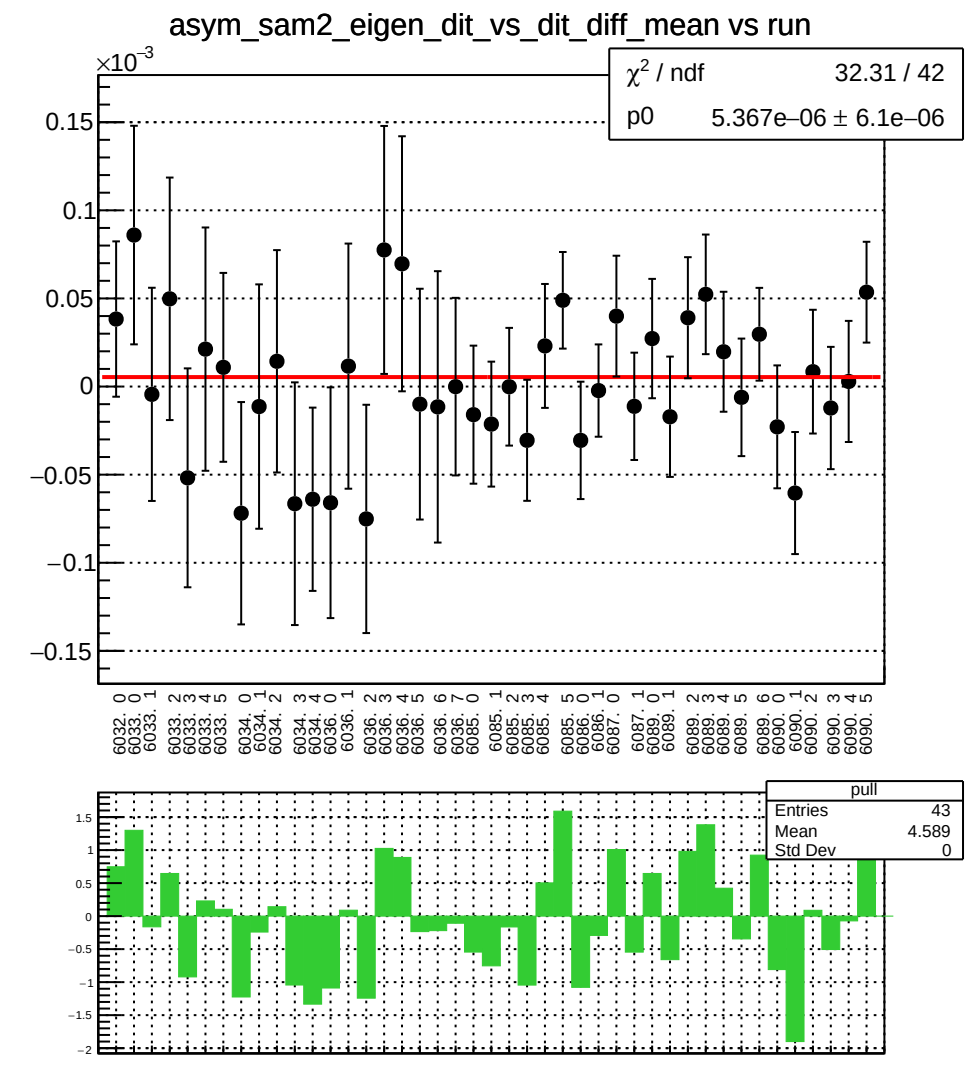

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 5.415e+05 / 42
p0 1.116e−10 ± 1.938e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

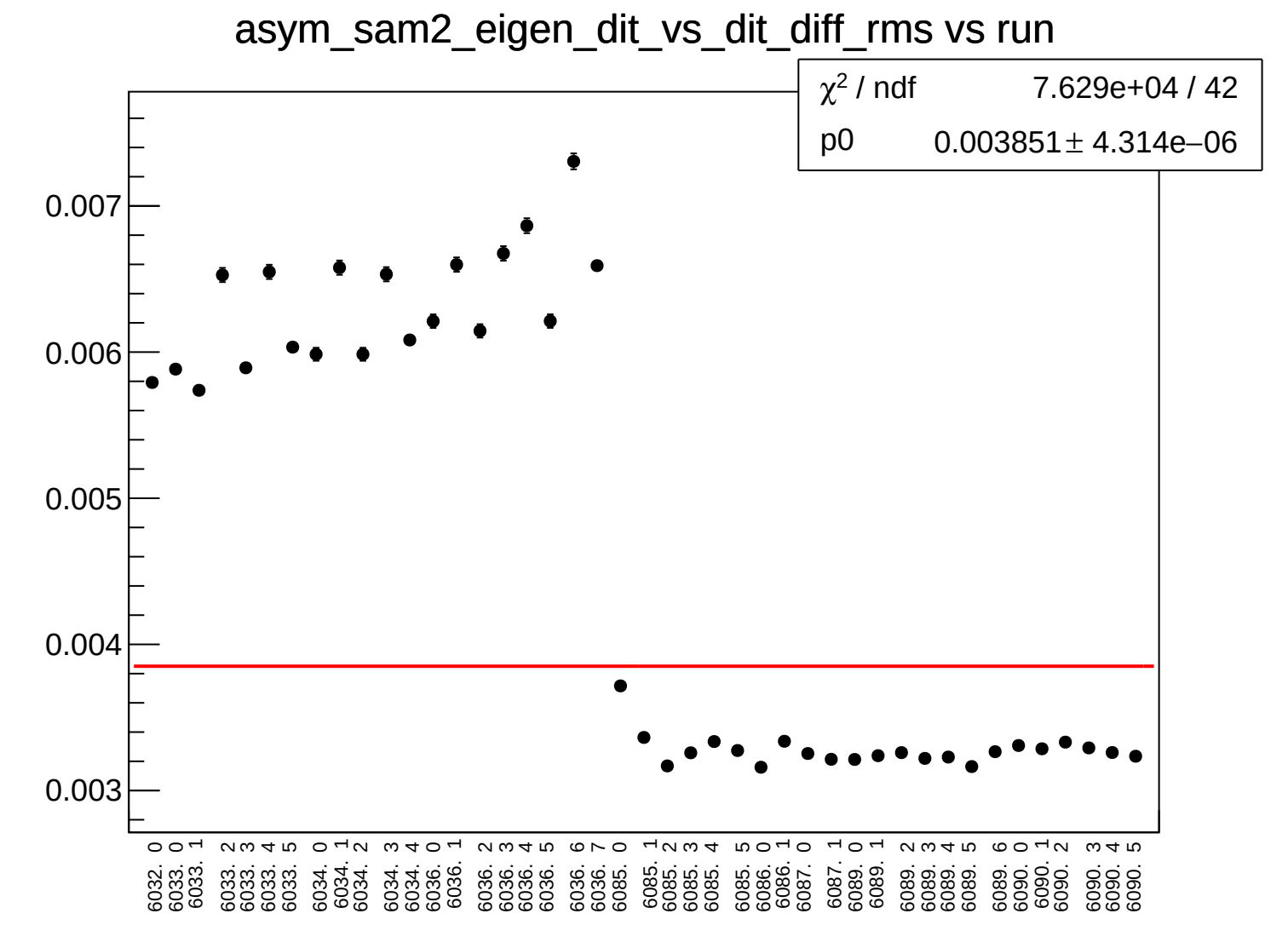

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 46.13 / 42
p0 0.3453 ± 0.1534
pull
Entries 43
Mean −101.6
Std Dev 0
pull1D
Entries 43
Mean 0.02039
Std Dev 1.036

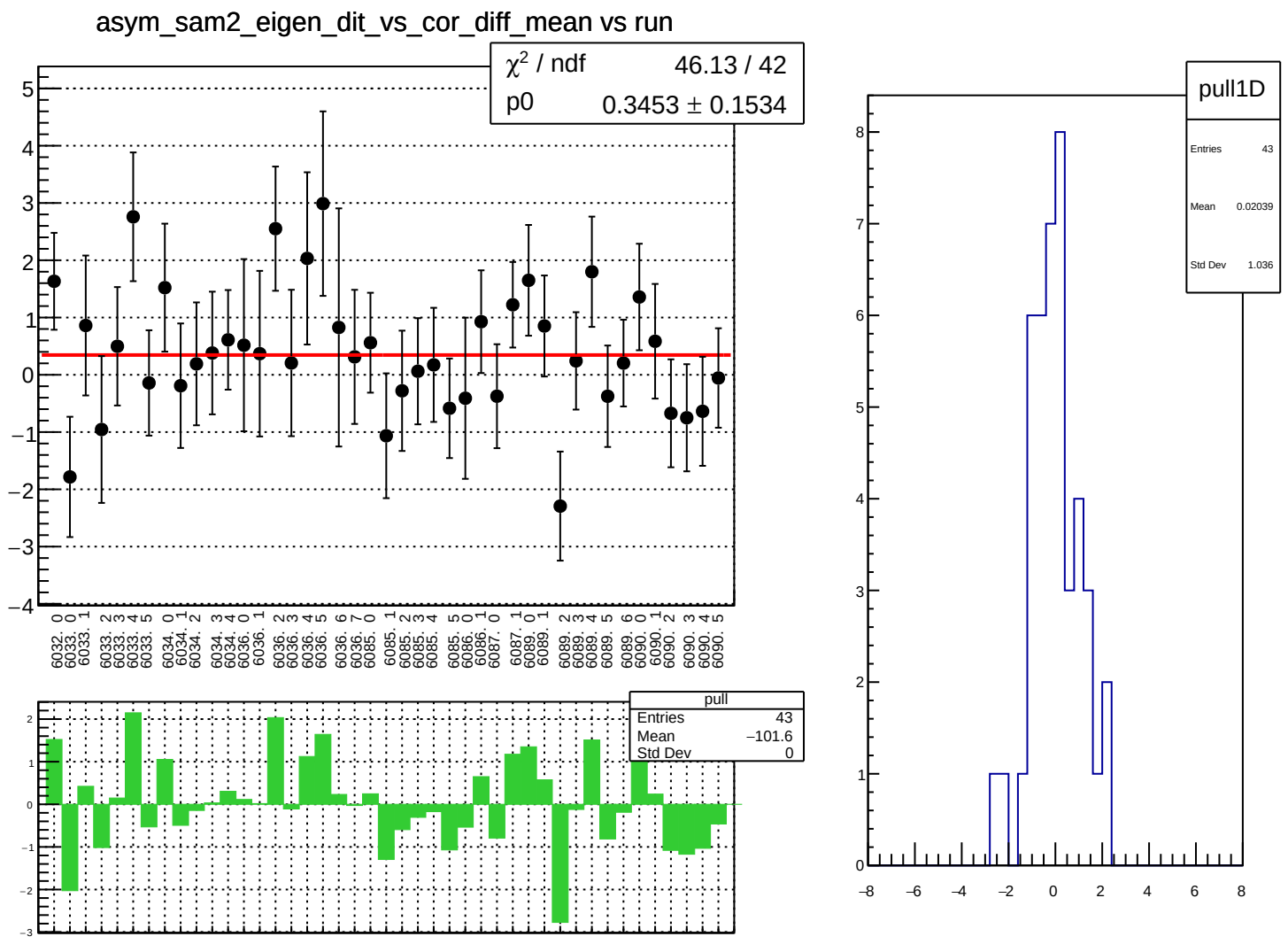

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 42
p0 99.84 ± 0.1085
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

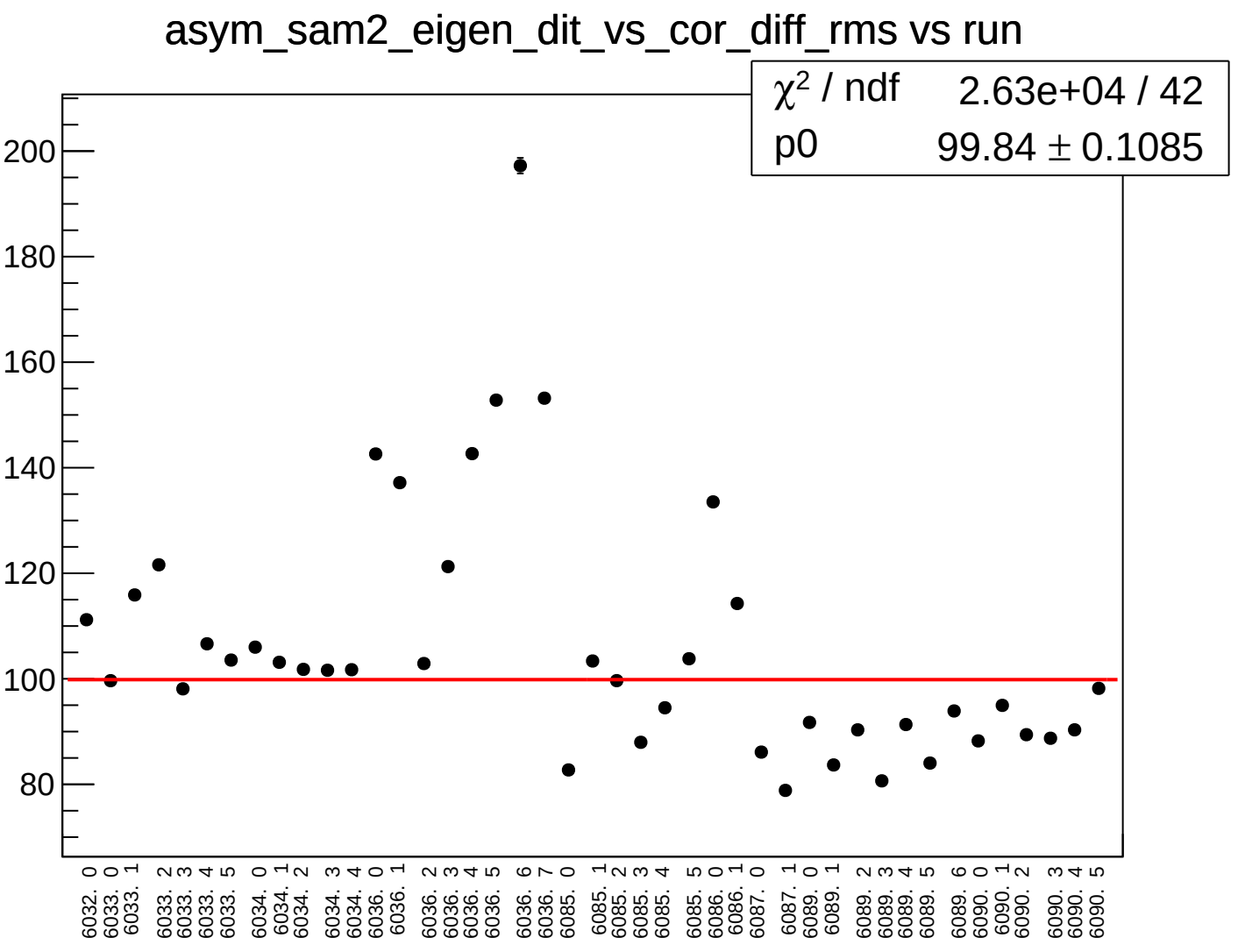

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.13 / 42
p0 0.3453 ± 0.1534
pull
Entries 43
Mean −101.6
Std Dev 0
pull1D
Entries 43
Mean 0.02039
Std Dev 1.036

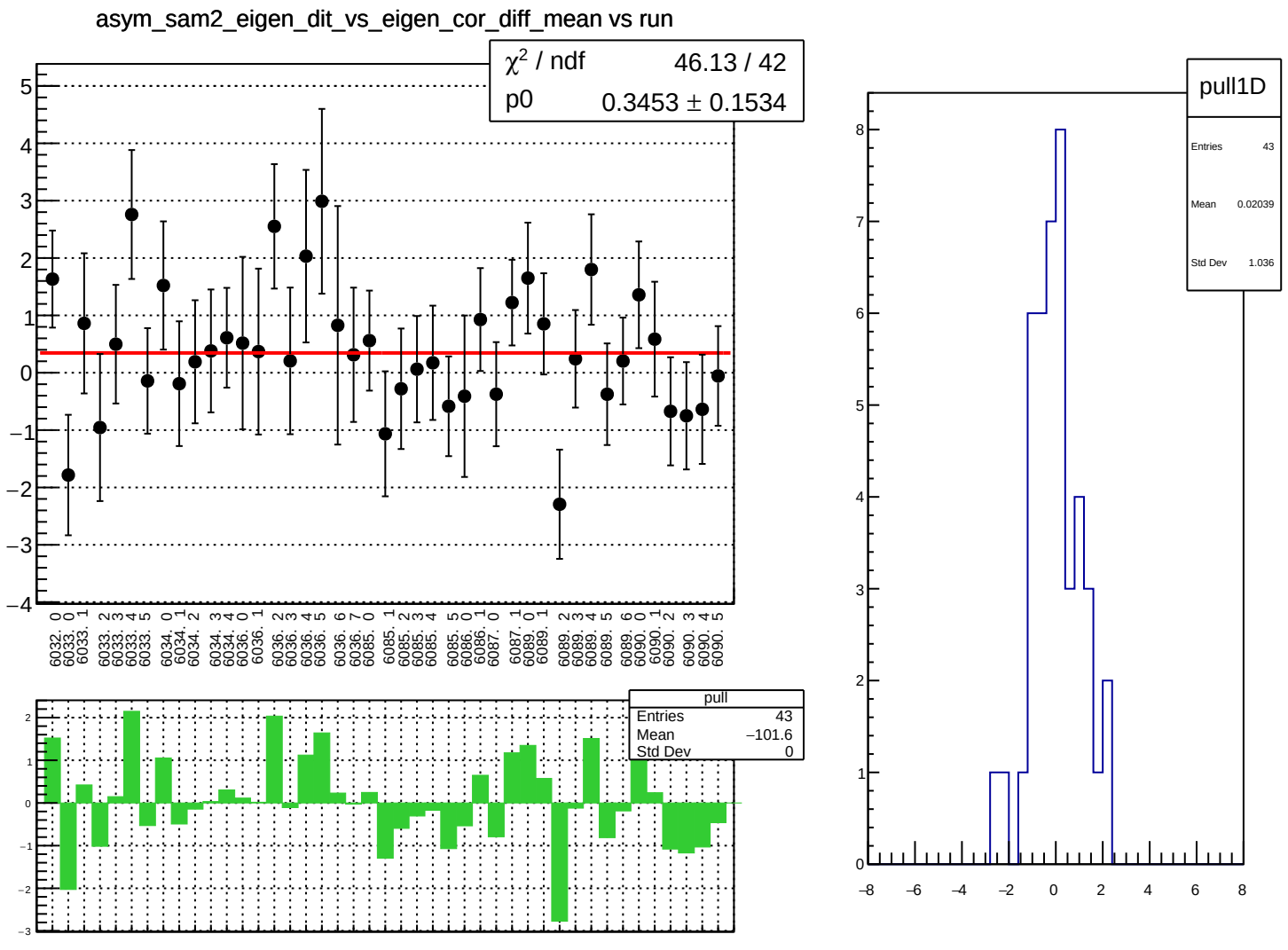

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 42
p0 99.84 ± 0.1085
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

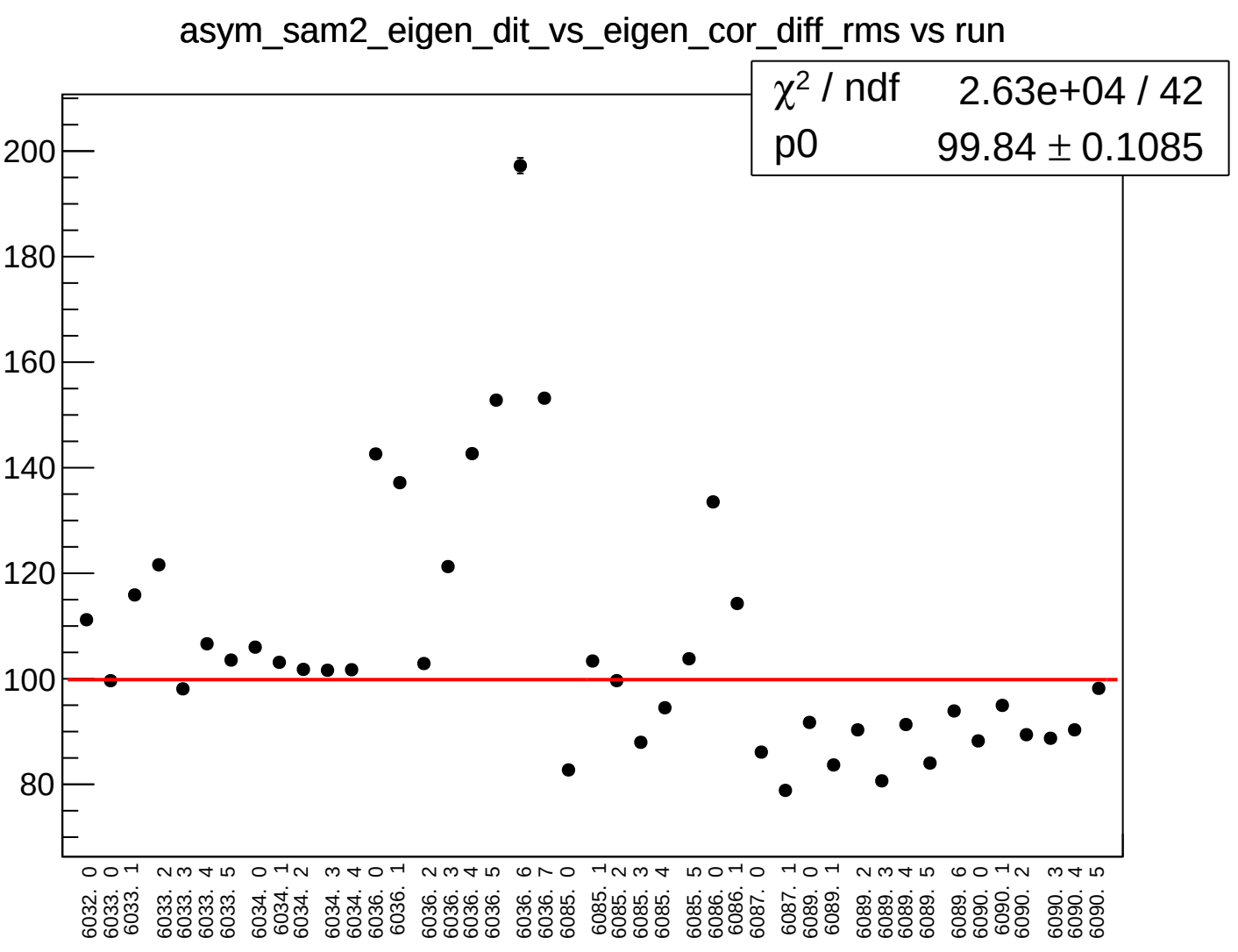

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.31 / 42
p0 5.367e–06 ± 6.1e–06
0.15
0.1
0.05
0
–0.05
–0.1
–0.15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.589
Std Dev 0
1.5
1
0.5
0
–0.5
–1
–1.5
–2
pull1D
Entries 43
Mean –0.04957
Std Dev 0.8654
9
8
7
6
5
4
3
2
1
0
–8
–6
–4
–2
0
2
4
6
8

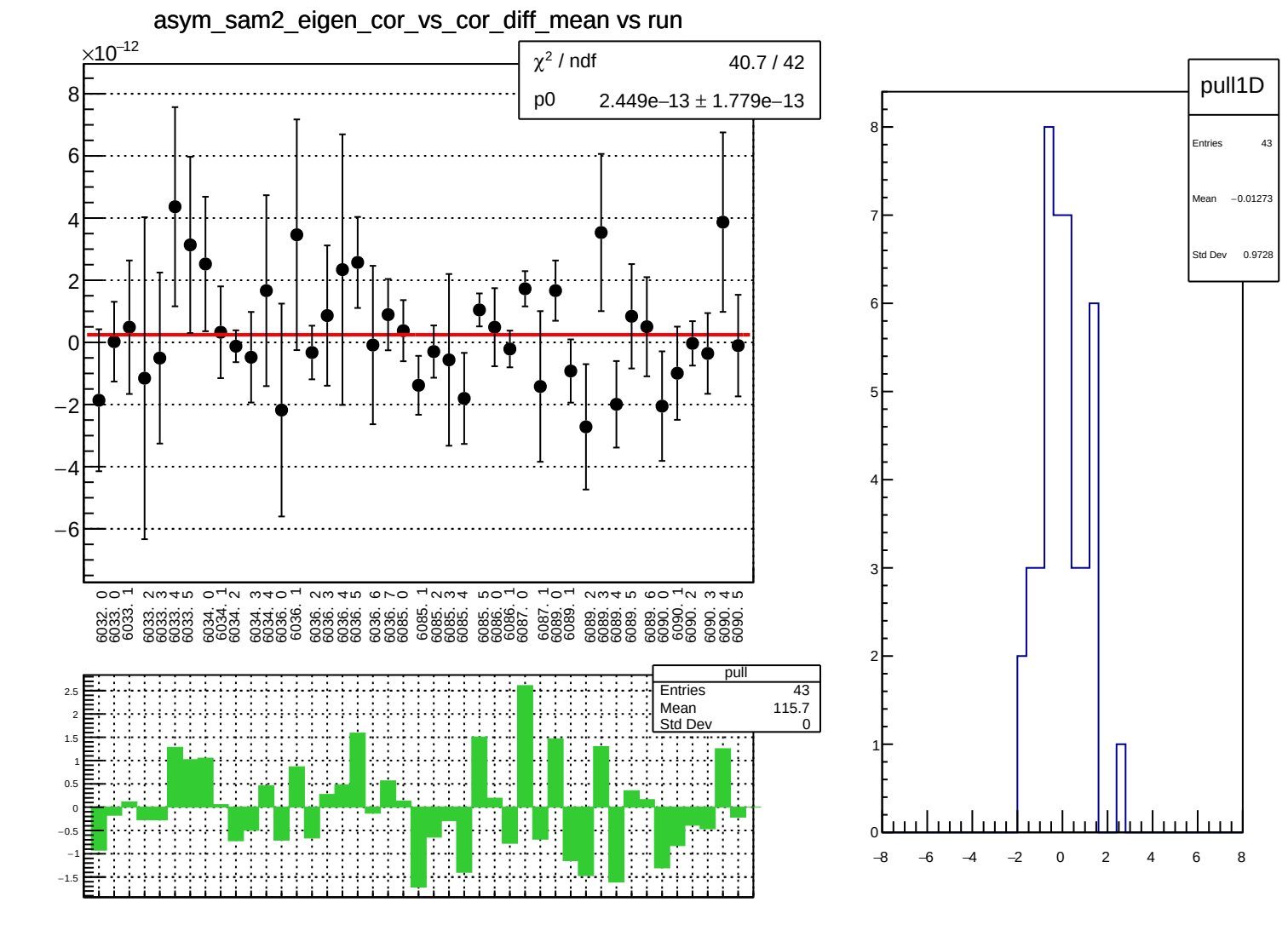

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.629e+04 / 42
p0 0.003851 ± 4.314e−06
0.007
0.006
0.005
0.004
0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

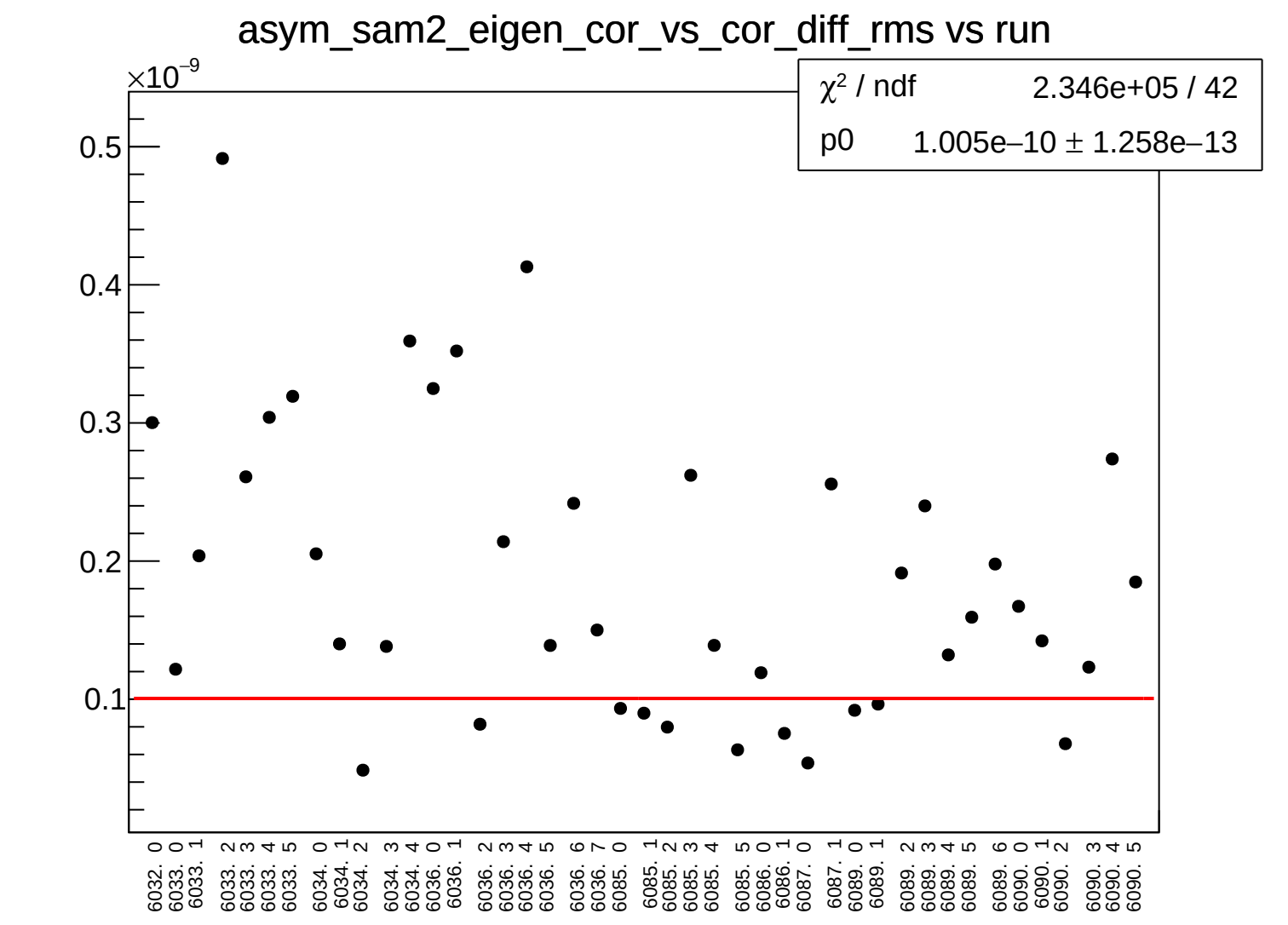

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.13 / 42
p0 0.3453 ± 0.1534
pull
Entries 43
Mean −101.6
Std Dev 0
pull1D
Entries 43
Mean 0.02039
Std Dev 1.036

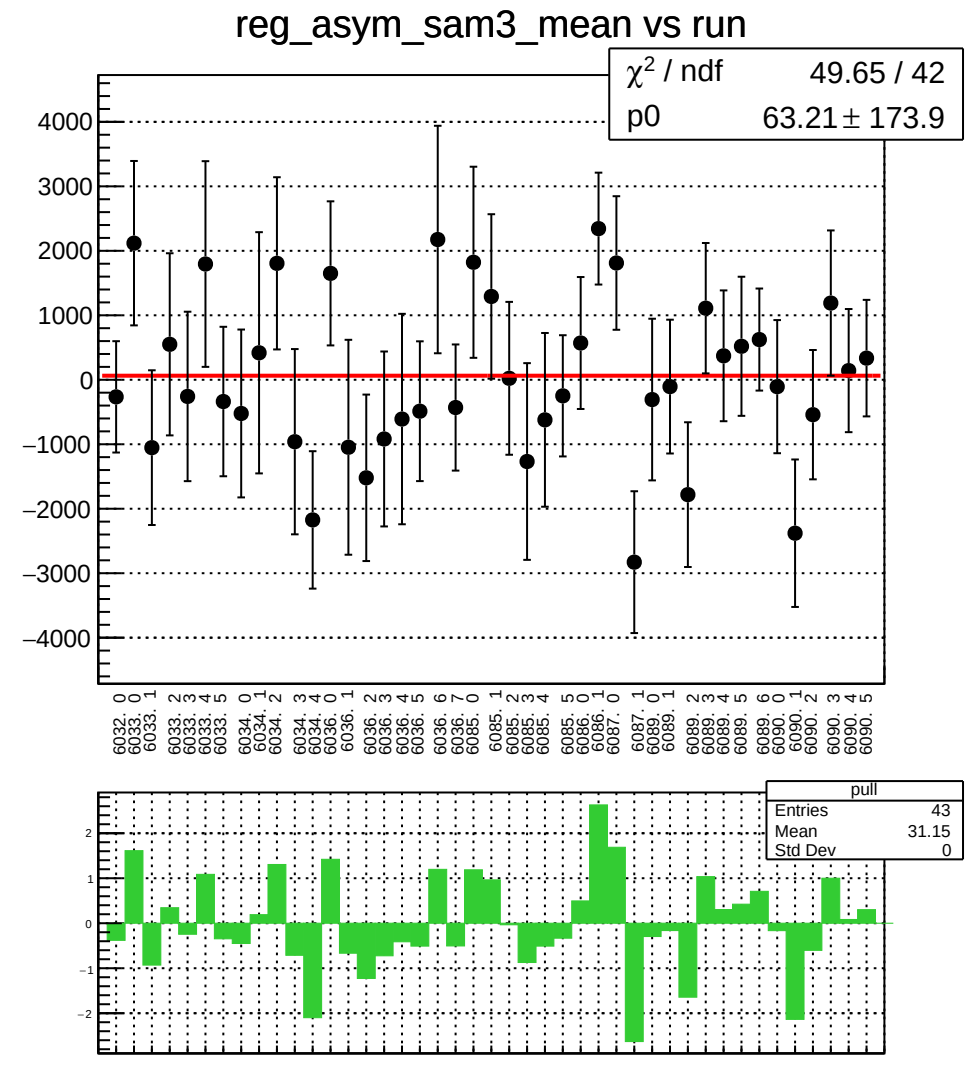

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 42
p0 99.84 ± 0.1085
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

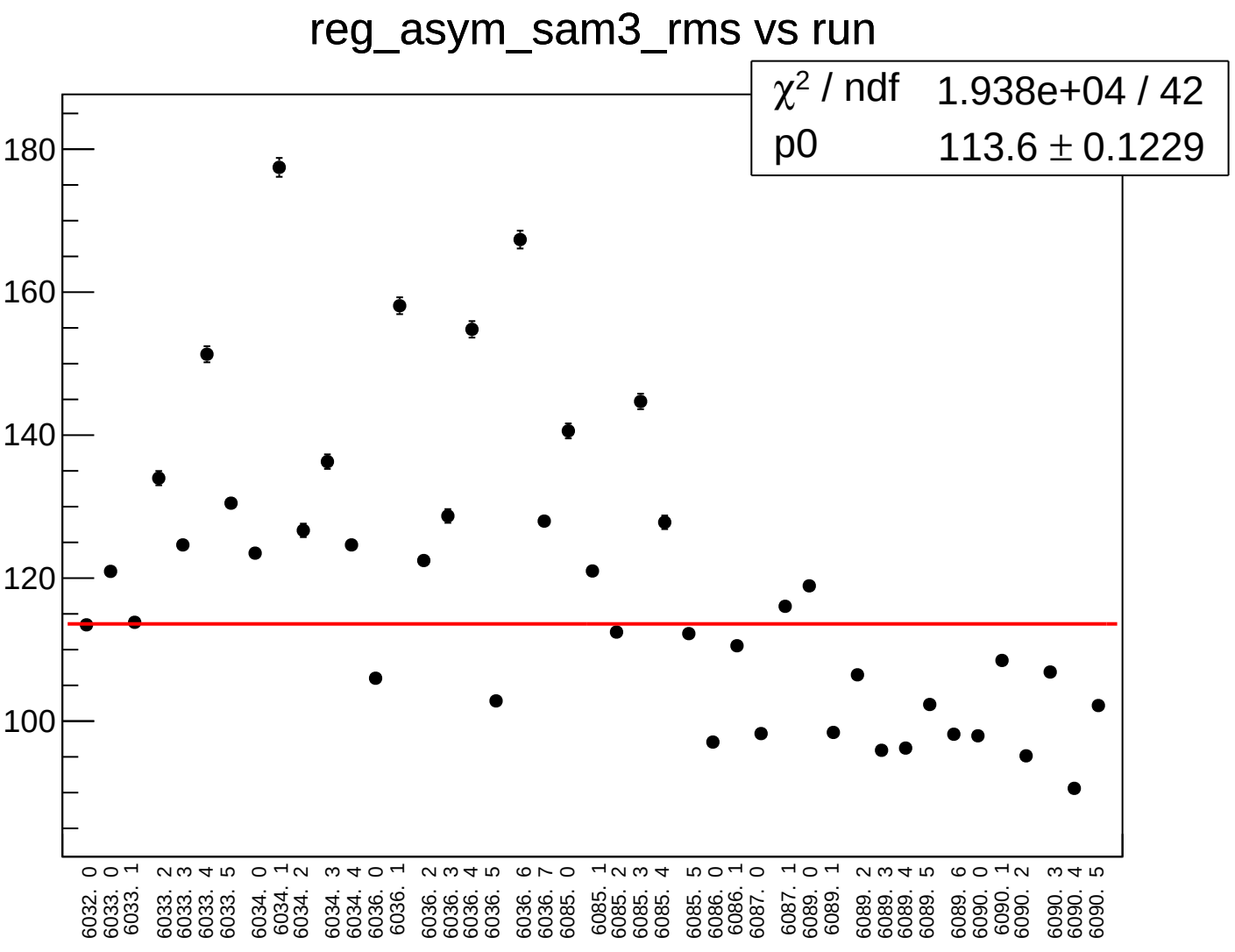

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.13 / 42
p0 0.3453 ± 0.1534
pull
Entries 43
Mean −101.6
Std Dev 0
pull1D
Entries 43
Mean 0.02039
Std Dev 1.036

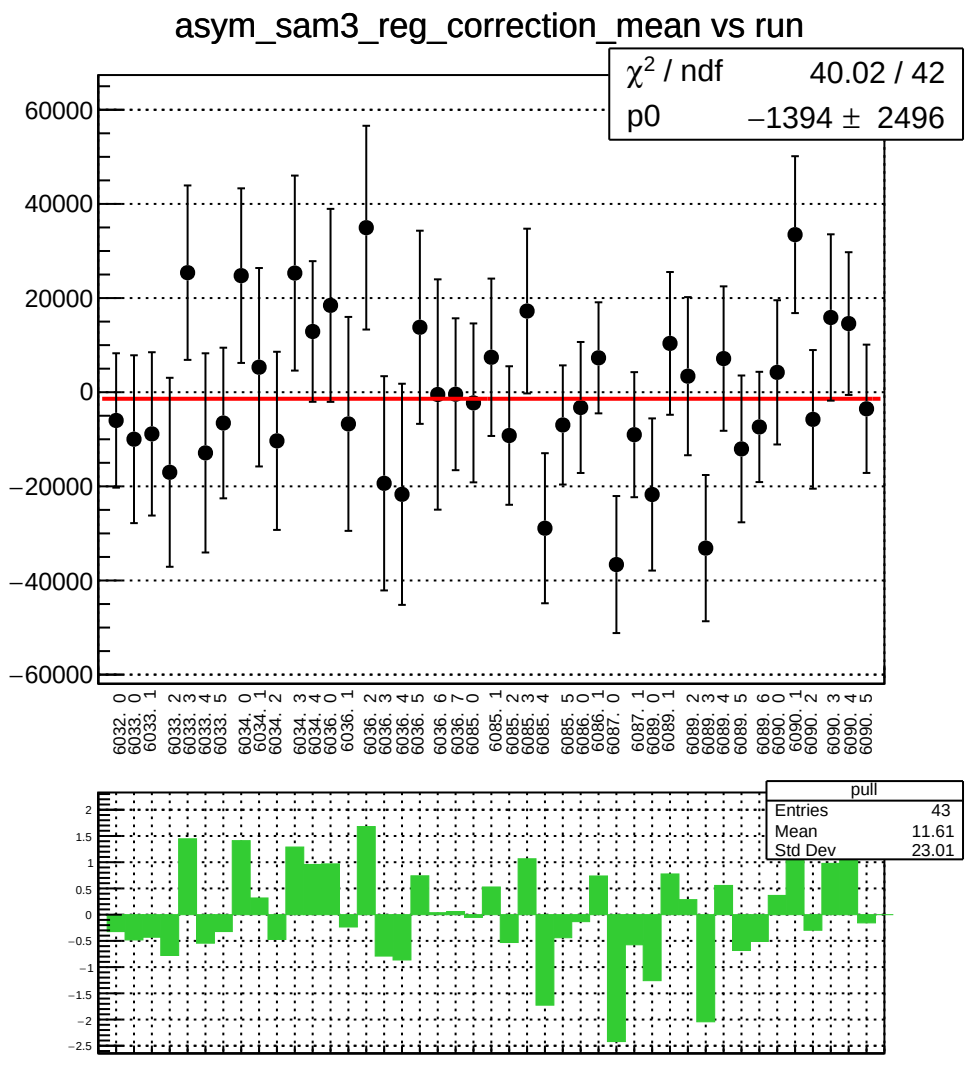

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 42
p0 99.84 ± 0.1085
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

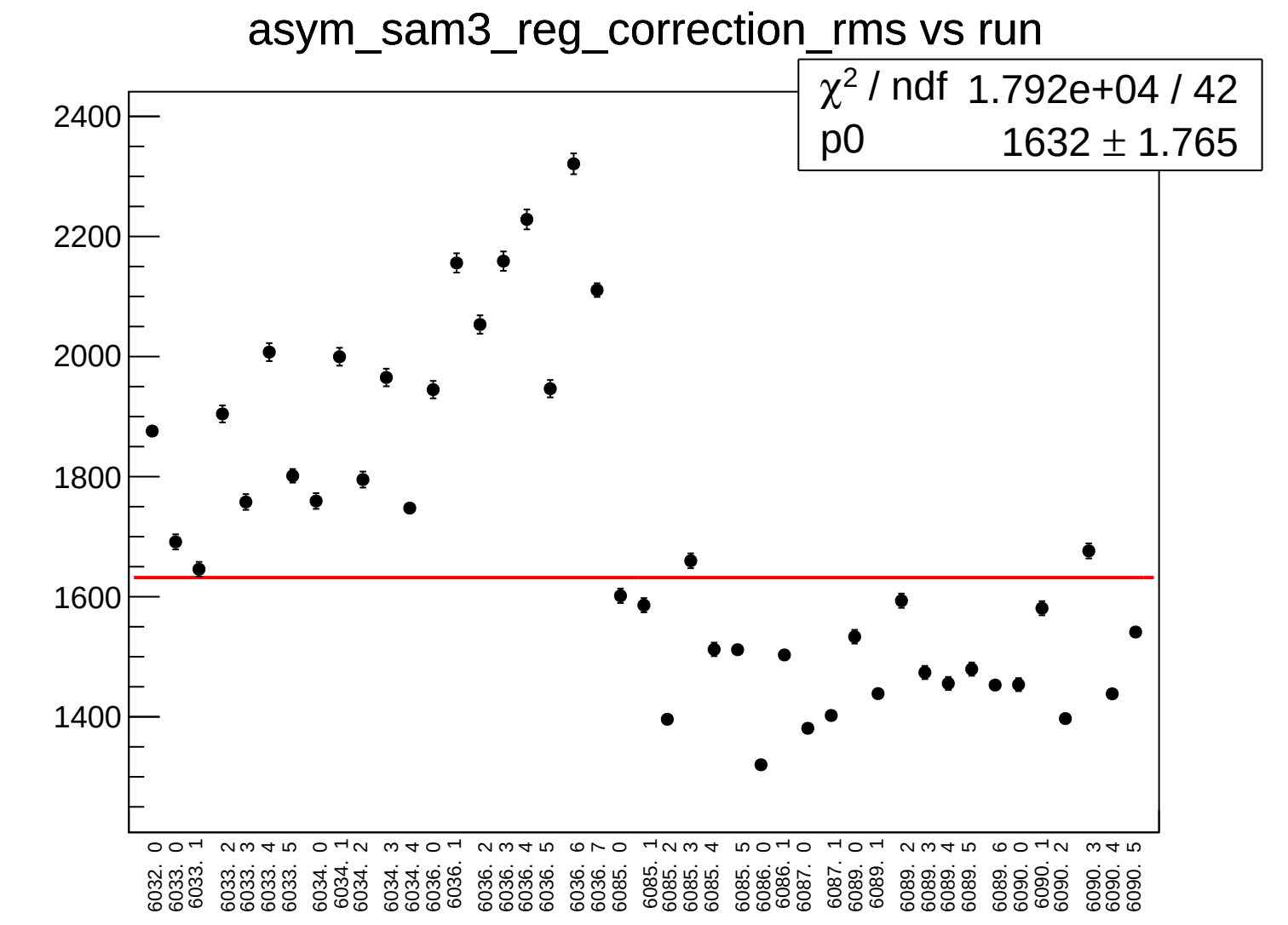

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.7 / 42
p0 2.449e−13 ± 1.779e−13
8
6
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 115.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01273
Std Dev 0.9728
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

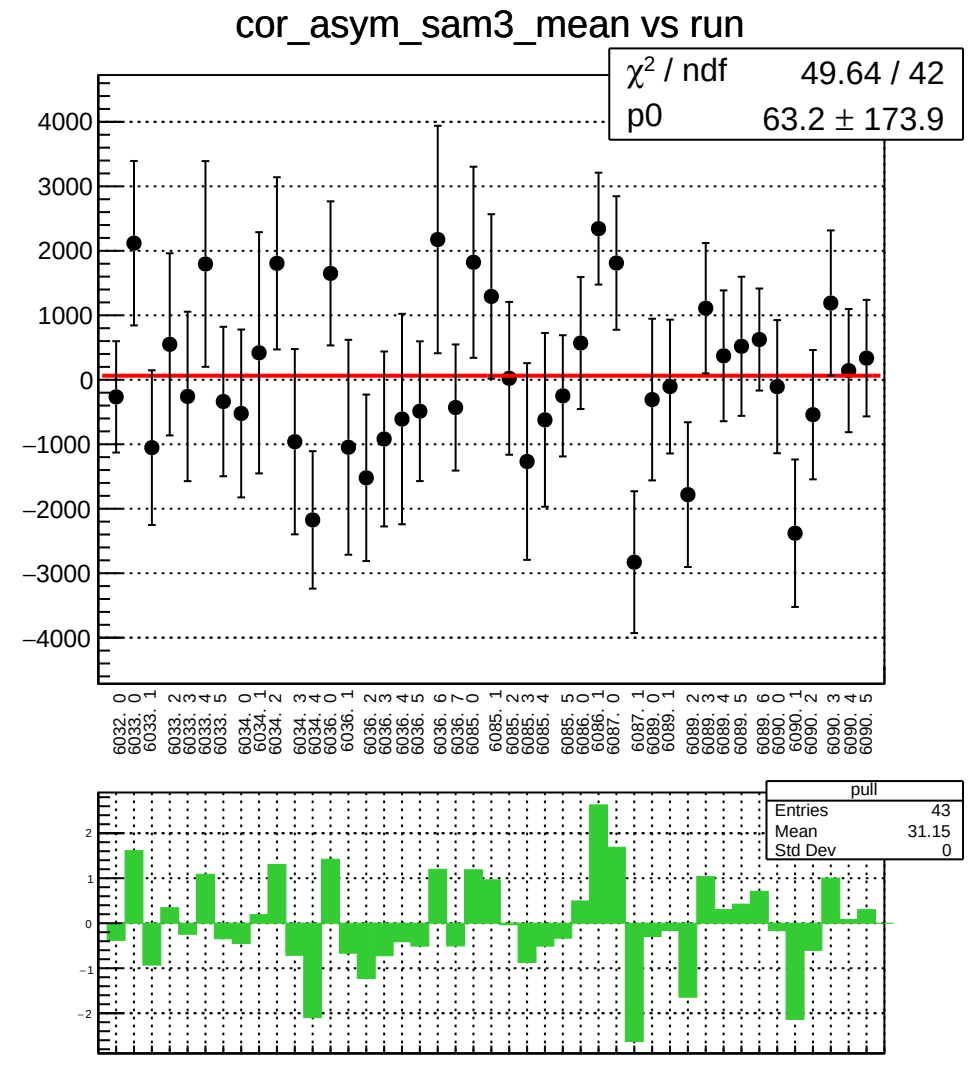

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.346e+05 / 42
p0 1.005e−10 ± 1.258e−13
0.5
0.4
0.3
0.2
0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

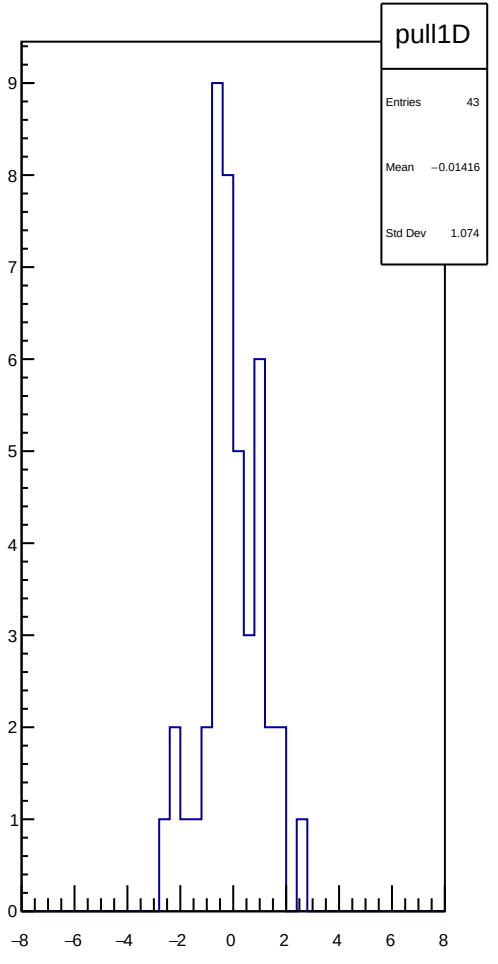

reg_asym_sam3_mean vs run
χ² / ndf 49.65 / 42
p0 63.21 ± 173.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01417
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

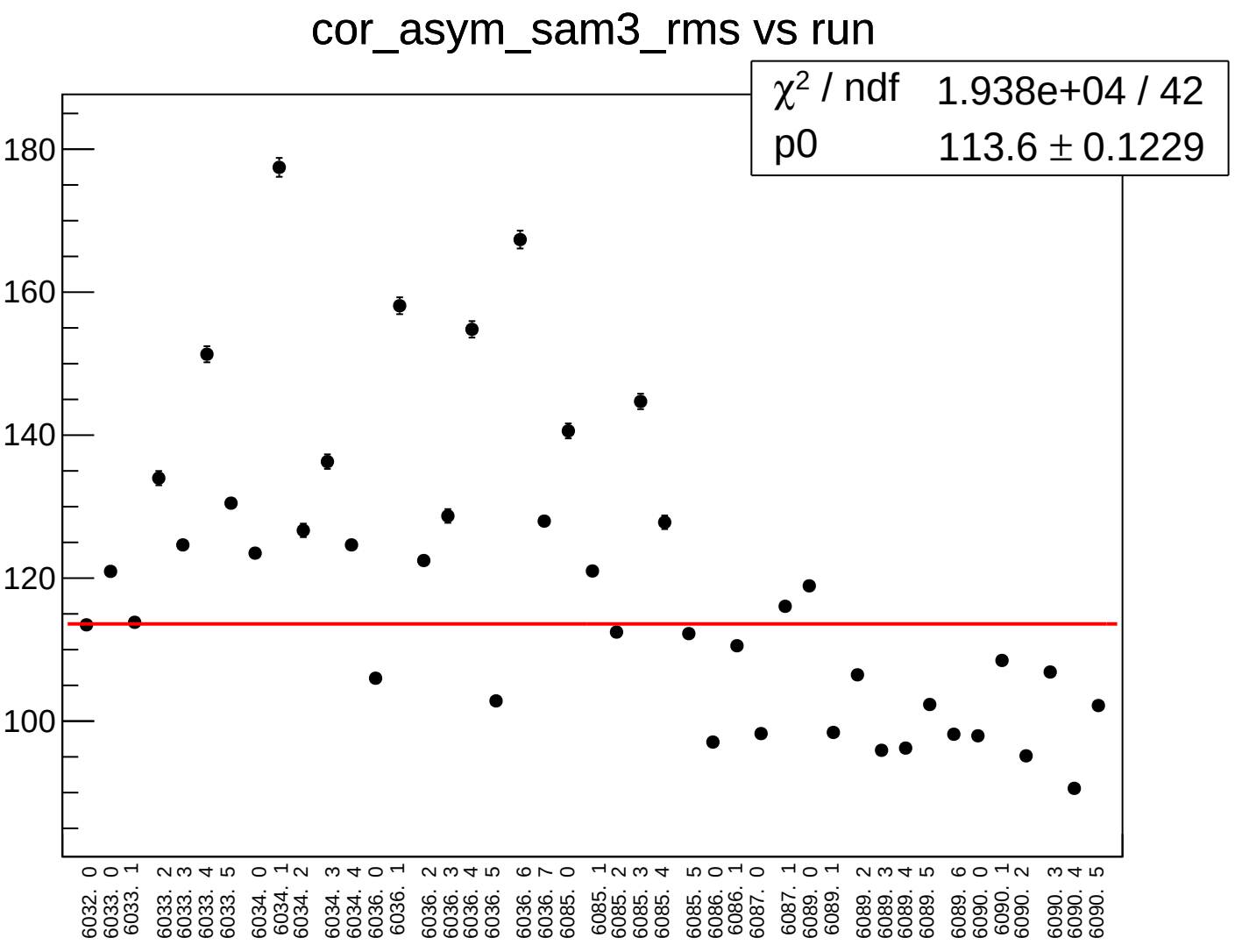

reg_asym_sam3_rms vs run
χ² / ndf 1.938e+04 / 42
p0 113.6 ± 0.1229
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

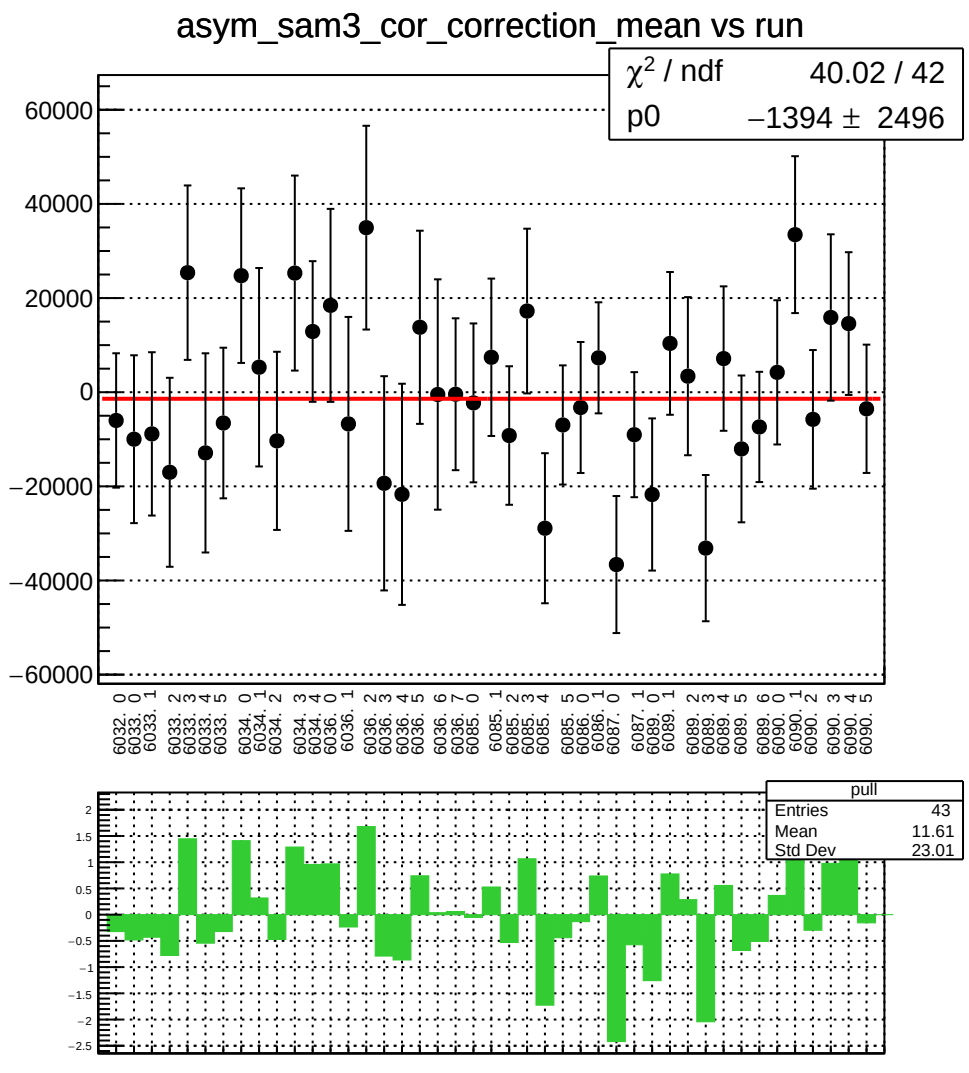

asym_sam3_reg_correction_mean vs run
χ² / ndf 40.02 / 42
p0 −1394 ± 2496
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.61
Std Dev 23.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02981
Std Dev 0.9643
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

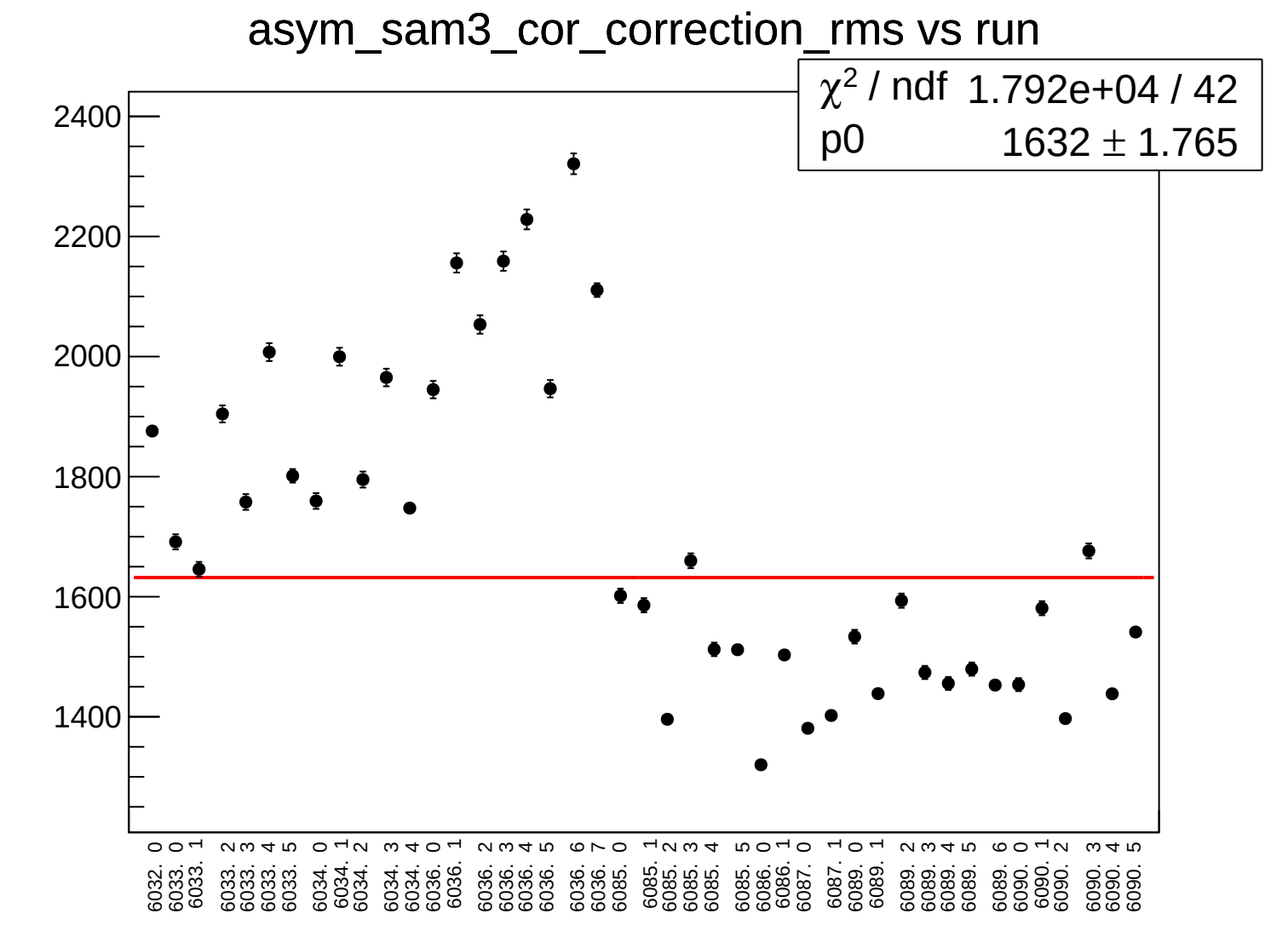

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.792e+04 / 42
p0 1632 ± 1.765
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

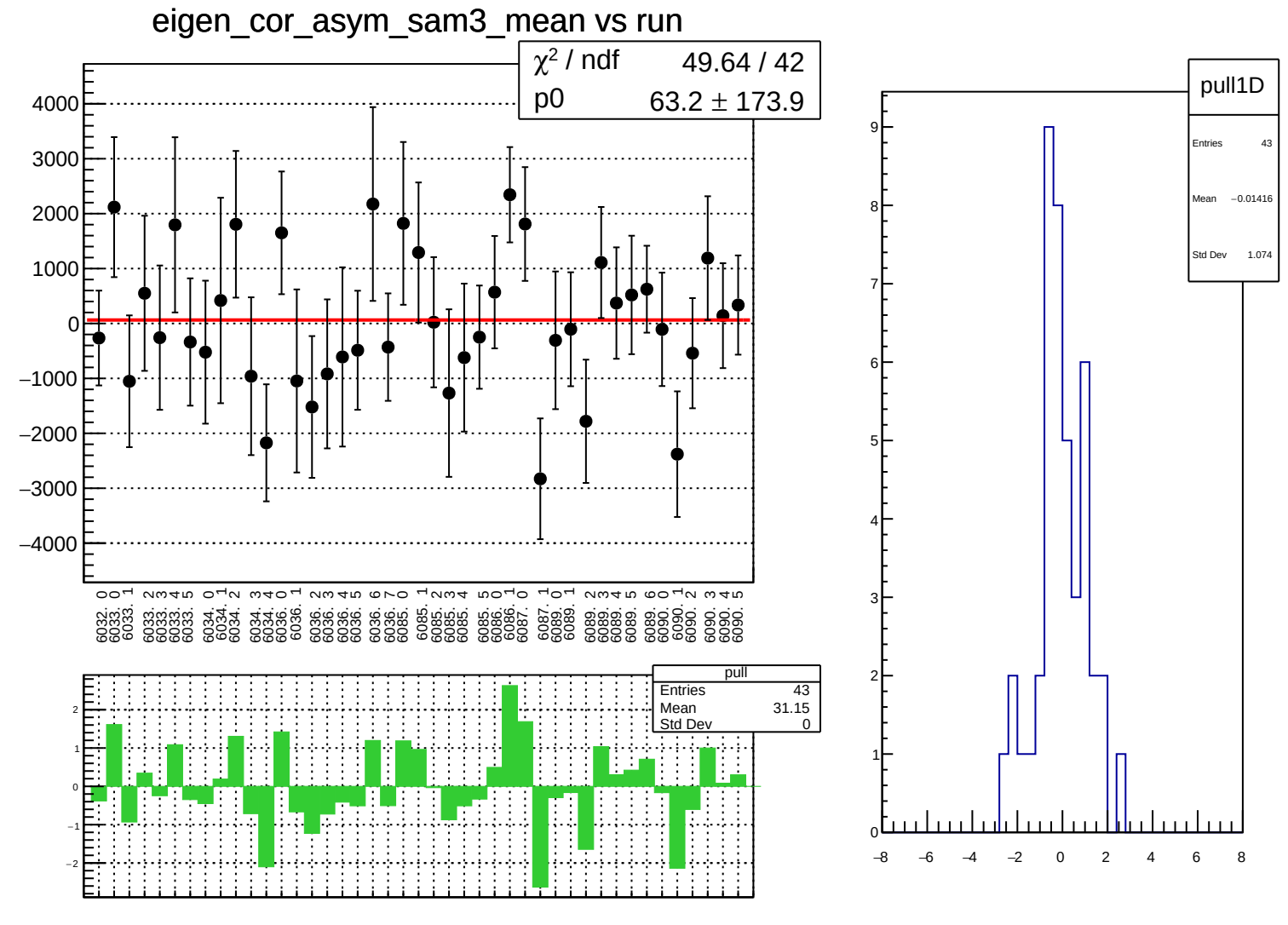

cor_asym_sam3_mean vs run
χ² / ndf 49.64 / 42
p0 63.2 ± 173.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 31.15
Std Dev 0
2
1
0
−1
−2

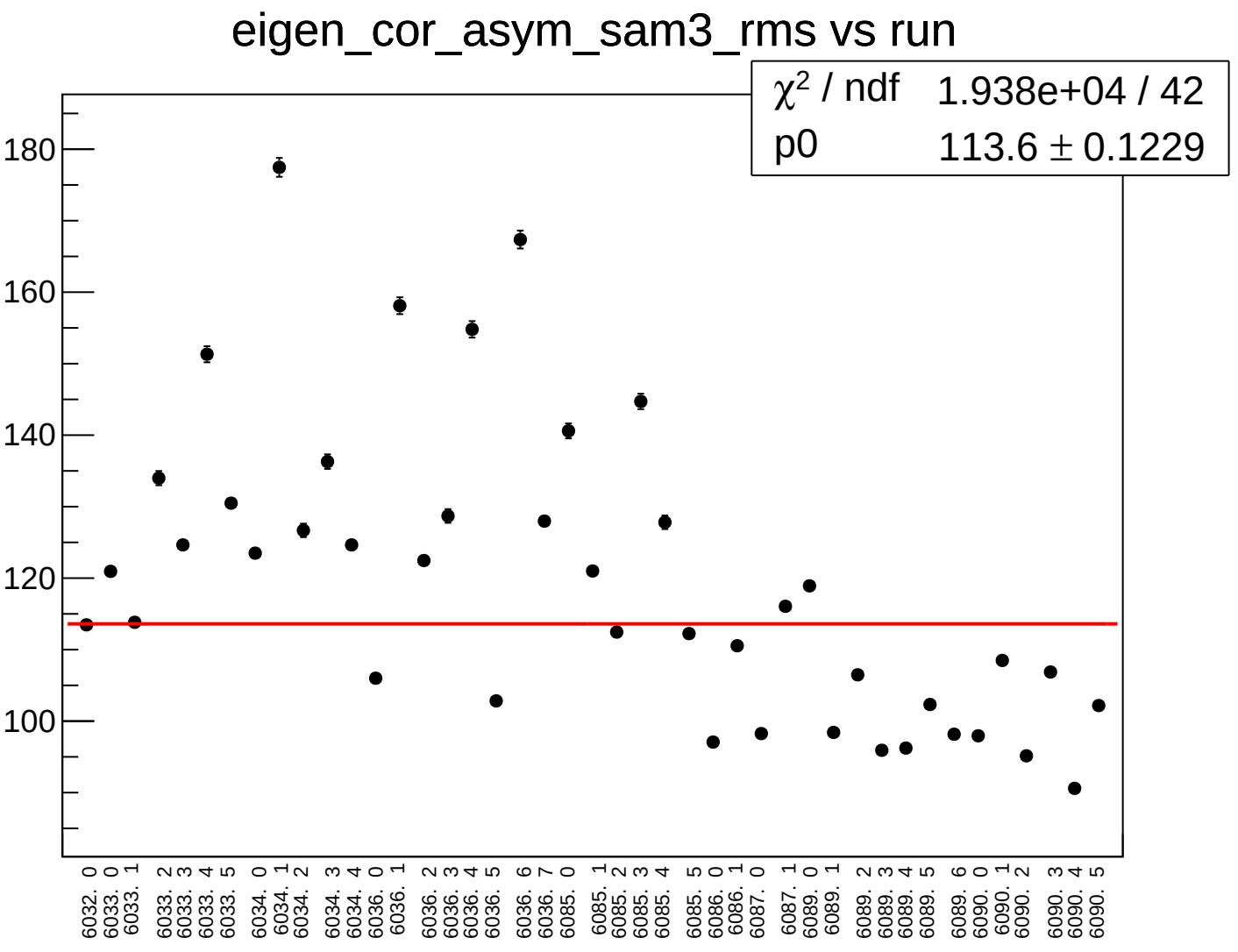

pull1D
Entries 43
Mean −0.01416
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

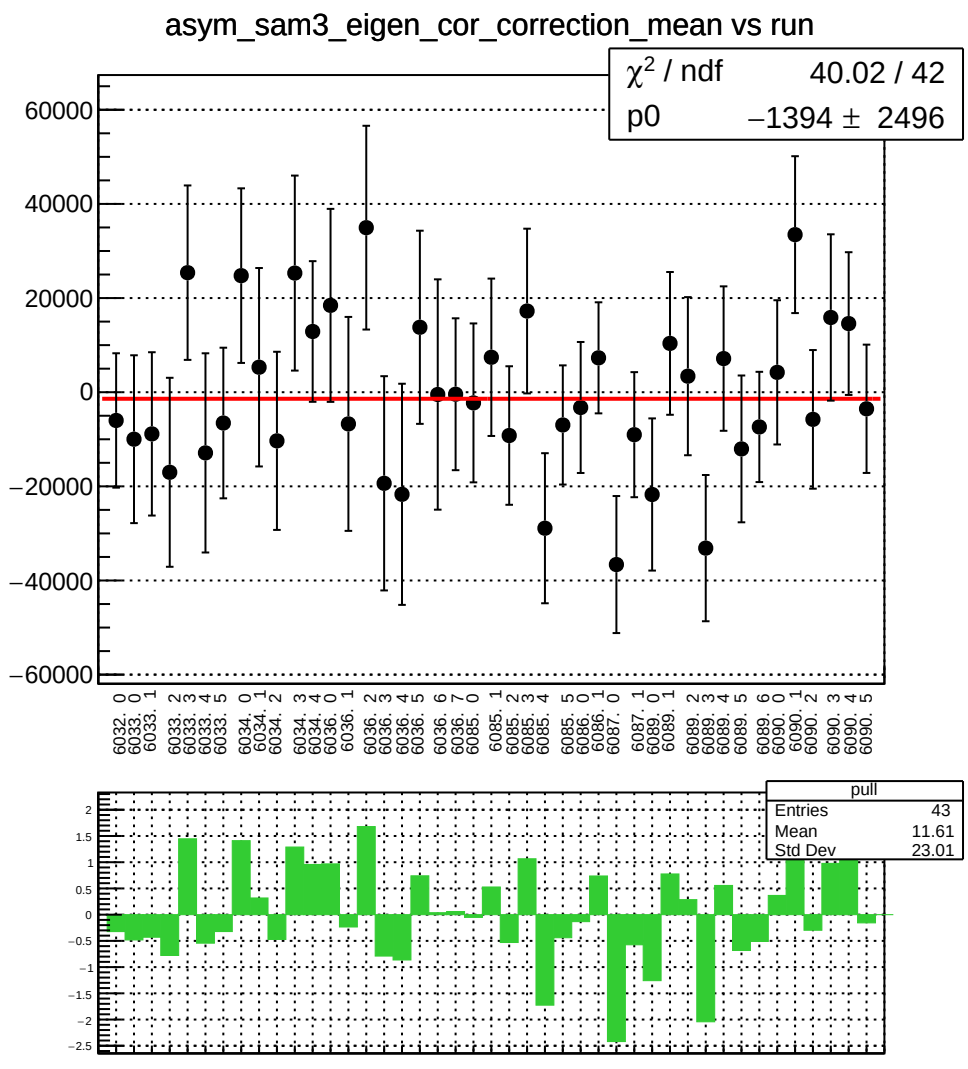

cor_asym_sam3_rms vs run
χ² / ndf 1.938e+04 / 42
p0 113.6 ± 0.1229
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

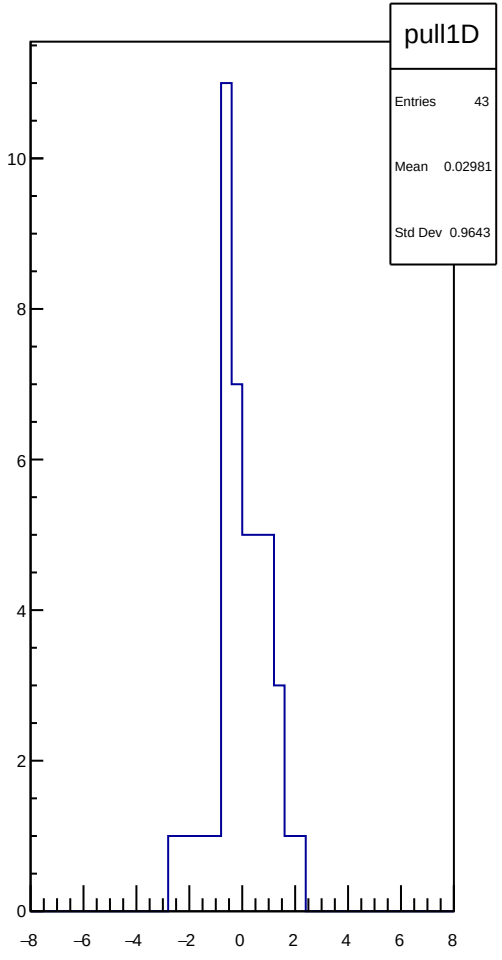

asym_sam3_cor_correction_mean vs run
χ² / ndf 40.02 / 42
p0 −1394 ± 2496
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.61
Std Dev 23.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02981
Std Dev 0.9643
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

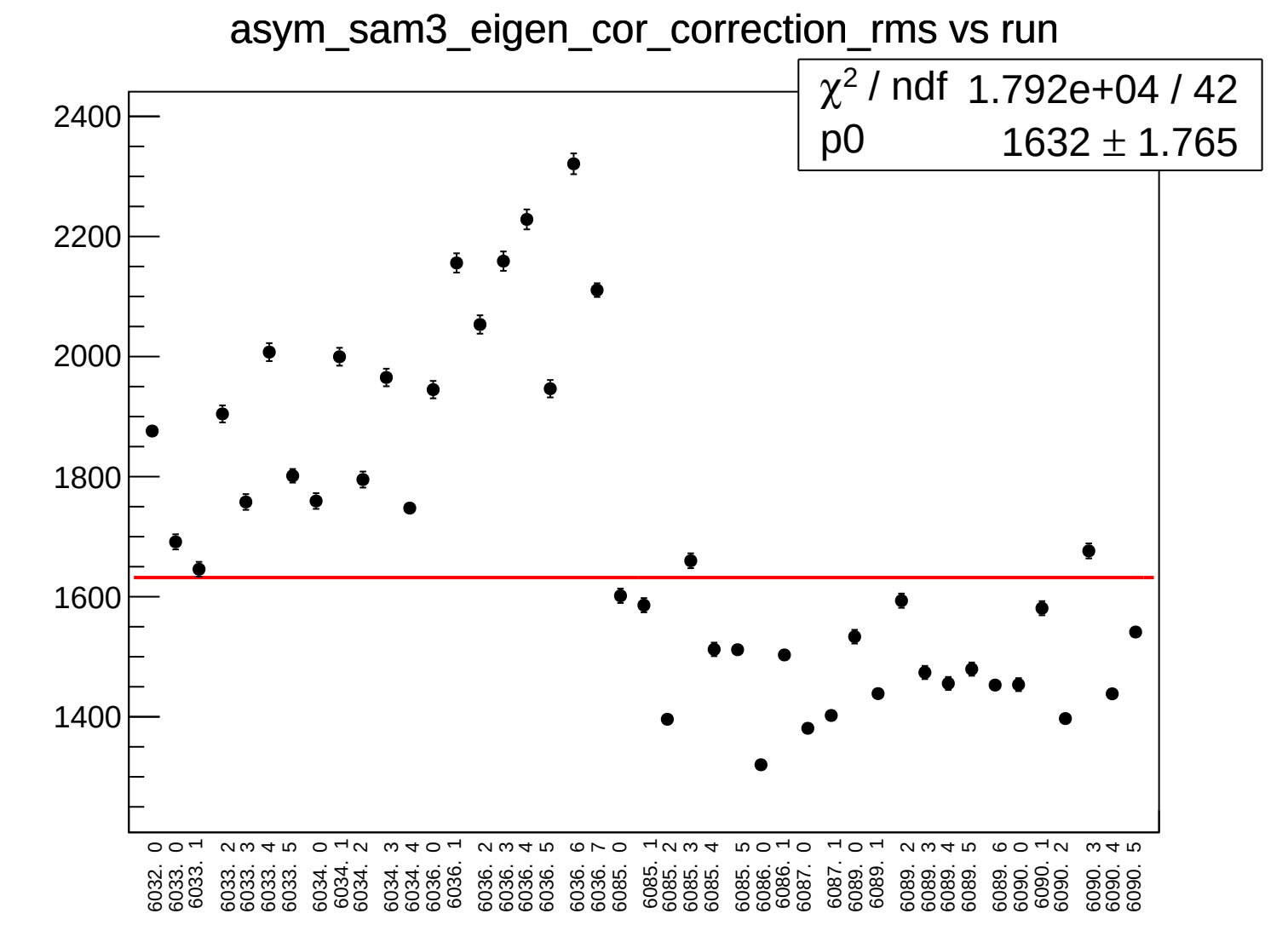

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.792e+04 / 42
p0 1632 ± 1.765
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

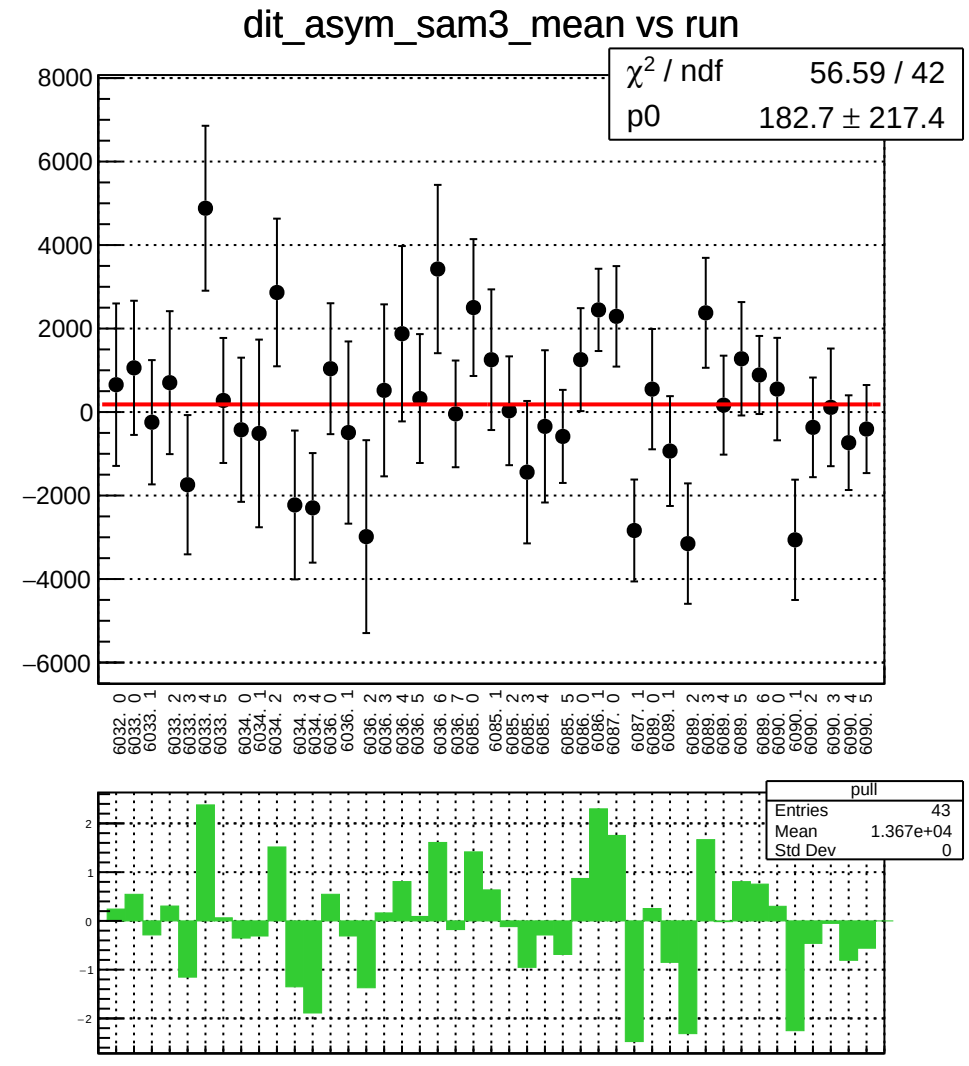

eigen_cor_asym_sam3_mean vs run
χ² / ndf 49.64 / 42
p0 63.2 ± 173.9
pull
Entries 43
Mean 31.15
Std Dev 0
pull1D
Entries 43
Mean −0.01416
Std Dev 1.074

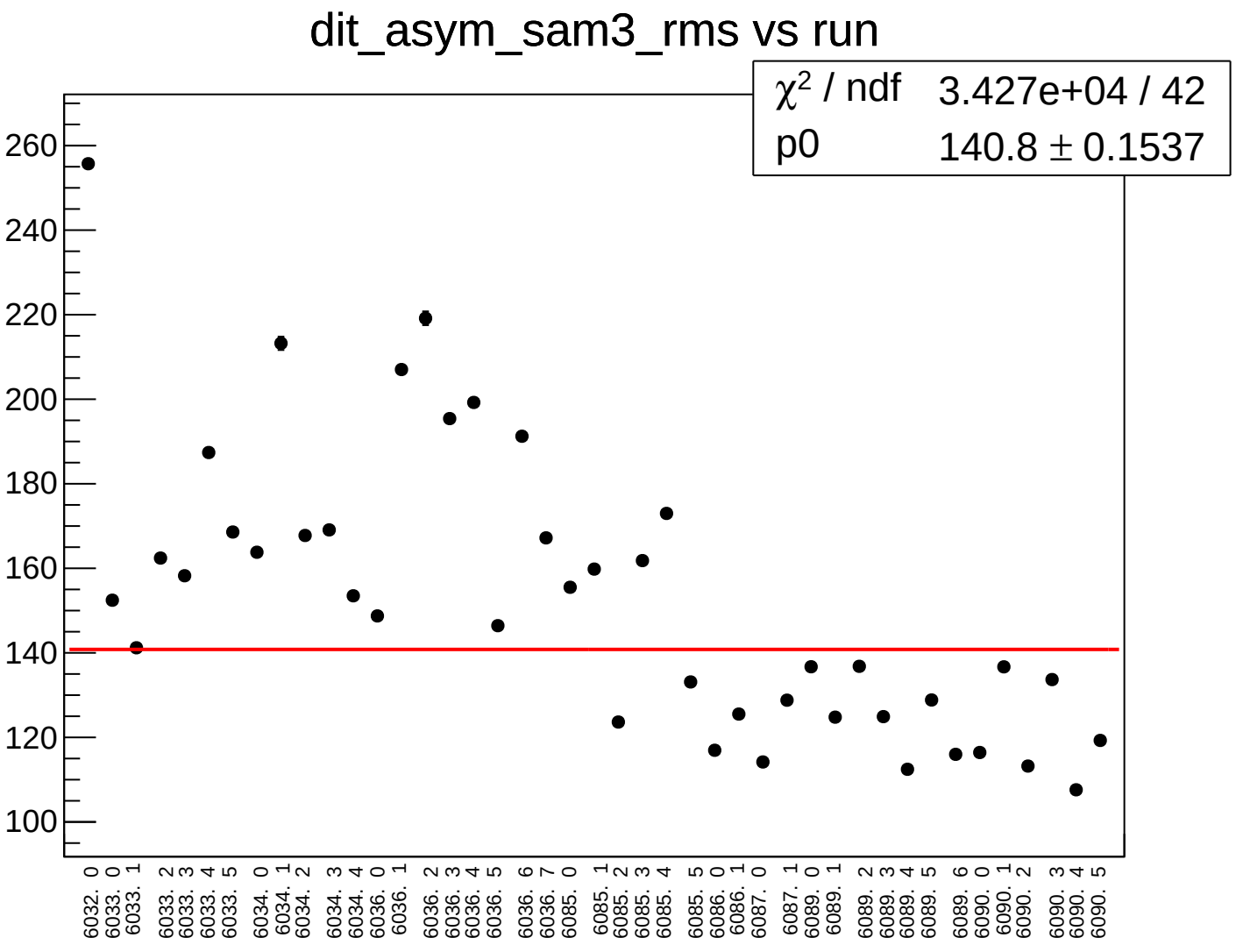

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.938e+04 / 42
p0 113.6 ± 0.1229
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

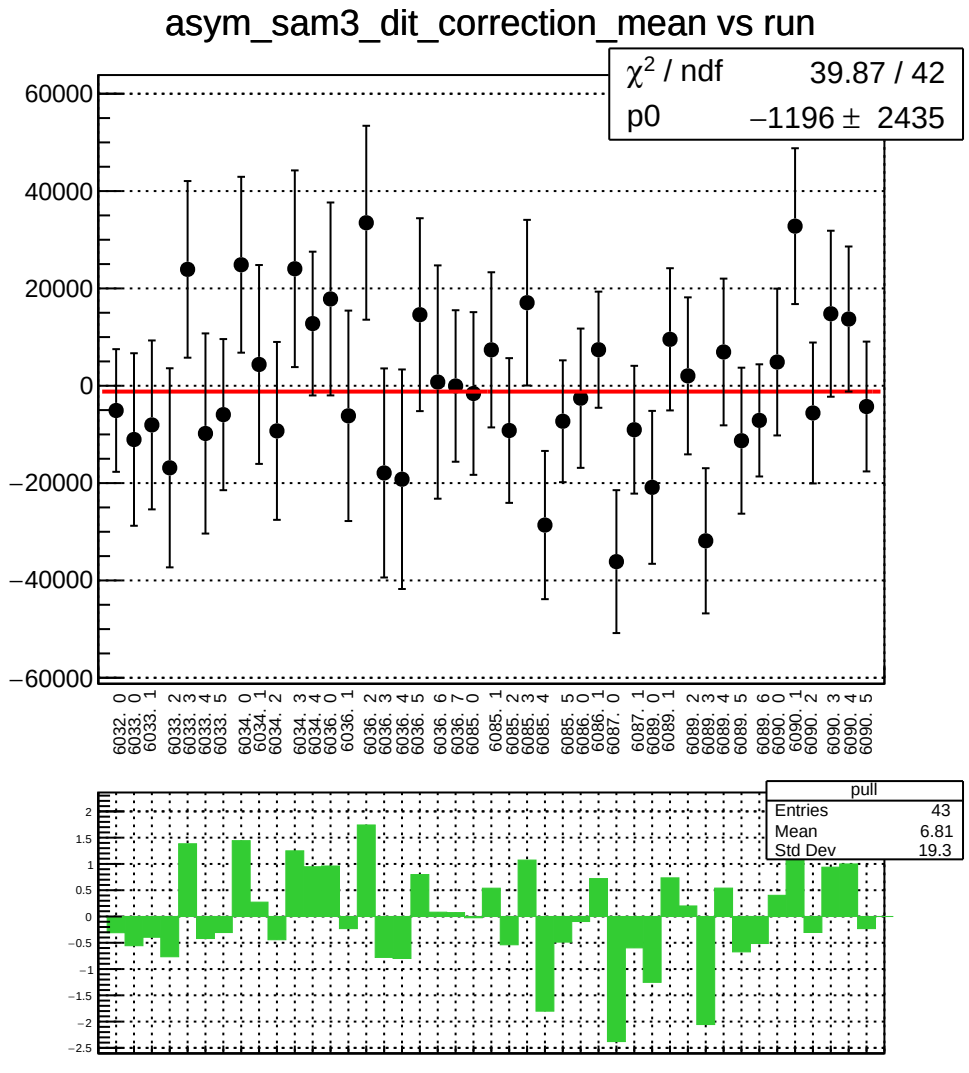

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 40.02 / 42
p0 −1394 ± 2496
pull
Entries 43
Mean 11.61
Std Dev 23.01

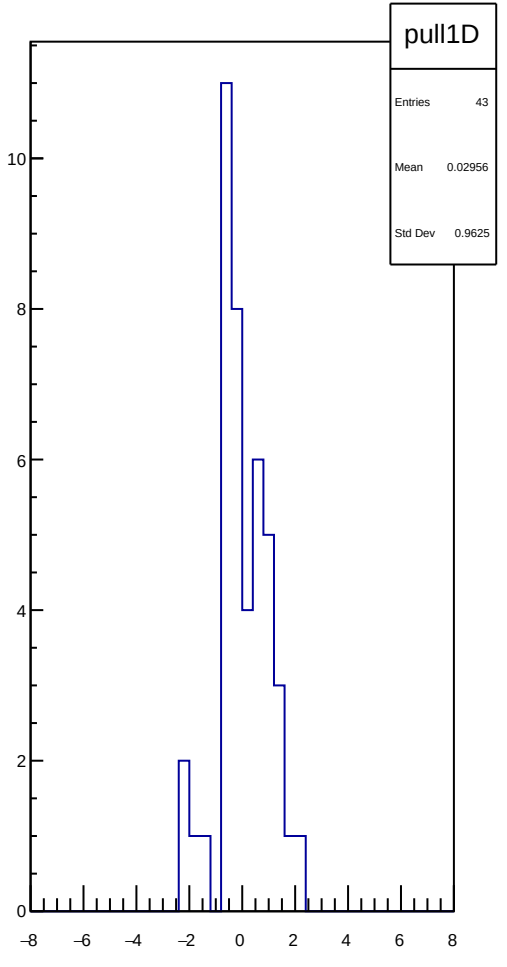

pull1D
Entries 43
Mean 0.02981
Std Dev 0.9643

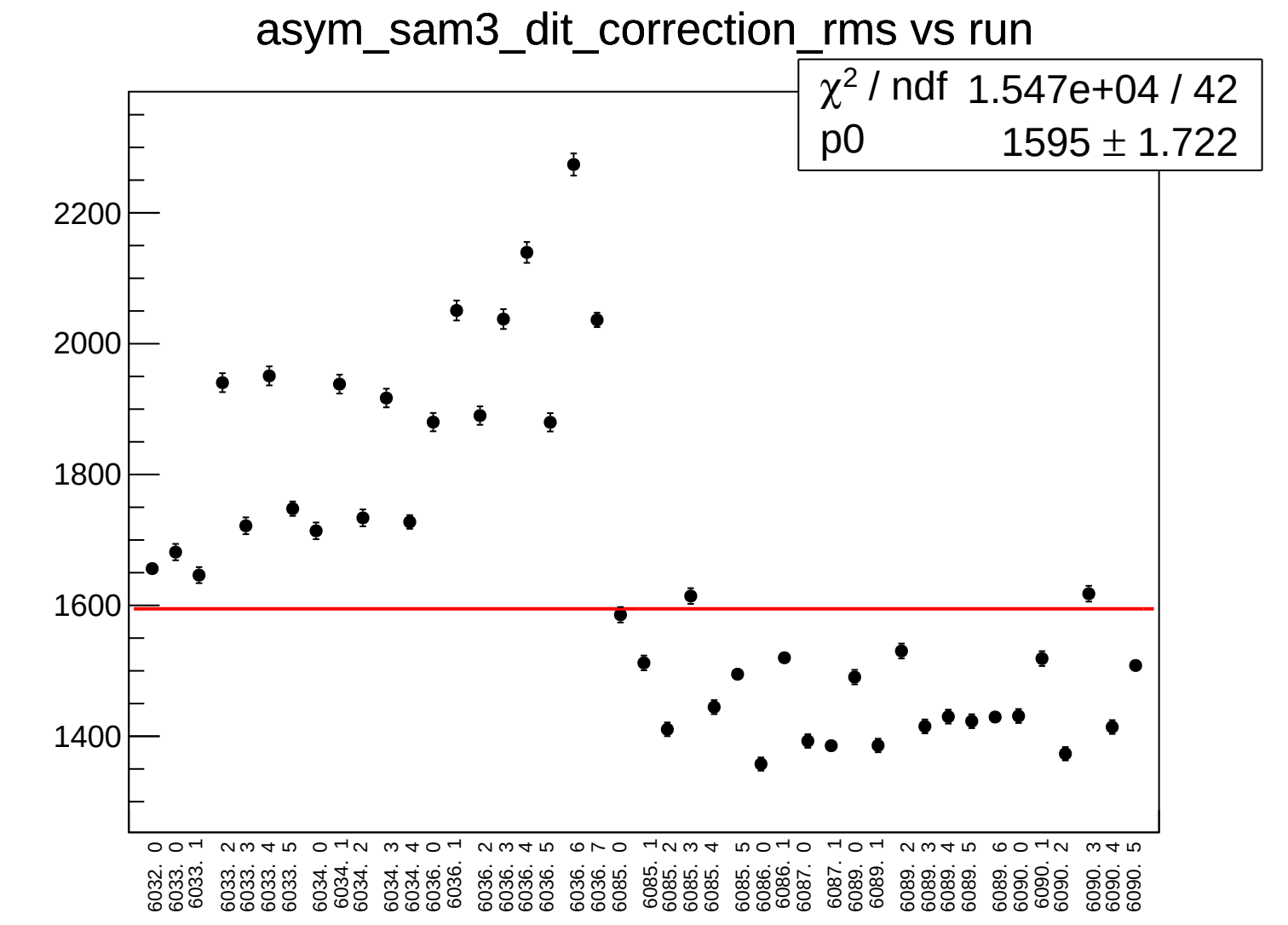

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.792e+04 / 42
p0 1632 ± 1.765
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

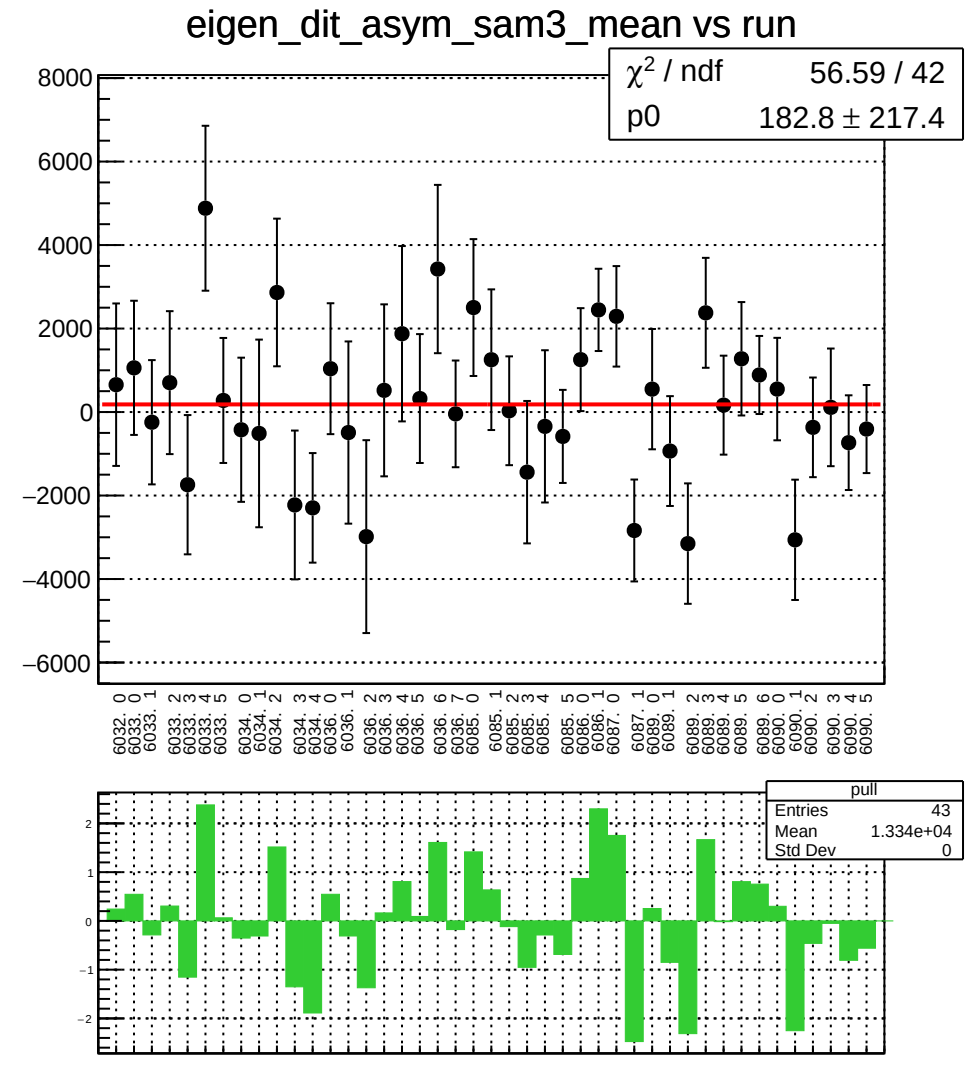

dit_asym_sam3_mean vs run
χ² / ndf 56.59 / 42
p0 182.7 ± 217.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.367e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0001192
Std Dev 1.147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

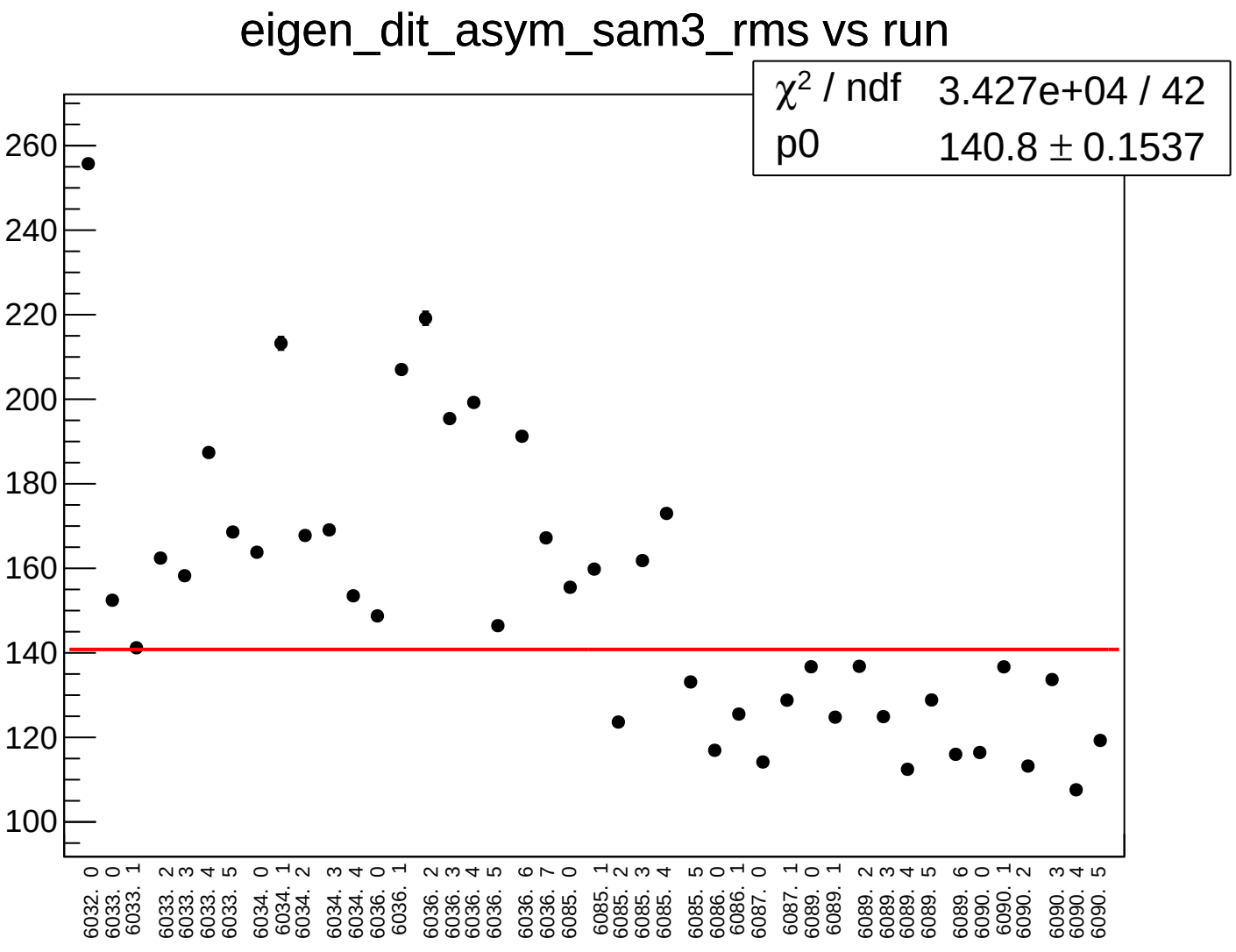

dit_asym_sam3_rms vs run
χ² / ndf 3.427e+04 / 42
p0 140.8 ± 0.1537
260
240
220
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

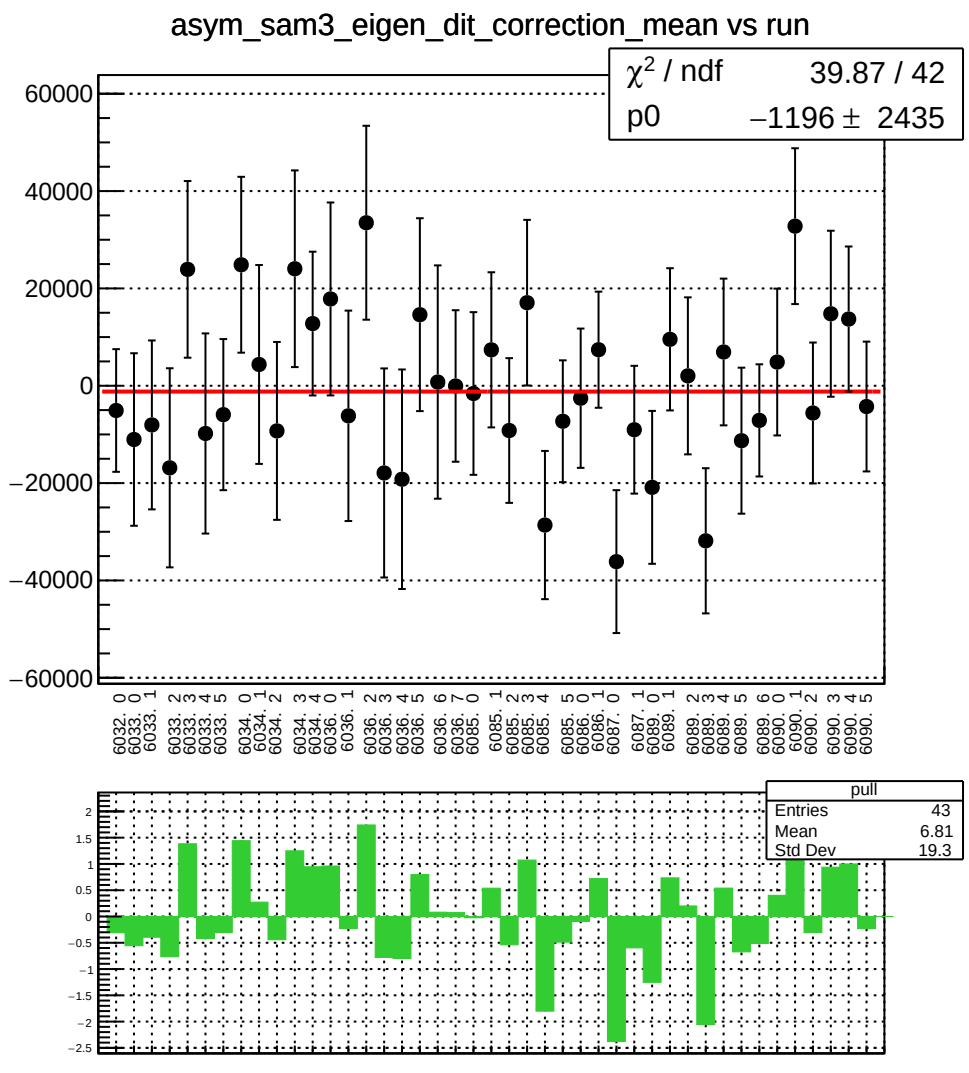

asym_sam3_dit_correction_mean vs run
χ² / ndf 39.87 / 42
p0 −1196 ± 2435
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.81
Std Dev 19.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

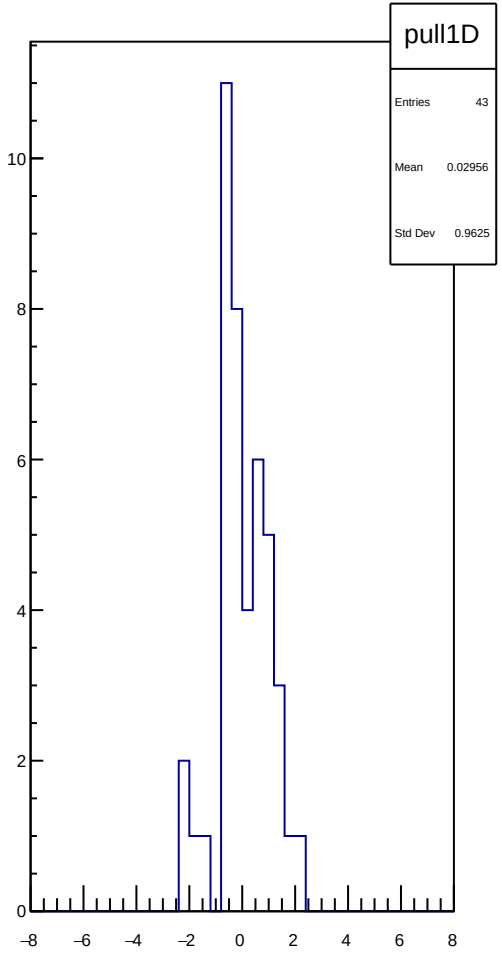

pull1D
Entries 43
Mean 0.02956
Std Dev 0.9625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

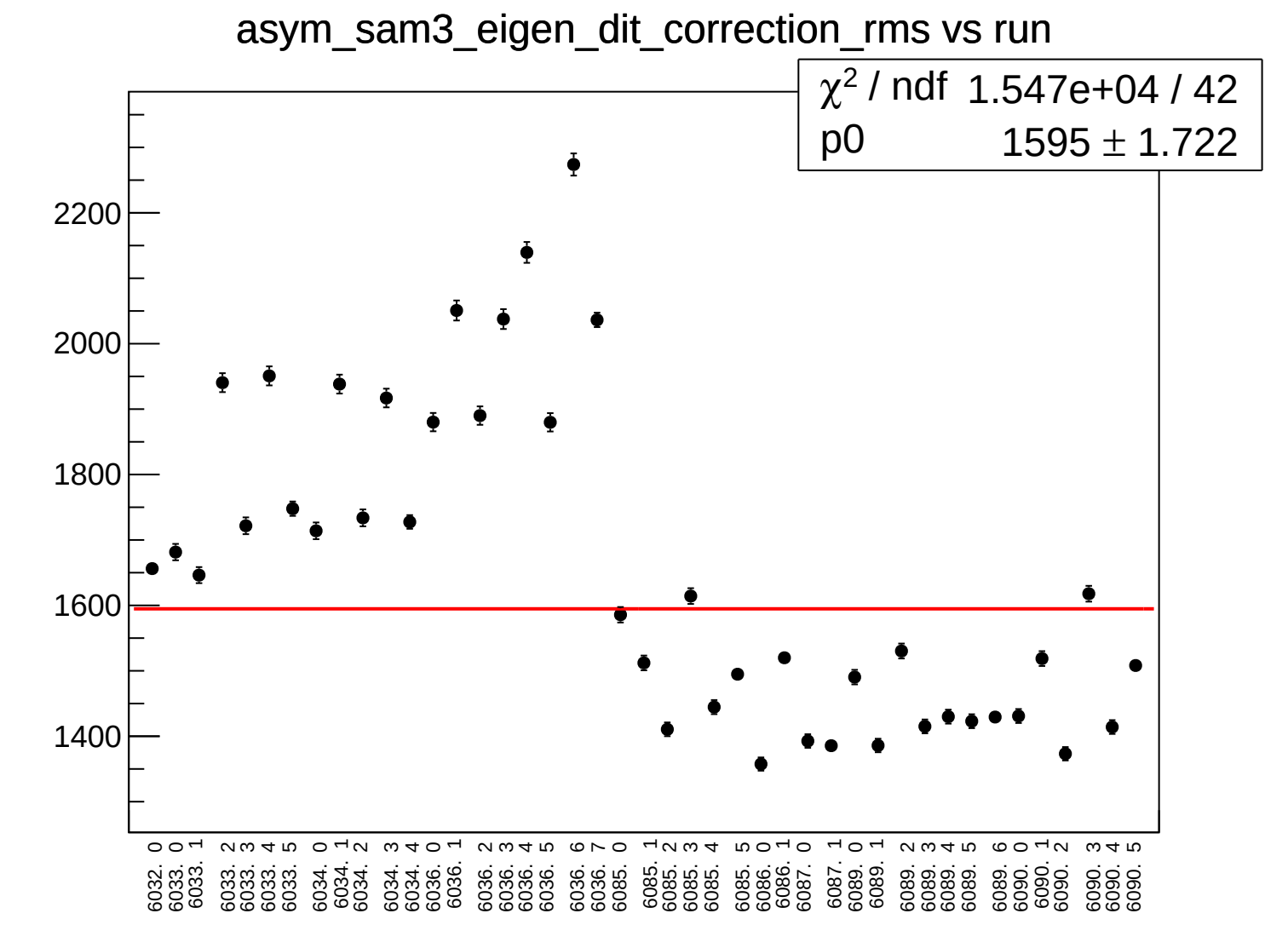

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.547e+04 / 42
p0 1595 ± 1.722
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

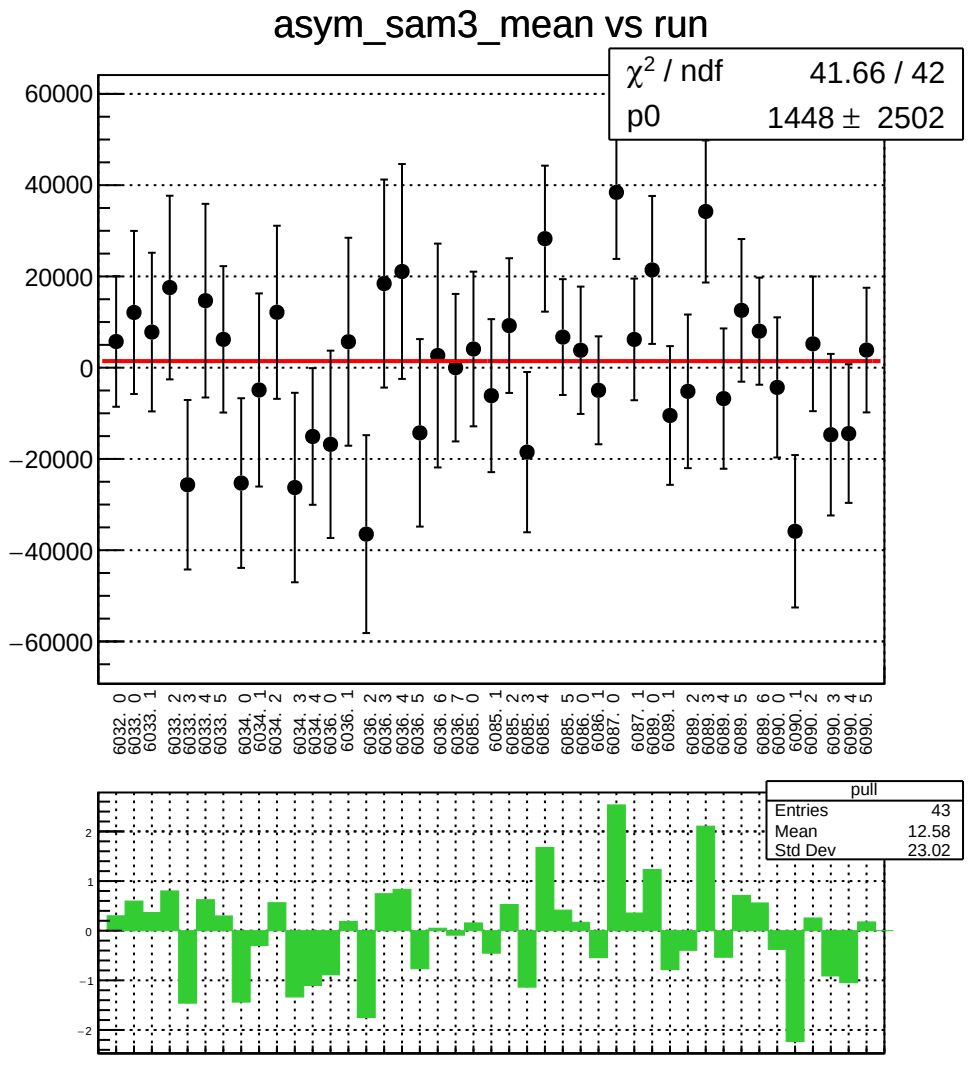

eigen_dit_asym_sam3_mean vs run
χ² / ndf 56.59 / 42
p0 182.8 ± 217.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.334e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0001222
Std Dev 1.147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

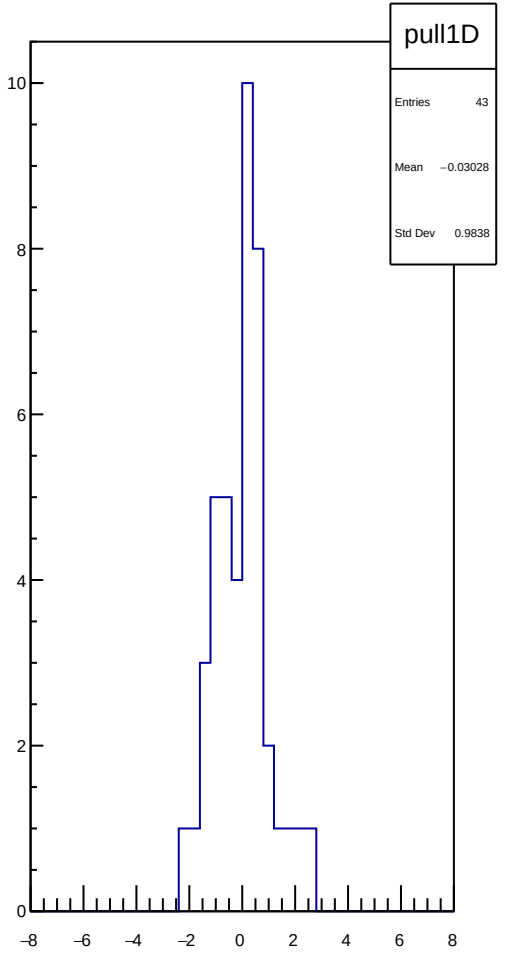

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.427e+04 / 42
p0 140.8 ± 0.1537
260
240
220
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

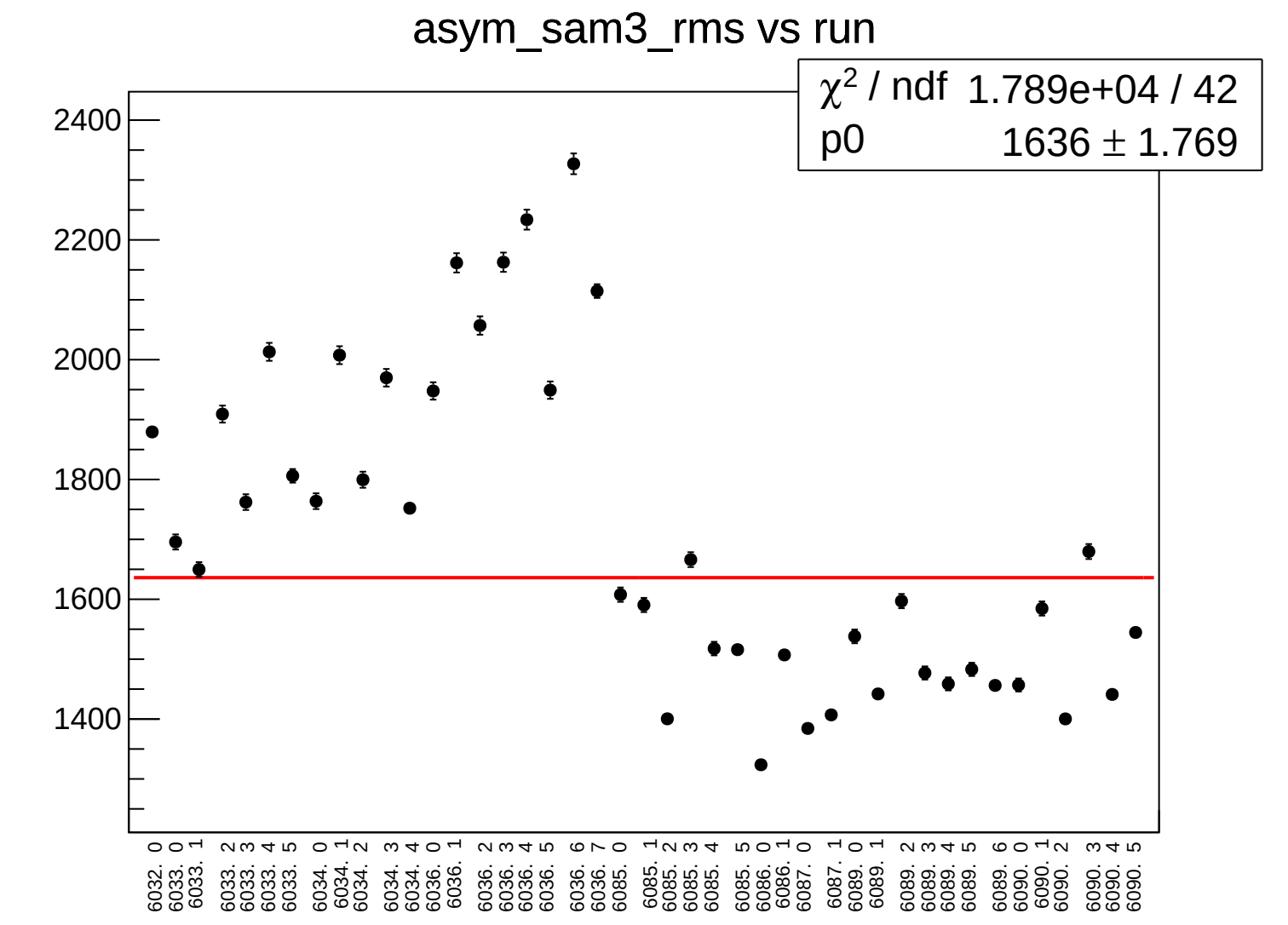

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 39.87 / 42
p0 −1196 ± 2435
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.81
Std Dev 19.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

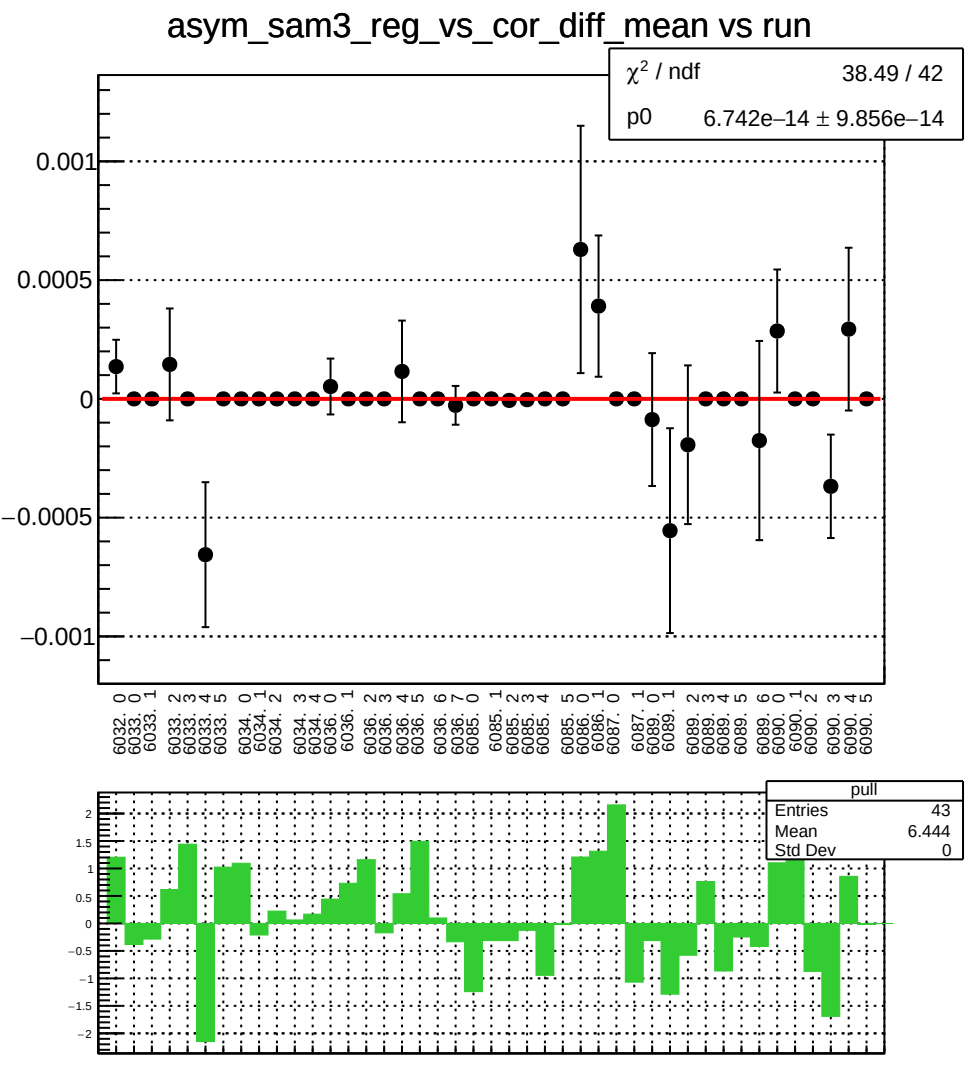

pull1D
Entries 43
Mean 0.02956
Std Dev 0.9625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

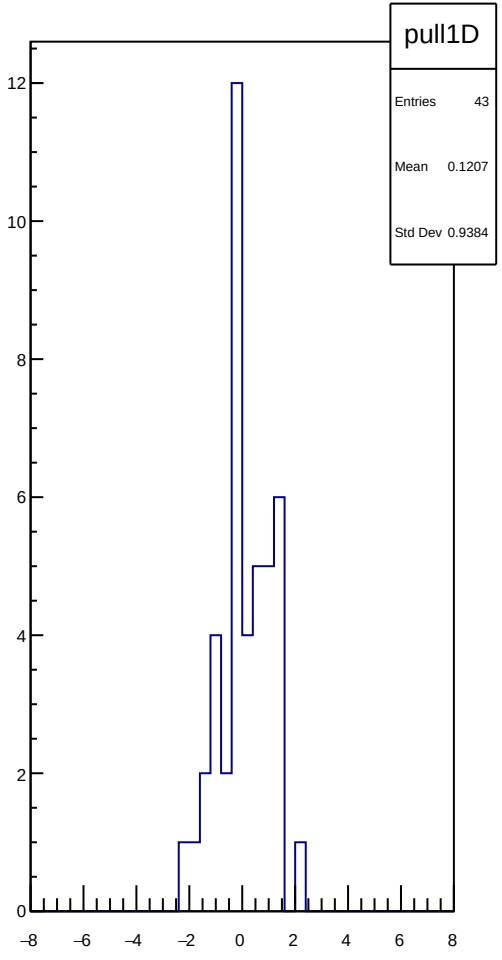

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.547e+04 / 42
p0 1595 ± 1.722
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

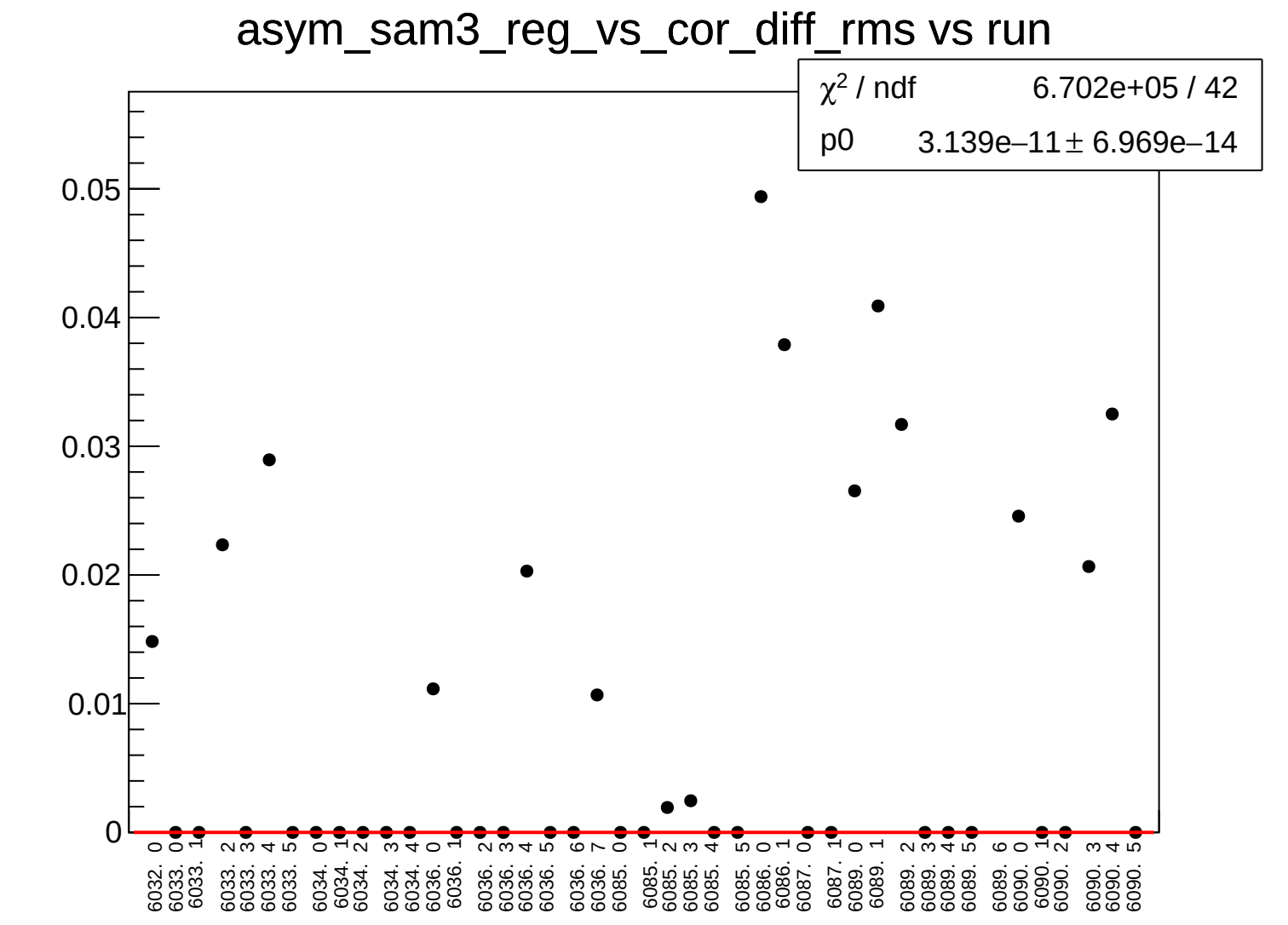

asym_sam3_mean vs run
χ² / ndf 41.66 / 42
p0 1448 ± 2502
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.58
Std Dev 23.02
2
1
0
−1
−2

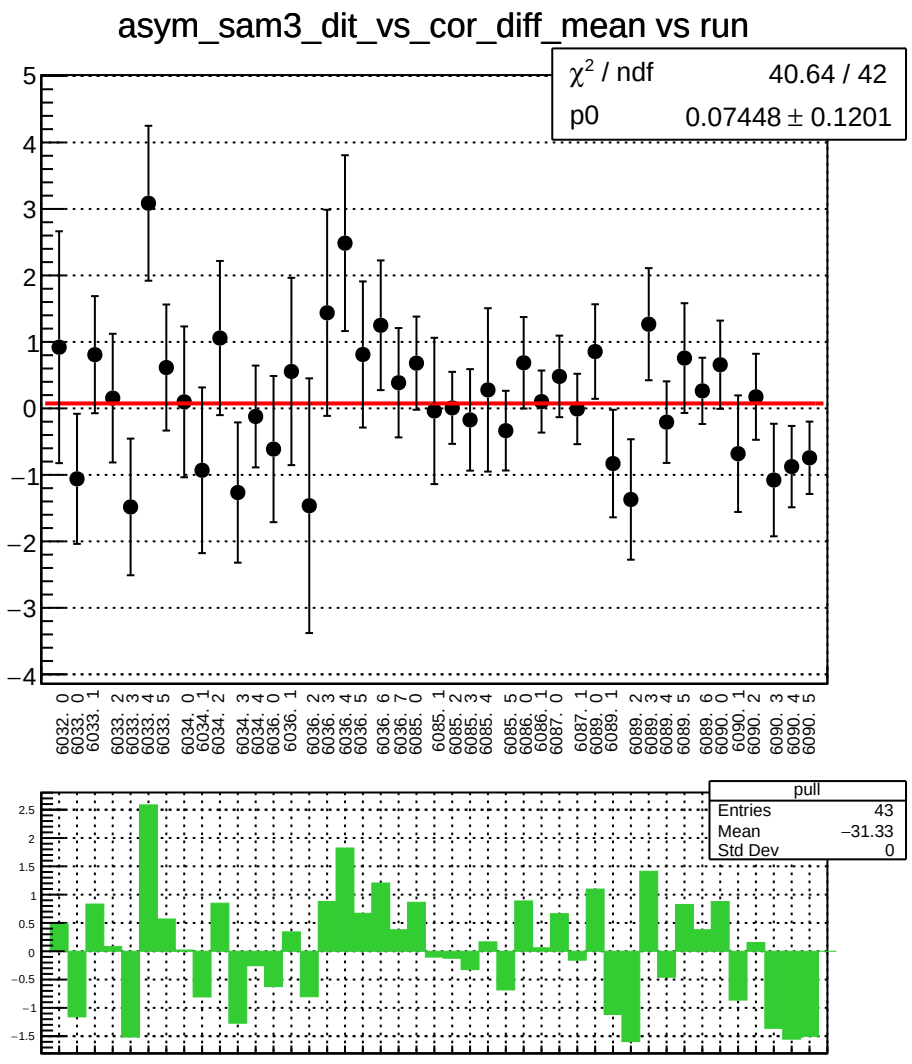

pull1D
Entries 43
Mean −0.03028
Std Dev 0.9838
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

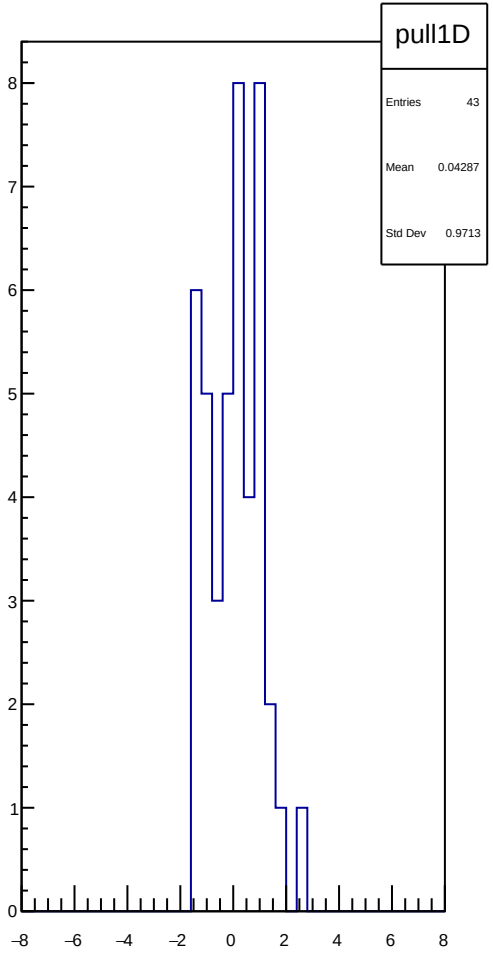

asym_sam3_rms vs run
χ² / ndf 1.789e+04 / 42
p0 1636 ± 1.769
2400
2200
2000
1800
1600
1400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

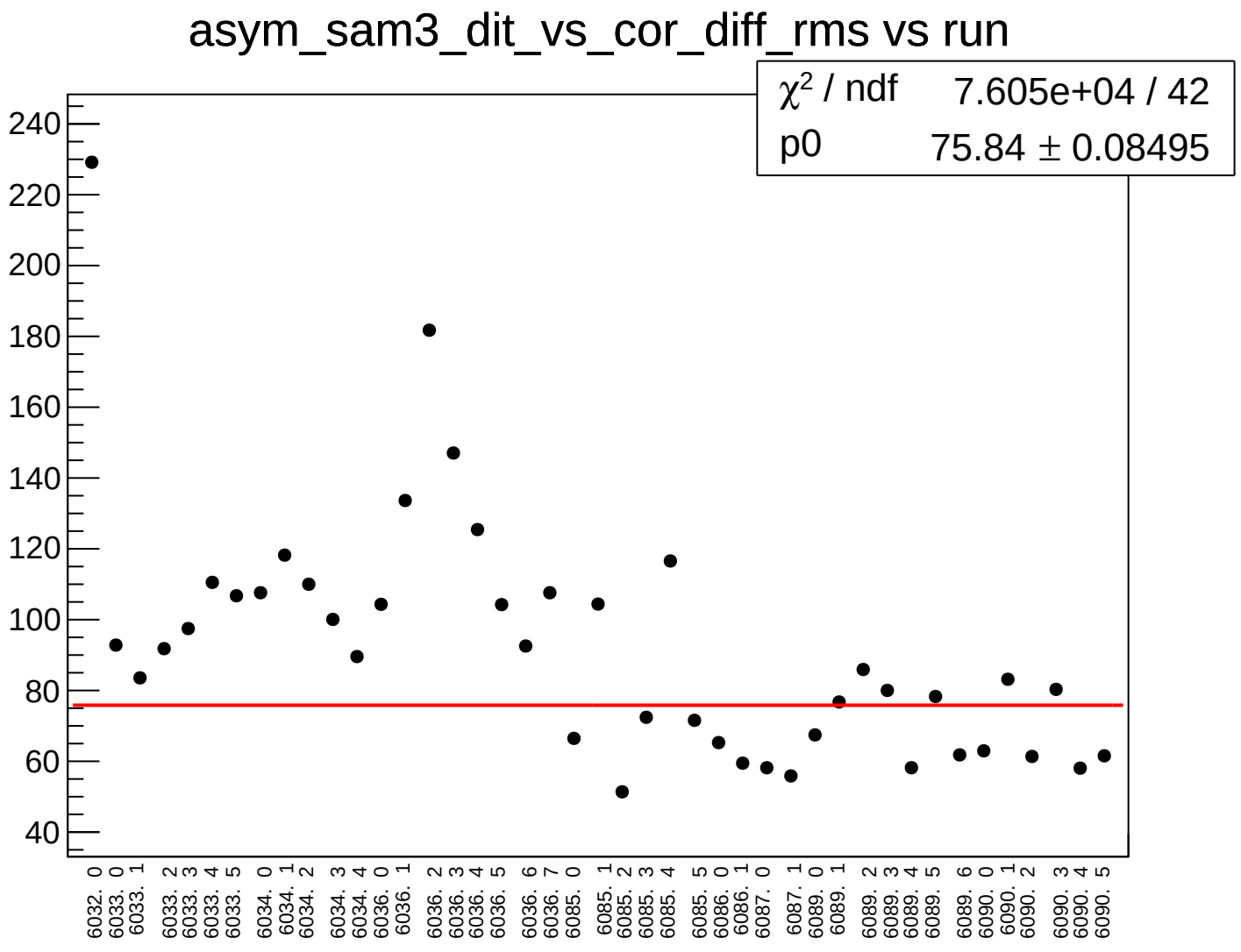

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 38.49 / 42
p0 6.742e−14 ± 9.856e−14
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.444
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

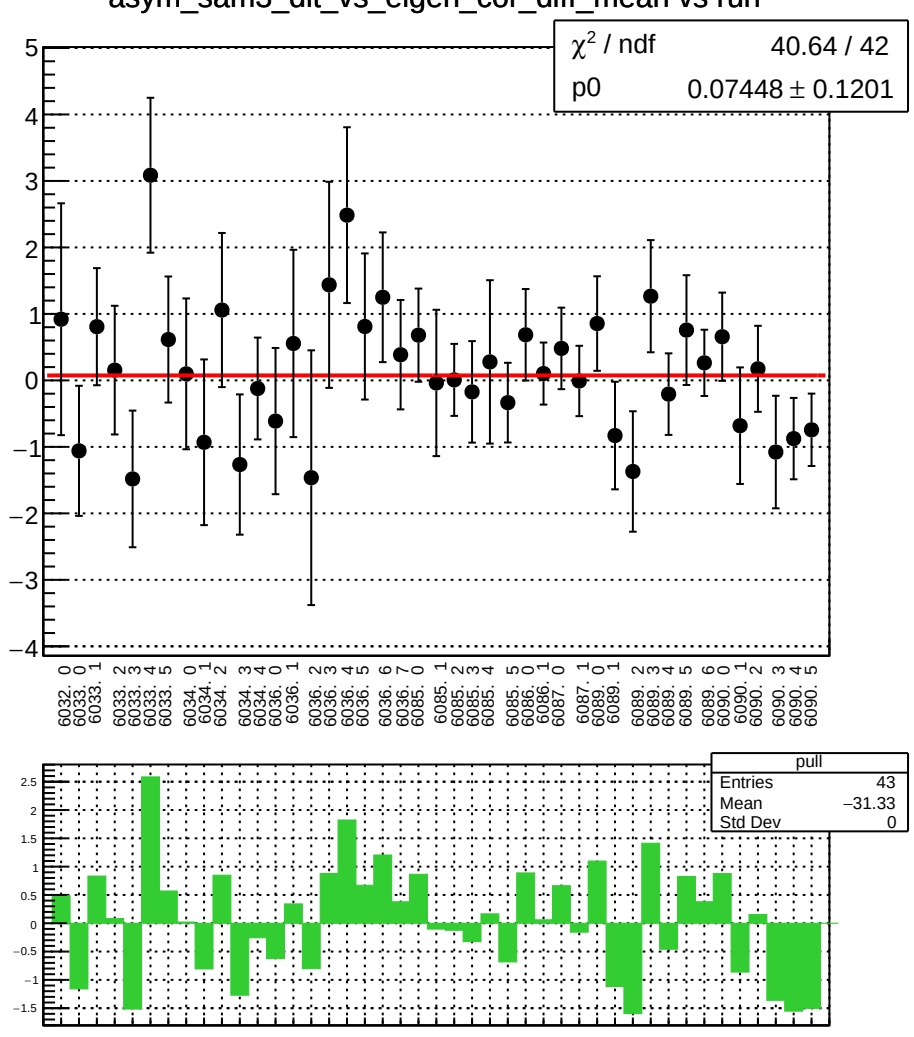

pull1D
Entries 43
Mean 0.1207
Std Dev 0.9384
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

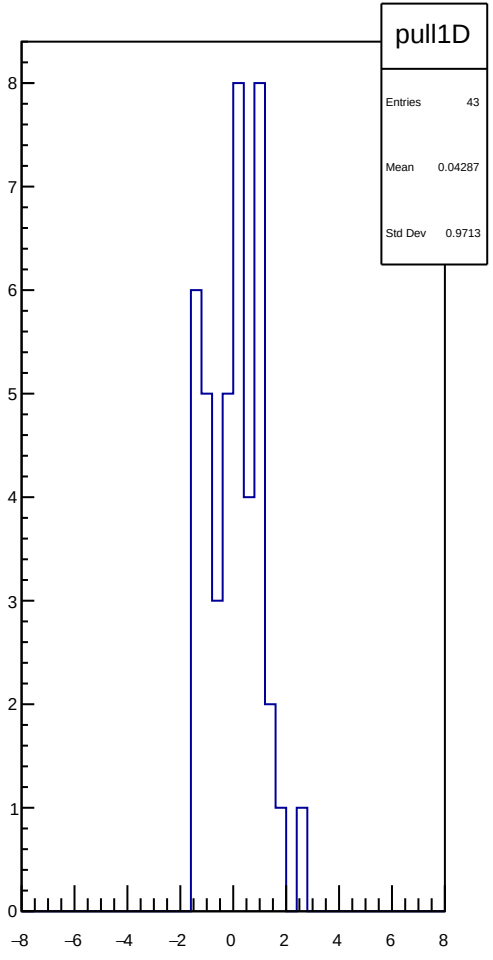

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 6.702e+05 / 42
p0 3.139e−11 ± 6.969e−14
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

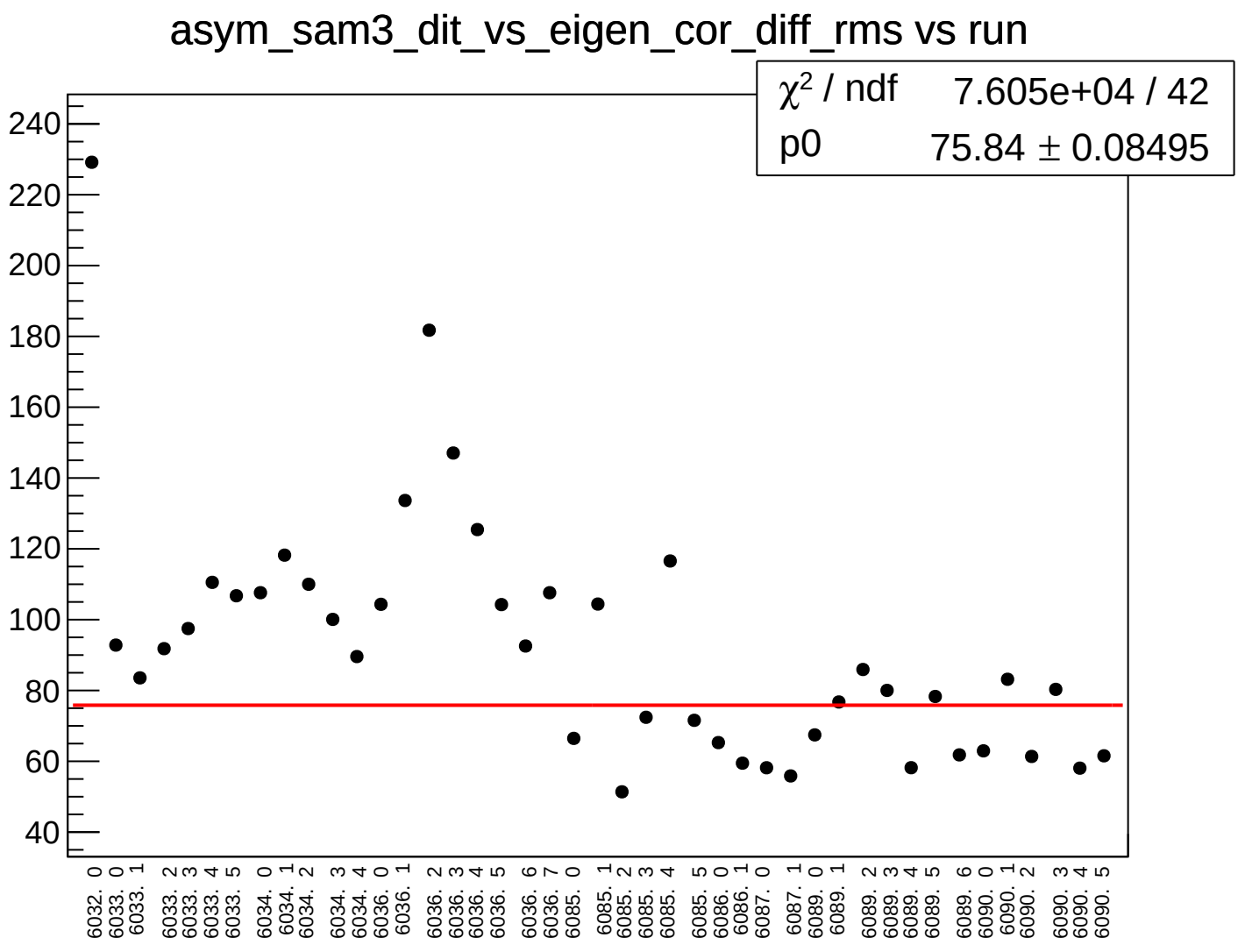

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 40.64 / 42
p0 0.07448 ± 0.1201
pull
Entries 43
Mean −31.33
Std Dev 0

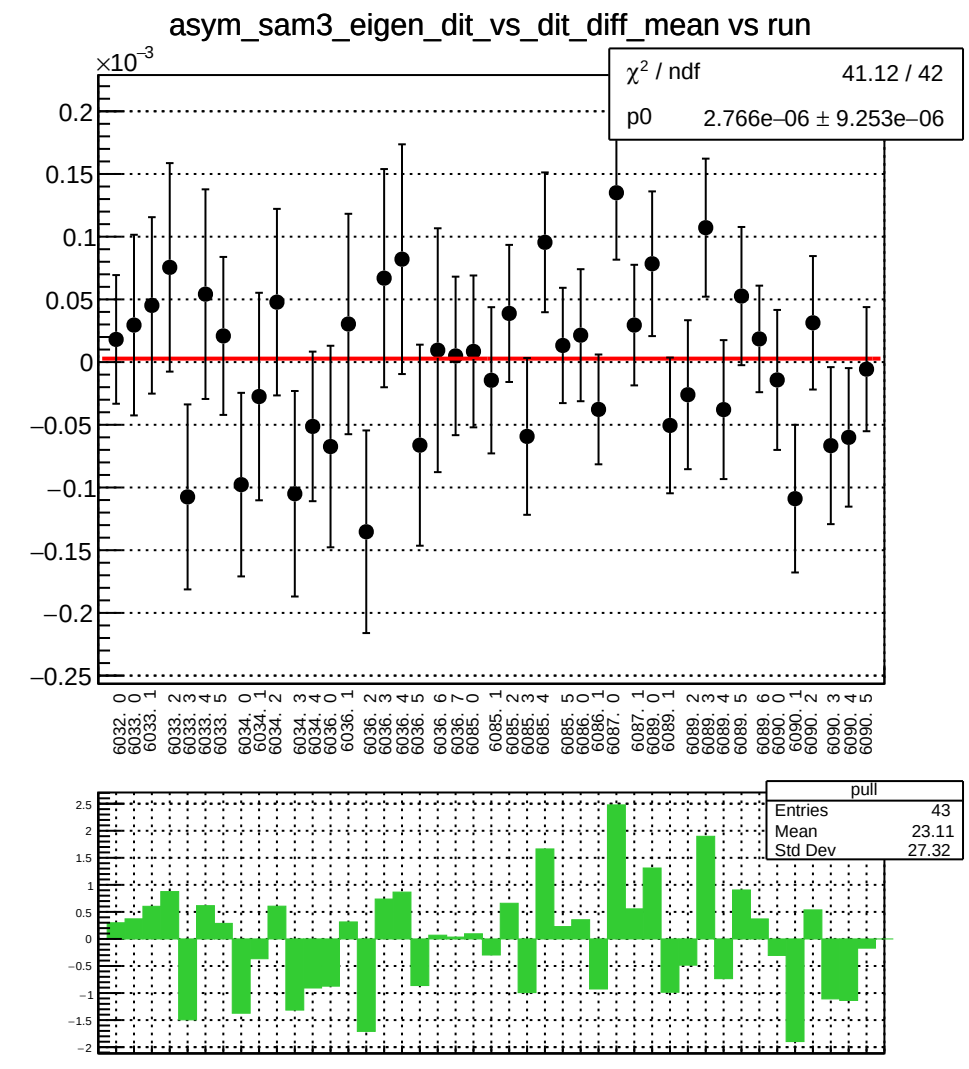

pull1D
Entries 43
Mean 0.04287
Std Dev 0.9713

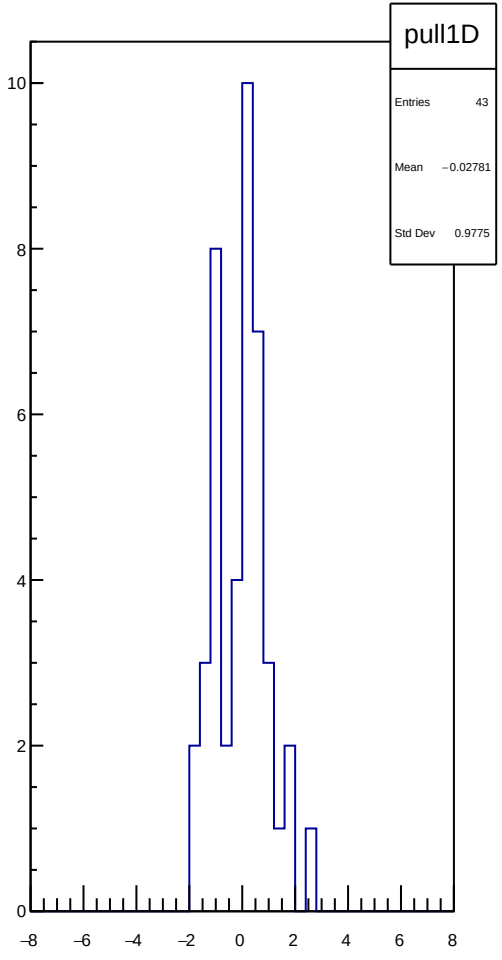

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 7.605e+04 / 42
p0 75.84 ± 0.08495
240
220
200
180
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

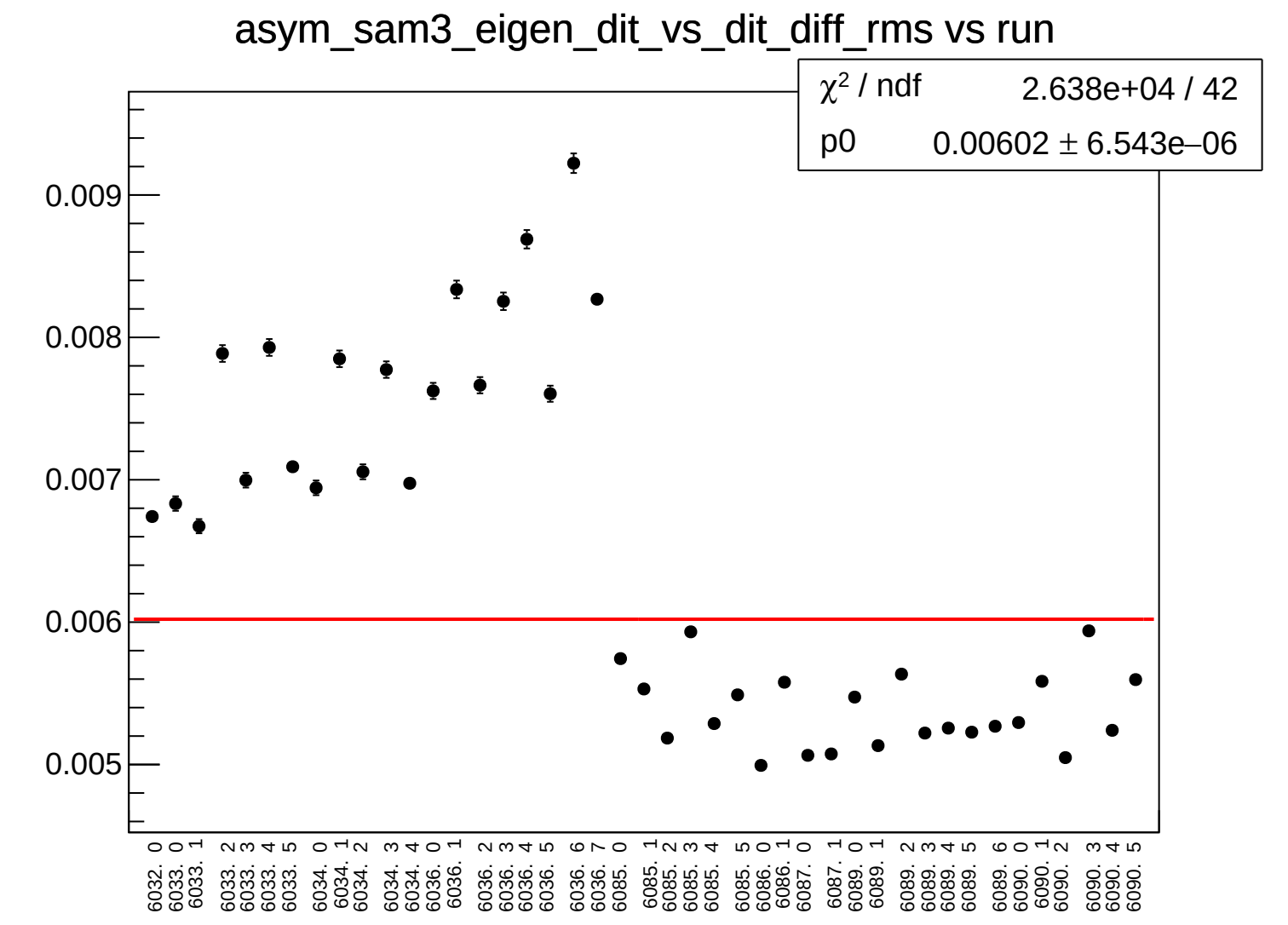

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.64 / 42
p0 0.07448 ± 0.1201
pull
Entries 43
Mean −31.33
Std Dev 0

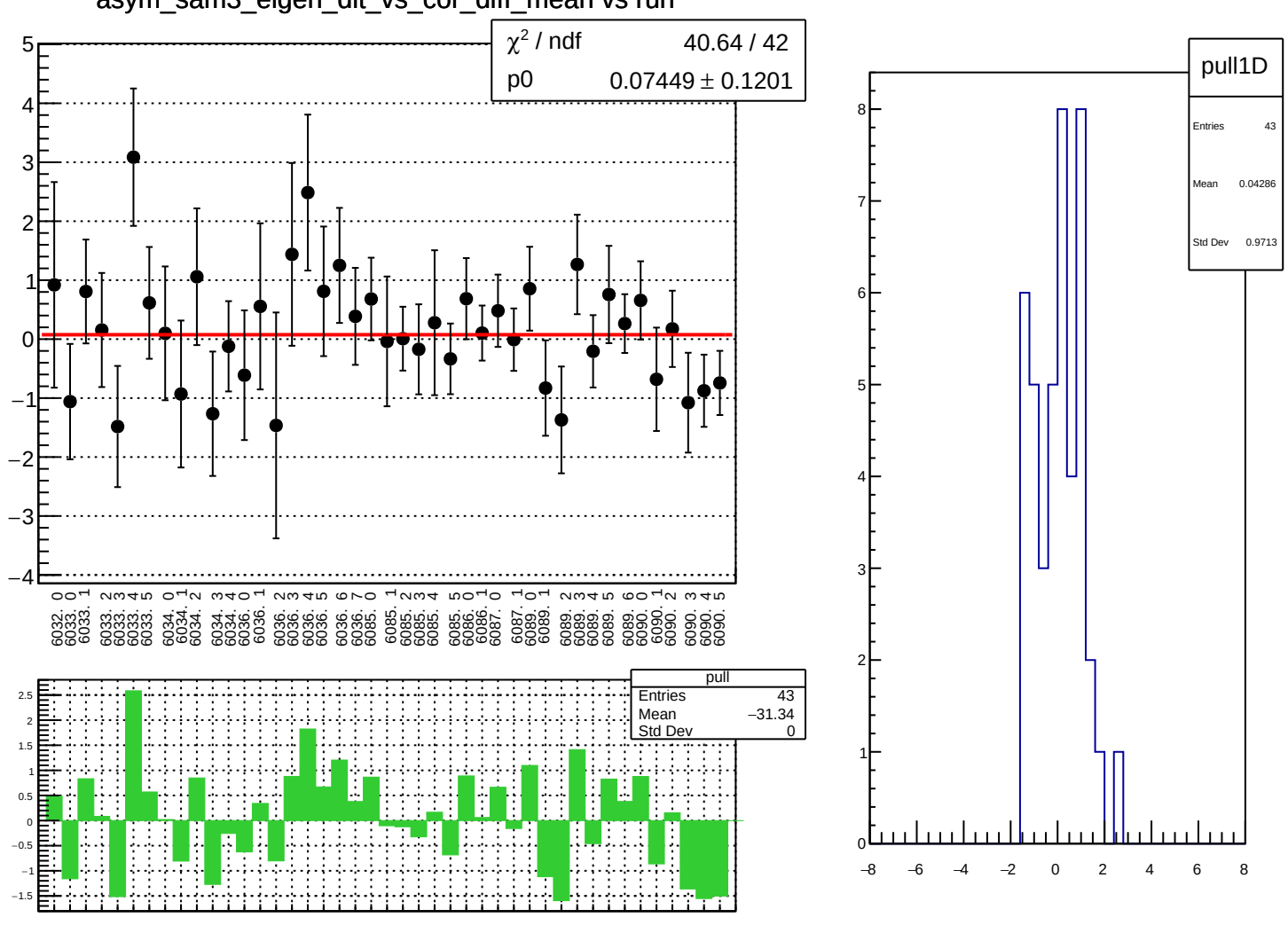

pull1D
Entries 43
Mean 0.04287
Std Dev 0.9713

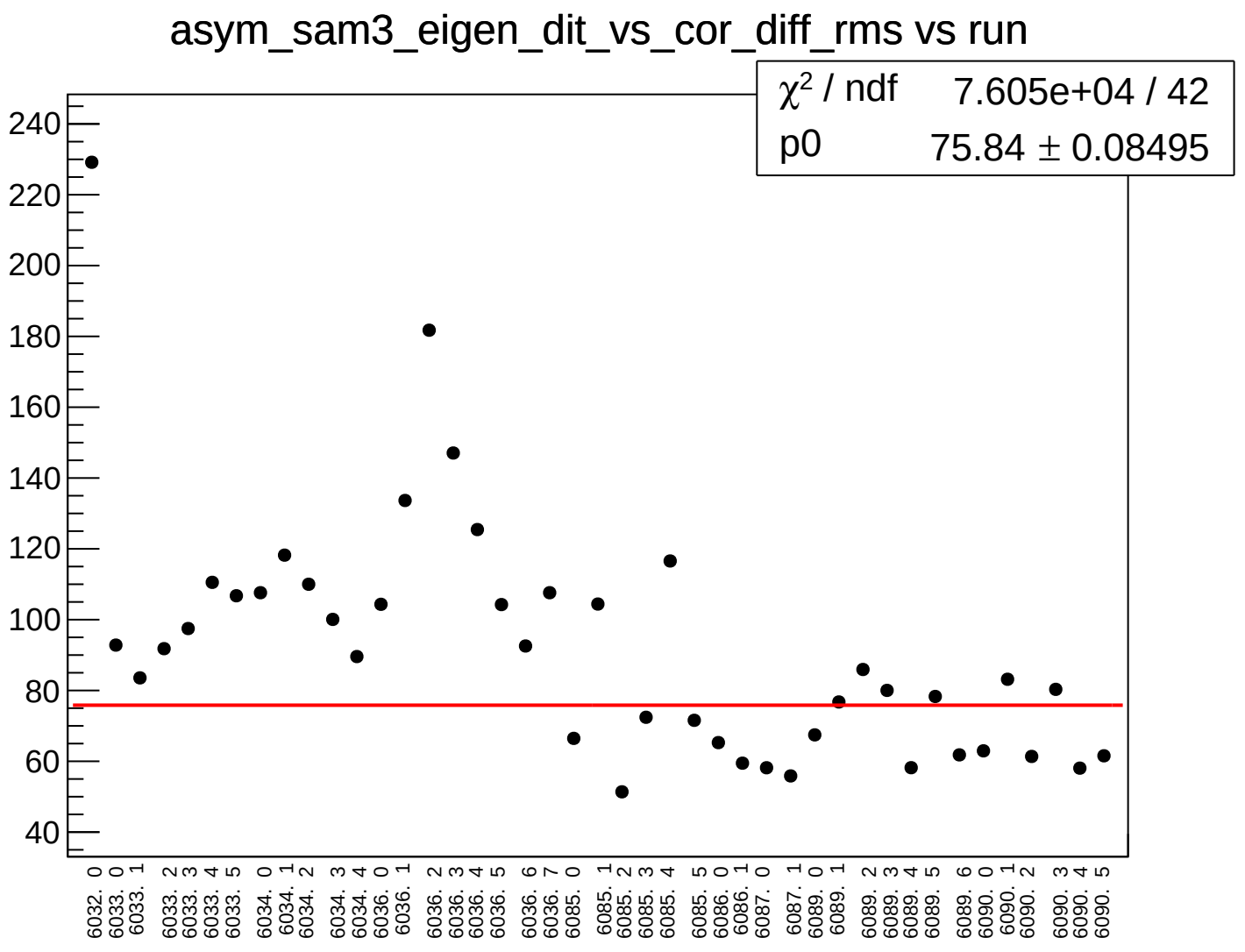

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.605e+04 / 42
p0 75.84 ± 0.08495
240
220
200
180
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

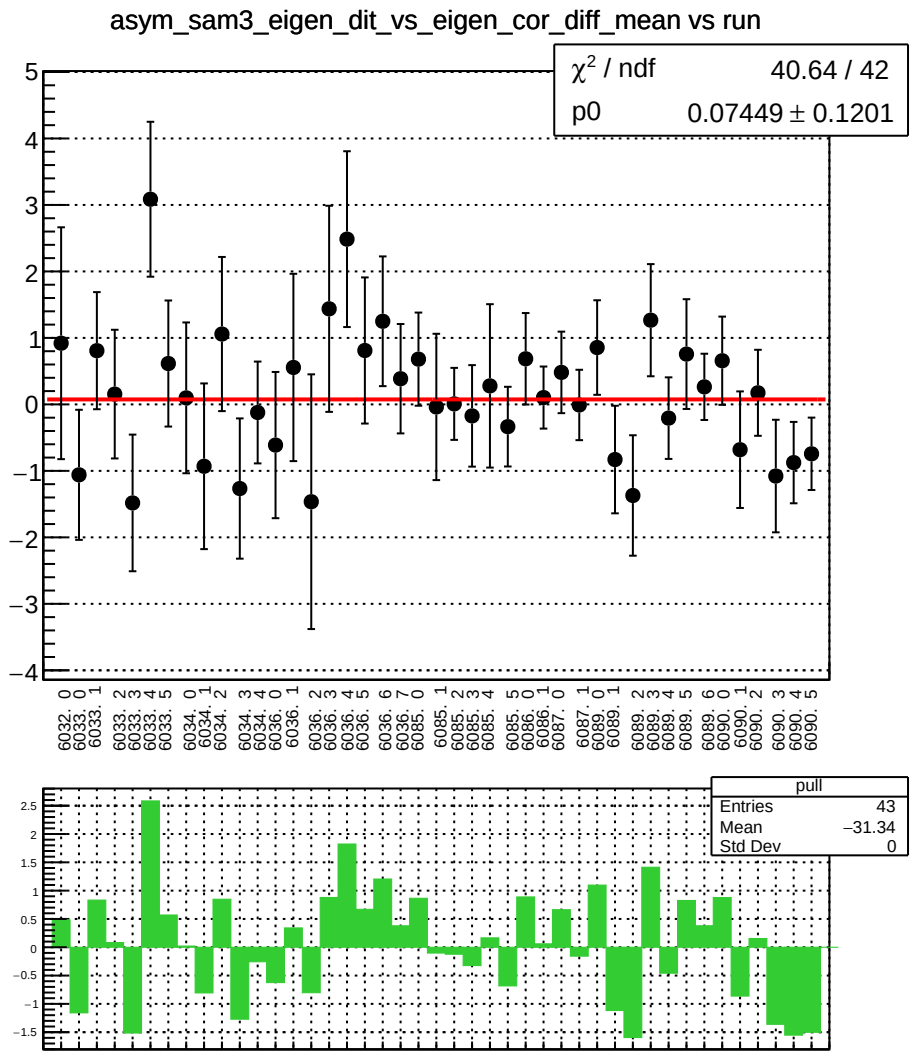

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.12 / 42
p0 2.766e−06 ± 9.253e−06
pull
Entries 43
Mean 23.11
Std Dev 27.32

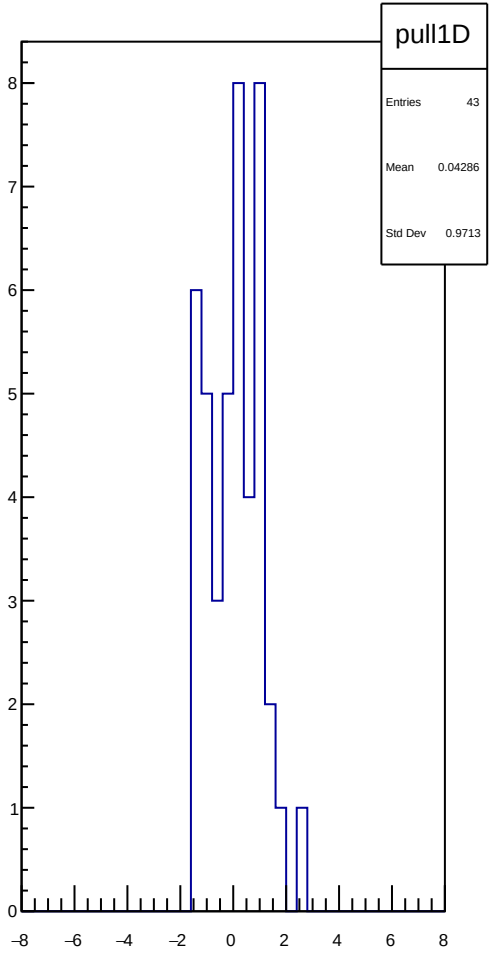

pull1D
Entries 43
Mean −0.02781
Std Dev 0.9775

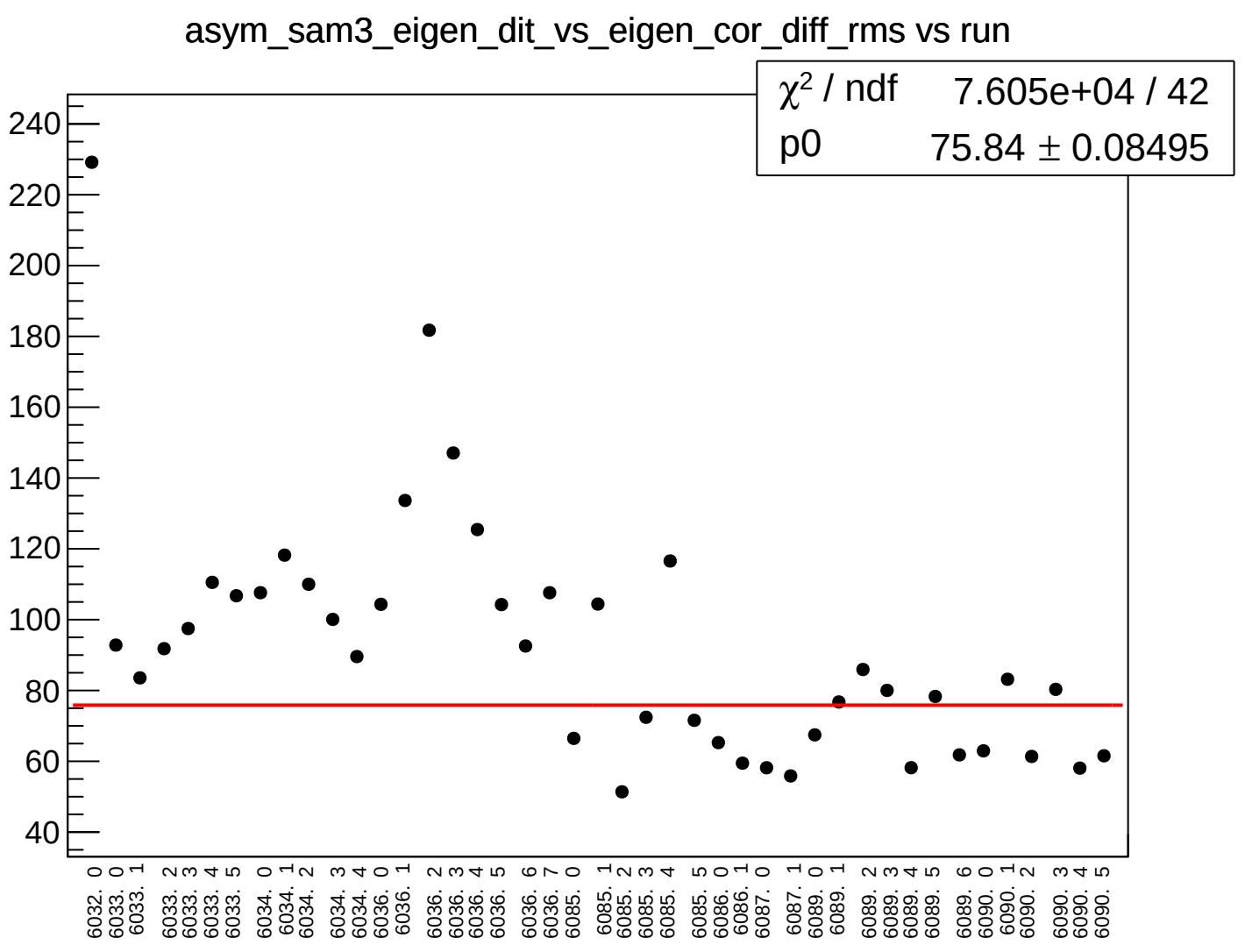

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.638e+04 / 42
p0 0.00602 ± 6.543e–06
0.009
0.008
0.007
0.006
0.005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

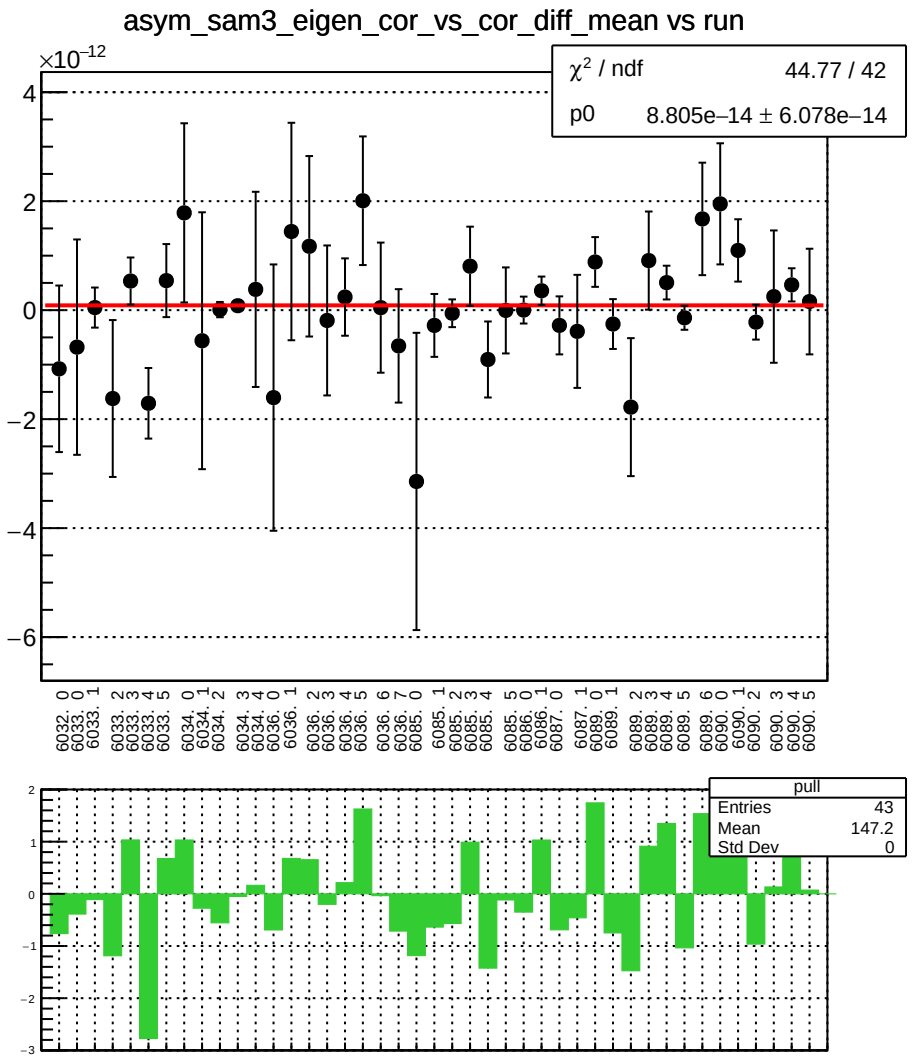

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.64 / 42
p0 0.07449 ± 0.1201
pull
Entries 43
Mean −31.34
Std Dev 0
pull1D
Entries 43
Mean 0.04286
Std Dev 0.9713

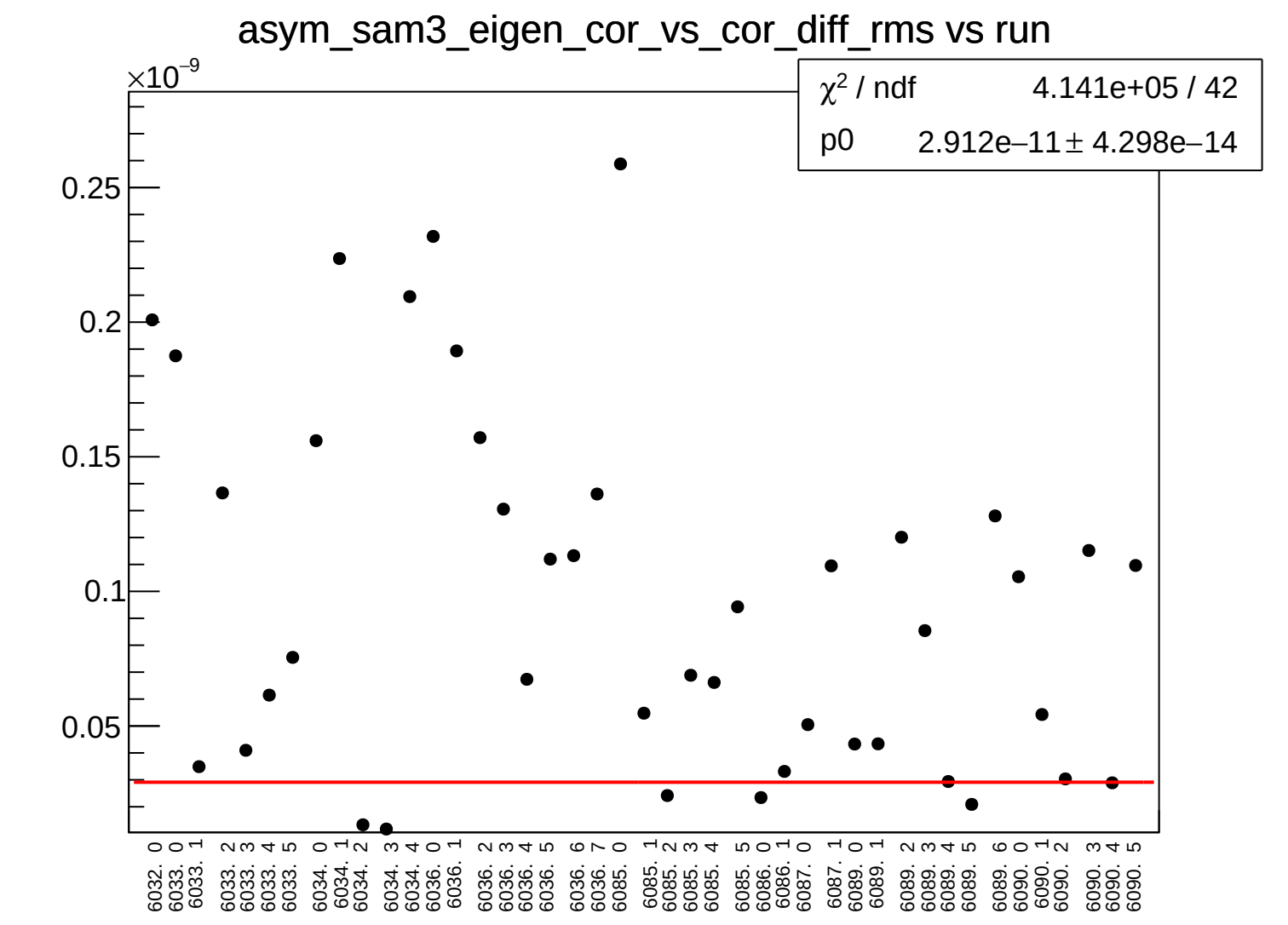

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.605e+04 / 42
p0 75.84 ± 0.08495
240
220
200
180
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

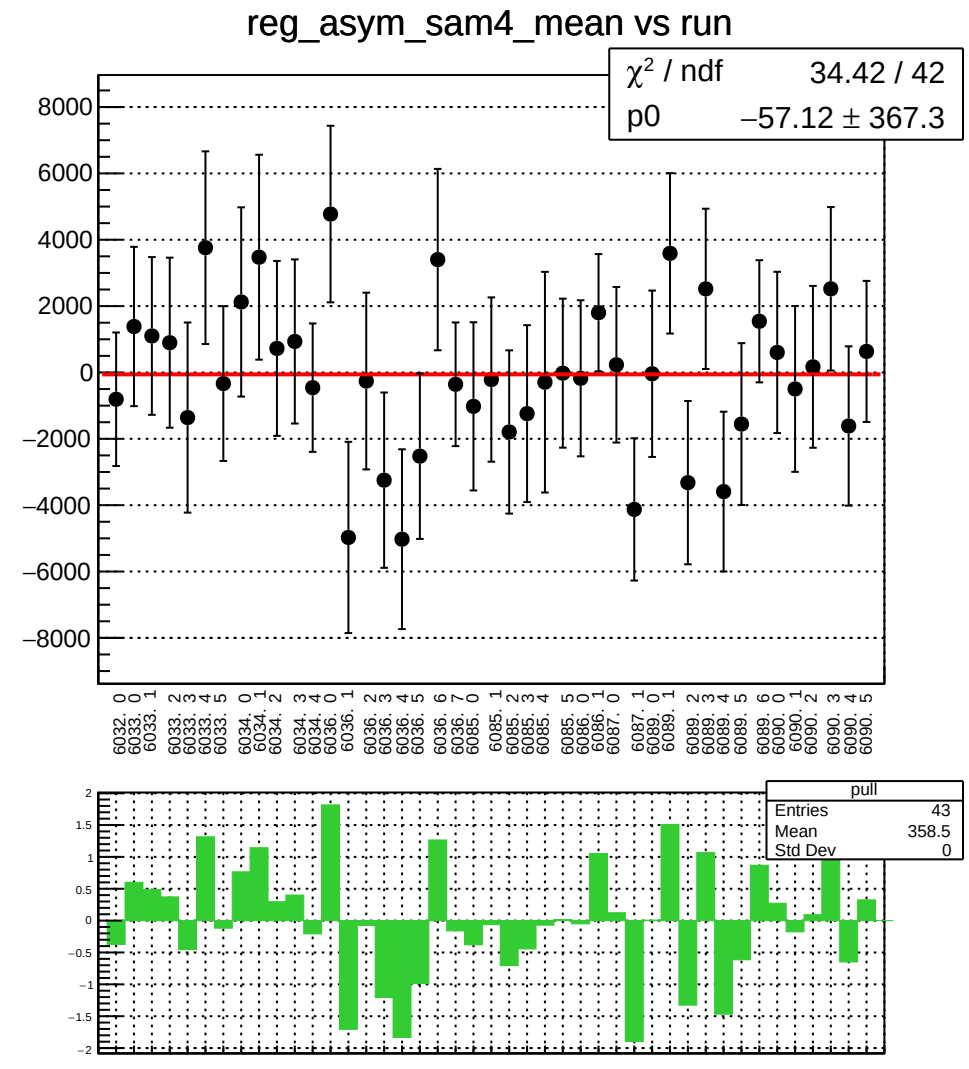

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.64 / 42
p0 0.07449 ± 0.1201
pull
Entries 43
Mean −31.34
Std Dev 0

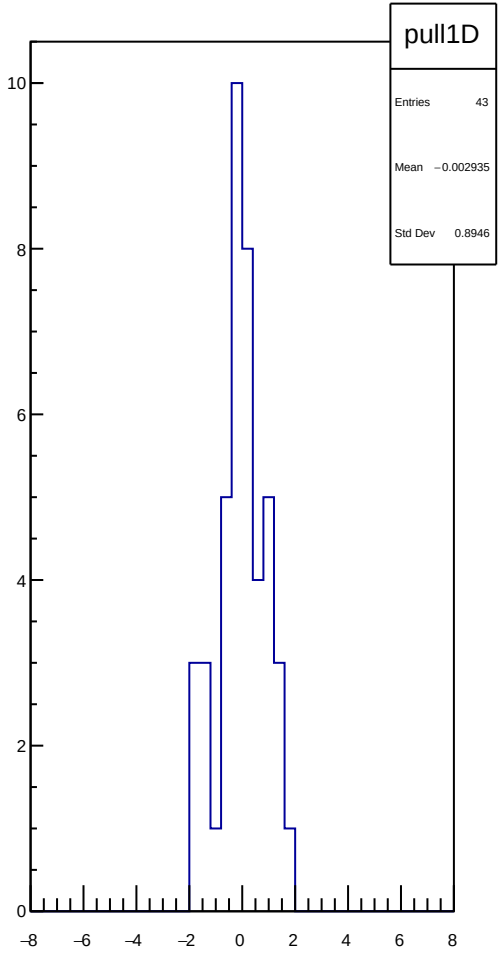

pull1D
Entries 43
Mean 0.04286
Std Dev 0.9713

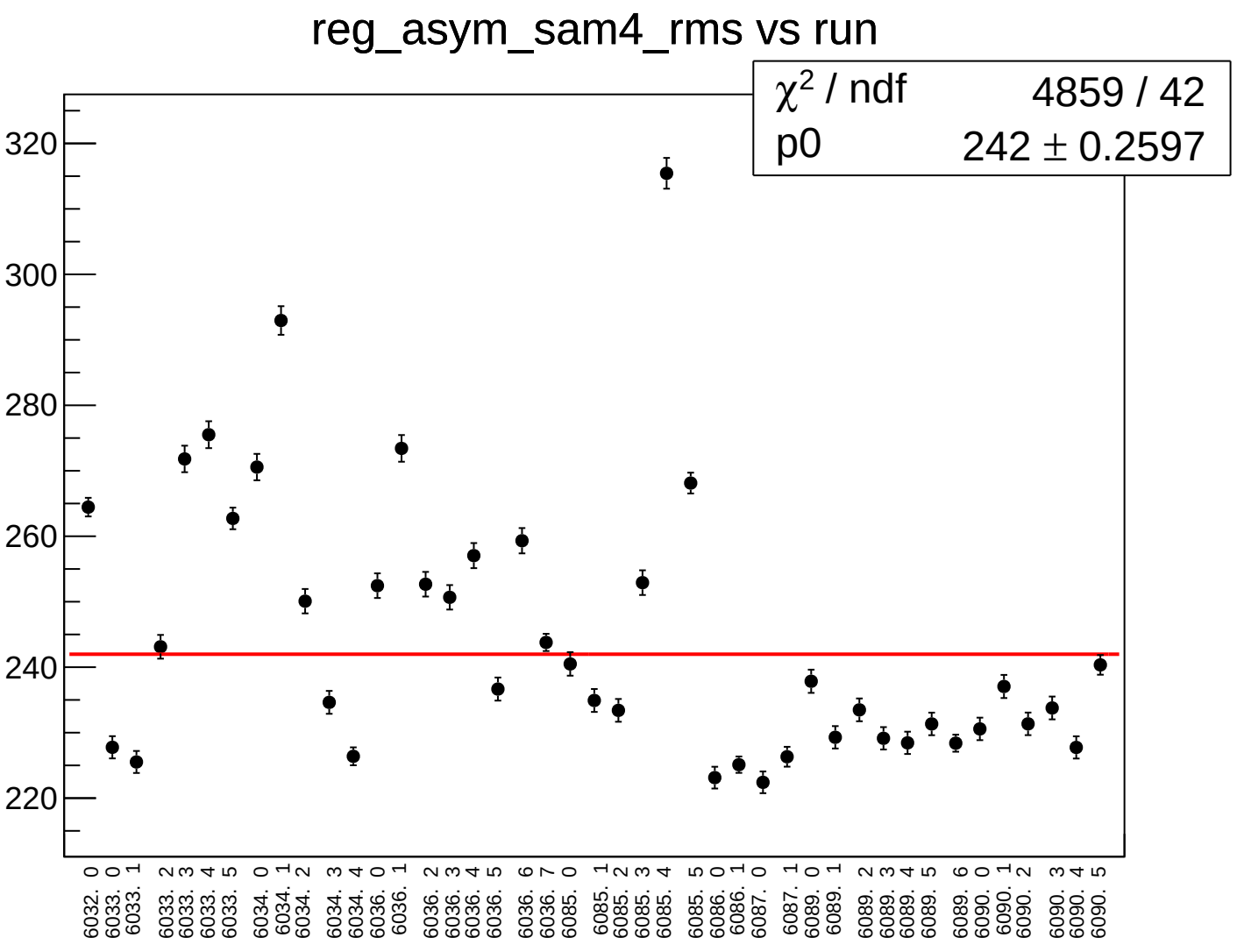

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.605e+04 / 42
p0 75.84 ± 0.08495
240
220
200
180
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

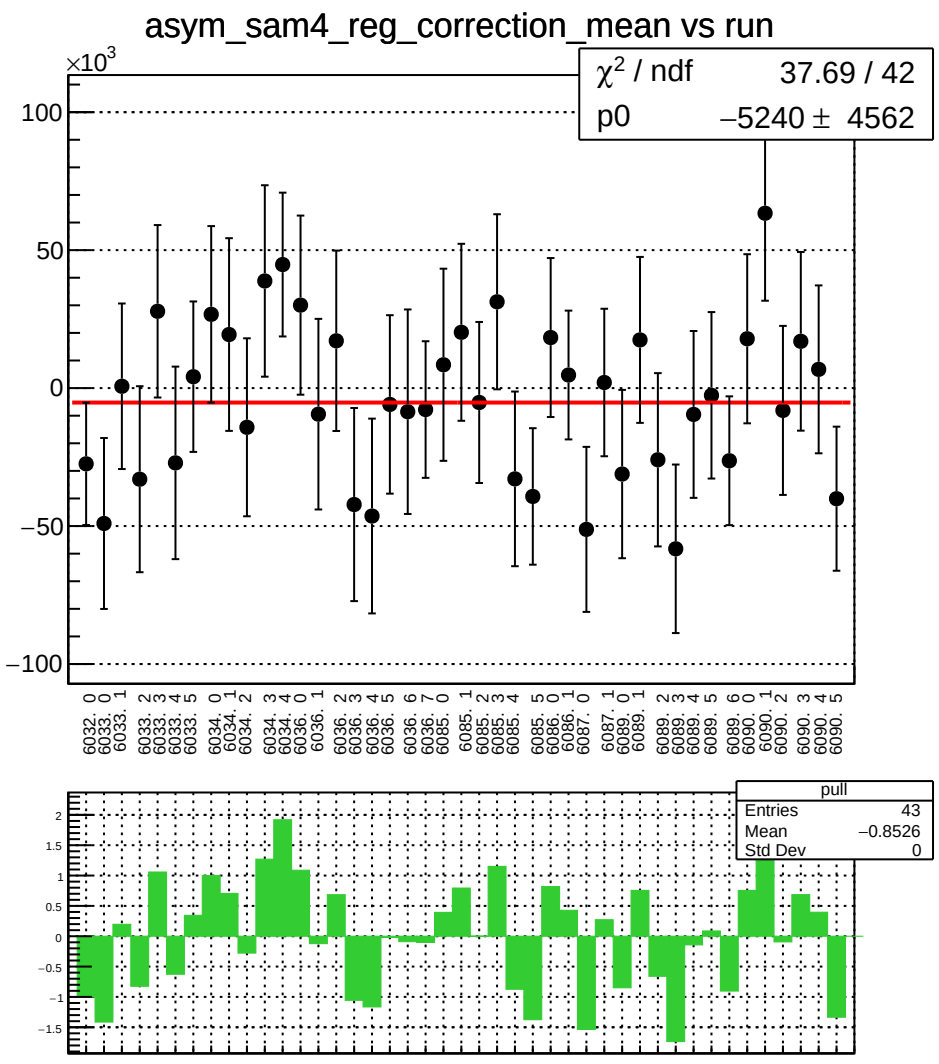

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.77 / 42
p0 8.805e−14 ± 6.078e−14
4
2
0
−2
−4
−6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 147.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.02608
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

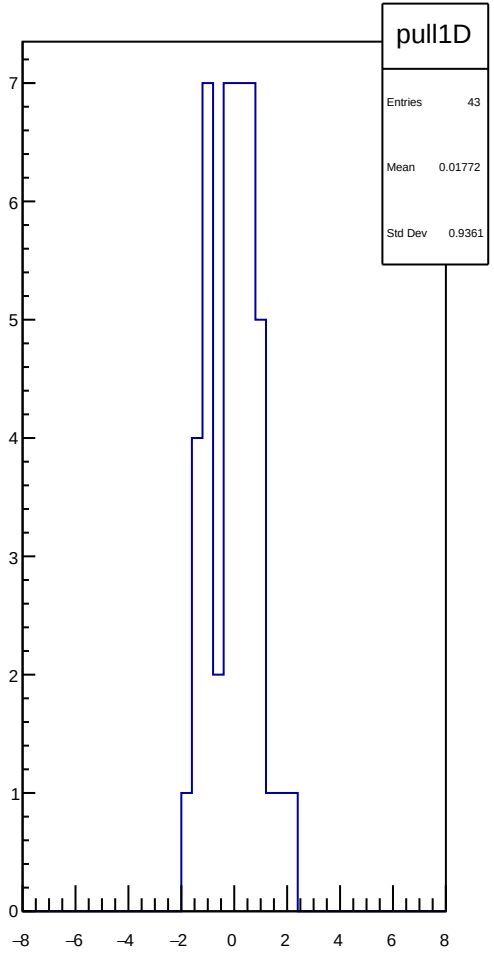

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.141e+05 / 42
p0 2.912e−11 ± 4.298e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

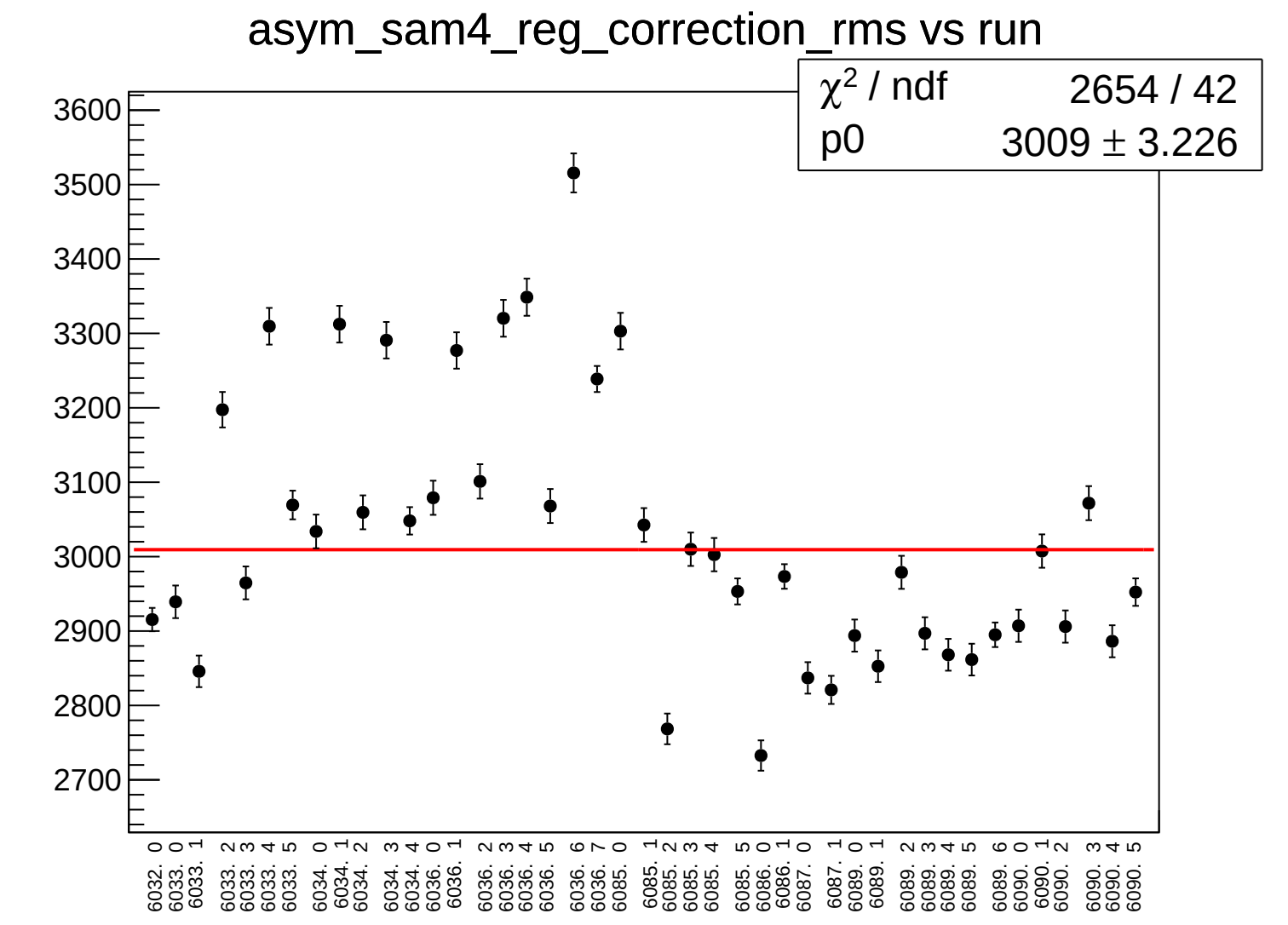

reg_asym_sam4_mean vs run
χ² / ndf 34.42 / 42
p0 −57.12 ± 367.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 358.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

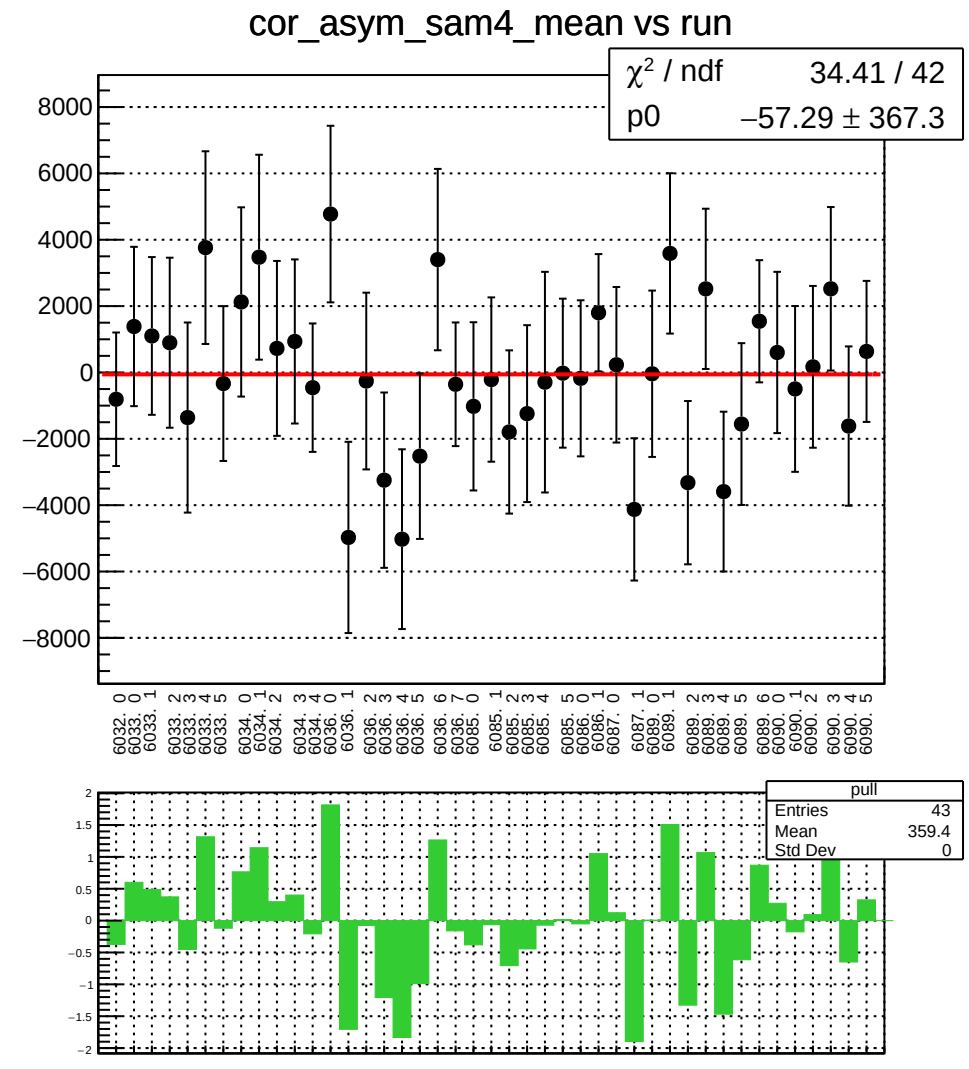

pull1D
Entries 43
Mean −0.002935
Std Dev 0.8946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

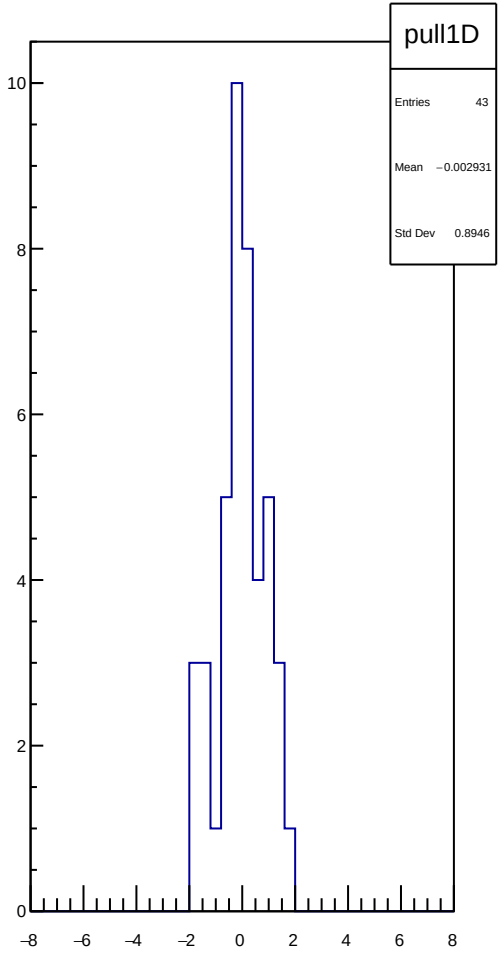

reg_asym_sam4_rms vs run
χ² / ndf 4859 / 42
p0 242 ± 0.2597
320
300
280
260
240
220
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

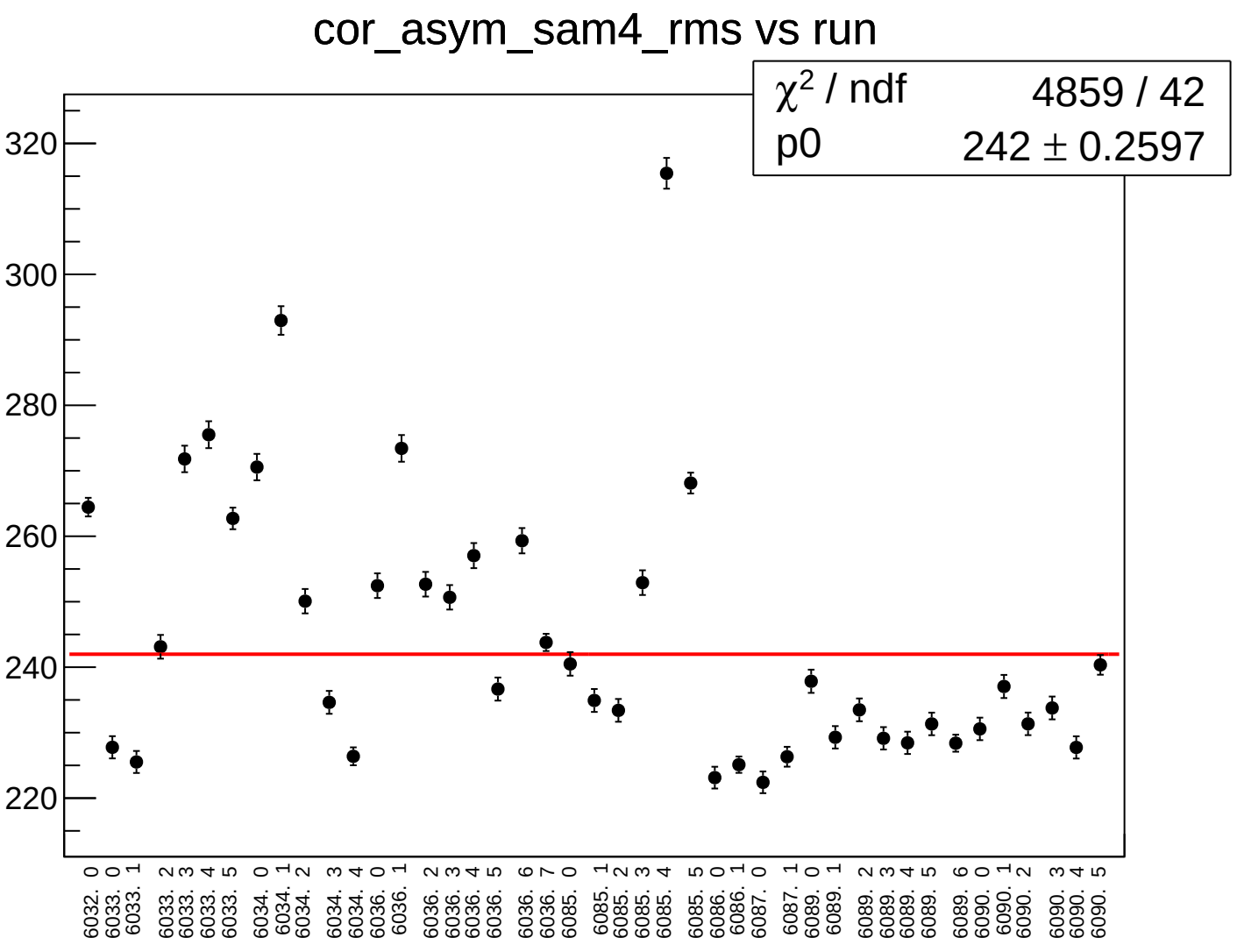

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 37.69 / 42
p0 −5240 ± 4562
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.8526
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

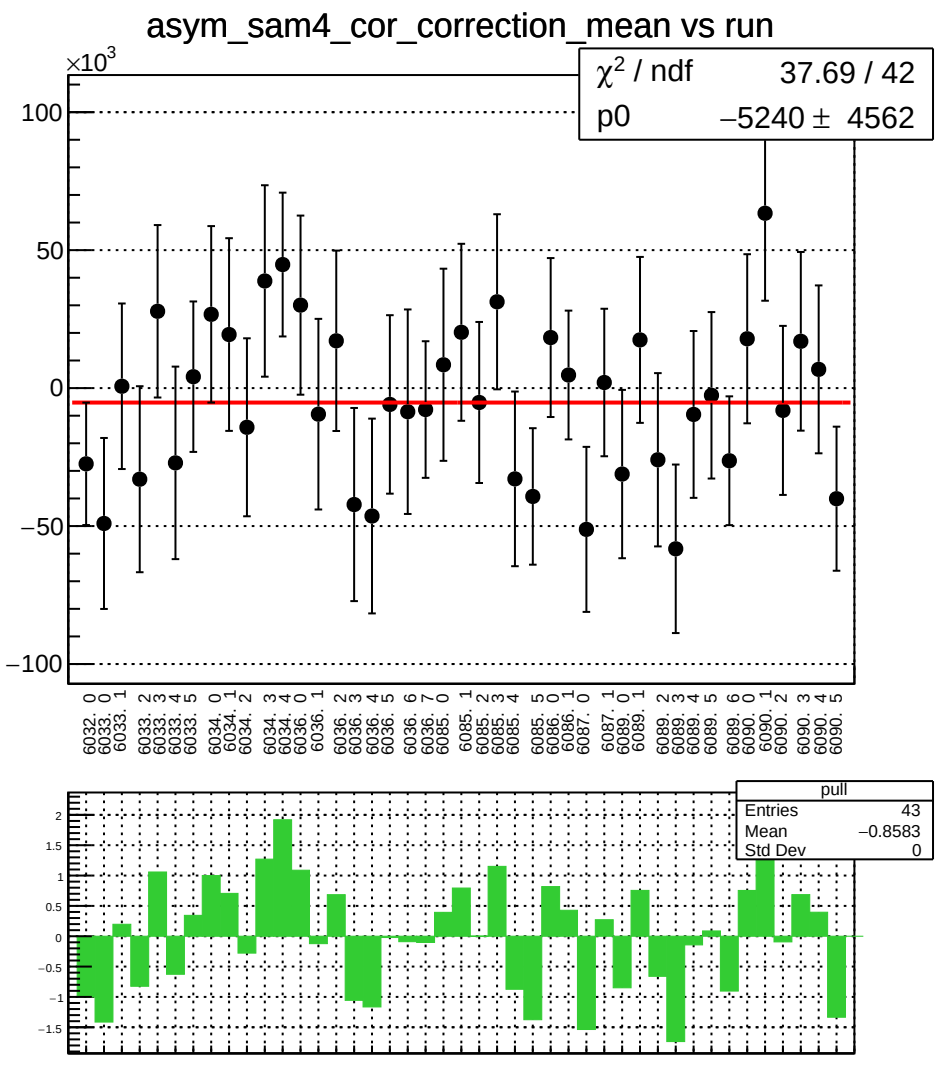

pull1D
Entries 43
Mean 0.01772
Std Dev 0.9361
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

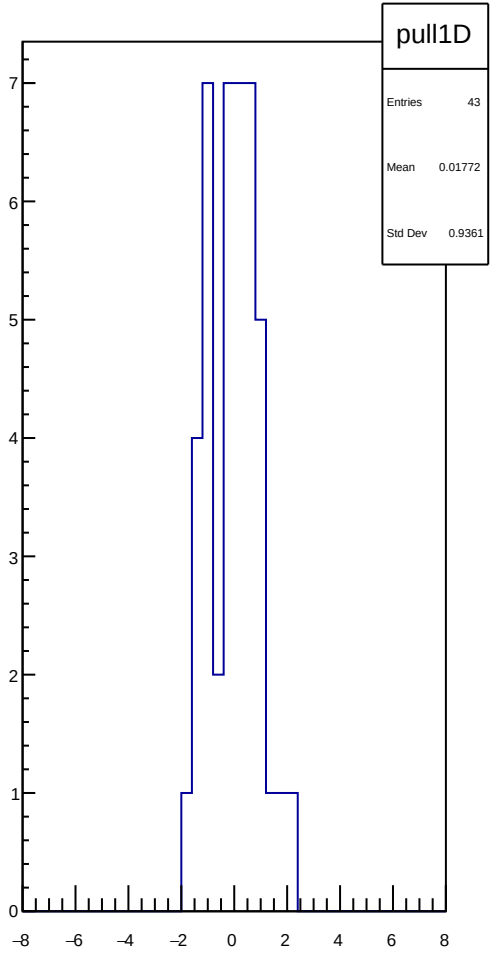

asym_sam4_reg_correction_rms vs run
χ² / ndf 2654 / 42
p0 3009 ± 3.226
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

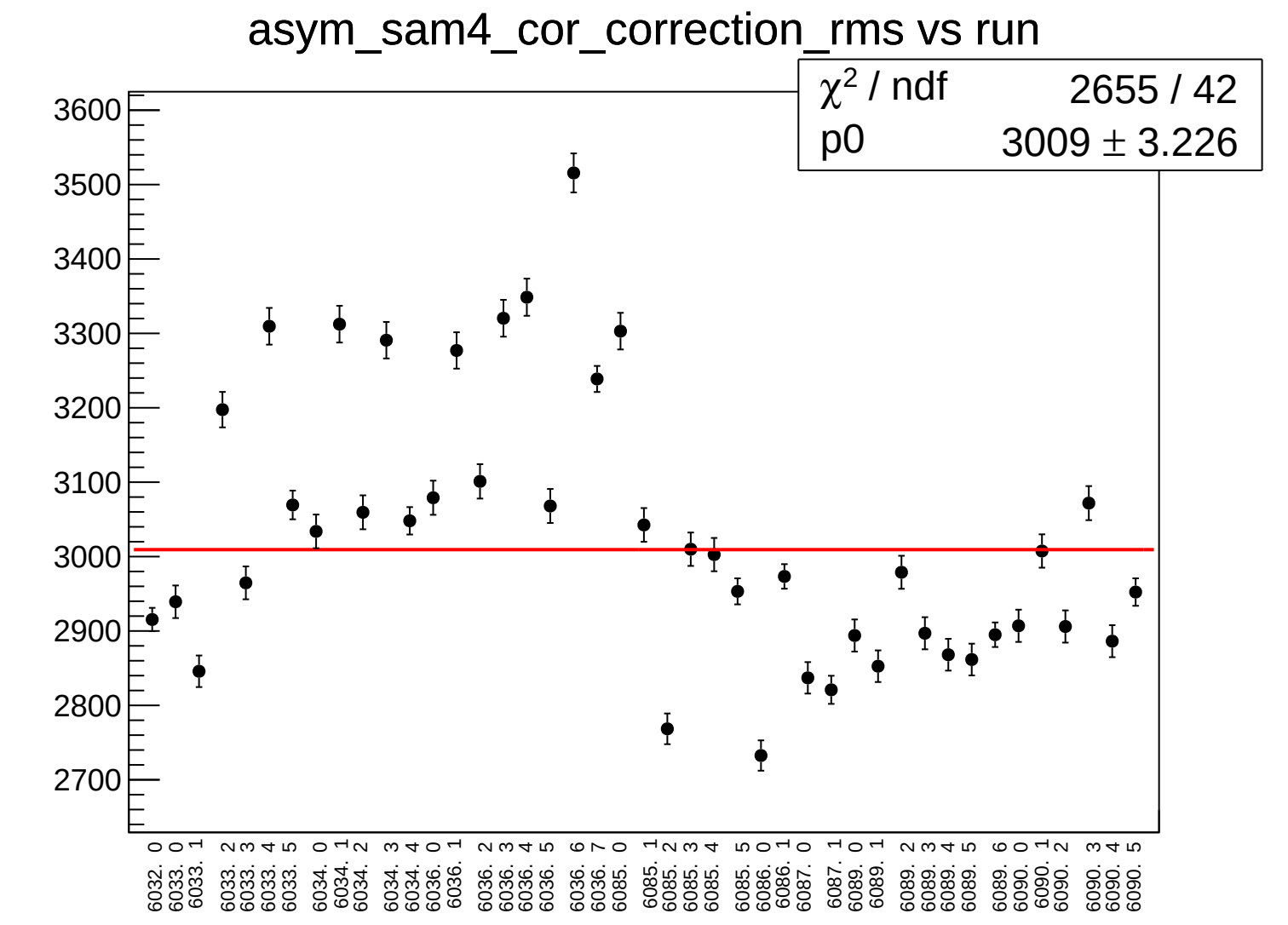

cor_asym_sam4_mean vs run
χ² / ndf 34.41 / 42
p0 −57.29 ± 367.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 359.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

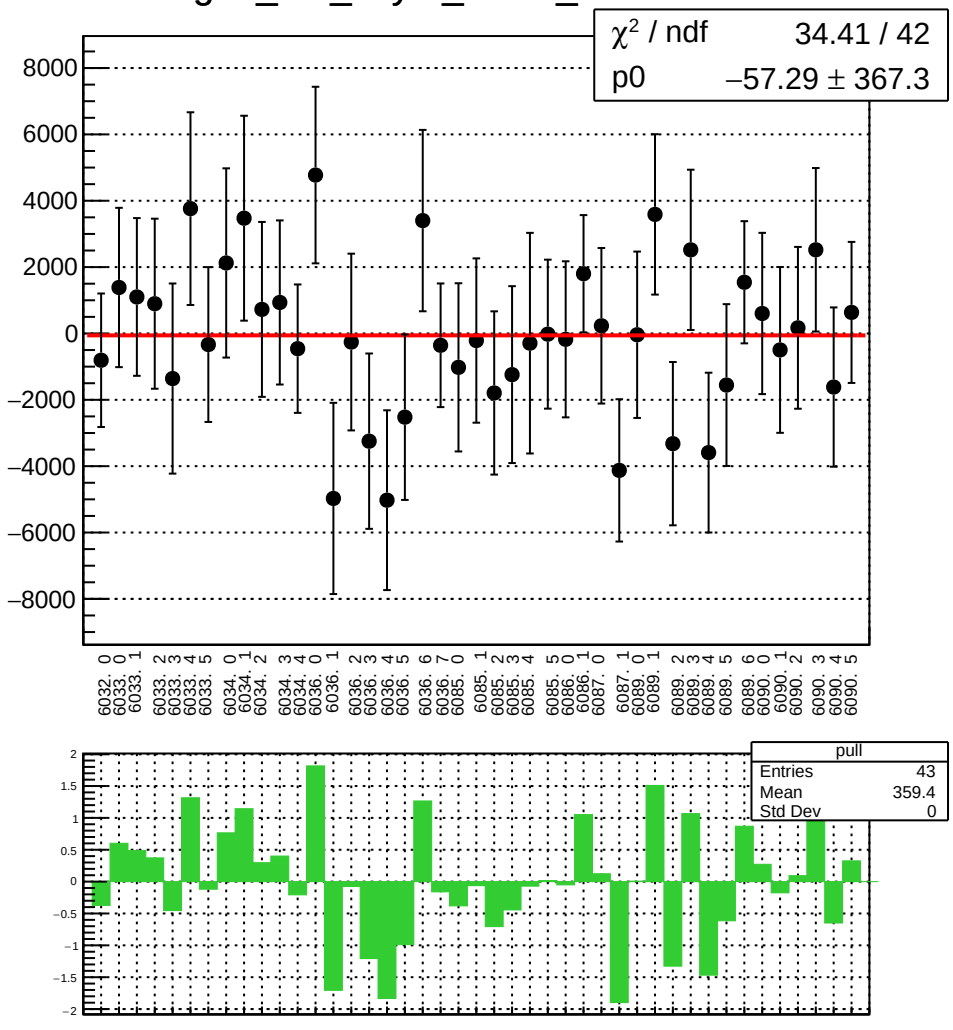

pull1D
Entries 43
Mean −0.002931
Std Dev 0.8946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

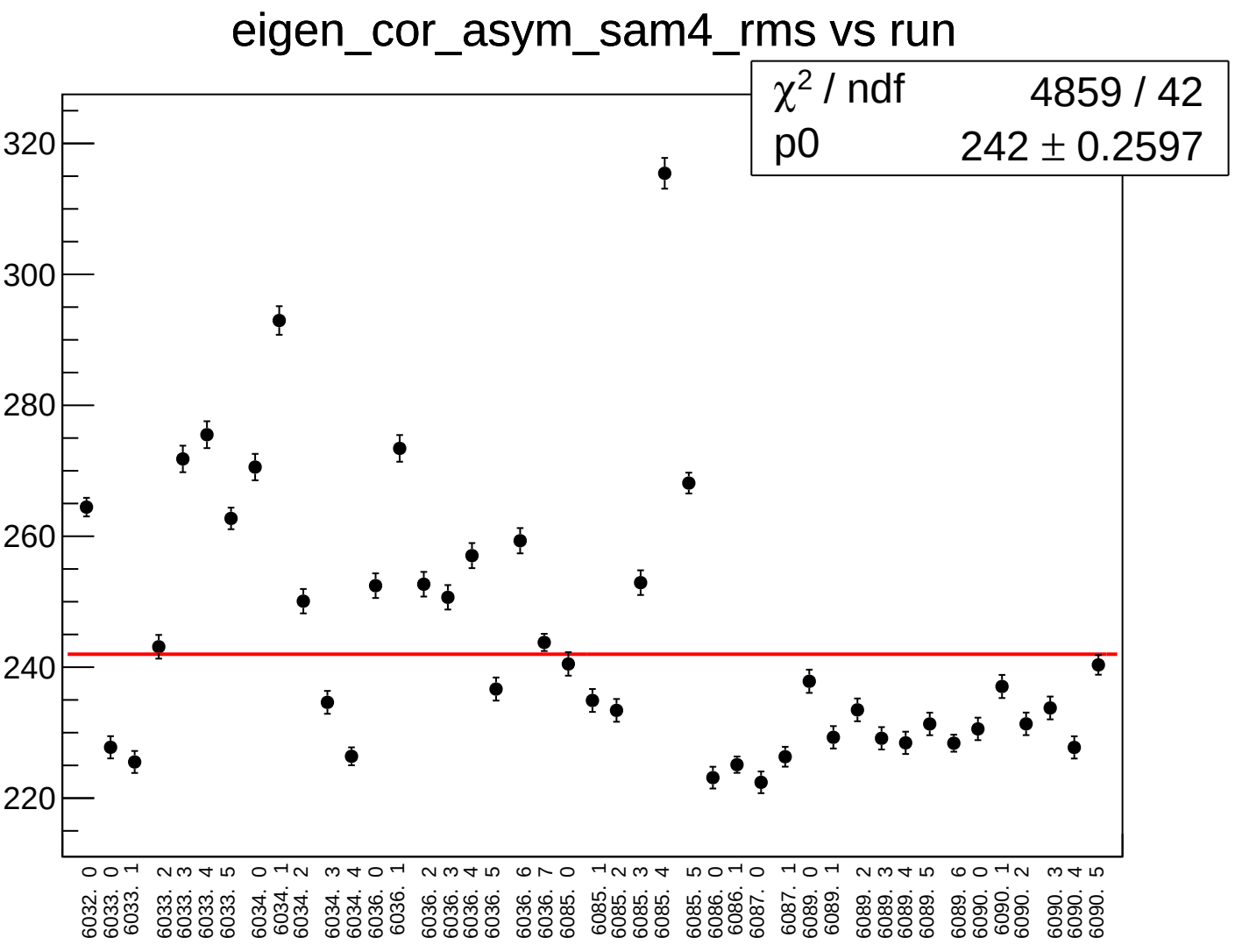

cor_asym_sam4_rms vs run
χ² / ndf 4859 / 42
p0 242 ± 0.2597
320
300
280
260
240
220
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

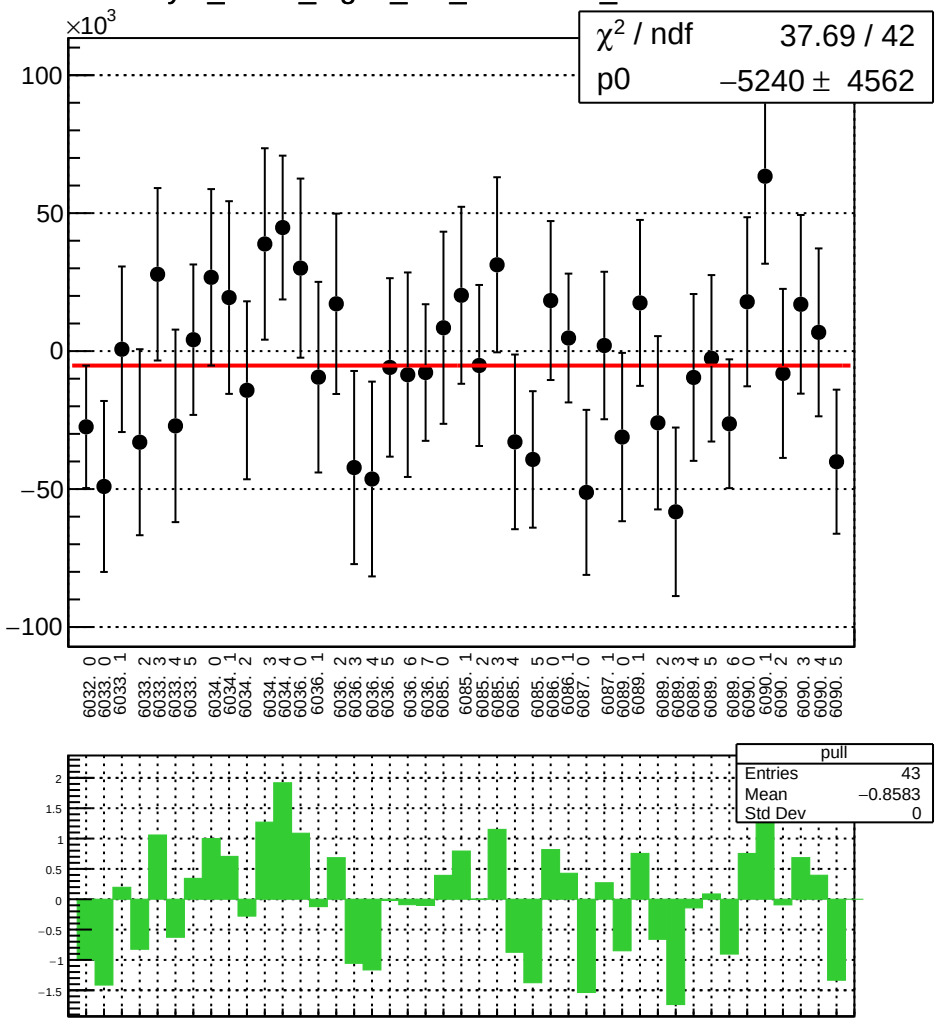

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 37.69 / 42
p0 −5240 ± 4562
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.8583
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

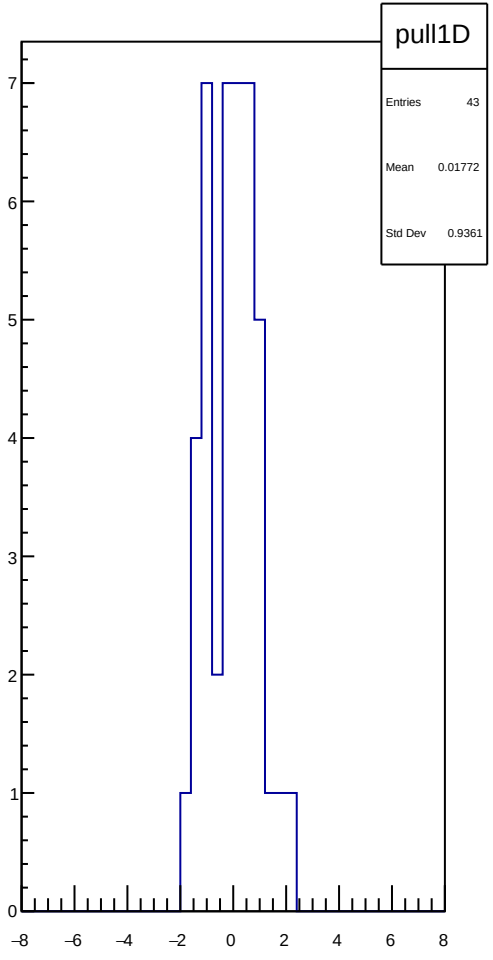

pull1D
Entries 43
Mean 0.01772
Std Dev 0.9361
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

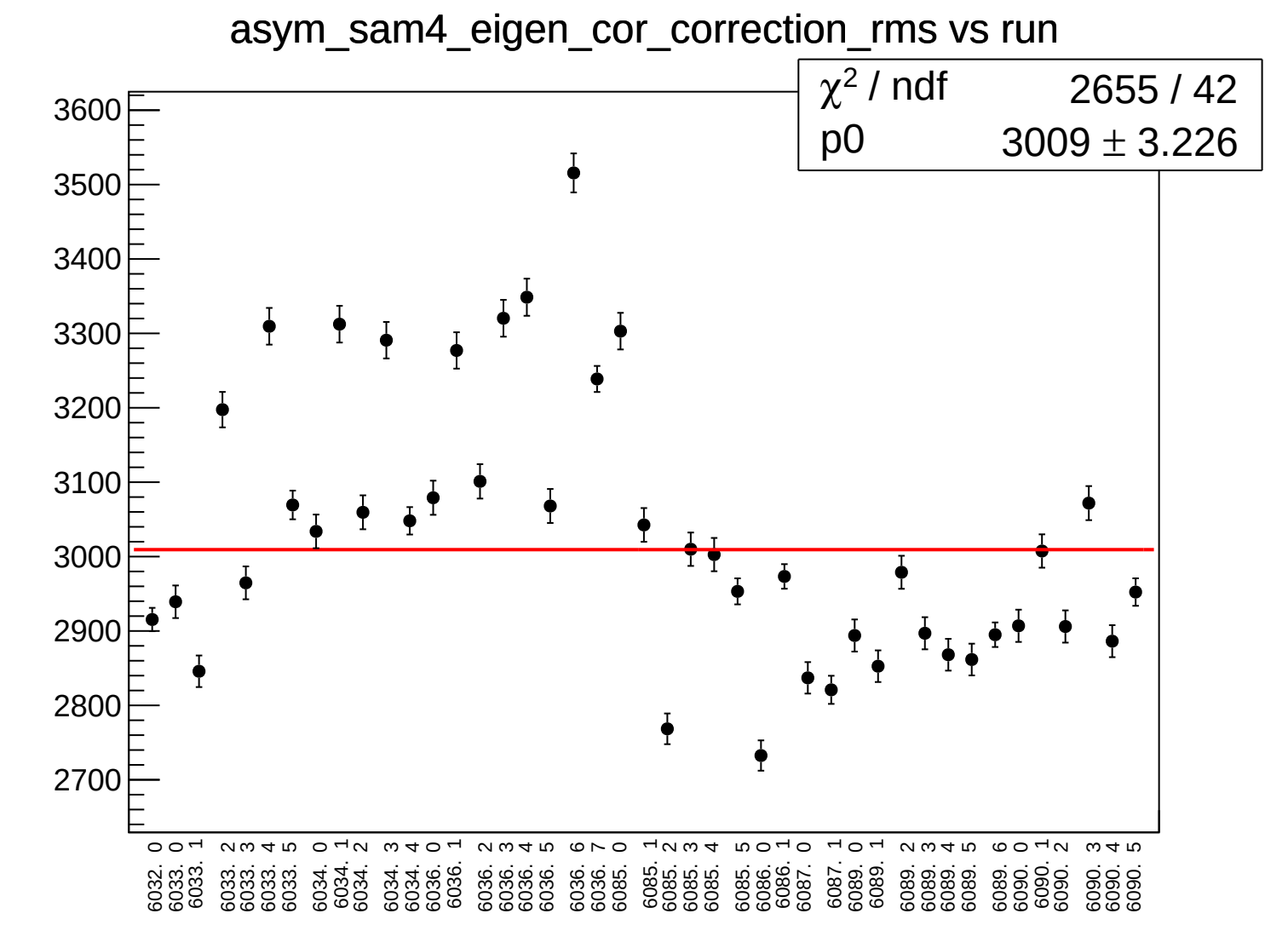

asym_sam4_cor_correction_rms vs run
χ² / ndf 2655 / 42
p0 3009 ± 3.226
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

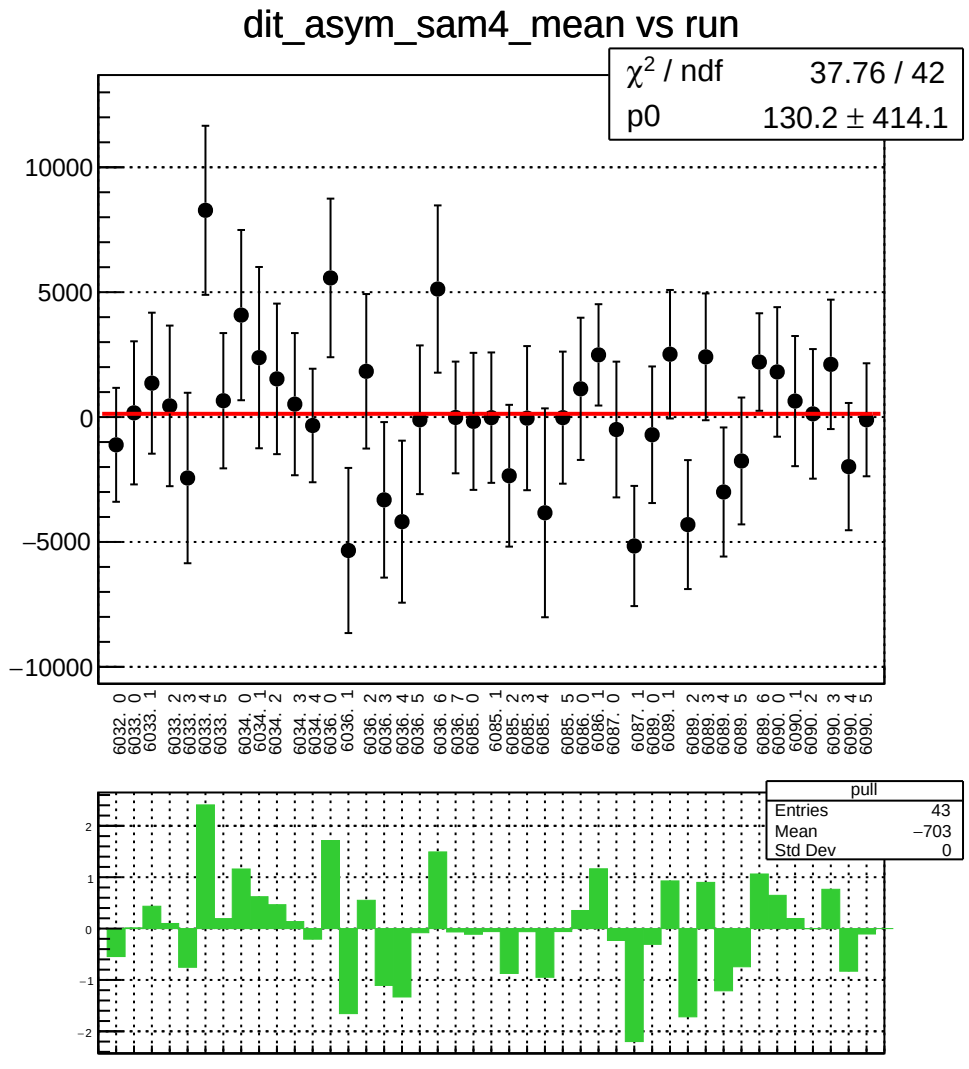

eigen_cor_asym_sam4_mean vs run
χ² / ndf 34.41 / 42
p0 −57.29 ± 367.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 359.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002931
Std Dev 0.8946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

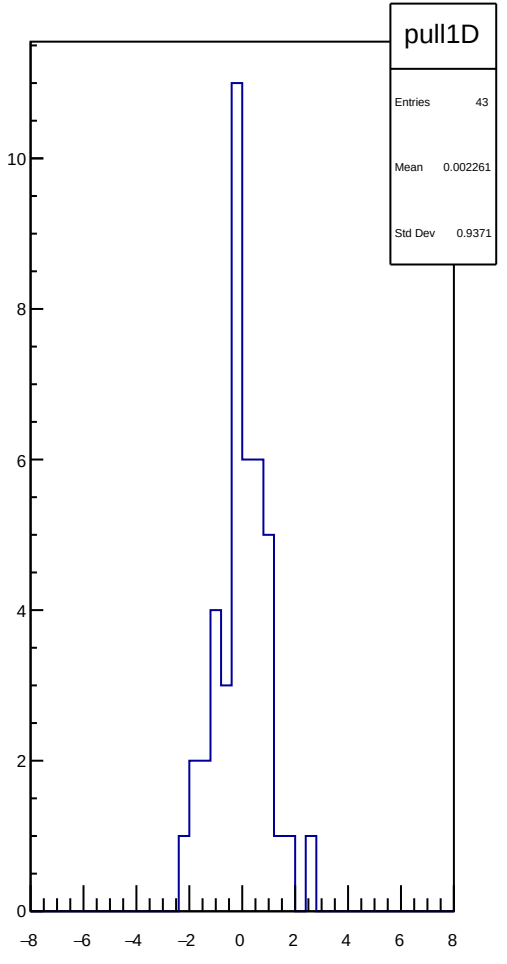

eigen_cor_asym_sam4_rms vs run
χ² / ndf 4859 / 42
p0 242 ± 0.2597
320
300
280
260
240
220
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

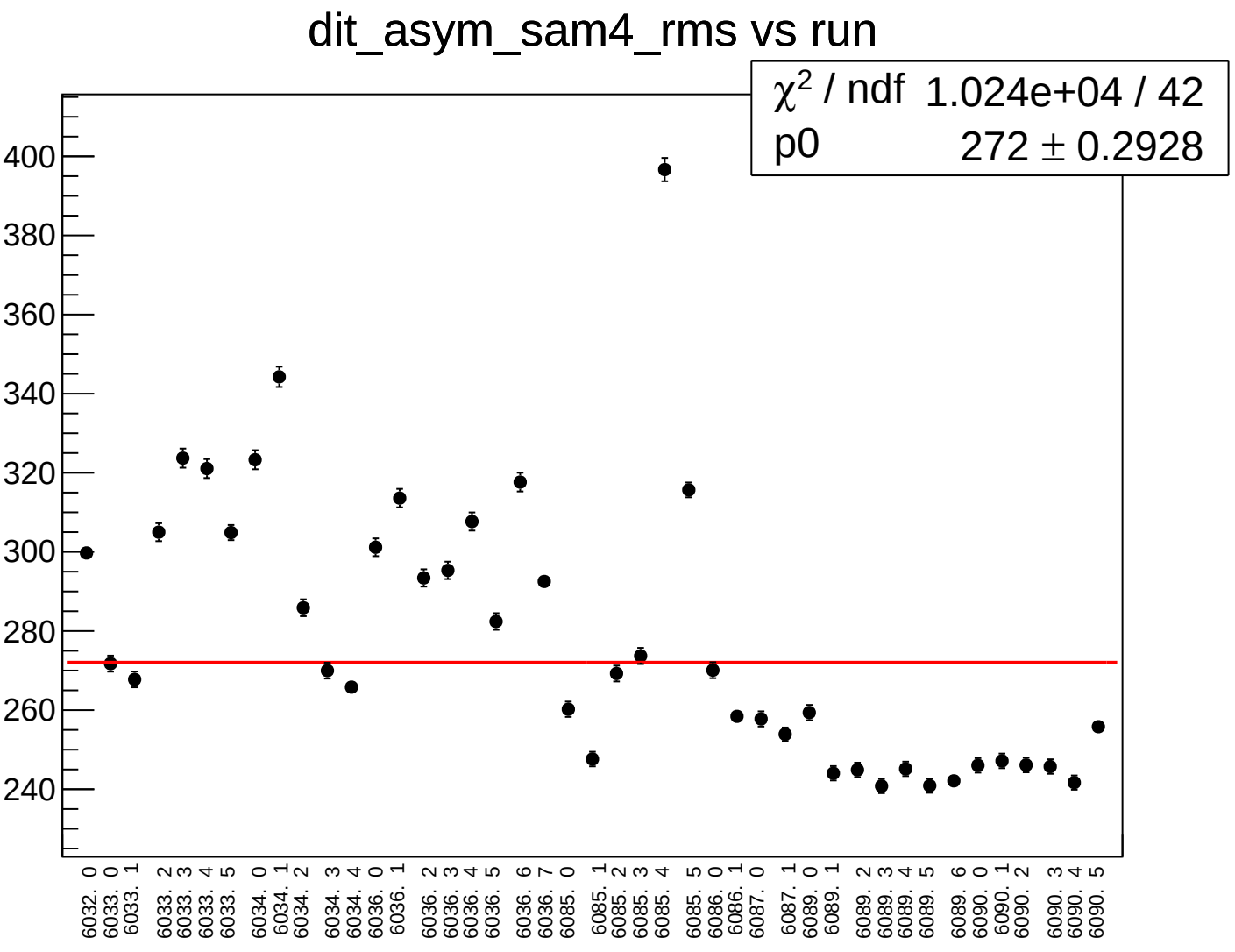

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 37.69 / 42
p0 −5240 ± 4562
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.8583
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

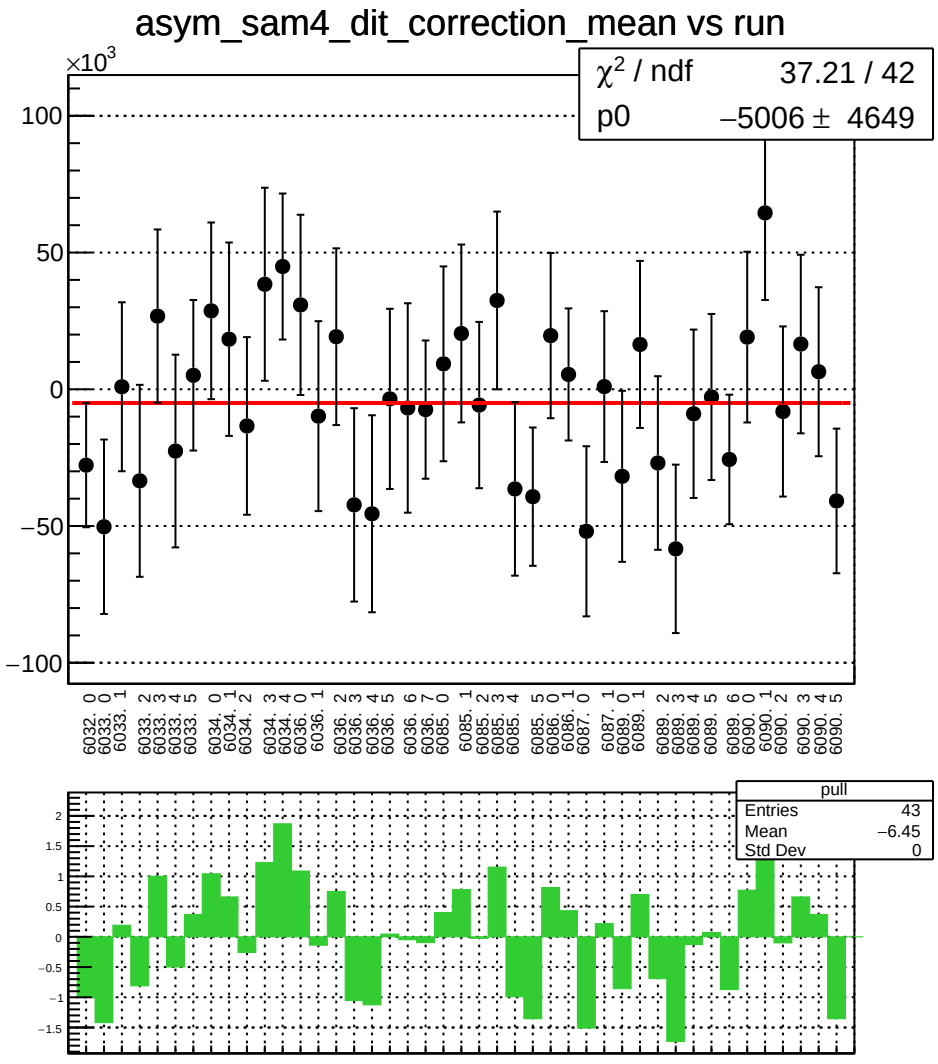

pull1D
Entries 43
Mean 0.01772
Std Dev 0.9361
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

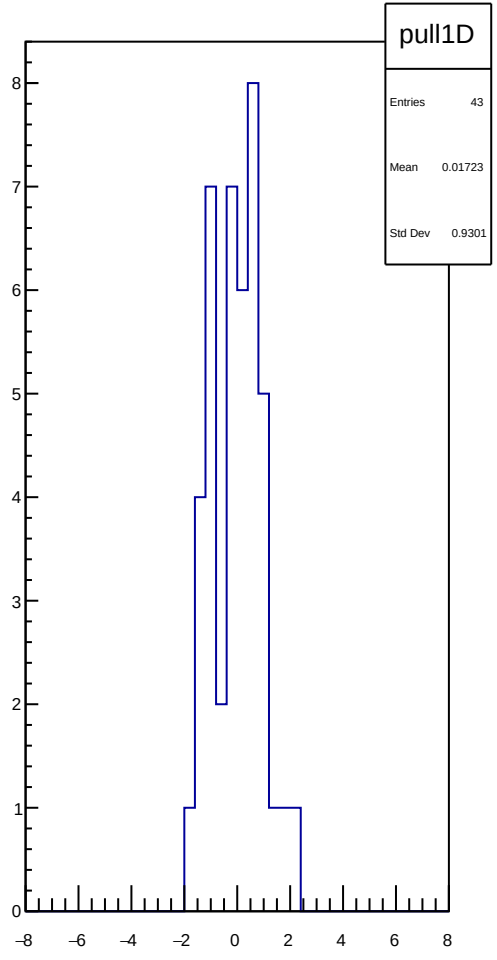

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2655 / 42
p0 3009 ± 3.226
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

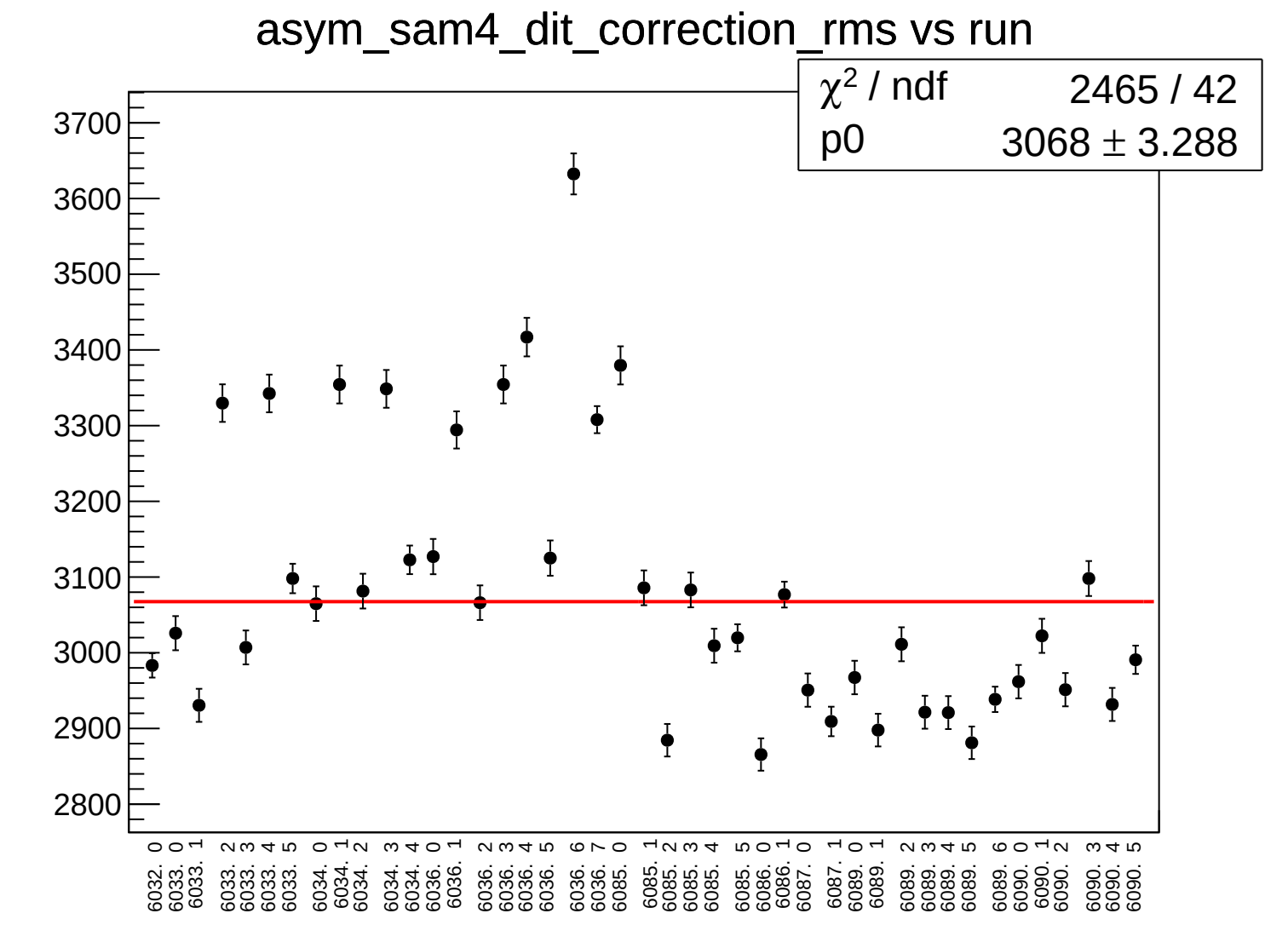

dit_asym_sam4_mean vs run
χ² / ndf 37.76 / 42
p0 130.2 ± 414.1
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −703
Std Dev 0
2
1
0
−1
−2

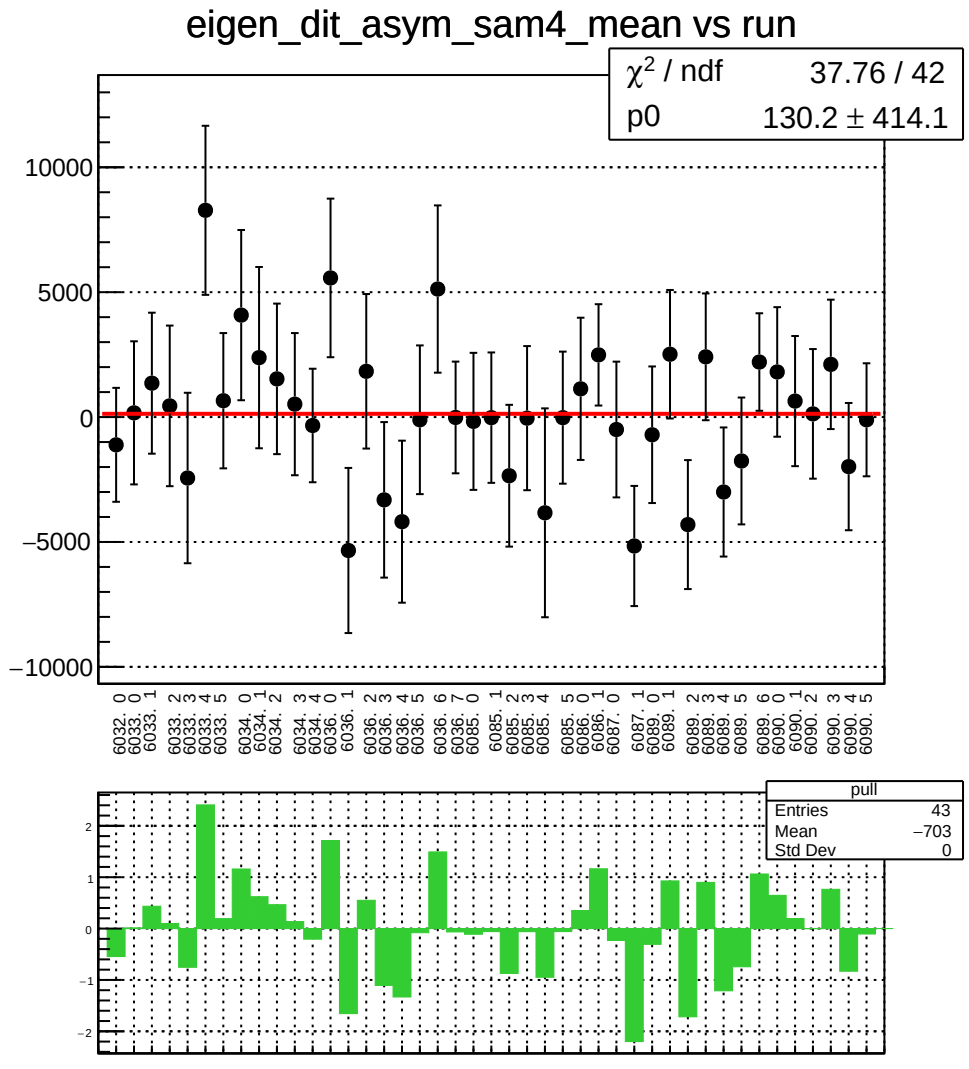

pull1D
Entries 43
Mean 0.002261
Std Dev 0.9371
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

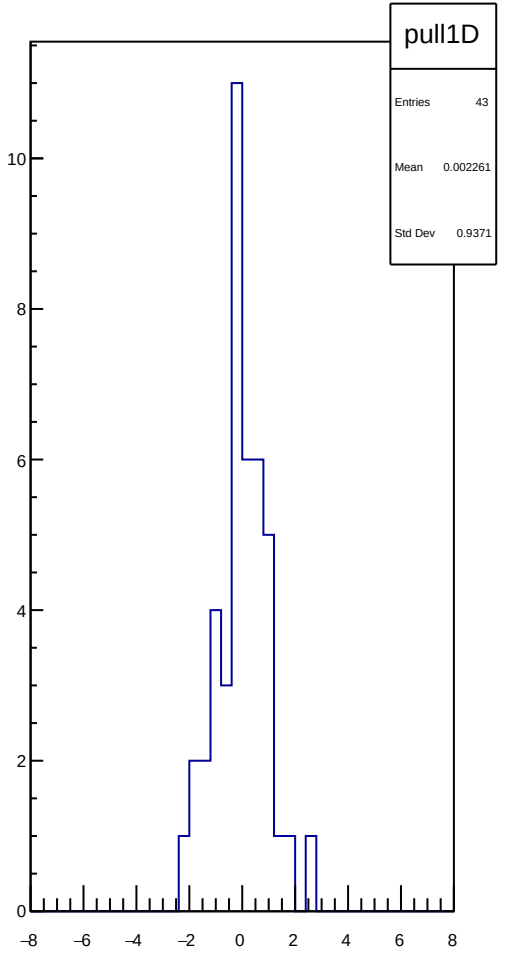

dit_asym_sam4_rms vs run
χ² / ndf 1.024e+04 / 42
p0 272 ± 0.2928
400
380
360
340
320
300
280
260
240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

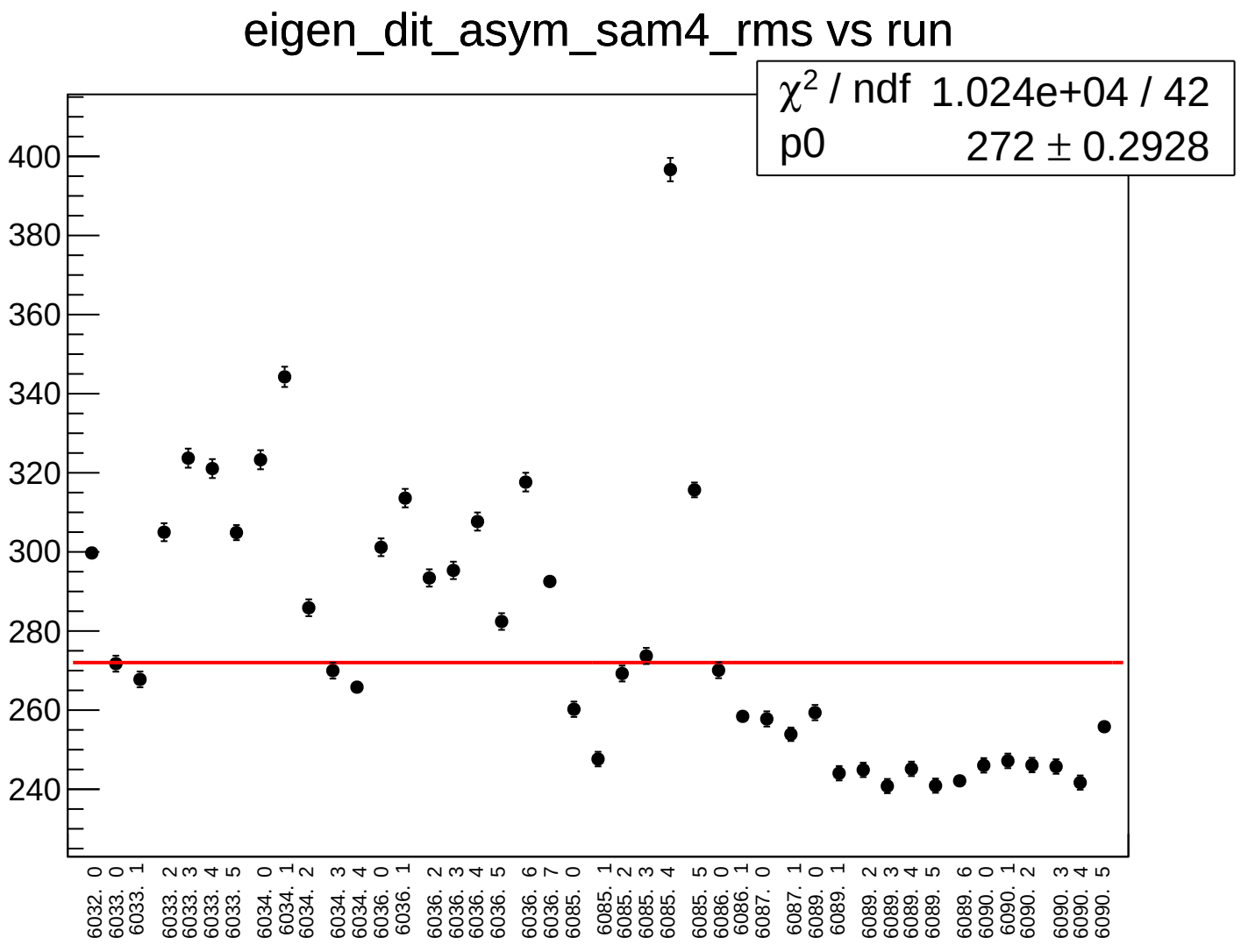

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 37.21 / 42
p0 −5006 ± 4649
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

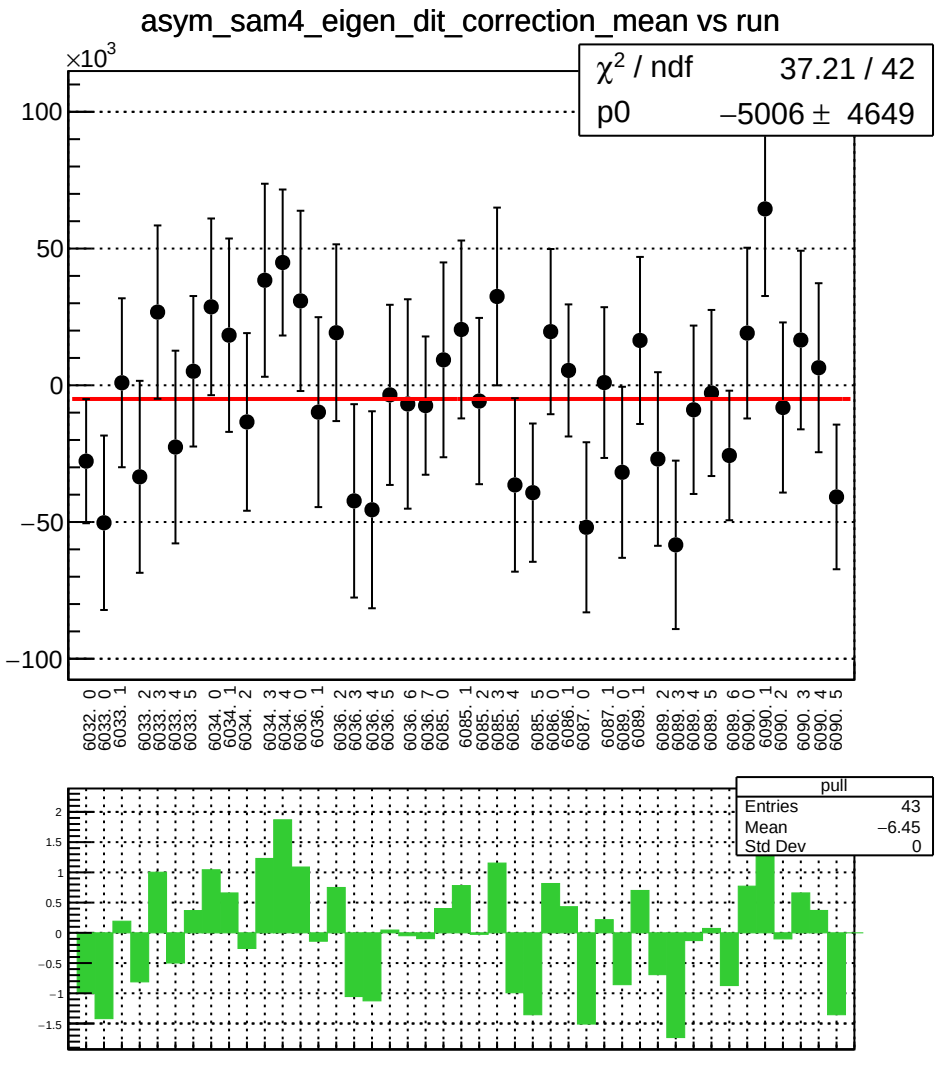

pull1D
Entries 43
Mean 0.01723
Std Dev 0.9301
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

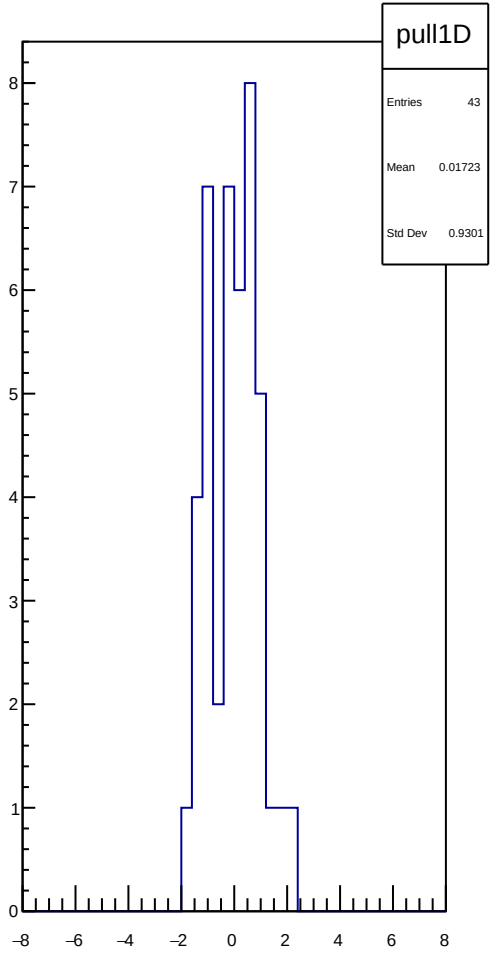

asym_sam4_dit_correction_rms vs run
χ² / ndf 2465 / 42
p0 3068 ± 3.288
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

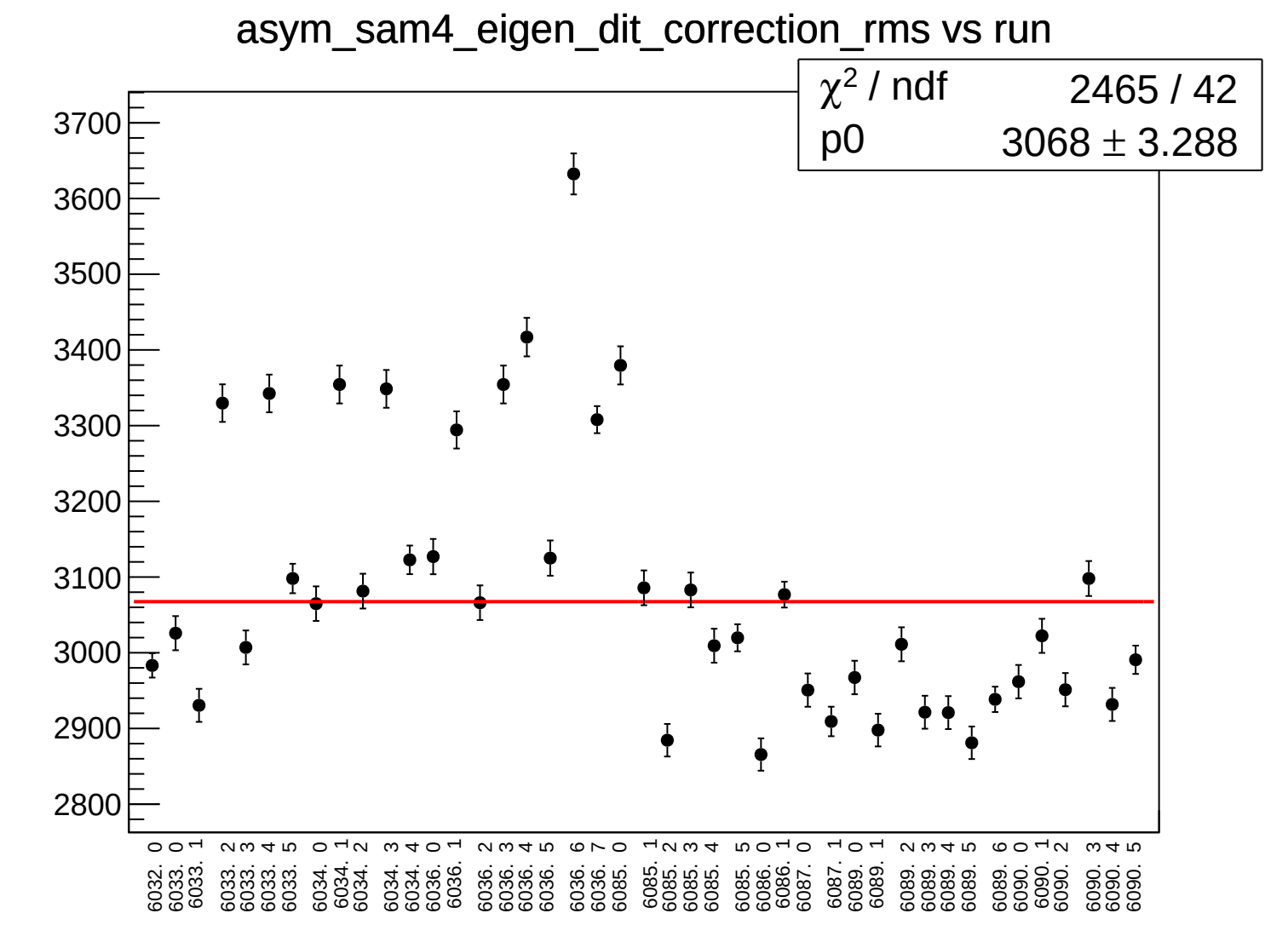

eigen_dit_asym_sam4_mean vs run
χ² / ndf 37.76 / 42
p0 130.2 ± 414.1
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −703
Std Dev 0
2
1
0
−1
−2

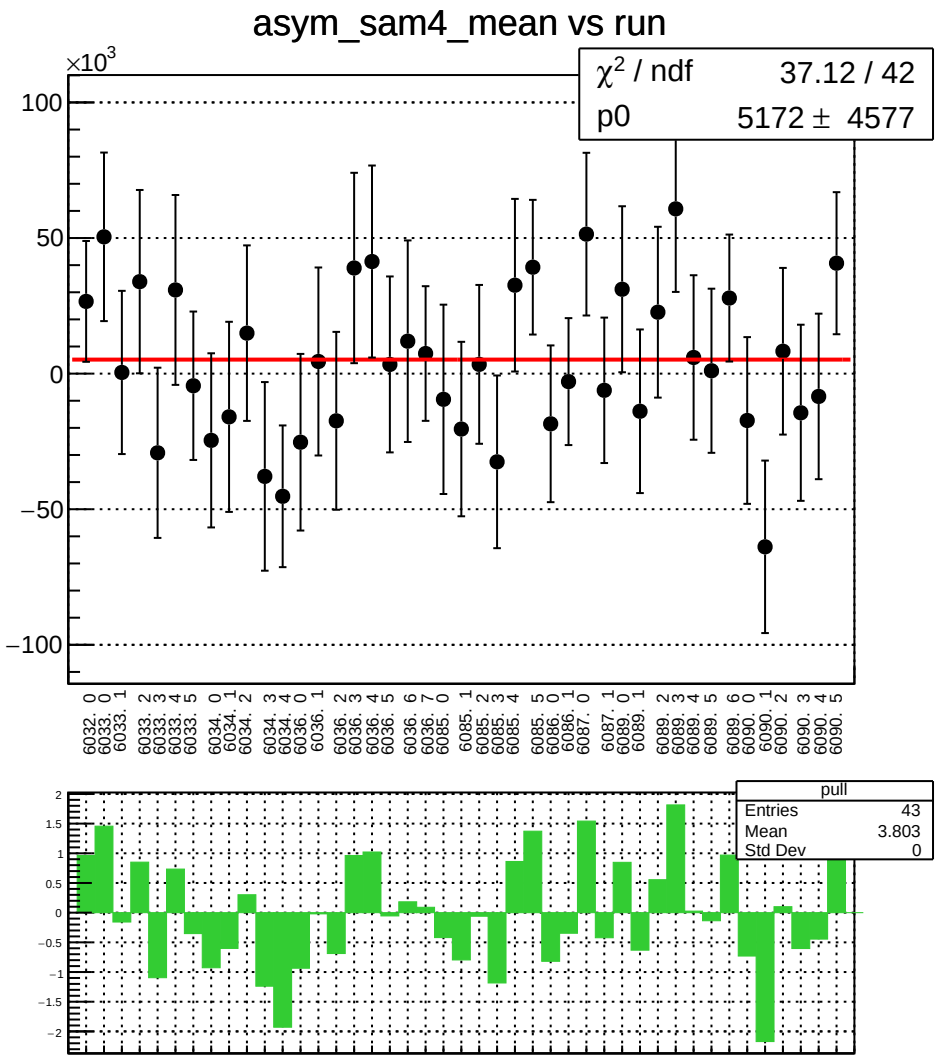

pull1D
Entries 43
Mean 0.002261
Std Dev 0.9371
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

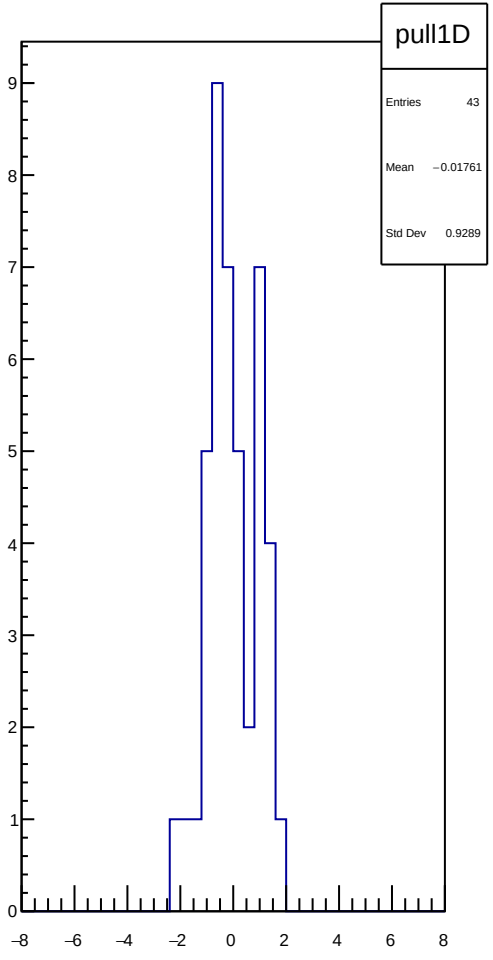

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.024e+04 / 42
p0 272 ± 0.2928
400
380
360
340
320
300
280
260
240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

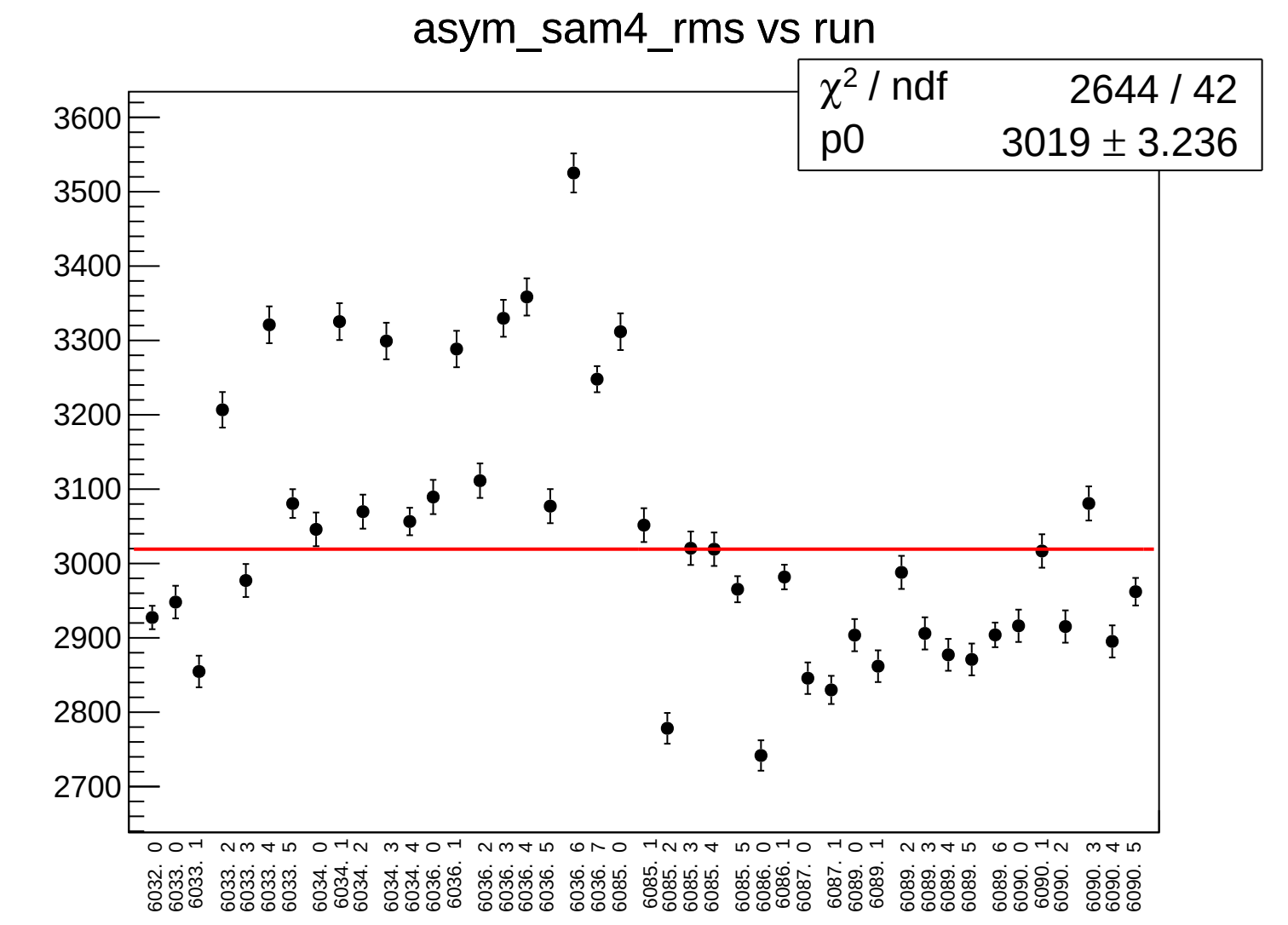

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 37.21 / 42
p0 −5006 ± 4649
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

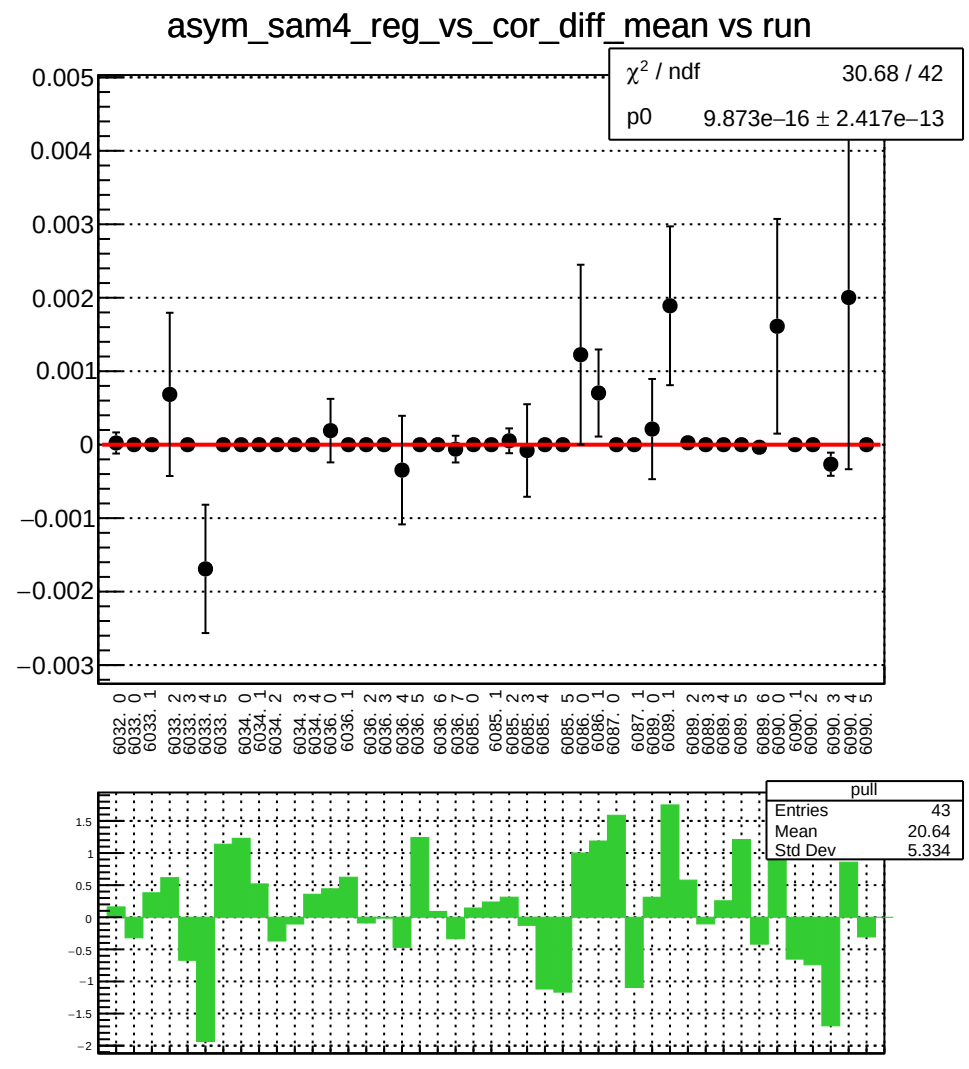

pull1D
Entries 43
Mean 0.01723
Std Dev 0.9301
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

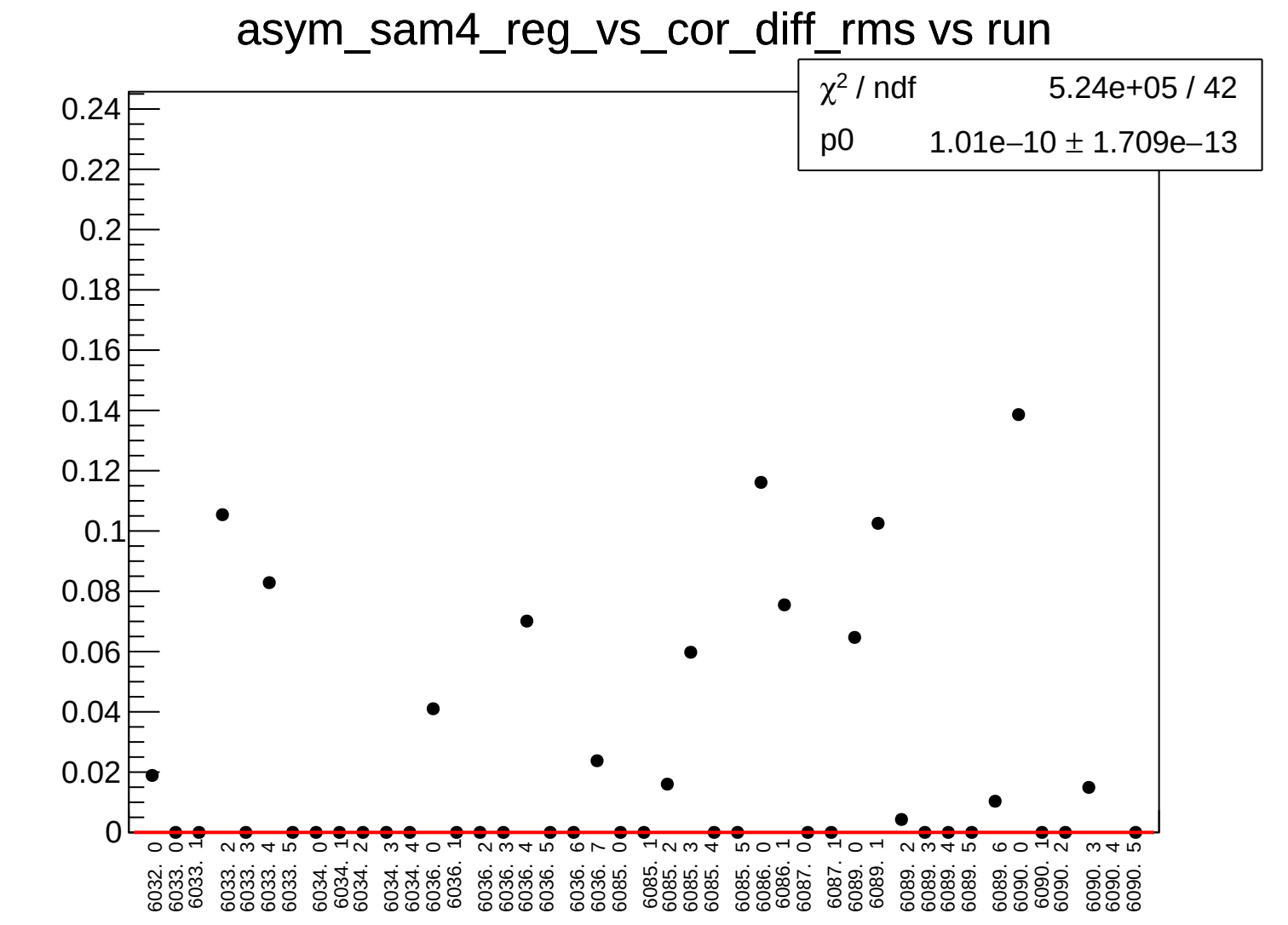

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2465 / 42
p0 3068 ± 3.288
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

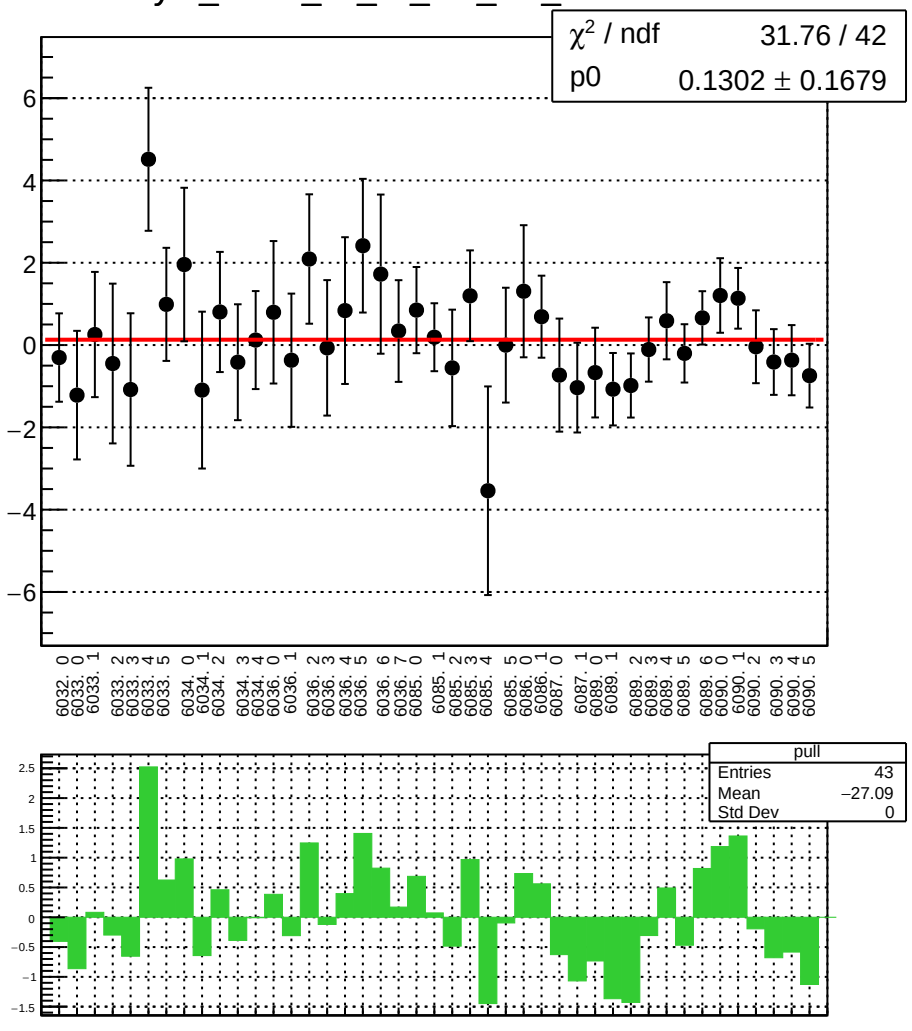

asym_sam4_mean vs run
×10^3
χ^2 / ndf 37.12 / 42
p0 5172 ± 4577
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.803
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

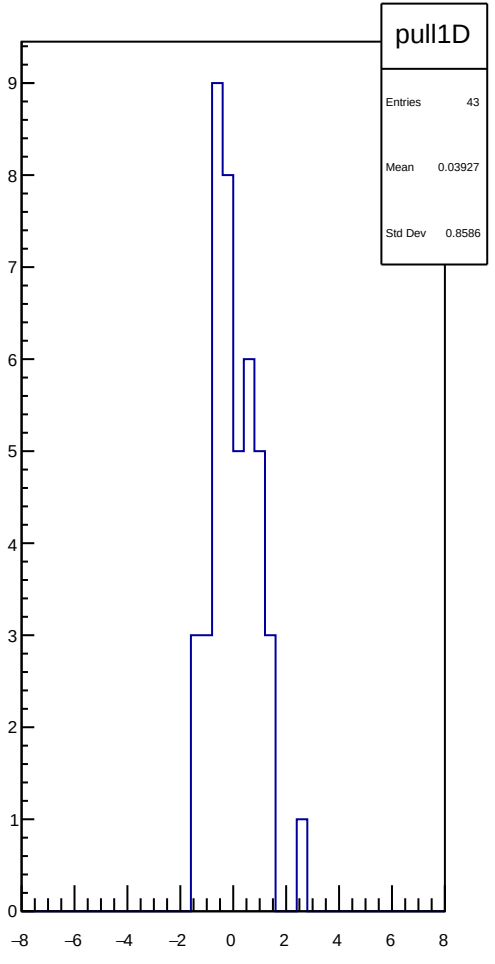

pull1D
Entries 43
Mean −0.01761
Std Dev 0.9289
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

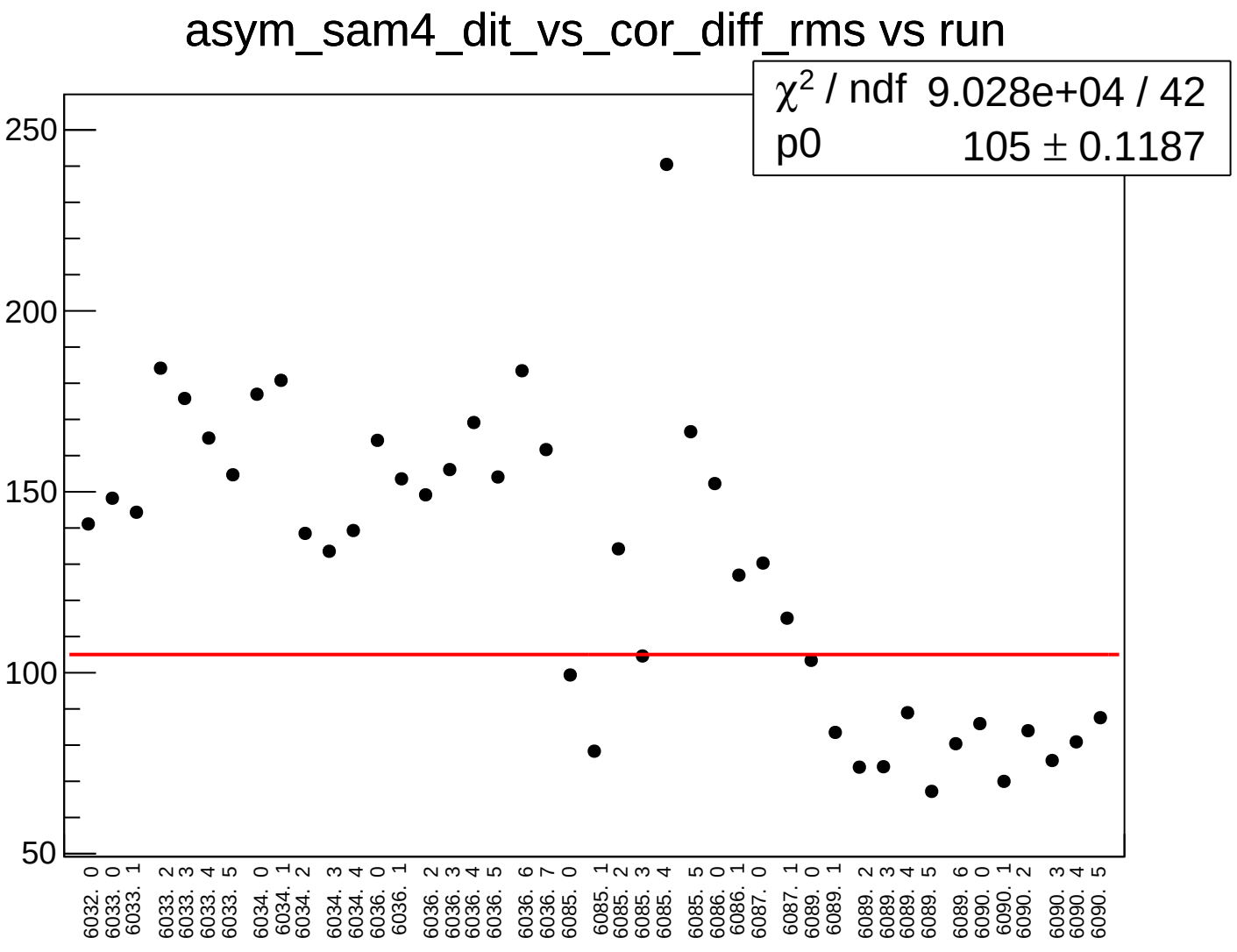

asym_sam4_rms vs run
χ² / ndf 2644 / 42
p0 3019 ± 3.236
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

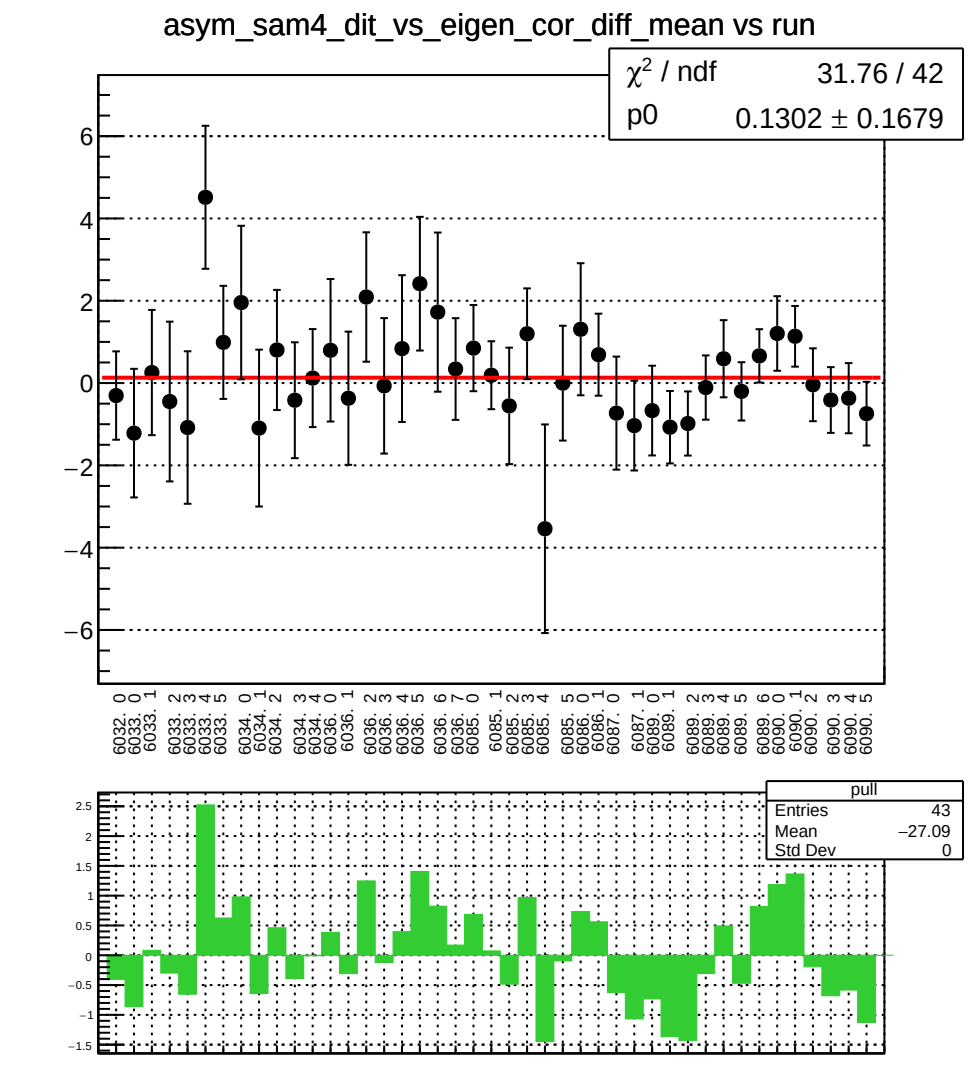

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 30.68 / 42
p0 9.873e−16 ± 2.417e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.64
Std Dev 5.334
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1306
Std Dev 0.8345
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

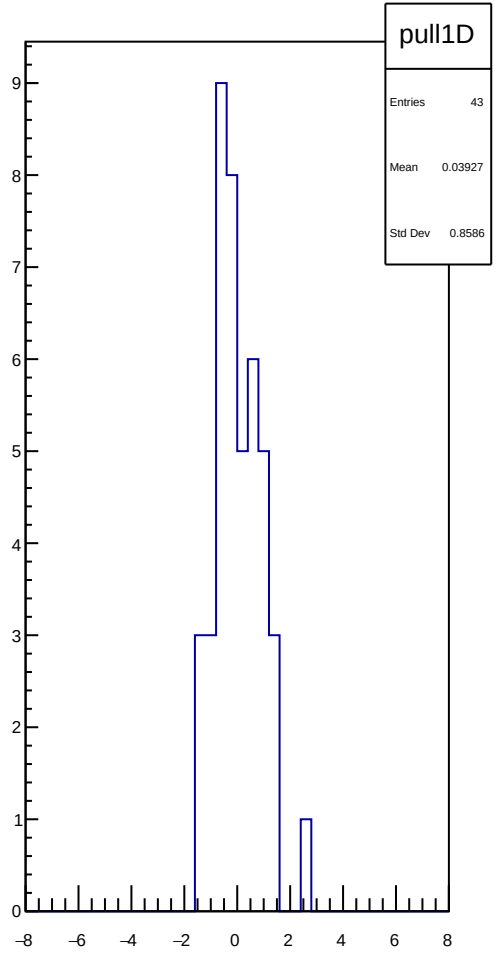

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 5.24e+05 / 42
p0 1.01e−10 ± 1.709e−13
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

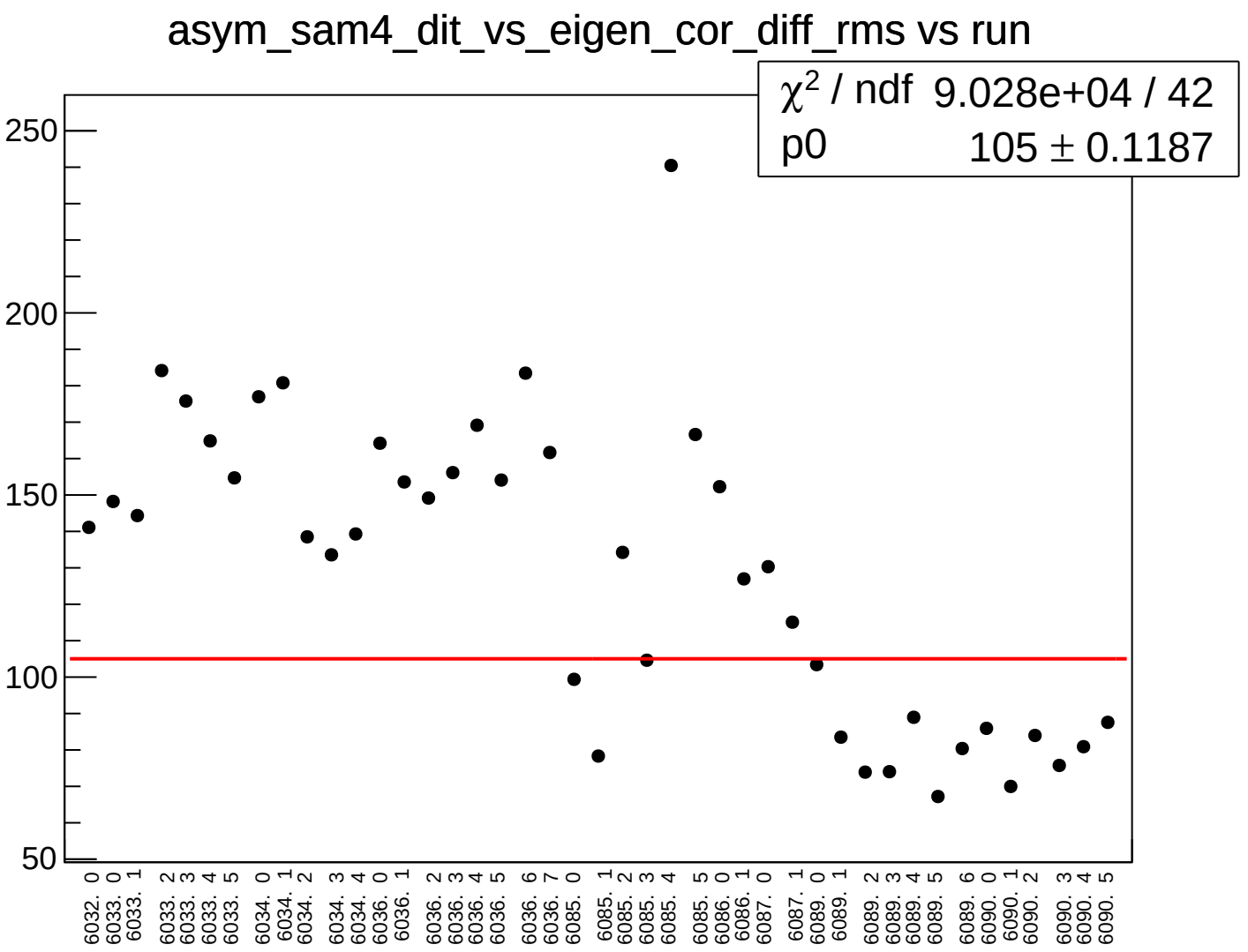

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 31.76 / 42
p0 0.1302 ± 0.1679
pull
Entries 43
Mean −27.09
Std Dev 0

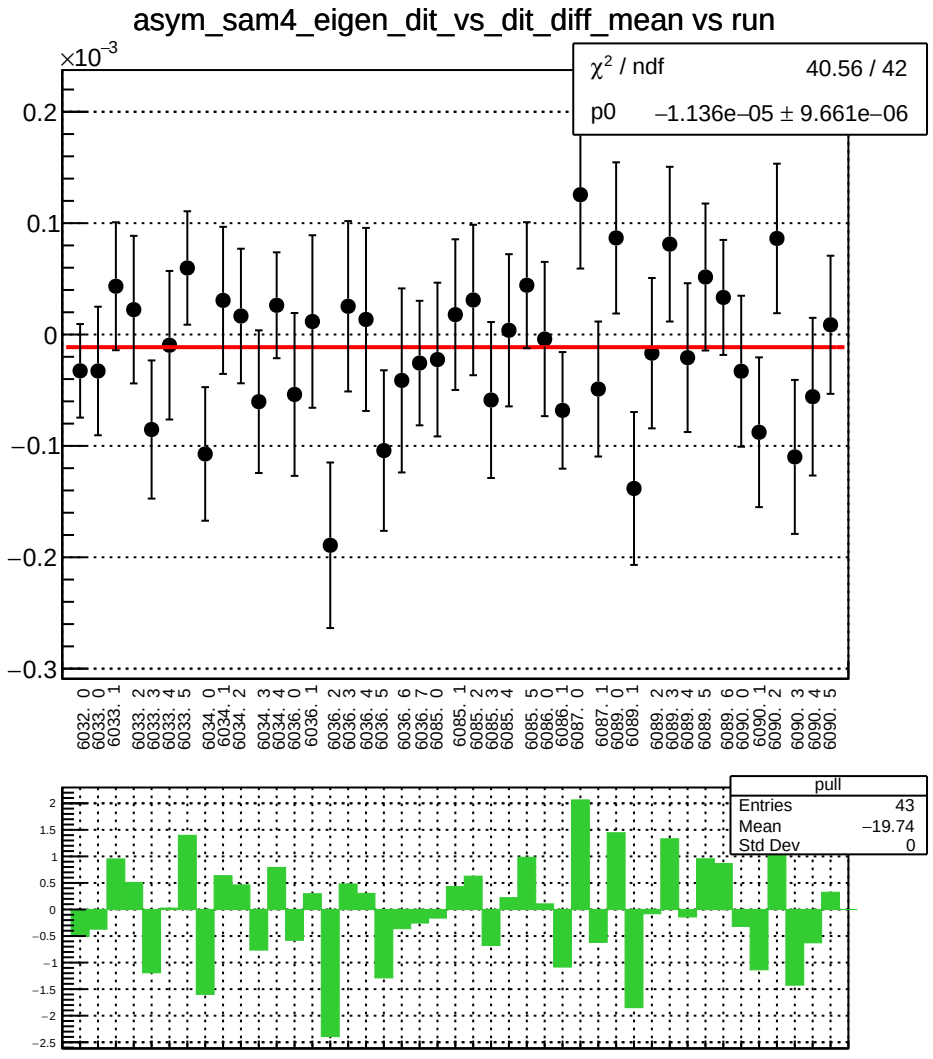

pull1D
Entries 43
Mean 0.03927
Std Dev 0.8586

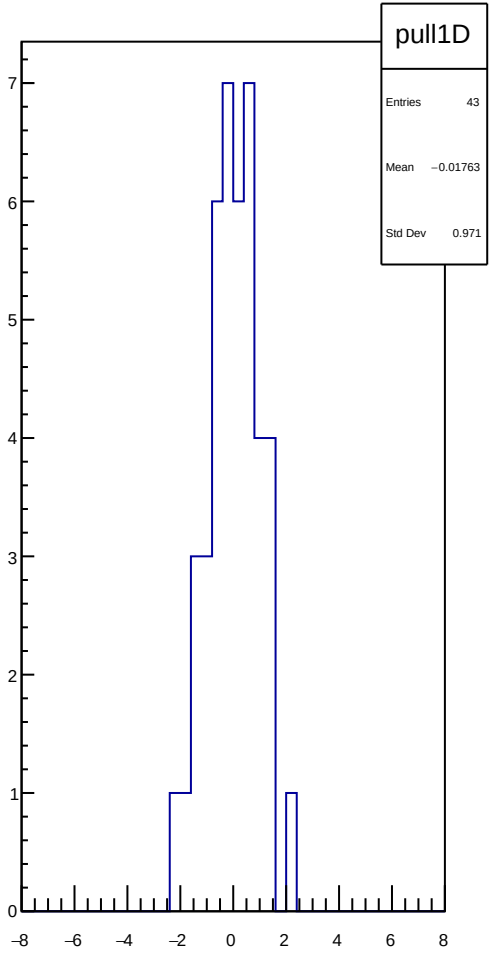

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 9.028e+04 / 42
p0 105 ± 0.1187
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

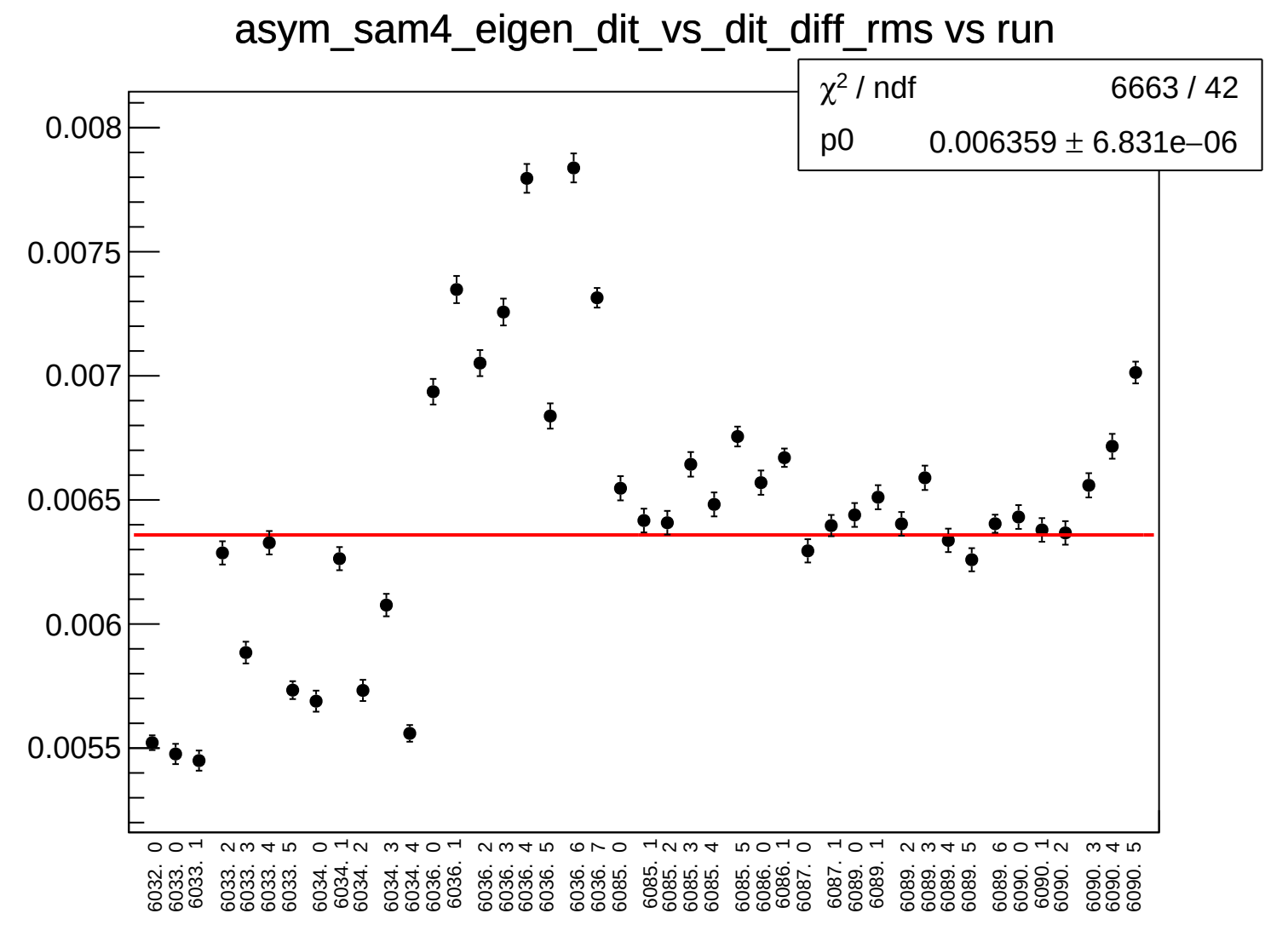

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.76 / 42
p0 0.1302 ± 0.1679
pull
Entries 43
Mean −27.09
Std Dev 0

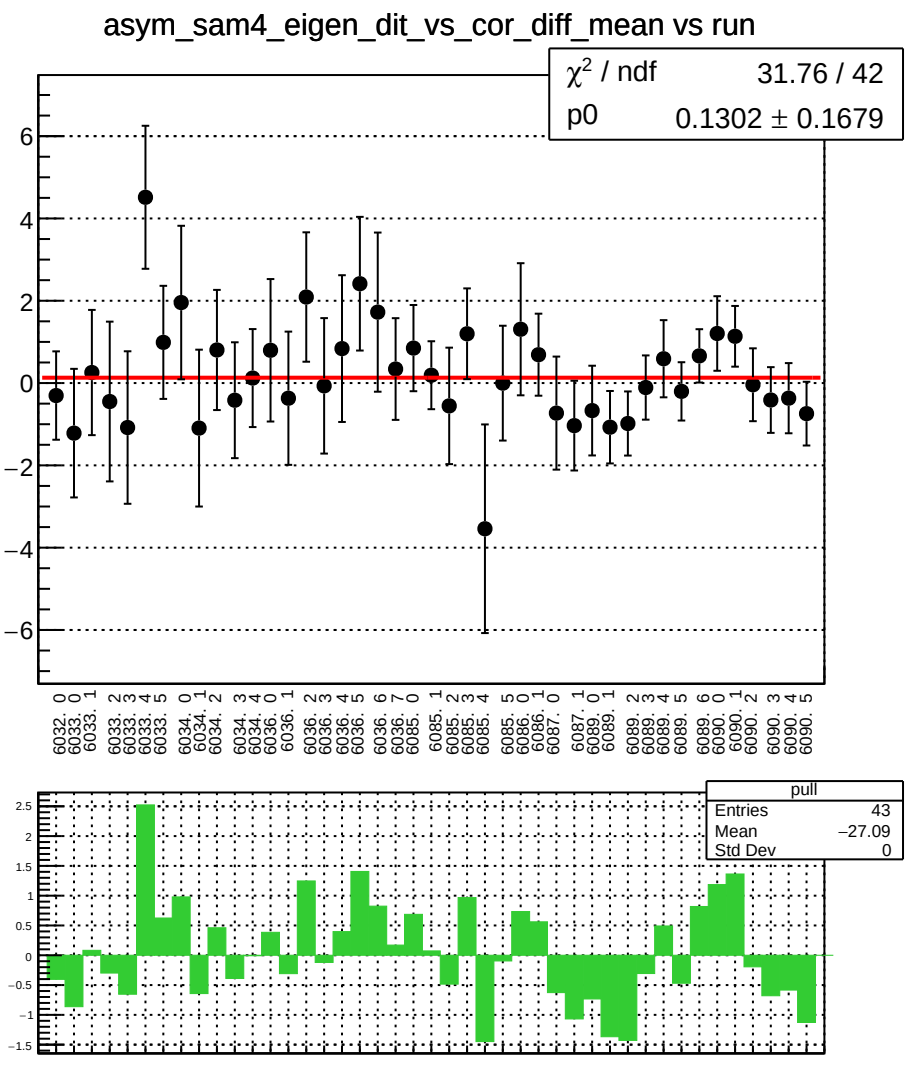

pull1D
Entries 43
Mean 0.03927
Std Dev 0.8586

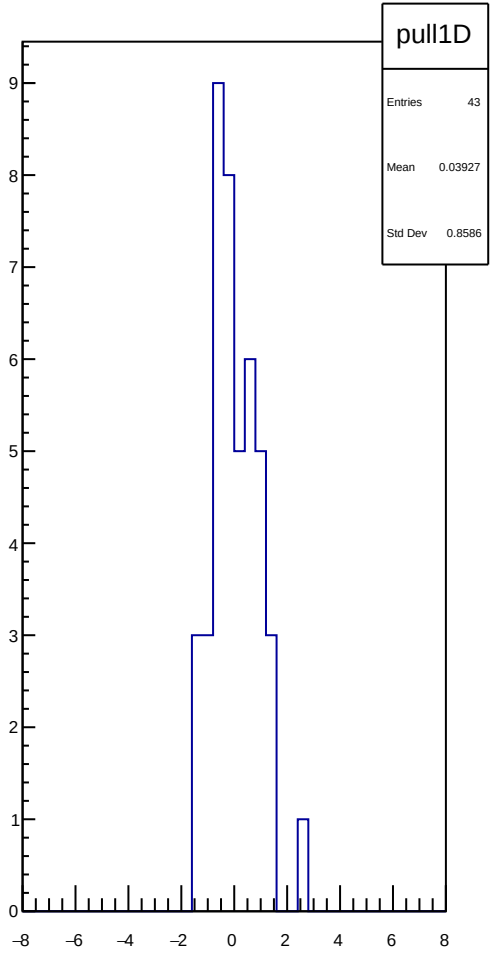

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.028e+04 / 42
p0 105 ± 0.1187
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

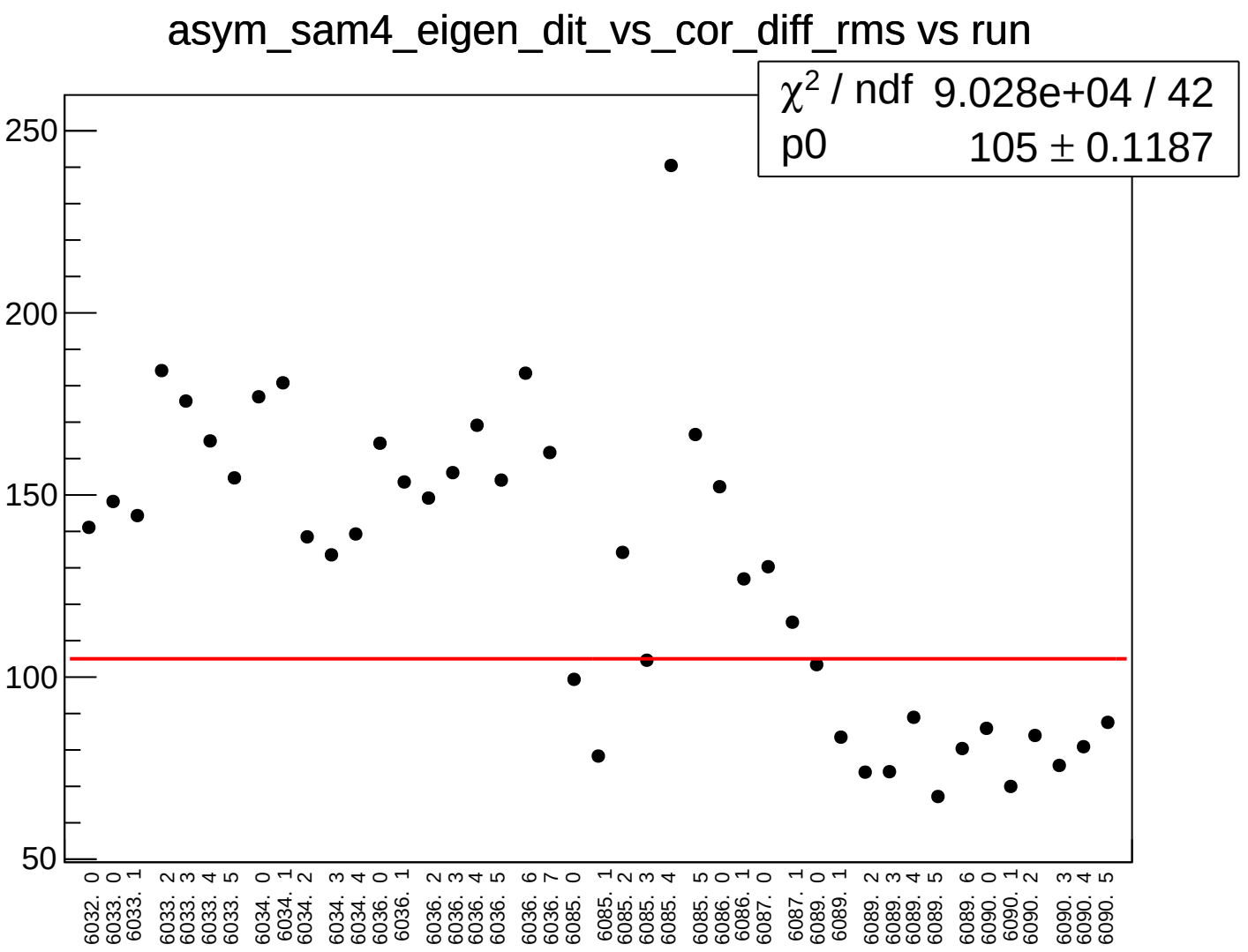

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.56 / 42
p0 −1.136e−05 ± 9.661e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −19.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

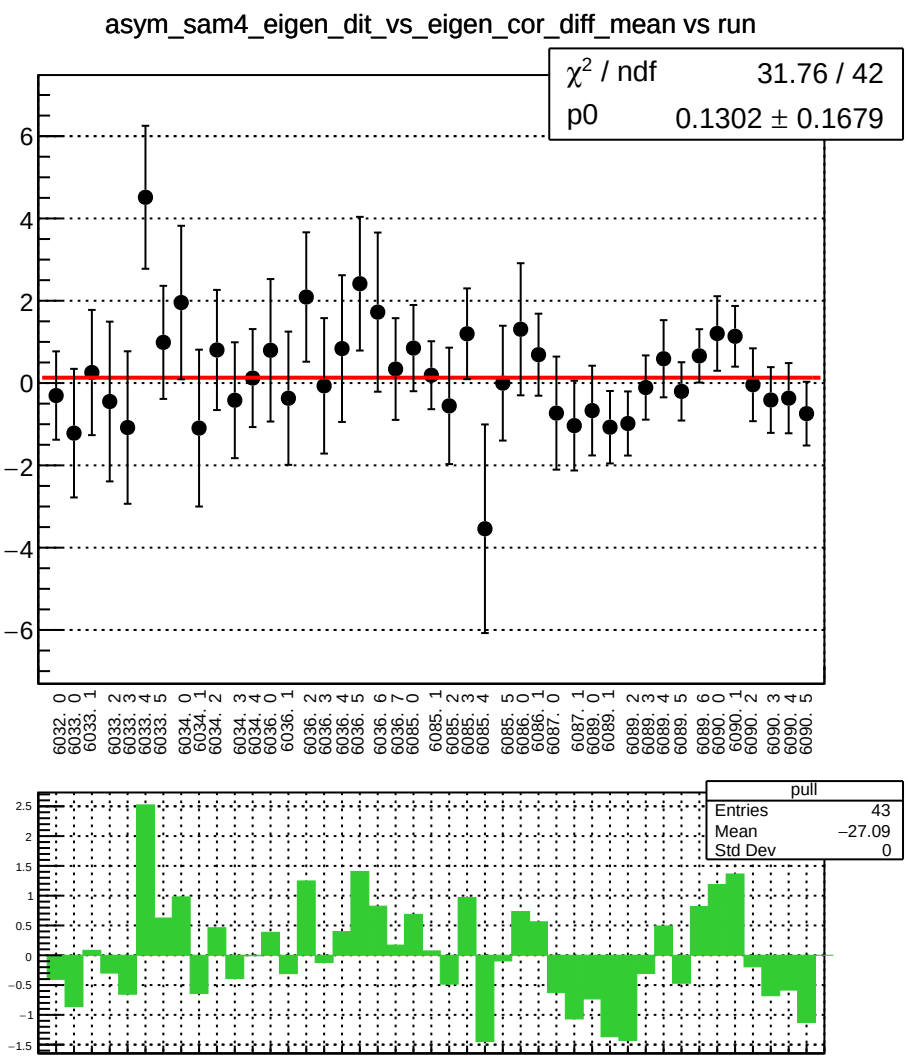

pull1D
Entries 43
Mean −0.01763
Std Dev 0.971
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

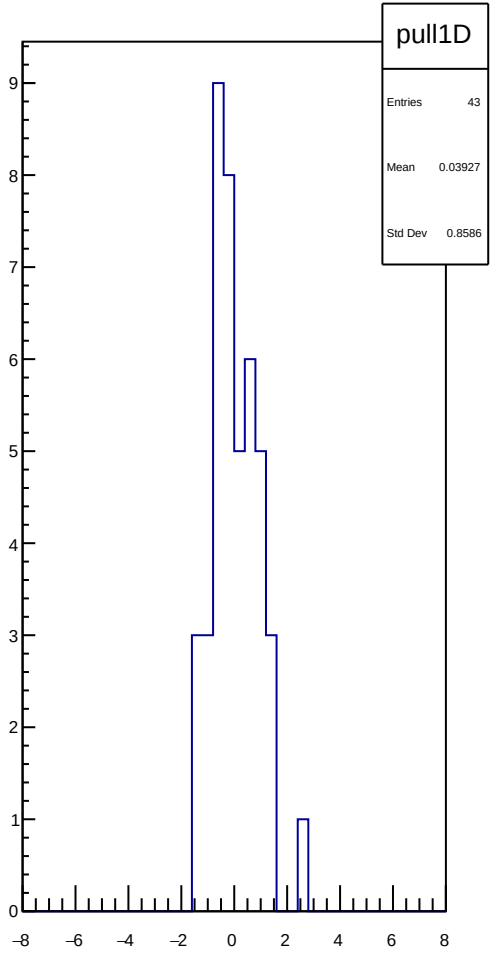

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6663 / 42
p0 0.006359 ± 6.831e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

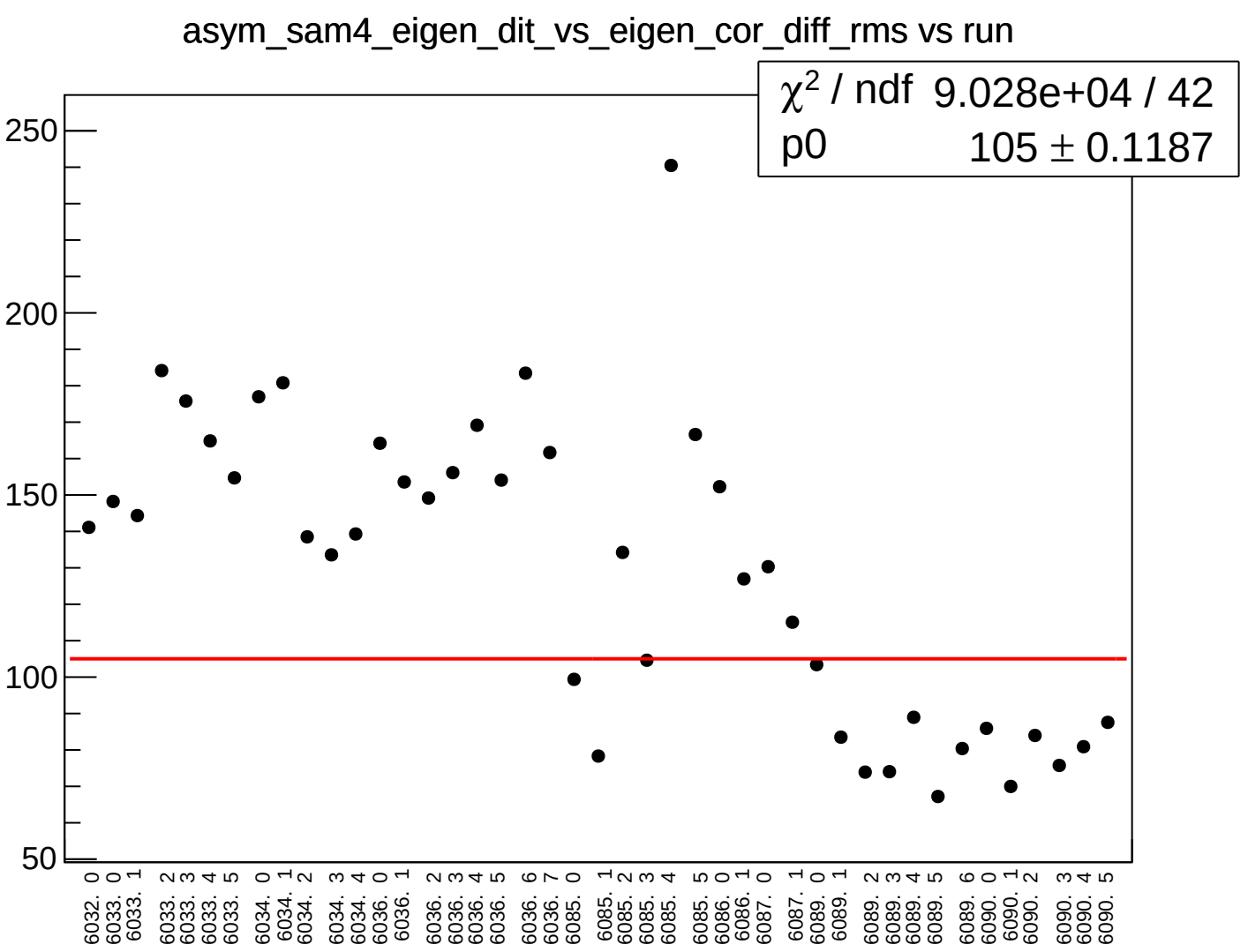

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.76 / 42
p0 0.1302 ± 0.1679
pull
Entries 43
Mean −27.09
Std Dev 0

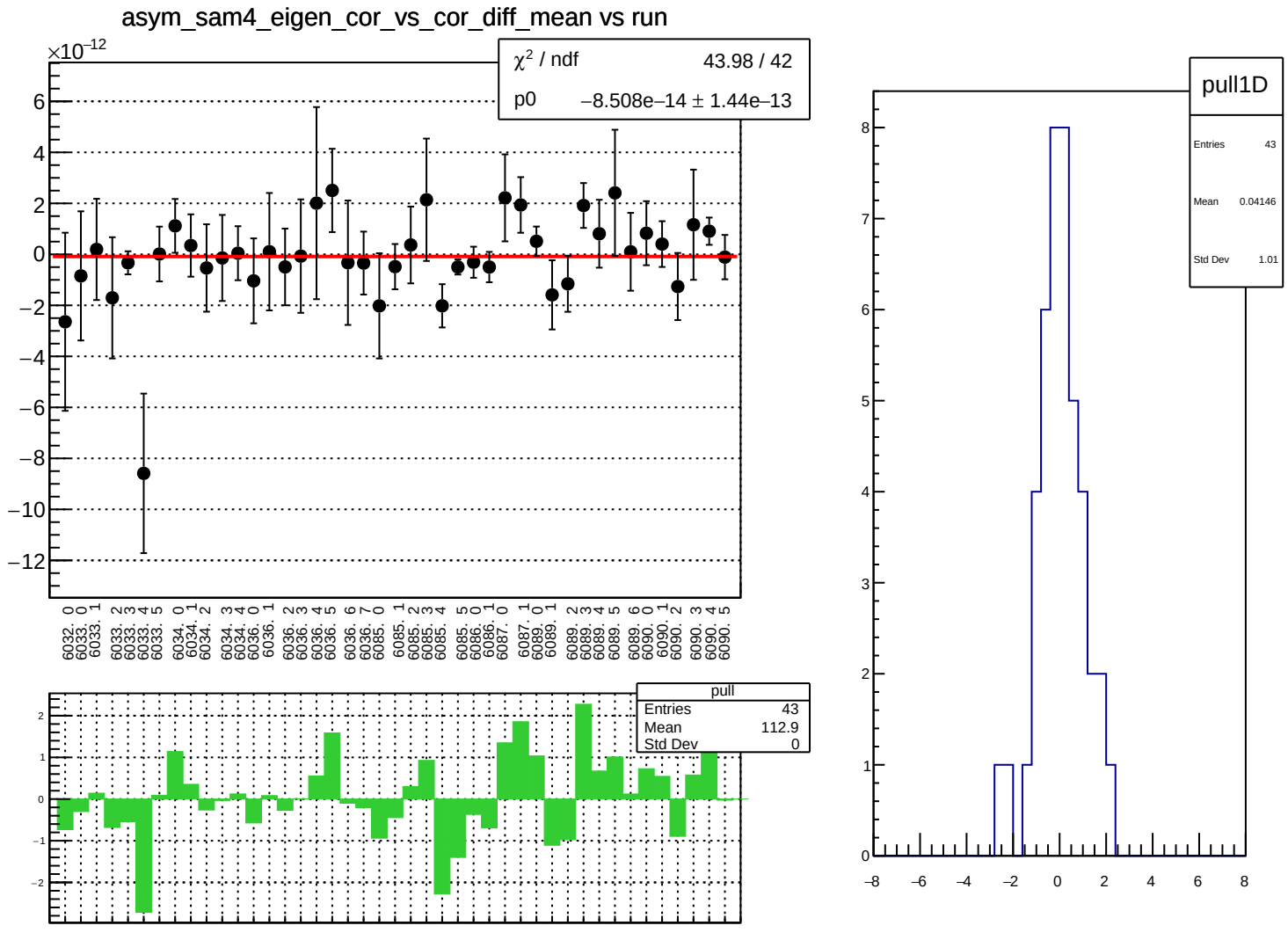

pull1D
Entries 43
Mean 0.03927
Std Dev 0.8586

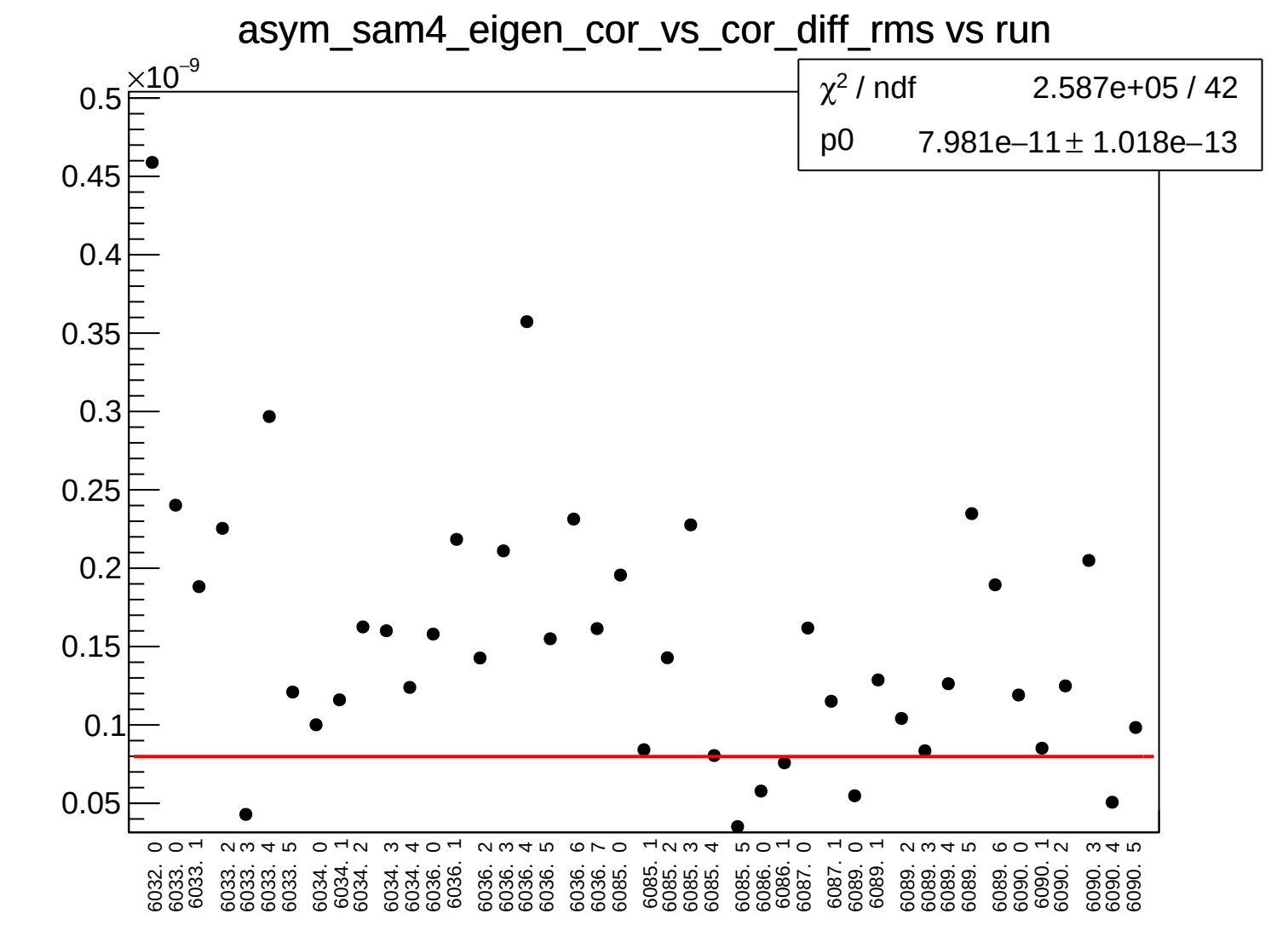

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.028e+04 / 42
p0 105 ± 0.1187
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

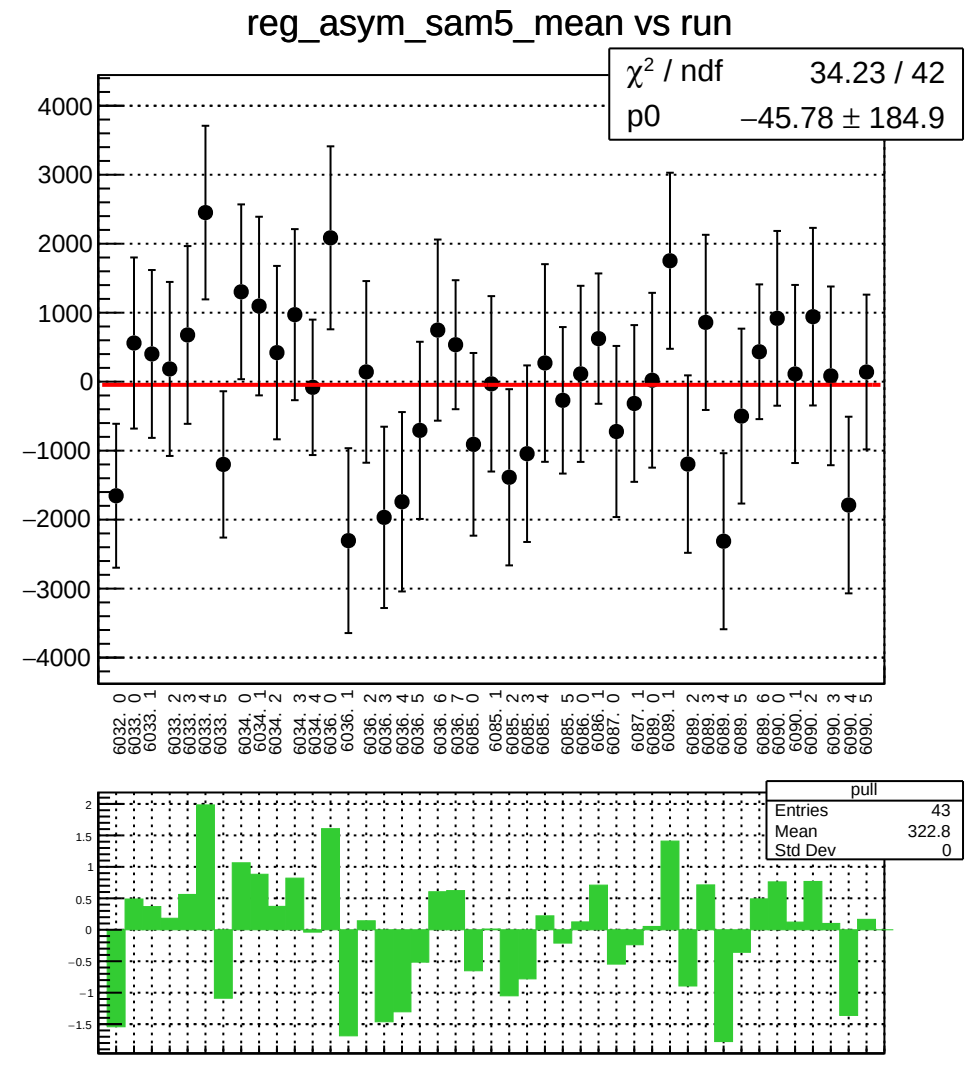

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.76 / 42
p0 0.1302 ± 0.1679
pull
Entries 43
Mean −27.09
Std Dev 0

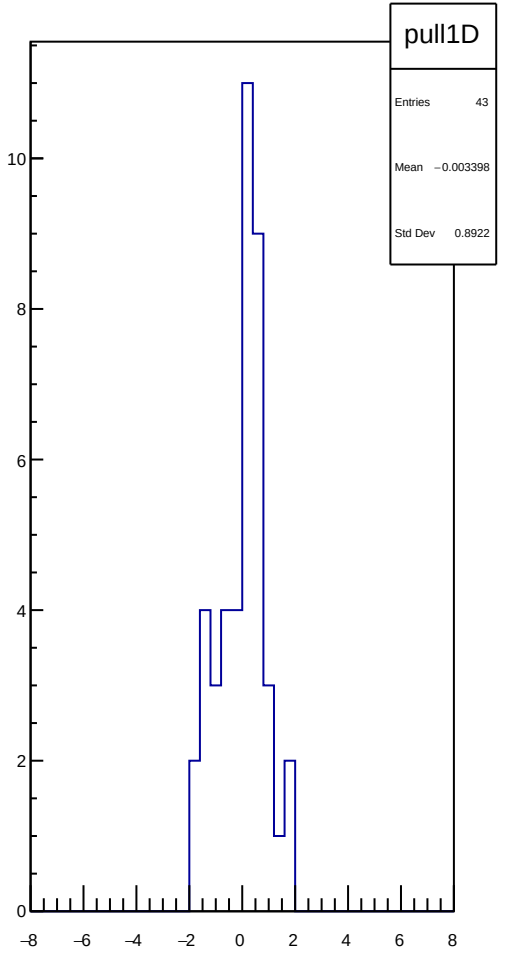

pull1D
Entries 43
Mean 0.03927
Std Dev 0.8586

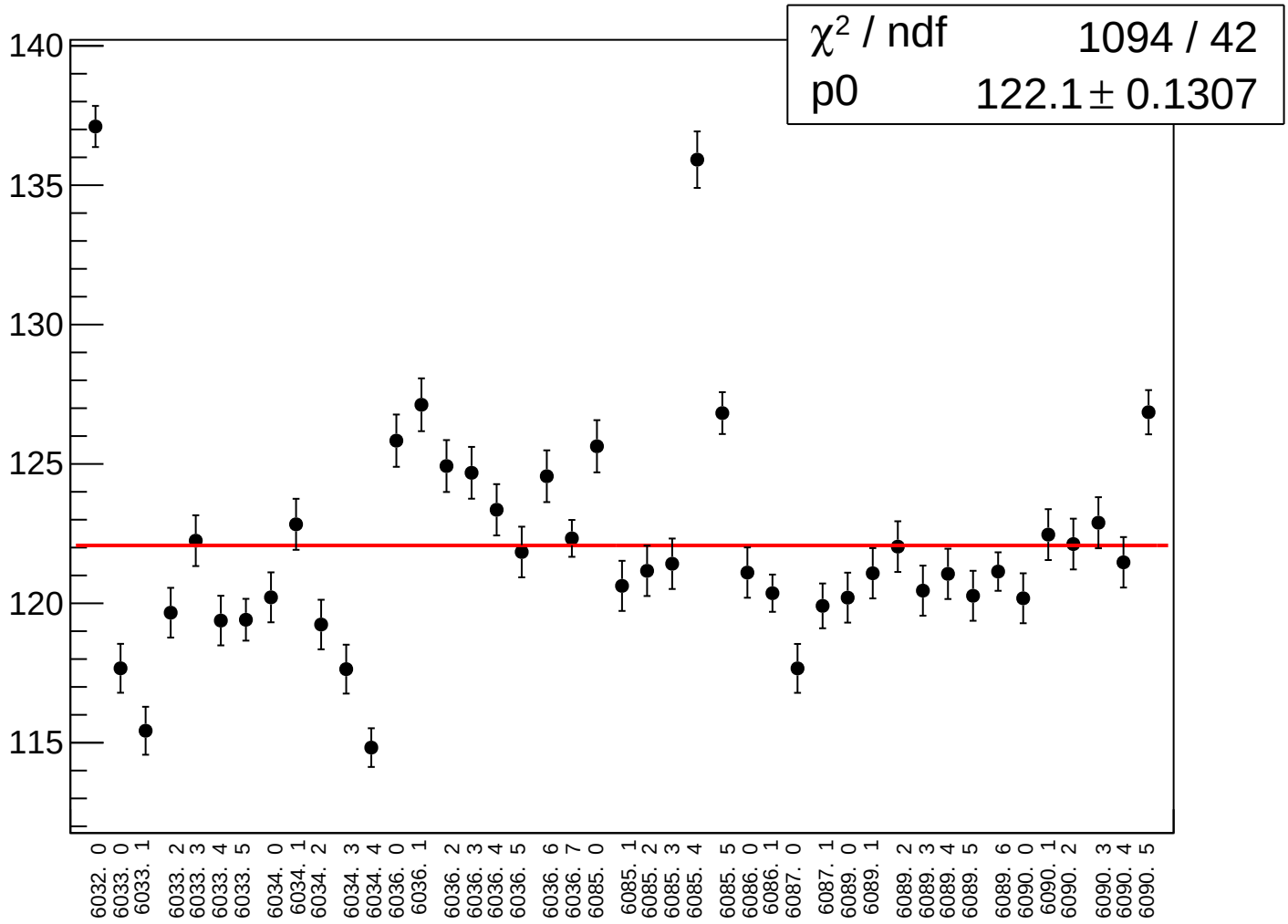

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.028e+04 / 42
p0 105 ± 0.1187
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

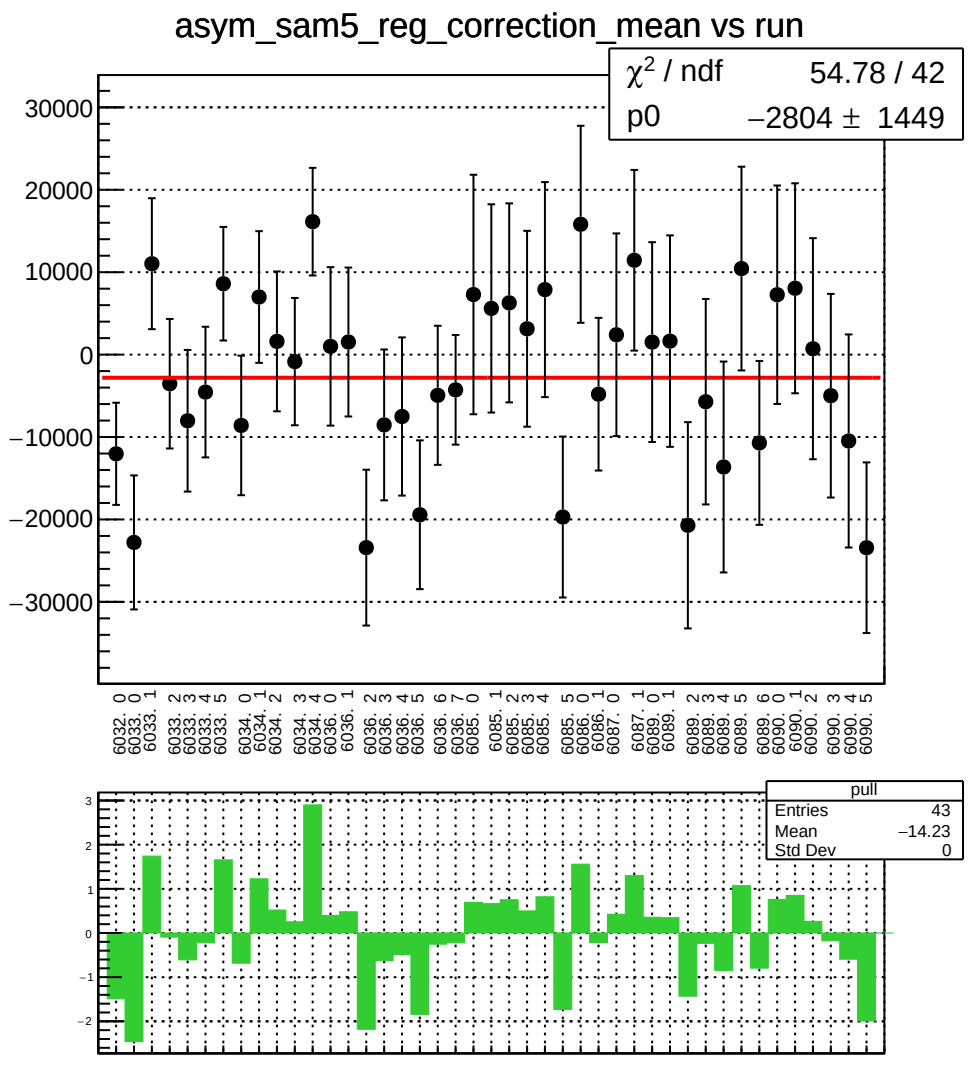

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.98 / 42
p0 −8.508e−14 ± 1.44e−13
6
4
2
0
−2
−4
−6
−8
−10
−12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 112.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04146
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

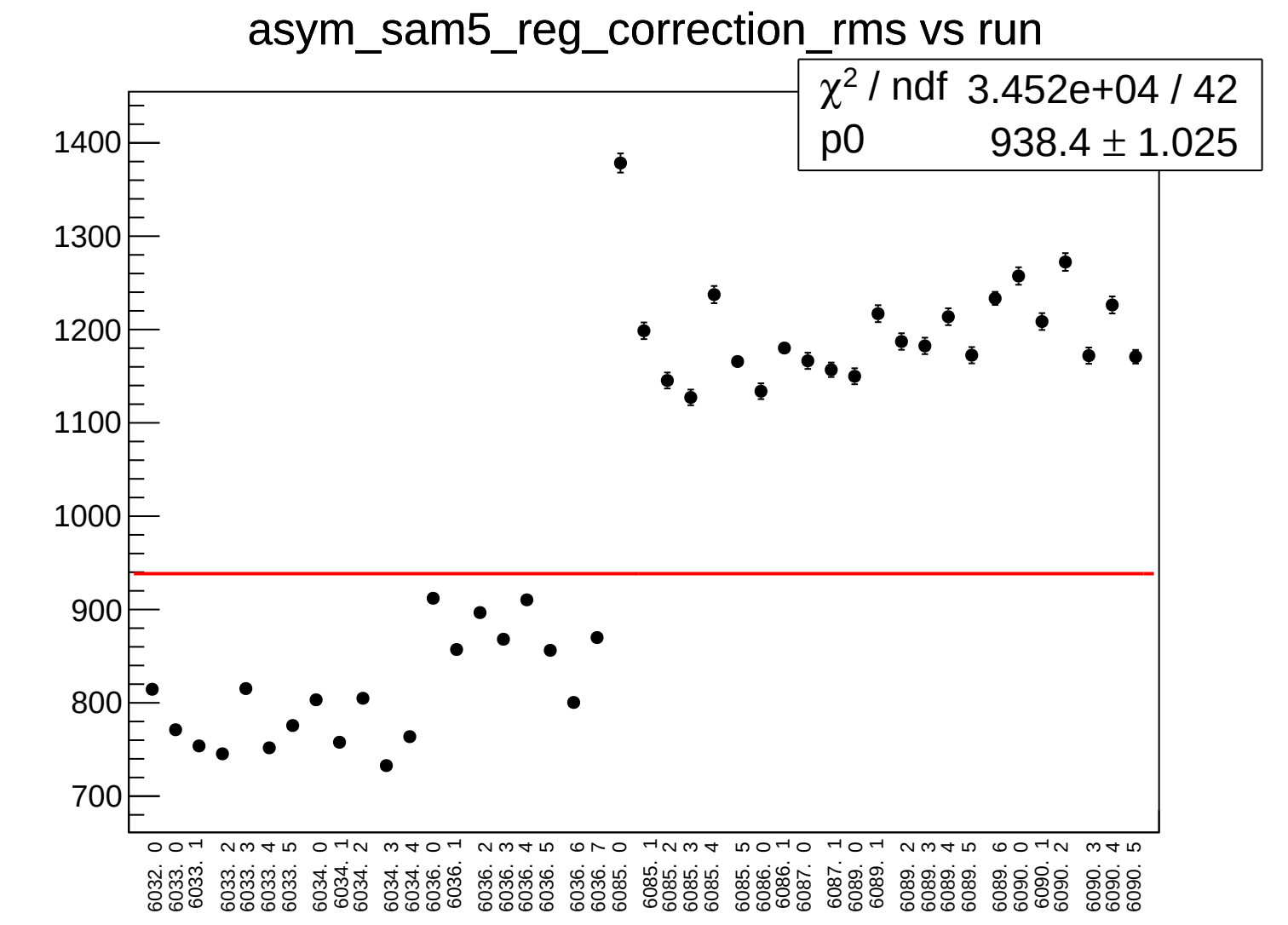

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.587e+05 / 42
p0 7.981e−11 ± 1.018e−13
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

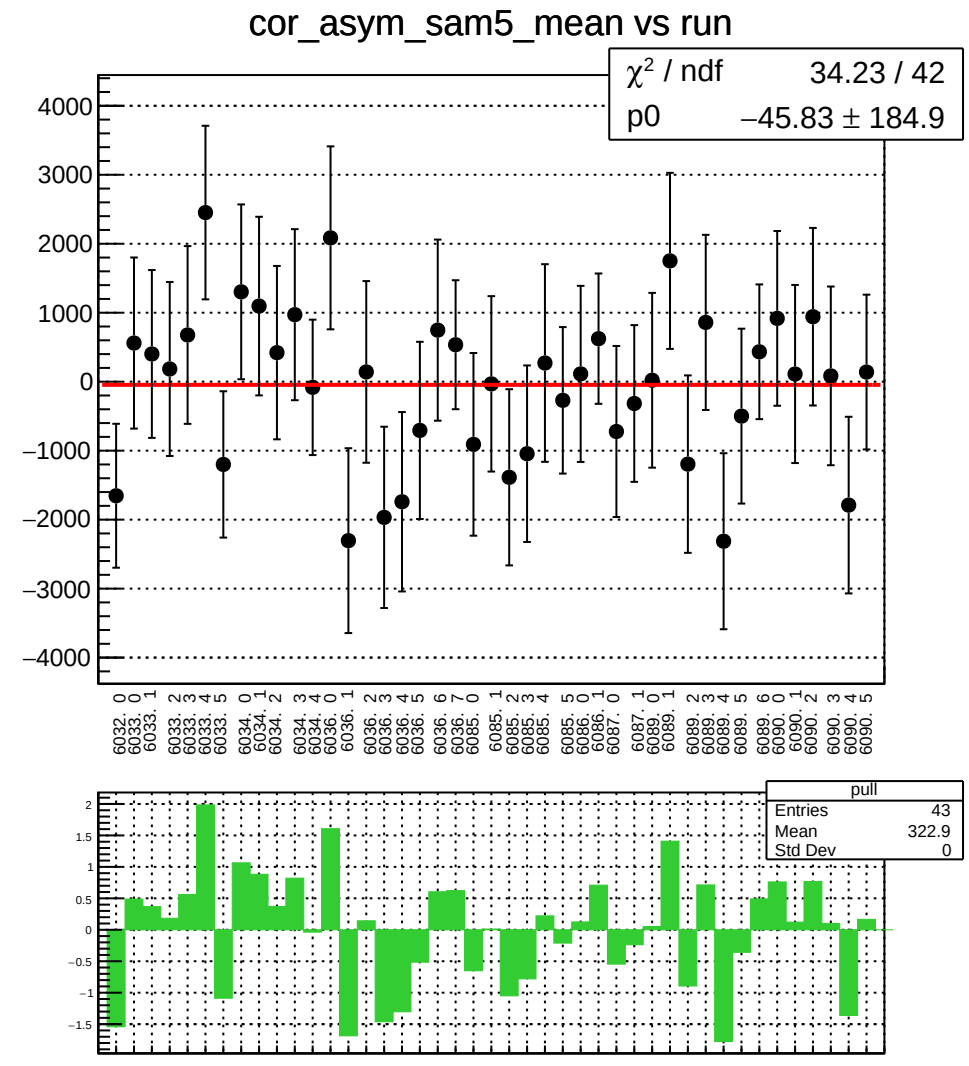

reg_asym_sam5_mean vs run
χ² / ndf 34.23 / 42
p0 −45.78 ± 184.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 322.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

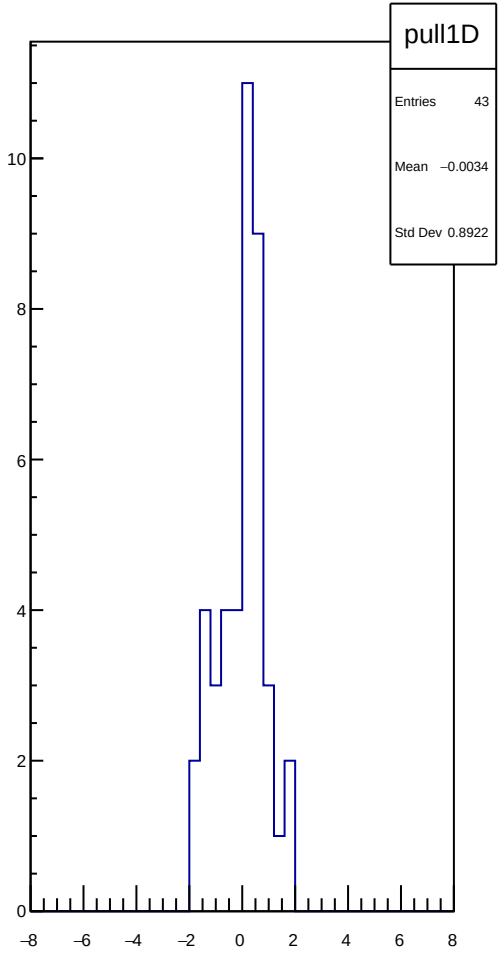

pull1D
Entries 43
Mean −0.003398
Std Dev 0.8922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

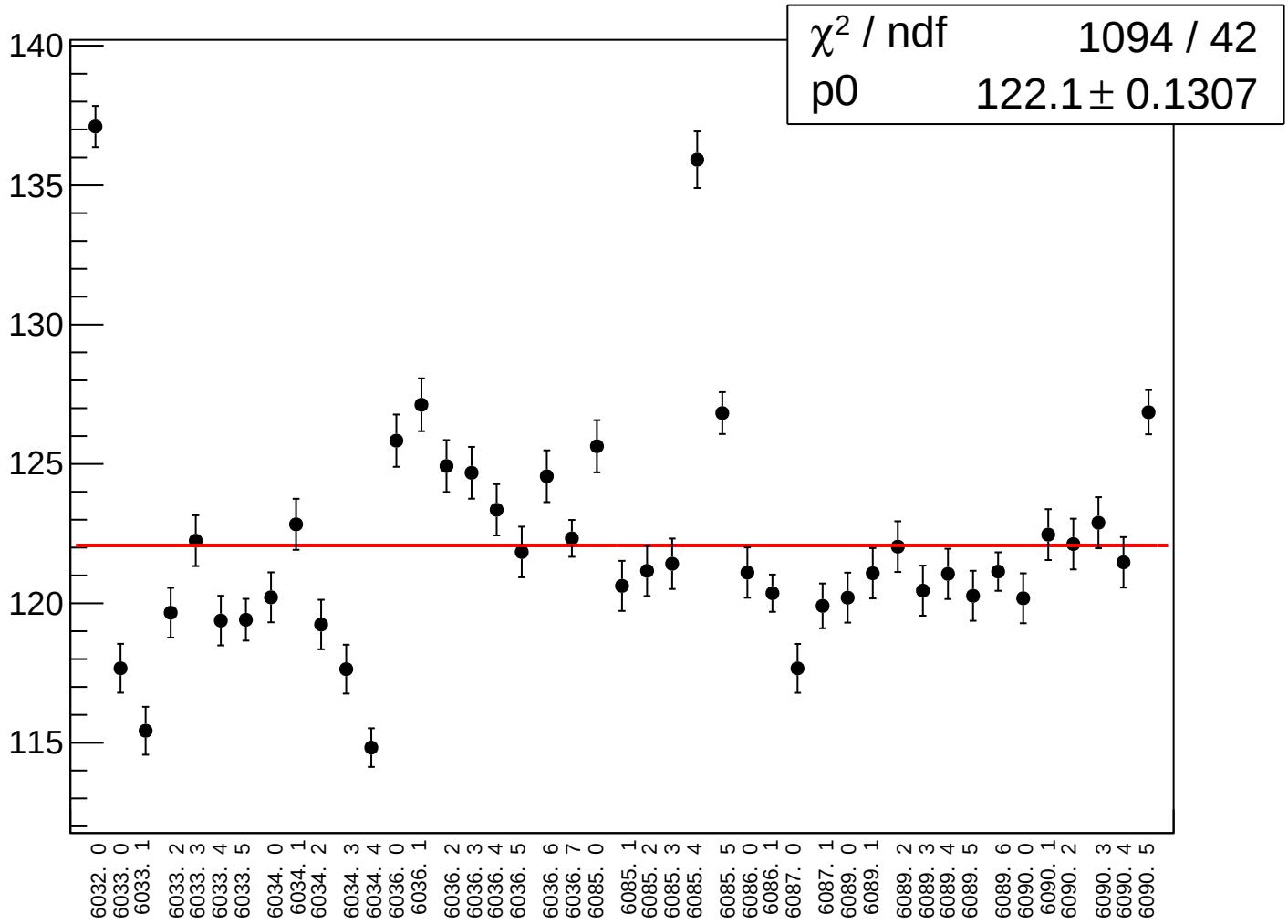

reg_asym_sam5_rms vs run
χ² / ndf 1094 / 42
p0 122.1 ± 0.1307
140
135
130
125
120
115
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

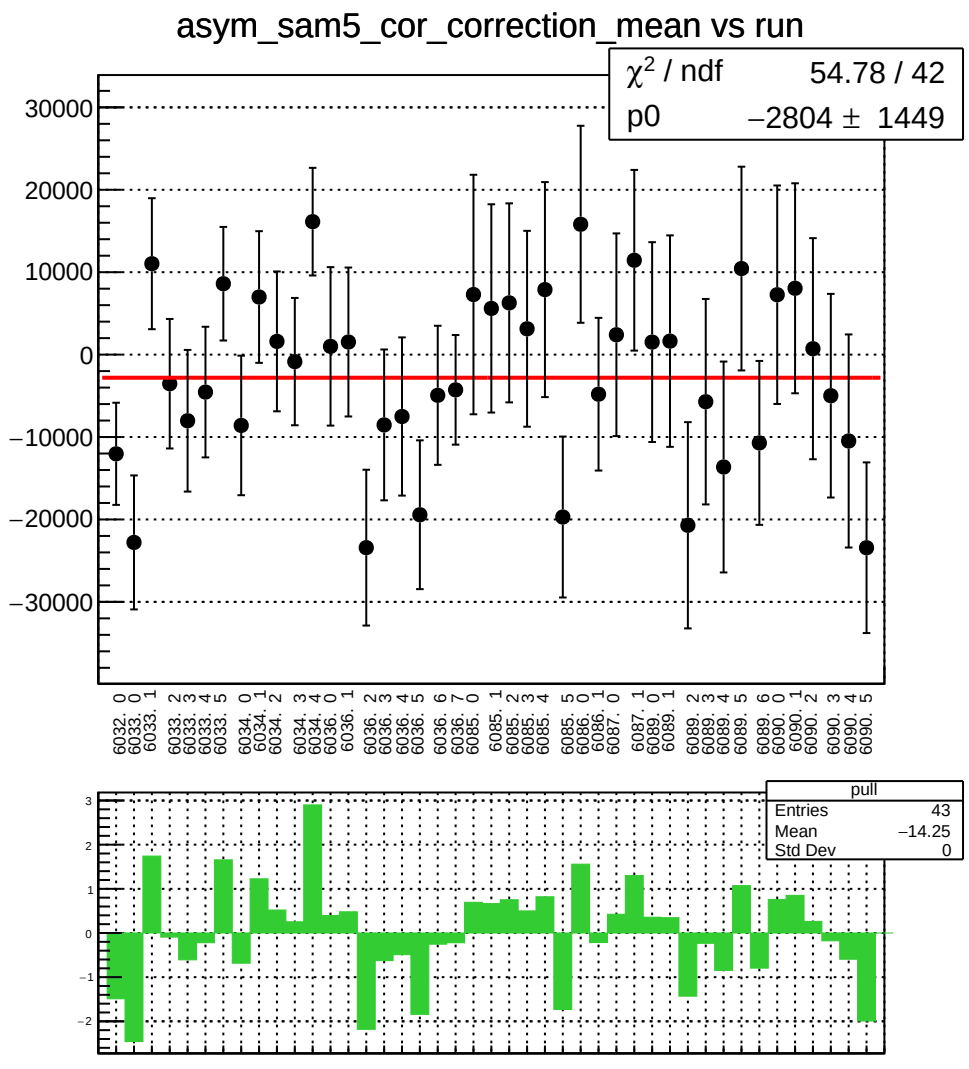

asym_sam5_reg_correction_mean vs run
χ² / ndf 54.78 / 42
p0 −2804 ± 1449
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.23
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.008304
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

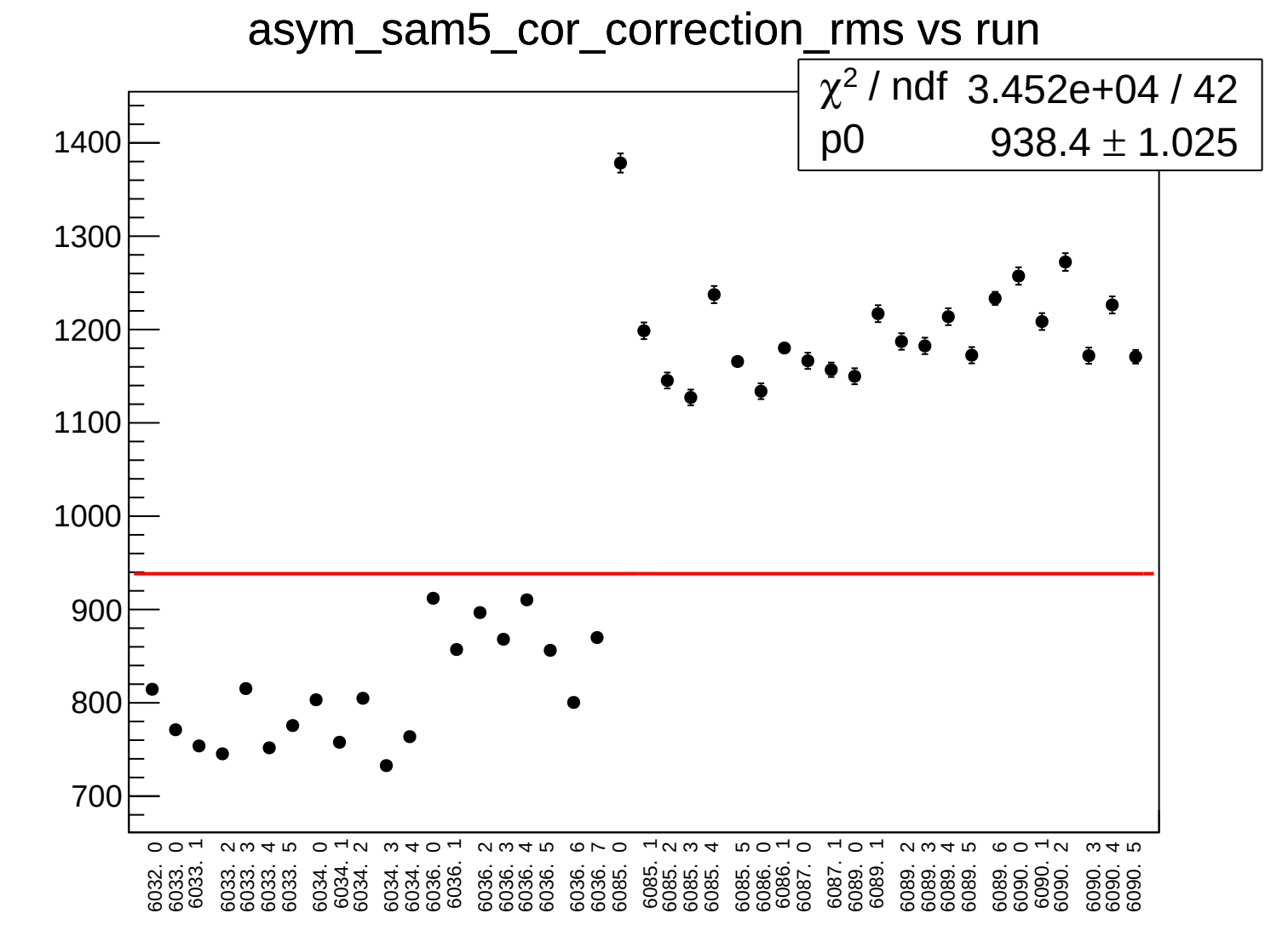

asym_sam5_reg_correction_rms vs run
χ² / ndf 3.452e+04 / 42
p0 938.4 ± 1.025
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

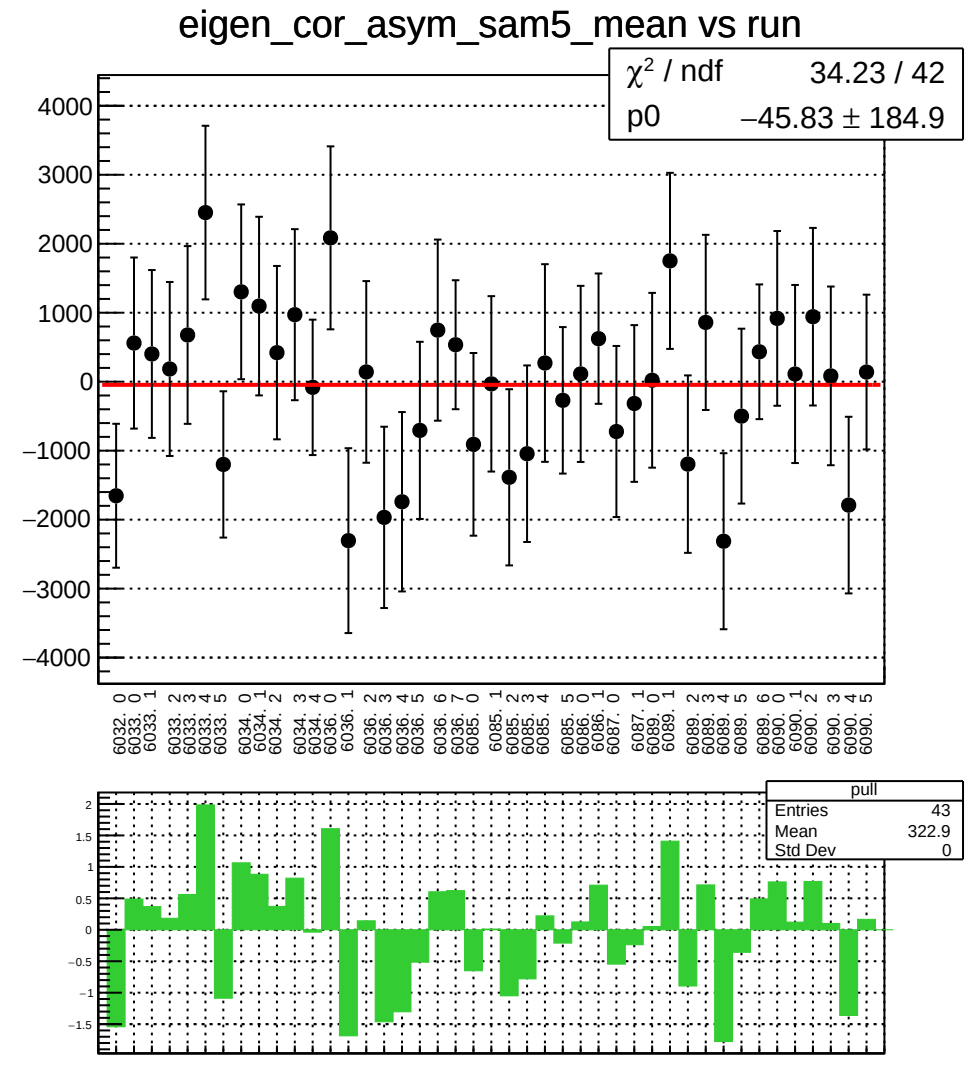

cor_asym_sam5_mean vs run
χ² / ndf 34.23 / 42
p0 −45.83 ± 184.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 322.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

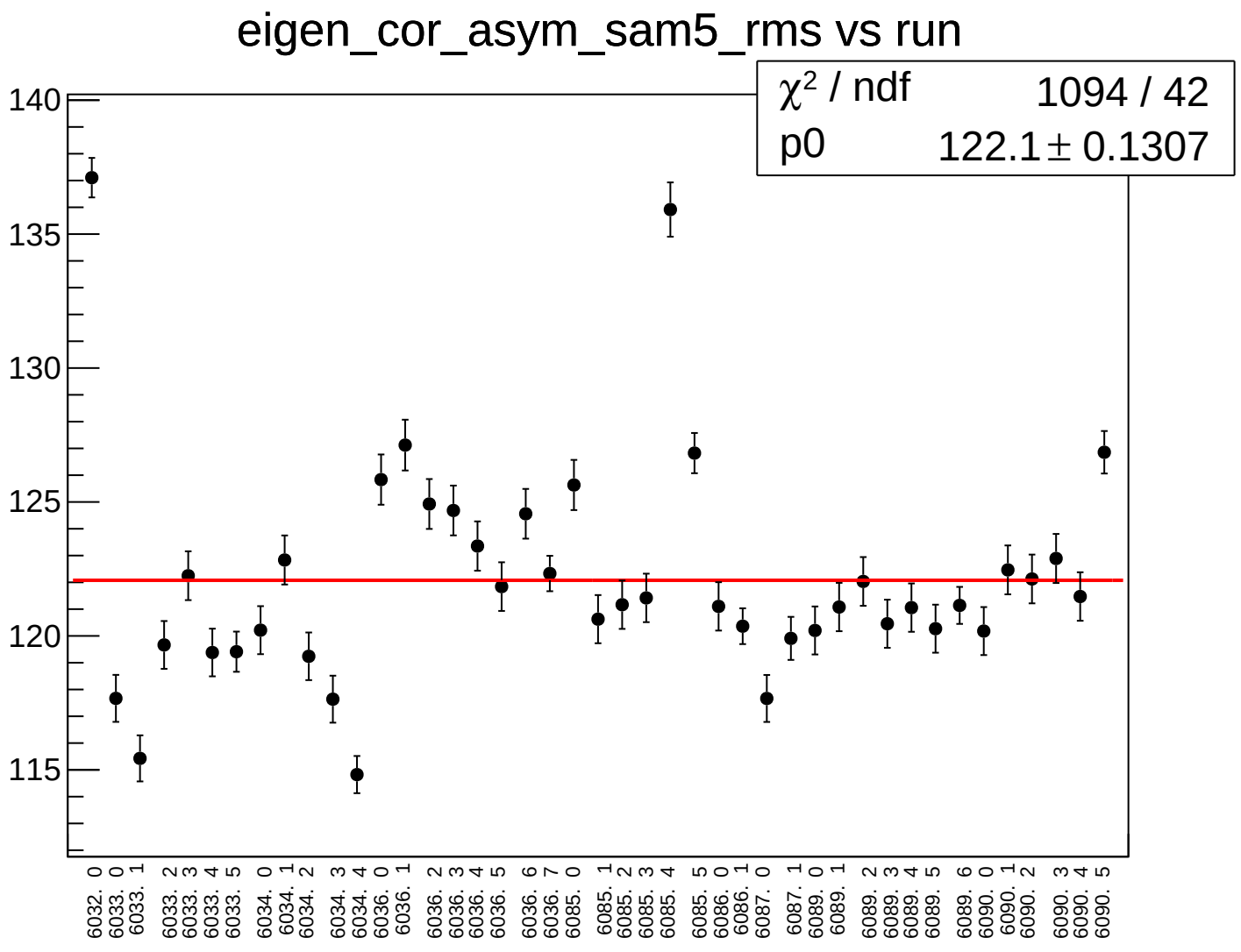

pull1D
Entries 43
Mean −0.0034
Std Dev 0.8922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

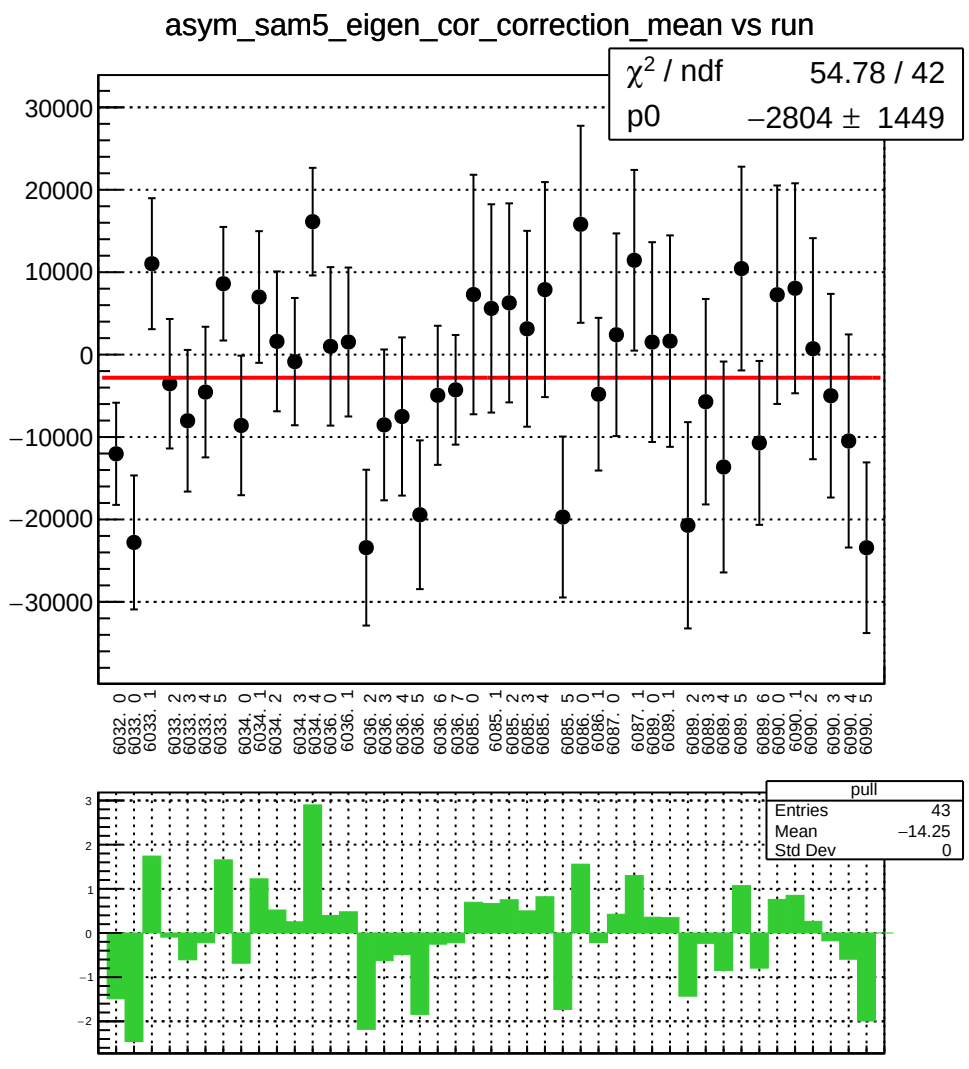

cor_asym_sam5_rms vs run
χ² / ndf 1094 / 42
p0 122.1 ± 0.1307
140
135
130
125
120
115
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

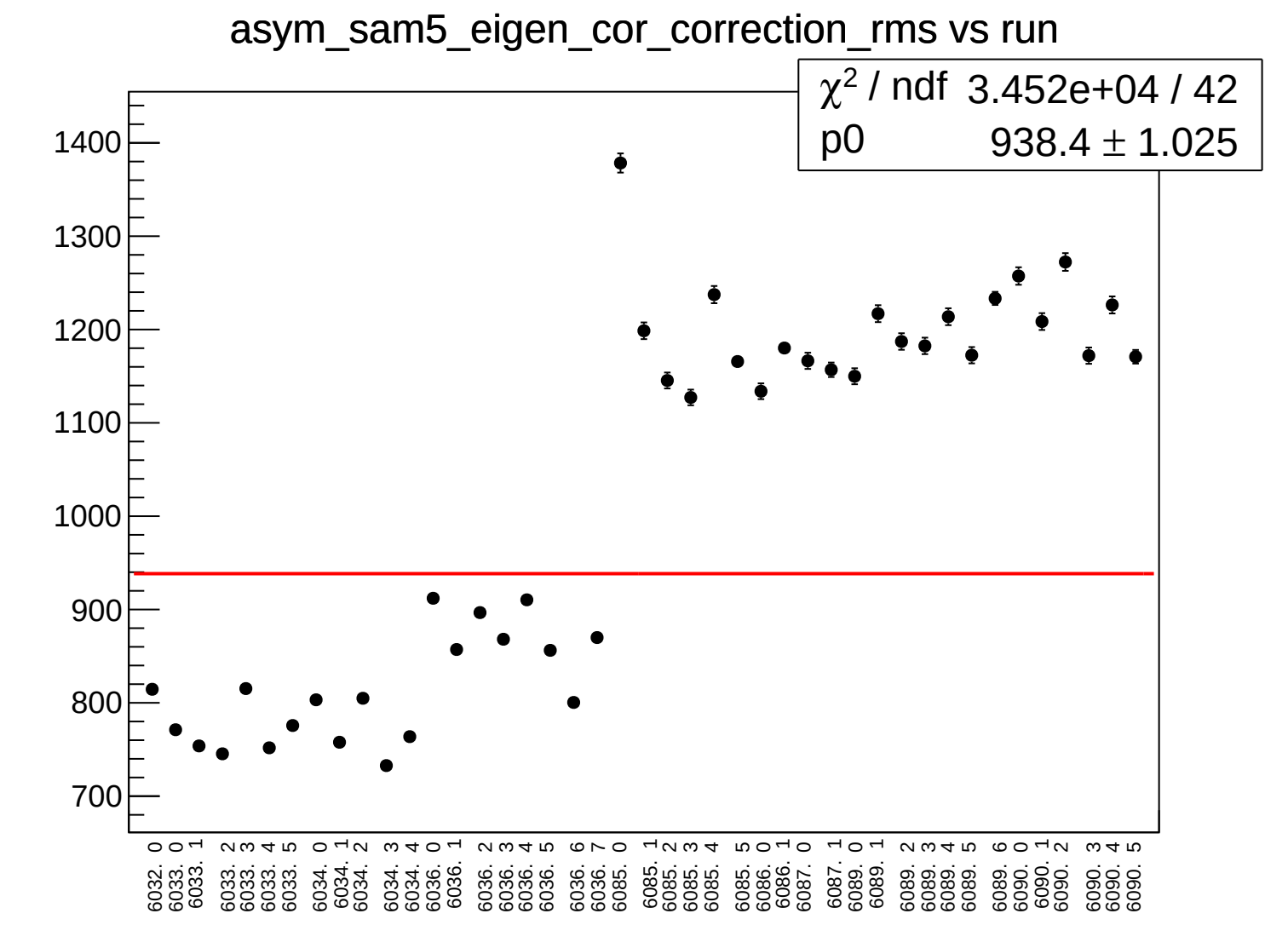

asym_sam5_cor_correction_mean vs run
χ² / ndf 54.78 / 42
p0 −2804 ± 1449
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.008301
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

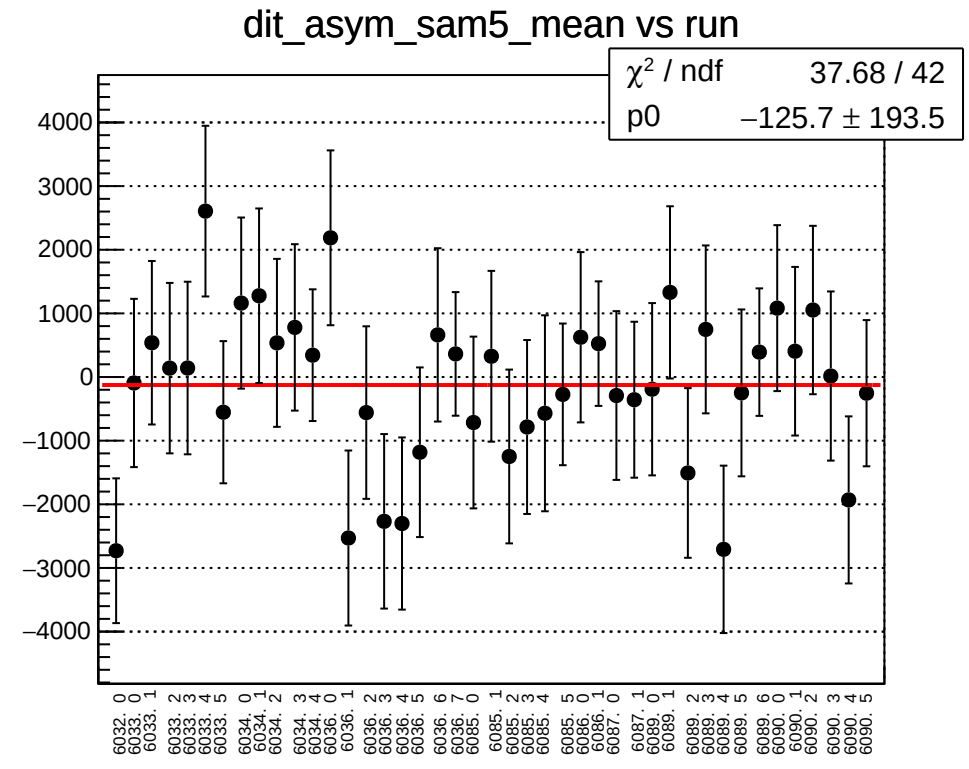

asym_sam5_cor_correction_rms vs run
χ² / ndf 3.452e+04 / 42
p0 938.4 ± 1.025
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

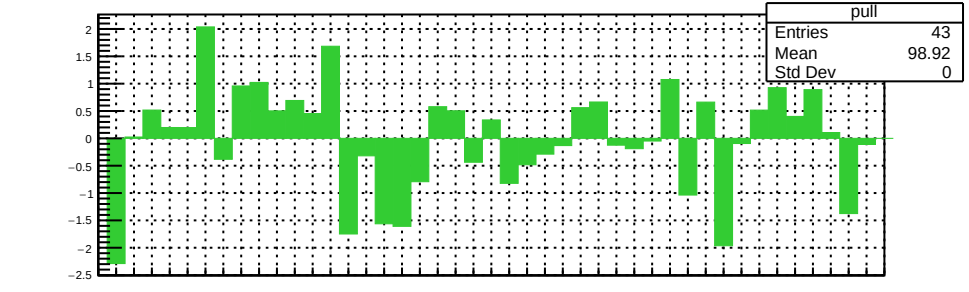

eigen_cor_asym_sam5_mean vs run
χ² / ndf 34.23 / 42
p0 −45.83 ± 184.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 322.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0034
Std Dev 0.8922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

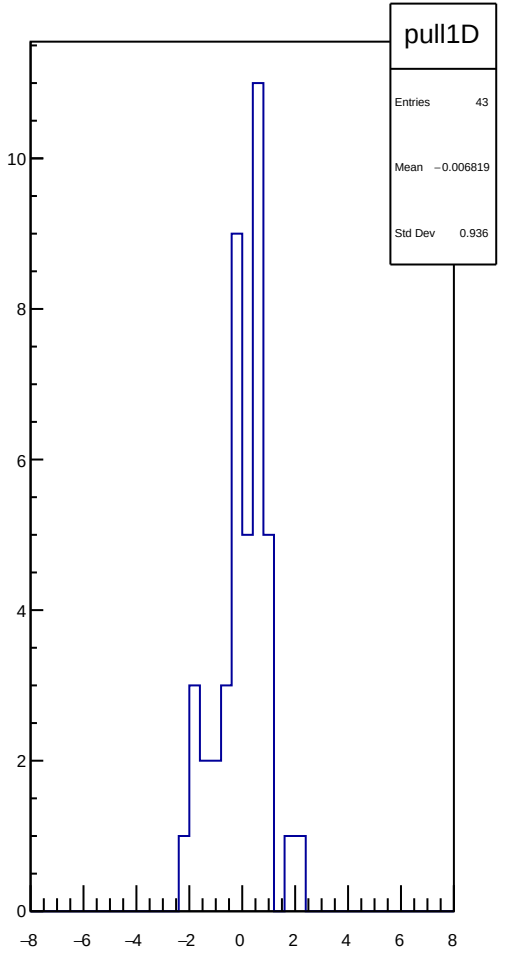

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1094 / 42
p0 122.1 ± 0.1307
140
135
130
125
120
115
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

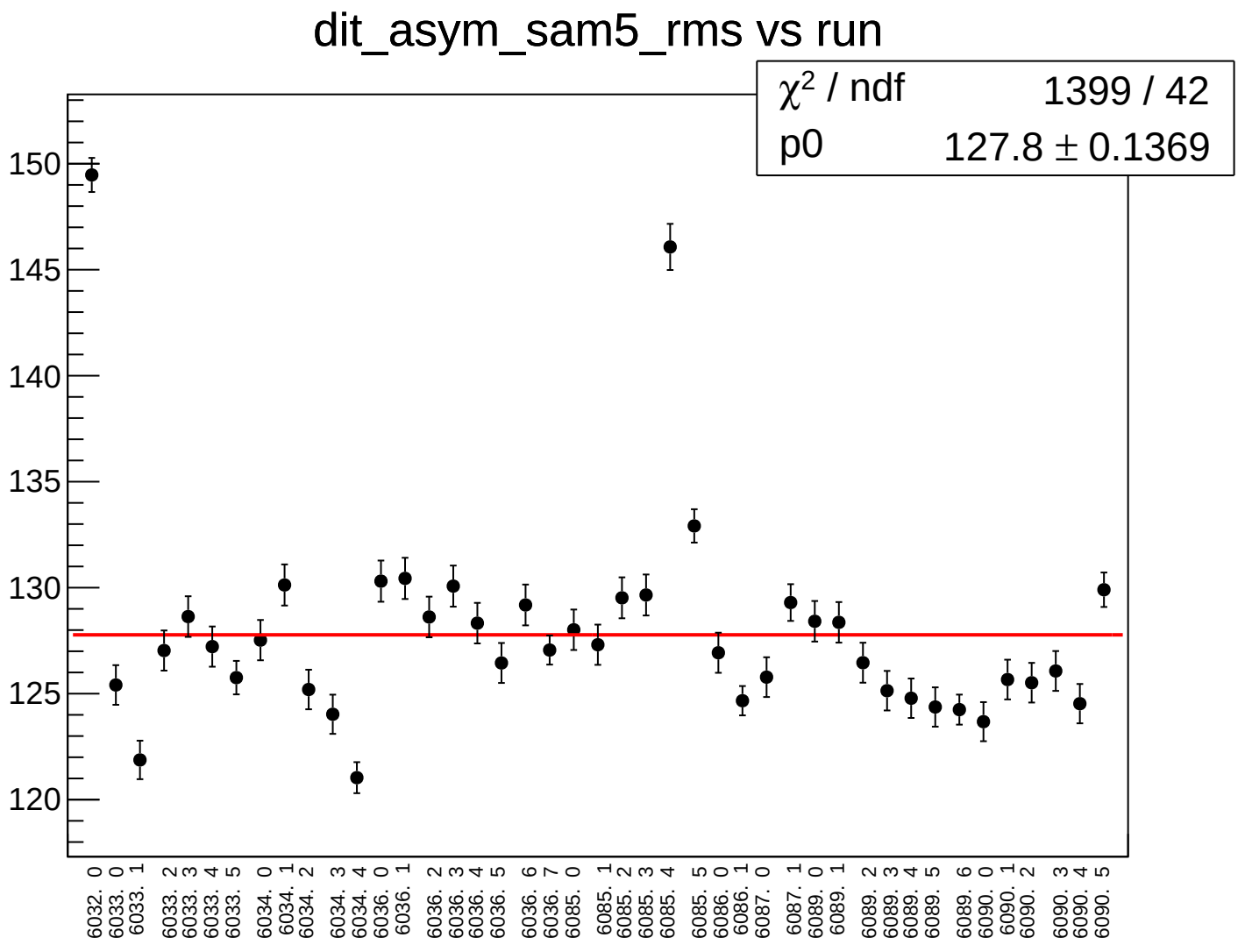

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 54.78 / 42
p0 −2804 ± 1449
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.25
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.008301
Std Dev 1.129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

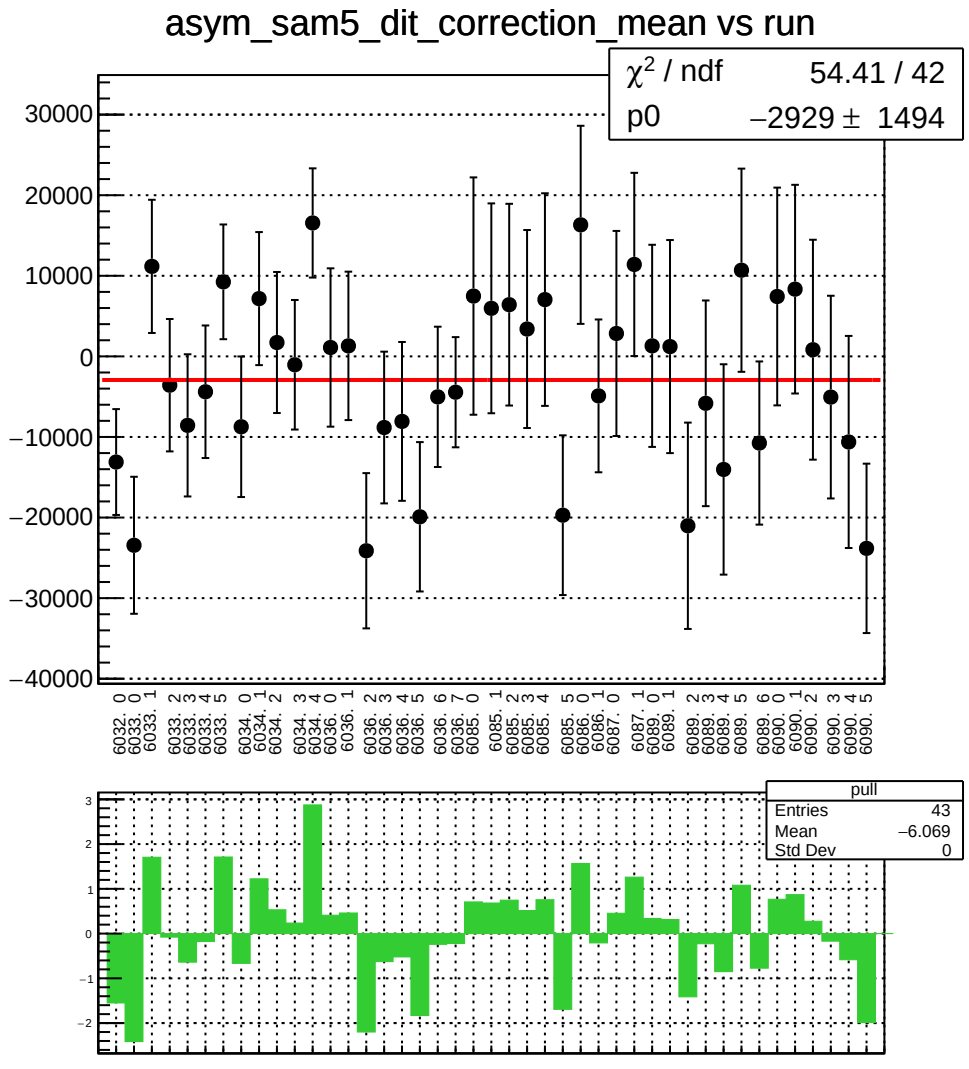

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3.452e+04 / 42
p0 938.4 ± 1.025
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

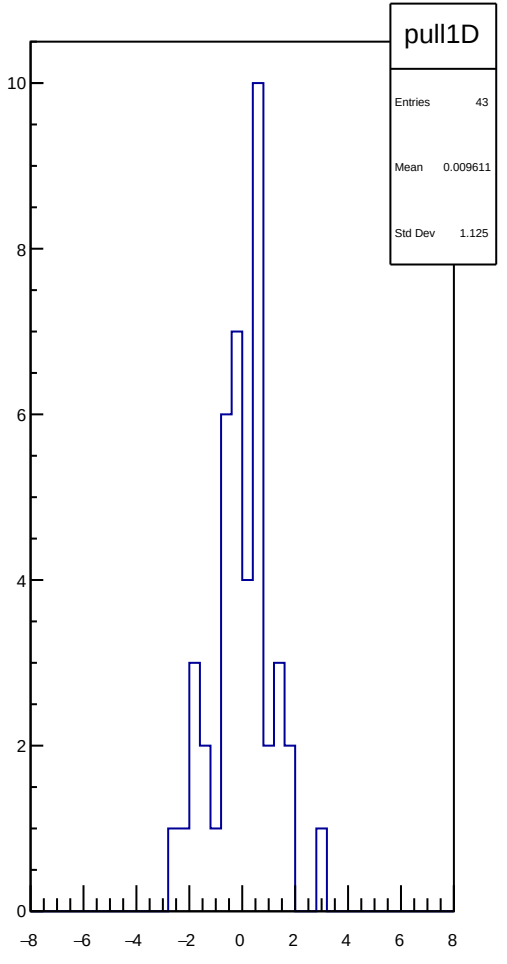

dit_asym_sam5_mean vs run
χ² / ndf 37.68 / 42
p0 −125.7 ± 193.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

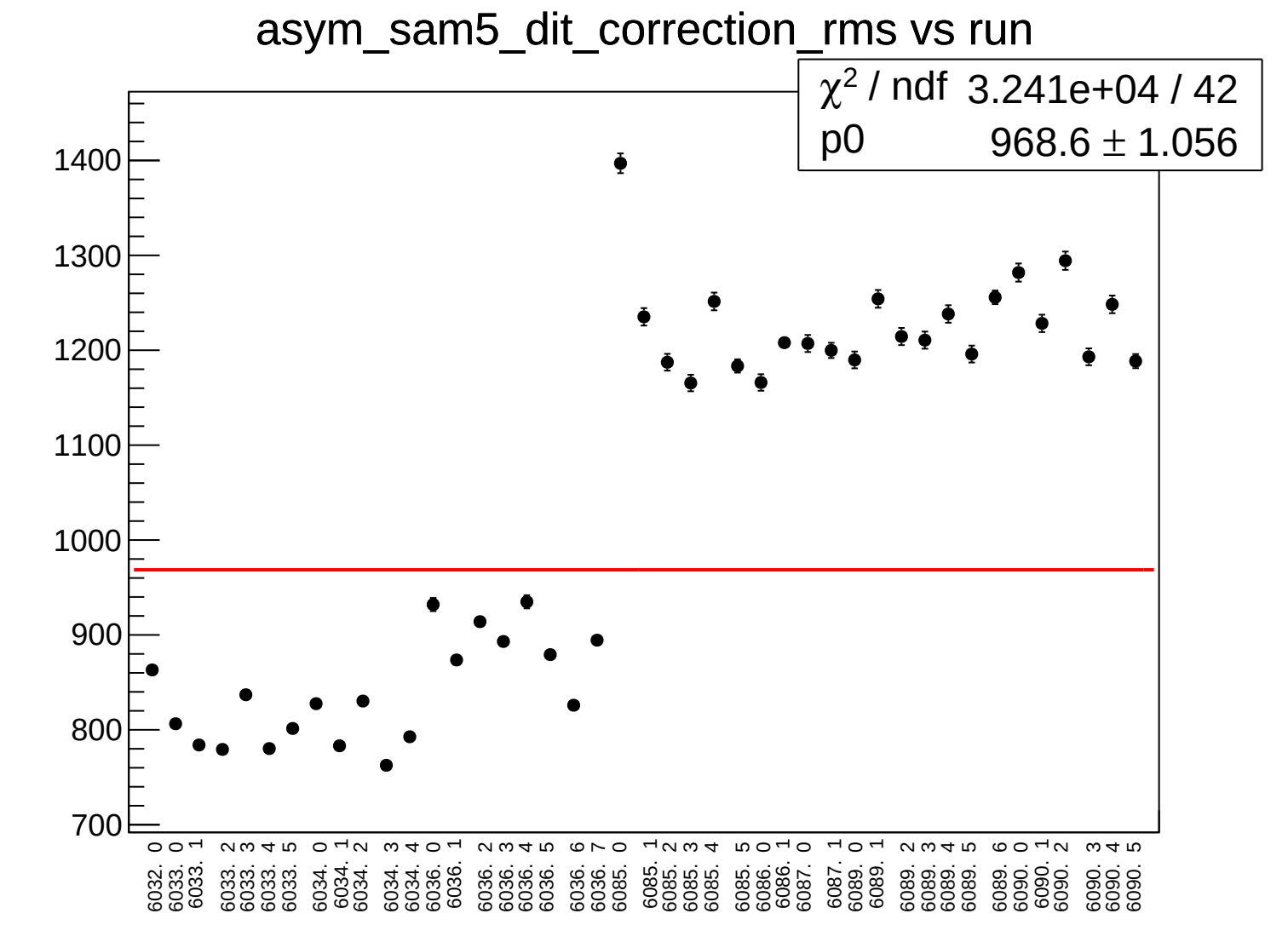

pull
Entries 43
Mean 98.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

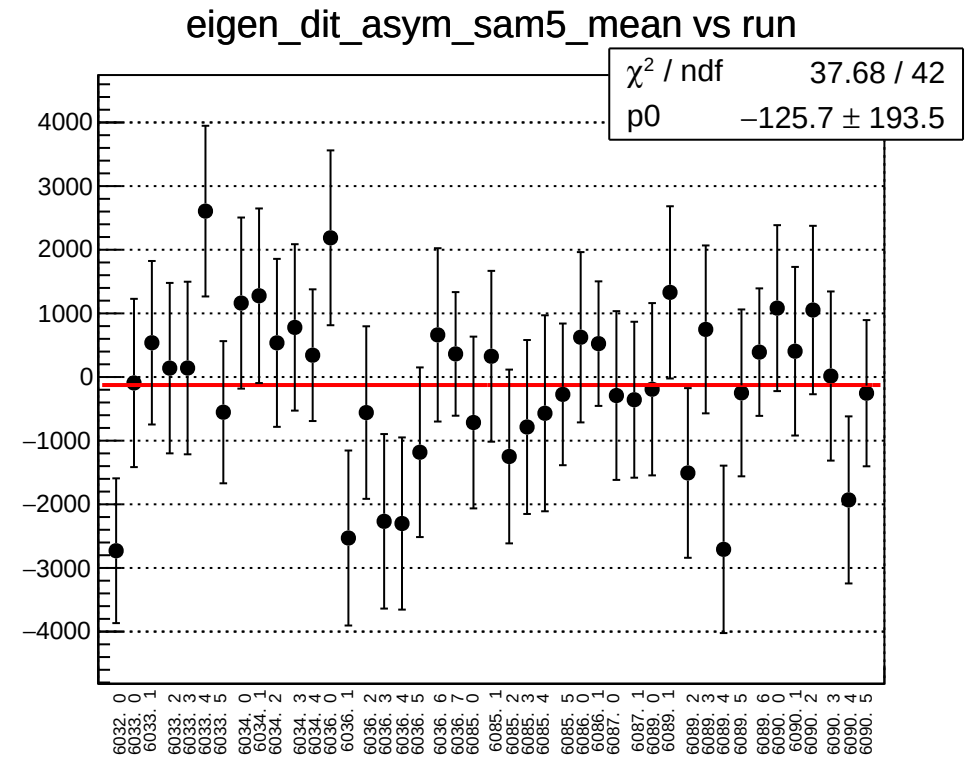

pull1D
Entries 43
Mean −0.006819
Std Dev 0.936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

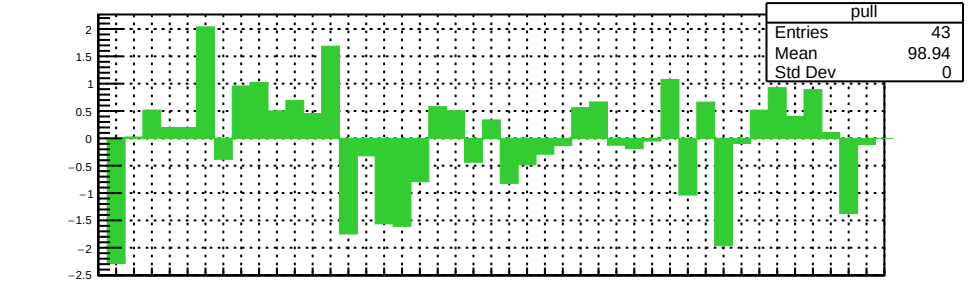

dit_asym_sam5_rms vs run
χ² / ndf 1399 / 42
p0 127.8 ± 0.1369
150
145
140
135
130
125
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

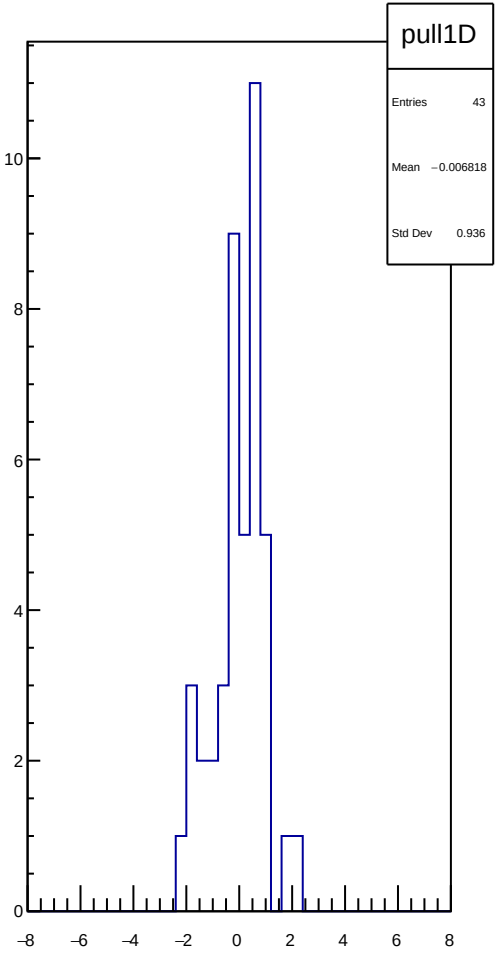

asym_sam5_dit_correction_mean vs run
χ² / ndf 54.41 / 42
p0 −2929 ± 1494
pull
Entries 43
Mean −6.069
Std Dev 0

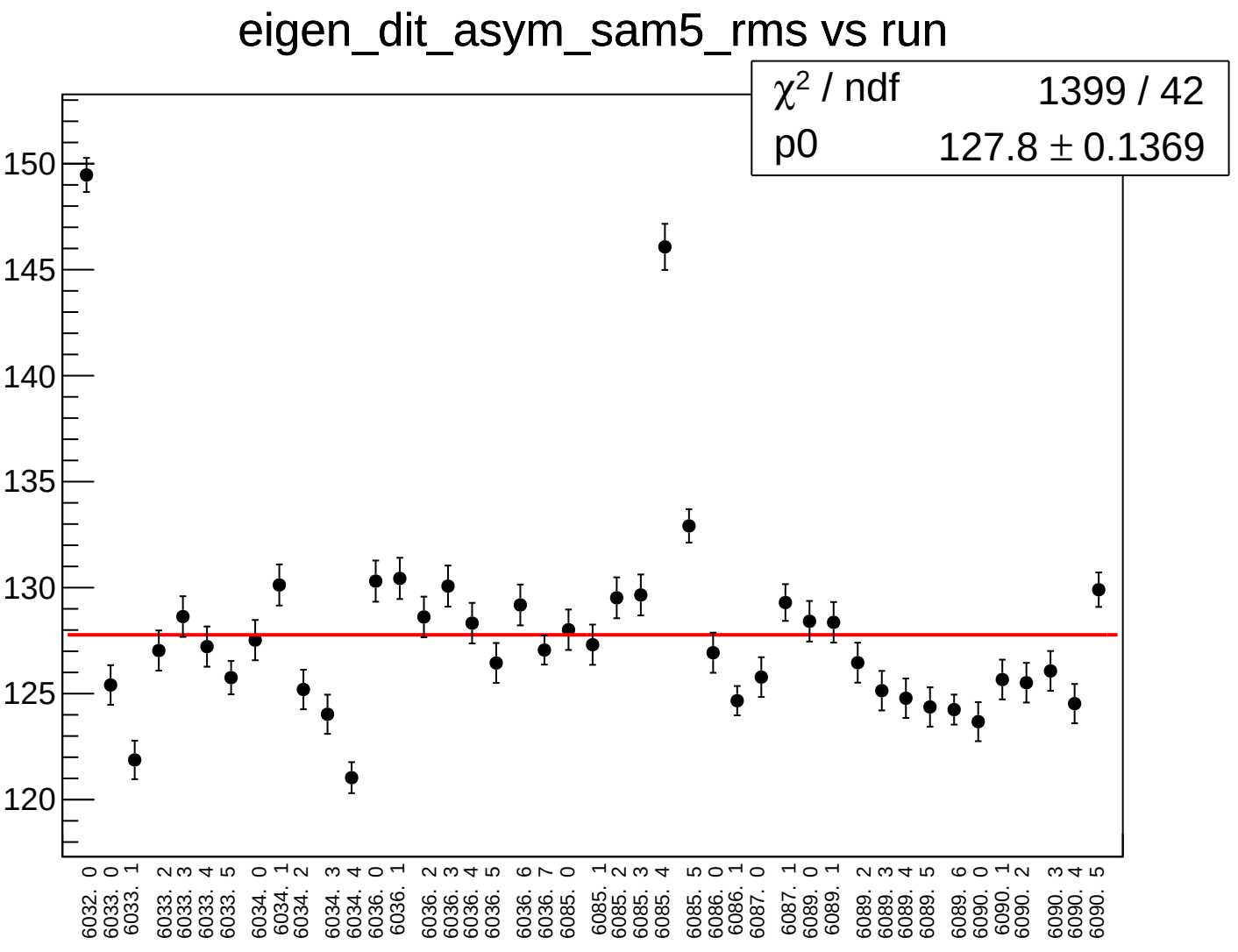

pull1D
Entries 43
Mean 0.009611
Std Dev 1.125

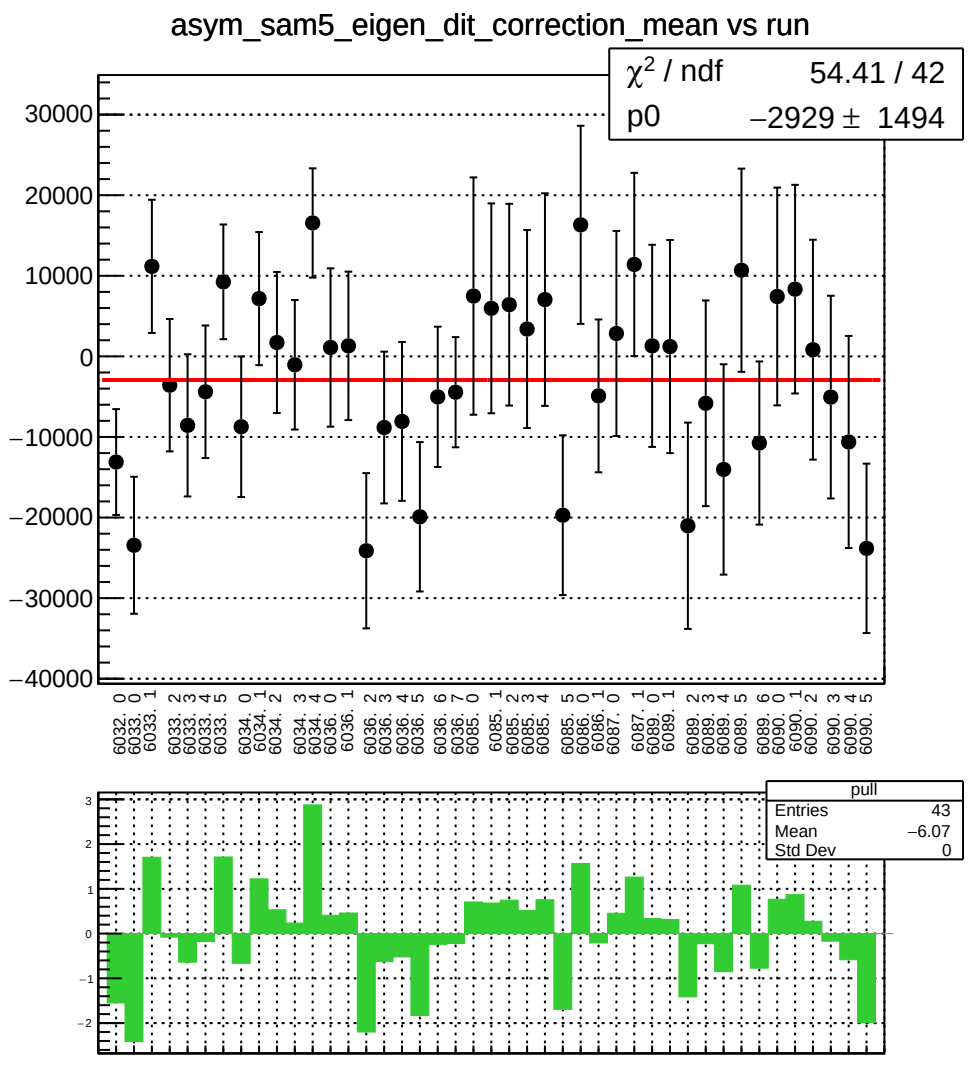

asym_sam5_dit_correction_rms vs run
χ² / ndf 3.241e+04 / 42
p0 968.6 ± 1.056
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

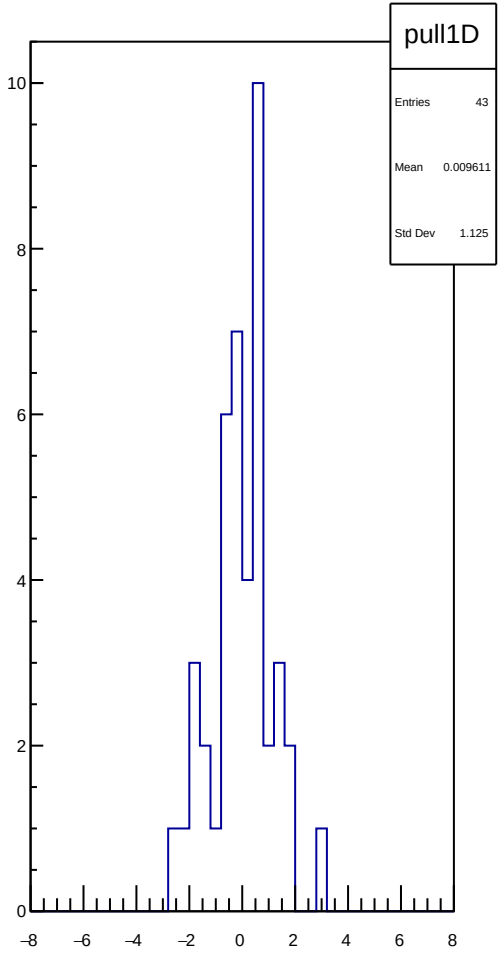

eigen_dit_asym_sam5_mean vs run
χ² / ndf 37.68 / 42
p0 −125.7 ± 193.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

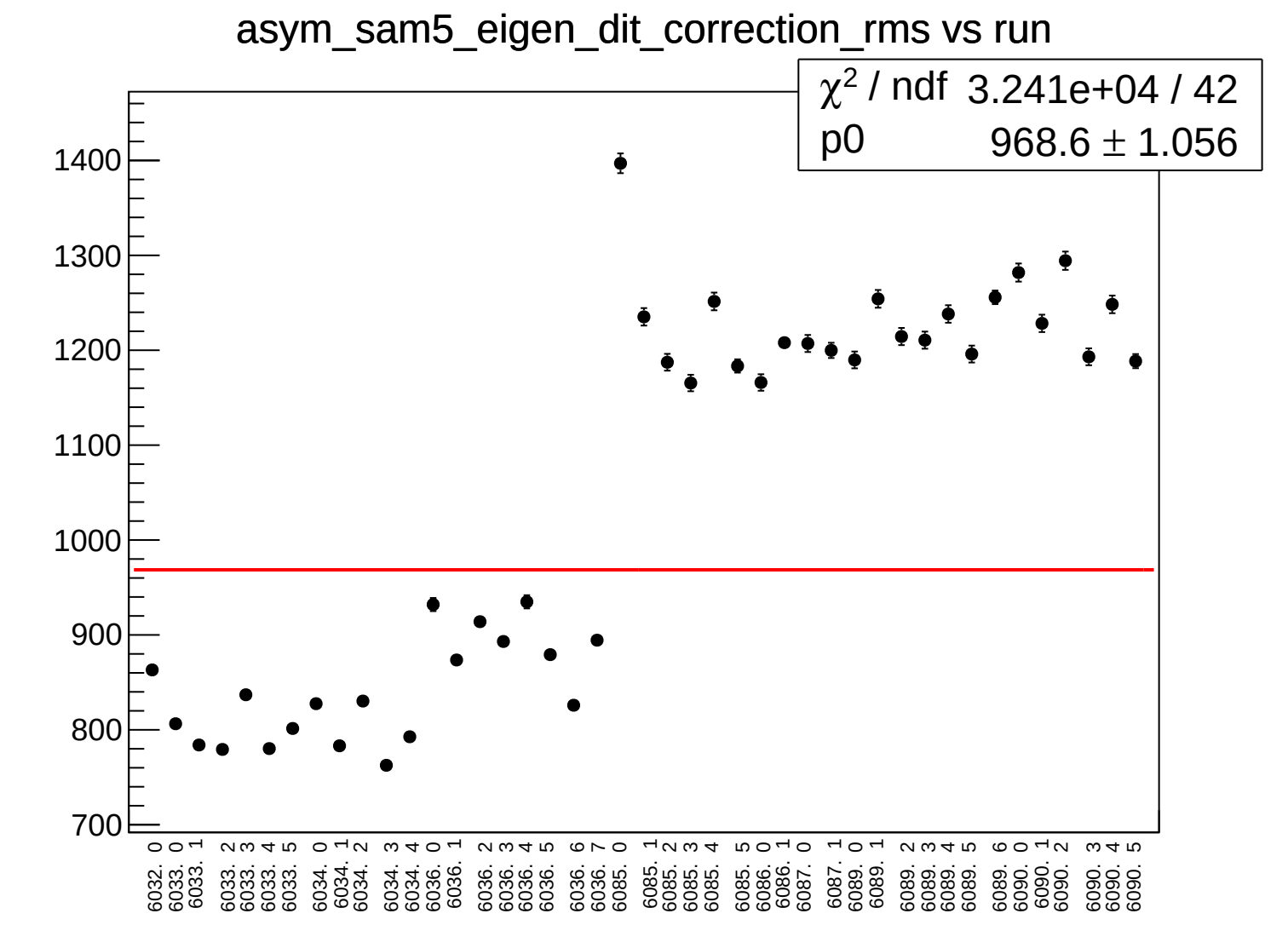

pull
Entries 43
Mean 98.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

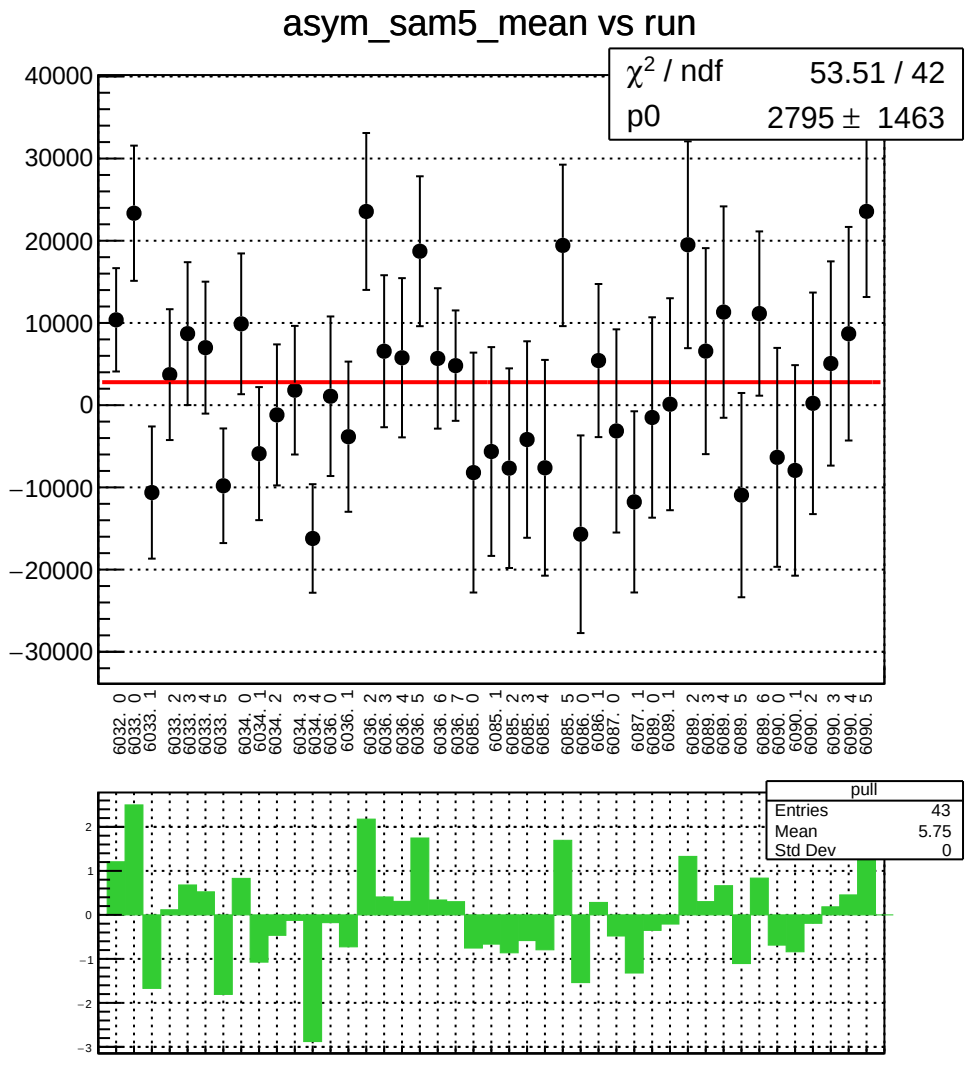

pull1D
Entries 43
Mean −0.006818
Std Dev 0.936
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

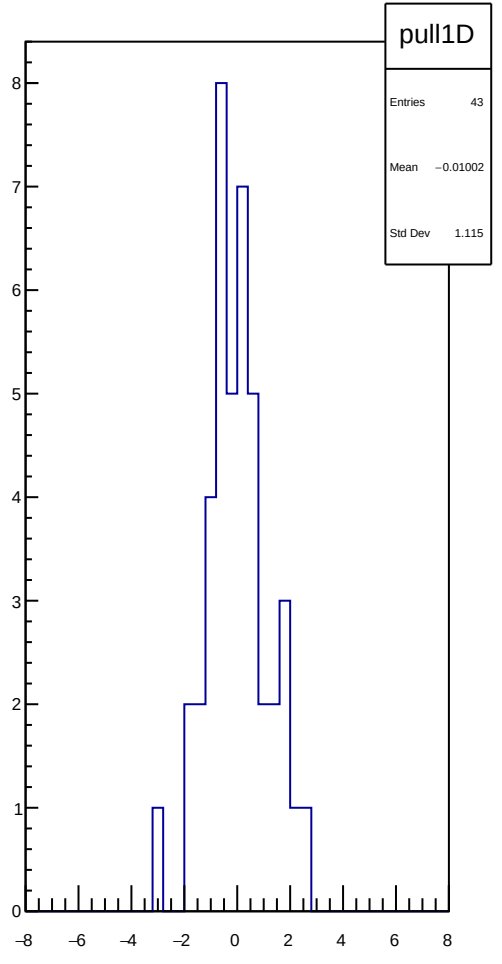

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1399 / 42
p0 127.8 ± 0.1369
150
145
140
135
130
125
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

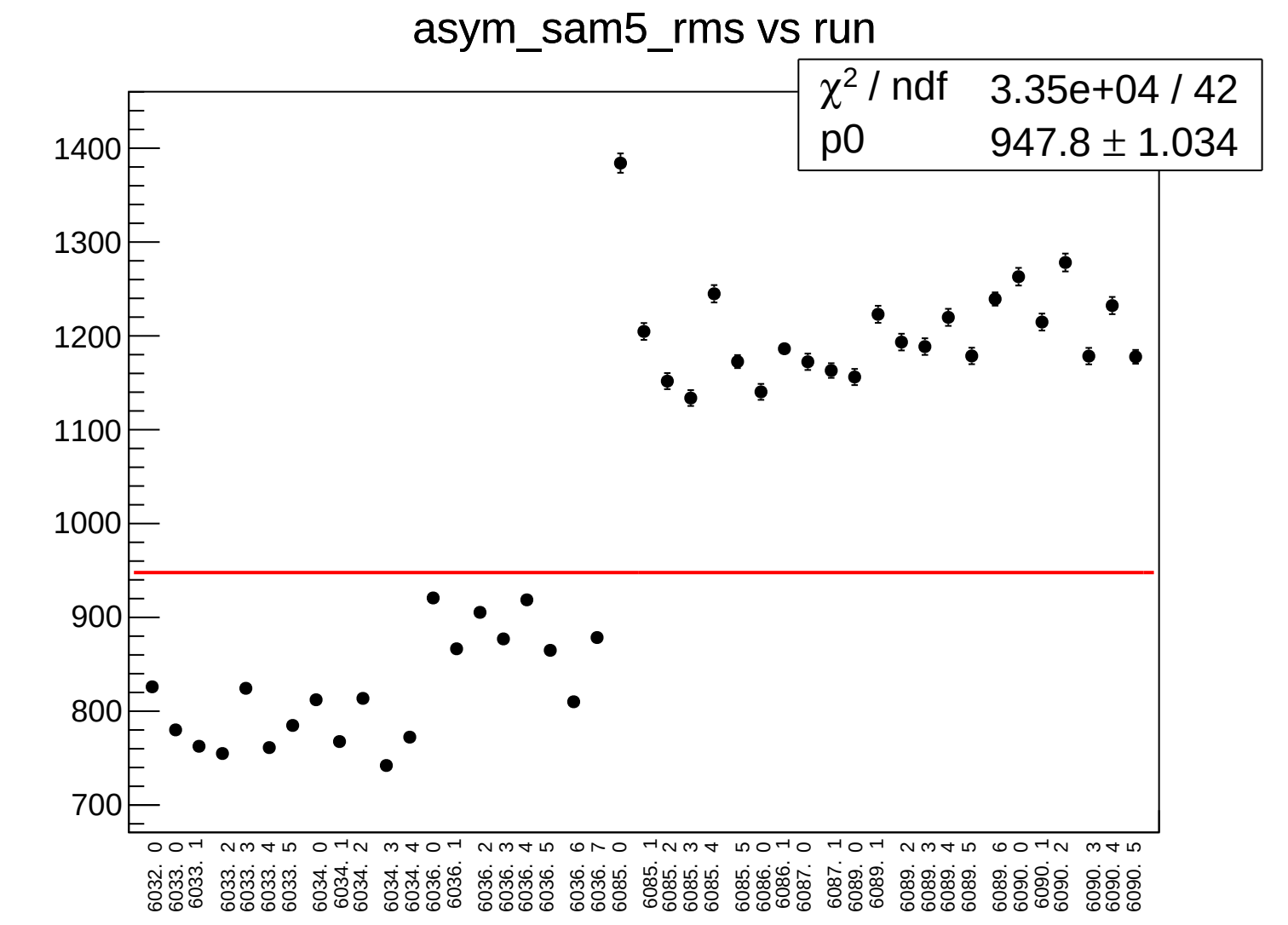

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 54.41 / 42
p0 −2929 ± 1494
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.07
Std Dev 0
3
2
1
0
−1
−2

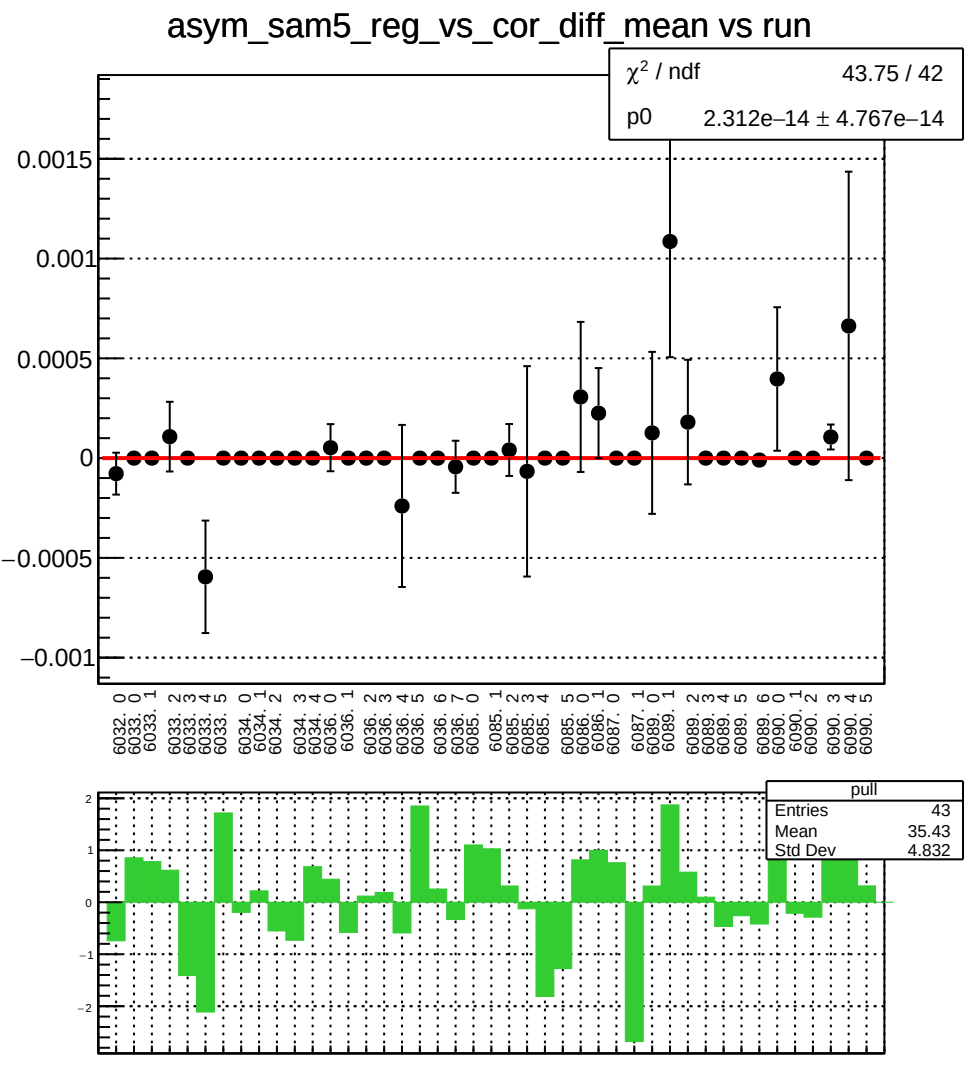

pull1D
Entries 43
Mean 0.009611
Std Dev 1.125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

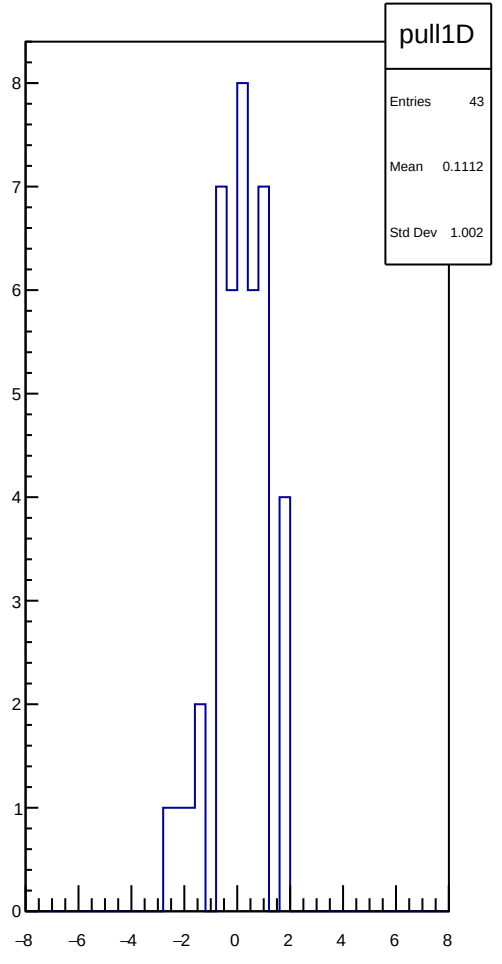

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3.241e+04 / 42
p0 968.6 ± 1.056
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

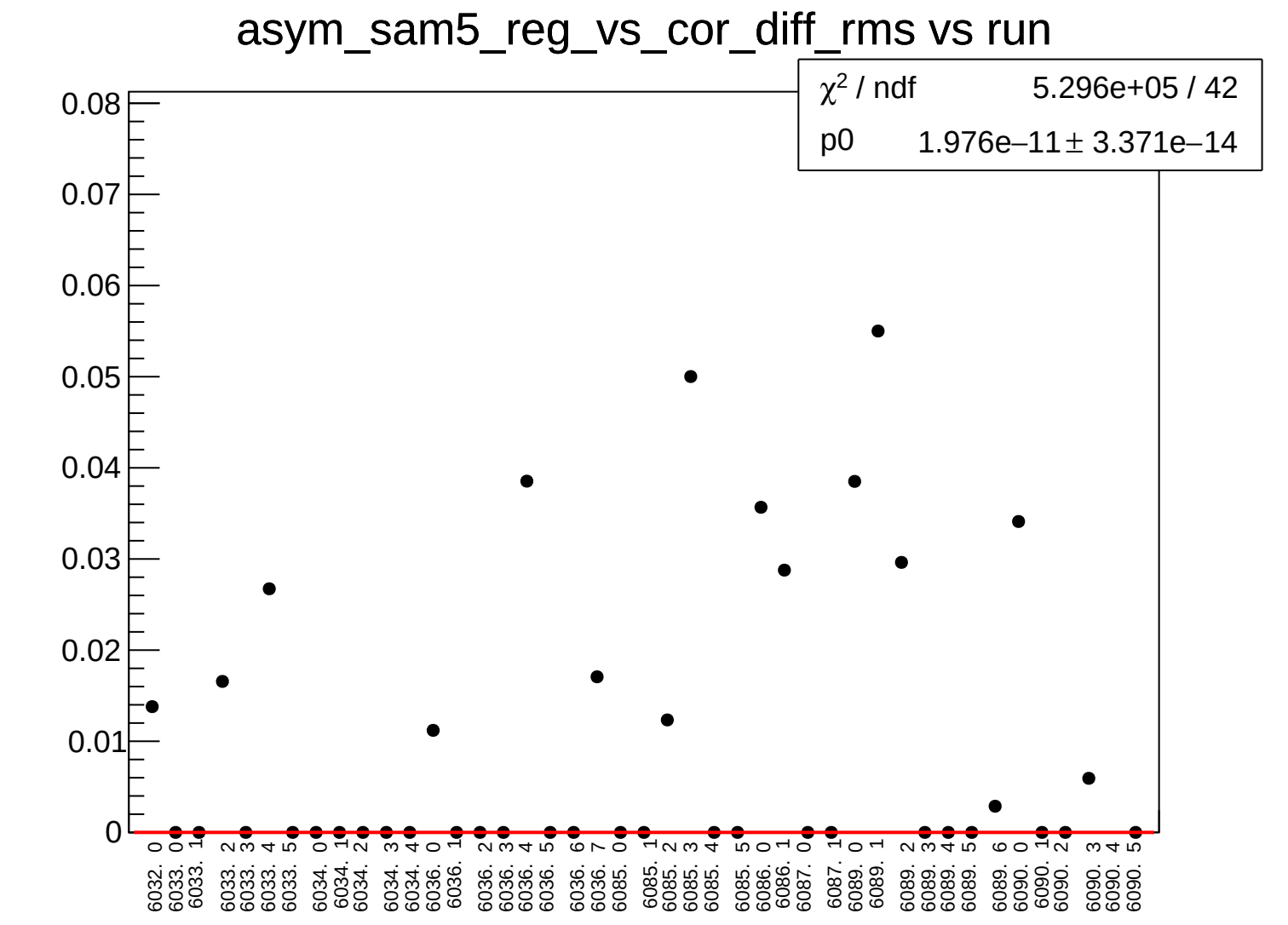

asym_sam5_mean vs run
χ² / ndf 53.51 / 42
p0 2795 ± 1463
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 5.75
Std Dev 0
2
1
0
−1
−2
−3

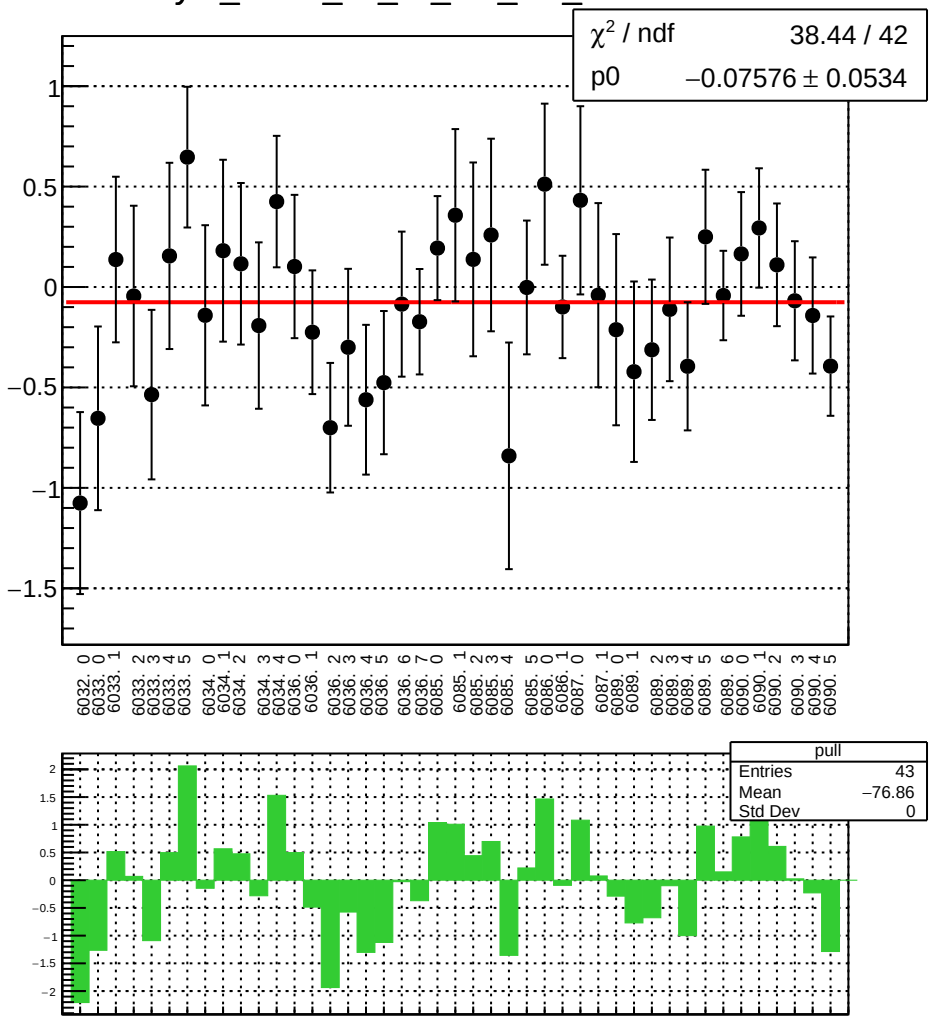

pull1D
Entries 43
Mean −0.01002
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

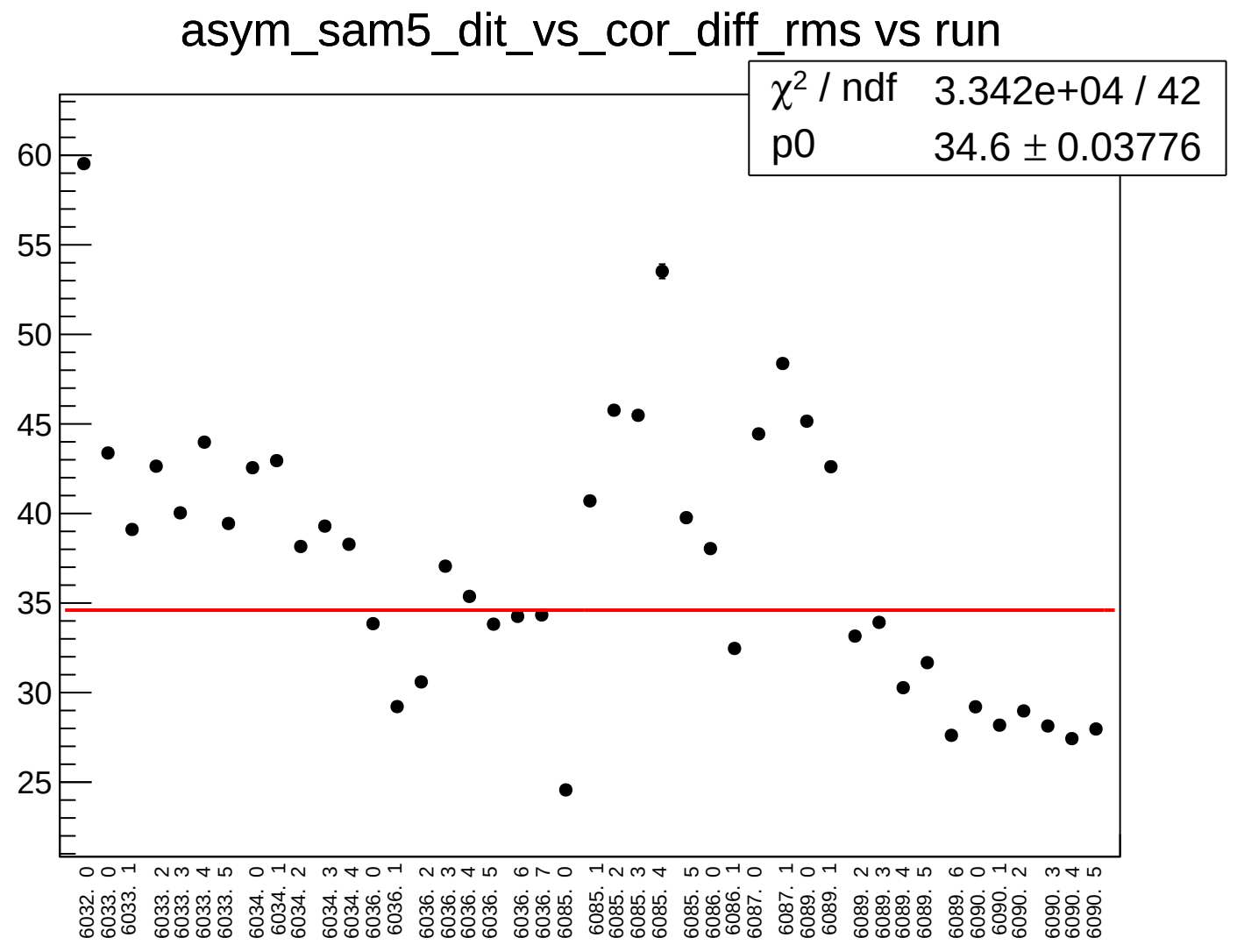

asym_sam5_rms vs run
χ² / ndf 3.35e+04 / 42
p0 947.8 ± 1.034
1400
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

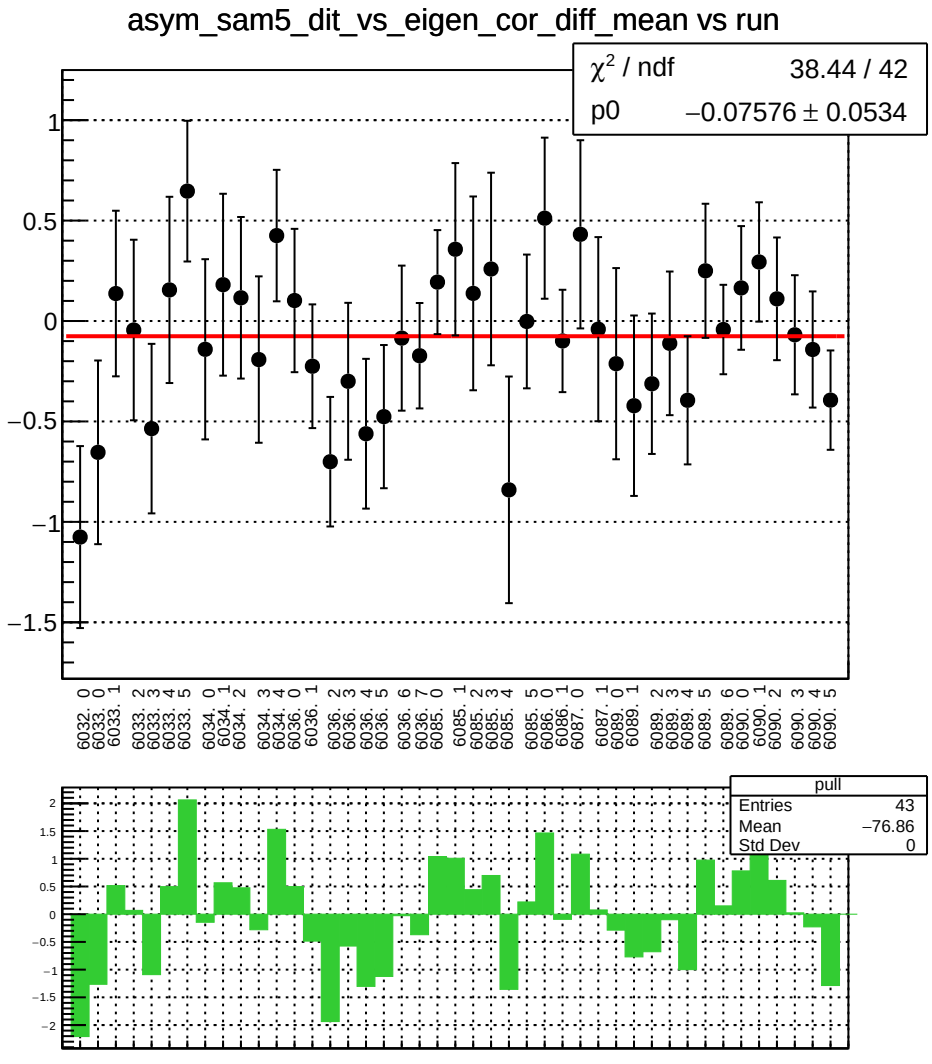

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 43.75 / 42
p0 2.312e−14 ± 4.767e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 35.43
Std Dev 4.832
2
1
0
−1
−2

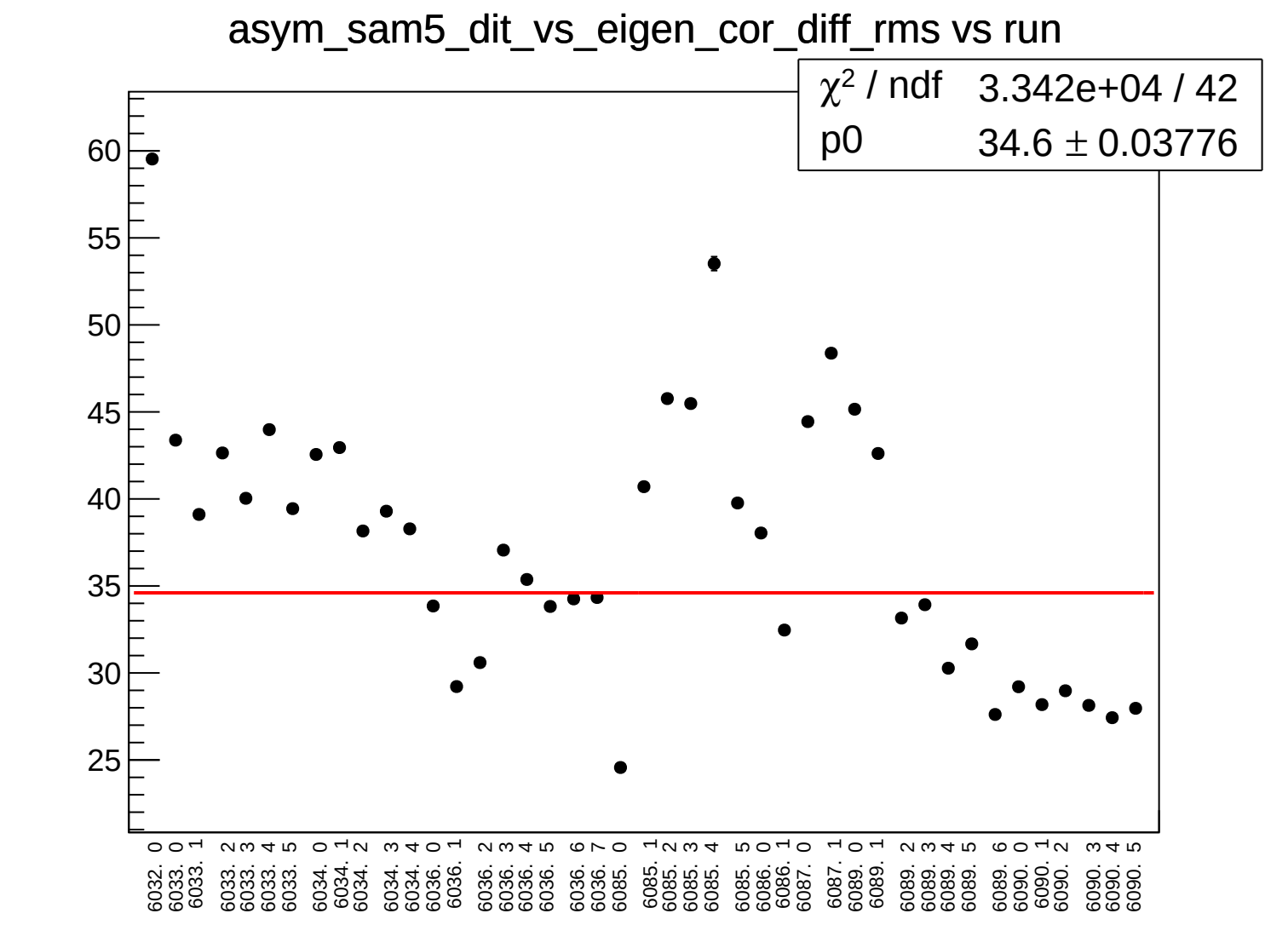

pull1D
Entries 43
Mean 0.1112
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

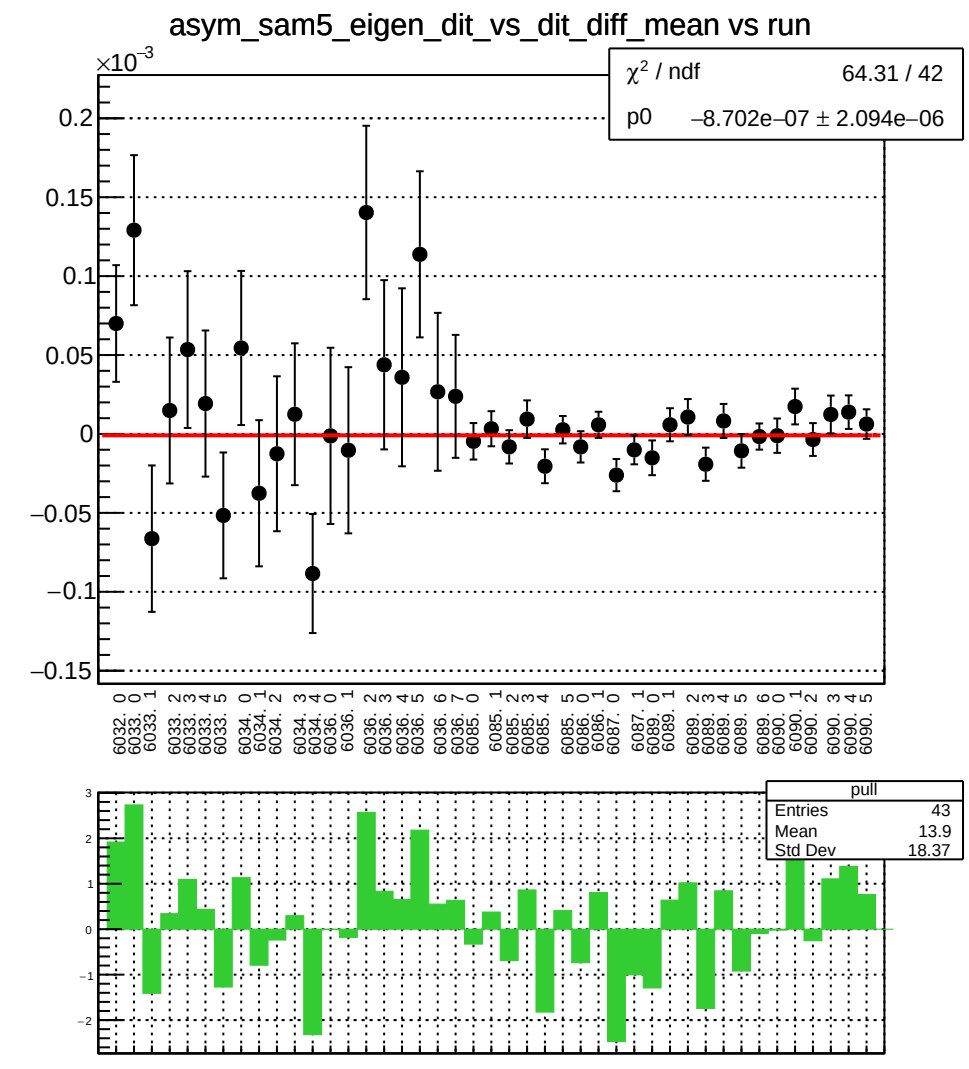

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 5.296e+05 / 42
p0 1.976e−11 ± 3.371e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

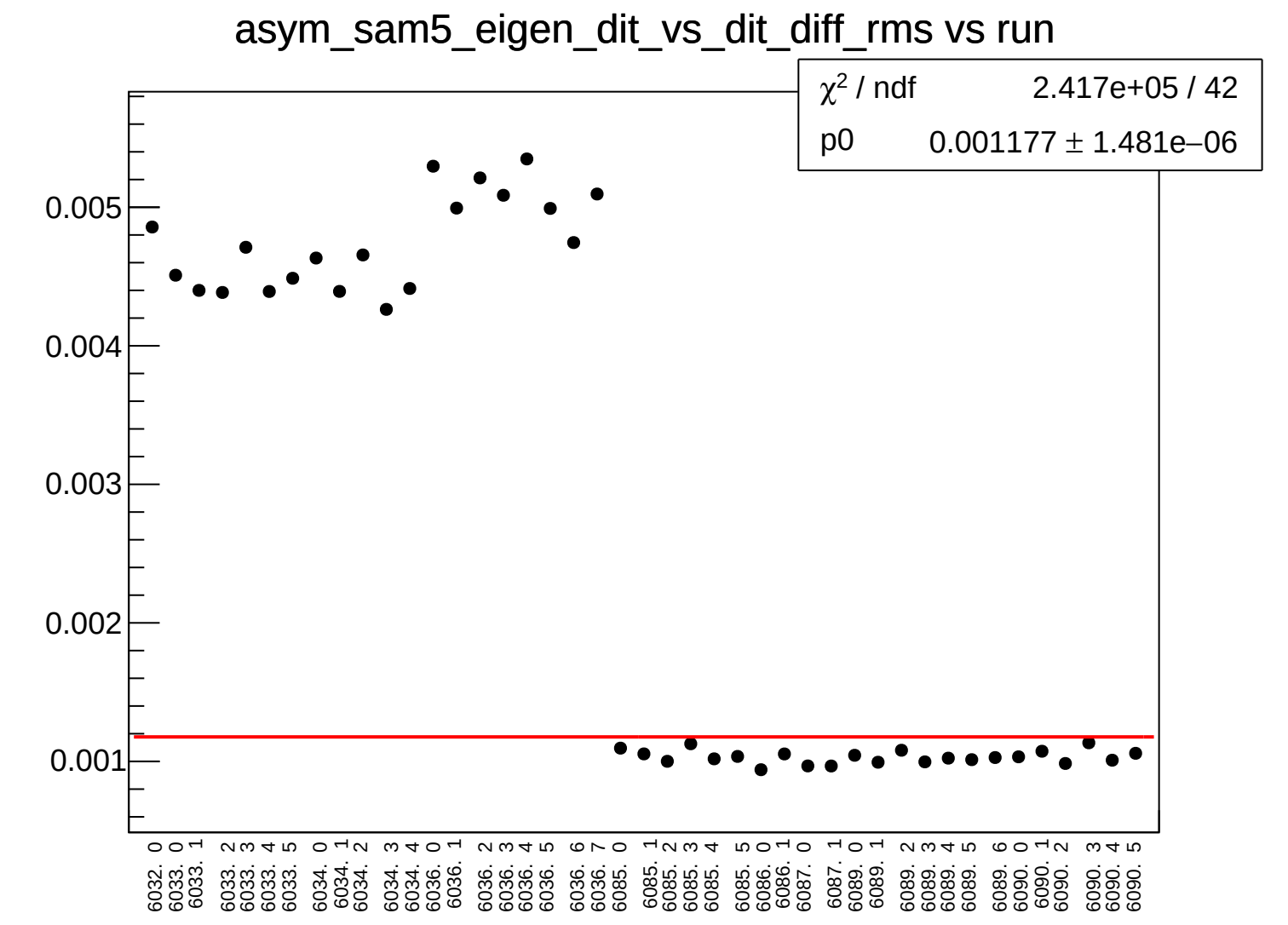

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 38.44 / 42
p0 −0.07576 ± 0.0534
pull
Entries 43
Mean −76.86
Std Dev 0
pull1D
Entries 43
Mean −0.01307
Std Dev 0.9454

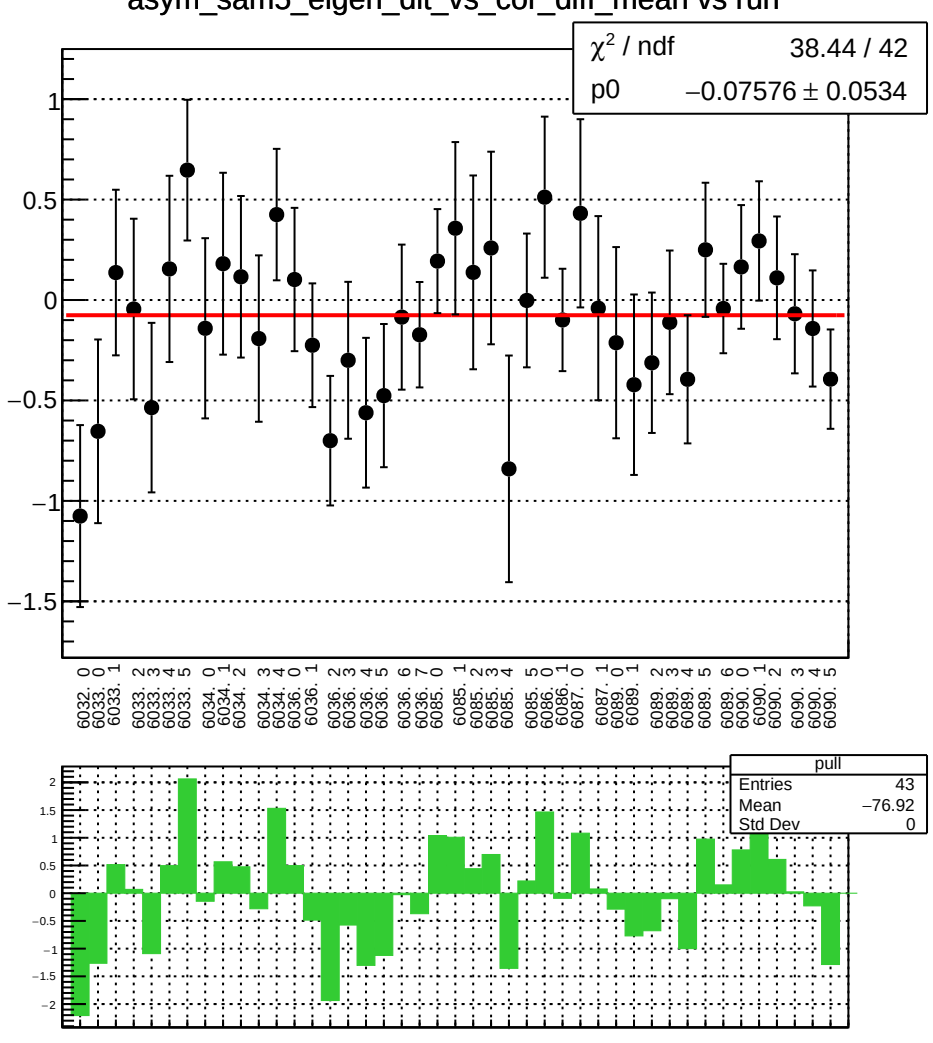

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 42
p0 34.6 ± 0.03776
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

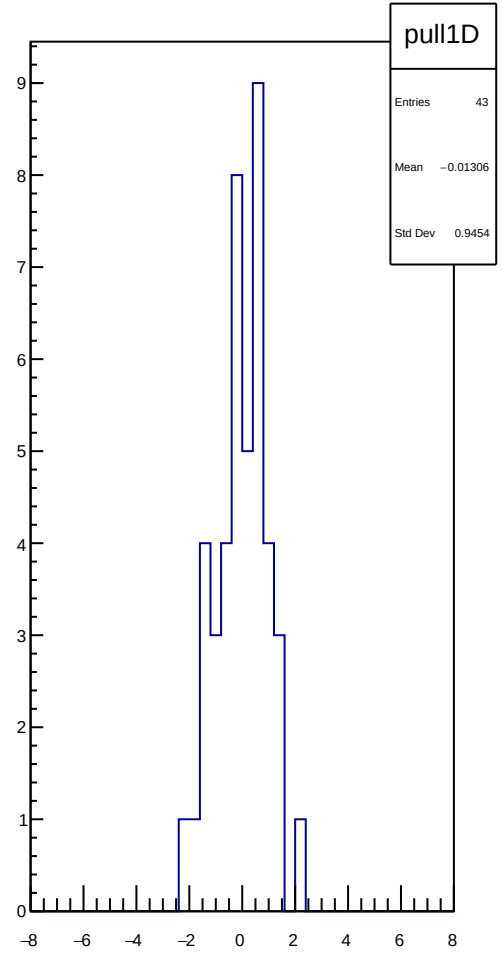

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.44 / 42
p0 −0.07576 ± 0.0534
pull
Entries 43
Mean −76.86
Std Dev 0
pull1D
Entries 43
Mean −0.01307
Std Dev 0.9454

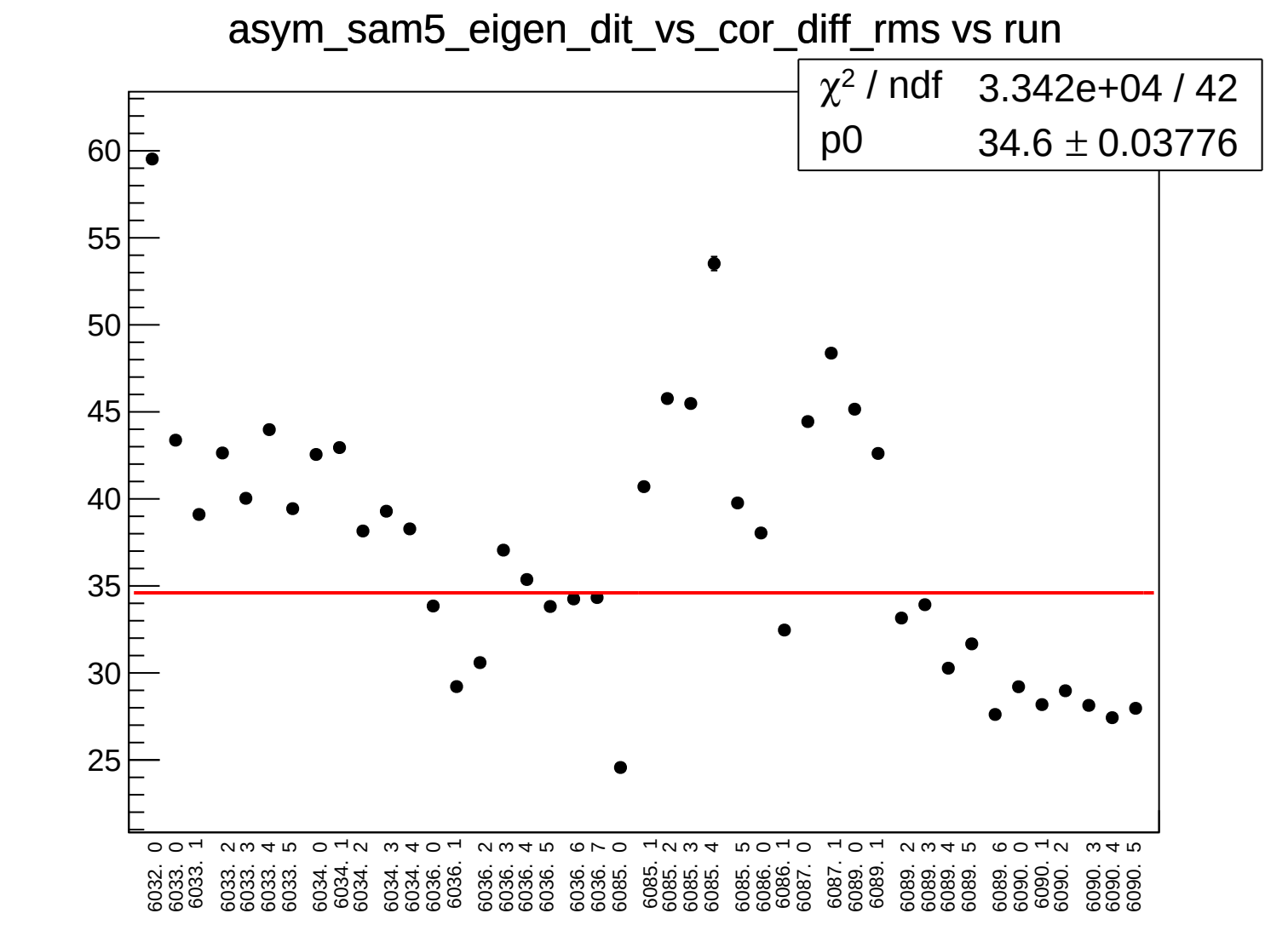

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 42
p0 34.6 ± 0.03776
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

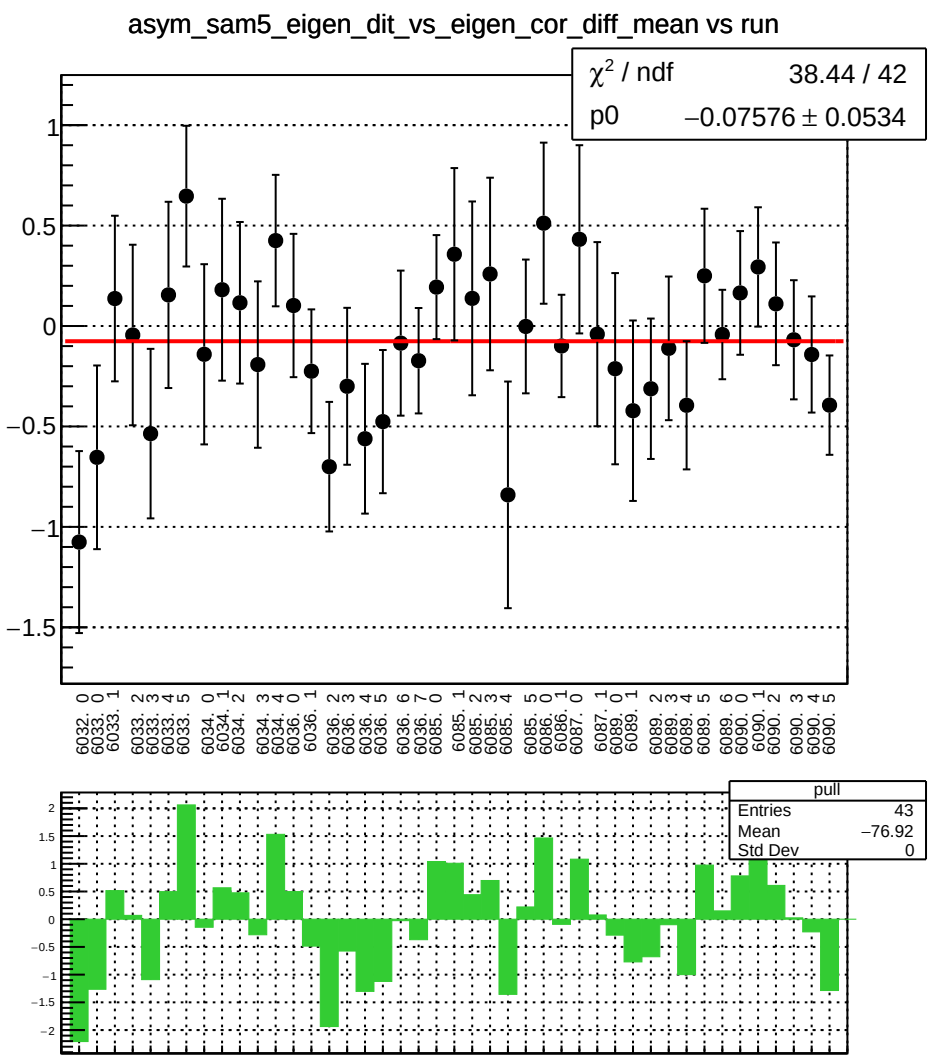

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.31 / 42
p0 −8.702e−07 ± 2.094e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.9
Std Dev 18.37
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1765
Std Dev 1.21
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

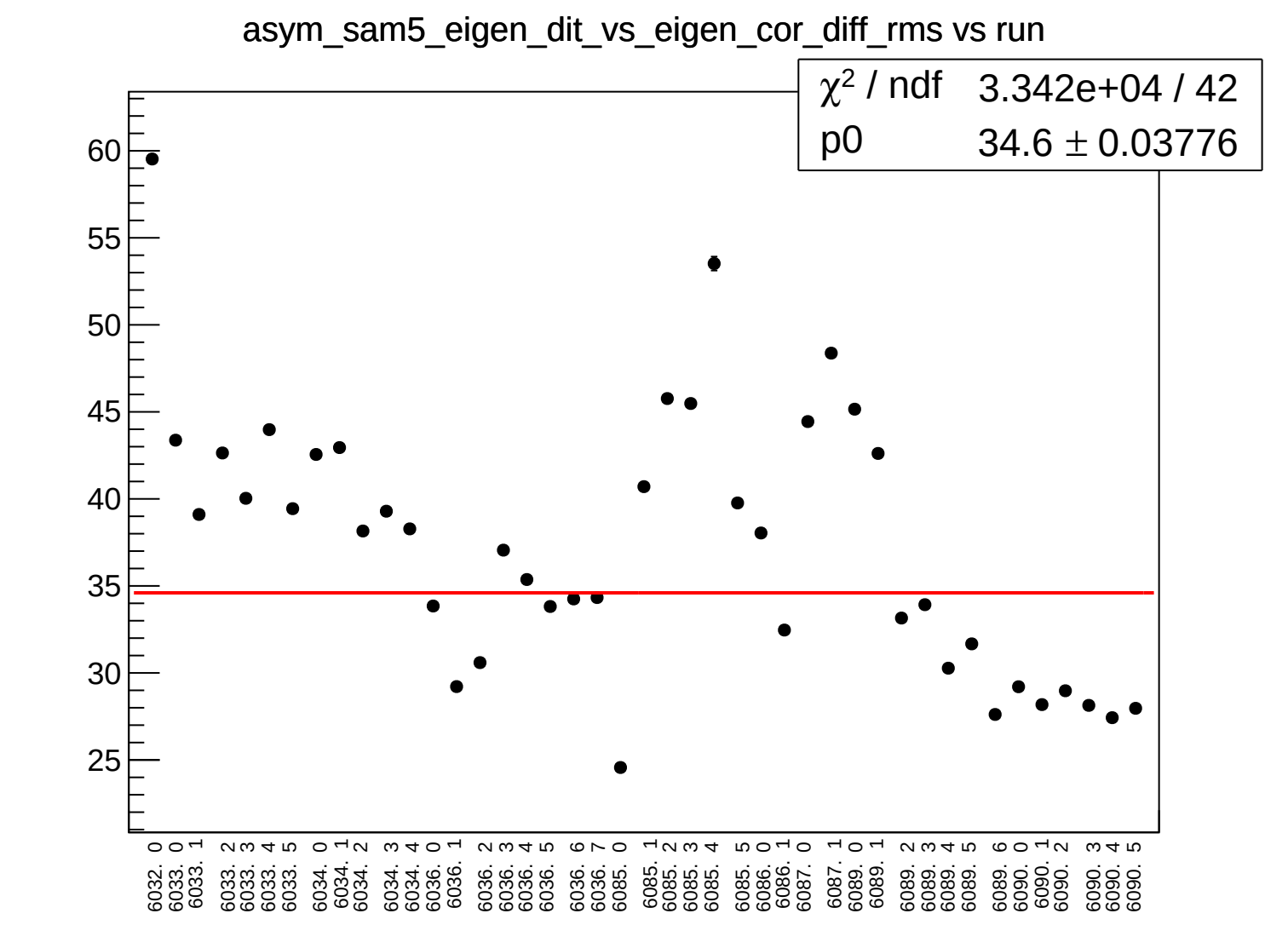

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.417e+05 / 42
p0 0.001177 ± 1.481e−06
0.005
0.004
0.003
0.002
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

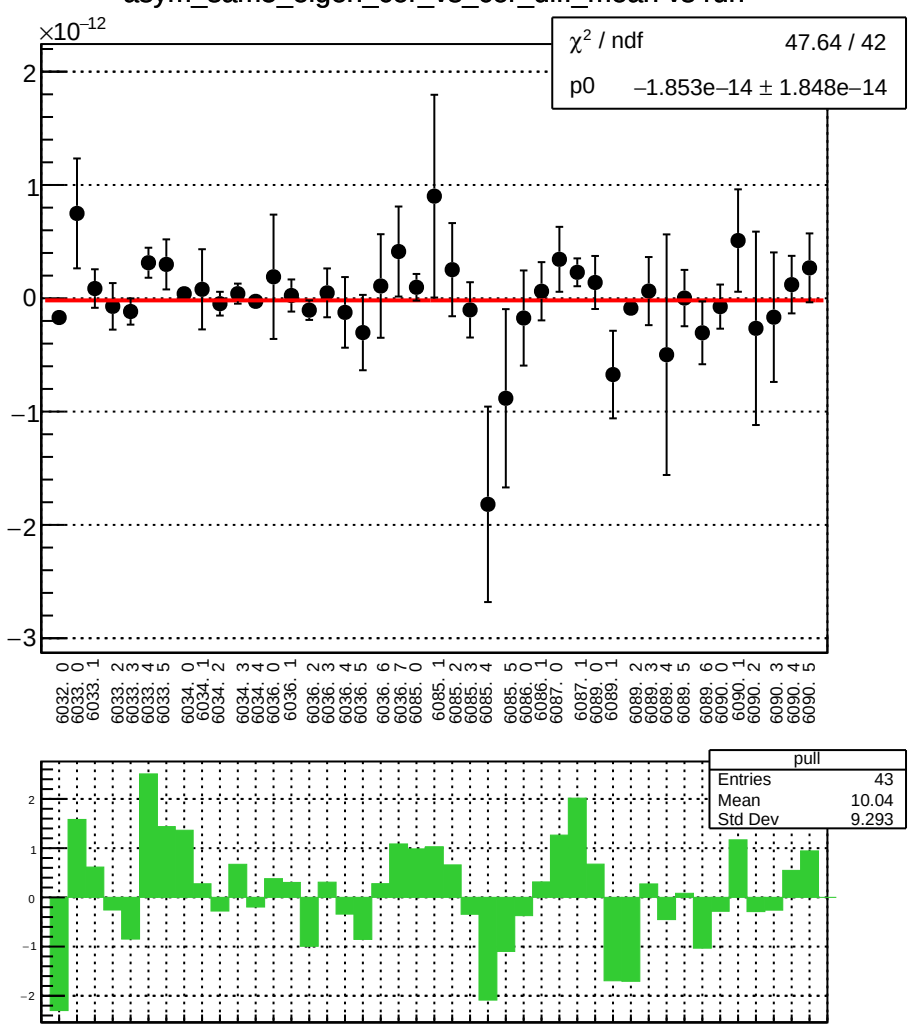

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.44 / 42
p0 −0.07576 ± 0.0534
pull
Entries 43
Mean −76.92
Std Dev 0

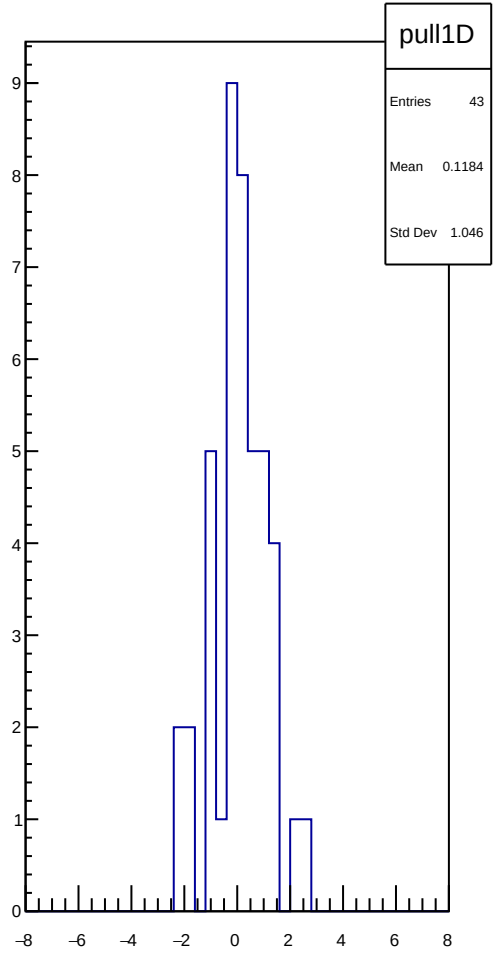

pull1D
Entries 43
Mean −0.01306
Std Dev 0.9454

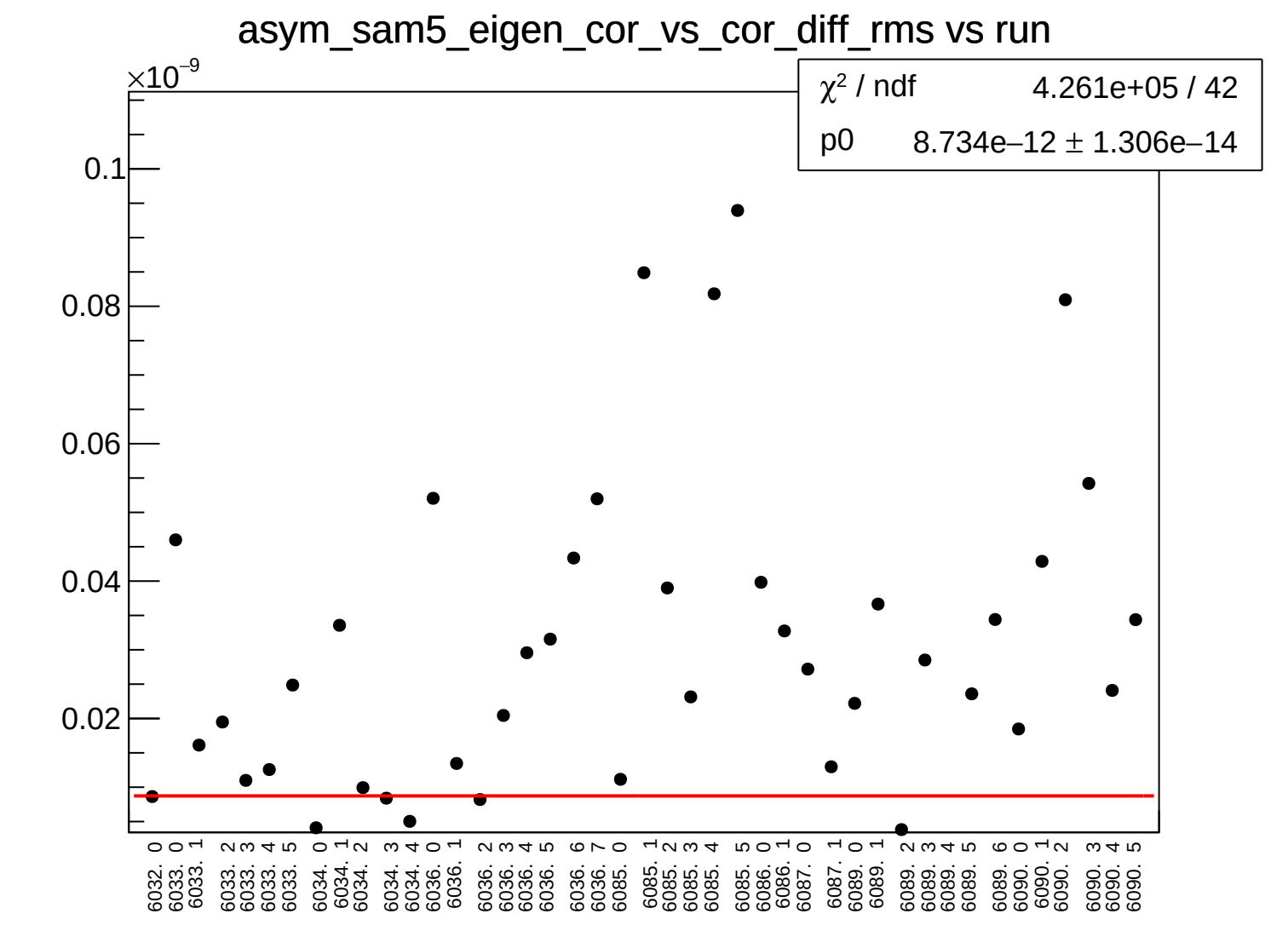

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 42
p0 34.6 ± 0.03776
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

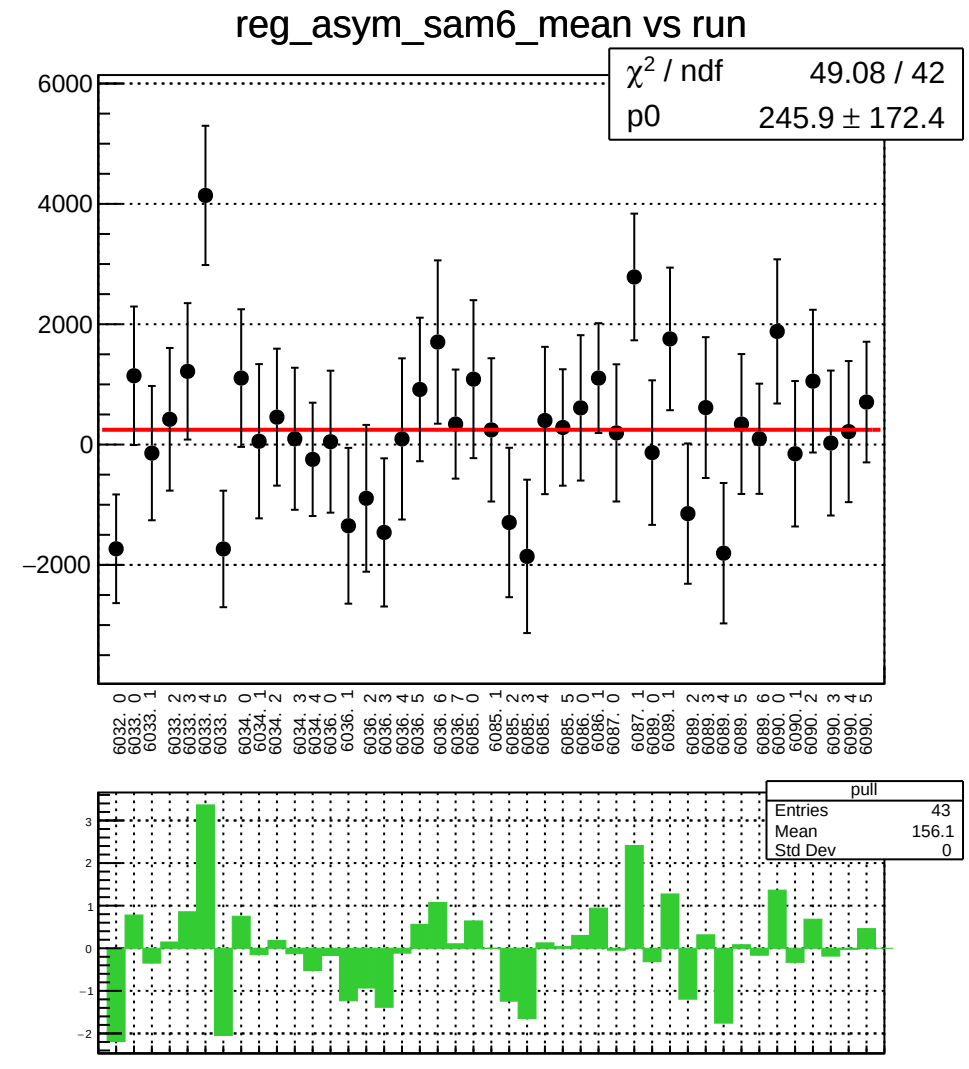

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.44 / 42
p0 −0.07576 ± 0.0534
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −76.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01306
Std Dev 0.9454
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

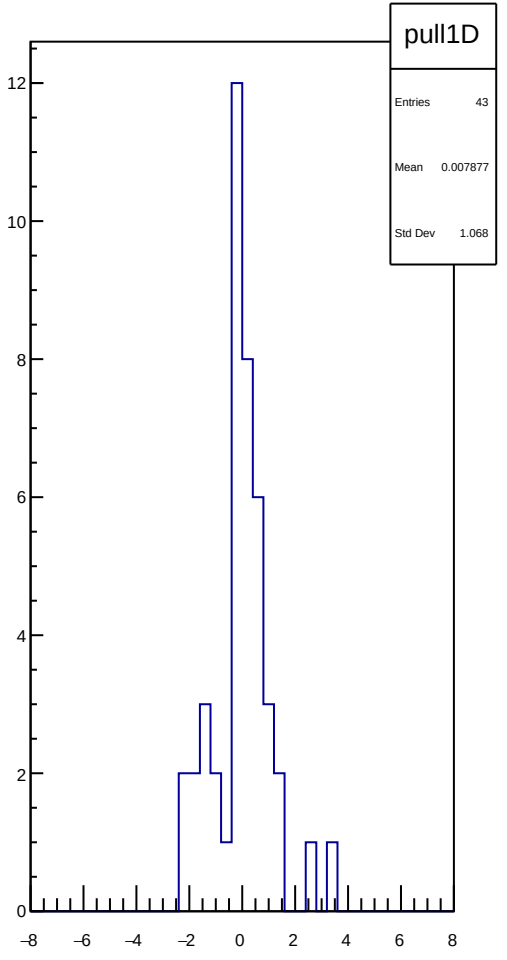

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.342e+04 / 42
p0 34.6 ± 0.03776
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

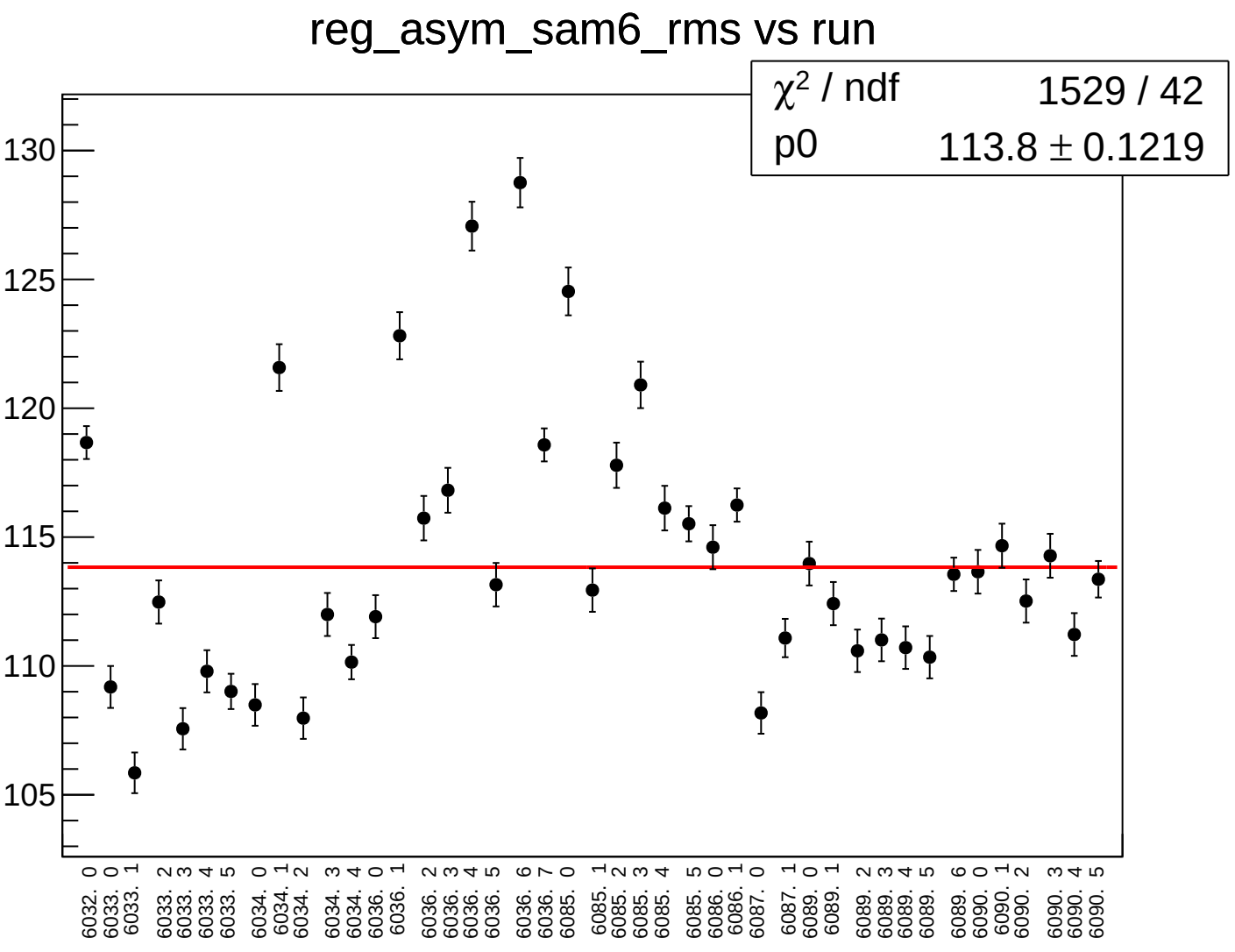

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.64 / 42
p0 −1.853e−14 ± 1.848e−14
pull
Entries 43
Mean 10.04
Std Dev 9.293

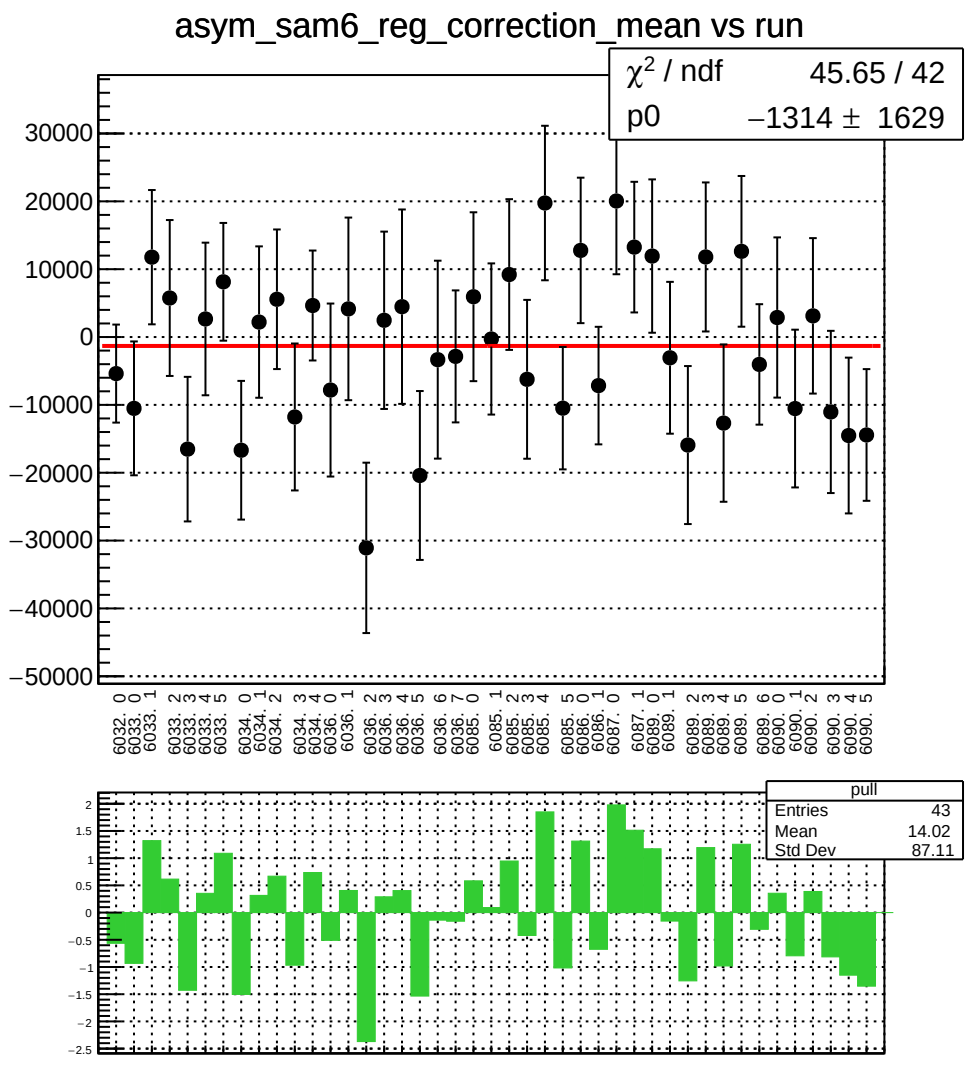

pull1D
Entries 43
Mean 0.1184
Std Dev 1.046

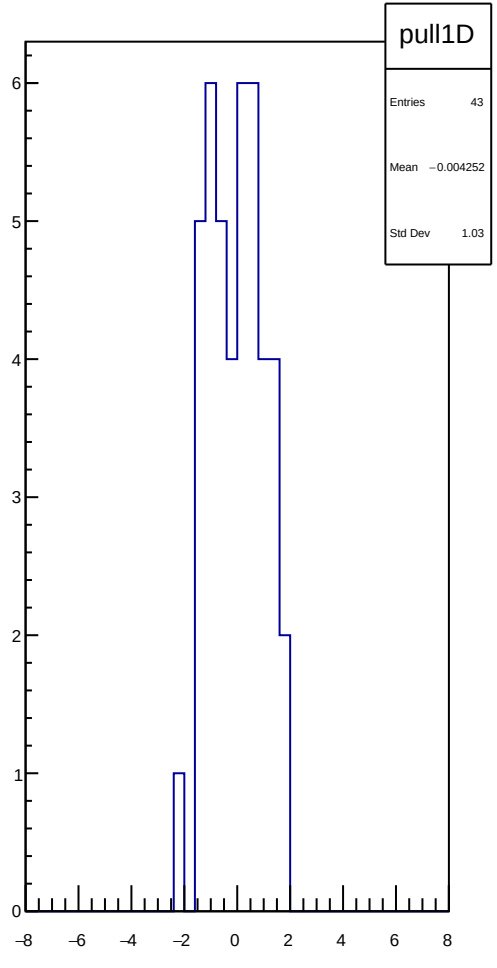

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.261e+05 / 42
p0 8.734e−12 ± 1.306e−14
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

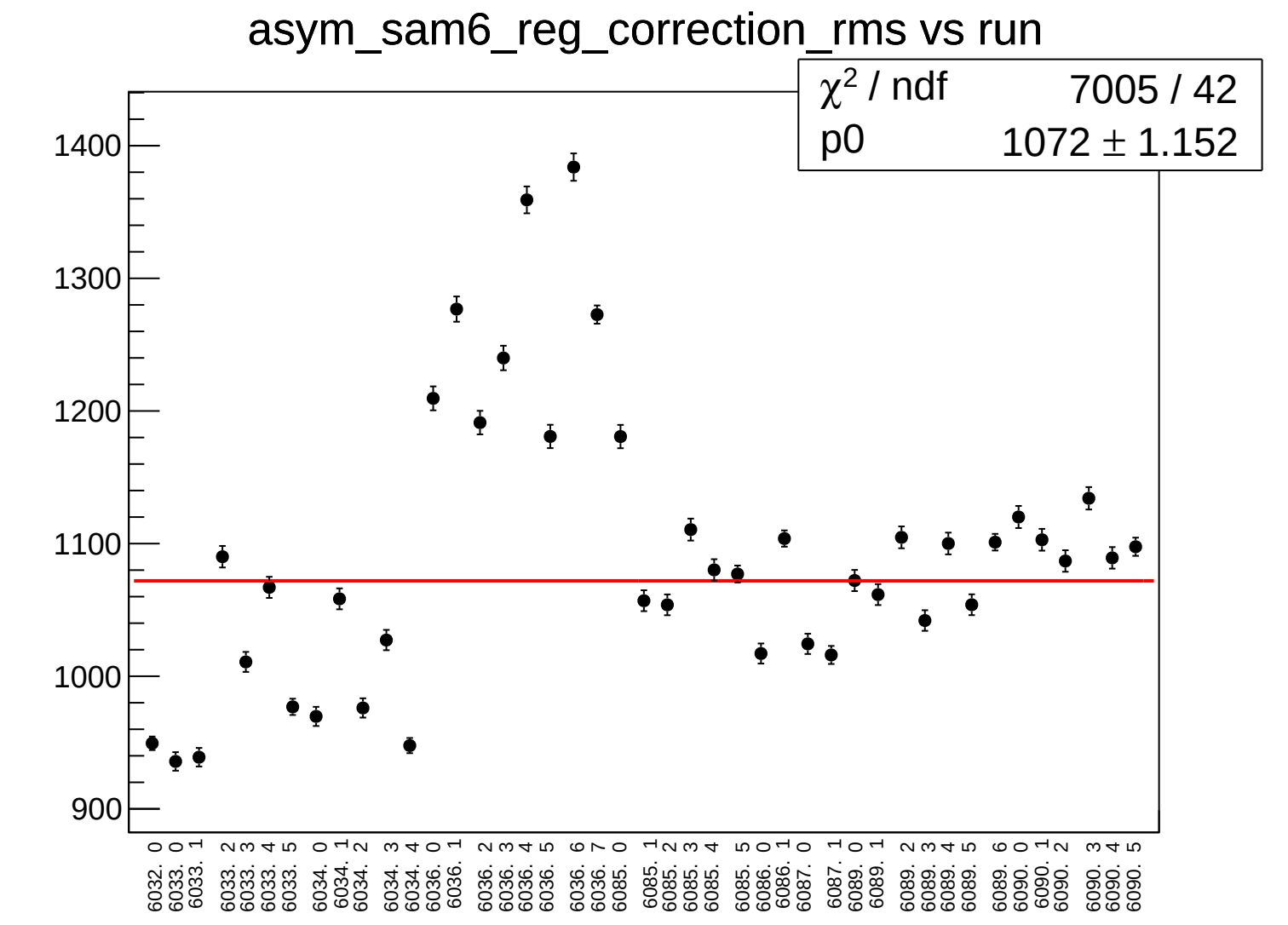

reg_asym_sam6_mean vs run
χ² / ndf 49.08 / 42
p0 245.9 ± 172.4
6000
4000
2000
0
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 156.1
Std Dev 0
3
2
1
0
−1
−2

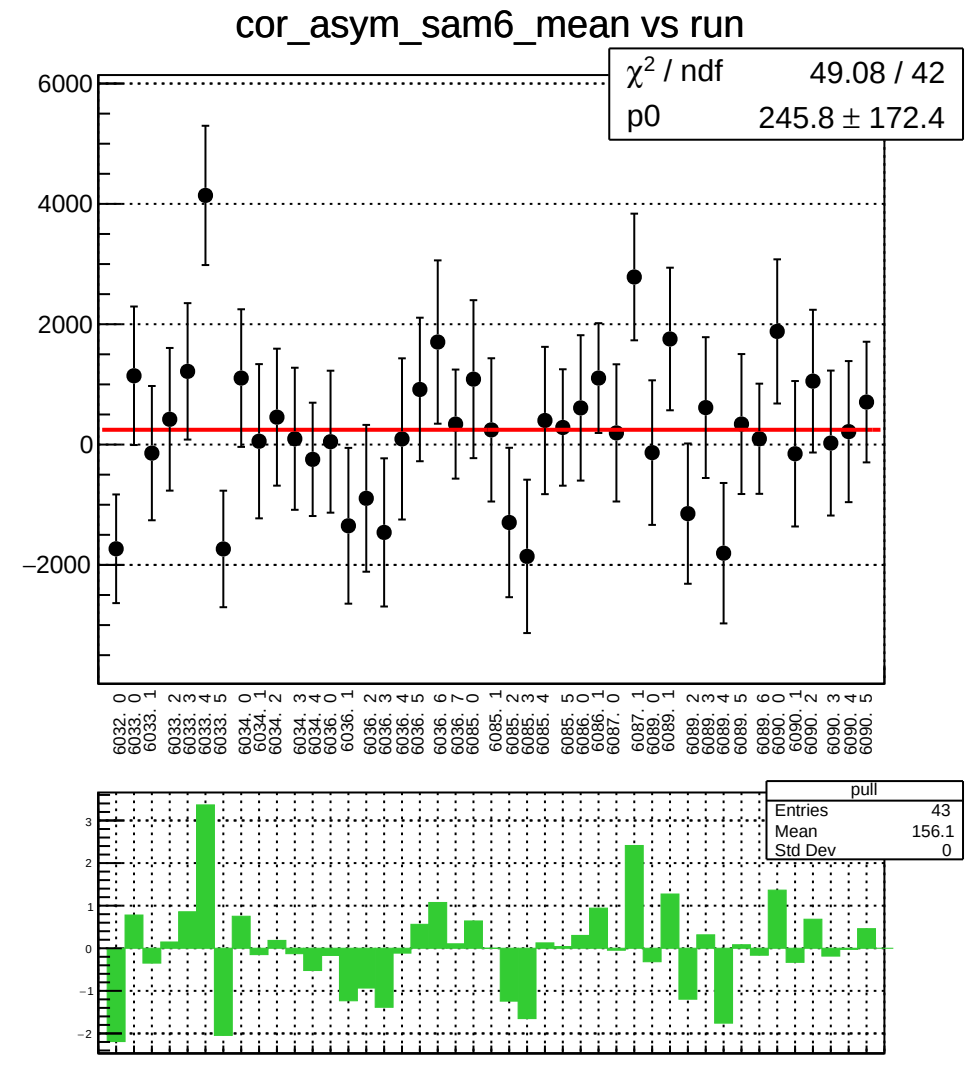

pull1D
Entries 43
Mean 0.007877
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

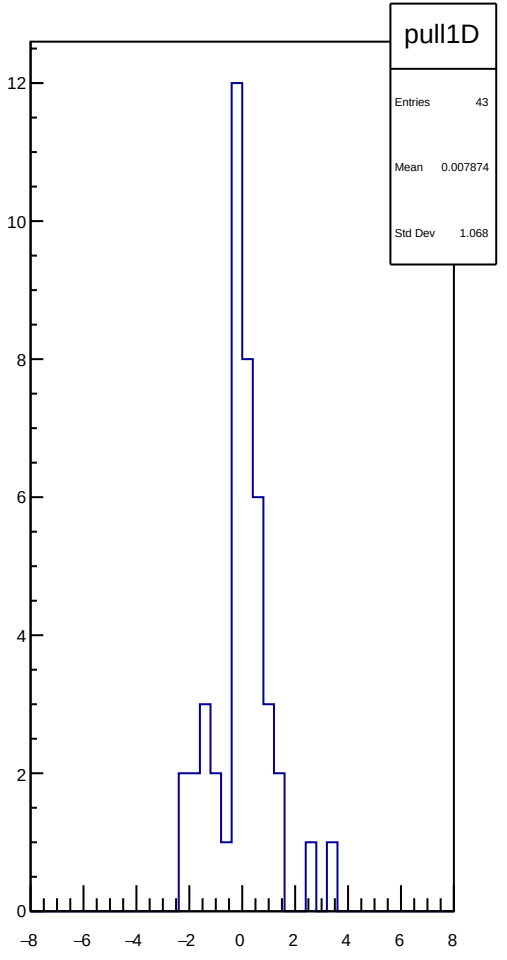

reg_asym_sam6_rms vs run
χ² / ndf 1529 / 42
p0 113.8 ± 0.1219
130
125
120
115
110
105
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

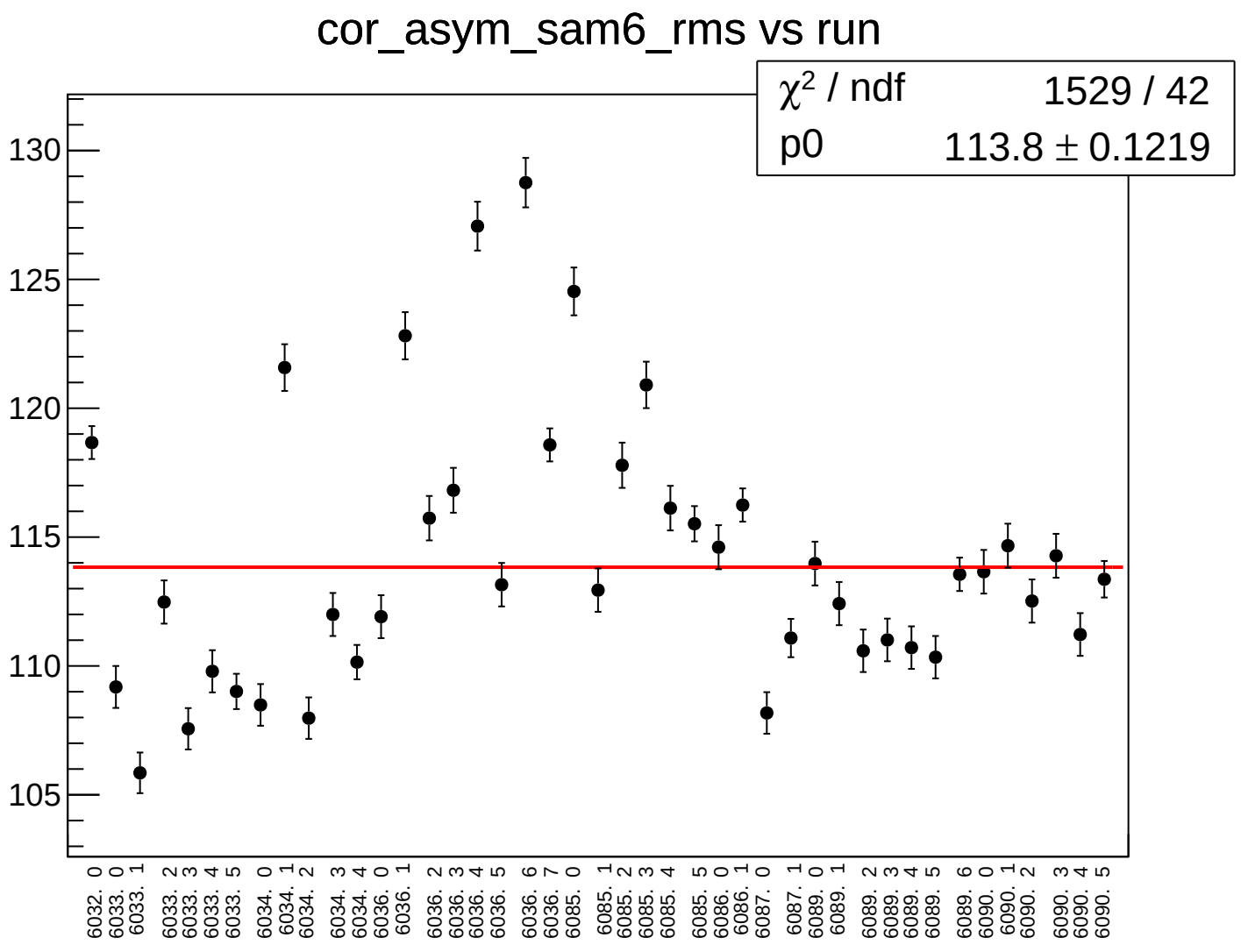

asym_sam6_reg_correction_mean vs run
χ² / ndf 45.65 / 42
p0 −1314 ± 1629
pull
Entries 43
Mean 14.02
Std Dev 87.11

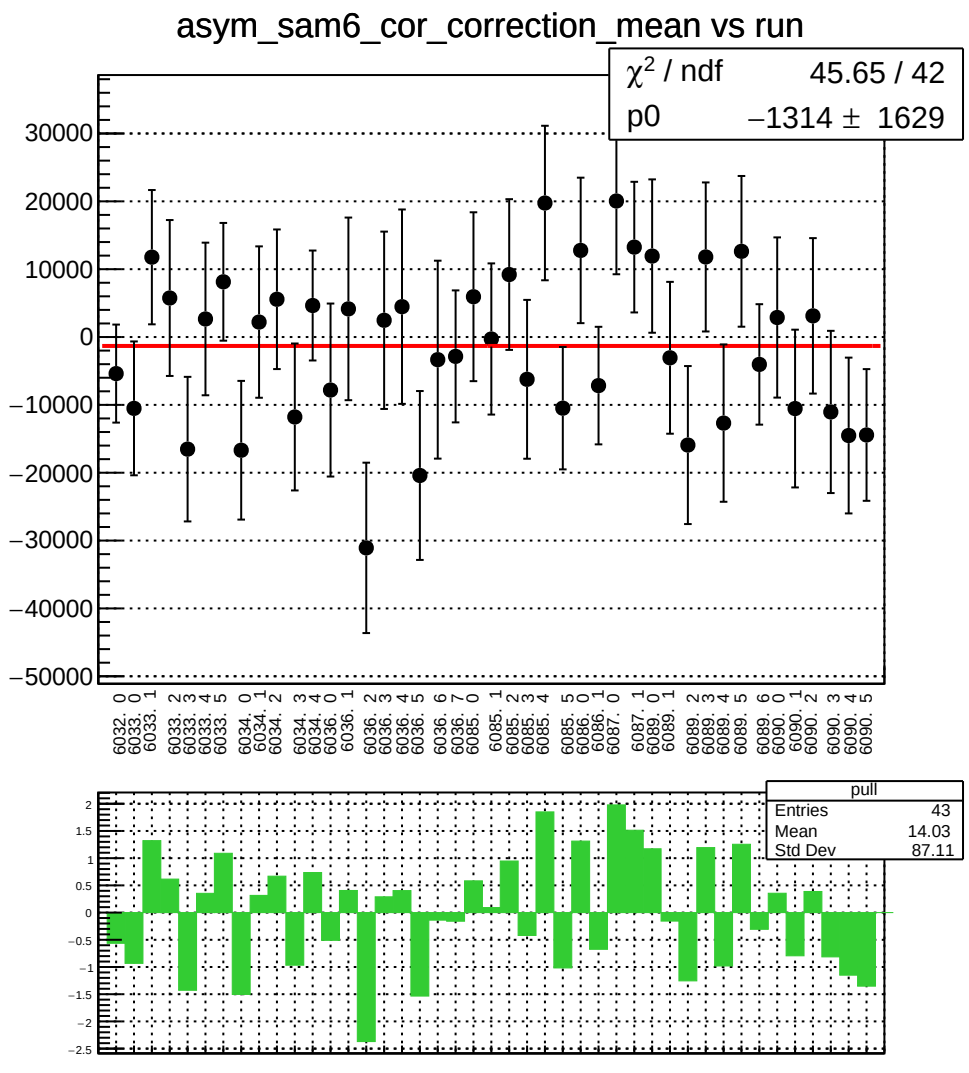

pull1D
Entries 43
Mean −0.004252
Std Dev 1.03

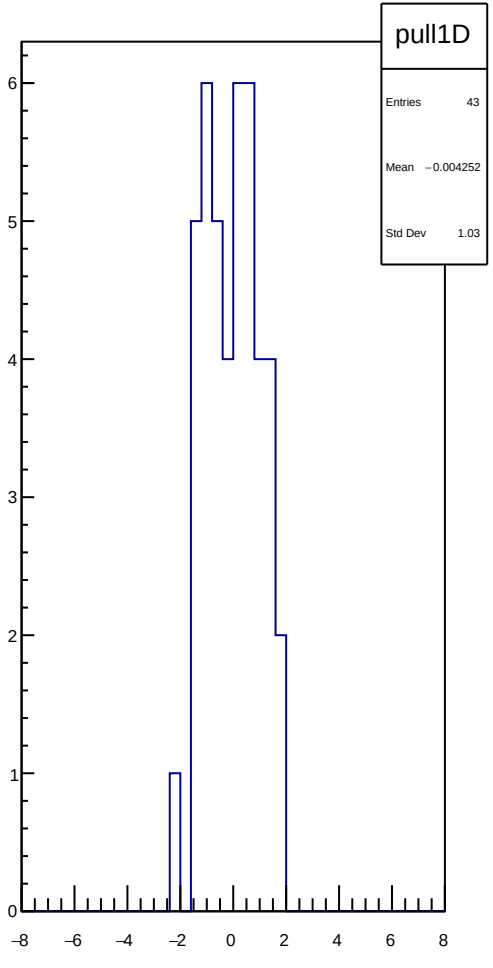

asym_sam6_reg_correction_rms vs run
χ² / ndf 7005 / 42
p0 1072 ± 1.152
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

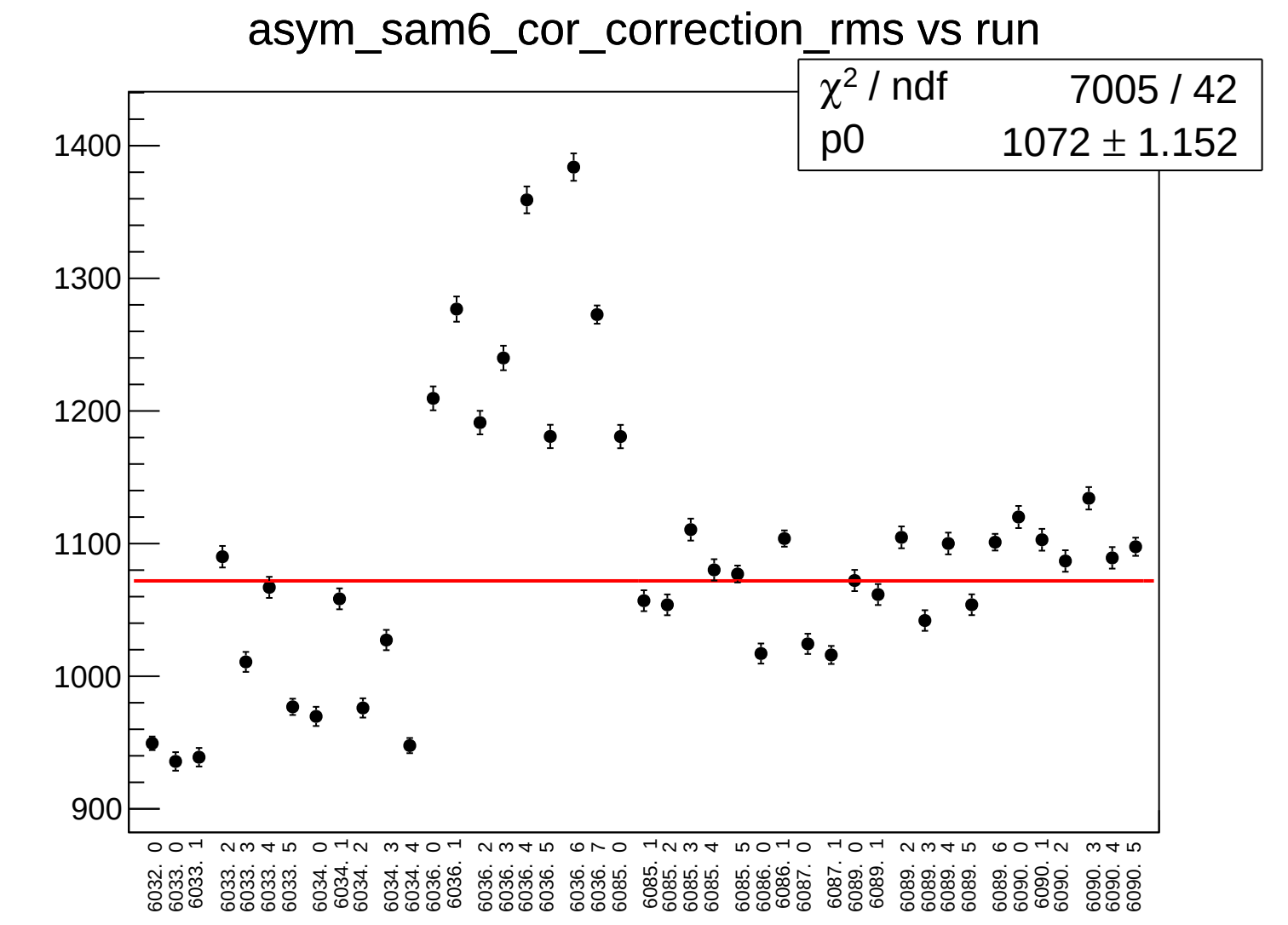

cor_asym_sam6_mean vs run
χ² / ndf 49.08 / 42
p0 245.8 ± 172.4
6000
4000
2000
0
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 156.1
Std Dev 0
3
2
1
0
−1
−2

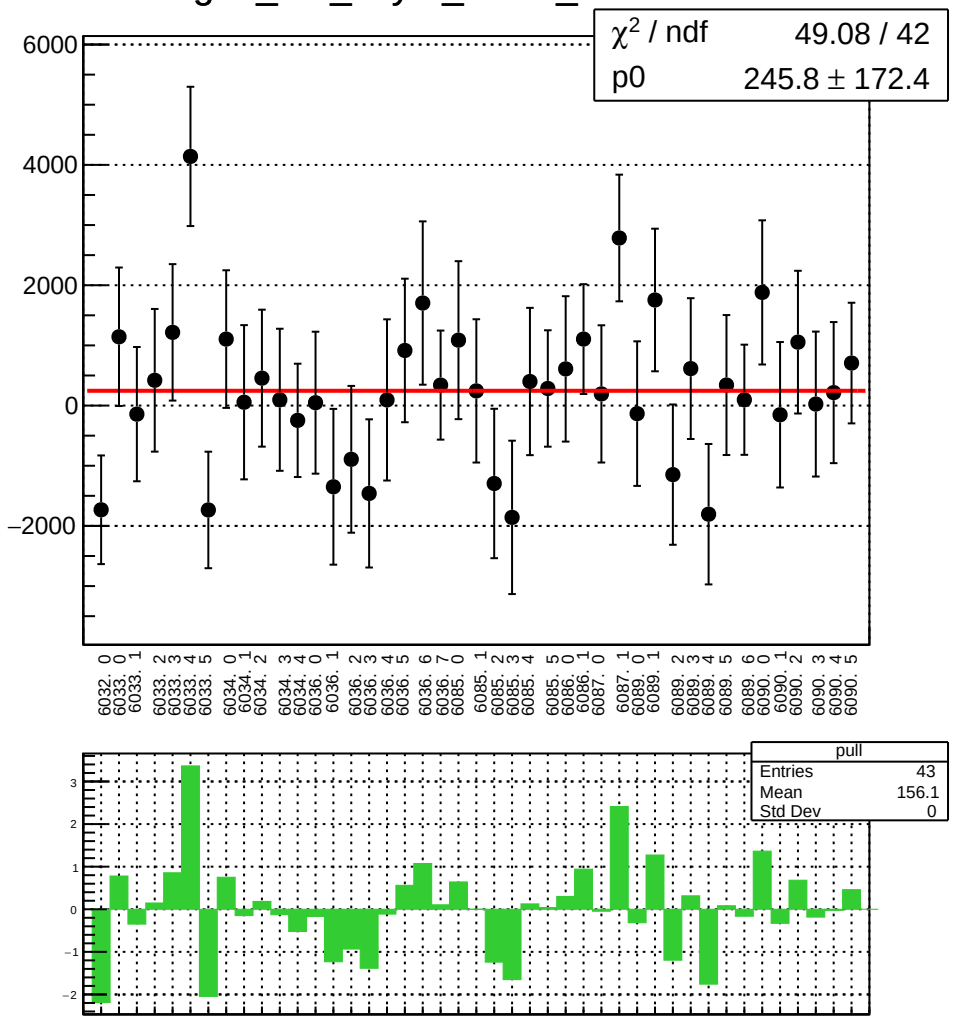

pull1D
Entries 43
Mean 0.007874
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

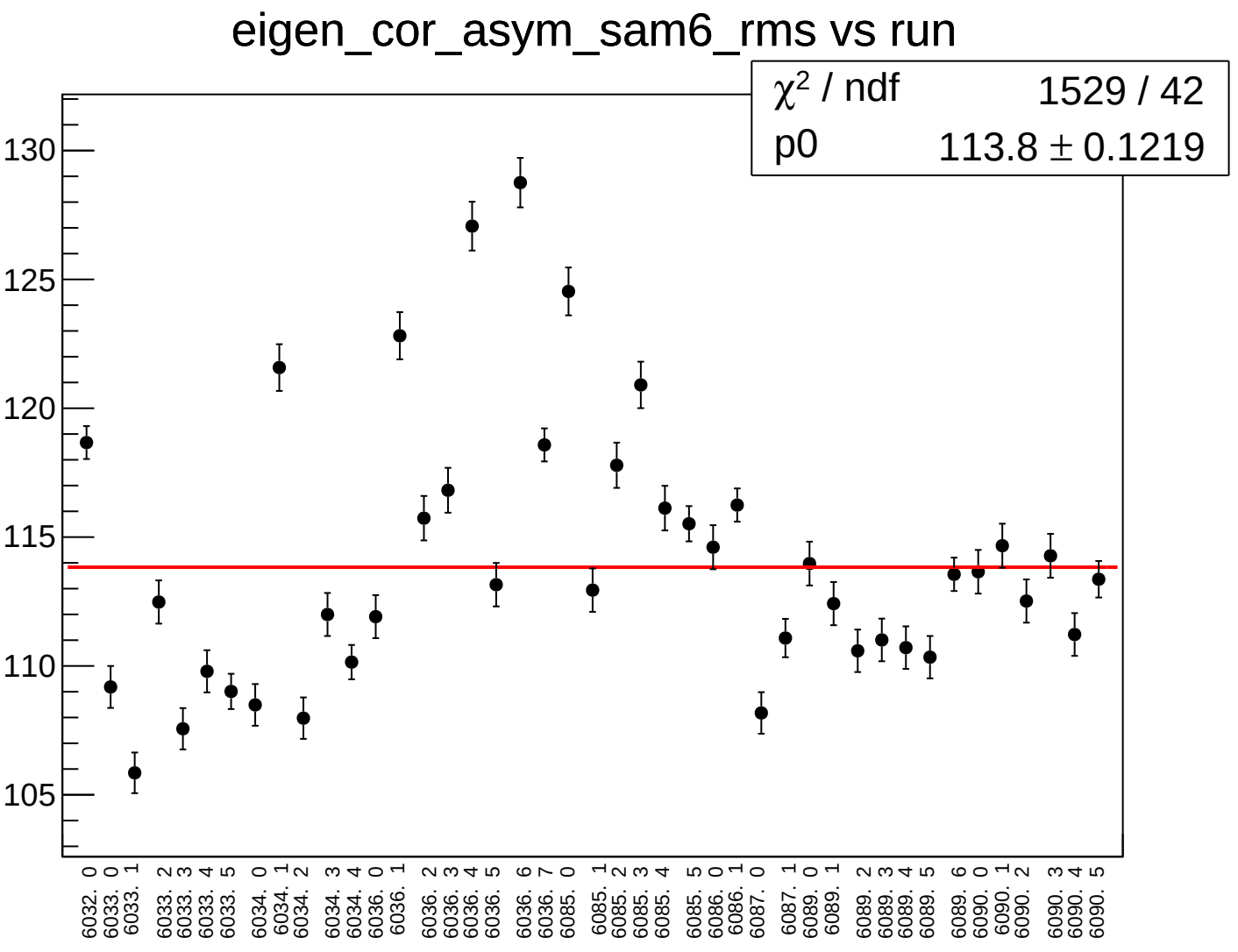

cor_asym_sam6_rms vs run
χ² / ndf 1529 / 42
p0 113.8 ± 0.1219
130
125
120
115
110
105
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

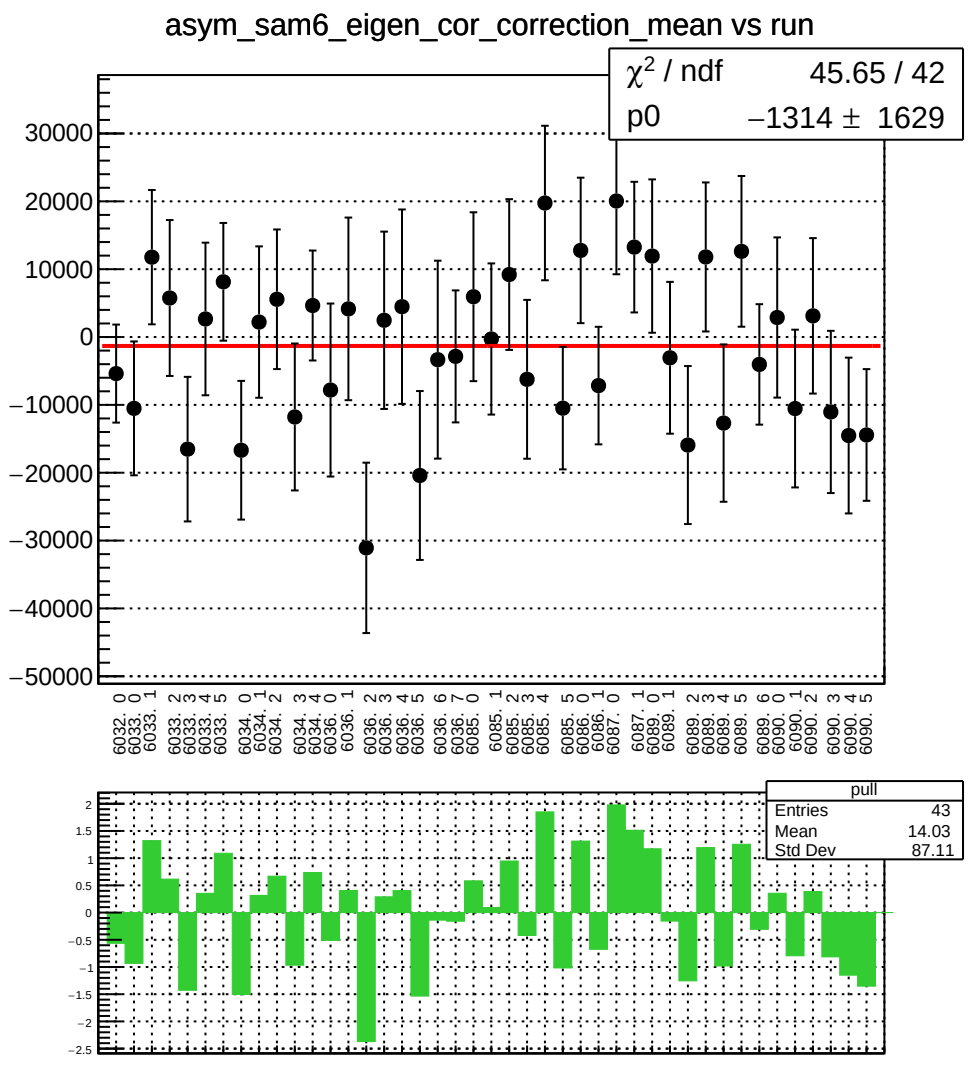

asym_sam6_cor_correction_mean vs run
χ² / ndf 45.65 / 42
p0 −1314 ± 1629
pull
Entries 43
Mean 14.03
Std Dev 87.11

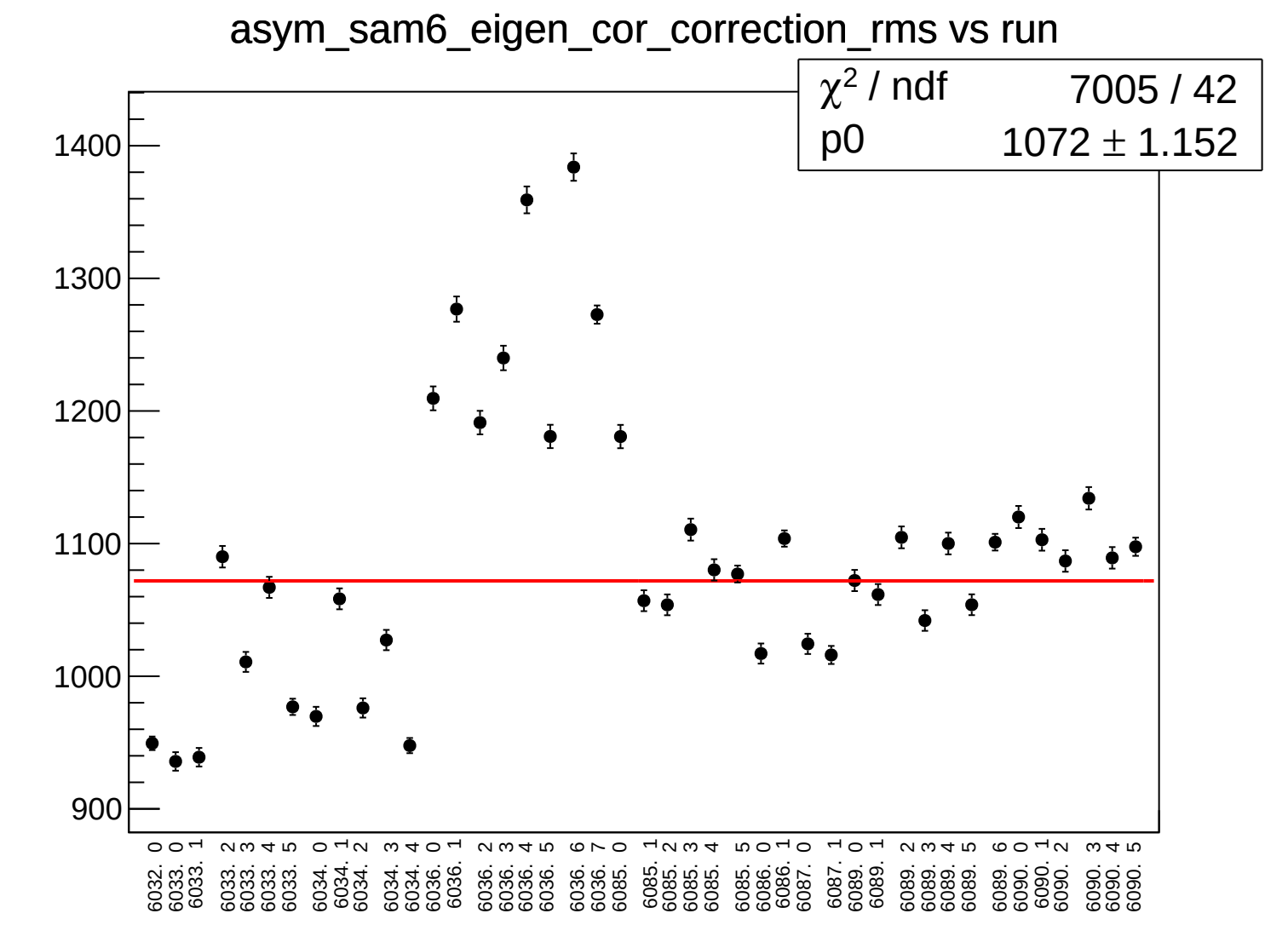

pull1D
Entries 43
Mean −0.004252
Std Dev 1.03

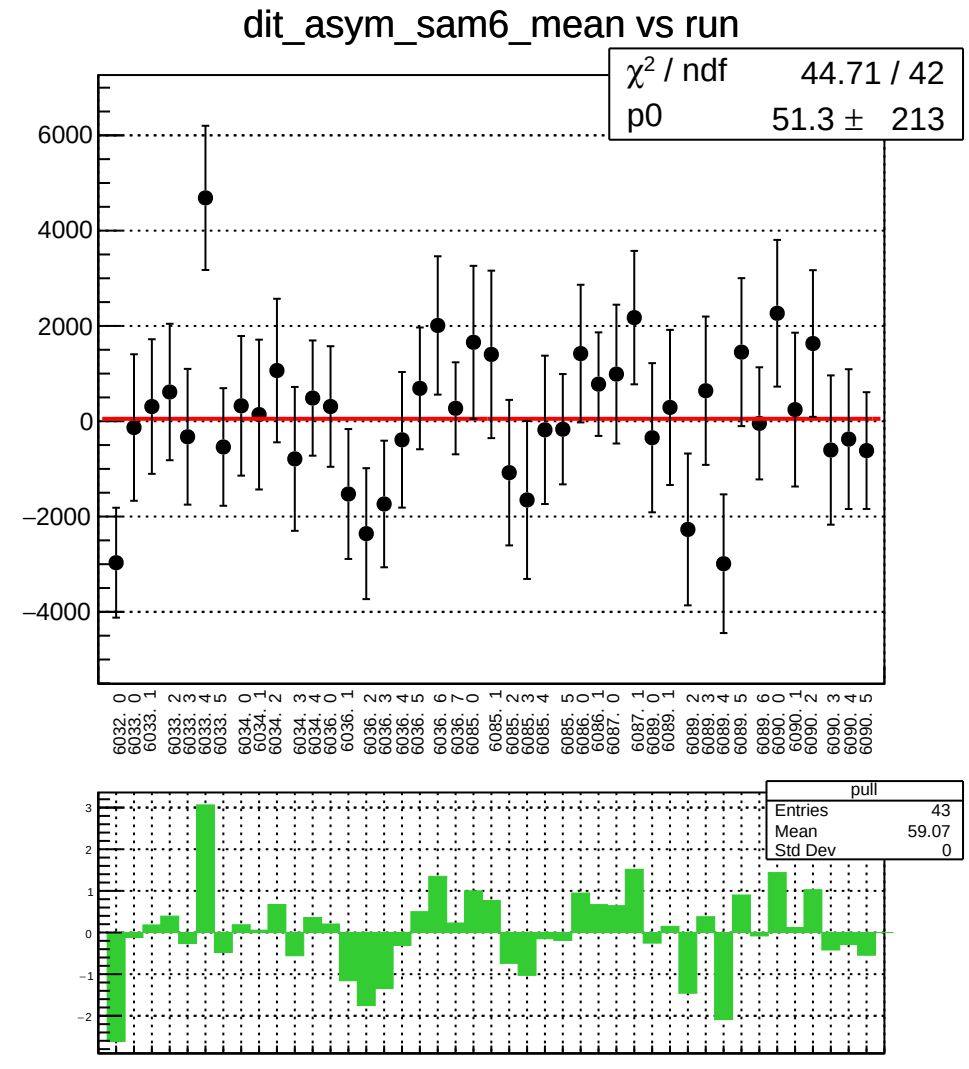

asym_sam6_cor_correction_rms vs run
χ² / ndf 7005 / 42
p0 1072 ± 1.152
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

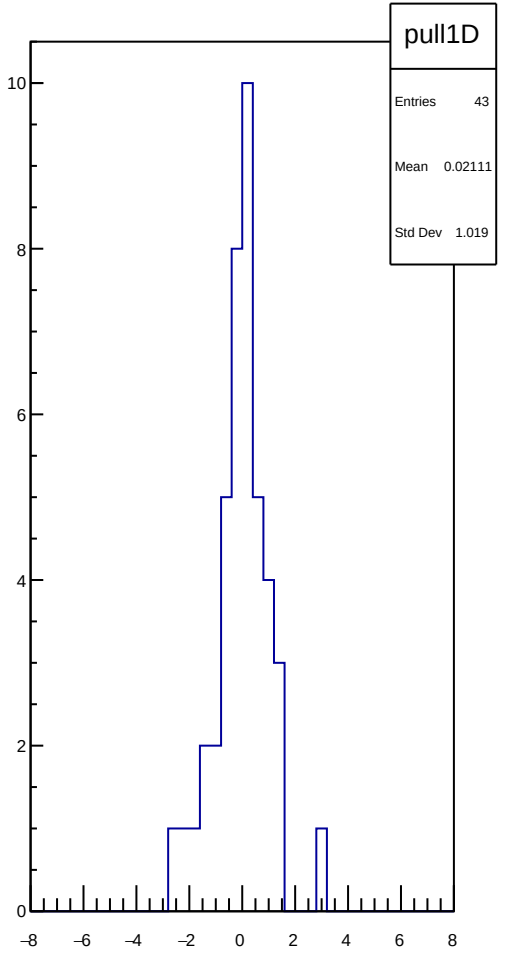

eigen_cor_asym_sam6_mean vs run
χ² / ndf 49.08 / 42
p0 245.8 ± 172.4
6000
4000
2000
0
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 156.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.007874
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

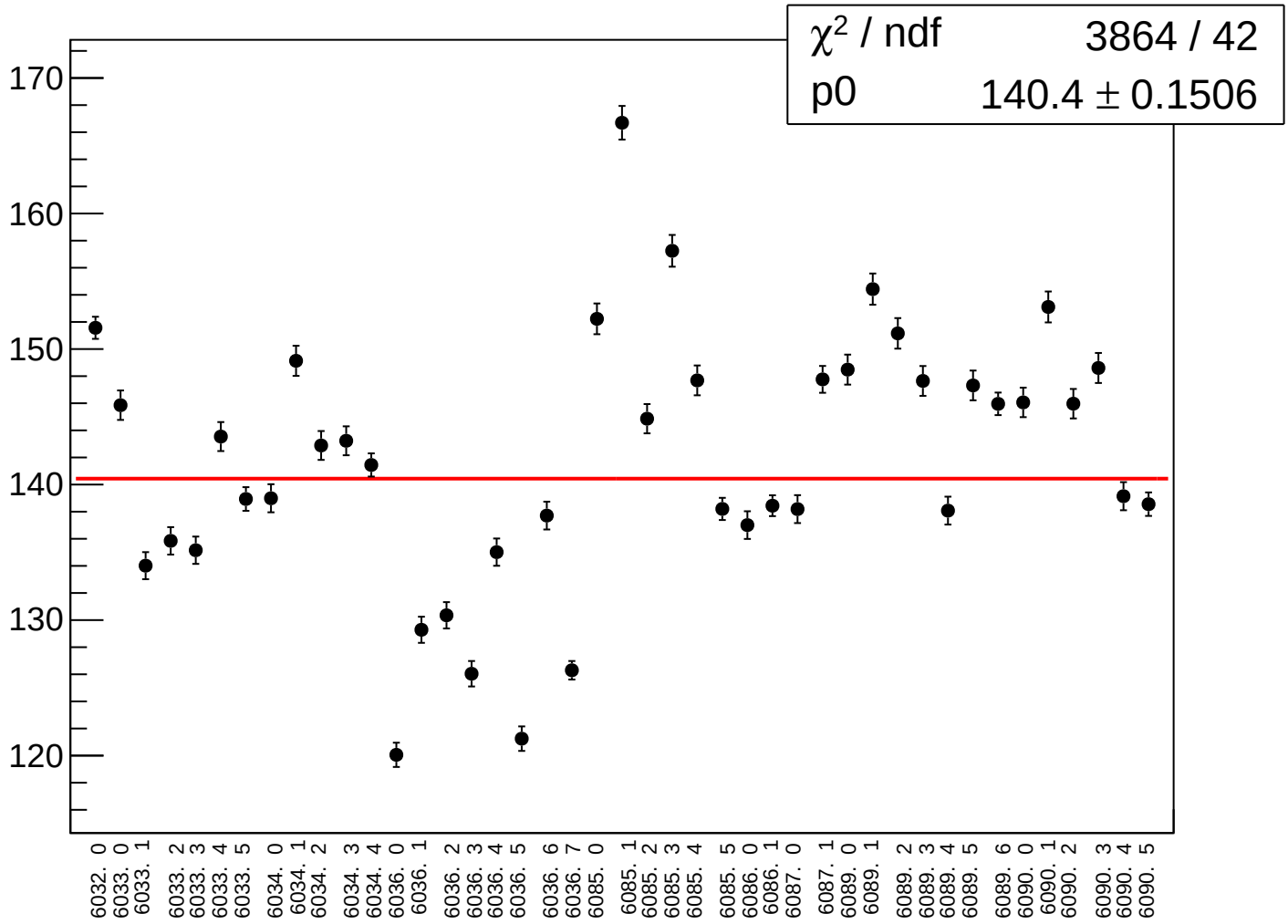

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1529 / 42
p0 113.8 ± 0.1219
130
125
120
115
110
105
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

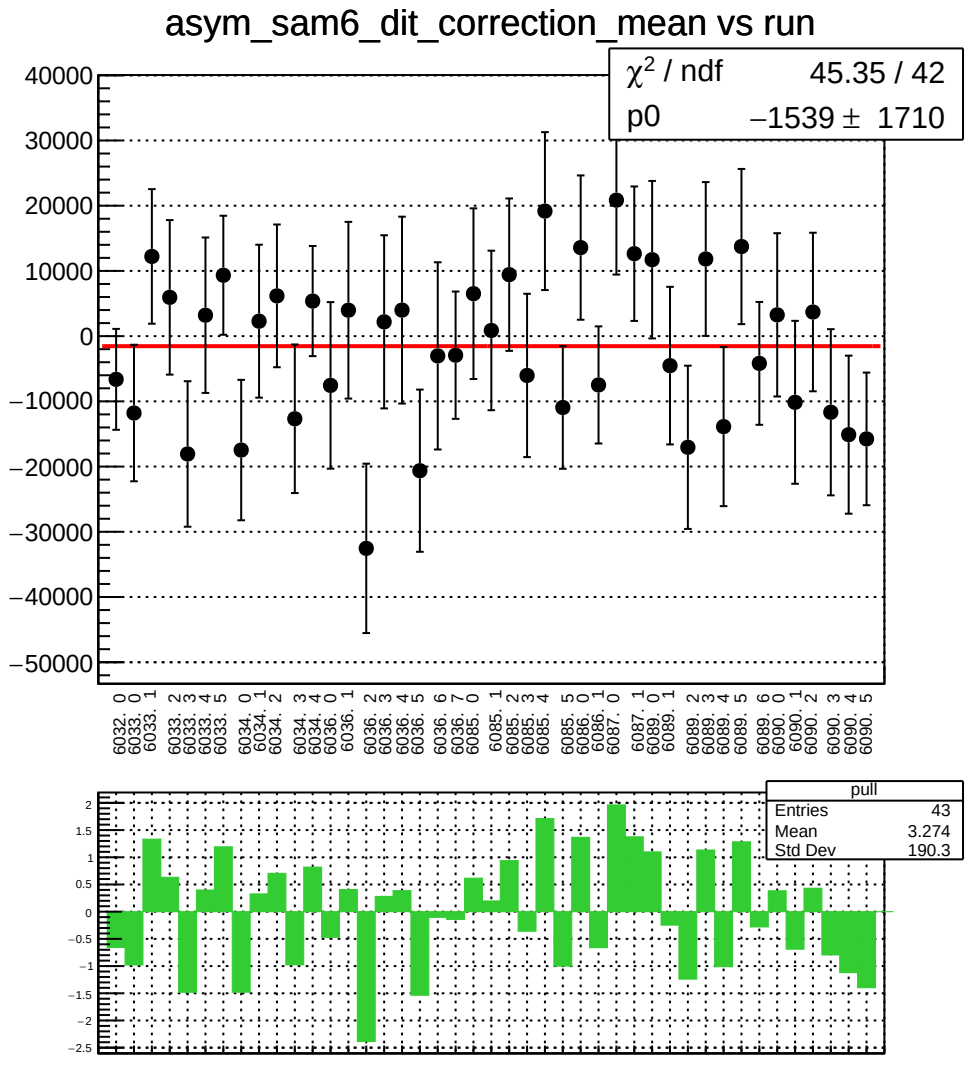

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 45.65 / 42
p0 −1314 ± 1629
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.03
Std Dev 87.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.004252
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

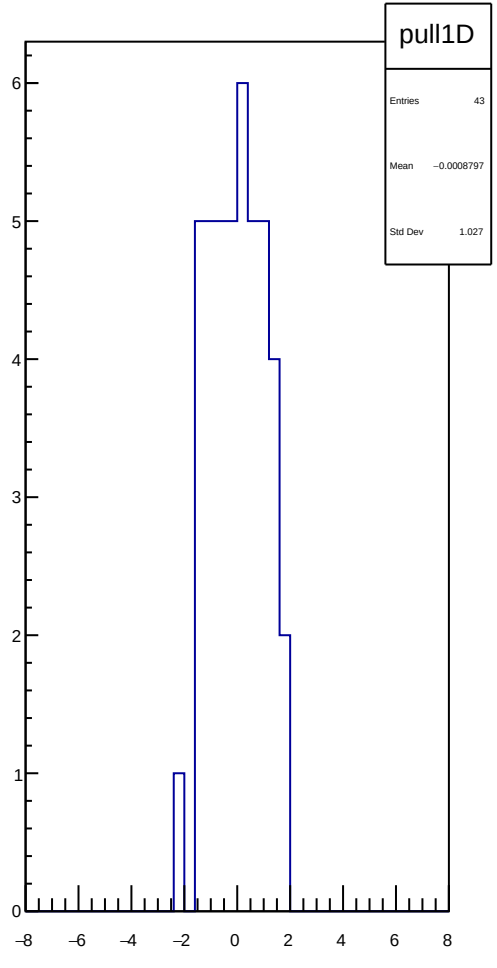

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 7005 / 42
p0 1072 ± 1.152
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

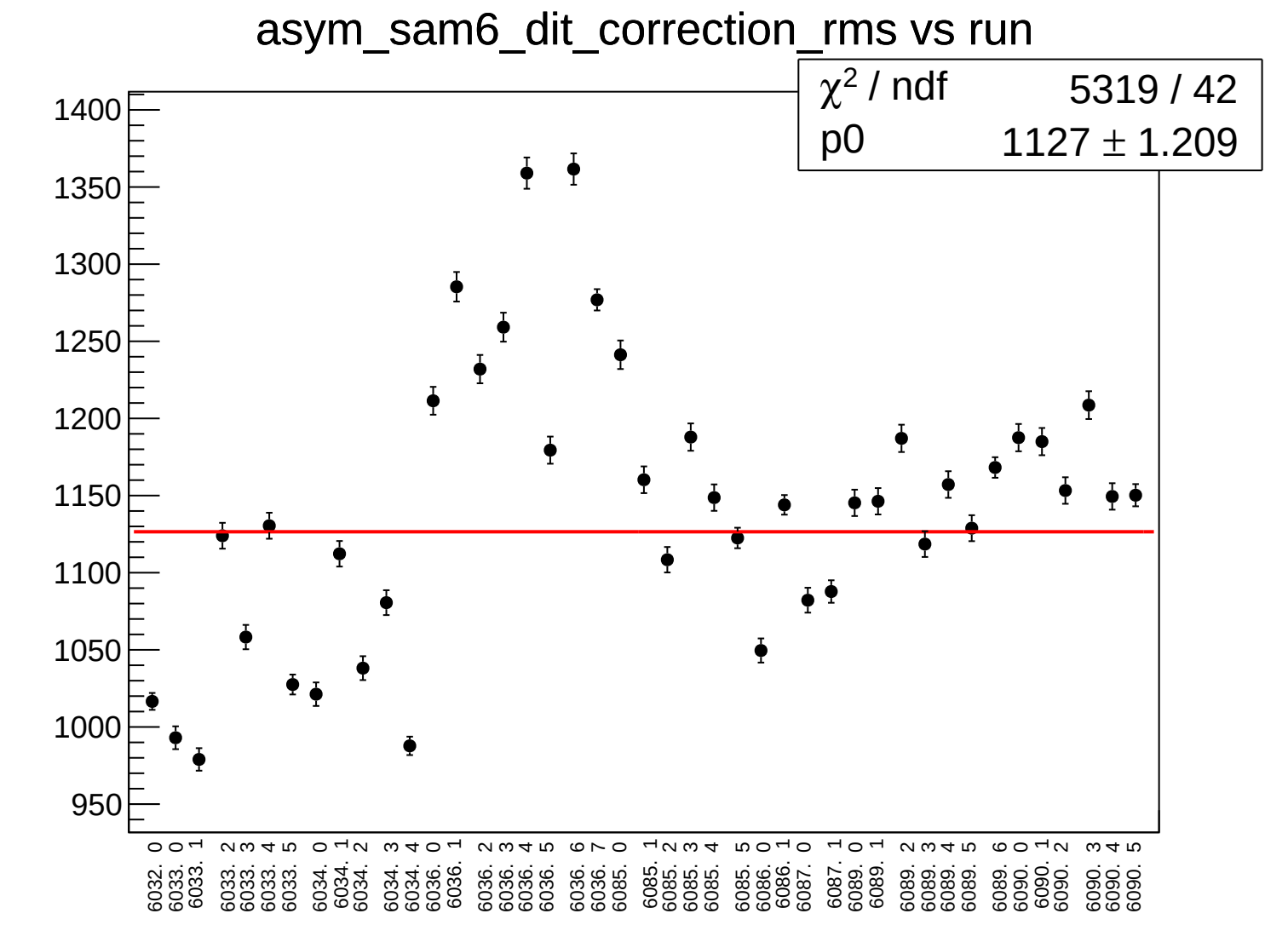

dit_asym_sam6_mean vs run
χ² / ndf 44.71 / 42
p0 51.3 ± 213
6000
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 59.07
Std Dev 0
3
2
1
0
−1
−2

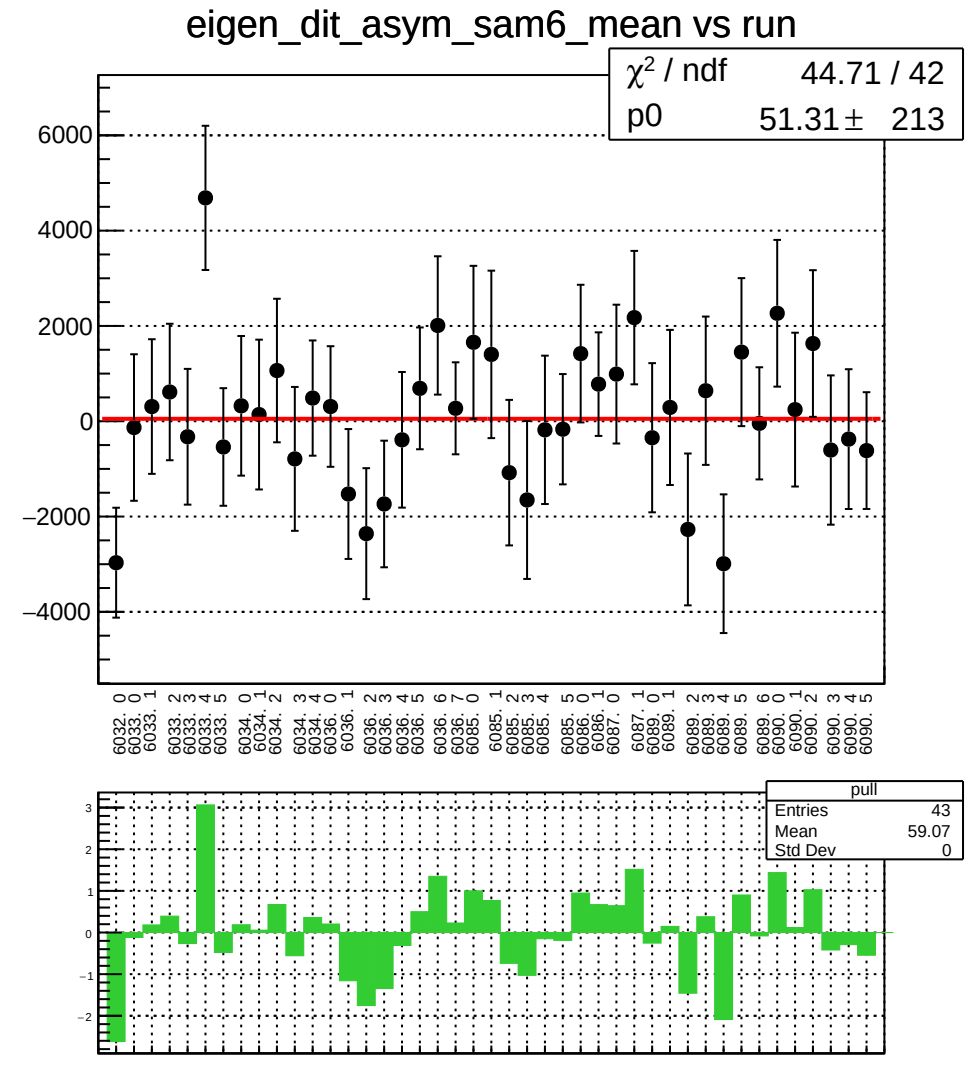

pull1D
Entries 43
Mean 0.02111
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

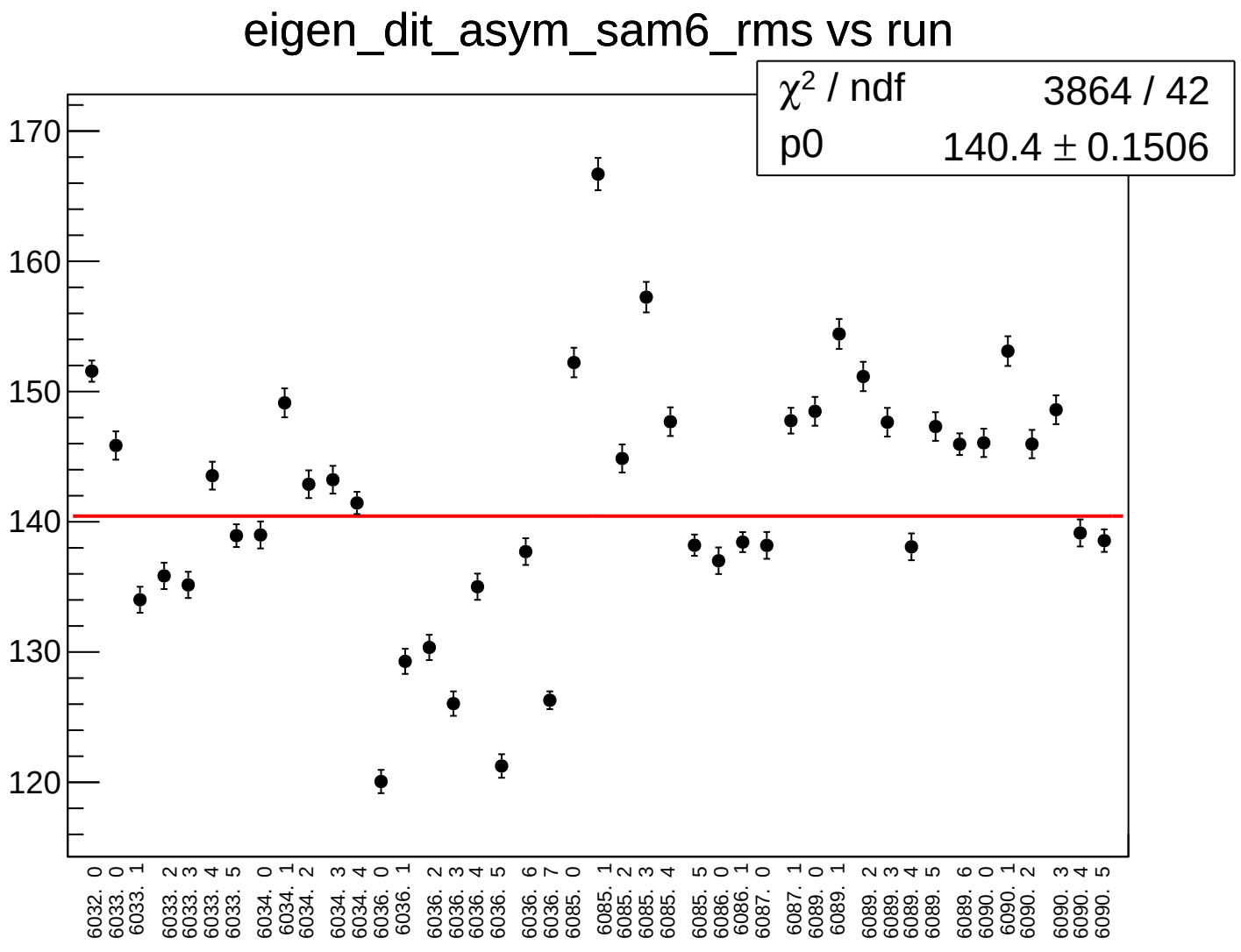

dit_asym_sam6_rms vs run
χ² / ndf 3864 / 42
p0 140.4 ± 0.1506
170
160
150
140
130
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

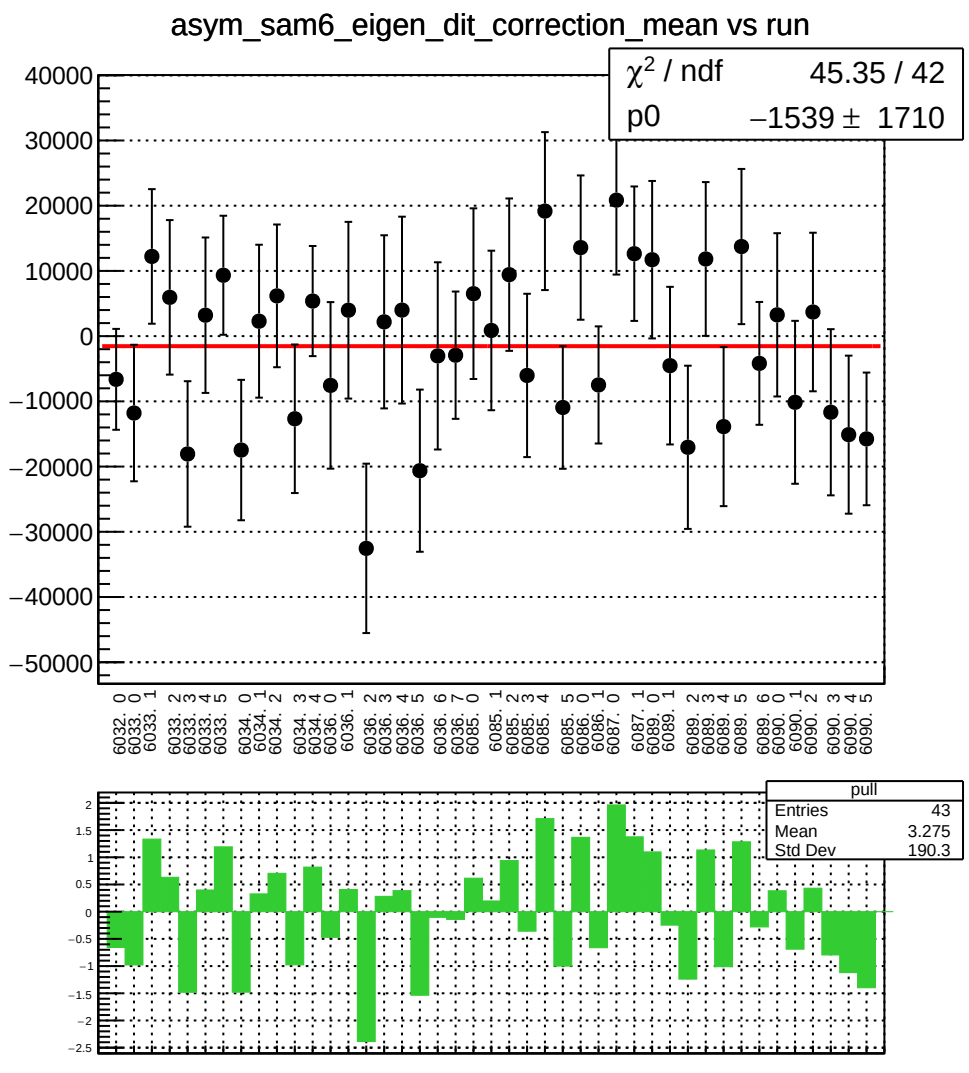

asym_sam6_dit_correction_mean vs run
χ² / ndf 45.35 / 42
p0 −1539 ± 1710
pull
Entries 43
Mean 3.274
Std Dev 190.3

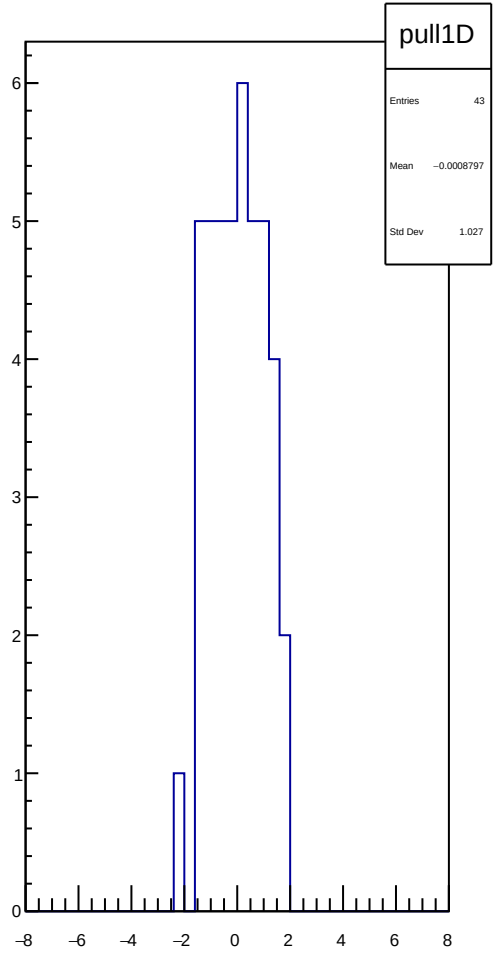

pull1D
Entries 43
Mean −0.0008797
Std Dev 1.027

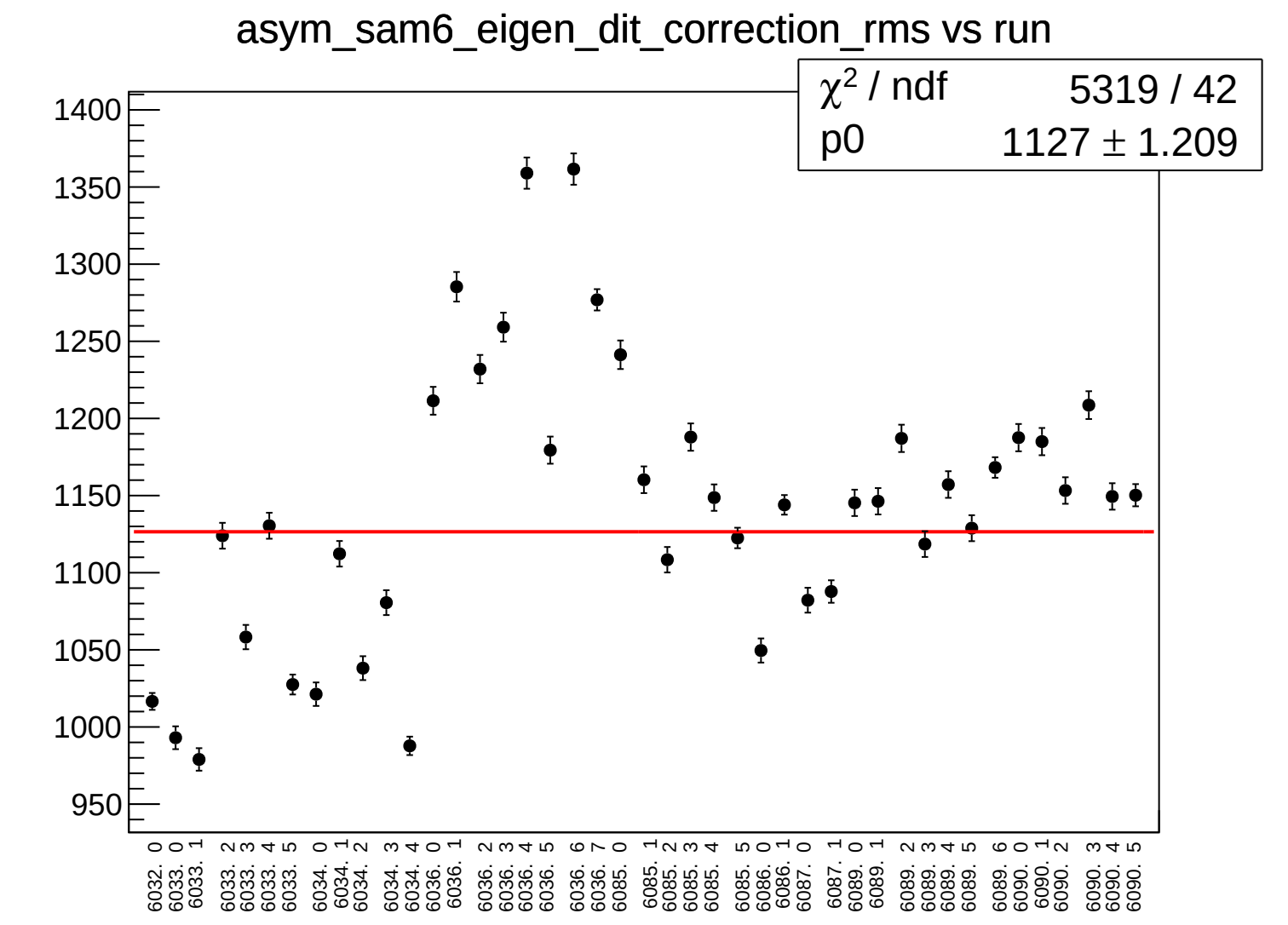

asym_sam6_dit_correction_rms vs run
χ² / ndf 5319 / 42
p0 1127 ± 1.209
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

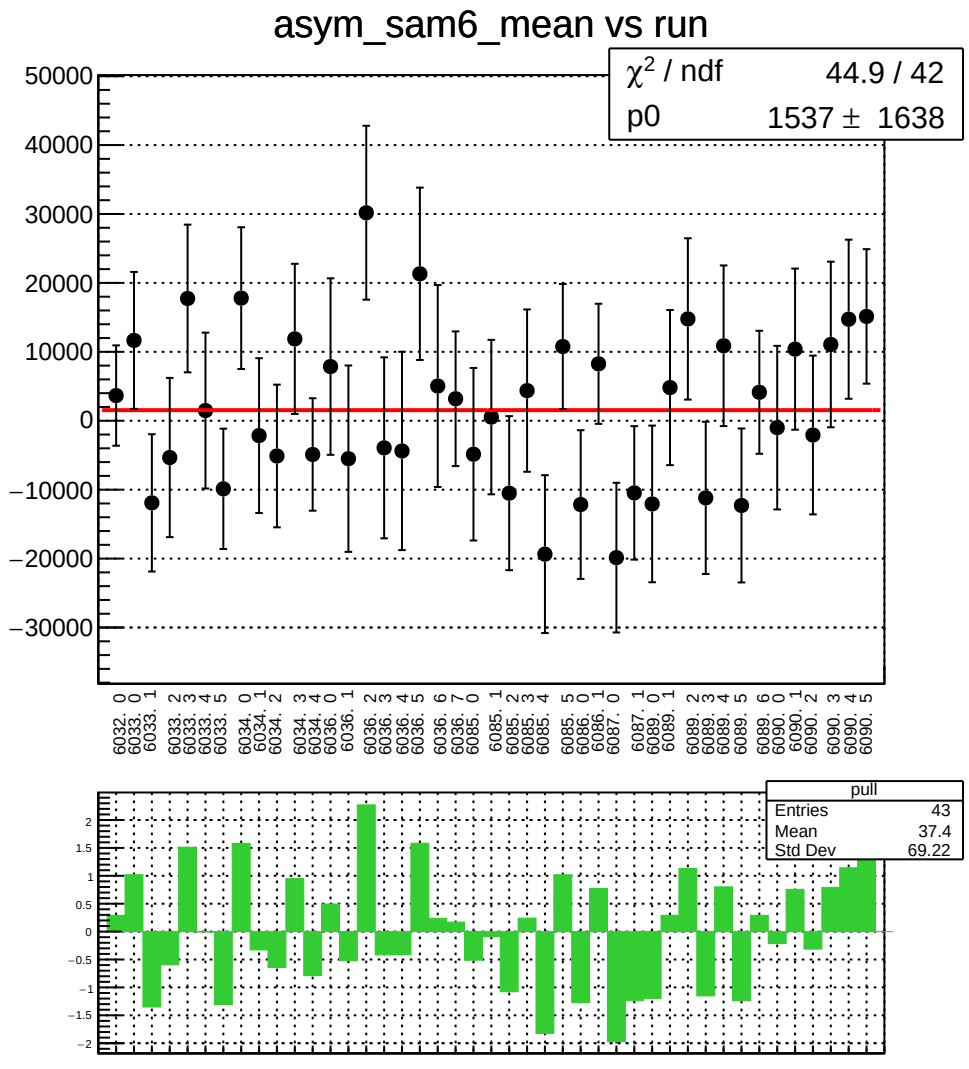

eigen_dit_asym_sam6_mean vs run
χ² / ndf 44.71 / 42
p0 51.31 ± 213
6000
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 59.07
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02111
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

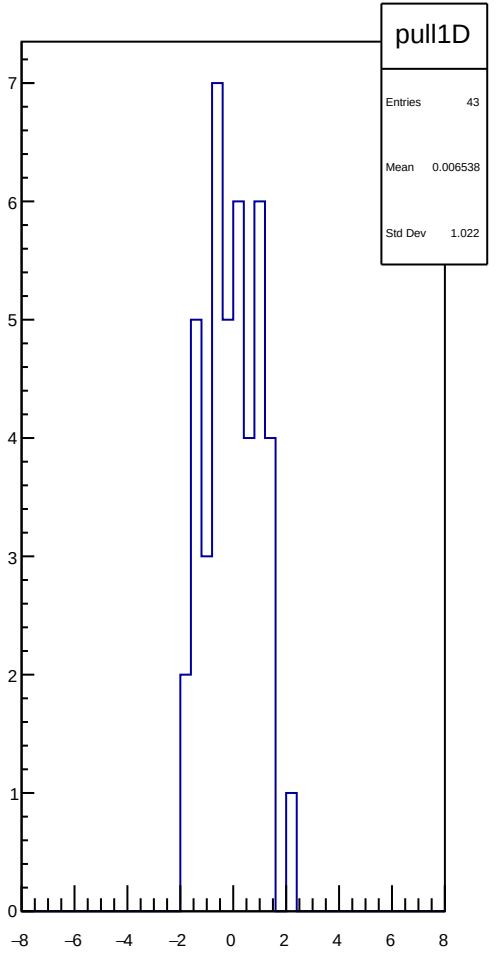

eigen_dit_asym_sam6_rms vs run
χ² / ndf 3864 / 42
p0 140.4 ± 0.1506
170
160
150
140
130
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

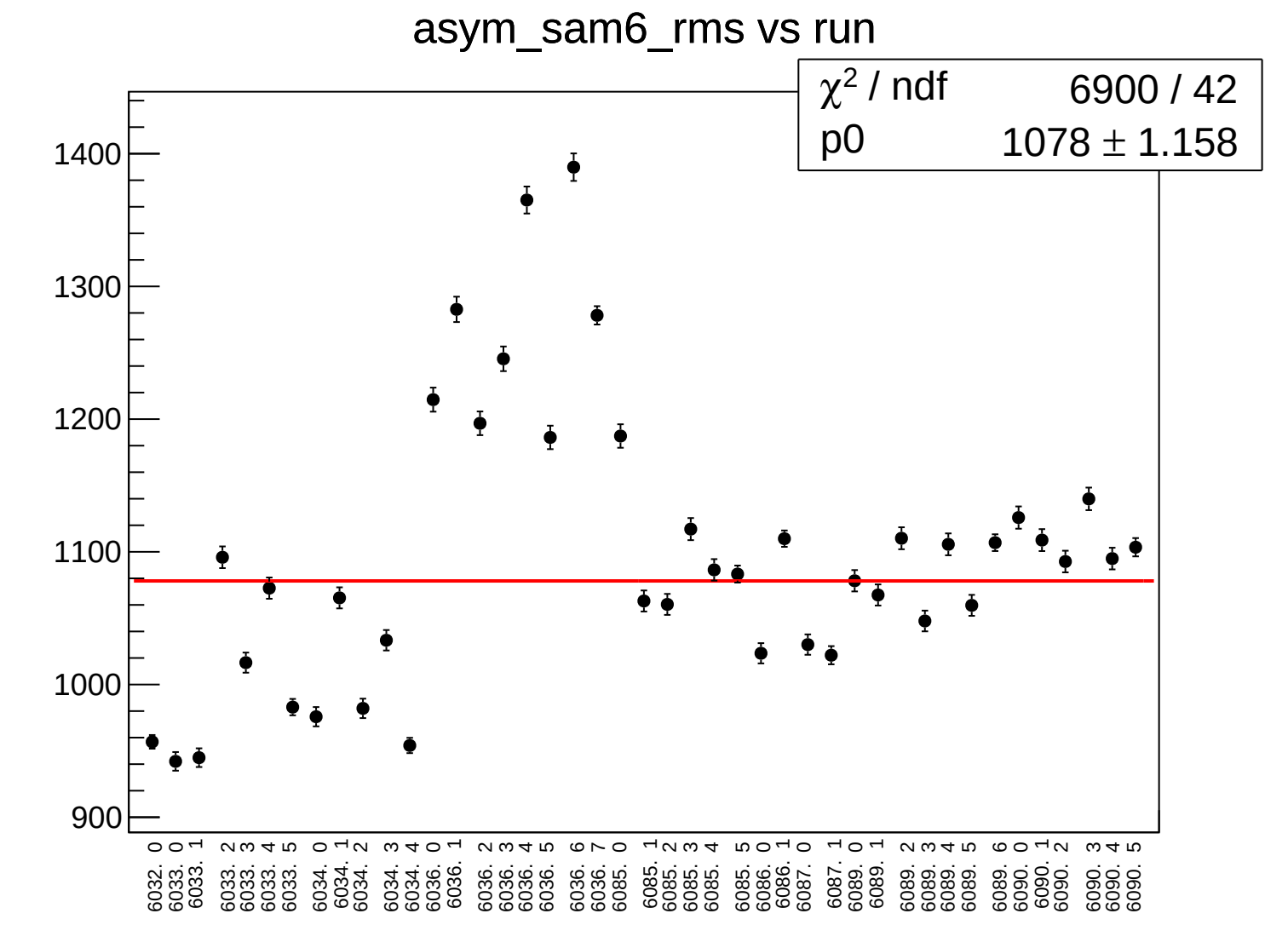

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 45.35 / 42
p0 −1539 ± 1710
pull
Entries 43
Mean 3.275
Std Dev 190.3

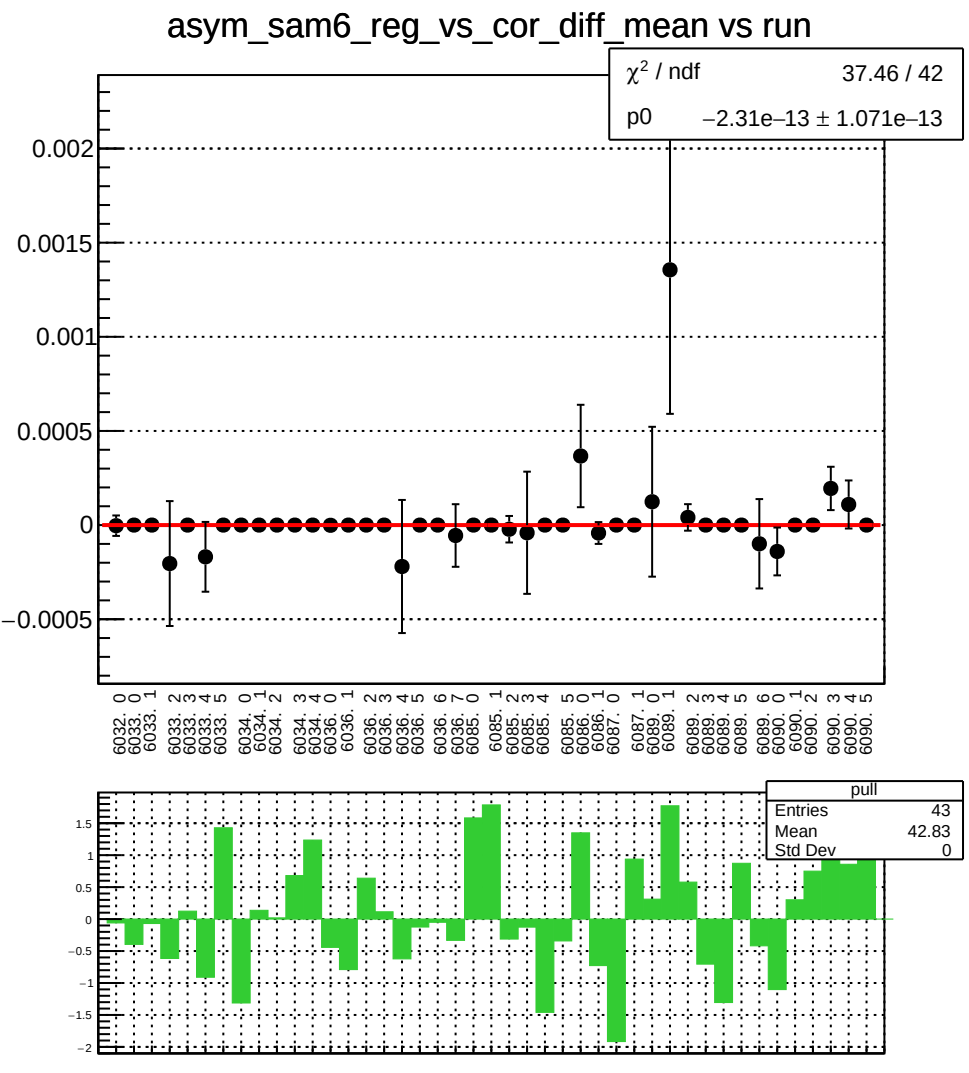

pull1D
Entries 43
Mean −0.0008797
Std Dev 1.027

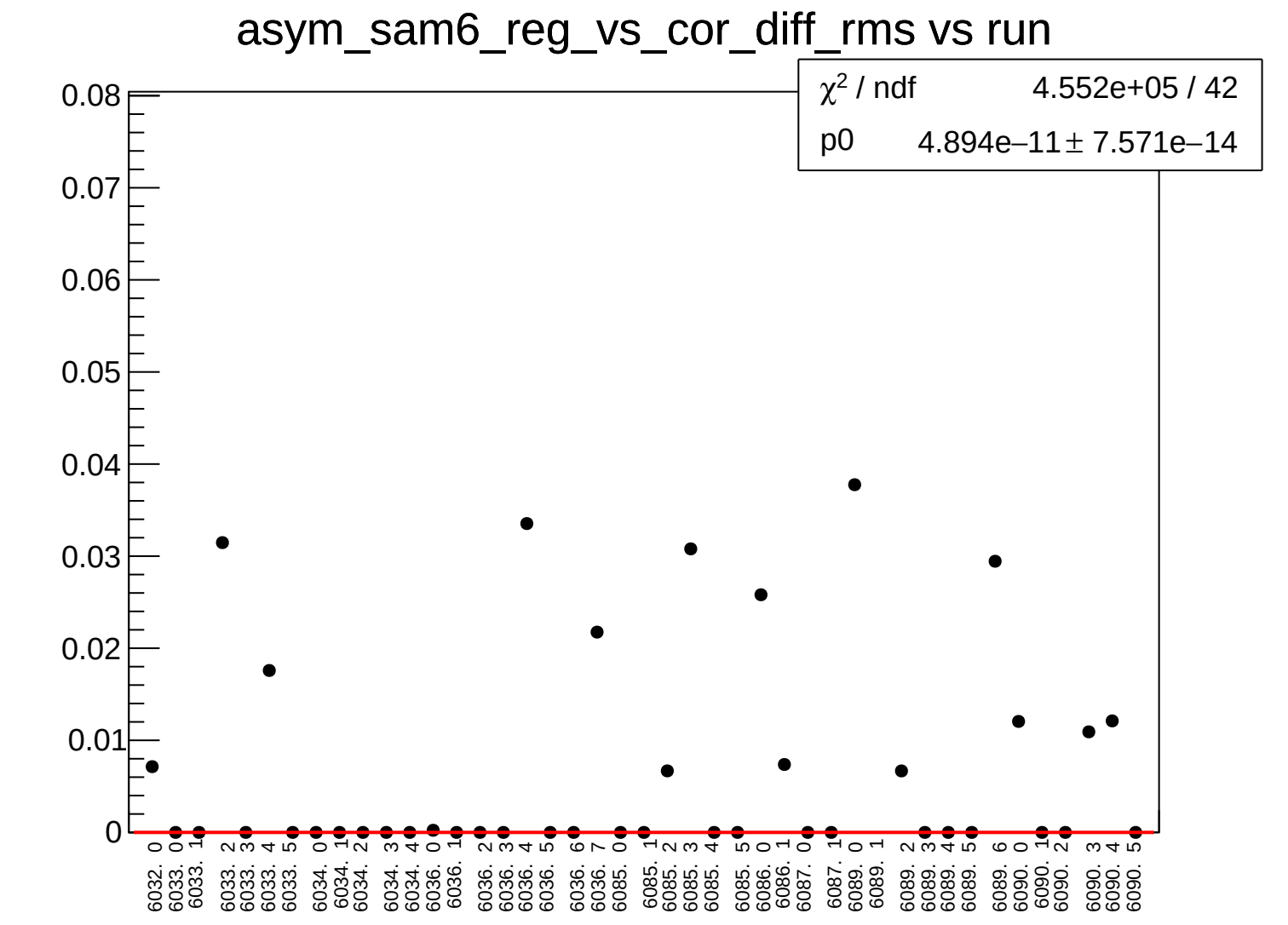

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 5319 / 42
p0 1127 ± 1.209
1400
1350
1300
1250
1200
1150
1100
1050
1000
950
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

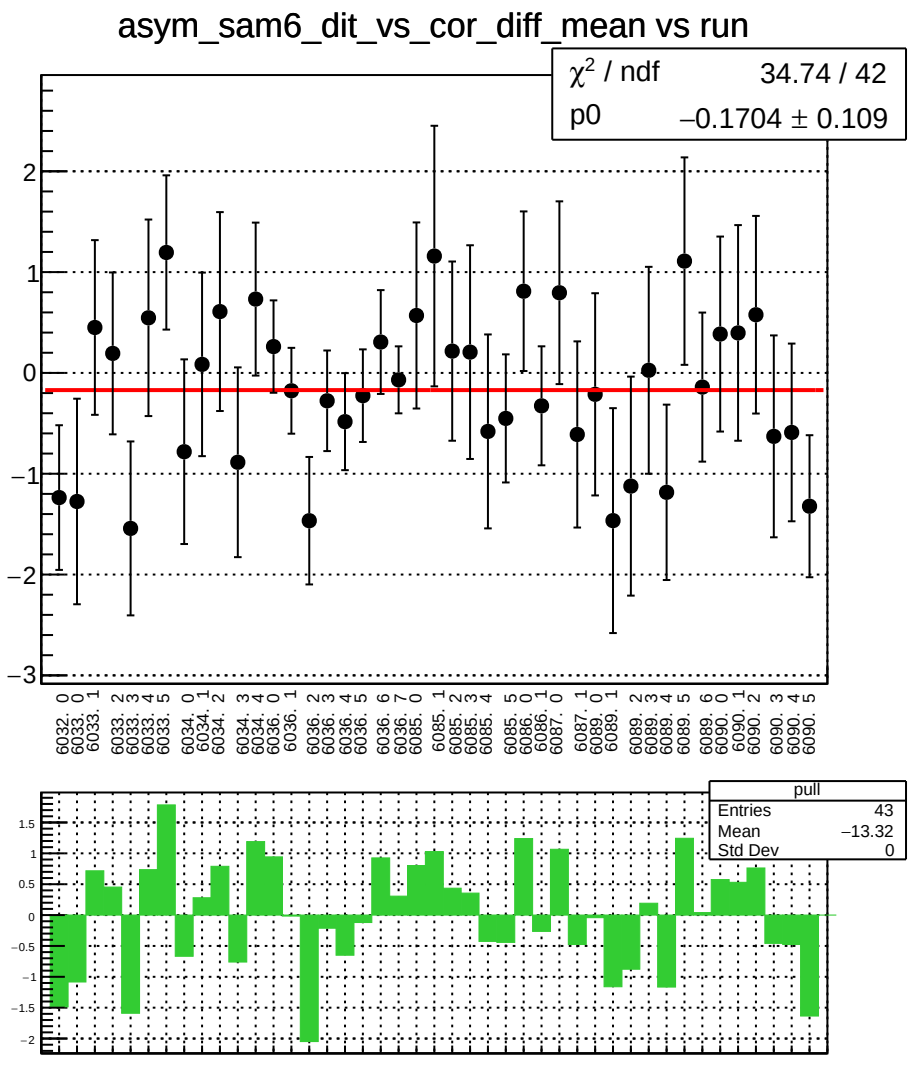

asym_sam6_mean vs run
χ² / ndf 44.9 / 42
p0 1537 ± 1638
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 37.4
Std Dev 69.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

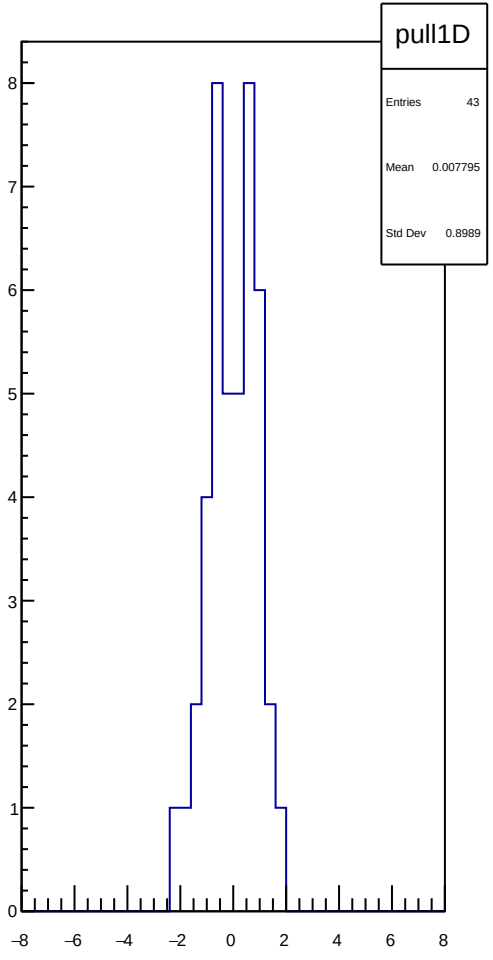

pull1D
Entries 43
Mean 0.006538
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

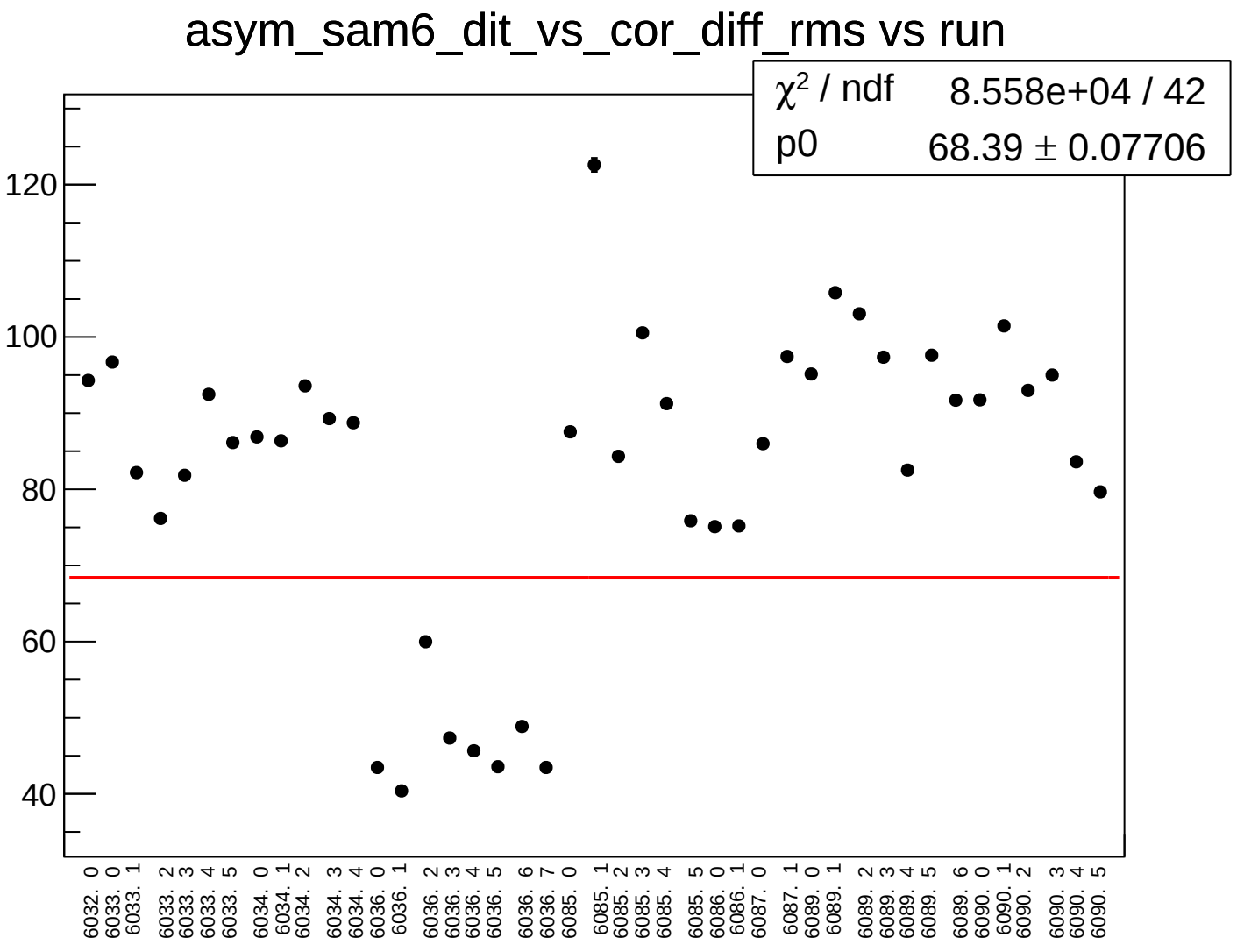

asym_sam6_rms vs run
χ² / ndf 6900 / 42
p0 1078 ± 1.158
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

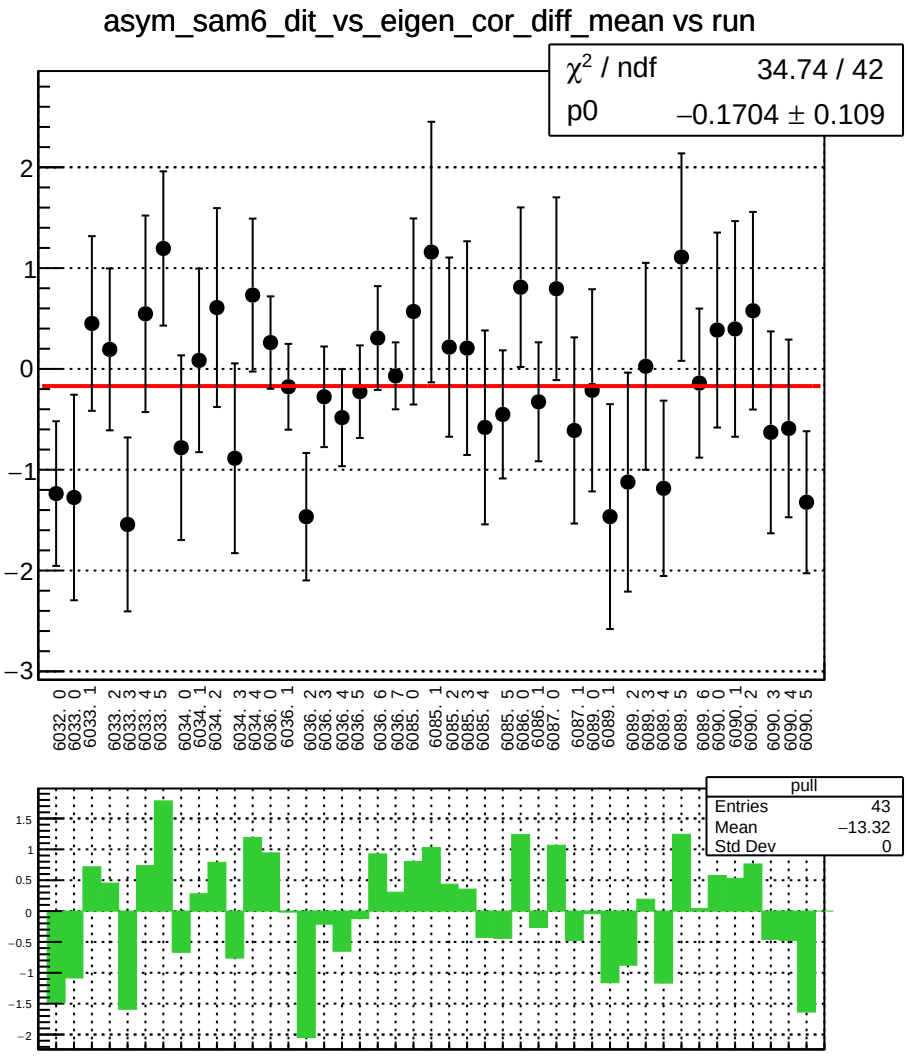

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 37.46 / 42
p0 −2.31e−13 ± 1.071e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 42.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.09807
Std Dev 0.9282
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

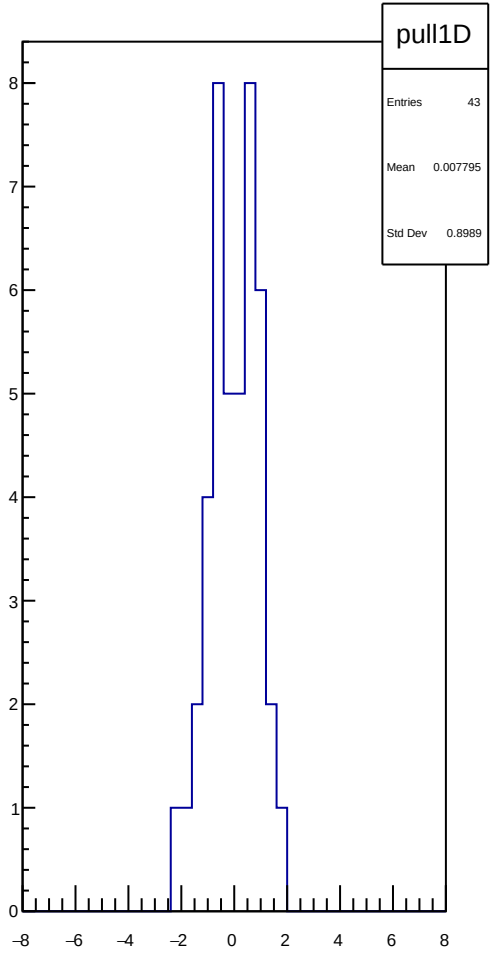

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 4.552e+05 / 42
p0 4.894e−11 ± 7.571e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

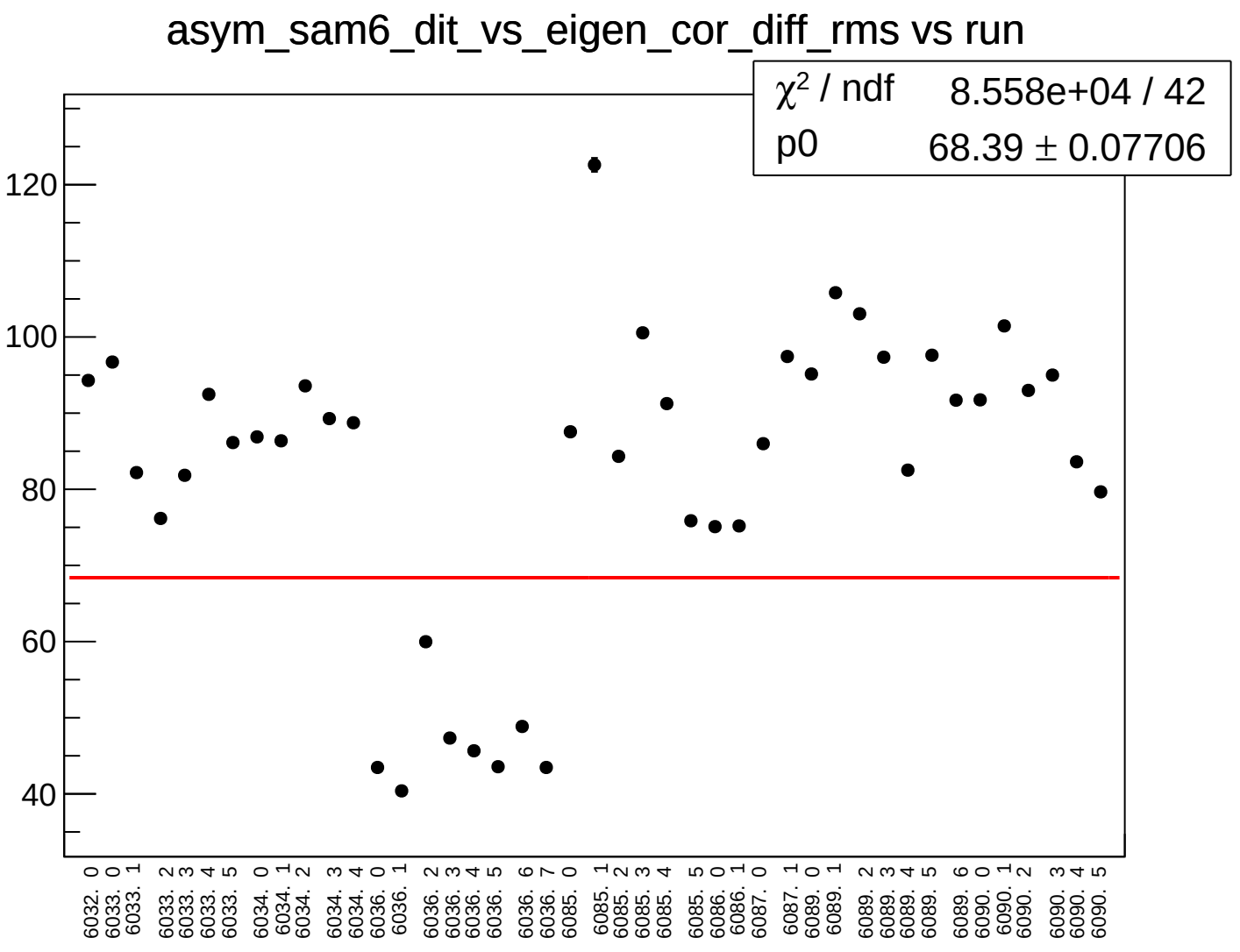

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 34.74 / 42
p0 −0.1704 ± 0.109
2
1
0
−1
−2
−3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.32
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

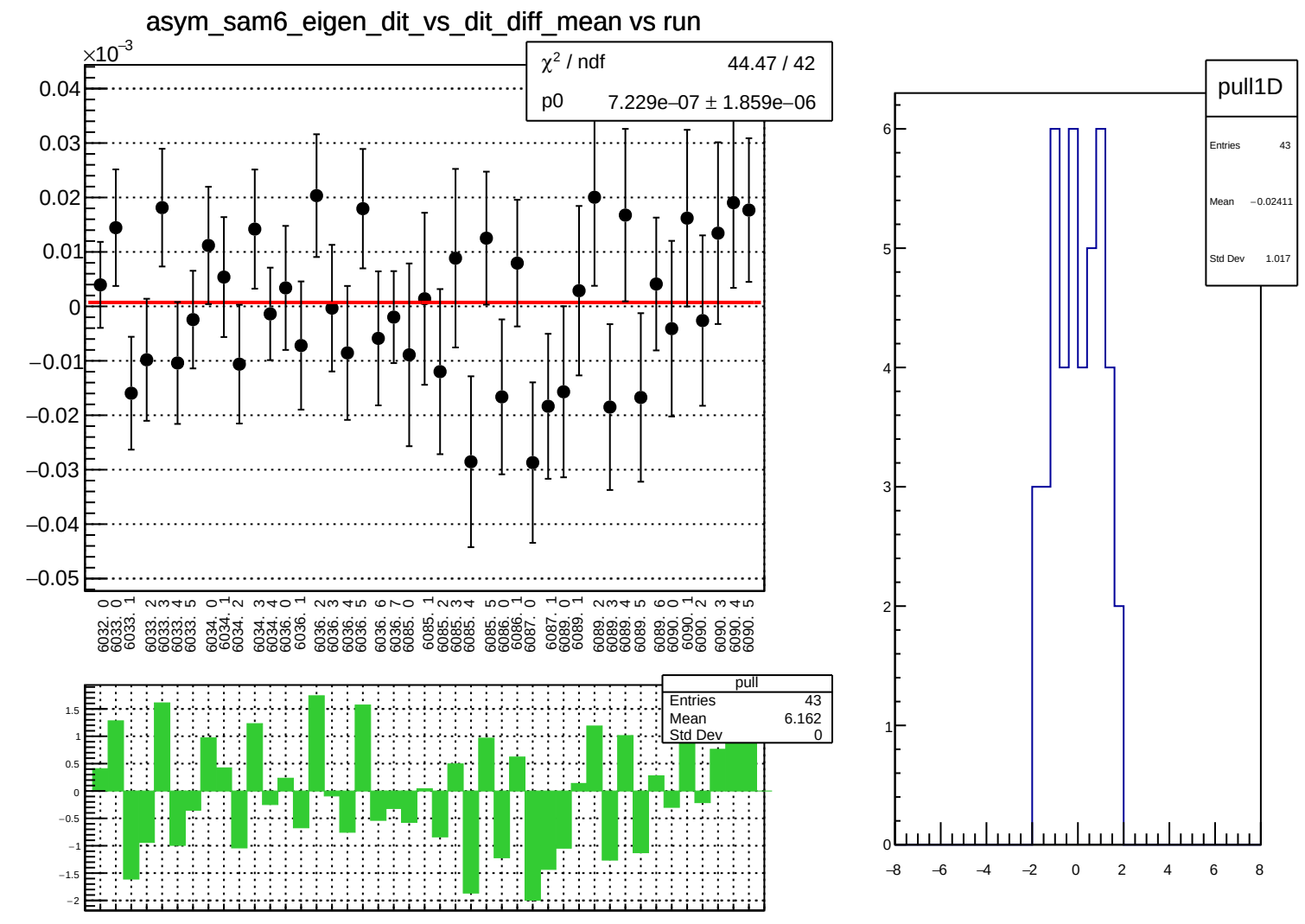

pull1D
Entries 43
Mean 0.007795
Std Dev 0.8989
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

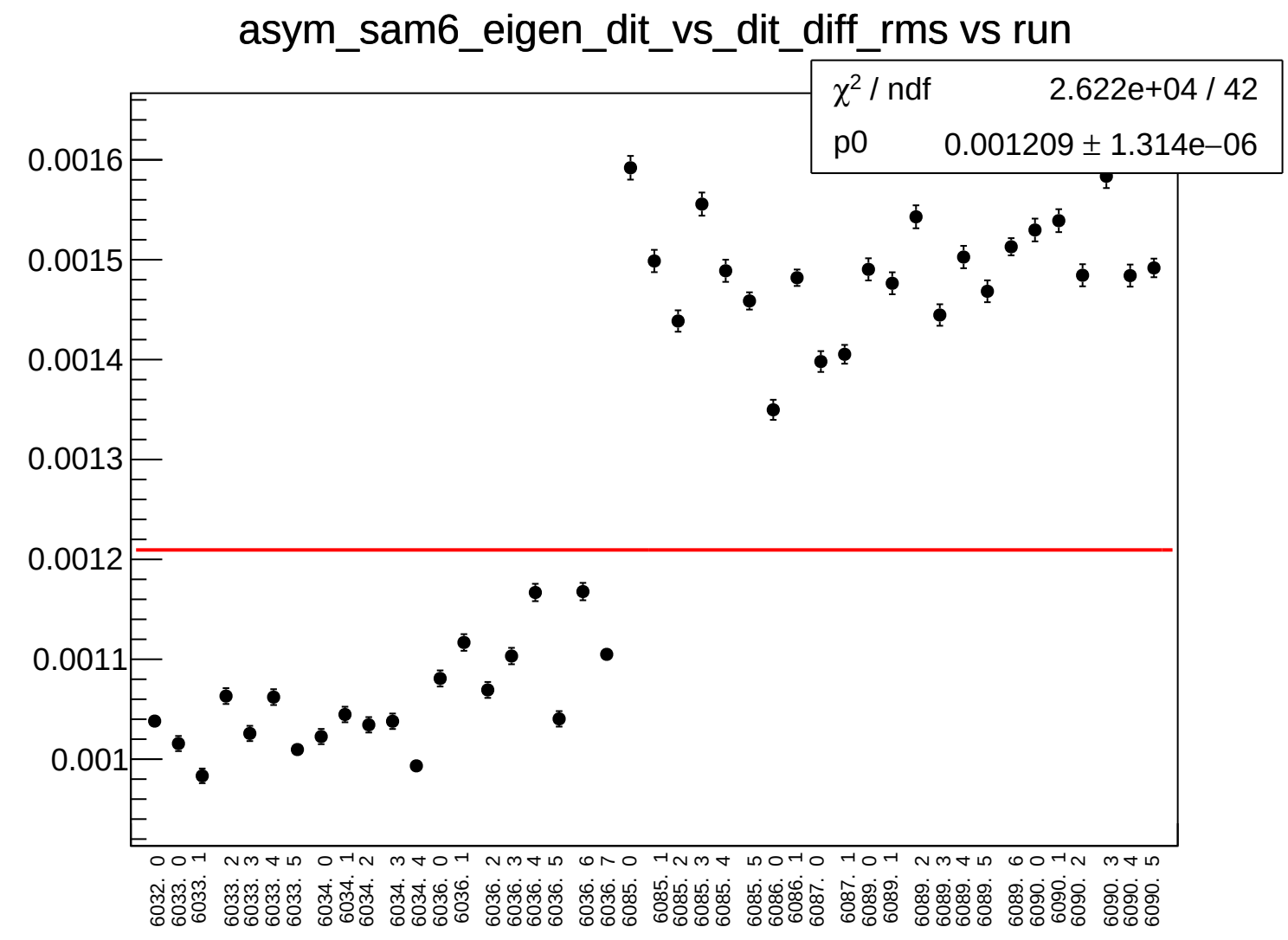

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 8.558e+04 / 42
p0 68.39 ± 0.07706
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

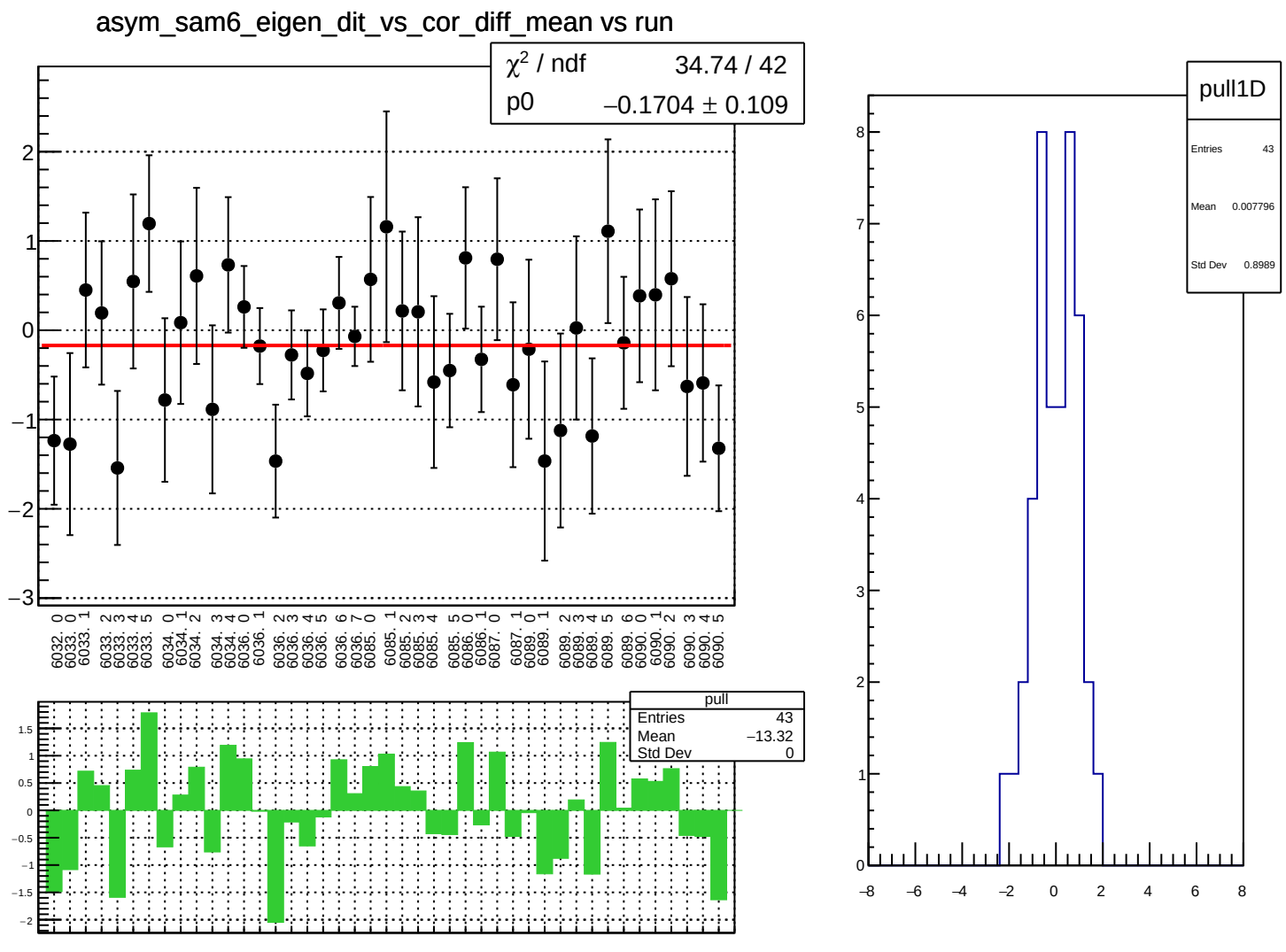

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.74 / 42
p0 −0.1704 ± 0.109
pull
Entries 43
Mean −13.32
Std Dev 0

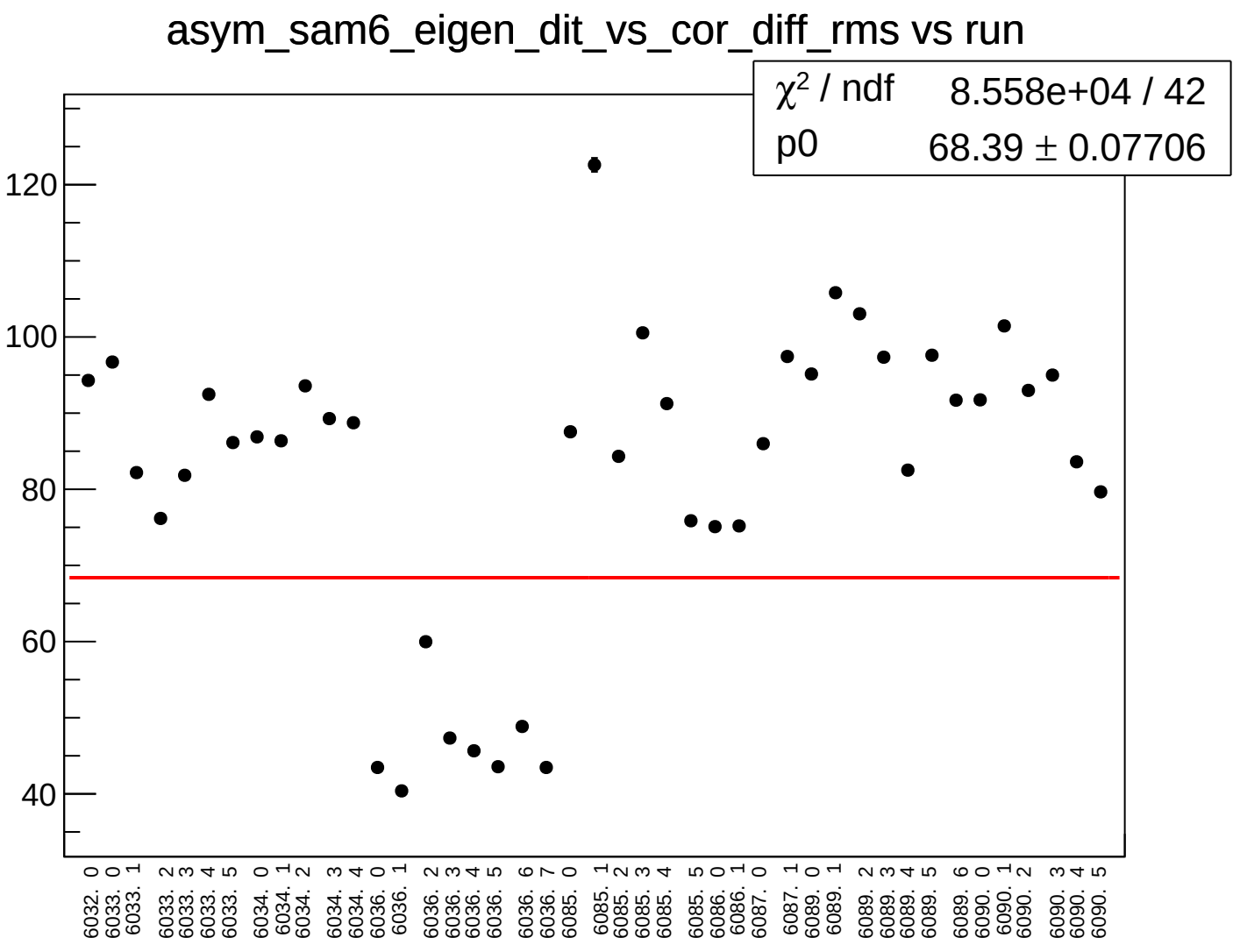

pull1D
Entries 43
Mean 0.007795
Std Dev 0.8989

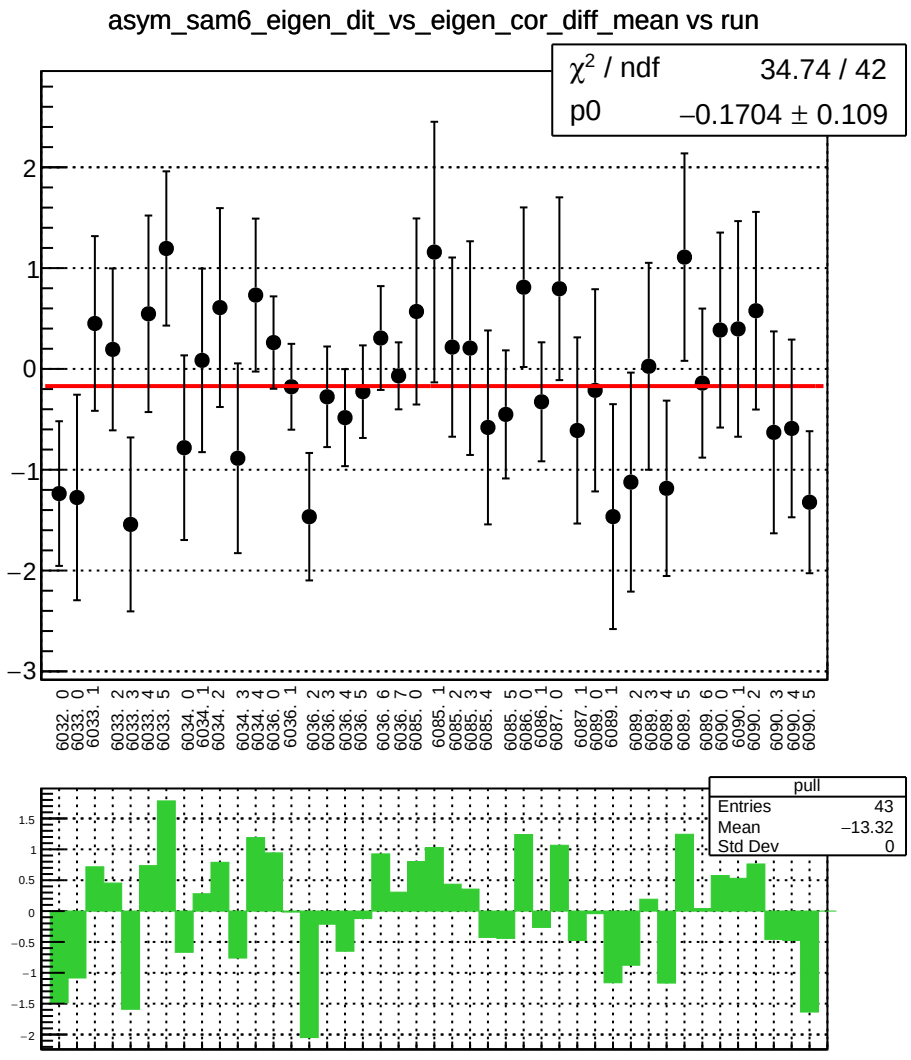

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.558e+04 / 42
p0 68.39 ± 0.07706
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

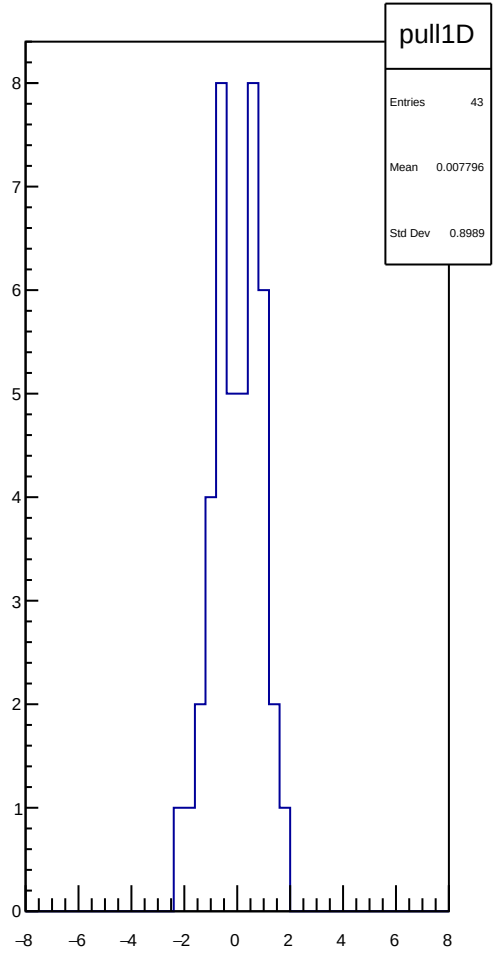

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.47 / 42
p0 7.229e−07 ± 1.859e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.162
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02411
Std Dev 1.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

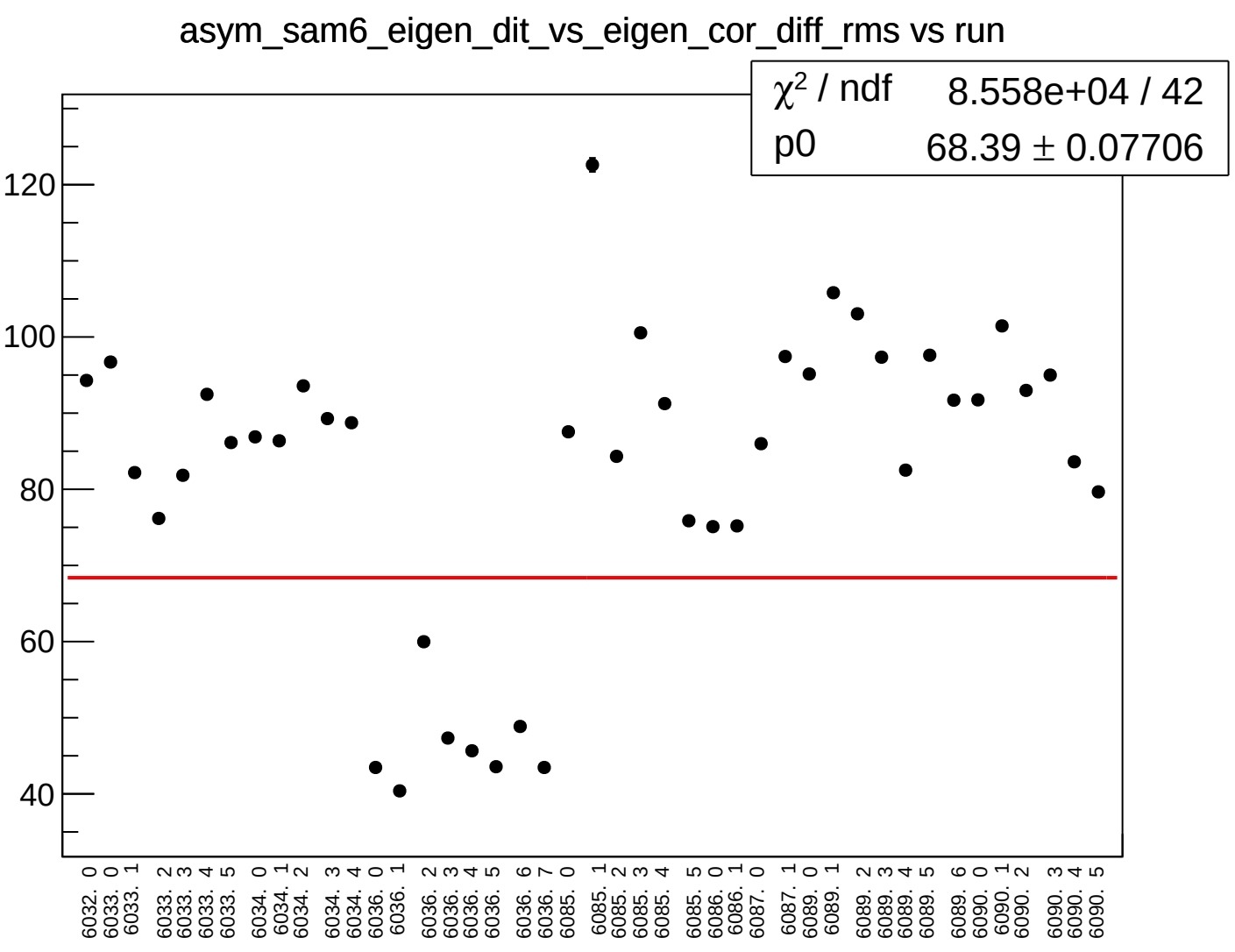

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.622e+04 / 42
p0 0.001209 ± 1.314e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

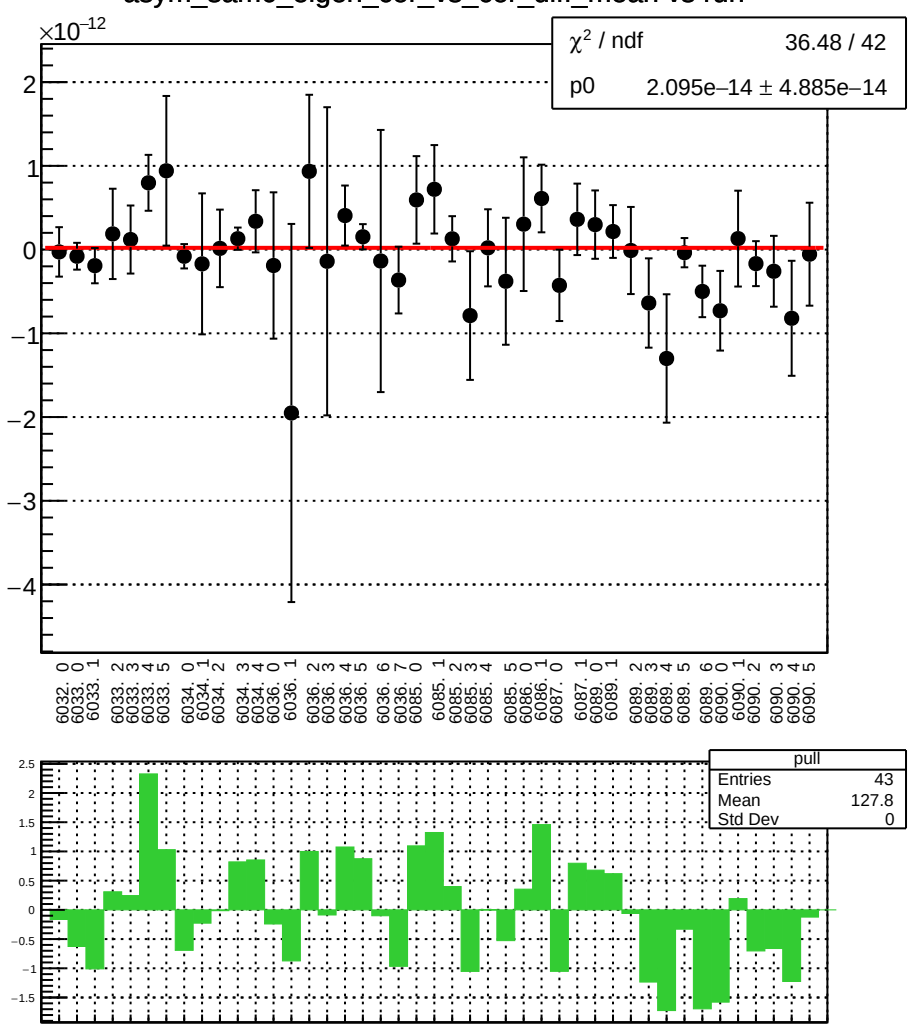

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.74 / 42
p0 −0.1704 ± 0.109
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.32
Std Dev 0
pull1D
Entries 43
Mean 0.007796
Std Dev 0.8989

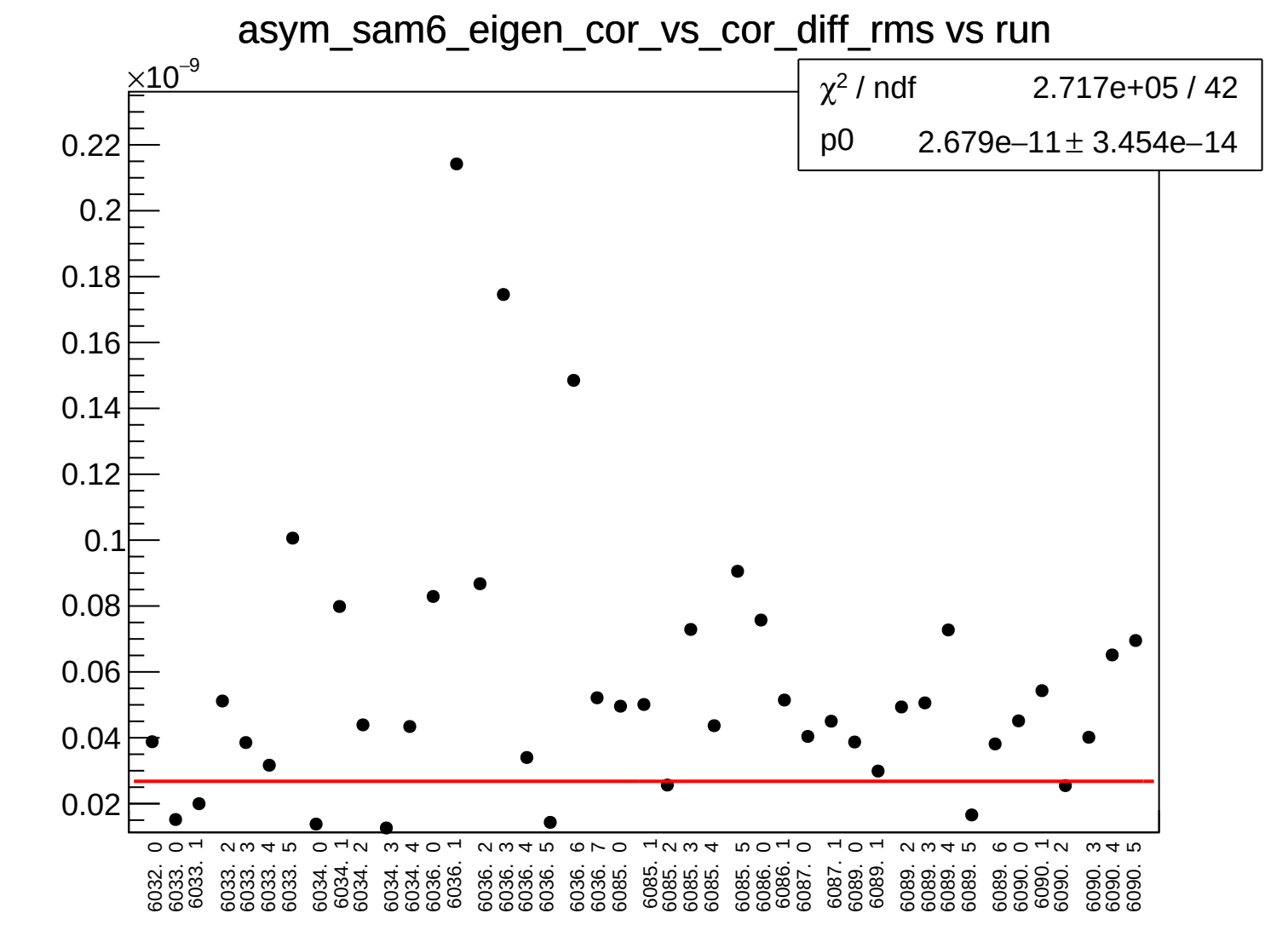

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.558e+04 / 42
p0 68.39 ± 0.07706
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

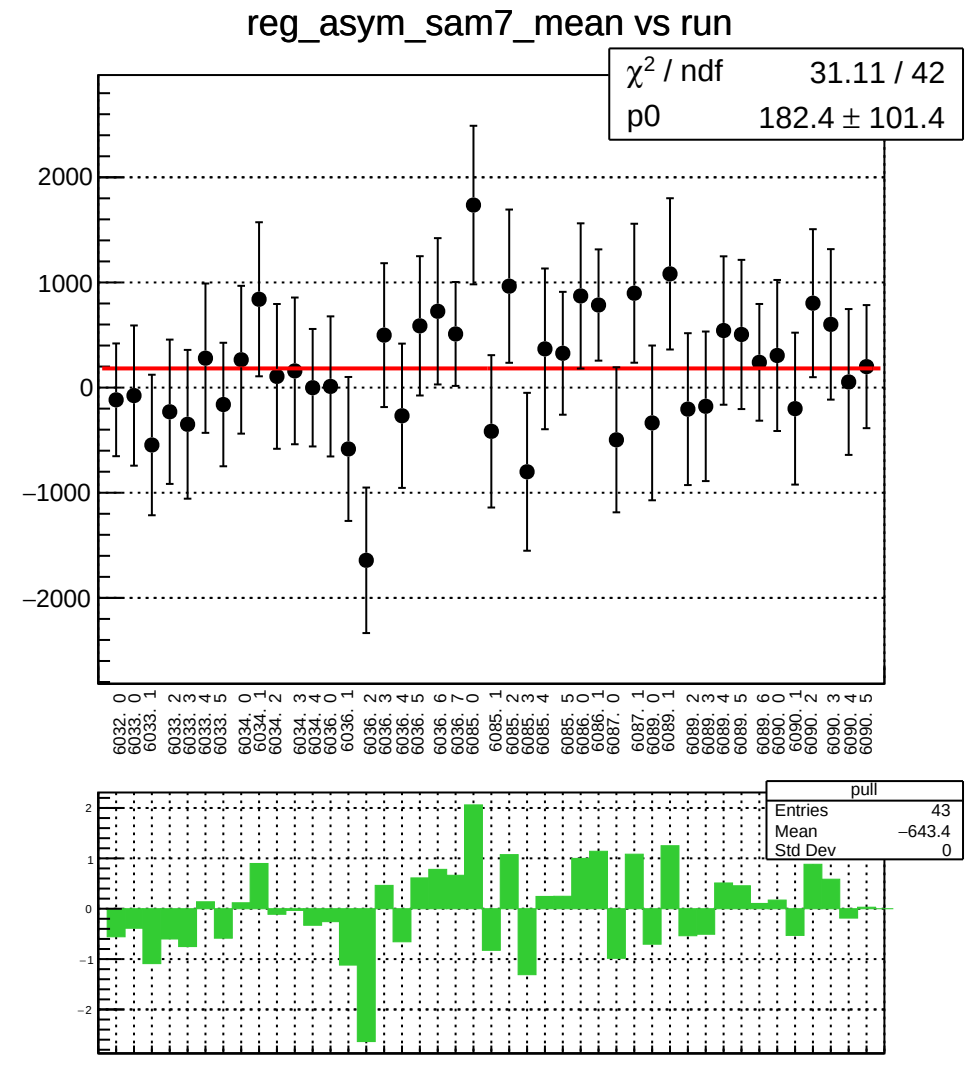

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.74 / 42
p0 −0.1704 ± 0.109
pull
Entries 43
Mean −13.32
Std Dev 0

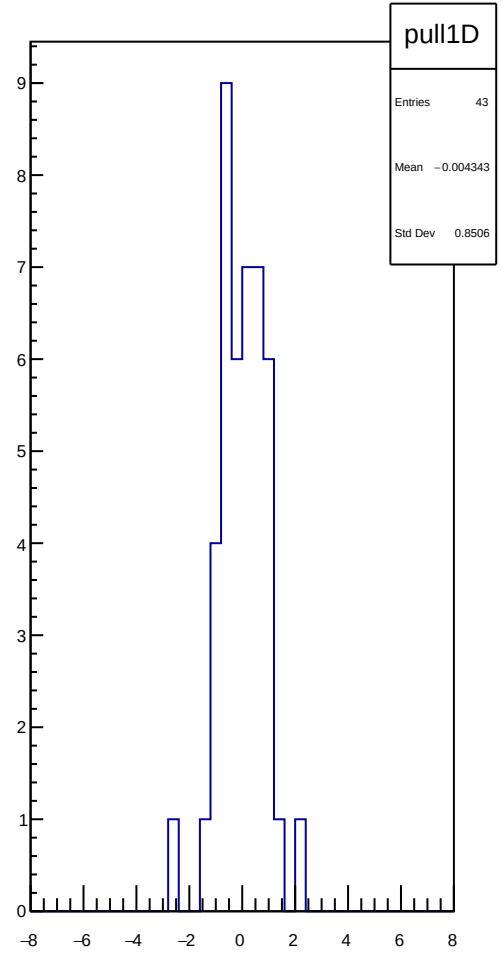

pull1D
Entries 43
Mean 0.007796
Std Dev 0.8989

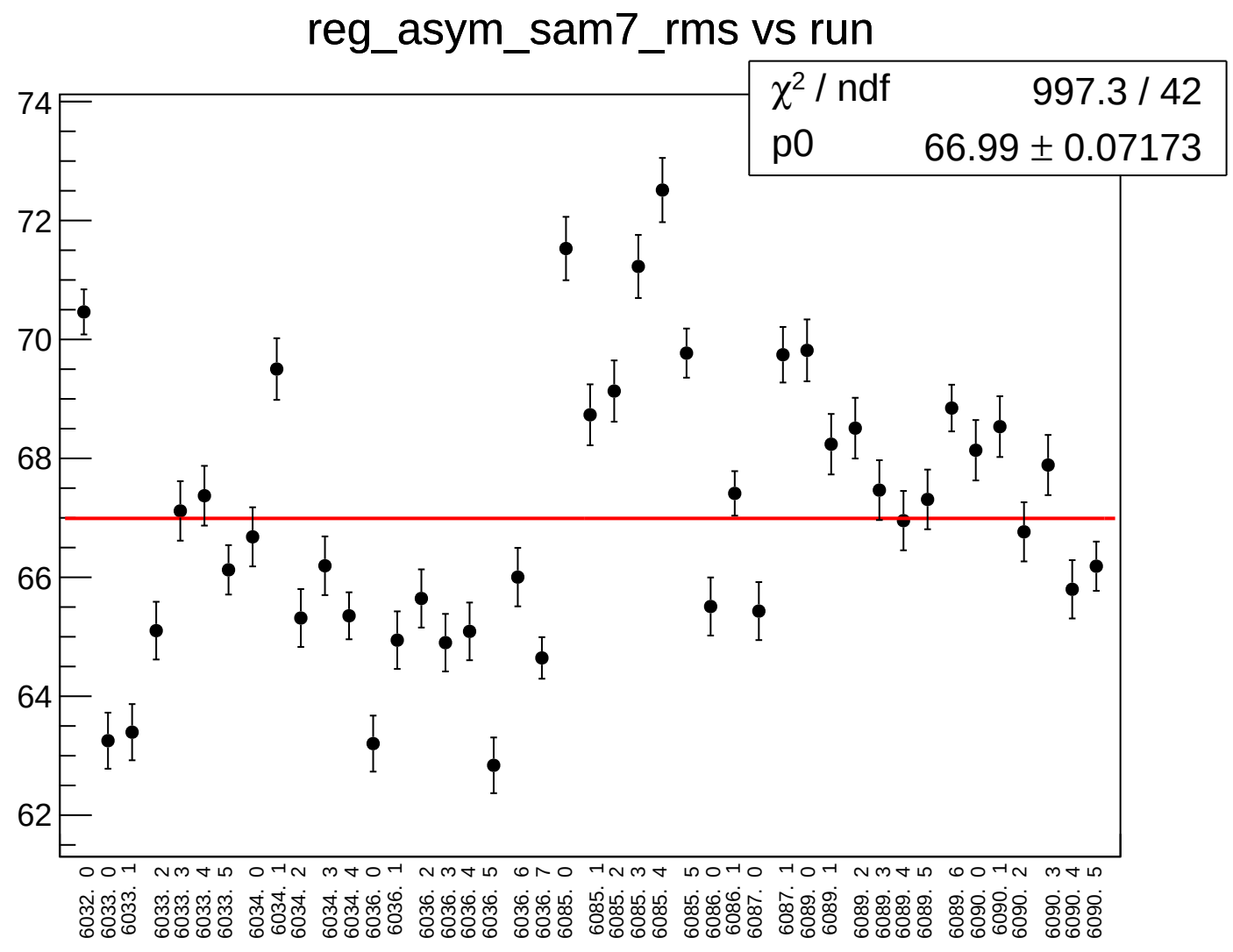

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.558e+04 / 42
p0 68.39 ± 0.07706
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

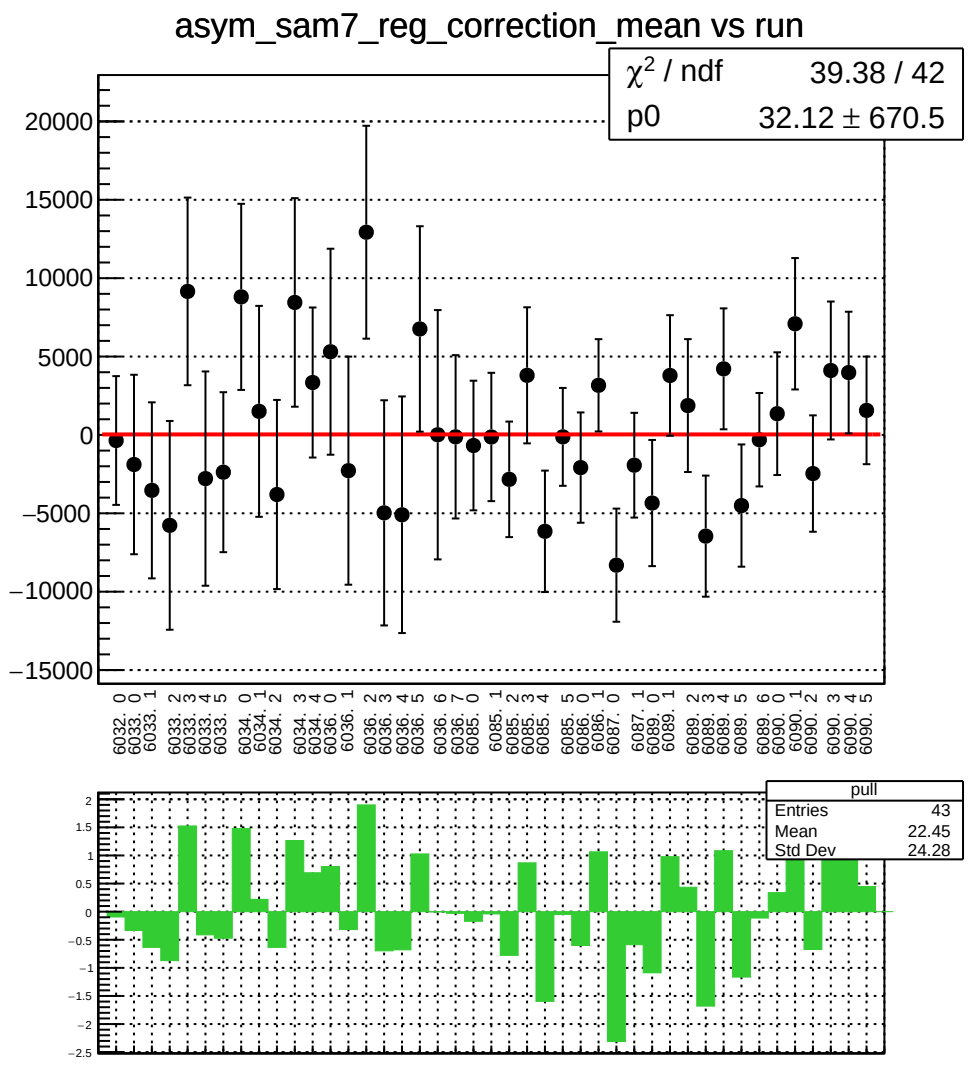

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 36.48 / 42
p0 2.095e−14 ± 4.885e−14
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 127.8
Std Dev 0
pull1D
Entries 43
Mean −0.03528
Std Dev 0.9205

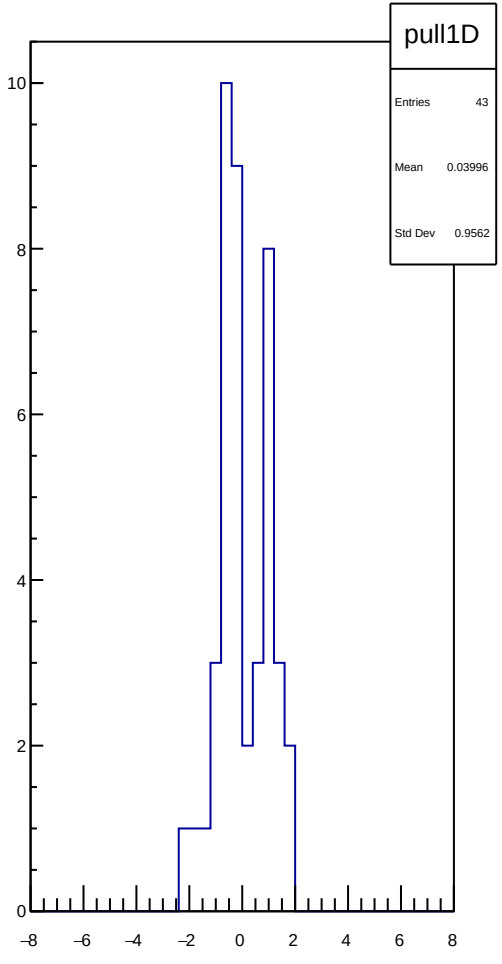

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.717e+05 / 42
p0 2.679e−11 ± 3.454e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

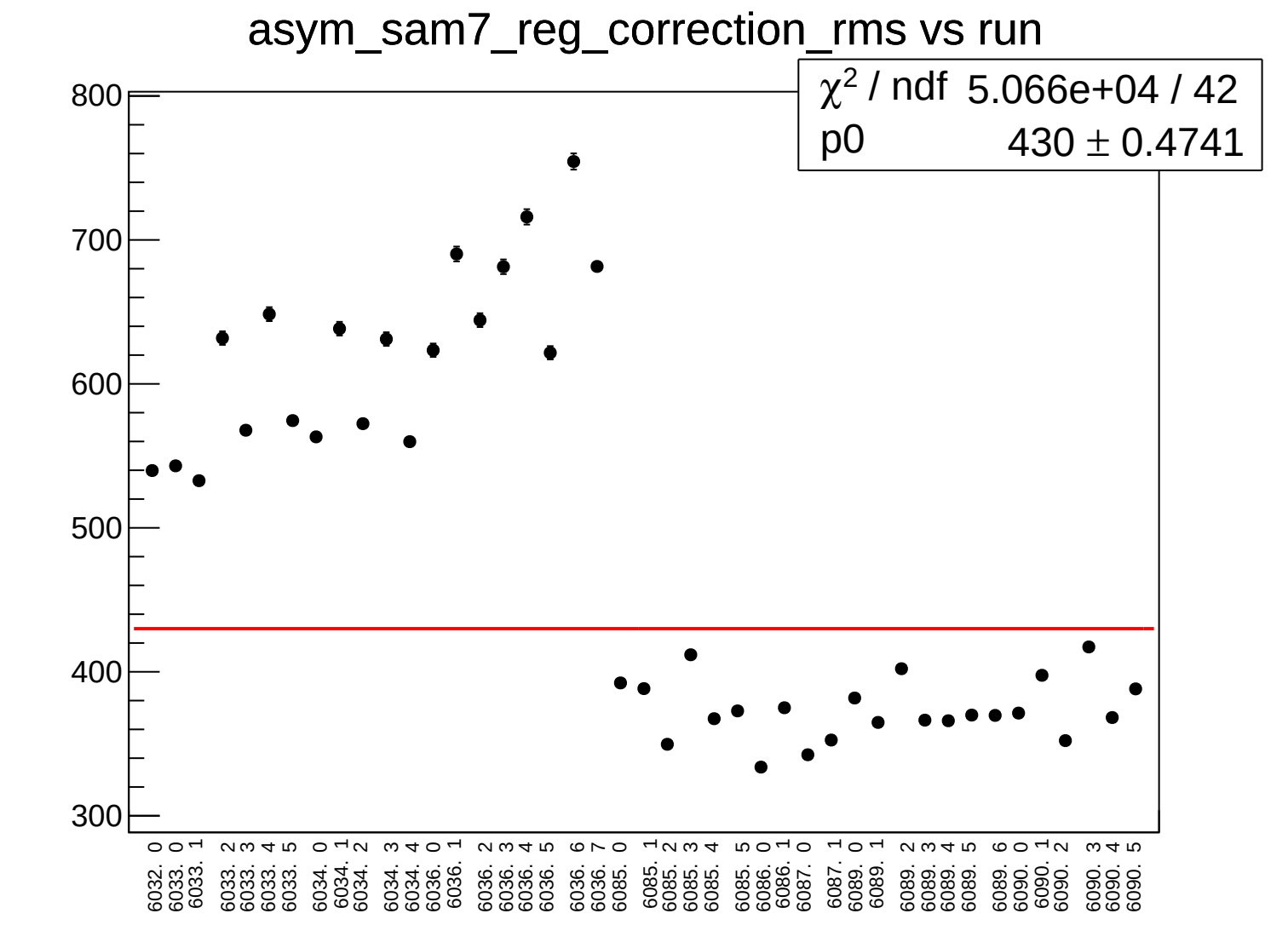

reg_asym_sam7_mean vs run
χ² / ndf 31.11 / 42
p0 182.4 ± 101.4
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −643.4
Std Dev 0
2
1
0
−1
−2

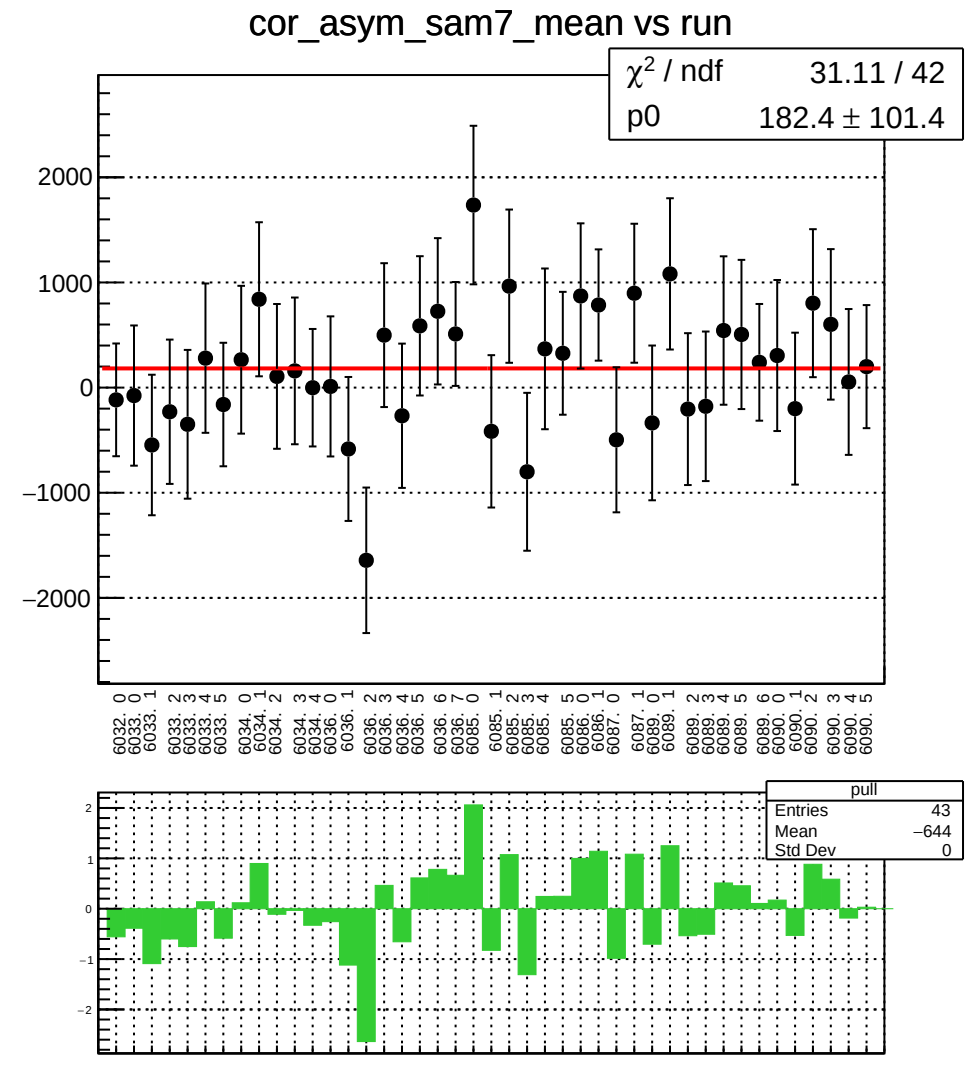

pull1D
Entries 43
Mean −0.004343
Std Dev 0.8506
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

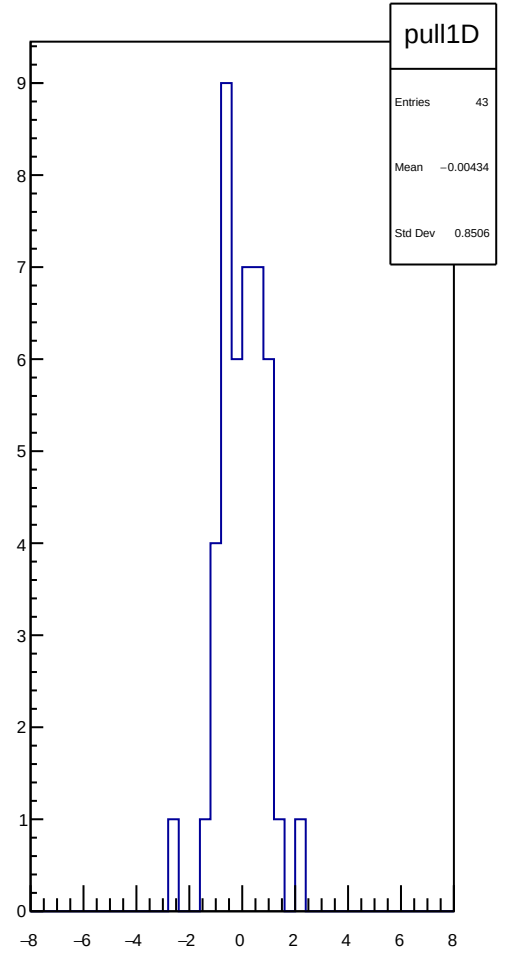

reg_asym_sam7_rms vs run
χ² / ndf 997.3 / 42
p0 66.99 ± 0.07173
74
72
70
68
66
64
62
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

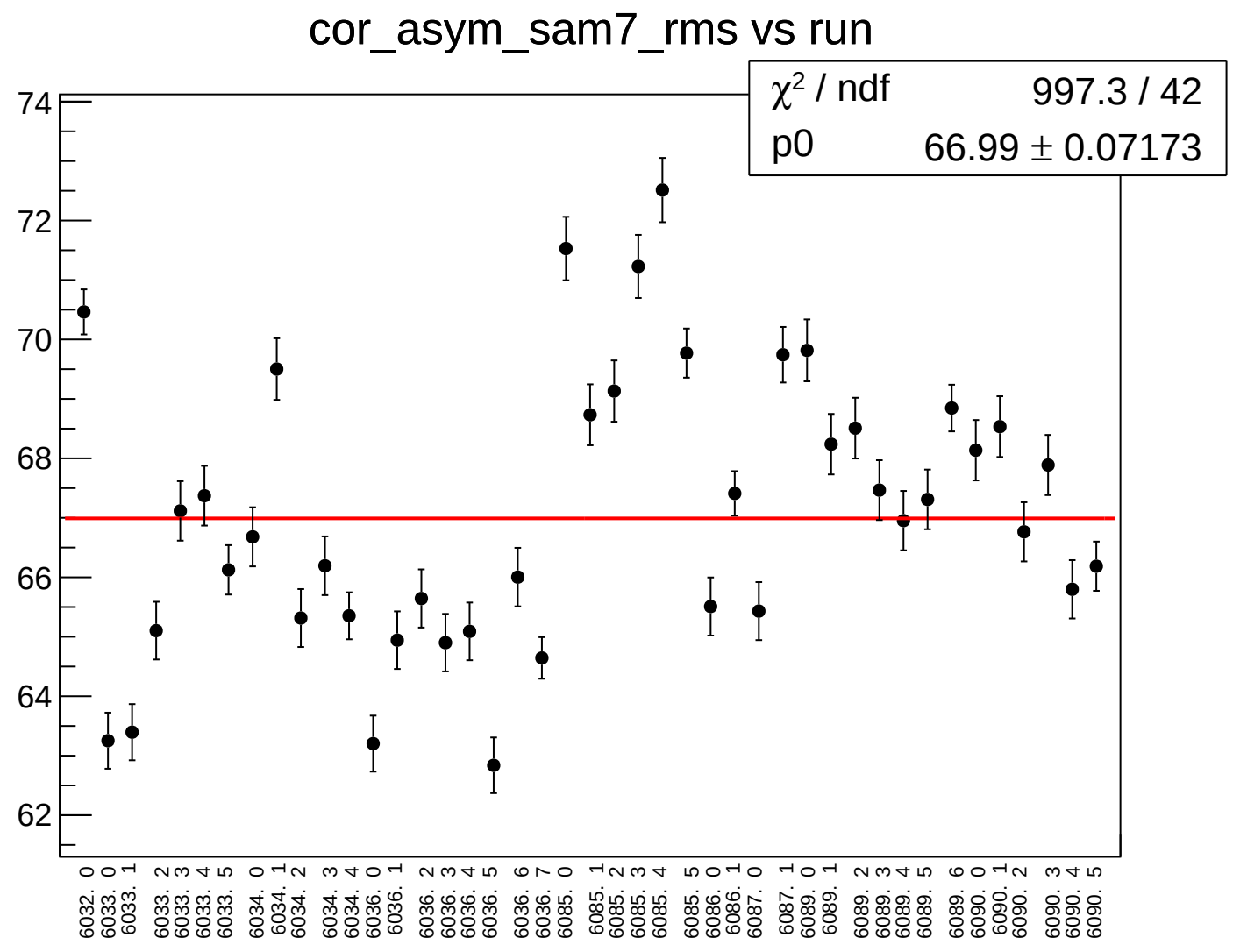

asym_sam7_reg_correction_mean vs run
χ² / ndf 39.38 / 42
p0 32.12 ± 670.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.45
Std Dev 24.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

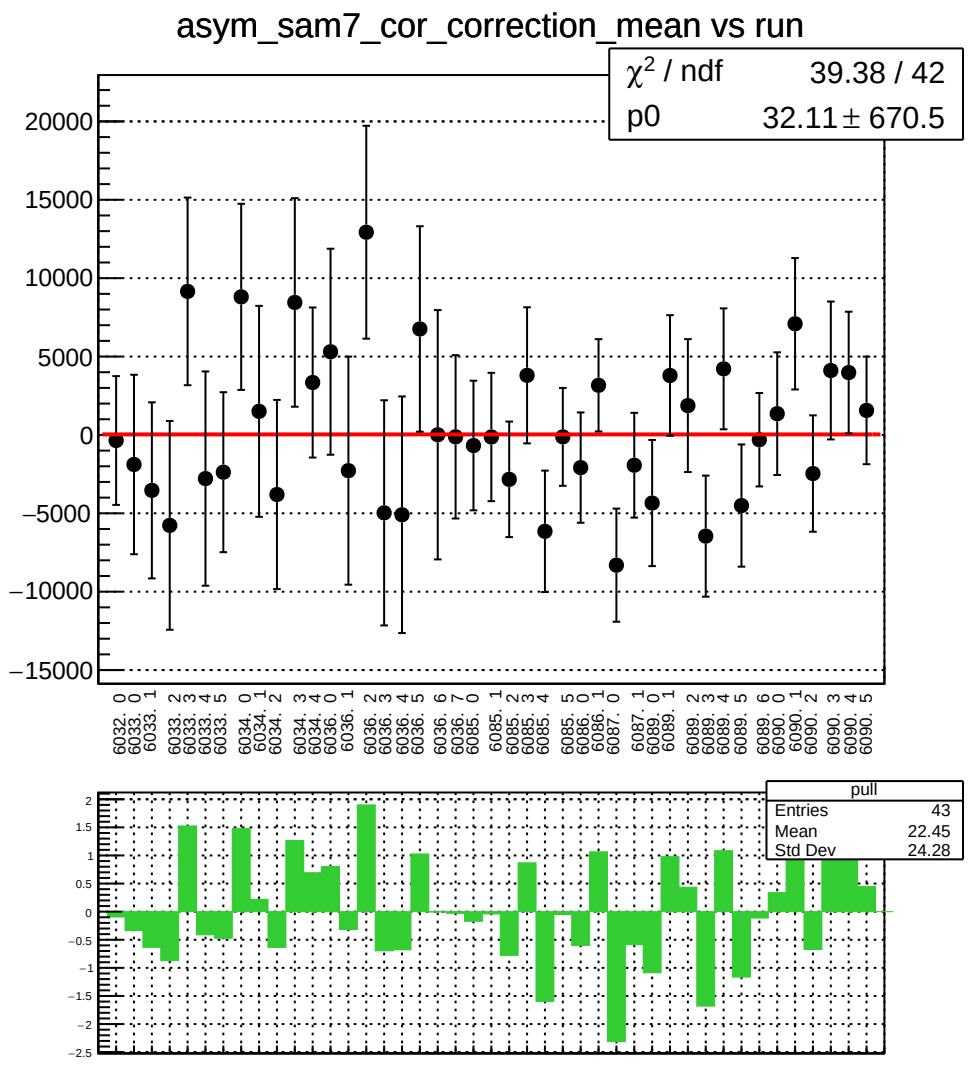

pull1D
Entries 43
Mean 0.03996
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

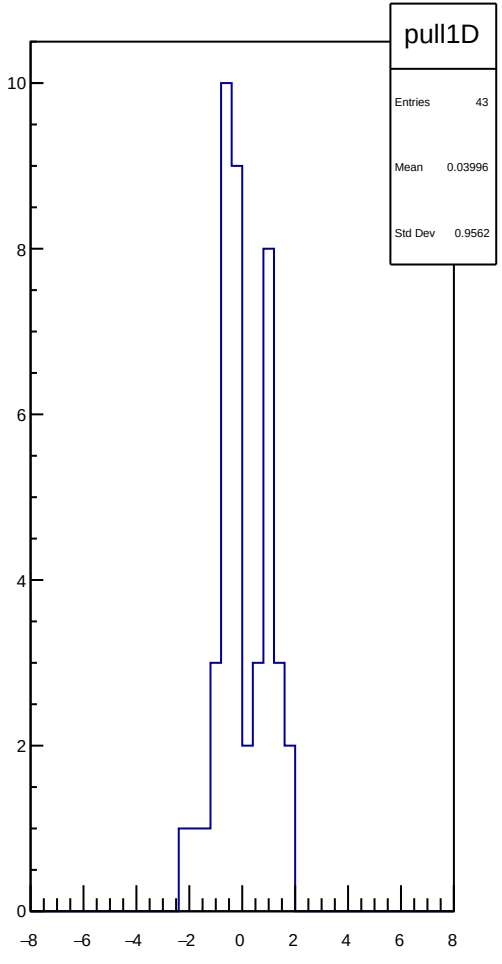

asym_sam7_reg_correction_rms vs run
χ² / ndf 5.066e+04 / 42
p0 430 ± 0.4741
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

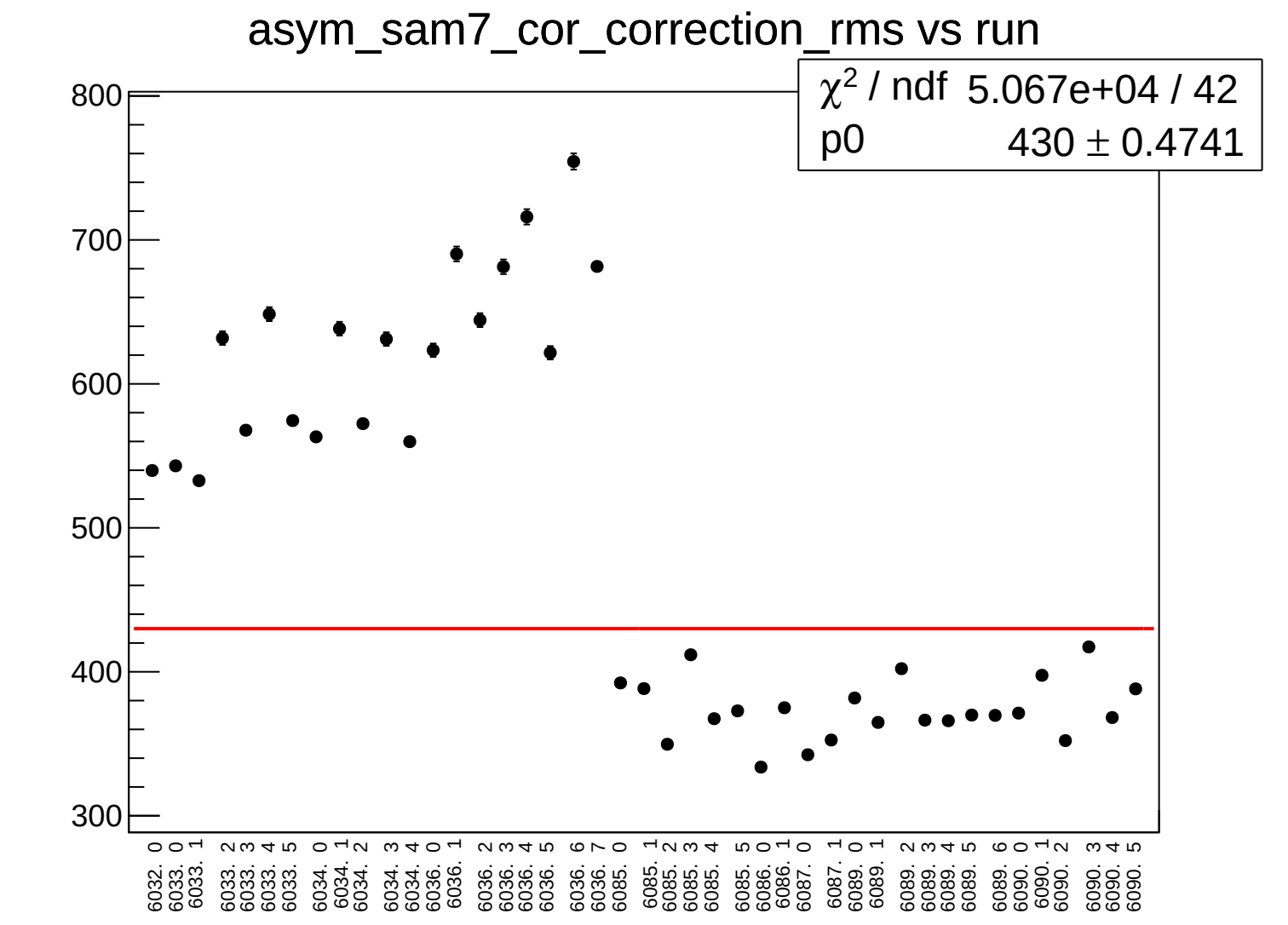

cor_asym_sam7_mean vs run
χ² / ndf 31.11 / 42
p0 182.4 ± 101.4
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −644
Std Dev 0
2
1
0
−1
−2

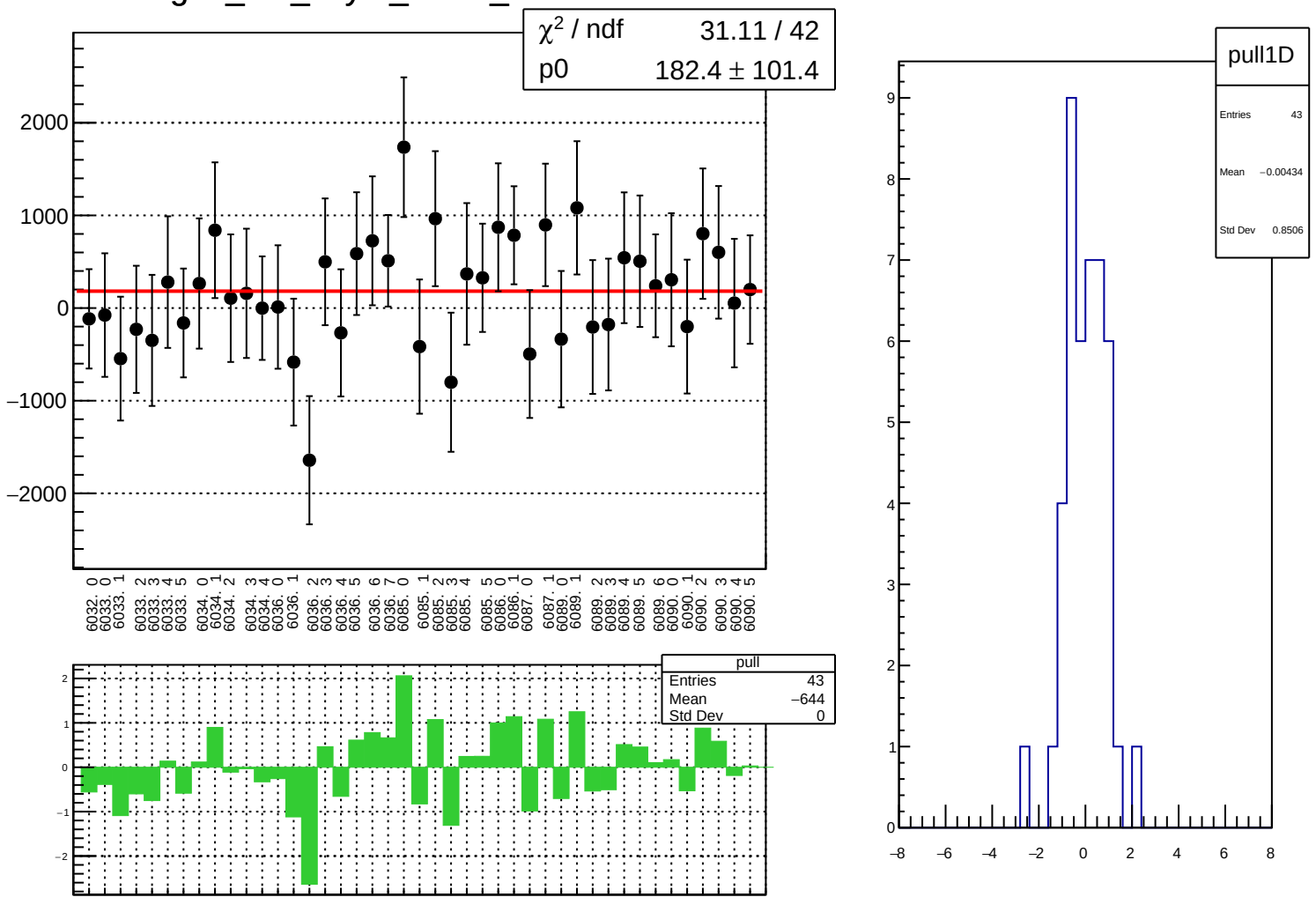

pull1D
Entries 43
Mean −0.00434
Std Dev 0.8506
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

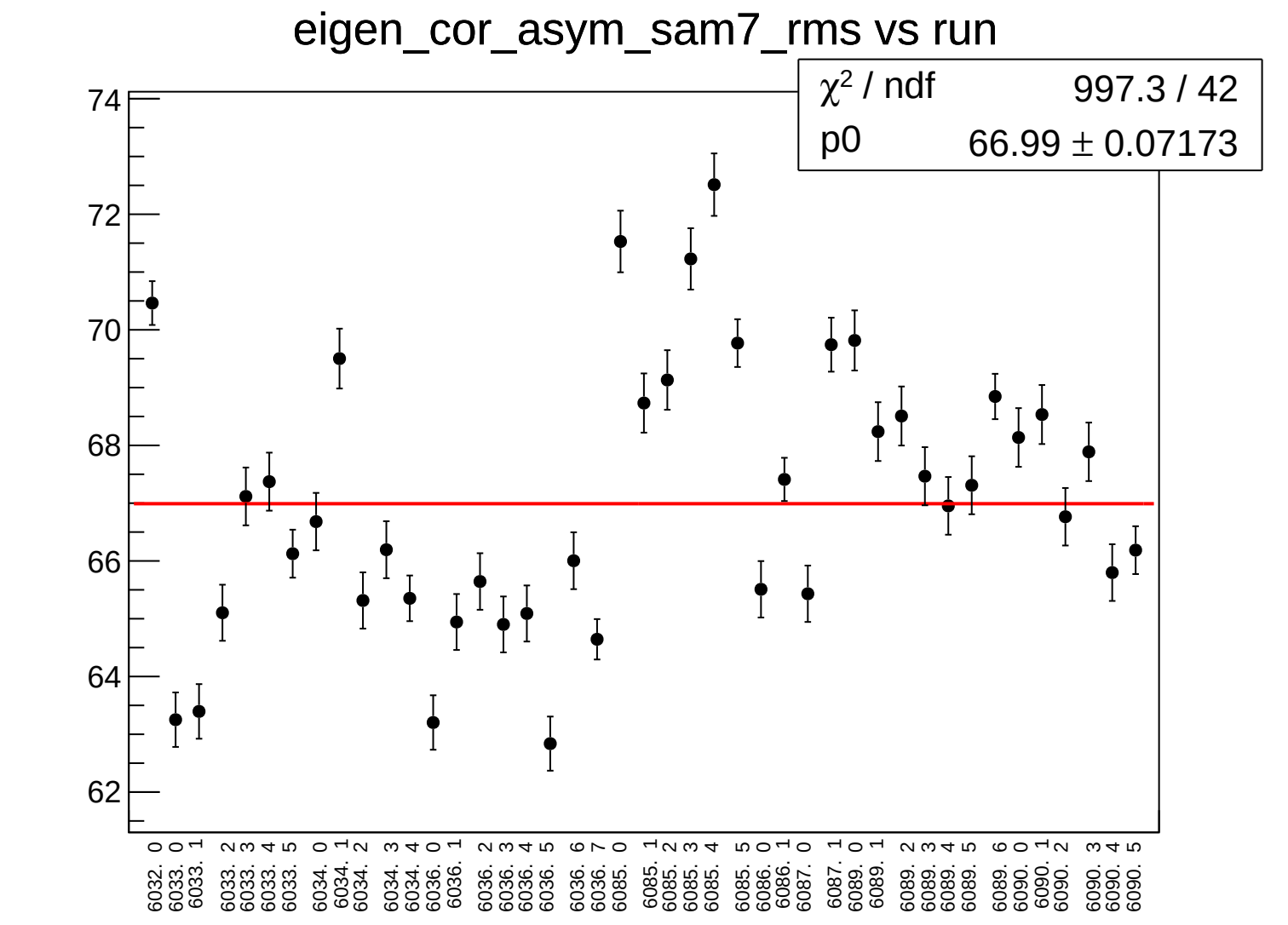

cor_asym_sam7_rms vs run
χ² / ndf 997.3 / 42
p0 66.99 ± 0.07173
74
72
70
68
66
64
62
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam7_cor_correction_mean vs run
χ² / ndf 39.38 / 42
p0 32.11 ± 670.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.45
Std Dev 24.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.03996
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_cor_correction_rms vs run
χ² / ndf 5.067e+04 / 42
p0 430 ± 0.4741
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_sam7_mean vs run
χ² / ndf 31.11 / 42
p0 182.4 ± 101.4
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −644
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00434
Std Dev 0.8506
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam7_rms vs run
χ² / ndf 997.3 / 42
p0 66.99 ± 0.07173
74
72
70
68
66
64
62
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
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6036. 5
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6086. 0
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6087. 1
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6090. 0
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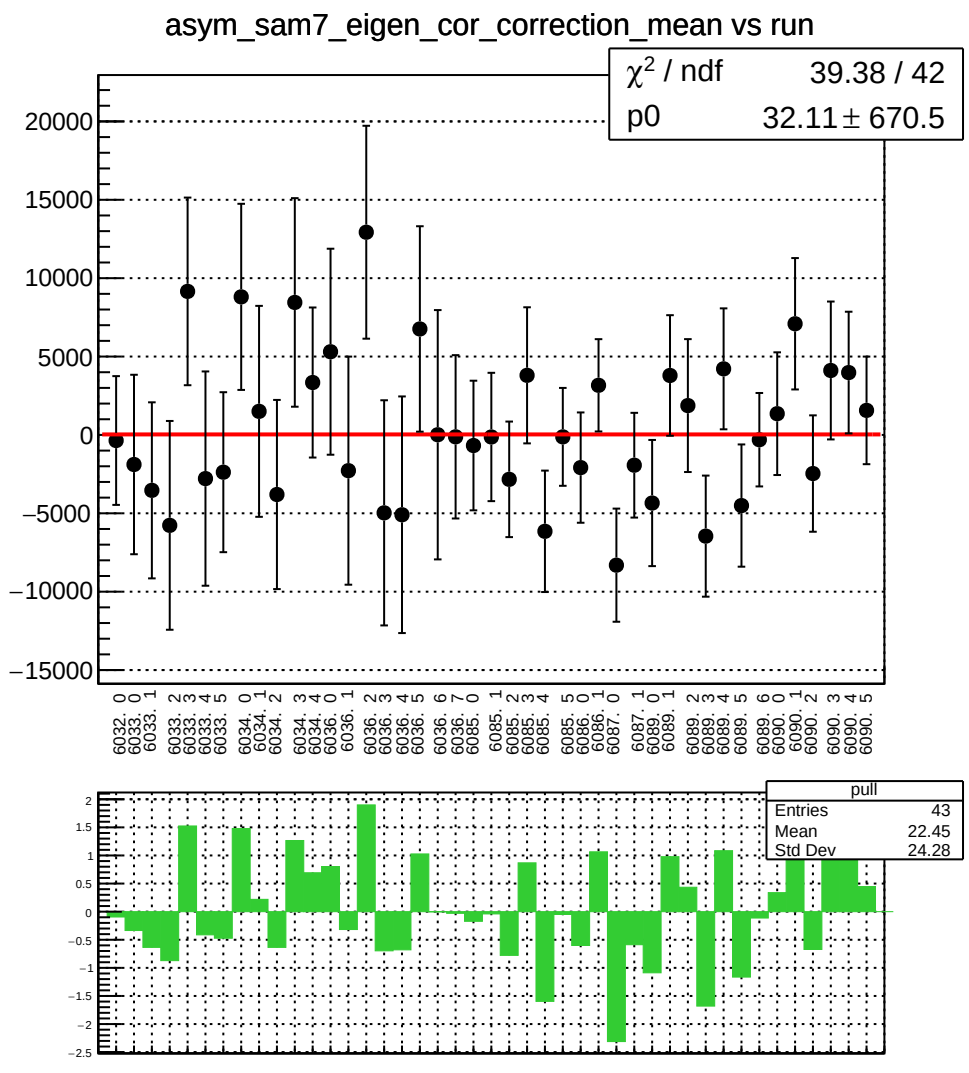
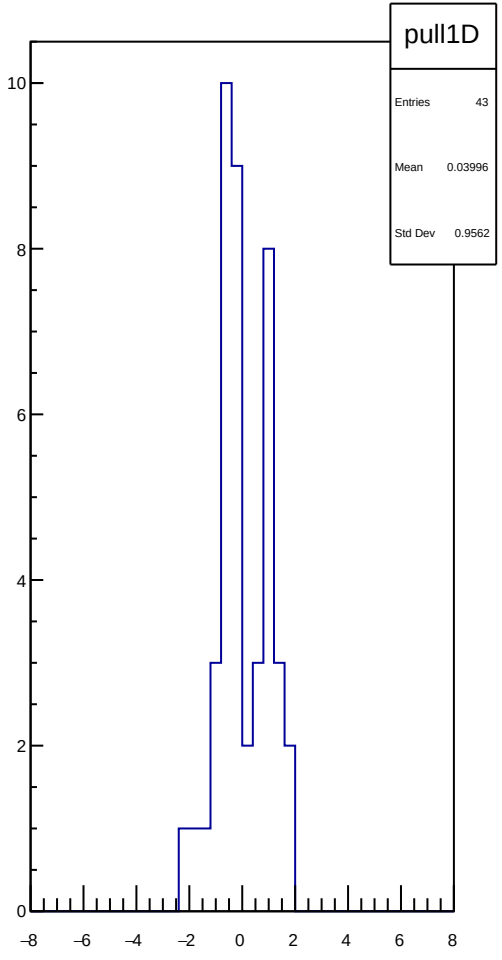
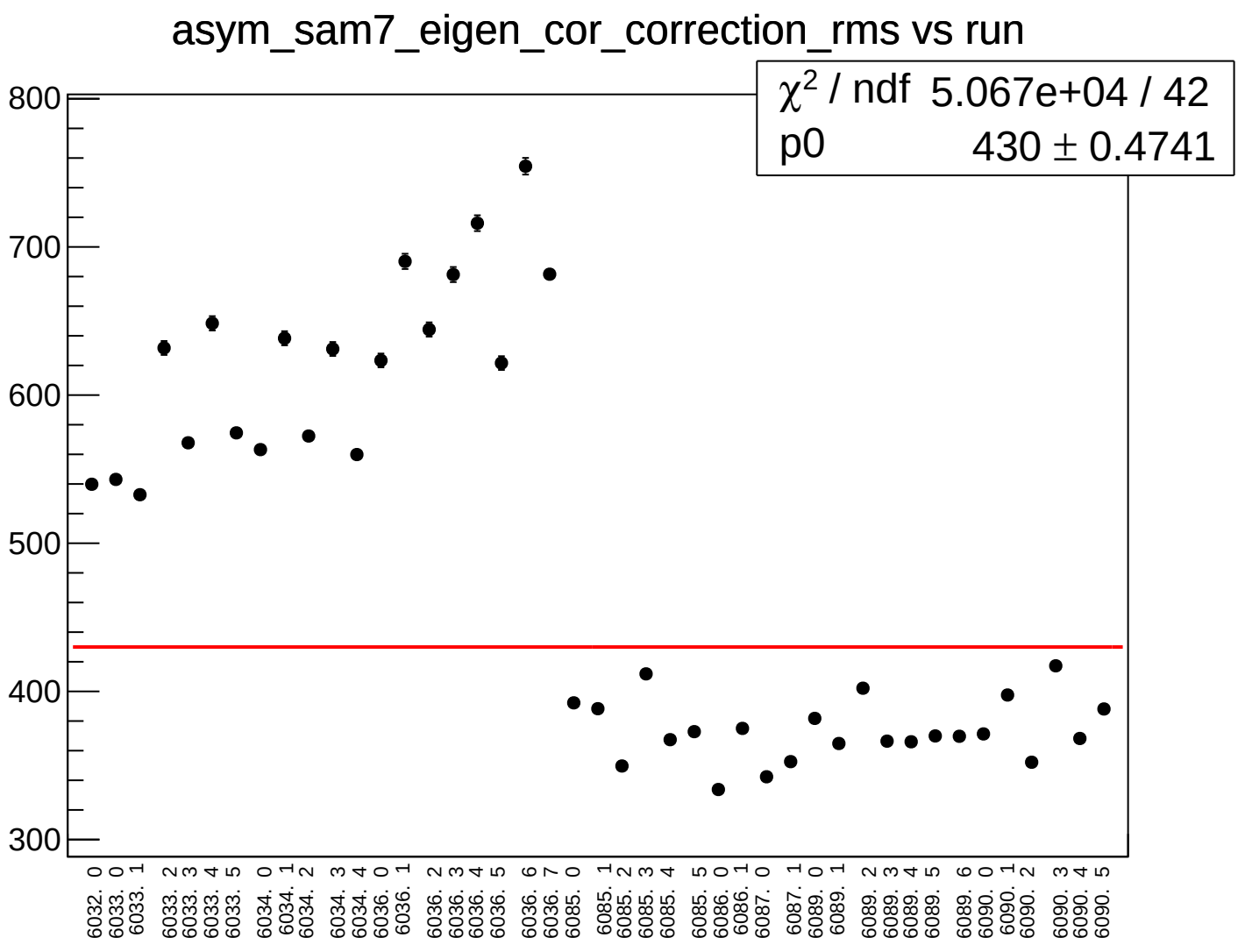
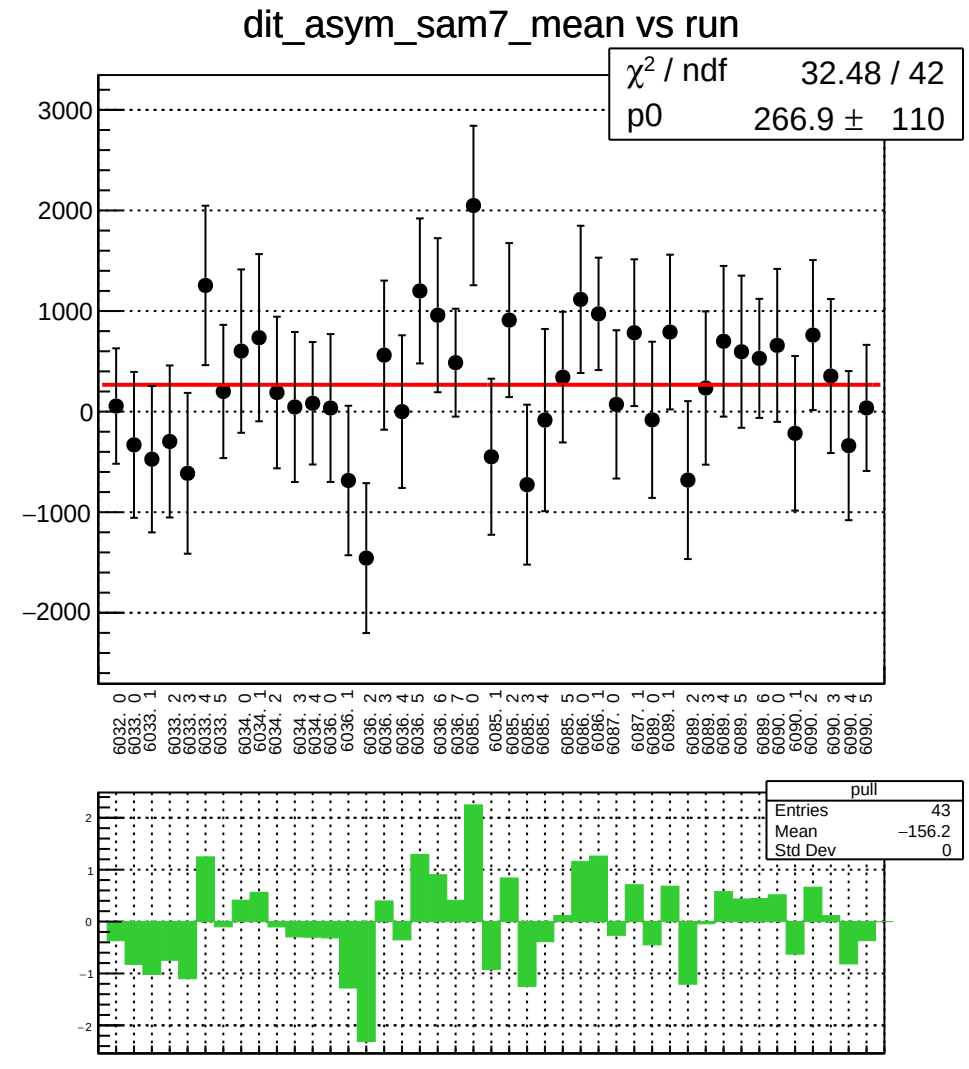
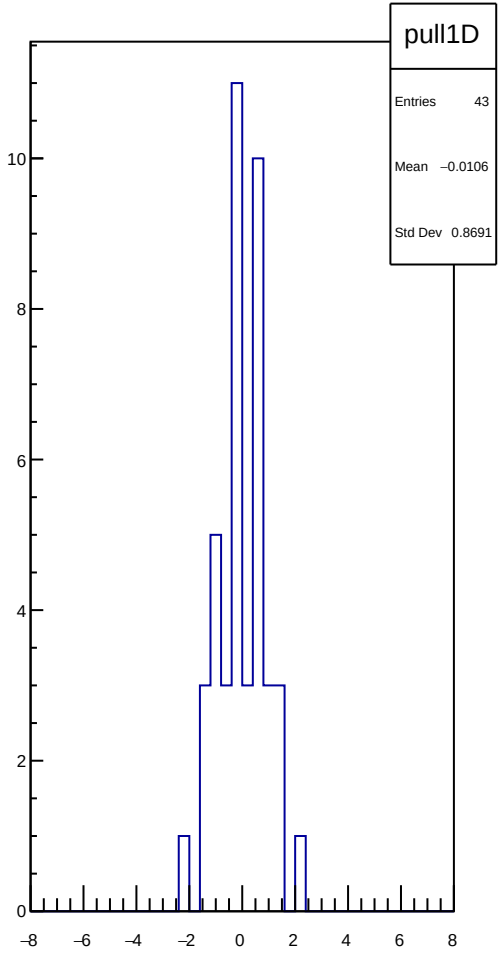
6090. 4
6090. 5

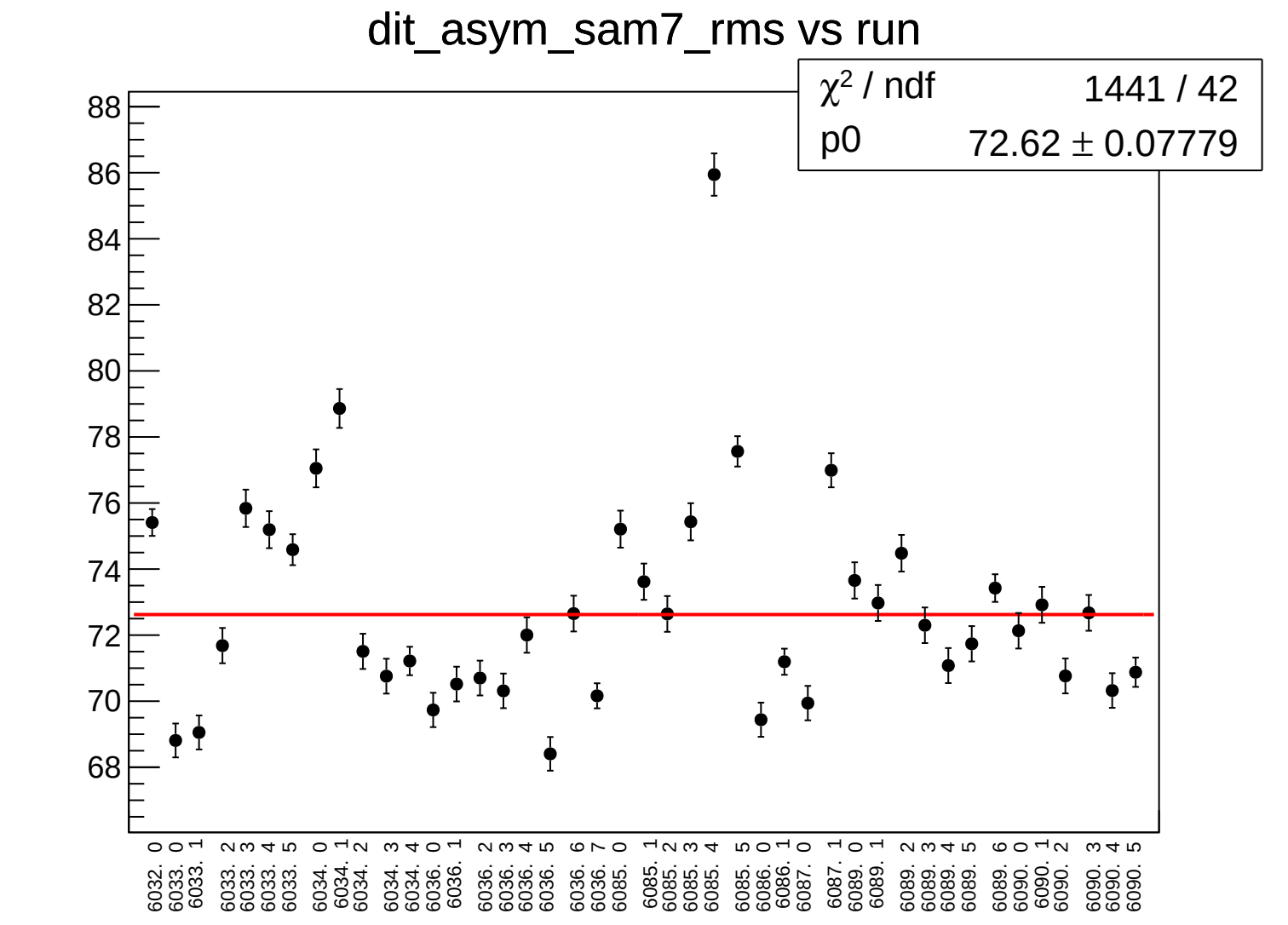

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 39.38 / 42
p0 32.11 ± 670.5
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.45
Std Dev 24.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

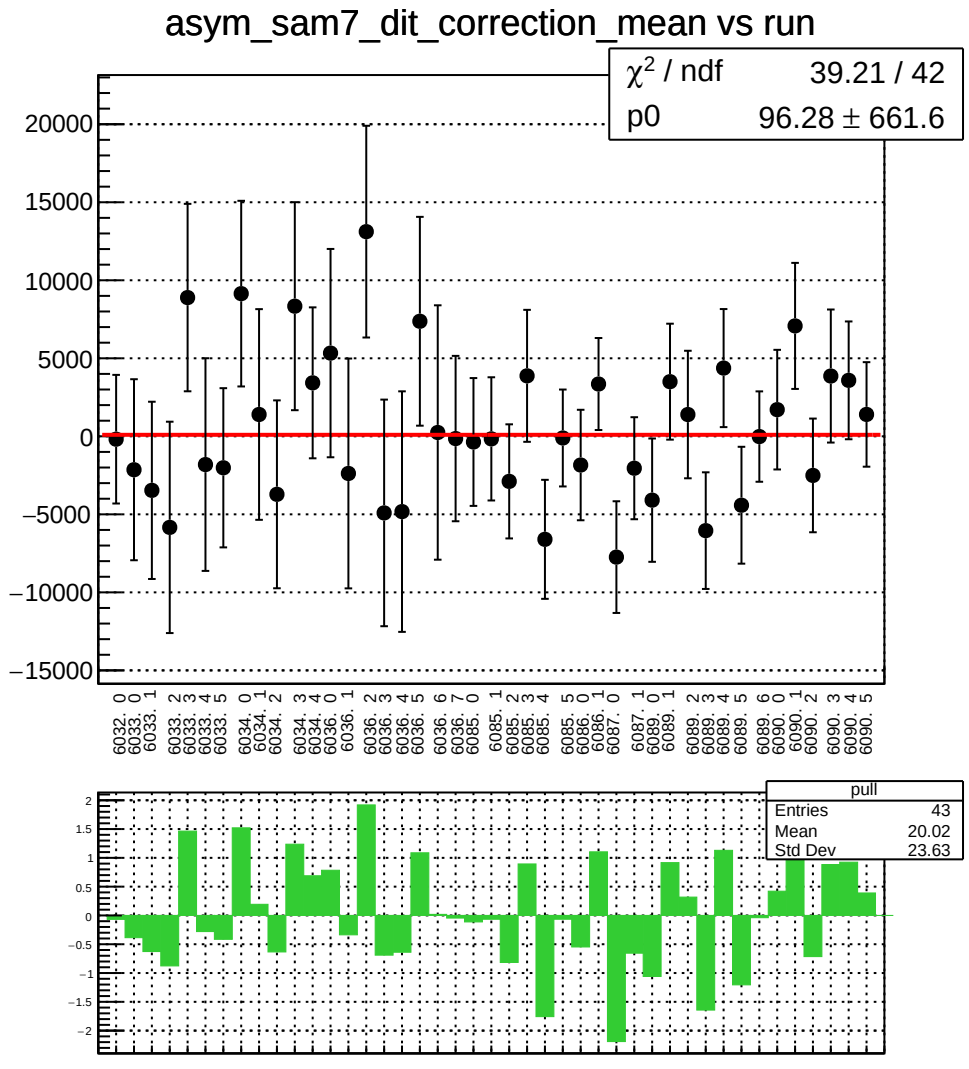

pull1D
Entries 43
Mean 0.03996
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

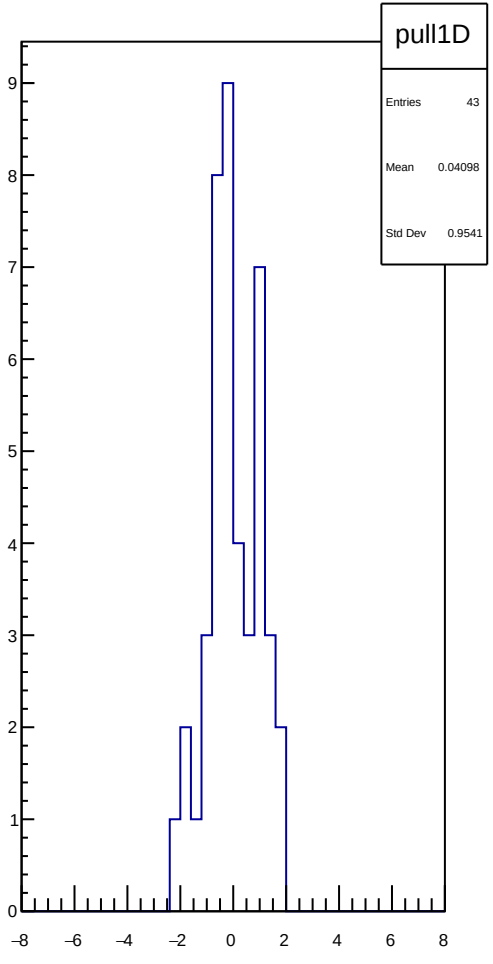

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 5.067e+04 / 42
p0 430 ± 0.4741
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

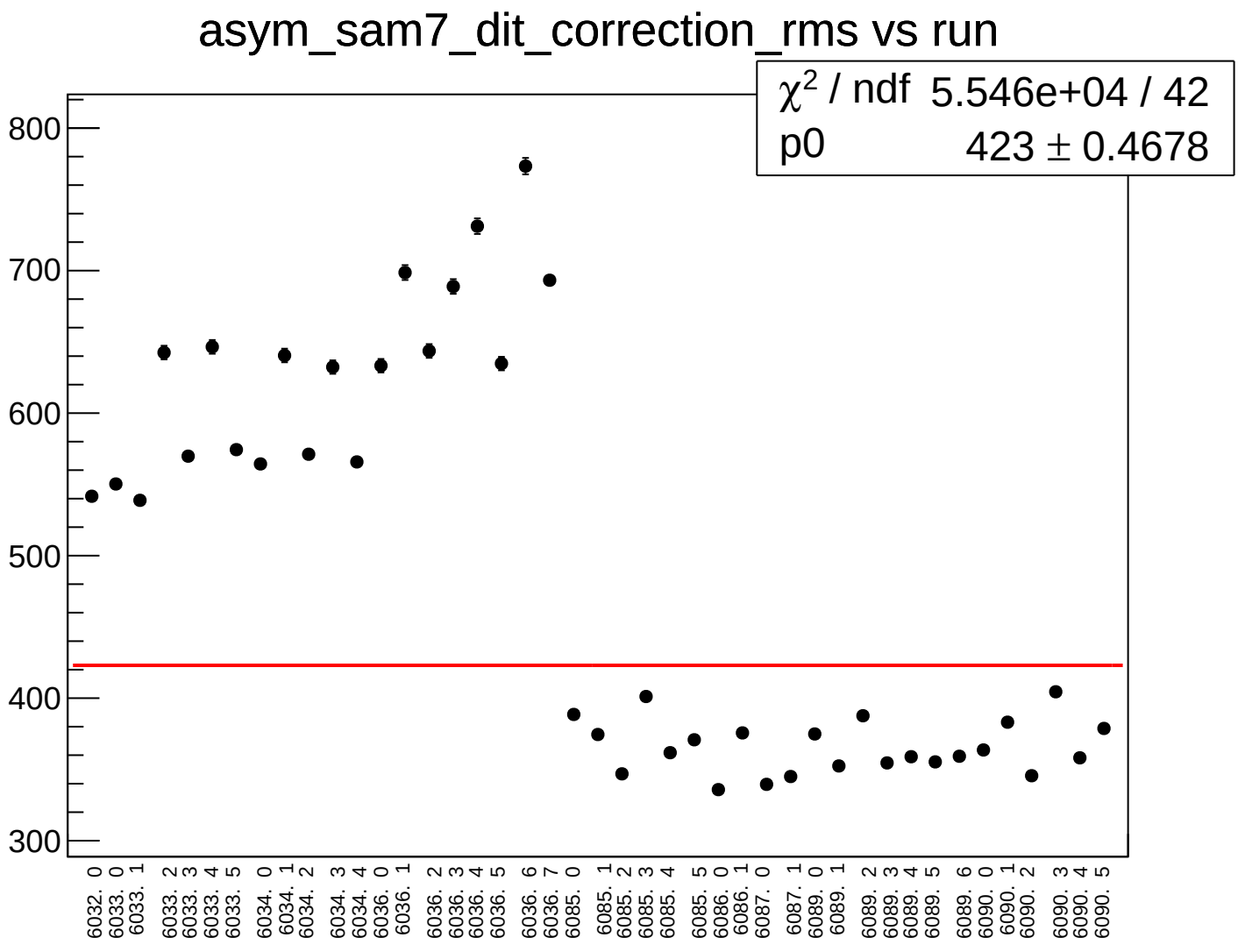

dit_asym_sam7_mean vs run
χ² / ndf 32.48 / 42
p0 266.9 ± 110
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −156.2
Std Dev 0
2
1
0
−1
−2

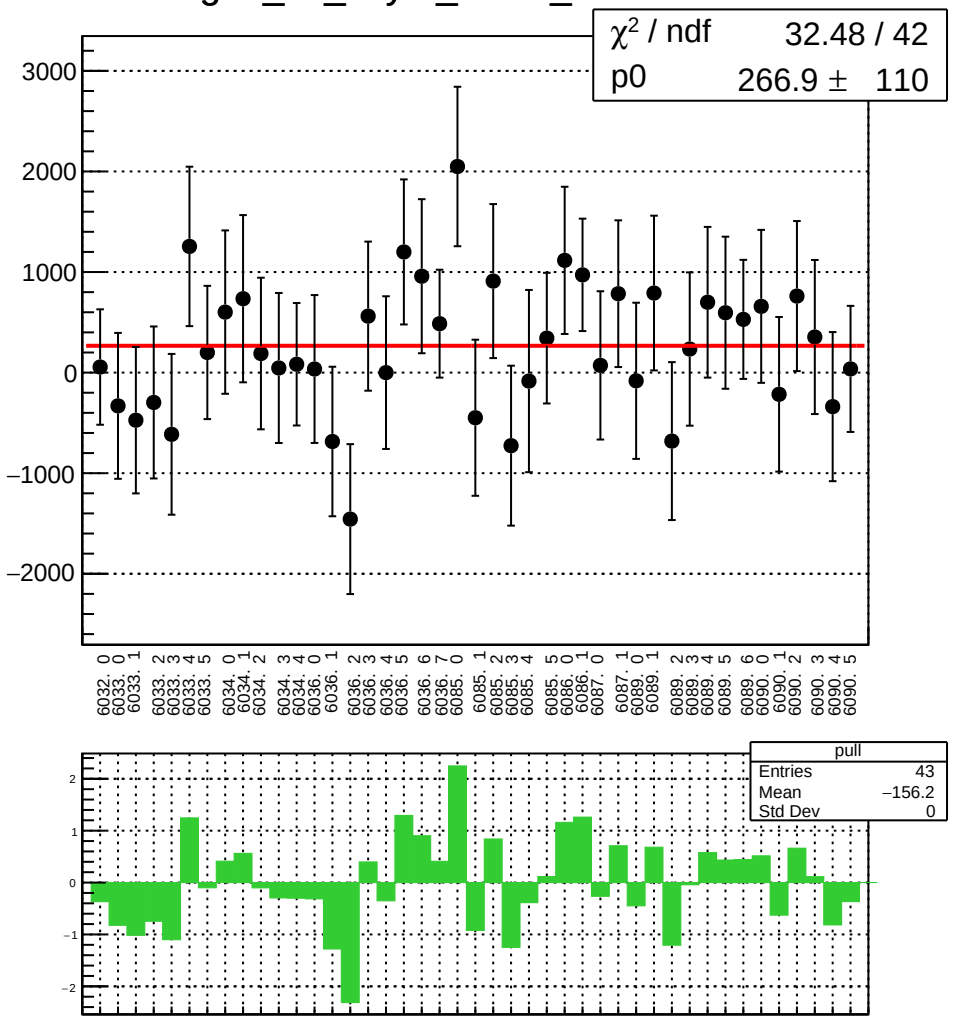

pull1D
Entries 43
Mean −0.0106
Std Dev 0.8691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

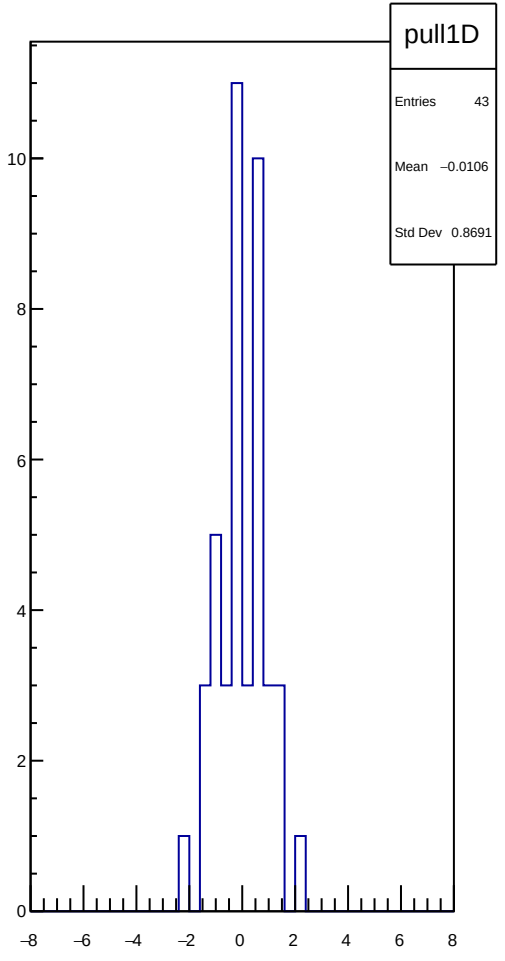

dit_asym_sam7_rms vs run
χ² / ndf 1441 / 42
p0 72.62 ± 0.07779
88
86
84
82
80
78
76
74
72
70
68
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

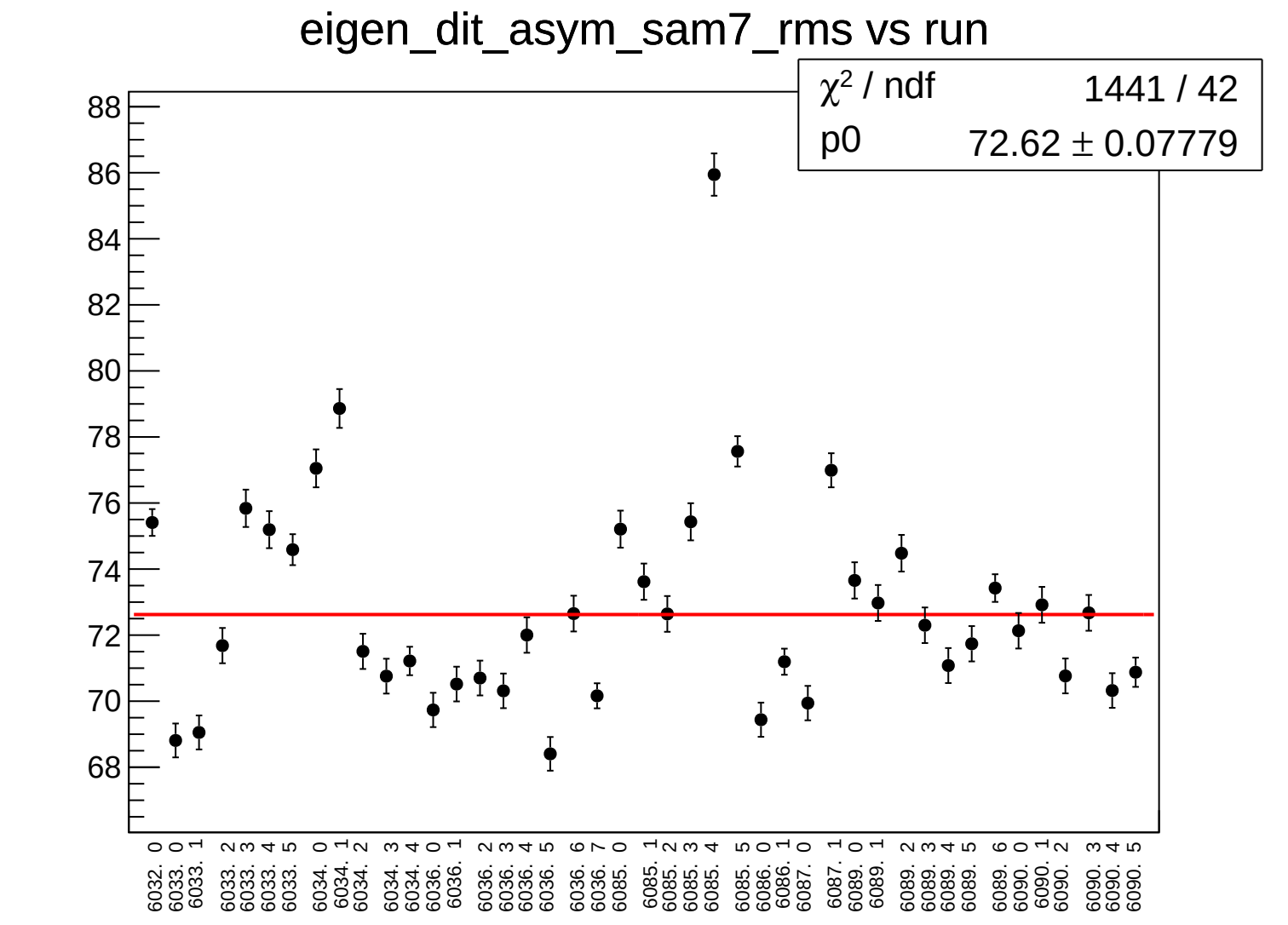

asym_sam7_dit_correction_mean vs run
χ² / ndf 39.21 / 42
p0 96.28 ± 661.6
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.02
Std Dev 23.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

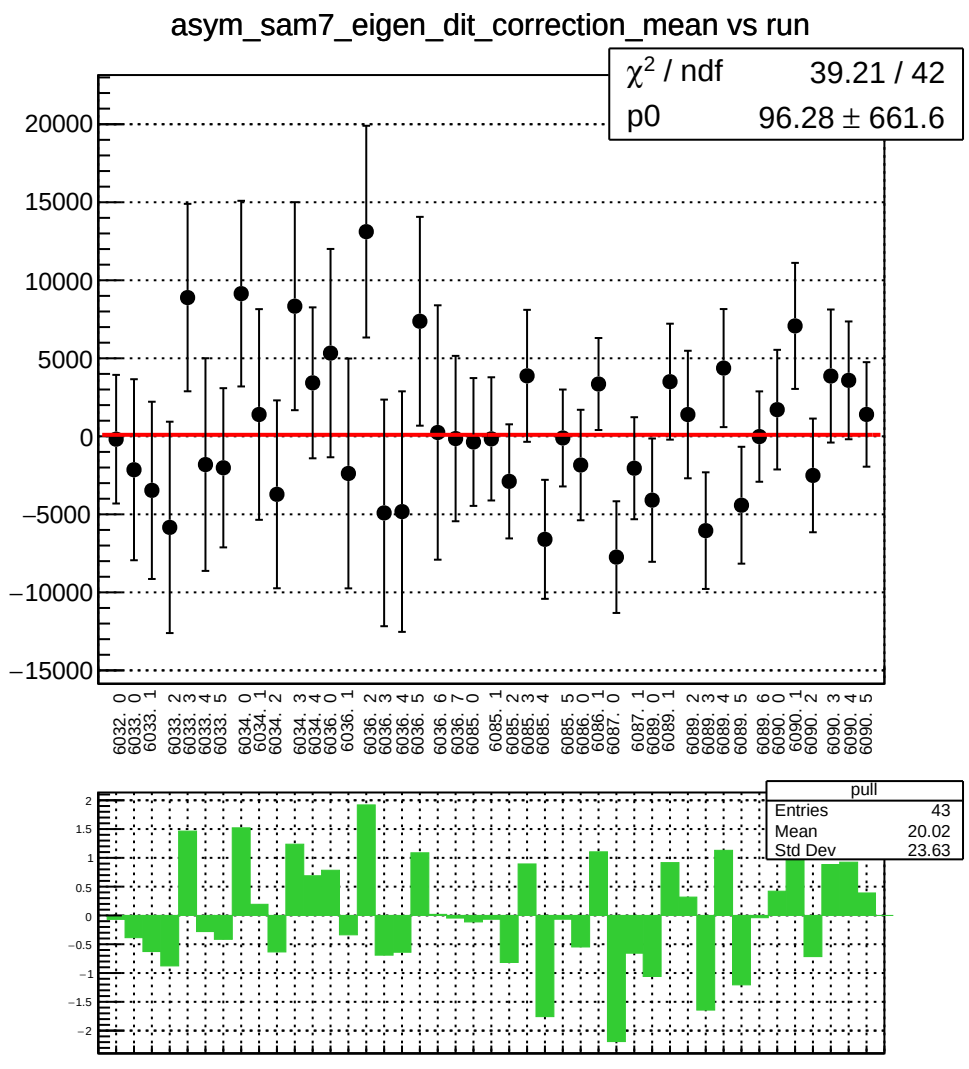

pull1D
Entries 43
Mean 0.04098
Std Dev 0.9541
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

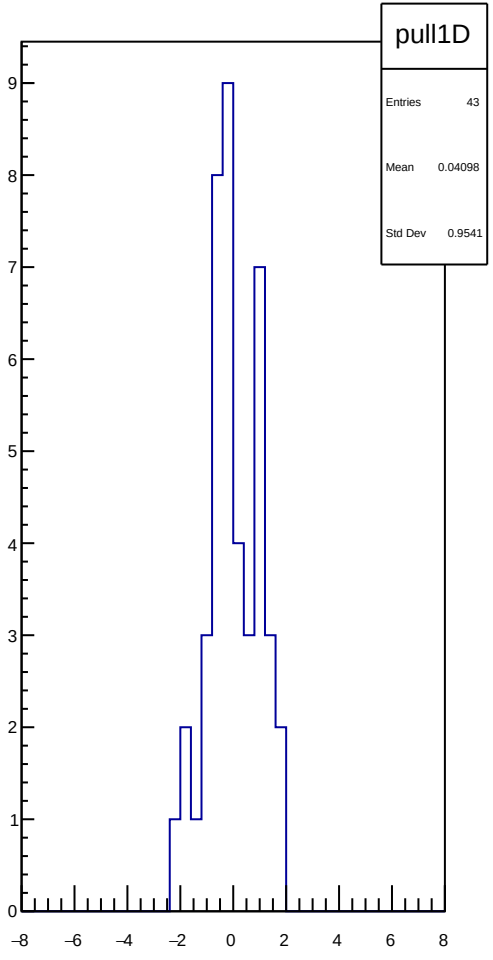

asym_sam7_dit_correction_rms vs run
χ² / ndf 5.546e+04 / 42
p0 423 ± 0.4678
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

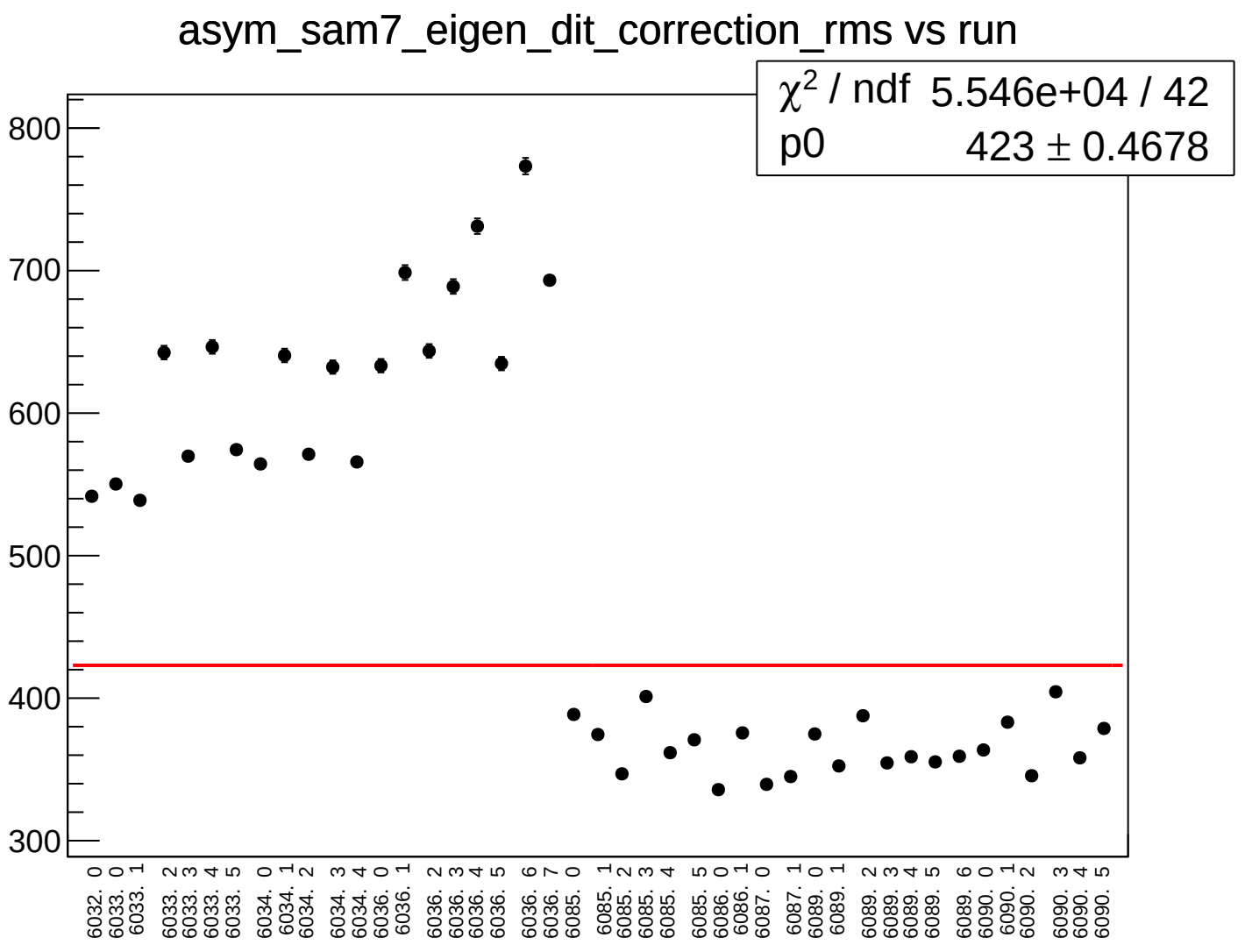

eigen_dit_asym_sam7_mean vs run
χ² / ndf 32.48 / 42
p0 266.9 ± 110
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −156.2
Std Dev 0
2
1
0
−1
−2

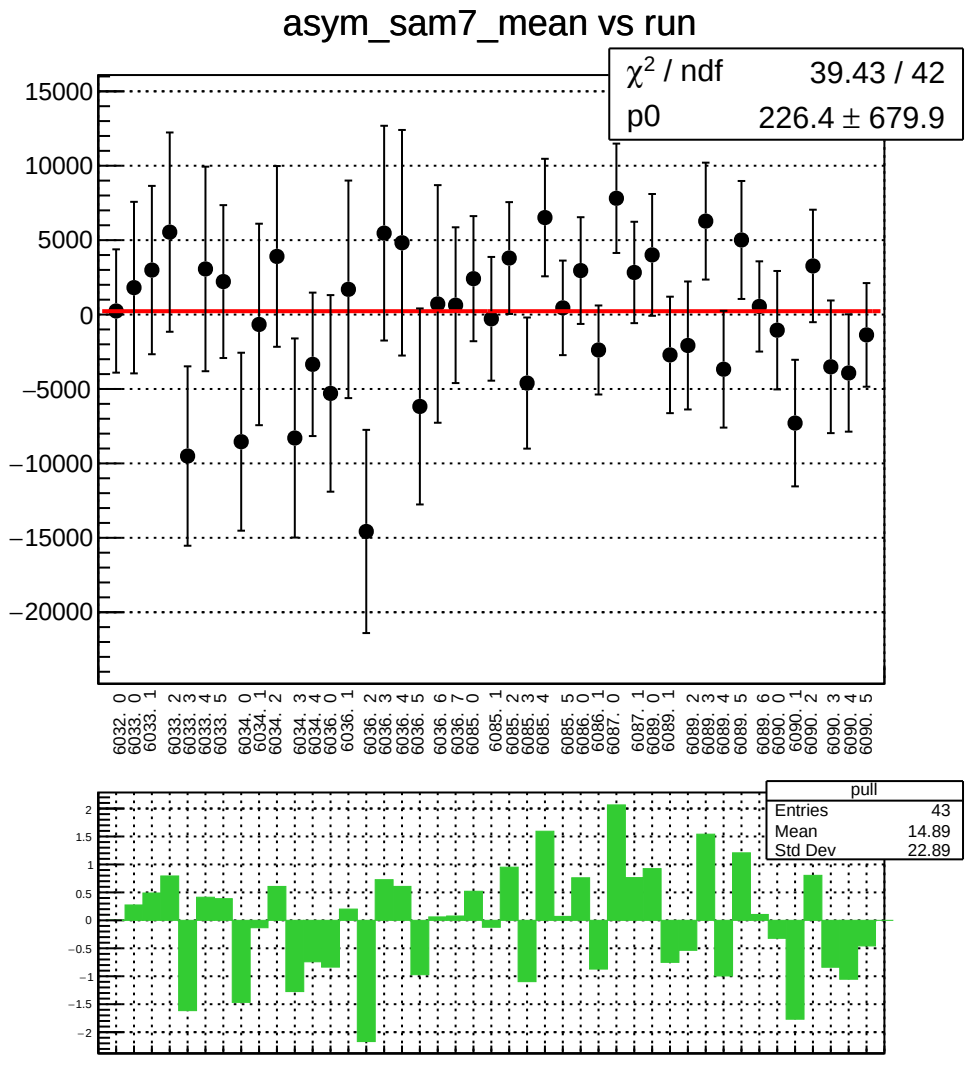

pull1D
Entries 43
Mean −0.0106
Std Dev 0.8691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

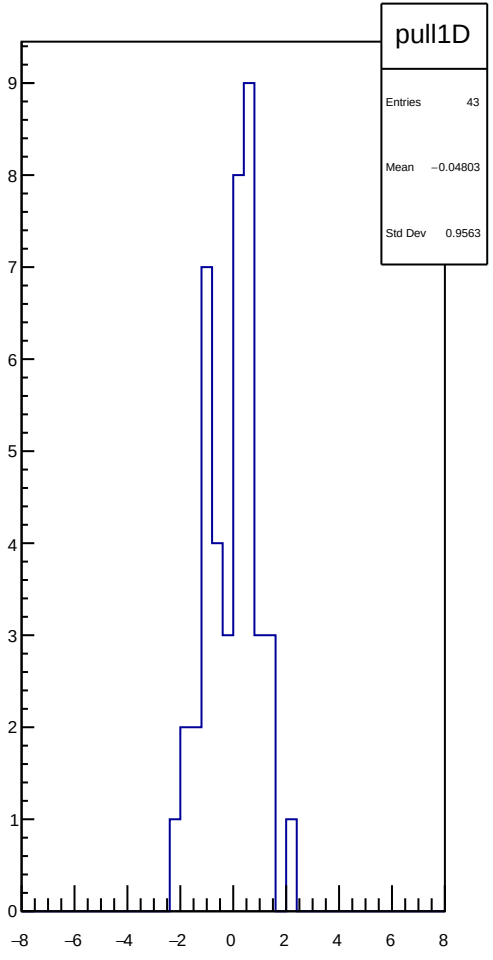

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1441 / 42
p0 72.62 ± 0.07779
88
86
84
82
80
78
76
74
72
70
68
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

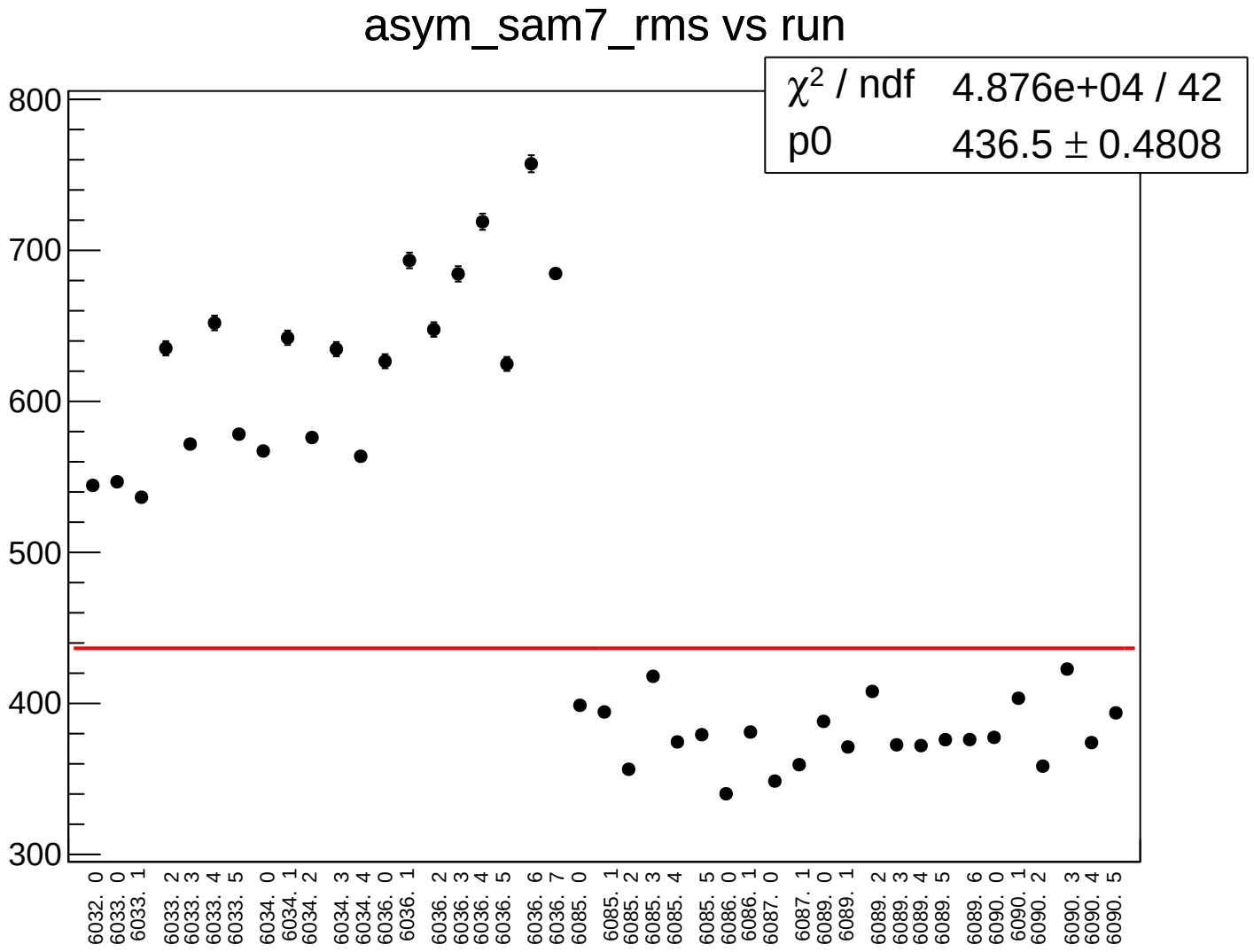

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 39.21 / 42
p0 96.28 ± 661.6
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.02
Std Dev 23.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

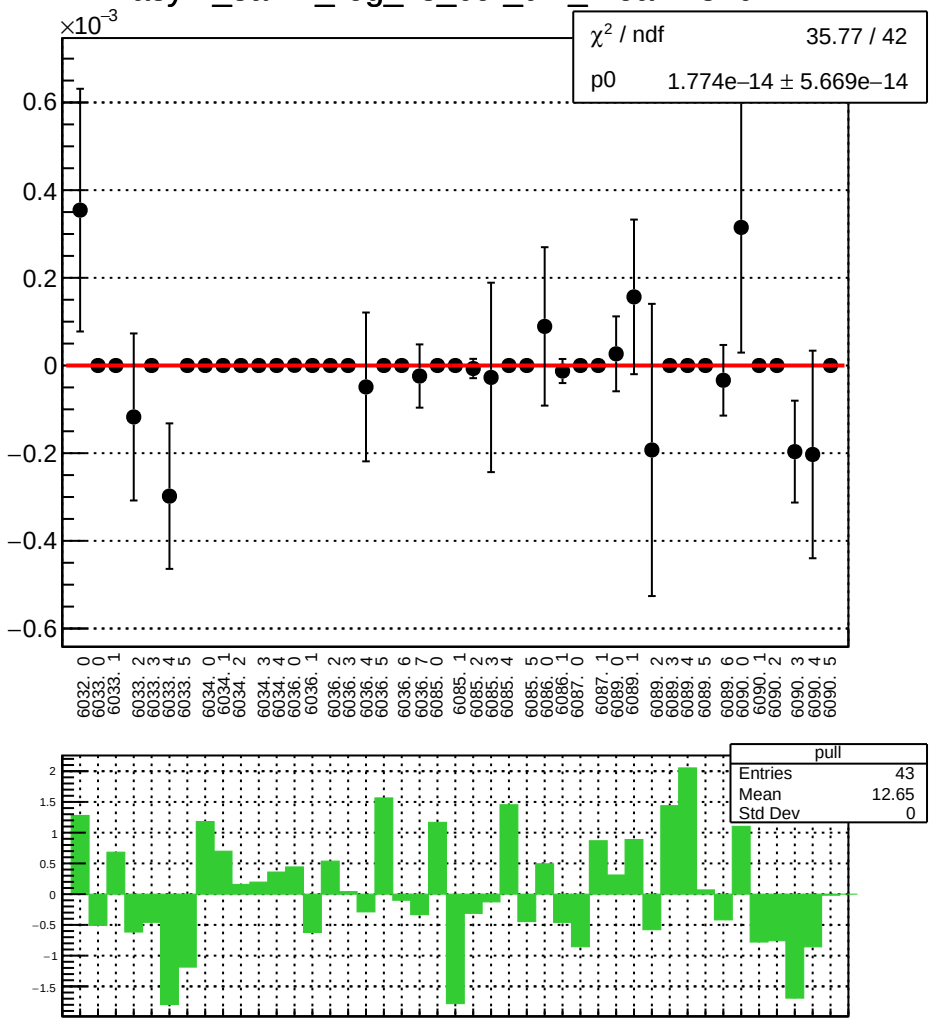

pull1D
Entries 43
Mean 0.04098
Std Dev 0.9541
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

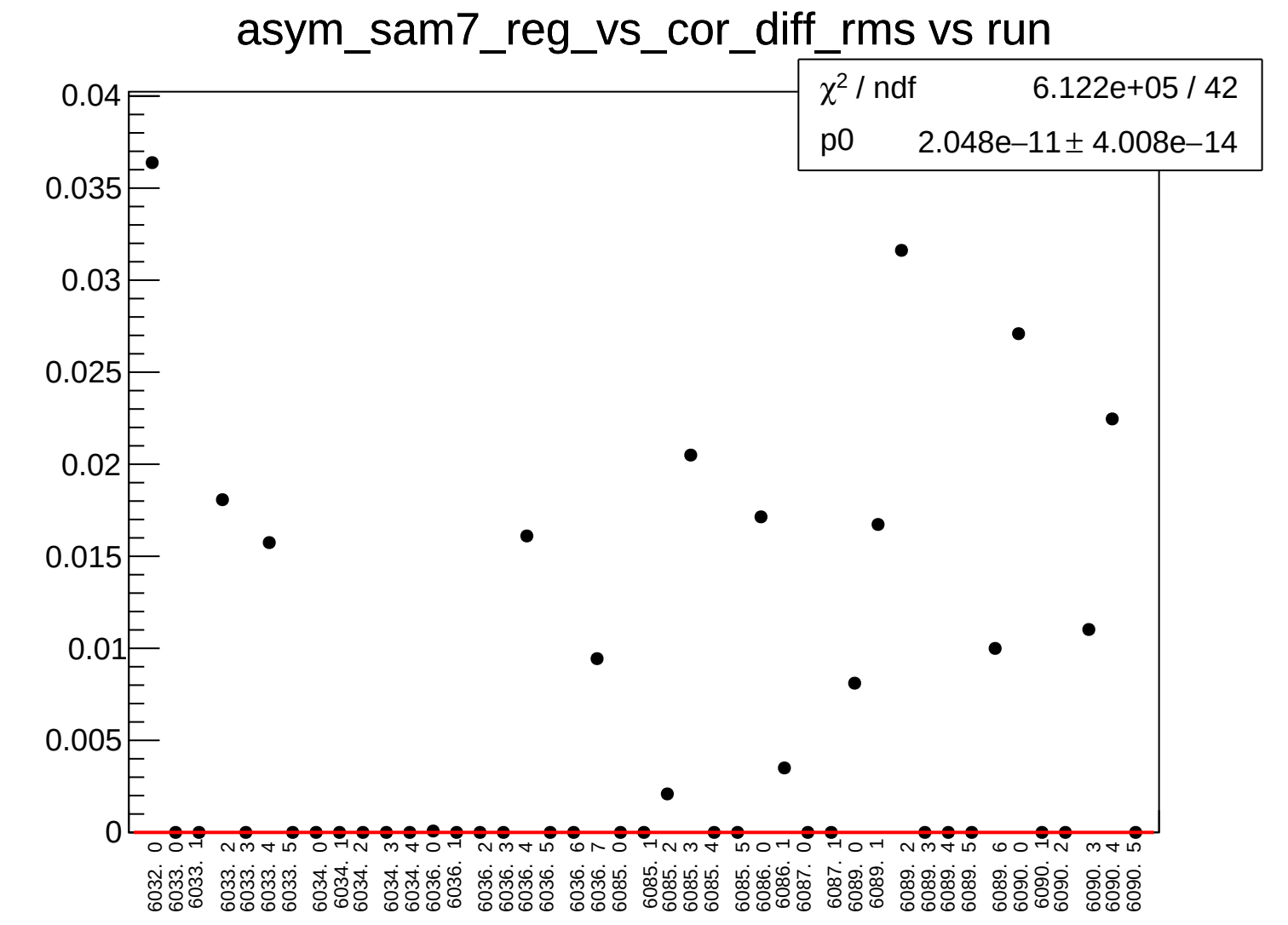

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 5.546e+04 / 42
p0 423 ± 0.4678
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

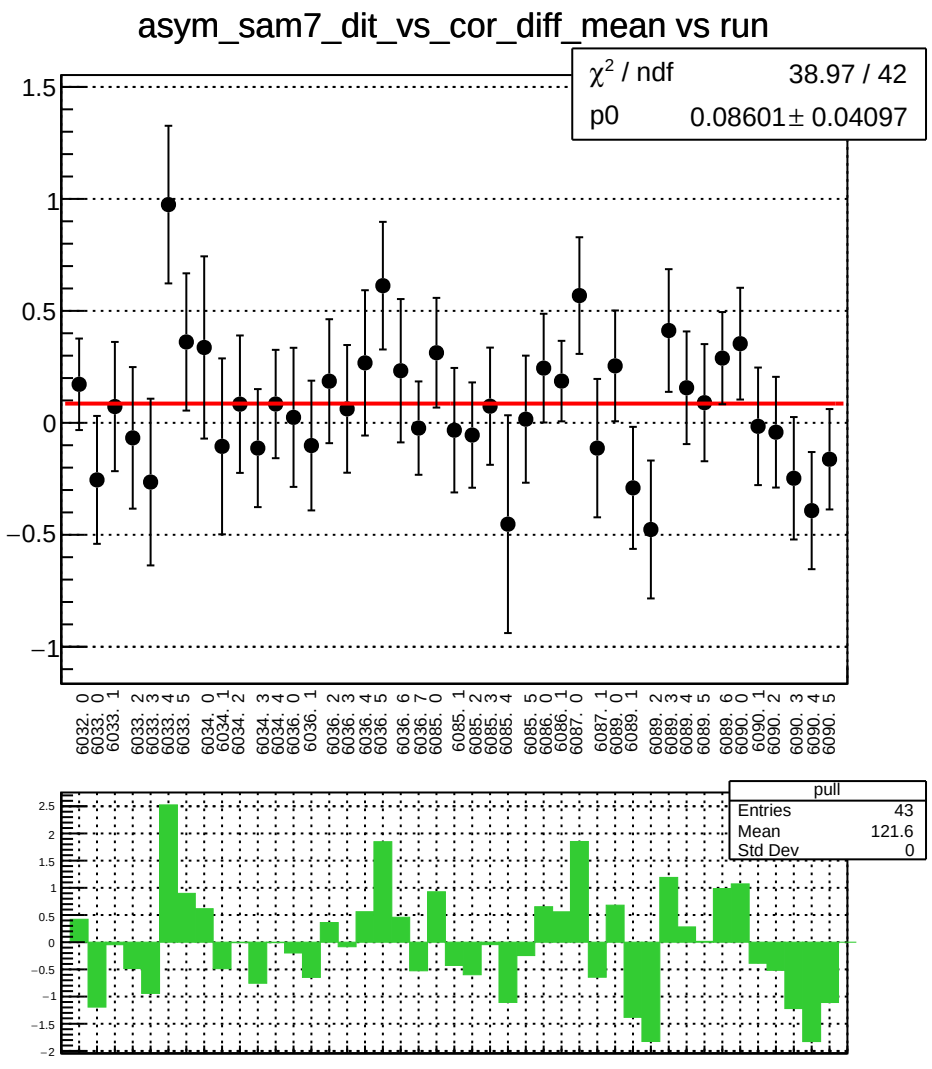

asym_sam7_mean vs run
χ² / ndf 39.43 / 42
p0 226.4 ± 679.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.89
Std Dev 22.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

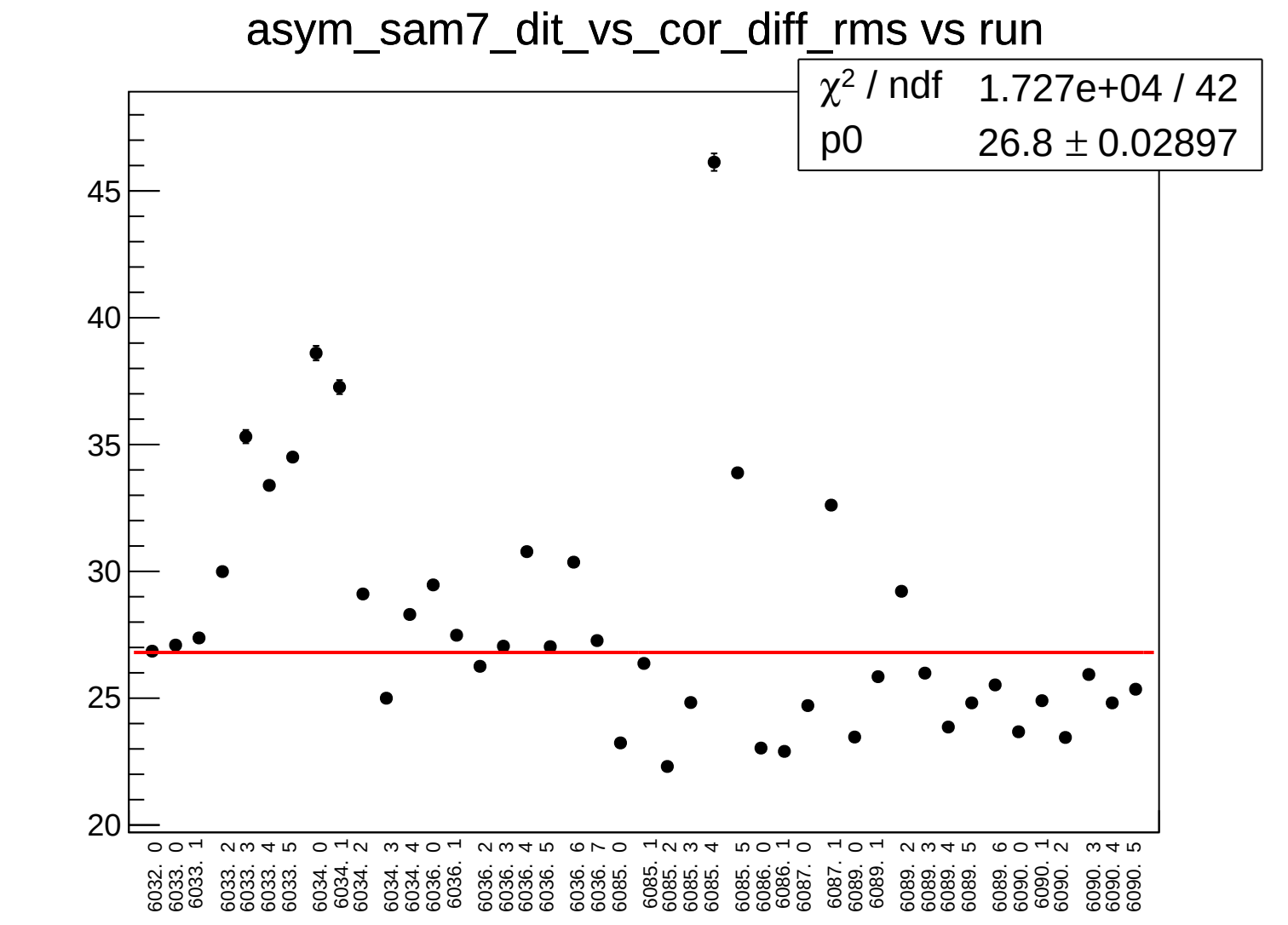

pull1D
Entries 43
Mean −0.04803
Std Dev 0.9563
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

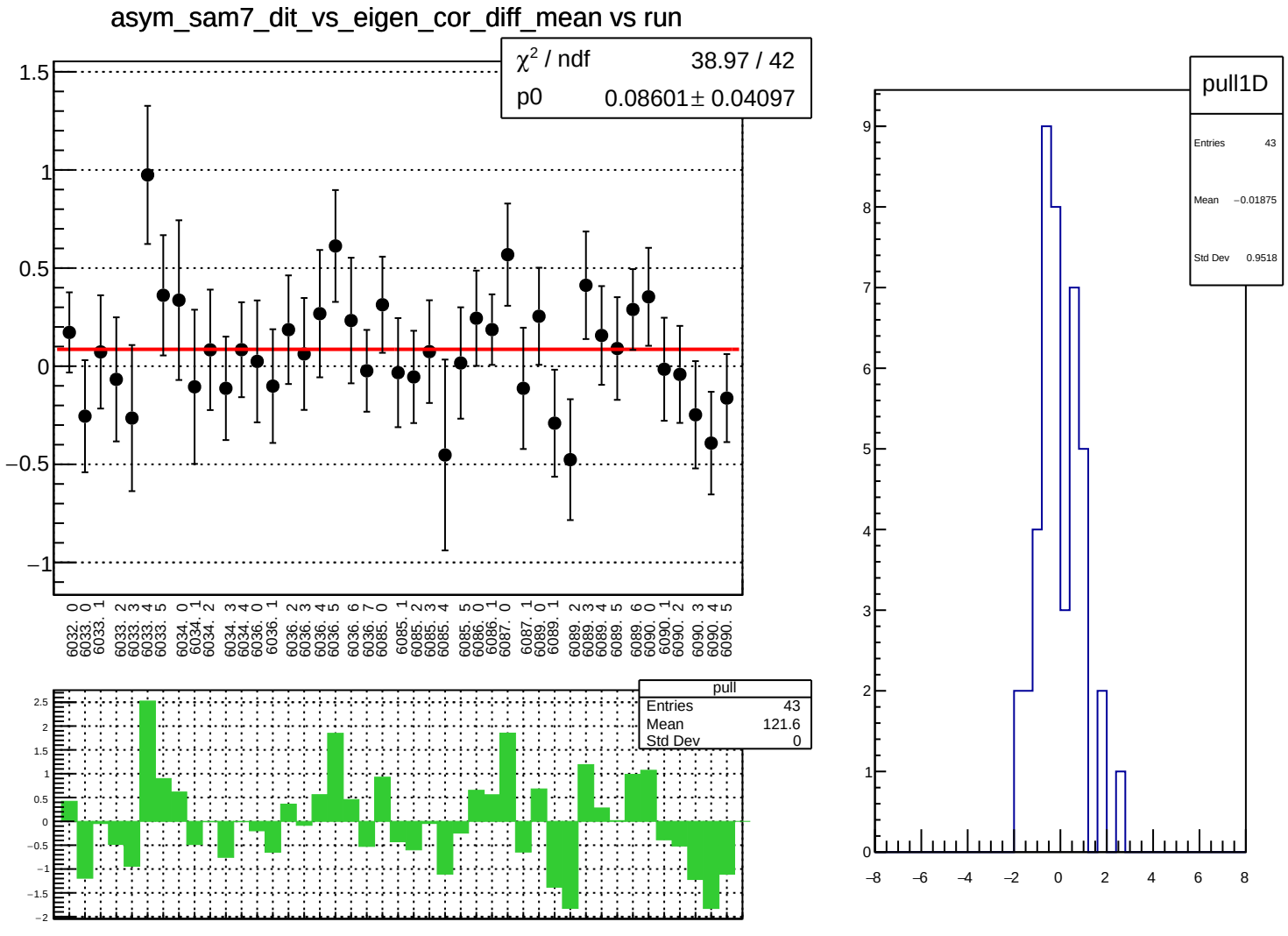

asym_sam7_rms vs run
χ² / ndf 4.876e+04 / 42
p0 436.5 ± 0.4808
800
700
600
500
400
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

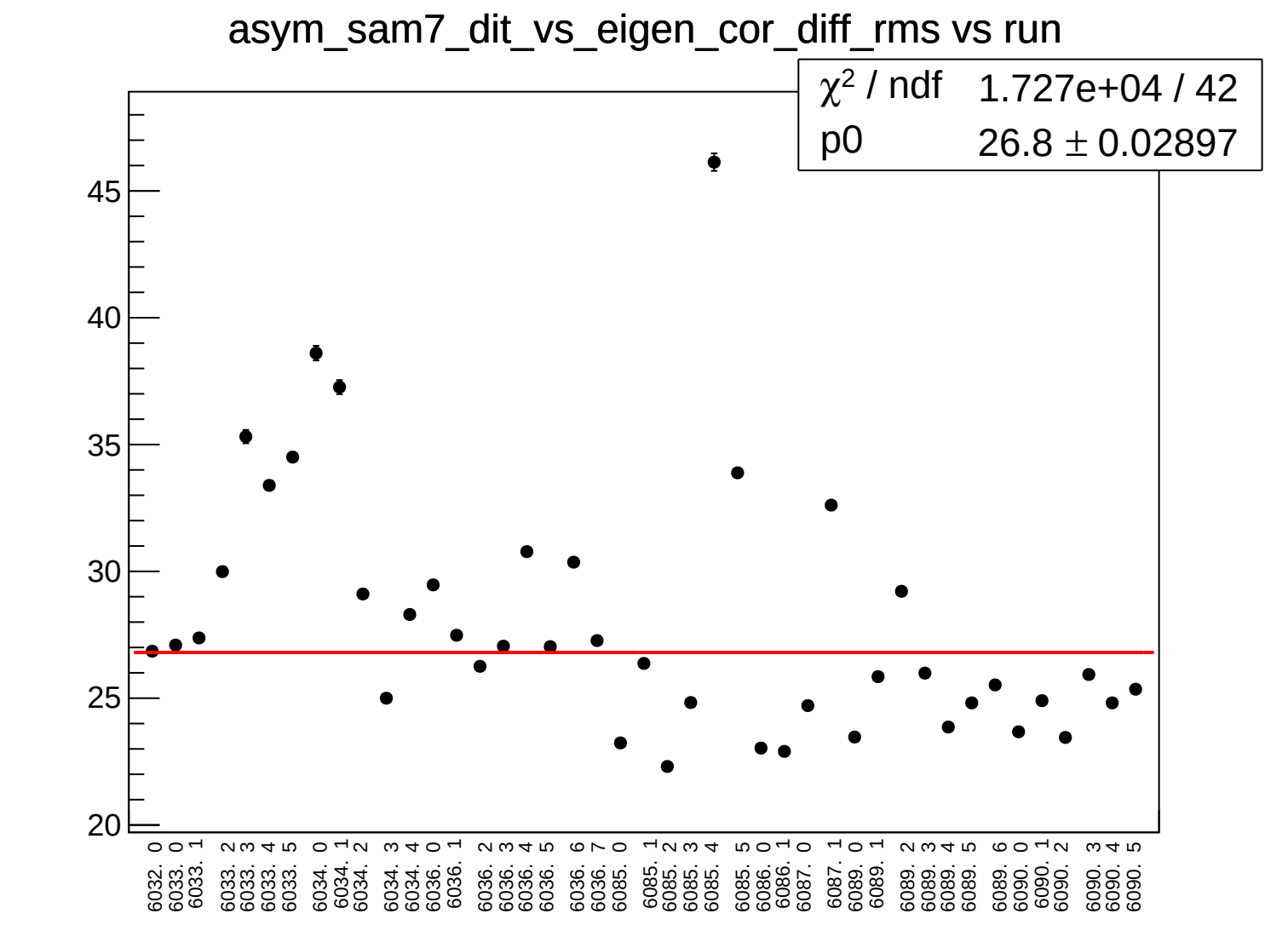

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 35.77 / 42
p0 1.774e−14 ± 5.669e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.04671
Std Dev 0.9108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

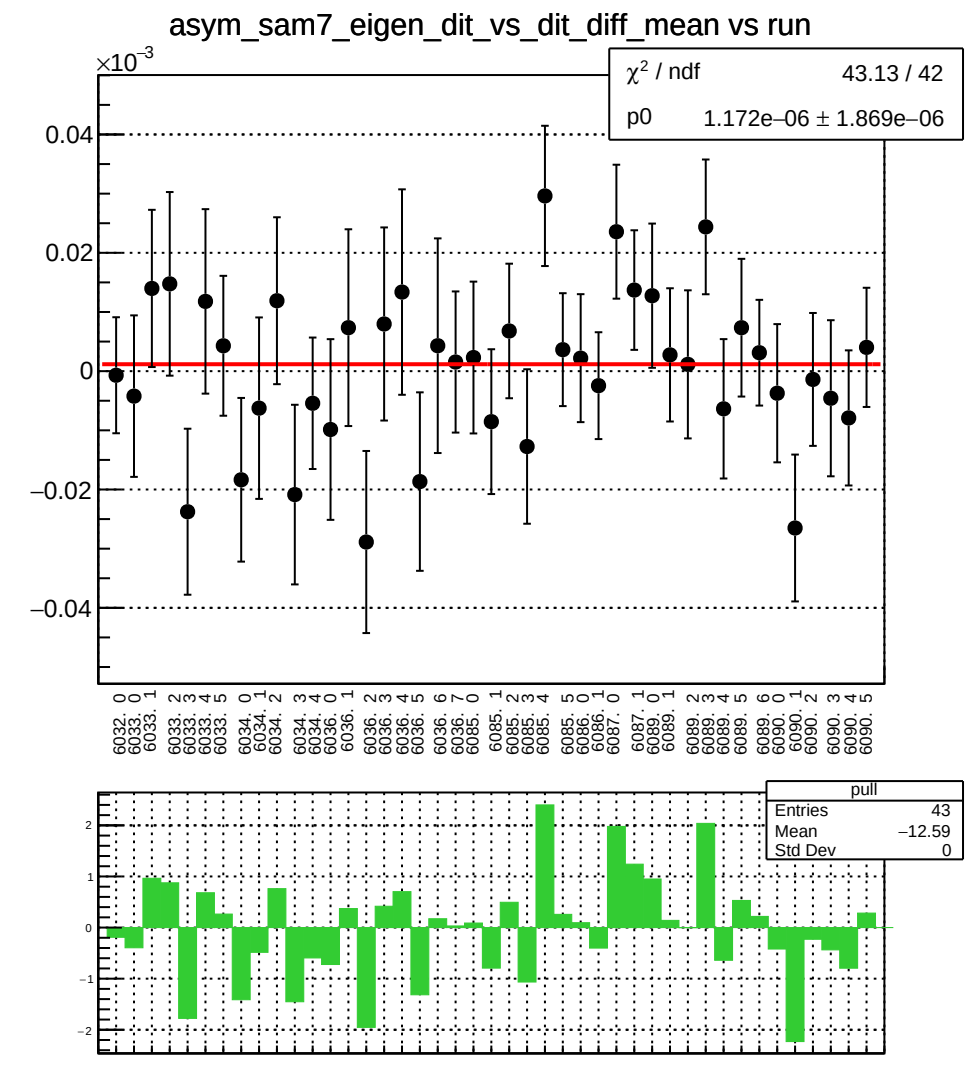

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 6.122e+05 / 42
p0 2.048e−11 ± 4.008e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

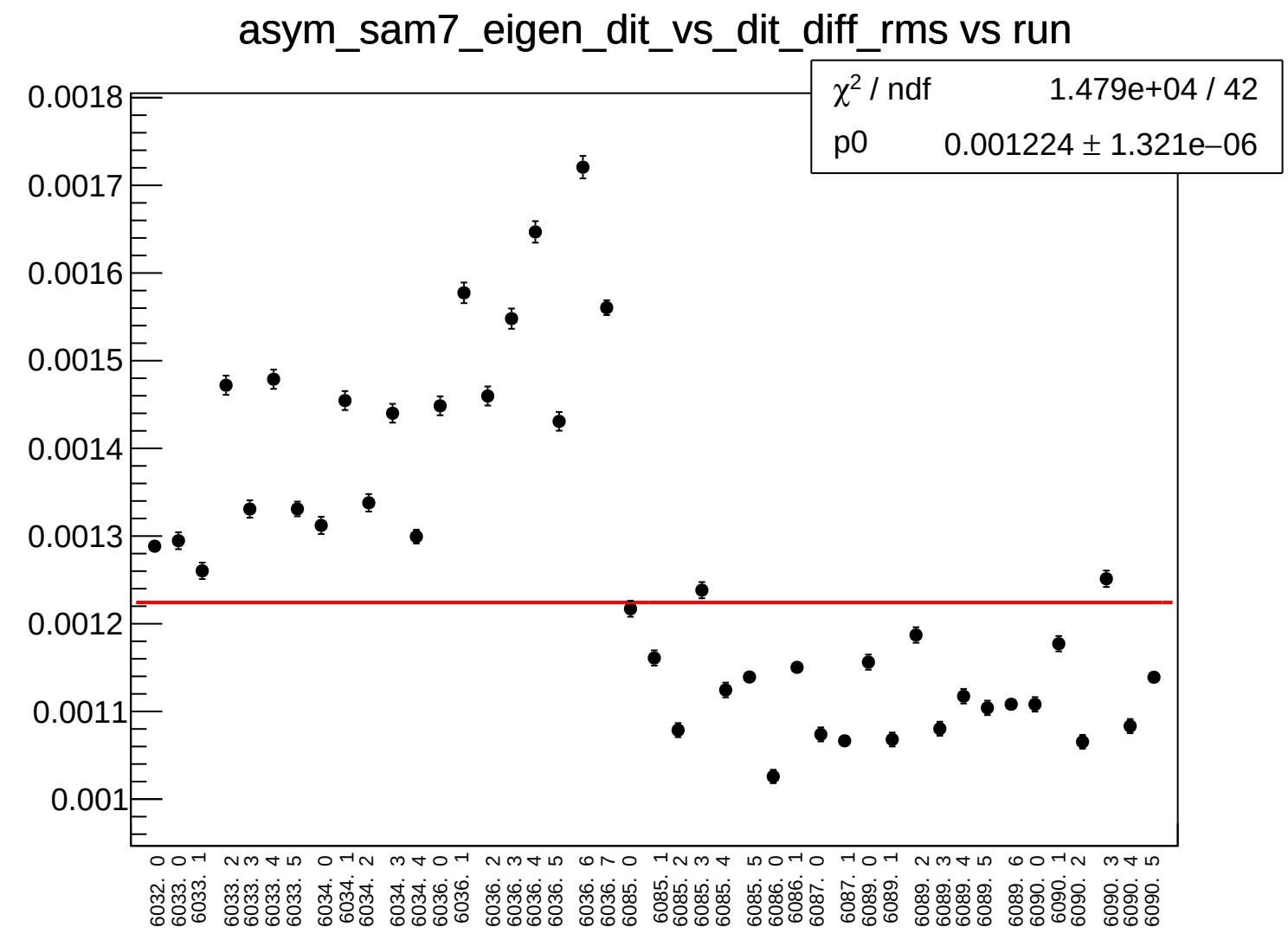

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 38.97 / 42
p0 0.08601 ± 0.04097
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 121.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01875
Std Dev 0.9518
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

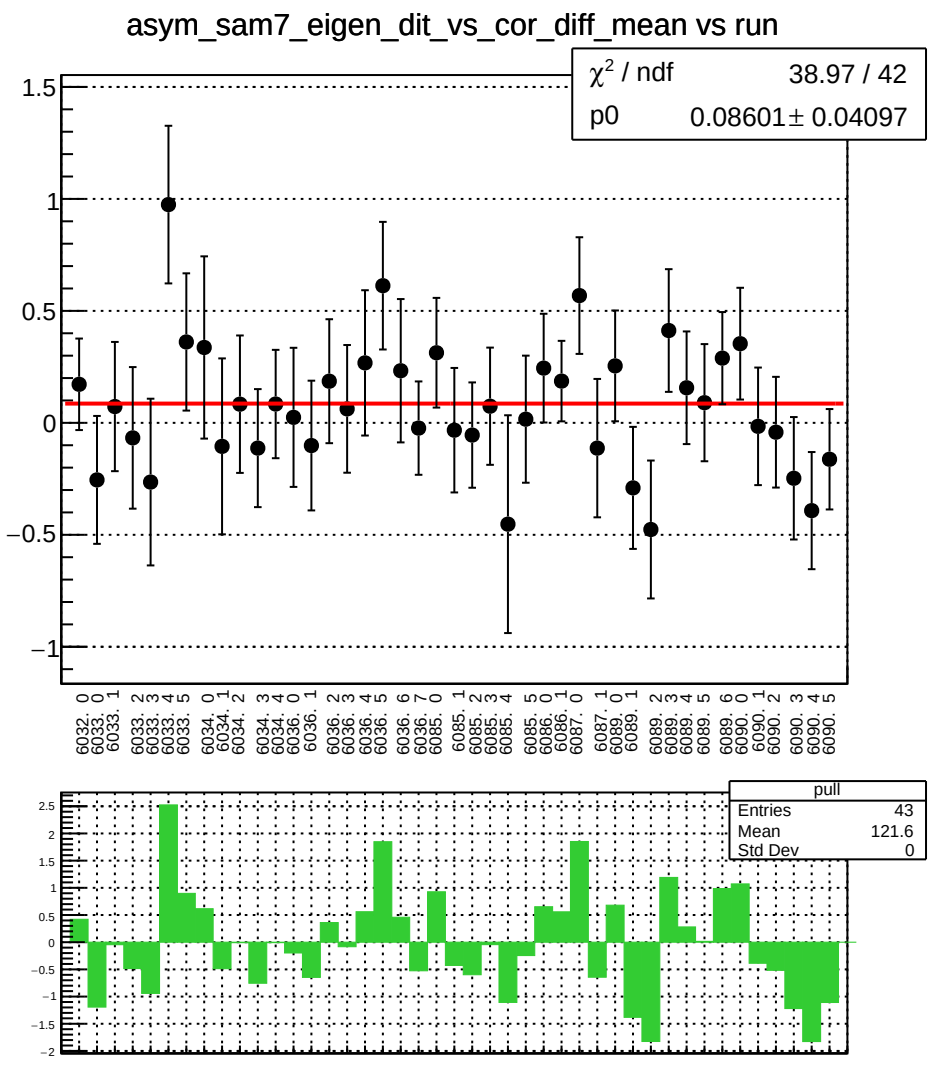

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 42
p0 26.8 ± 0.02897
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

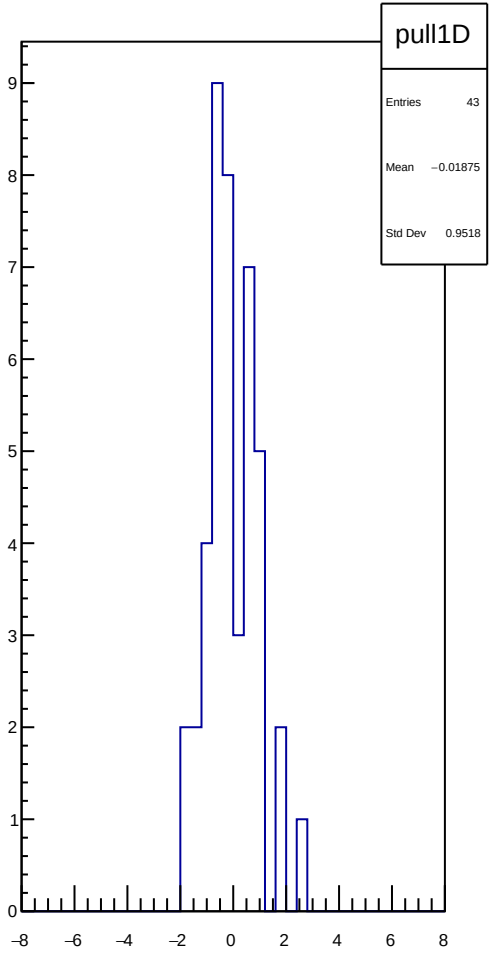

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.97 / 42
p0 0.08601 ± 0.04097
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 121.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01875
Std Dev 0.9518
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

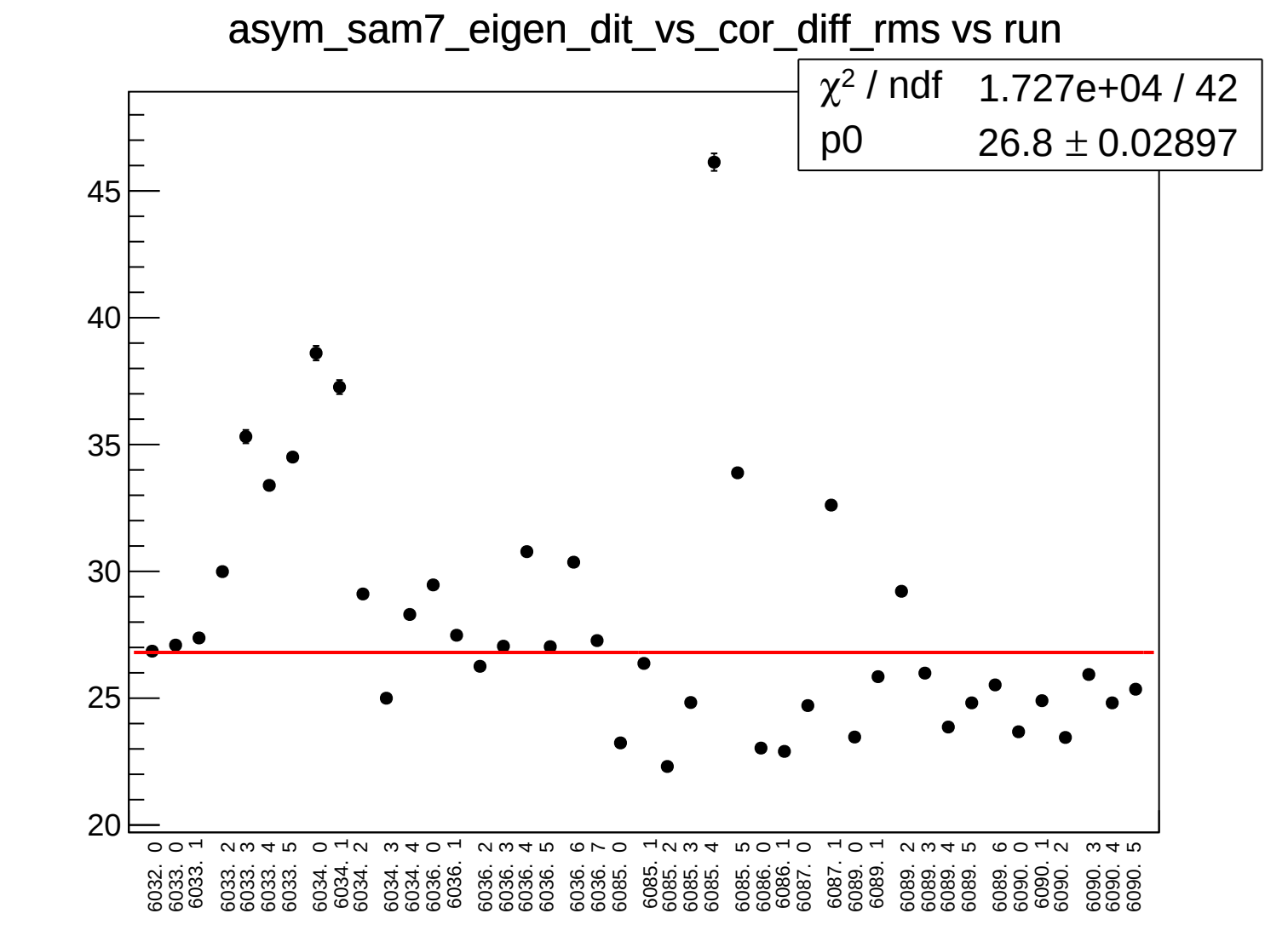

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 42
p0 26.8 ± 0.02897
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

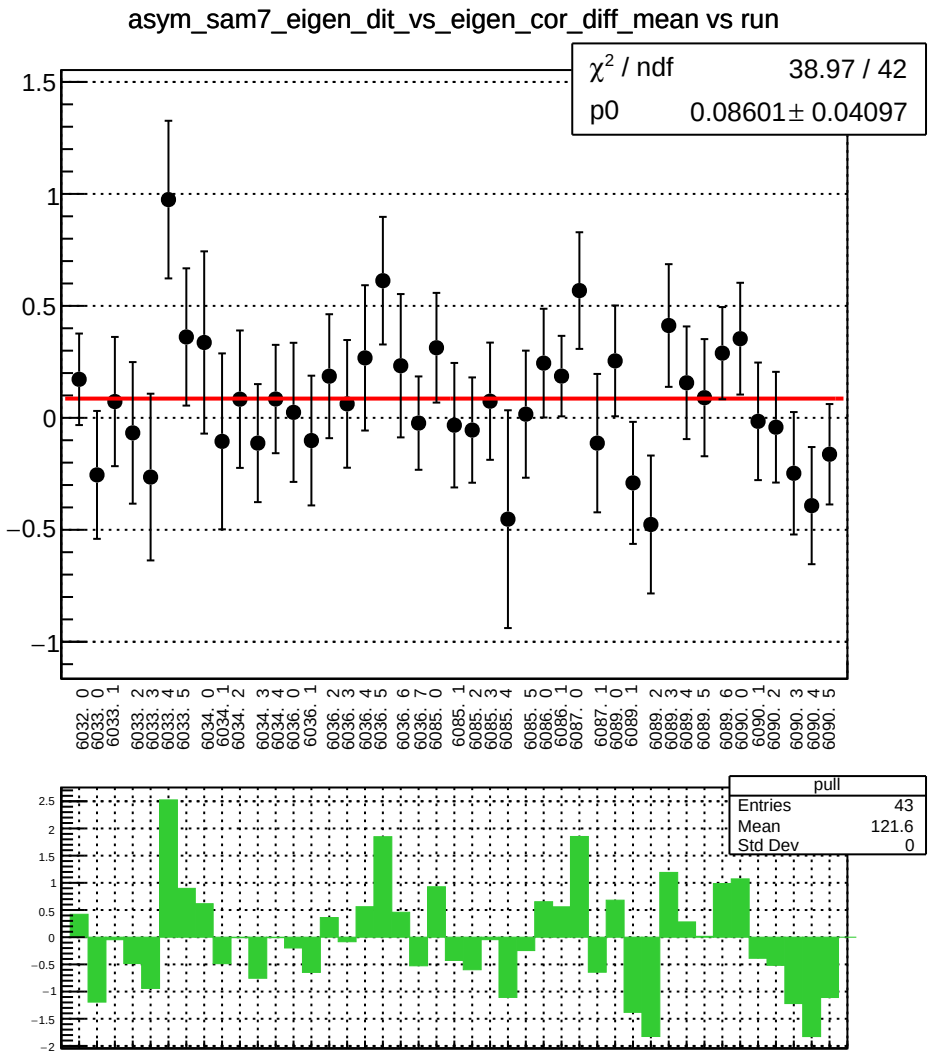

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.13 / 42
p0 1.172e−06 ± 1.869e−06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −12.59
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03138
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

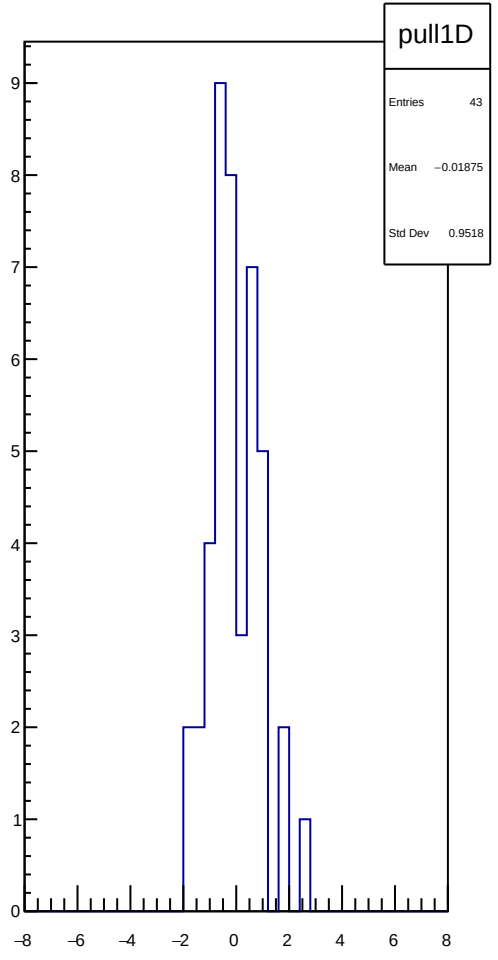

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.479e+04 / 42
p0 0.001224 ± 1.321e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

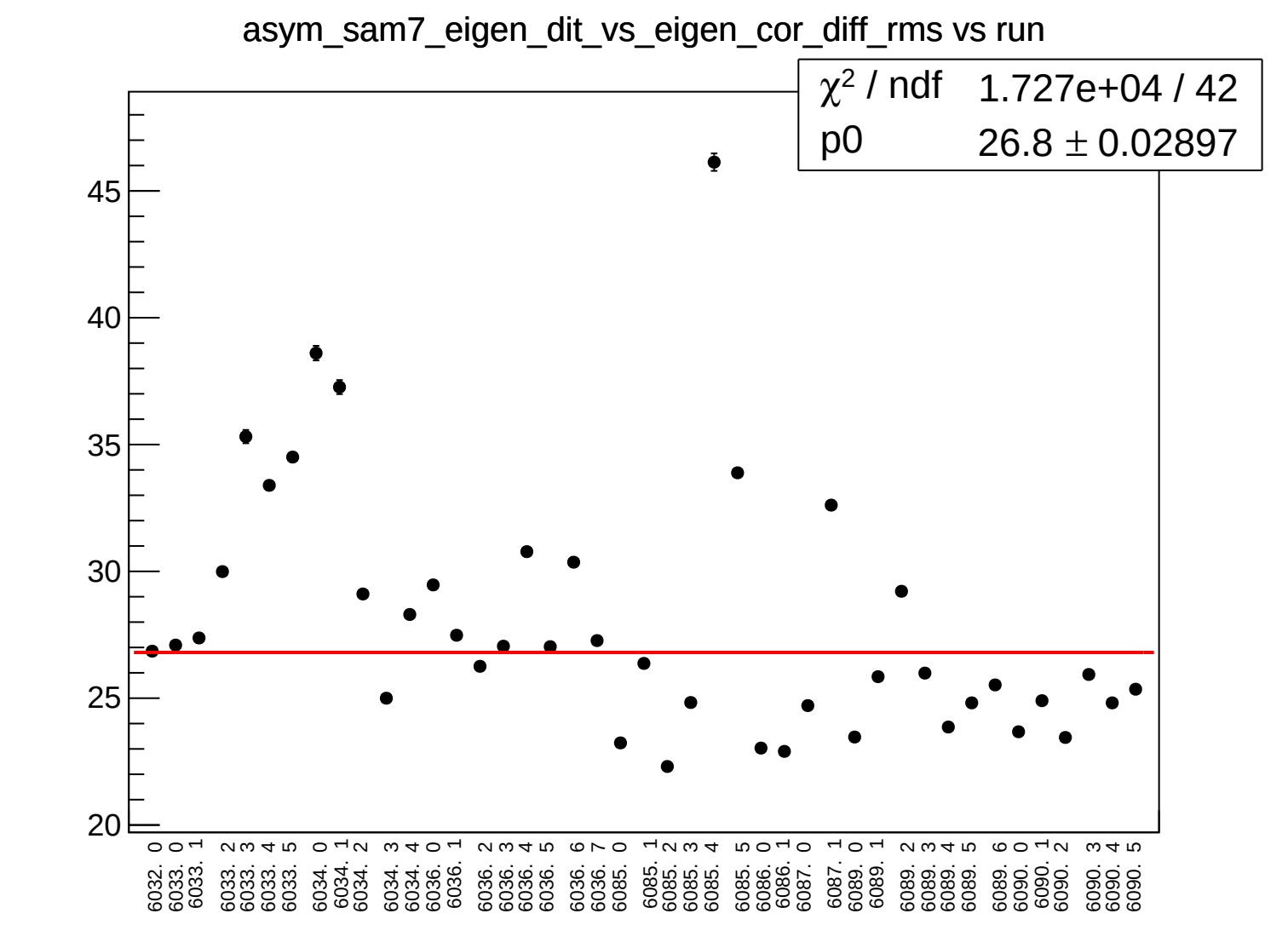

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.97 / 42
p0 0.08601 ± 0.04097
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 121.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

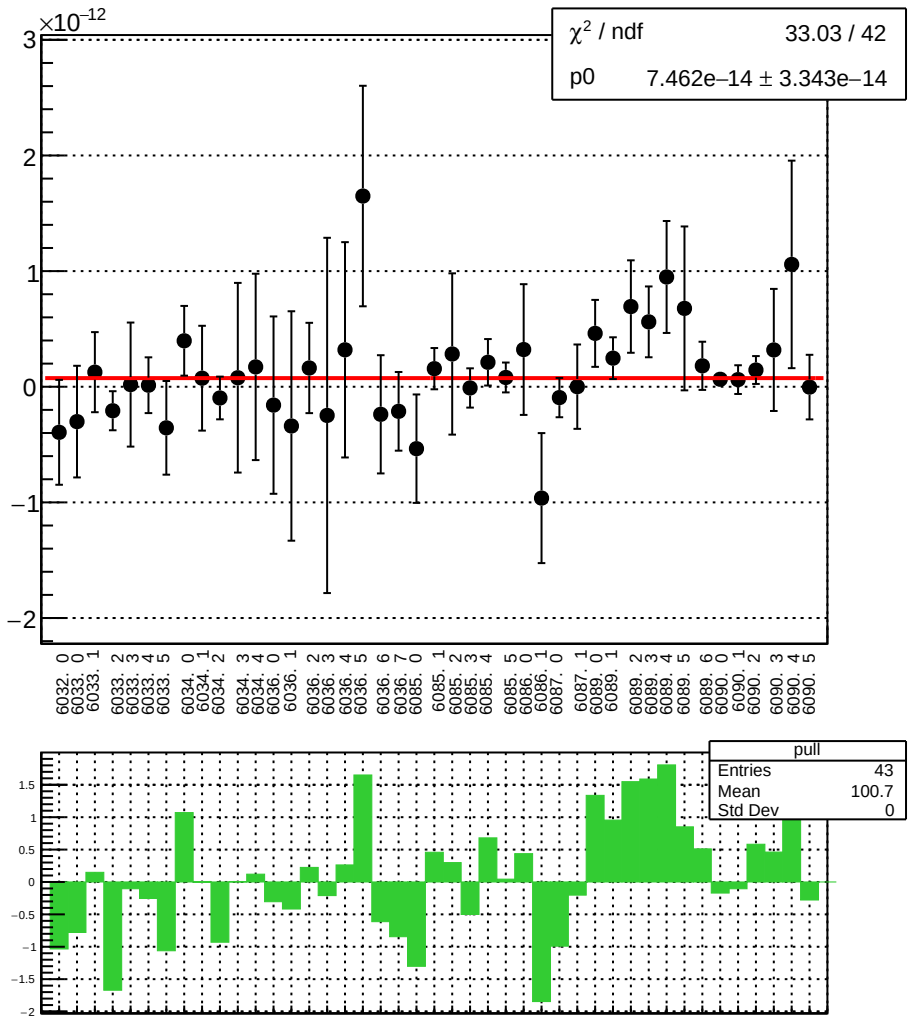

pull1D
Entries 43
Mean −0.01875
Std Dev 0.9518
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

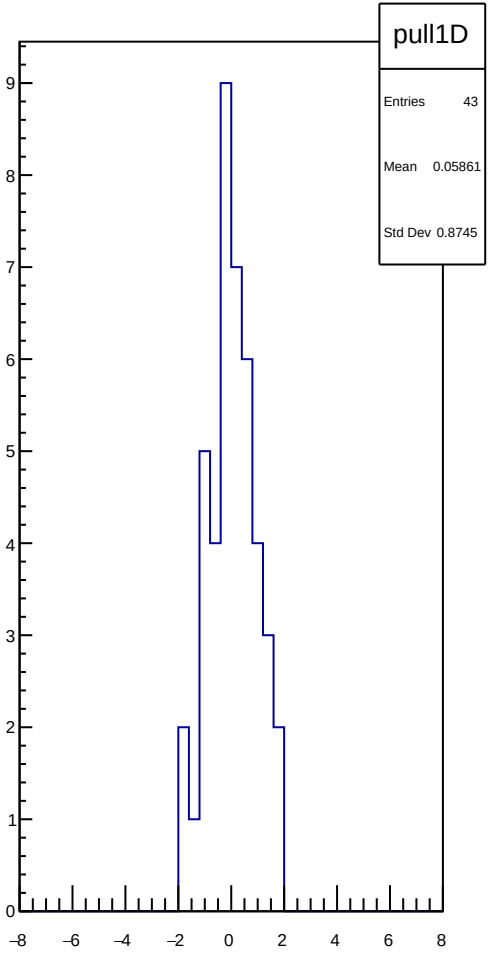

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 42
p0 26.8 ± 0.02897
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

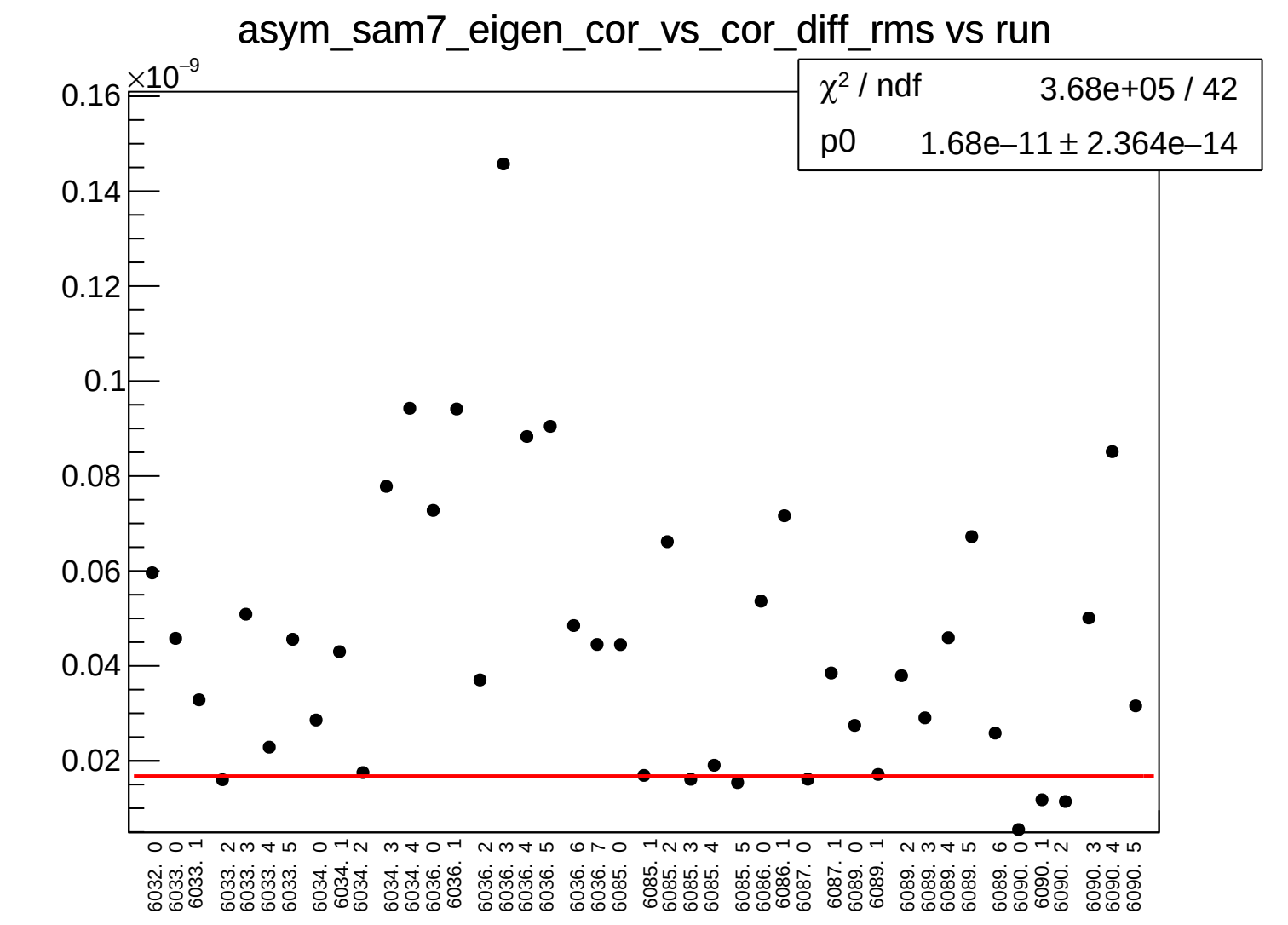

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.97 / 42
p0 0.08601 ± 0.04097
pull
Entries 43
Mean 121.6
Std Dev 0

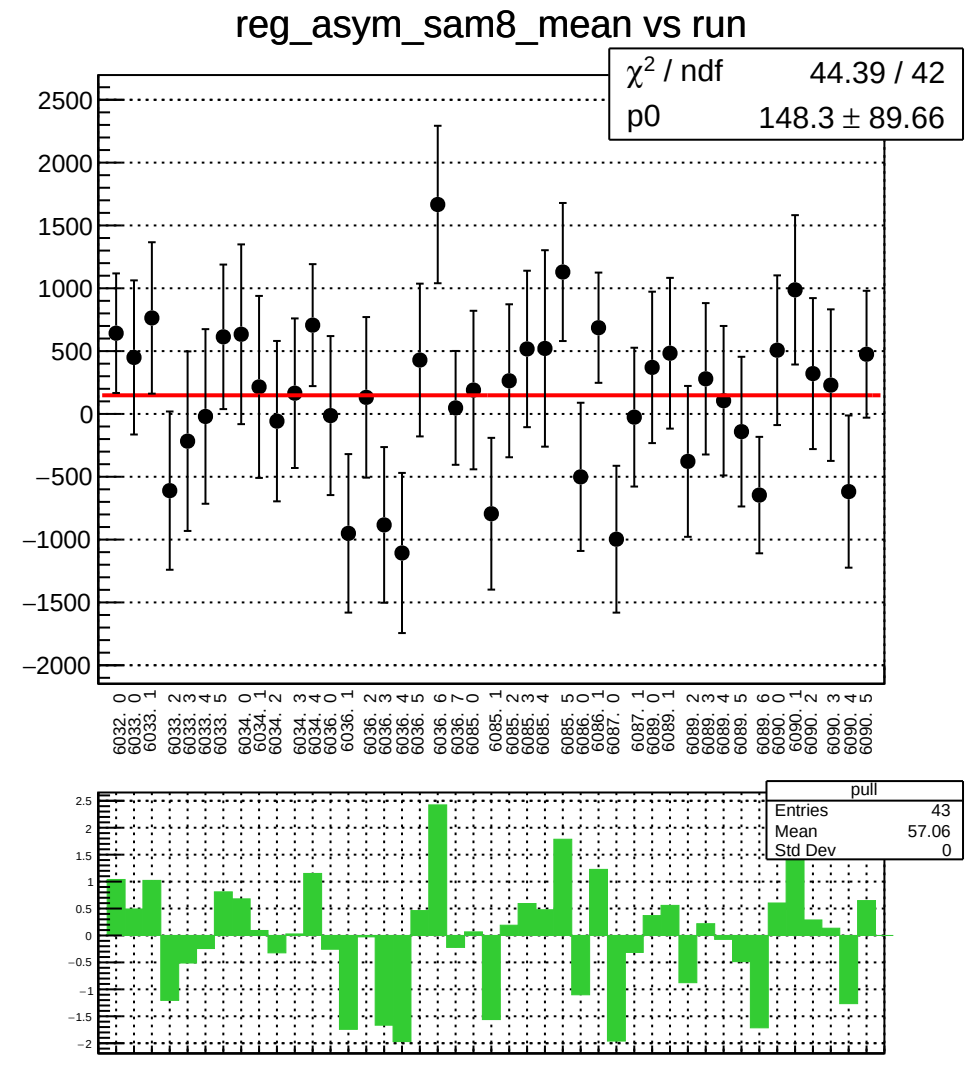

pull1D
Entries 43
Mean −0.01875
Std Dev 0.9518

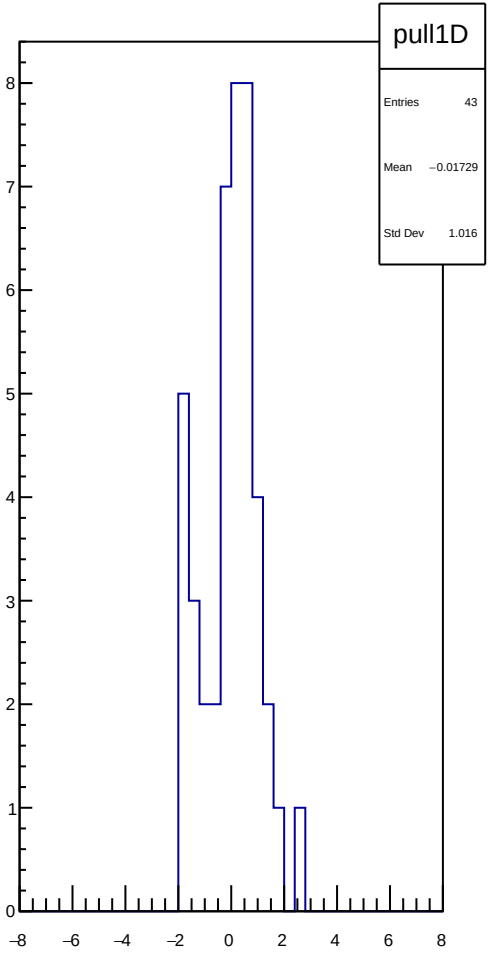

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.727e+04 / 42
p0 26.8 ± 0.02897
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

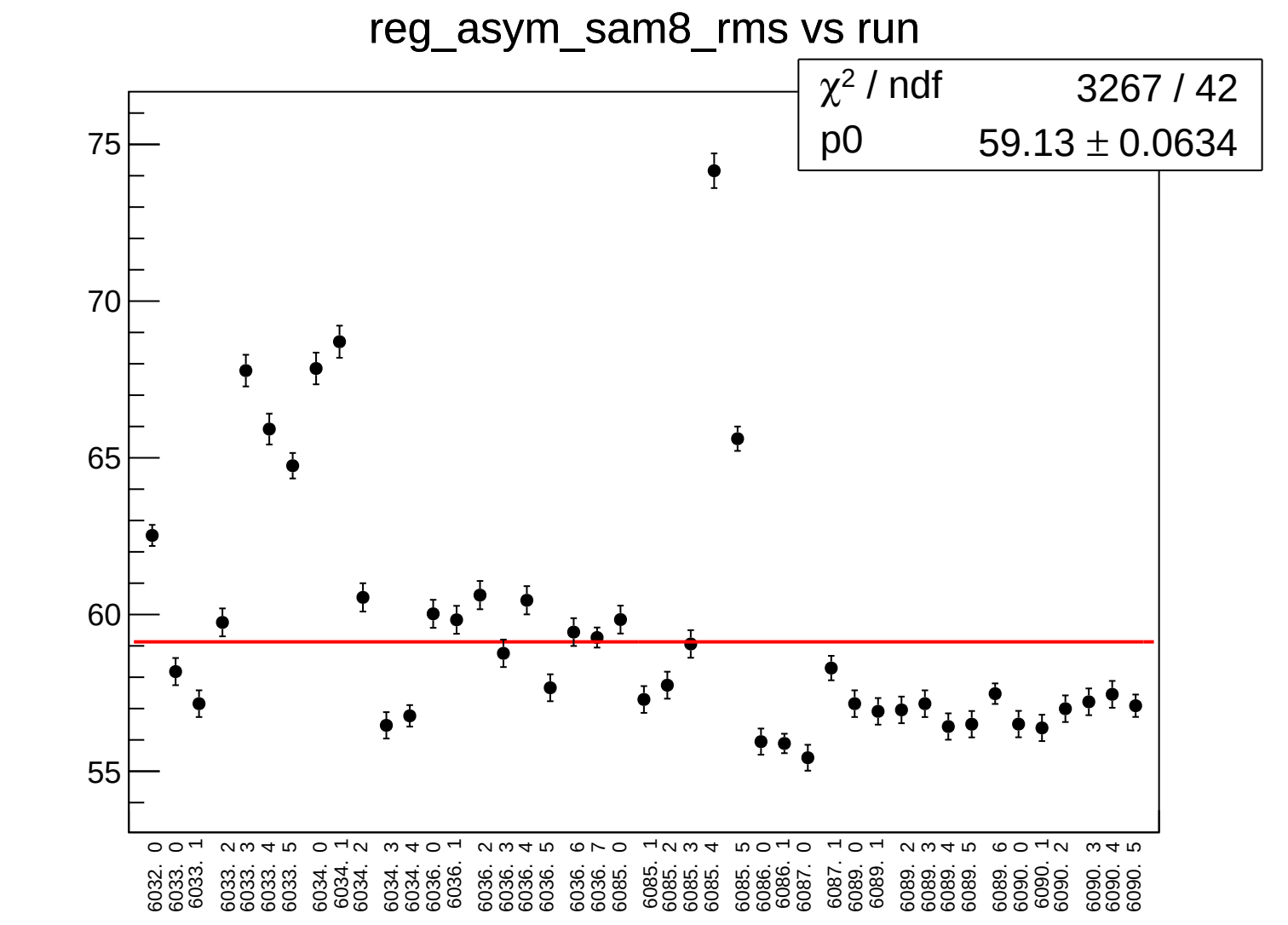

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.03 / 42
p0 7.462e−14 ± 3.343e−14
pull
Entries 43
Mean 100.7
Std Dev 0

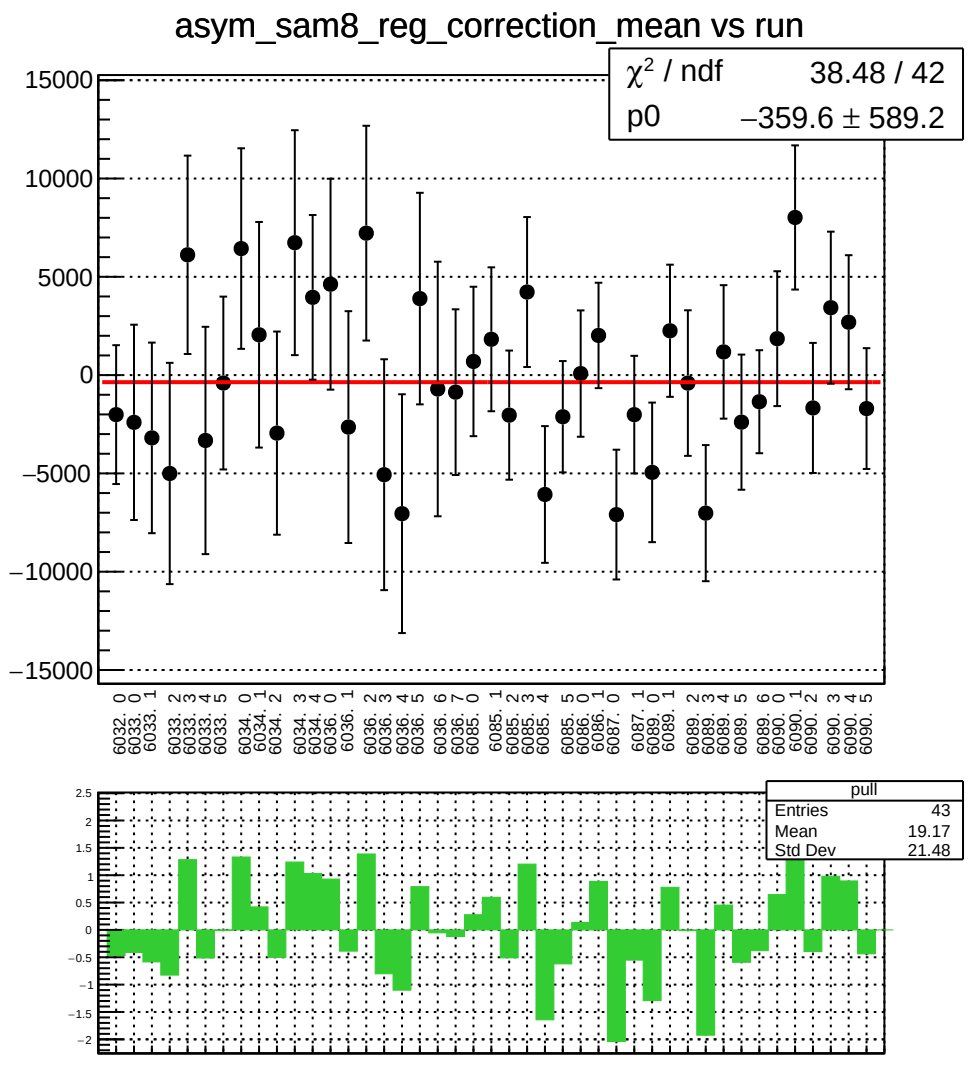

pull1D
Entries 43
Mean 0.05861
Std Dev 0.8745

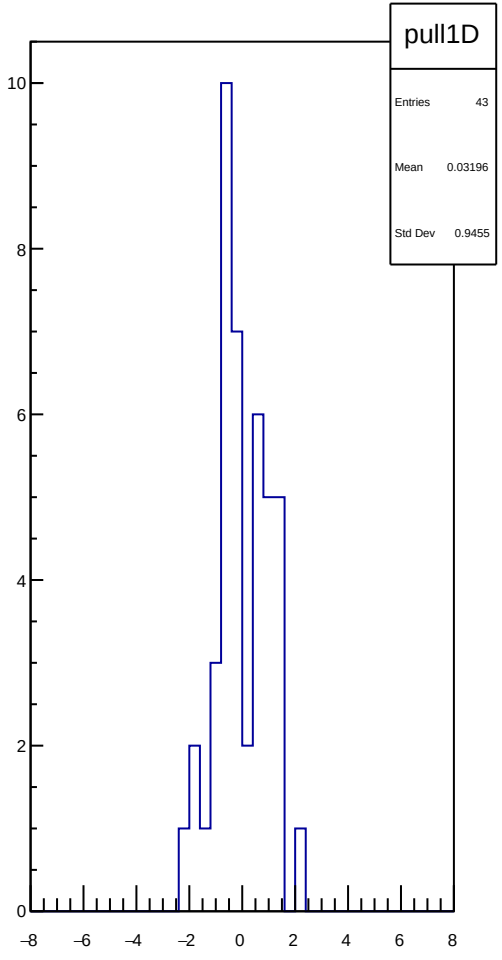

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.68e+05 / 42
p0 1.68e−11 ± 2.364e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

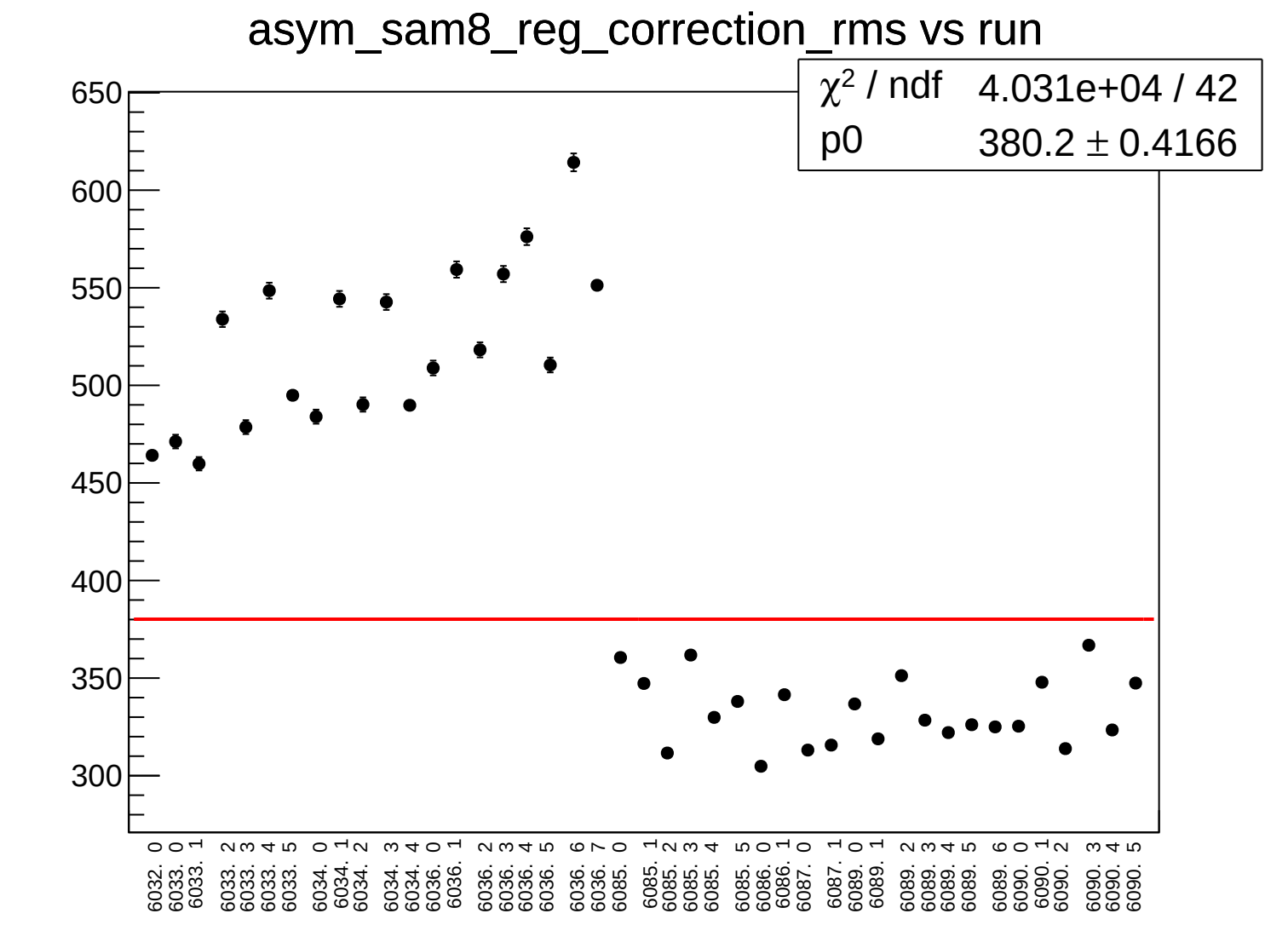

reg_asym_sam8_mean vs run
χ² / ndf 44.39 / 42
p0 148.3 ± 89.66
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

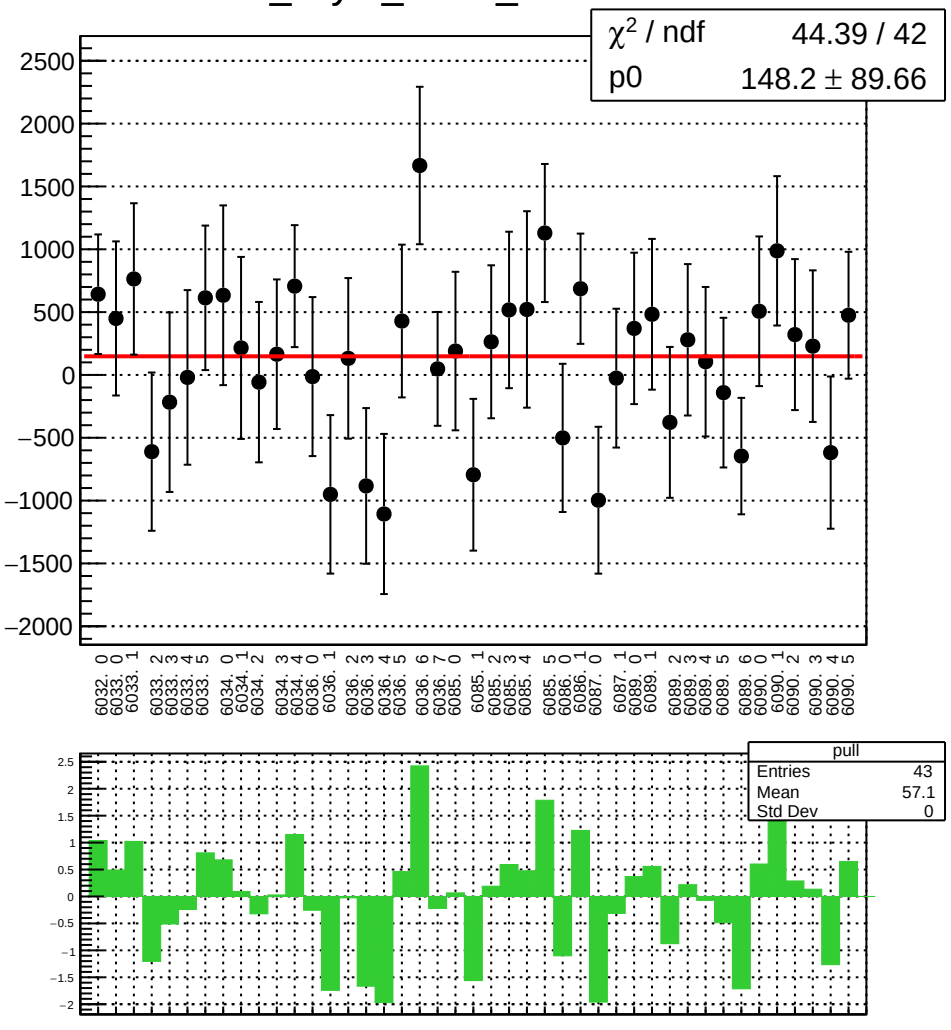

pull1D
Entries 43
Mean −0.01729
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

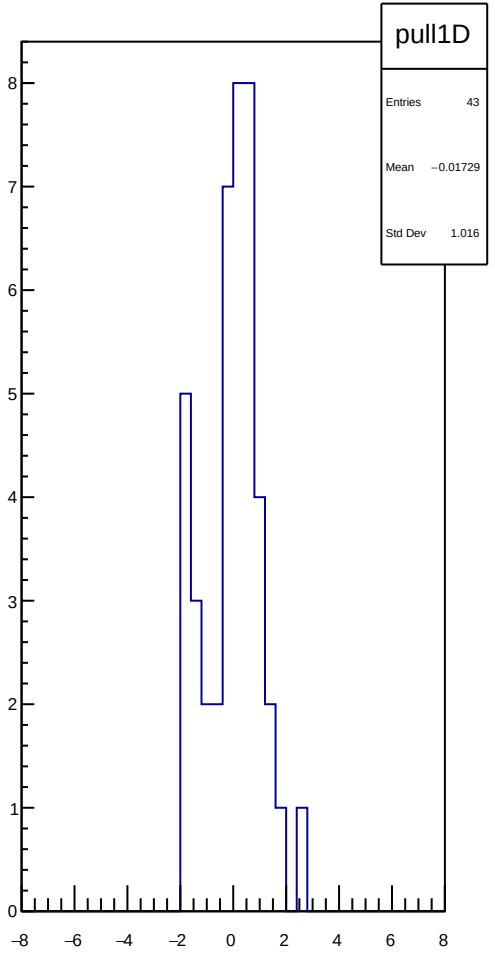

reg_asym_sam8_rms vs run
χ² / ndf 3267 / 42
p0 59.13 ± 0.0634
75
70
65
60
55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

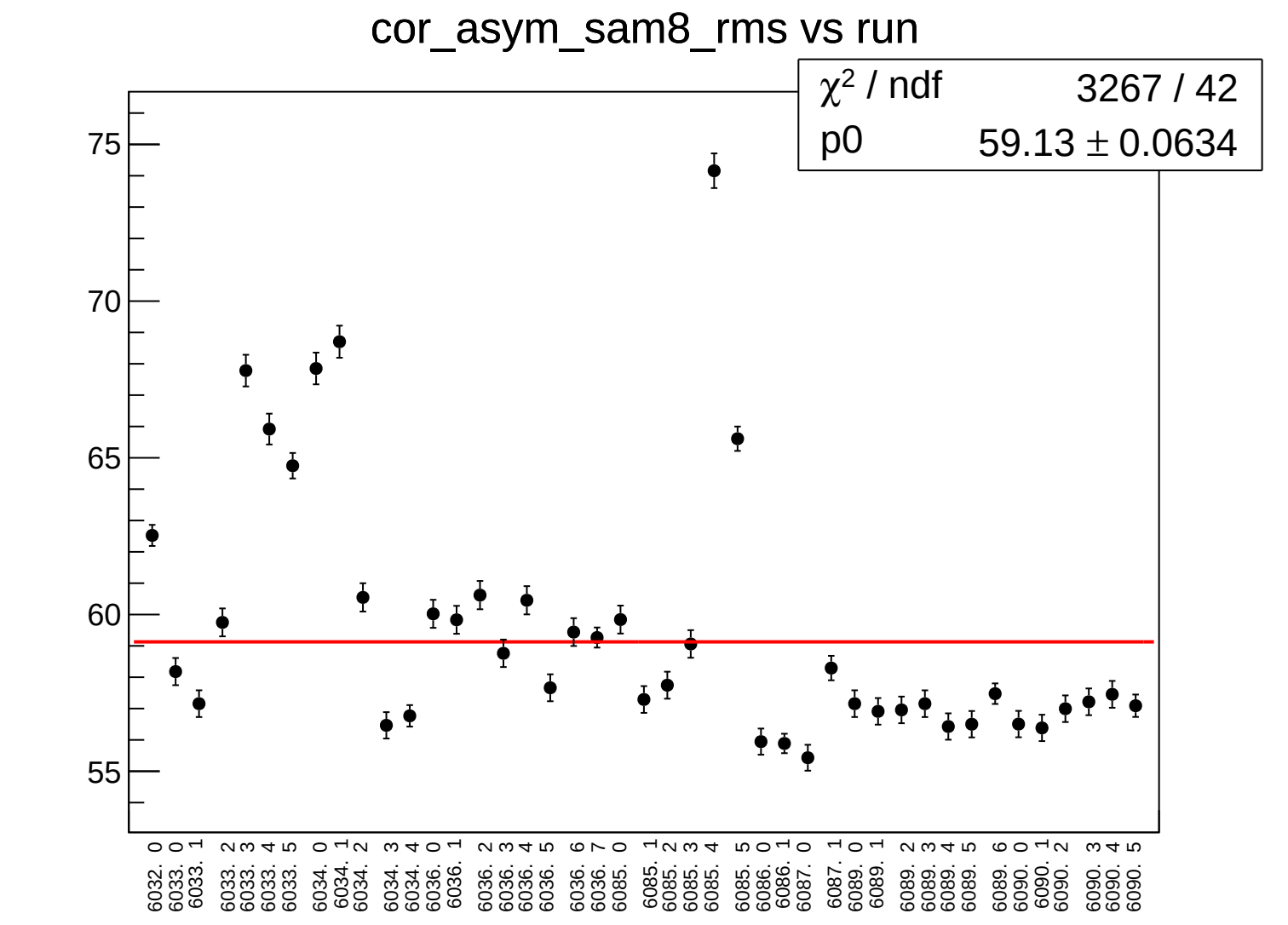

asym_sam8_reg_correction_mean vs run
χ² / ndf 38.48 / 42
p0 −359.6 ± 589.2
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.17
Std Dev 21.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

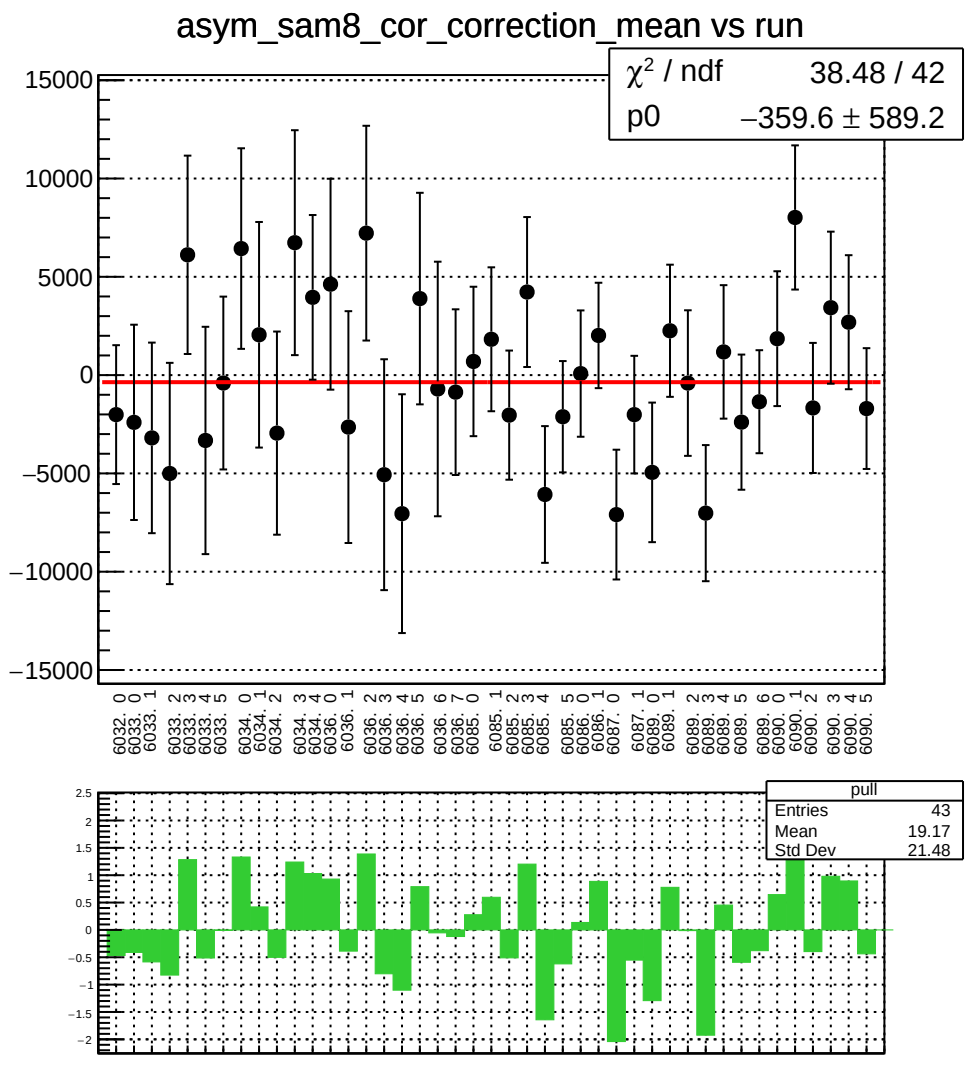

pull1D
Entries 43
Mean 0.03196
Std Dev 0.9455
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

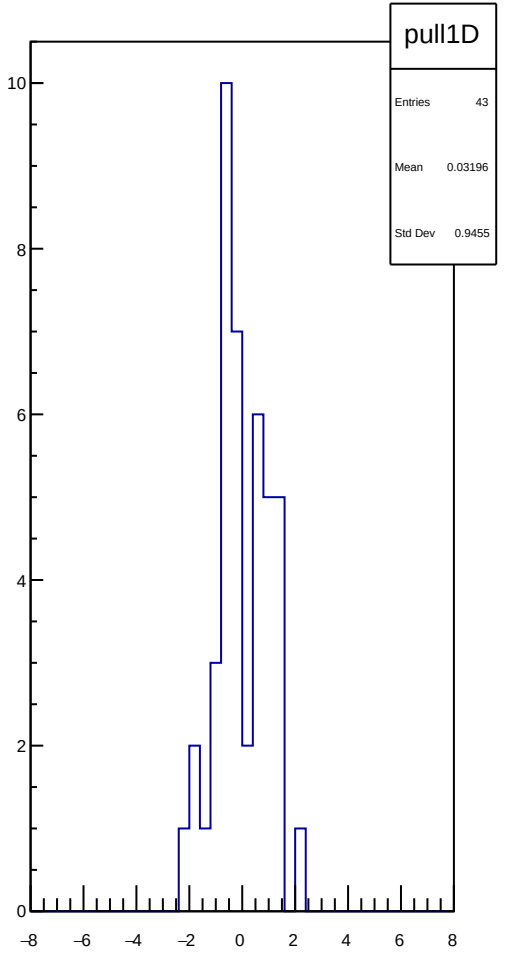

asym_sam8_reg_correction_rms vs run
χ² / ndf 4.031e+04 / 42
p0 380.2 ± 0.4166
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

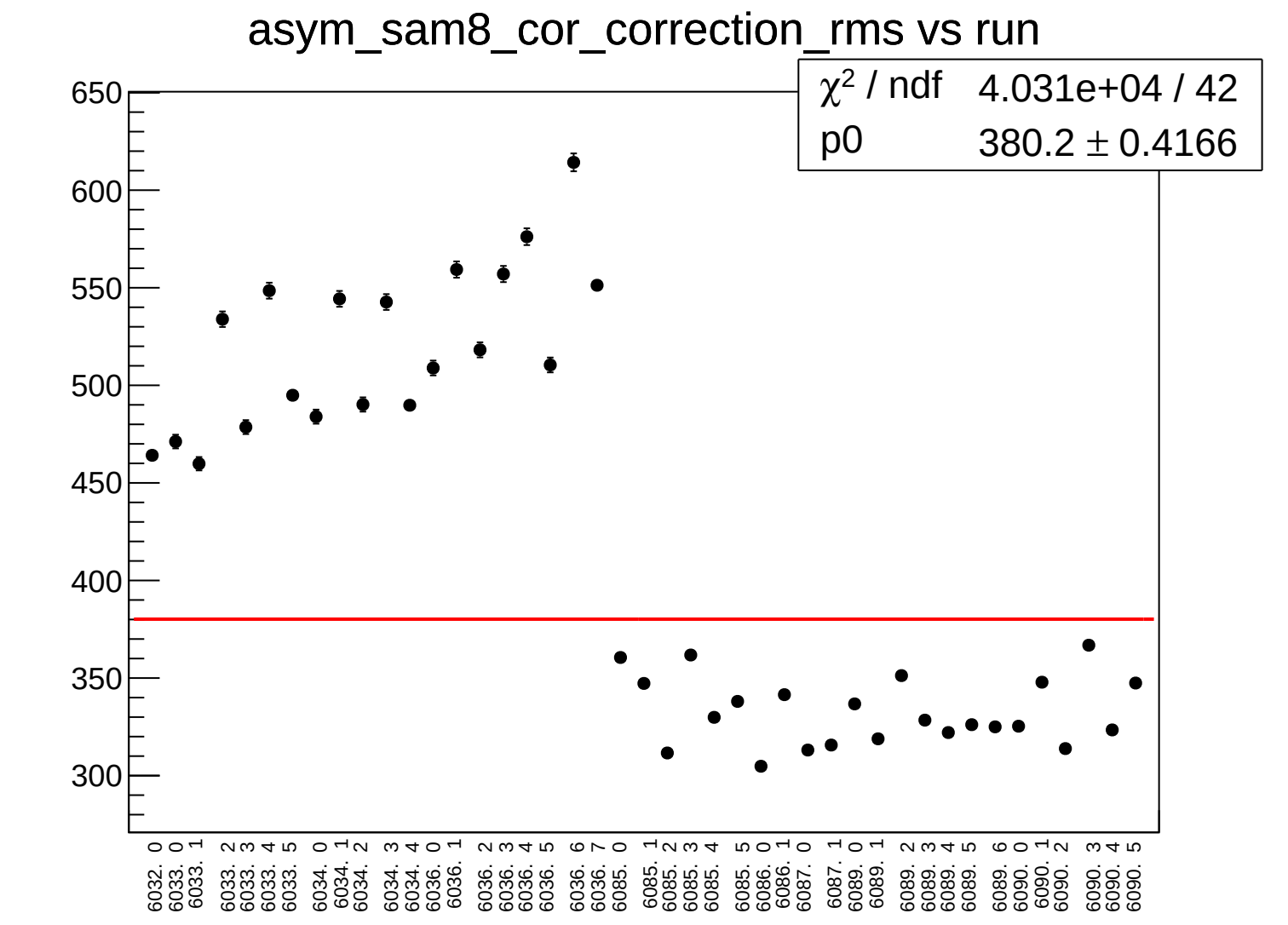

cor_asym_sam8_mean vs run
χ² / ndf 44.39 / 42
p0 148.2 ± 89.66
pull
Entries 43
Mean 57.1
Std Dev 0

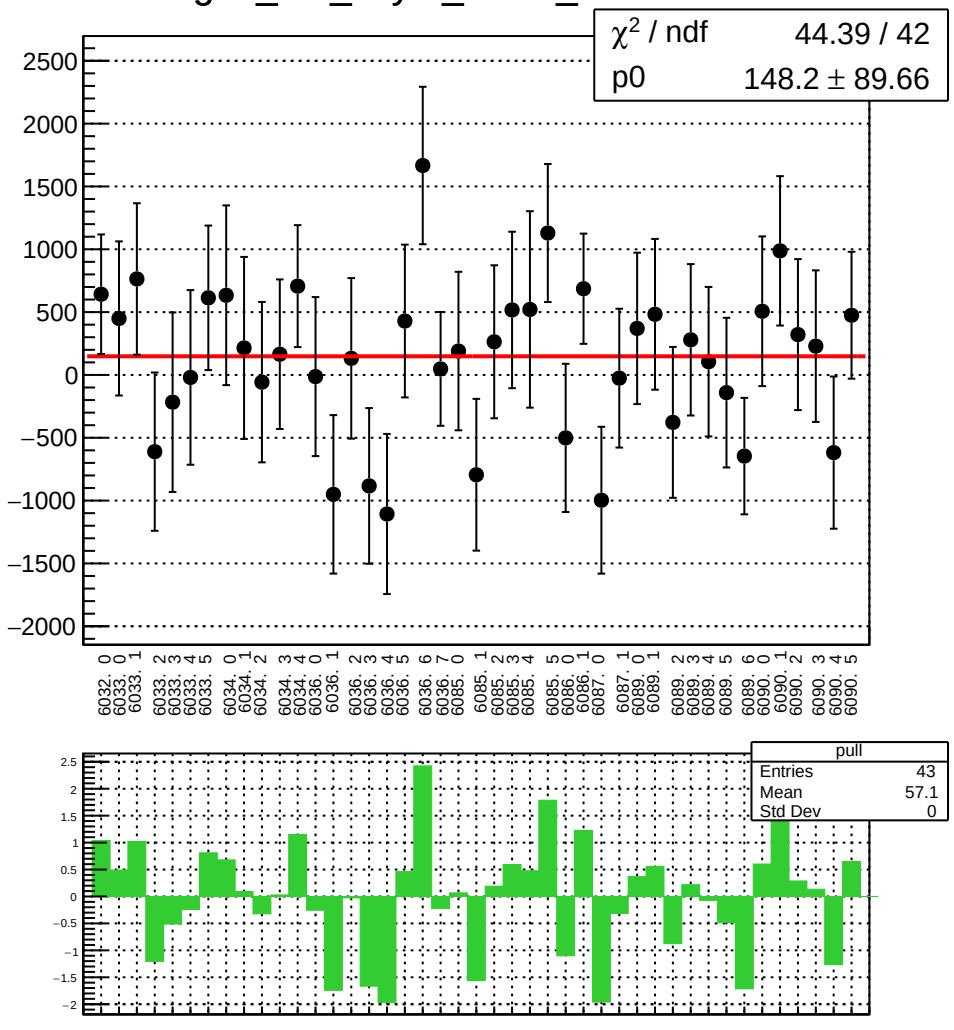

pull1D
Entries 43
Mean −0.01729
Std Dev 1.016

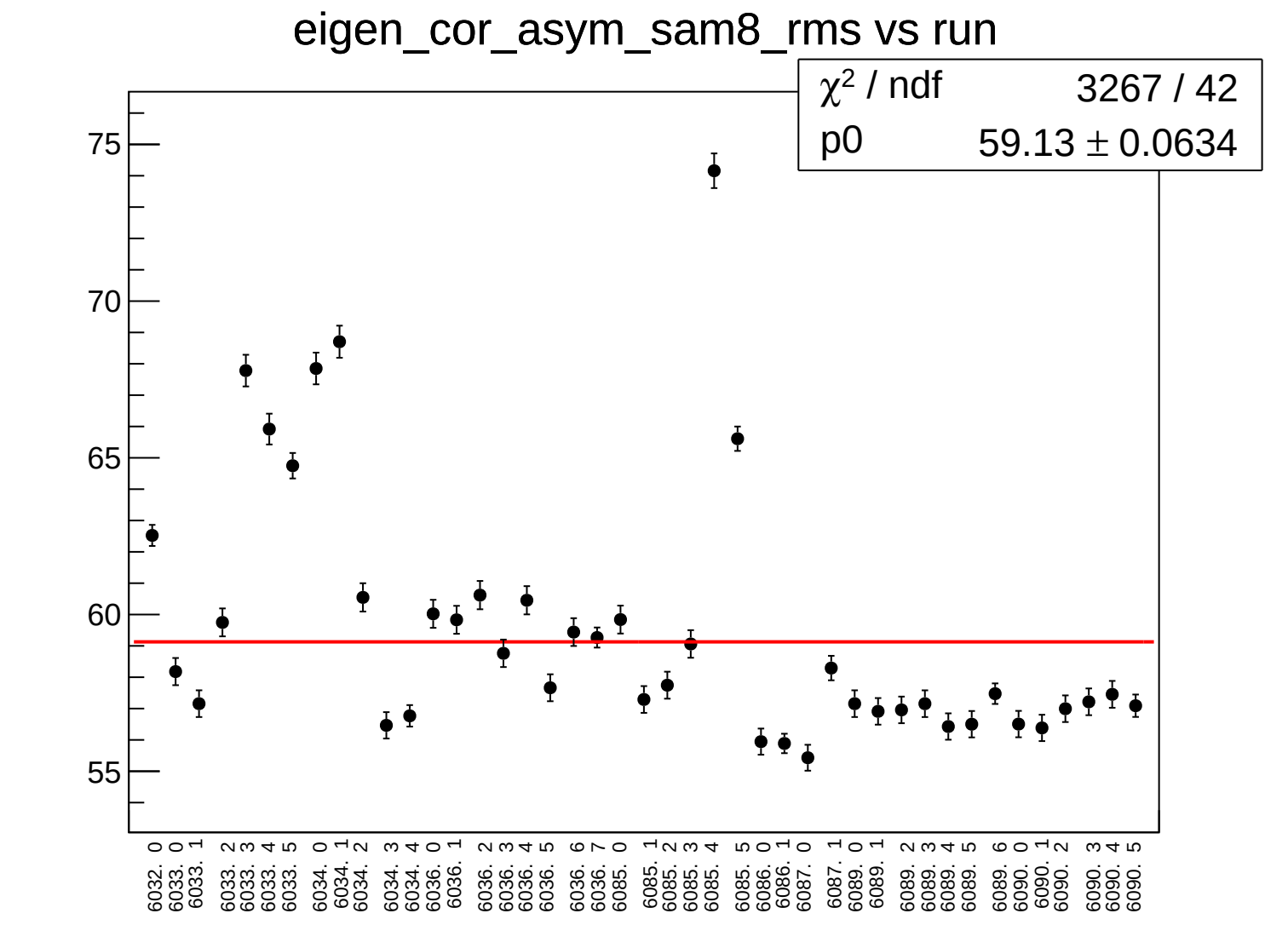

cor_asym_sam8_rms vs run
χ² / ndf 3267 / 42
p0 59.13 ± 0.0634
75
70
65
60
55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

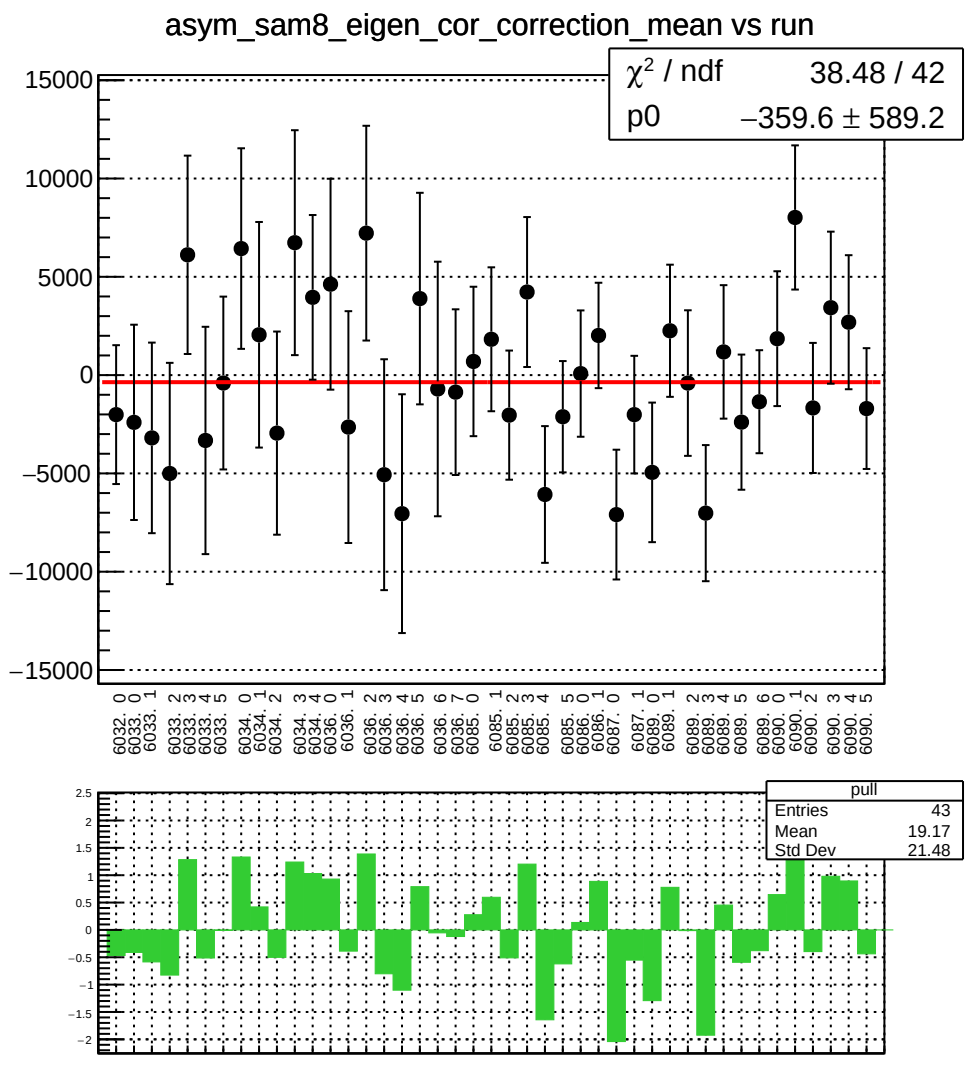

asym_sam8_cor_correction_mean vs run
χ² / ndf 38.48 / 42
p0 −359.6 ± 589.2
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.17
Std Dev 21.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

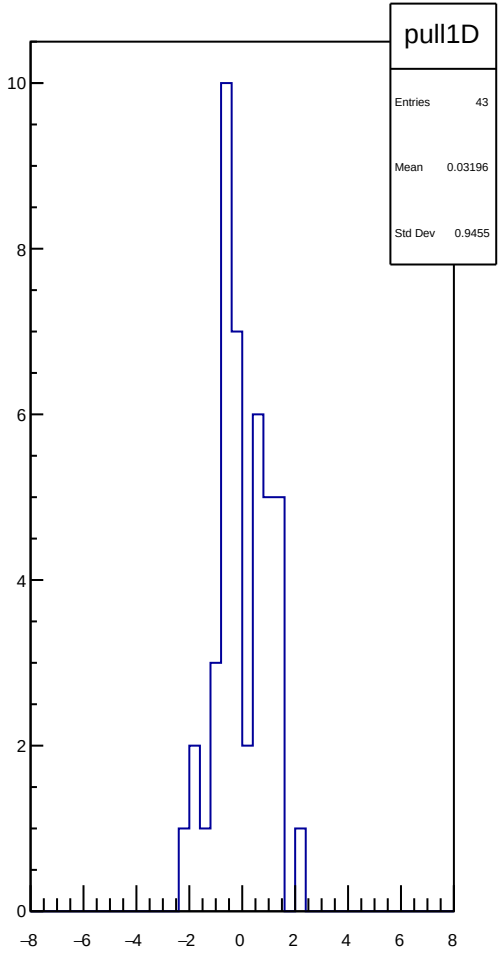

pull1D
Entries 43
Mean 0.03196
Std Dev 0.9455
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

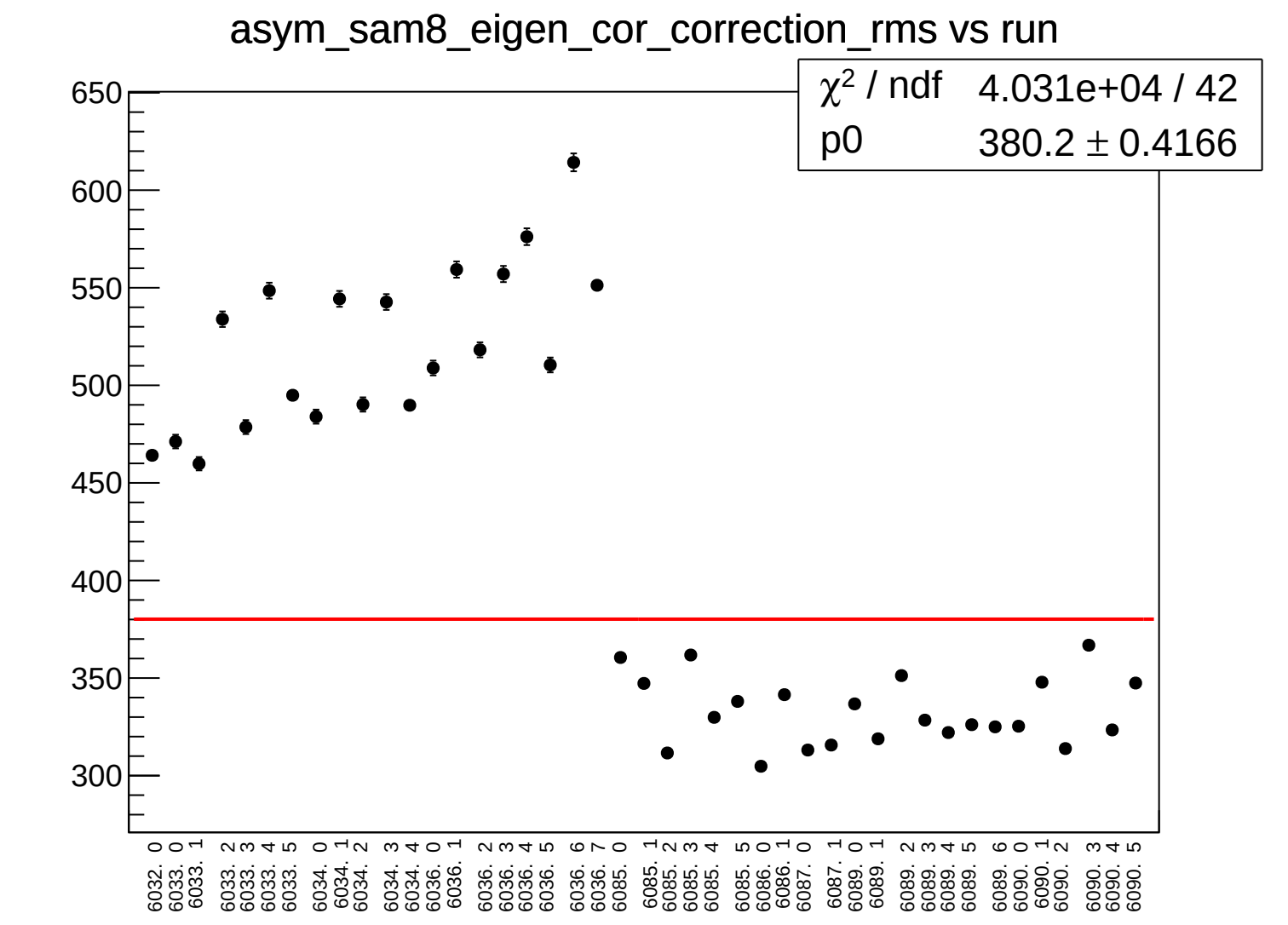

asym_sam8_cor_correction_rms vs run
χ² / ndf 4.031e+04 / 42
p0 380.2 ± 0.4166
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

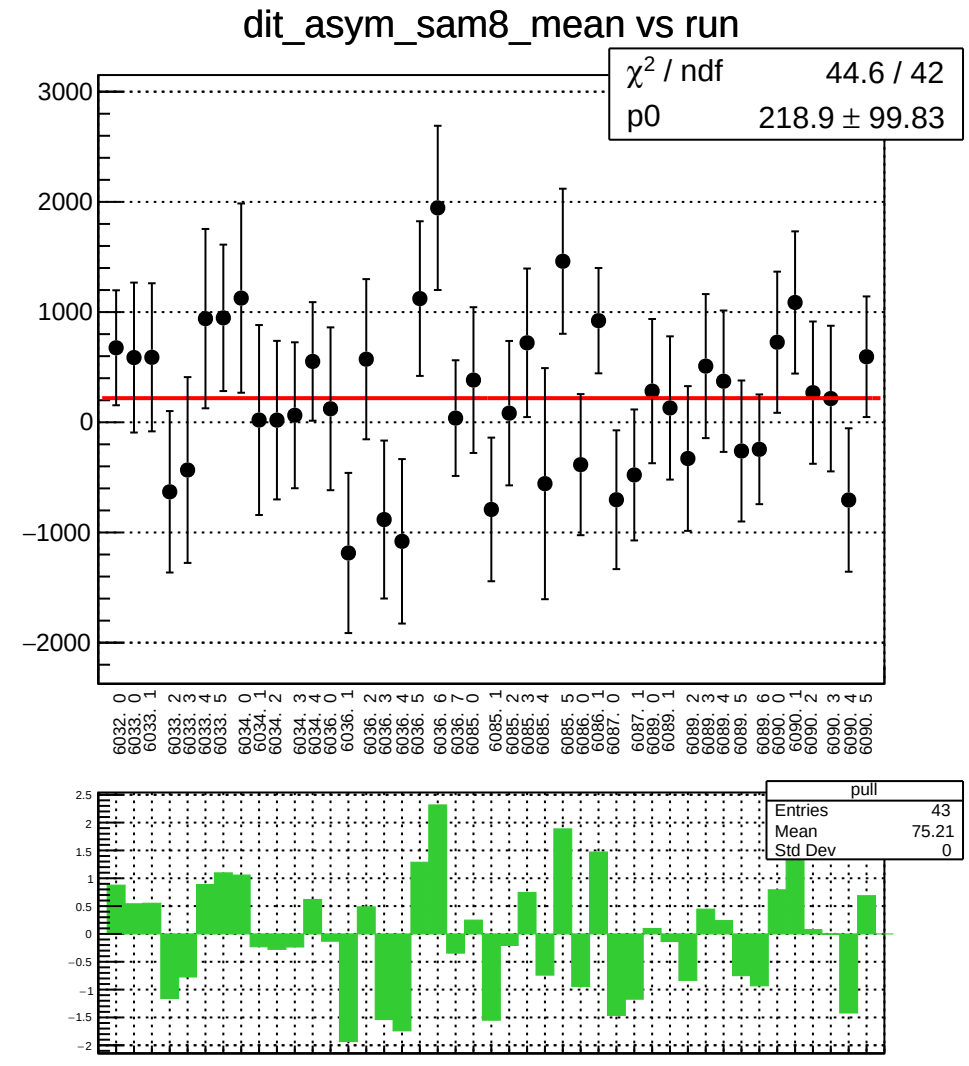

eigen_cor_asym_sam8_mean vs run
χ² / ndf 44.39 / 42
p0 148.2 ± 89.66
2500
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01729
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

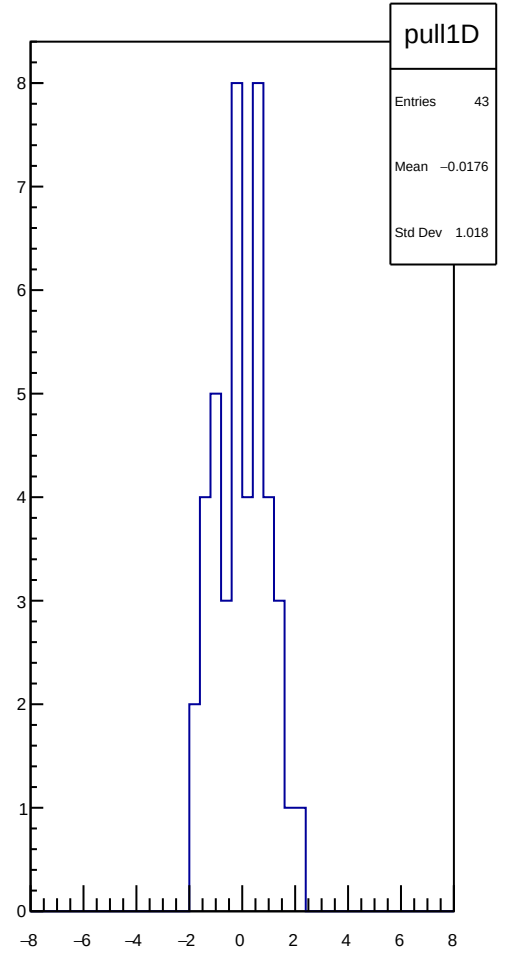

eigen_cor_asym_sam8_rms vs run
χ² / ndf 3267 / 42
p0 59.13 ± 0.0634
75
70
65
60
55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

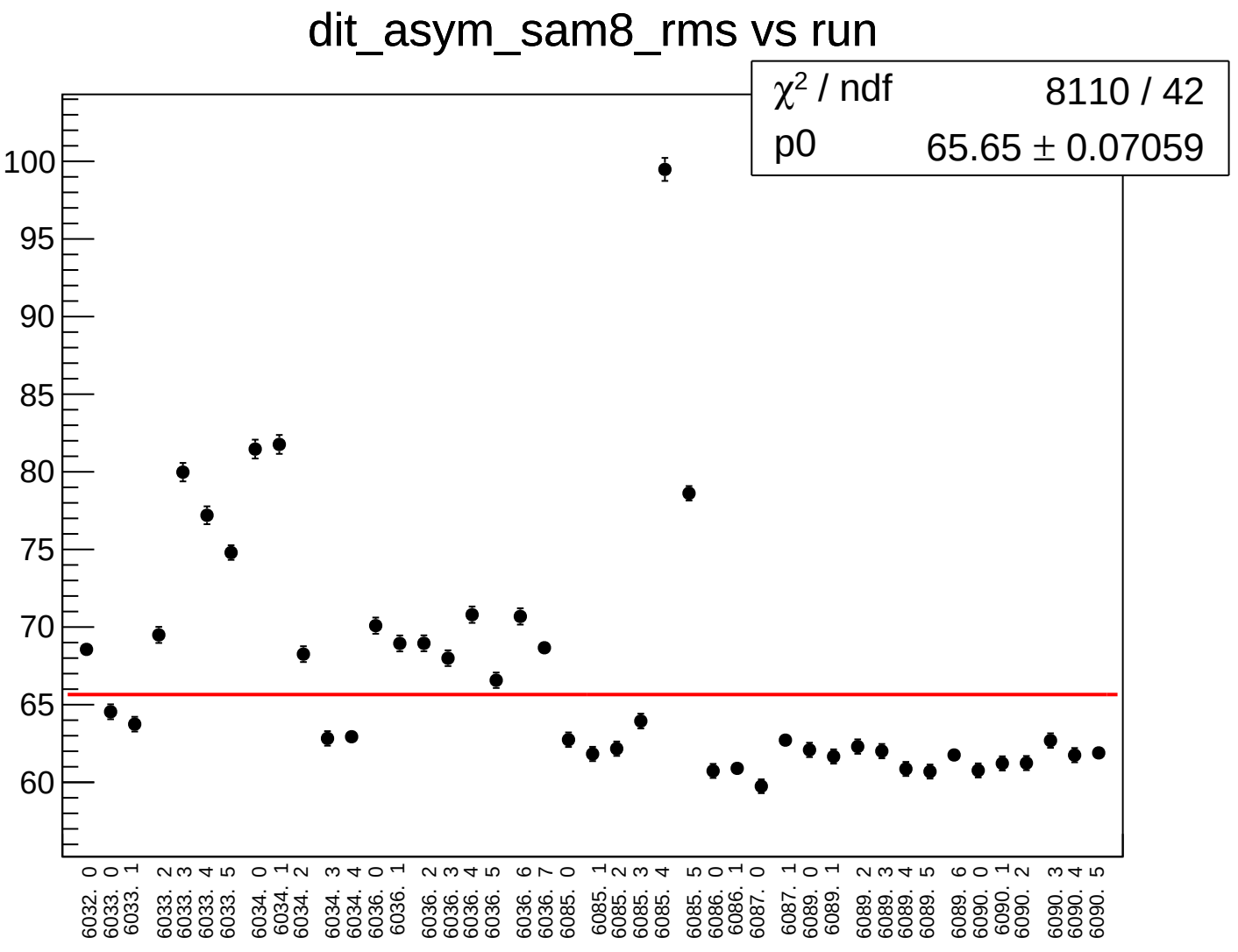

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 38.48 / 42
p0 −359.6 ± 589.2
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.17
Std Dev 21.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

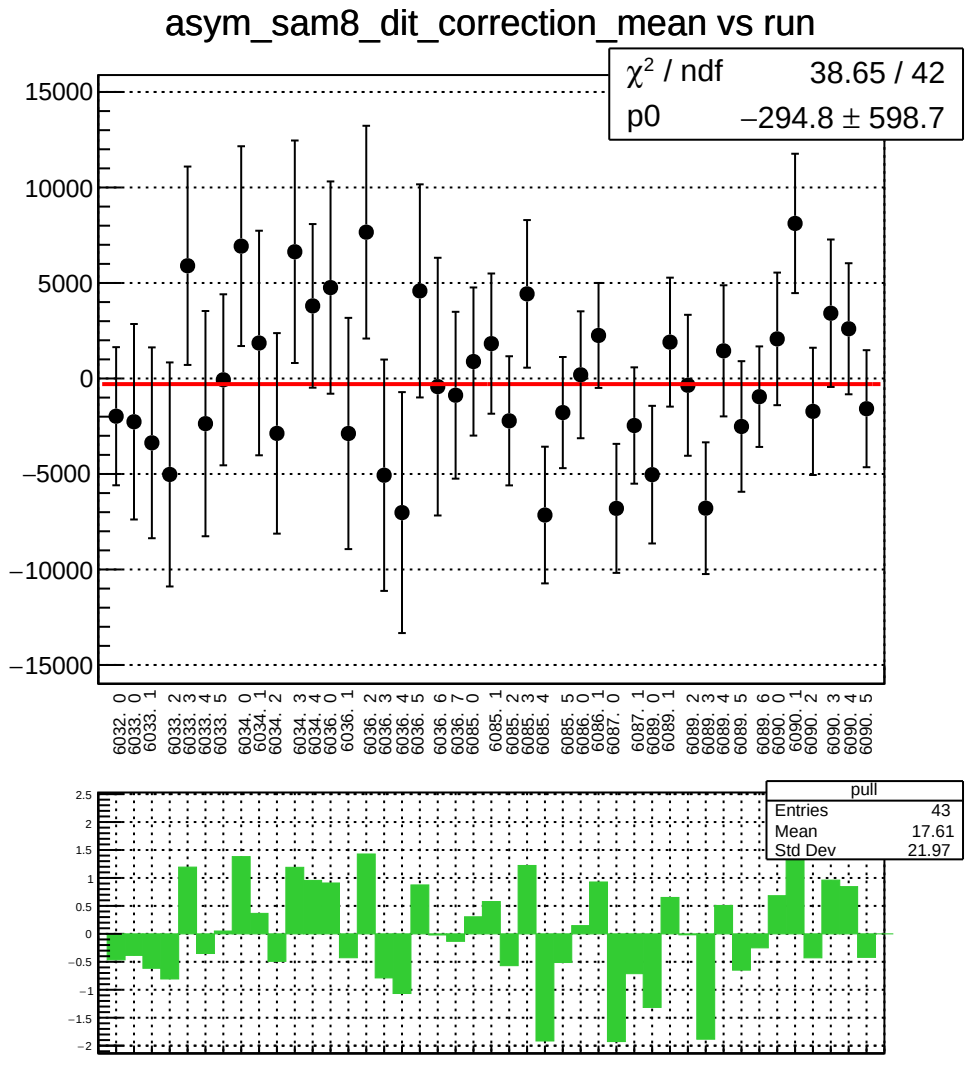

pull1D
Entries 43
Mean 0.03196
Std Dev 0.9455
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

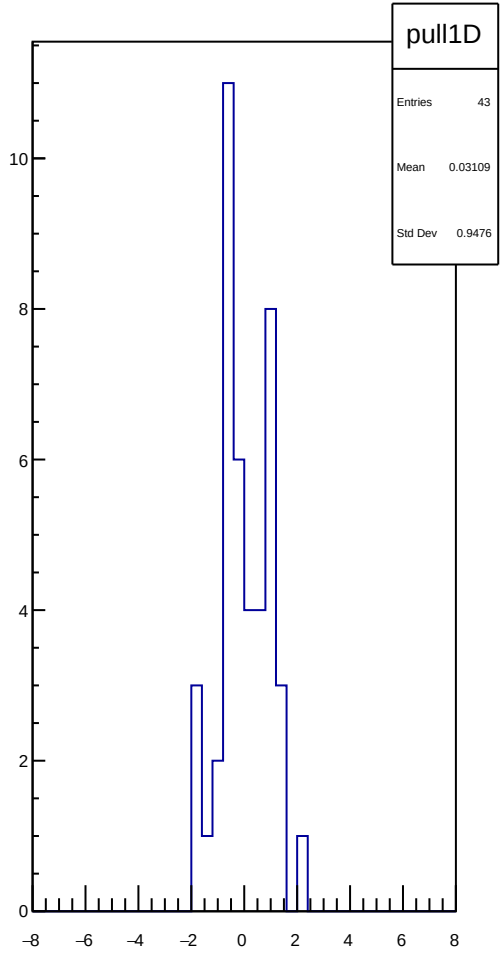

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4.031e+04 / 42
p0 380.2 ± 0.4166
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

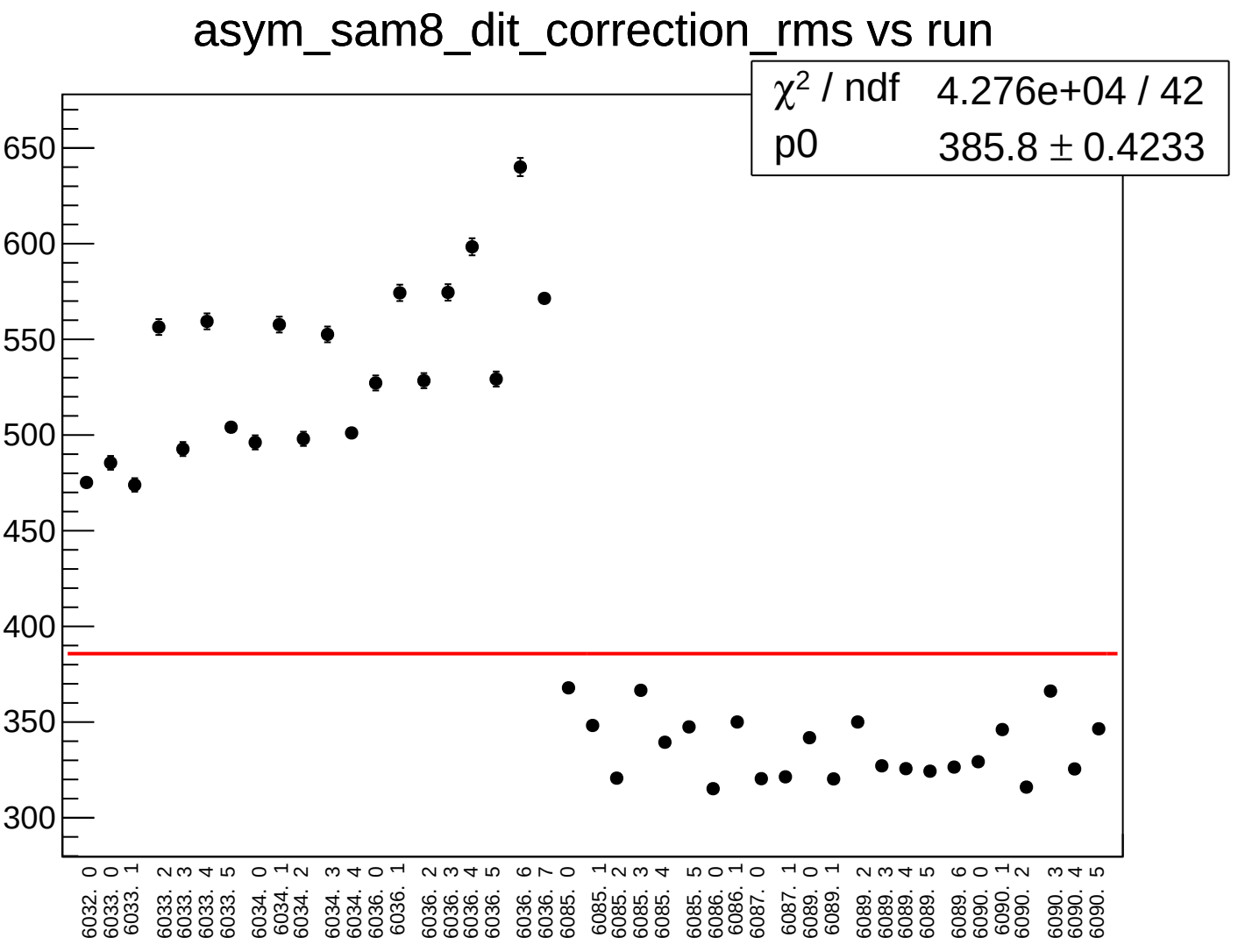

dit_asym_sam8_mean vs run
χ² / ndf 44.6 / 42
p0 218.9 ± 99.83
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 75.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

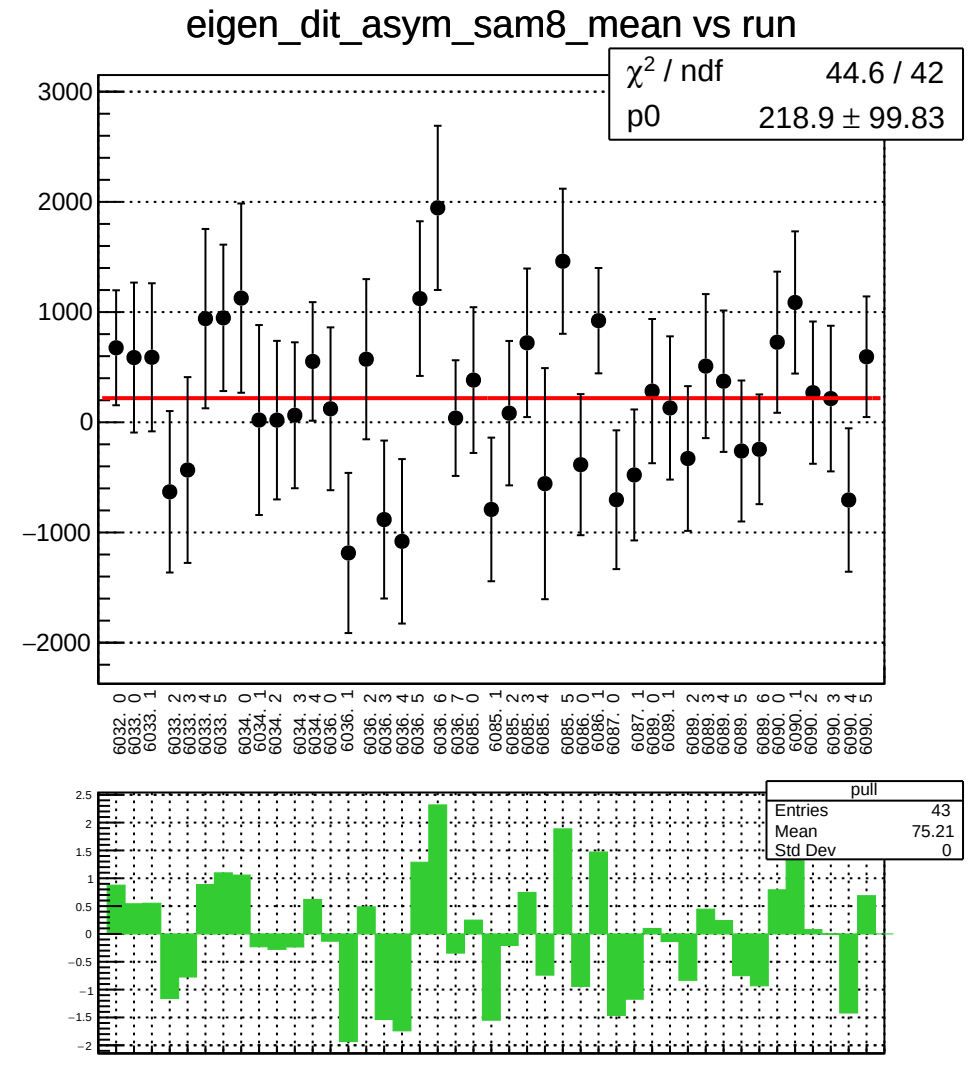

pull1D
Entries 43
Mean −0.0176
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

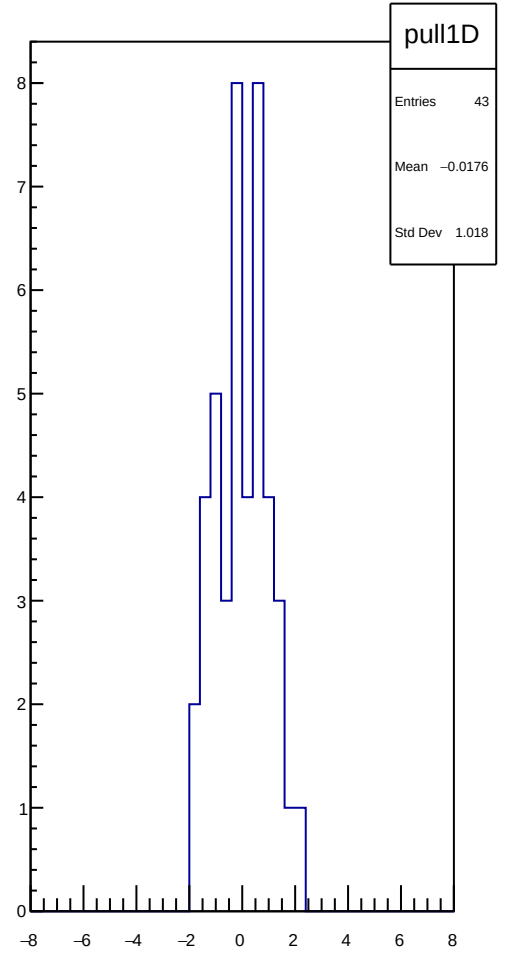

dit_asym_sam8_rms vs run
χ² / ndf 8110 / 42
p0 65.65 ± 0.07059
100
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

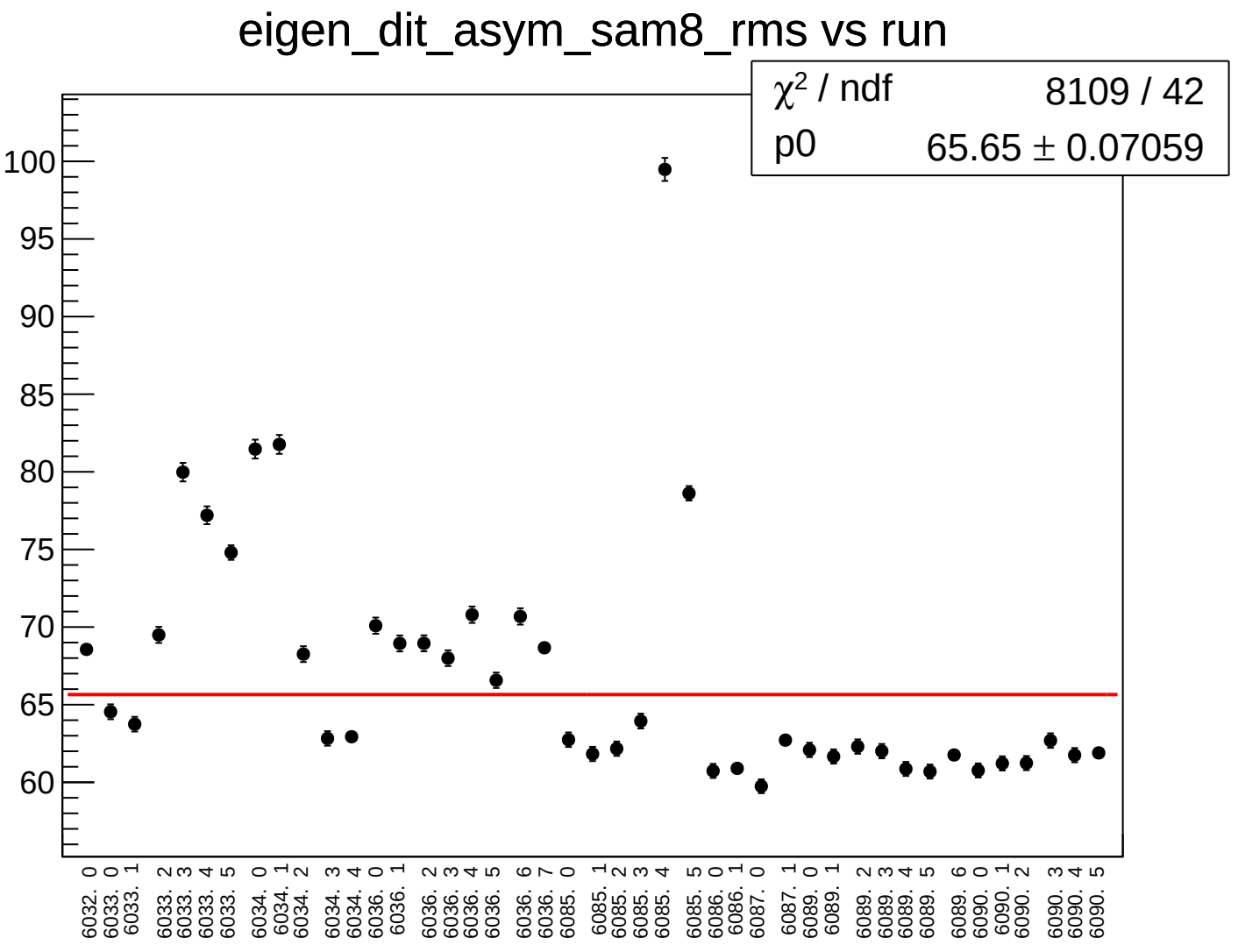

asym_sam8_dit_correction_mean vs run
χ² / ndf 38.65 / 42
p0 −294.8 ± 598.7
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.61
Std Dev 21.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

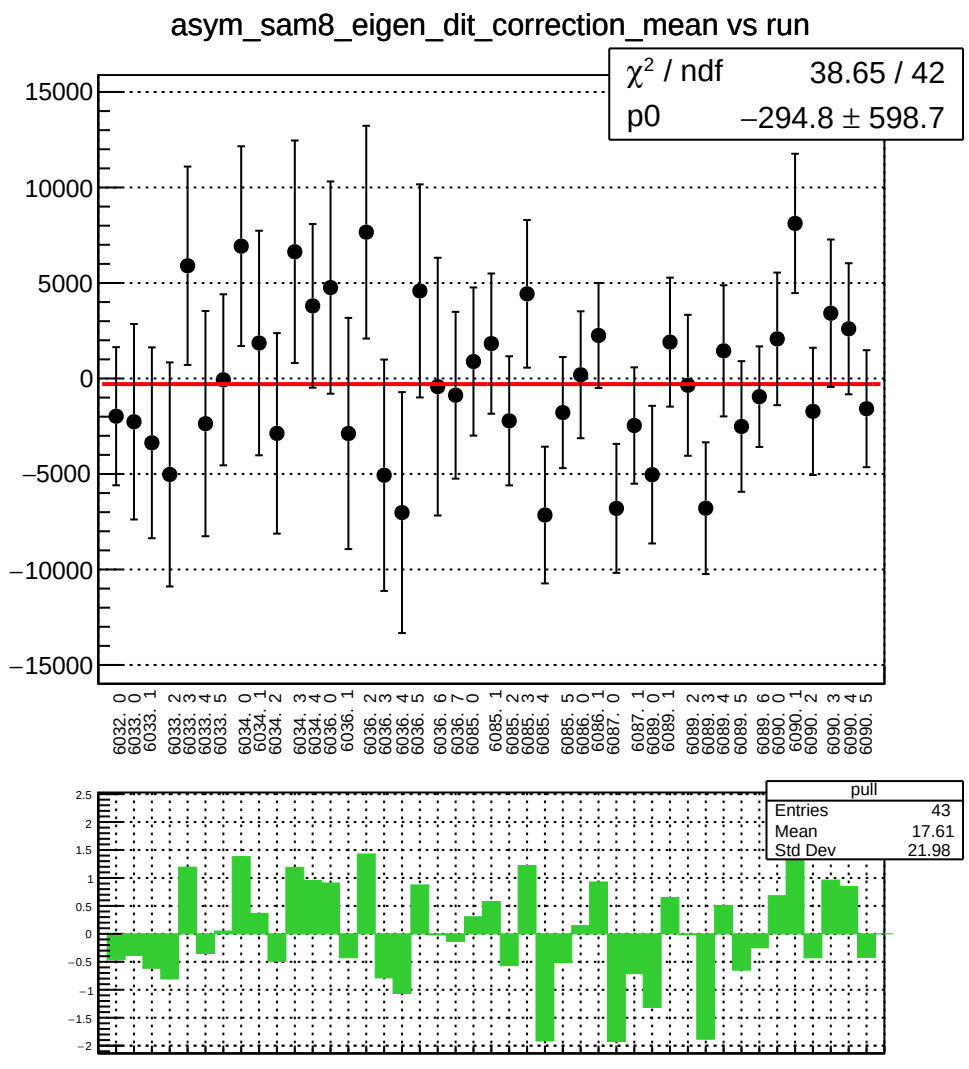

pull1D
Entries 43
Mean 0.03109
Std Dev 0.9476
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

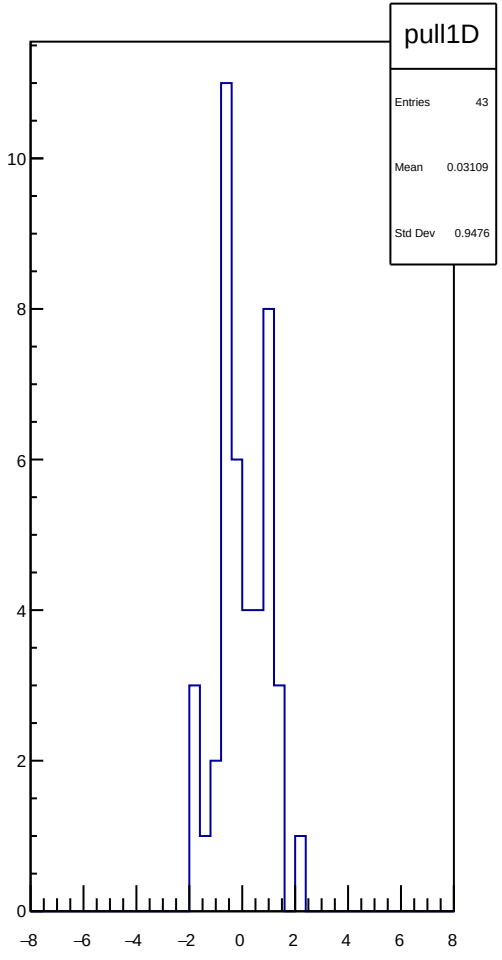

asym_sam8_dit_correction_rms vs run
χ² / ndf 4.276e+04 / 42
p0 385.8 ± 0.4233
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

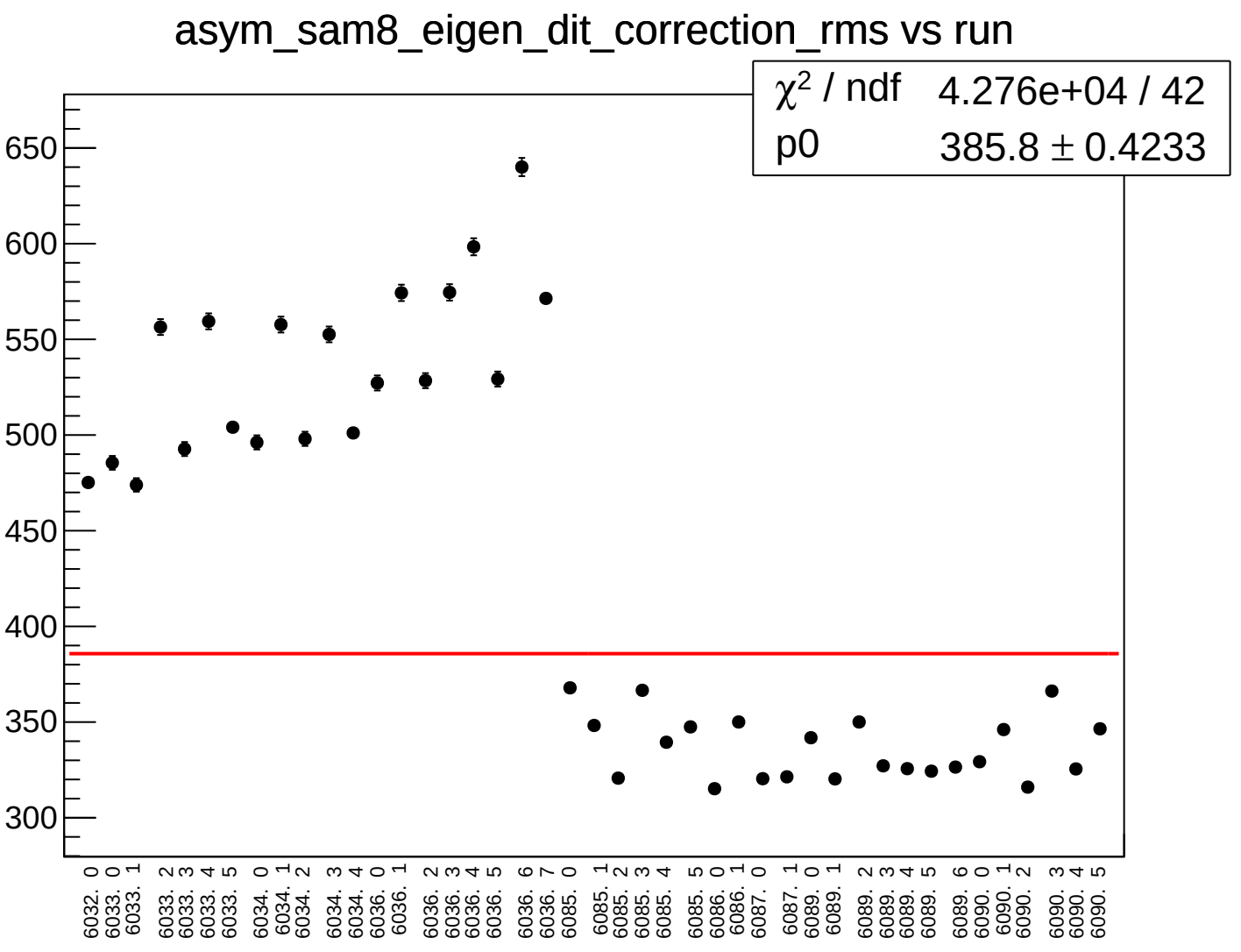

eigen_dit_asym_sam8_mean vs run
χ² / ndf 44.6 / 42
p0 218.9 ± 99.83
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 75.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

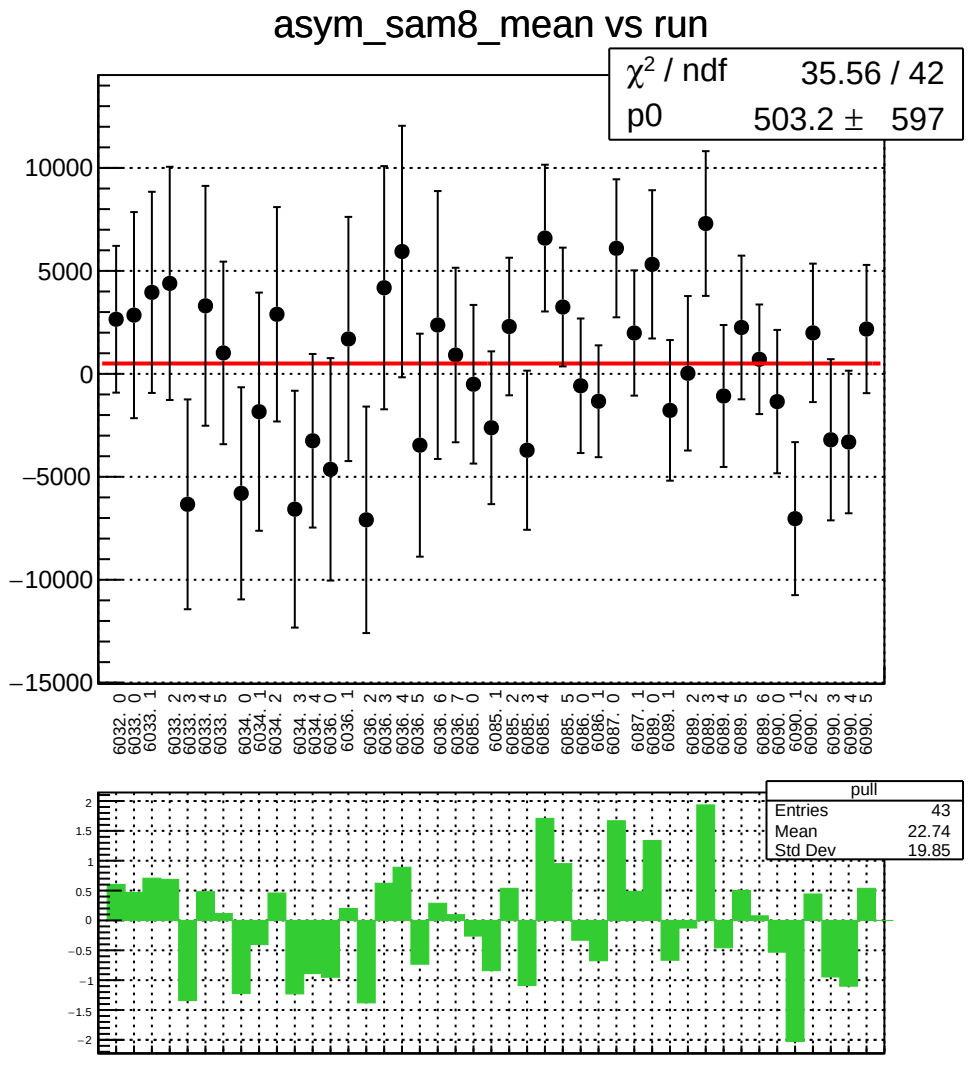

pull1D
Entries 43
Mean −0.0176
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

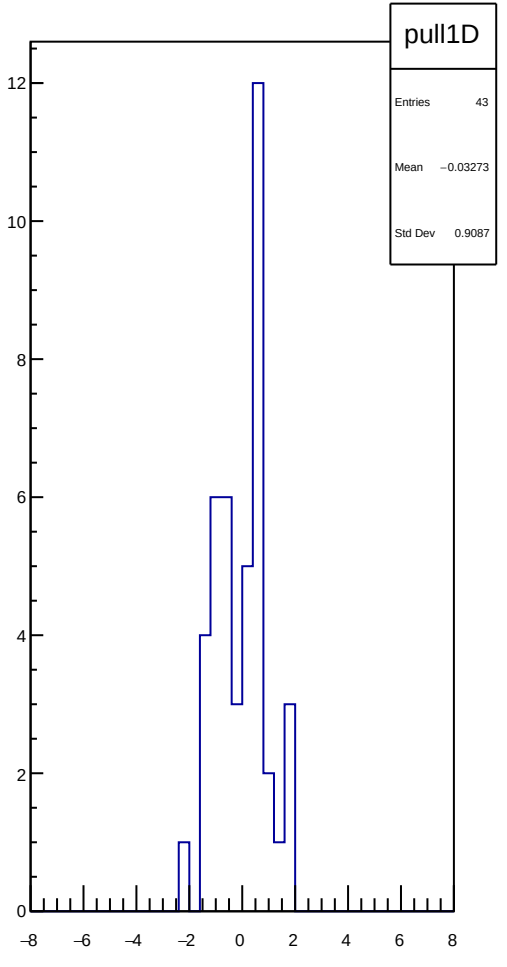

eigen_dit_asym_sam8_rms vs run
χ² / ndf 8109 / 42
p0 65.65 ± 0.07059
100
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

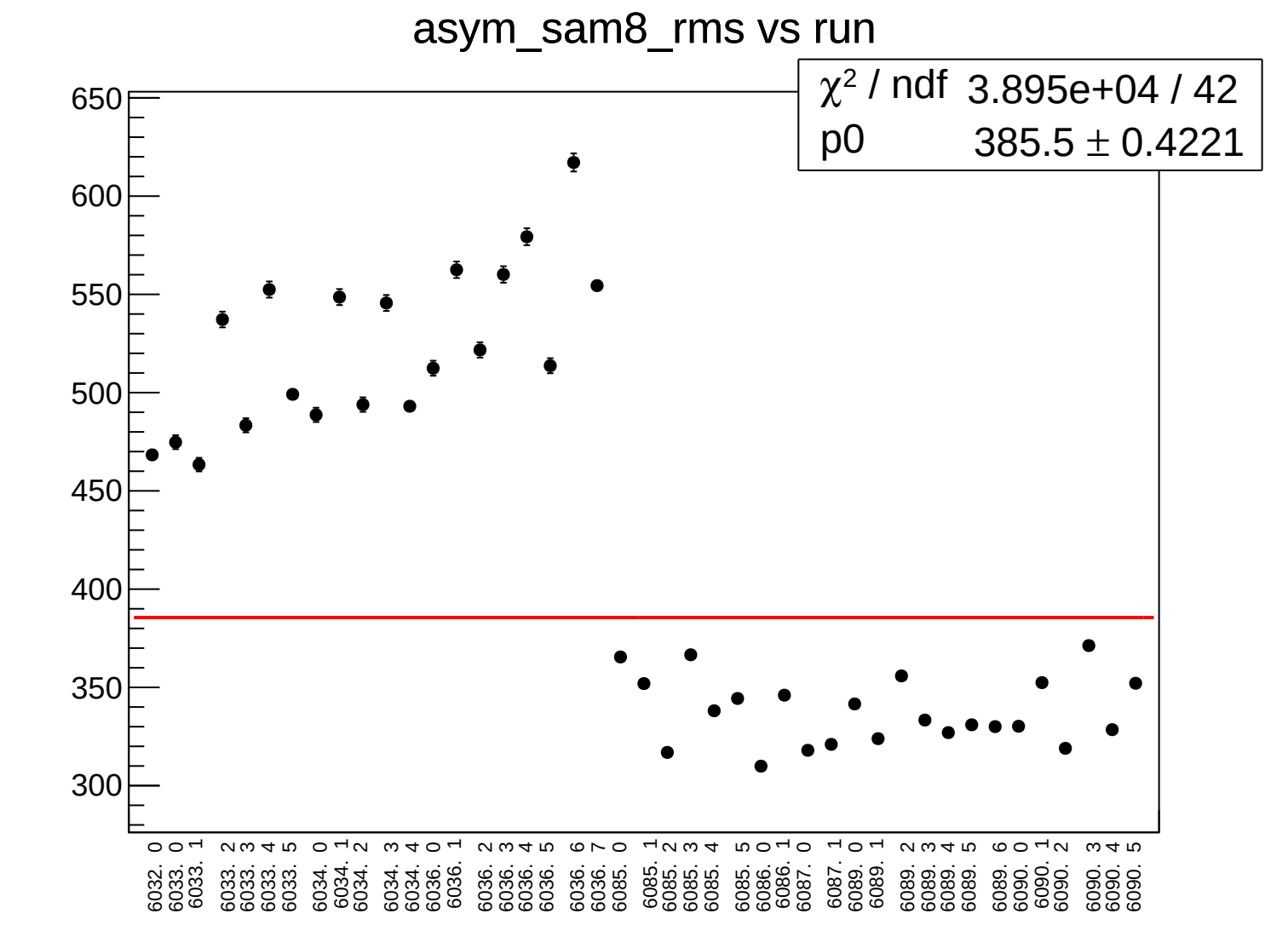

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 38.65 / 42
p0 −294.8 ± 598.7
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.61
Std Dev 21.98
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

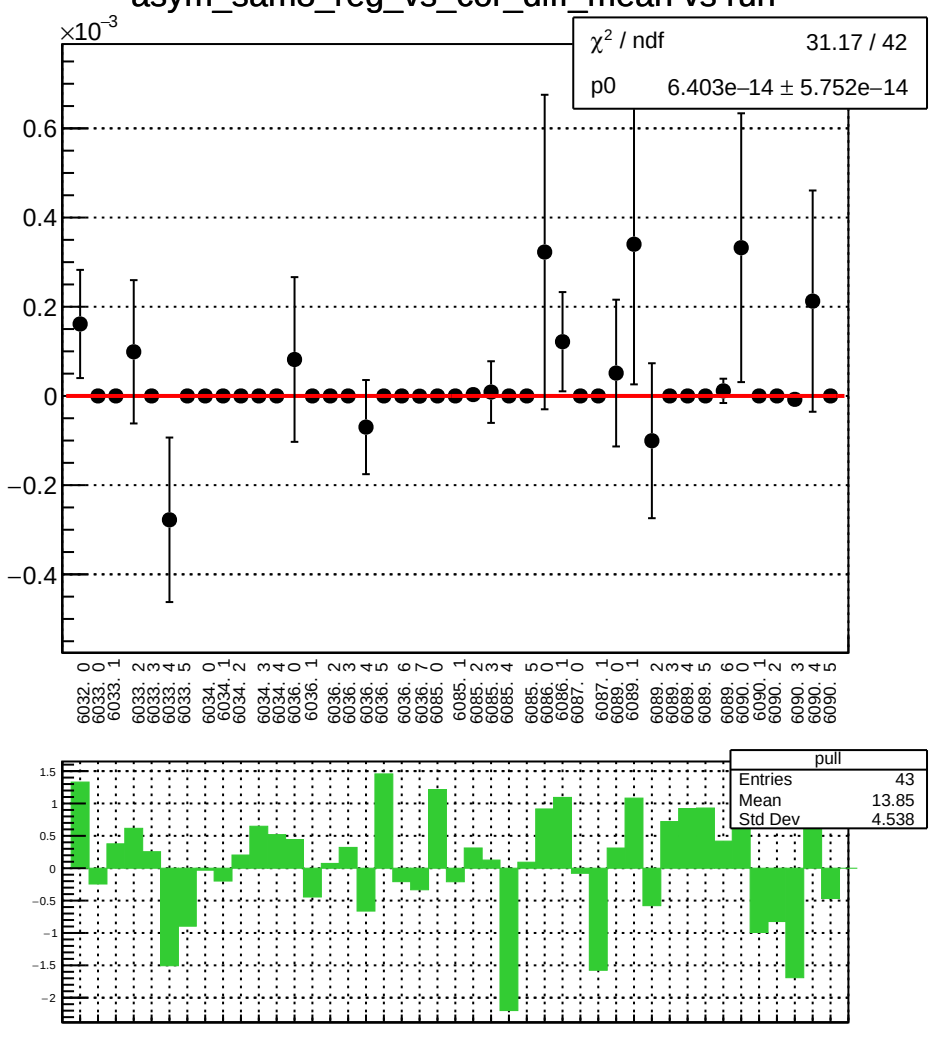

pull1D
Entries 43
Mean 0.03109
Std Dev 0.9476
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

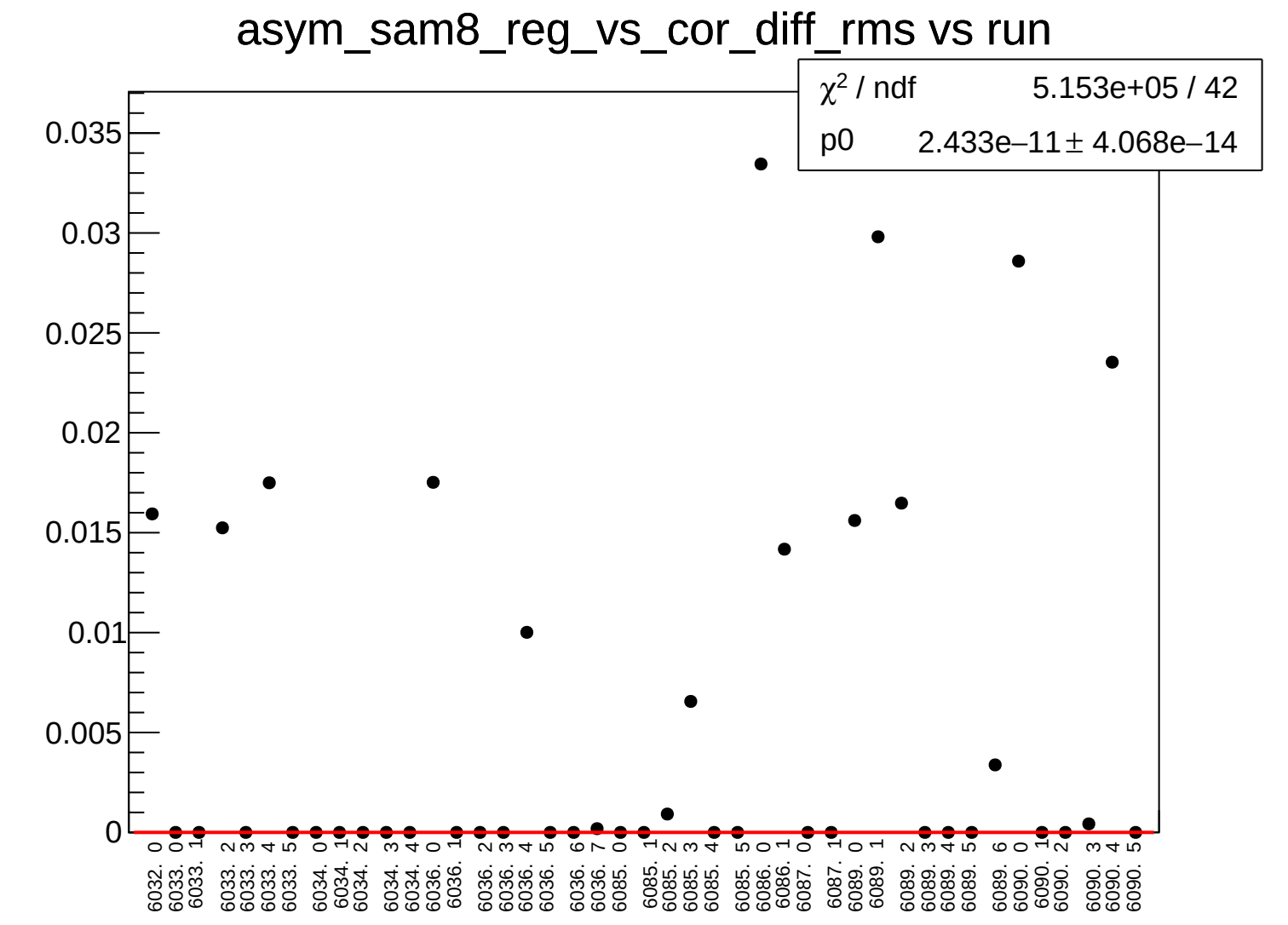

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4.276e+04 / 42
p0 385.8 ± 0.4233
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

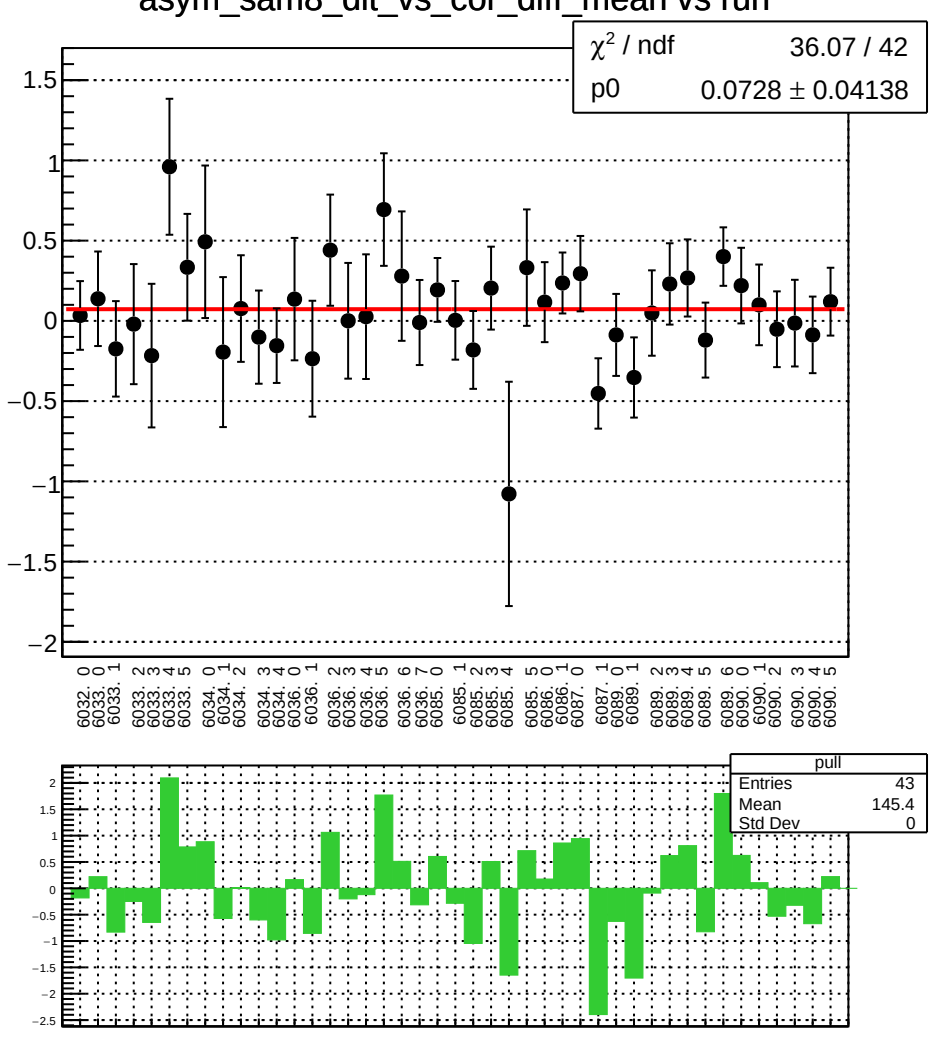

asym_sam8_mean vs run
χ² / ndf 35.56 / 42
p0 503.2 ± 597
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.74
Std Dev 19.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

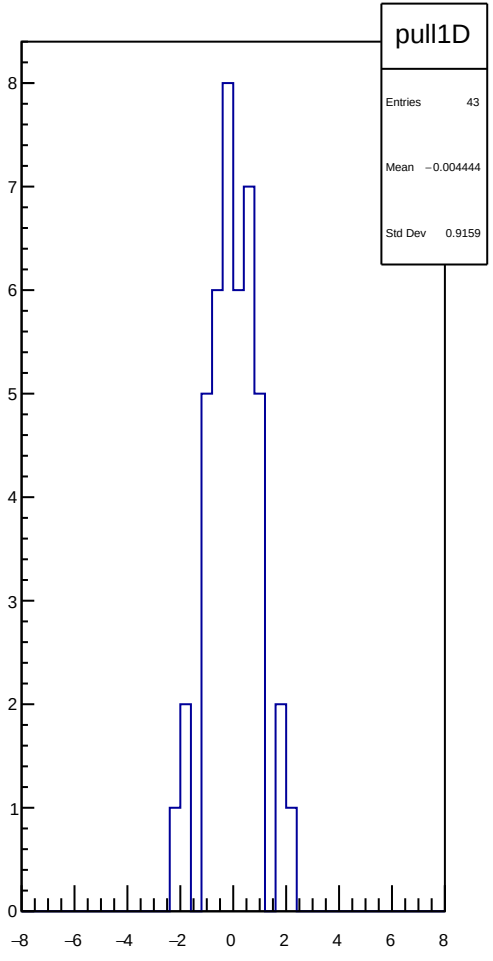

pull1D
Entries 43
Mean −0.03273
Std Dev 0.9087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

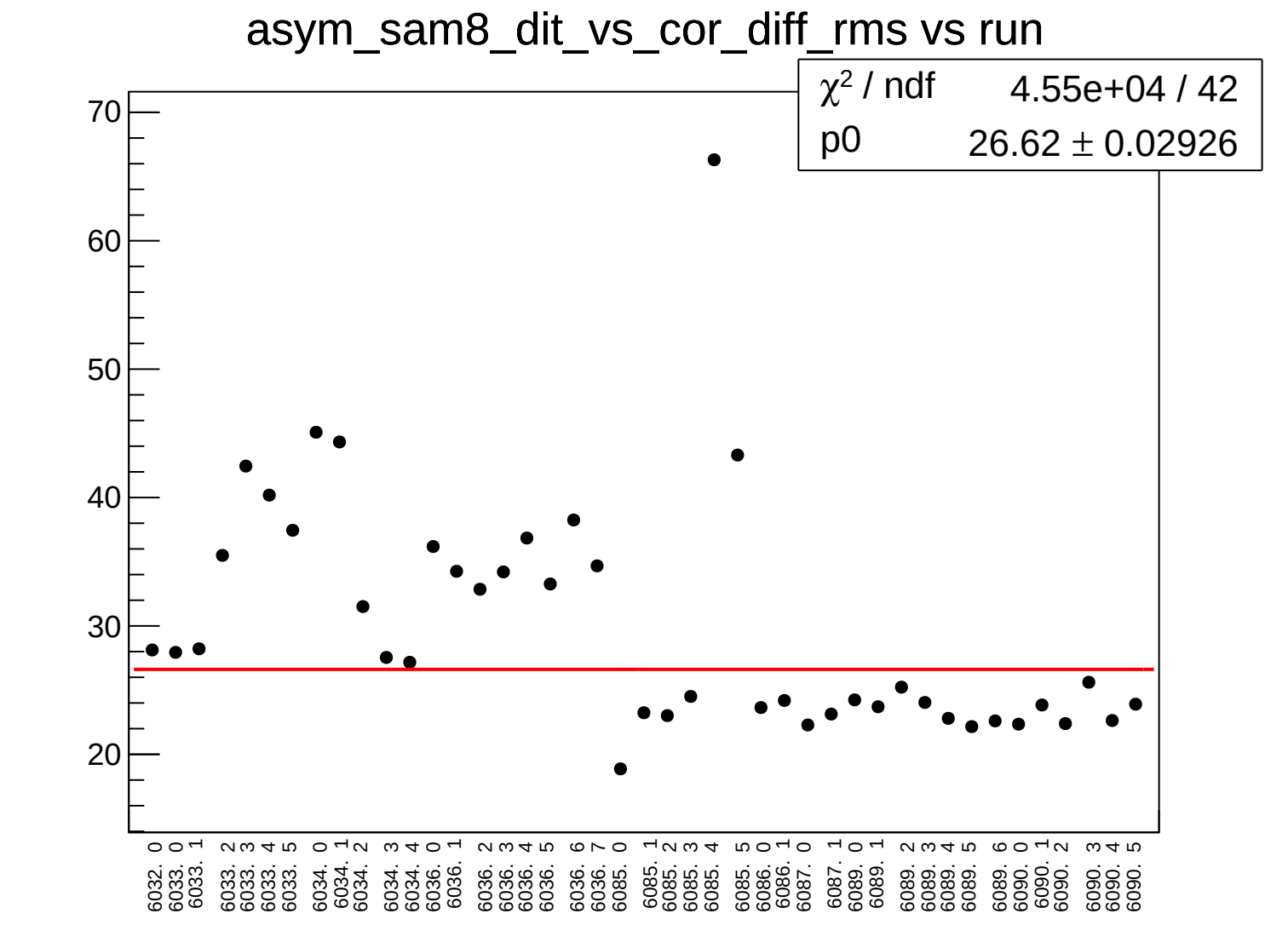

asym_sam8_rms vs run
χ² / ndf 3.895e+04 / 42
p0 385.5 ± 0.4221
650
600
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

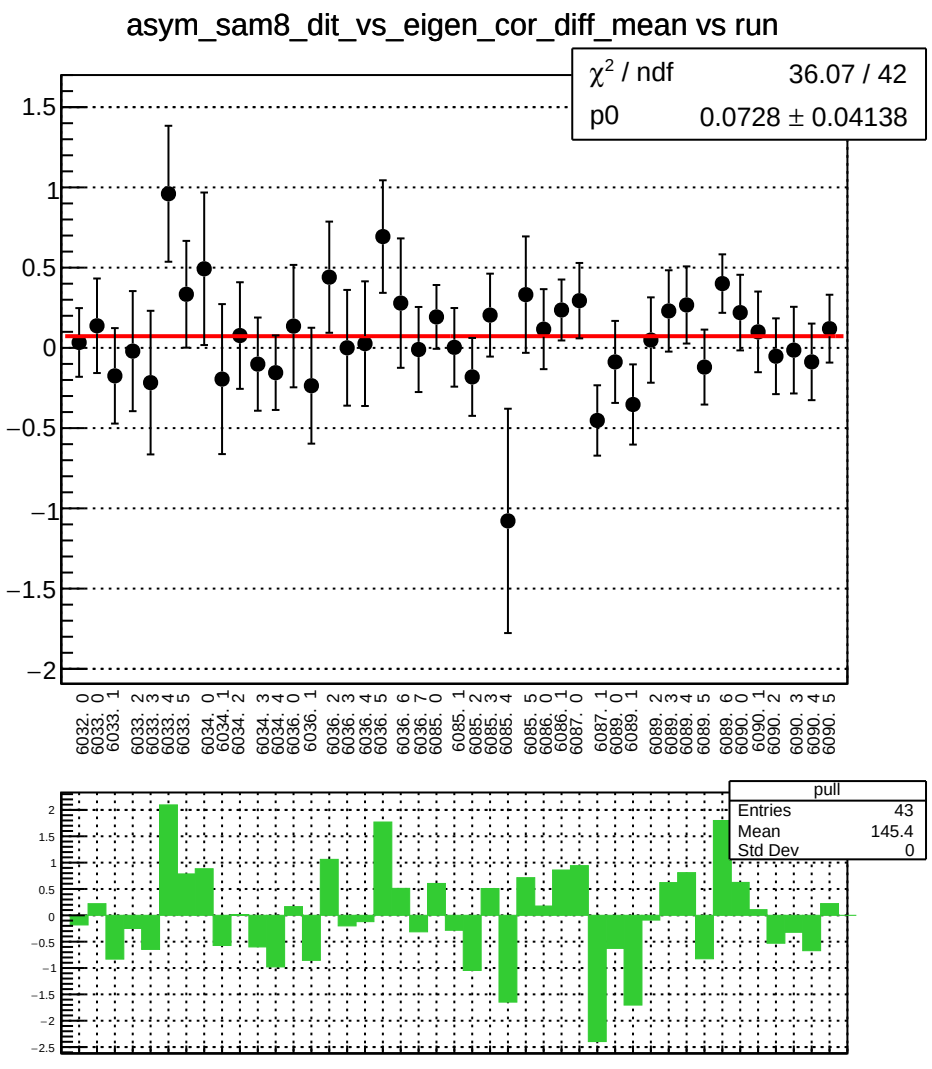

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 31.17 / 42
p0 6.403e−14 ± 5.752e−14
0.6
0.4
0.2
0
−0.2
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.85
Std Dev 4.538
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.07464
Std Dev 0.8481
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

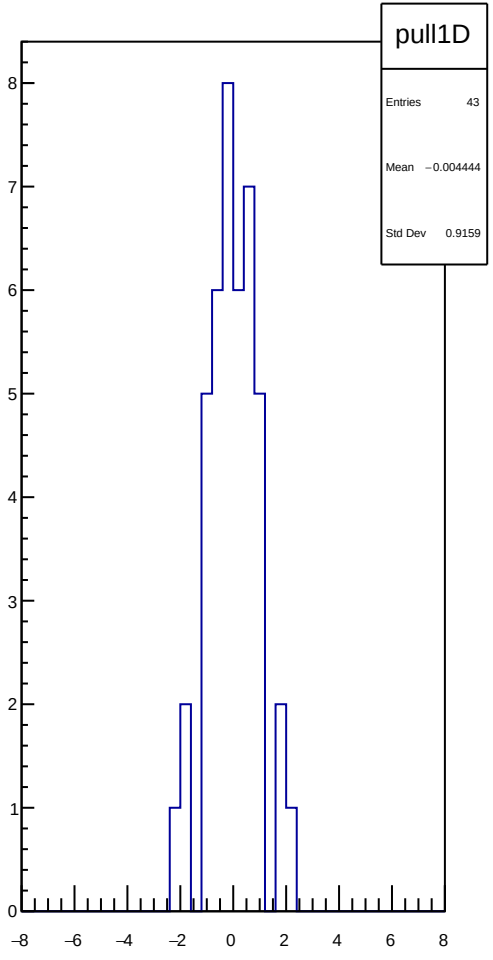

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 5.153e+05 / 42
p0 2.433e−11 ± 4.068e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

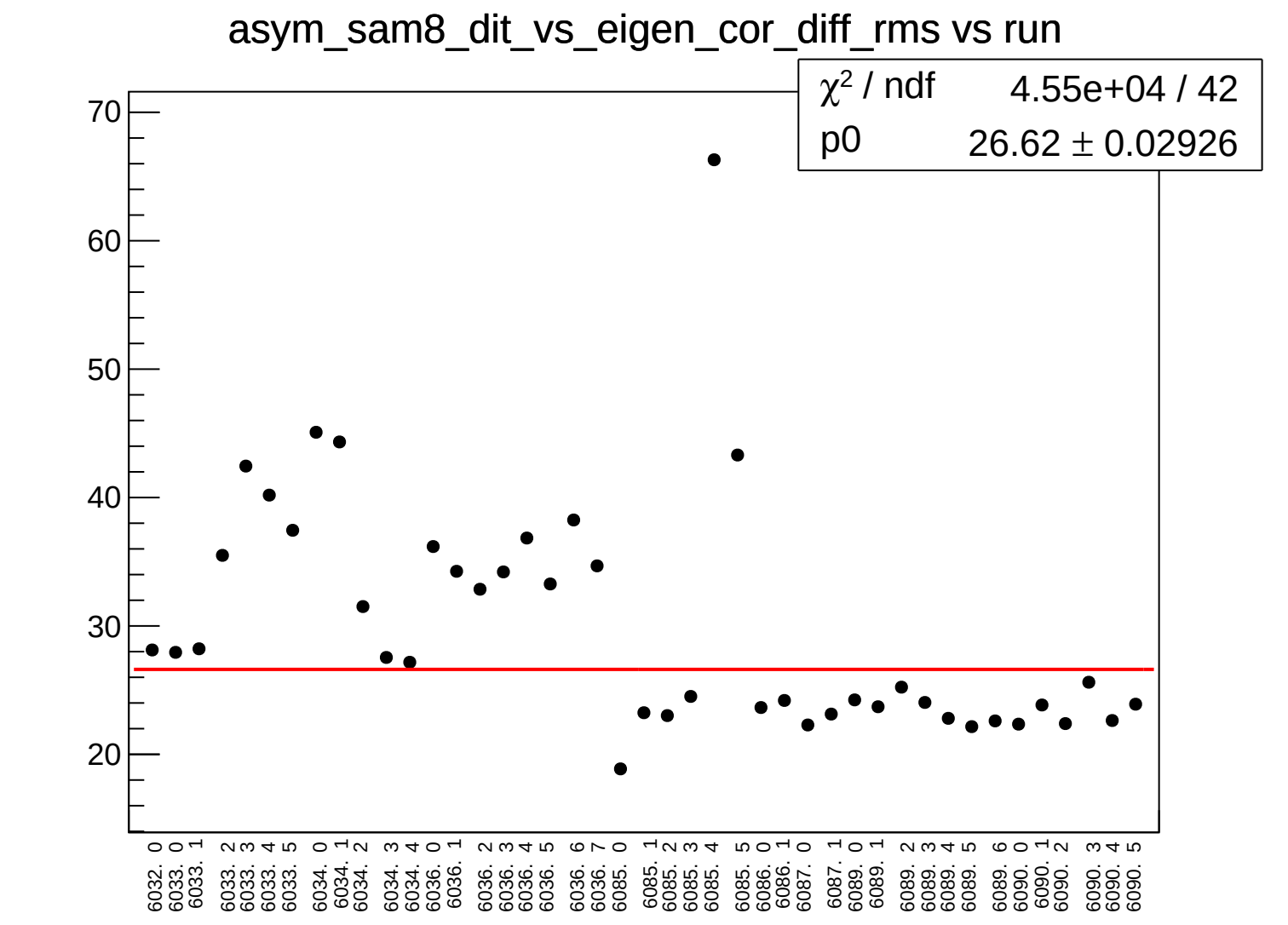

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 36.07 / 42
p0 0.0728 ± 0.04138
pull
Entries 43
Mean 145.4
Std Dev 0

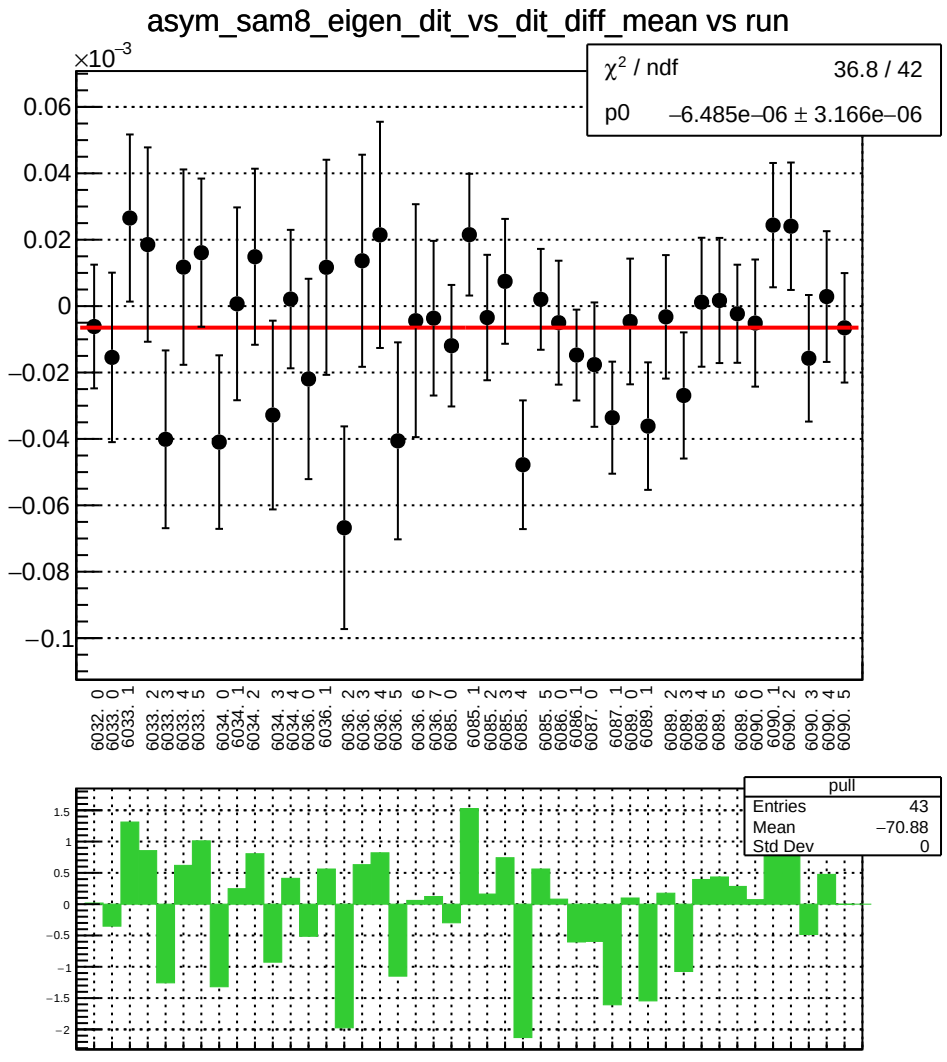

pull1D
Entries 43
Mean −0.004444
Std Dev 0.9159

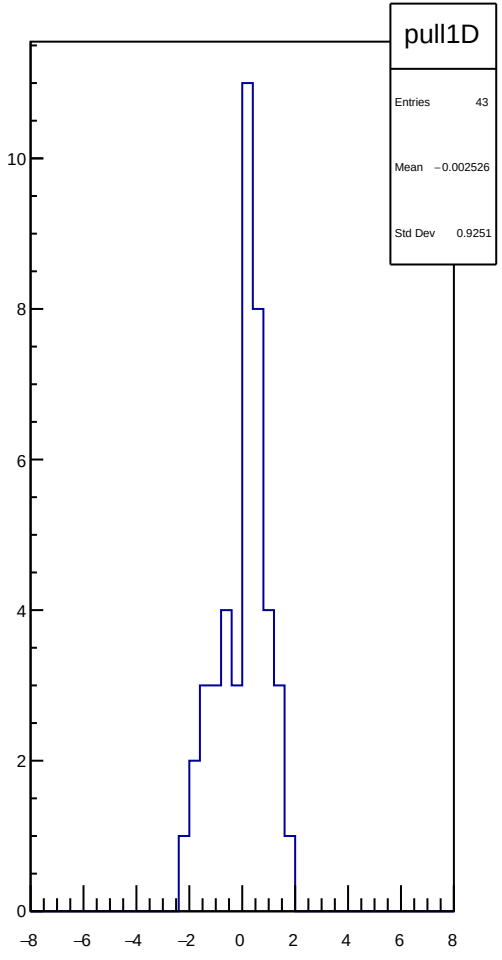

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.55e+04 / 42
p0 26.62 ± 0.02926
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

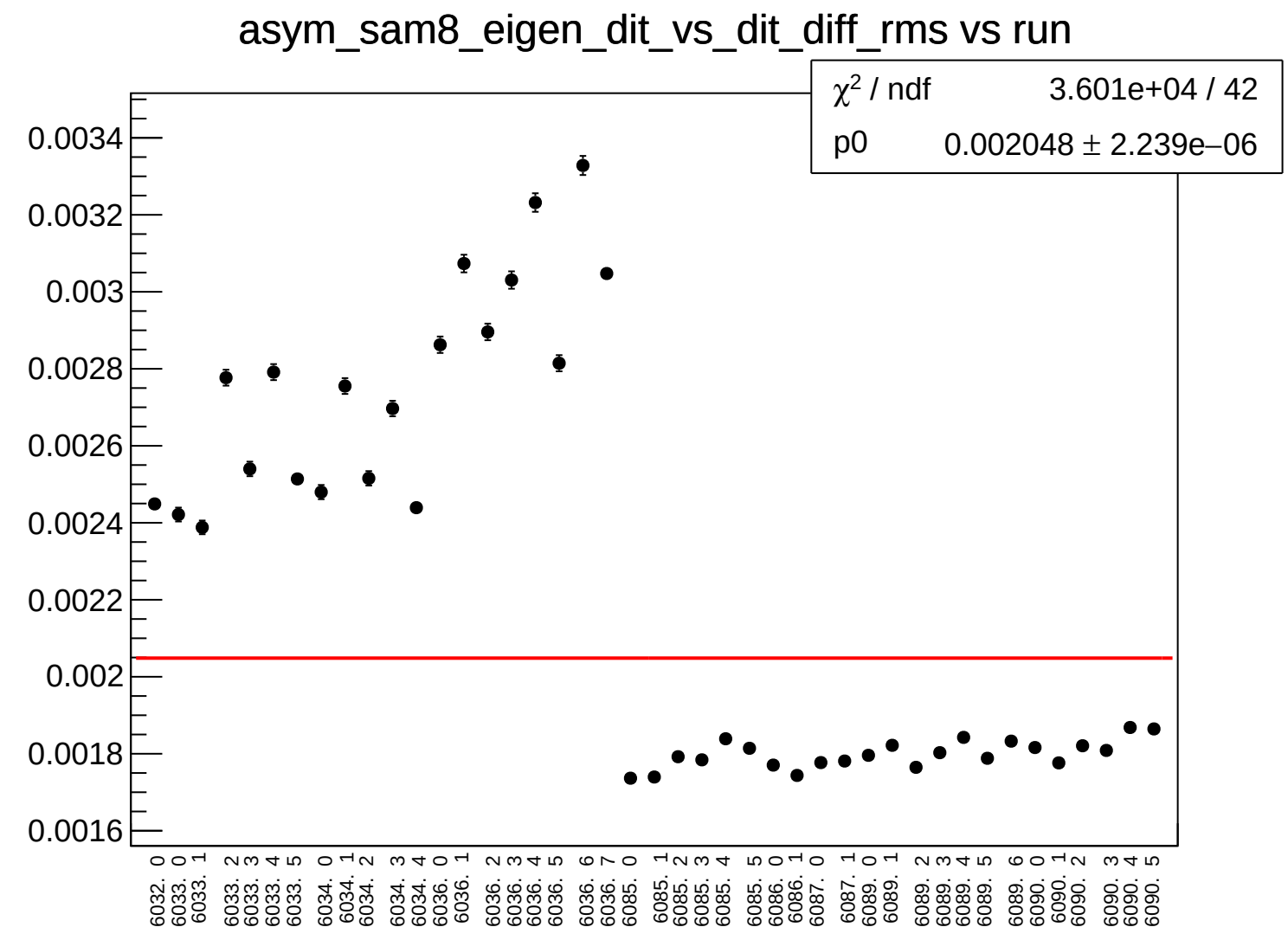

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.07 / 42
p0 0.0728 ± 0.04138
pull
Entries 43
Mean 145.4
Std Dev 0

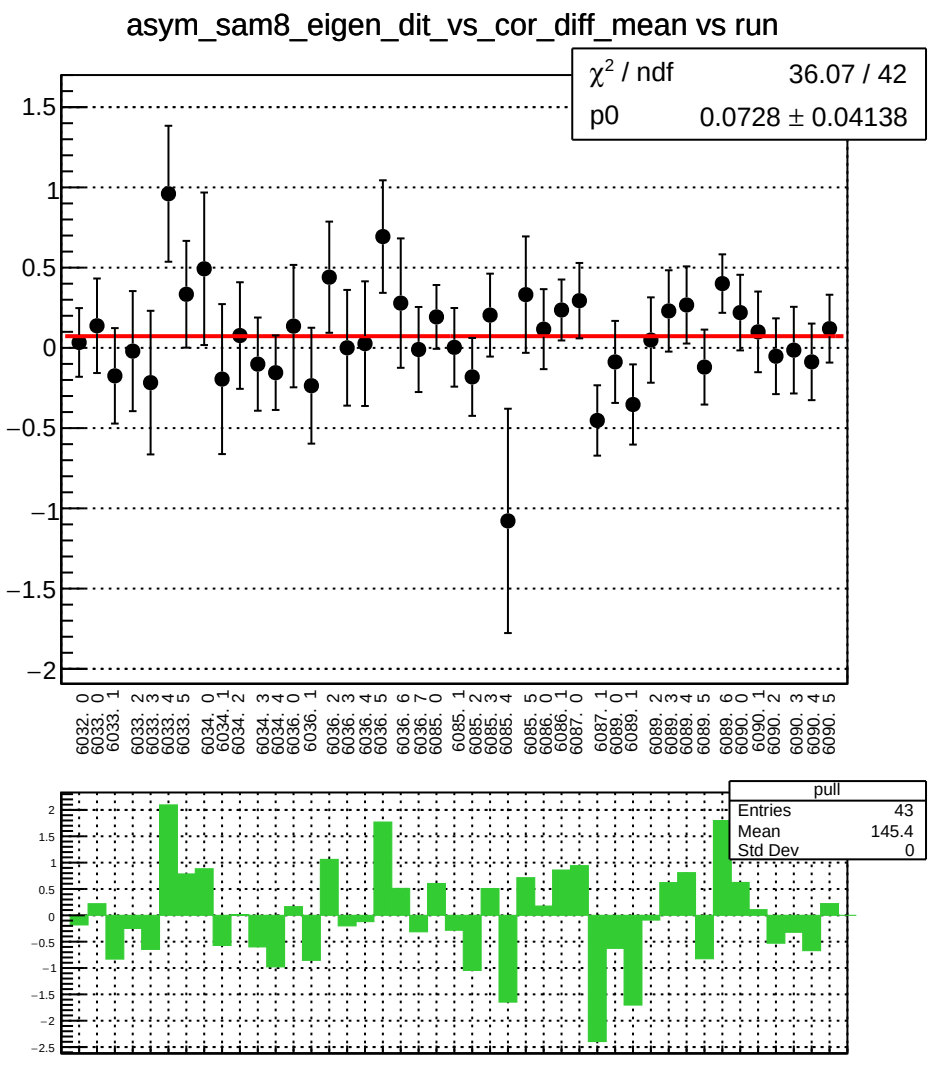

pull1D
Entries 43
Mean −0.004444
Std Dev 0.9159

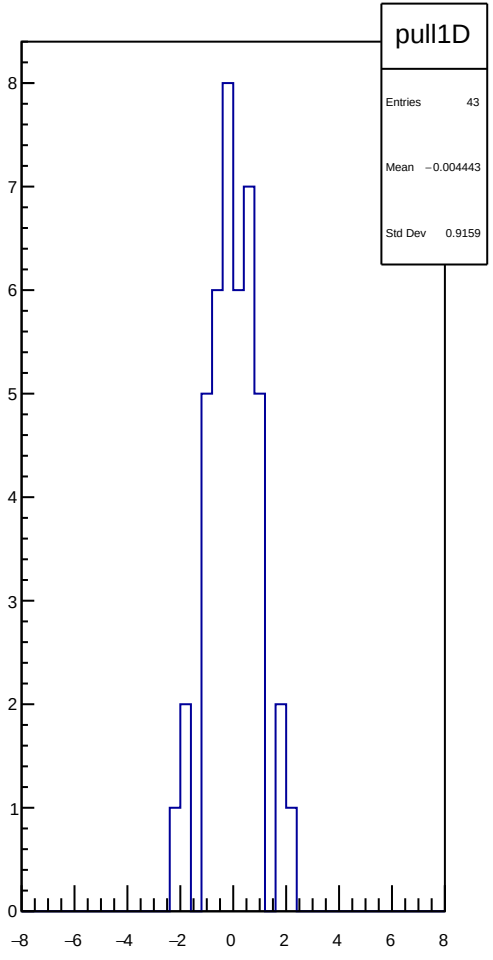

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.55e+04 / 42
p0 26.62 ± 0.02926
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

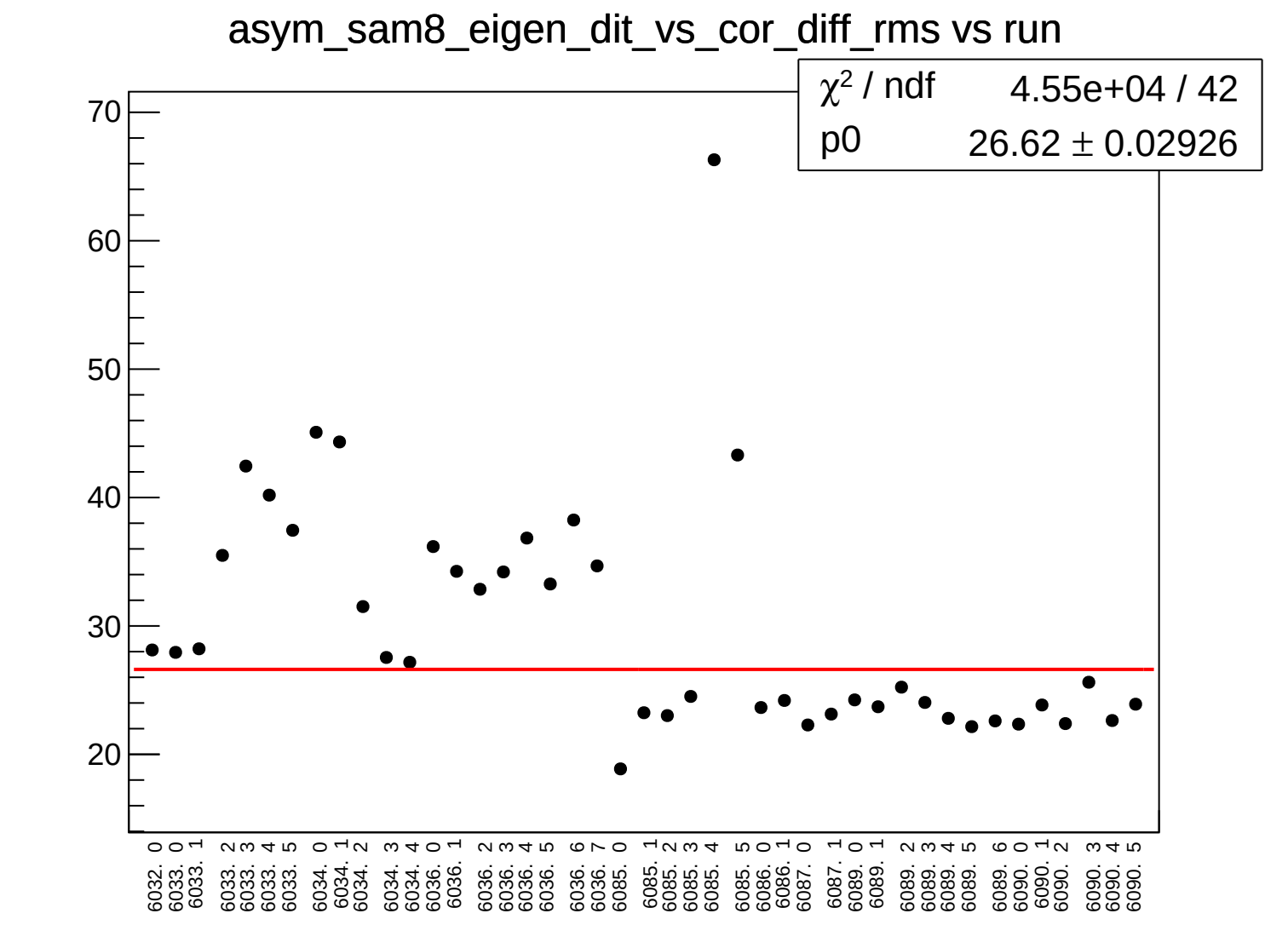

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.8 / 42
p0 −6.485e−06 ± 3.166e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −70.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

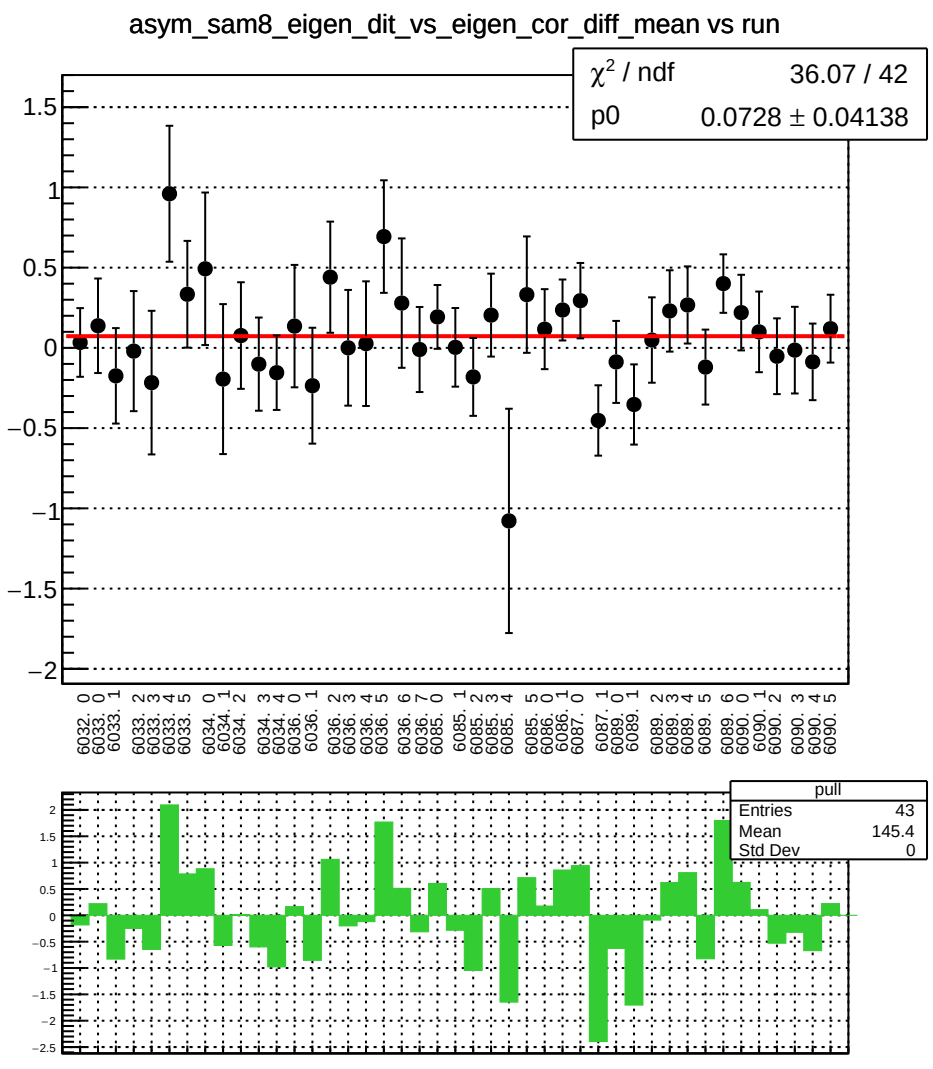

pull1D
Entries 43
Mean −0.002526
Std Dev 0.9251
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

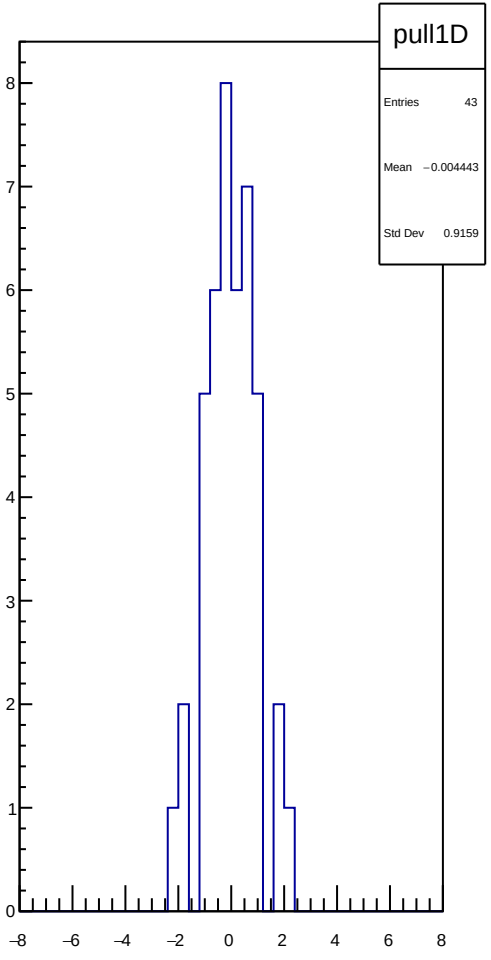

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.601e+04 / 42
p0 0.002048 ± 2.239e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

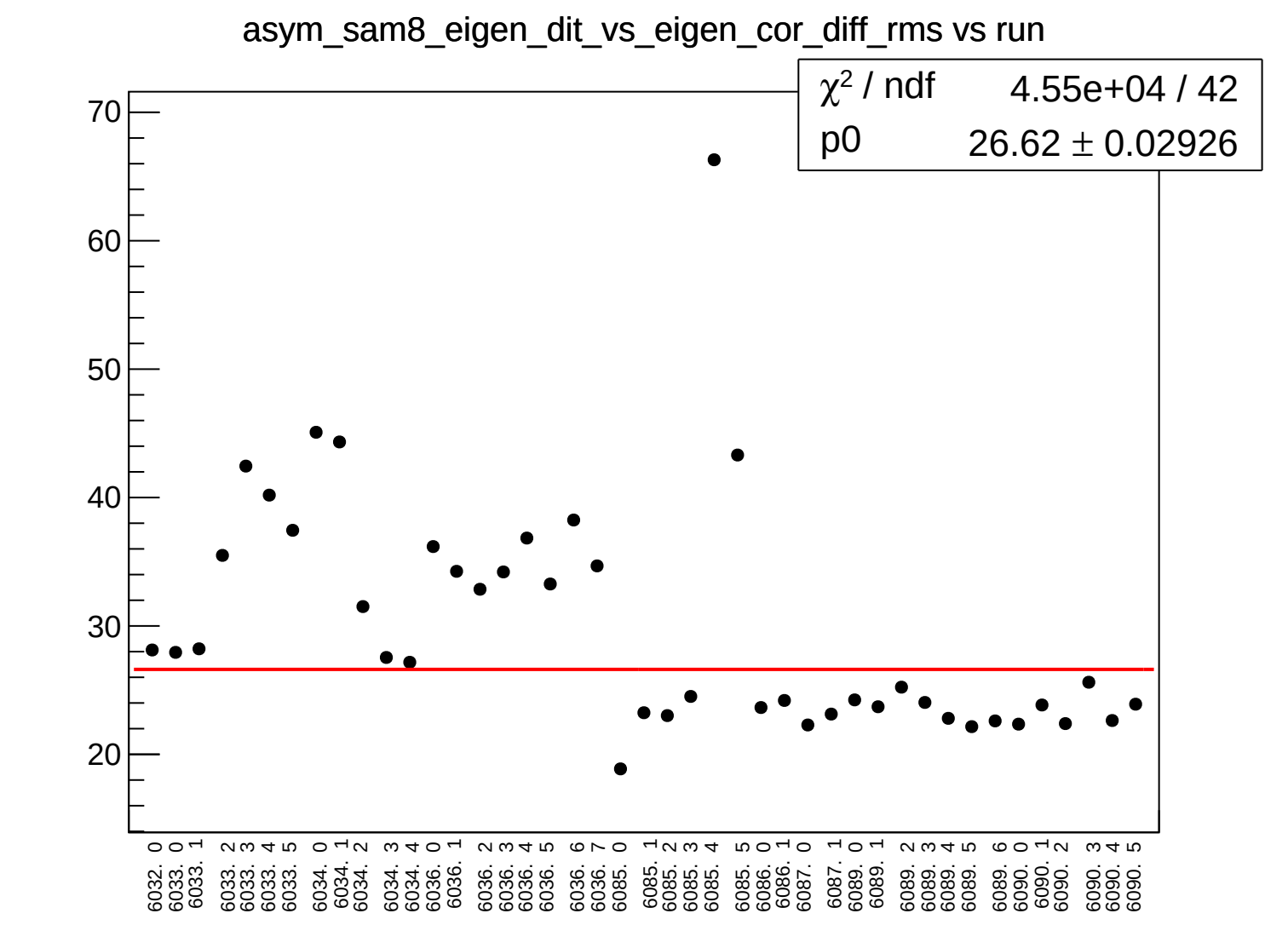

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.07 / 42
p0 0.0728 ± 0.04138
pull
Entries 43
Mean 145.4
Std Dev 0

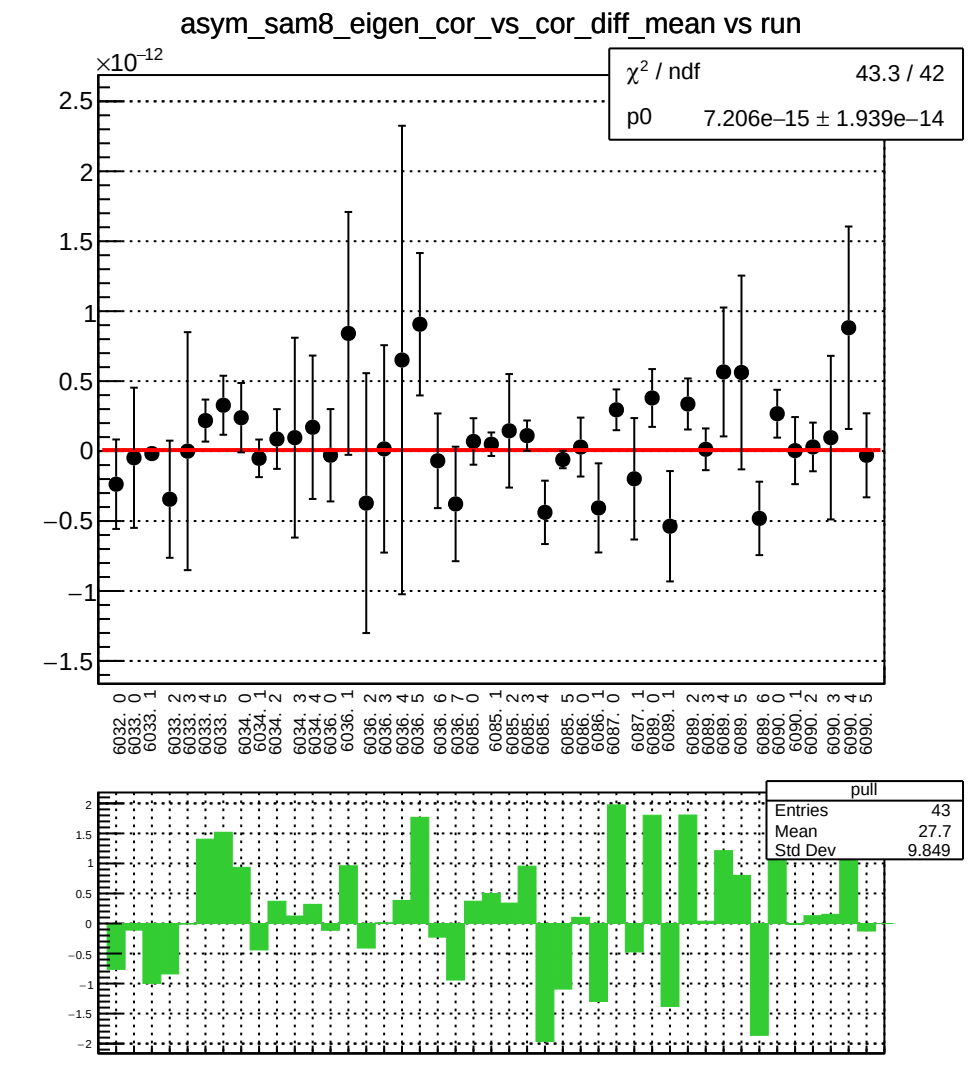

pull1D
Entries 43
Mean −0.004443
Std Dev 0.9159

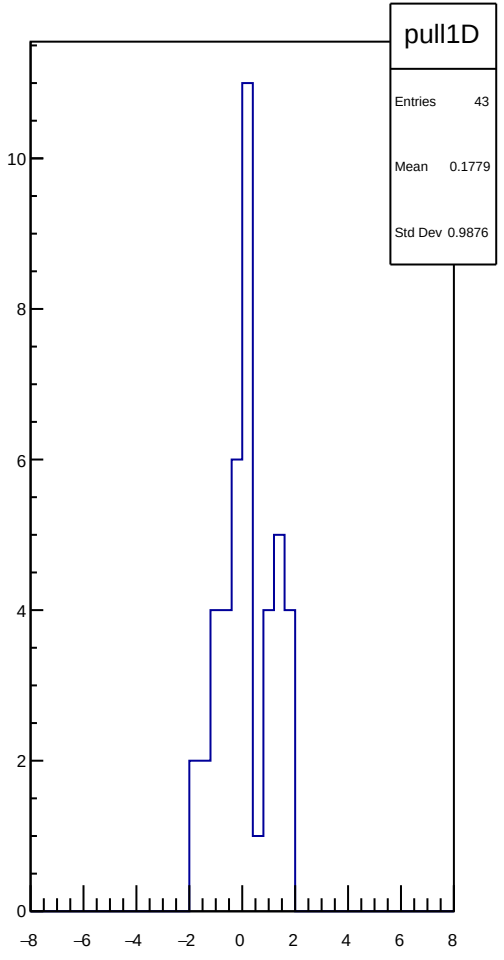

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.55e+04 / 42
p0 26.62 ± 0.02926
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

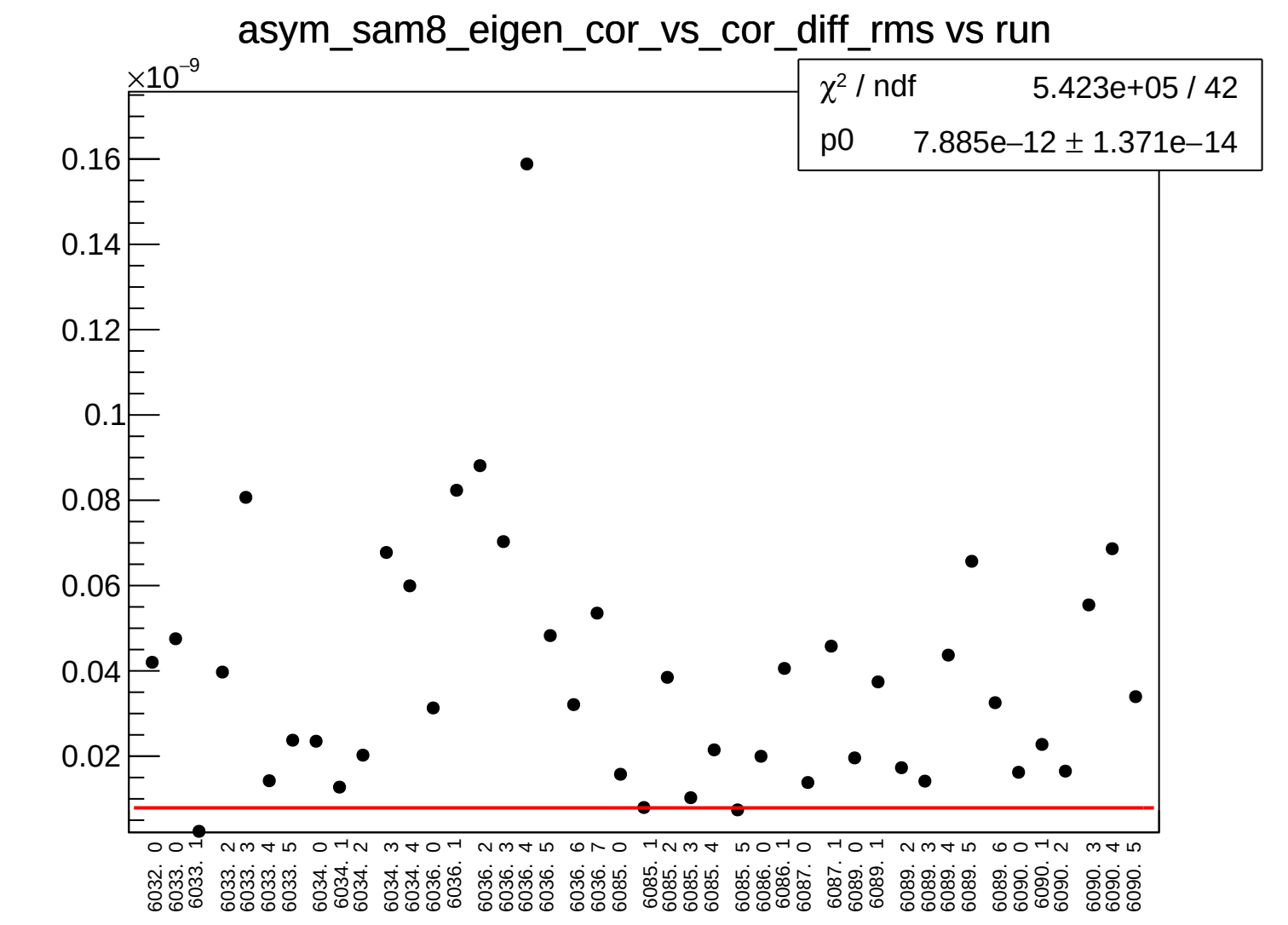

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.07 / 42
p0 0.0728 ± 0.04138
pull
Entries 43
Mean 145.4
Std Dev 0

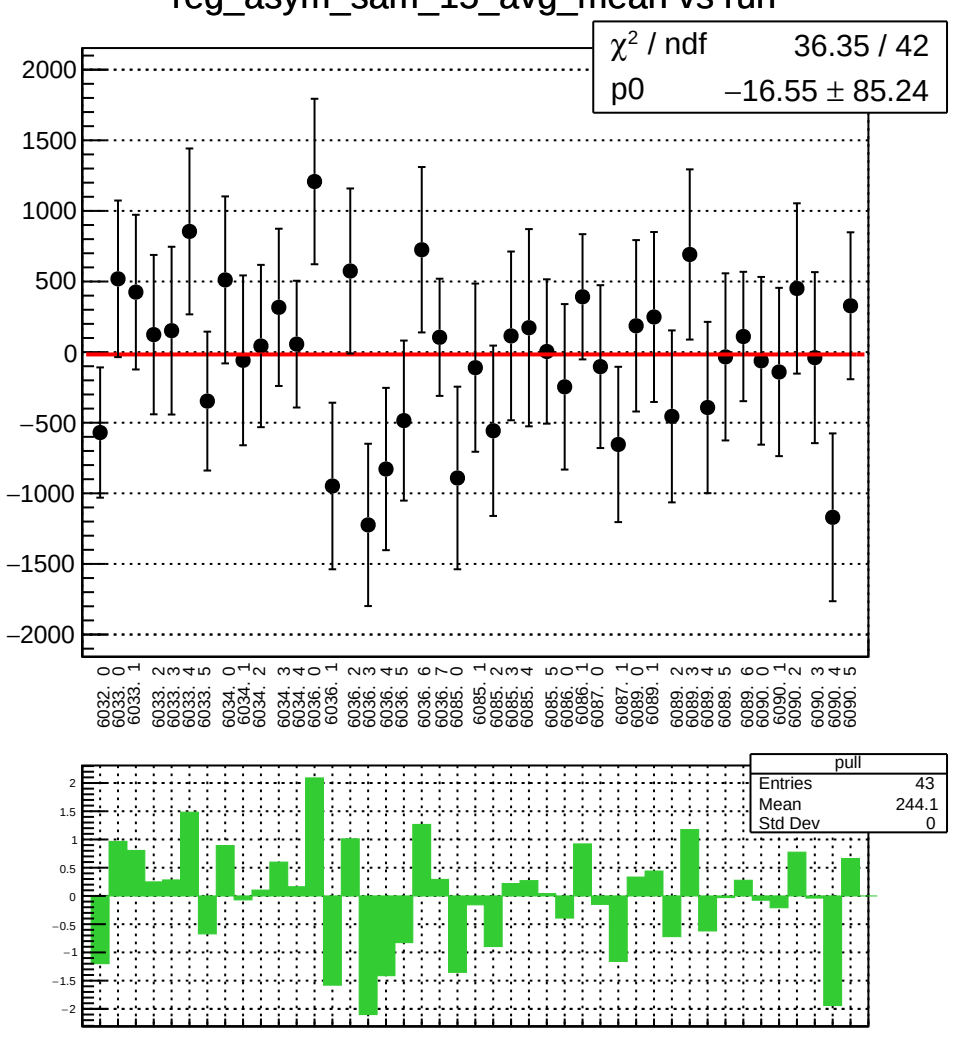

pull1D
Entries 43
Mean −0.004443
Std Dev 0.9159

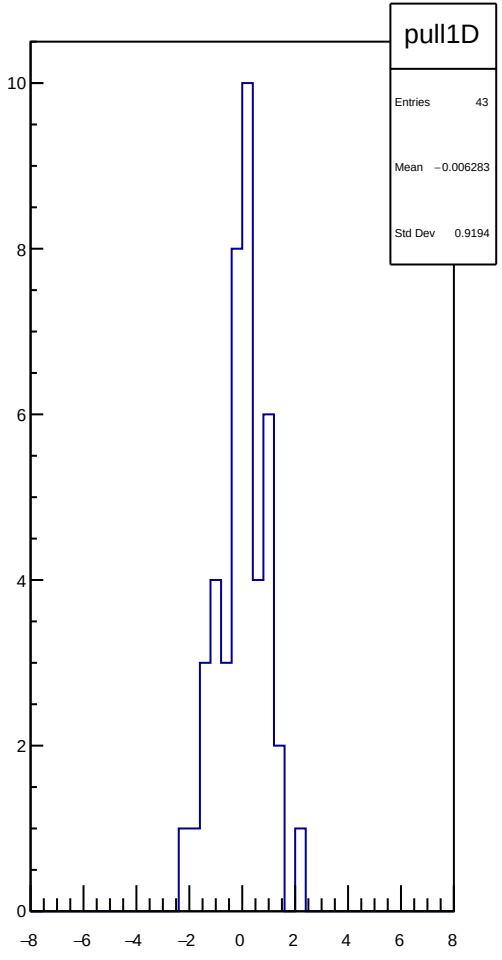

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.55e+04 / 42
p0 26.62 ± 0.02926
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

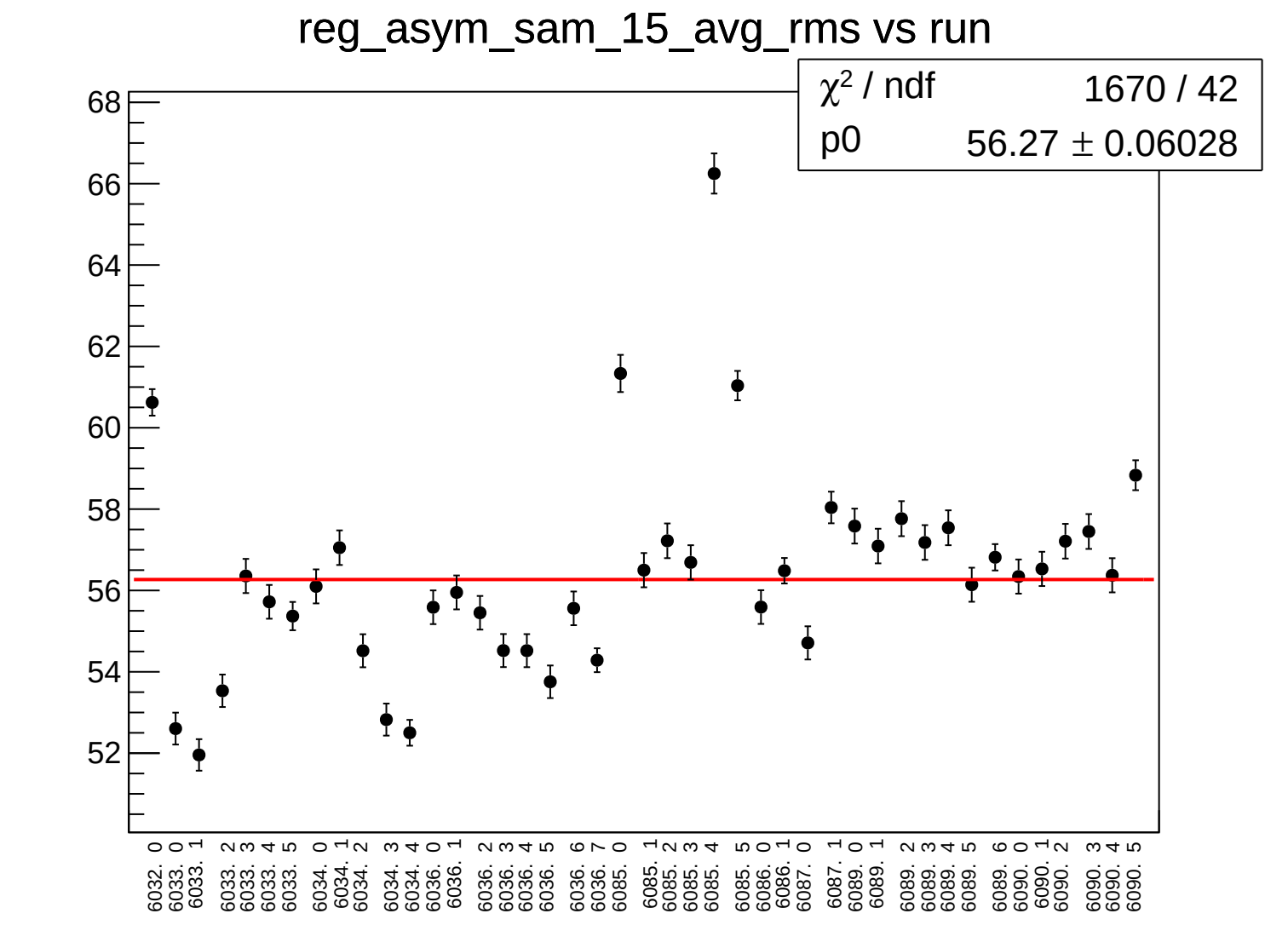

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 43.3 / 42
p0 7.206e−15 ± 1.939e−14
pull
Entries 43
Mean 27.7
Std Dev 9.849

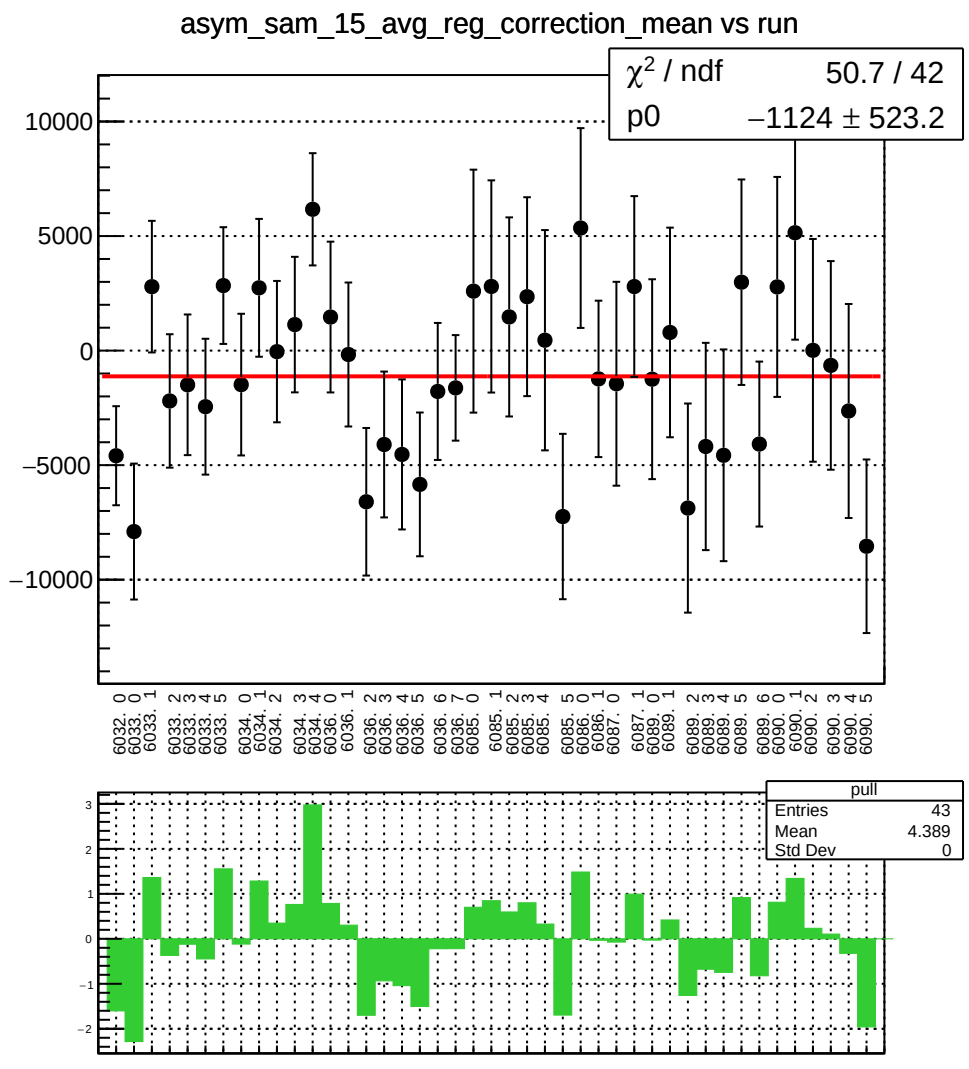

pull1D
Entries 43
Mean 0.1779
Std Dev 0.9876

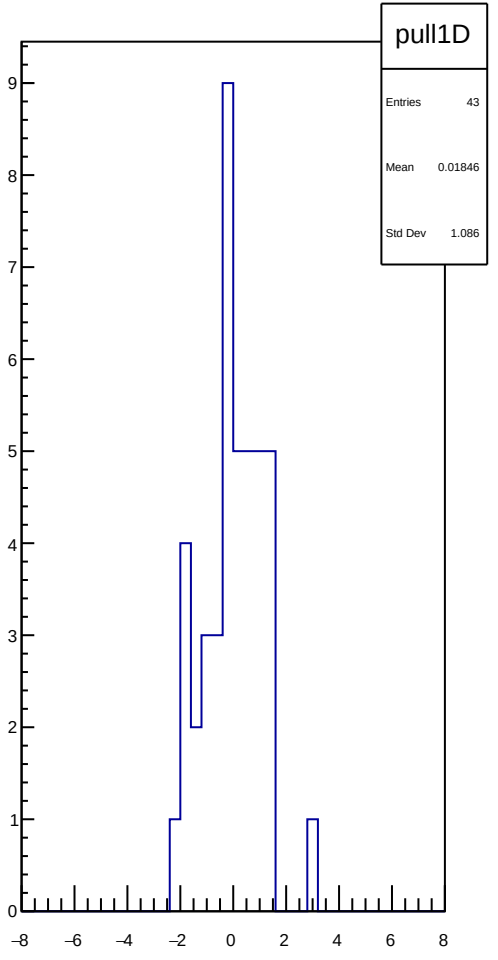

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.423e+05 / 42
p0 7.885e−12 ± 1.371e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

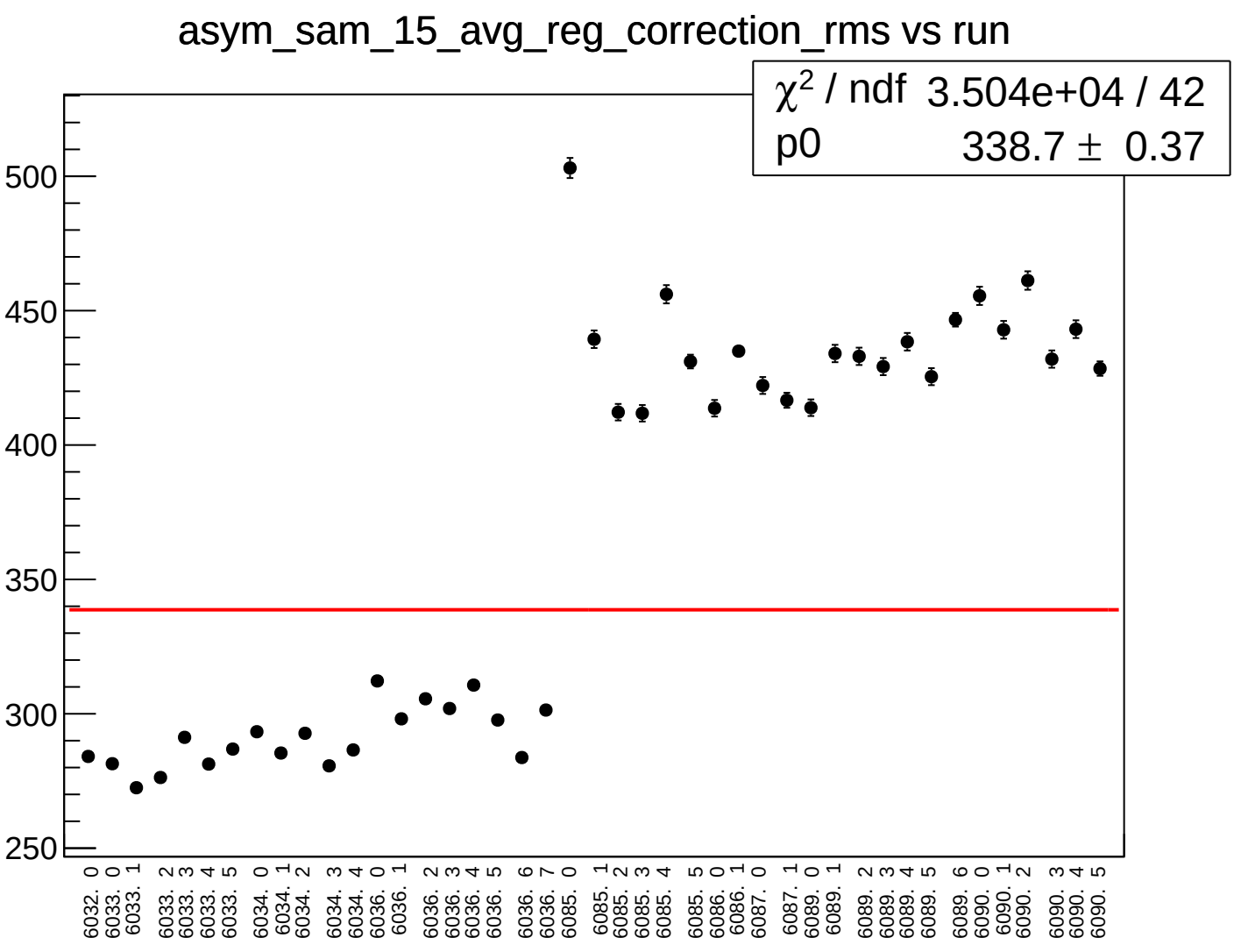

reg_asym_sam_15_avg_mean vs run
χ² / ndf 36.35 / 42
p0 −16.55 ± 85.24
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 244.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

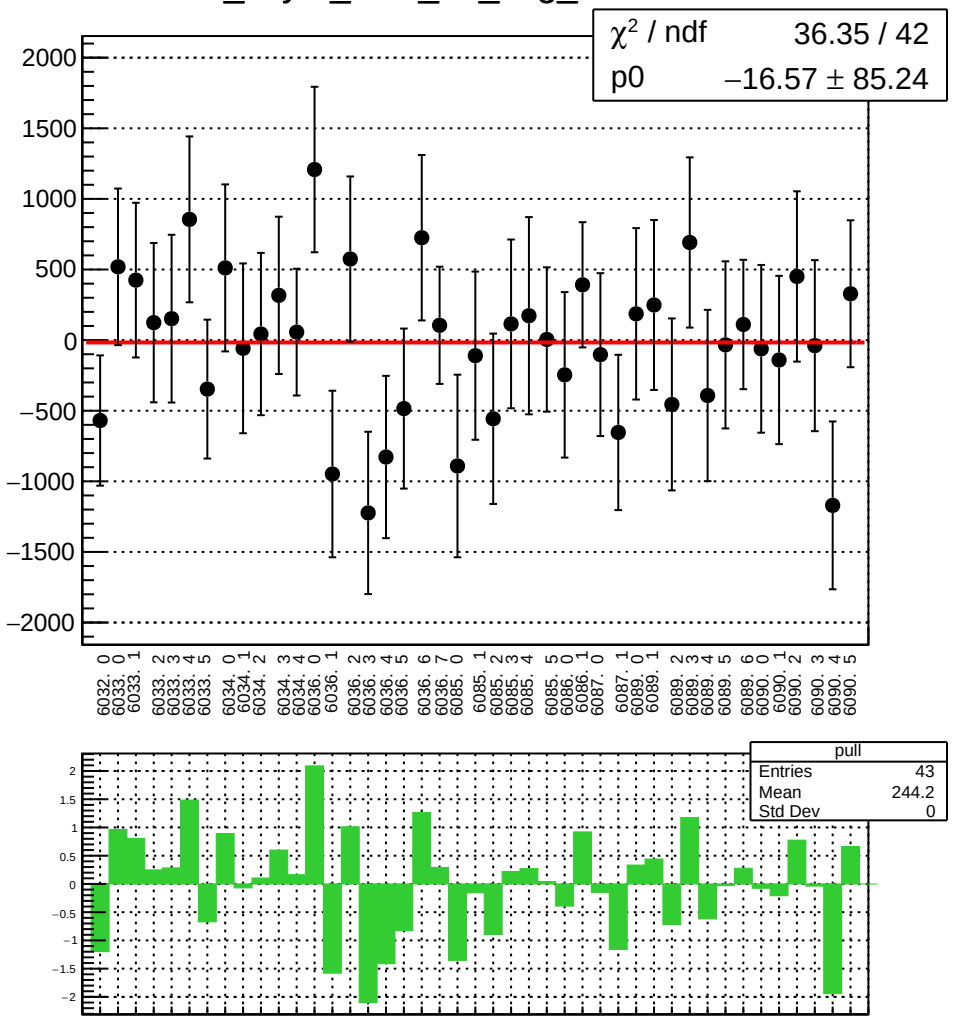

pull1D
Entries 43
Mean −0.006283
Std Dev 0.9194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

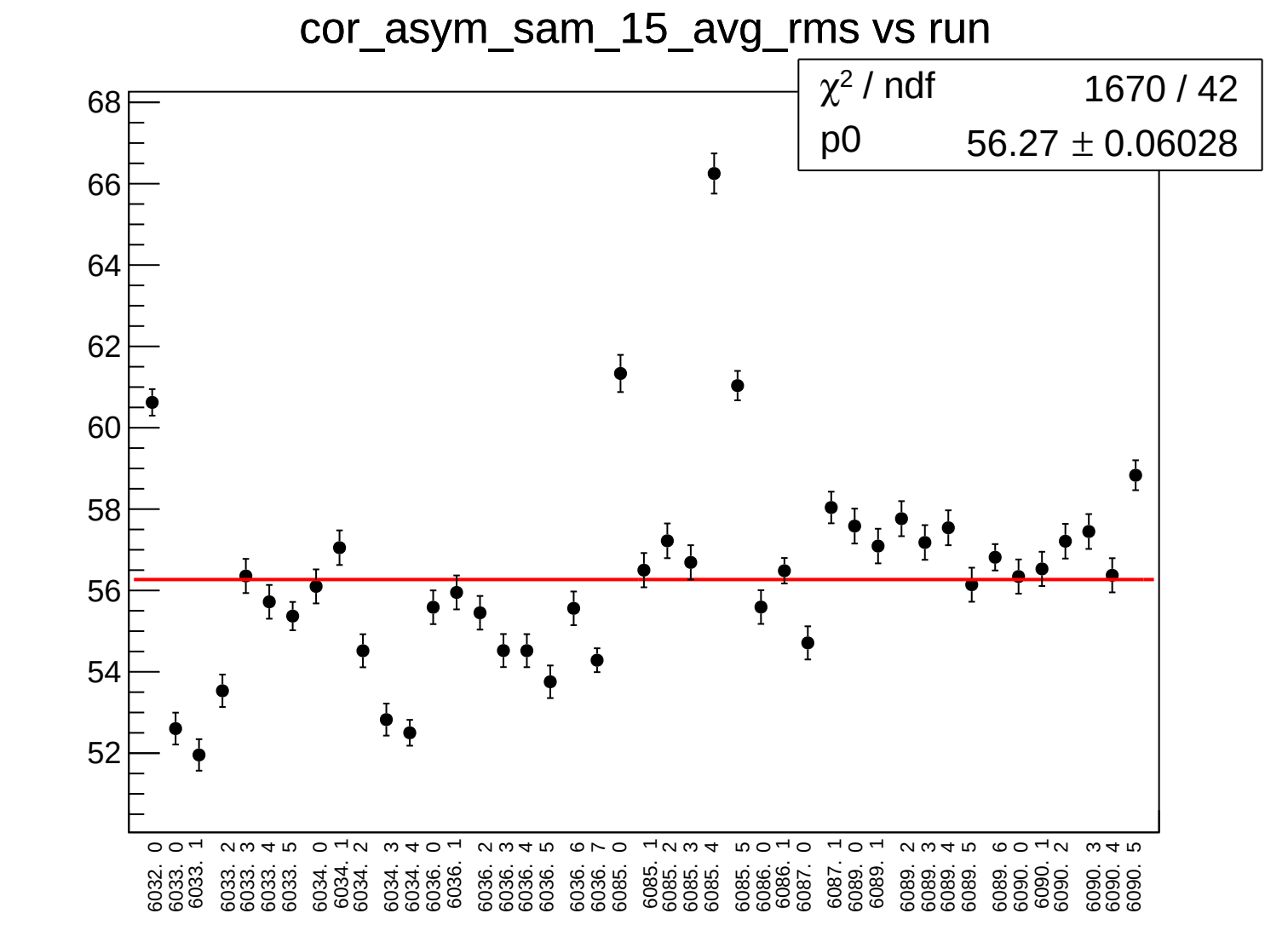

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1670 / 42
p0 56.27 ± 0.06028
68
66
64
62
60
58
56
54
52
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 50.7 / 42
p0 −1124 ± 523.2
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.389
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.01846
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3.504e+04 / 42
p0 338.7 ± 0.37
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_15_avg_mean vs run
χ² / ndf 36.35 / 42
p0 −16.57 ± 85.24
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 244.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.006285
Std Dev 0.9194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_avg_rms vs run
χ² / ndf 1670 / 42
p0 56.27 ± 0.06028
68
66
64
62
60
58
56
54
52
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
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6090. 2
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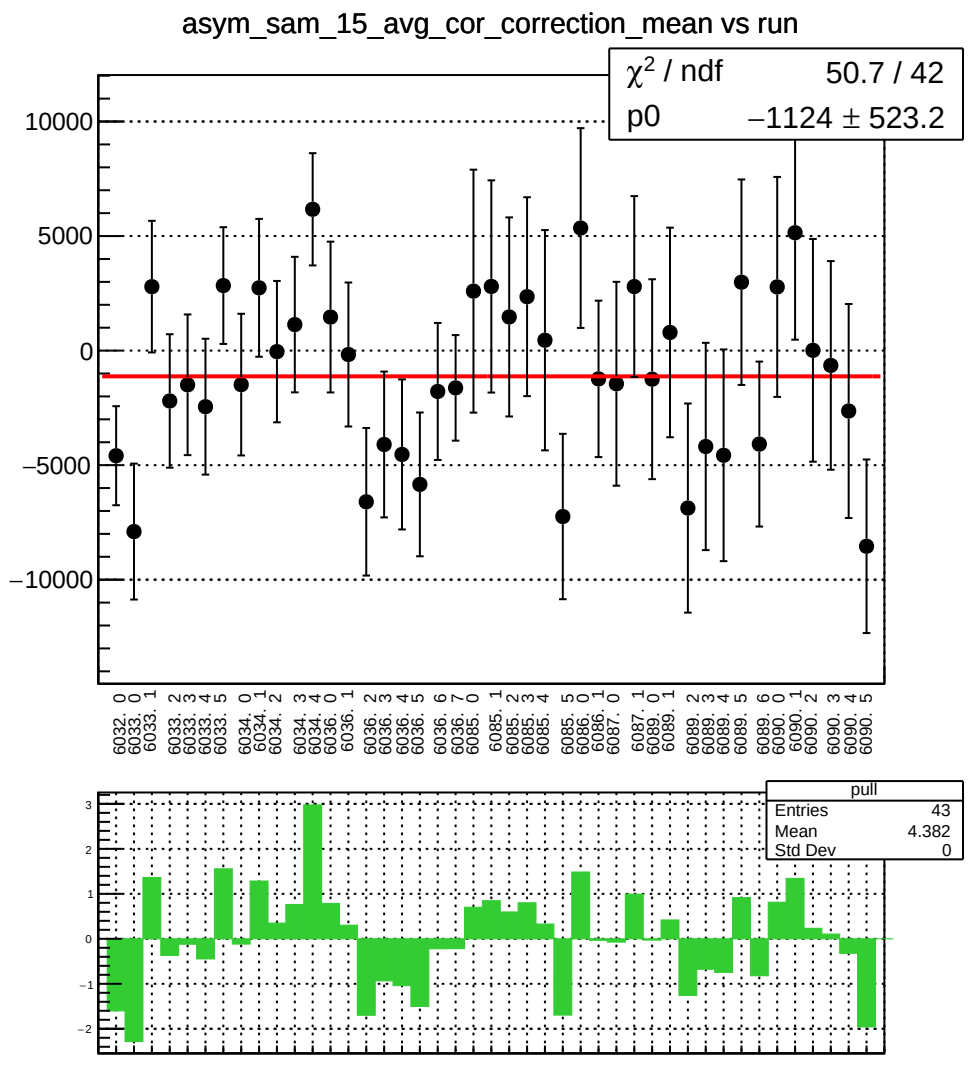
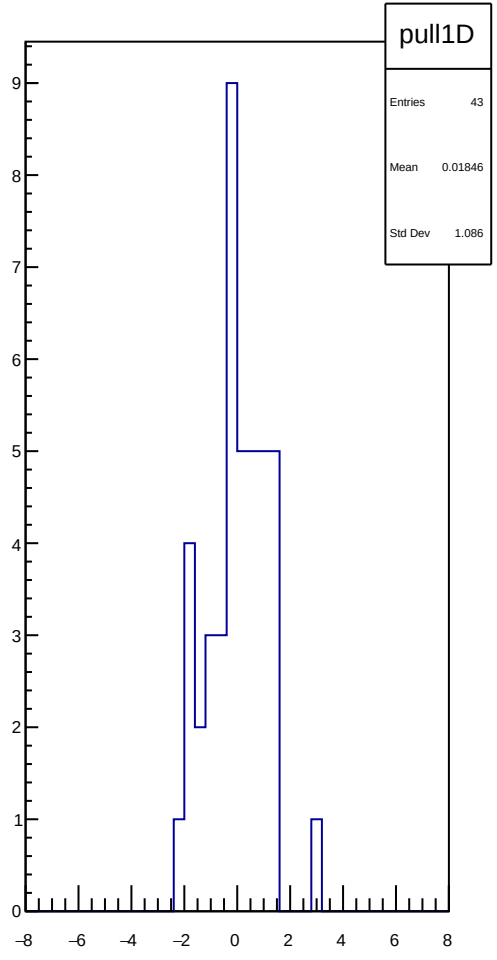
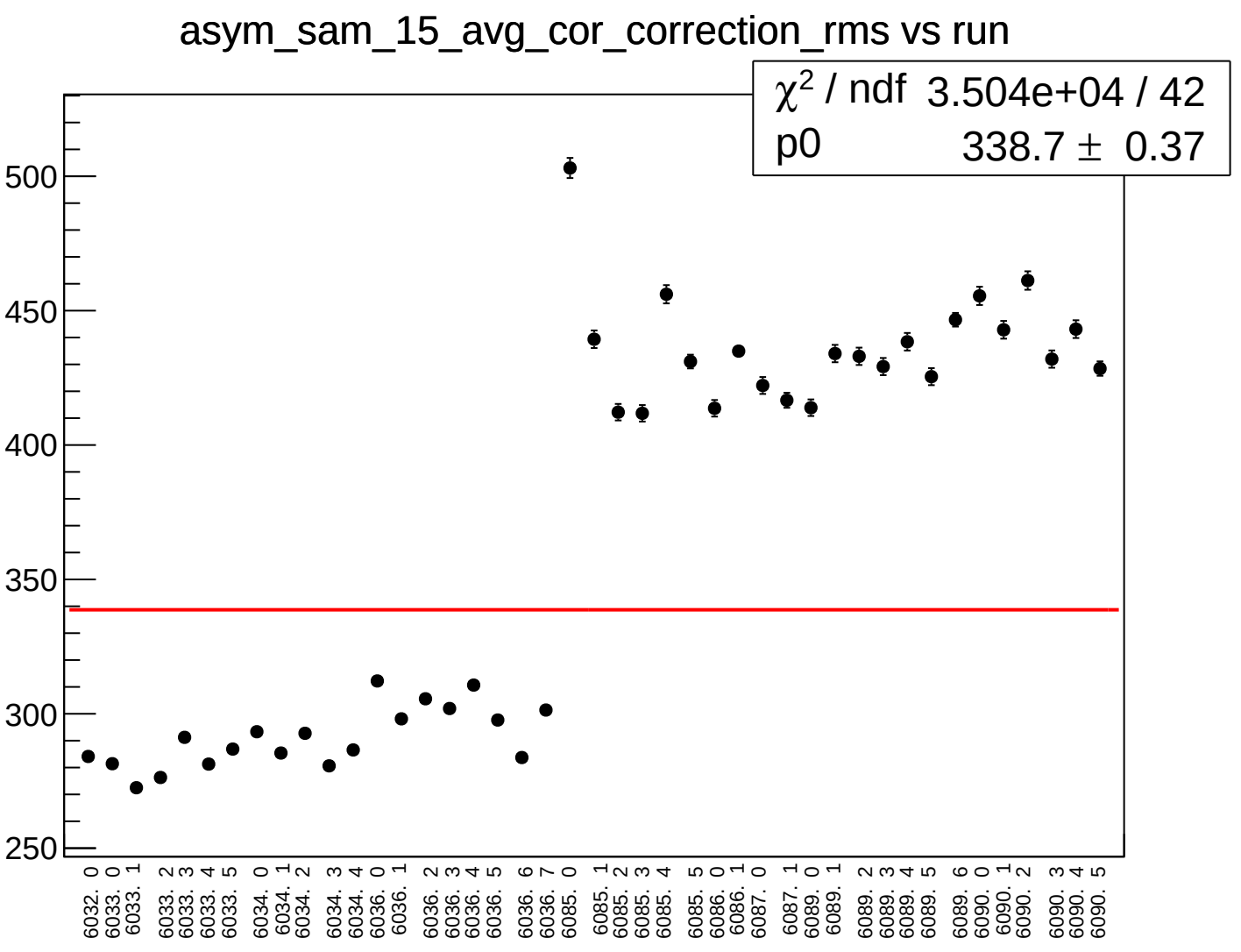
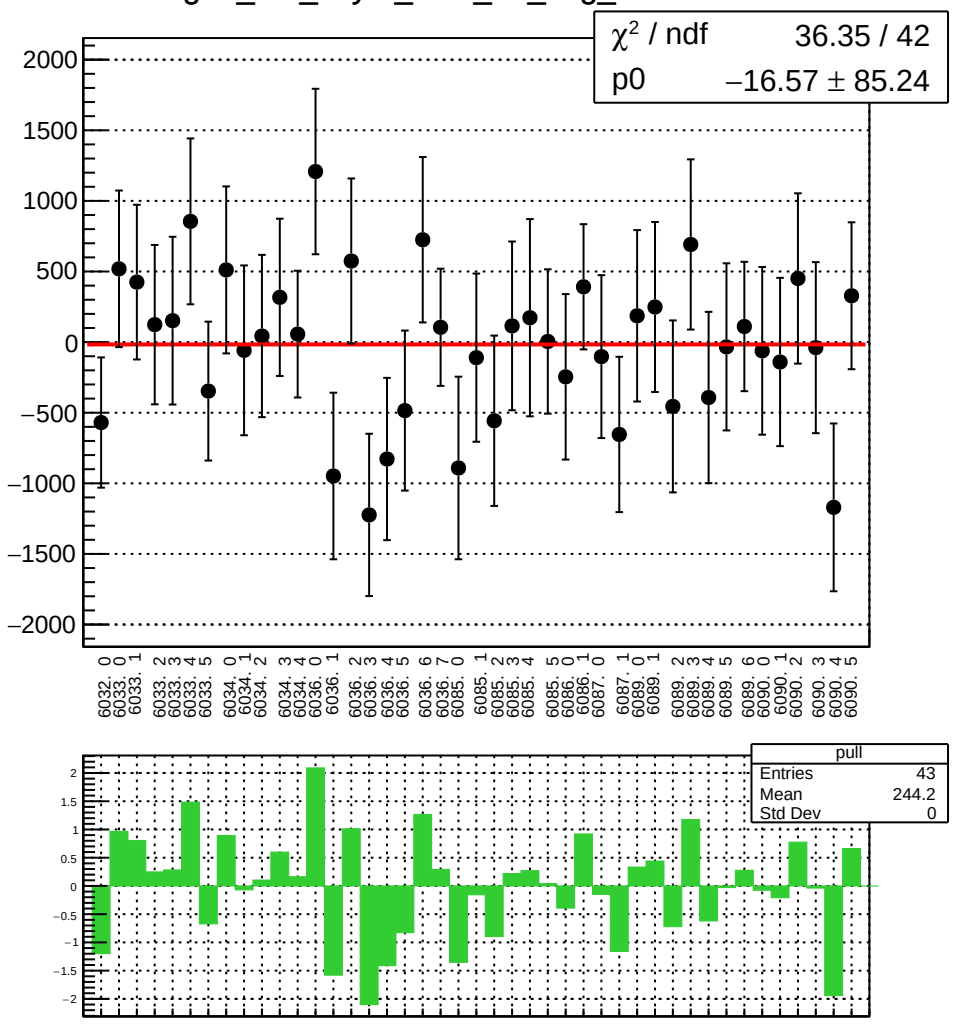
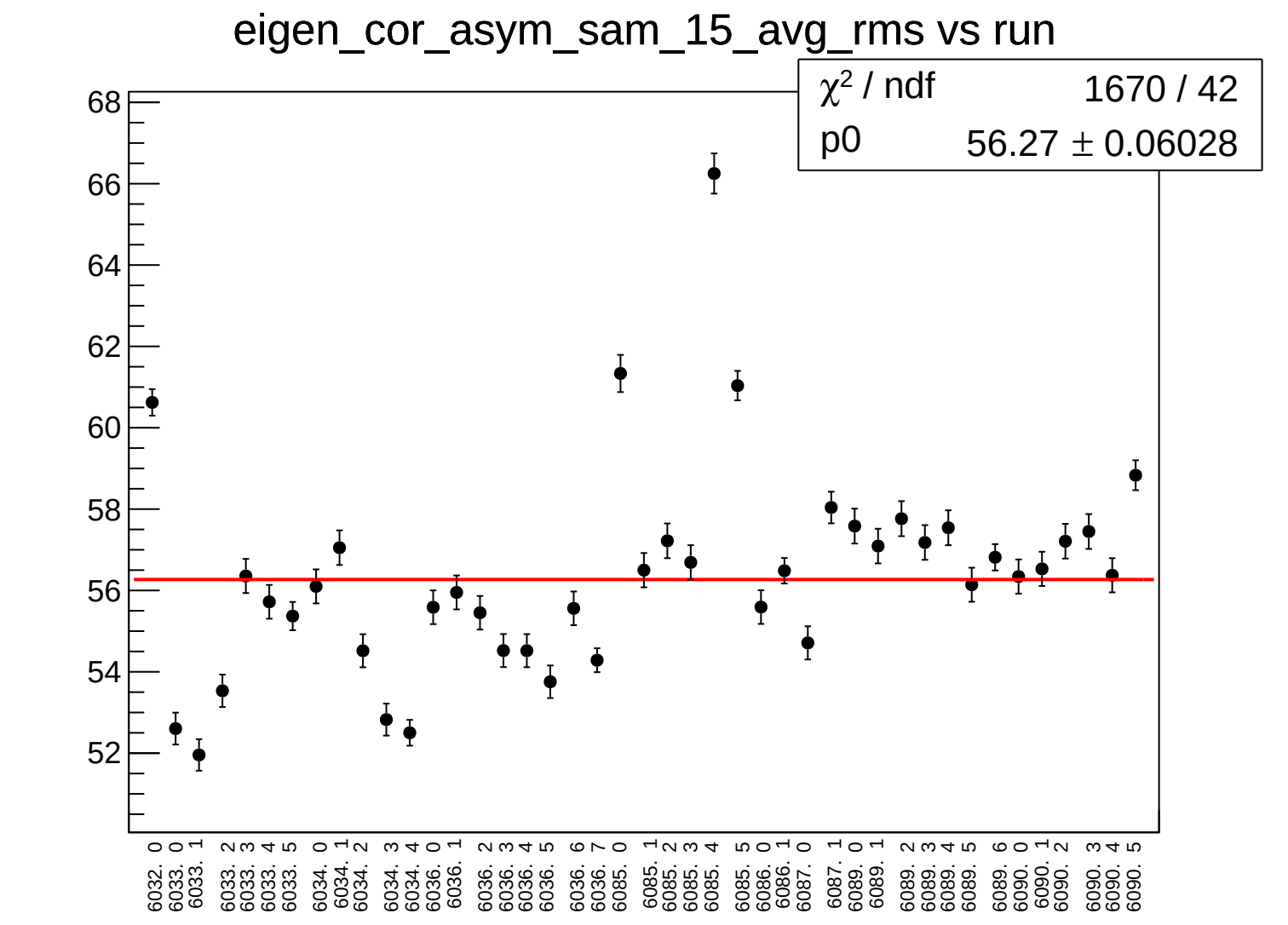
6090. 4
6090. 5


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 50.7 / 42
p0 −1124 ± 523.2
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.382
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.01846
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3.504e+04 / 42
p0 338.7 ± 0.37
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 36.35 / 42
p0 −16.57 ± 85.24
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 244.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.006285
Std Dev 0.9194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1670 / 42
p0 56.27 ± 0.06028
68
66
64
62
60
58
56
54
52
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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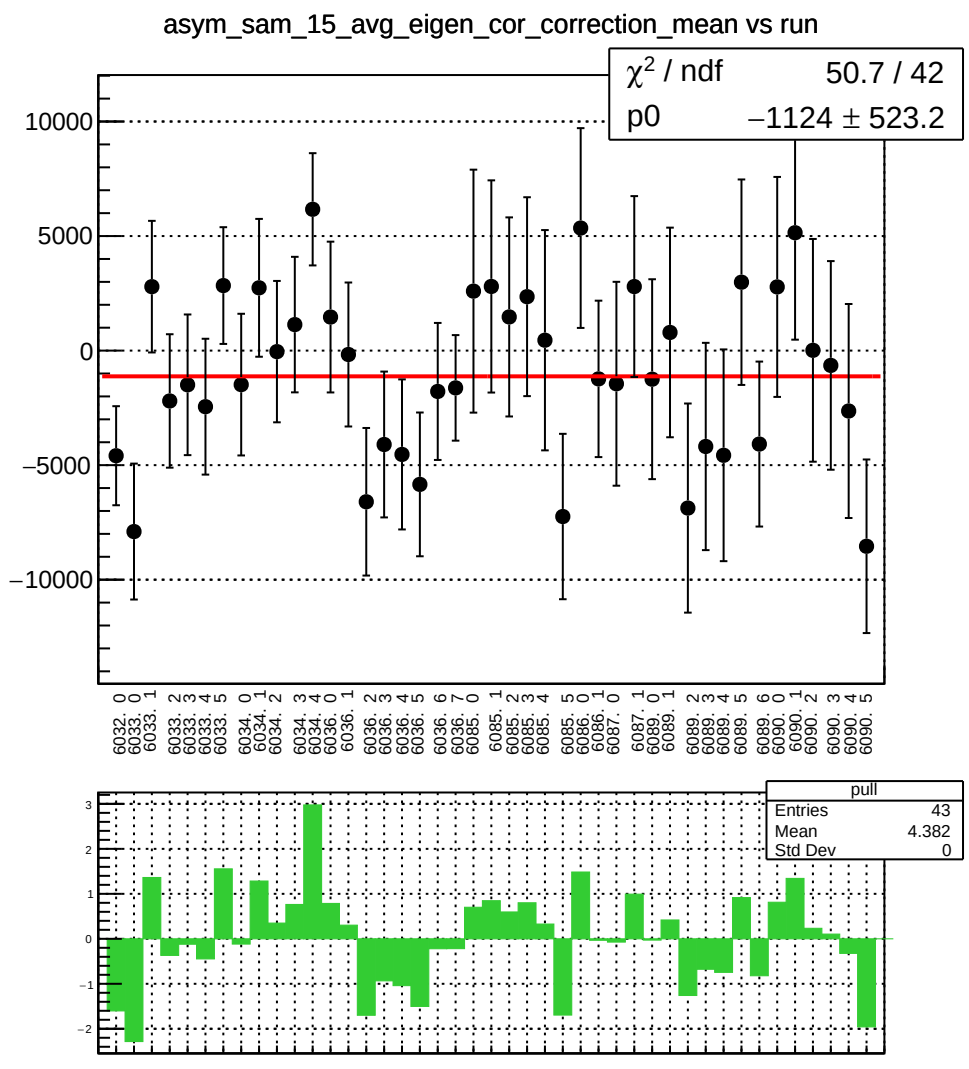
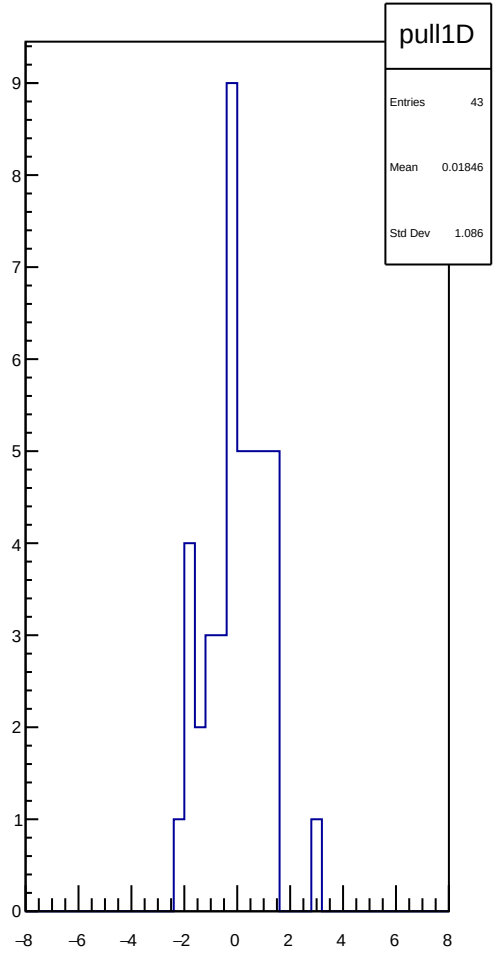
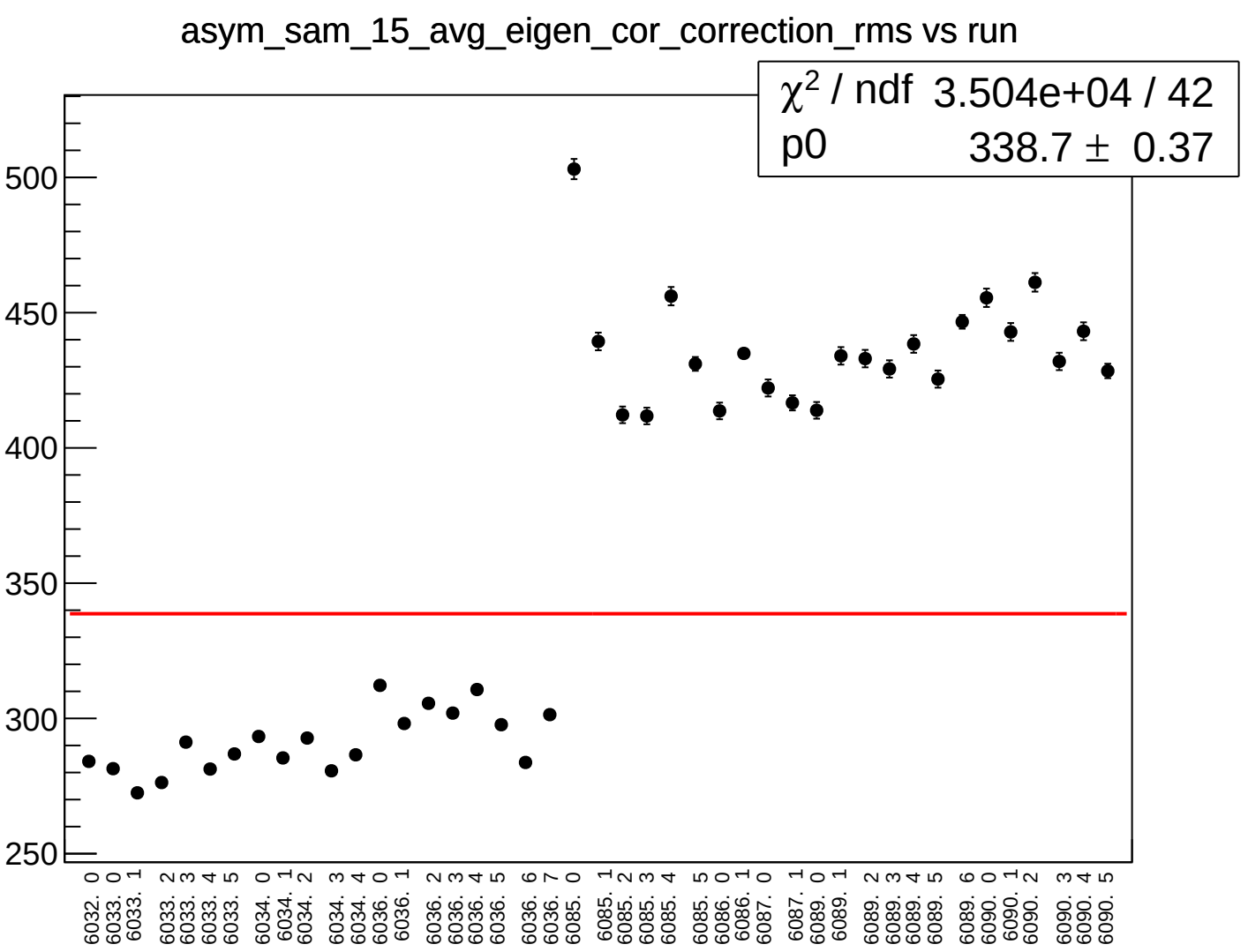
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.7 / 42
p0 −1124 ± 523.2
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.382
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.01846
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.504e+04 / 42
p0 338.7 ± 0.37
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
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6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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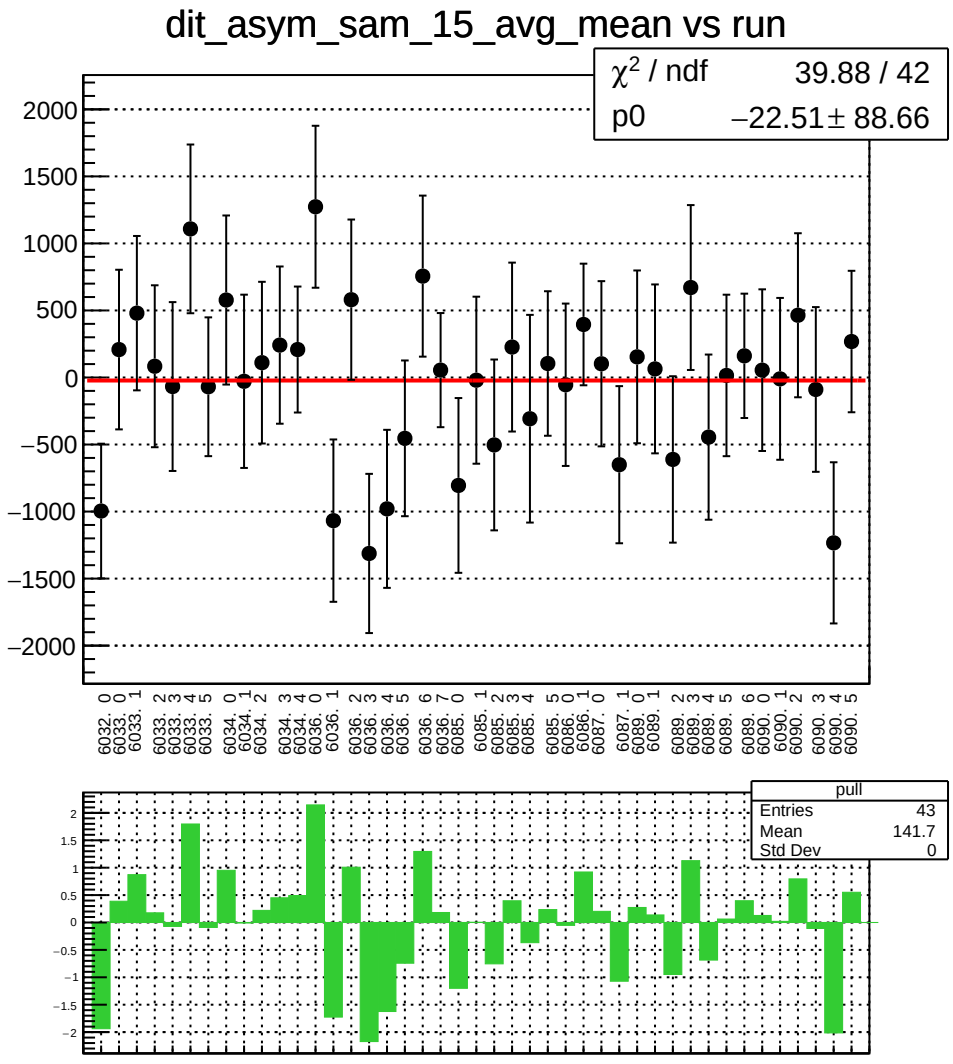
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


dit_asym_sam_15_avg_mean vs run
χ² / ndf 39.88 / 42
p0 −22.51 ± 88.66
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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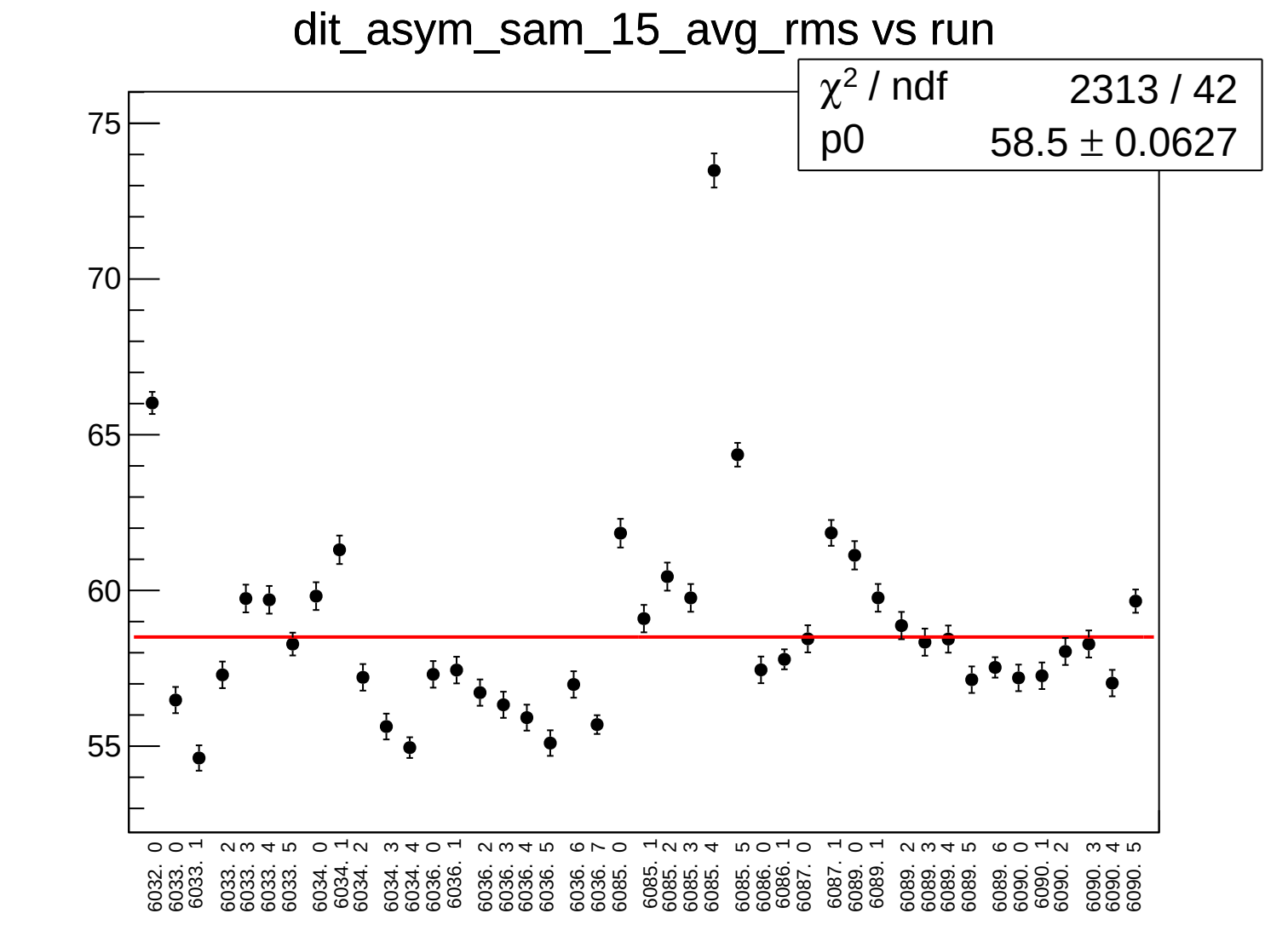
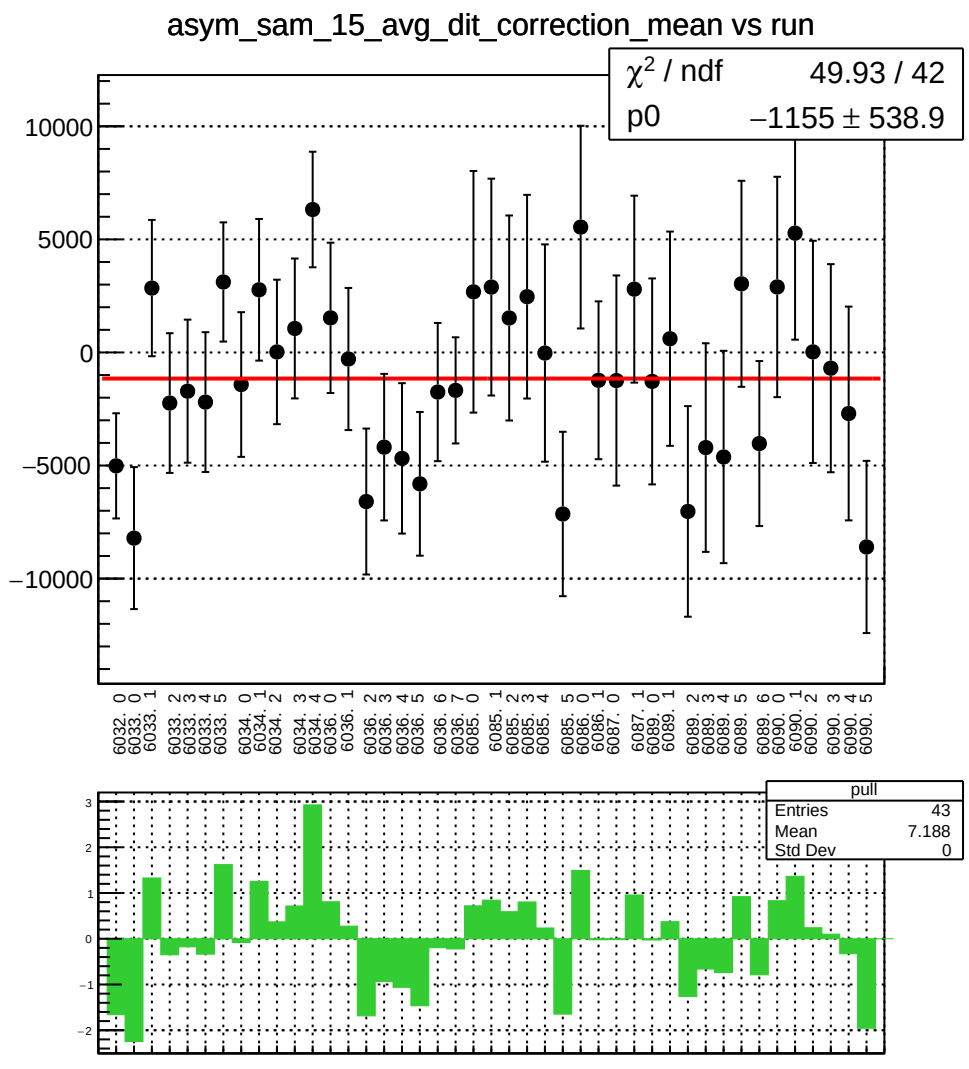
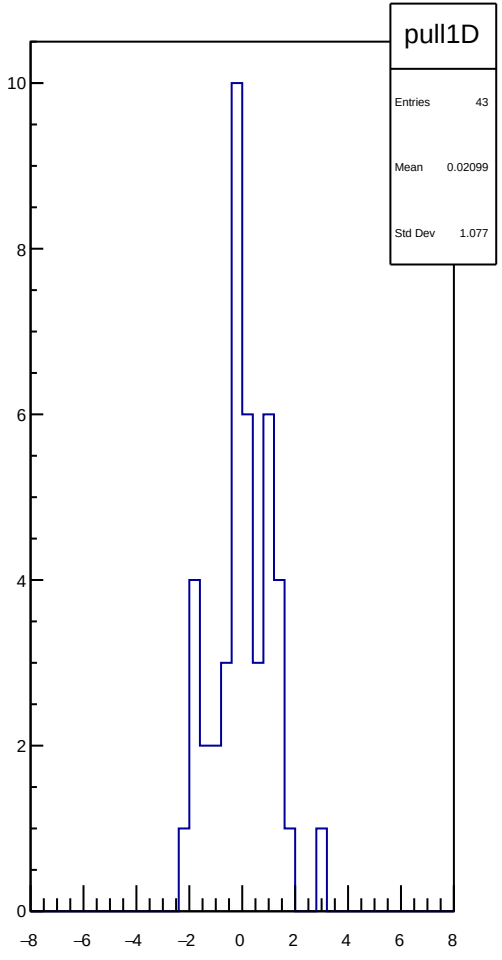
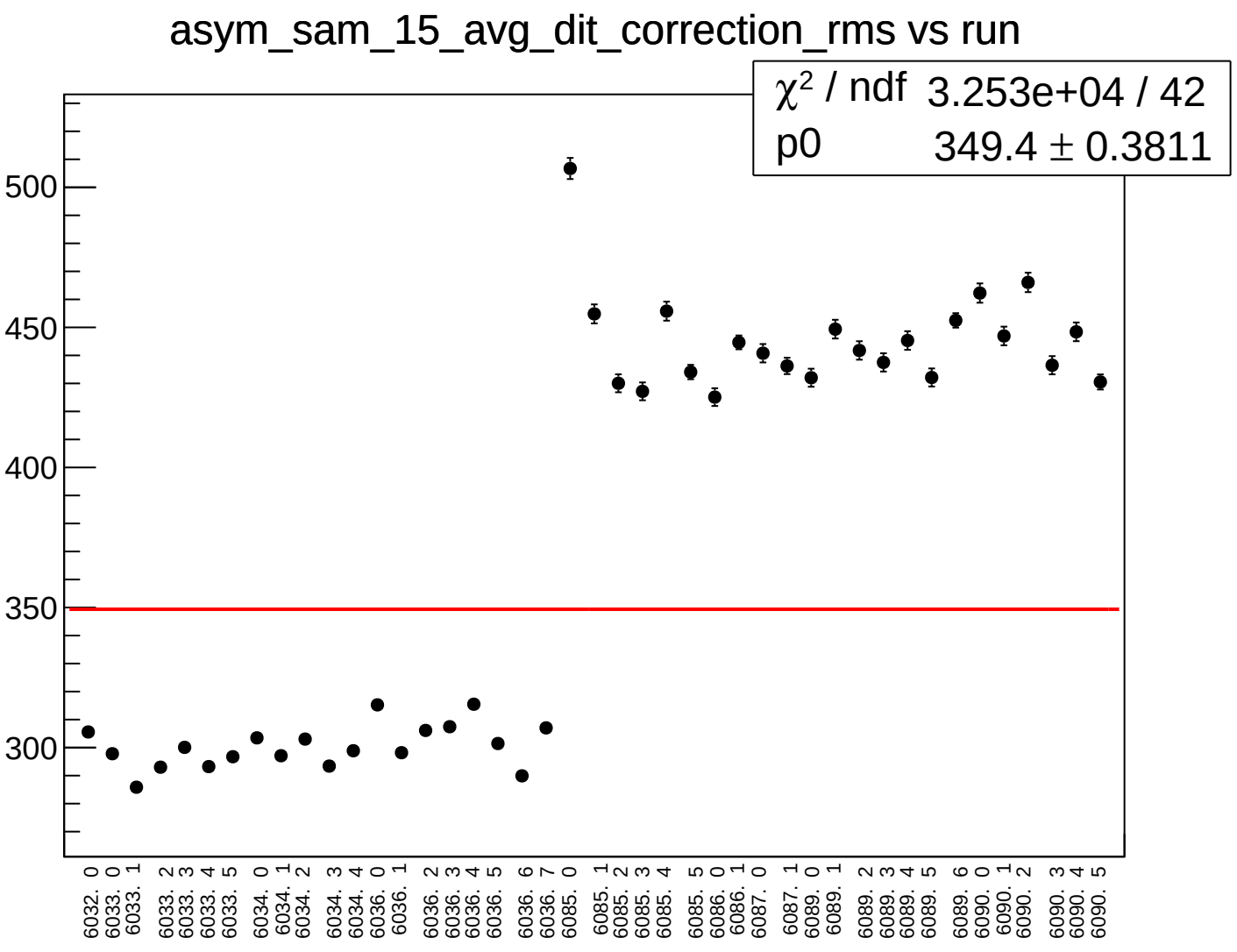
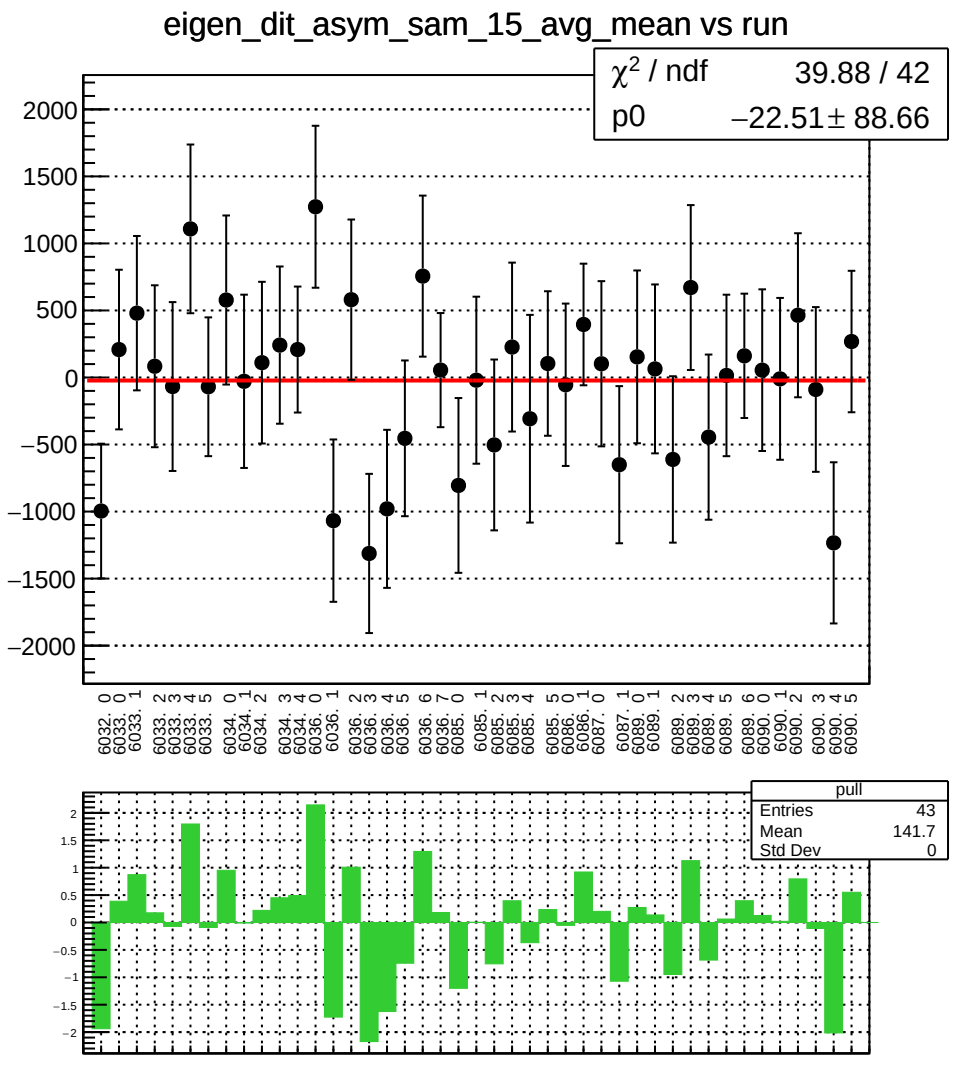
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 141.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.008018
Std Dev 0.9631
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

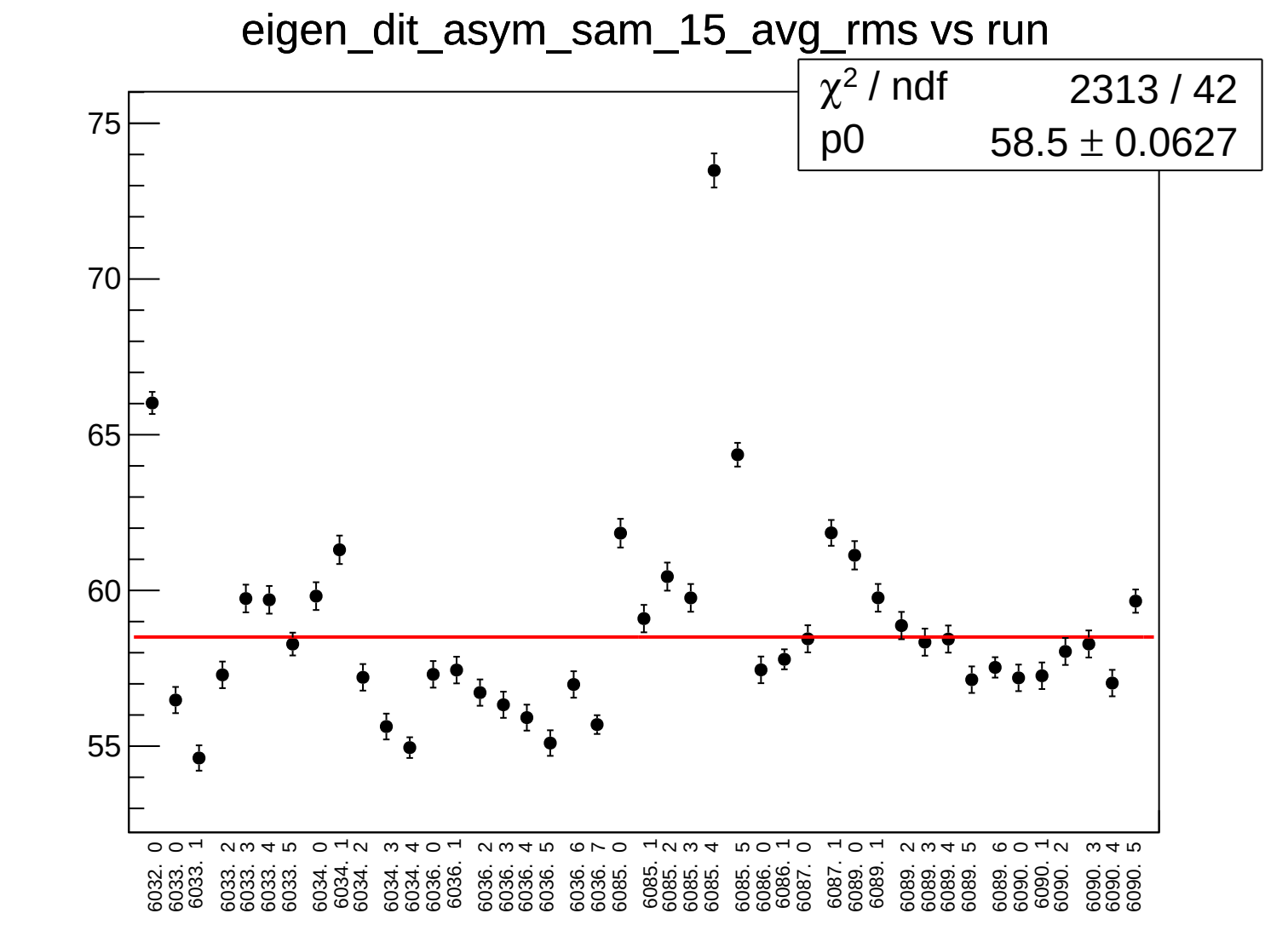

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2313 / 42
p0 58.5 ± 0.0627
75
70
65
60
55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

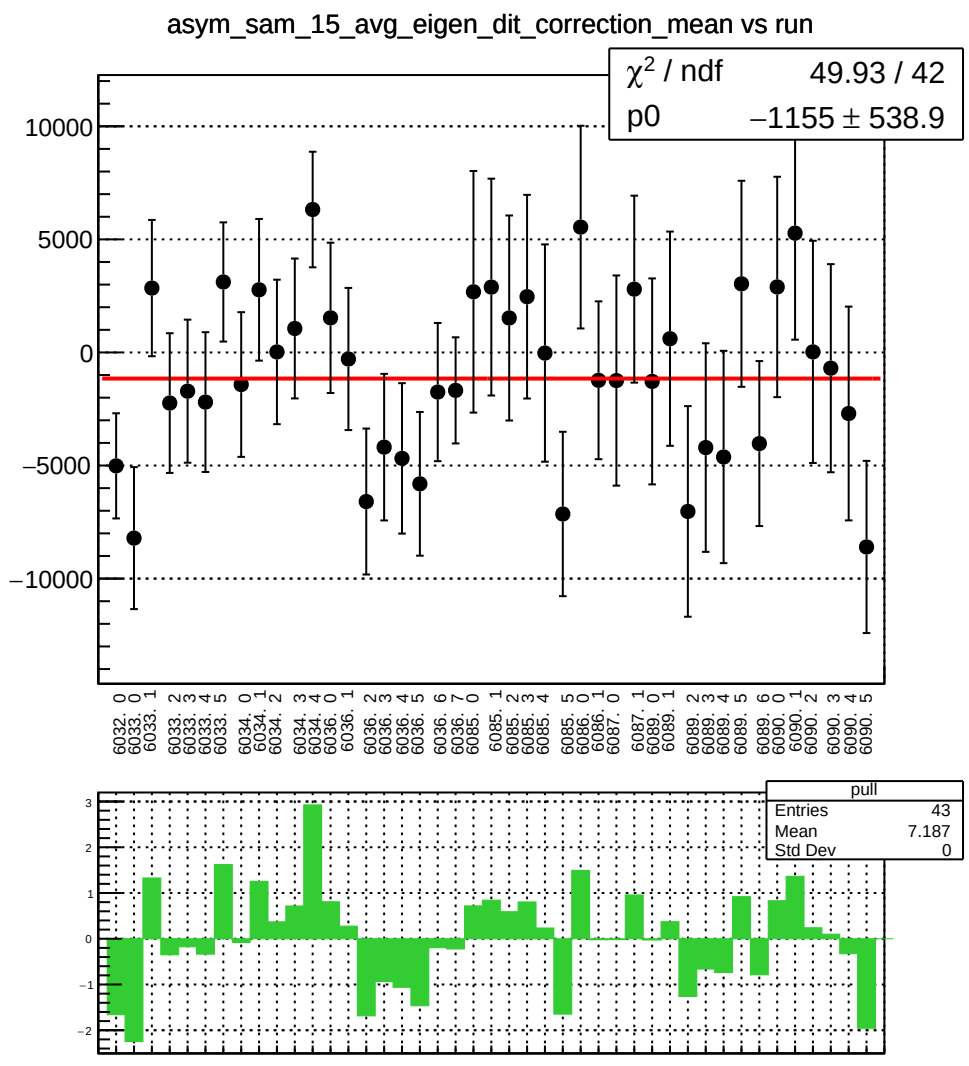

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 49.93 / 42
p0 −1155 ± 538.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.188
Std Dev 0
3
2
1
0
−1
−2

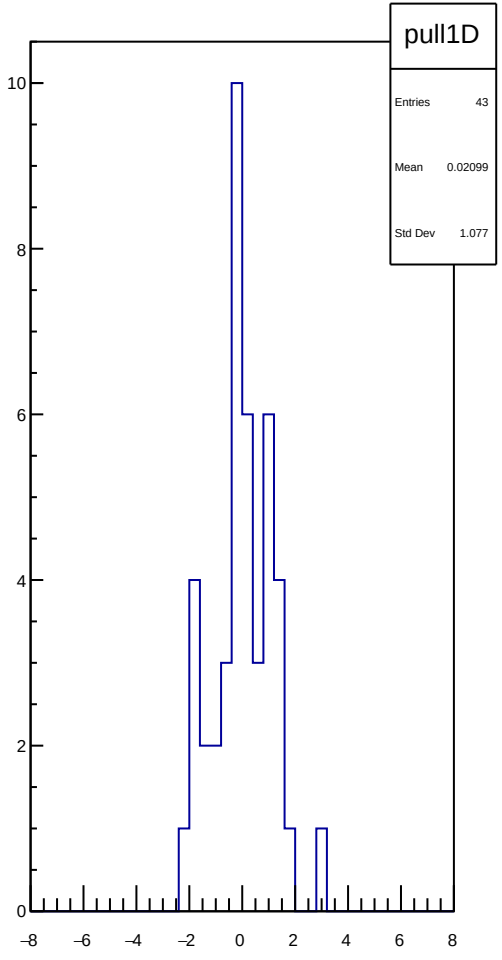

pull1D
Entries 43
Mean 0.02099
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

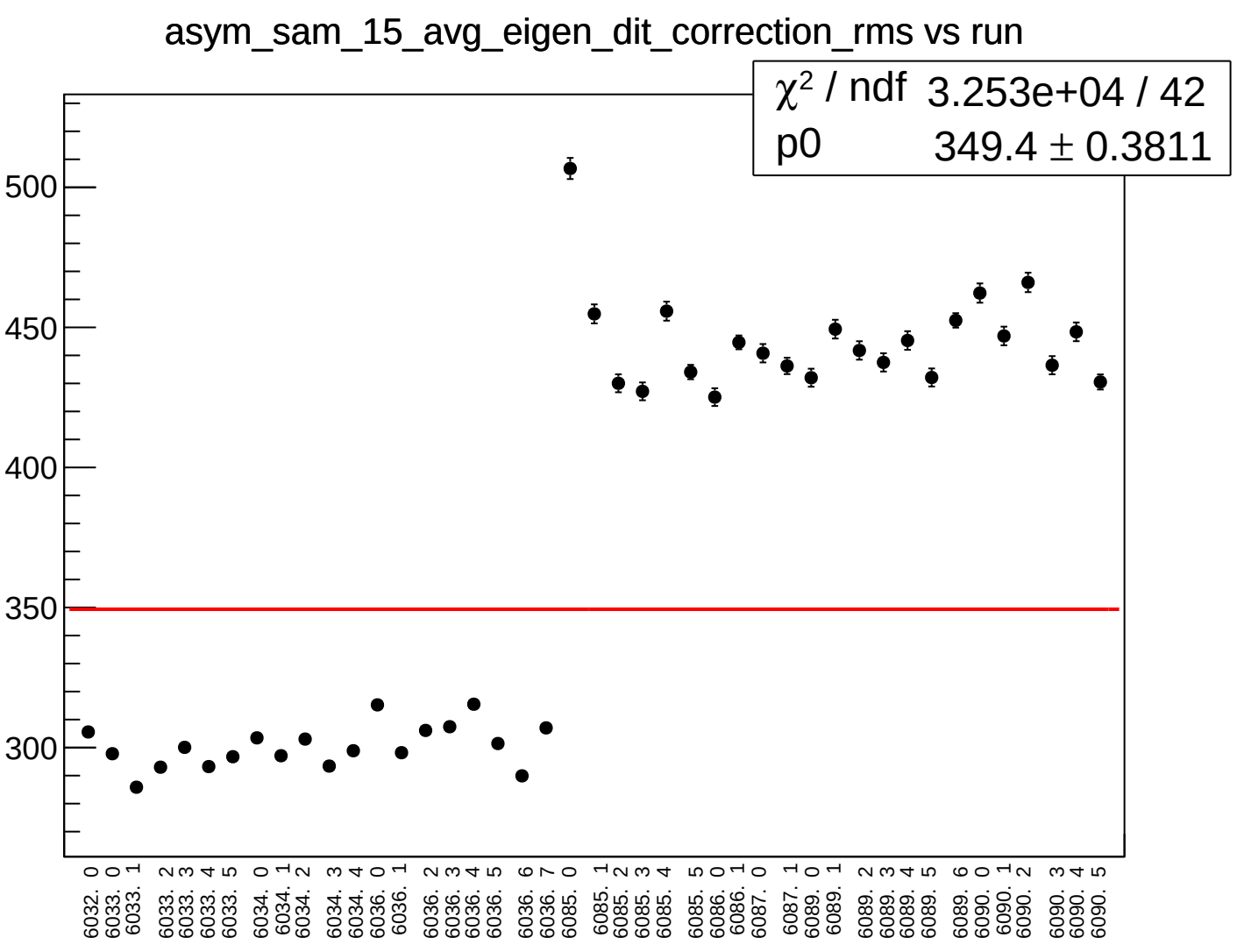

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3.253e+04 / 42
p0 349.4 ± 0.3811
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

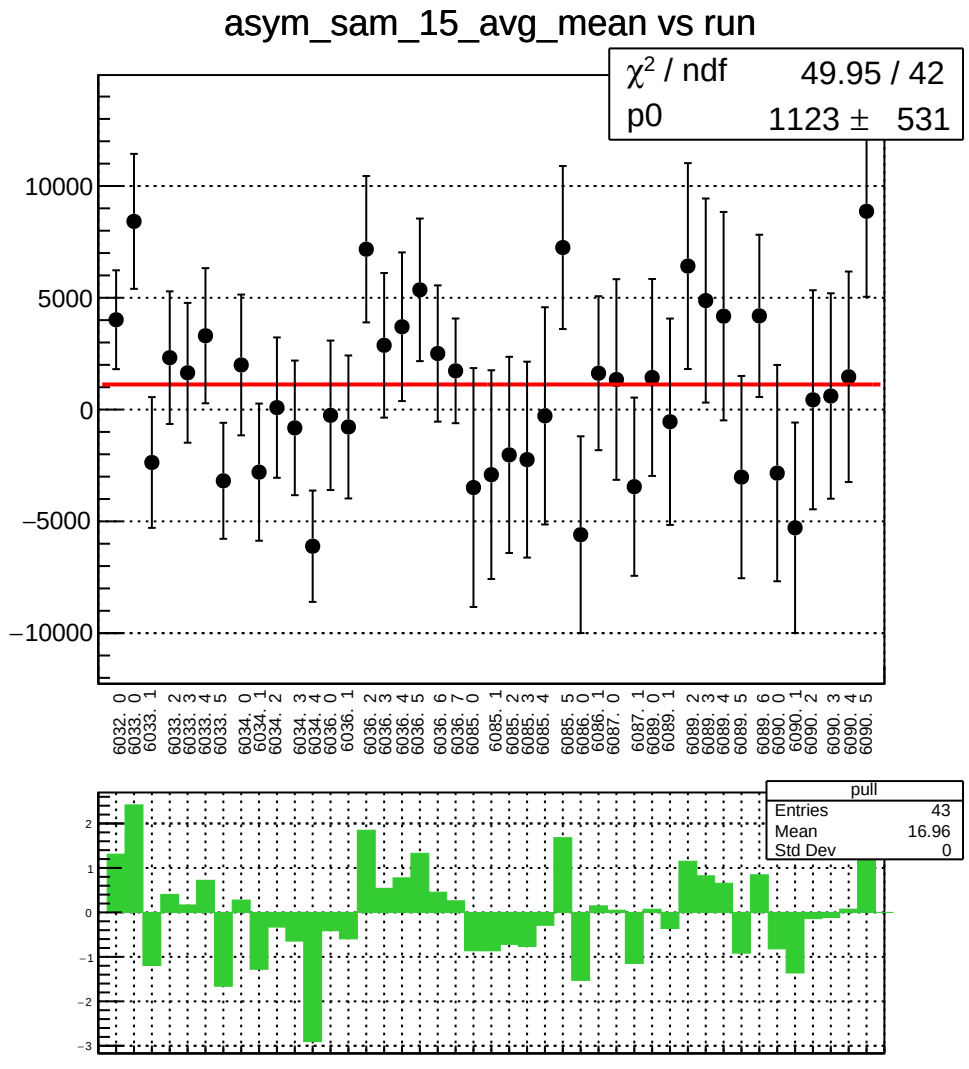

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 39.88 / 42
p0 −22.51 ± 88.66
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 141.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.008018
Std Dev 0.9631
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

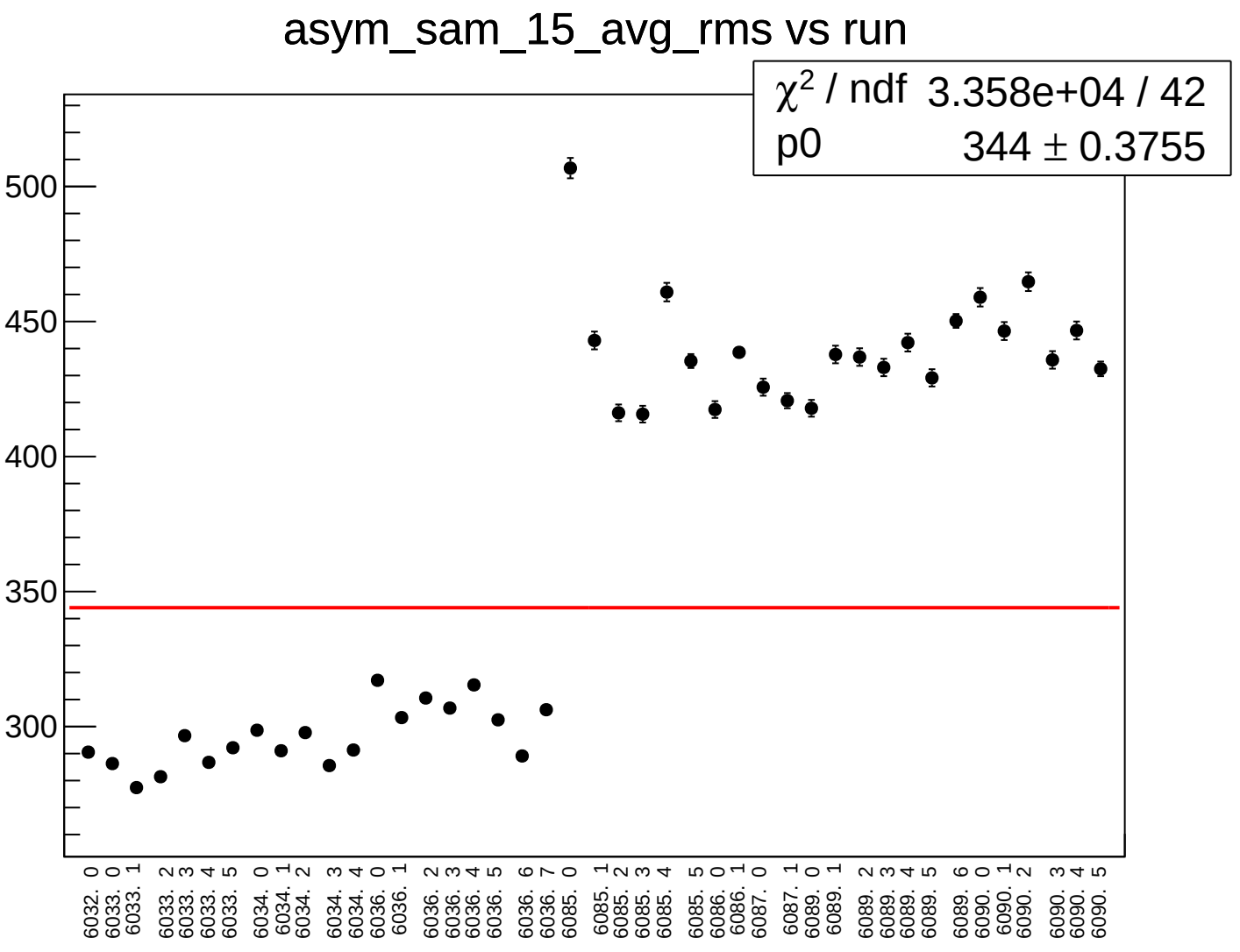

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2313 / 42
p0 58.5 ± 0.0627
75
70
65
60
55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

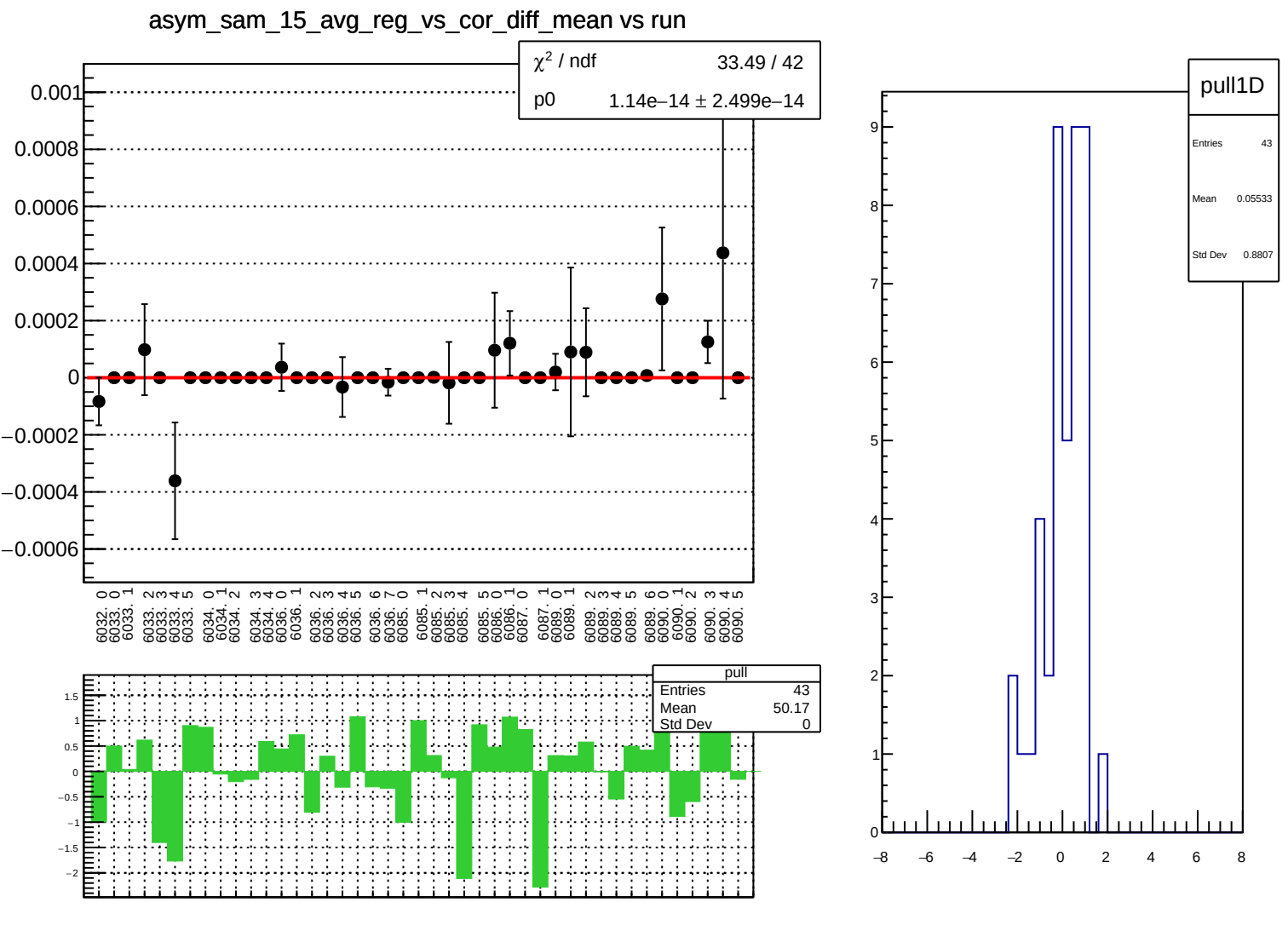

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.93 / 42
p0 −1155 ± 538.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.187
Std Dev 0
3
2
1
0
−1
−2

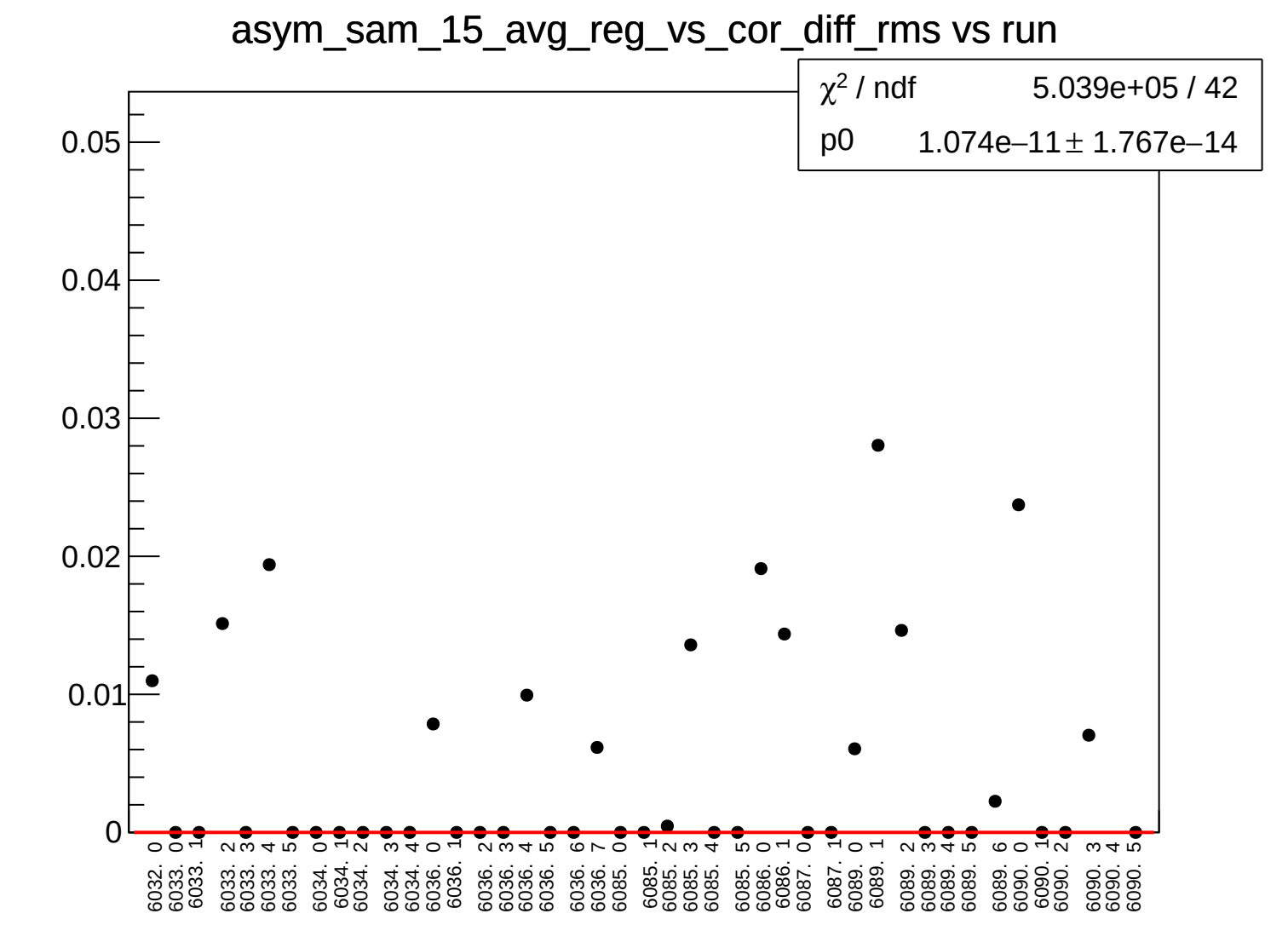

pull1D
Entries 43
Mean 0.02099
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

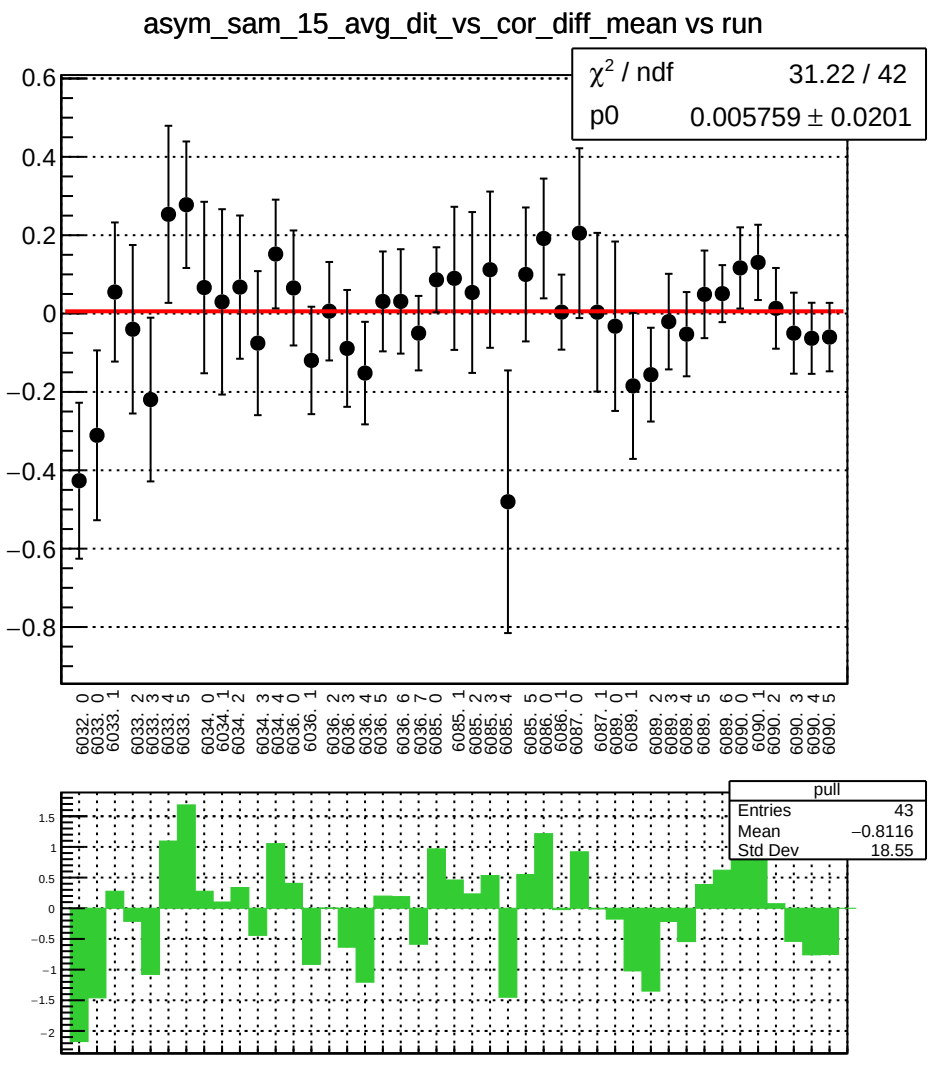

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.253e+04 / 42
p0 349.4 ± 0.3811
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

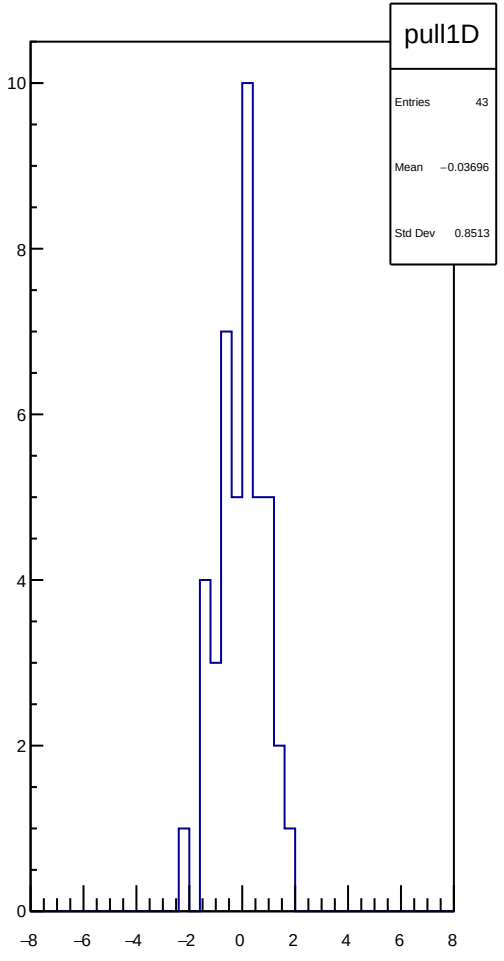

asym_sam_15_avg_mean vs run
χ² / ndf 49.95 / 42
p0 1123 ± 531
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.96
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02042
Std Dev 1.078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

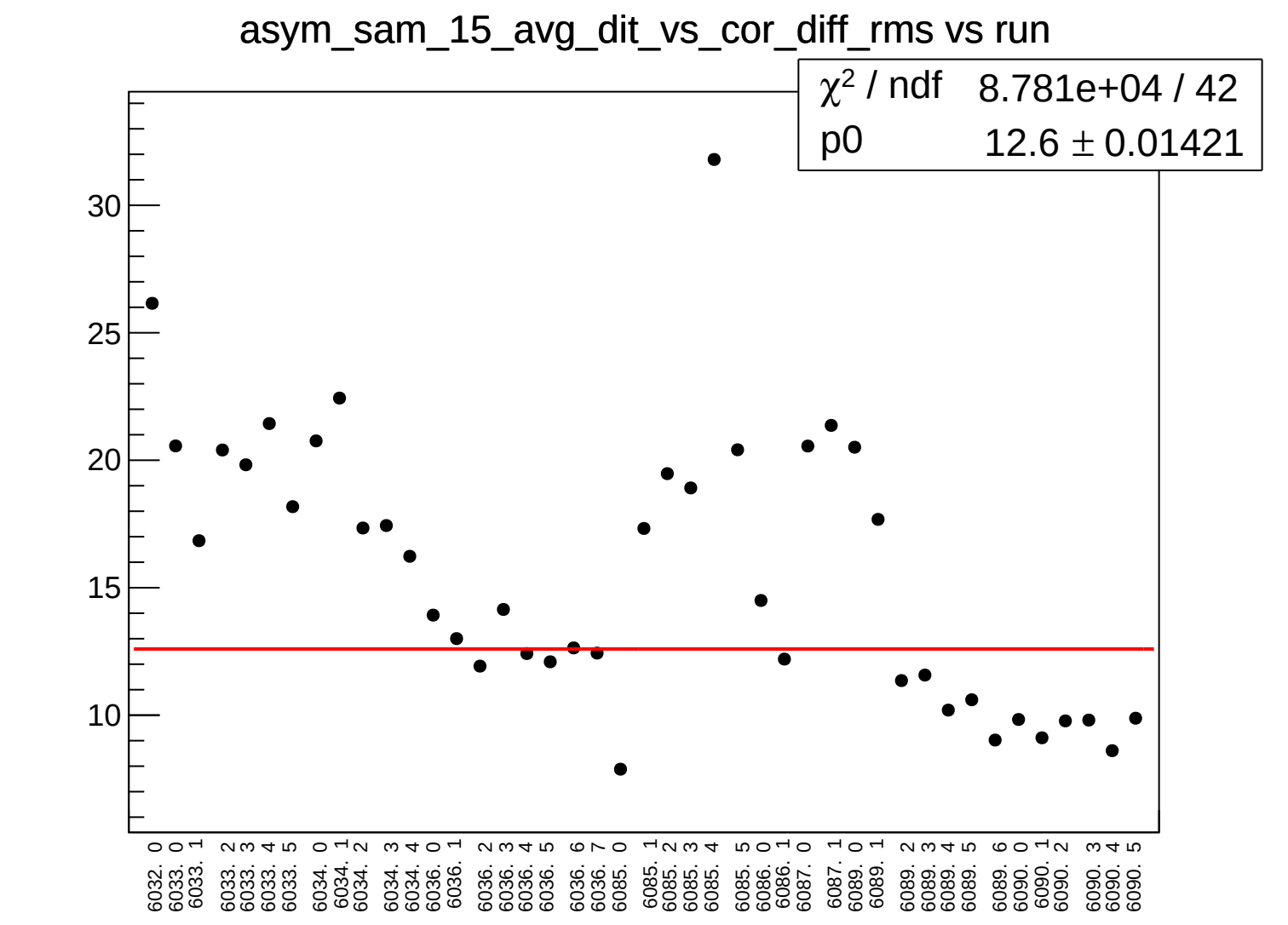

asym_sam_15_avg_rms vs run
χ² / ndf 3.358e+04 / 42
p0 344 ± 0.3755
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

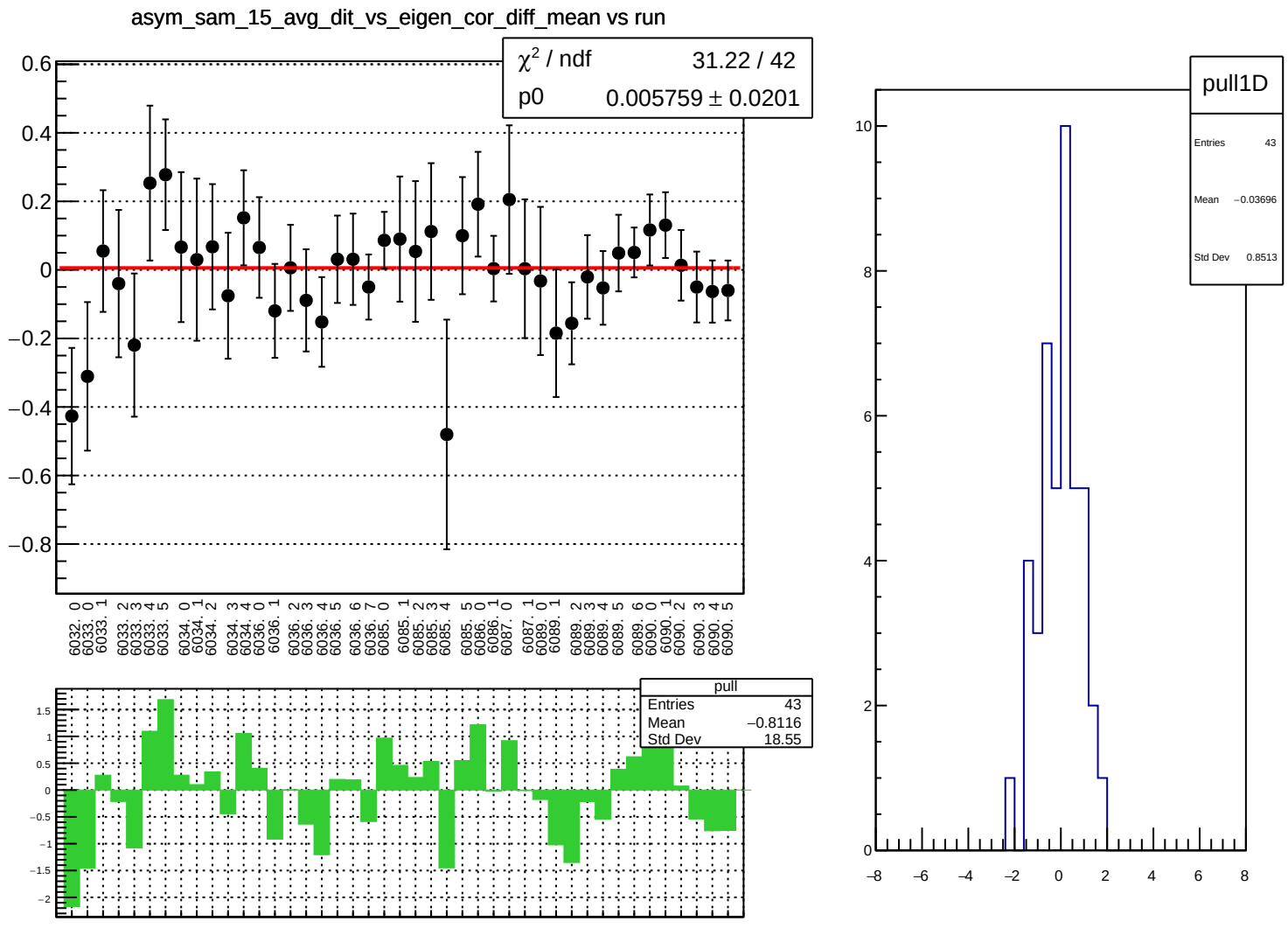

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 33.49 / 42
p0 1.14e−14 ± 2.499e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 50.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05533
Std Dev 0.8807
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

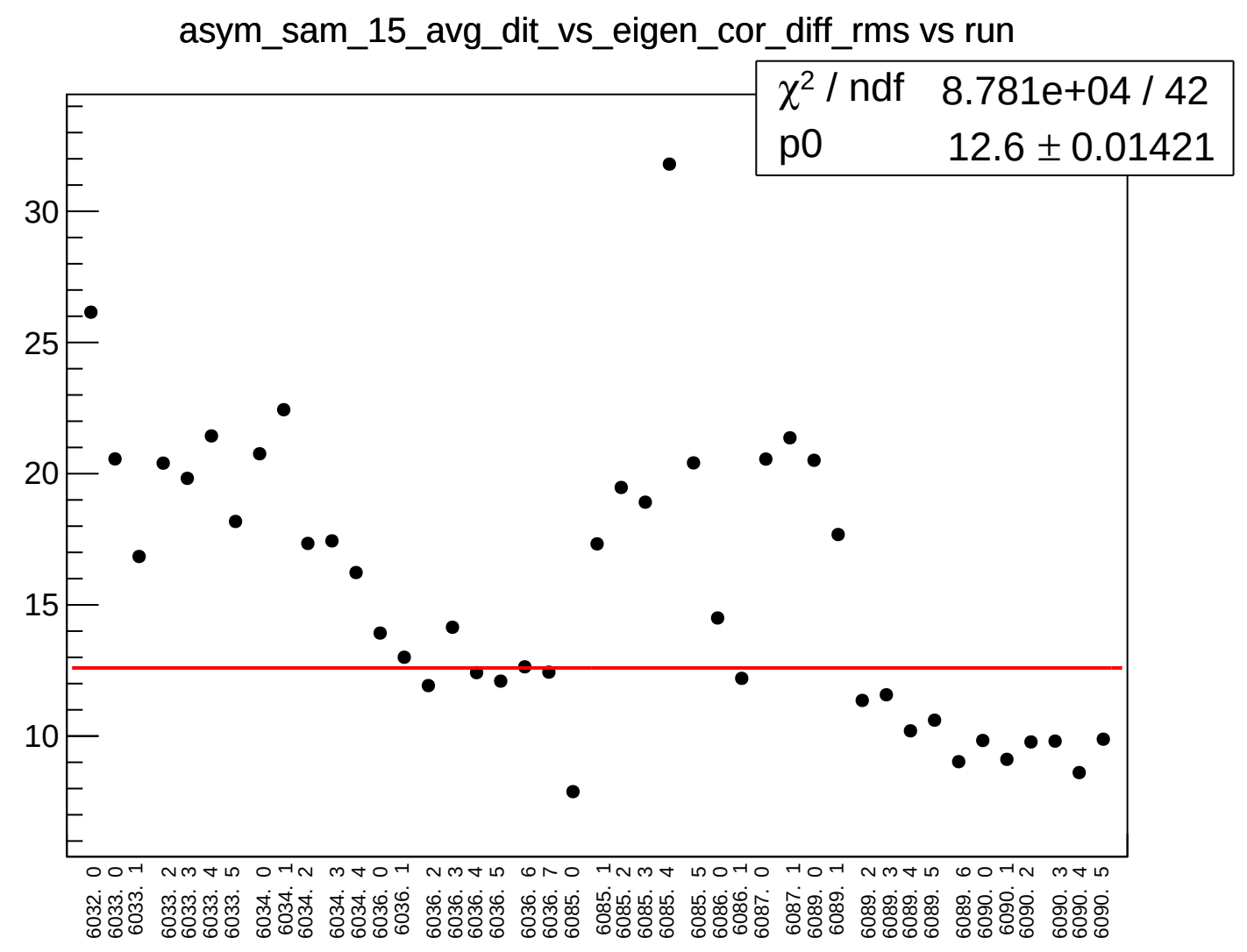

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.039e+05 / 42
p0 1.074e−11 ± 1.767e−14
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

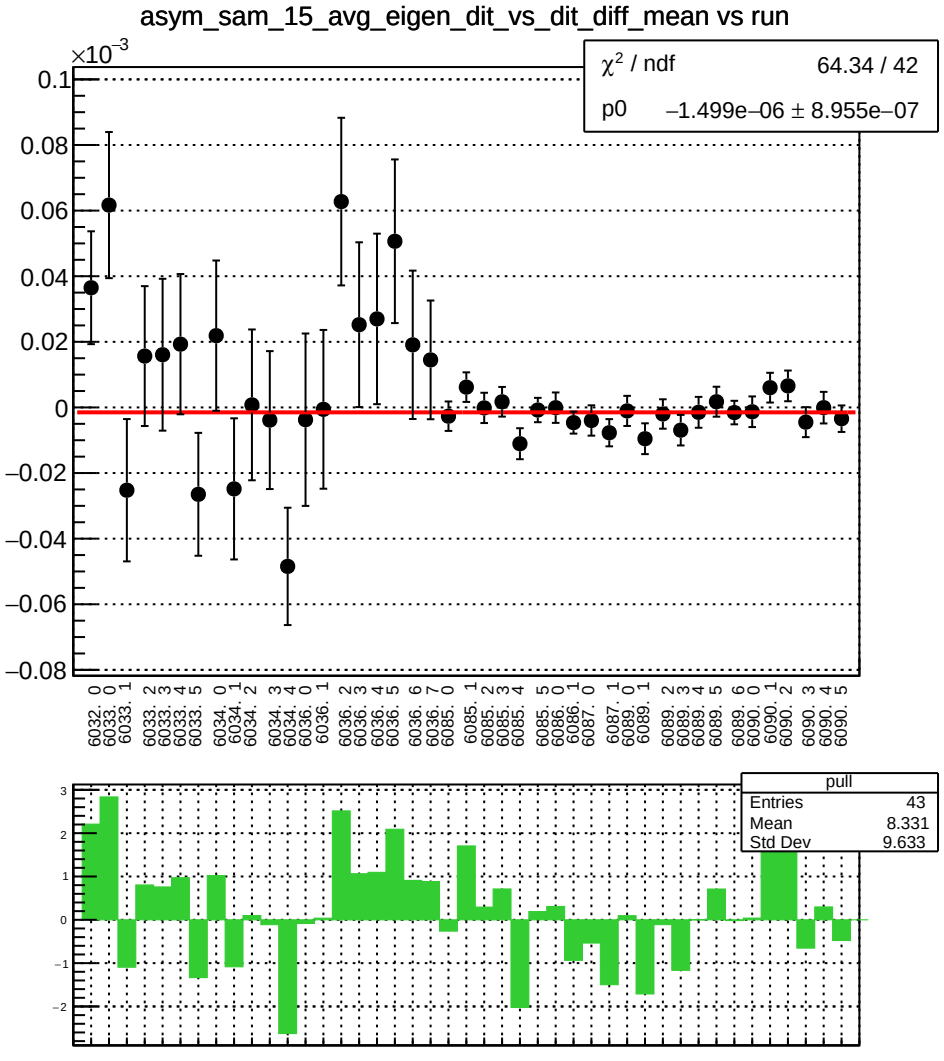

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.22 / 42
p0 0.005759 ± 0.0201
pull
Entries 43
Mean −0.8116
Std Dev 18.55

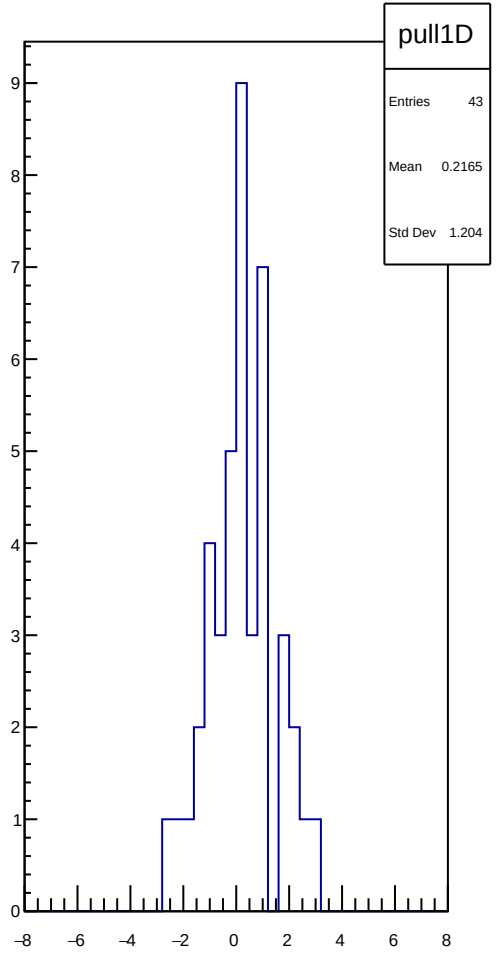

pull1D
Entries 43
Mean −0.03696
Std Dev 0.8513

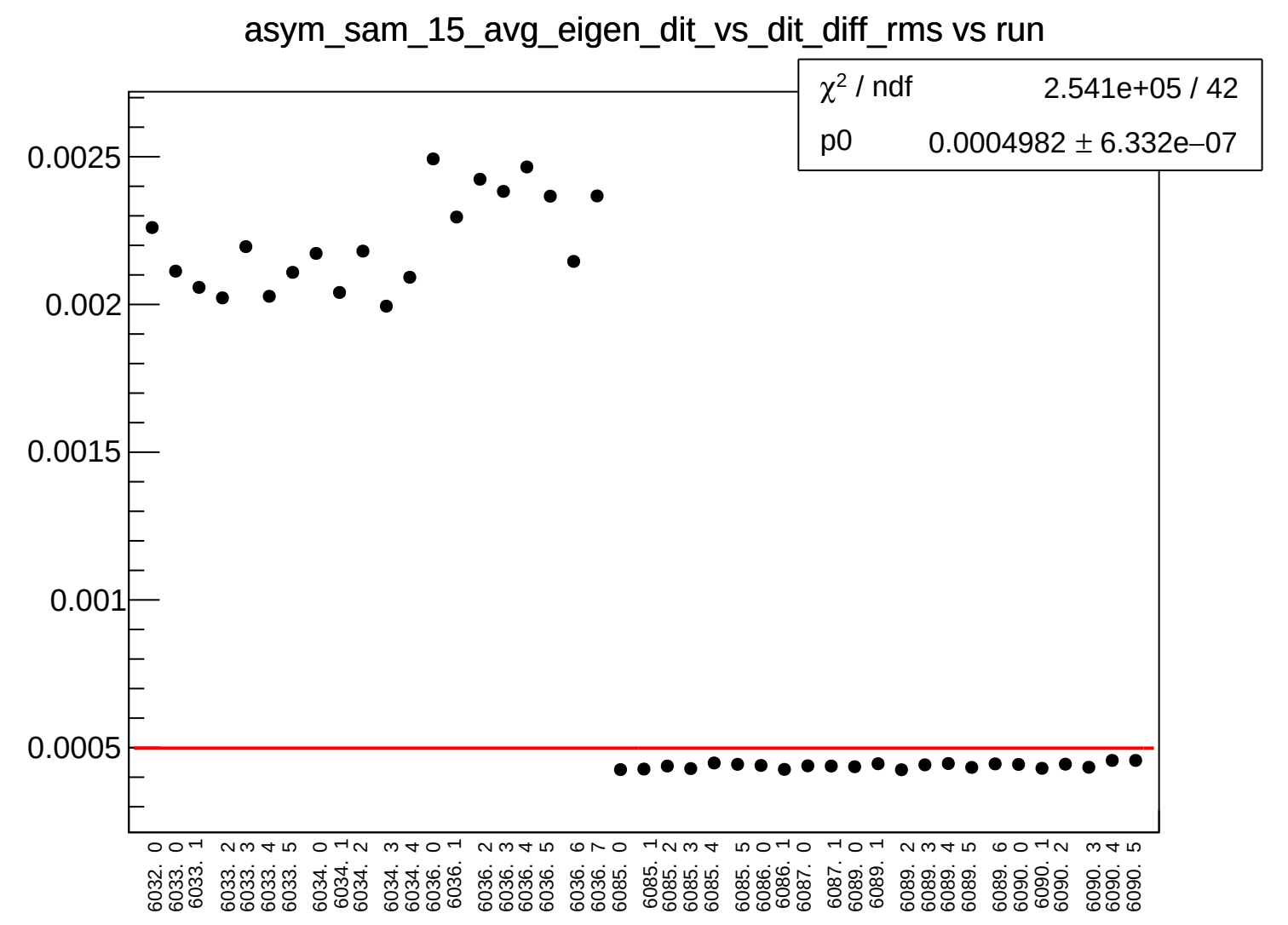

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.781e+04 / 42
p0 12.6 ± 0.01421
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

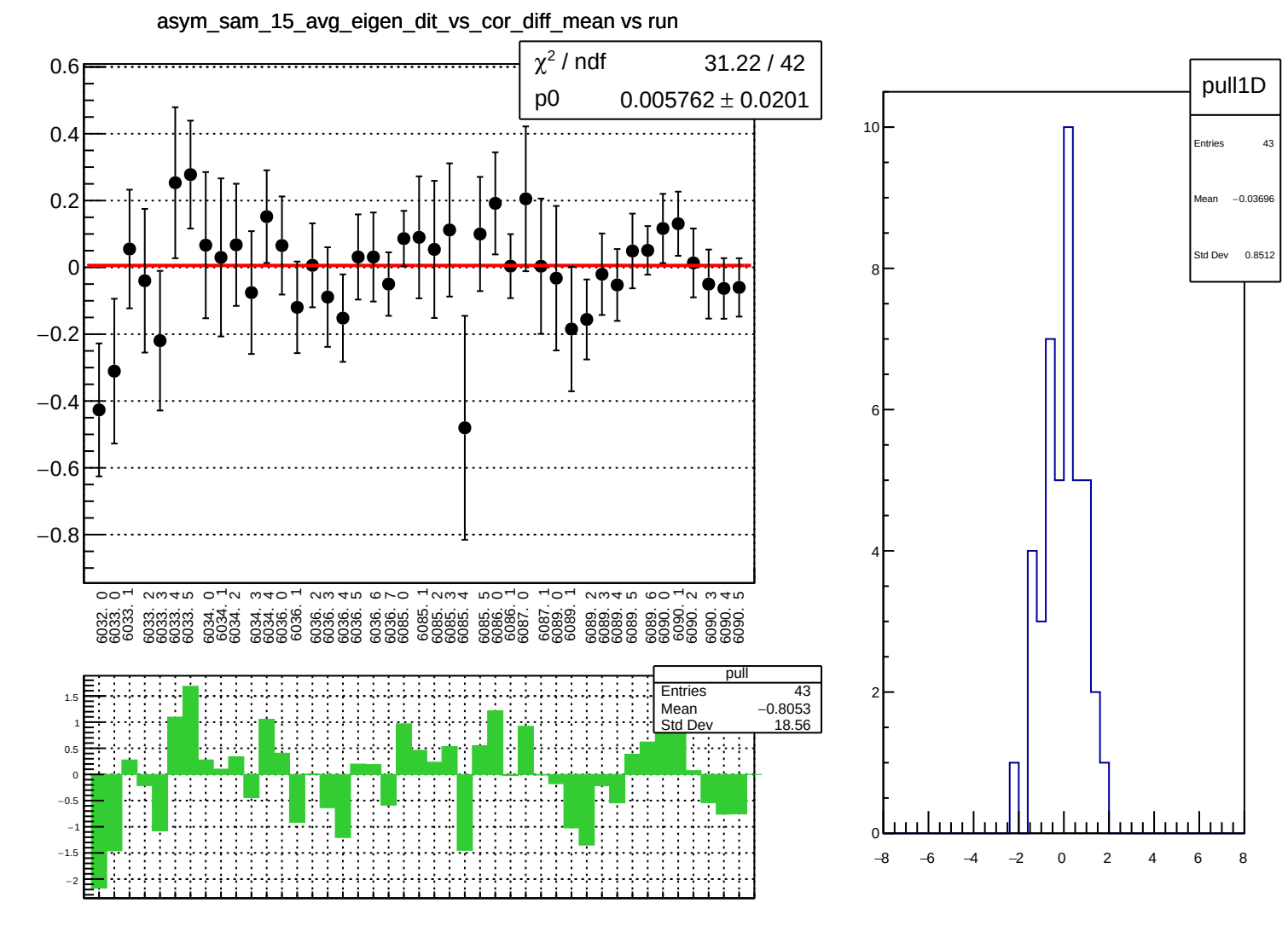

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.22 / 42
p0 0.005759 ± 0.0201
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.8116
Std Dev 18.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03696
Std Dev 0.8513
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

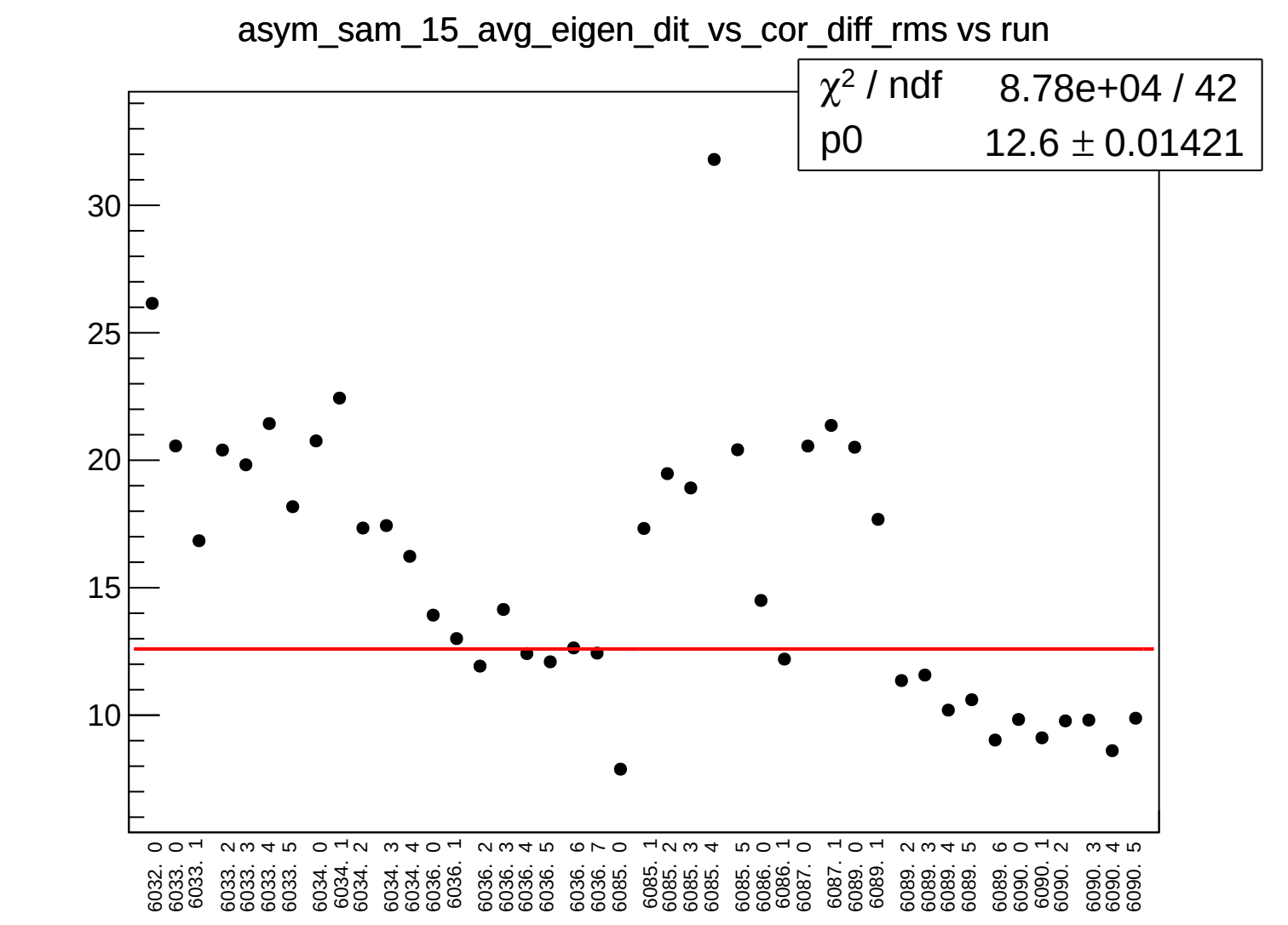

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.781e+04 / 42
p0 12.6 ± 0.01421
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

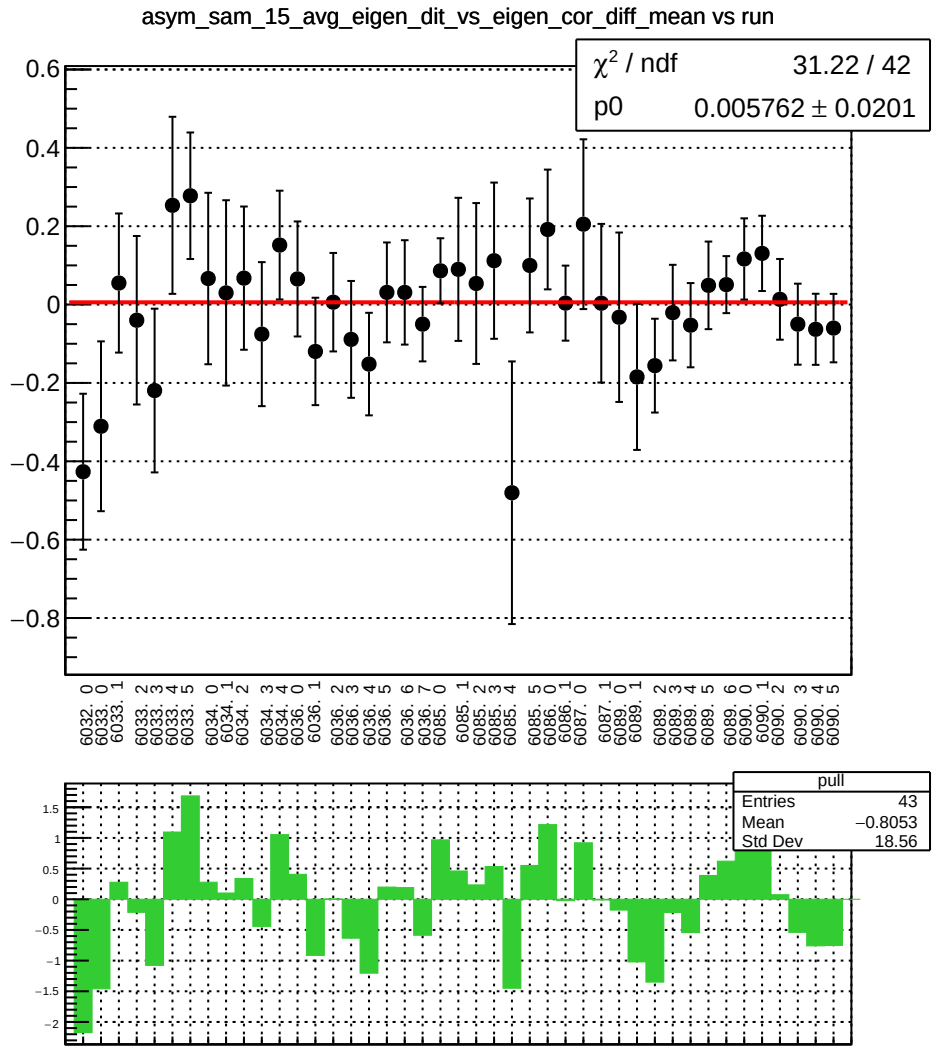

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.34 / 42
p0 −1.499e−06 ± 8.955e−07
pull
Entries 43
Mean 8.331
Std Dev 9.633

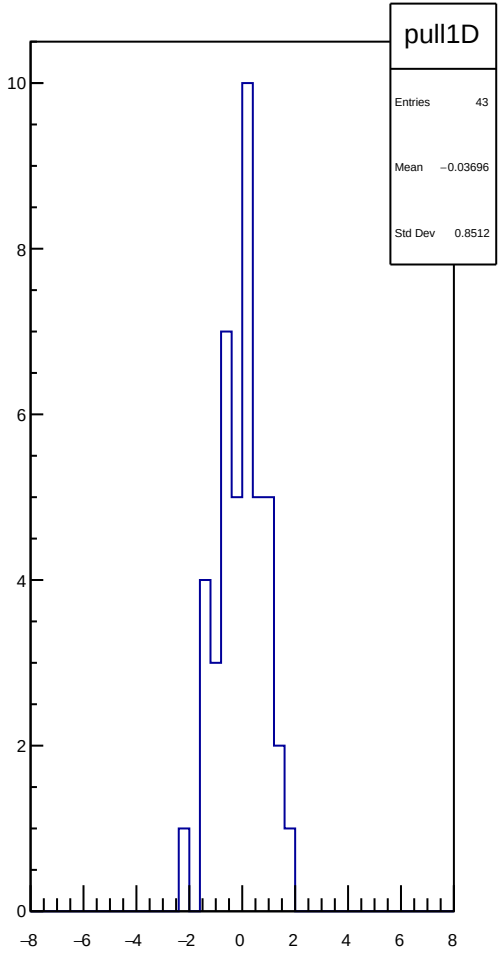

pull1D
Entries 43
Mean 0.2165
Std Dev 1.204

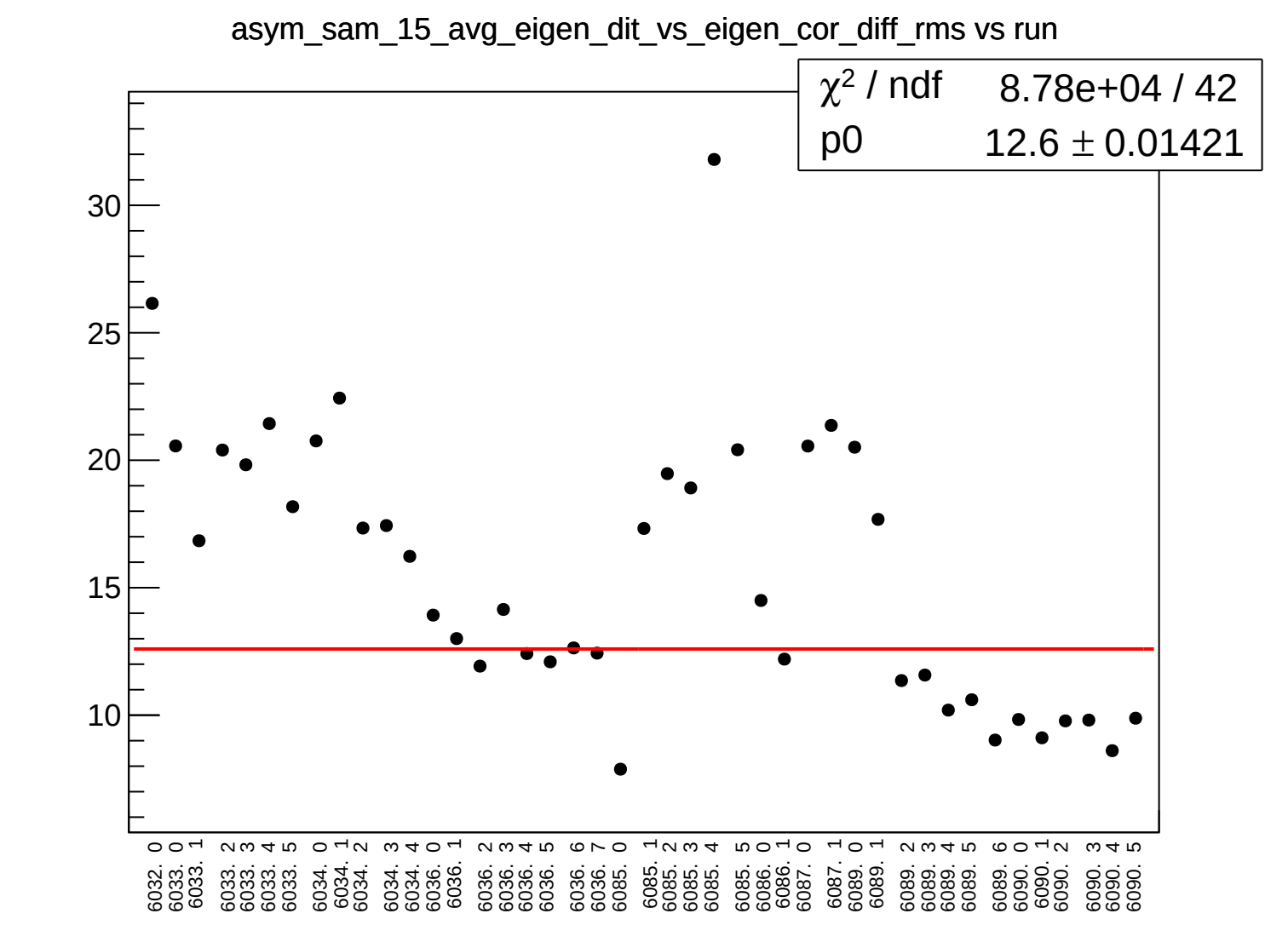

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.541e+05 / 42
p0 0.0004982 ± 6.332e−07
0.0025
0.002
0.0015
0.001
0.0005
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

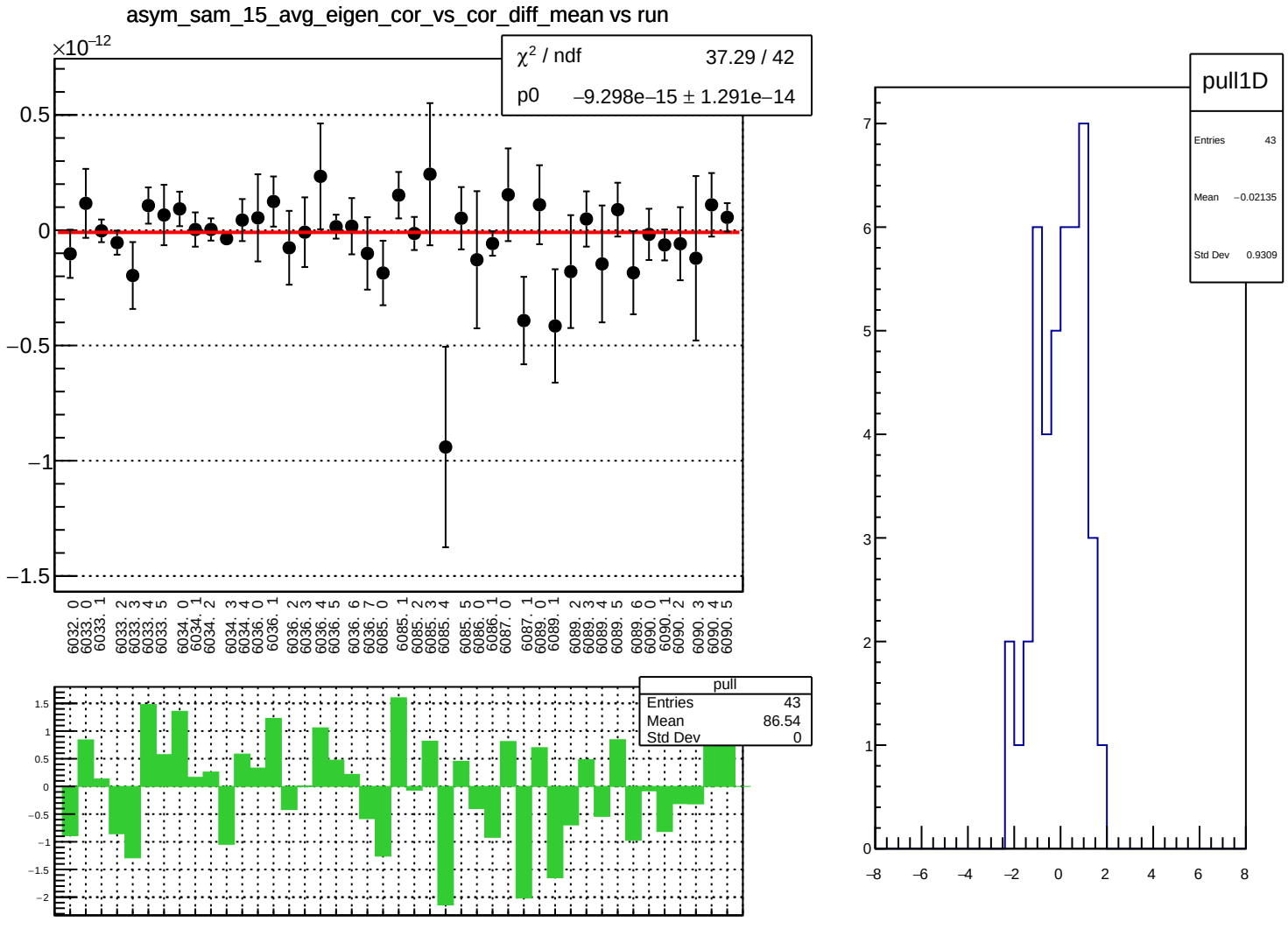

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.22 / 42
p0 0.005762 ± 0.0201
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.8053
Std Dev 18.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03696
Std Dev 0.8512
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

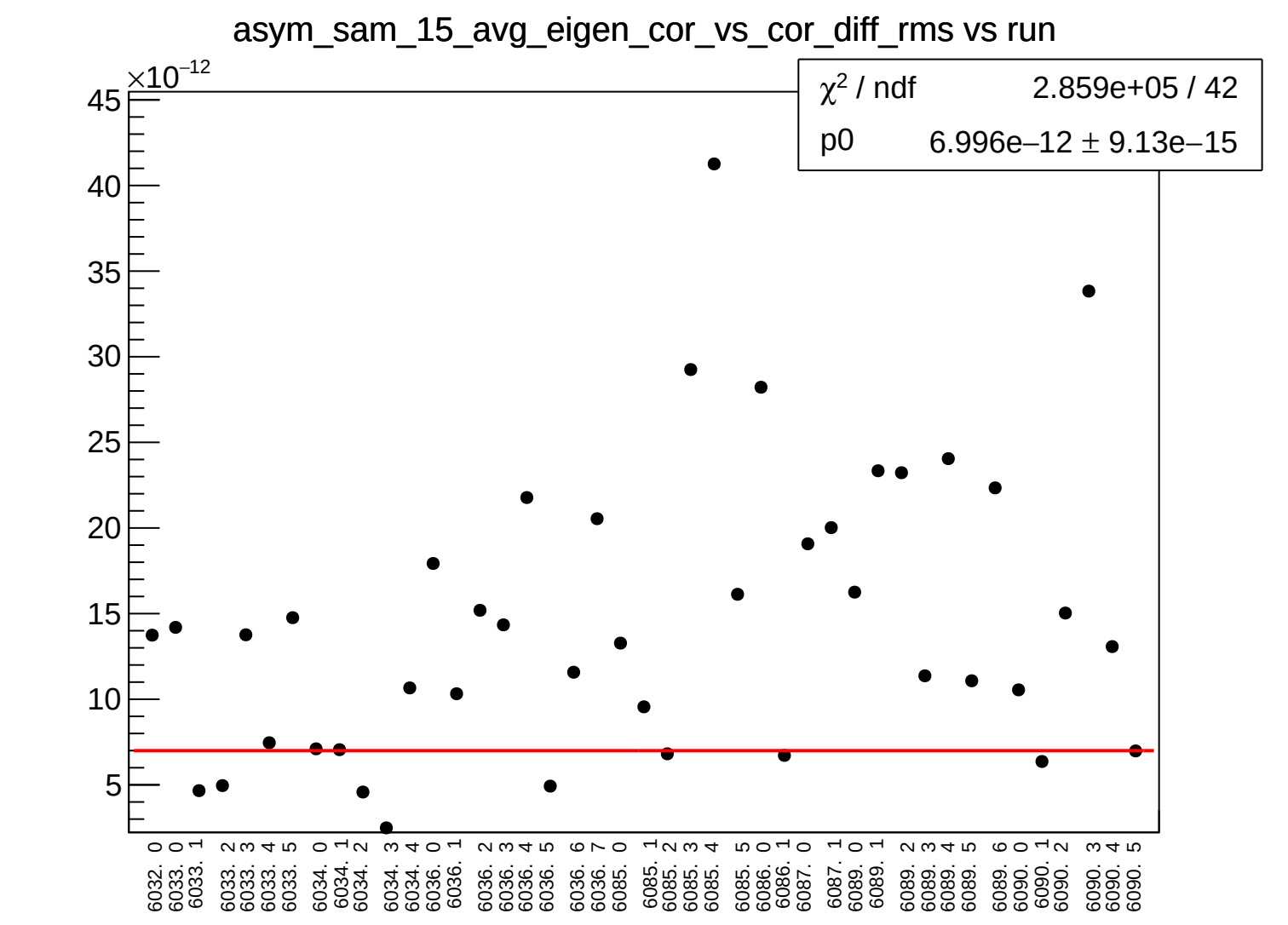

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.78e+04 / 42
p0 12.6 ± 0.01421
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

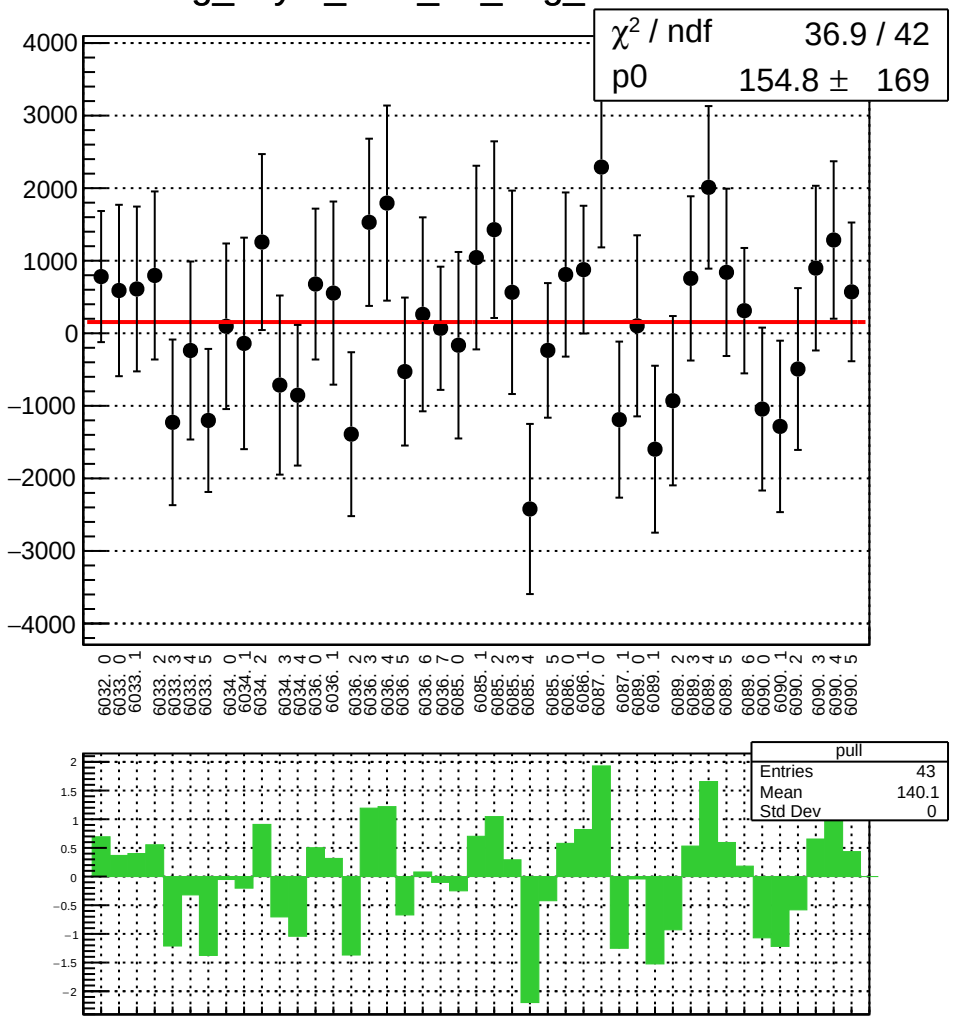

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.22 / 42
p0 0.005762 ± 0.0201
pull
Entries 43
Mean −0.8053
Std Dev 18.56

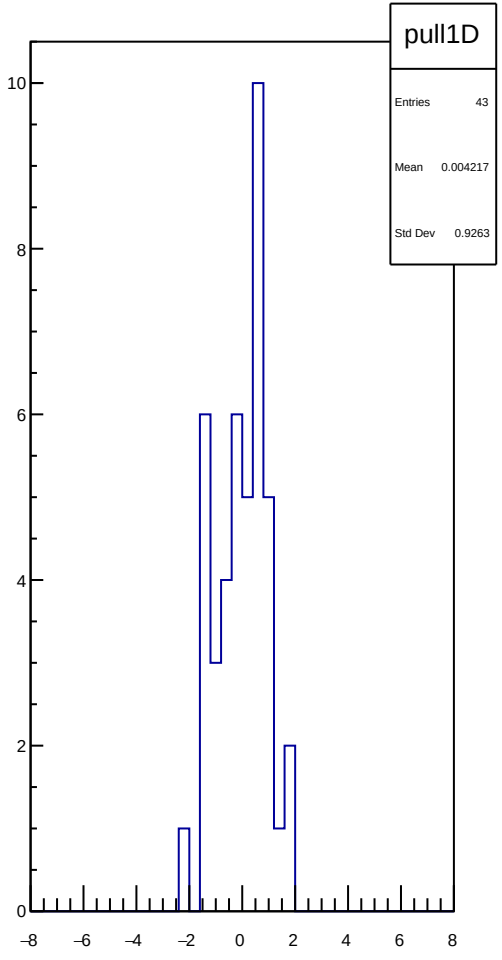

pull1D
Entries 43
Mean −0.03696
Std Dev 0.8512

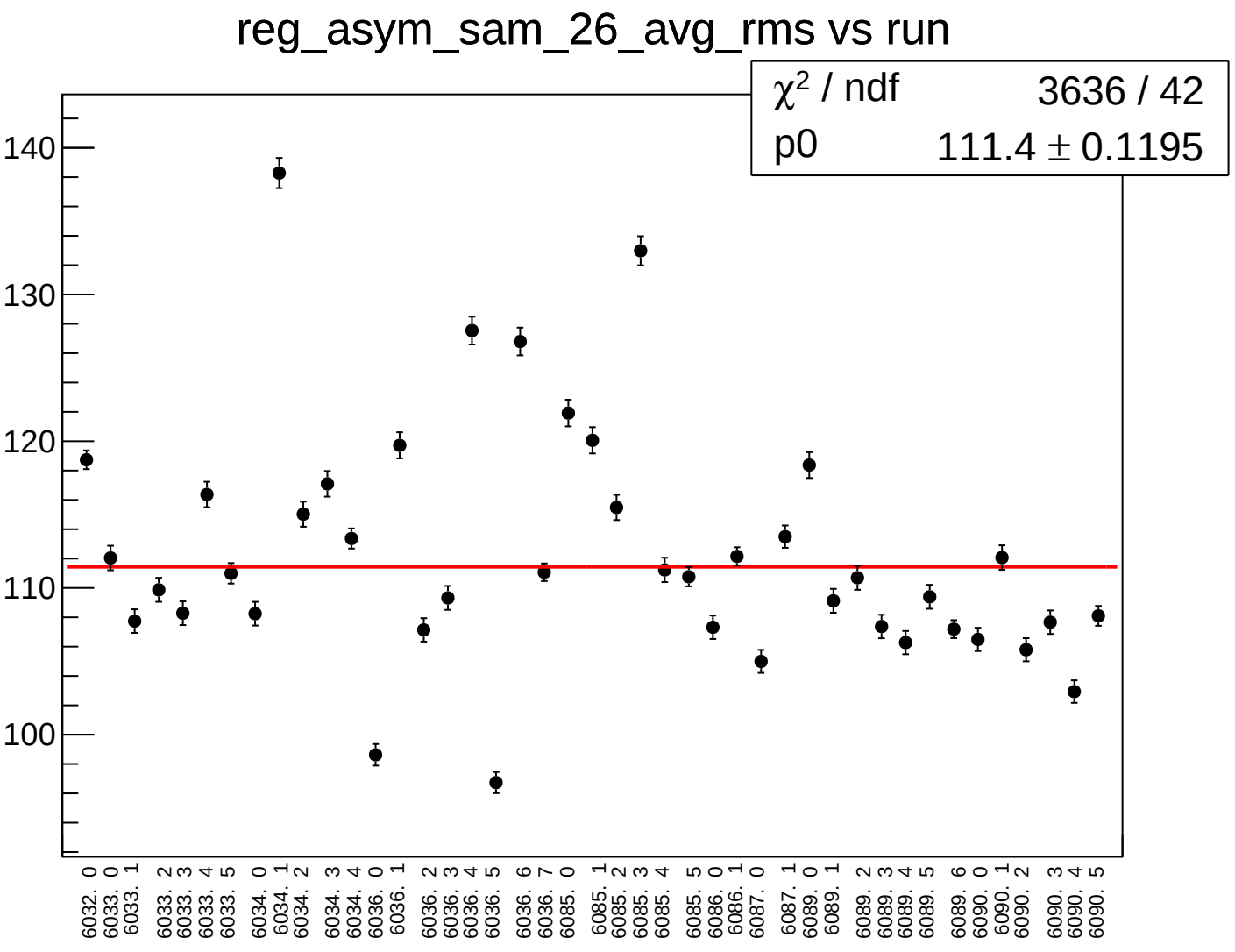

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.78e+04 / 42
p0 12.6 ± 0.01421
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

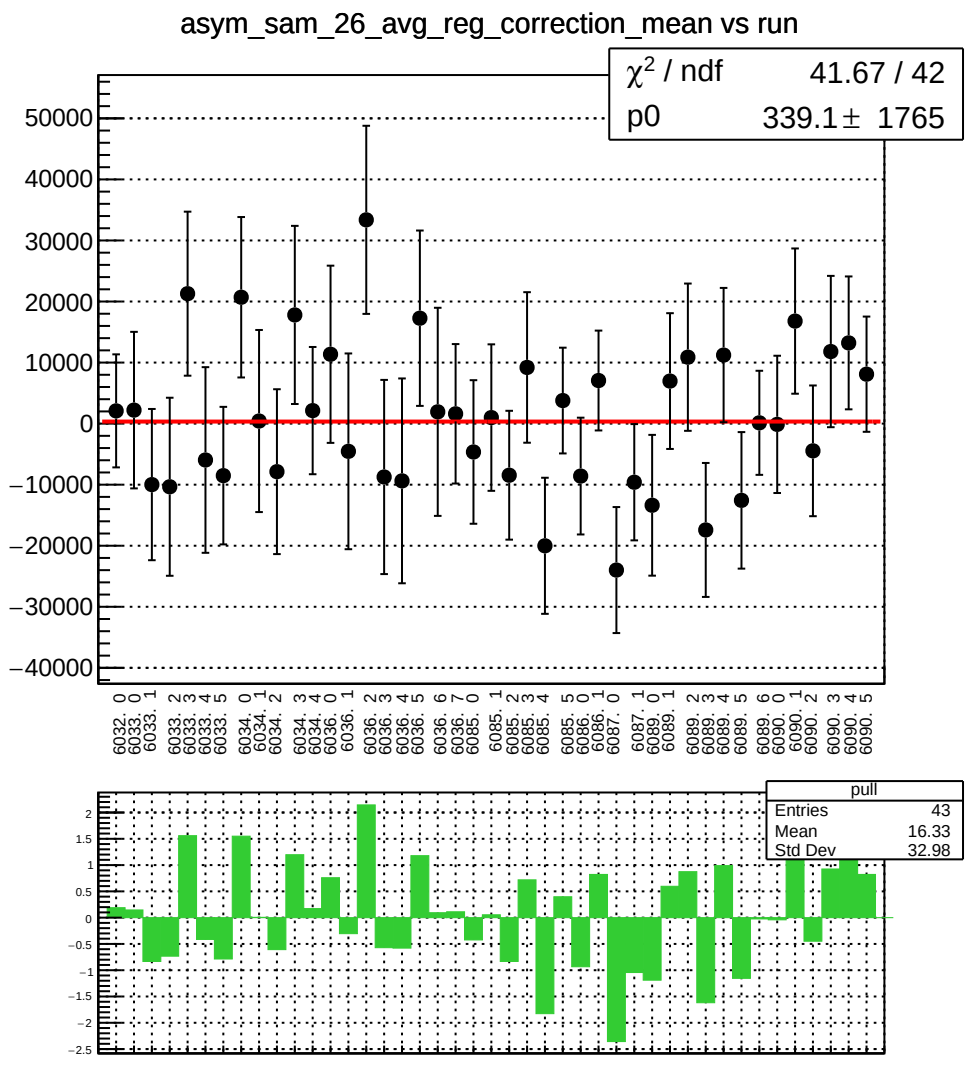

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.29 / 42
p0 −9.298e−15 ± 1.291e−14
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 86.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02135
Std Dev 0.9309
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

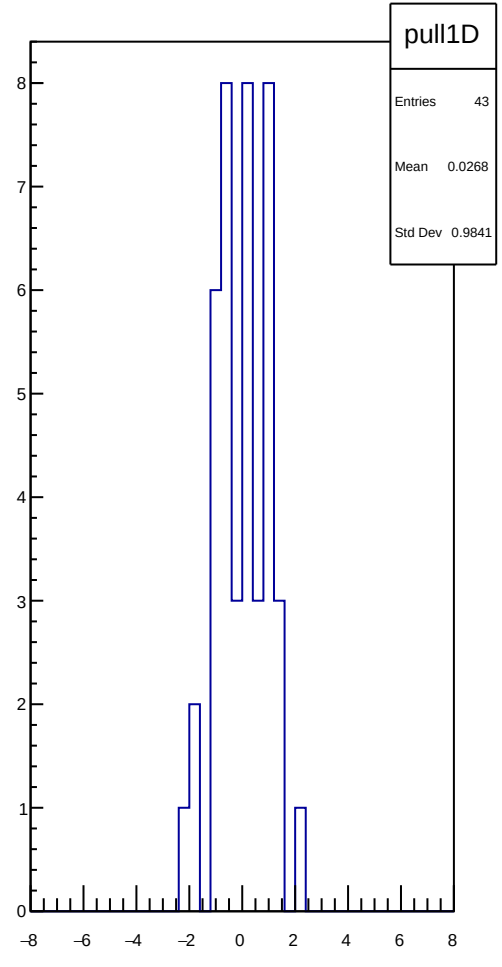

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.859e+05 / 42
p0 6.996e−12 ± 9.13e−15
45
40
35
30
25
20
15
10
5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

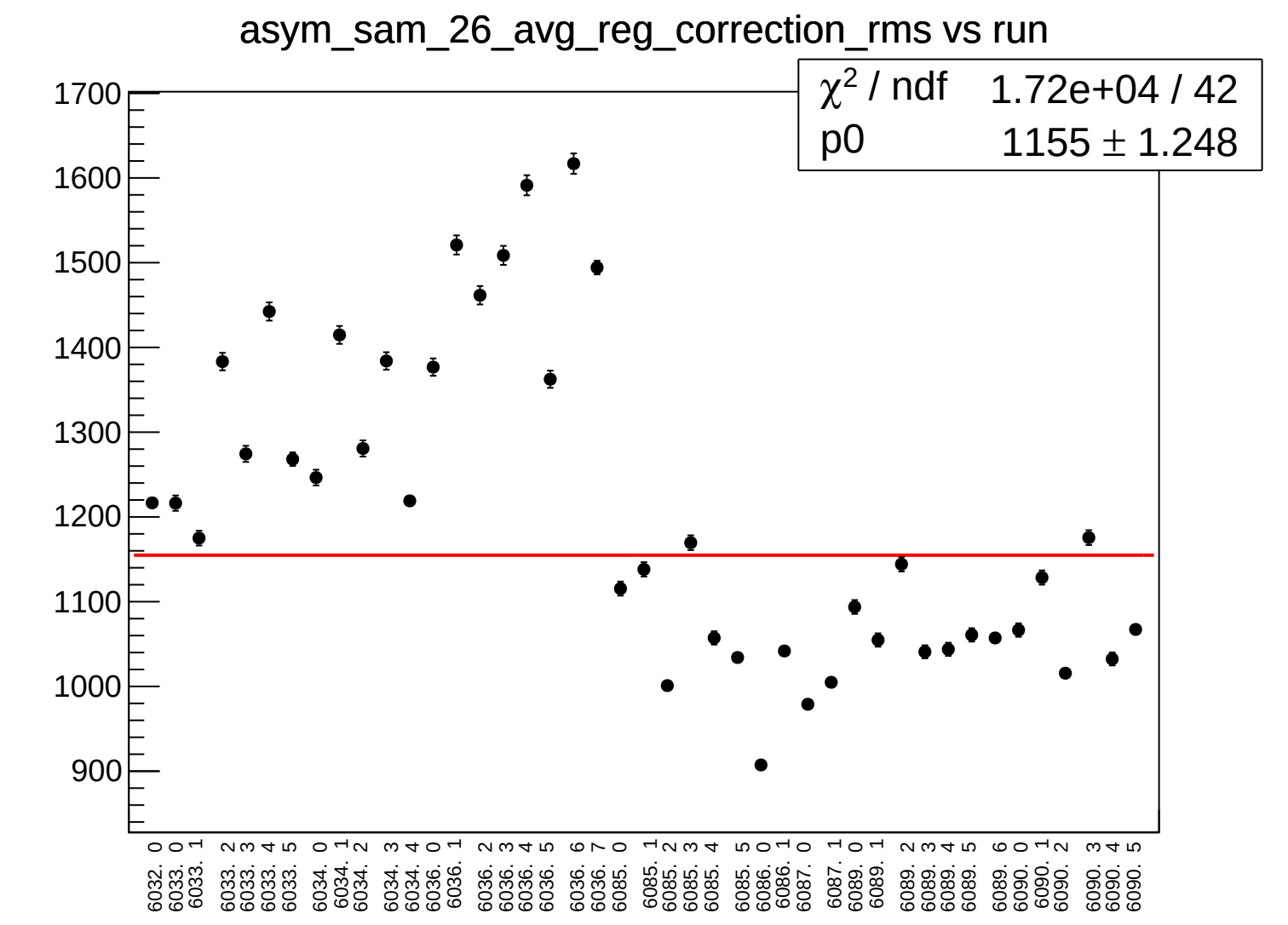

reg_asym_sam_26_avg_mean vs run
χ² / ndf 36.9 / 42
p0 154.8 ± 169
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 140.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

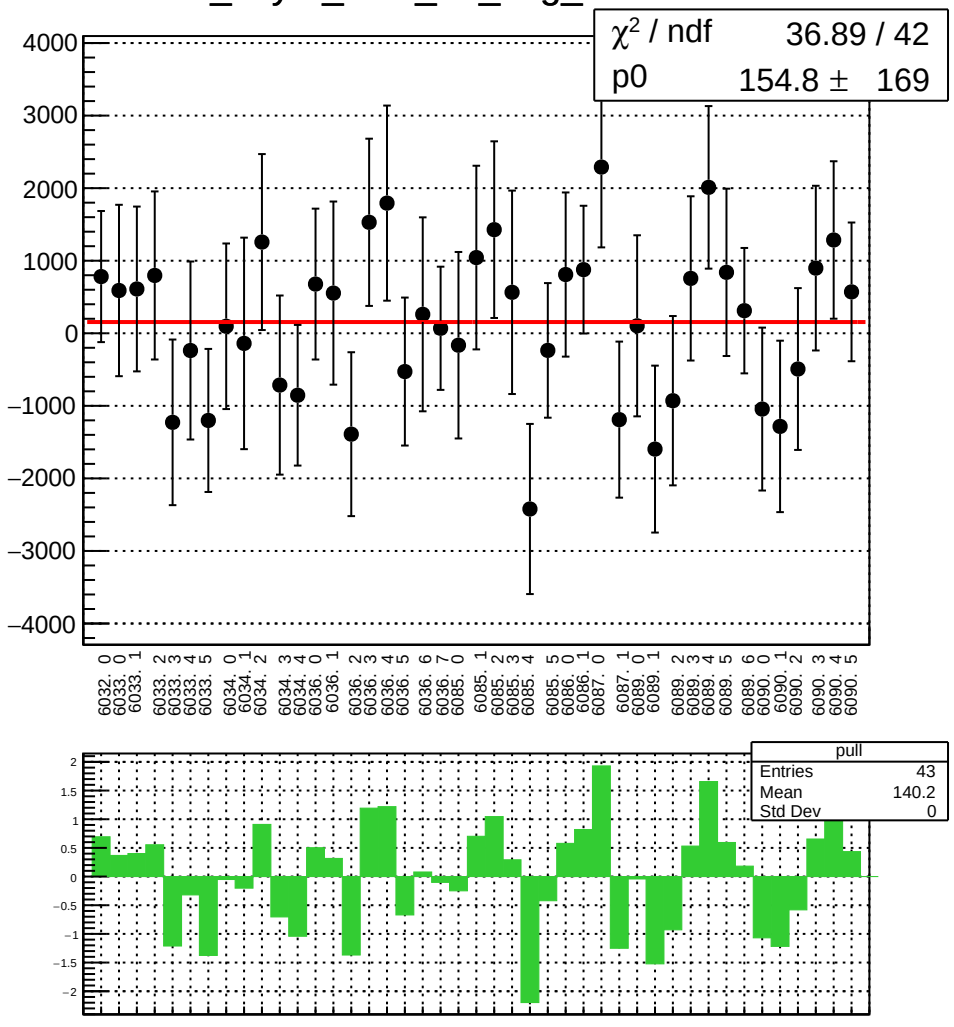

pull1D
Entries 43
Mean 0.004217
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

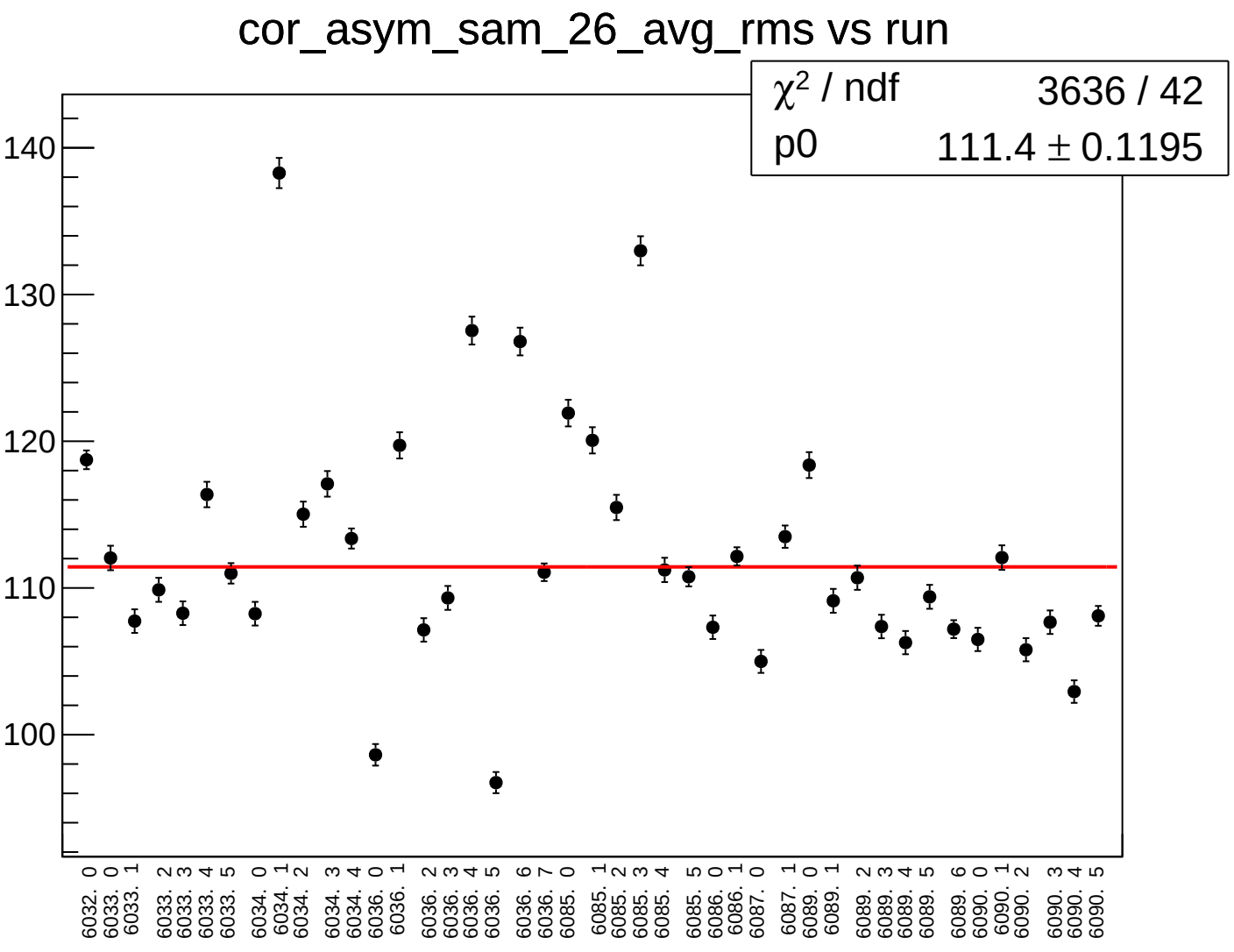

reg_asym_sam_26_avg_rms vs run
χ² / ndf 3636 / 42
p0 111.4 ± 0.1195
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

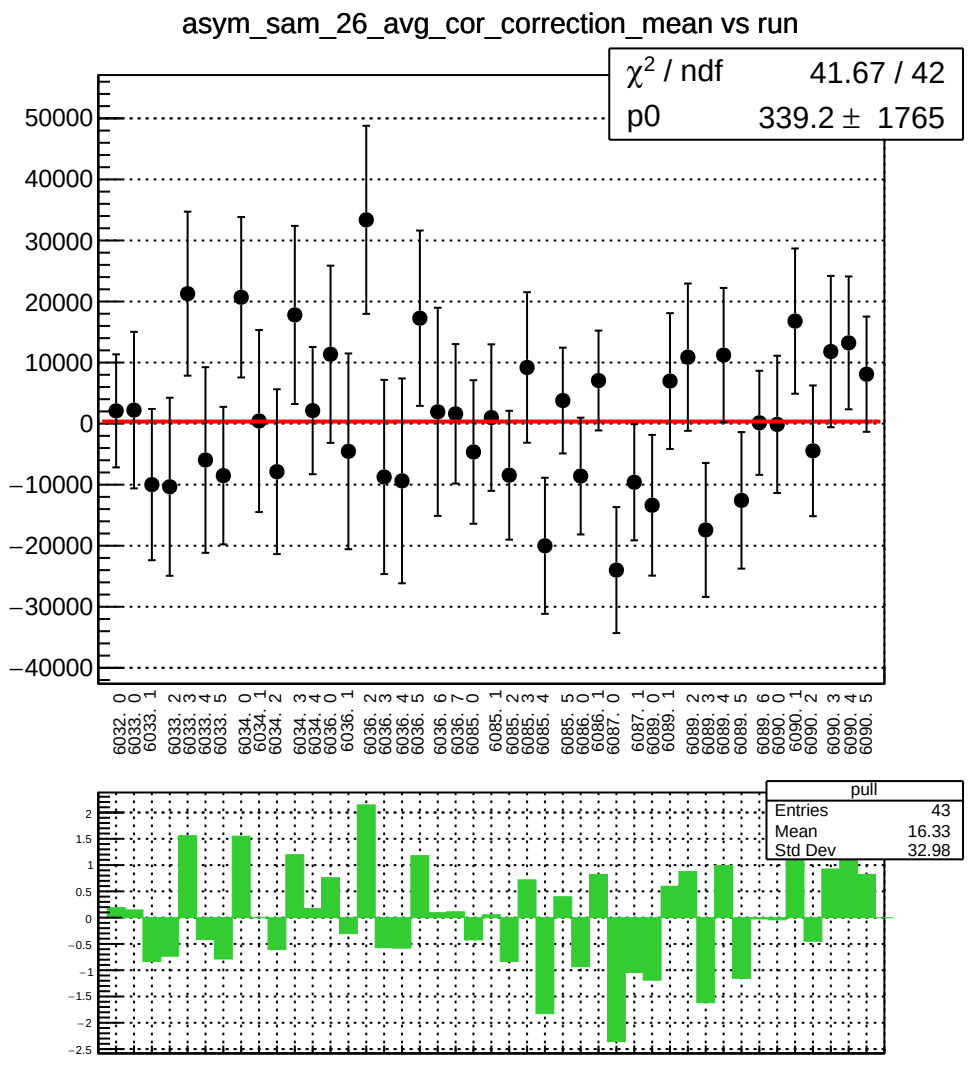

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 41.67 / 42
p0 339.1± 1765
pull
Entries 43
Mean 16.33
Std Dev 32.98

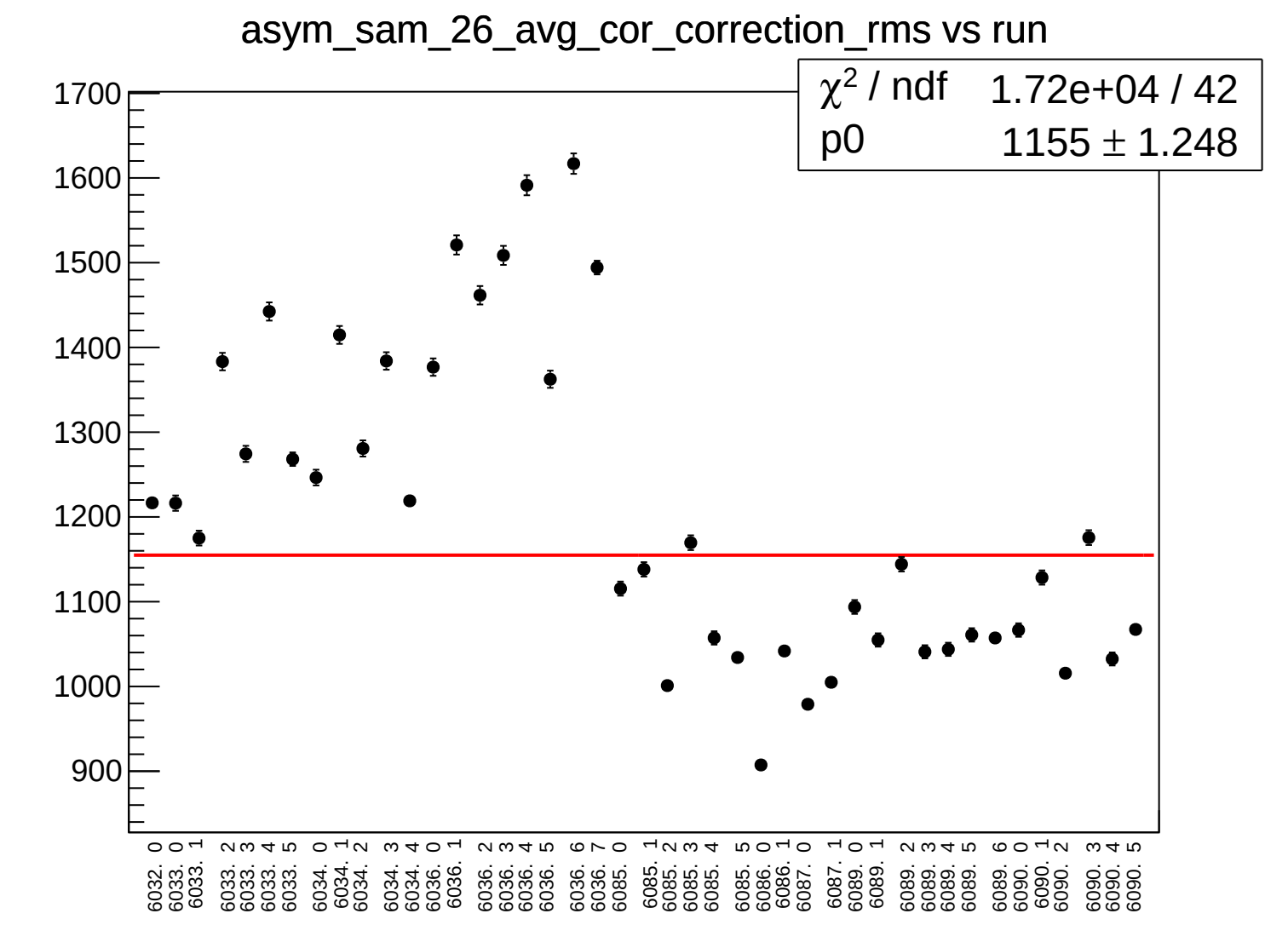

pull1D
Entries 43
Mean 0.0268
Std Dev 0.9841

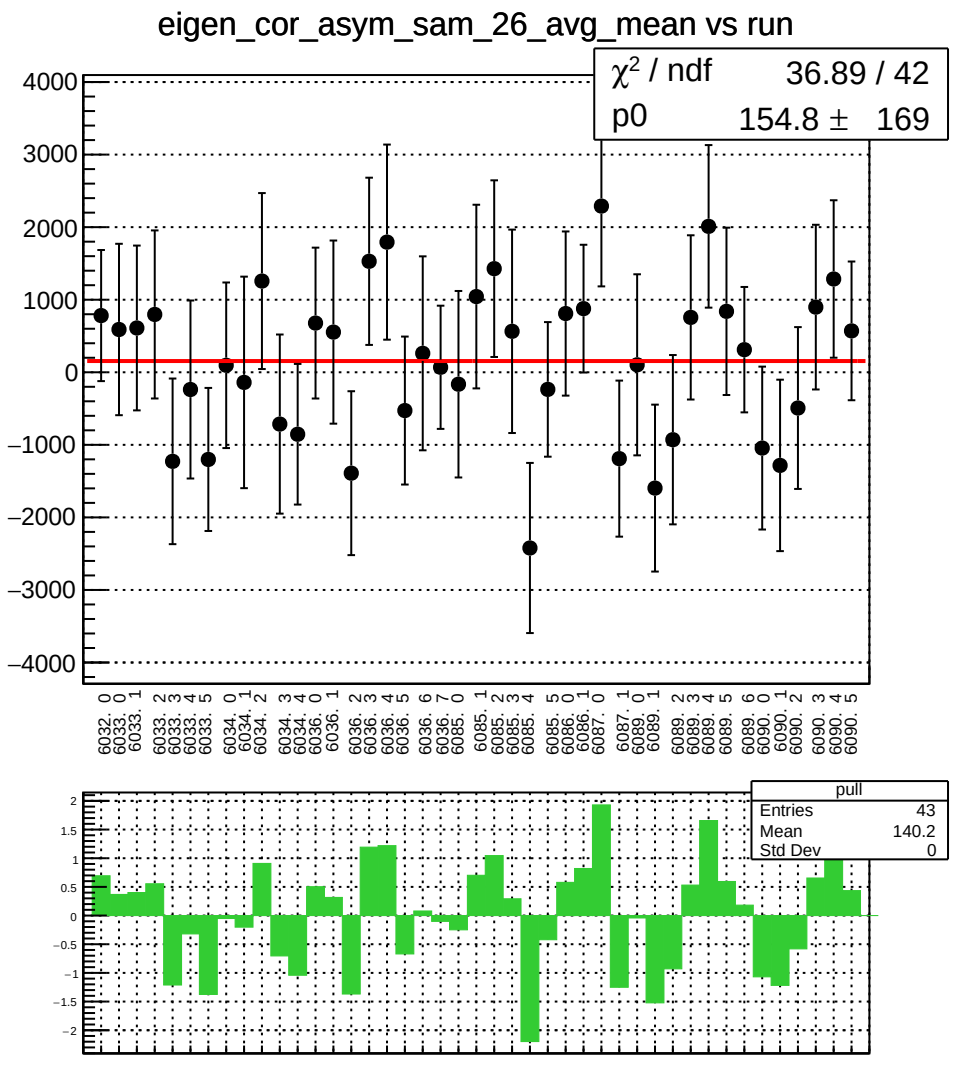

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.72e+04 / 42
p0 1155 ± 1.248
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

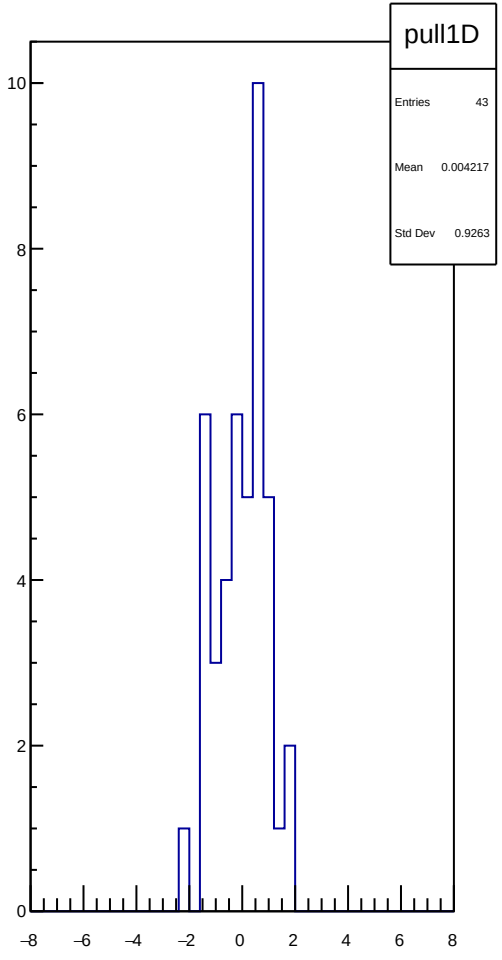

cor_asym_sam_26_avg_mean vs run
χ² / ndf 36.89 / 42
p0 154.8 ± 169
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 140.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.004217
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

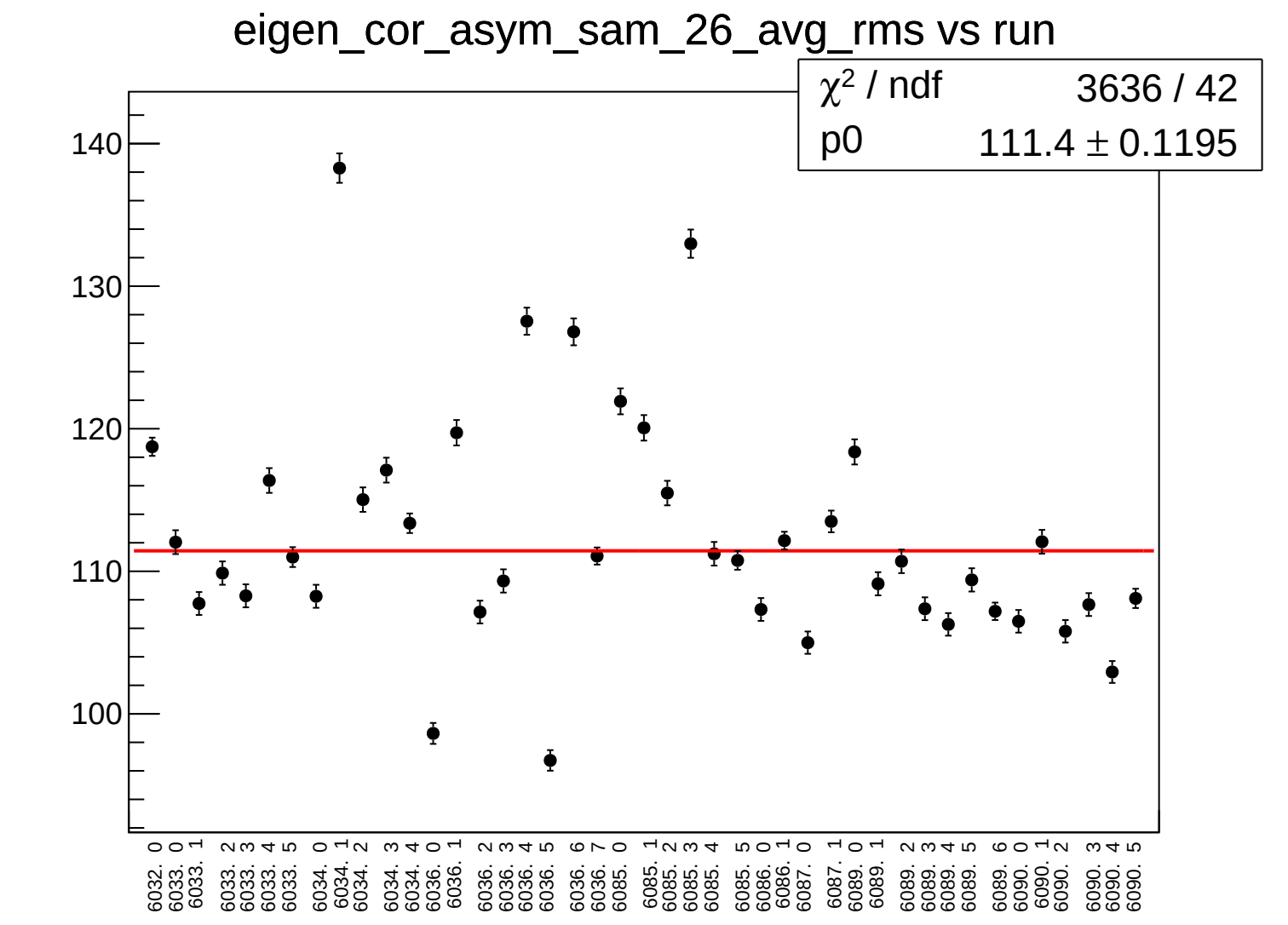

cor_asym_sam_26_avg_rms vs run
χ² / ndf 3636 / 42
p0 111.4 ± 0.1195
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

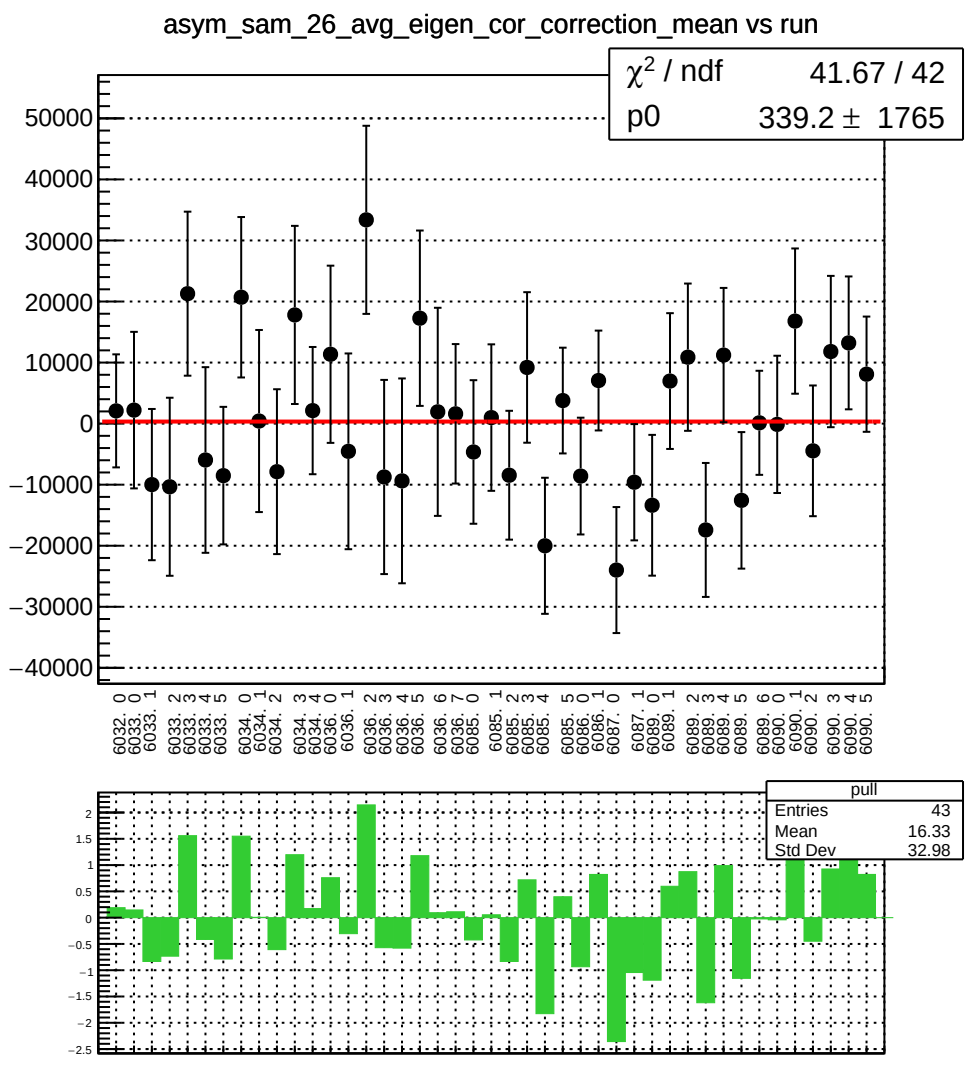

asym_sam_26_avg_cor_correction_mean vs run
χ^2 / ndf 41.67 / 42
p0 339.2 ± 1765
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.33
Std Dev 32.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02679
Std Dev 0.9841
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

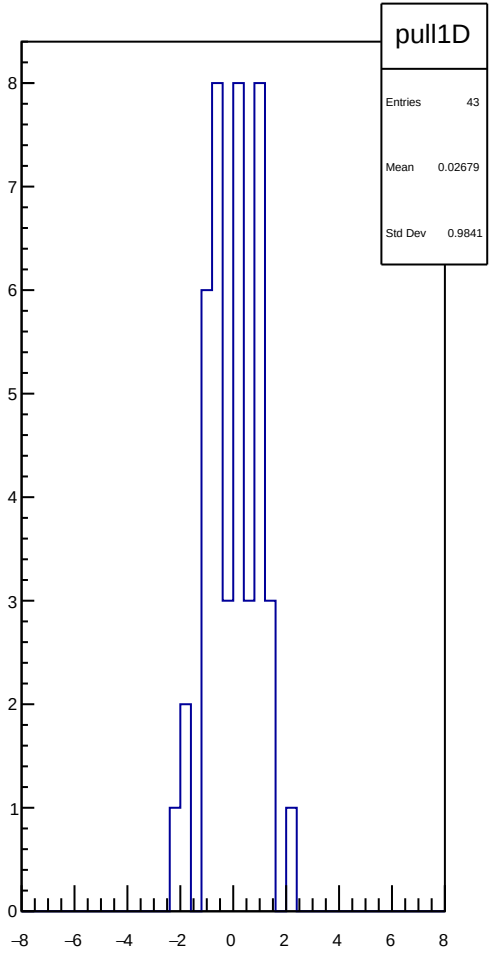

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.72e+04 / 42
p0 1155 ± 1.248
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

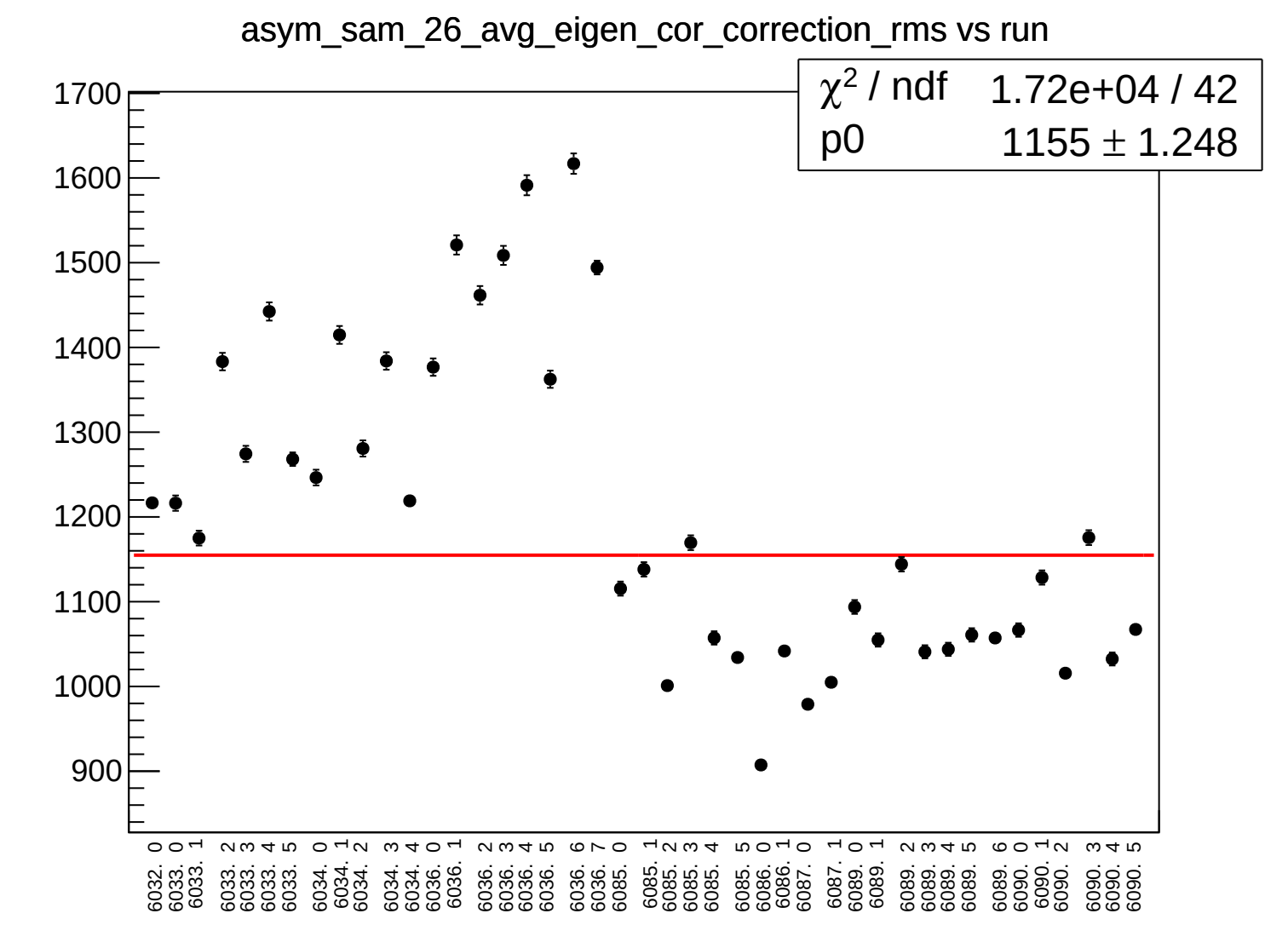

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 36.89 / 42
p0 154.8 ± 169
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 140.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

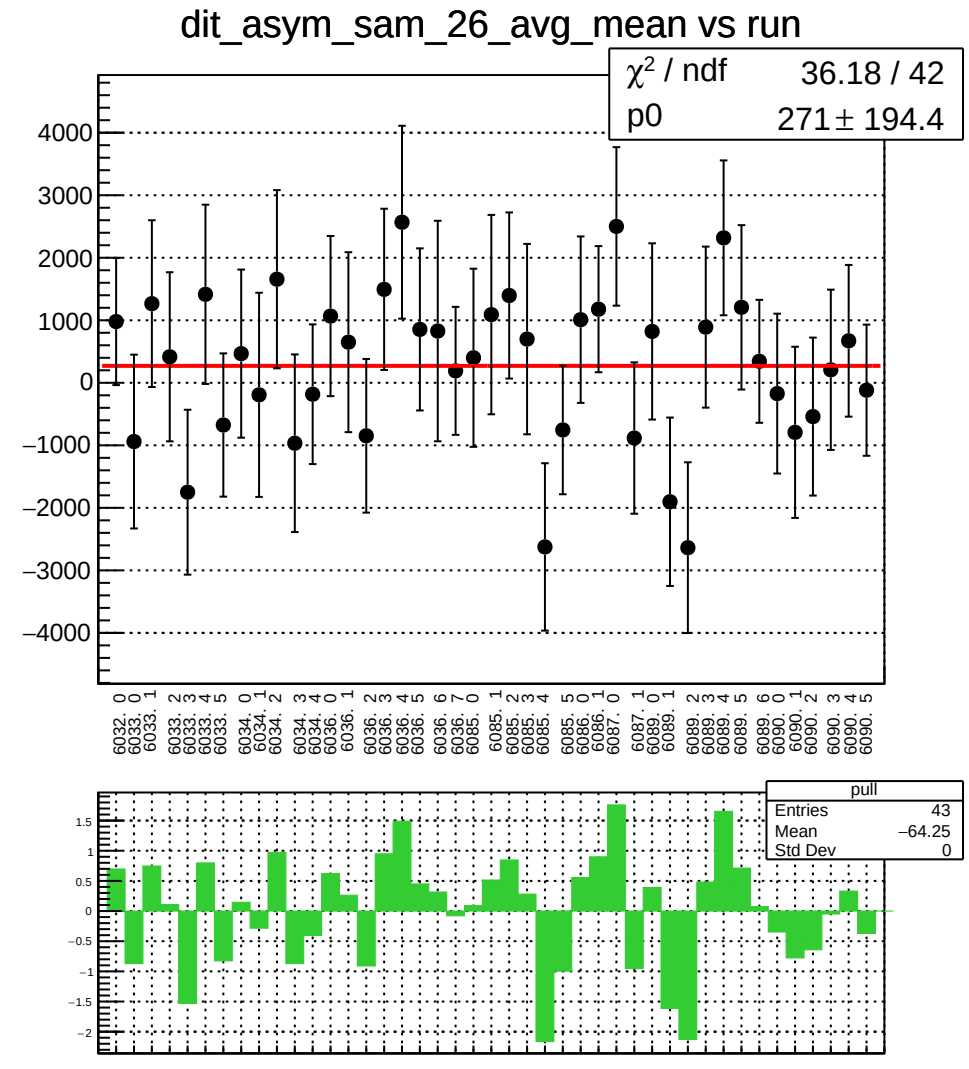

pull1D
Entries 43
Mean 0.004217
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

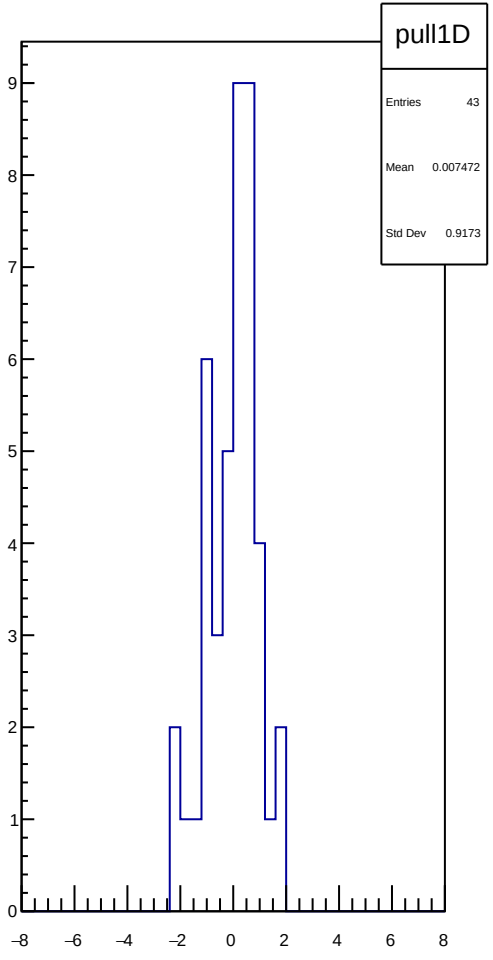

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3636 / 42
p0 111.4 ± 0.1195
140
130
120
110
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

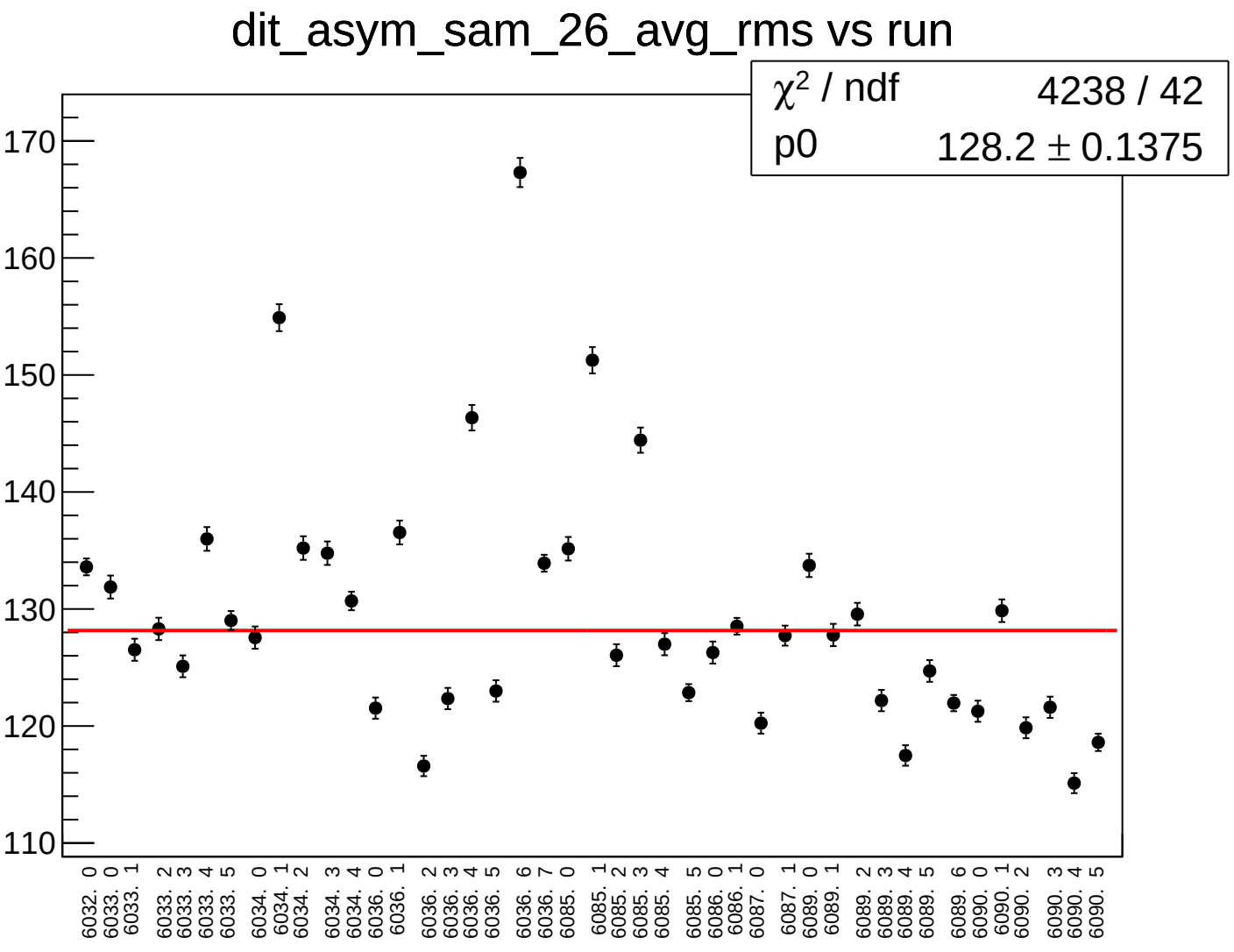

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.67 / 42
p0 339.2 ± 1765
pull
Entries 43
Mean 16.33
Std Dev 32.98

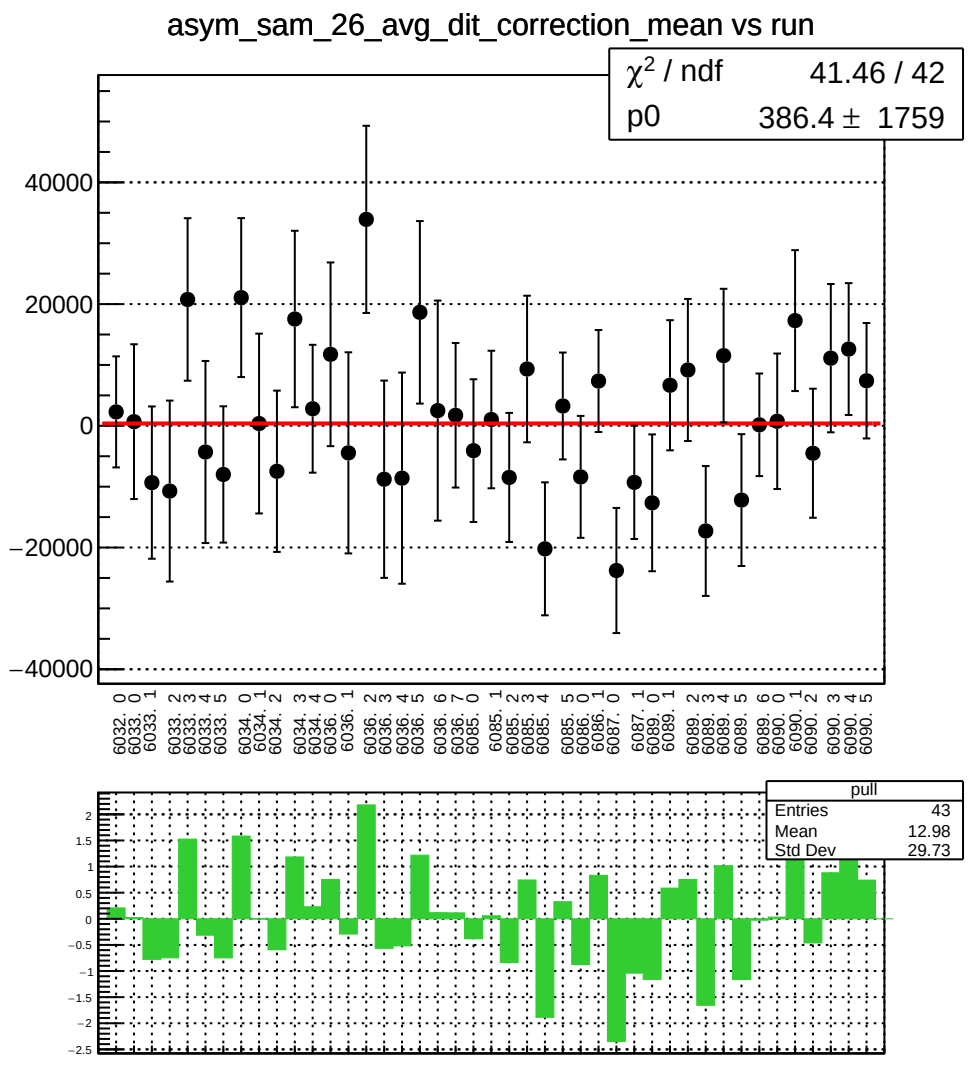

pull1D
Entries 43
Mean 0.02679
Std Dev 0.9841

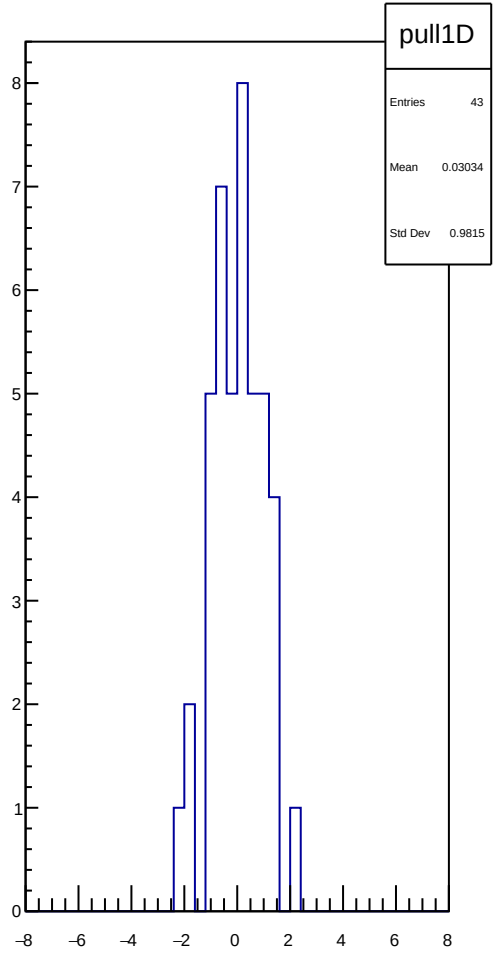

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.72e+04 / 42
p0 1155 ± 1.248
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

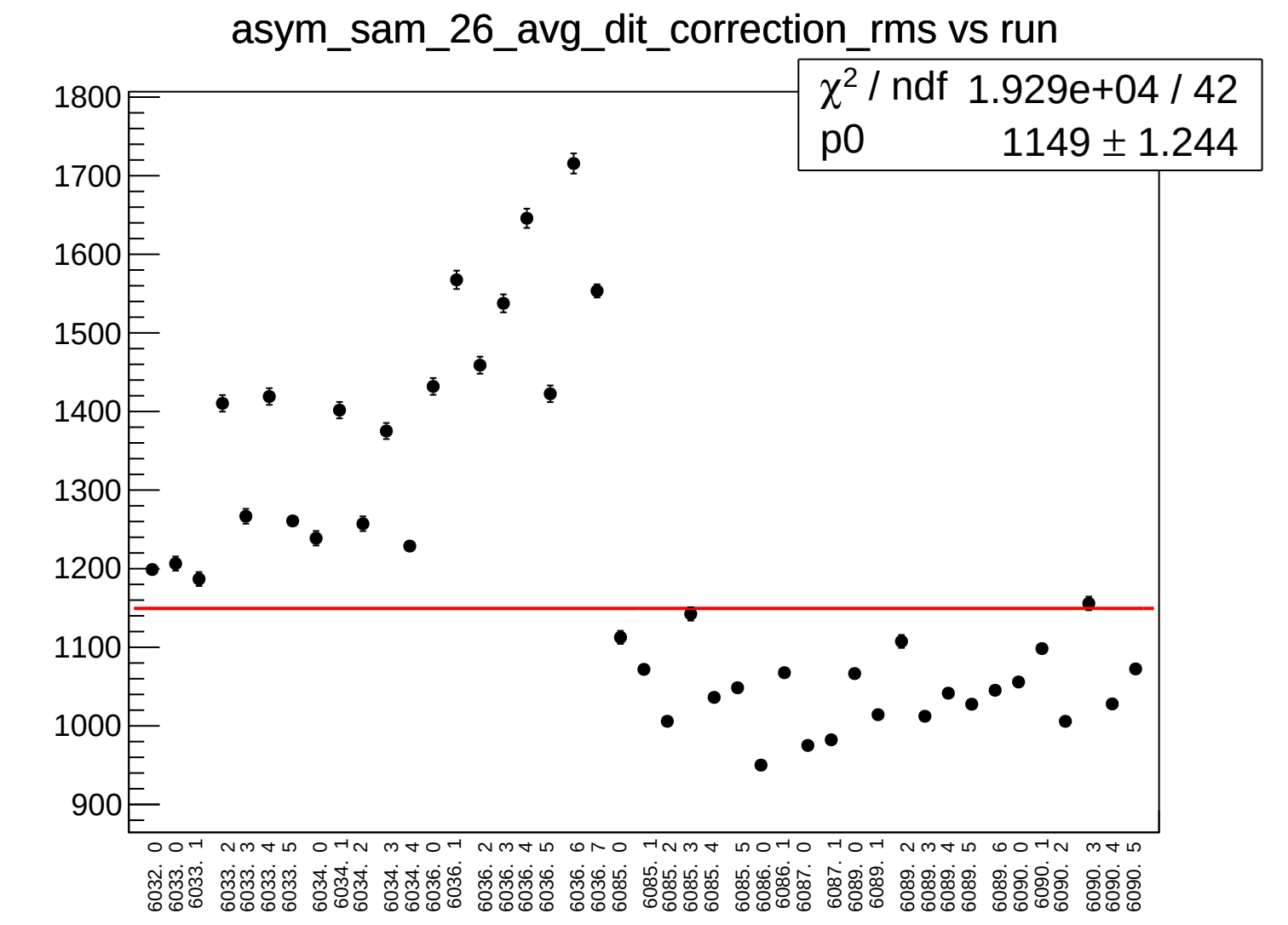

dit_asym_sam_26_avg_mean vs run
χ² / ndf 36.18 / 42
p0 271 ± 194.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

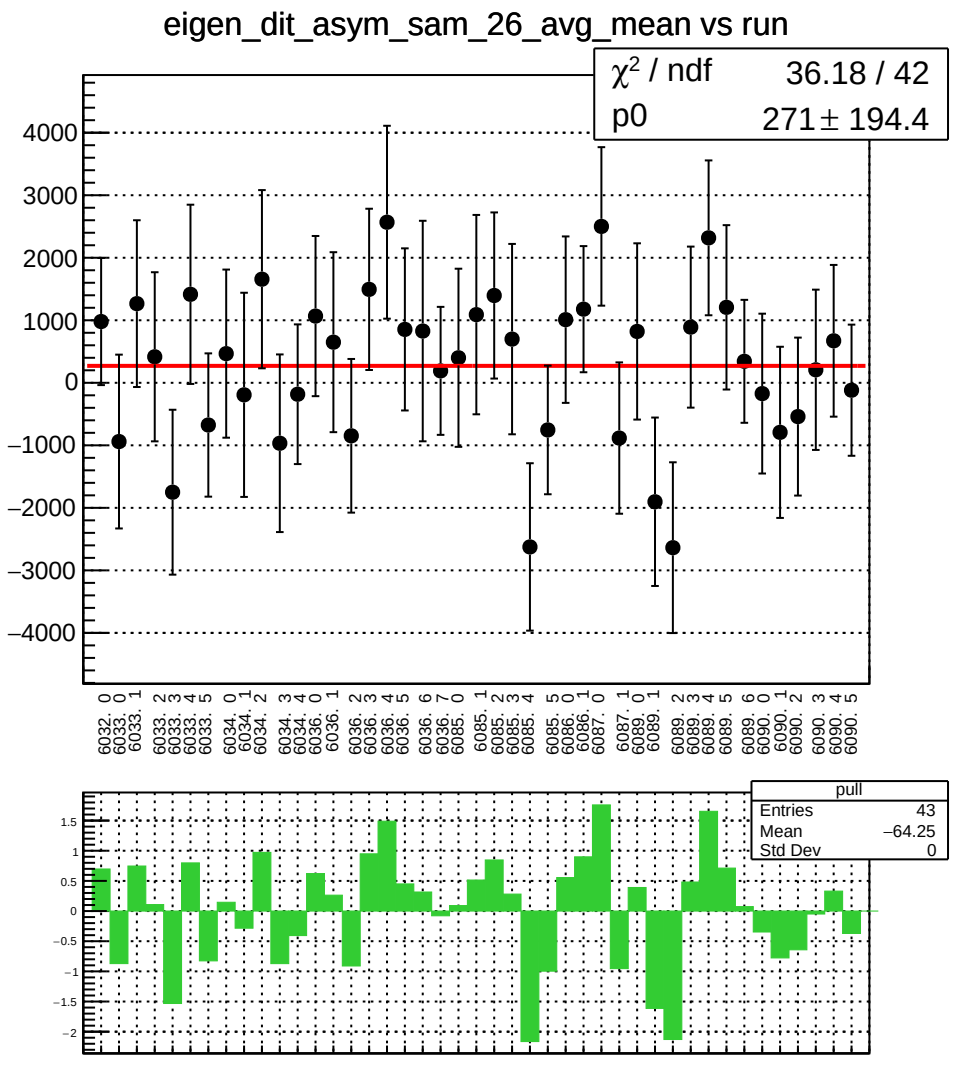

pull1D
Entries 43
Mean 0.007472
Std Dev 0.9173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

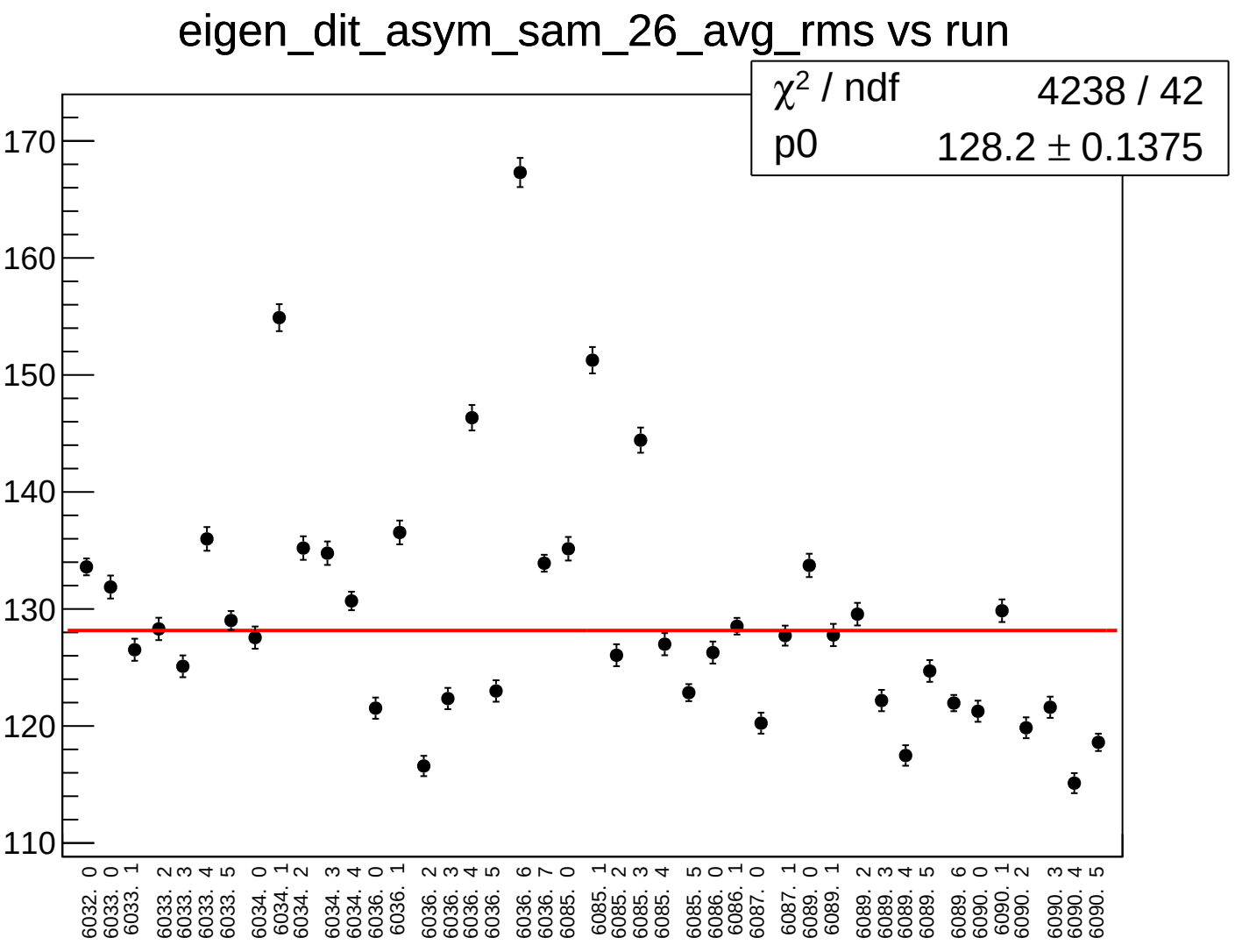

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4238 / 42
p0 128.2 ± 0.1375
170
160
150
140
130
120
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

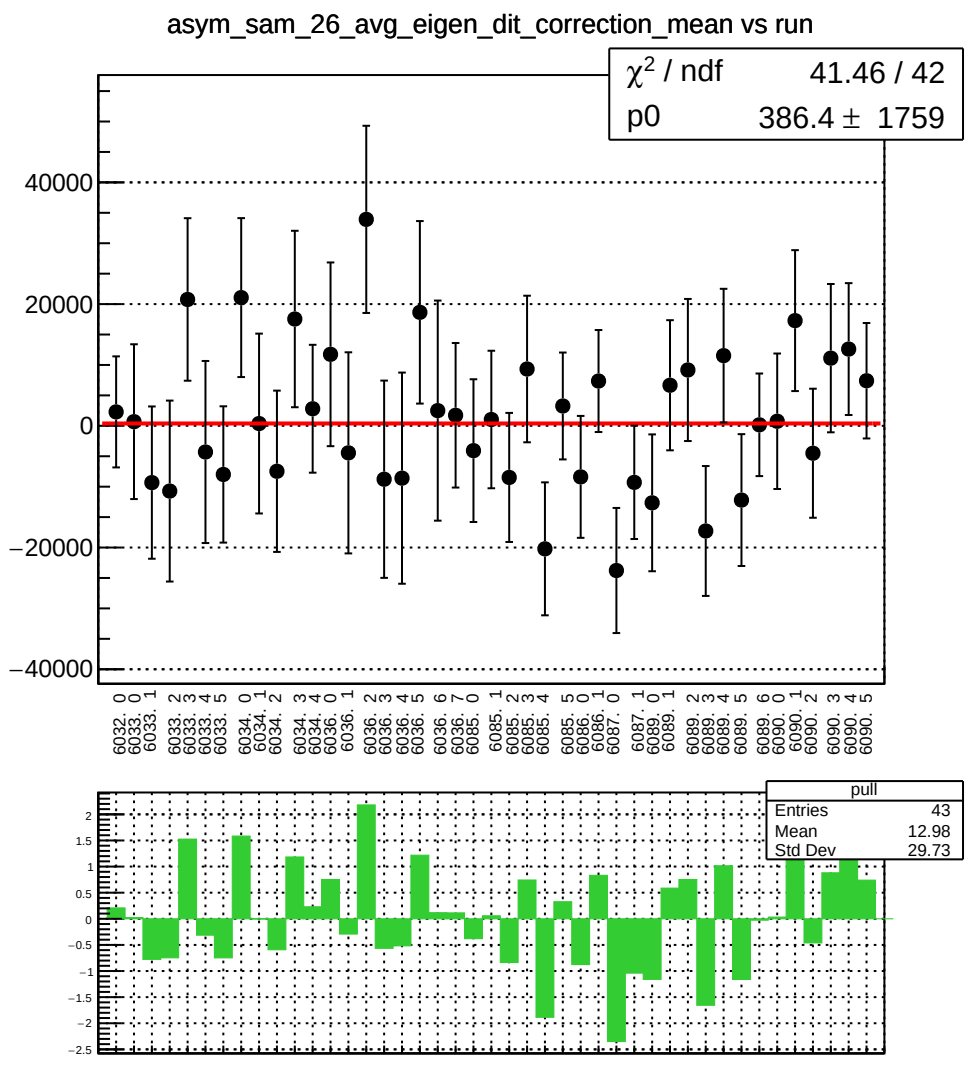

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 41.46 / 42
p0 386.4 ± 1759
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.98
Std Dev 29.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

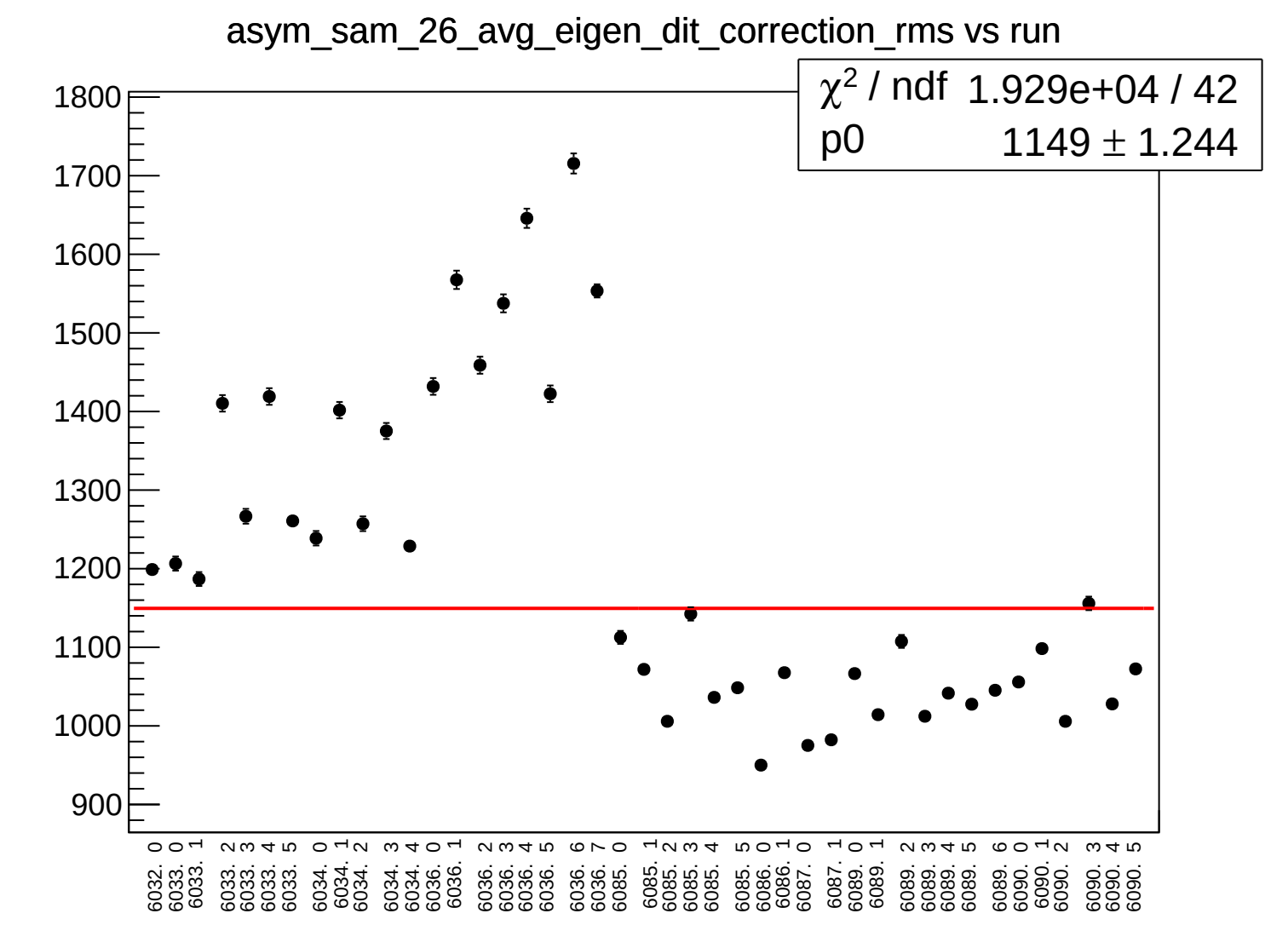

pull1D
Entries 43
Mean 0.03034
Std Dev 0.9815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

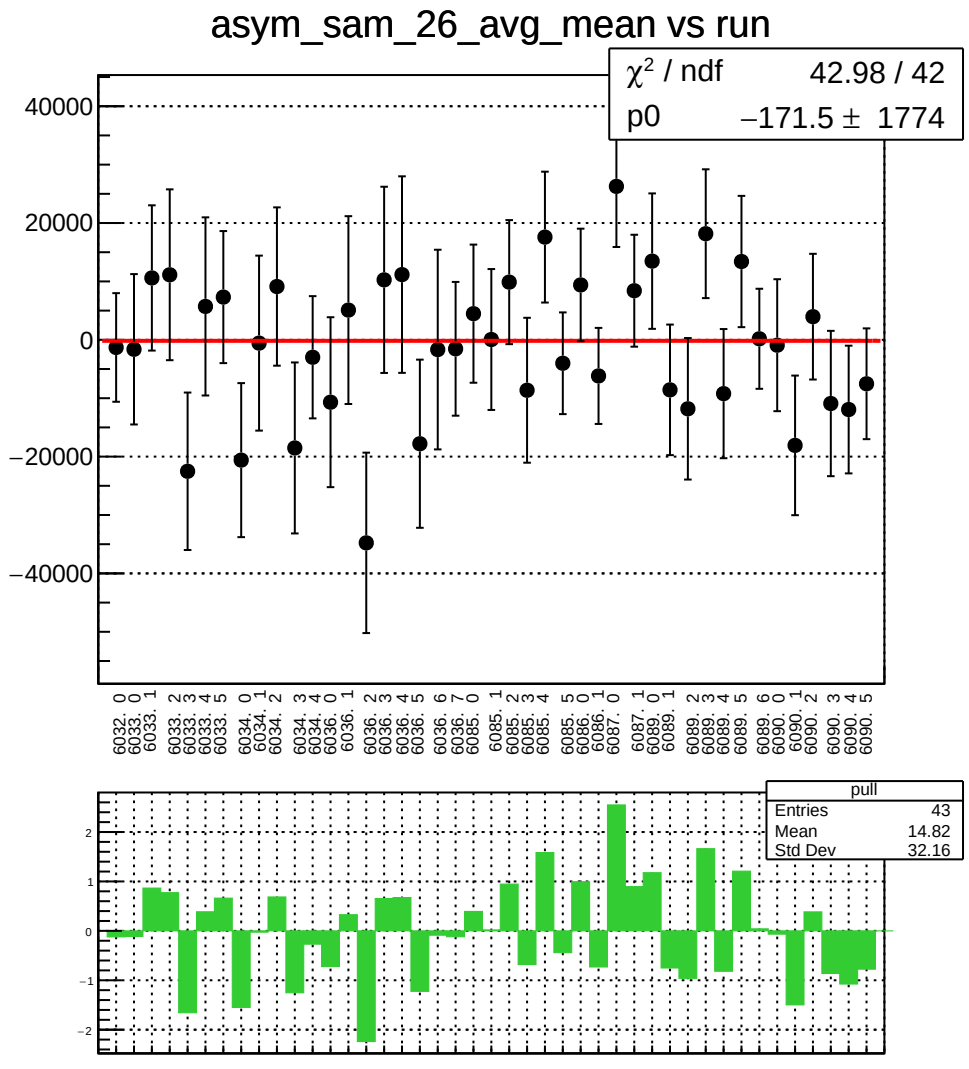

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.929e+04 / 42
p0 1149 ± 1.244
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

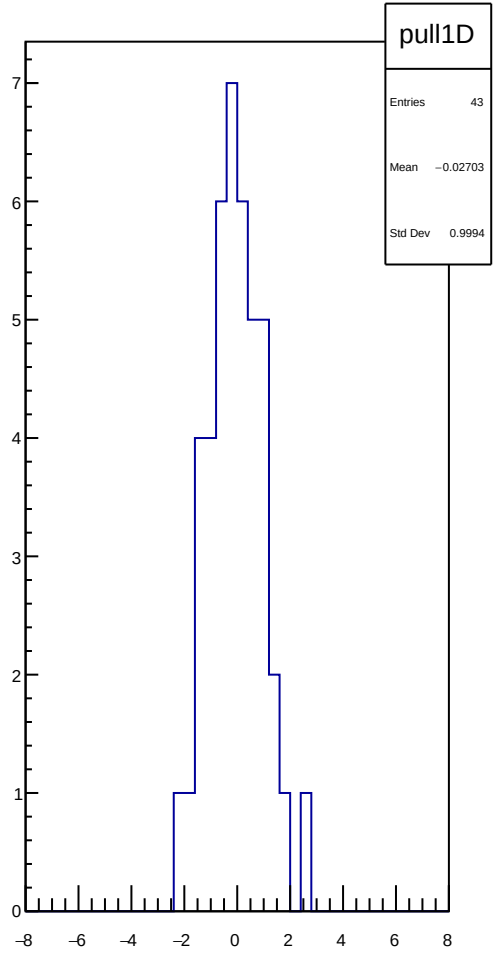

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 36.18 / 42
p0 271 ± 194.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.007471
Std Dev 0.9173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

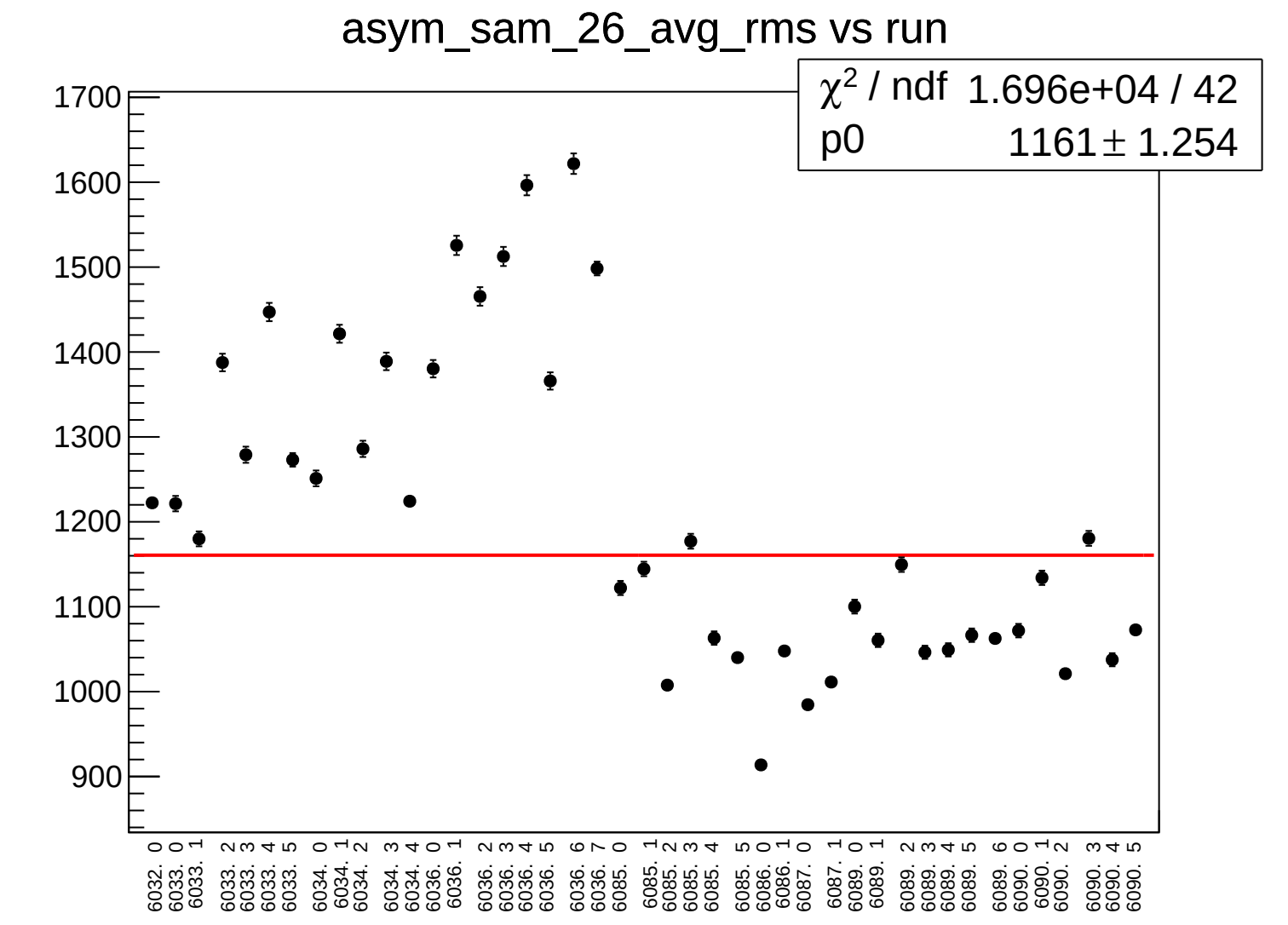

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4238 / 42
p0 128.2 ± 0.1375
170
160
150
140
130
120
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

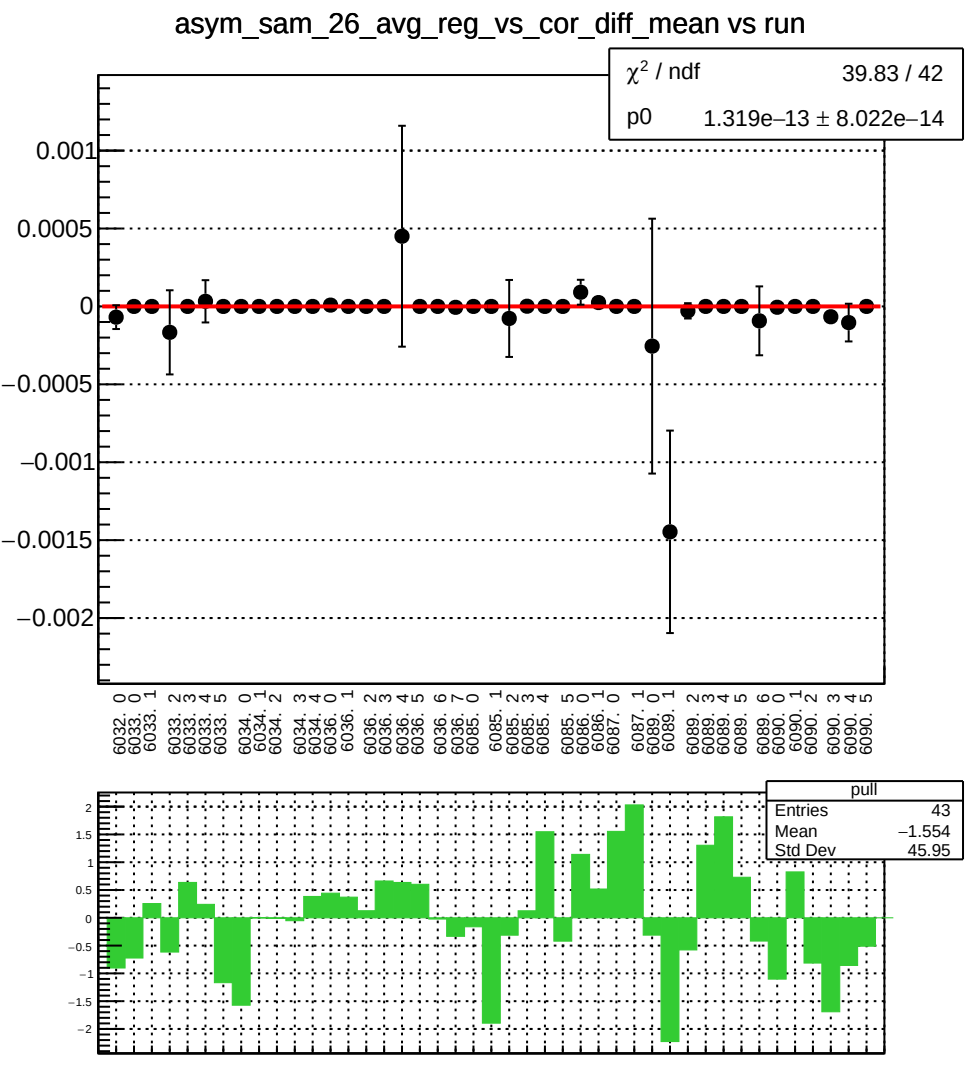

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 41.46 / 42
p0 386.4 ± 1759
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.98
Std Dev 29.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03034
Std Dev 0.9815
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

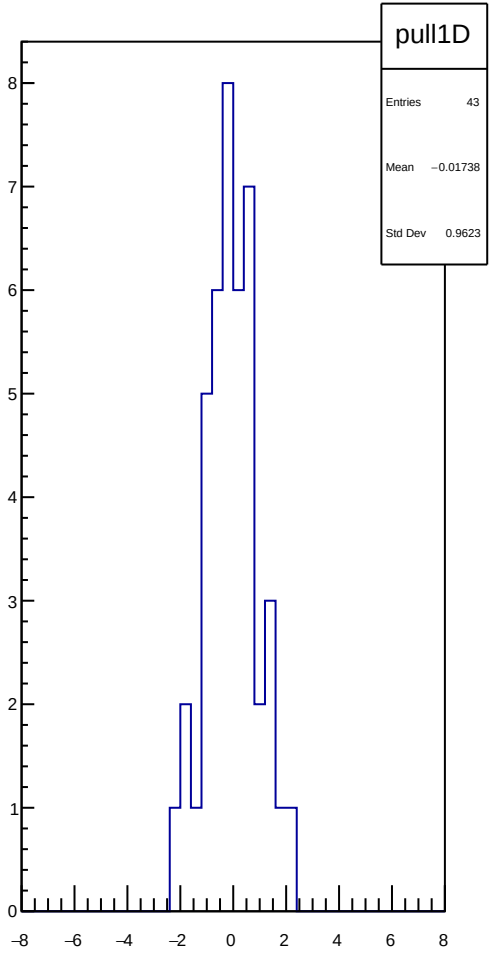

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.929e+04 / 42
p0 1149 ± 1.244
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

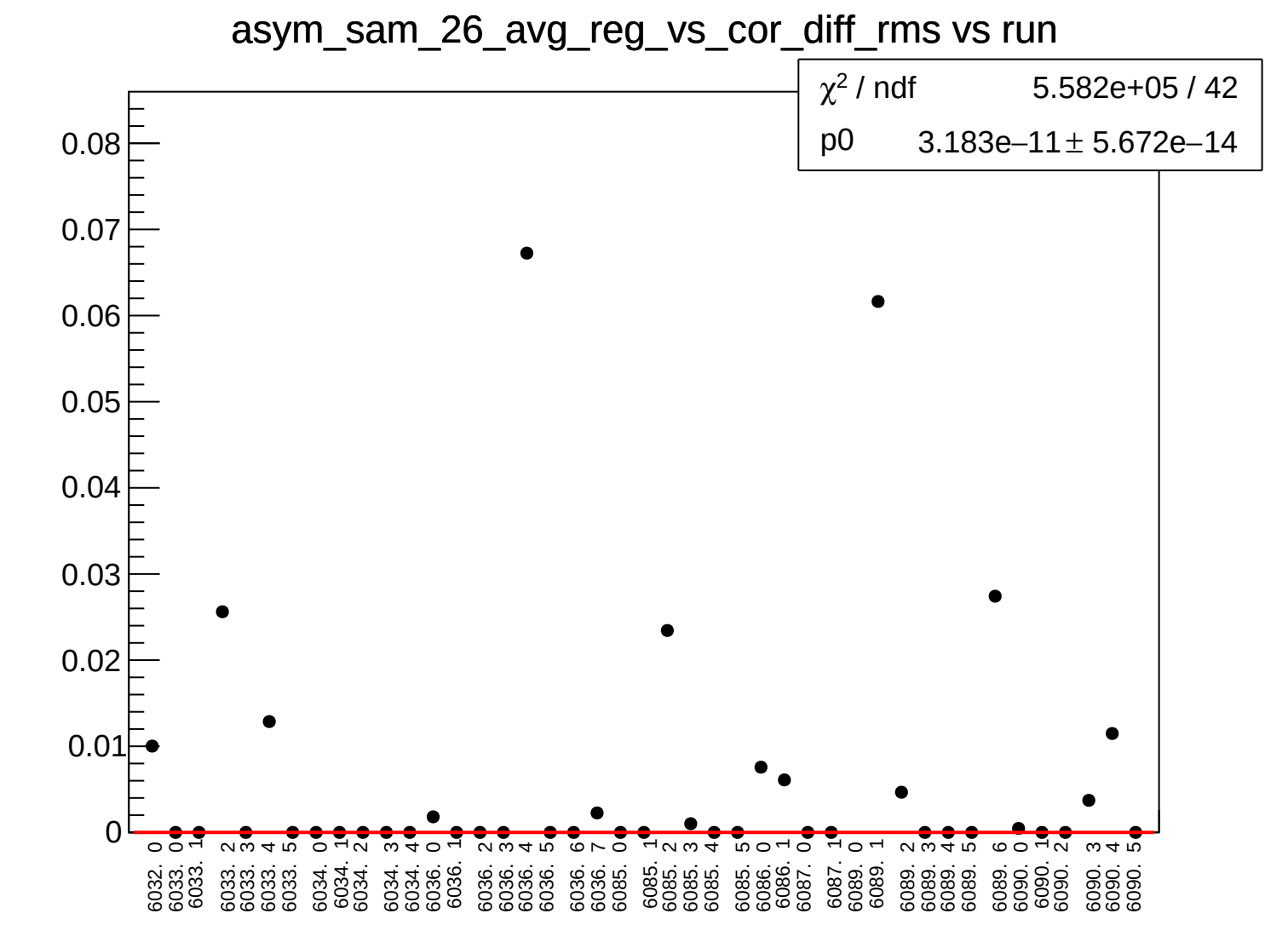

asym_sam_26_avg_mean vs run
χ² / ndf 42.98 / 42
p0 −171.5 ± 1774
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.82
Std Dev 32.16
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.02703
Std Dev 0.9994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

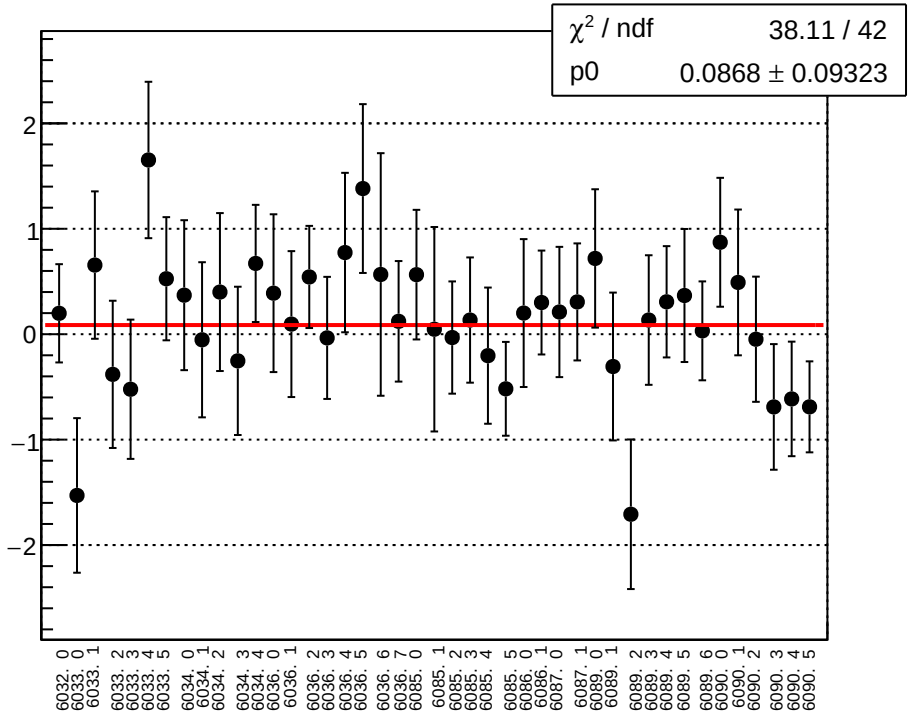

asym_sam_26_avg_rms vs run
χ² / ndf 1.696e+04 / 42
p0 1161 ± 1.254
1700
1600
1500
1400
1300
1200
1100
1000
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

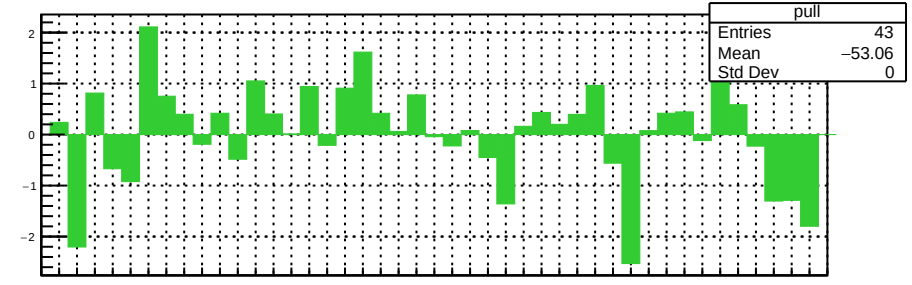

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 39.83 / 42
p0 1.319e−13 ± 8.022e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.554
Std Dev 45.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

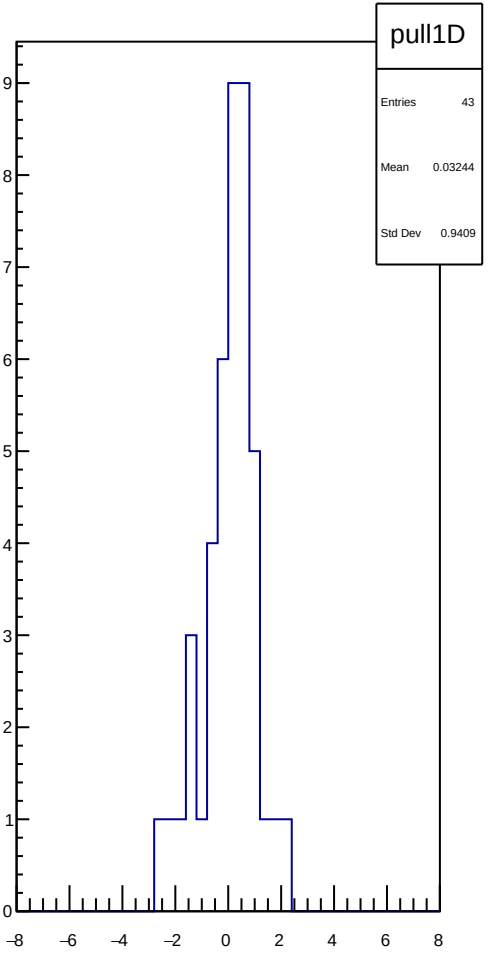

pull1D
Entries 43
Mean −0.01738
Std Dev 0.9623
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

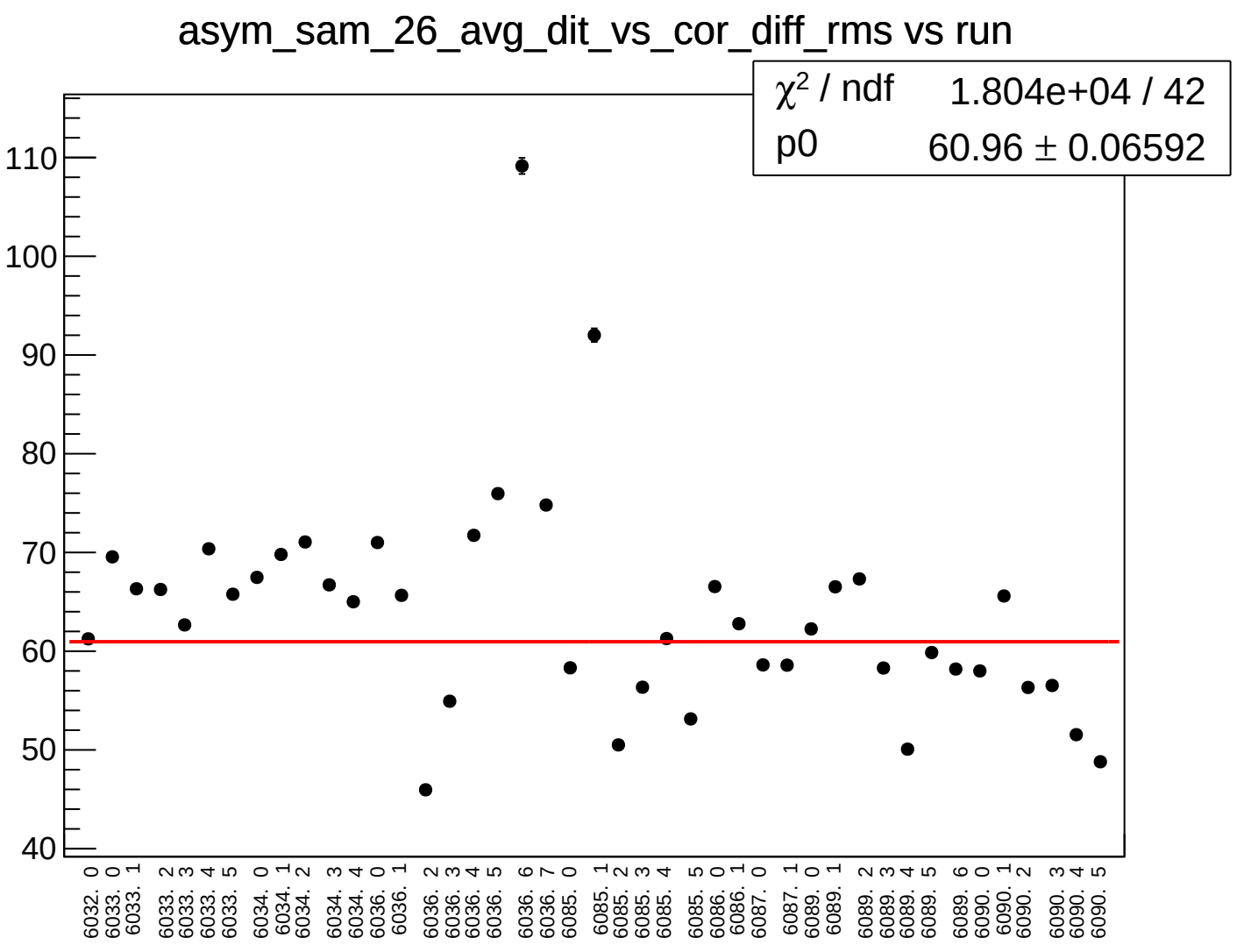

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.582e+05 / 42
p0 3.183e−11 ± 5.672e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

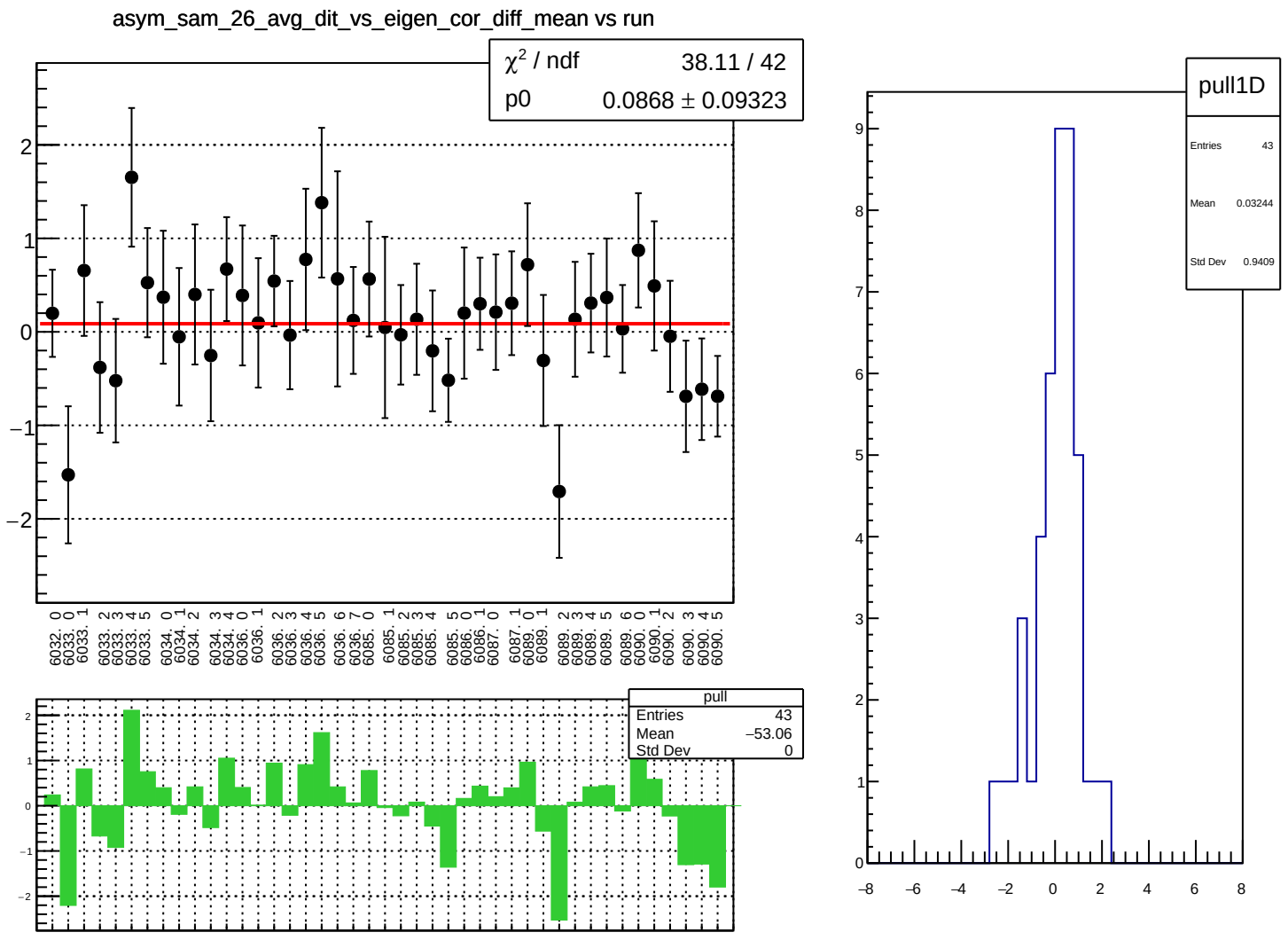
asym_sam_26_avg_dit_vs_cor_diff_mean vs run

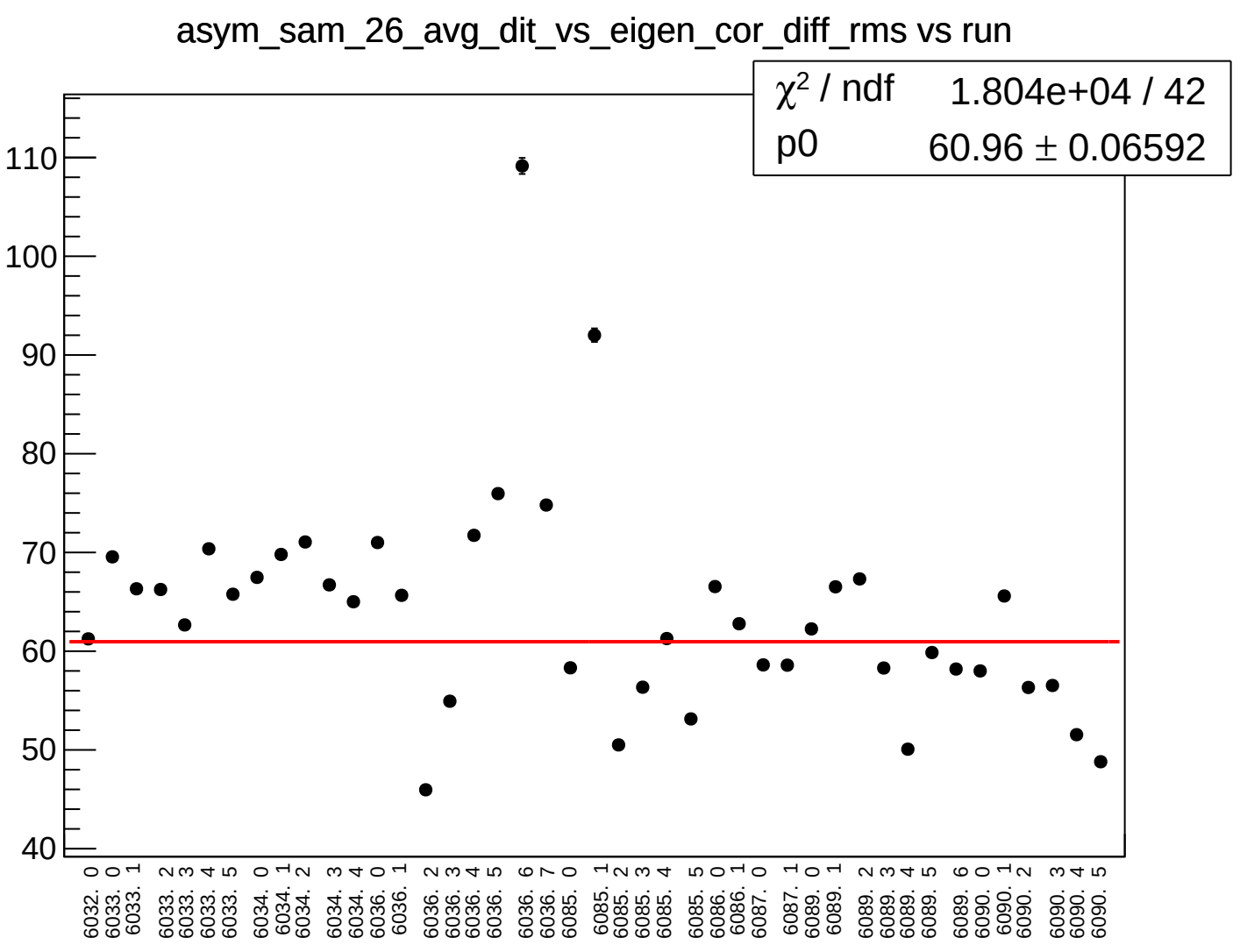


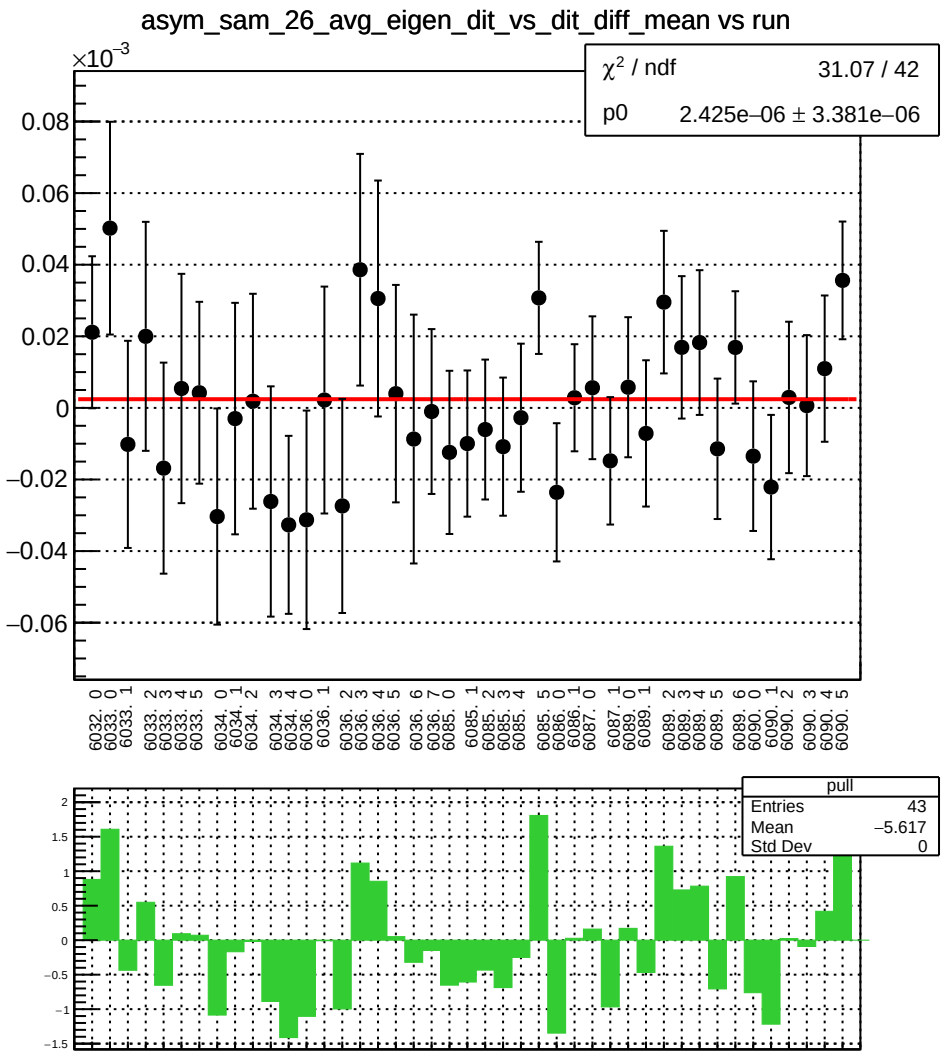


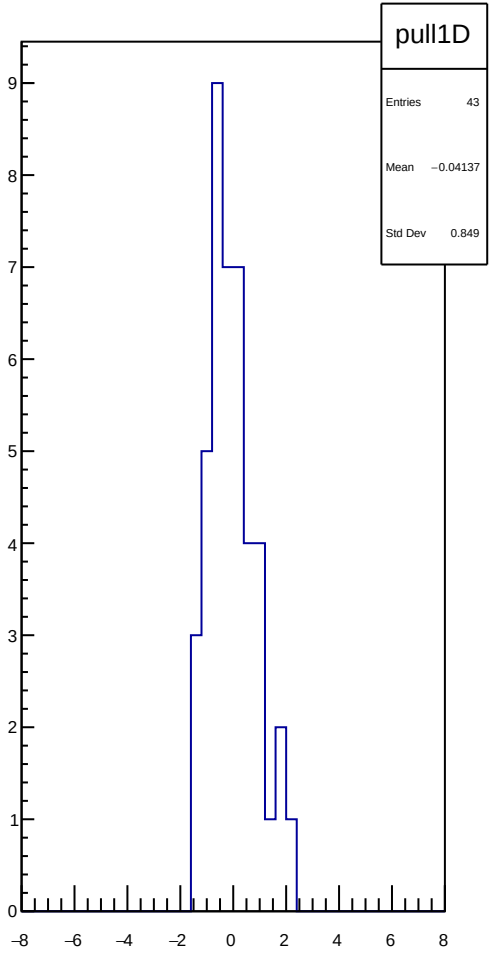


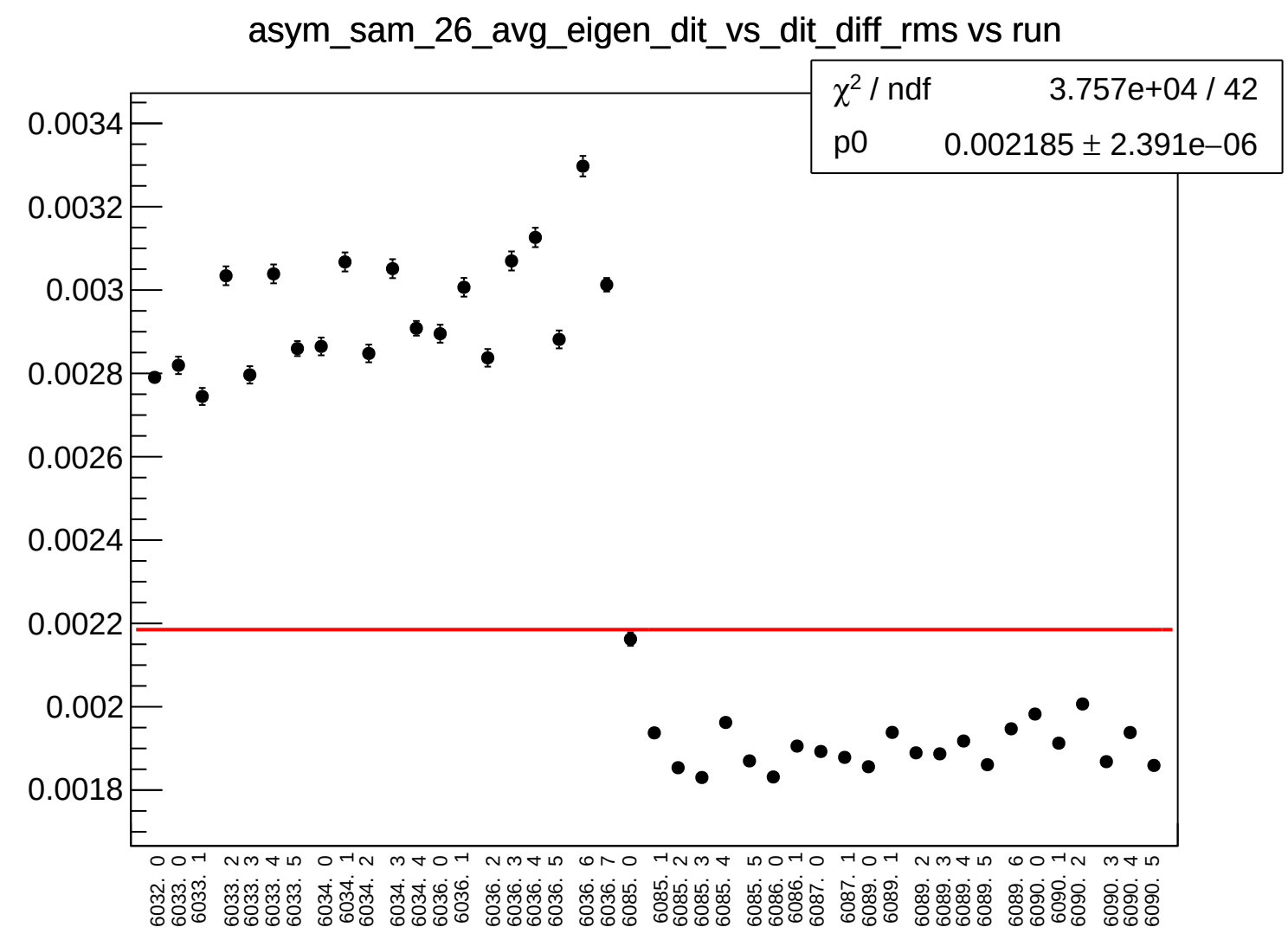

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.804e+04 / 42
p0 60.96 ± 0.06592
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

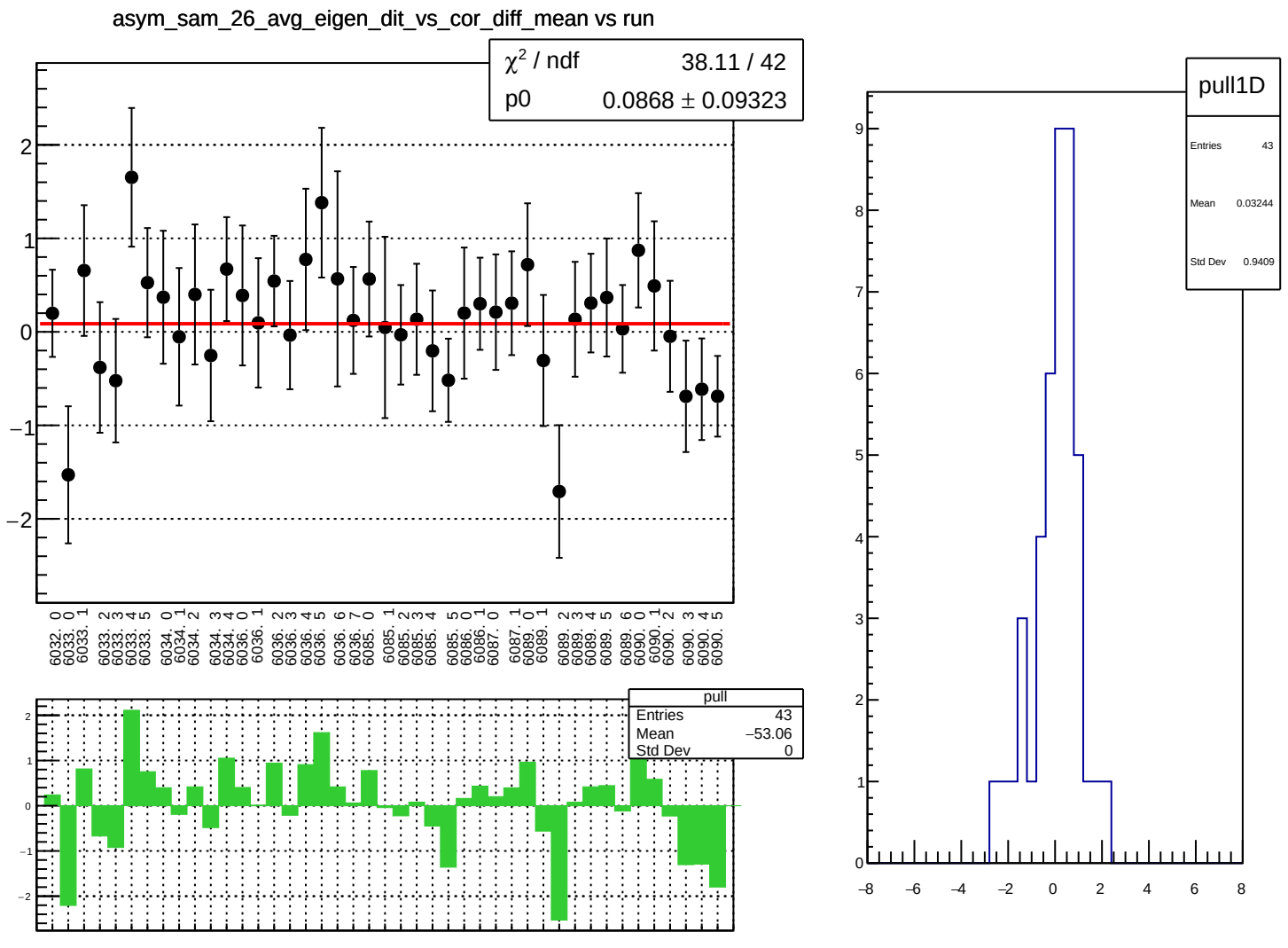

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.11 / 42
p0 0.0868 ± 0.09323
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −53.06
Std Dev 0
pull1D
Entries 43
Mean 0.03244
Std Dev 0.9409

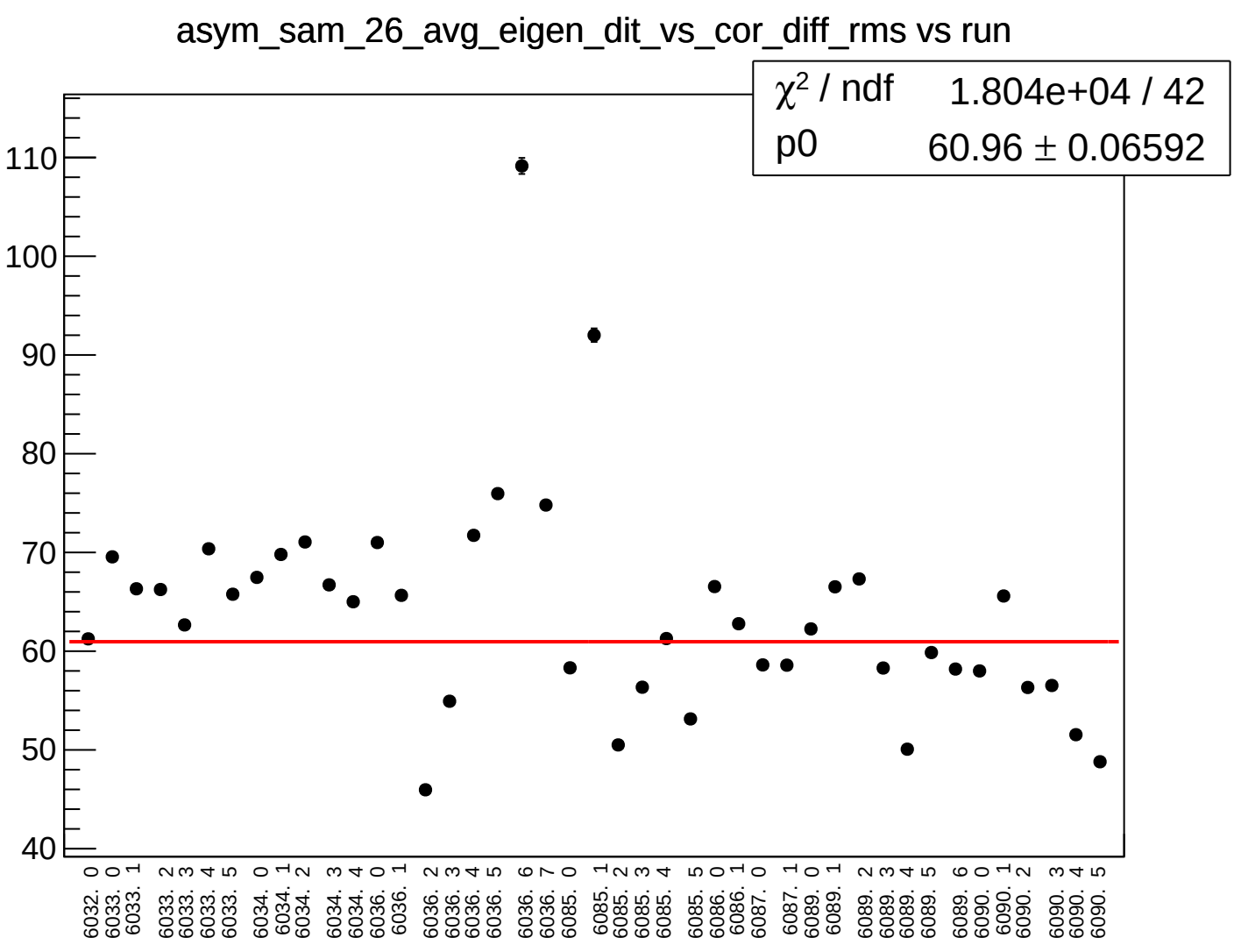

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.804e+04 / 42
p0 60.96 ± 0.06592
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

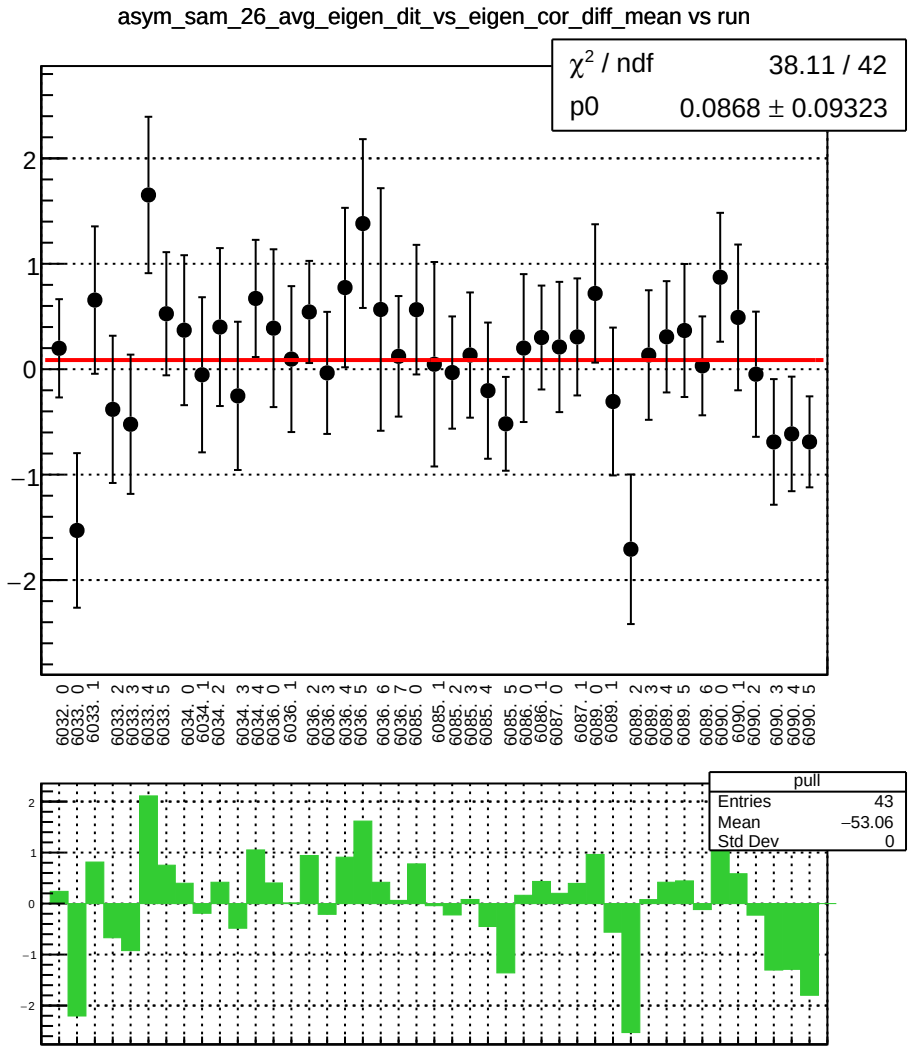

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.07 / 42
p0 2.425e−06 ± 3.381e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.617
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

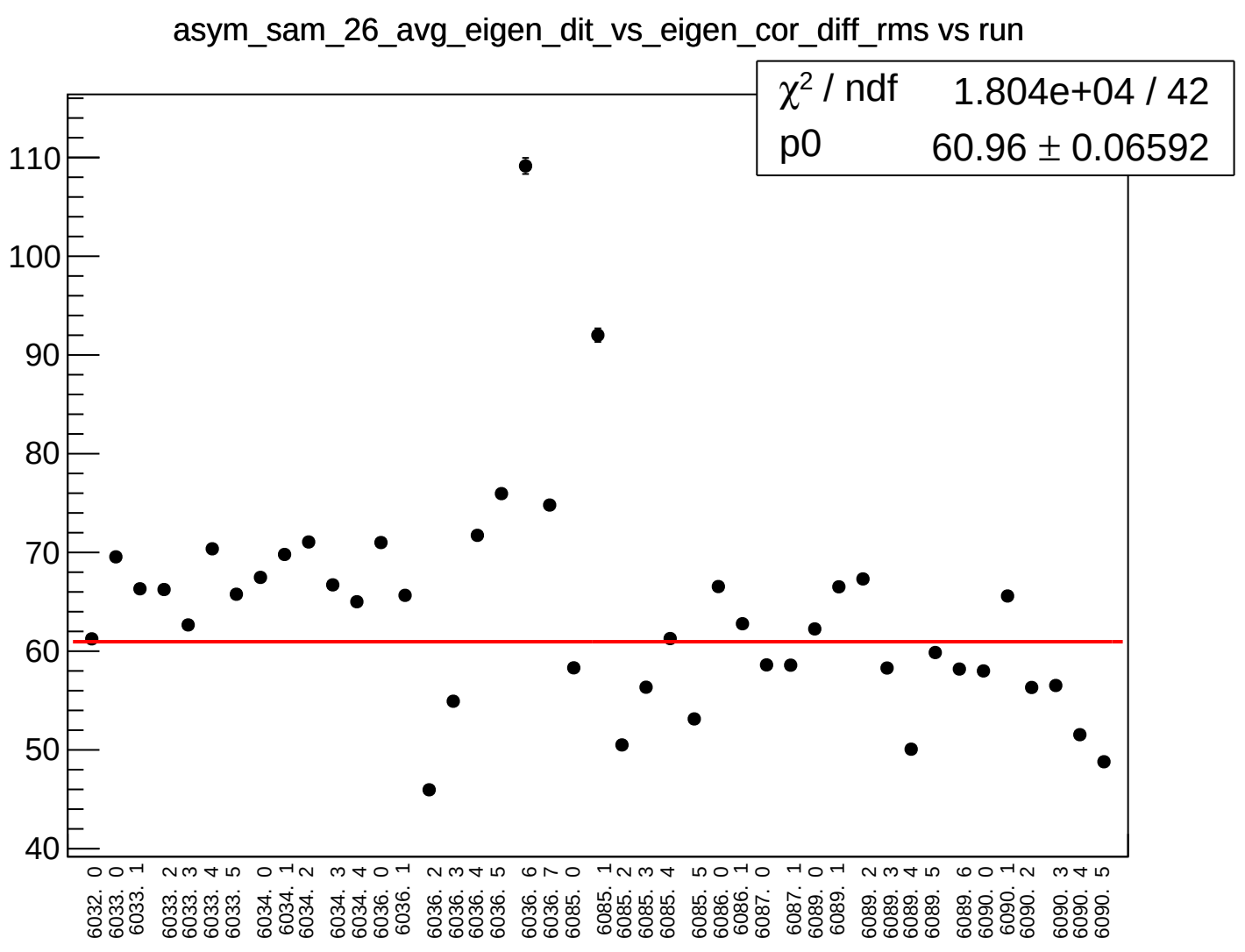

pull1D
Entries 43
Mean −0.04137
Std Dev 0.849
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

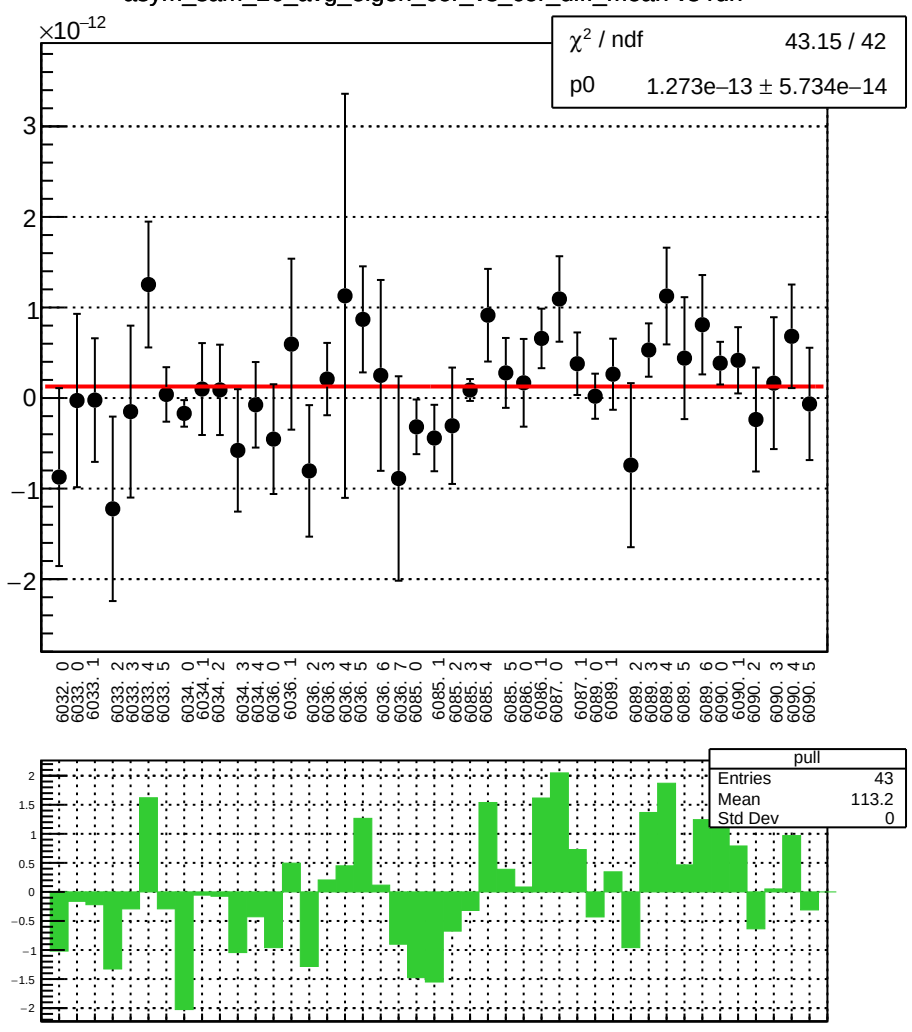

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.757e+04 / 42
p0 0.002185 ± 2.391e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

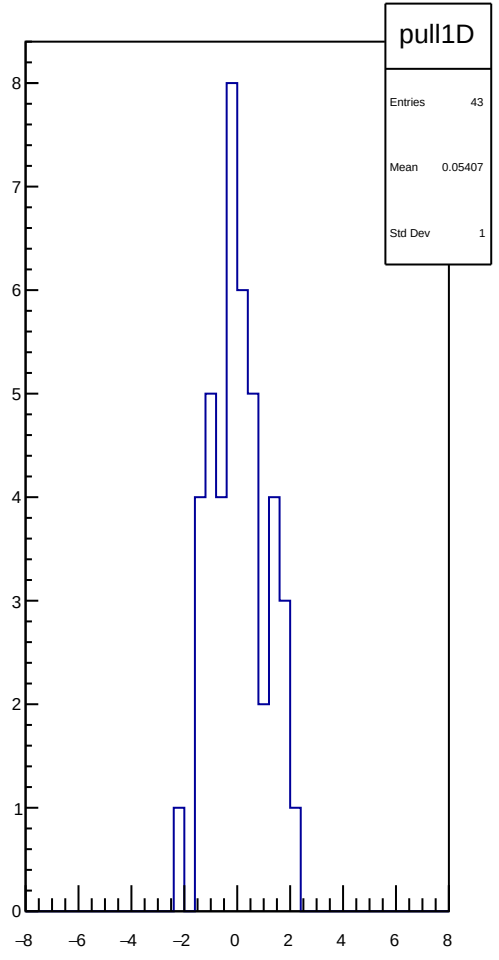

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.11 / 42
p0 0.0868 ± 0.09323
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −53.06
Std Dev 0
pull1D
Entries 43
Mean 0.03244
Std Dev 0.9409

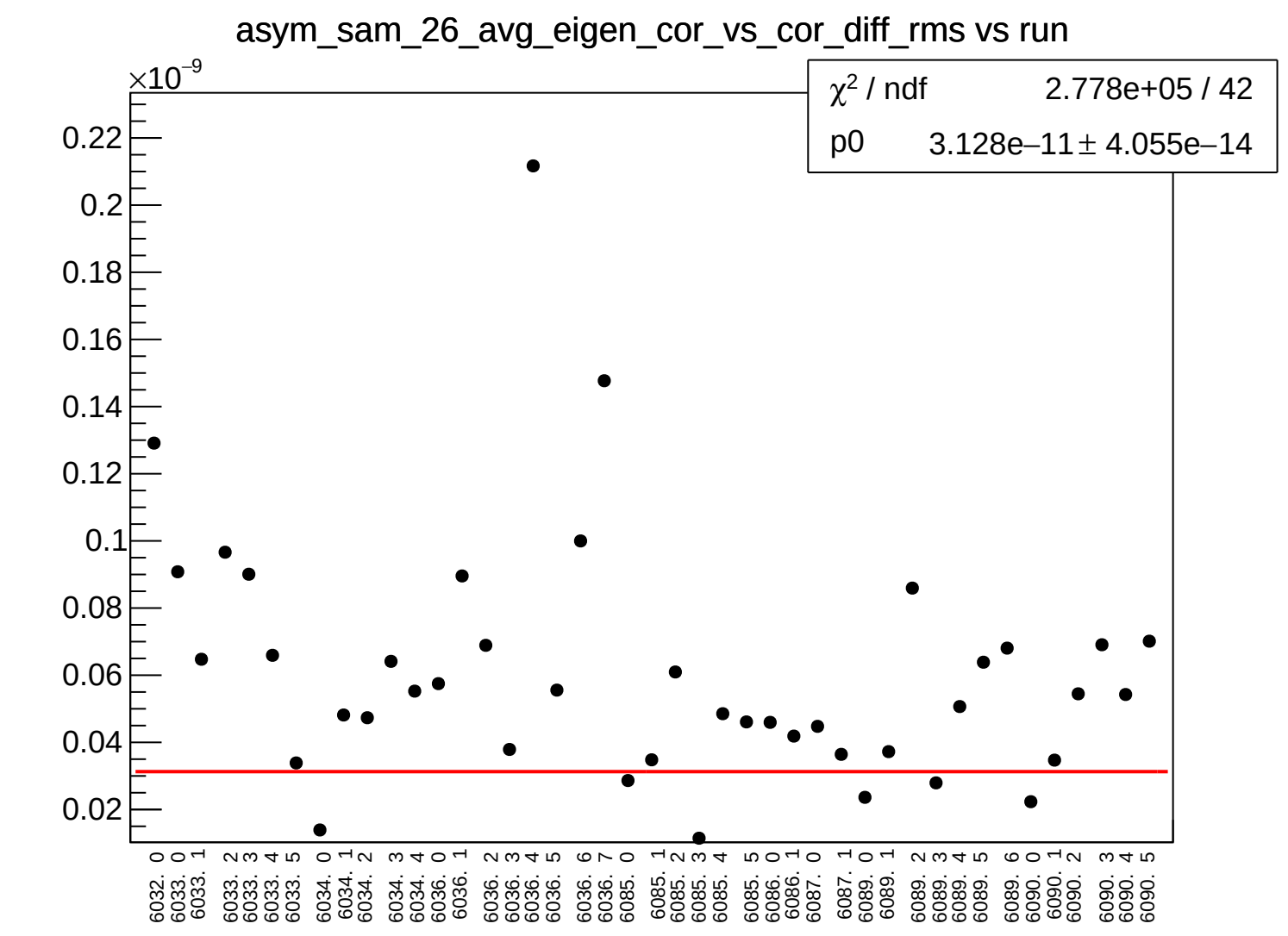

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.804e+04 / 42
p0 60.96 ± 0.06592
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

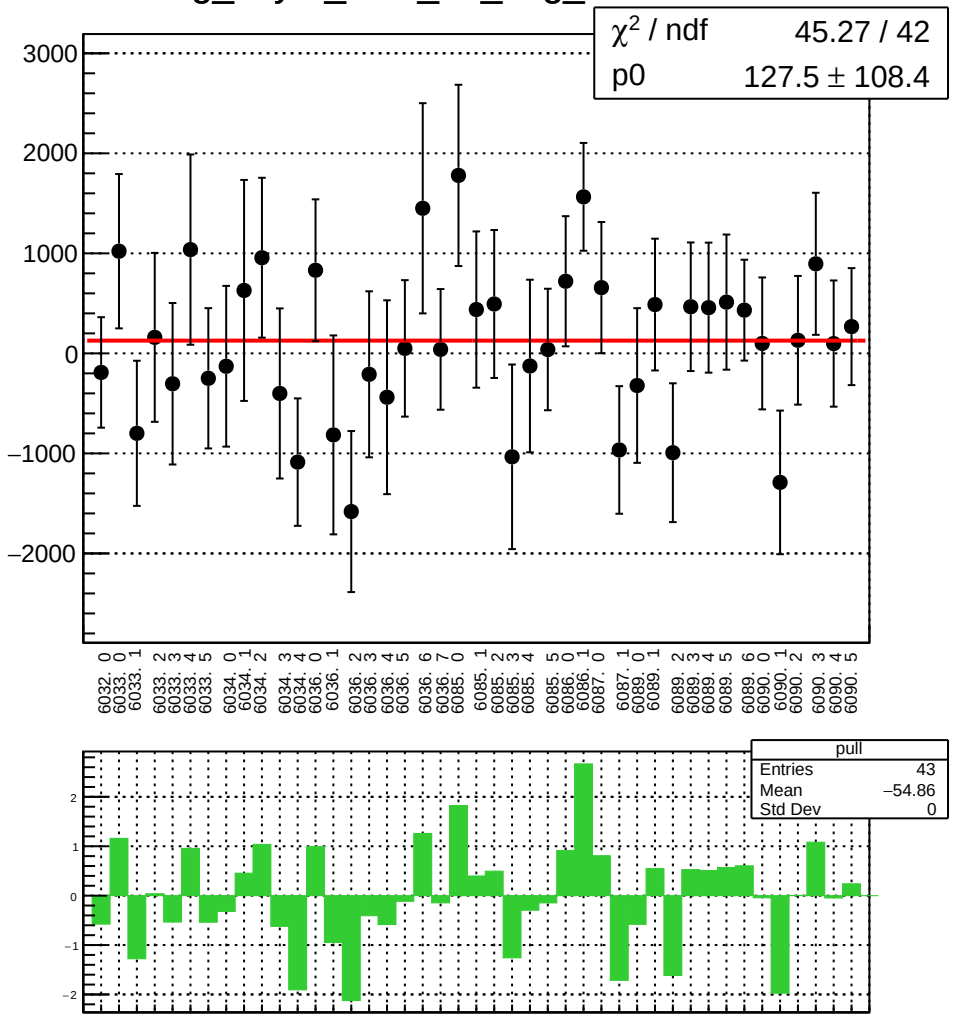

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.11 / 42
p0 0.0868 ± 0.09323
pull
Entries 43
Mean −53.06
Std Dev 0
pull1D
Entries 43
Mean 0.03244
Std Dev 0.9409

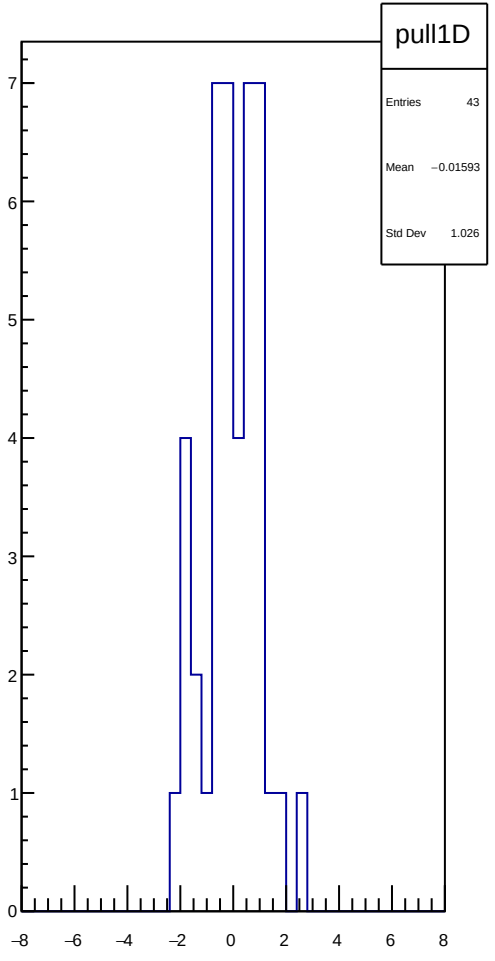

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.804e+04 / 42
p0 60.96 ± 0.06592
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

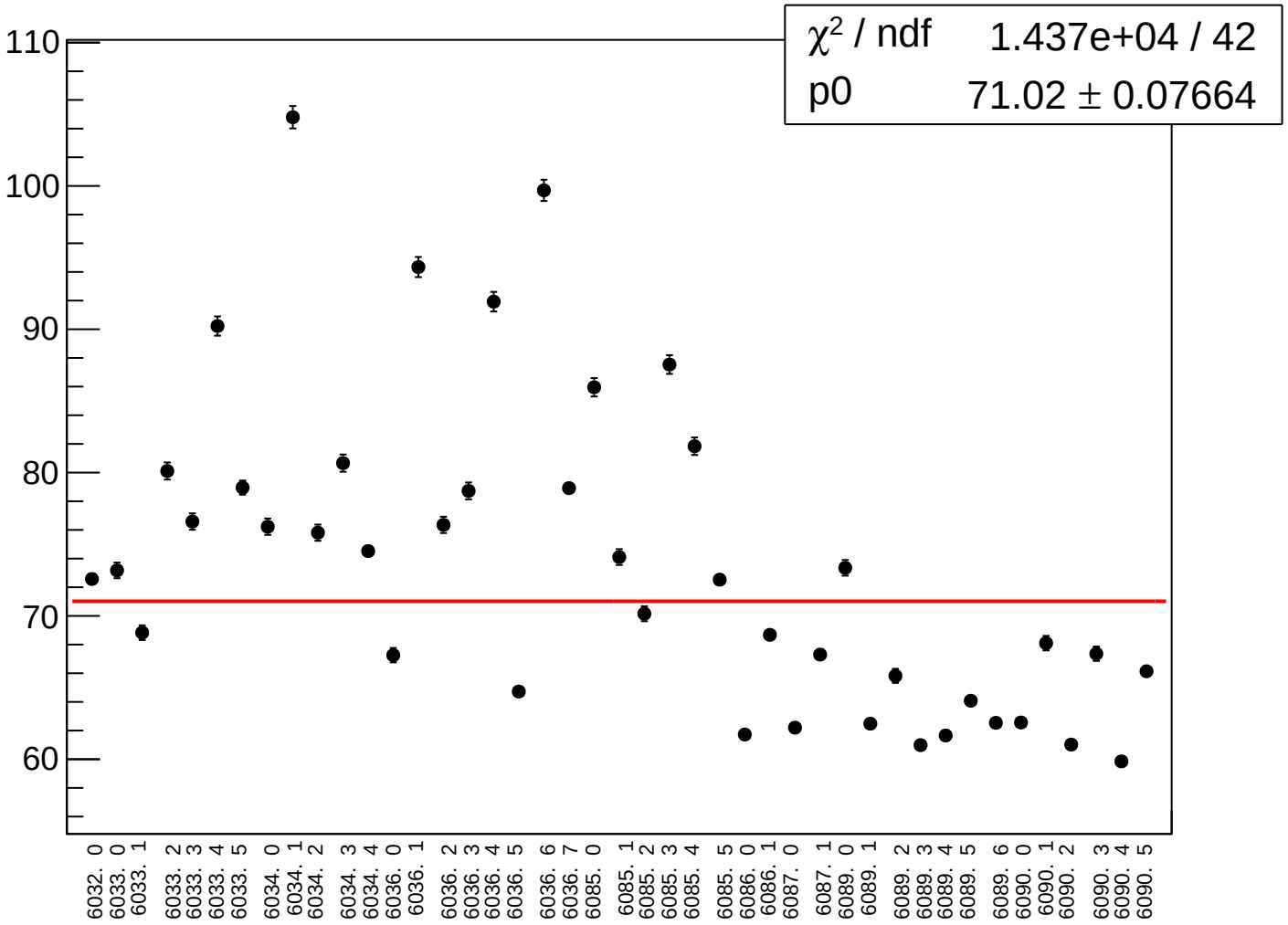

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.15 / 42
p0 1.273e−13 ± 5.734e−14
pull
Entries 43
Mean 113.2
Std Dev 0

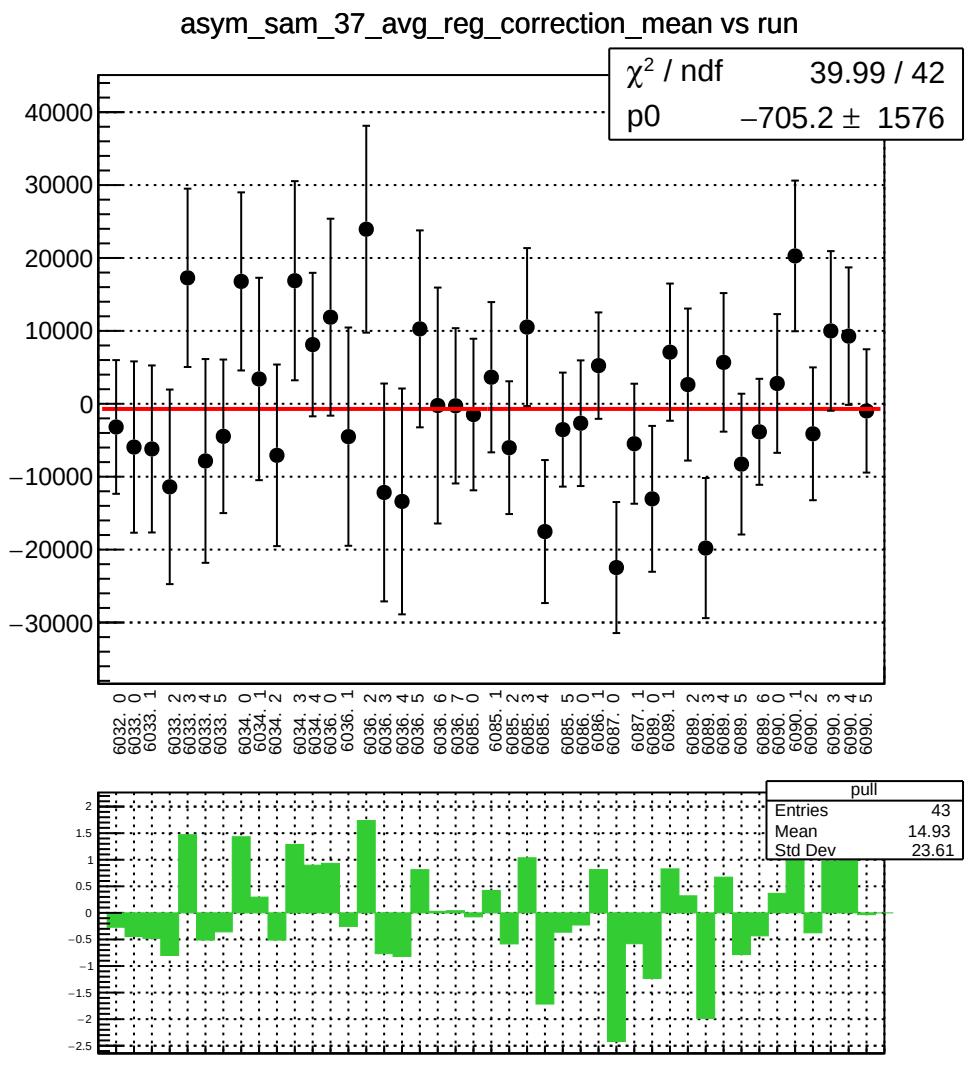

pull1D
Entries 43
Mean 0.05407
Std Dev 1

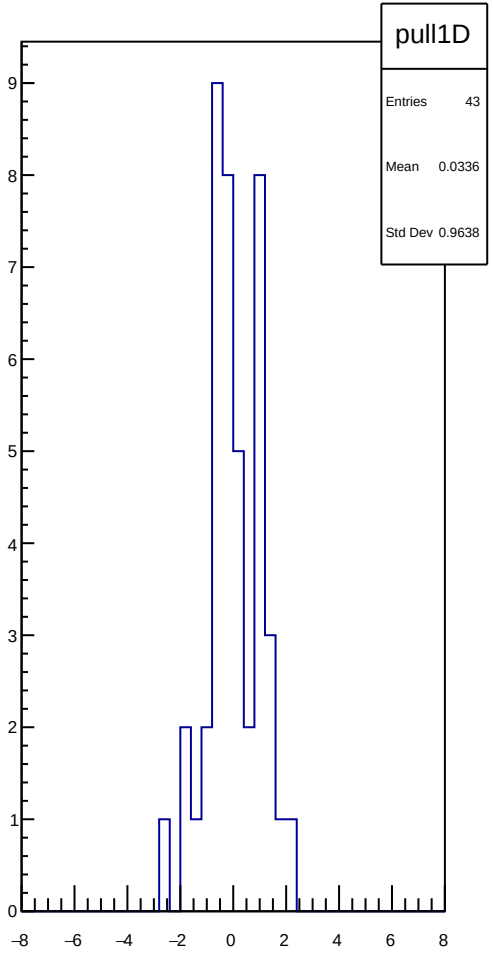

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.778e+05 / 42
p0 3.128e−11 ± 4.055e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

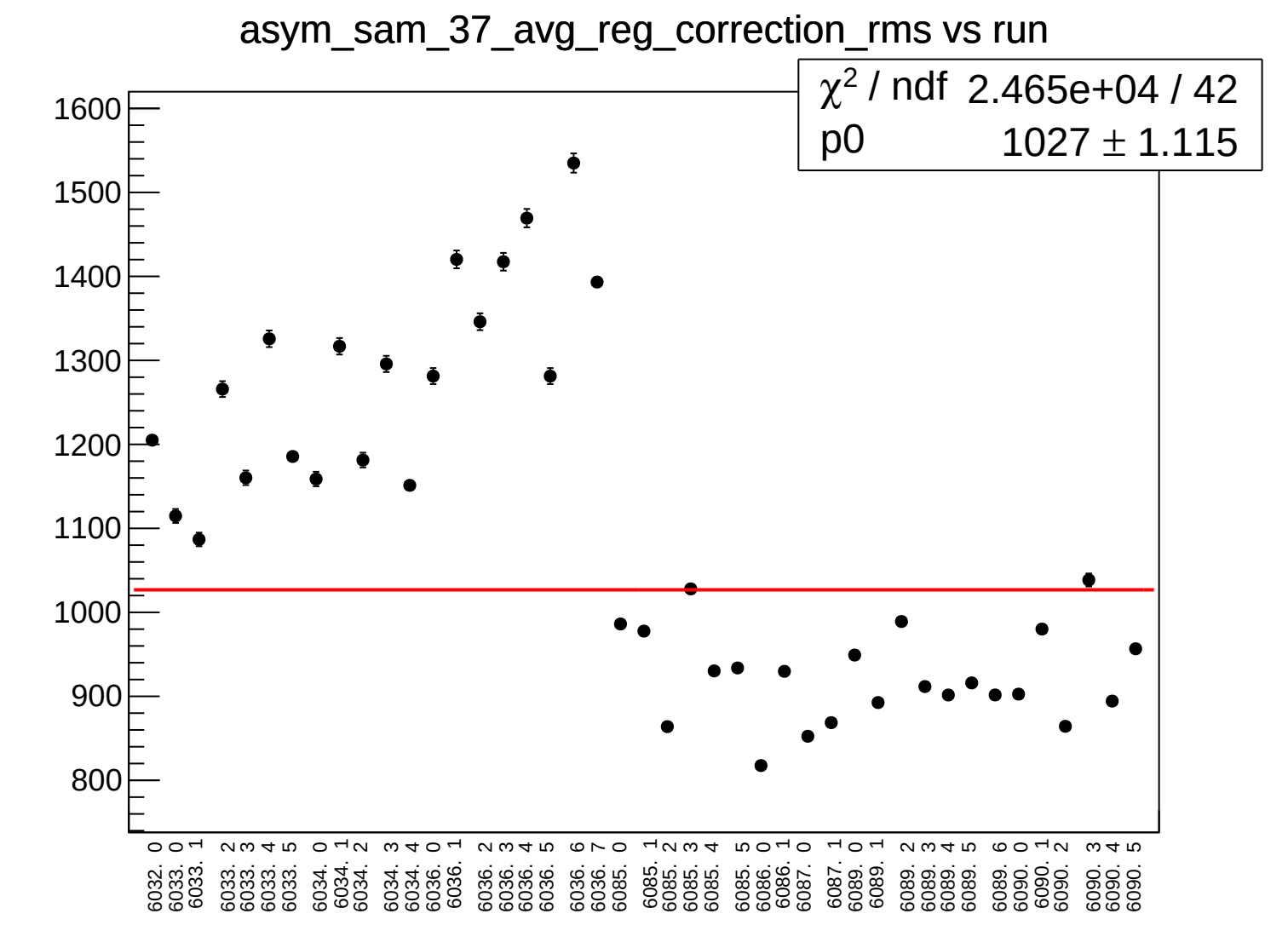

reg_asym_sam_37_avg_mean vs run
χ² / ndf 45.27 / 42
p0 127.5 ± 108.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −54.86
Std Dev 0
2
1
0
−1
−2

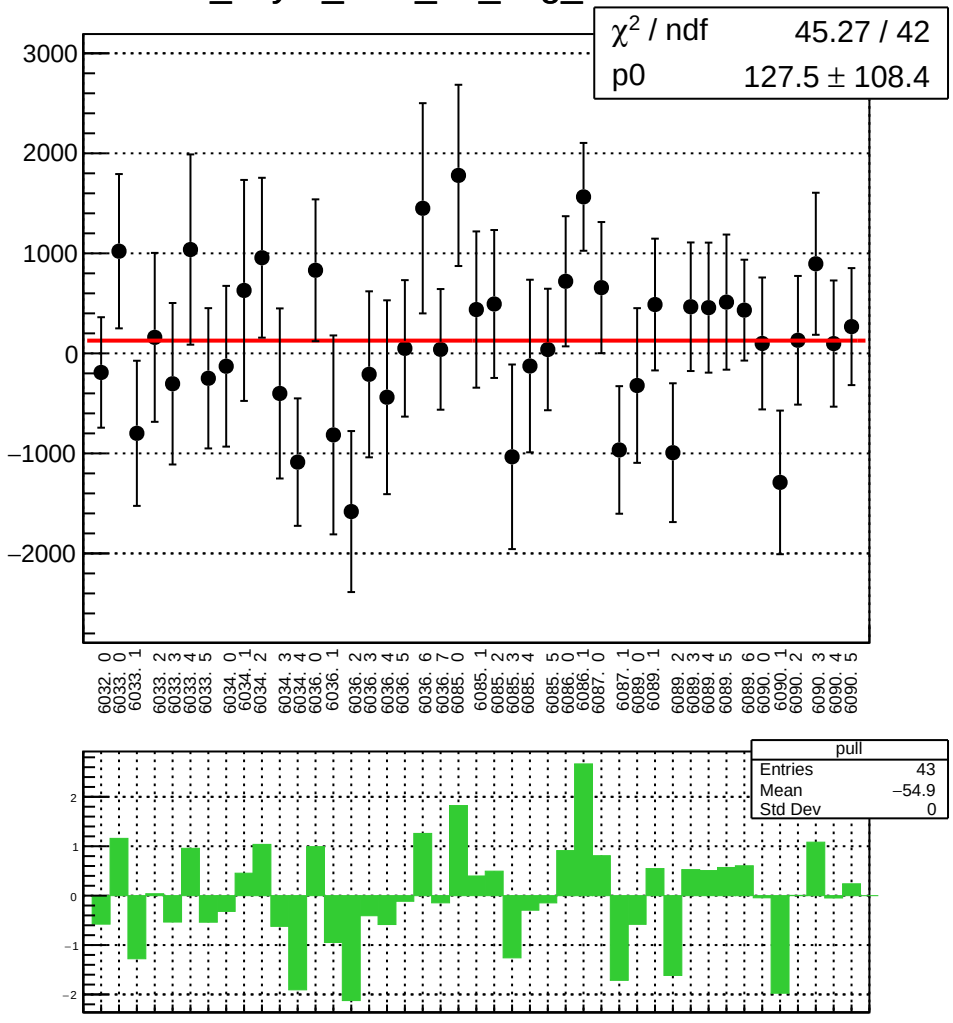

pull1D
Entries 43
Mean −0.01593
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

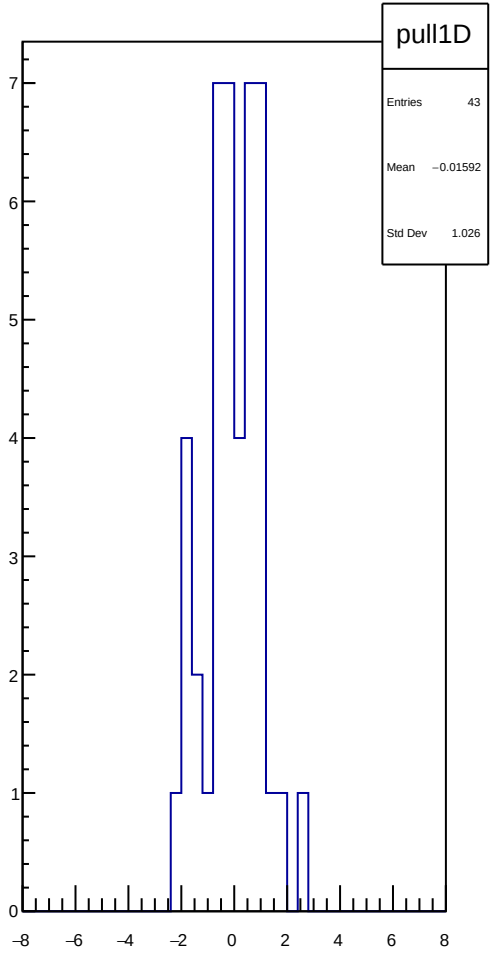

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.437e+04 / 42
p0 71.02 ± 0.07664
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

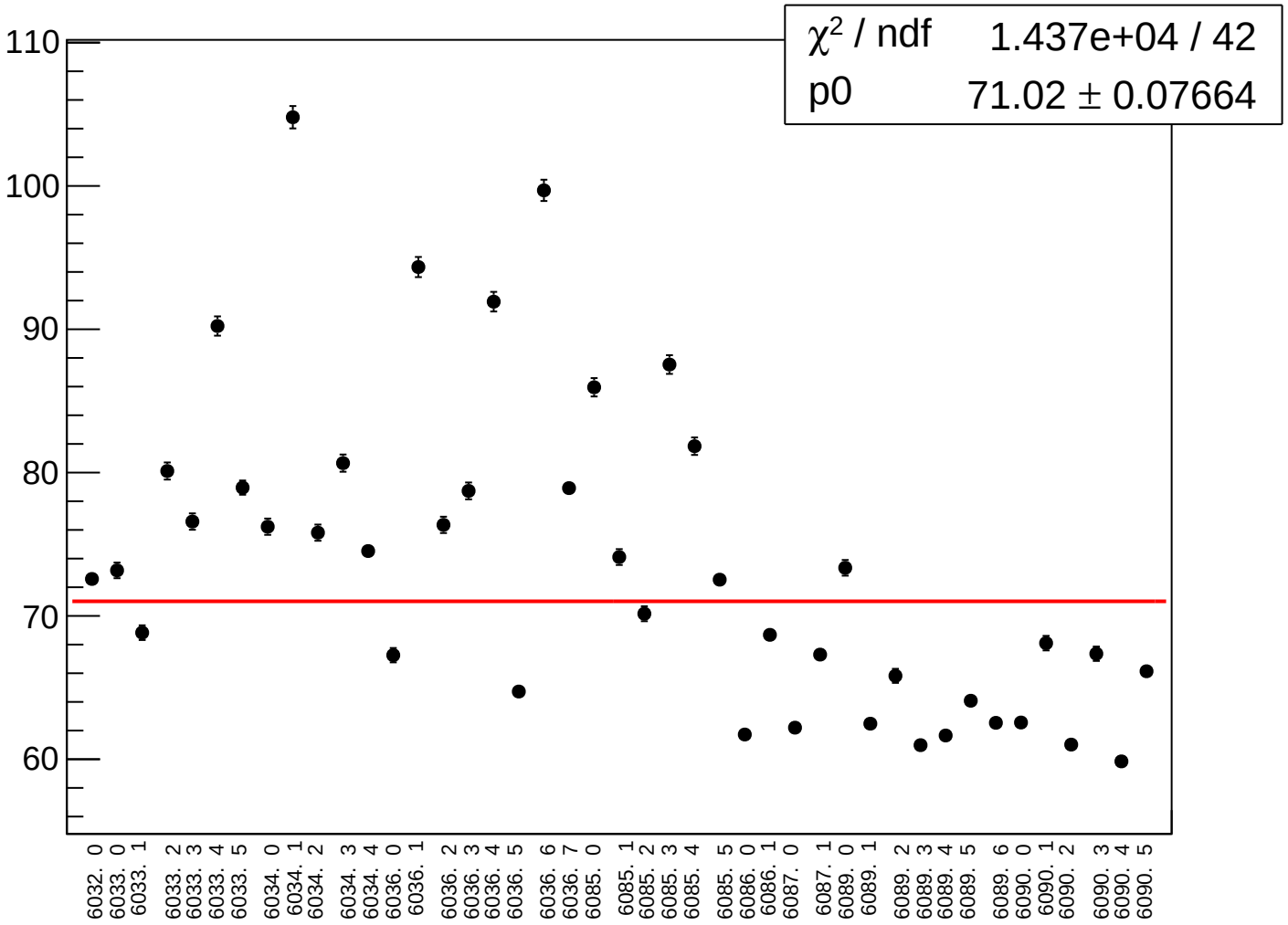

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 39.99 / 42
p0 −705.2 ± 1576
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.93
Std Dev 23.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

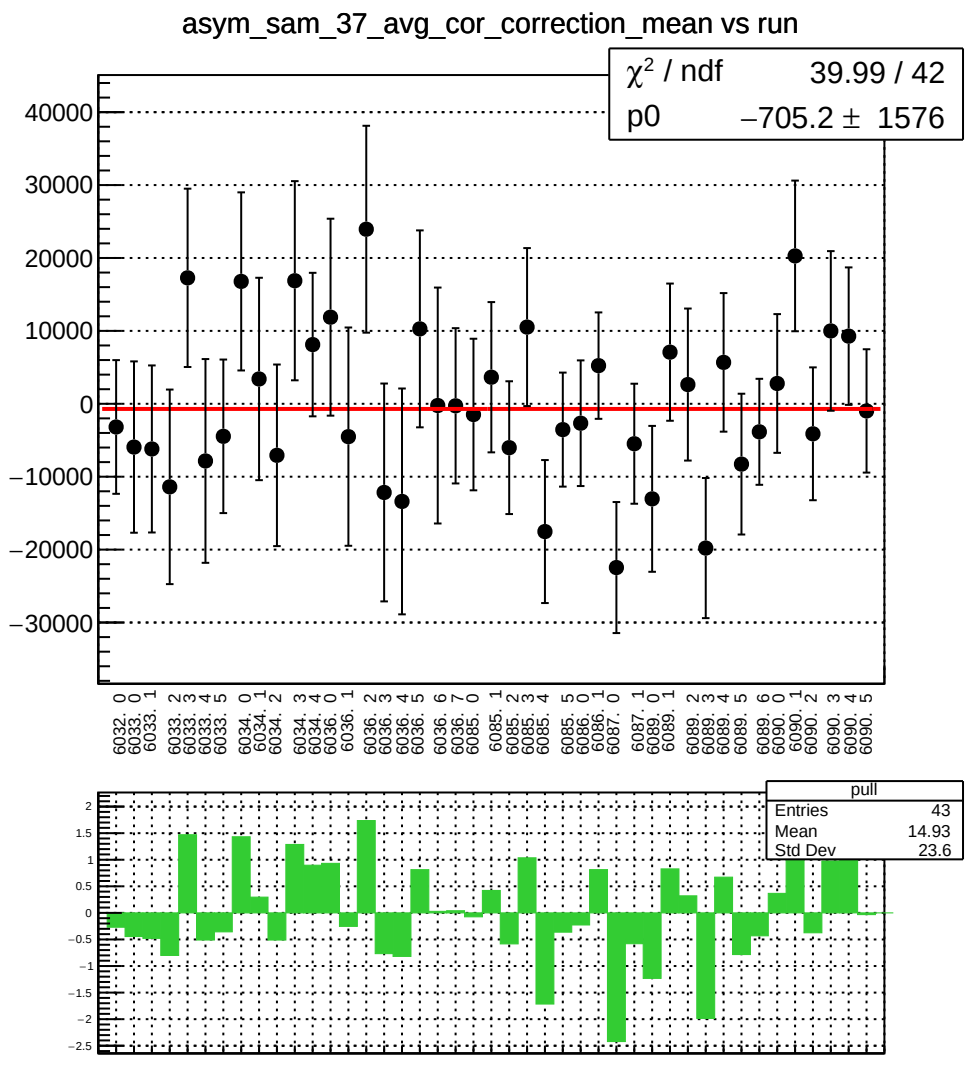

pull1D
Entries 43
Mean 0.0336
Std Dev 0.9638
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

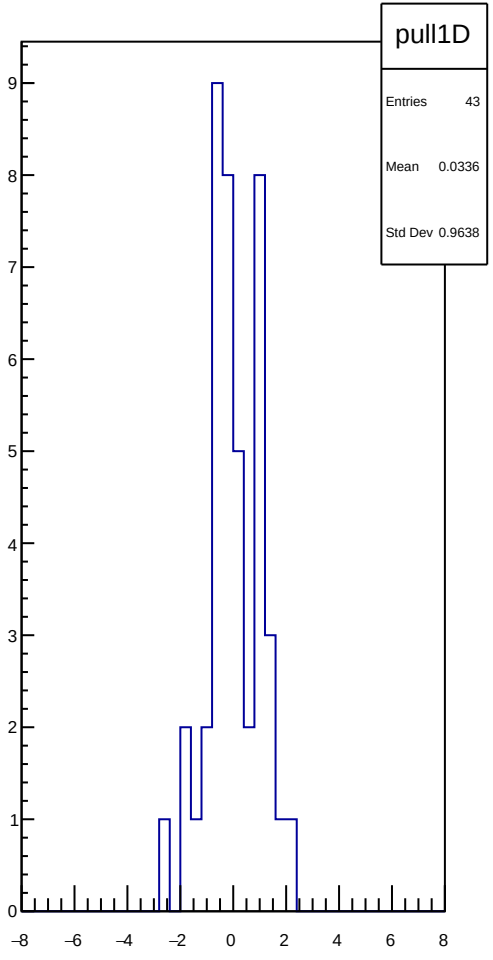

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2.465e+04 / 42
p0 1027 ± 1.115
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

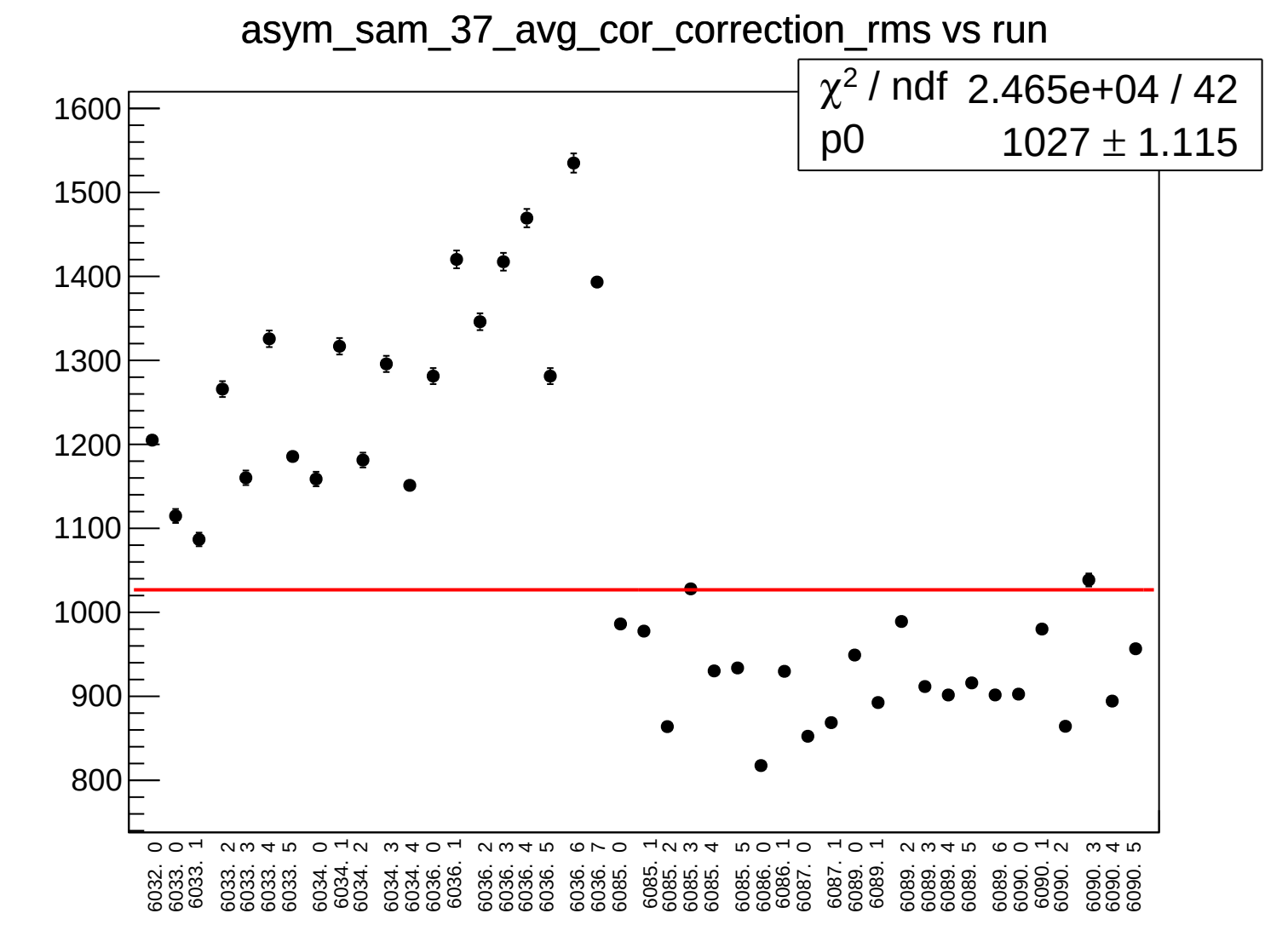

cor_asym_sam_37_avg_mean vs run
χ² / ndf 45.27 / 42
p0 127.5 ± 108.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −54.9
Std Dev 0
2
1
0
−1
−2

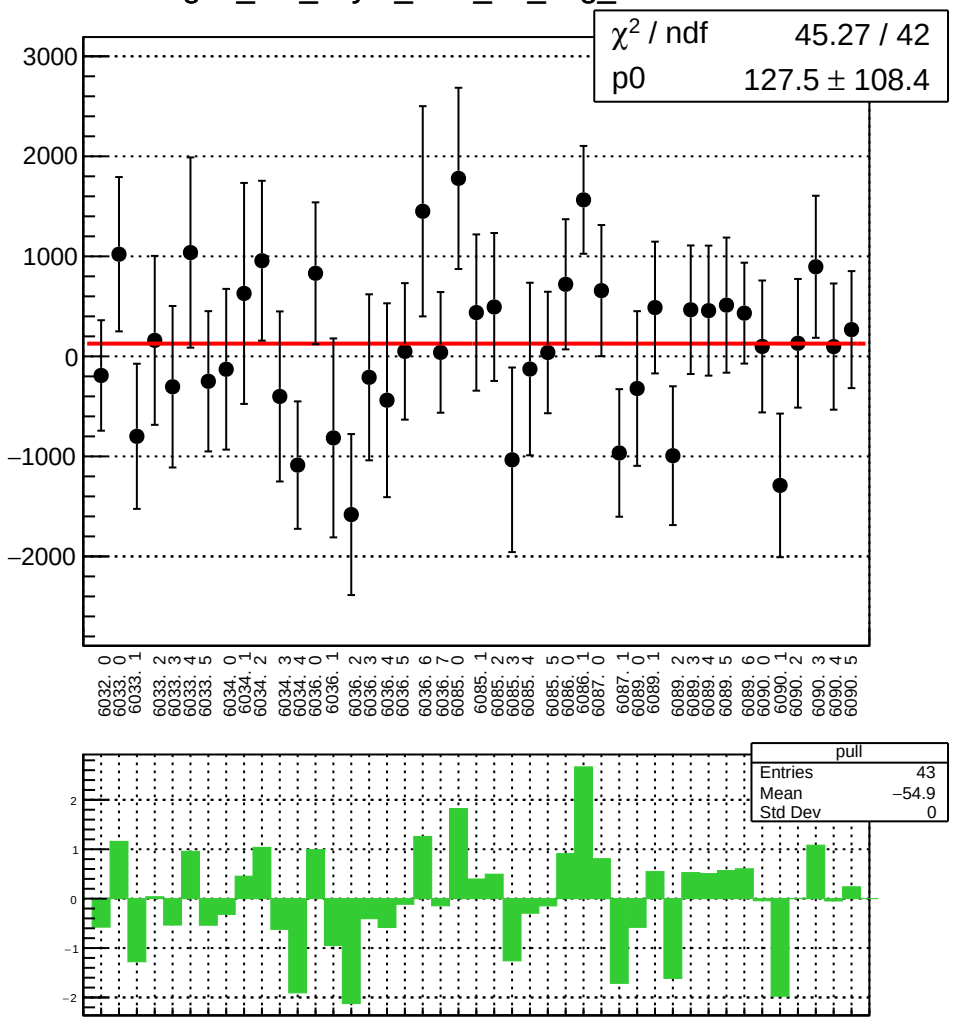

pull1D
Entries 43
Mean −0.01592
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

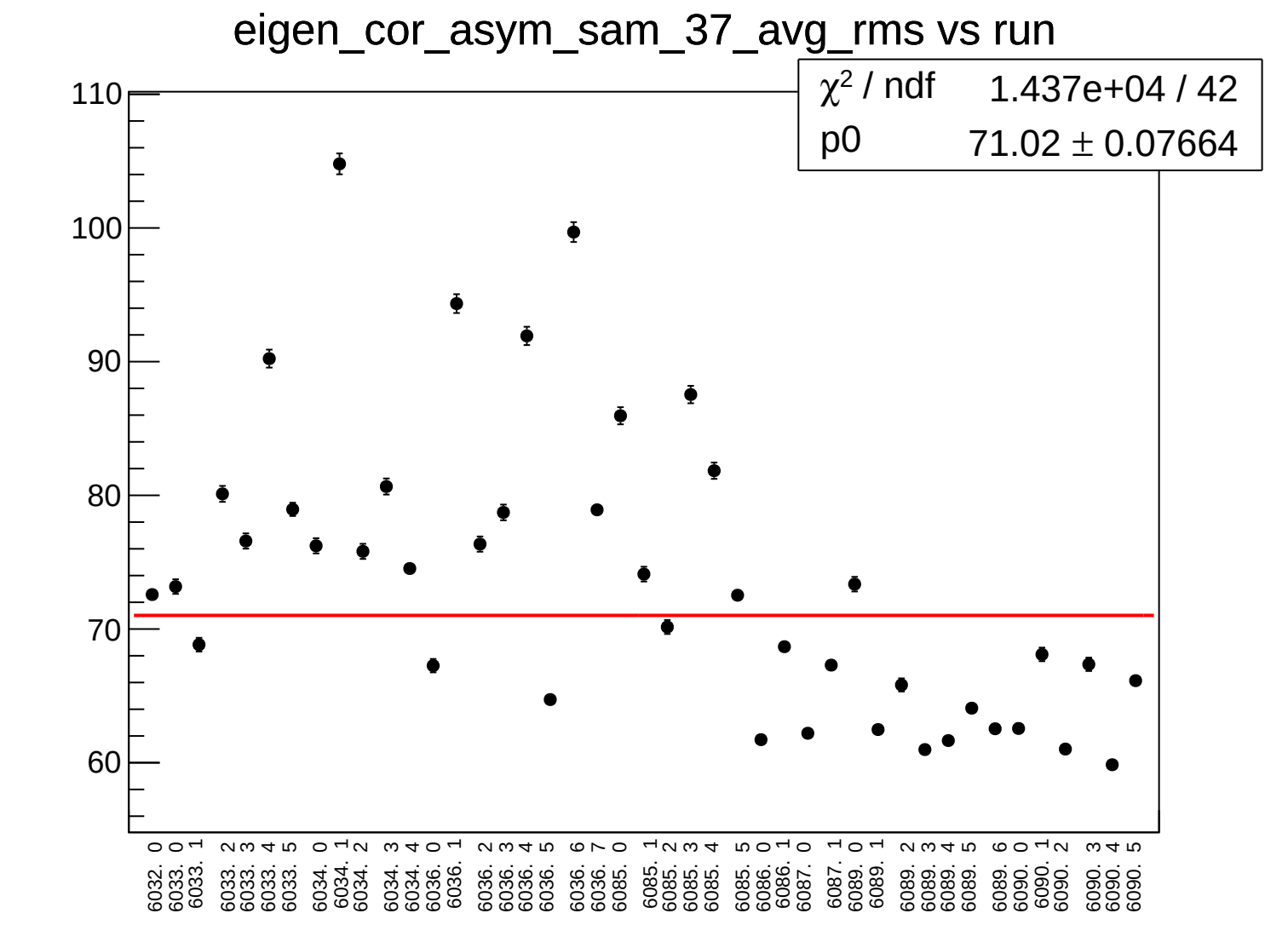

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.437e+04 / 42
p0 71.02 ± 0.07664
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

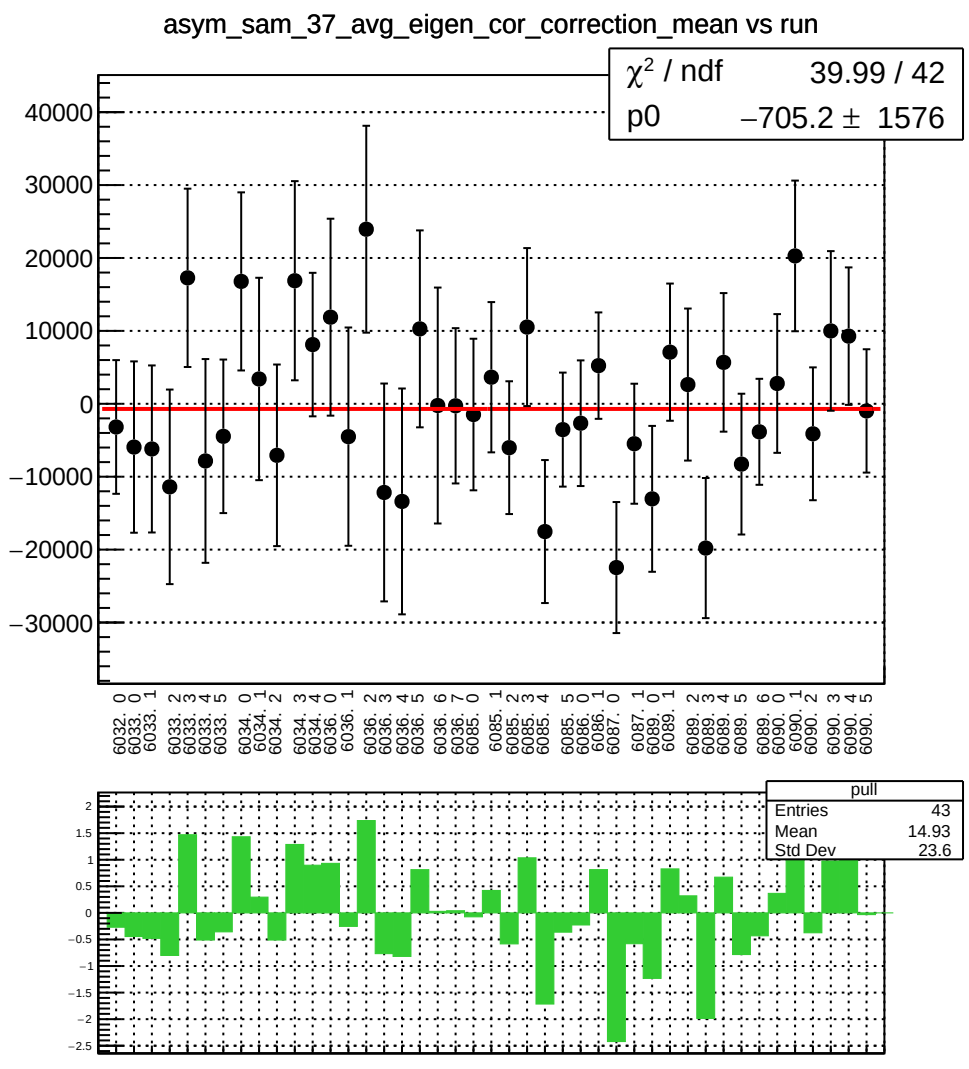

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 39.99 / 42
p0 −705.2 ± 1576
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.93
Std Dev 23.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

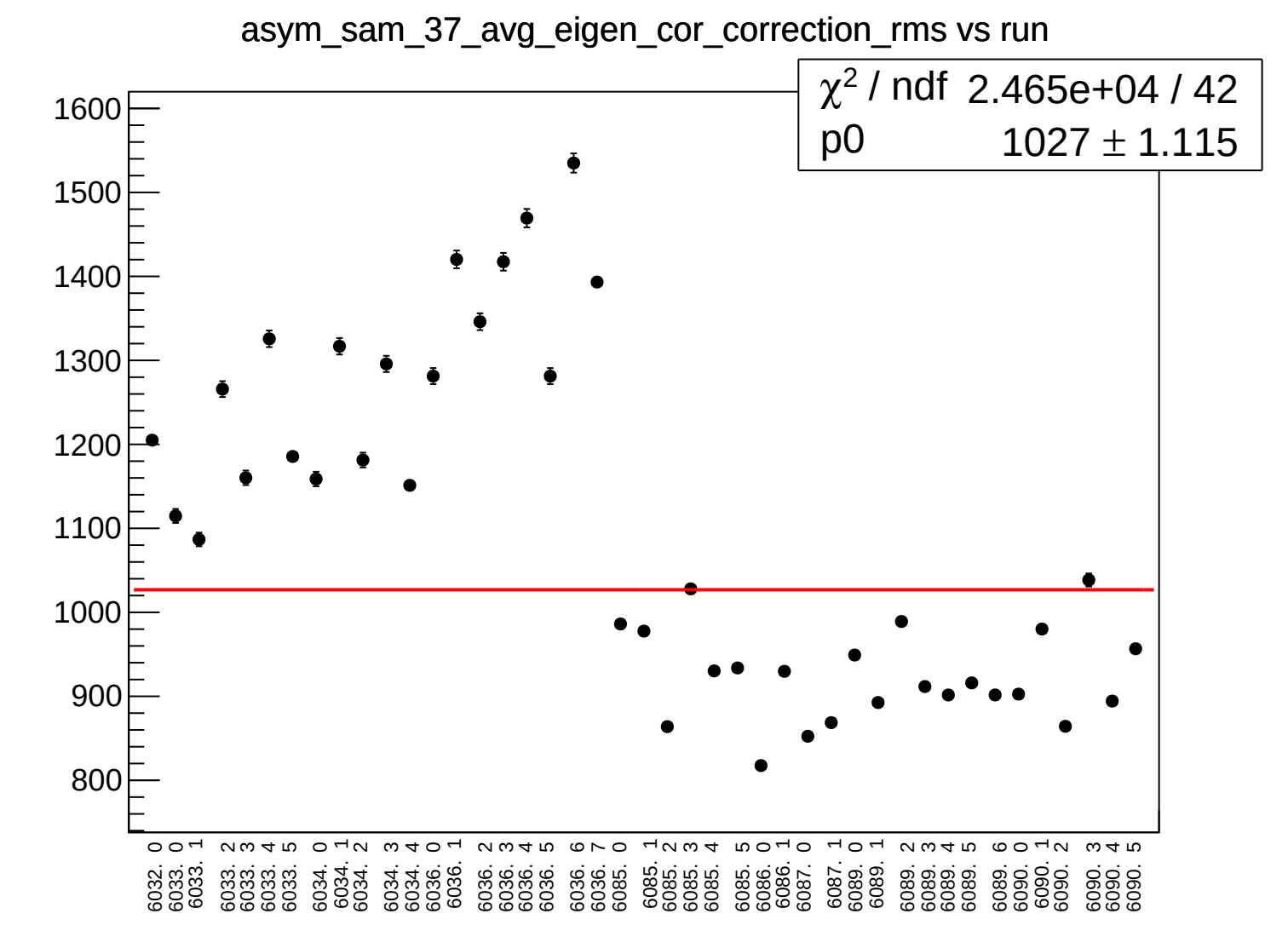

pull1D
Entries 43
Mean 0.0336
Std Dev 0.9638
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

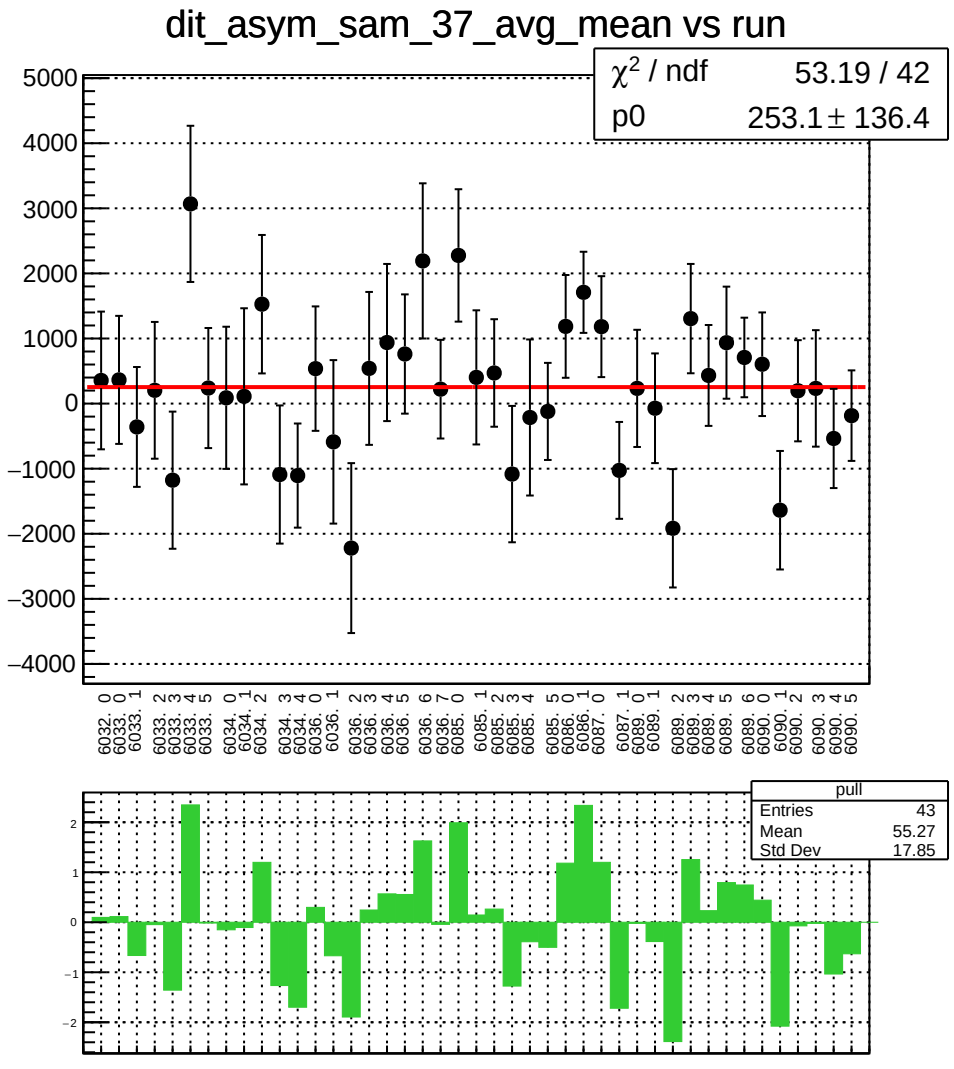

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2.465e+04 / 42
p0 1027 ± 1.115
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

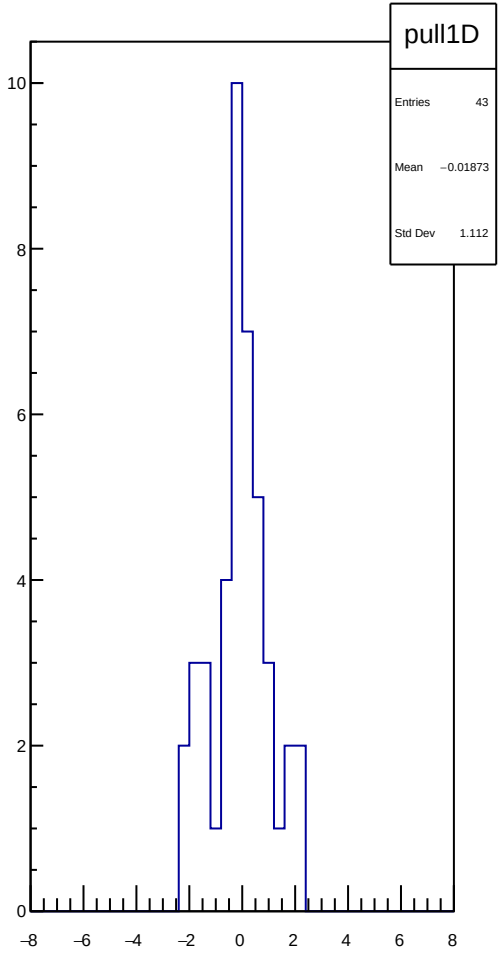

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 45.27 / 42
p0 127.5 ± 108.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −54.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01592
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

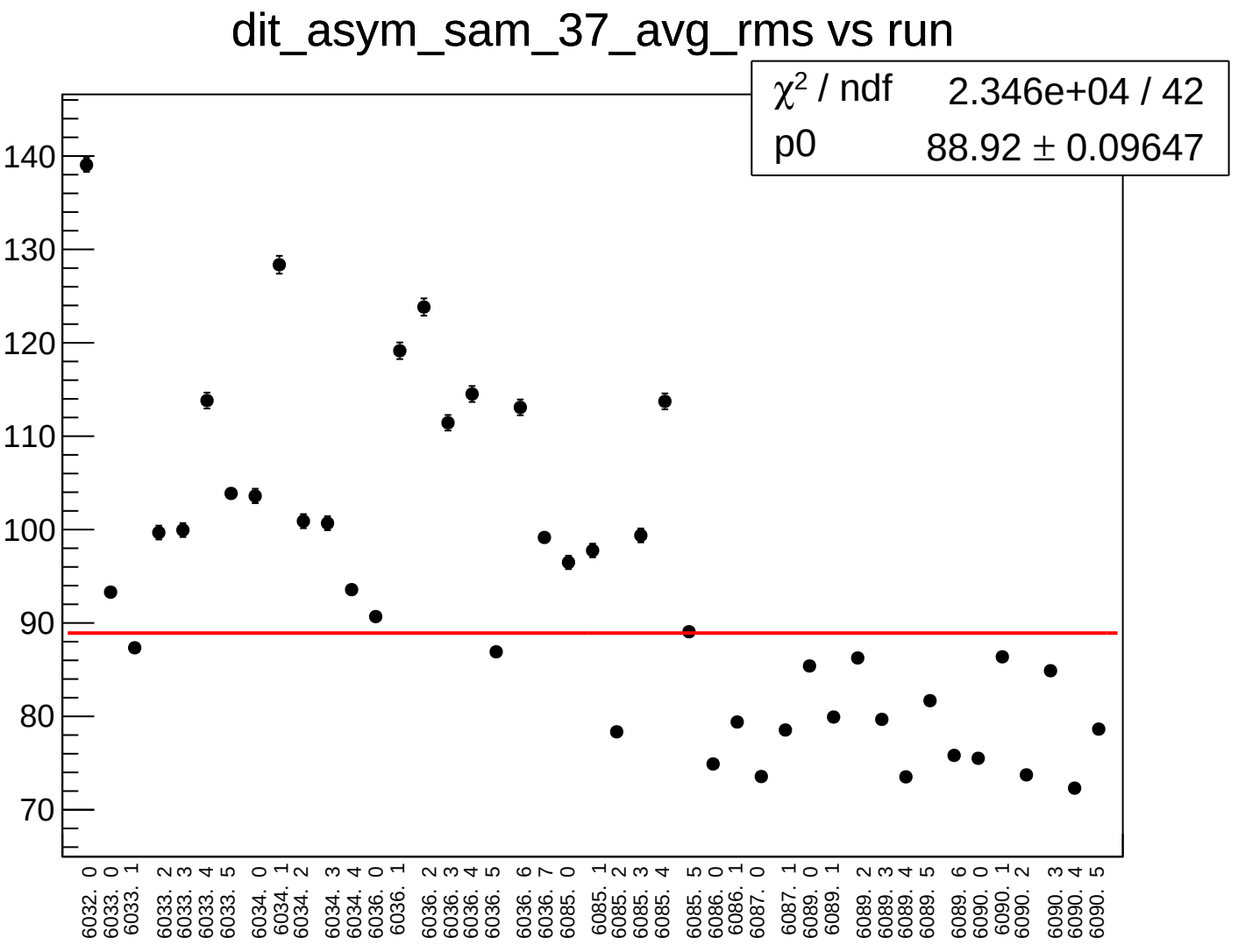

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.437e+04 / 42
p0 71.02 ± 0.07664
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

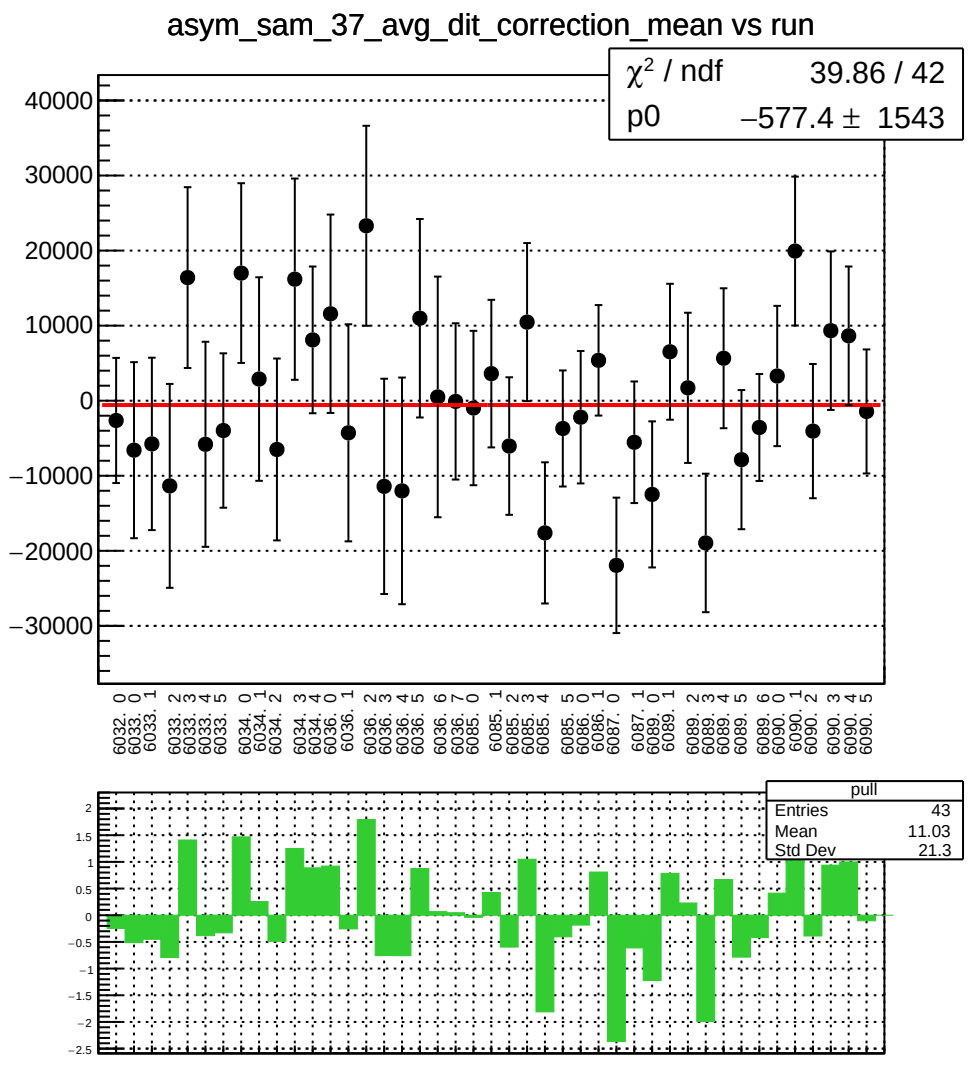

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.99 / 42
p0 −705.2 ± 1576
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.93
Std Dev 23.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.0336
Std Dev 0.9638
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

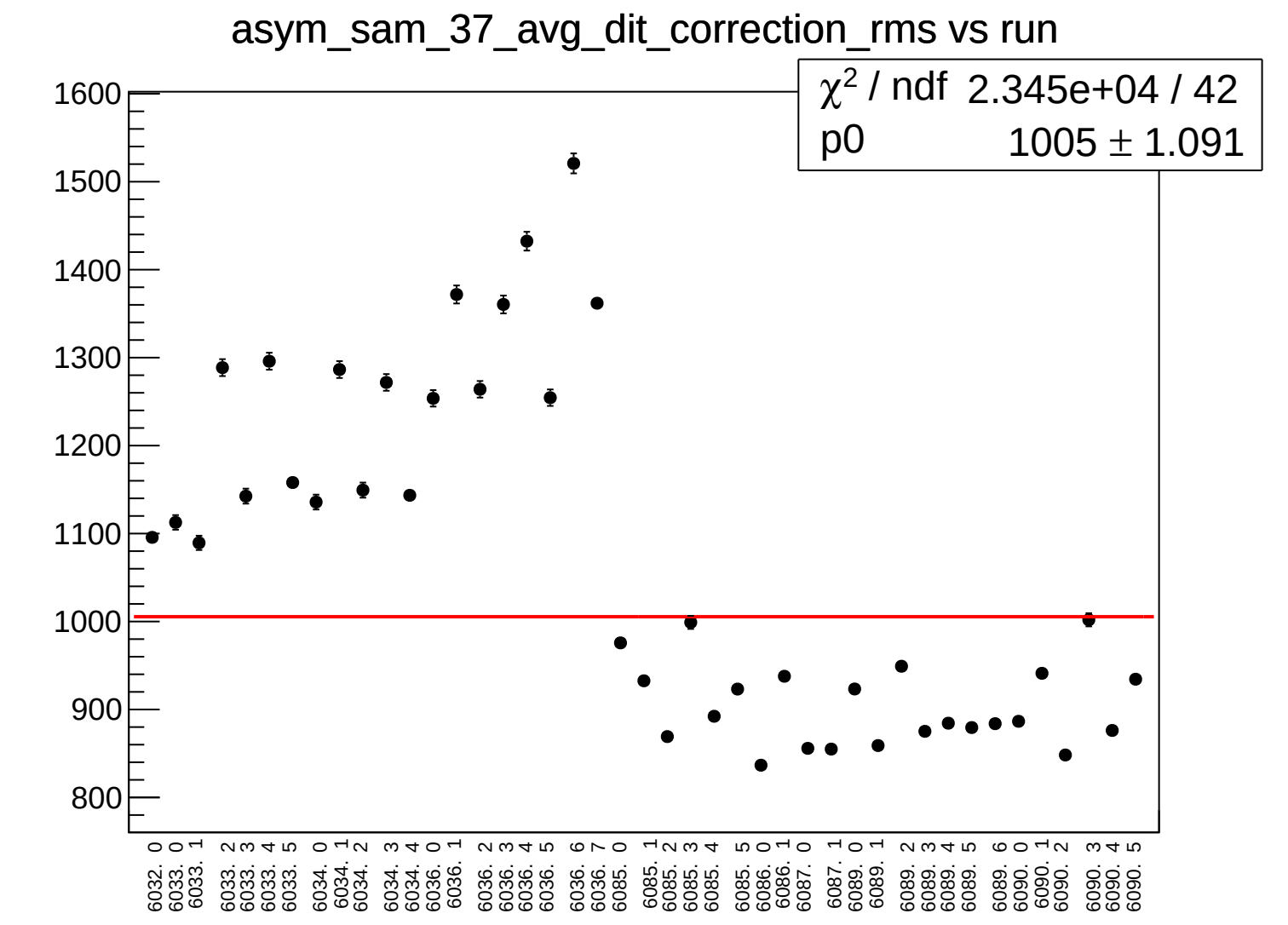

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.465e+04 / 42
p0 1027 ± 1.115
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

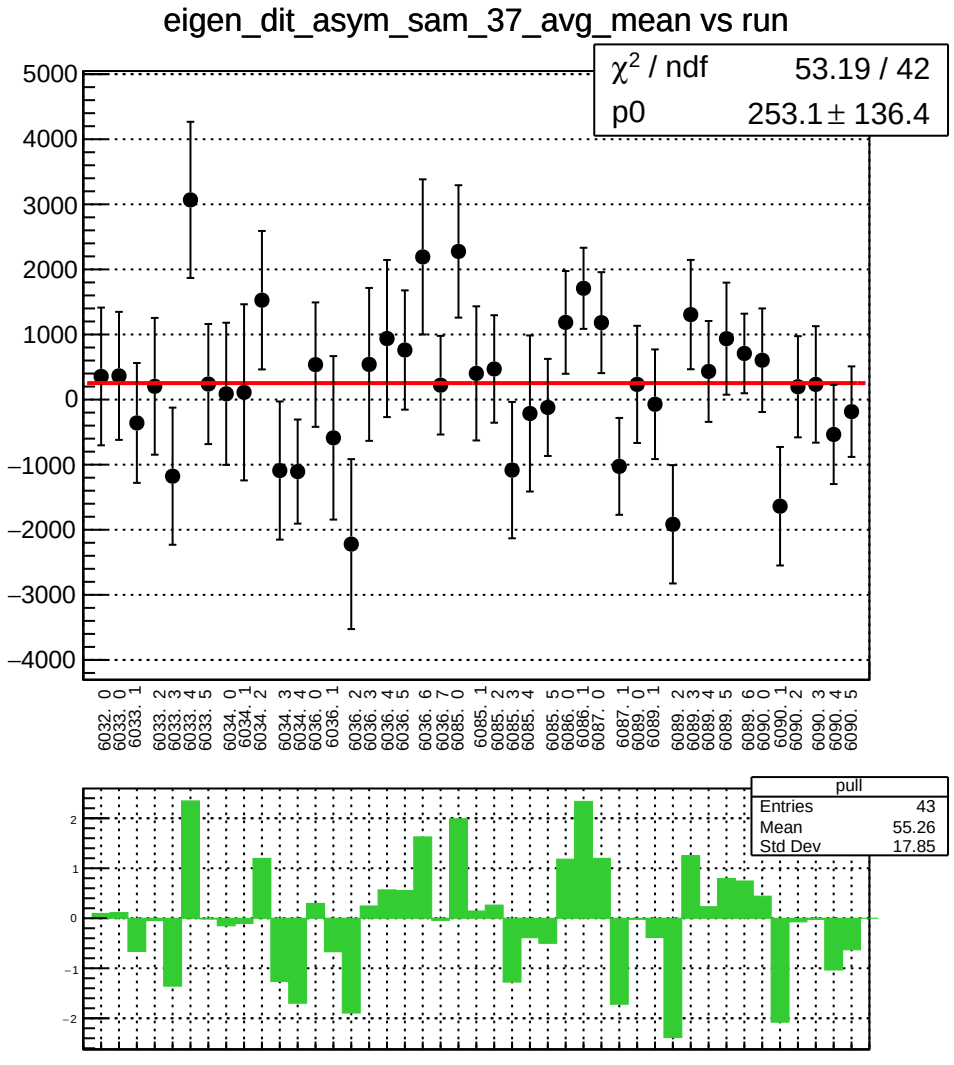

dit_asym_sam_37_avg_mean vs run
χ² / ndf 53.19 / 42
p0 253.1 ± 136.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 55.27
Std Dev 17.85
2
1
0
−1
−2

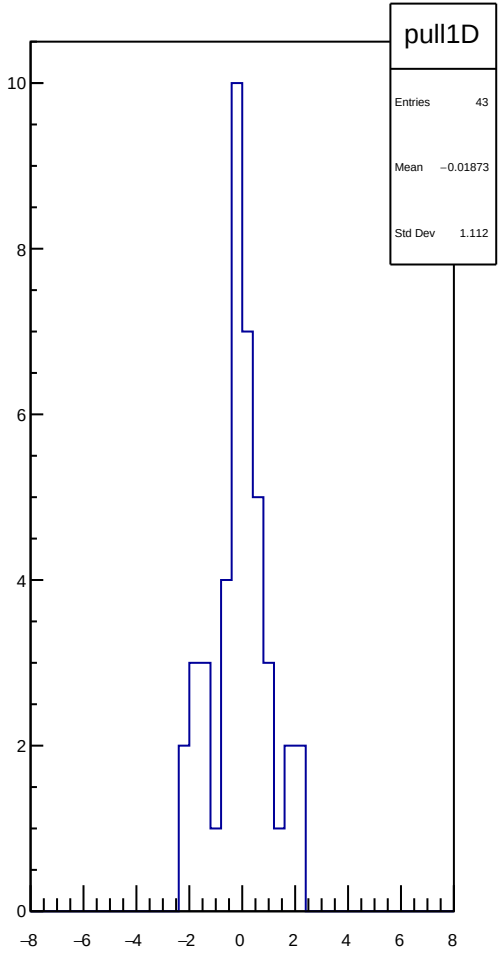

pull1D
Entries 43
Mean −0.01873
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

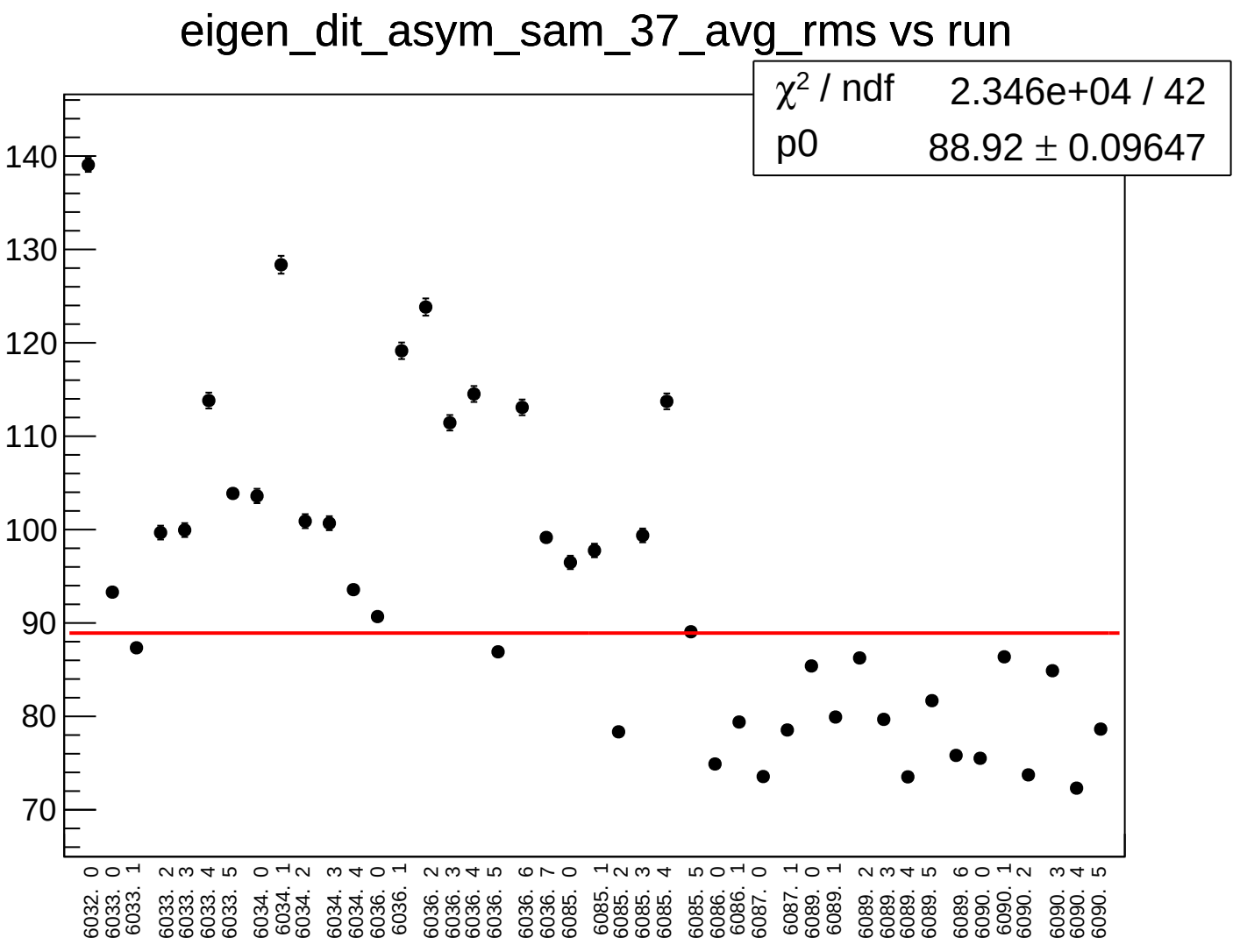

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.346e+04 / 42
p0 88.92 ± 0.09647
140
130
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

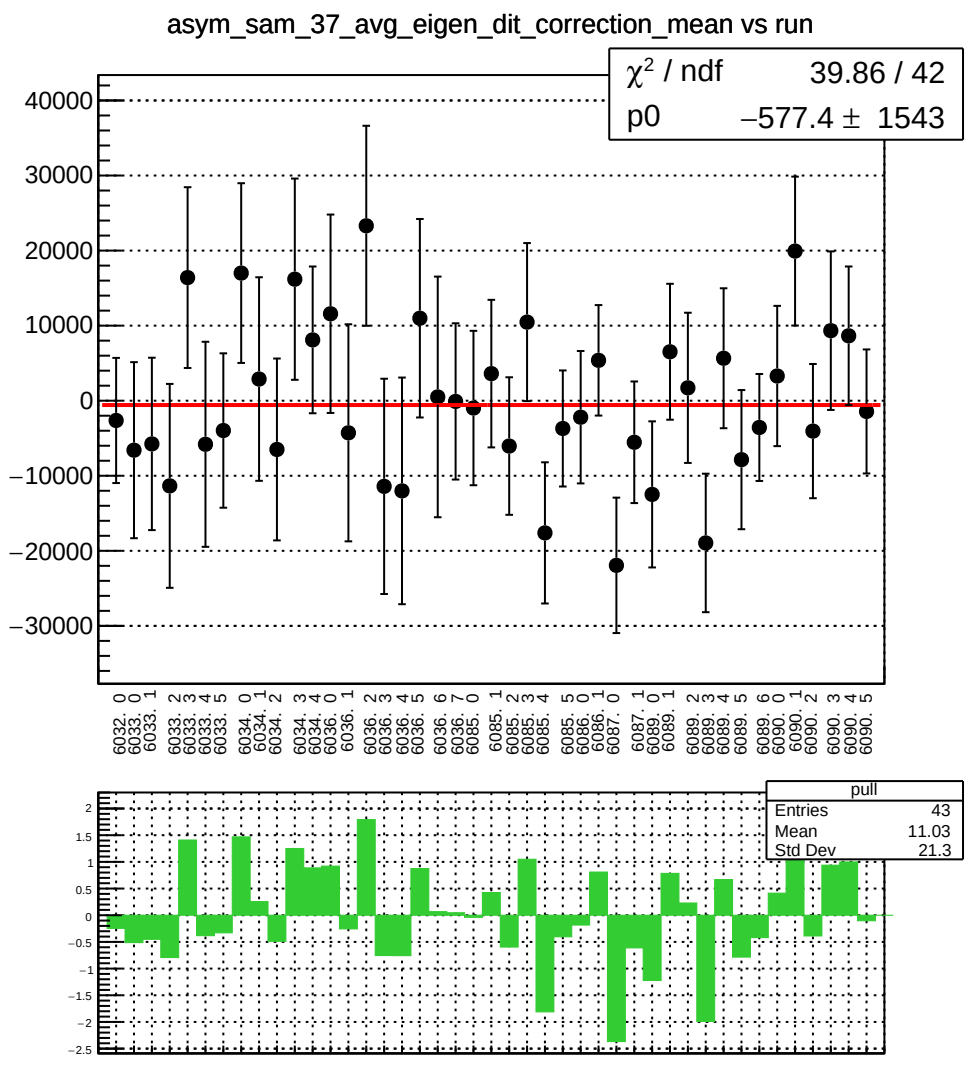

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 39.86 / 42
p0 −577.4 ± 1543
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.03
Std Dev 21.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03397
Std Dev 0.9622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

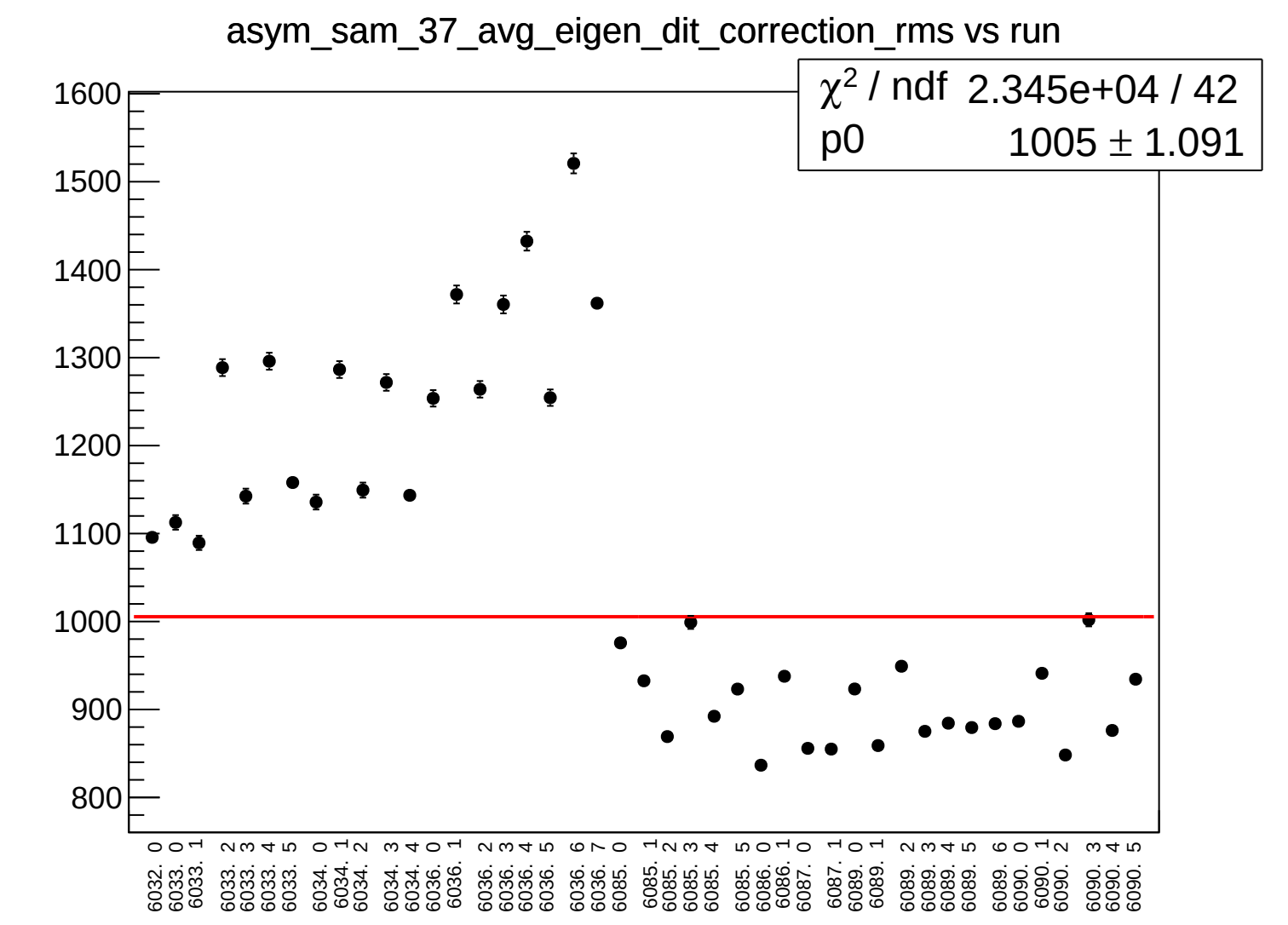

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2.345e+04 / 42
p0 1005 ± 1.091
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

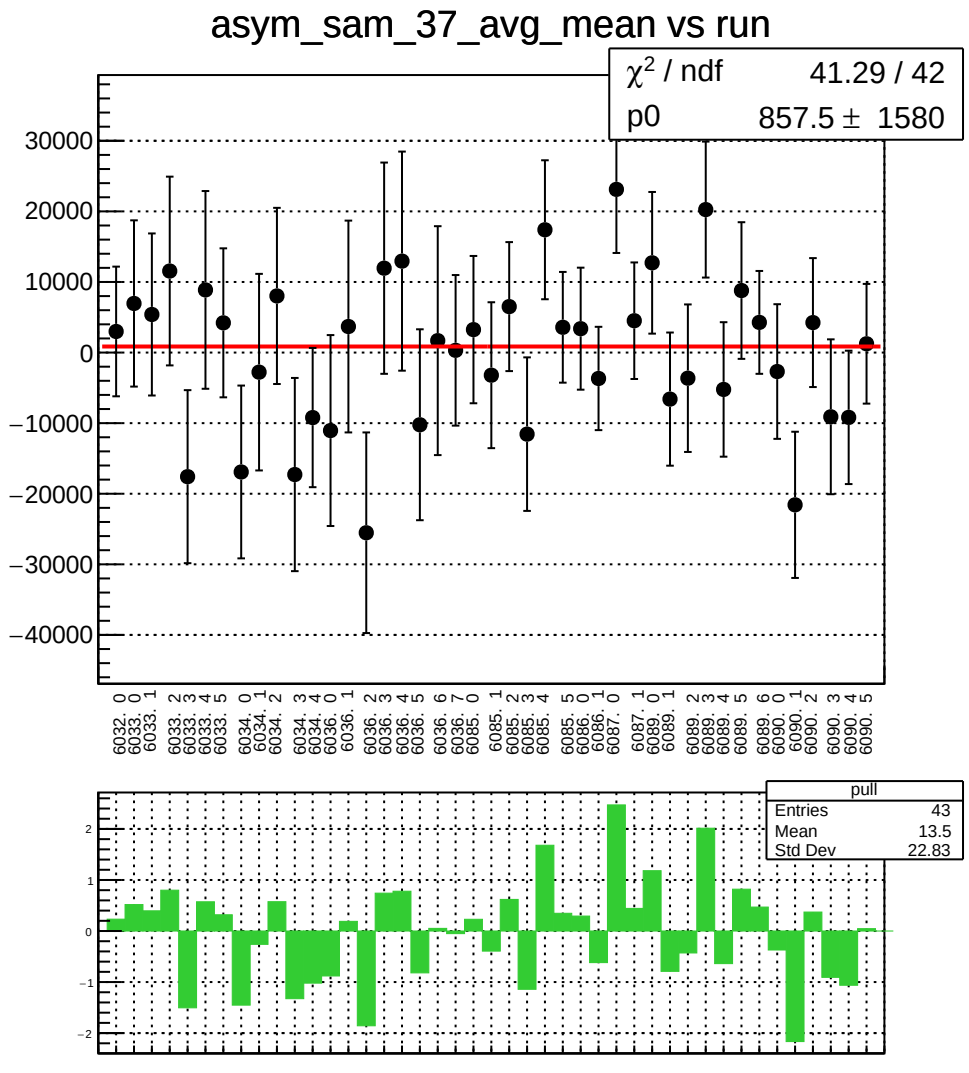

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 53.19 / 42
p0 253.1 ± 136.4
pull
Entries 43
Mean 55.26
Std Dev 17.85

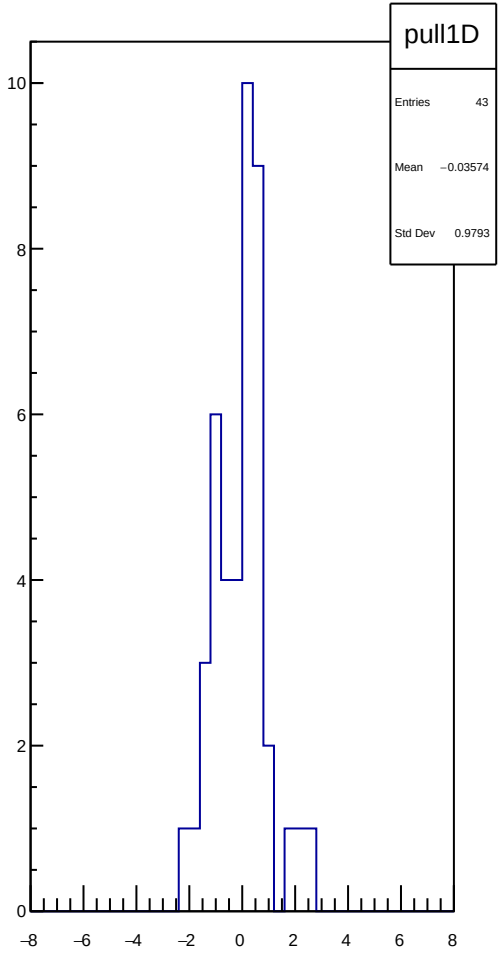

pull1D
Entries 43
Mean −0.01873
Std Dev 1.112

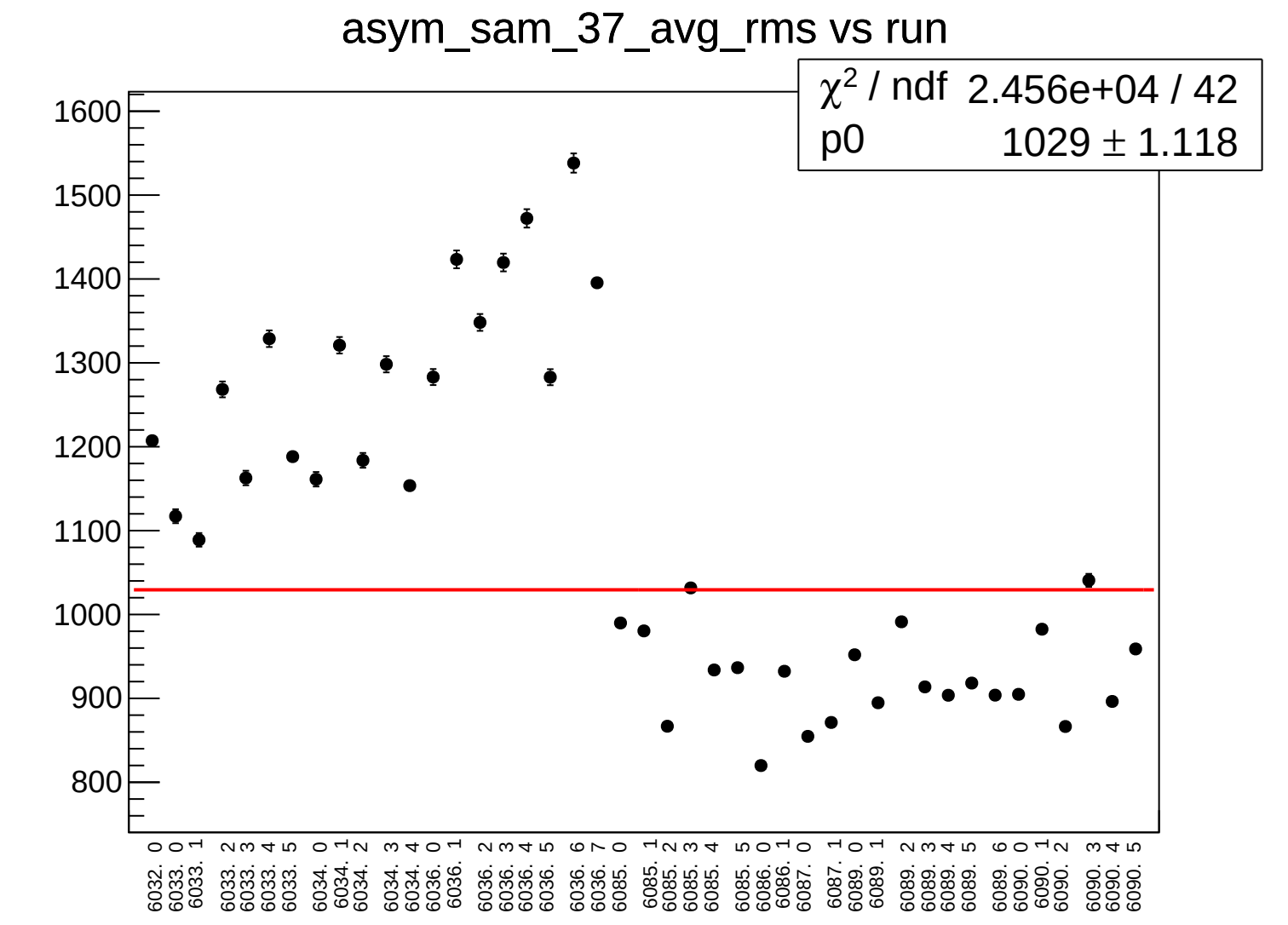

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.346e+04 / 42
p0 88.92 ± 0.09647
140
130
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

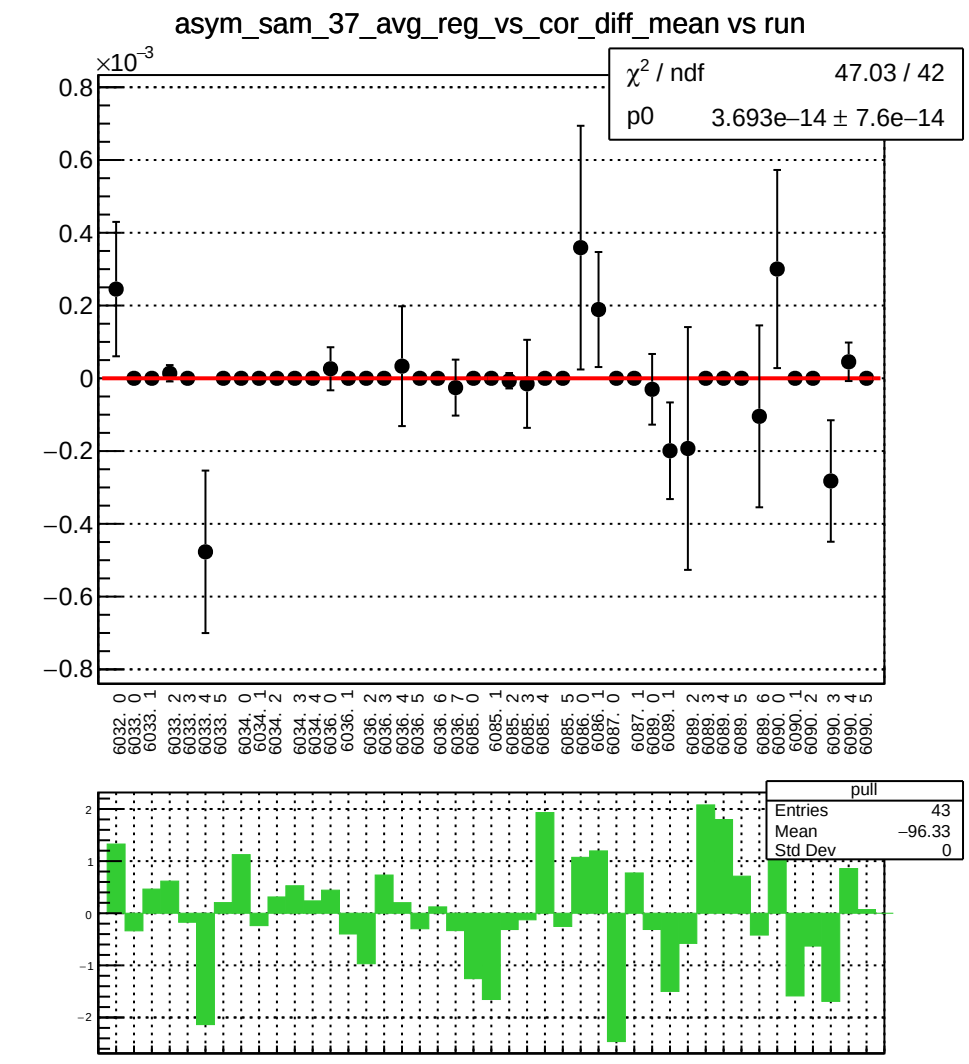

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.86 / 42
p0 −577.4 ± 1543
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.03
Std Dev 21.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03397
Std Dev 0.9622
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

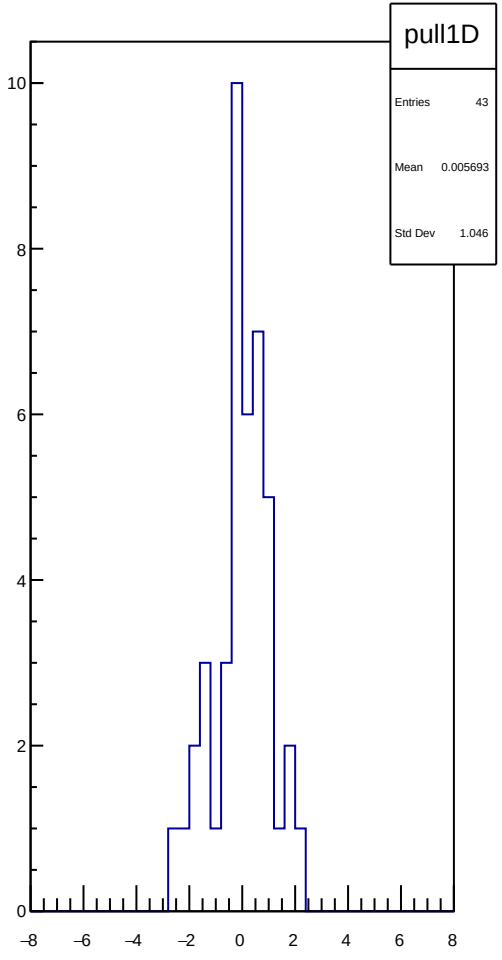

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.345e+04 / 42
p0 1005 ± 1.091
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

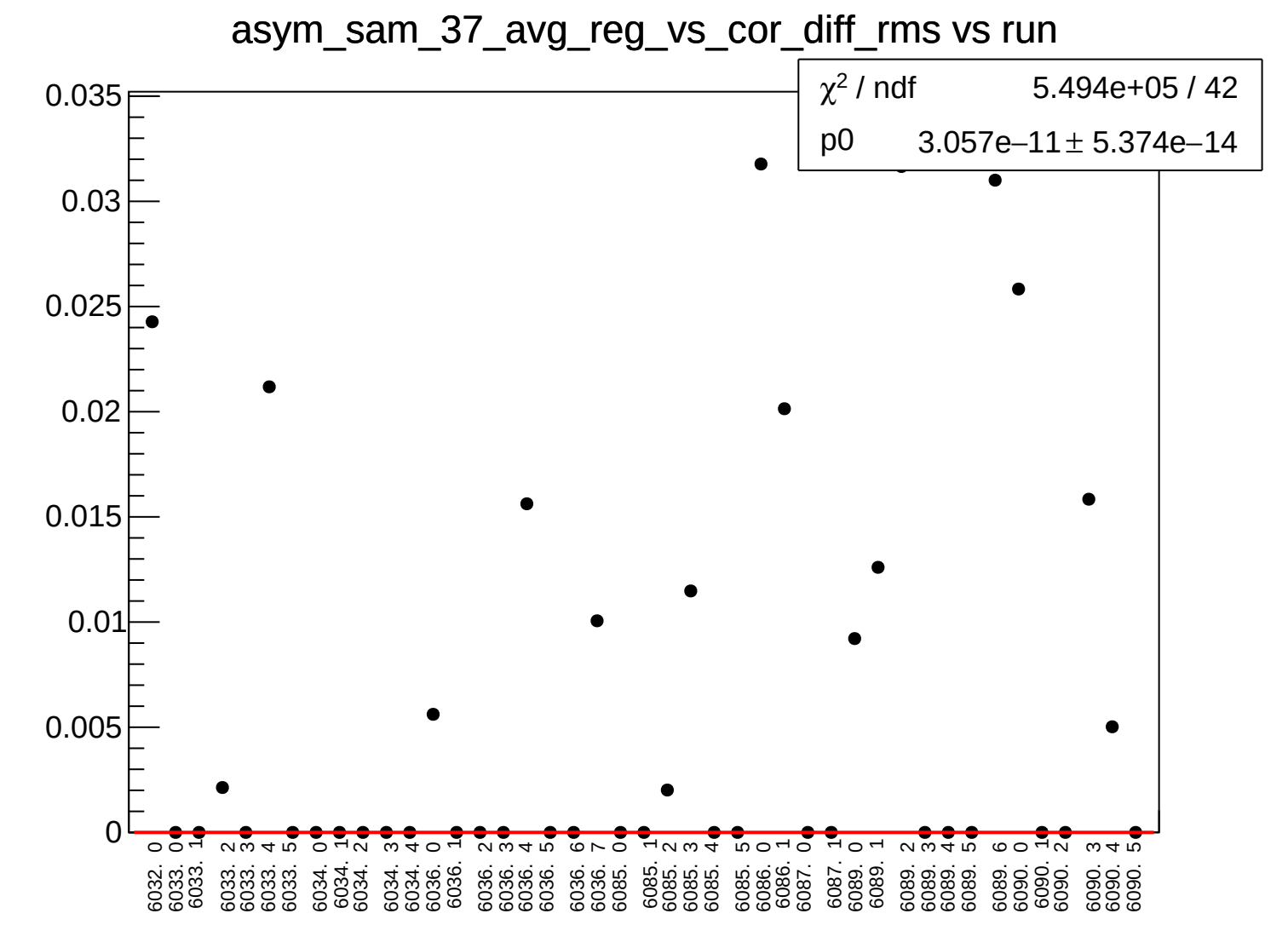

asym_sam_37_avg_mean vs run
χ² / ndf 41.29 / 42
p0 857.5 ± 1580
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.5
Std Dev 22.83
2
1
0
−1
−2

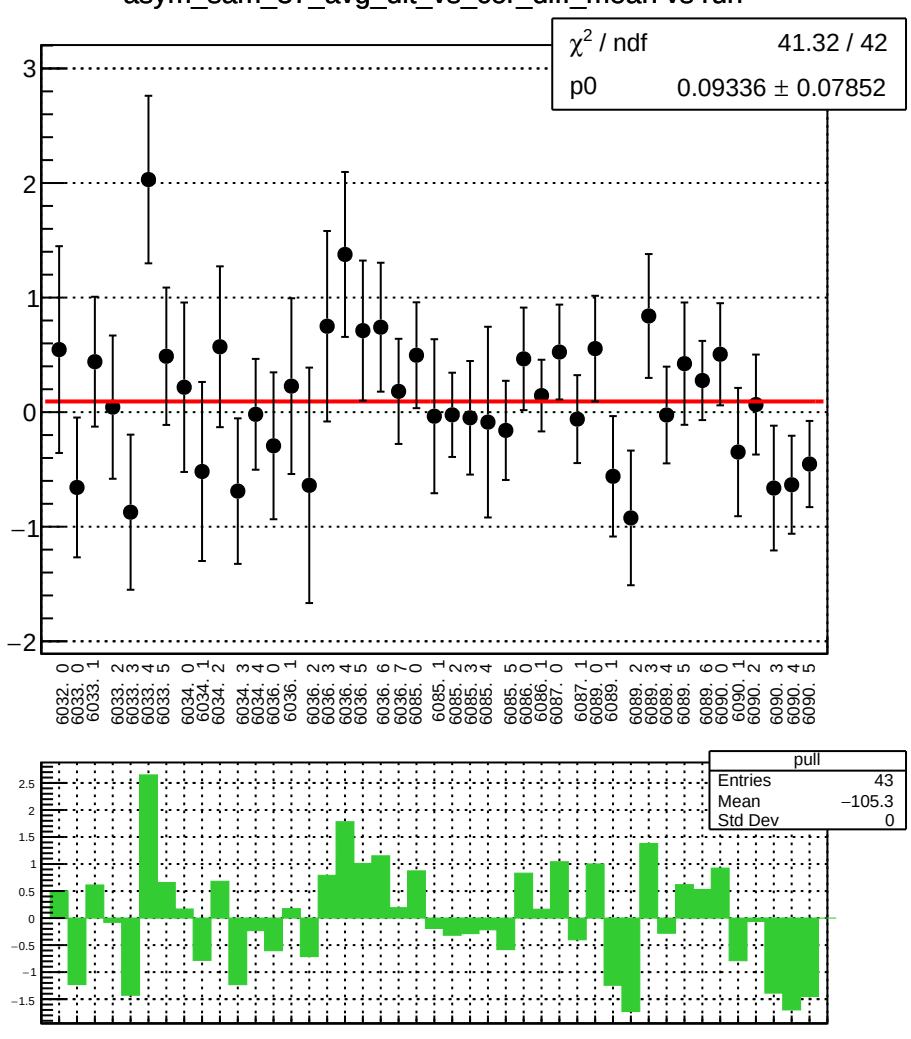

pull1D
Entries 43
Mean −0.03574
Std Dev 0.9793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

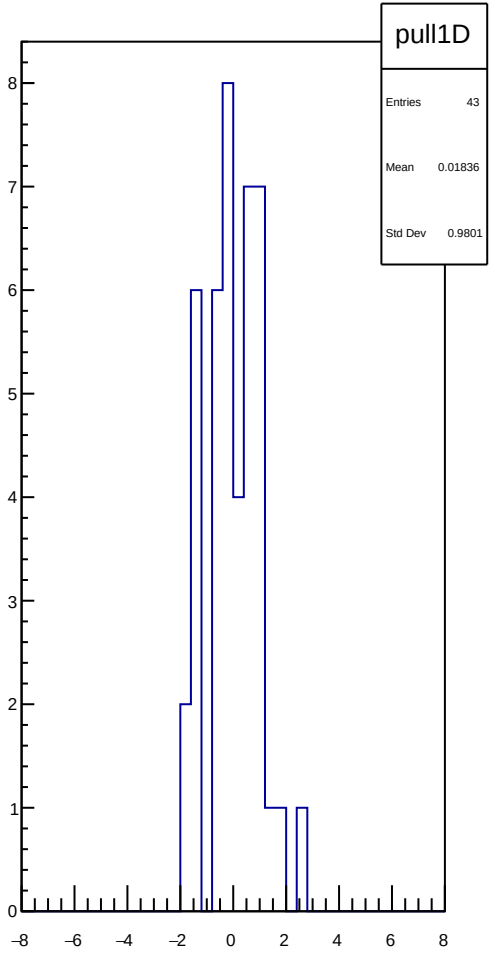

asym_sam_37_avg_rms vs run
χ² / ndf 2.456e+04 / 42
p0 1029 ± 1.118
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

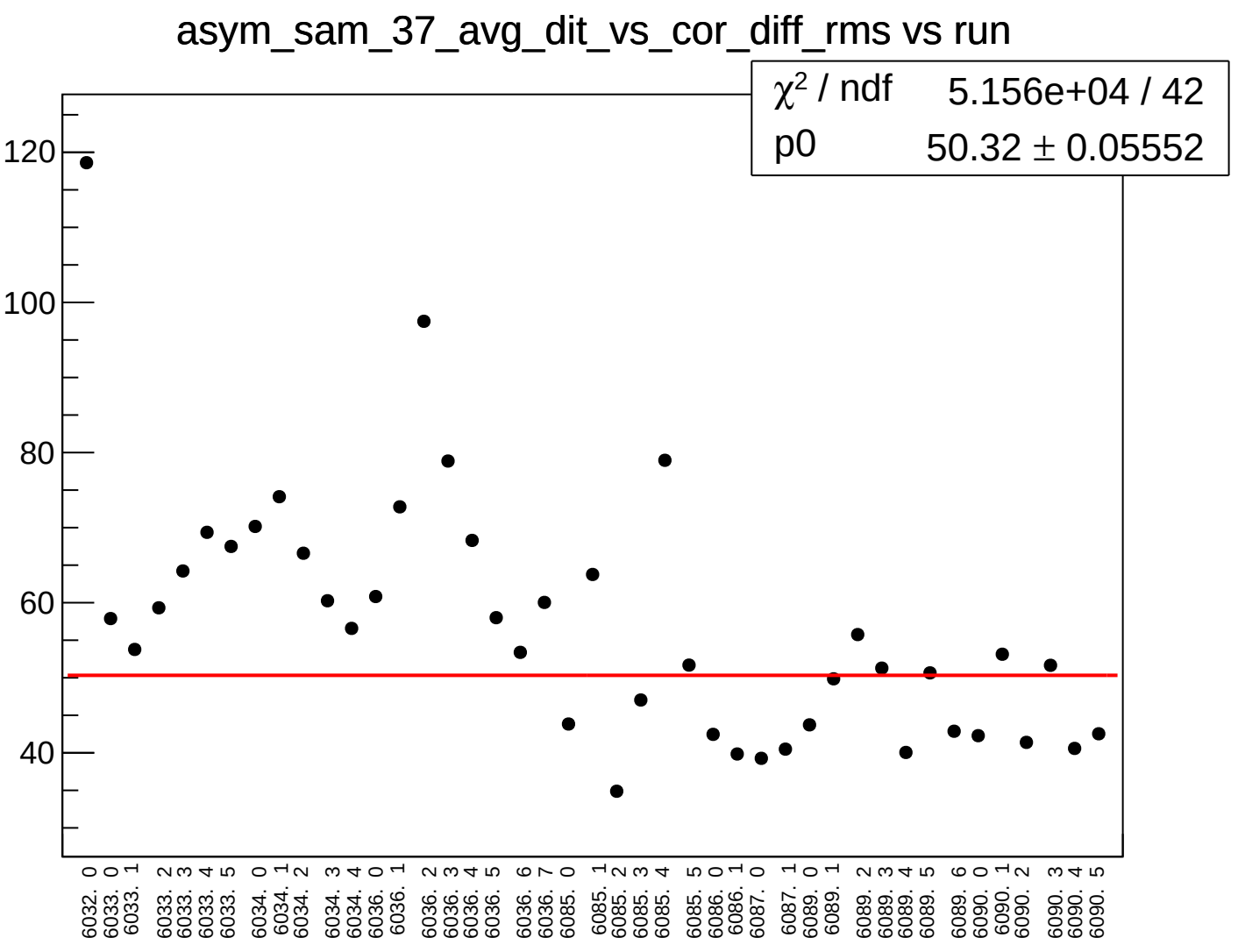

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 47.03 / 42
p0 3.693e−14 ± 7.6e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −96.33
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.005693
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

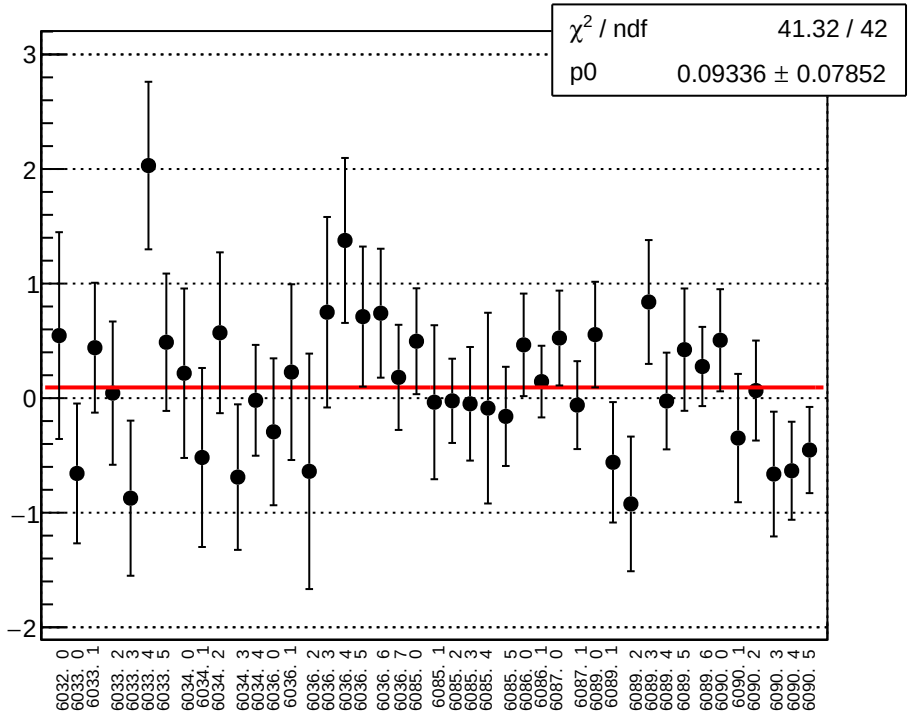

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.494e+05 / 42
p0 3.057e−11 ± 5.374e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

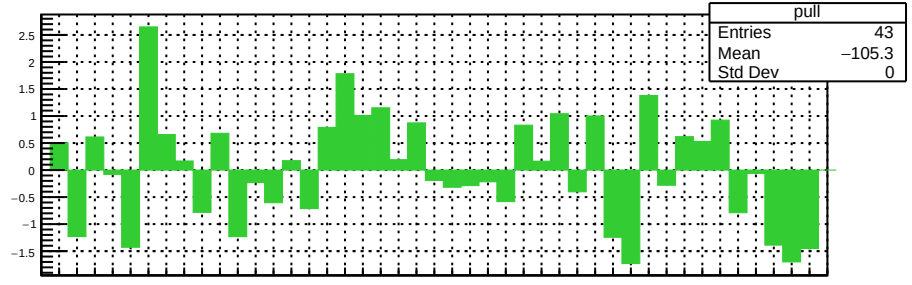

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.32 / 42
p0 0.09336 ± 0.07852
pull
Entries 43
Mean −105.3
Std Dev 0

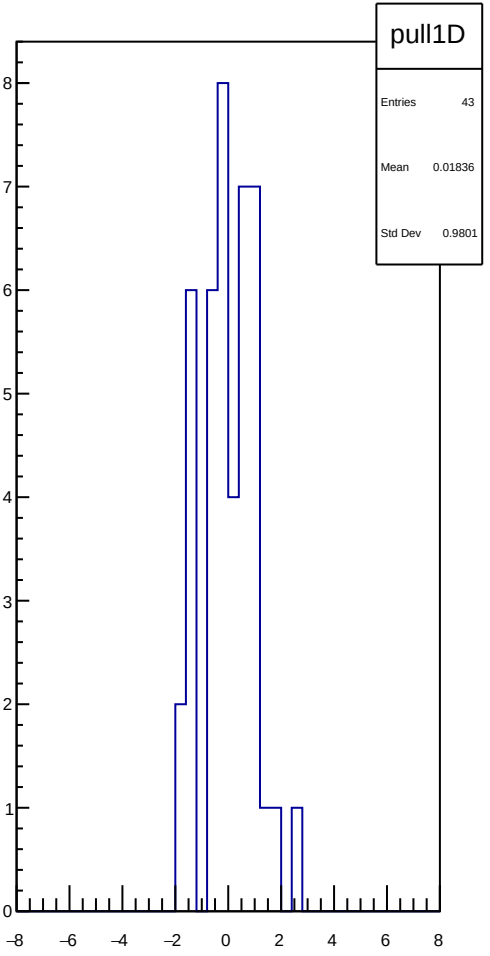

pull1D
Entries 43
Mean 0.01836
Std Dev 0.9801

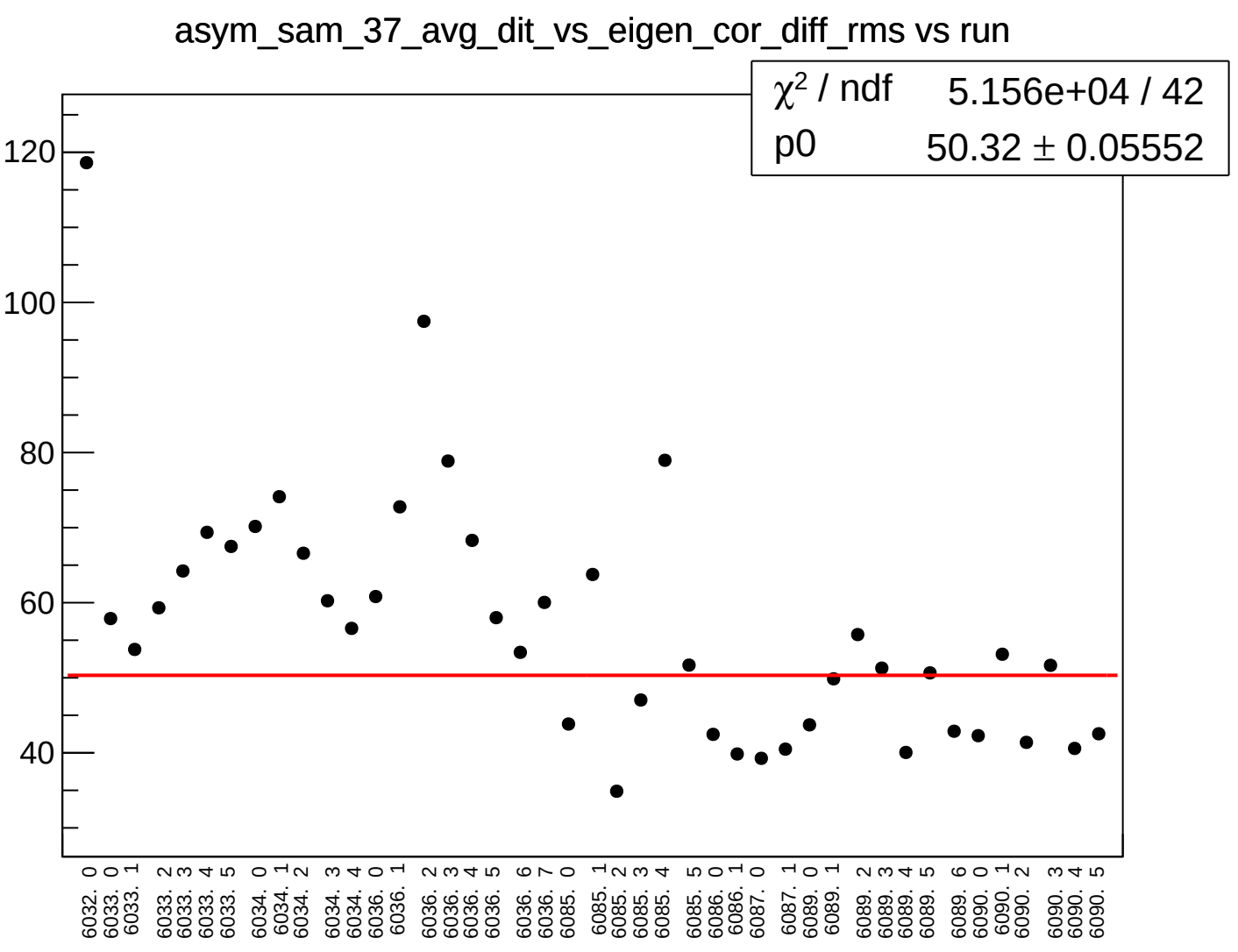

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.156e+04 / 42
p0 50.32 ± 0.05552
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

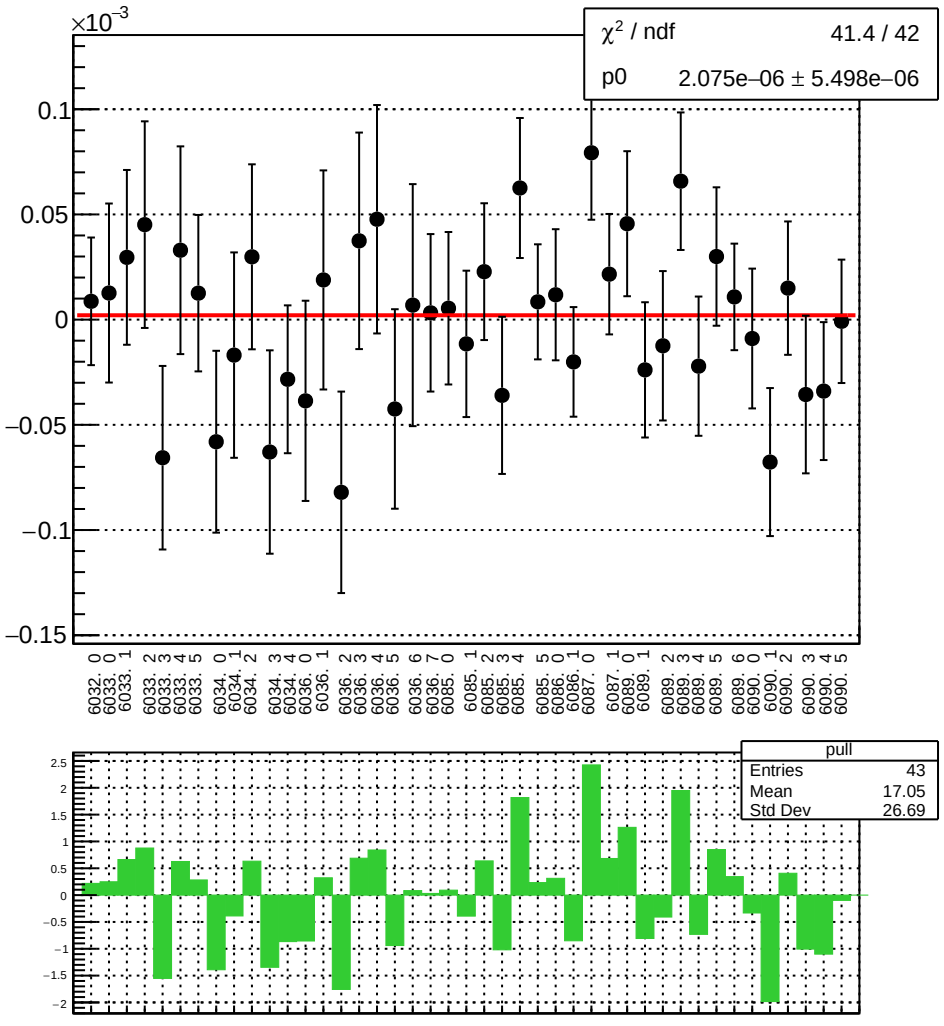
asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run

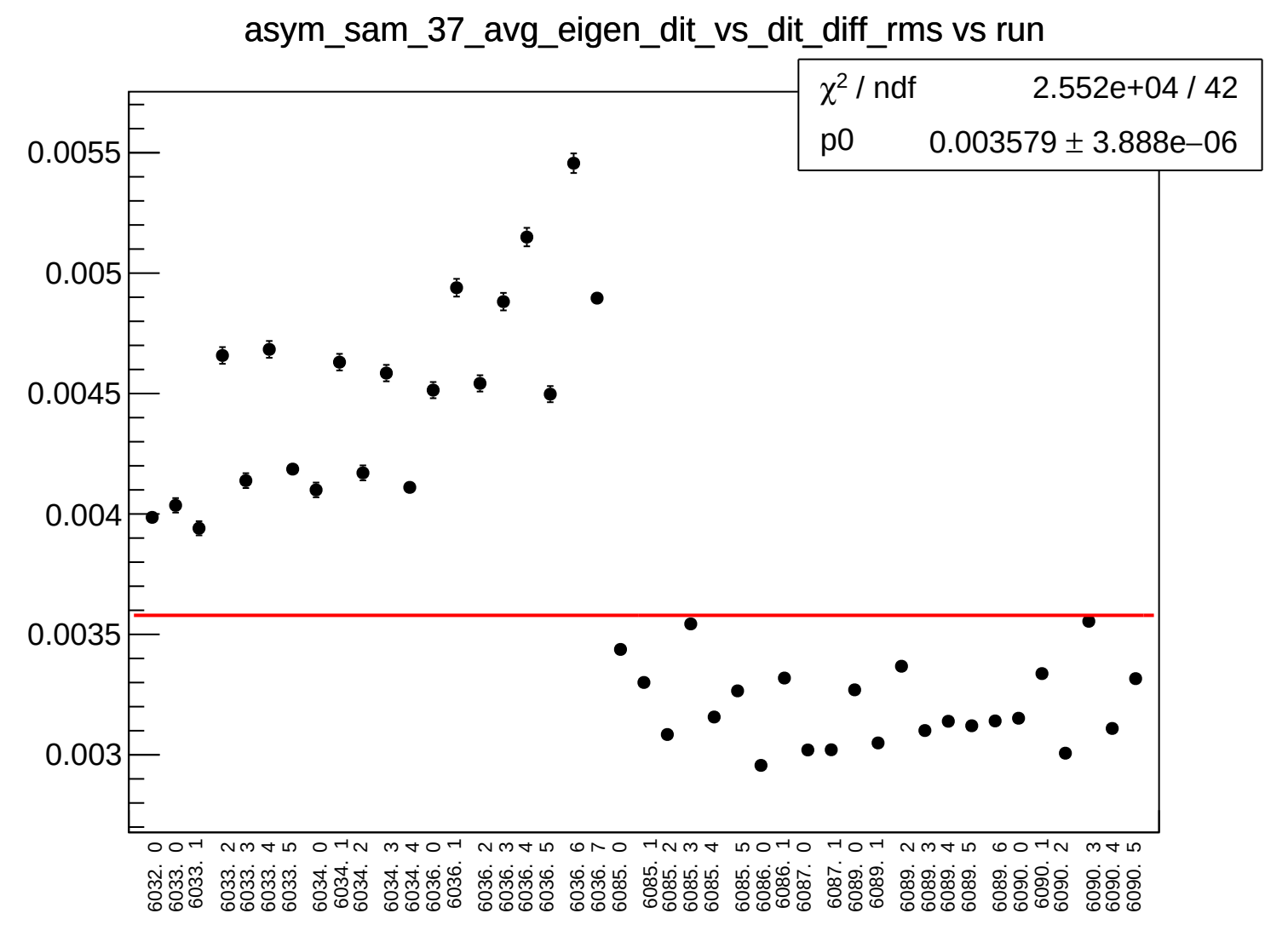


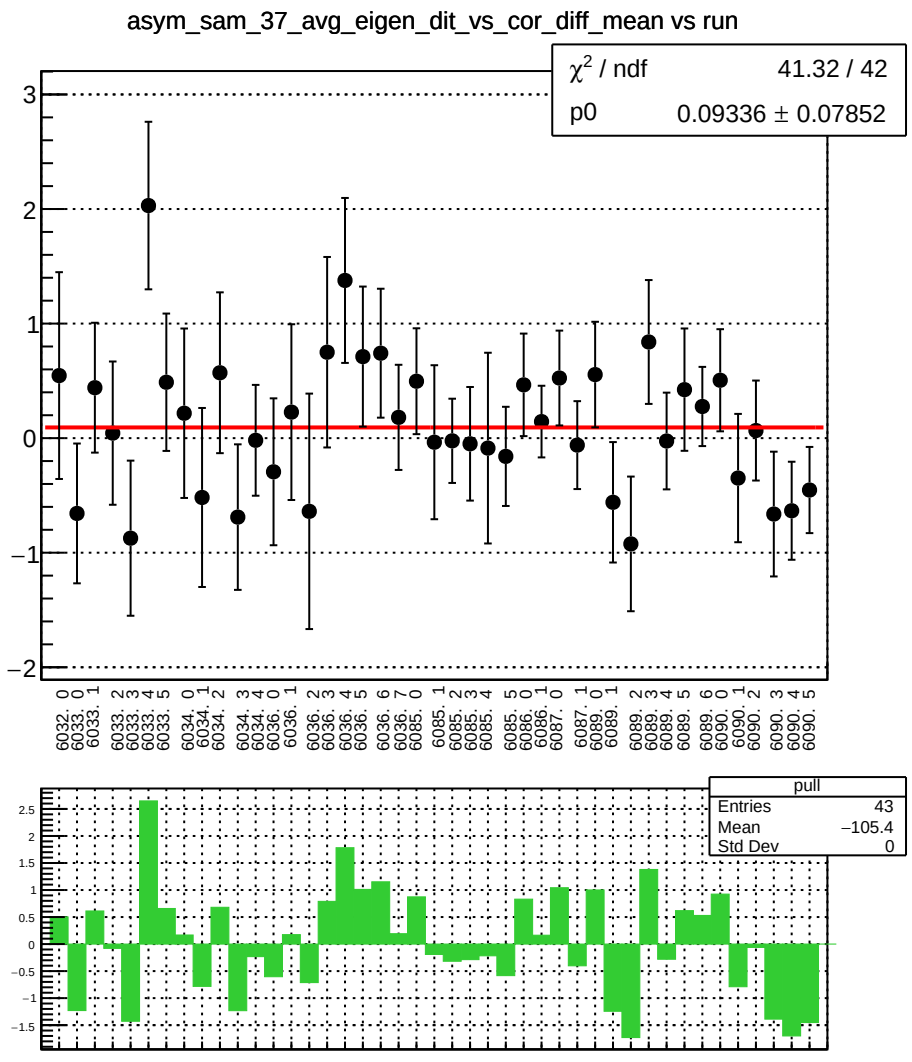


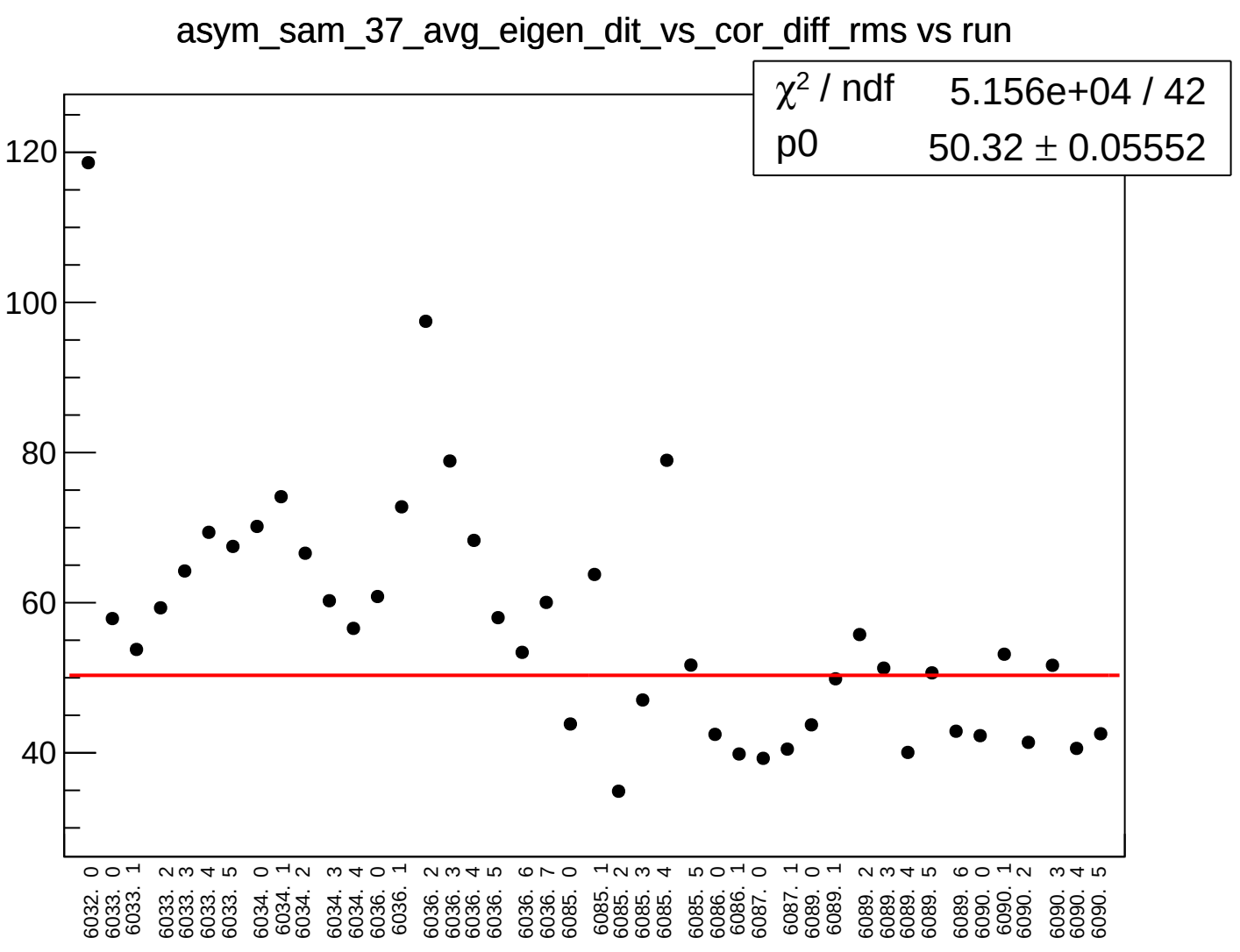


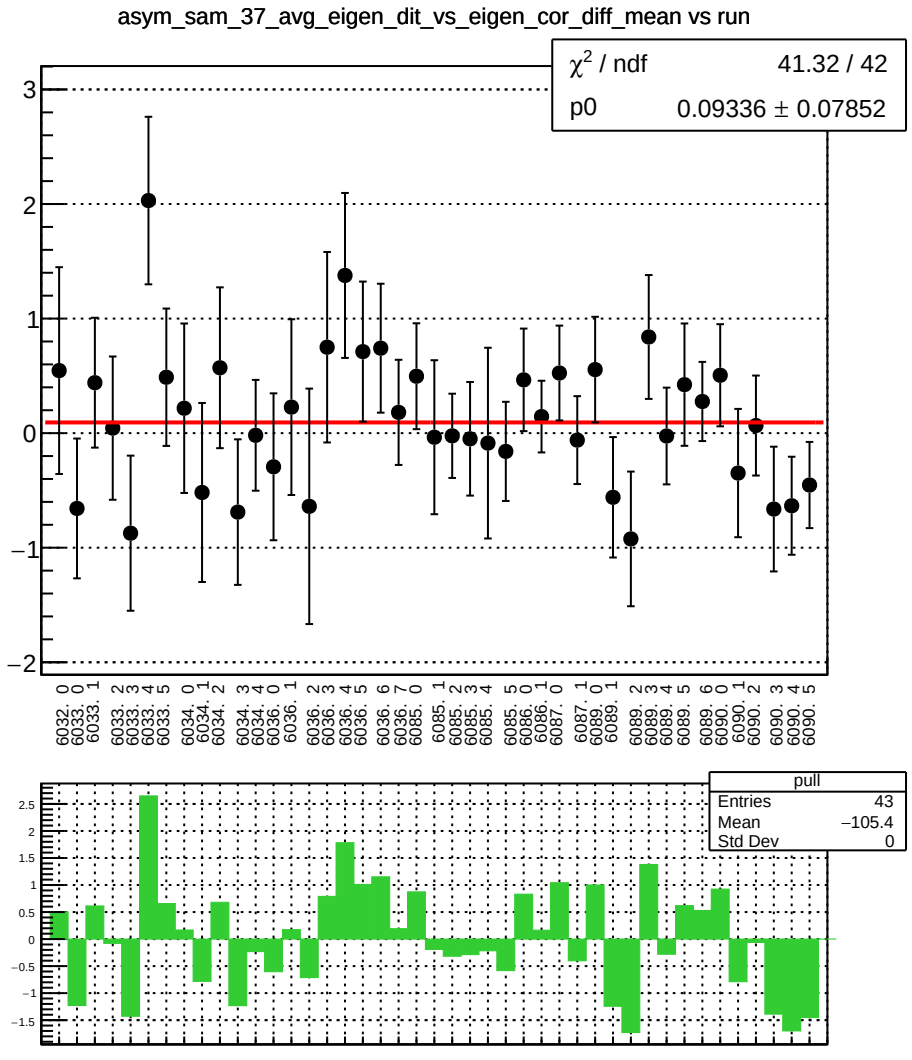

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.156e+04 / 42
p0 50.32 ± 0.05552
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

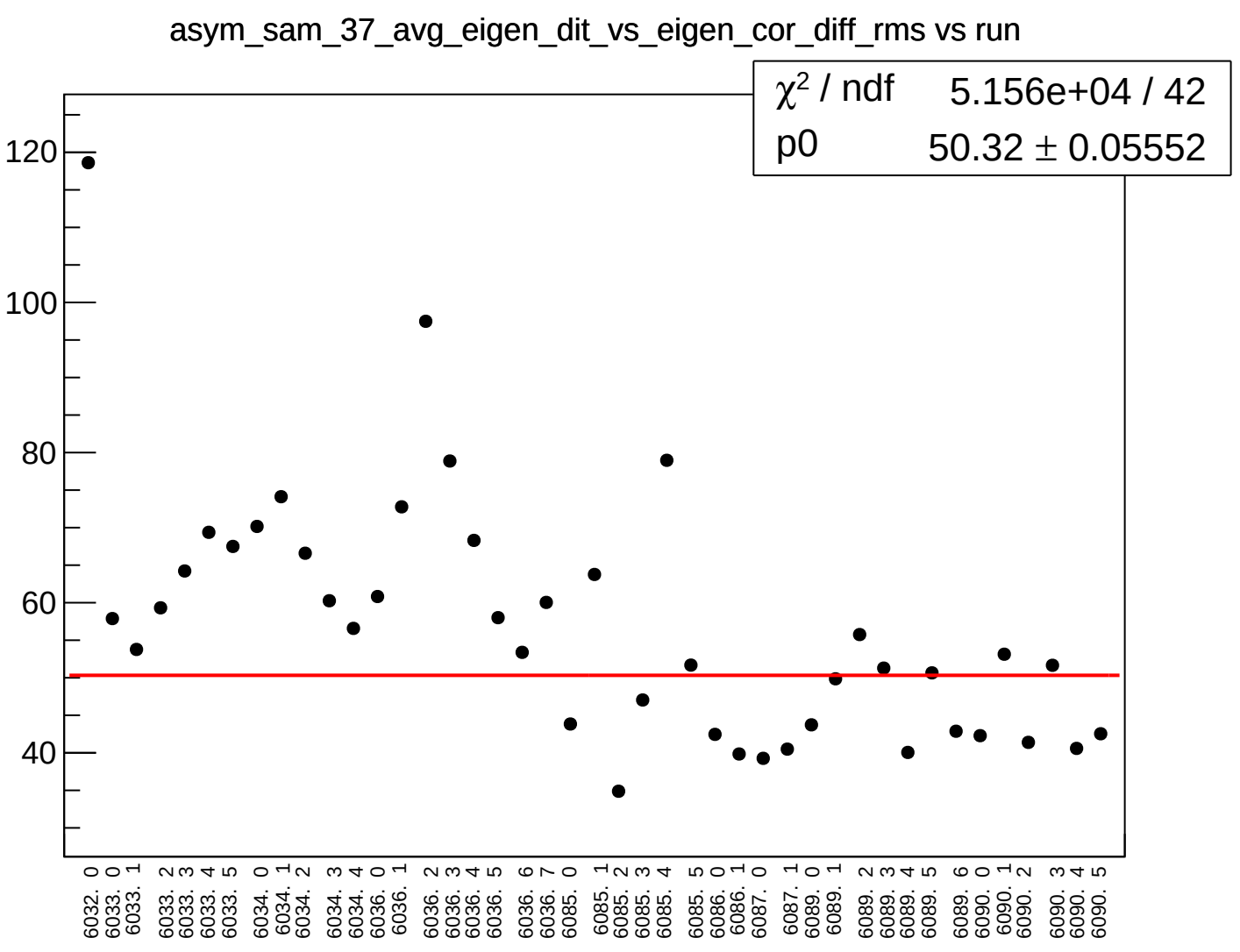

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.4 / 42
p0 2.075e−06 ± 5.498e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.05
Std Dev 26.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03013
Std Dev 0.9808
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

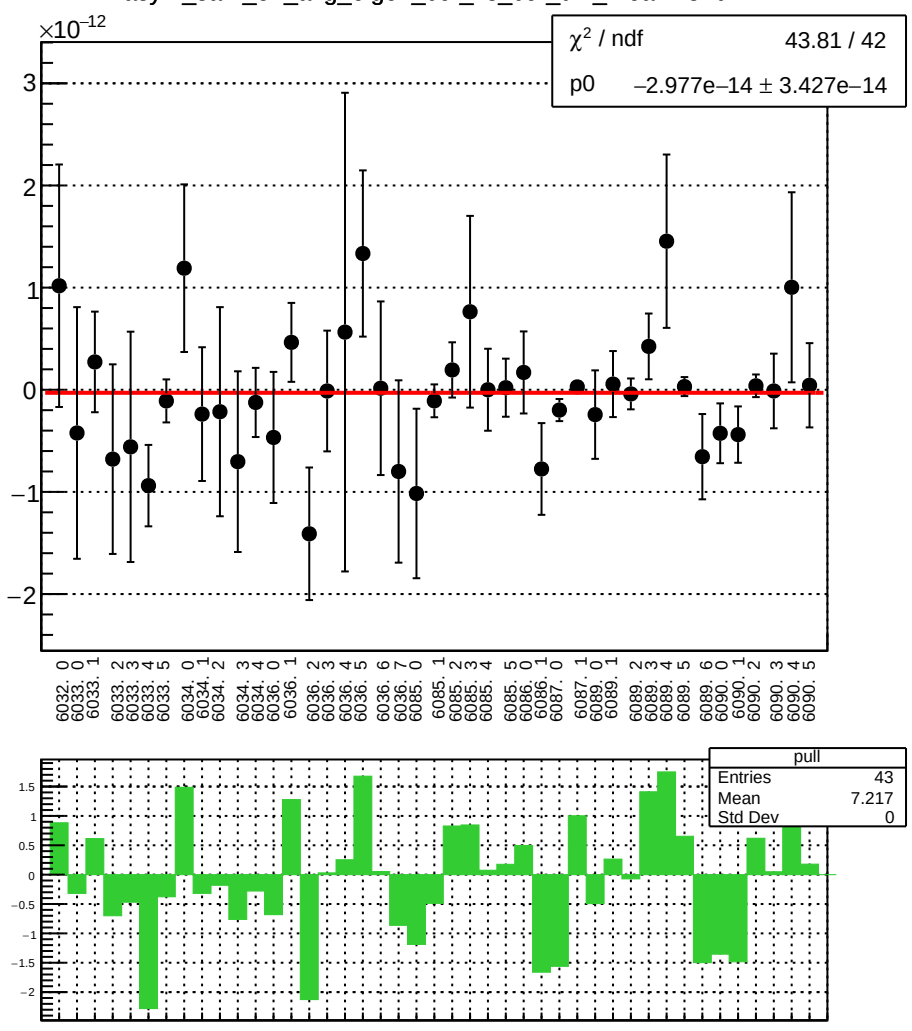

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.552e+04 / 42
p0 0.003579 ± 3.888e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

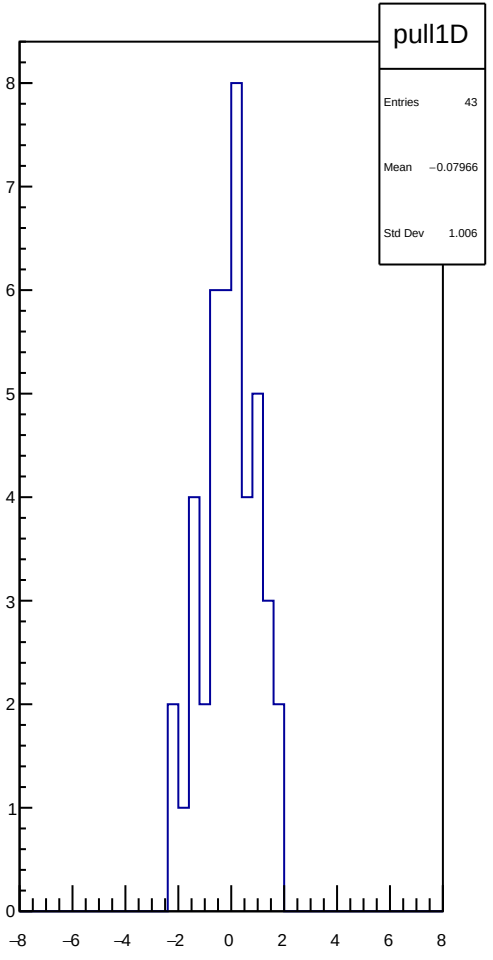

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.32 / 42
p0 0.09336 ± 0.07852
pull
Entries 43
Mean −105.4
Std Dev 0
pull1D
Entries 43
Mean 0.01836
Std Dev 0.9801

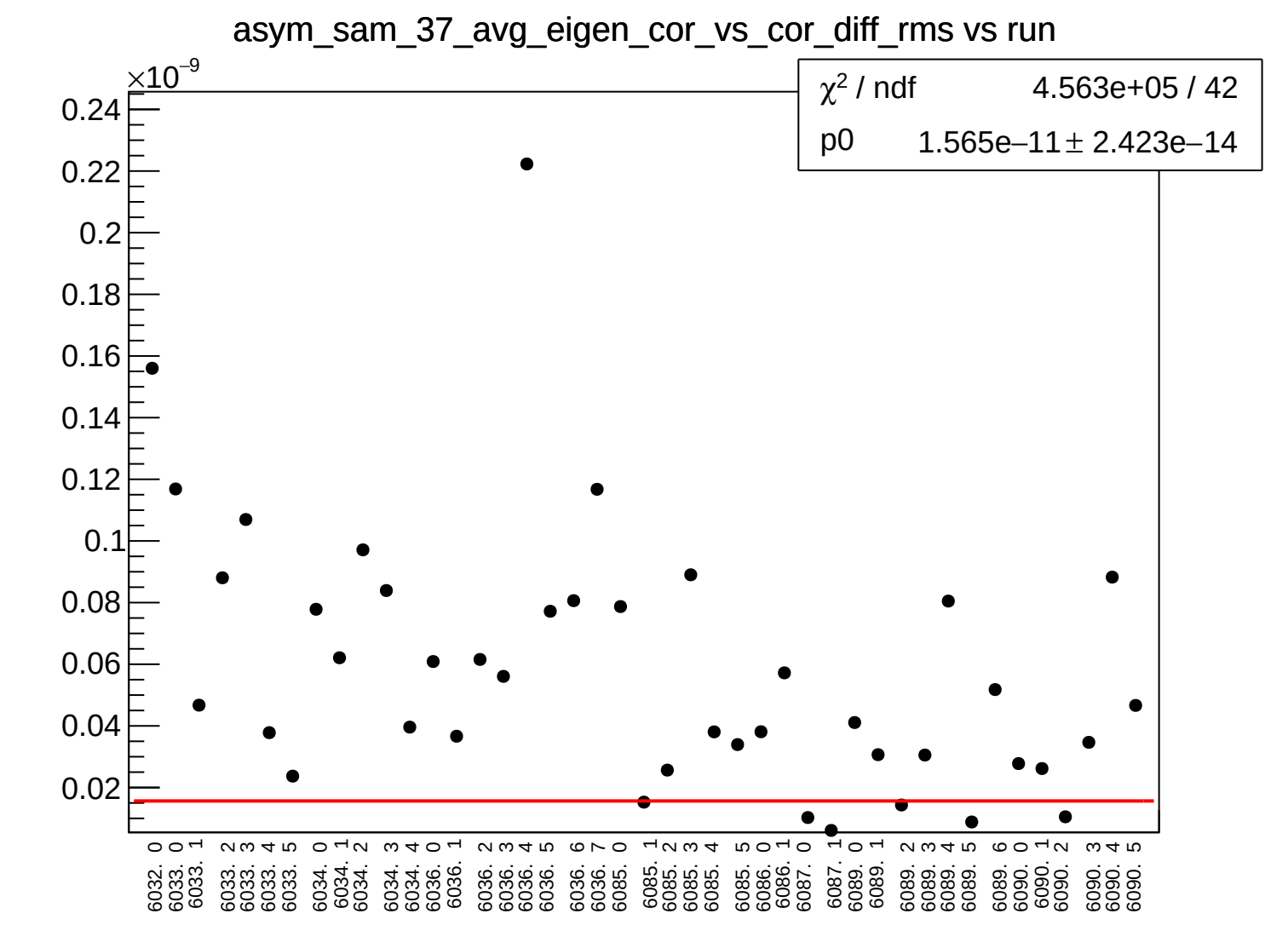

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.156e+04 / 42
p0 50.32 ± 0.05552
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

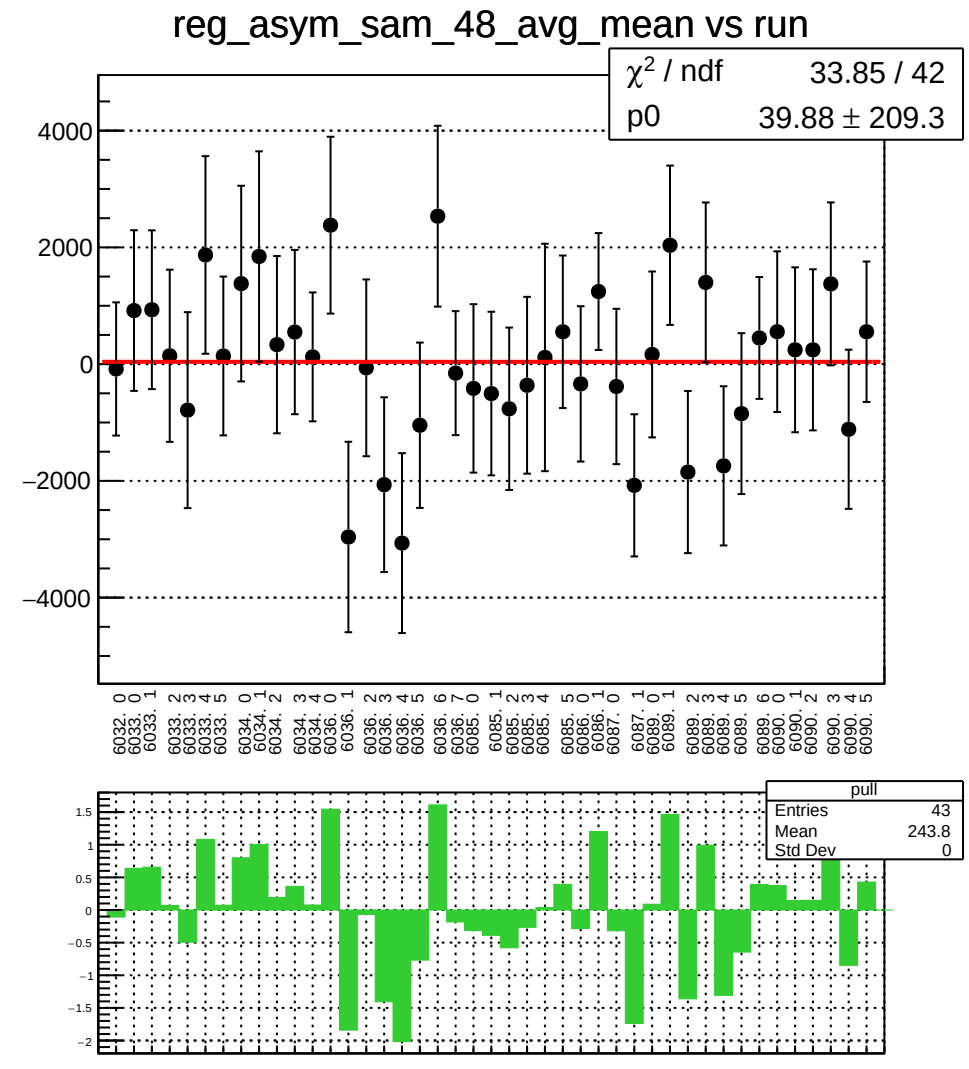

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.32 / 42
p0 0.09336 ± 0.07852
pull
Entries 43
Mean −105.4
Std Dev 0
pull1D
Entries 43
Mean 0.01836
Std Dev 0.9801

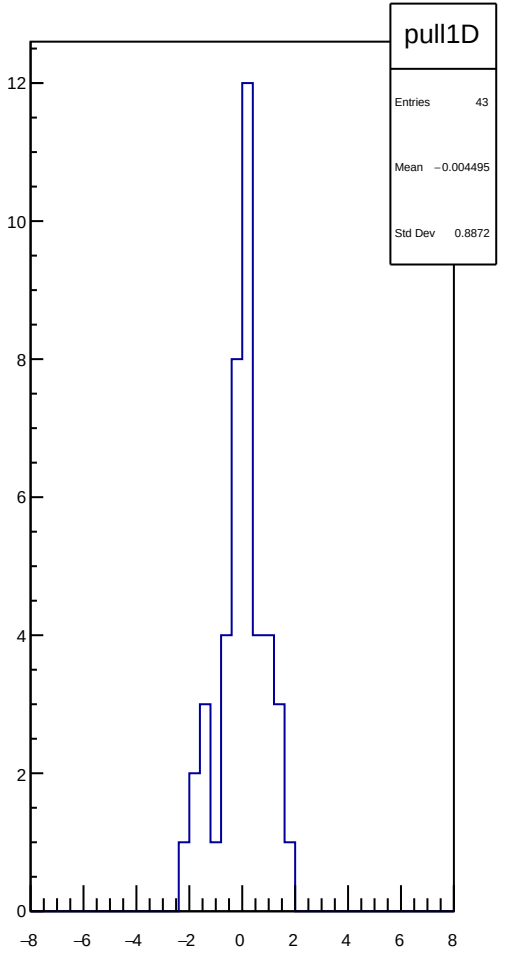

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.156e+04 / 42
p0 50.32 ± 0.05552
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

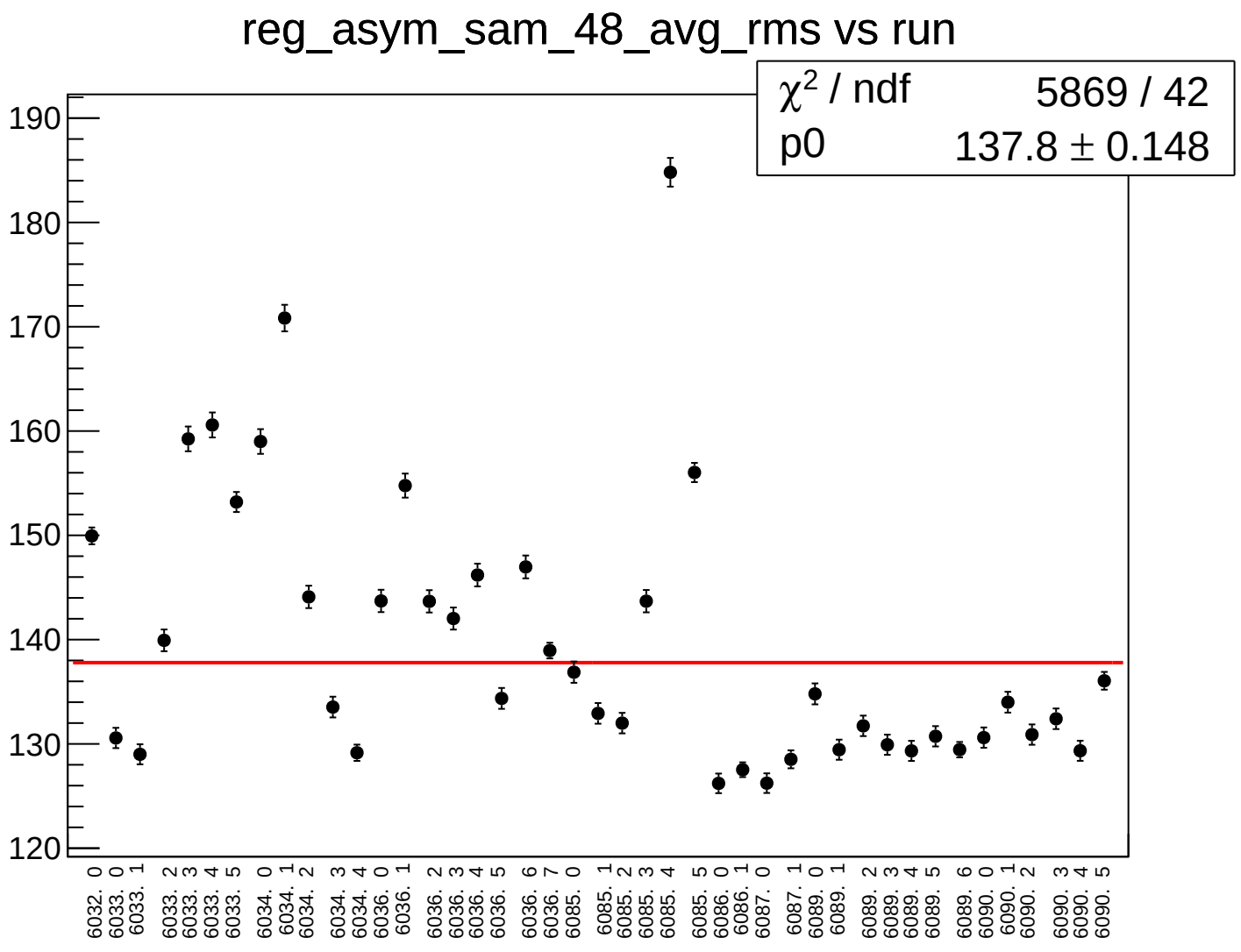

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.81 / 42
p0 −2.977e−14 ± 3.427e−14
pull
Entries 43
Mean 7.217
Std Dev 0

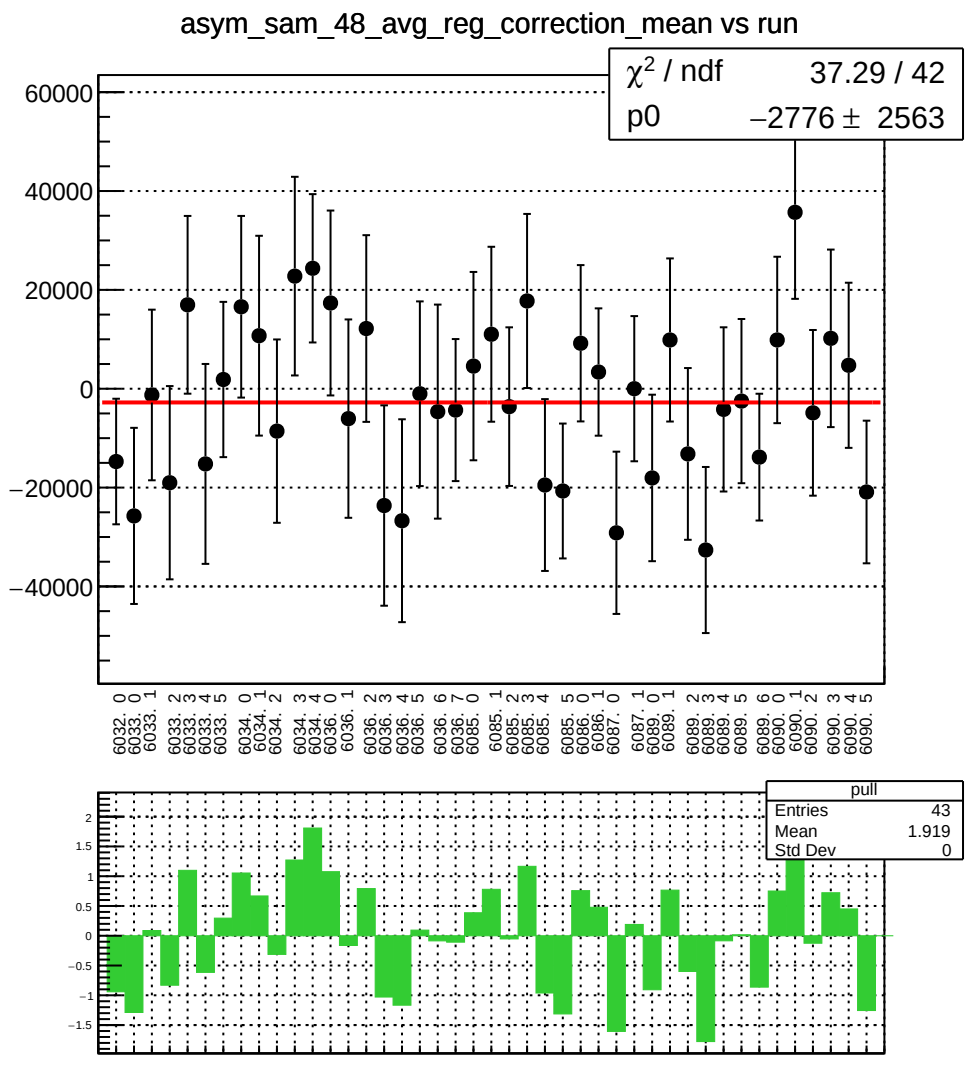

pull1D
Entries 43
Mean −0.07966
Std Dev 1.006

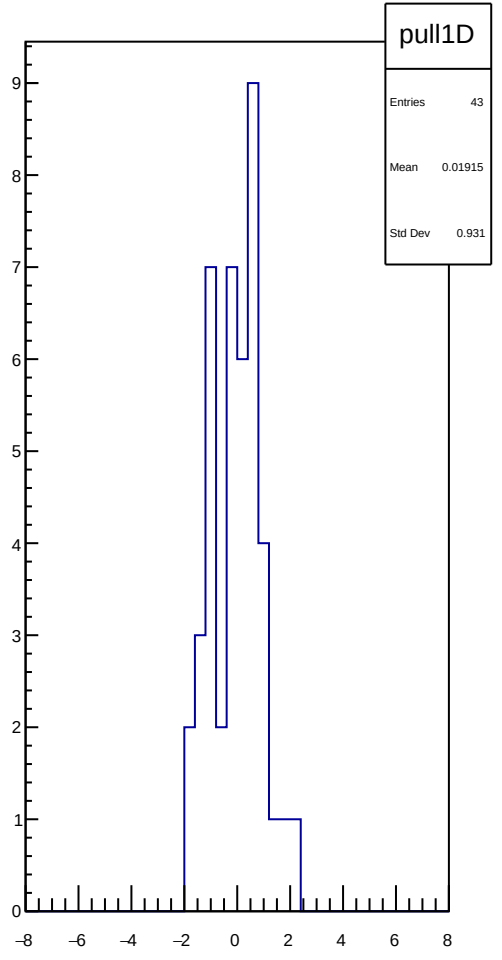

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.563e+05 / 42
p0 1.565e−11 ± 2.423e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

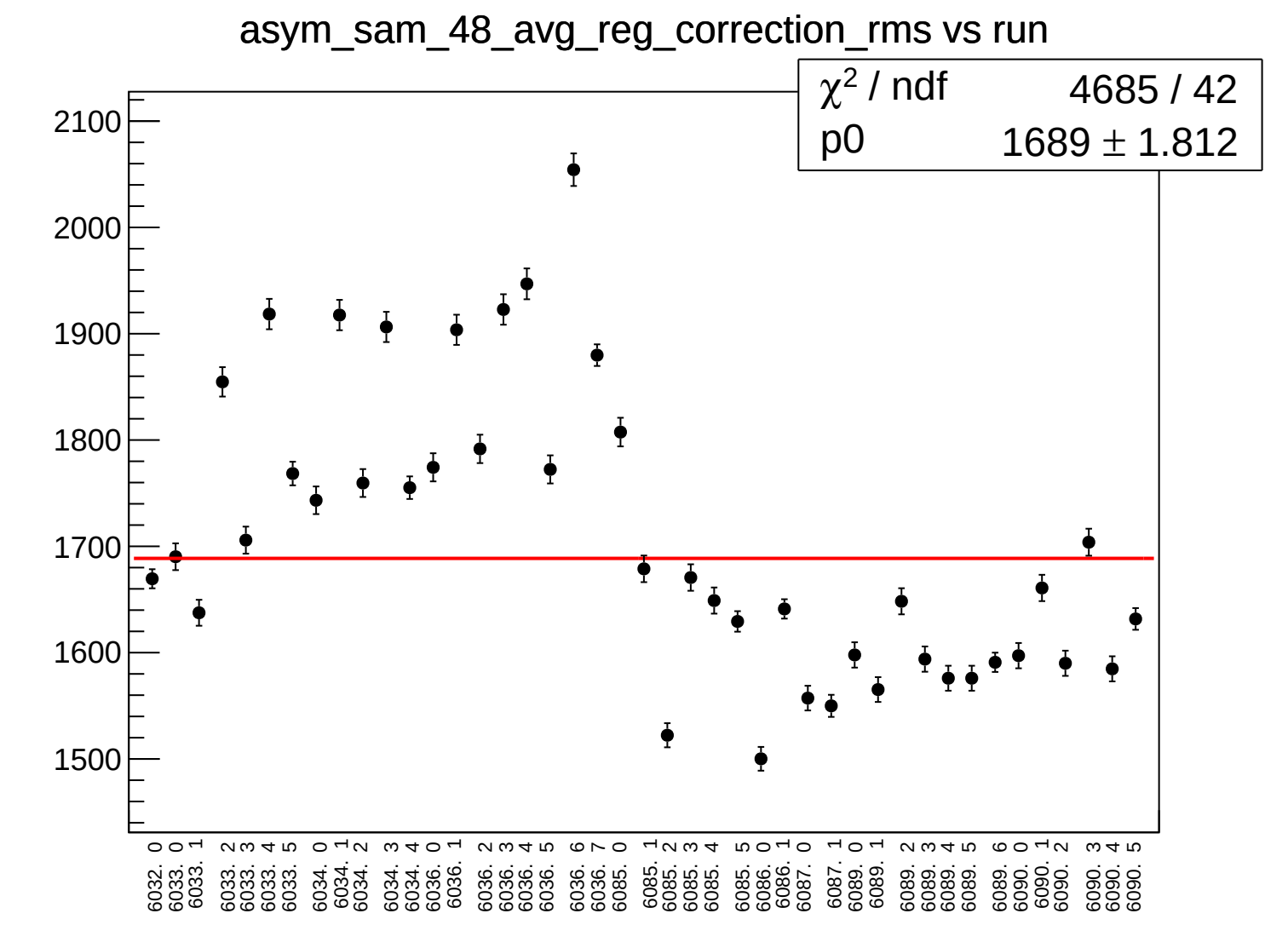

reg_asym_sam_48_avg_mean vs run
χ² / ndf 33.85 / 42
p0 39.88 ± 209.3
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 243.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

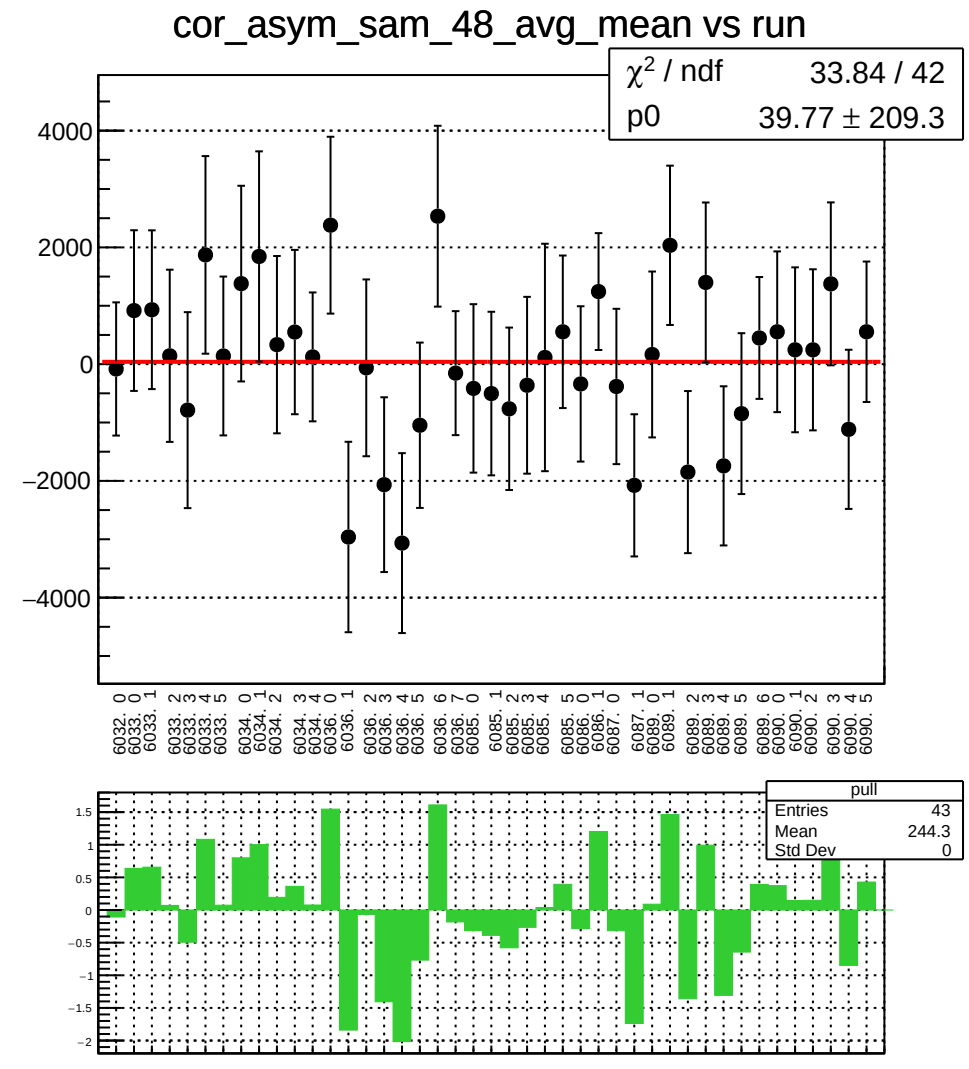

pull1D
Entries 43
Mean −0.004495
Std Dev 0.8872
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

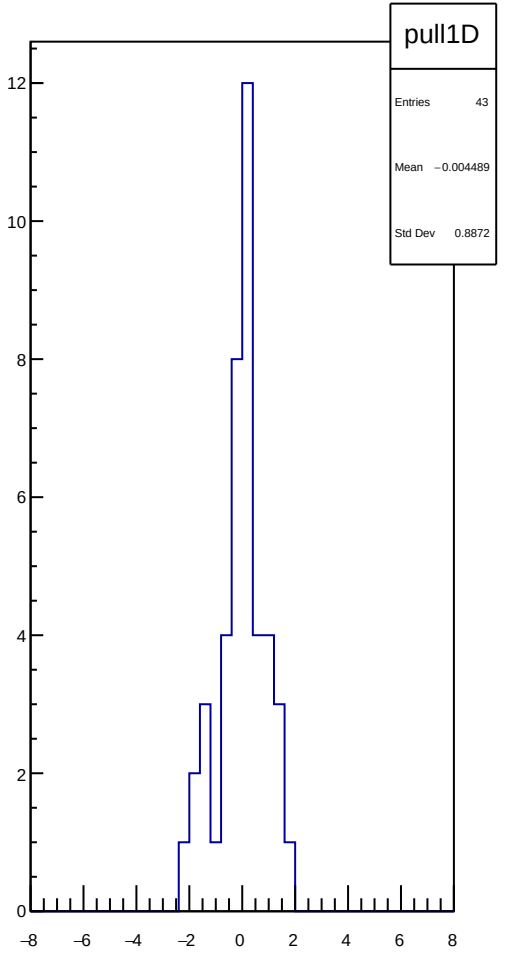

reg_asym_sam_48_avg_rms vs run
χ² / ndf 5869 / 42
p0 137.8 ± 0.148
190
180
170
160
150
140
130
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

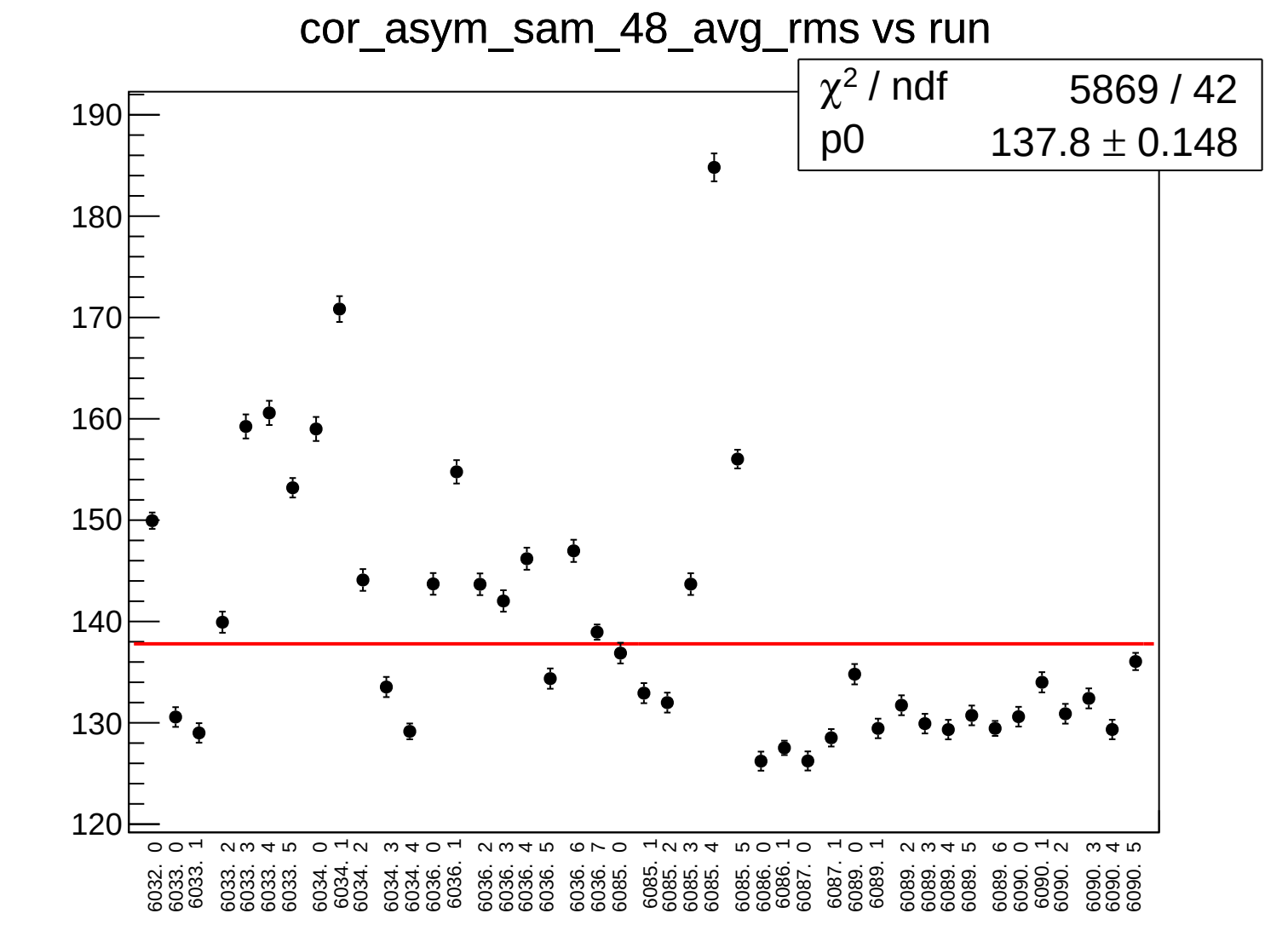

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 37.29 / 42
p0 −2776 ± 2563
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.919
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

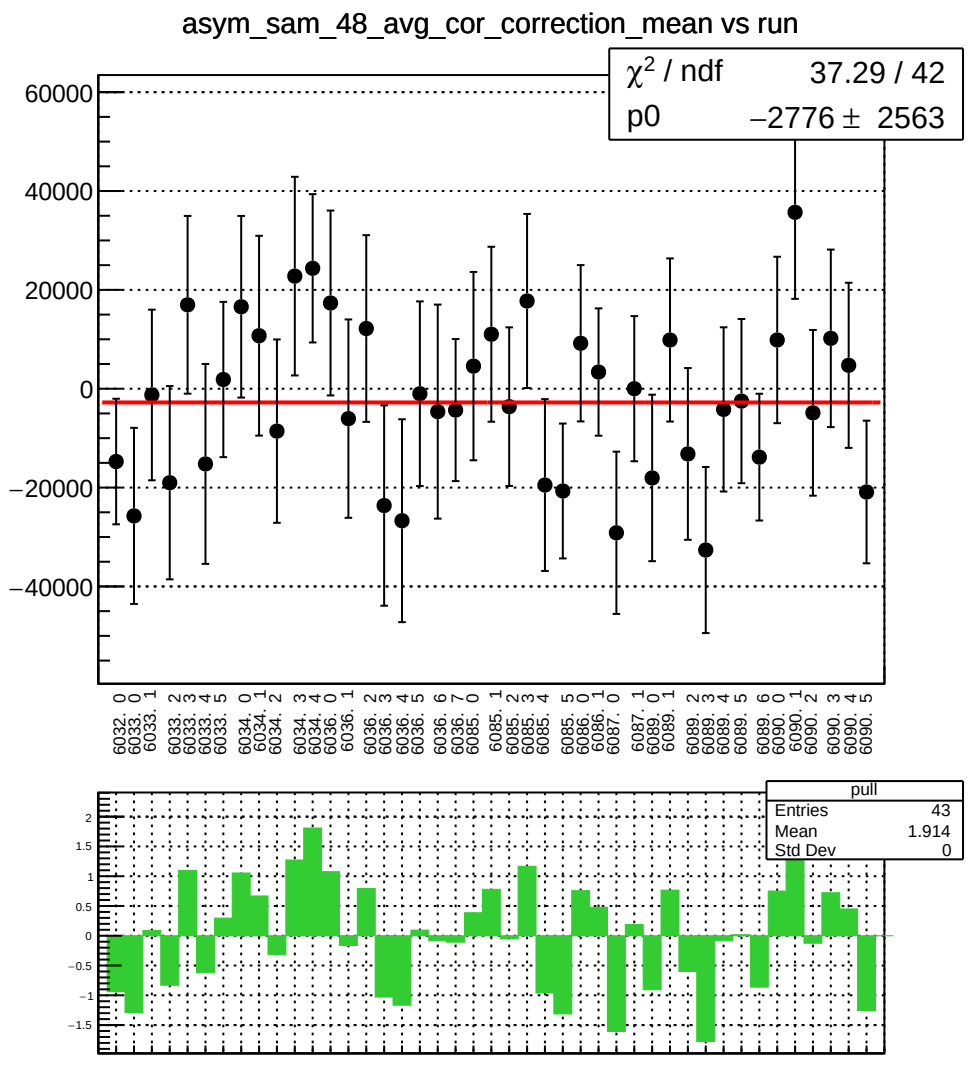

pull1D
Entries 43
Mean 0.01915
Std Dev 0.931
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

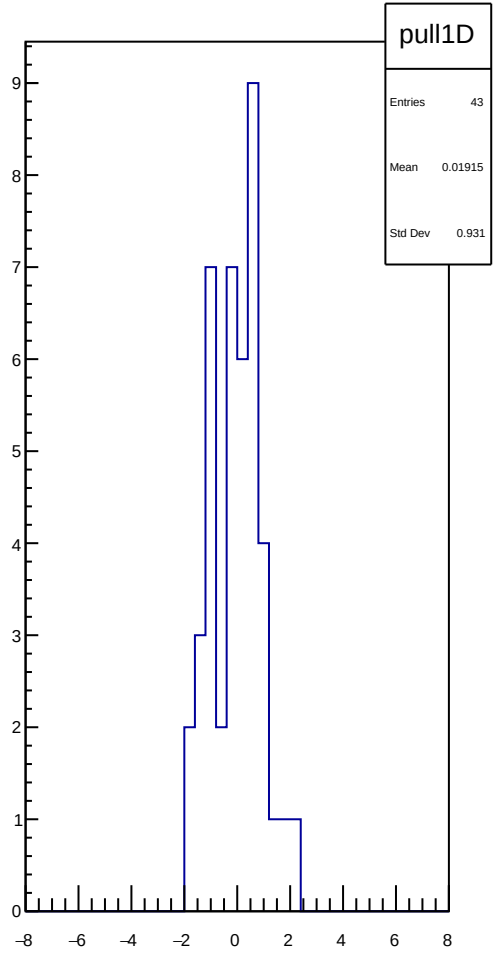

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 4685 / 42
p0 1689 ± 1.812
2100
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

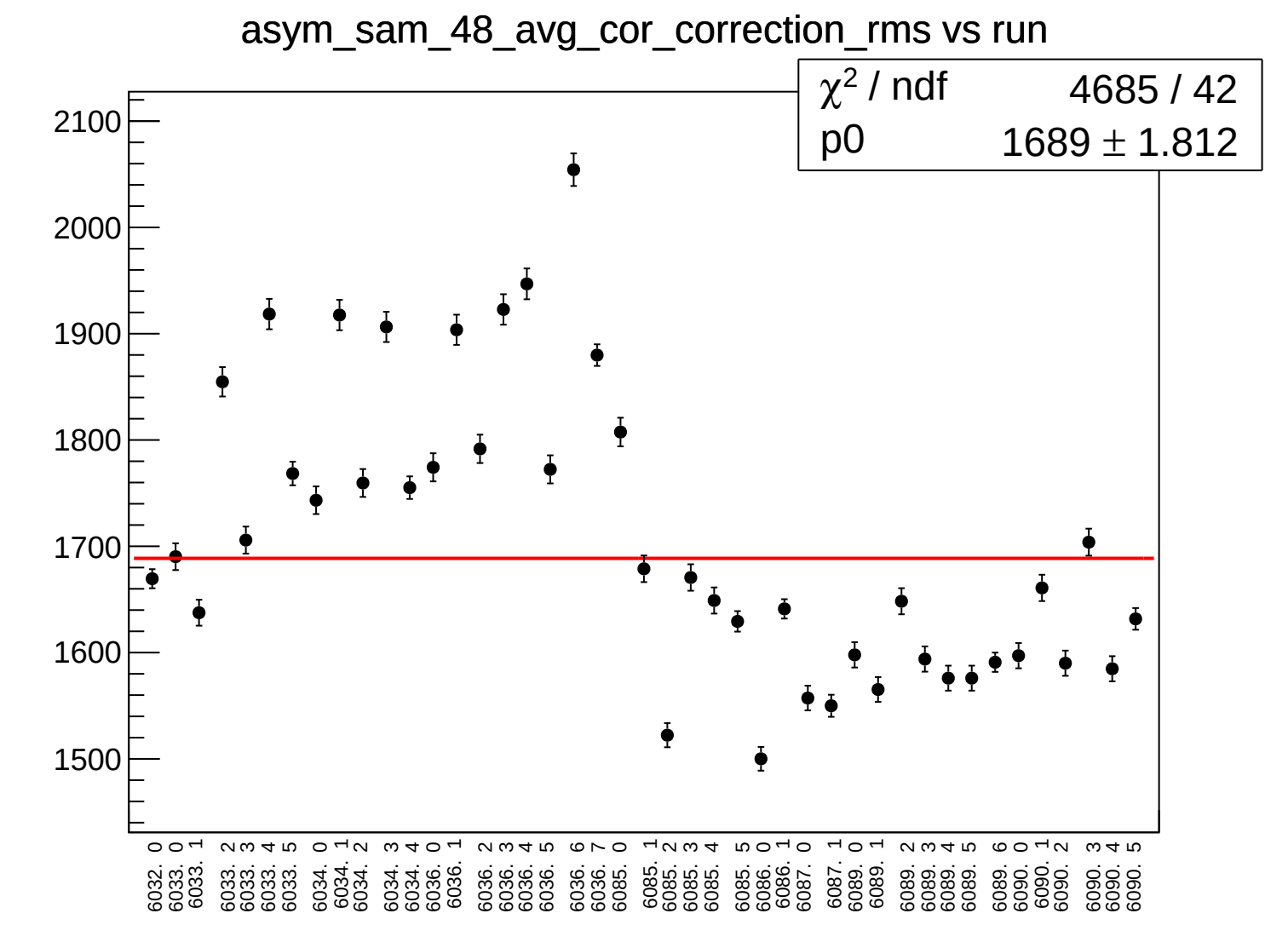

cor_asym_sam_48_avg_mean vs run
χ² / ndf 33.84 / 42
p0 39.77 ± 209.3
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 244.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

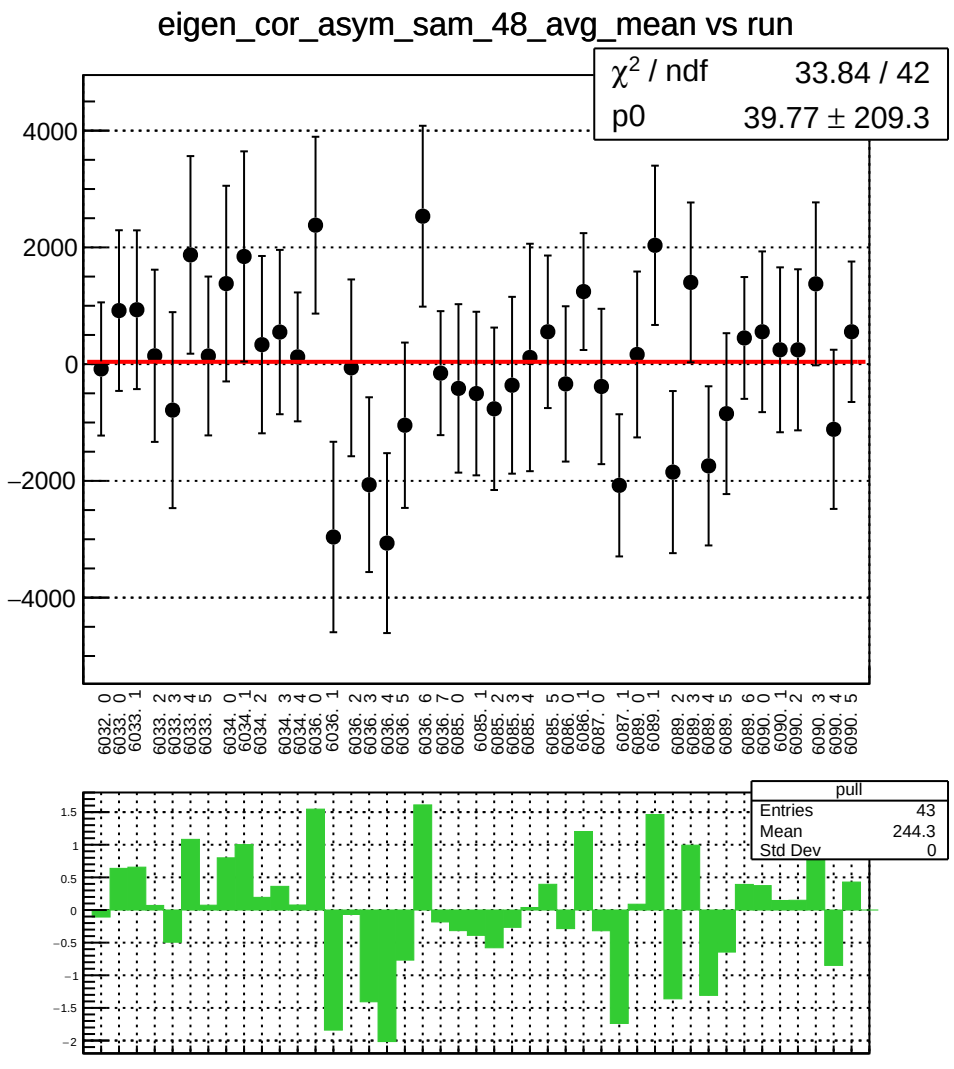

pull1D
Entries 43
Mean −0.004489
Std Dev 0.8872
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

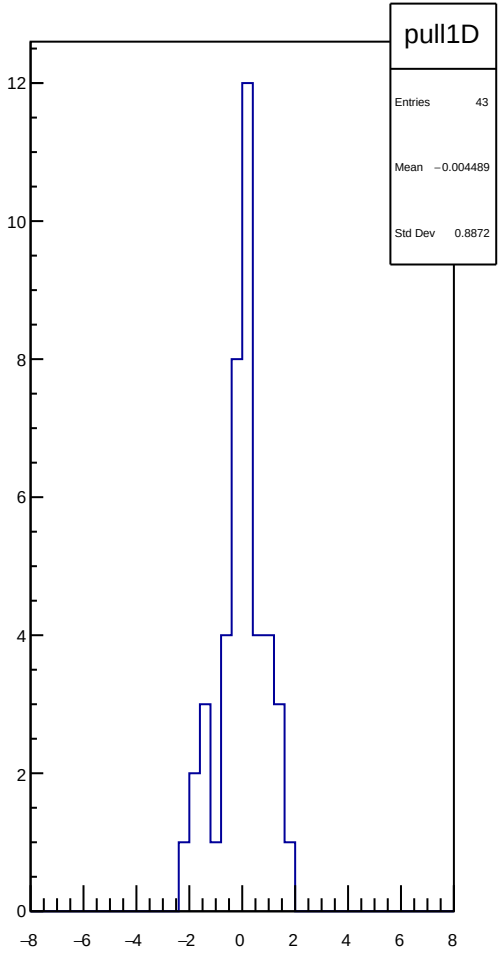

cor_asym_sam_48_avg_rms vs run
χ² / ndf 5869 / 42
p0 137.8 ± 0.148
190
180
170
160
150
140
130
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

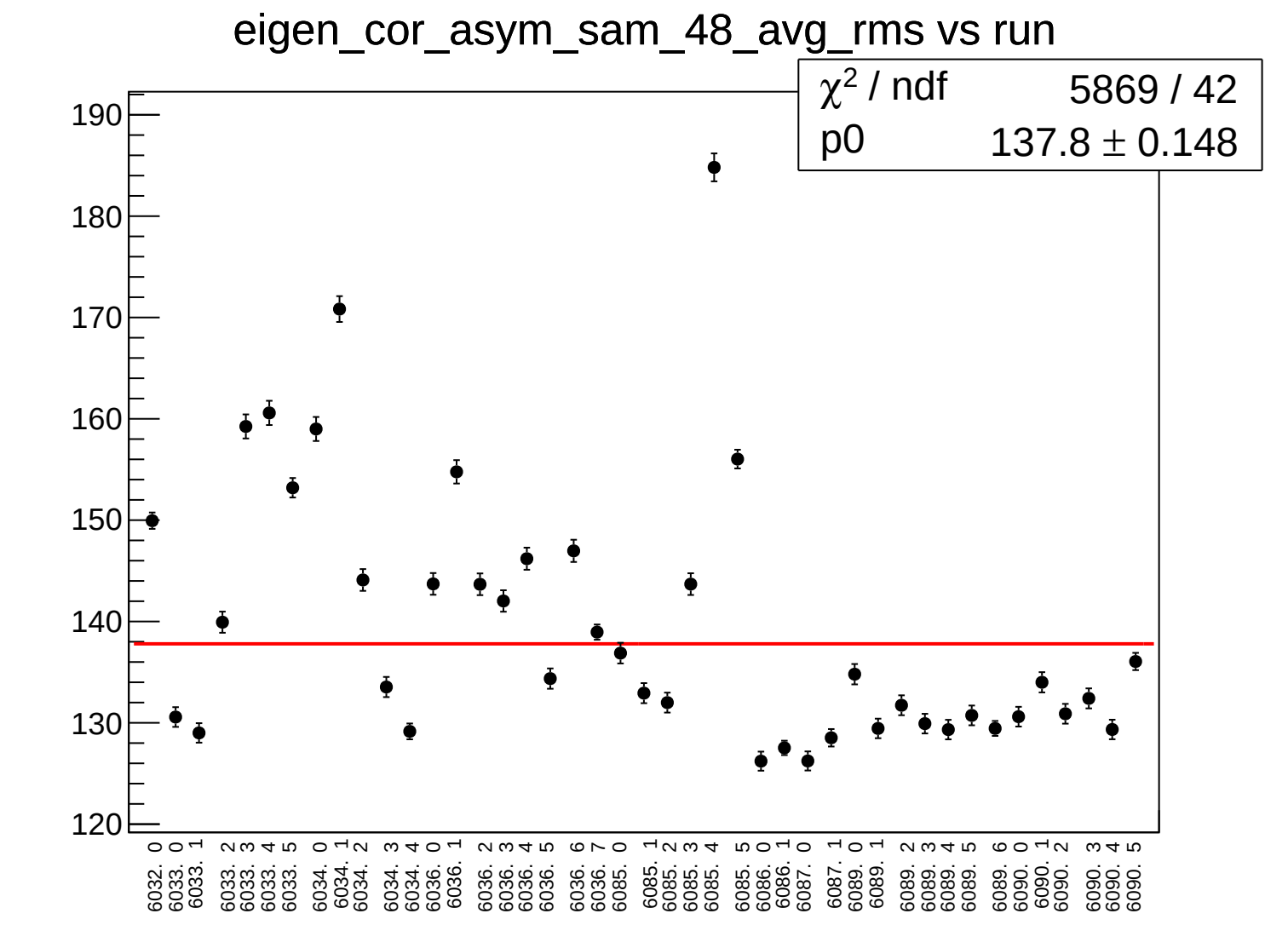

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 37.29 / 42
p0 −2776 ± 2563
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.914
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

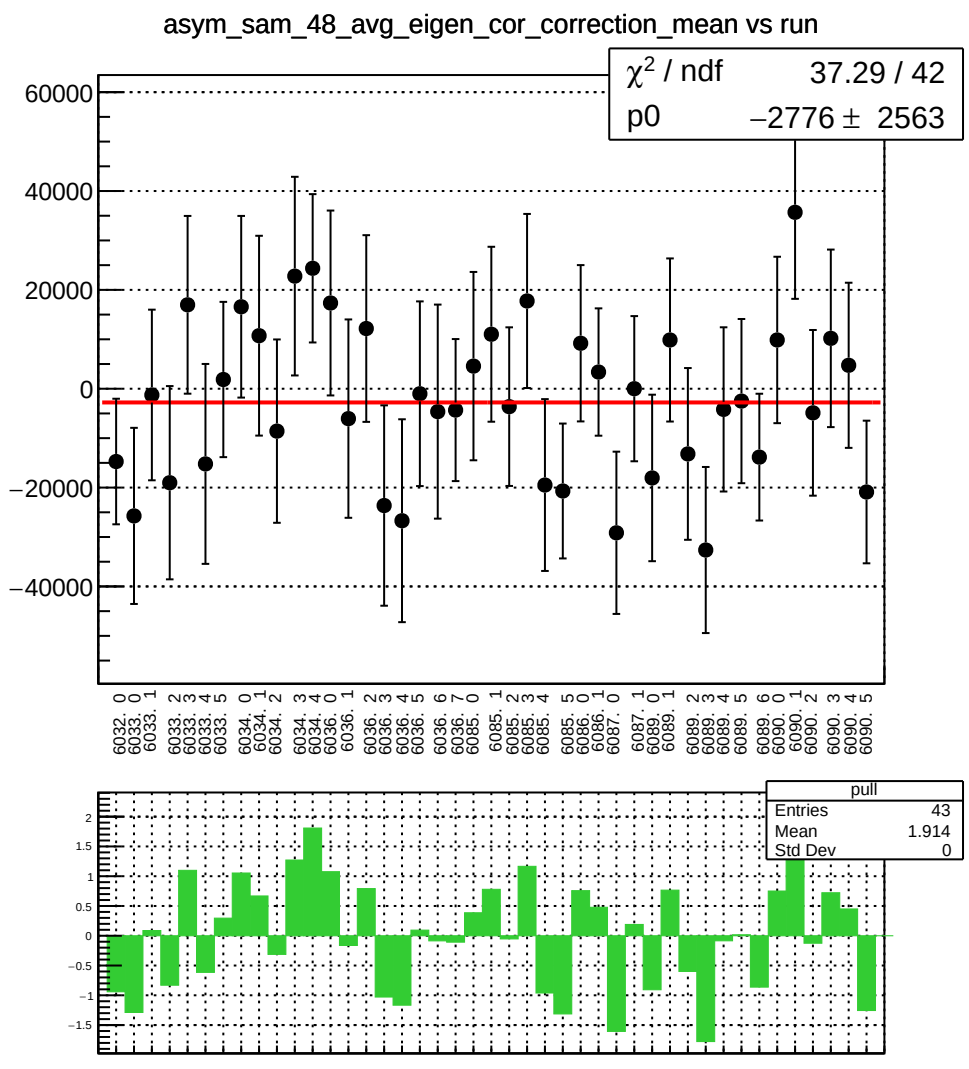

pull1D
Entries 43
Mean 0.01915
Std Dev 0.931
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

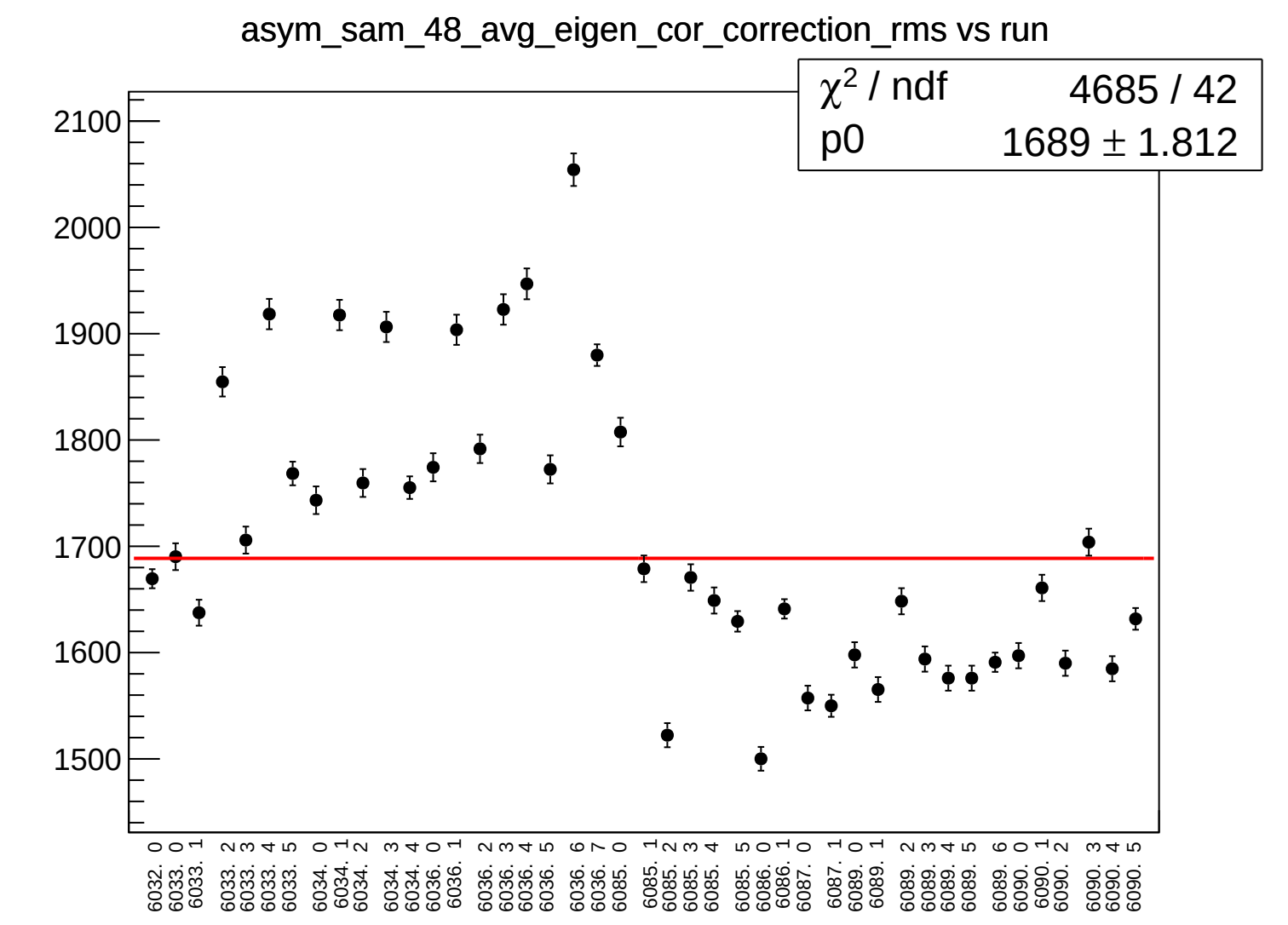

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 4685 / 42
p0 1689 ± 1.812
2100
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

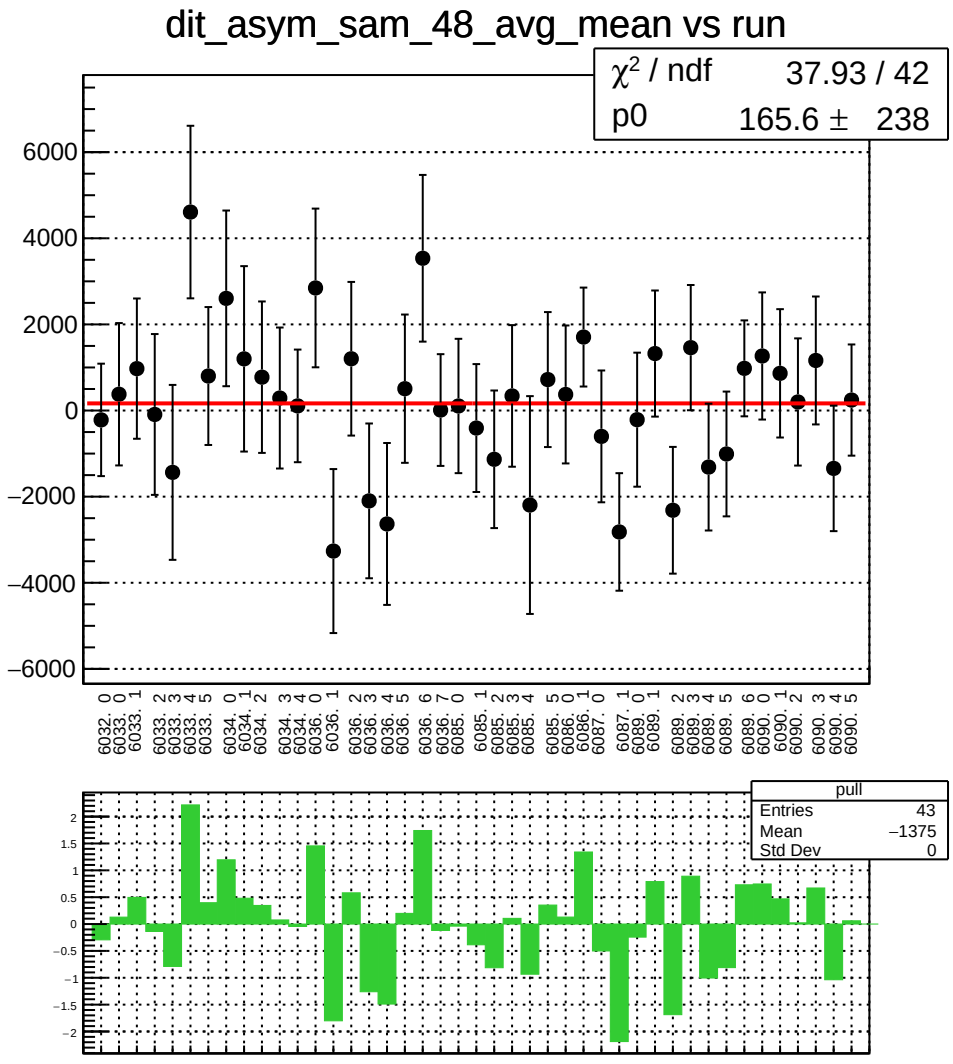

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 33.84 / 42
p0 39.77 ± 209.3
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 244.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

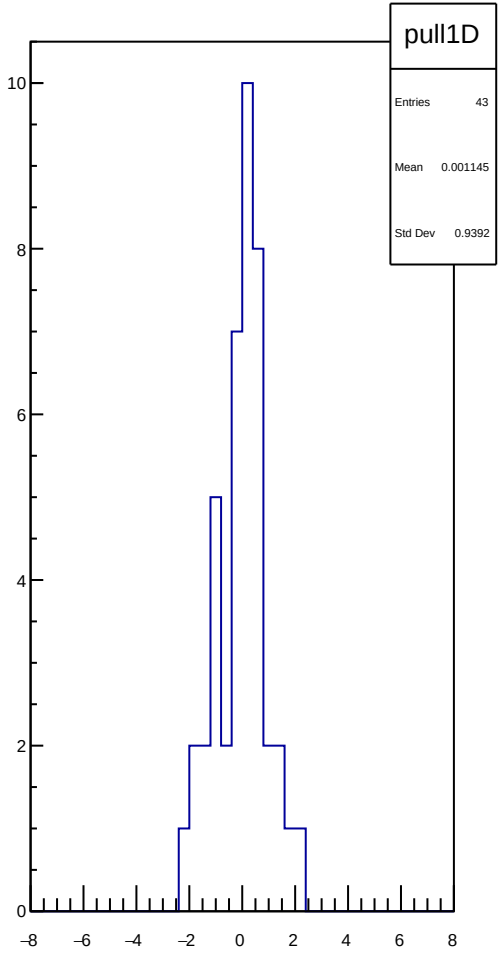

pull1D
Entries 43
Mean −0.004489
Std Dev 0.8872
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

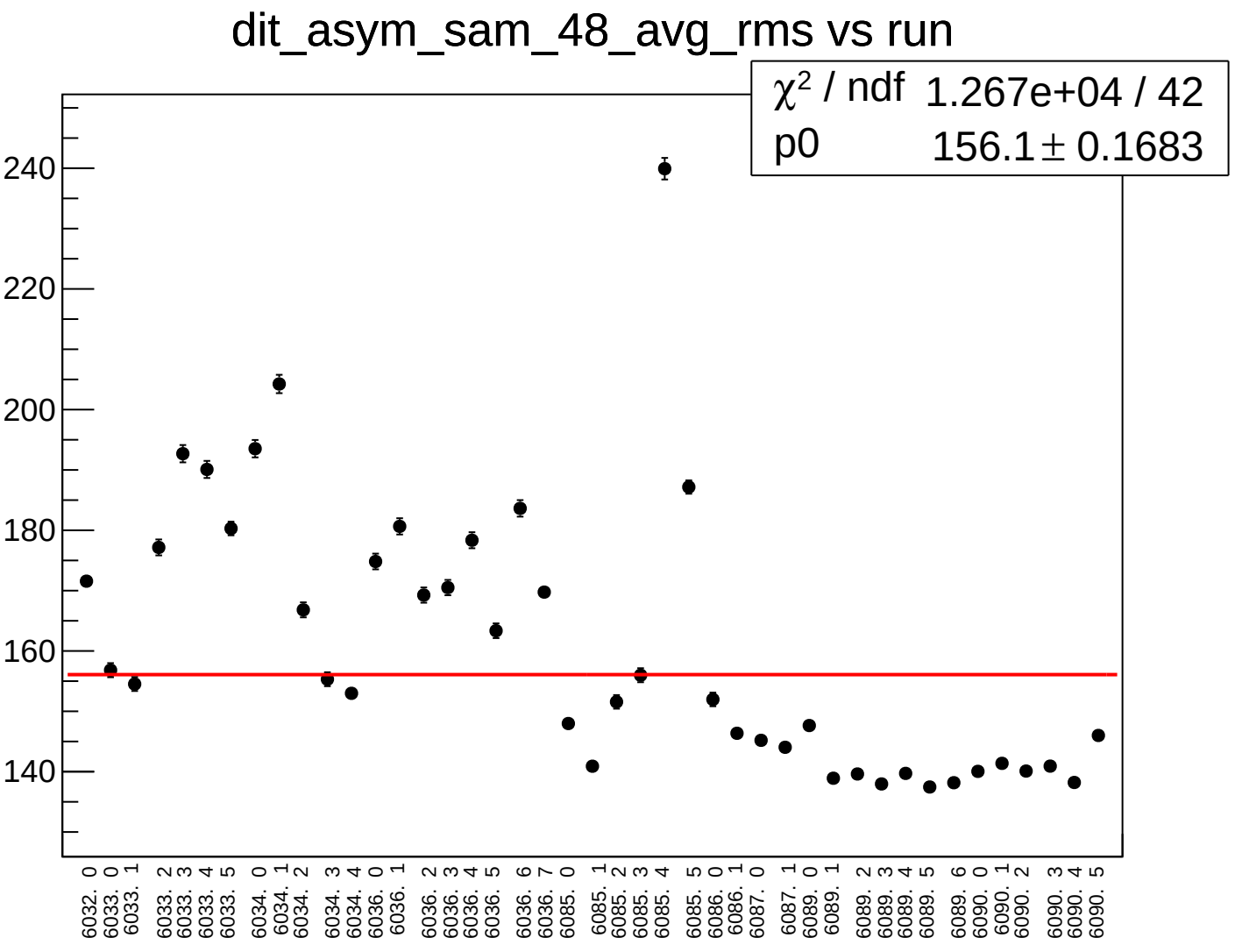

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 5869 / 42
p0 137.8 ± 0.148
190
180
170
160
150
140
130
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

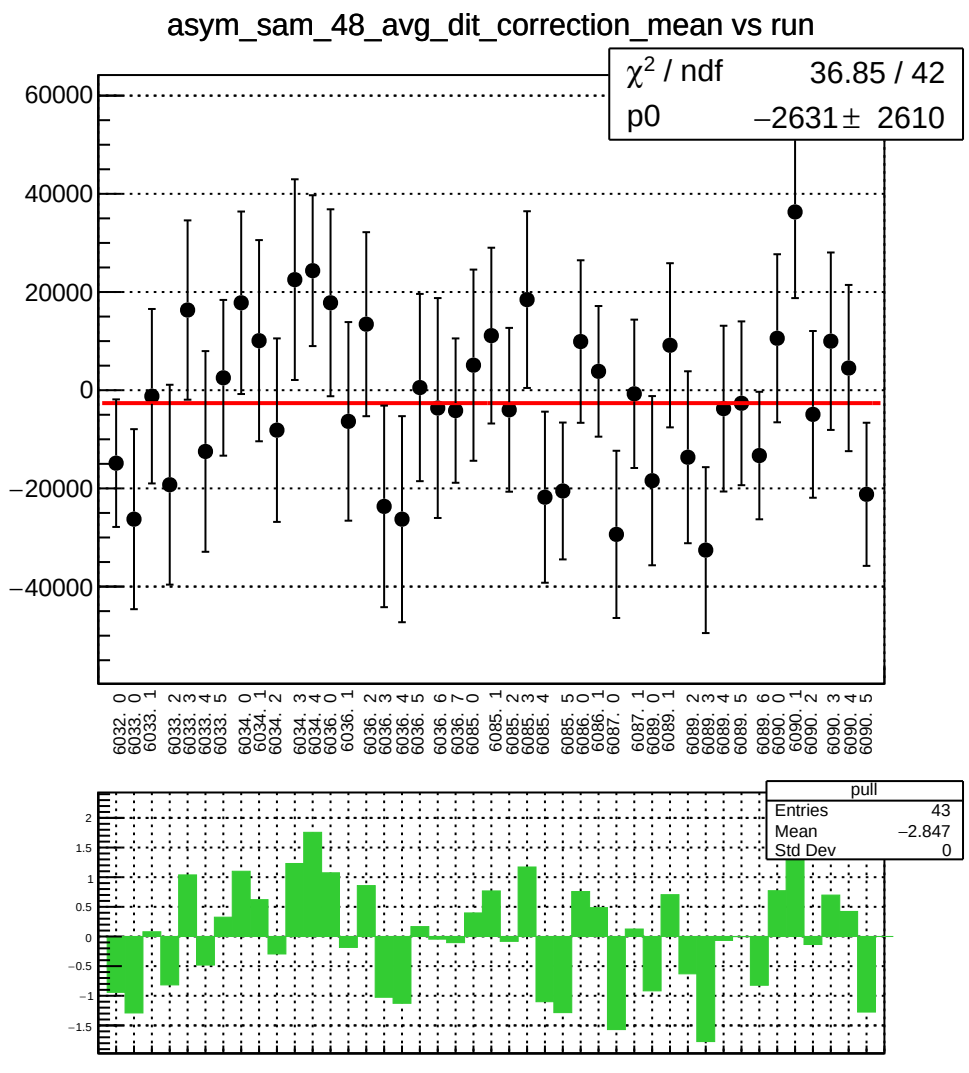

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.29 / 42
p0 −2776 ± 2563
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.914
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01915
Std Dev 0.931
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

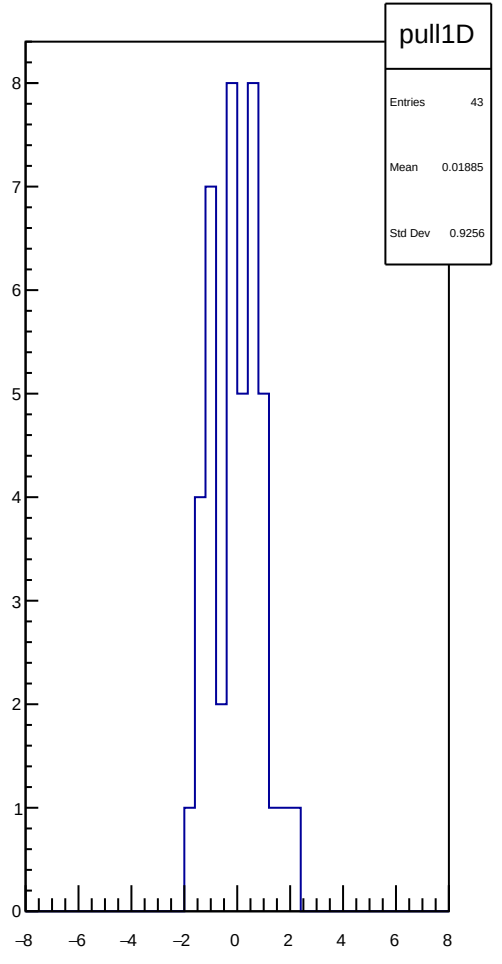

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 4685 / 42
p0 1689 ± 1.812
2100
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

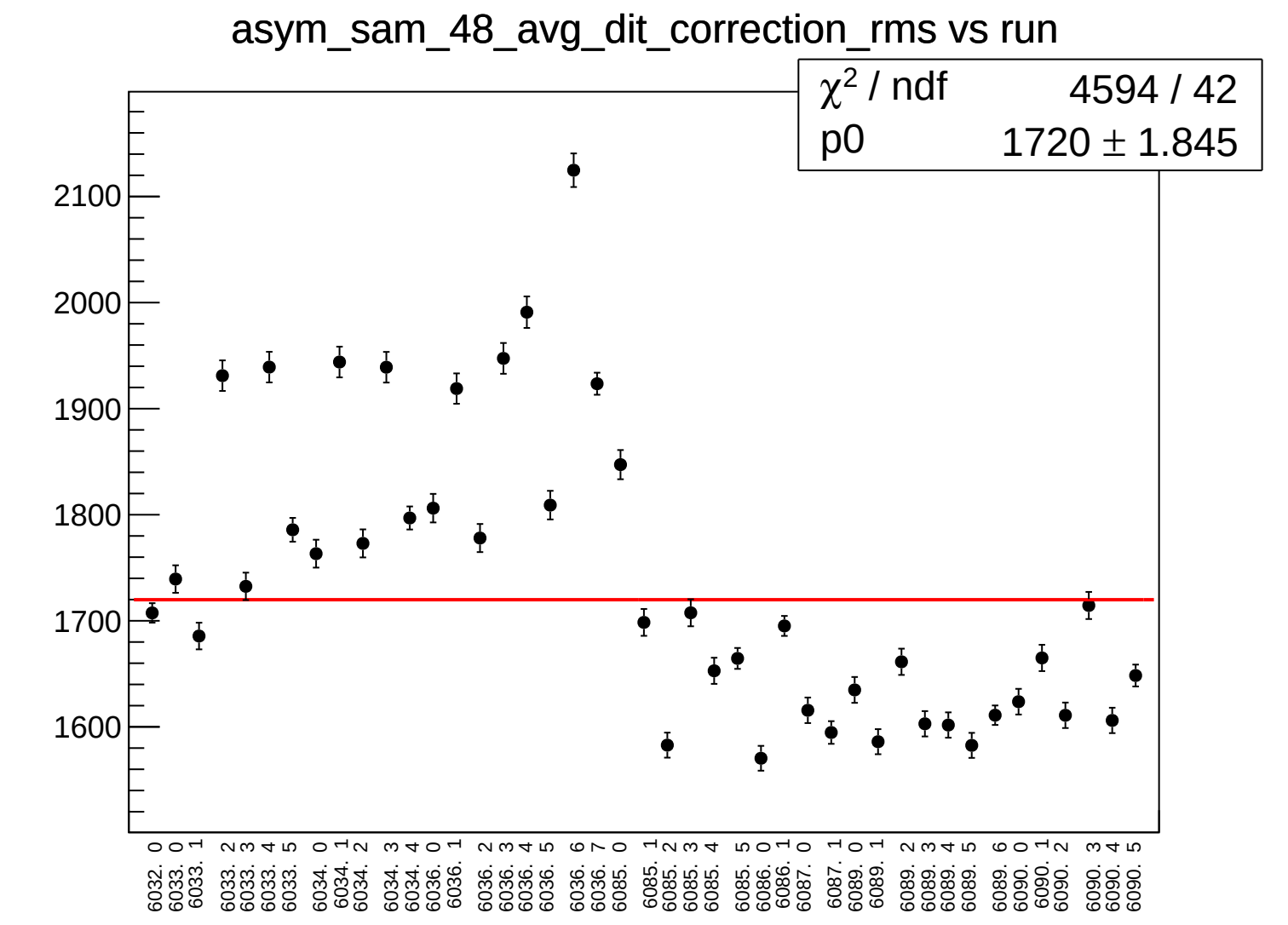

dit_asym_sam_48_avg_mean vs run
χ² / ndf 37.93 / 42
p0 165.6 ± 238
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1375
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

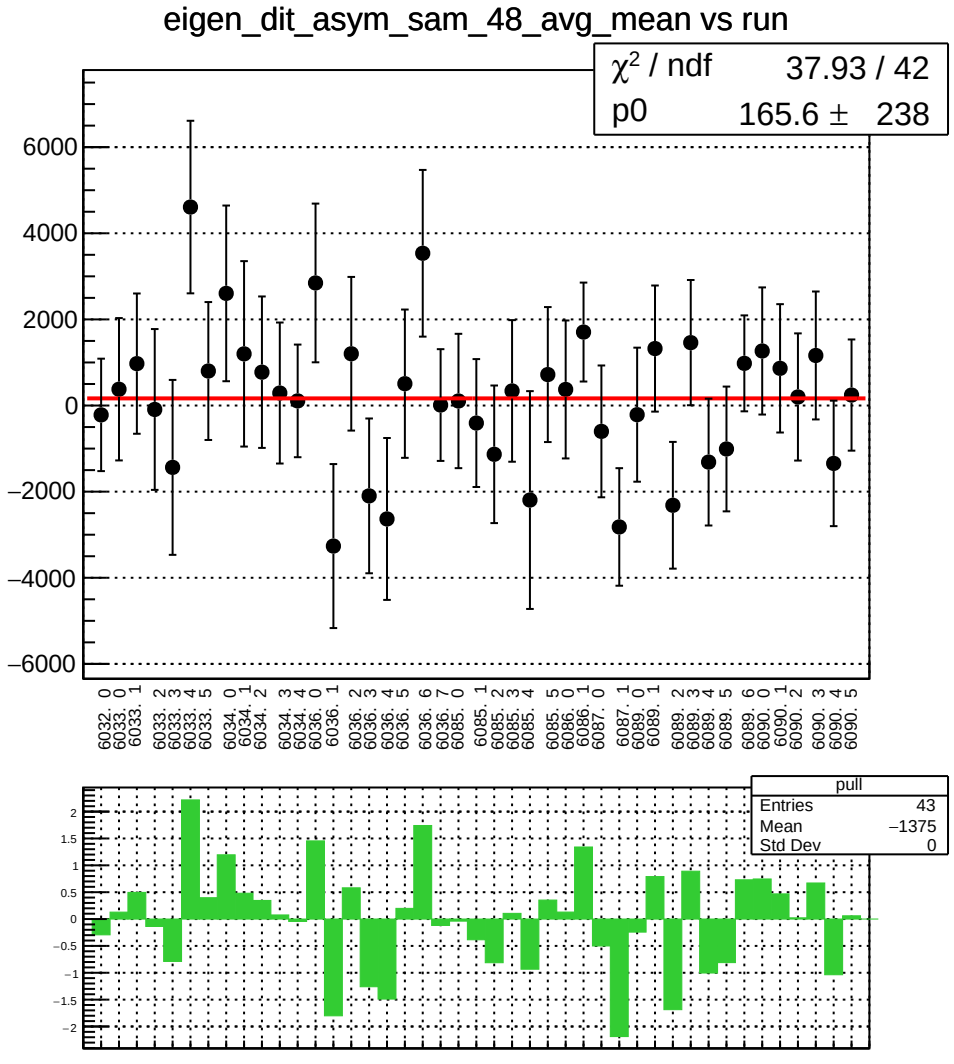

pull1D
Entries 43
Mean 0.001145
Std Dev 0.9392
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

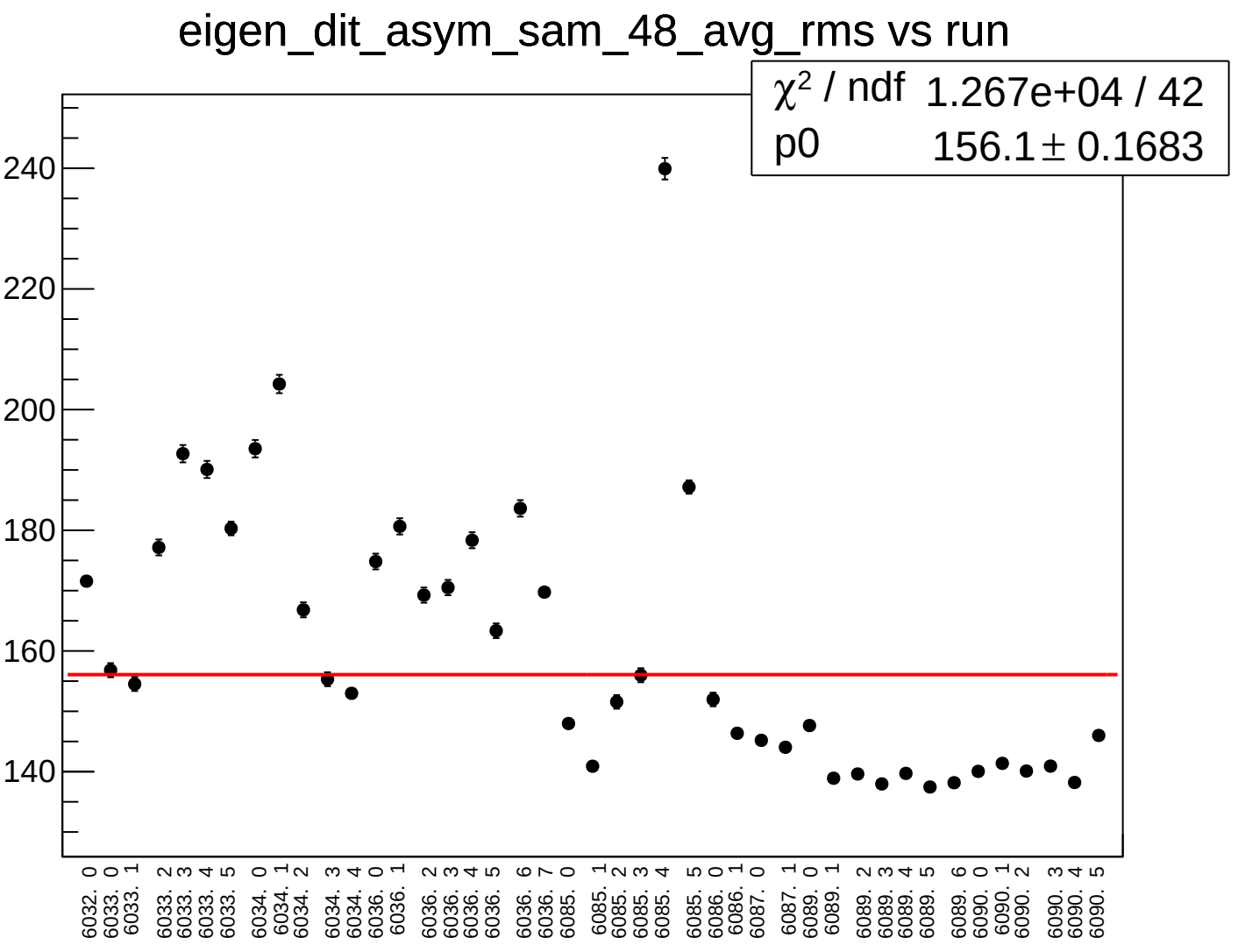

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.267e+04 / 42
p0 156.1 ± 0.1683
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

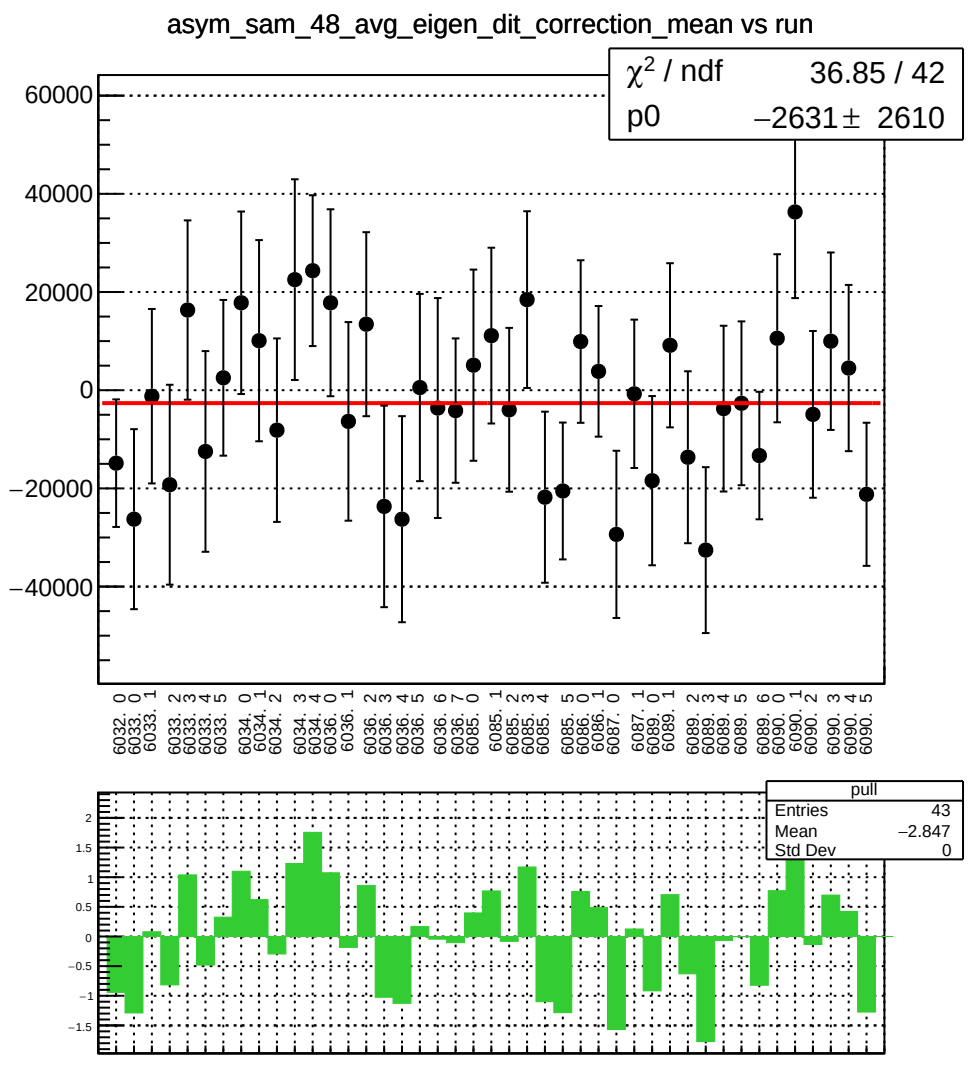

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 36.85 / 42
p0 −2631 ± 2610
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.847
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

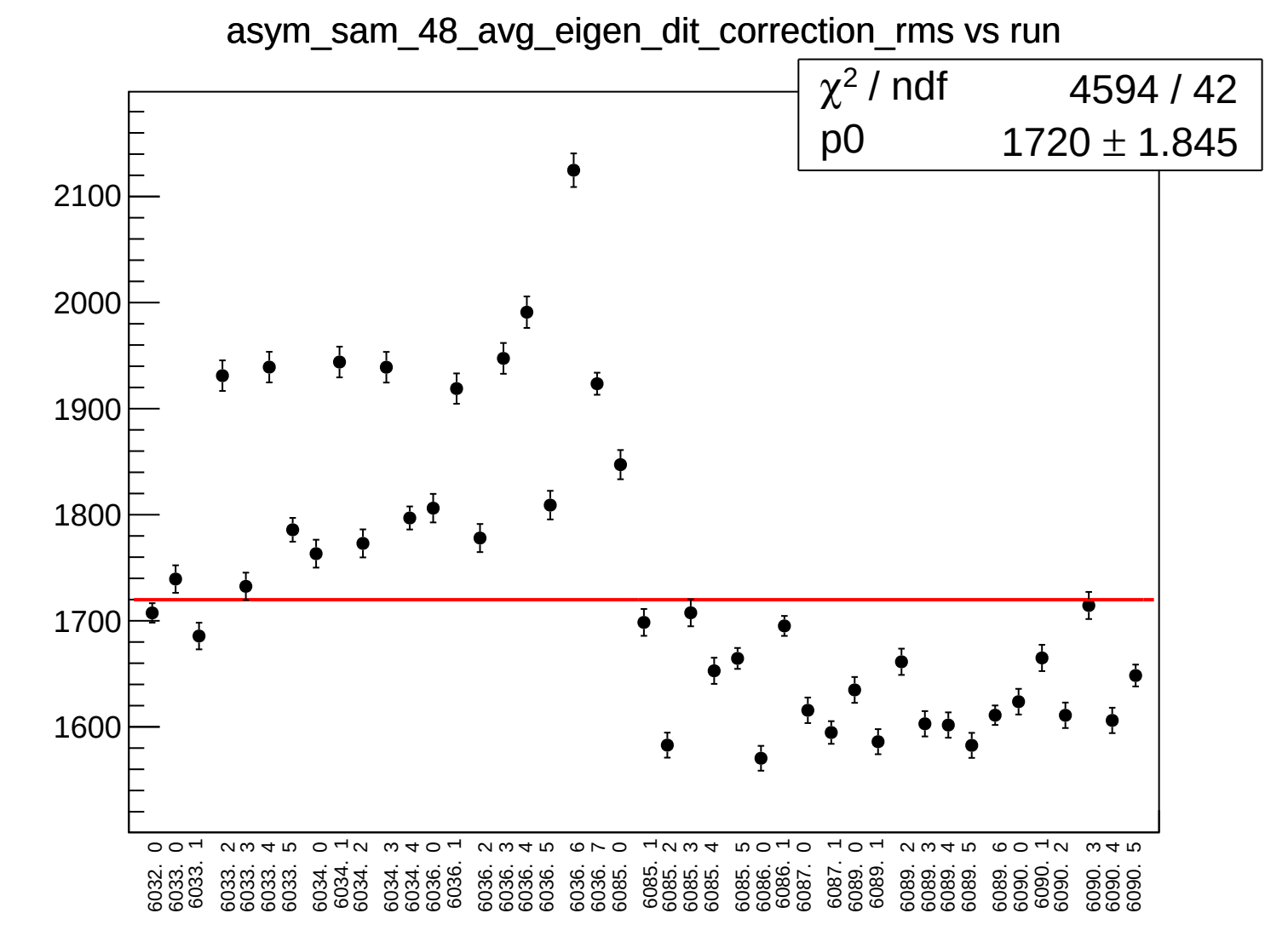

pull1D
Entries 43
Mean 0.01885
Std Dev 0.9256
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

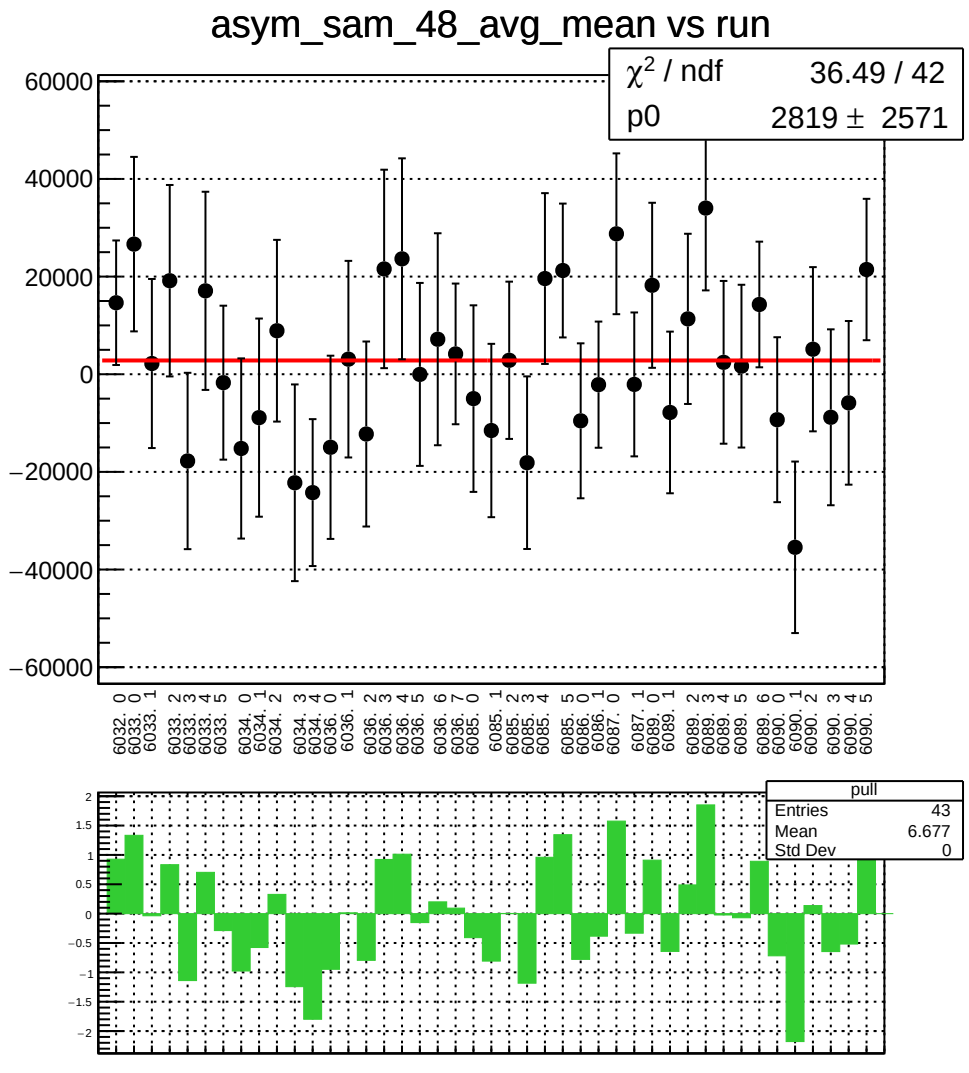

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4594 / 42
p0 1720 ± 1.845
2100
2000
1900
1800
1700
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

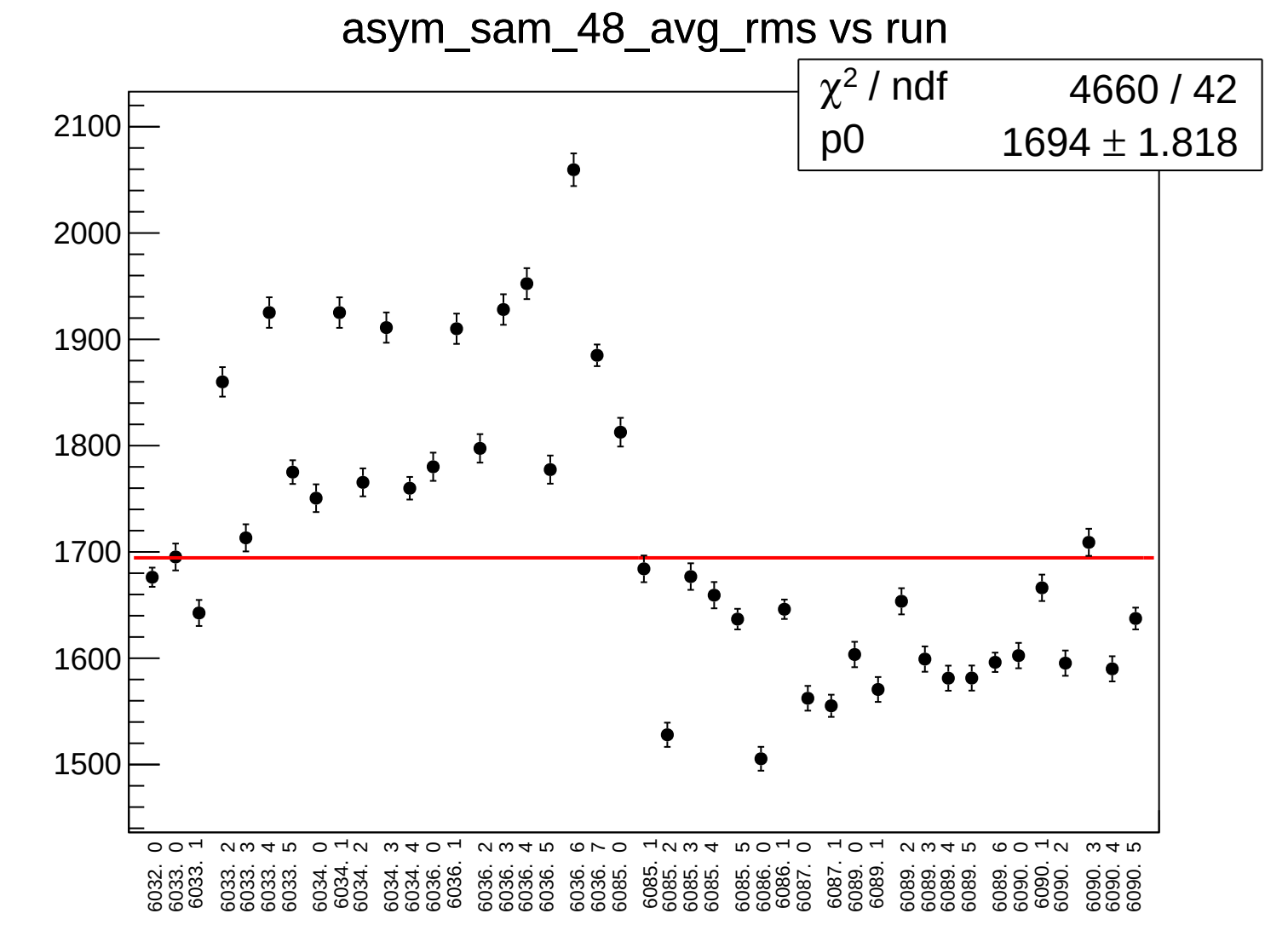

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 37.93 / 42
p0 165.6 ± 238
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1375
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001144
Std Dev 0.9392
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

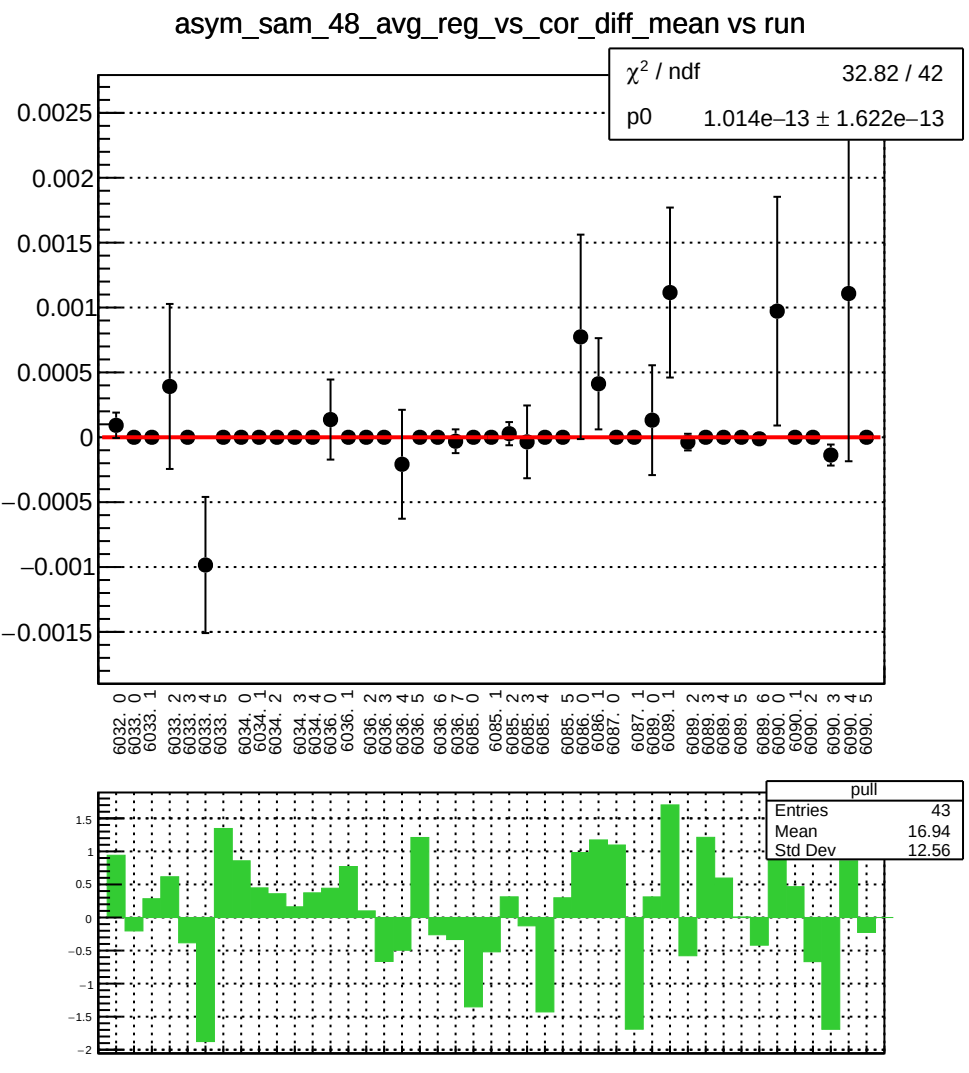

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.267e+04 / 42
p0 156.1 ± 0.1683
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

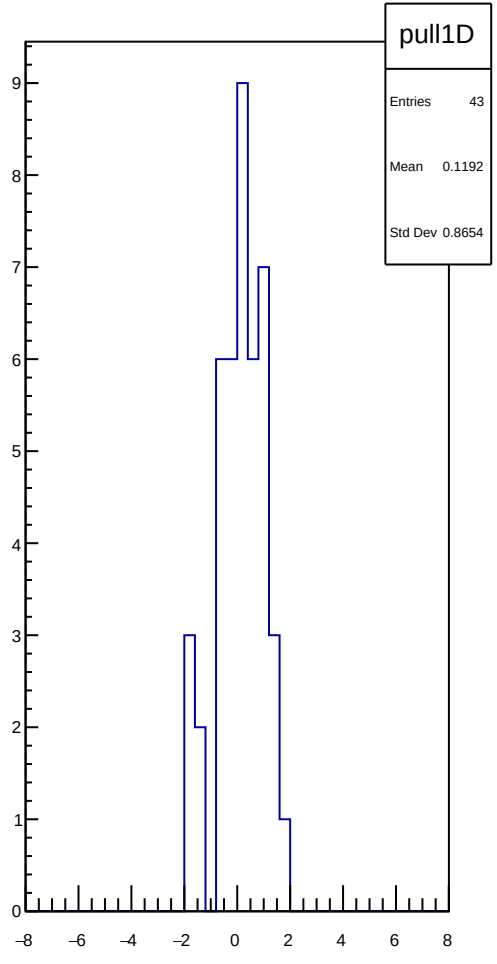

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.85 / 42
p0 −2631 ± 2610
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −2.847
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01885
Std Dev 0.9256
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

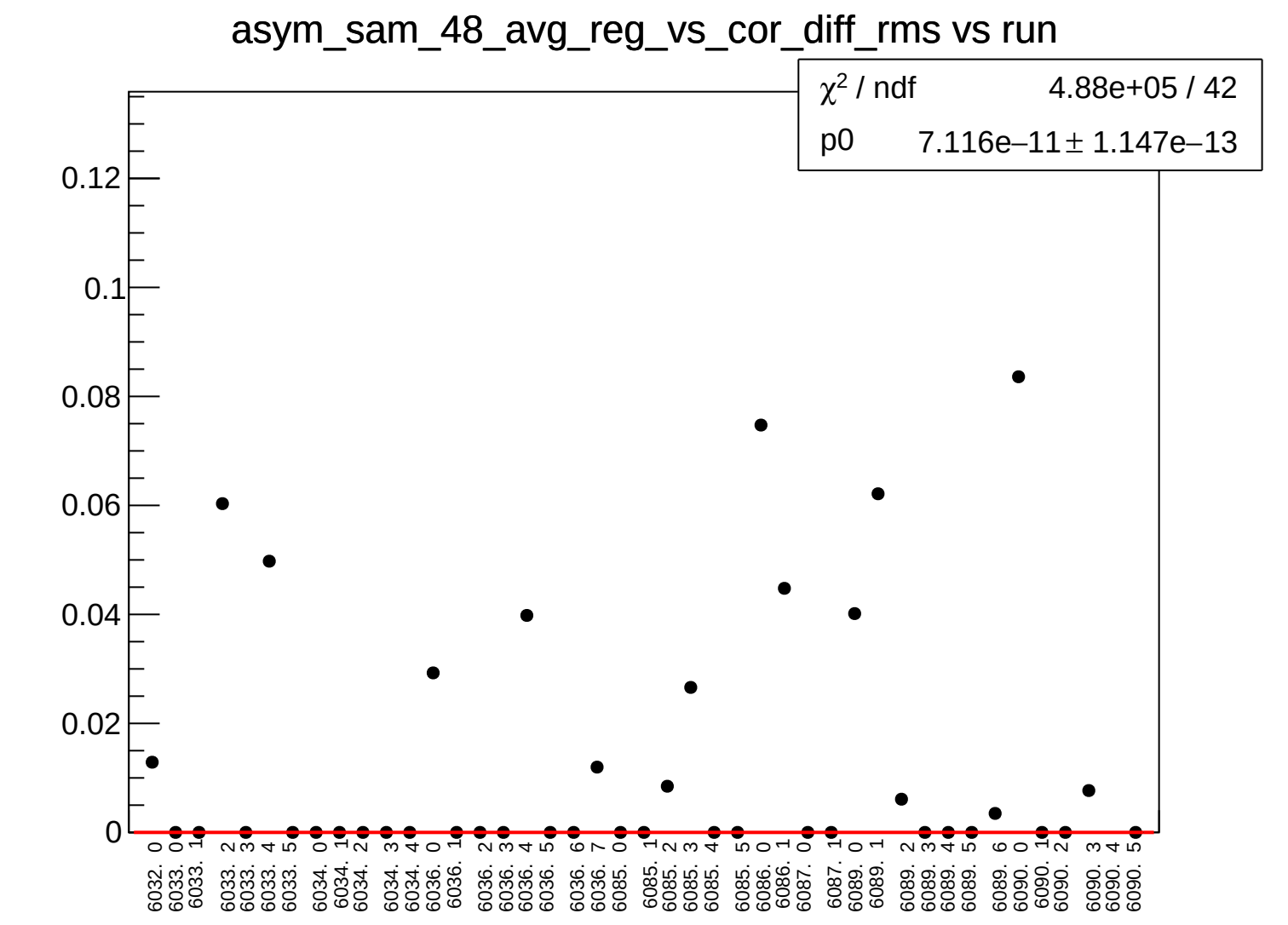

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4594 / 42
p0 1720 ± 1.845
2100
2000
1900
1800
1700
1600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

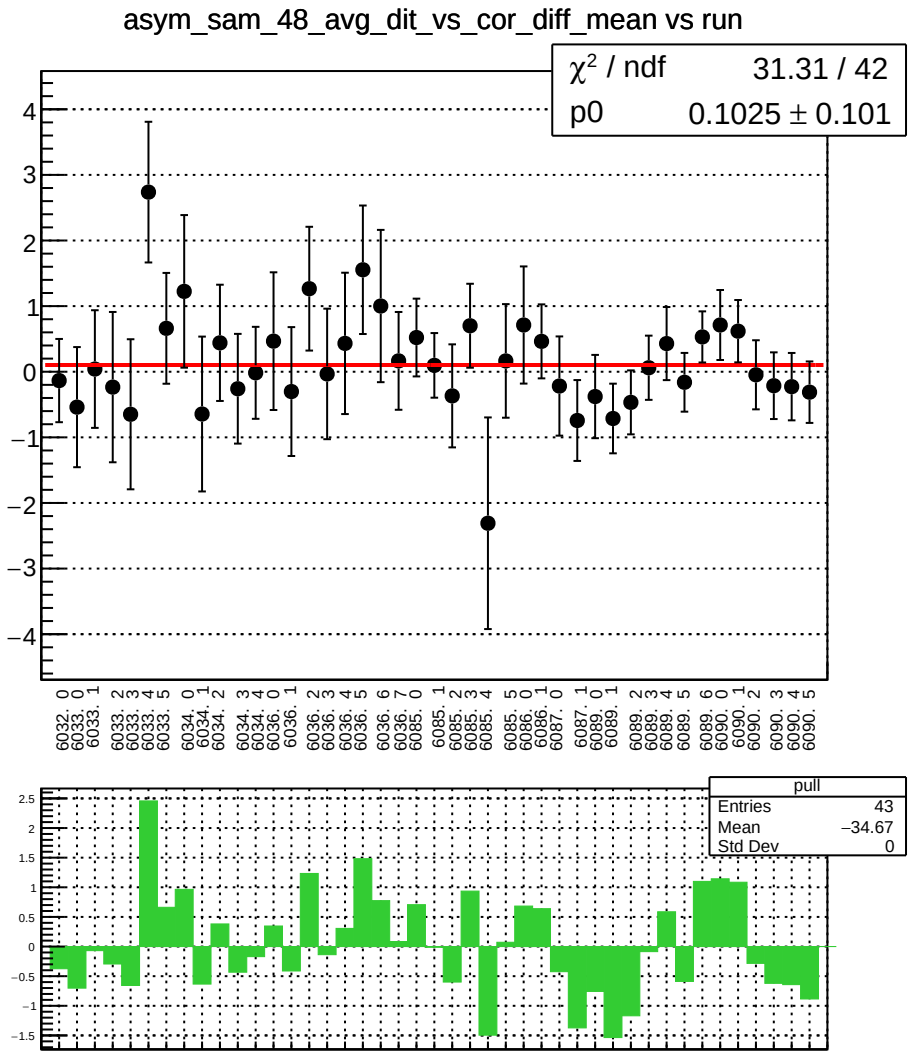

asym_sam_48_avg_mean vs run
χ² / ndf 36.49 / 42
p0 2819 ± 2571
60000
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.677
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01943
Std Dev 0.921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

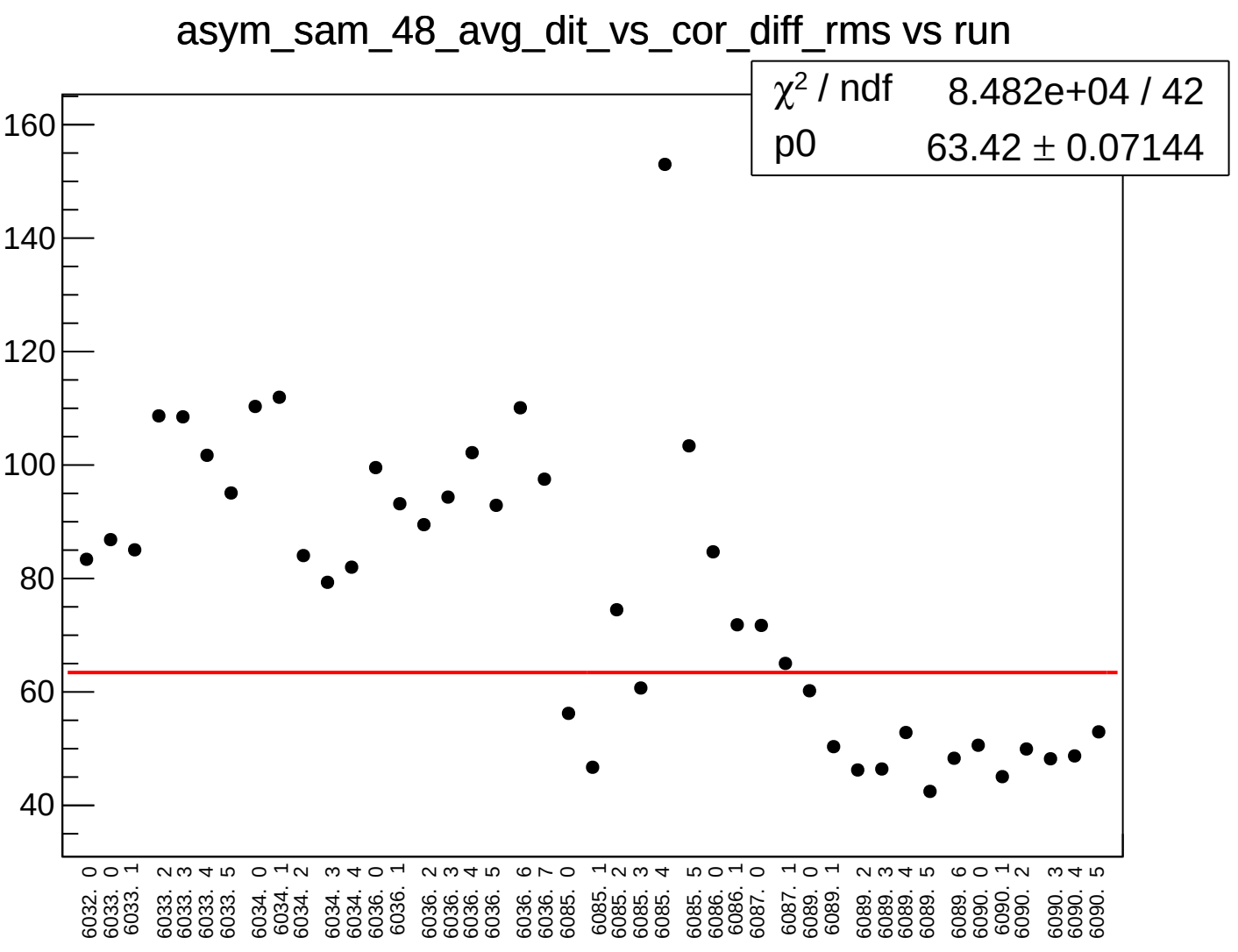

asym_sam_48_avg_rms vs run
χ² / ndf 4660 / 42
p0 1694 ± 1.818
2100
2000
1900
1800
1700
1600
1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

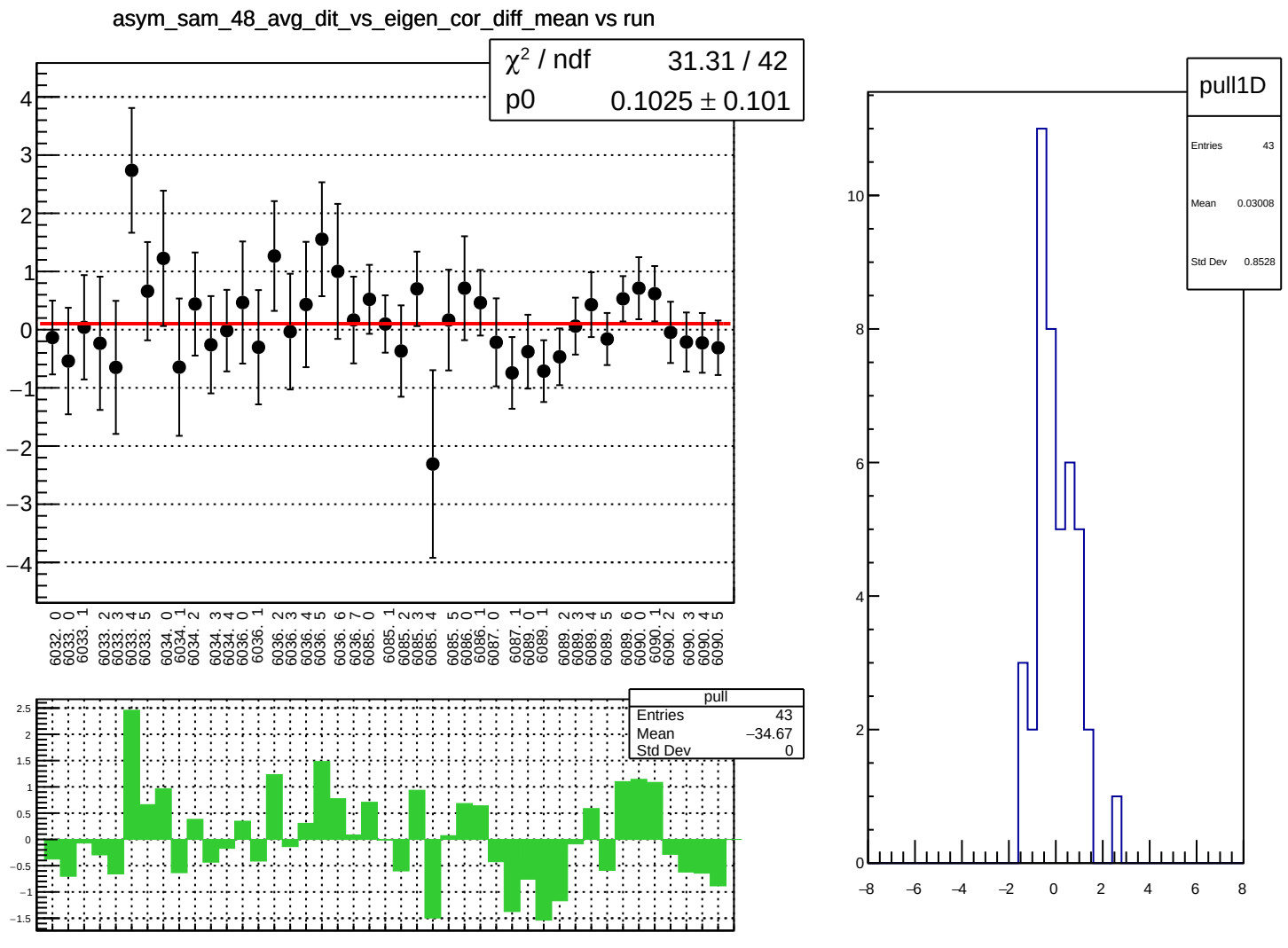

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 32.82 / 42
p0 1.014e−13 ± 1.622e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.94
Std Dev 12.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2

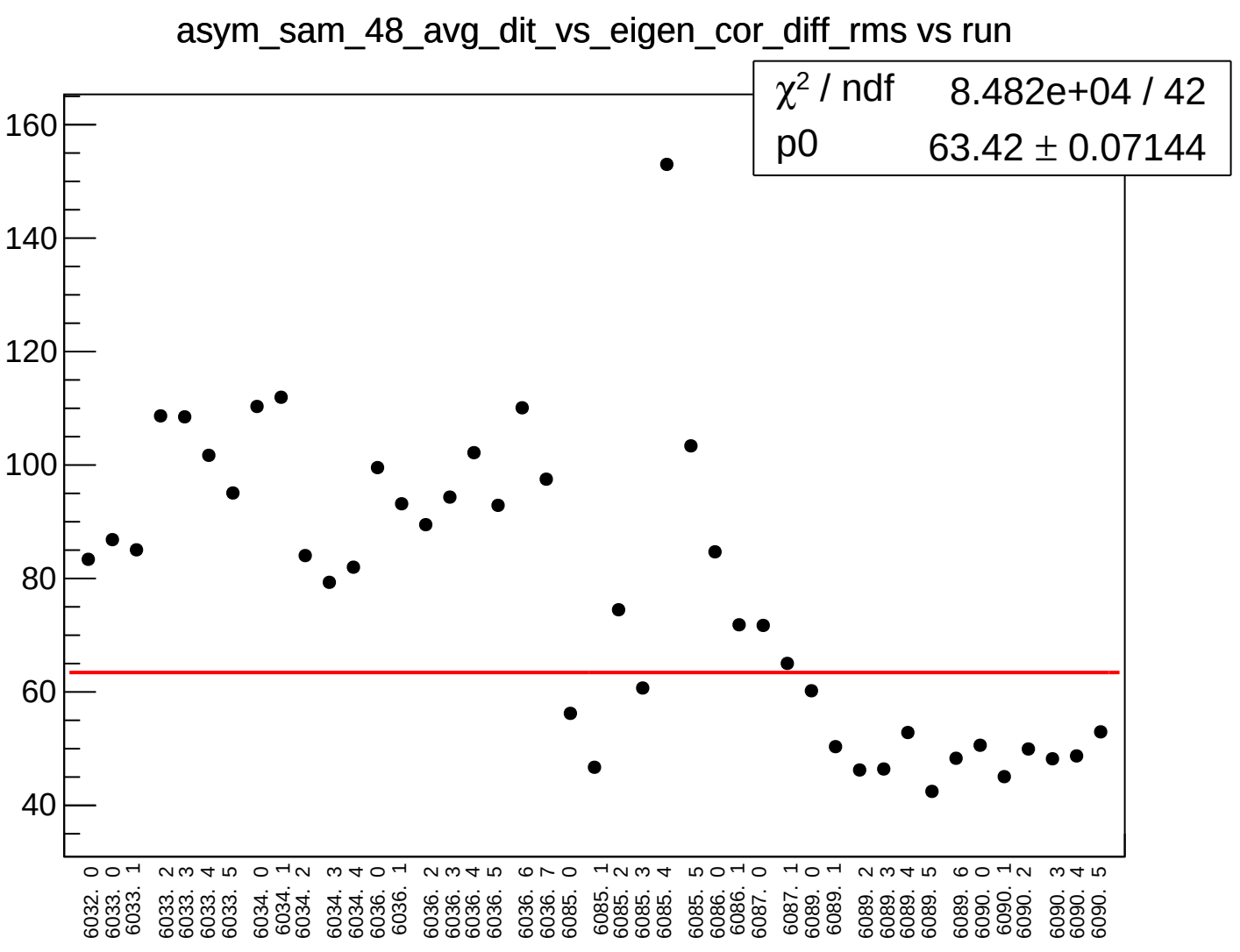

pull1D
Entries 43
Mean 0.1192
Std Dev 0.8654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

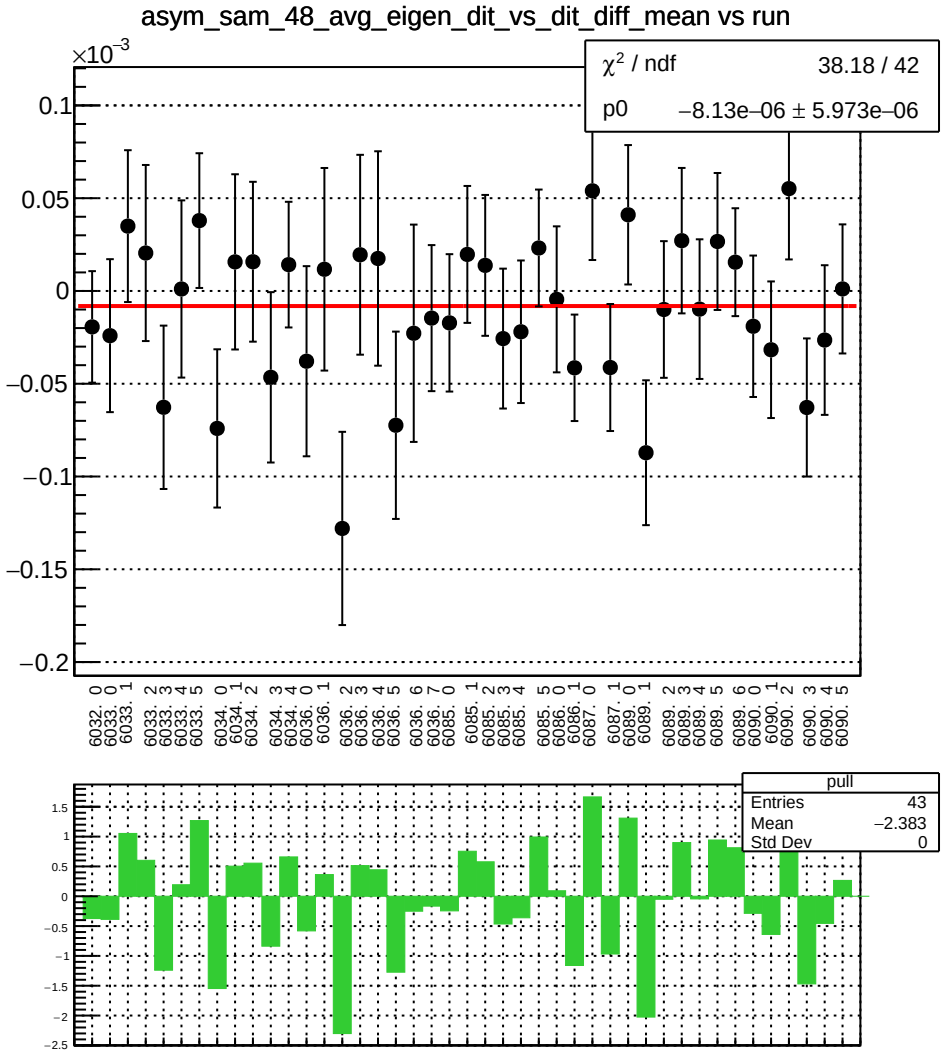

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.88e+05 / 42
p0 7.116e−11 ± 1.147e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

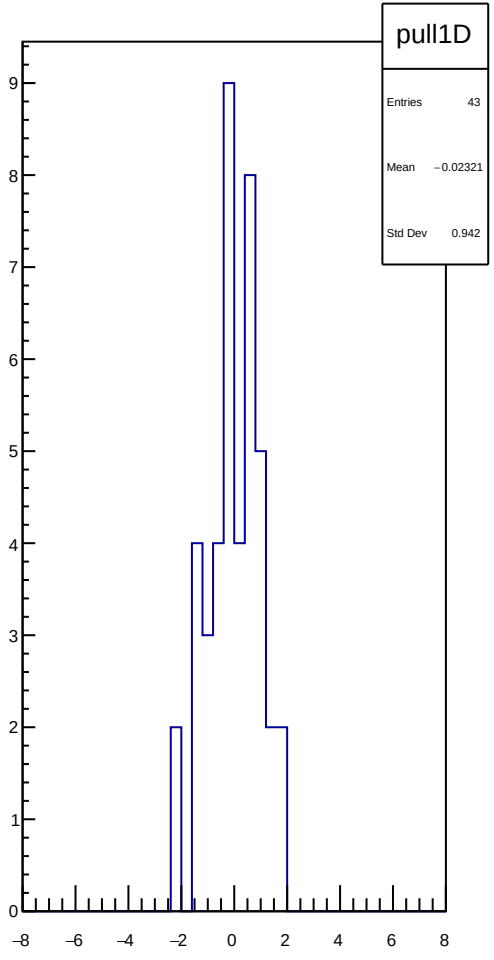

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.31 / 42
p0 0.1025 ± 0.101
pull
Entries 43
Mean −34.67
Std Dev 0
pull1D
Entries 43
Mean 0.03008
Std Dev 0.8528

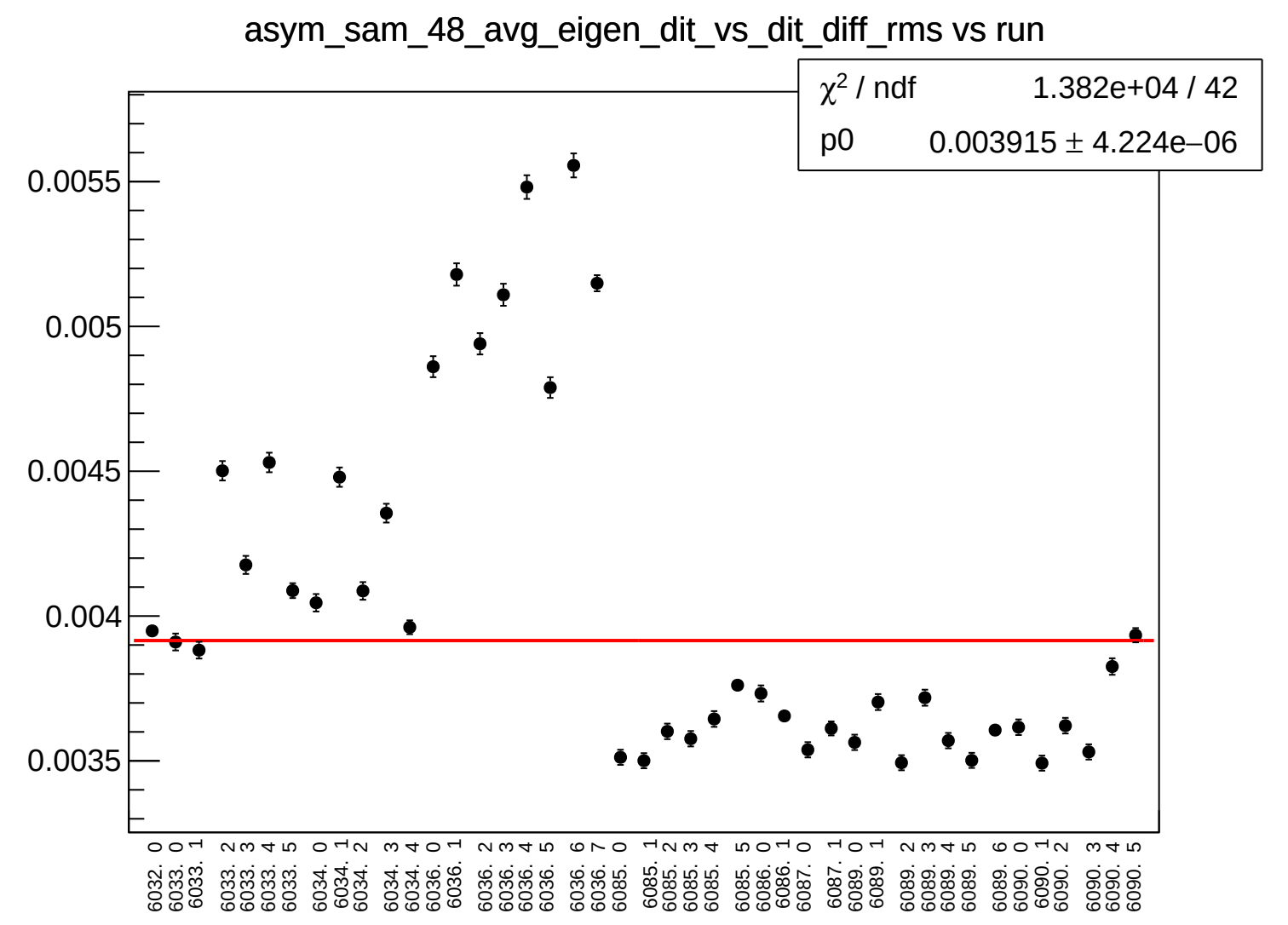

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.482e+04 / 42
p0 63.42 ± 0.07144
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

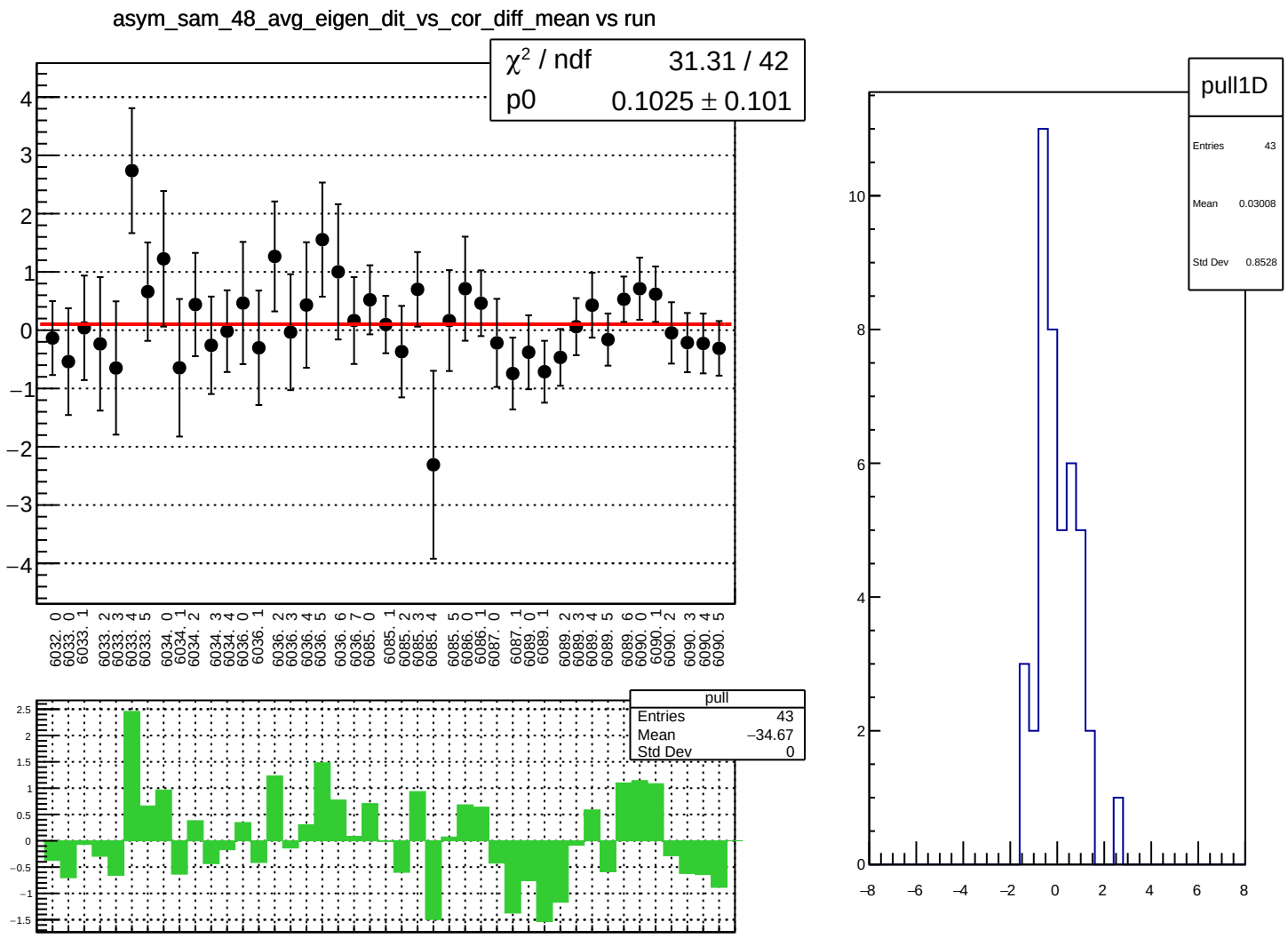

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.31 / 42
p0 0.1025 ± 0.101
pull
Entries 43
Mean −34.67
Std Dev 0
pull1D
Entries 43
Mean 0.03008
Std Dev 0.8528

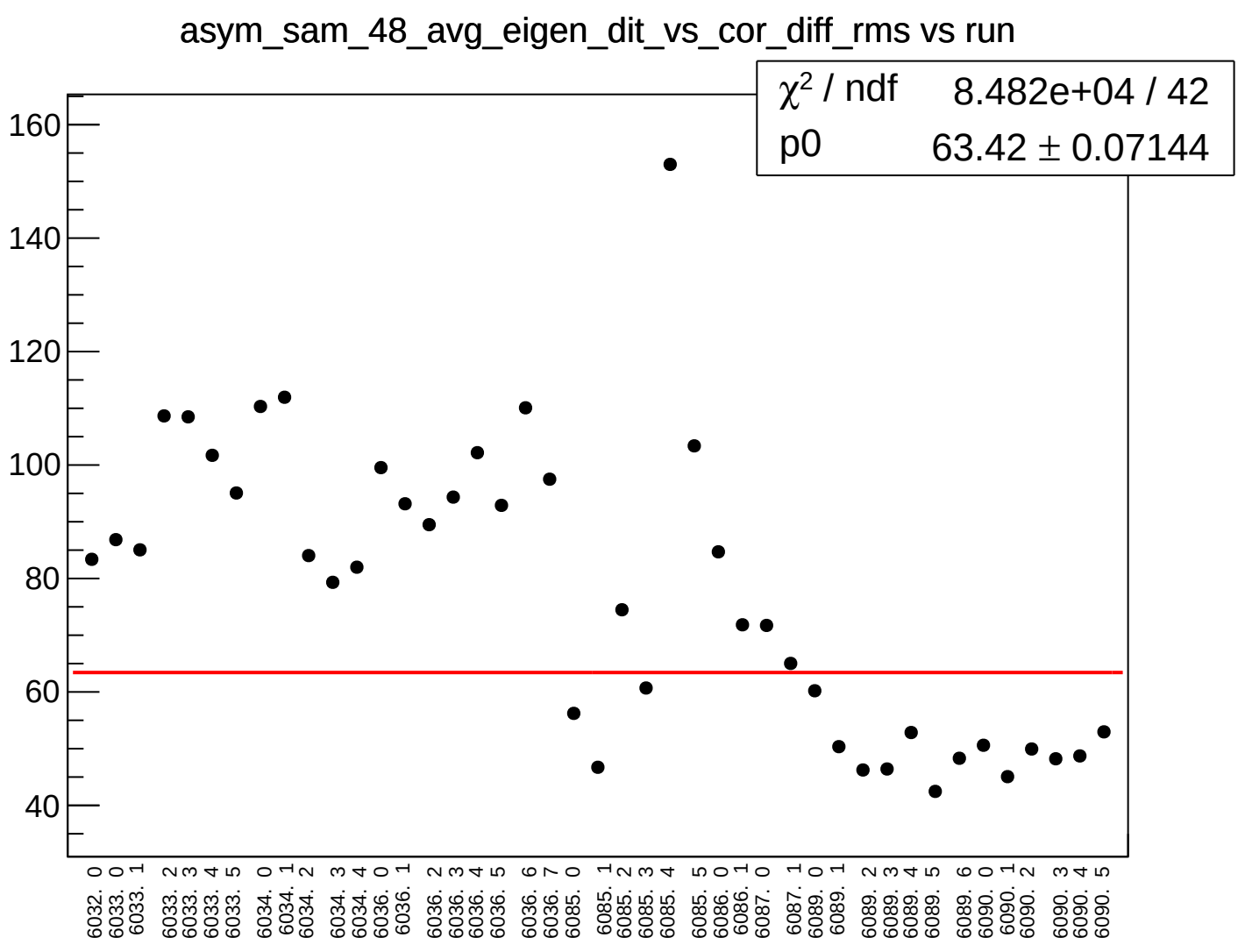

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.482e+04 / 42
p0 63.42 ± 0.07144
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

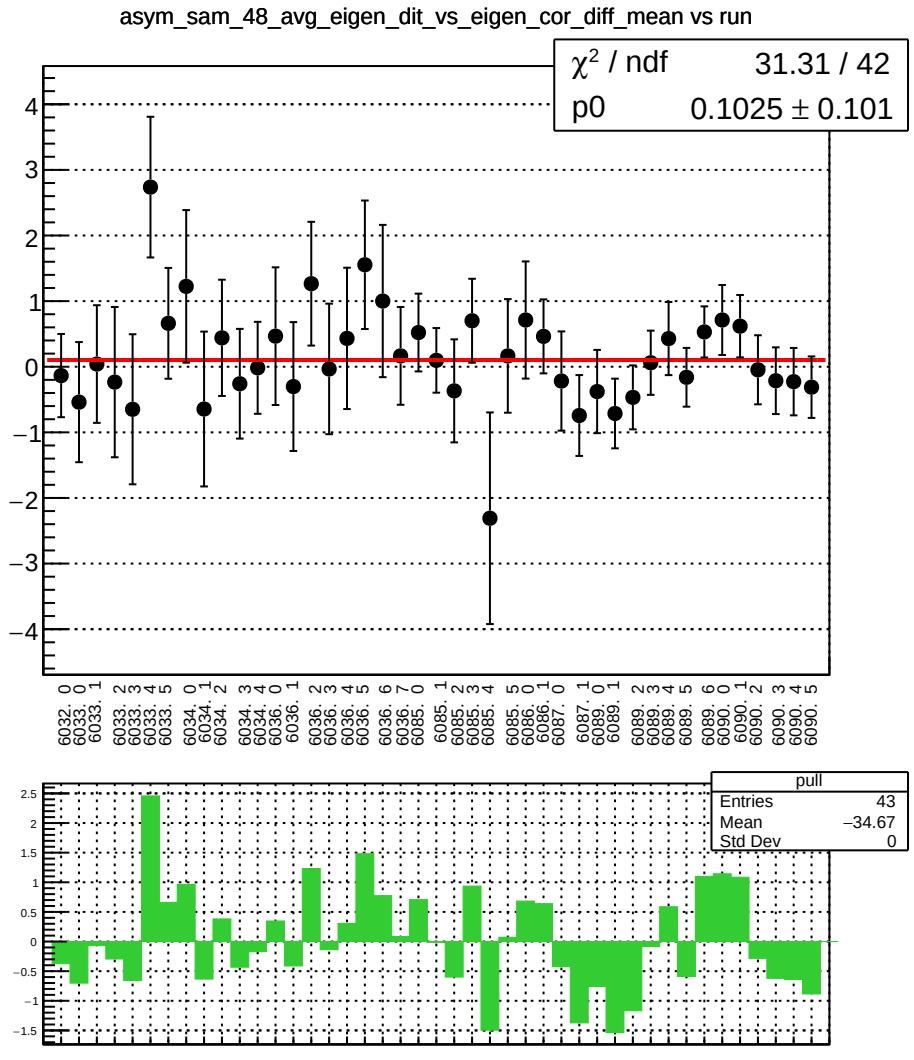

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 38.18 / 42
p0 −8.13e−06 ± 5.973e−06
pull
Entries 43
Mean −2.383
Std Dev 0

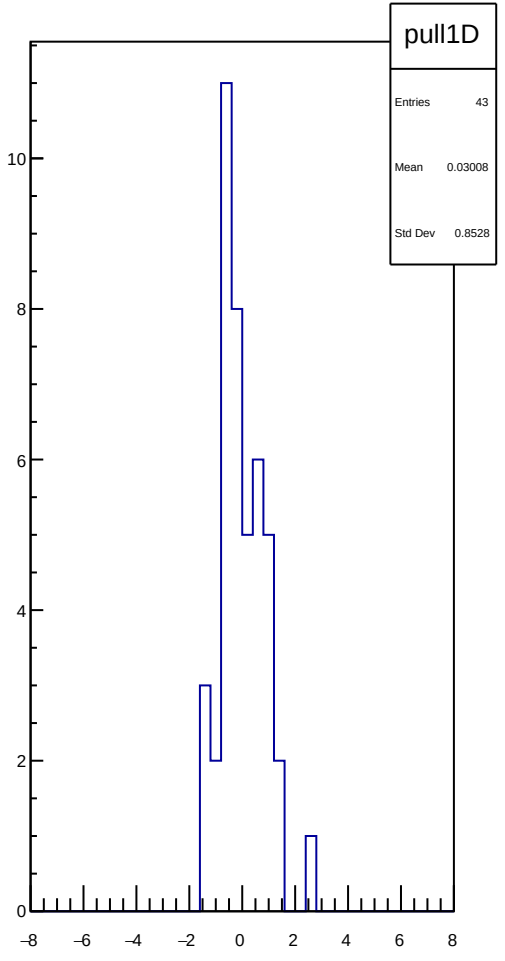

pull1D
Entries 43
Mean −0.02321
Std Dev 0.942

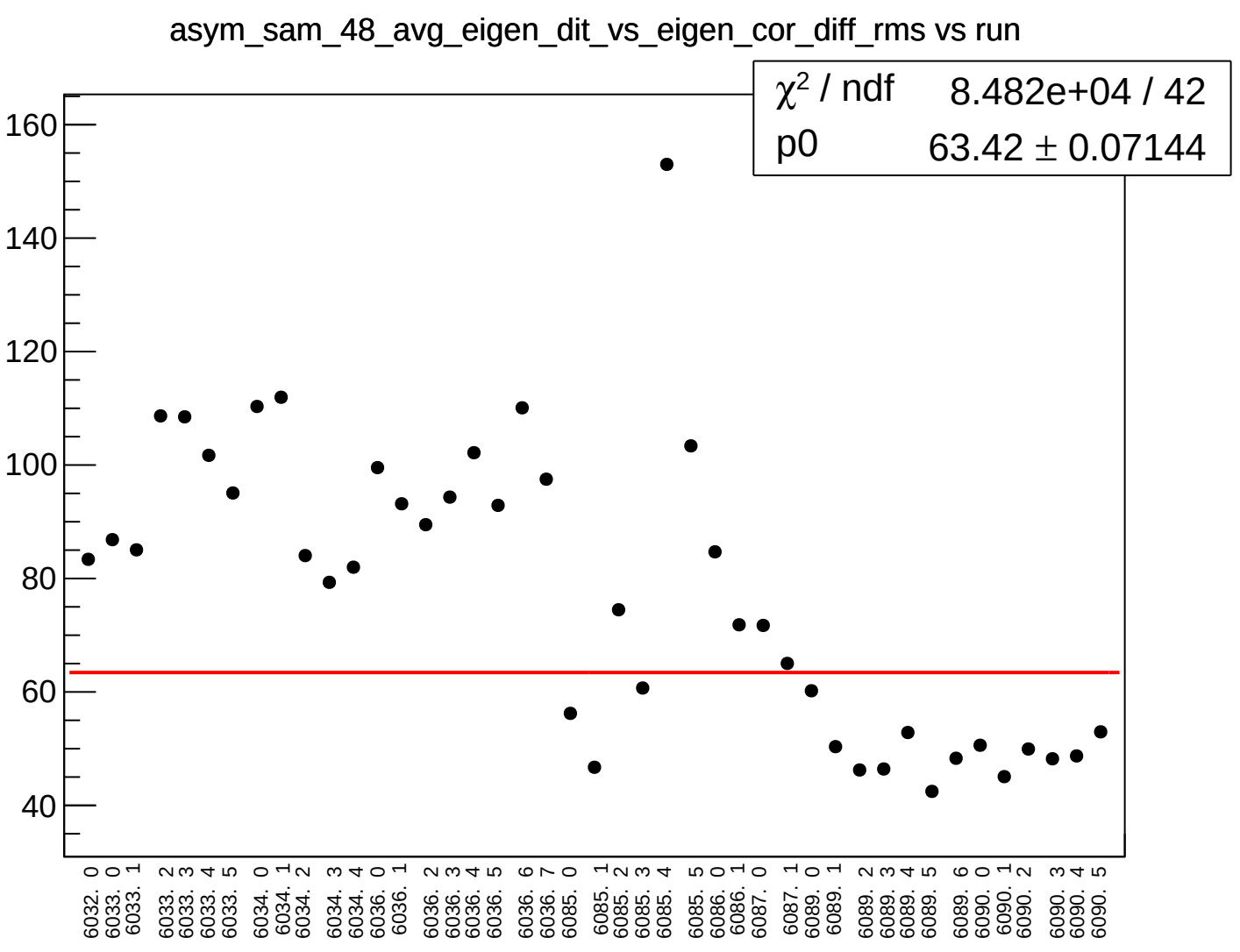

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.382e+04 / 42
p0 0.003915 ± 4.224e−06
0.0055
0.005
0.0045
0.004
0.0035
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

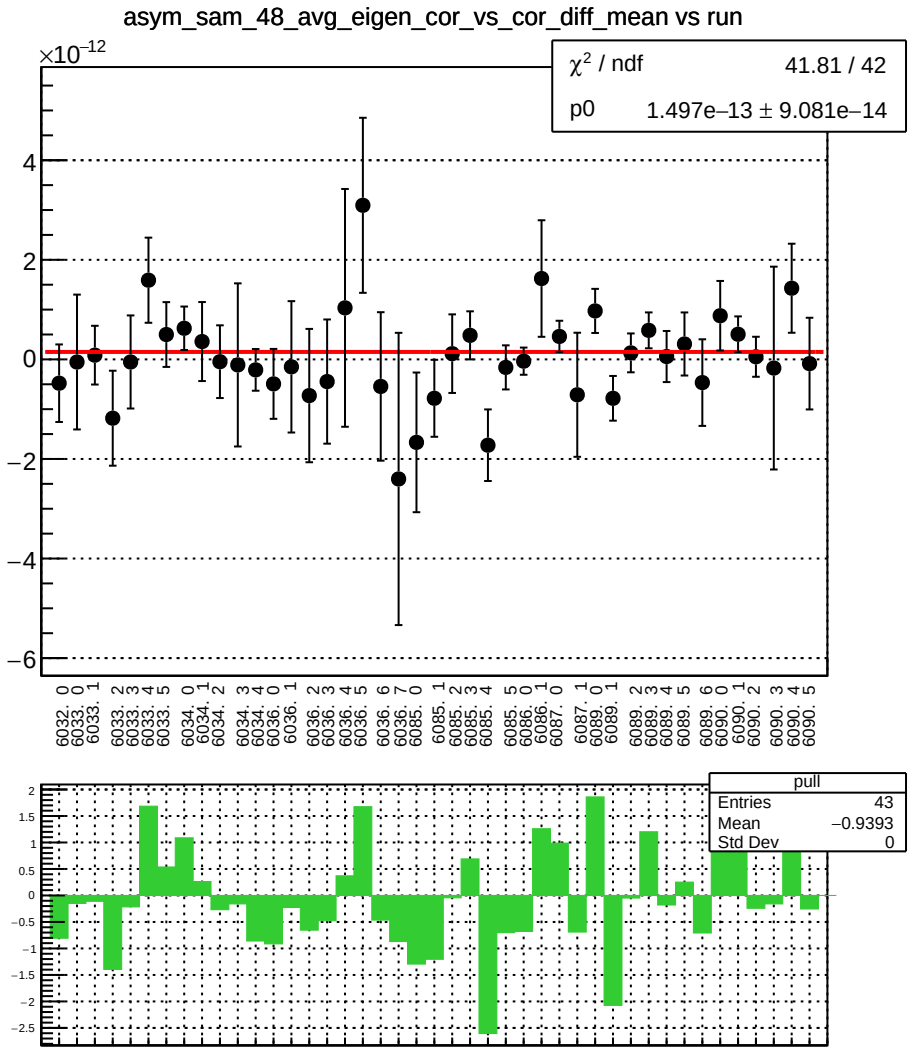

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.31 / 42
p0 0.1025 ± 0.101
pull
Entries 43
Mean −34.67
Std Dev 0
pull1D
Entries 43
Mean 0.03008
Std Dev 0.8528

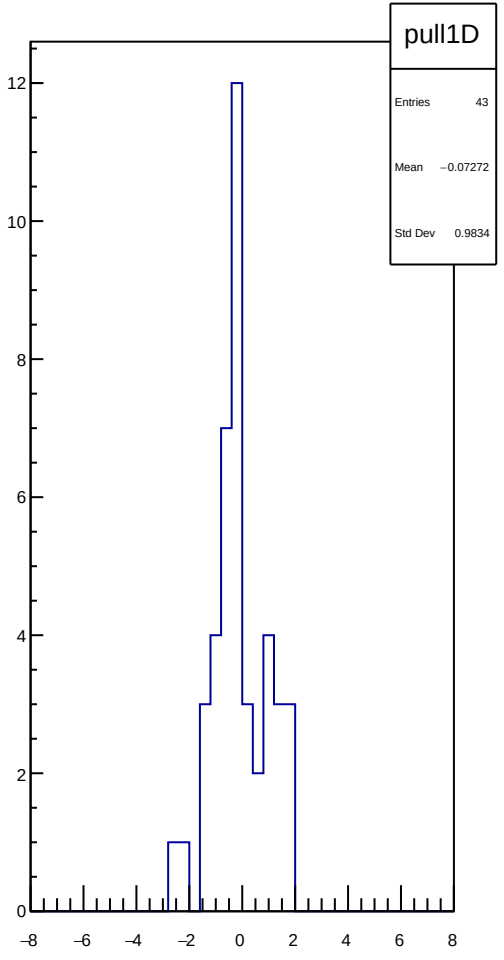

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.482e+04 / 42
p0 63.42 ± 0.07144
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

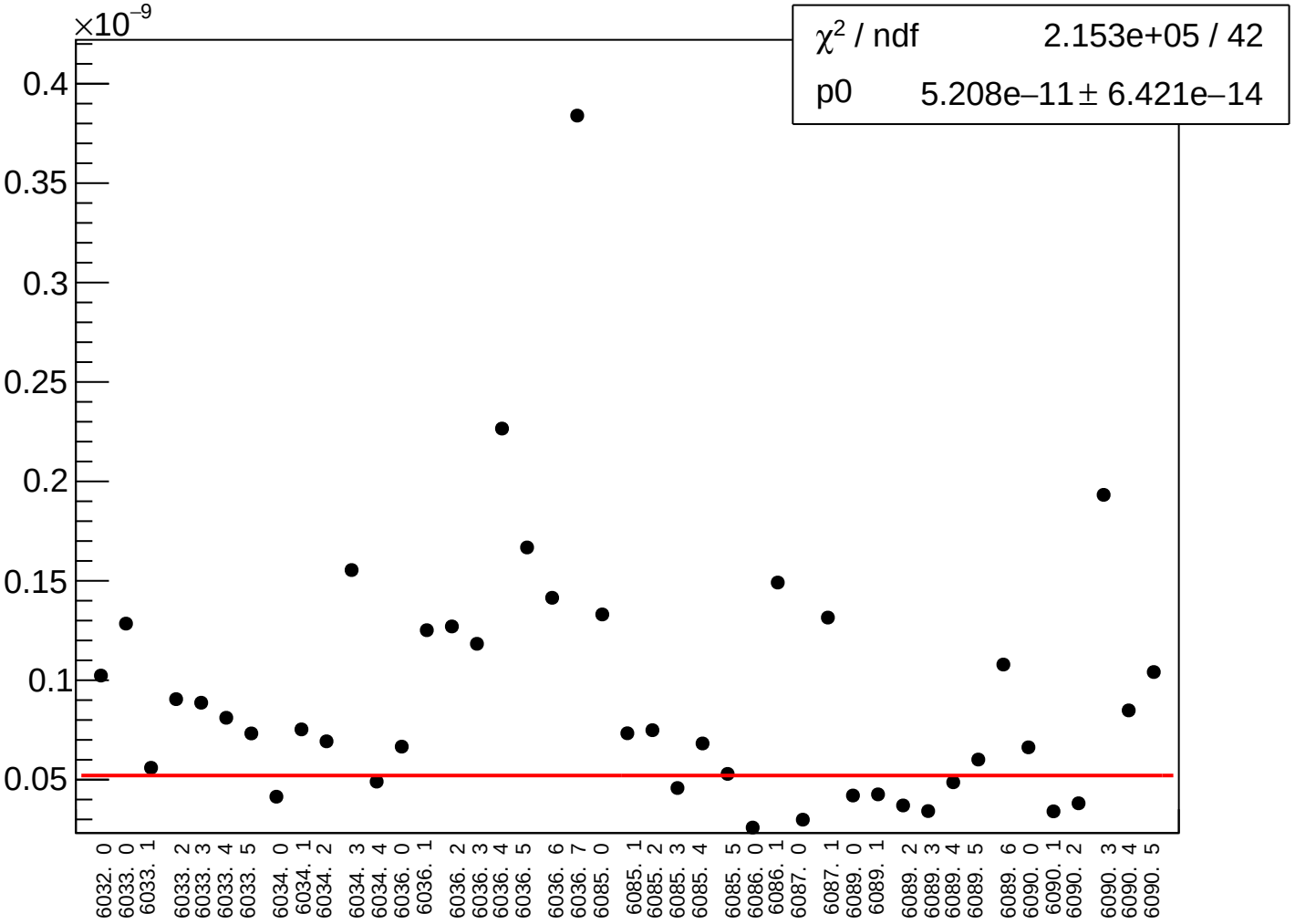

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.31 / 42
p0 0.1025 ± 0.101
pull
Entries 43
Mean −34.67
Std Dev 0

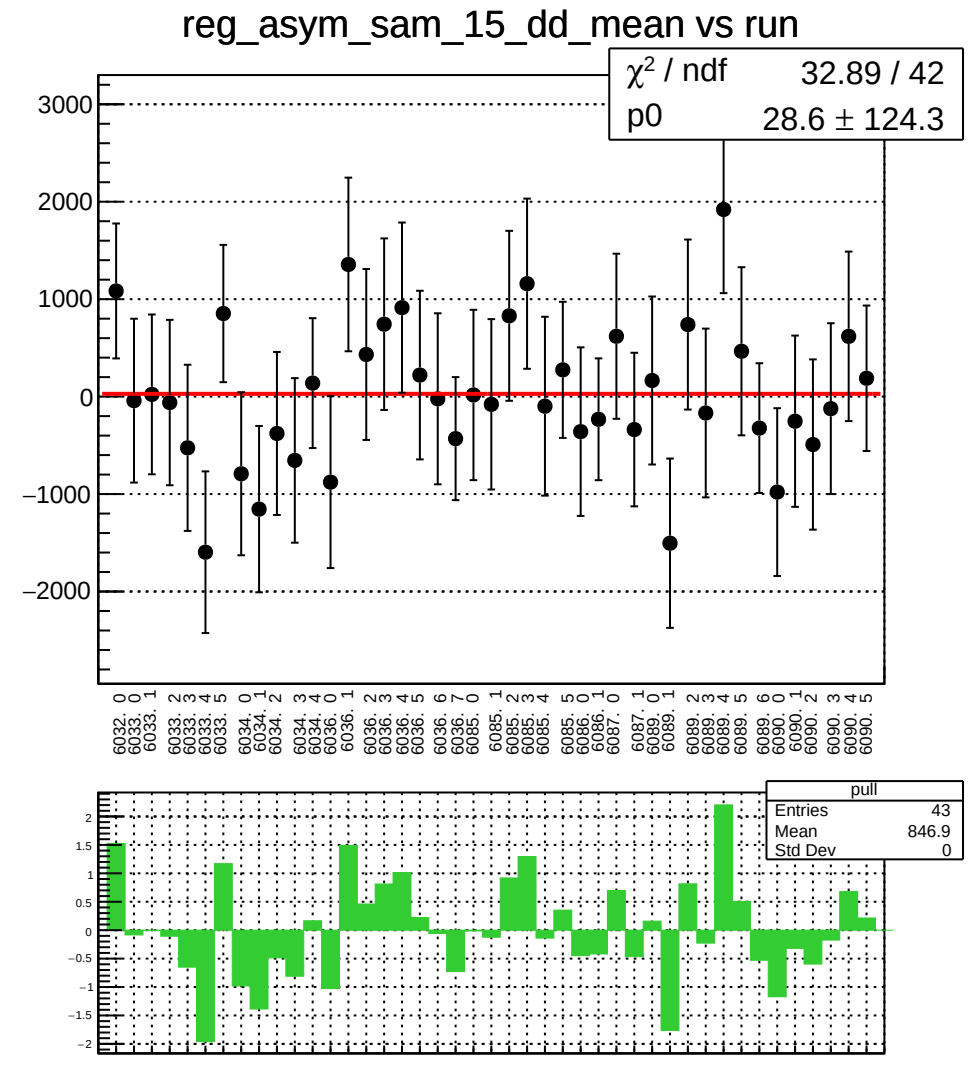

pull1D
Entries 43
Mean 0.03008
Std Dev 0.8528

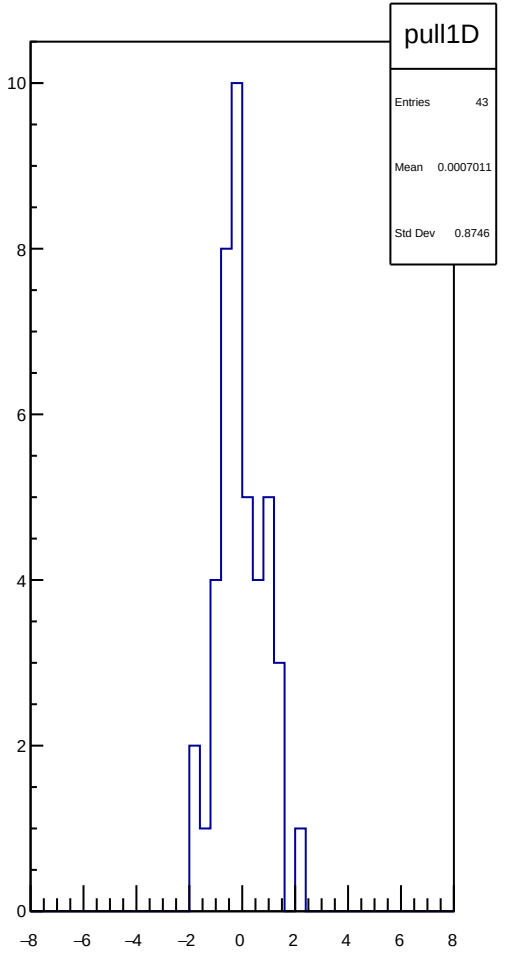

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.482e+04 / 42
p0 63.42 ± 0.07144
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

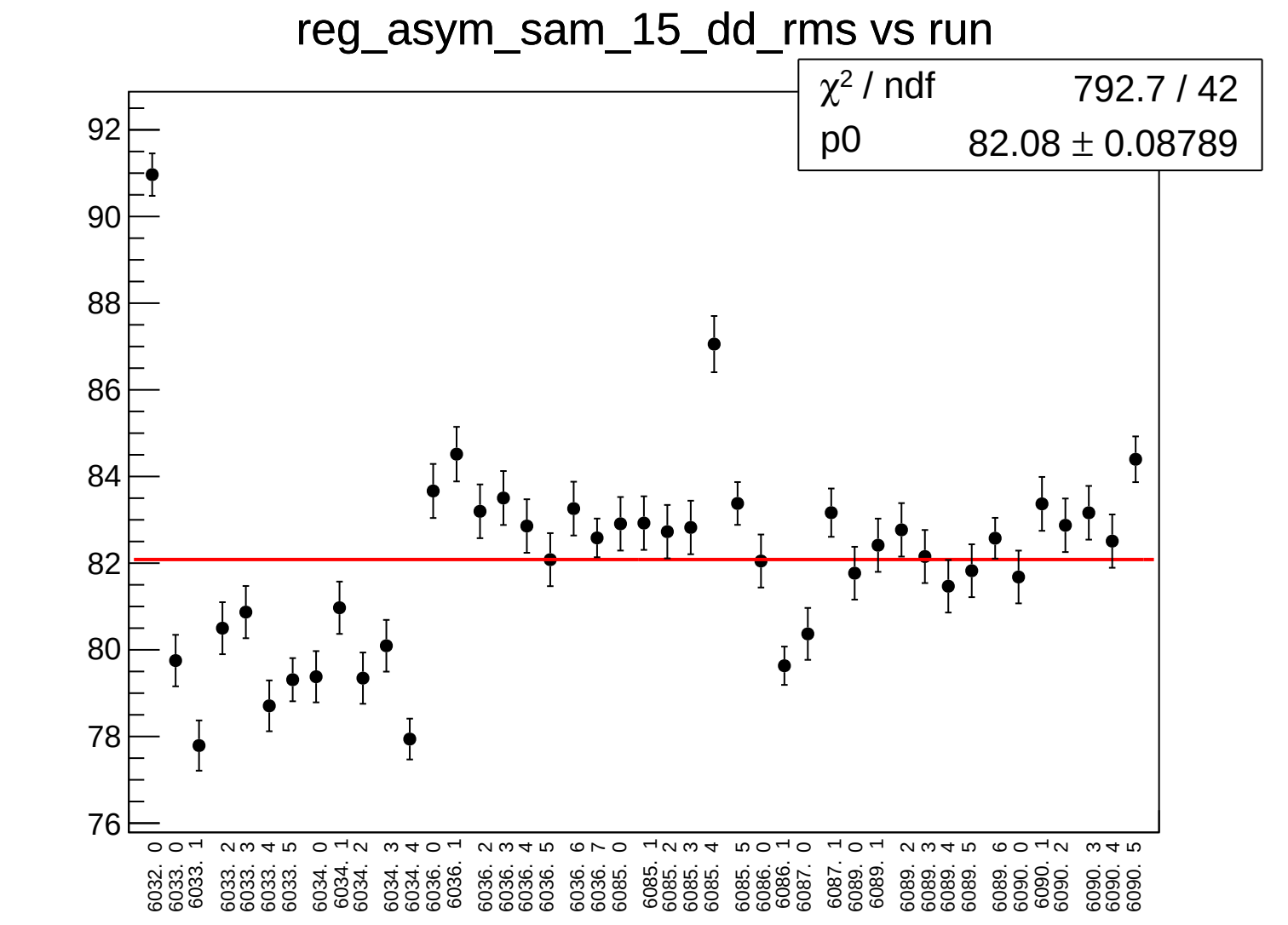

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.81 / 42
p0 1.497e−13 ± 9.081e−14
pull
Entries 43
Mean −0.9393
Std Dev 0

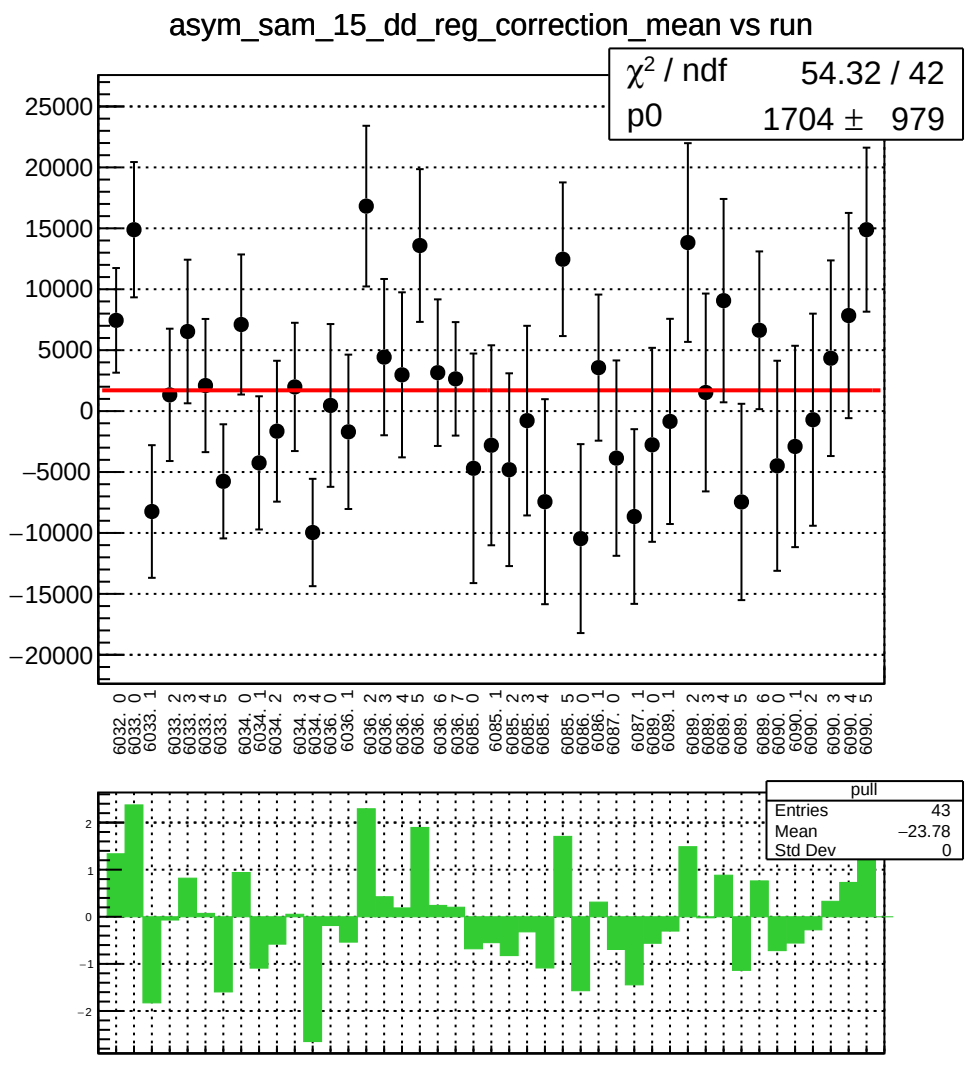

pull1D
Entries 43
Mean −0.07272
Std Dev 0.9834

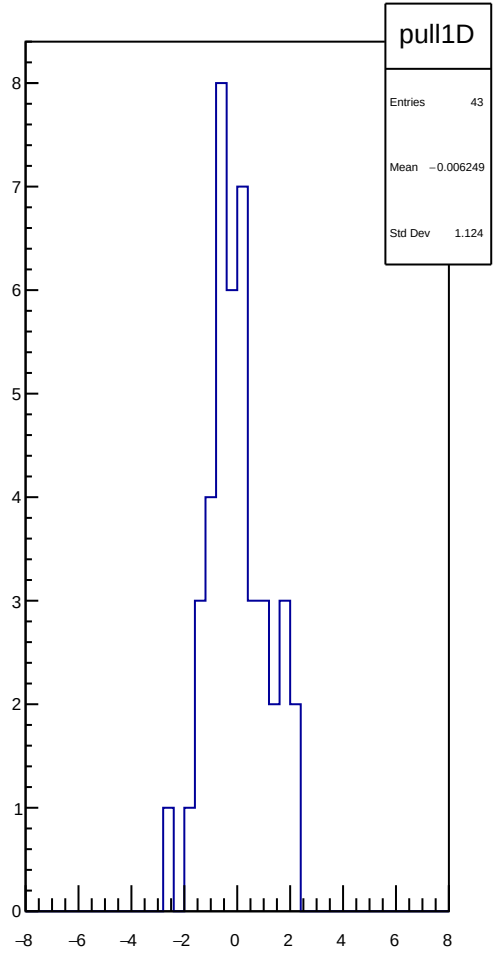

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.153e+05 / 42
p0 5.208e−11 ± 6.421e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

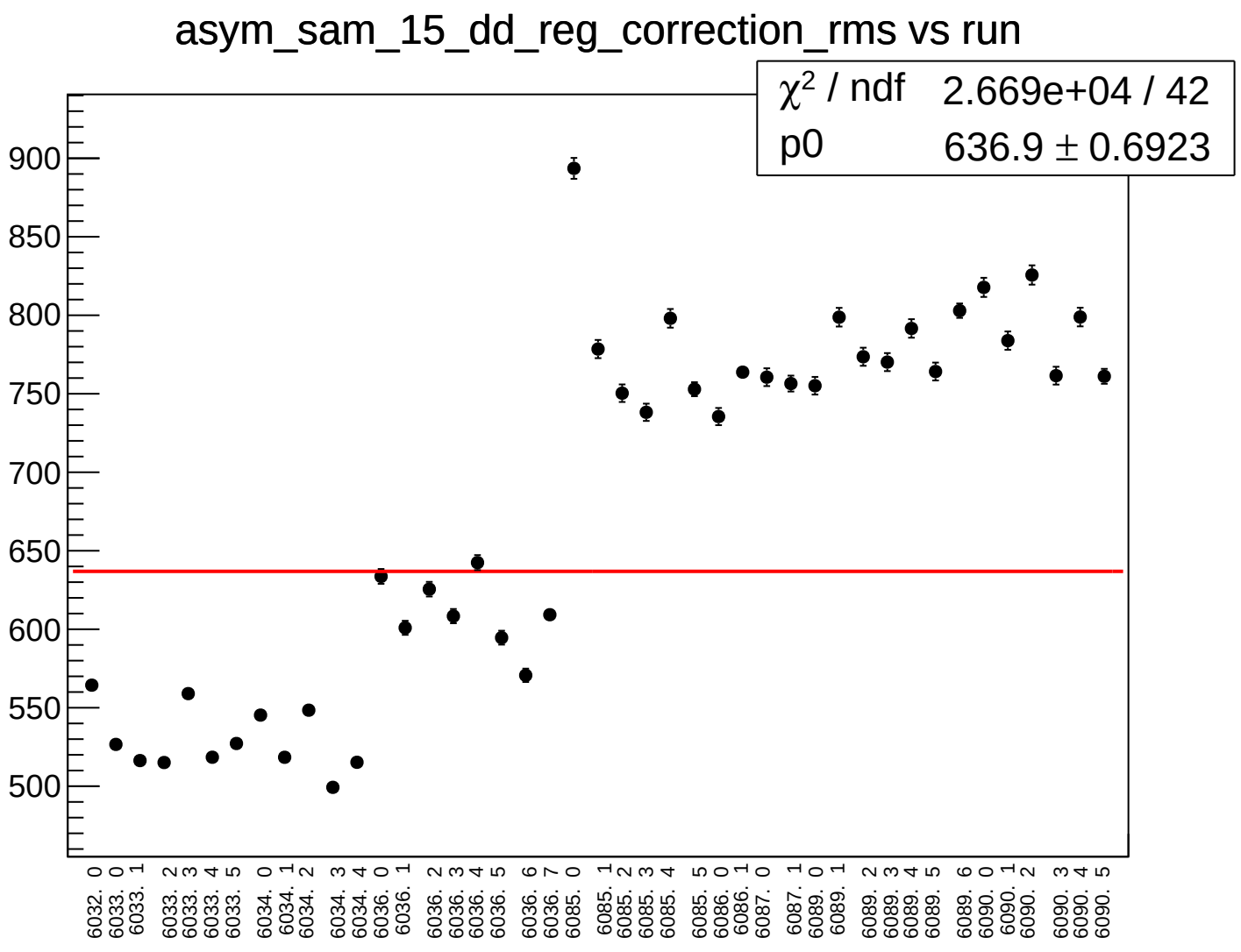

reg_asym_sam_15_dd_mean vs run
χ² / ndf 32.89 / 42
p0 28.6 ± 124.3
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 846.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

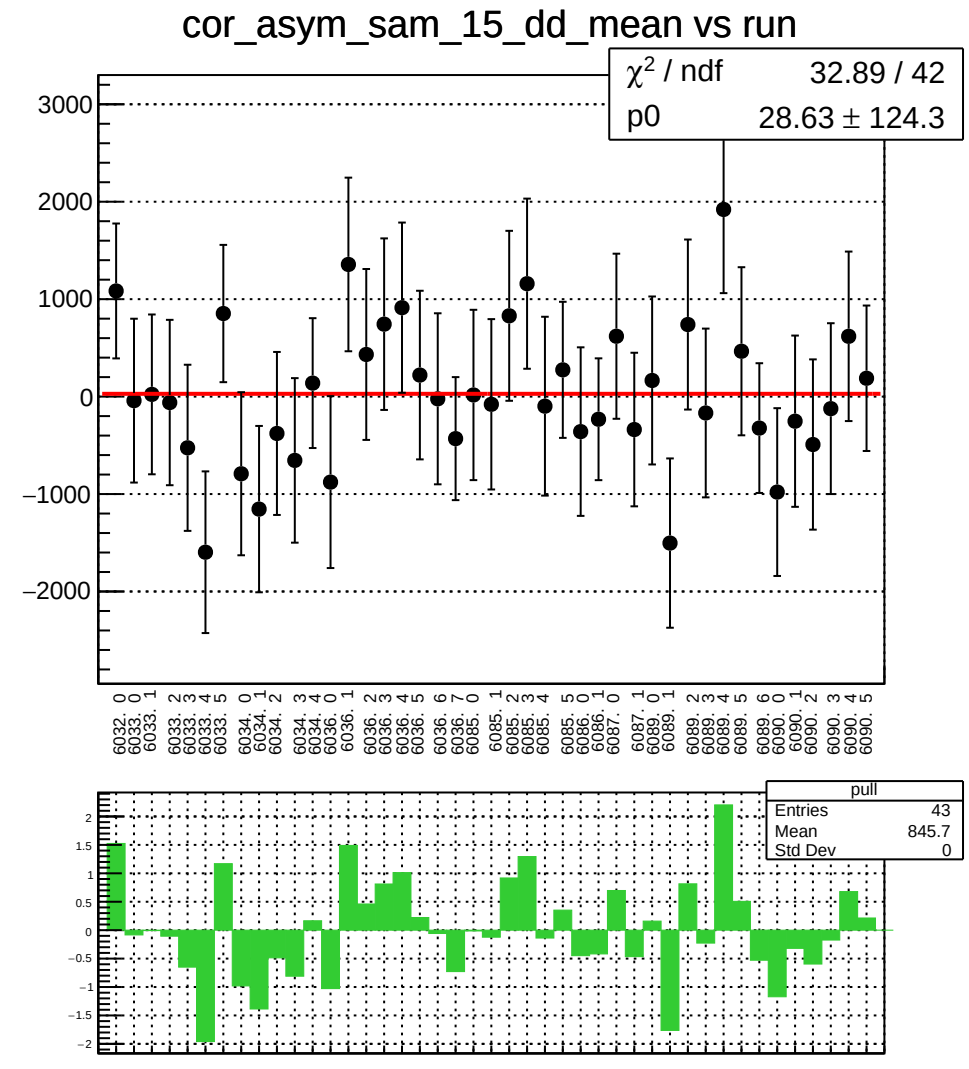

pull1D
Entries 43
Mean 0.0007011
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

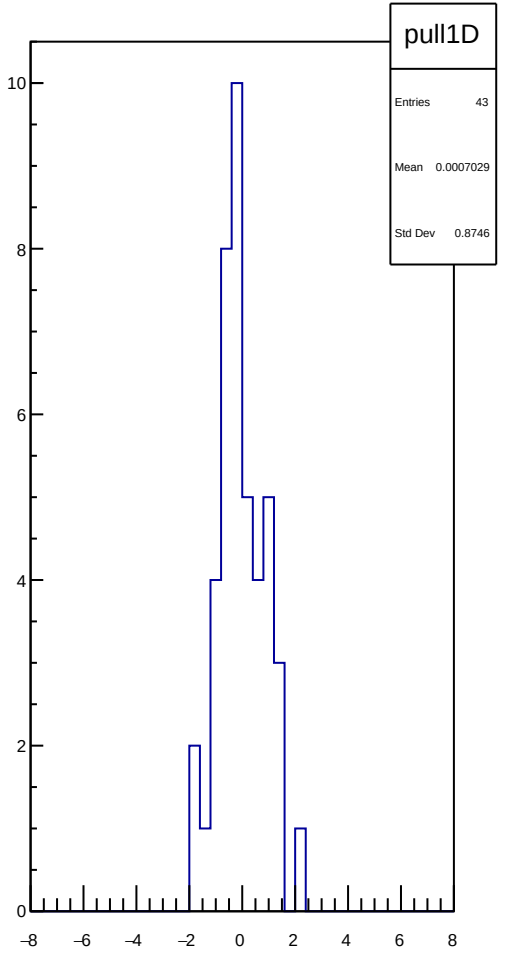

reg_asym_sam_15_dd_rms vs run
χ² / ndf 792.7 / 42
p0 82.08 ± 0.08789
92
90
88
86
84
82
80
78
76
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

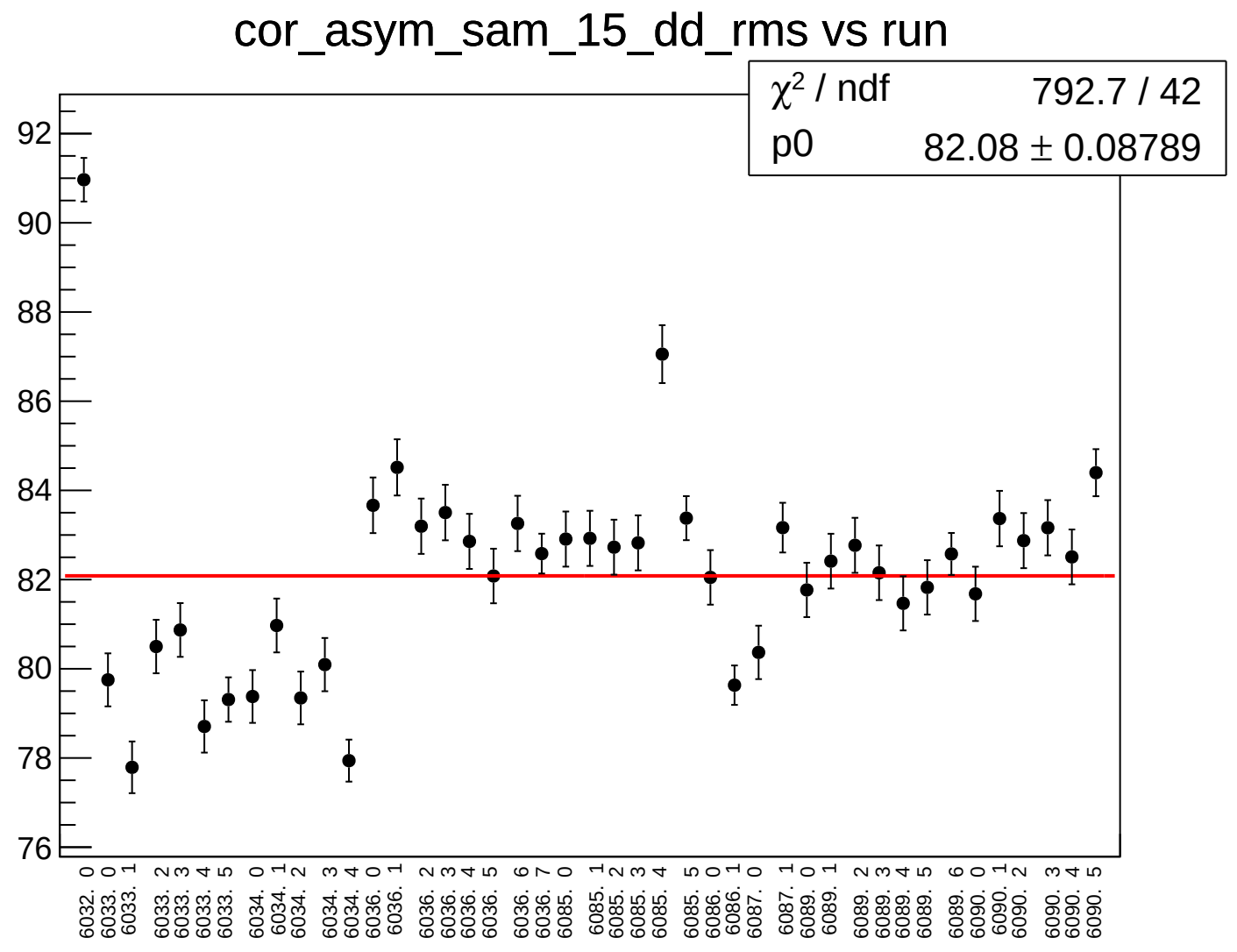

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 54.32 / 42
p0 1704 ± 979
pull
Entries 43
Mean −23.78
Std Dev 0

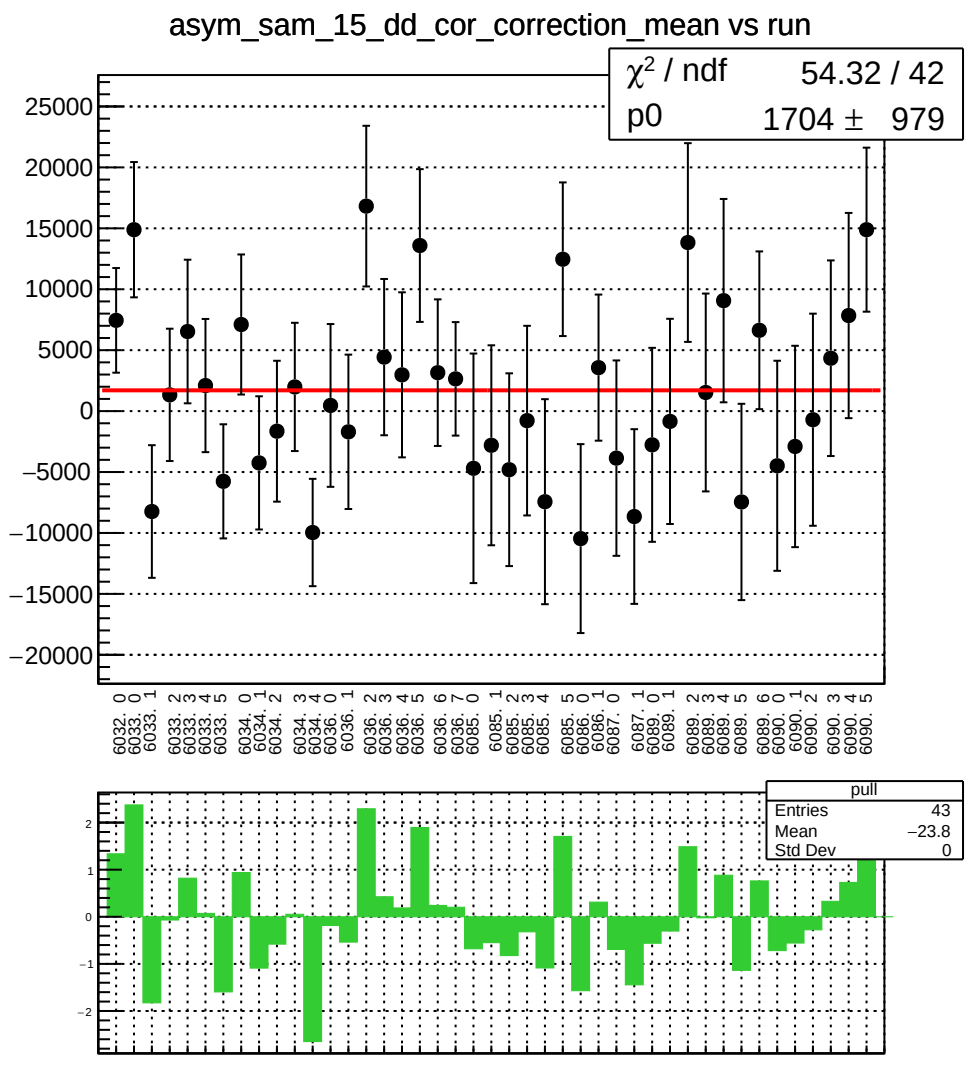

pull1D
Entries 43
Mean −0.006249
Std Dev 1.124

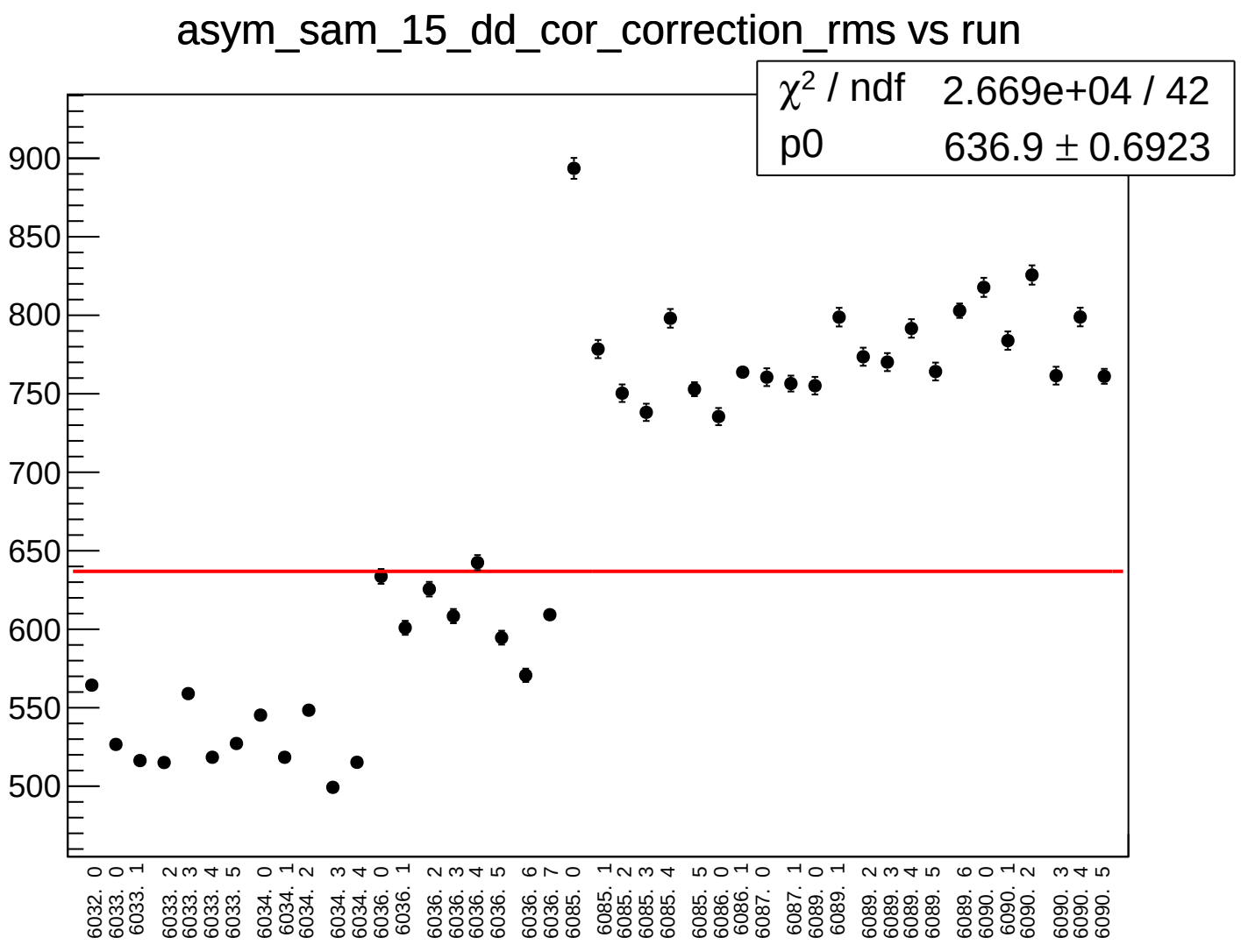

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.669e+04 / 42
p0 636.9 ± 0.6923
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

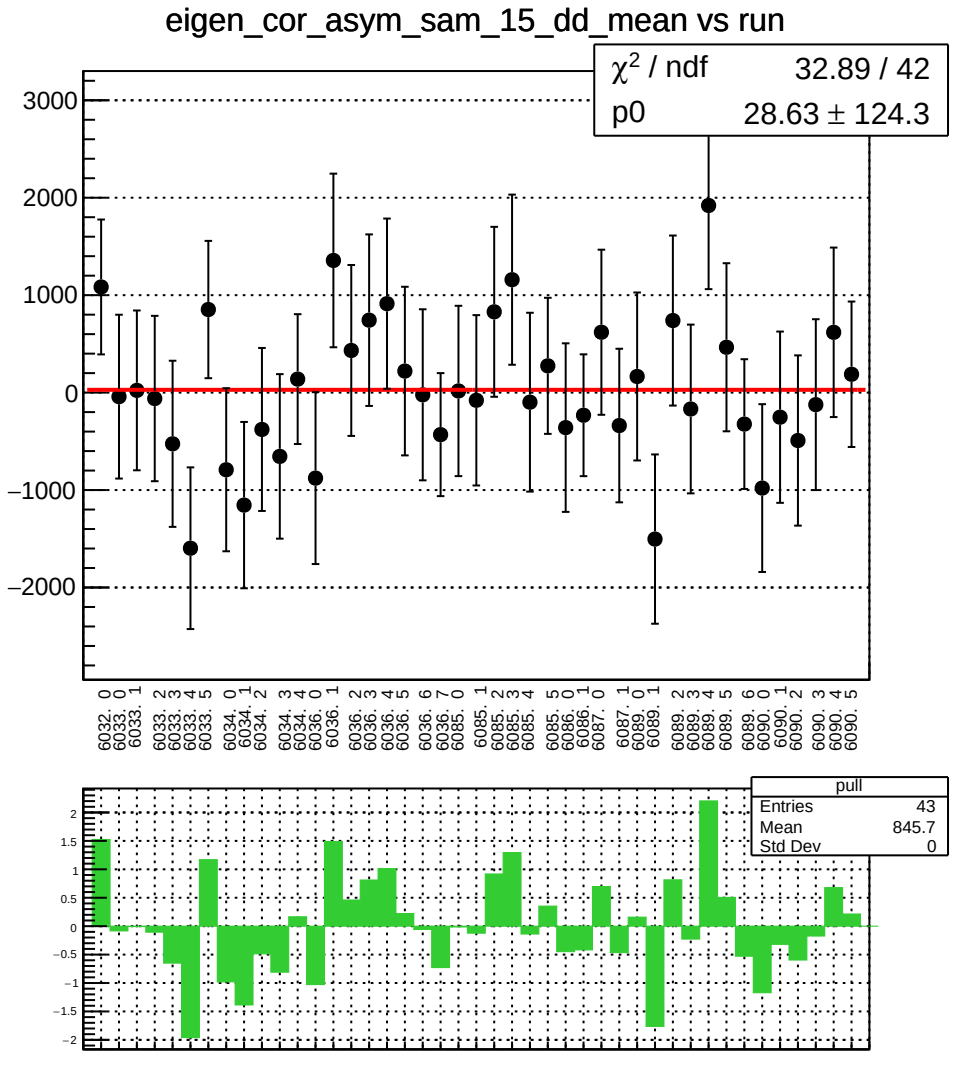

cor_asym_sam_15_dd_mean vs run
χ² / ndf 32.89 / 42
p0 28.63 ± 124.3
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 845.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

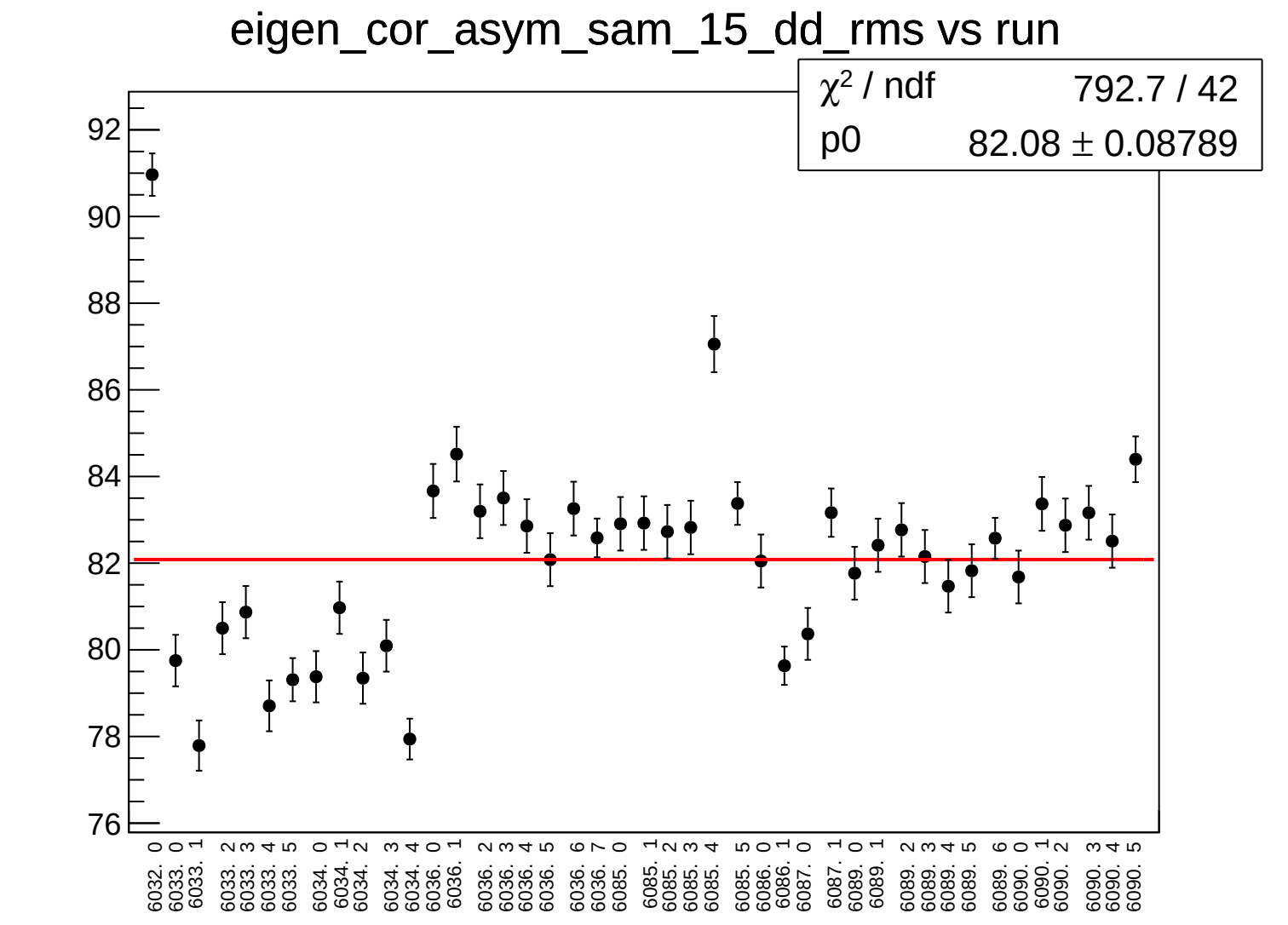

pull1D
Entries 43
Mean 0.0007029
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

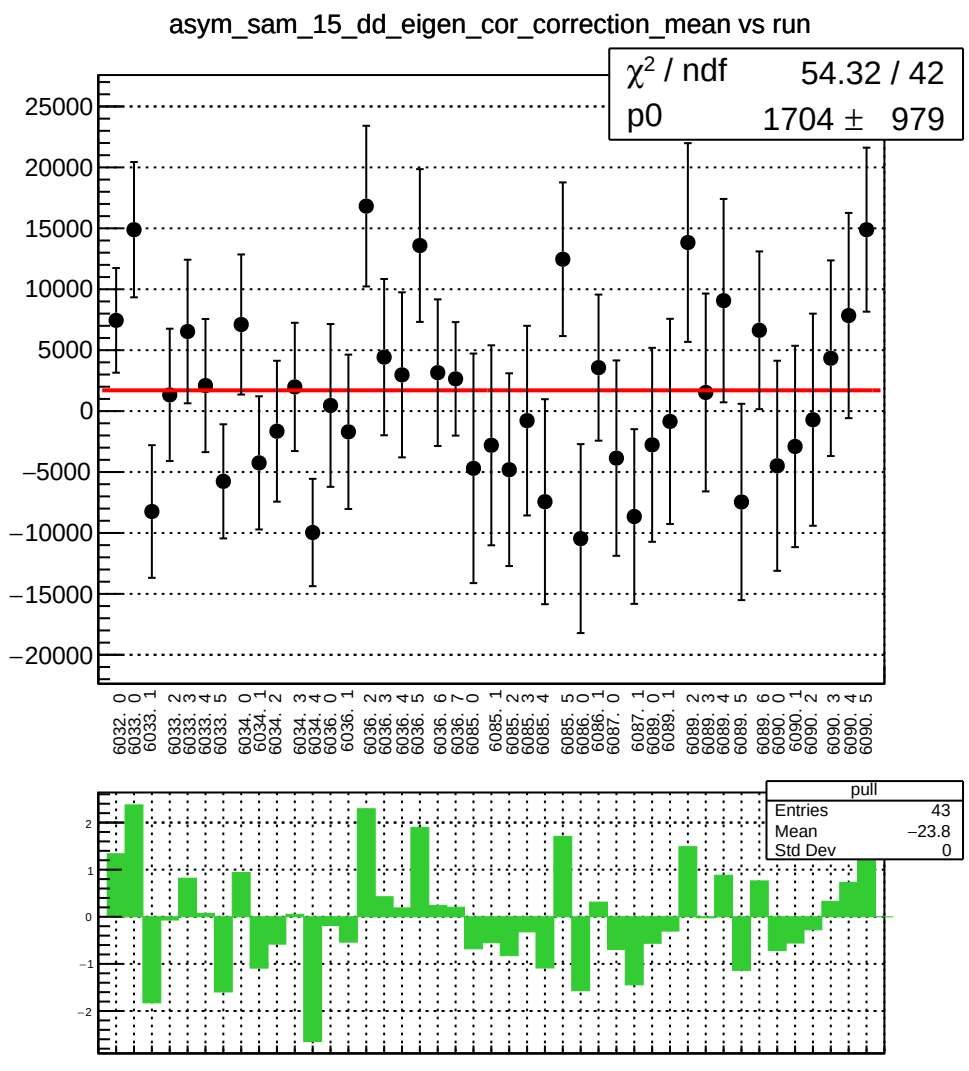

cor_asym_sam_15_dd_rms vs run
χ² / ndf 792.7 / 42
p0 82.08 ± 0.08789
92
90
88
86
84
82
80
78
76
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

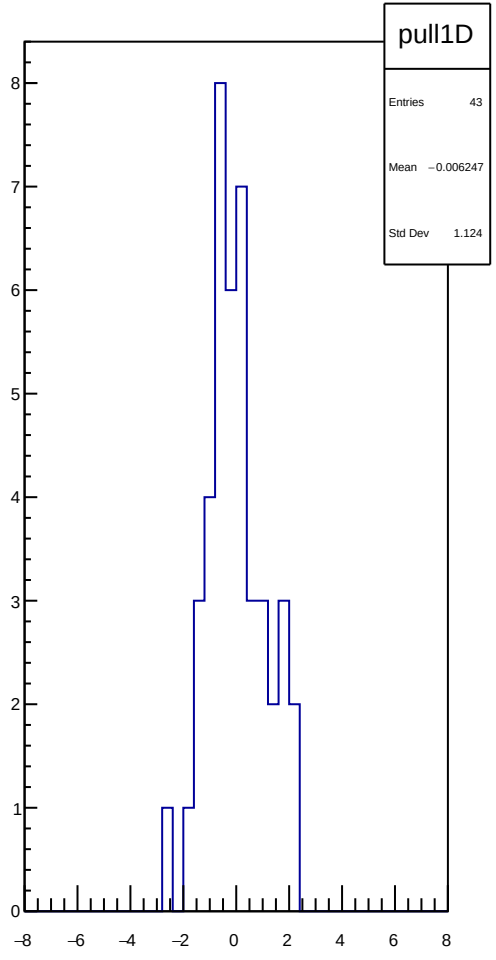

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 54.32 / 42
p0 1704 ± 979
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −23.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.006247
Std Dev 1.124
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

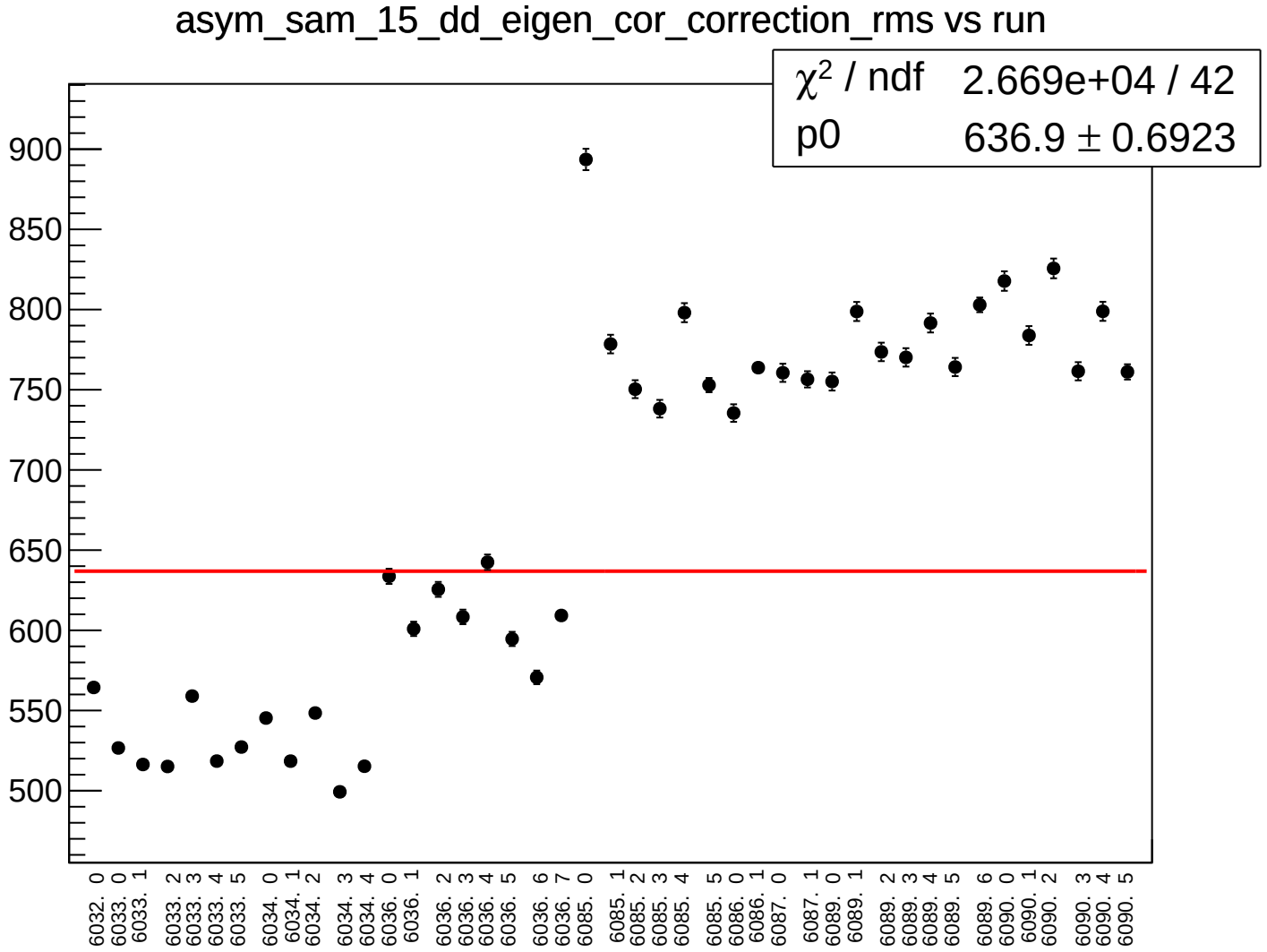

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.669e+04 / 42
p0 636.9 ± 0.6923
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

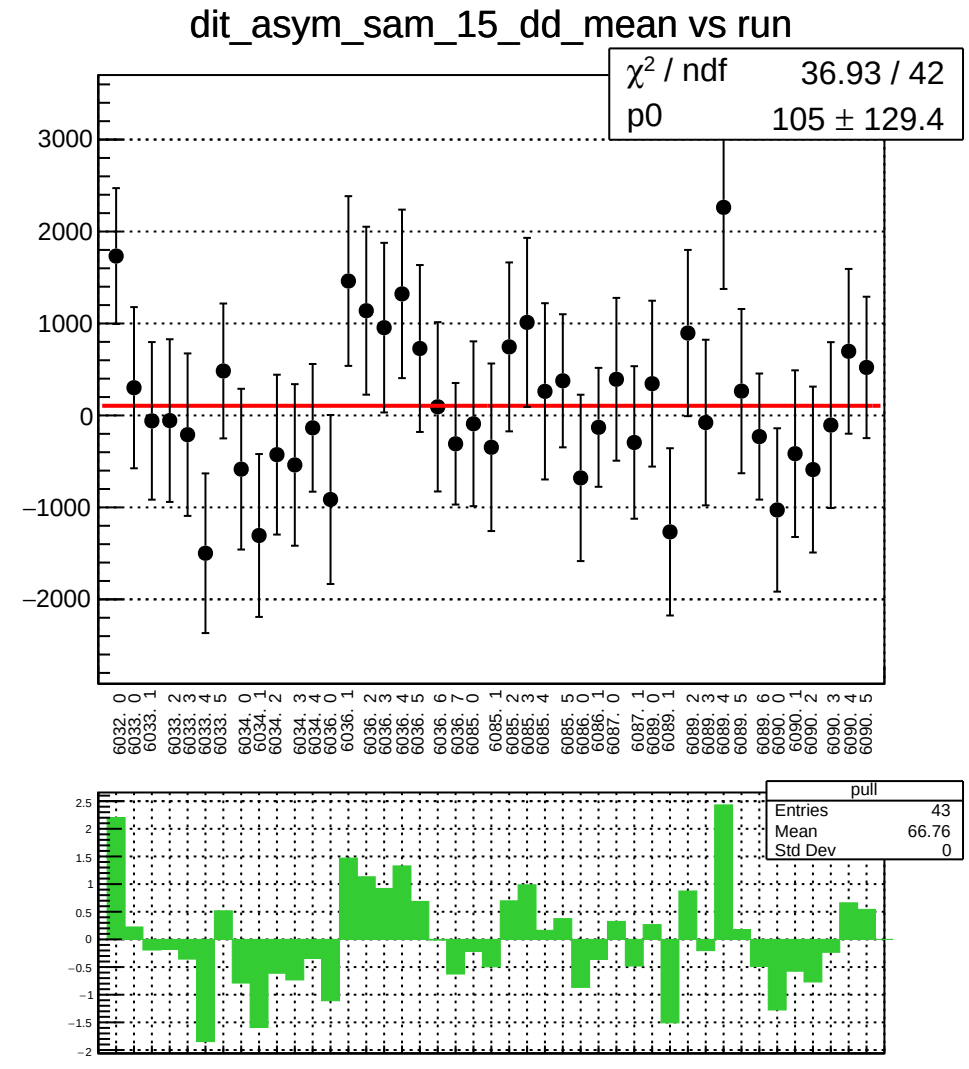

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 32.89 / 42
p0 28.63 ± 124.3
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 845.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0007029
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

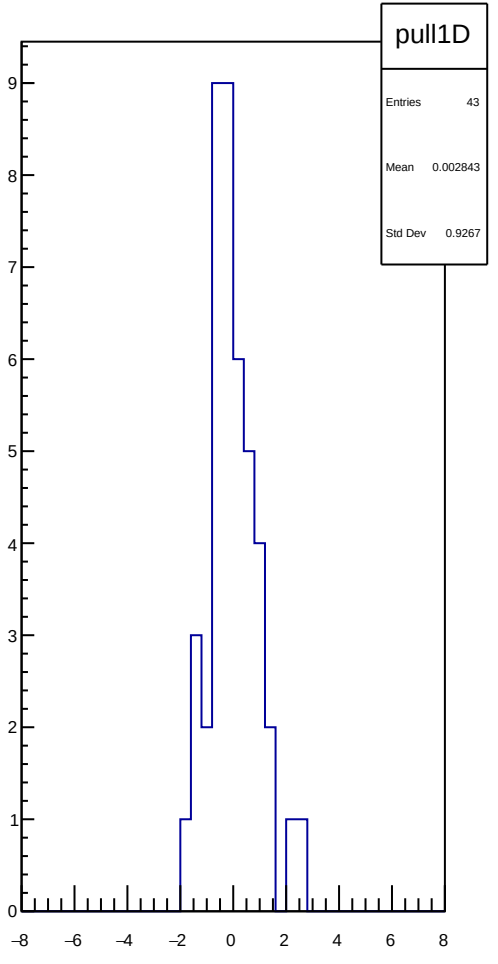

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 792.7 / 42
p0 82.08 ± 0.08789
92
90
88
86
84
82
80
78
76
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

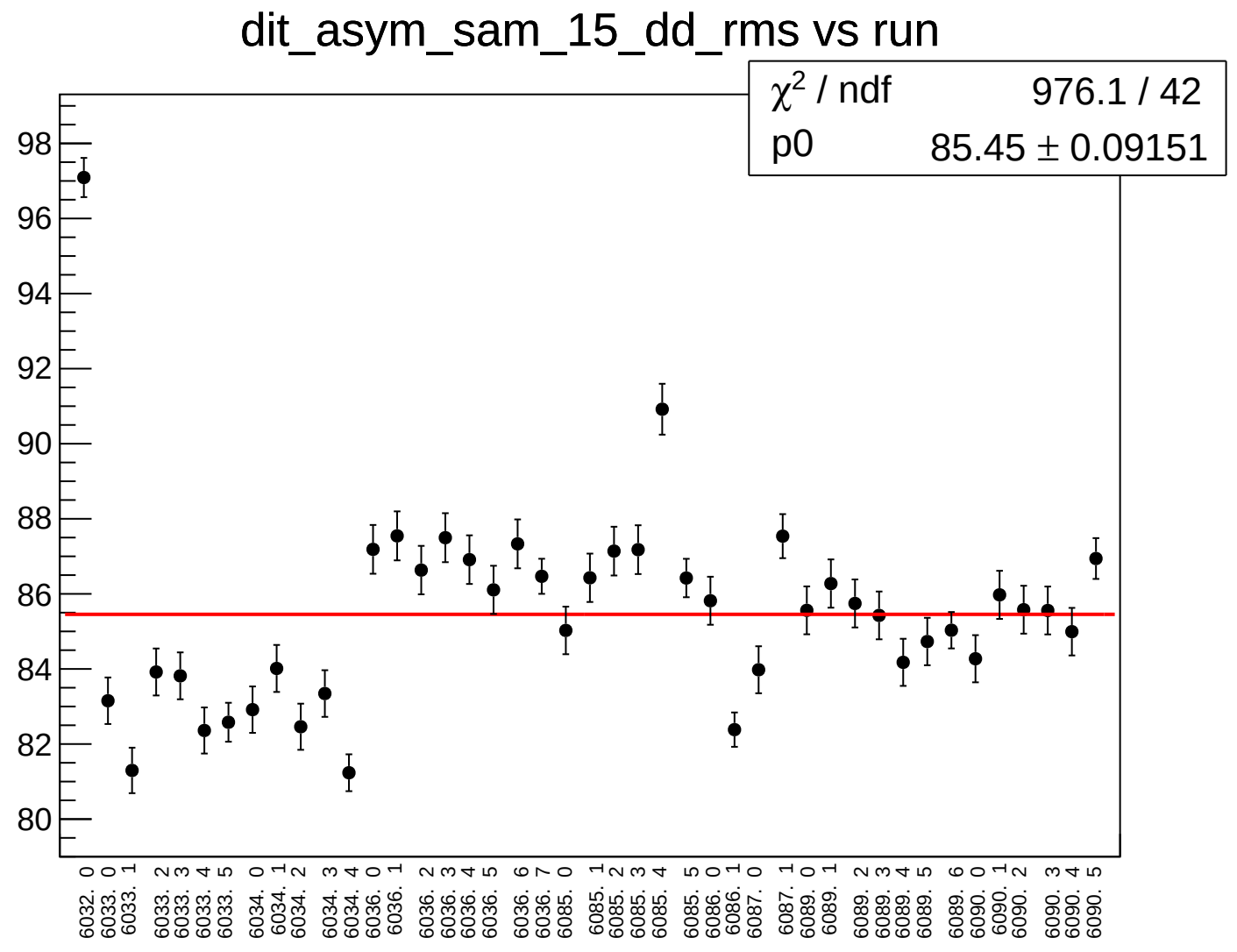

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 54.32 / 42
p0 1704 ± 979
pull
Entries 43
Mean −23.8
Std Dev 0

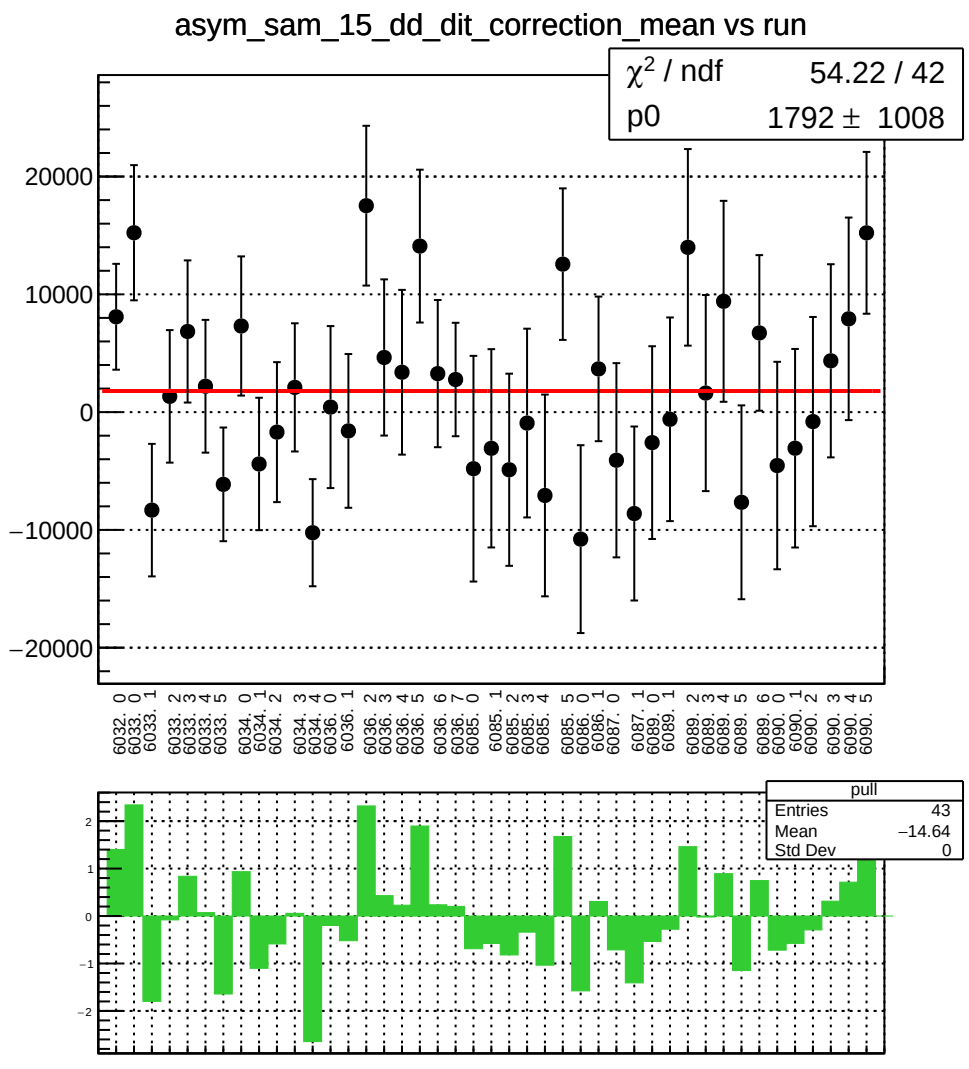

pull1D
Entries 43
Mean −0.006247
Std Dev 1.124

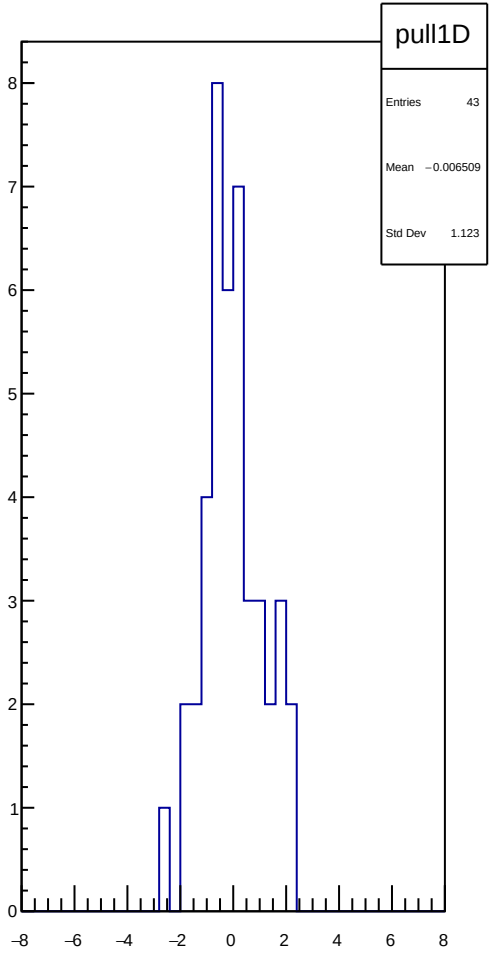

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.669e+04 / 42
p0 636.9 ± 0.6923
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

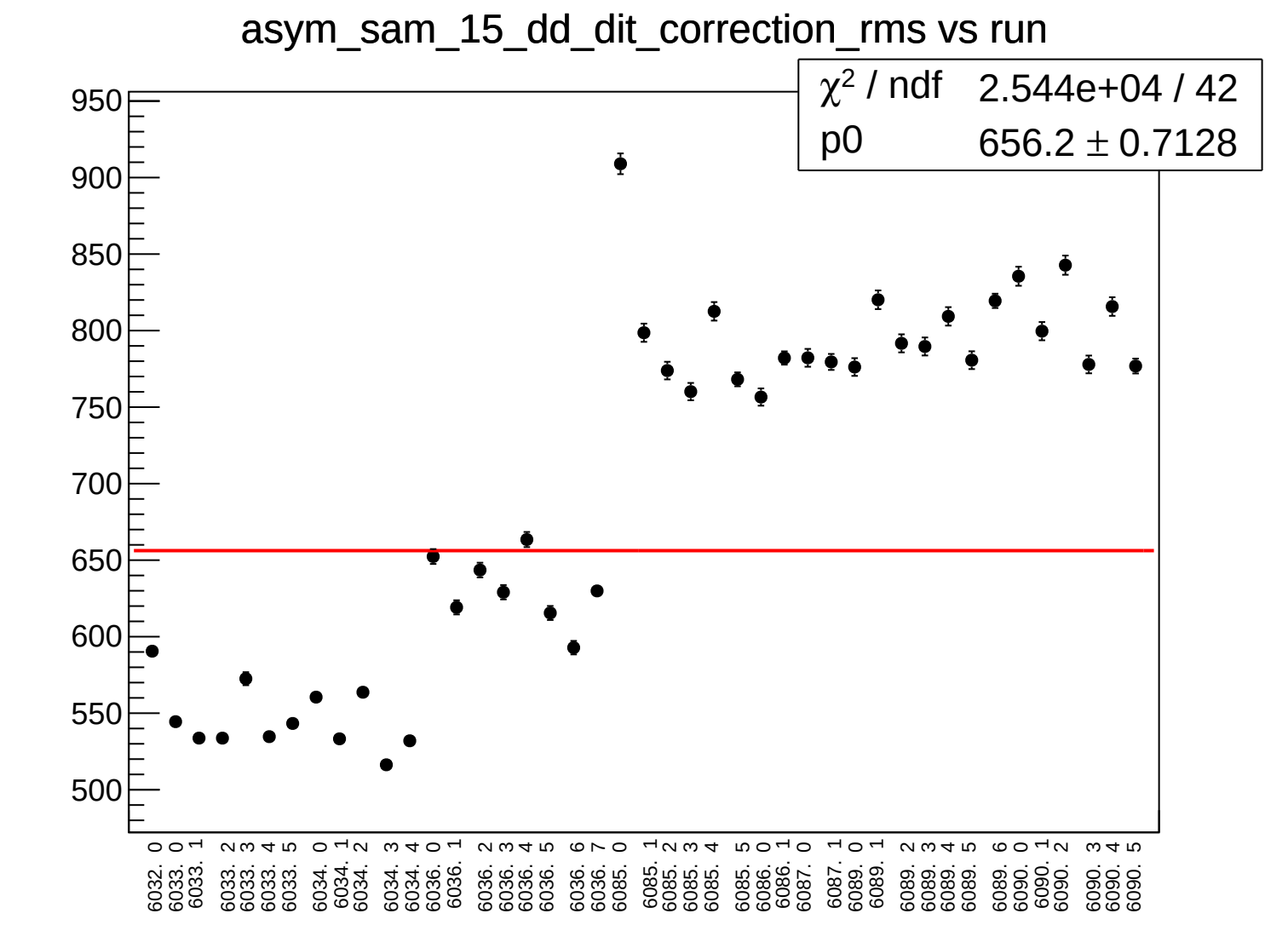

dit_asym_sam_15_dd_mean vs run
χ² / ndf 36.93 / 42
p0 105 ± 129.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 66.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

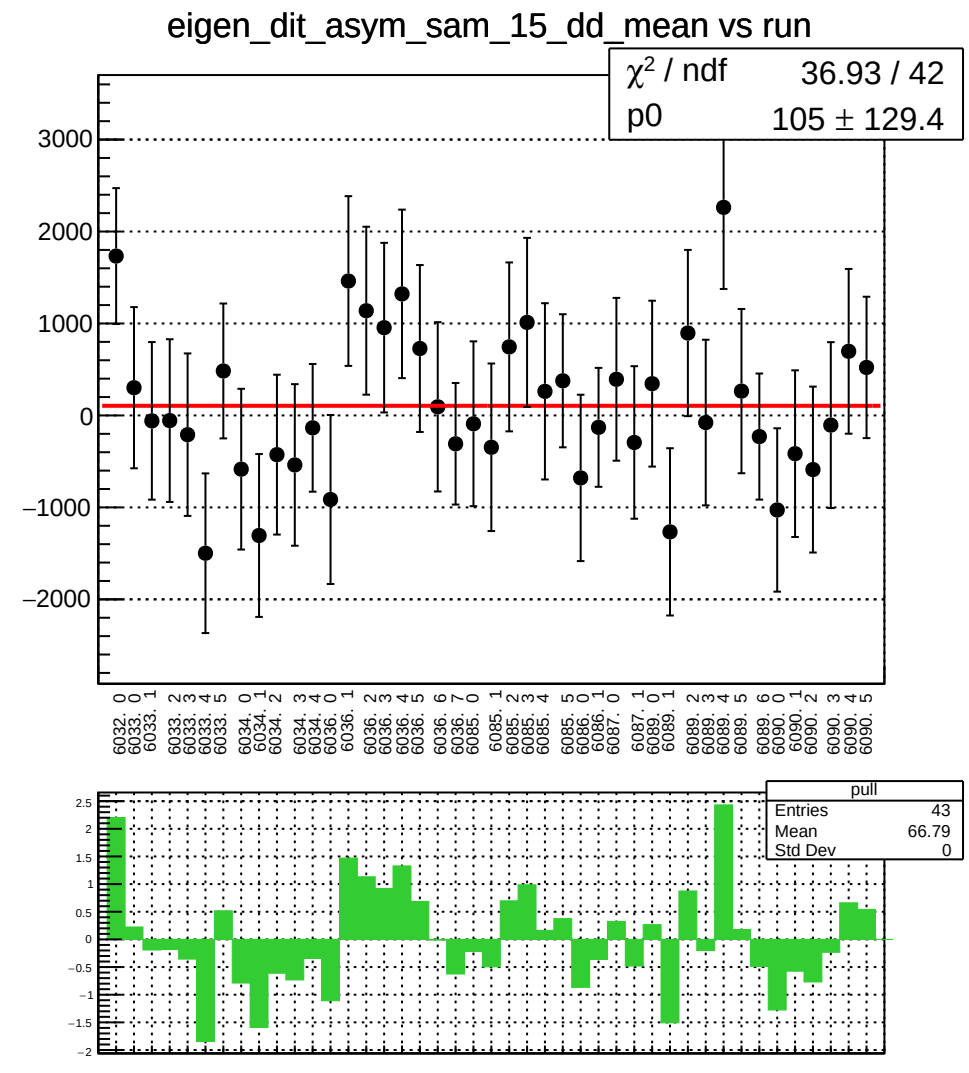

pull1D
Entries 43
Mean 0.002843
Std Dev 0.9267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

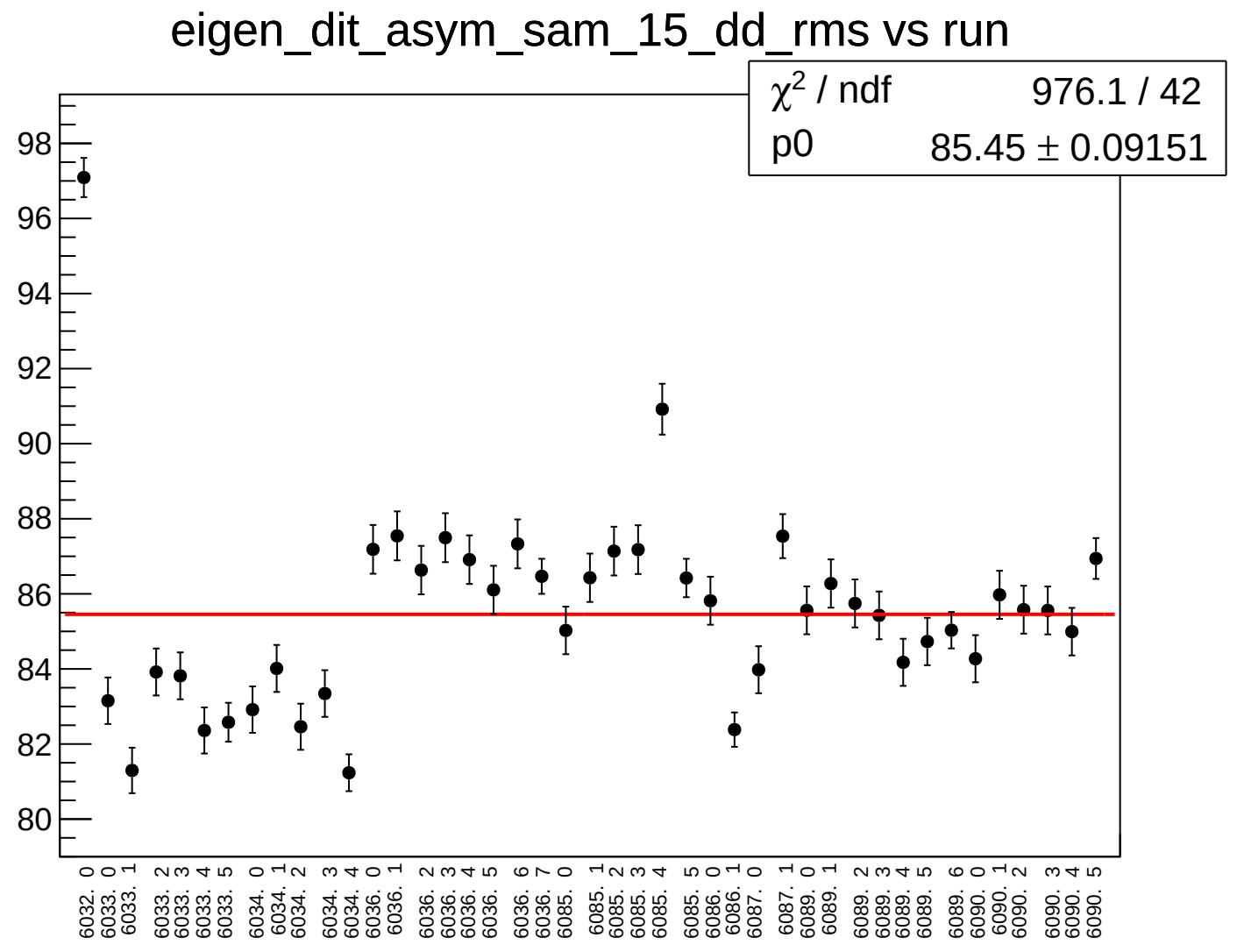

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 976.1 / 42
p0 85.45 ± 0.09151
98
96
94
92
90
88
86
84
82
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

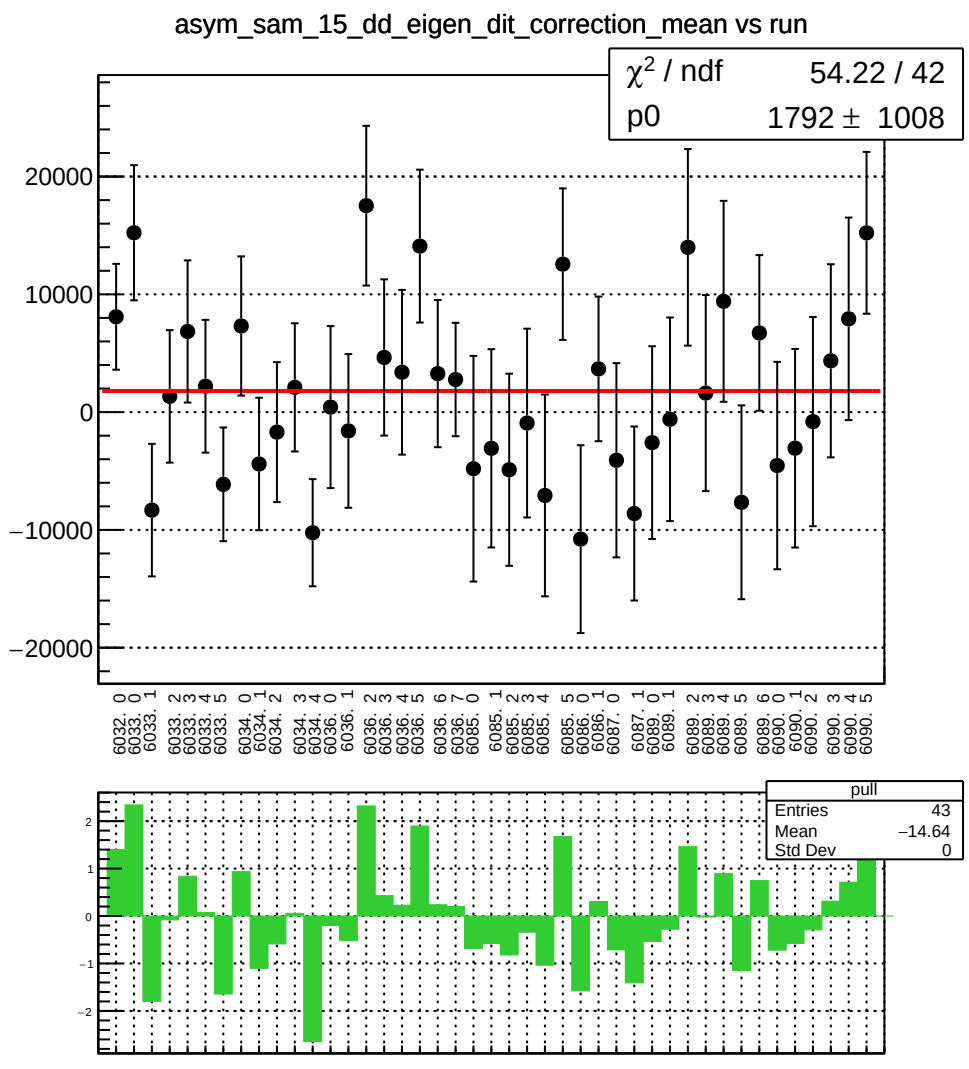

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 54.22 / 42
p0 1792 ± 1008
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.64
Std Dev 0
2
1
0
−1
−2

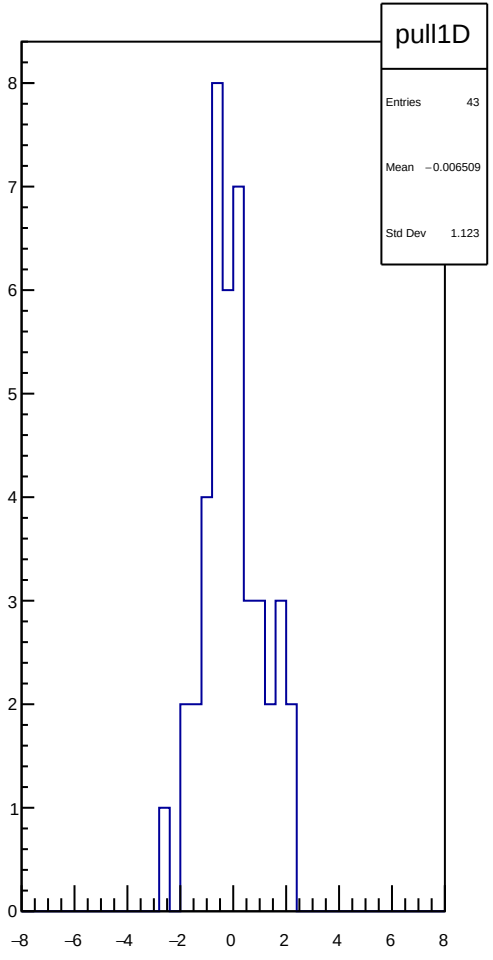

pull1D
Entries 43
Mean −0.006509
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

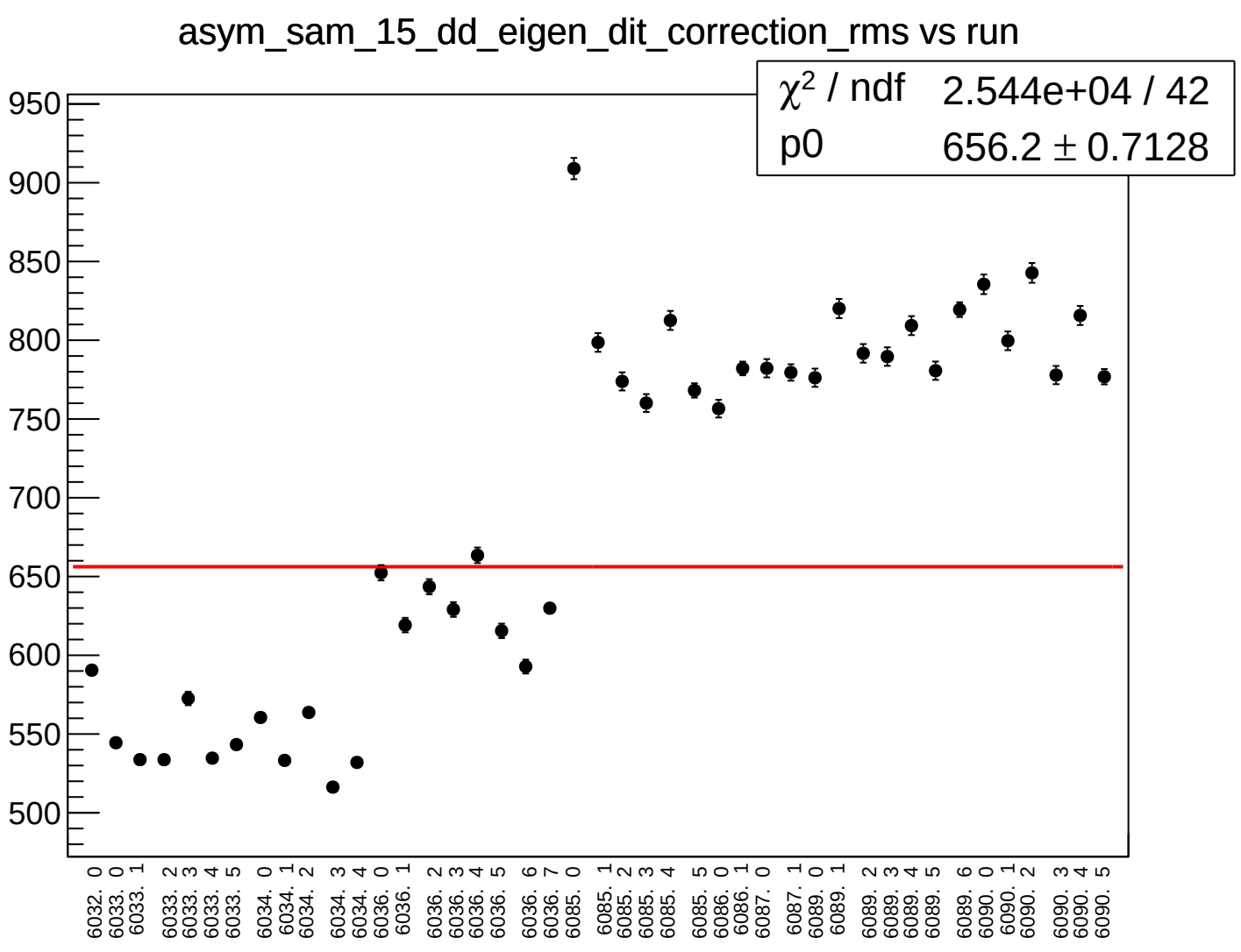

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.544e+04 / 42
p0 656.2 ± 0.7128
950
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

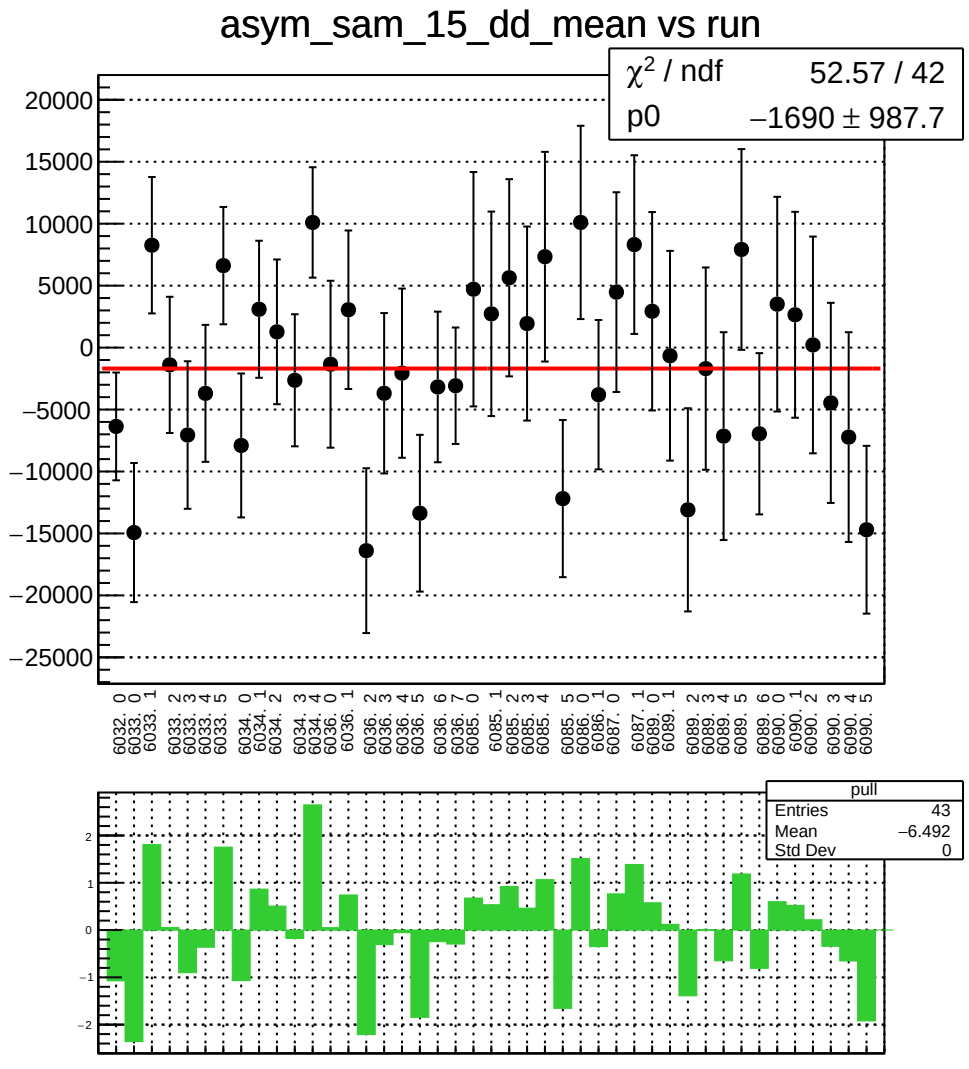

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 36.93 / 42
p0 105 ± 129.4
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 66.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.002842
Std Dev 0.9267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

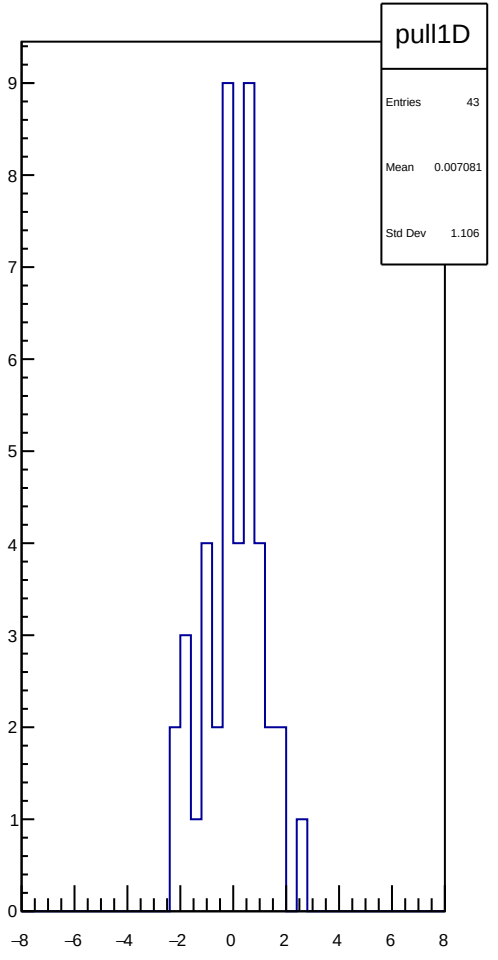

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 976.1 / 42
p0 85.45 ± 0.09151
98
96
94
92
90
88
86
84
82
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

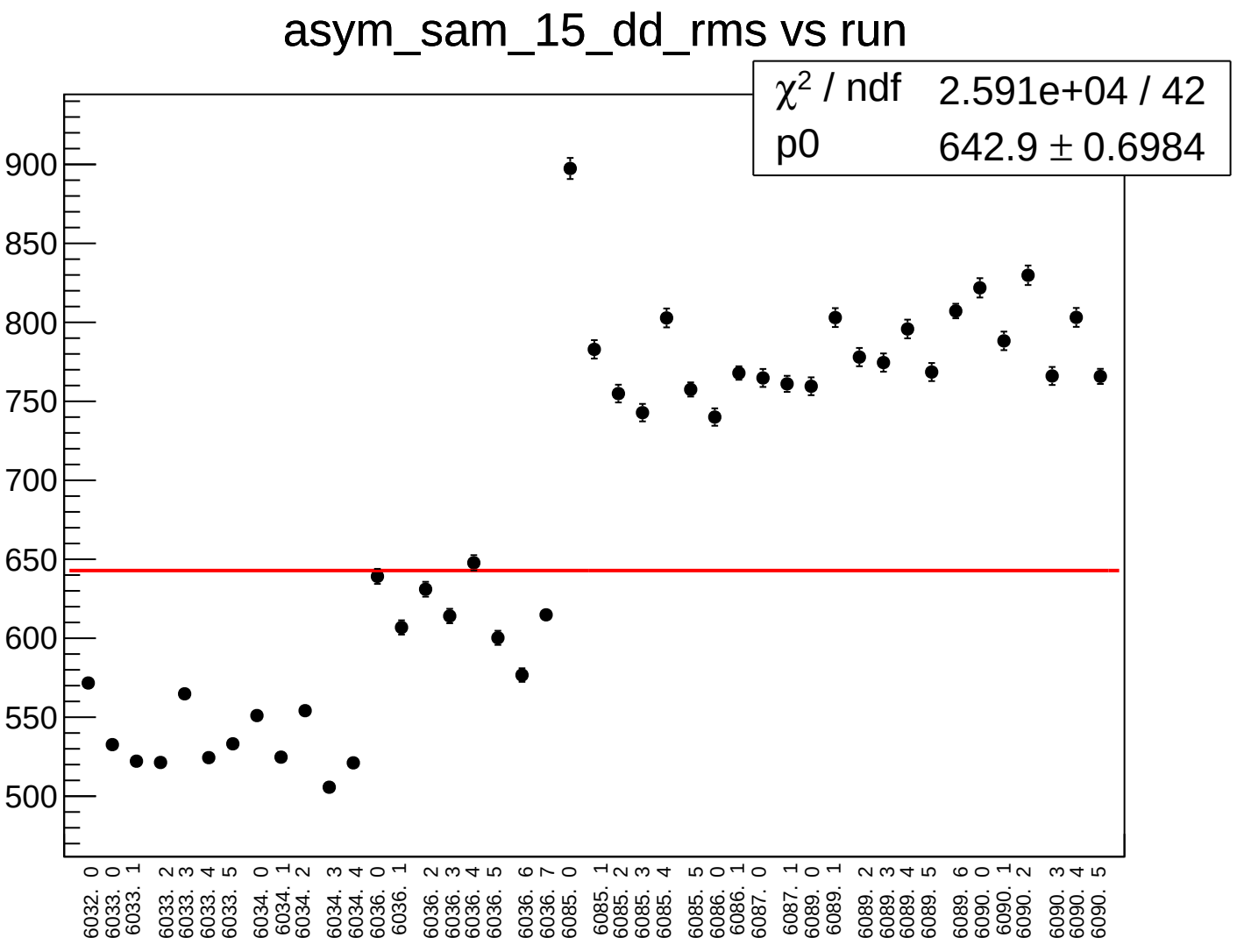

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 54.22 / 42
p0 1792 ± 1008
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −14.64
Std Dev 0
2
1
0
−1
−2

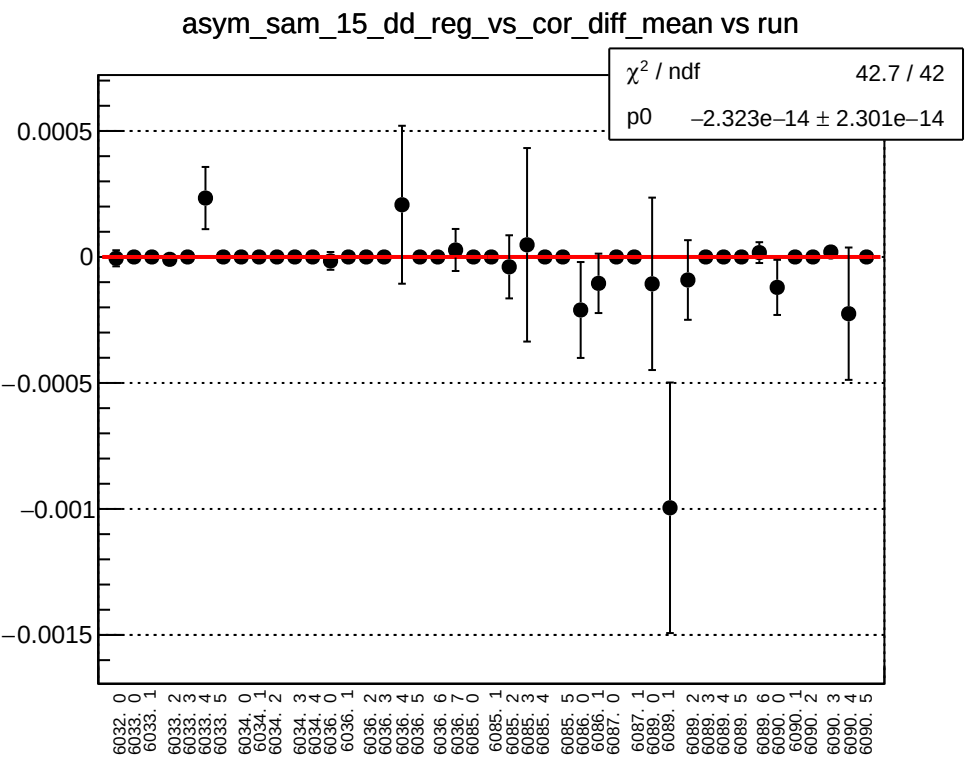

pull1D
Entries 43
Mean −0.006509
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

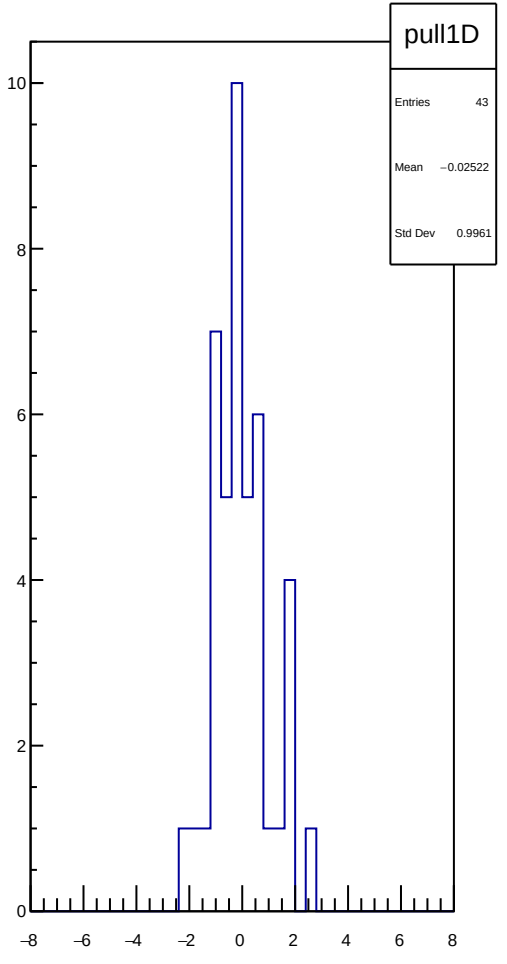

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.544e+04 / 42
p0 656.2 ± 0.7128
950
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

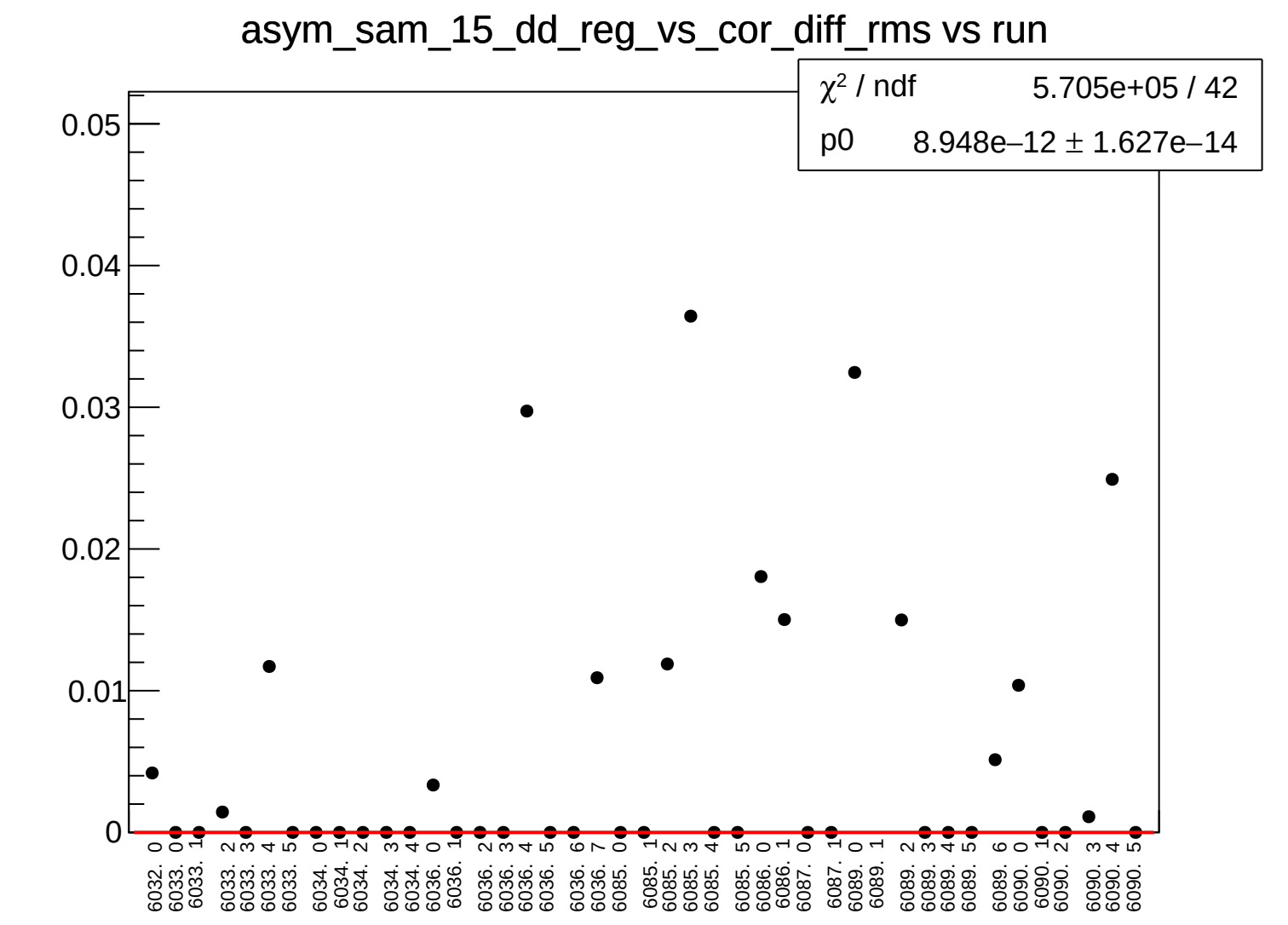

asym_sam_15_dd_mean vs run
χ² / ndf 52.57 / 42
p0 −1690 ± 987.7
pull
Entries 43
Mean −6.492
Std Dev 0

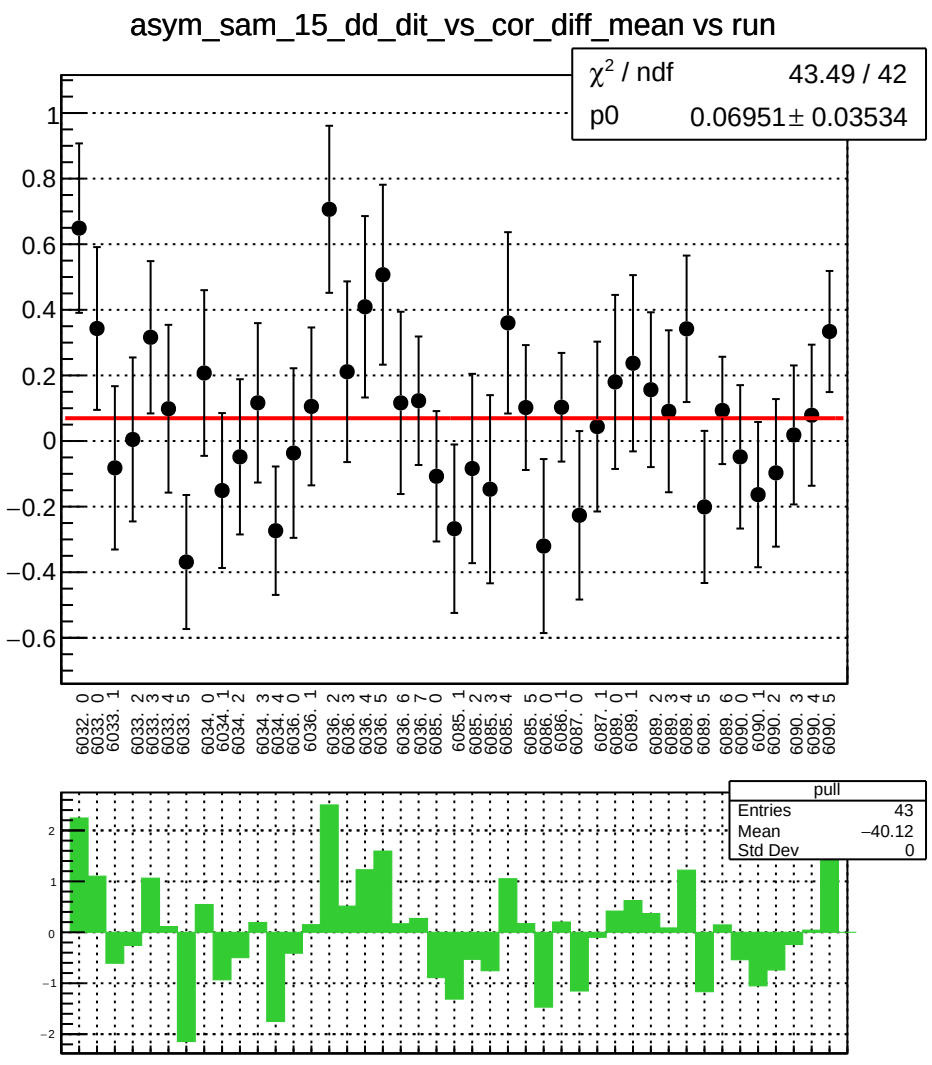

pull1D
Entries 43
Mean 0.007081
Std Dev 1.106

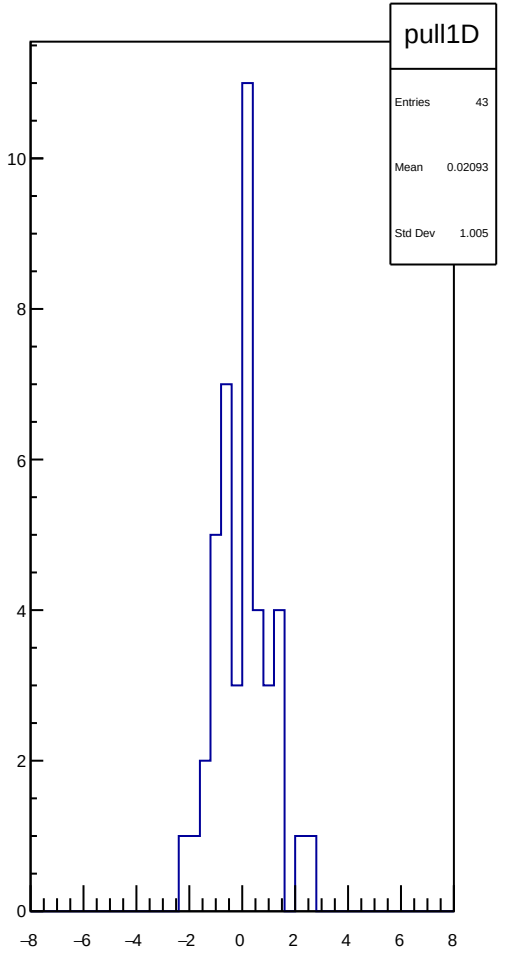

asym_sam_15_dd_rms vs run
χ² / ndf 2.591e+04 / 42
p0 642.9 ± 0.6984
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

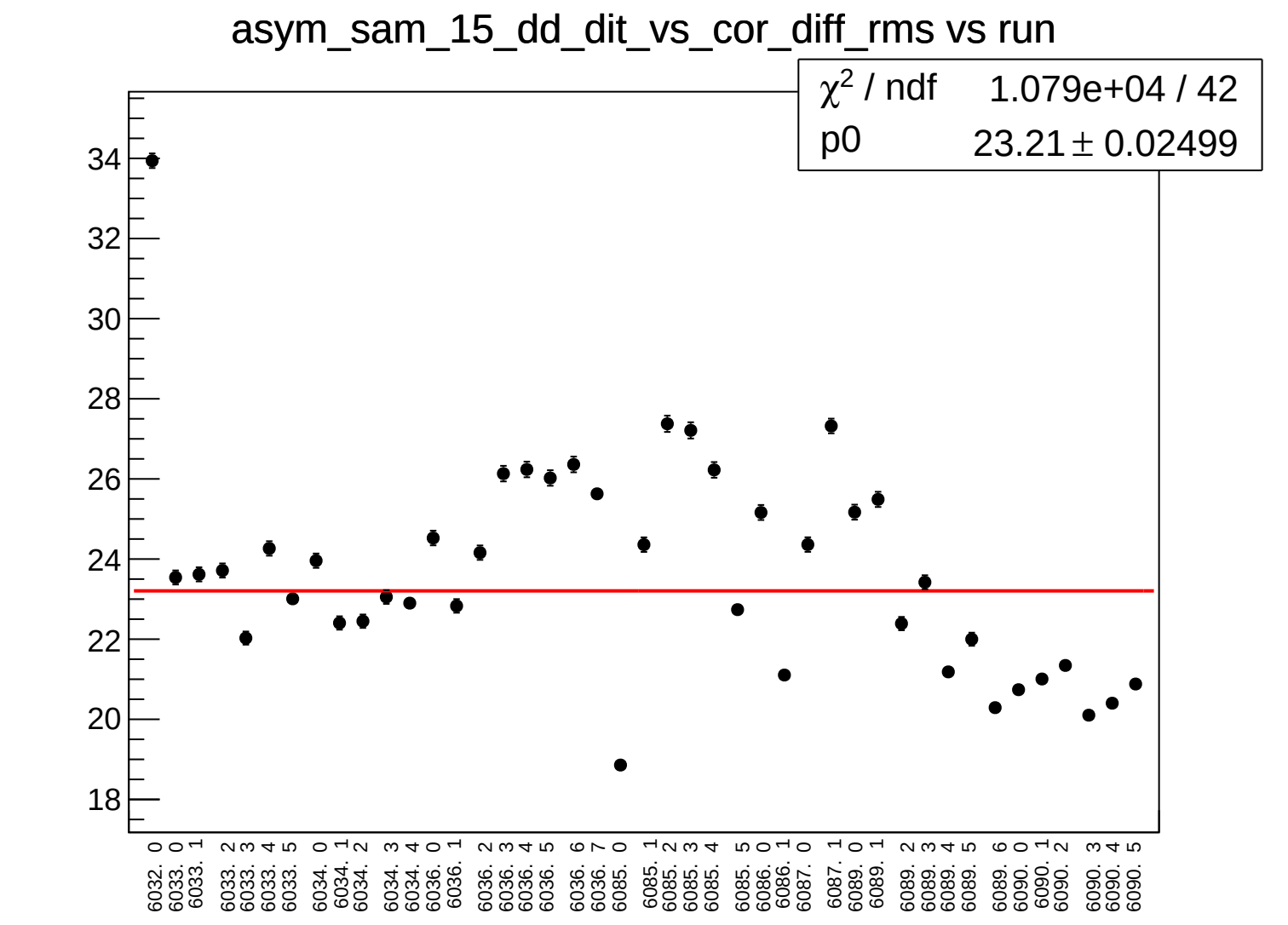

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 42.7 / 42
p0 −2.323e−14 ± 2.301e−14
0.0005
0
−0.0005
−0.001
−0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −31.8
Std Dev 0
2
1
0
−1
−2

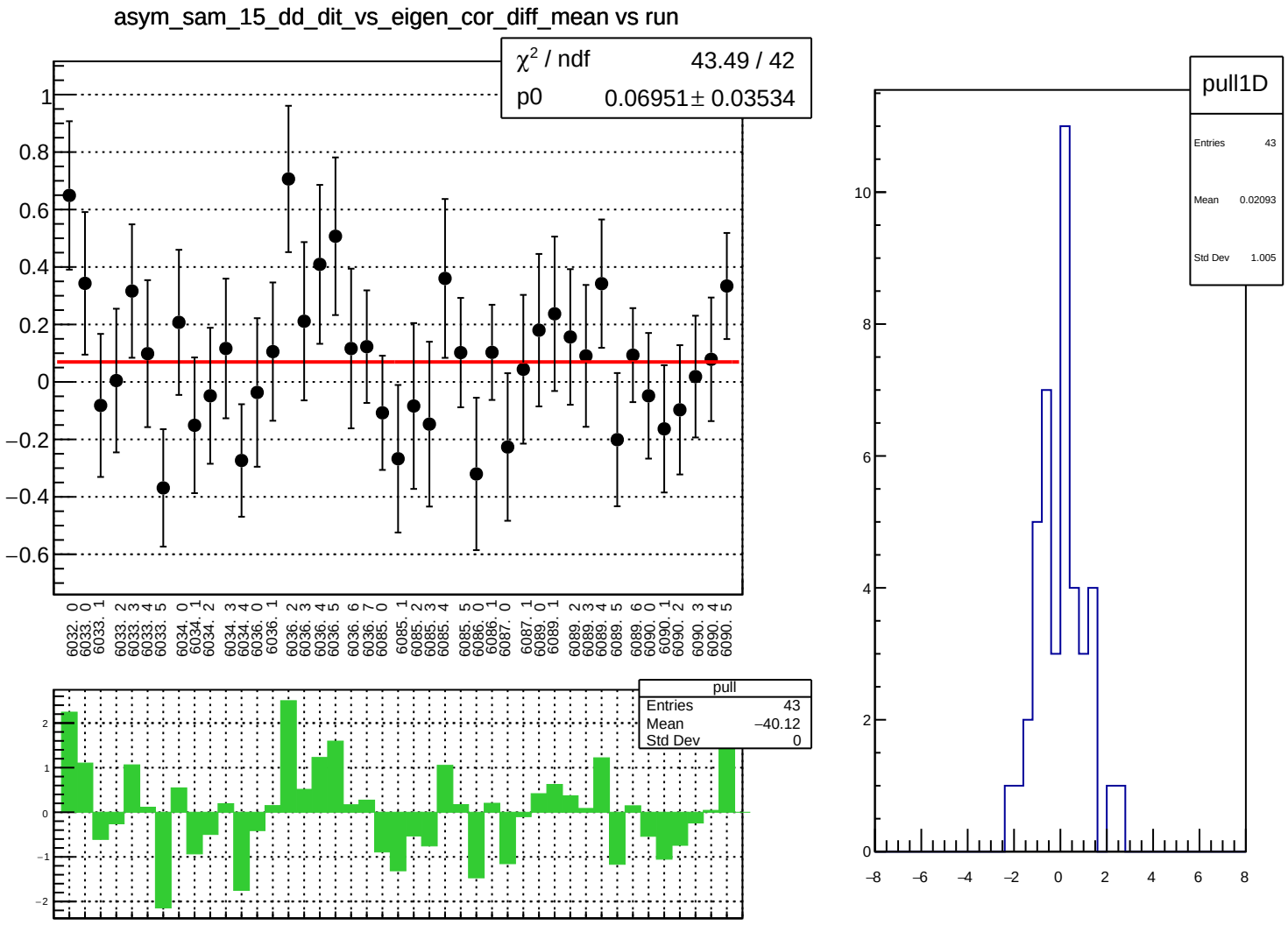

pull1D
Entries 43
Mean −0.02522
Std Dev 0.9961
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

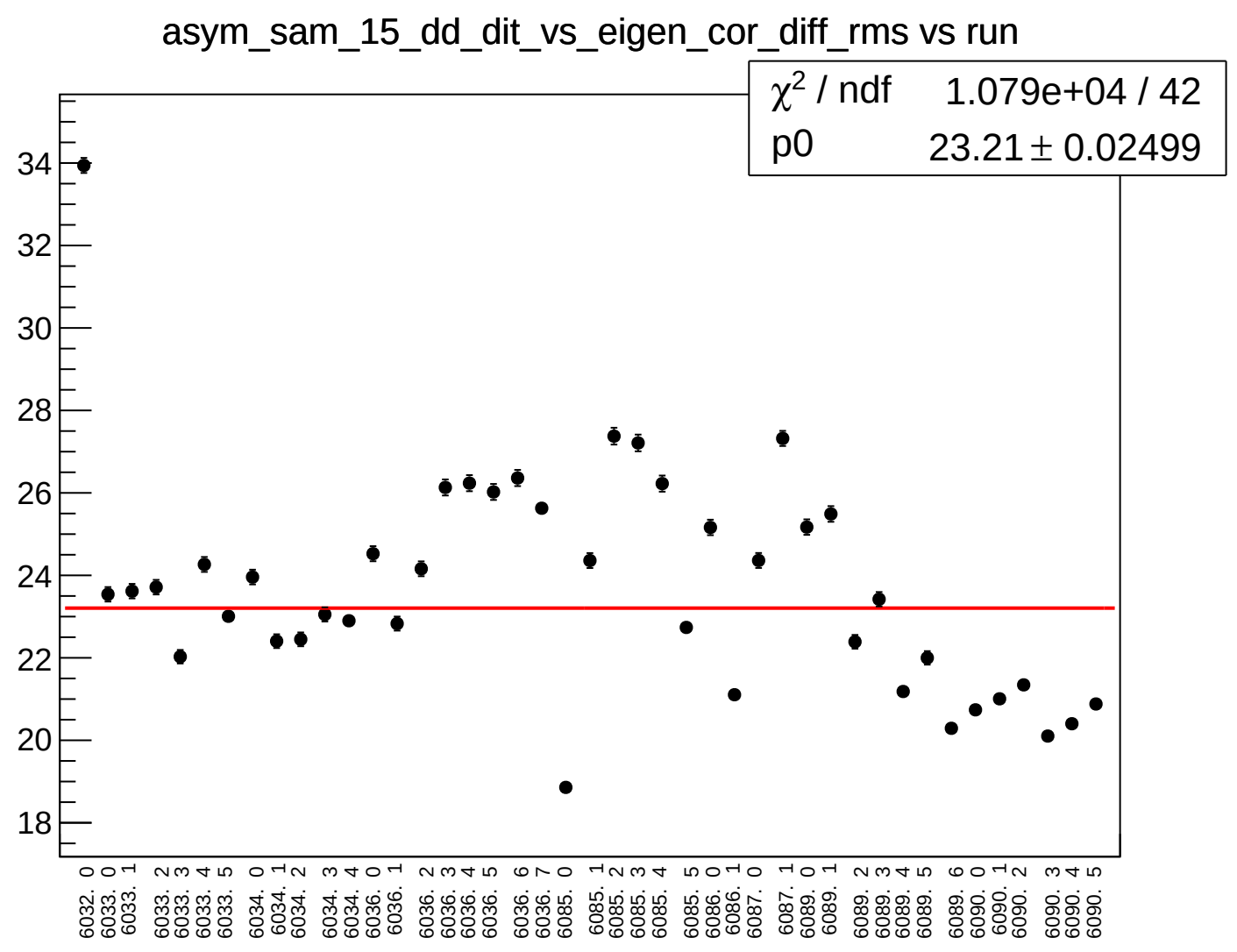

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.705e+05 / 42
p0 8.948e−12 ± 1.627e−14
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

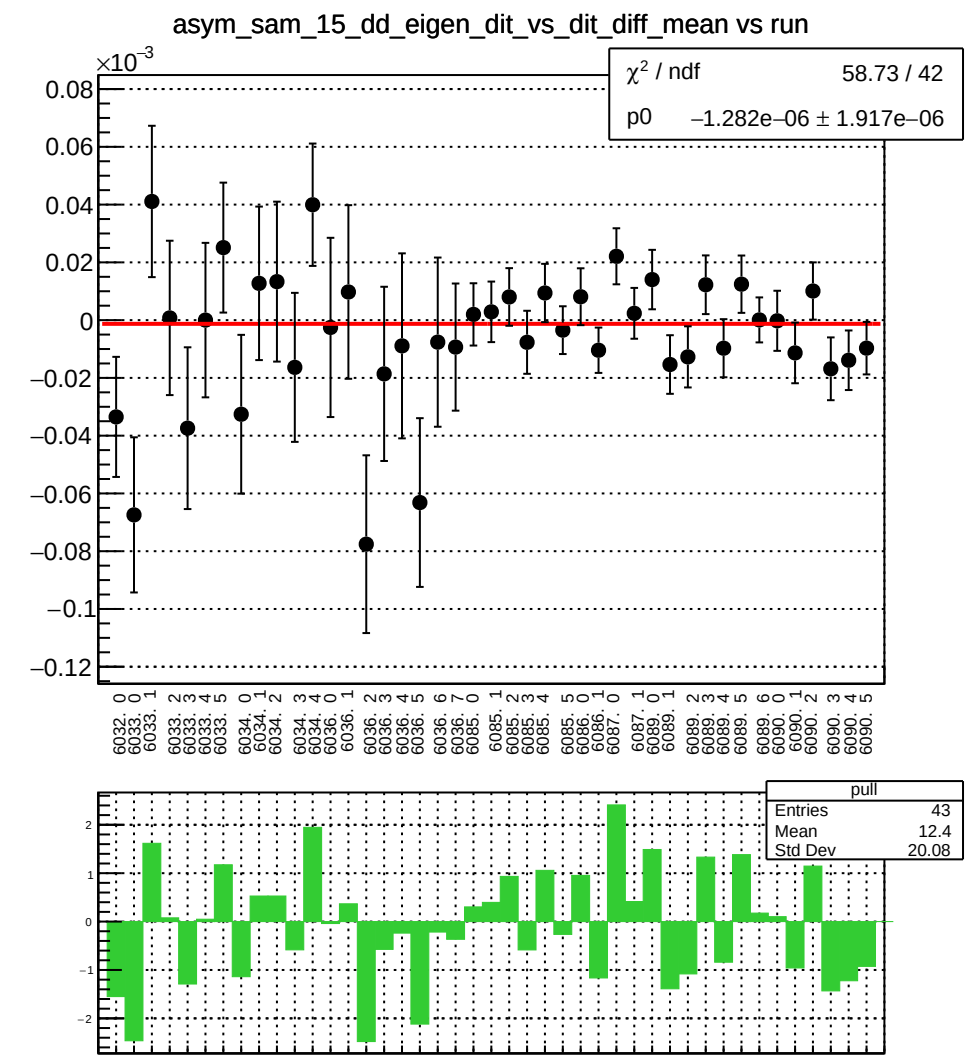

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.49 / 42
p0 0.06951 ± 0.03534
pull
Entries 43
Mean −40.12
Std Dev 0

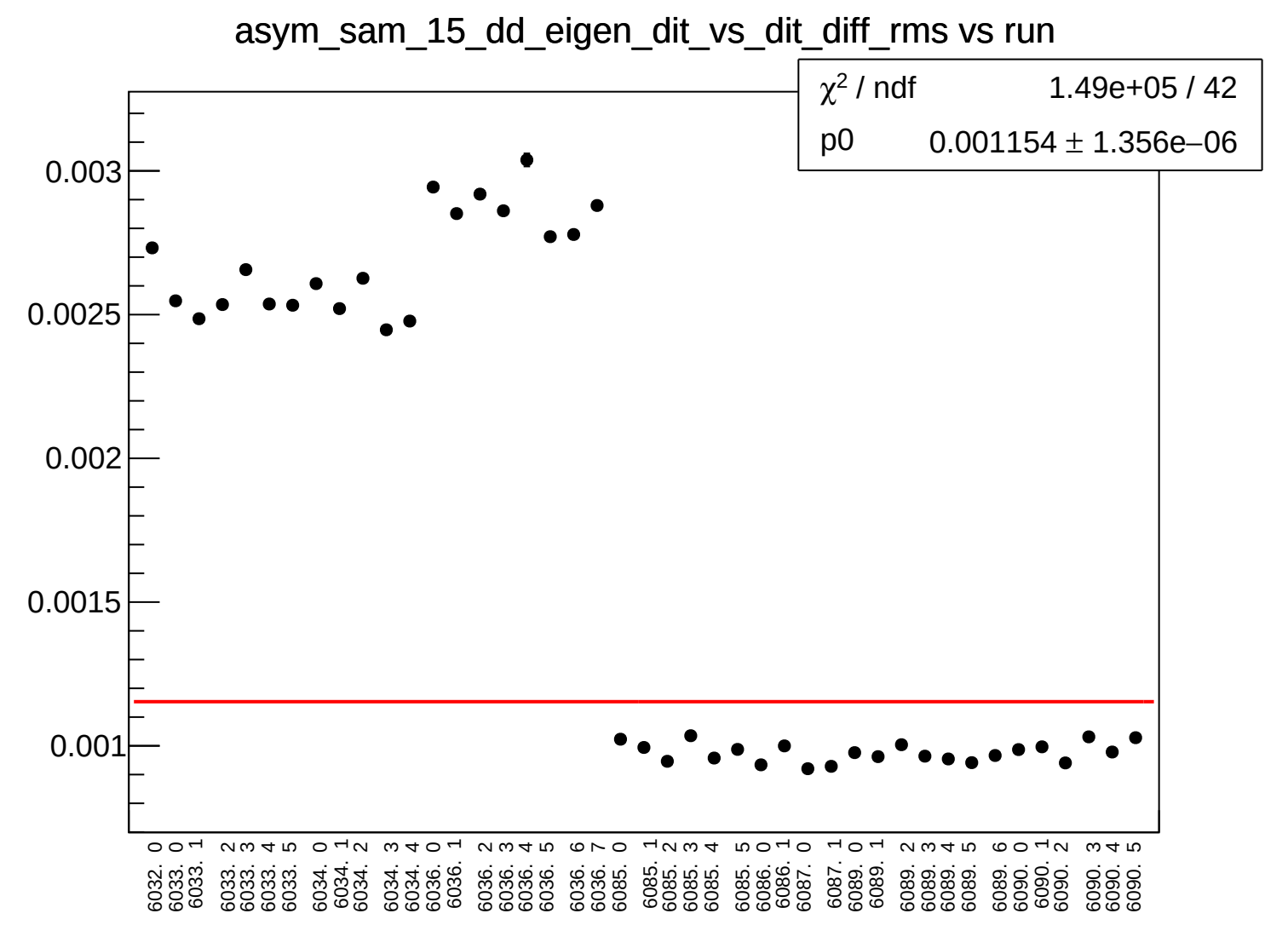

pull1D
Entries 43
Mean 0.02093
Std Dev 1.005

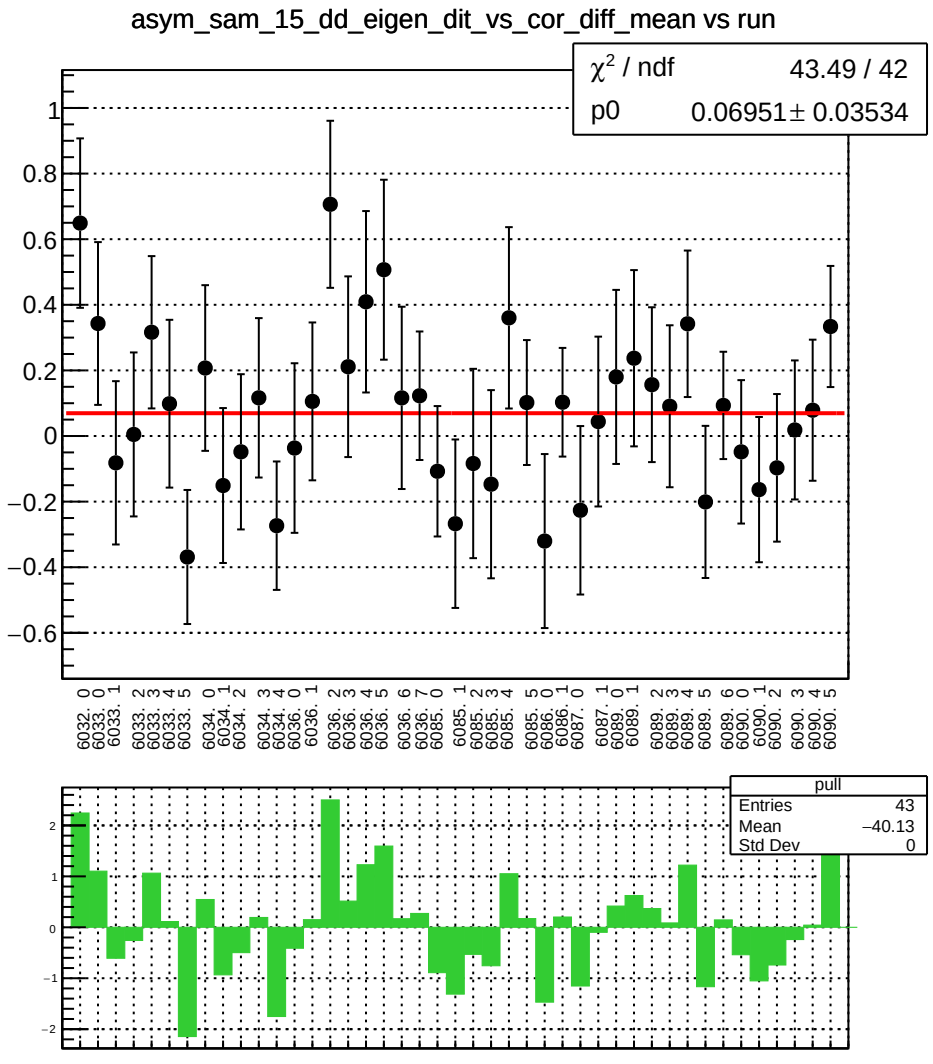

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 42
p0 23.21 ± 0.02499
34
32
30
28
26
24
22
20
18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

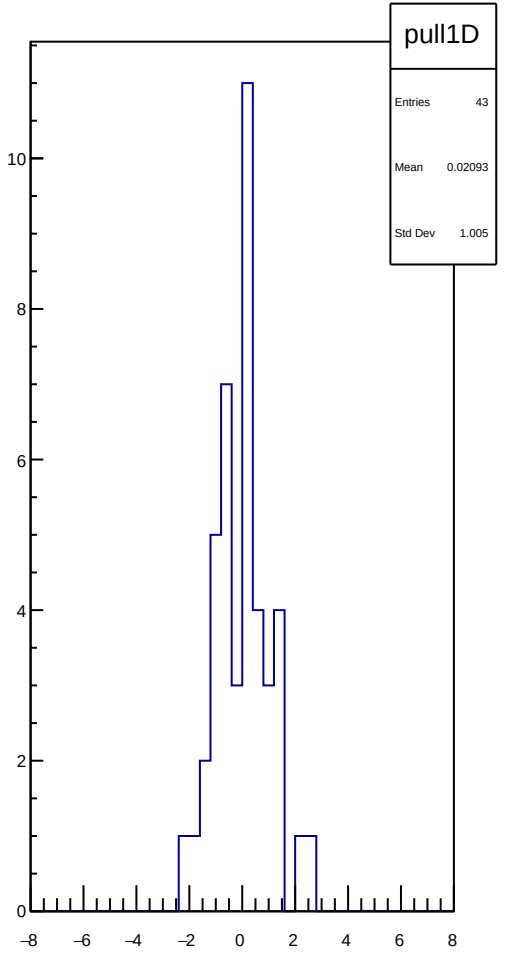

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.49 / 42
p0 0.06951 ± 0.03534
pull
Entries 43
Mean −40.12
Std Dev 0
pull1D
Entries 43
Mean 0.02093
Std Dev 1.005

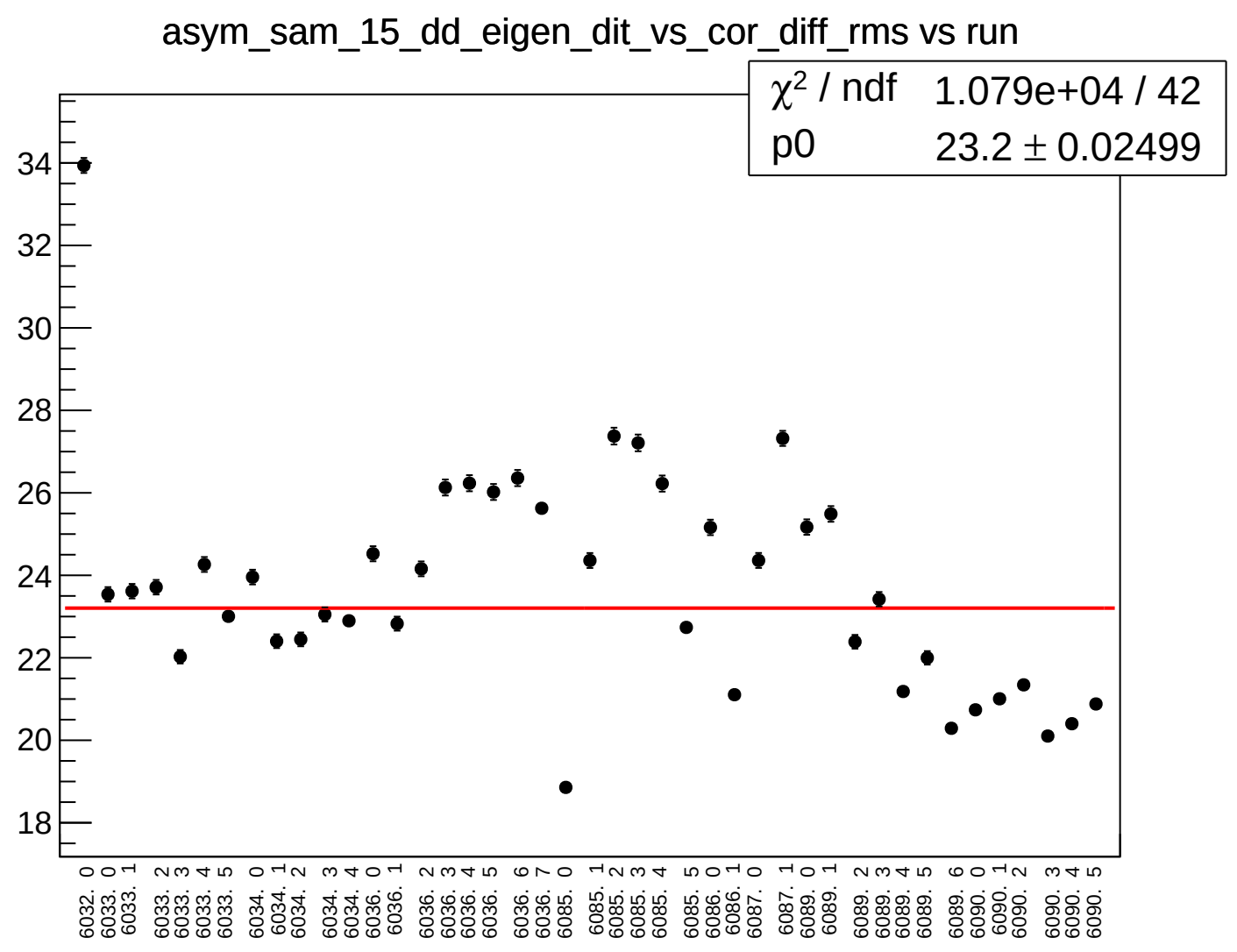

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 42
p0 23.21 ± 0.02499
34
32
30
28
26
24
22
20
18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

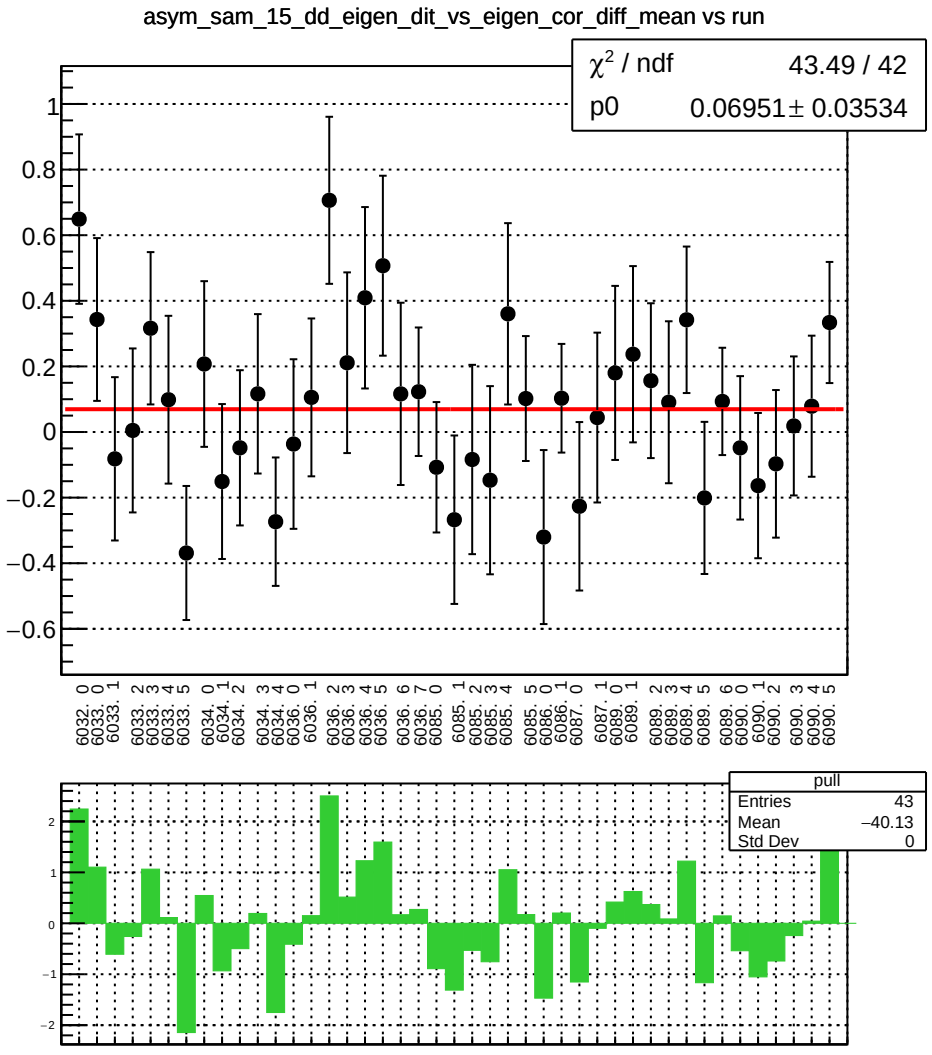

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.73 / 42
p0 −1.282e−06 ± 1.917e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.4
Std Dev 20.08
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1056
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

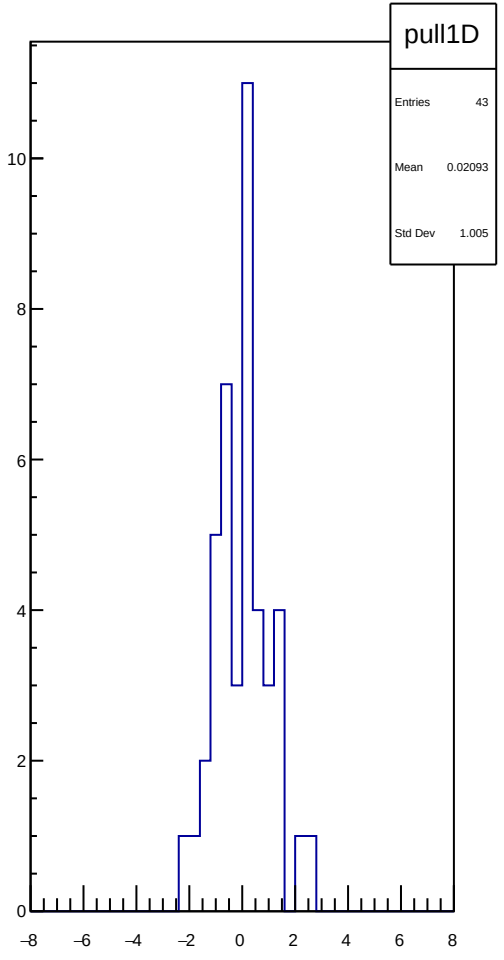

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.49e+05 / 42
p0 0.001154 ± 1.356e−06
0.003
0.0025
0.002
0.0015
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

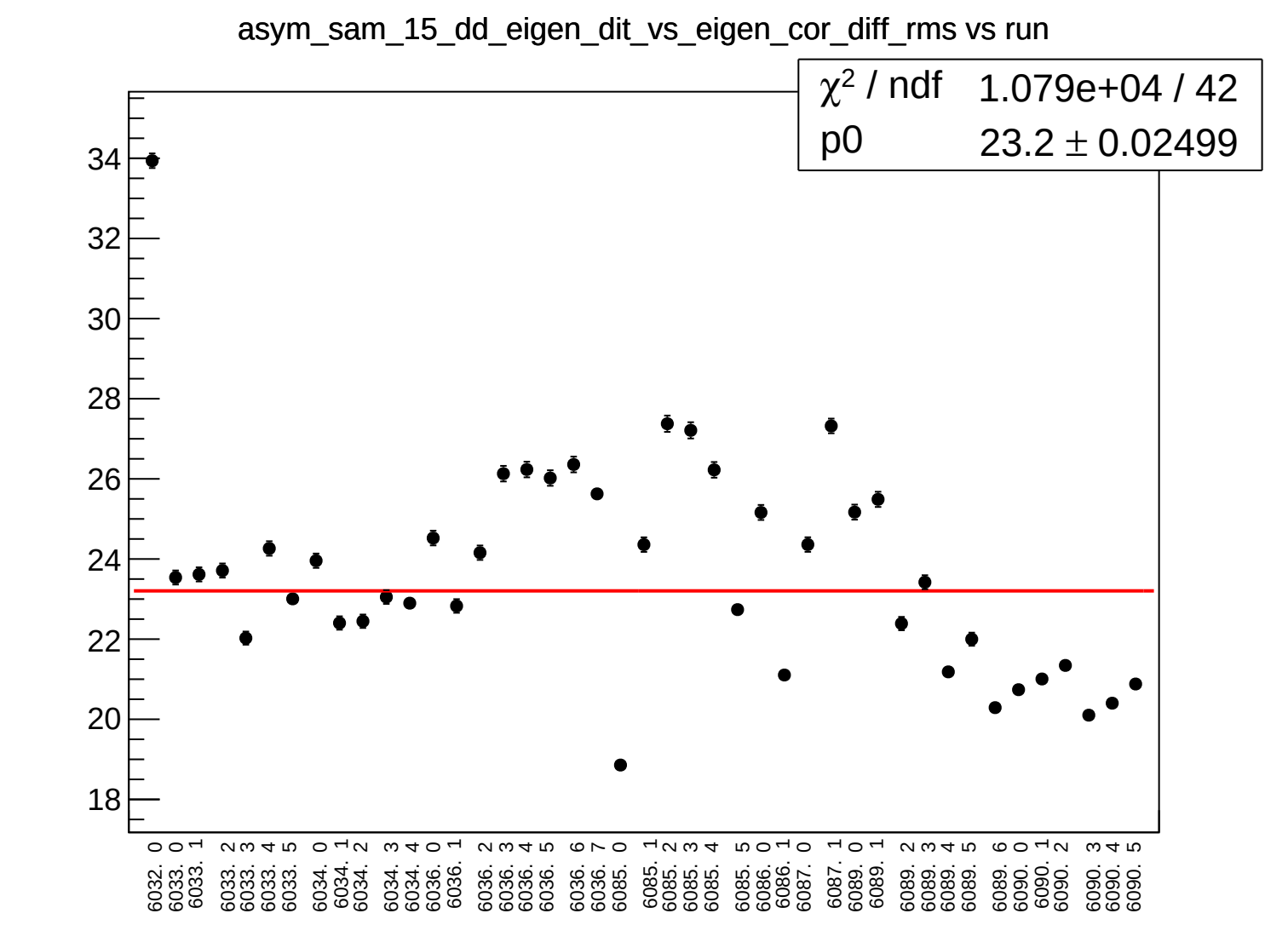

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.49 / 42
p0 0.06951 ± 0.03534
pull
Entries 43
Mean −40.13
Std Dev 0

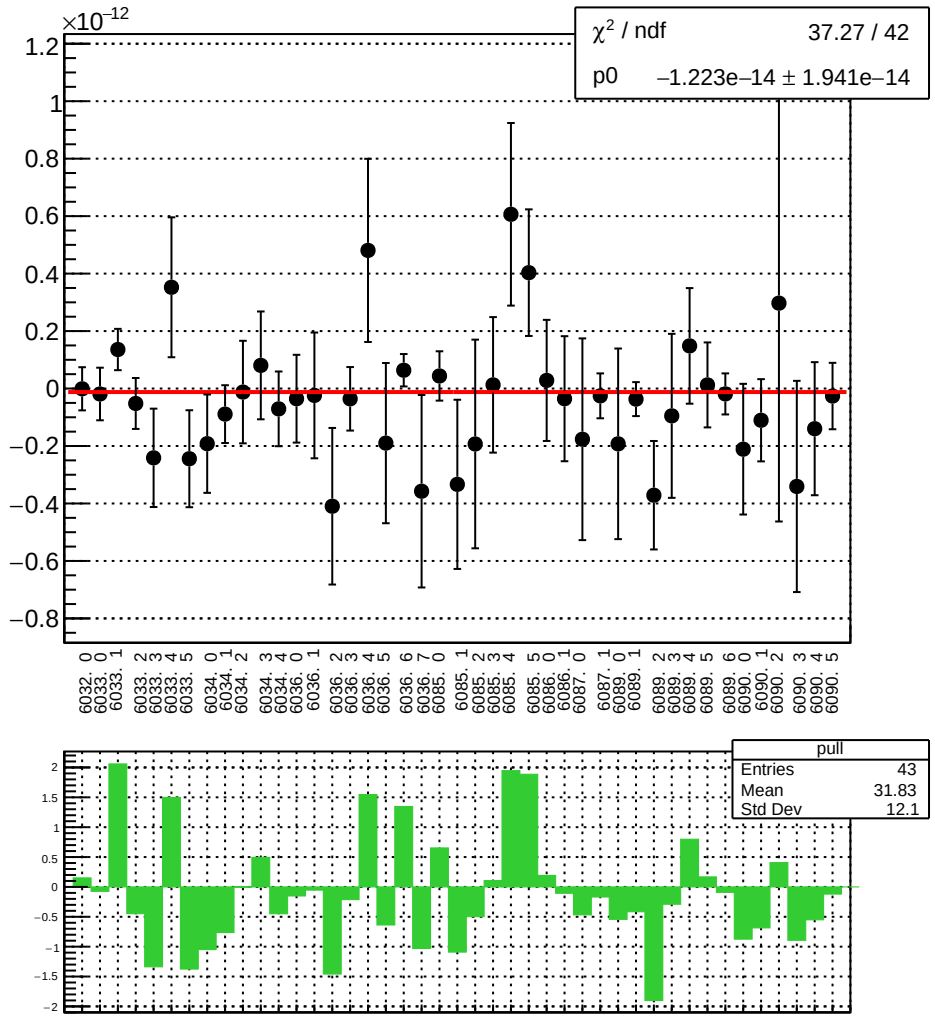

pull1D
Entries 43
Mean 0.02093
Std Dev 1.005

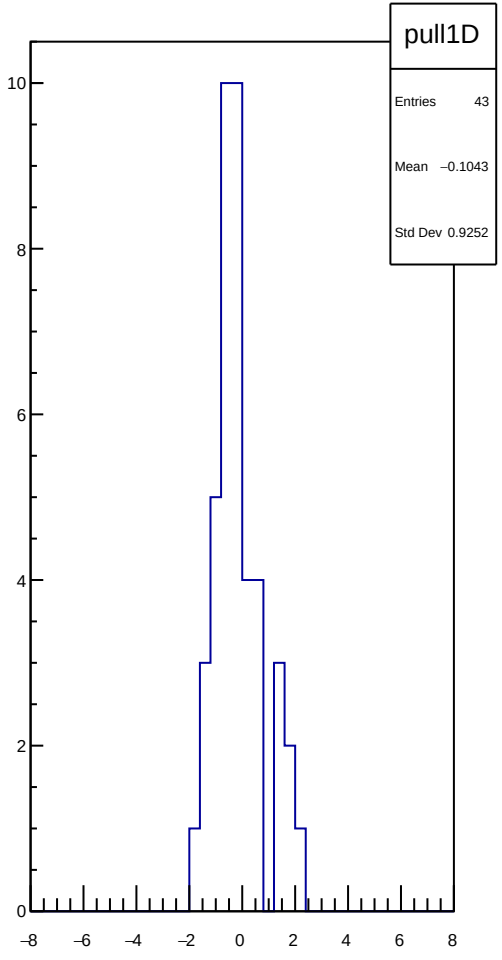

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 42
p0 23.2 ± 0.02499
34
32
30
28
26
24
22
20
18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

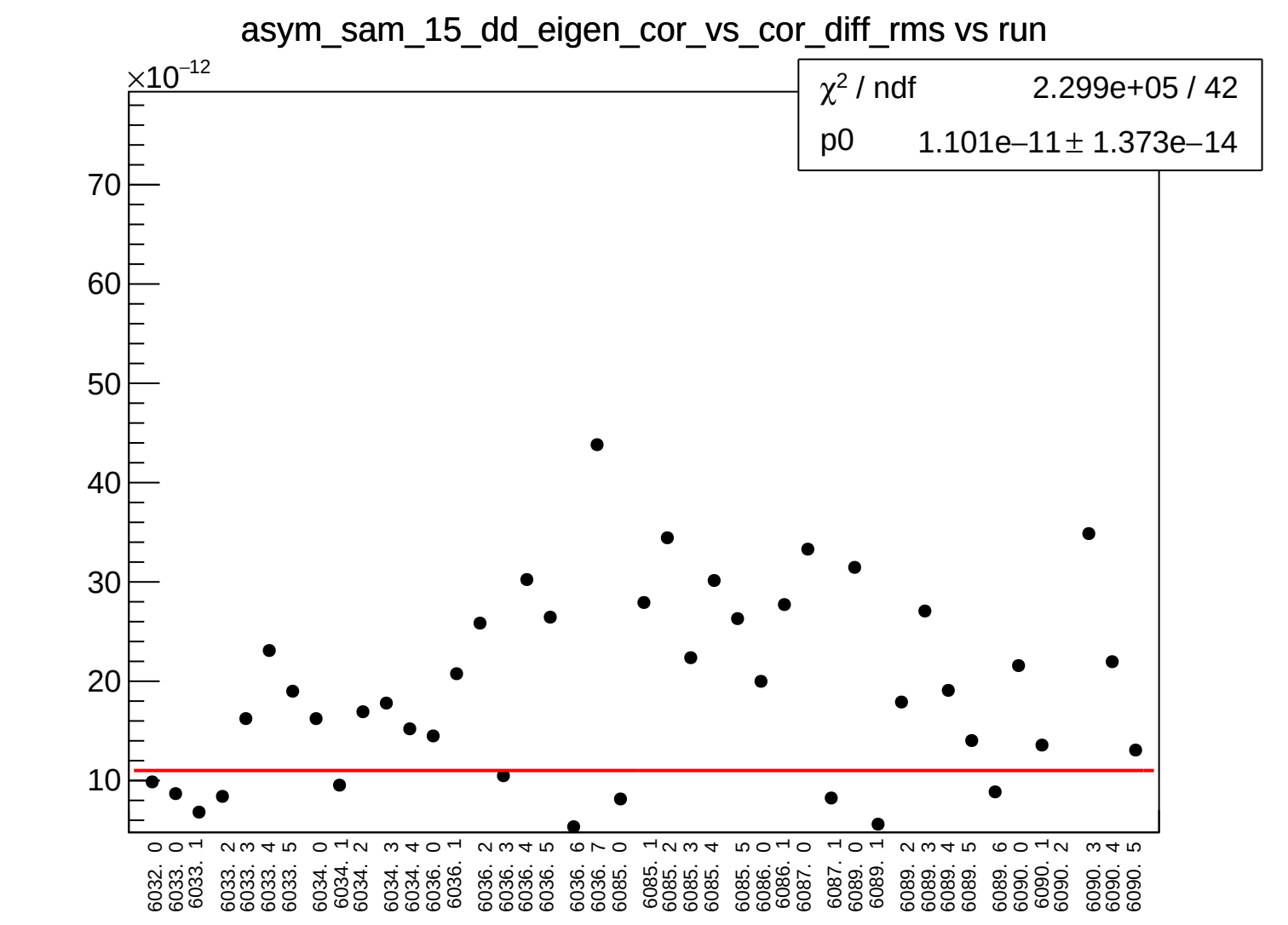

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.49 / 42
p0 0.06951 ± 0.03534
pull
Entries 43
Mean −40.13
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

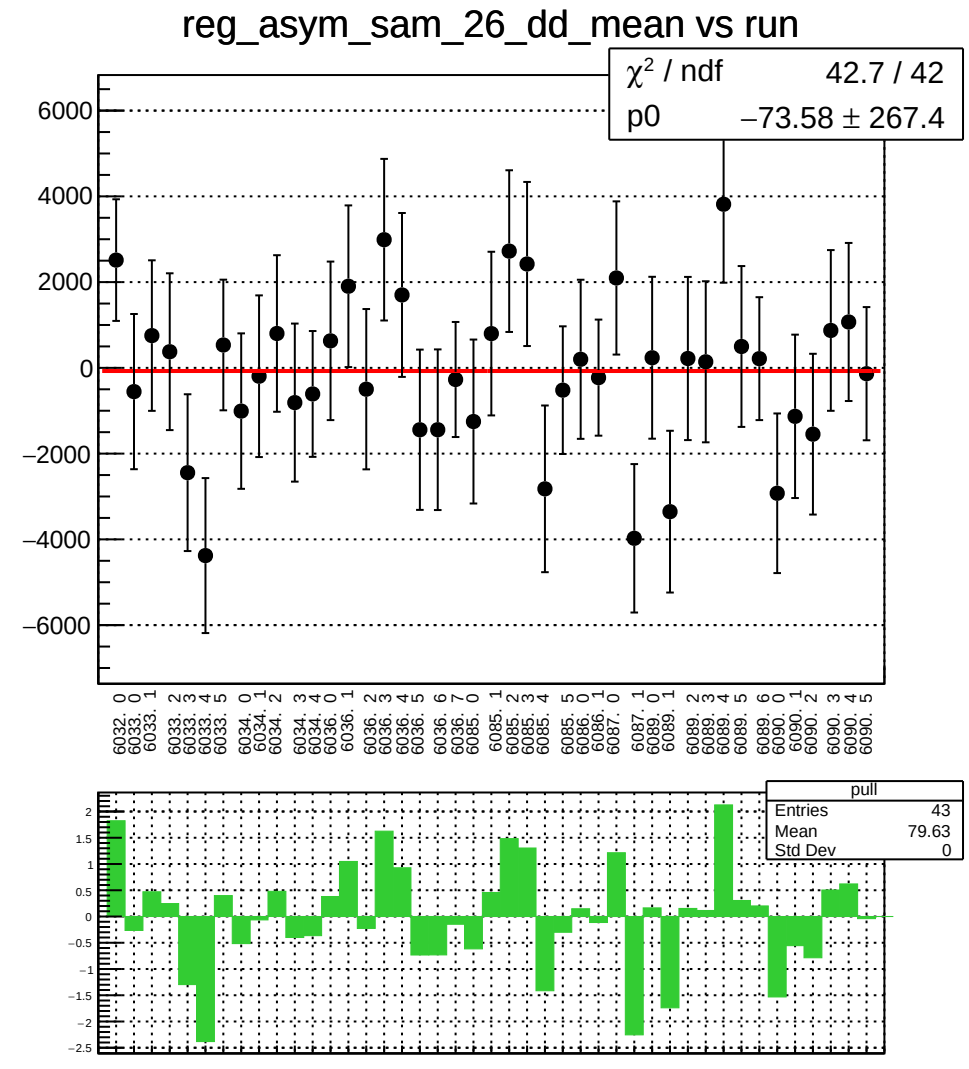

pull1D
Entries 43
Mean 0.02093
Std Dev 1.005

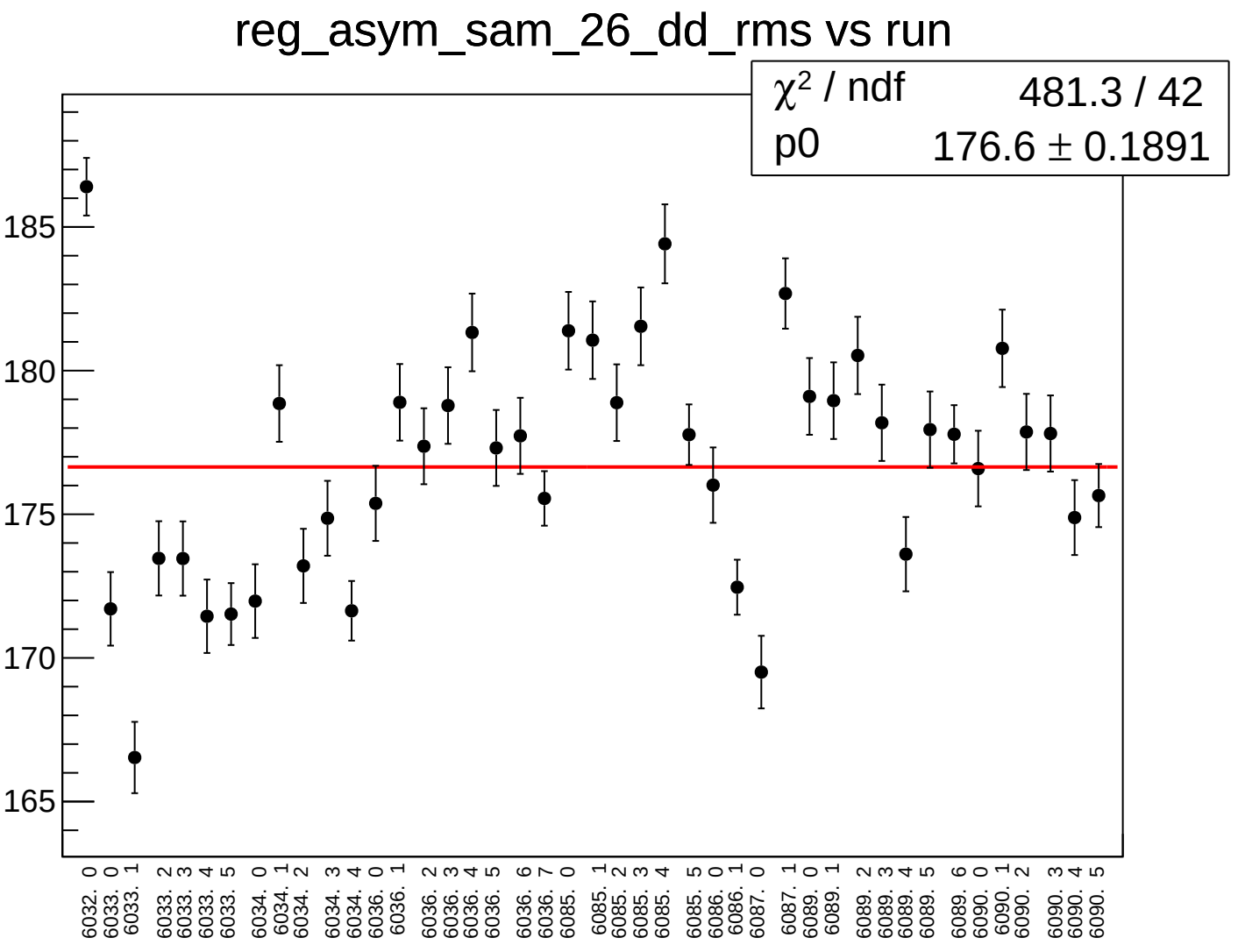

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+04 / 42
p0 23.2 ± 0.02499
34
32
30
28
26
24
22
20
18
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

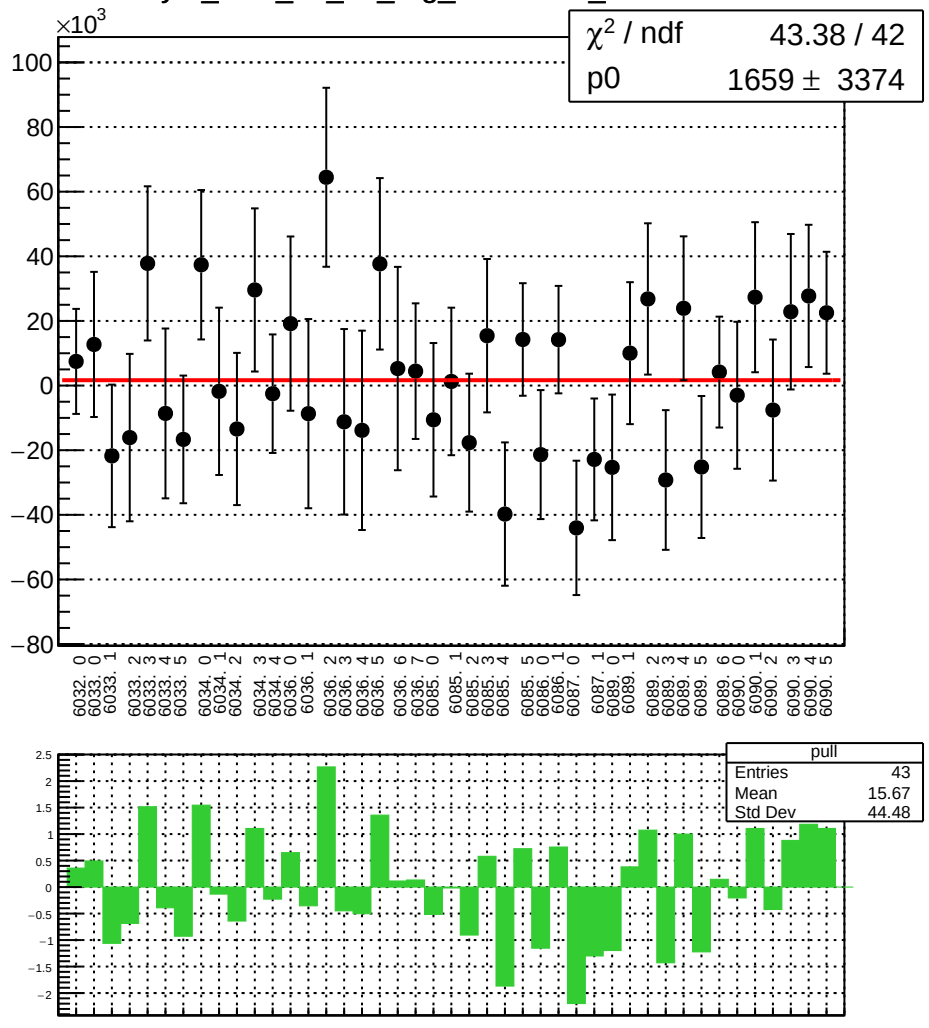

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 37.27 / 42
p0 −1.223e−14 ± 1.941e−14
pull
Entries 43
Mean 31.83
Std Dev 12.1

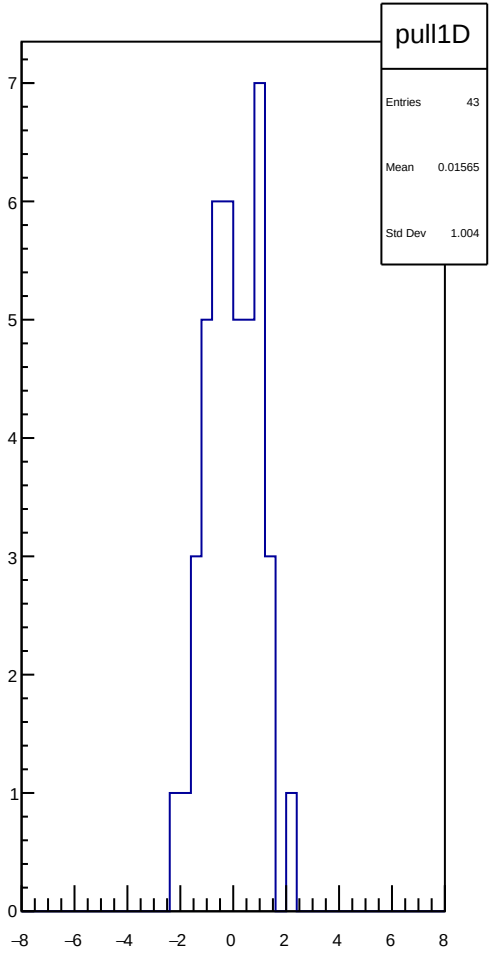

pull1D
Entries 43
Mean −0.1043
Std Dev 0.9252

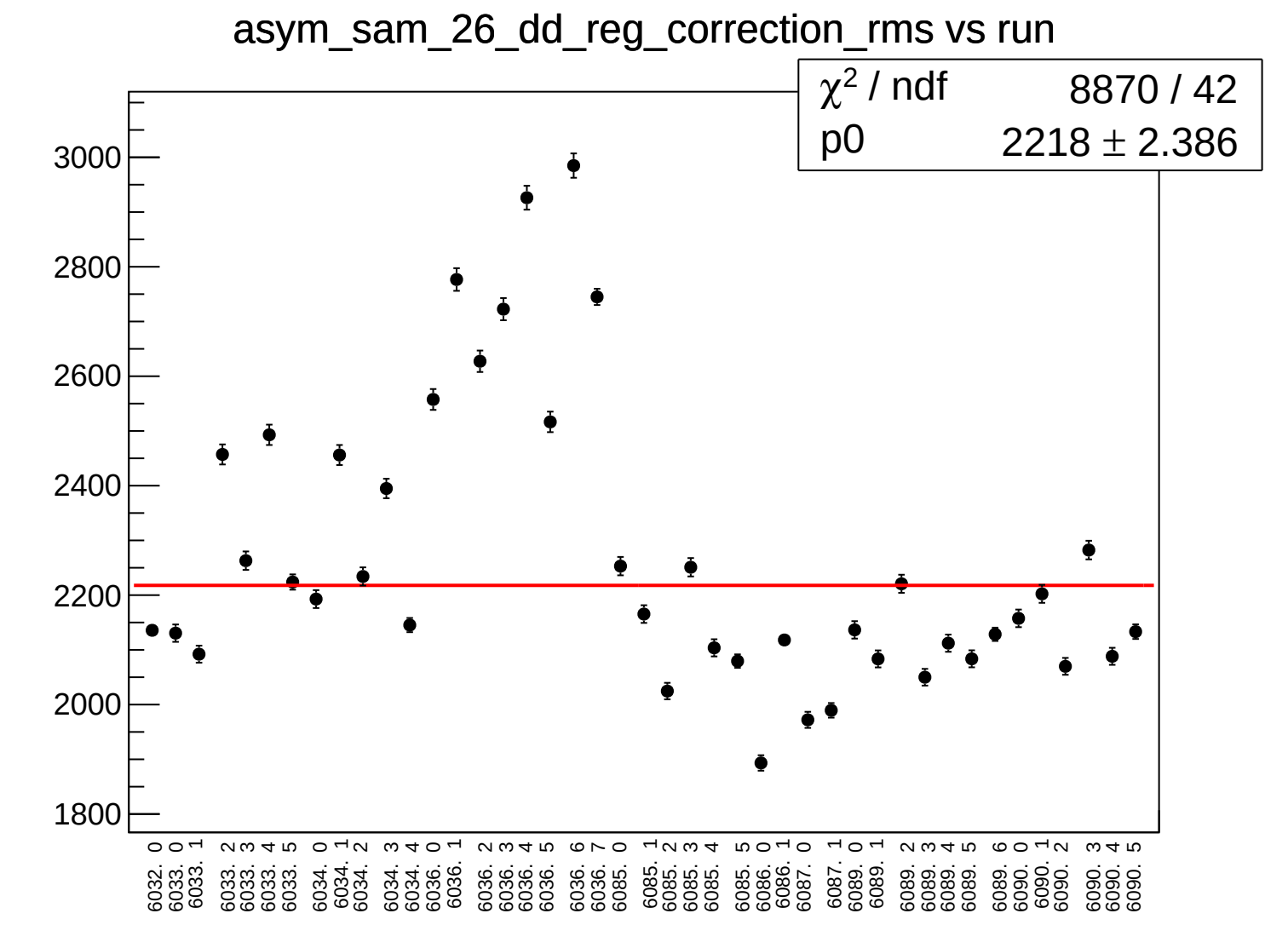

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 2.299e+05 / 42
p0 1.101e−11 ± 1.373e−14
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

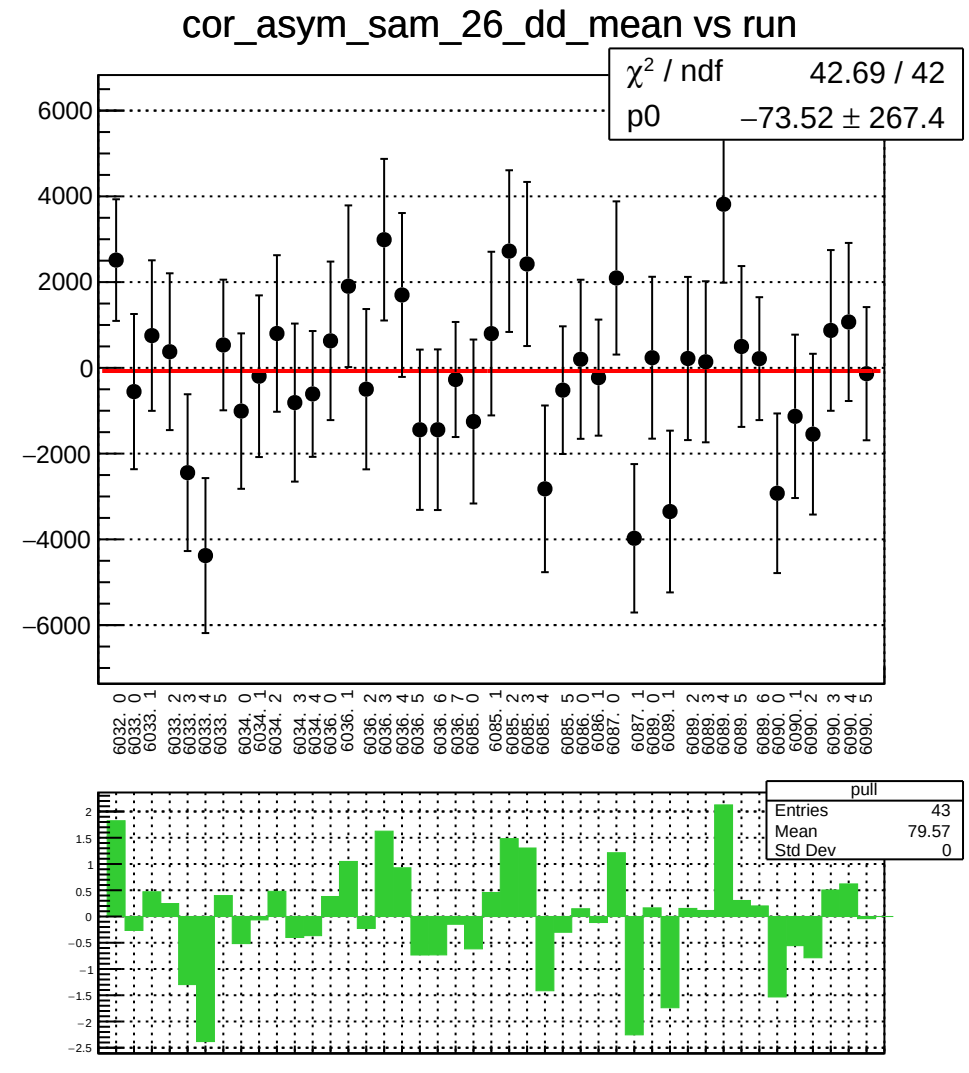

reg_asym_sam_26_dd_mean vs run
χ² / ndf 42.7 / 42
p0 −73.58 ± 267.4
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 79.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.00645
Std Dev 0.9965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

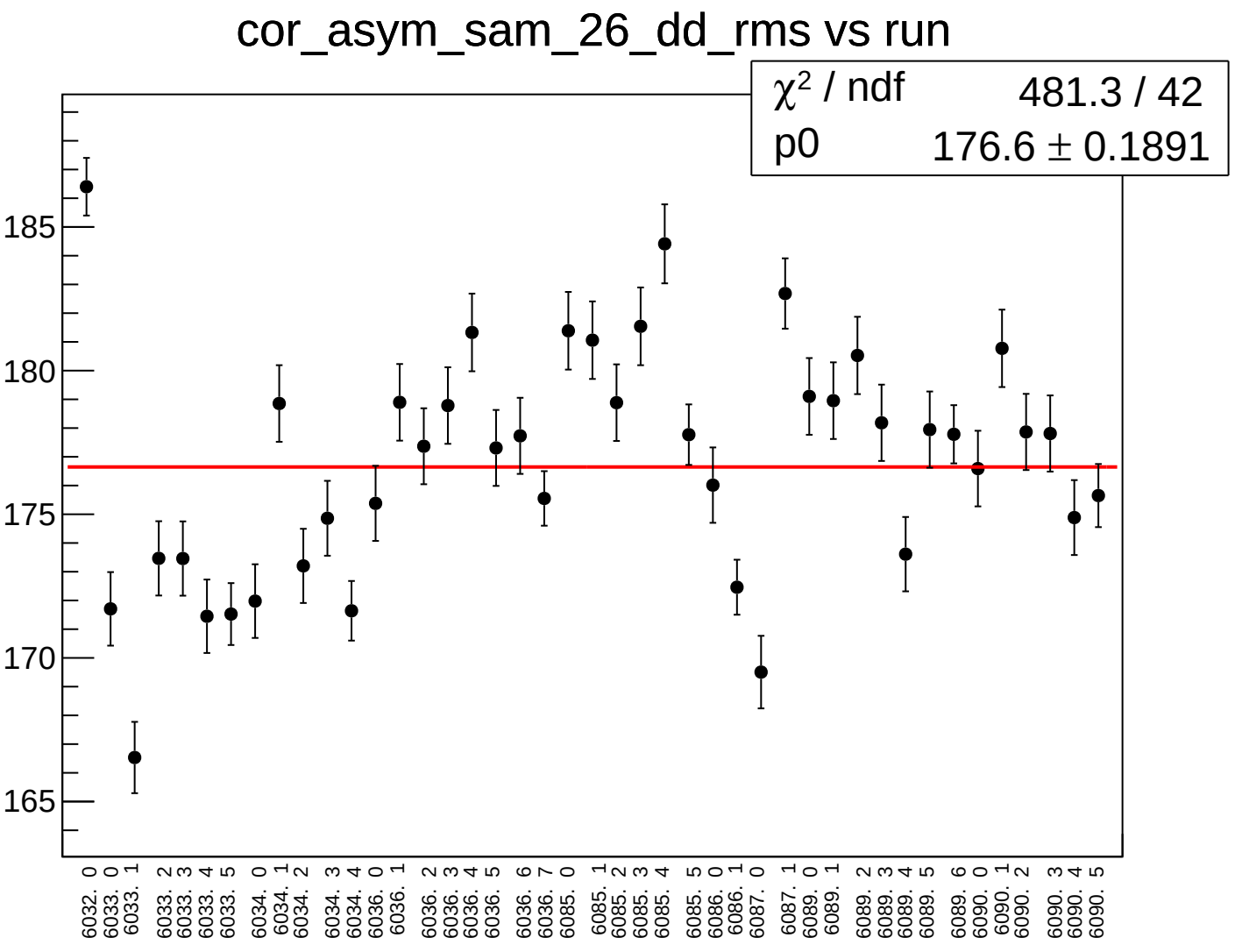

reg_asym_sam_26_dd_rms vs run
χ² / ndf 481.3 / 42
p0 176.6 ± 0.1891
185
180
175
170
165
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

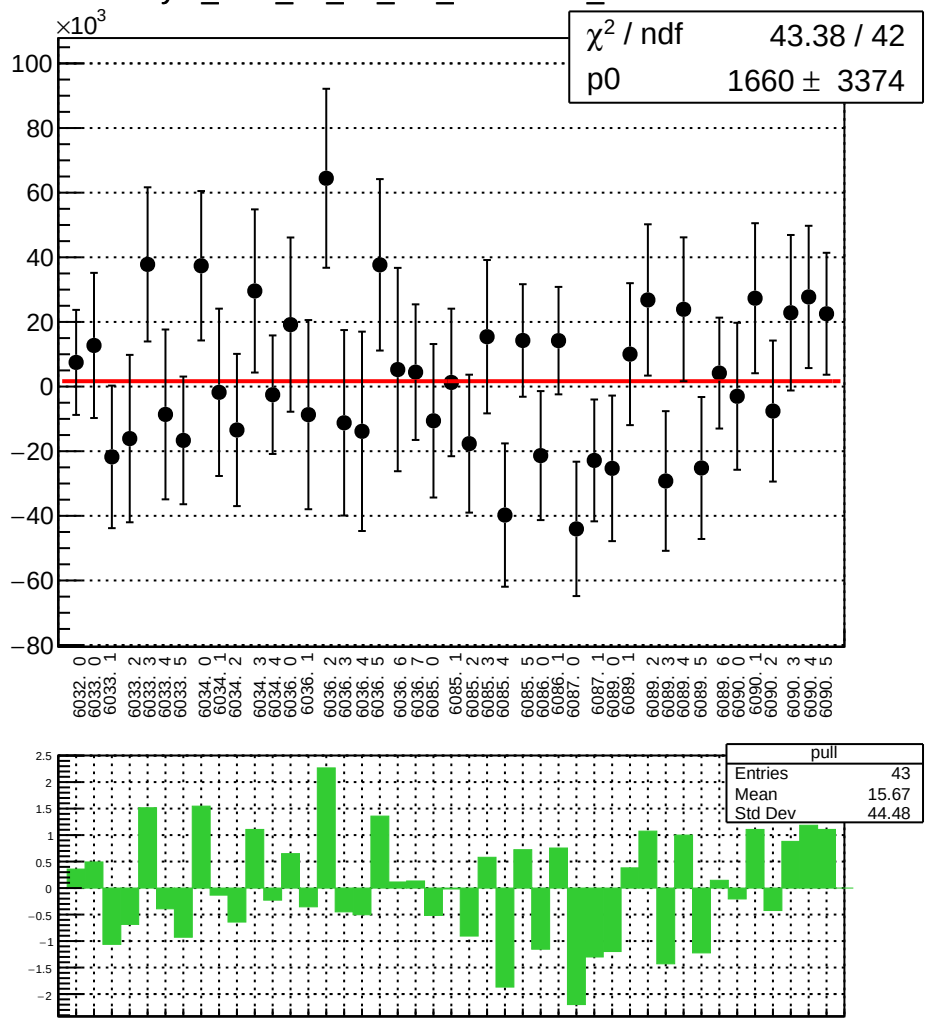

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 43.38 / 42
p0 1659 ± 3374
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.67
Std Dev 44.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

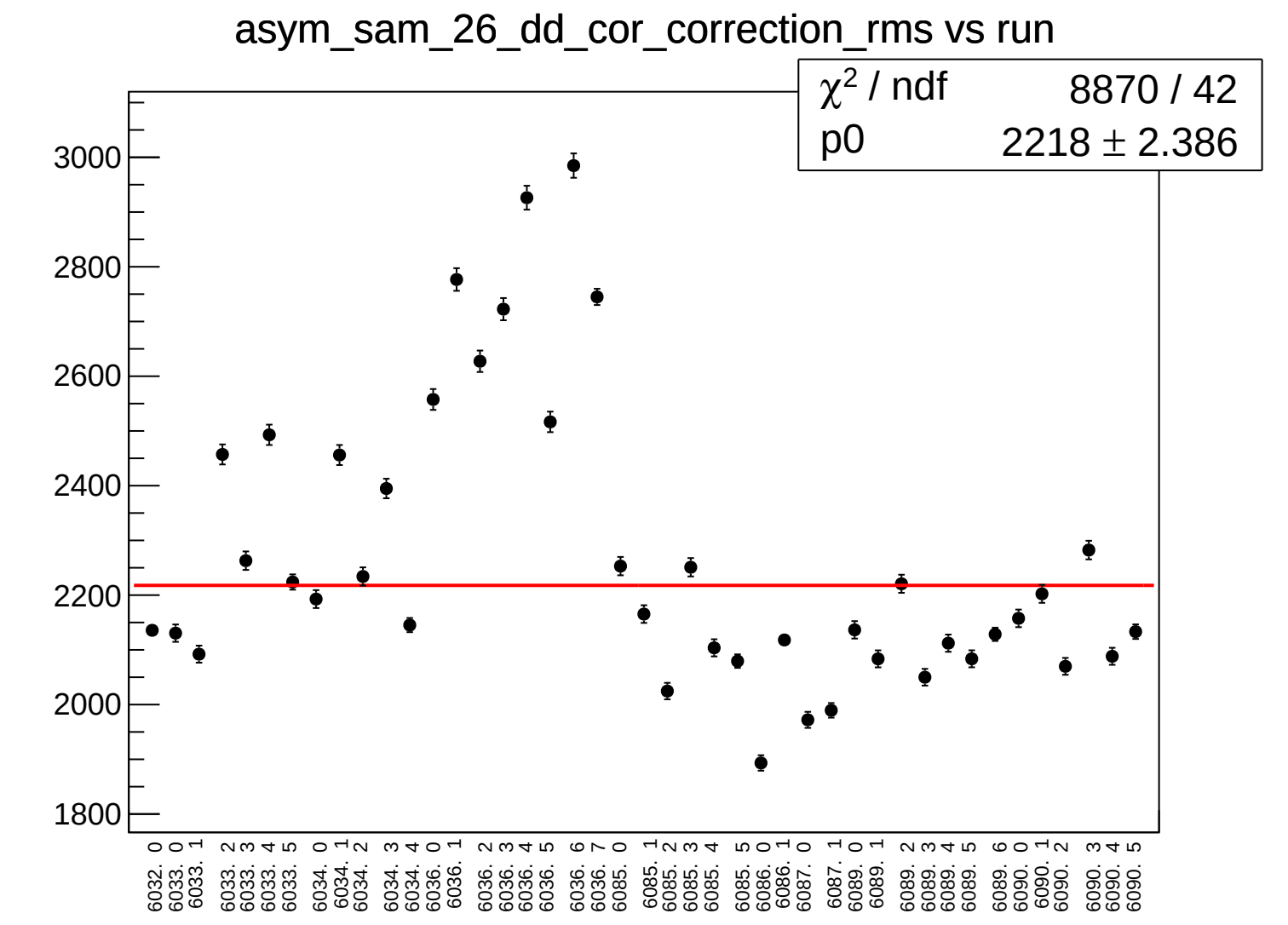

pull1D
Entries 43
Mean 0.01565
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

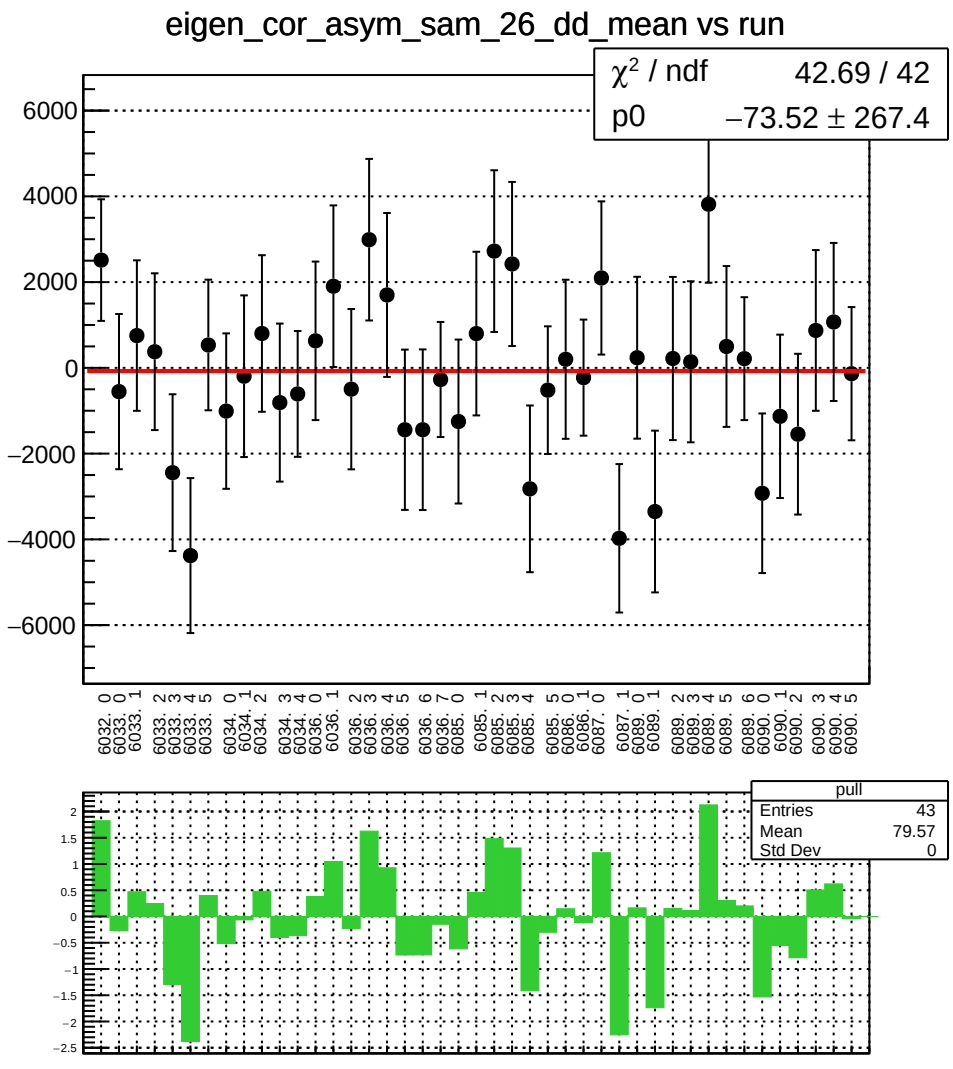

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 8870 / 42
p0 2218 ± 2.386
3000
2800
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

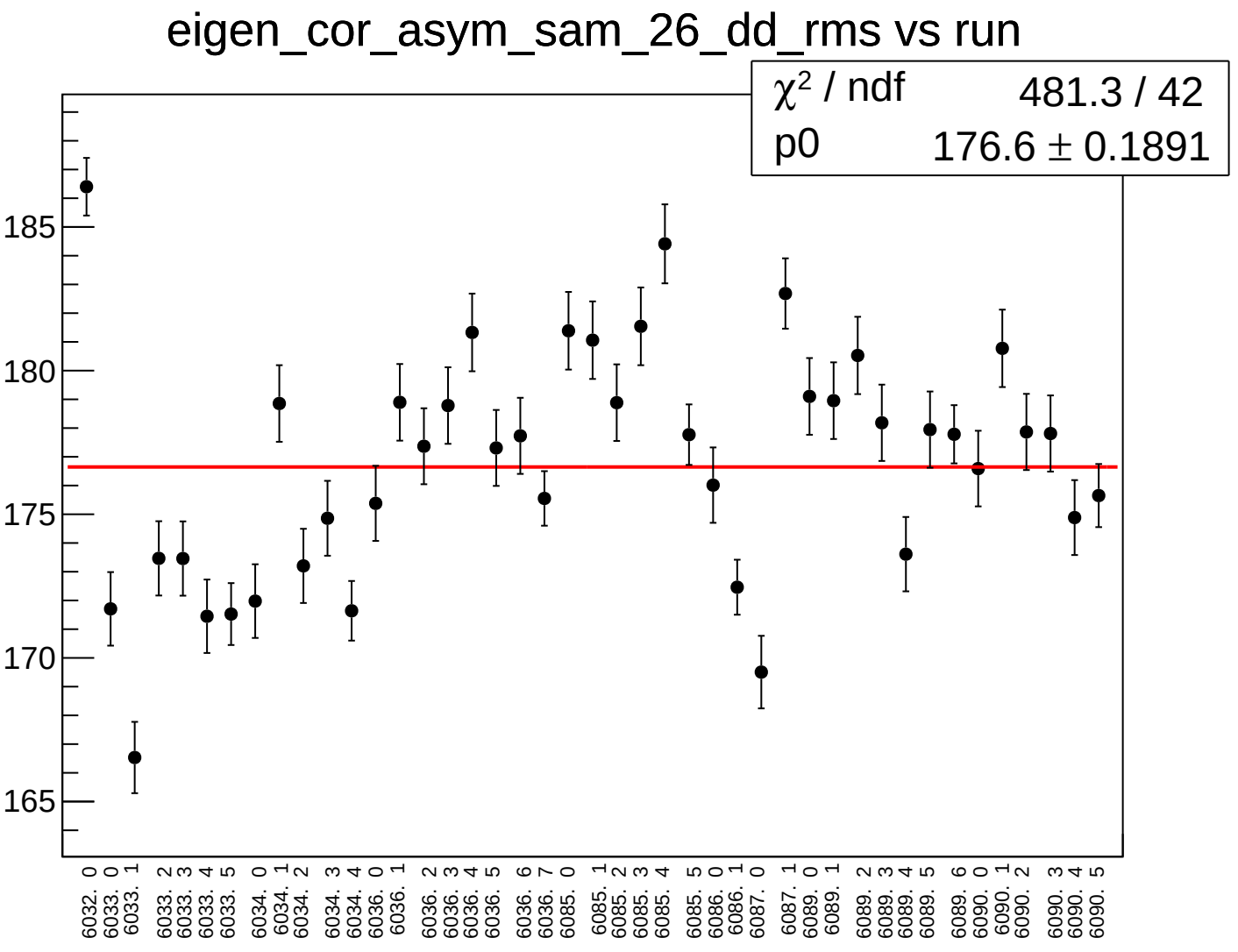

cor_asym_sam_26_dd_mean vs run
χ² / ndf 42.69 / 42
p0 −73.52 ± 267.4
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 79.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.006447
Std Dev 0.9964
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

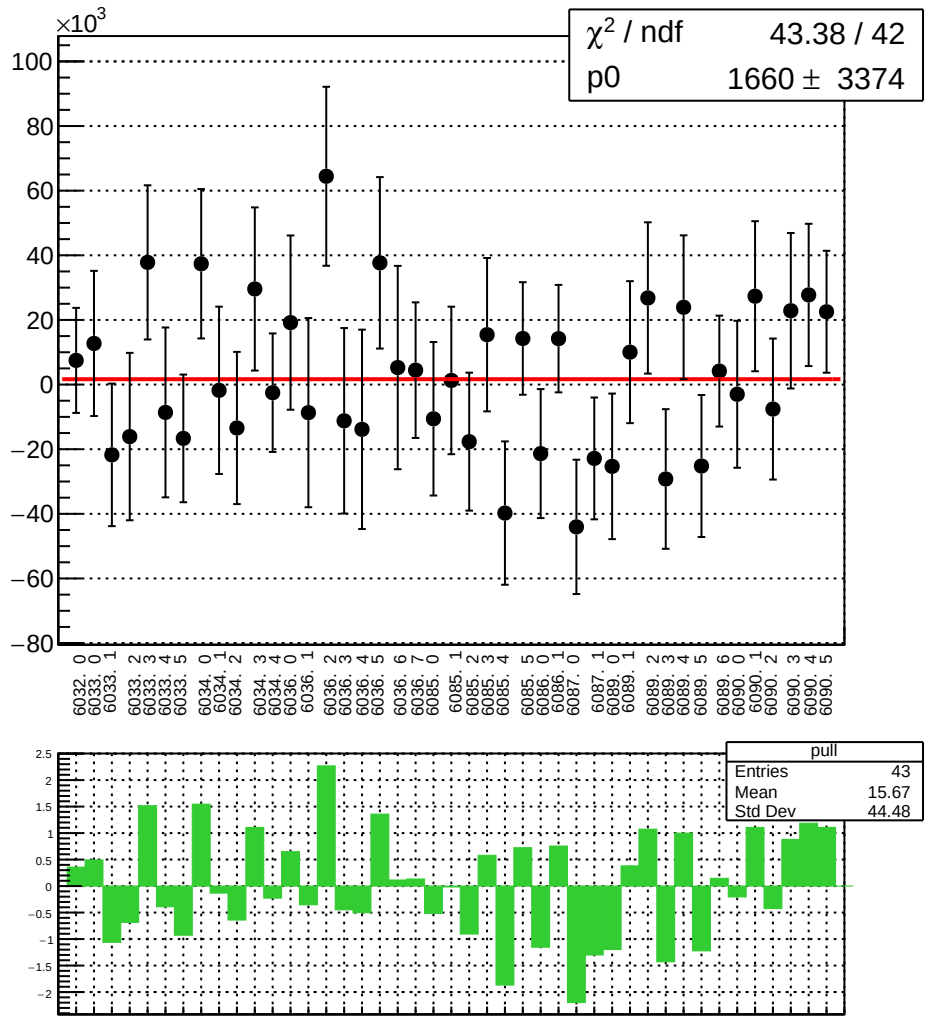

cor_asym_sam_26_dd_rms vs run
χ² / ndf 481.3 / 42
p0 176.6 ± 0.1891
185
180
175
170
165
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

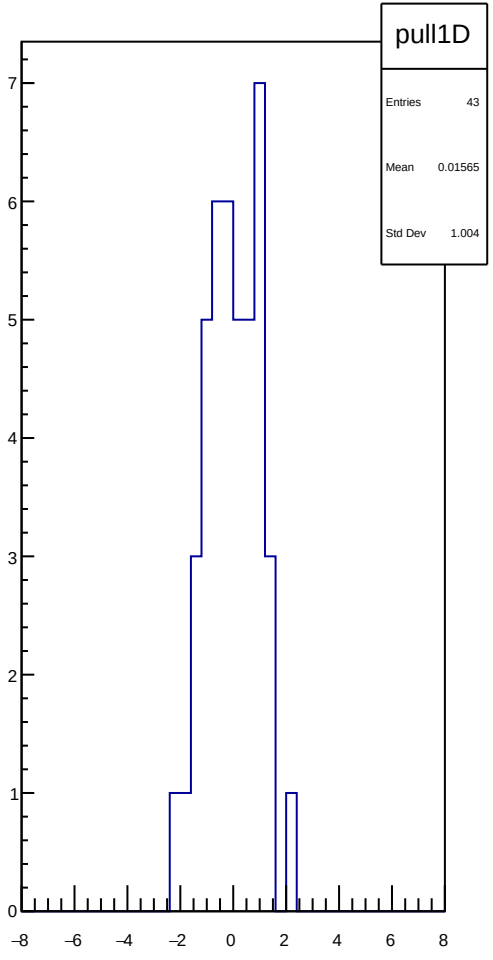

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 43.38 / 42
p0 1660 ± 3374
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.67
Std Dev 44.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01565
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

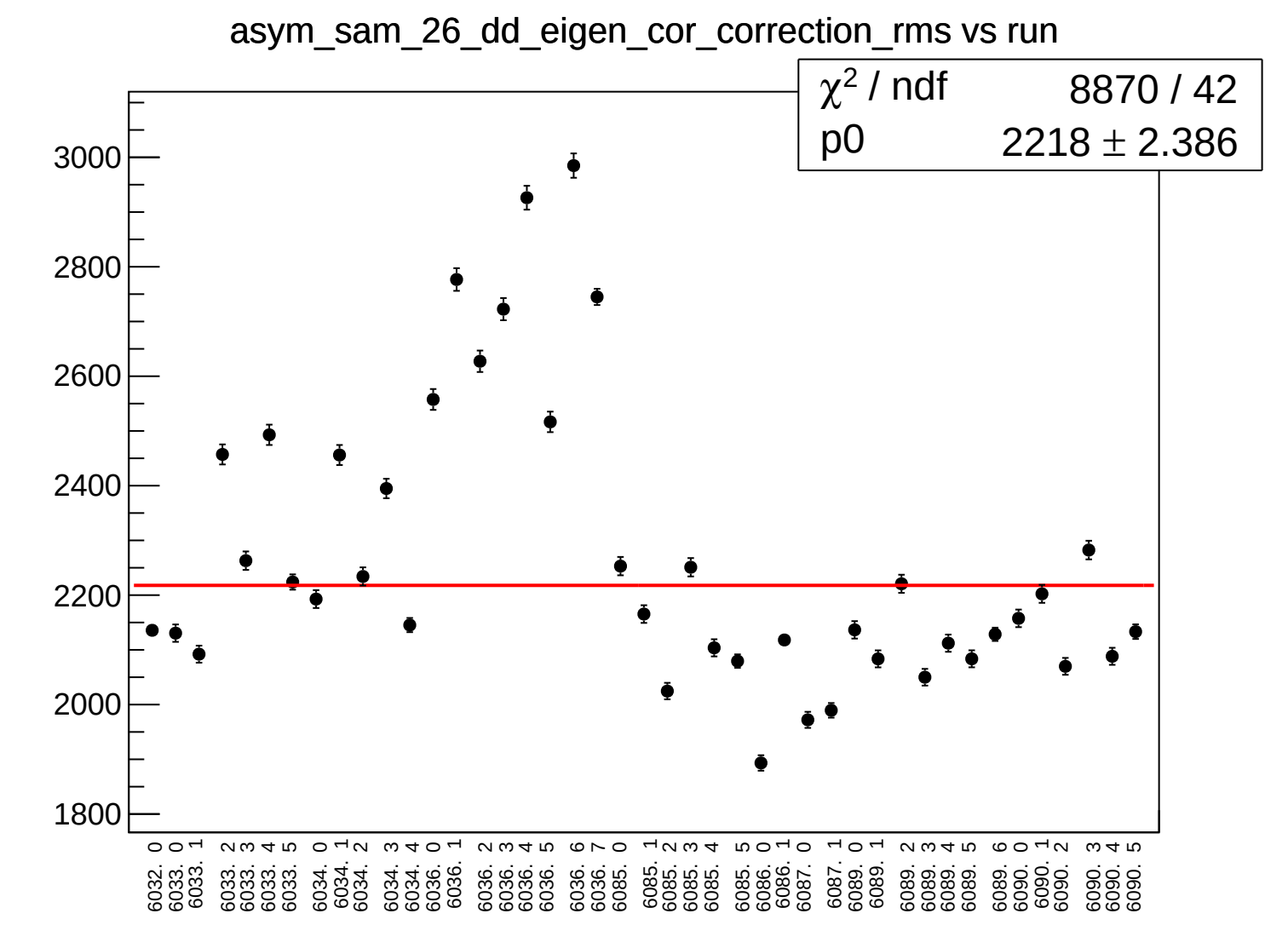

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 8870 / 42
p0 2218 ± 2.386
3000
2800
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

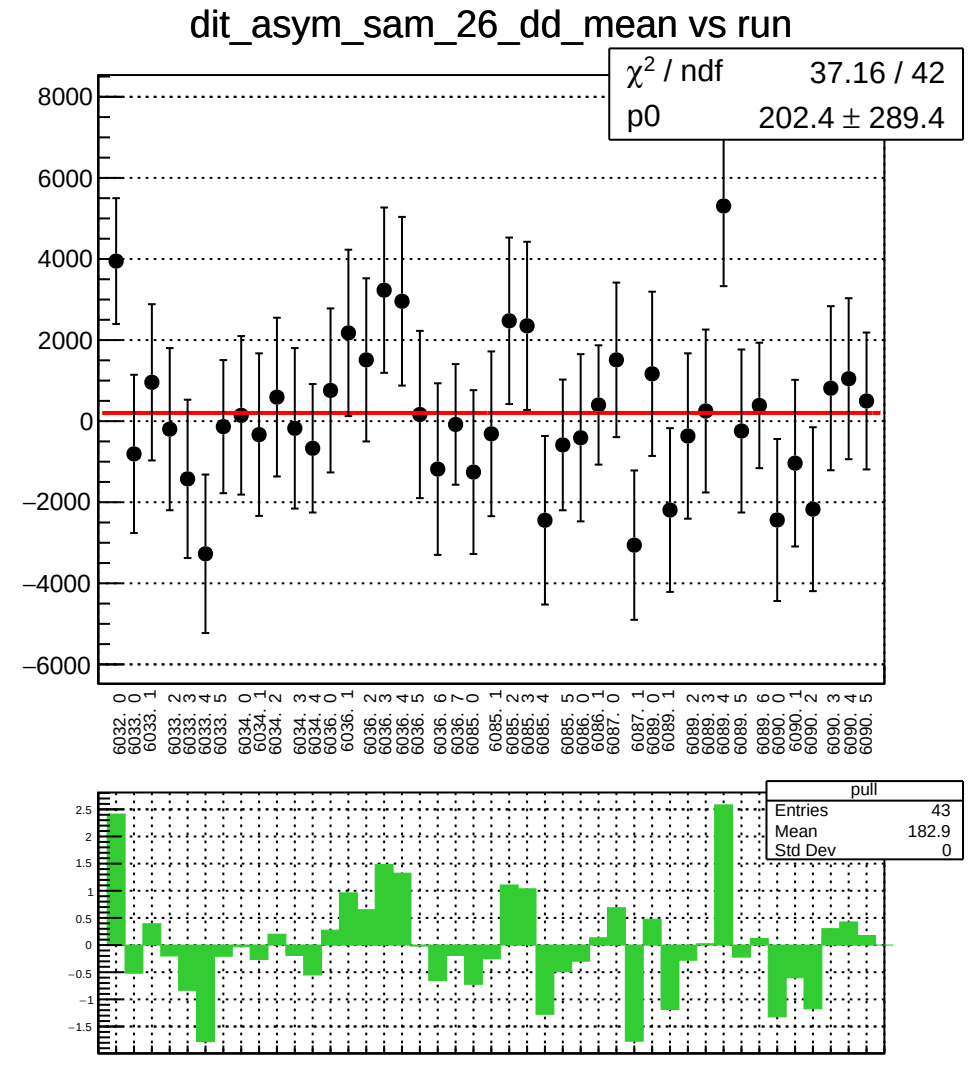

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 42.69 / 42
p0 −73.52 ± 267.4
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 79.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.006447
Std Dev 0.9964
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

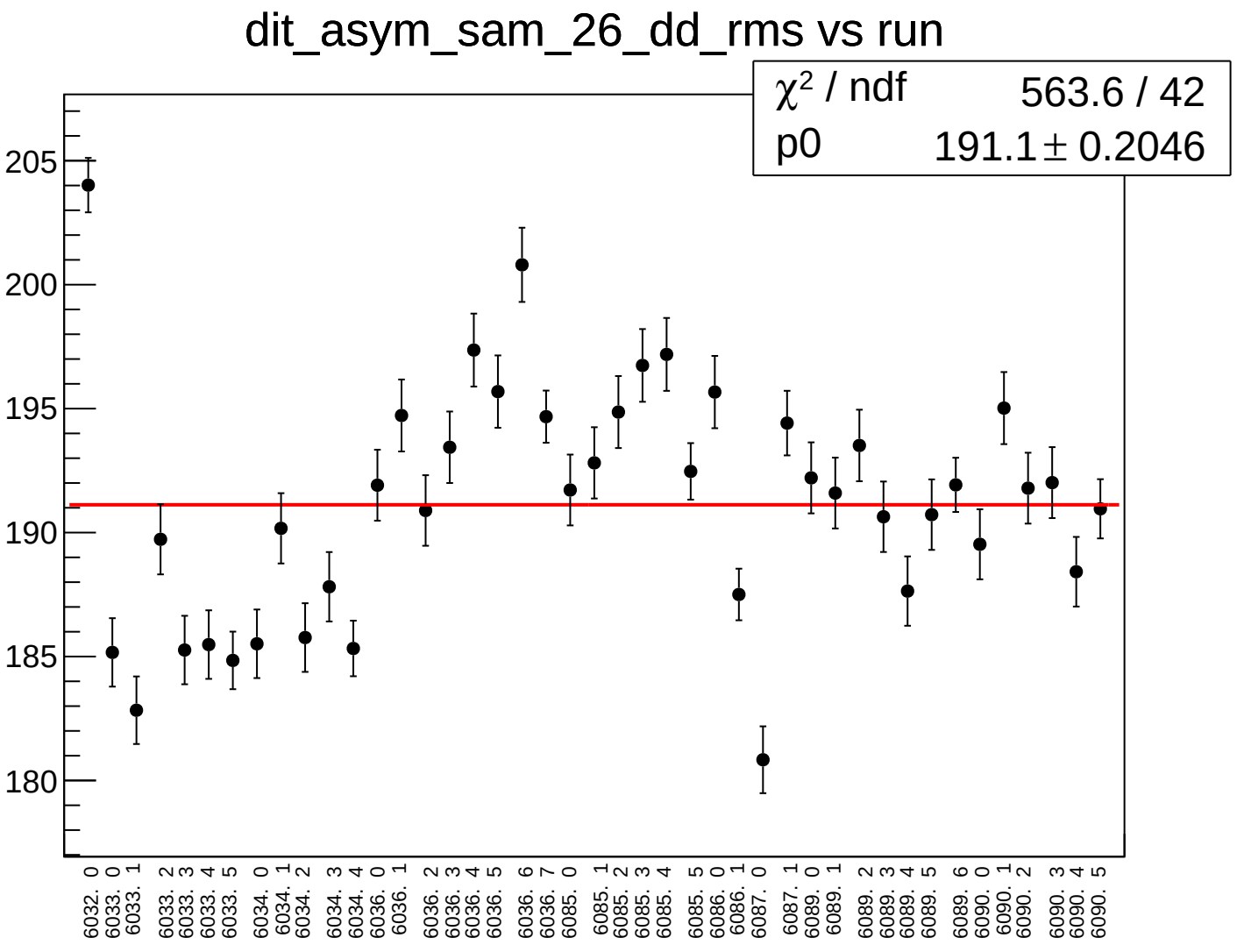

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 481.3 / 42
p0 176.6 ± 0.1891
185
180
175
170
165
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

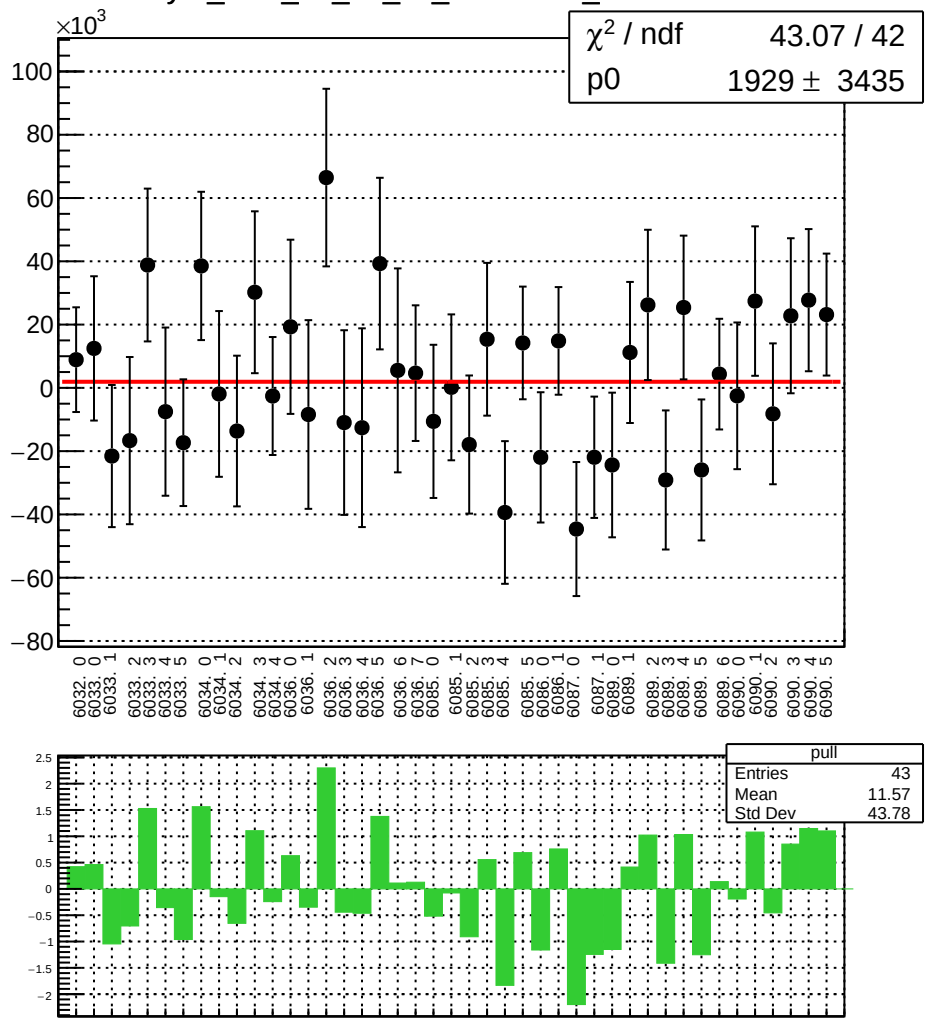

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 43.38 / 42
p0 1660 ± 3374
100
80
60
40
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.67
Std Dev 44.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

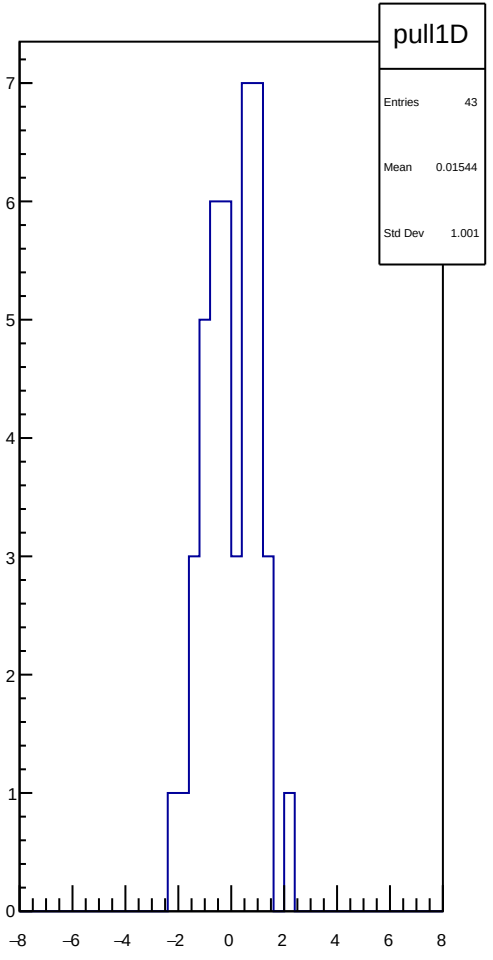

pull1D
Entries 43
Mean 0.01565
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

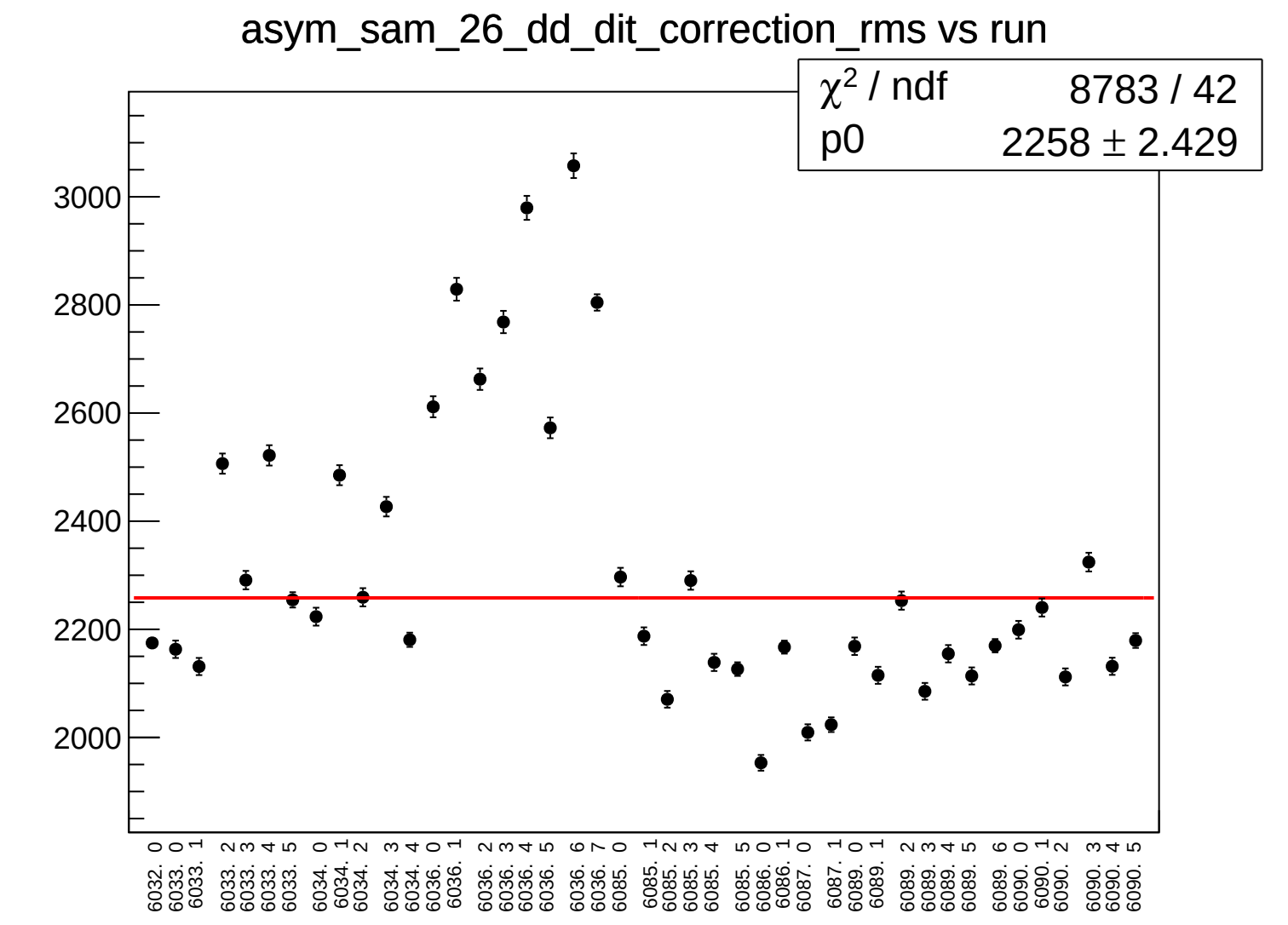

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8870 / 42
p0 2218 ± 2.386
3000
2800
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

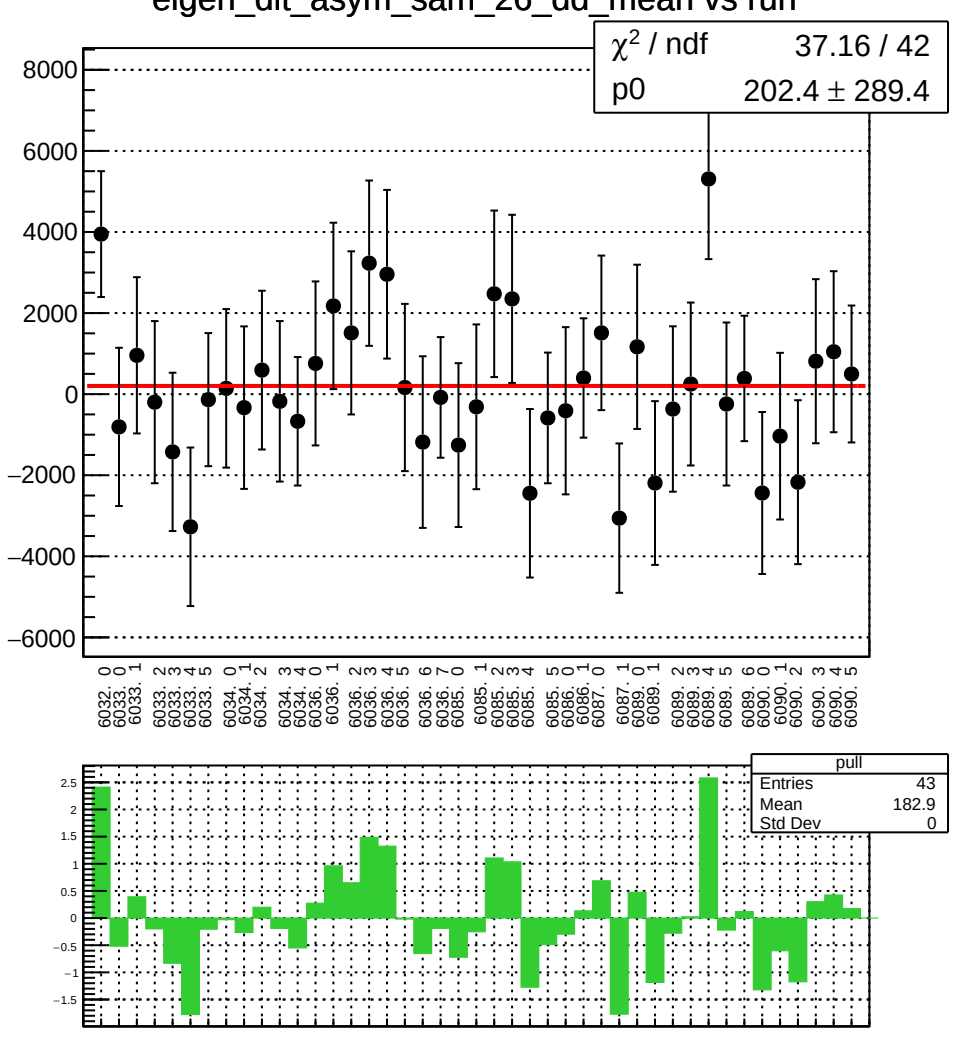

dit_asym_sam_26_dd_mean vs run
χ² / ndf 37.16 / 42
p0 202.4 ± 289.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 182.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.006032
Std Dev 0.9296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

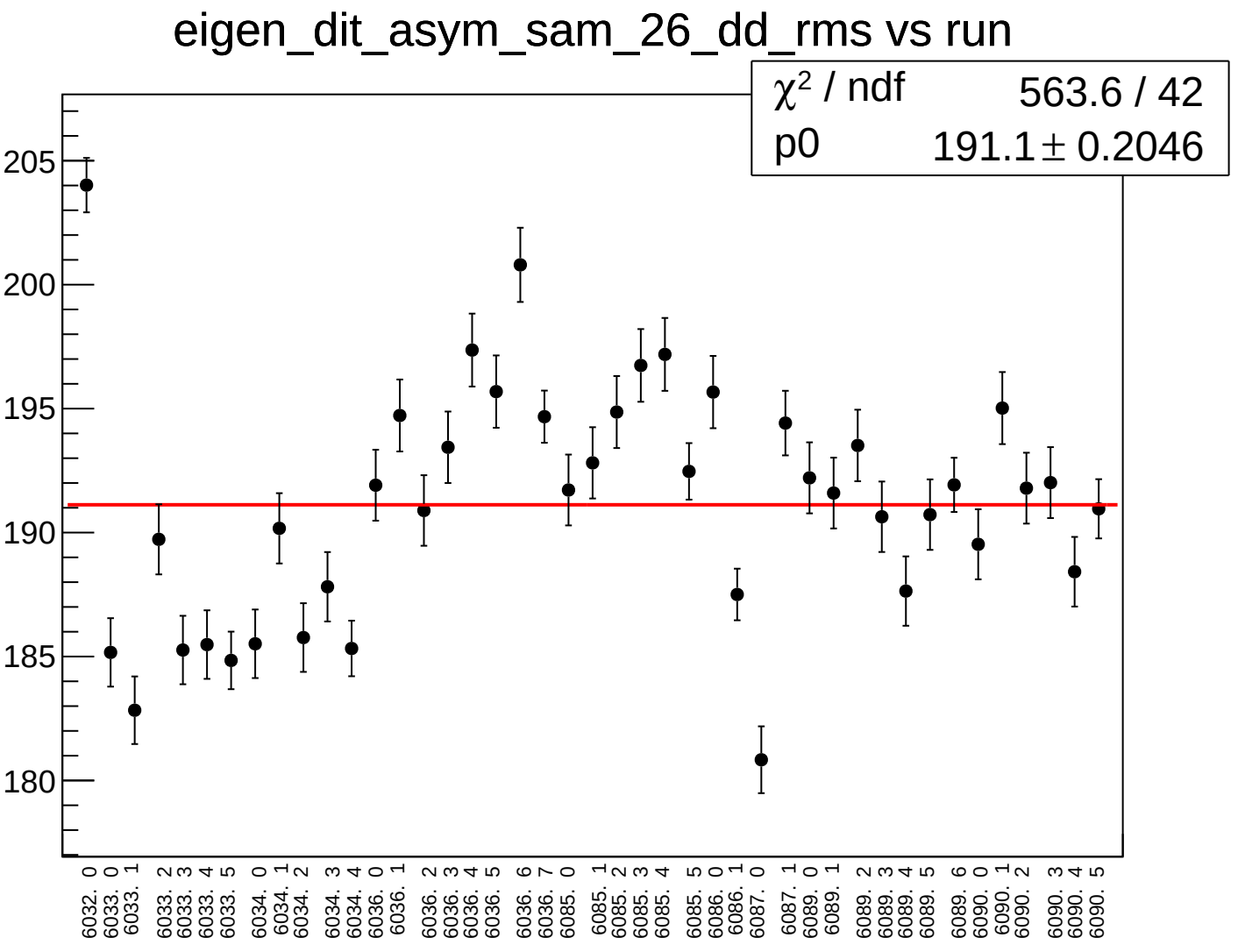

dit_asym_sam_26_dd_rms vs run
χ² / ndf 563.6 / 42
p0 191.1 ± 0.2046
205
200
195
190
185
180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

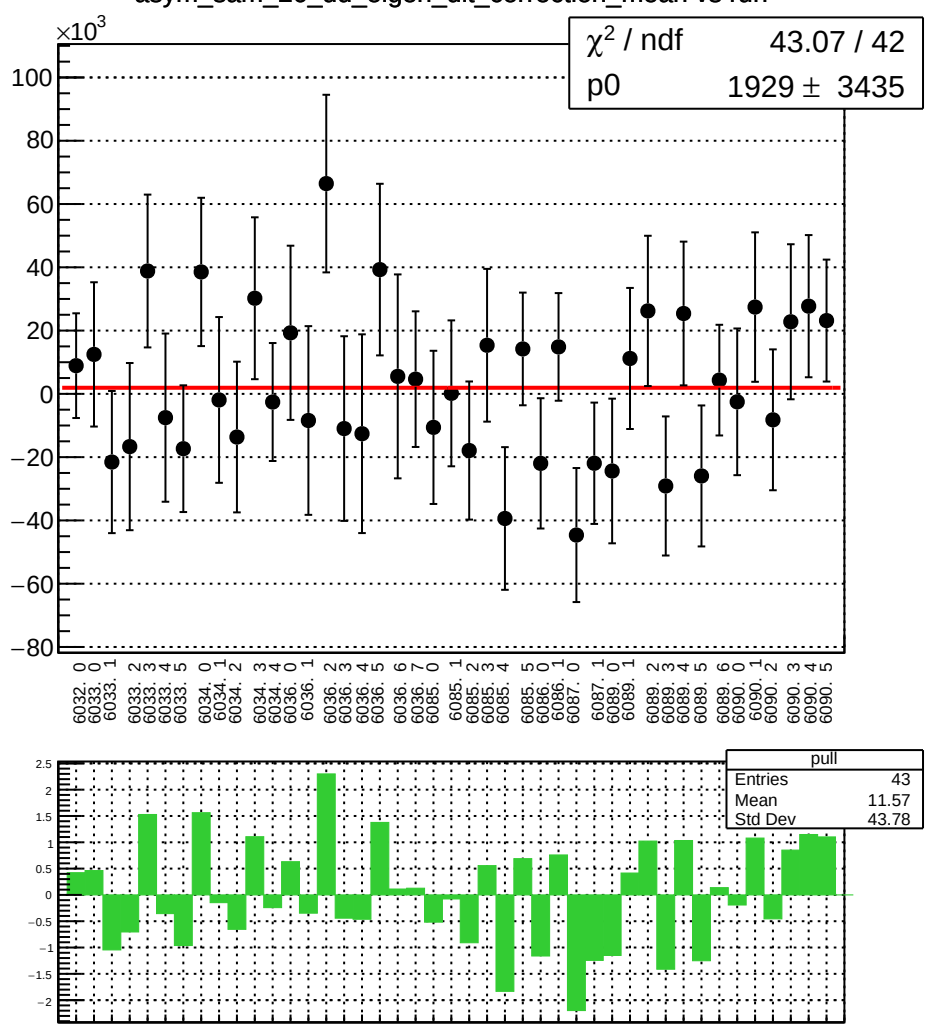

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 43.07 / 42
p0 1929 ± 3435
pull
Entries 43
Mean 11.57
Std Dev 43.78

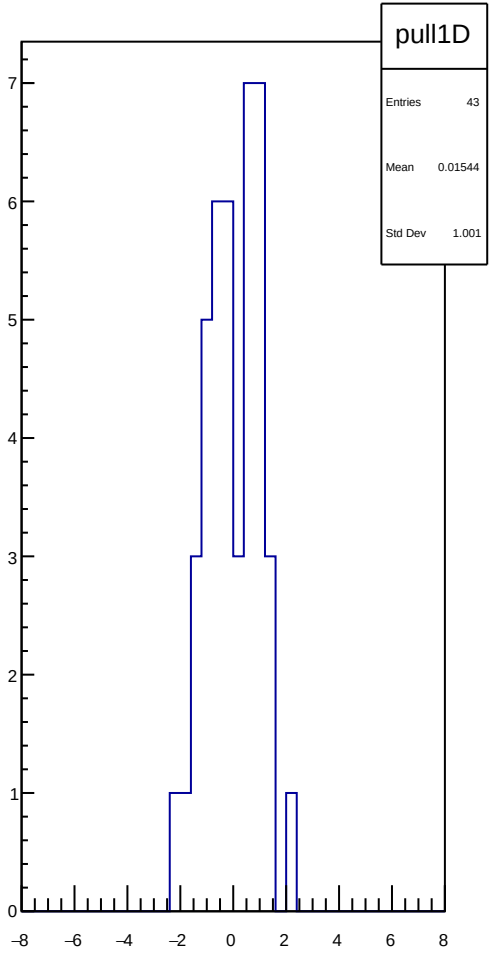

pull1D
Entries 43
Mean 0.01544
Std Dev 1.001

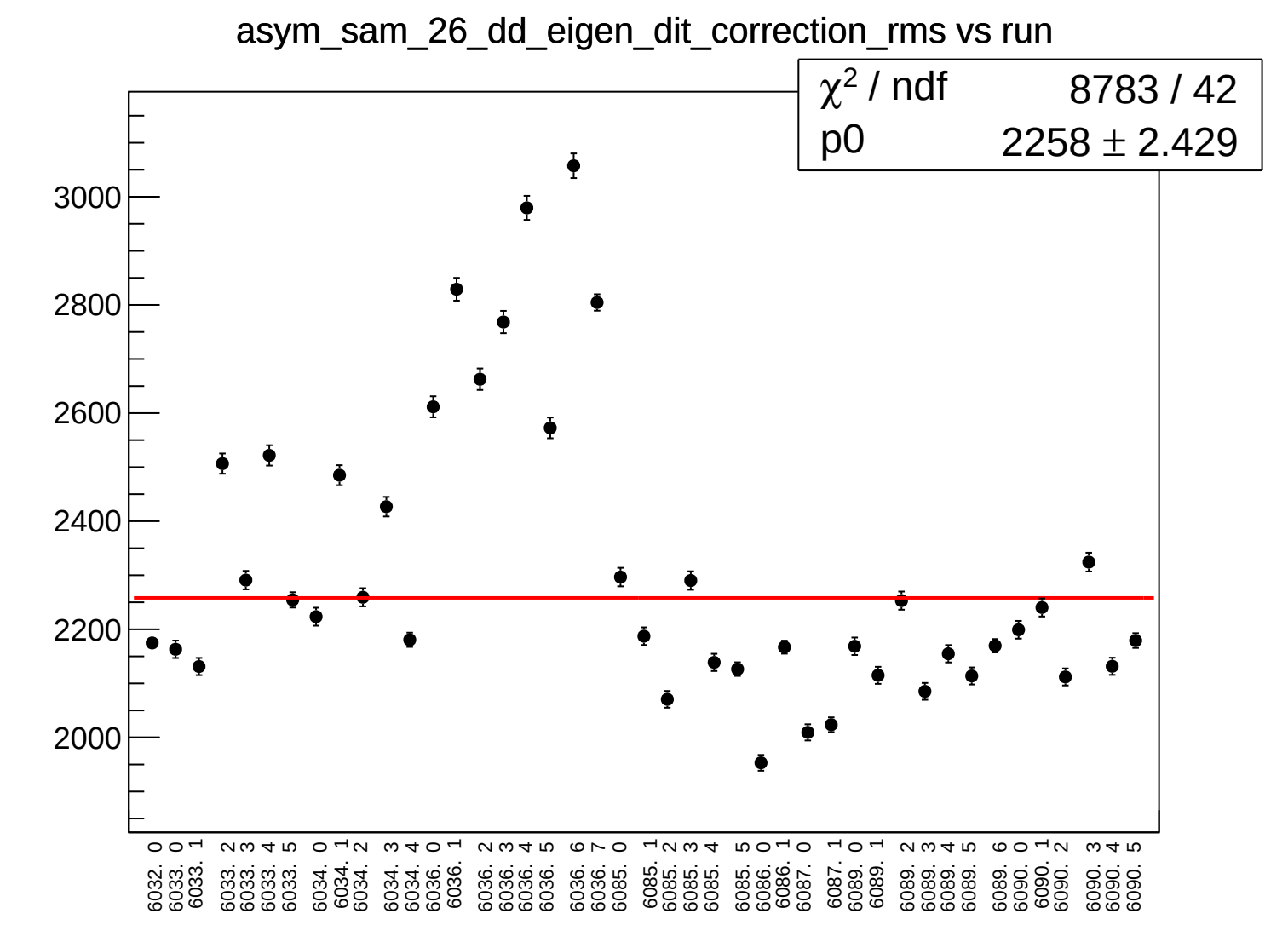

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 8783 / 42
p0 2258 ± 2.429
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

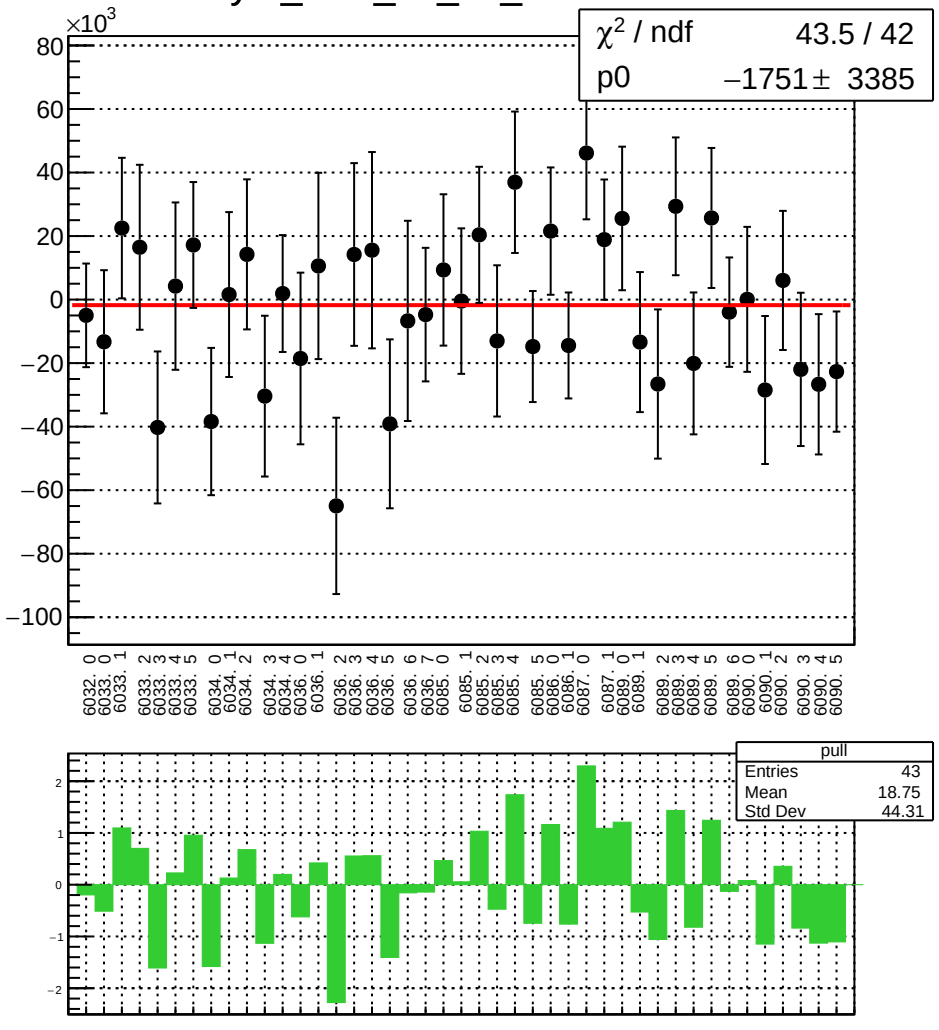

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 37.16 / 42
p0 202.4 ± 289.4
8000
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 182.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.006032
Std Dev 0.9296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

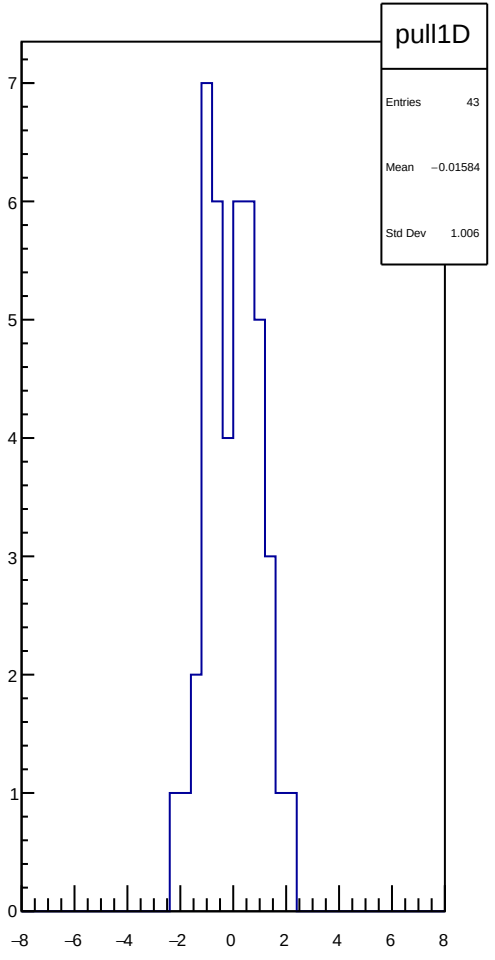

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 563.6 / 42
p0 191.1 ± 0.2046
205
200
195
190
185
180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

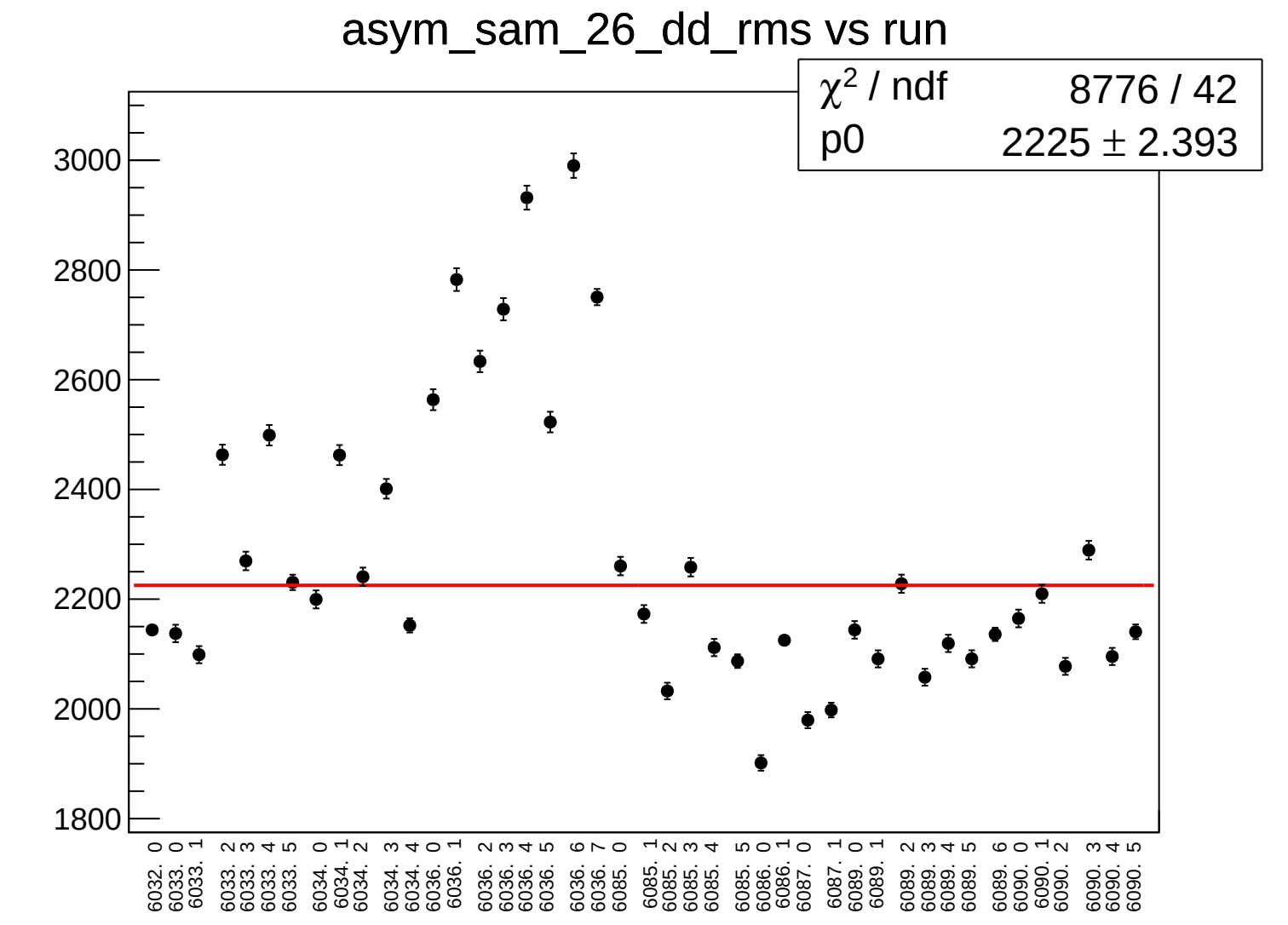

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.07 / 42
p0 1929 ± 3435
pull
Entries 43
Mean 11.57
Std Dev 43.78

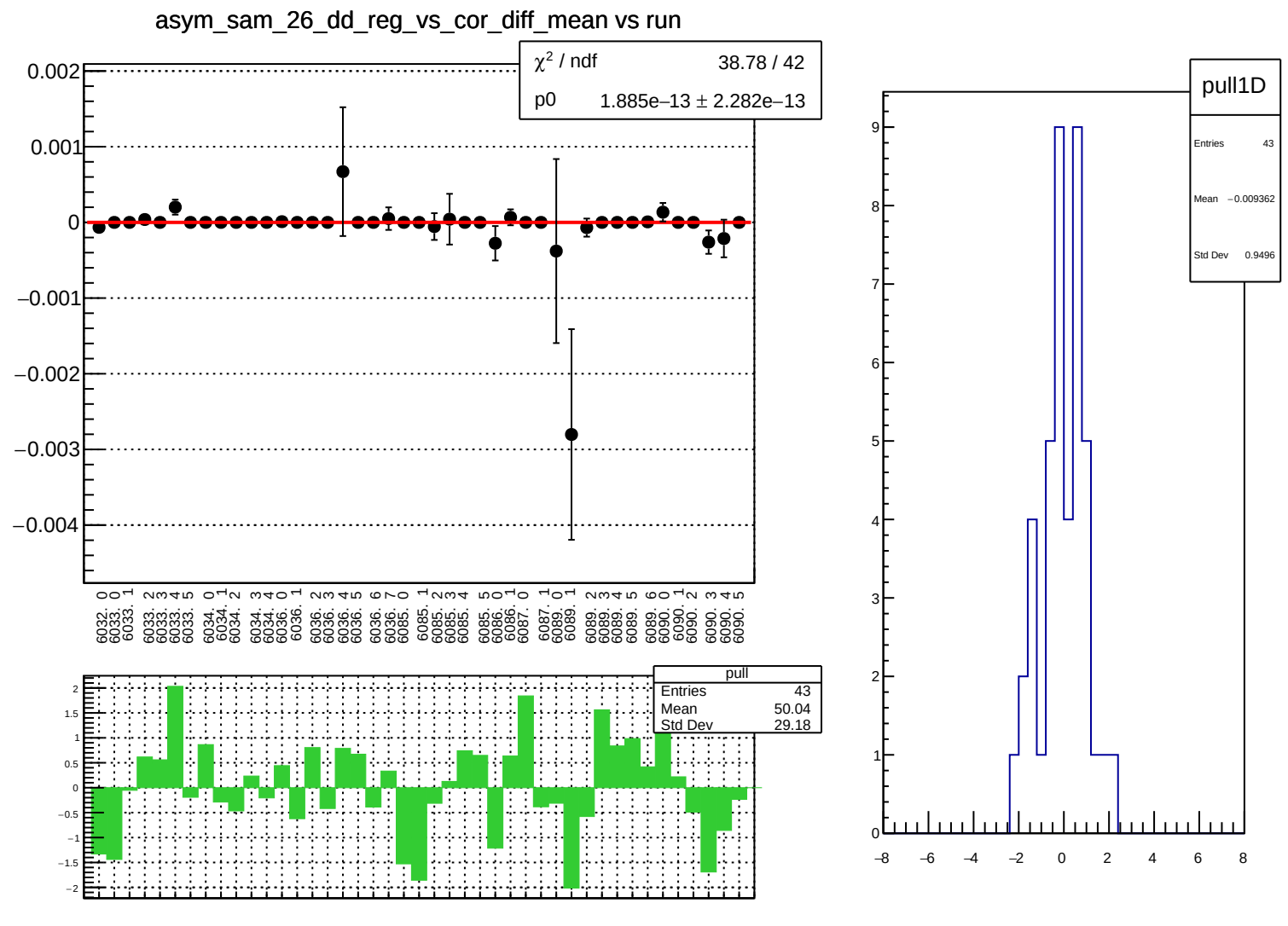

pull1D
Entries 43
Mean 0.01544
Std Dev 1.001

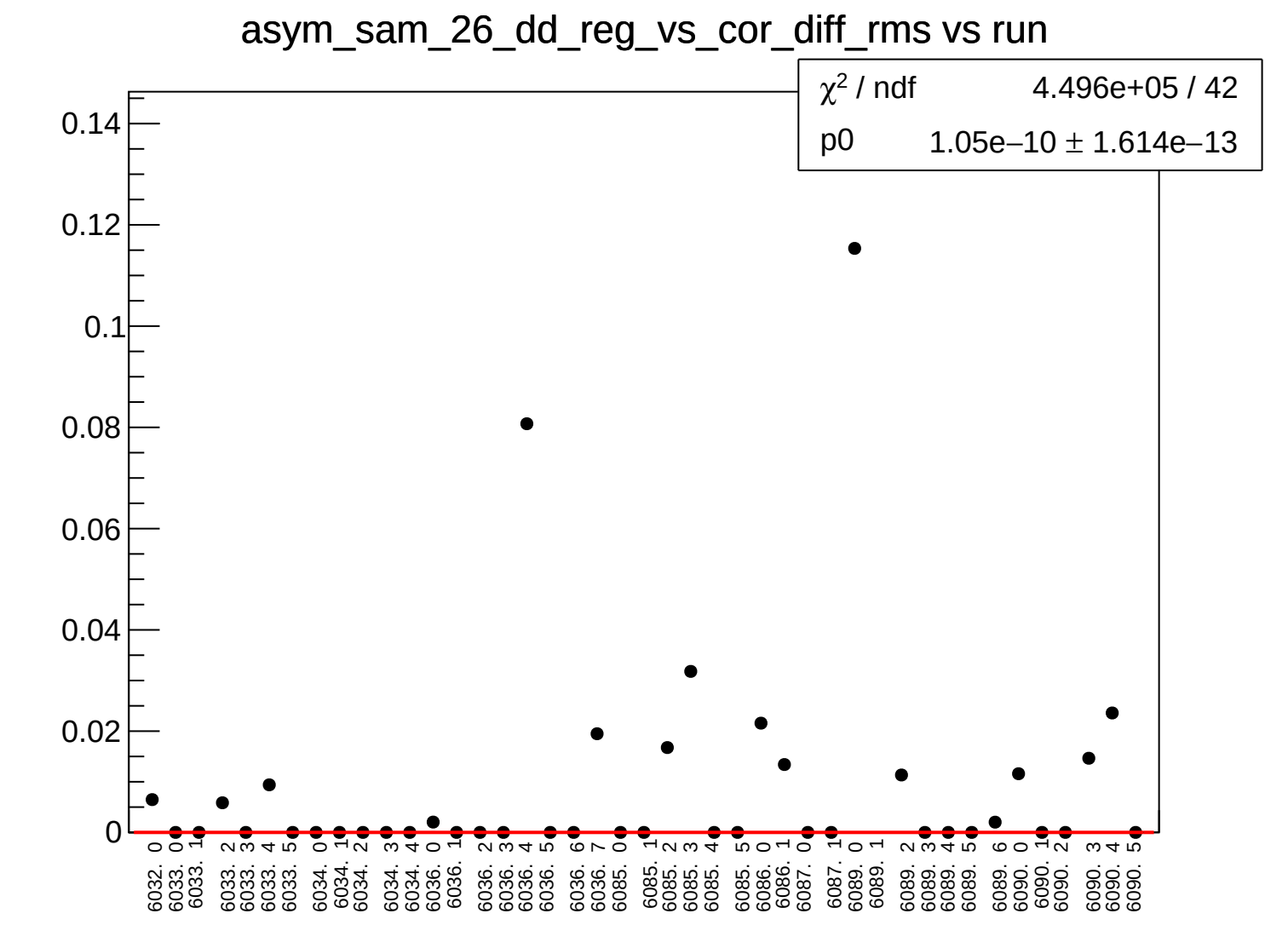

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8783 / 42
p0 2258 ± 2.429
3000
2800
2600
2400
2200
2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

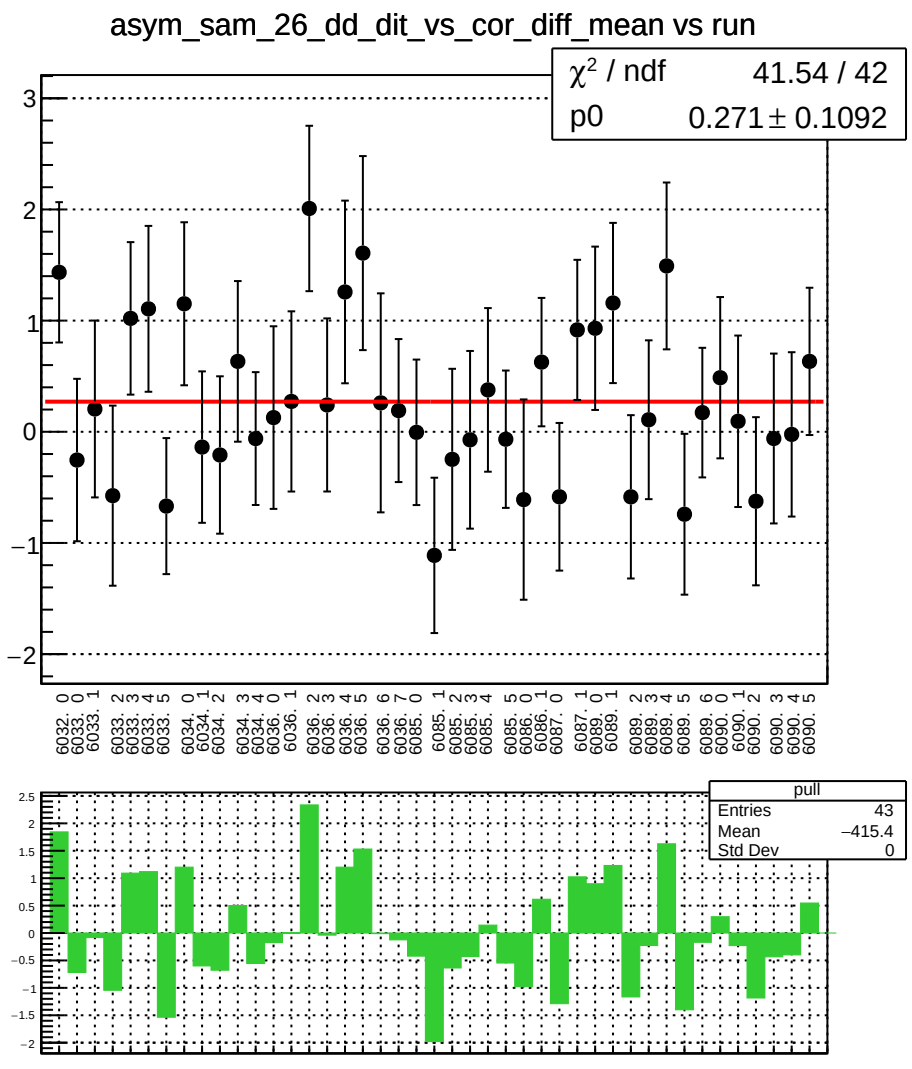

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 43.5 / 42
p0 −1751 ± 3385
pull
Entries 43
Mean 18.75
Std Dev 44.31

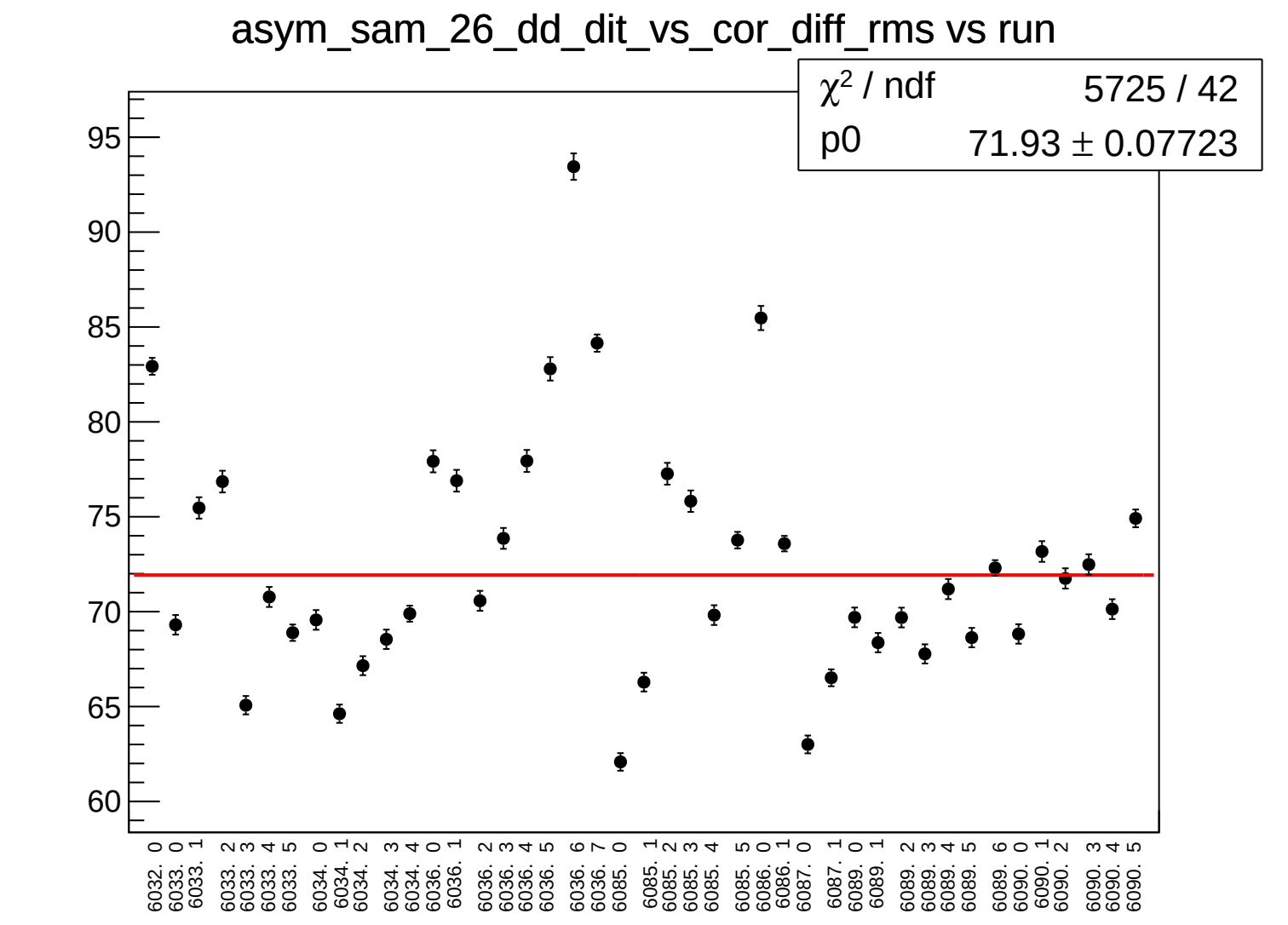

pull1D
Entries 43
Mean −0.01584
Std Dev 1.006

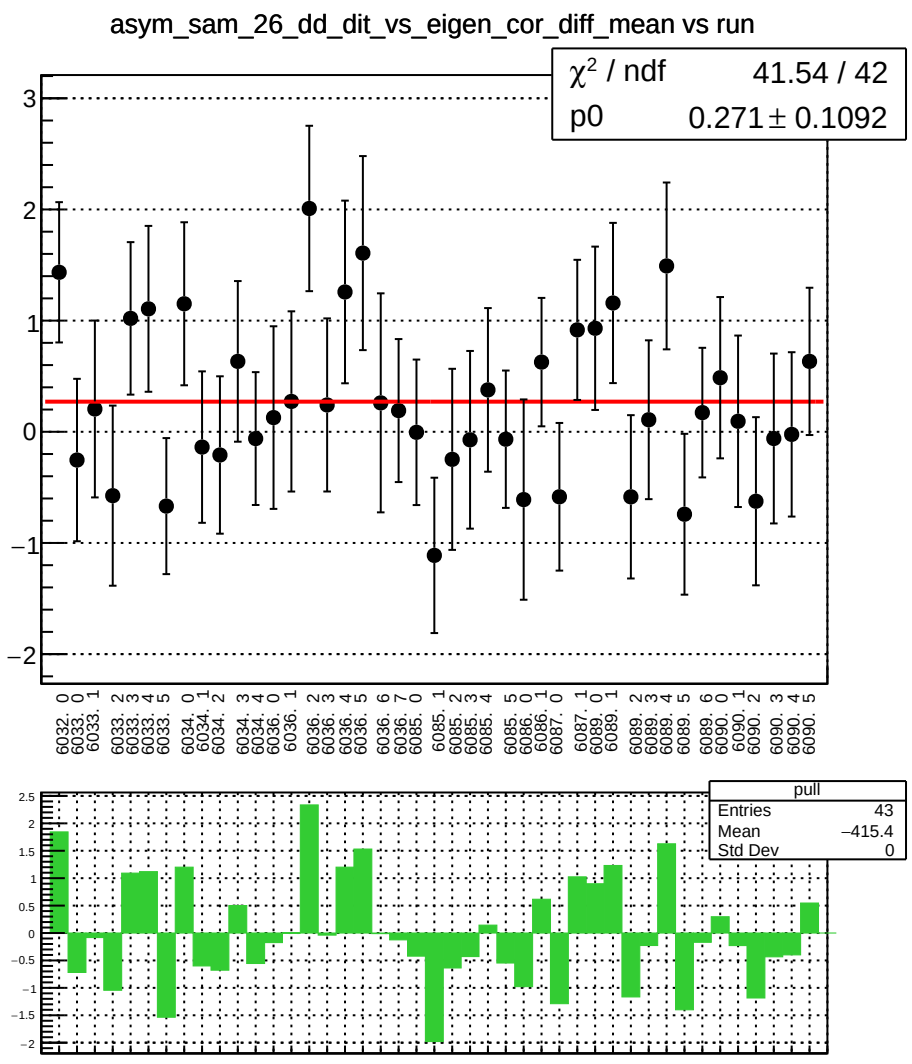

asym_sam_26_dd_rms vs run
χ² / ndf 8776 / 42
p0 2225 ± 2.393
3000
2800
2600
2400
2200
2000
1800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

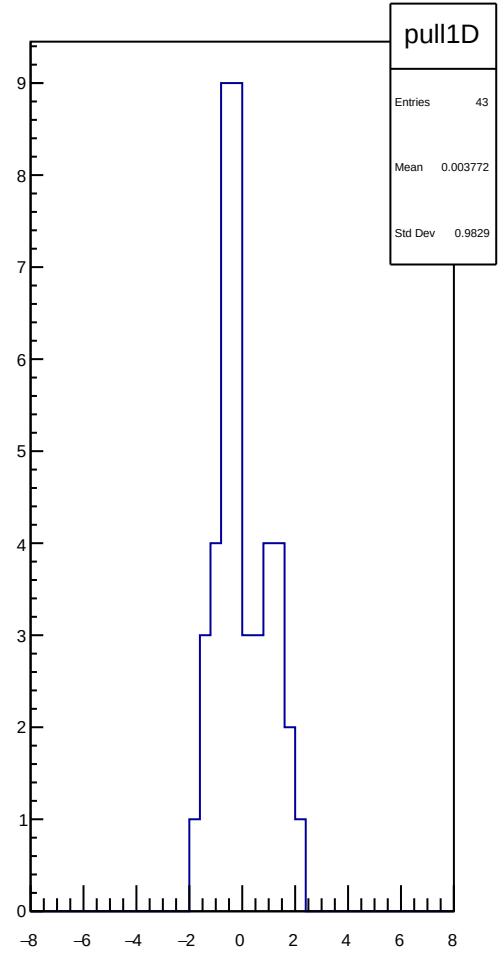

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.78 / 42
p0 1.885e−13 ± 2.282e−13
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 50.04
Std Dev 29.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.009362
Std Dev 0.9496
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

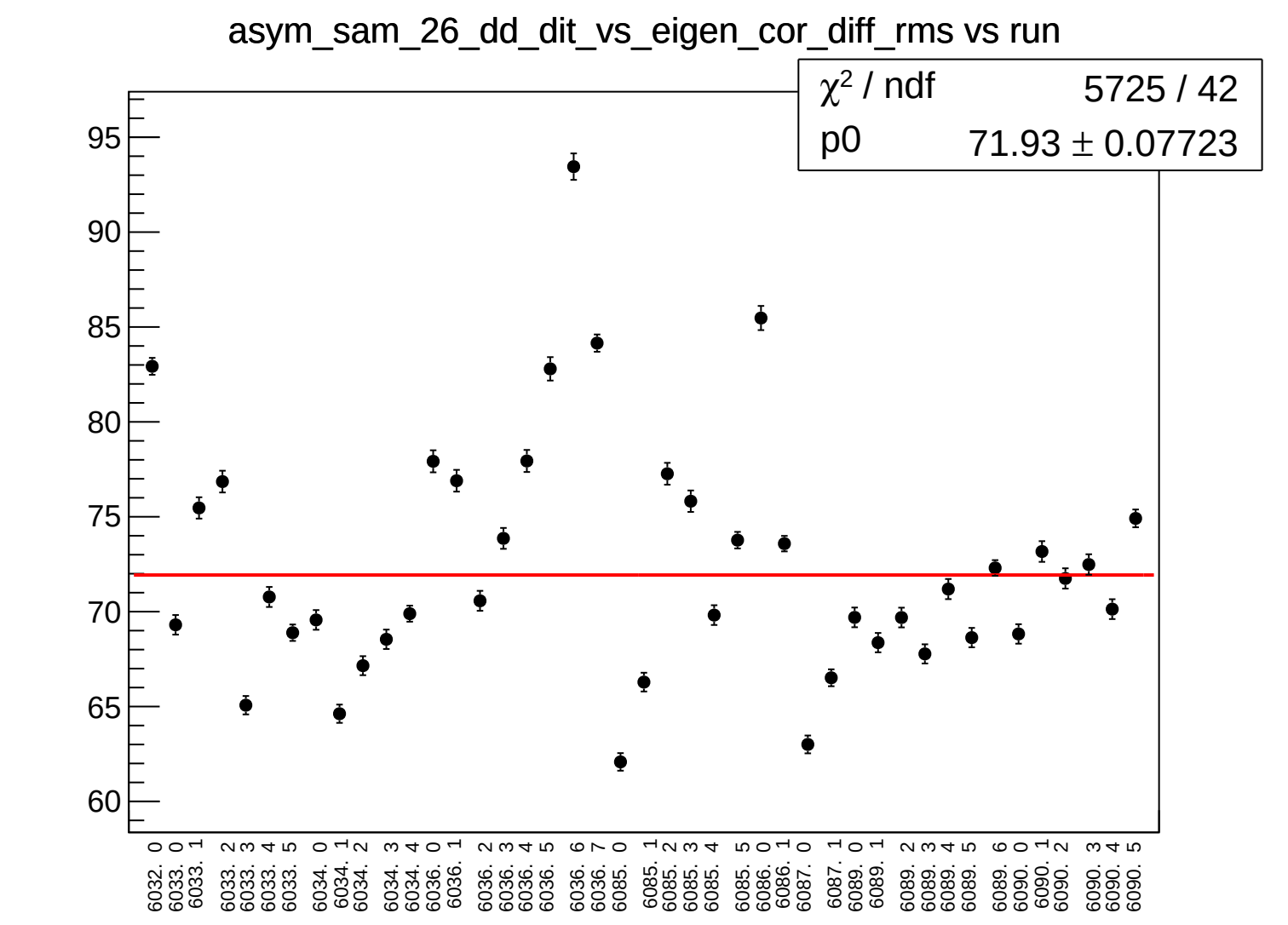

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.496e+05 / 42
p0 1.05e−10 ± 1.614e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

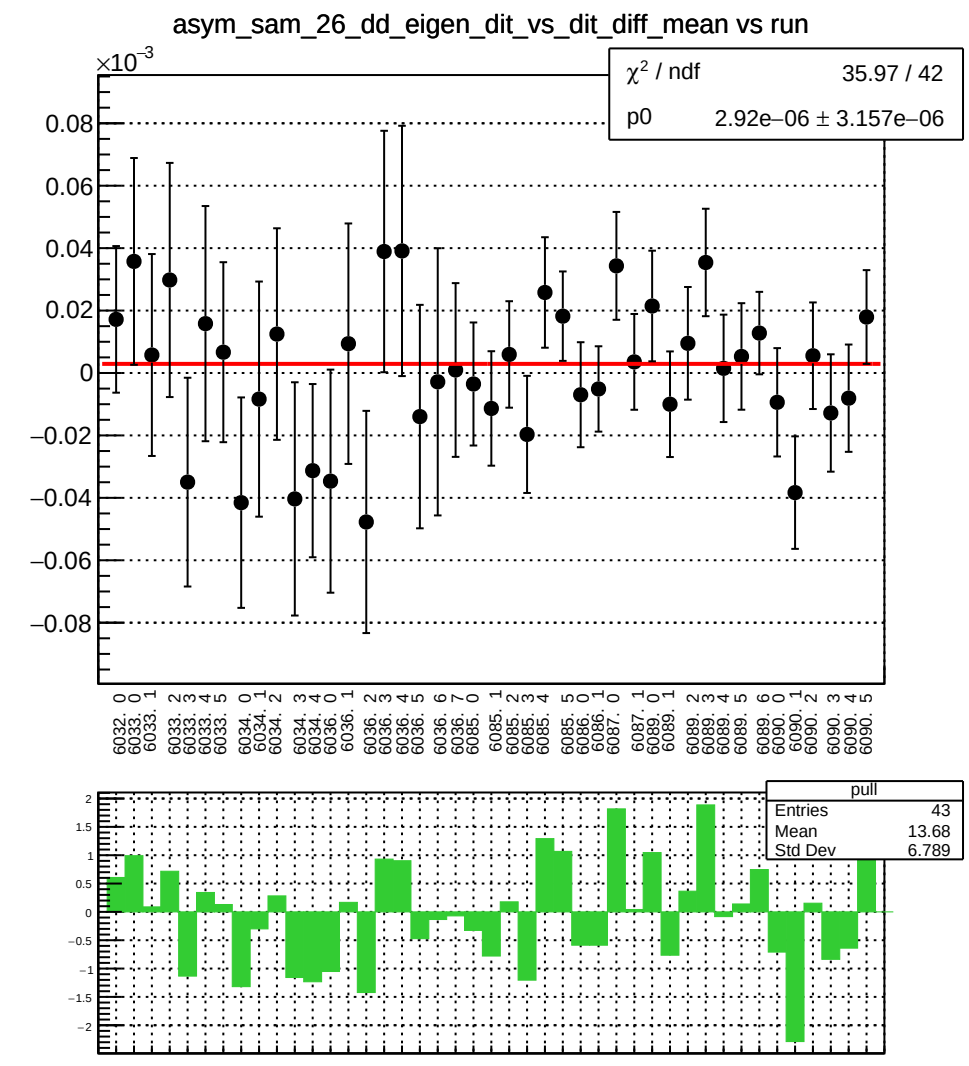

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.54 / 42
p0 0.271 ± 0.1092
3
2
1
0
−1
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −415.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003772
Std Dev 0.9829
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

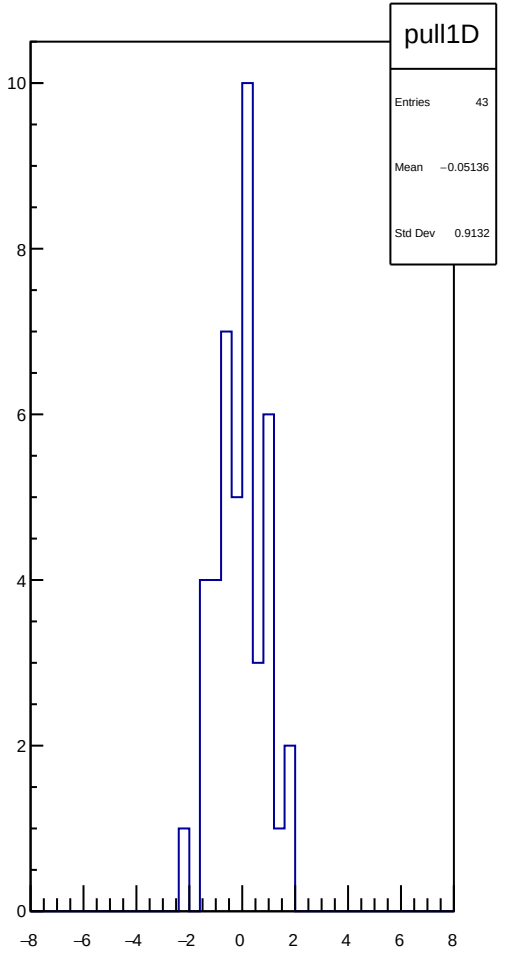

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5725 / 42
p0 71.93 ± 0.07723
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

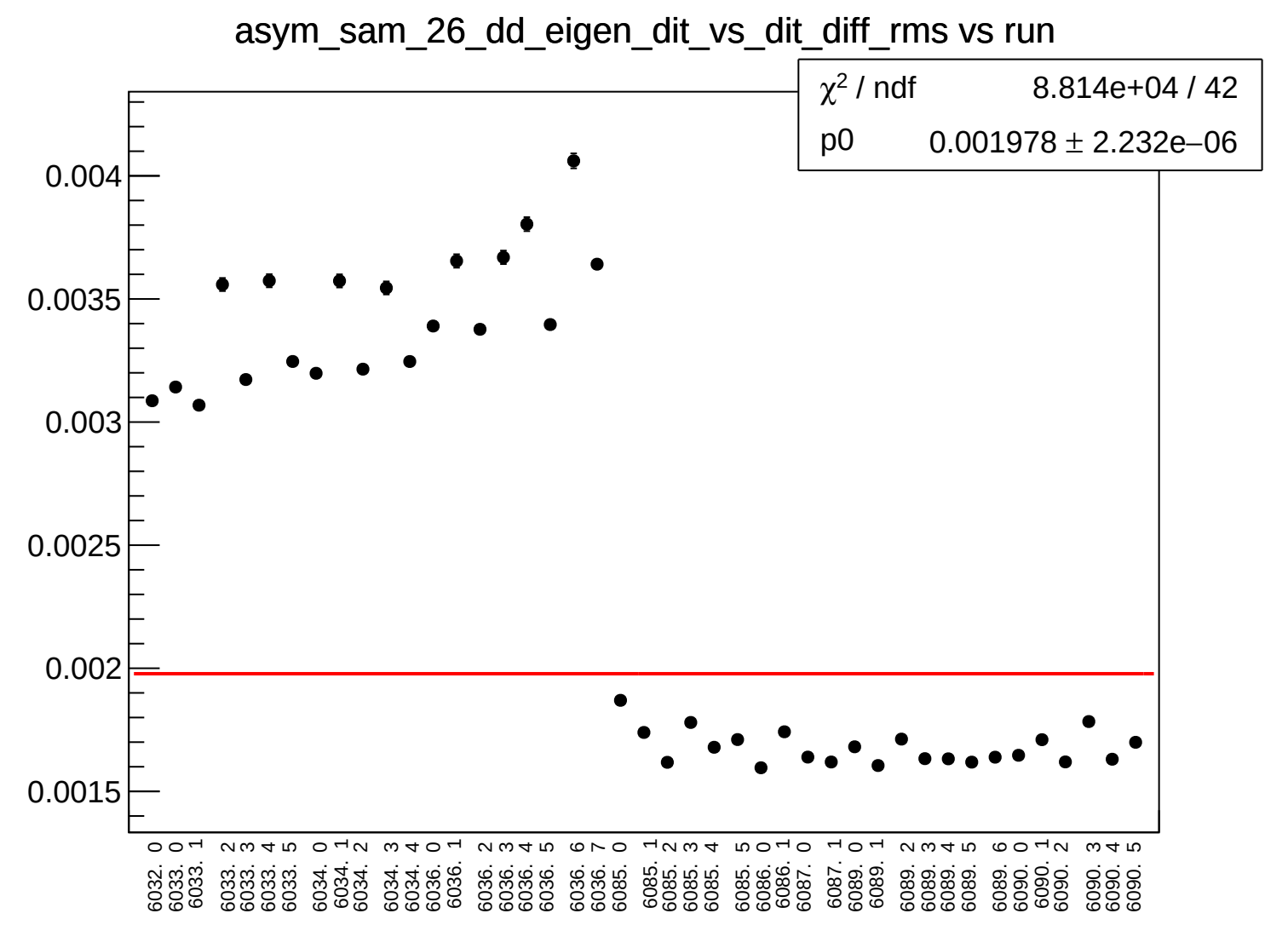

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.54 / 42
p0 0.271 ± 0.1092
pull
Entries 43
Mean −415.4
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

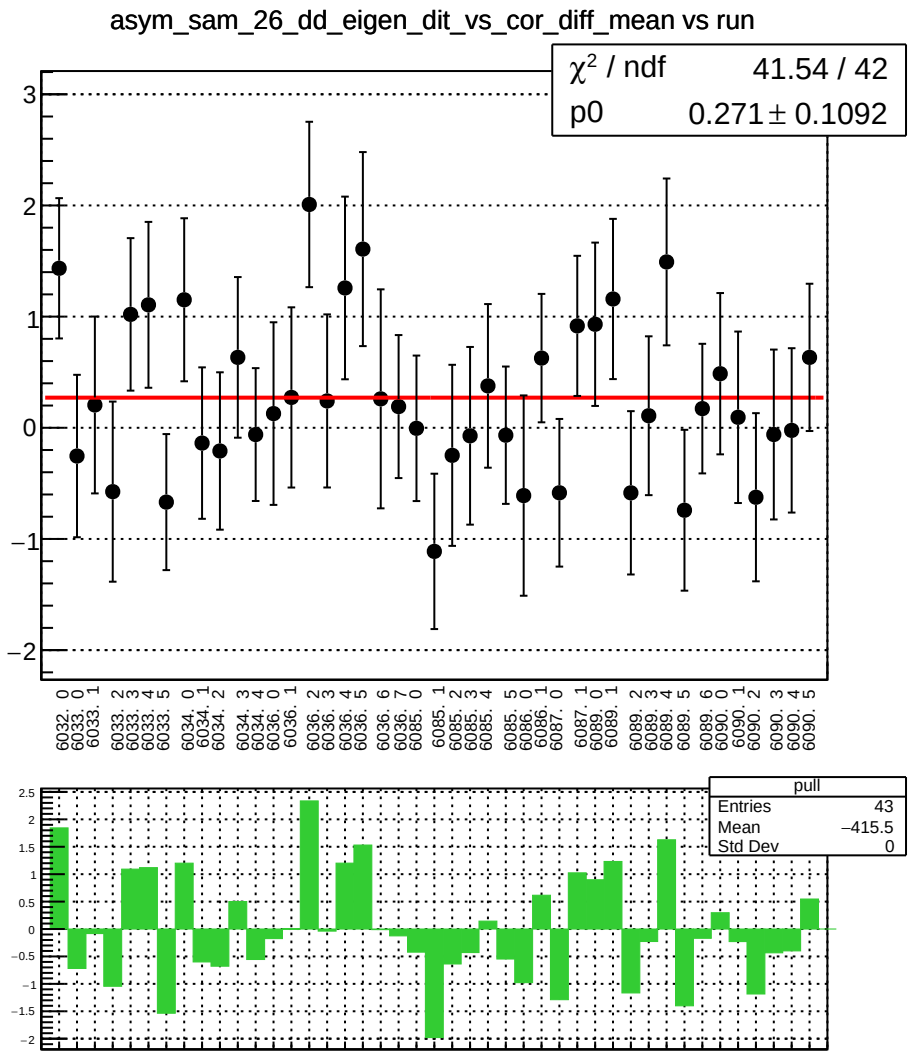

pull1D
Entries 43
Mean 0.003772
Std Dev 0.9829

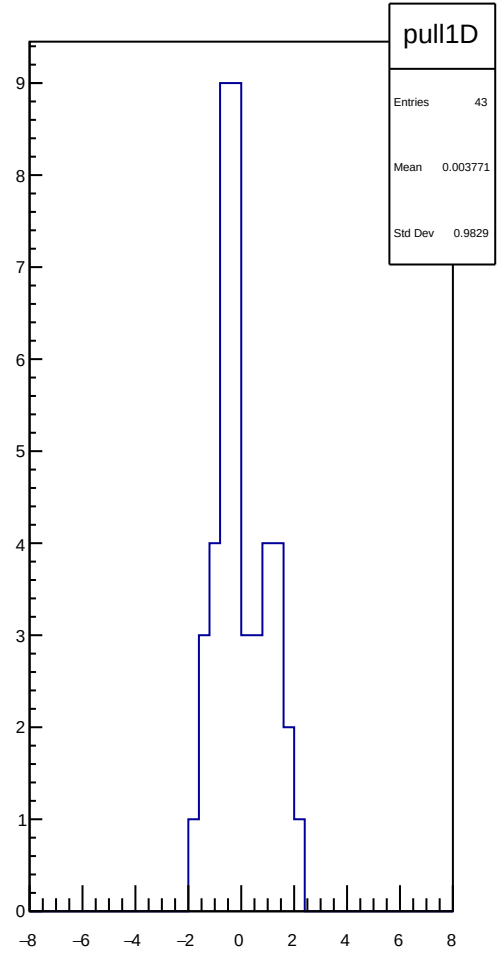

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5725 / 42
p0 71.93 ± 0.07723
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

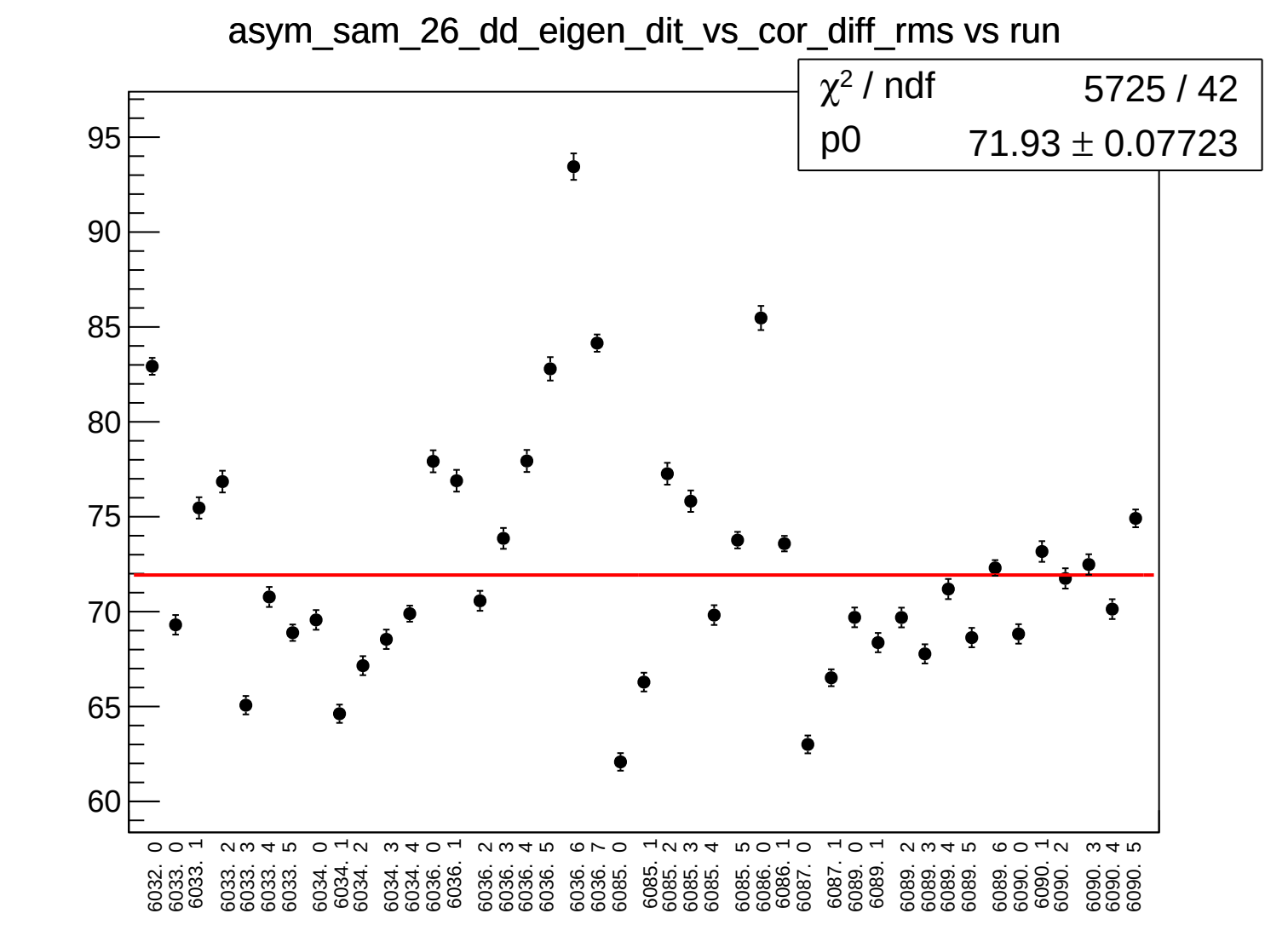

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.97 / 42
p0 2.92e−06 ± 3.157e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.68
Std Dev 6.789
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

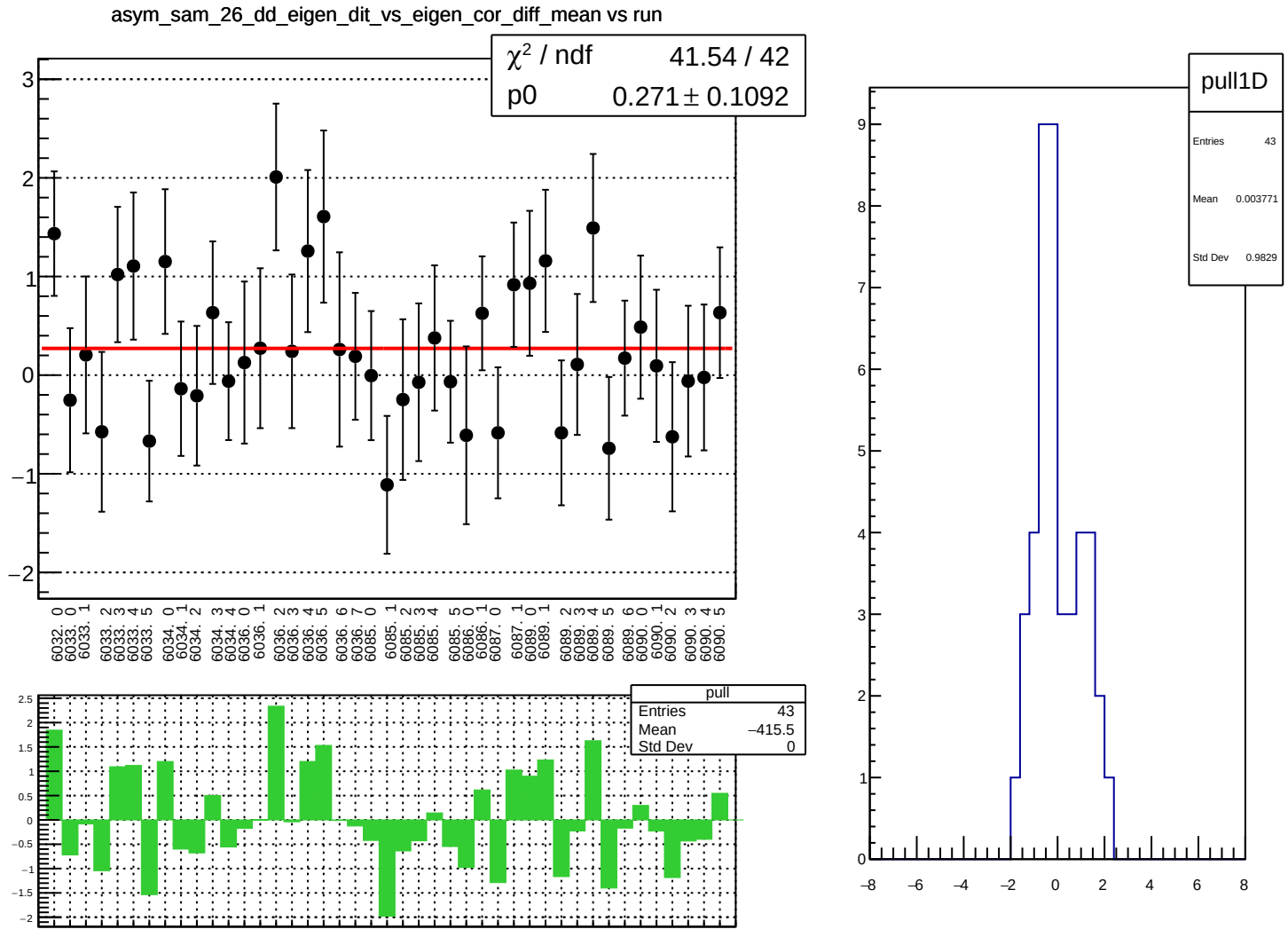

pull1D
Entries 43
Mean −0.05136
Std Dev 0.9132
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

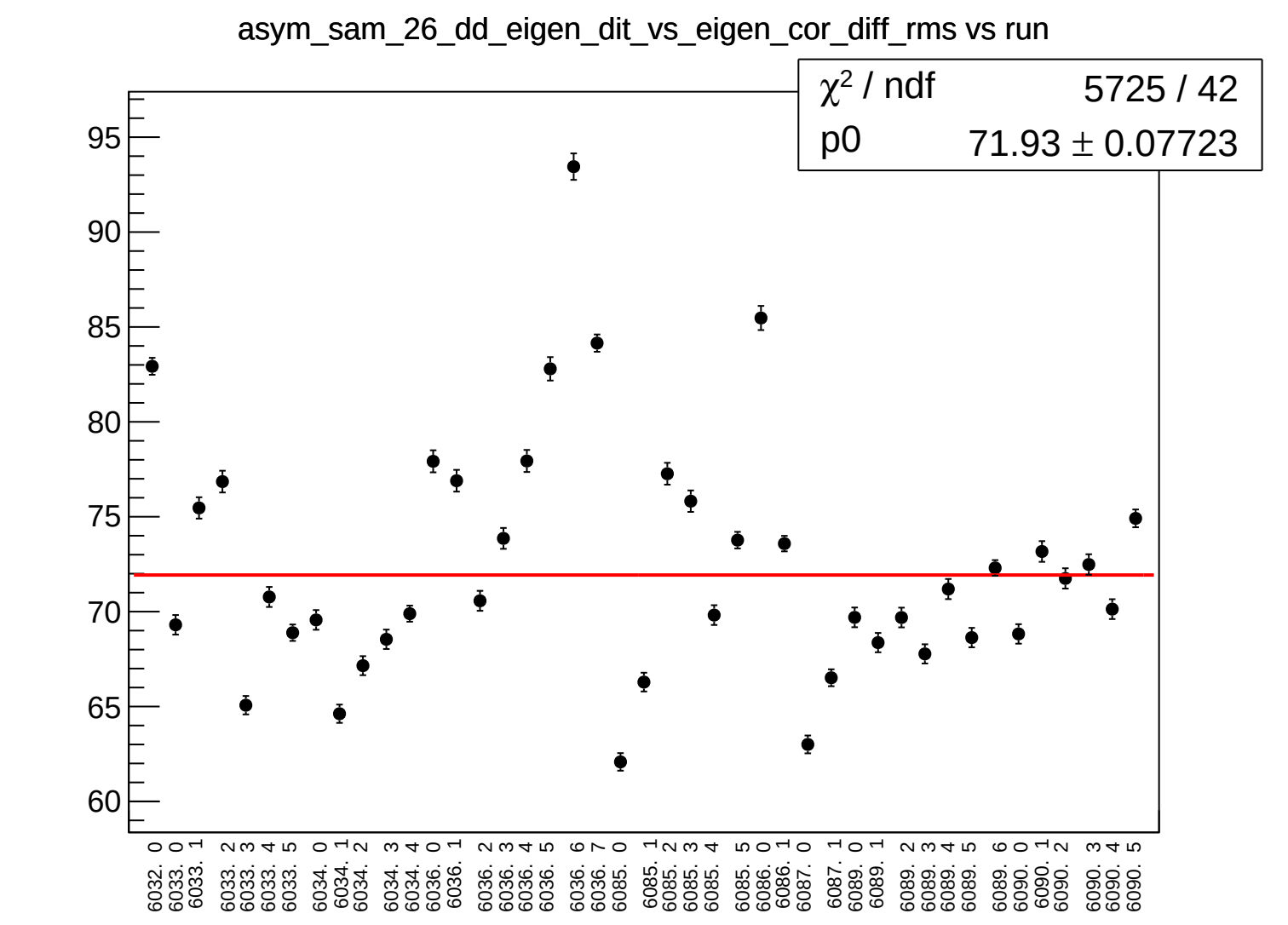

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.814e+04 / 42
p0 0.001978 ± 2.232e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

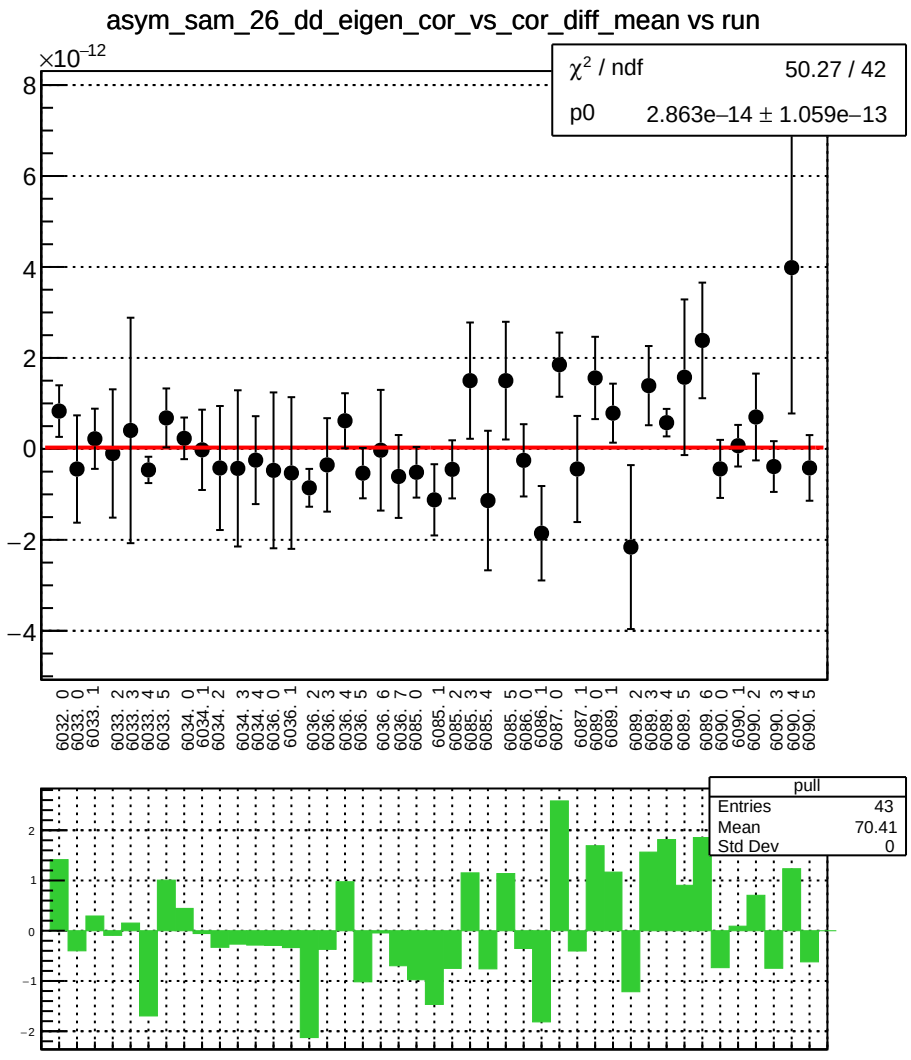

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.54 / 42
p0 0.271 ± 0.1092
pull
Entries 43
Mean −415.5
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

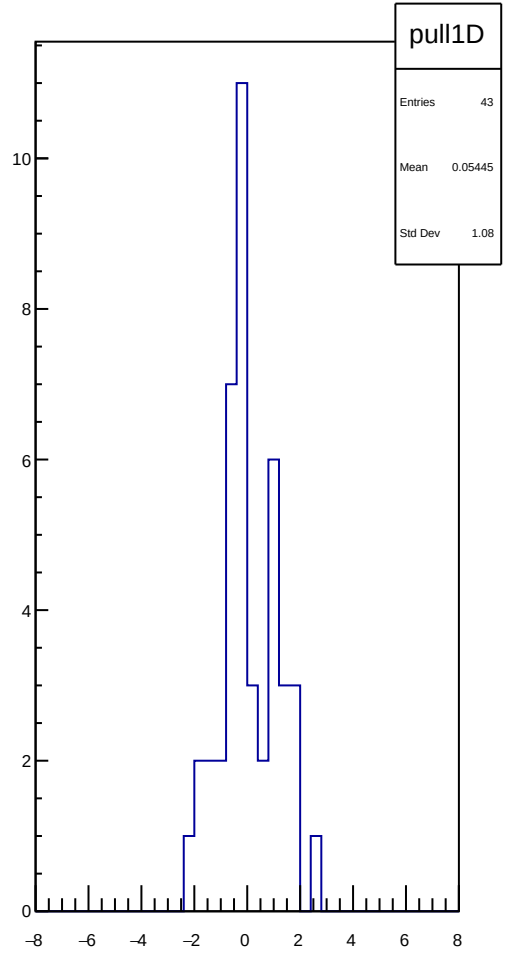

pull1D
Entries 43
Mean 0.003771
Std Dev 0.9829

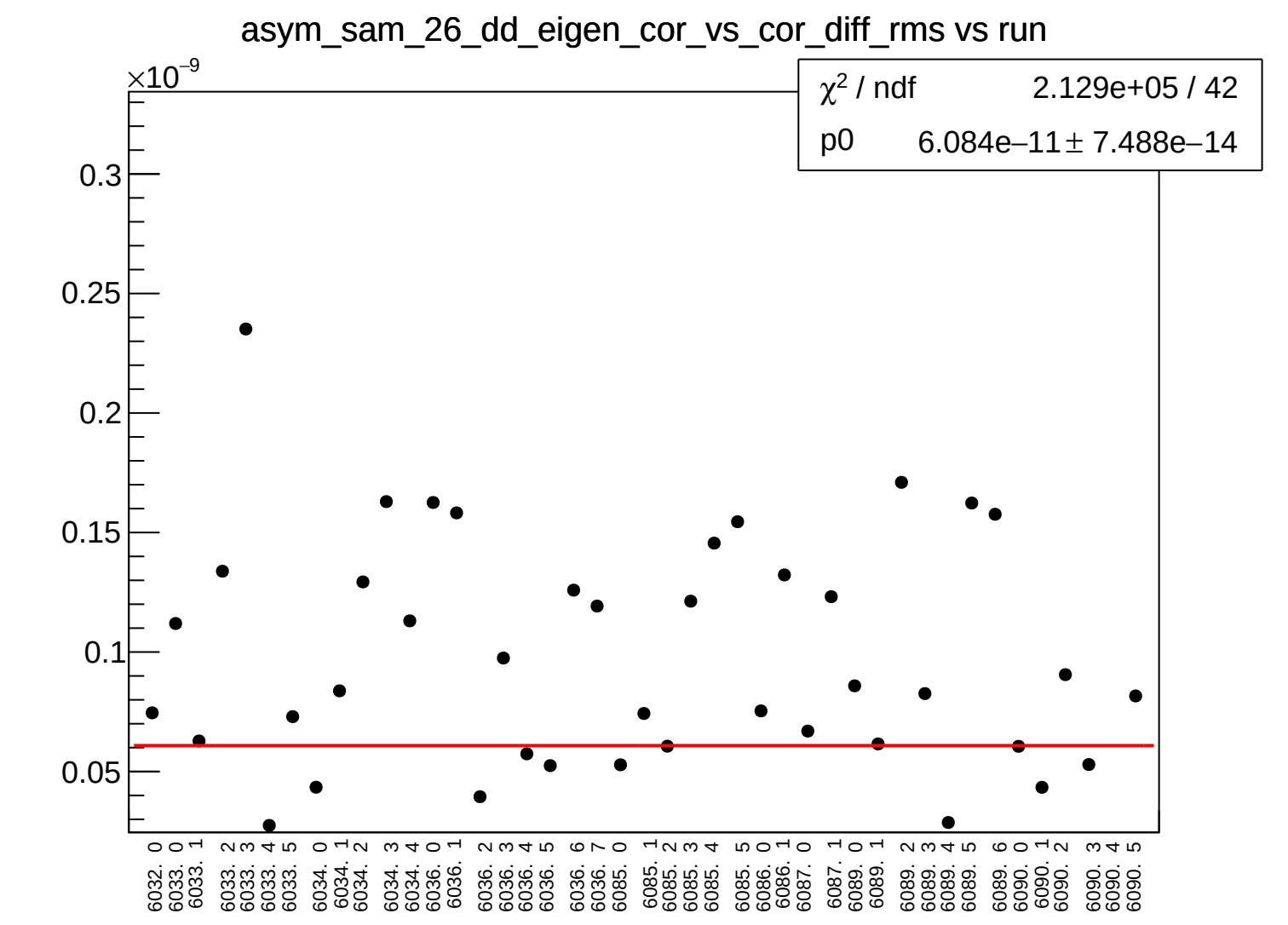

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5725 / 42
p0 71.93 ± 0.07723
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

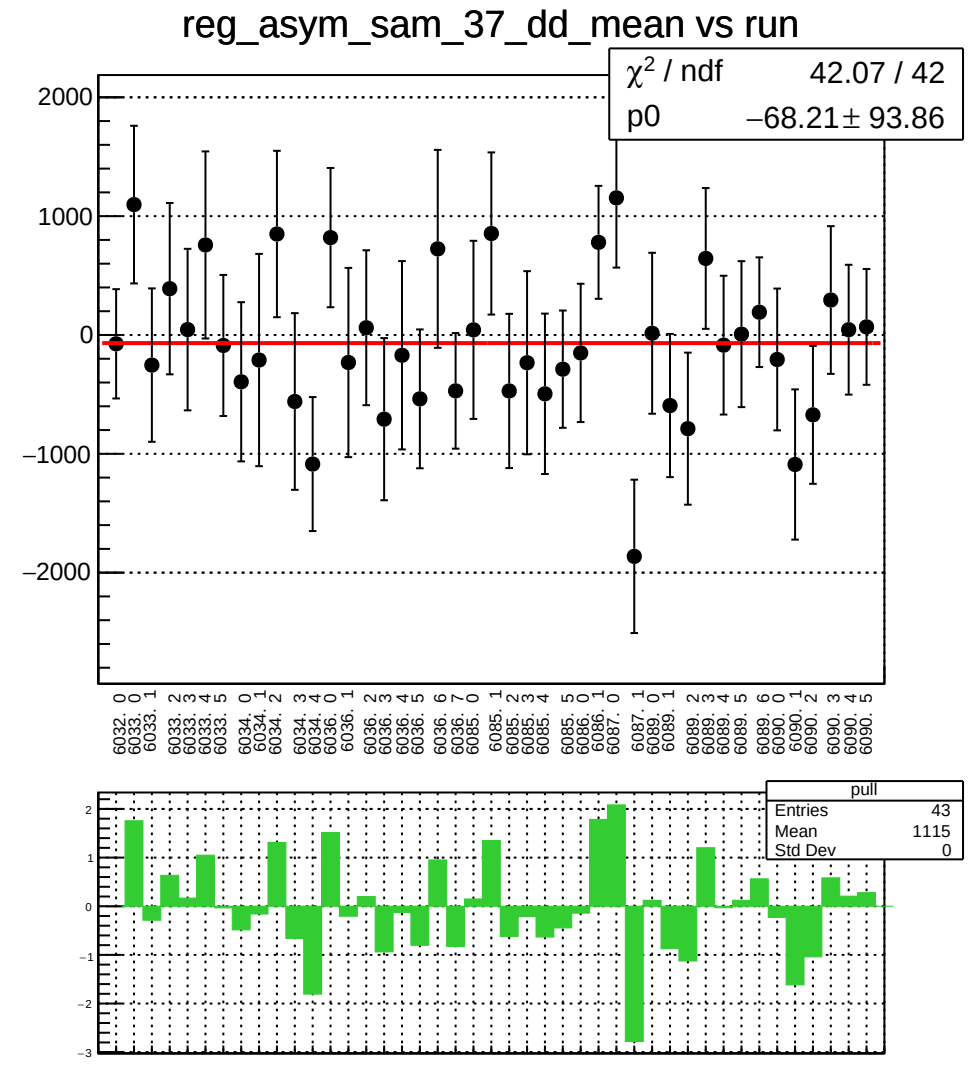

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.54 / 42
p0 0.271 ± 0.1092
pull
Entries 43
Mean −415.5
Std Dev 0
pull1D
Entries 43
Mean 0.003771
Std Dev 0.9829

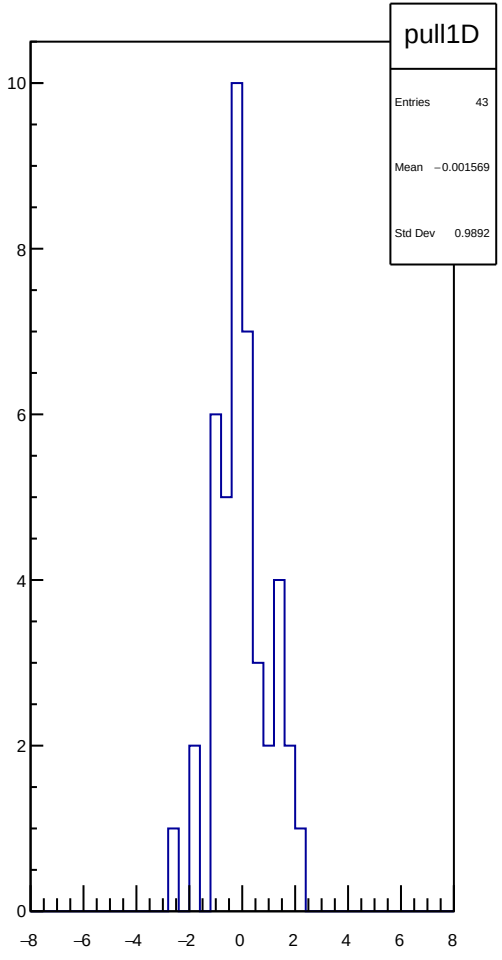

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5725 / 42
p0 71.93 ± 0.07723
95
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

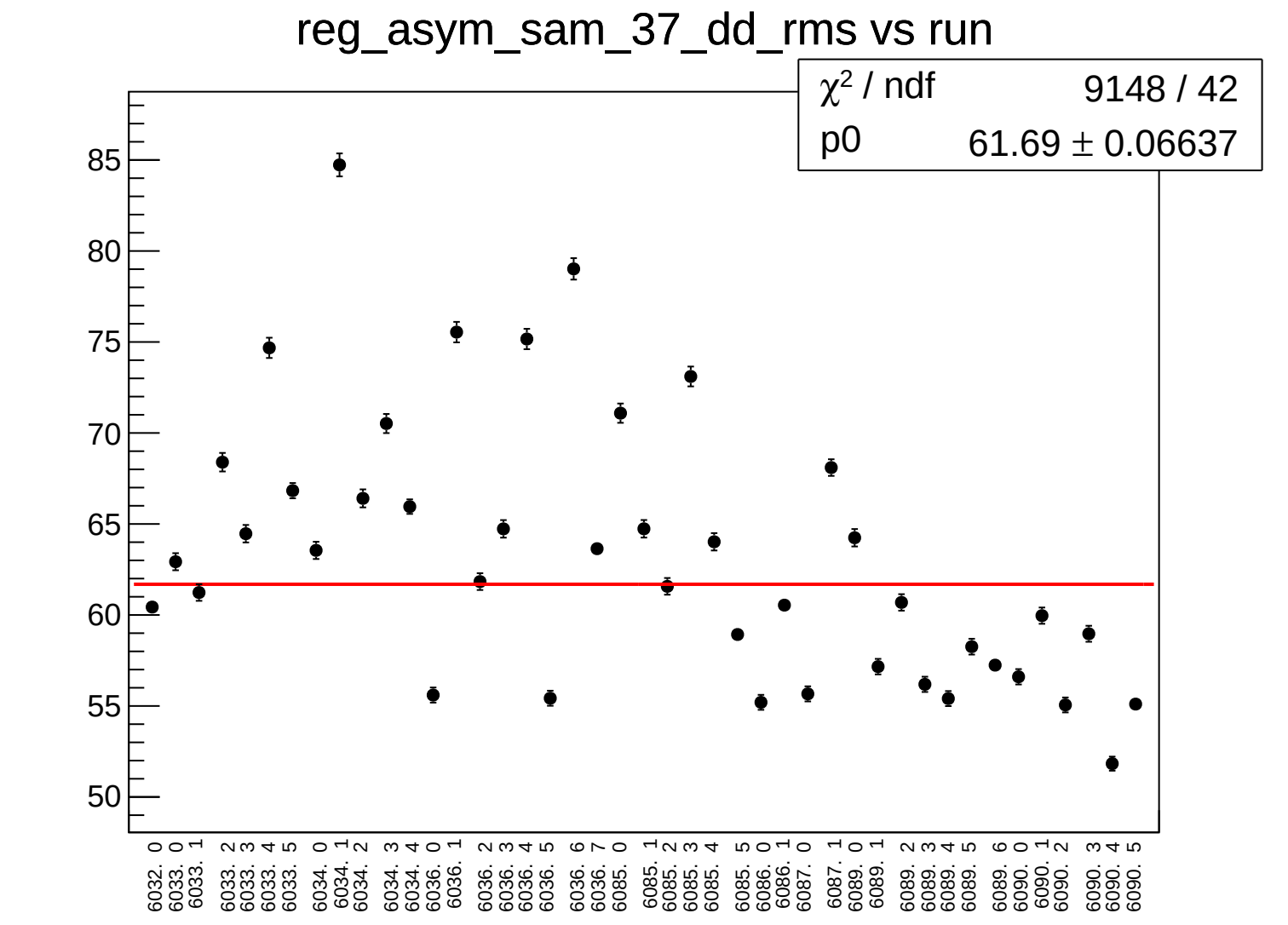

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.27 / 42
p0 2.863e−14 ± 1.059e−13
pull
Entries 43
Mean 70.41
Std Dev 0

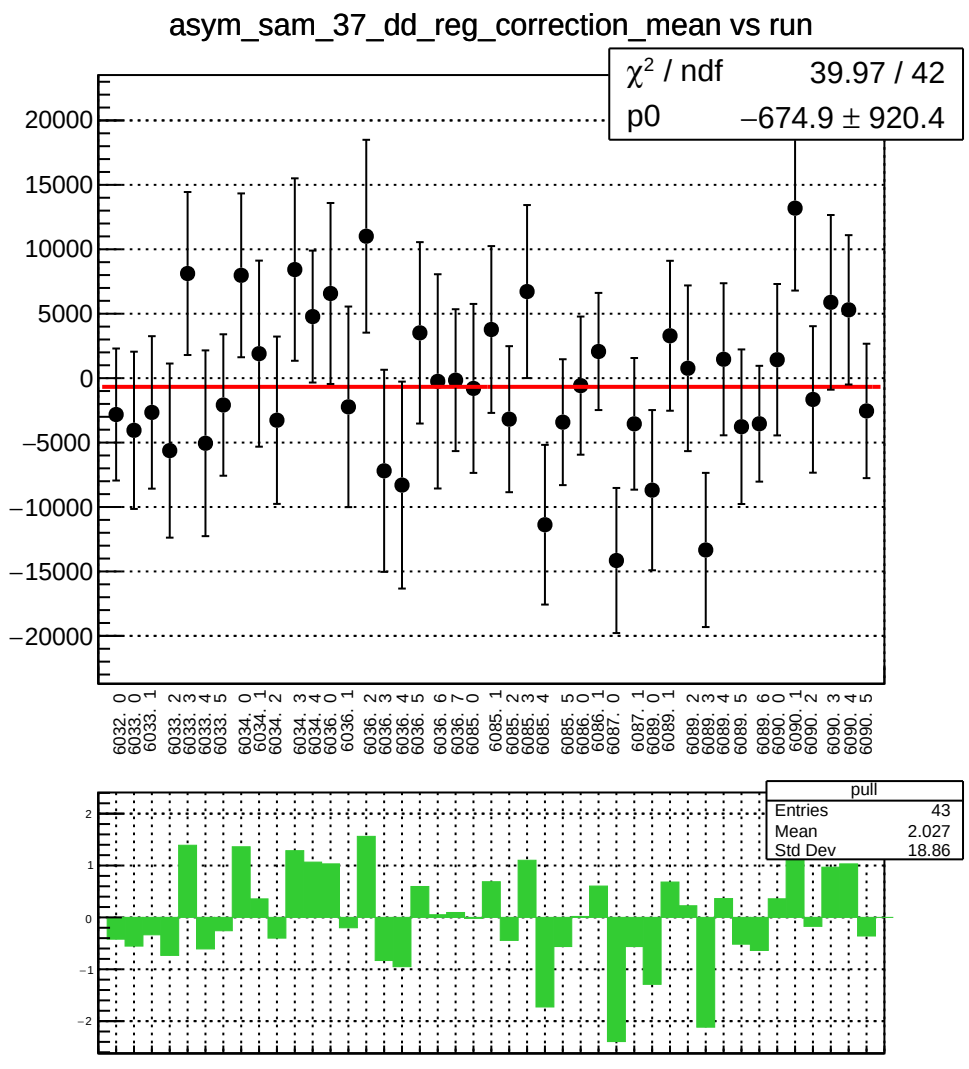

pull1D
Entries 43
Mean 0.05445
Std Dev 1.08

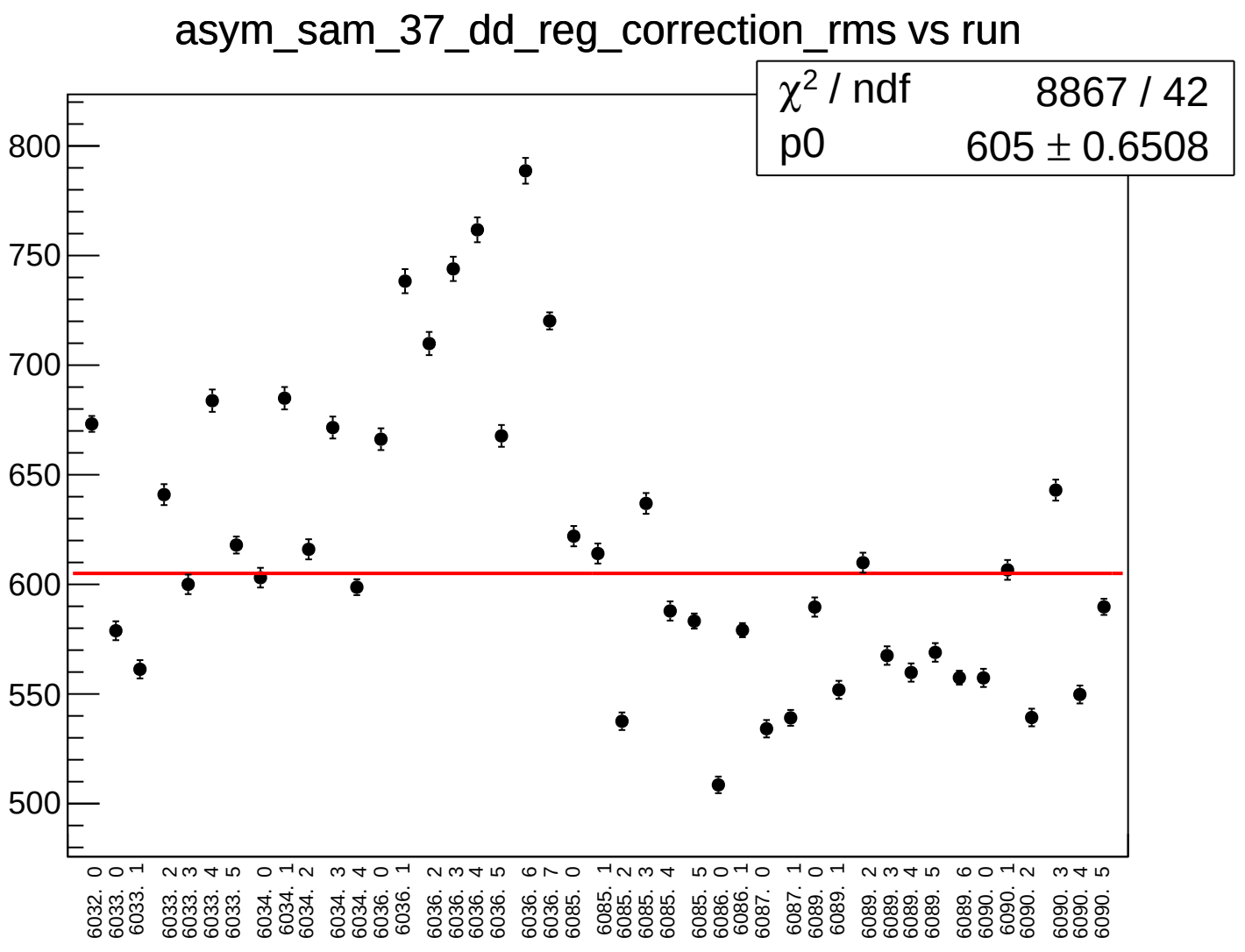

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.129e+05 / 42
p0 6.084e−11 ± 7.488e−14
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

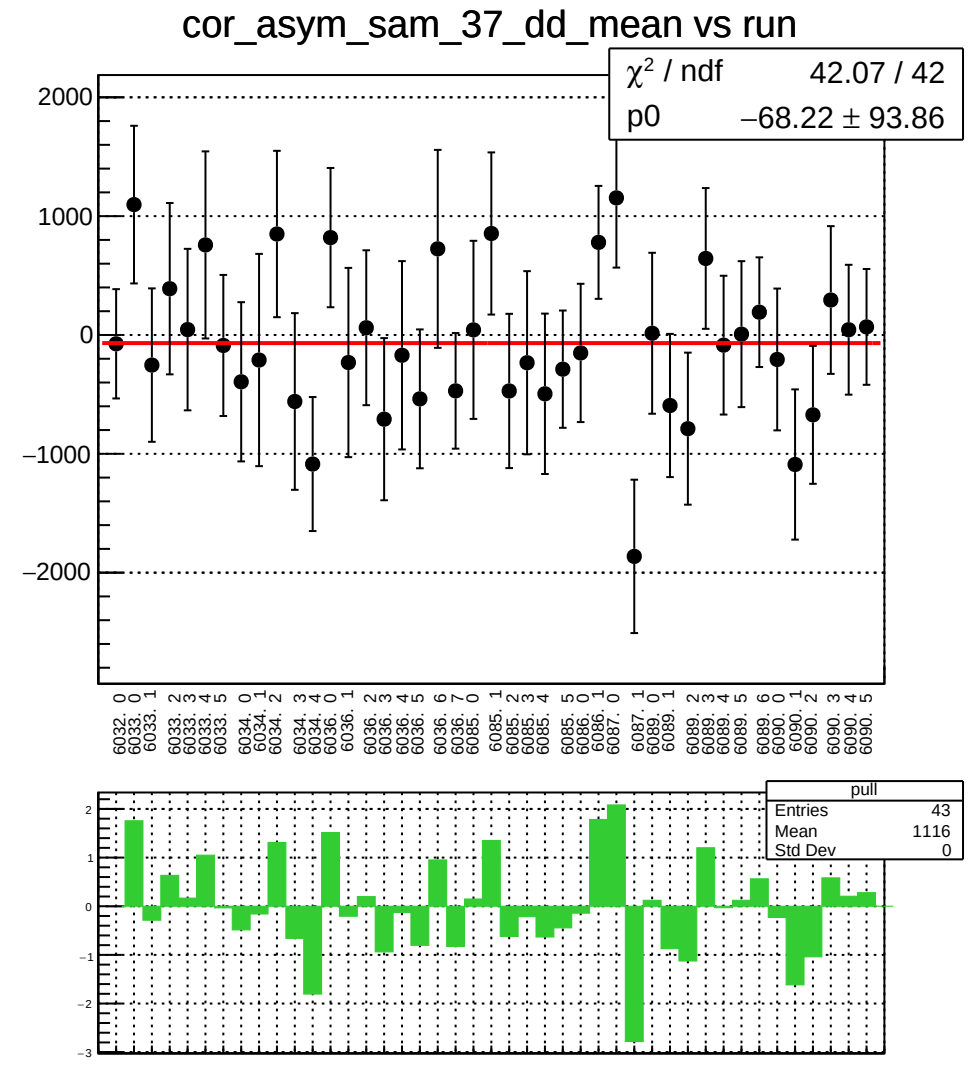

reg_asym_sam_37_dd_mean vs run
χ² / ndf 42.07 / 42
p0 −68.21 ± 93.86
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1115
Std Dev 0
2
1
0
−1
−2
−3

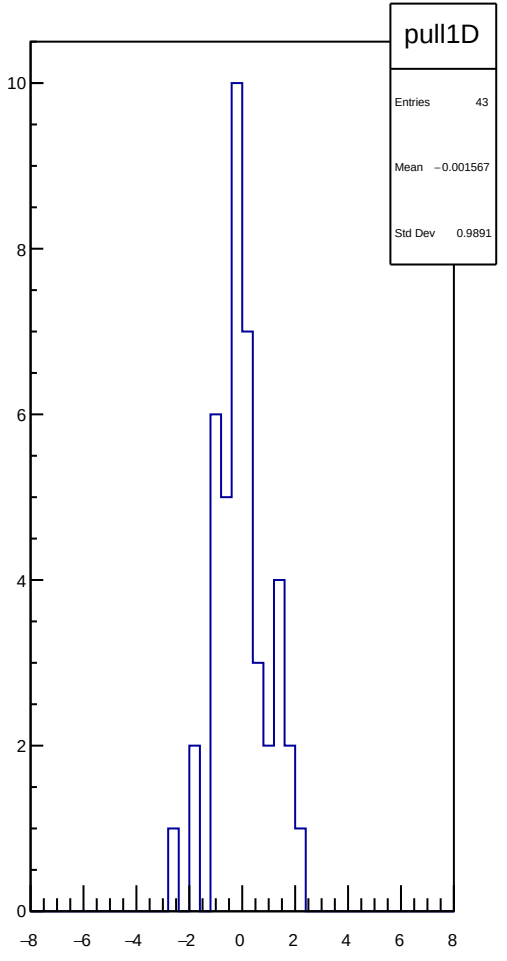

pull1D
Entries 43
Mean −0.001569
Std Dev 0.9892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

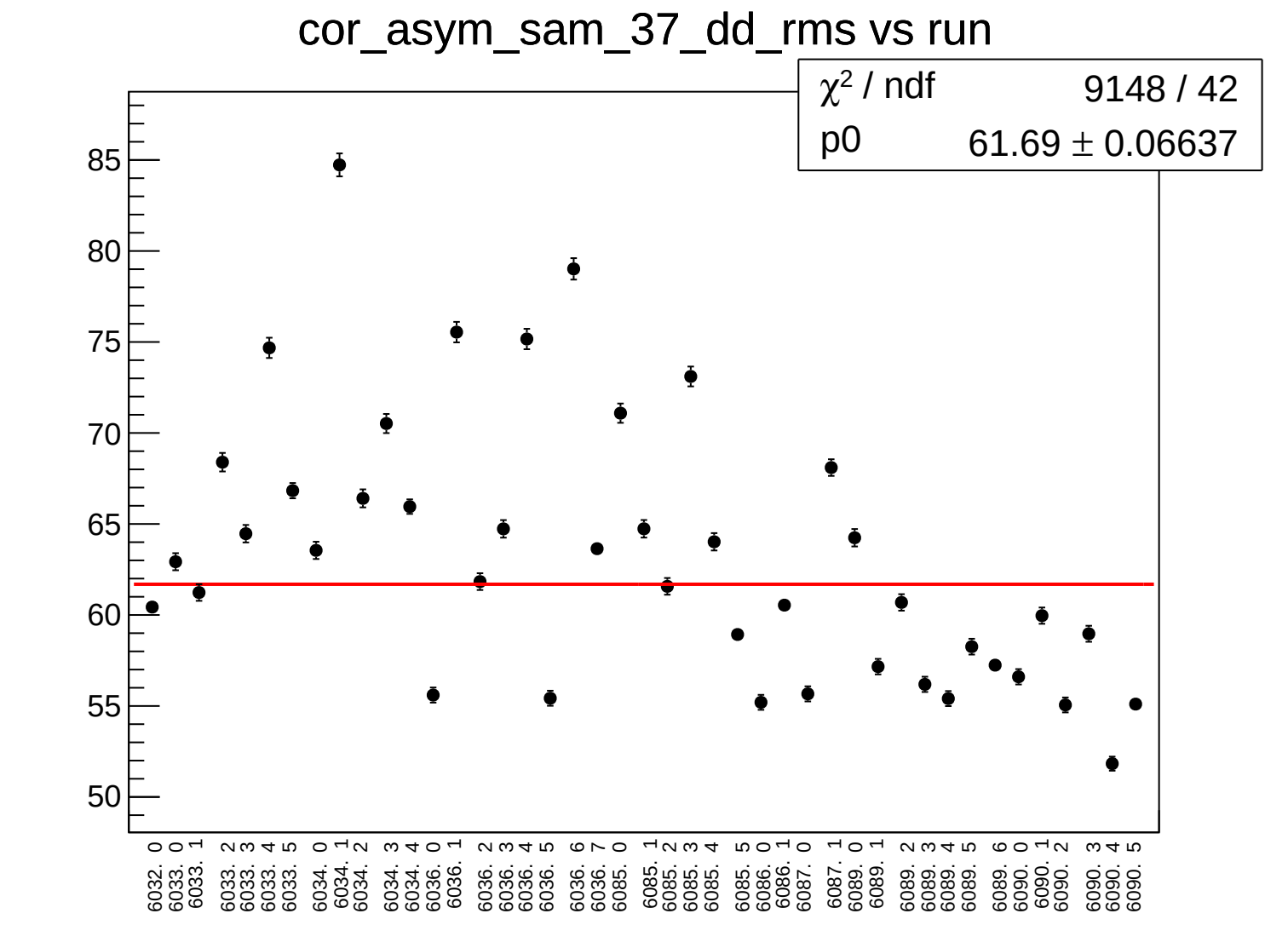

reg_asym_sam_37_dd_rms vs run
χ² / ndf 9148 / 42
p0 61.69 ± 0.06637
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

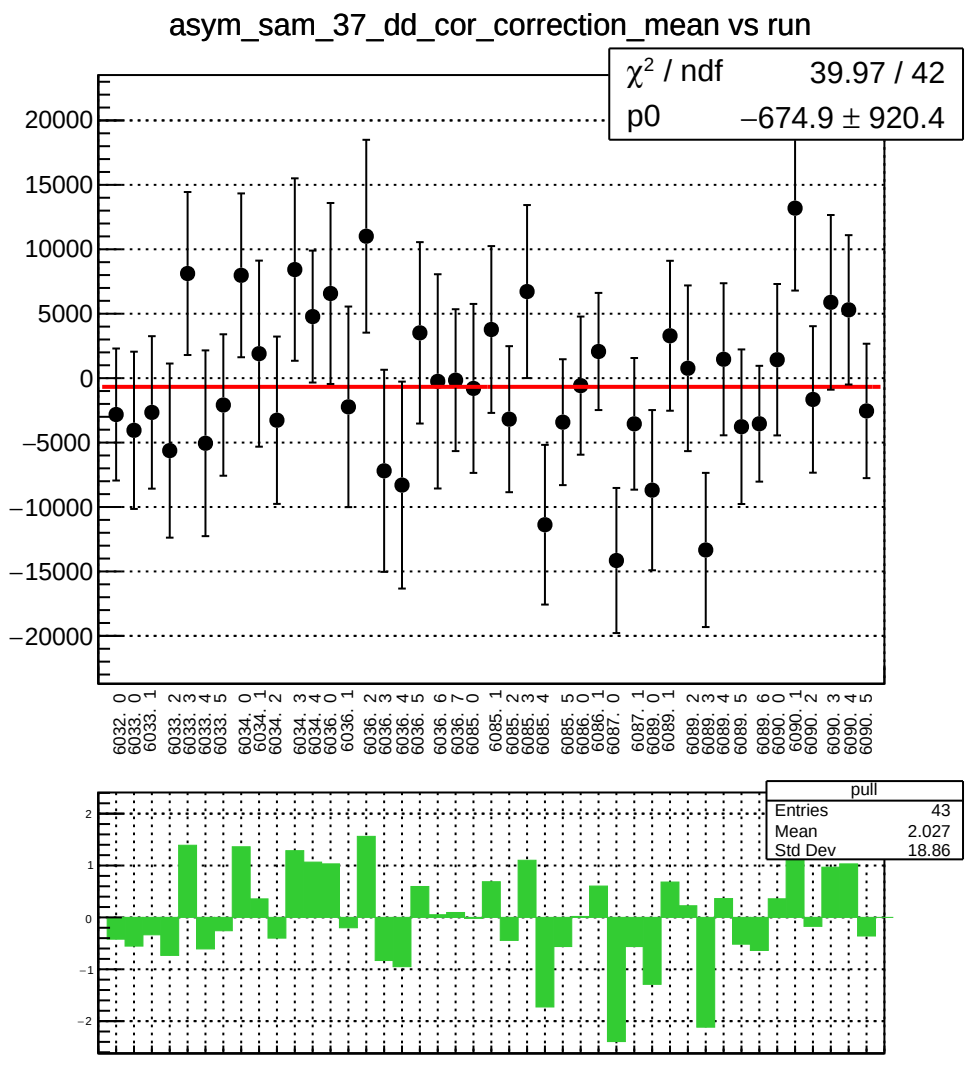

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 39.97 / 42
p0 −674.9 ± 920.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2.027
Std Dev 18.86
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02145
Std Dev 0.9638
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 8867 / 42
p0 605 ± 0.6508
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_37_dd_mean vs run
χ² / ndf 42.07 / 42
p0 −68.22 ± 93.86
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1116
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.001567
Std Dev 0.9891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_37_dd_rms vs run
χ² / ndf 9148 / 42
p0 61.69 ± 0.06637
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 39.97 / 42
p0 −674.9 ± 920.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2.027
Std Dev 18.86
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02145
Std Dev 0.9638
9
8
7
6
5
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3
2
1
0
−8
−6
−4
−2
0
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6
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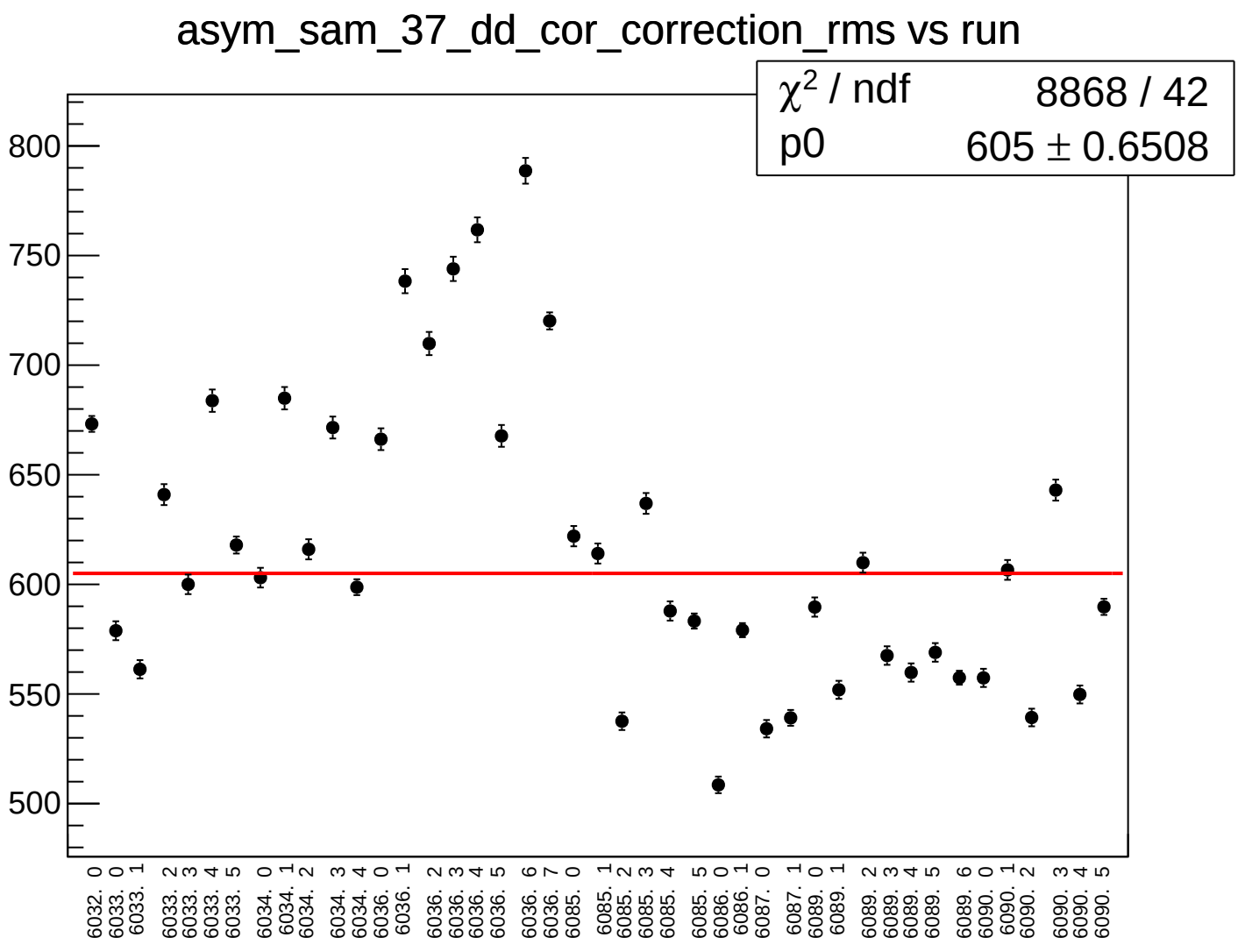
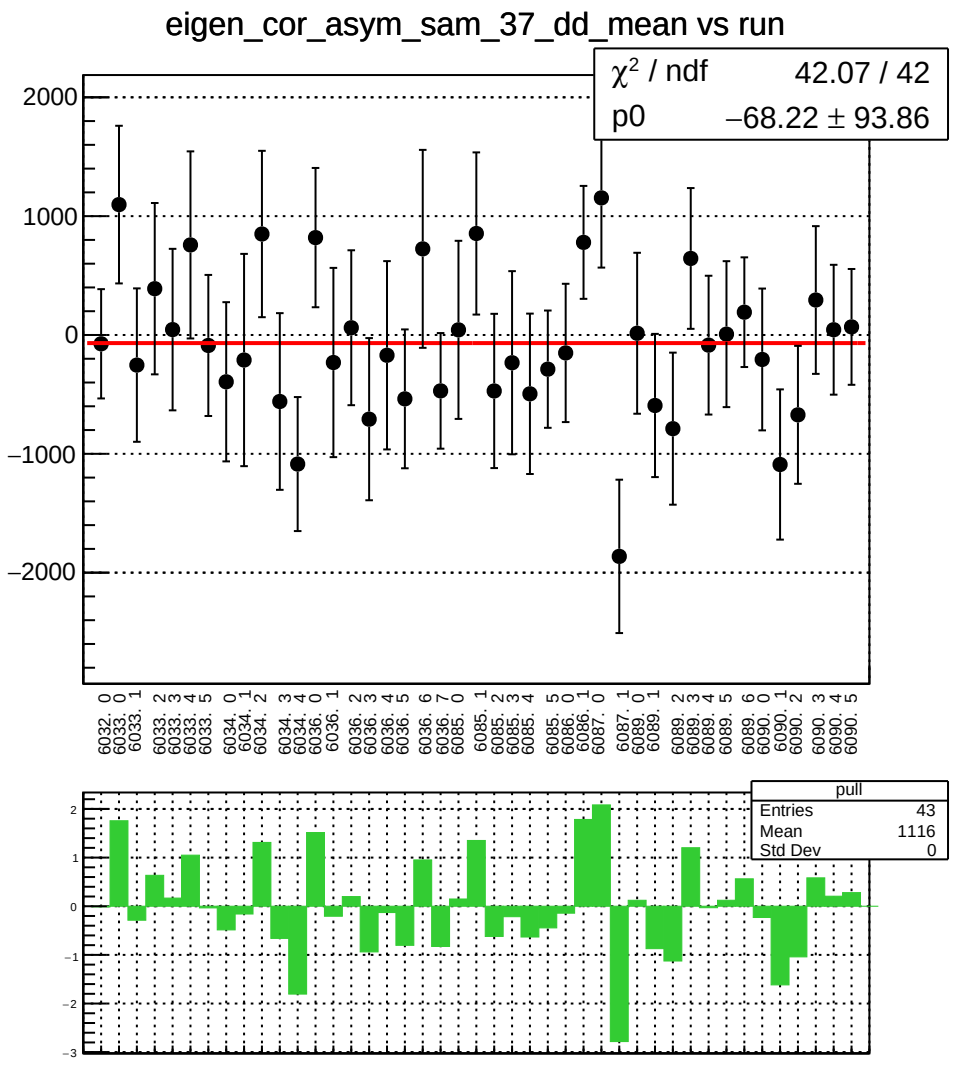
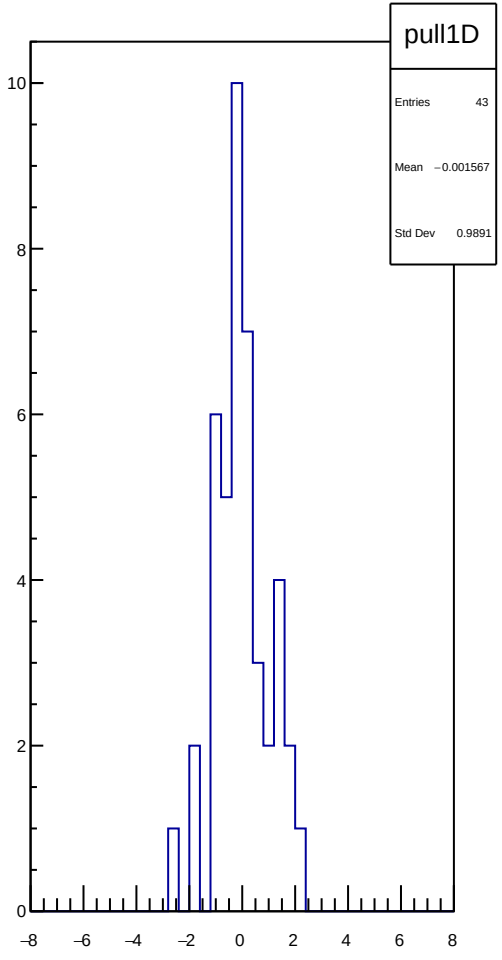
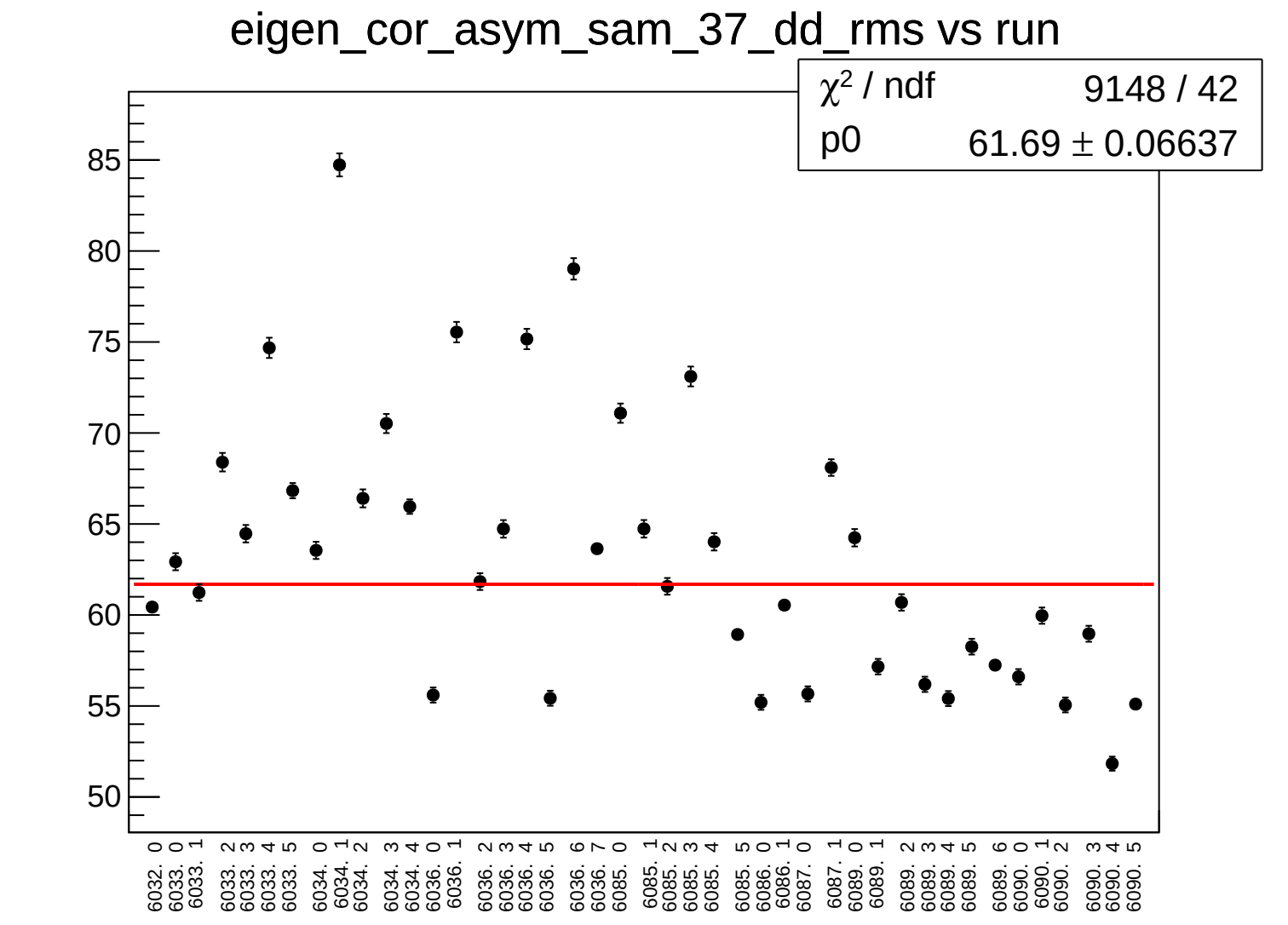

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 8868 / 42
p0 605 ± 0.6508
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 42.07 / 42
p0 −68.22 ± 93.86
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1116
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.001567
Std Dev 0.9891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 9148 / 42
p0 61.69 ± 0.06637
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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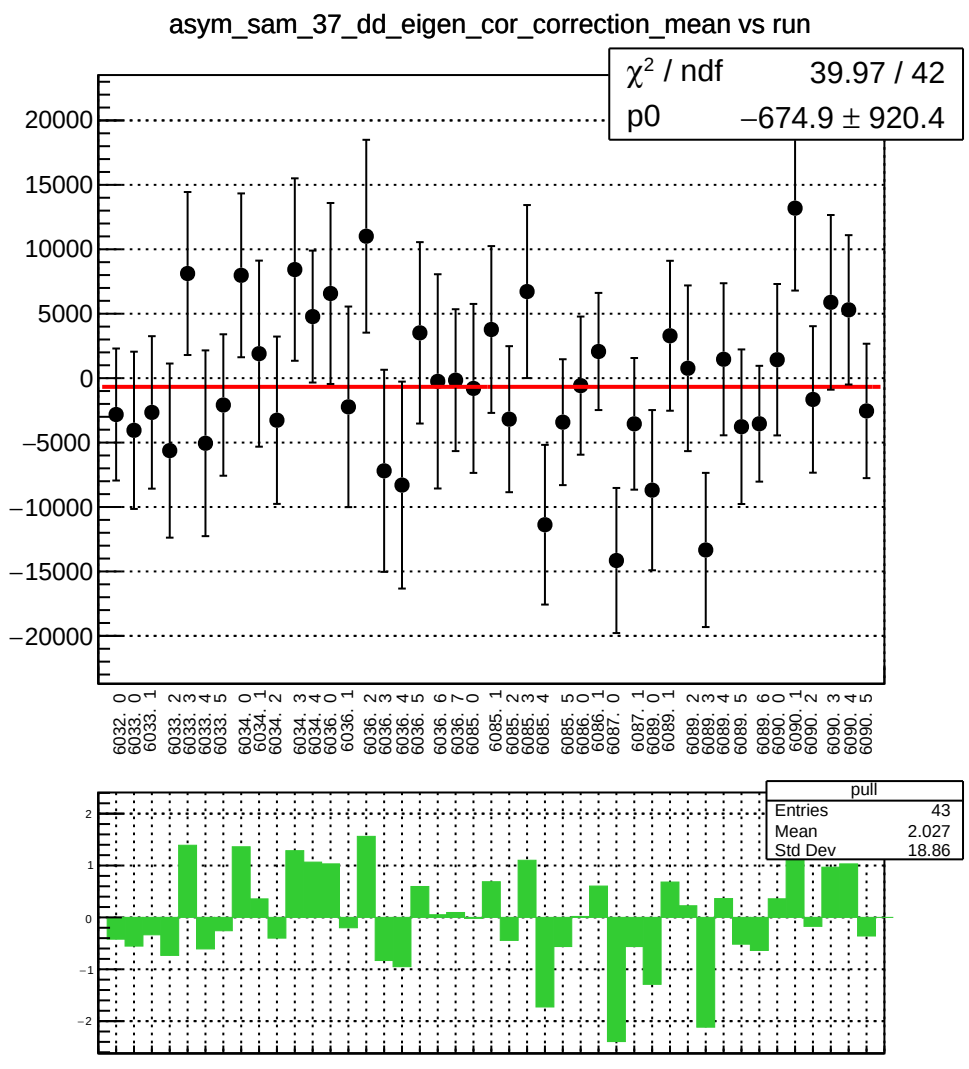
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.97 / 42
p0 −674.9 ± 920.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2.027
Std Dev 18.86
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02145
Std Dev 0.9638
9
8
7
6
5
4
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2
1
0
−8
−6
−4
−2
0
2
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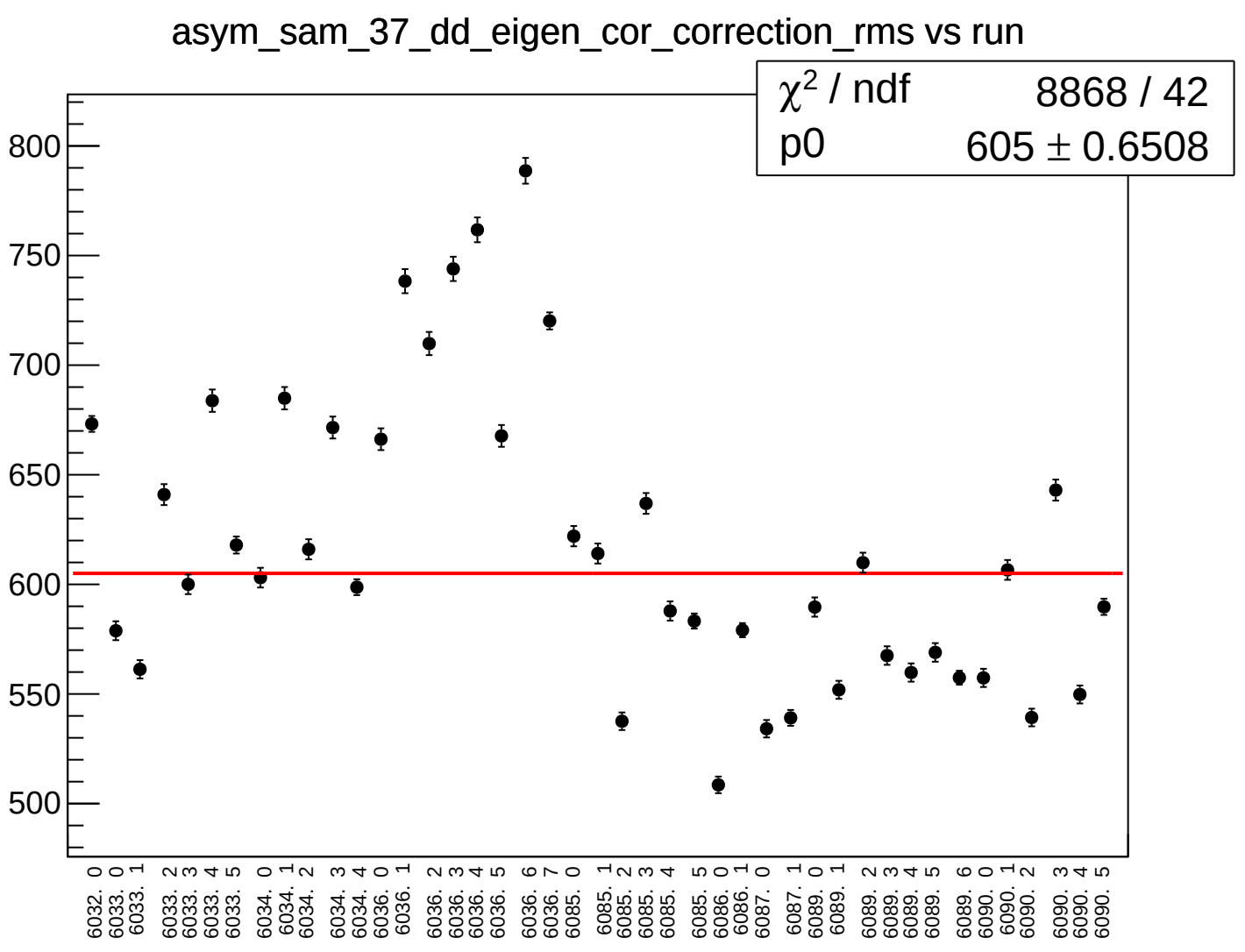
6
8


asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 8868 / 42
p0 605 ± 0.6508
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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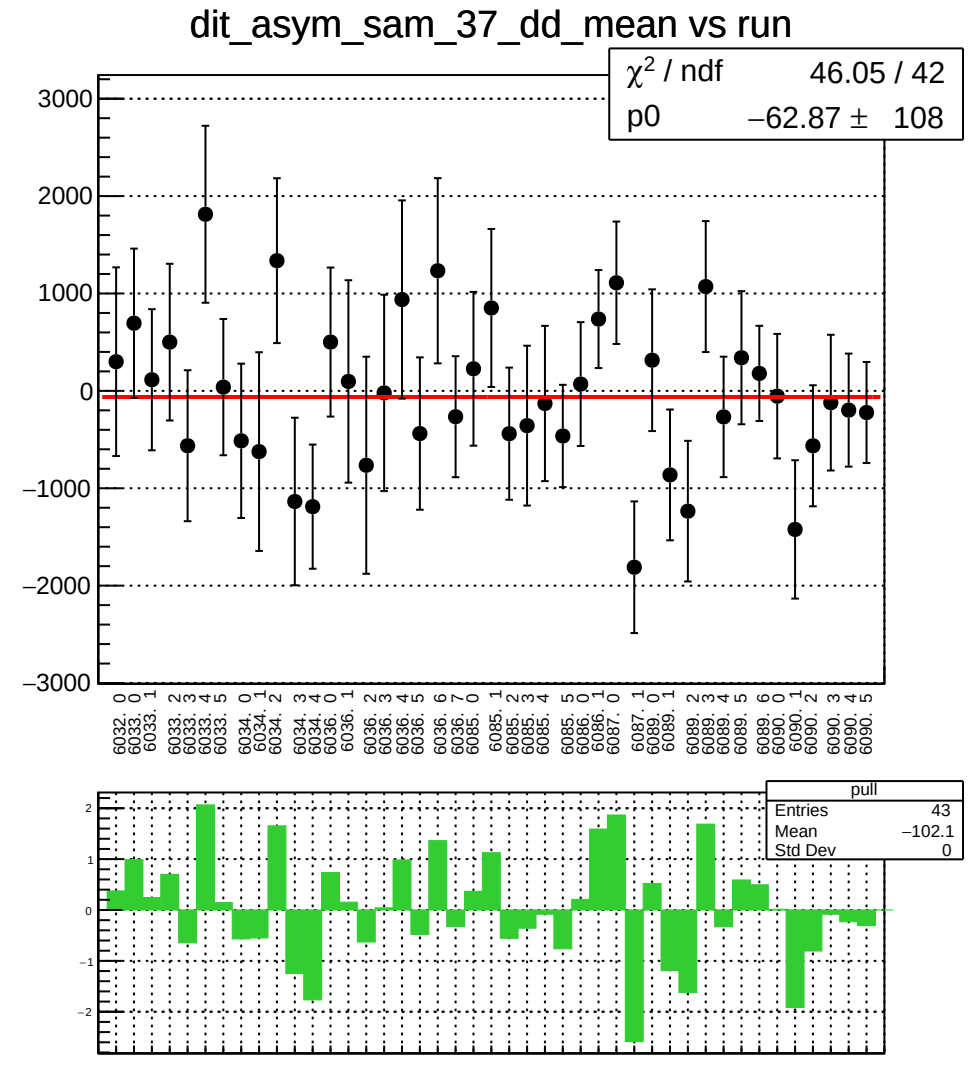
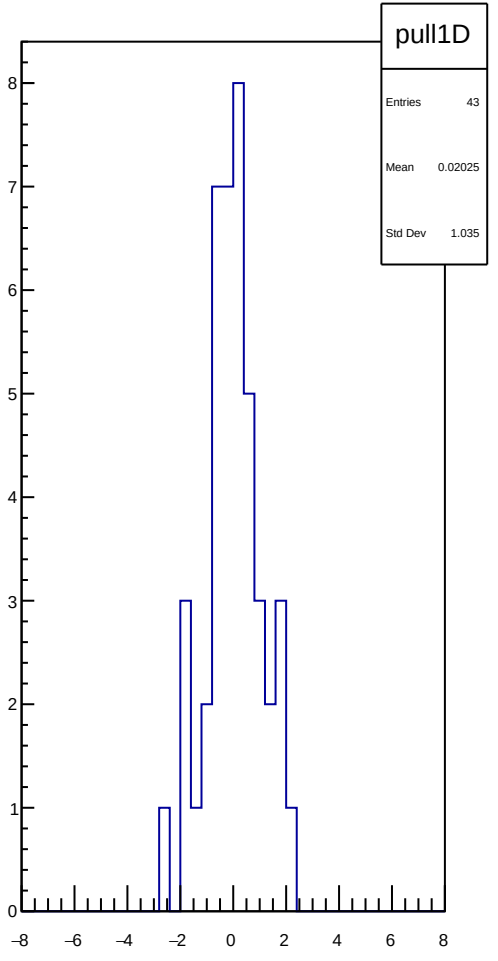
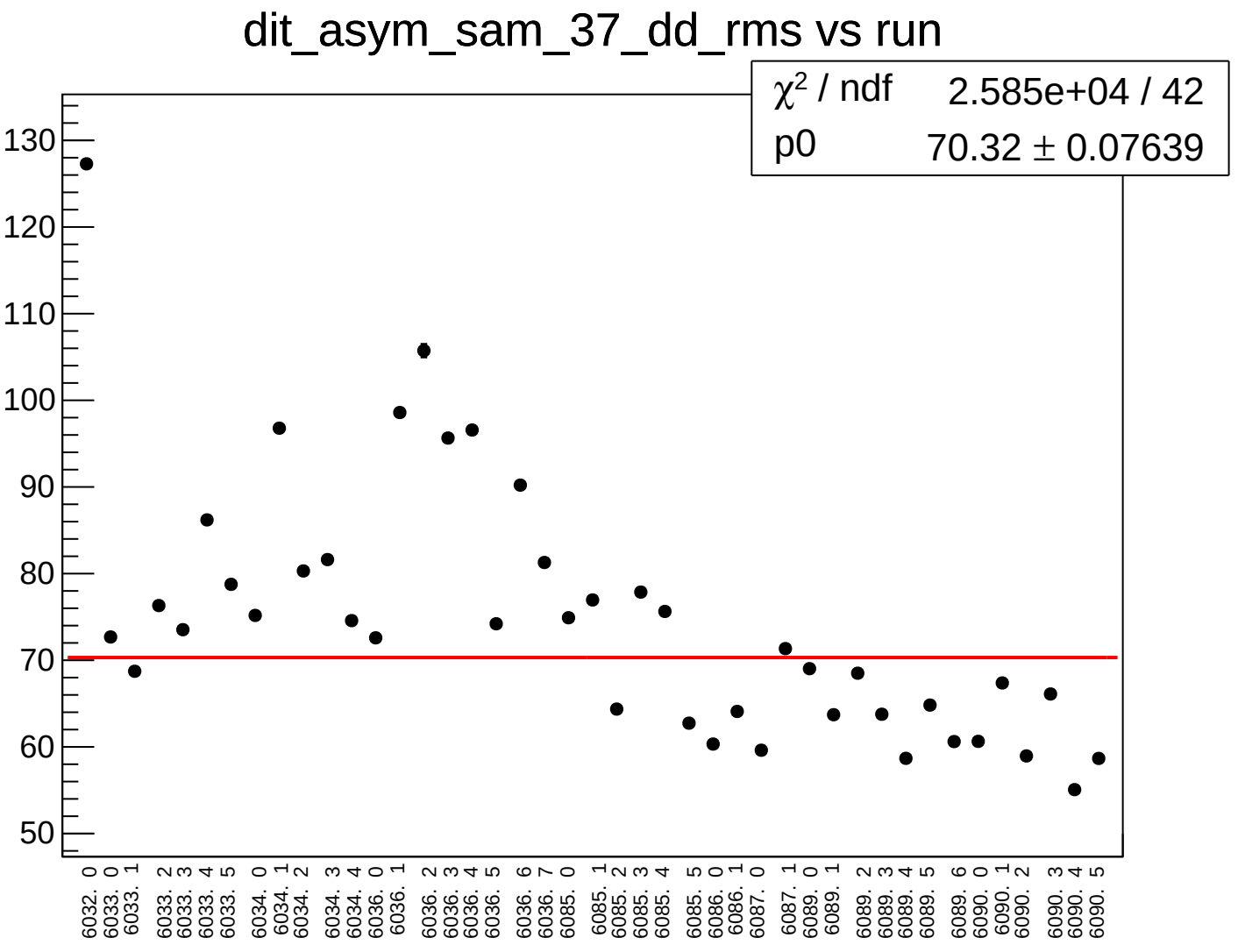
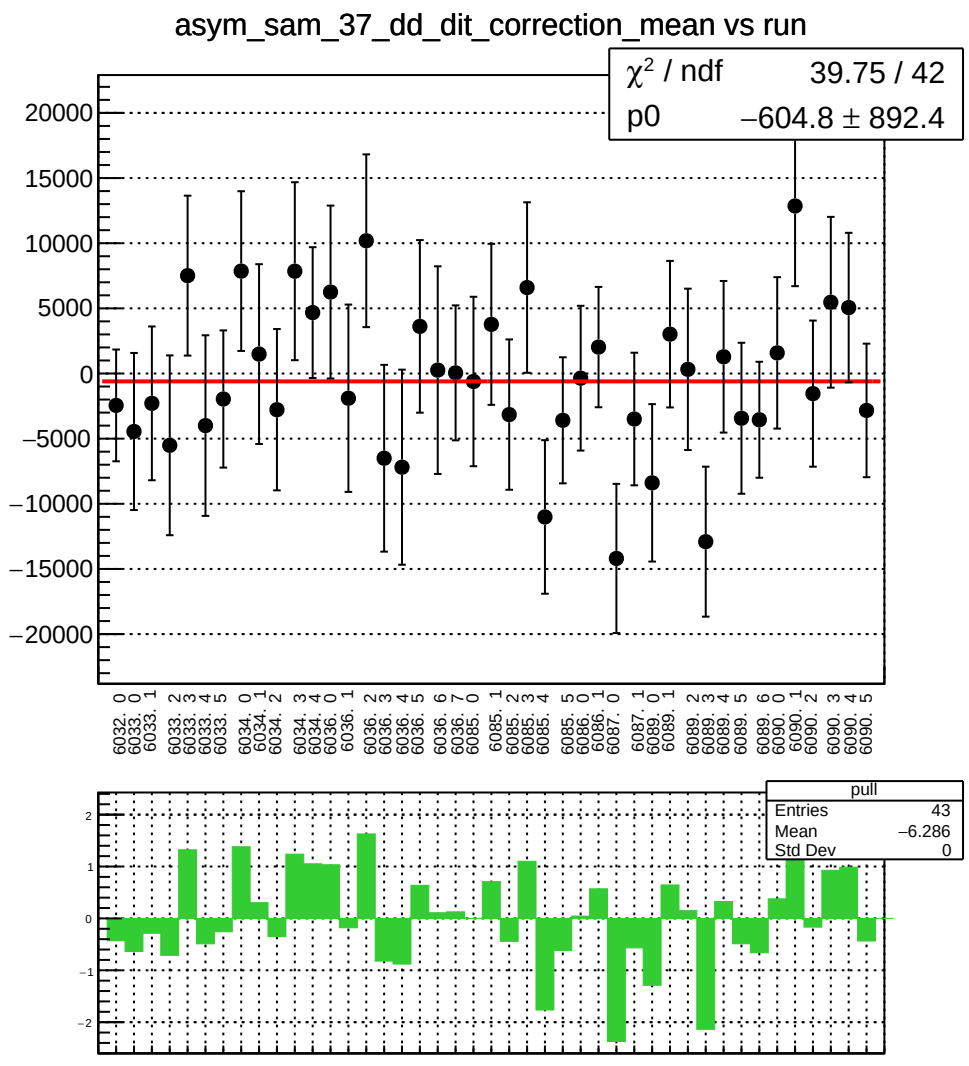
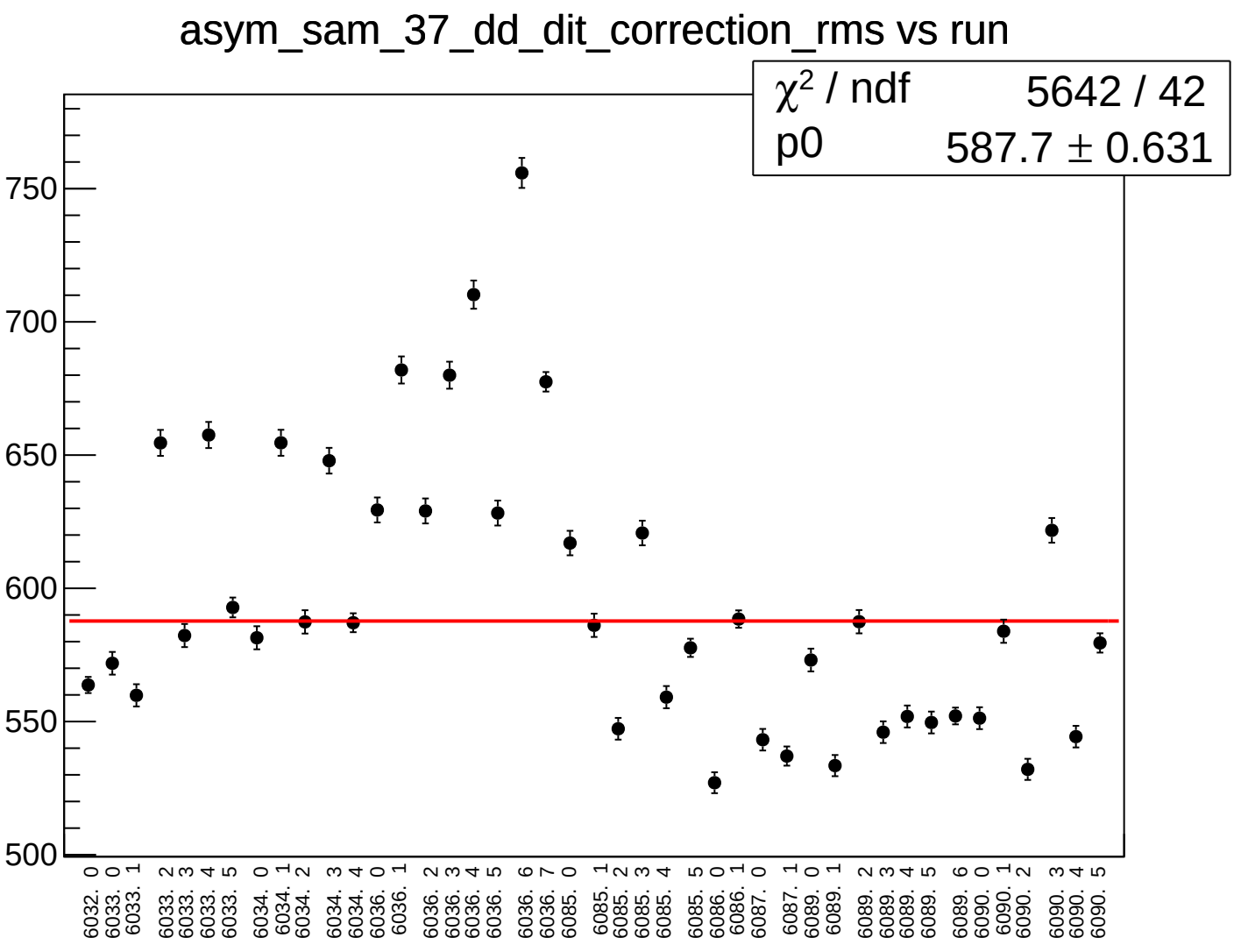
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

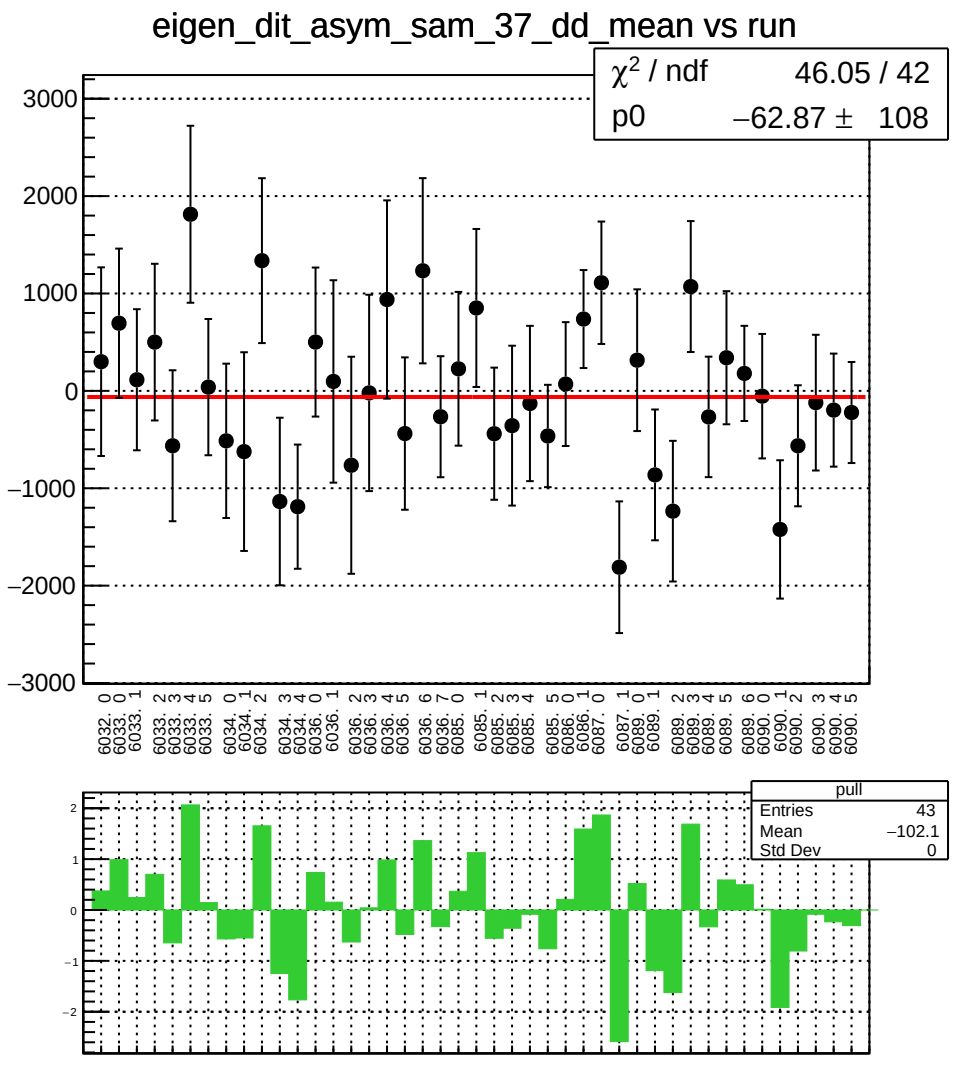

dit_asym_sam_37_dd_mean vs run
χ² / ndf 46.05 / 42
p0 −62.87 ± 108
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −102.1
Std Dev 0
2
1
0
−1
−2

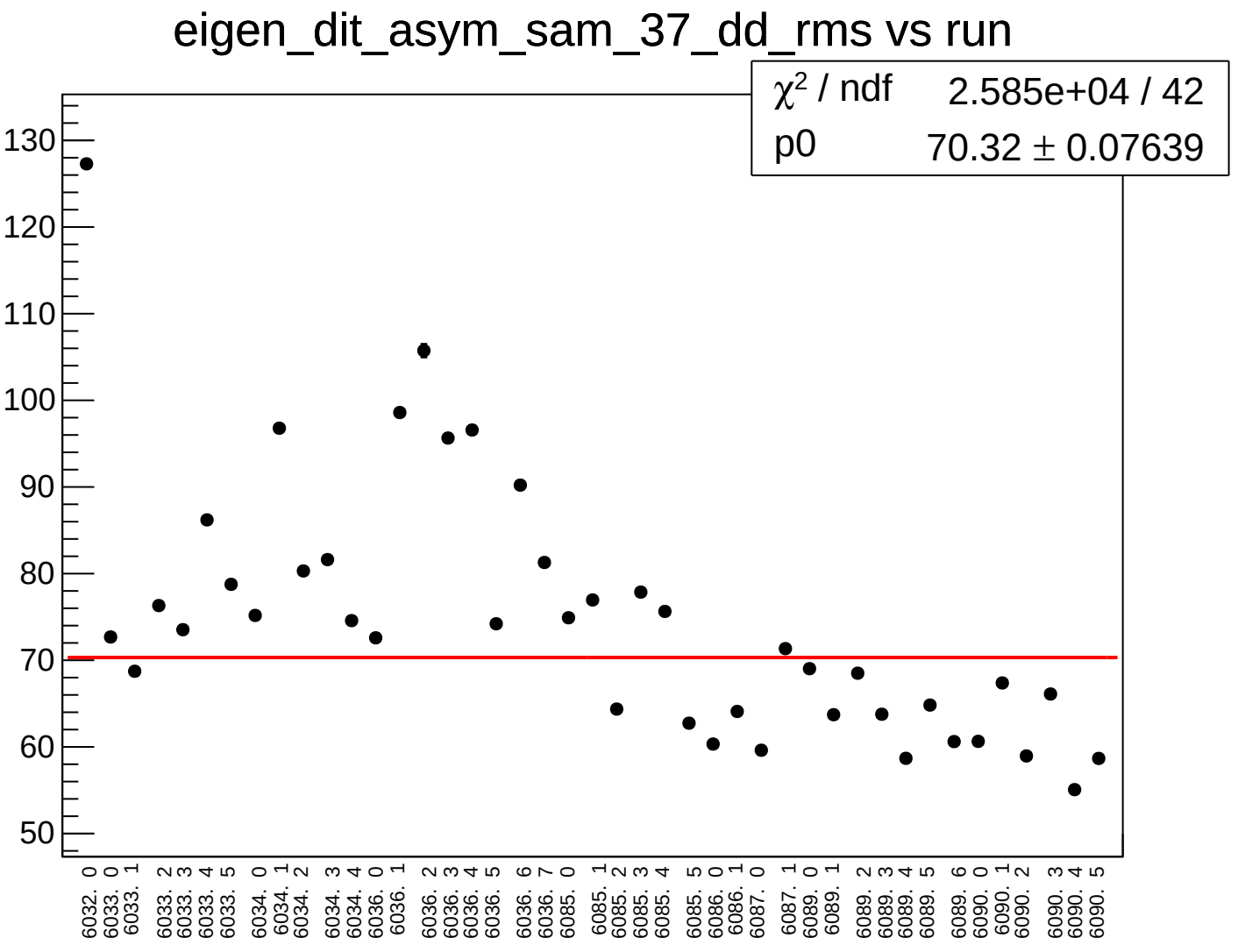

pull1D
Entries 43
Mean 0.02025
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

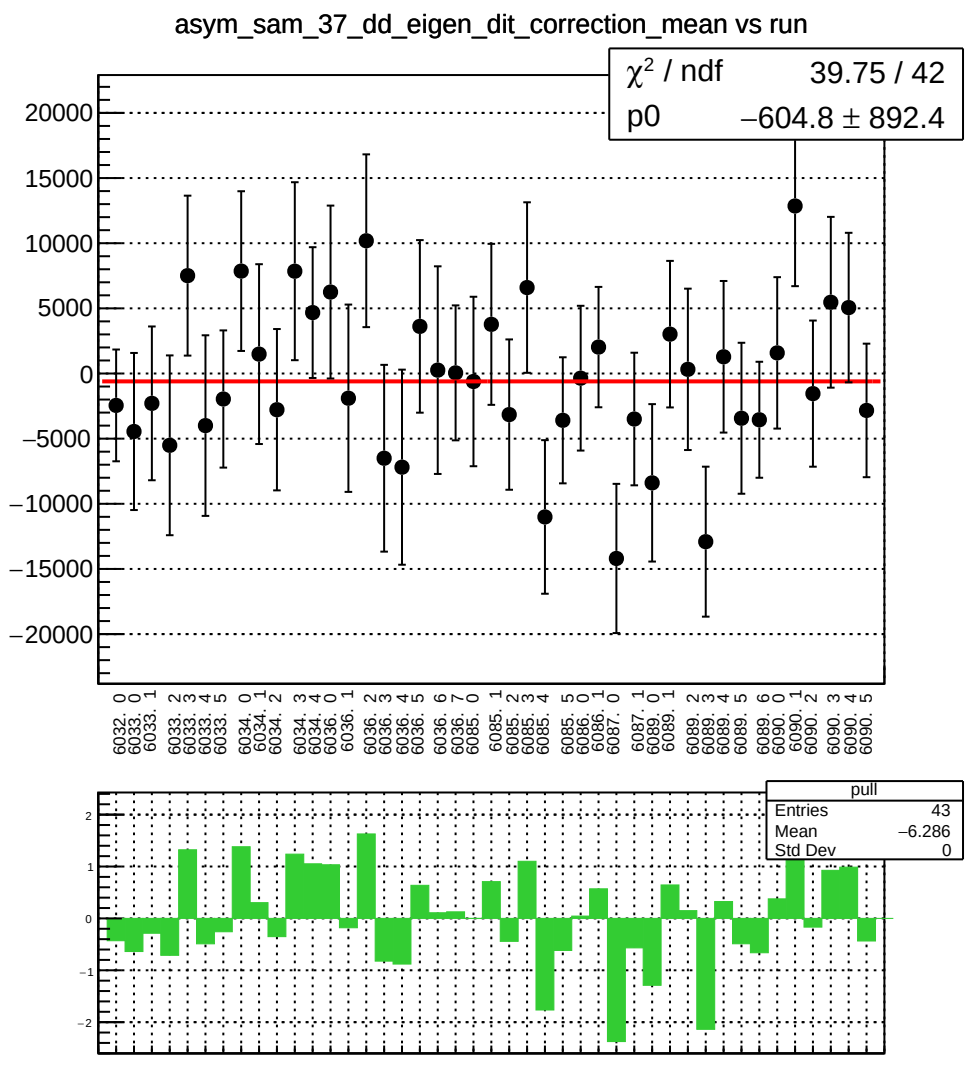

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.585e+04 / 42
p0 70.32 ± 0.07639
130
120
110
100
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

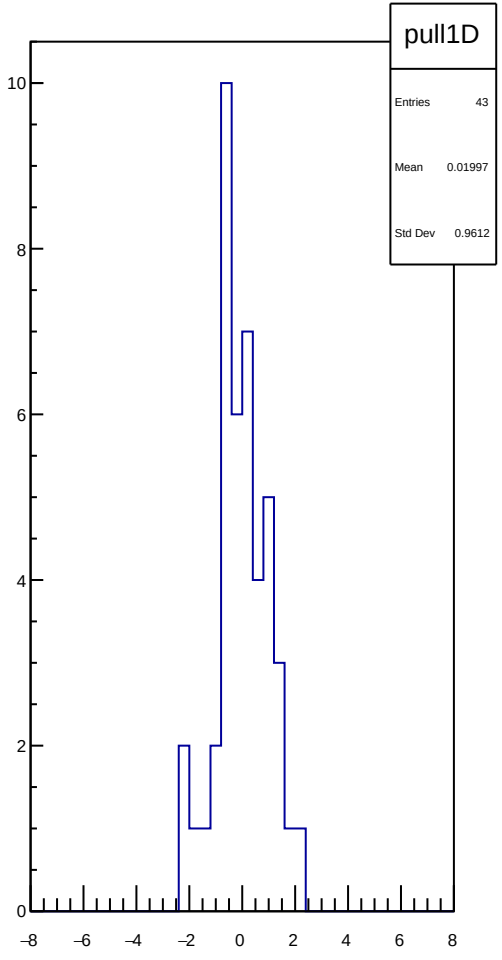

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 39.75 / 42
p0 −604.8 ± 892.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.286
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01997
Std Dev 0.9612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

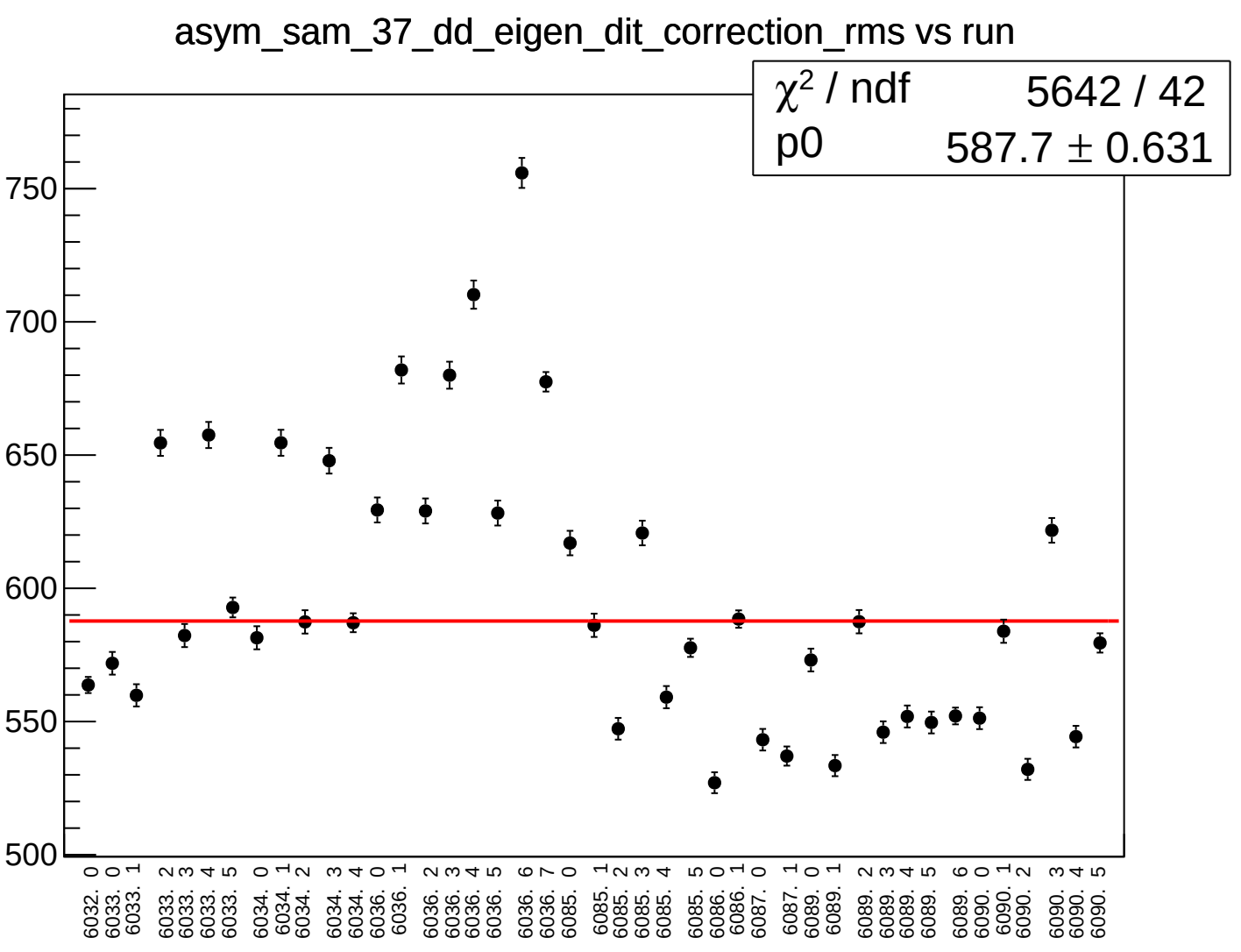

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 5642 / 42
p0 587.7 ± 0.631
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

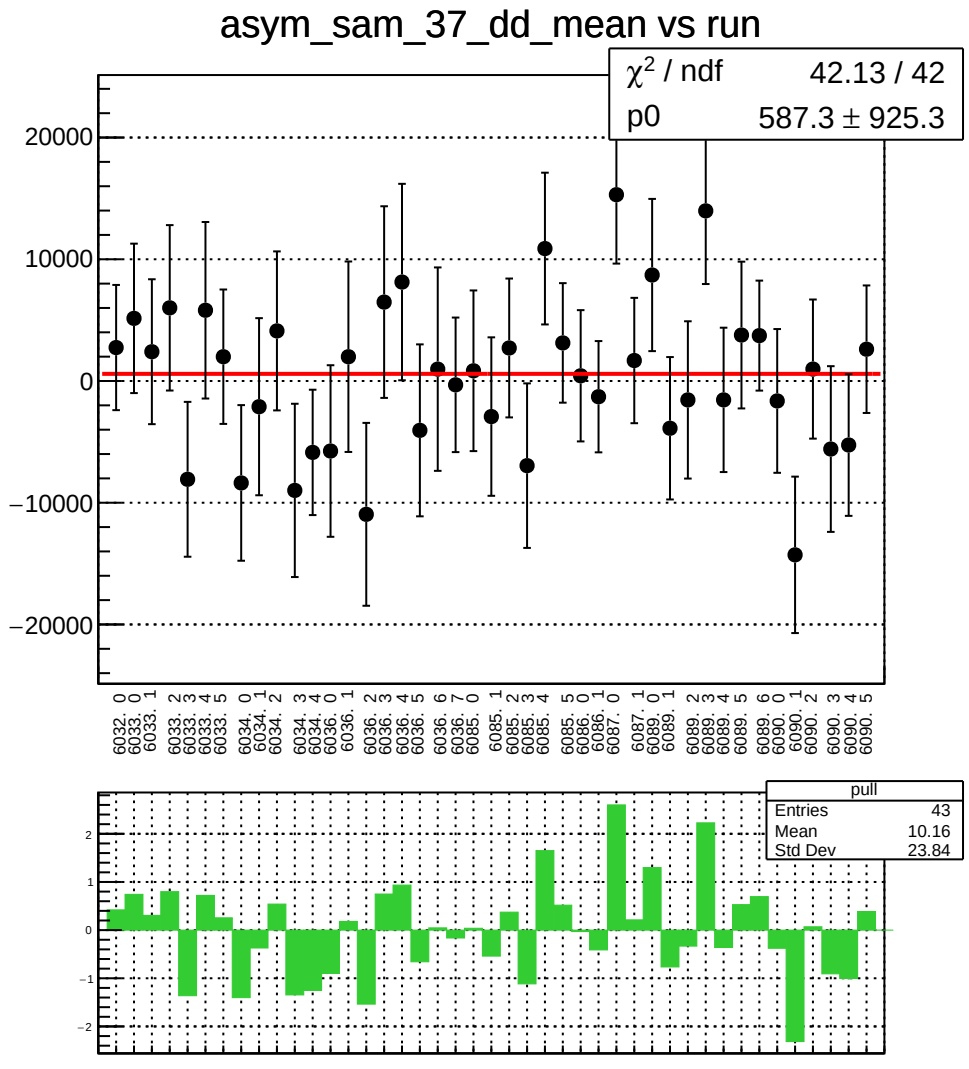

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 46.05 / 42
p0 −62.87 ± 108
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −102.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02025
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

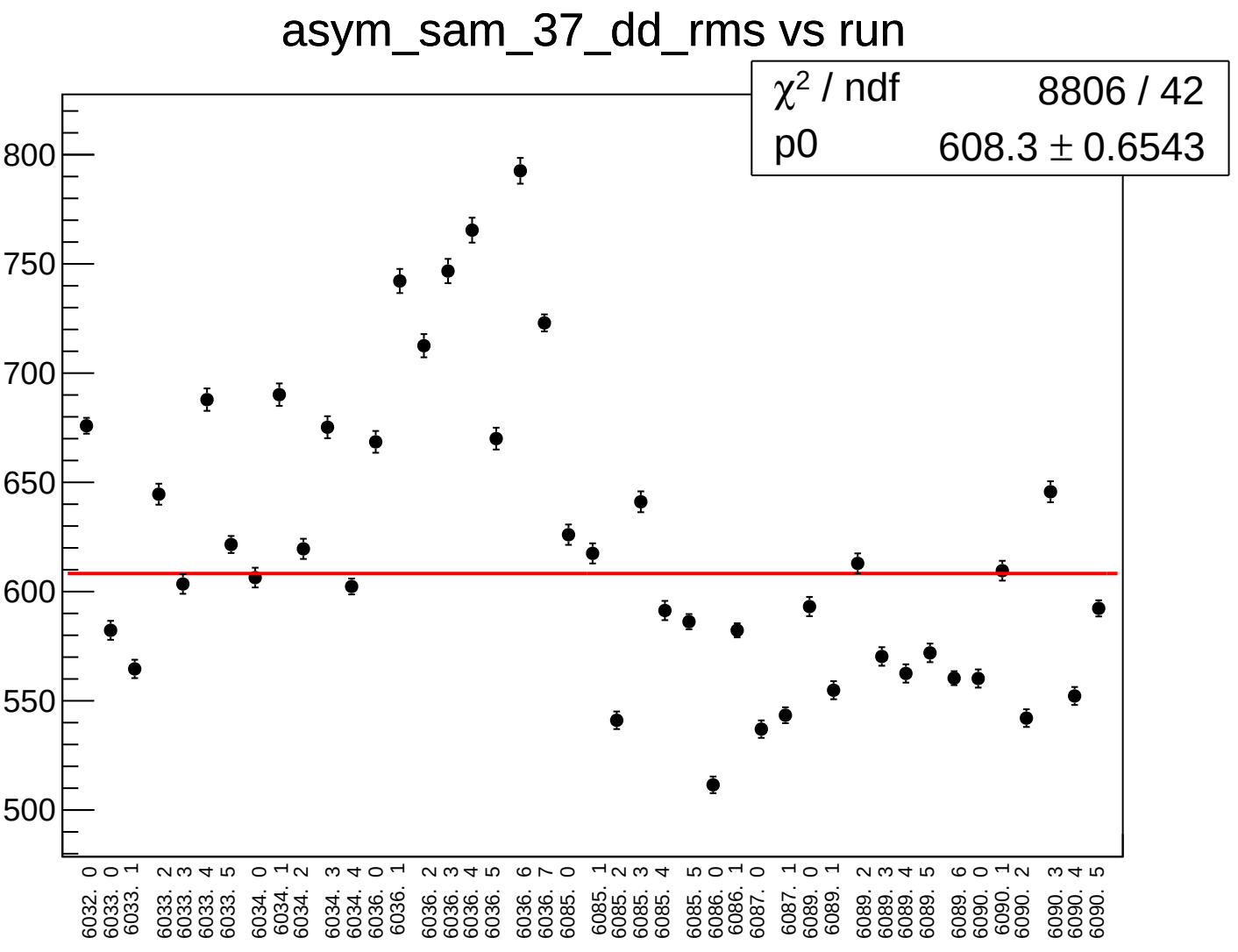

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.585e+04 / 42
p0 70.32 ± 0.07639
130
120
110
100
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

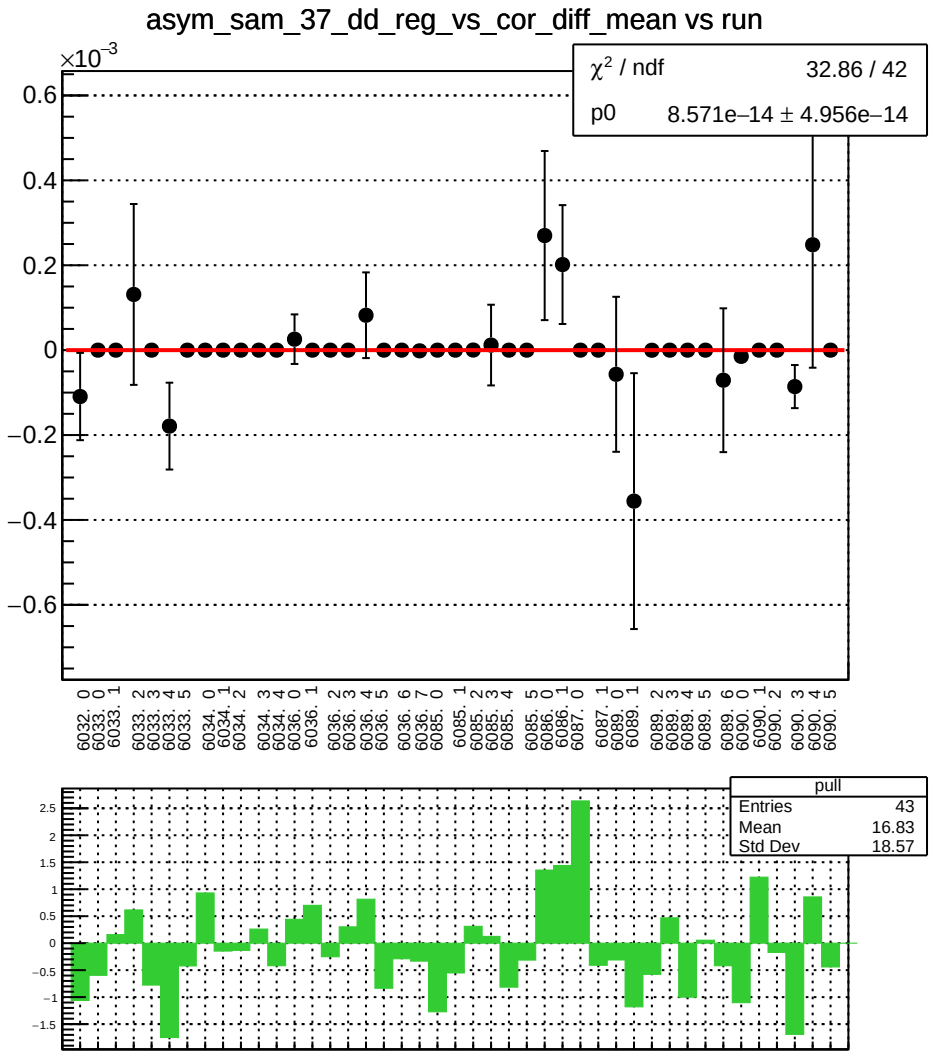

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.75 / 42
p0 −604.8 ± 892.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.286
Std Dev 0
2
1
0
−1
−2

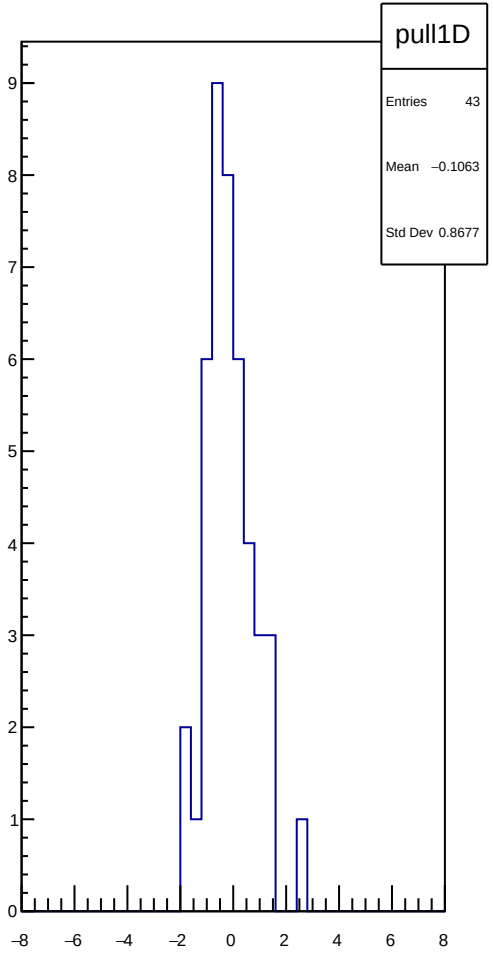

pull1D
Entries 43
Mean 0.01997
Std Dev 0.9612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

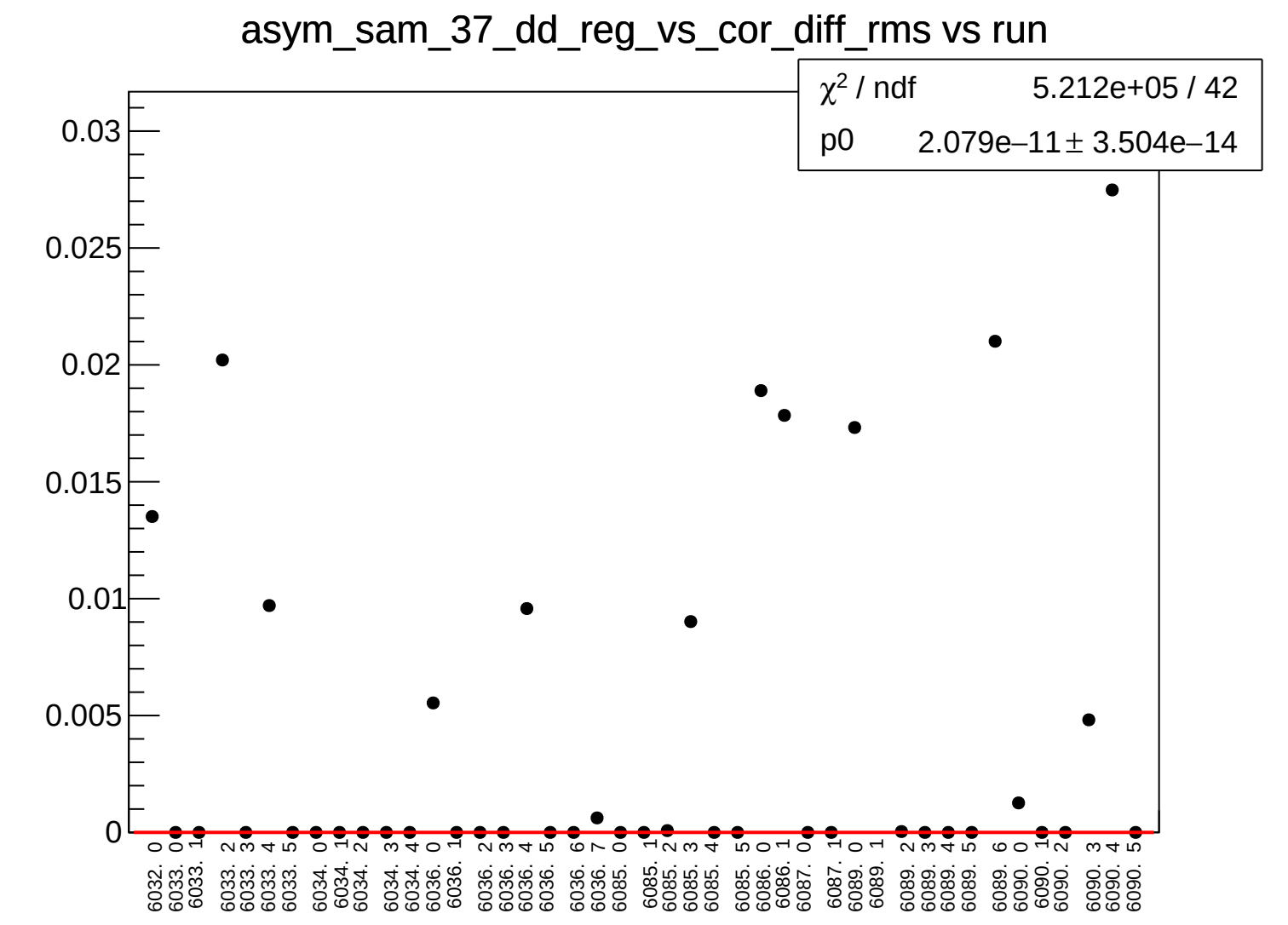

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5642 / 42
p0 587.7 ± 0.631
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

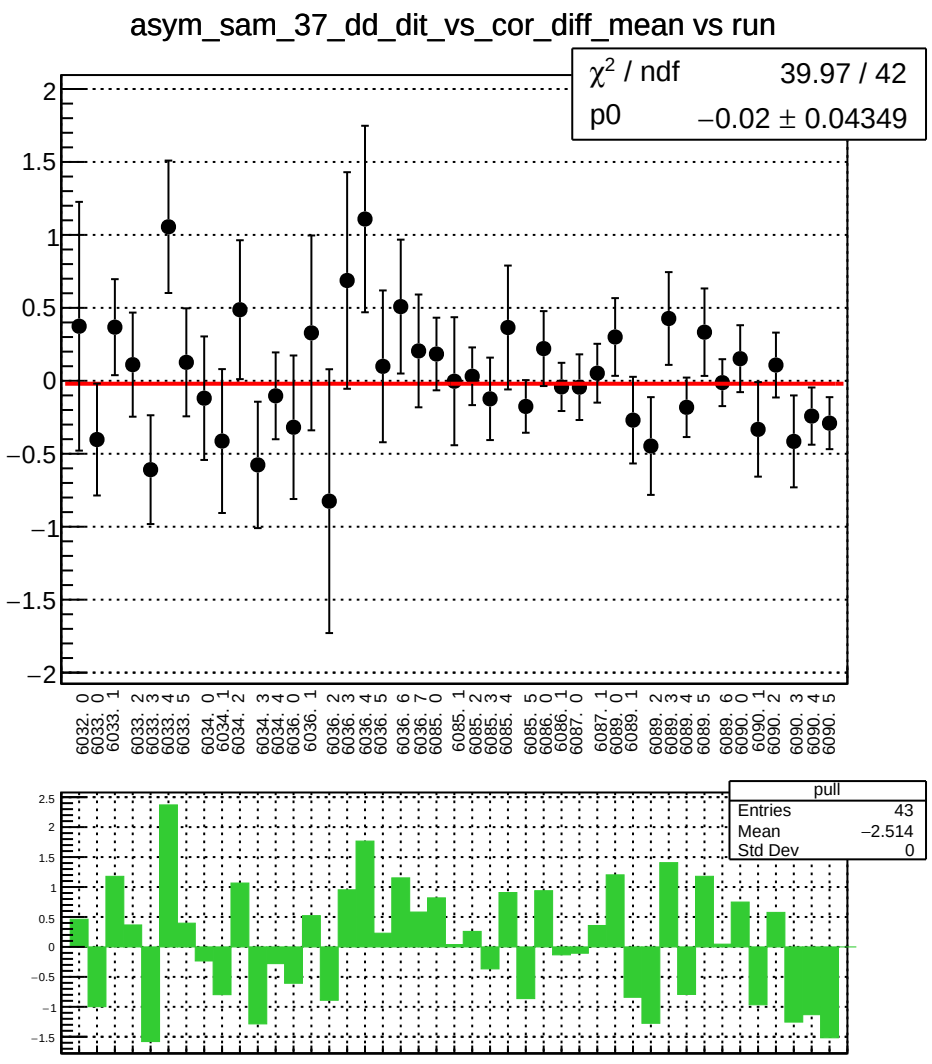

asym_sam_37_dd_mean vs run
χ² / ndf 42.13 / 42
p0 587.3 ± 925.3
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.16
Std Dev 23.84
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0198
Std Dev 0.9896
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

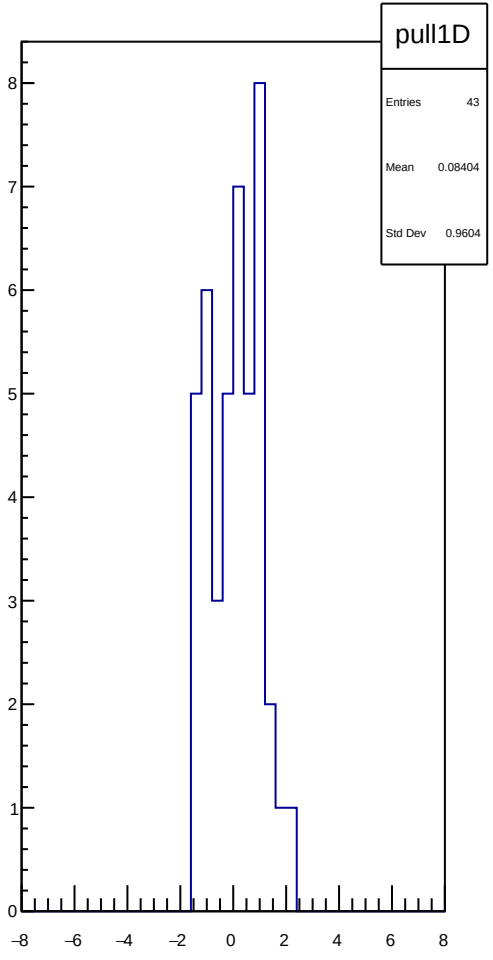

asym_sam_37_dd_rms vs run
χ² / ndf 8806 / 42
p0 608.3 ± 0.6543
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

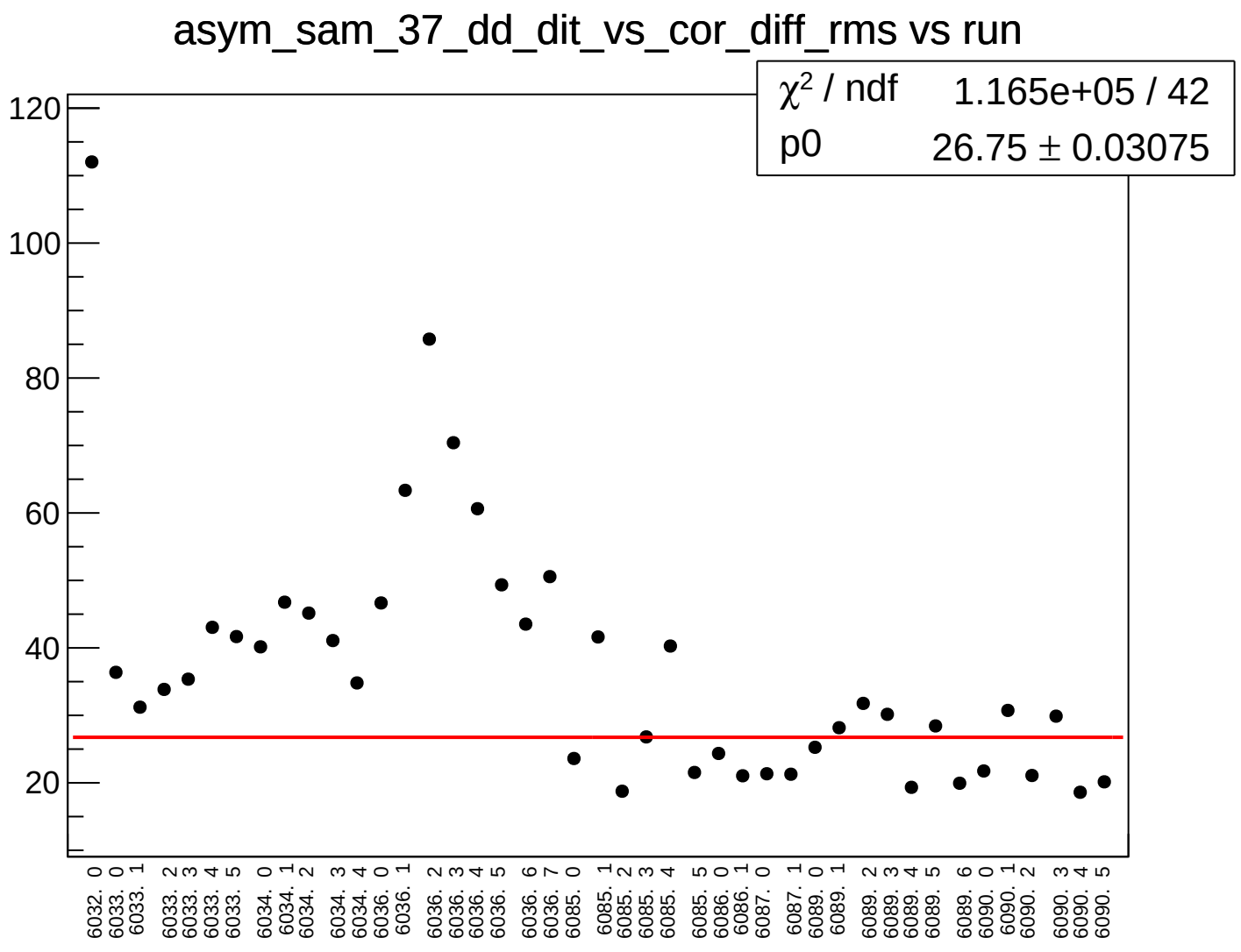

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 32.86 / 42
p0 8.571e−14 ± 4.956e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.83
Std Dev 18.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

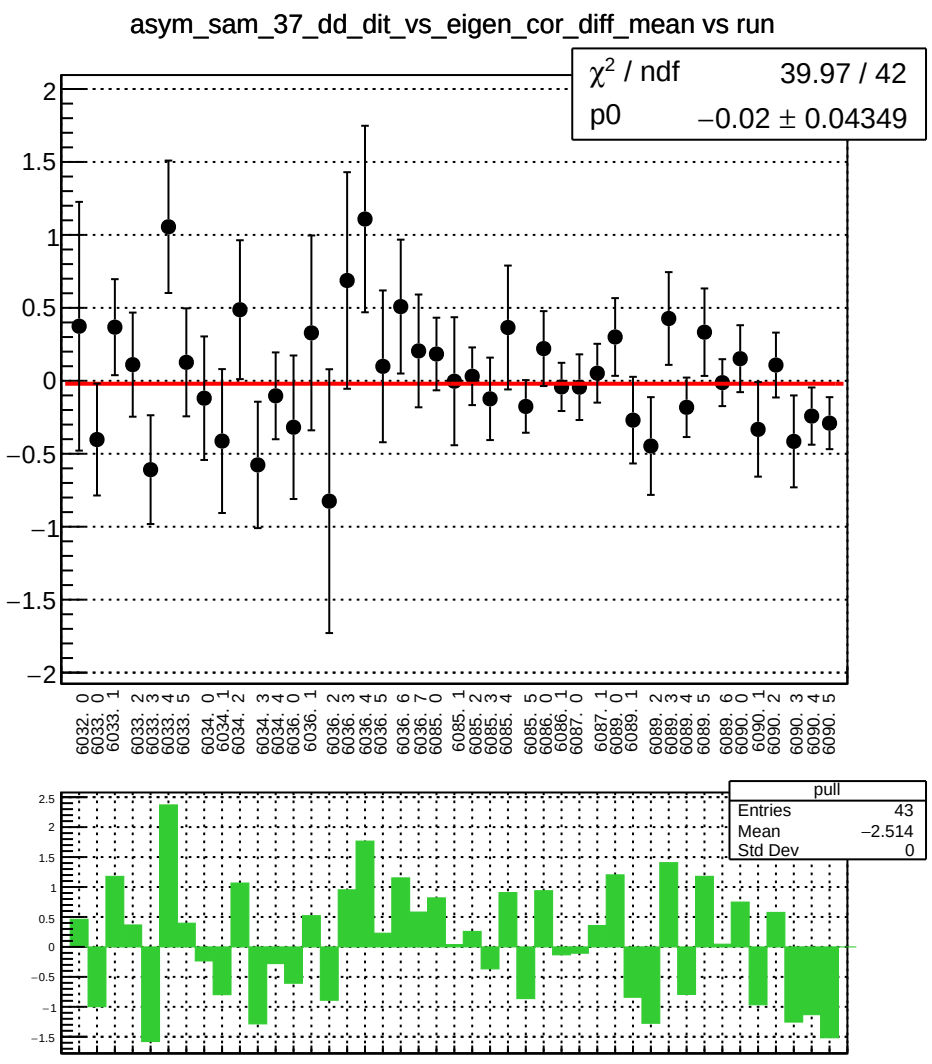

pull1D
Entries 43
Mean −0.1063
Std Dev 0.8677
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

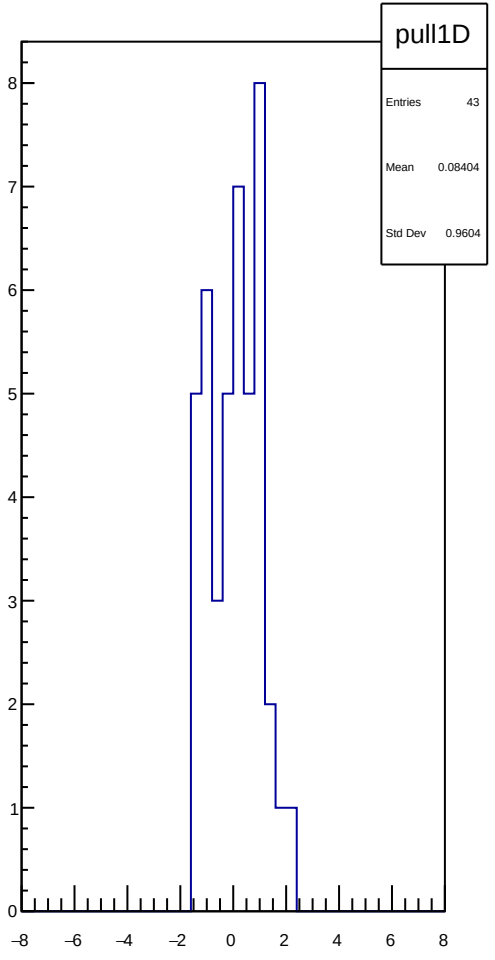

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.212e+05 / 42
p0 2.079e−11 ± 3.504e−14
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

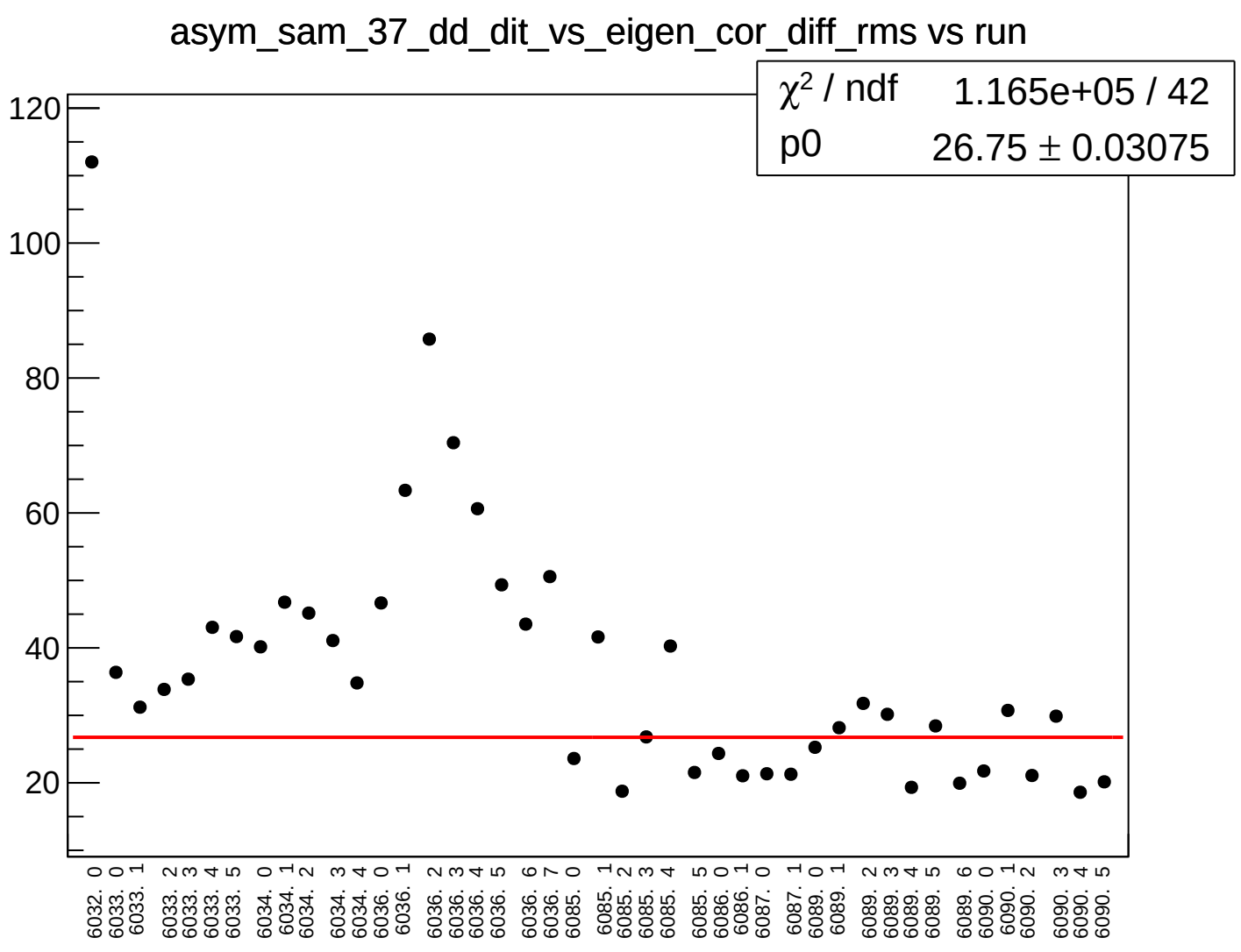

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.97 / 42
p0 −0.02 ± 0.04349
pull
Entries 43
Mean −2.514
Std Dev 0

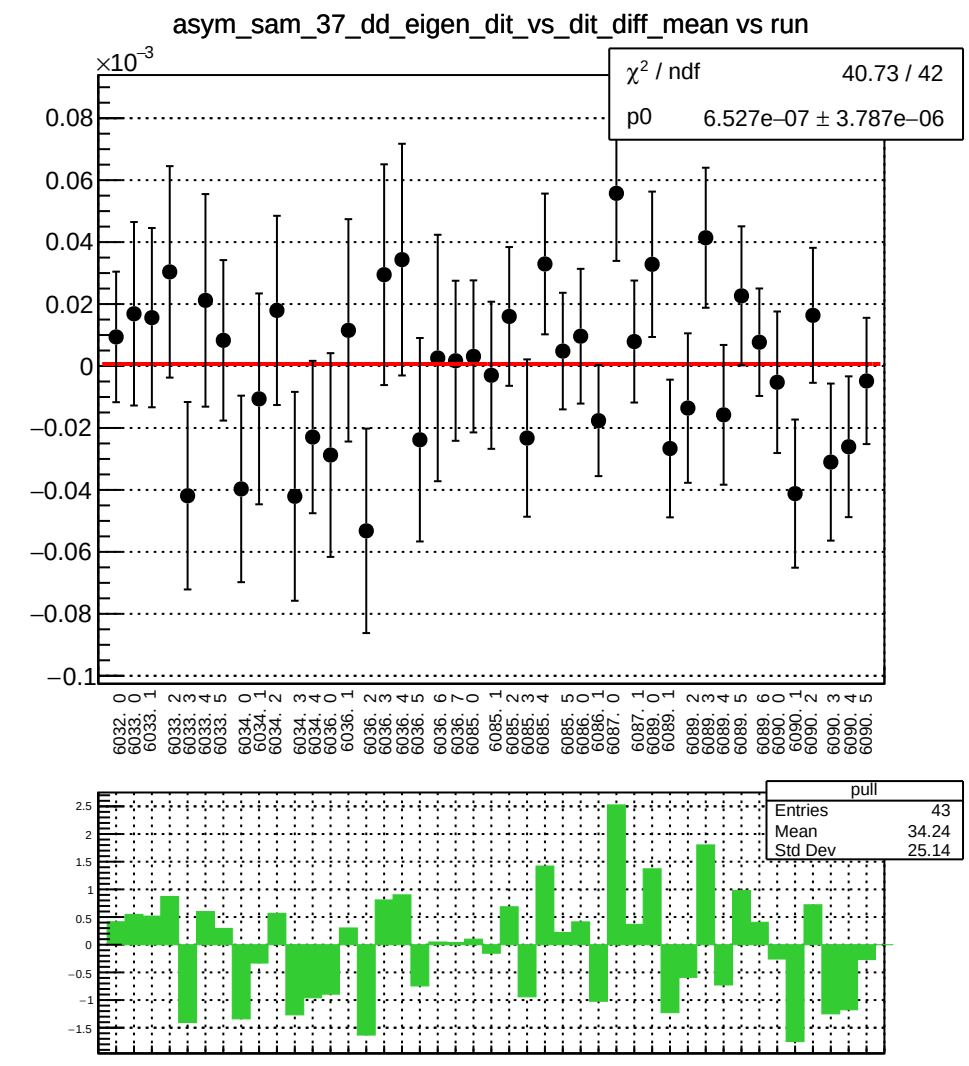

pull1D
Entries 43
Mean 0.08404
Std Dev 0.9604

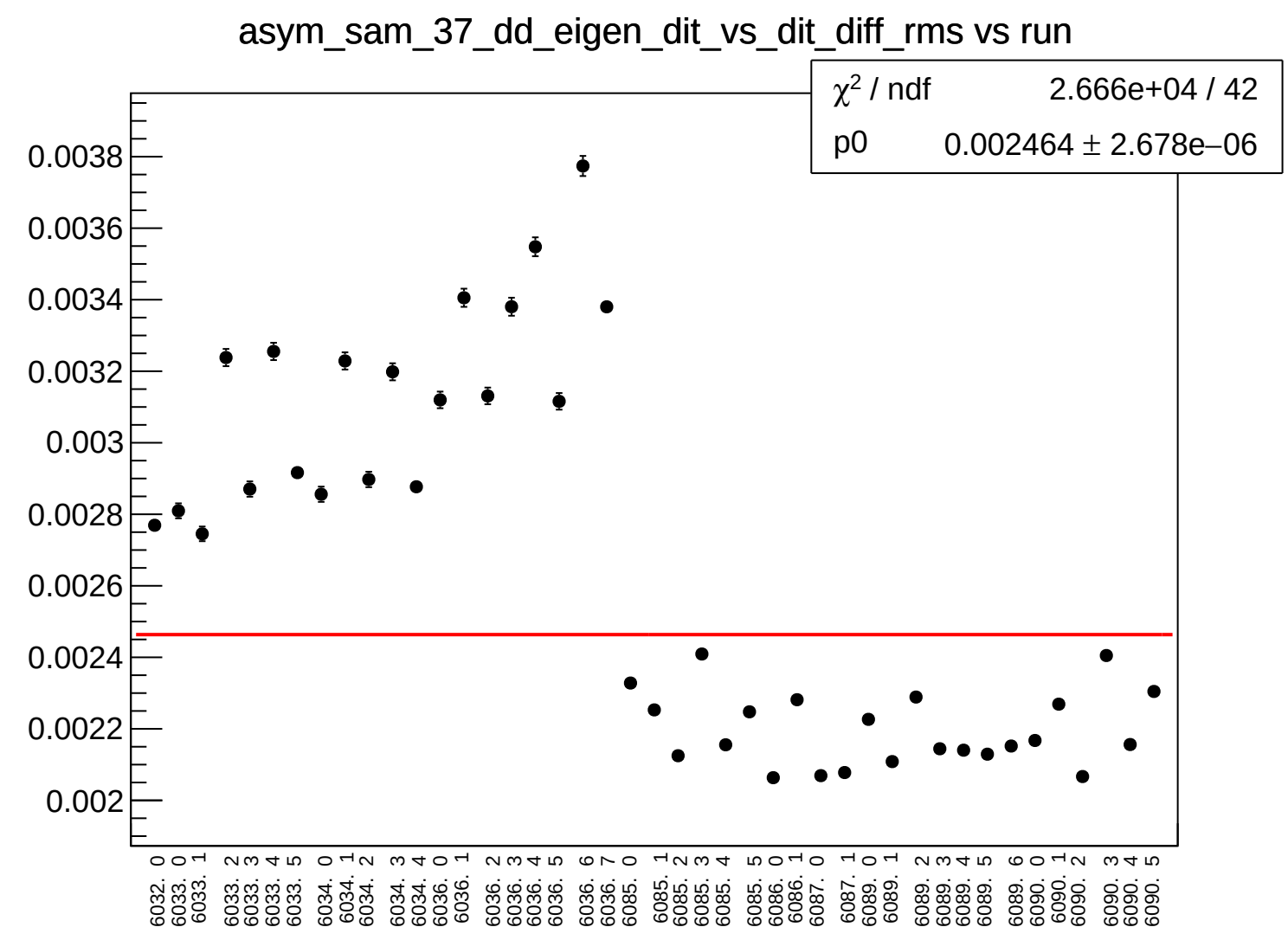

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 42
p0 26.75 ± 0.03075
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

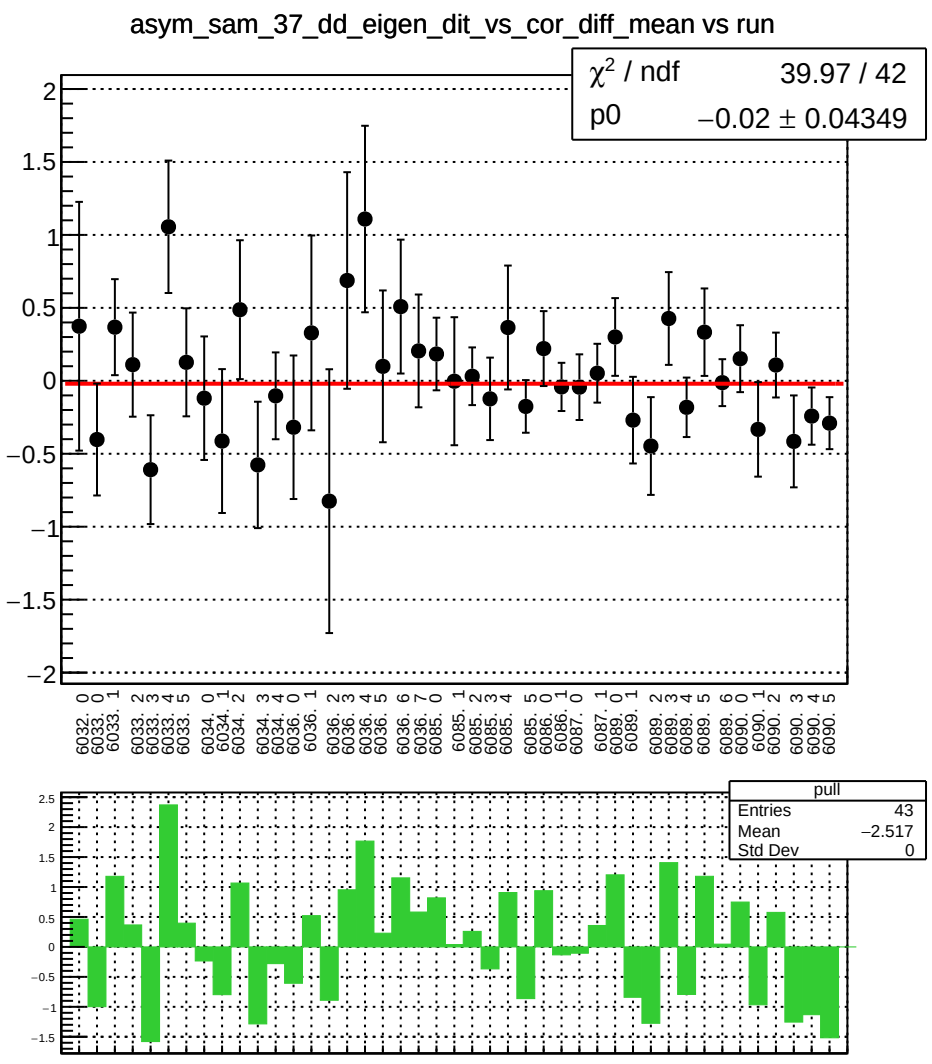

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.97 / 42
p0 −0.02 ± 0.04349
pull
Entries 43
Mean −2.514
Std Dev 0

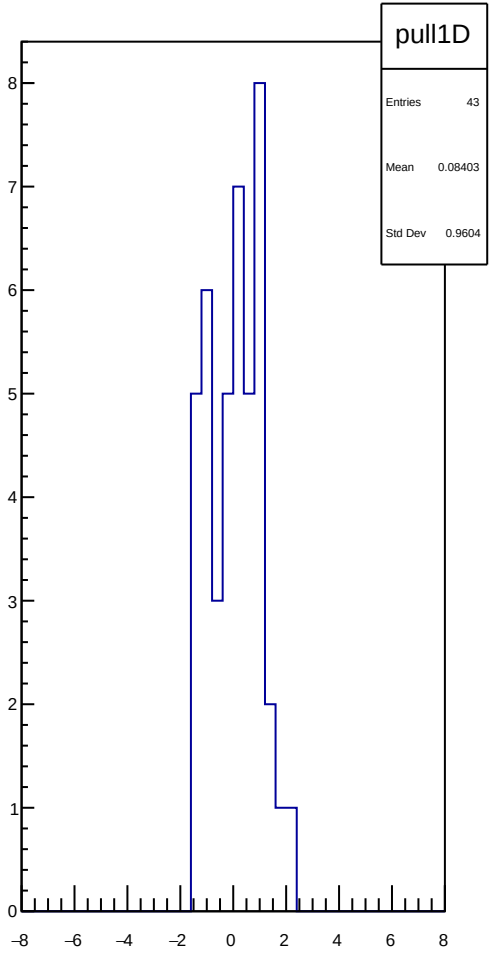

pull1D
Entries 43
Mean 0.08404
Std Dev 0.9604

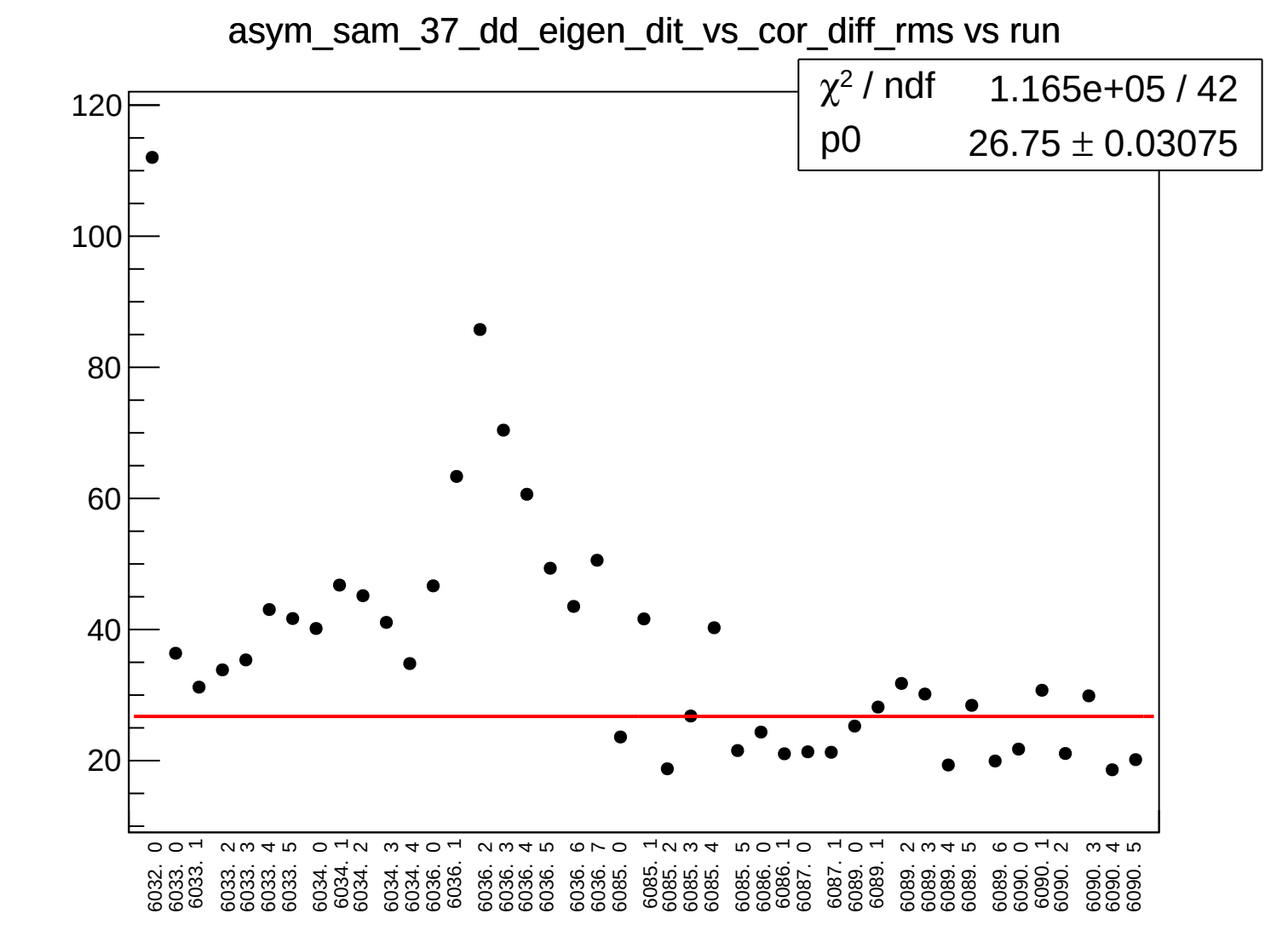

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 42
p0 26.75 ± 0.03075
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.73 / 42
p0 6.527e−07 ± 3.787e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 34.24
Std Dev 25.14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02346
Std Dev 0.973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.666e+04 / 42
p0 0.002464 ± 2.678e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.97 / 42
p0 −0.02 ± 0.04349
pull
Entries 43
Mean −2.517
Std Dev 0


pull1D
Entries 43
Mean 0.08403
Std Dev 0.9604


asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 42
p0 26.75 ± 0.03075
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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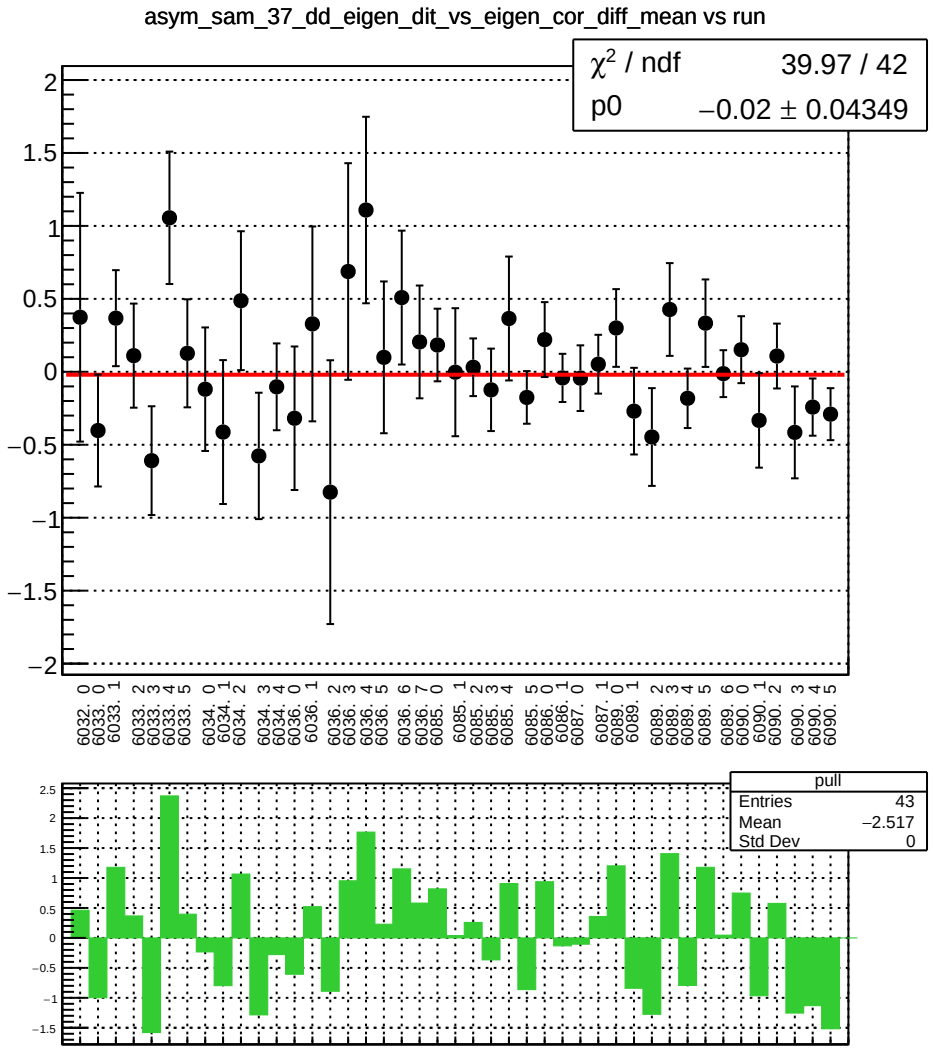
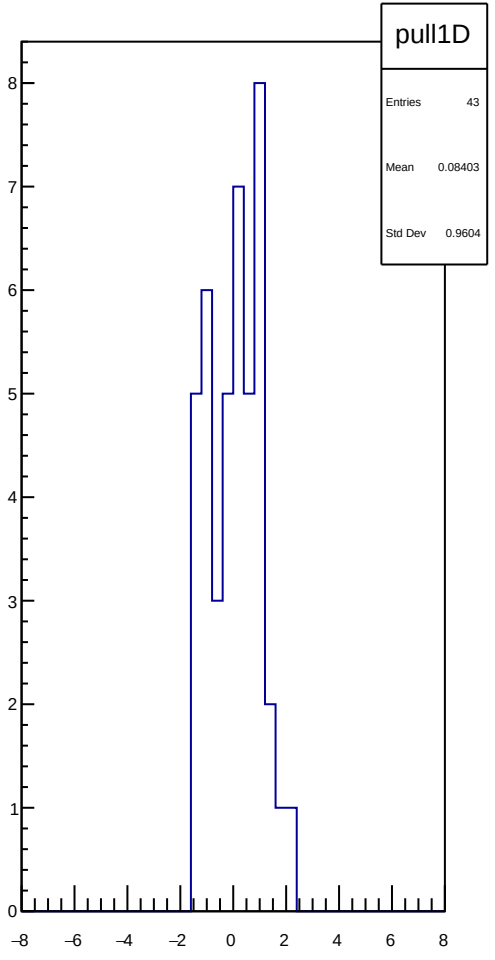
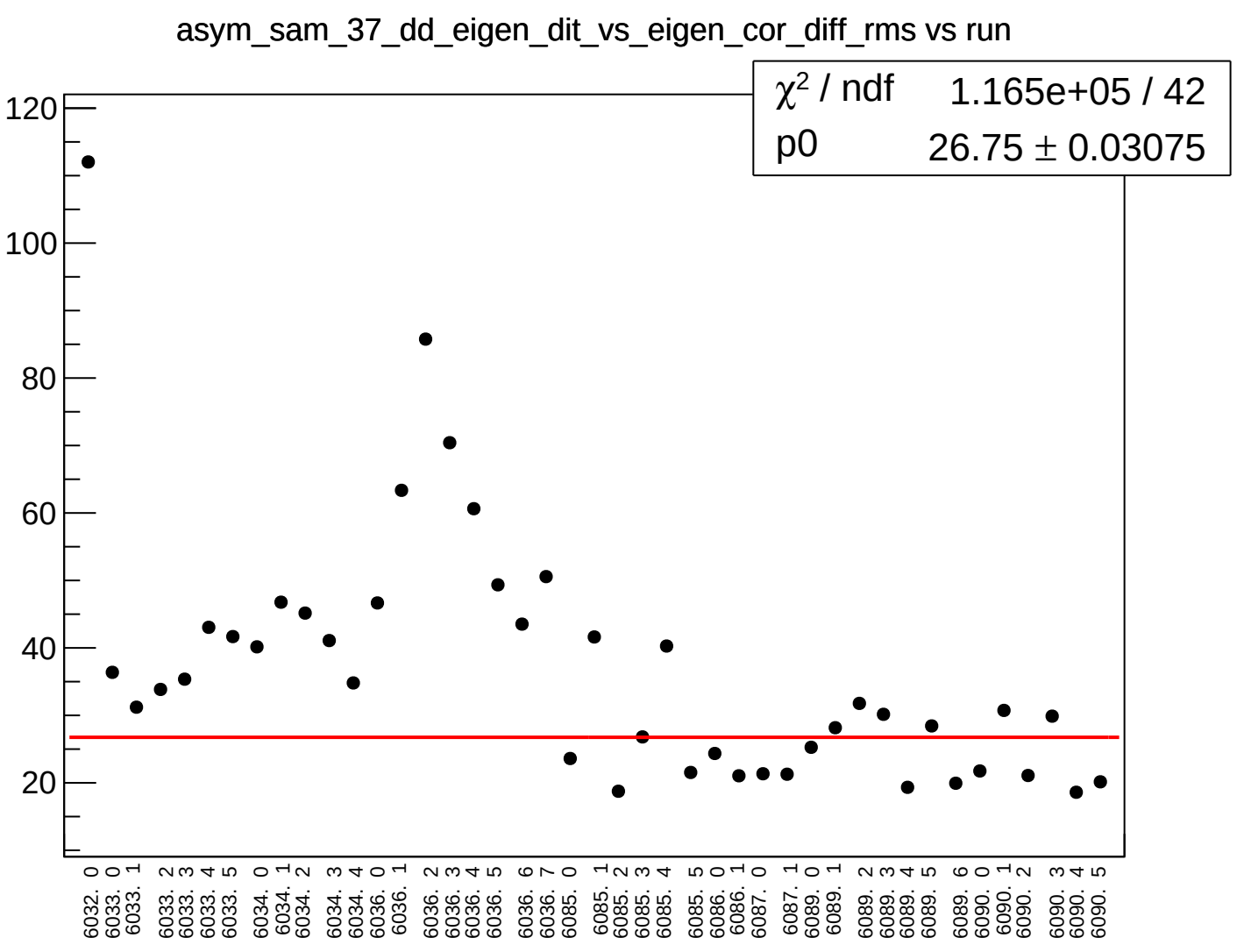
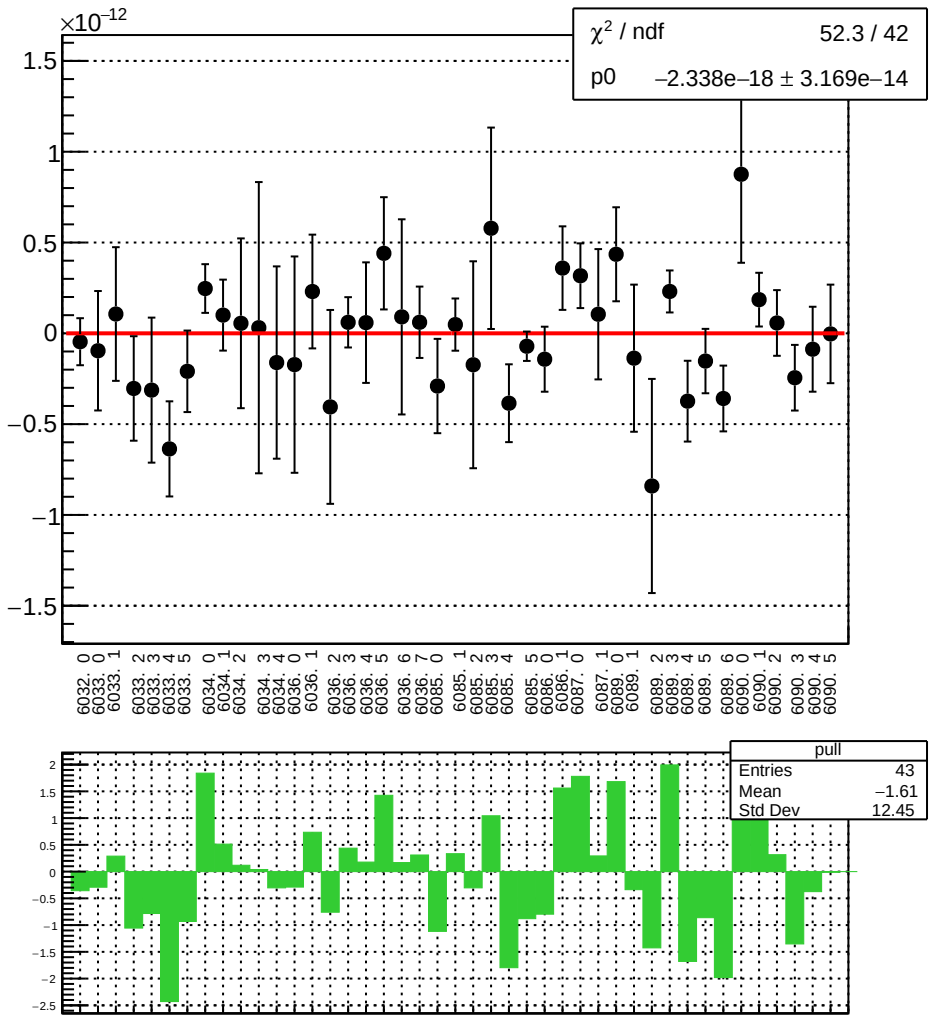
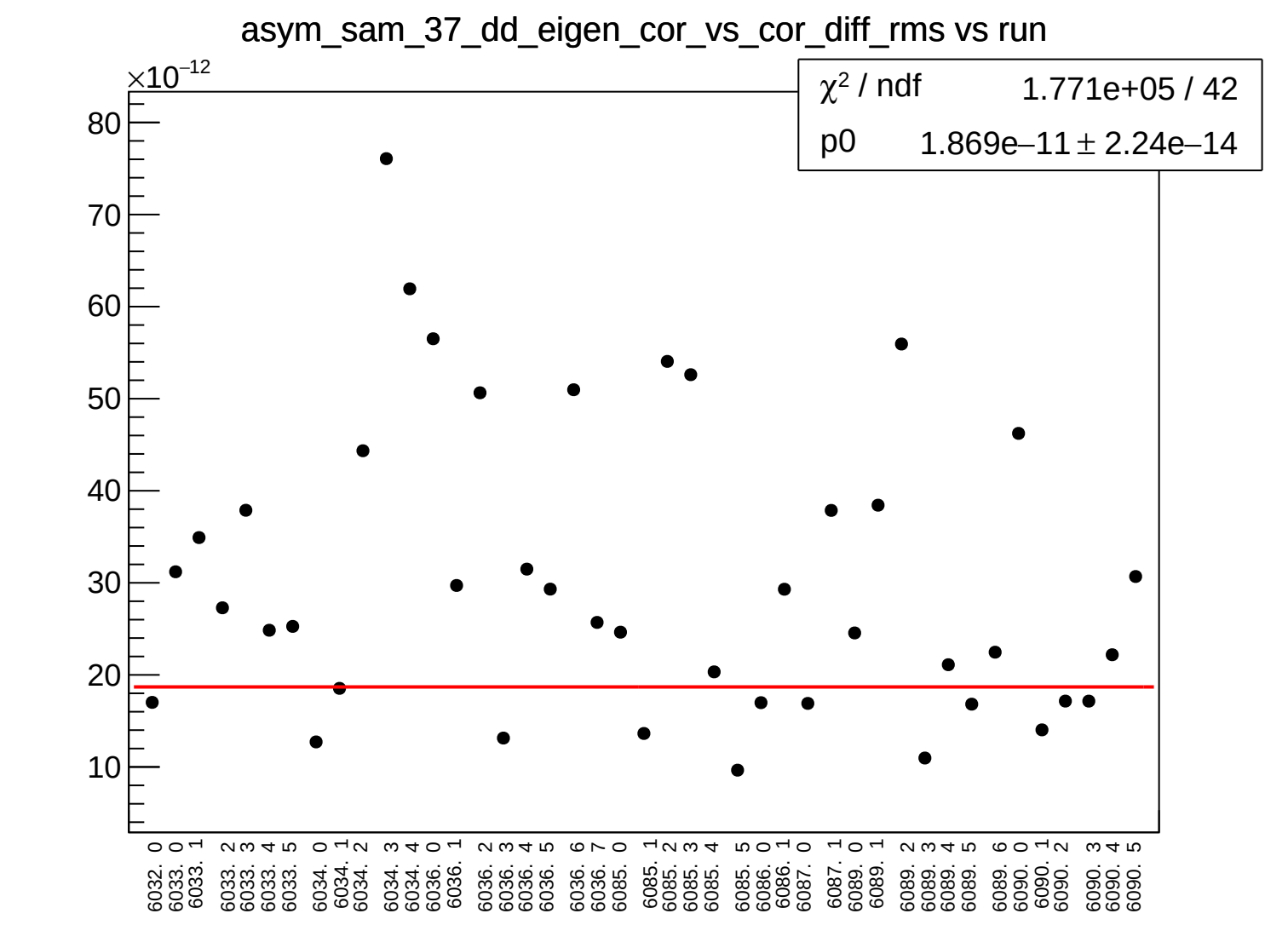
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

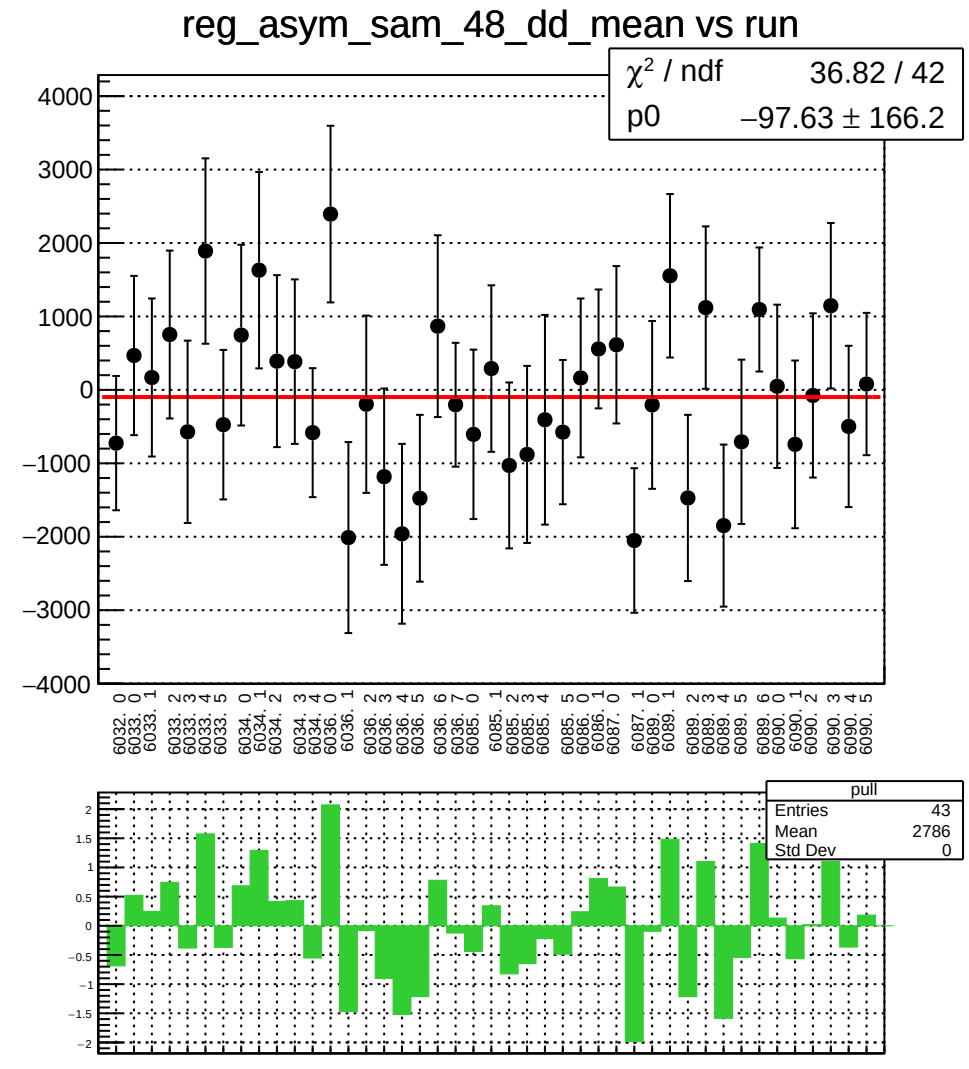

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.97 / 42
p0 −0.02 ± 0.04349
pull
Entries 43
Mean −2.517
Std Dev 0

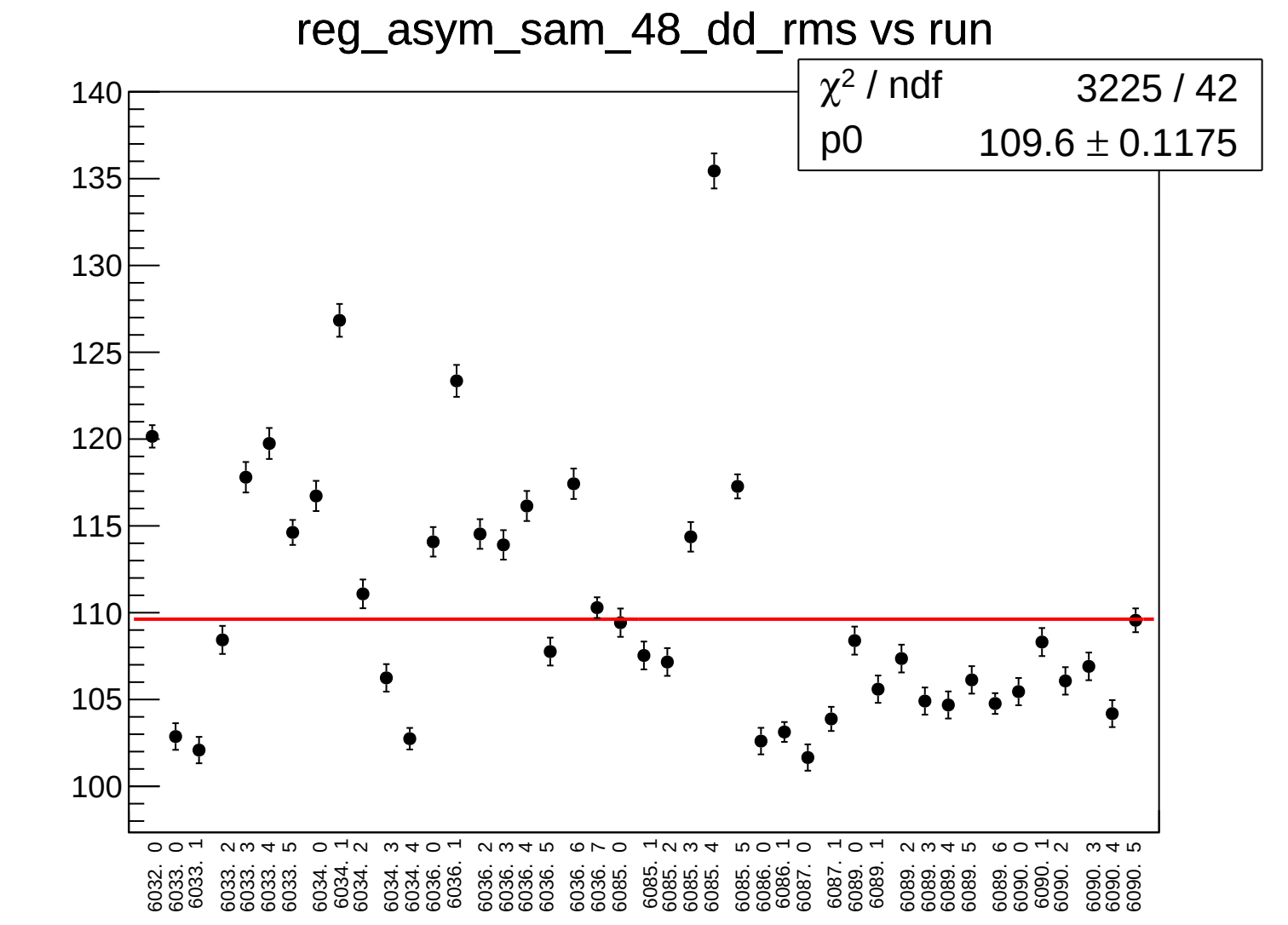

pull1D
Entries 43
Mean 0.08403
Std Dev 0.9604

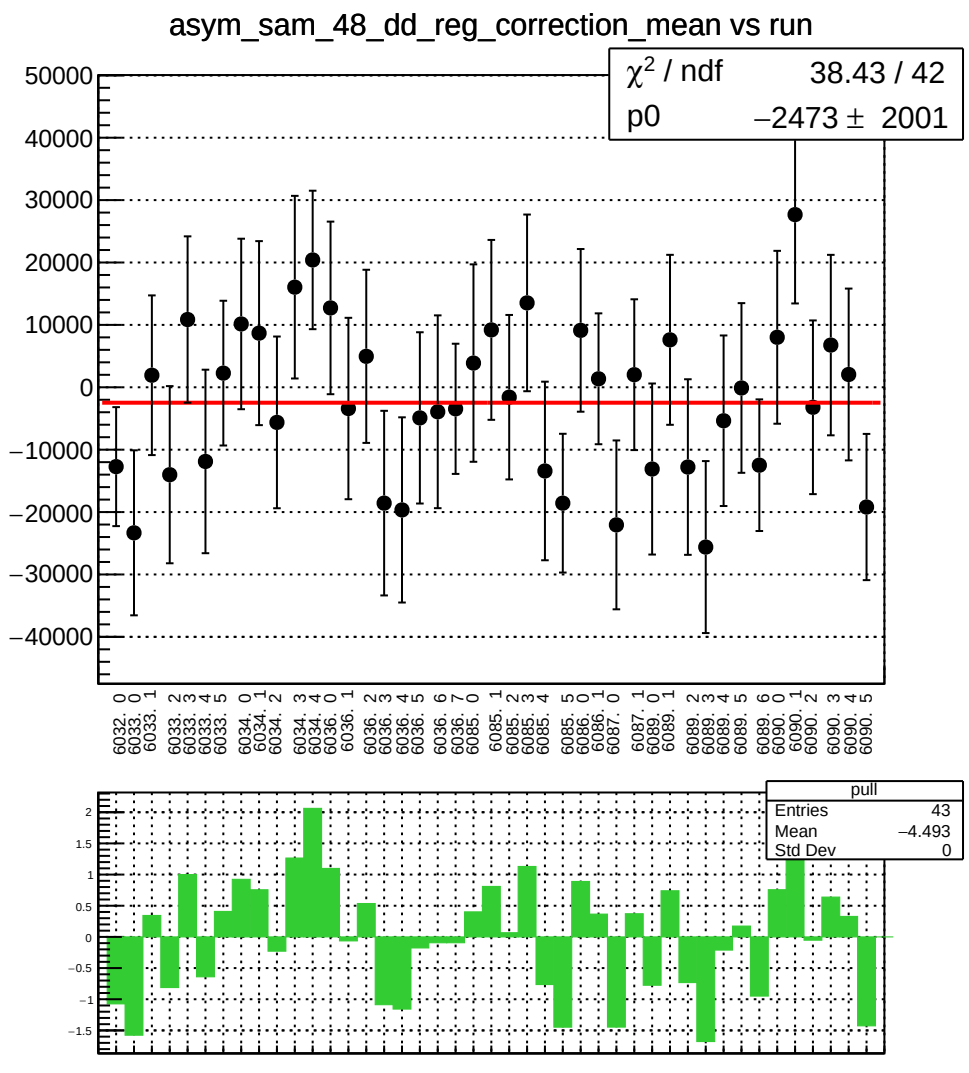

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 42
p0 26.75 ± 0.03075
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

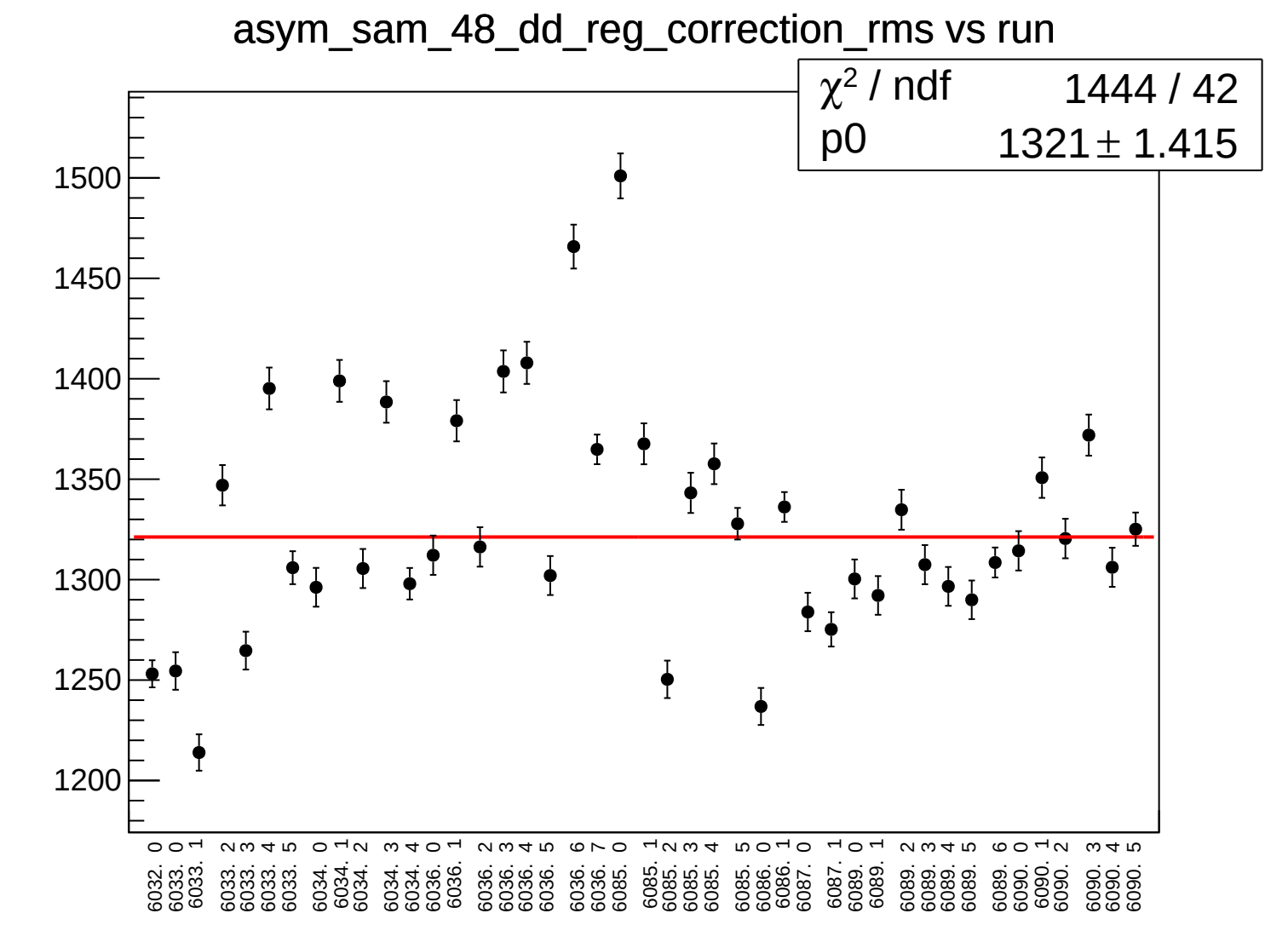

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 52.3 / 42
p0 −2.338e−18 ± 3.169e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.61
Std Dev 12.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.04668
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

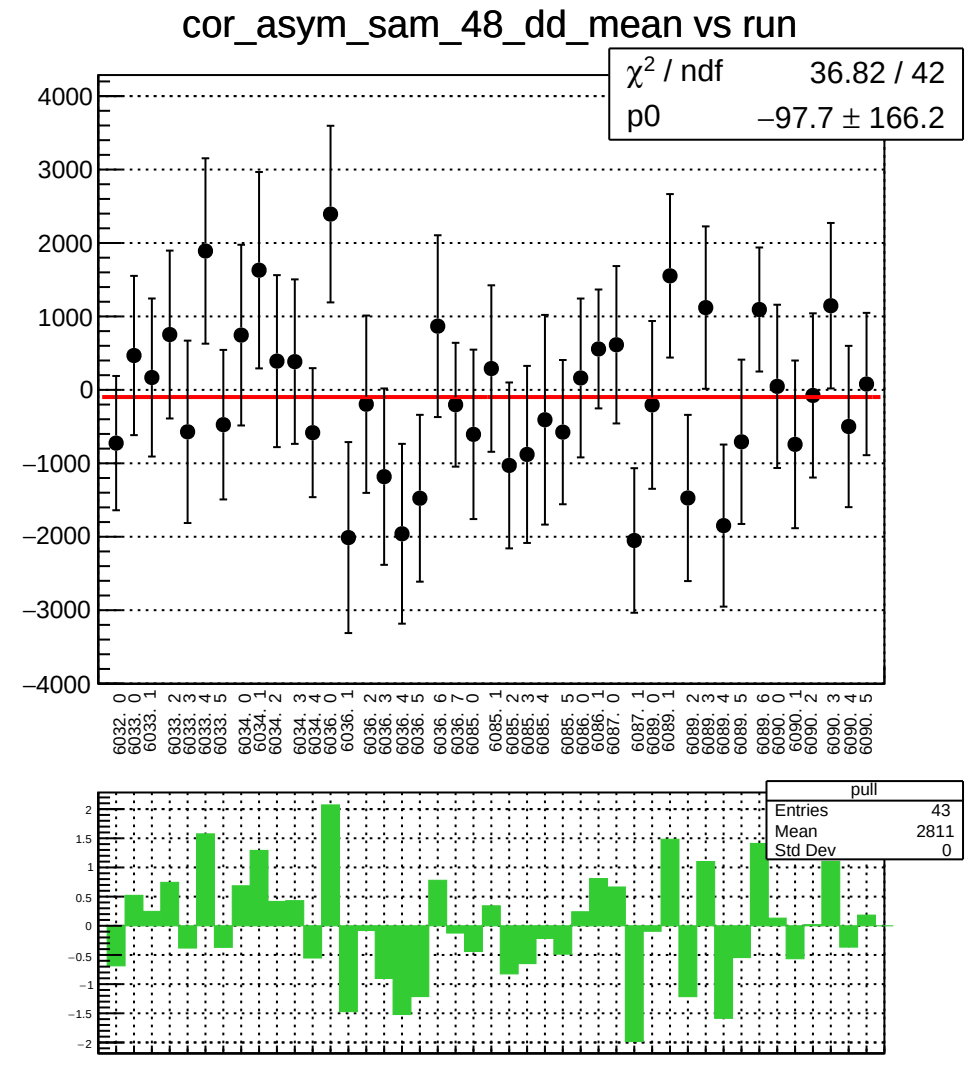

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.771e+05 / 42
p0 1.869e−11 ± 2.24e−14
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

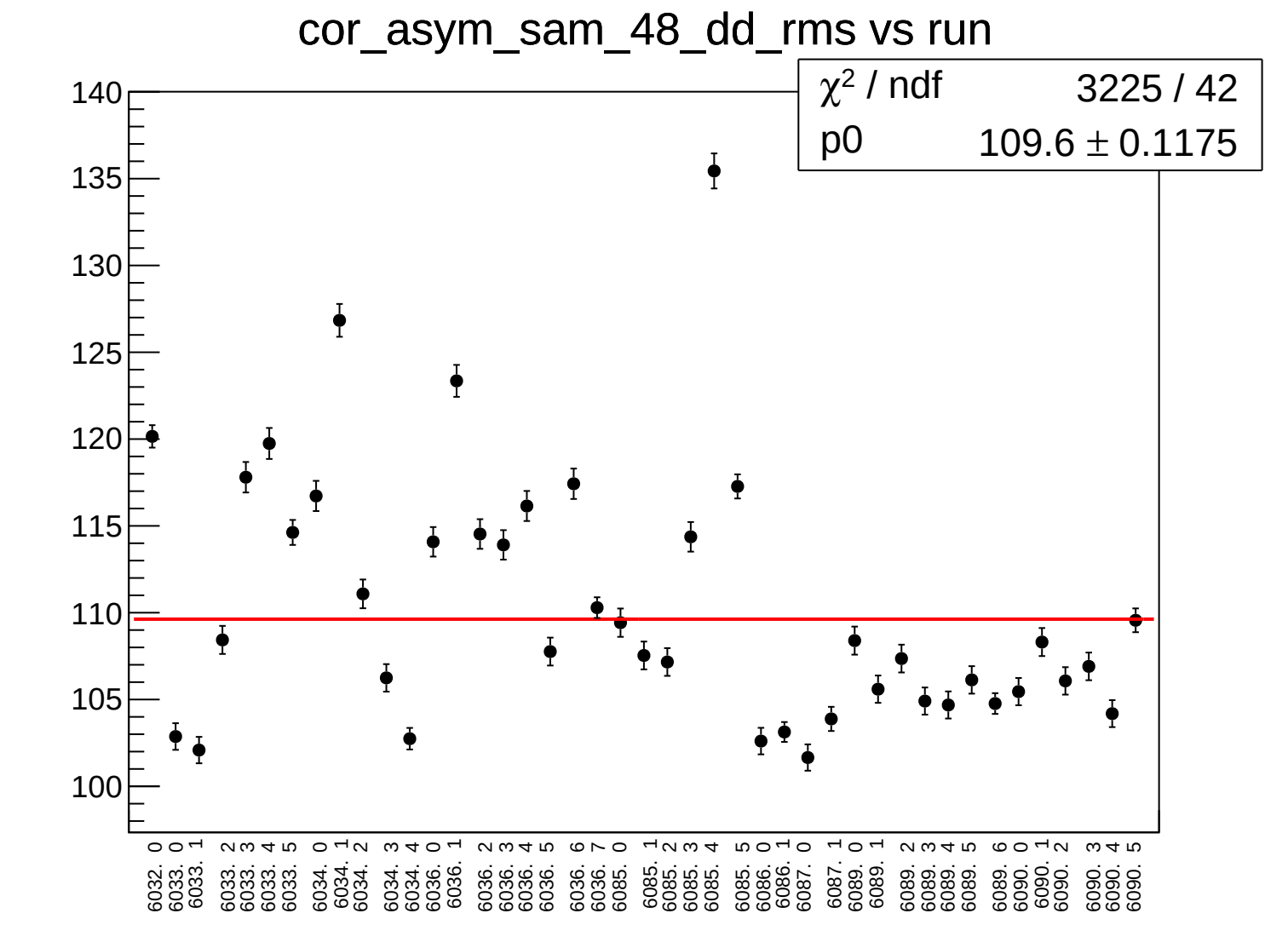

reg_asym_sam_48_dd_mean vs run
χ² / ndf 36.82 / 42
p0 −97.63 ± 166.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2786
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0003425
Std Dev 0.9254
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

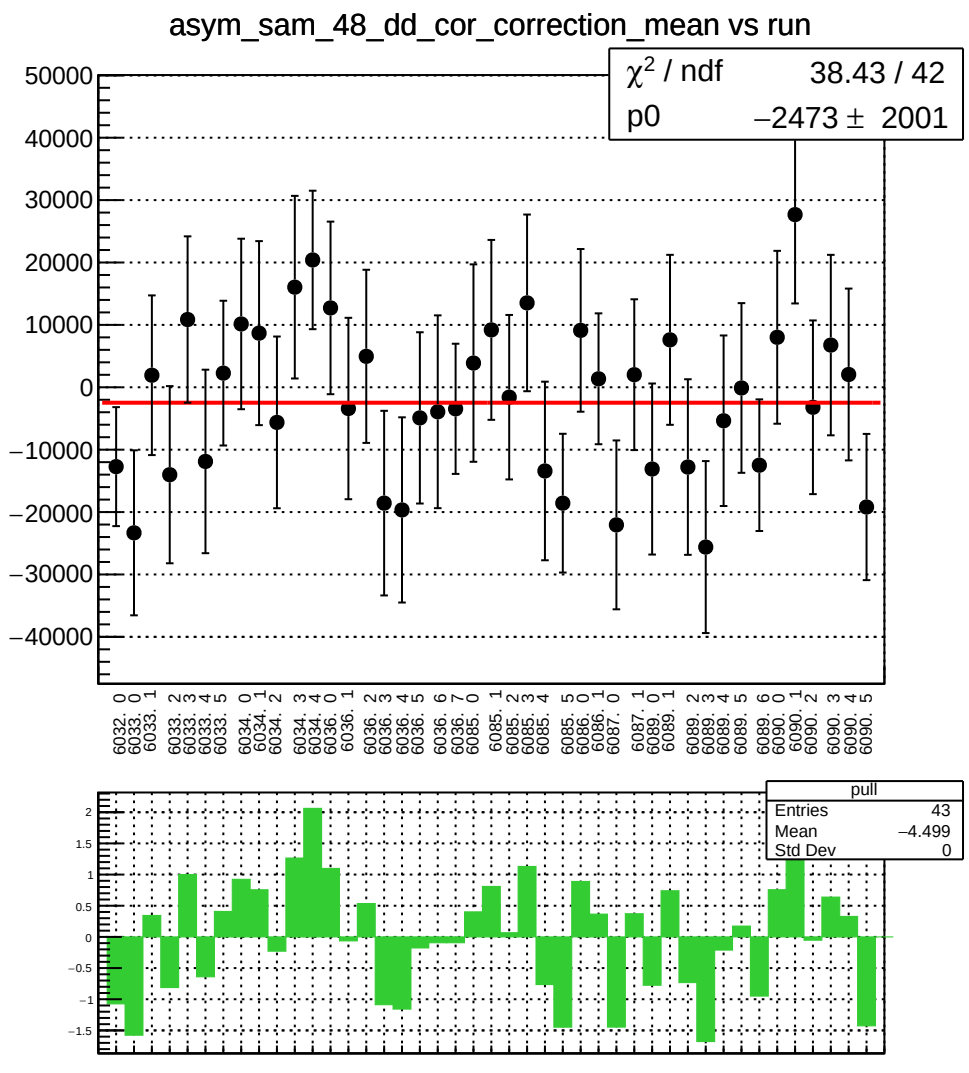

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3225 / 42
p0 109.6 ± 0.1175
140
135
130
125
120
115
110
105
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

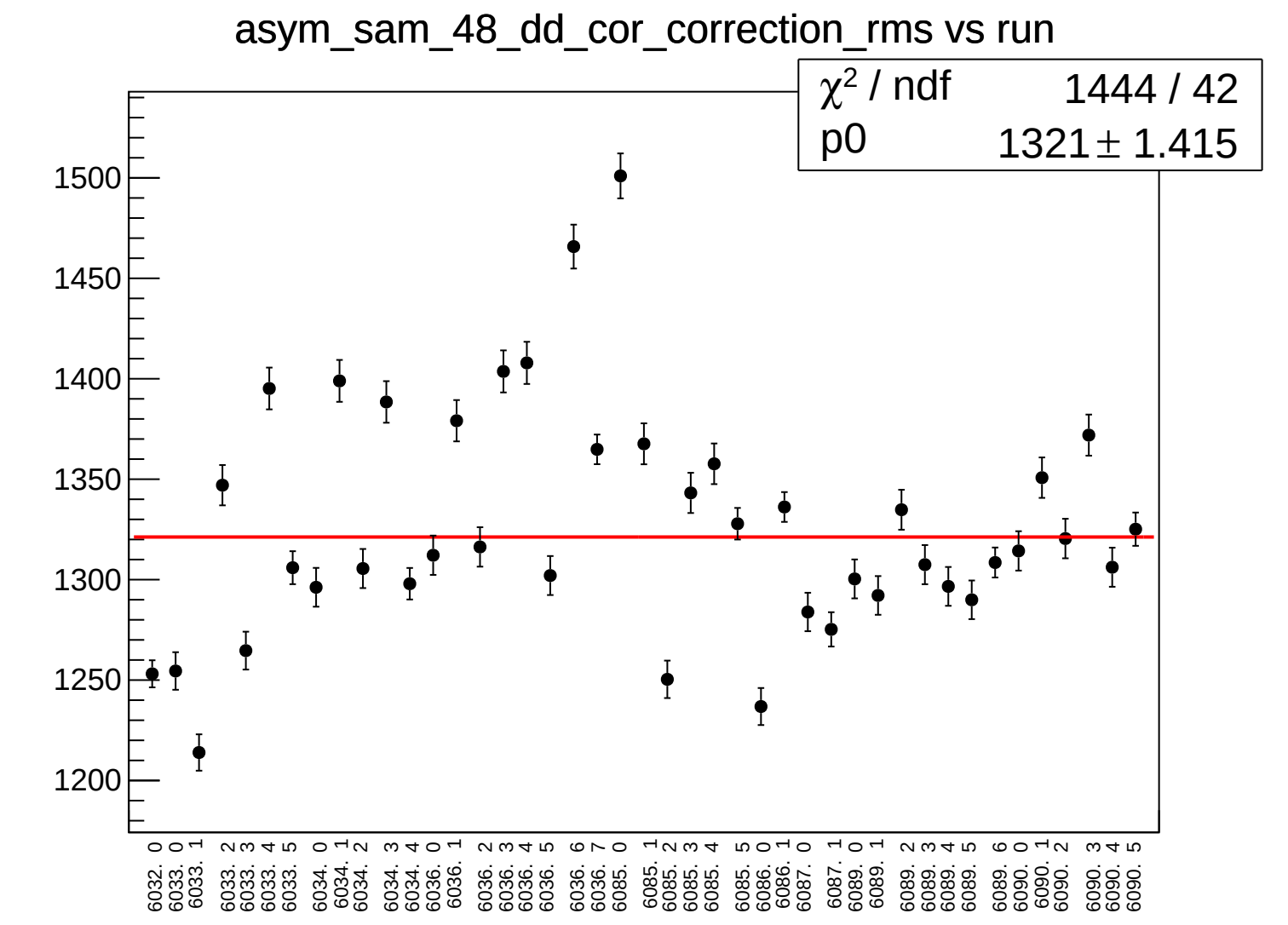

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 38.43 / 42
p0 −2473 ± 2001
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.493
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0161
Std Dev 0.9452
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 1444 / 42
p0 1321 ± 1.415
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_48_dd_mean vs run
χ² / ndf 36.82 / 42
p0 −97.7 ± 166.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2811
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0003398
Std Dev 0.9254
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ² / ndf 3225 / 42
p0 109.6 ± 0.1175
140
135
130
125
120
115
110
105
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 38.43 / 42
p0 −2473 ± 2001
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.499
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0161
Std Dev 0.9452
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 1444 / 42
p0 1321 ± 1.415
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
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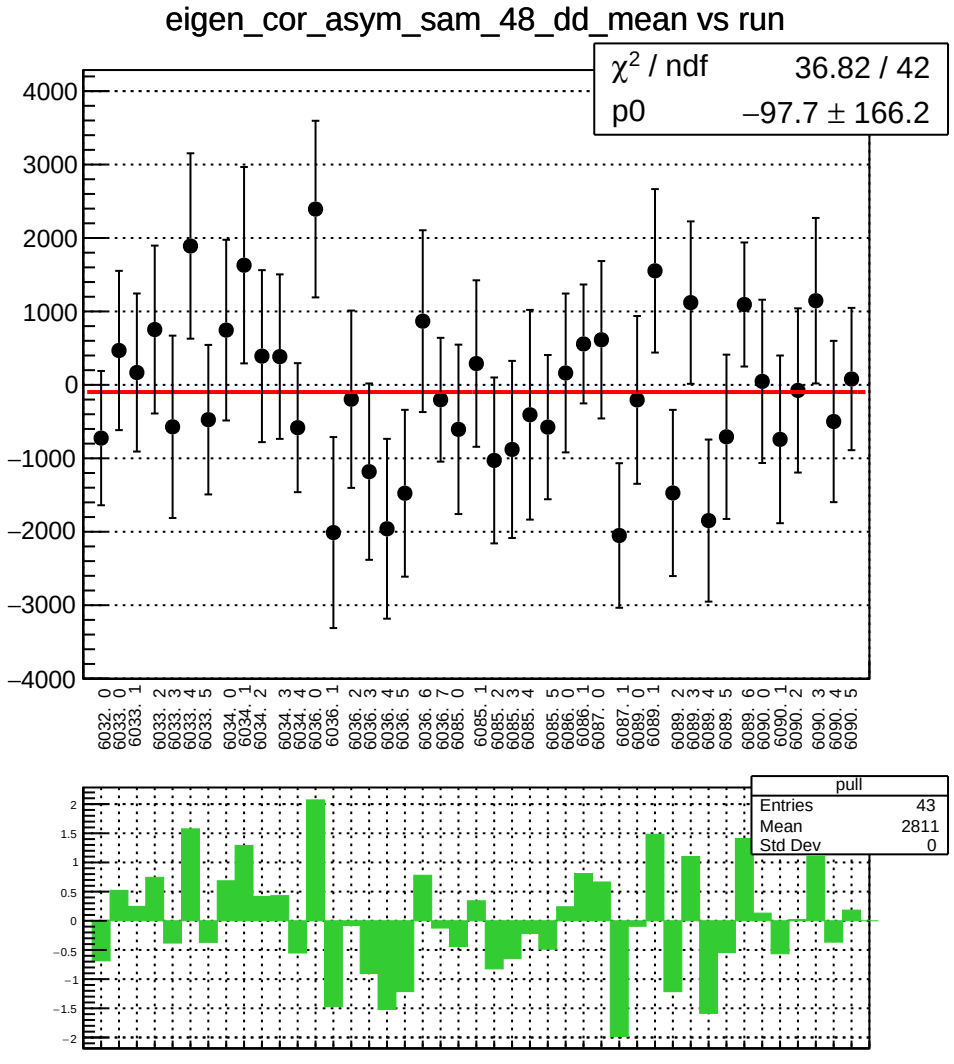
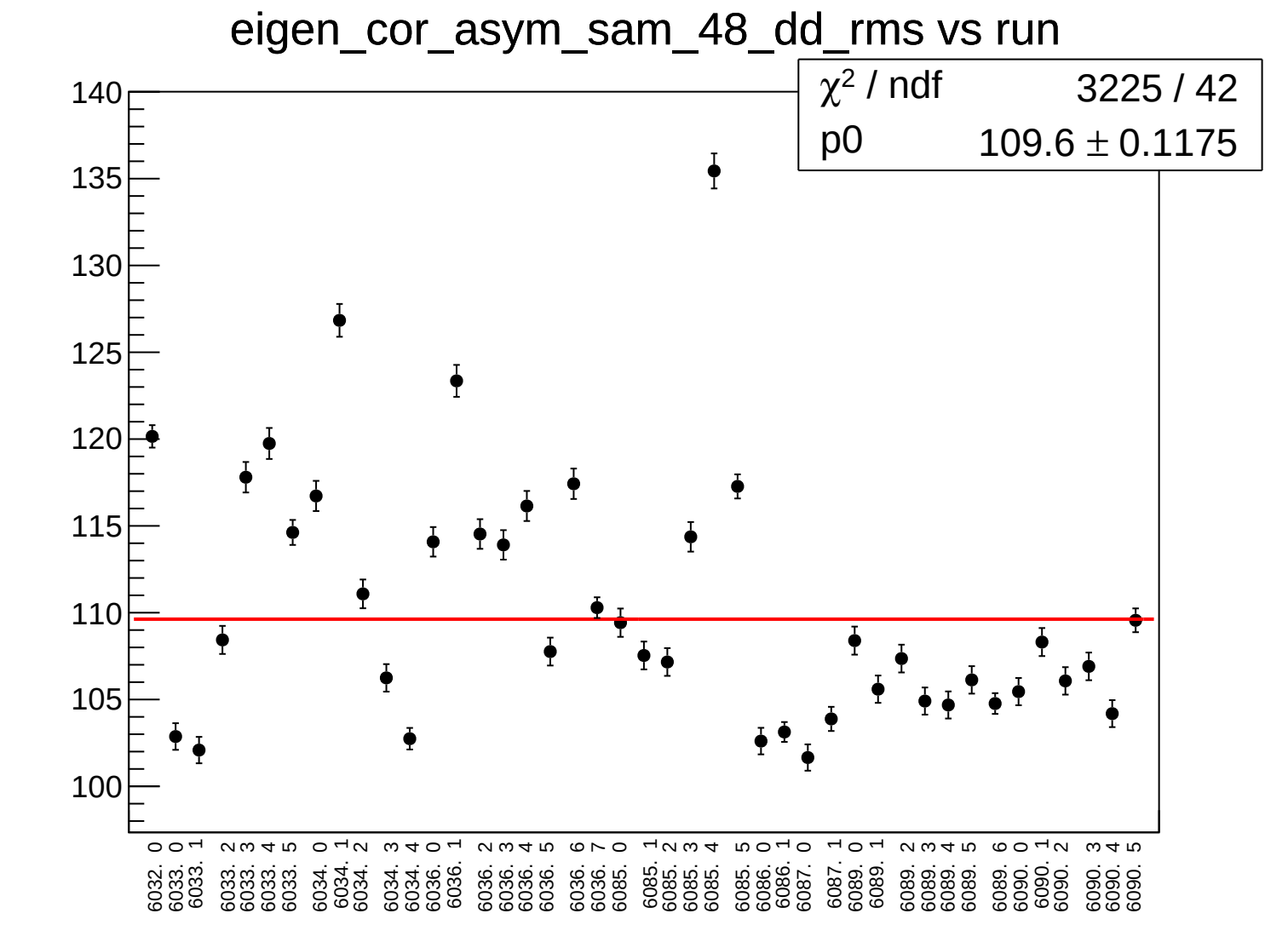
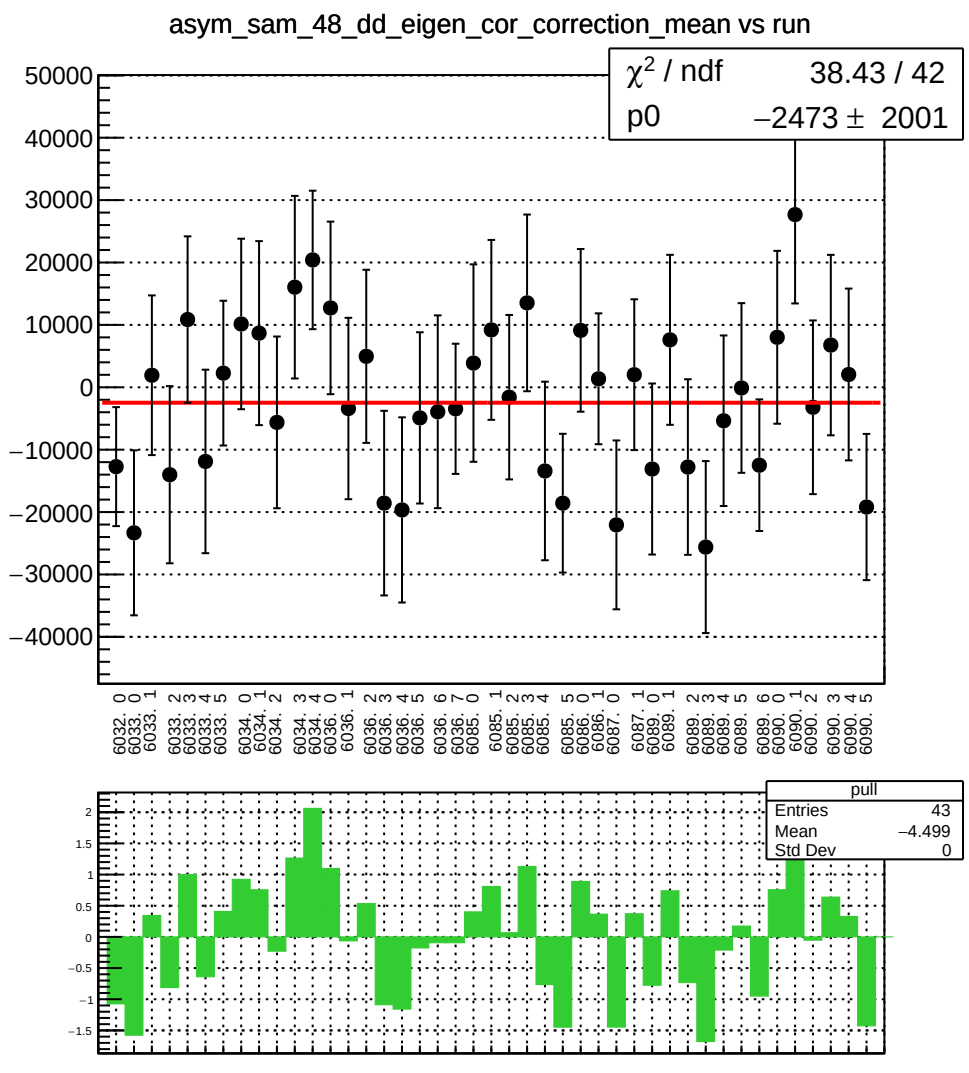
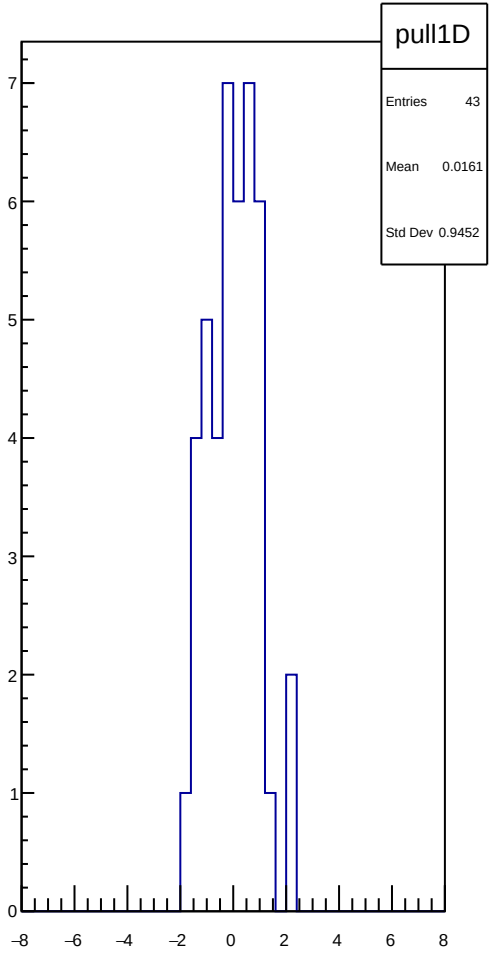
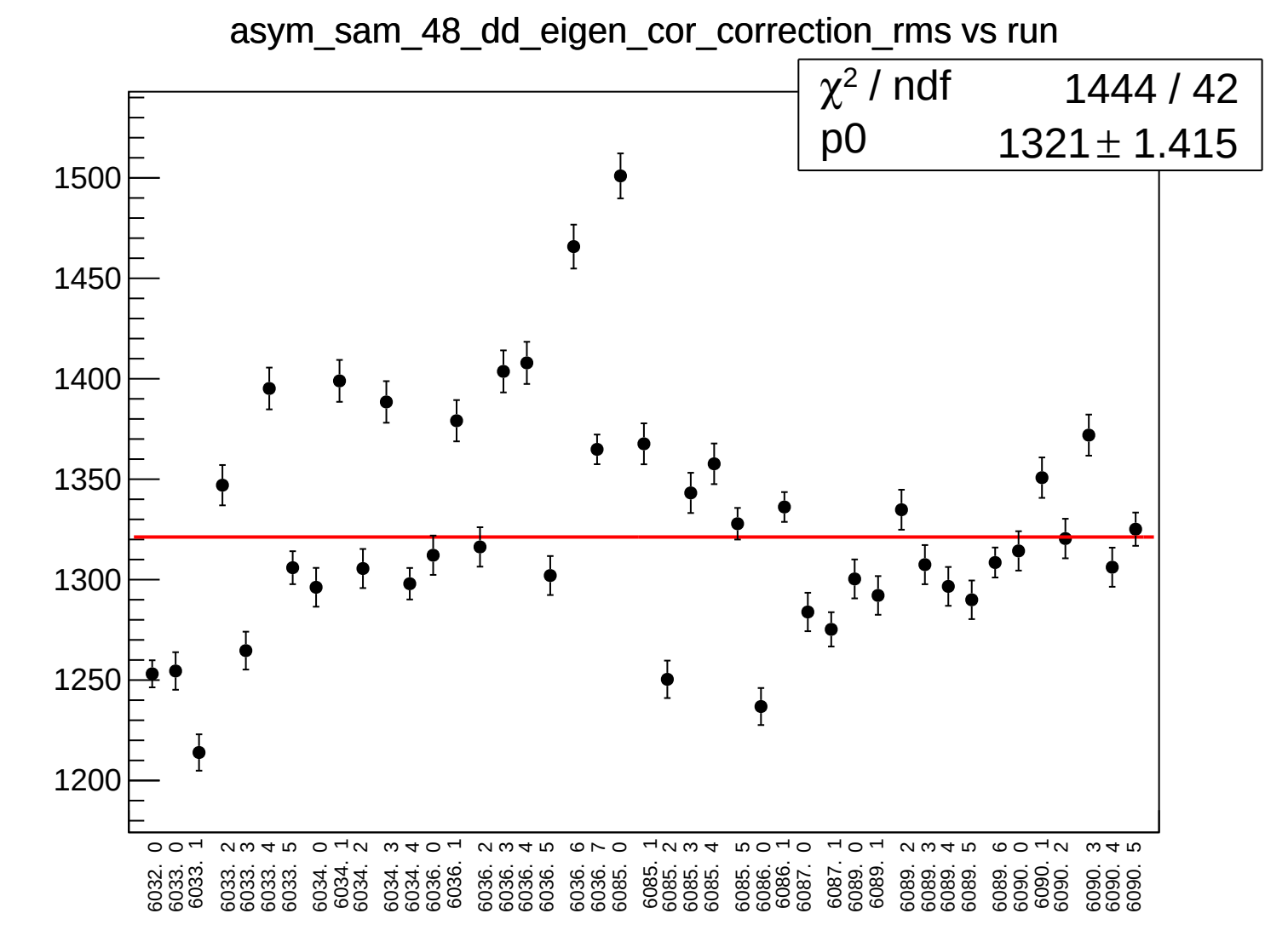
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

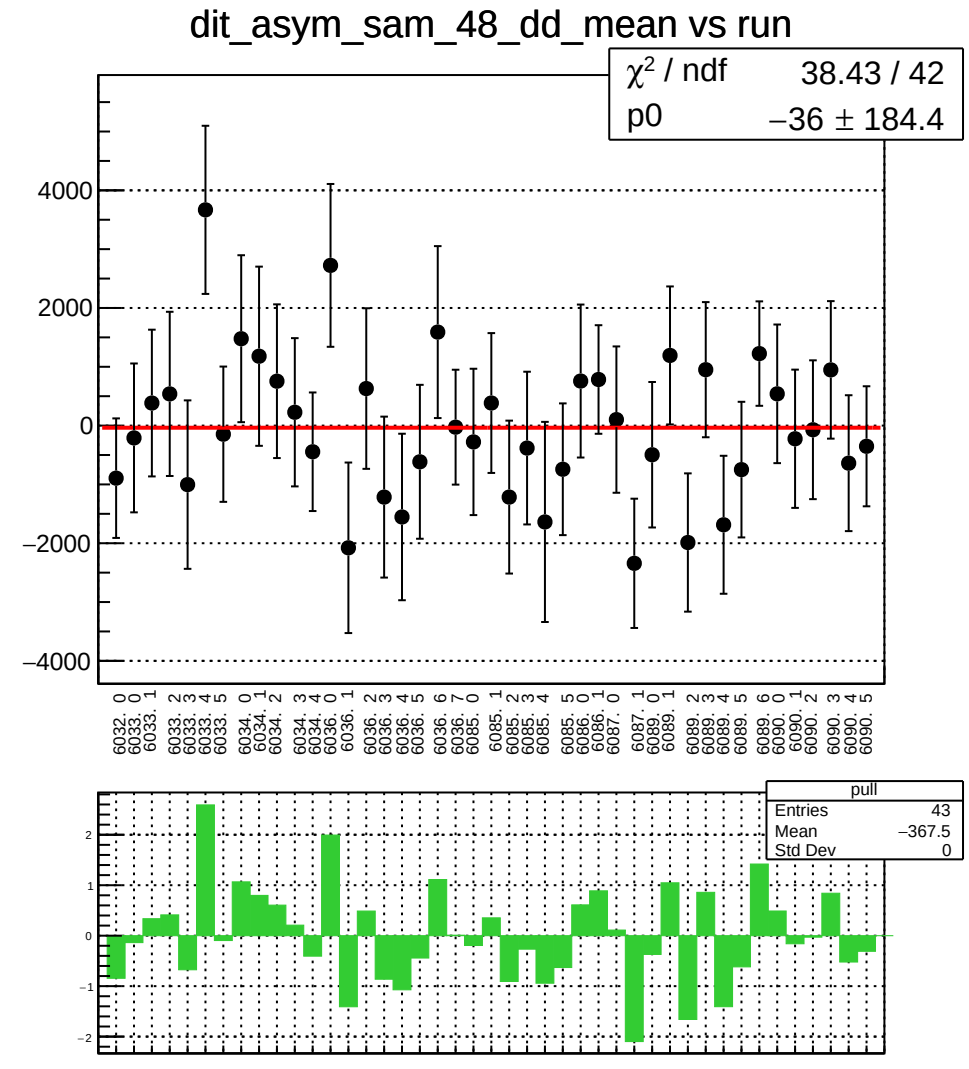

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 36.82 / 42
p0 −97.7 ± 166.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2811
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0003398
Std Dev 0.9254
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

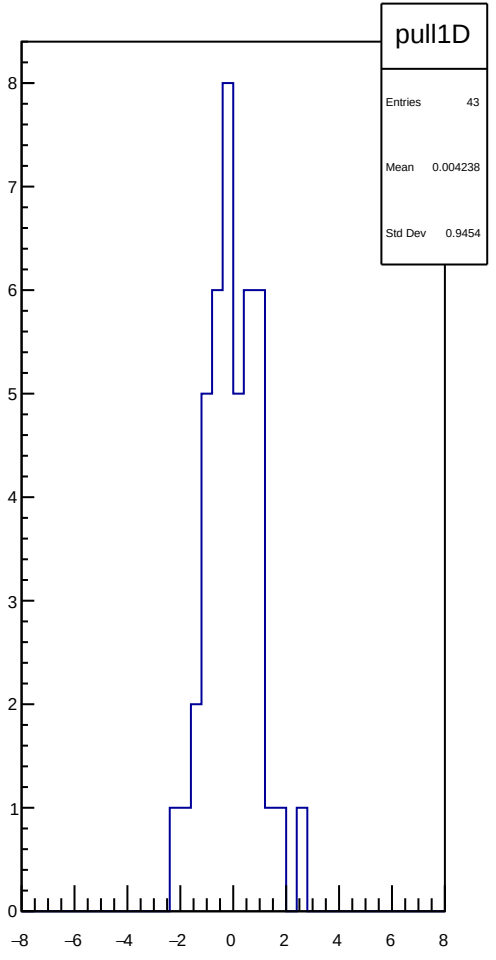

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3225 / 42
p0 109.6 ± 0.1175
140
135
130
125
120
115
110
105
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

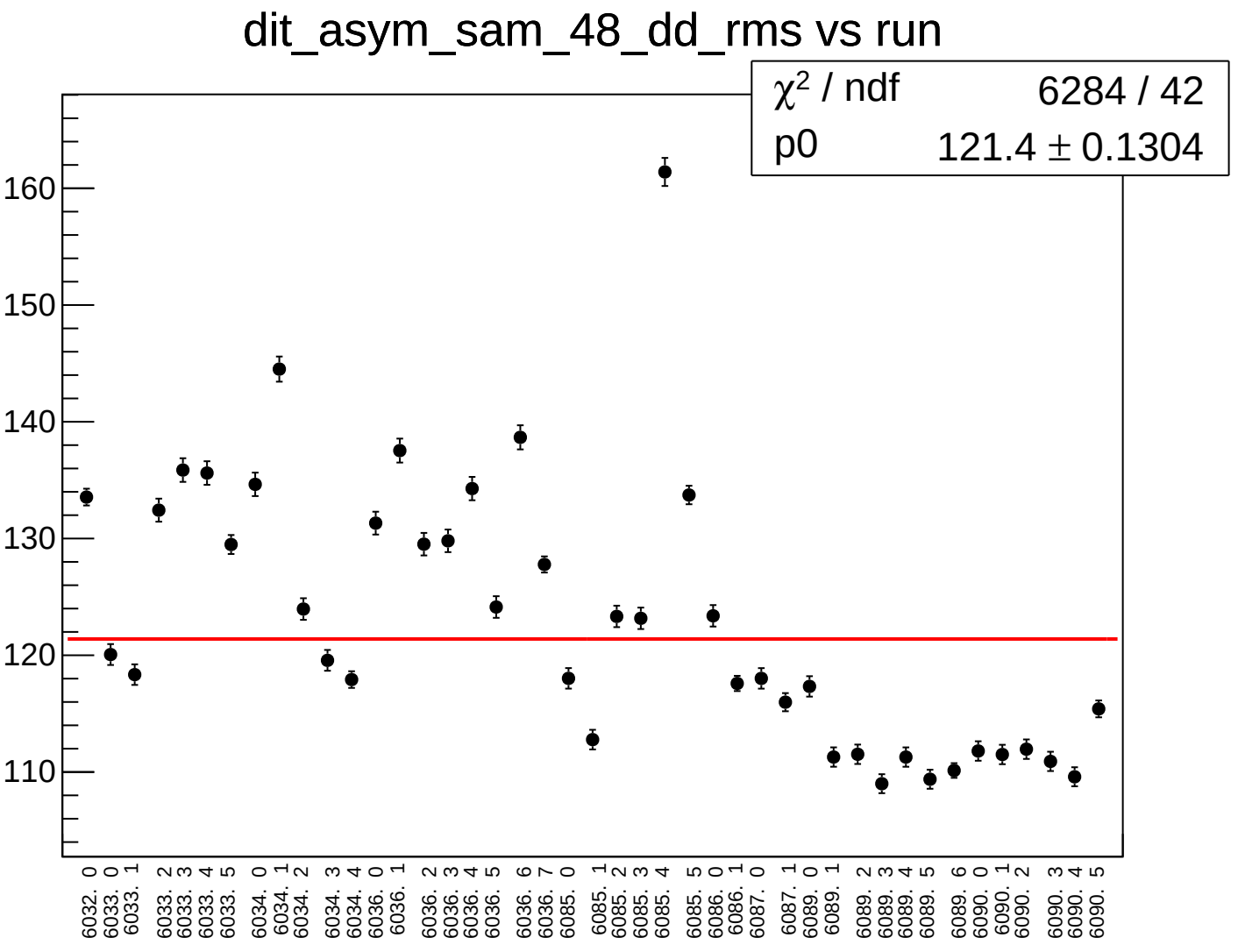

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.43 / 42
p0 −2473 ± 2001
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.499
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

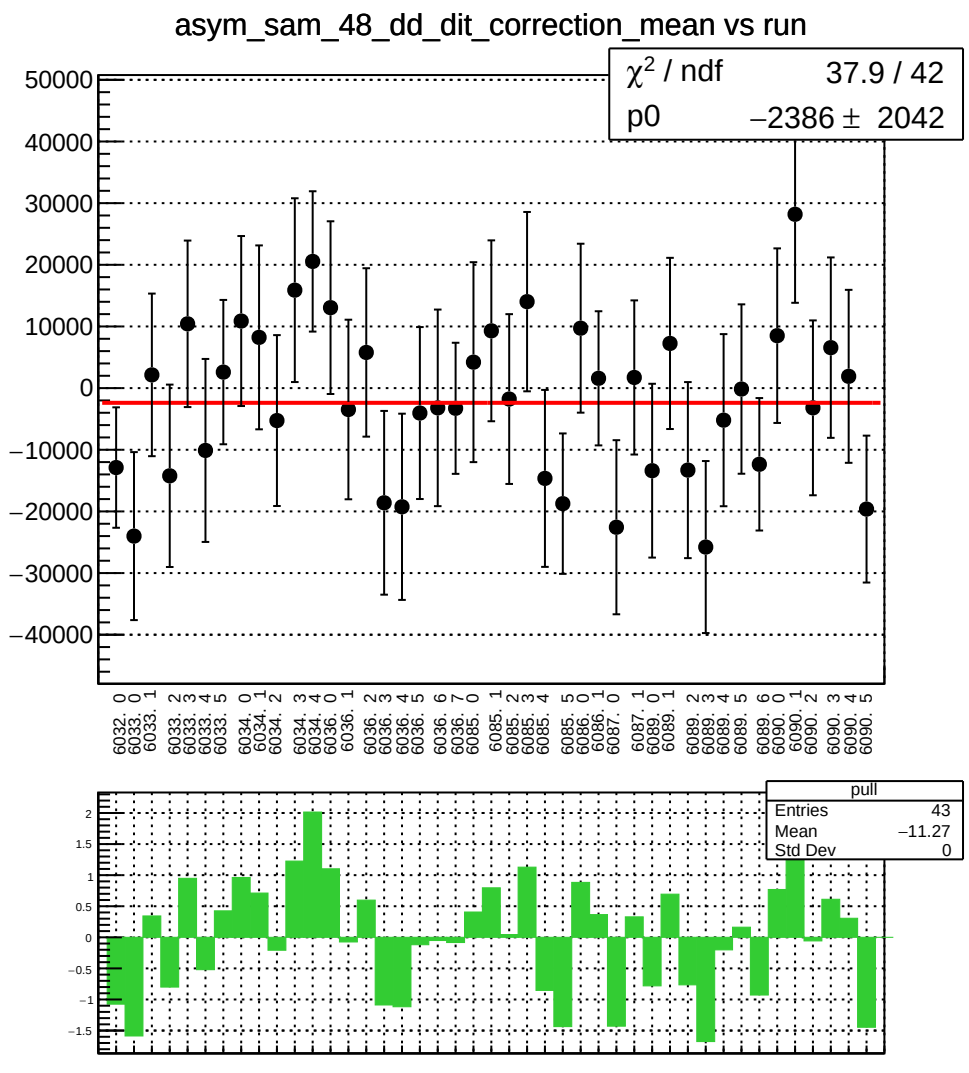

pull1D
Entries 43
Mean 0.0161
Std Dev 0.9452
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

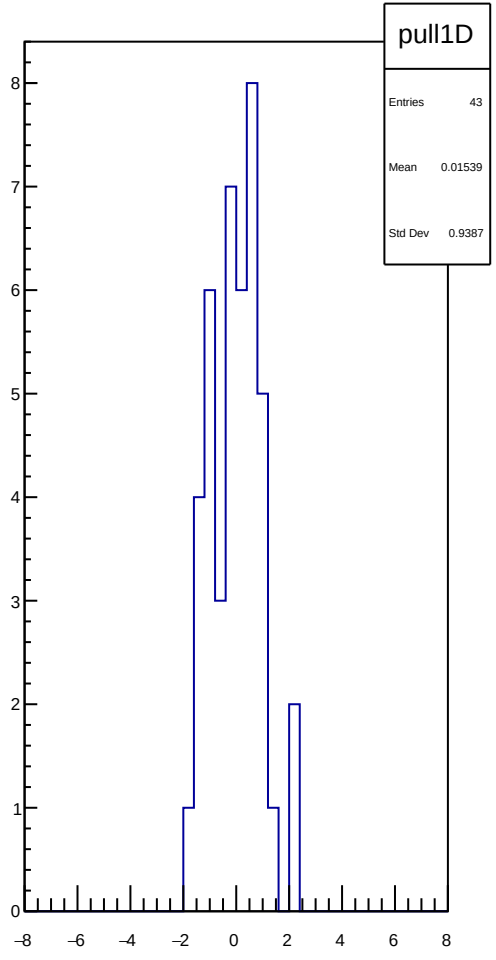

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1444 / 42
p0 1321 ± 1.415
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

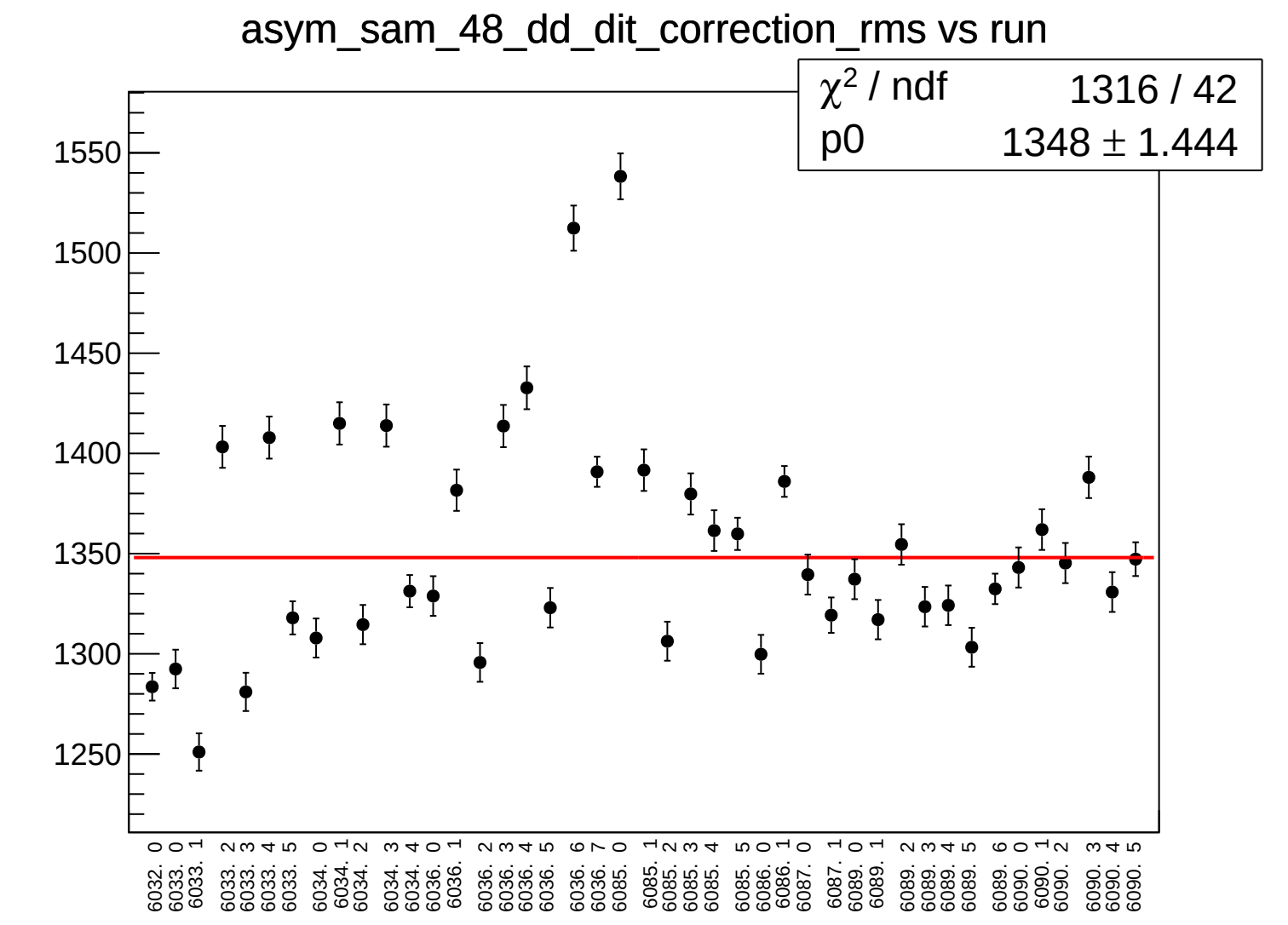

dit_asym_sam_48_dd_mean vs run
χ² / ndf 38.43 / 42
p0 −36 ± 184.4
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −367.5
Std Dev 0
2
1
0
−1
−2

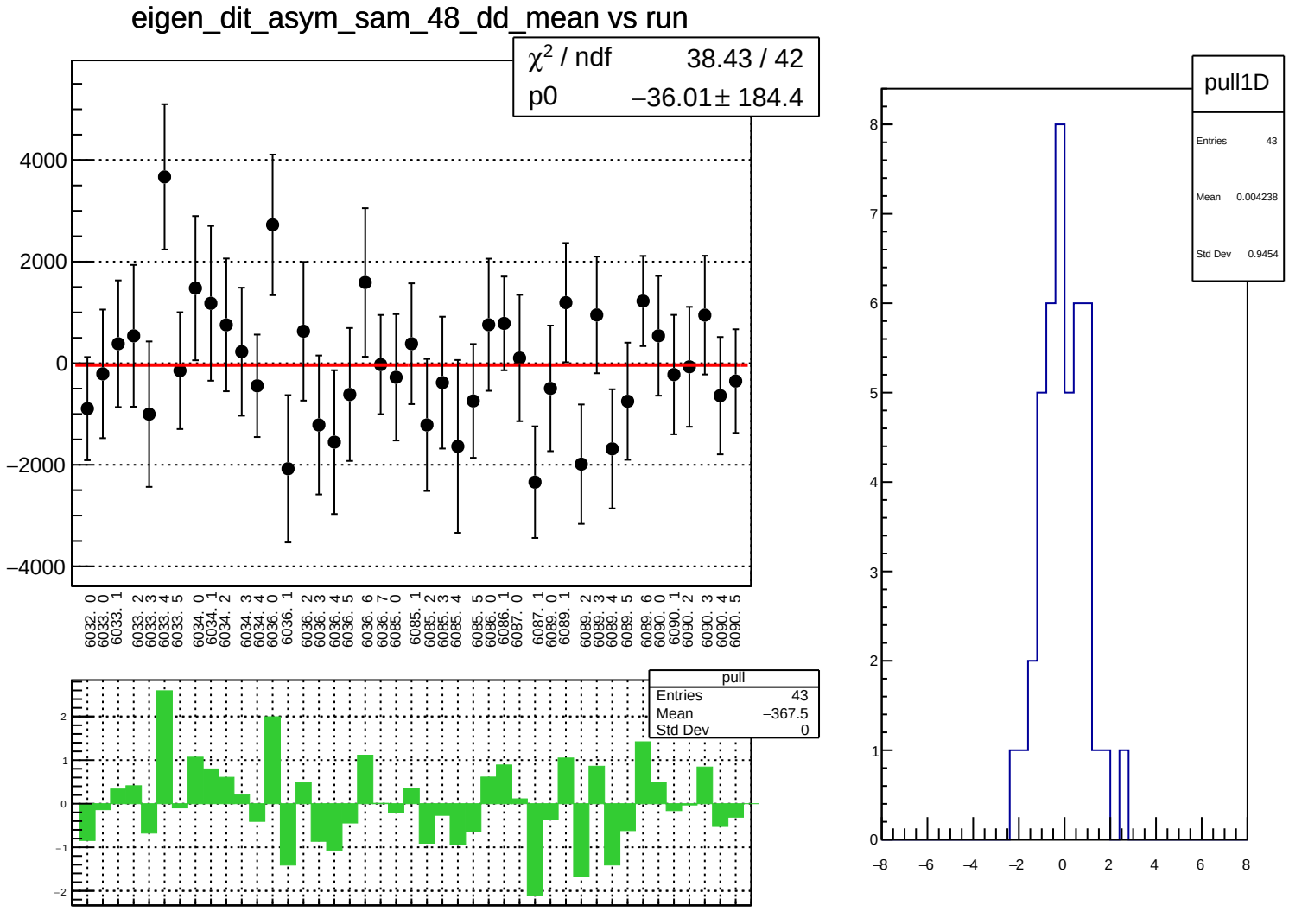

pull1D
Entries 43
Mean 0.004238
Std Dev 0.9454
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

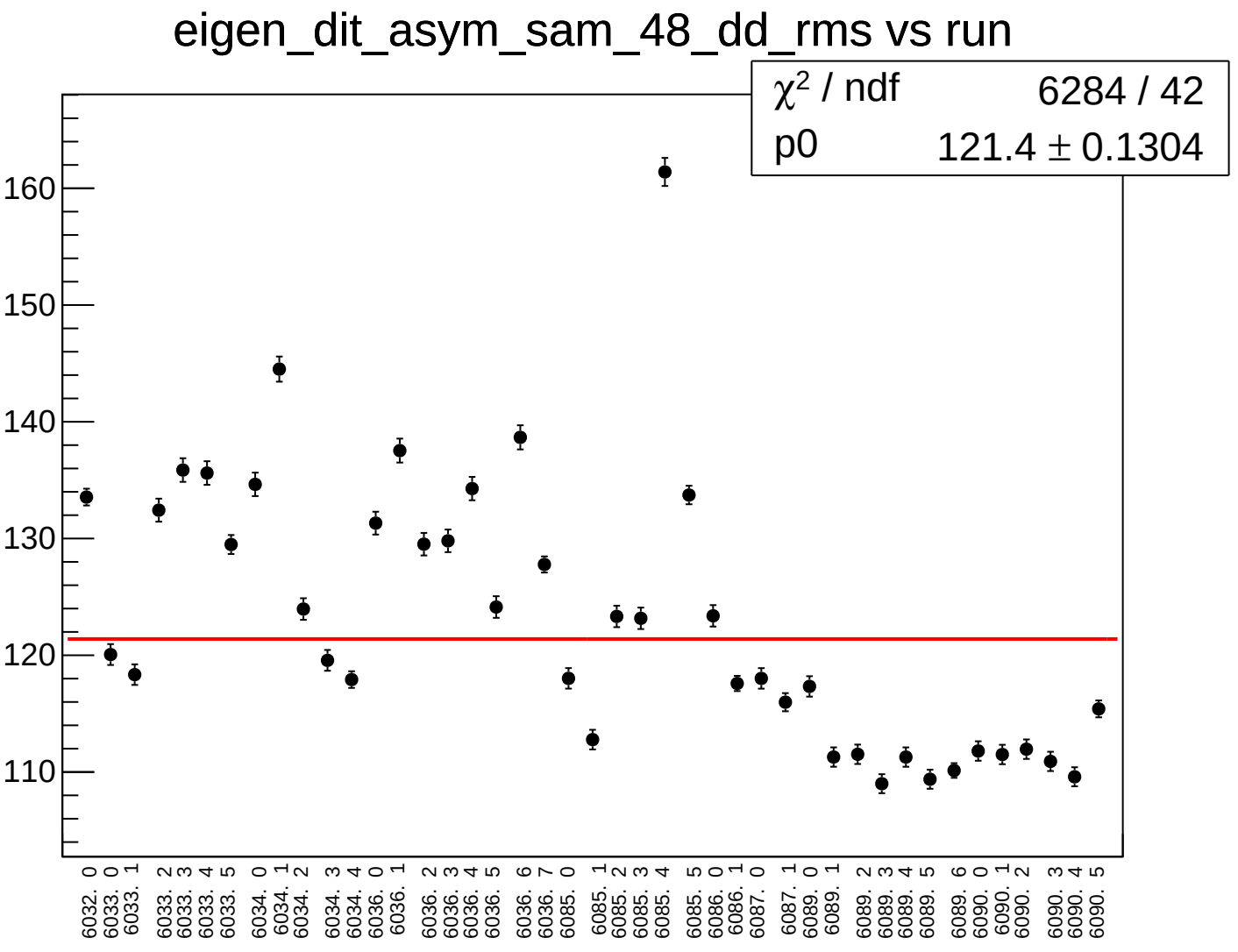

dit_asym_sam_48_dd_rms vs run
χ² / ndf 6284 / 42
p0 121.4 ± 0.1304
160
150
140
130
120
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

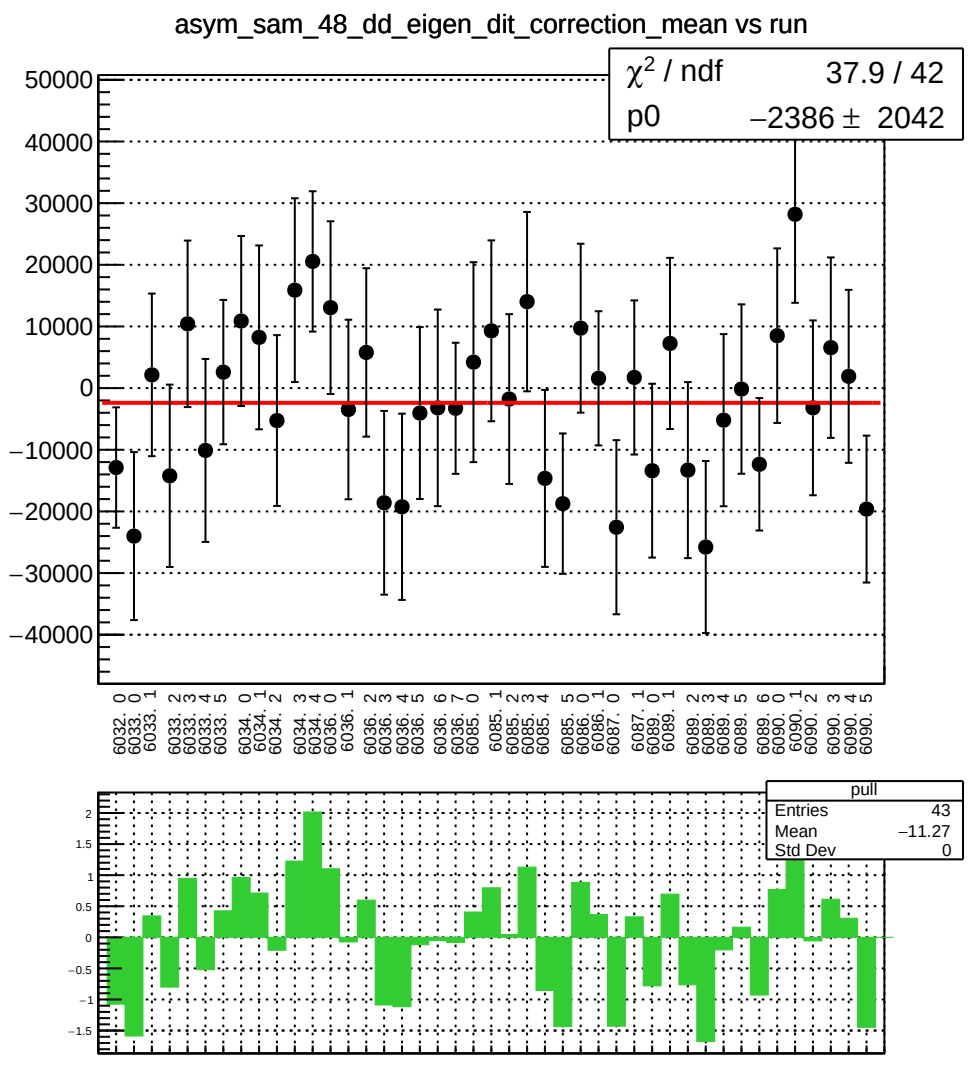

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 37.9 / 42
p0 −2386 ± 2042
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −11.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

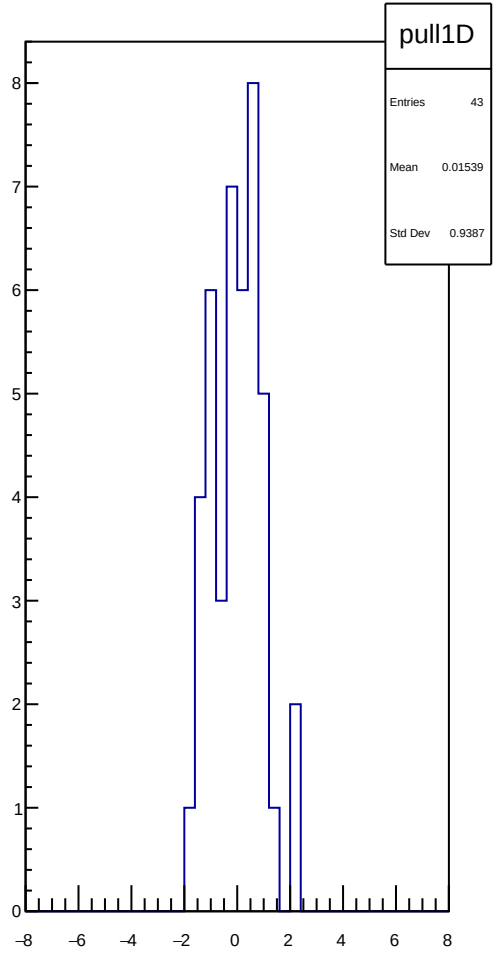

pull1D
Entries 43
Mean 0.01539
Std Dev 0.9387
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

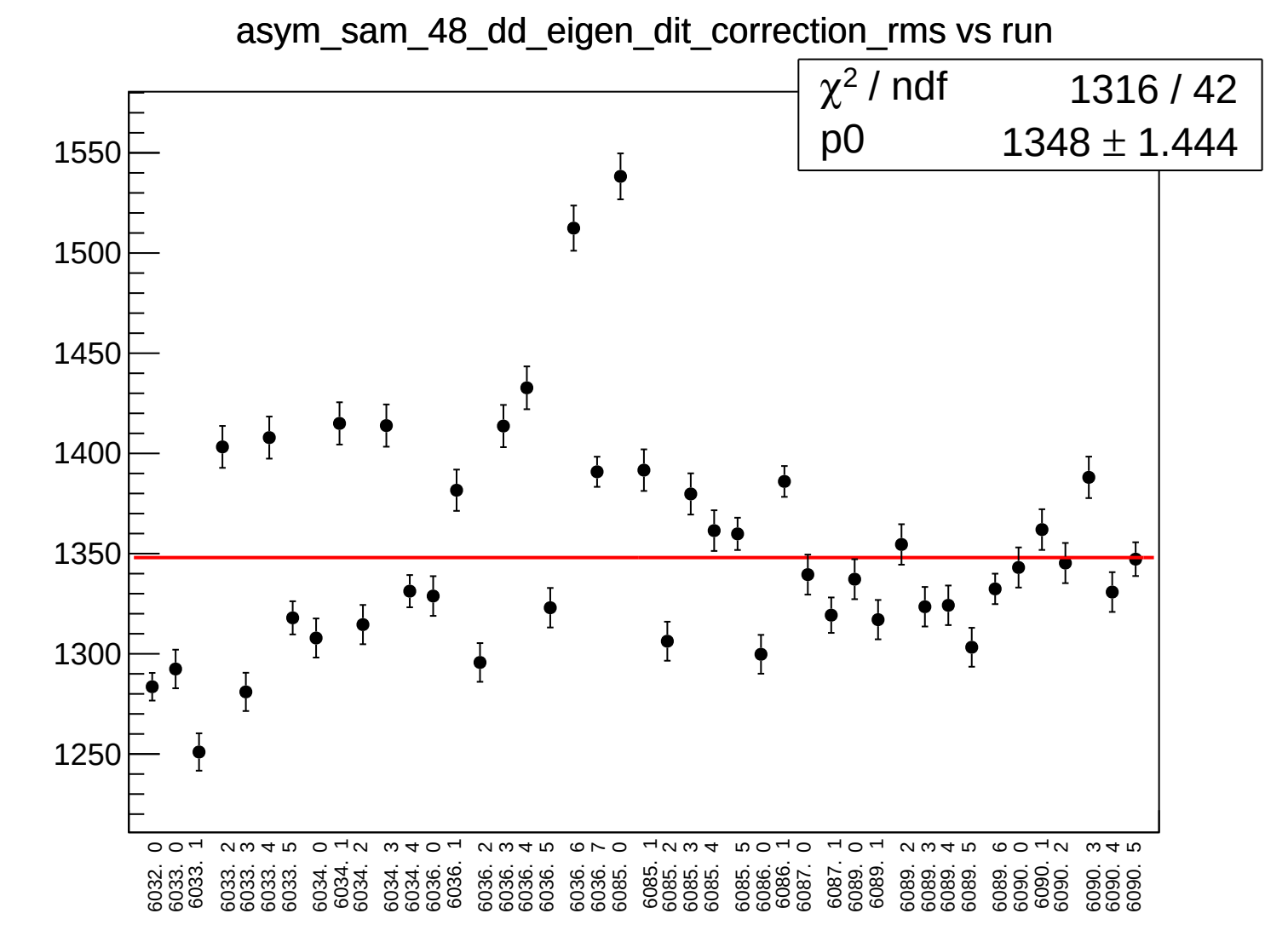

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1316 / 42
p0 1348 ± 1.444
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

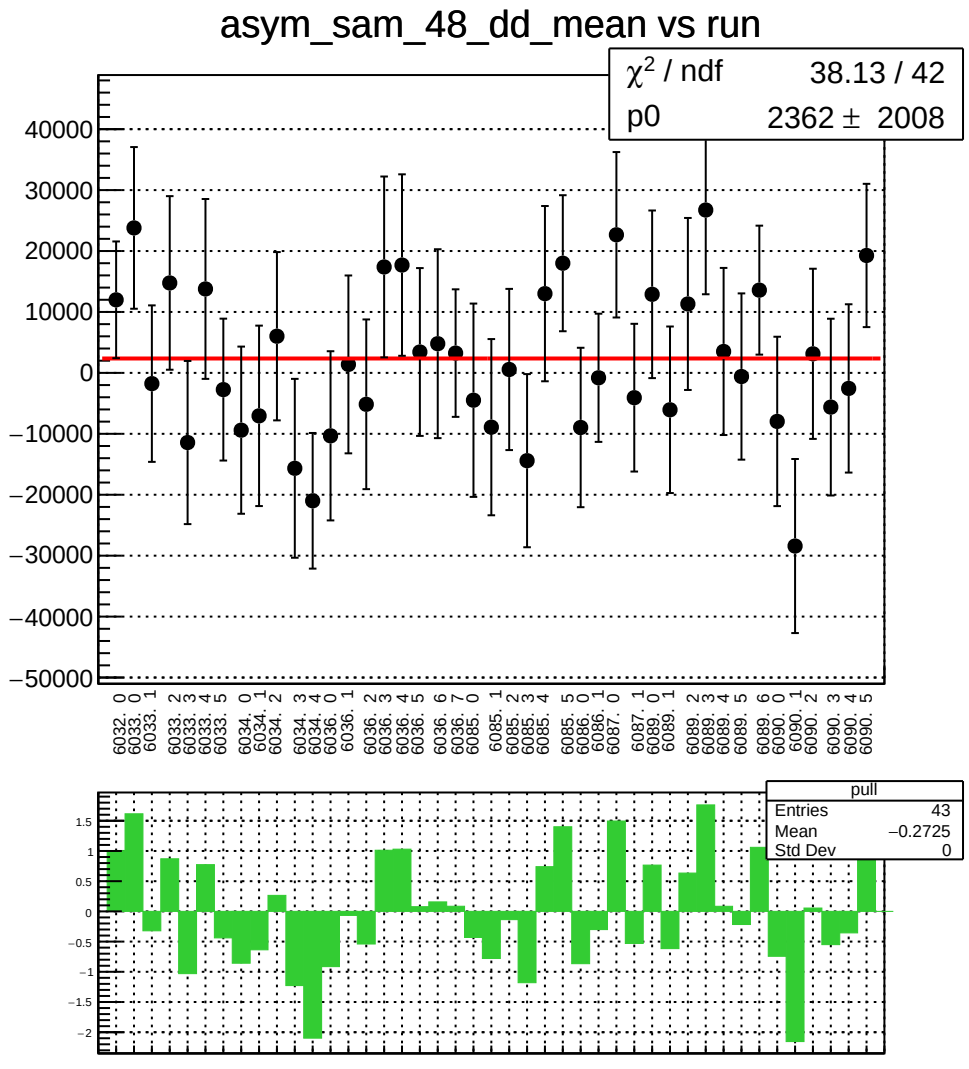

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 38.43 / 42
p0 −36.01 ± 184.4
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −367.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004238
Std Dev 0.9454
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

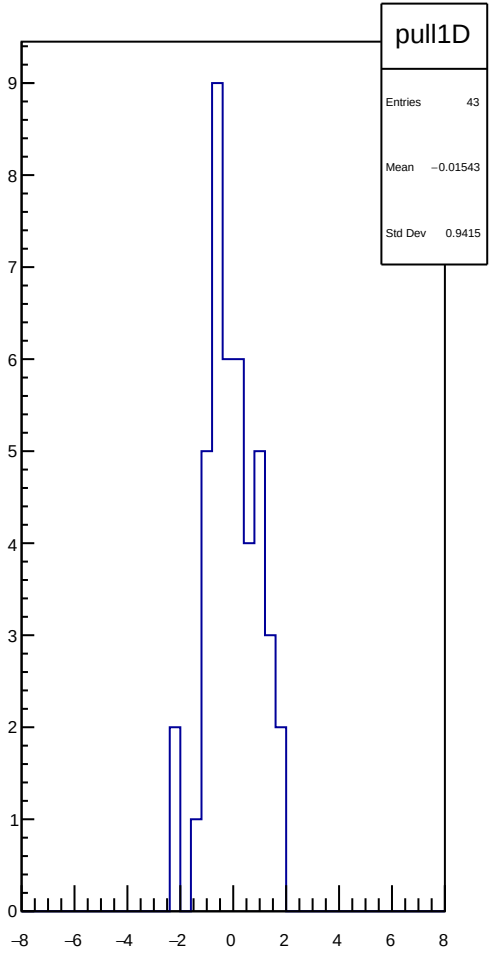

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 6284 / 42
p0 121.4 ± 0.1304
160
150
140
130
120
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

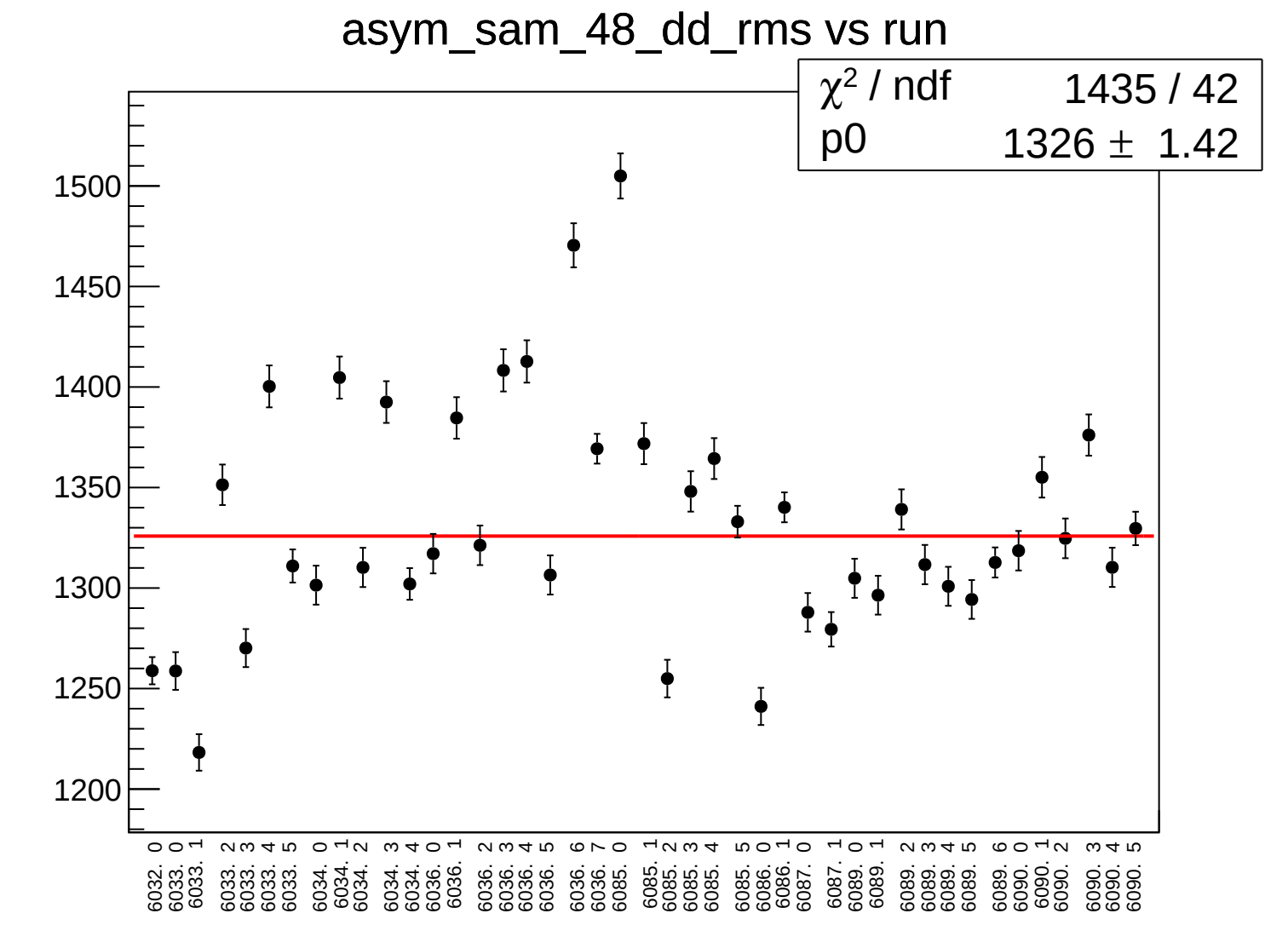

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.9 / 42
p0 −2386 ± 2042
pull
Entries 43
Mean −11.27
Std Dev 0

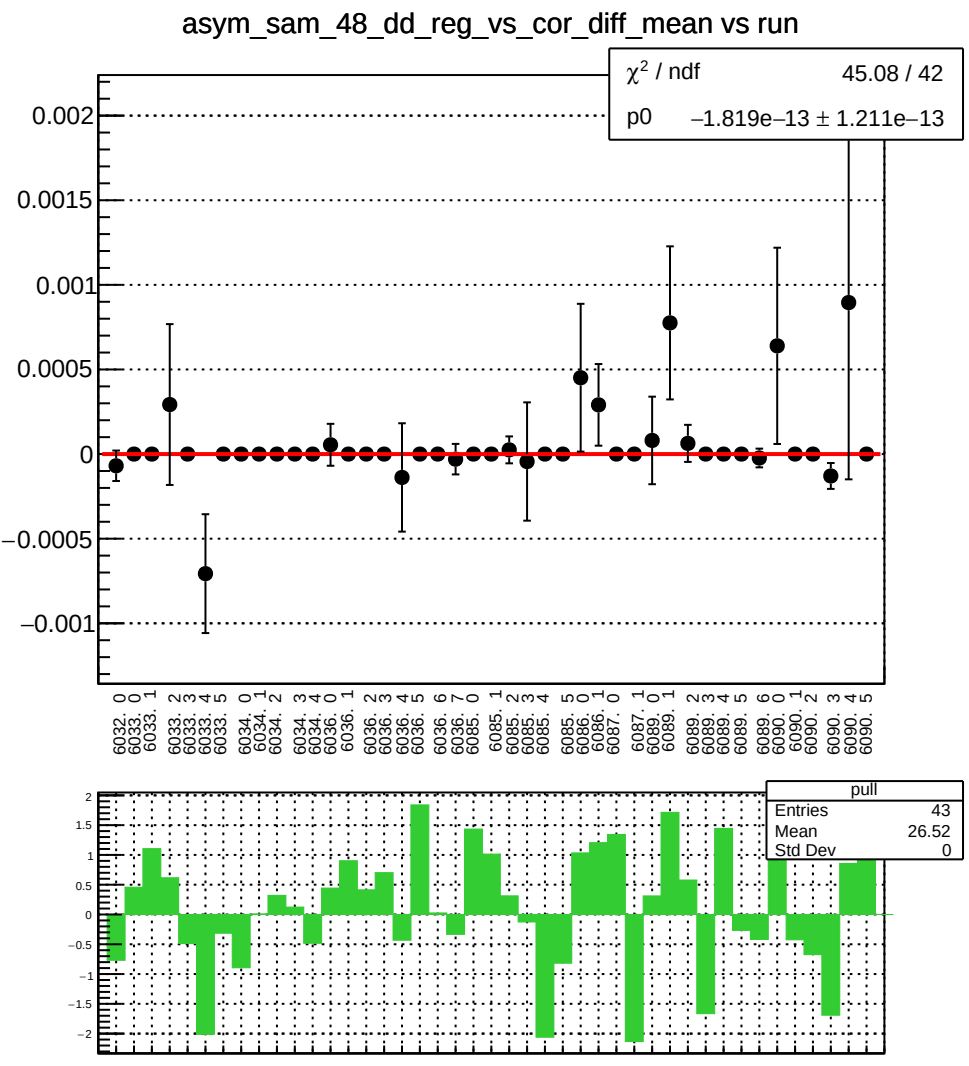

pull1D
Entries 43
Mean 0.01539
Std Dev 0.9387

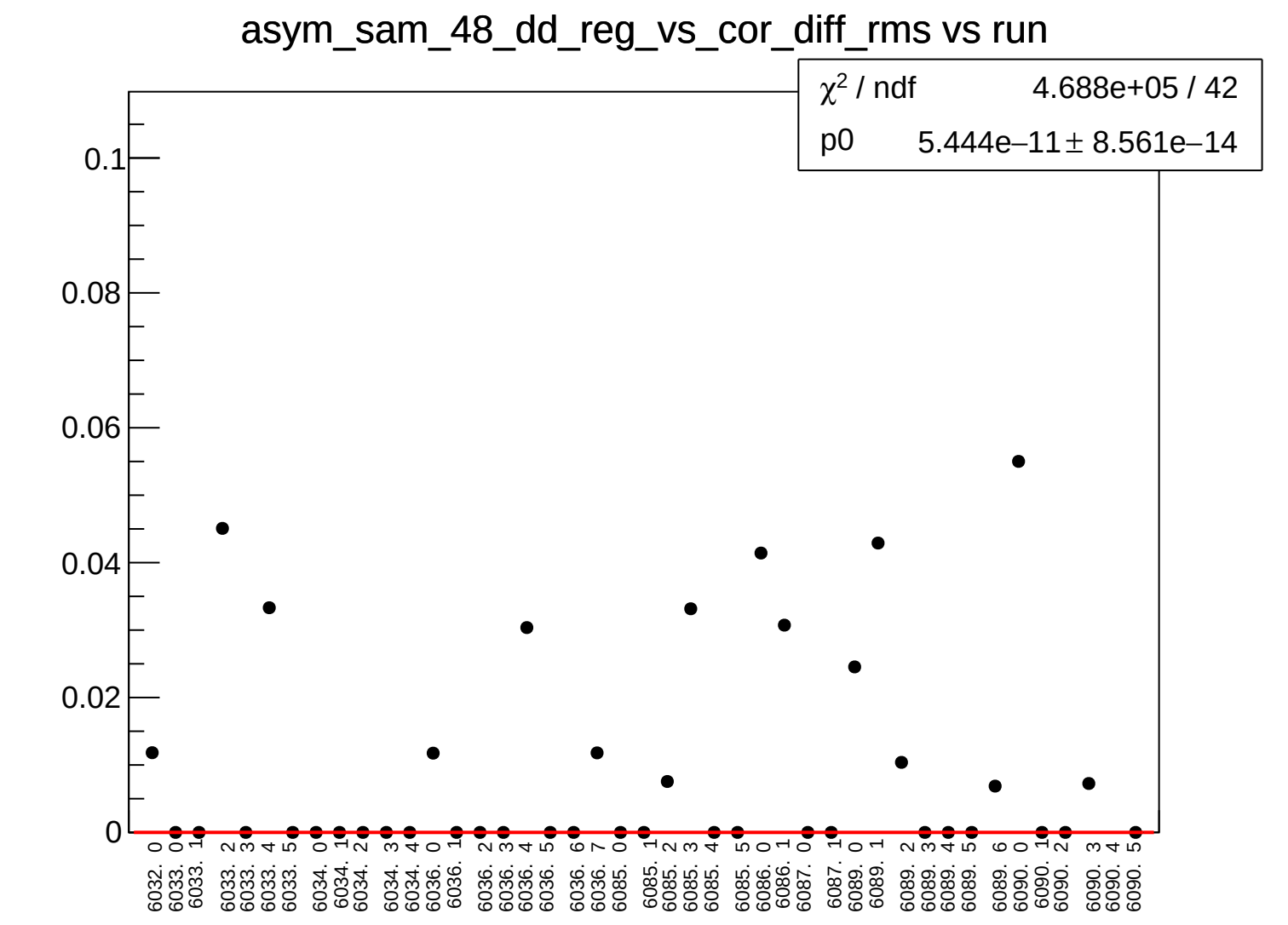

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1316 / 42
p0 1348 ± 1.444
1550
1500
1450
1400
1350
1300
1250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

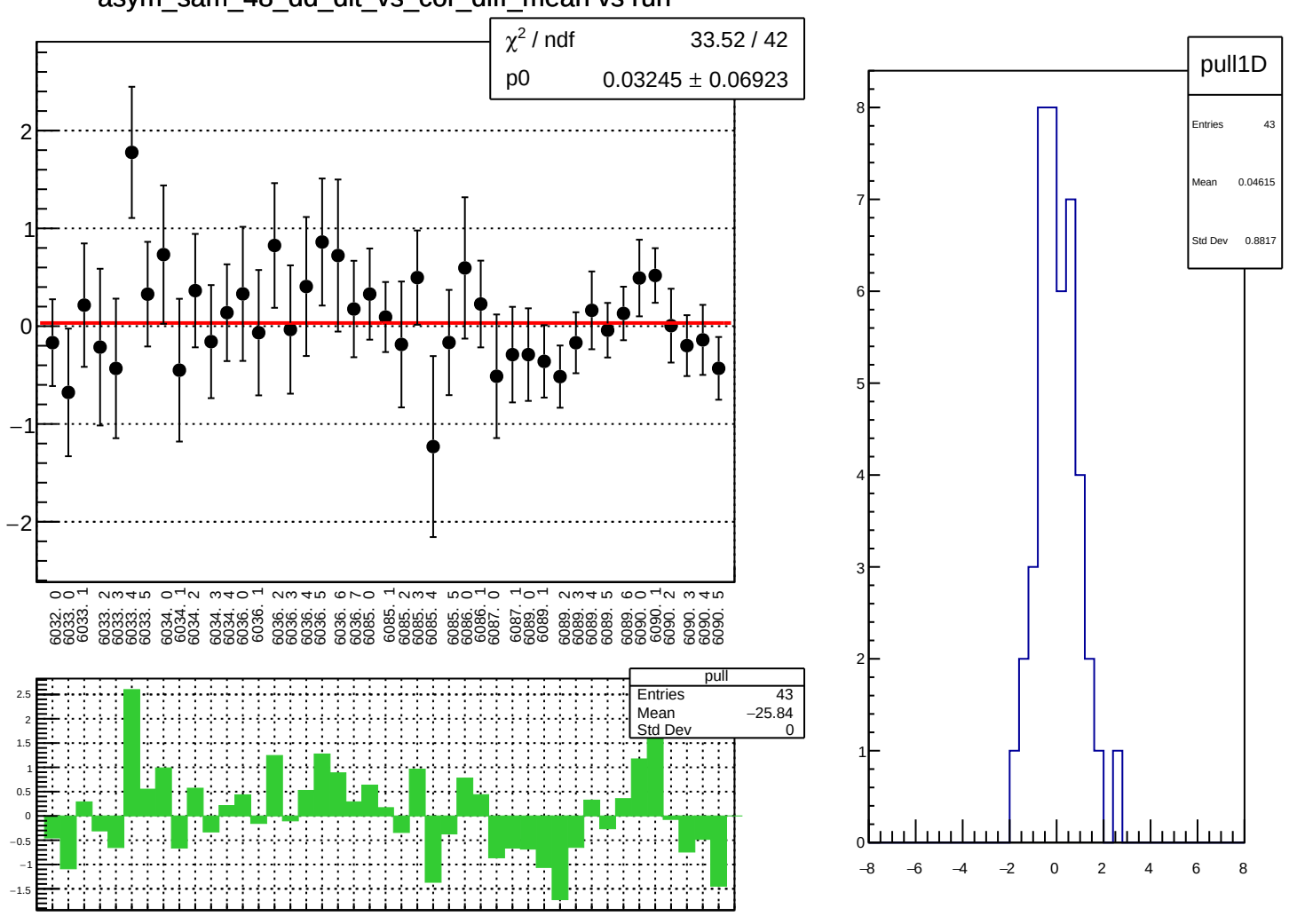

asym_sam_48_dd_mean vs run
χ² / ndf 38.13 / 42
p0 2362 ± 2008
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.2725
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

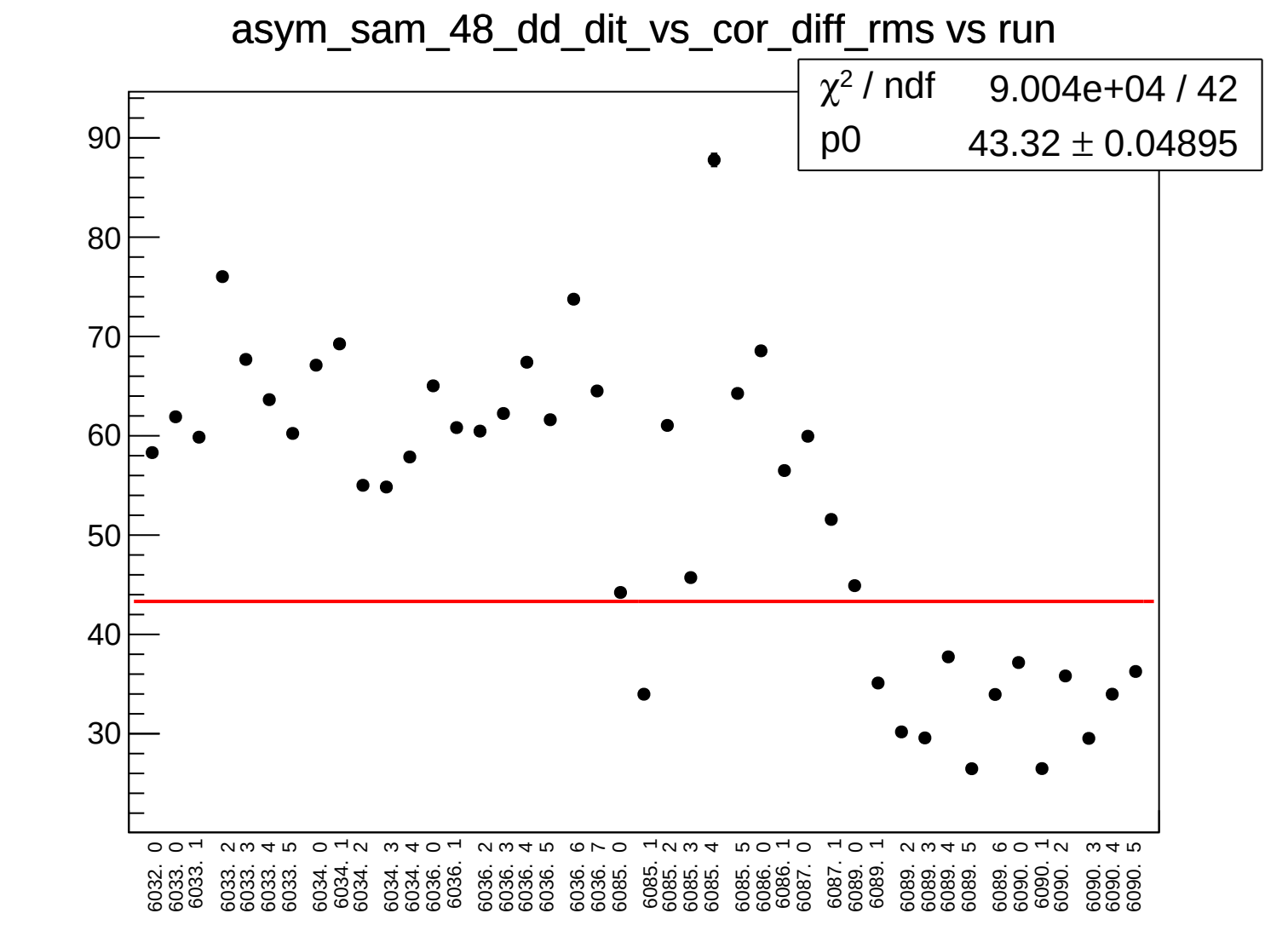

pull1D
Entries 43
Mean −0.01543
Std Dev 0.9415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

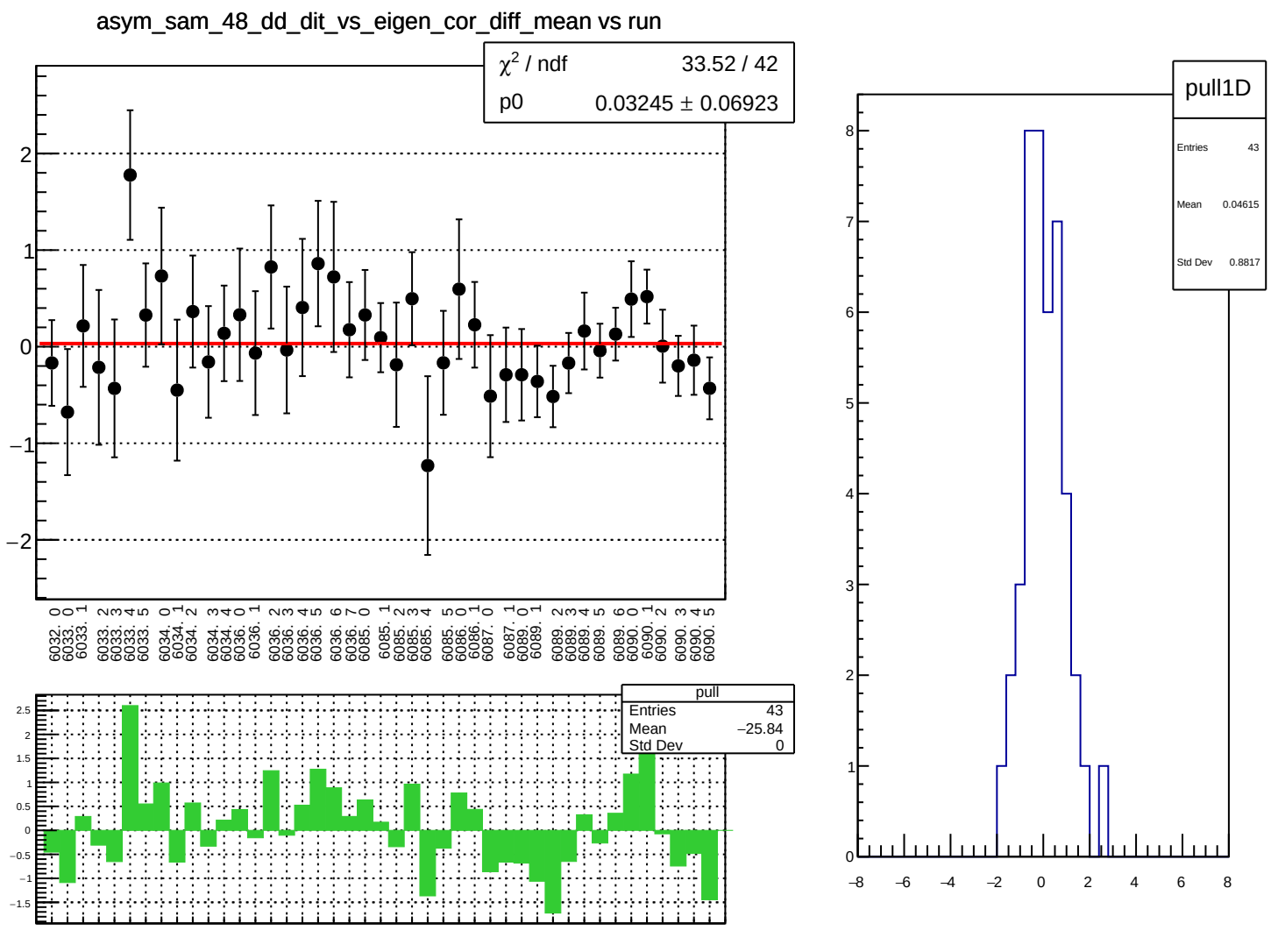

asym_sam_48_dd_rms vs run
χ² / ndf 1435 / 42
p0 1326 ± 1.42
1500
1450
1400
1350
1300
1250
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

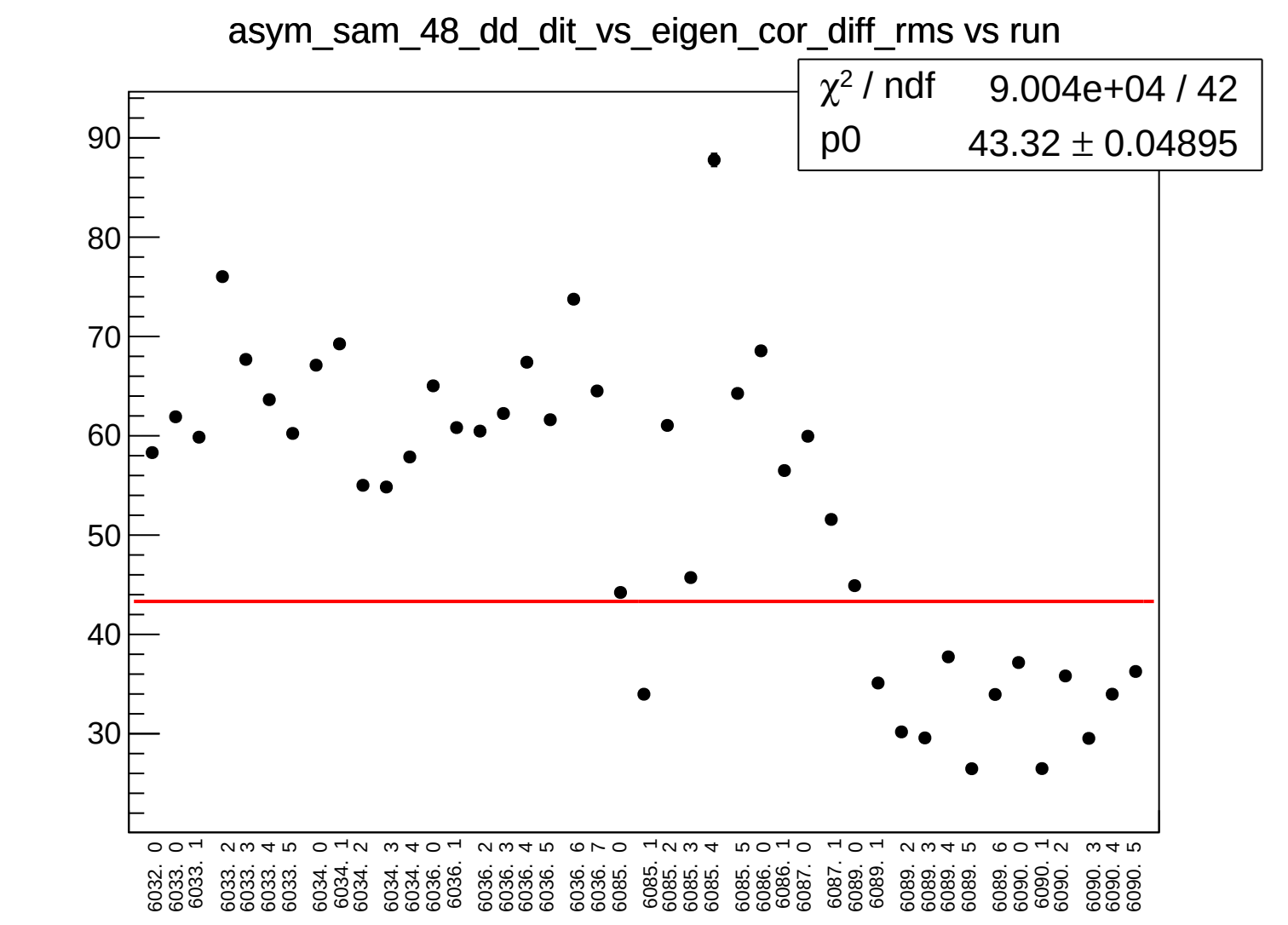

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 45.08 / 42
p0 −1.819e−13 ± 1.211e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0988
Std Dev 1.019
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

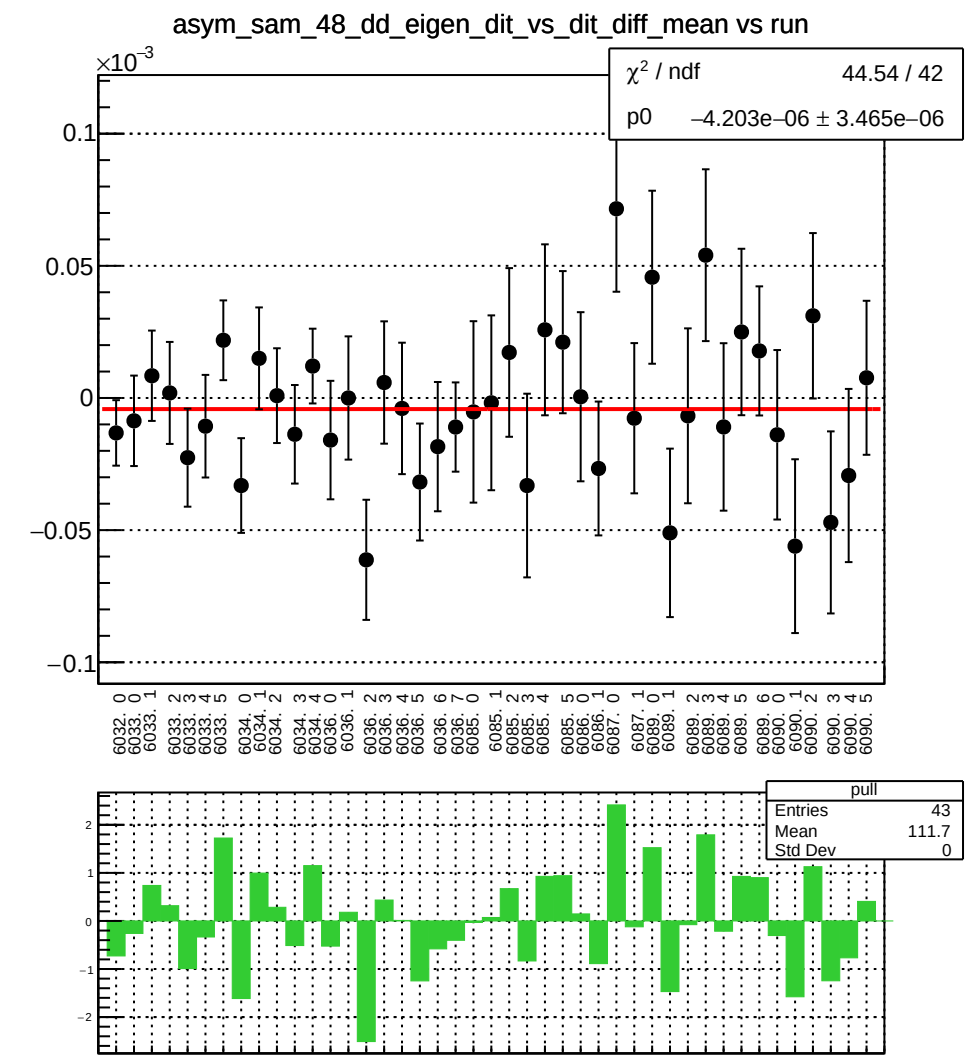

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.688e+05 / 42
p0 5.444e−11 ± 8.561e−14
0.1
0.08
0.06
0.04
0.02
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

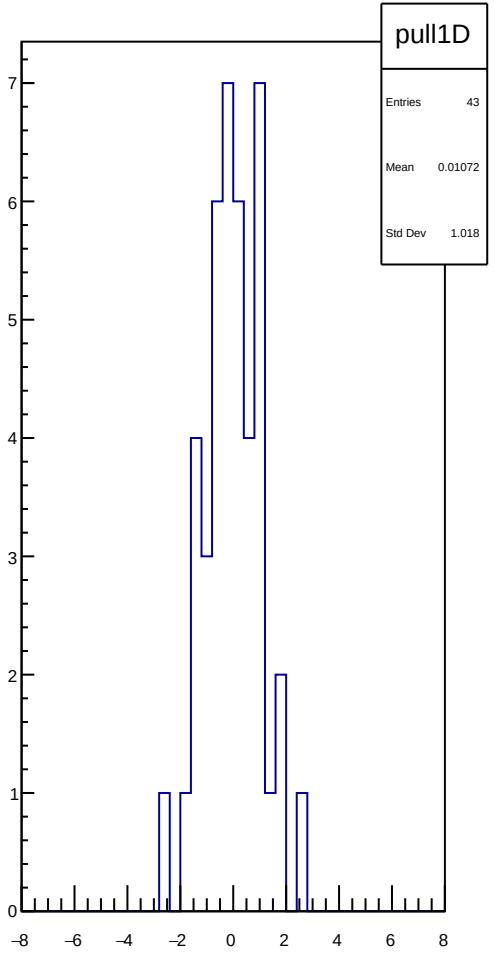

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.52 / 42
p0 0.03245 ± 0.06923
pull
Entries 43
Mean −25.84
Std Dev 0
pull1D
Entries 43
Mean 0.04615
Std Dev 0.8817

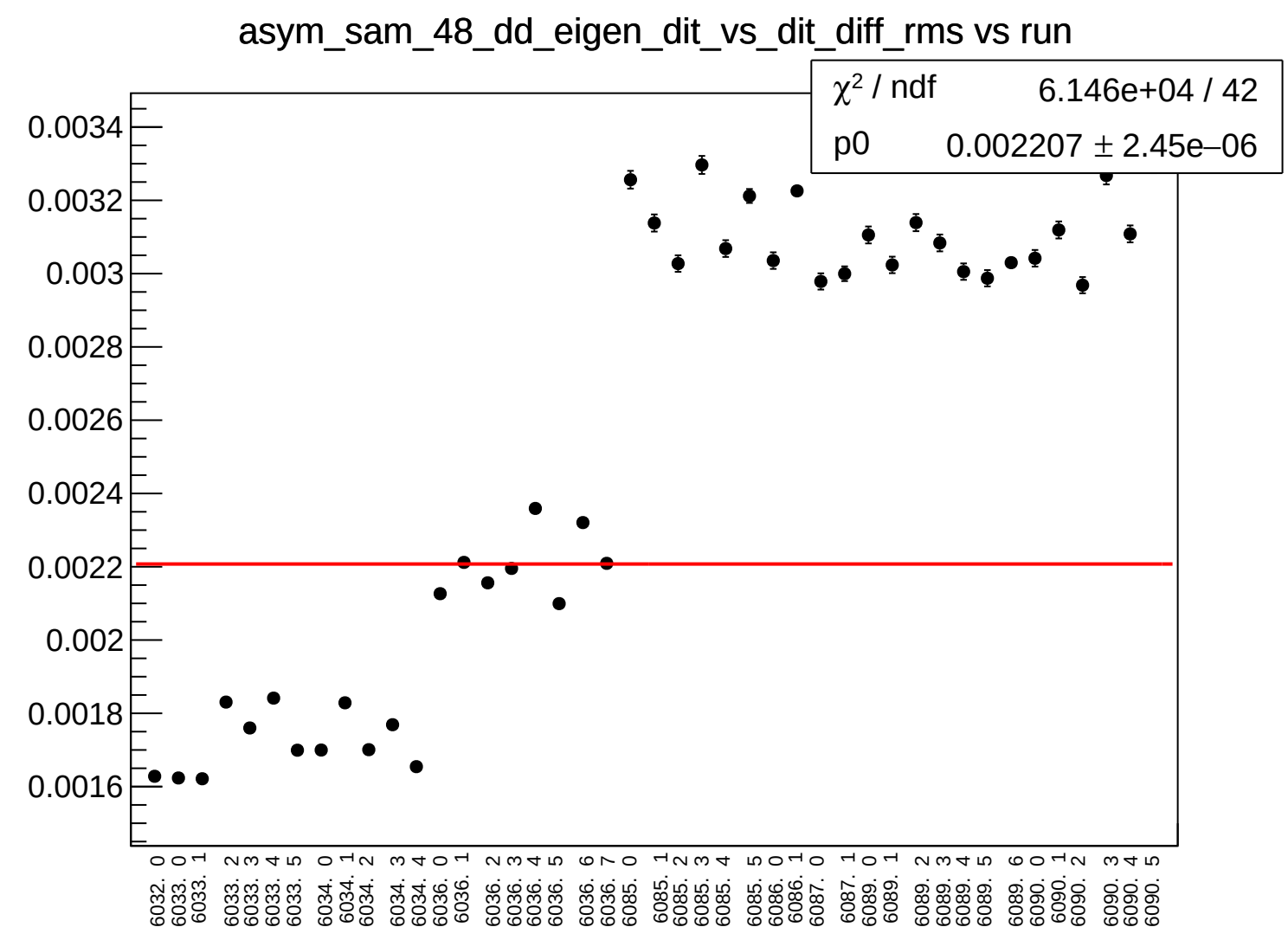

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.004e+04 / 42
p0 43.32 ± 0.04895
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

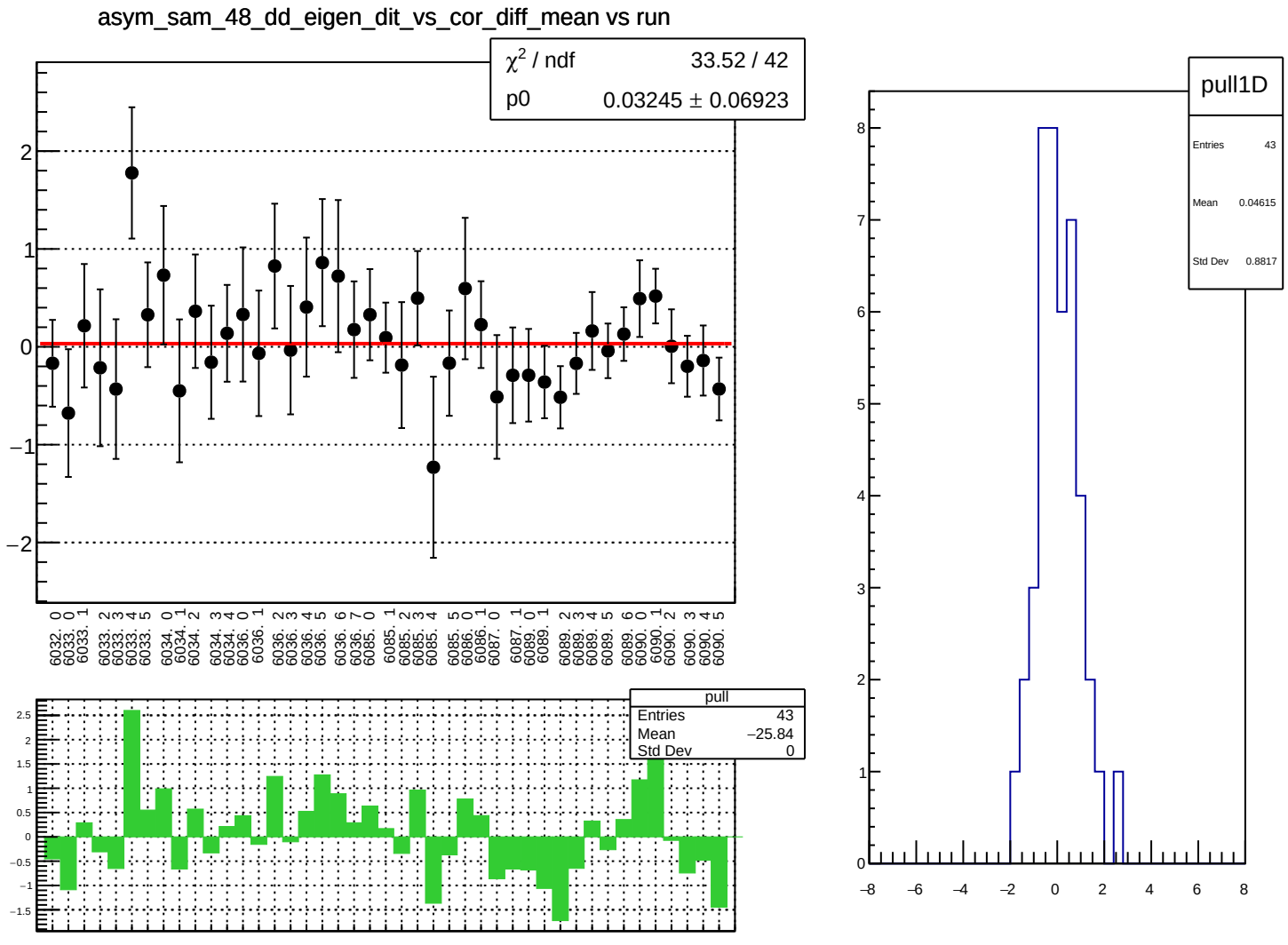

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.52 / 42
p0 0.03245 ± 0.06923
pull
Entries 43
Mean −25.84
Std Dev 0
pull1D
Entries 43
Mean 0.04615
Std Dev 0.8817

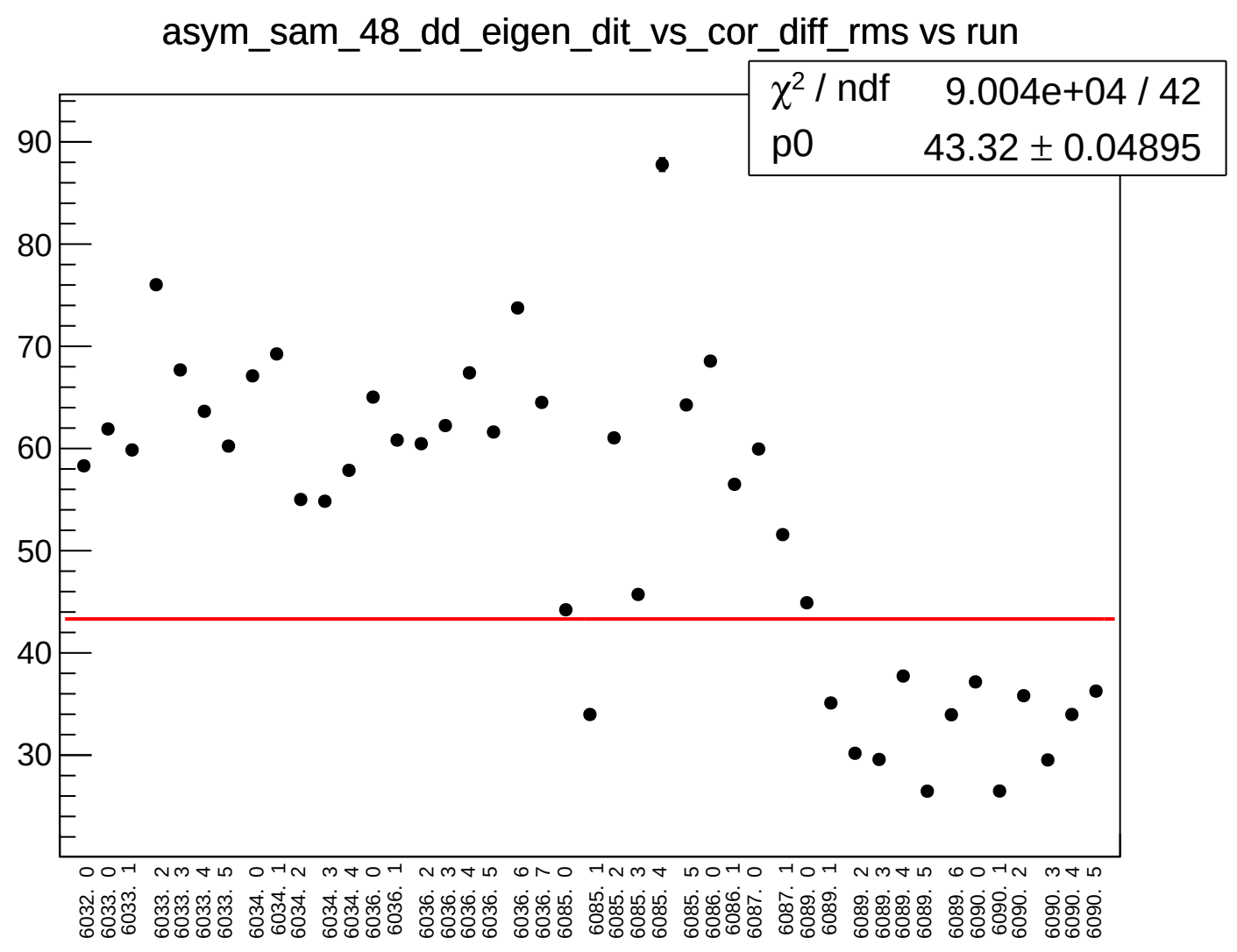

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.004e+04 / 42
p0 43.32 ± 0.04895
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

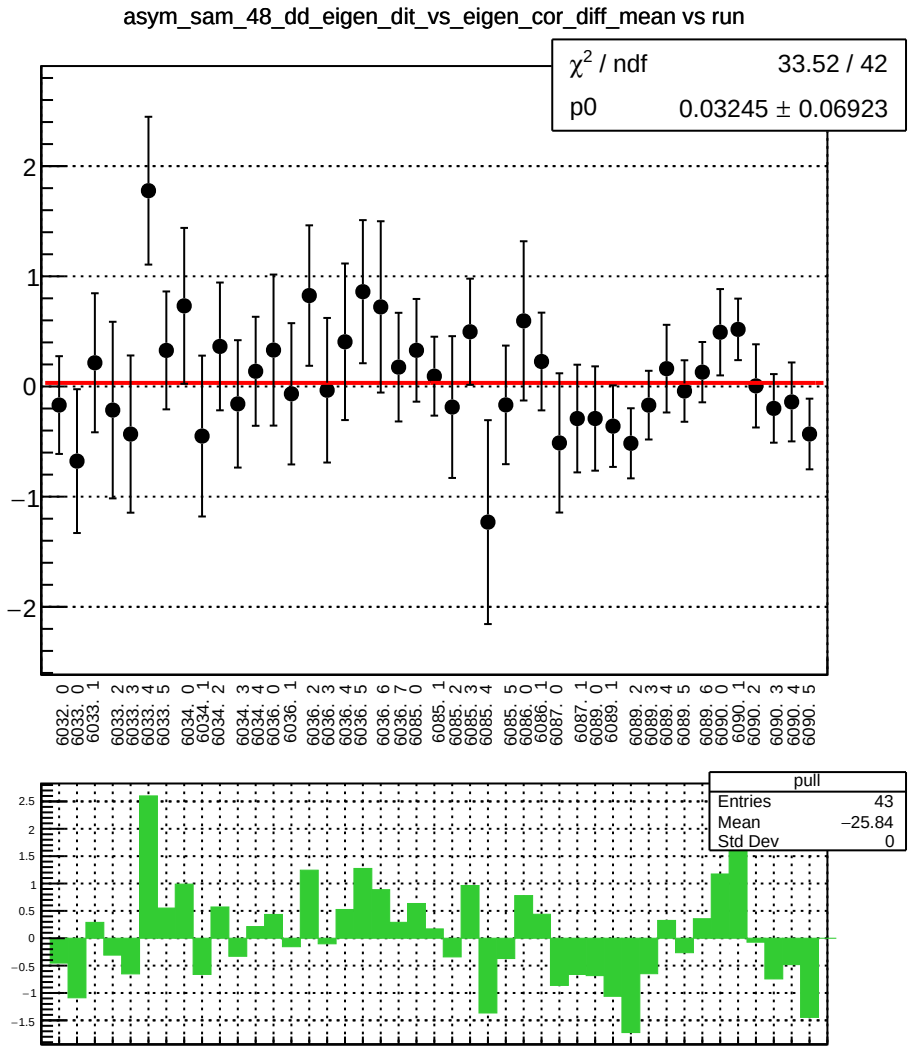

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.54 / 42
p0 −4.203e−06 ± 3.465e−06
0.1
0.05
0
−0.05
−0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 111.7
Std Dev 0
2
1
0
−1
−2

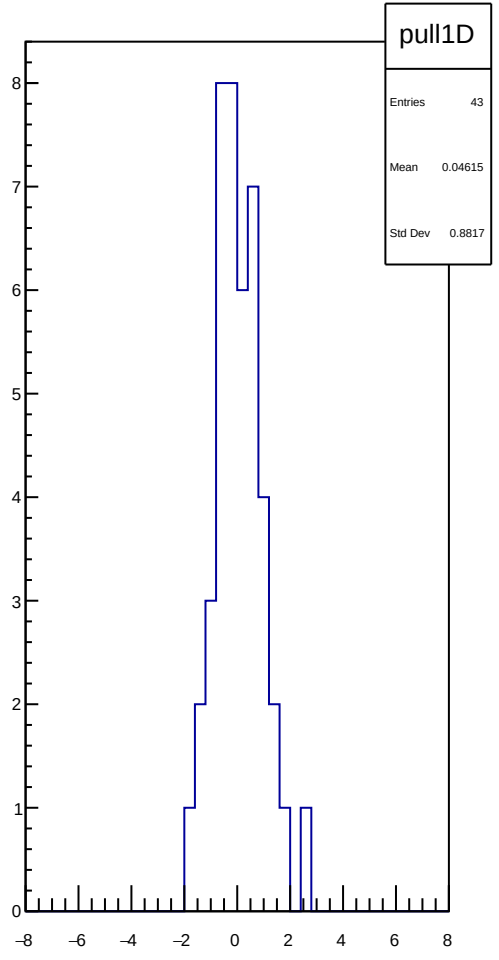

pull1D
Entries 43
Mean 0.01072
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

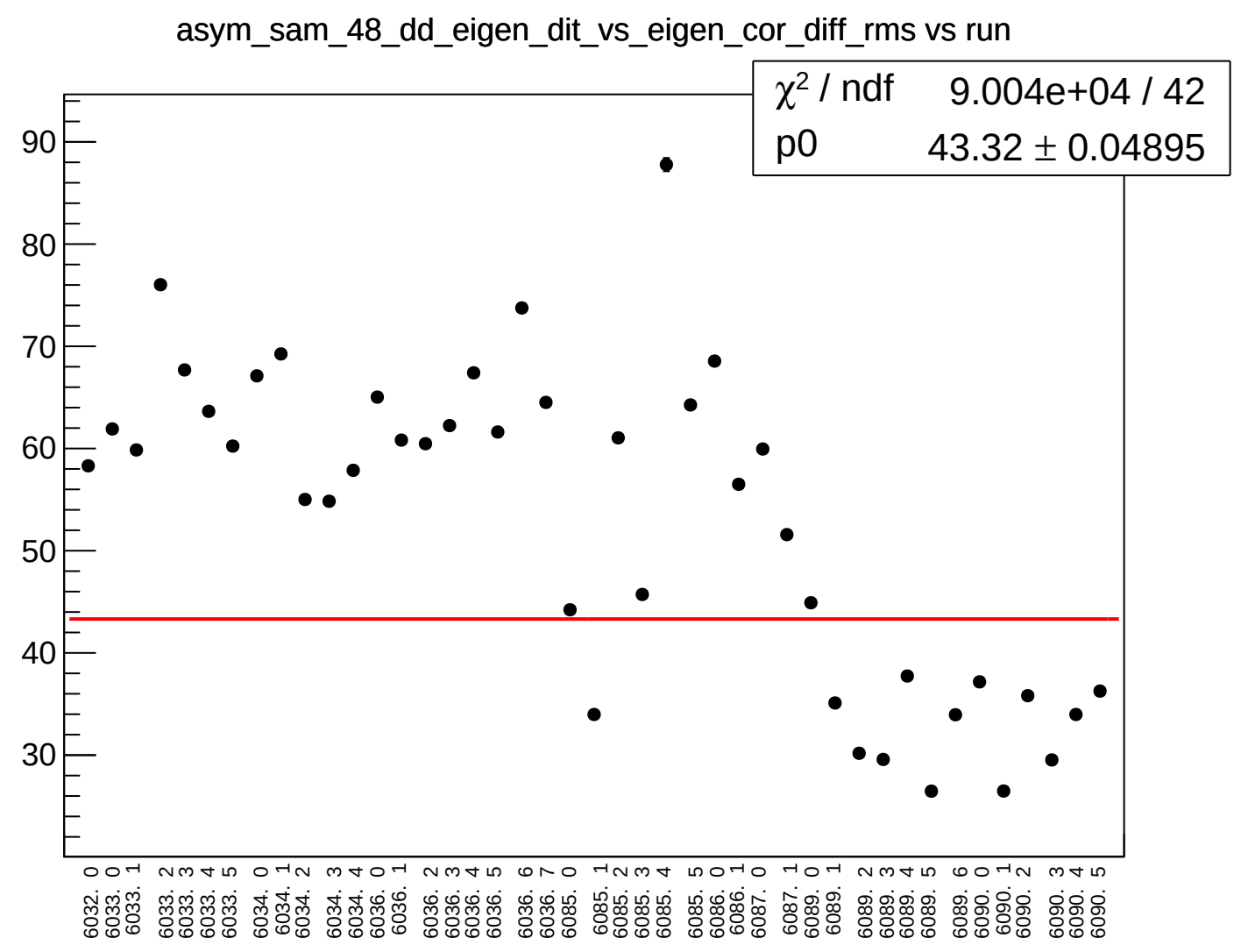

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.146e+04 / 42
p0 0.002207 ± 2.45e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

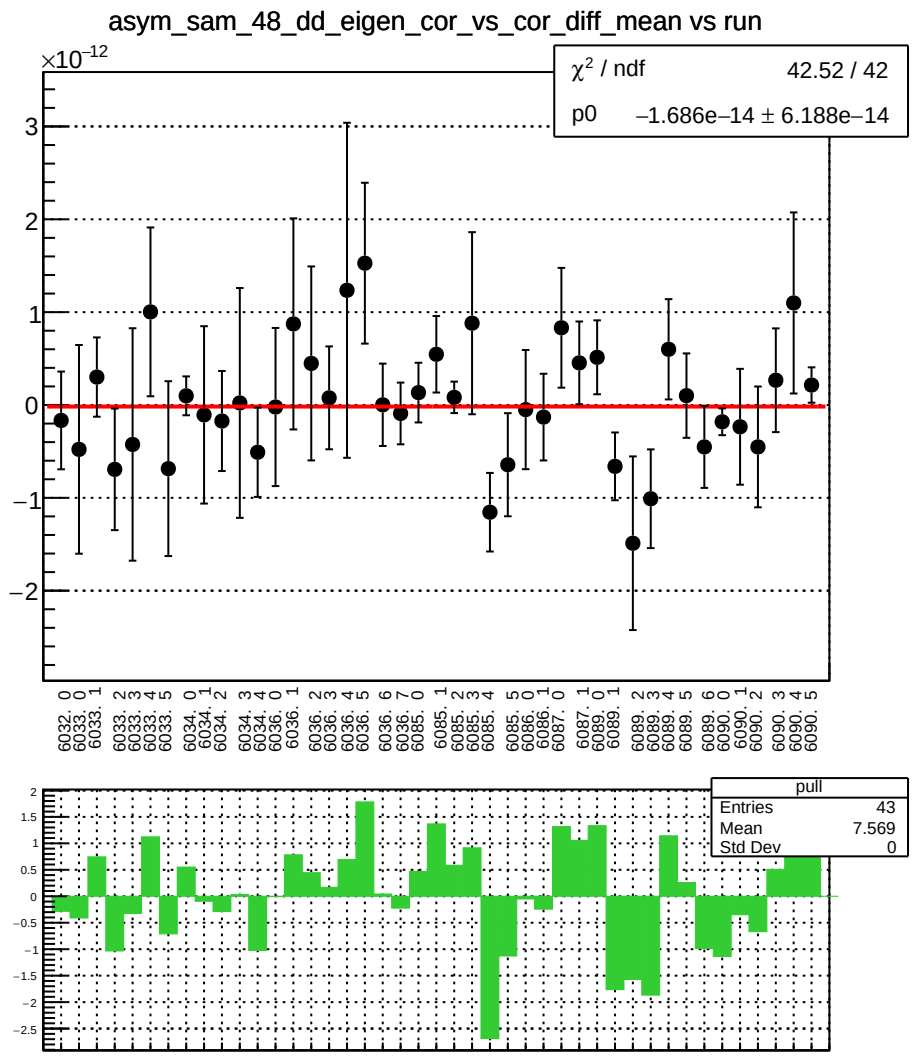

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.52 / 42
p0 0.03245 ± 0.06923
pull
Entries 43
Mean −25.84
Std Dev 0
pull1D
Entries 43
Mean 0.04615
Std Dev 0.8817

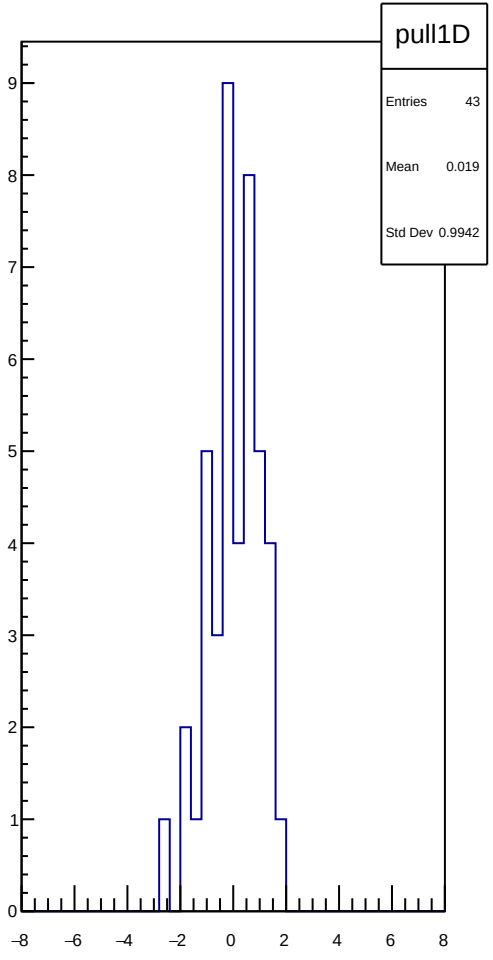

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.004e+04 / 42
p0 43.32 ± 0.04895
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

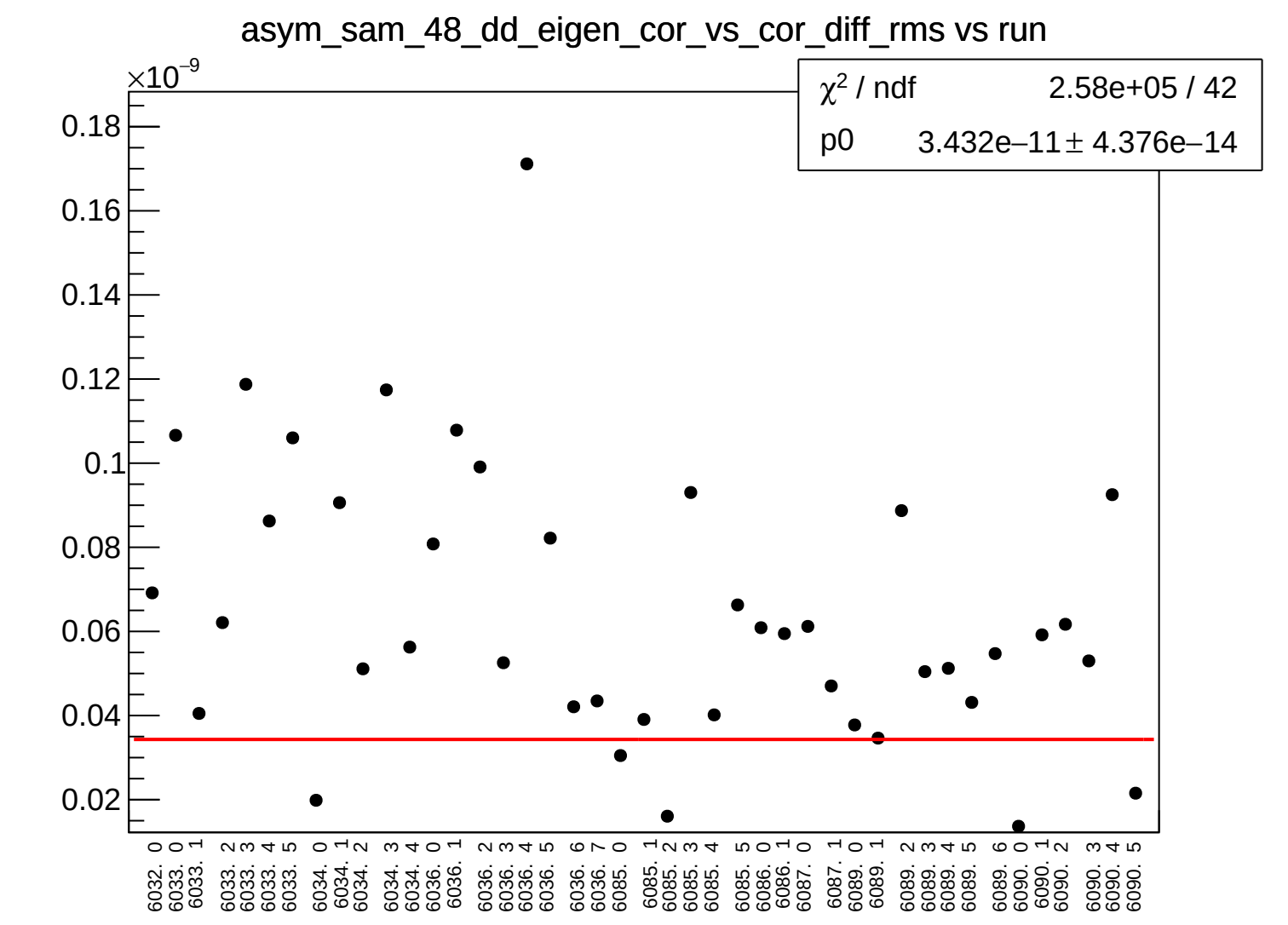

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.52 / 42
p0 0.03245 ± 0.06923
pull
Entries 43
Mean −25.84
Std Dev 0

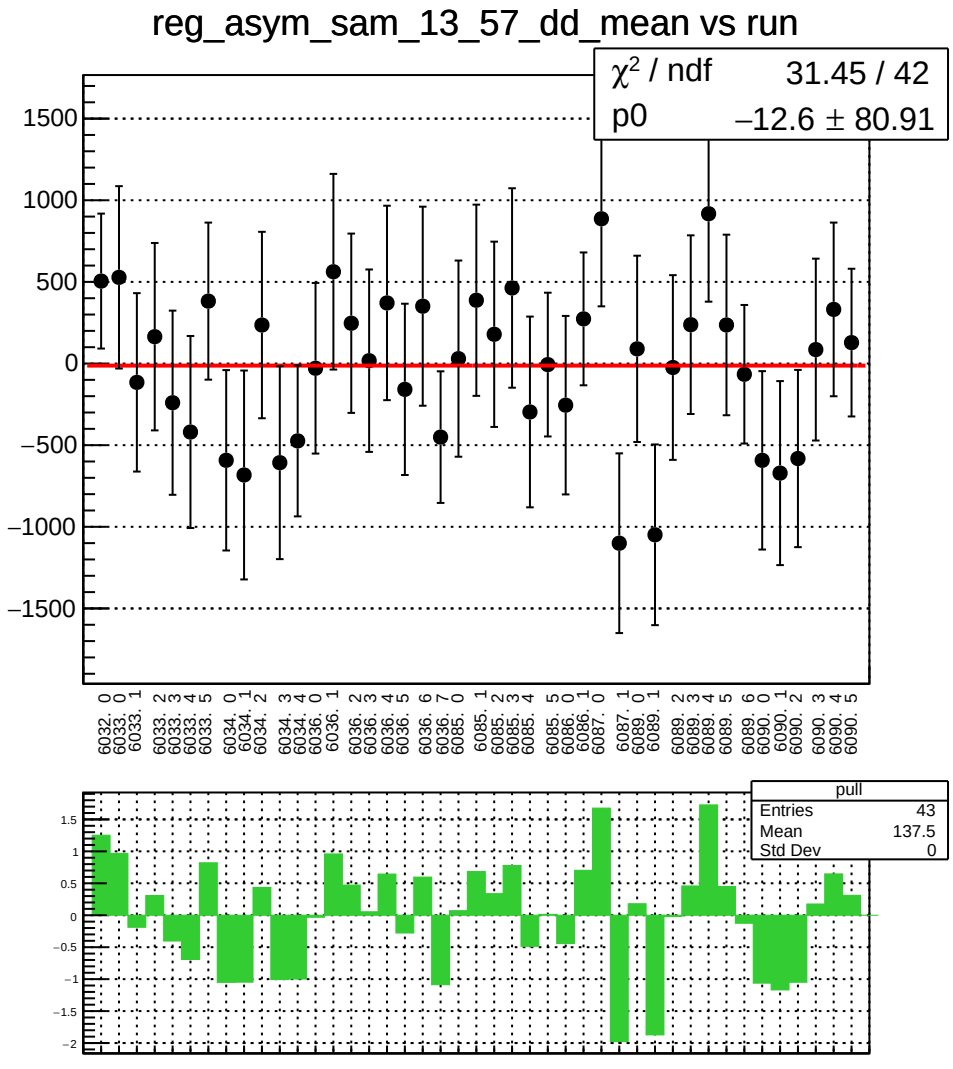

pull1D
Entries 43
Mean 0.04615
Std Dev 0.8817

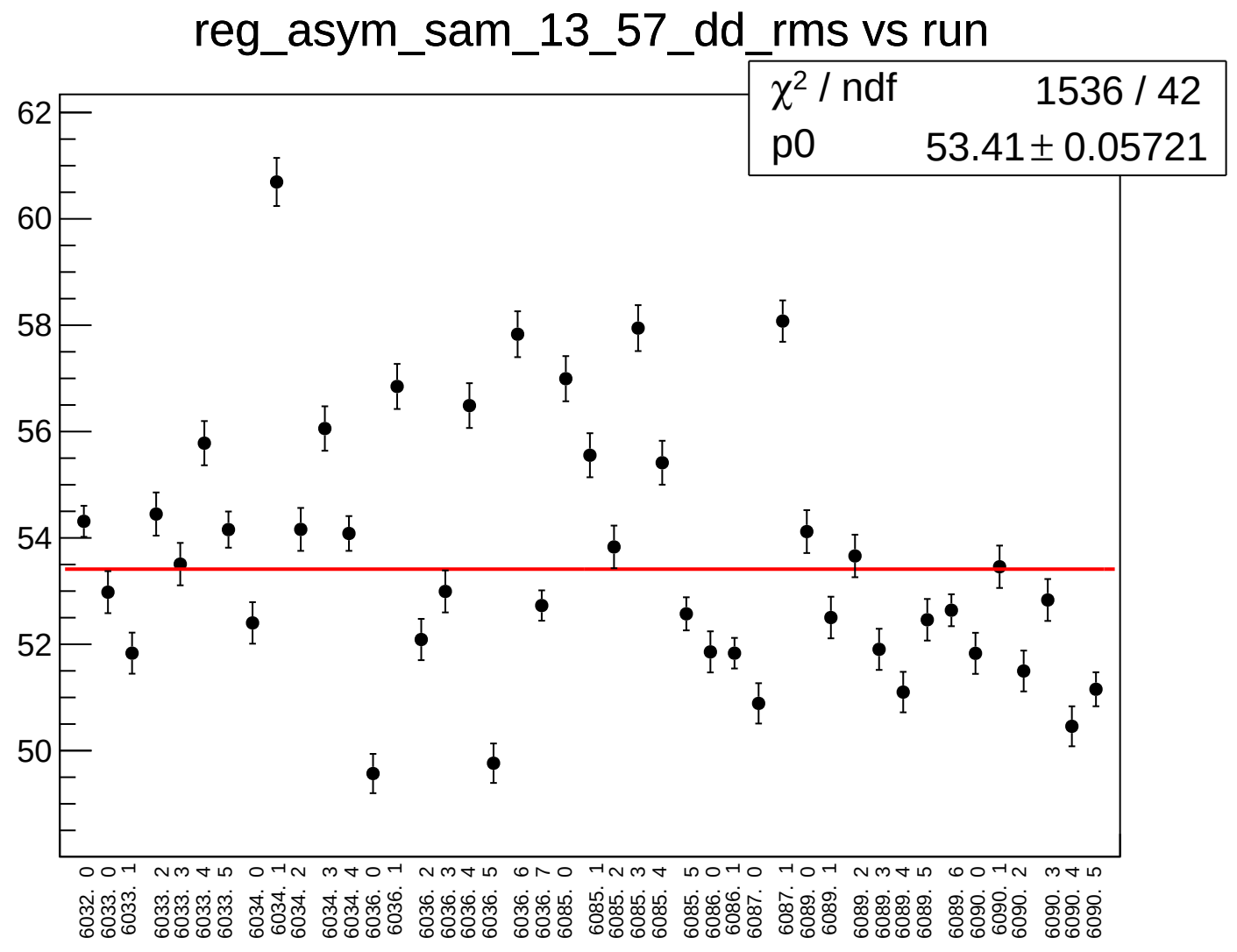

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.004e+04 / 42
p0 43.32 ± 0.04895
90
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

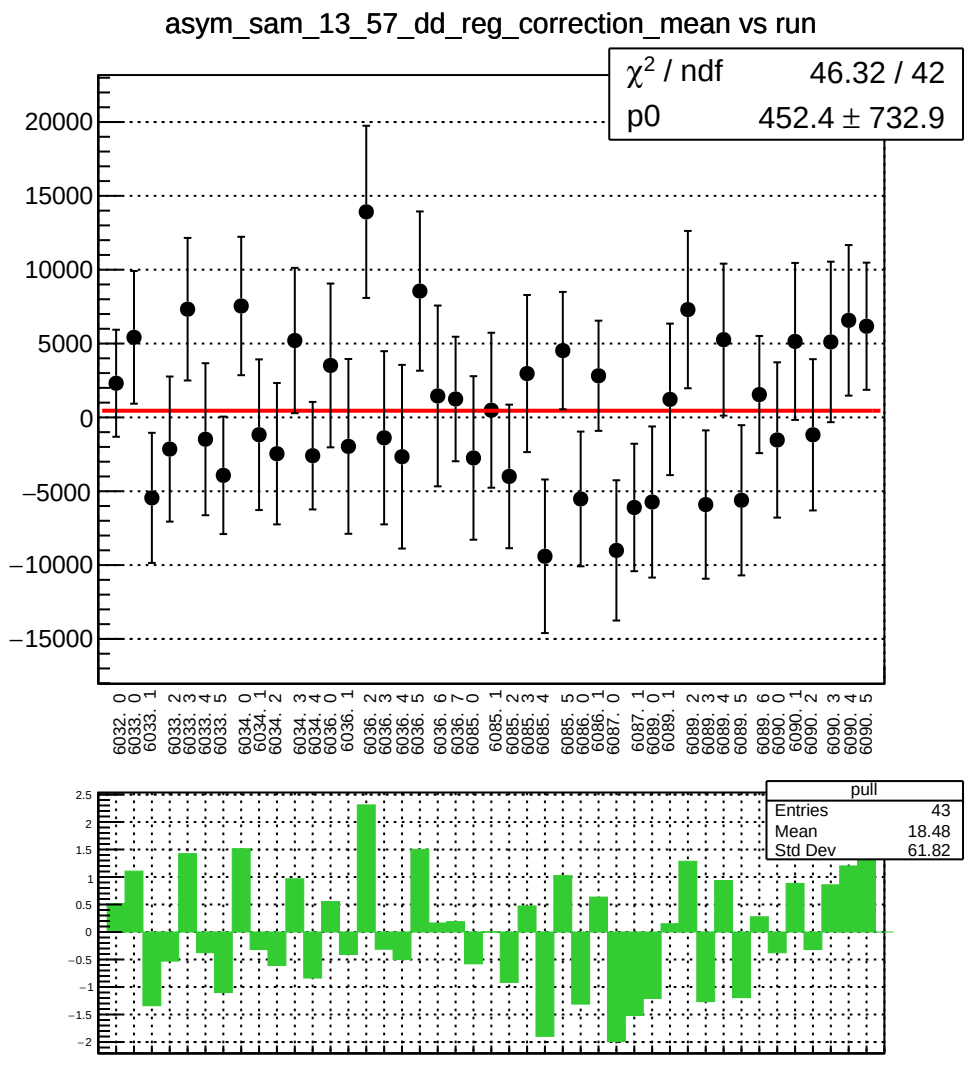

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.52 / 42
p0 −1.686e−14 ± 6.188e−14
3
2
1
0
−1
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.569
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

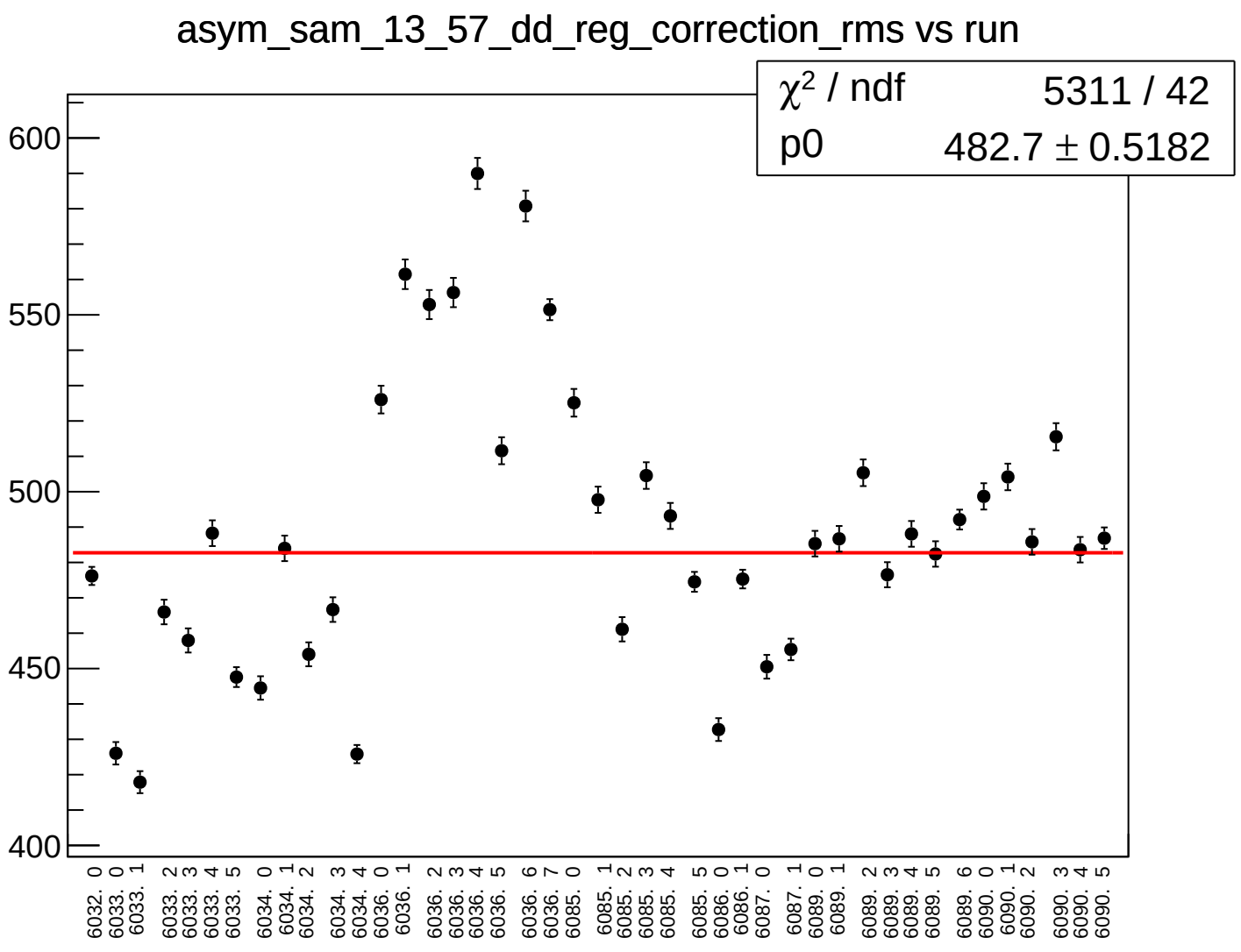

pull1D
Entries 43
Mean 0.019
Std Dev 0.9942
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

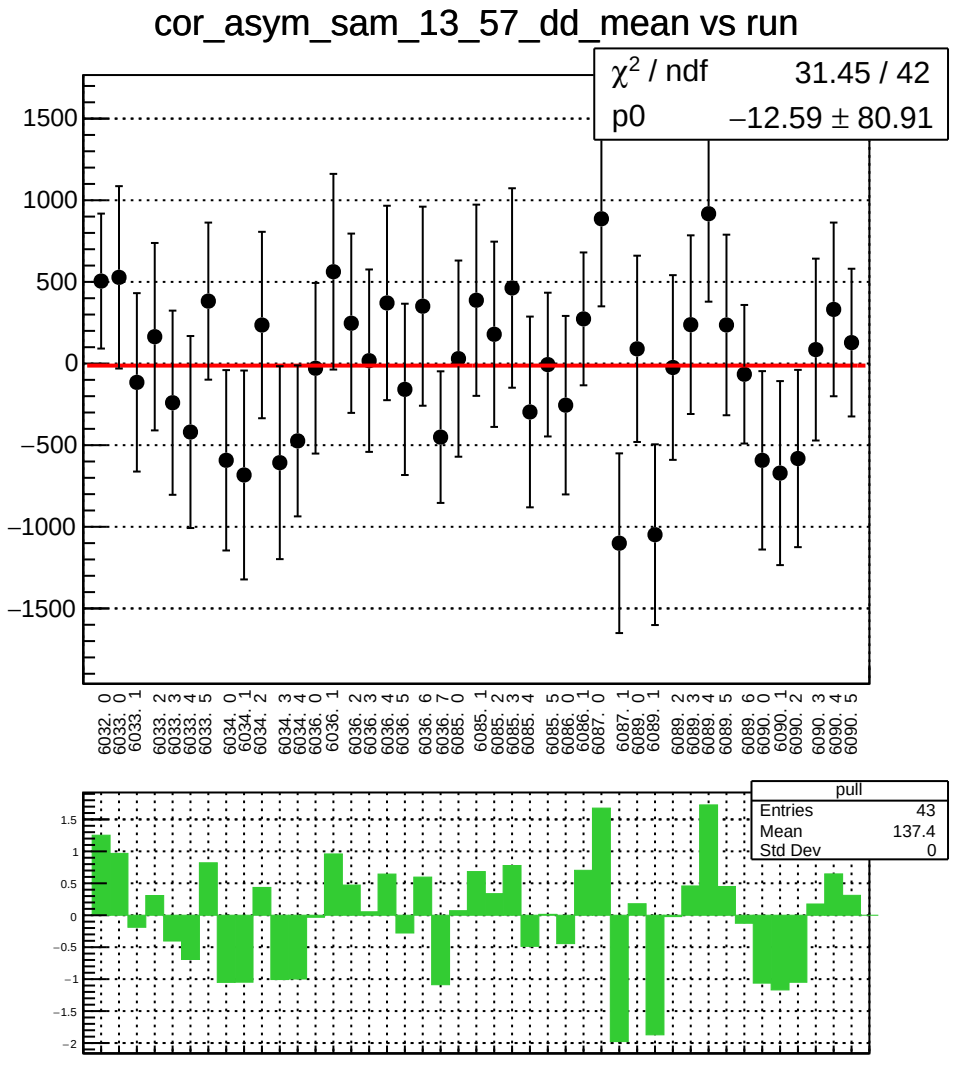

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.58e+05 / 42
p0 3.432e−11 ± 4.376e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

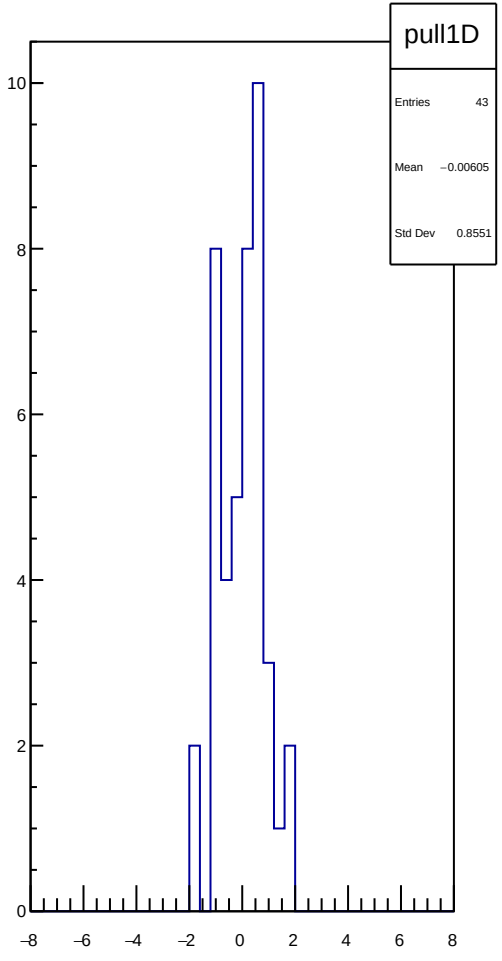

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.45 / 42
p0 −12.6 ± 80.91
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 137.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.006051
Std Dev 0.8552
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

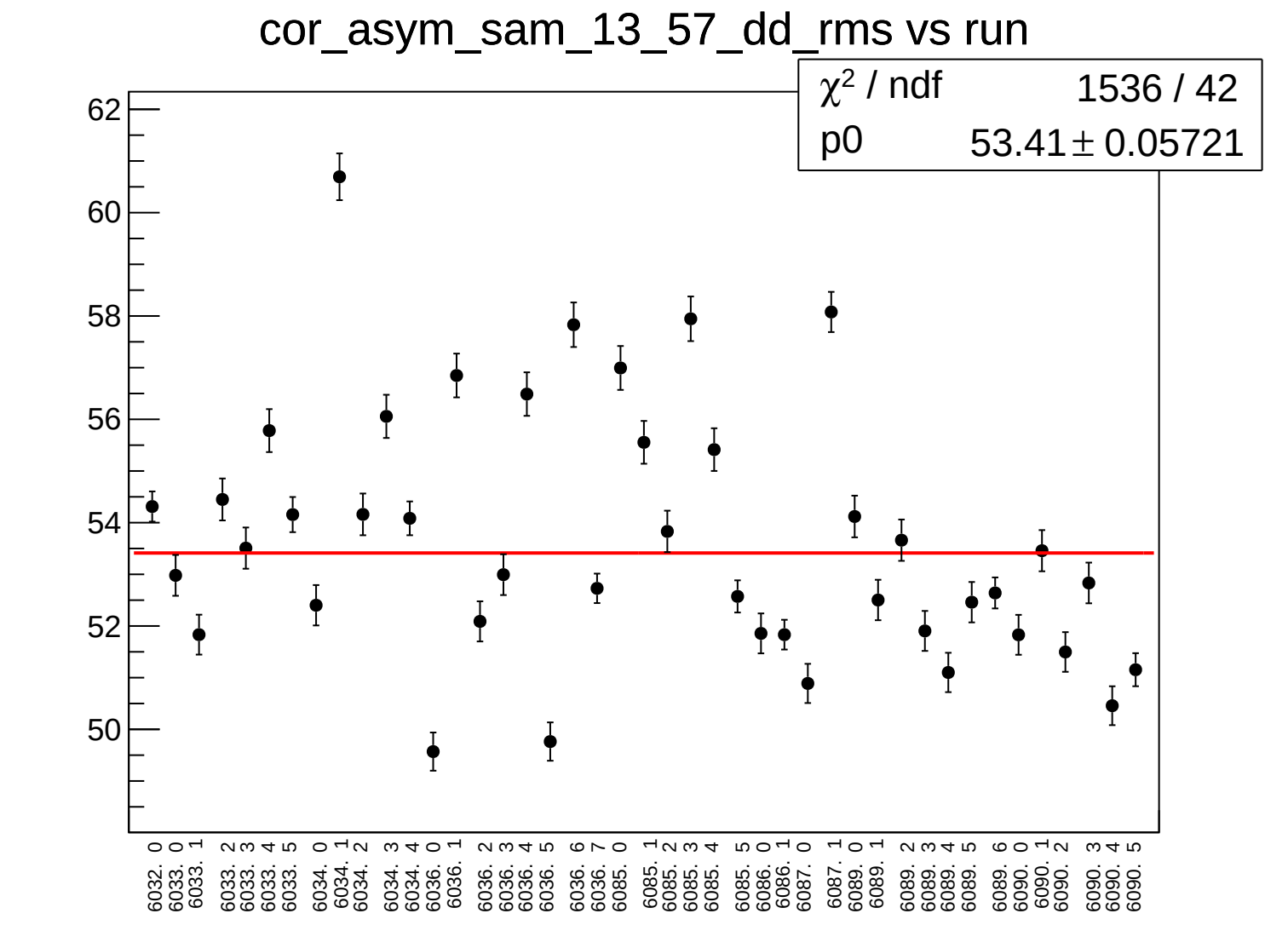

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1536 / 42
p0 53.41 ± 0.05721
62
60
58
56
54
52
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

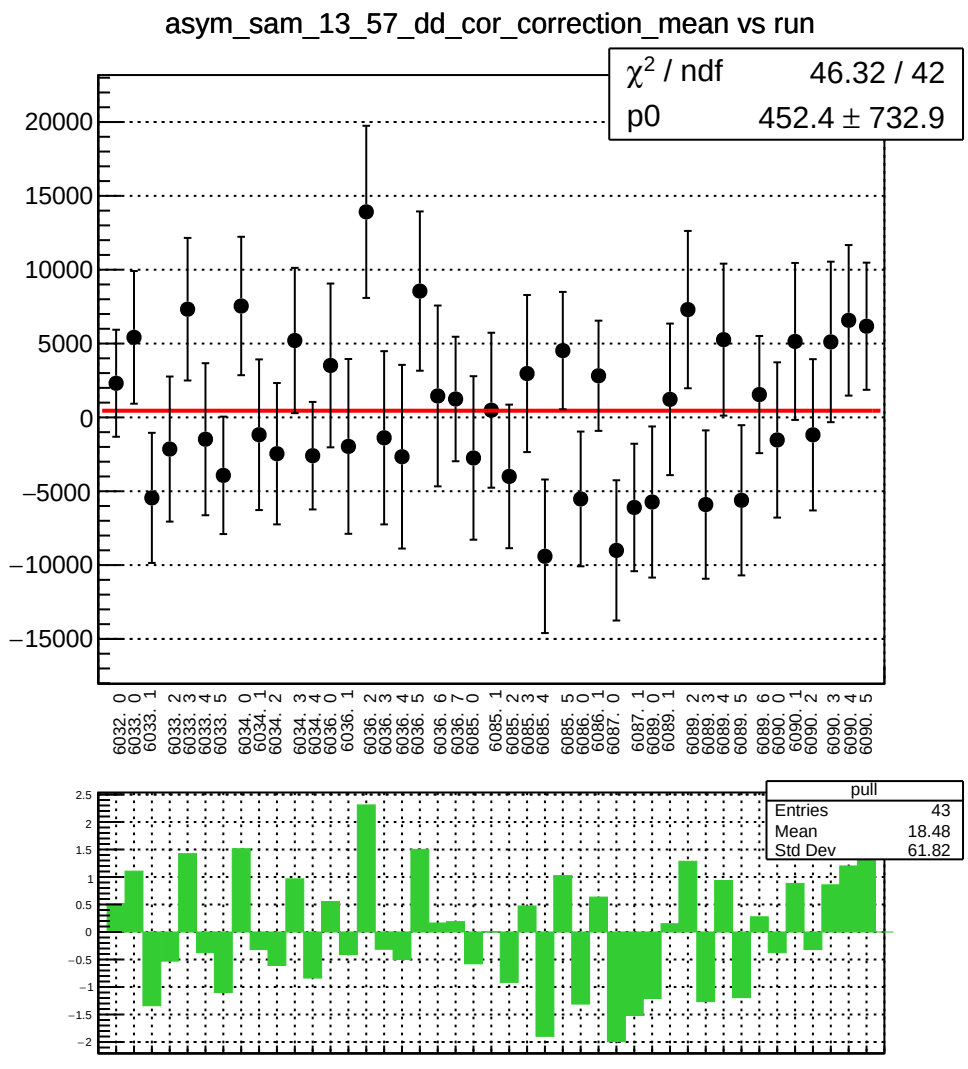

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 46.32 / 42
p0 452.4 ± 732.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.48
Std Dev 61.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.009151
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

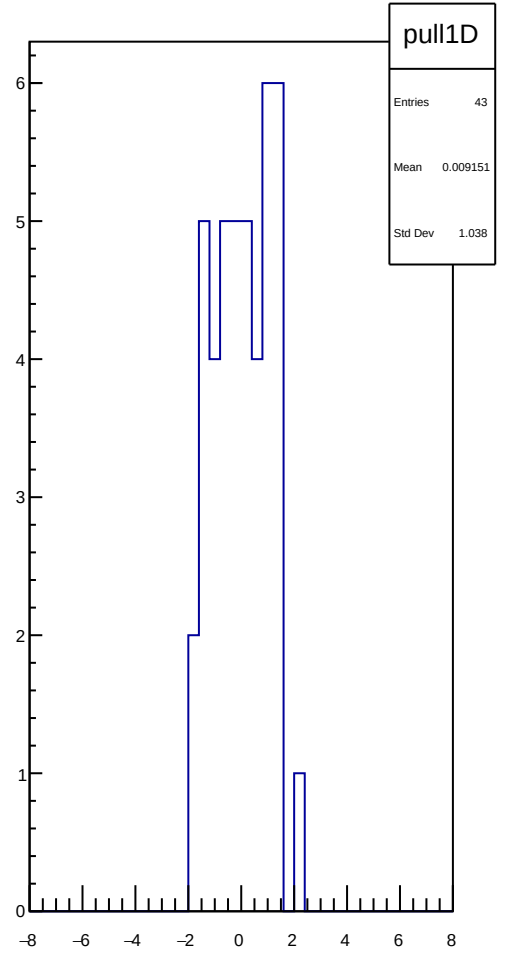

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5311 / 42
p0 482.7 ± 0.5182
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

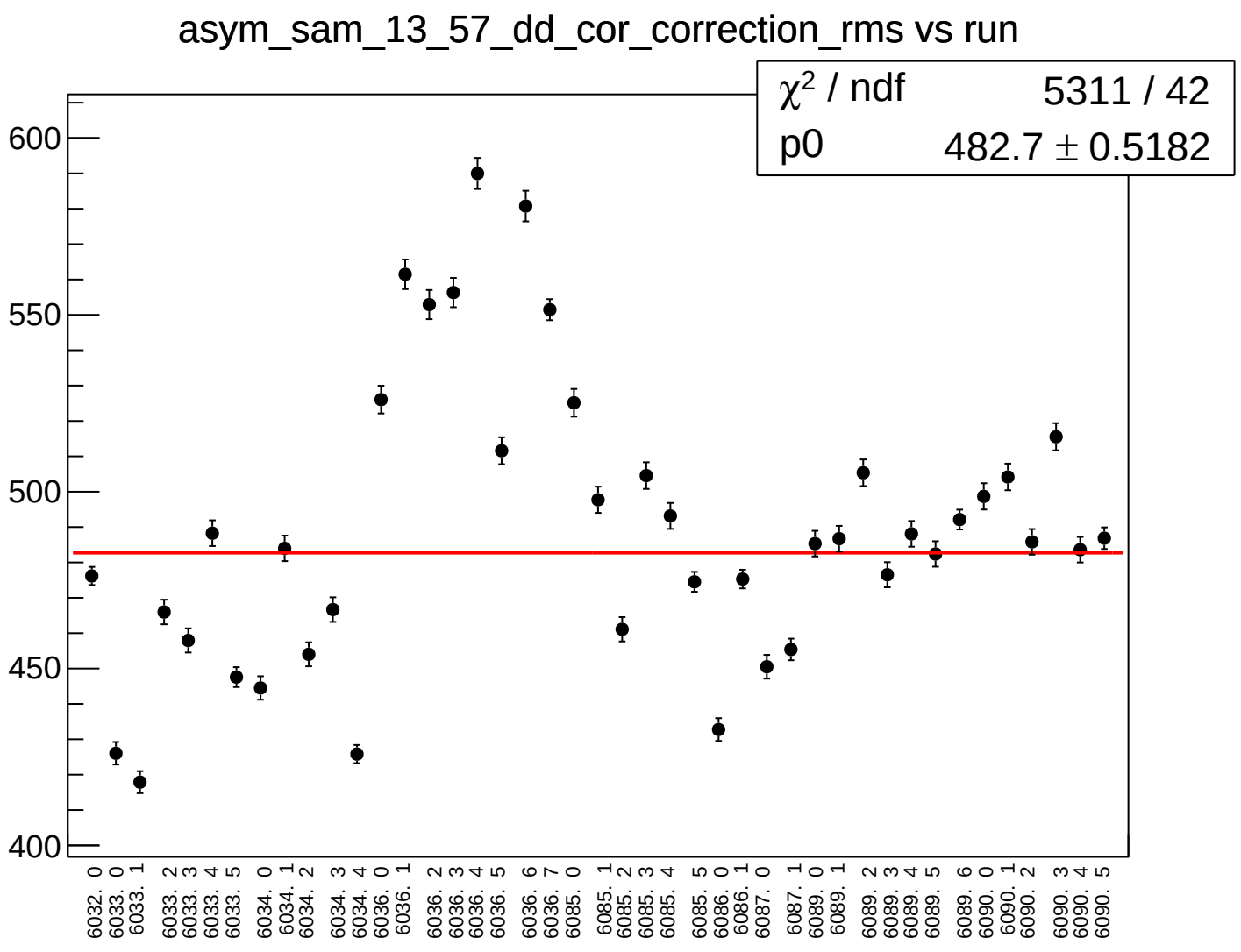

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.45 / 42
p0 −12.59 ± 80.91
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 137.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

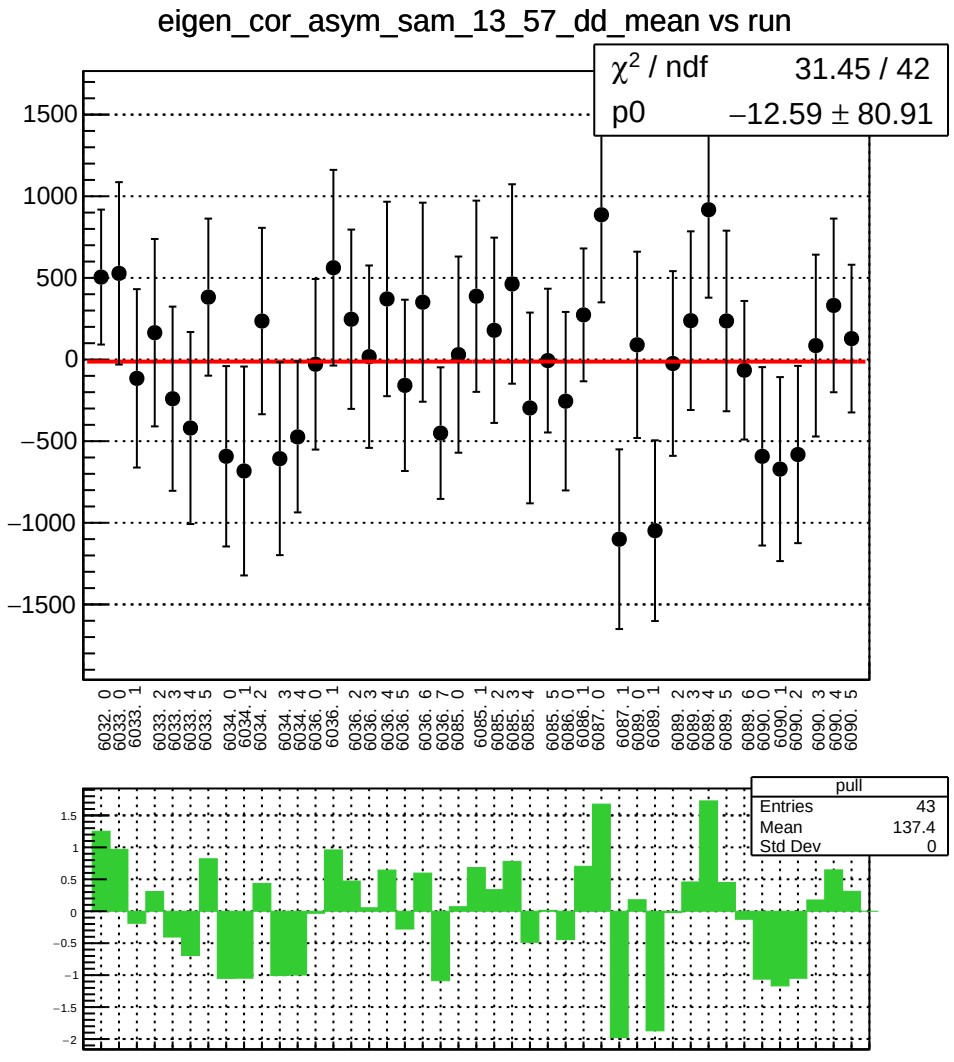

pull1D
Entries 43
Mean −0.00605
Std Dev 0.8551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

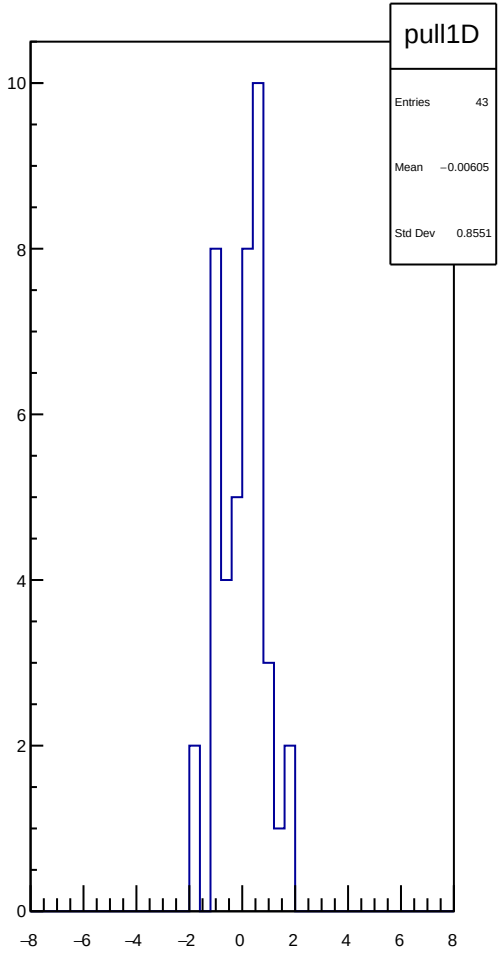

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1536 / 42
p0 53.41 ± 0.05721
62
60
58
56
54
52
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

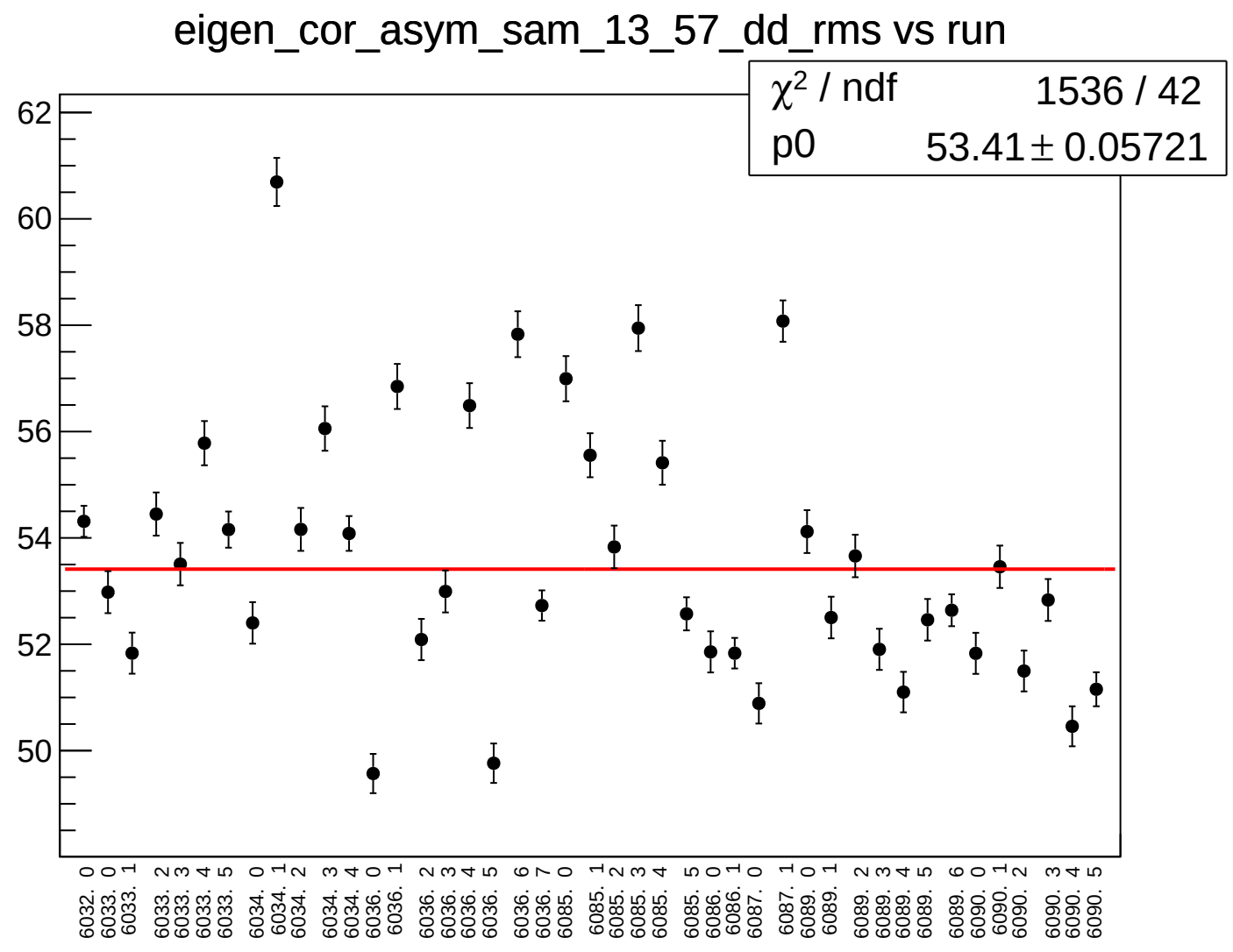

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 46.32 / 42
p0 452.4 ± 732.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.48
Std Dev 61.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

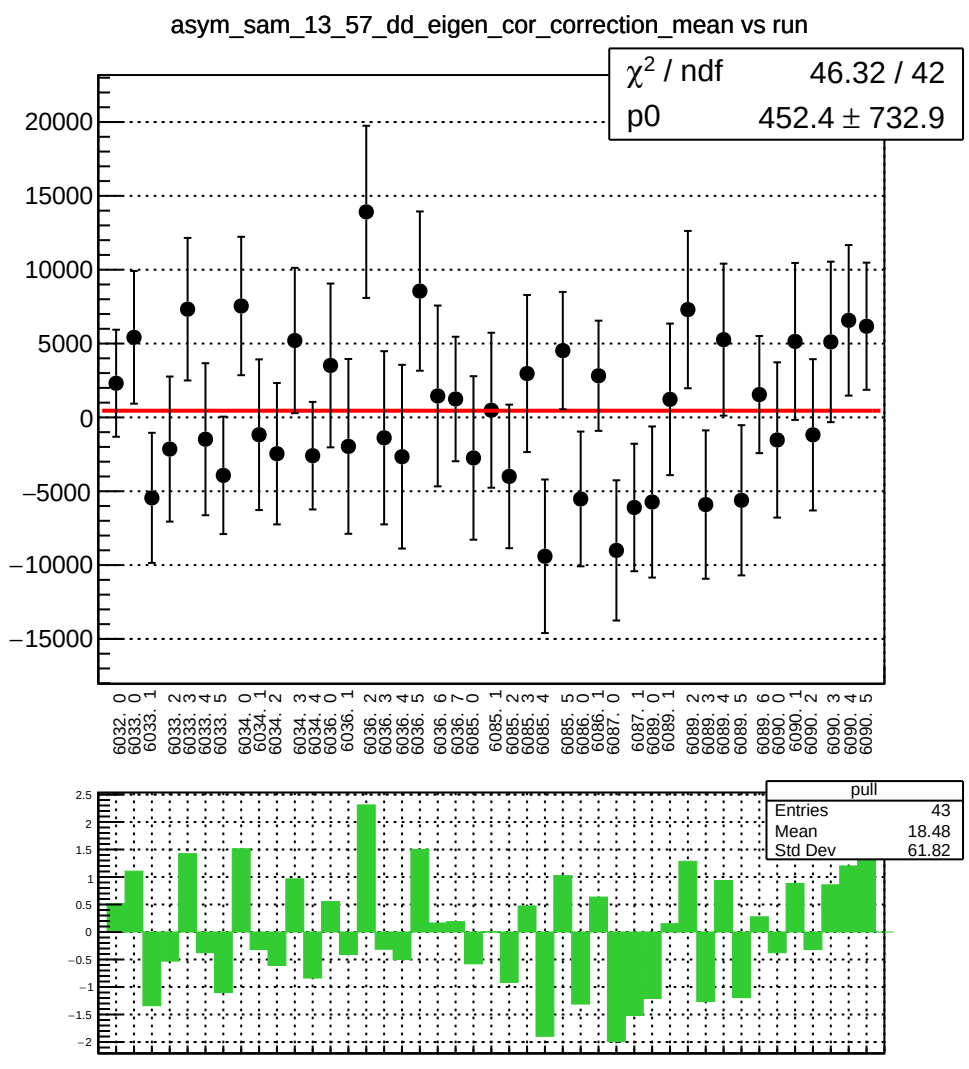

pull1D
Entries 43
Mean 0.009151
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

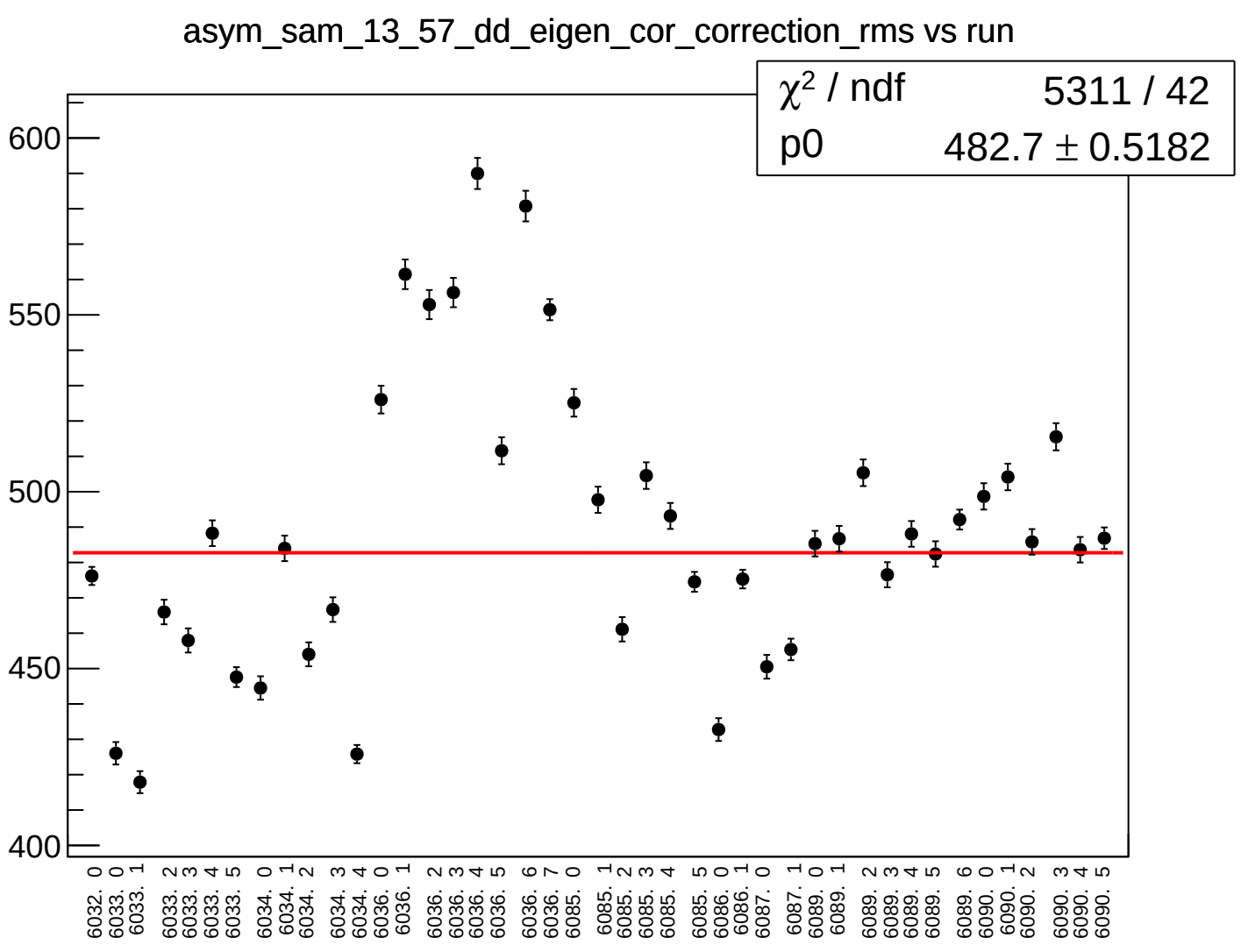

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5311 / 42
p0 482.7 ± 0.5182
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

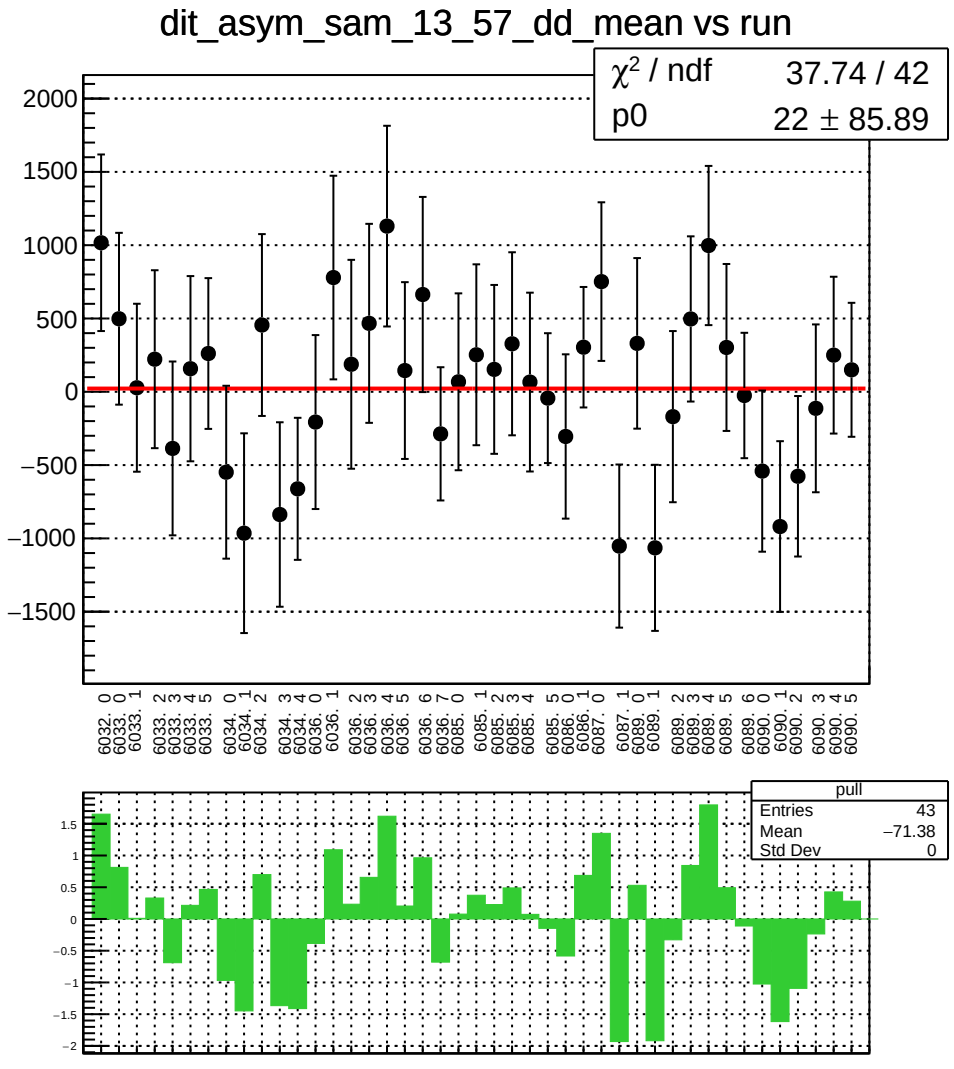

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.45 / 42
p0 −12.59 ± 80.91
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 137.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

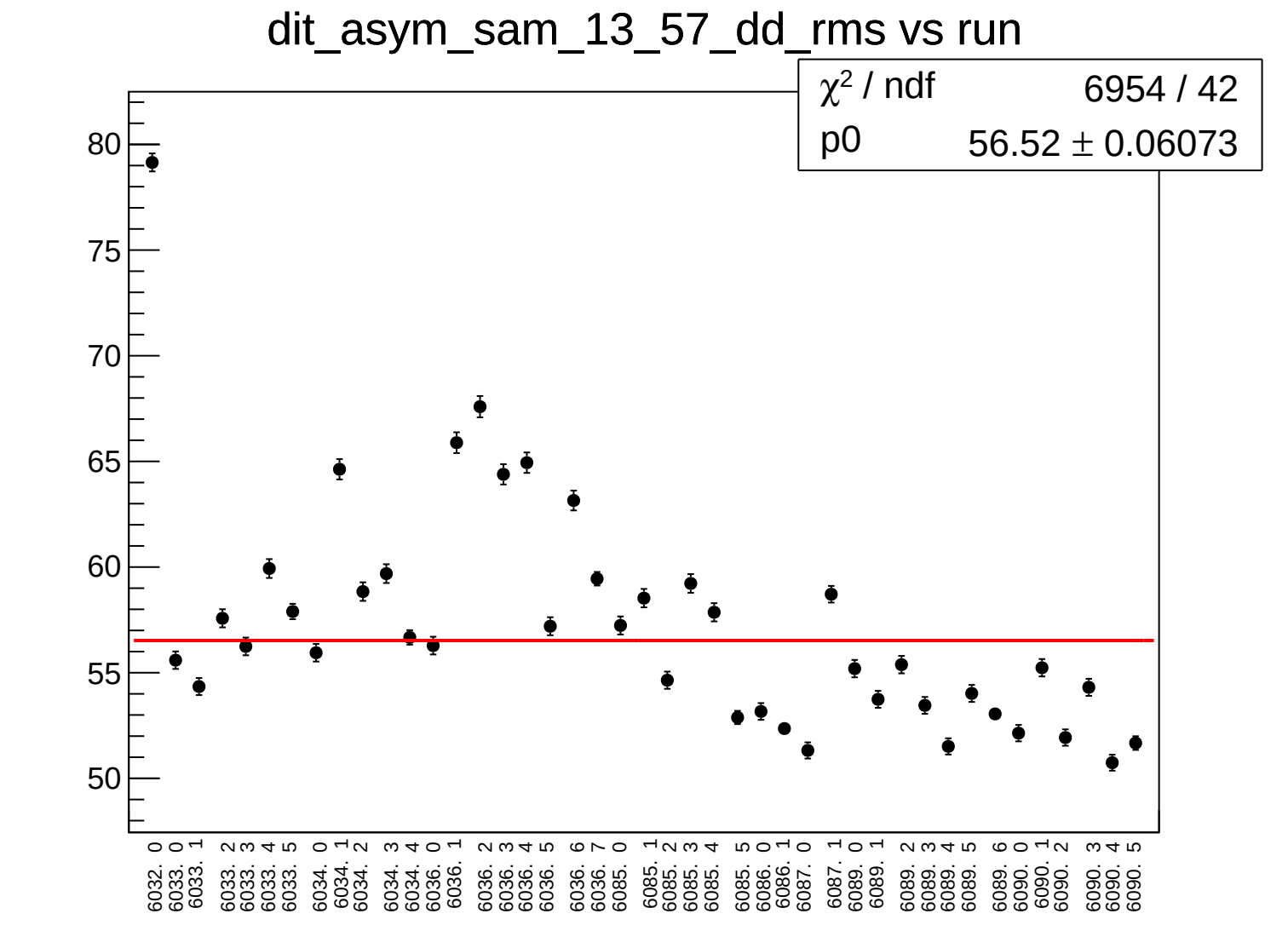

pull1D
Entries 43
Mean −0.00605
Std Dev 0.8551
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

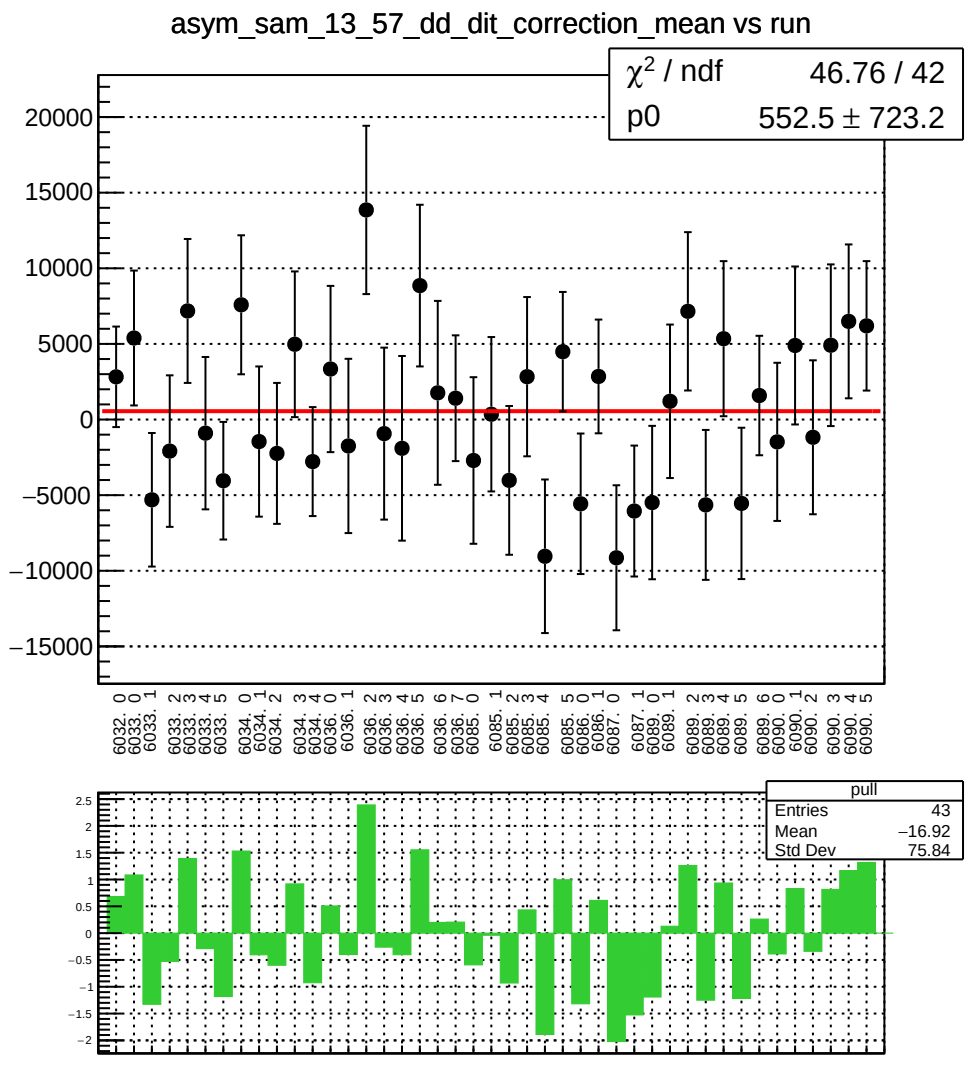

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1536 / 42
p0 53.41 ± 0.05721
62
60
58
56
54
52
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

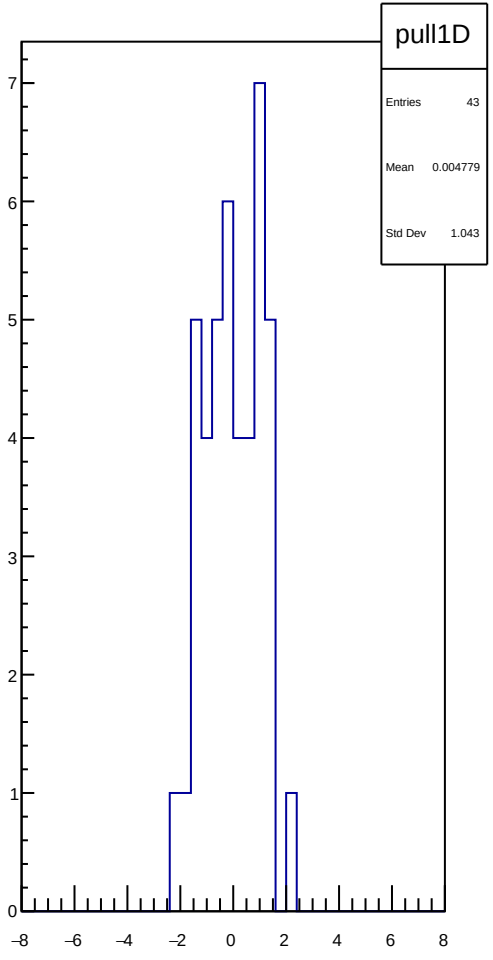

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.32 / 42
p0 452.4 ± 732.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.48
Std Dev 61.82
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.009151
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

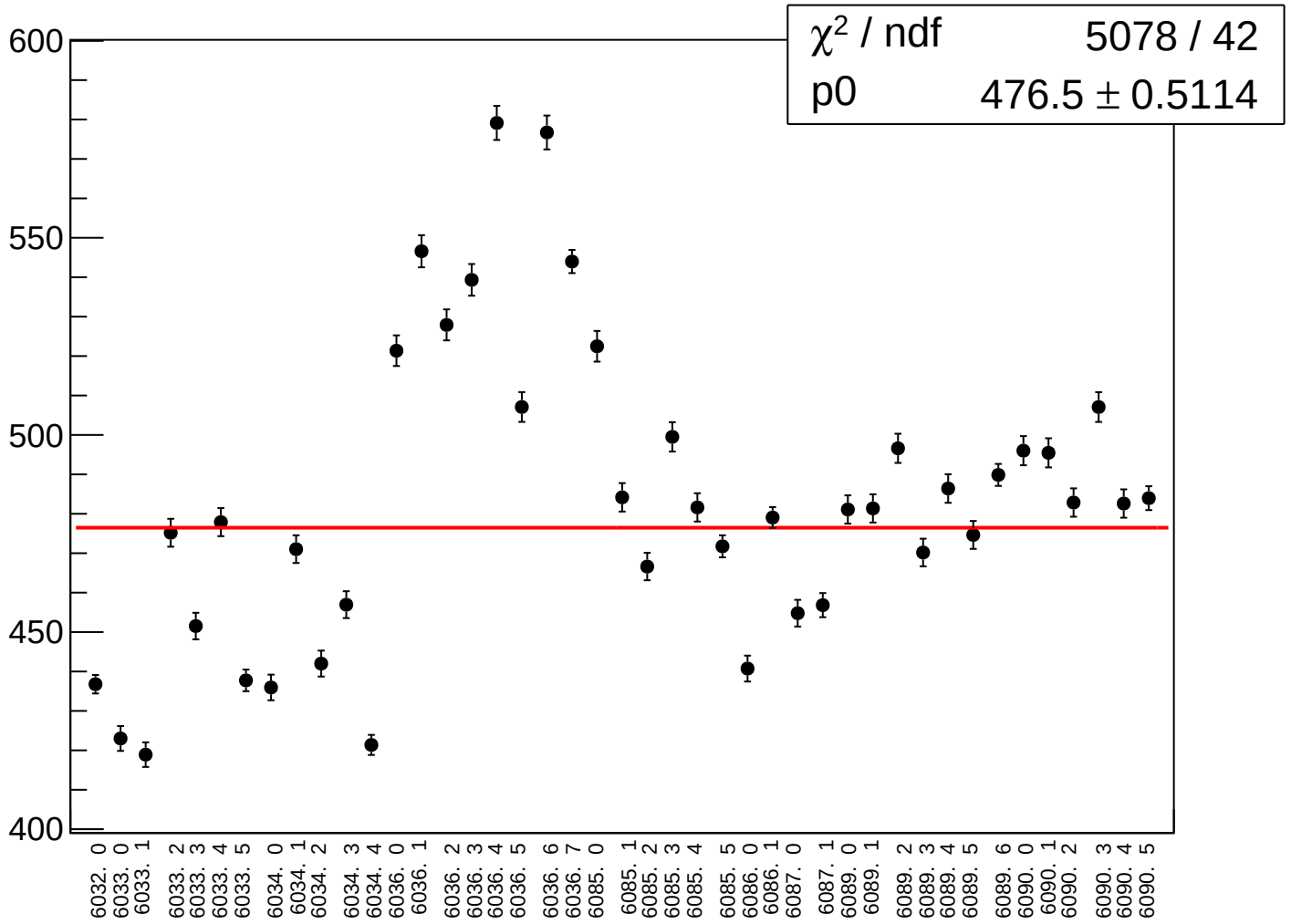

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 5311 / 42
p0 482.7 ± 0.5182
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

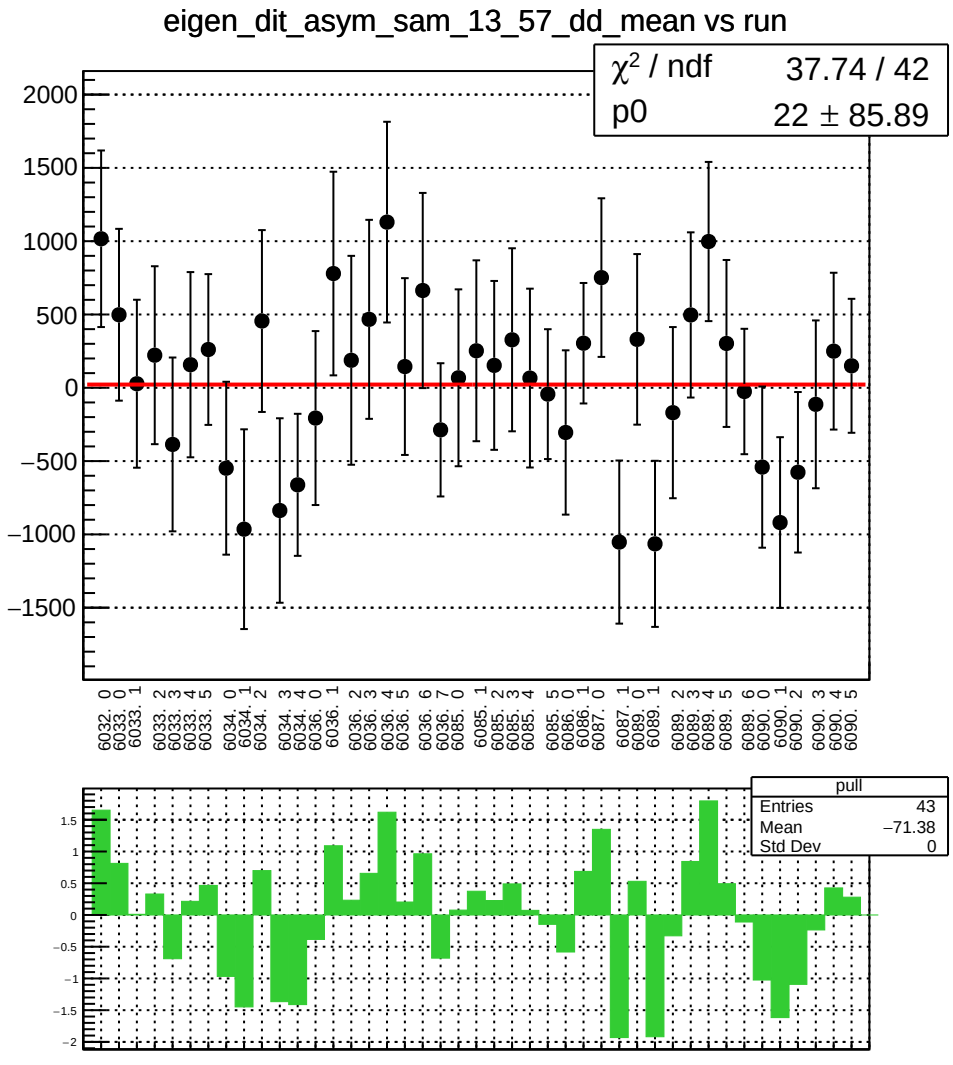

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 37.74 / 42
p0 22 ± 85.89
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −71.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01524
Std Dev 0.9368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

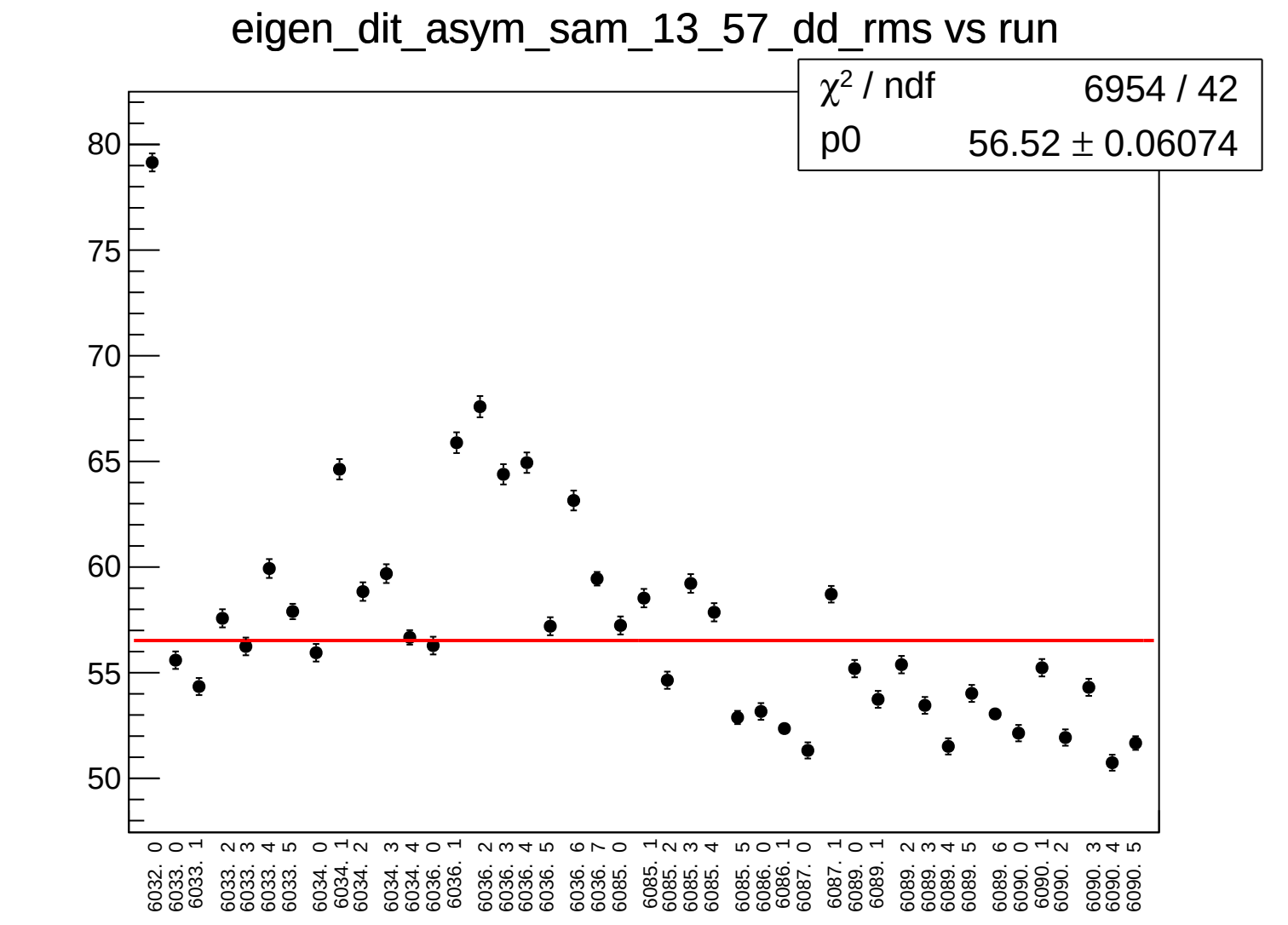

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 6954 / 42
p0 56.52 ± 0.06073
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

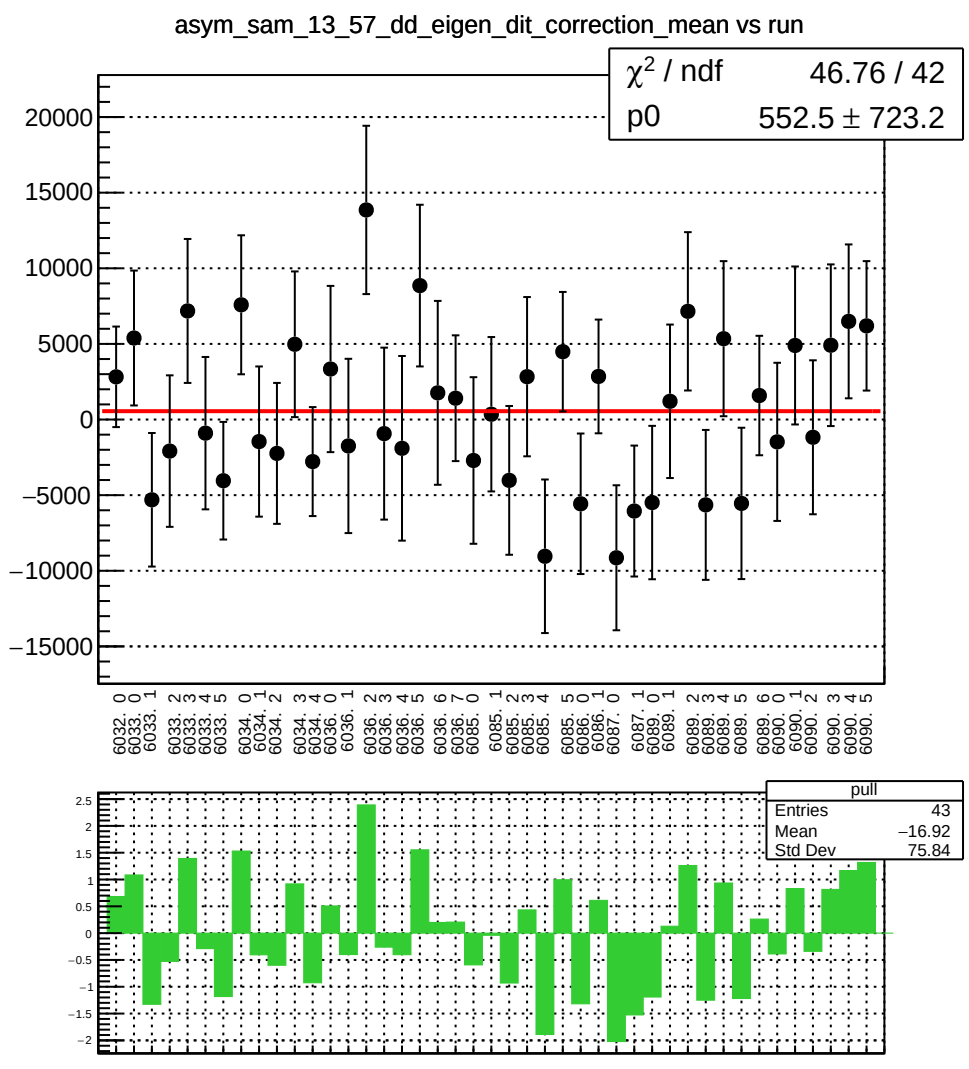

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 46.76 / 42
p0 552.5 ± 723.2
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −16.92
Std Dev 75.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

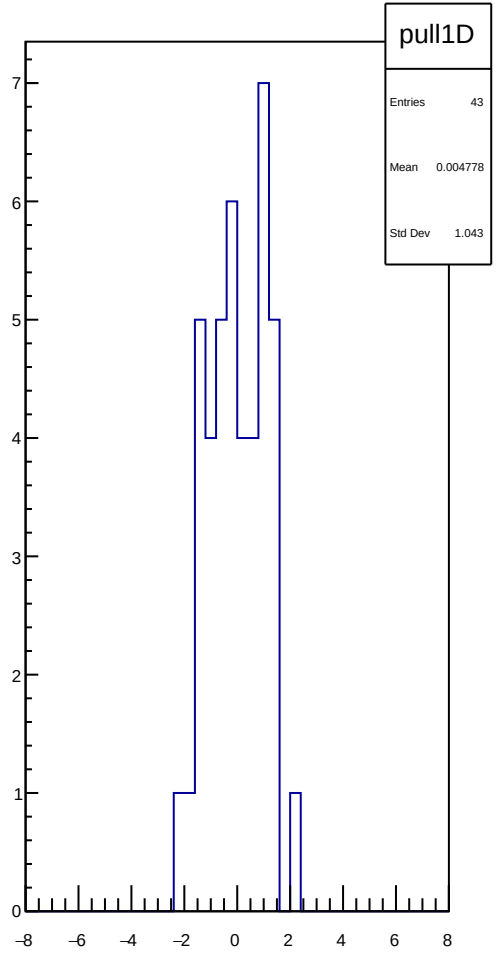

pull1D
Entries 43
Mean 0.004779
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

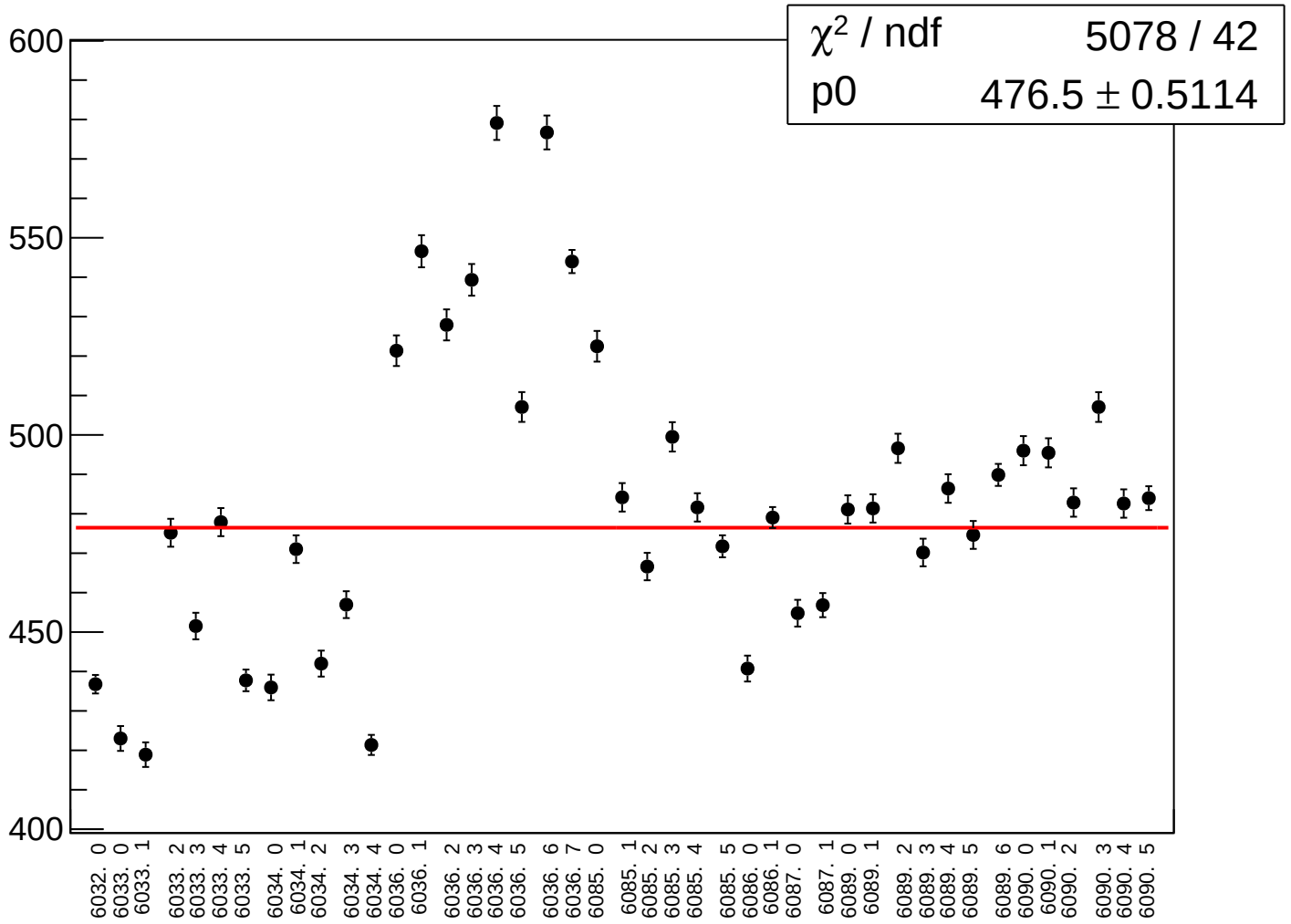

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 5078 / 42
p0 476.5 ± 0.5114
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

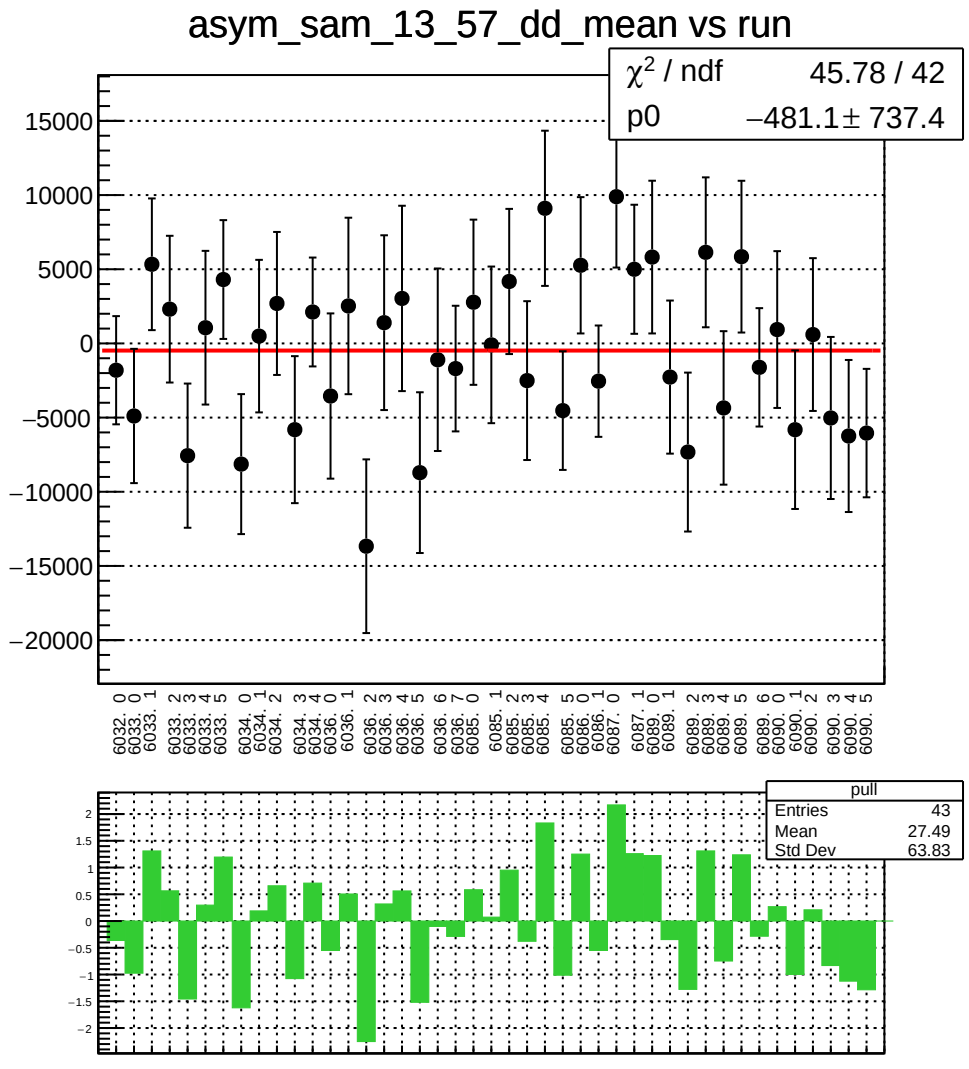

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 37.74 / 42
p0 22 ± 85.89
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −71.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01524
Std Dev 0.9368
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

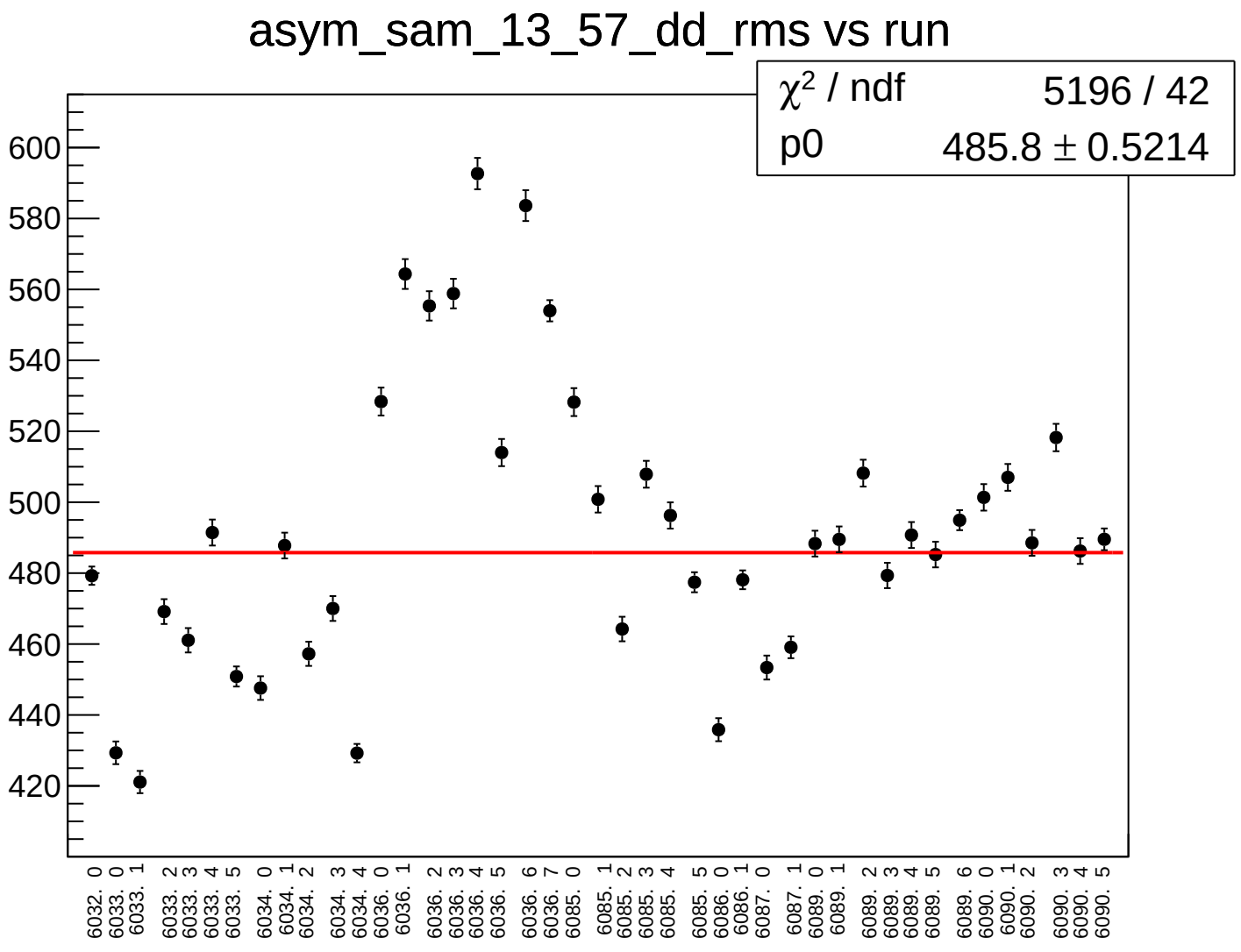

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 6954 / 42
p0 56.52 ± 0.06074
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

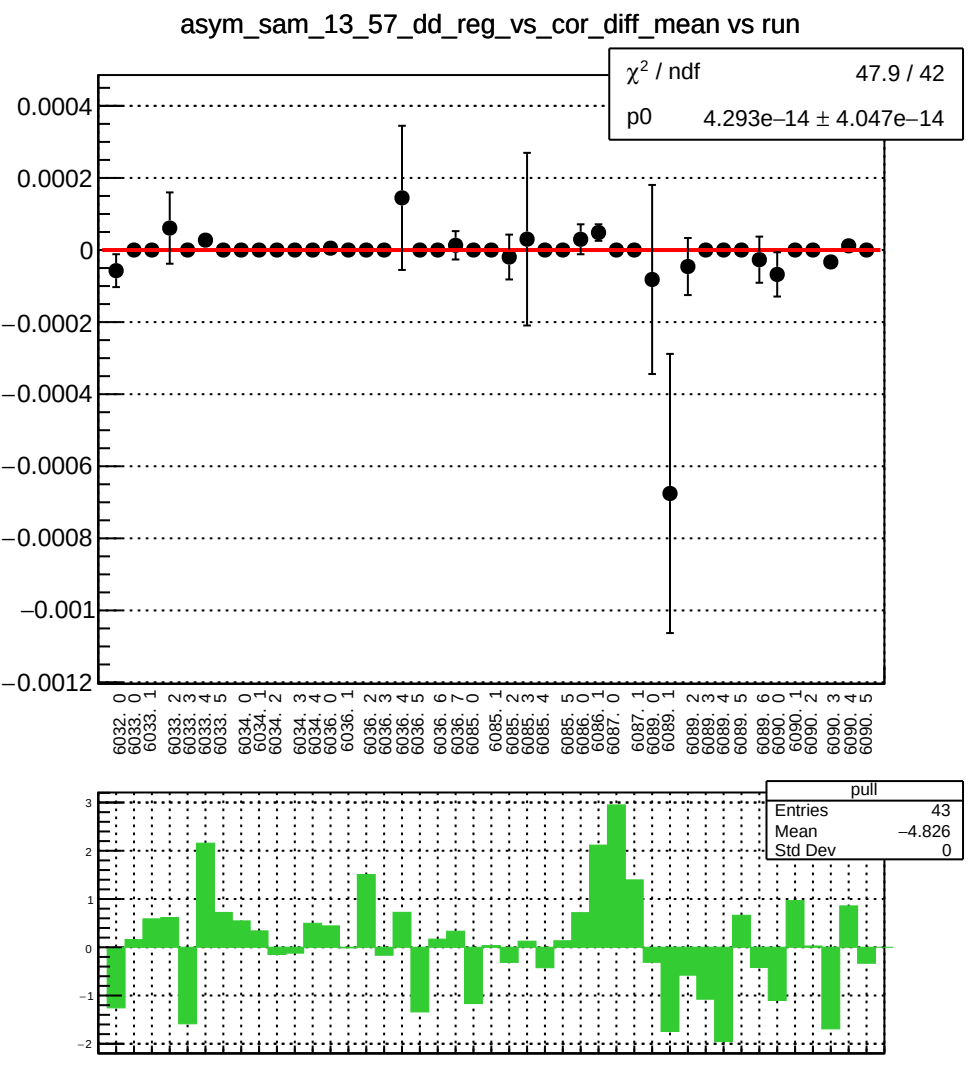

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.76 / 42
p0 552.5 ± 723.2
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −16.92
Std Dev 75.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

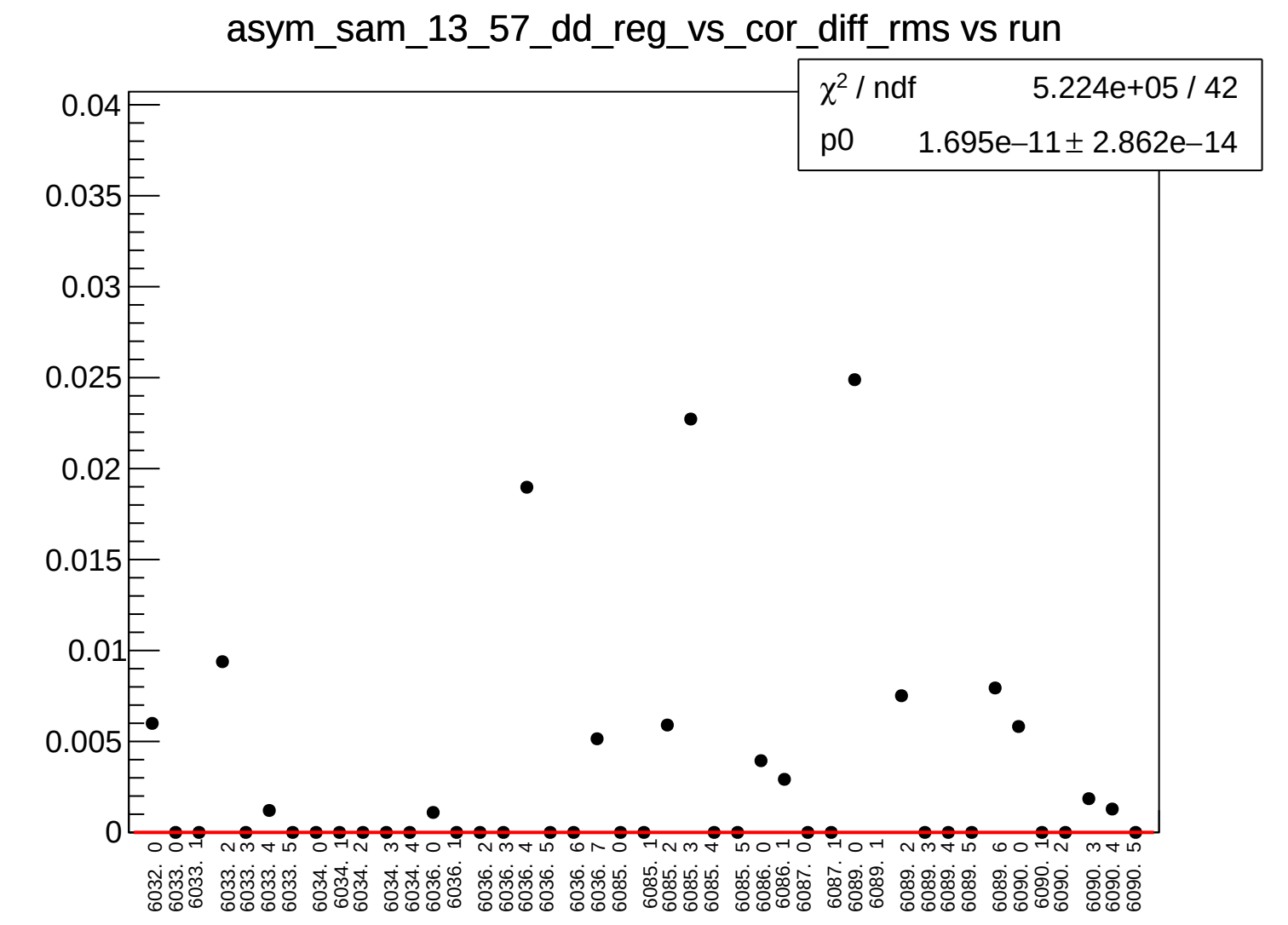

pull1D
Entries 43
Mean 0.004778
Std Dev 1.043
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

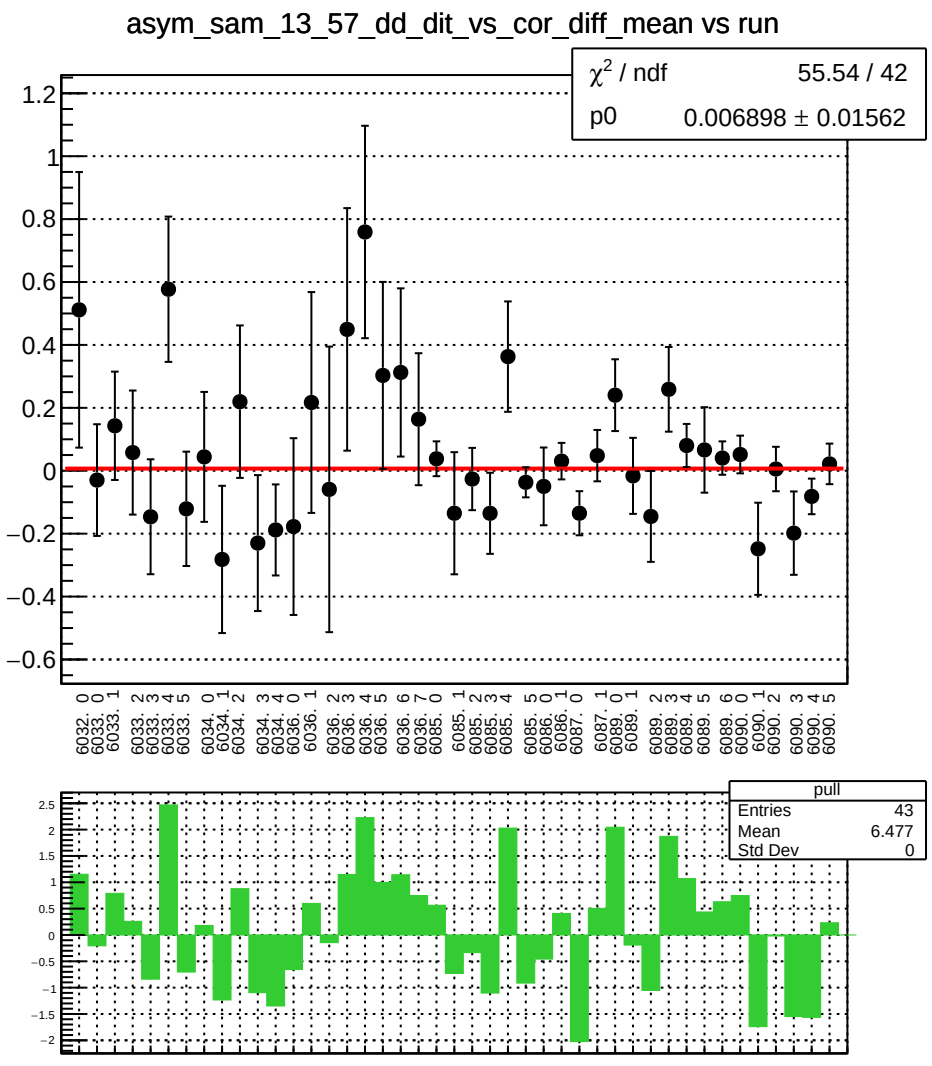

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 5078 / 42
p0 476.5 ± 0.5114
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

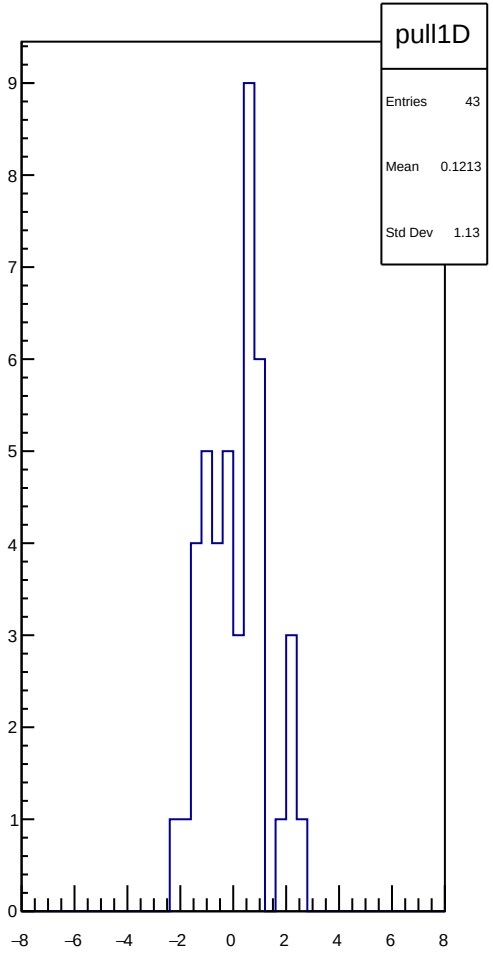

asym_sam_13_57_dd_mean vs run
χ² / ndf 45.78 / 42
p0 −481.1± 737.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 27.49
Std Dev 63.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.008279
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

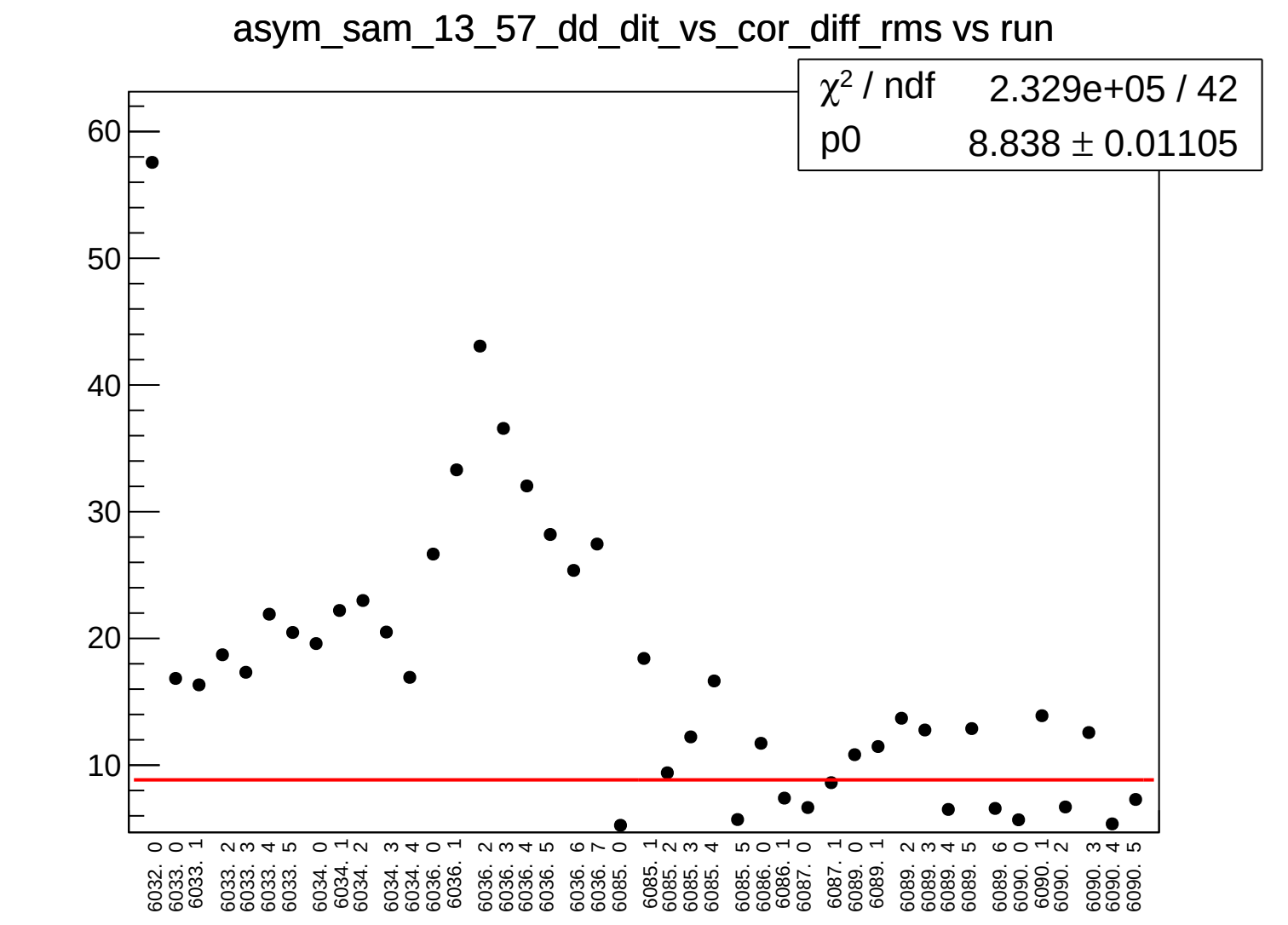

asym_sam_13_57_dd_rms vs run
χ² / ndf 5196 / 42
p0 485.8 ± 0.5214
600
580
560
540
520
500
480
460
440
420
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

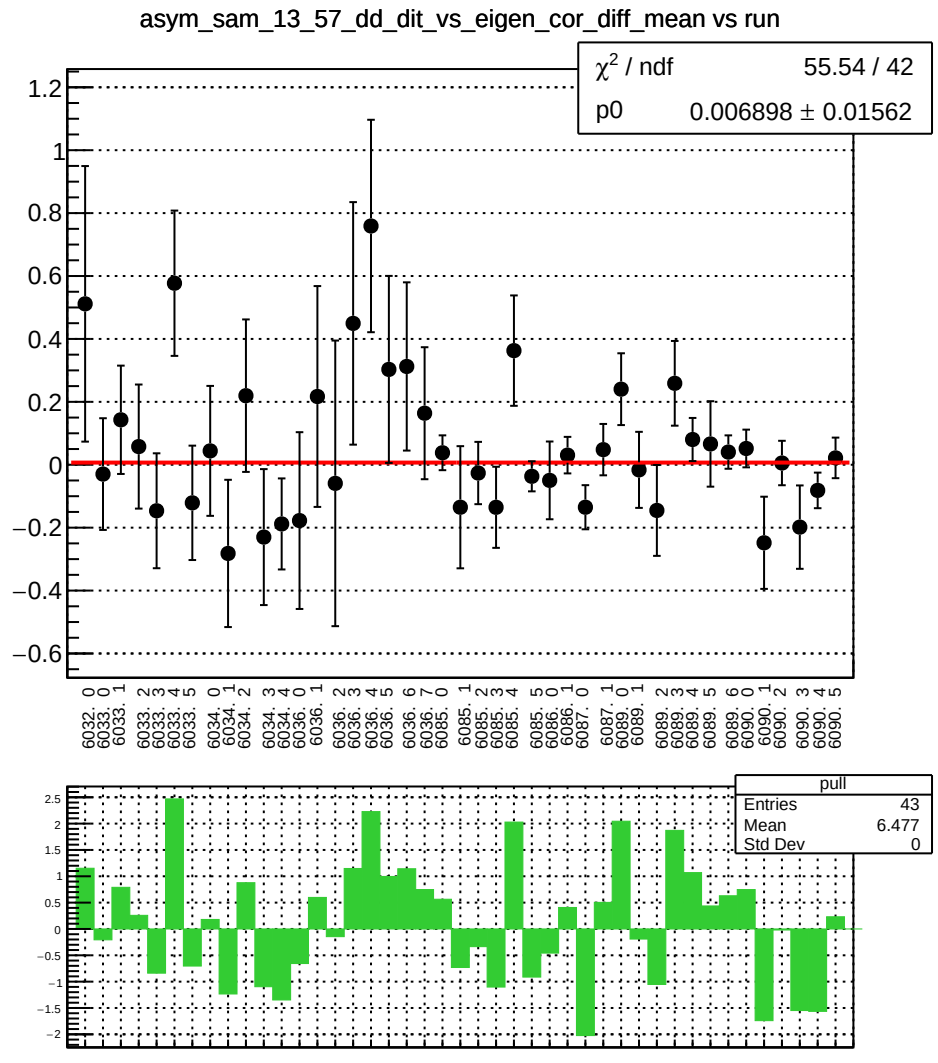

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 47.9 / 42
p0 4.293e−14 ± 4.047e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −4.826
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.07099
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

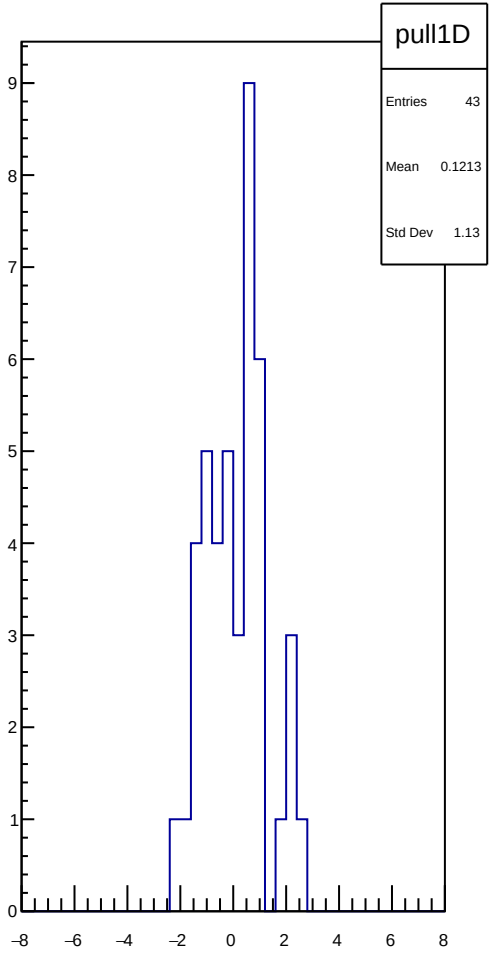

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.224e+05 / 42
p0 1.695e−11 ± 2.862e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

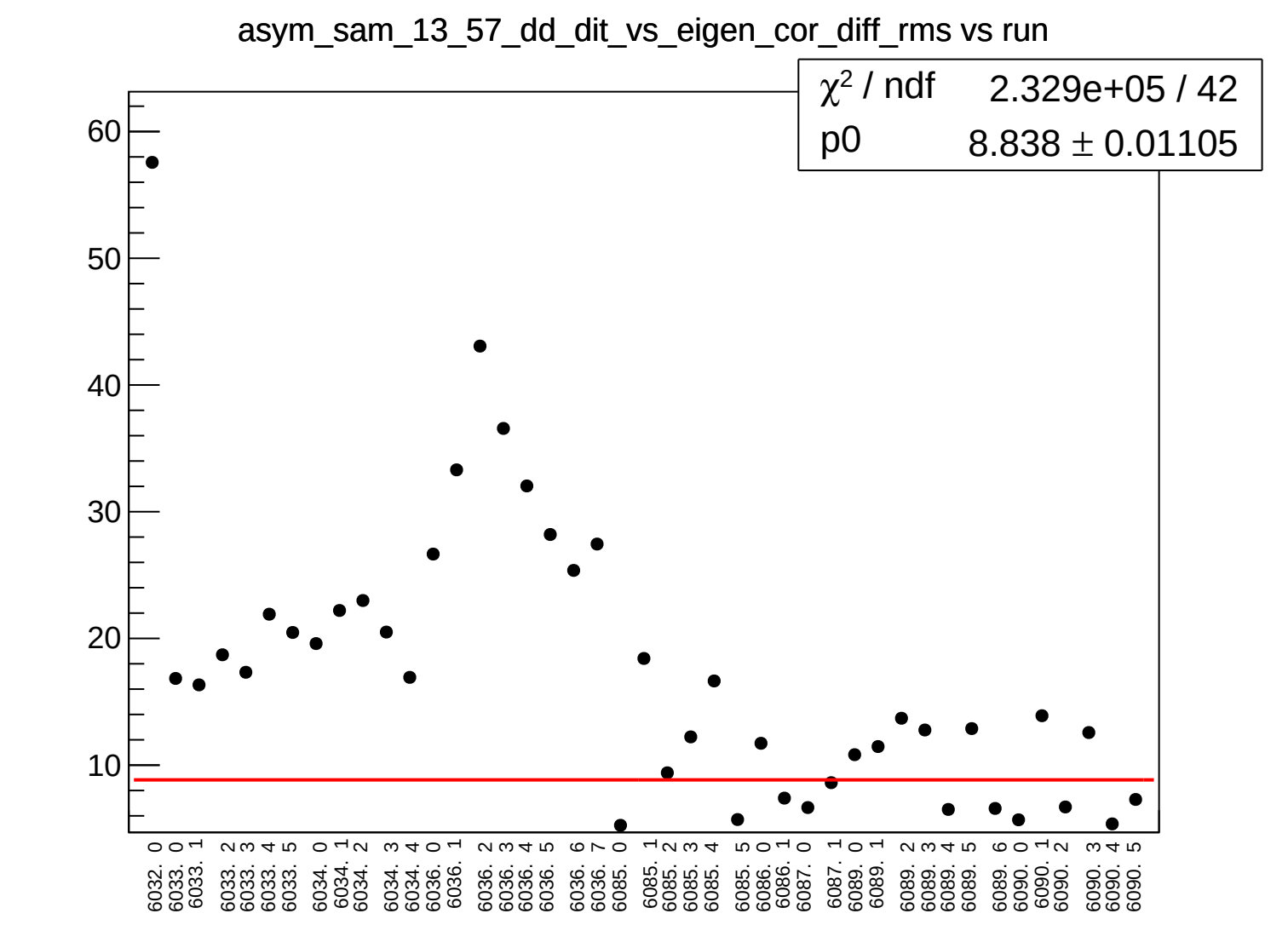

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 55.54 / 42
p0 0.006898 ± 0.01562
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.477
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

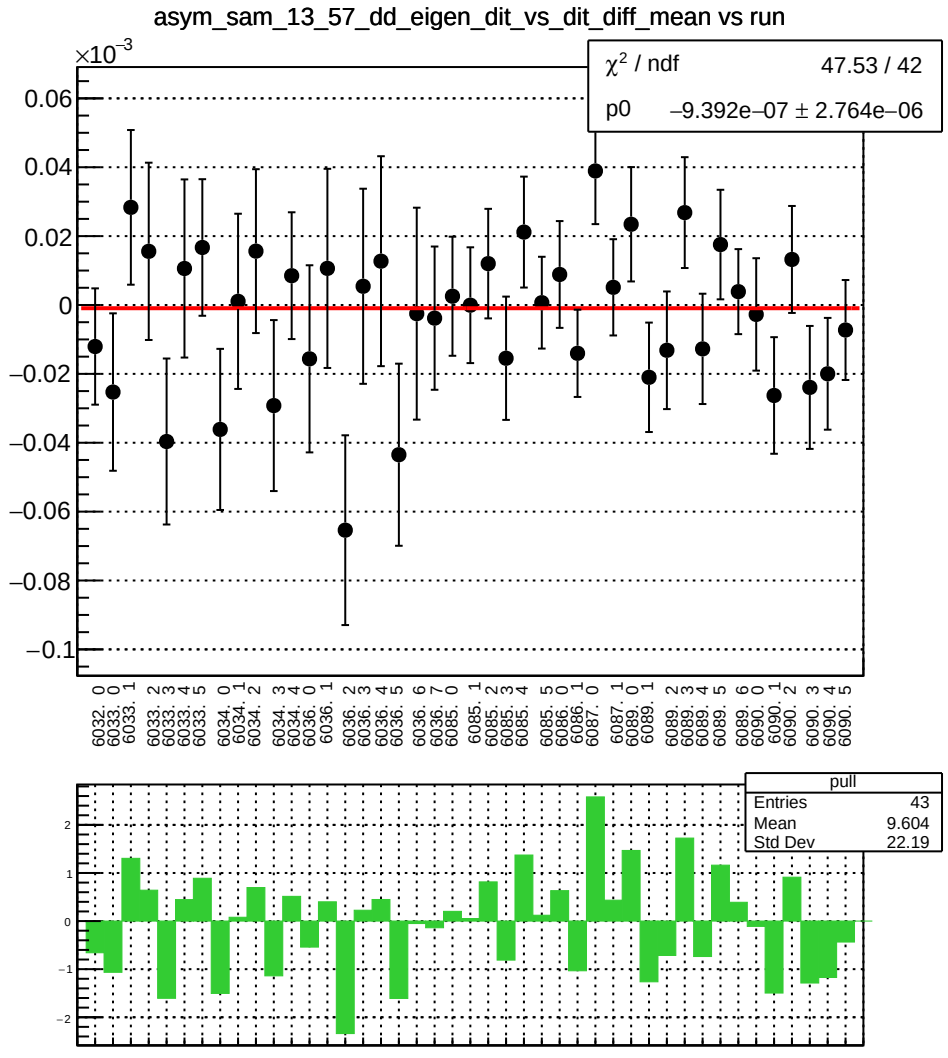

pull1D
Entries 43
Mean 0.1213
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

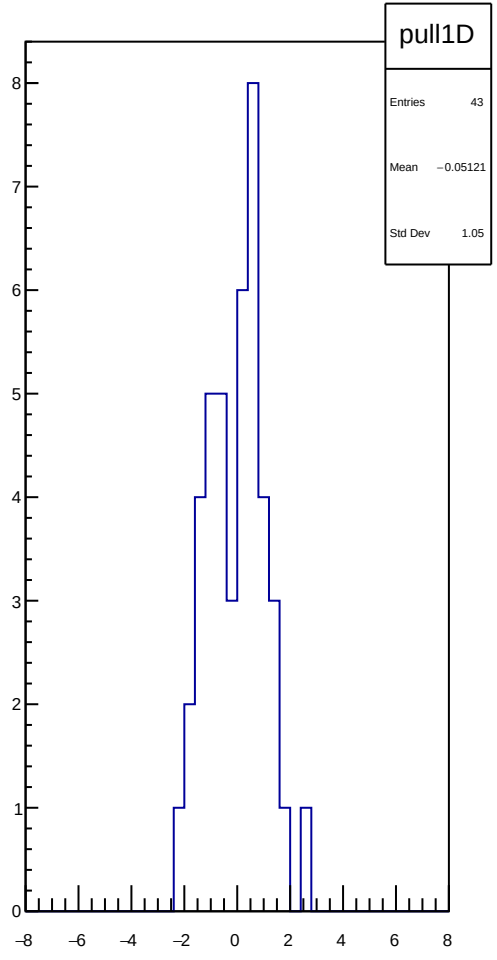

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.329e+05 / 42
p0 8.838 ± 0.01105
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

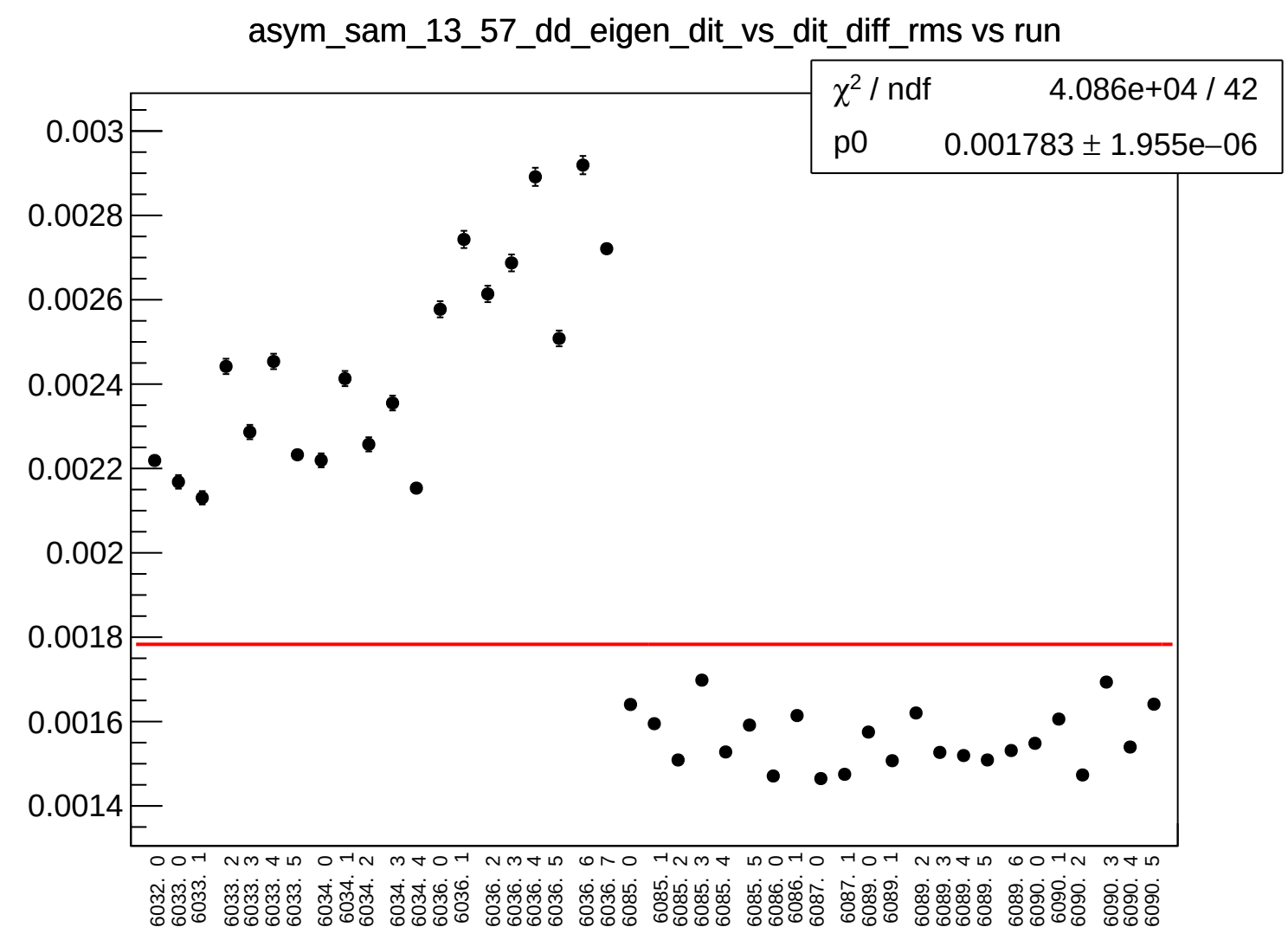

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.54 / 42
p0 0.006898 ± 0.01562
pull
Entries 43
Mean 6.477
Std Dev 0

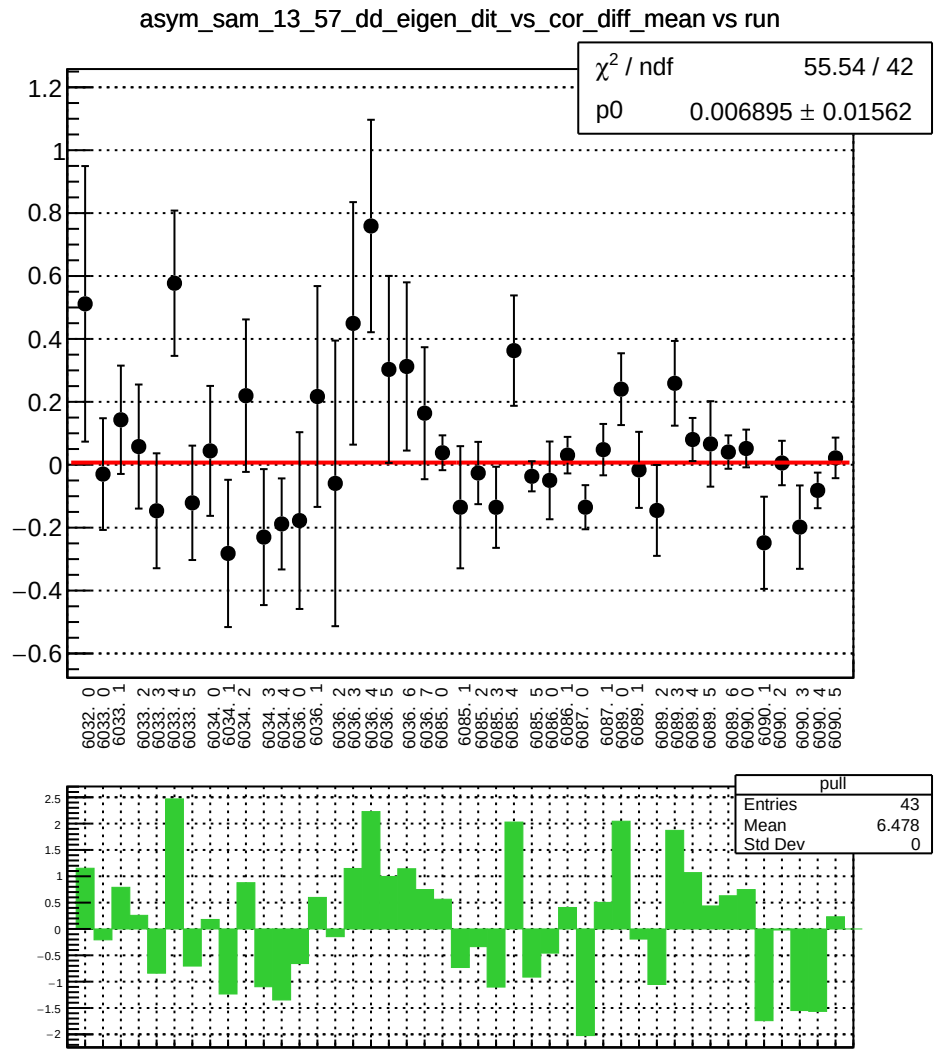

pull1D
Entries 43
Mean 0.1213
Std Dev 1.13

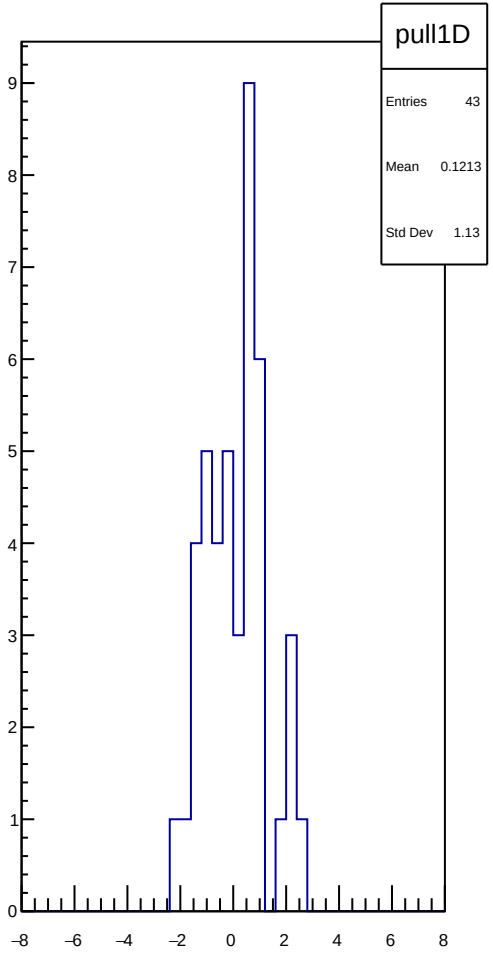

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.329e+05 / 42
p0 8.838 ± 0.01105
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

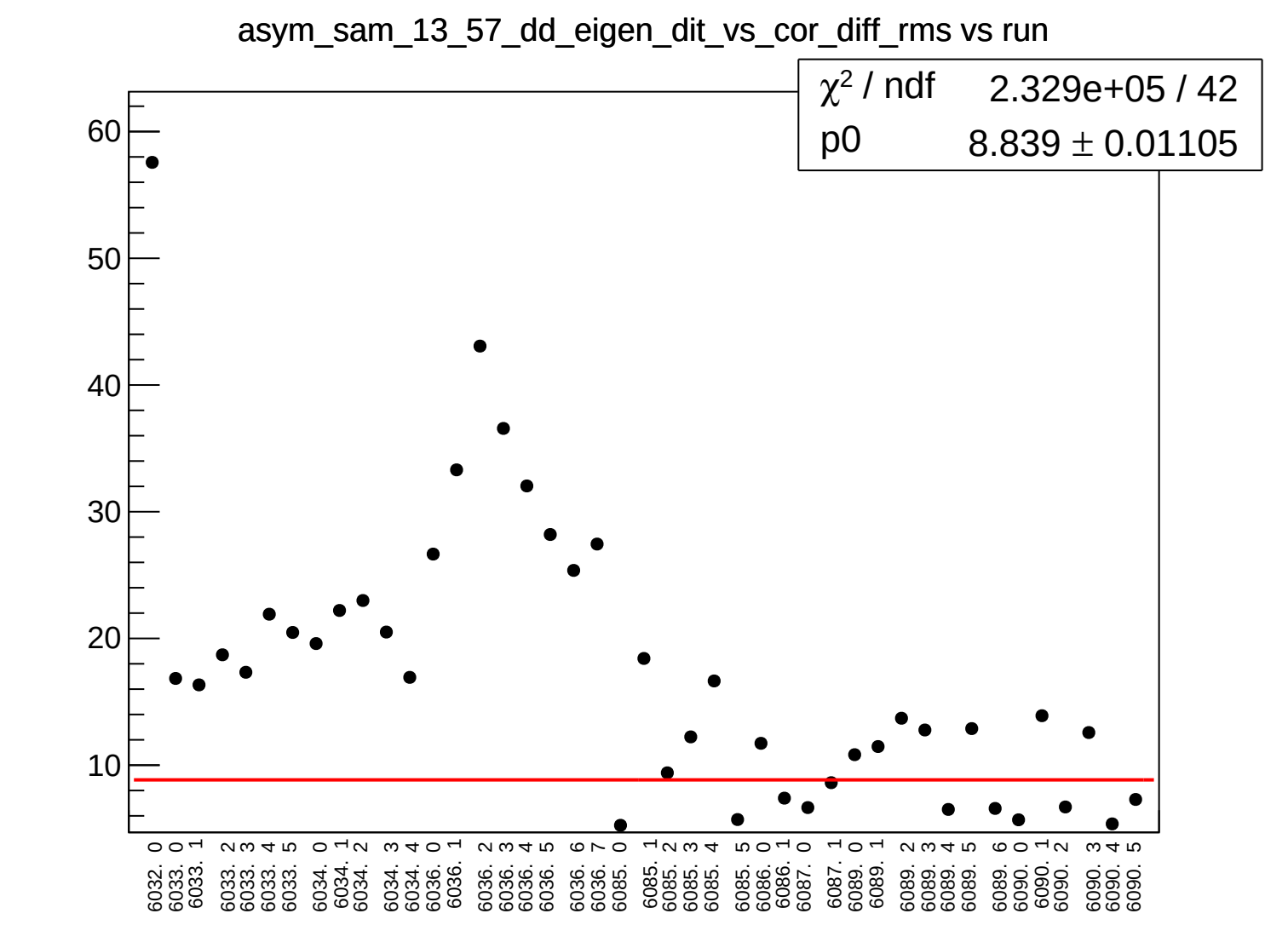

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 47.53 / 42
p0 −9.392e−07 ± 2.764e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.604
Std Dev 22.19
2
1
0
−1
−2

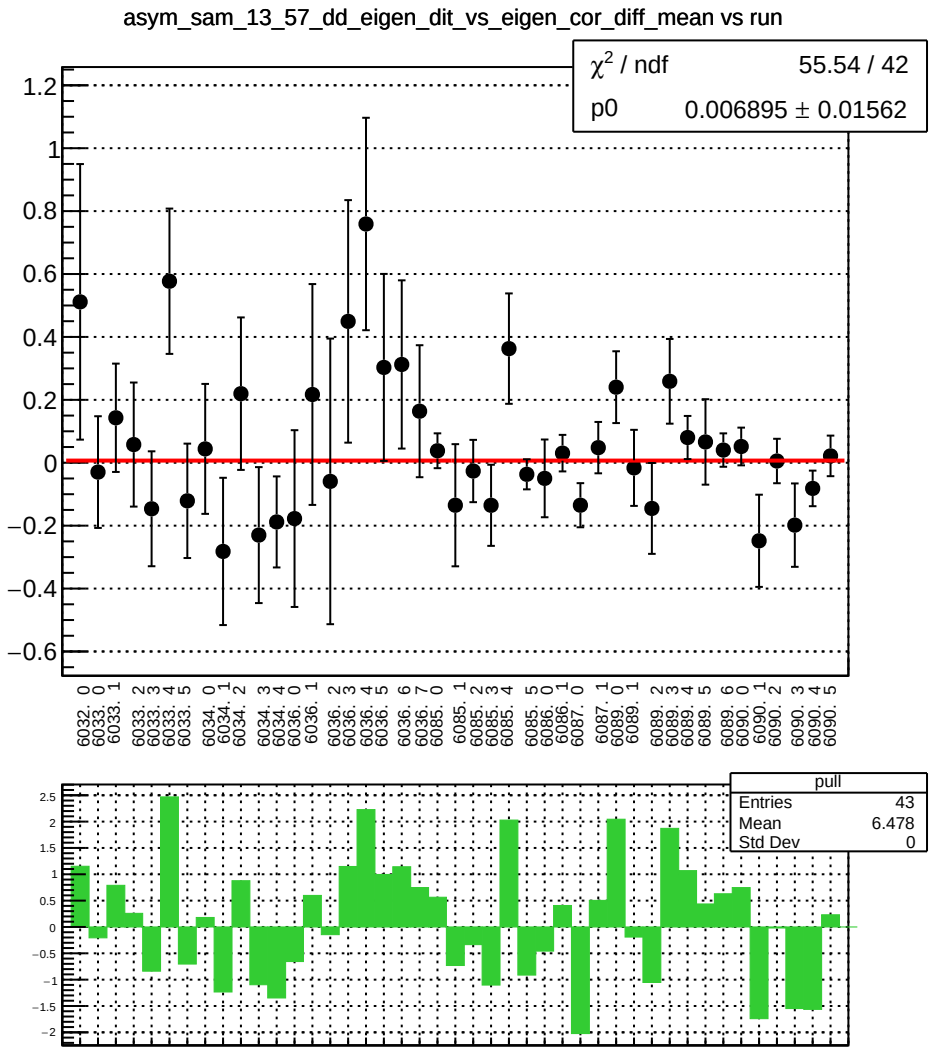

pull1D
Entries 43
Mean −0.05121
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

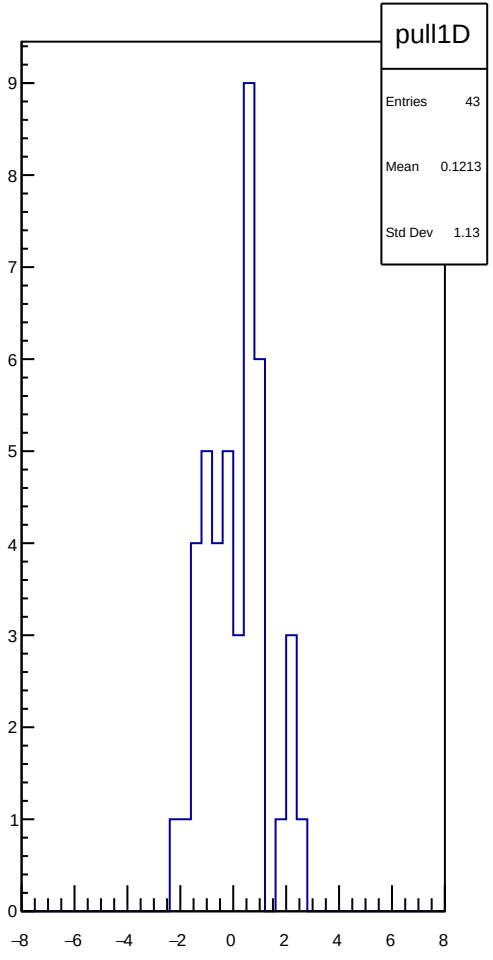

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.086e+04 / 42
p0 0.001783 ± 1.955e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

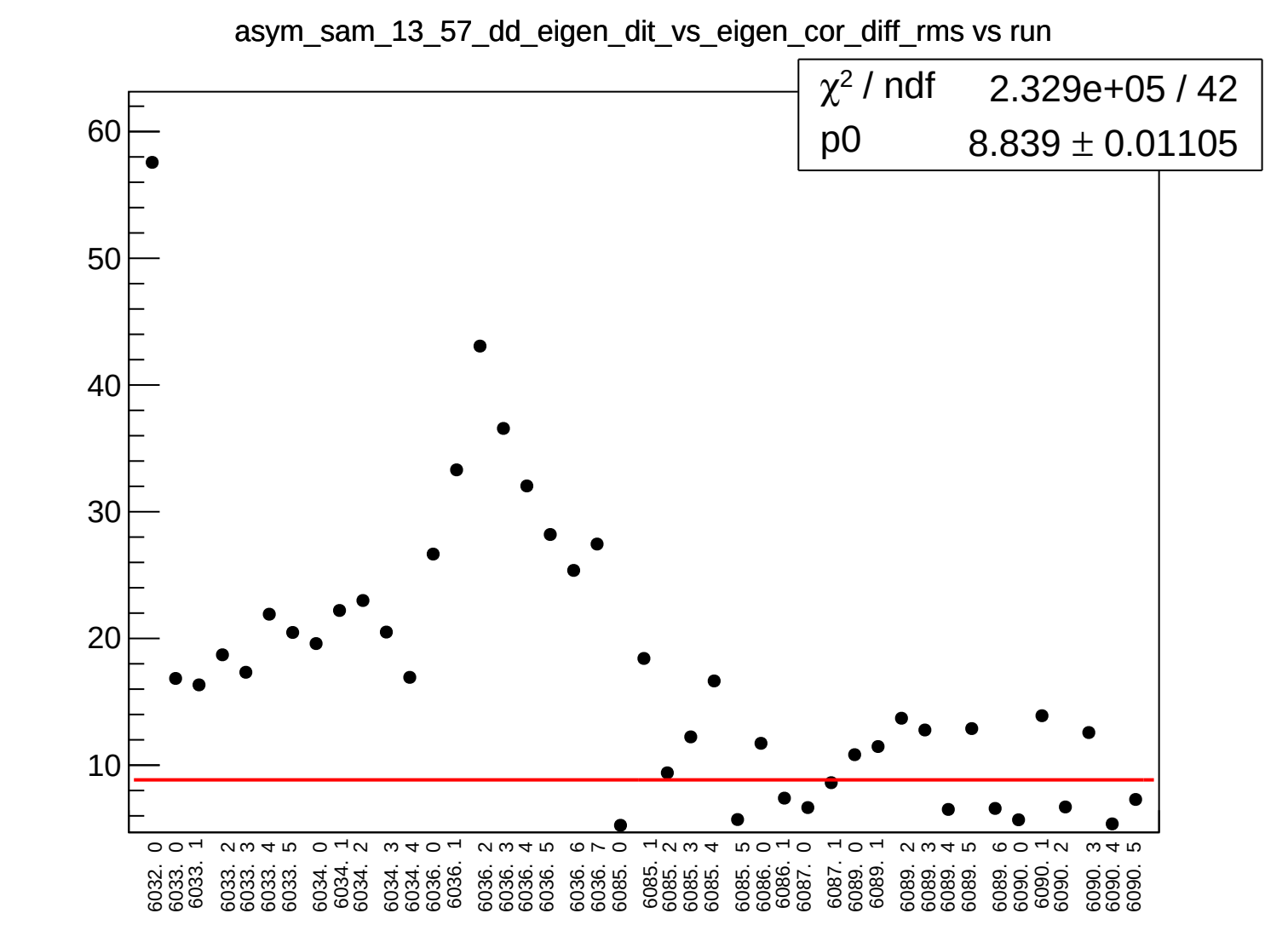

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 55.54 / 42
p0 0.006895 ± 0.01562
pull
Entries 43
Mean 6.478
Std Dev 0

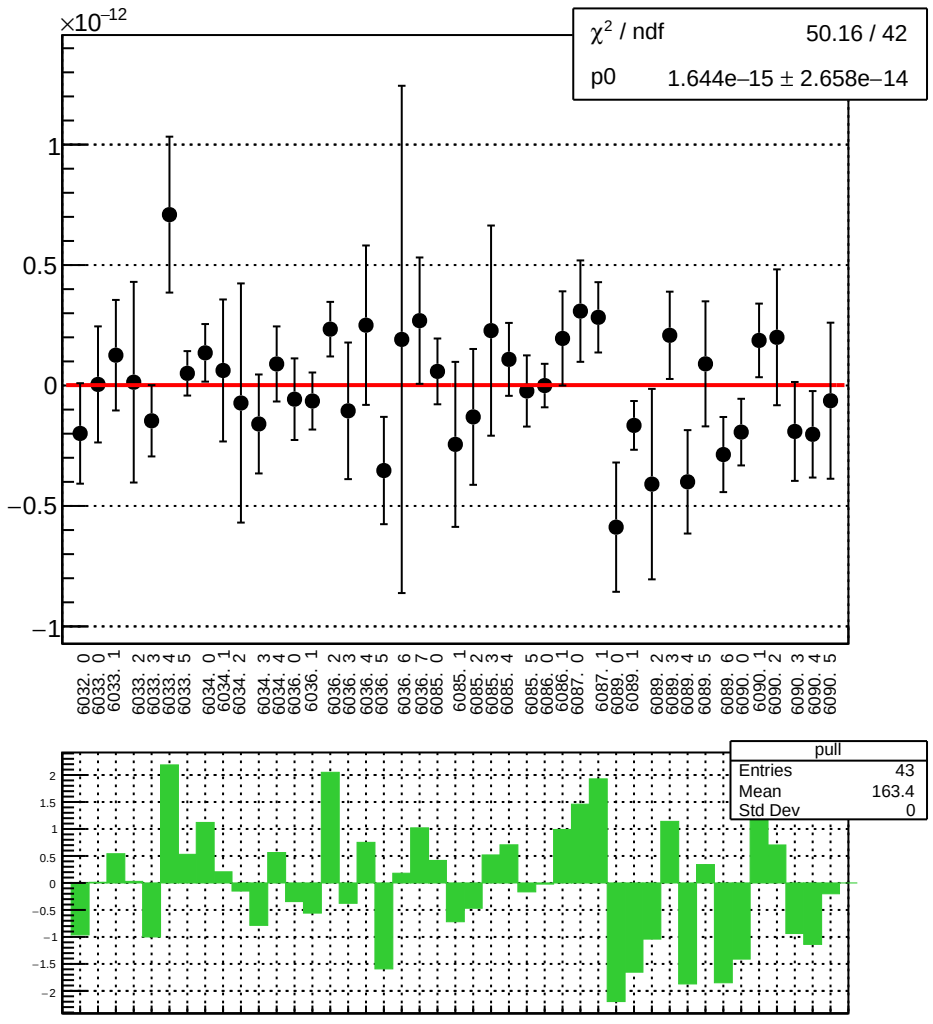

pull1D
Entries 43
Mean 0.1213
Std Dev 1.13

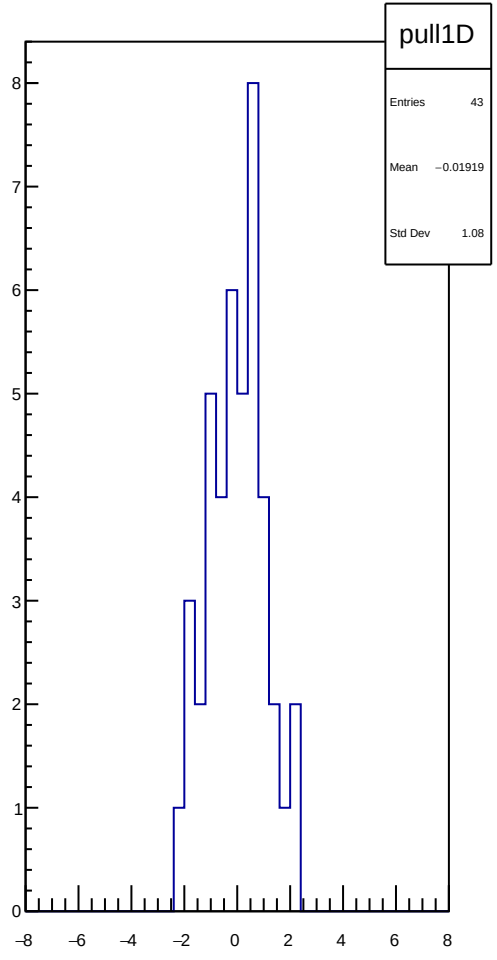

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.329e+05 / 42
p0 8.839 ± 0.01105
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

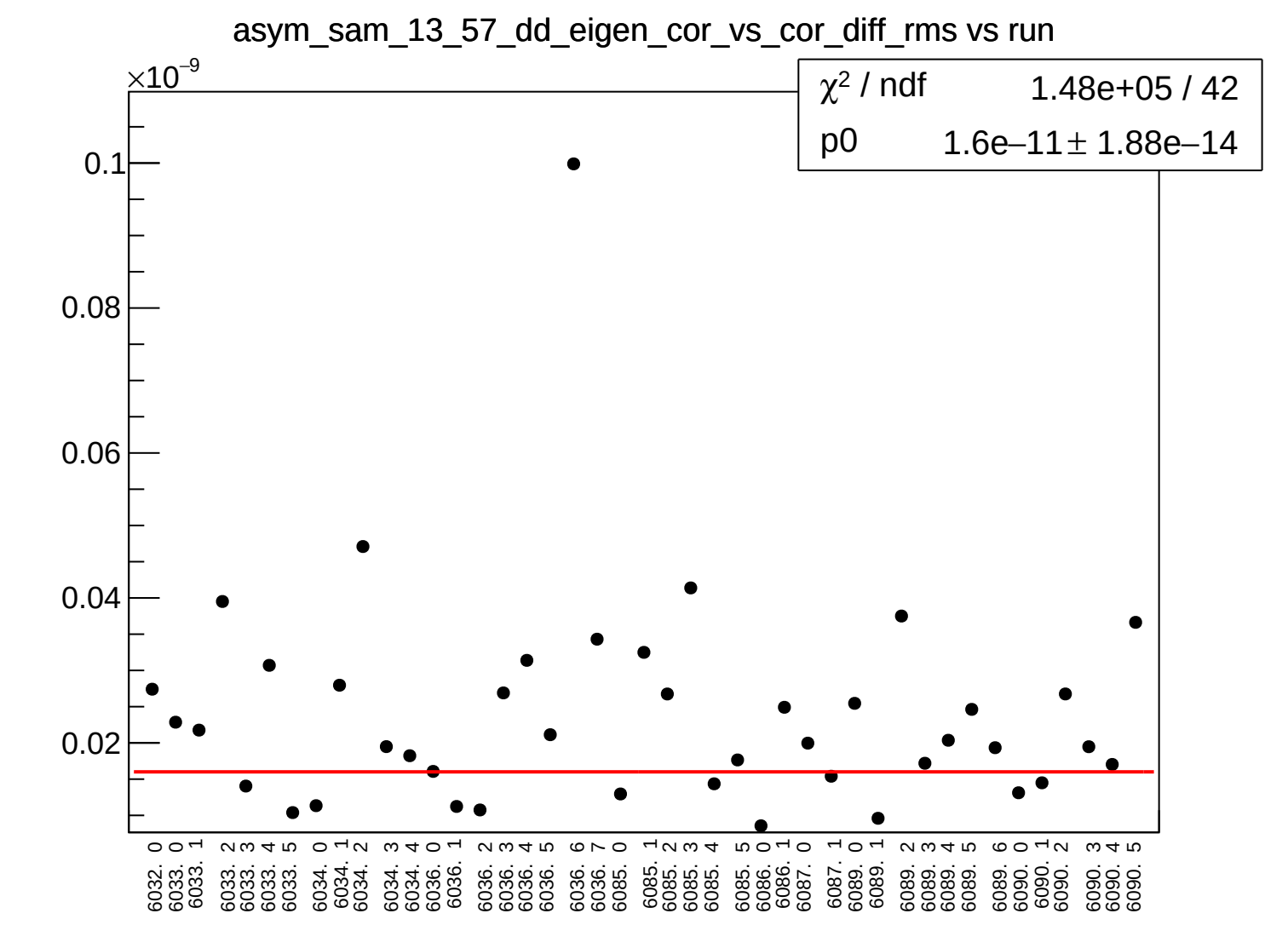

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 55.54 / 42
p0 0.006895 ± 0.01562
pull
Entries 43
Mean 6.478
Std Dev 0

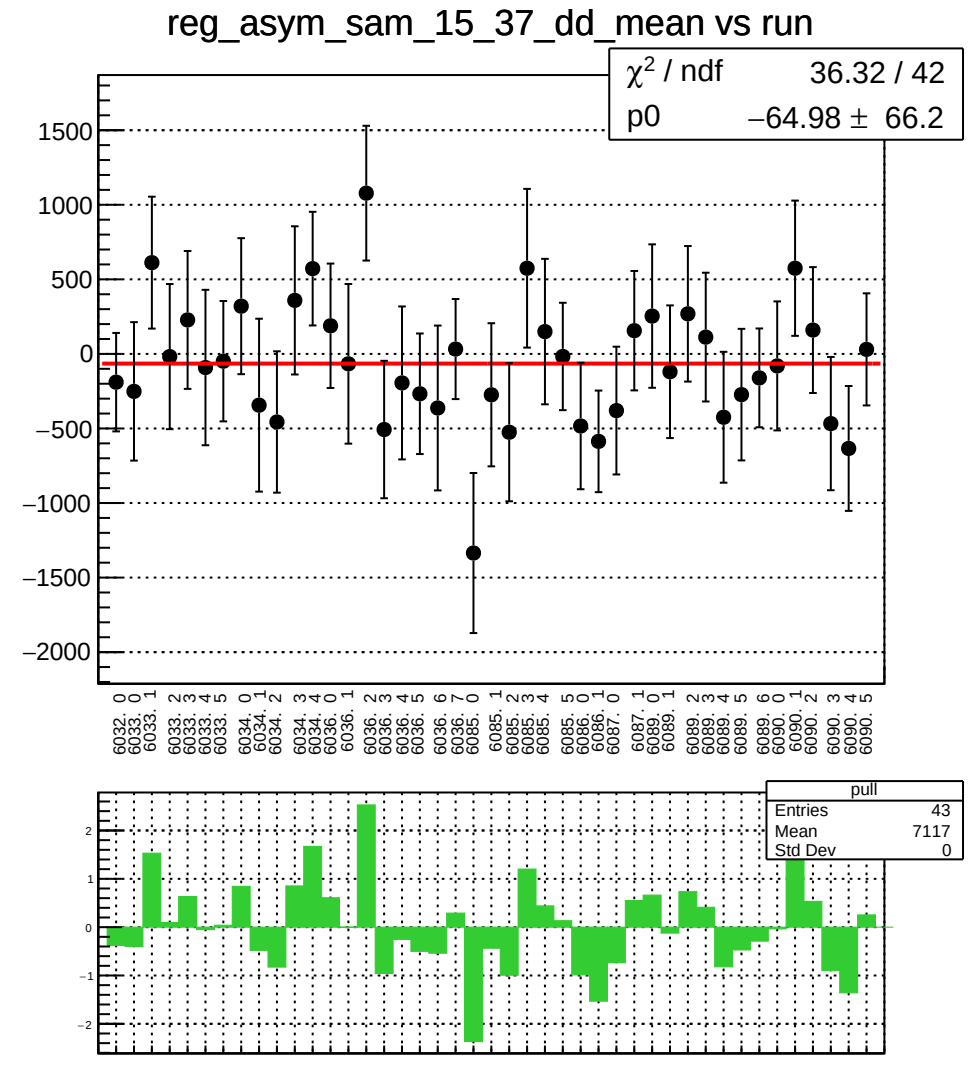

pull1D
Entries 43
Mean 0.1213
Std Dev 1.13

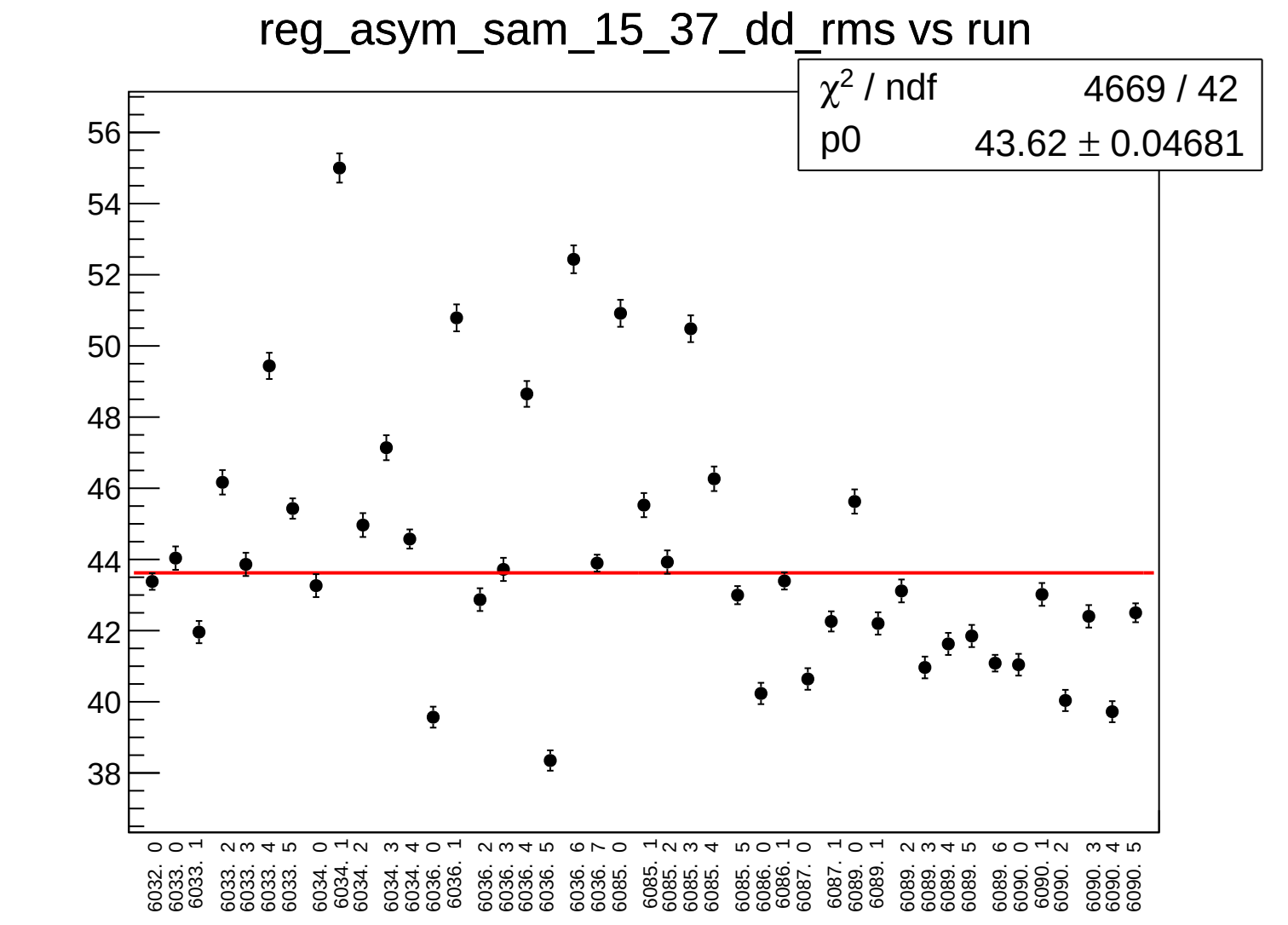

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.329e+05 / 42
p0 8.839 ± 0.01105
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

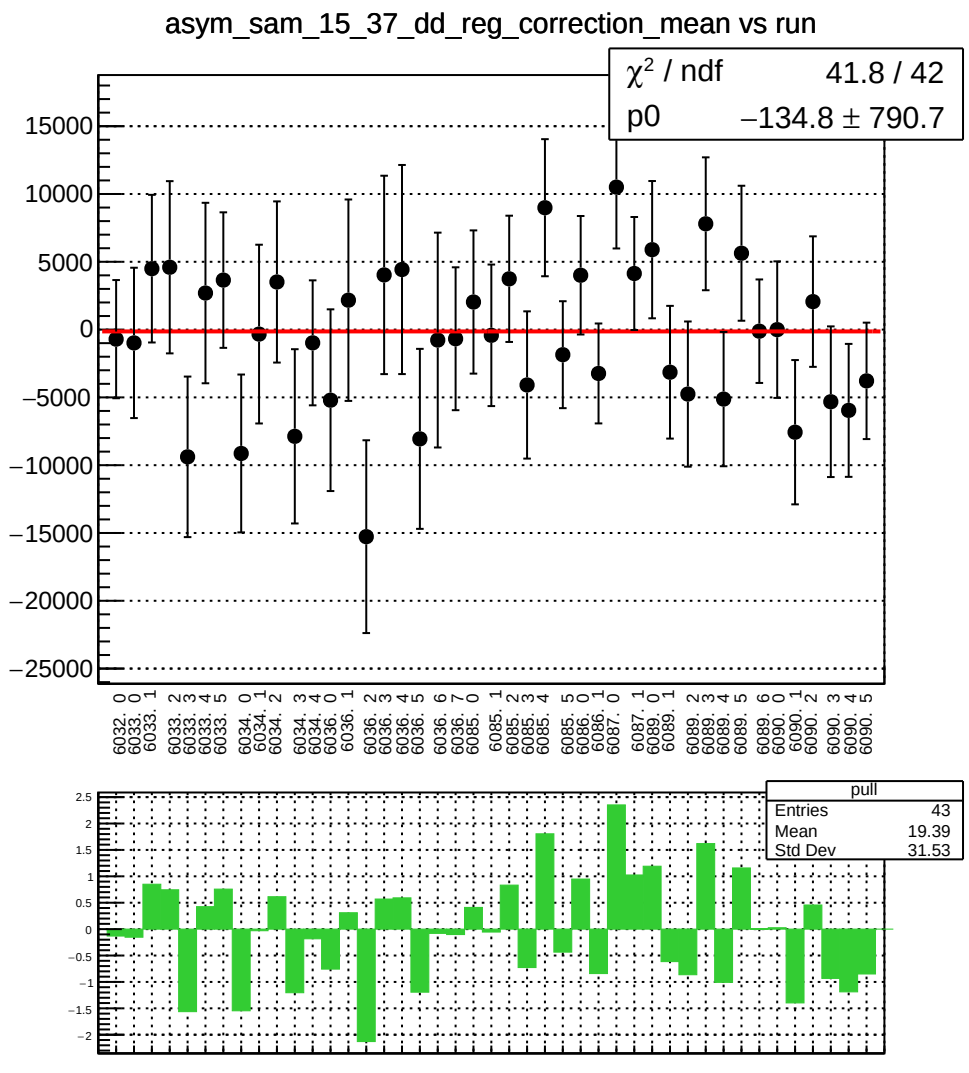

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.16 / 42
p0 1.644e−15 ± 2.658e−14
pull
Entries 43
Mean 163.4
Std Dev 0

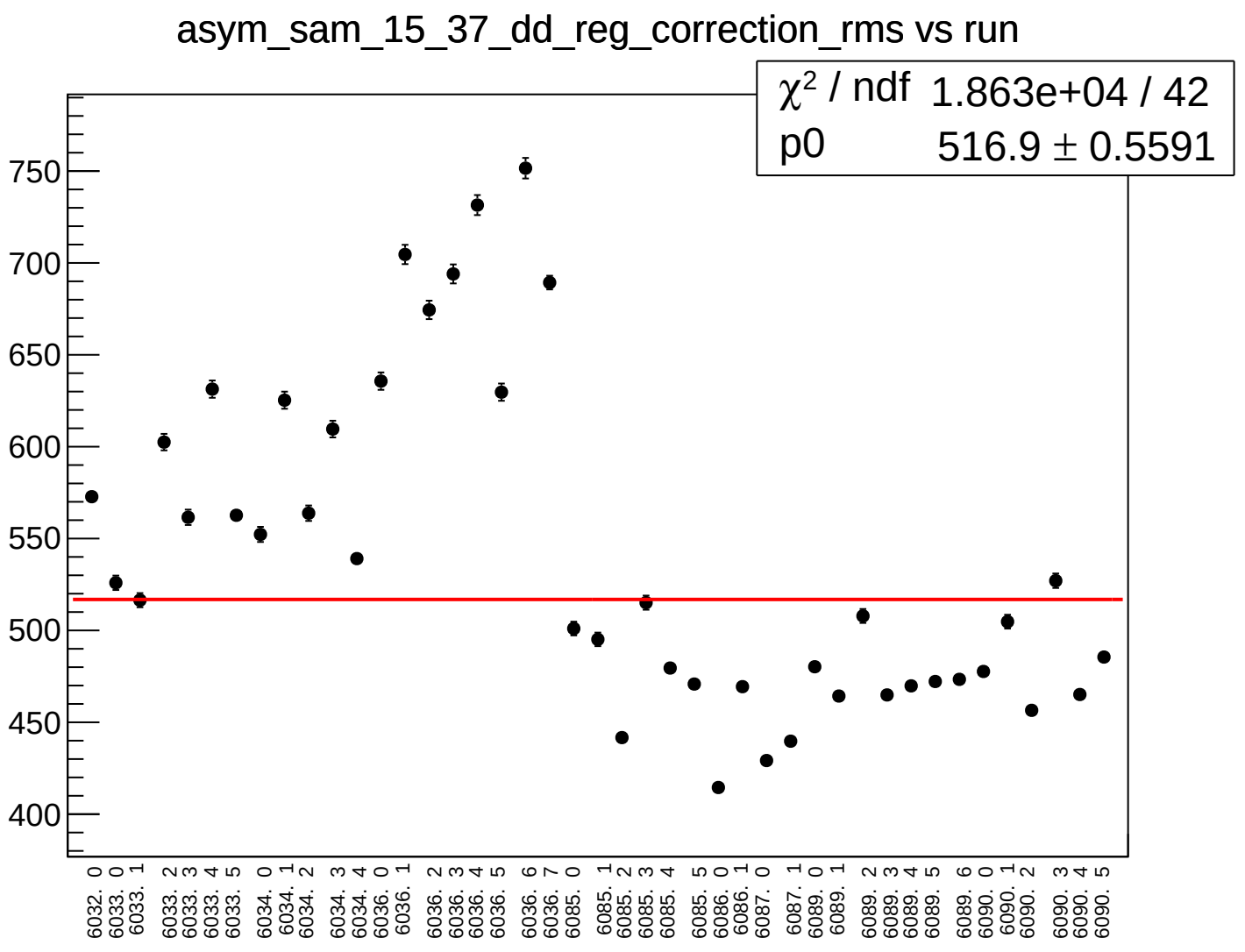

pull1D
Entries 43
Mean −0.01919
Std Dev 1.08


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.48e+05 / 42
p0 1.6e−11 ± 1.88e−14
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 36.32 / 42
p0 −64.98 ± 66.2
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7117
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0002599
Std Dev 0.919
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 4669 / 42
p0 43.62 ± 0.04681
56
54
52
50
48
46
44
42
40
38
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 41.8 / 42
p0 −134.8 ± 790.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.39
Std Dev 31.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03003
Std Dev 0.9855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.863e+04 / 42
p0 516.9 ± 0.5591
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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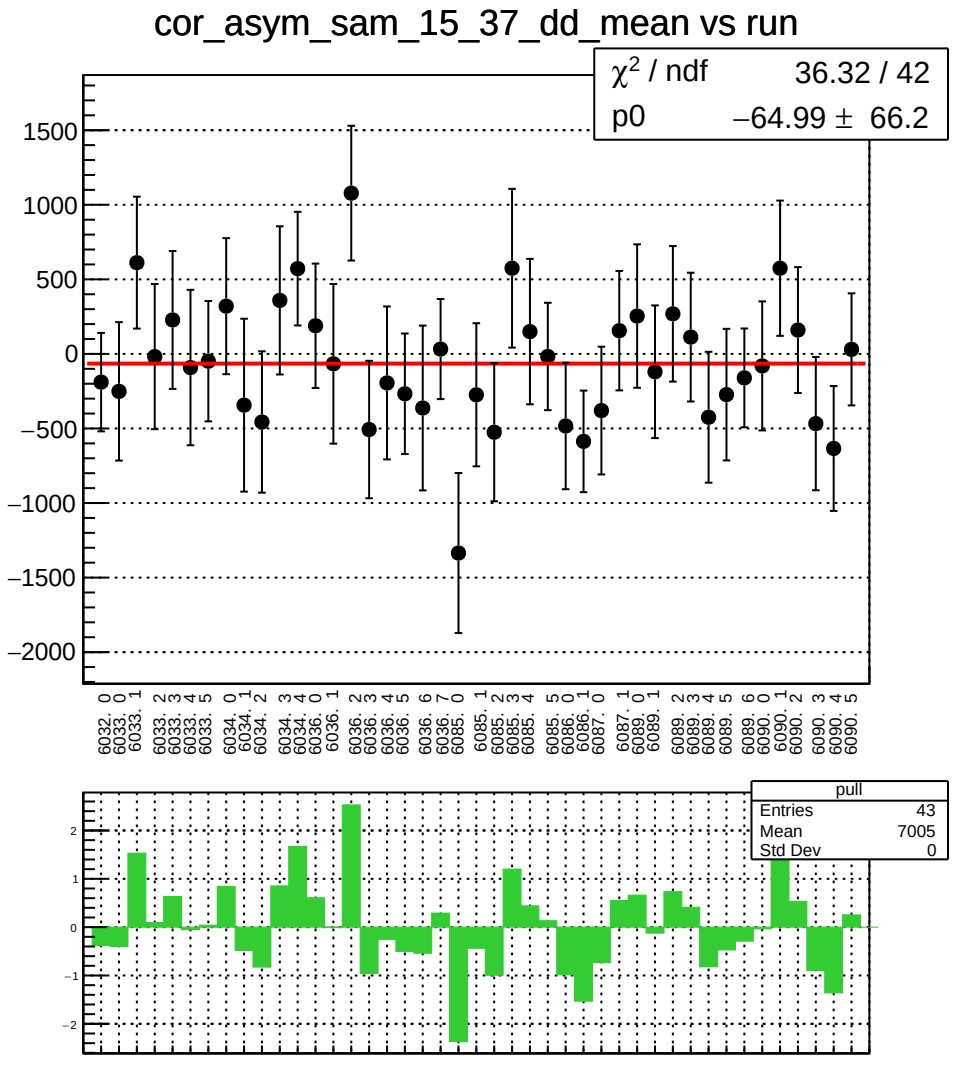
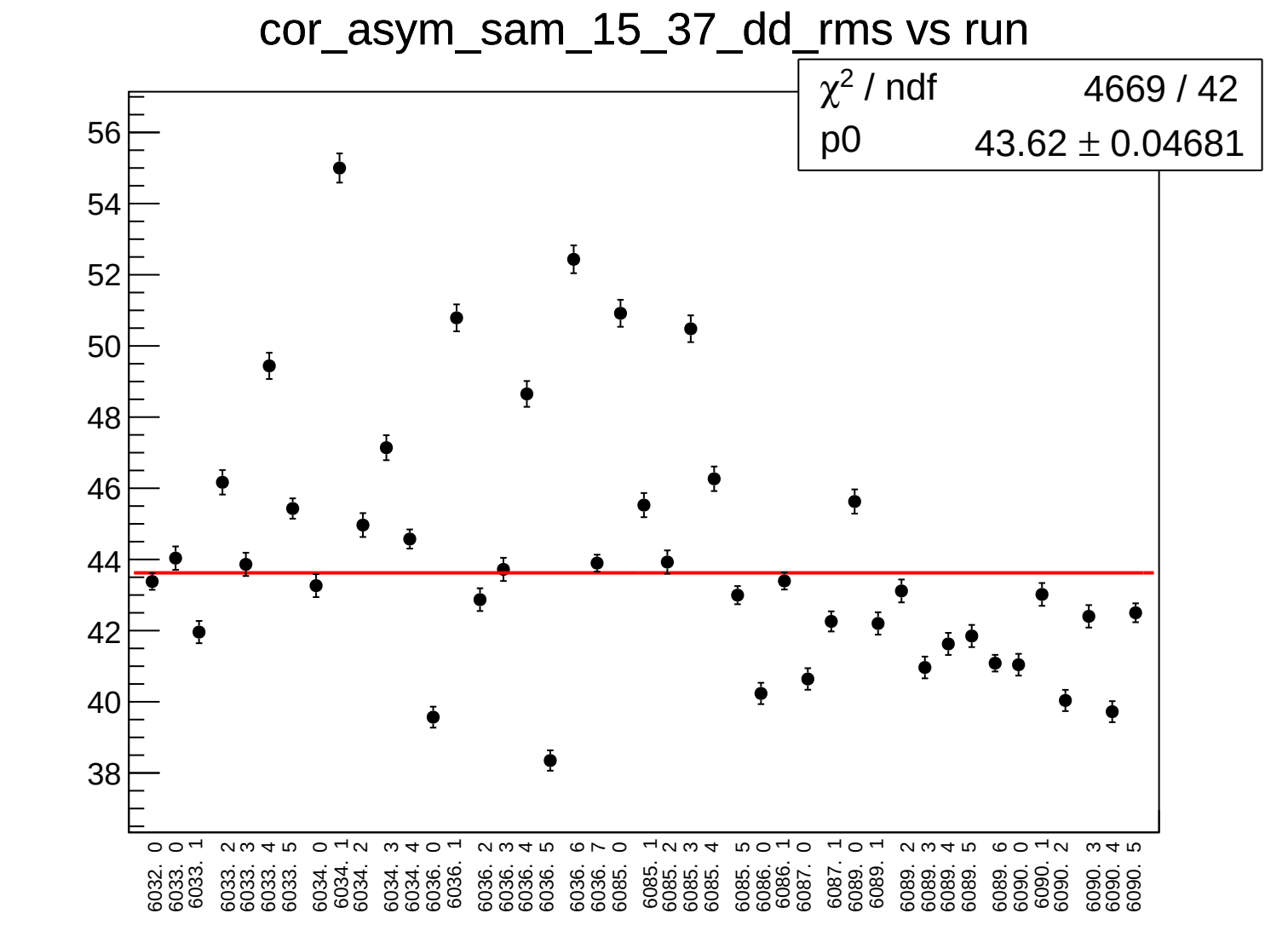
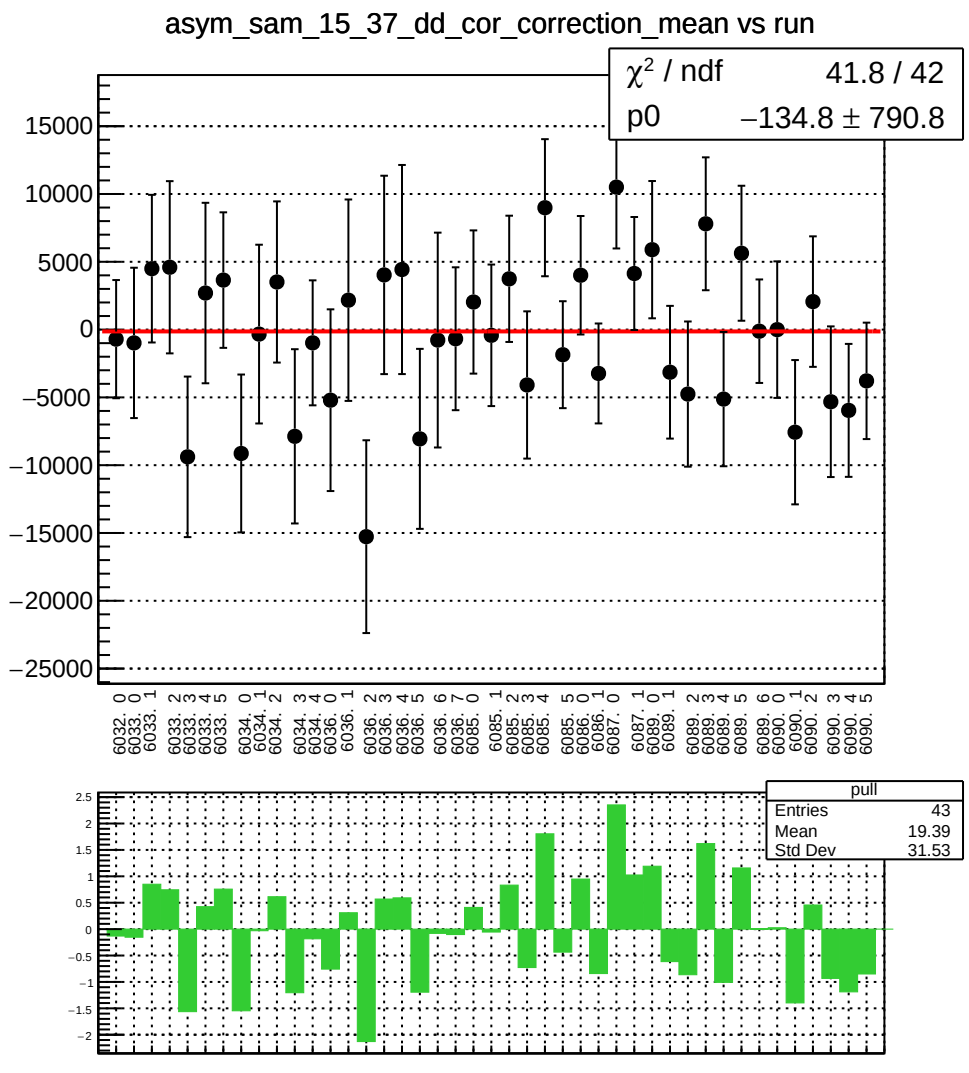
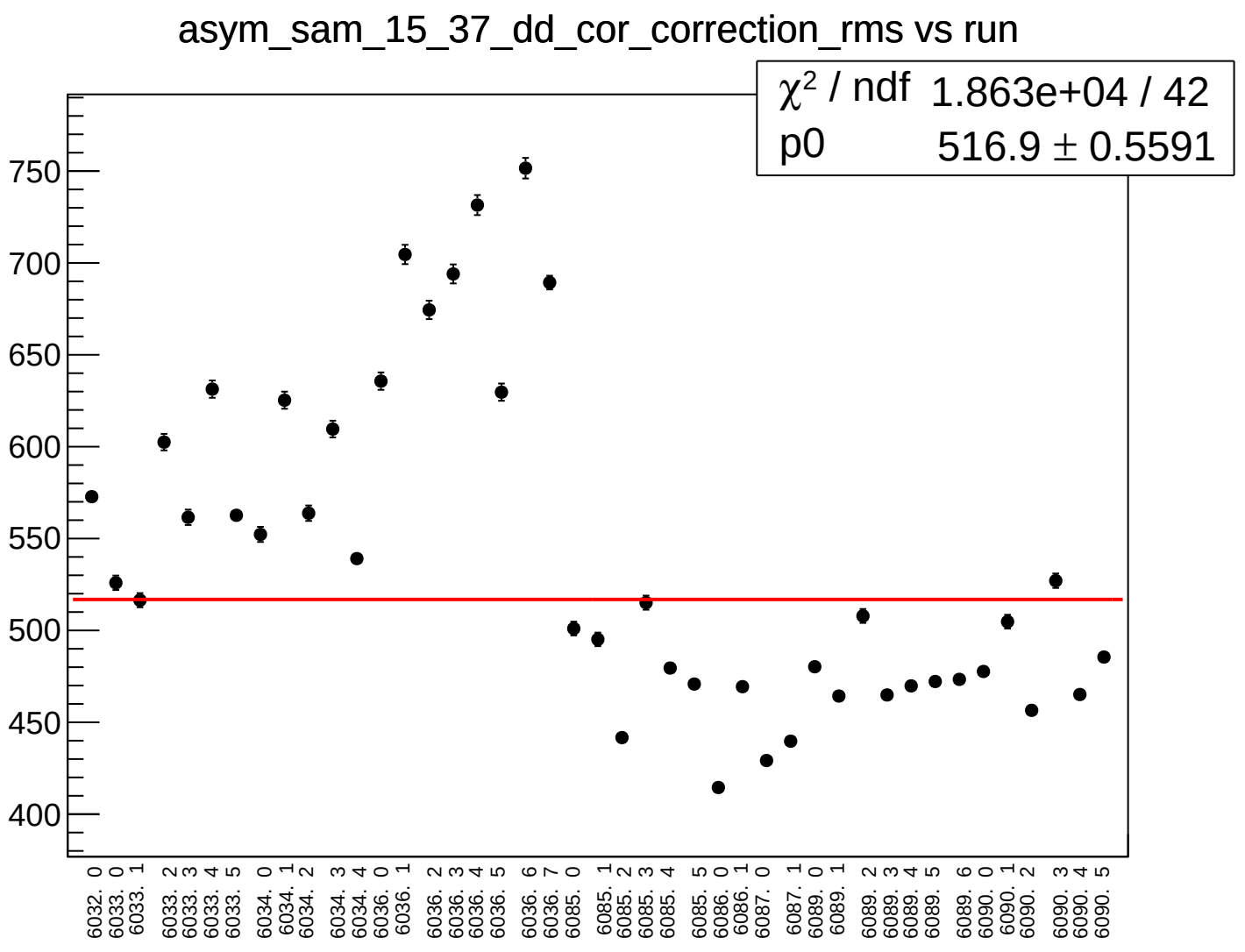
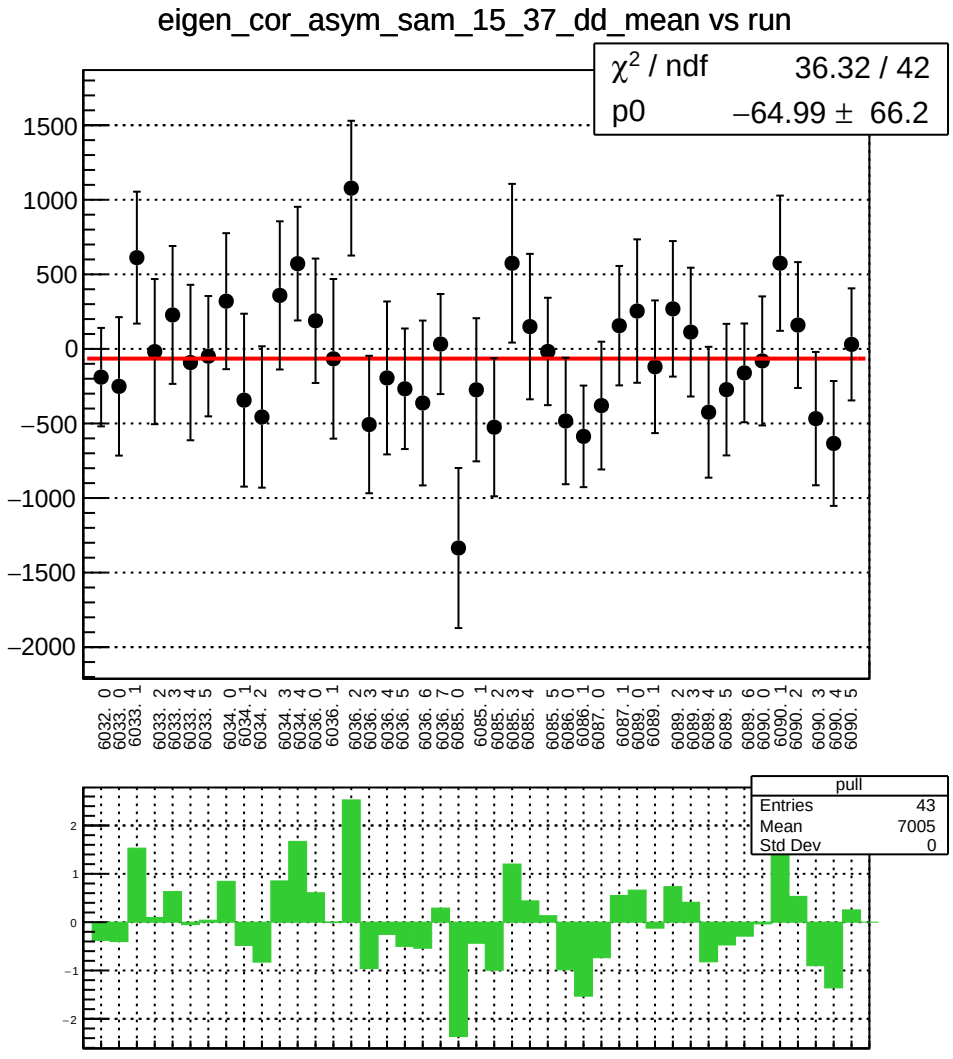
6090. 4
6090. 5

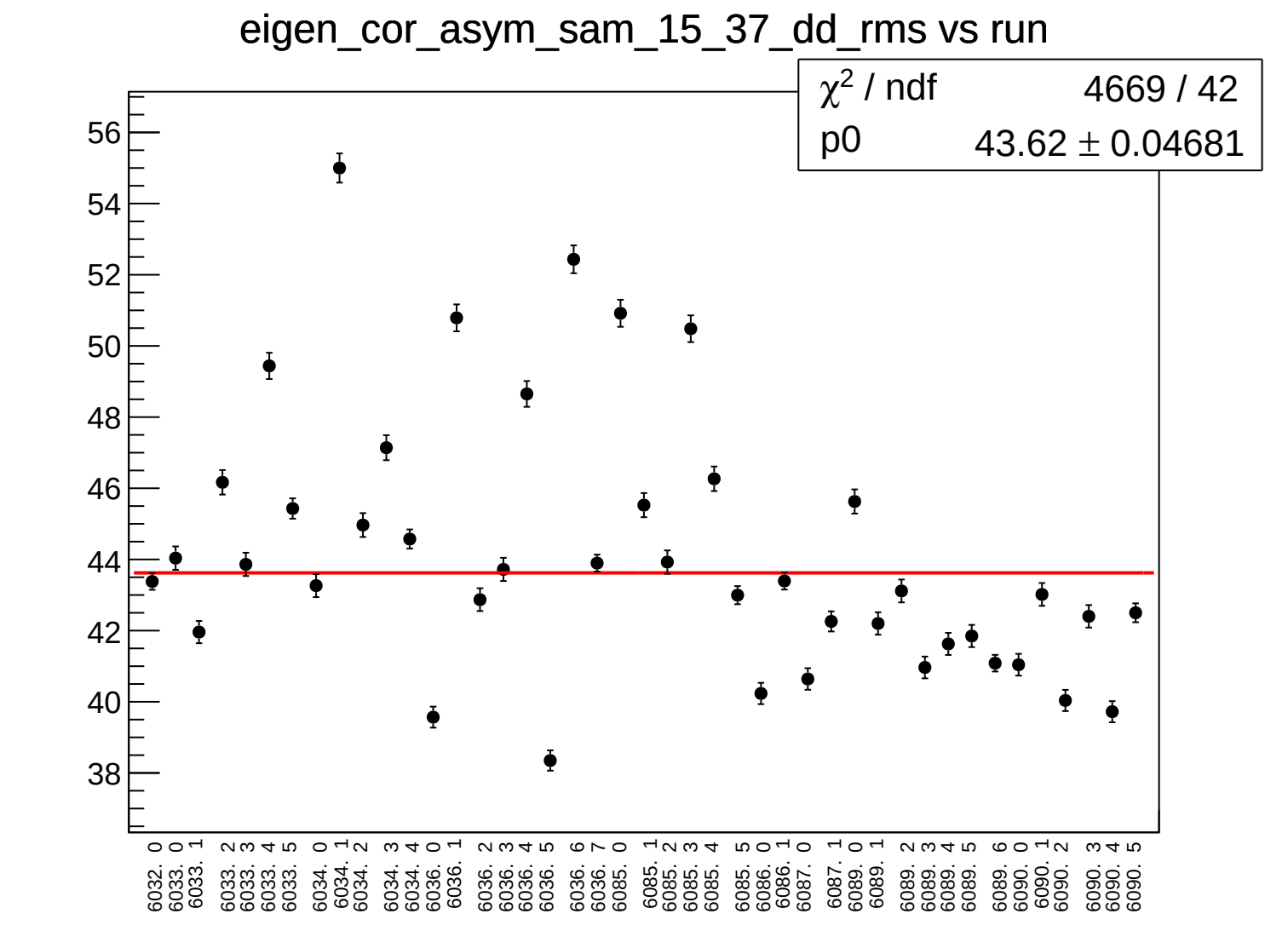

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 36.32 / 42
p0 −64.99 ± 66.2
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7005
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0002642
Std Dev 0.919
8
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 4669 / 42
p0 43.62 ± 0.04681
56
54
52
50
48
46
44
42
40
38
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 41.8 / 42
p0 −134.8 ± 790.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.39
Std Dev 31.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03004
Std Dev 0.9855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.863e+04 / 42
p0 516.9 ± 0.5591
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 36.32 / 42
p0 −64.99 ± 66.2
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7005
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0002642
Std Dev 0.919
8
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 4669 / 42
p0 43.62 ± 0.04681
56
54
52
50
48
46
44
42
40
38
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
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6090. 2
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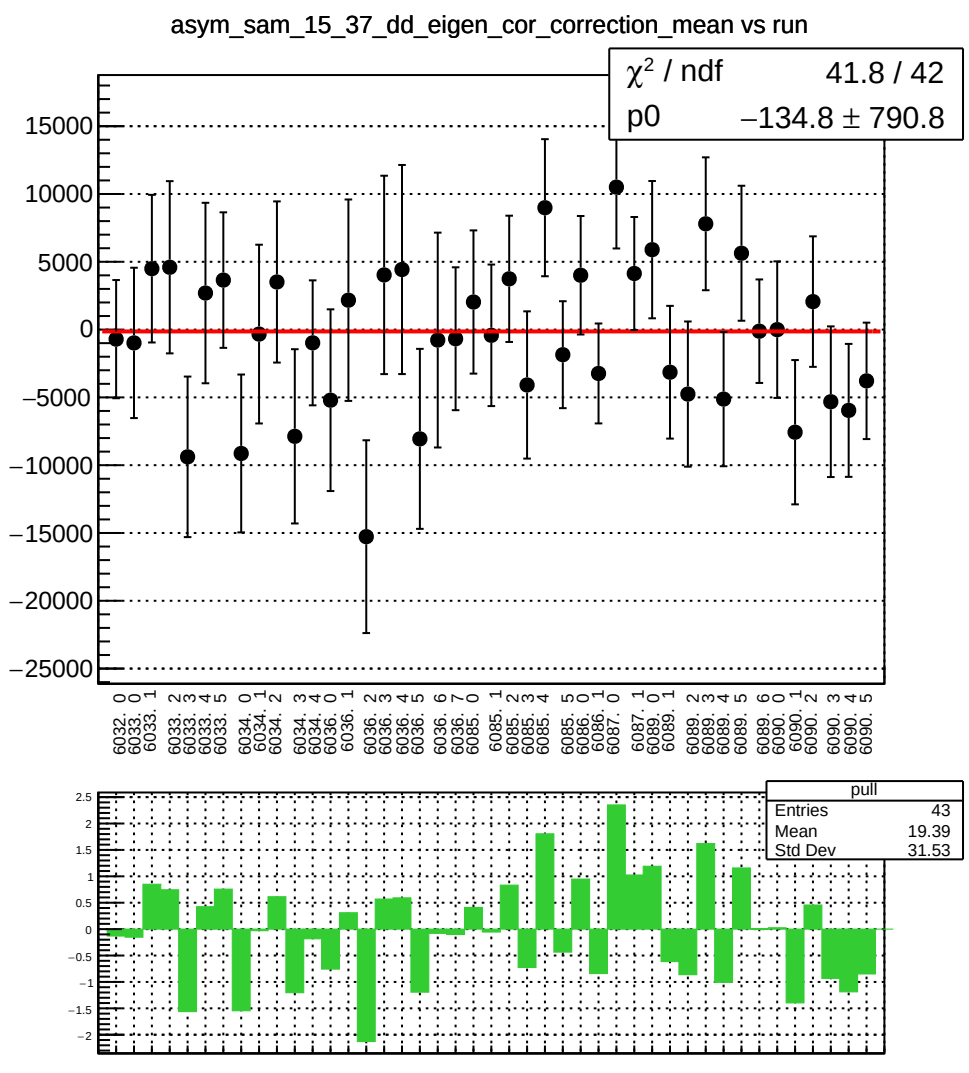
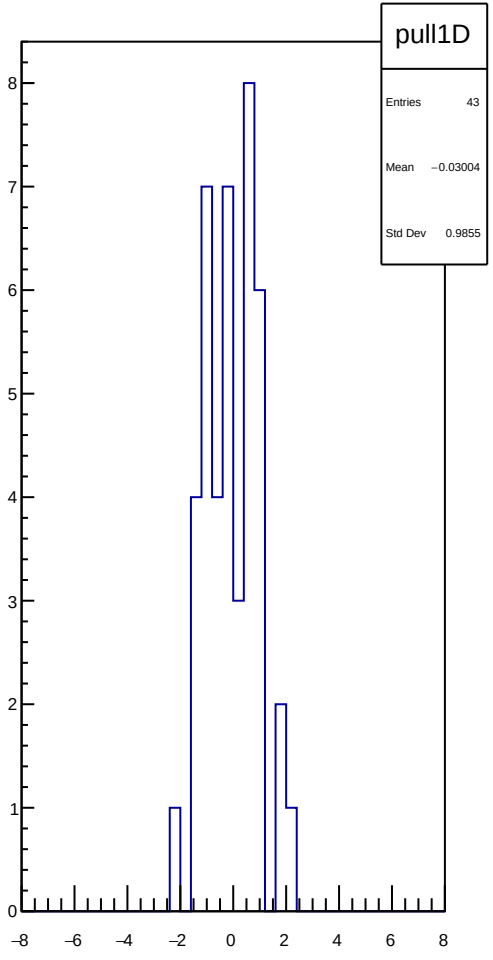
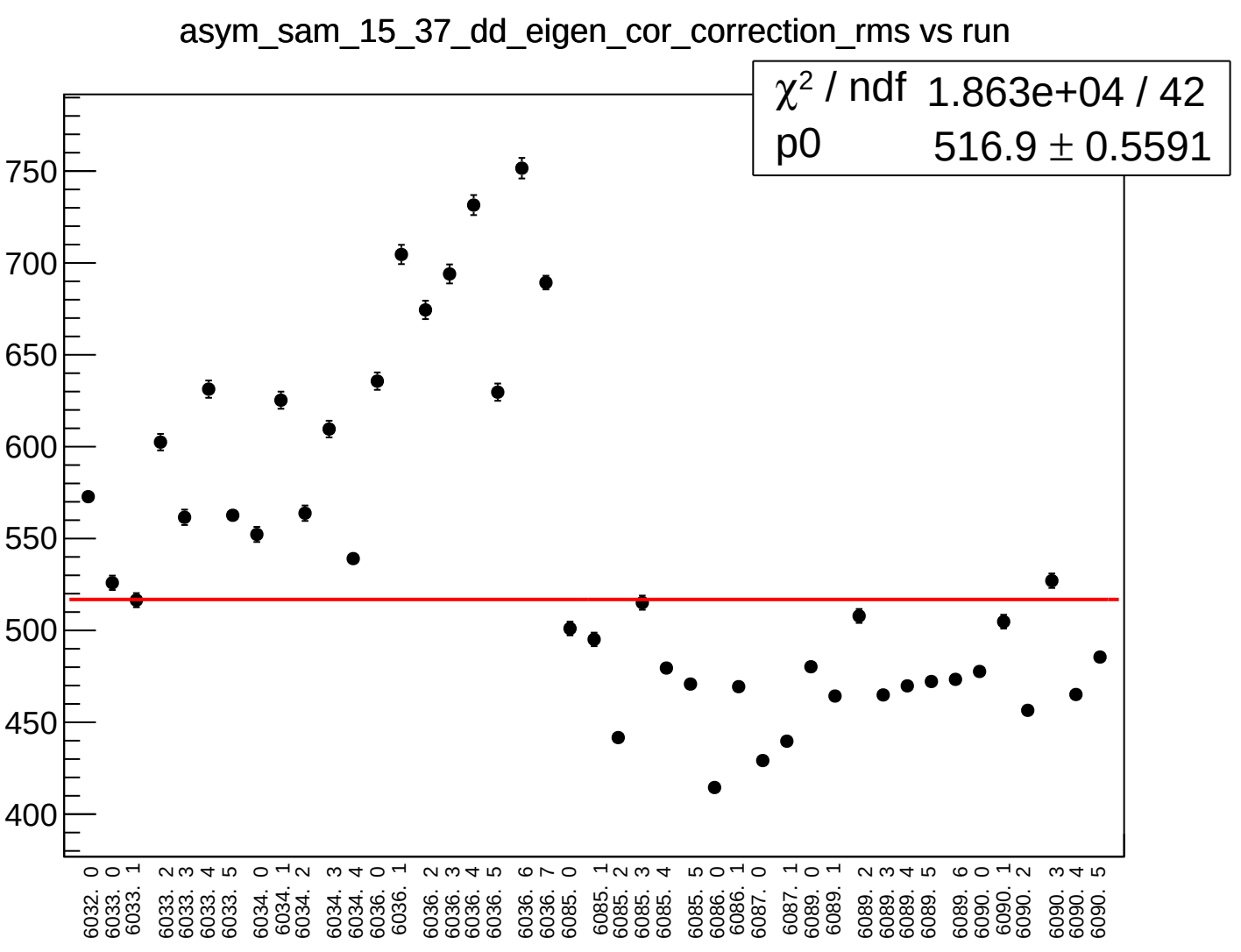
6090. 4
6090. 5


asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.8 / 42
p0 −134.8 ± 790.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.39
Std Dev 31.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.03004
Std Dev 0.9855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.863e+04 / 42
p0 516.9 ± 0.5591
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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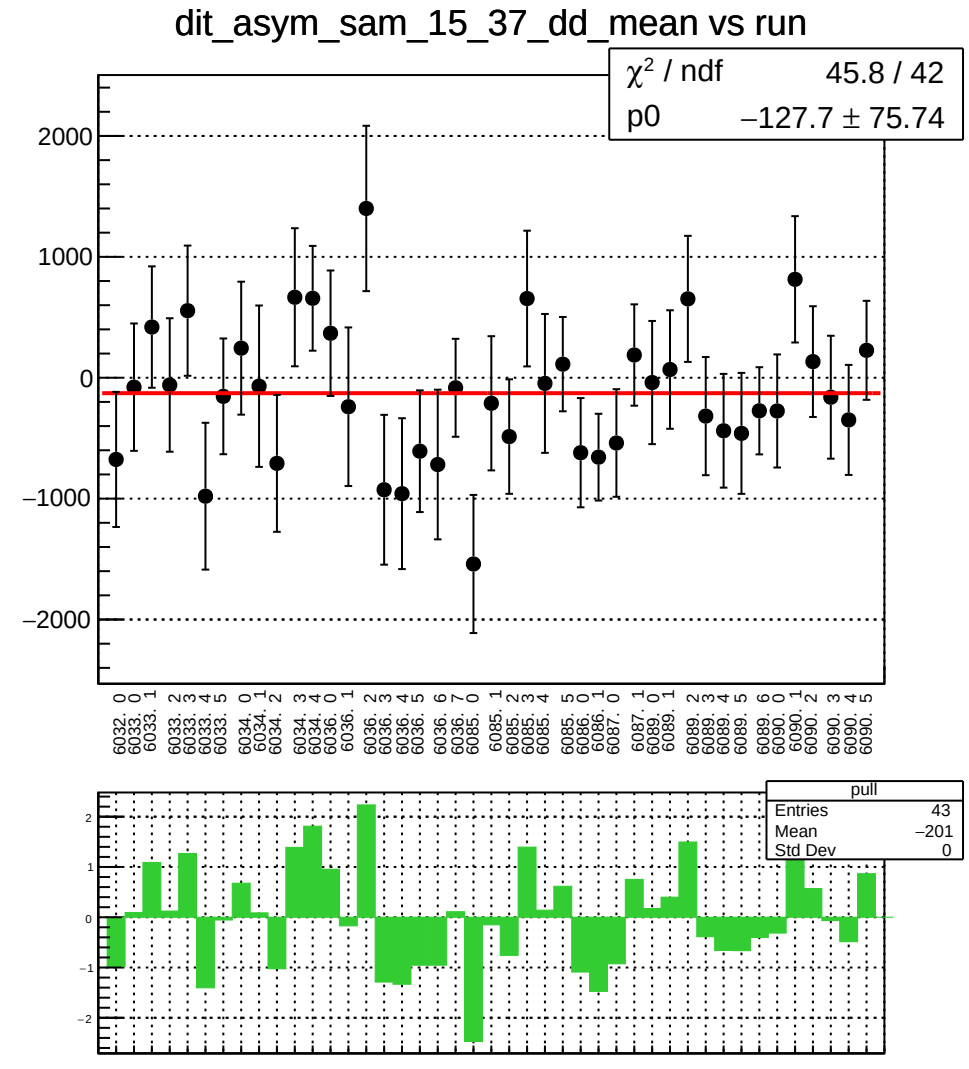
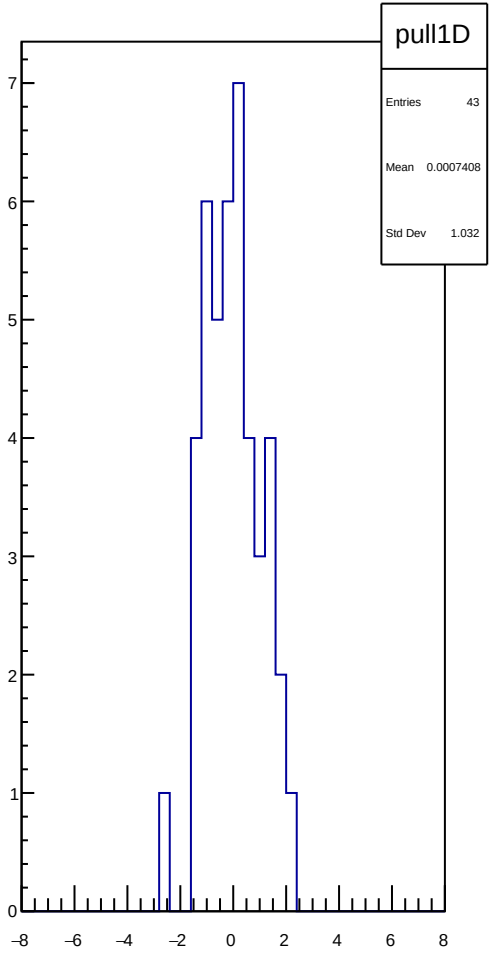
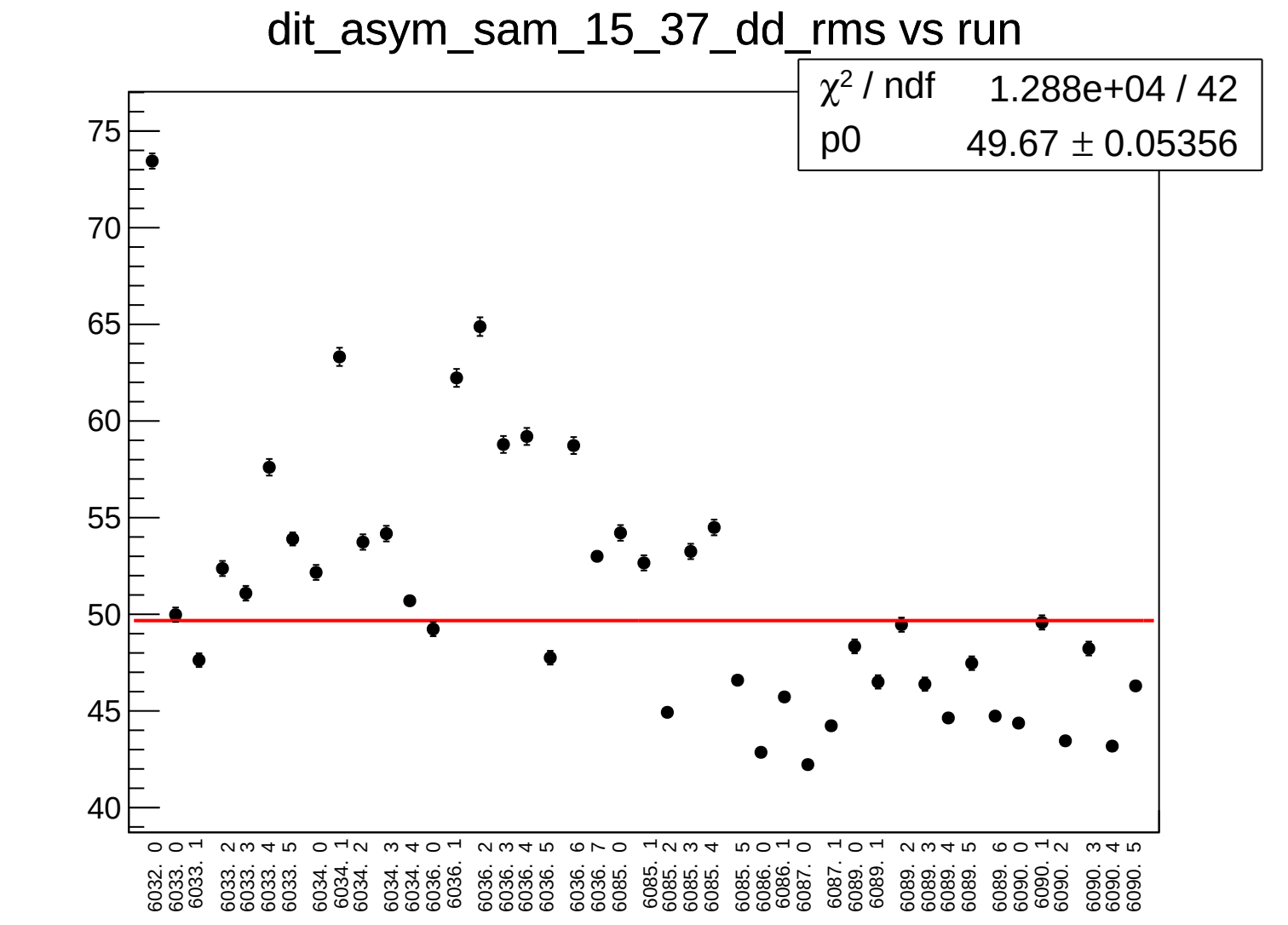
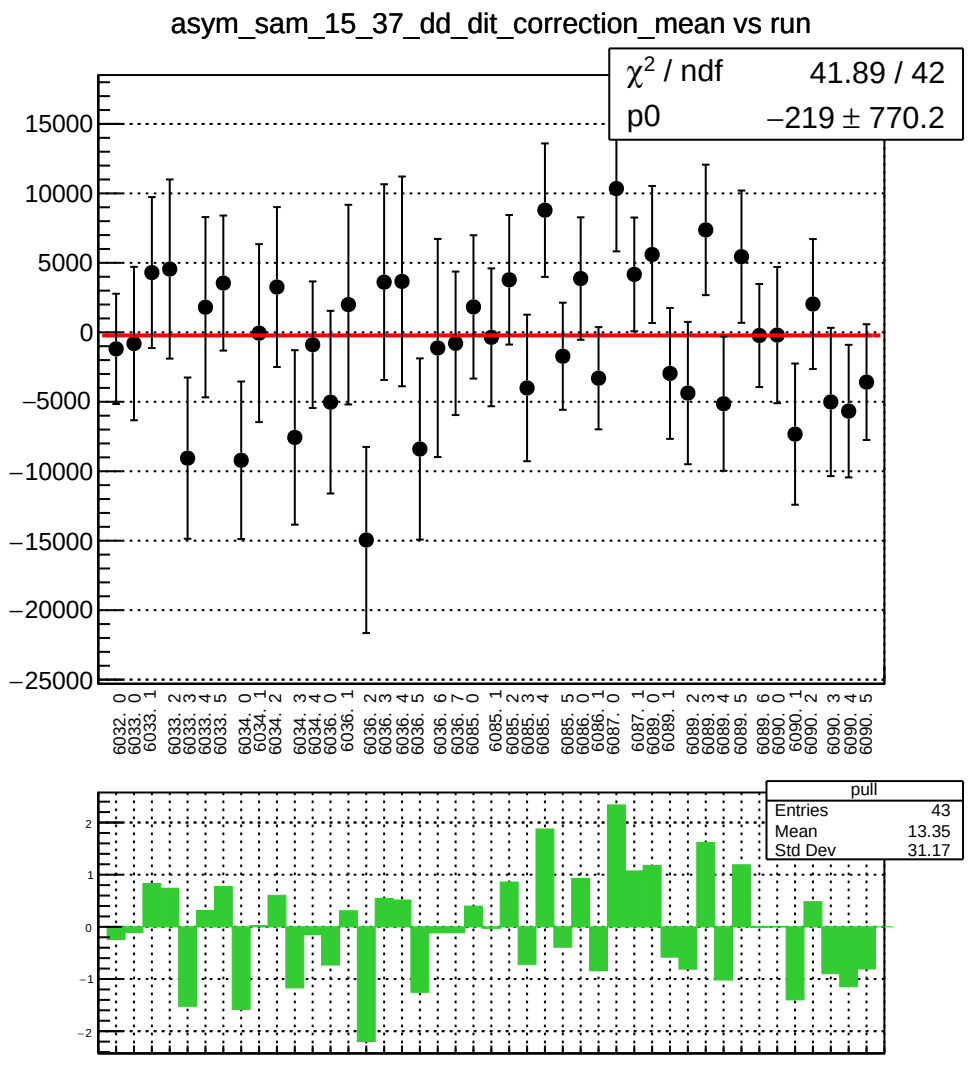
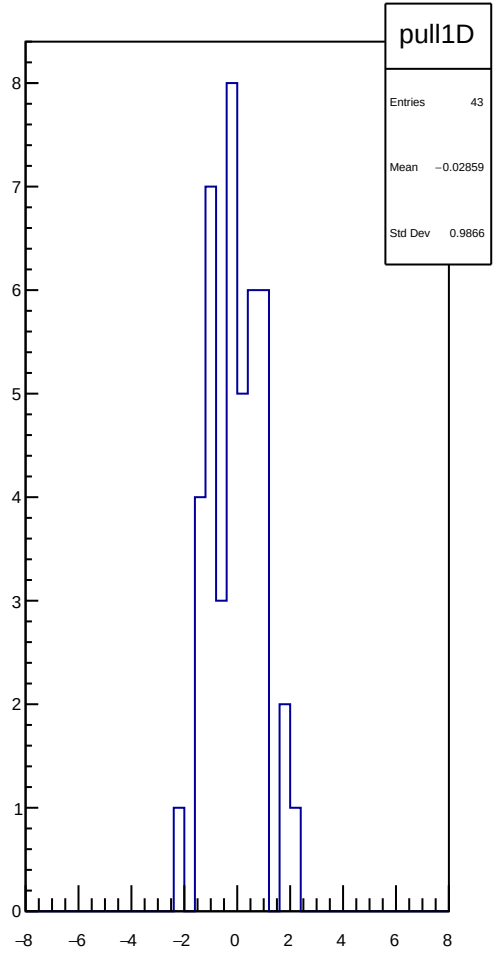
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

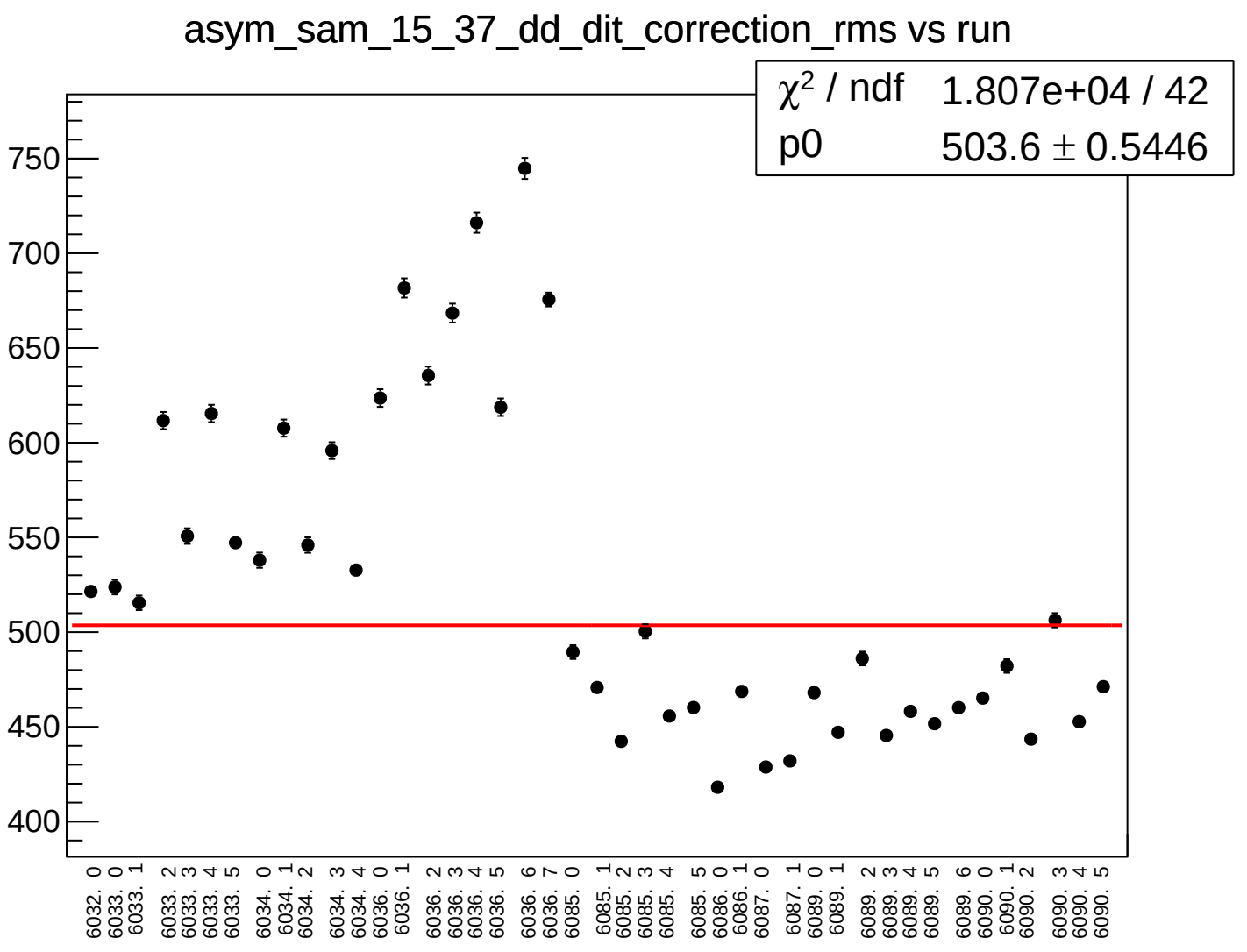

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 45.8 / 42
p0 −127.7 ± 75.74
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −201
Std Dev 0
2
1
0
−1
−2

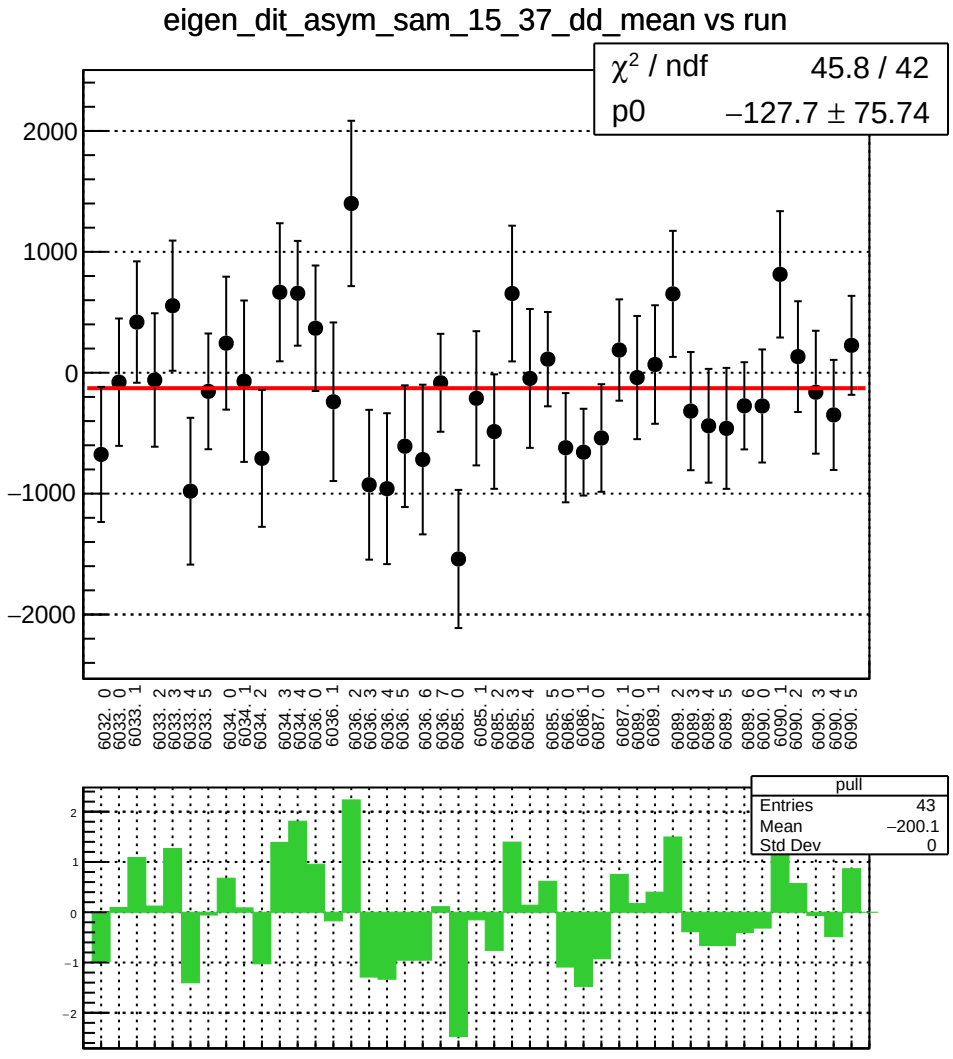

pull1D
Entries 43
Mean 0.0007408
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

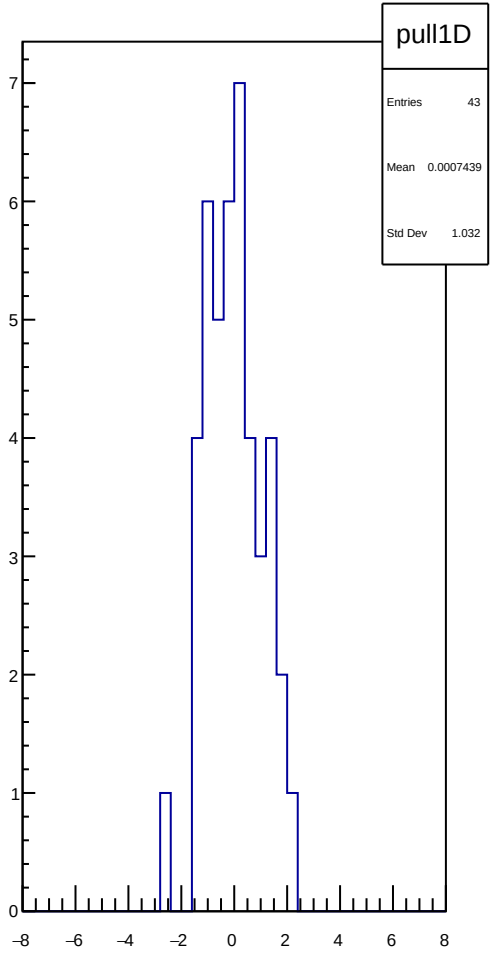

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.288e+04 / 42
p0 49.67 ± 0.05356
75
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

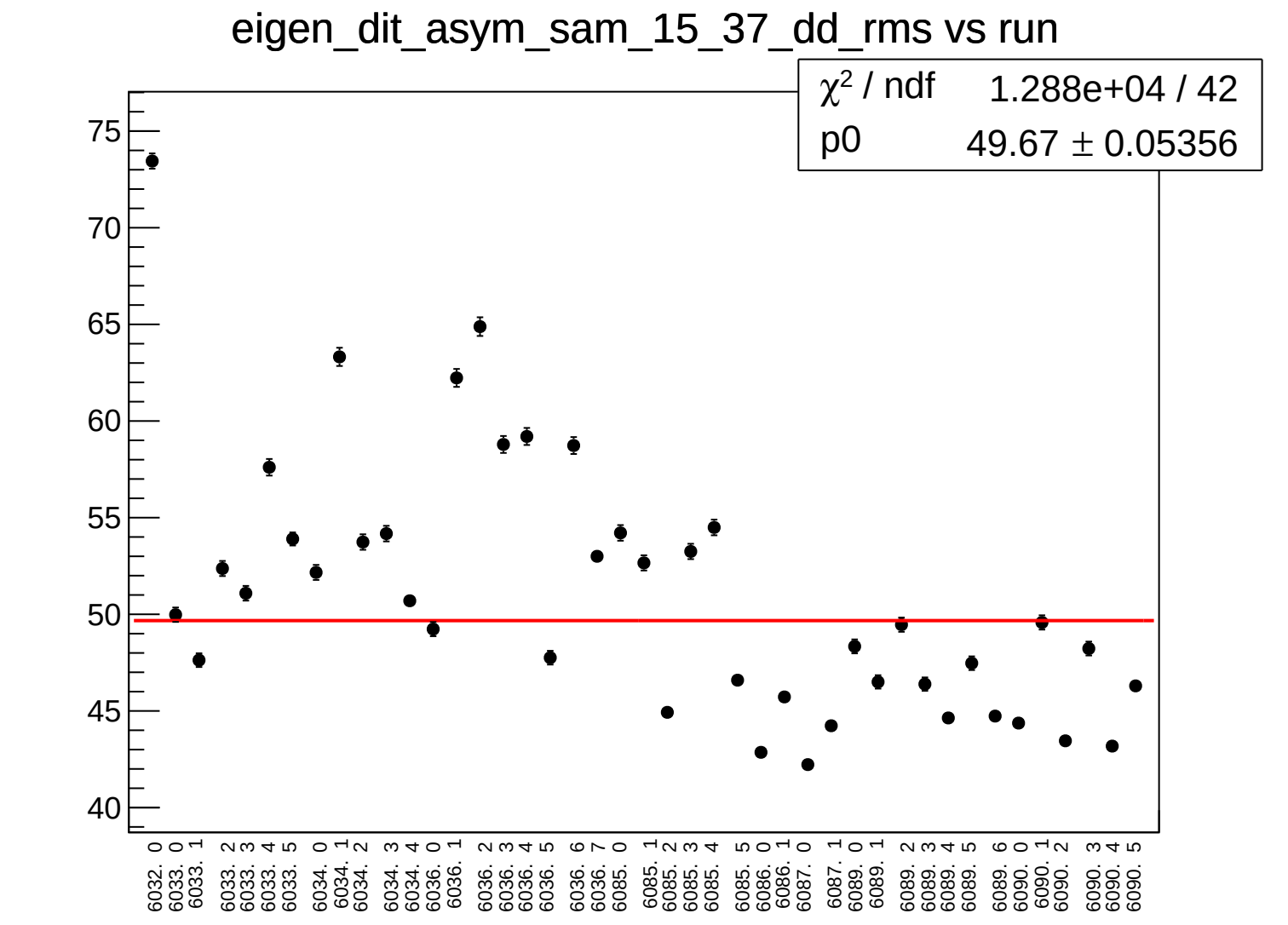

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 41.89 / 42
p0 −219 ± 770.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.35
Std Dev 31.17
2
1
0
−1
−2

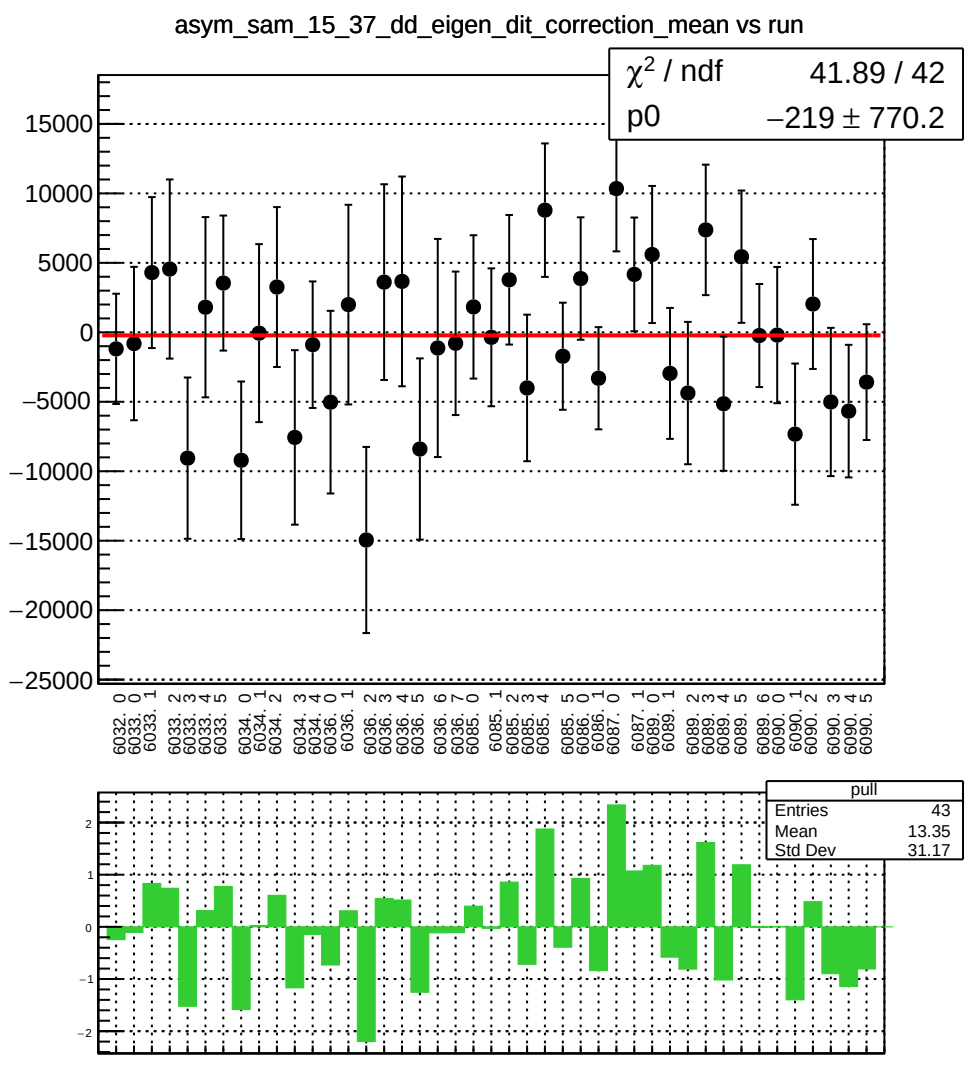

pull1D
Entries 43
Mean −0.02859
Std Dev 0.9866
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

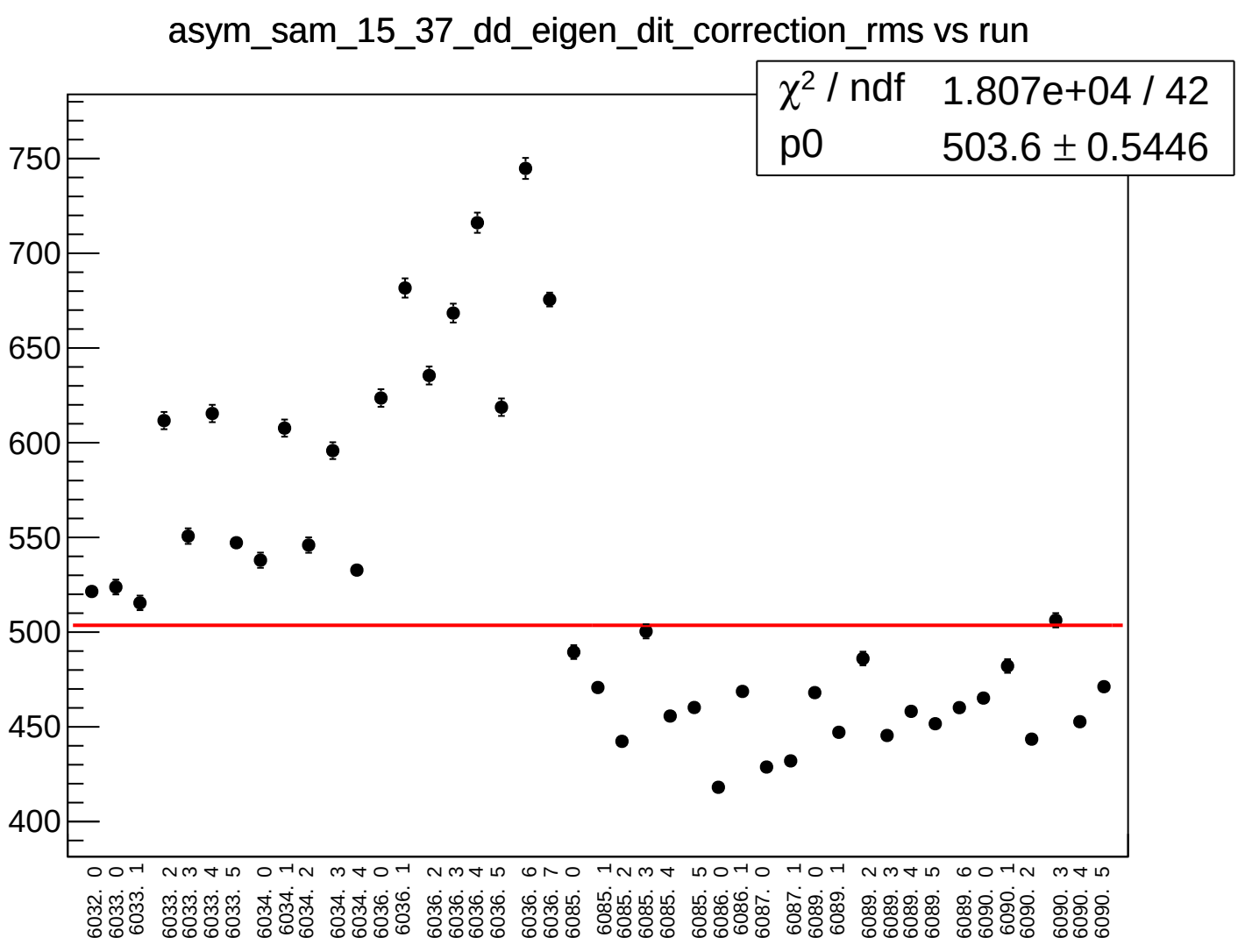

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.807e+04 / 42
p0 503.6 ± 0.5446
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

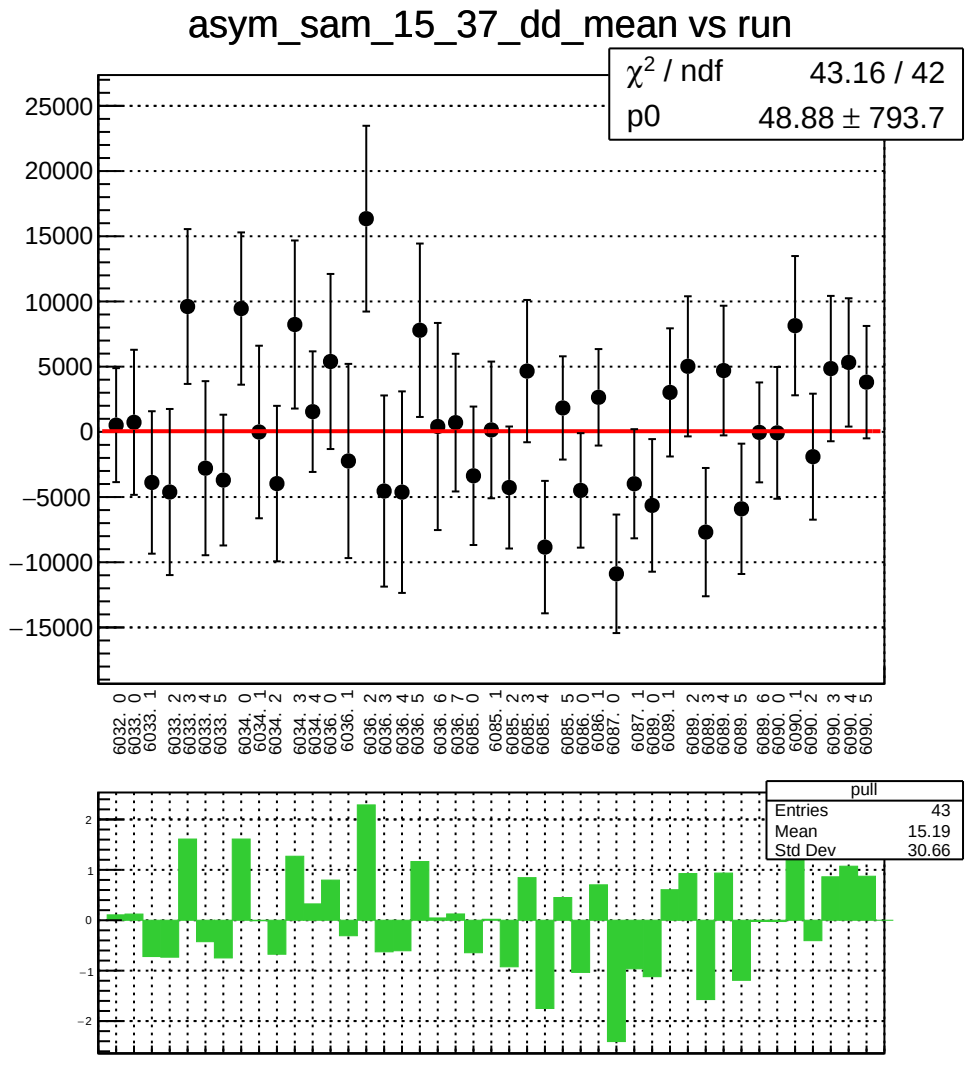

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 45.8 / 42
p0 −127.7 ± 75.74
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −200.1
Std Dev 0
2
1
0
−1
−2

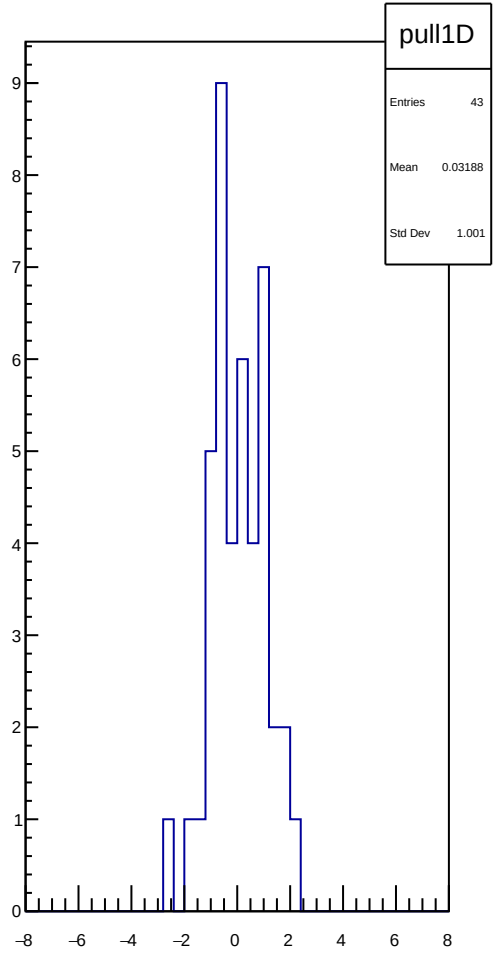

pull1D
Entries 43
Mean 0.0007439
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

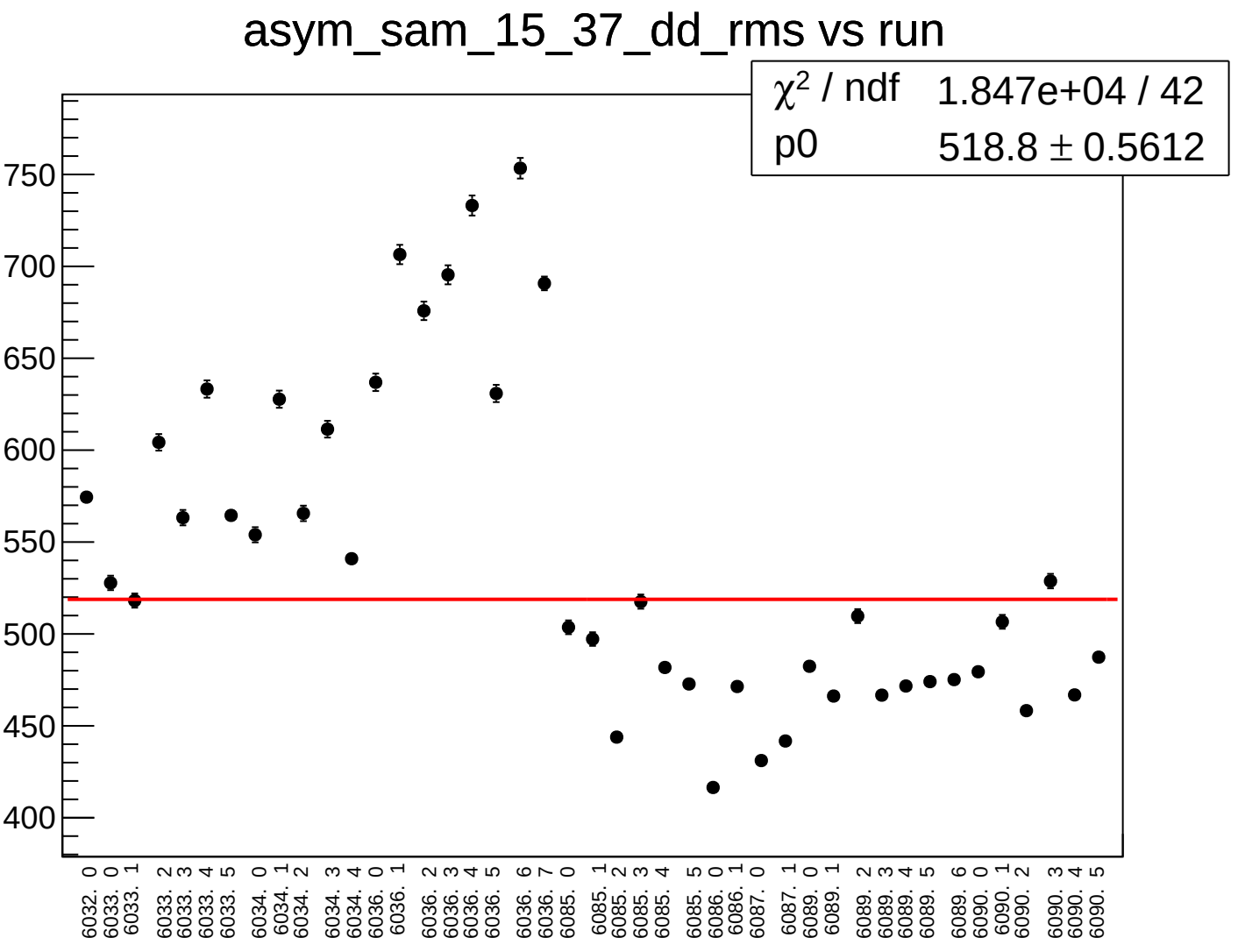

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.288e+04 / 42
p0 49.67 ± 0.05356
75
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

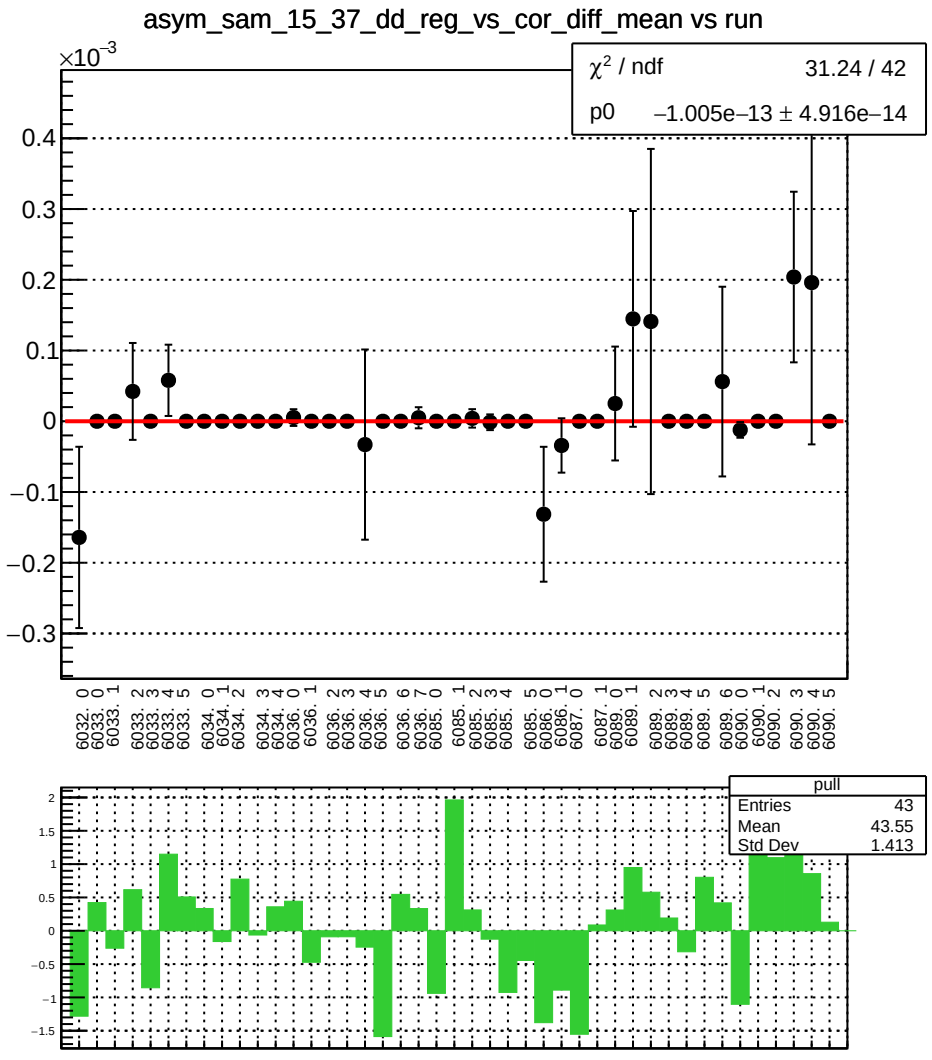

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 41.89 / 42
p0 −219 ± 770.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.35
Std Dev 31.17
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02859
Std Dev 0.9866
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

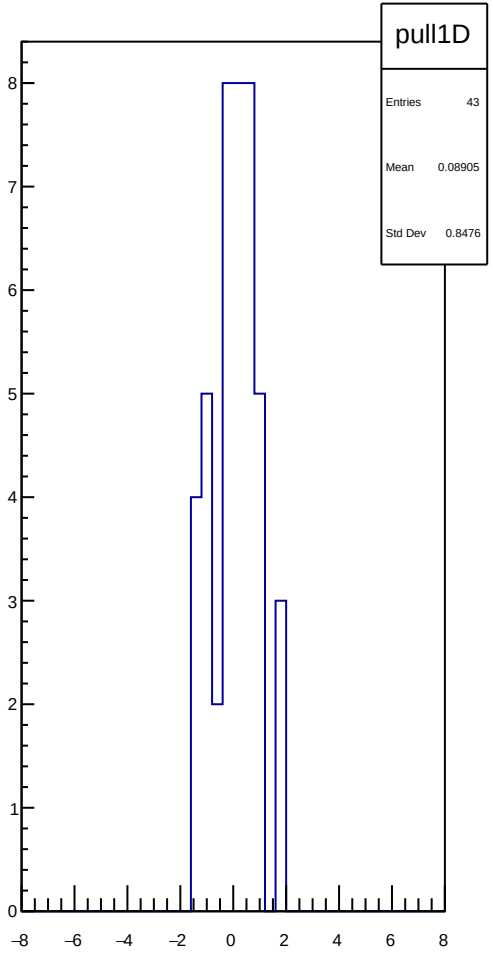

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.807e+04 / 42
p0 503.6 ± 0.5446
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

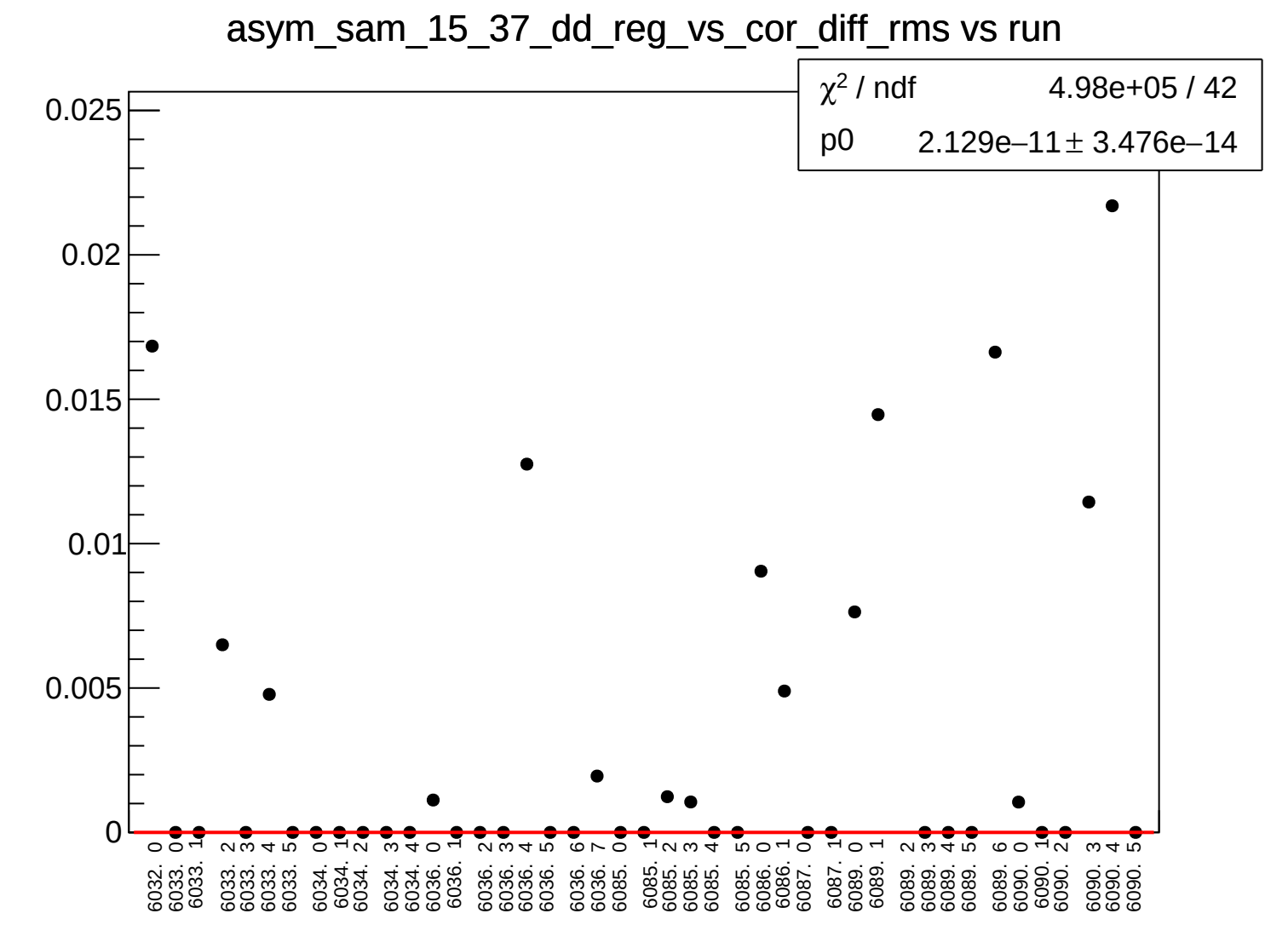

asym_sam_15_37_dd_mean vs run
χ² / ndf 43.16 / 42
p0 48.88 ± 793.7
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.19
Std Dev 30.66
2
1
0
−1
−2

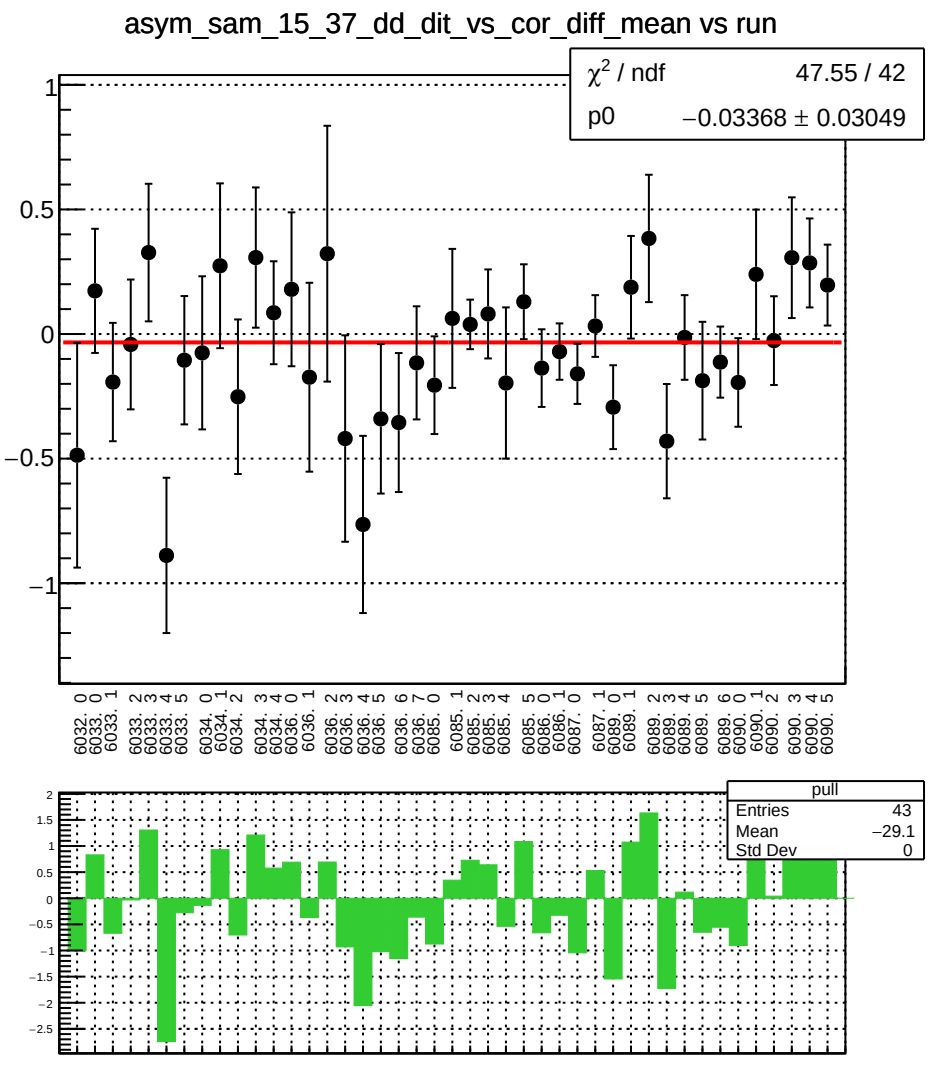

pull1D
Entries 43
Mean 0.03188
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

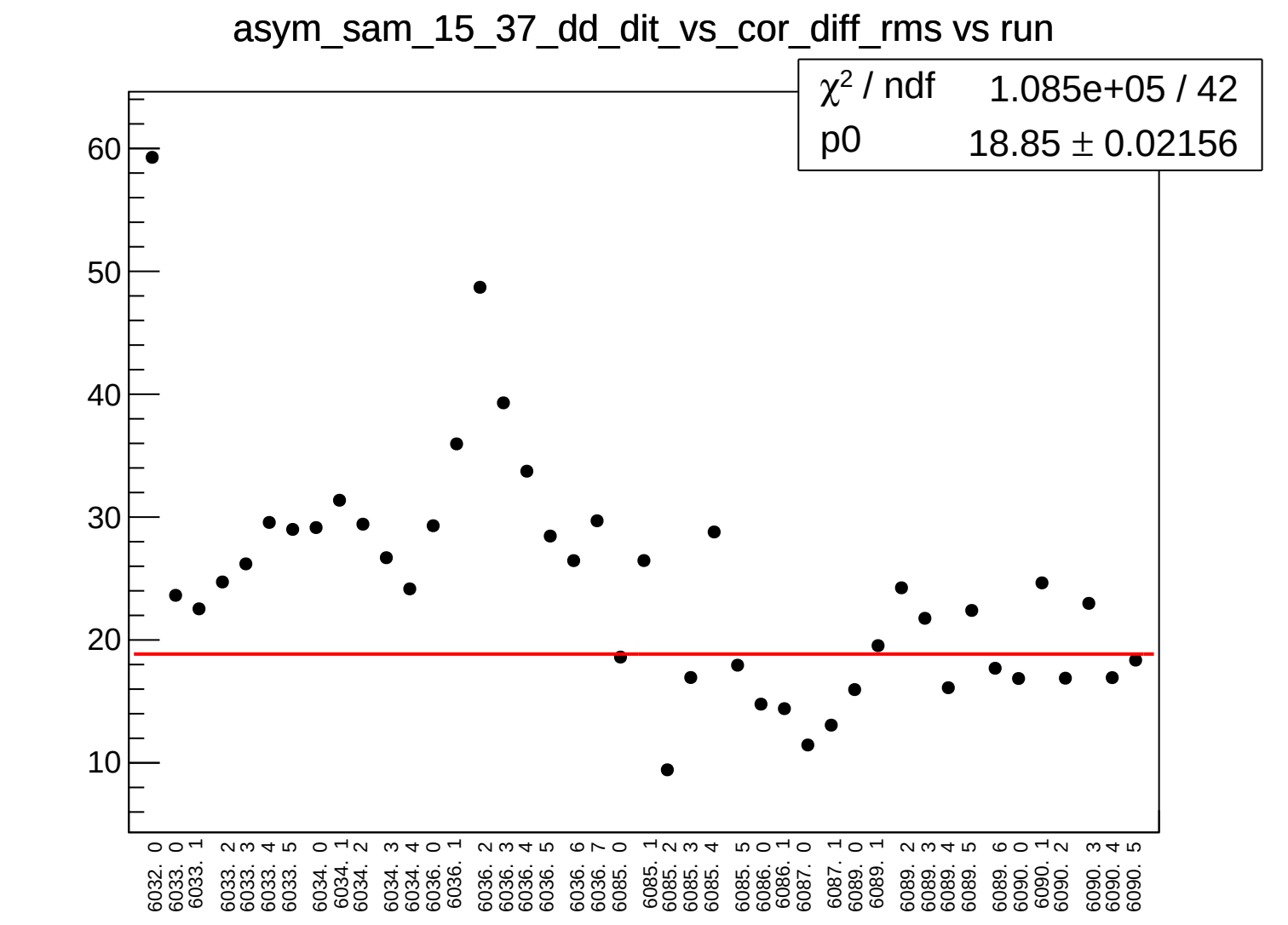

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.847e+04 / 42
p0 518.8 ± 0.5612
750
700
650
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

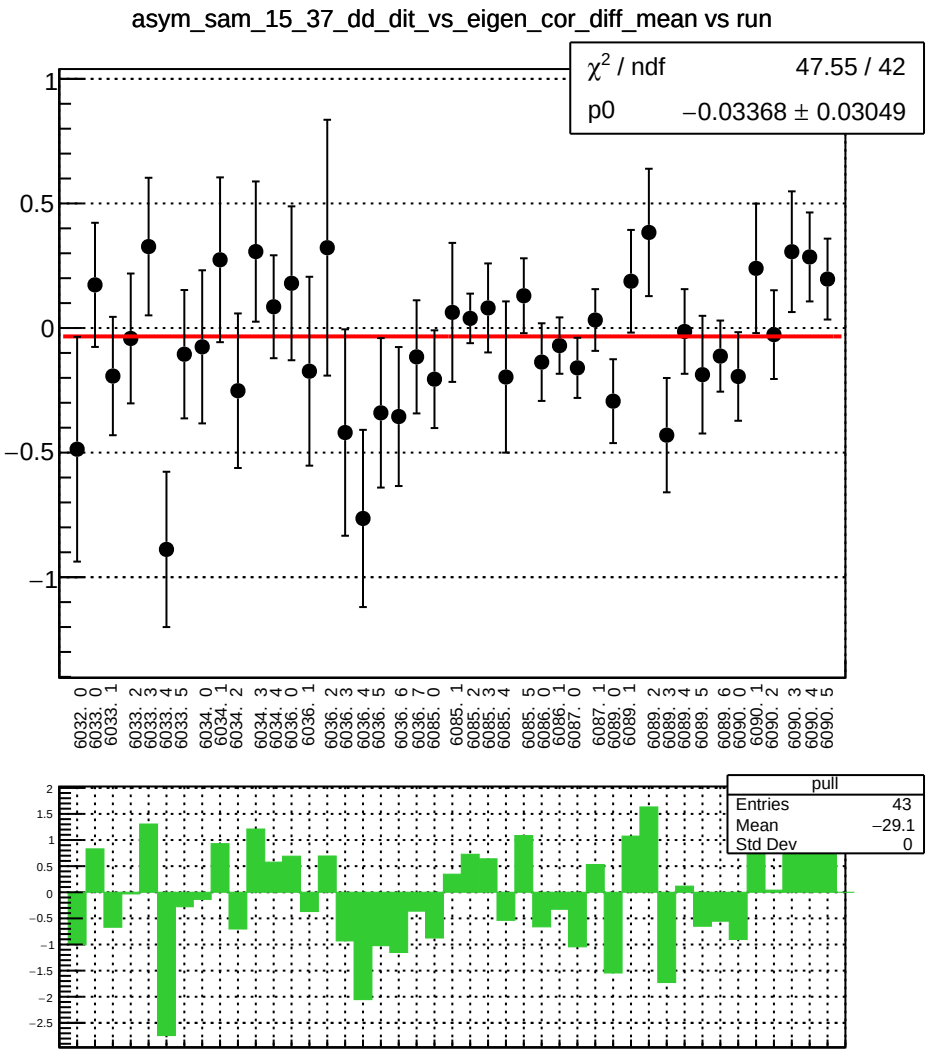

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 31.24 / 42
p0 −1.005e−13 ± 4.916e−14
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 43.55
Std Dev 1.413
2
1.5
1
0.5
0
−0.5
−1
−1.5

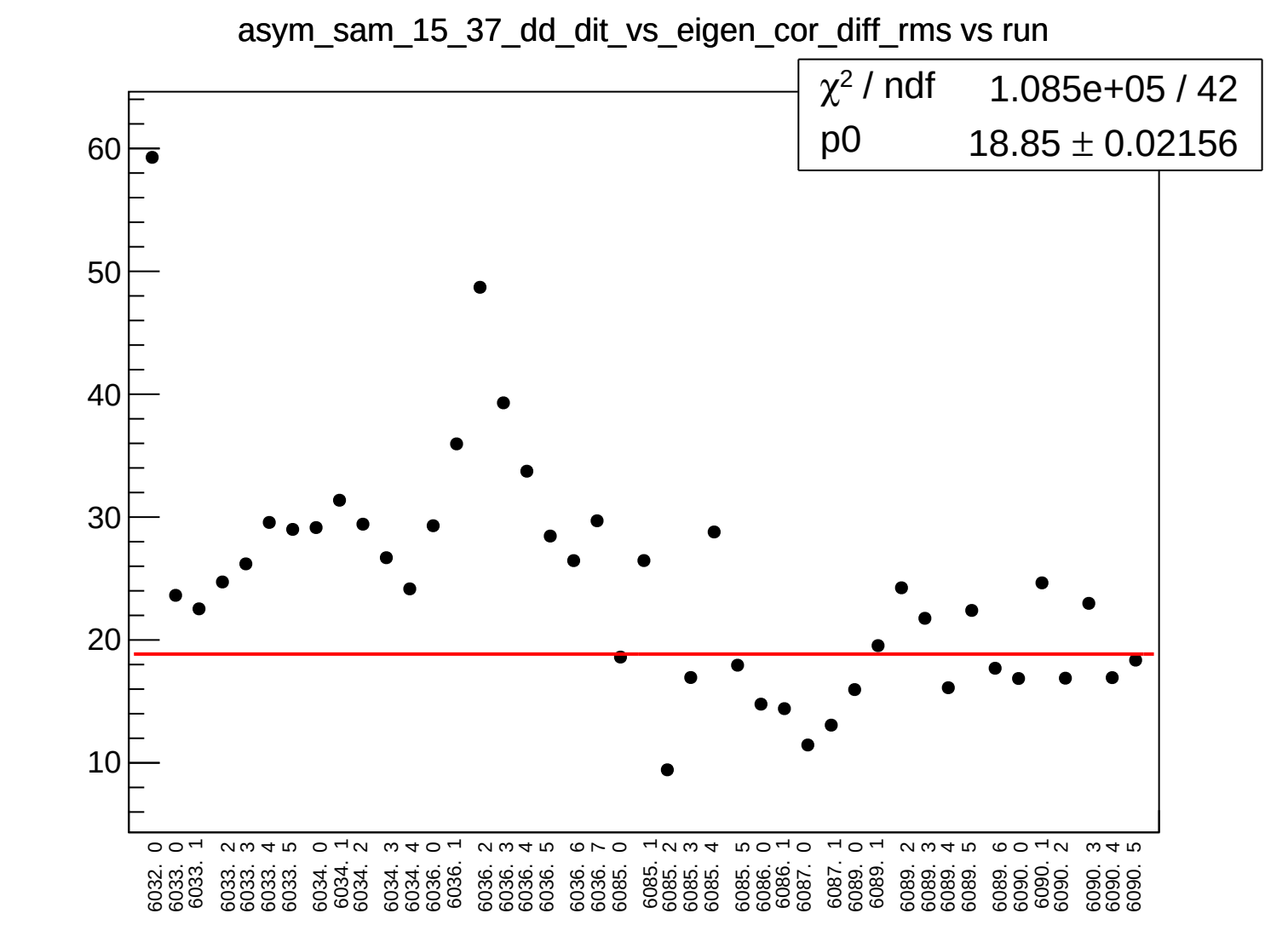

pull1D
Entries 43
Mean 0.08905
Std Dev 0.8476
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

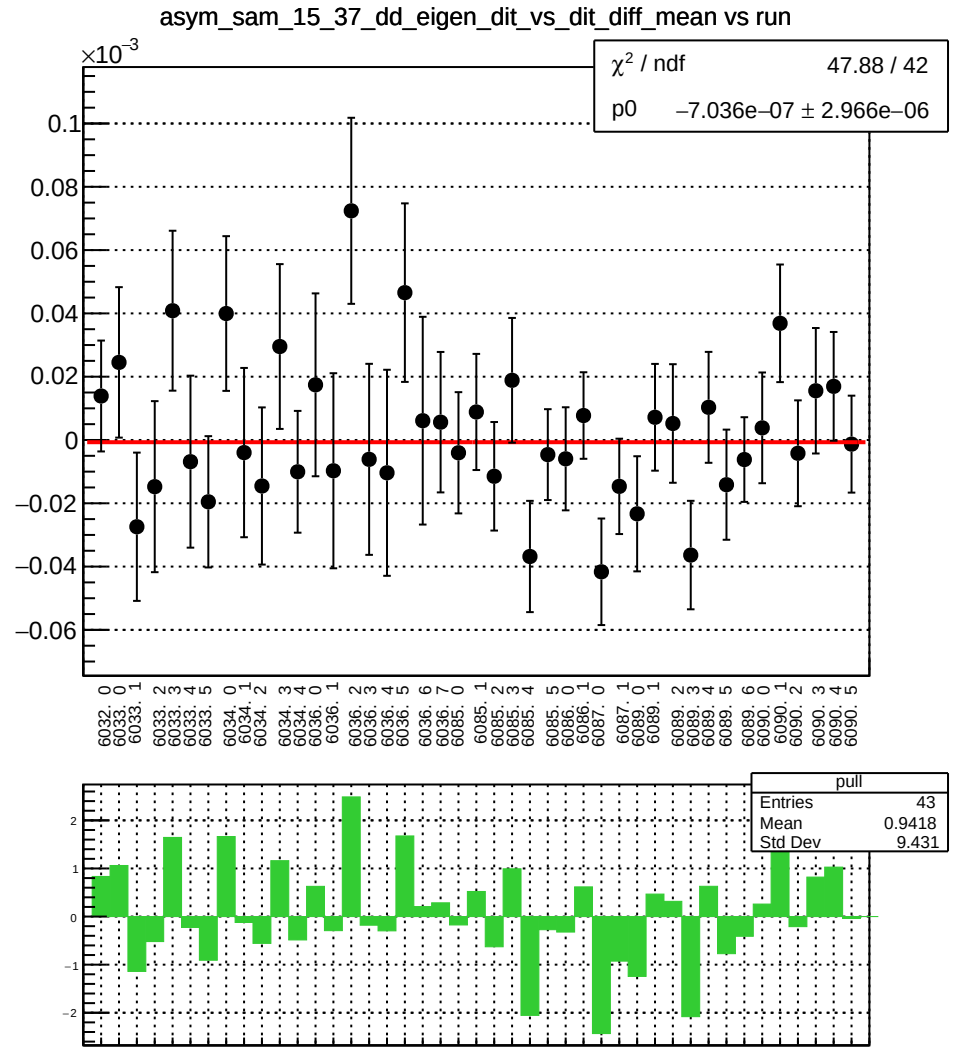

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.98e+05 / 42
p0 2.129e−11 ± 3.476e−14
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

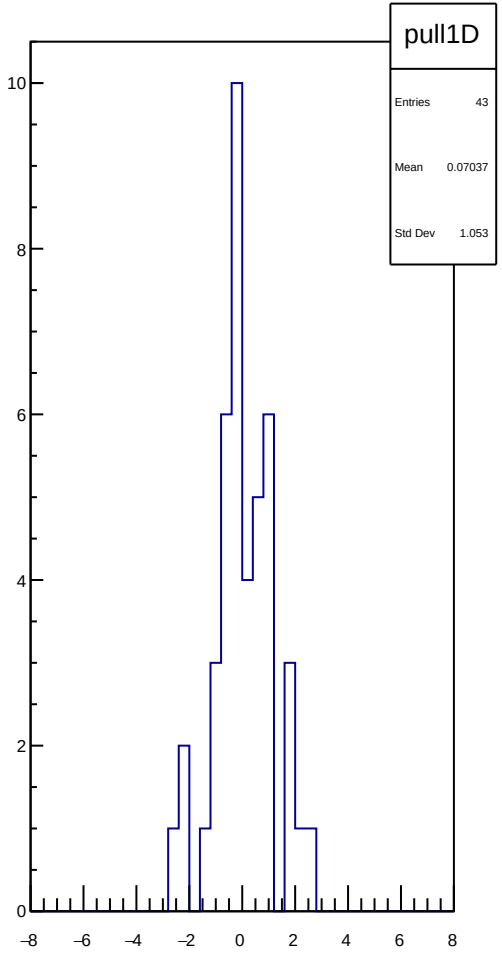

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.03368 ± 0.03049
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −29.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.05081
Std Dev 1.05
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

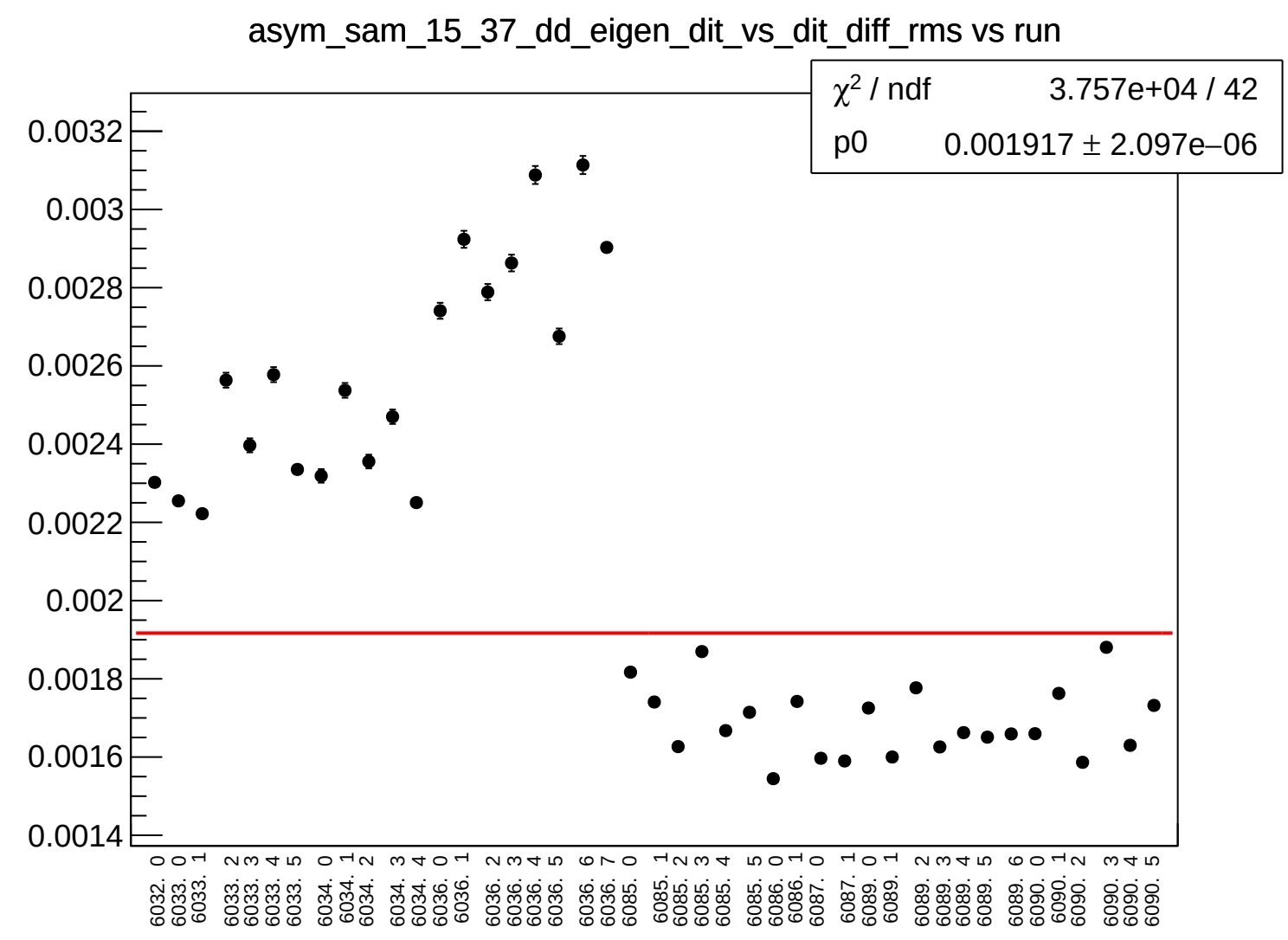

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.085e+05 / 42
p0 18.85 ± 0.02156
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

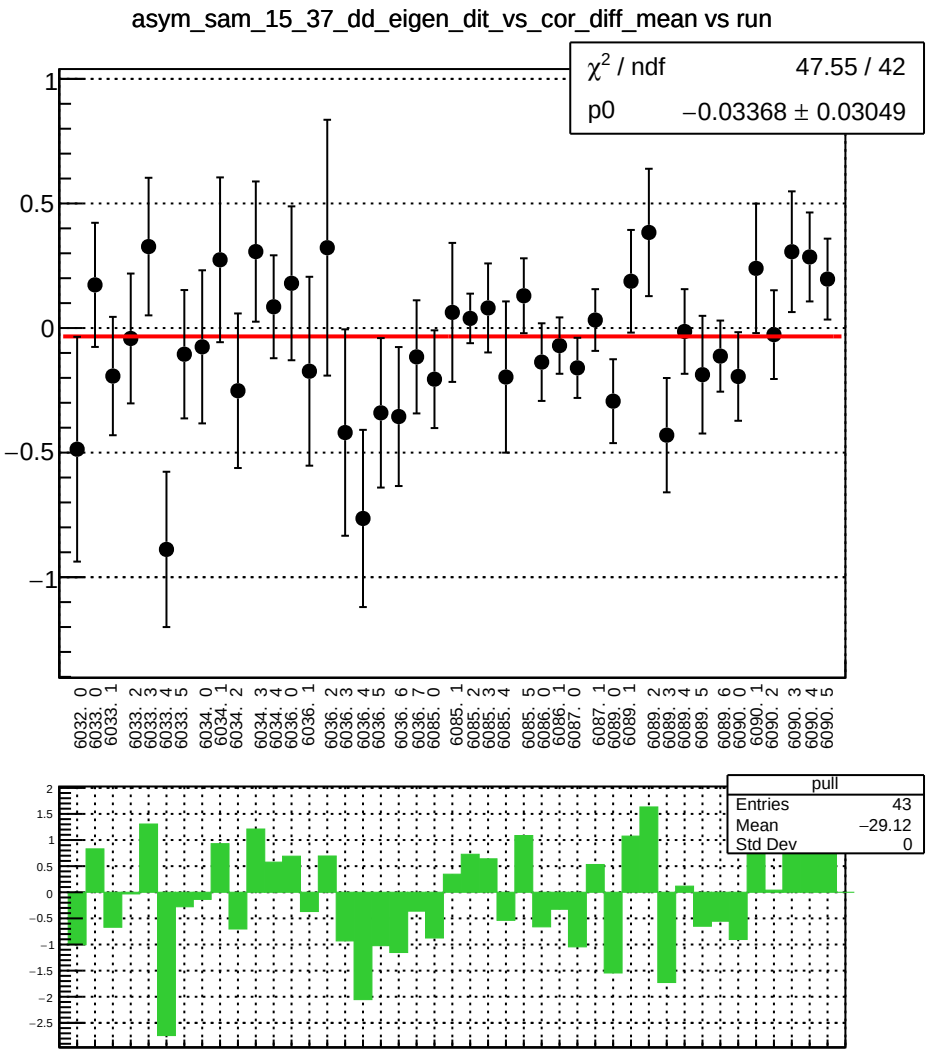

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.03368 ± 0.03049
pull
Entries 43
Mean −29.1
Std Dev 0
pull1D
Entries 43
Mean −0.05081
Std Dev 1.05

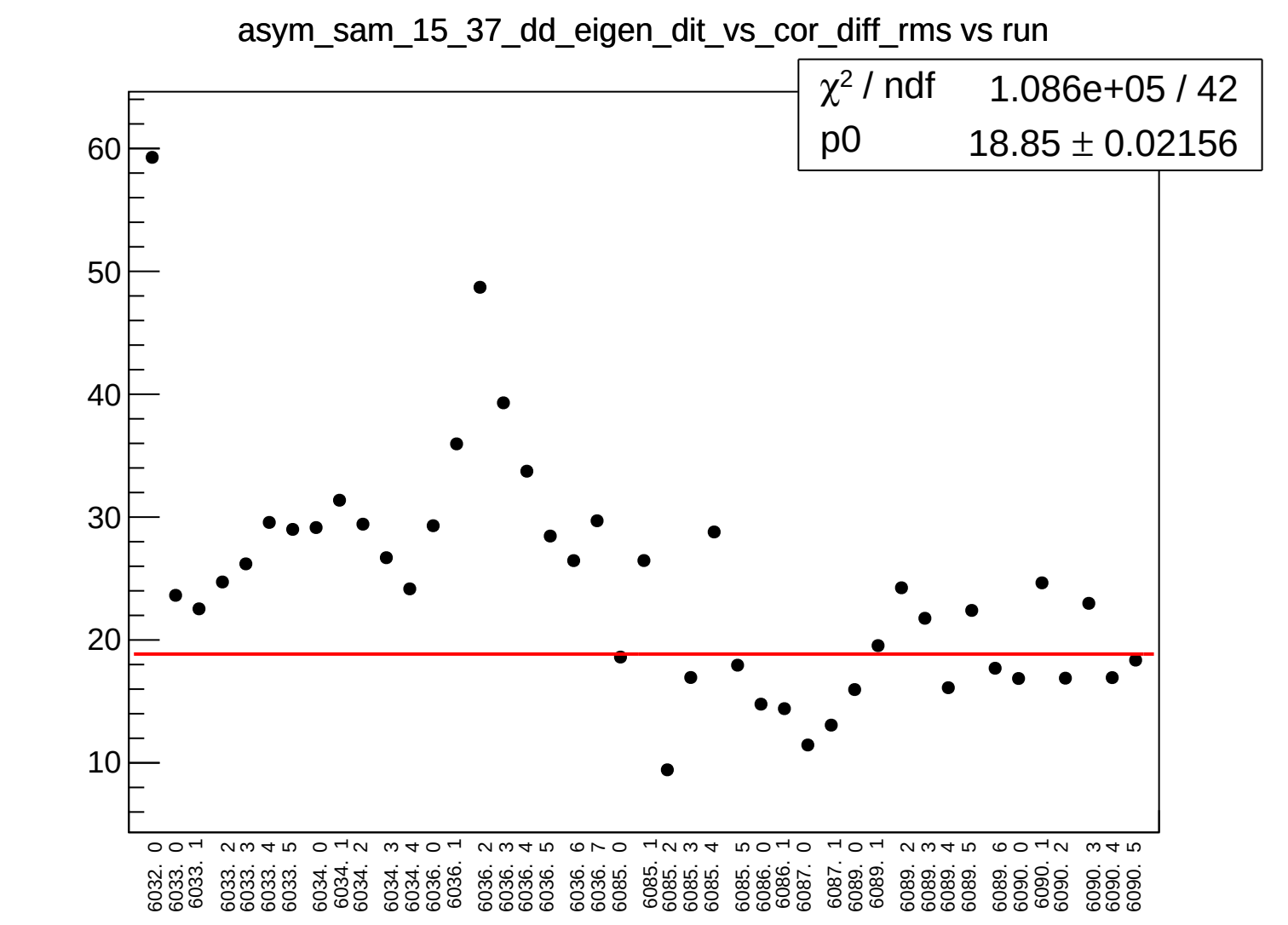

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+05 / 42
p0 18.85 ± 0.02156
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 47.88 / 42
p0 −7.036e−07 ± 2.966e−06
pull
Entries 43
Mean 0.9418
Std Dev 9.431

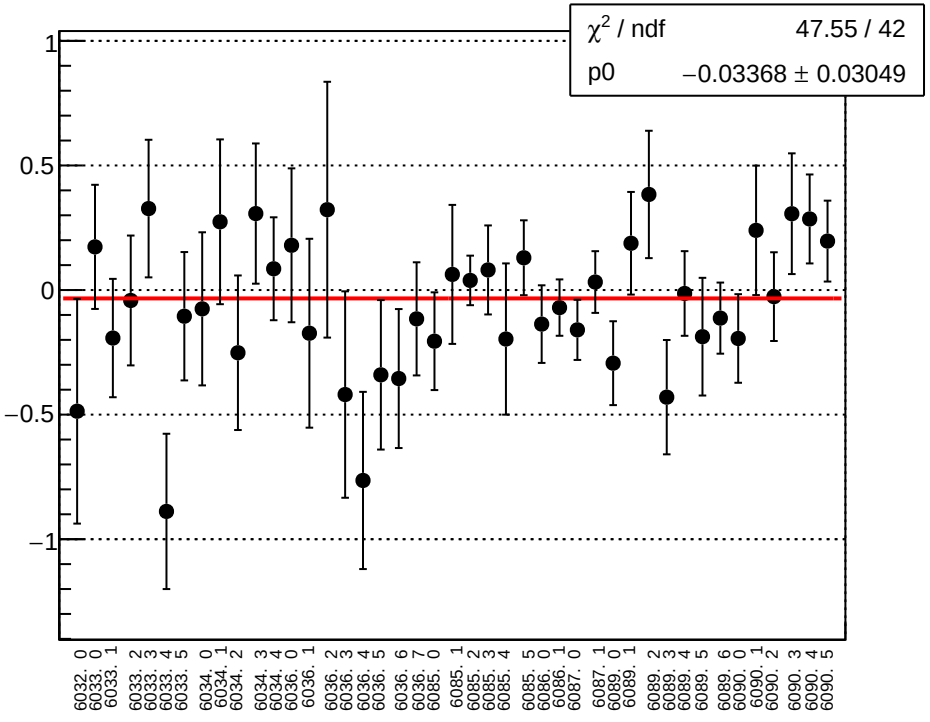

pull1D
Entries 43
Mean 0.07037
Std Dev 1.053

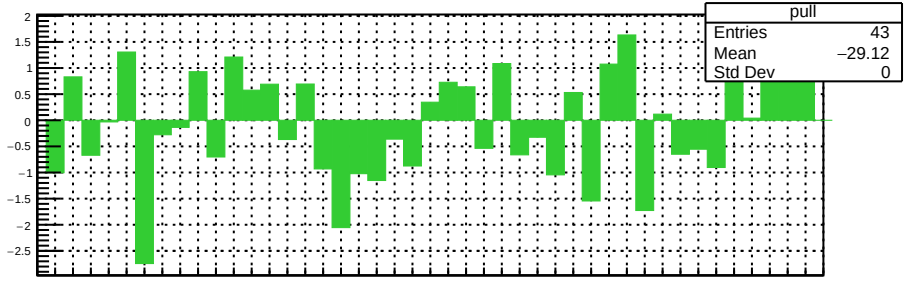

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.757e+04 / 42
p0 0.001917 ± 2.097e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

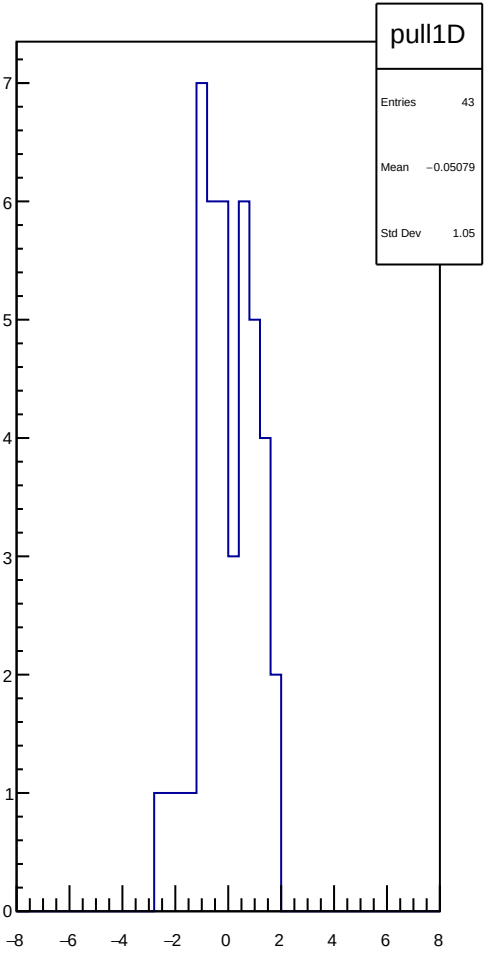

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.03368 ± 0.03049
pull
Entries 43
Mean −29.12
Std Dev 0
pull1D
Entries 43
Mean −0.05079
Std Dev 1.05

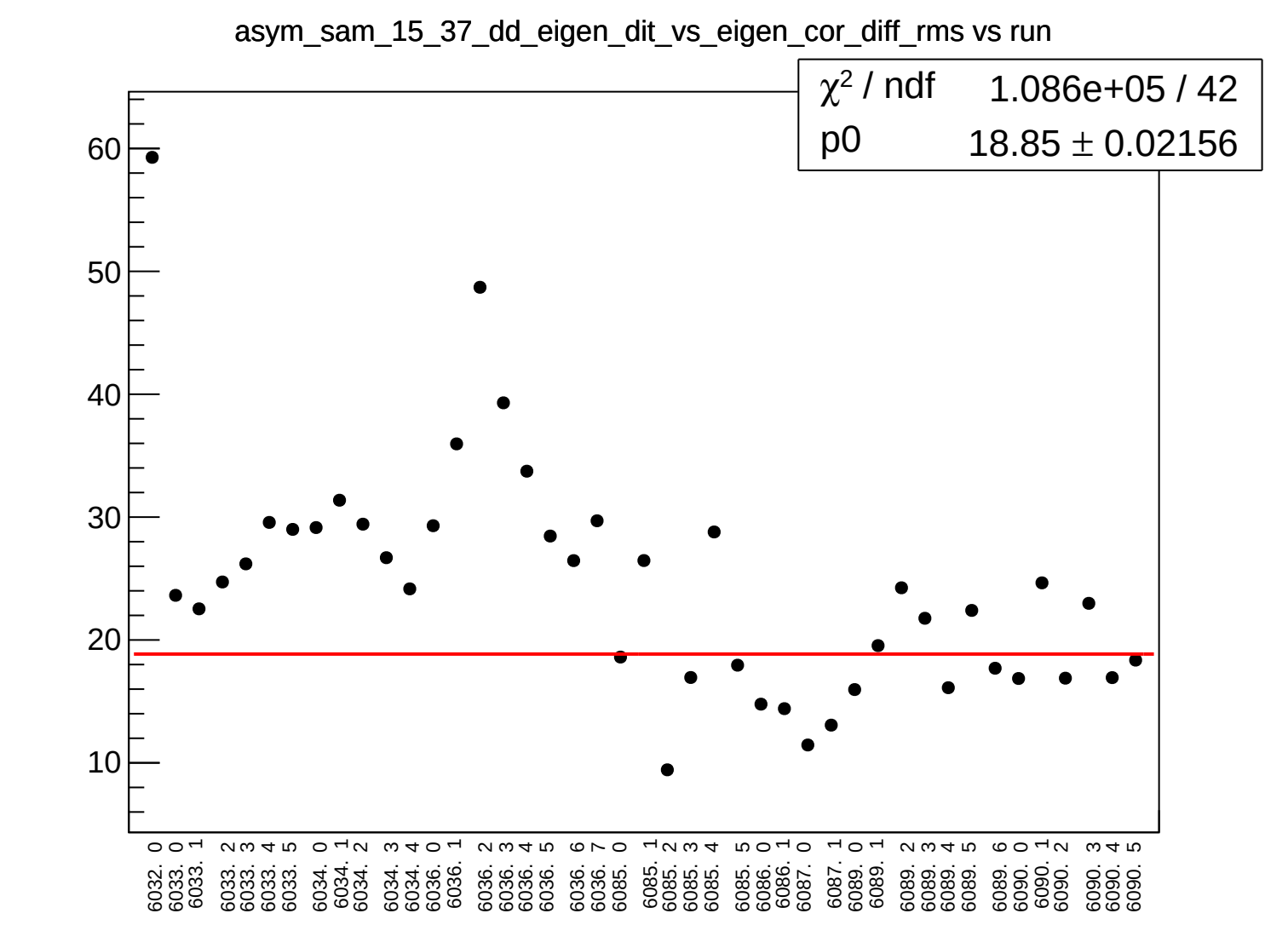

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 42
p0 18.85 ± 0.02156
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

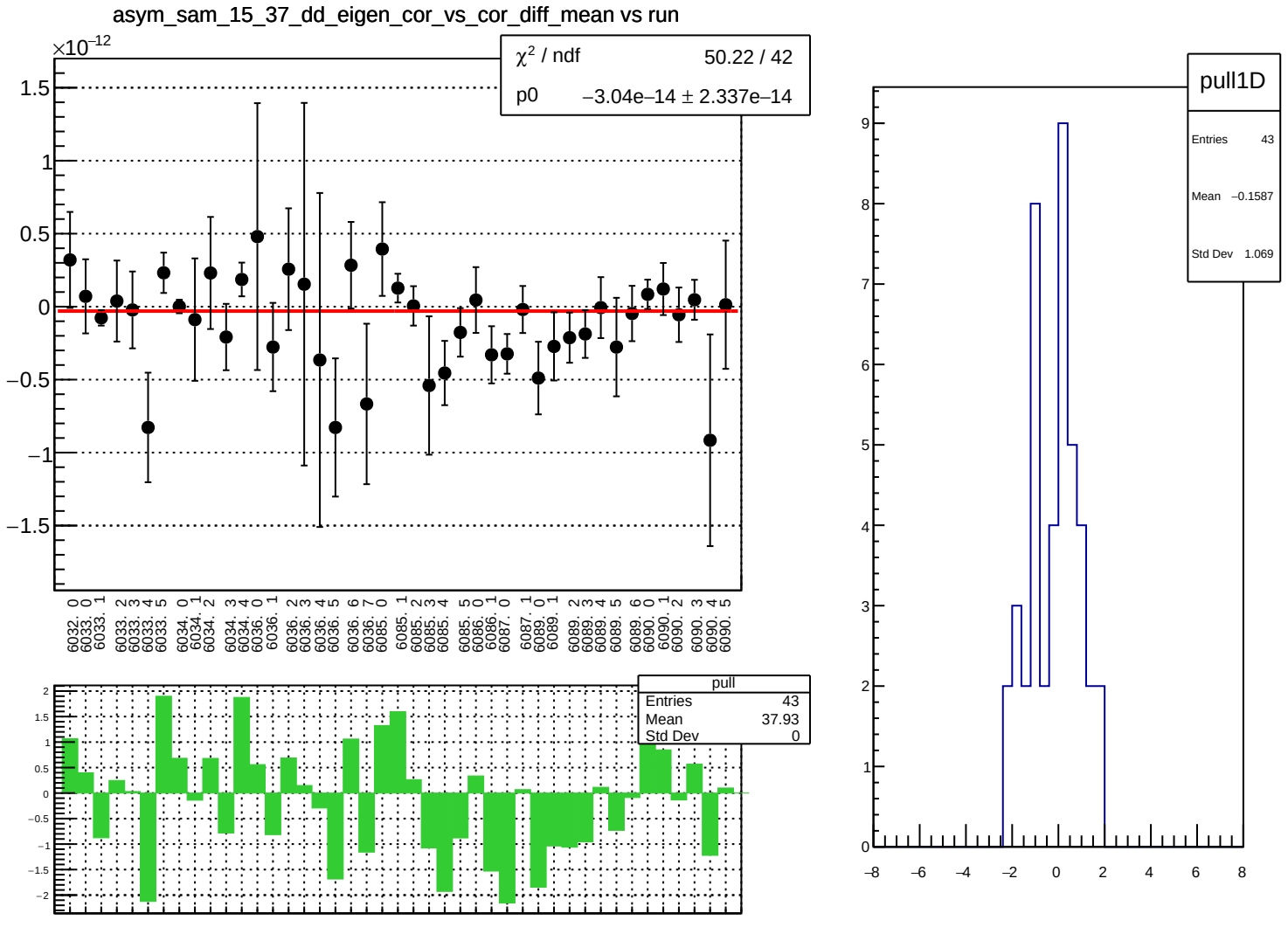
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

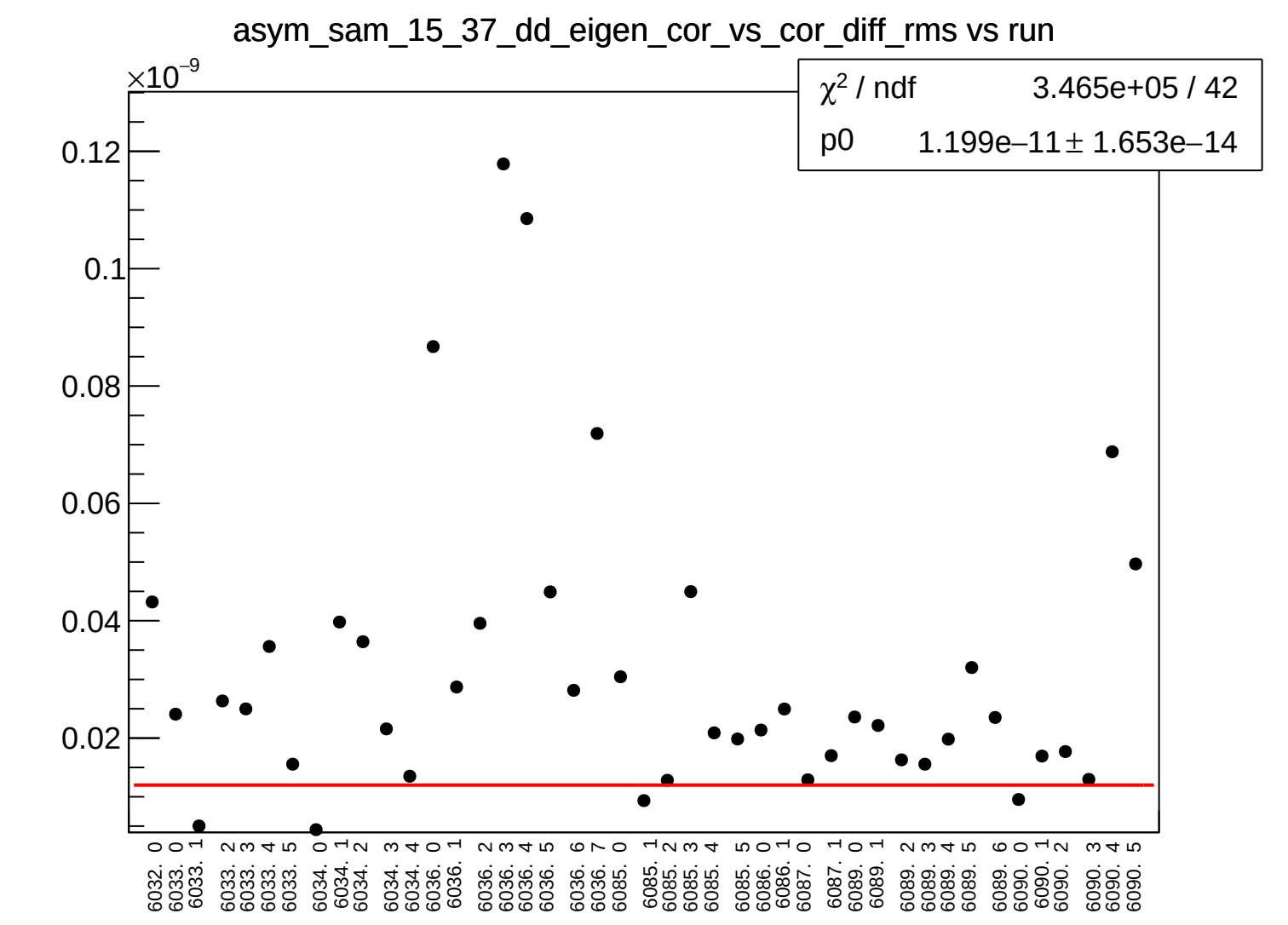


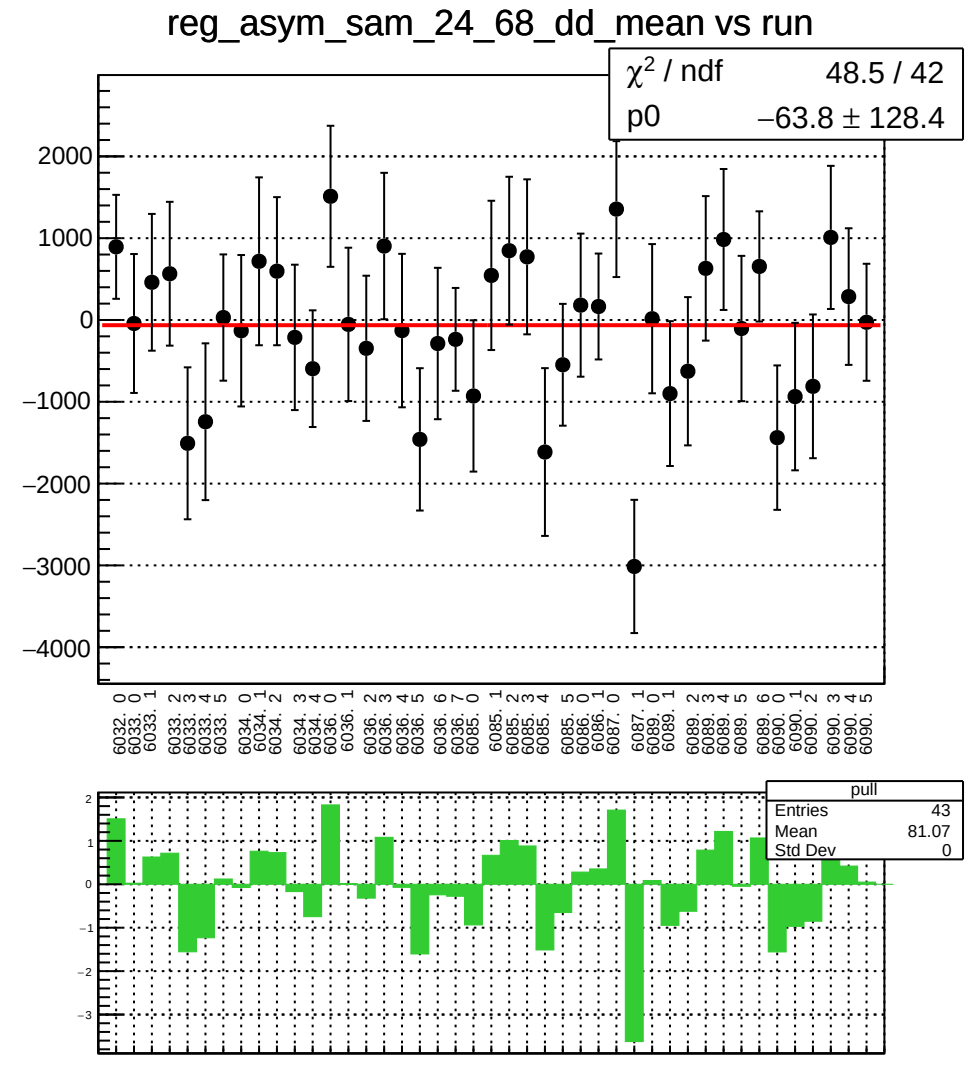


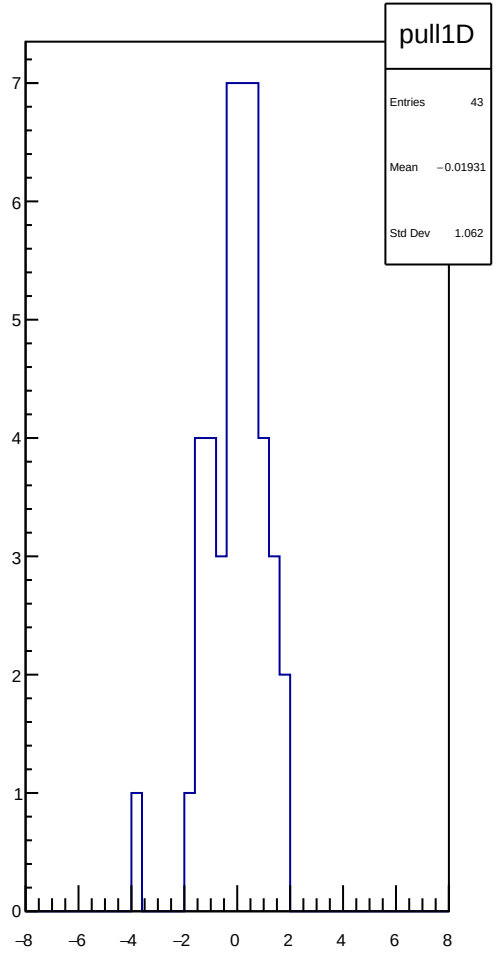


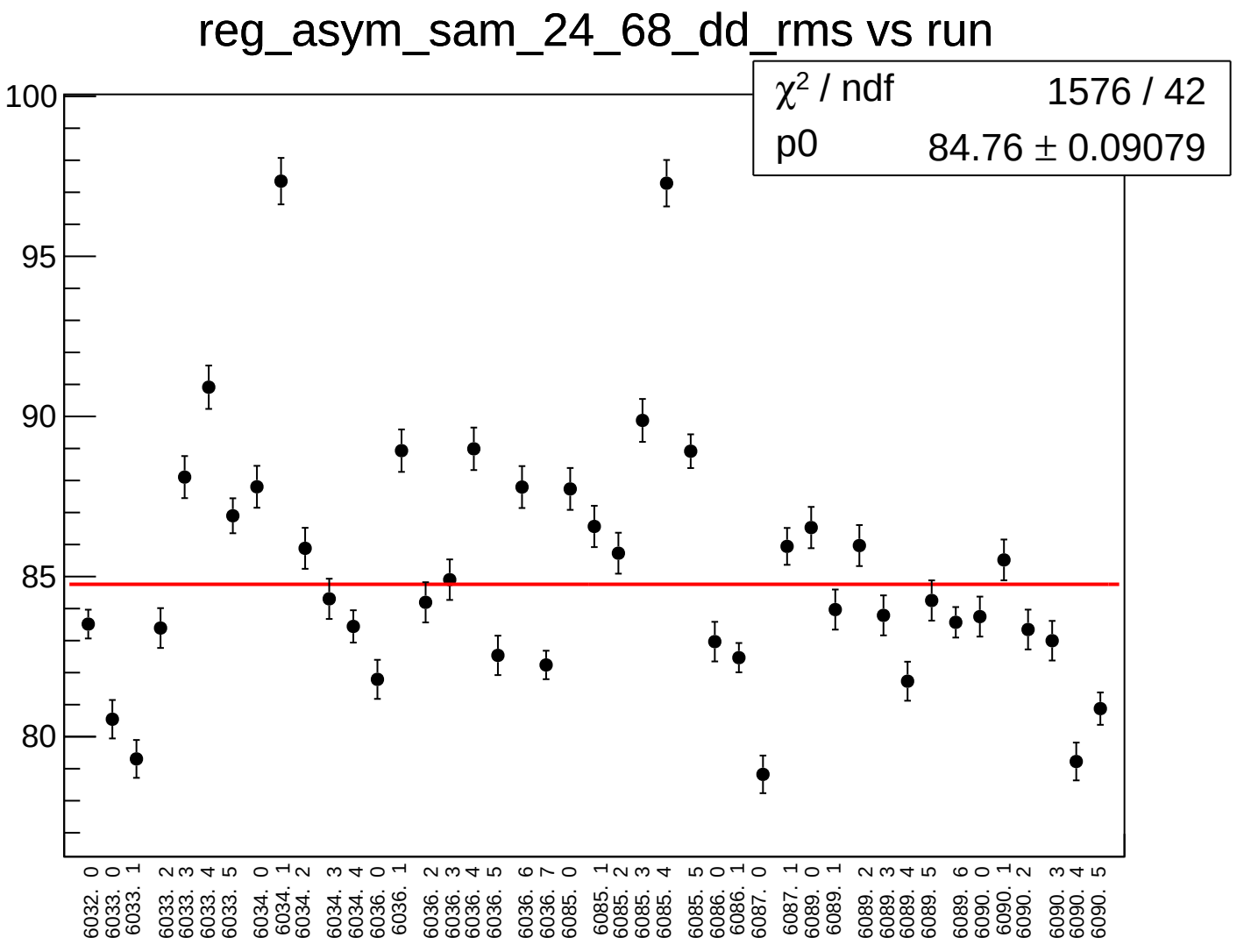

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.086e+05 / 42
p0 18.85 ± 0.02156
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

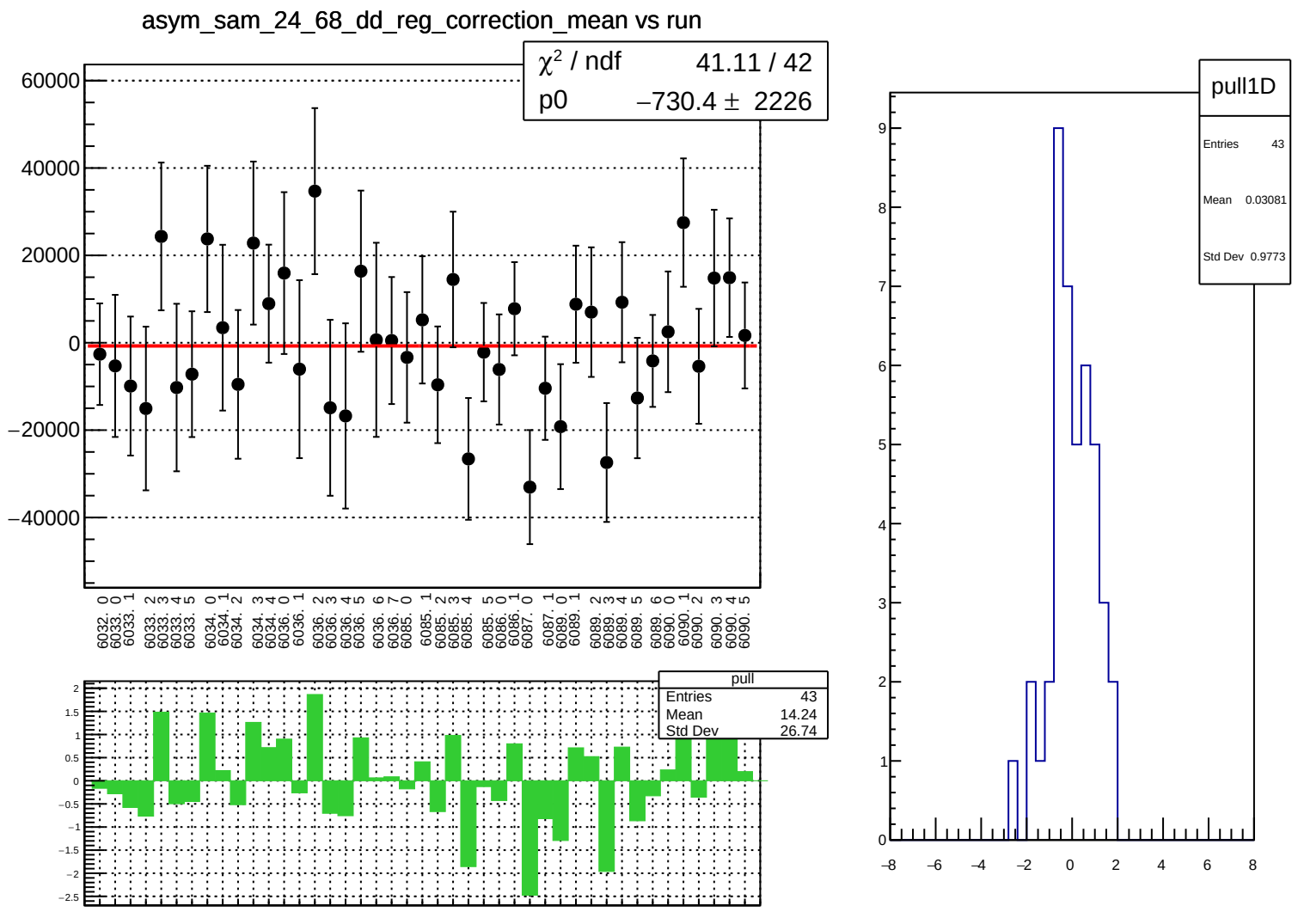

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 50.22 / 42
p0 −3.04e−14 ± 2.337e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 37.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1587
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

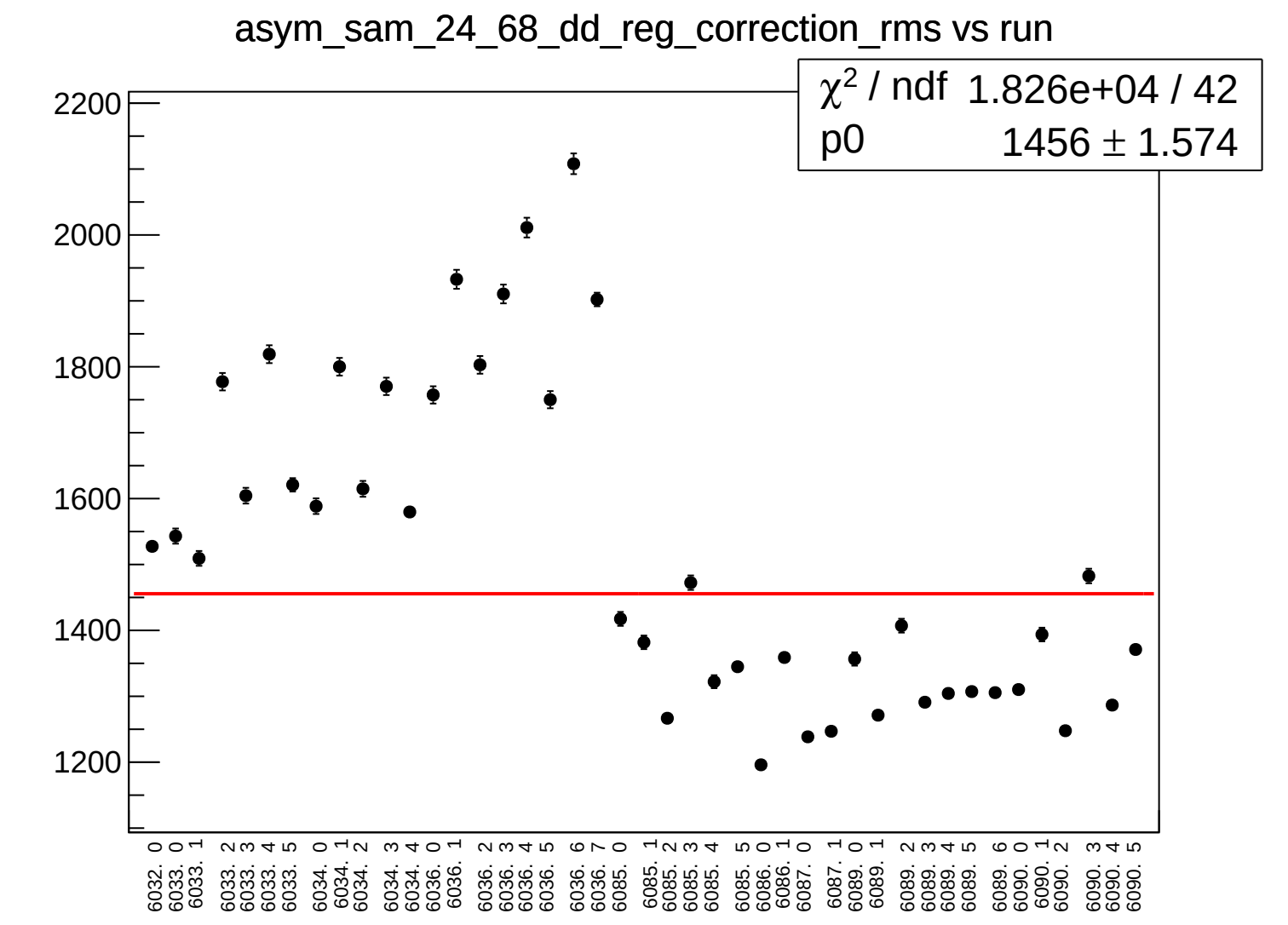

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.465e+05 / 42
p0 1.199e−11 ± 1.653e−14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

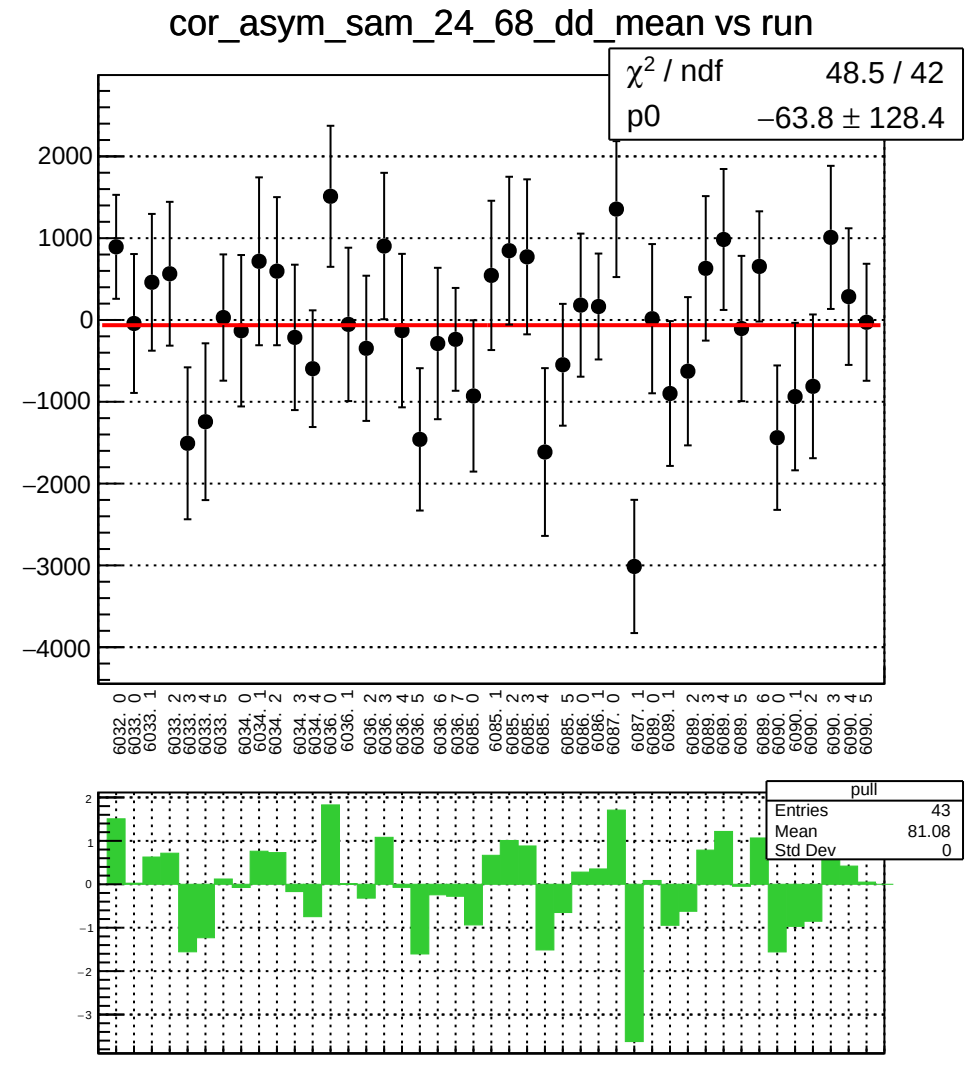

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 48.5 / 42
p0 −63.8 ± 128.4
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 81.07
Std Dev 0
2
1
0
−1
−2
−3

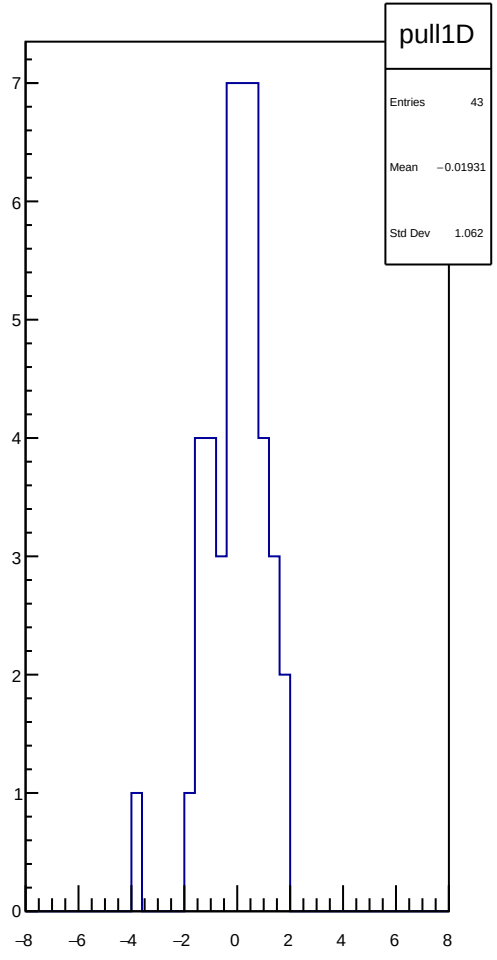

pull1D
Entries 43
Mean −0.01931
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

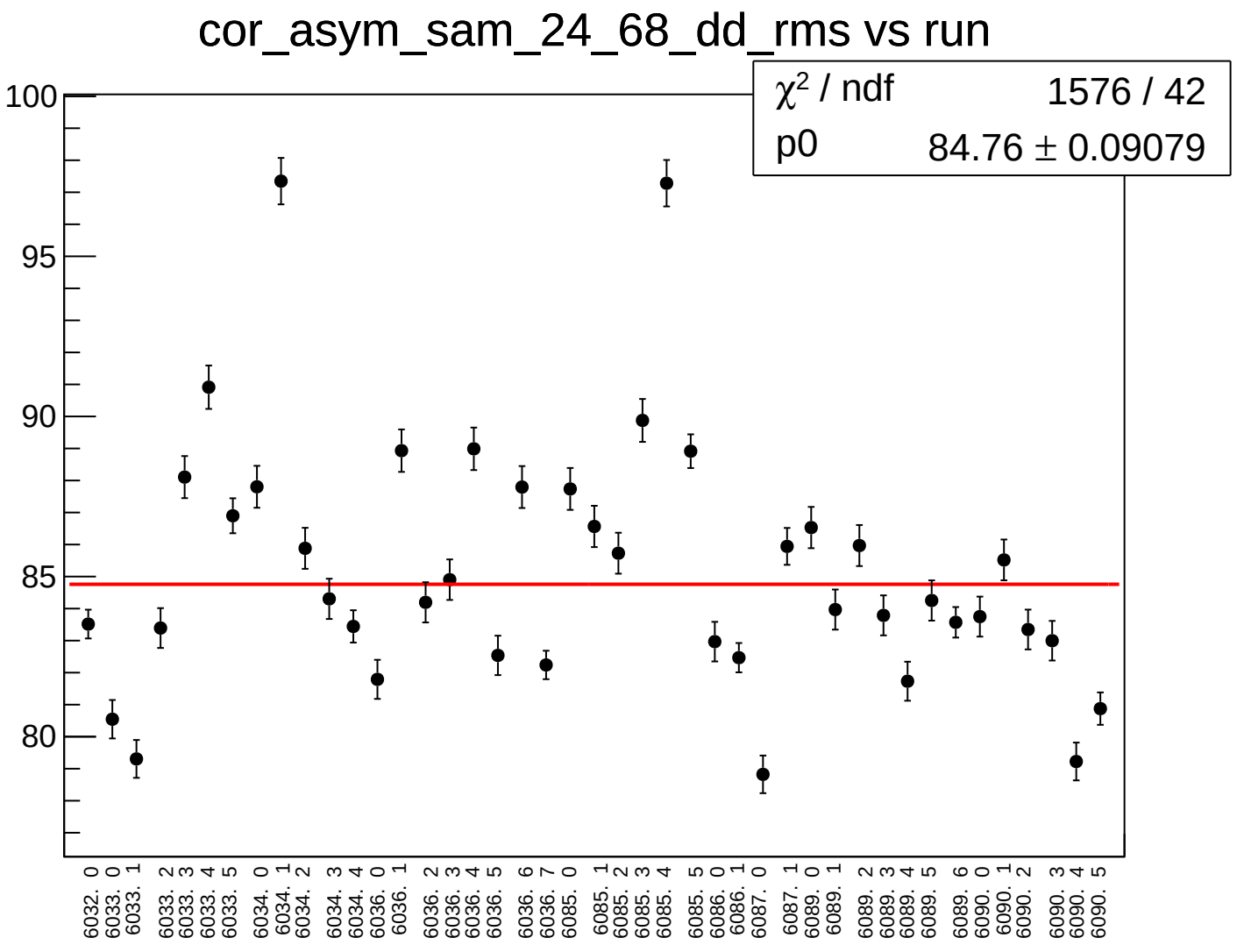

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1576 / 42
p0 84.76 ± 0.09079
100
95
90
85
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

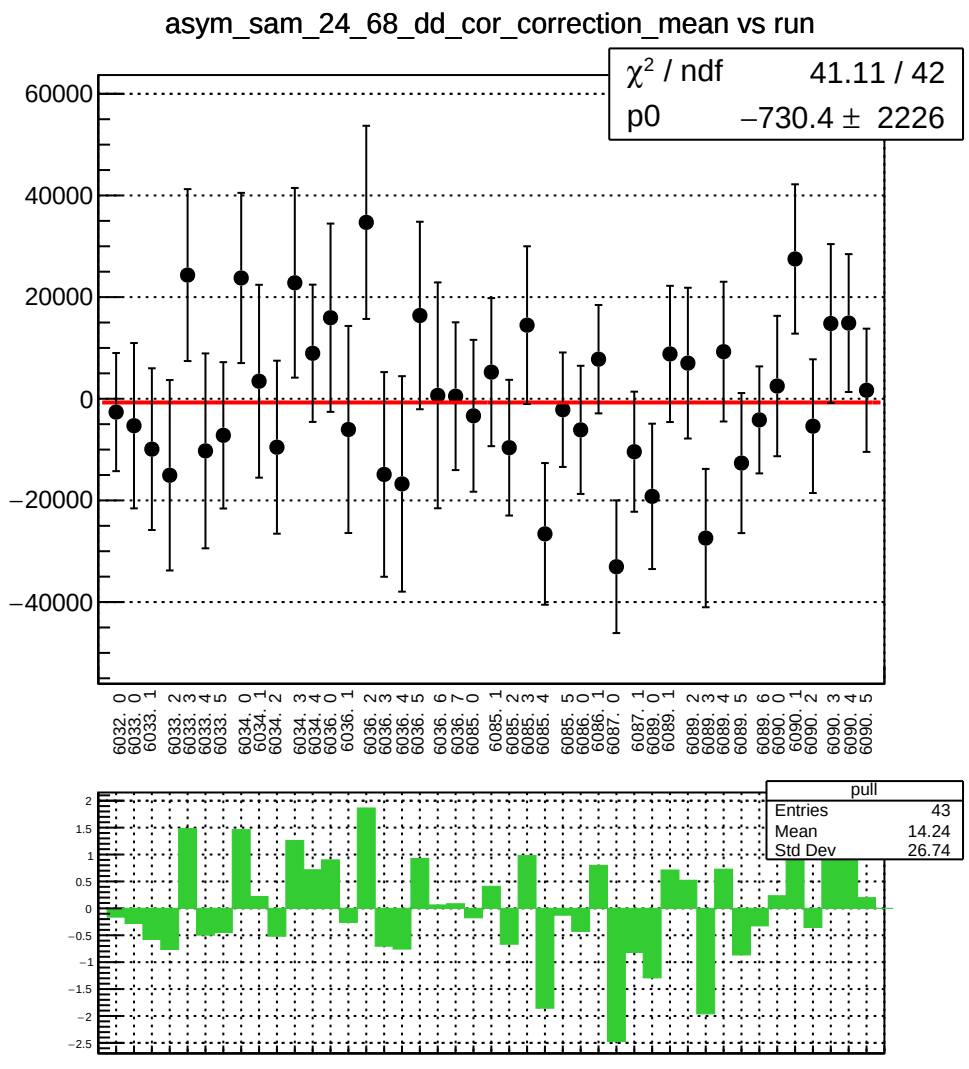

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 41.11 / 42
p0 −730.4 ± 2226
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.24
Std Dev 26.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03081
Std Dev 0.9773
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

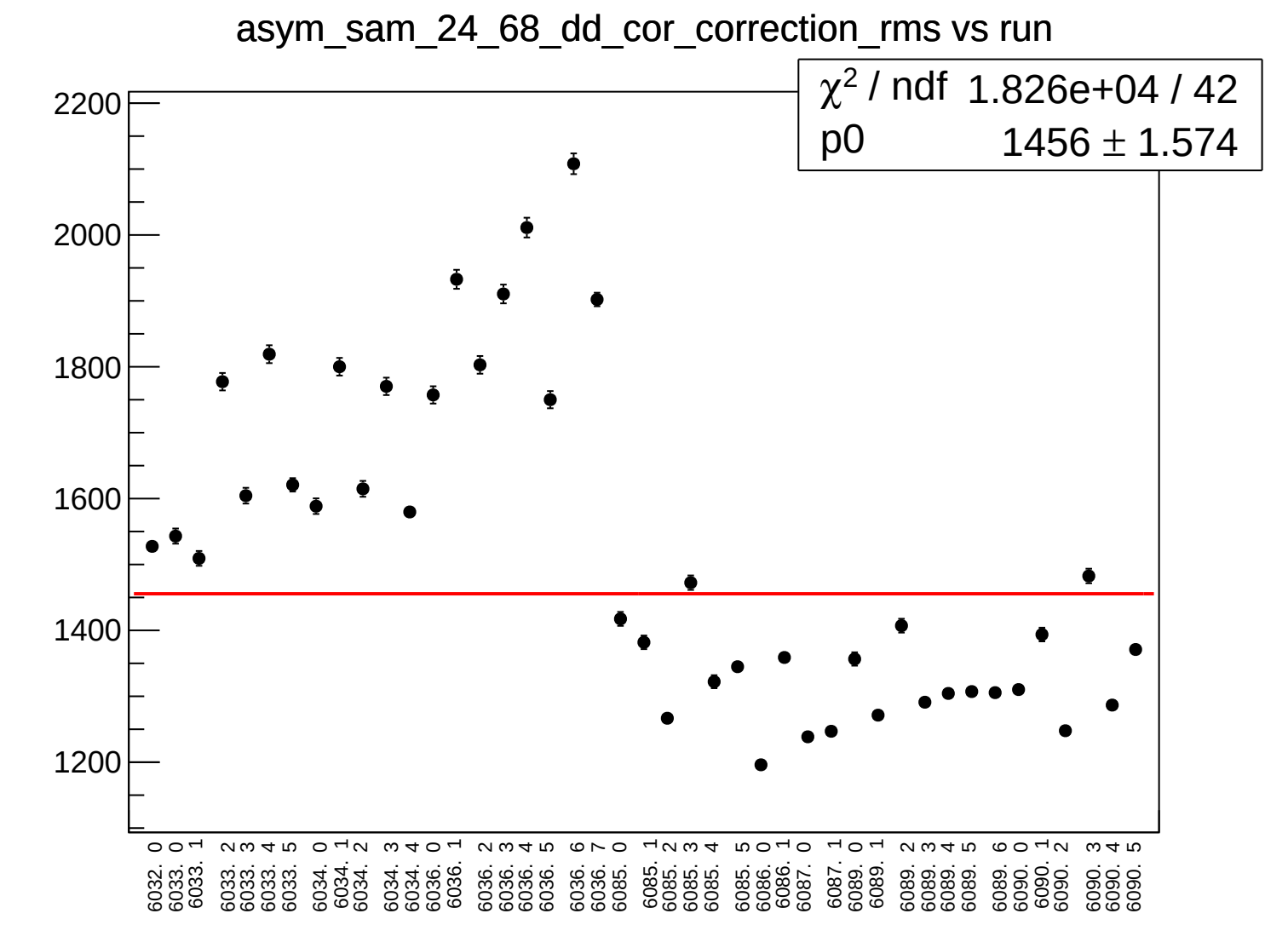

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.826e+04 / 42
p0 1456 ± 1.574
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 48.5 / 42
p0 −63.8 ± 128.4
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 81.08
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.01931
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1576 / 42
p0 84.76 ± 0.09079
100
95
90
85
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 41.11 / 42
p0 −730.4 ± 2226
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.24
Std Dev 26.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03081
Std Dev 0.9773
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.826e+04 / 42
p0 1456 ± 1.574
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
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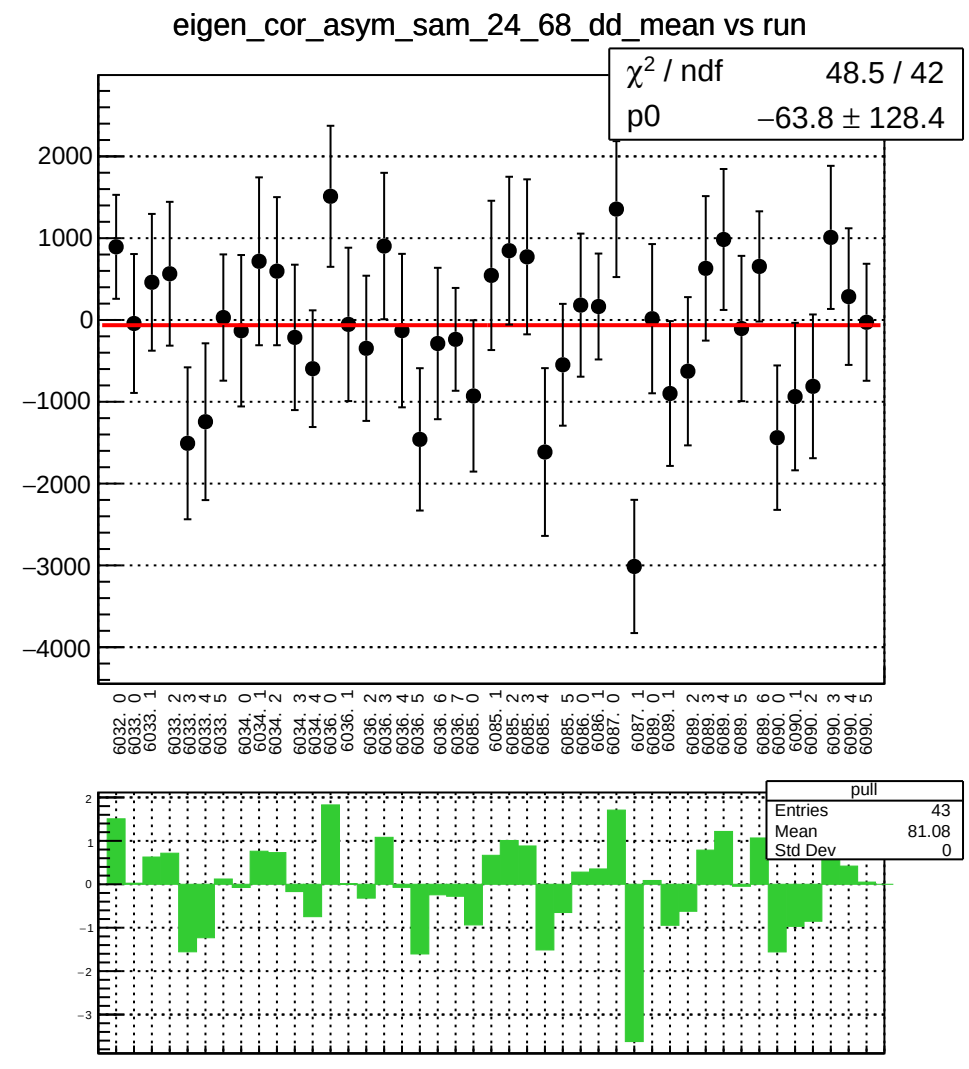
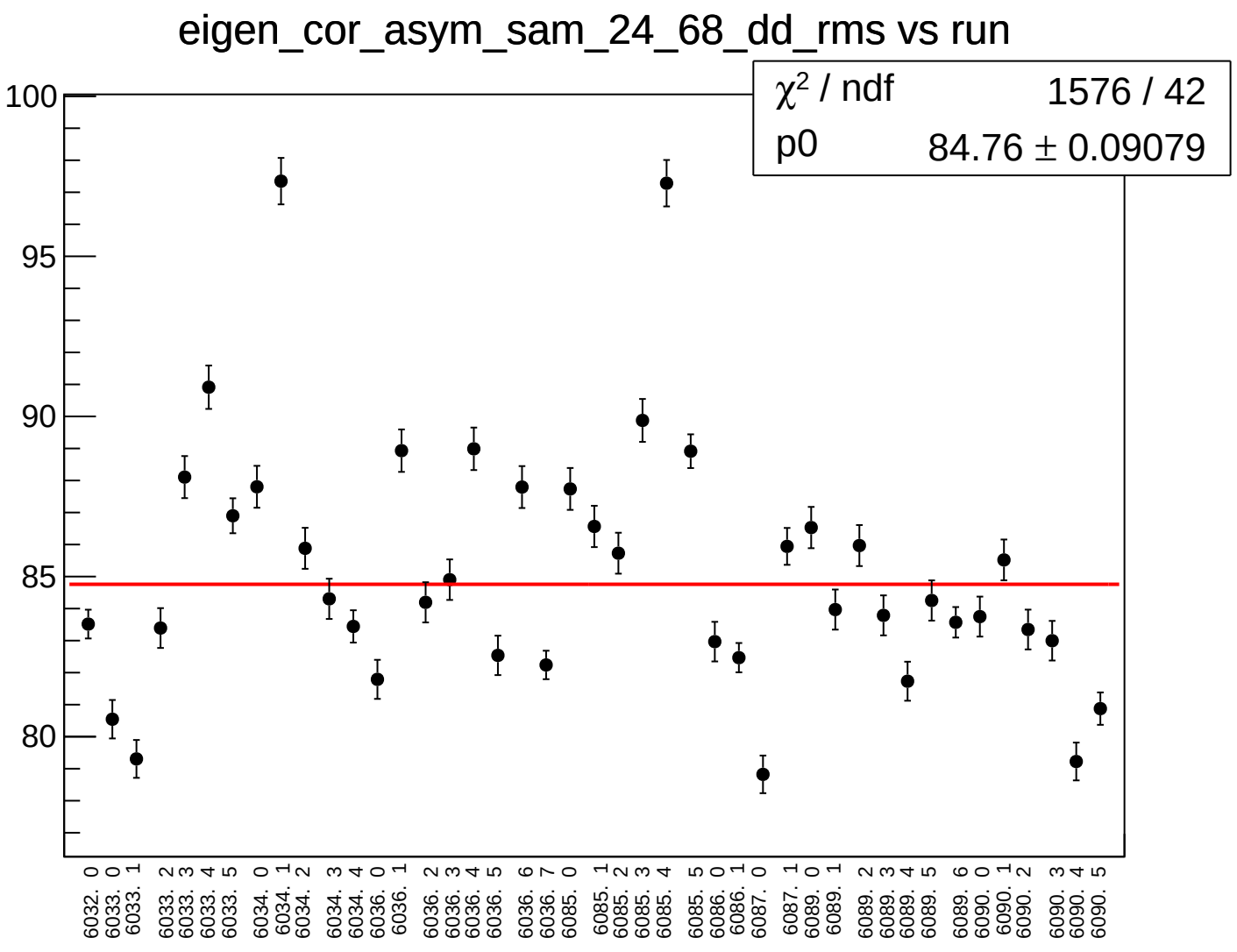
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 48.5 / 42
p0 −63.8 ± 128.4
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 81.08
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01931
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1576 / 42
p0 84.76 ± 0.09079
100
95
90
85
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
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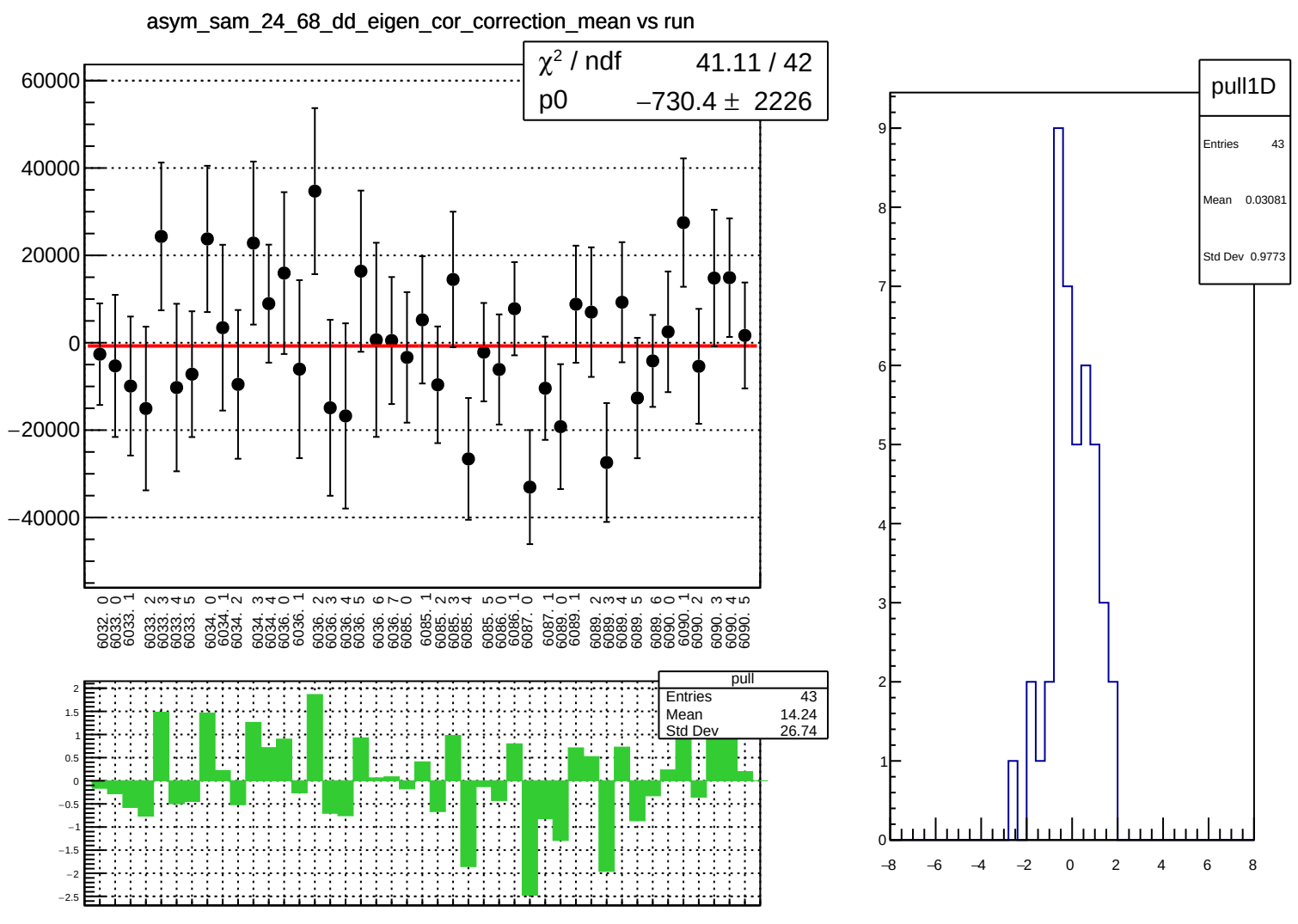
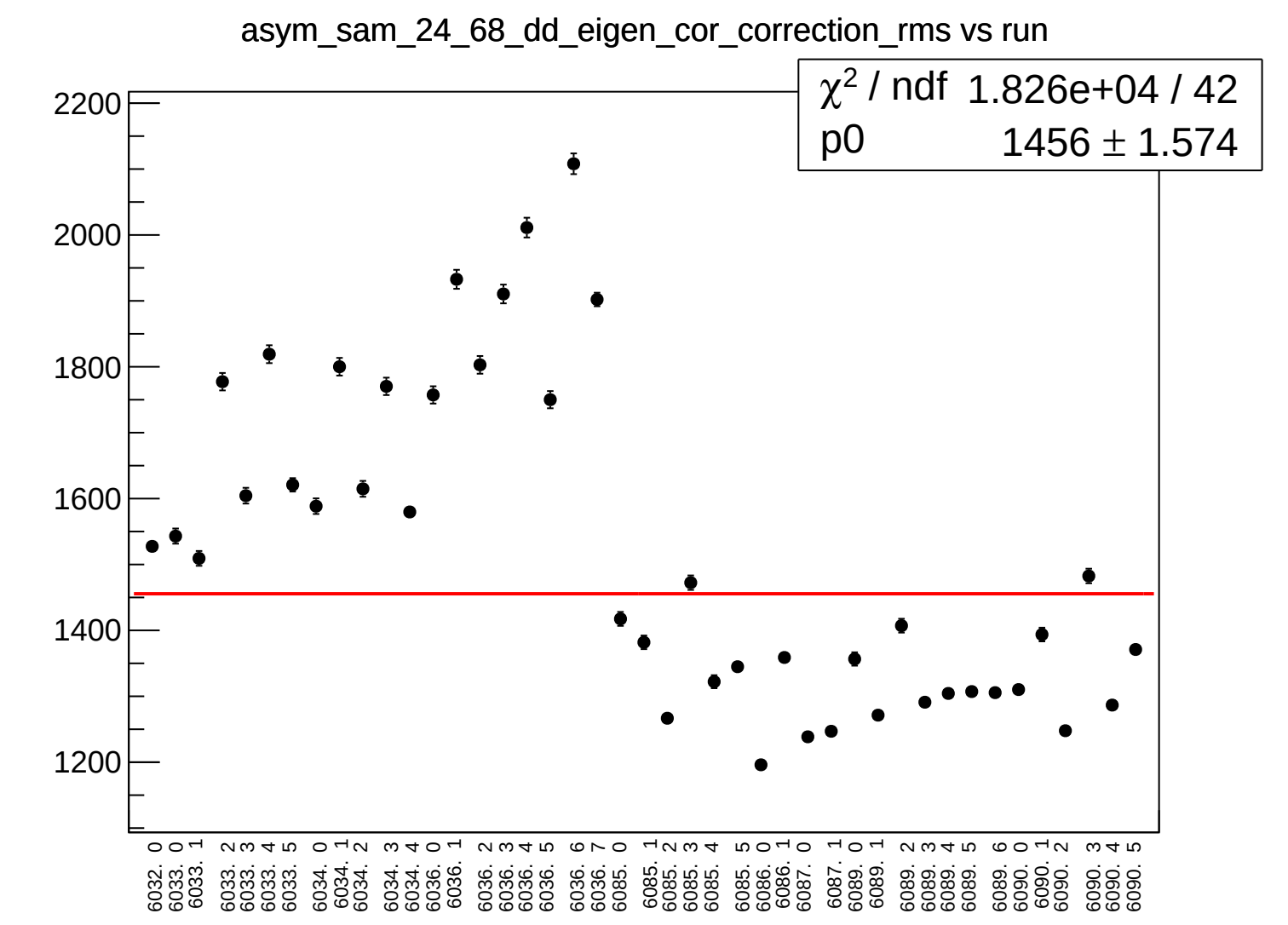
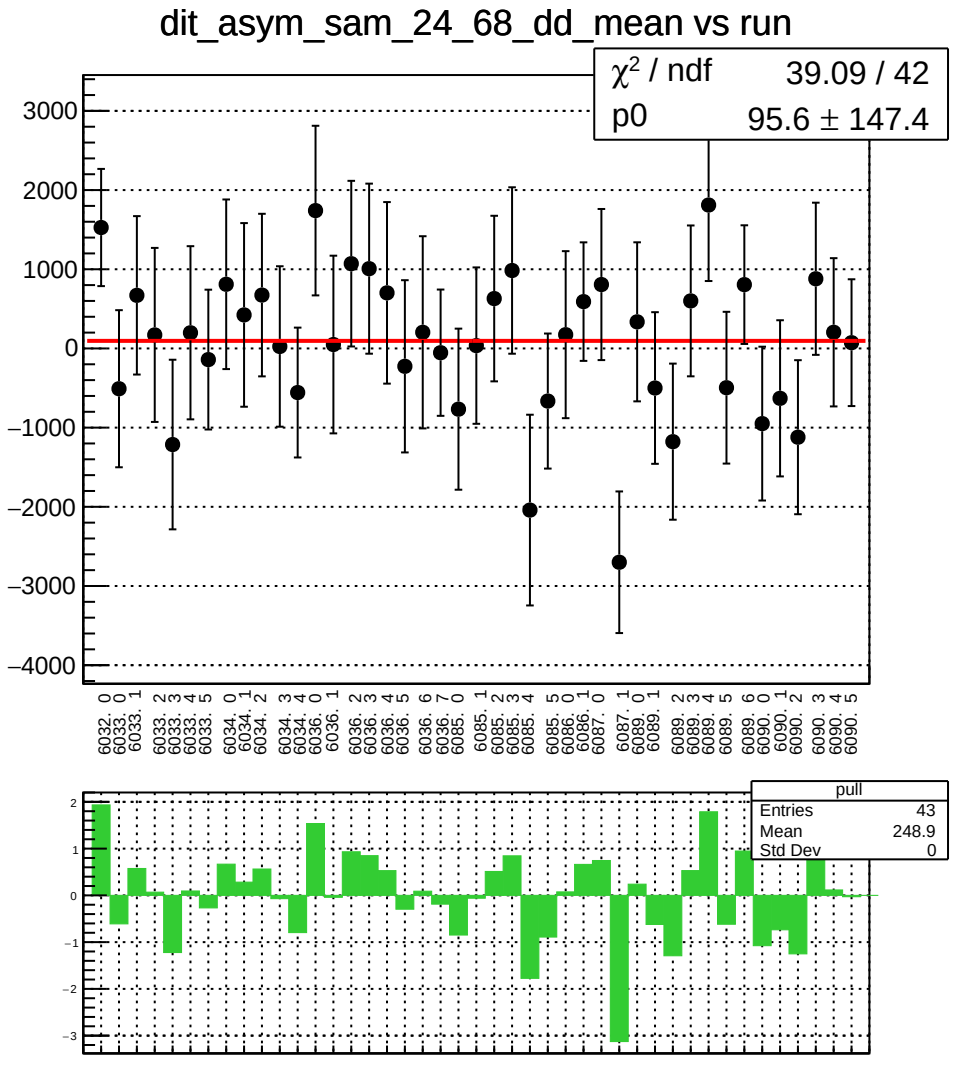
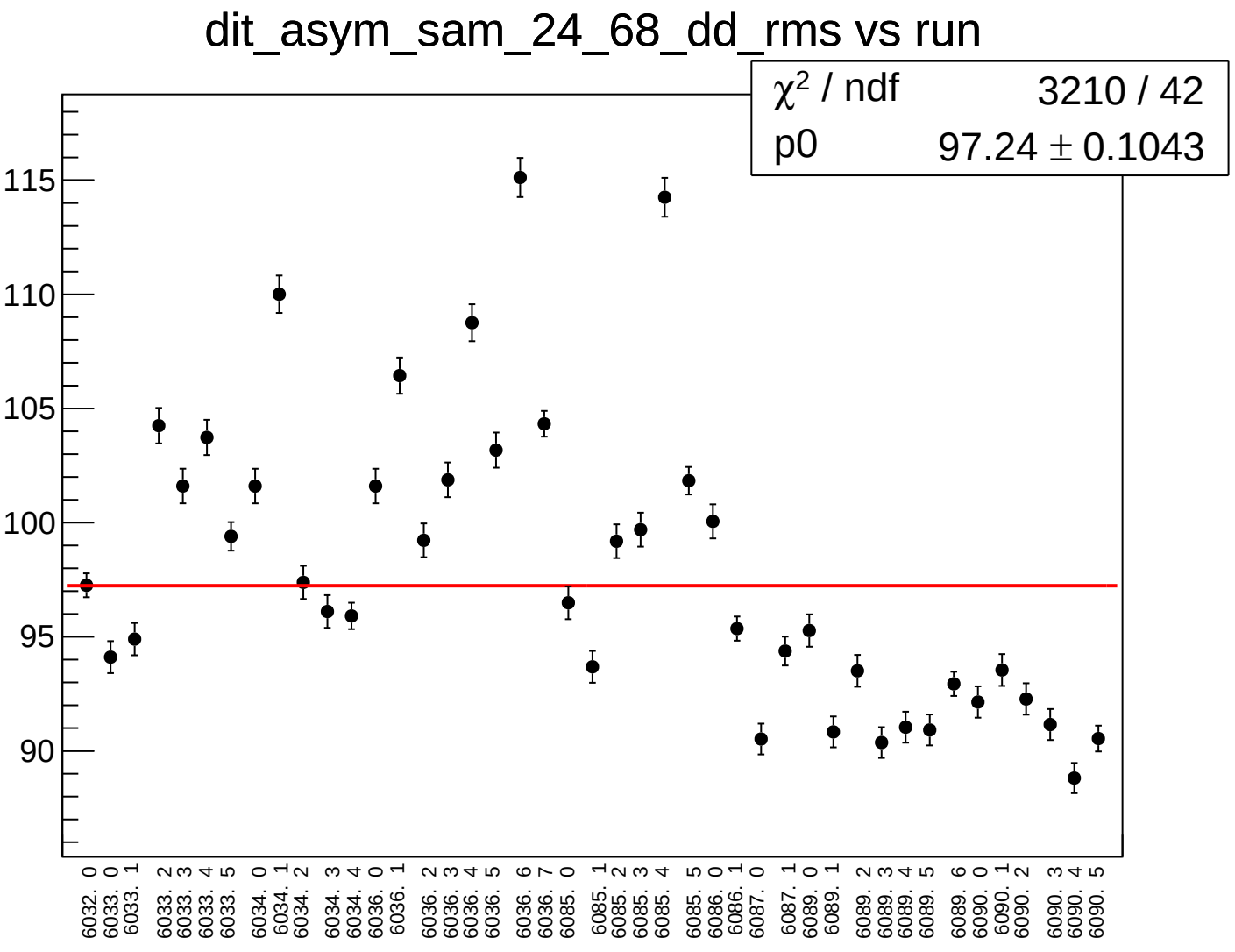
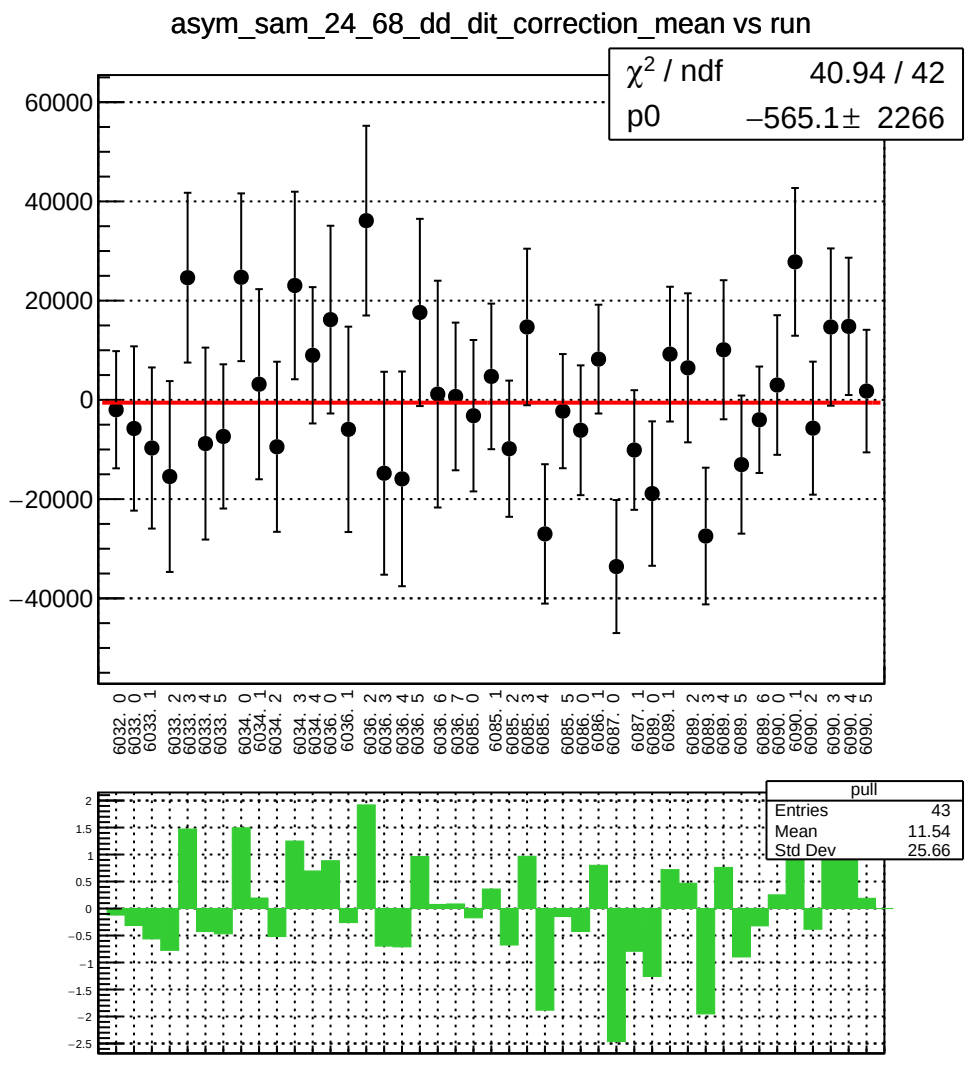
6090. 2
6090. 3
6090. 4
6090. 5

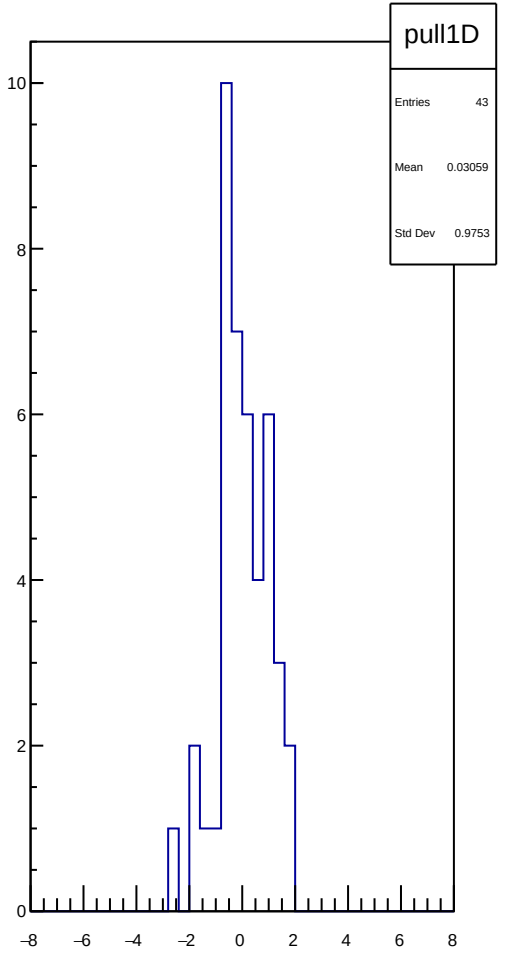

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 41.11 / 42
p0 −730.4 ± 2226
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.24
Std Dev 26.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03081
Std Dev 0.9773
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

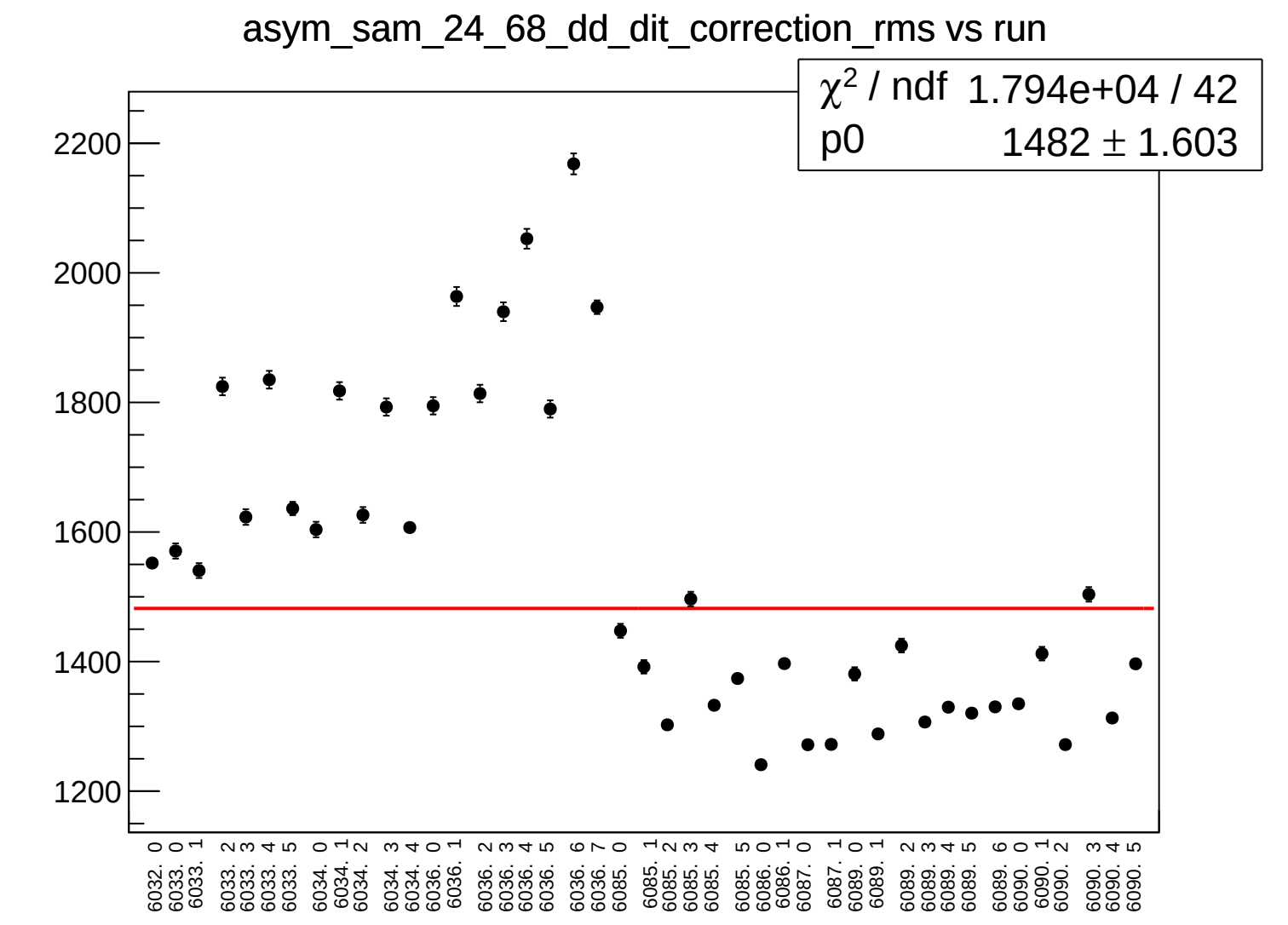

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.826e+04 / 42
p0 1456 ± 1.574
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

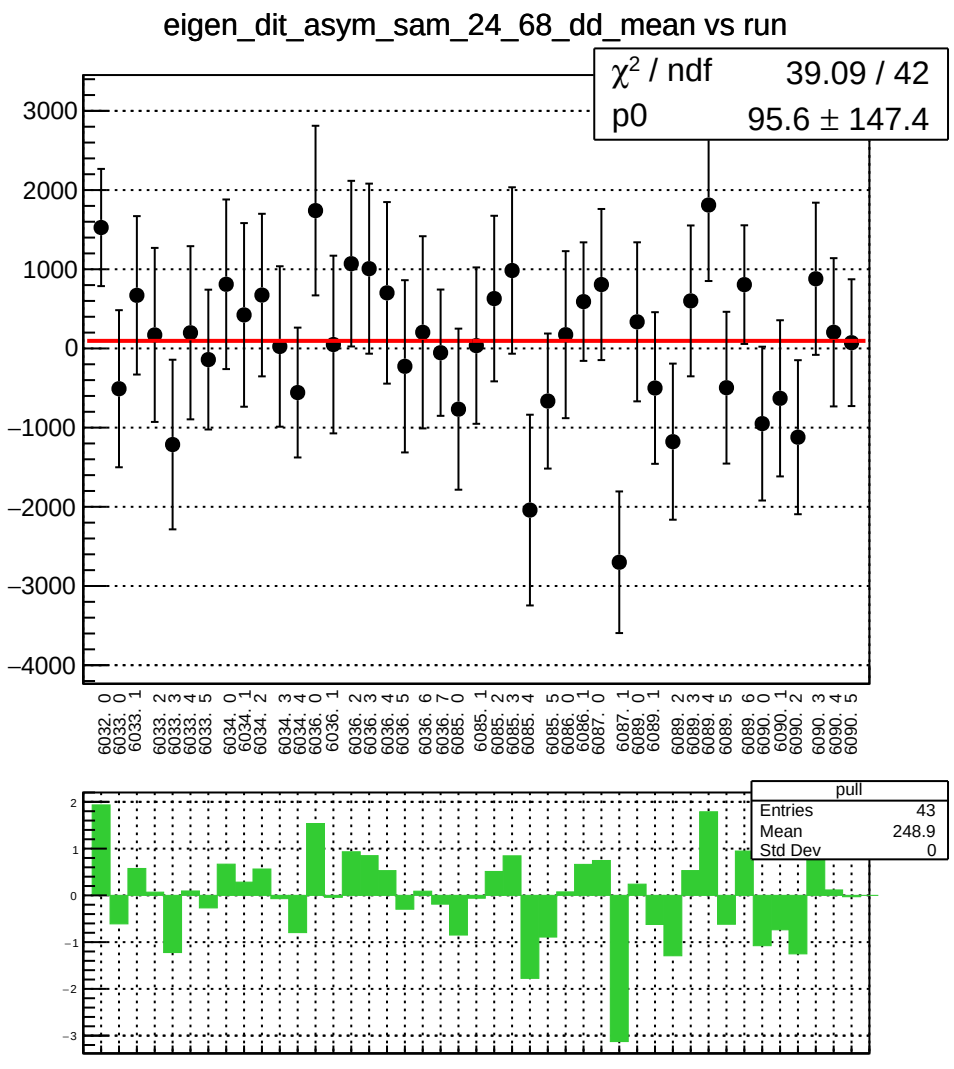

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 39.09 / 42
p0 95.6 ± 147.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 248.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.009635
Std Dev 0.9535
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

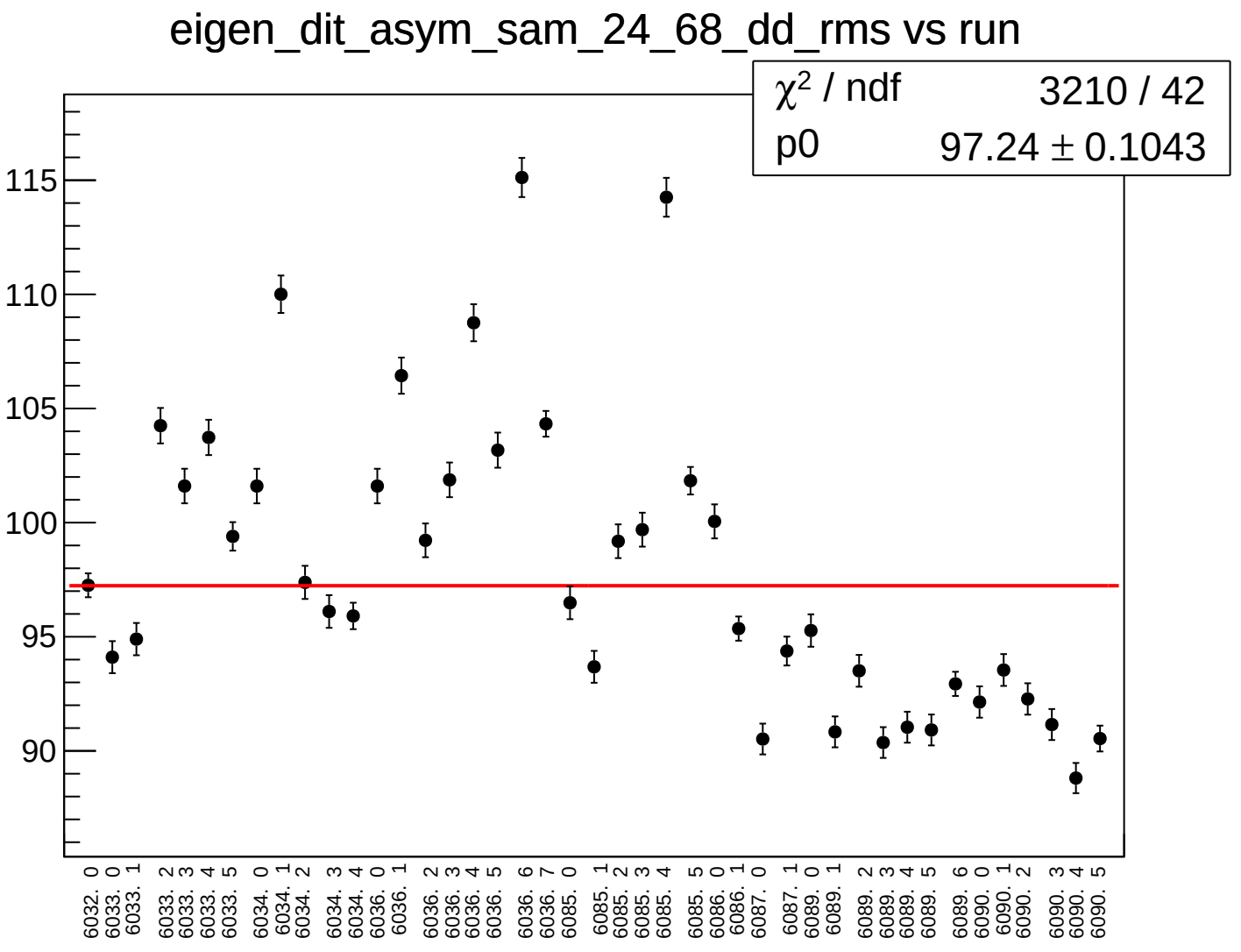

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3210 / 42
p0 97.24 ± 0.1043
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

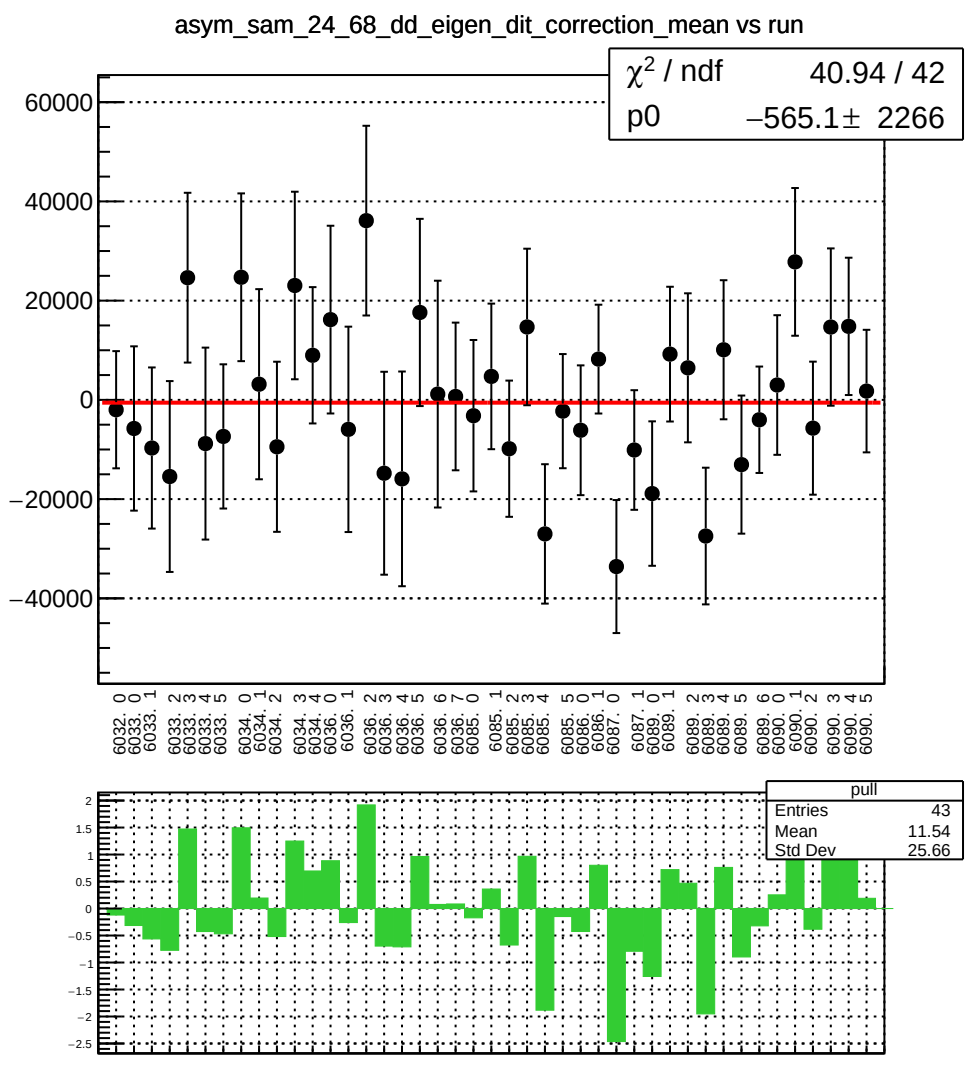

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 40.94 / 42
p0 −565.1± 2266
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.54
Std Dev 25.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

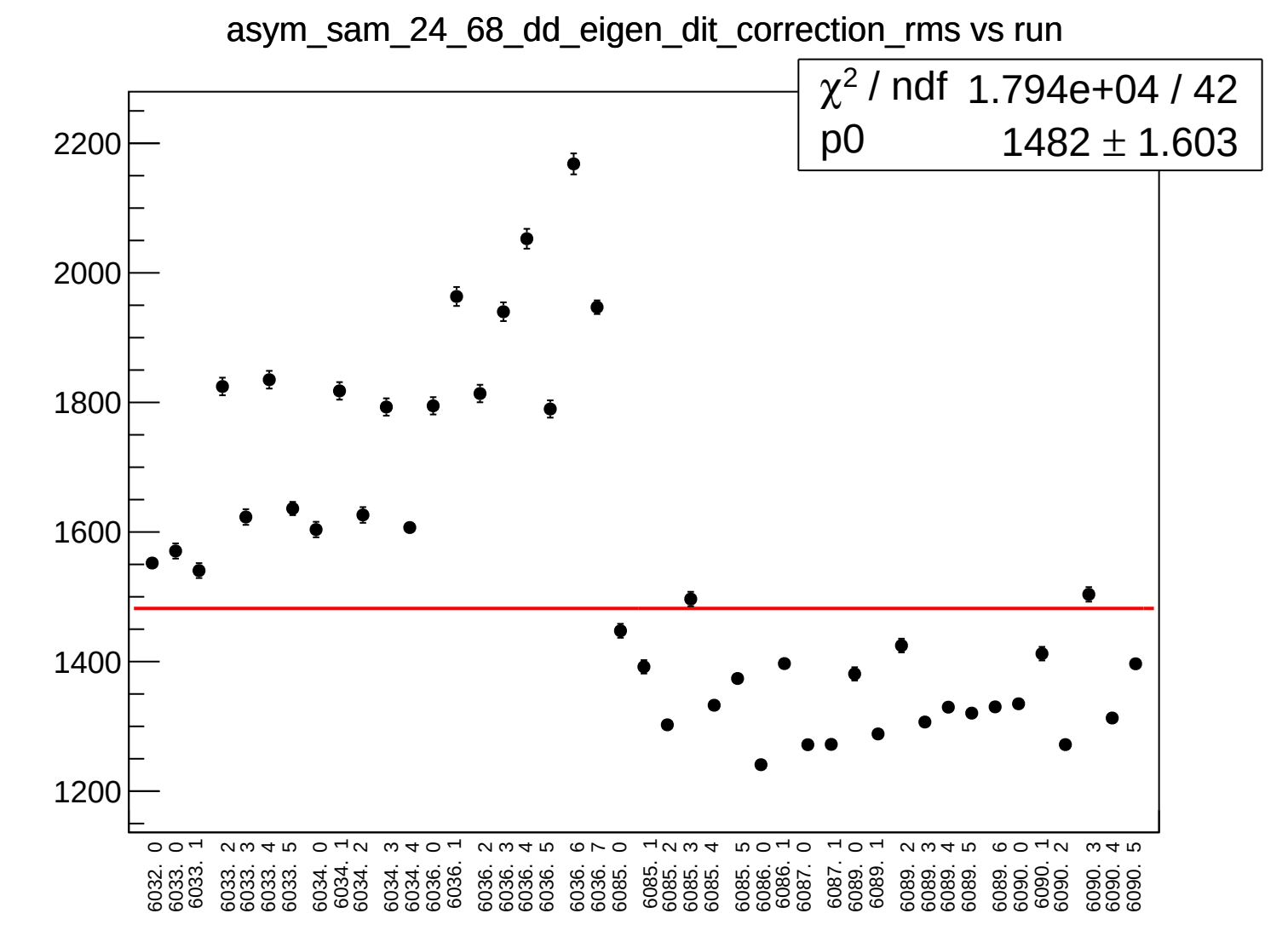

pull1D
Entries 43
Mean 0.03059
Std Dev 0.9753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

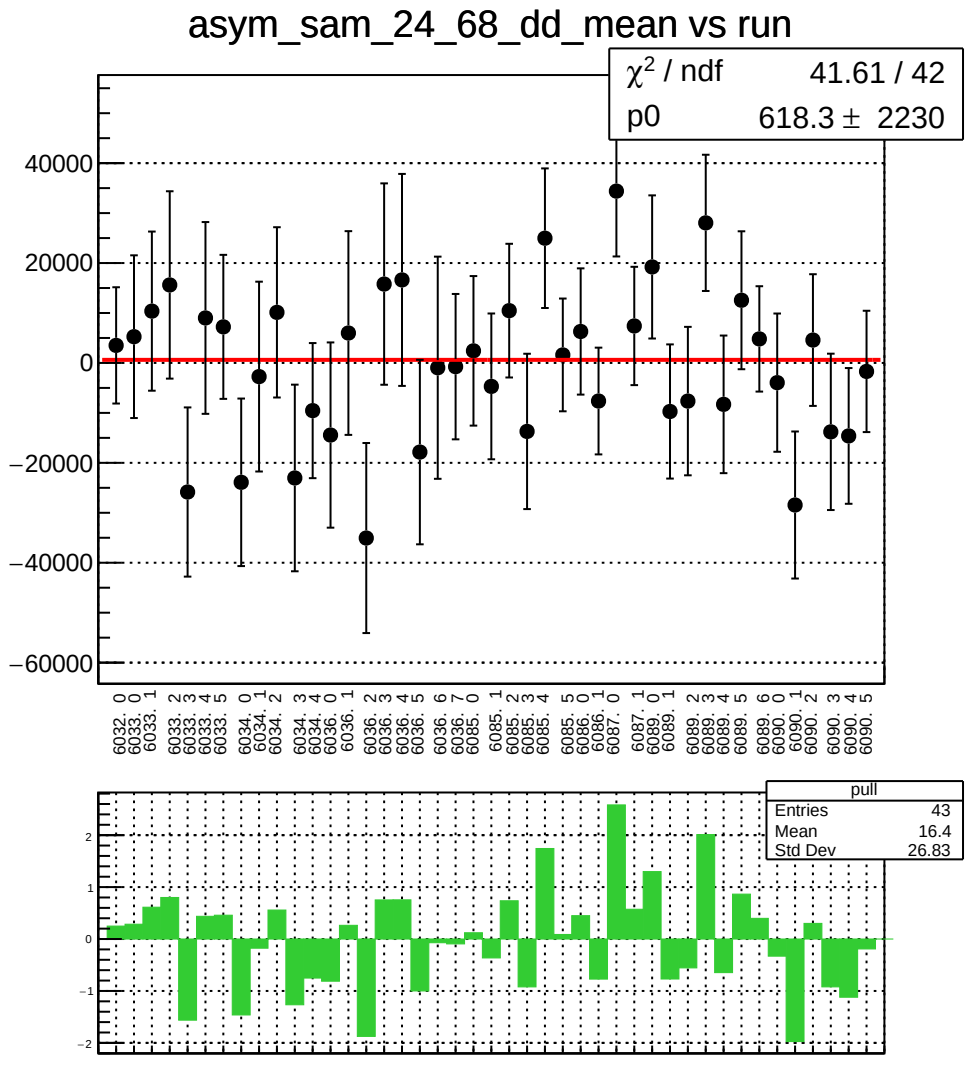

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.794e+04 / 42
p0 1482 ± 1.603
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

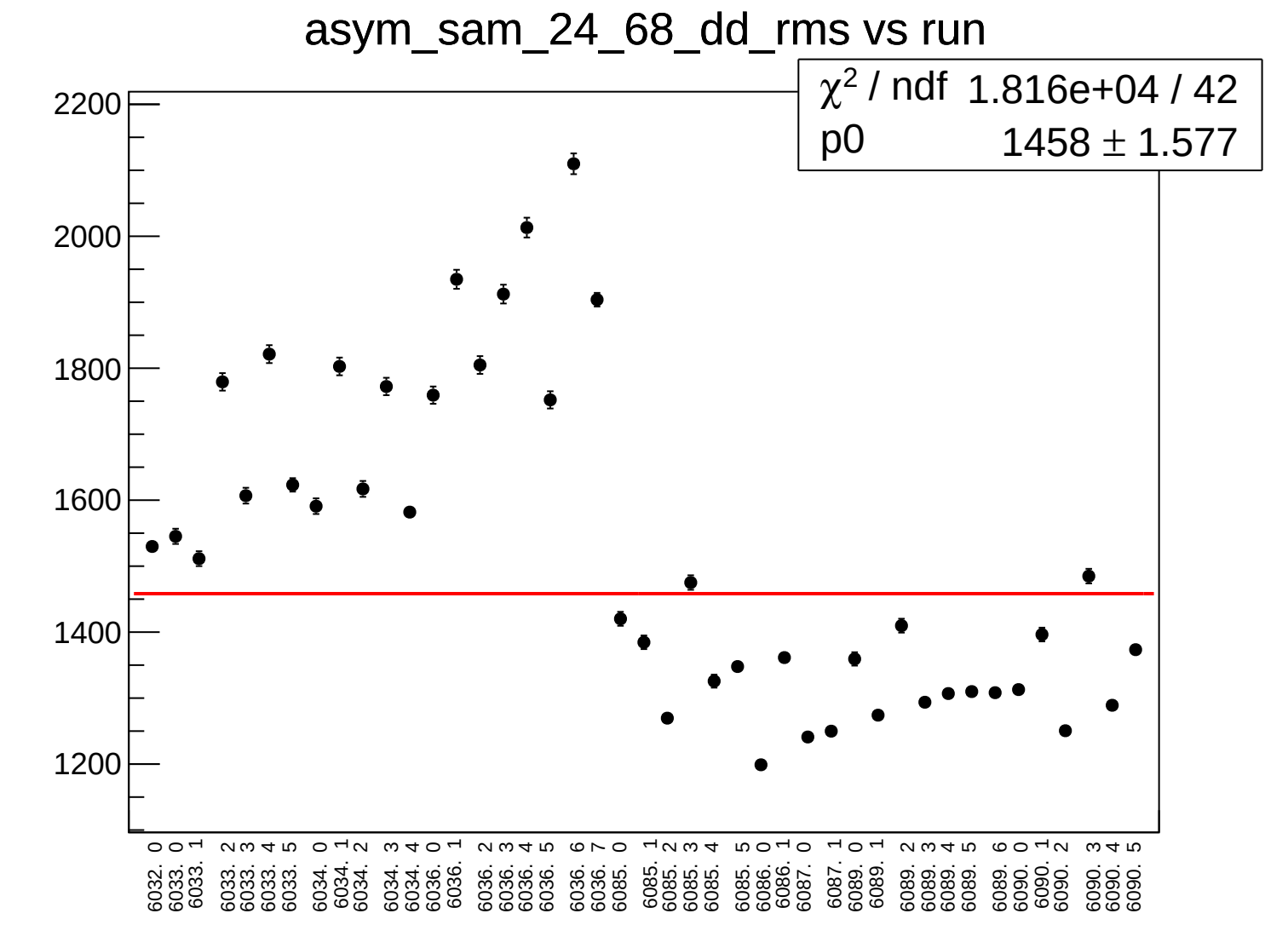

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 39.09 / 42
p0 95.6 ± 147.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 248.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.009636
Std Dev 0.9535
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

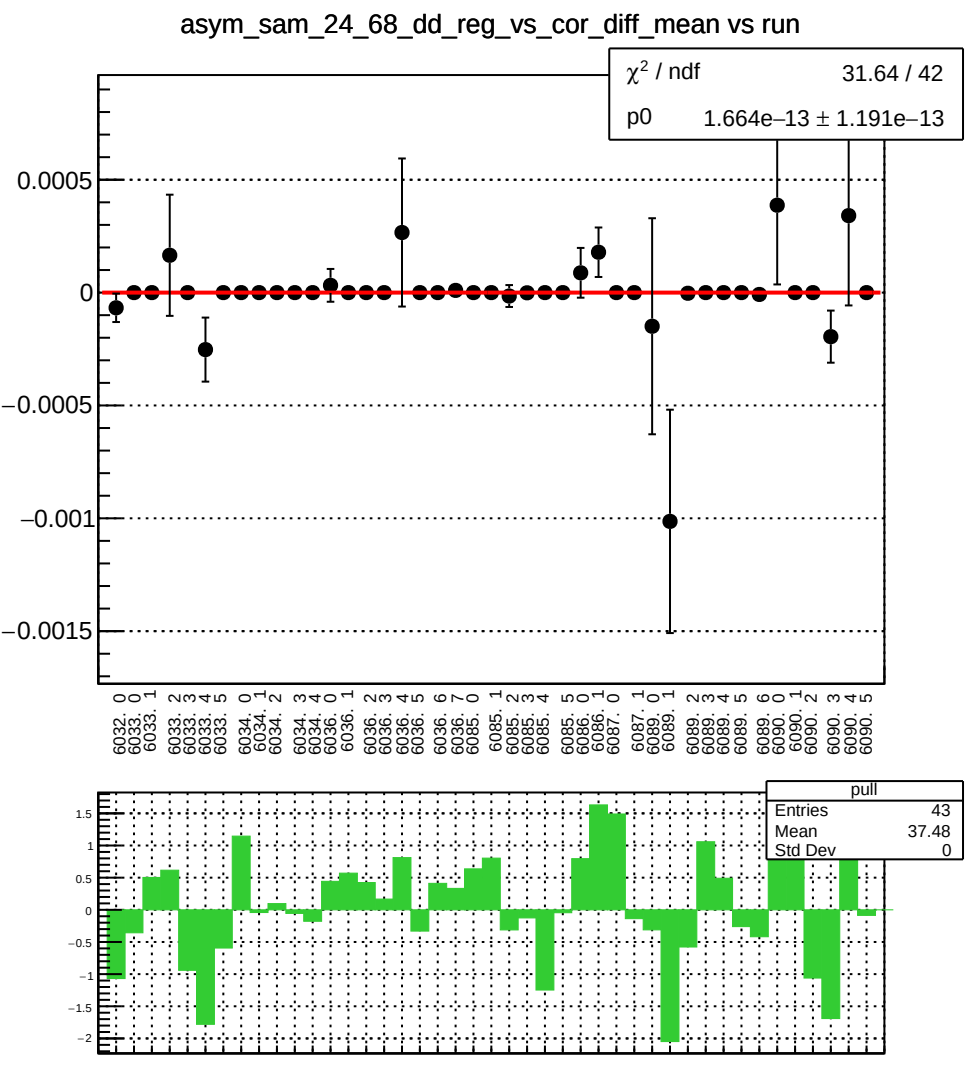

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3210 / 42
p0 97.24 ± 0.1043
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

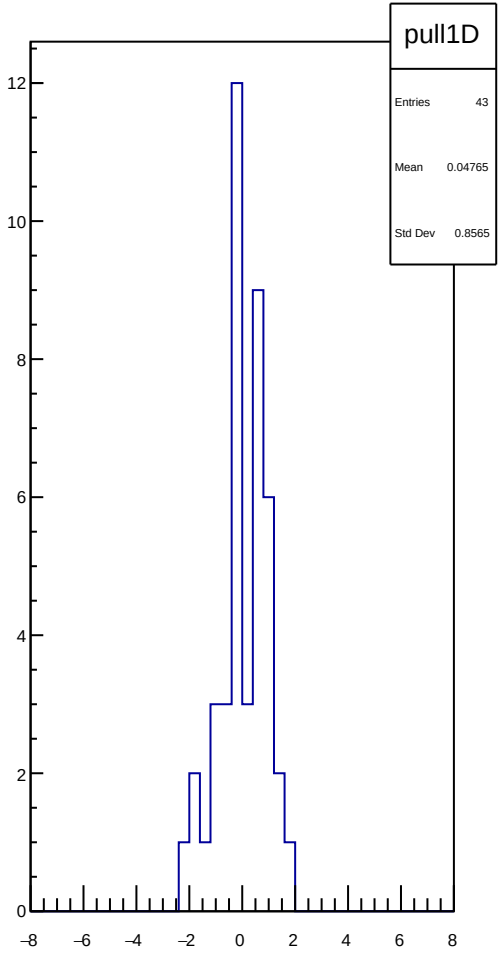

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.94 / 42
p0 −565.1± 2266
60000
40000
20000
0
−20000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.54
Std Dev 25.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03059
Std Dev 0.9753
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

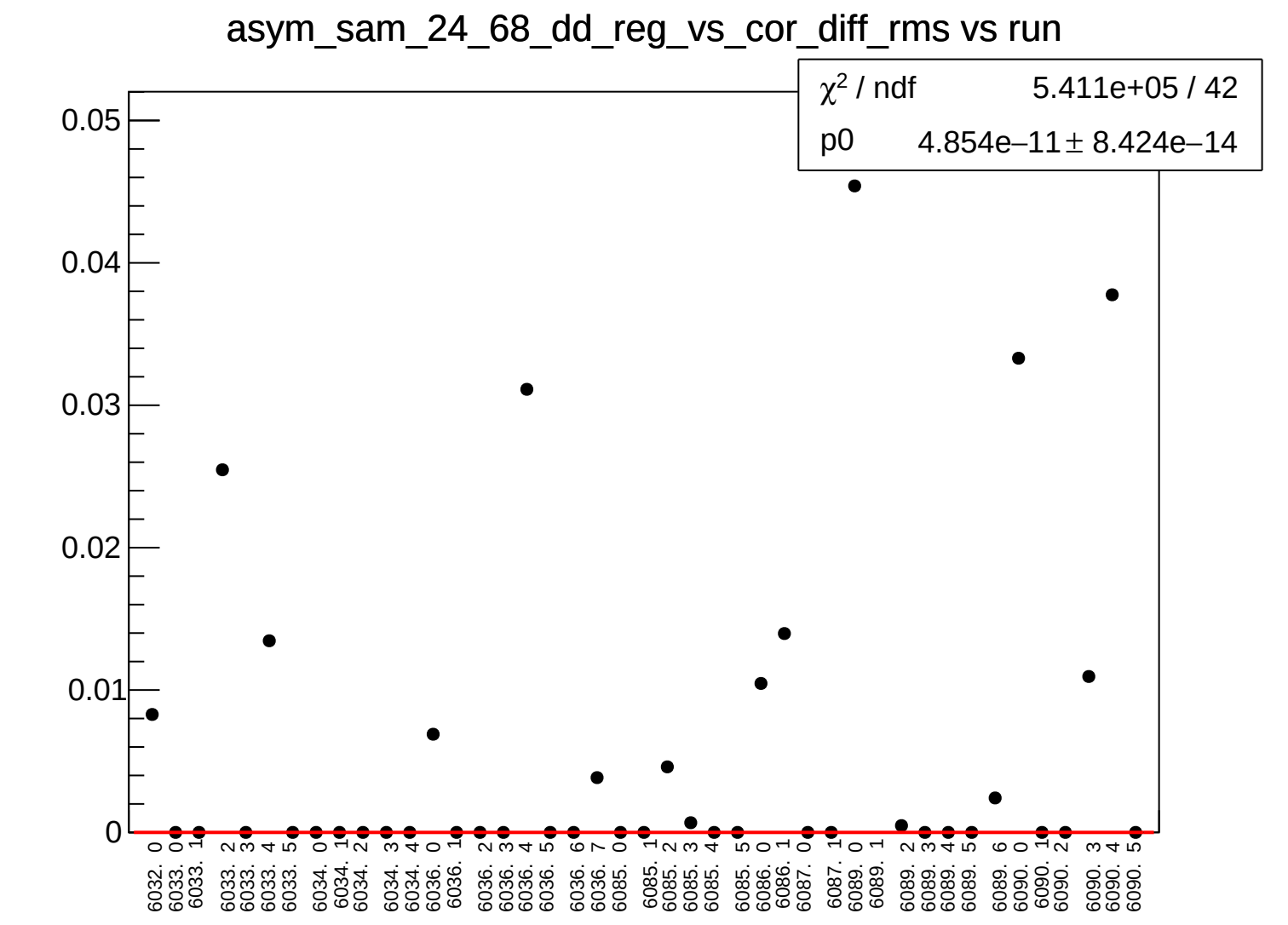

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.794e+04 / 42
p0 1482 ± 1.603
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

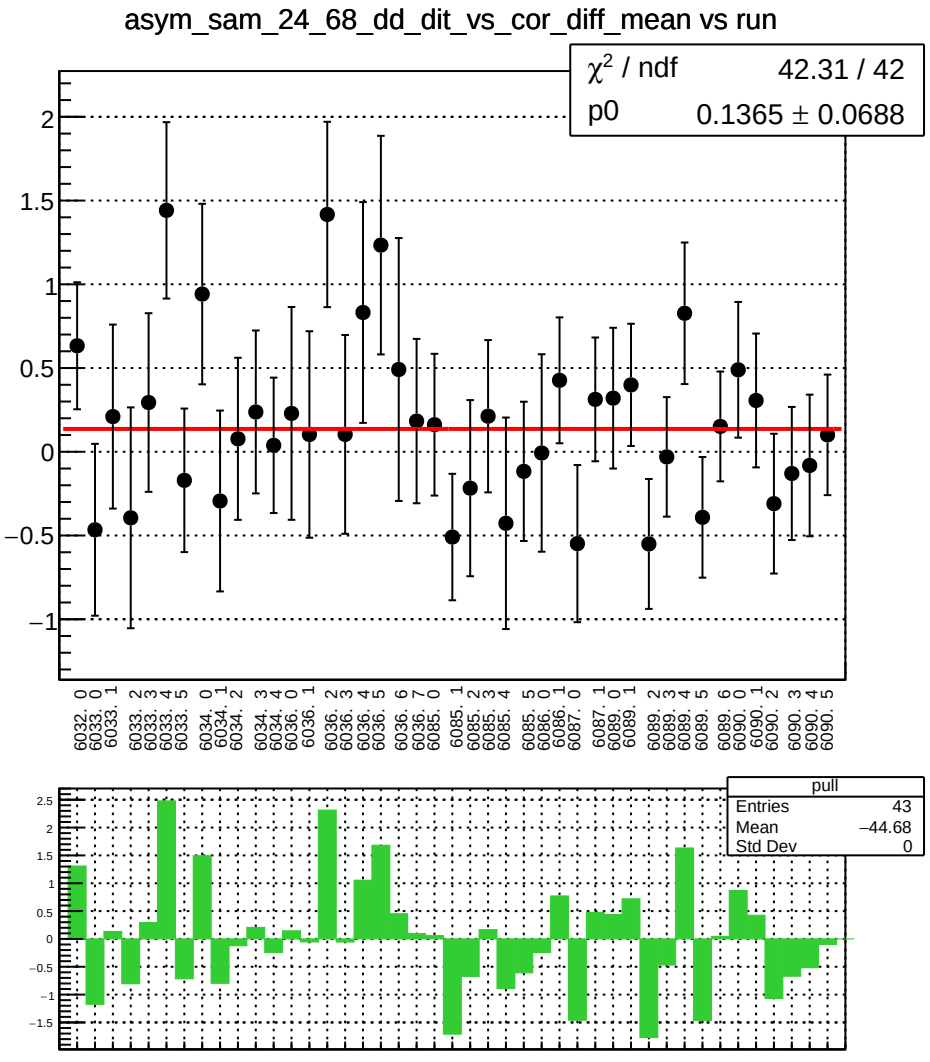

asym_sam_24_68_dd_mean vs run
χ² / ndf 41.61 / 42
p0 618.3 ± 2230
40000
20000
0
−20000
−40000
−60000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.4
Std Dev 26.83
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03025
Std Dev 0.9832
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

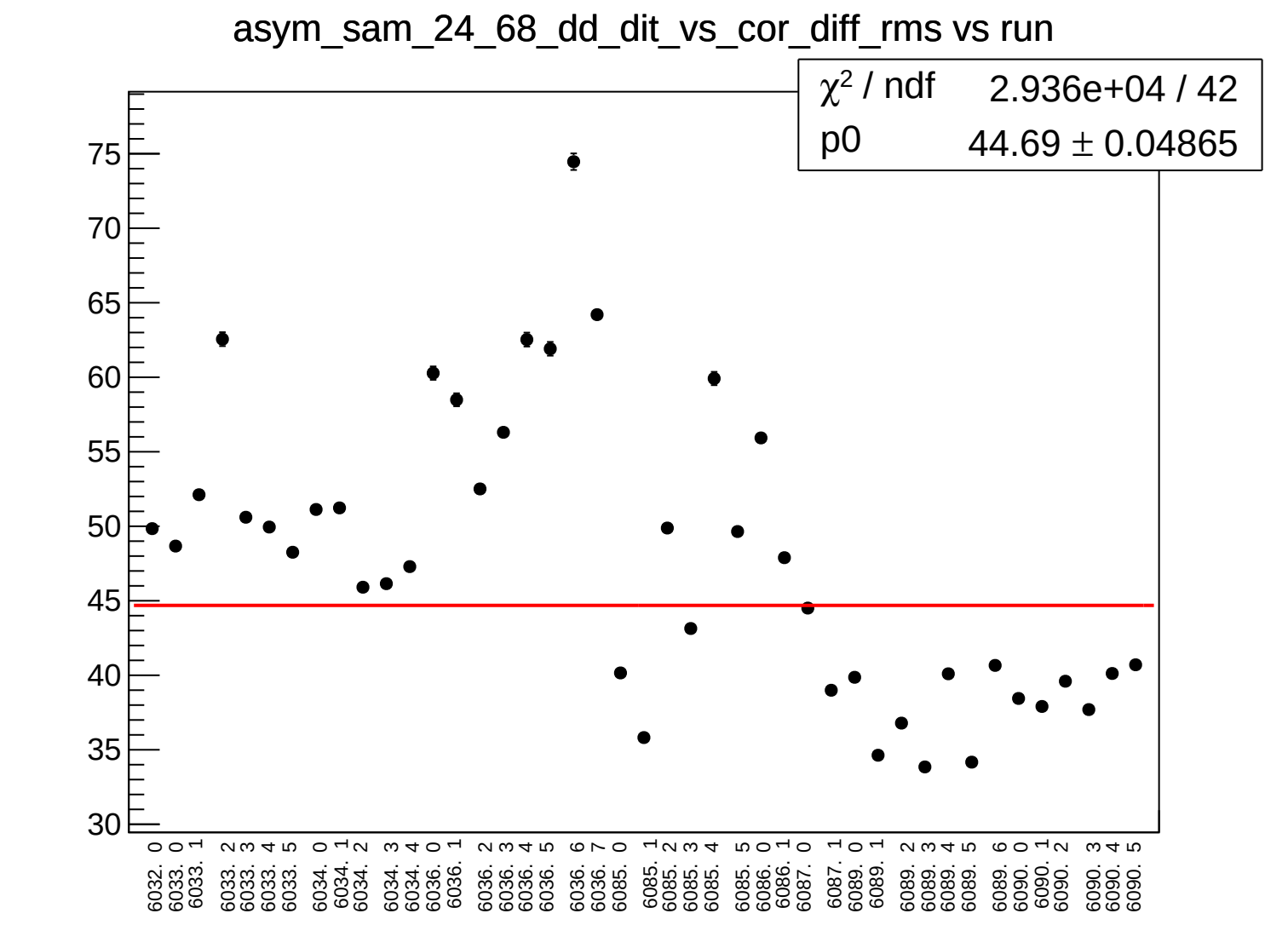

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.816e+04 / 42
p0 1458 ± 1.577
2200
2000
1800
1600
1400
1200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

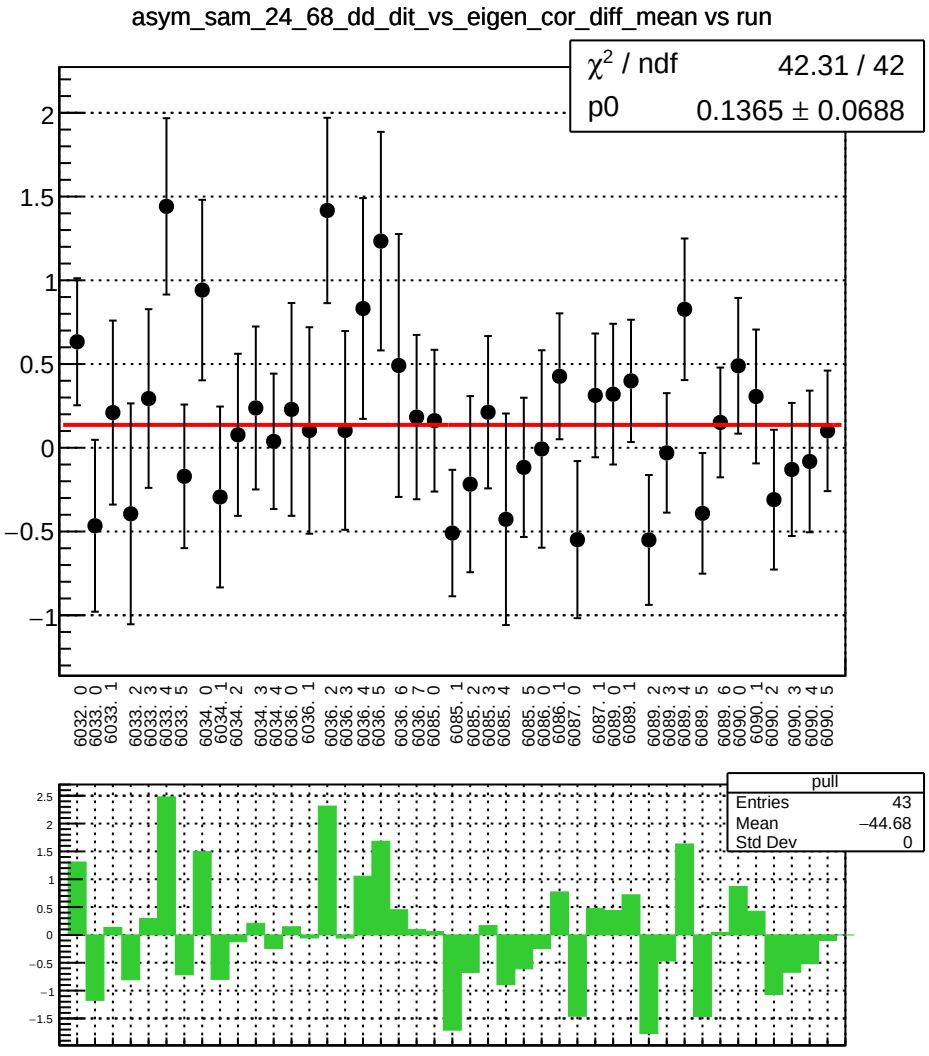

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.64 / 42
p0 1.664e−13 ± 1.191e−13
0.0005
0
−0.0005
−0.001
−0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 37.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

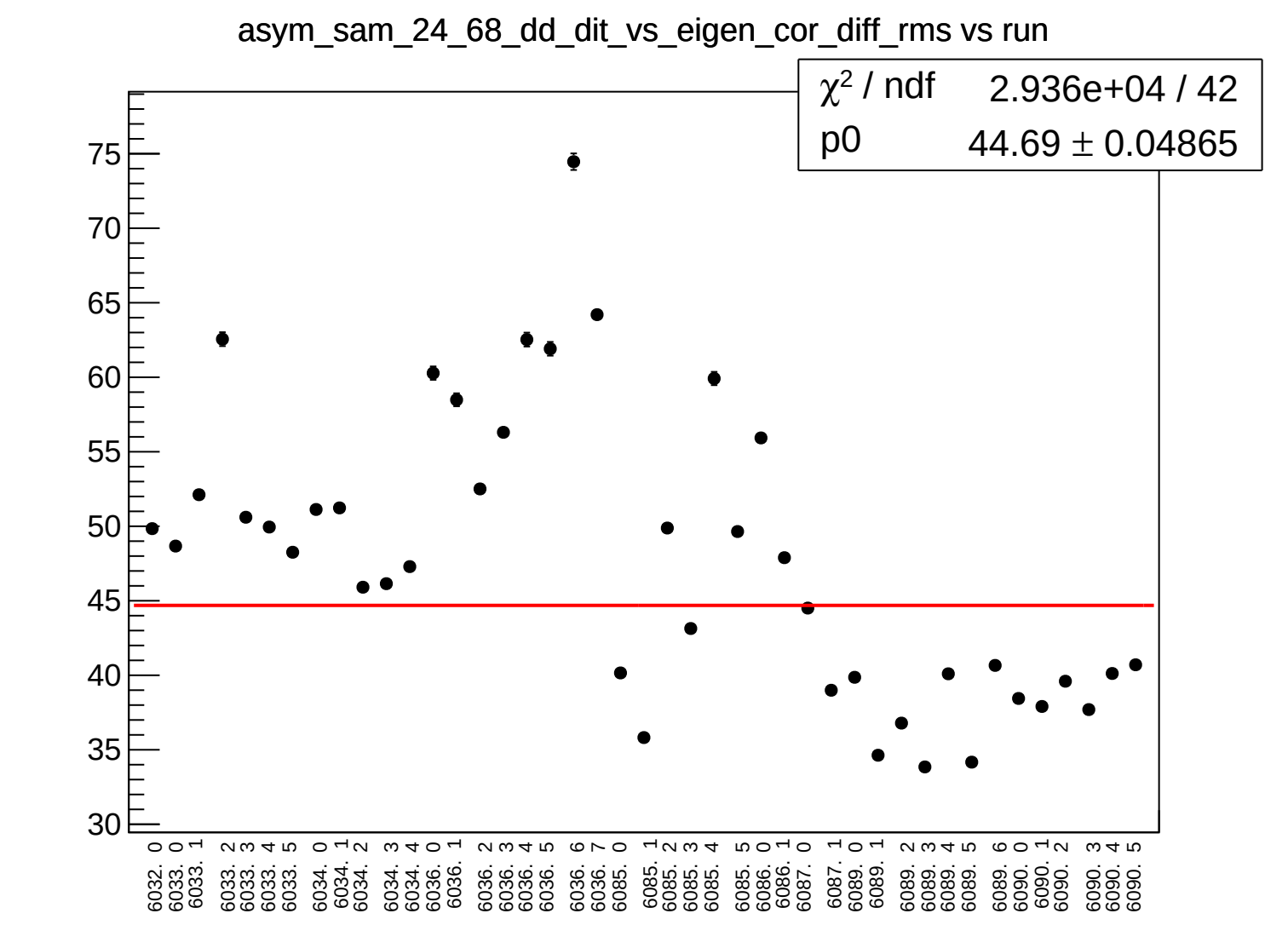

pull1D
Entries 43
Mean 0.04765
Std Dev 0.8565
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

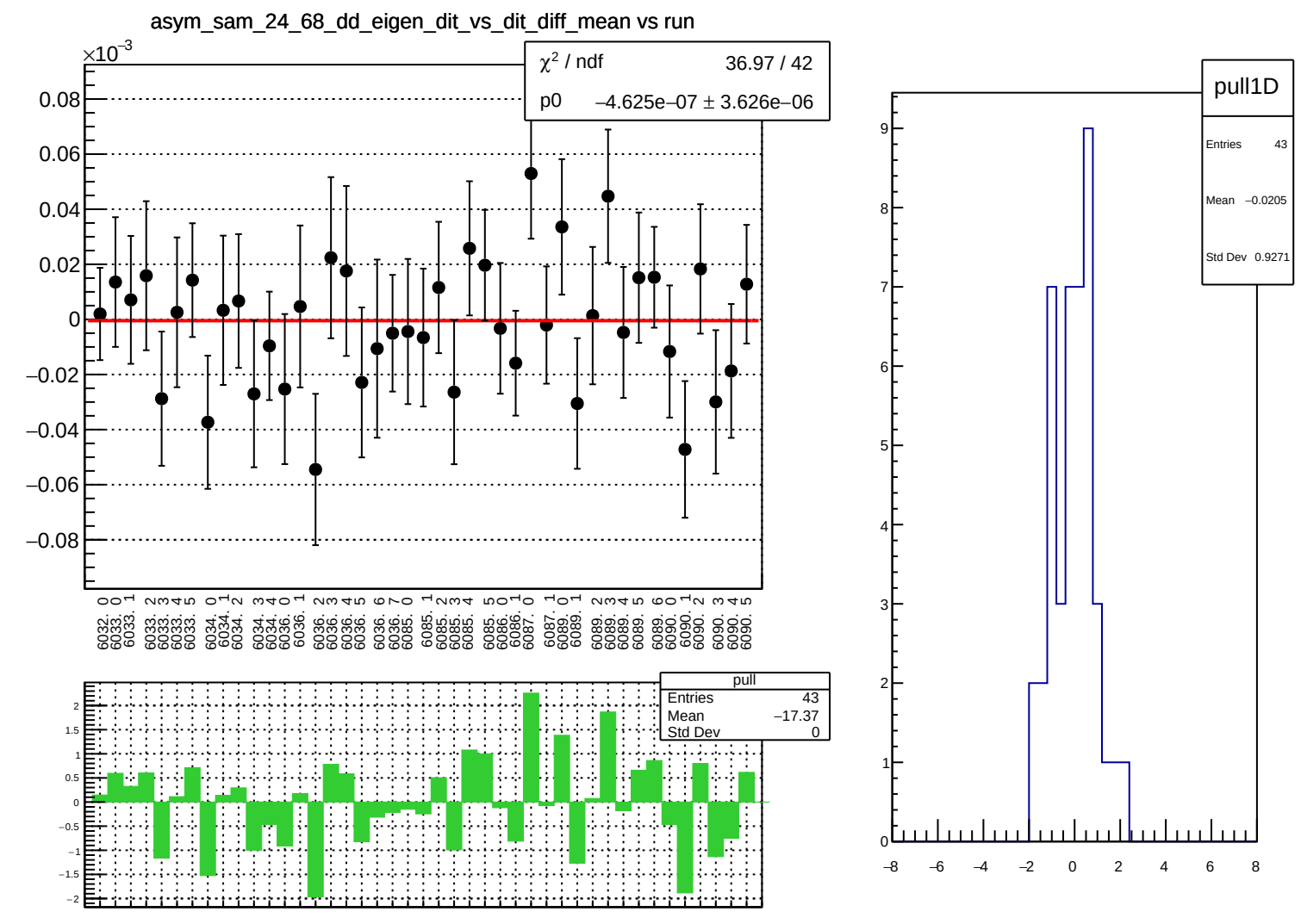

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.411e+05 / 42
p0 4.854e−11 ± 8.424e−14
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

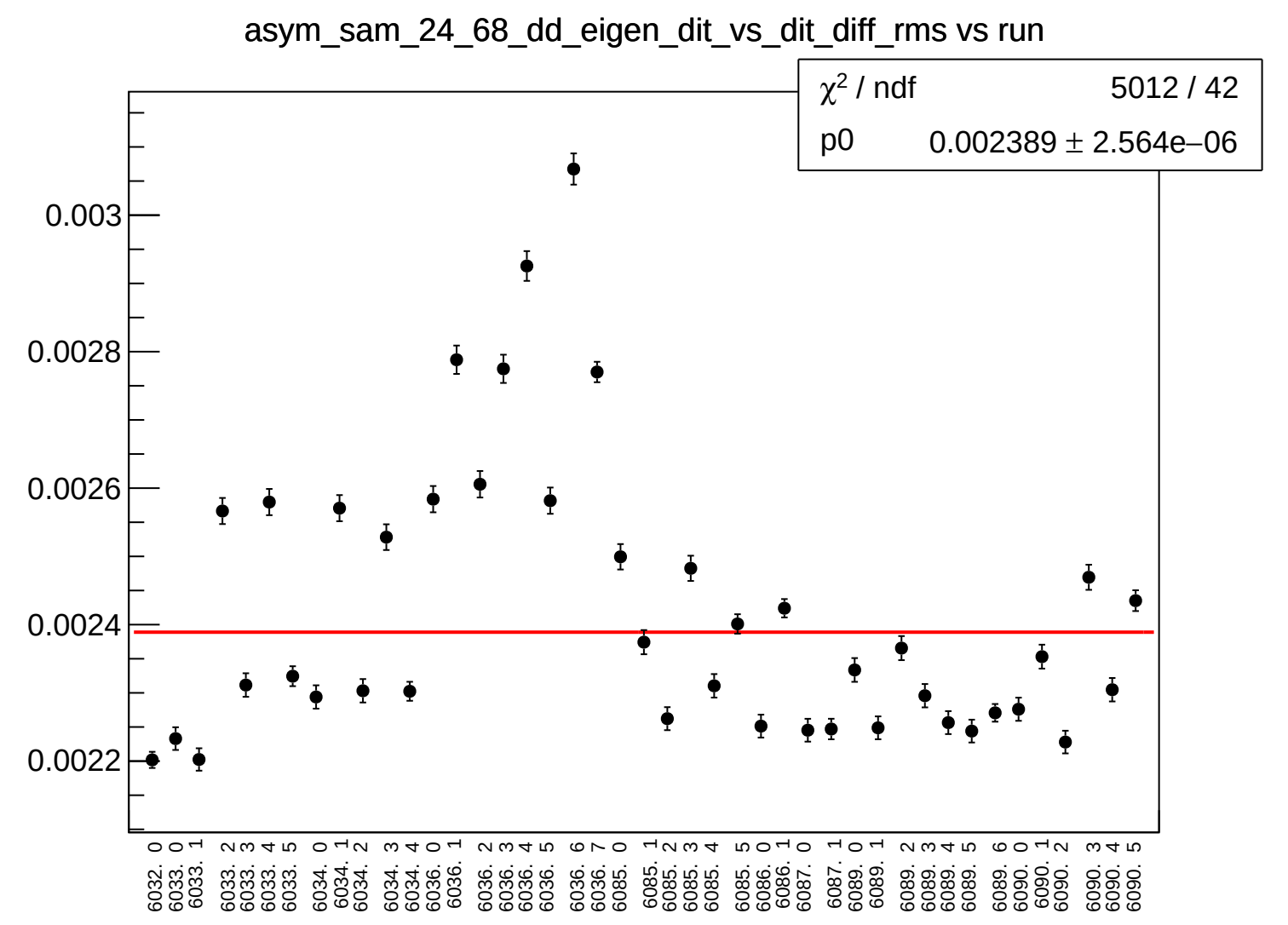

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.31 / 42
p0 0.1365 ± 0.0688
pull
Entries 43
Mean −44.68
Std Dev 0
pull1D
Entries 43
Mean 0.03849
Std Dev 0.9911

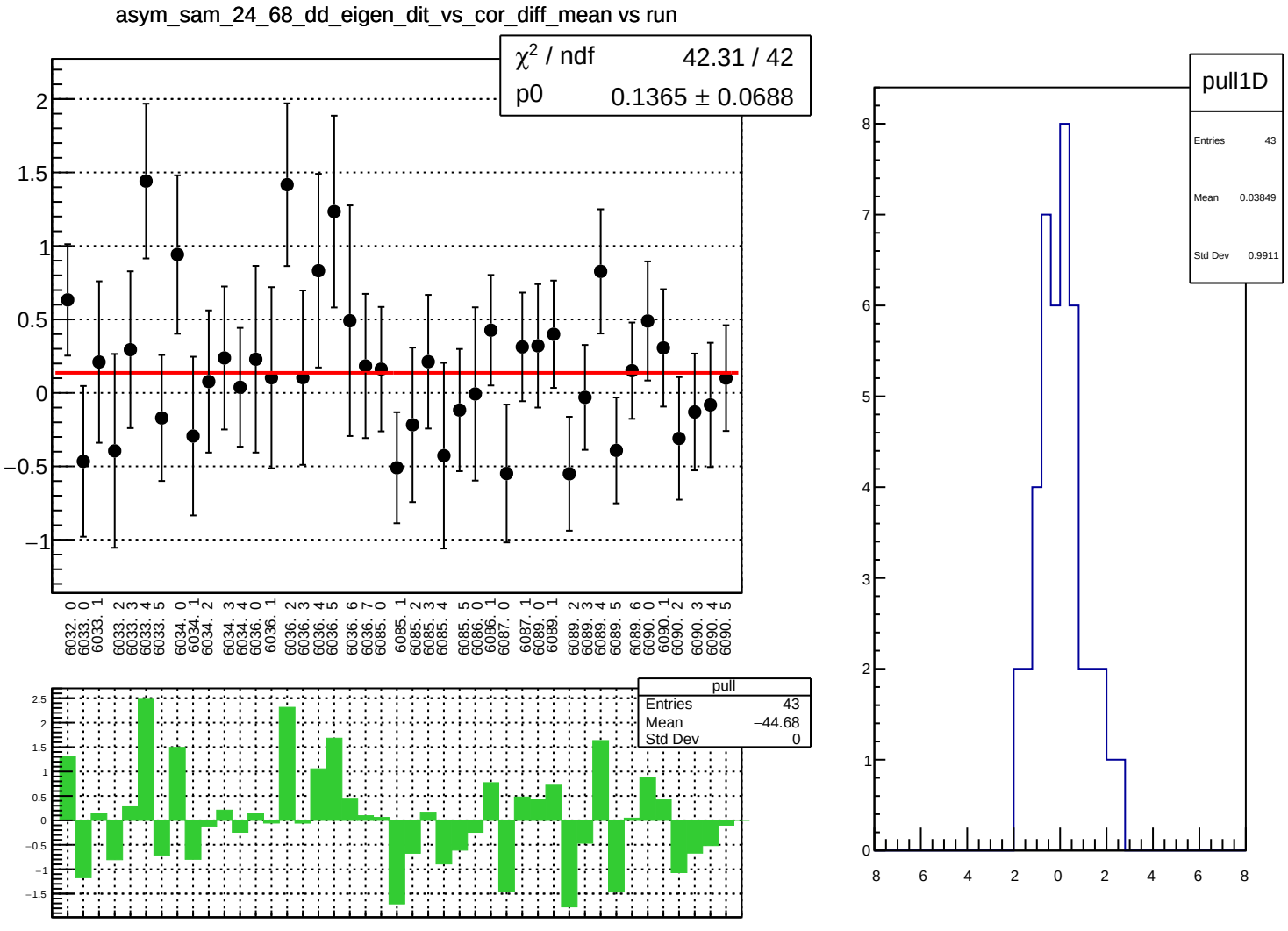

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.936e+04 / 42
p0 44.69 ± 0.04865
75
70
65
60
55
50
45
40
35
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

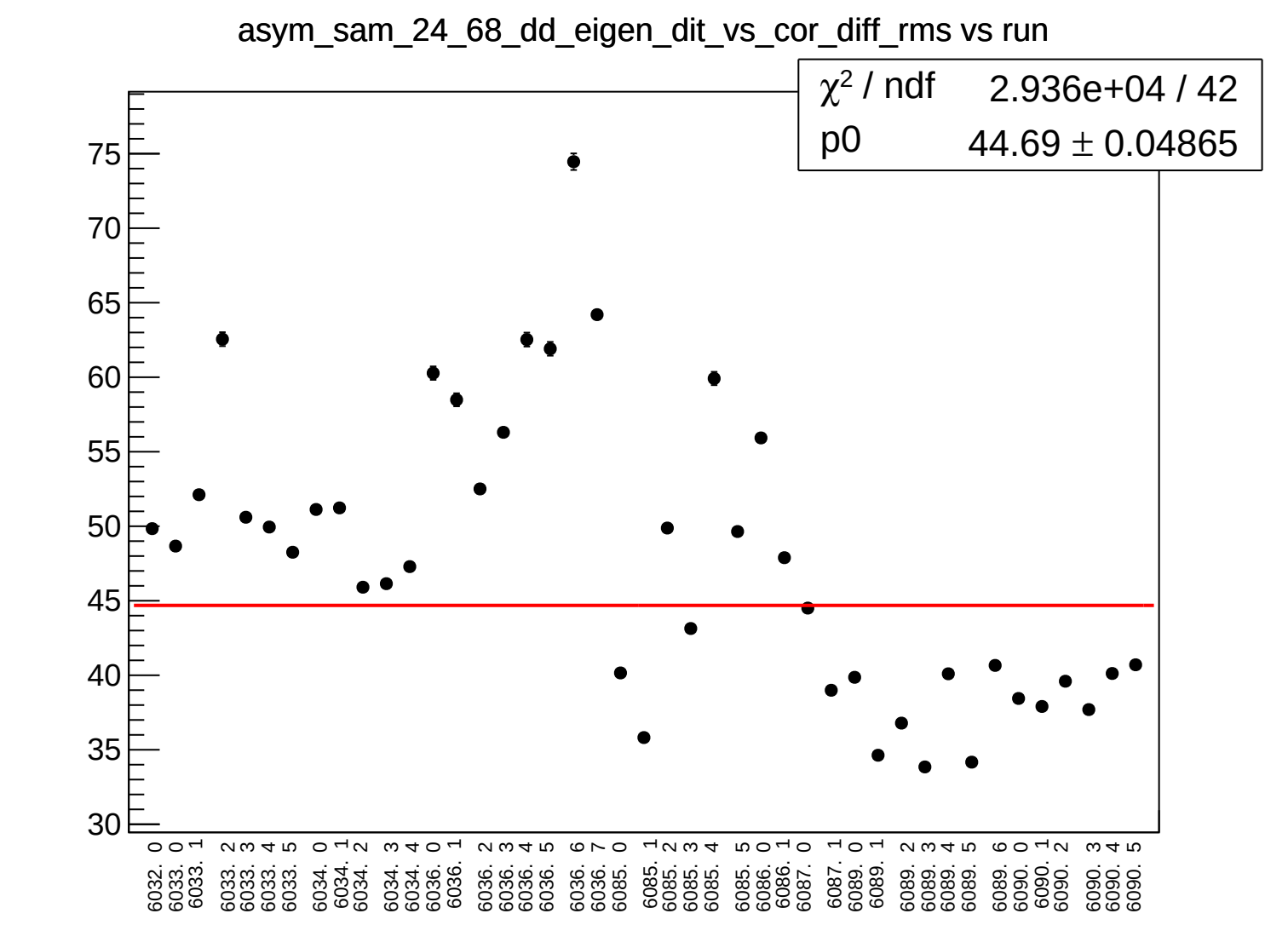

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.31 / 42
p0 0.1365 ± 0.0688
pull
Entries 43
Mean −44.68
Std Dev 0
pull1D
Entries 43
Mean 0.03849
Std Dev 0.9911


asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.936e+04 / 42
p0 44.69 ± 0.04865
75
70
65
60
55
50
45
40
35
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

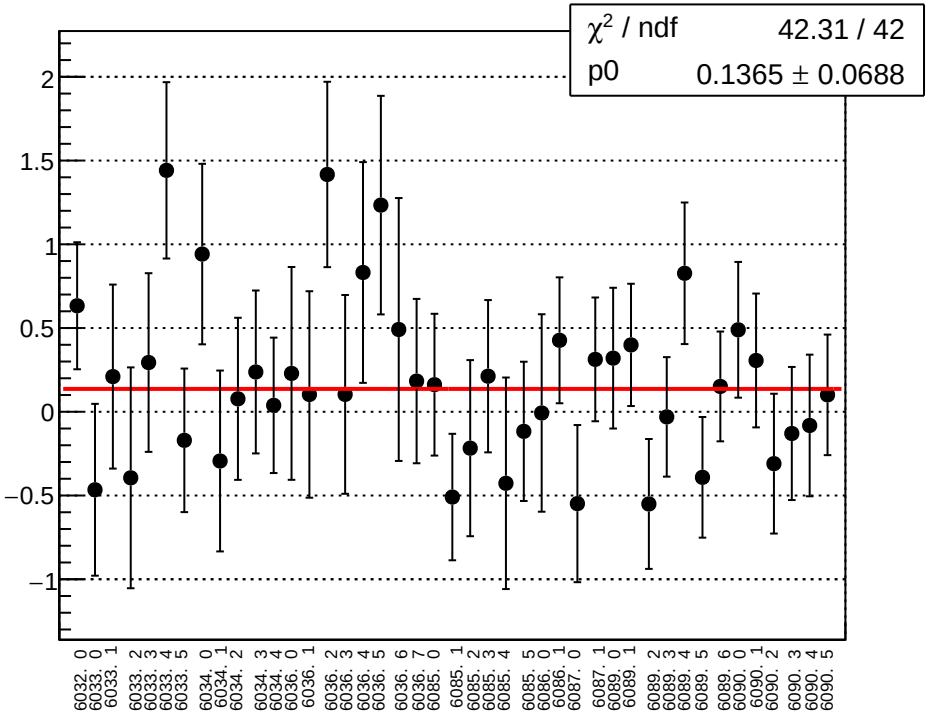

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.97 / 42
p0 −4.625e−07 ± 3.626e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −17.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0205
Std Dev 0.9271
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

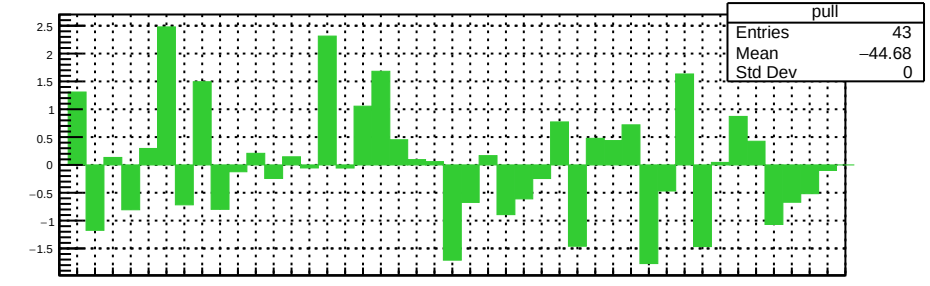

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5012 / 42
p0 0.002389 ± 2.564e−06
0.003
0.0028
0.0026
0.0024
0.0022
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

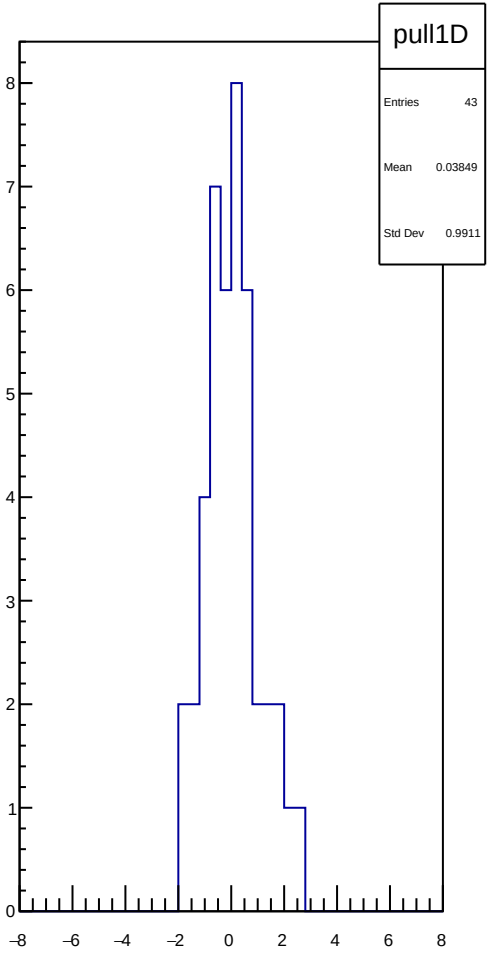

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.31 / 42
p0 0.1365 ± 0.0688
pull
Entries 43
Mean −44.68
Std Dev 0
pull1D
Entries 43
Mean 0.03849
Std Dev 0.9911

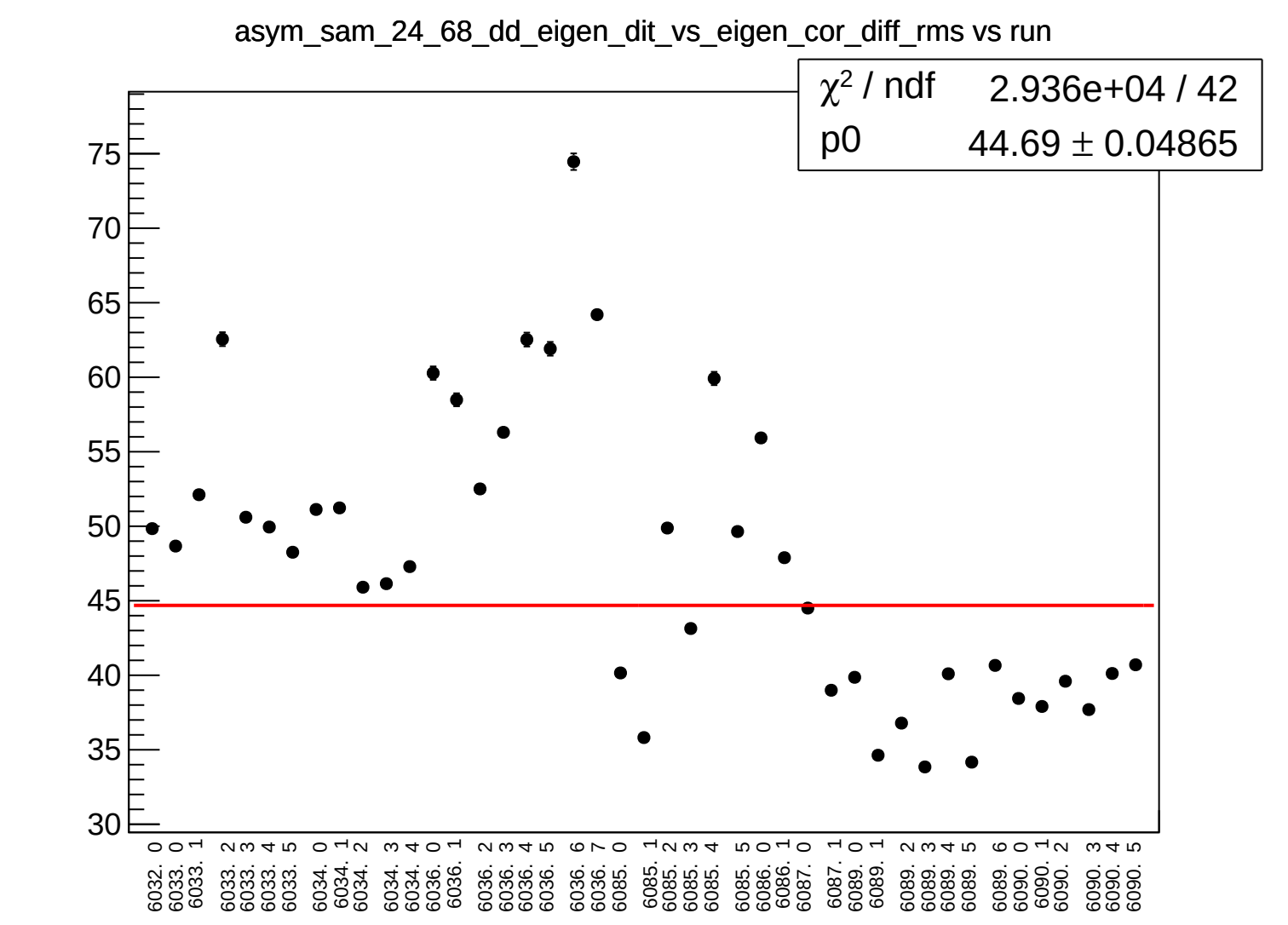

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.936e+04 / 42
p0 44.69 ± 0.04865
75
70
65
60
55
50
45
40
35
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

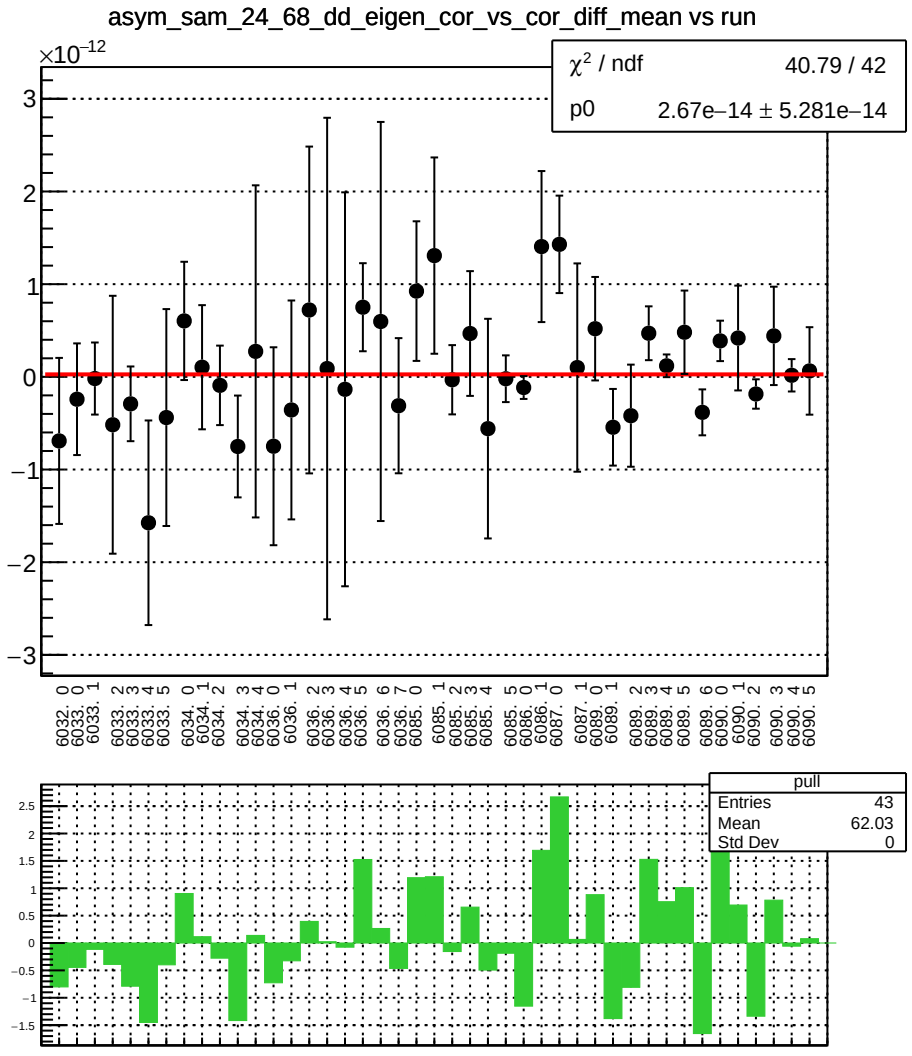
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

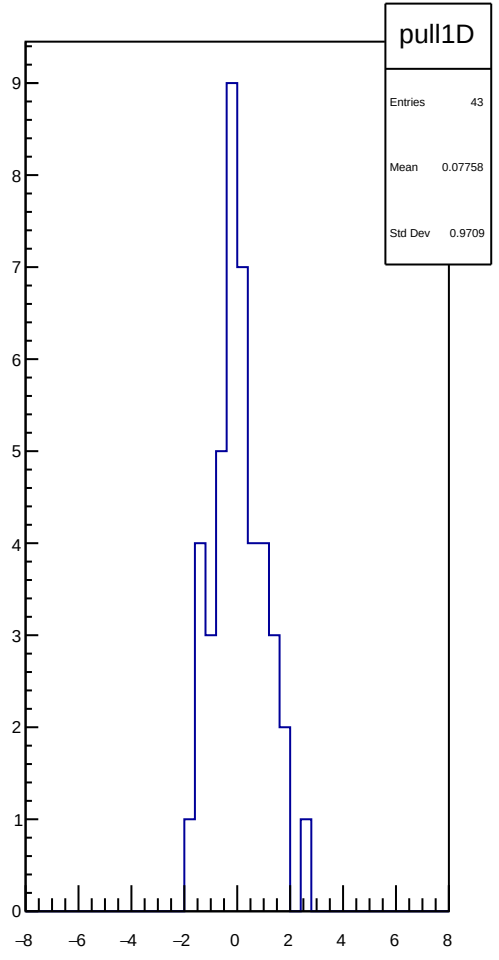


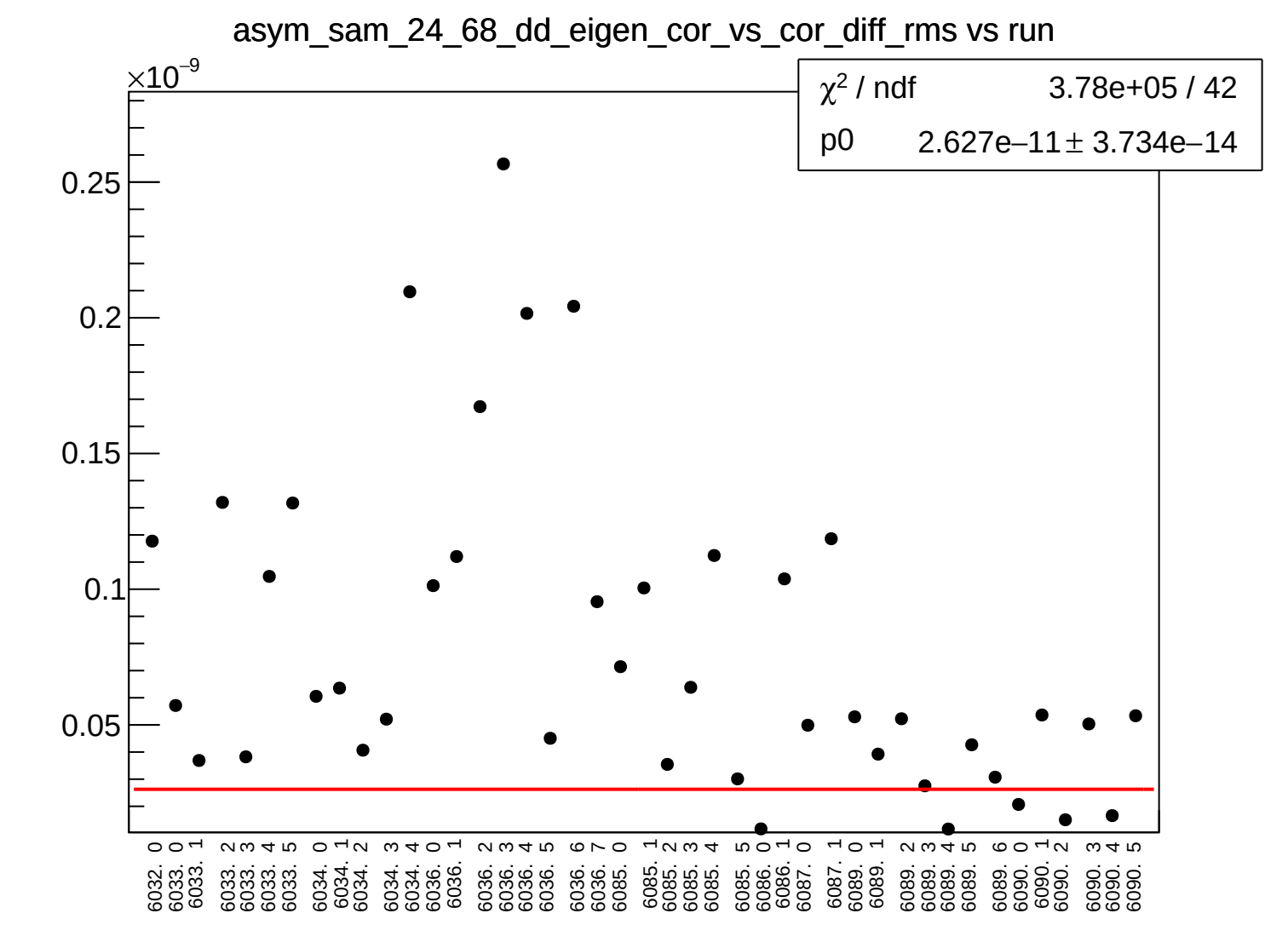


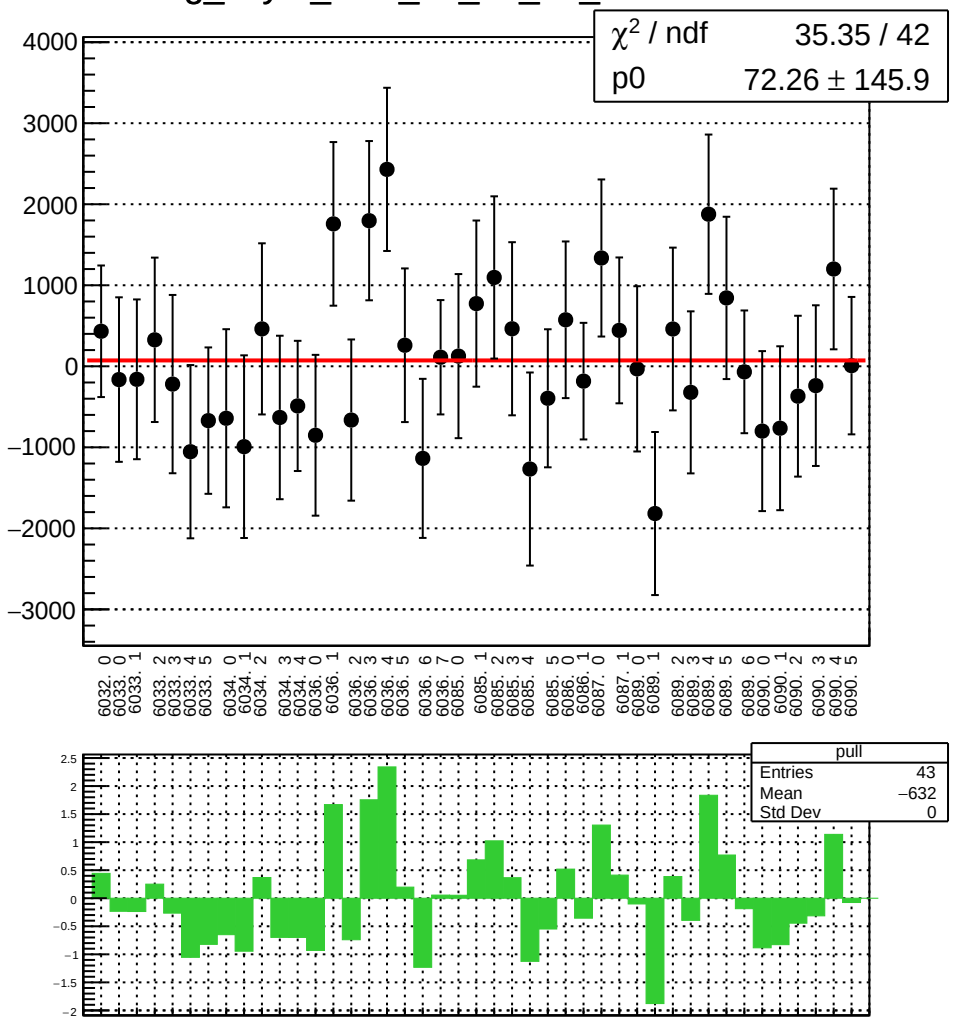


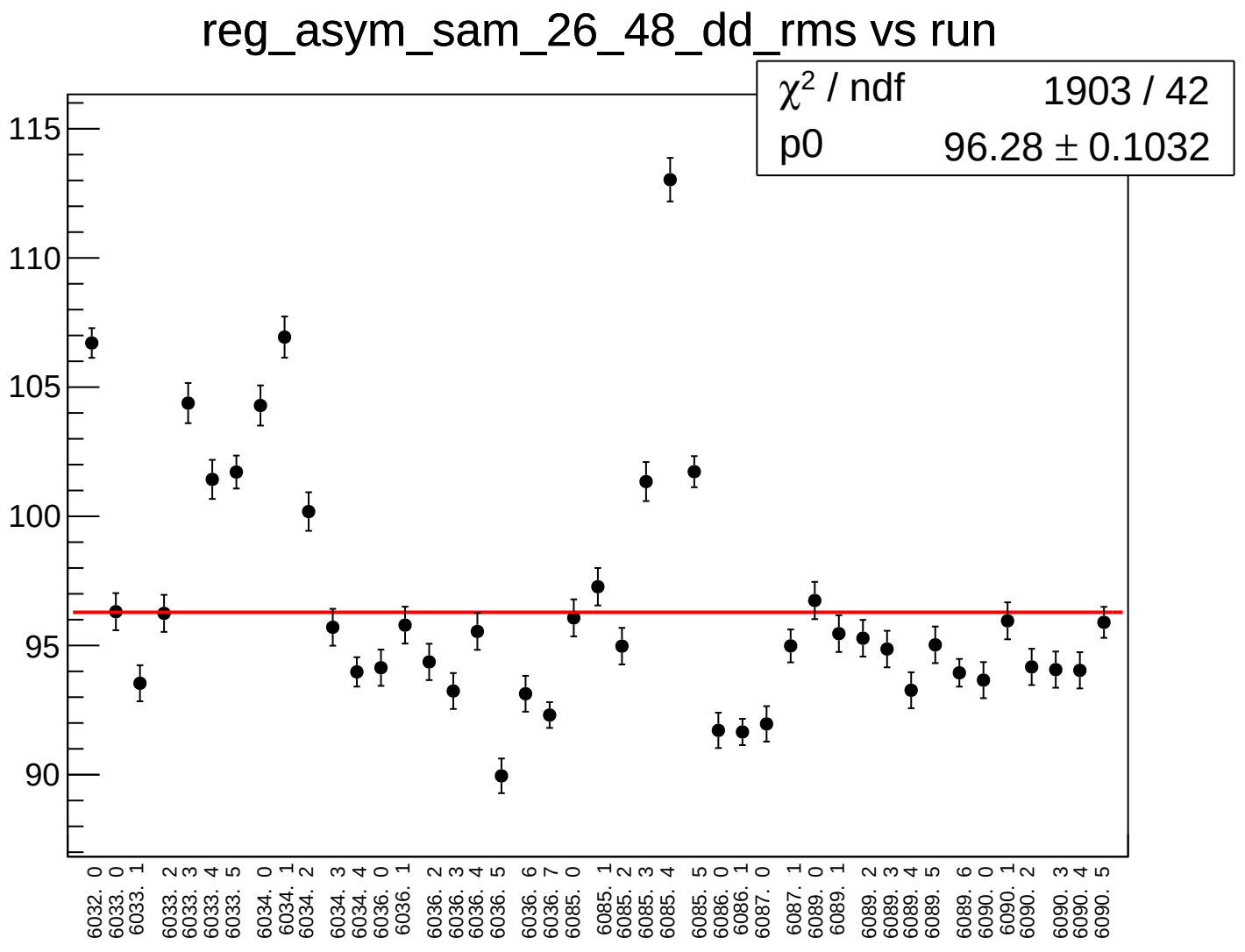

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.936e+04 / 42
p0 44.69 ± 0.04865
75
70
65
60
55
50
45
40
35
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

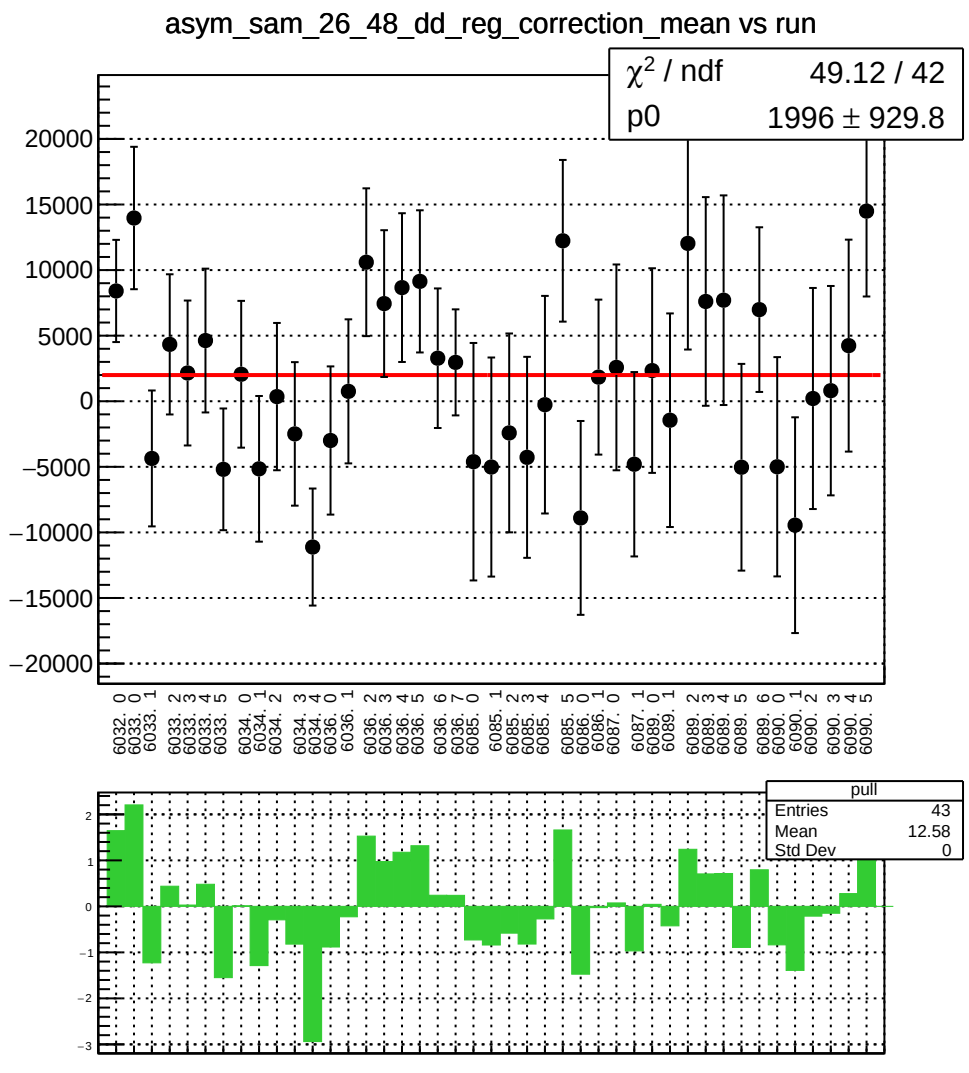

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.79 / 42
p0 2.67e−14 ± 5.281e−14
pull
Entries 43
Mean 62.03
Std Dev 0

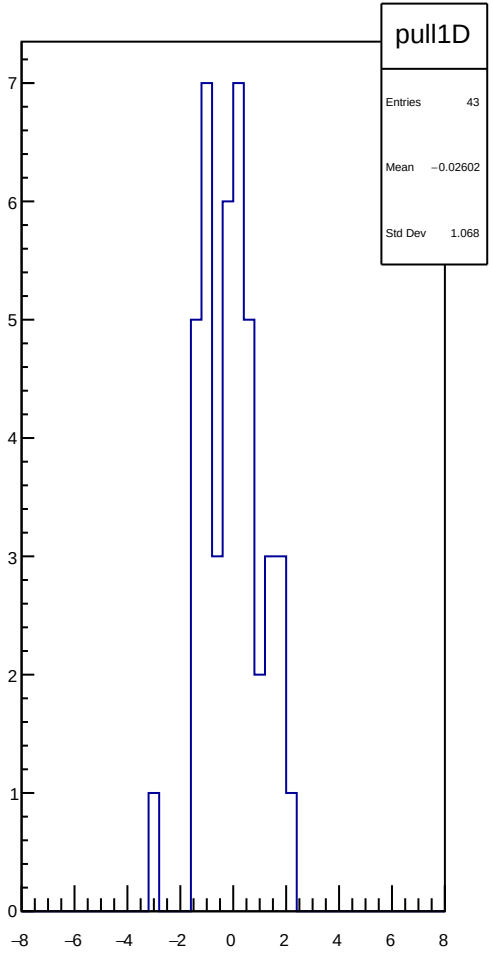

pull1D
Entries 43
Mean 0.07758
Std Dev 0.9709

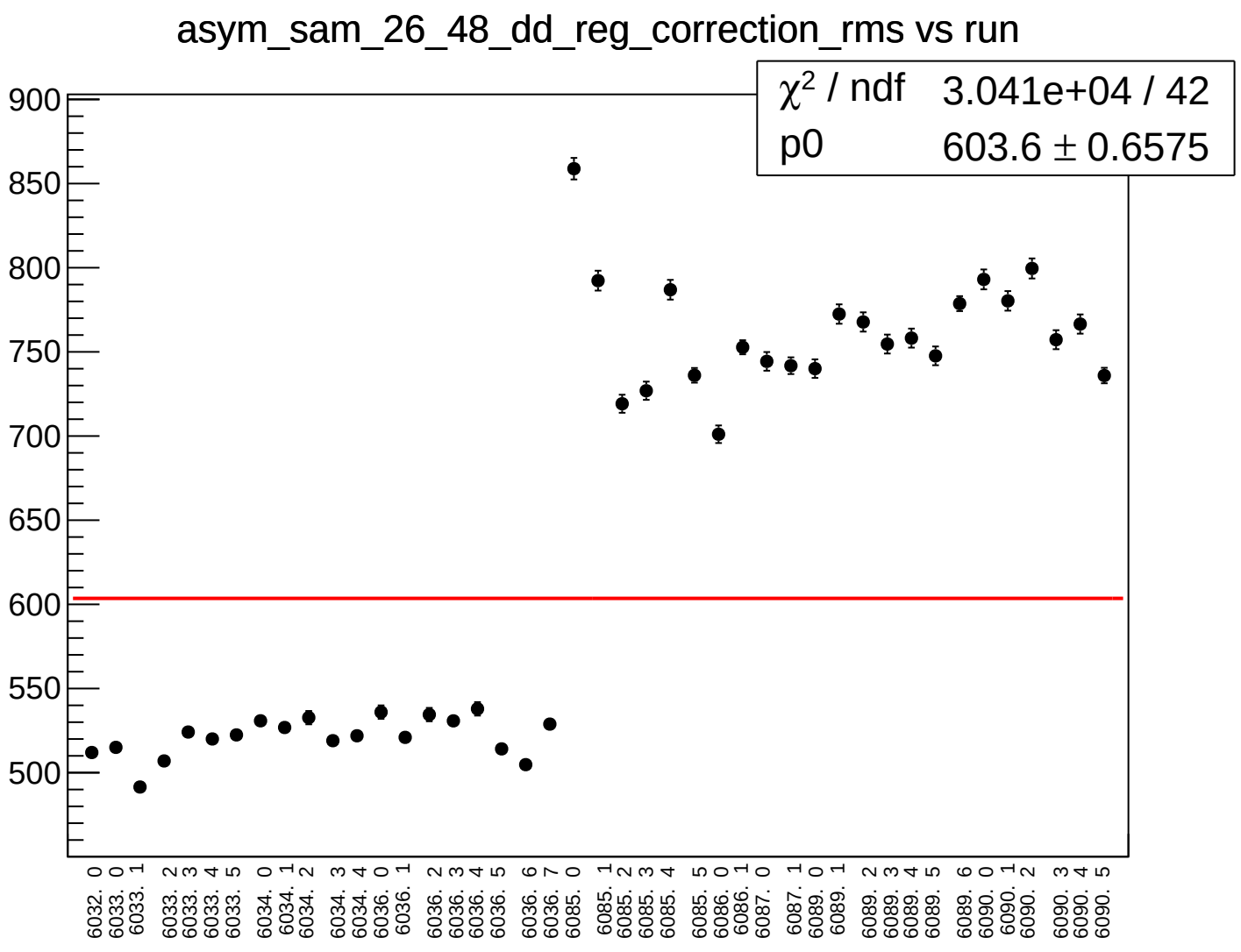

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.78e+05 / 42
p0 2.627e−11 ± 3.734e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

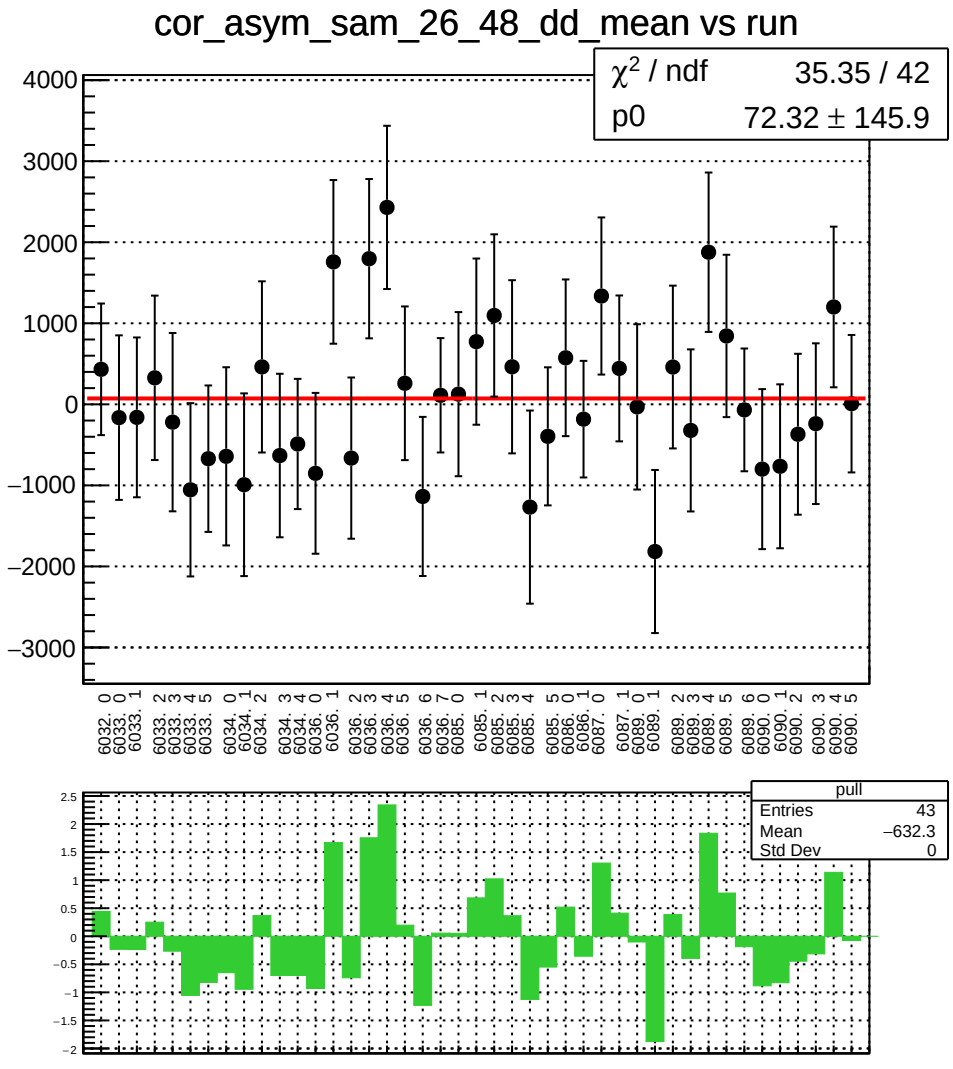

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 35.35 / 42
p0 72.26 ± 145.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −632
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001463
Std Dev 0.9067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

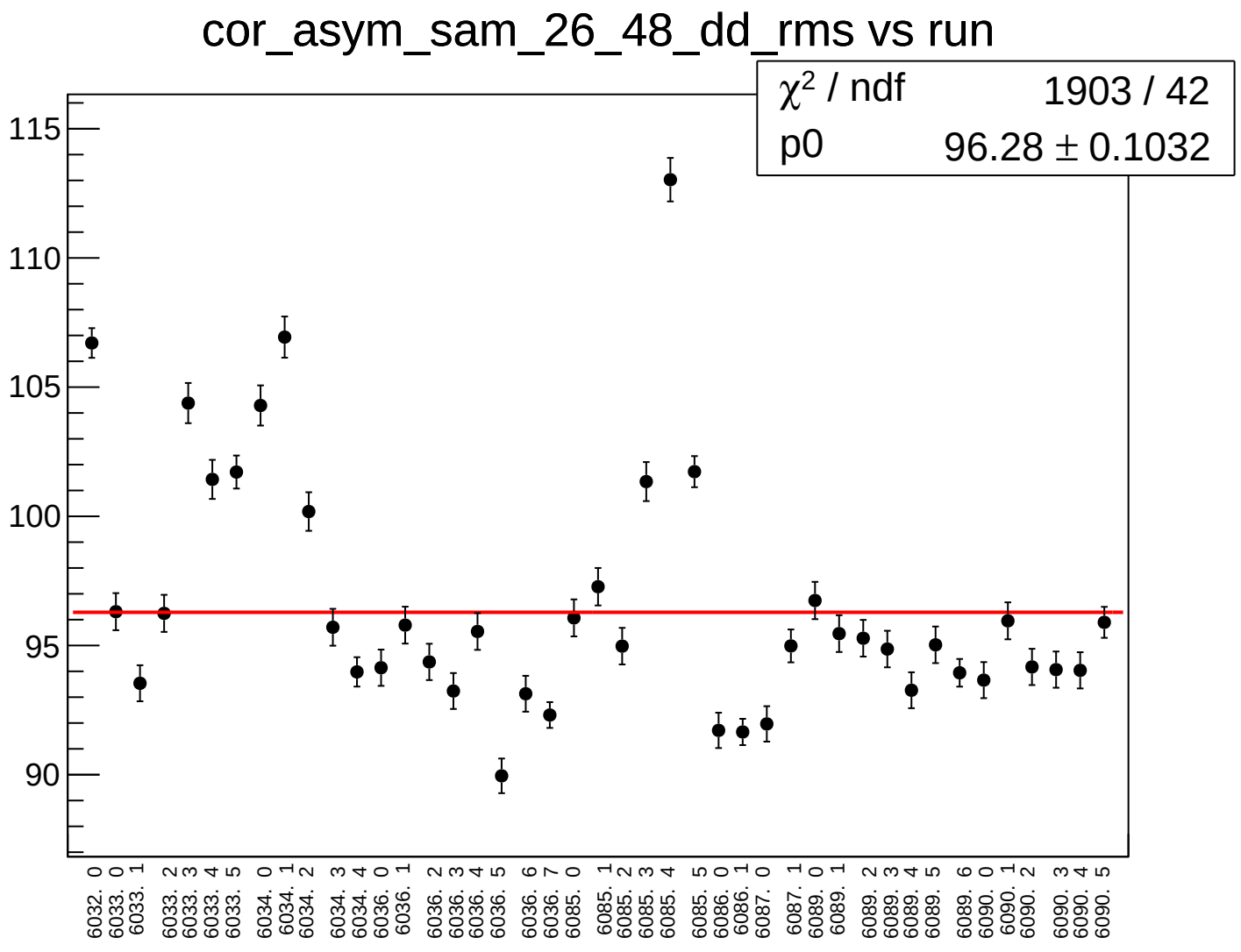

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1903 / 42
p0 96.28 ± 0.1032
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 49.12 / 42
p0 1996 ± 929.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.58
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.02602
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3.041e+04 / 42
p0 603.6 ± 0.6575
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 35.35 / 42
p0 72.32 ± 145.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −632.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001464
Std Dev 0.9067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1903 / 42
p0 96.28 ± 0.1032
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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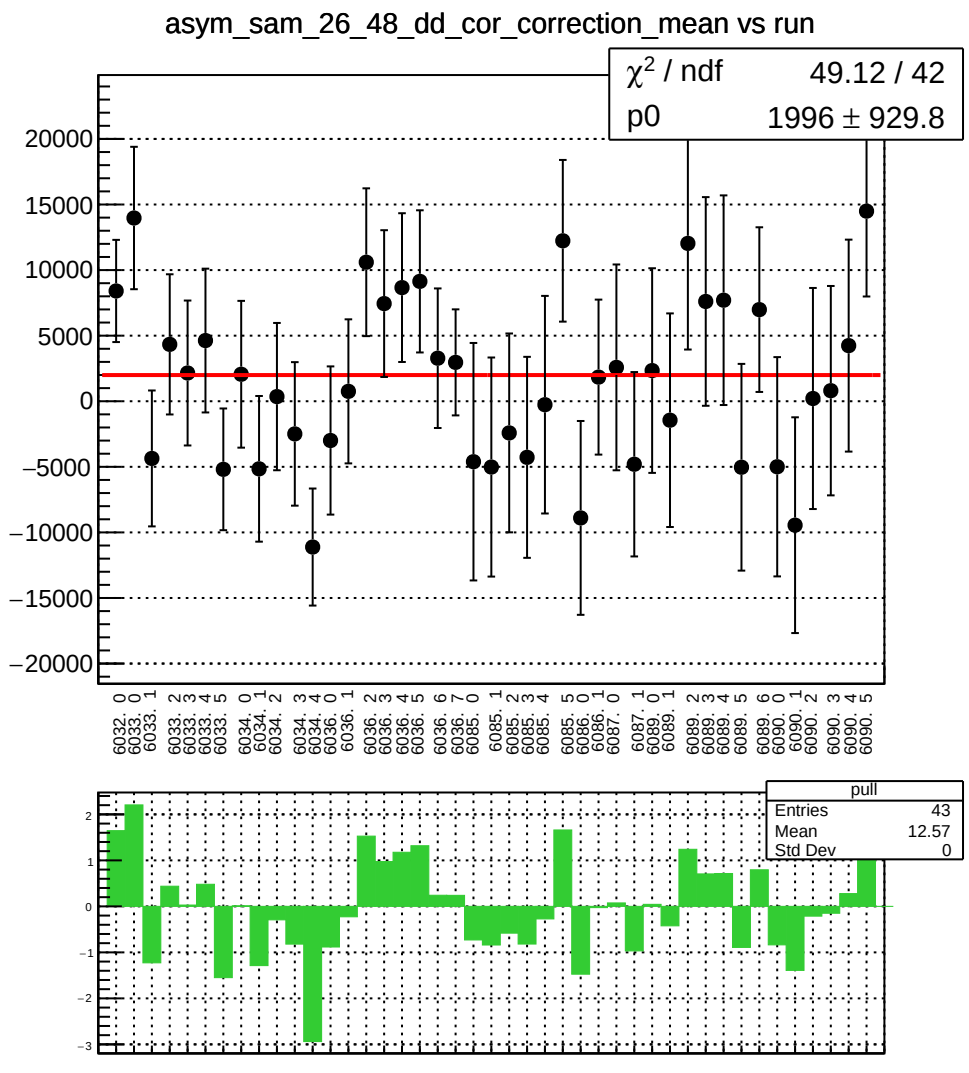
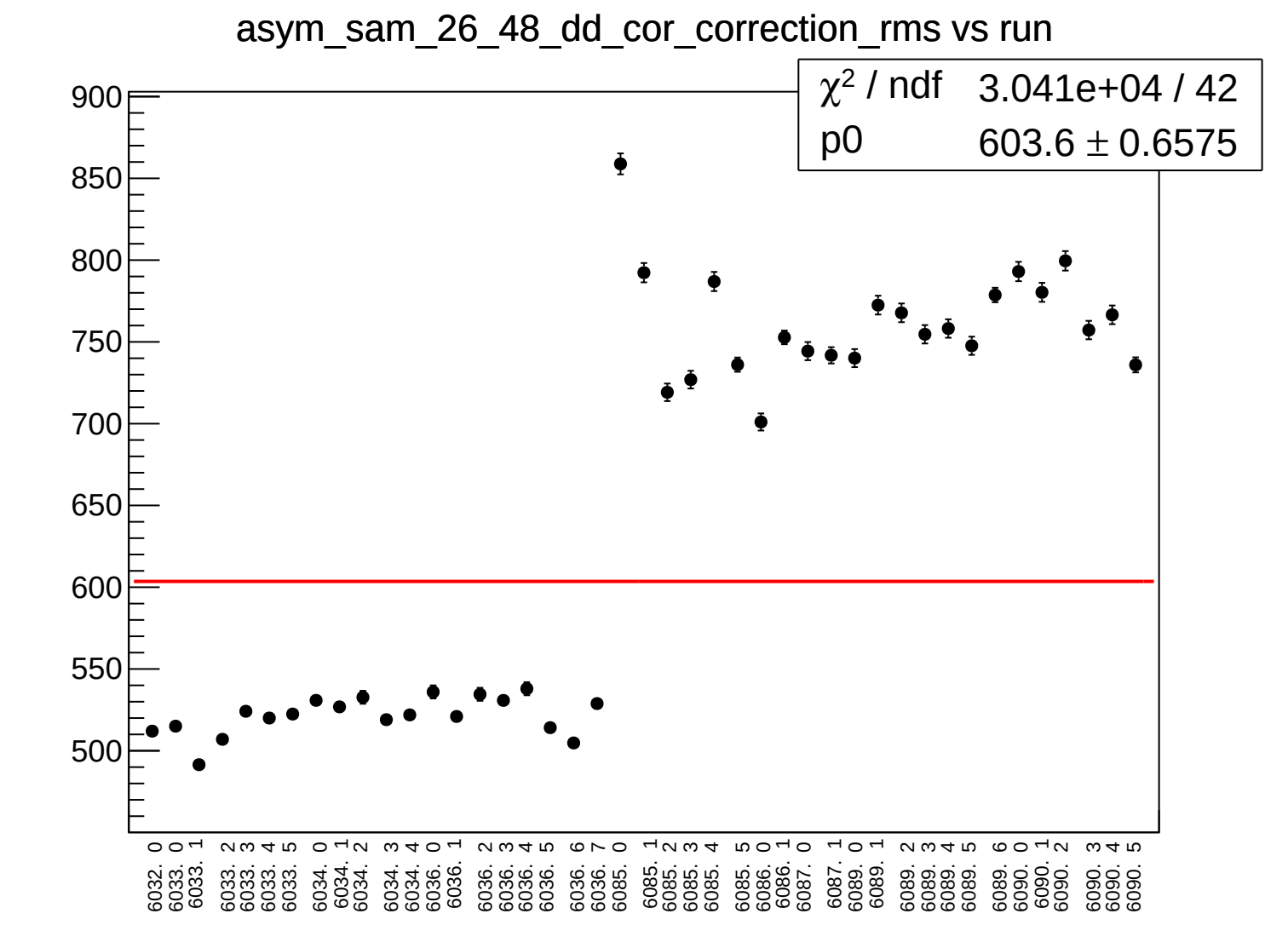
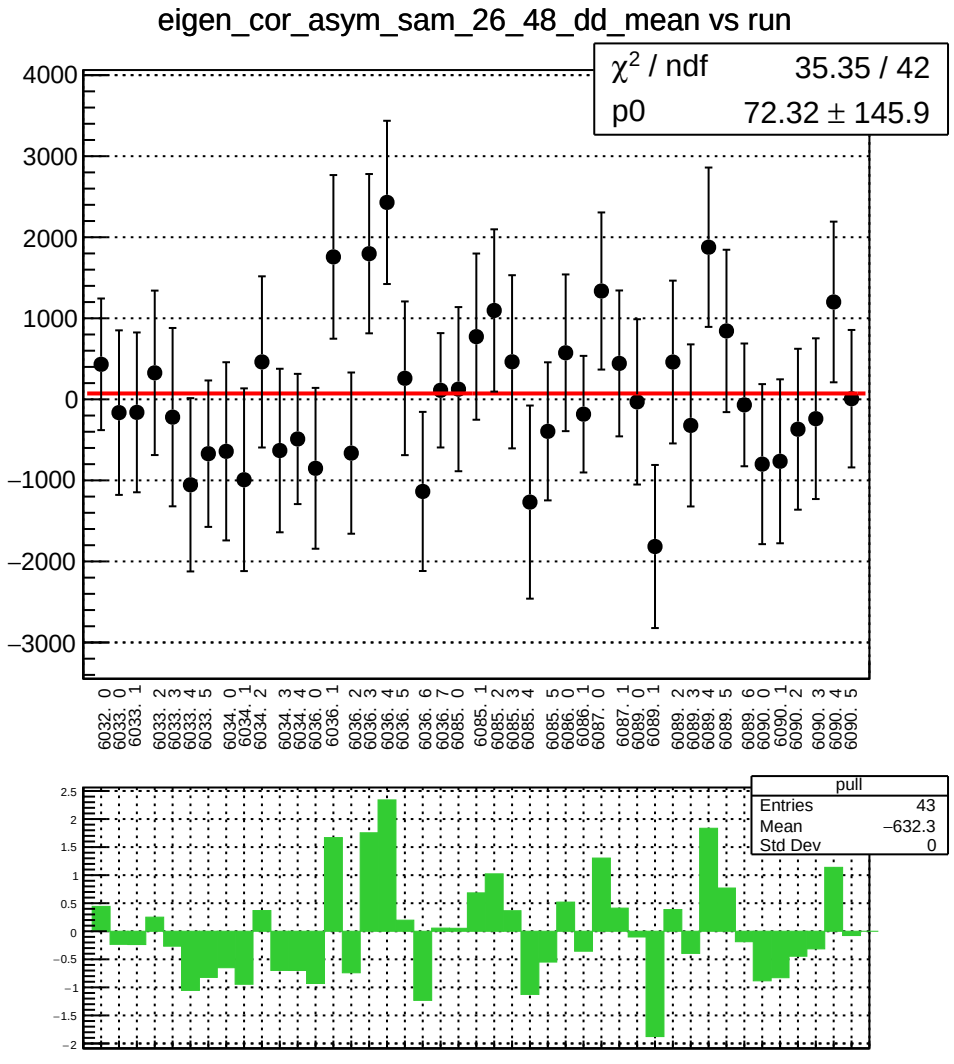
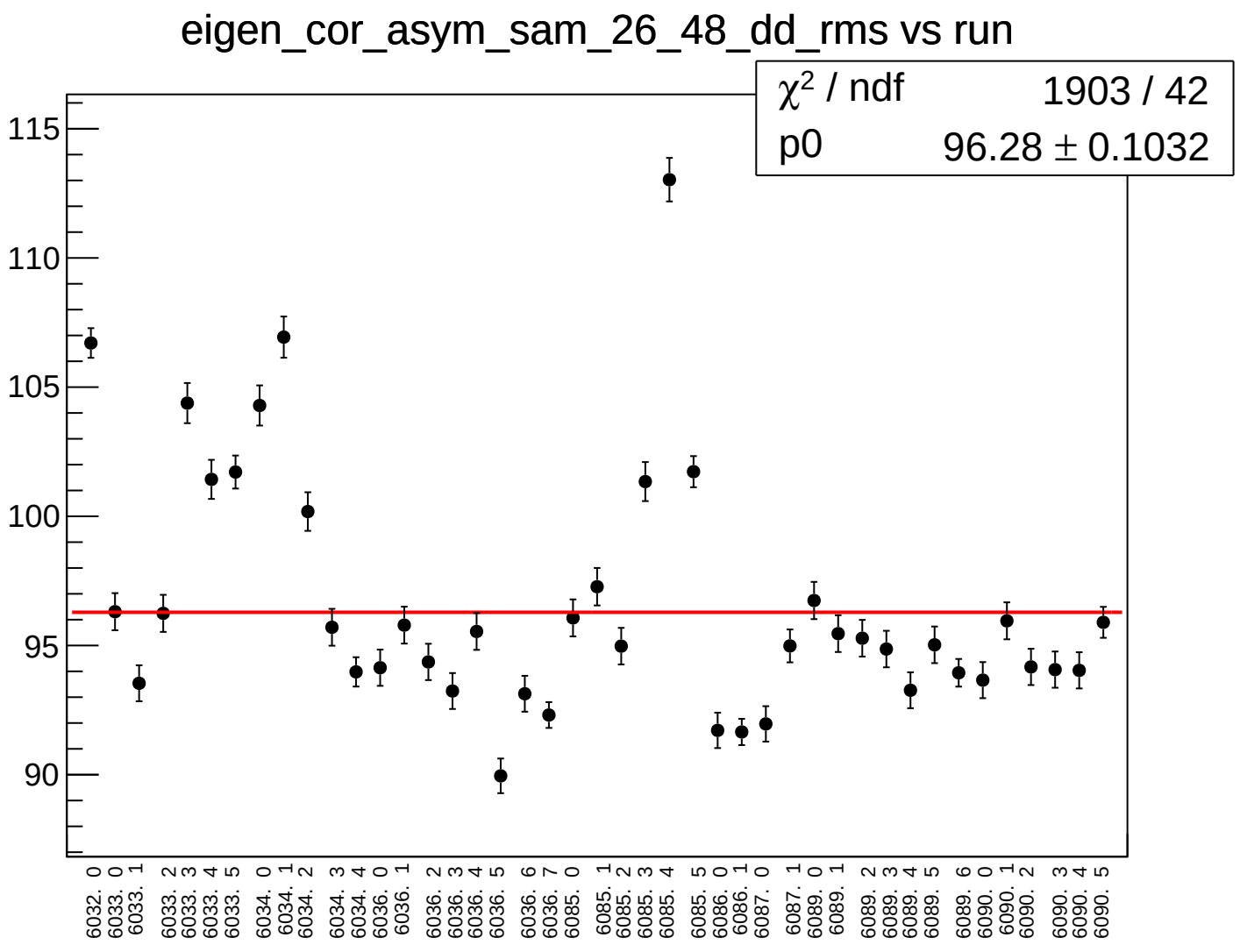
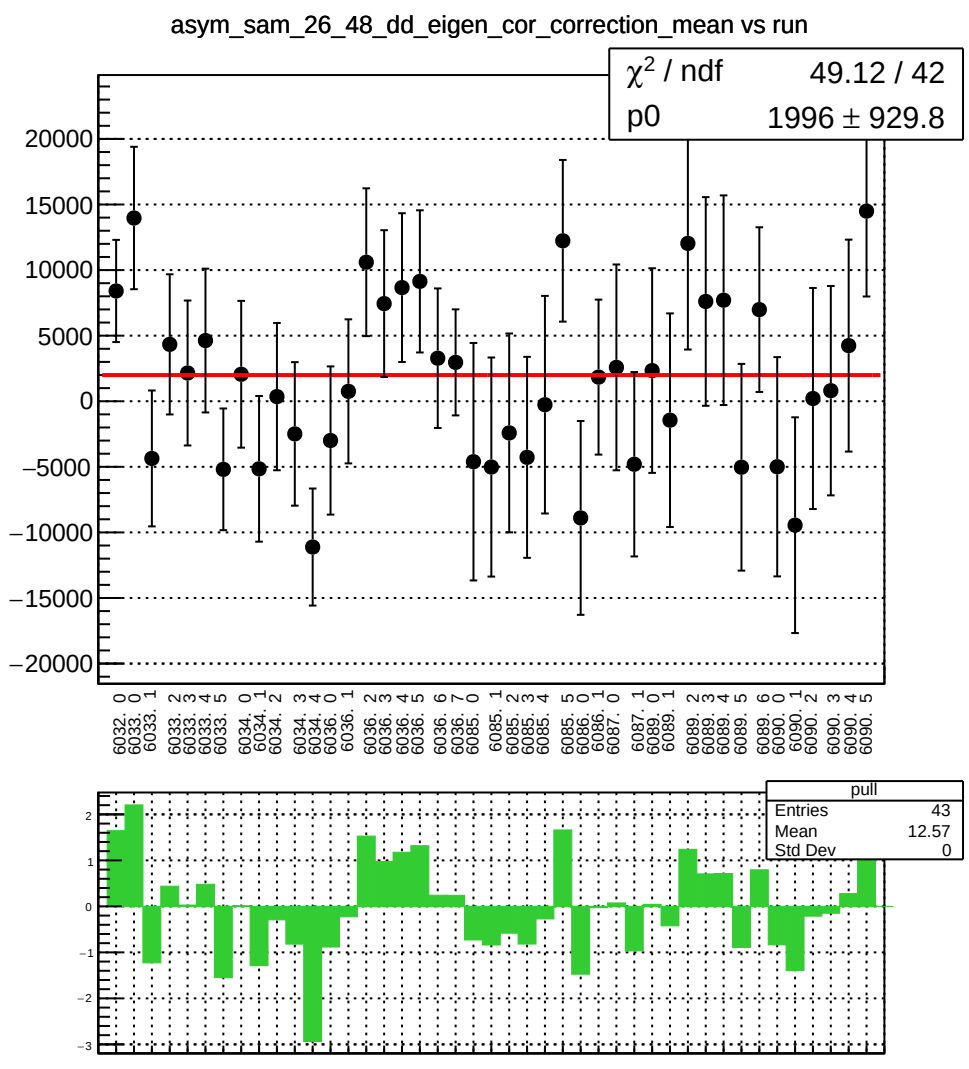
6090. 4
6090. 5

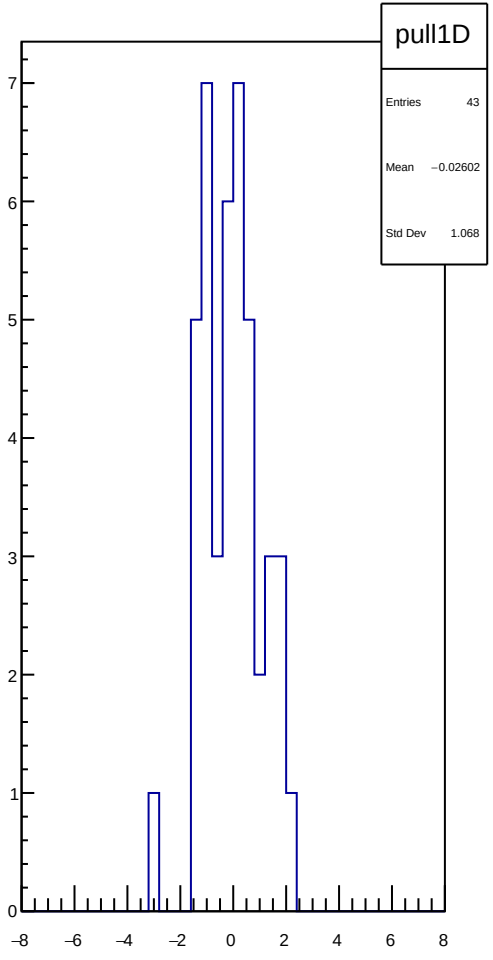

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 49.12 / 42
p0 1996 ± 929.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.57
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02602
Std Dev 1.068
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

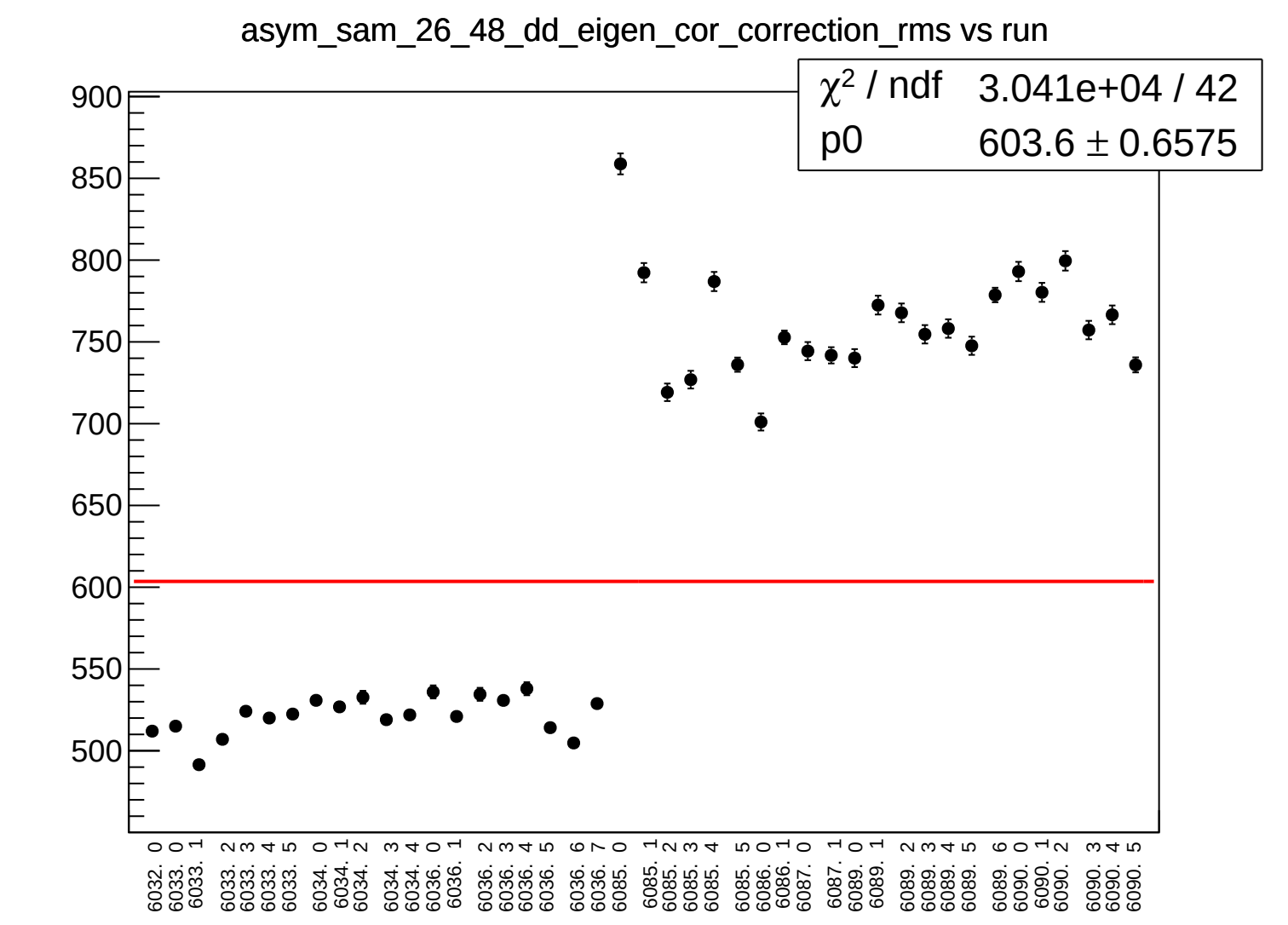

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3.041e+04 / 42
p0 603.6 ± 0.6575
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

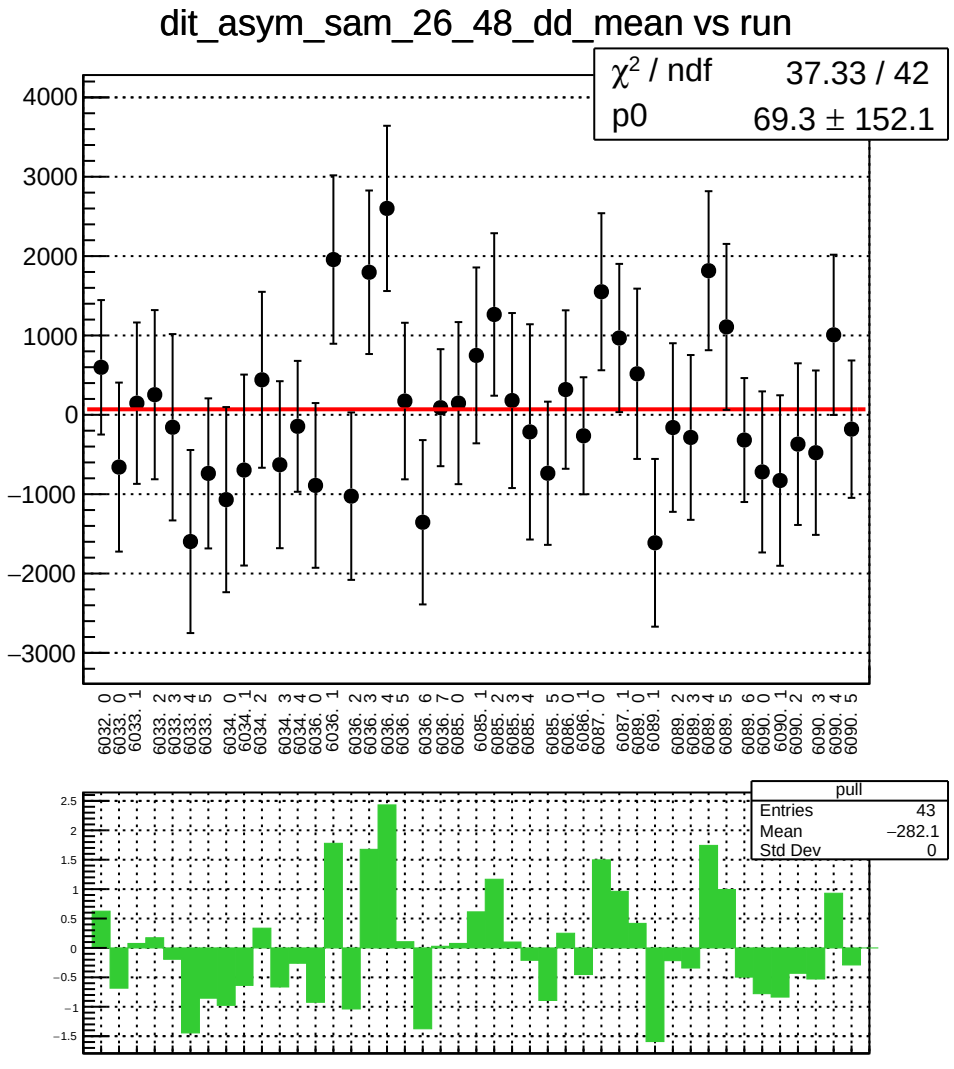

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 35.35 / 42
p0 72.32 ± 145.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −632.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001464
Std Dev 0.9067
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

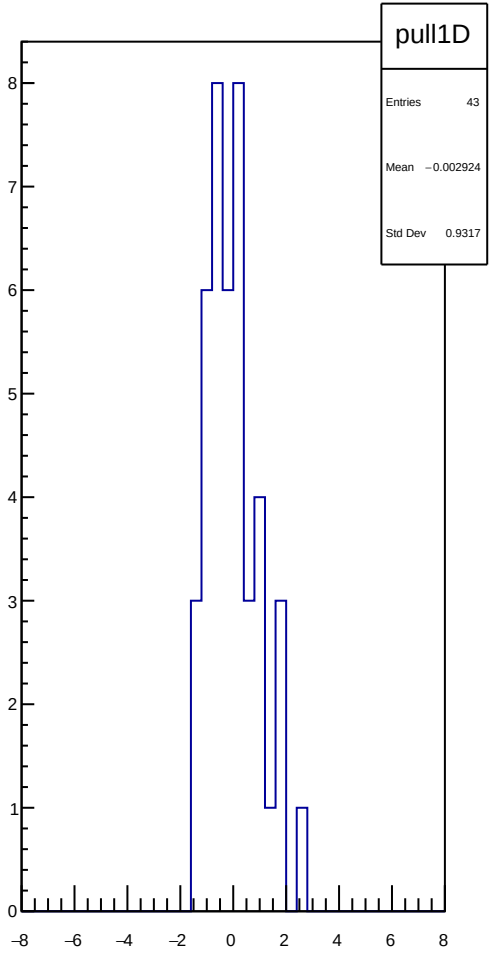

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1903 / 42
p0 96.28 ± 0.1032
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

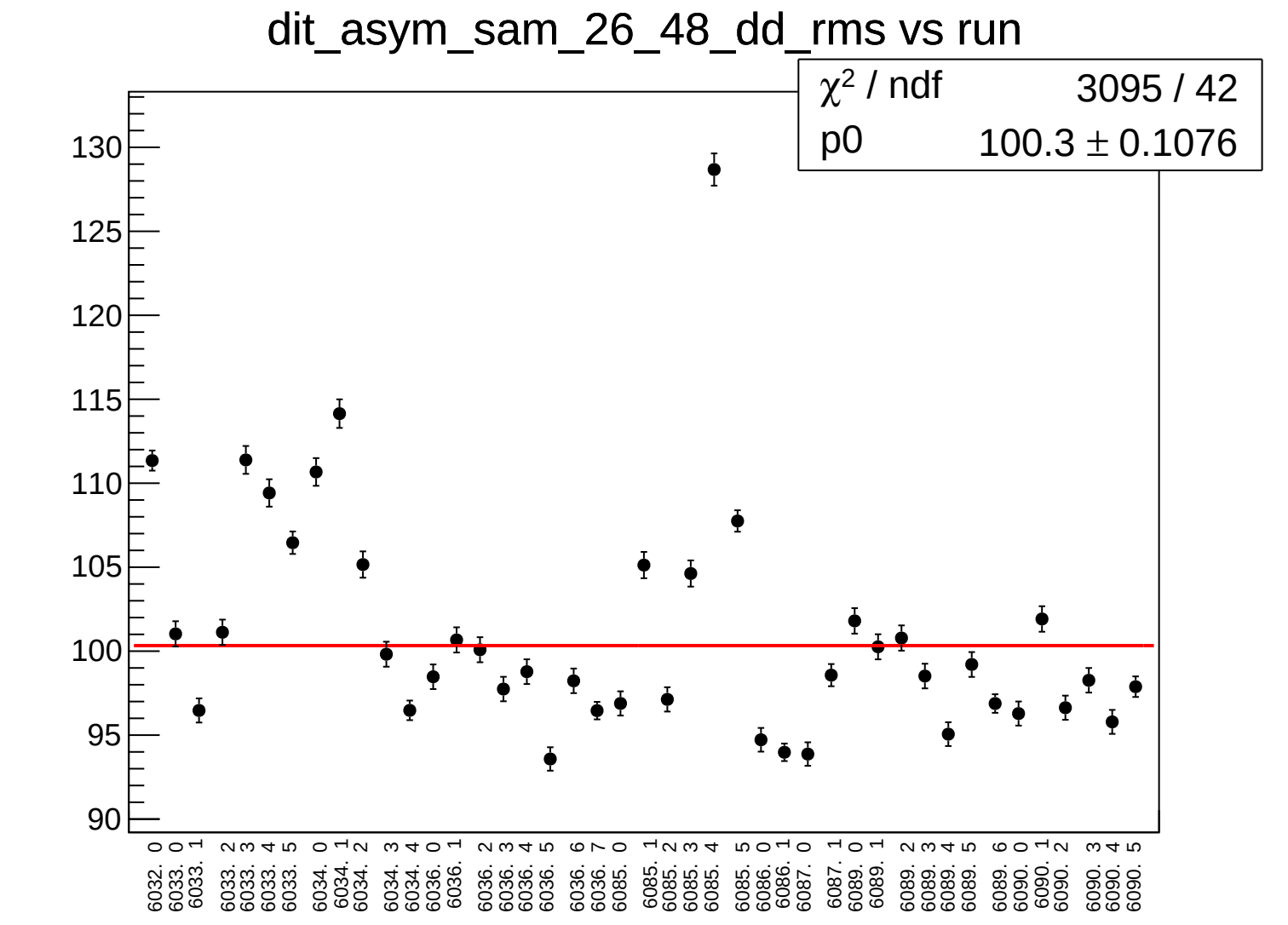

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 49.12 / 42
p0 1996 ± 929.8
pull
Entries 43
Mean 12.57
Std Dev 0

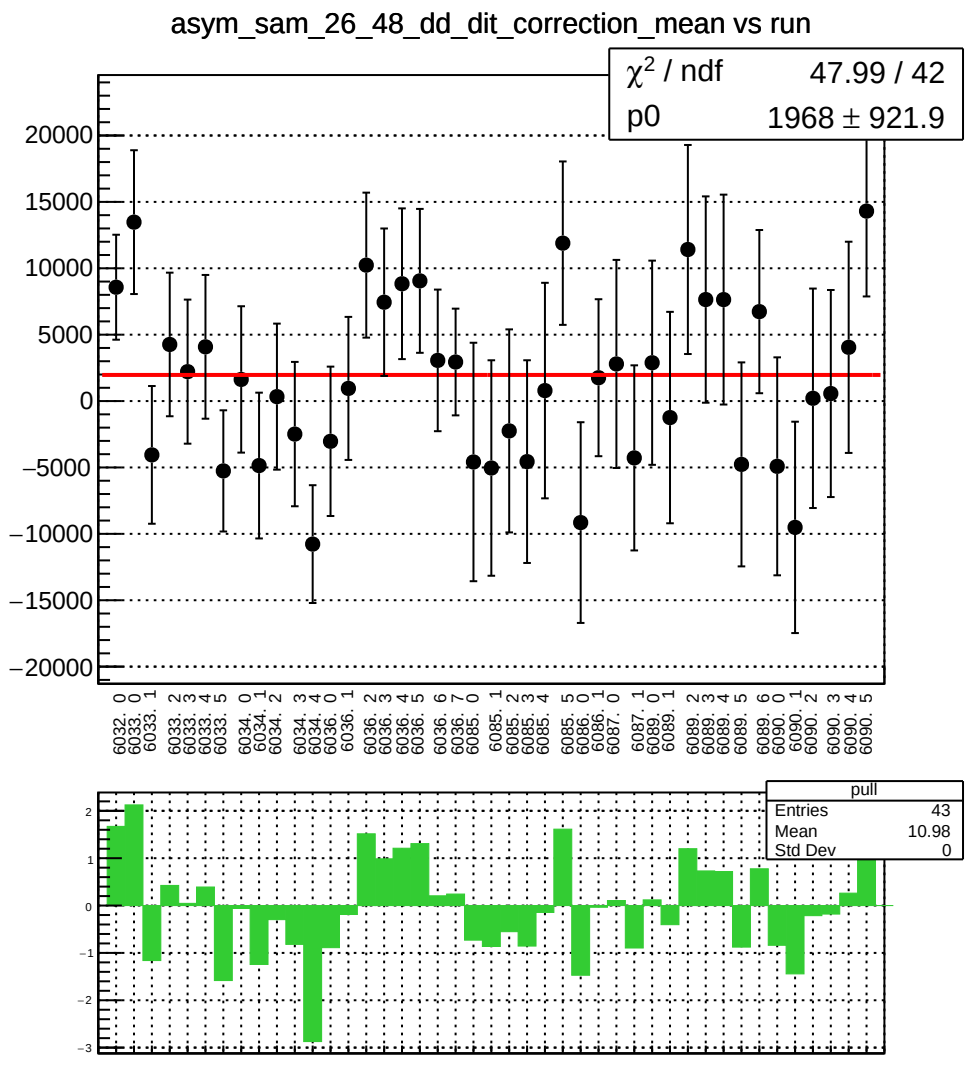

pull1D
Entries 43
Mean −0.02602
Std Dev 1.068

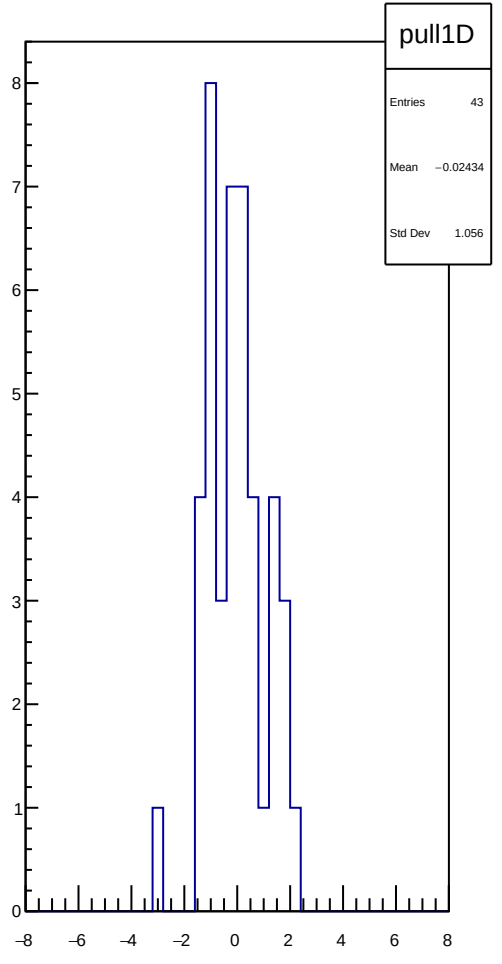

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.041e+04 / 42
p0 603.6 ± 0.6575
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

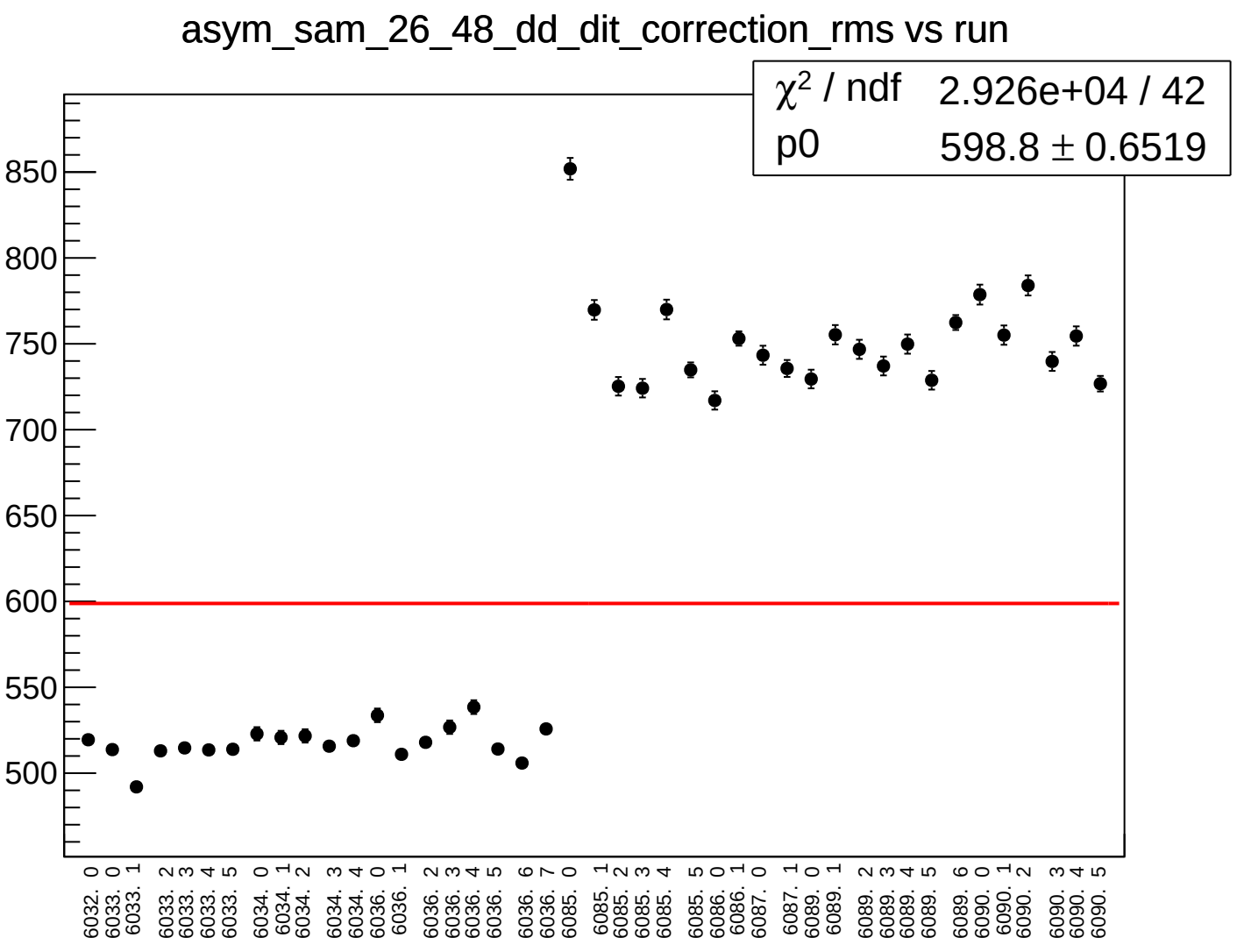

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 37.33 / 42
p0 69.3 ± 152.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −282.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

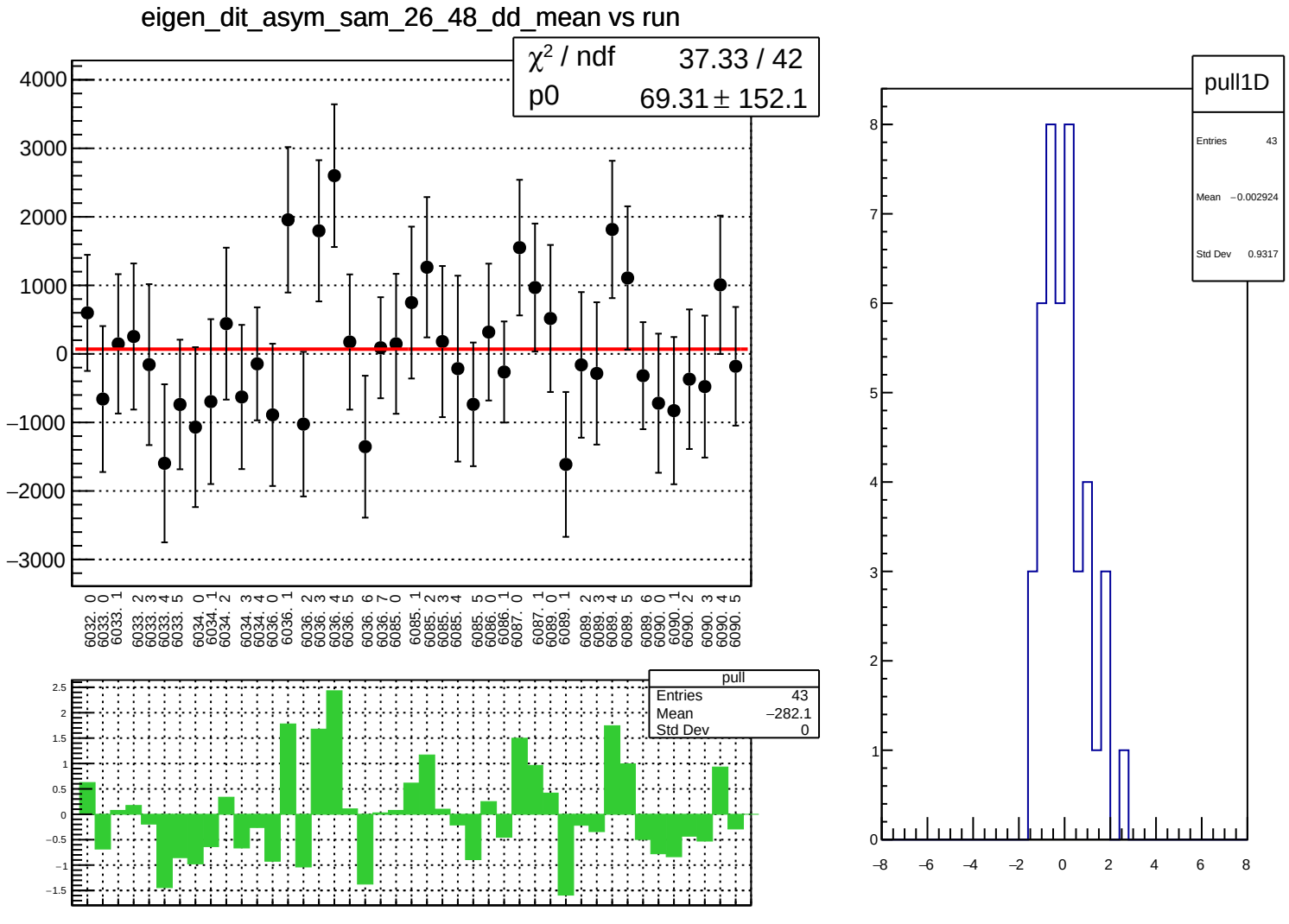

pull1D
Entries 43
Mean −0.002924
Std Dev 0.9317
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

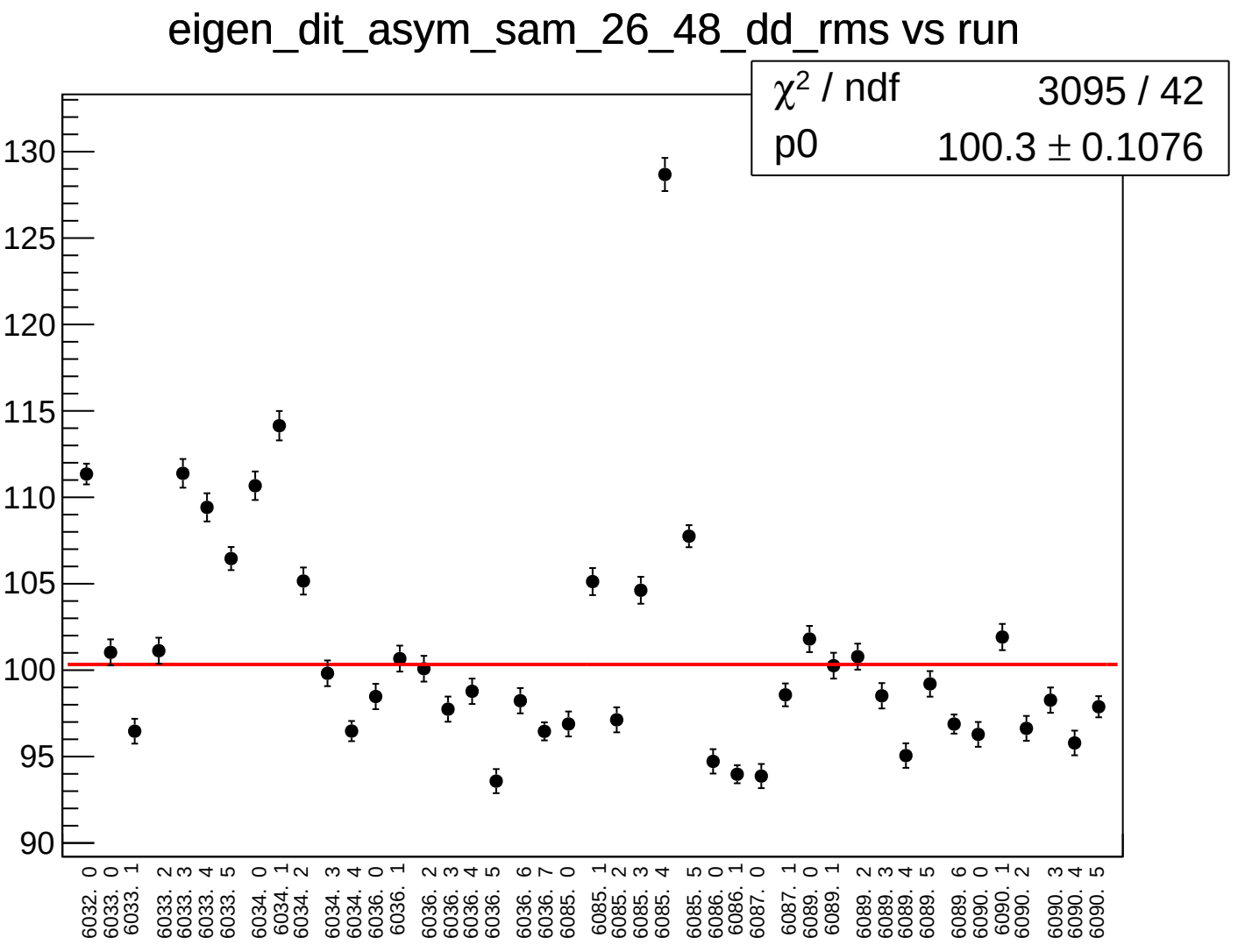

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3095 / 42
p0 100.3 ± 0.1076
130
125
120
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

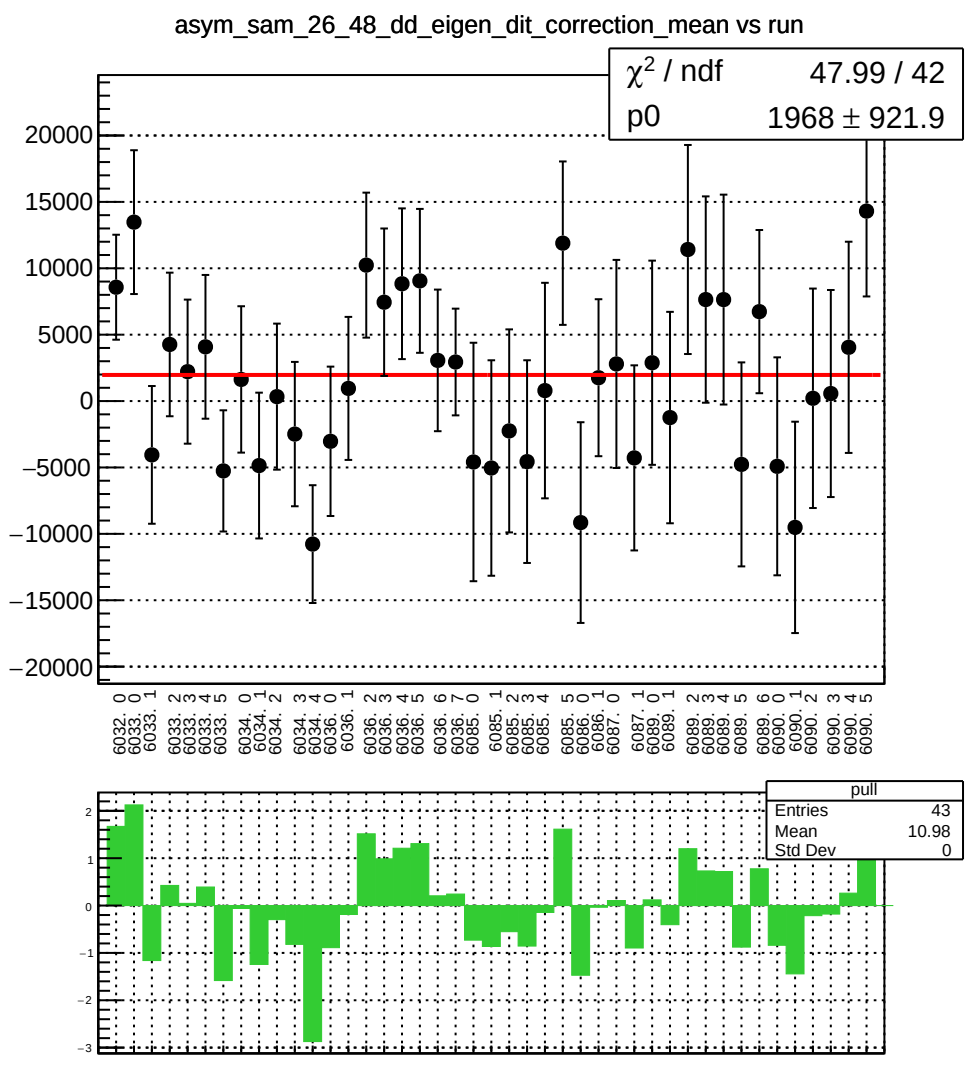

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 47.99 / 42
p0 1968 ± 921.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.98
Std Dev 0
2
1
0
−1
−2
−3

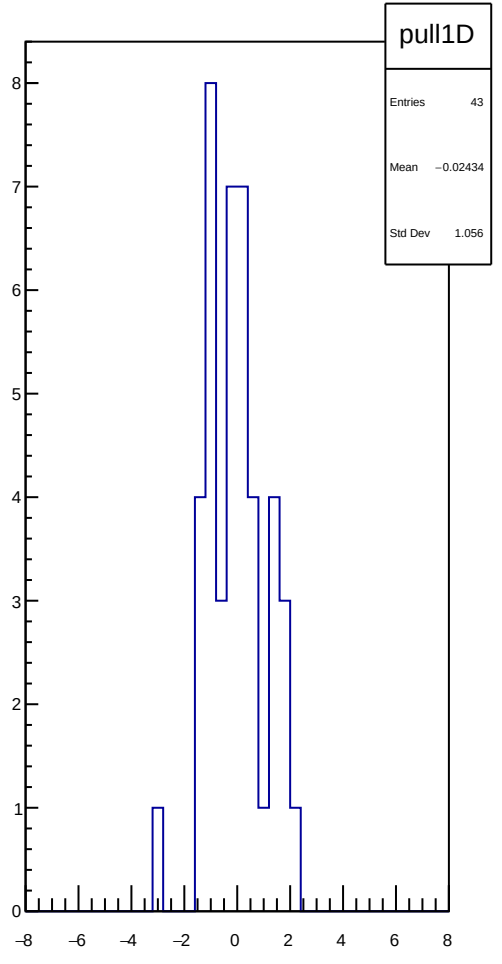

pull1D
Entries 43
Mean −0.02434
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

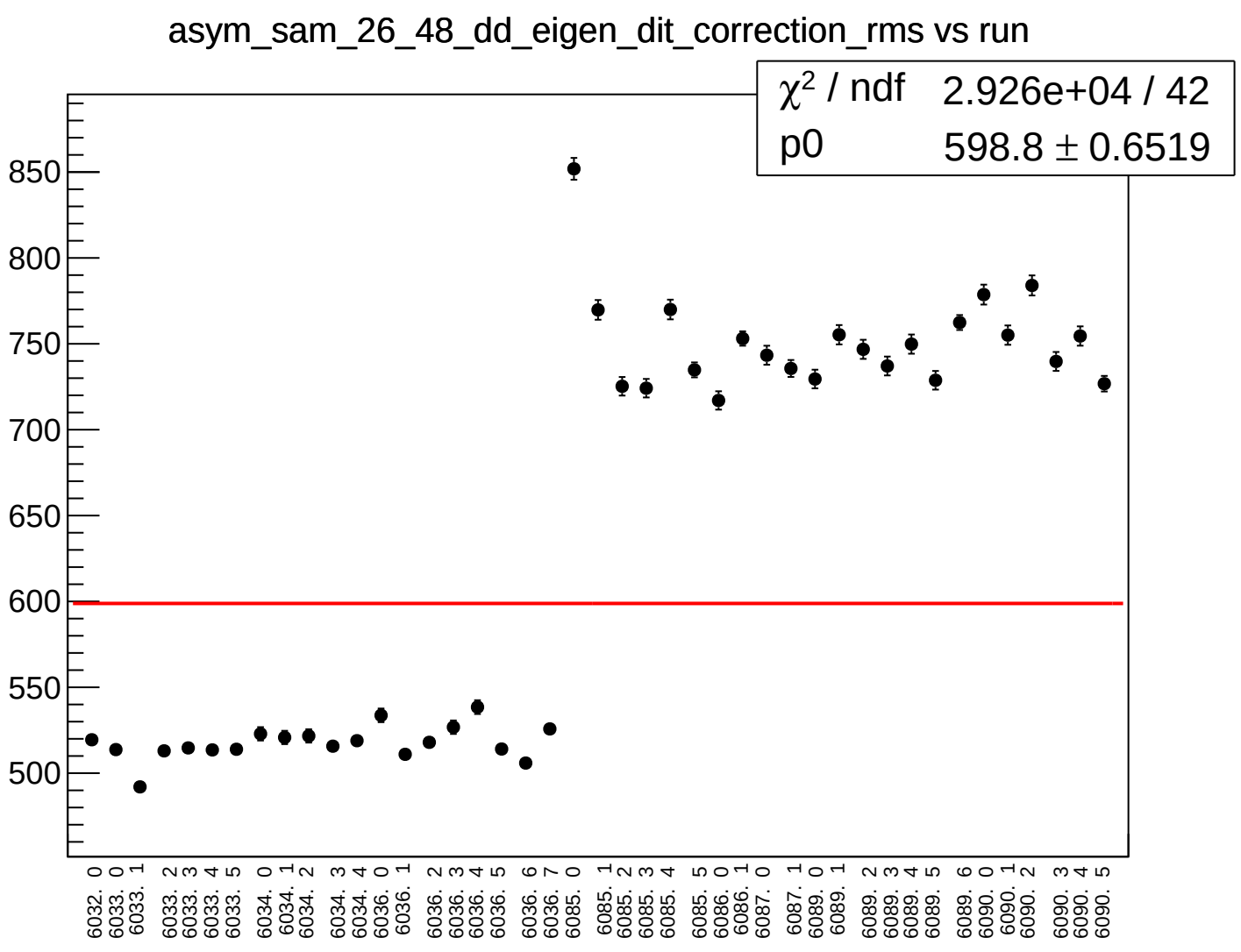

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2.926e+04 / 42
p0 598.8 ± 0.6519
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

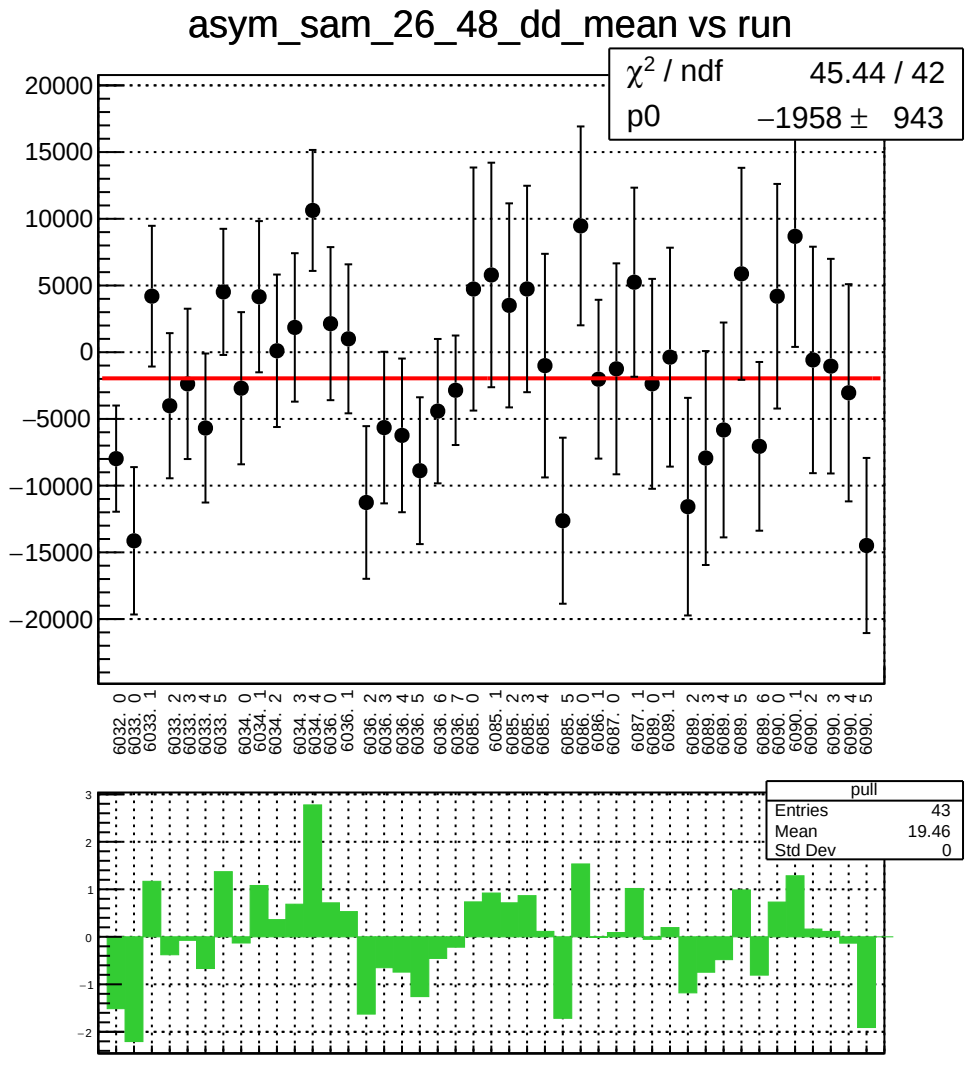

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 37.33 / 42
p0 69.31 ± 152.1
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −282.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.002924
Std Dev 0.9317
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

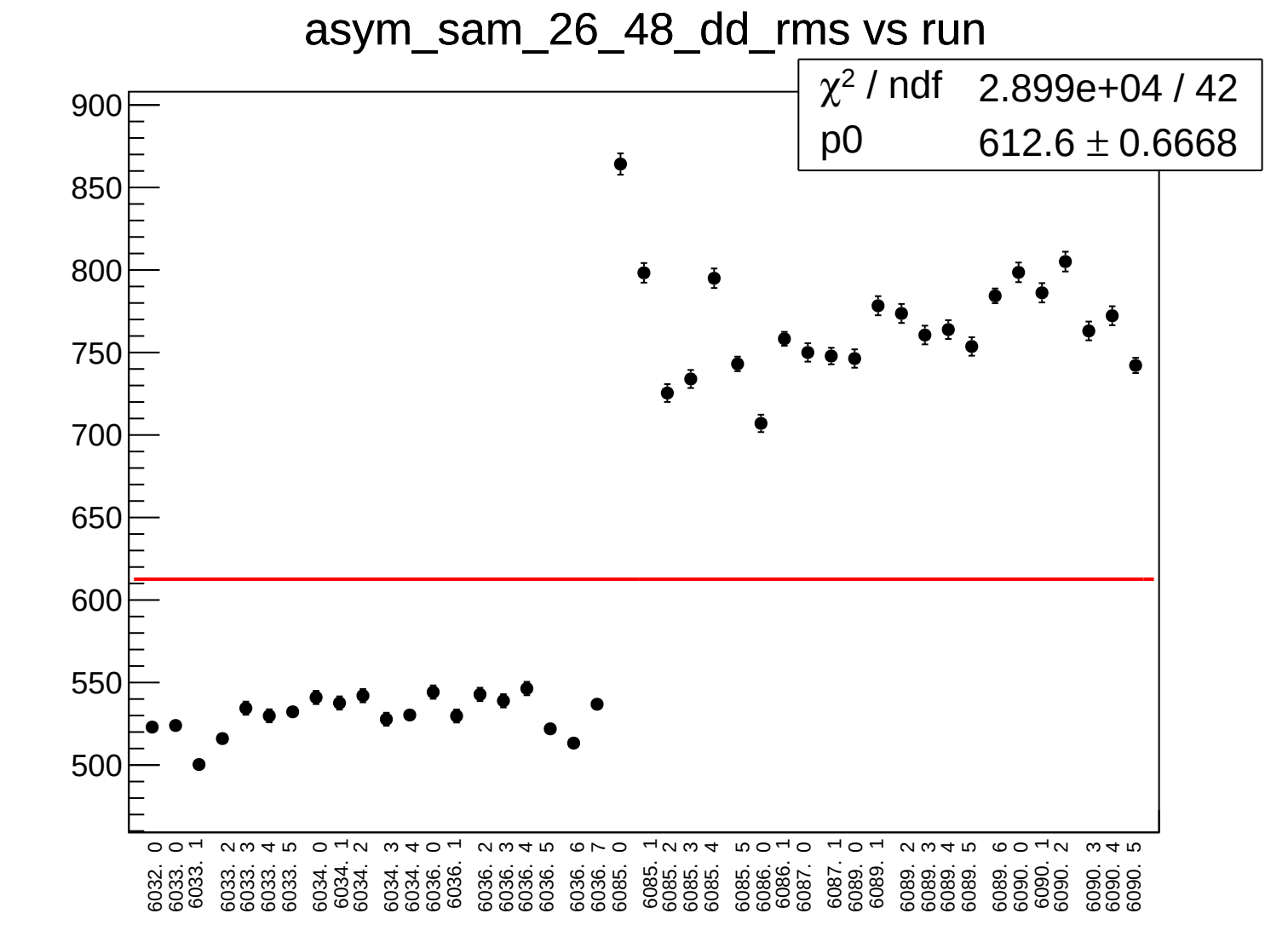

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3095 / 42
p0 100.3 ± 0.1076
130
125
120
115
110
105
100
95
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

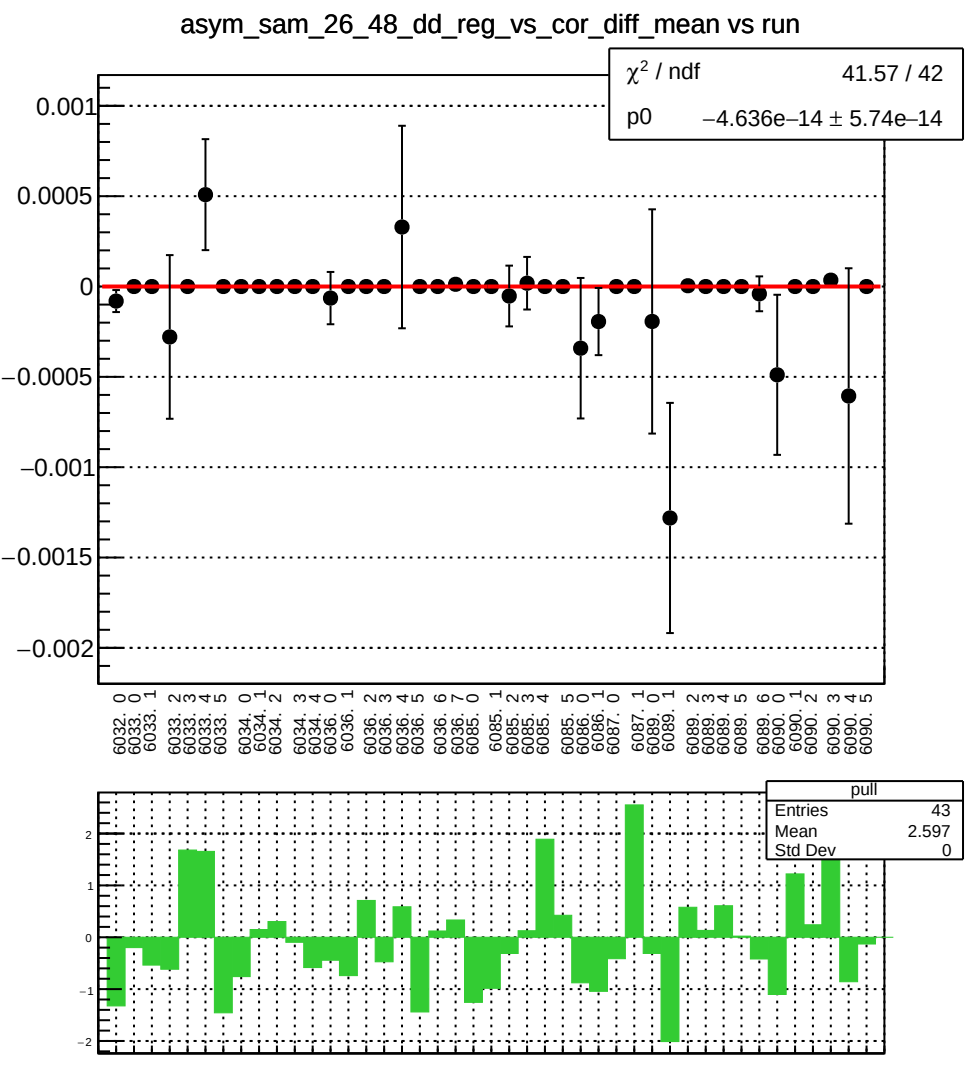

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.99 / 42
p0 1968 ± 921.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.98
Std Dev 0
2
1
0
−1
−2
−3

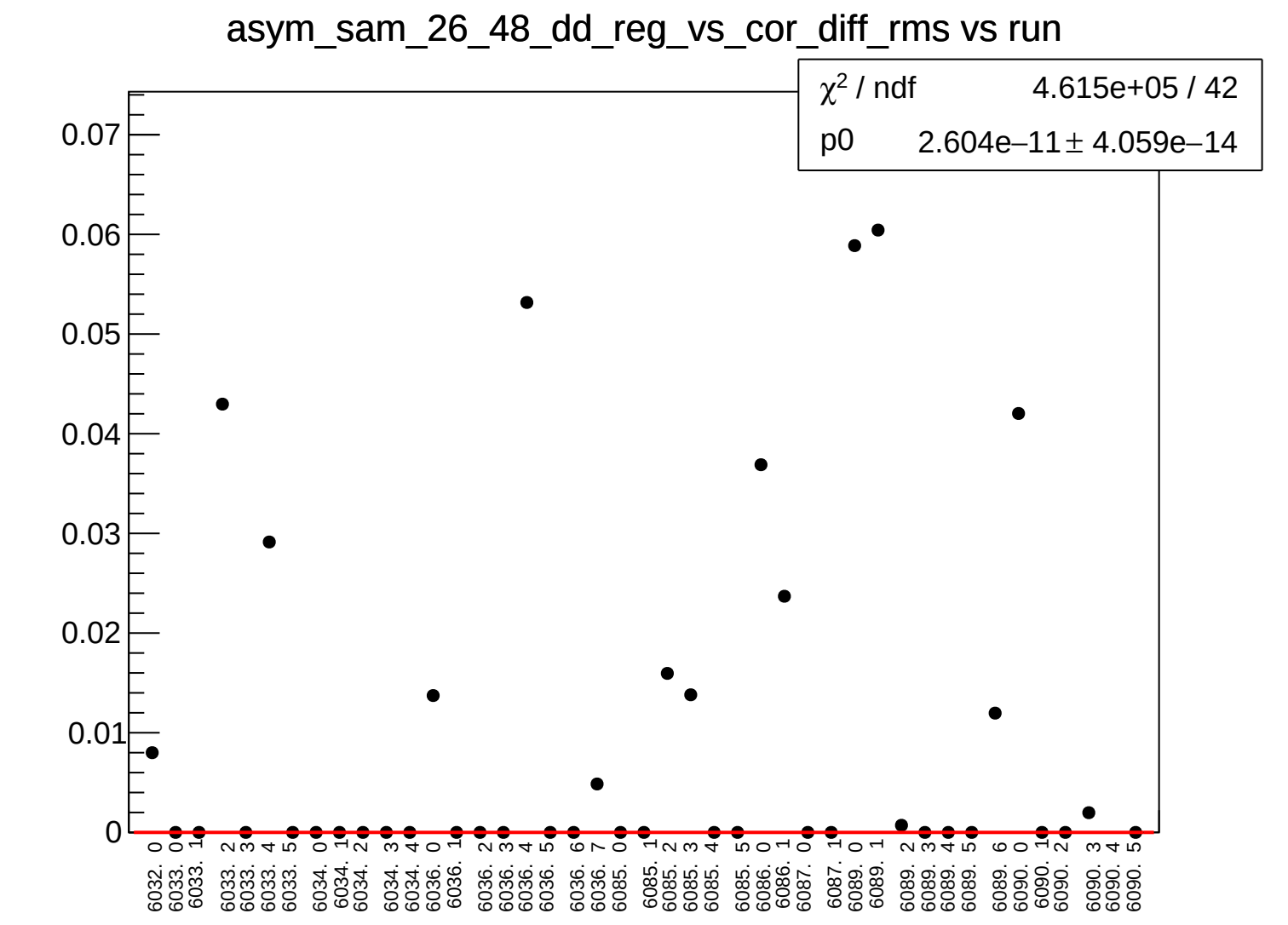

pull1D
Entries 43
Mean −0.02434
Std Dev 1.056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

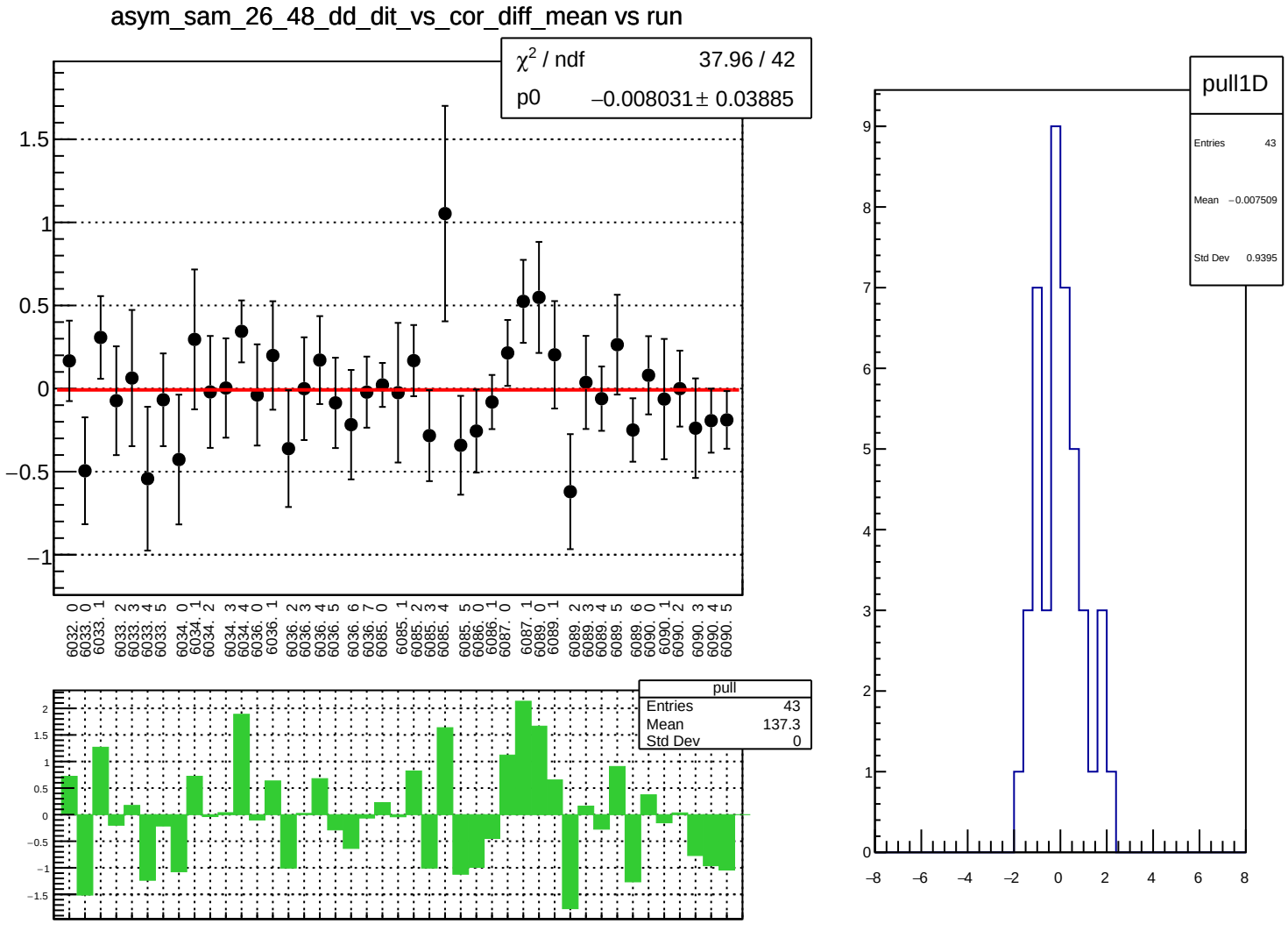

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.926e+04 / 42
p0 598.8 ± 0.6519
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

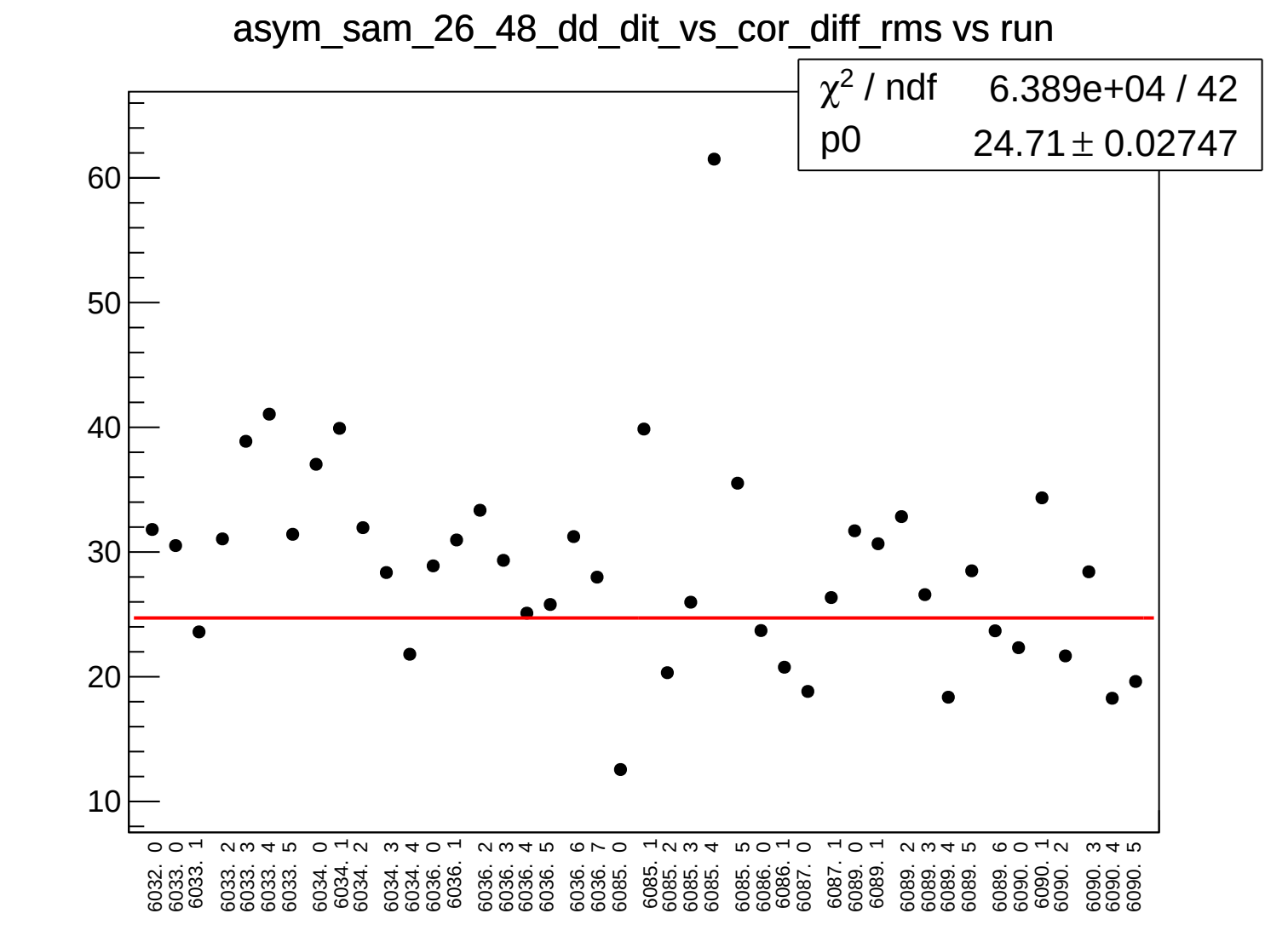

asym_sam_26_48_dd_mean vs run
χ² / ndf 45.44 / 42
p0 −1958 ± 943
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.46
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02802
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

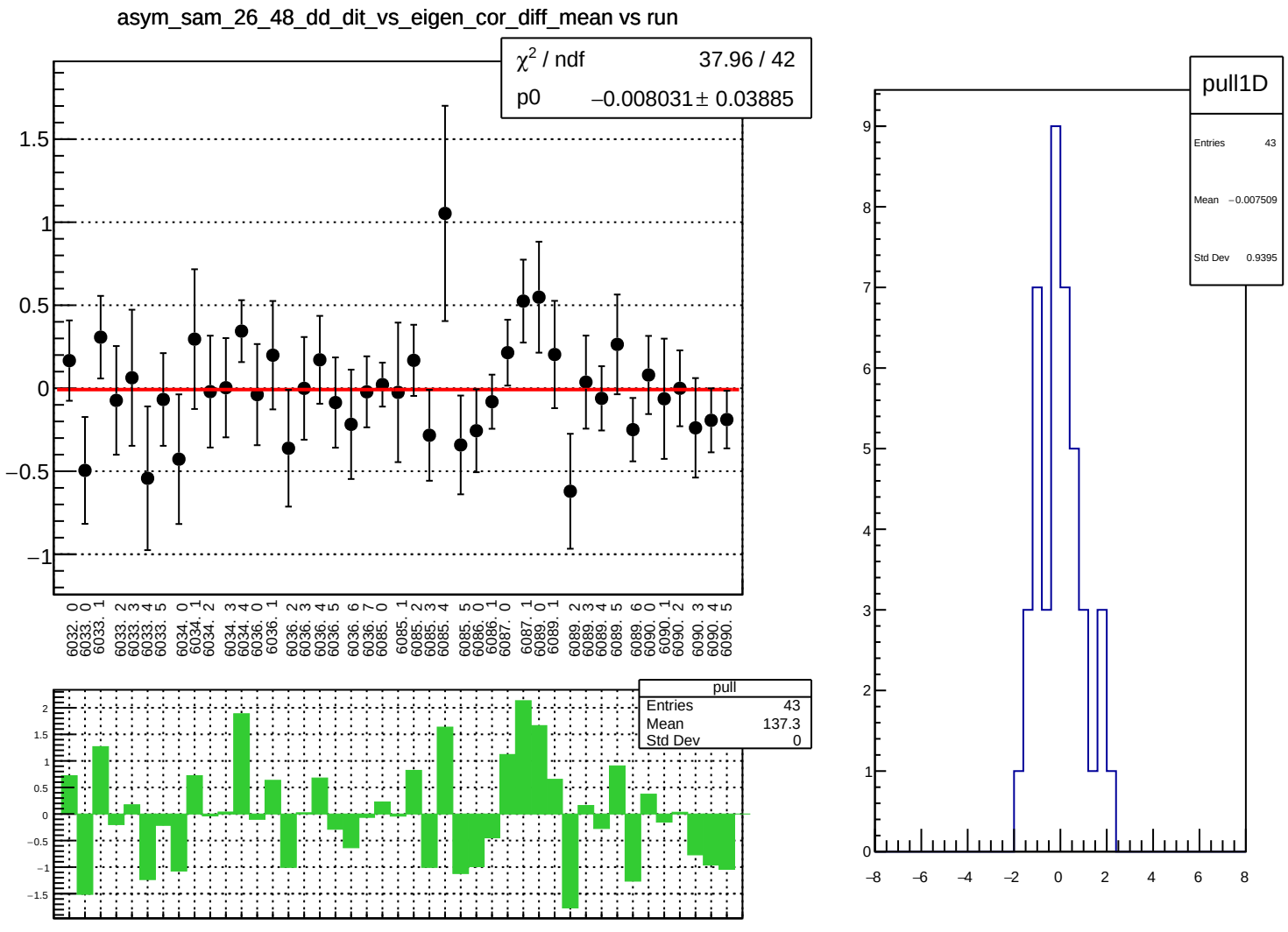

asym_sam_26_48_dd_rms vs run
χ² / ndf 2.899e+04 / 42
p0 612.6 ± 0.6668
900
850
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

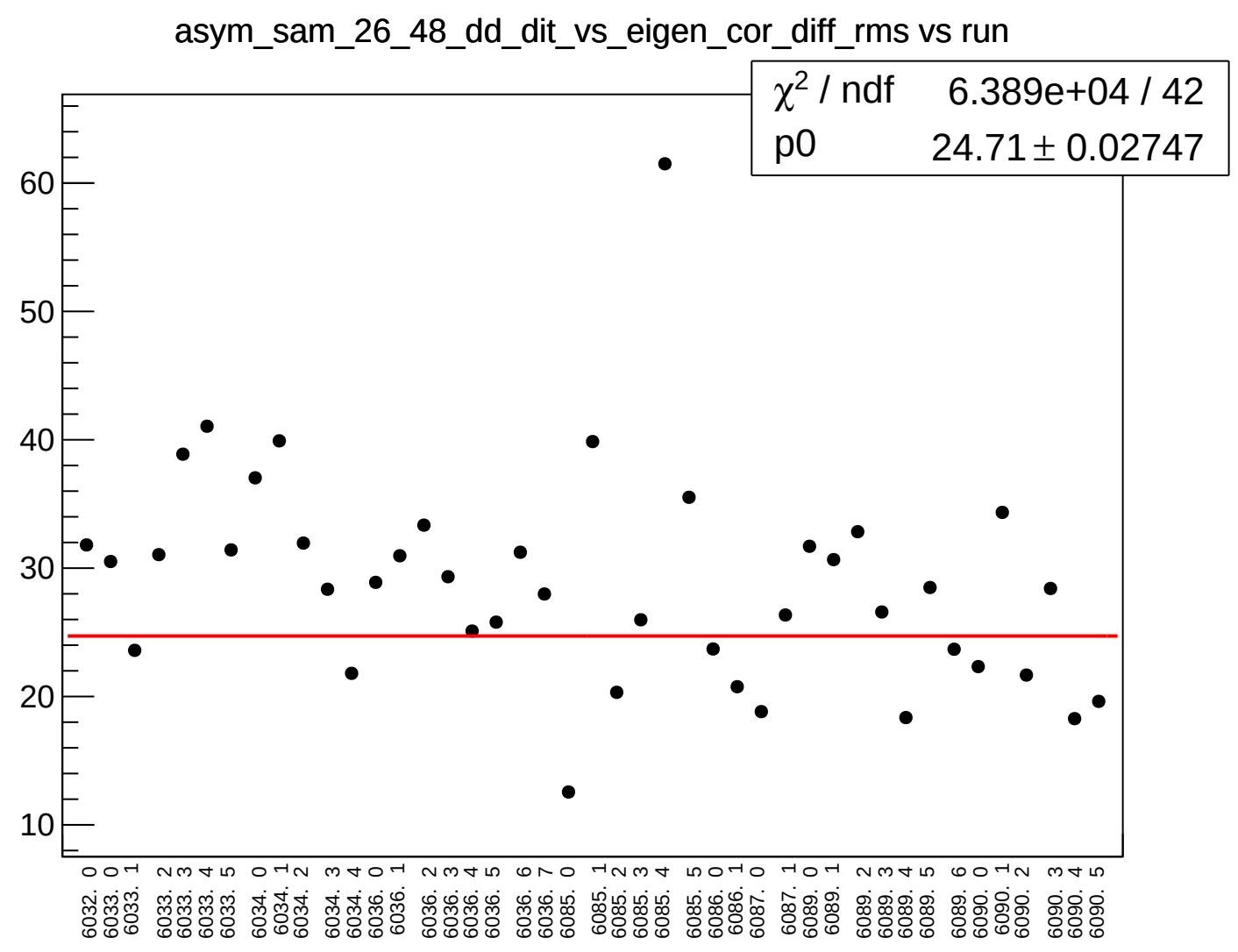

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 41.57 / 42
p0 −4.636e−14 ± 5.74e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 2.597
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.07803
Std Dev 0.9801
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

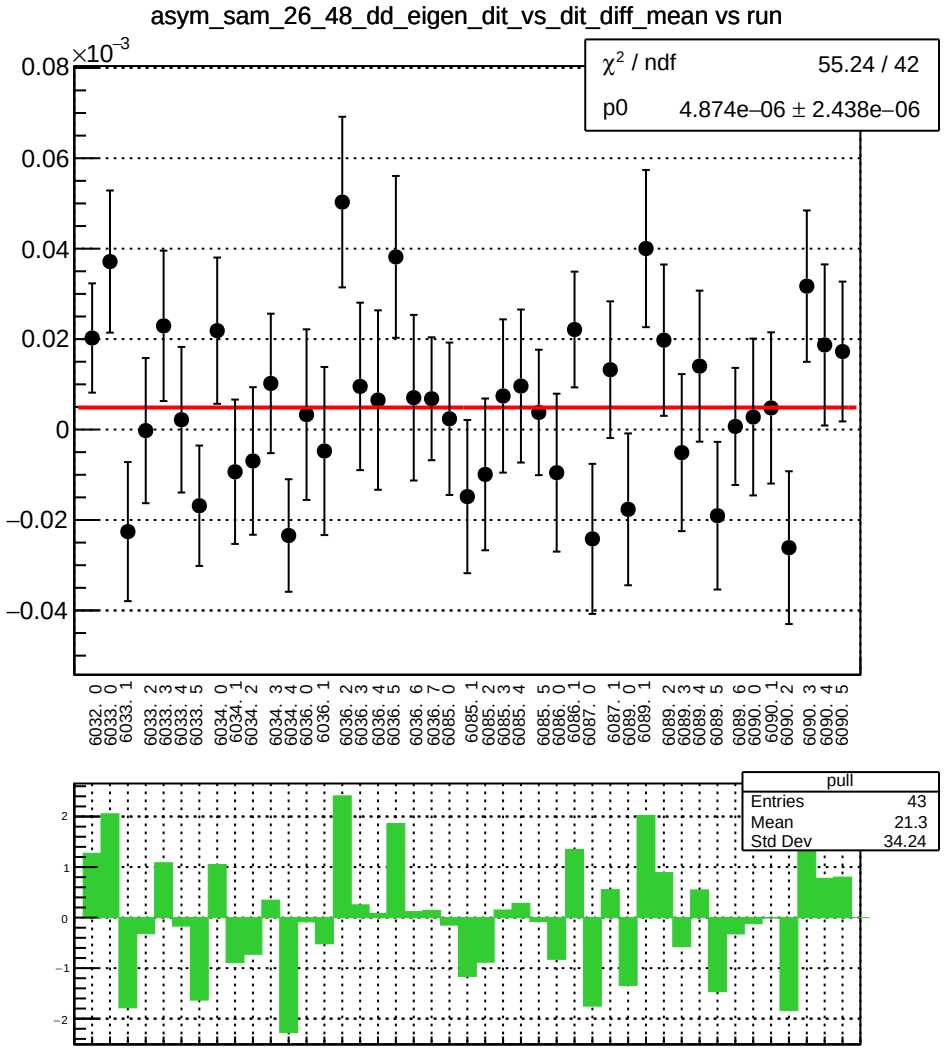

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.615e+05 / 42
p0 2.604e−11 ± 4.059e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

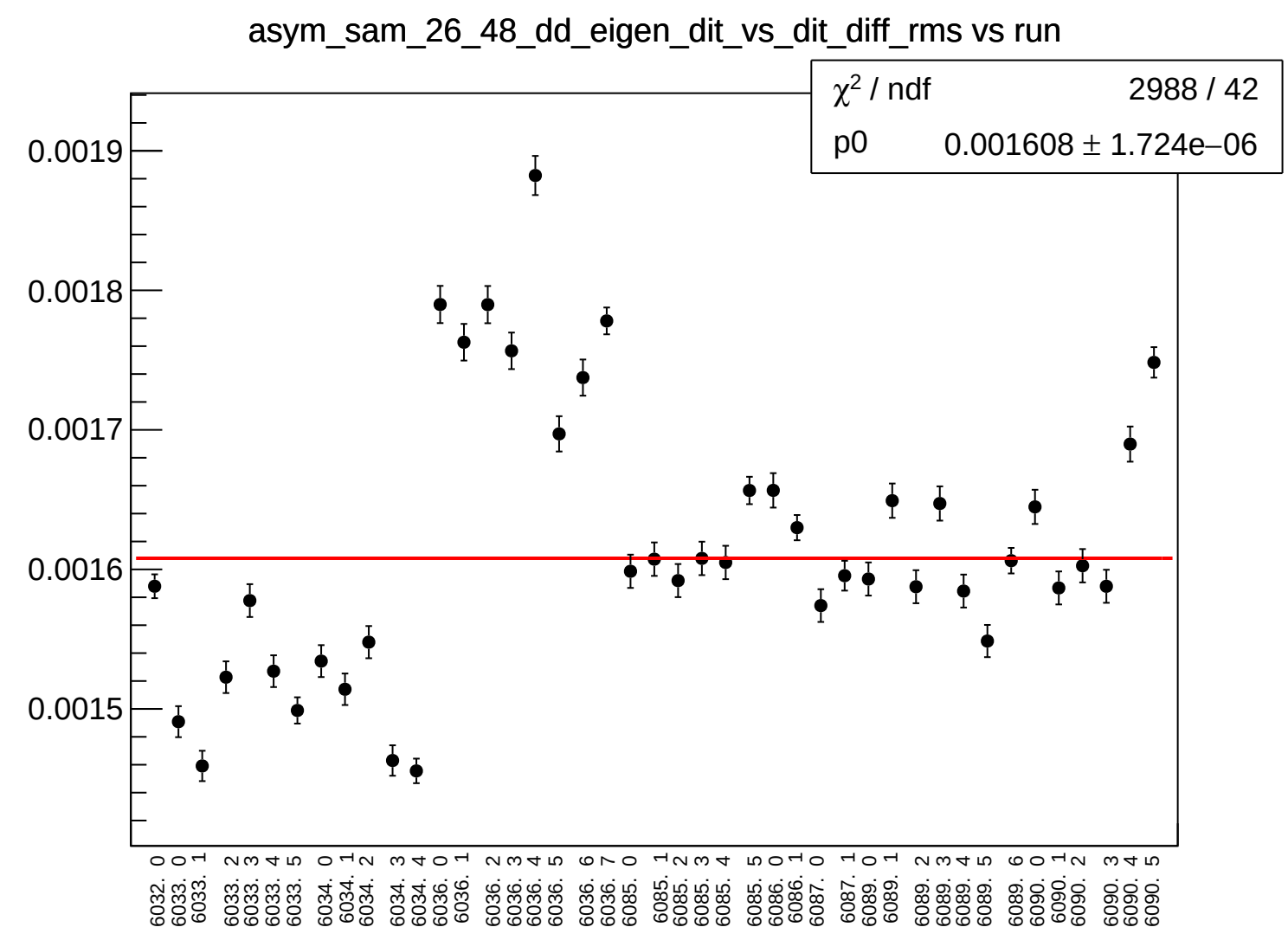

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.96 / 42
p0 −0.008031 ± 0.03885
pull
Entries 43
Mean 137.3
Std Dev 0
pull1D
Entries 43
Mean −0.007509
Std Dev 0.9395

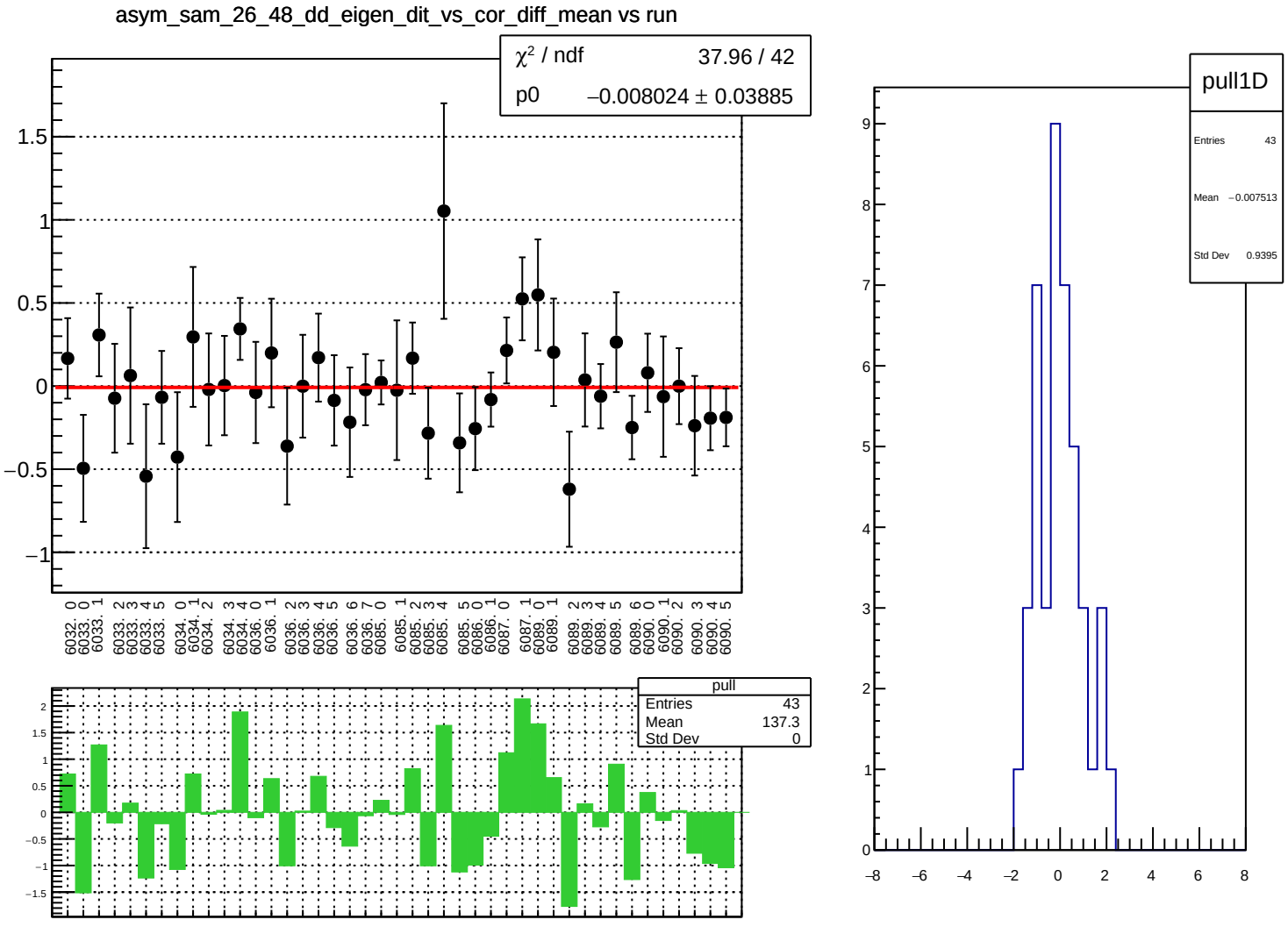

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.389e+04 / 42
p0 24.71 ± 0.02747
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

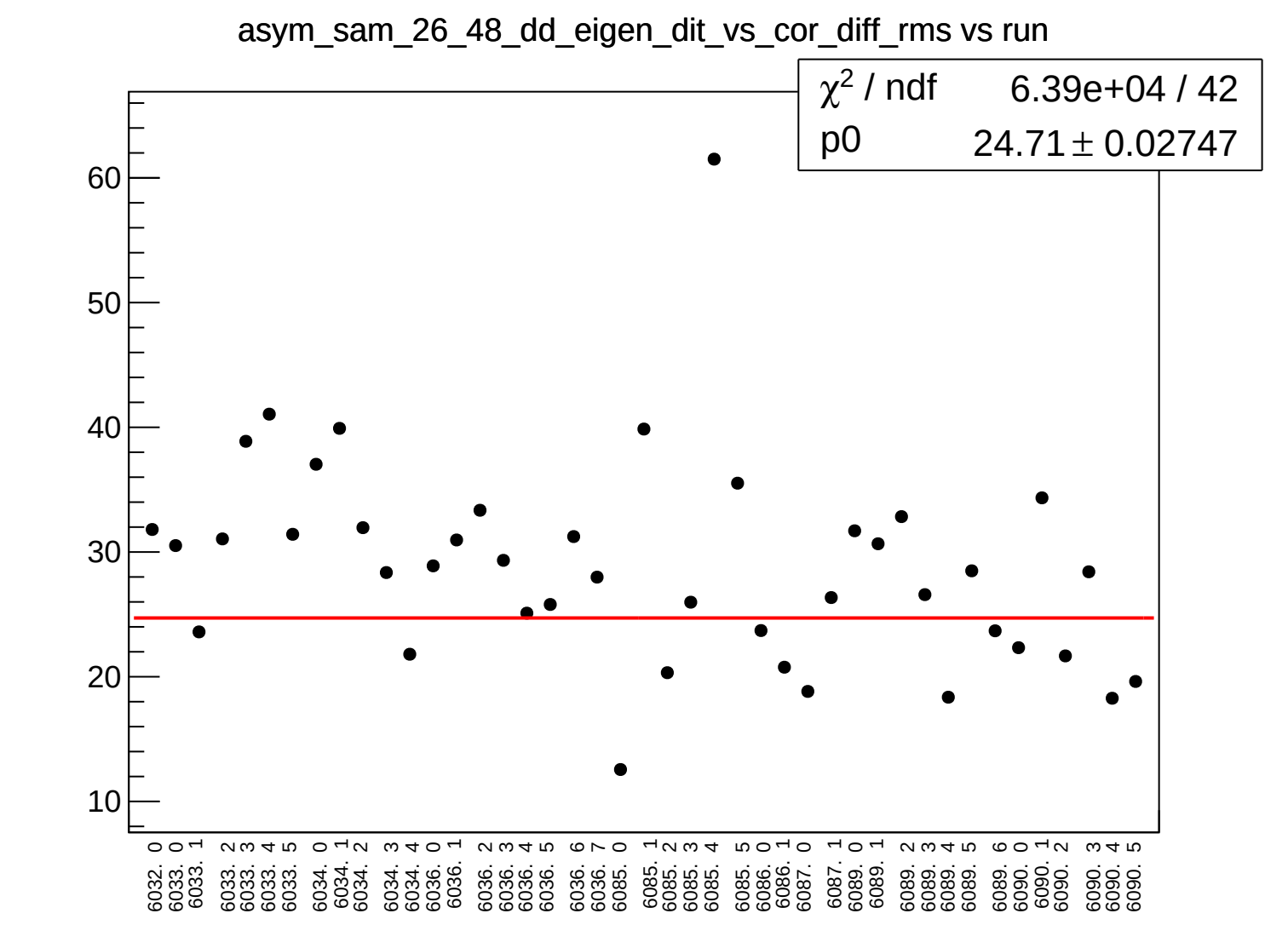

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.96 / 42
p0 −0.008031 ± 0.03885
pull
Entries 43
Mean 137.3
Std Dev 0
pull1D
Entries 43
Mean −0.007509
Std Dev 0.9395

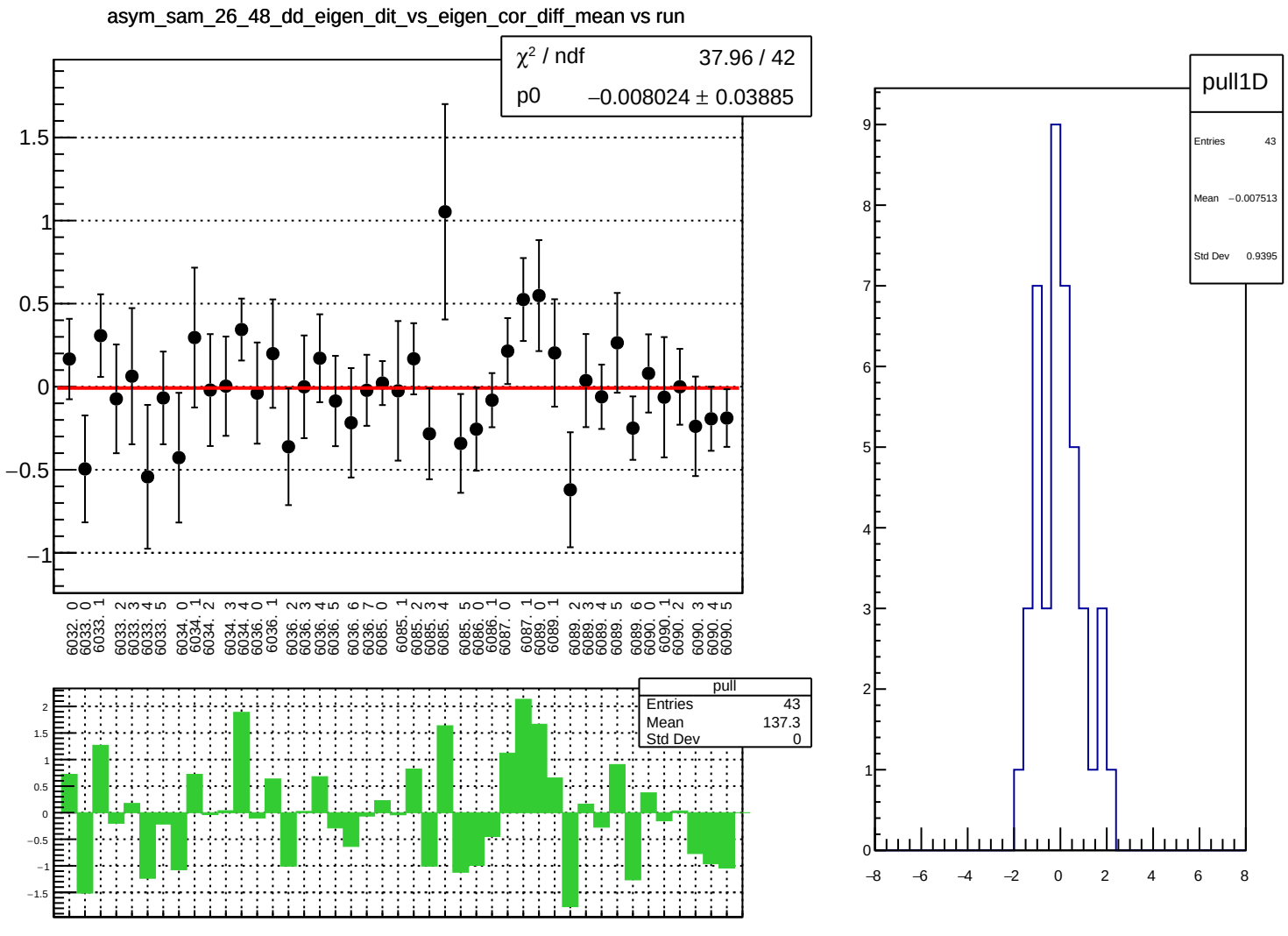

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.389e+04 / 42
p0 24.71 ± 0.02747
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

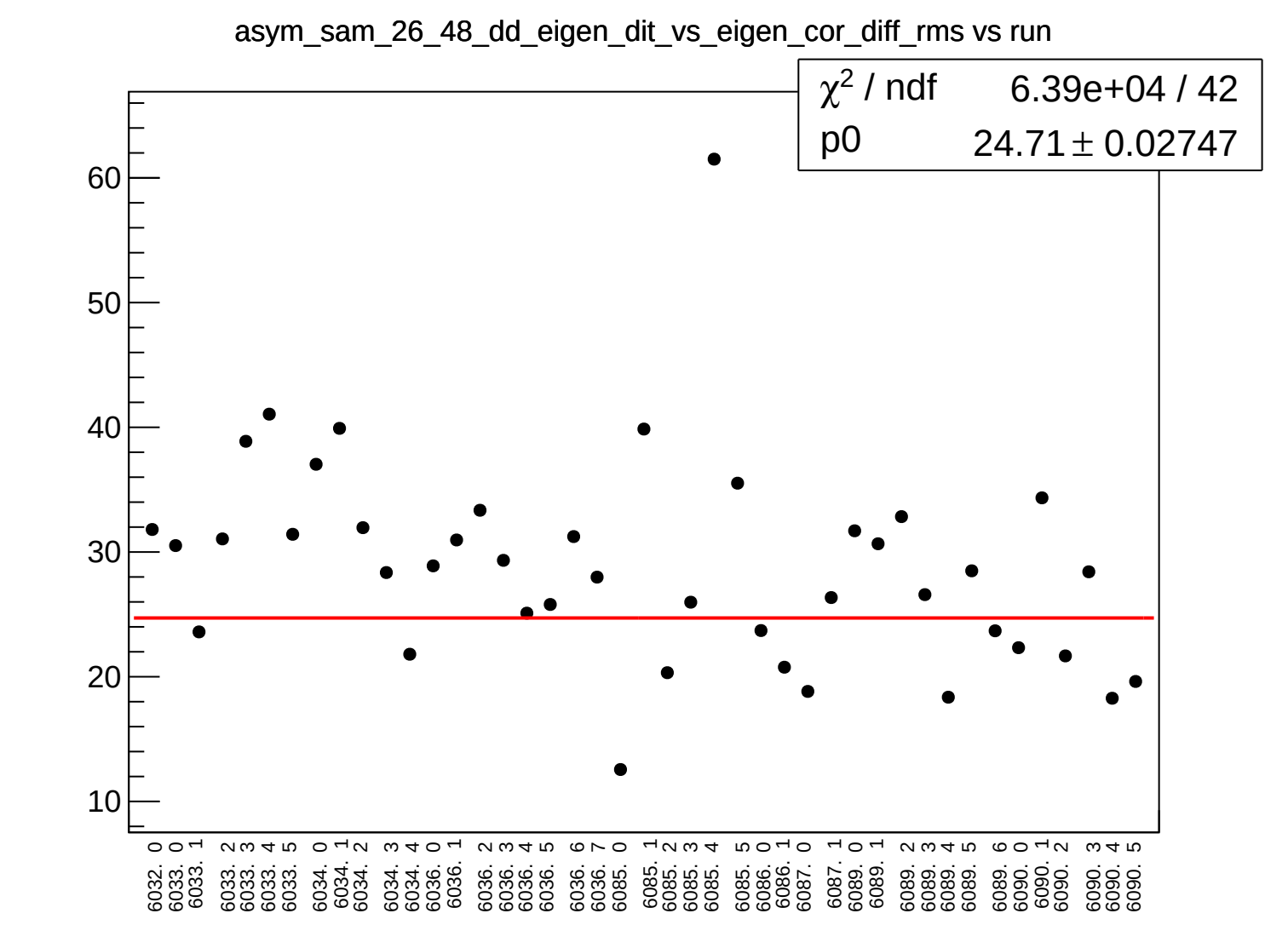

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.24 / 42
p0 4.874e−06 ± 2.438e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.3
Std Dev 34.24
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01727
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

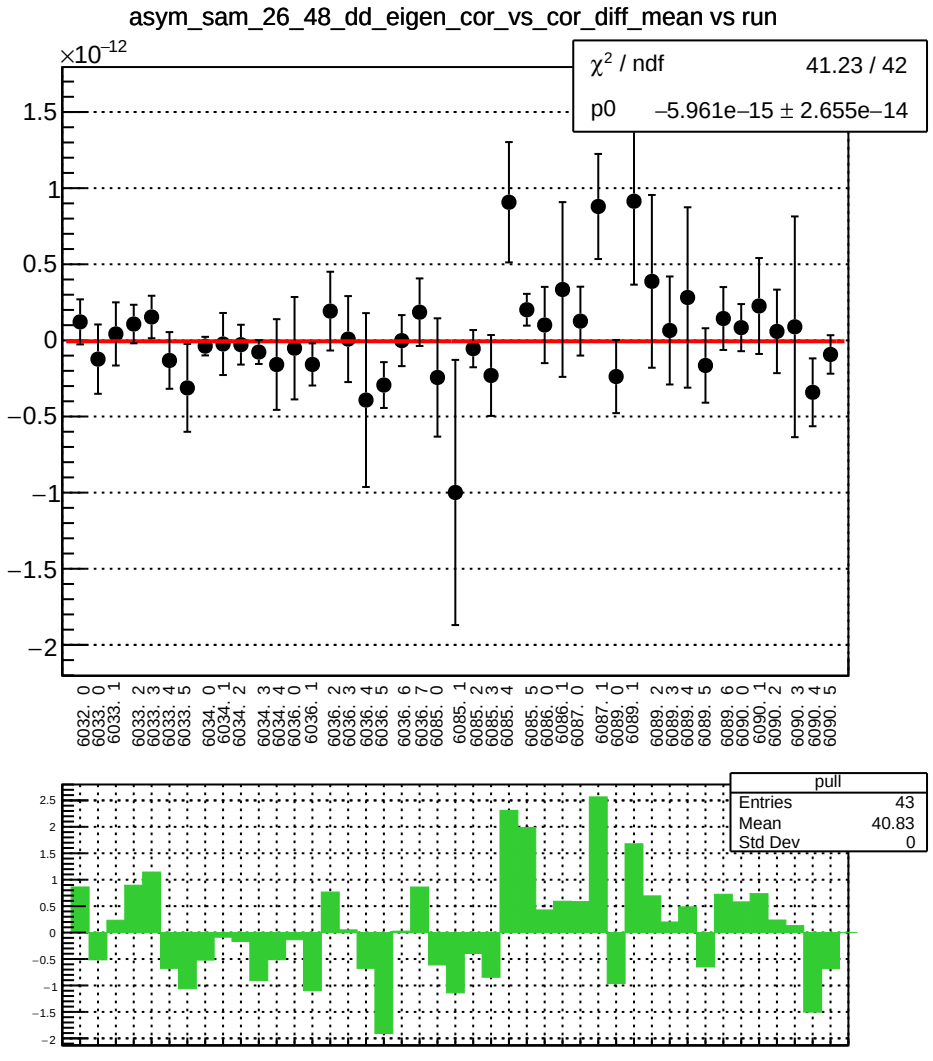

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2988 / 42
p0 0.001608 ± 1.724e−06
0.0019
0.0018
0.0017
0.0016
0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

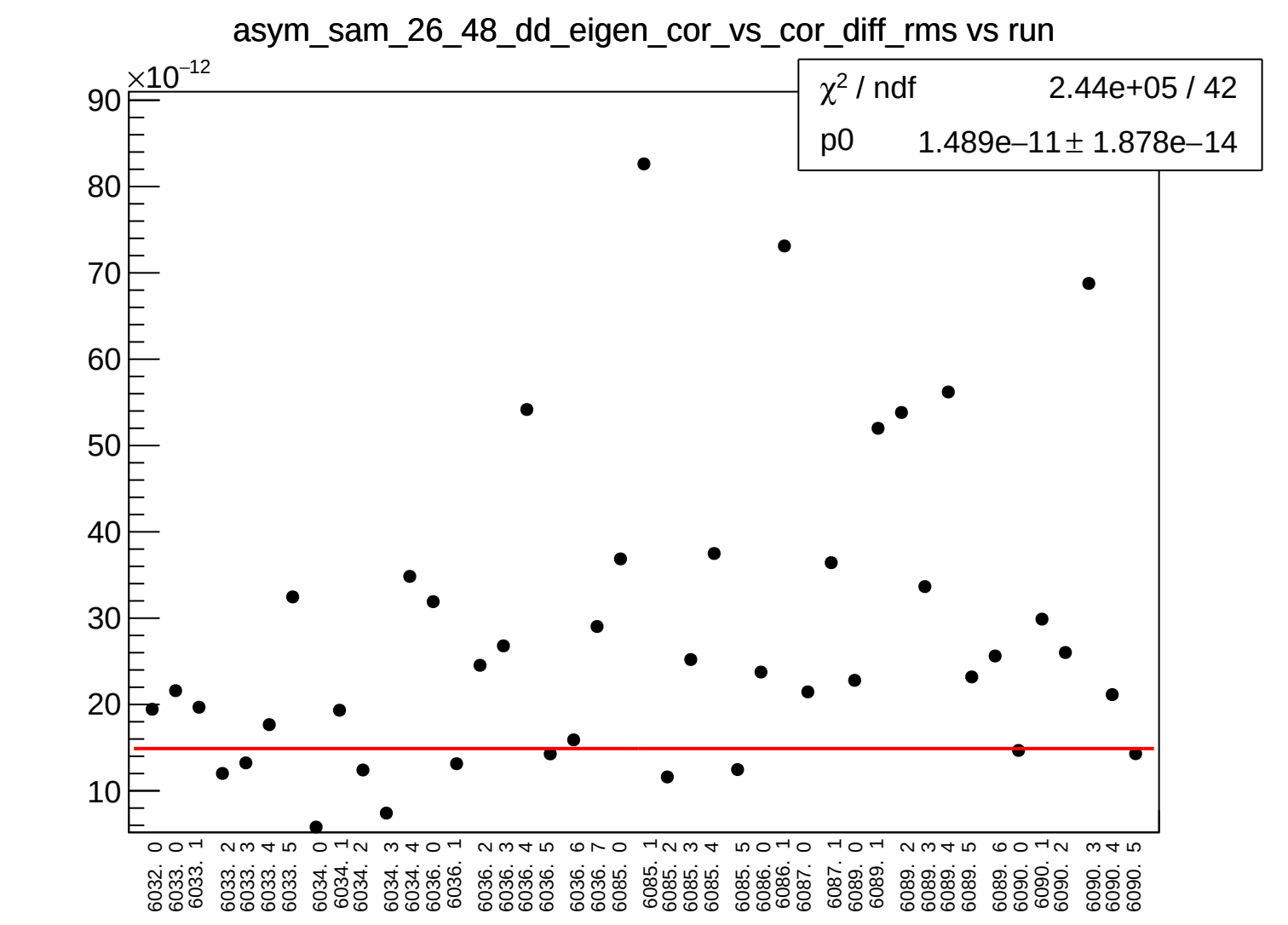

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.96 / 42
p0 −0.008024 ± 0.03885
pull
Entries 43
Mean 137.3
Std Dev 0
pull1D
Entries 43
Mean −0.007513
Std Dev 0.9395

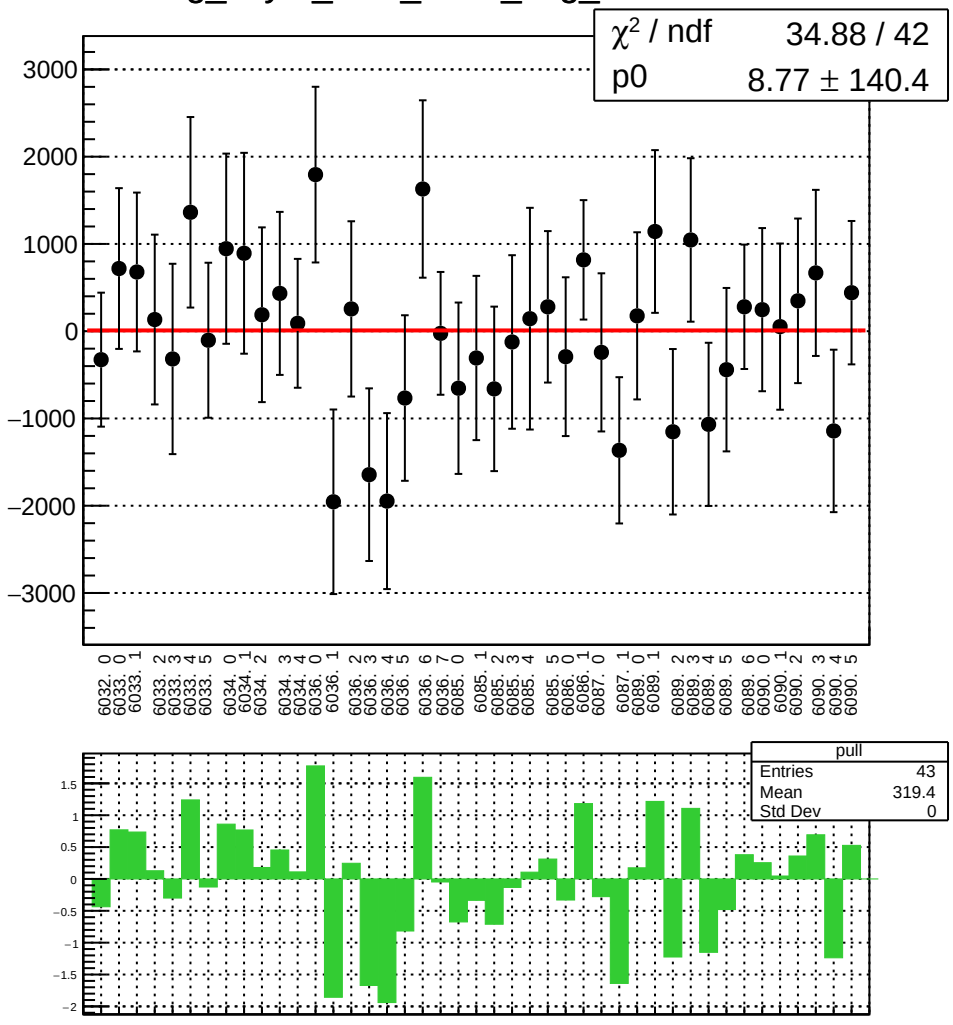

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.39e+04 / 42
p0 24.71 ± 0.02747
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

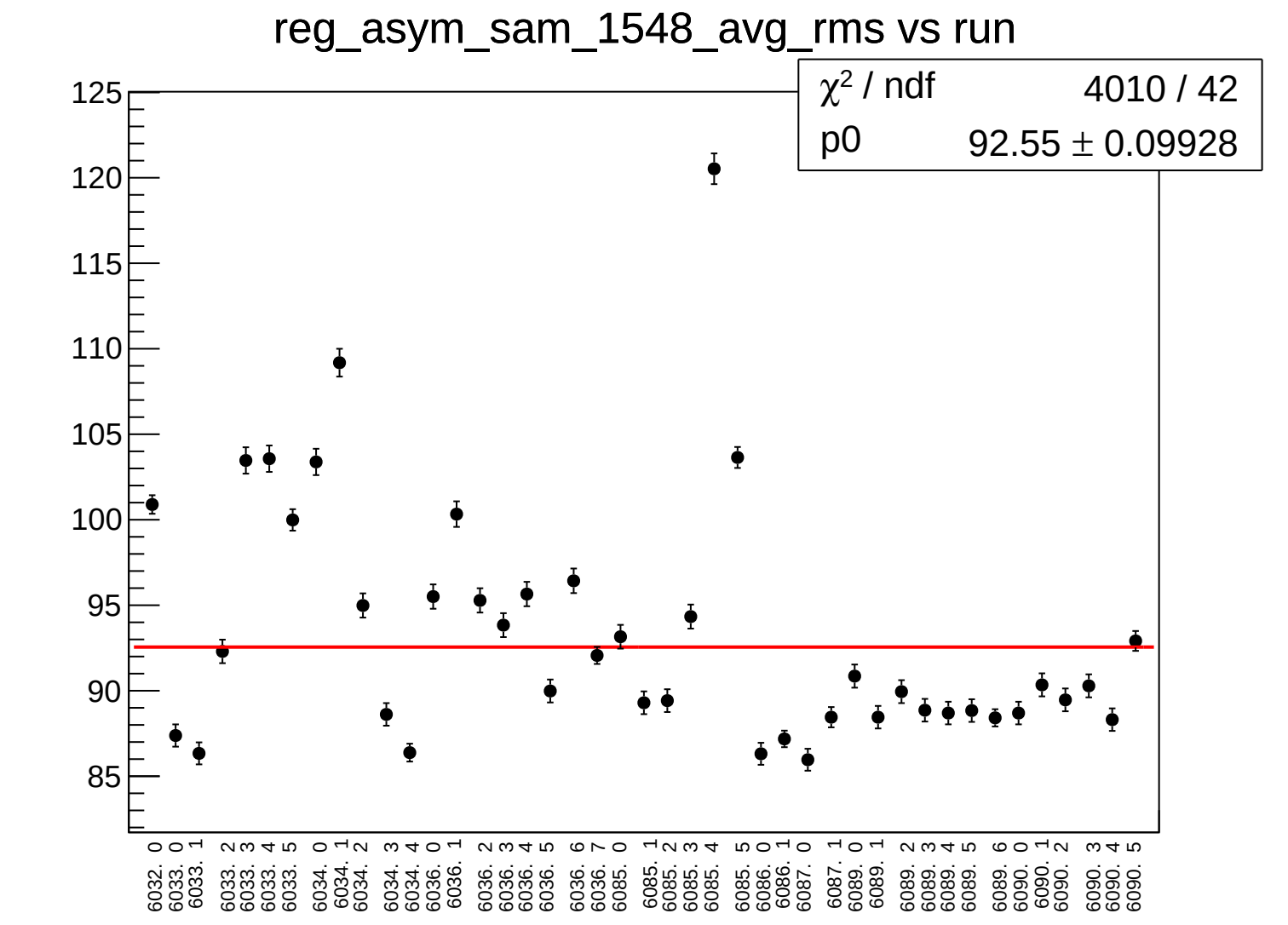

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.96 / 42
p0 −0.008024 ± 0.03885
pull
Entries 43
Mean 137.3
Std Dev 0
pull1D
Entries 43
Mean −0.007513
Std Dev 0.9395

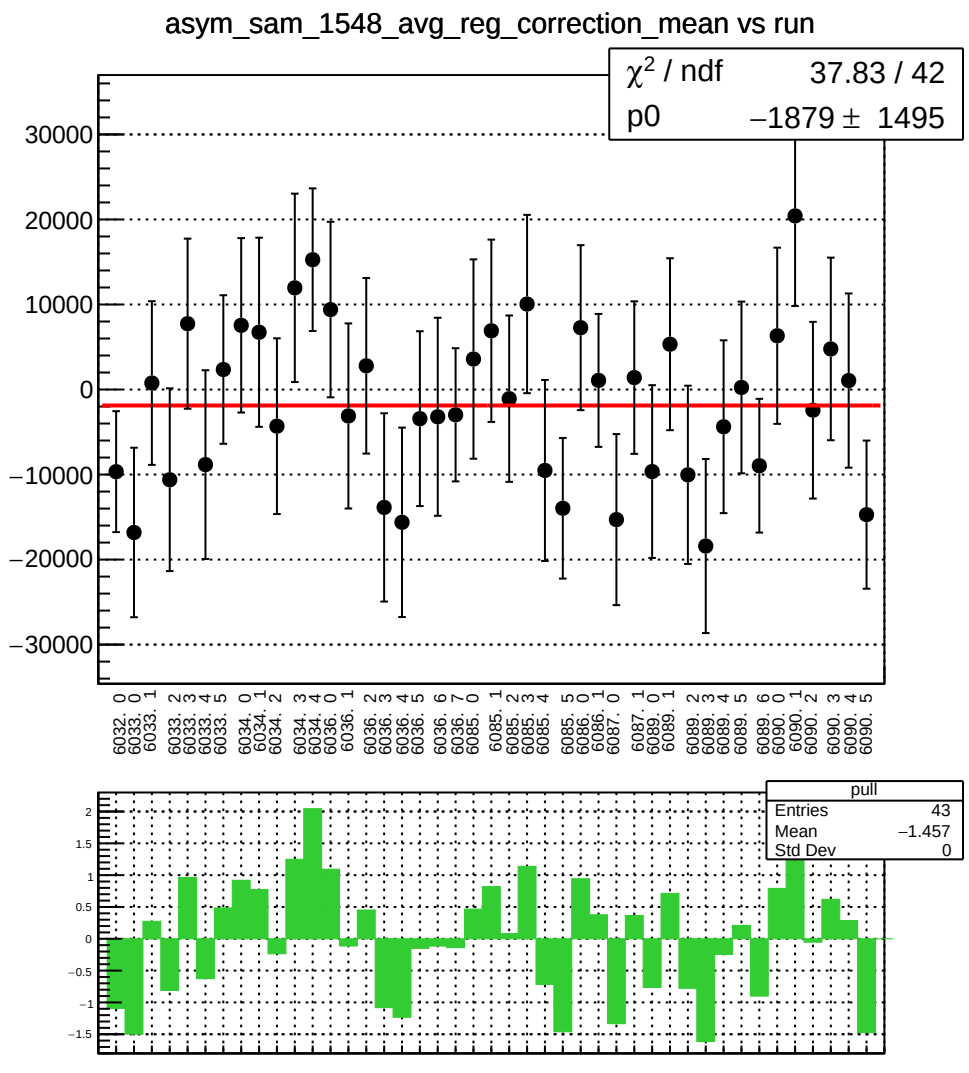

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.39e+04 / 42
p0 24.71 ± 0.02747
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

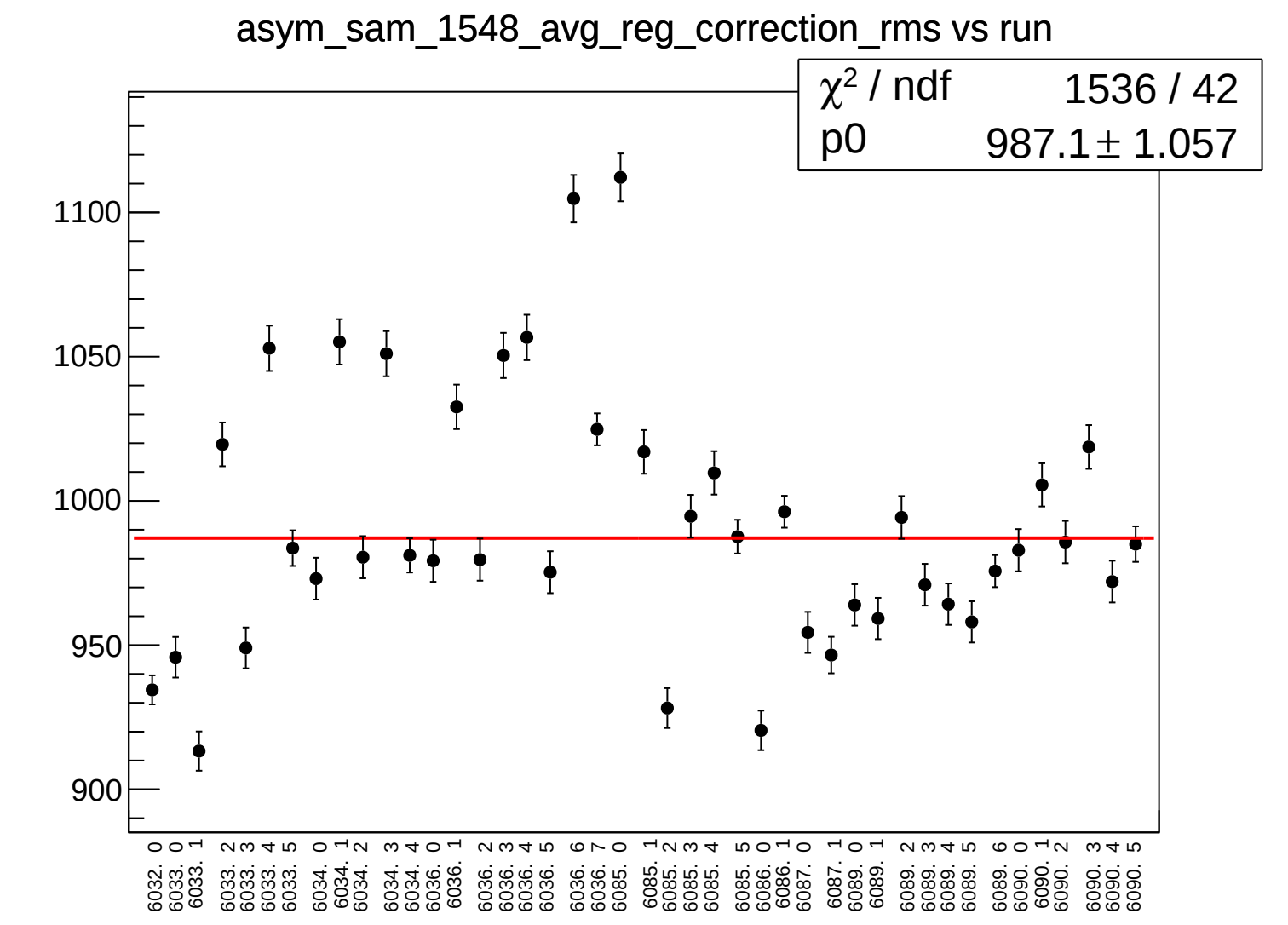

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 41.23 / 42
p0 −5.961e−15 ± 2.655e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 40.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.08668
Std Dev 0.9753
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.44e+05 / 42
p0 1.489e−11 ± 1.878e−14
90
80
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


reg_asym_sam_1548_avg_mean vs run
χ² / ndf 34.88 / 42
p0 8.77 ± 140.4
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 319.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003917
Std Dev 0.9006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1548_avg_rms vs run
χ² / ndf 4010 / 42
p0 92.55 ± 0.09928
125
120
115
110
105
100
95
90
85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 37.83 / 42
p0 −1879 ± 1495
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.457
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01696
Std Dev 0.9378
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 1536 / 42
p0 987.1 ± 1.057
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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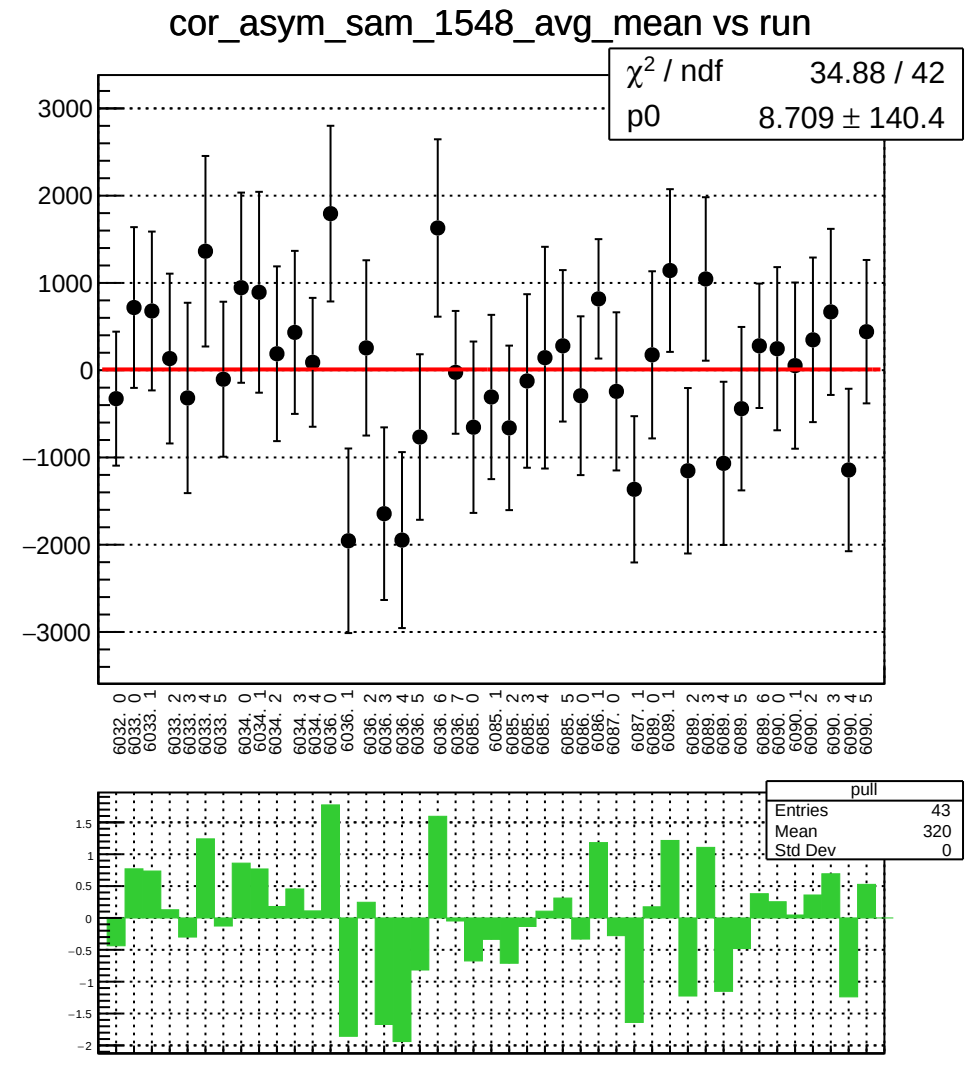
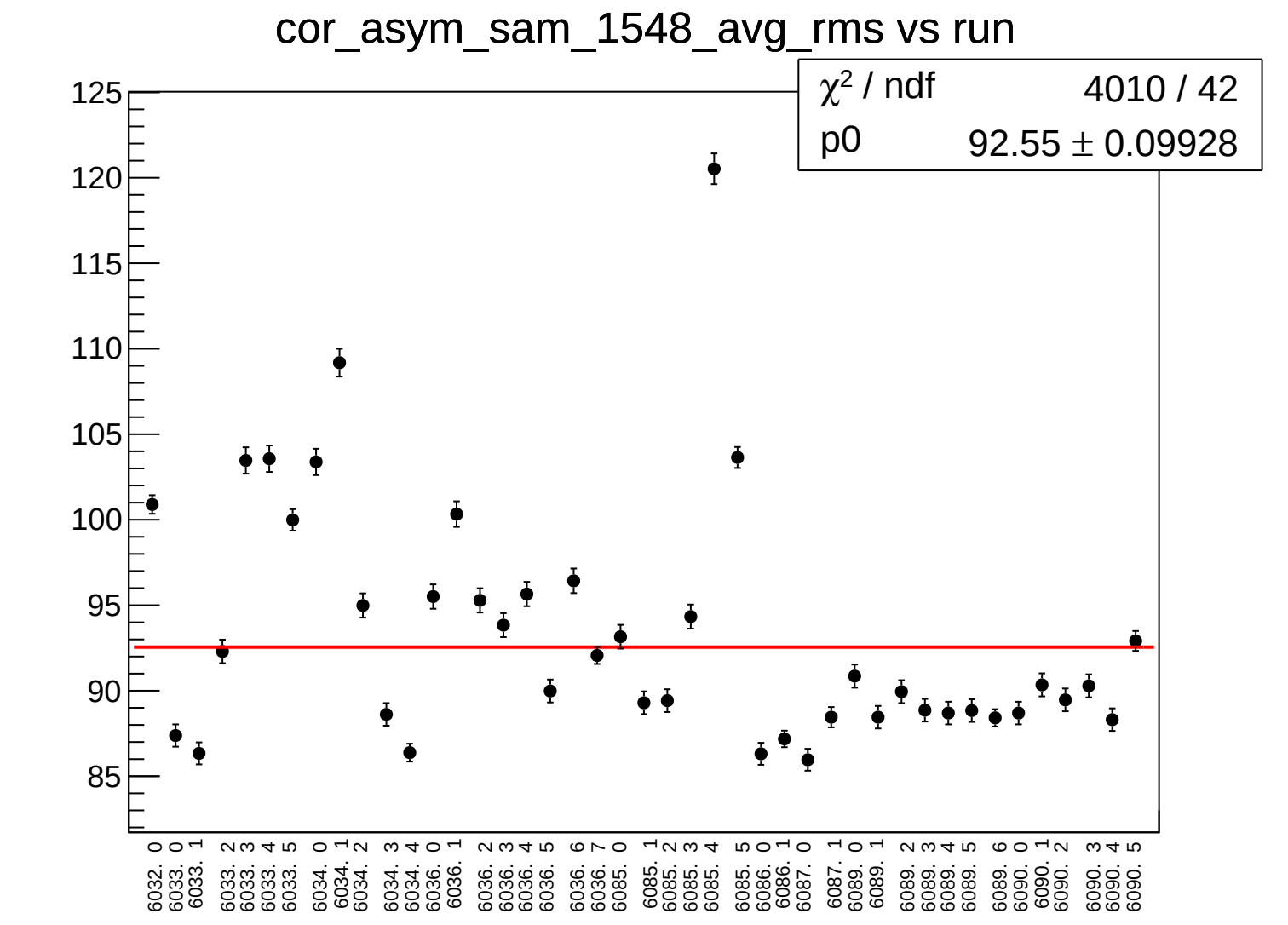

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 34.88 / 42
p0 8.709 ± 140.4
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 320
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003913
Std Dev 0.9006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4010 / 42
p0 92.55 ± 0.09928
125
120
115
110
105
100
95
90
85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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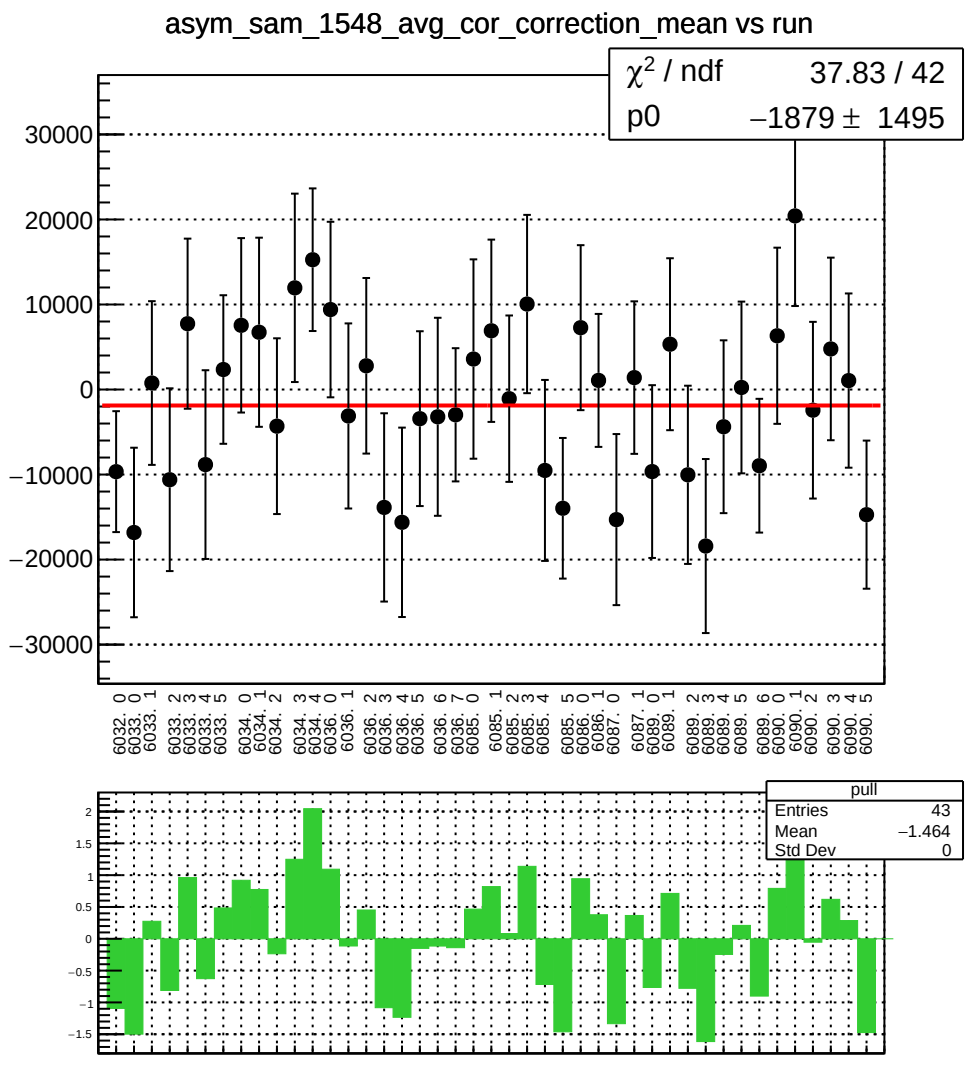
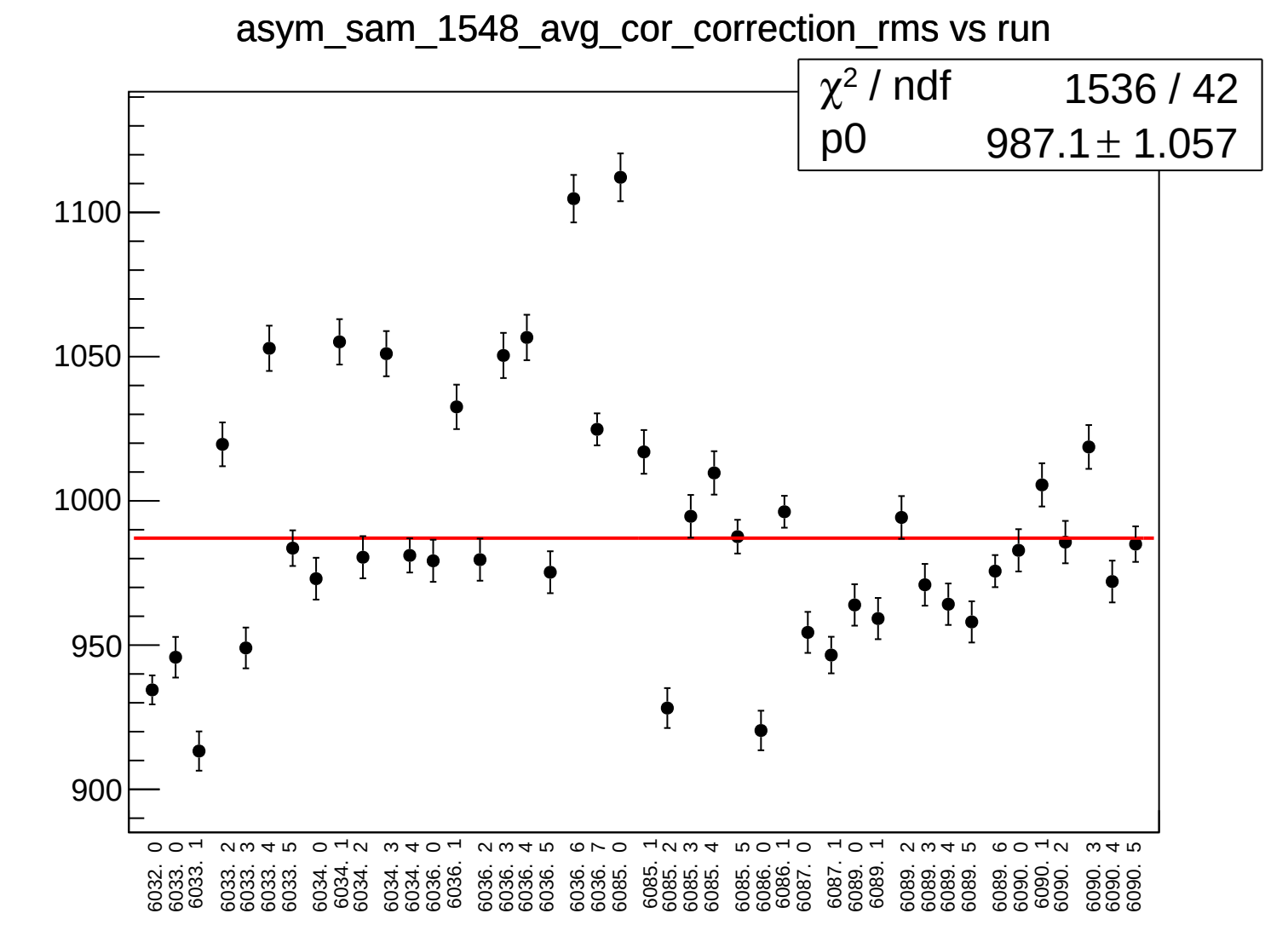

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 37.83 / 42
p0 −1879 ± 1495
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.464
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01696
Std Dev 0.9378
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 1536 / 42
p0 987.1 ± 1.057
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
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6090. 2
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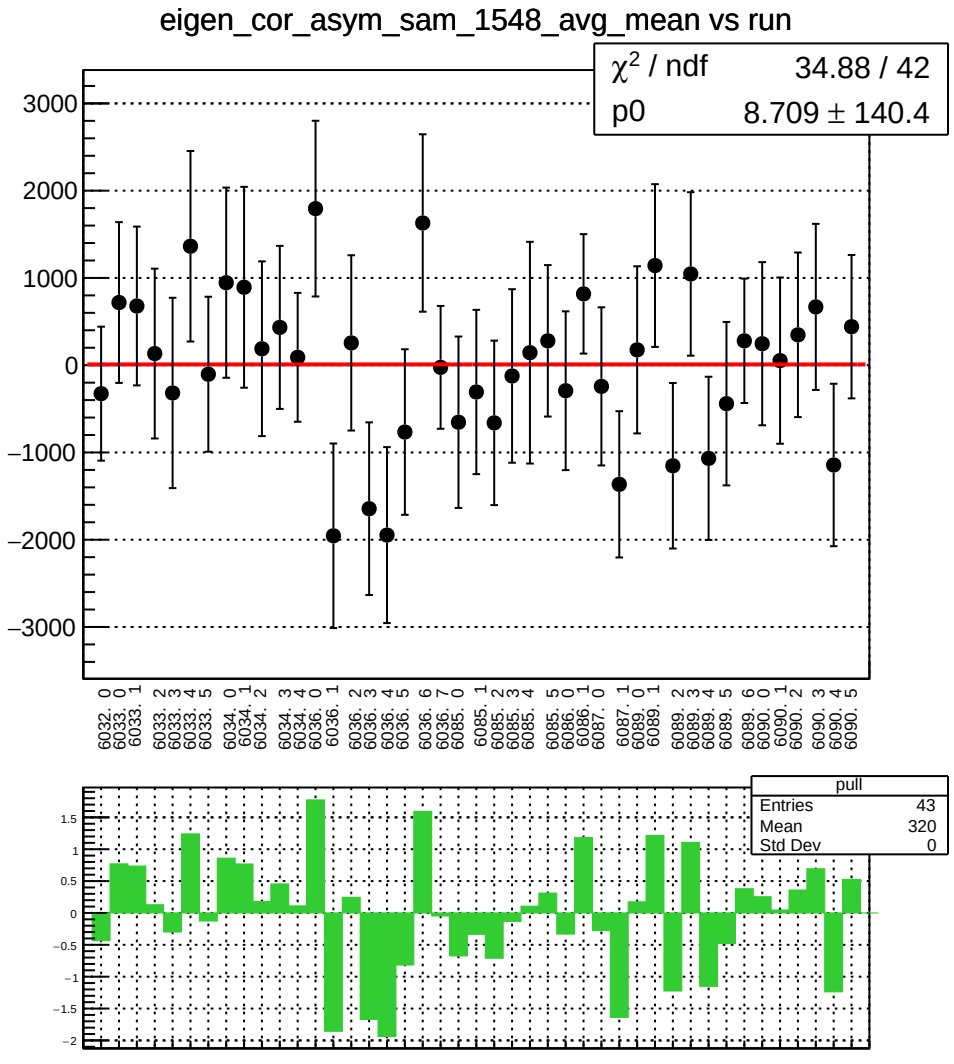
6090. 4
6090. 5


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 34.88 / 42
p0 8.709 ± 140.4
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
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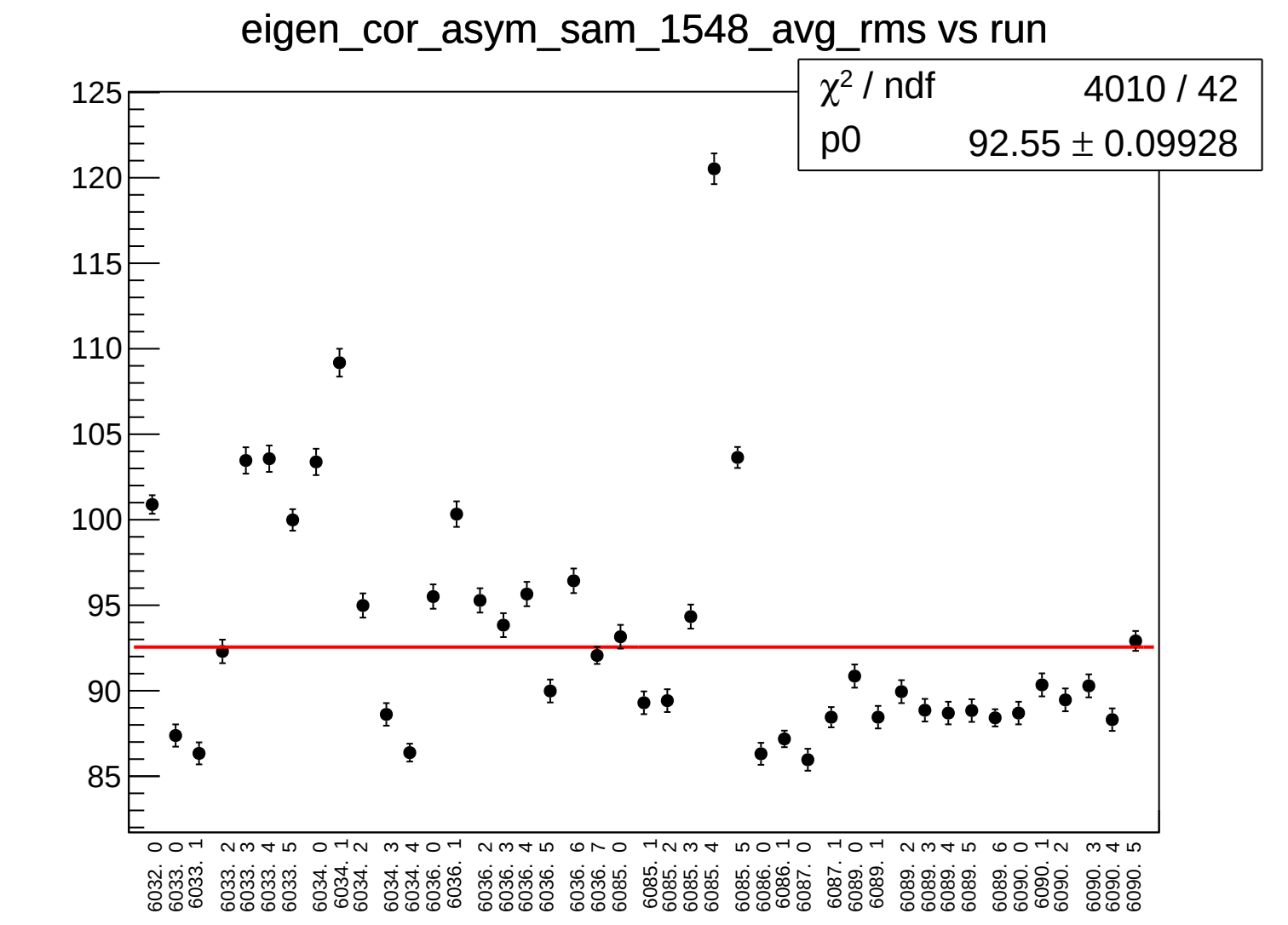
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 320
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003913
Std Dev 0.9006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 4010 / 42
p0 92.55 ± 0.09928
125
120
115
110
105
100
95
90
85
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
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6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
6090. 0
6090. 1
6090. 2
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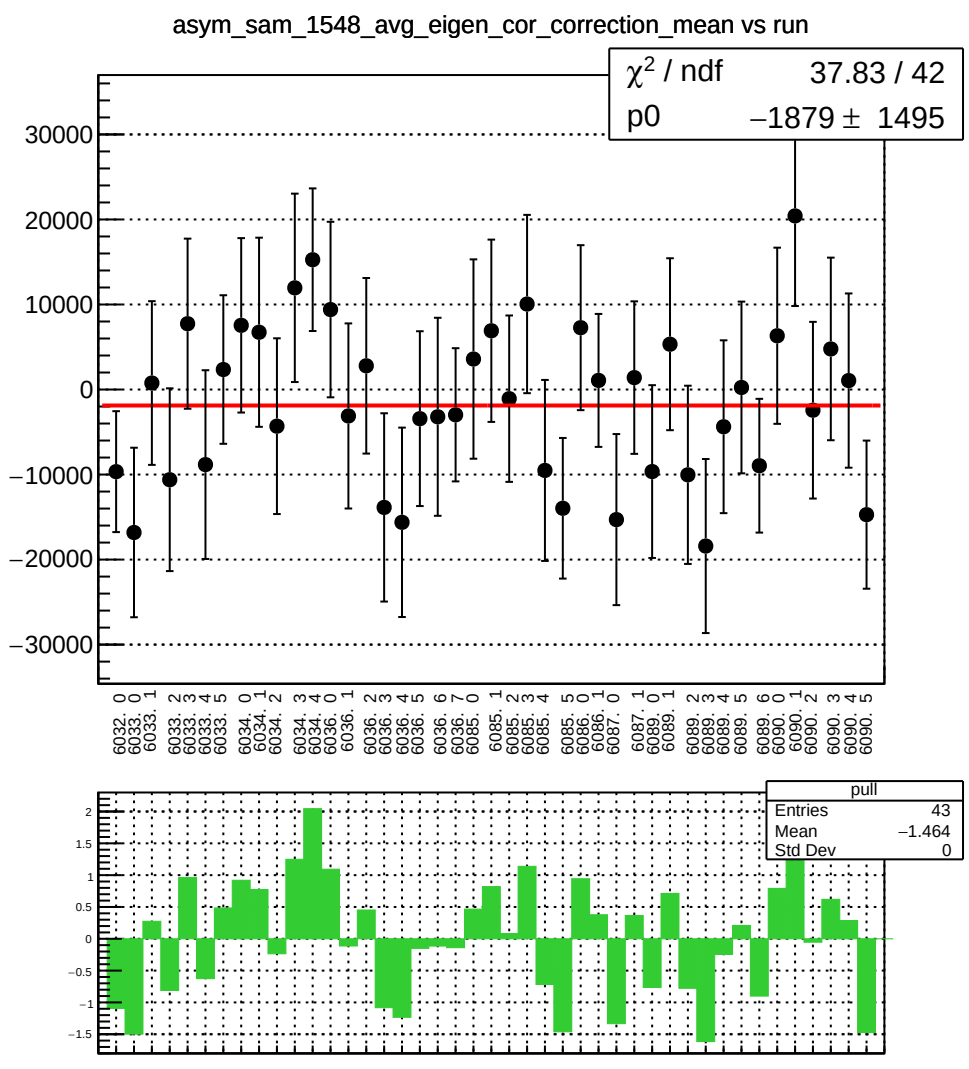
6090. 4
6090. 5


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.83 / 42
p0 −1879 ± 1495
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
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6034. 1
6034. 2
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6036. 2
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6036. 5
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6036. 7
6085. 0
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6085. 2
6085. 3
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6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.464
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01696
Std Dev 0.9378
7
6
5
4
3
2
1
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−4
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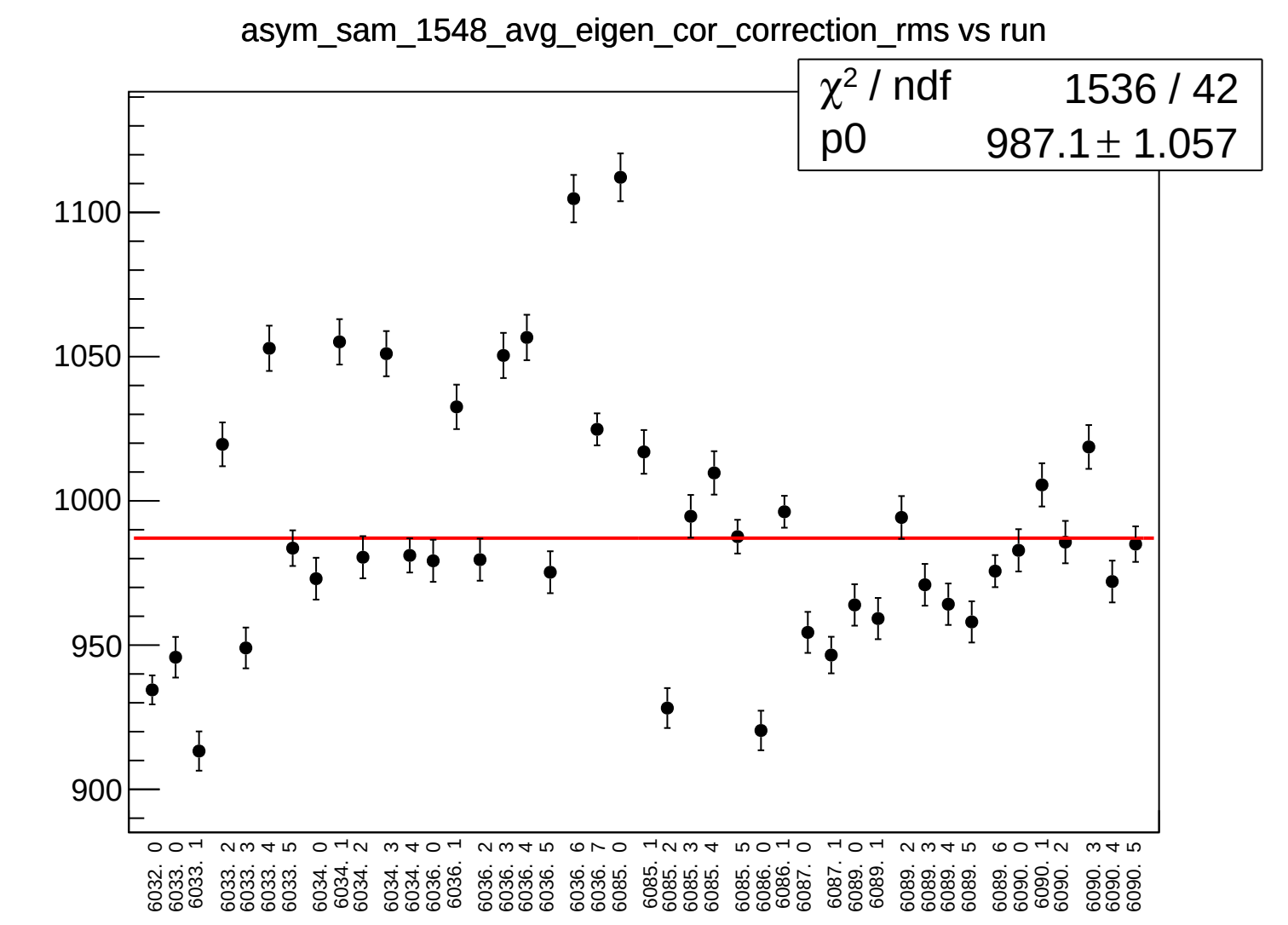
0
2
4
6
8


asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1536 / 42
p0 987.1 ± 1.057
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
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6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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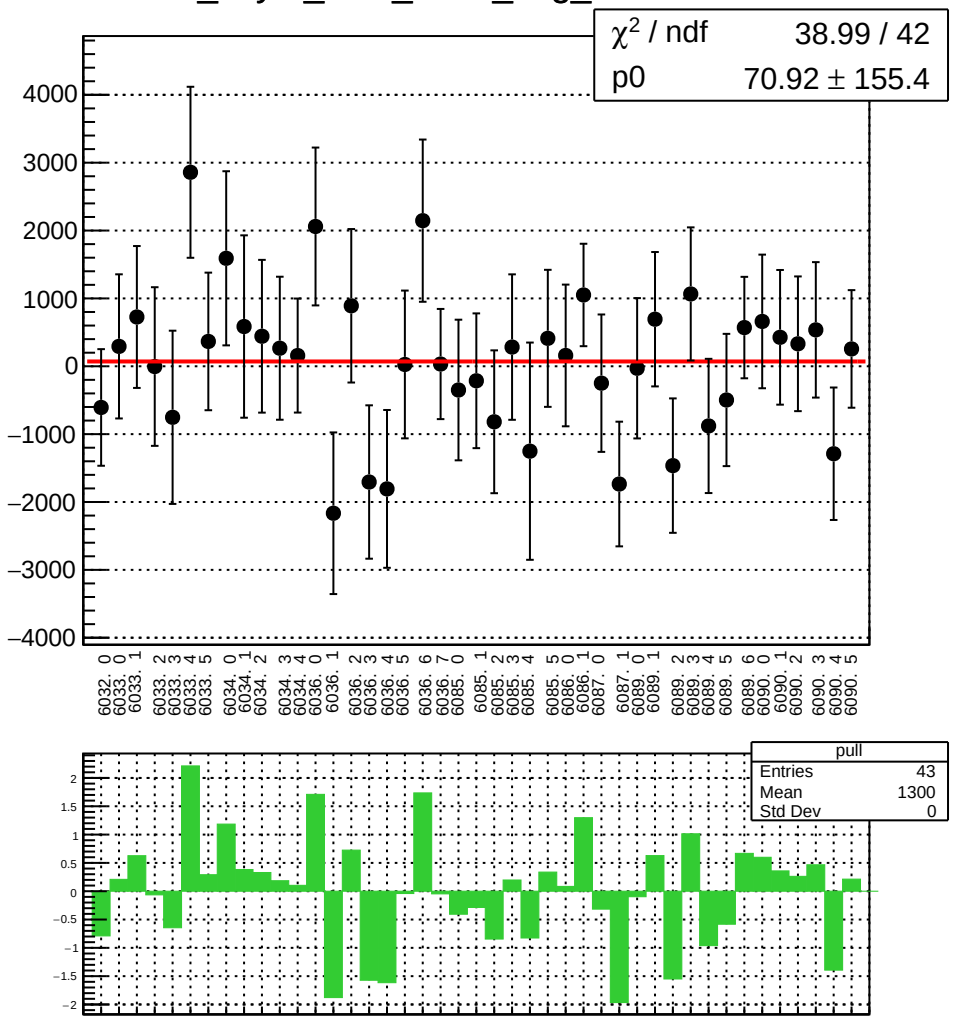
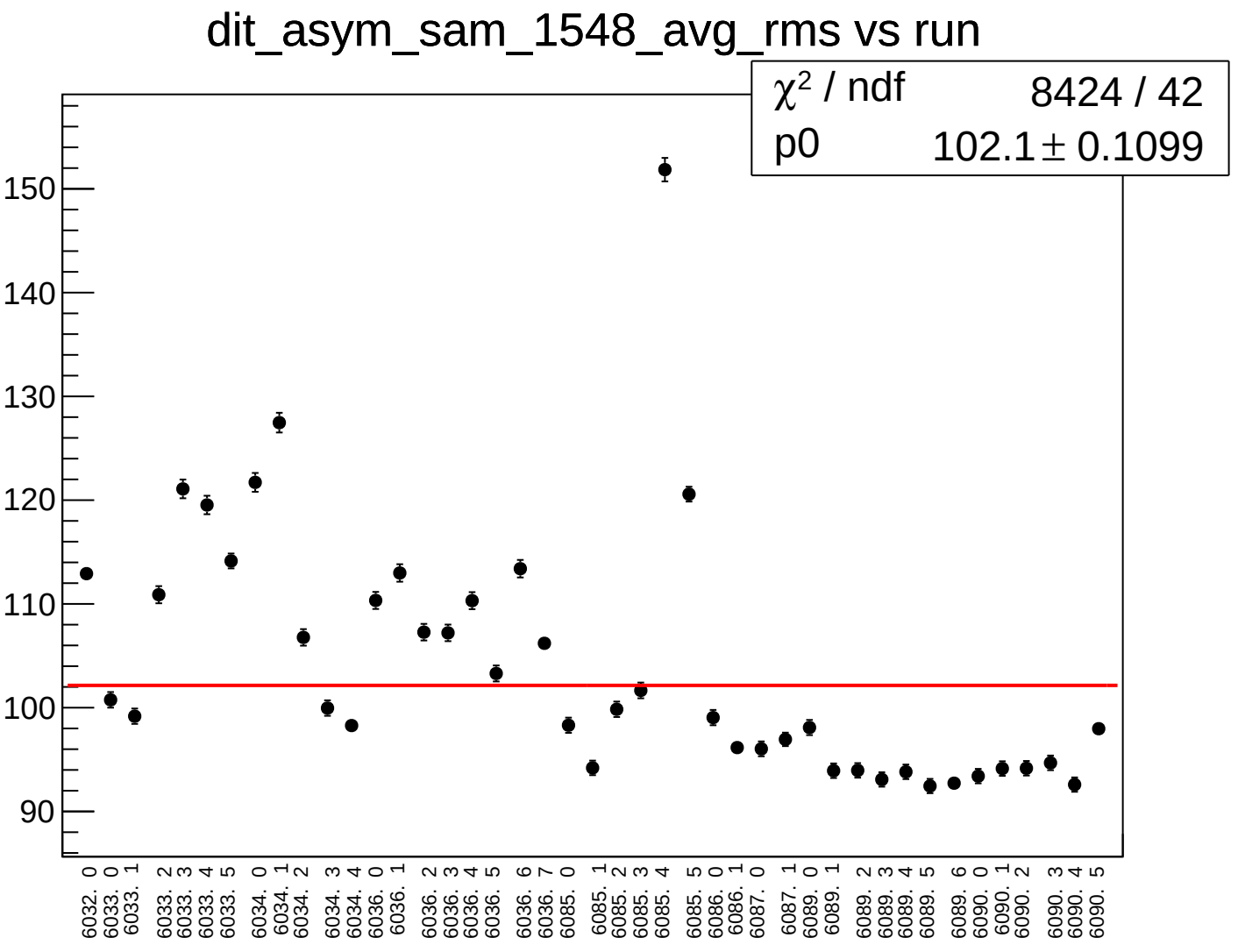
6090. 4
6090. 5


dit_asym_sam_1548_avg_mean vs run
χ² / ndf 38.99 / 42
p0 70.92 ± 155.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1300
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.00116
Std Dev 0.9523
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1548_avg_rms vs run
χ² / ndf 8424 / 42
p0 102.1 ± 0.1099
150
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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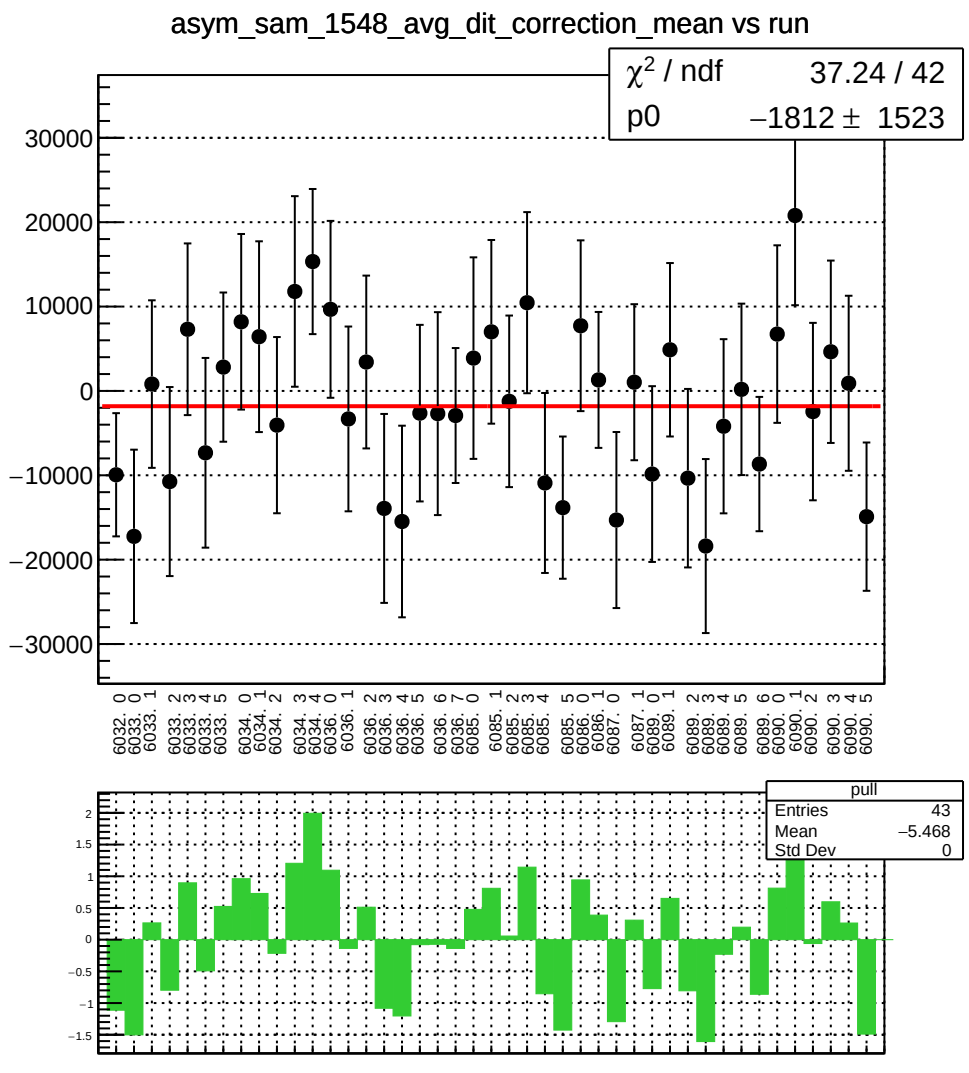
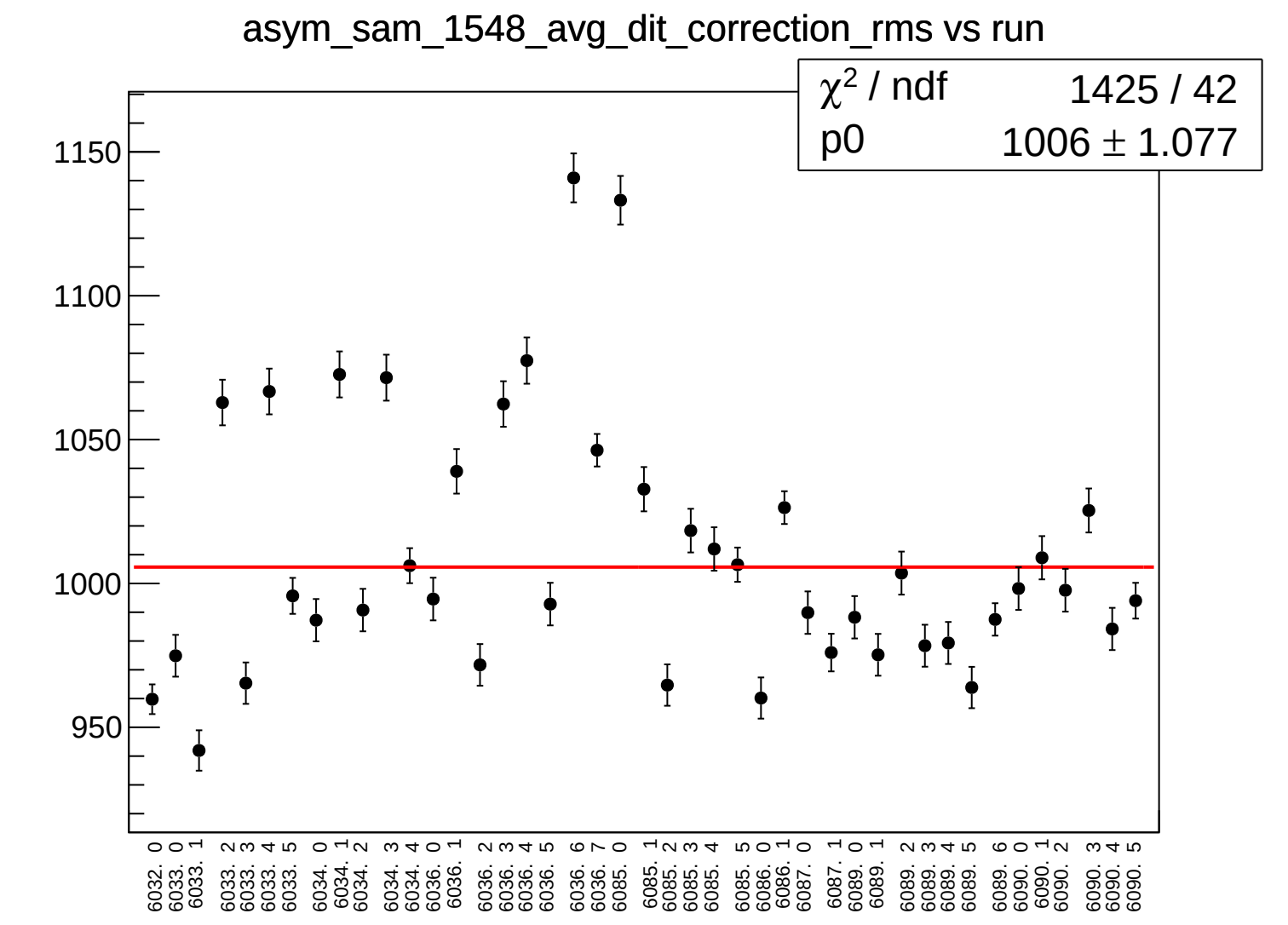
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 37.24 / 42
p0 −1812 ± 1523
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.468
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01676
Std Dev 0.9305
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 1425 / 42
p0 1006 ± 1.077
1150
1100
1050
1000
950
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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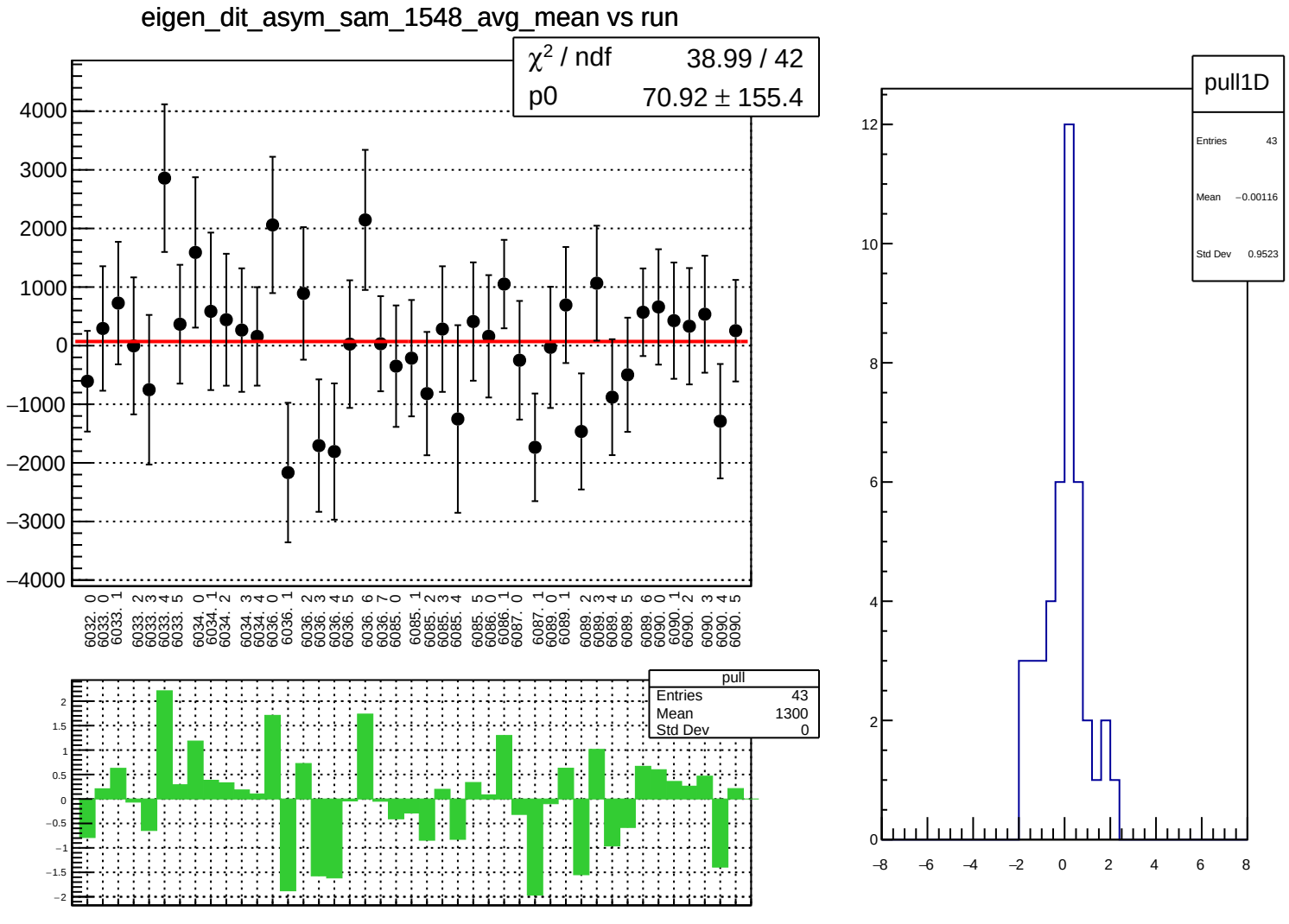
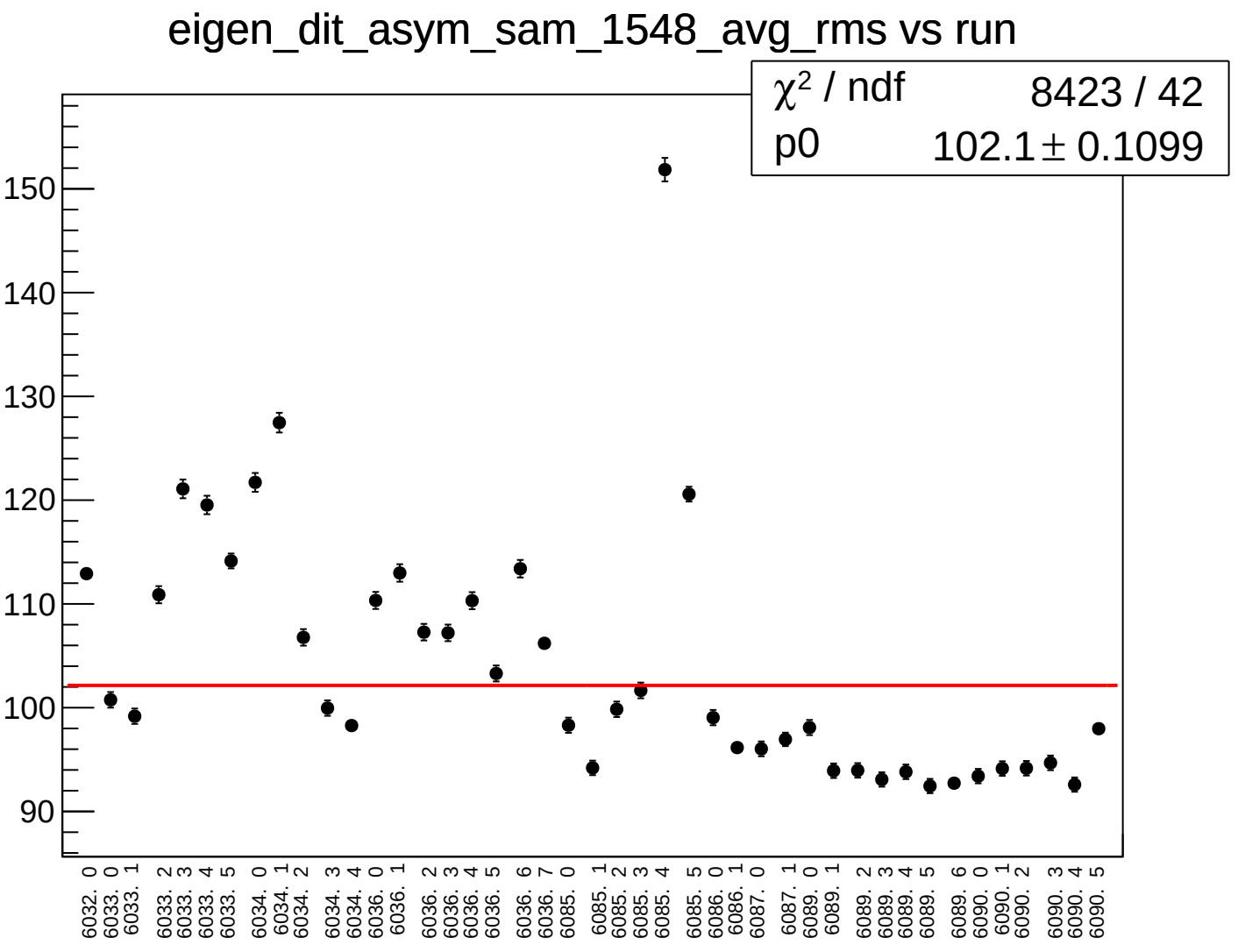
6090. 5


eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 38.99 / 42
p0 70.92 ± 155.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1300
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.00116
Std Dev 0.9523
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 8423 / 42
p0 102.1 ± 0.1099
150
140
130
120
110
100
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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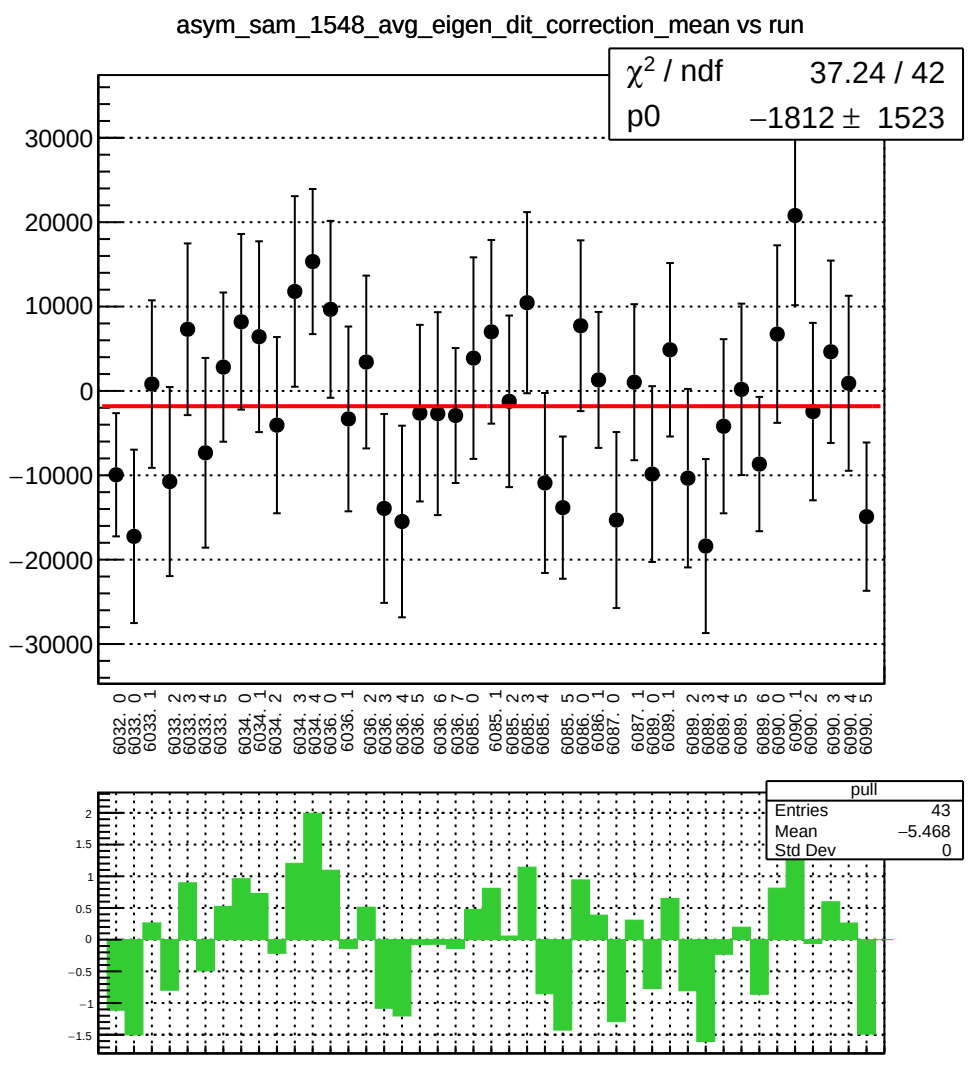
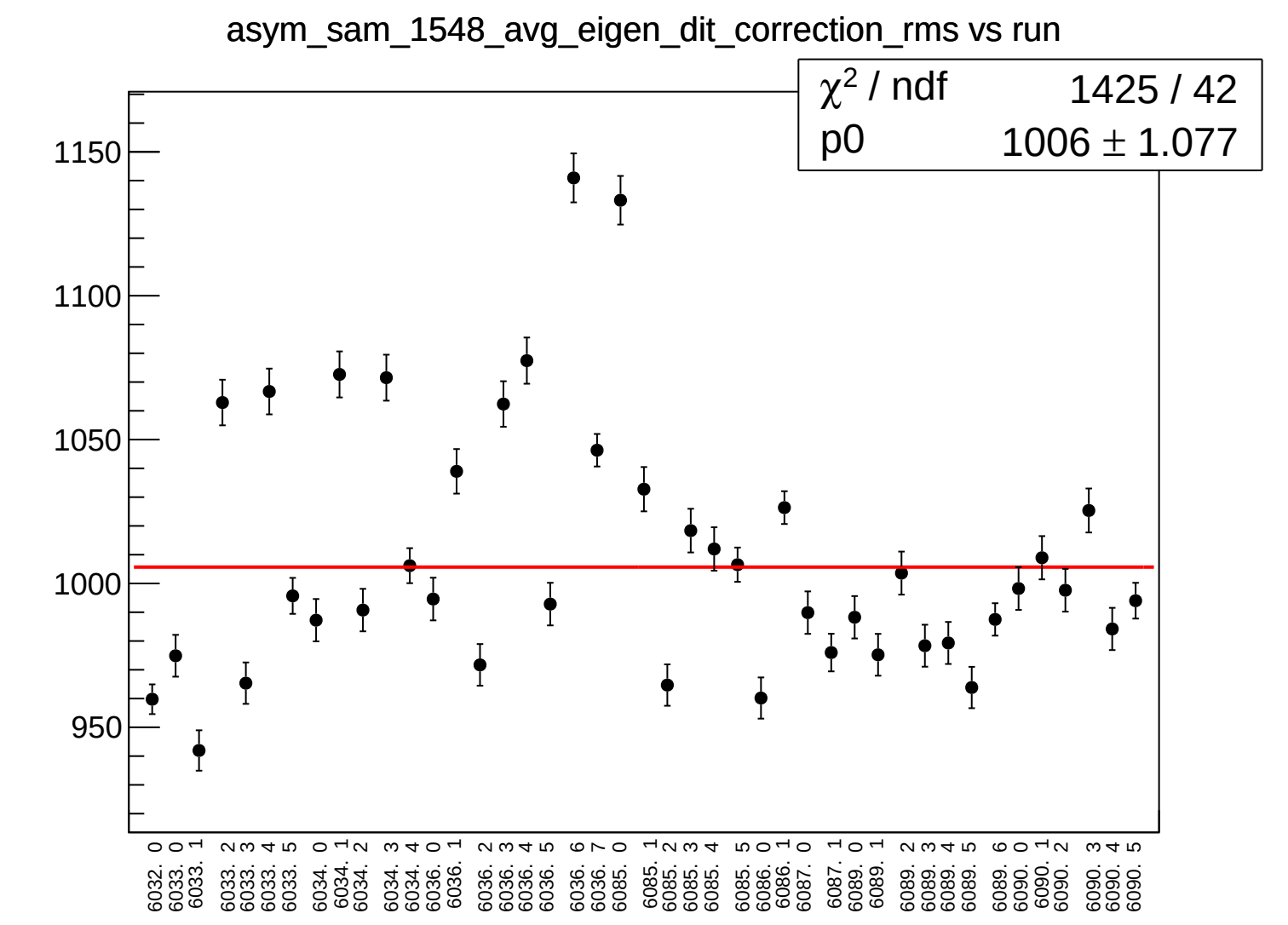
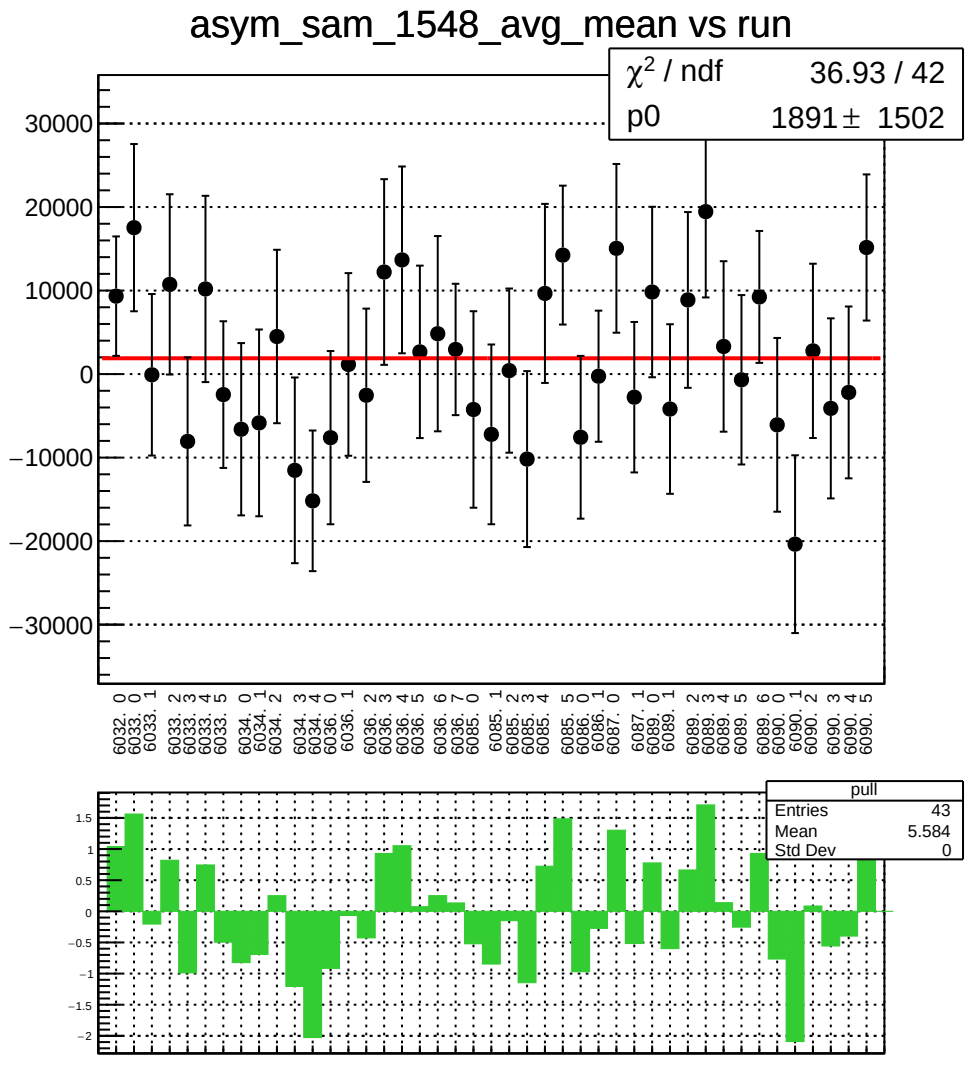
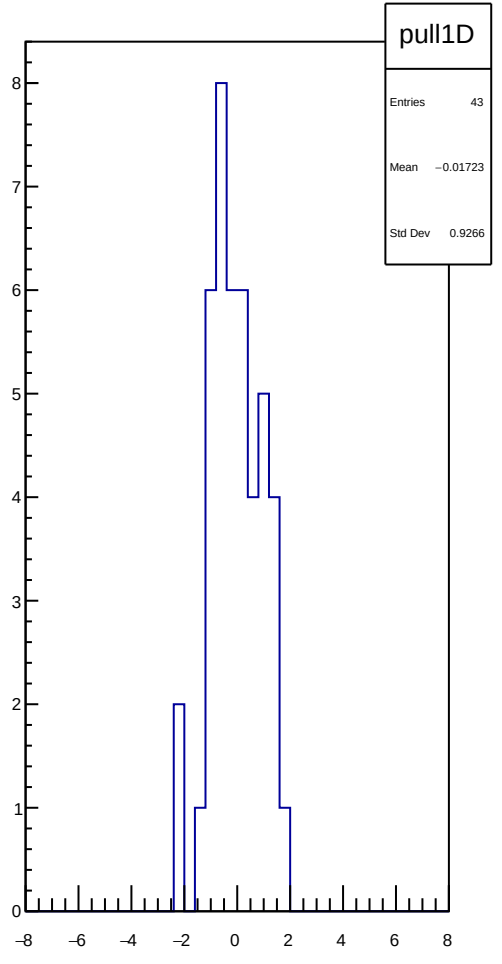
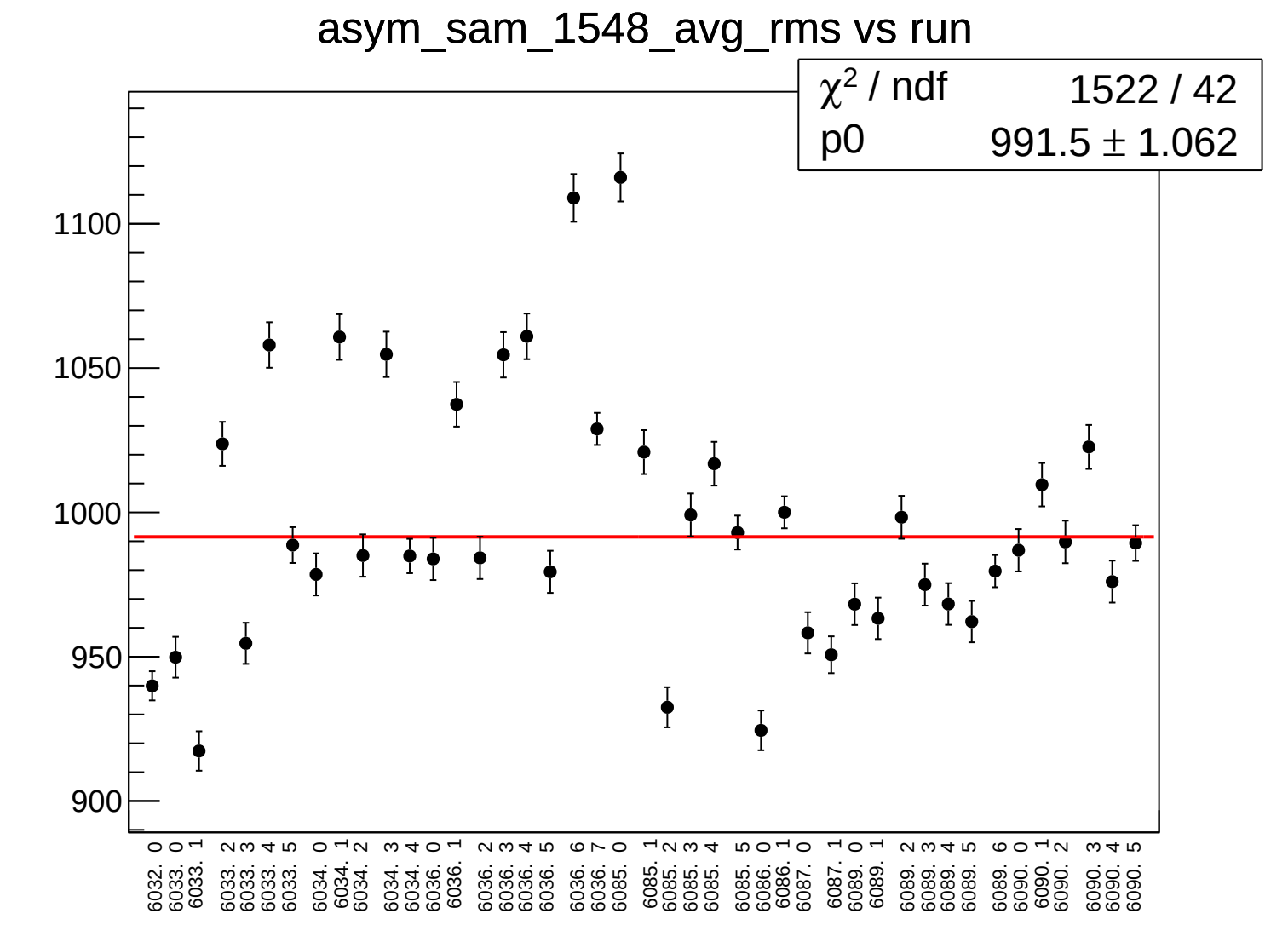
6090. 2
6090. 3
6090. 4
6090. 5

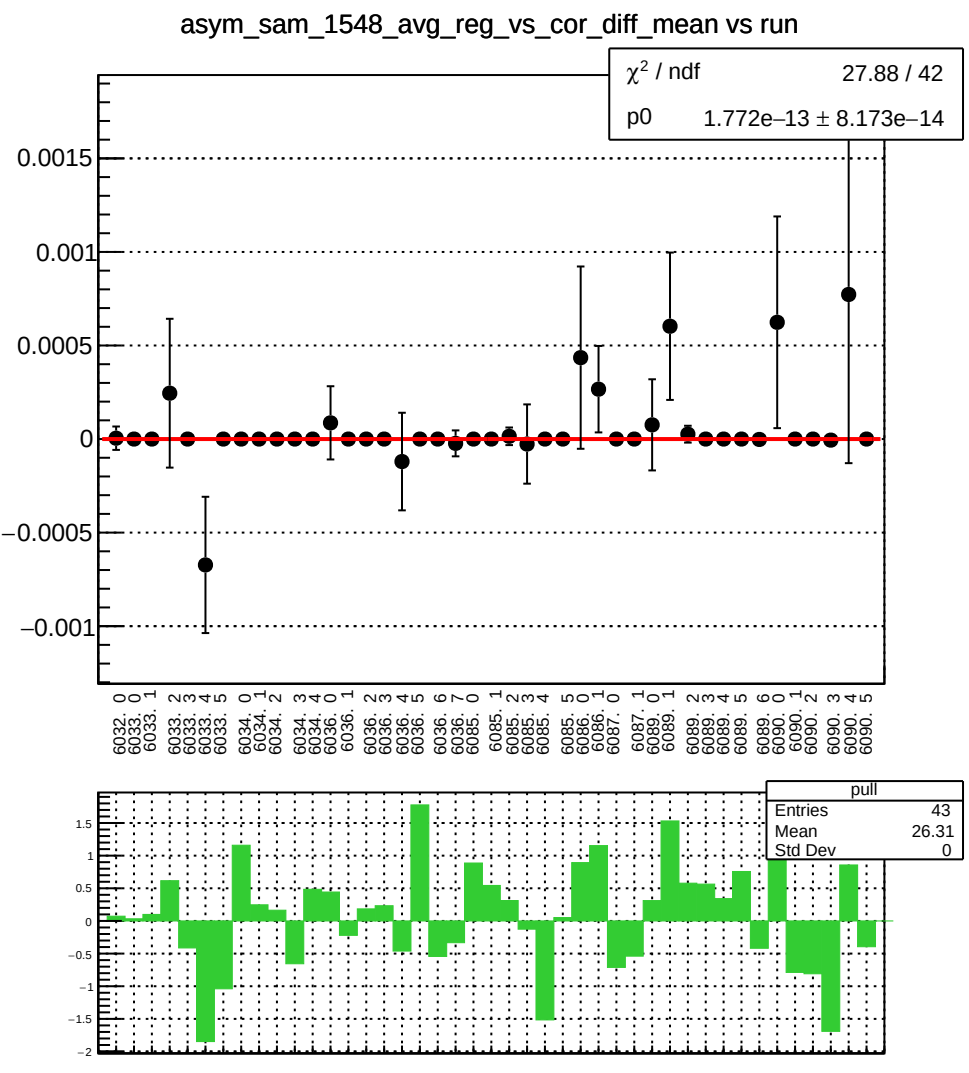

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.24 / 42
p0 −1812 ± 1523
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.468
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01676
Std Dev 0.9305
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

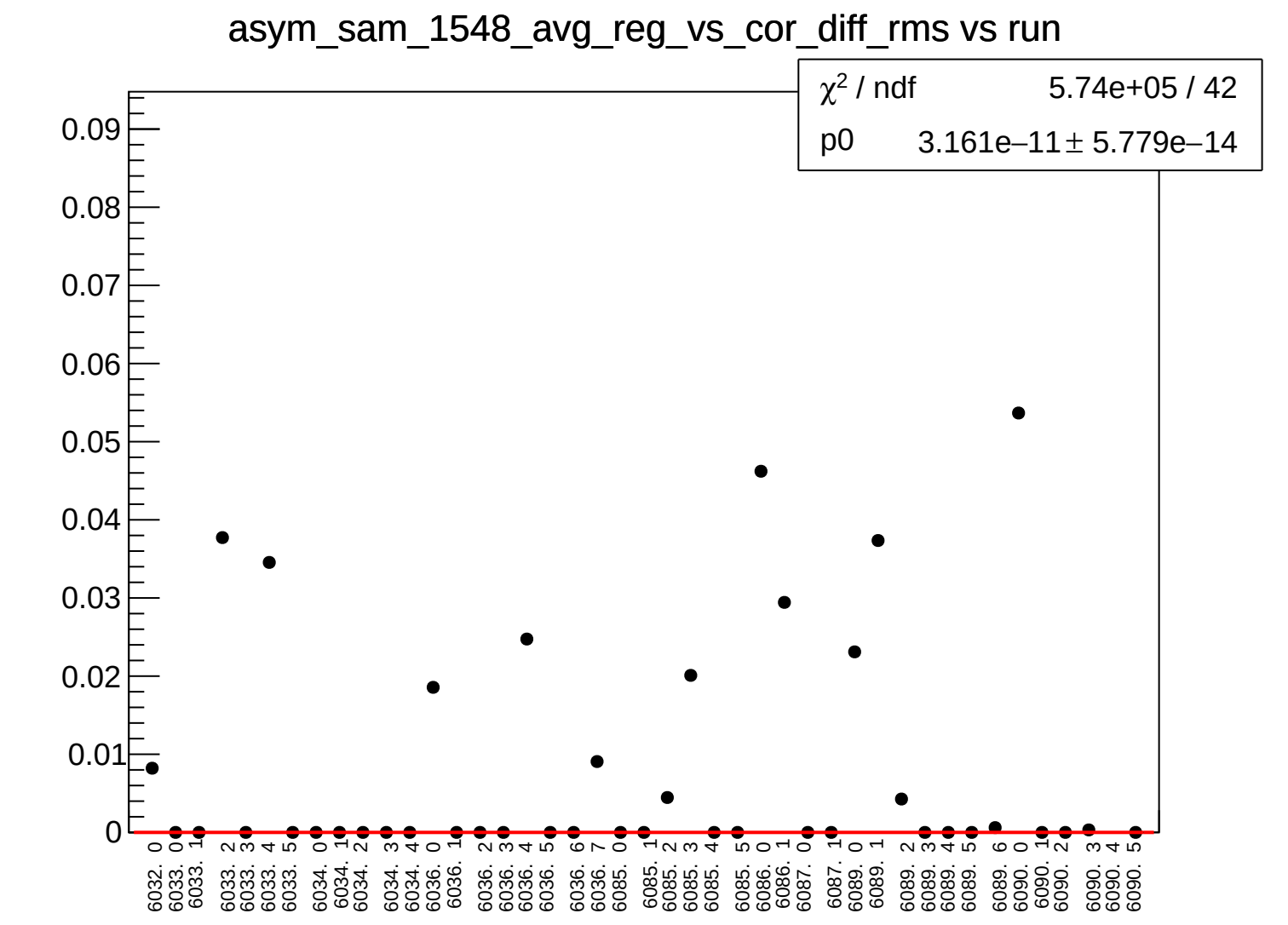

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1425 / 42
p0 1006 ± 1.077
1150
1100
1050
1000
950
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

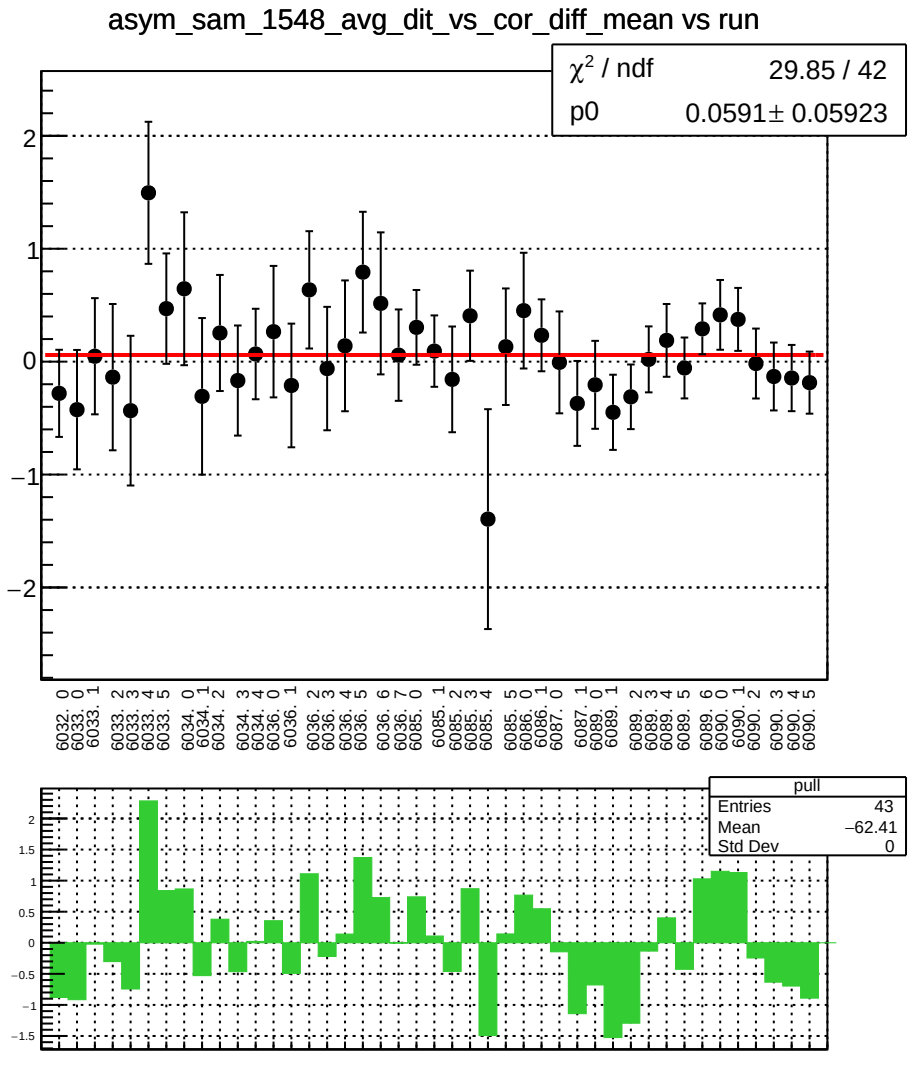

asym_sam_1548_avg_mean vs run
χ² / ndf 36.93 / 42
p0 1891 ± 1502
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 5.584
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

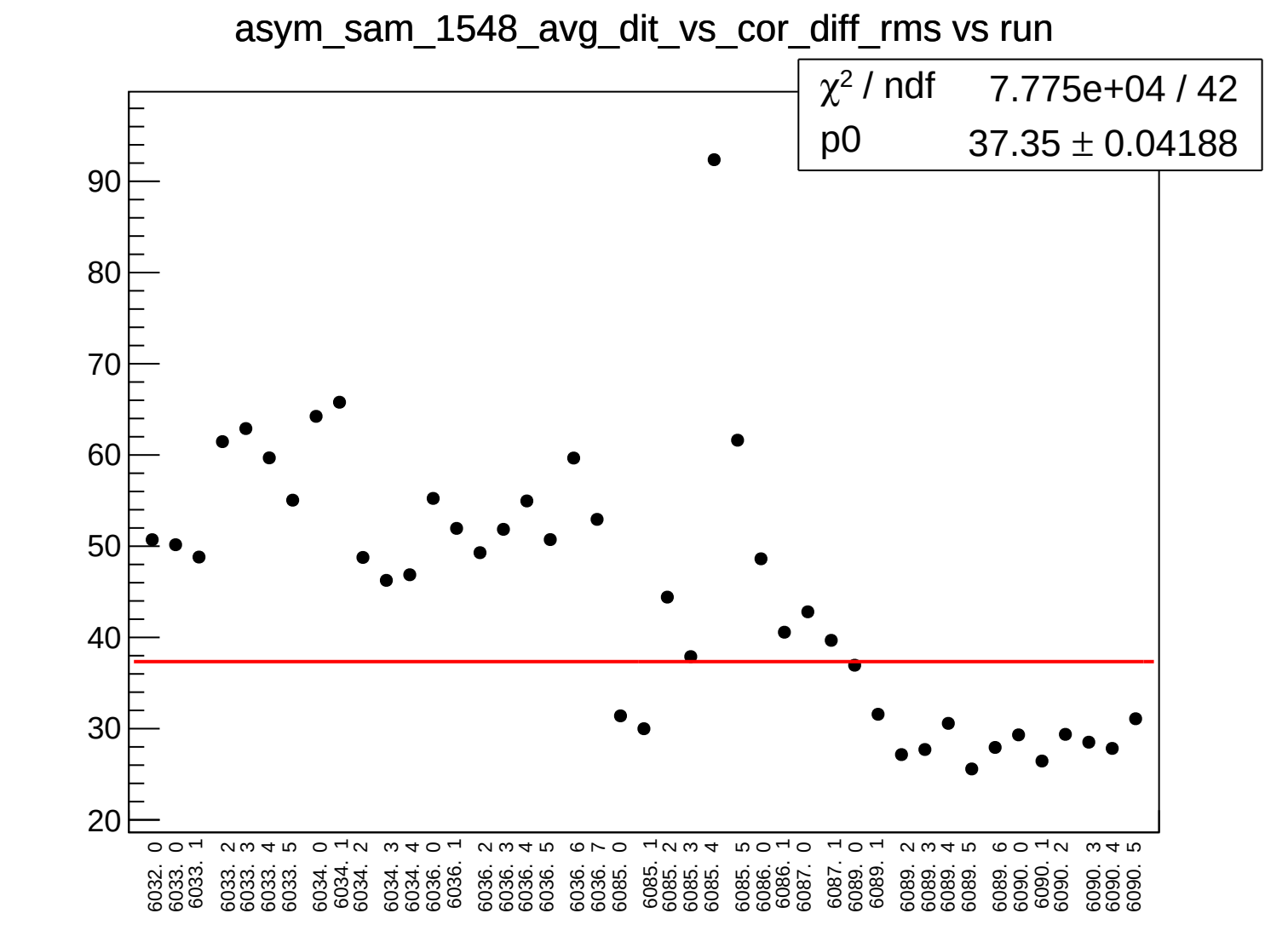

pull1D
Entries 43
Mean −0.01723
Std Dev 0.9266
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

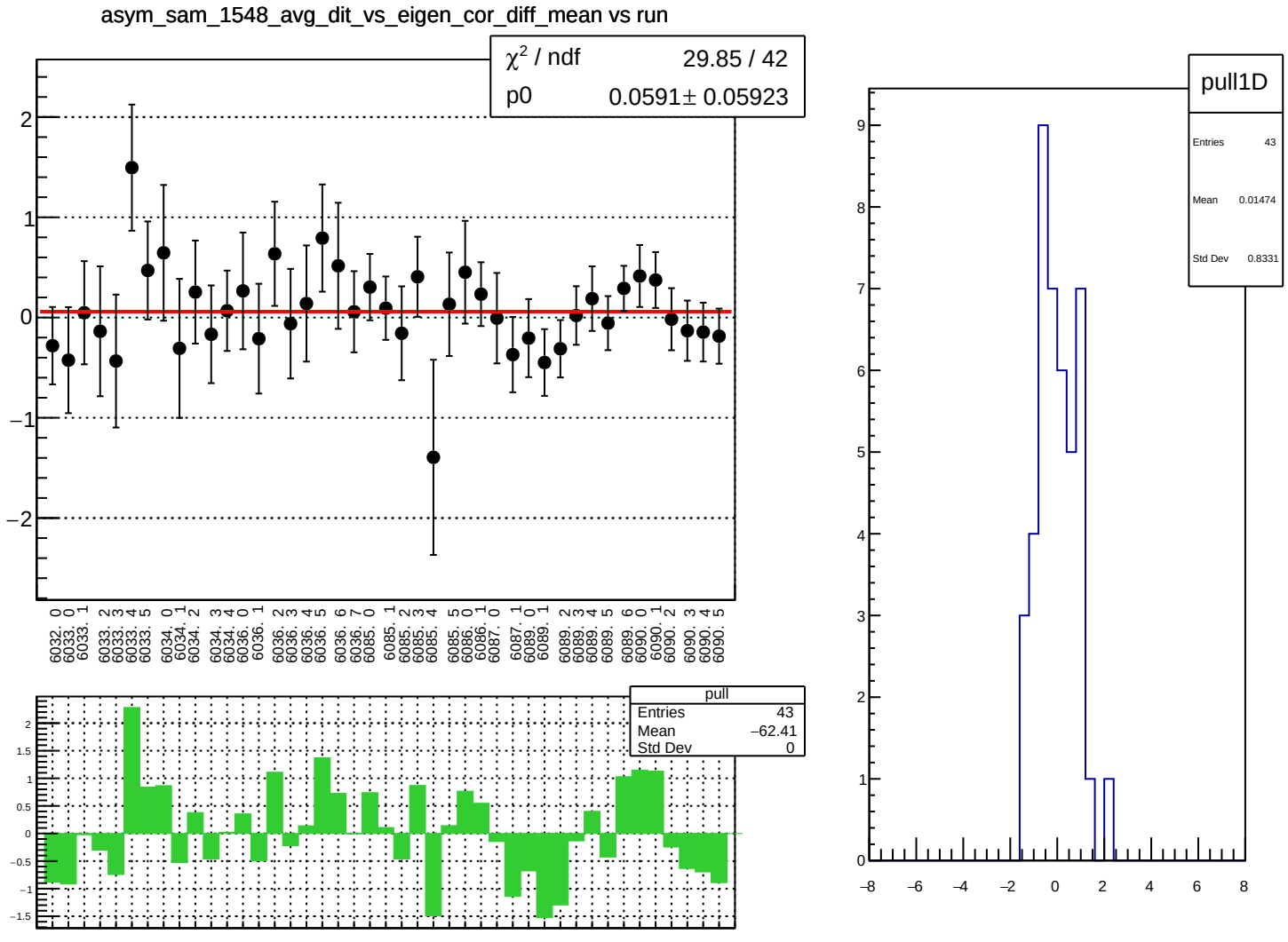

asym_sam_1548_avg_rms vs run
χ² / ndf 1522 / 42
p0 991.5 ± 1.062
1100
1050
1000
950
900
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

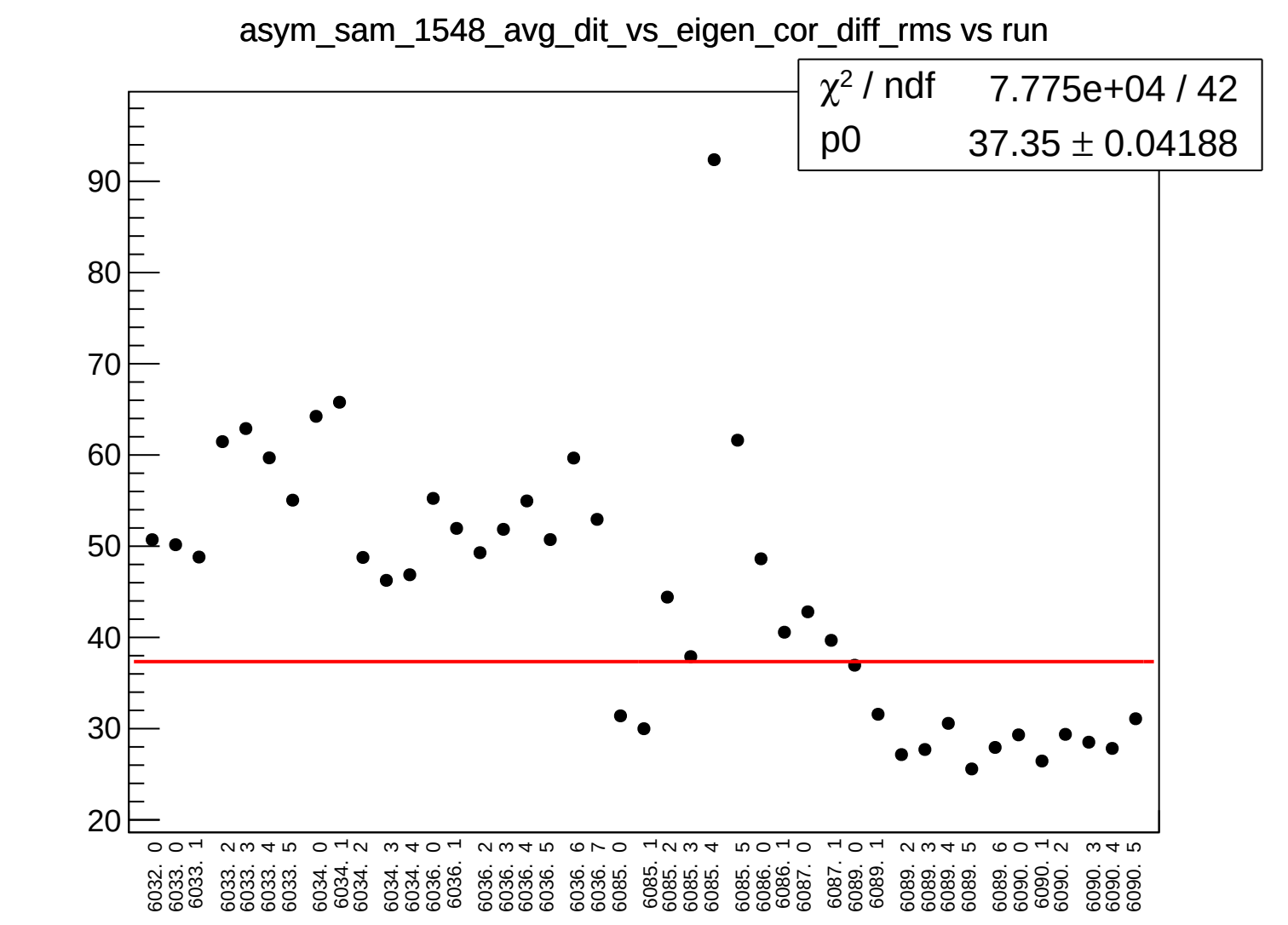

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.88 / 42
p0 1.772e−13 ± 8.173e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 26.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.06724
Std Dev 0.8024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

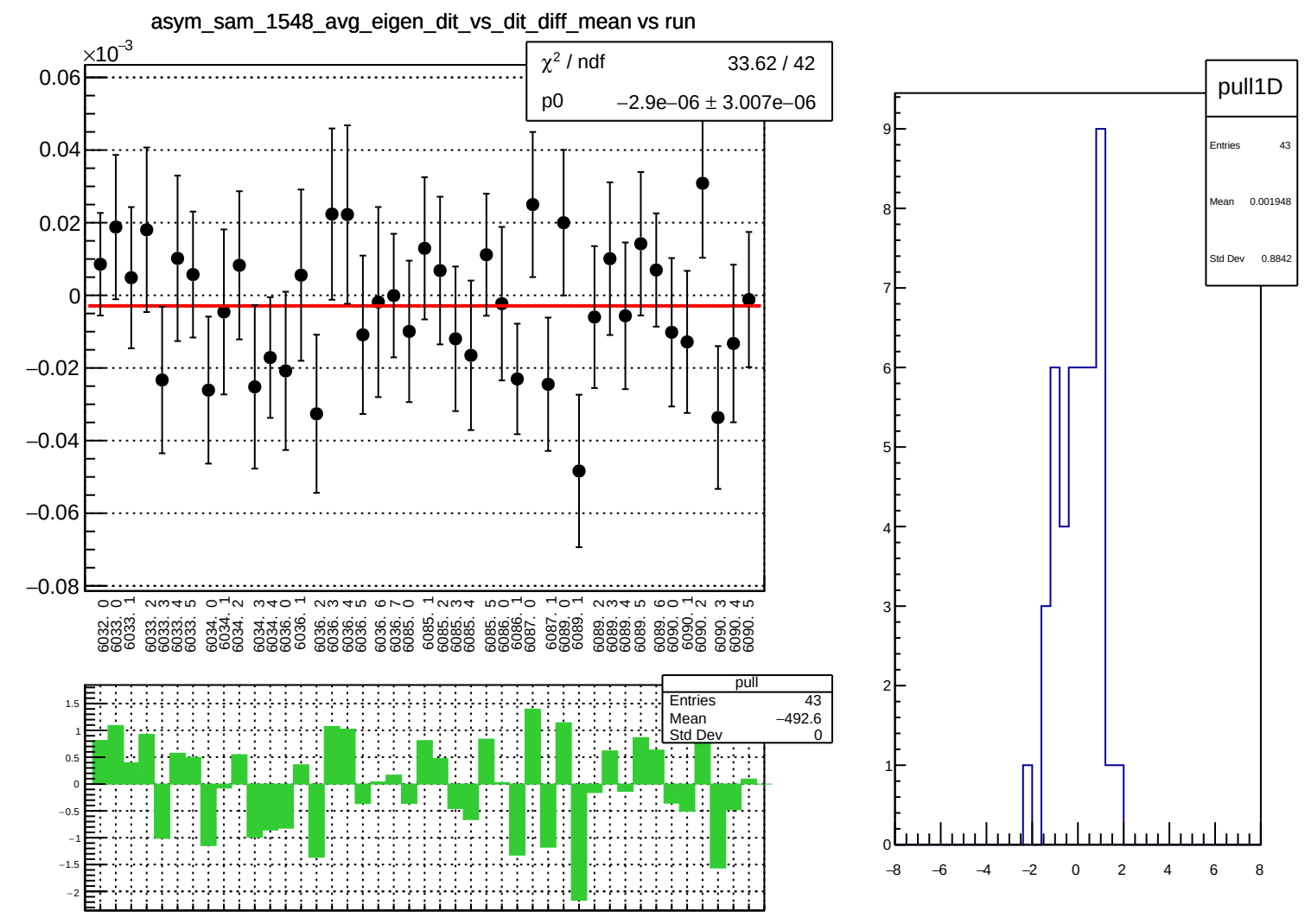

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.74e+05 / 42
p0 3.161e−11 ± 5.779e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

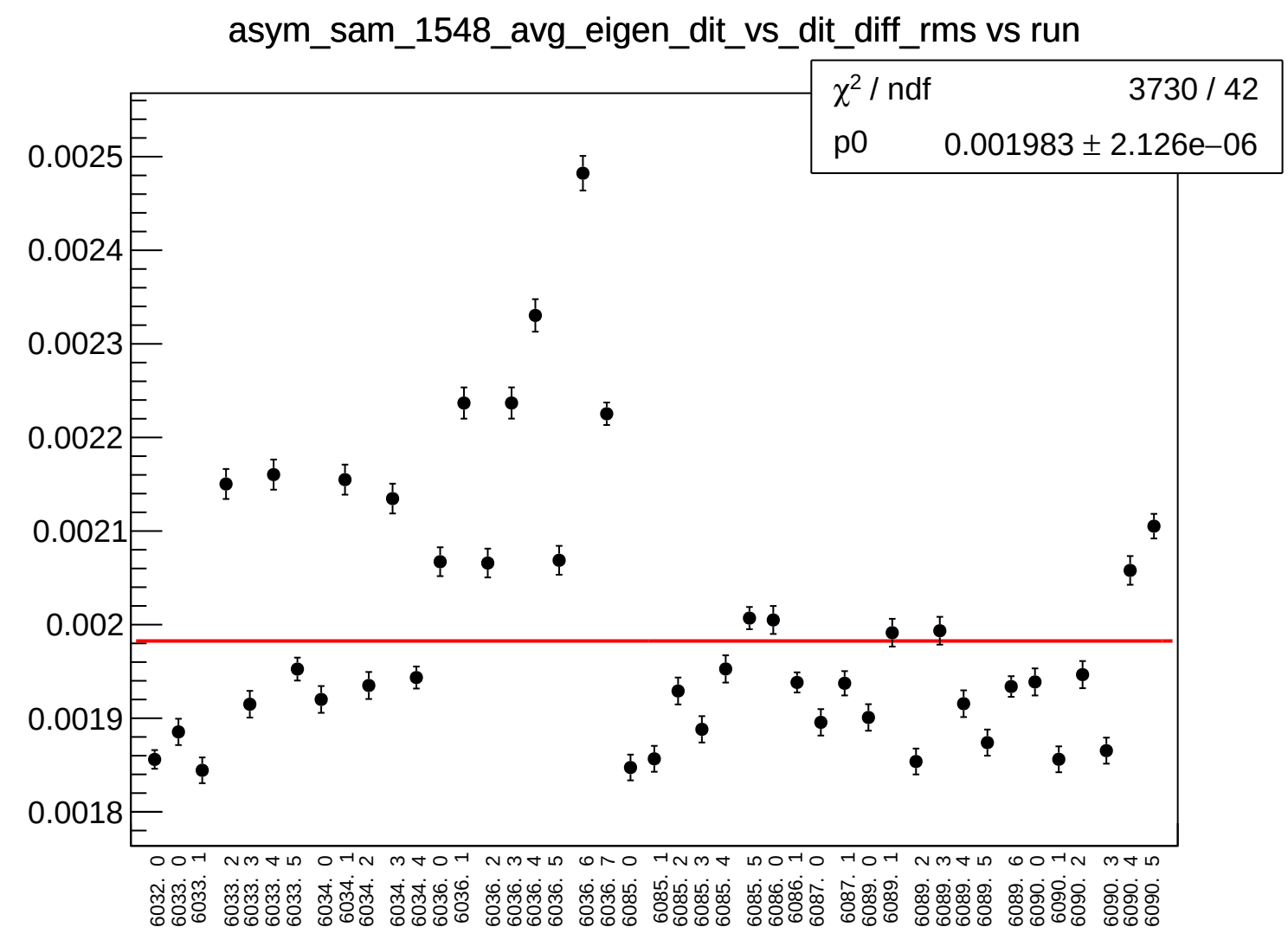

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.85 / 42
p0 0.0591± 0.05923
pull
Entries 43
Mean −62.41
Std Dev 0
pull1D
Entries 43
Mean 0.01474
Std Dev 0.8331

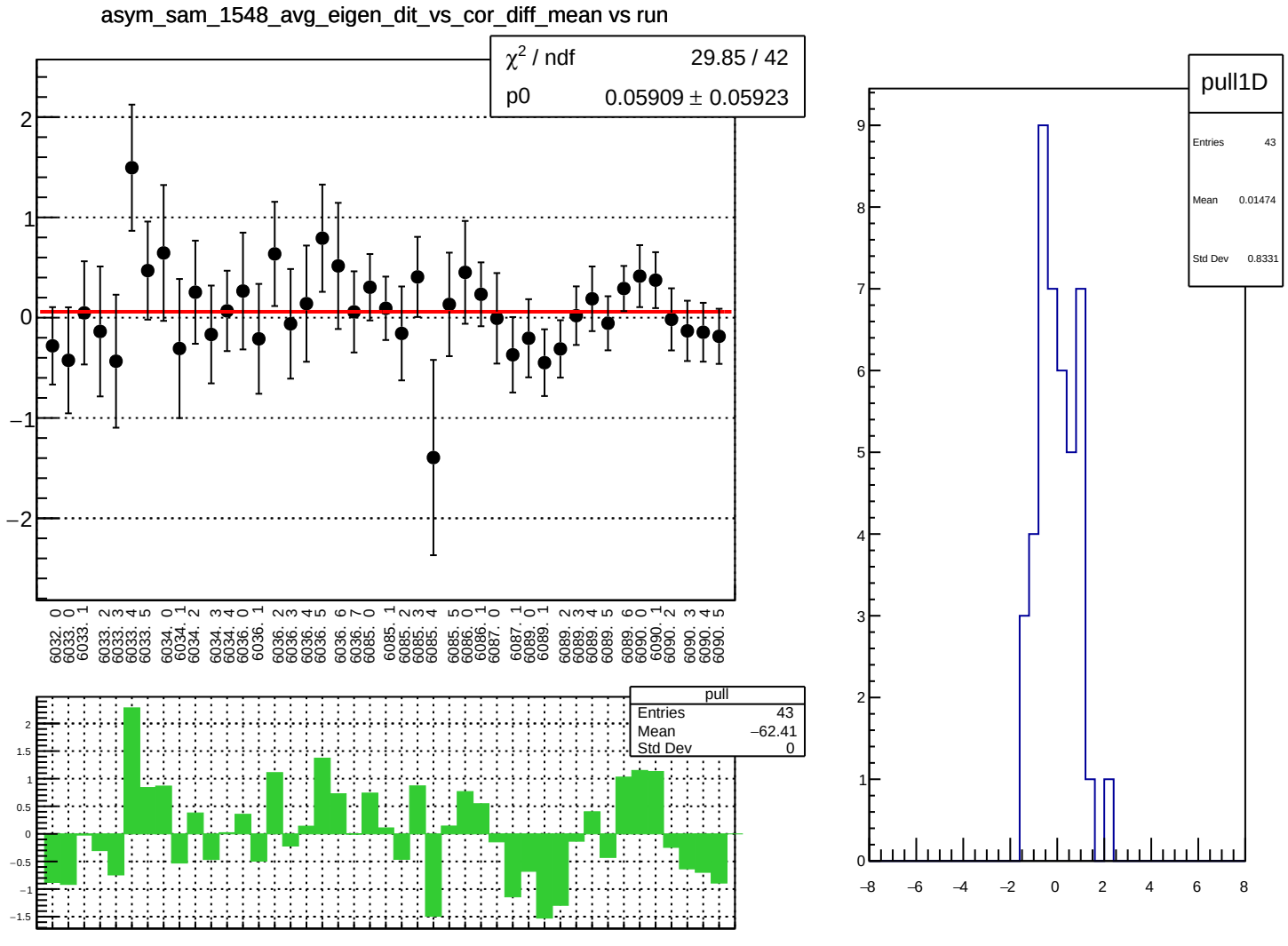

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.775e+04 / 42
p0 37.35 ± 0.04188
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

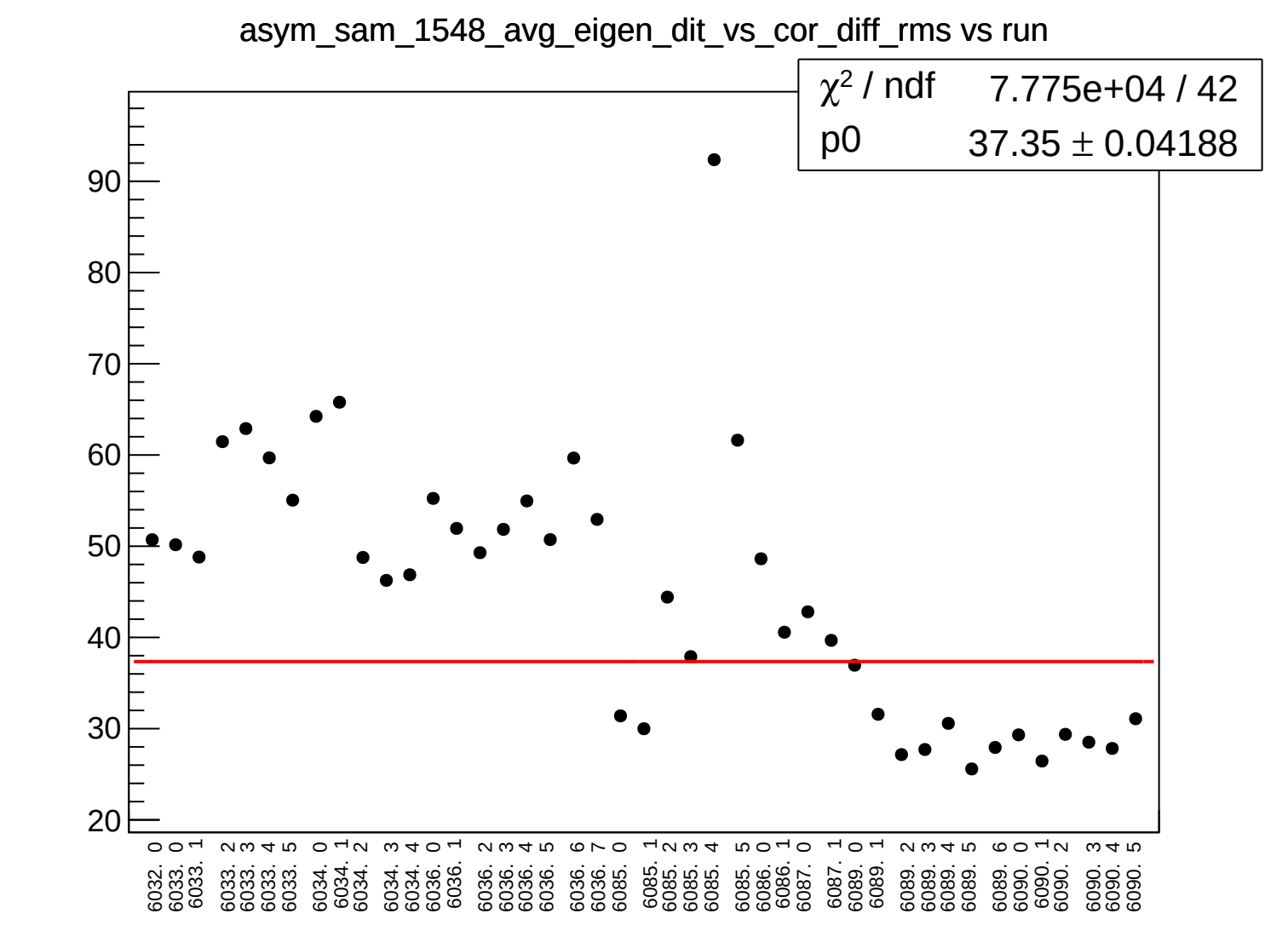

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.85 / 42
p0 0.0591± 0.05923
pull
Entries 43
Mean −62.41
Std Dev 0
pull1D
Entries 43
Mean 0.01474
Std Dev 0.8331

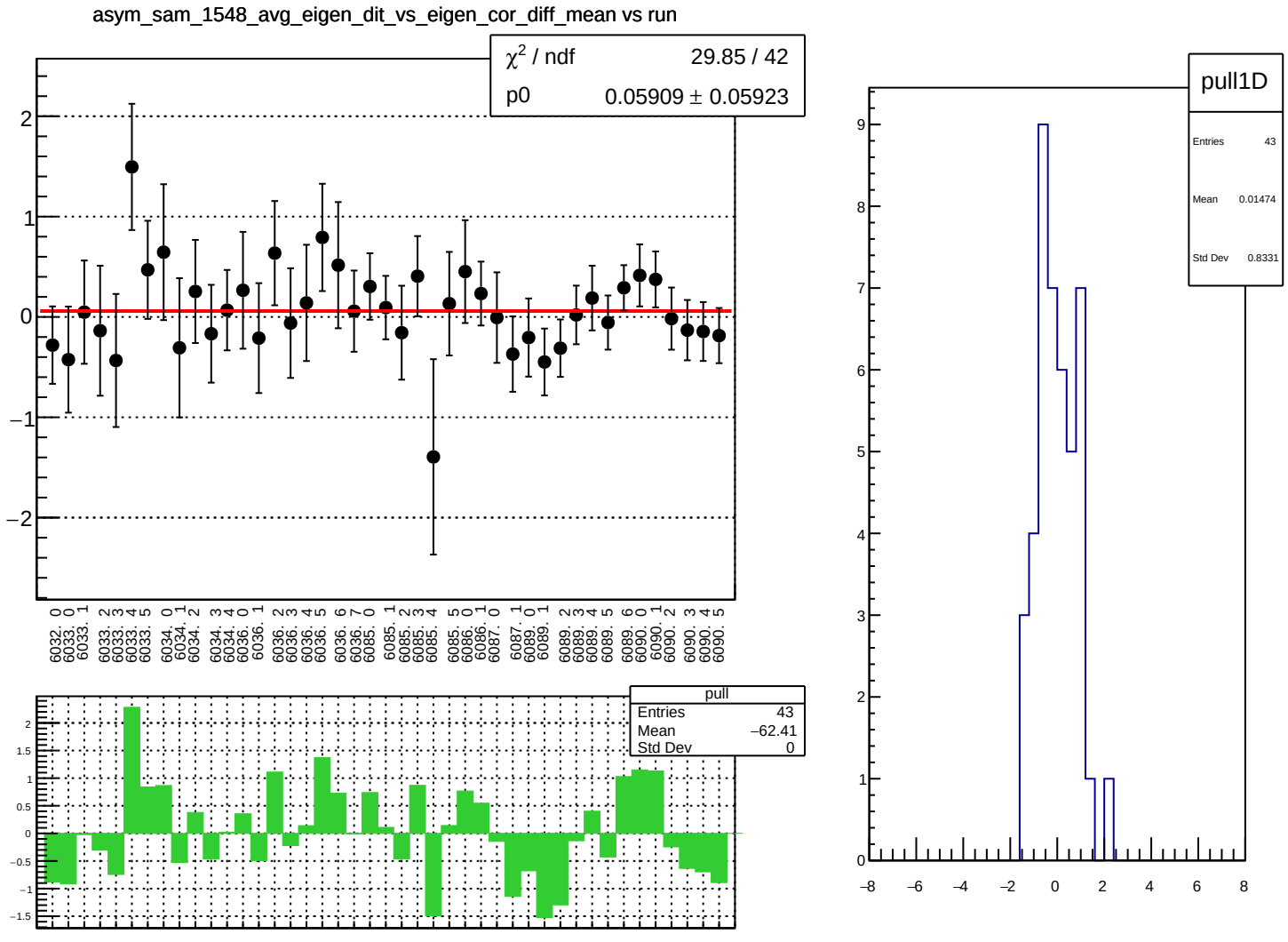

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.775e+04 / 42
p0 37.35 ± 0.04188
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

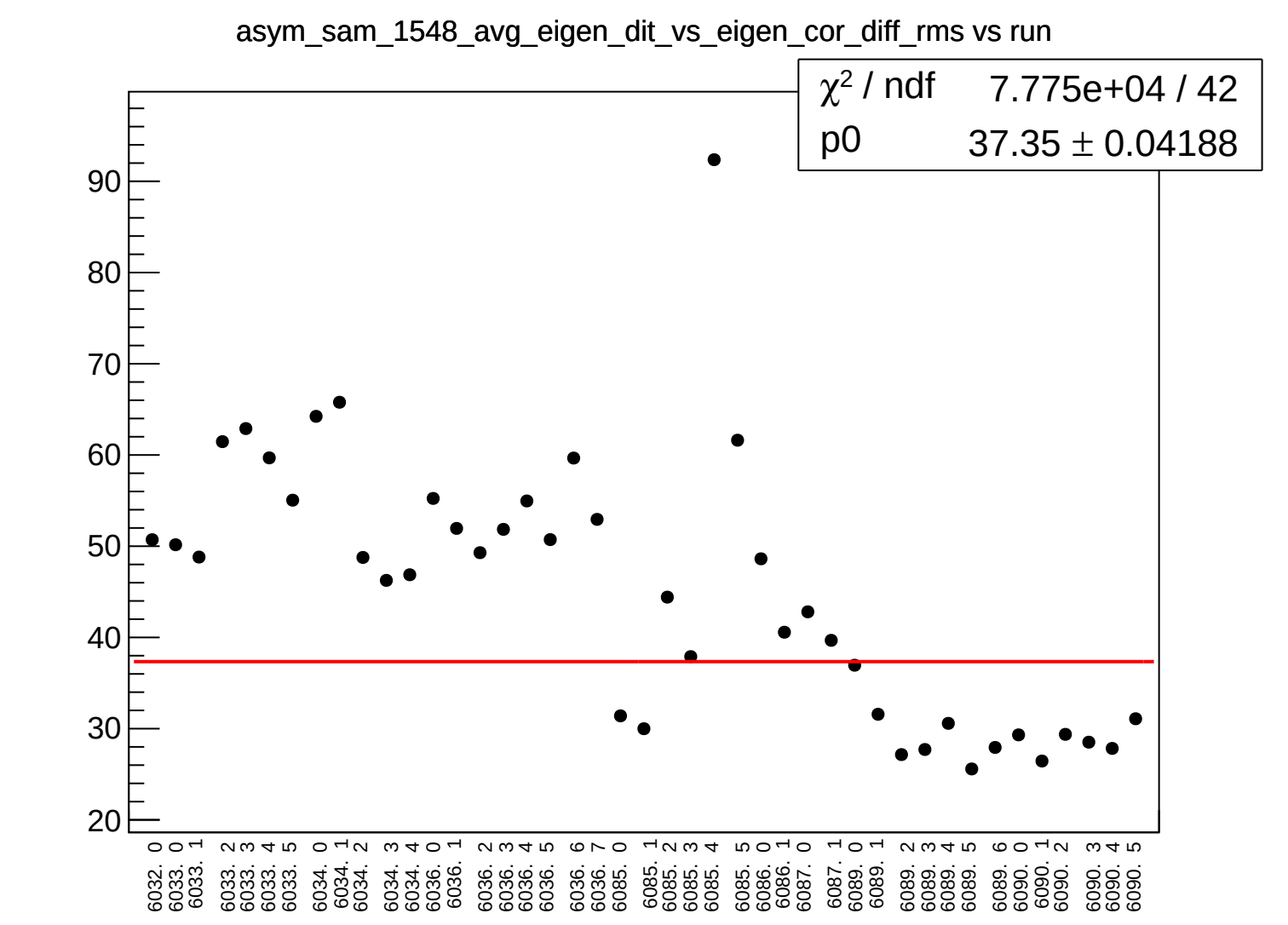

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.62 / 42
p0 −2.9e−06 ± 3.007e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −492.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001948
Std Dev 0.8842
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

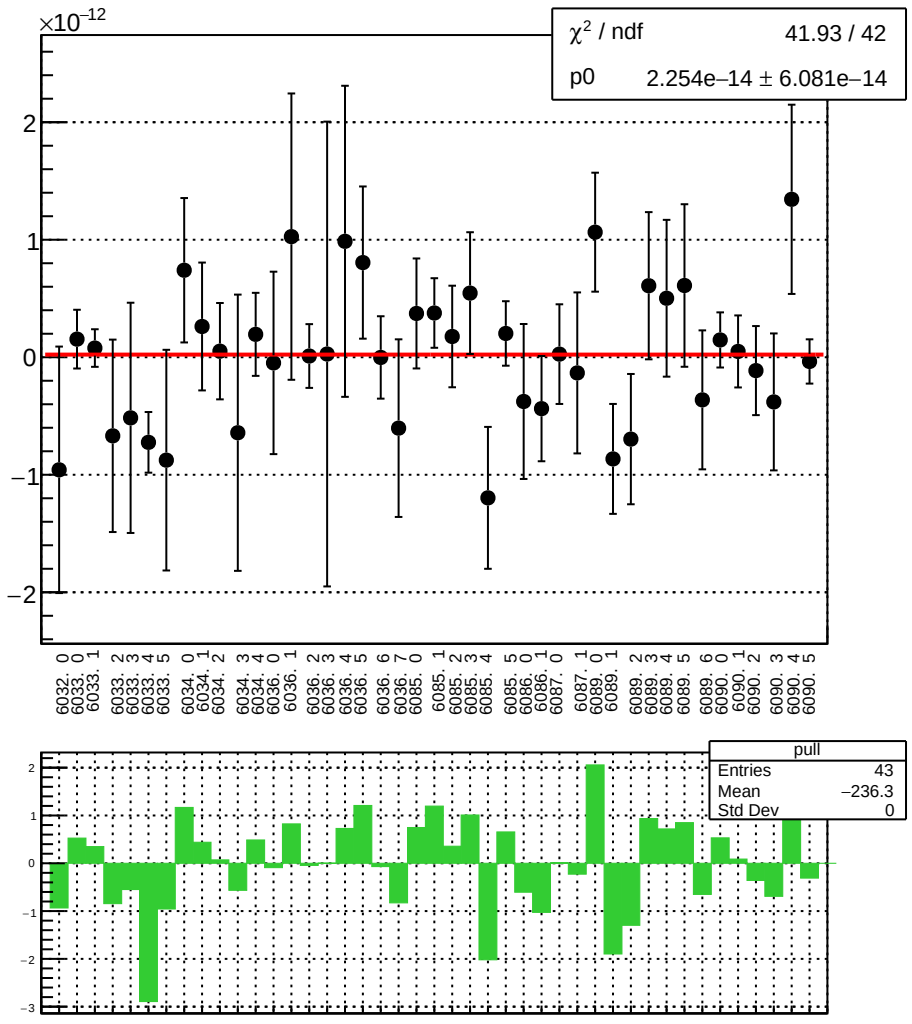

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3730 / 42
p0 0.001983 ± 2.126e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

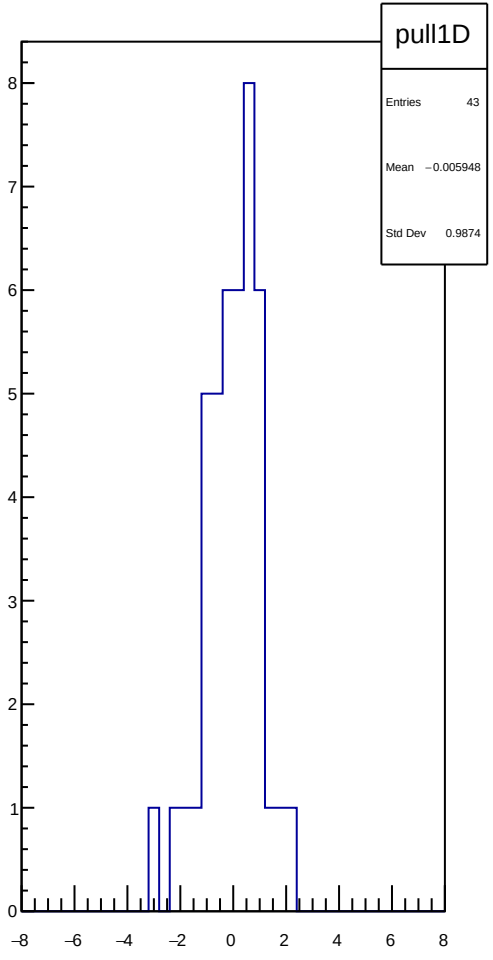

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.85 / 42
p0 0.05909 ± 0.05923
pull
Entries 43
Mean −62.41
Std Dev 0
pull1D
Entries 43
Mean 0.01474
Std Dev 0.8331

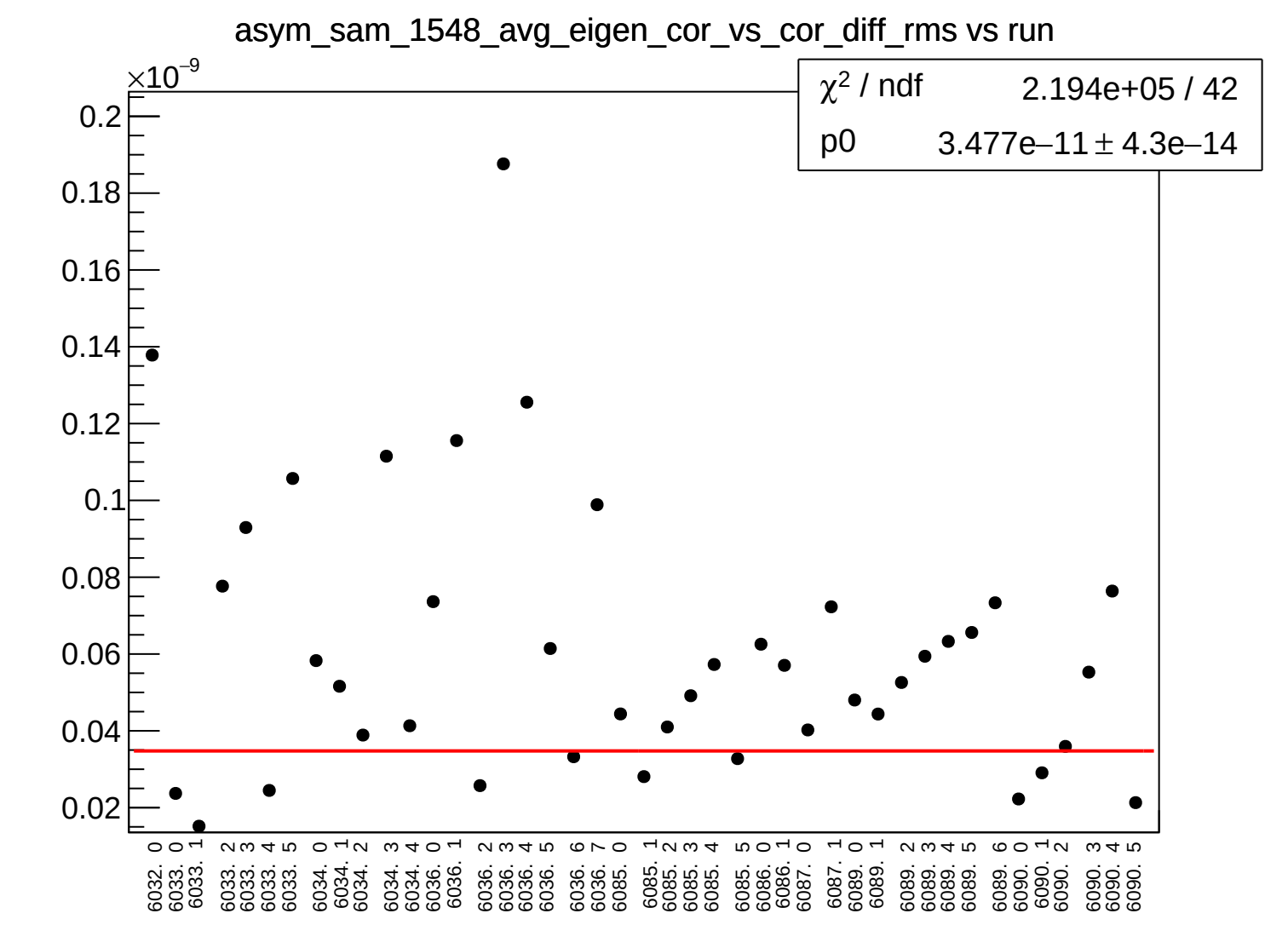

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.775e+04 / 42
p0 37.35 ± 0.04188
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

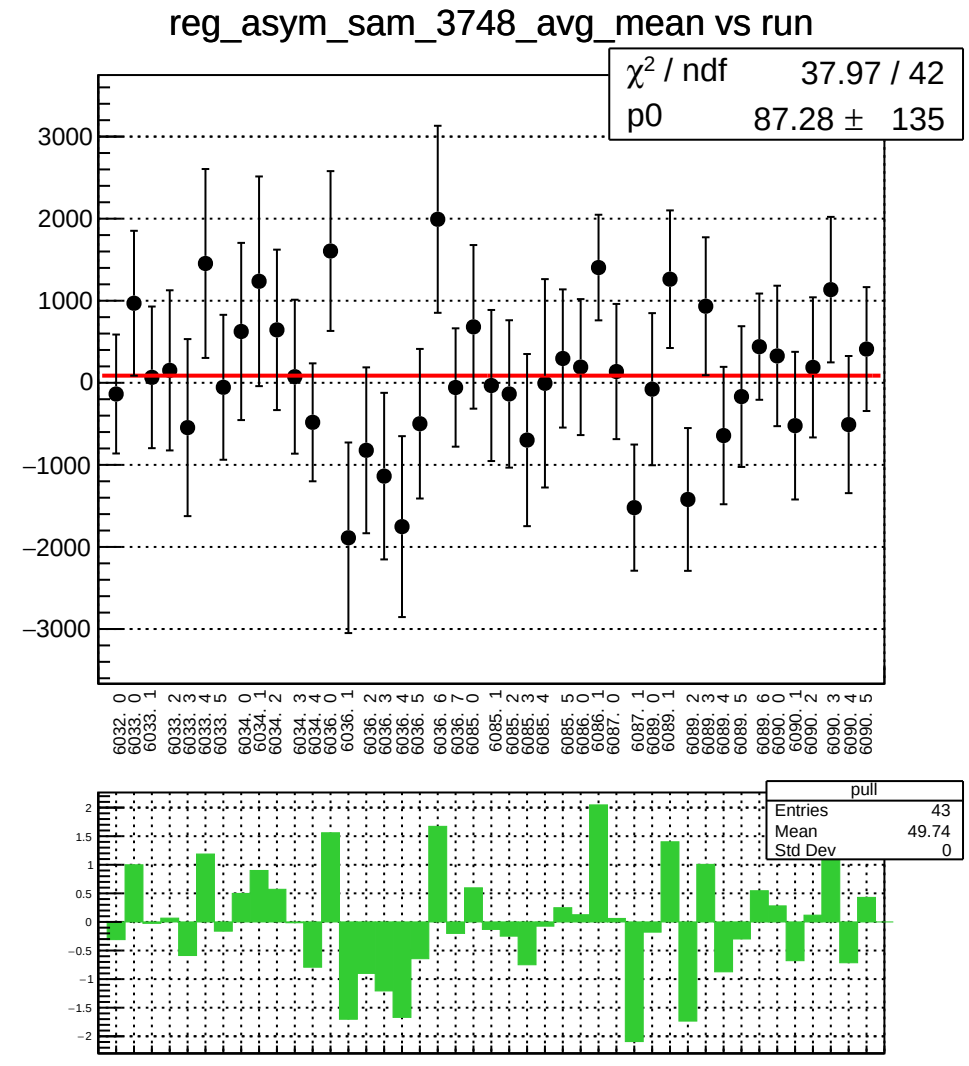

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.85 / 42
p0 0.05909 ± 0.05923
pull
Entries 43
Mean −62.41
Std Dev 0
pull1D
Entries 43
Mean 0.01474
Std Dev 0.8331

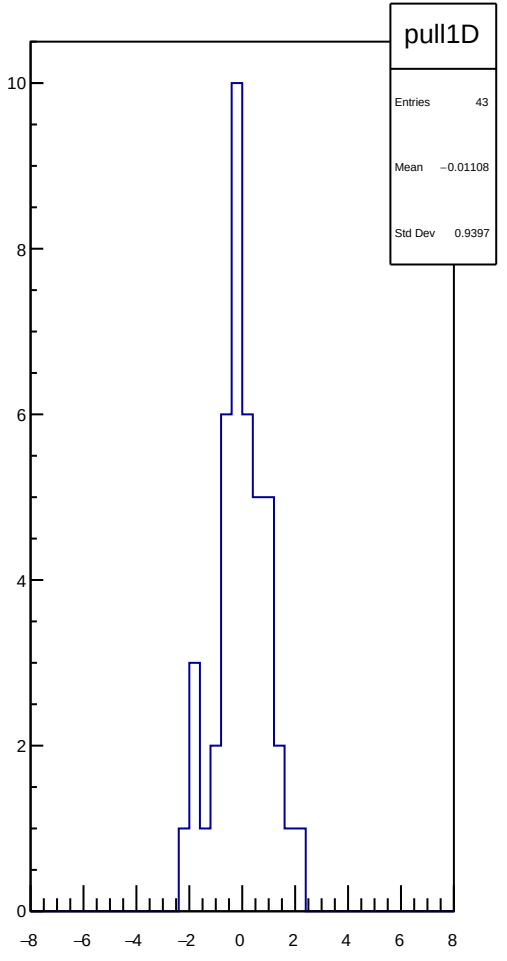

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.775e+04 / 42
p0 37.35 ± 0.04188
90
80
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

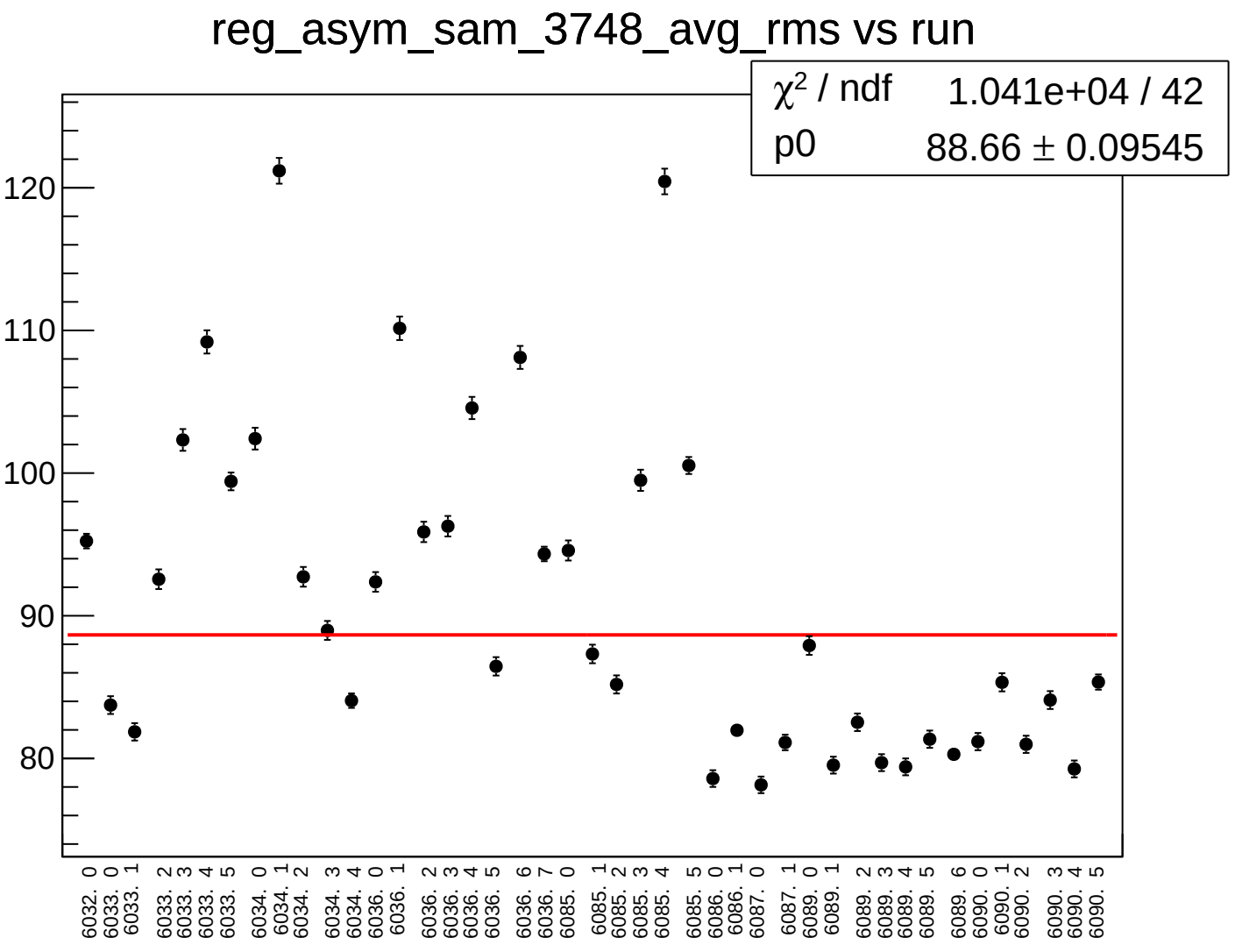

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.93 / 42
p0 2.254e−14 ± 6.081e−14
2
1
0
−1
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −236.3
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.005948
Std Dev 0.9874
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

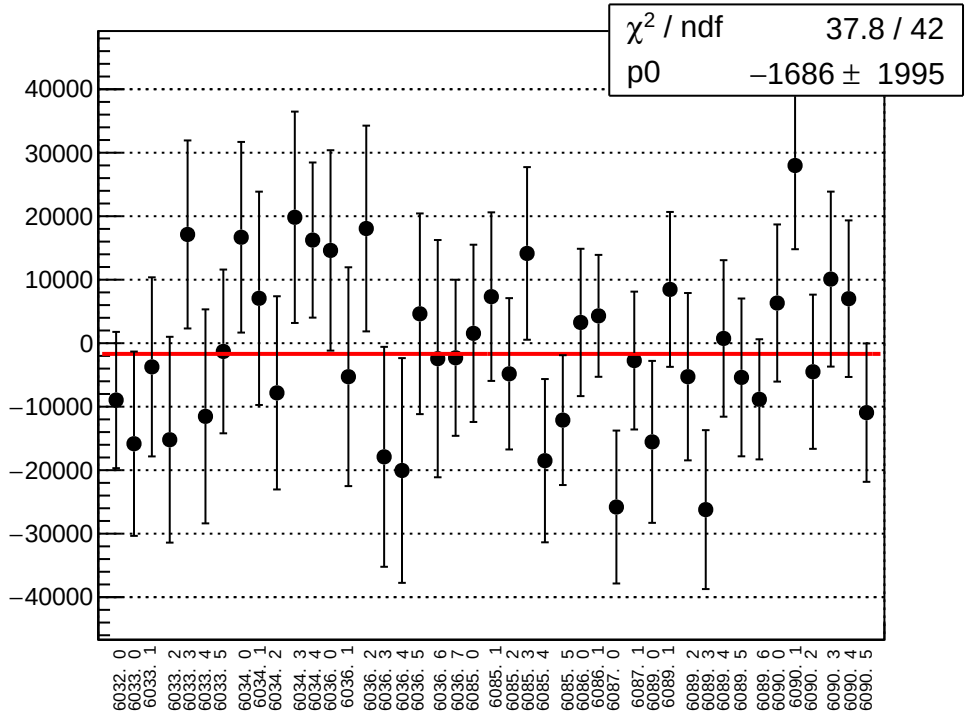

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.194e+05 / 42
p0 3.477e−11 ± 4.3e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

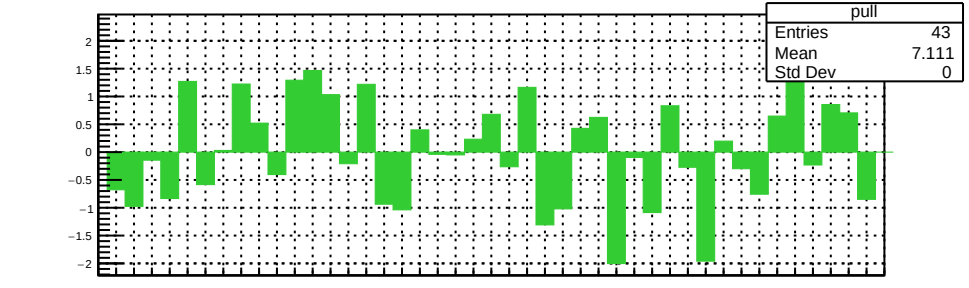

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 37.97 / 42
p0 87.28 ± 135
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 49.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

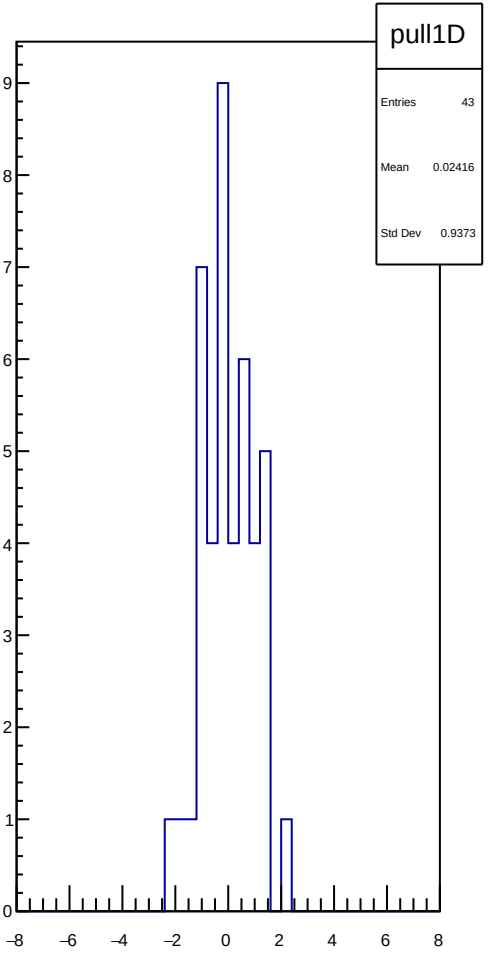

pull1D
Entries 43
Mean −0.01108
Std Dev 0.9397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

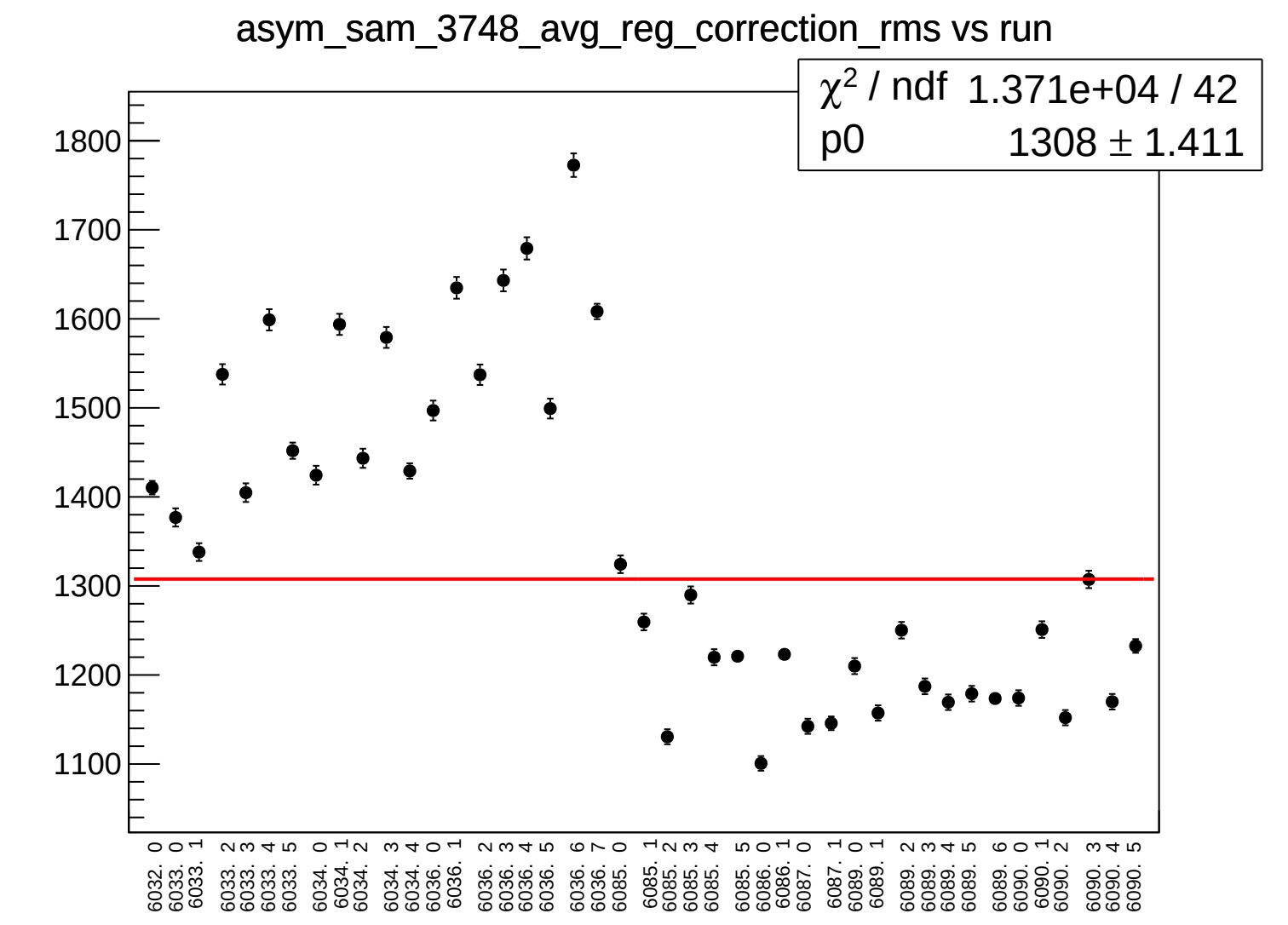

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.041e+04 / 42
p0 88.66 ± 0.09545
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

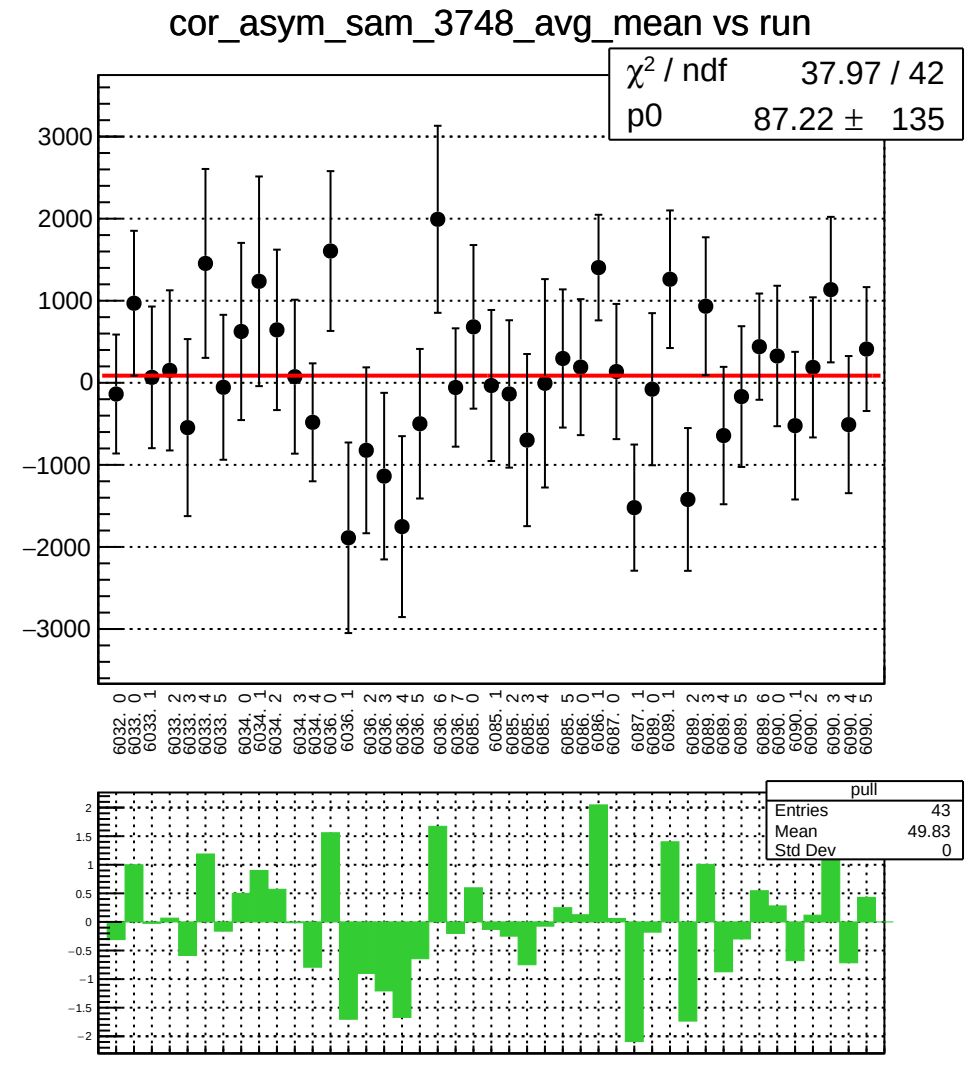
asym_sam_3748_avg_reg_correction_mean vs run

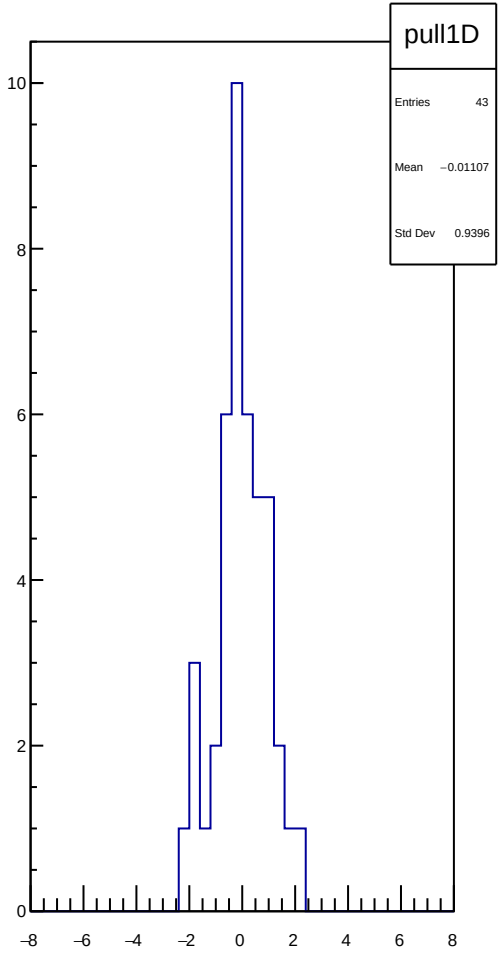


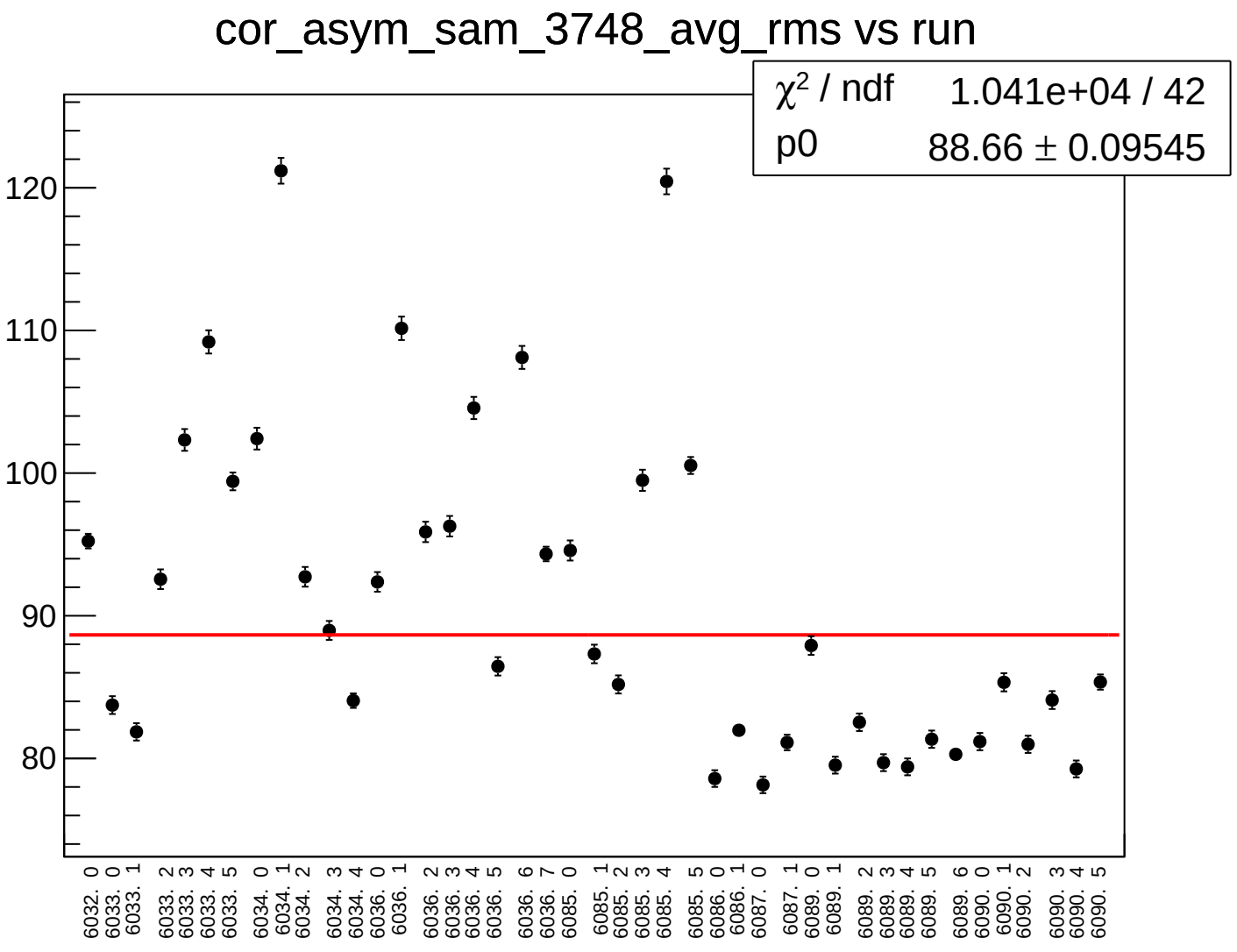


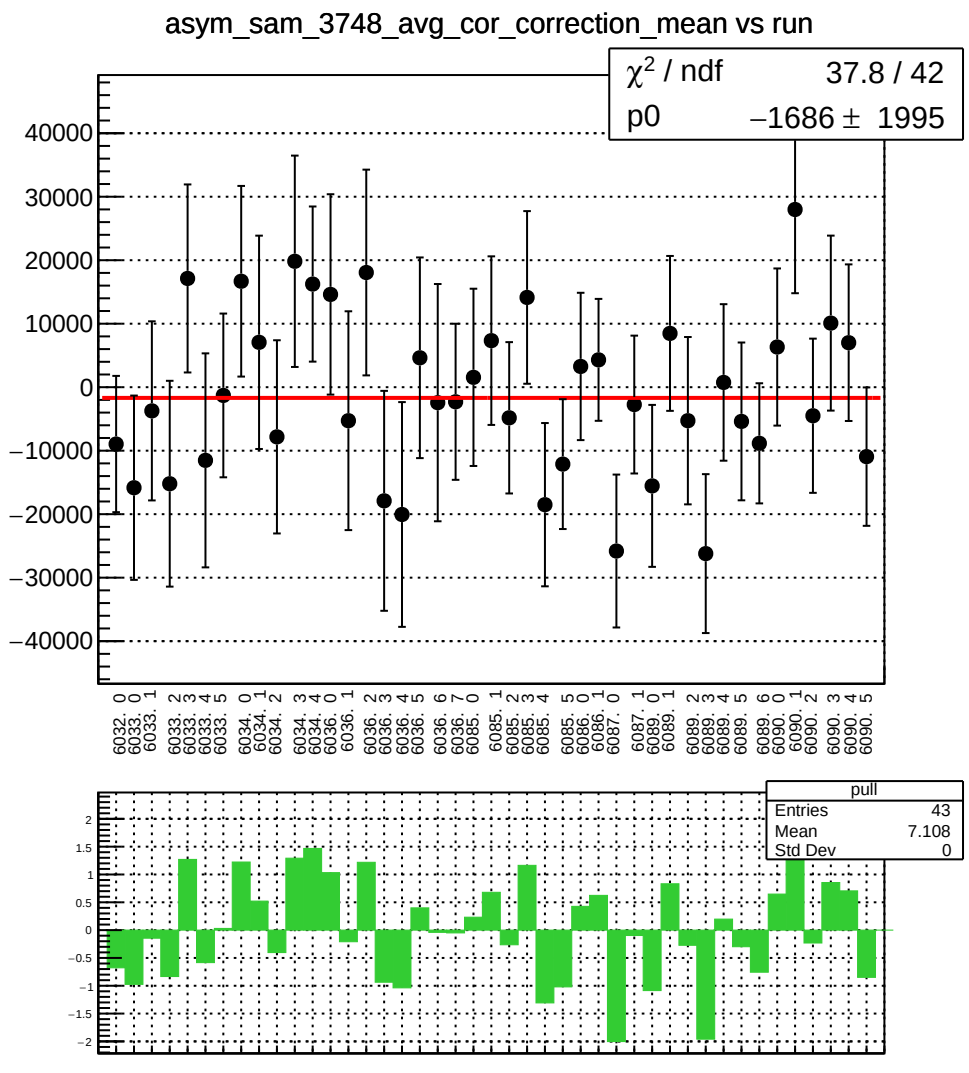


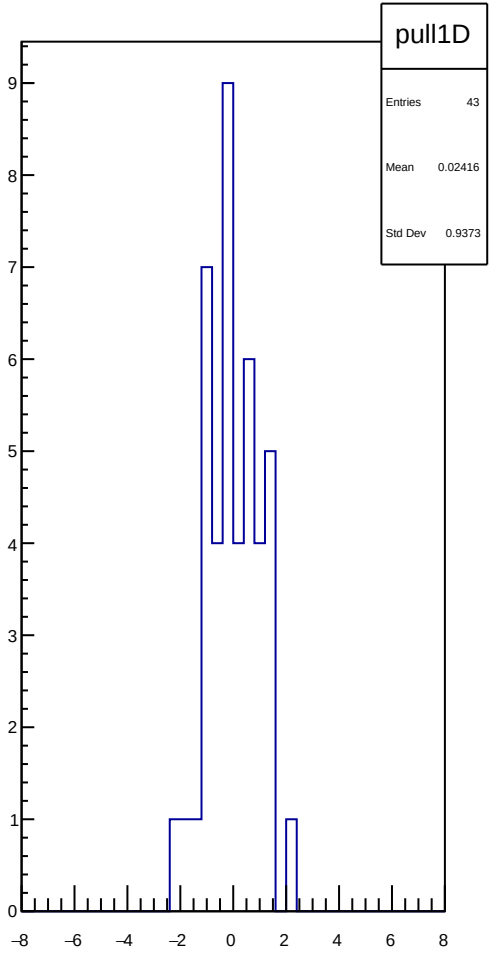

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.371e+04 / 42
p0 1308 ± 1.411
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

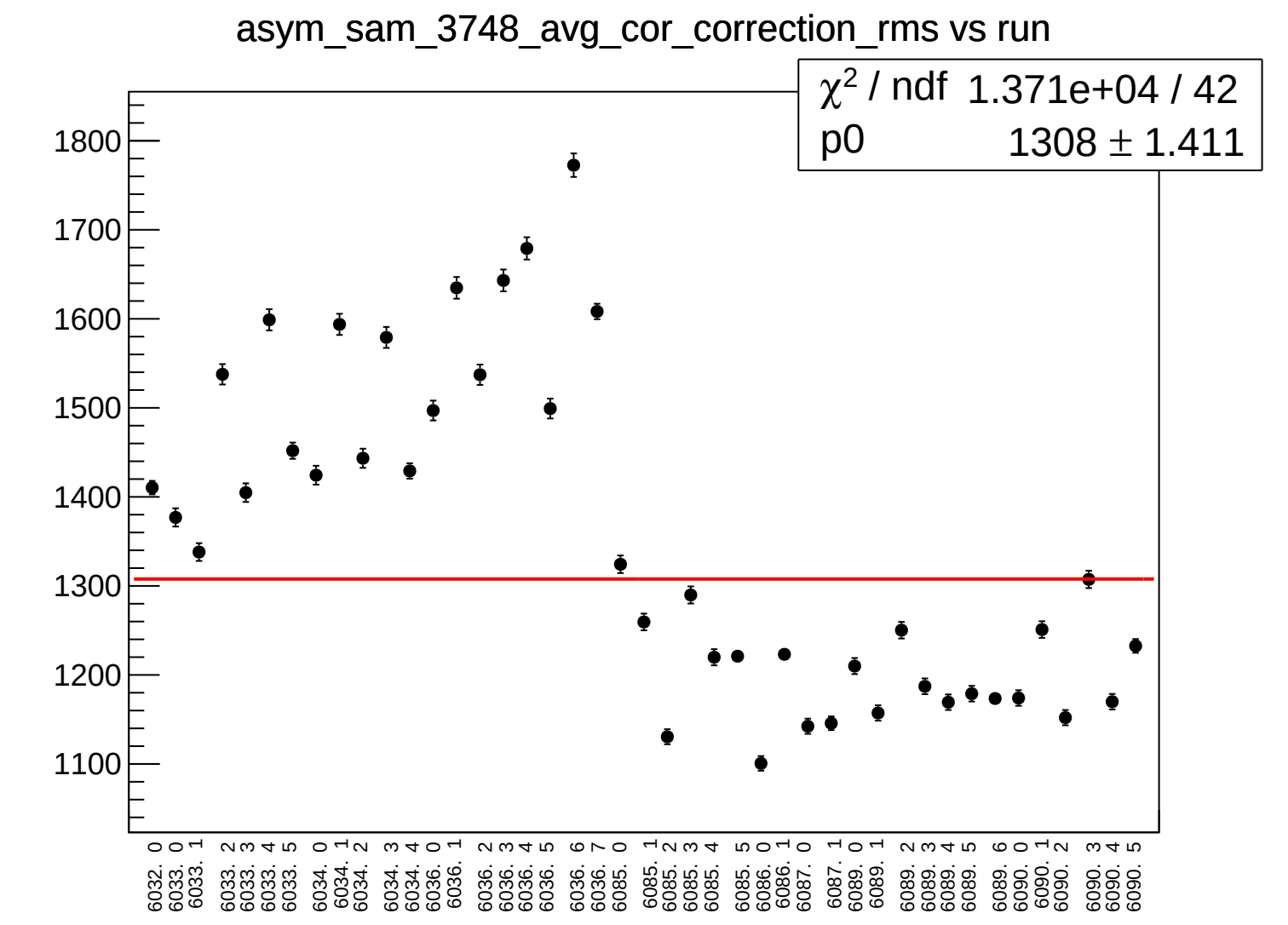

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 37.97 / 42
p0 87.22 ± 135
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 49.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

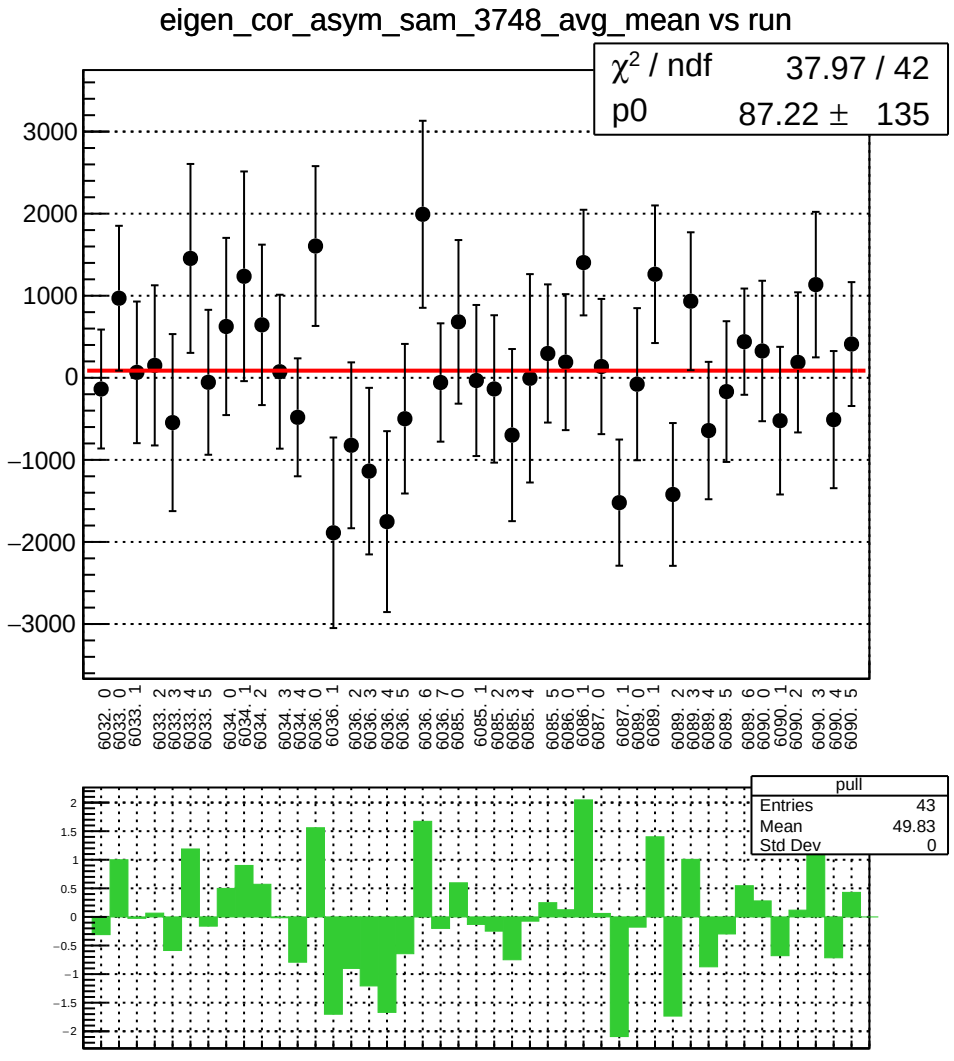

pull1D
Entries 43
Mean −0.01107
Std Dev 0.9396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

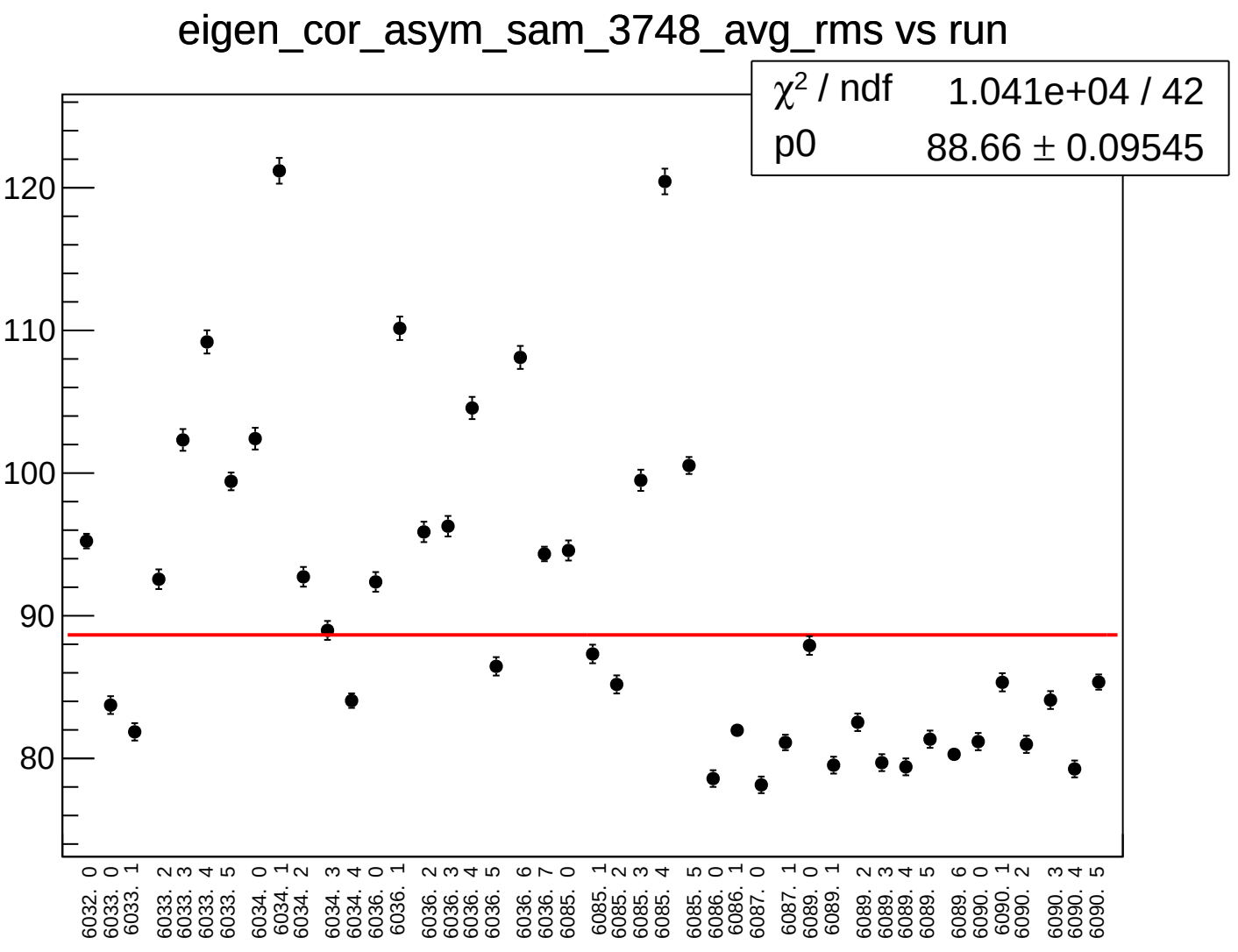

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.041e+04 / 42
p0 88.66 ± 0.09545
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

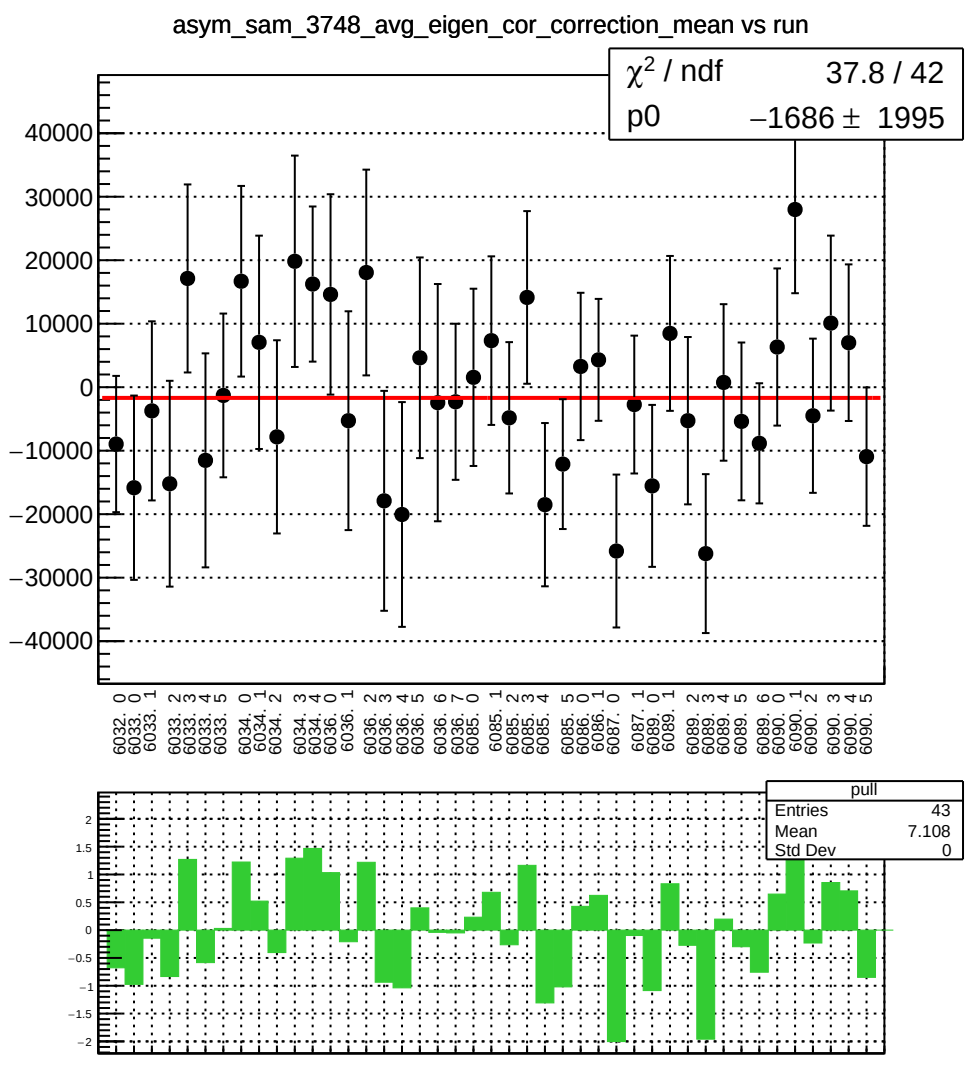

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 37.8 / 42
p0 −1686 ± 1995
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.108
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

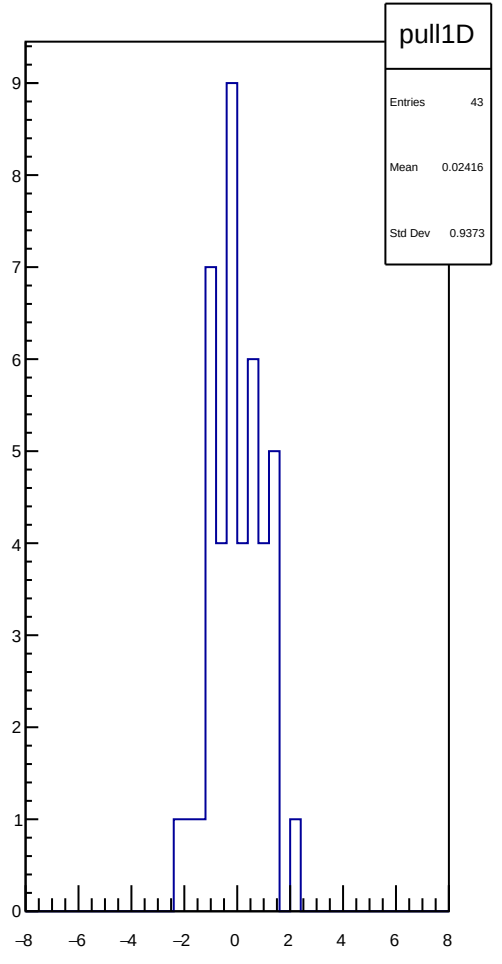

pull1D
Entries 43
Mean 0.02416
Std Dev 0.9373
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

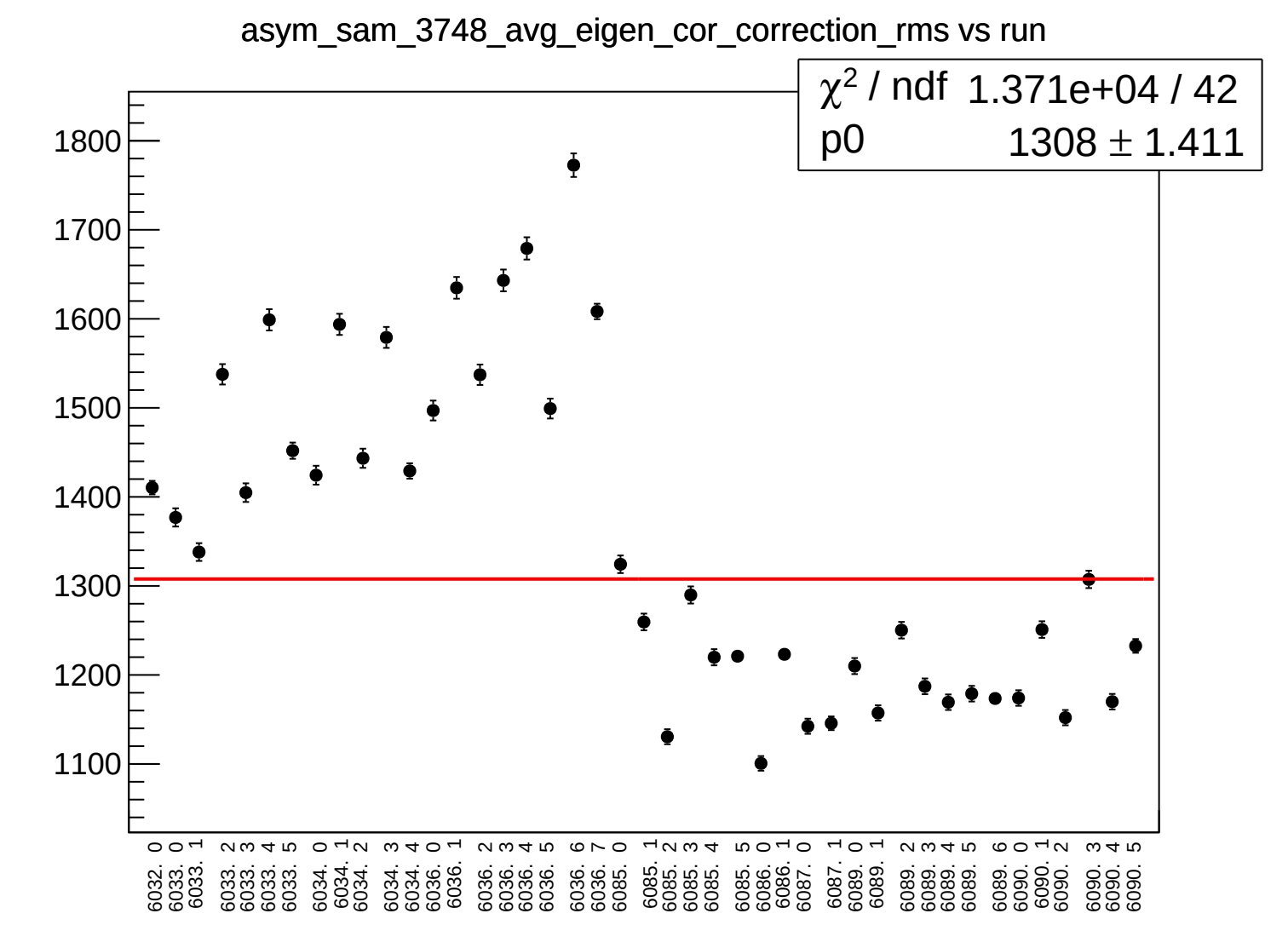

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.371e+04 / 42
p0 1308 ± 1.411
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

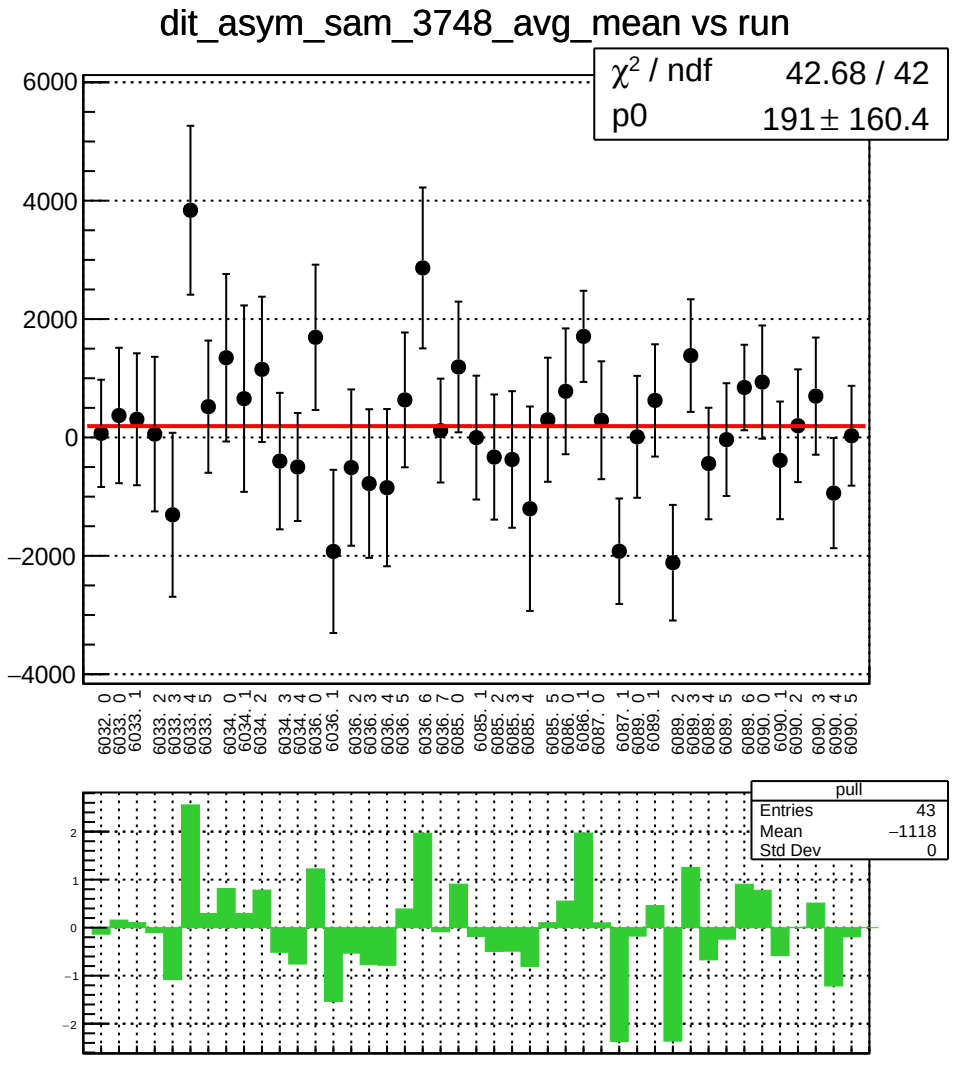

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 37.97 / 42
p0 87.22 ± 135
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 49.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01107
Std Dev 0.9396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

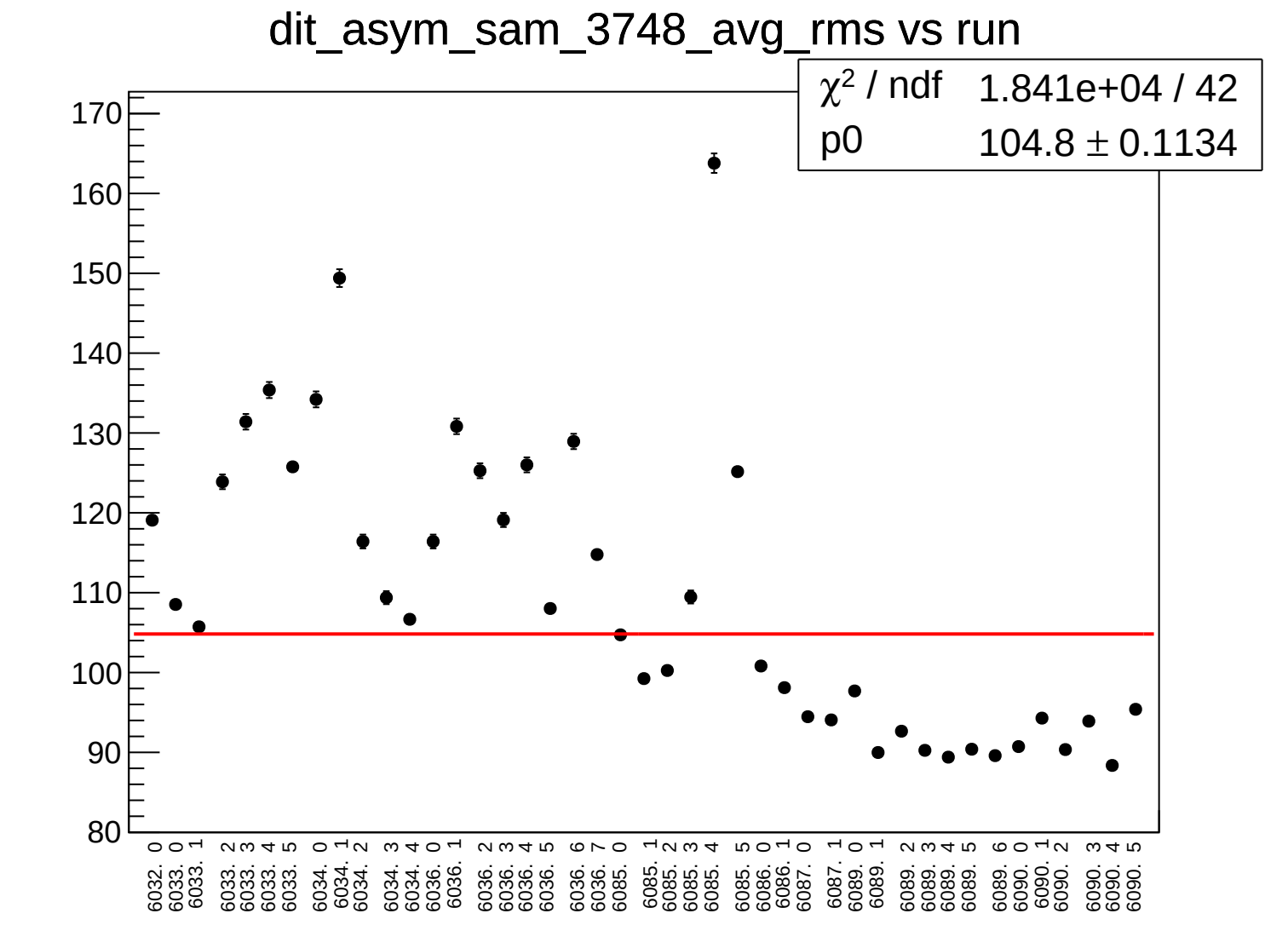

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.041e+04 / 42
p0 88.66 ± 0.09545
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

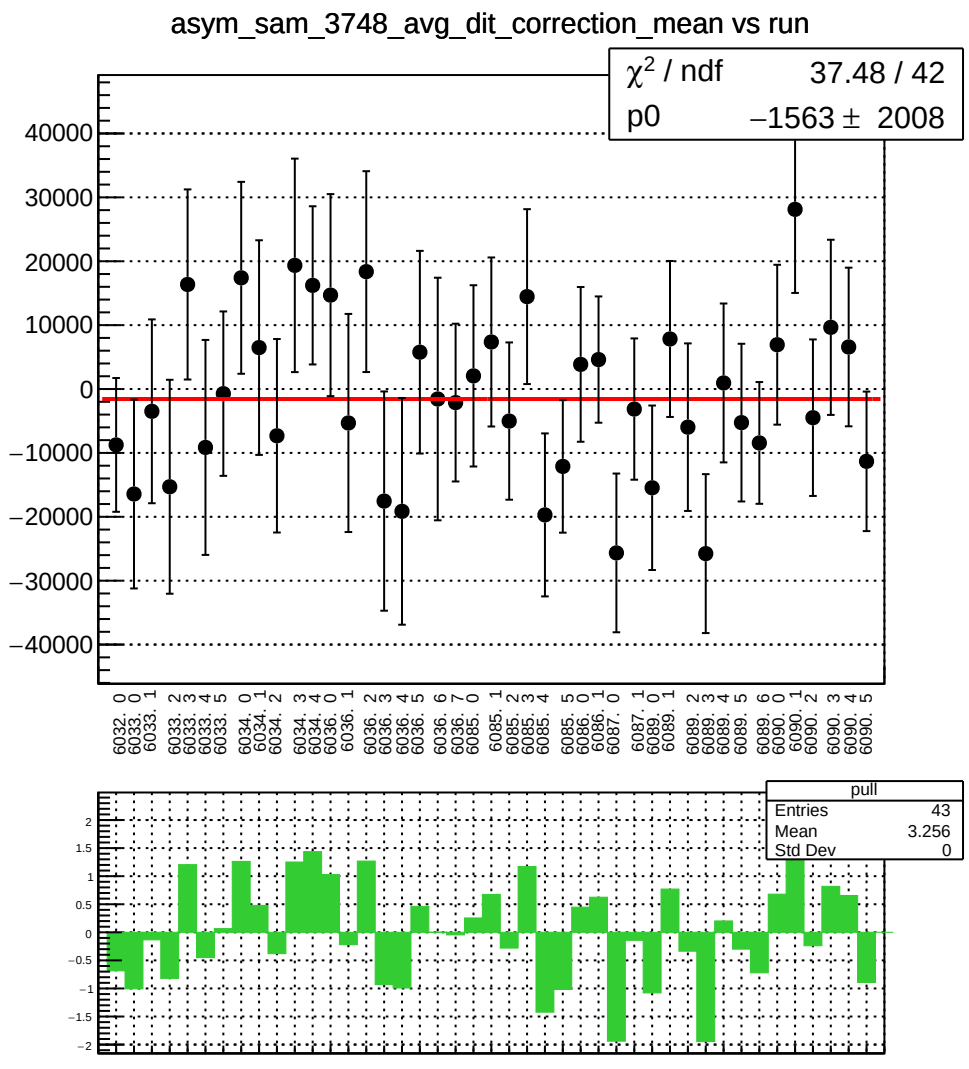

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.8 / 42
p0 −1686 ± 1995
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.108
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

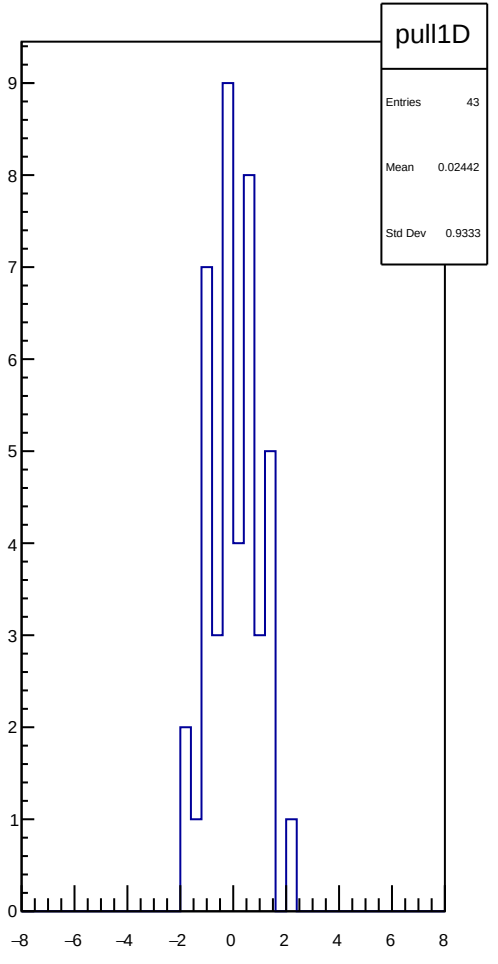

pull1D
Entries 43
Mean 0.02416
Std Dev 0.9373
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

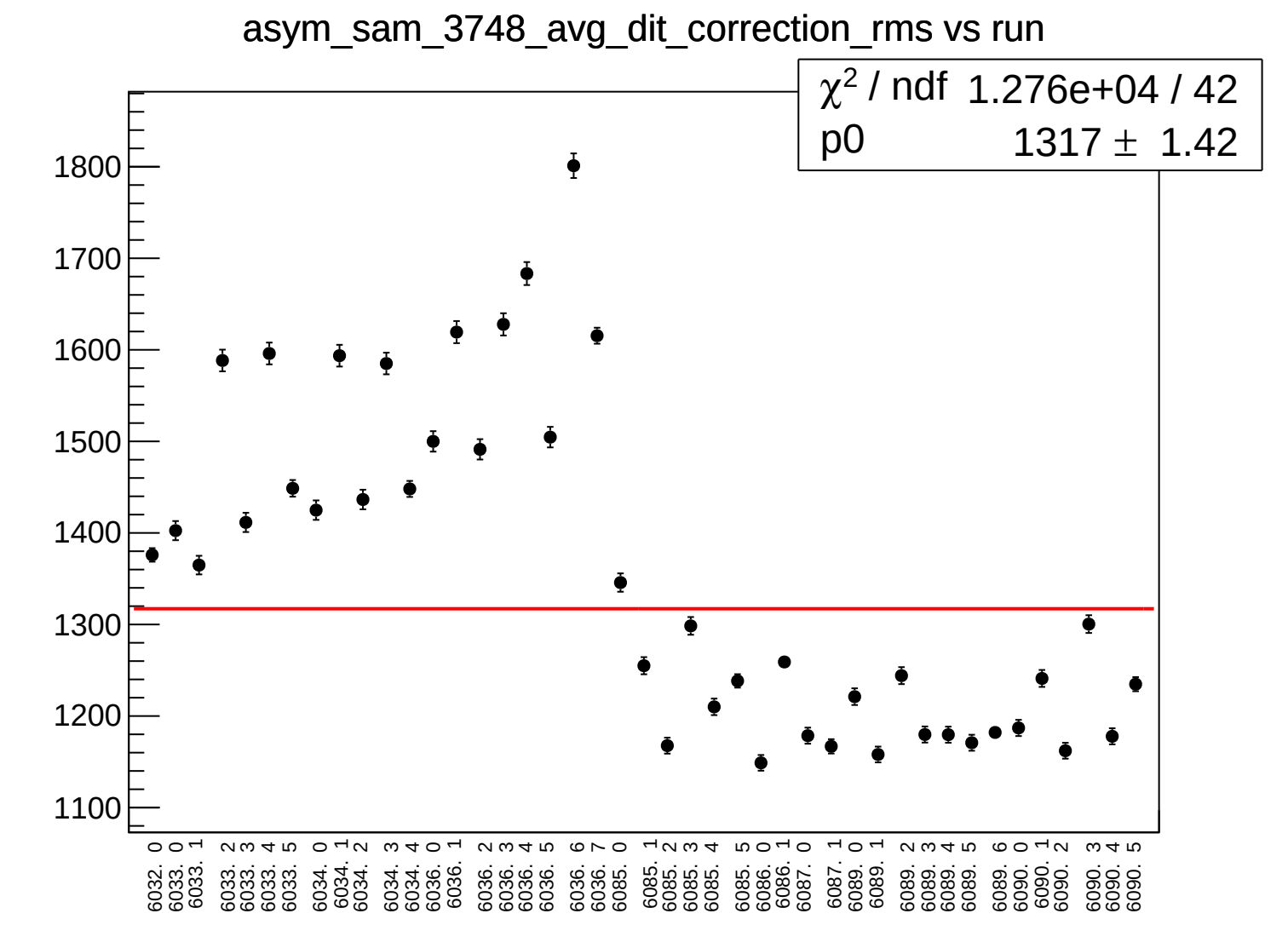

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.371e+04 / 42
p0 1308 ± 1.411
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

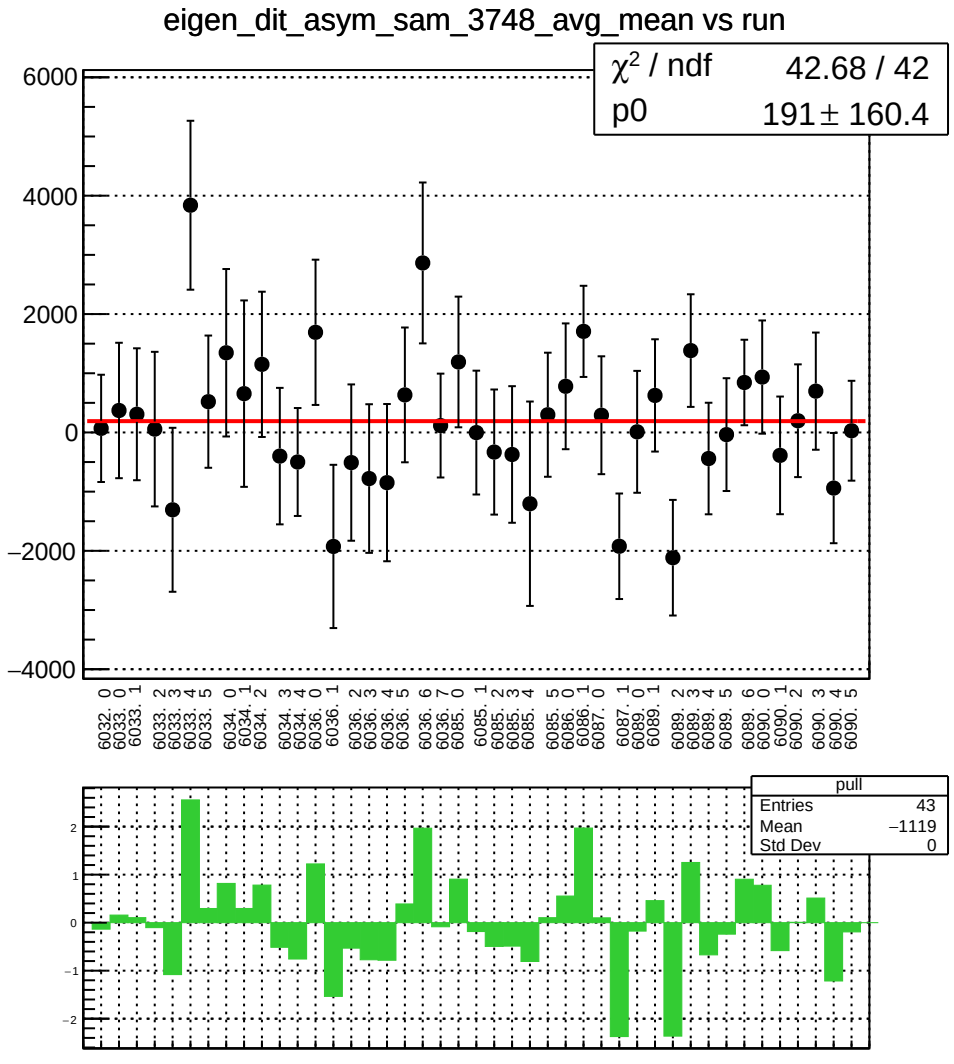

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 42.68 / 42
p0 191 ± 160.4
6000
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1118
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001286
Std Dev 0.9962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

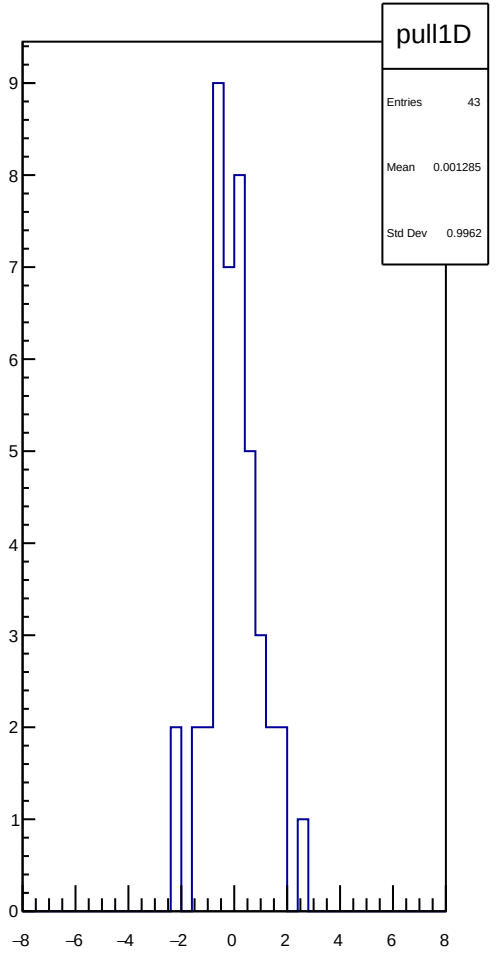

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.841e+04 / 42
p0 104.8 ± 0.1134
170
160
150
140
130
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

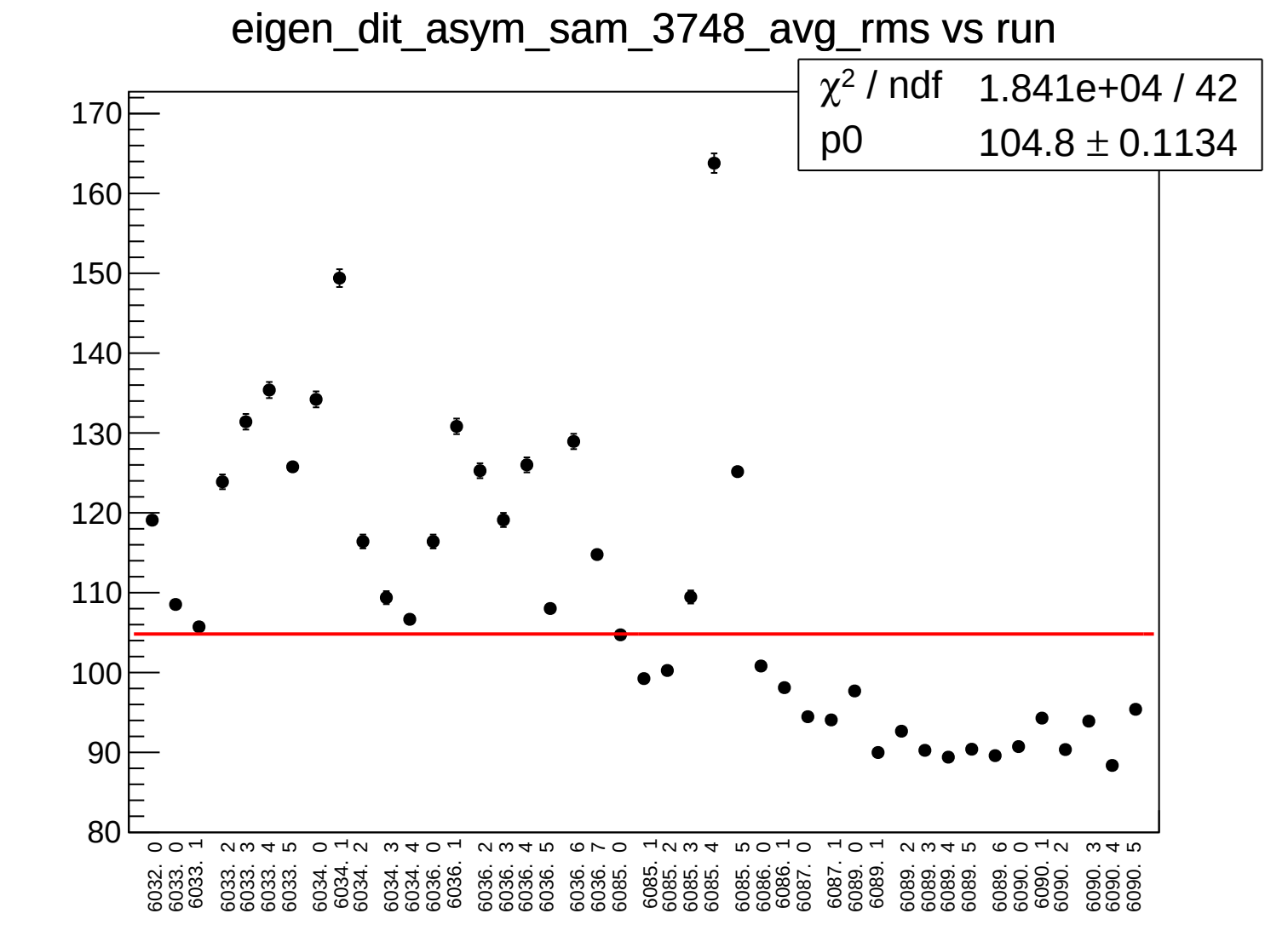

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 37.48 / 42
p0 −1563 ± 2008
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.256
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

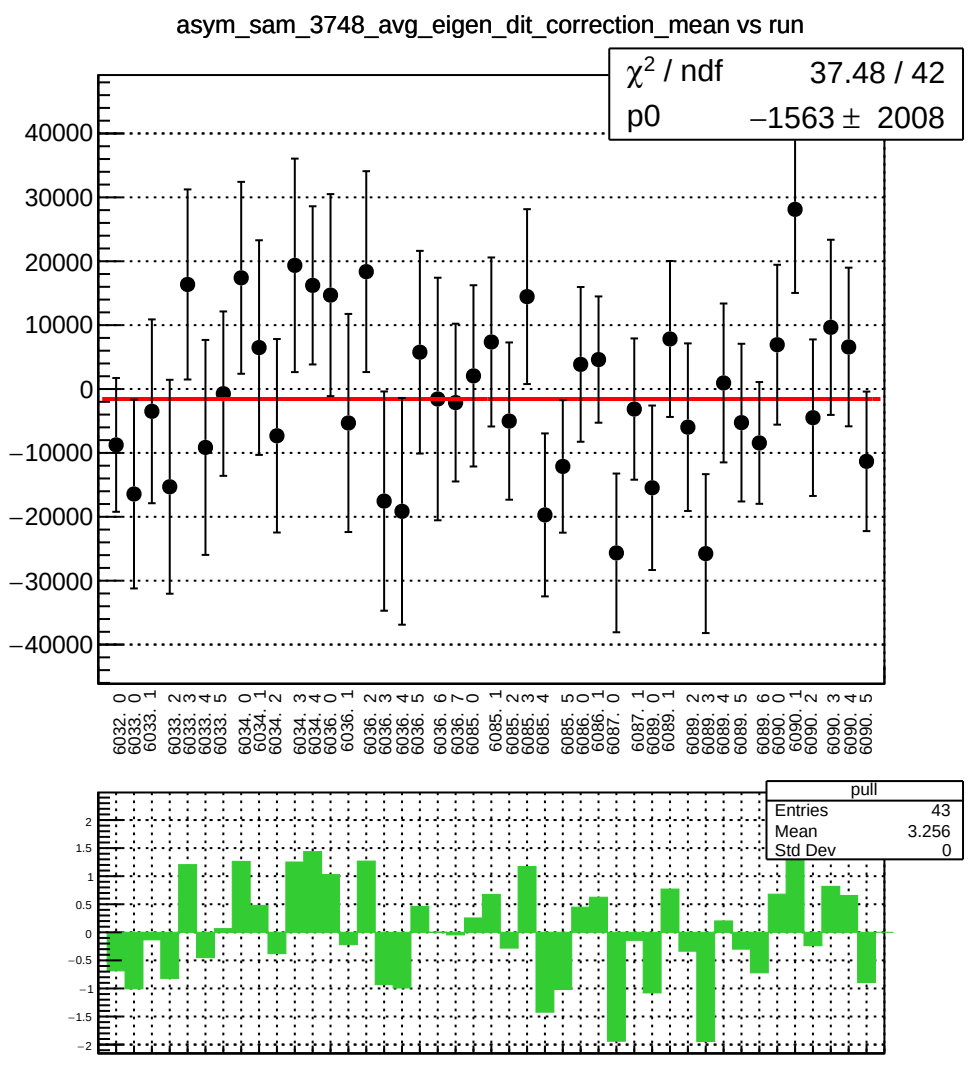

pull1D
Entries 43
Mean 0.02442
Std Dev 0.9333
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

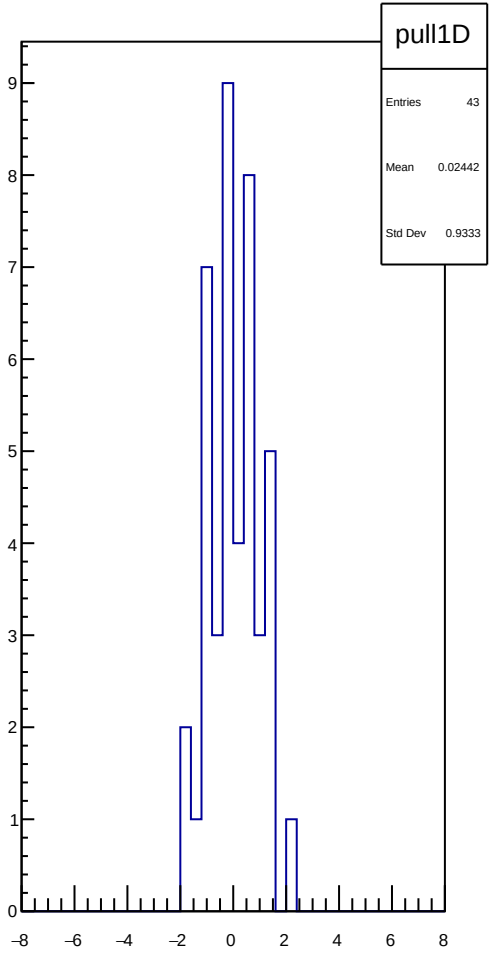

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.276e+04 / 42
p0 1317 ± 1.42
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

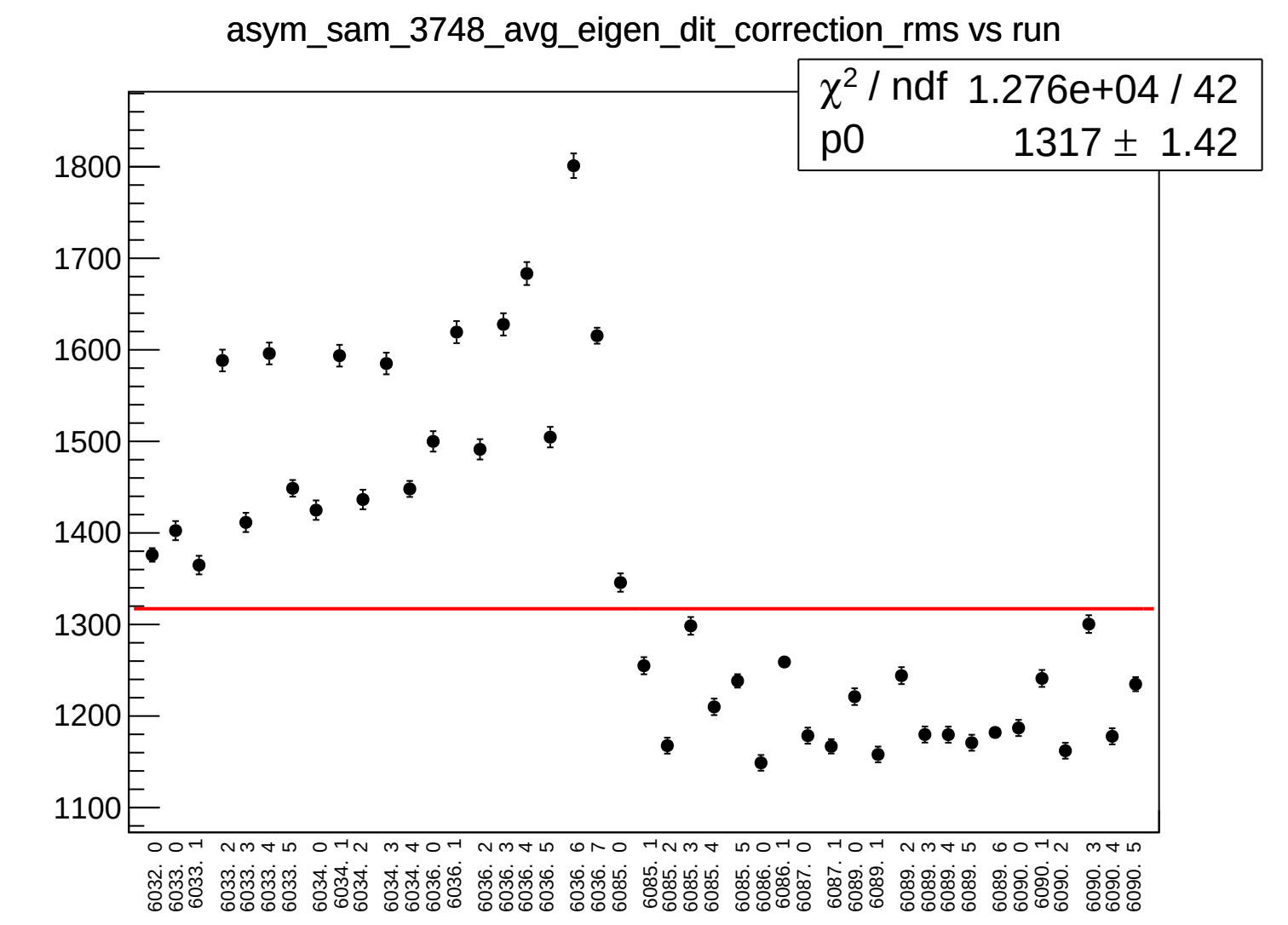

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 42.68 / 42
p0 191 ± 160.4
6000
4000
2000
0
−2000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1119
Std Dev 0
2
1
0
−1
−2

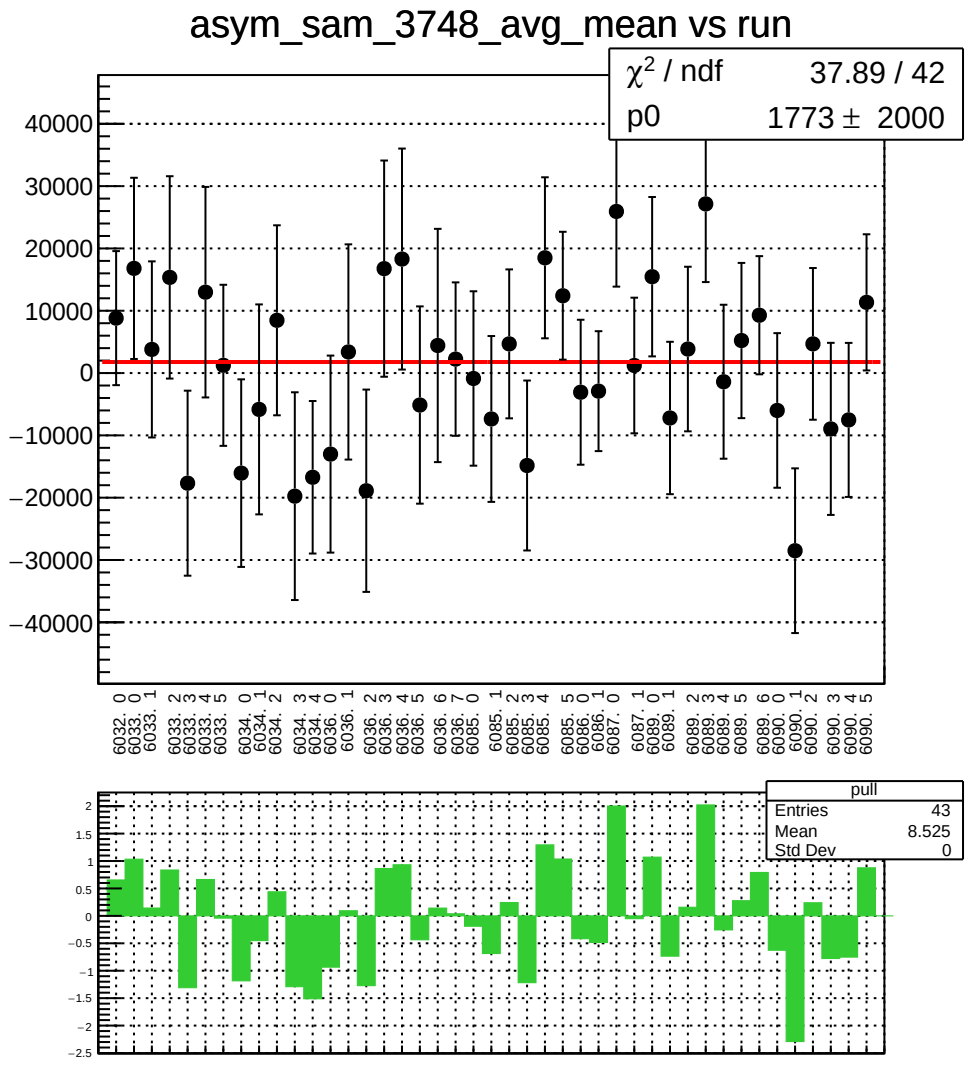

pull1D
Entries 43
Mean 0.001285
Std Dev 0.9962
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

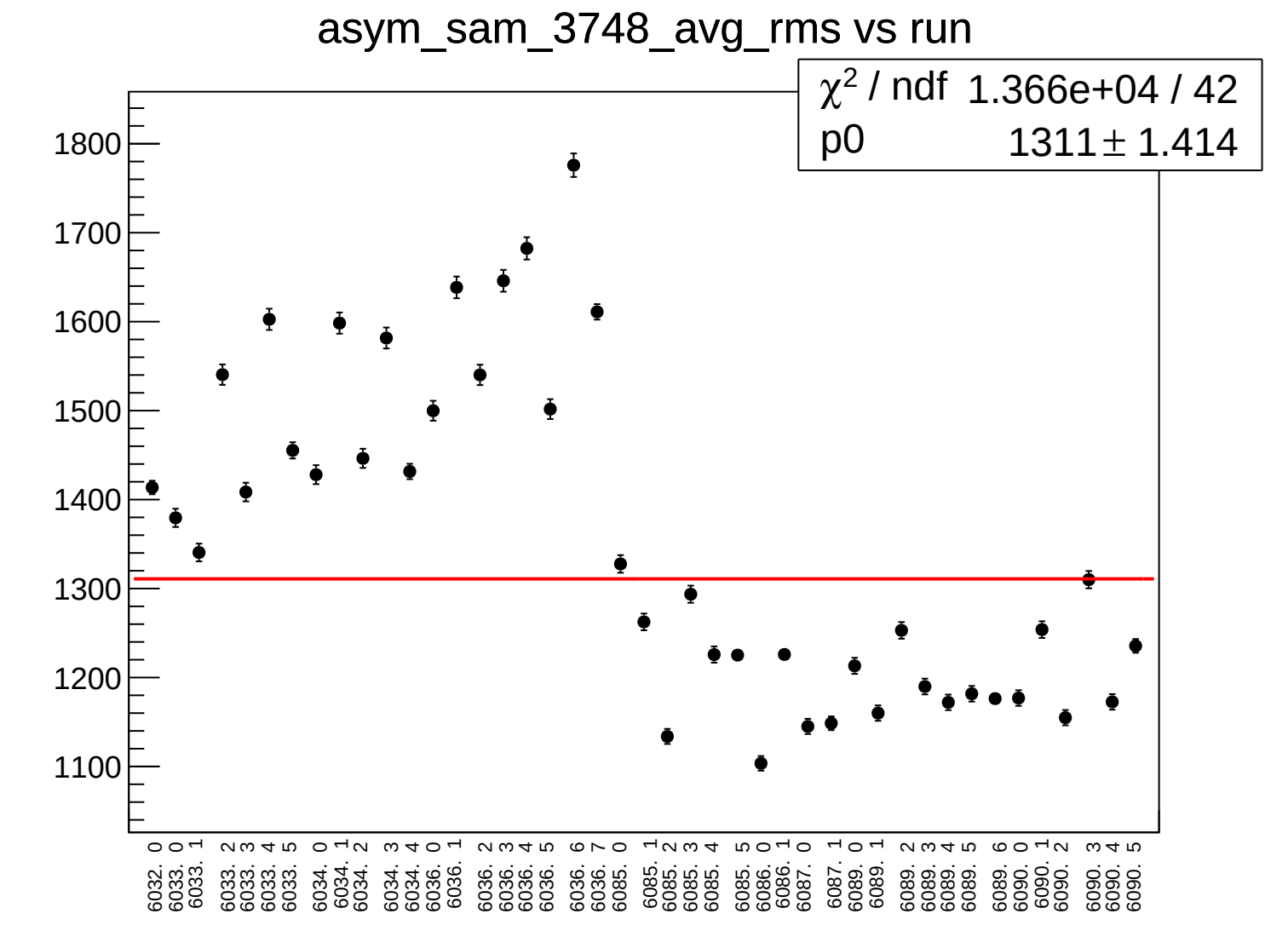

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.841e+04 / 42
p0 104.8 ± 0.1134
170
160
150
140
130
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

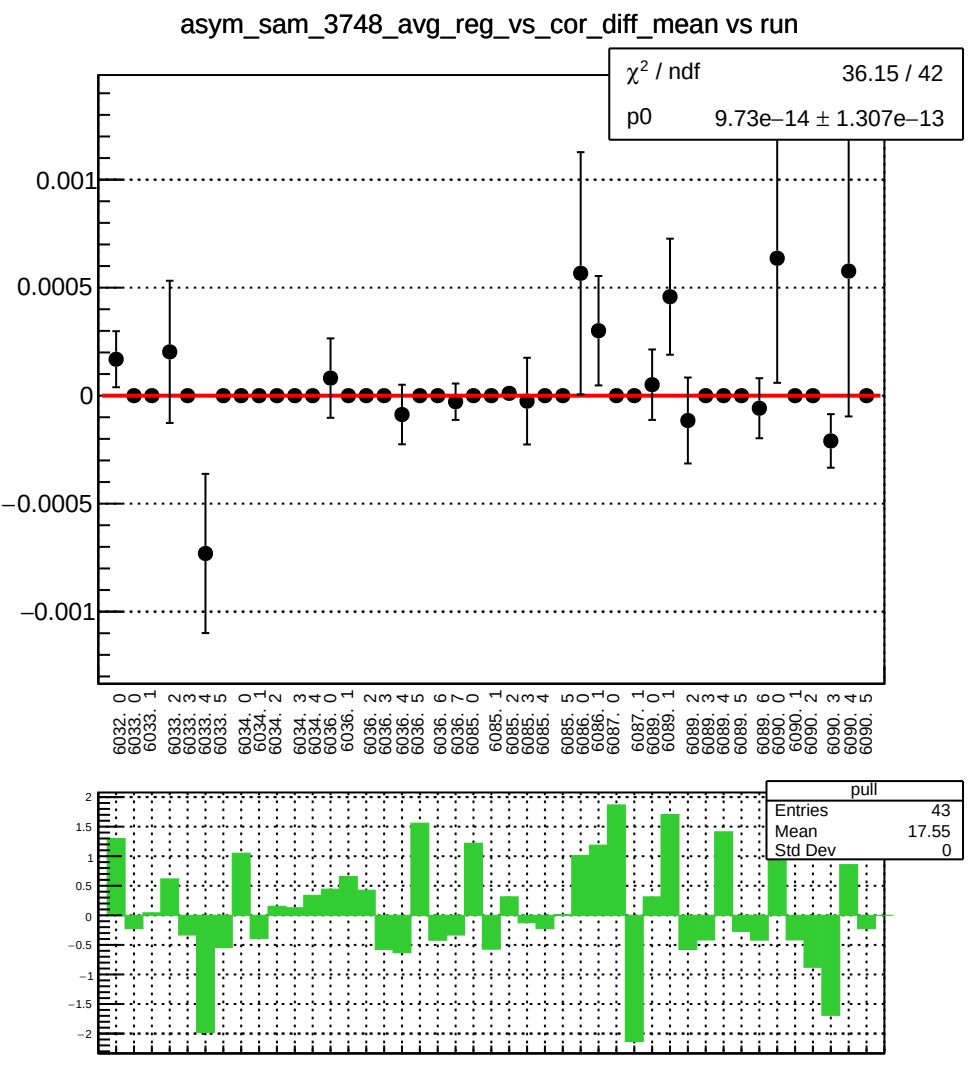

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.48 / 42
p0 −1563 ± 2008
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.256
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

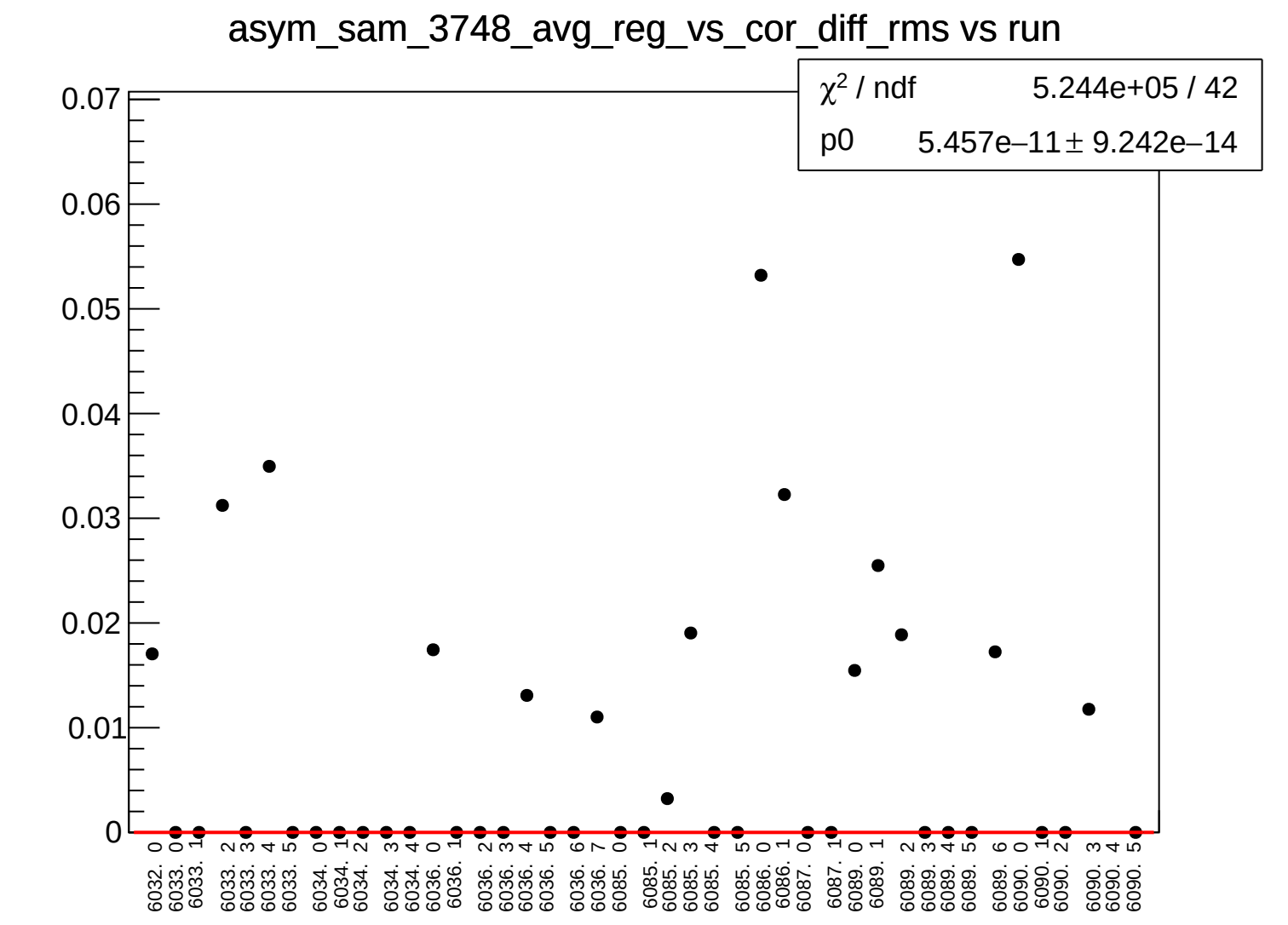

pull1D
Entries 43
Mean 0.02442
Std Dev 0.9333
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

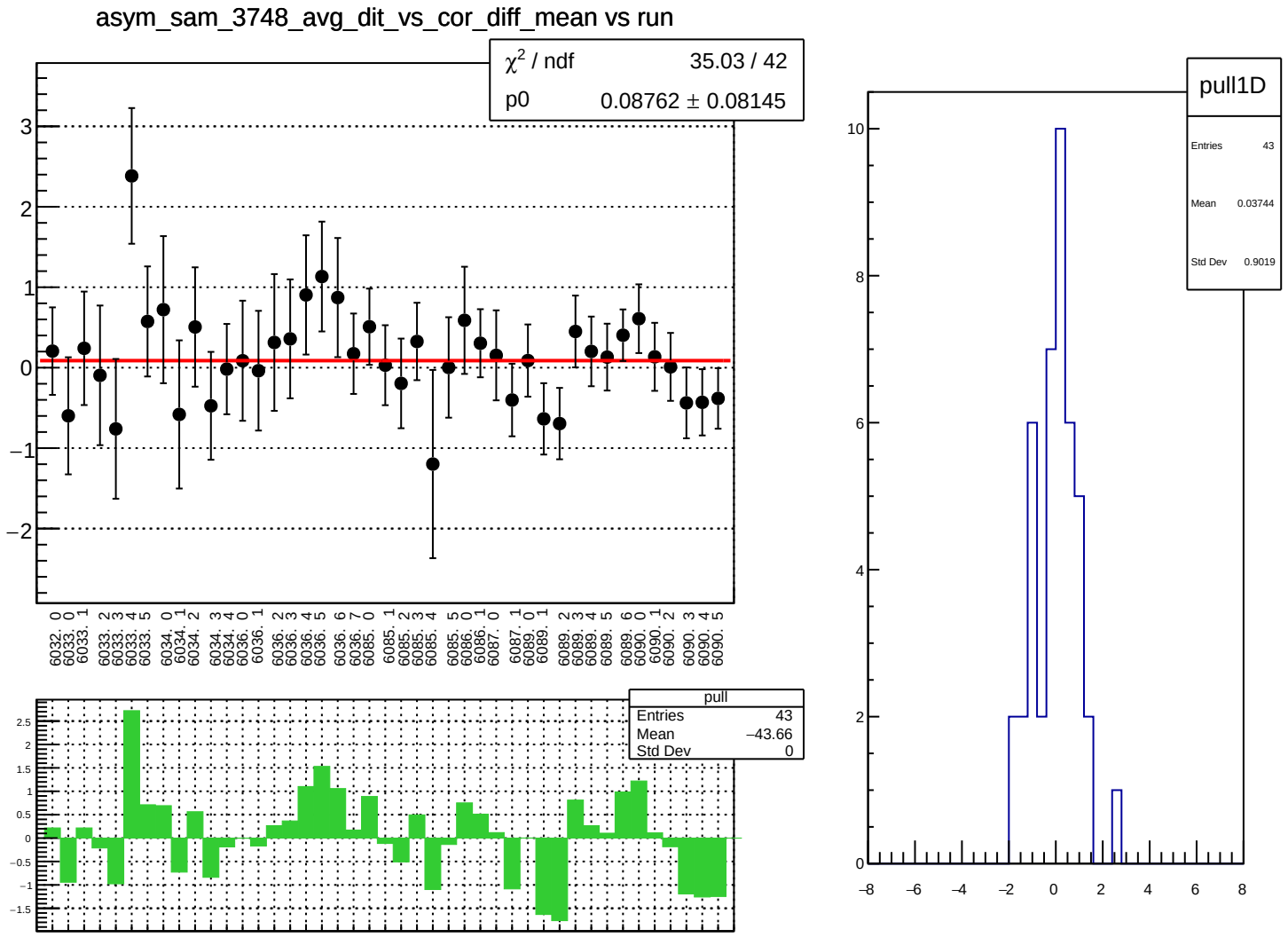

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.276e+04 / 42
p0 1317 ± 1.42
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

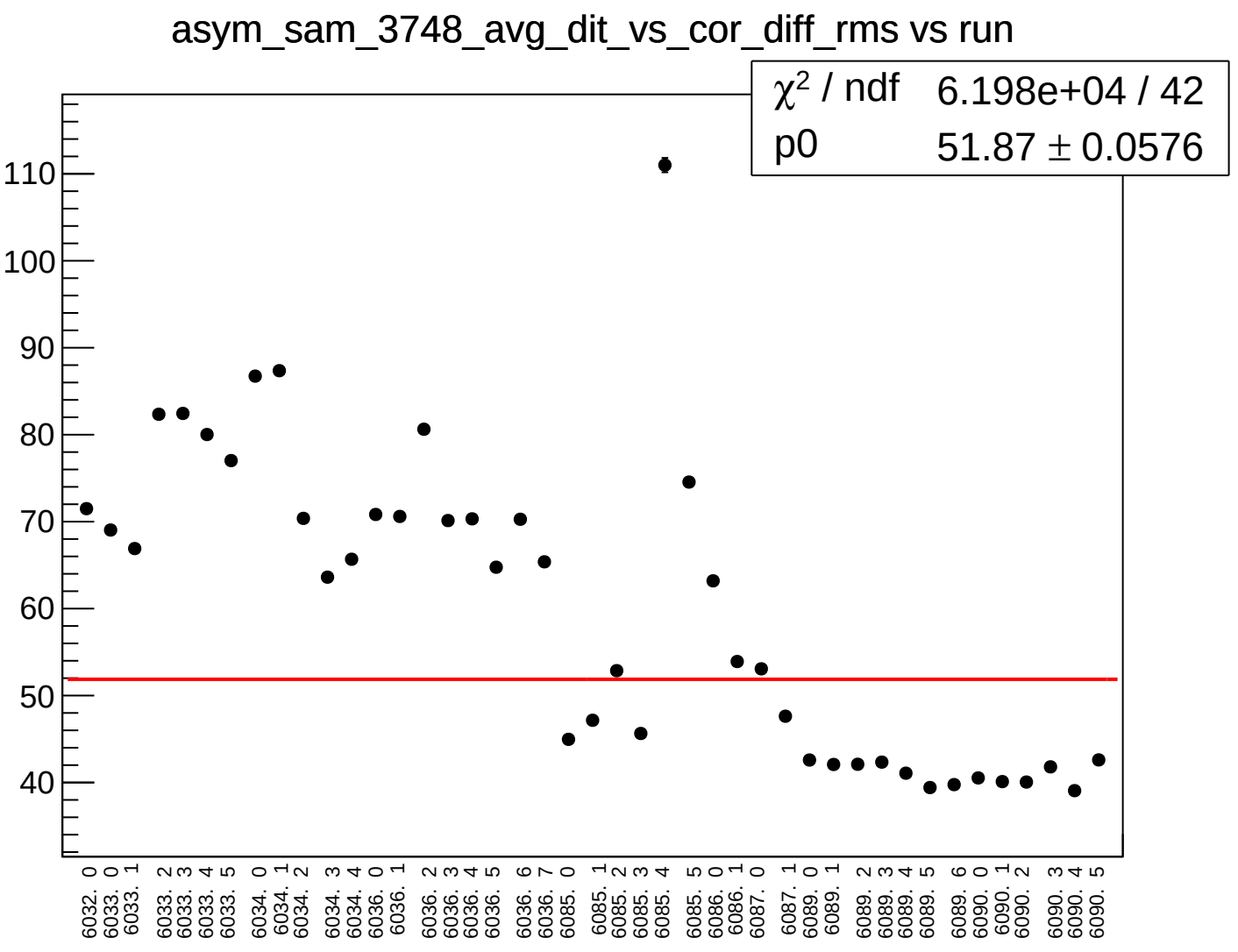

asym_sam_3748_avg_mean vs run
χ² / ndf 37.89 / 42
p0 1773 ± 2000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.525
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02479
Std Dev 0.9383
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

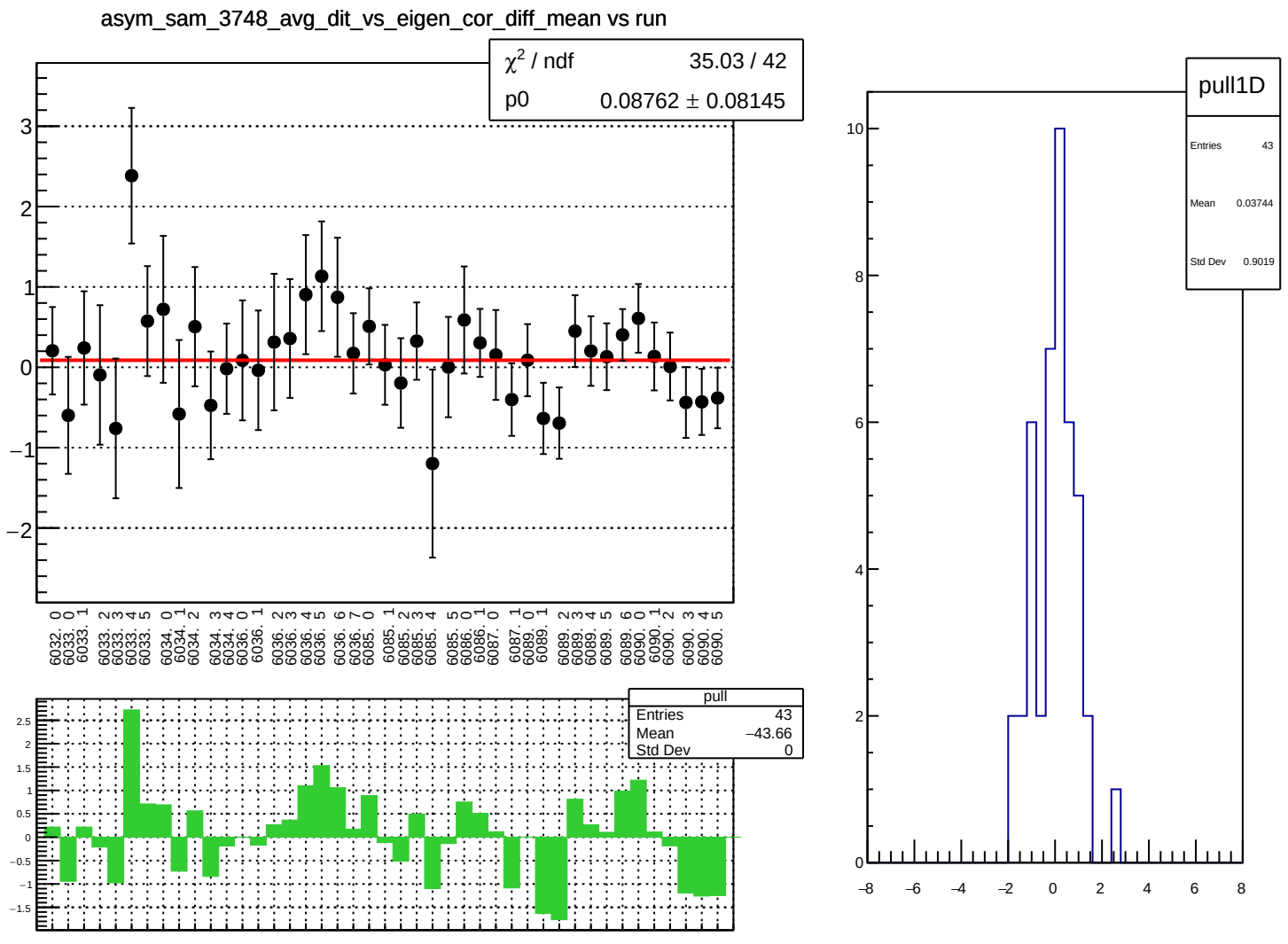

asym_sam_3748_avg_rms vs run
χ² / ndf 1.366e+04 / 42
p0 1311 ± 1.414
1800
1700
1600
1500
1400
1300
1200
1100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

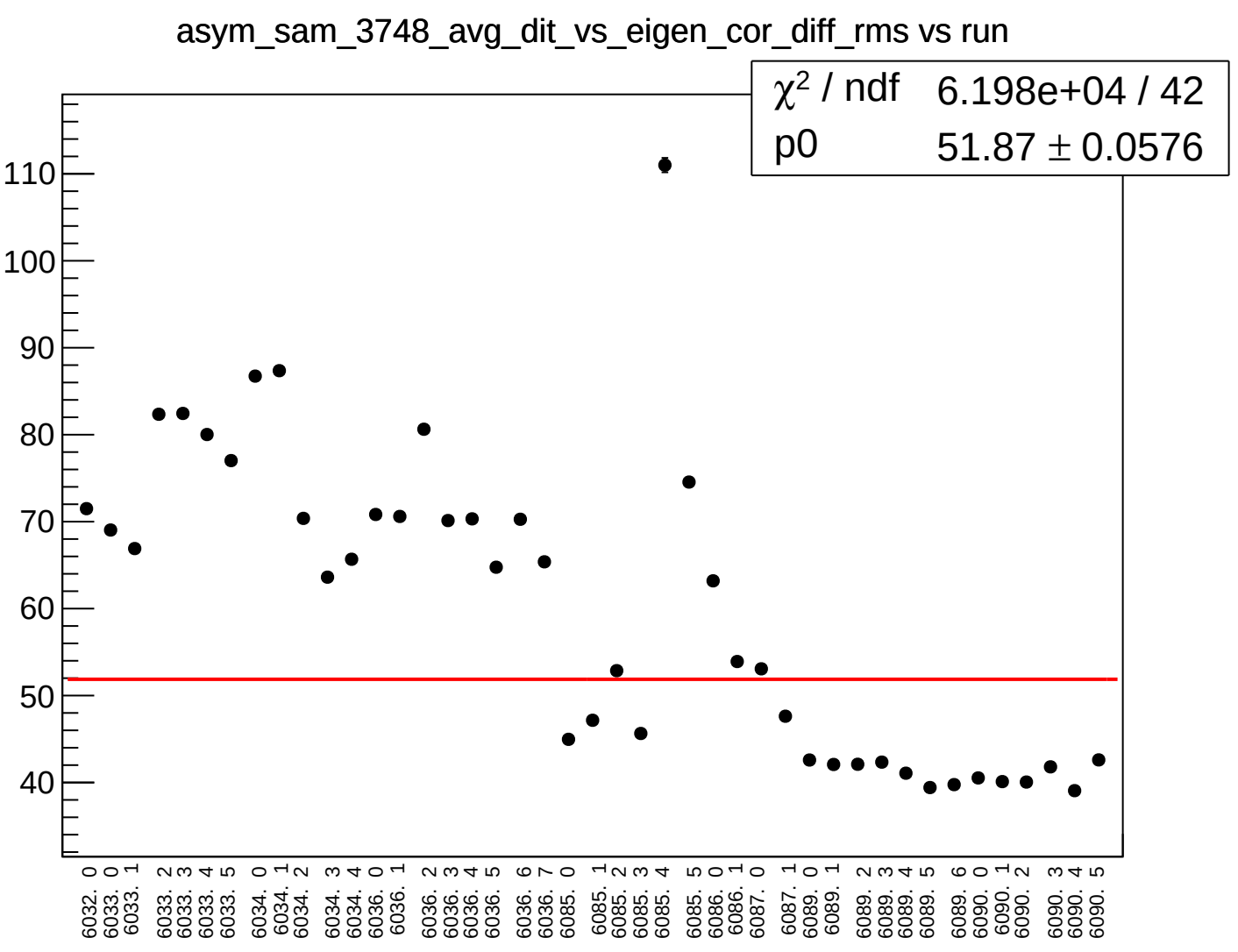

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 36.15 / 42
p0 9.73e−14 ± 1.307e−13
0.001
0.0005
0
−0.0005
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1004
Std Dev 0.9114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

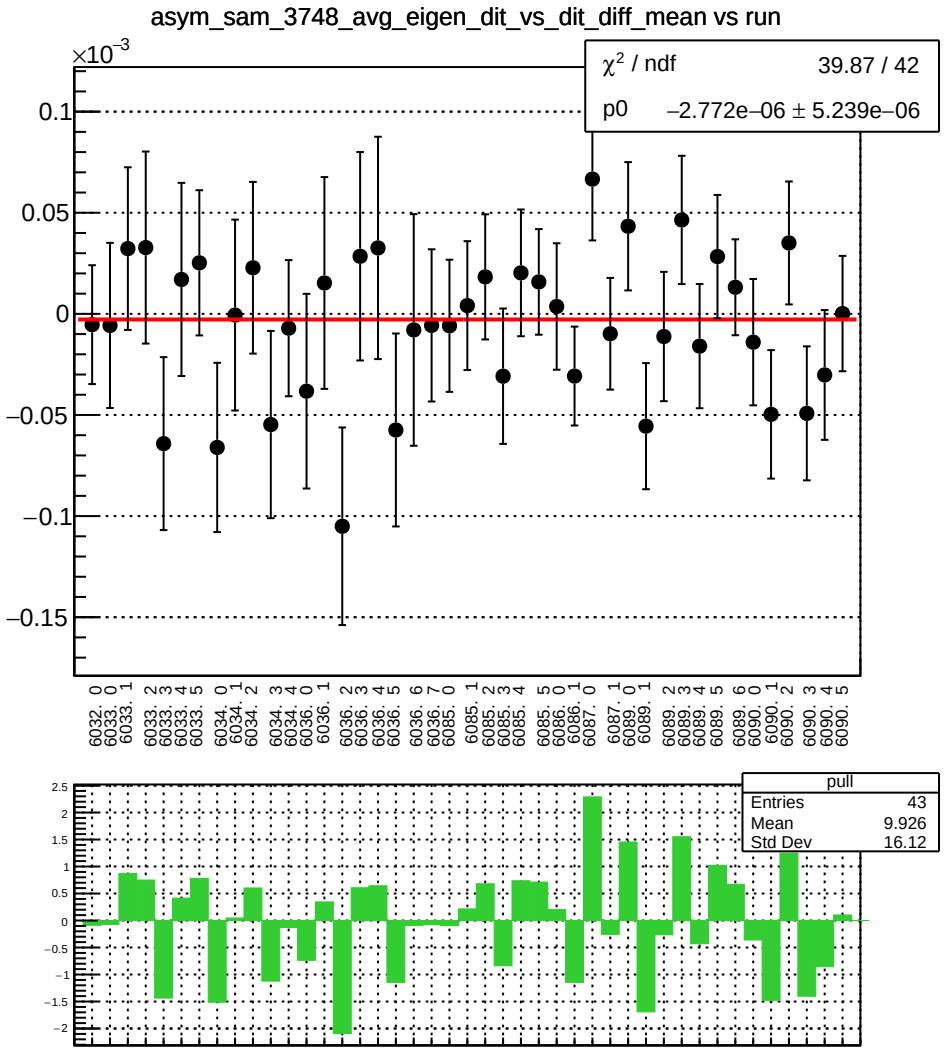

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.244e+05 / 42
p0 5.457e−11 ± 9.242e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

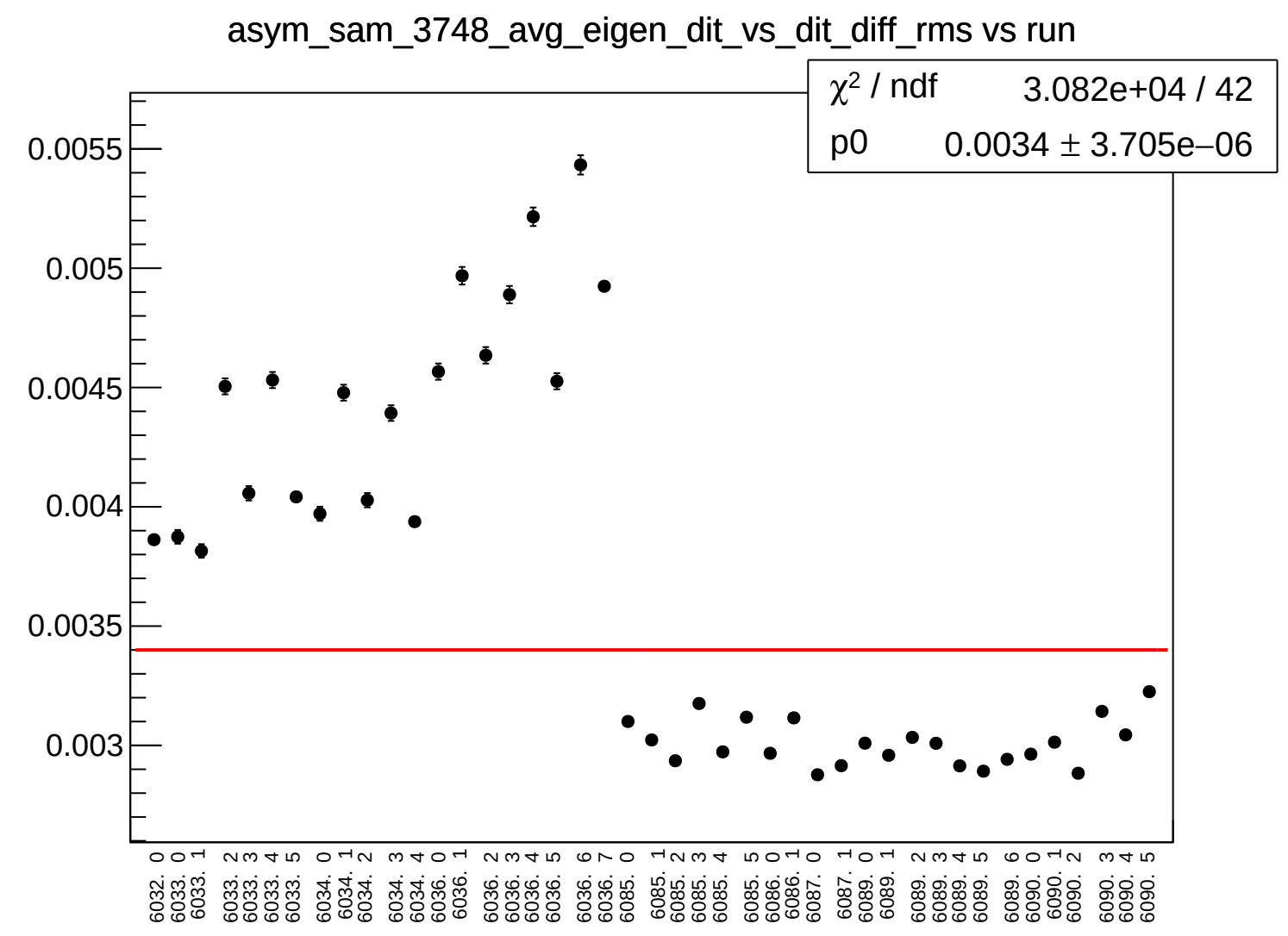

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.03 / 42
p0 0.08762 ± 0.08145
3
2
1
0
−1
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −43.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03744
Std Dev 0.9019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

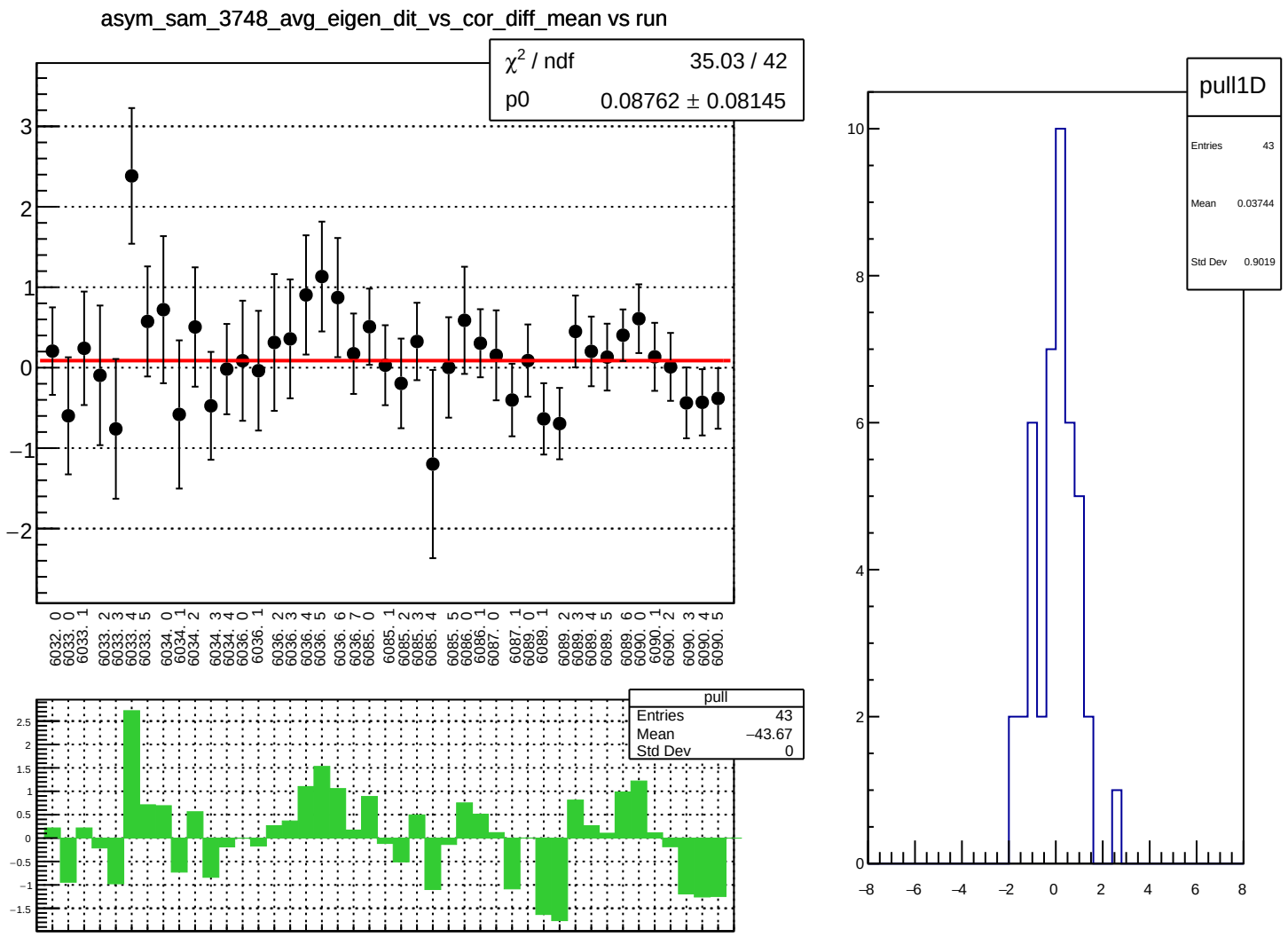

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.198e+04 / 42
p0 51.87 ± 0.0576
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

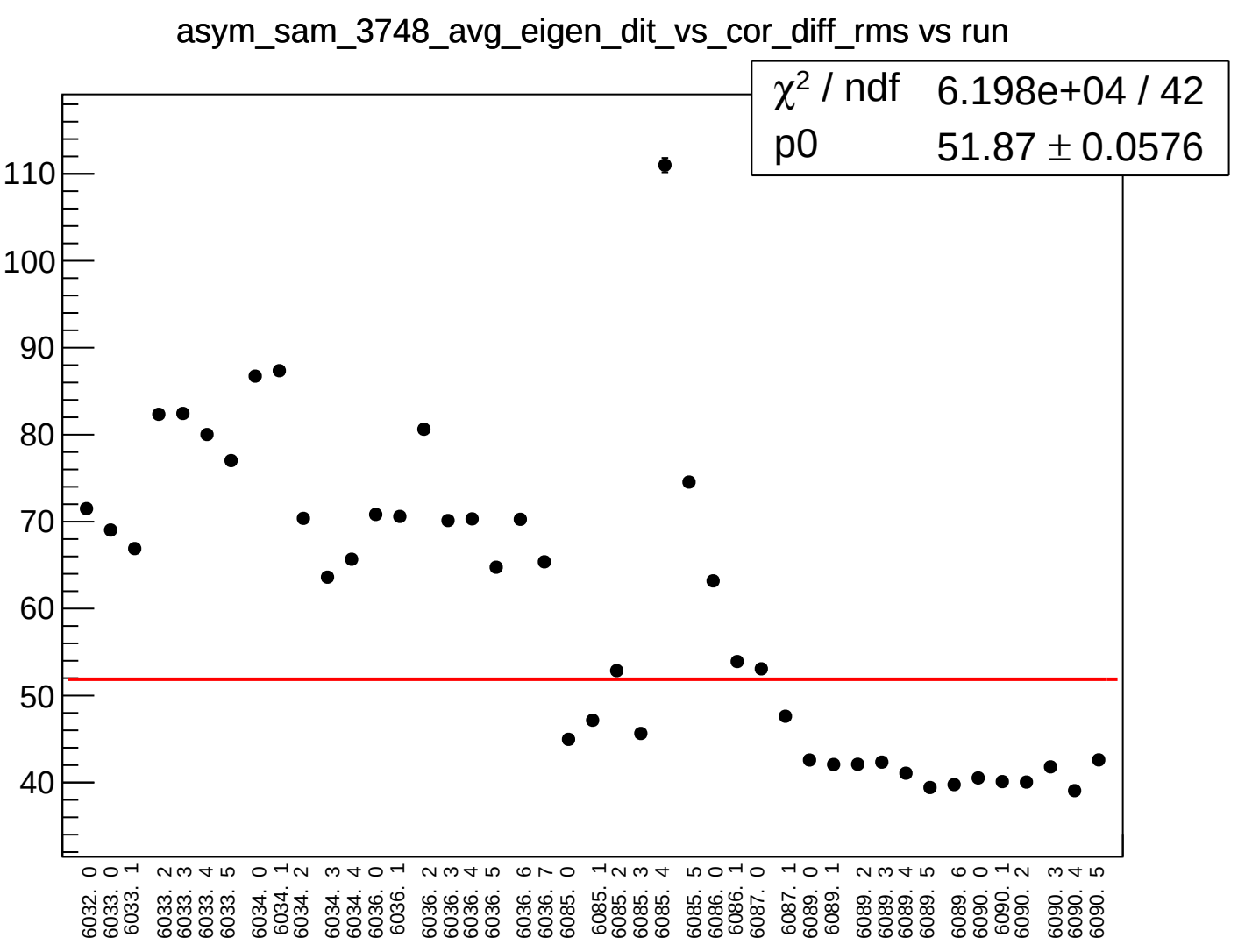

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.03 / 42
p0 0.08762 ± 0.08145
3
2
1
0
−1
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −43.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03744
Std Dev 0.9019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

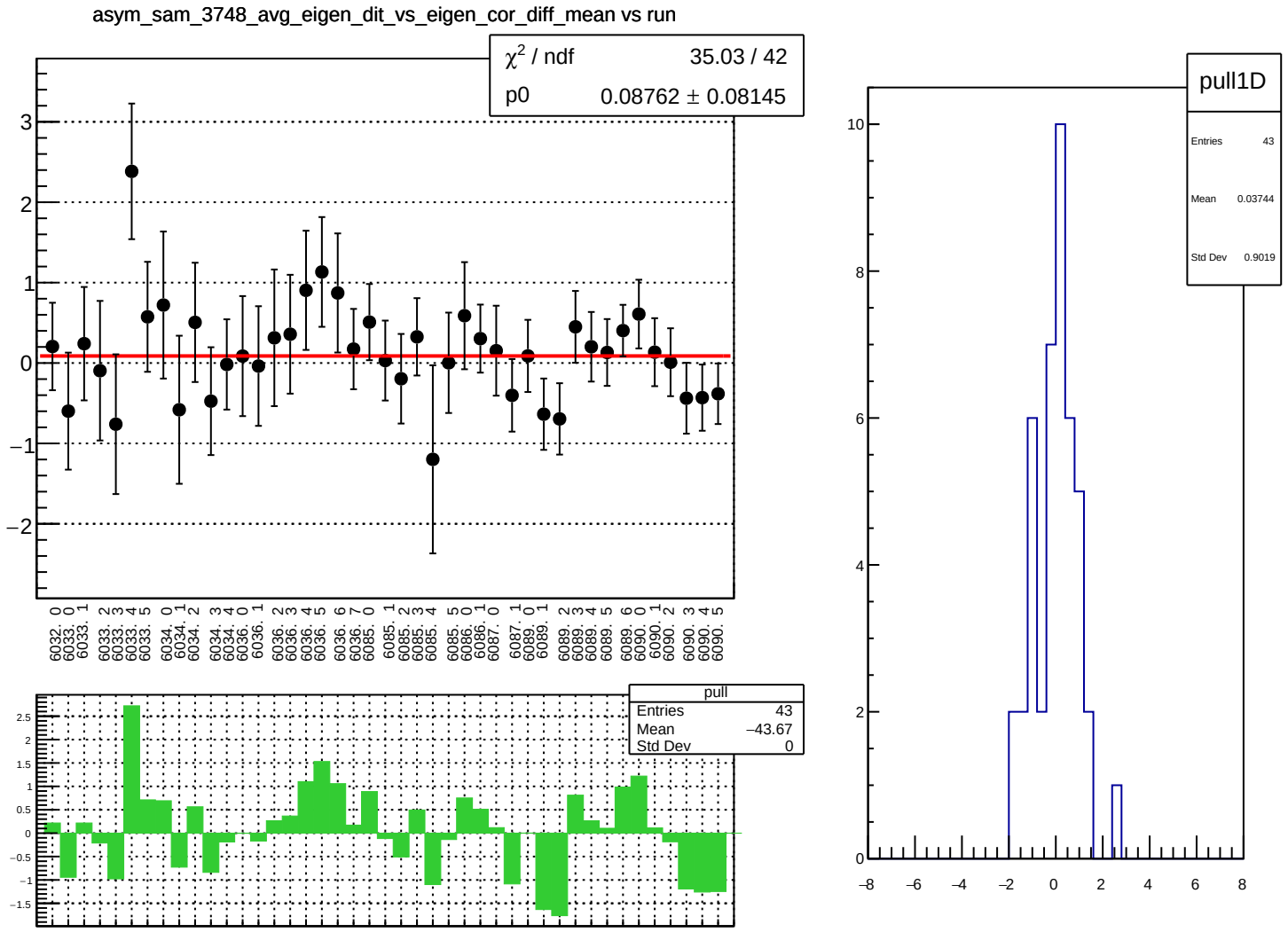

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.198e+04 / 42
p0 51.87 ± 0.0576
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

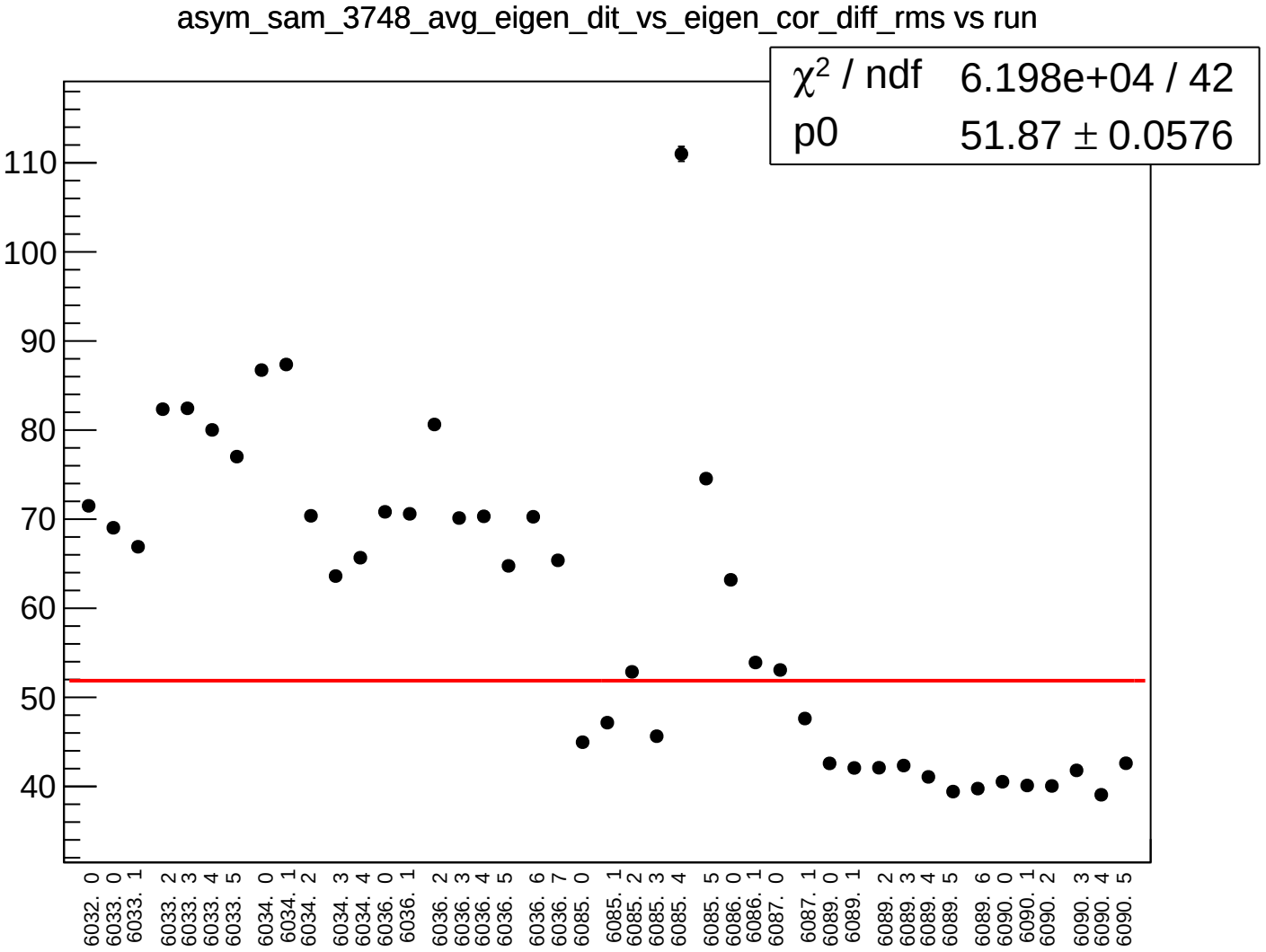

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.87 / 42
p0 −2.772e−06 ± 5.239e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.926
Std Dev 16.12
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03188
Std Dev 0.9624
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

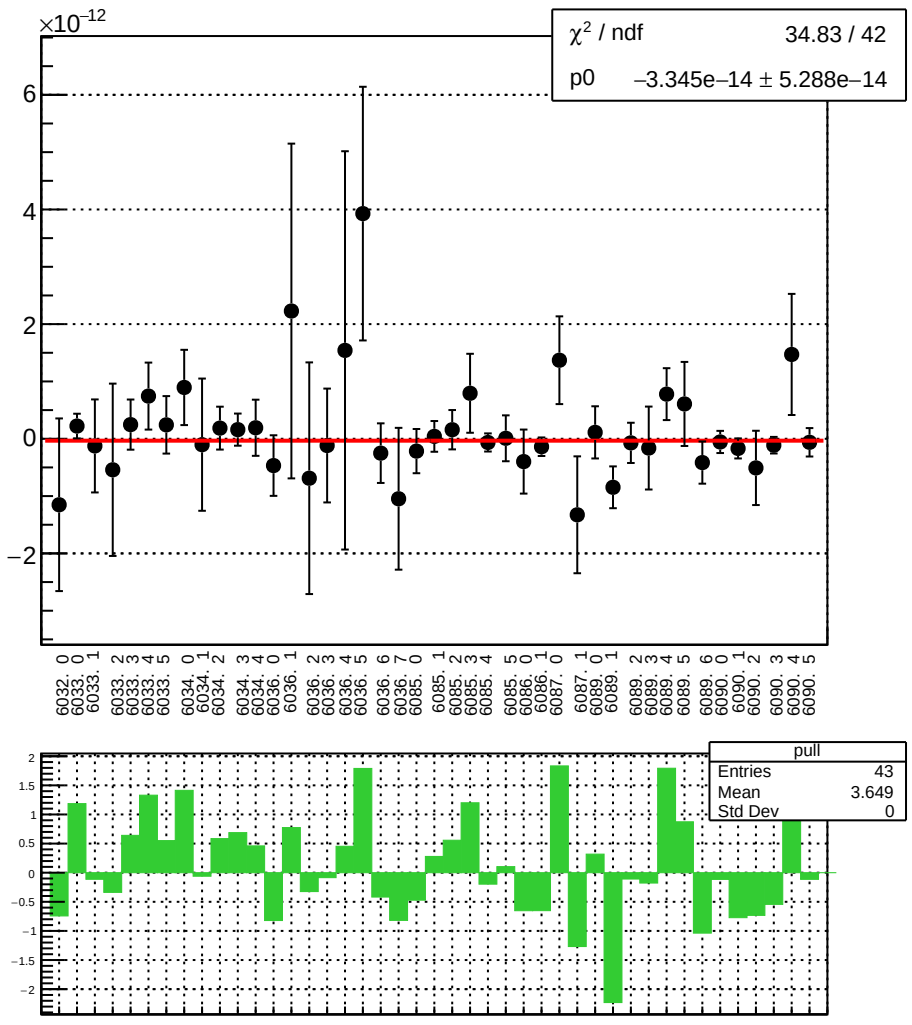

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.082e+04 / 42
p0 0.0034 ± 3.705e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

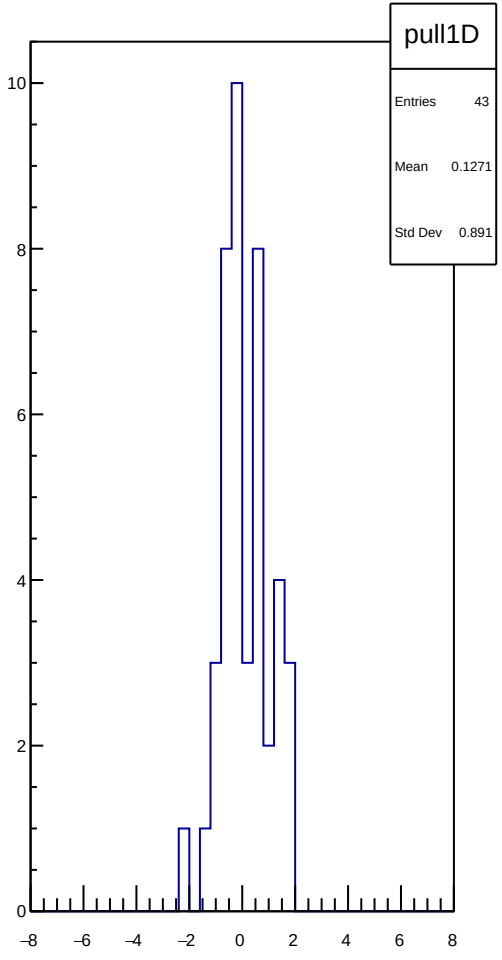

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.03 / 42
p0 0.08762 ± 0.08145
pull
Entries 43
Mean −43.67
Std Dev 0
pull1D
Entries 43
Mean 0.03744
Std Dev 0.9019

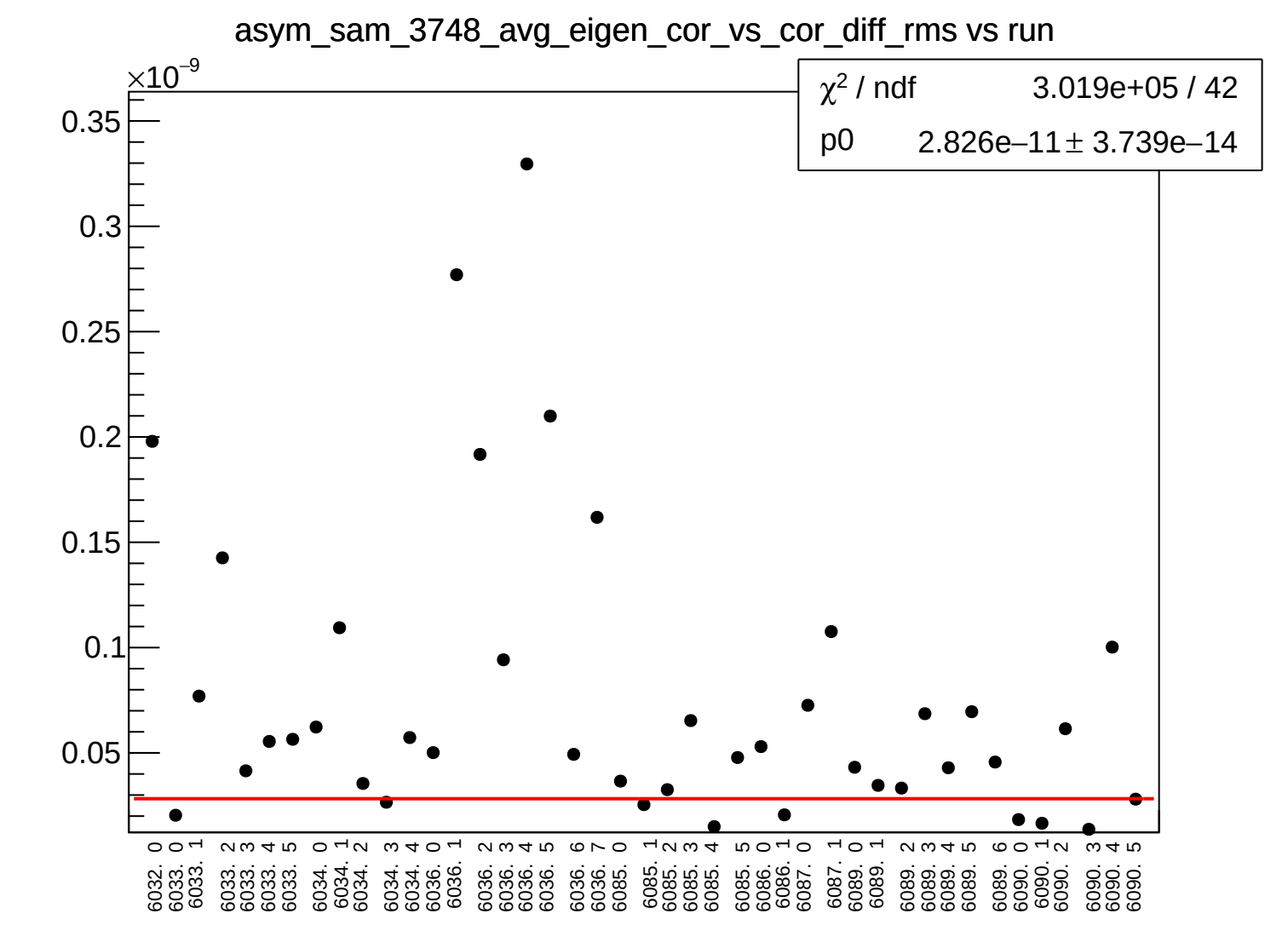

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.198e+04 / 42
p0 51.87 ± 0.0576
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

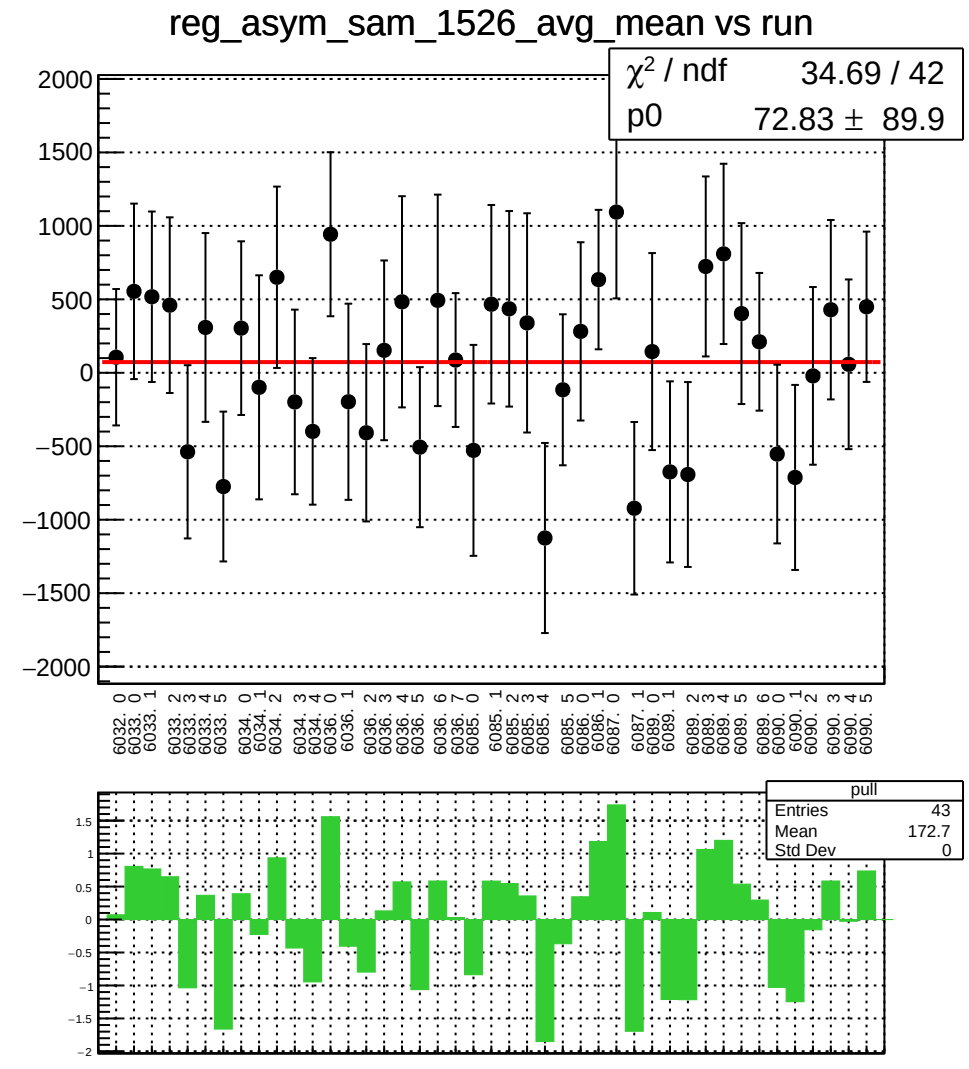

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.03 / 42
p0 0.08762 ± 0.08145
3
2
1
0
−1
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −43.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03744
Std Dev 0.9019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

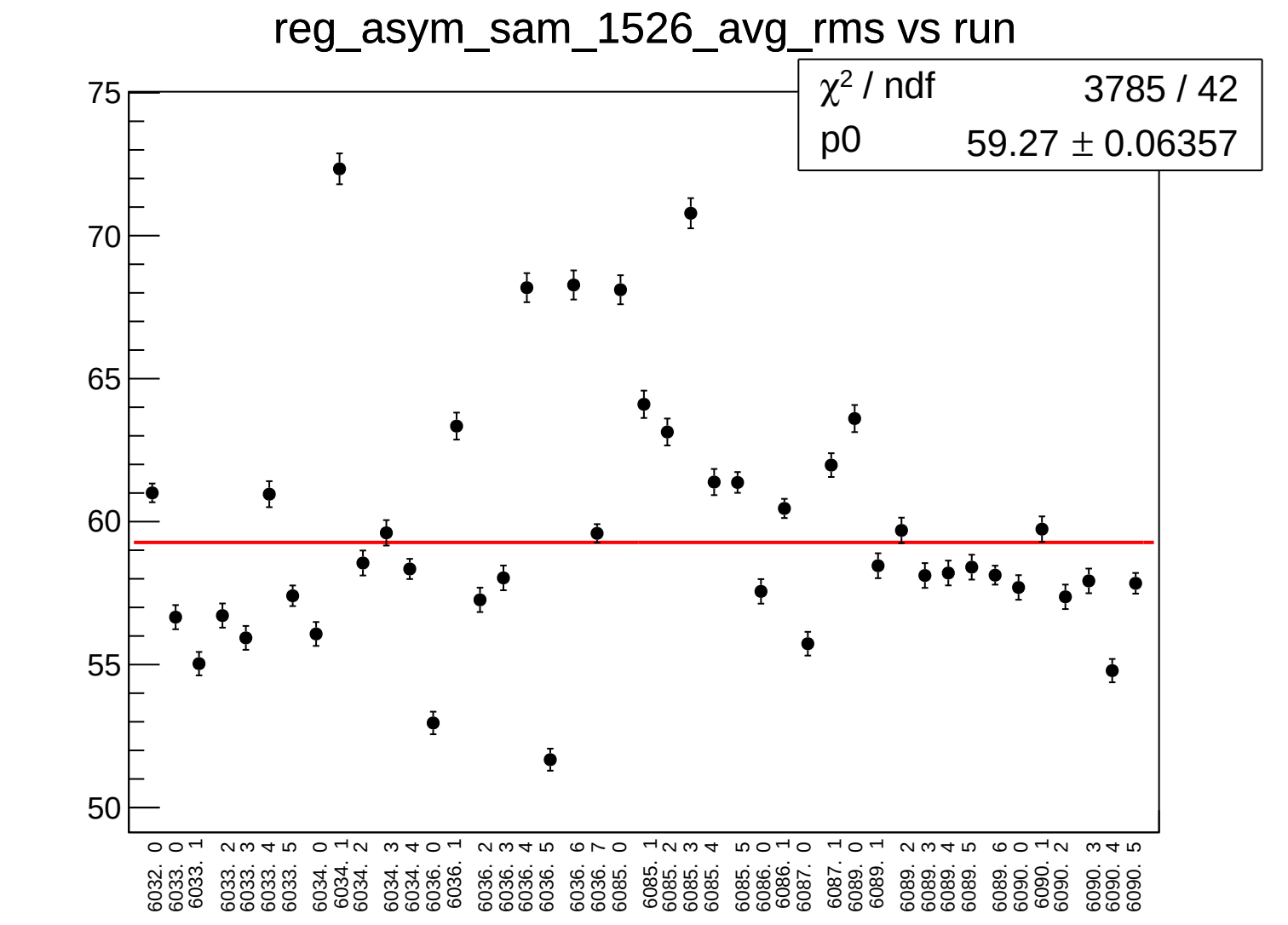

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.198e+04 / 42
p0 51.87 ± 0.0576
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

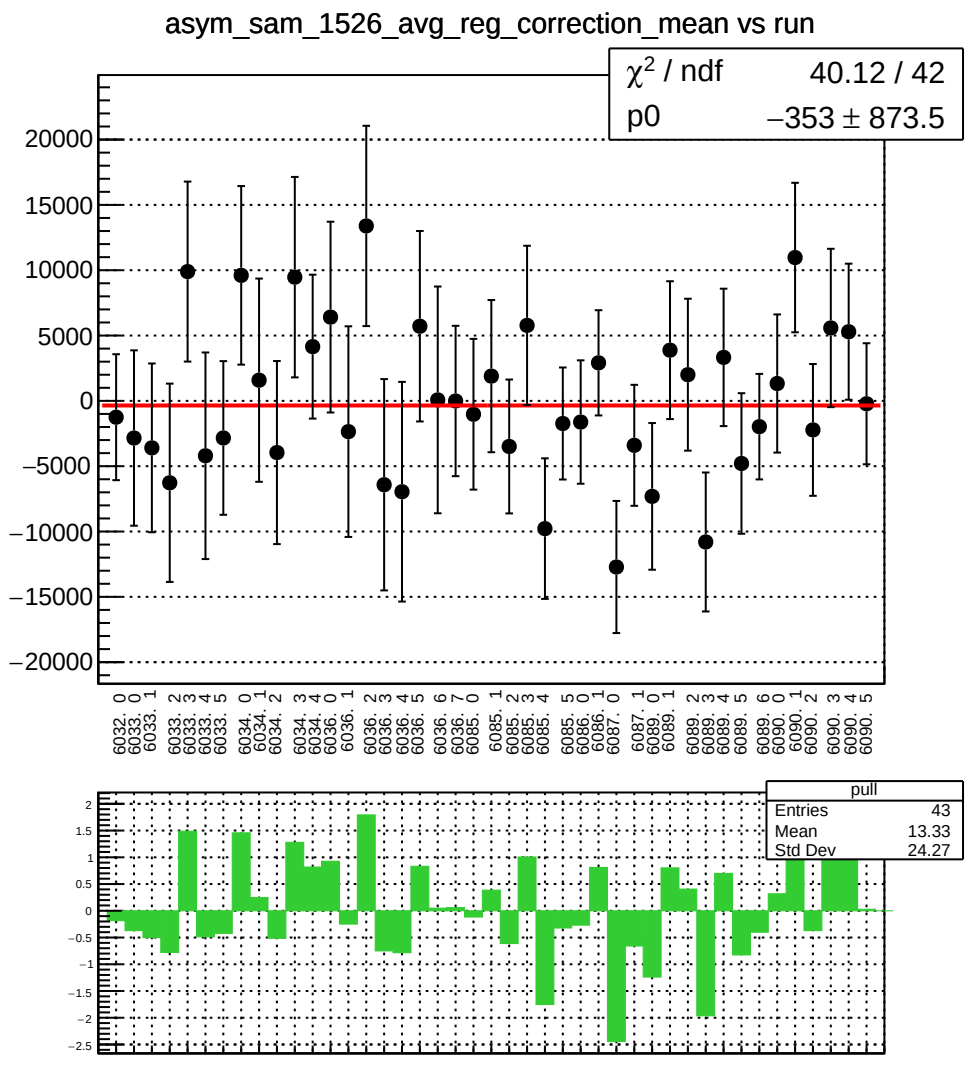

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.83 / 42
p0 −3.345e−14 ± 5.288e−14
6
4
2
0
−2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.649
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

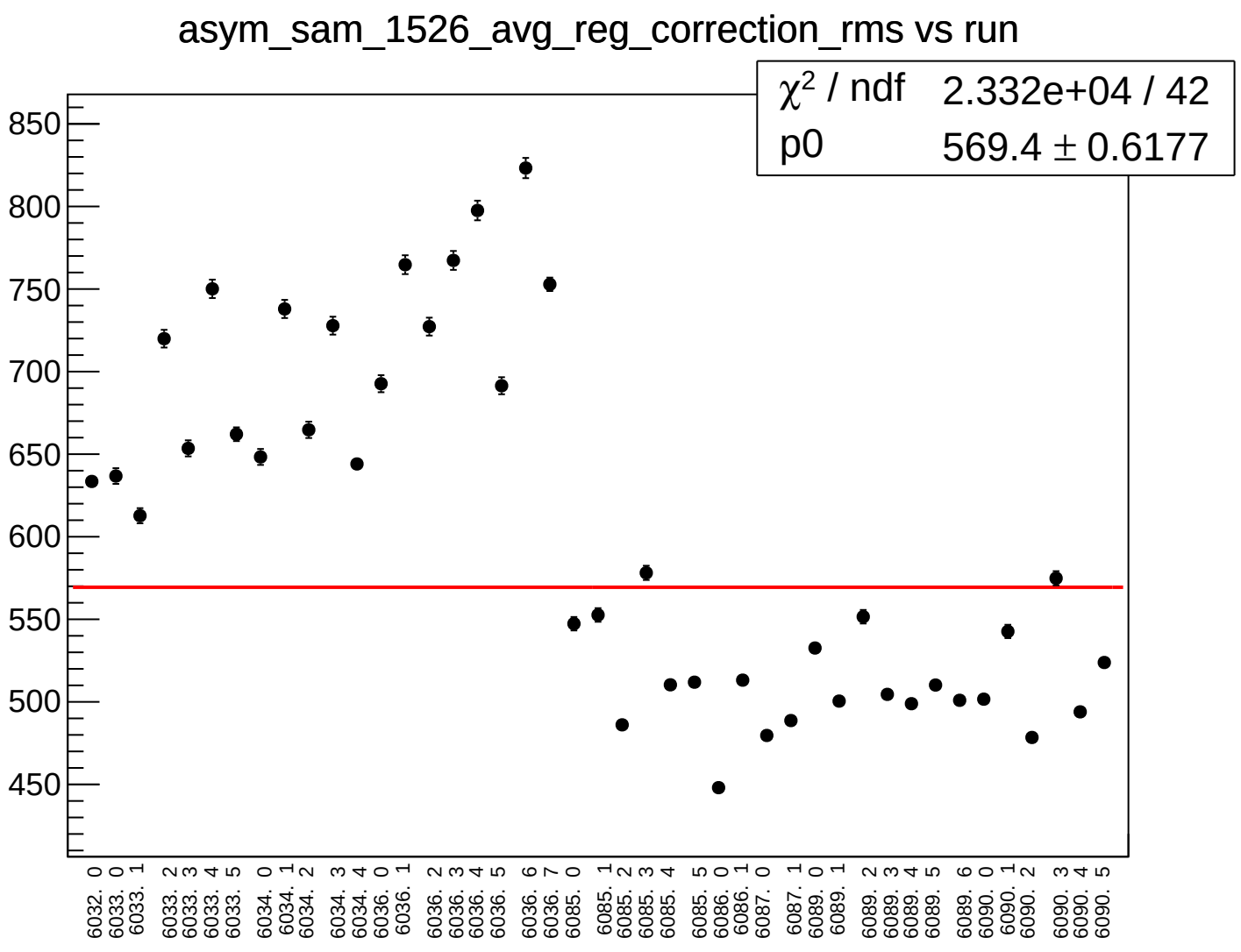

pull1D
Entries 43
Mean 0.1271
Std Dev 0.891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

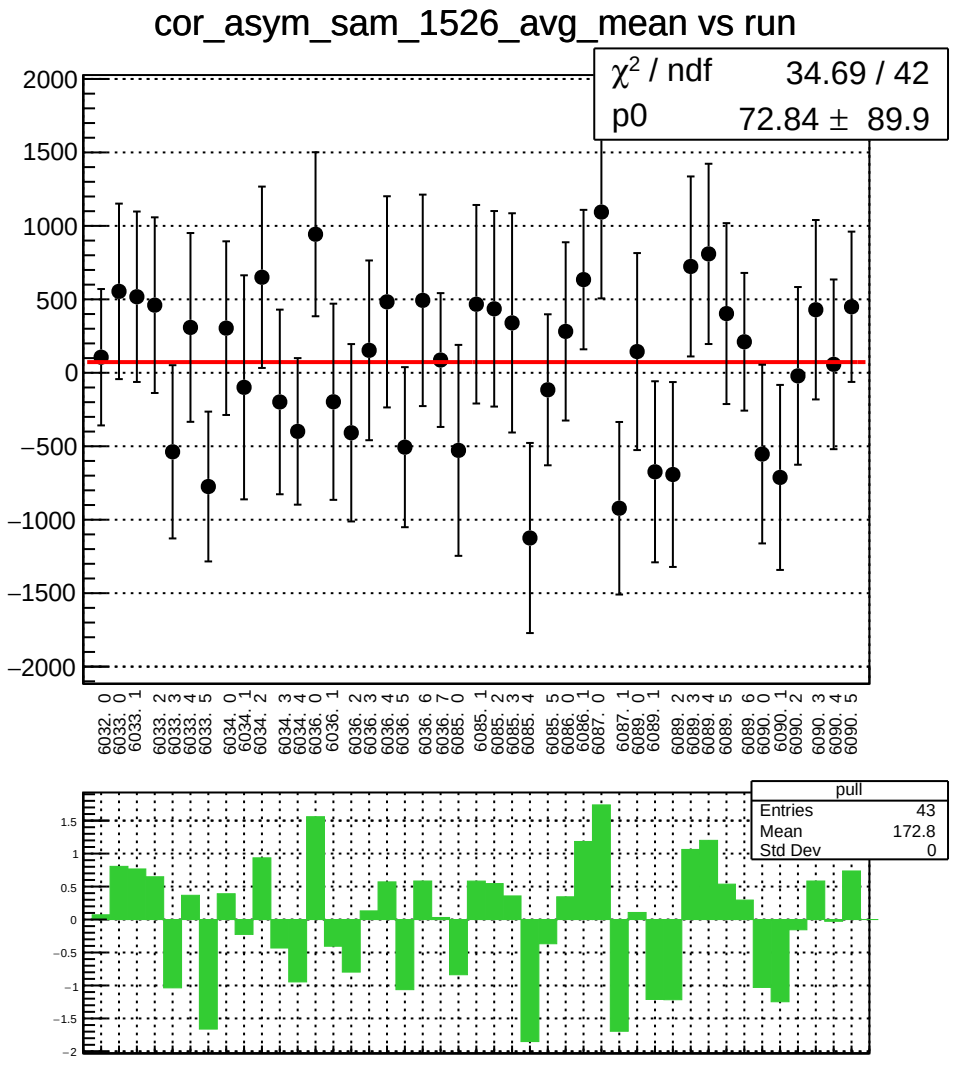

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.019e+05 / 42
p0 2.826e−11 ± 3.739e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

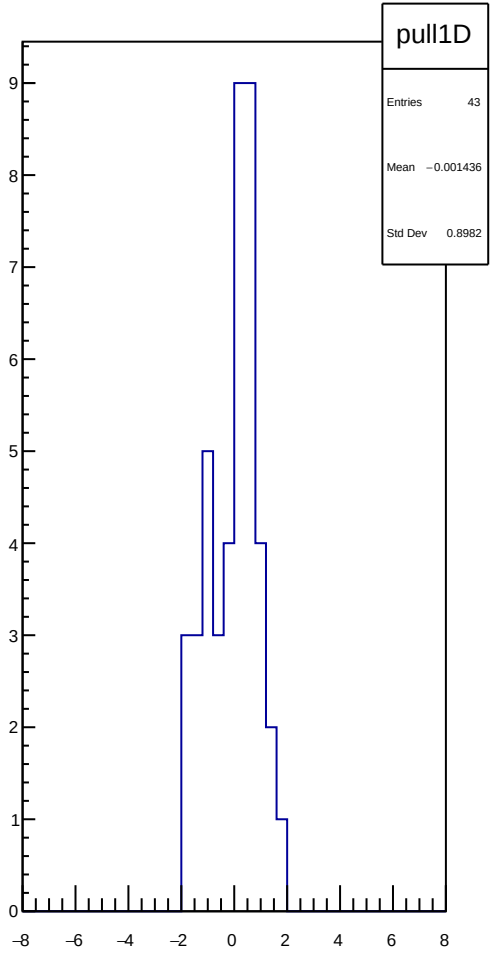

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 34.69 / 42
p0 72.83 ± 89.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 172.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001436
Std Dev 0.8982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

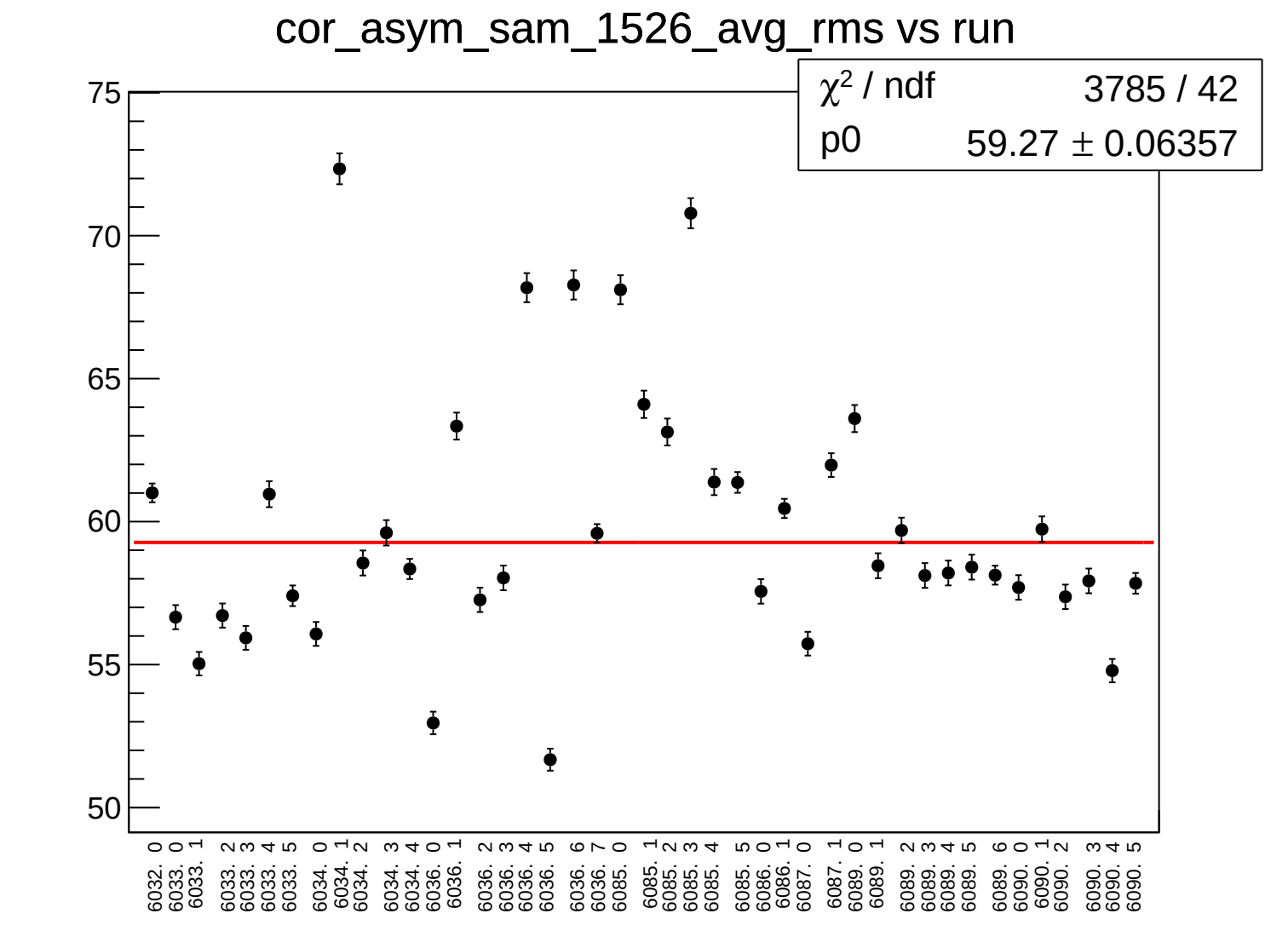

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 3785 / 42
p0 59.27 ± 0.06357
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

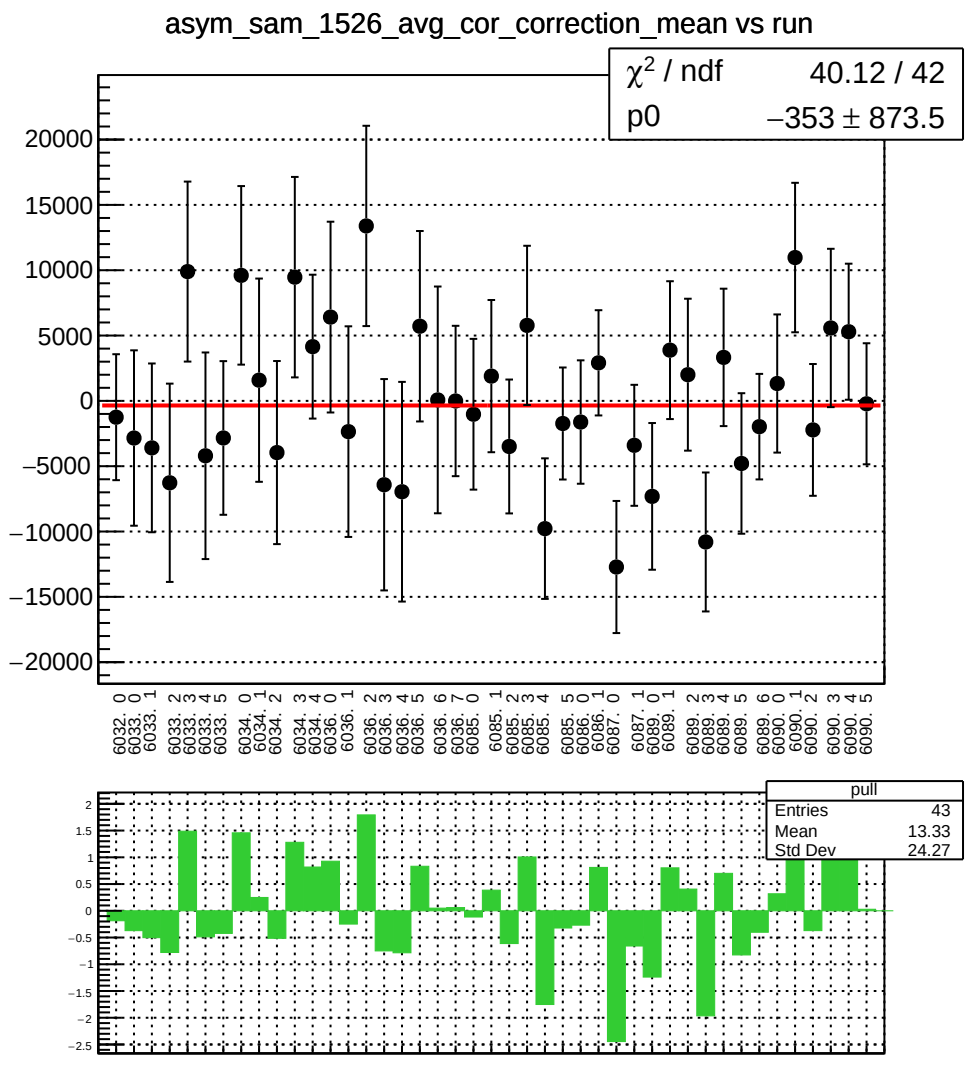

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 40.12 / 42
p0 −353 ± 873.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.33
Std Dev 24.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03331
Std Dev 0.9654
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

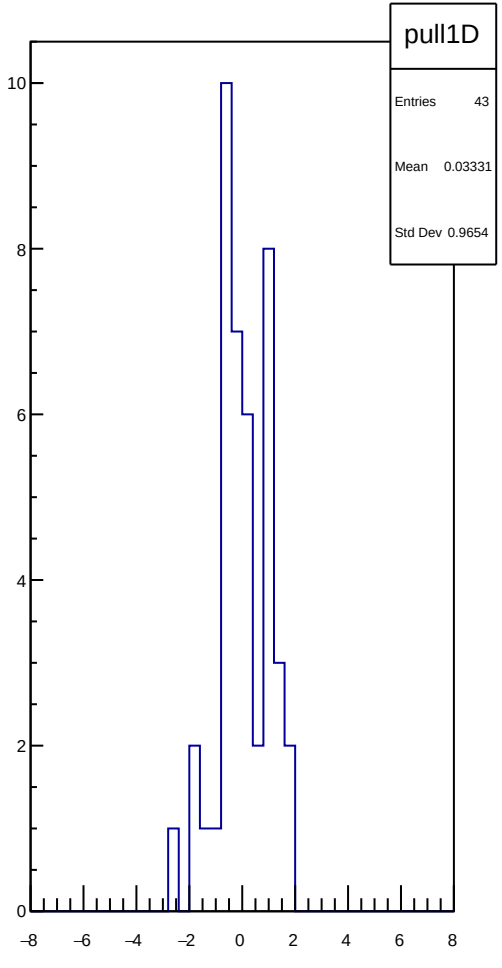

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2.332e+04 / 42
p0 569.4 ± 0.6177
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

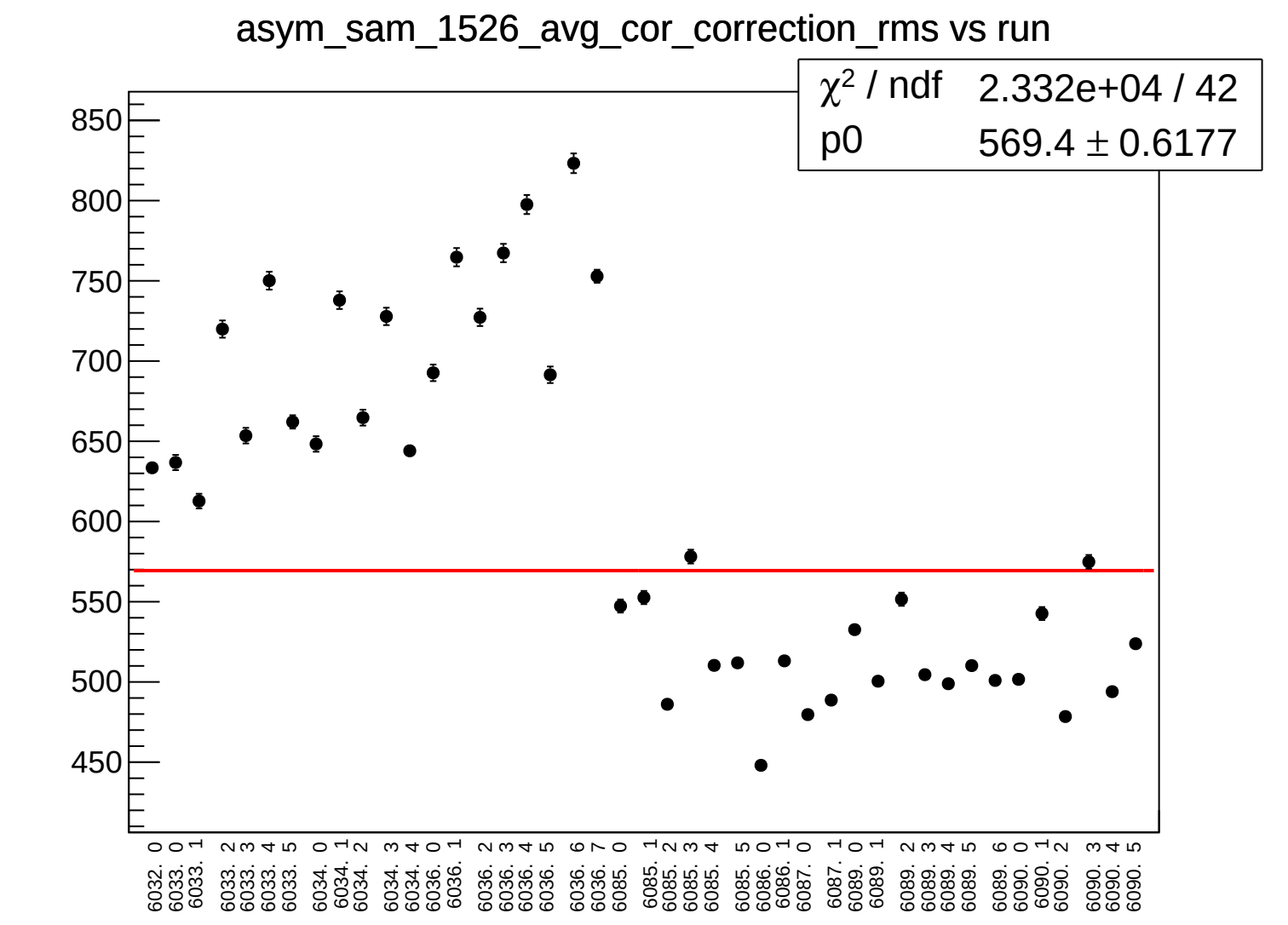

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 34.69 / 42
p0 72.84 ± 89.9
pull
Entries 43
Mean 172.8
Std Dev 0

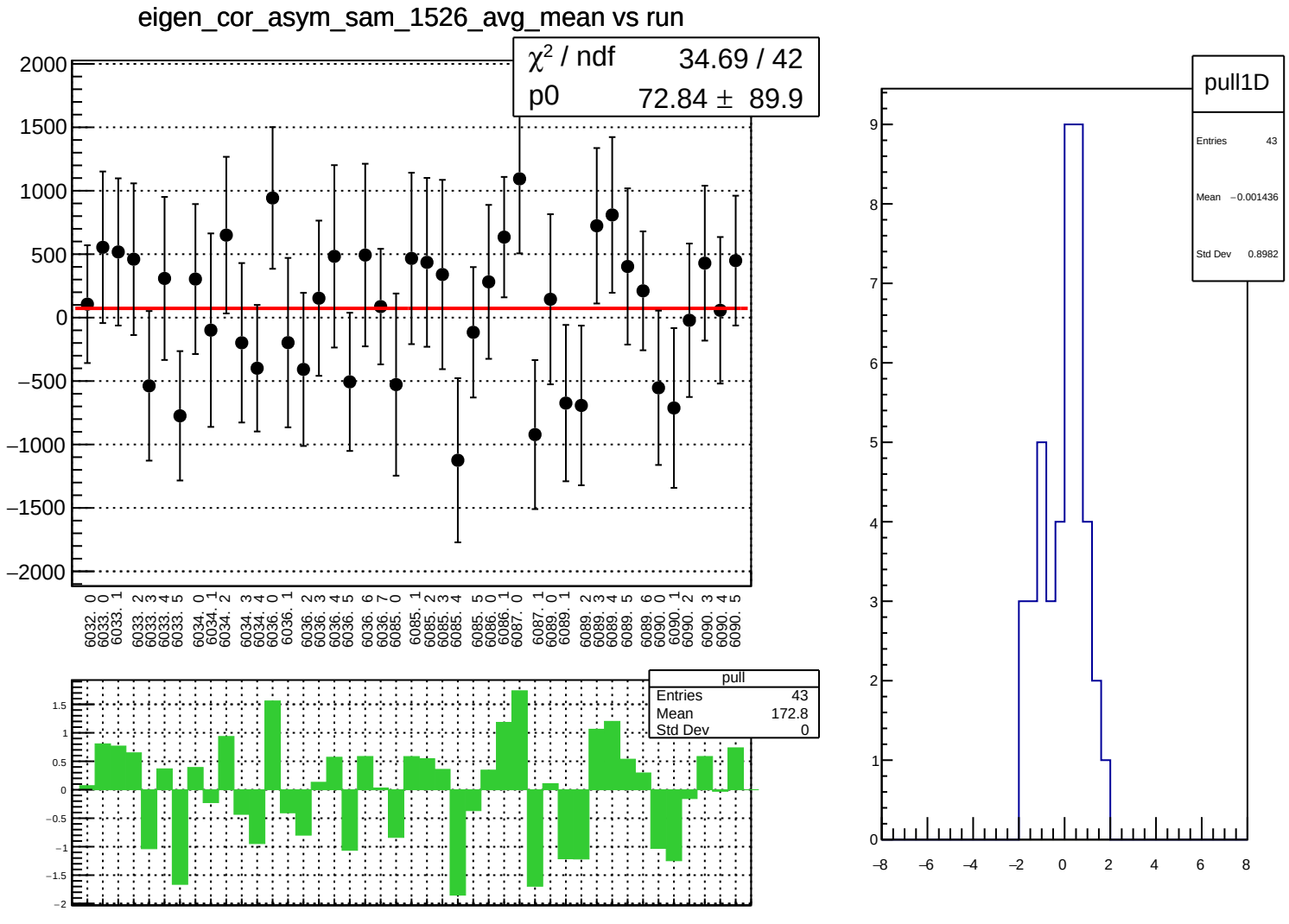

pull1D
Entries 43
Mean −0.001436
Std Dev 0.8982

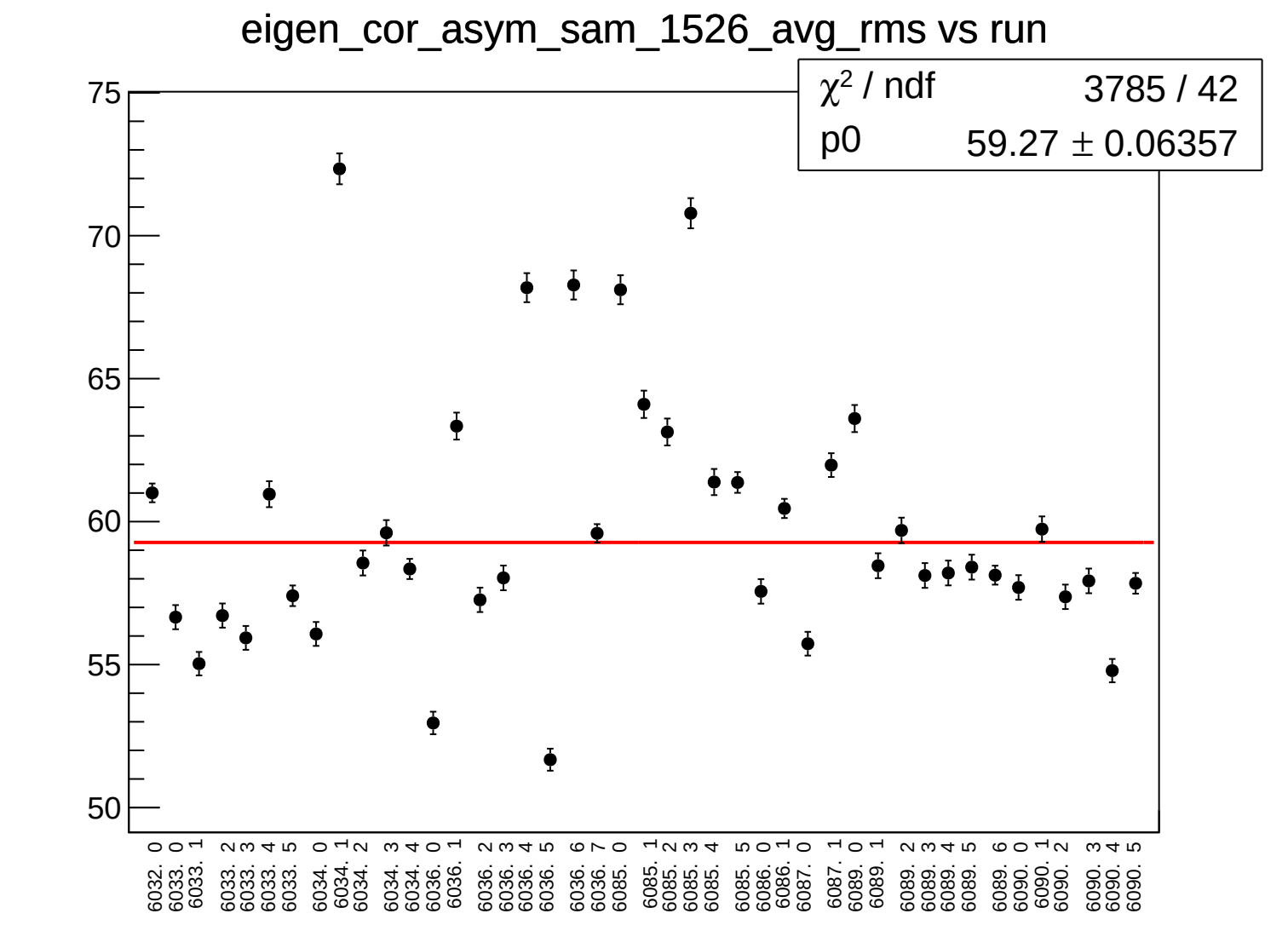

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3785 / 42
p0 59.27 ± 0.06357
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

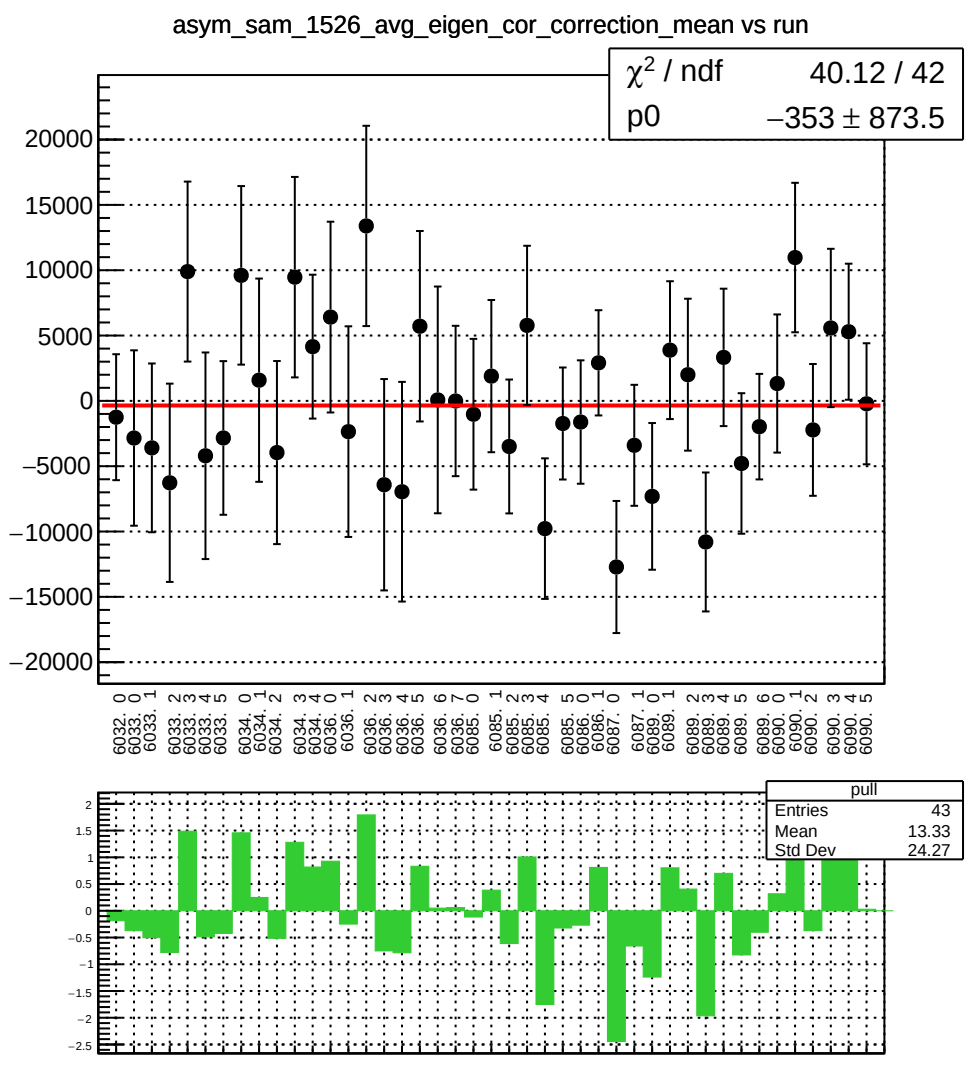

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 40.12 / 42
p0 −353 ± 873.5
pull
Entries 43
Mean 13.33
Std Dev 24.27

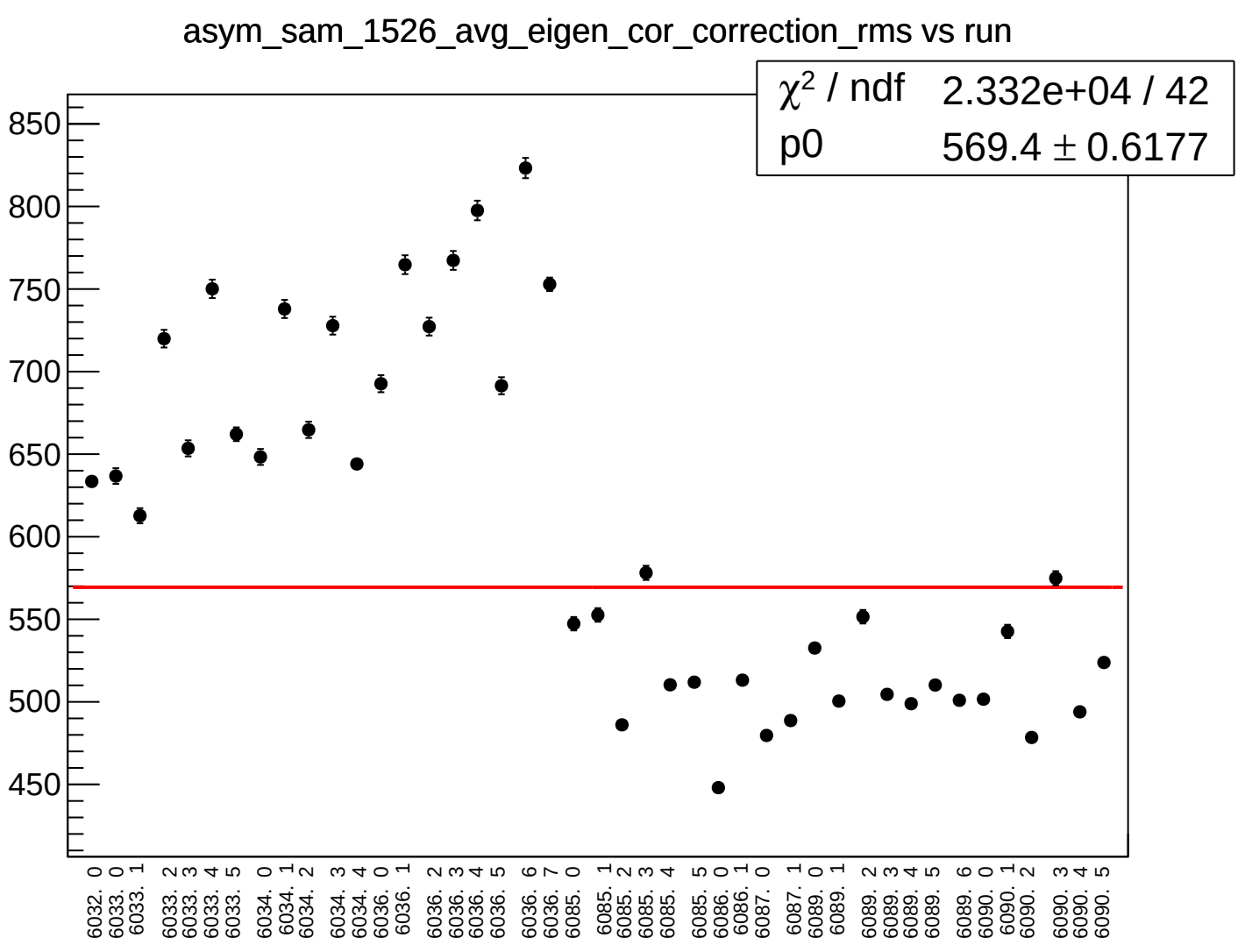

pull1D
Entries 43
Mean 0.03331
Std Dev 0.9654

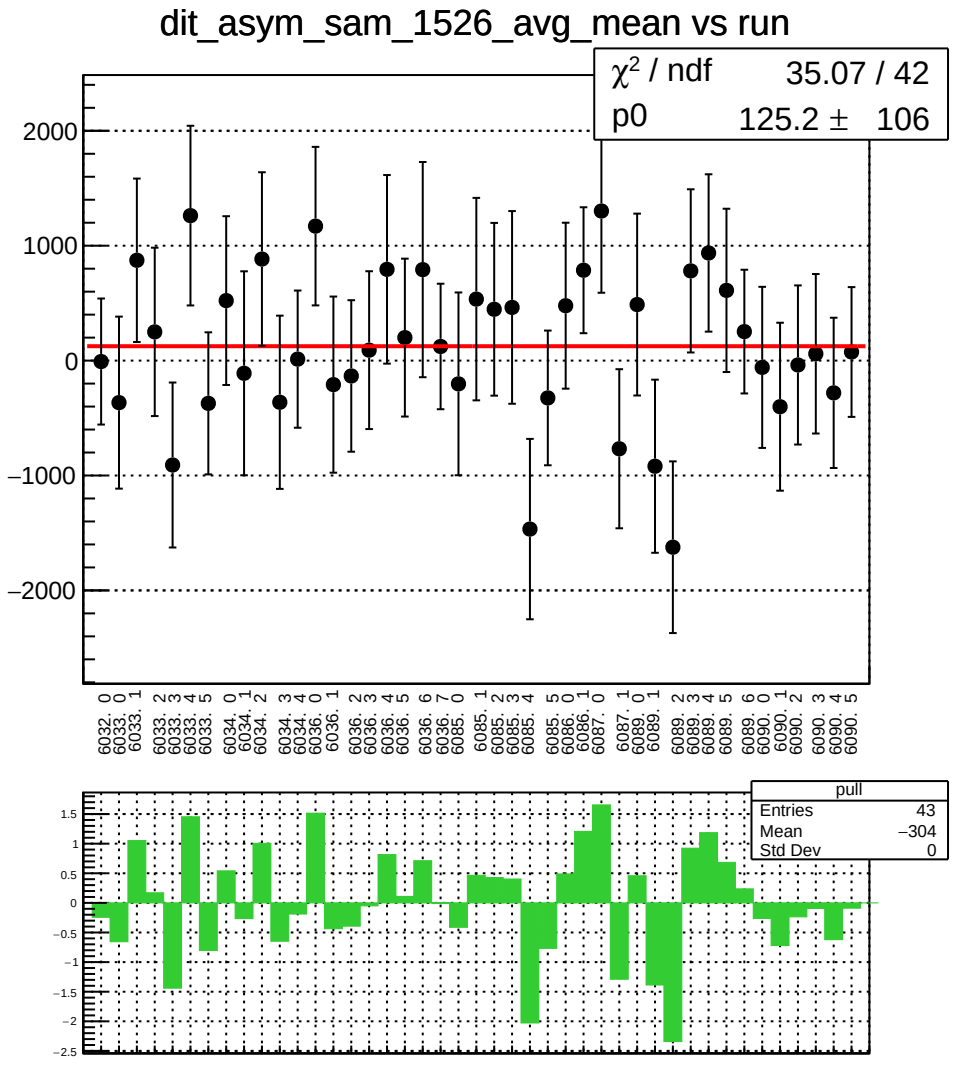

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2.332e+04 / 42
p0 569.4 ± 0.6177
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

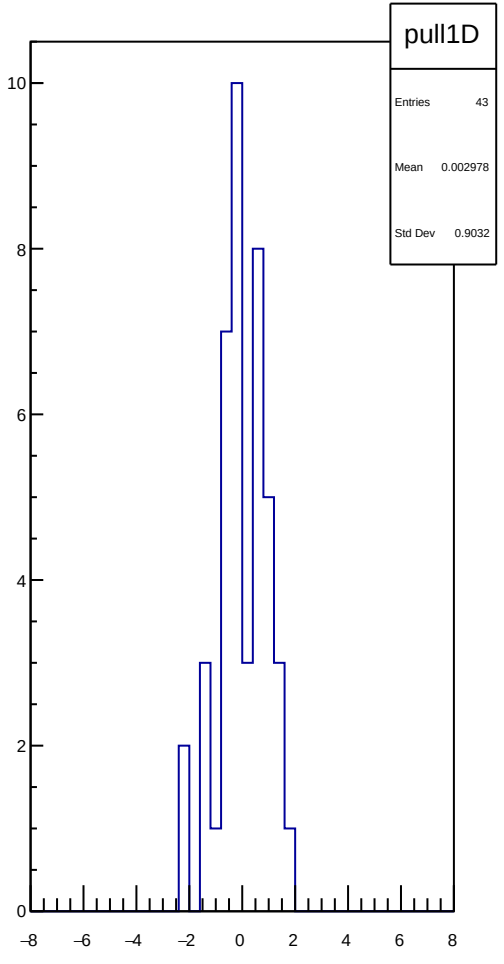

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 34.69 / 42
p0 72.84 ± 89.9
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 172.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001436
Std Dev 0.8982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

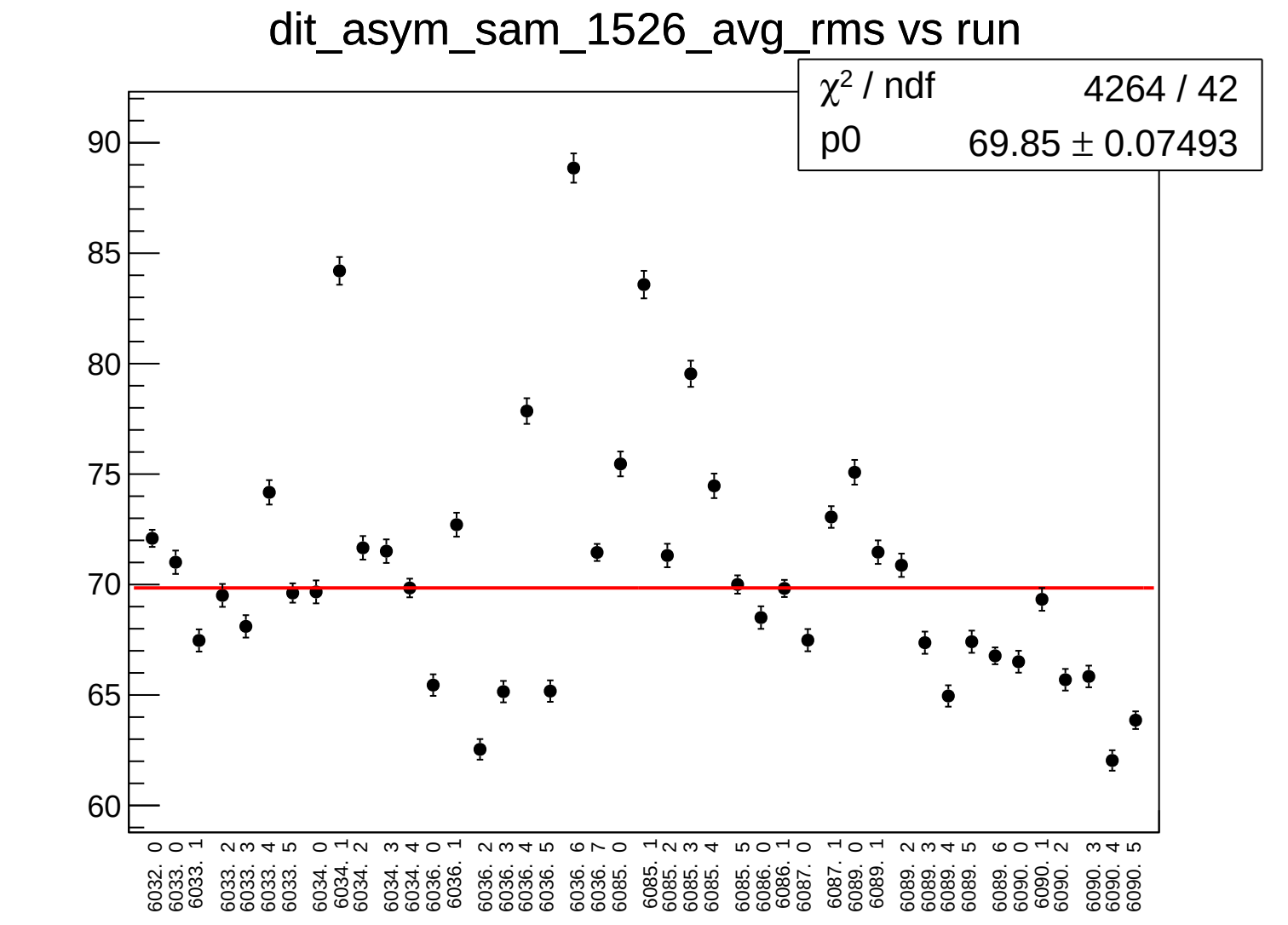

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 3785 / 42
p0 59.27 ± 0.06357
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

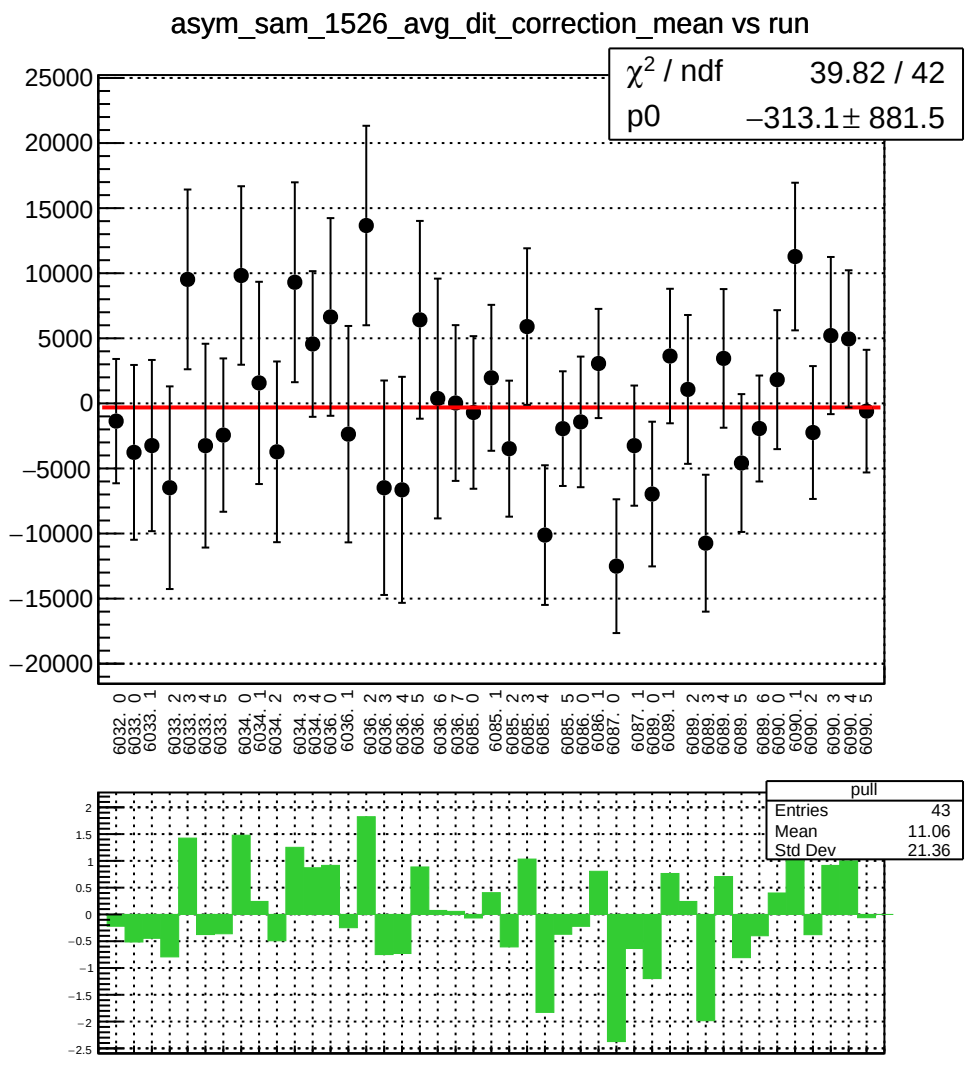

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.12 / 42
p0 −353 ± 873.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.33
Std Dev 24.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03331
Std Dev 0.9654
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

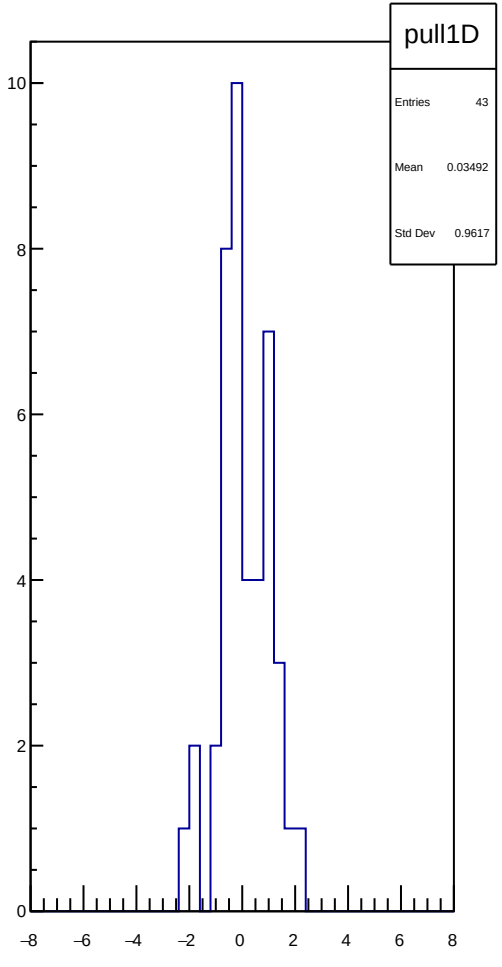

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.332e+04 / 42
p0 569.4 ± 0.6177
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

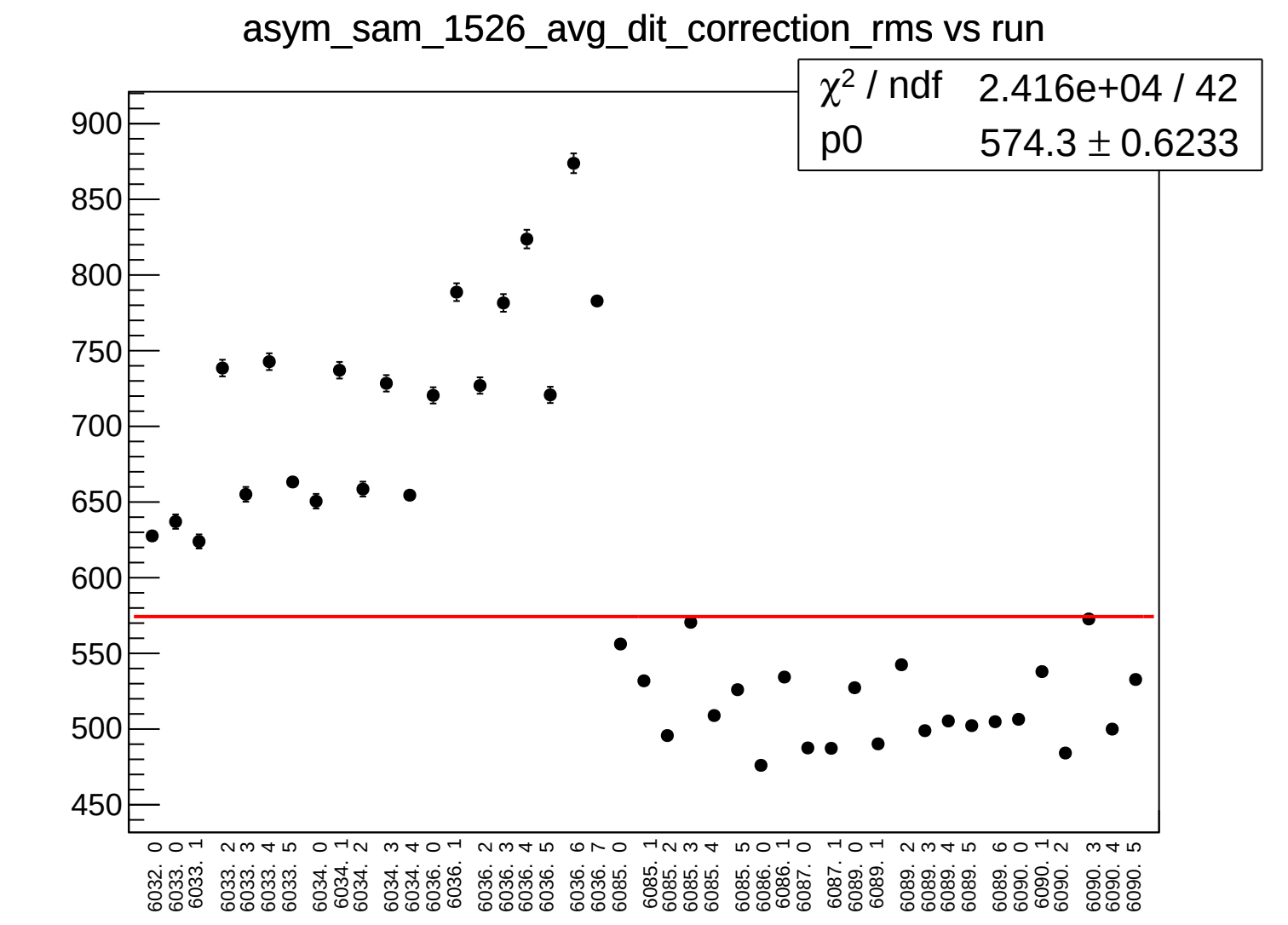

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 35.07 / 42
p0 125.2 ± 106
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −304
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

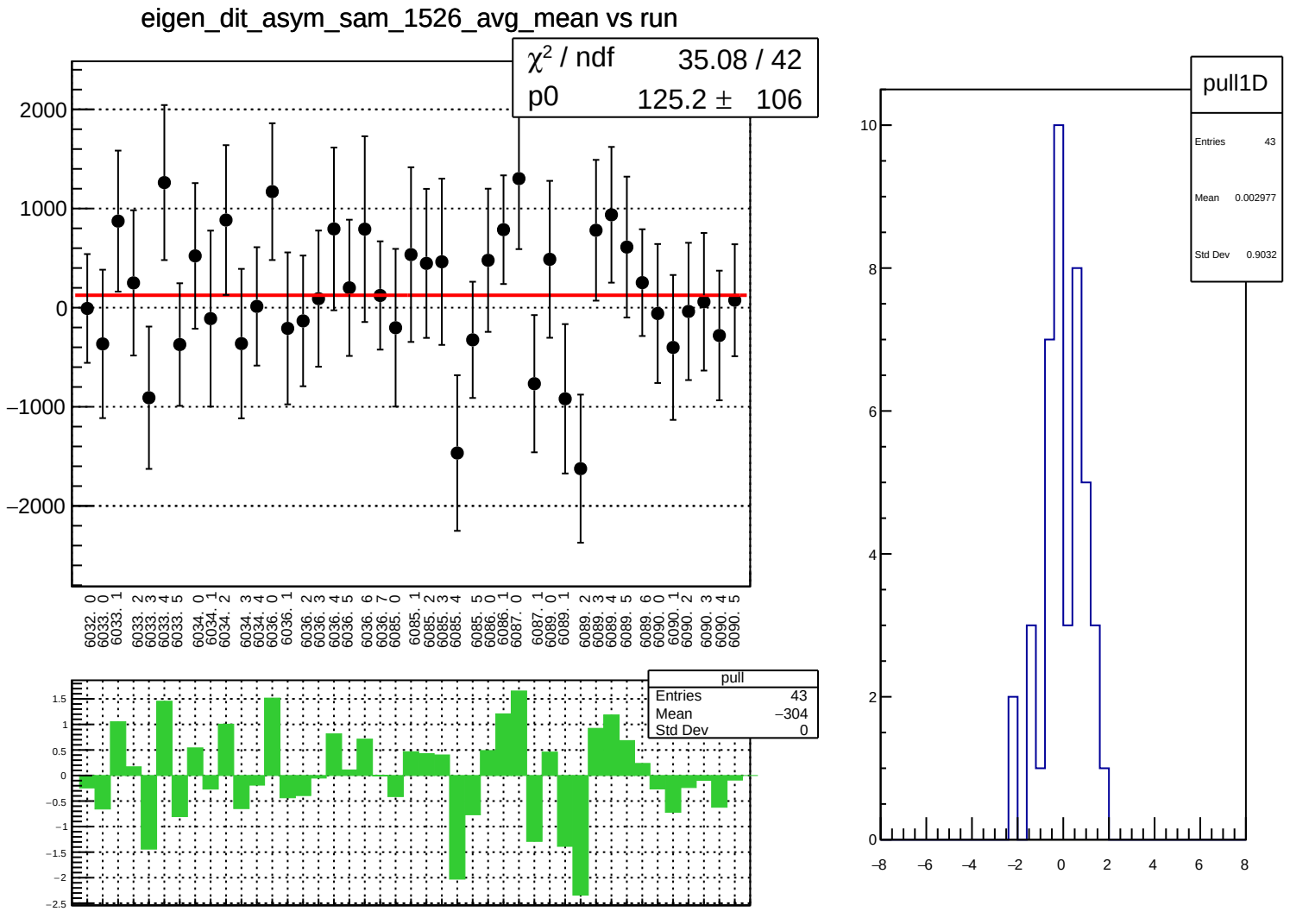

pull1D
Entries 43
Mean 0.002978
Std Dev 0.9032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

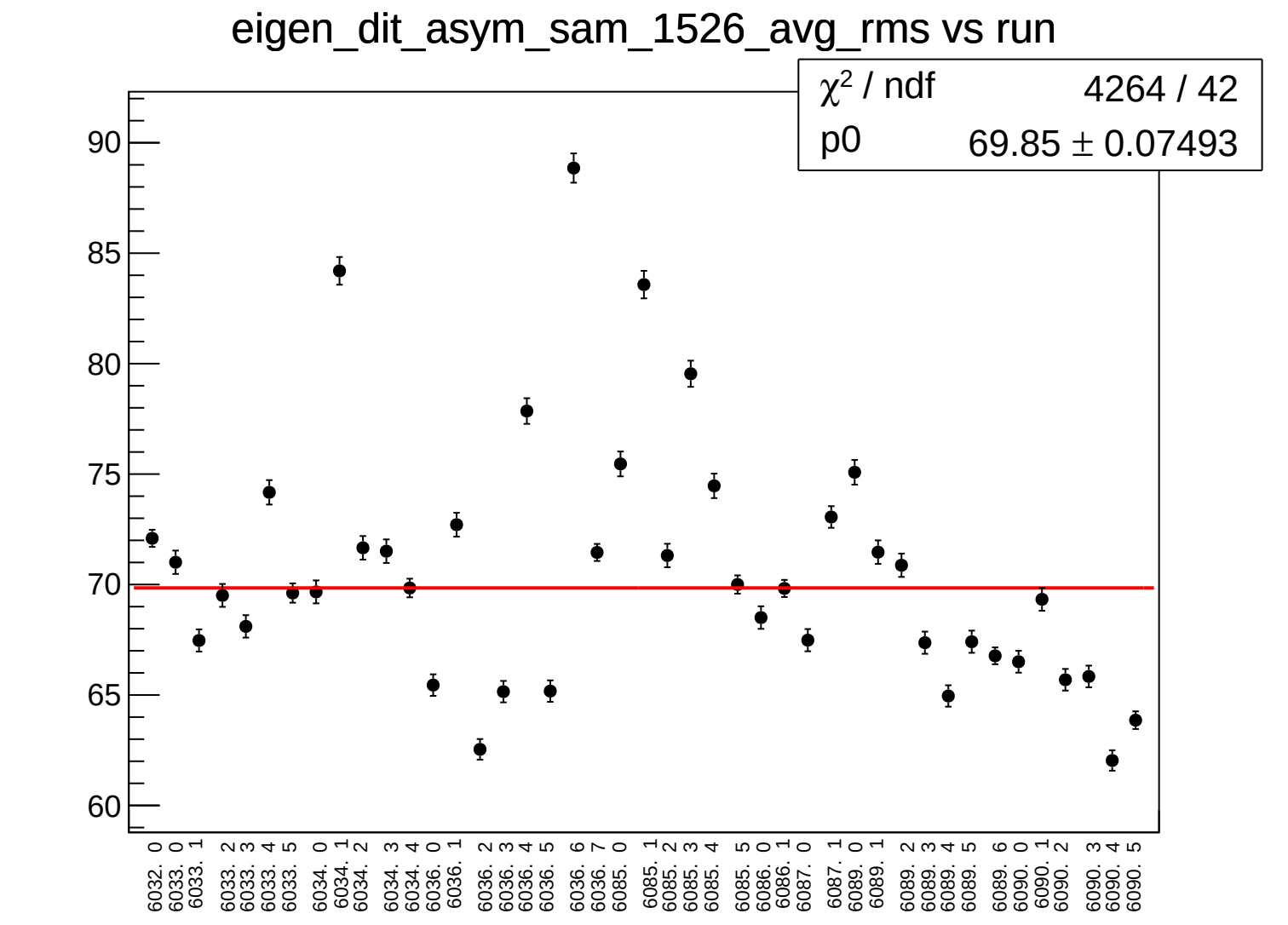

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4264 / 42
p0 69.85 ± 0.07493
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

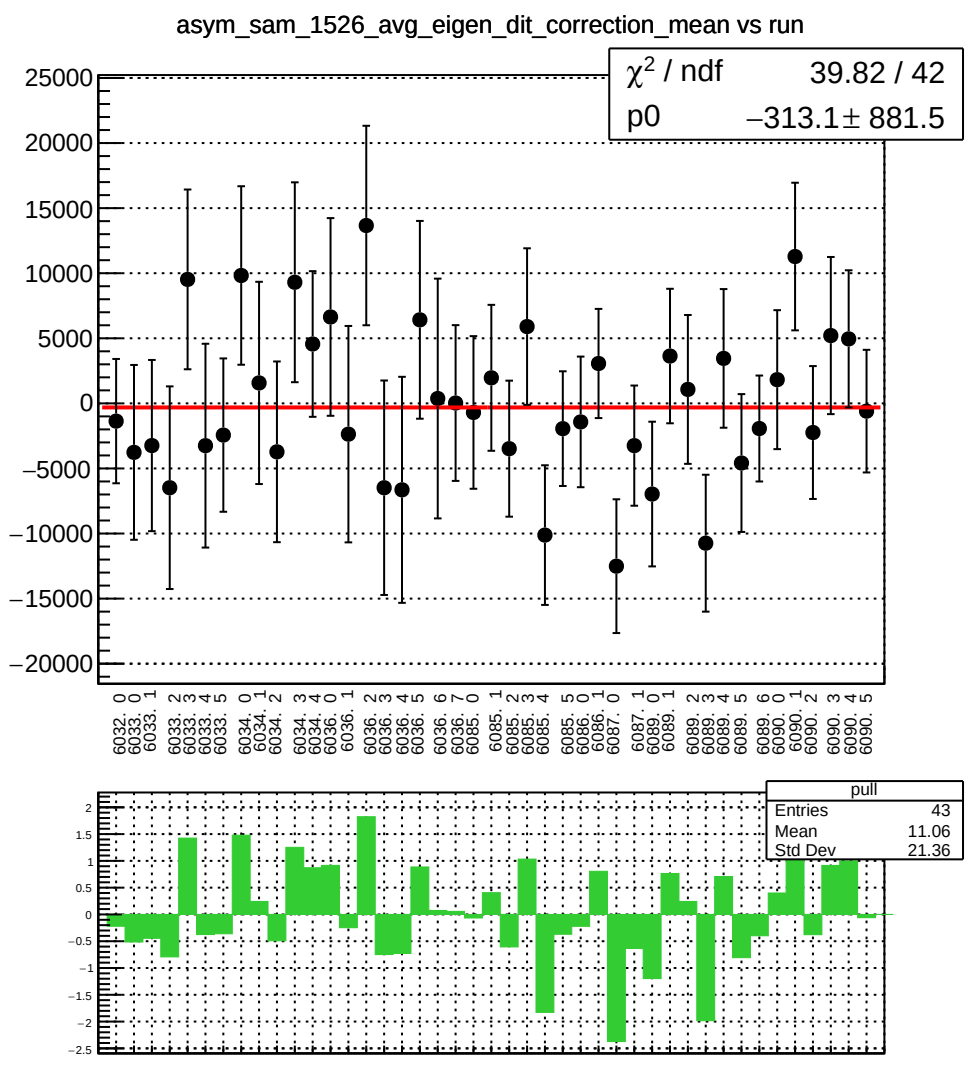

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 39.82 / 42
p0 −313.1± 881.5
pull
Entries 43
Mean 11.06
Std Dev 21.36

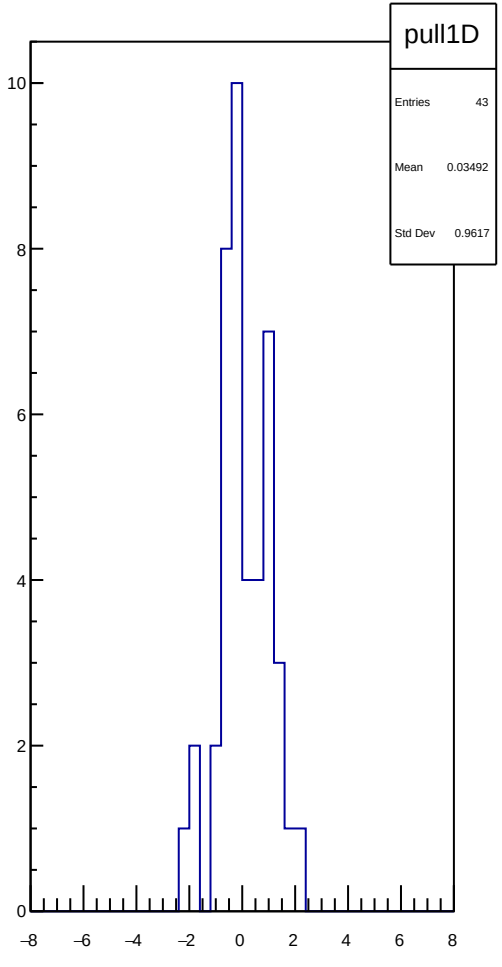

pull1D
Entries 43
Mean 0.03492
Std Dev 0.9617

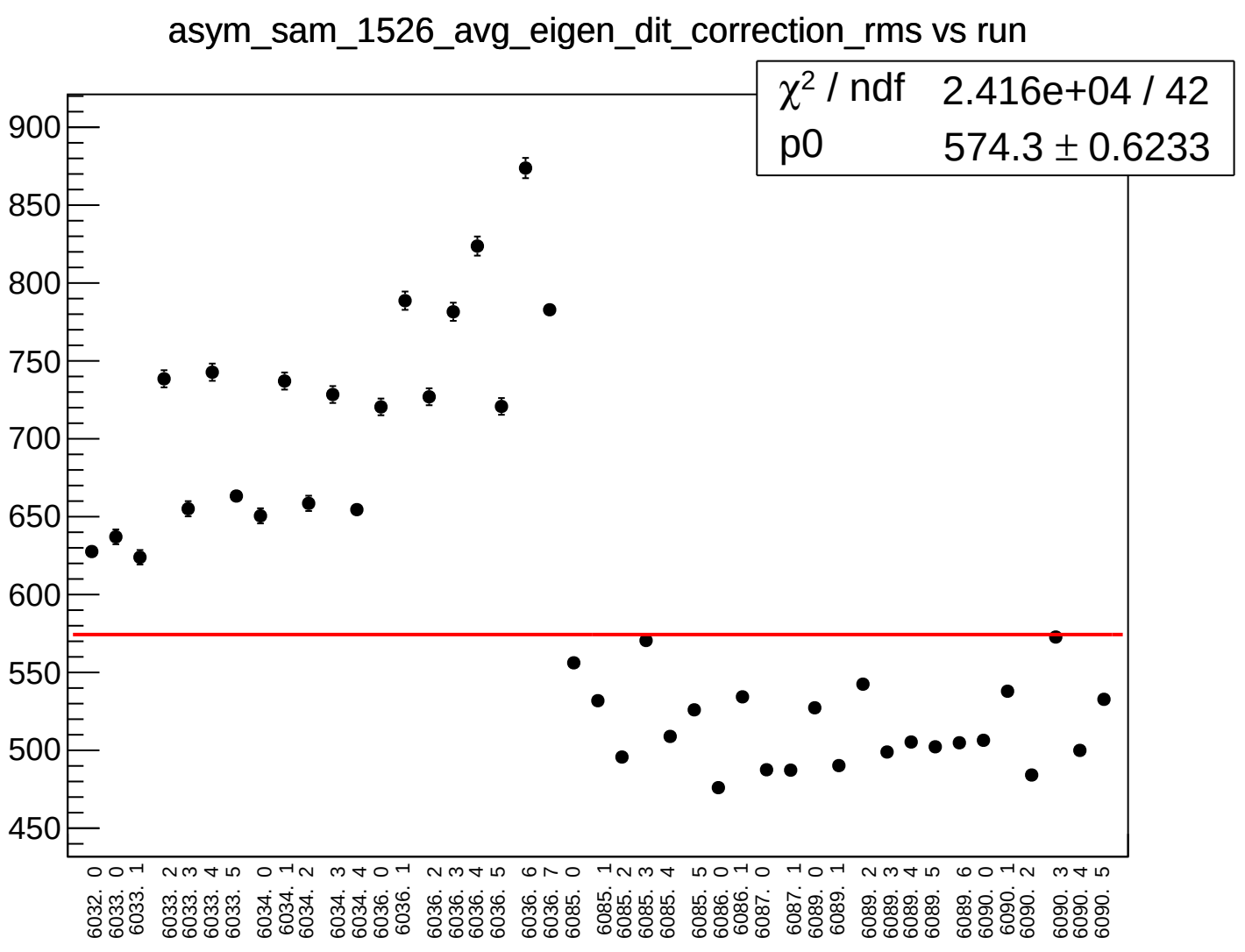

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2.416e+04 / 42
p0 574.3 ± 0.6233
900
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

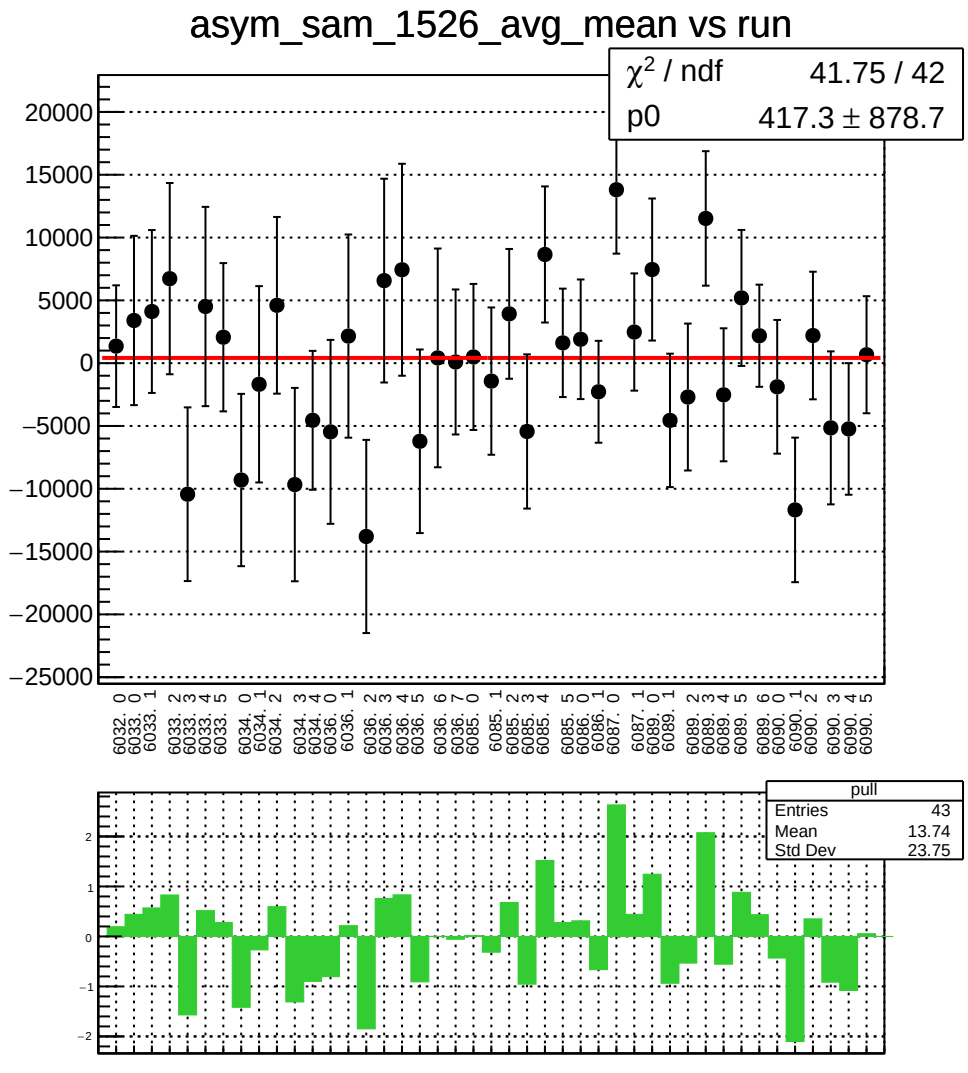

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 35.08 / 42
p0 125.2 ± 106
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −304
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.002977
Std Dev 0.9032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

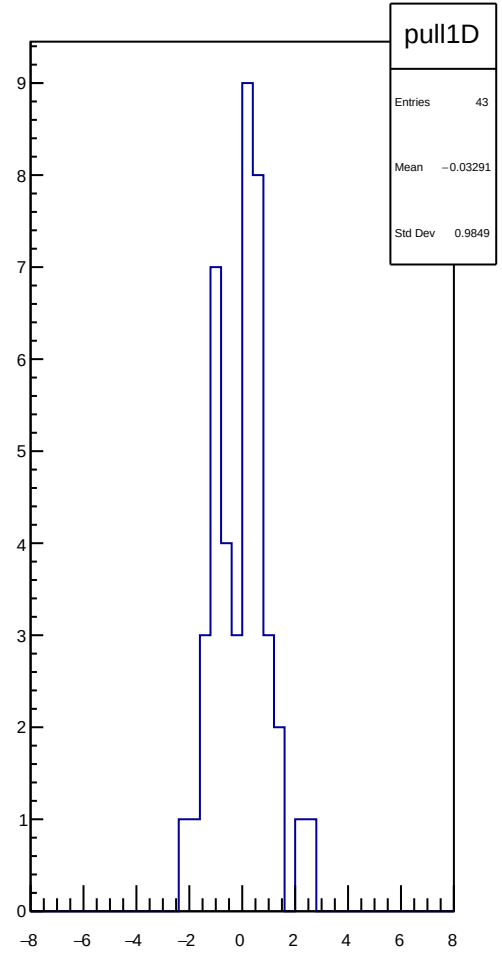

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 4264 / 42
p0 69.85 ± 0.07493
90
85
80
75
70
65
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

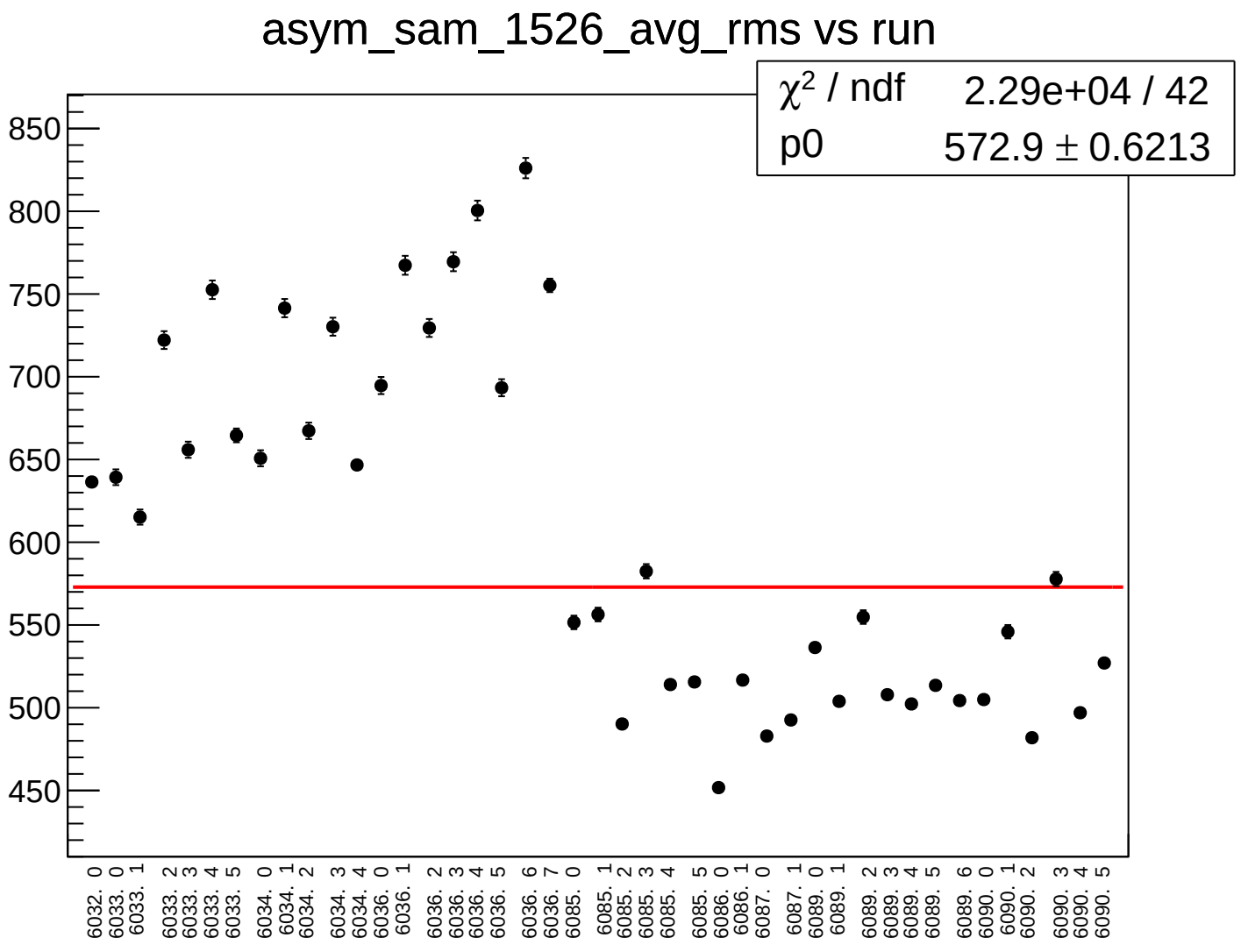

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.82 / 42
p0 −313.1± 881.5
pull
Entries 43
Mean 11.06
Std Dev 21.36

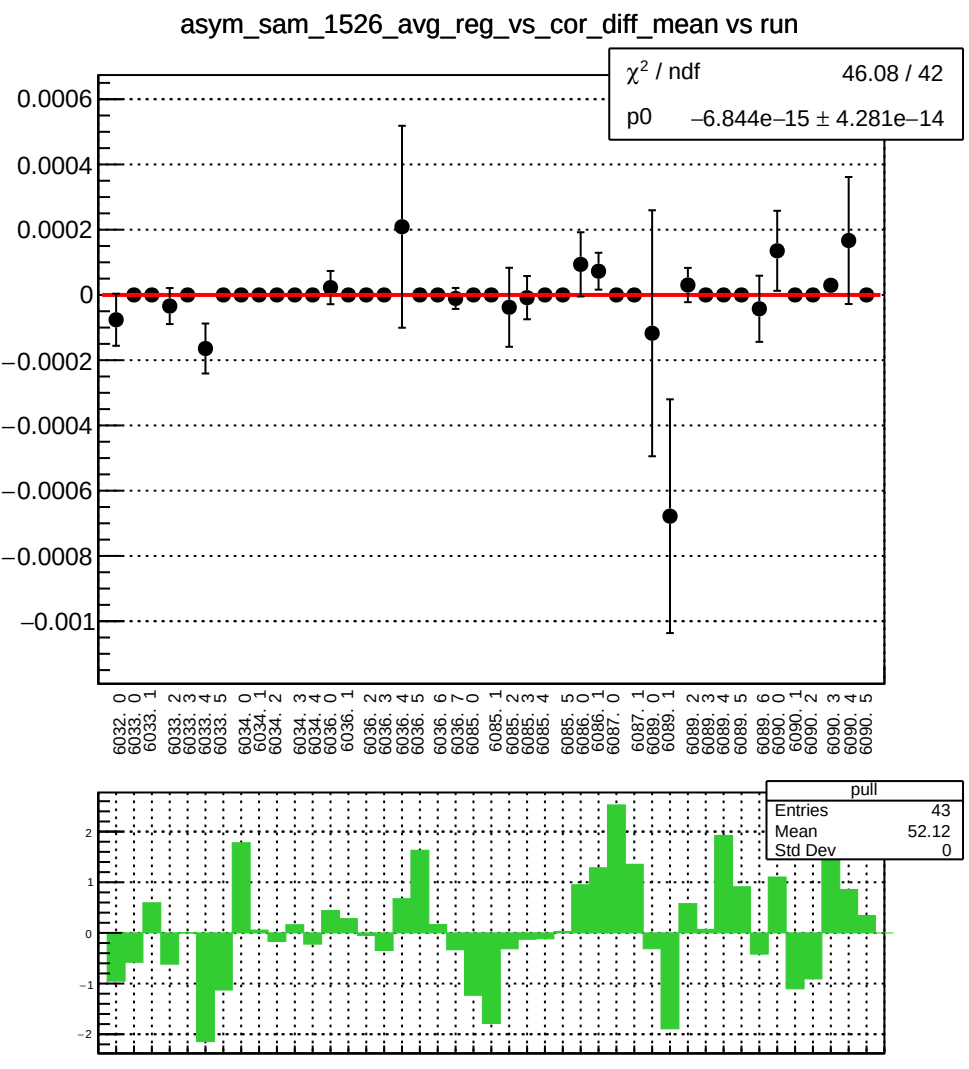

pull1D
Entries 43
Mean 0.03492
Std Dev 0.9617

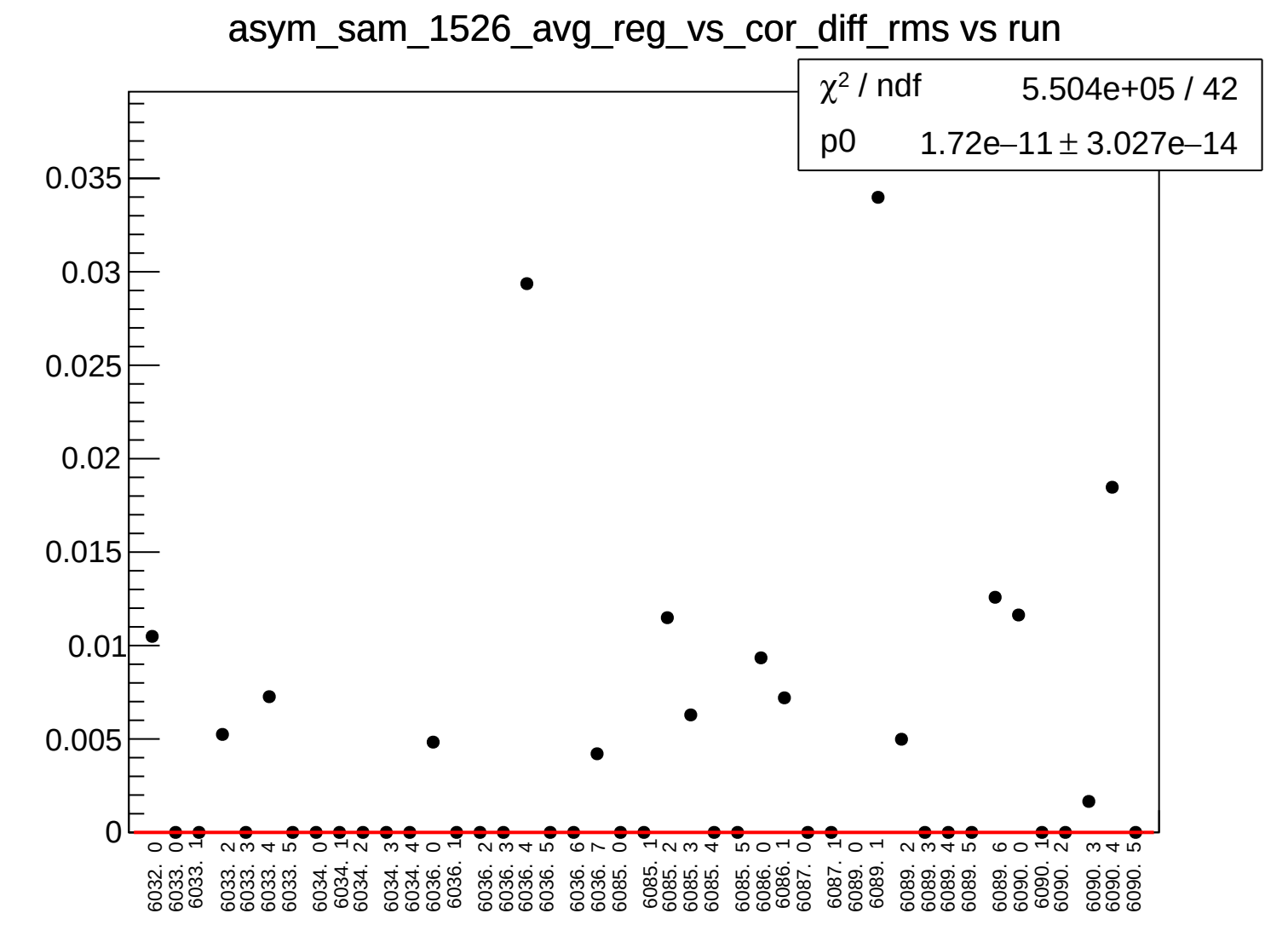

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.416e+04 / 42
p0 574.3 ± 0.6233
900
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

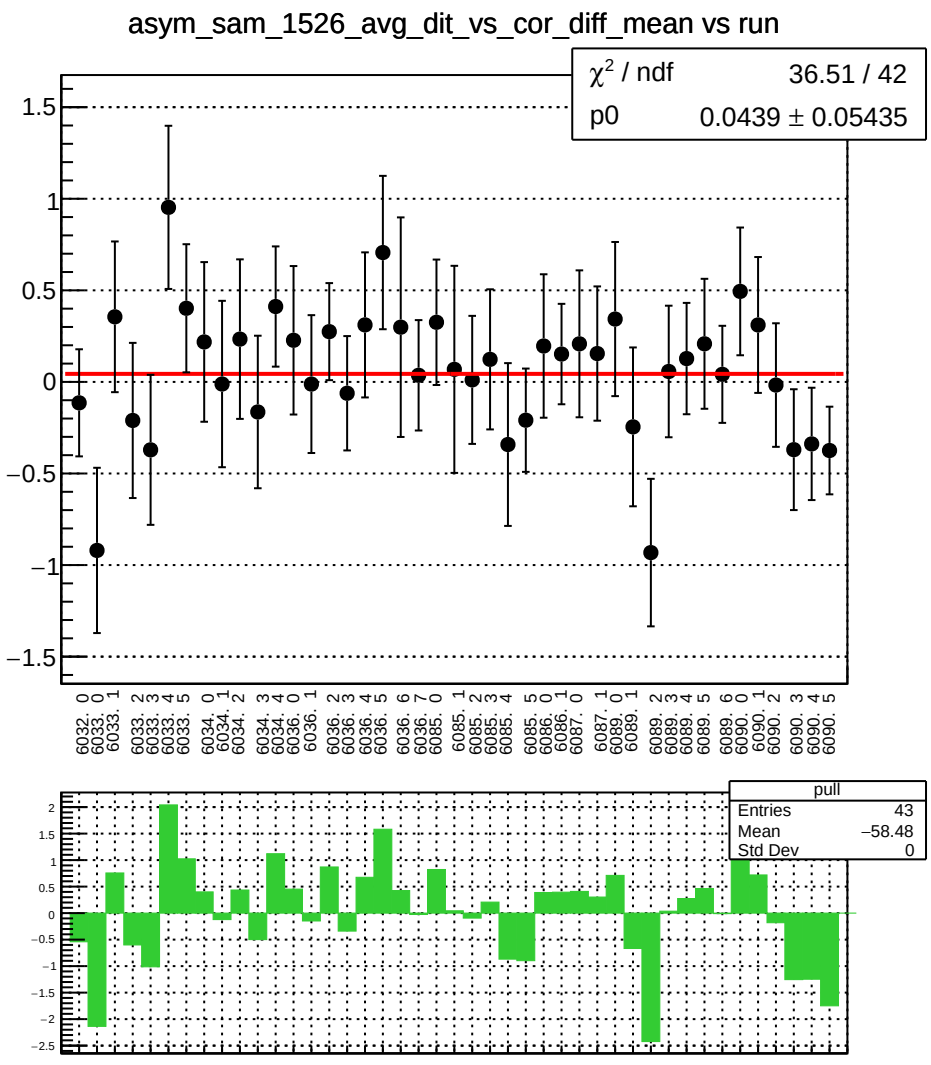

asym_sam_1526_avg_mean vs run
χ² / ndf 41.75 / 42
p0 417.3 ± 878.7
pull
Entries 43
Mean 13.74
Std Dev 23.75

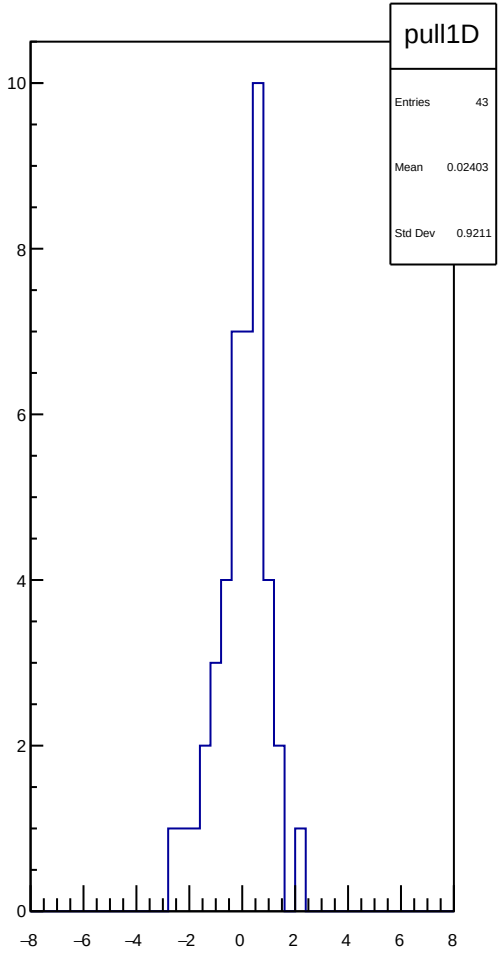

pull1D
Entries 43
Mean −0.03291
Std Dev 0.9849

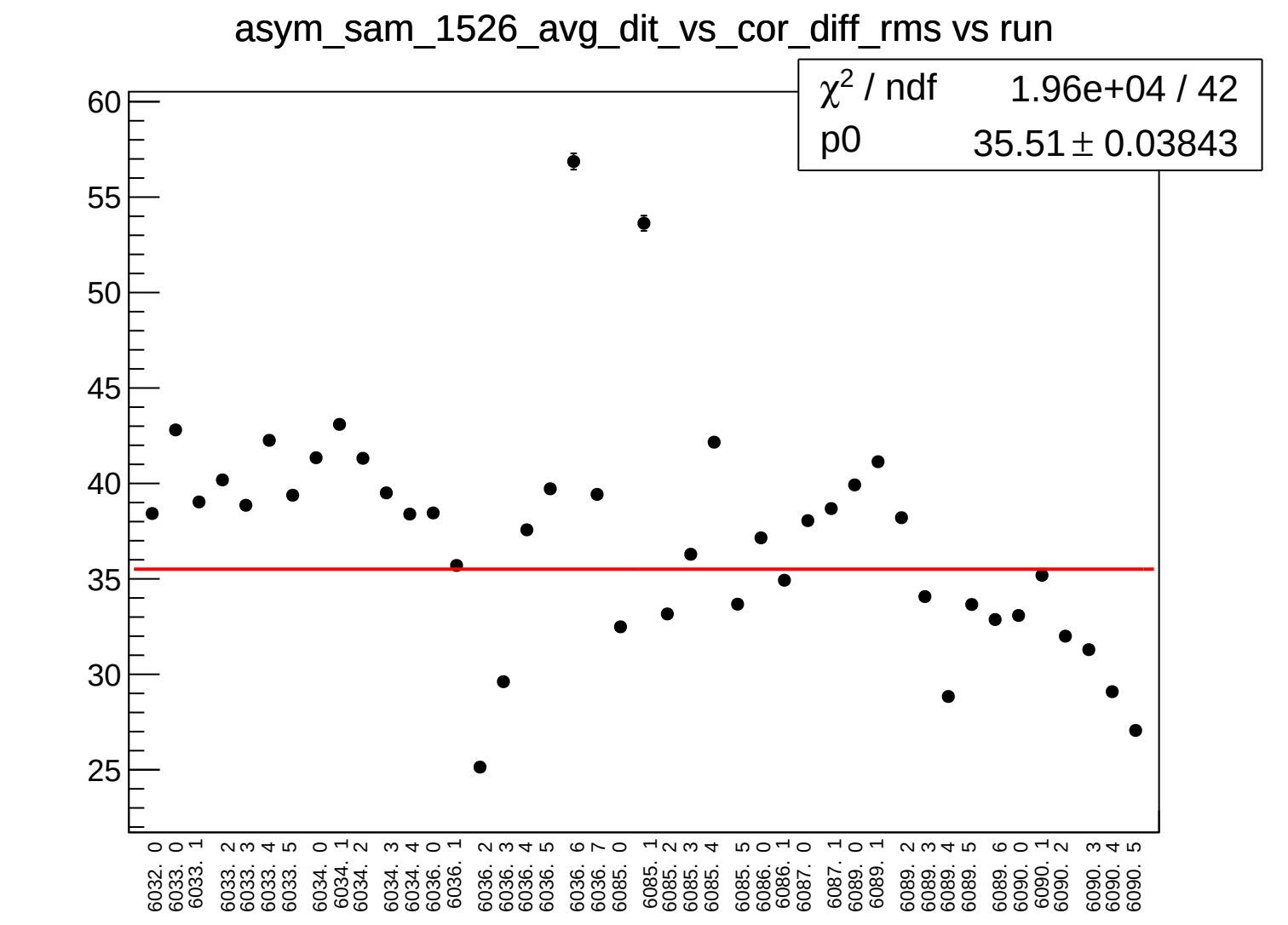

asym_sam_1526_avg_rms vs run
χ² / ndf 2.29e+04 / 42
p0 572.9 ± 0.6213
850
800
750
700
650
600
550
500
450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

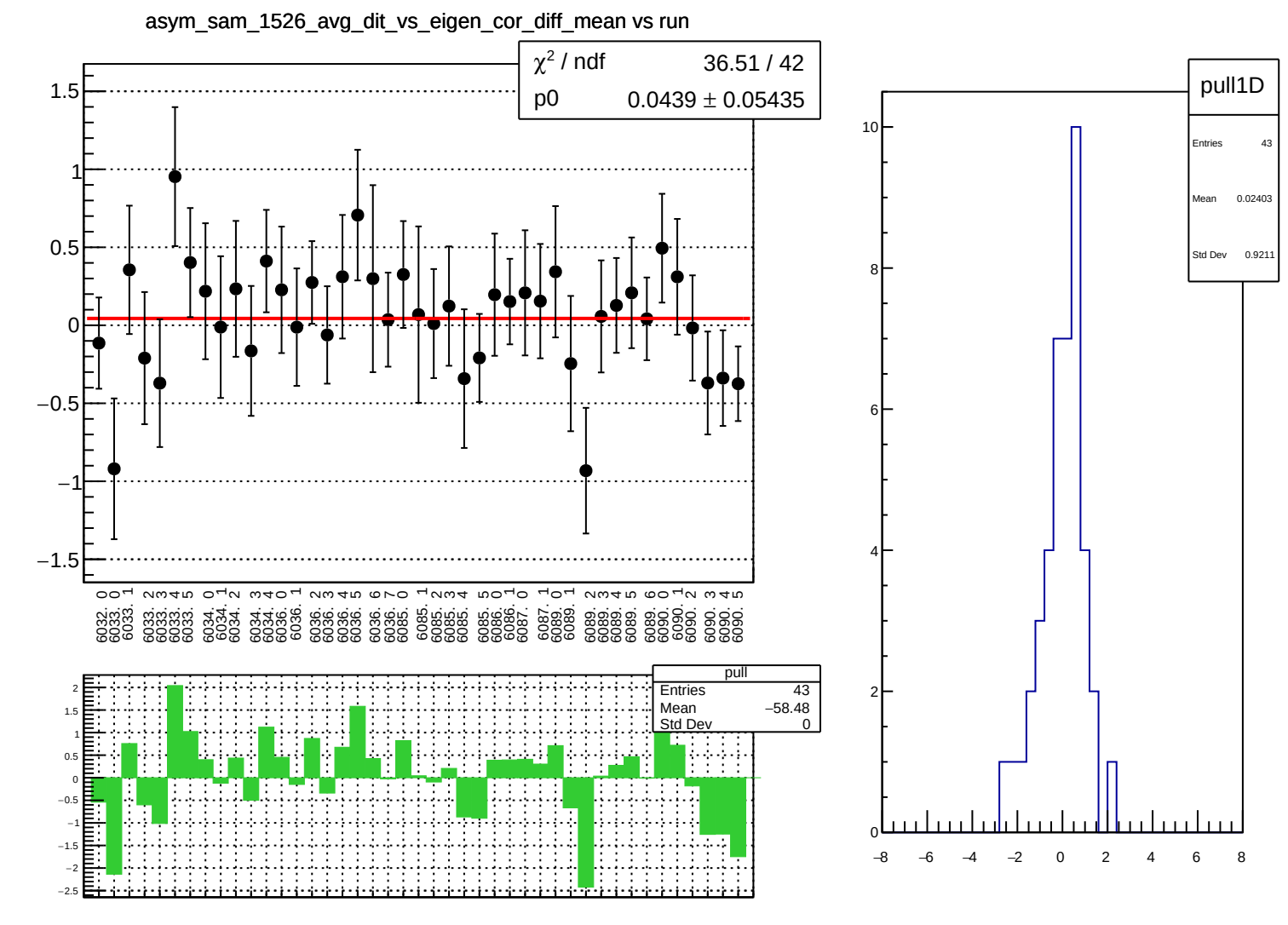

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 46.08 / 42
p0 −6.844e−15 ± 4.281e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 52.12
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1087
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

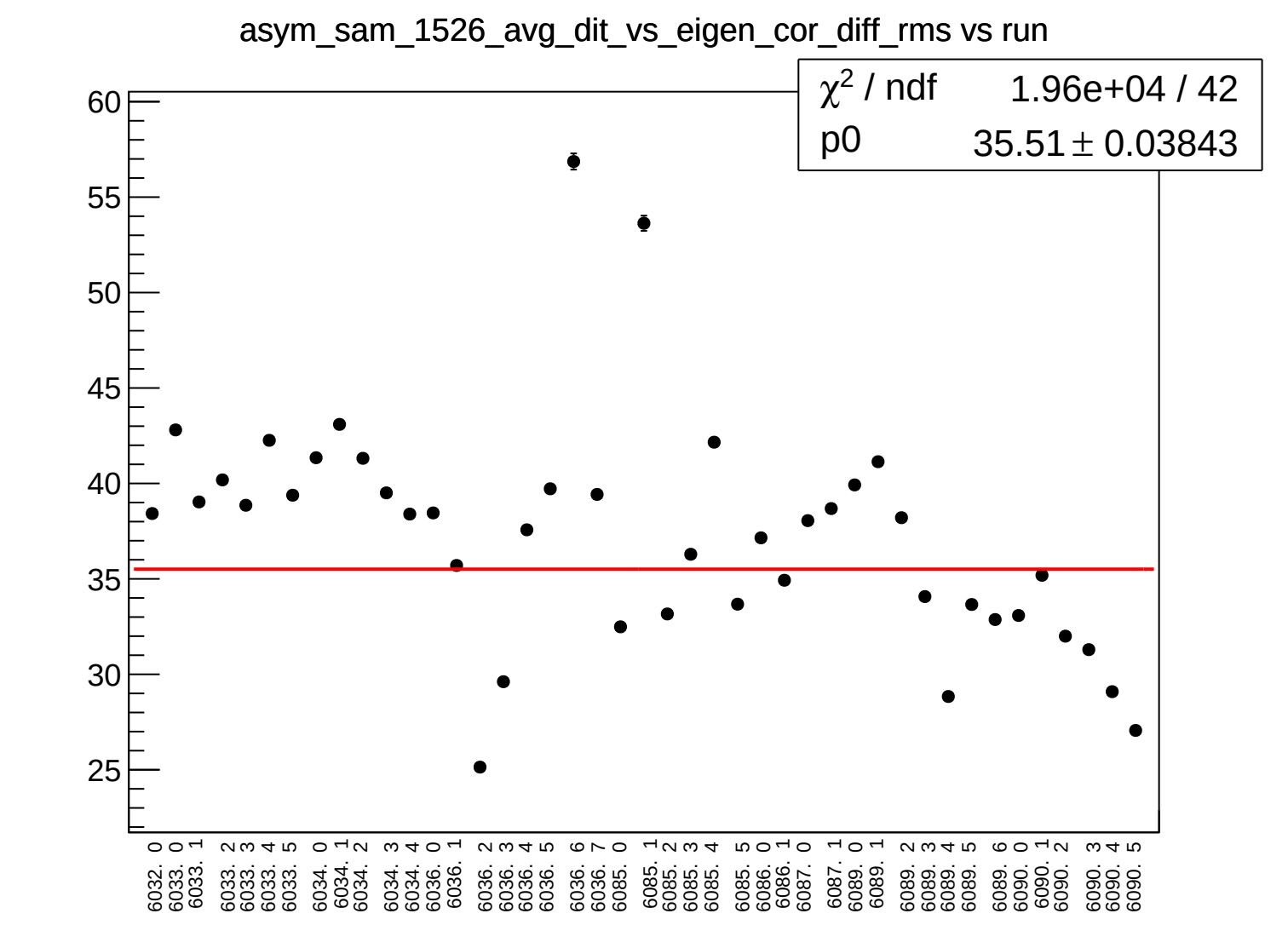

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.504e+05 / 42
p0 1.72e−11 ± 3.027e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

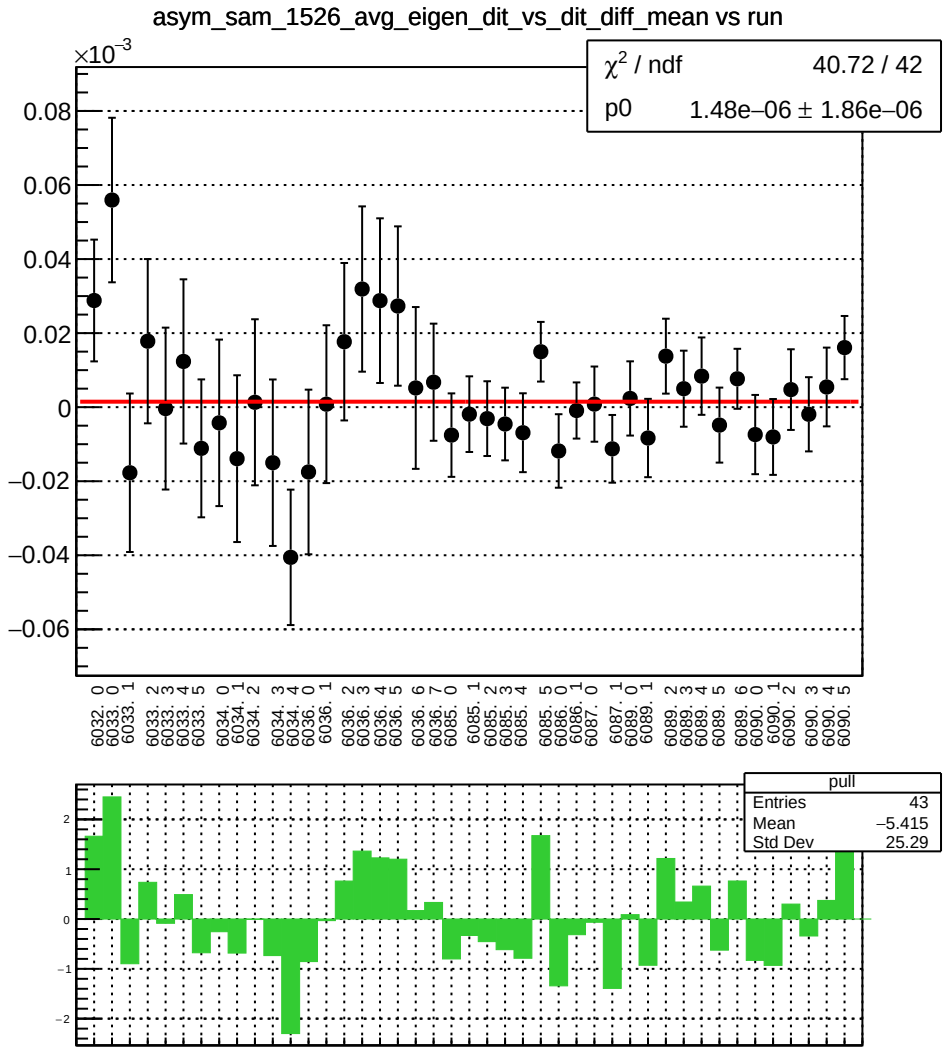

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.51 / 42
p0 0.0439 ± 0.05435
pull
Entries 43
Mean −58.48
Std Dev 0

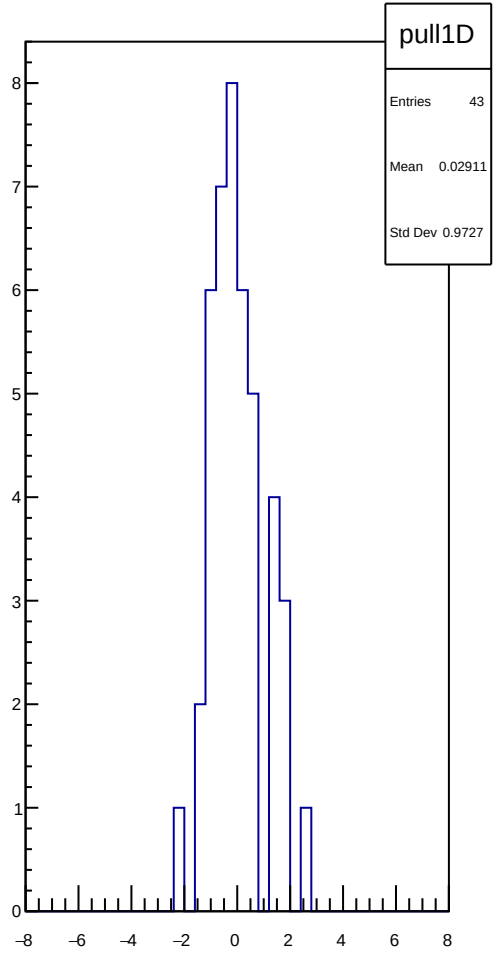

pull1D
Entries 43
Mean 0.02403
Std Dev 0.9211

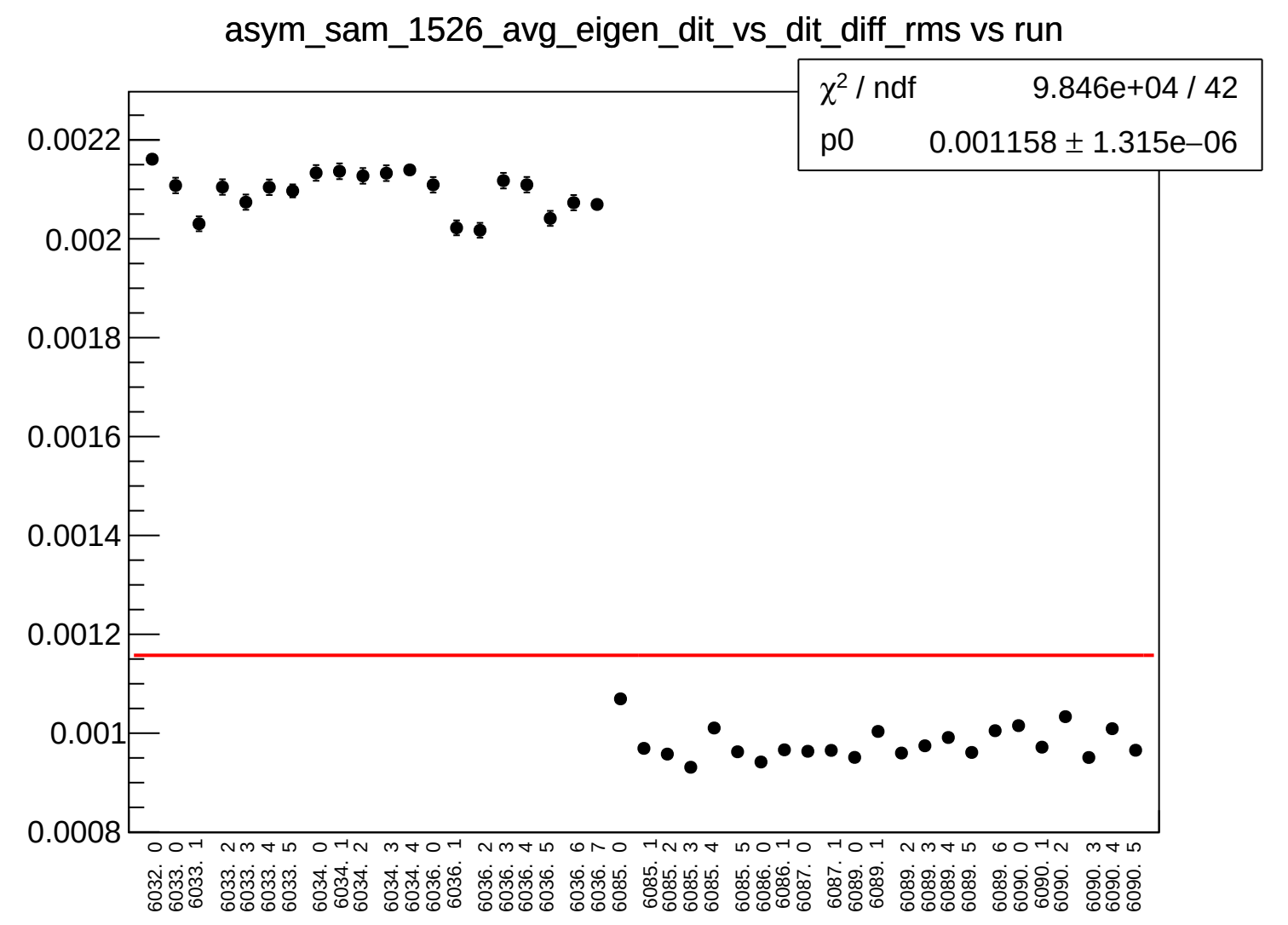

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.96e+04 / 42
p0 35.51 ± 0.03843
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

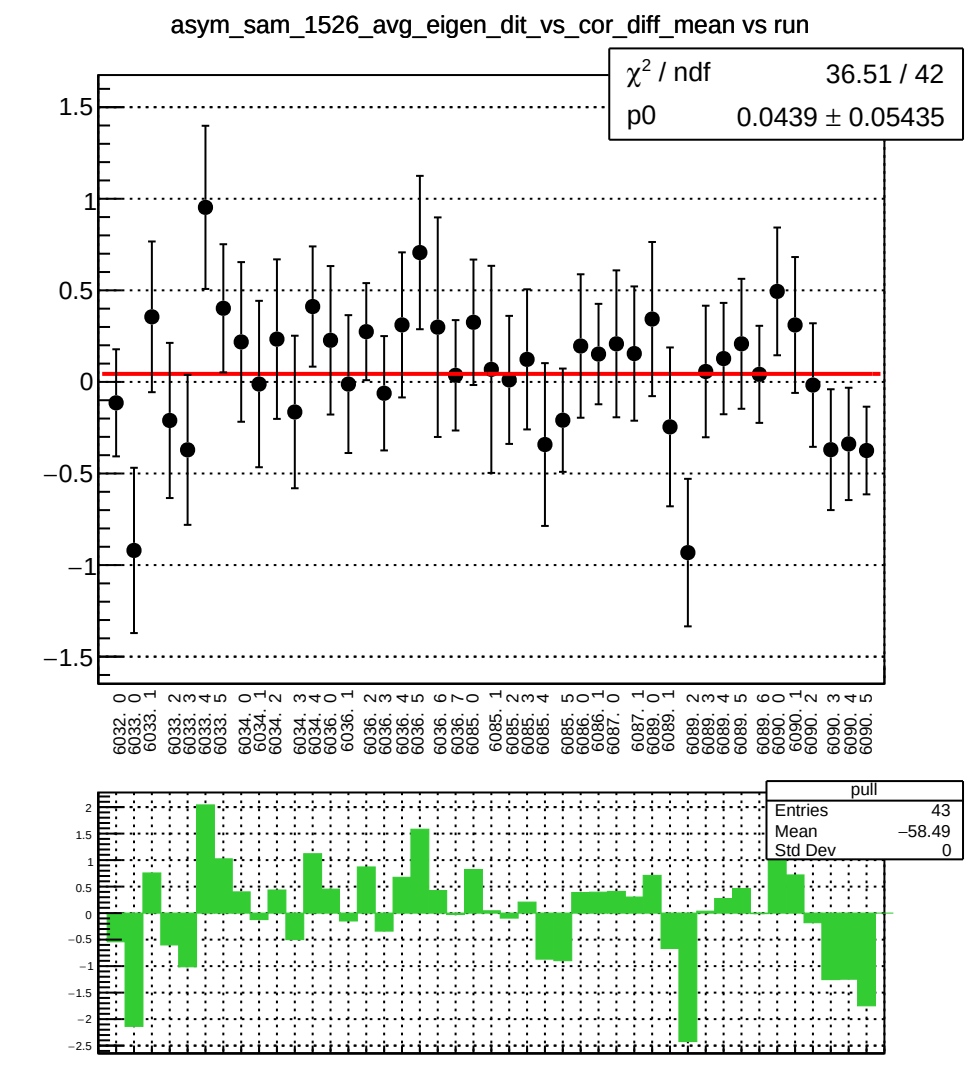

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.51 / 42
p0 0.0439 ± 0.05435
pull
Entries 43
Mean −58.48
Std Dev 0
pull1D
Entries 43
Mean 0.02403
Std Dev 0.9211

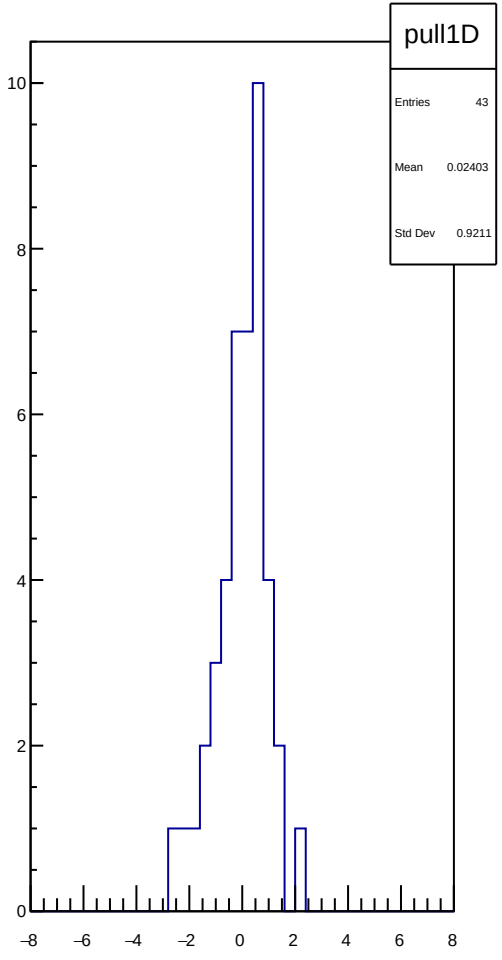

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.96e+04 / 42
p0 35.51 ± 0.03843
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

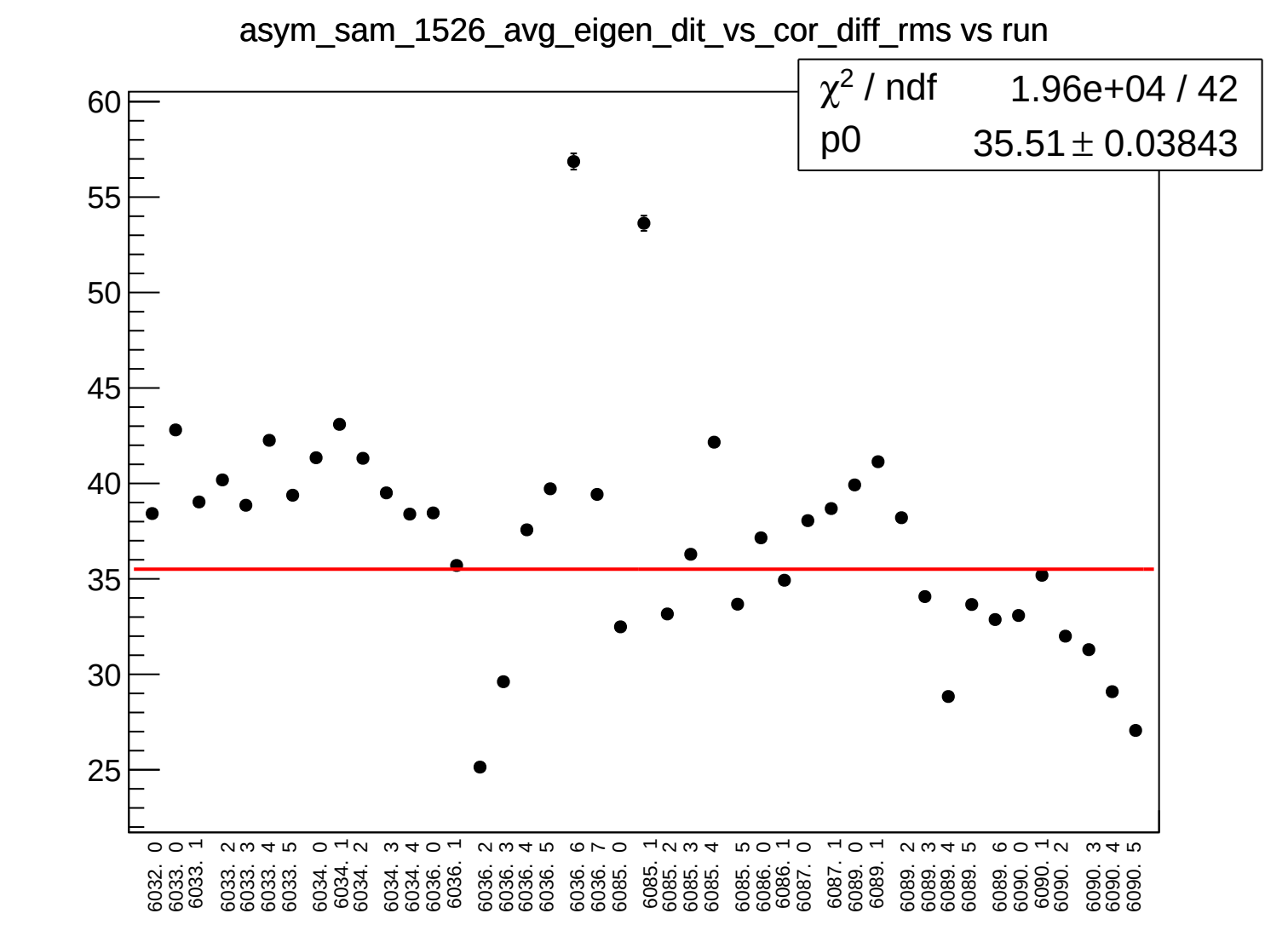

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 40.72 / 42
p0 1.48e−06 ± 1.86e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.415
Std Dev 25.29
2
1
0
−1
−2

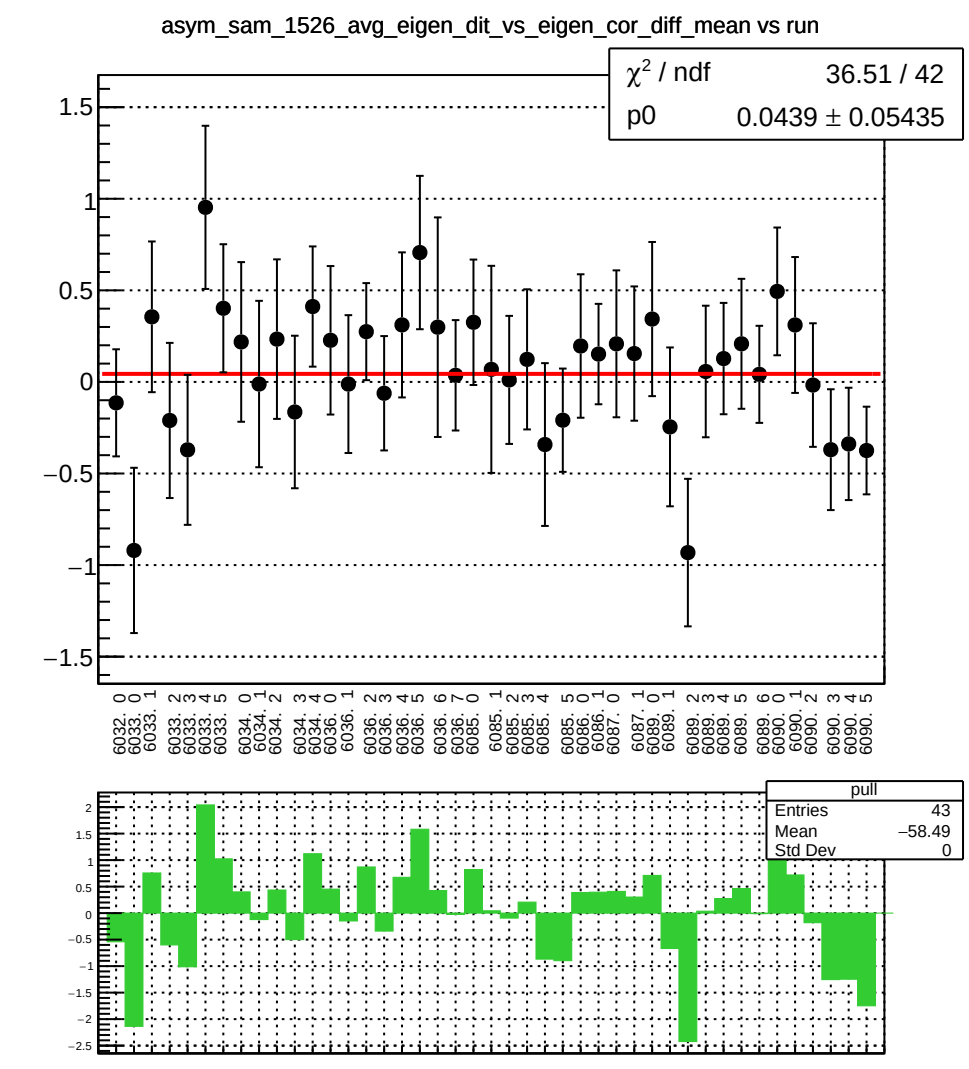

pull1D
Entries 43
Mean 0.02911
Std Dev 0.9727
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

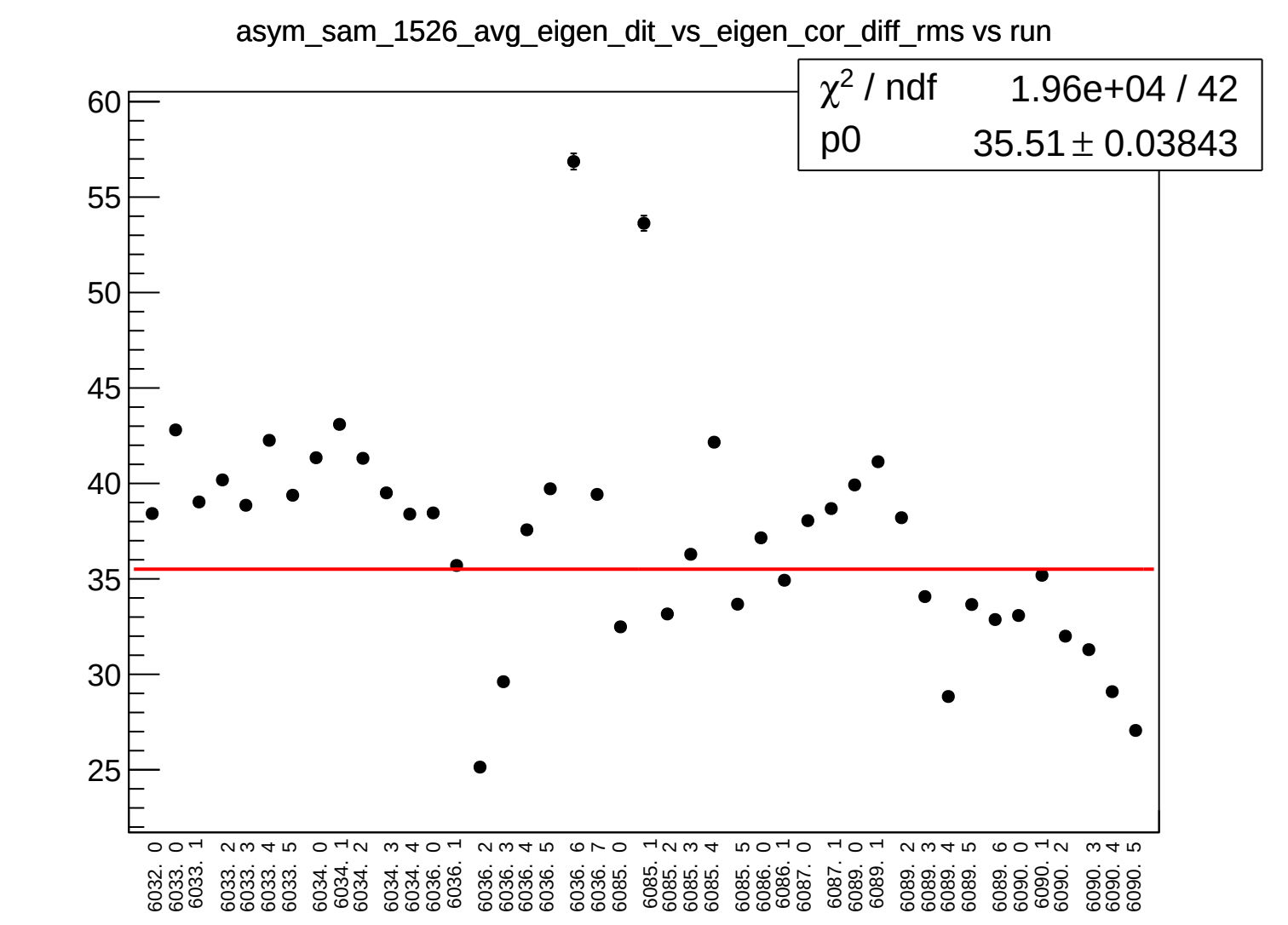

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.846e+04 / 42
p0 0.001158 ± 1.315e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

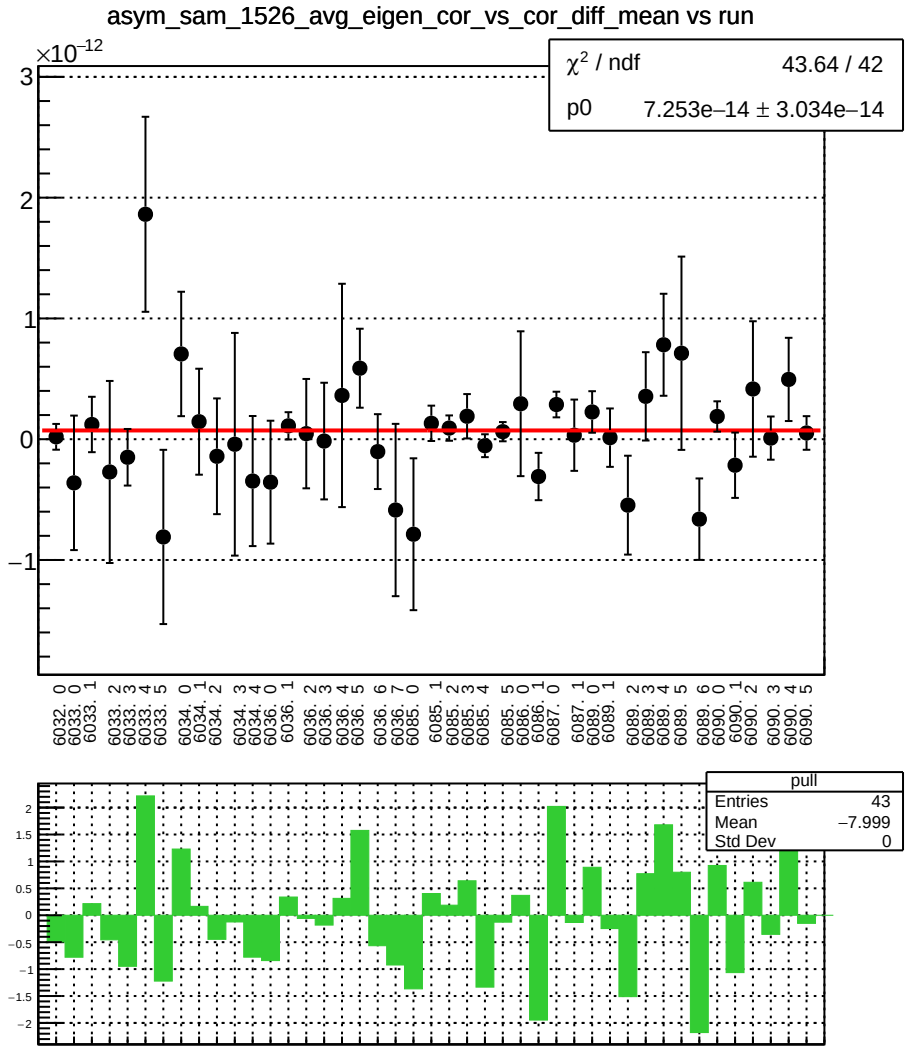

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.51 / 42
p0 0.0439 ± 0.05435
pull
Entries 43
Mean −58.49
Std Dev 0

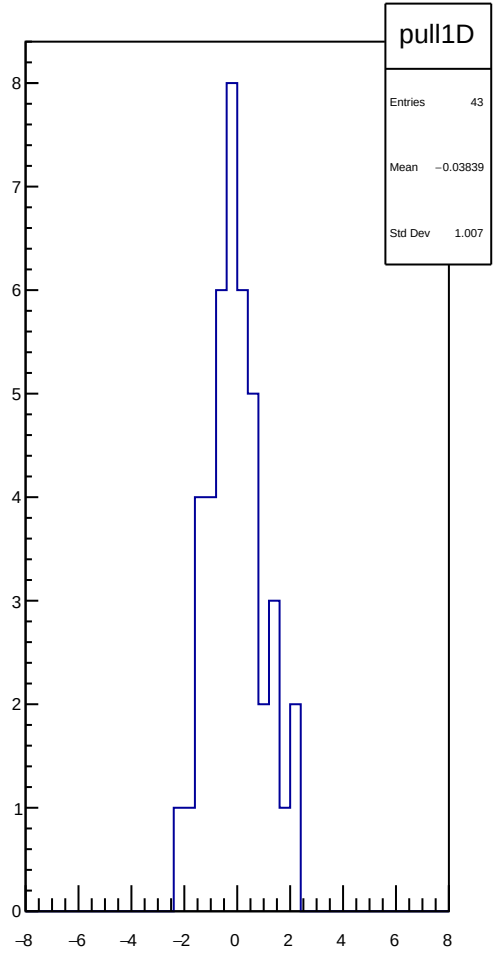

pull1D
Entries 43
Mean 0.02403
Std Dev 0.9211

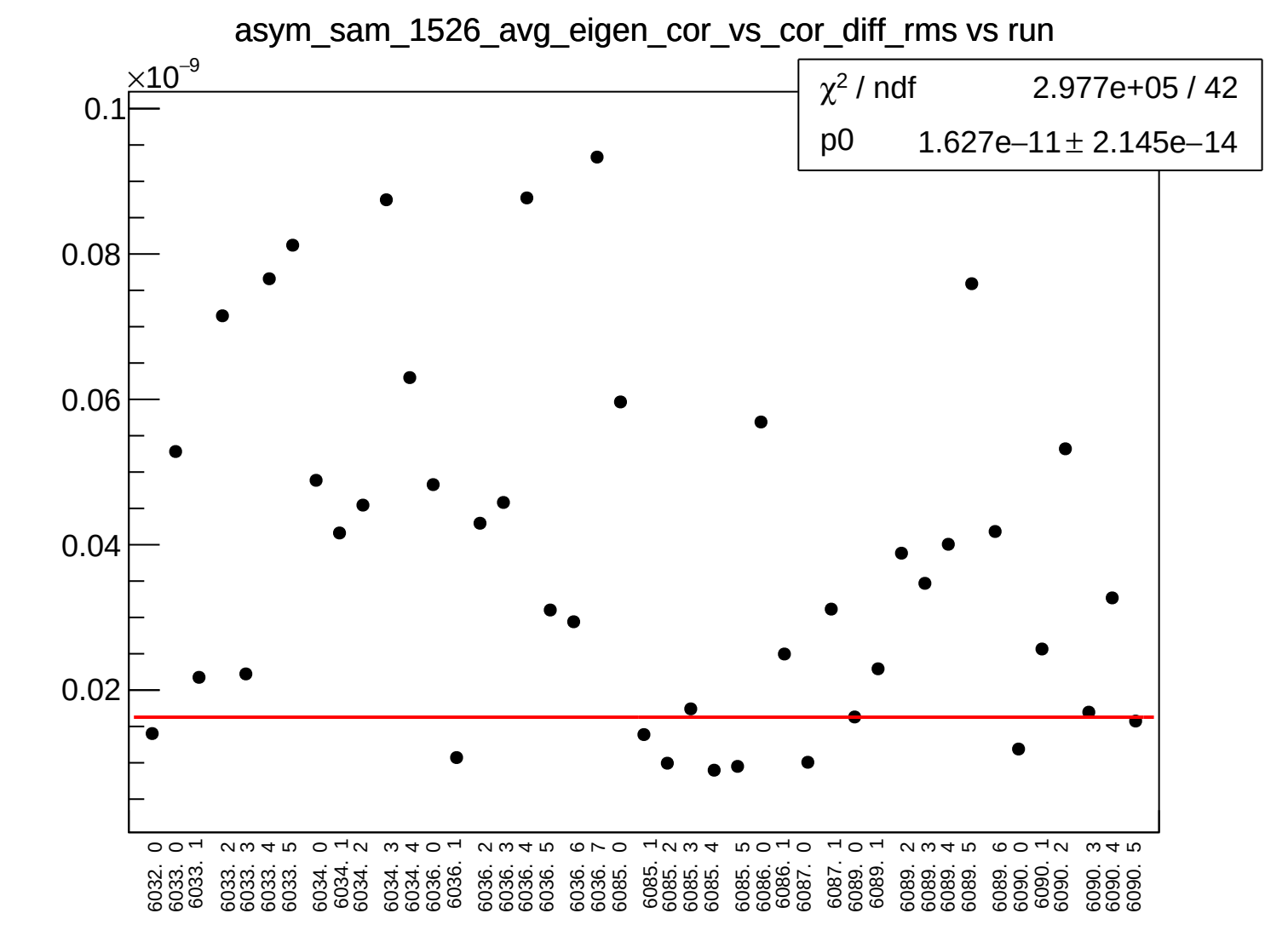

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.96e+04 / 42
p0 35.51 ± 0.03843
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

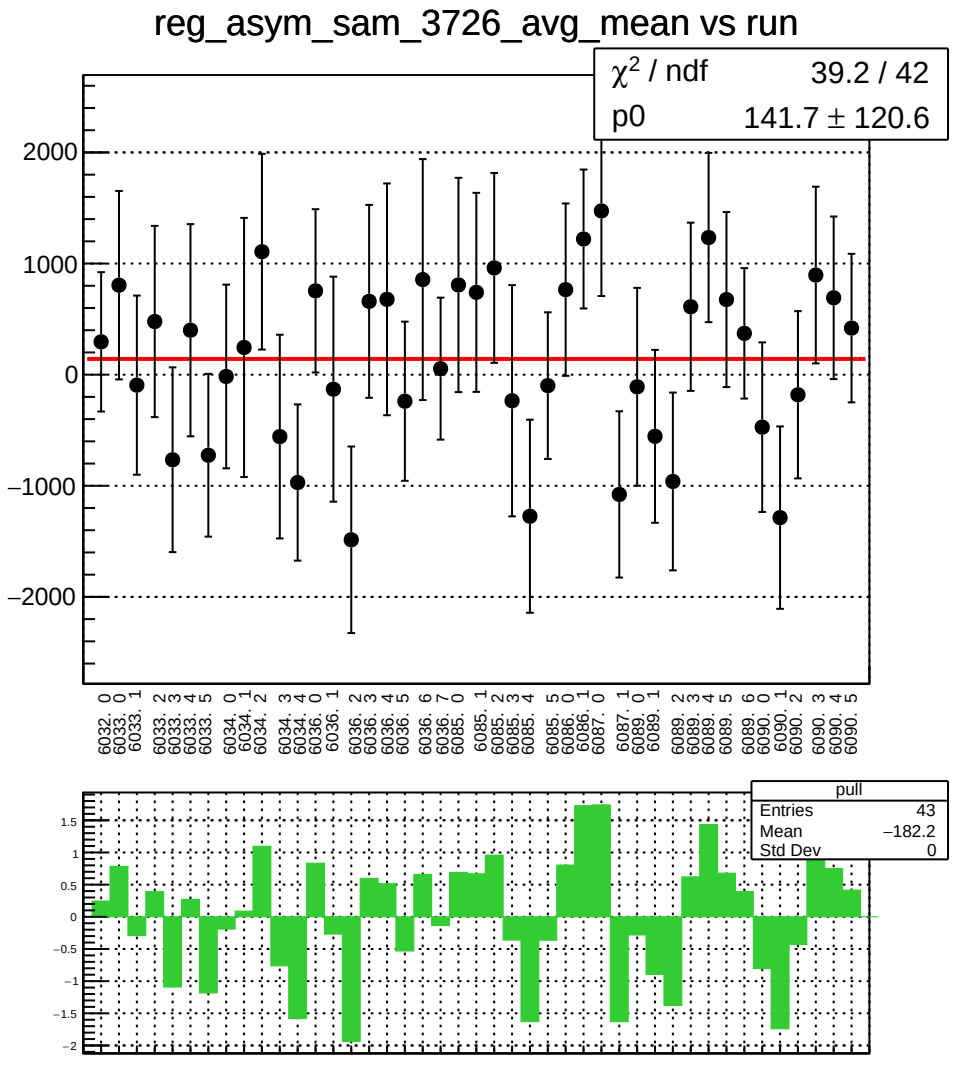

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.51 / 42
p0 0.0439 ± 0.05435
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −58.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02403
Std Dev 0.9211
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

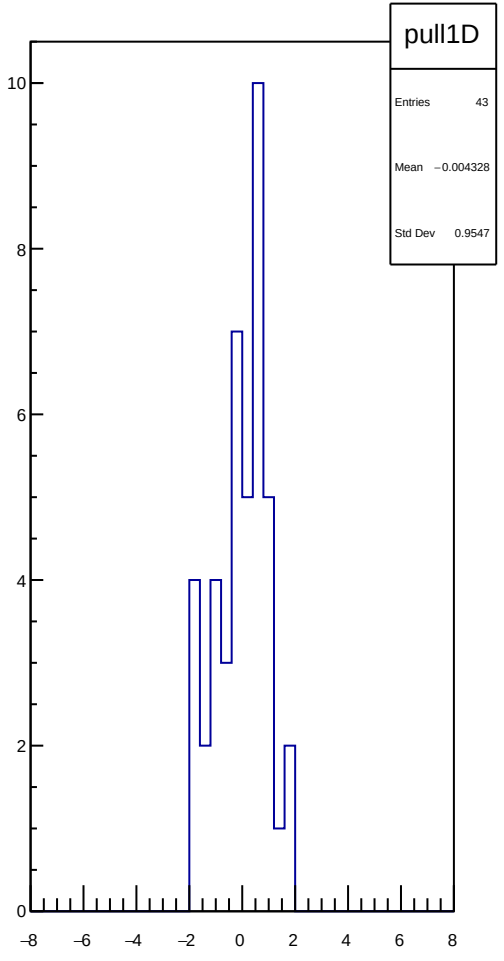

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.96e+04 / 42
p0 35.51 ± 0.03843
60
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

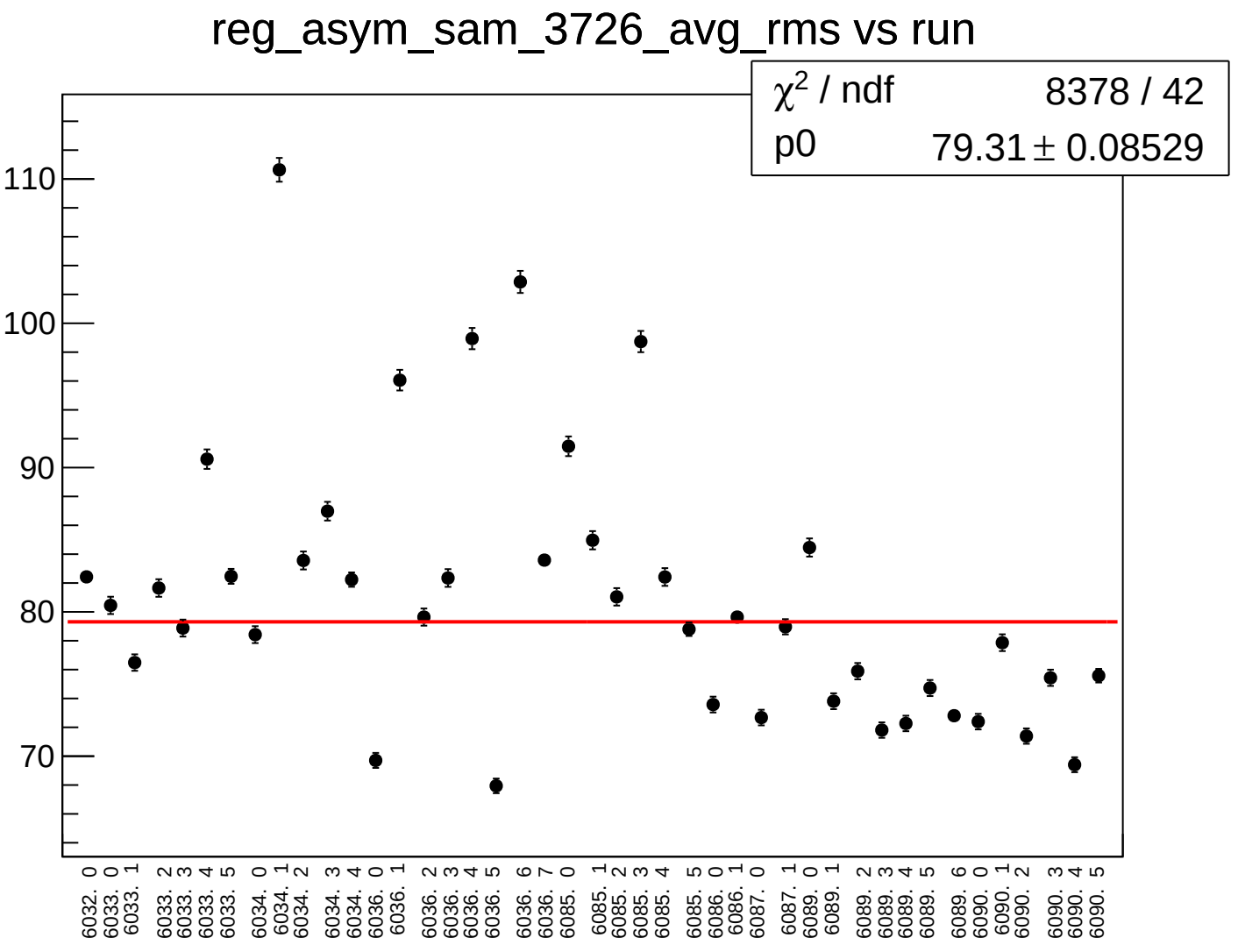

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 43.64 / 42
p0 7.253e−14 ± 3.034e−14
pull
Entries 43
Mean −7.999
Std Dev 0

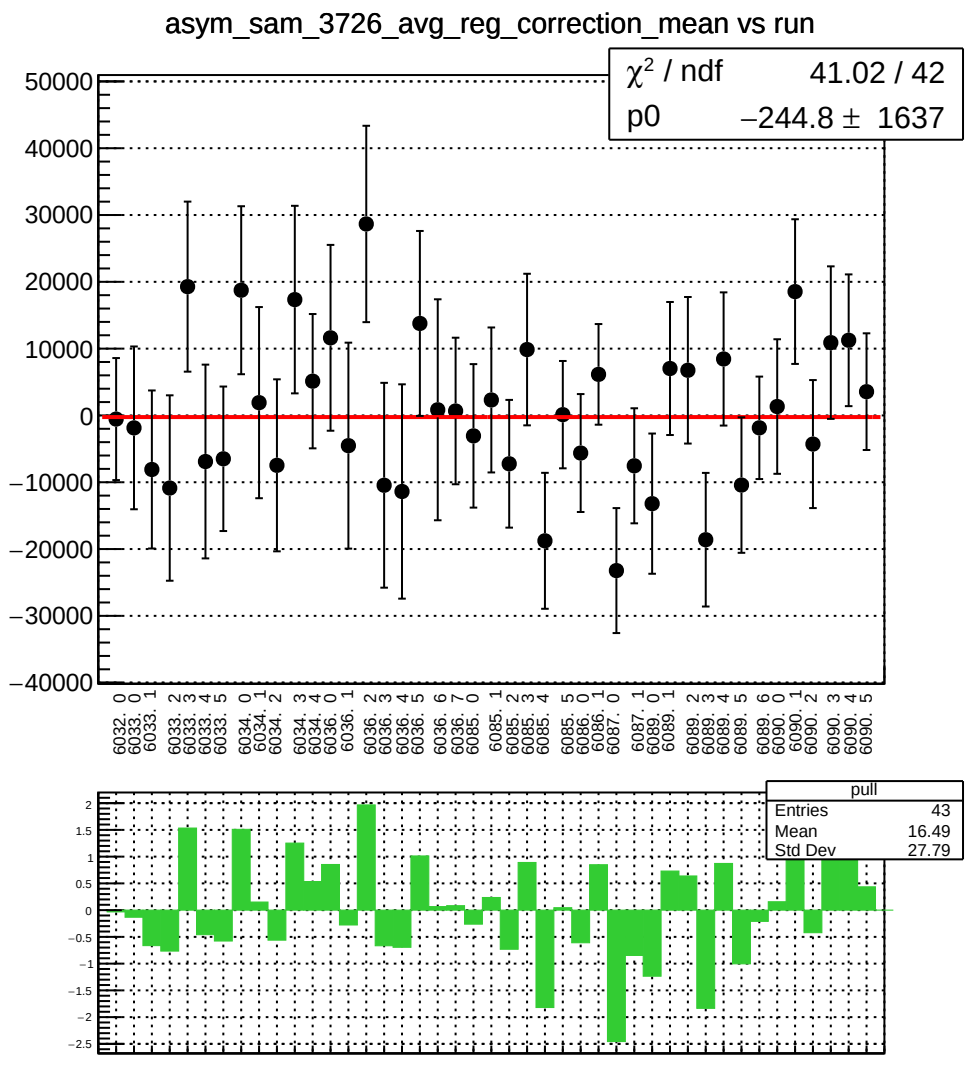

pull1D
Entries 43
Mean −0.03839
Std Dev 1.007

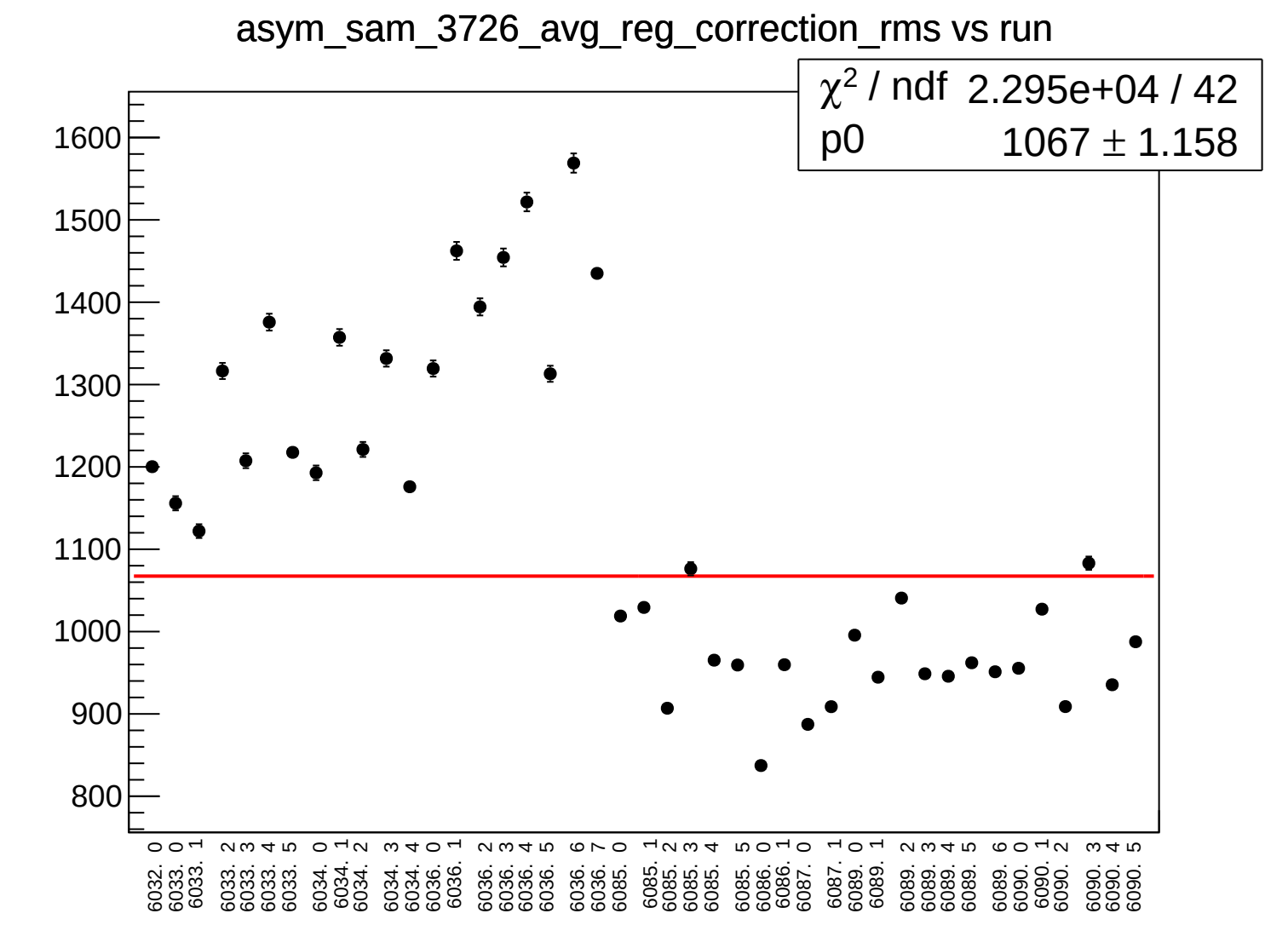

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.977e+05 / 42
p0 1.627e−11 ± 2.145e−14
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

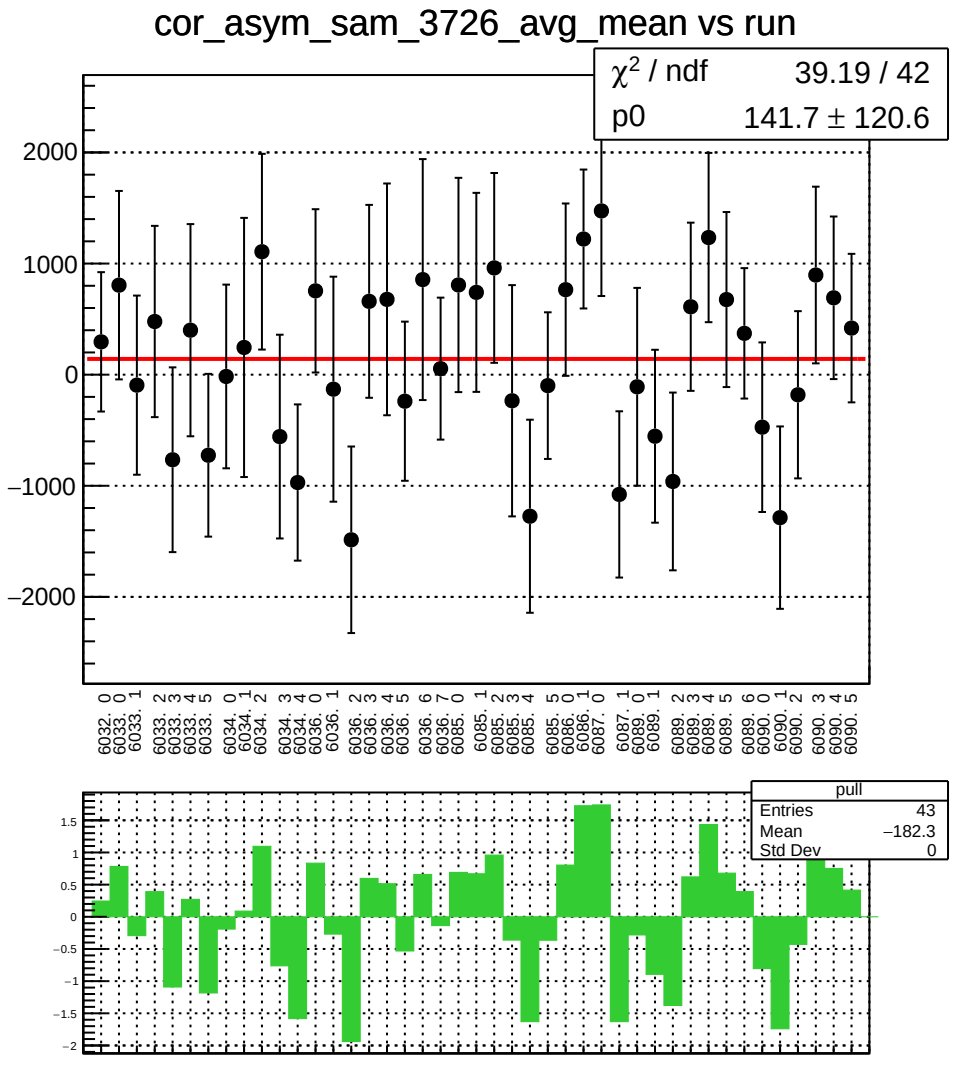

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 39.2 / 42
p0 141.7 ± 120.6
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −182.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

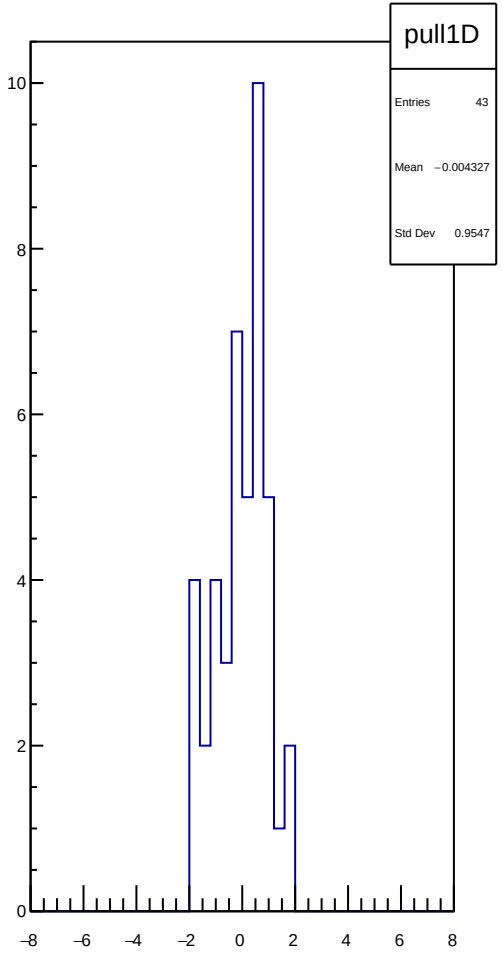

pull1D
Entries 43
Mean −0.004328
Std Dev 0.9547
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

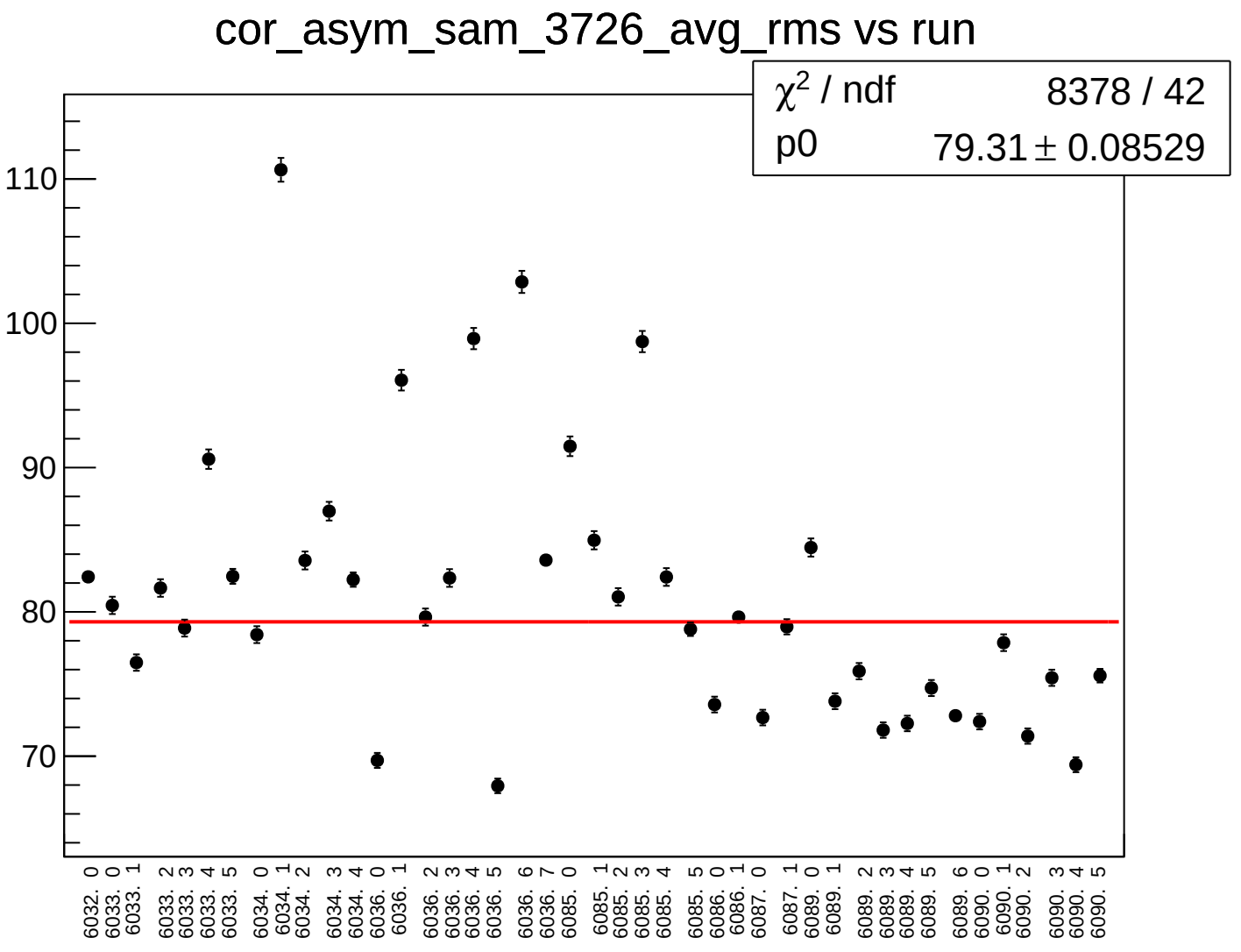

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 8378 / 42
p0 79.31 ± 0.08529
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

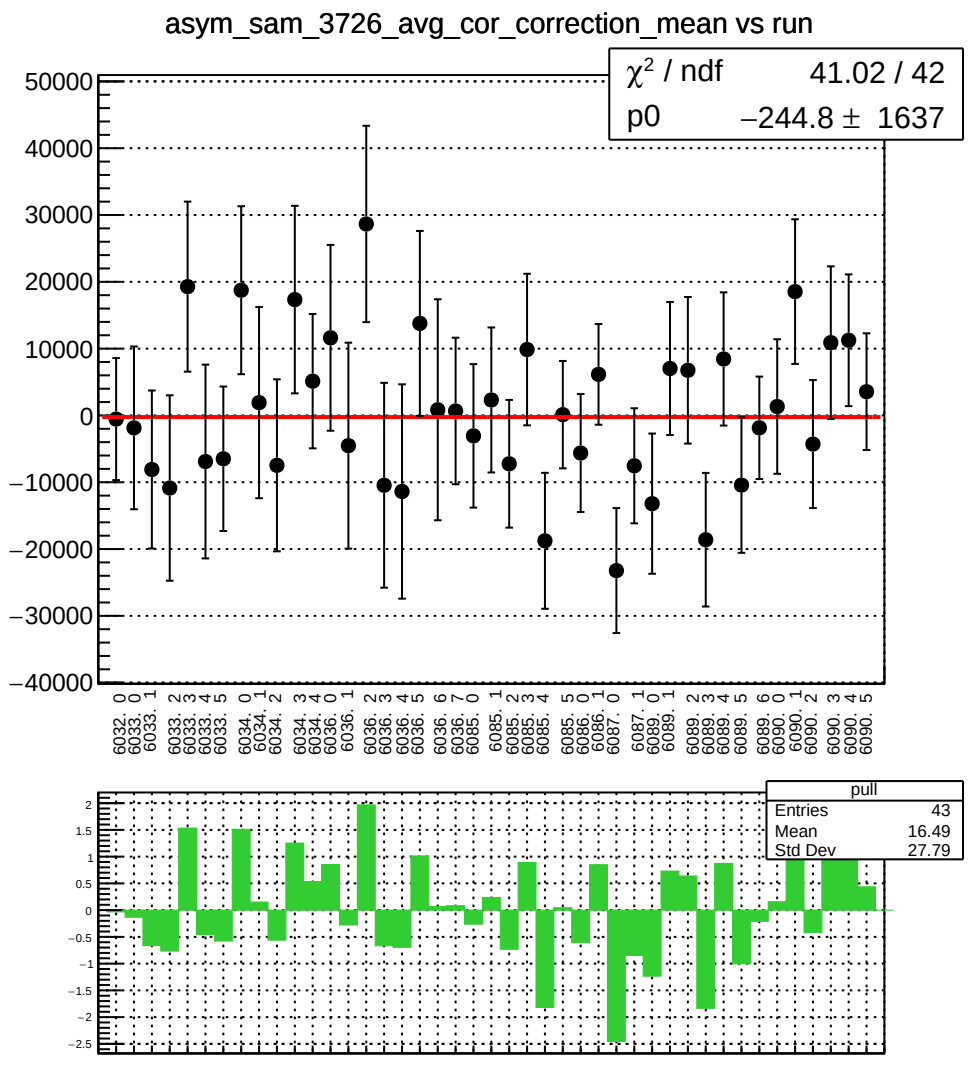

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 41.02 / 42
p0 −244.8 ± 1637
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.49
Std Dev 27.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03334
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

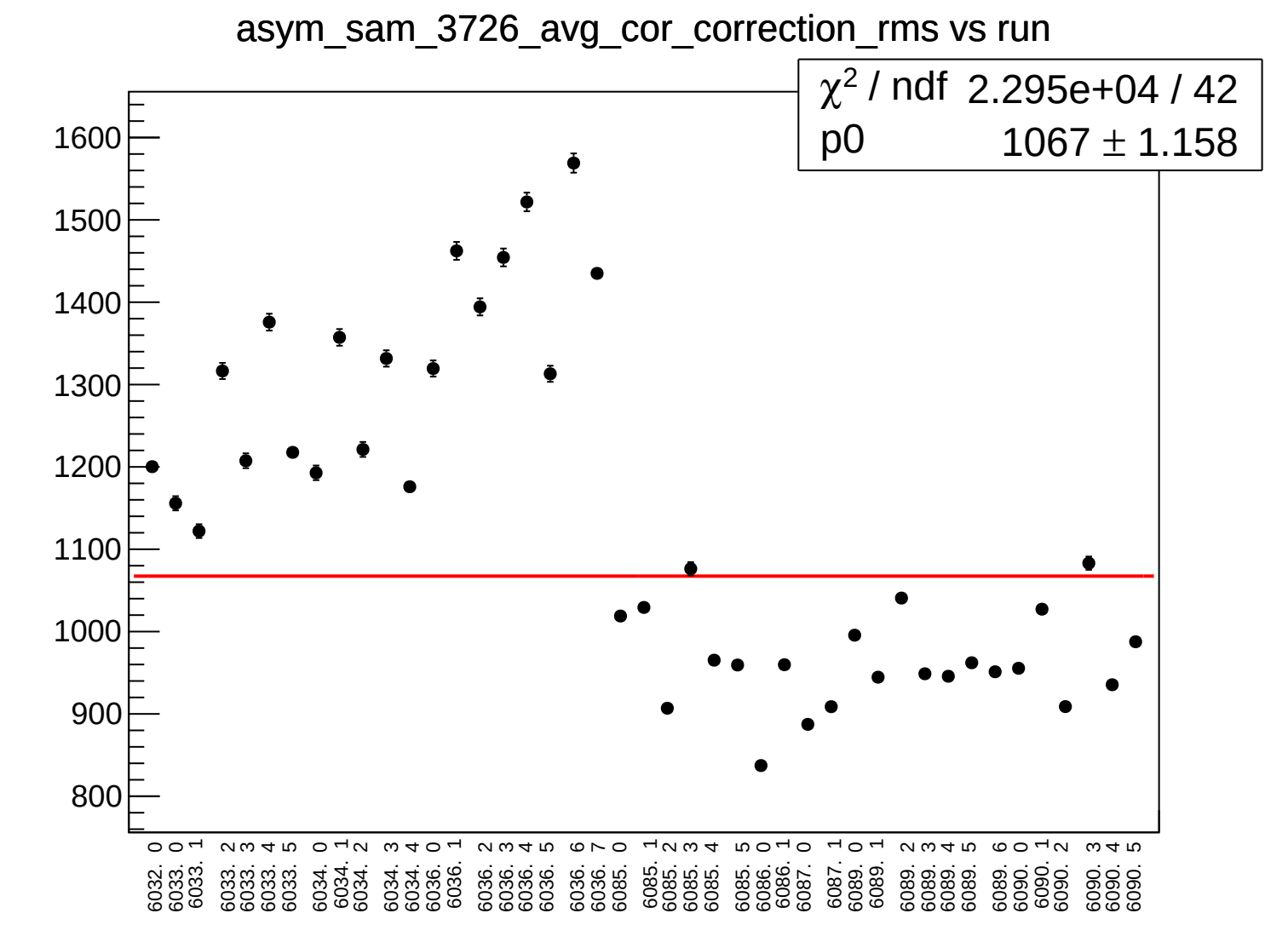

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2.295e+04 / 42
p0 1067 ± 1.158
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

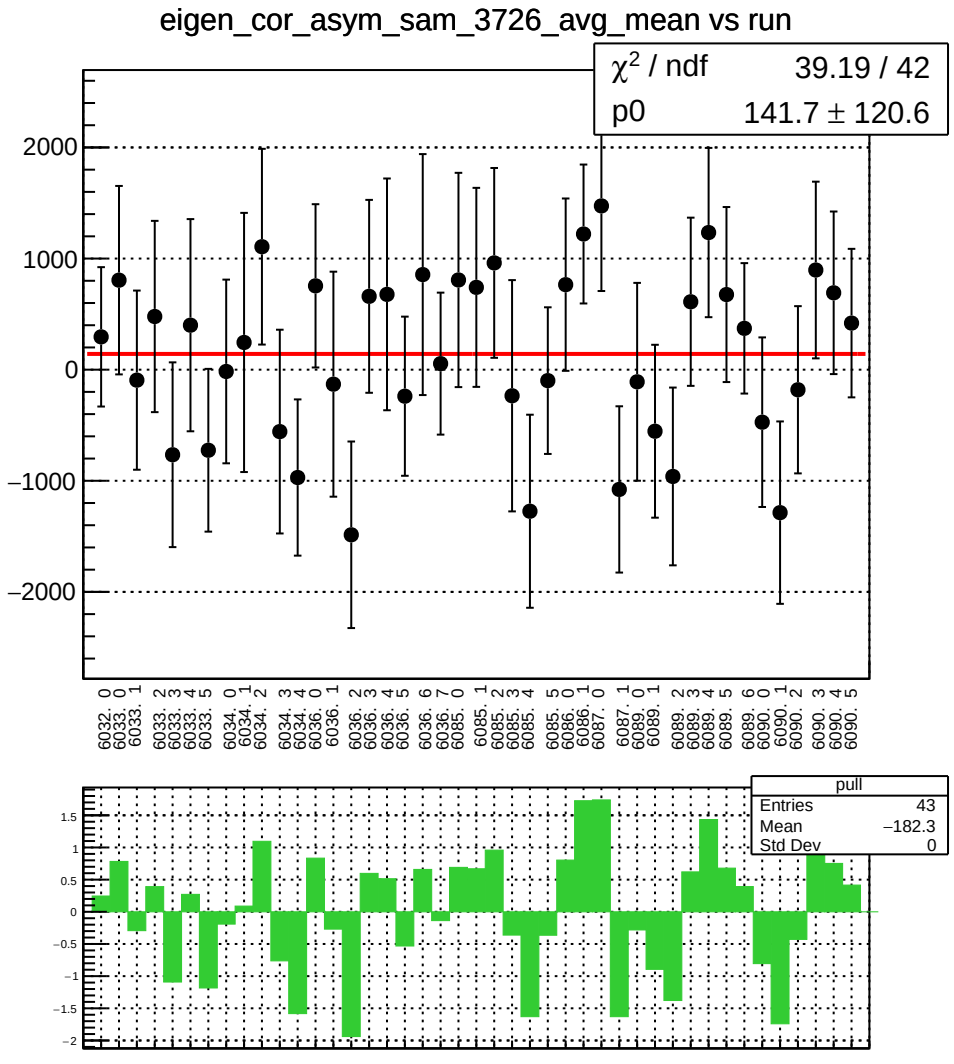

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 39.19 / 42
p0 141.7 ± 120.6
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −182.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

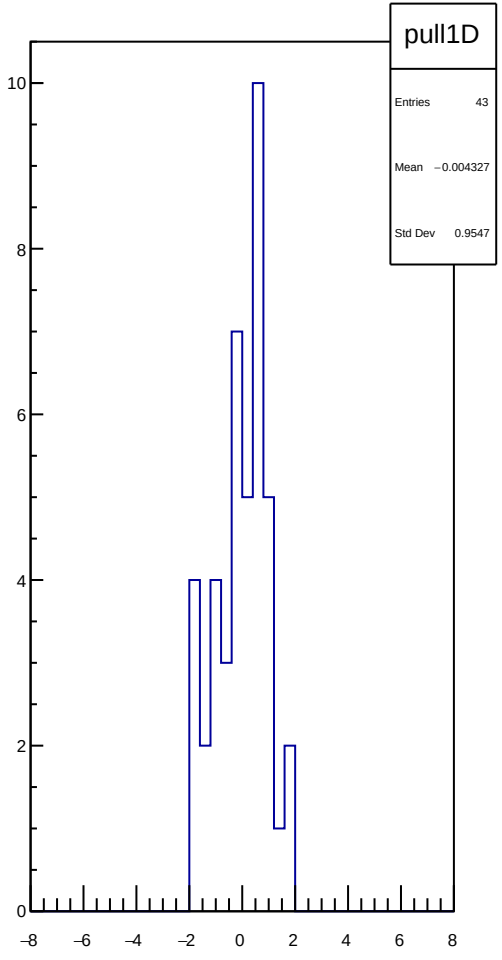

pull1D
Entries 43
Mean −0.004327
Std Dev 0.9547
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

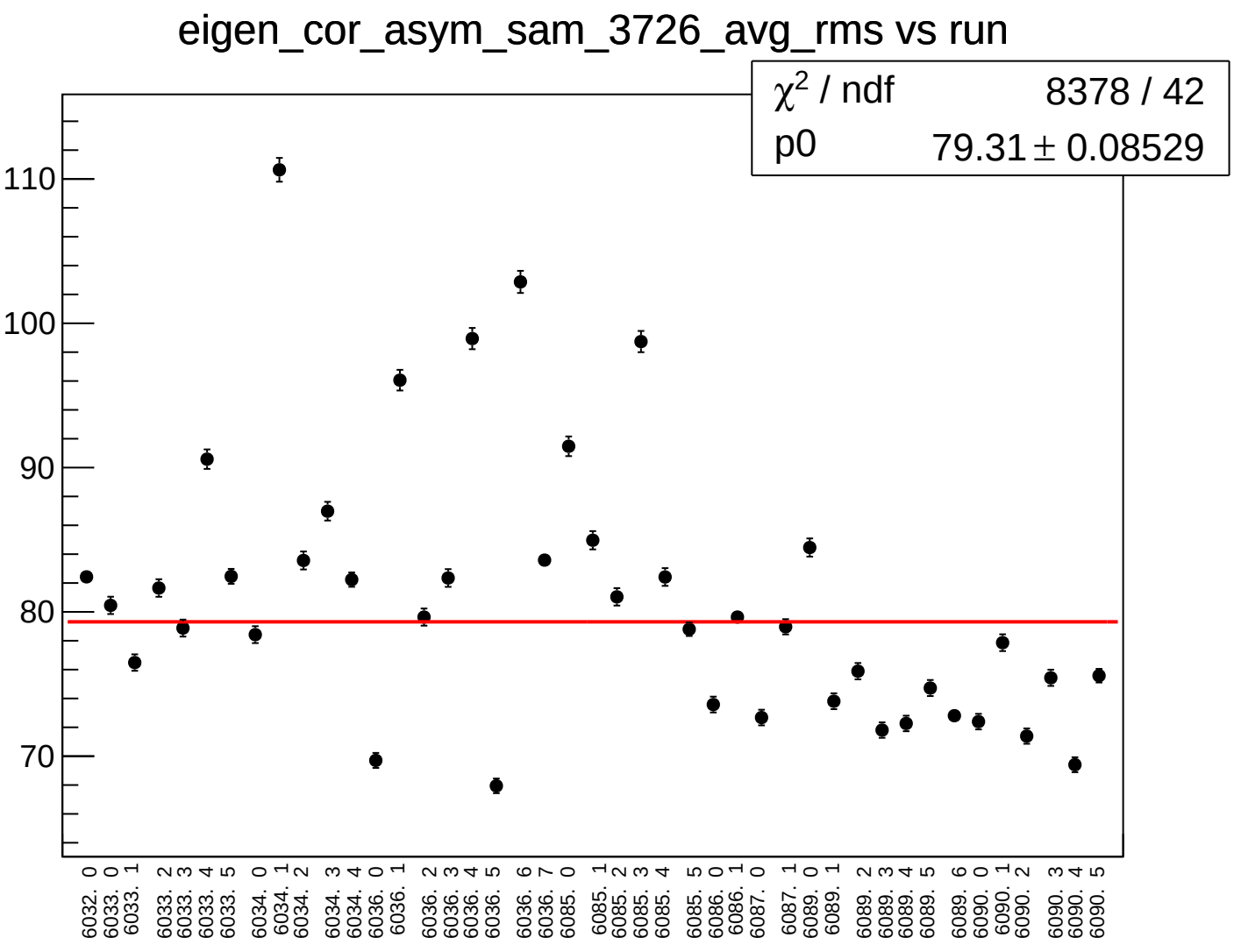

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 8378 / 42
p0 79.31 ± 0.08529
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

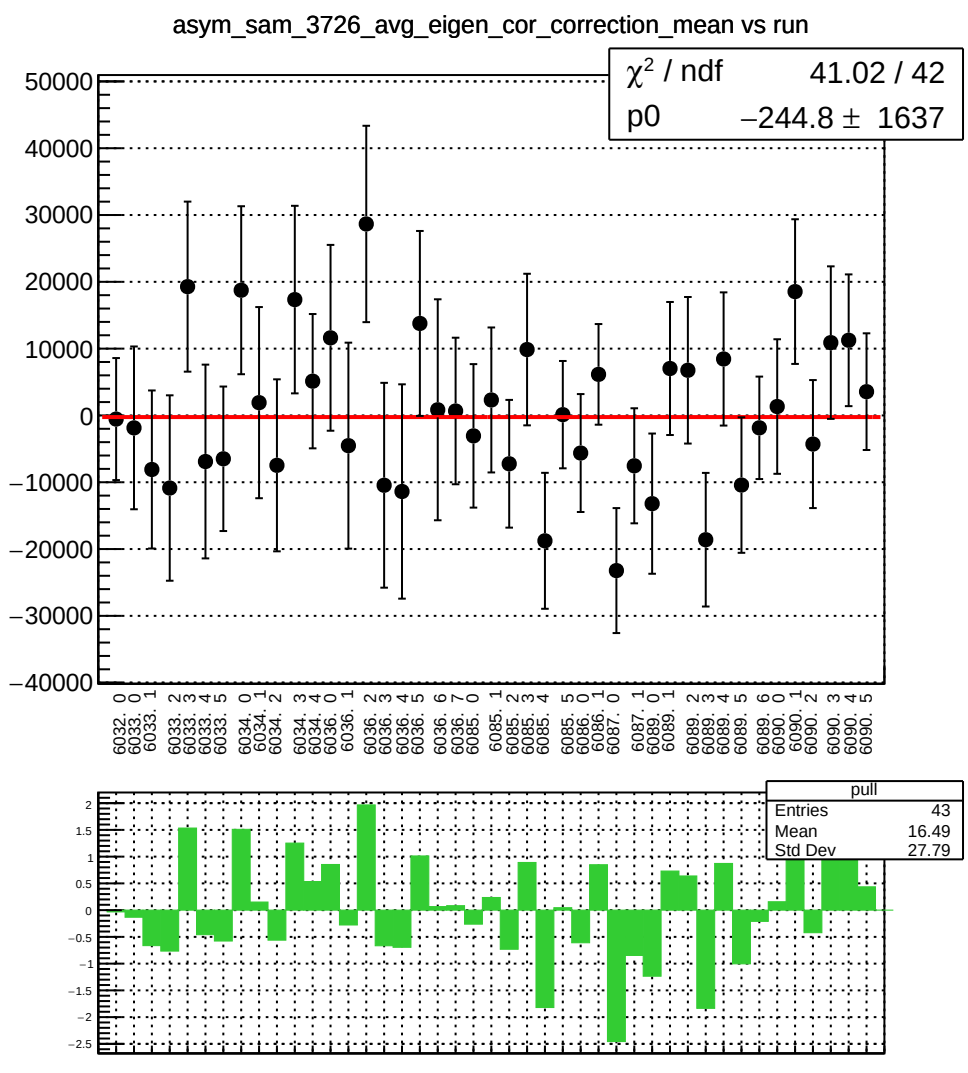

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 41.02 / 42
p0 −244.8 ± 1637
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.49
Std Dev 27.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03334
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

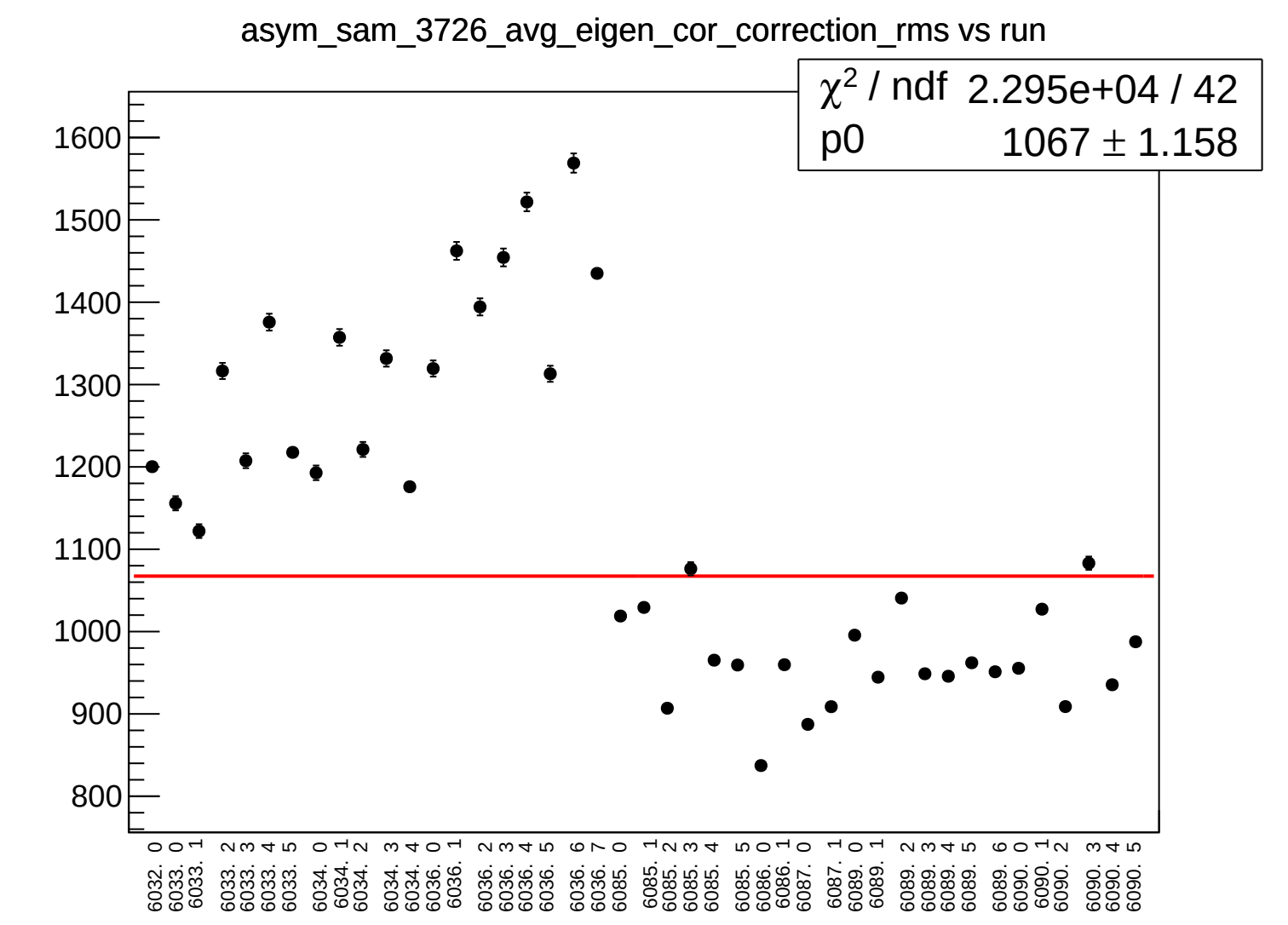

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2.295e+04 / 42
p0 1067 ± 1.158
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

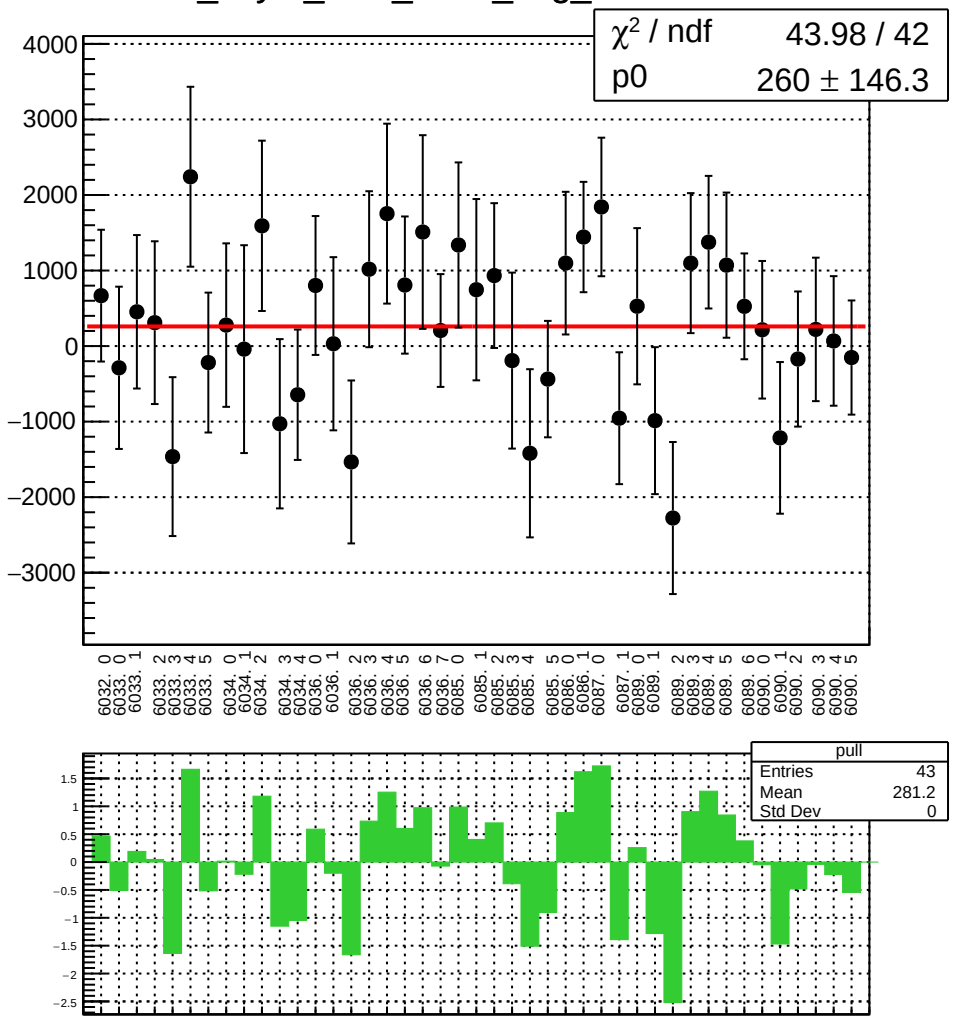

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 39.19 / 42
p0 141.7 ± 120.6
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −182.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

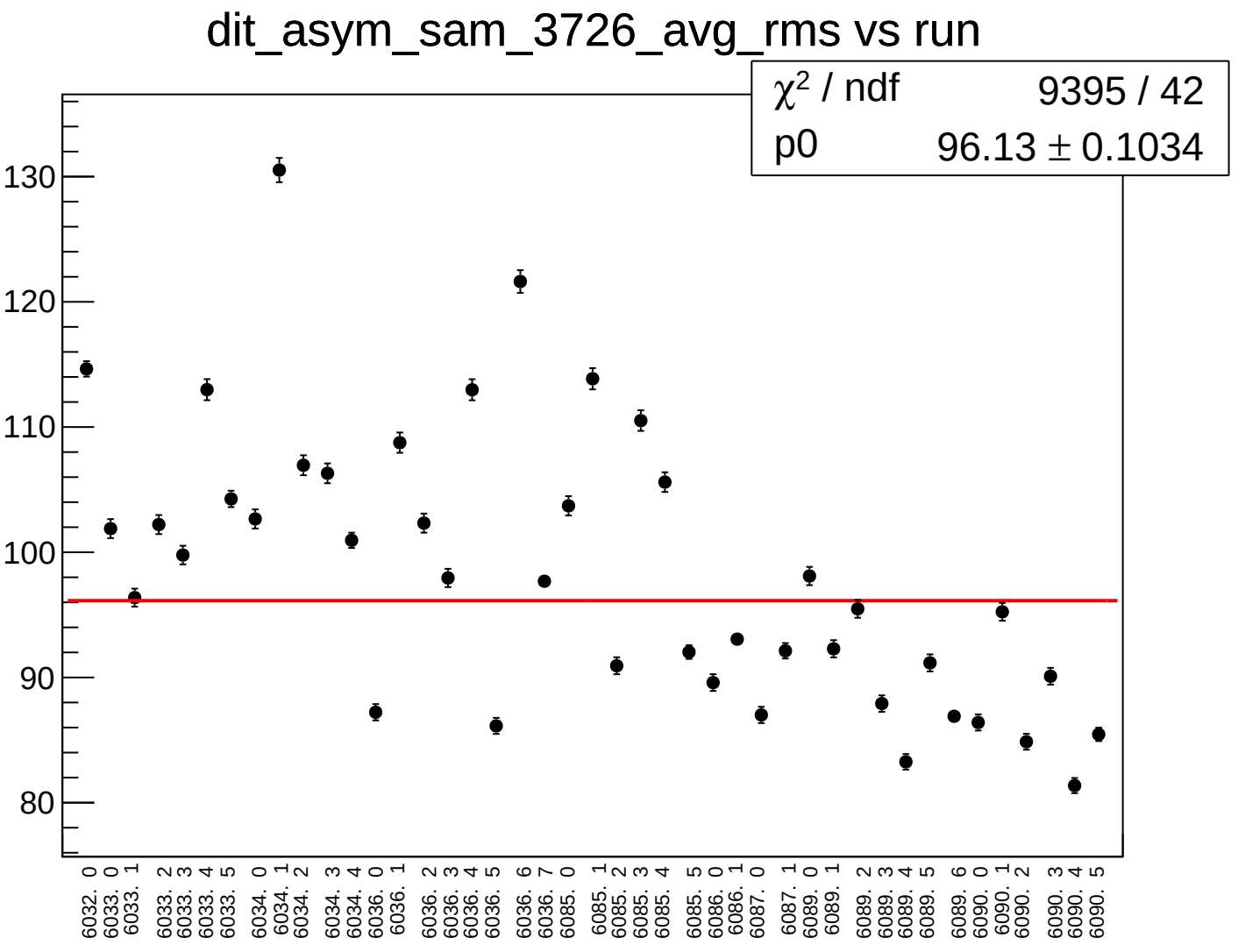

pull1D
Entries 43
Mean −0.004327
Std Dev 0.9547
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

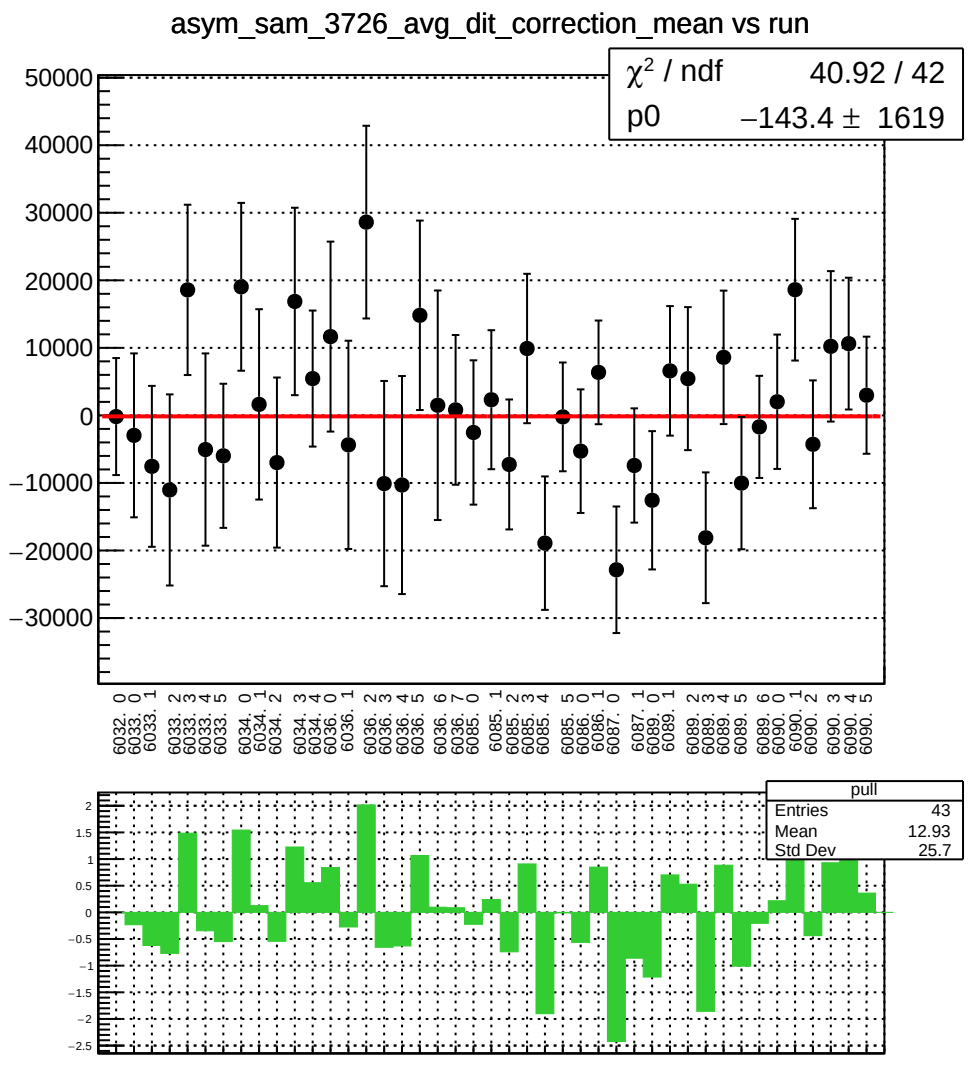

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8378 / 42
p0 79.31 ± 0.08529
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

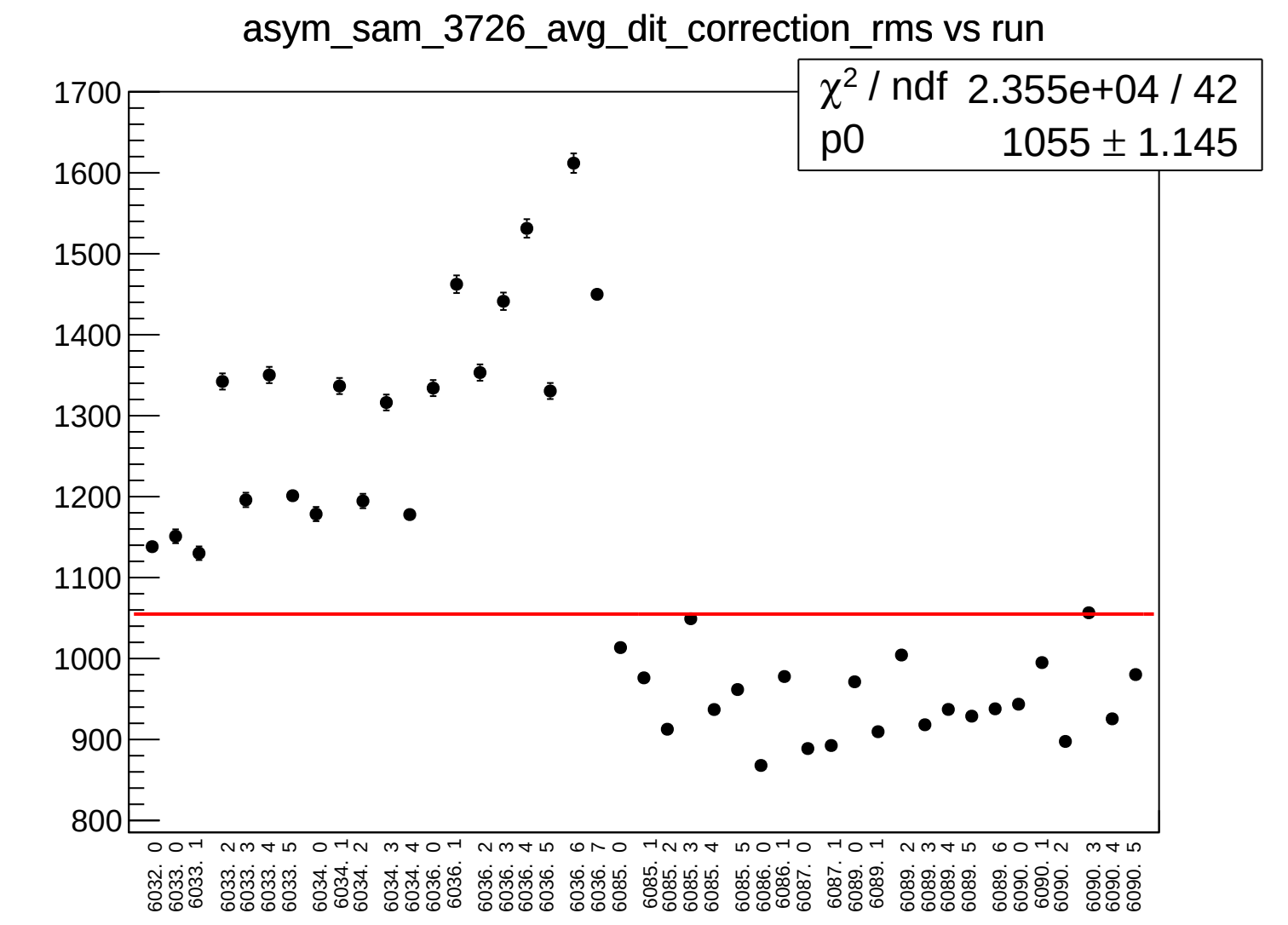

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.02 / 42
p0 −244.8 ± 1637
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.49
Std Dev 27.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03334
Std Dev 0.9762
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

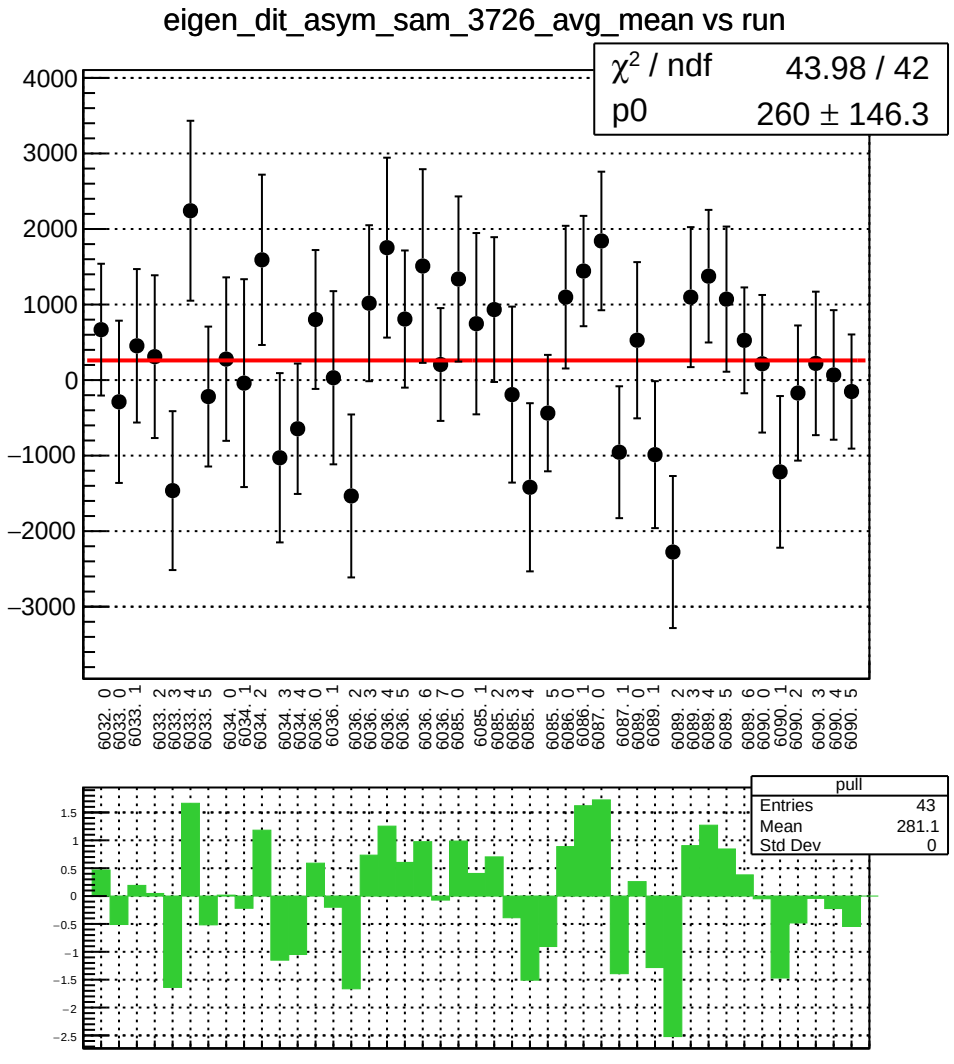

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.295e+04 / 42
p0 1067 ± 1.158
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

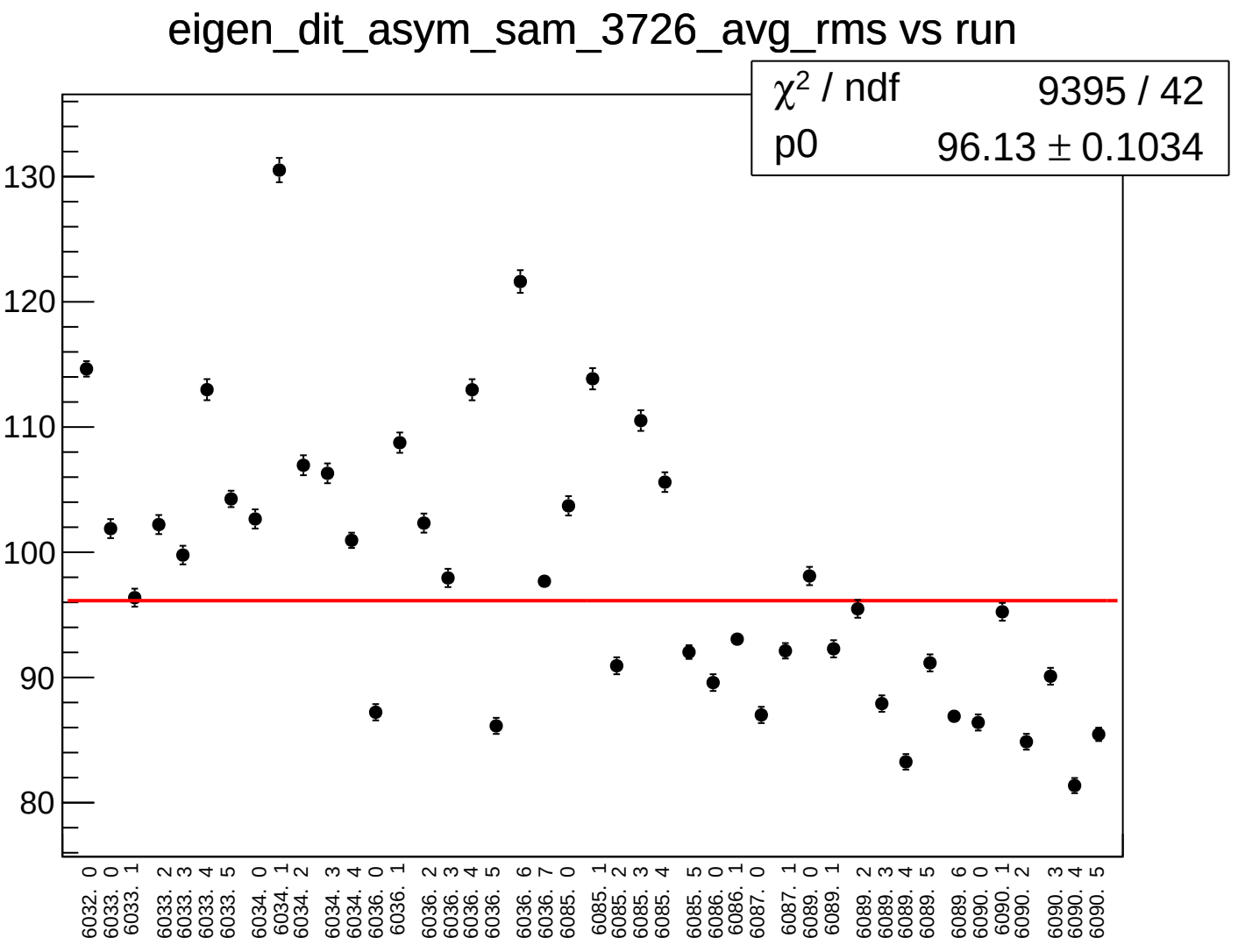

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 43.98 / 42
p0 260 ± 146.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 281.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.00269
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

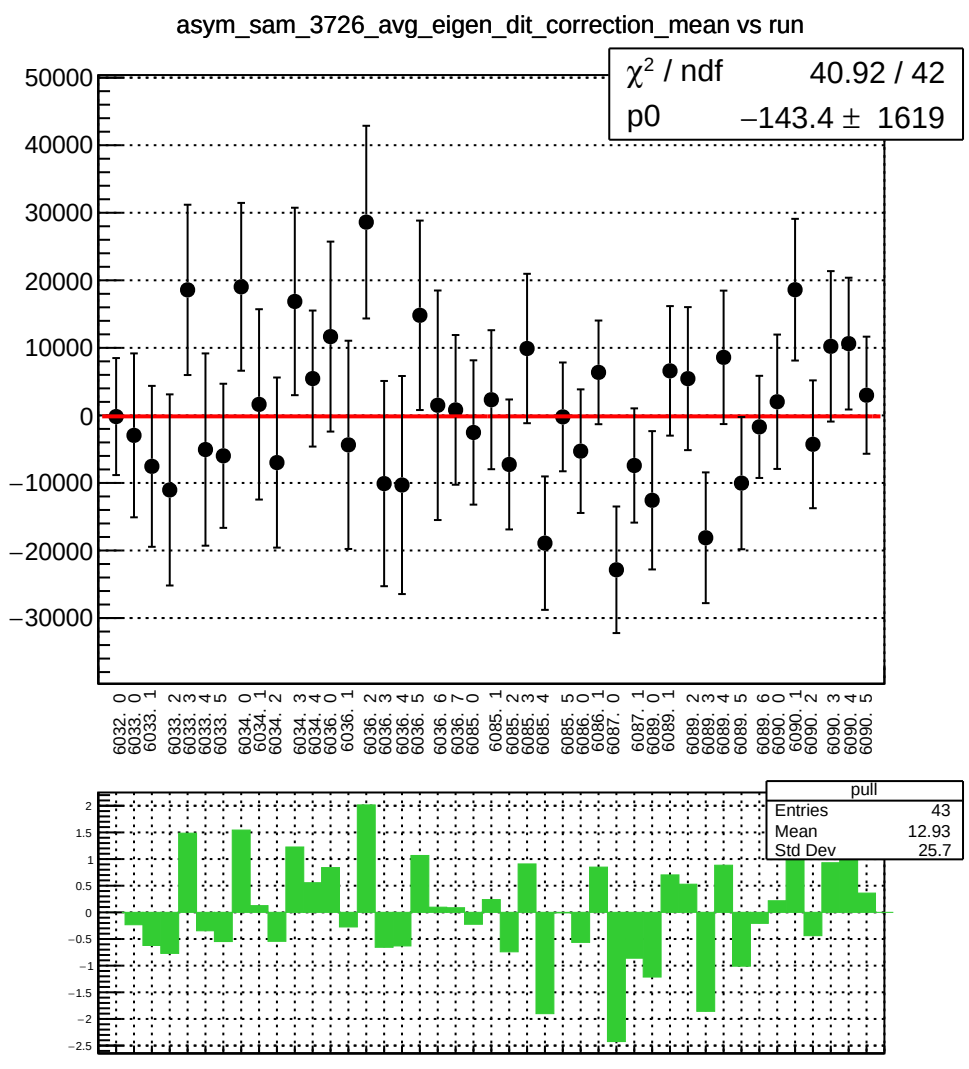

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 9395 / 42
p0 96.13 ± 0.1034
130
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

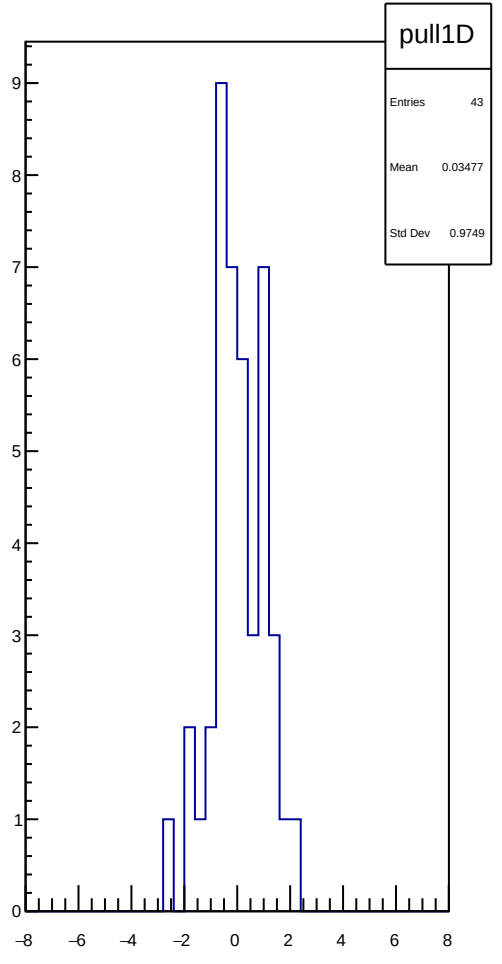

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 40.92 / 42
p0 −143.4 ± 1619
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.93
Std Dev 25.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03477
Std Dev 0.9749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

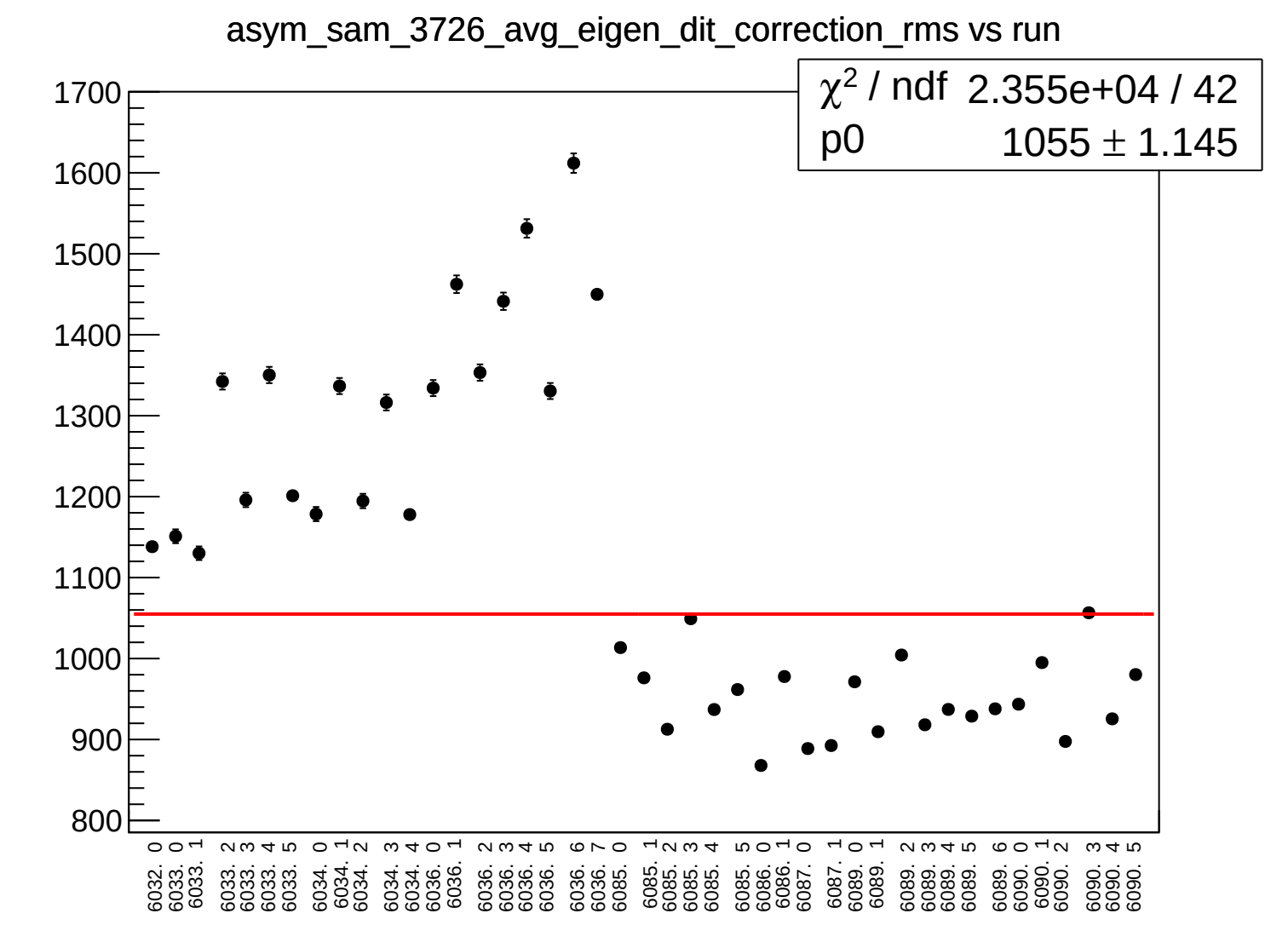

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2.355e+04 / 42
p0 1055 ± 1.145
1700
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

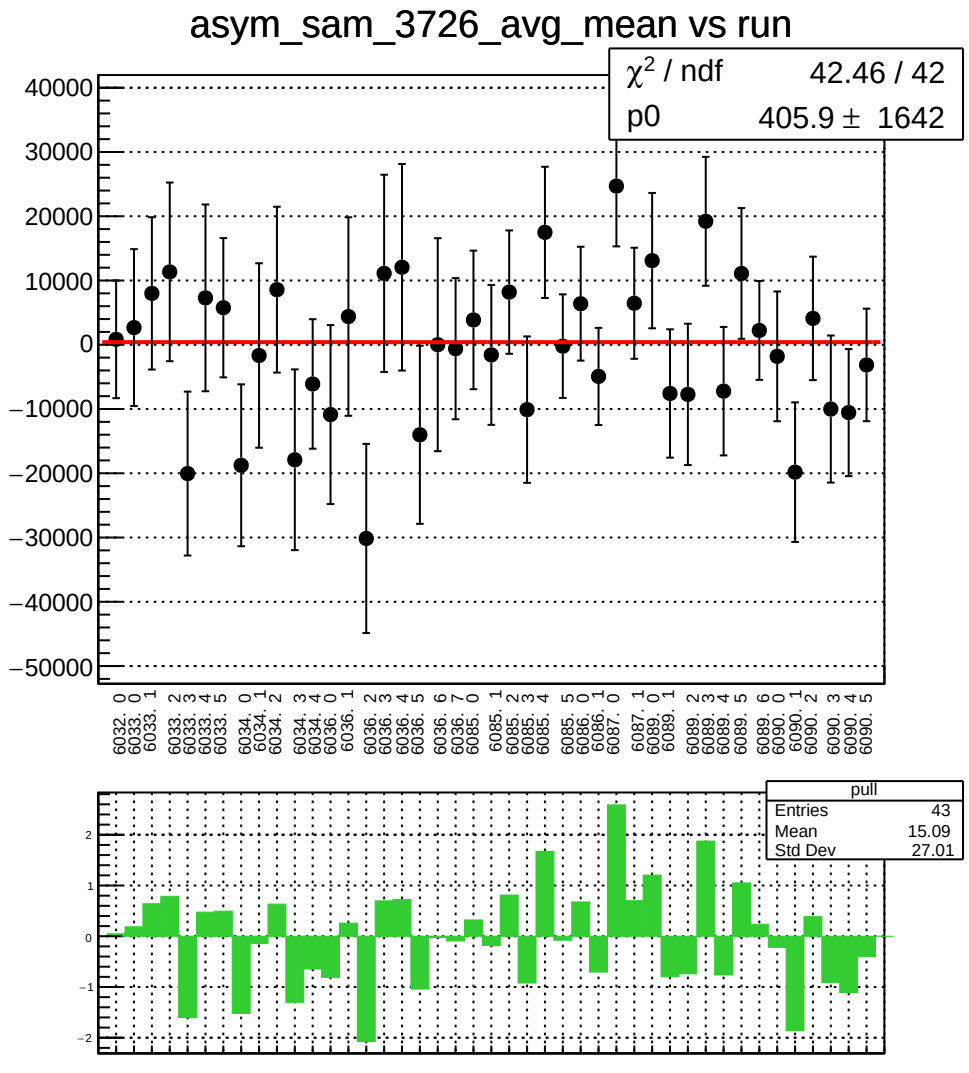

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 43.98 / 42
p0 260 ± 146.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 281.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.002692
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

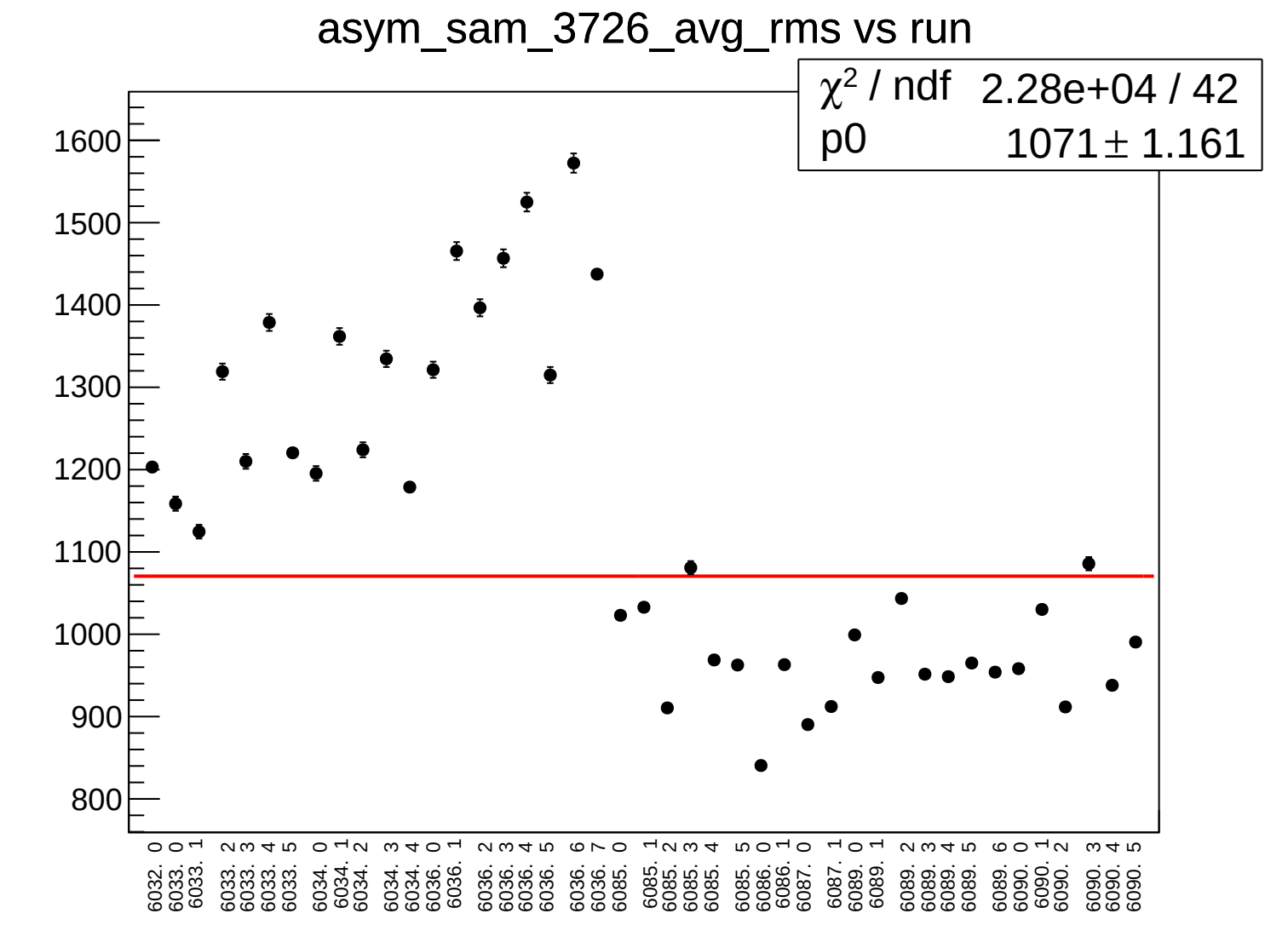

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 9395 / 42
p0 96.13 ± 0.1034
130
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

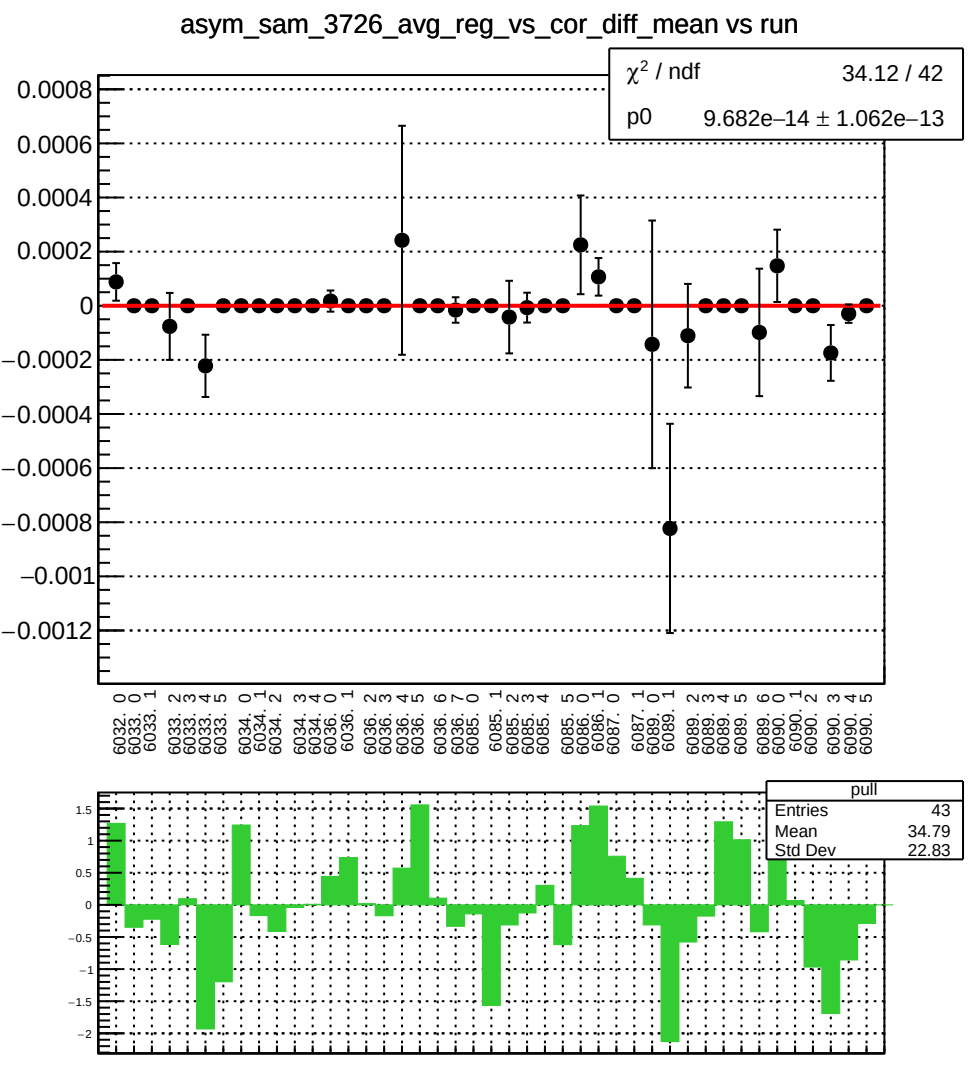

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.92 / 42
p0 −143.4 ± 1619
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.93
Std Dev 25.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

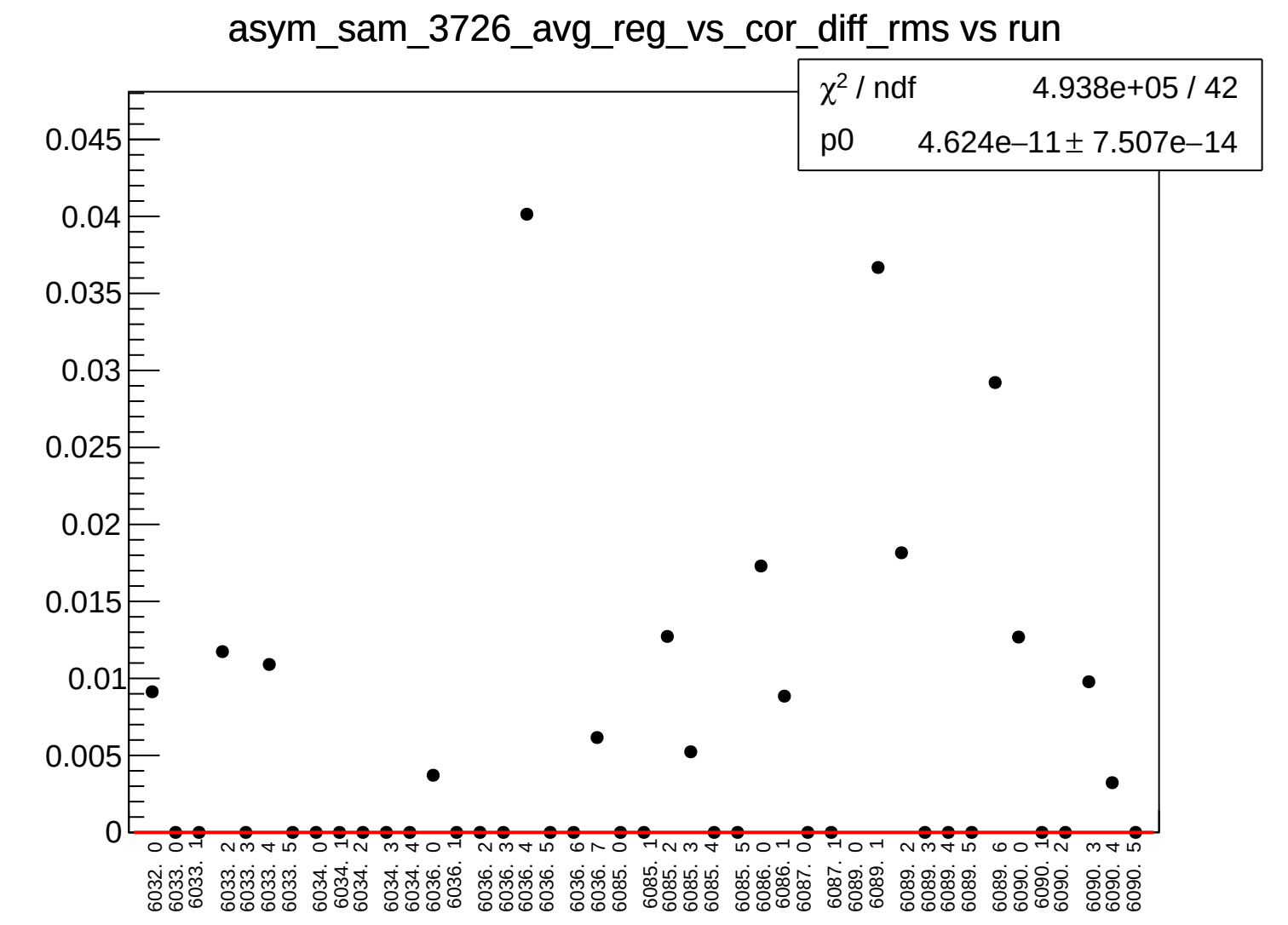

pull1D
Entries 43
Mean 0.03477
Std Dev 0.9749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

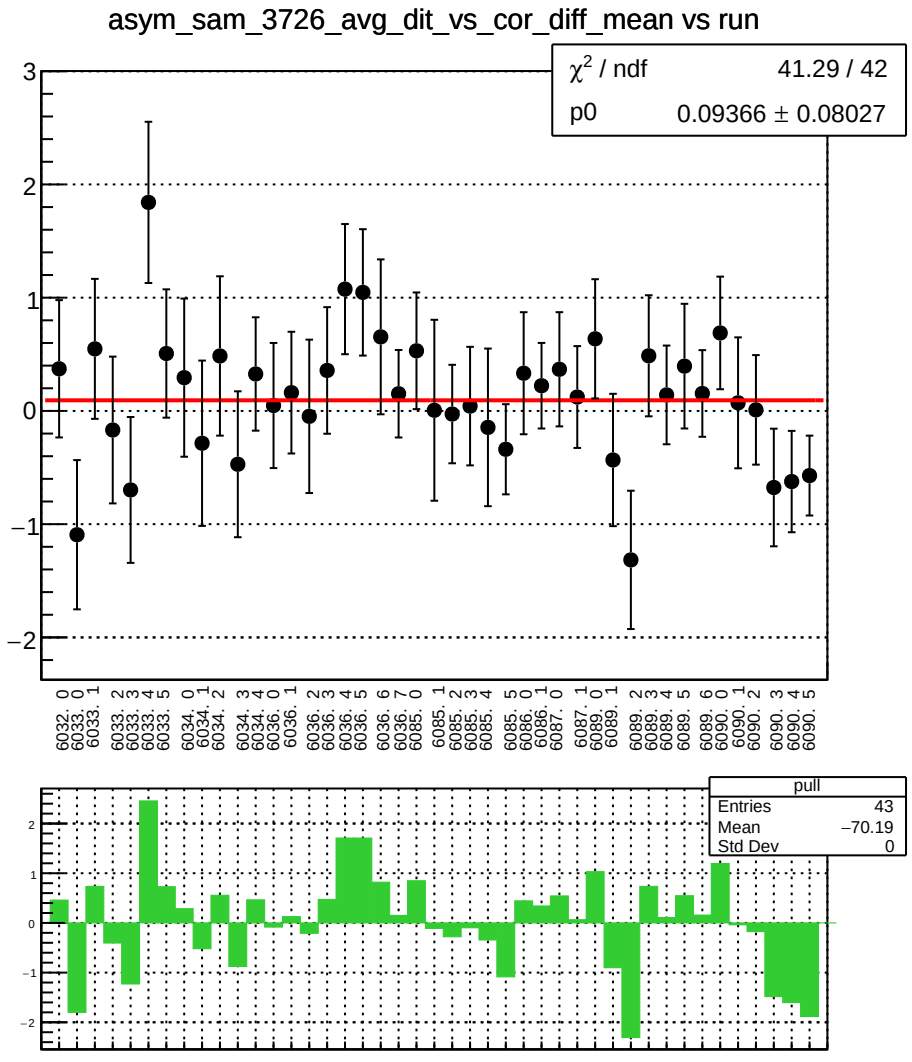

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.355e+04 / 42
p0 1055 ± 1.145
1700
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

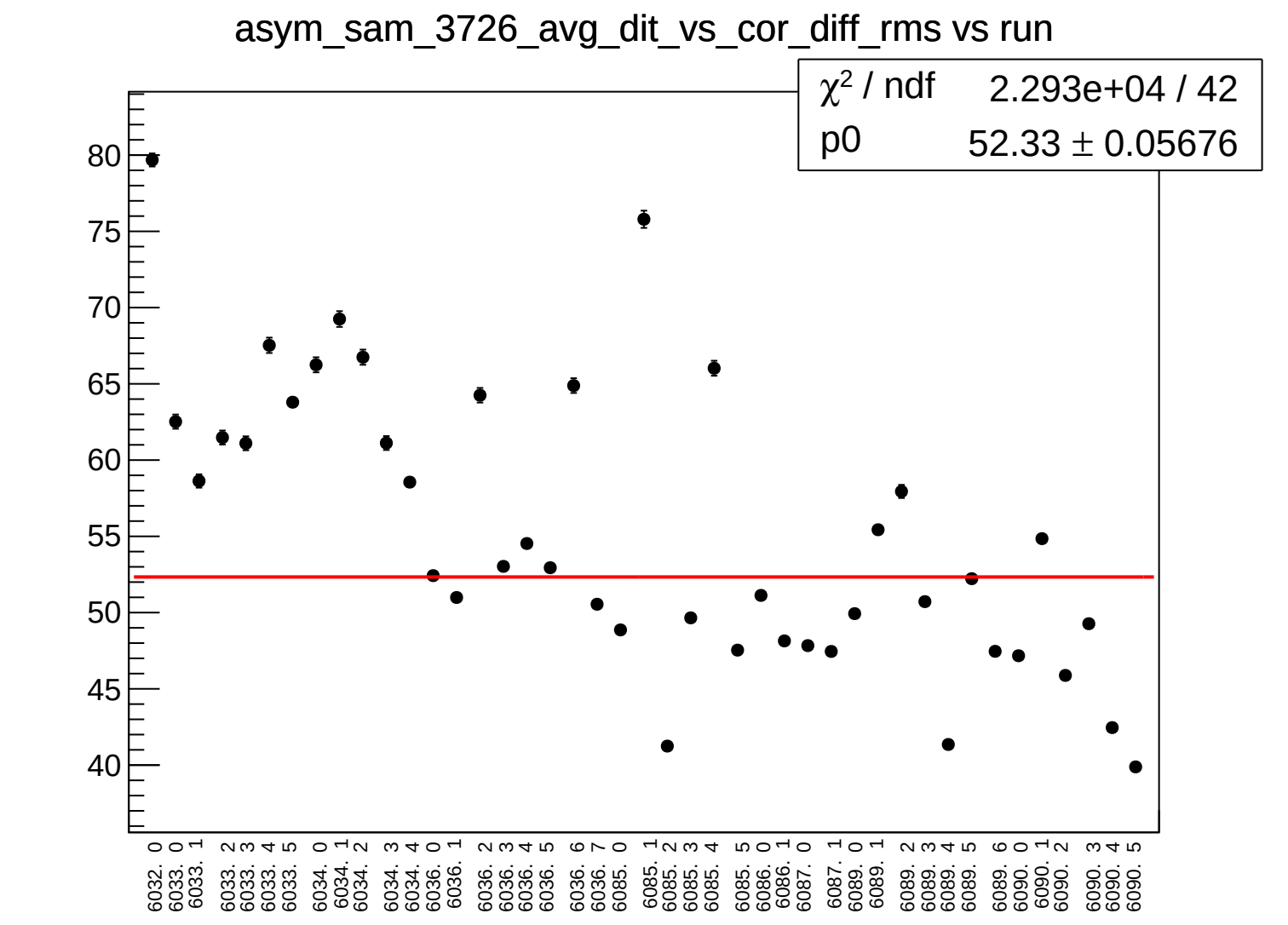

asym_sam_3726_avg_mean vs run
χ² / ndf 42.46 / 42
p0 405.9 ± 1642
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.09
Std Dev 27.01
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03456
Std Dev 0.9931
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

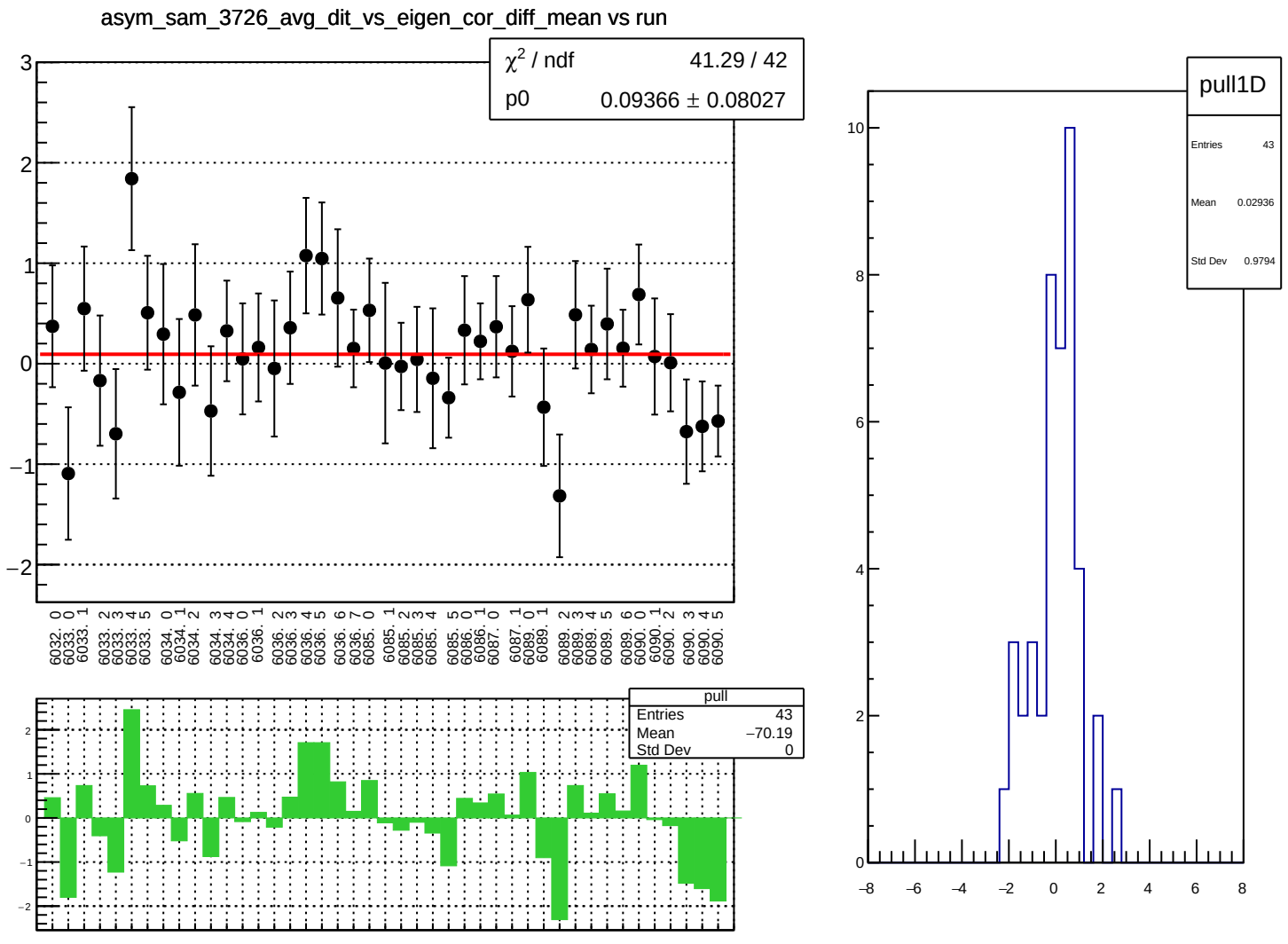

asym_sam_3726_avg_rms vs run
χ² / ndf 2.28e+04 / 42
p0 1071 ± 1.161
1600
1500
1400
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

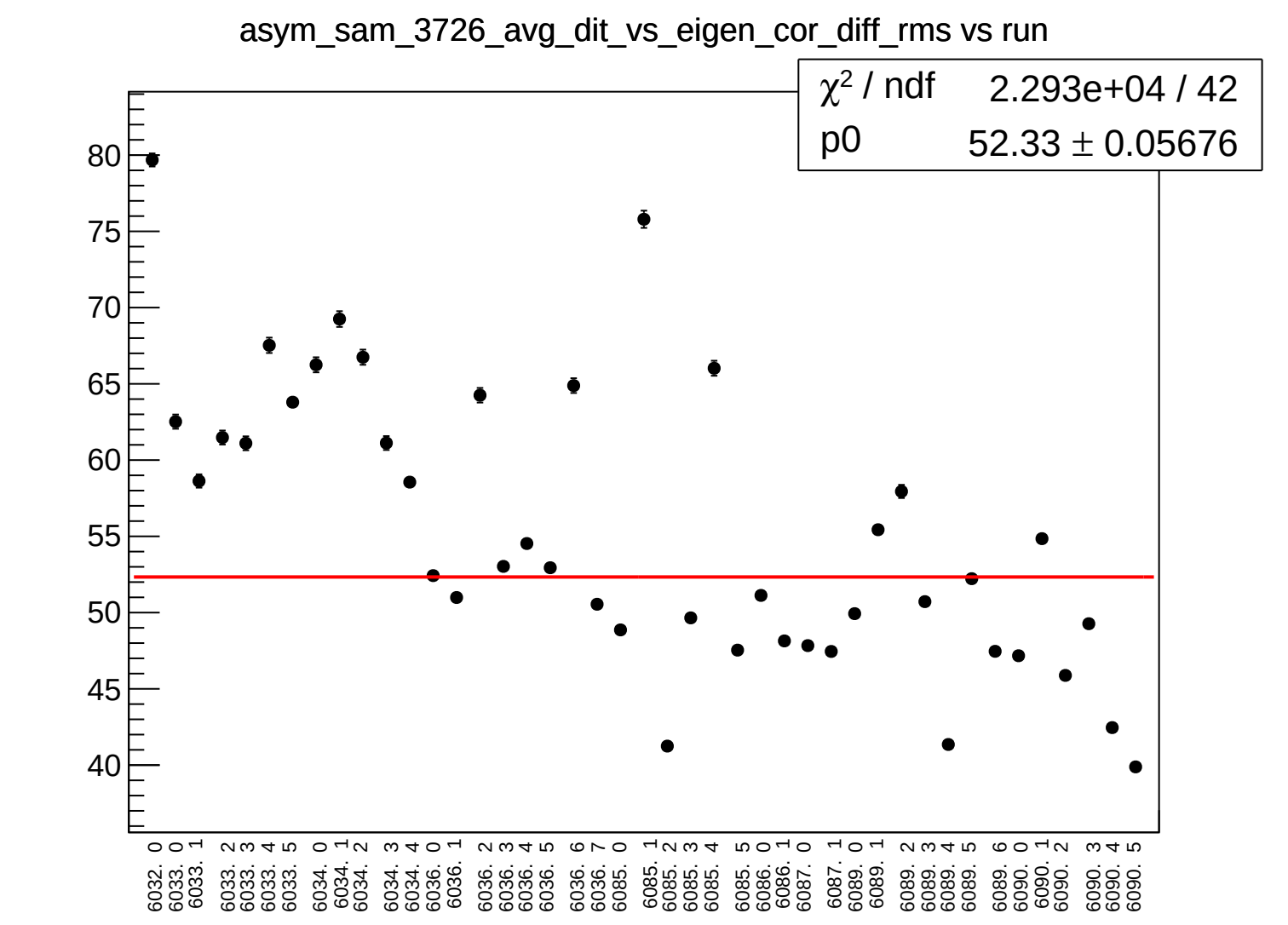

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.12 / 42
p0 9.682e−14 ± 1.062e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 34.79
Std Dev 22.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.04291
Std Dev 0.8897
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

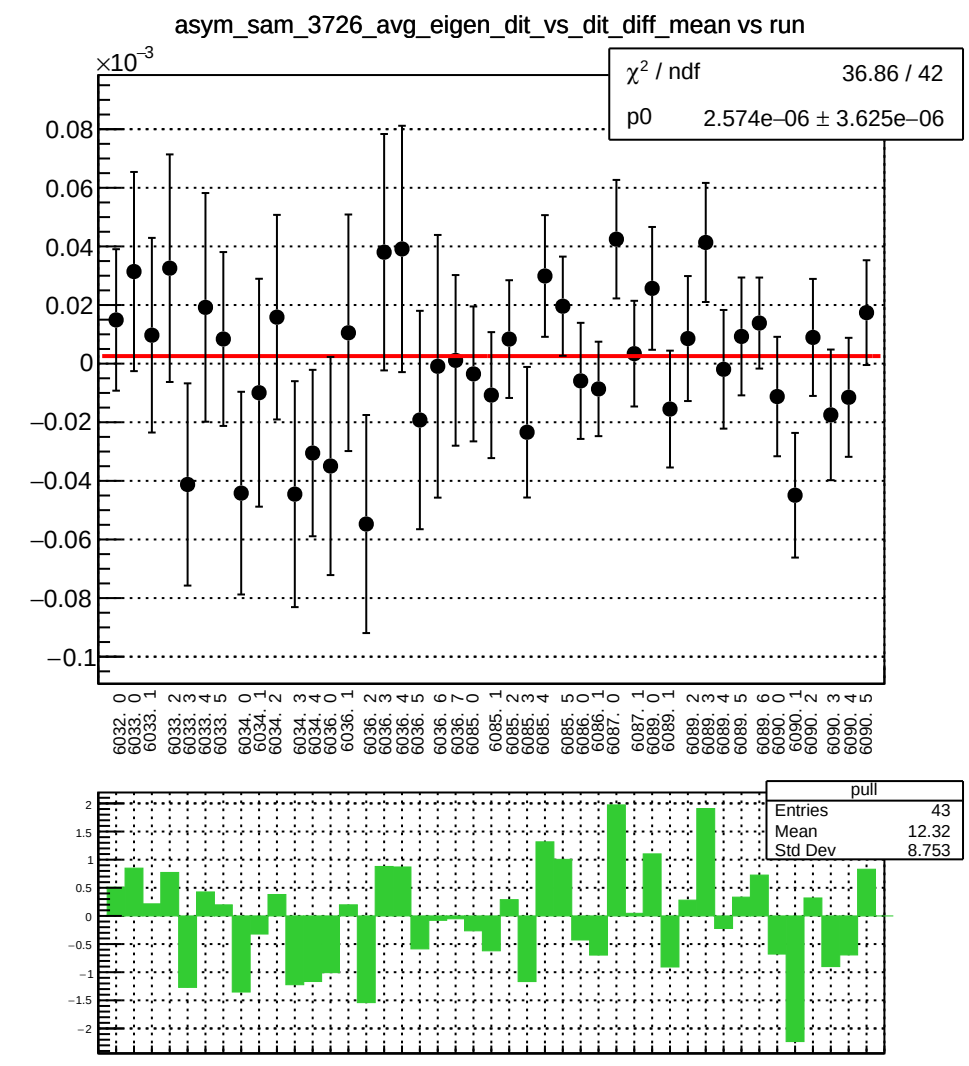

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.938e+05 / 42
p0 4.624e−11 ± 7.507e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

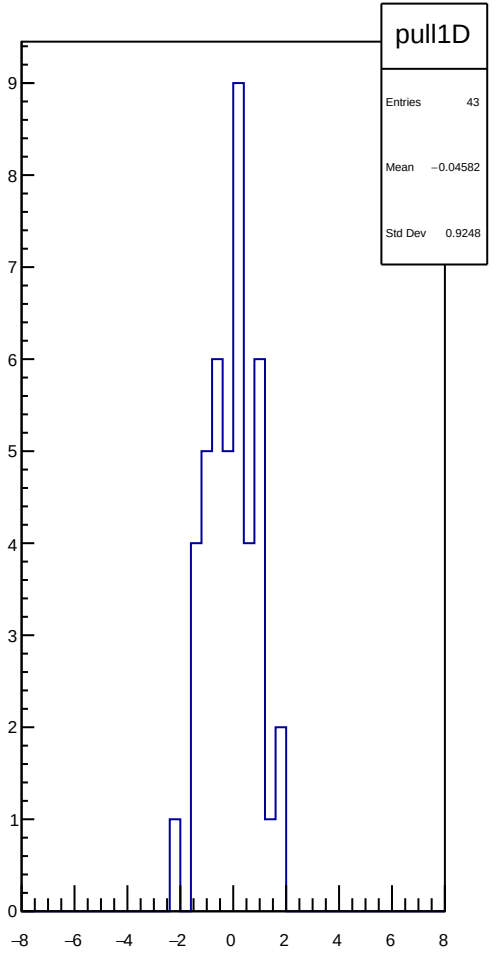

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.29 / 42
p0 0.09366 ± 0.08027
pull
Entries 43
Mean −70.19
Std Dev 0
pull1D
Entries 43
Mean 0.02936
Std Dev 0.9794

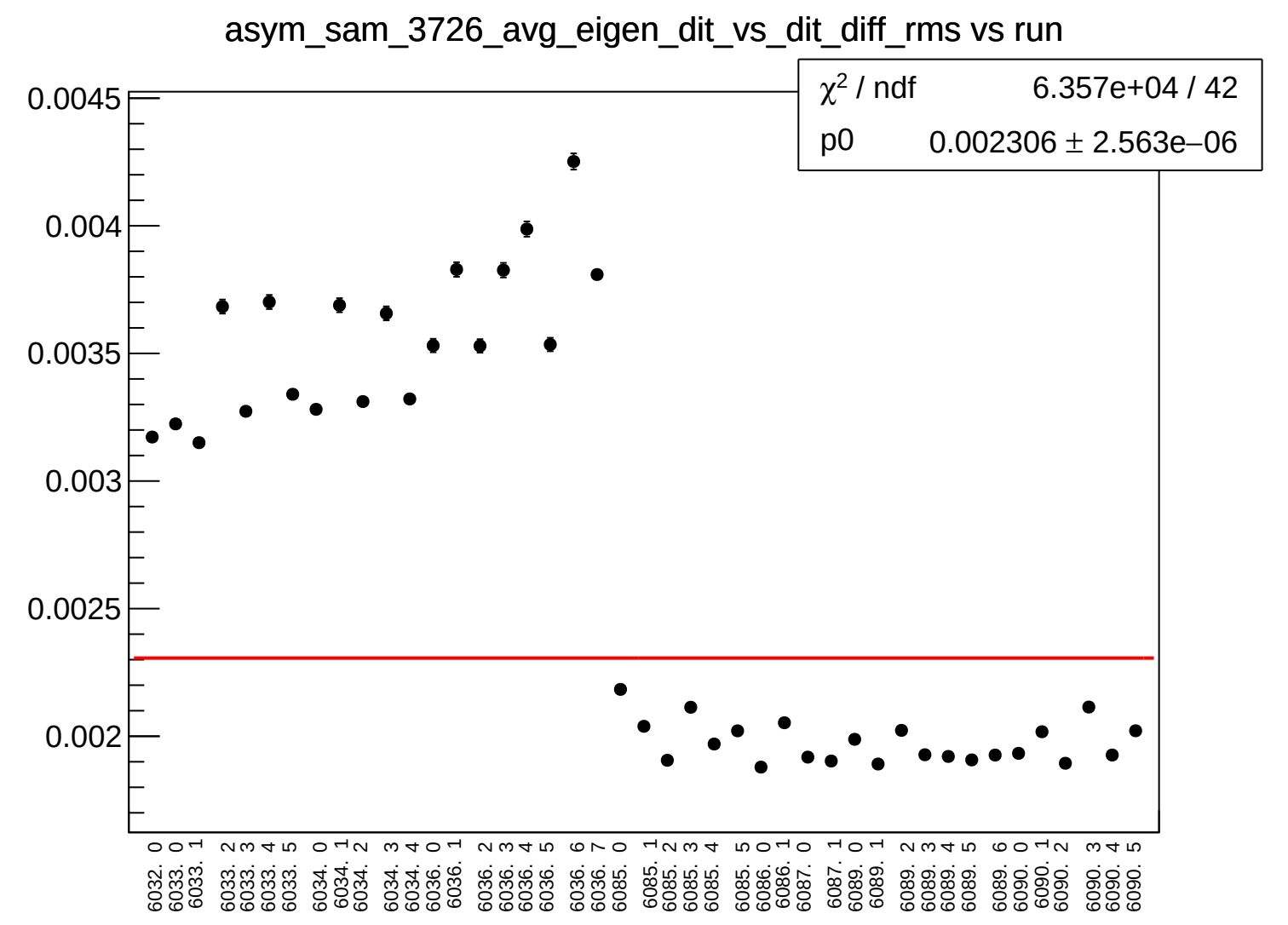

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.293e+04 / 42
p0 52.33 ± 0.05676
80
75
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

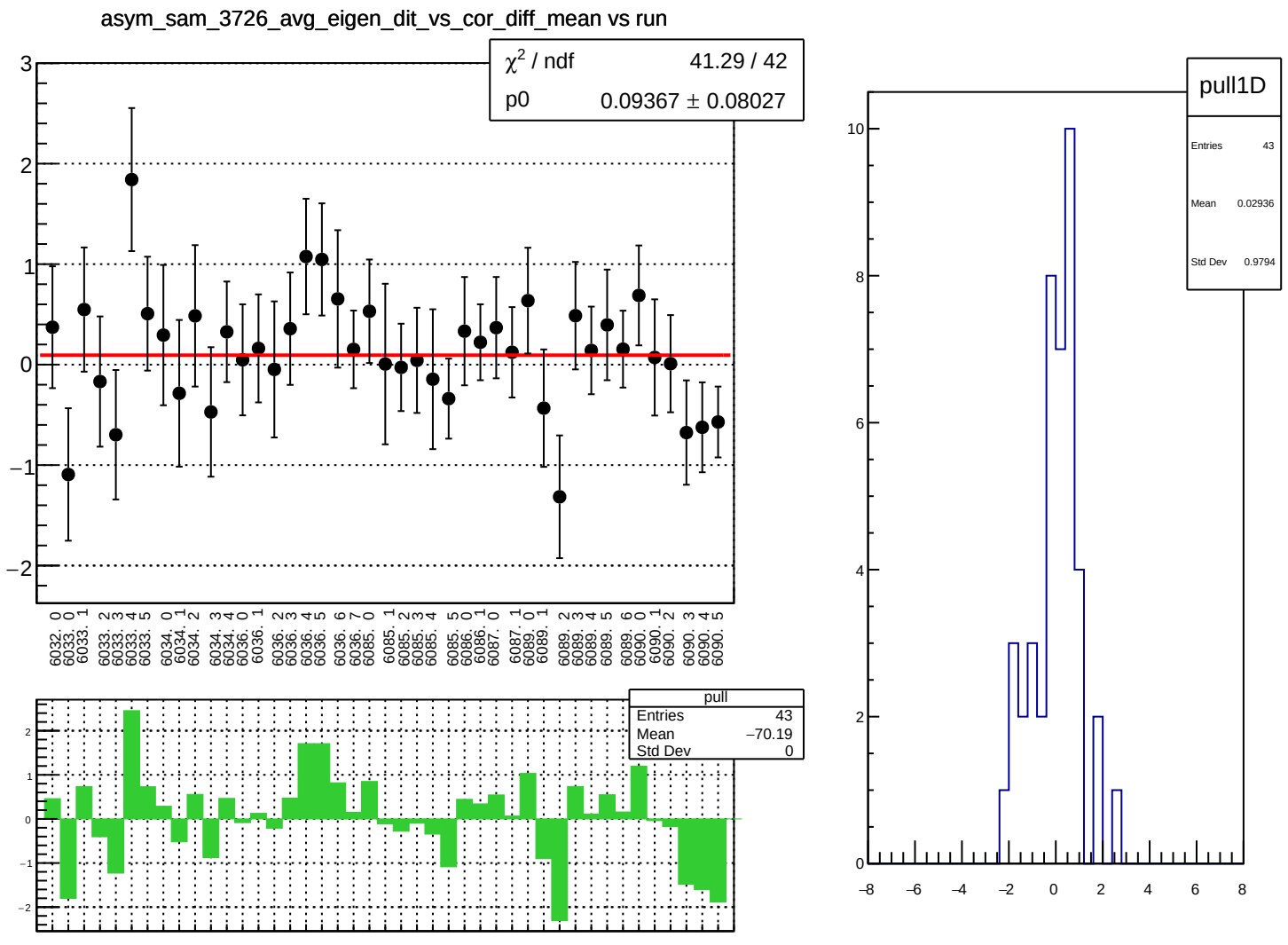

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.29 / 42
p0 0.09366 ± 0.08027
pull
Entries 43
Mean −70.19
Std Dev 0
pull1D
Entries 43
Mean 0.02936
Std Dev 0.9794

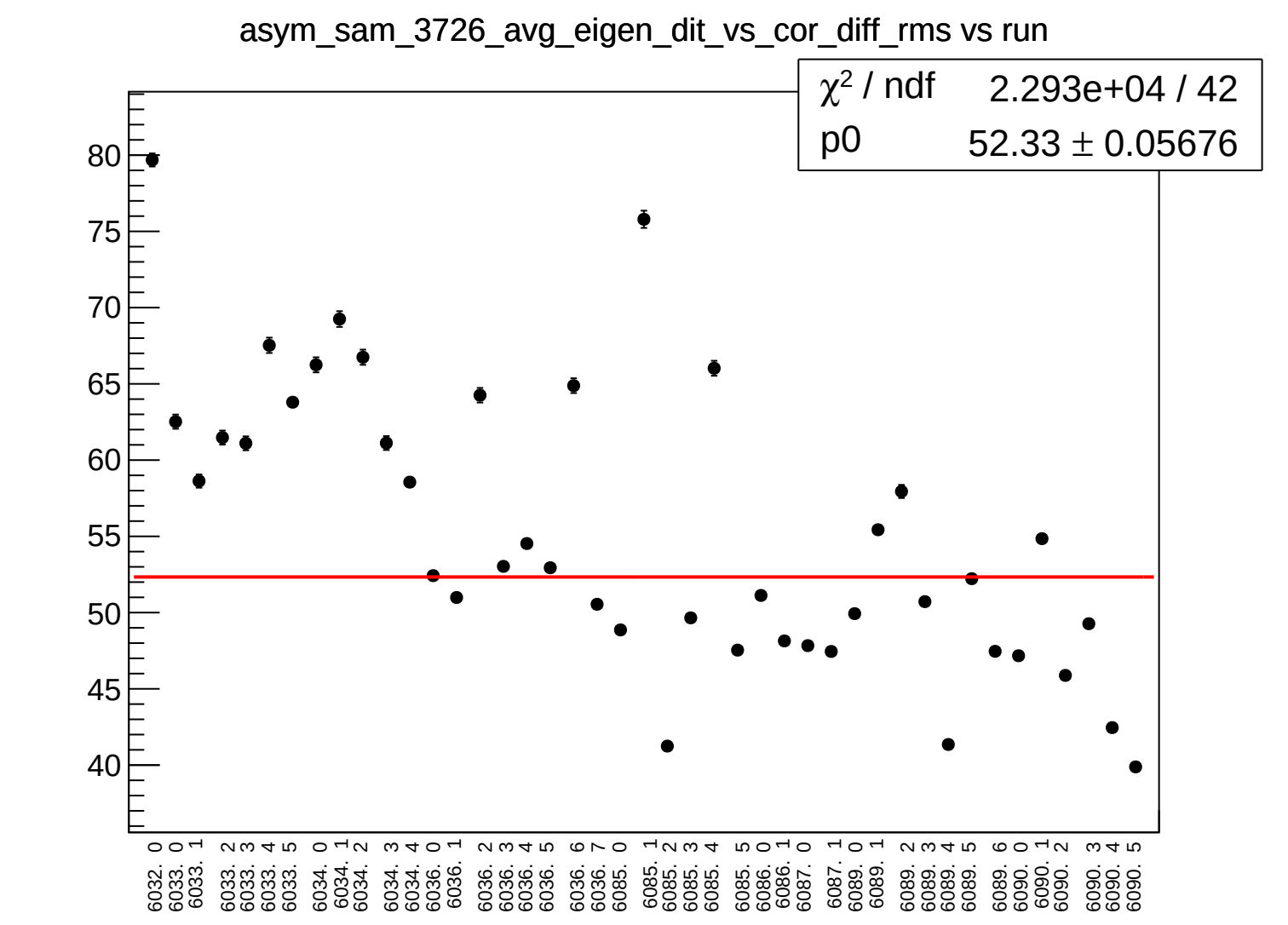

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.293e+04 / 42
p0 52.33 ± 0.05676
80
75
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

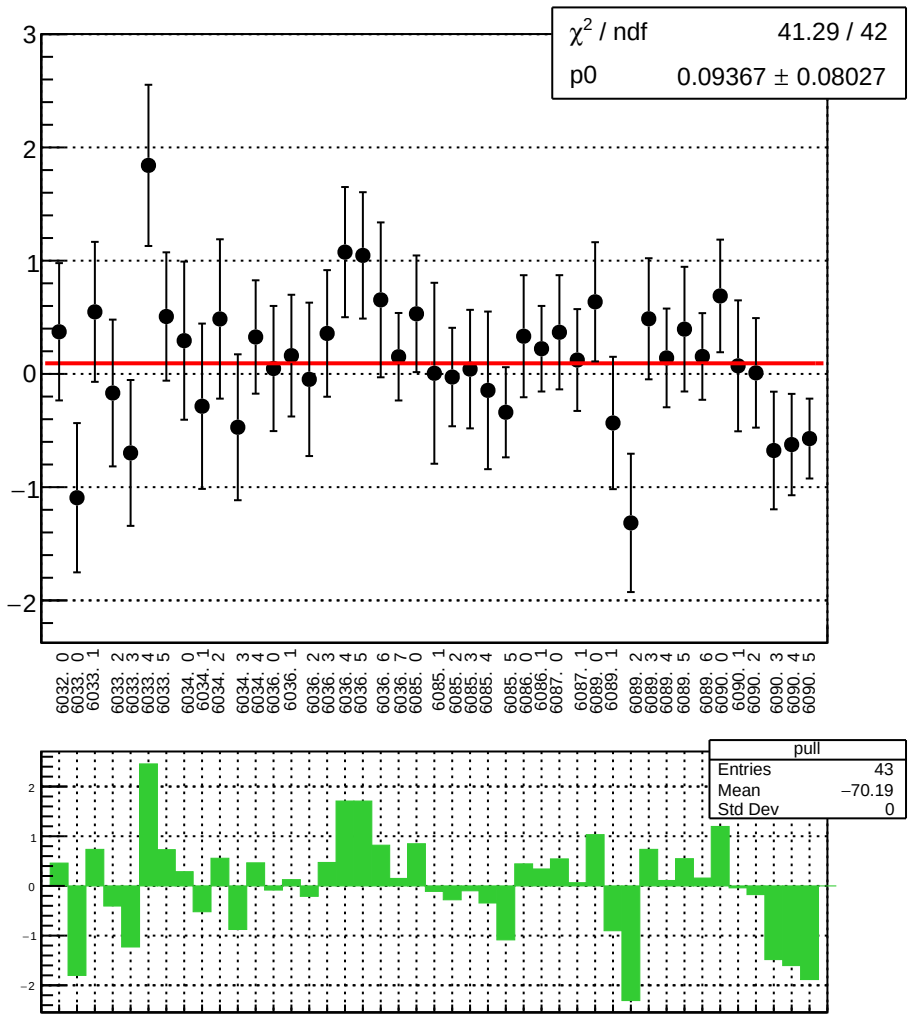

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.86 / 42
p0 2.574e−06 ± 3.625e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.32
Std Dev 8.753
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

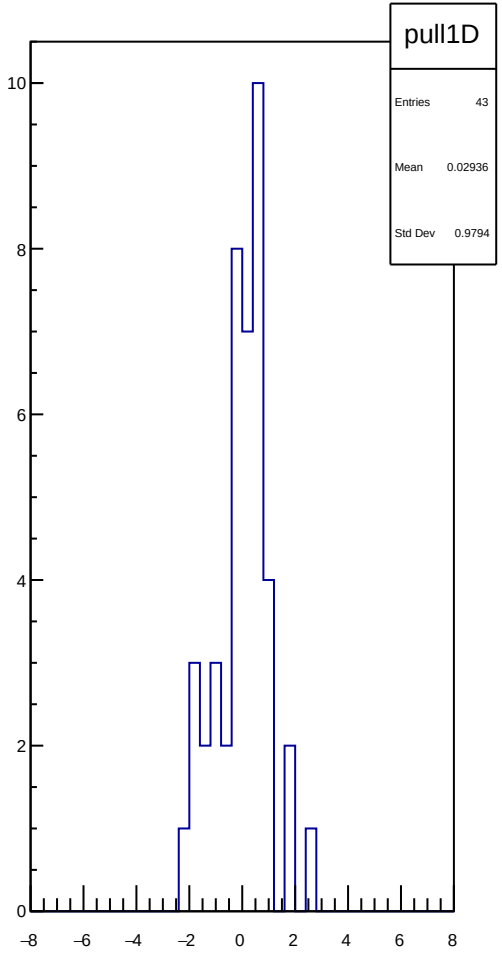

pull1D
Entries 43
Mean −0.04582
Std Dev 0.9248
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

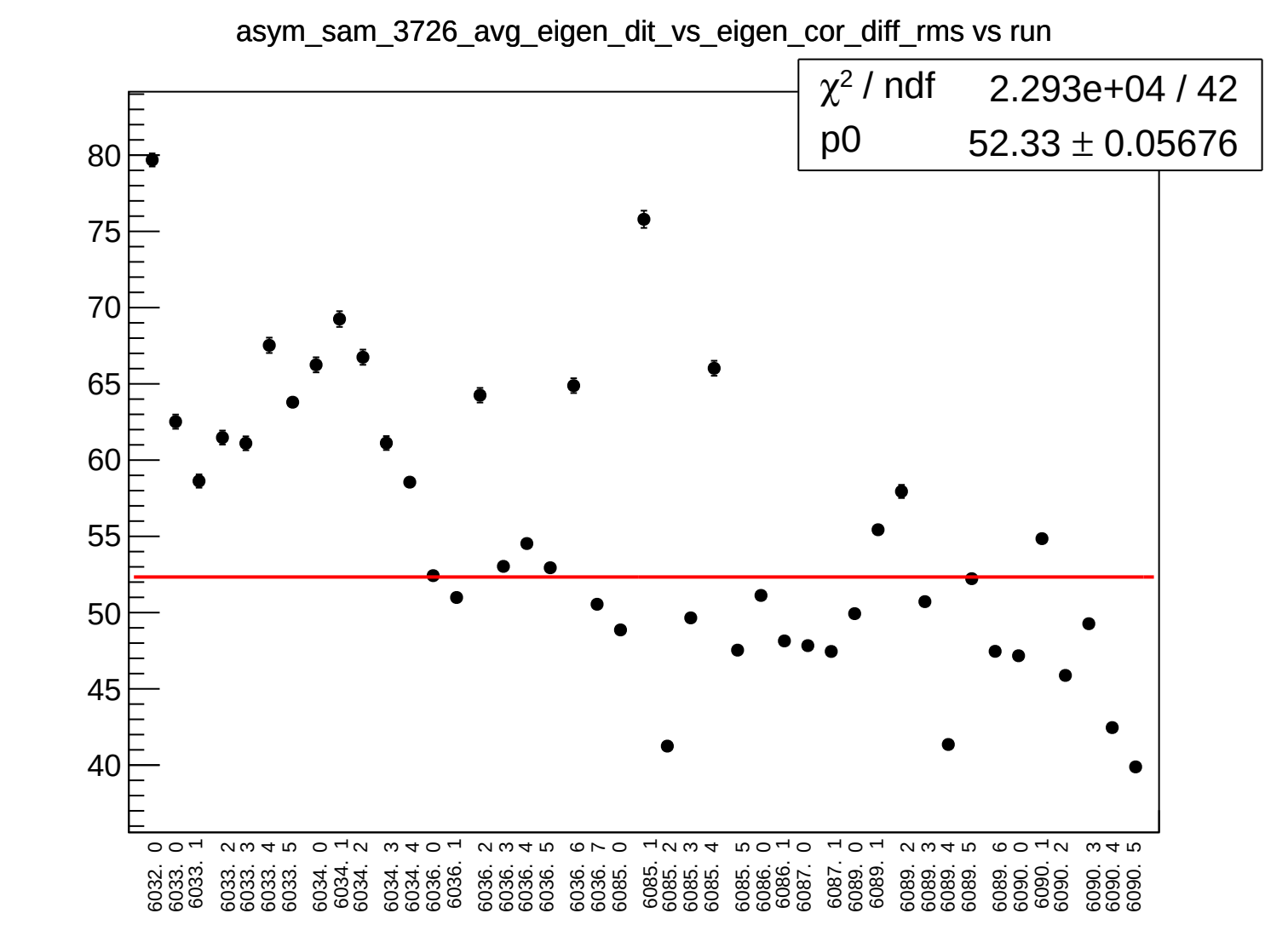

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.357e+04 / 42
p0 0.002306 ± 2.563e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

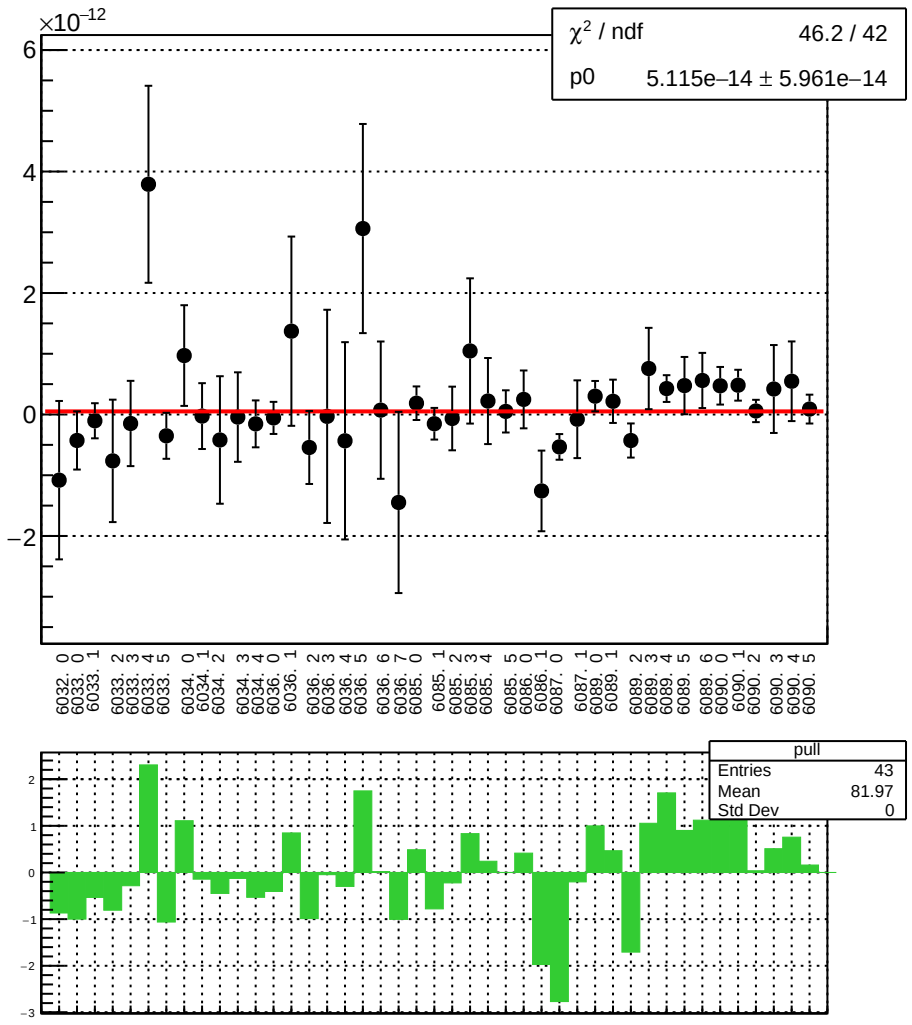

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.29 / 42
p0 0.09367 ± 0.08027
pull
Entries 43
Mean −70.19
Std Dev 0
pull1D
Entries 43
Mean 0.02936
Std Dev 0.9794

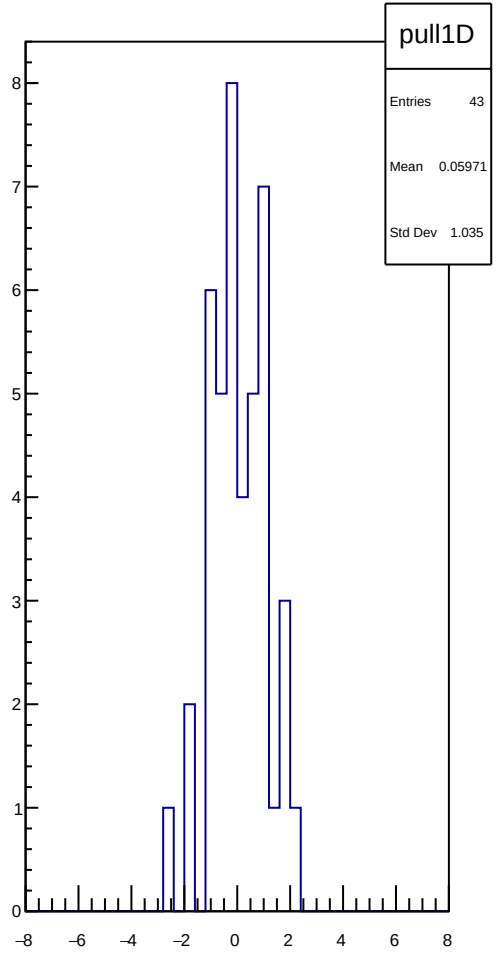

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.293e+04 / 42
p0 52.33 ± 0.05676
80
75
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

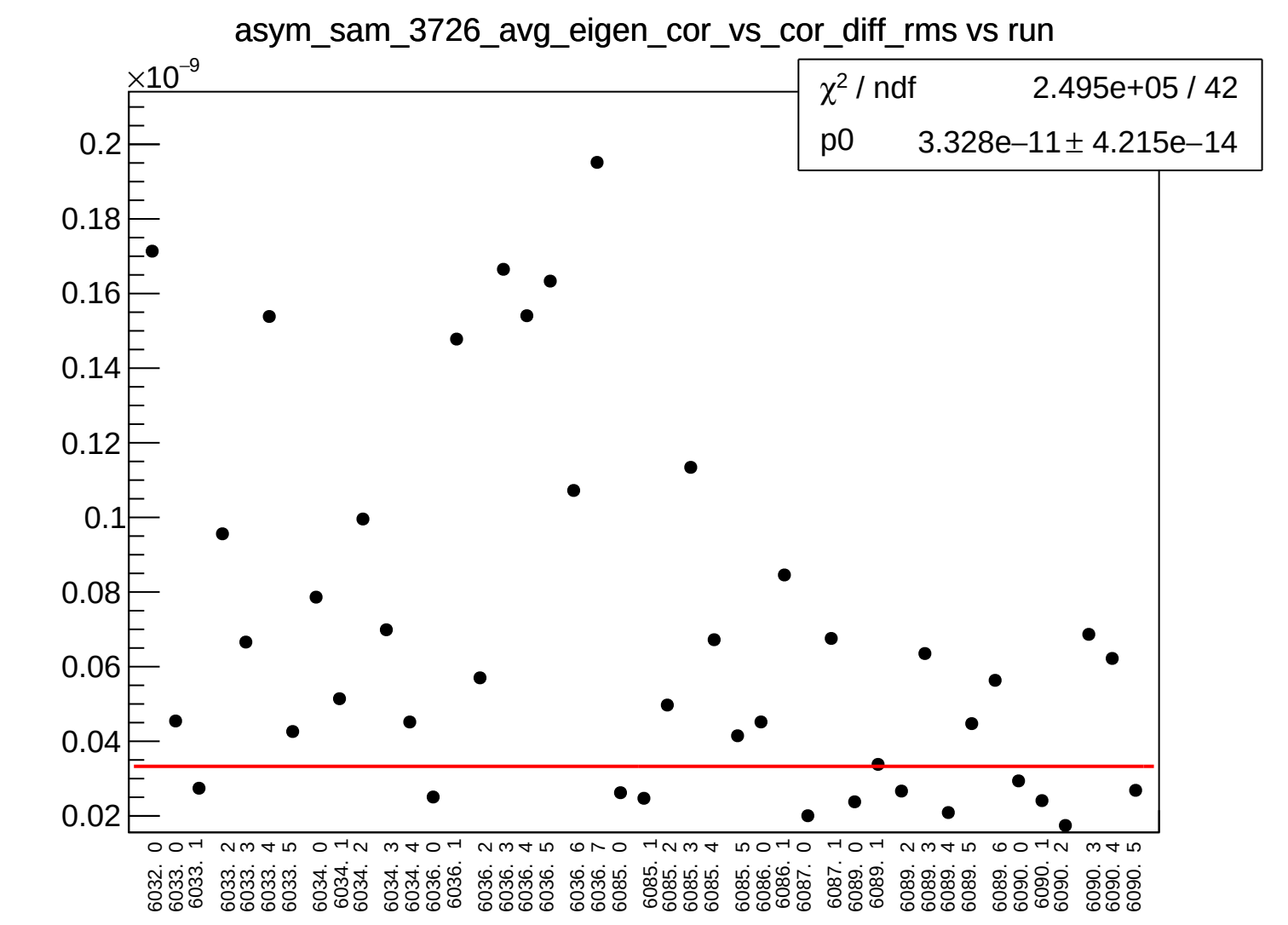

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.29 / 42
p0 0.09367 ± 0.08027
pull
Entries 43
Mean −70.19
Std Dev 0

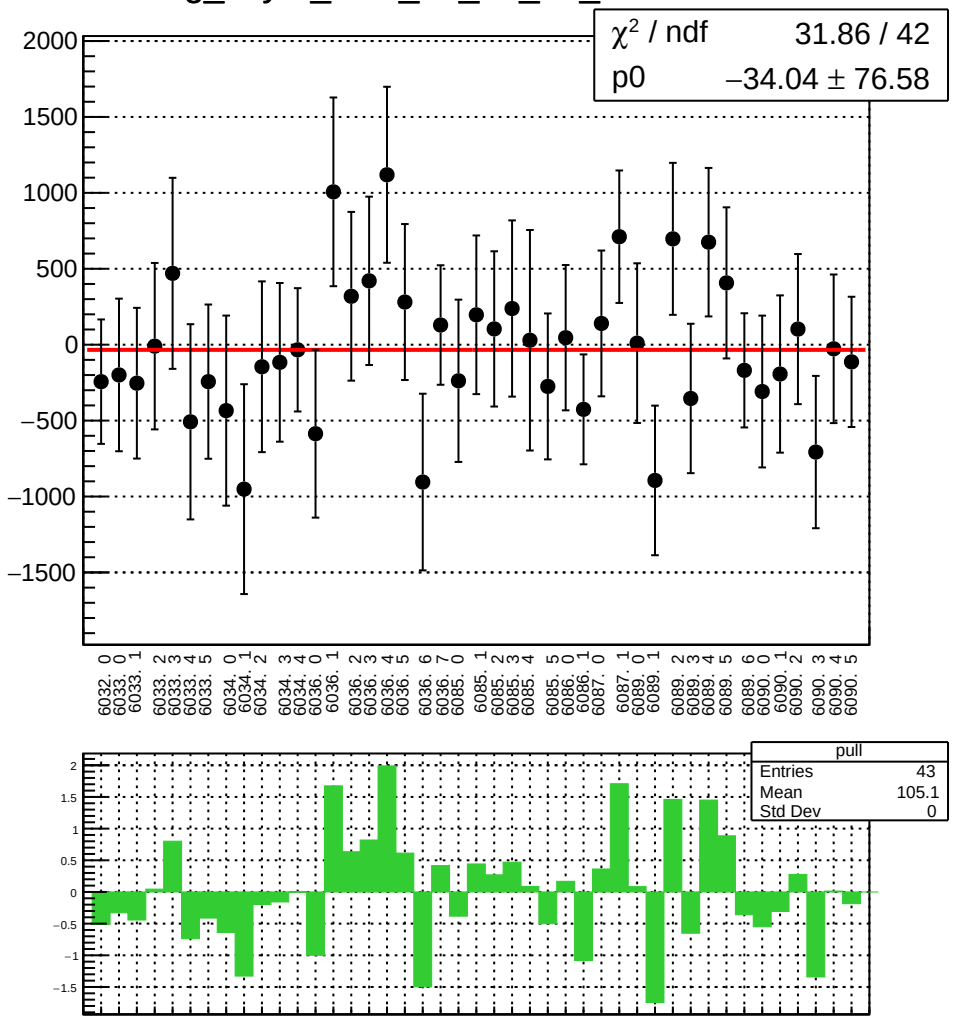

pull1D
Entries 43
Mean 0.02936
Std Dev 0.9794

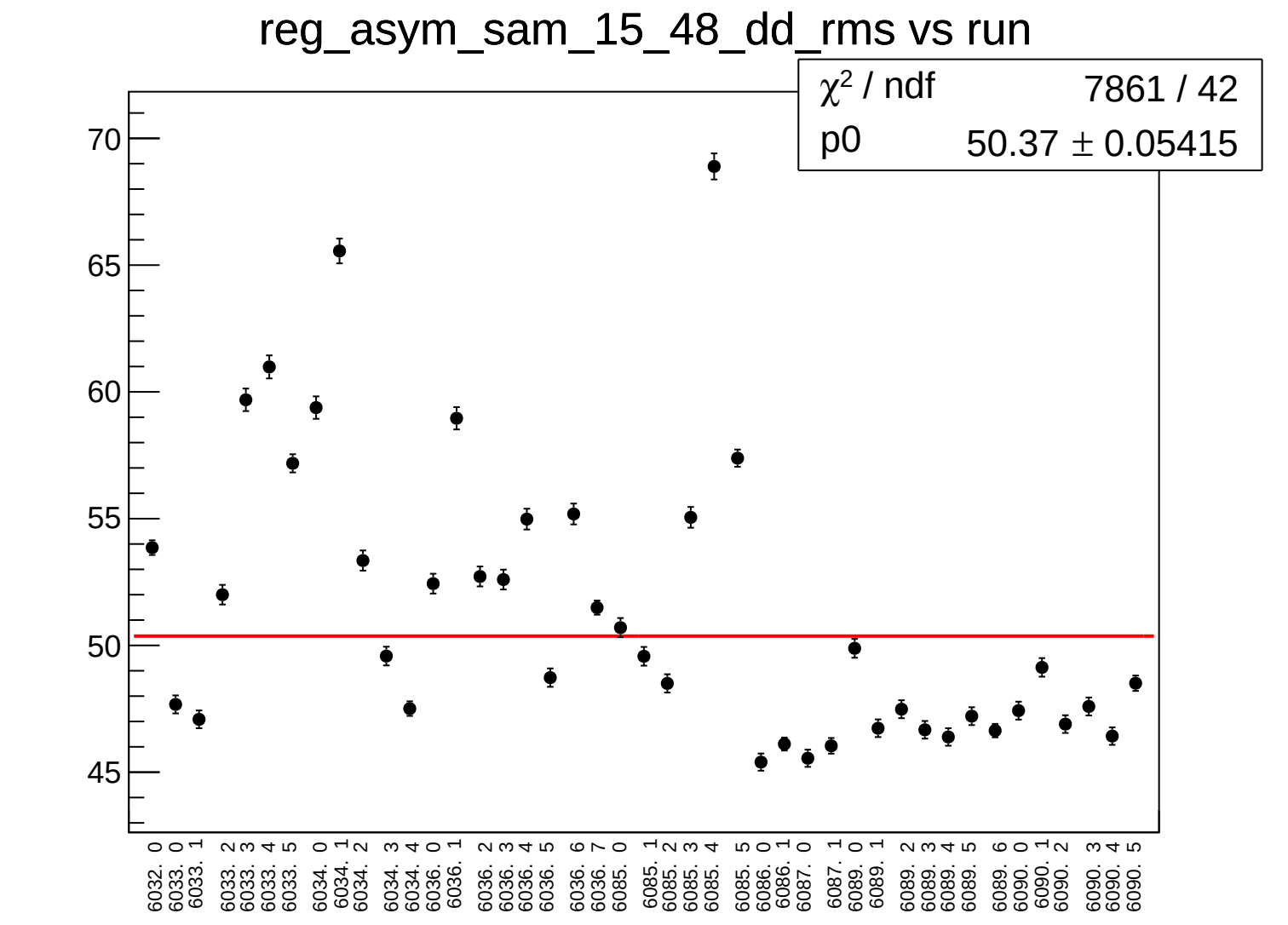

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.293e+04 / 42
p0 52.33 ± 0.05676
80
75
70
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

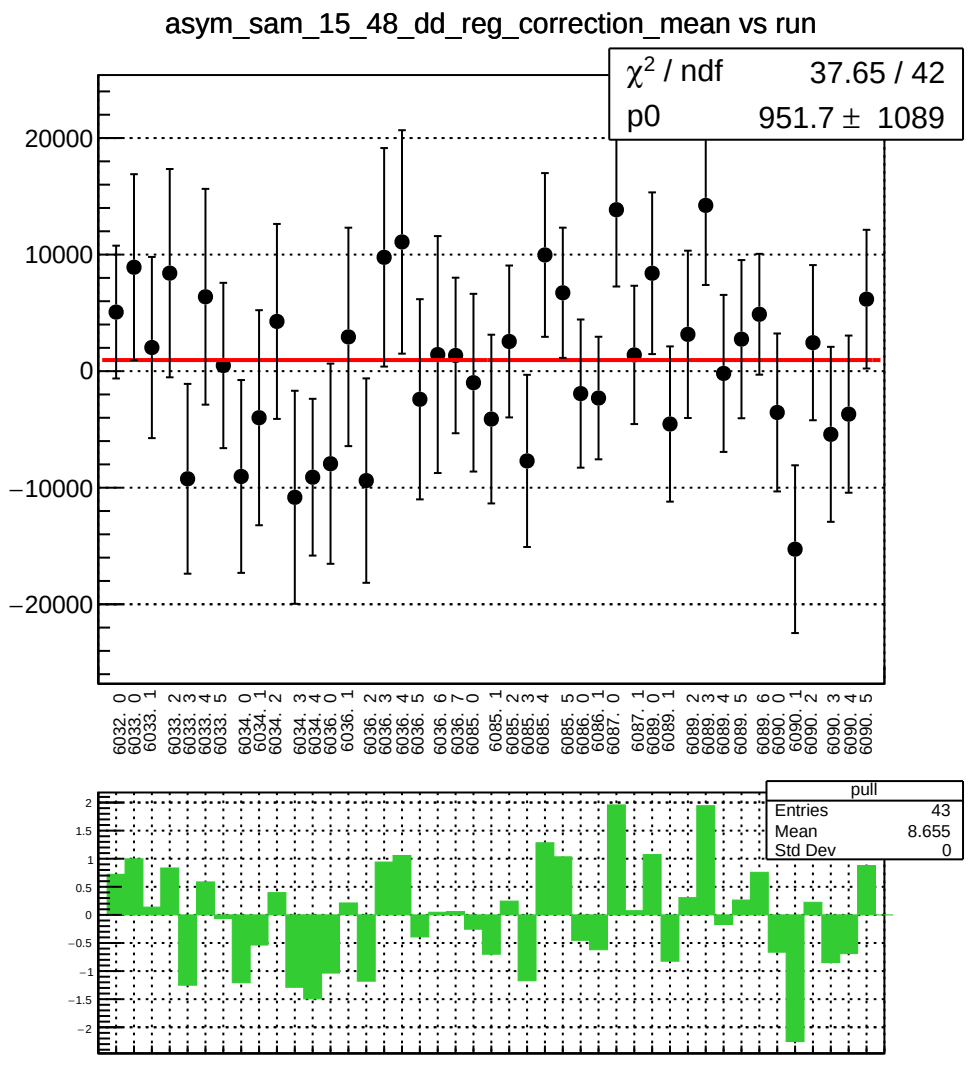

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 46.2 / 42
p0 5.115e−14 ± 5.961e−14
pull
Entries 43
Mean 81.97
Std Dev 0

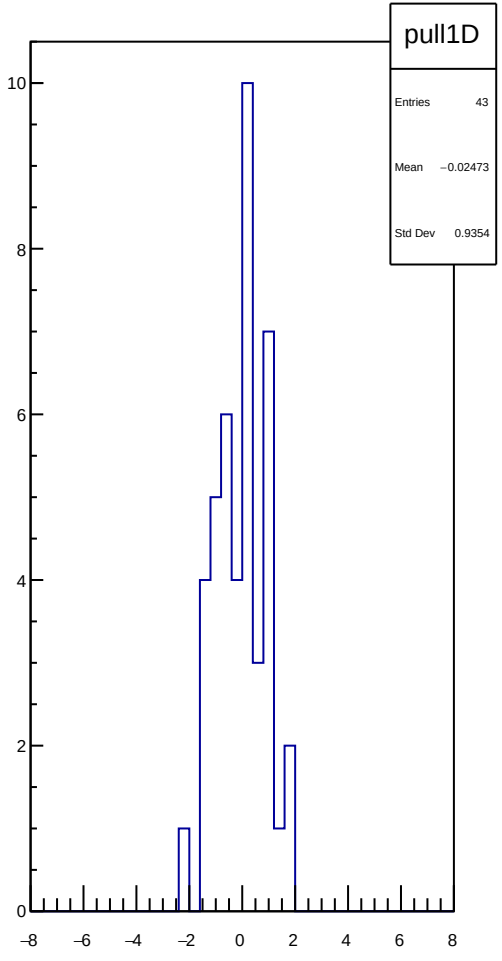

pull1D
Entries 43
Mean 0.05971
Std Dev 1.035

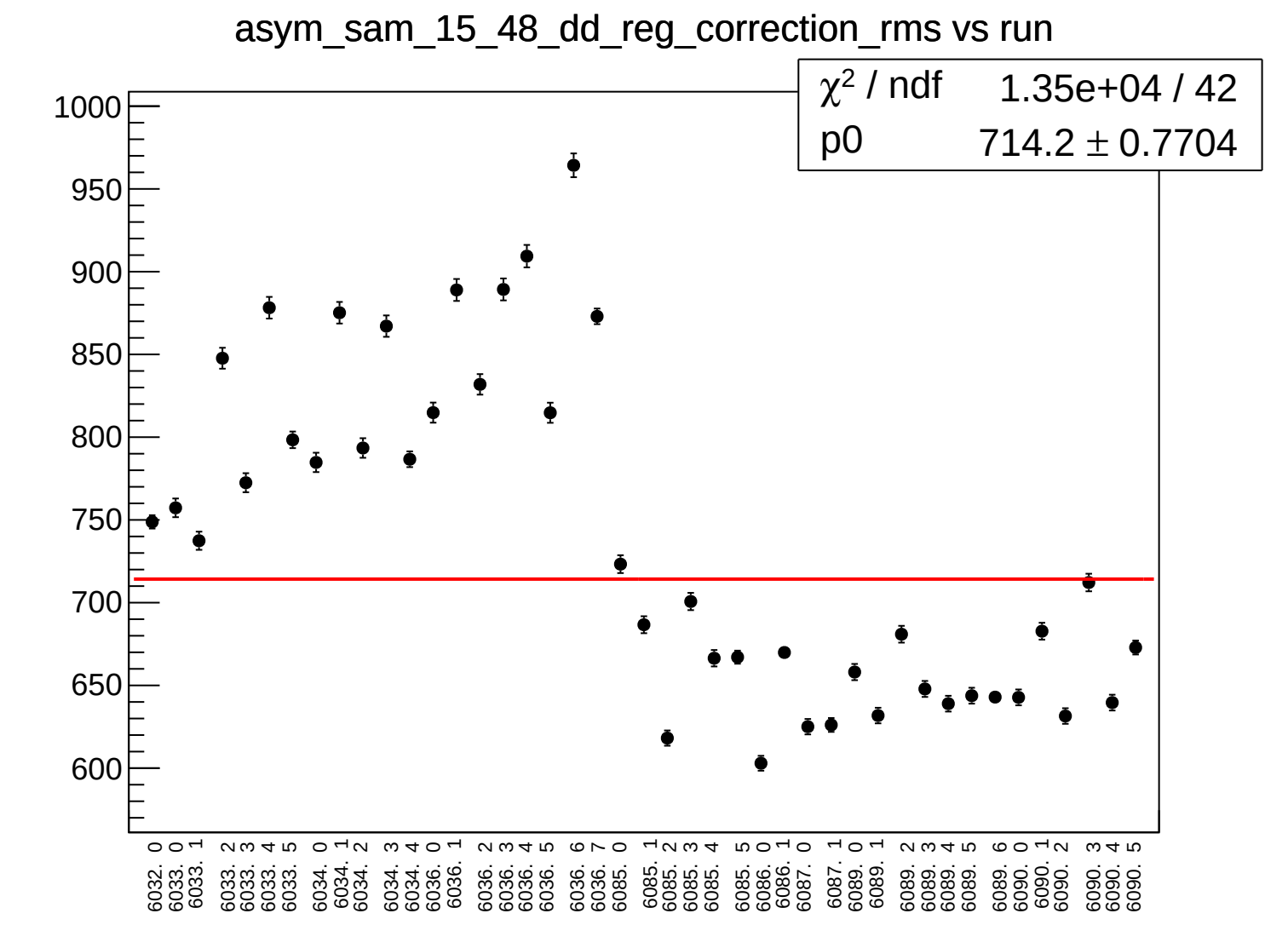

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.495e+05 / 42
p0 3.328e−11 ± 4.215e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

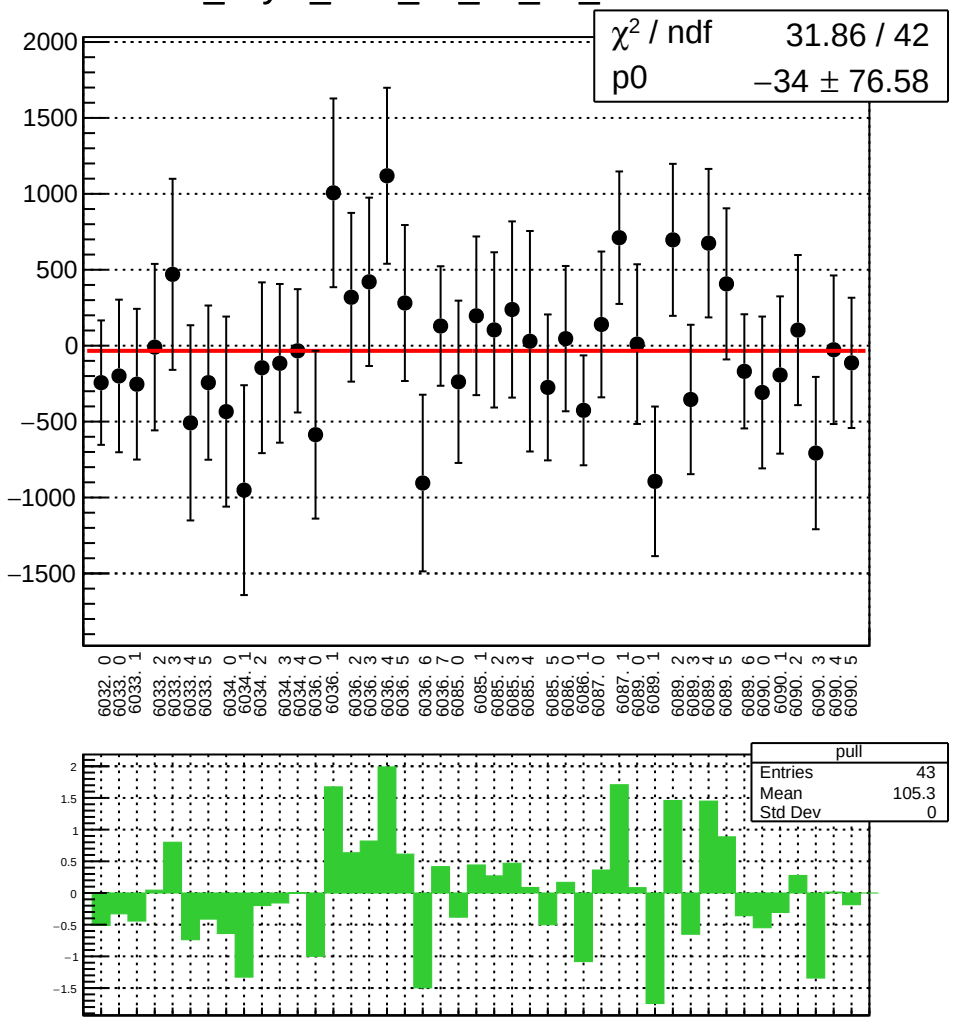

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 31.86 / 42
p0 −34.04 ± 76.58
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 105.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.007454
Std Dev 0.8608
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

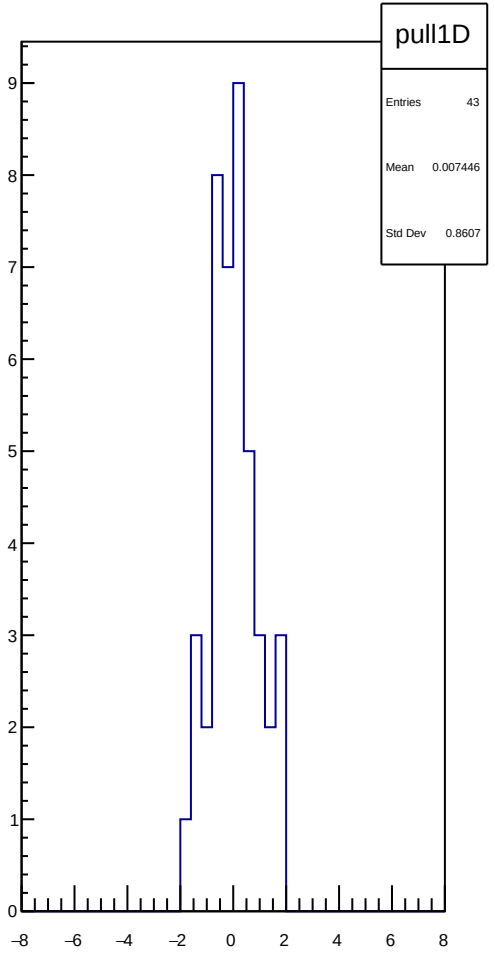

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7861 / 42
p0 50.37 ± 0.05415
70
65
60
55
50
45
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

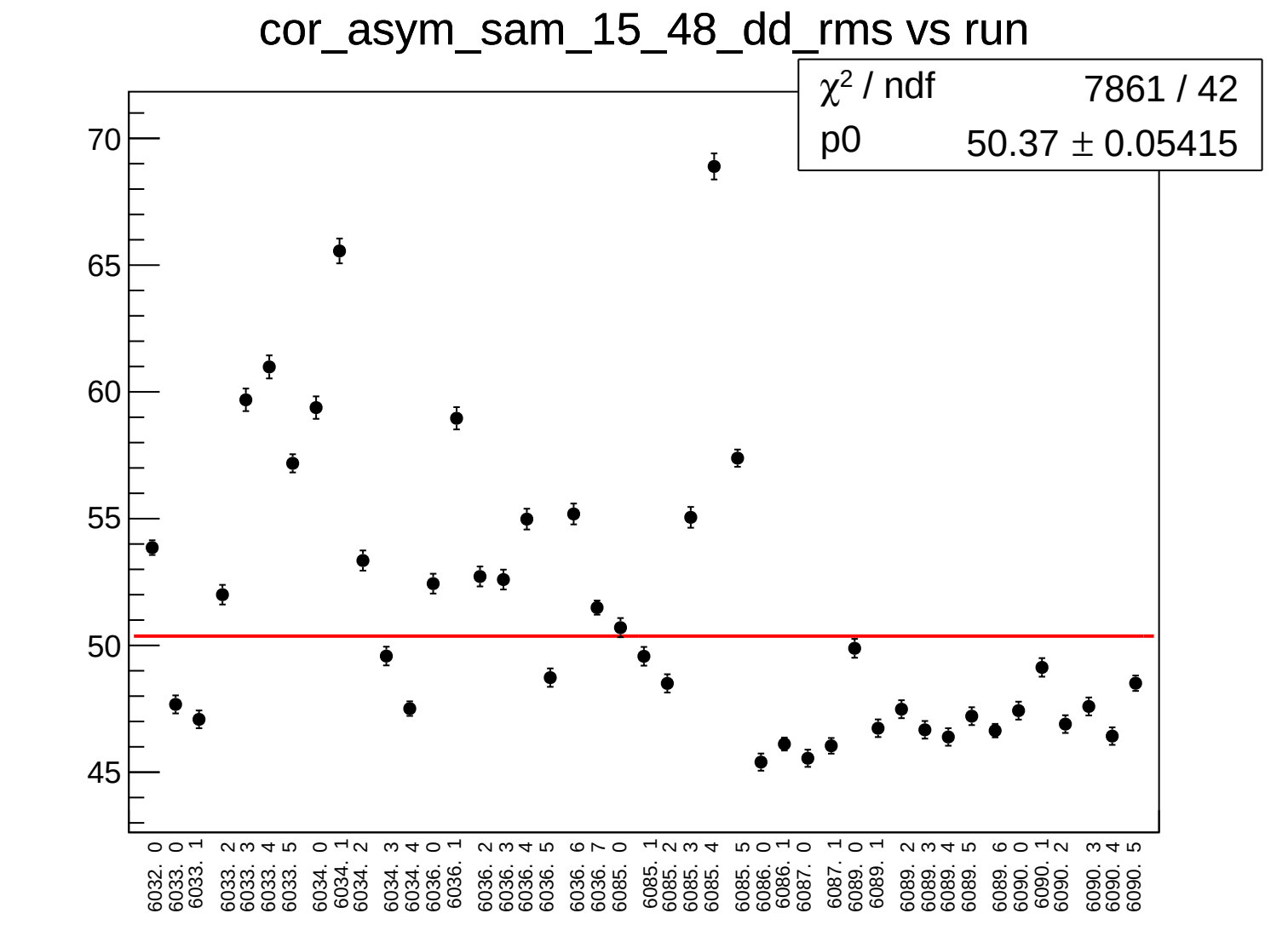

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 37.65 / 42
p0 951.7 ± 1089
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.655
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

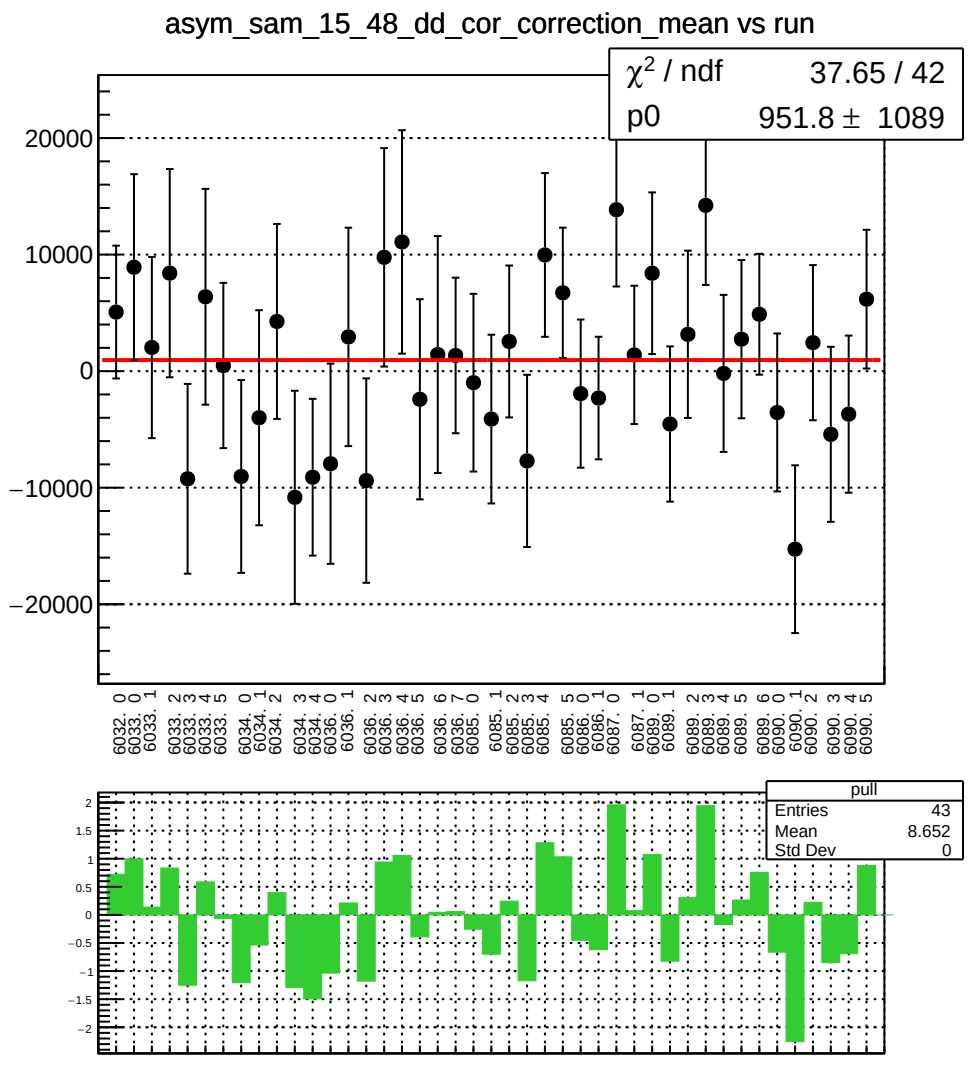

pull1D
Entries 43
Mean −0.02473
Std Dev 0.9354
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

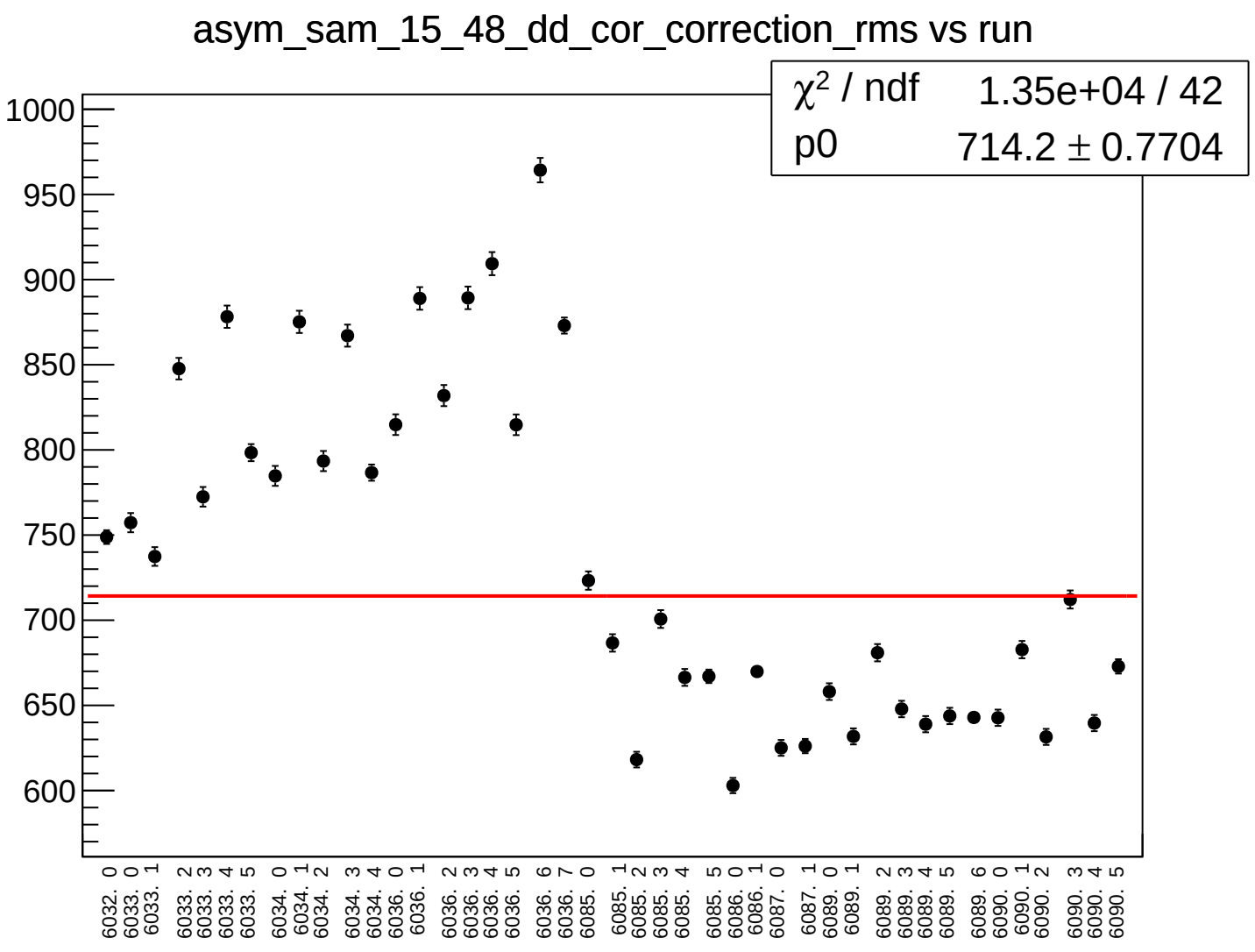

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.35e+04 / 42
p0 714.2 ± 0.7704
1000
950
900
850
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

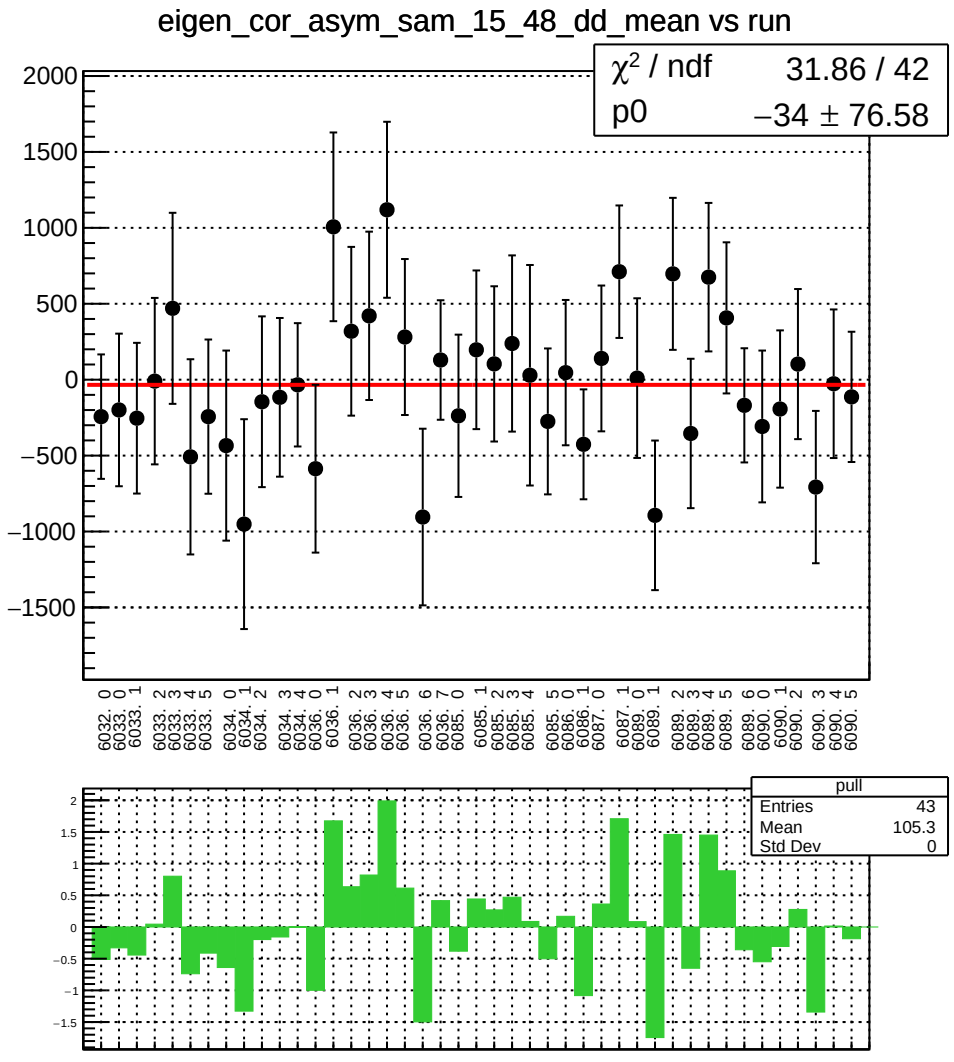

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 31.86 / 42
p0 −34 ± 76.58
pull
Entries 43
Mean 105.3
Std Dev 0

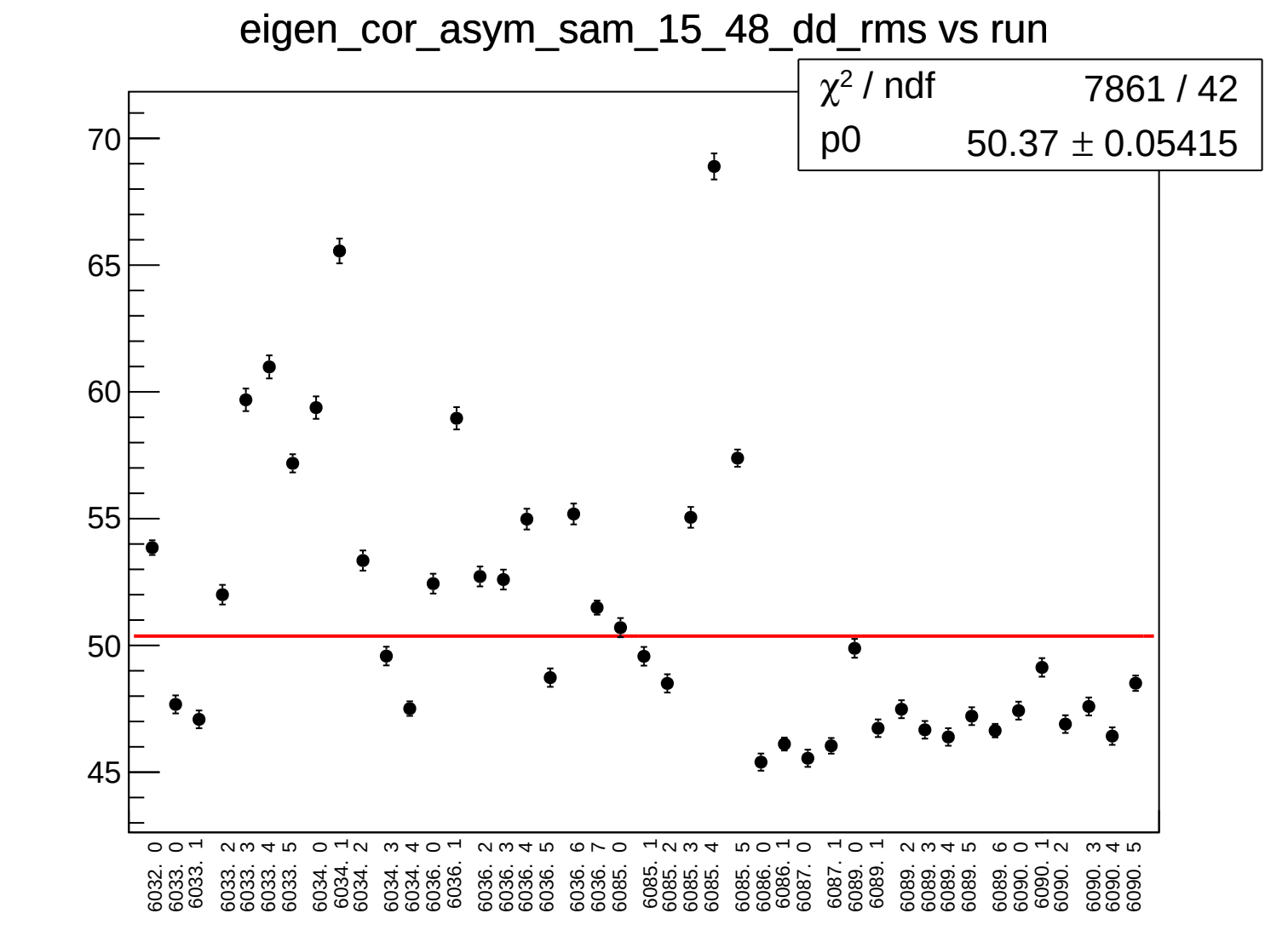

pull1D
Entries 43
Mean 0.007446
Std Dev 0.8607

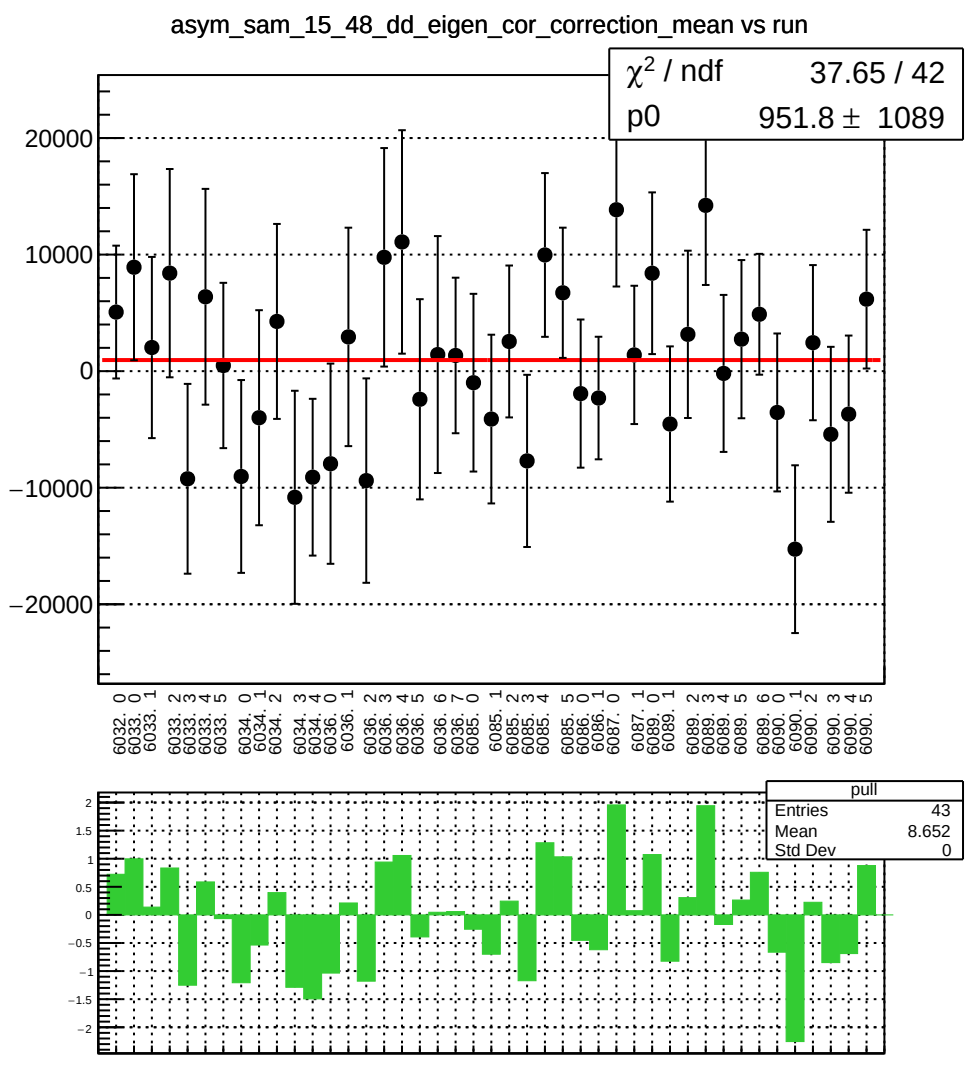

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 7861 / 42
p0 50.37 ± 0.05415
70
65
60
55
50
45
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

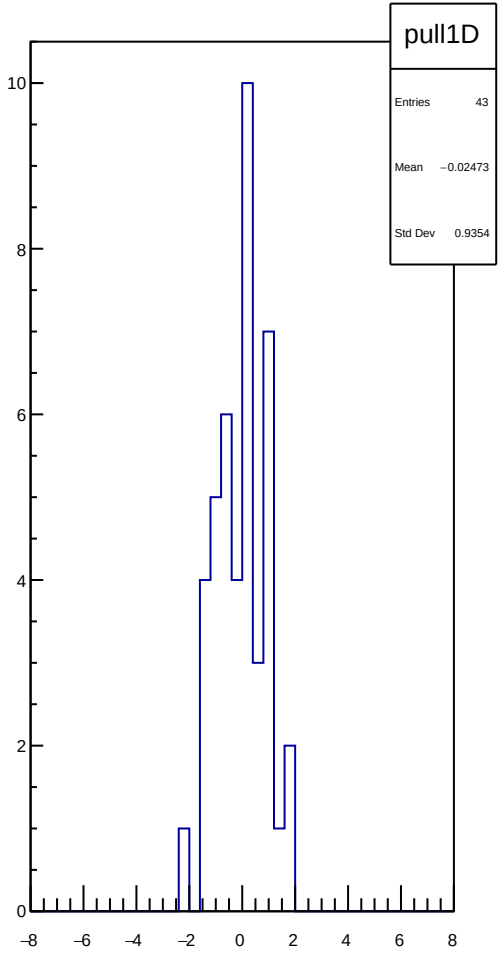

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 37.65 / 42
p0 951.8 ± 1089
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.652
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02473
Std Dev 0.9354
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

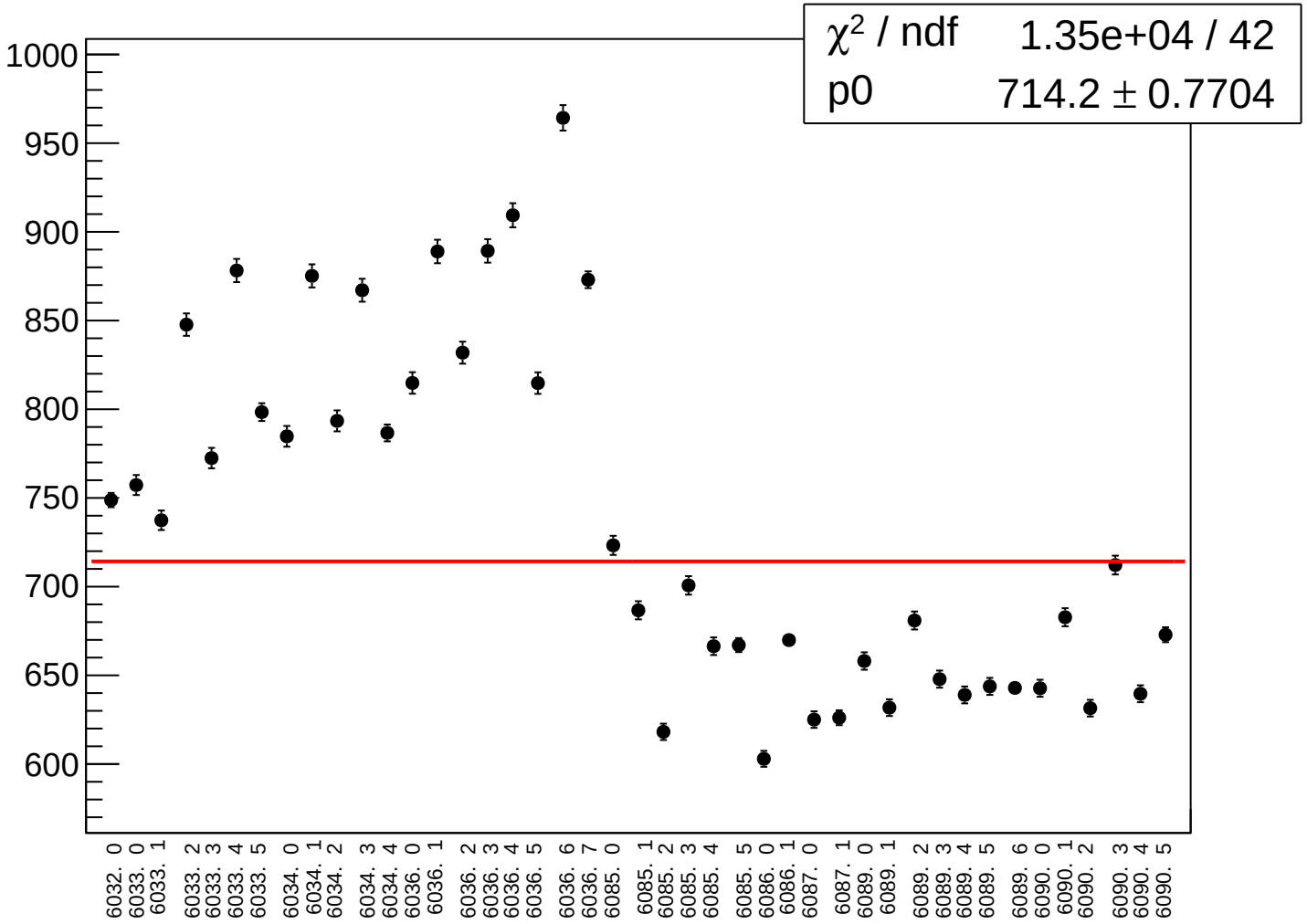

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.35e+04 / 42
p0 714.2 ± 0.7704
1000
950
900
850
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

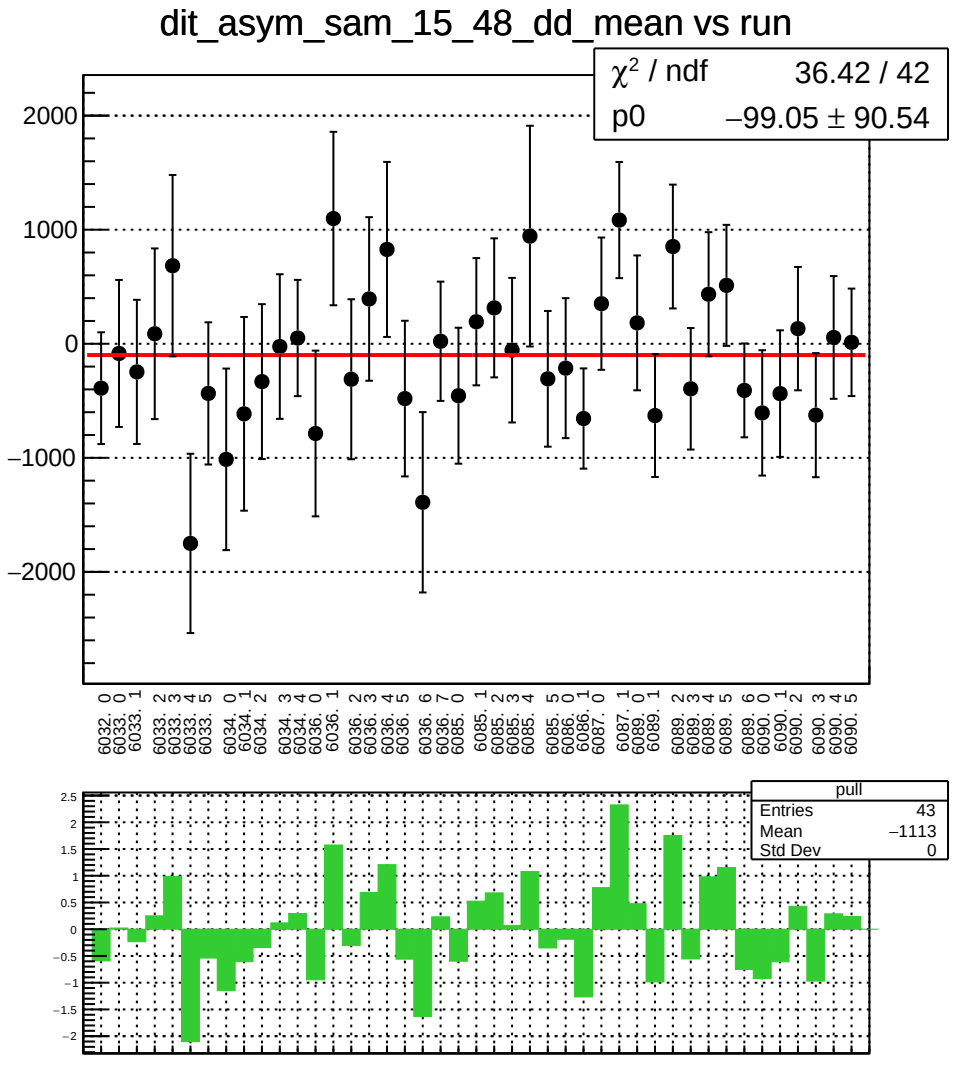

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 31.86 / 42
p0 −34 ± 76.58
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 105.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.007446
Std Dev 0.8607
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

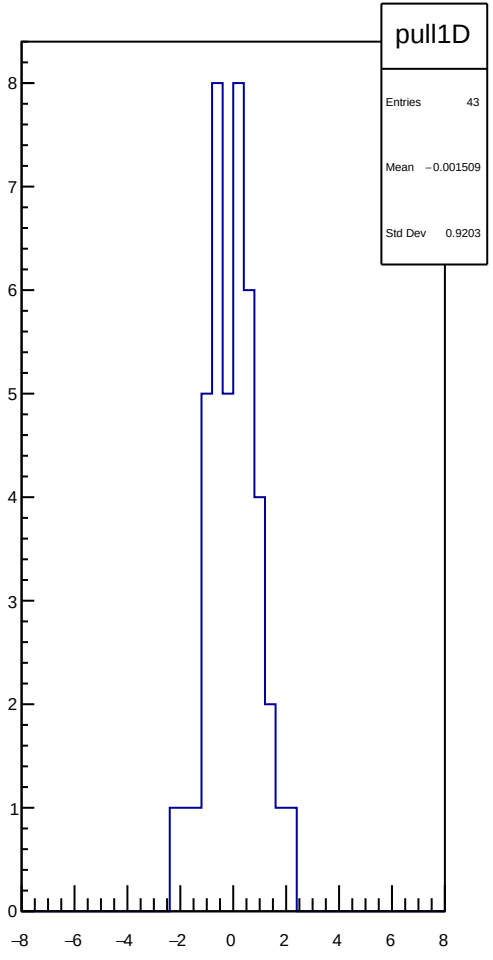

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 7861 / 42
p0 50.37 ± 0.05415
70
65
60
55
50
45
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

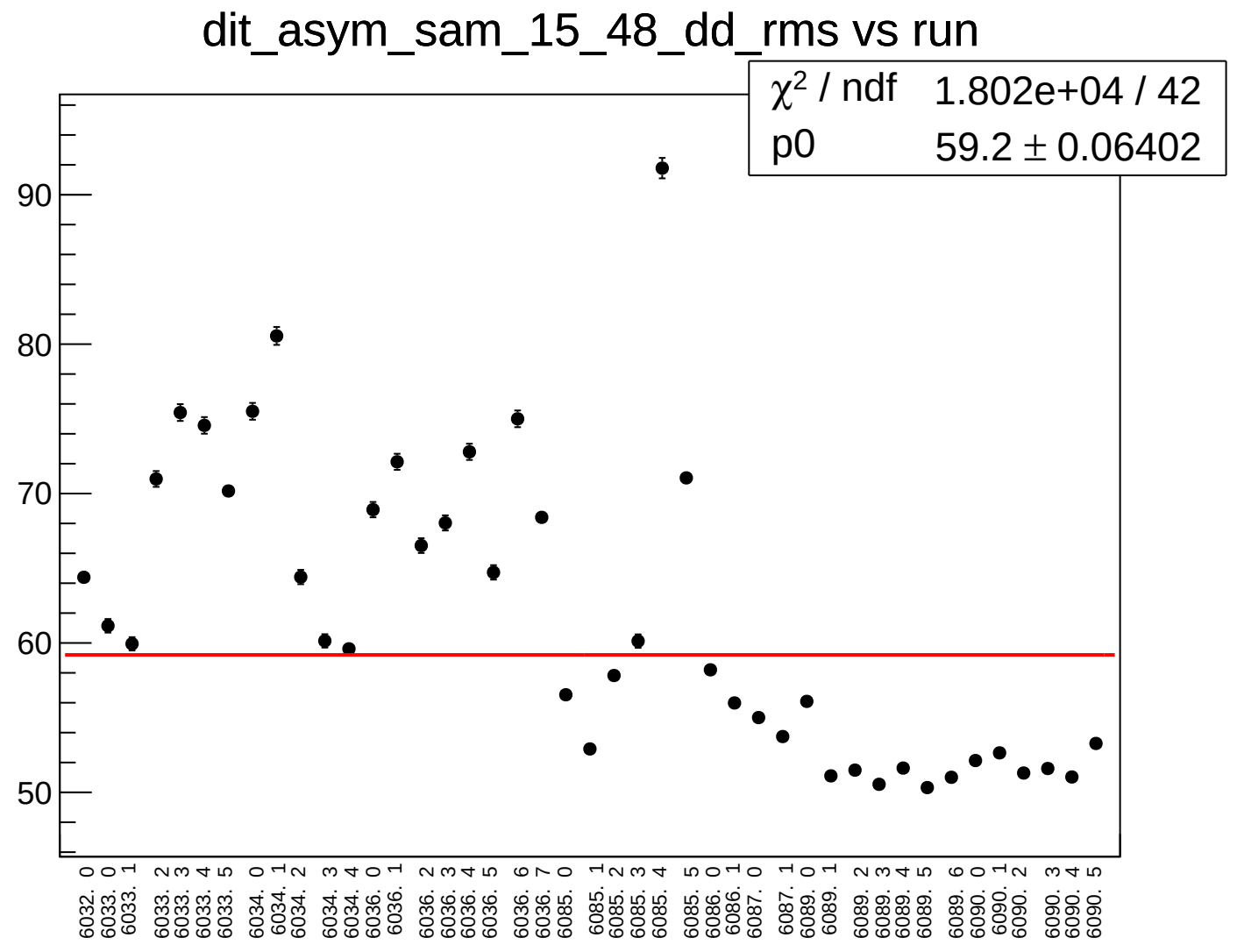

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 37.65 / 42
p0 951.8 ± 1089
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.652
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

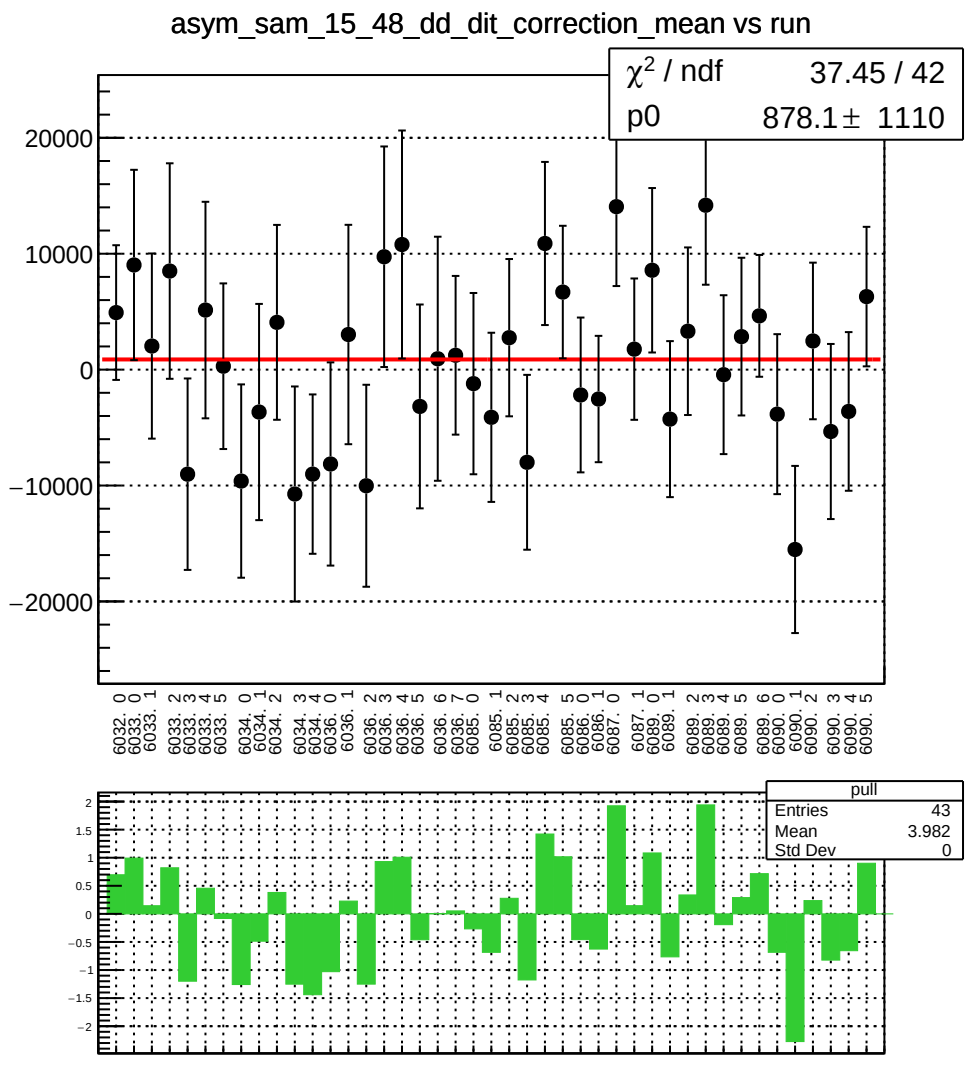

pull1D
Entries 43
Mean −0.02473
Std Dev 0.9354
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

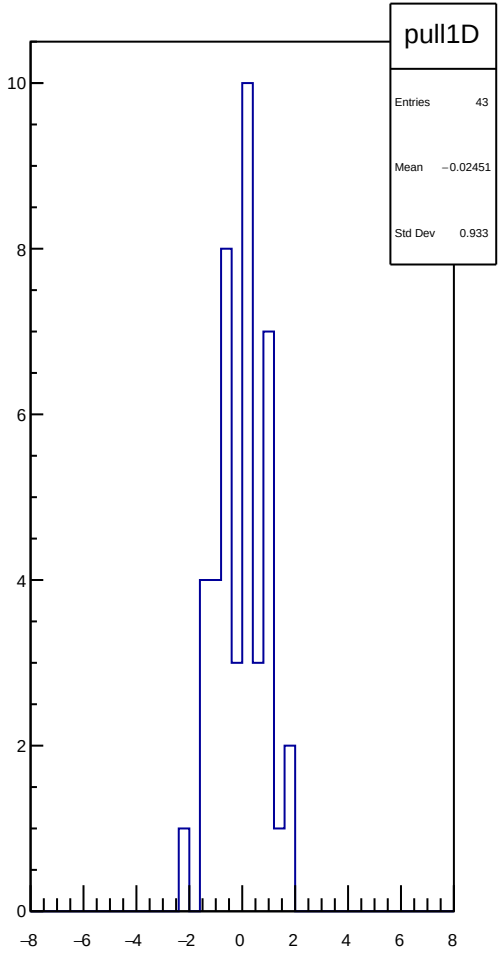

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.35e+04 / 42
p0 714.2 ± 0.7704
1000
950
900
850
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

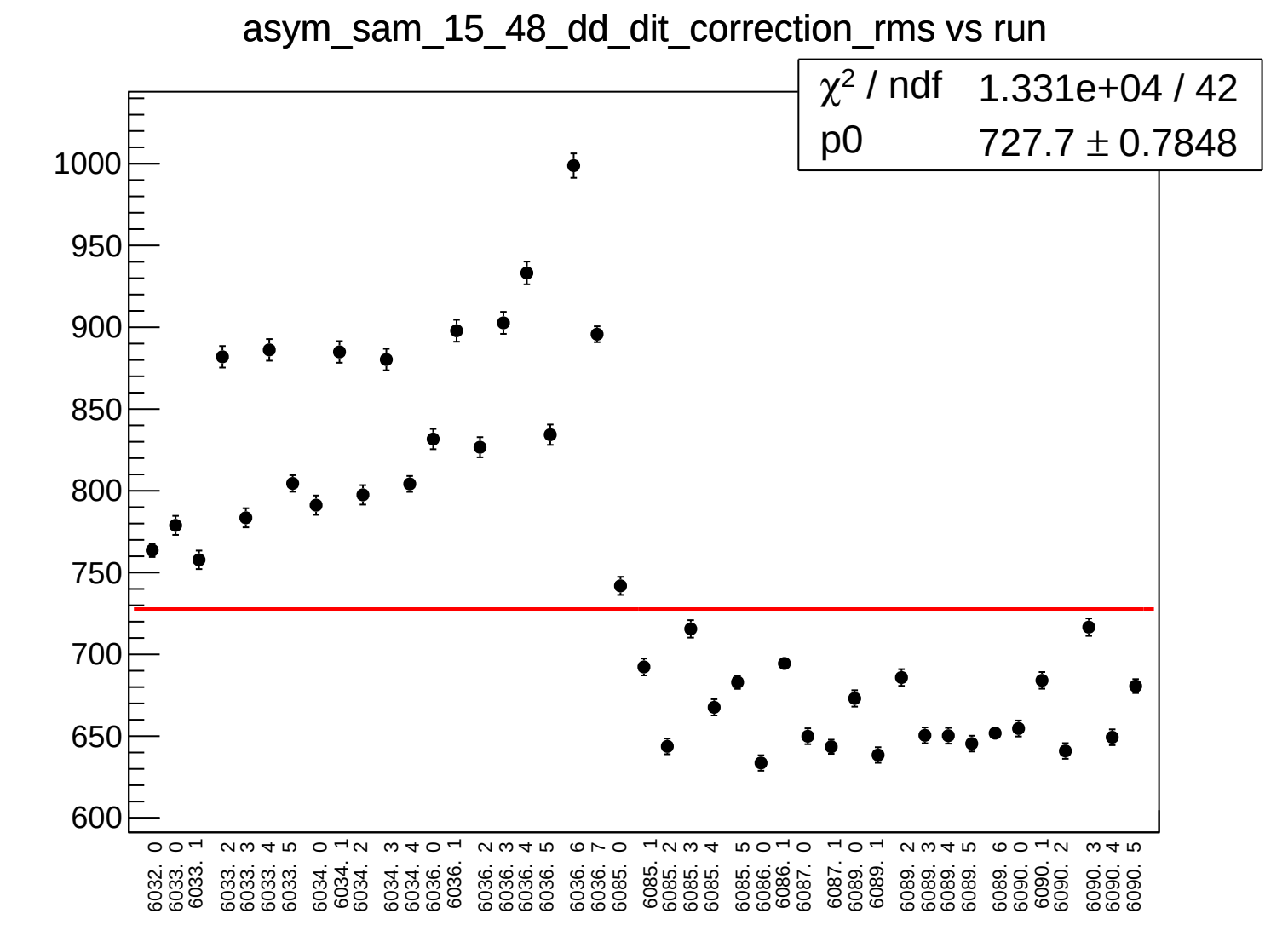

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 36.42 / 42
p0 −99.05 ± 90.54
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1113
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

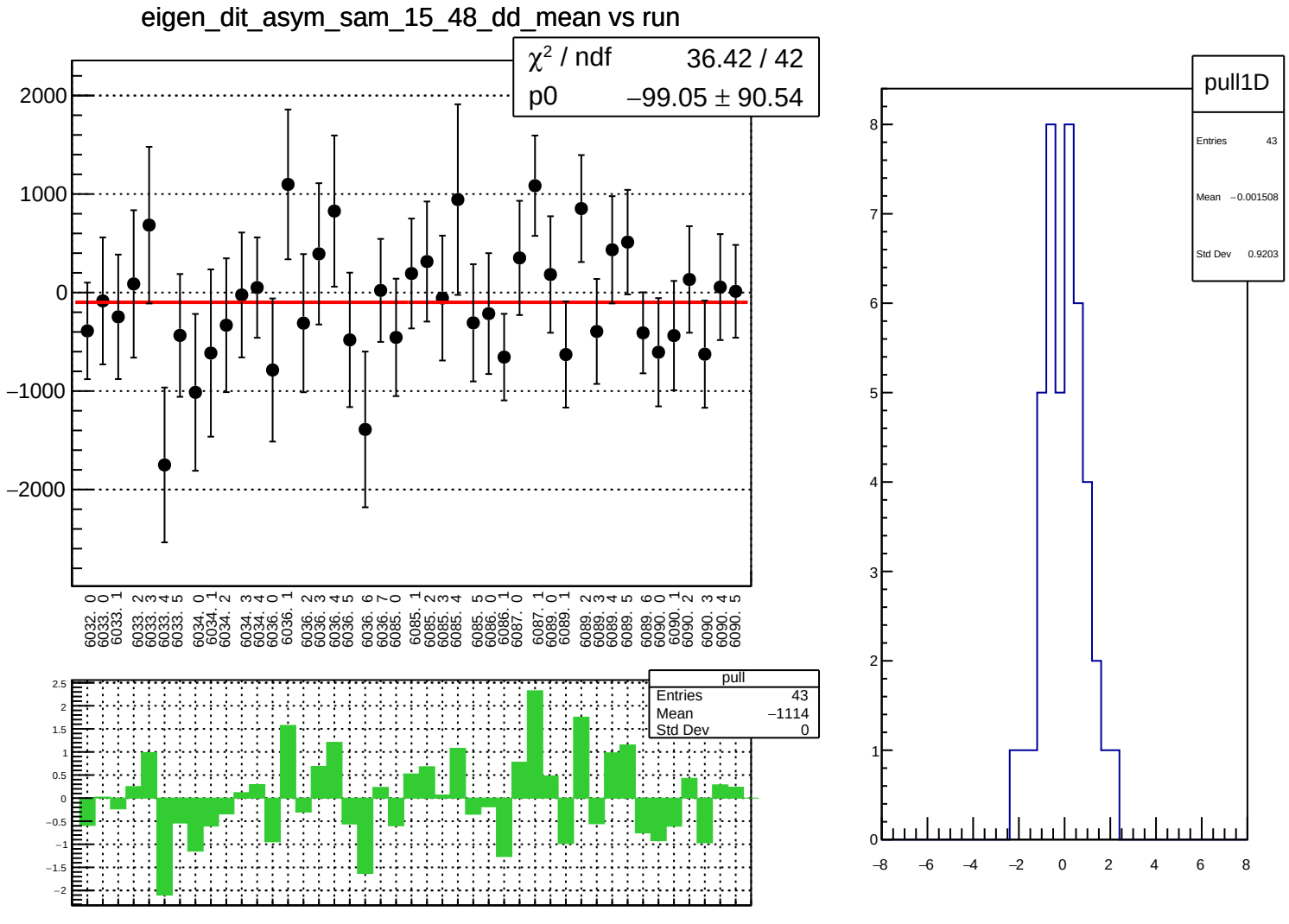

pull1D
Entries 43
Mean −0.001509
Std Dev 0.9203
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

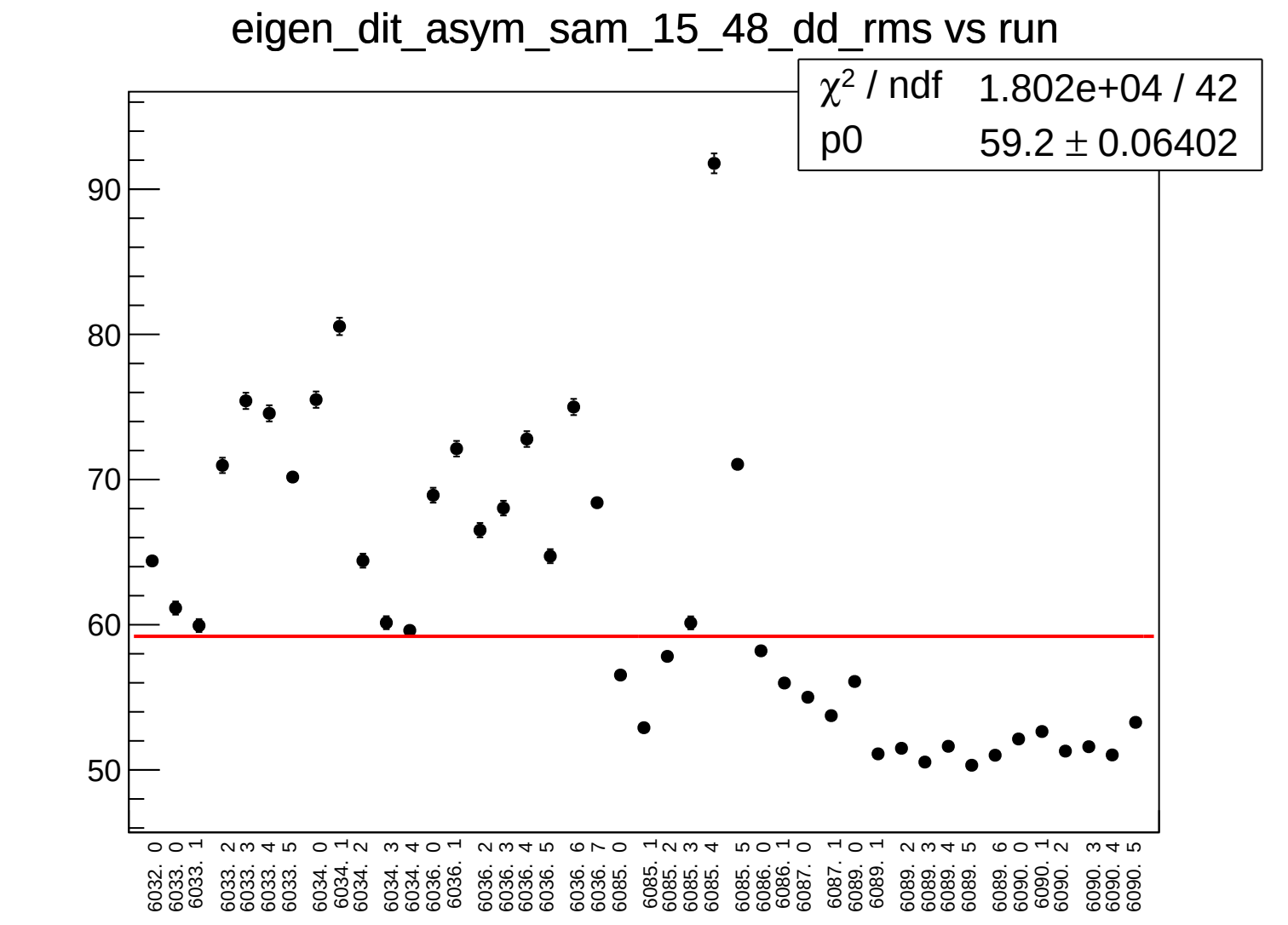

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.802e+04 / 42
p0 59.2 ± 0.06402
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

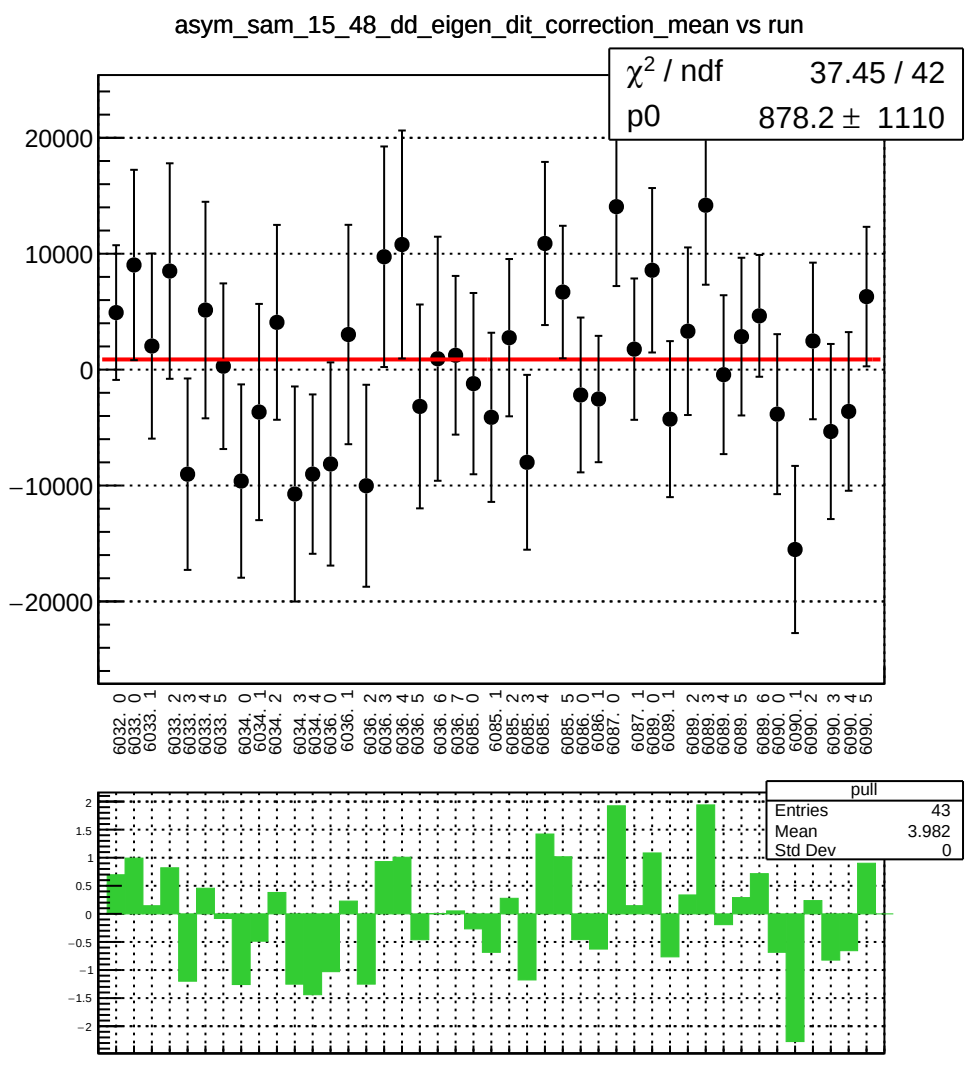

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 37.45 / 42
p0 878.1± 1110
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.982
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

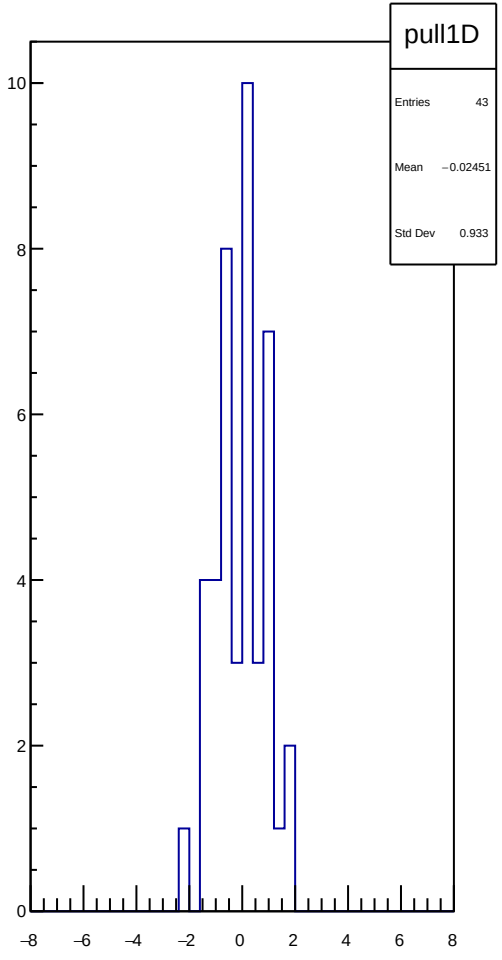

pull1D
Entries 43
Mean −0.02451
Std Dev 0.933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

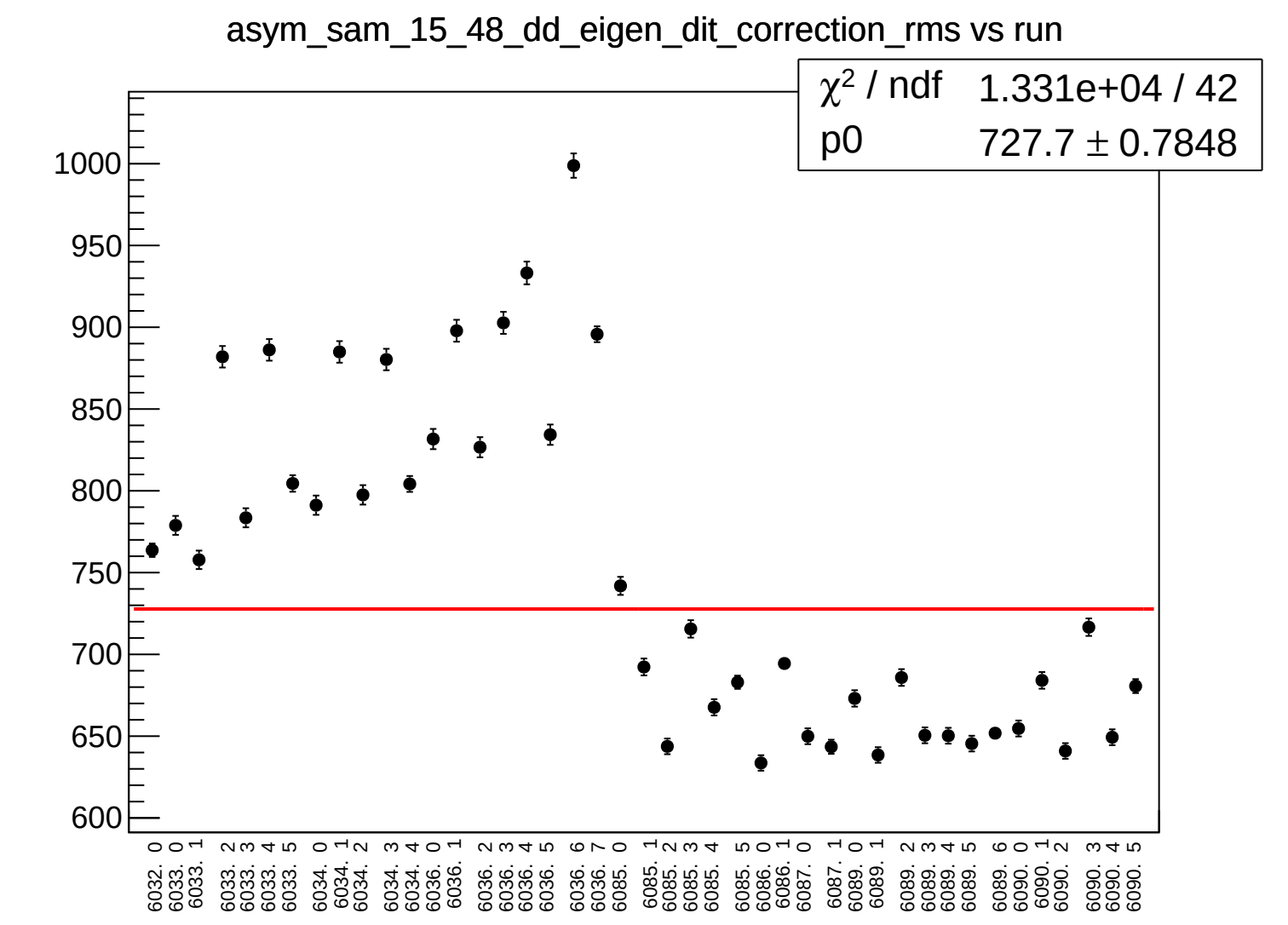

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.331e+04 / 42
p0 727.7 ± 0.7848
1000
950
900
850
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

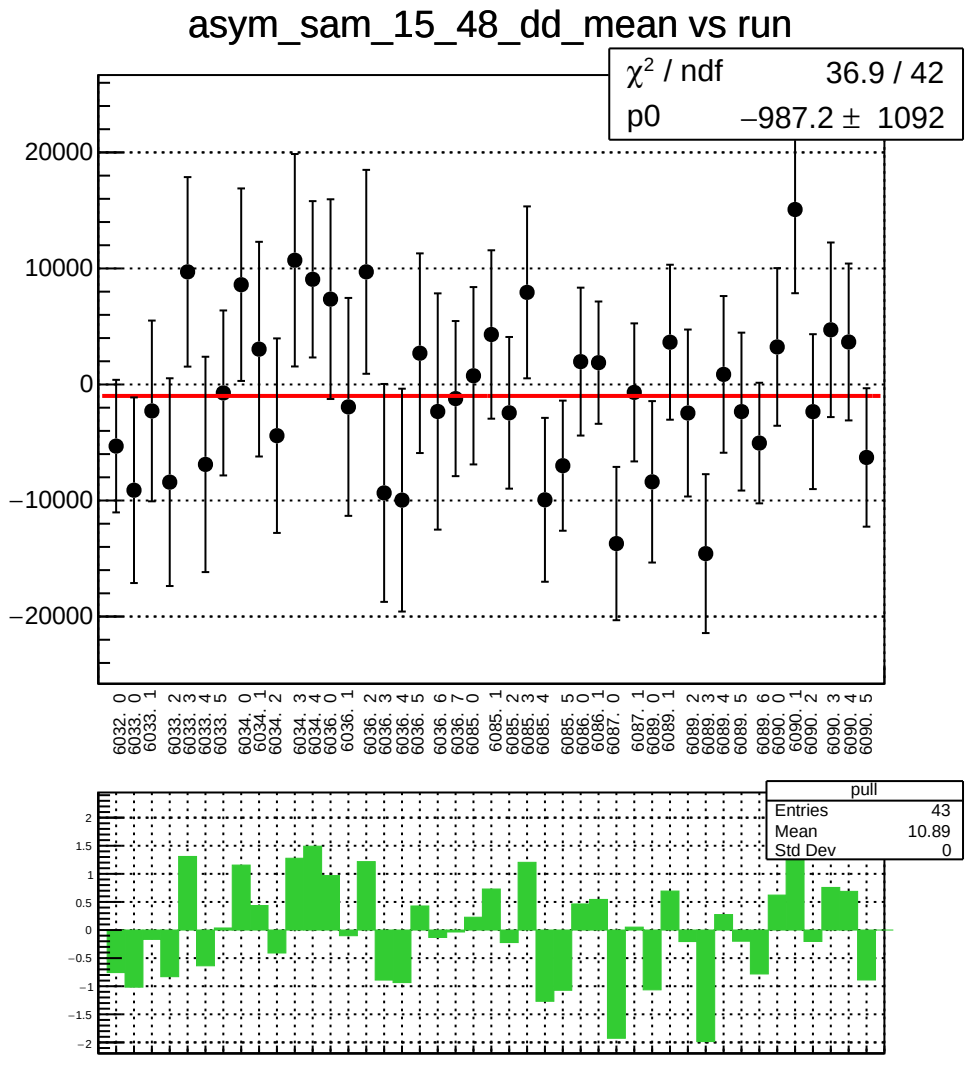

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 36.42 / 42
p0 −99.05 ± 90.54
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1114
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001508
Std Dev 0.9203
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

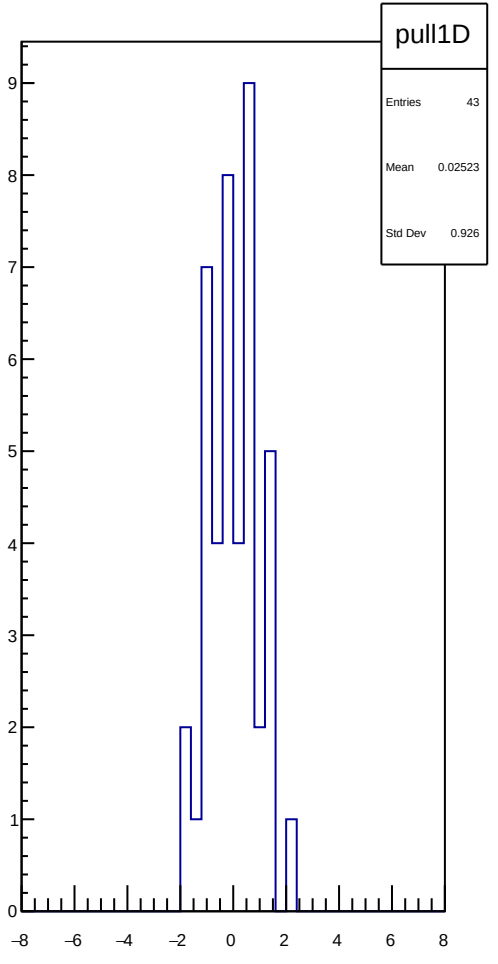

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.802e+04 / 42
p0 59.2 ± 0.06402
90
80
70
60
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

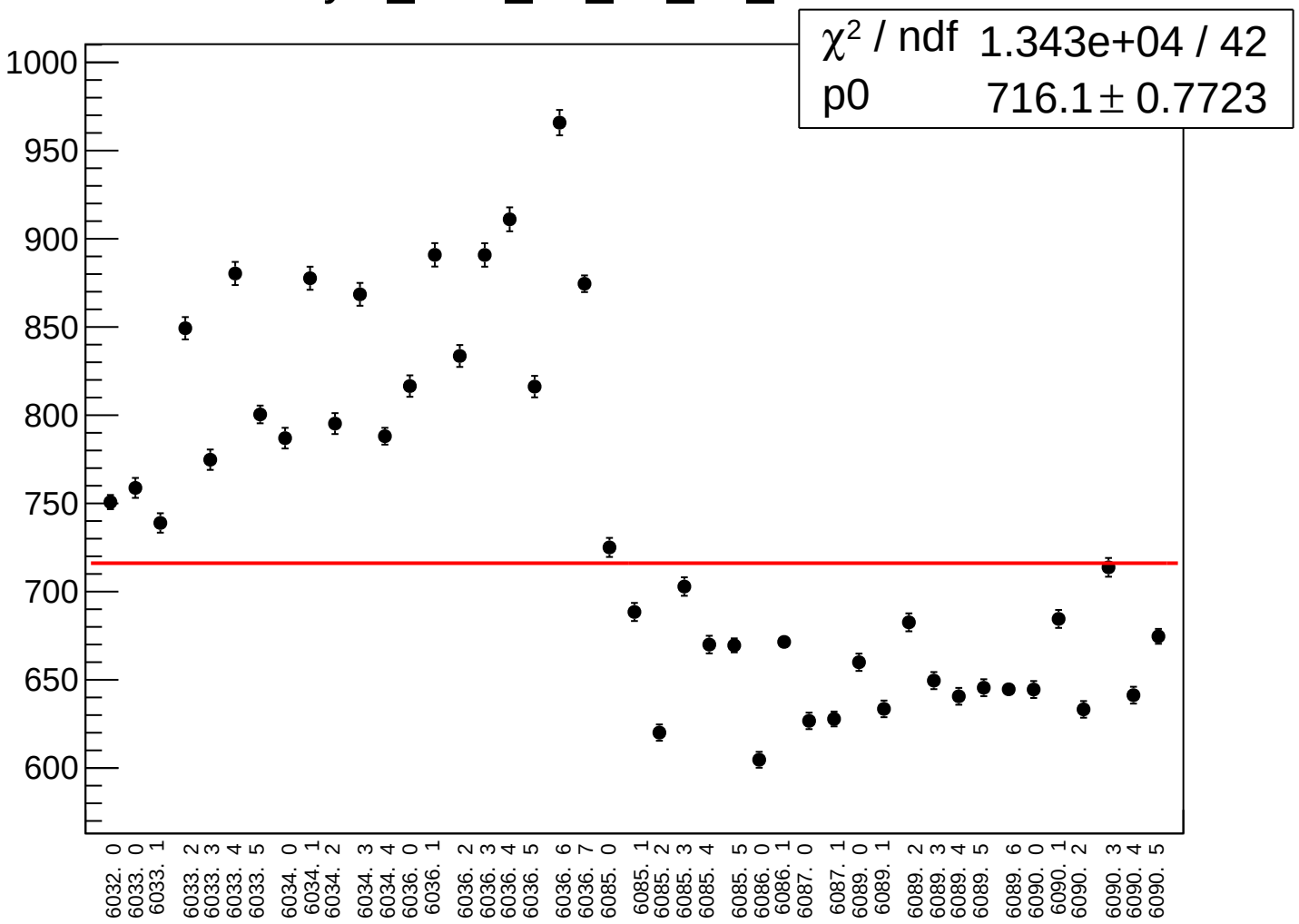

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.45 / 42
p0 878.2 ± 1110
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3.982
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

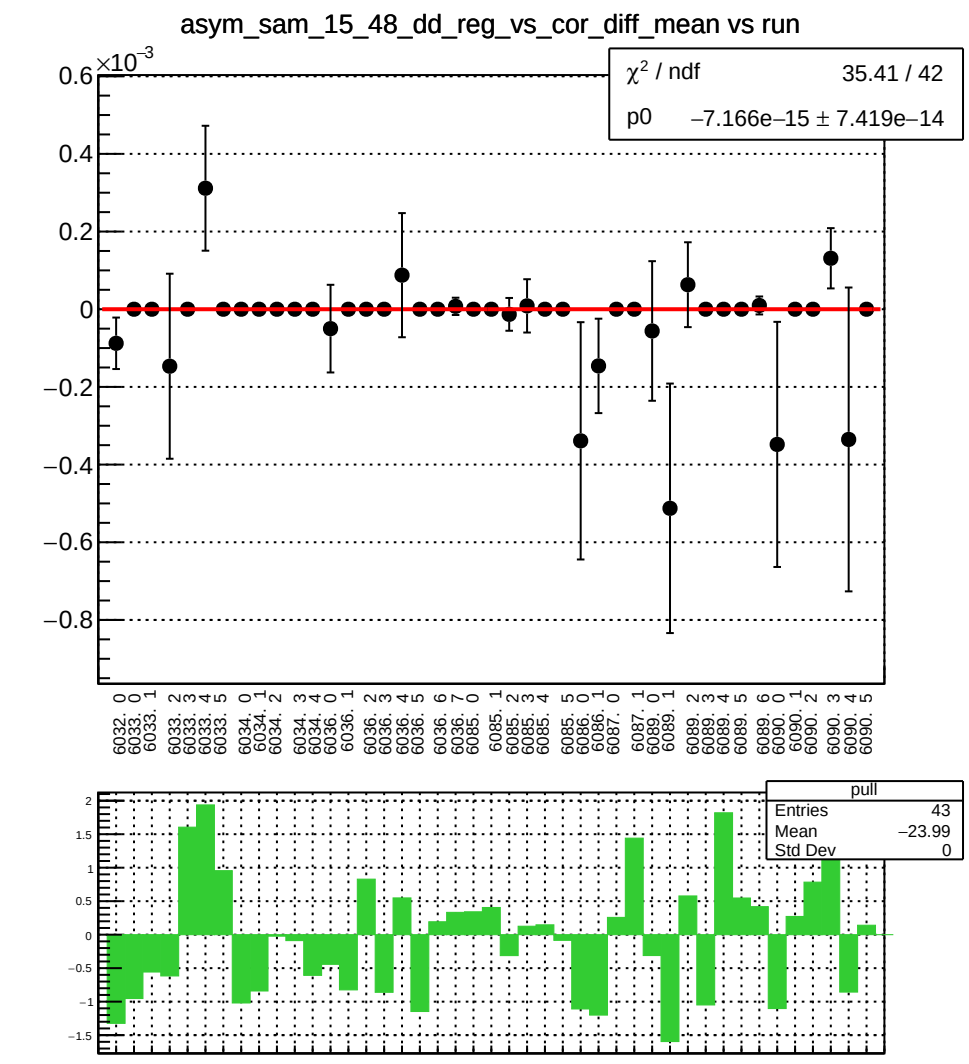

pull1D
Entries 43
Mean −0.02451
Std Dev 0.933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

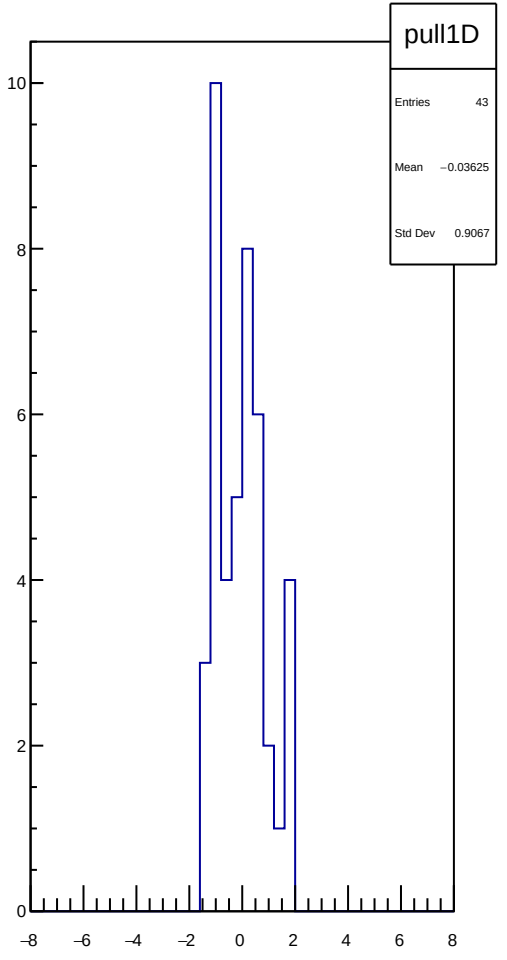

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.331e+04 / 42
p0 727.7 ± 0.7848
1000
950
900
850
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

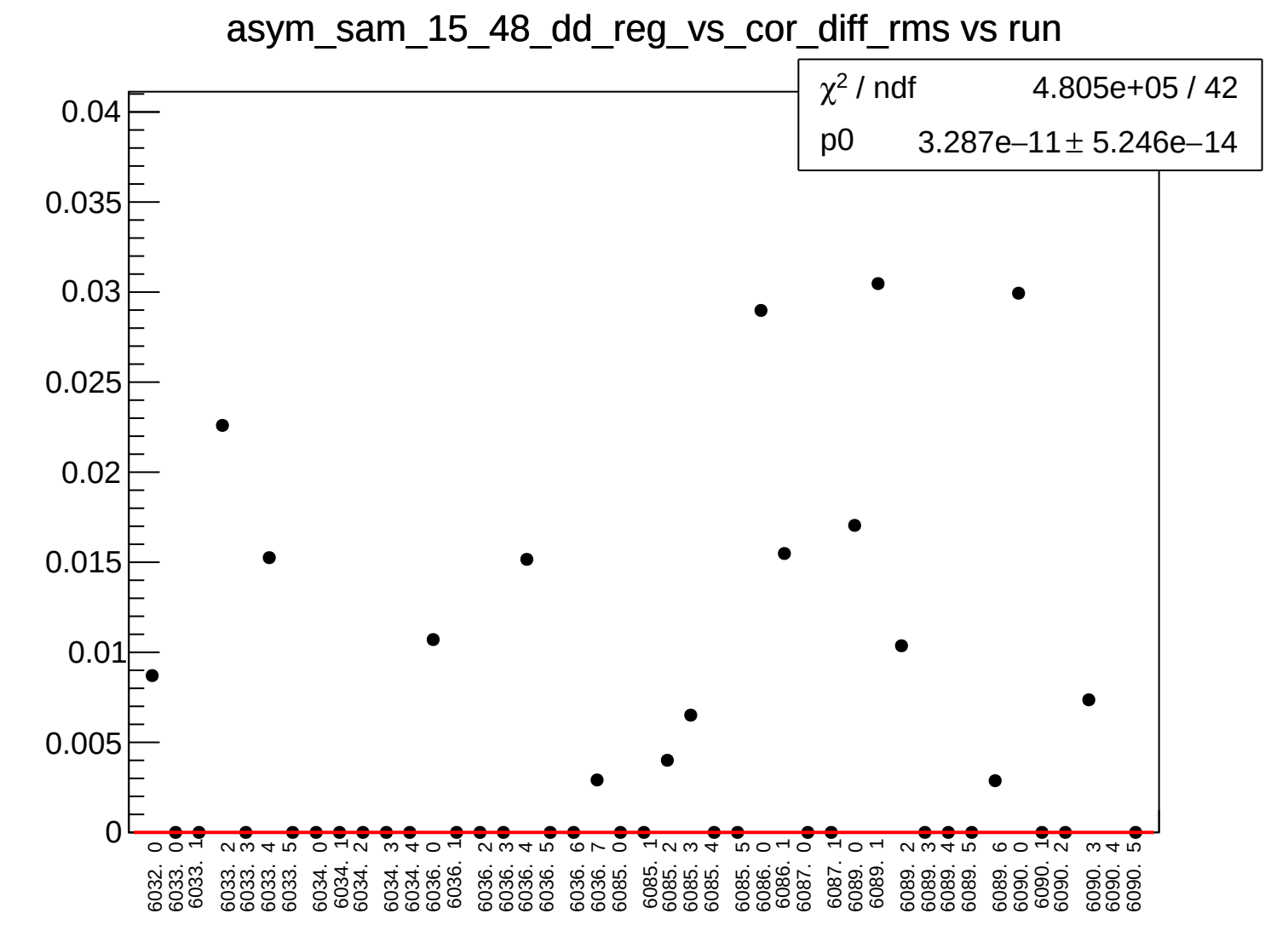

asym_sam_15_48_dd_mean vs run
χ² / ndf 36.9 / 42
p0 −987.2 ± 1092
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

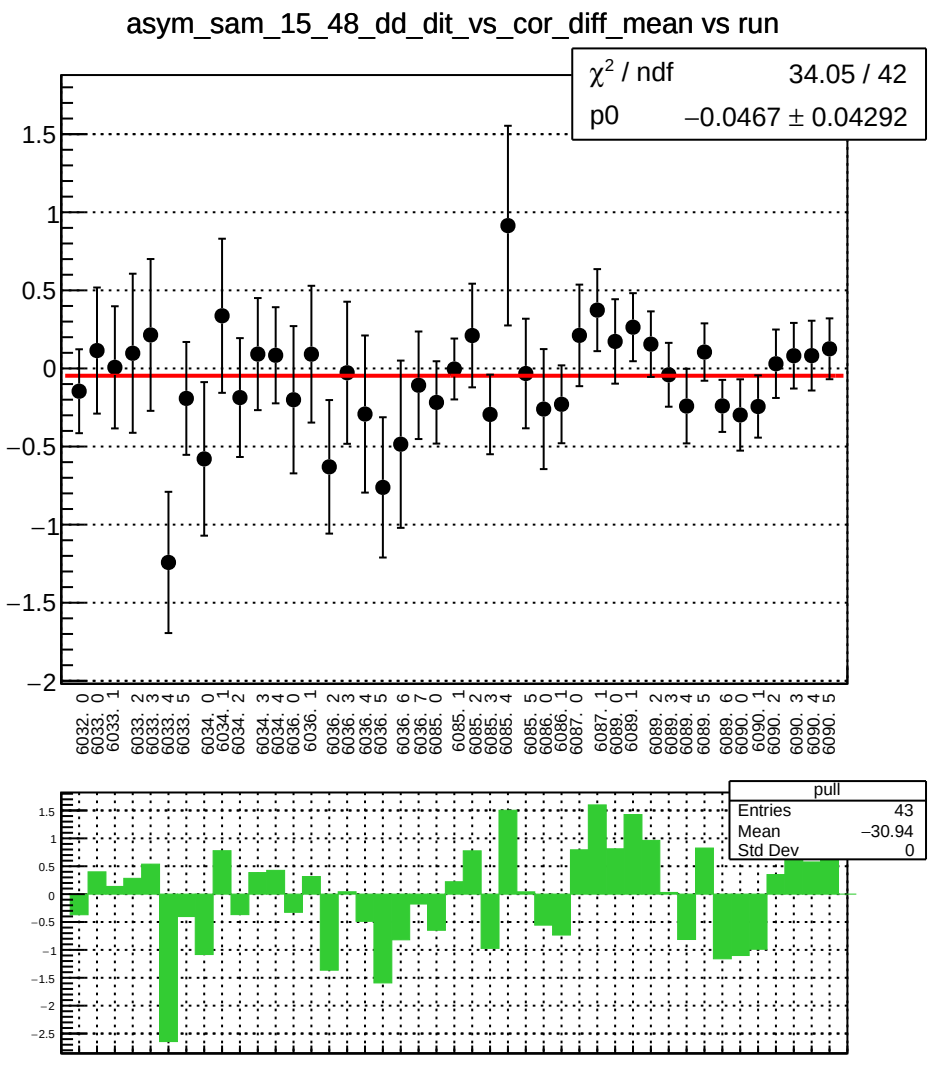

pull1D
Entries 43
Mean 0.02523
Std Dev 0.926
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

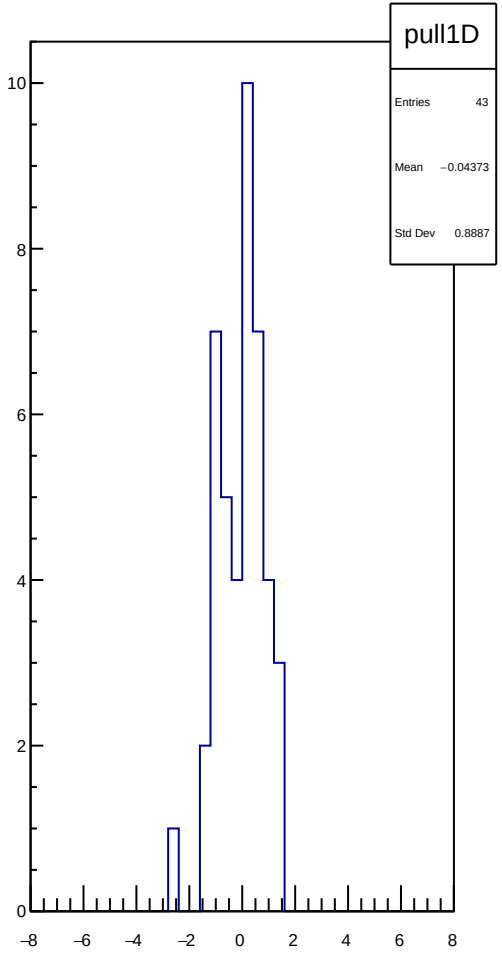

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.343e+04 / 42
p0 716.1 ± 0.7723
1000
950
900
850
800
750
700
650
600
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

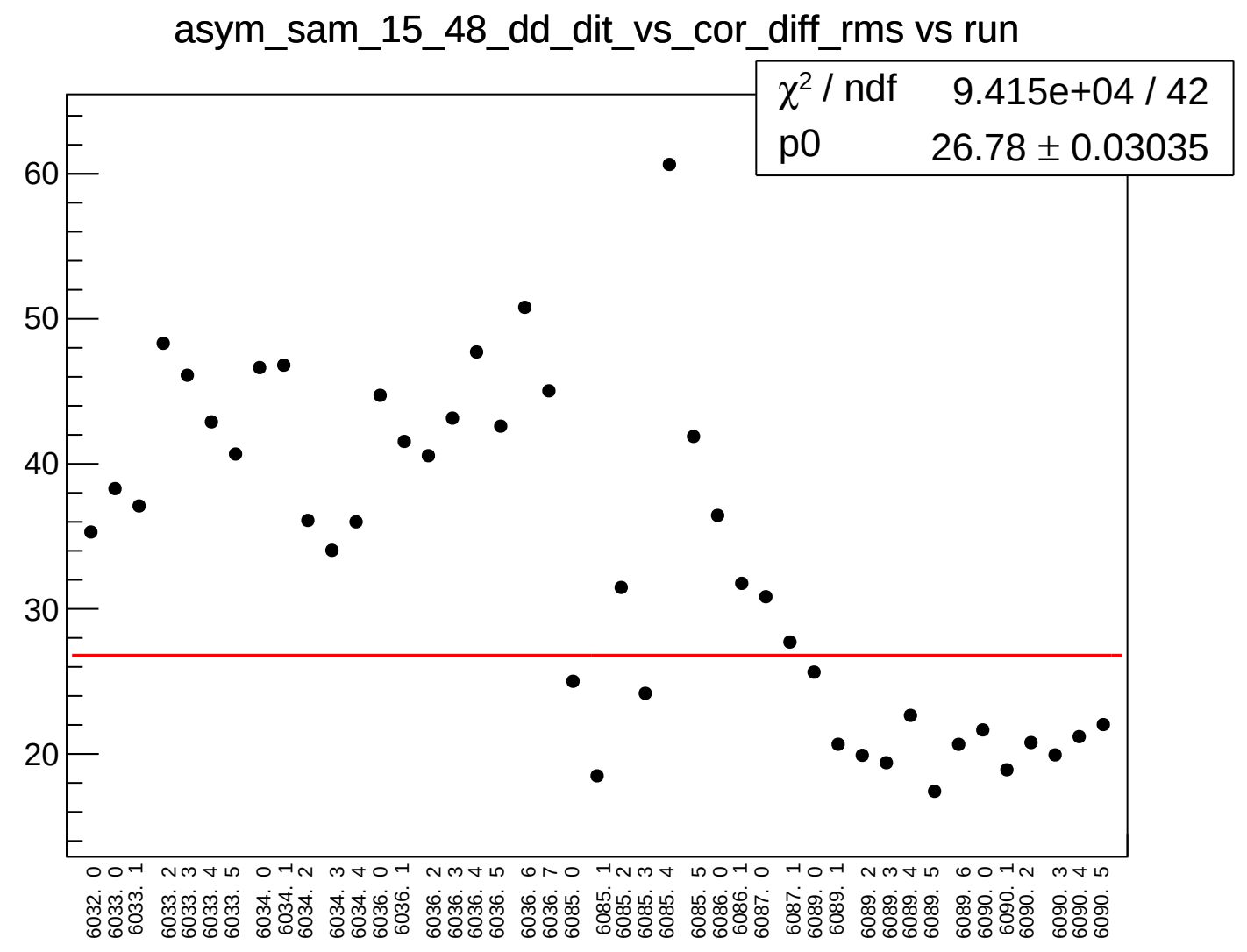

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 35.41 / 42
p0 −7.166e−15 ± 7.419e−14
pull
Entries 43
Mean −23.99
Std Dev 0

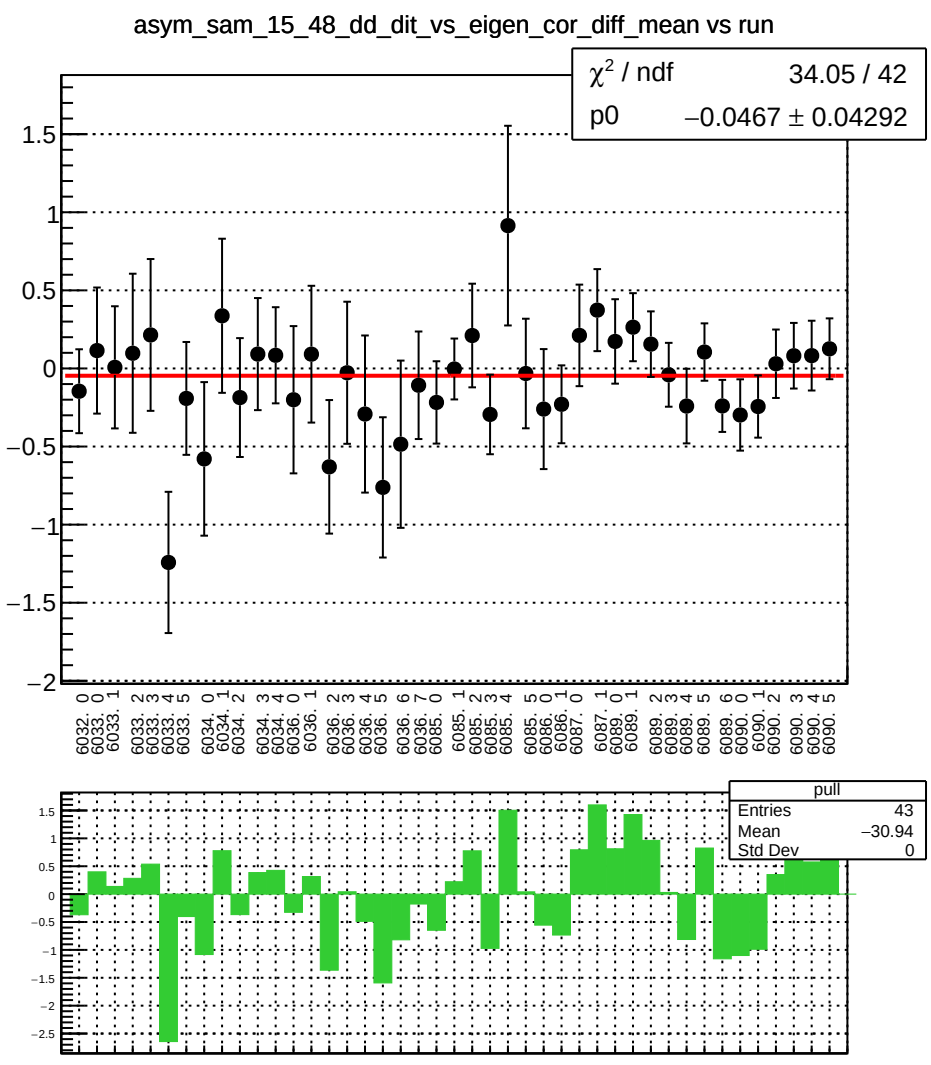

pull1D
Entries 43
Mean −0.03625
Std Dev 0.9067

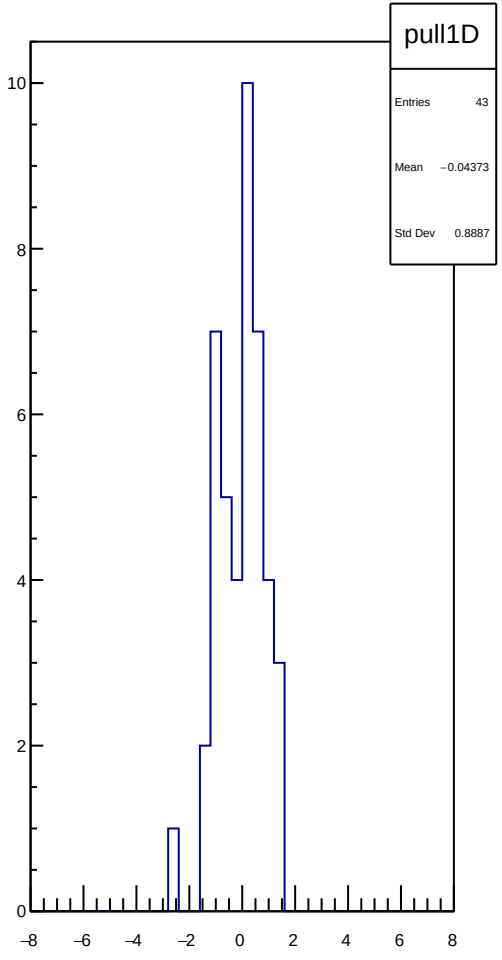

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.805e+05 / 42
p0 3.287e−11 ± 5.246e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

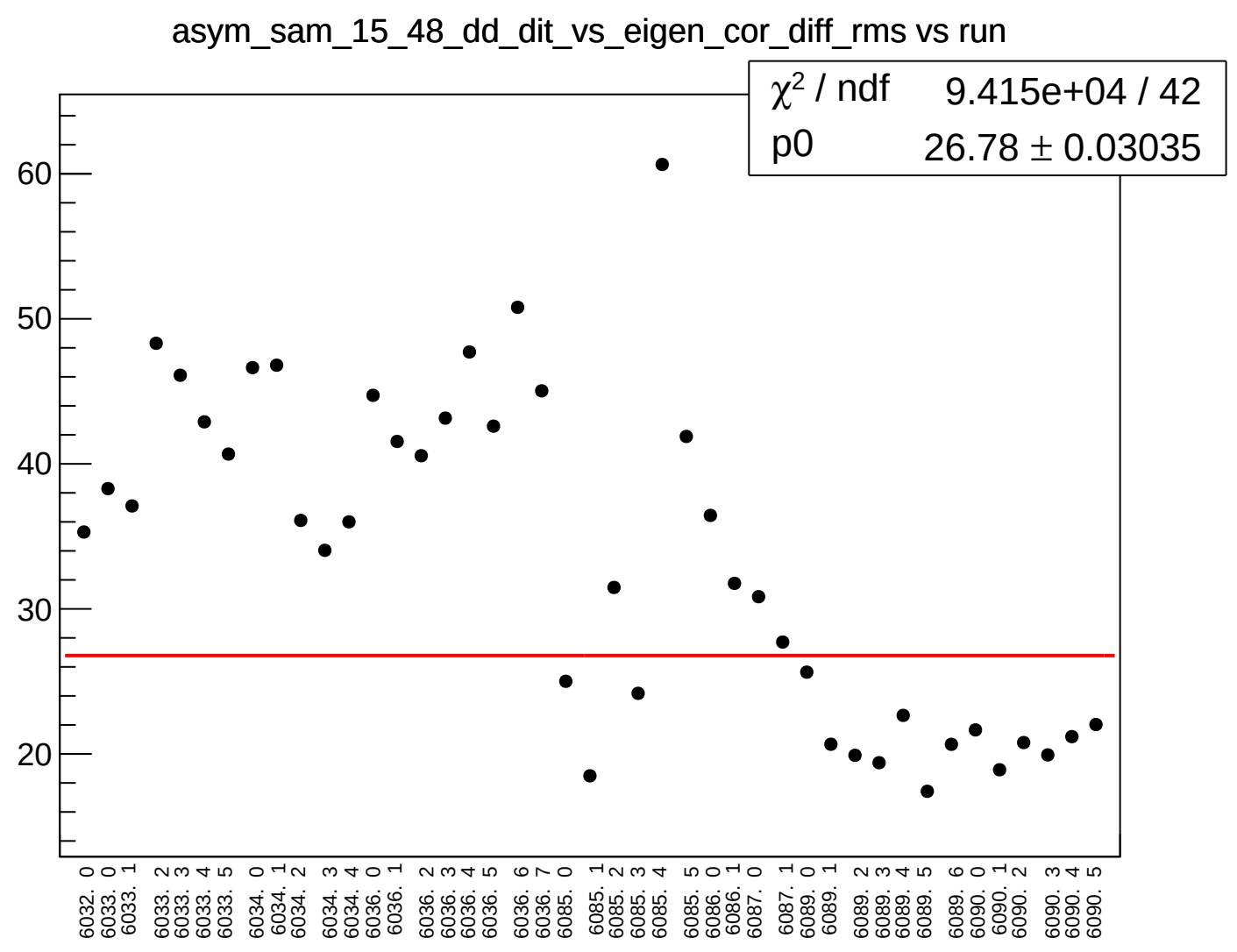

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.05 / 42
p0 −0.0467 ± 0.04292
pull
Entries 43
Mean −30.94
Std Dev 0

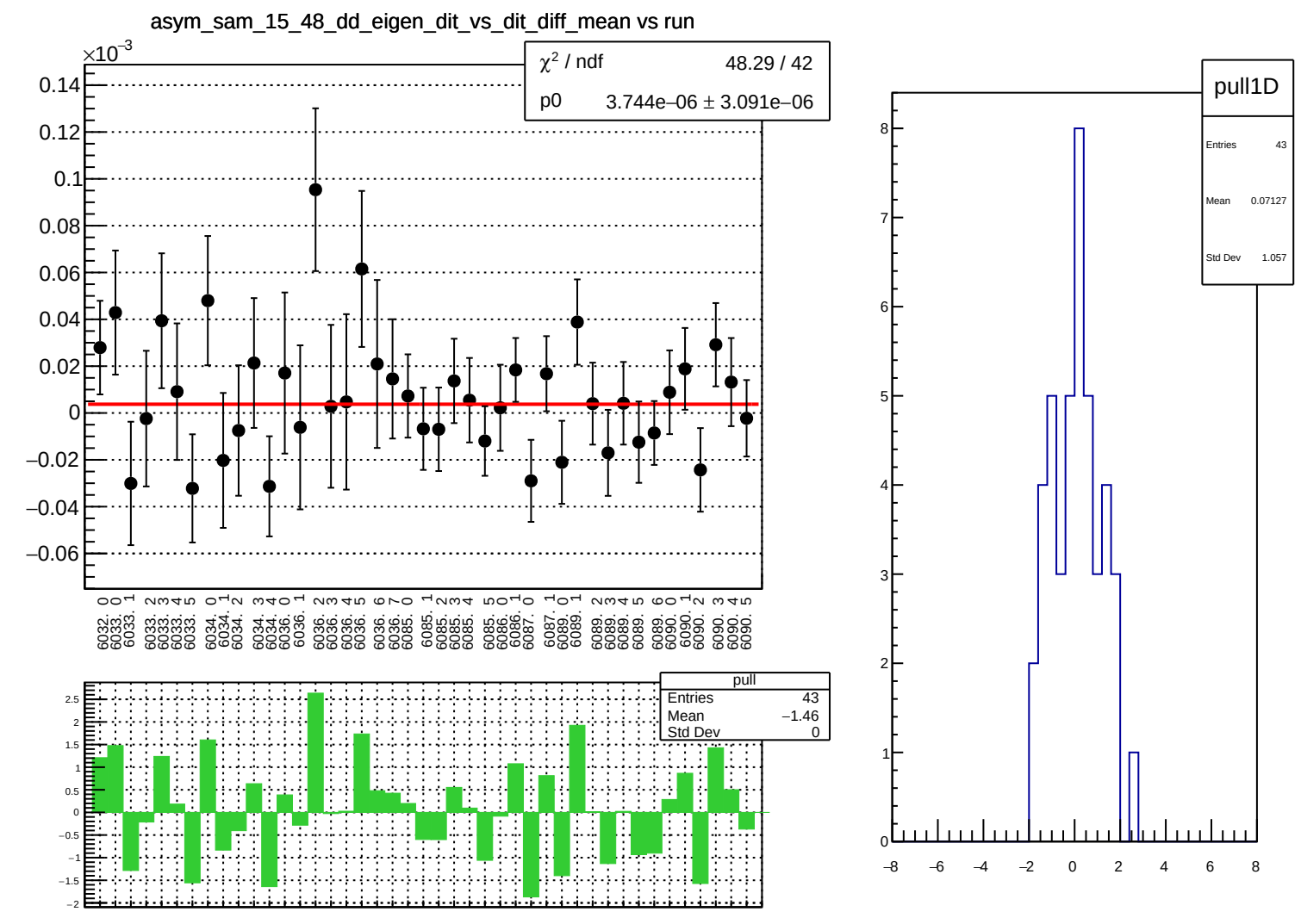

pull1D
Entries 43
Mean −0.04373
Std Dev 0.8887

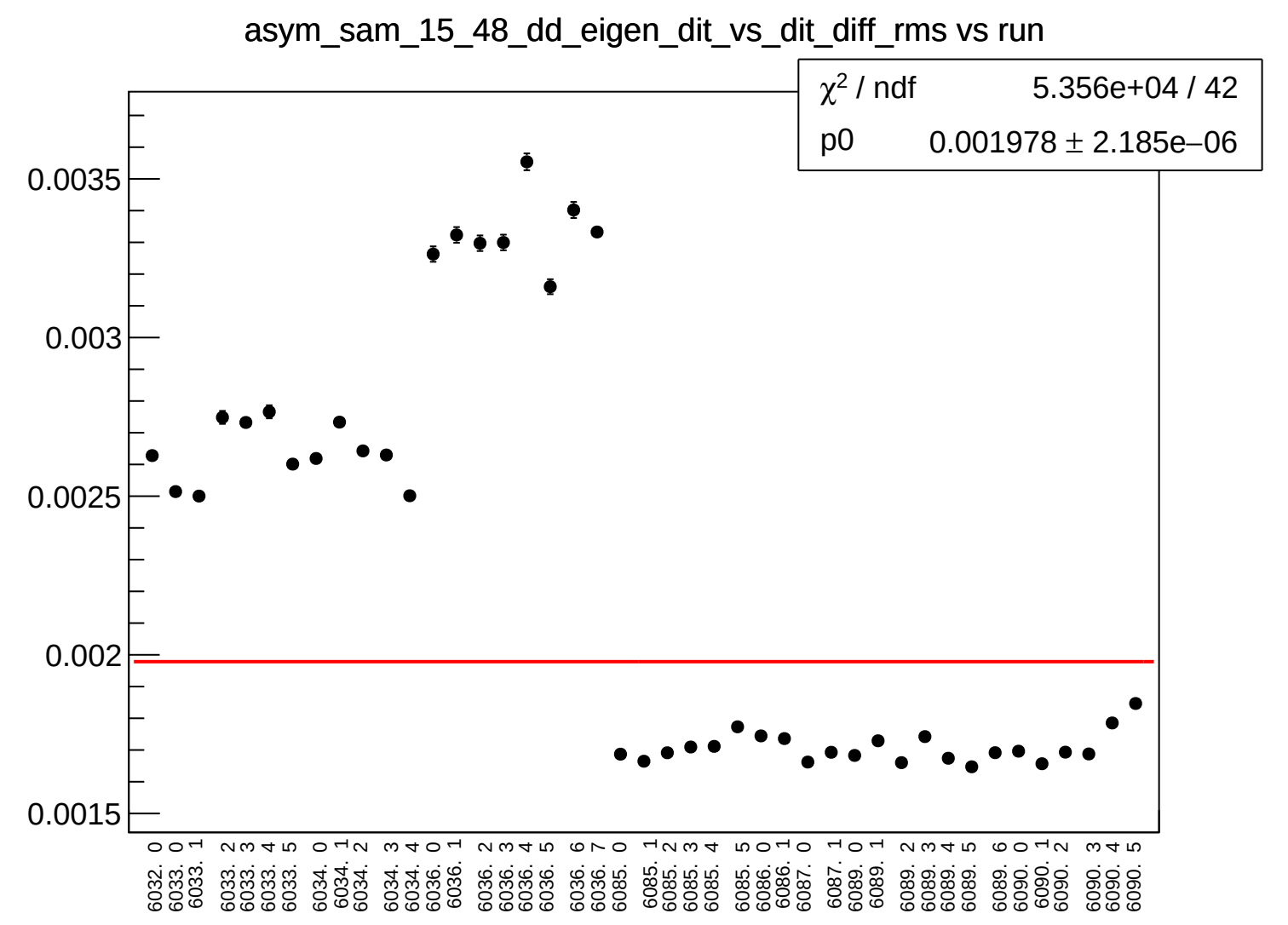

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.415e+04 / 42
p0 26.78 ± 0.03035
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

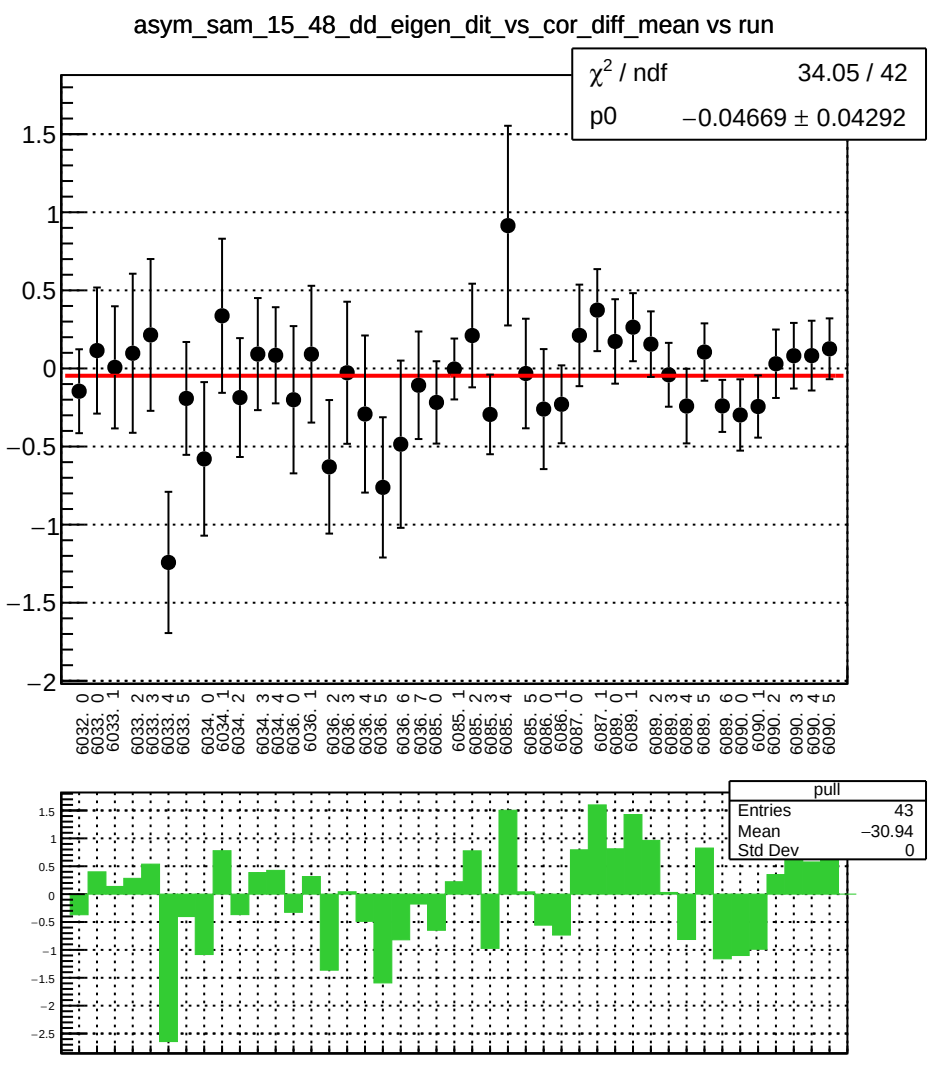

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.05 / 42
p0 −0.0467 ± 0.04292
pull
Entries 43
Mean −30.94
Std Dev 0

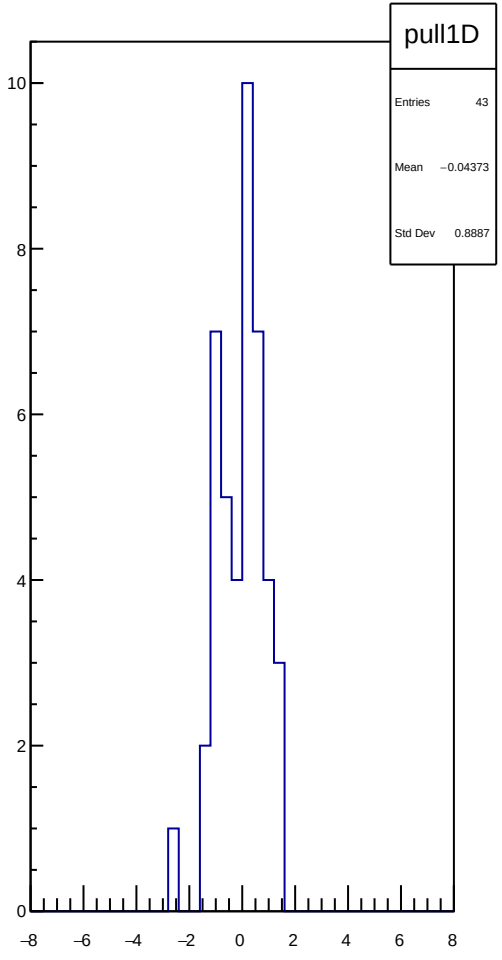

pull1D
Entries 43
Mean −0.04373
Std Dev 0.8887

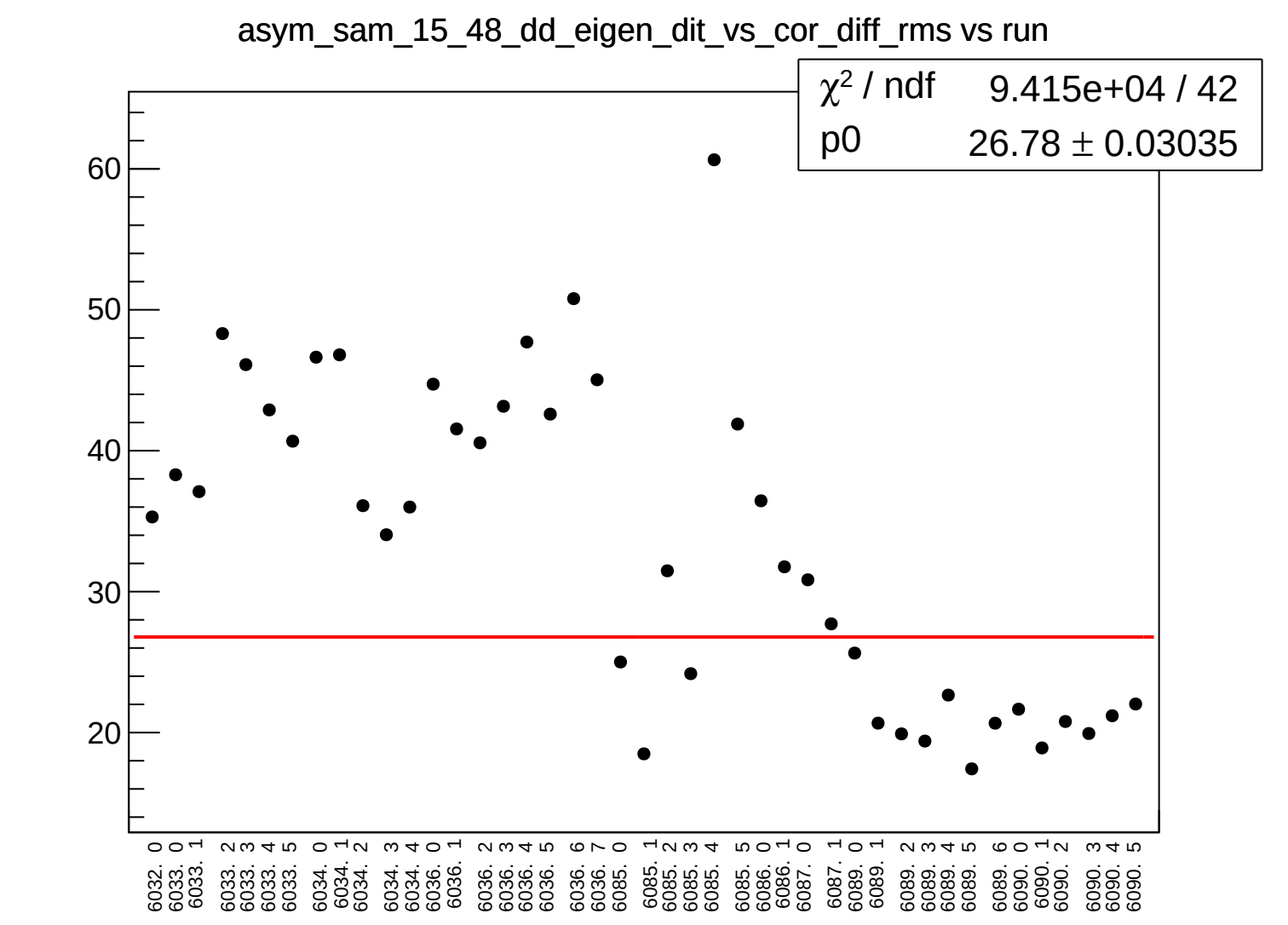

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.415e+04 / 42
p0 26.78 ± 0.03035
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

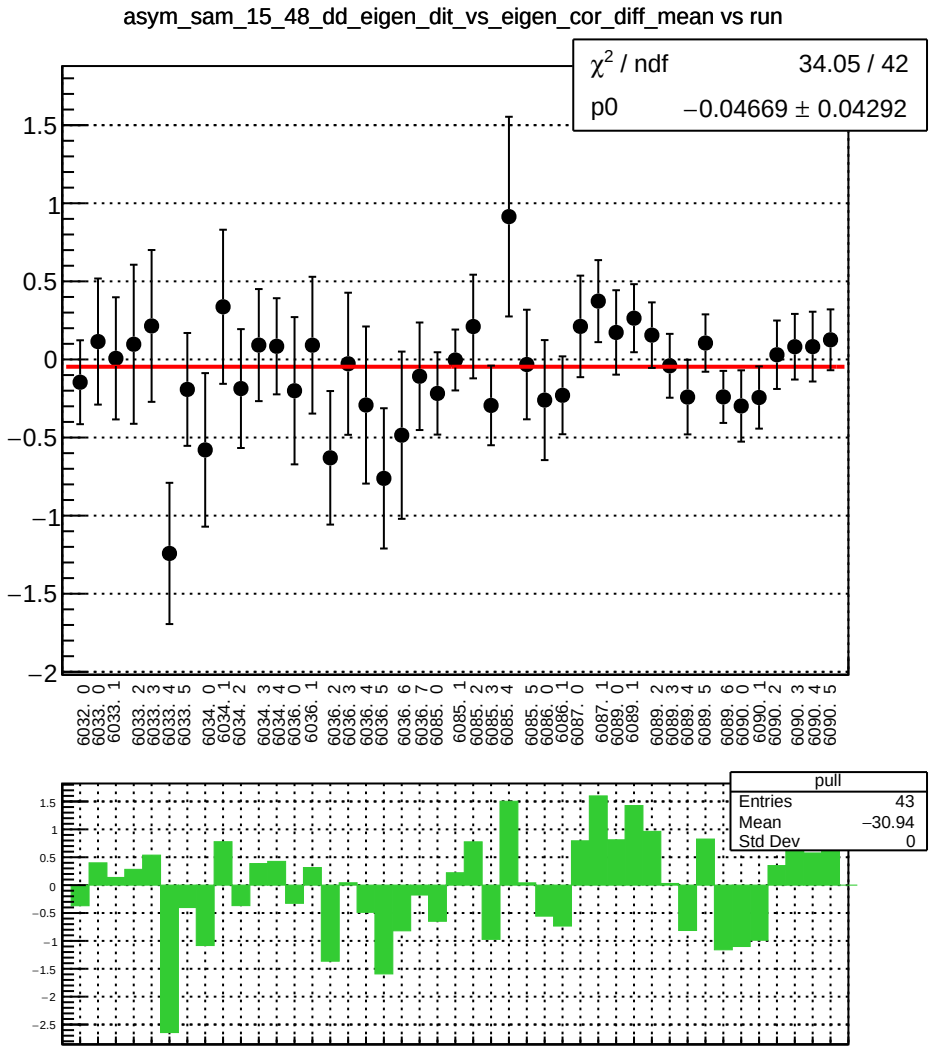

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 48.29 / 42
p0 3.744e−06 ± 3.091e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.07127
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

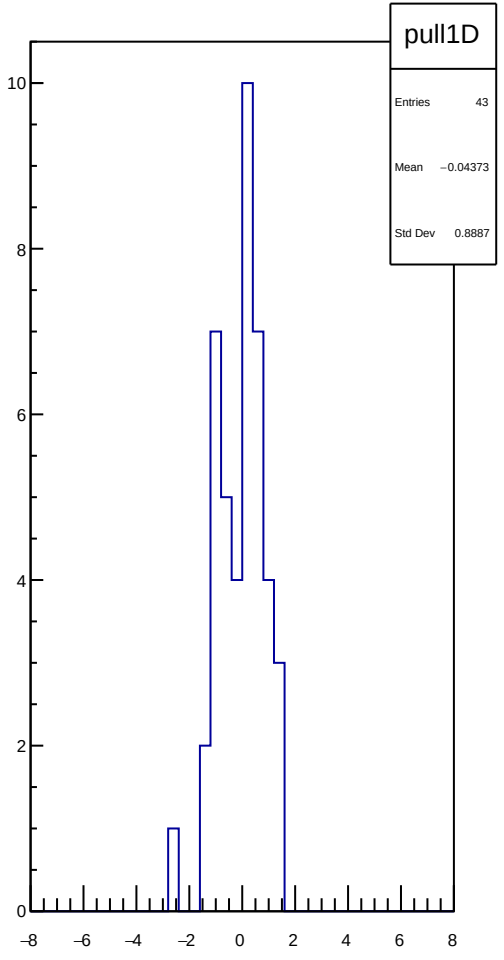

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.356e+04 / 42
p0 0.001978 ± 2.185e−06
0.0035
0.003
0.0025
0.002
0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

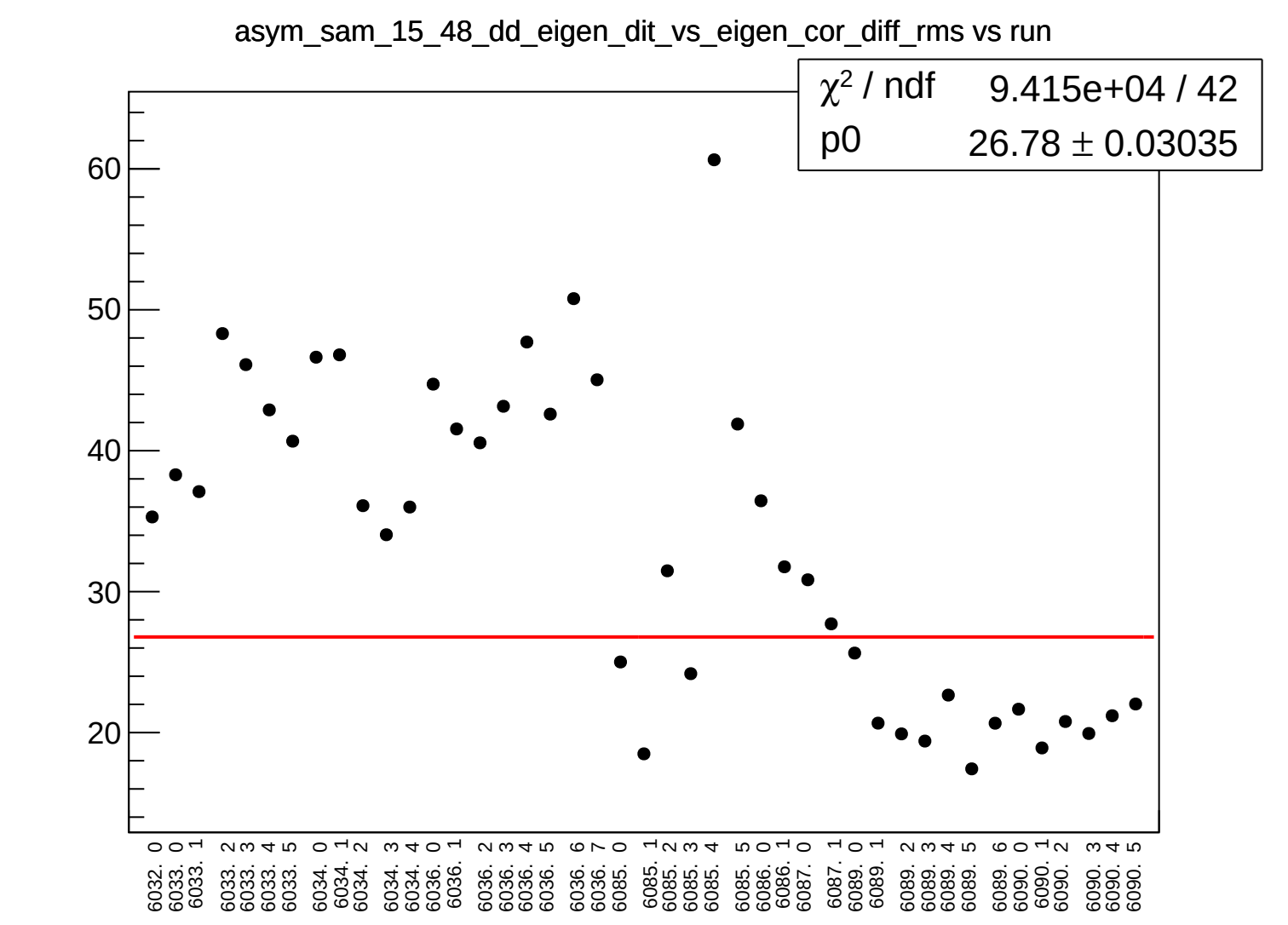

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.05 / 42
p0 −0.04669 ± 0.04292
pull
Entries 43
Mean −30.94
Std Dev 0

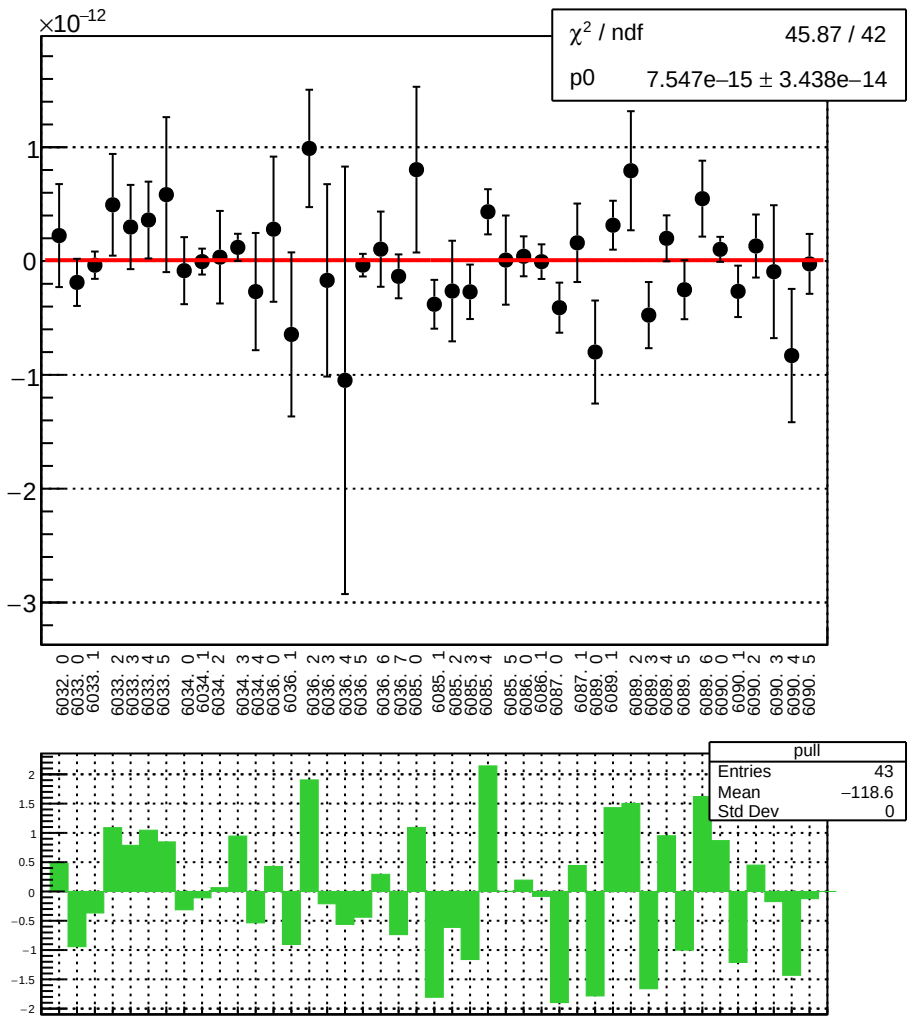

pull1D
Entries 43
Mean −0.04373
Std Dev 0.8887

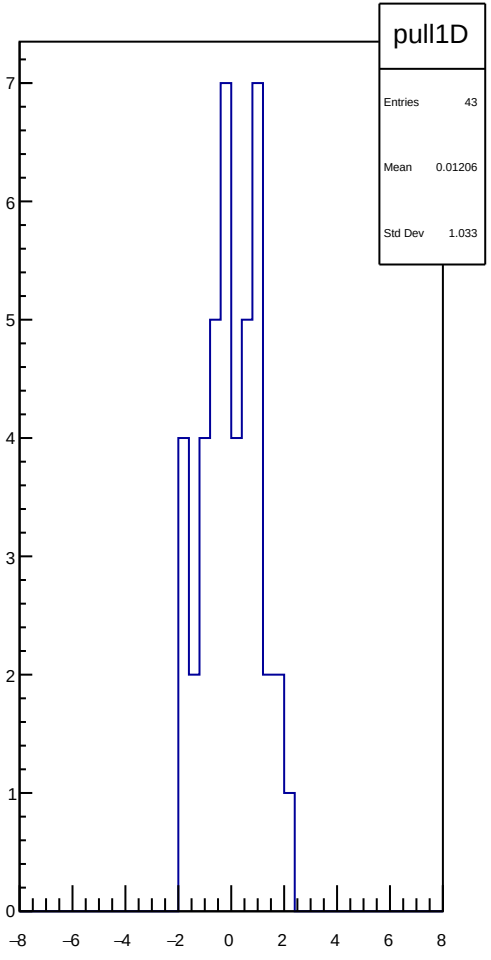

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.415e+04 / 42
p0 26.78 ± 0.03035
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

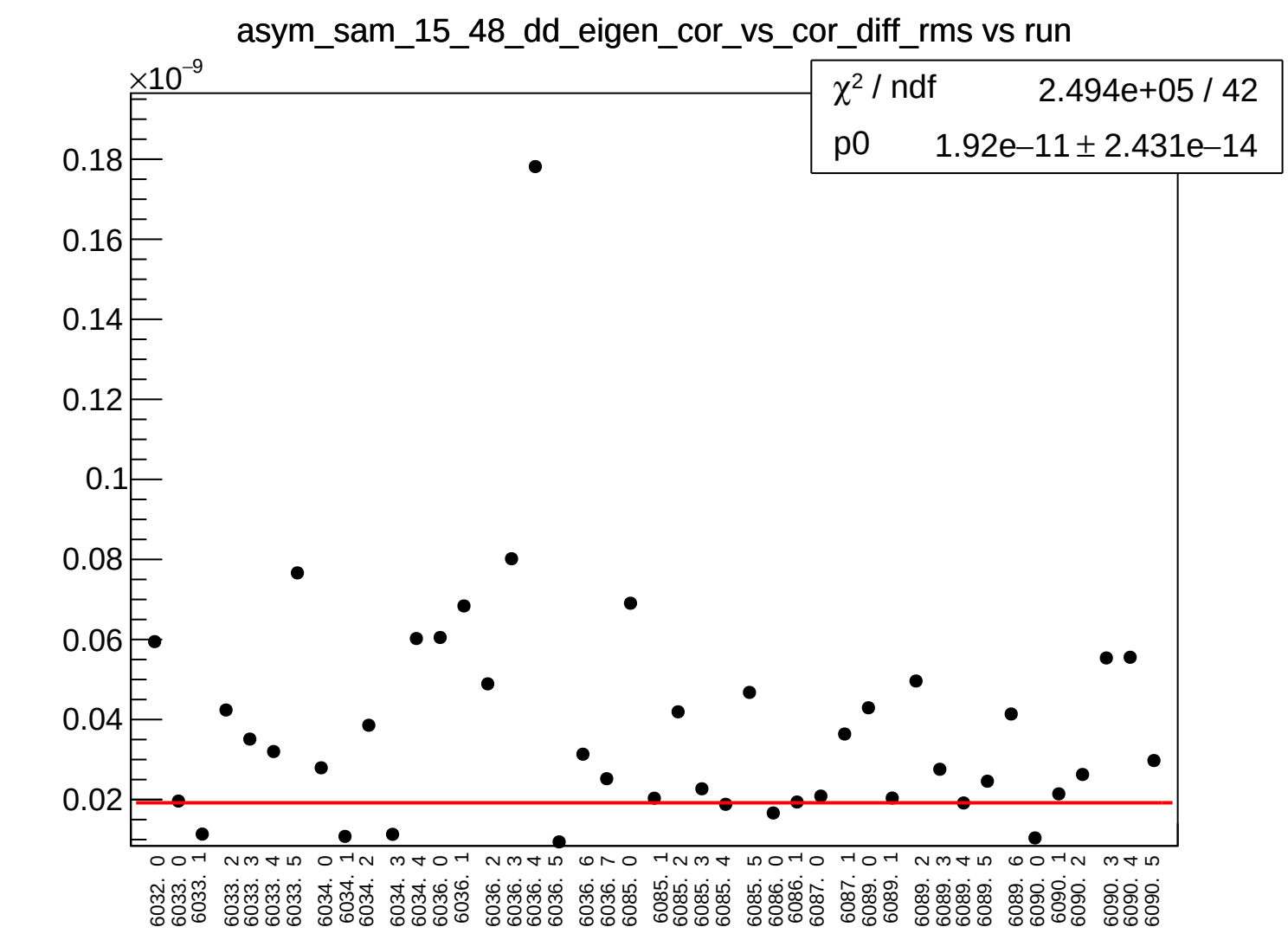

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.05 / 42
p0 −0.04669 ± 0.04292
pull
Entries 43
Mean −30.94
Std Dev 0

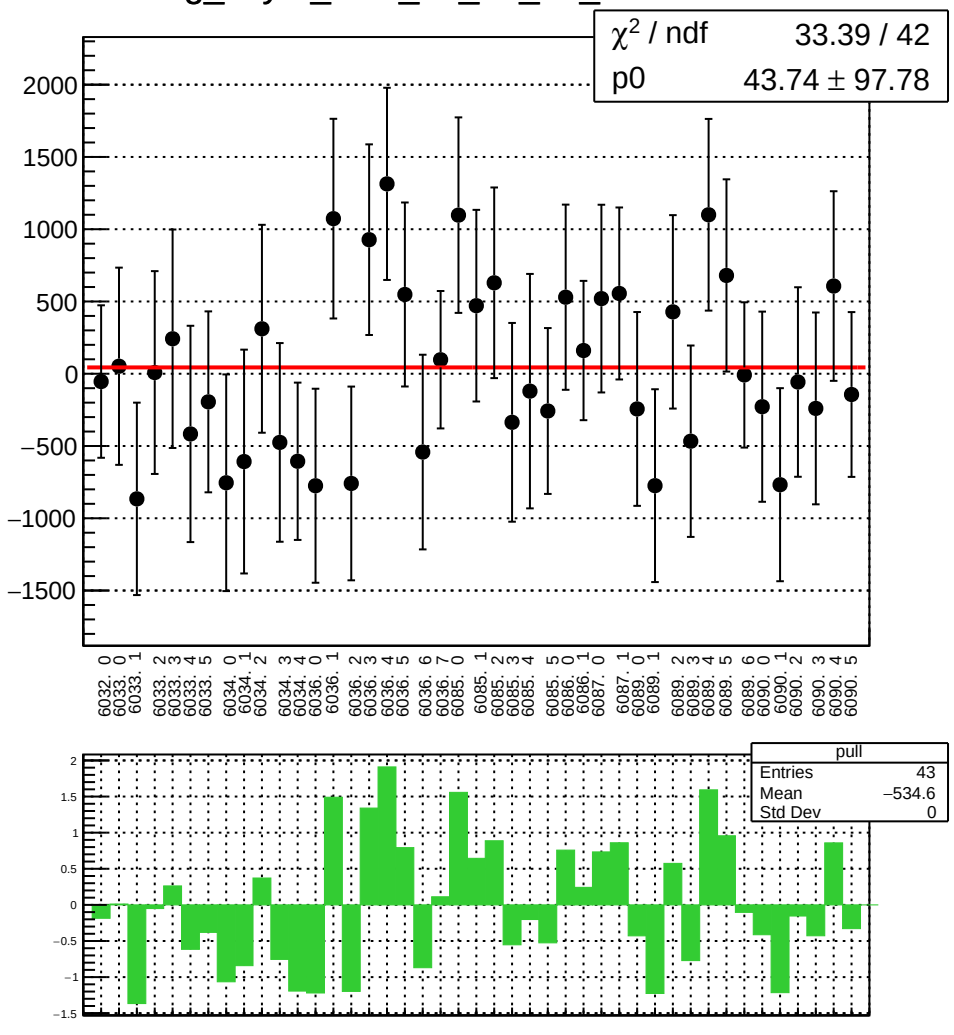

pull1D
Entries 43
Mean −0.04373
Std Dev 0.8887

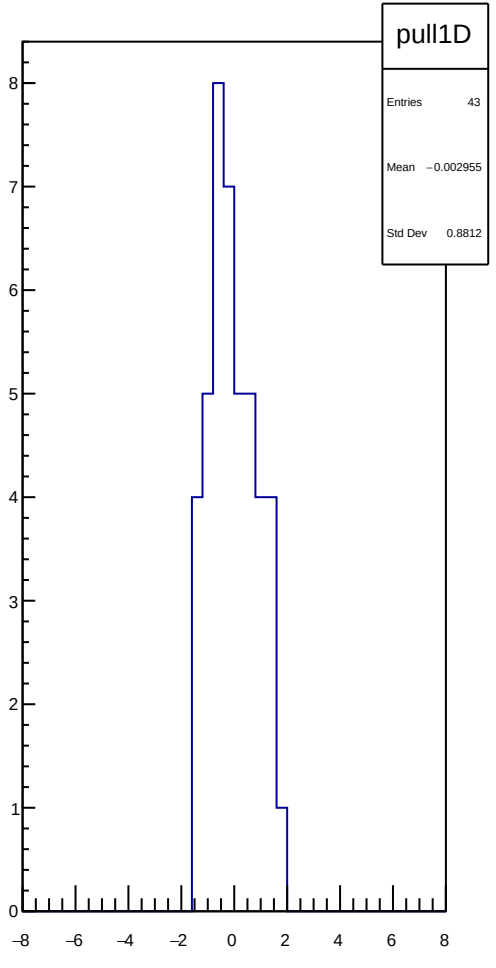

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.415e+04 / 42
p0 26.78 ± 0.03035
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

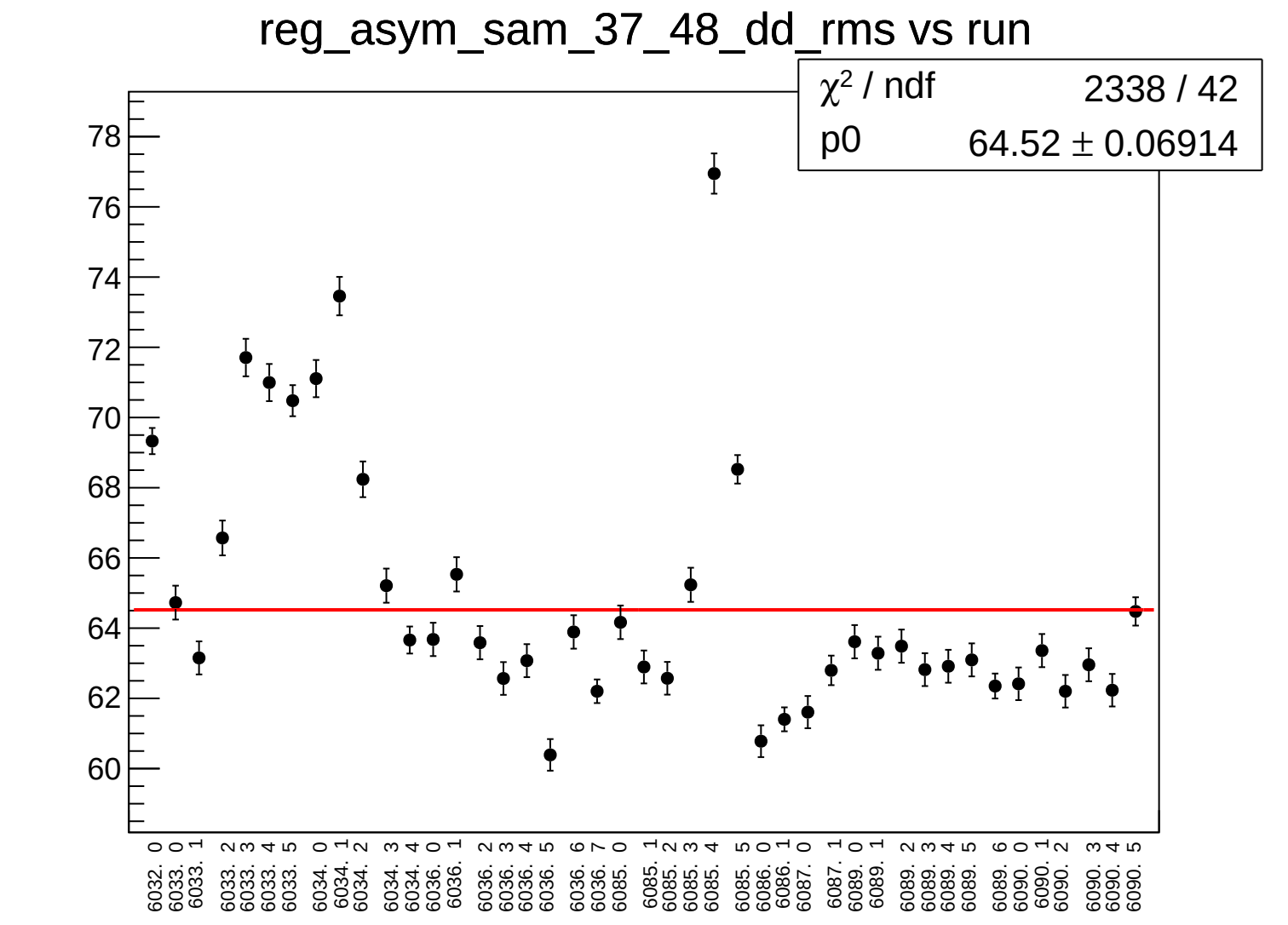

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.87 / 42
p0 7.547e−15 ± 3.438e−14
1
0
−1
−2
−3
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −118.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

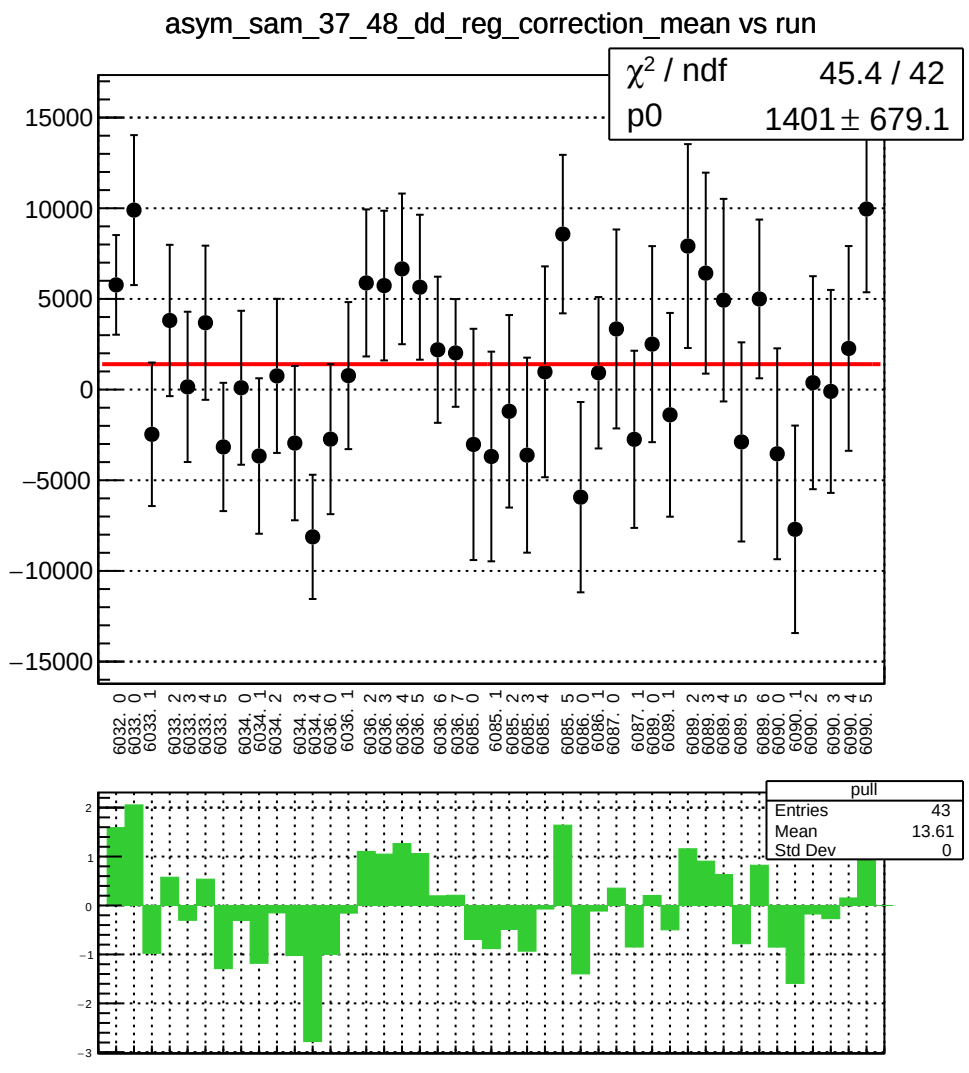

pull1D
Entries 43
Mean 0.01206
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

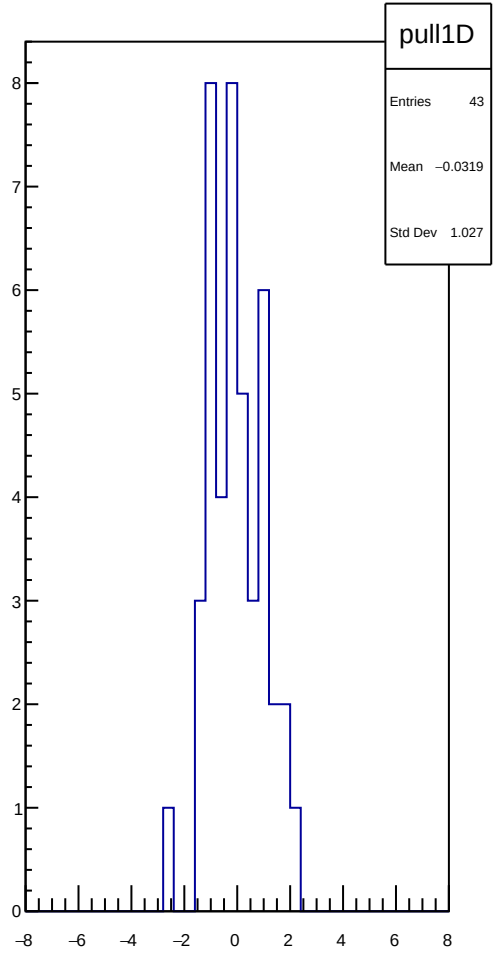

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.494e+05 / 42
p0 1.92e−11 ± 2.431e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

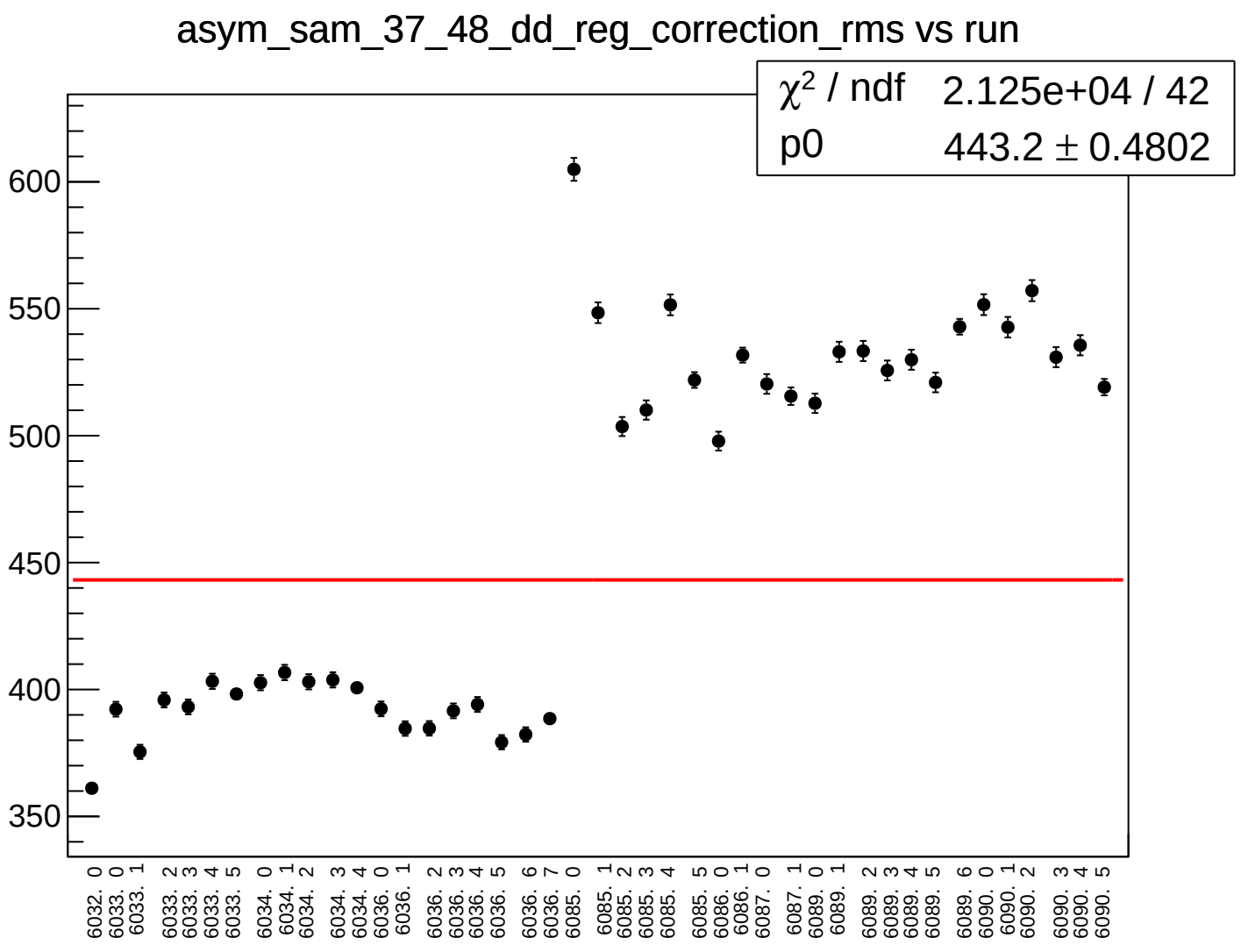

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 33.39 / 42
p0 43.74 ± 97.78
pull
Entries 43
Mean −534.6
Std Dev 0

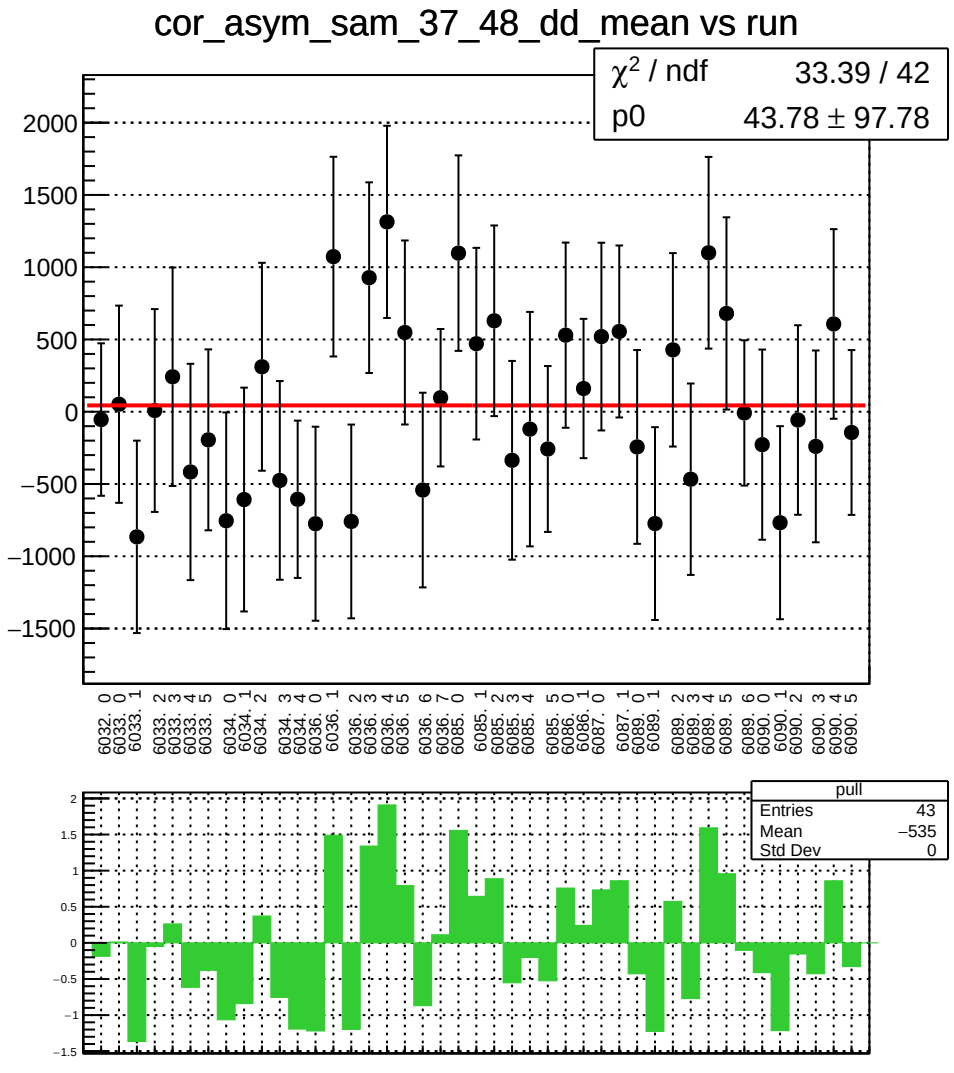

pull1D
Entries 43
Mean −0.002955
Std Dev 0.8812

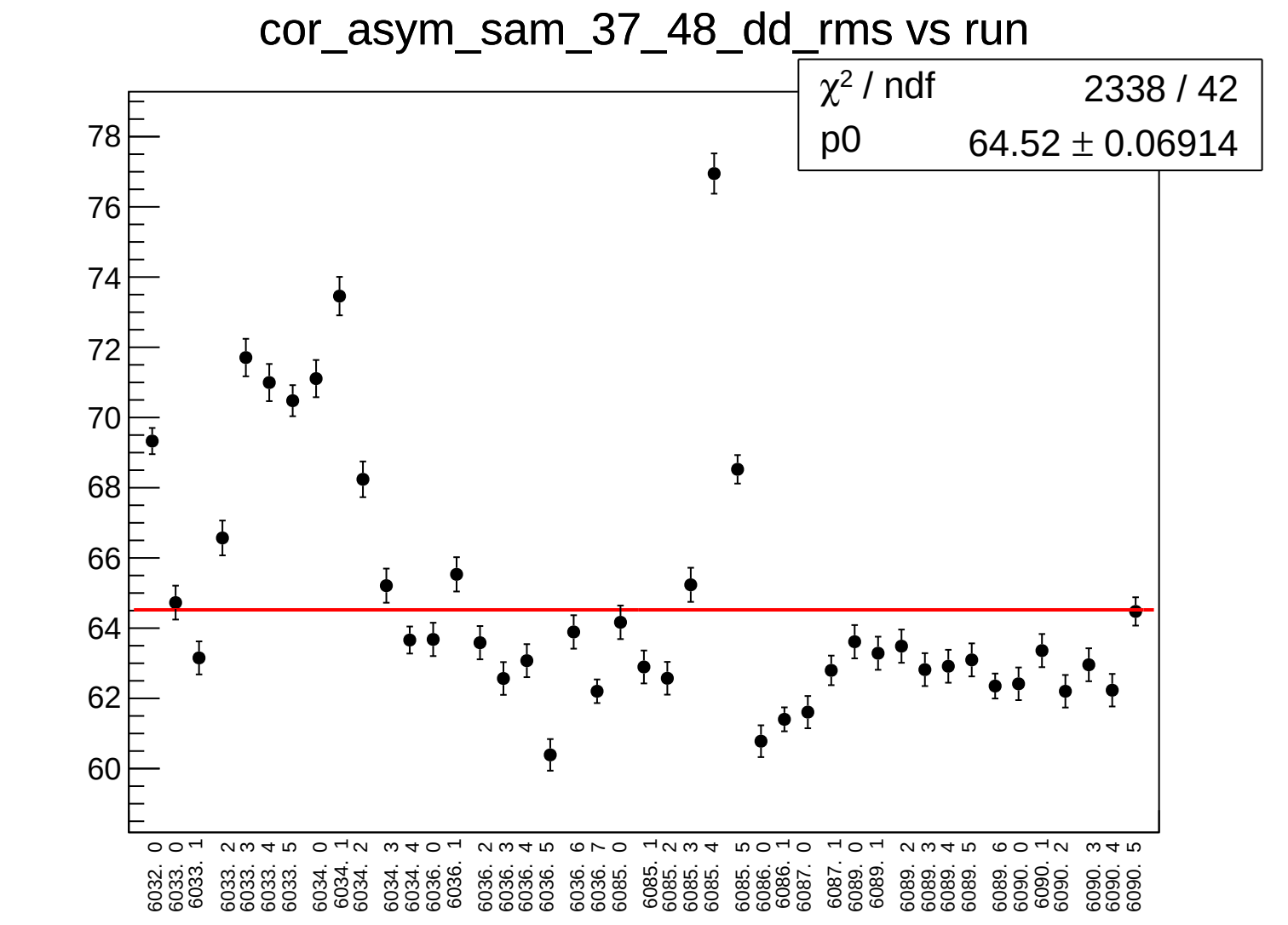

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2338 / 42
p0 64.52 ± 0.06914
78
76
74
72
70
68
66
64
62
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

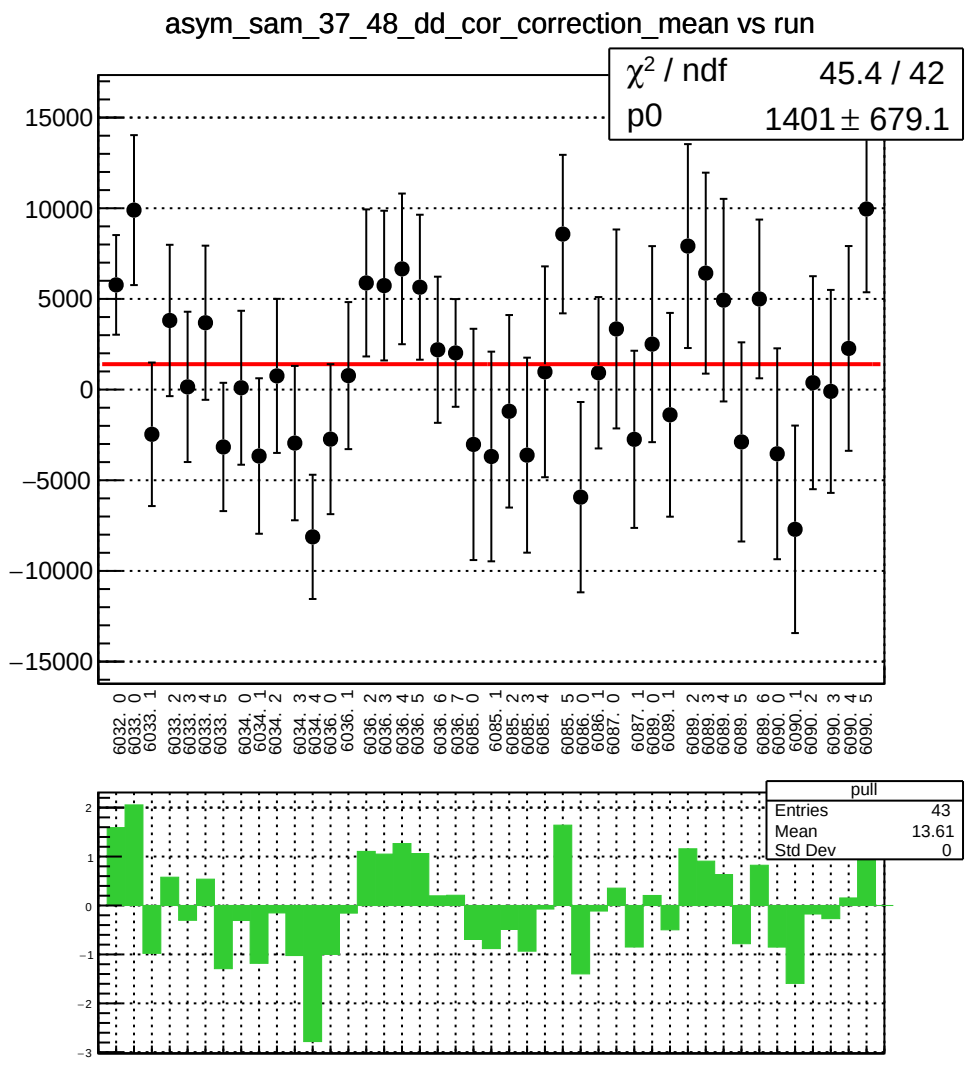

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 45.4 / 42
p0 1401 ± 679.1
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.61
Std Dev 0
2
1
0
−1
−2
−3

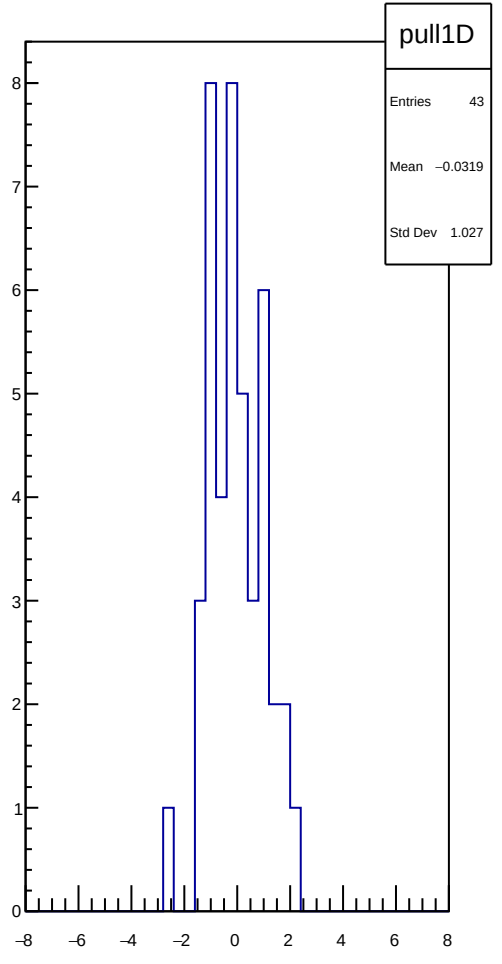

pull1D
Entries 43
Mean −0.0319
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

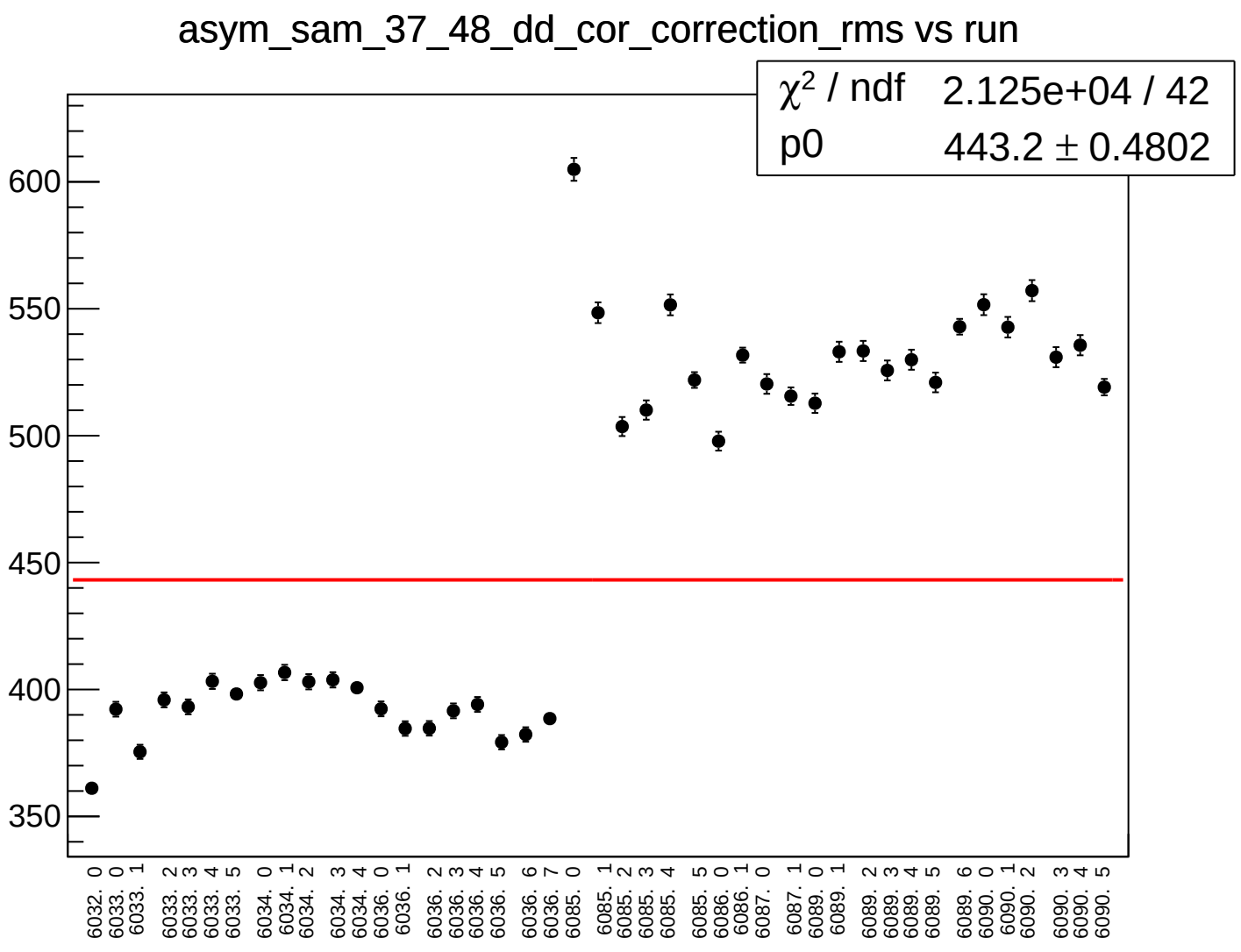

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2.125e+04 / 42
p0 443.2 ± 0.4802
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

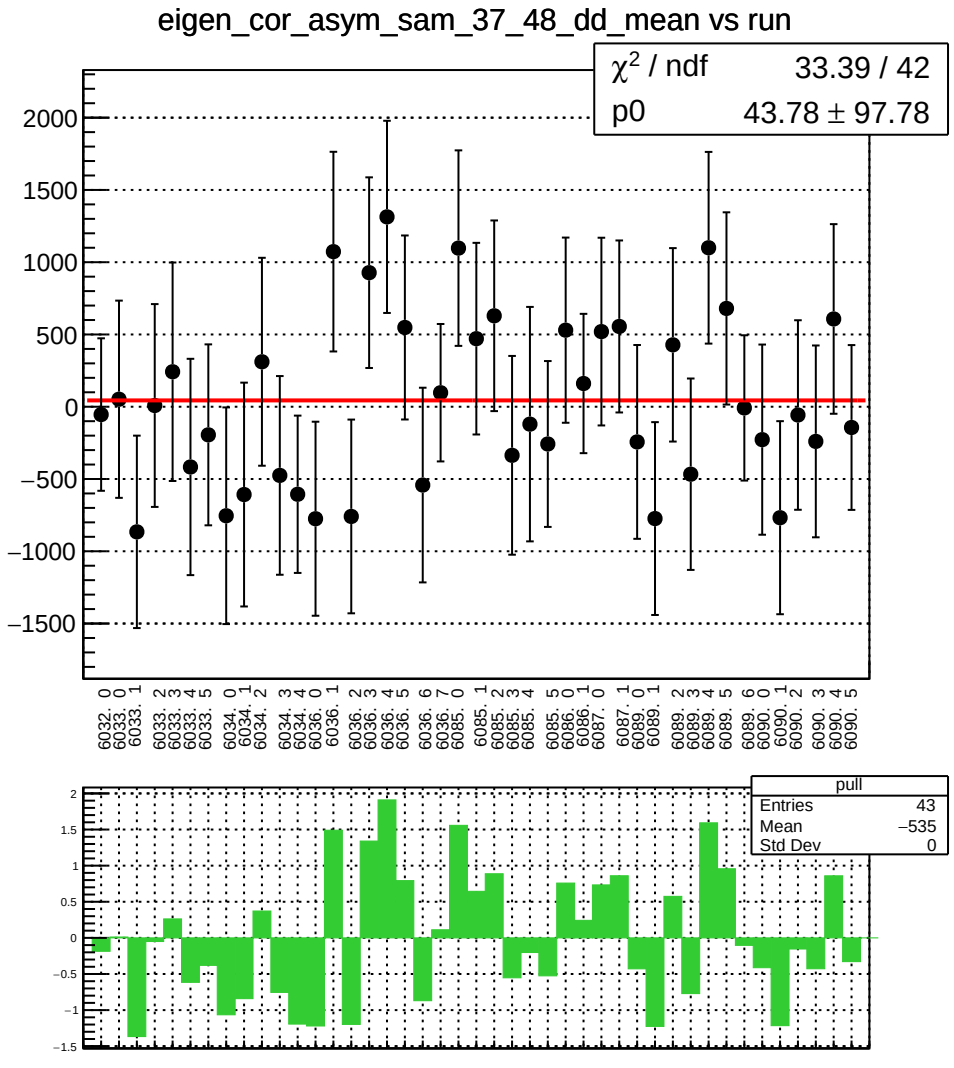

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 33.39 / 42
p0 43.78 ± 97.78
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −535
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.002955
Std Dev 0.8812
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

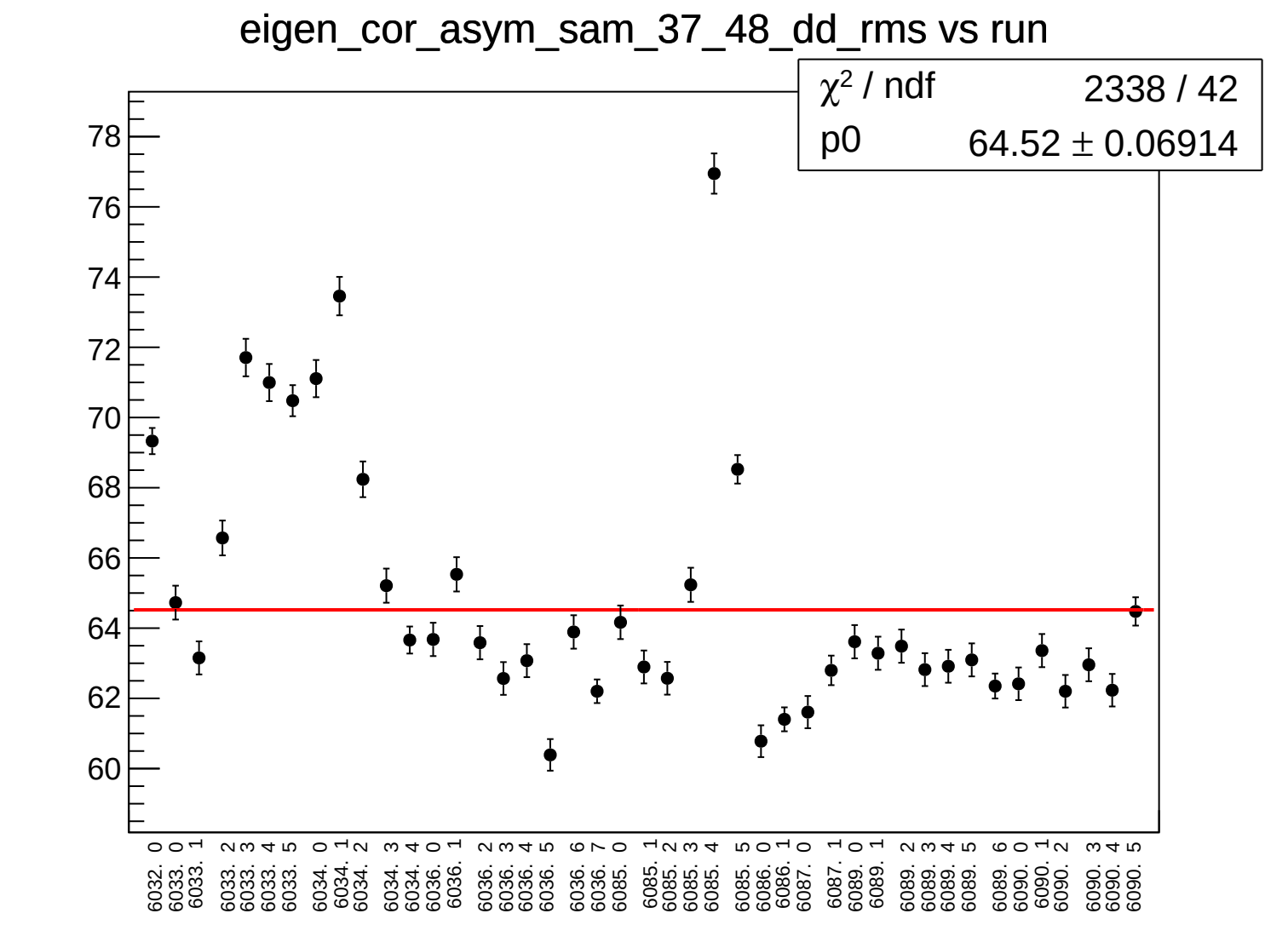

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2338 / 42
p0 64.52 ± 0.06914
78
76
74
72
70
68
66
64
62
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 45.4 / 42
p0 1401 ± 679.1
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.61
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0319
Std Dev 1.027
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 2.125e+04 / 42
p0 443.2 ± 0.4802
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 33.39 / 42
p0 43.78 ± 97.78
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −535
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.002955
Std Dev 0.8812
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2338 / 42
p0 64.52 ± 0.06914
78
76
74
72
70
68
66
64
62
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
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6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 6
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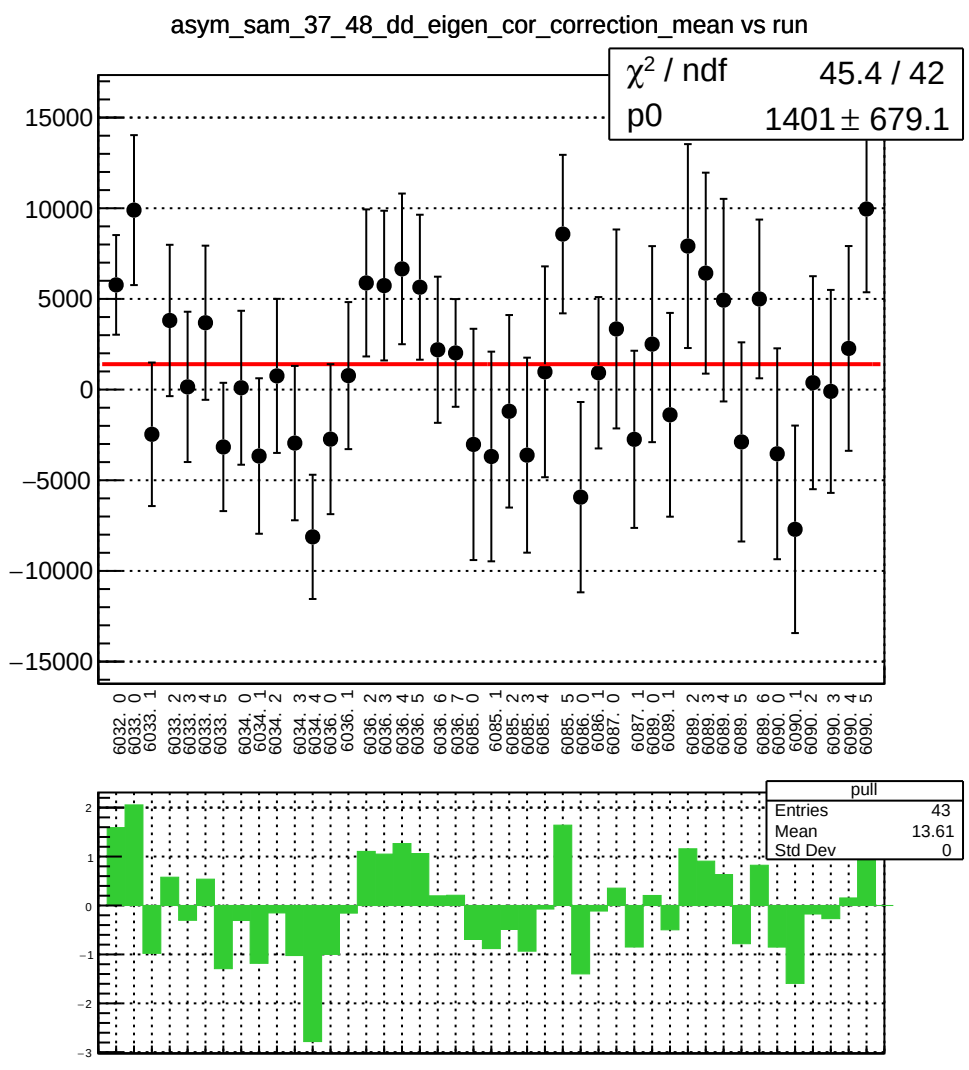
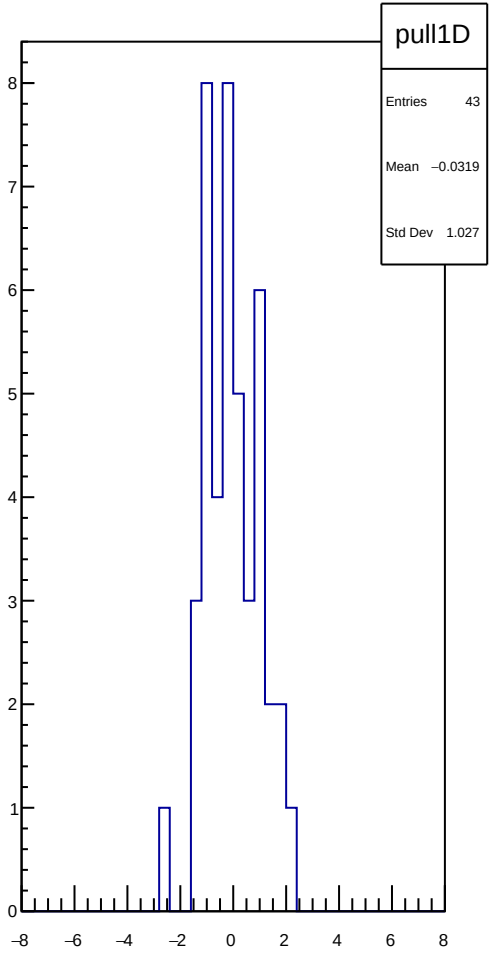
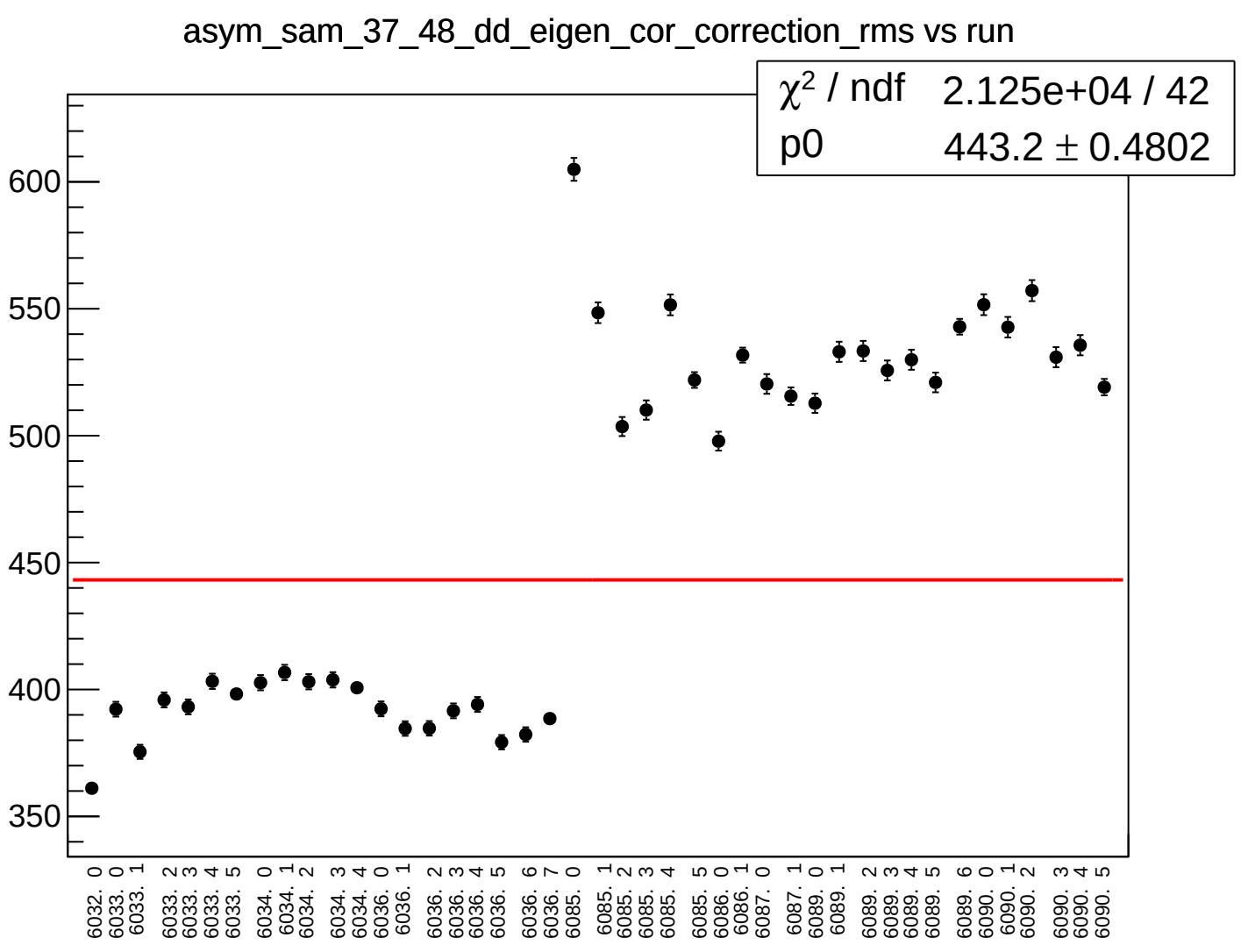
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.4 / 42
p0 1401 ± 679.1
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.61
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0319
Std Dev 1.027
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 2.125e+04 / 42
p0 443.2 ± 0.4802
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
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6036. 5
6036. 6
6036. 7
6085. 0
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6086. 0
6086. 1
6087. 0
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6089. 6
6090. 0
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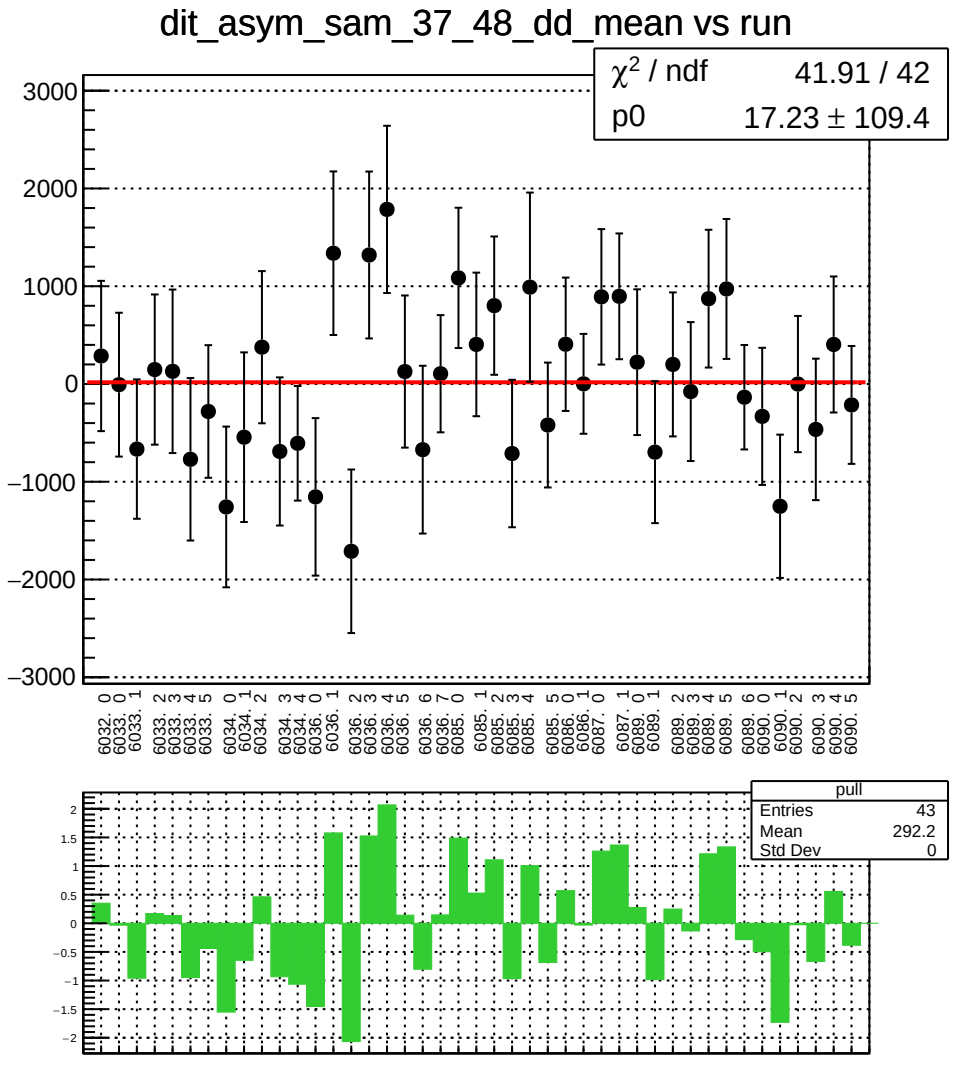
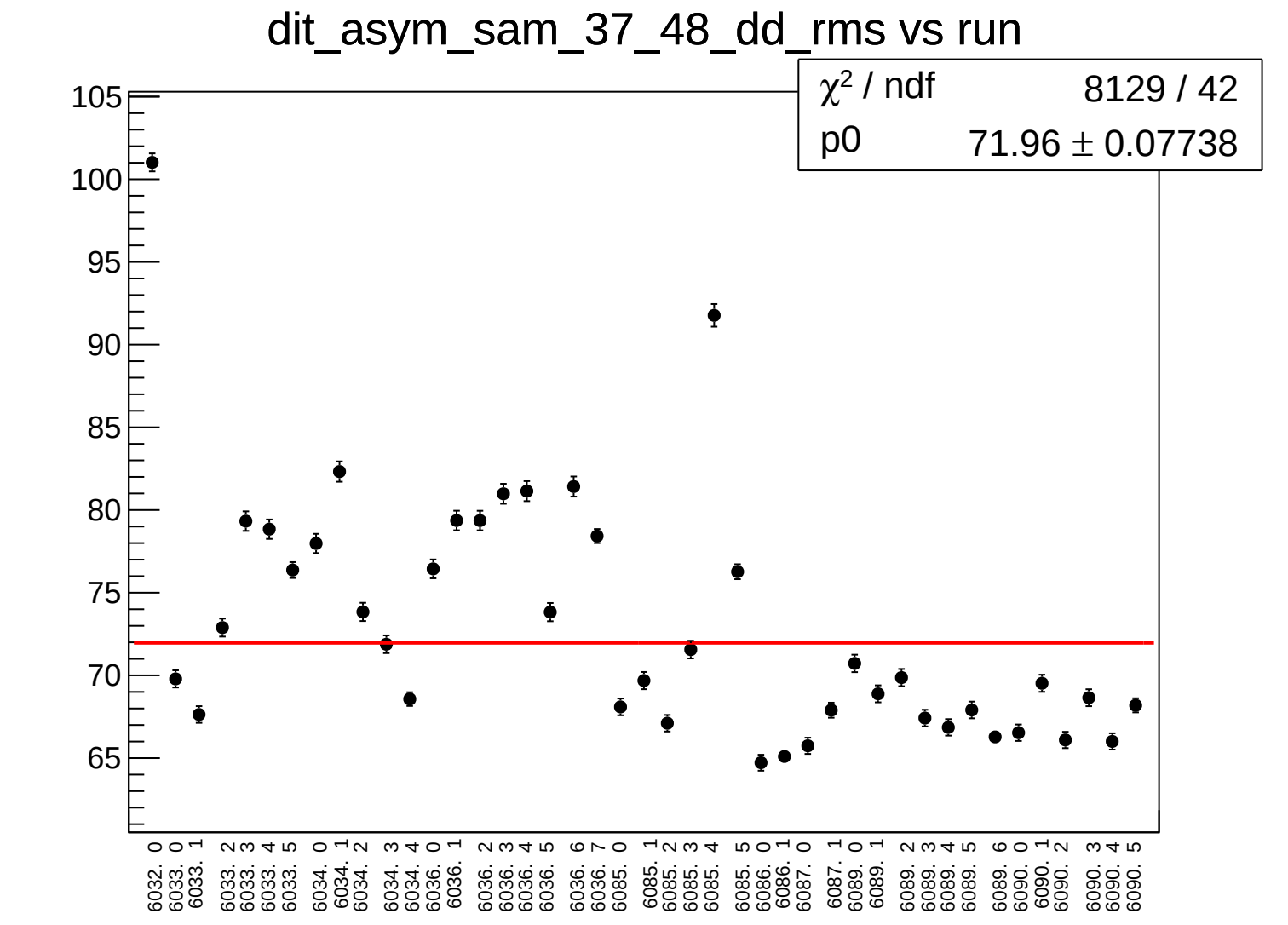
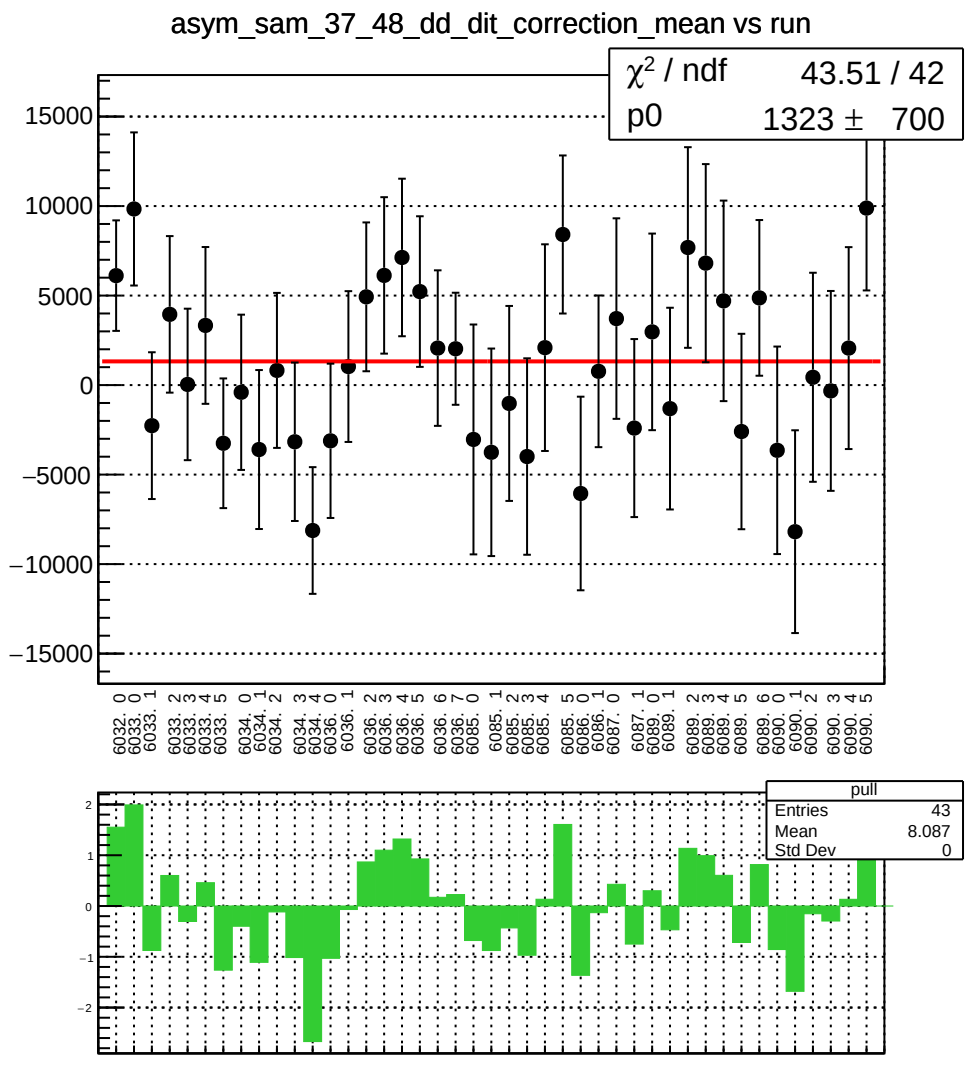
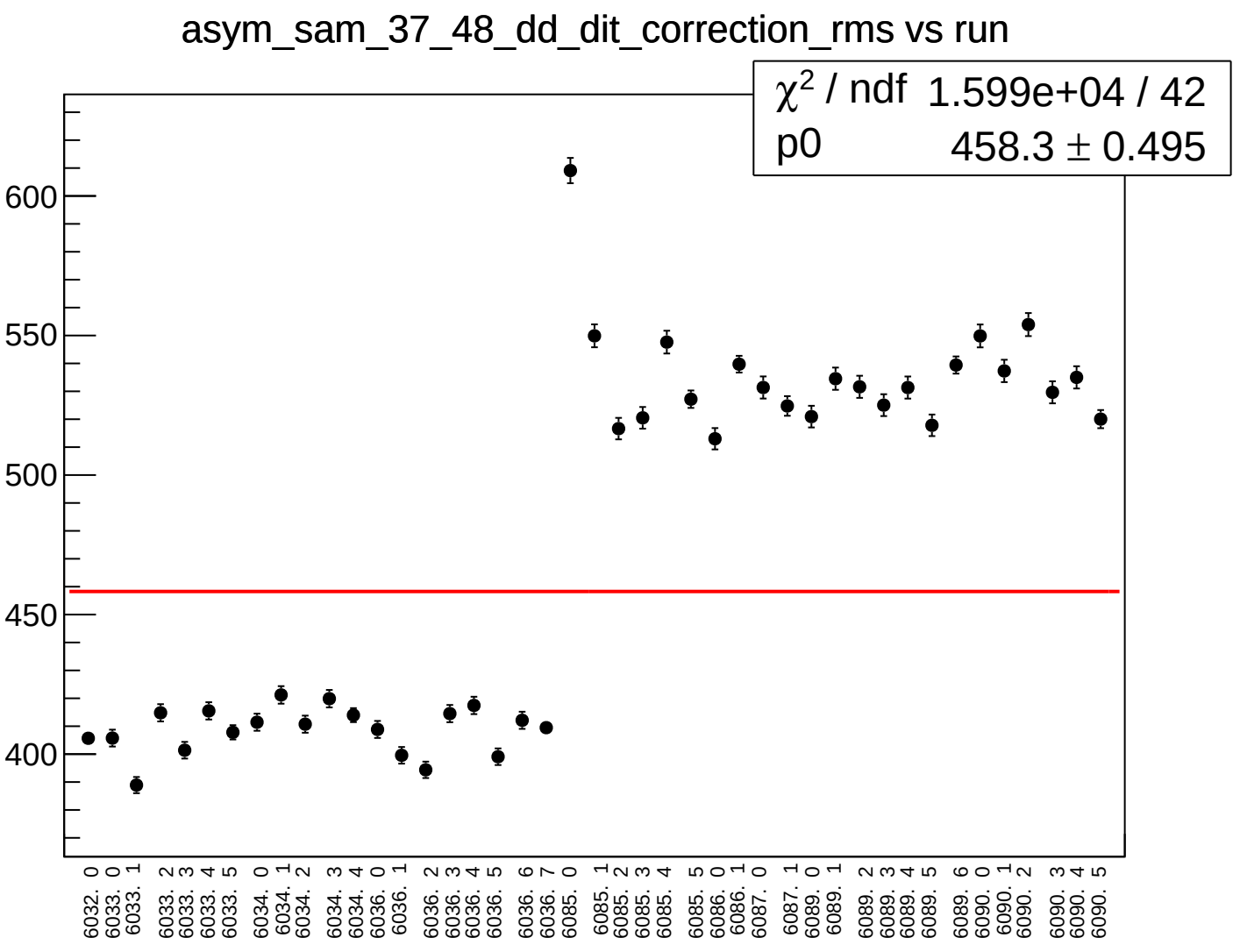
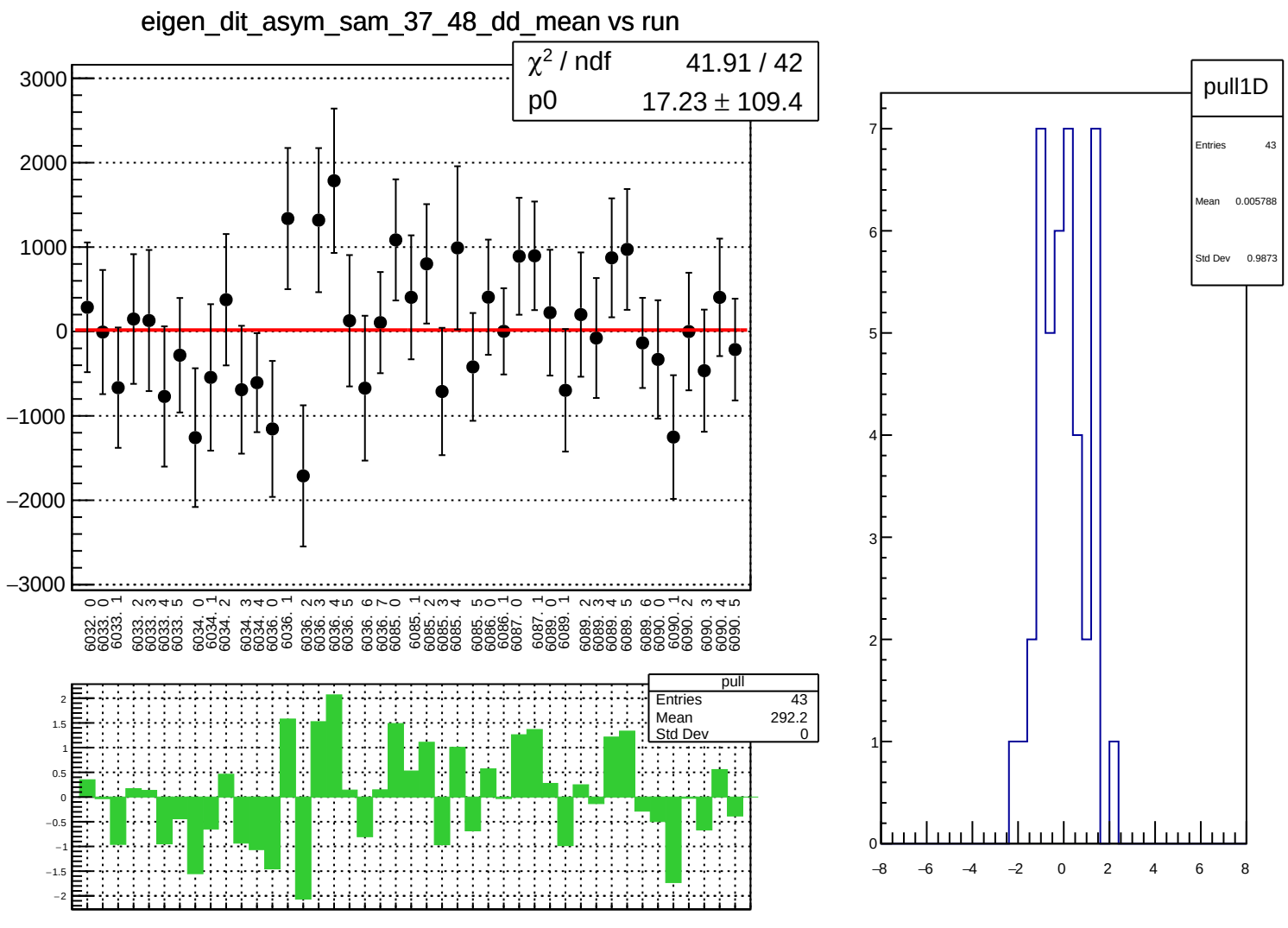
6090. 4
6090. 5

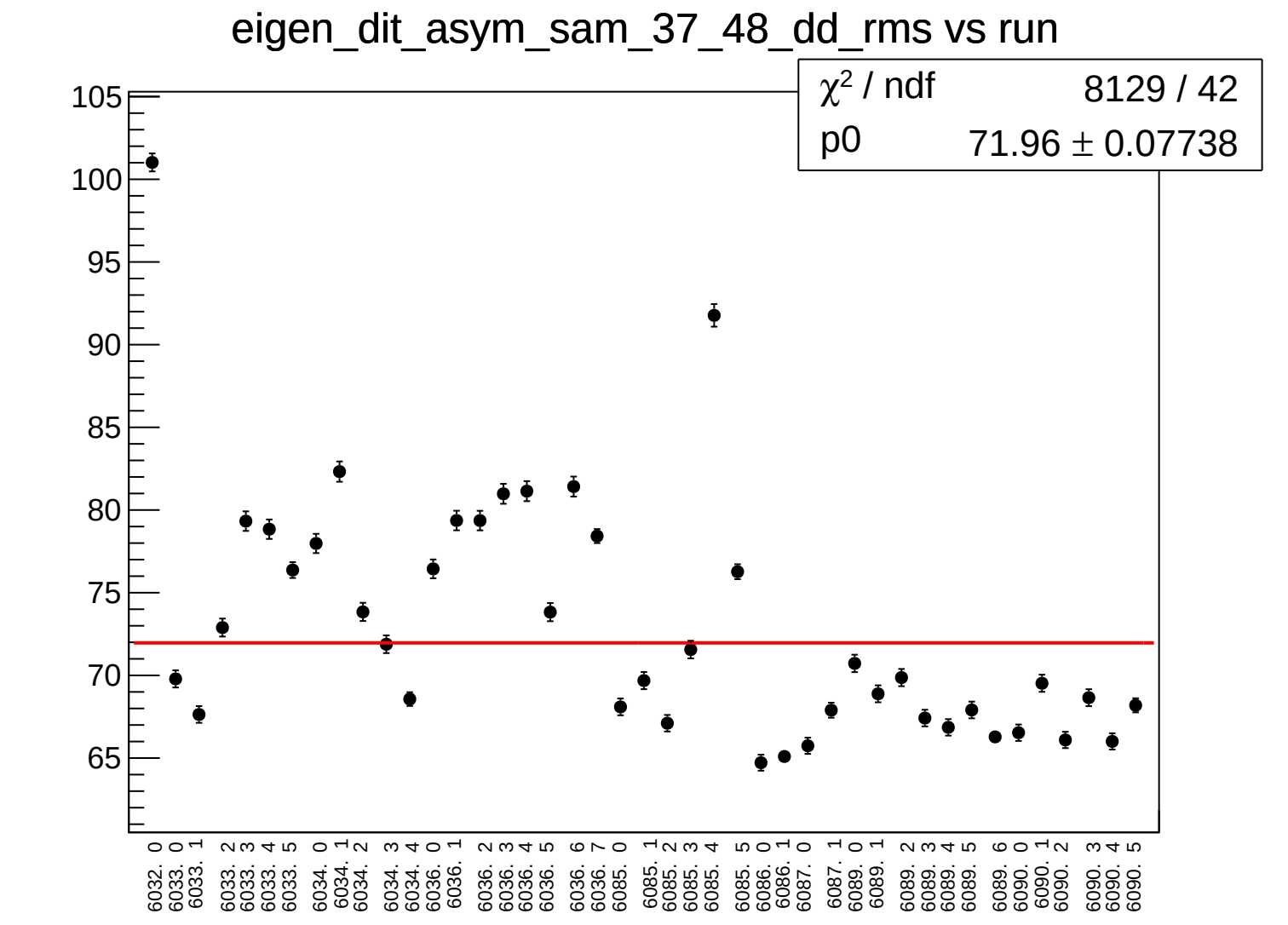

dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 41.91 / 42
p0 17.23 ± 109.4
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 292.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.005787
Std Dev 0.9873
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

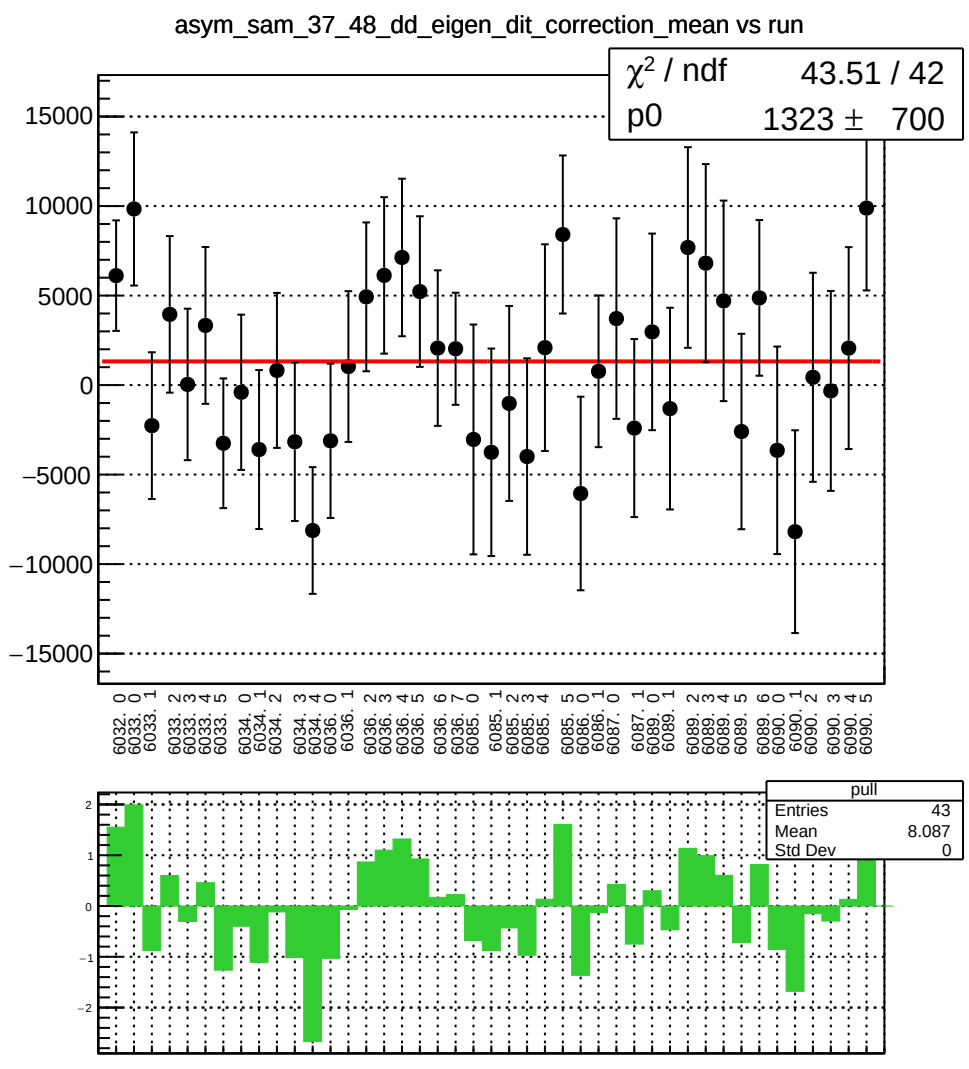

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 8129 / 42
p0 71.96 ± 0.07738
105
100
95
90
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

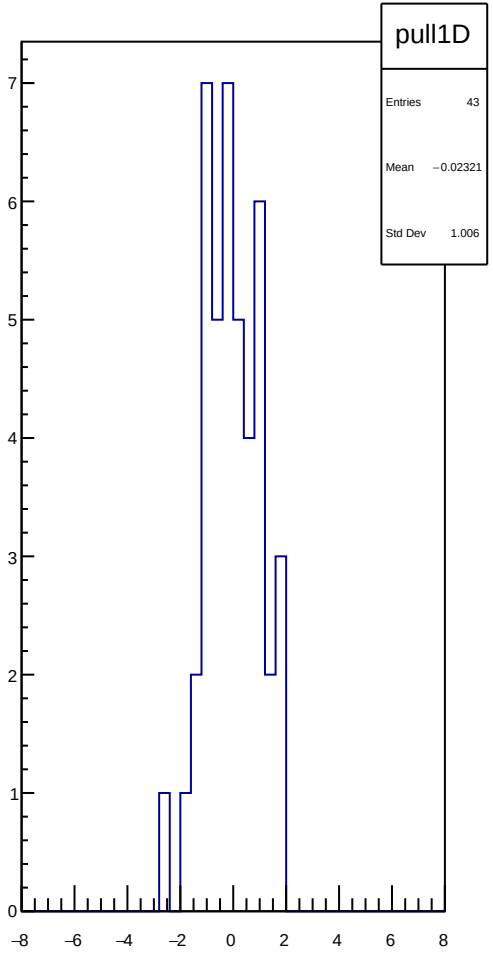

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 43.51 / 42
p0 1323 ± 700
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.087
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02321
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

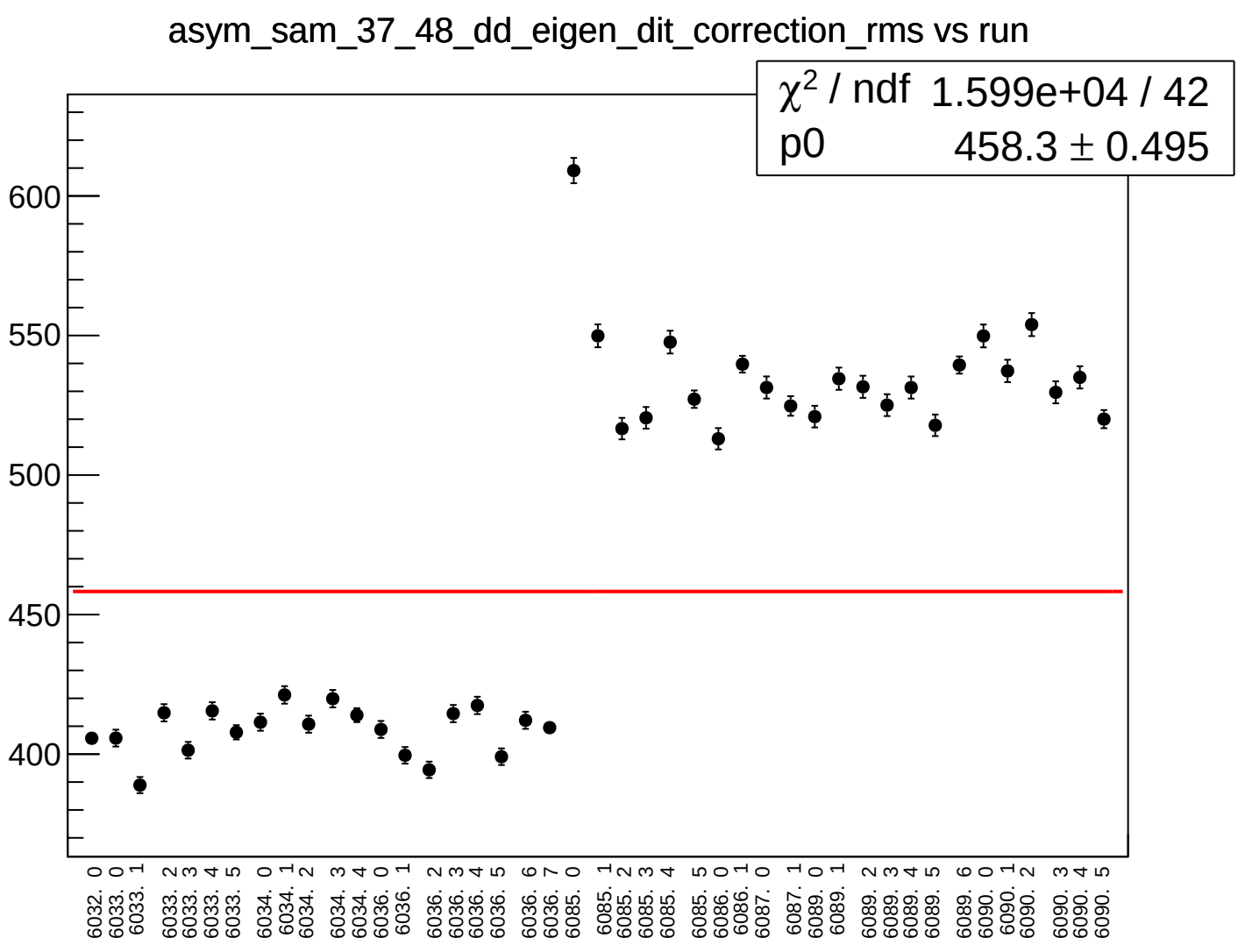

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.599e+04 / 42
p0 458.3 ± 0.495
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

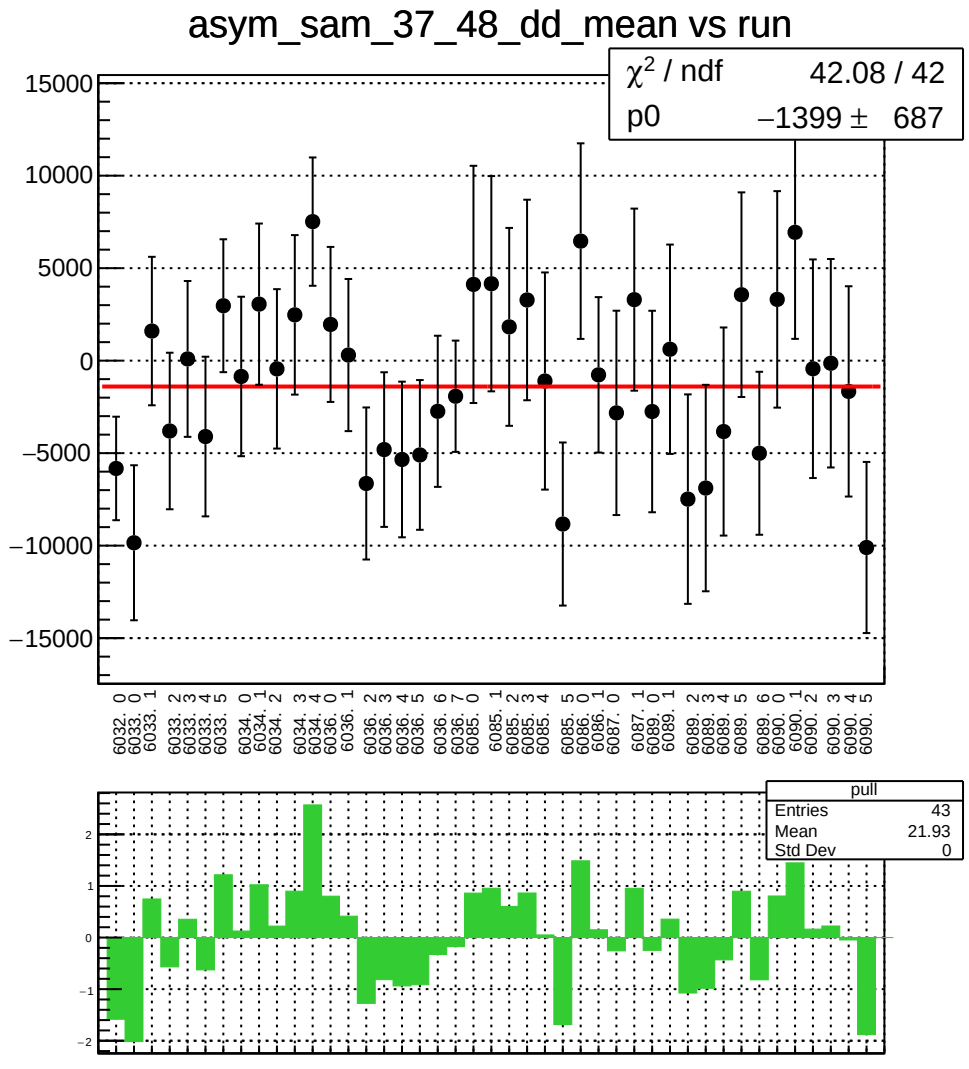

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 41.91 / 42
p0 17.23 ± 109.4
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 292.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.005788
Std Dev 0.9873
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

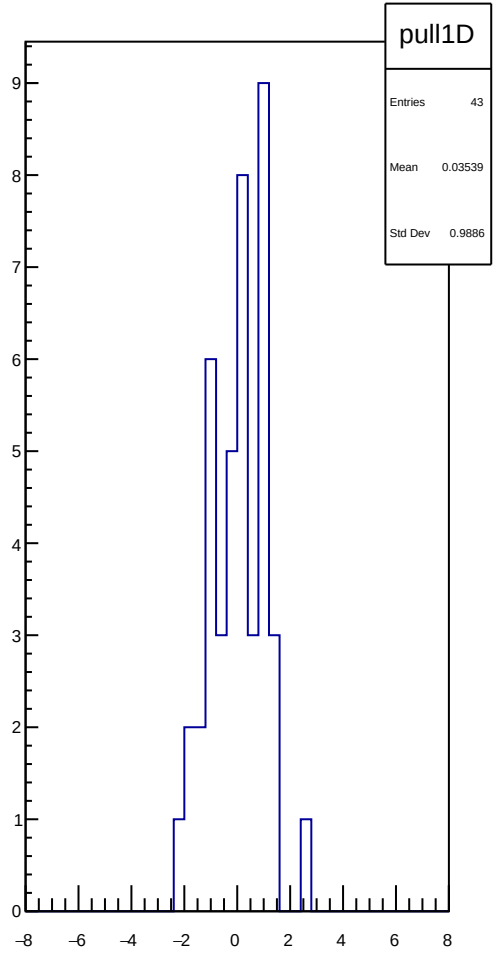

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 8129 / 42
p0 71.96 ± 0.07738
105
100
95
90
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

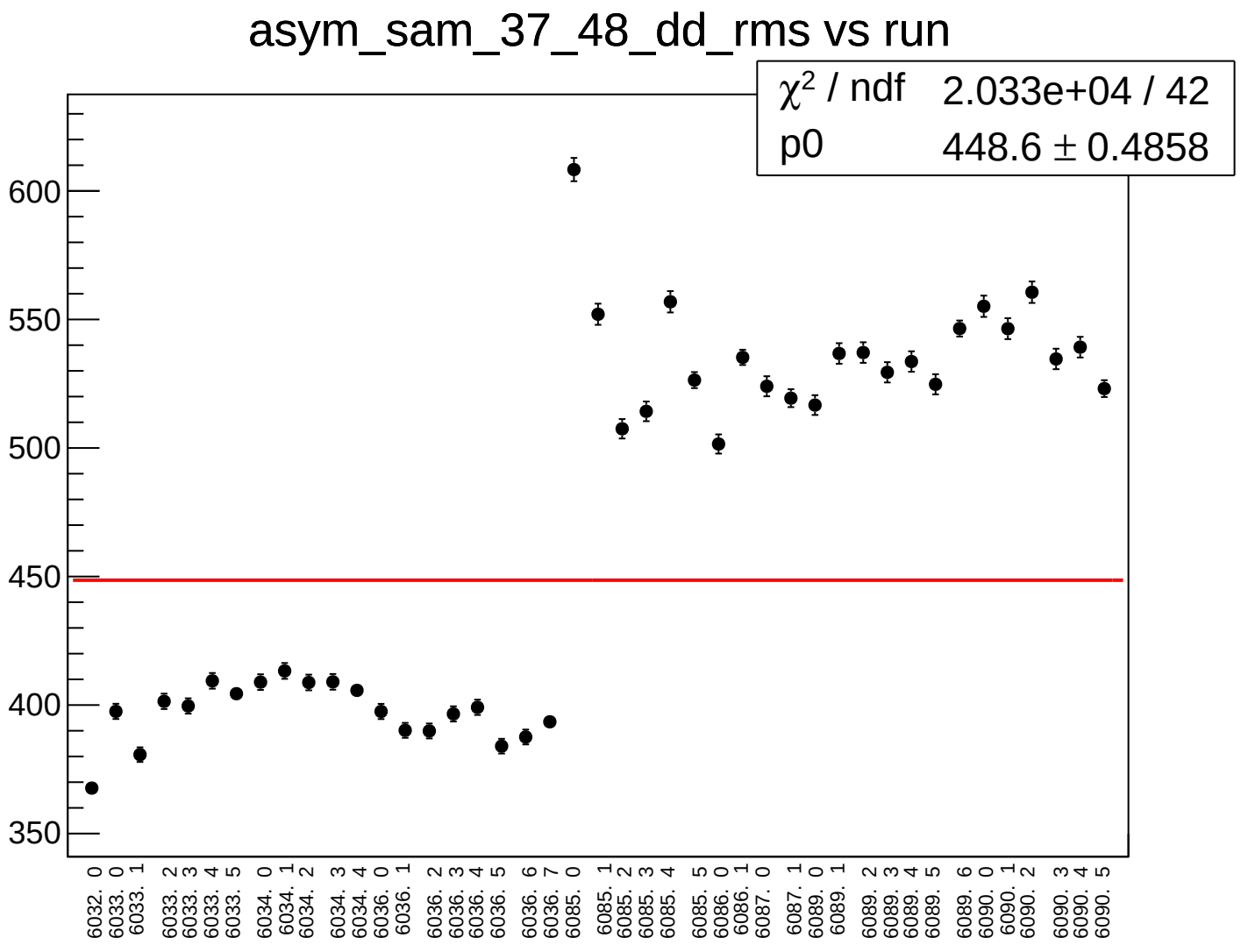

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 43.51 / 42
p0 1323 ± 700
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.087
Std Dev 0
2
1
0
−1
−2

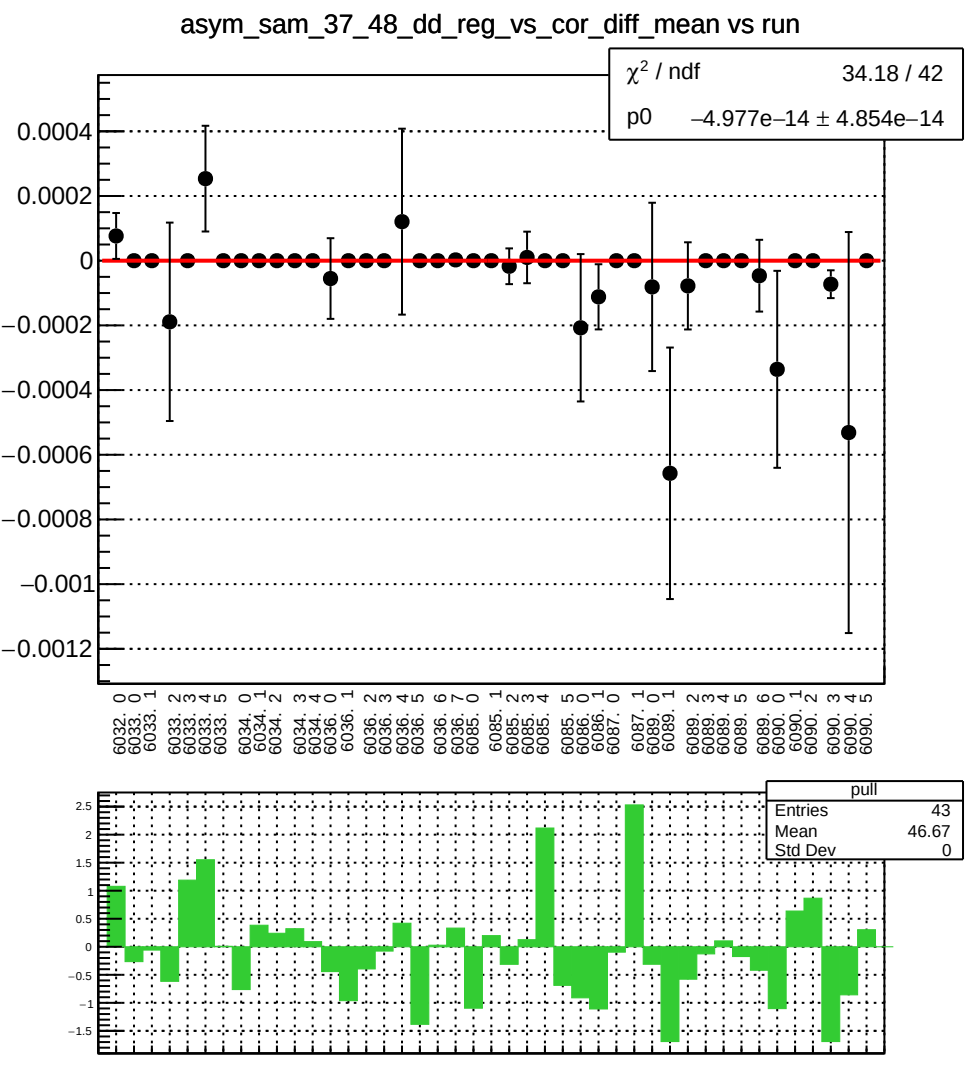

pull1D
Entries 43
Mean −0.02321
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

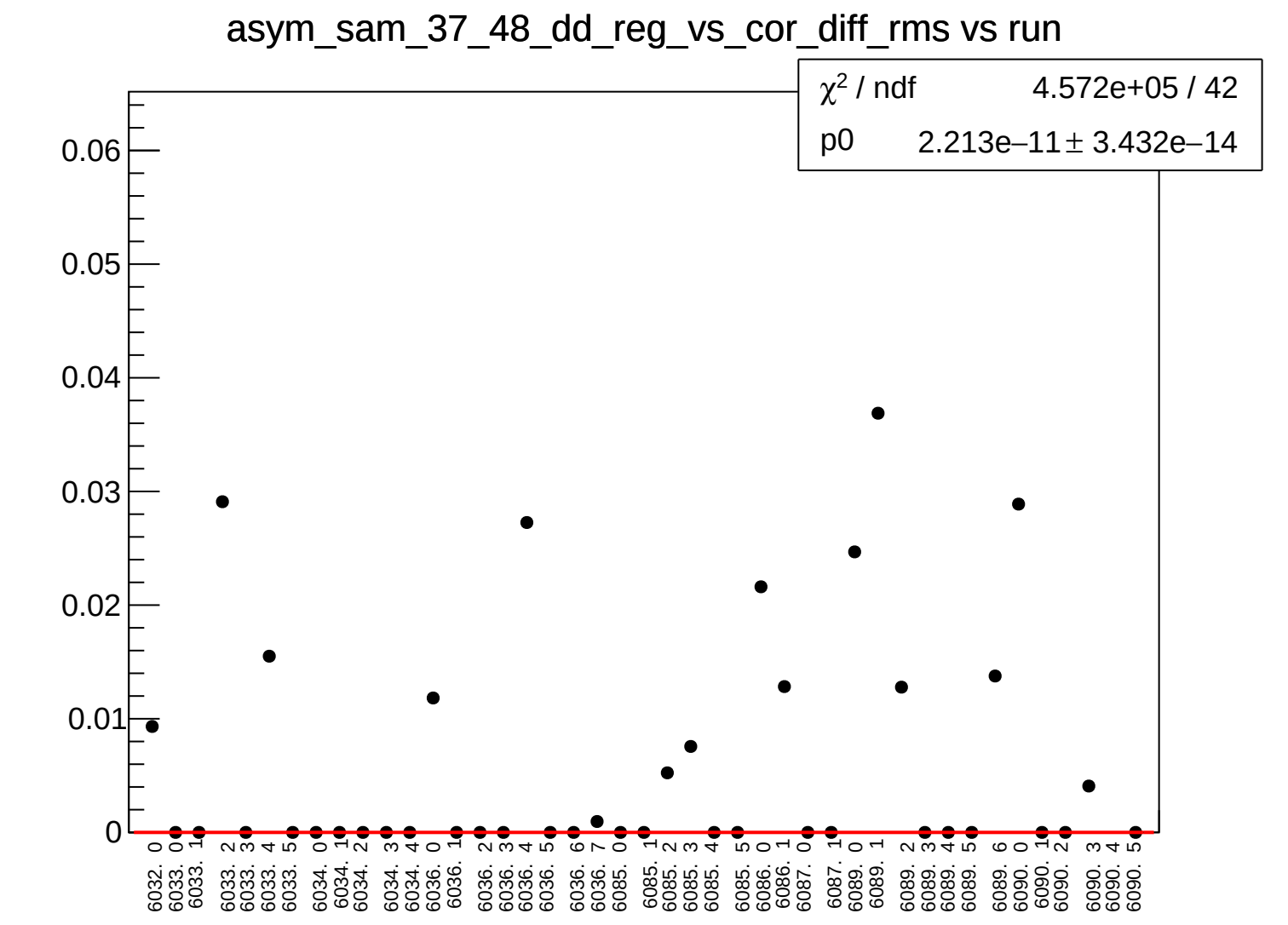

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.599e+04 / 42
p0 458.3 ± 0.495
600
550
500
450
400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

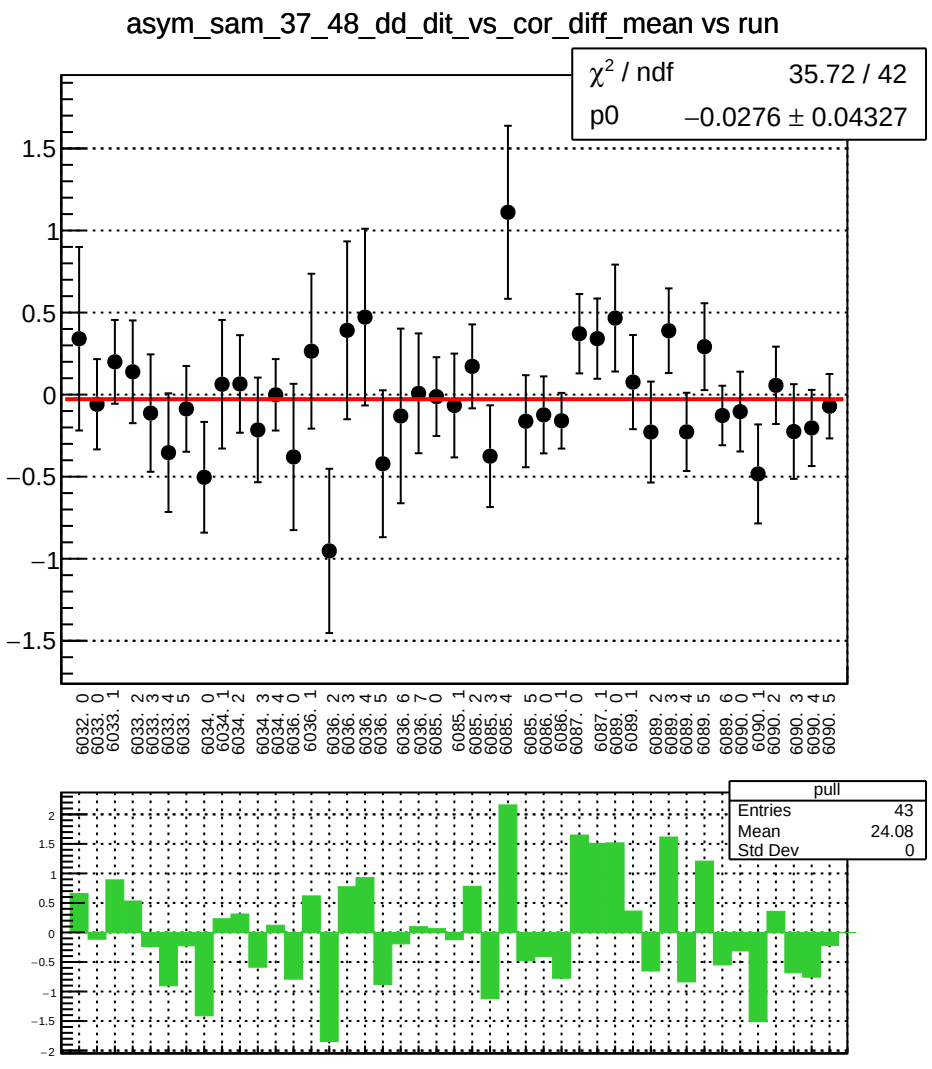

asym_sam_37_48_dd_mean vs run
χ² / ndf 42.08 / 42
p0 −1399 ± 687
15000
10000
5000
0
−5000
−10000
−15000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.93
Std Dev 0
2
1
0
−1
−2

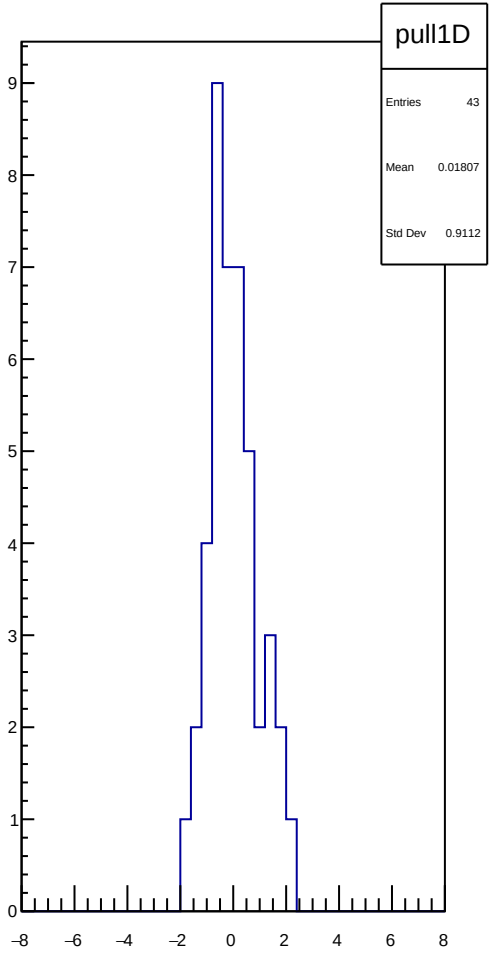

pull1D
Entries 43
Mean 0.03539
Std Dev 0.9886
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

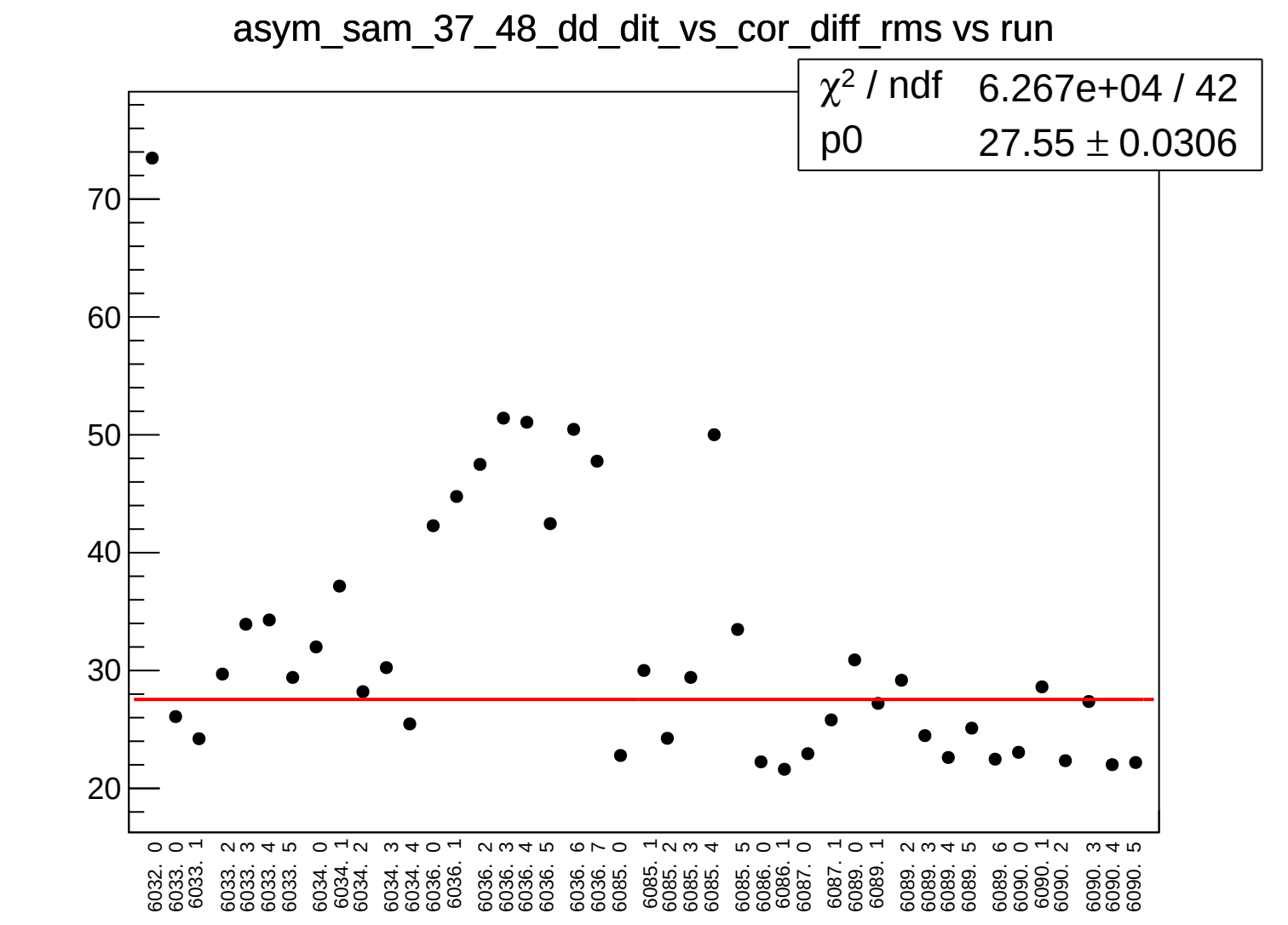

asym_sam_37_48_dd_rms vs run
χ² / ndf 2.033e+04 / 42
p0 448.6 ± 0.4858
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

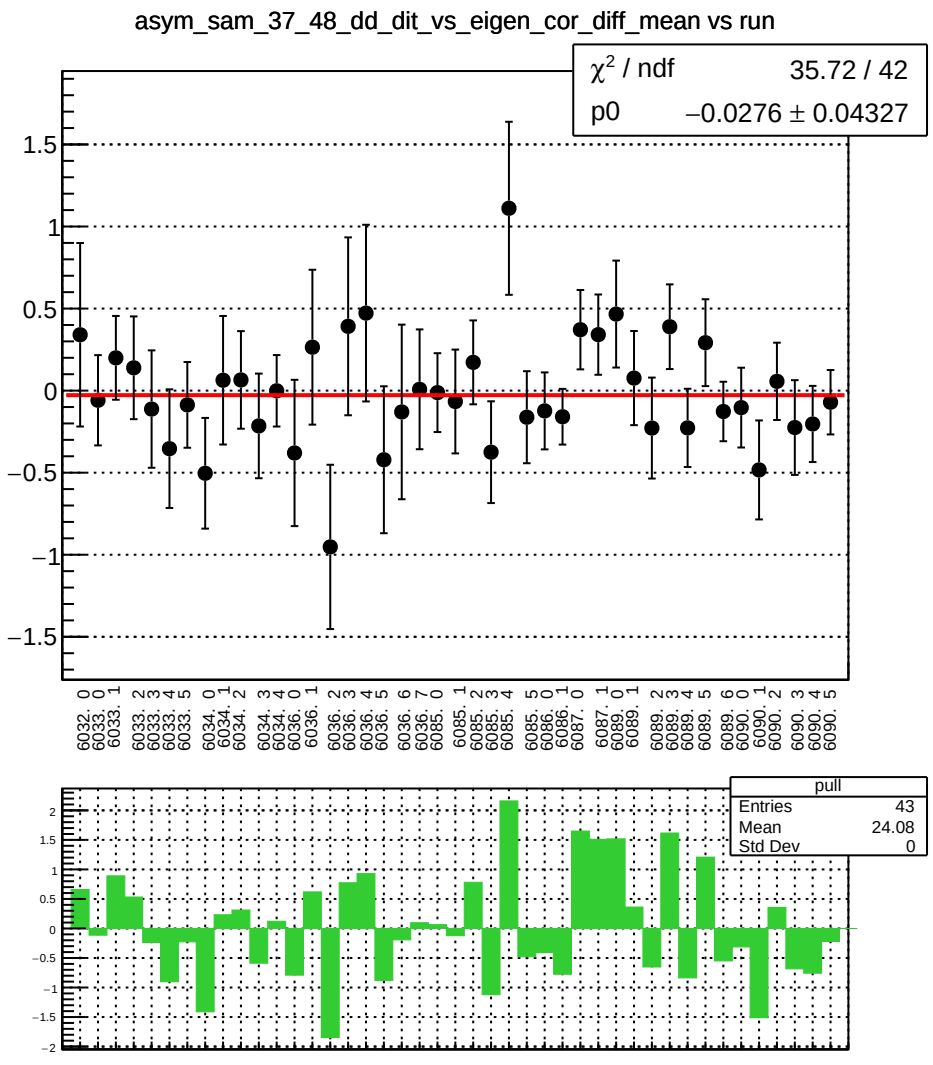

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.18 / 42
p0 −4.977e−14 ± 4.854e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 46.67
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.08353
Std Dev 0.8877
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

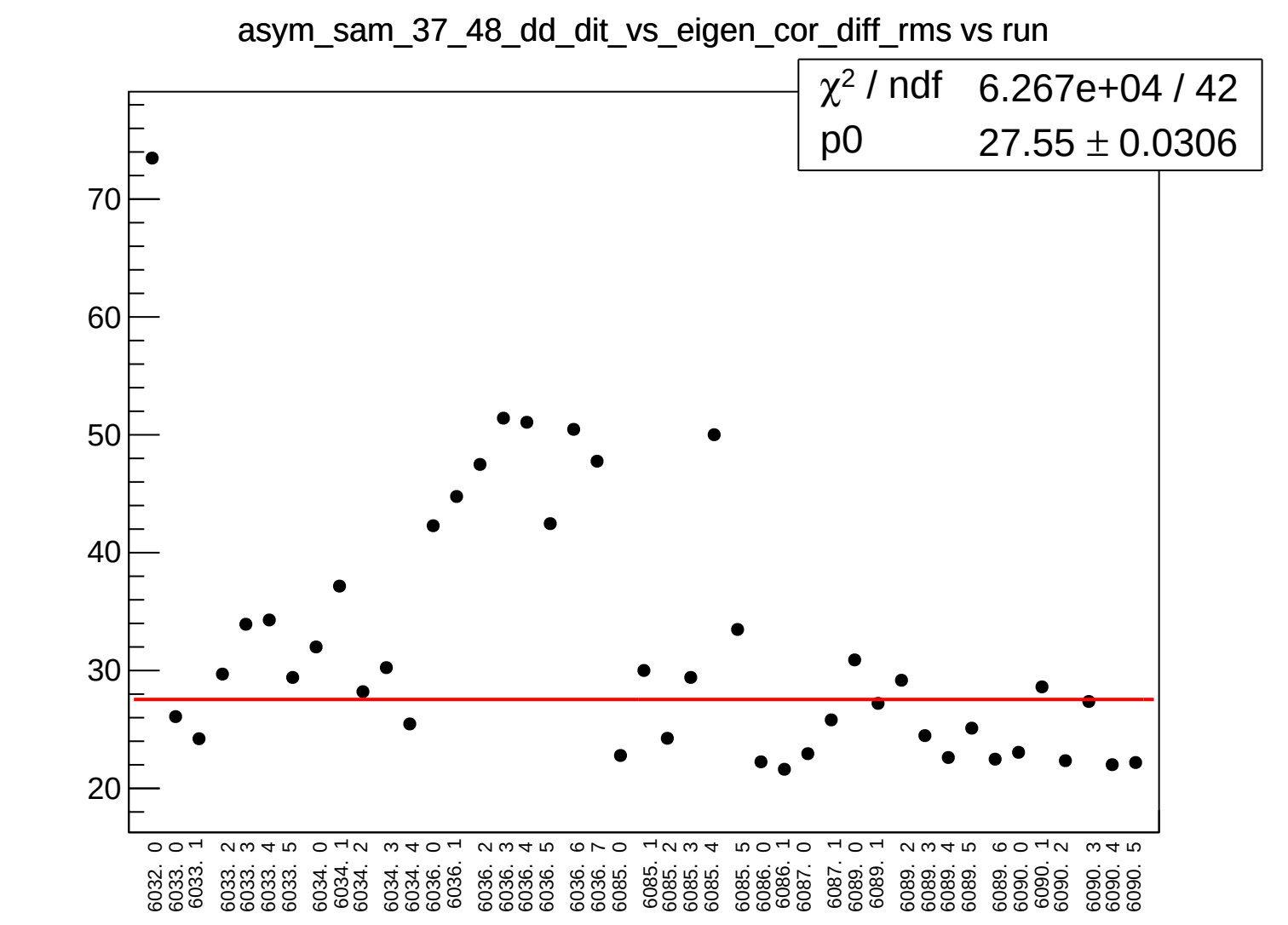

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.572e+05 / 42
p0 2.213e−11 ± 3.432e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

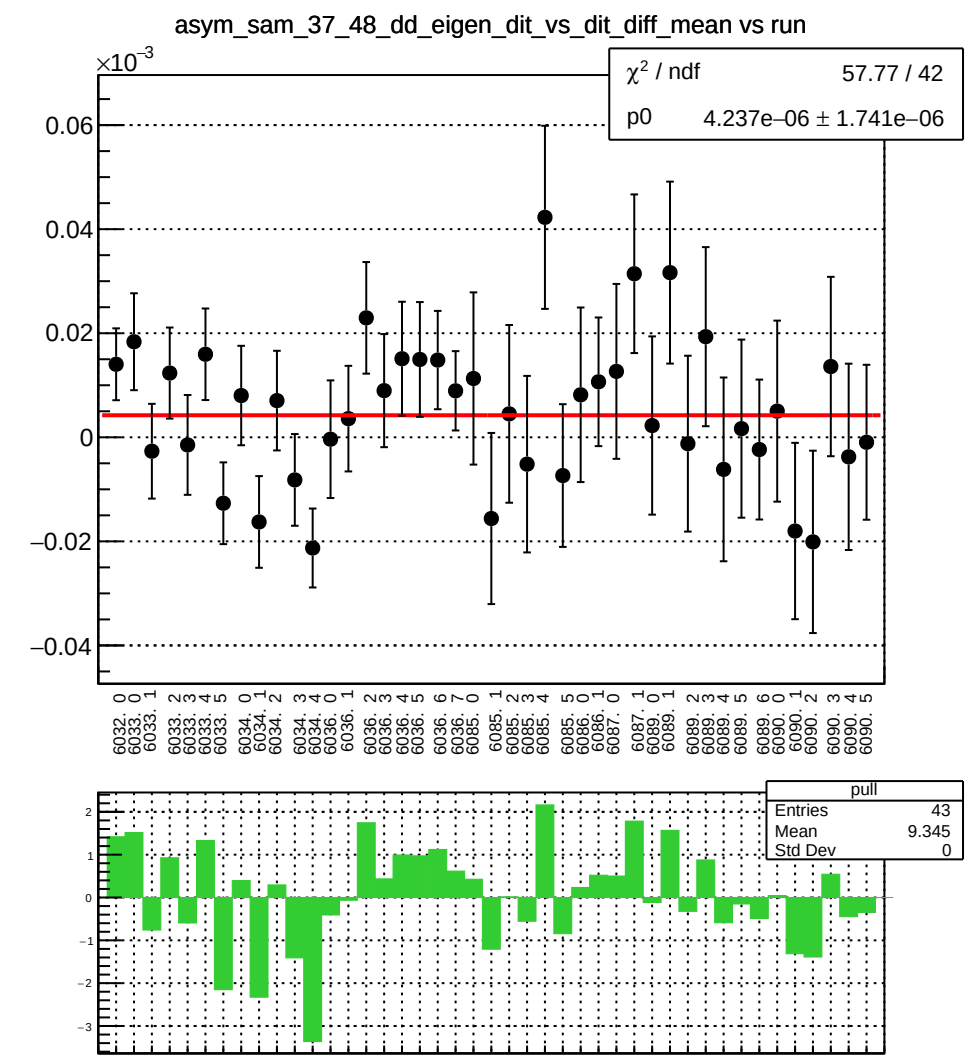

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.72 / 42
p0 −0.0276 ± 0.04327
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

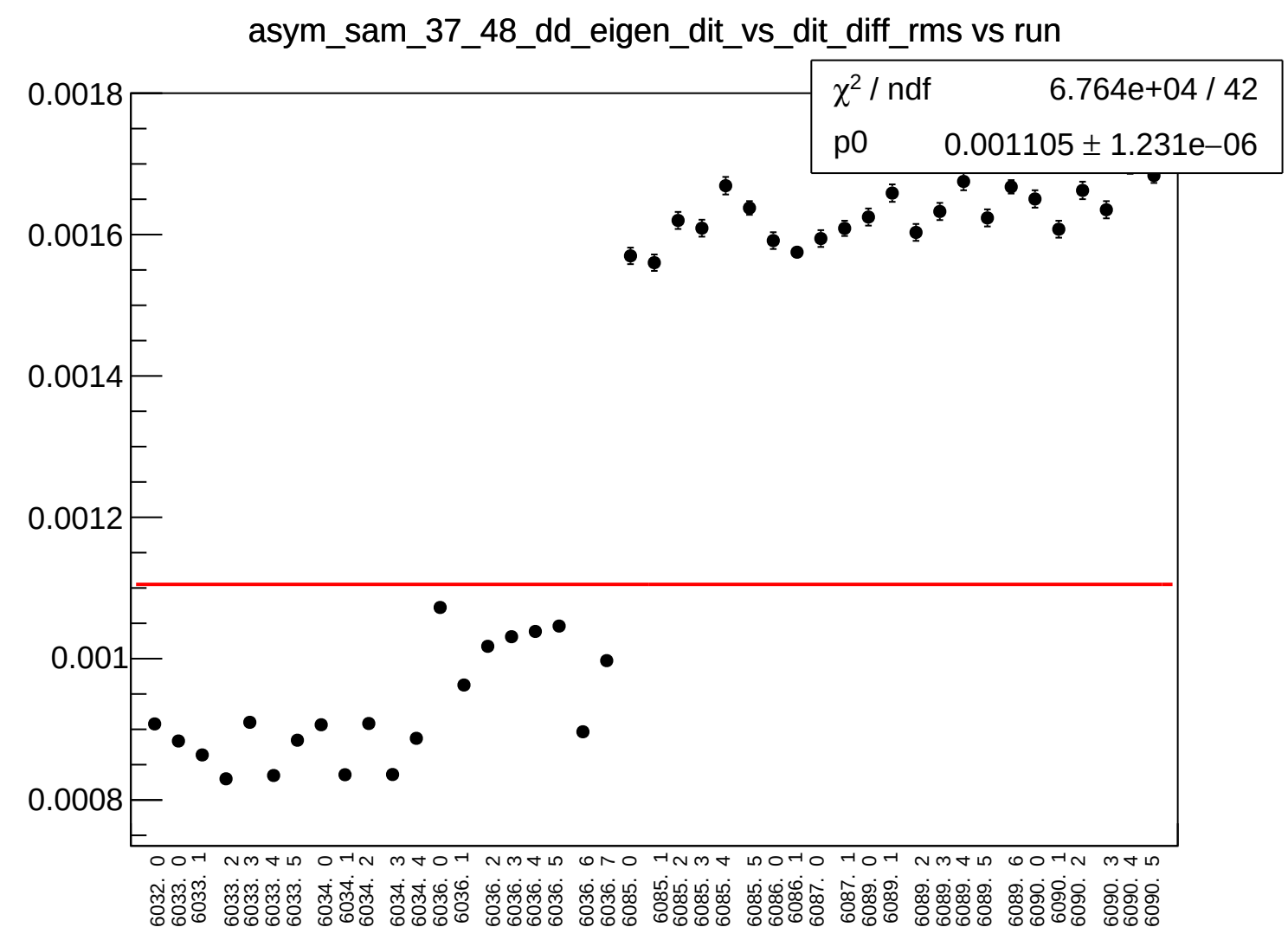

pull1D
Entries 43
Mean 0.01807
Std Dev 0.9112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

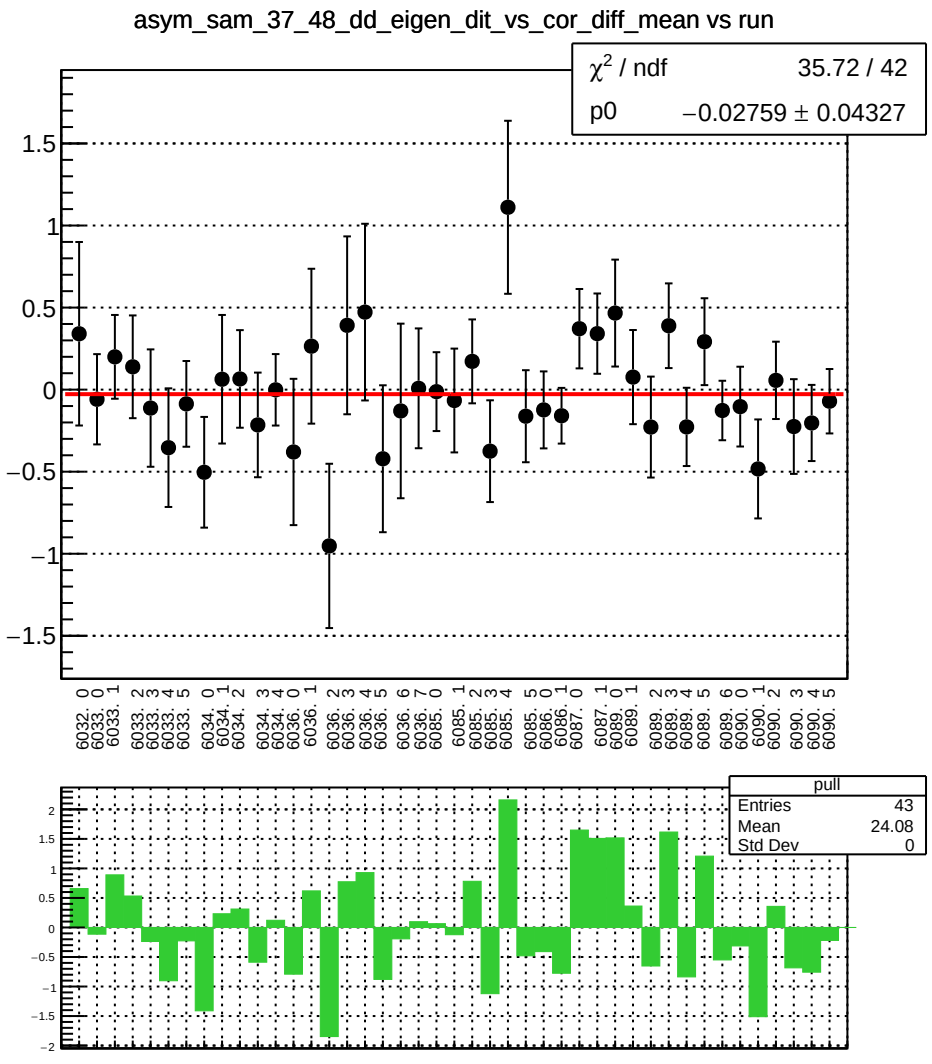

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 42
p0 27.55 ± 0.0306
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

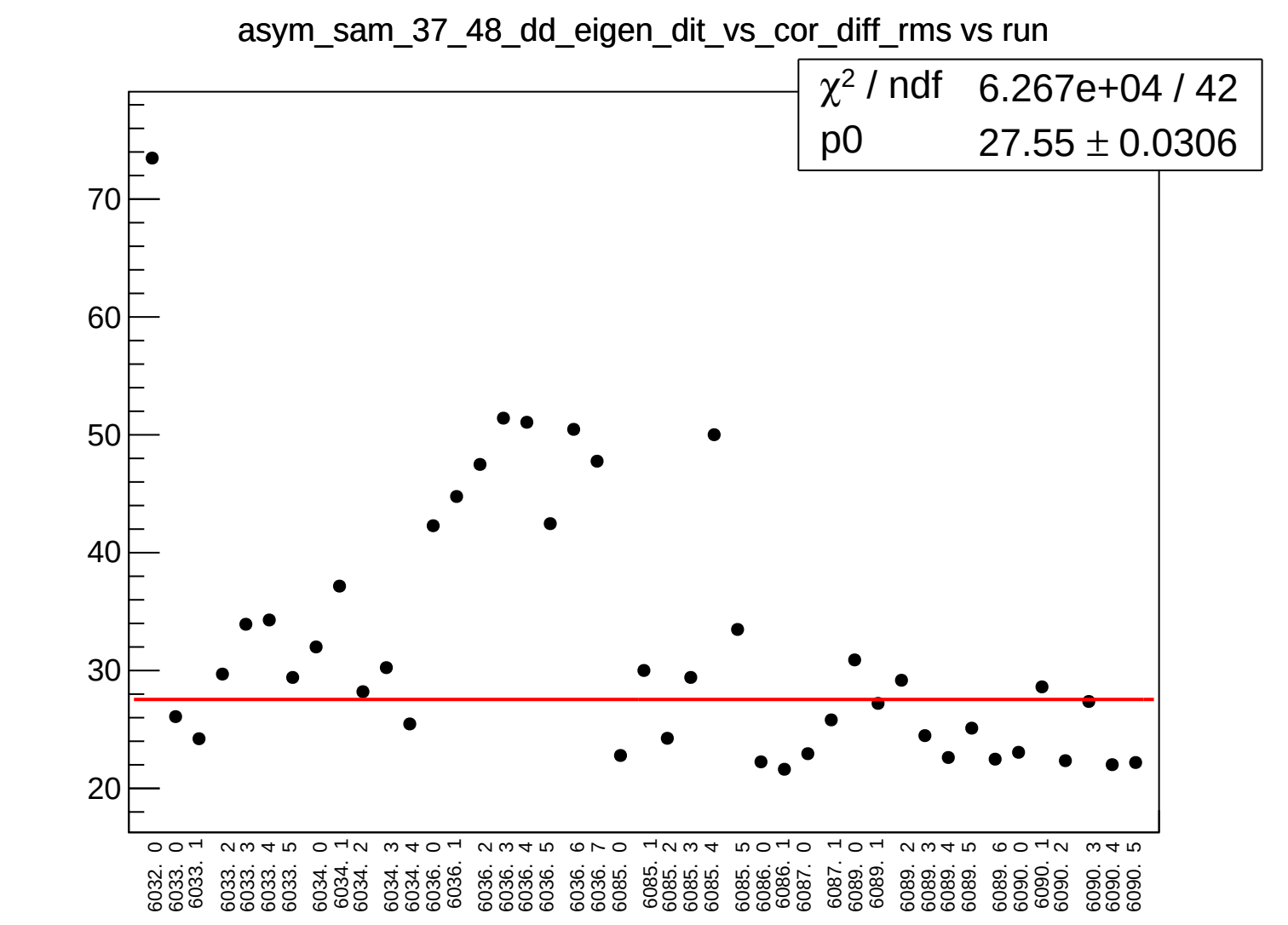

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.72 / 42
p0 −0.0276 ± 0.04327
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01807
Std Dev 0.9112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 42
p0 27.55 ± 0.0306
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

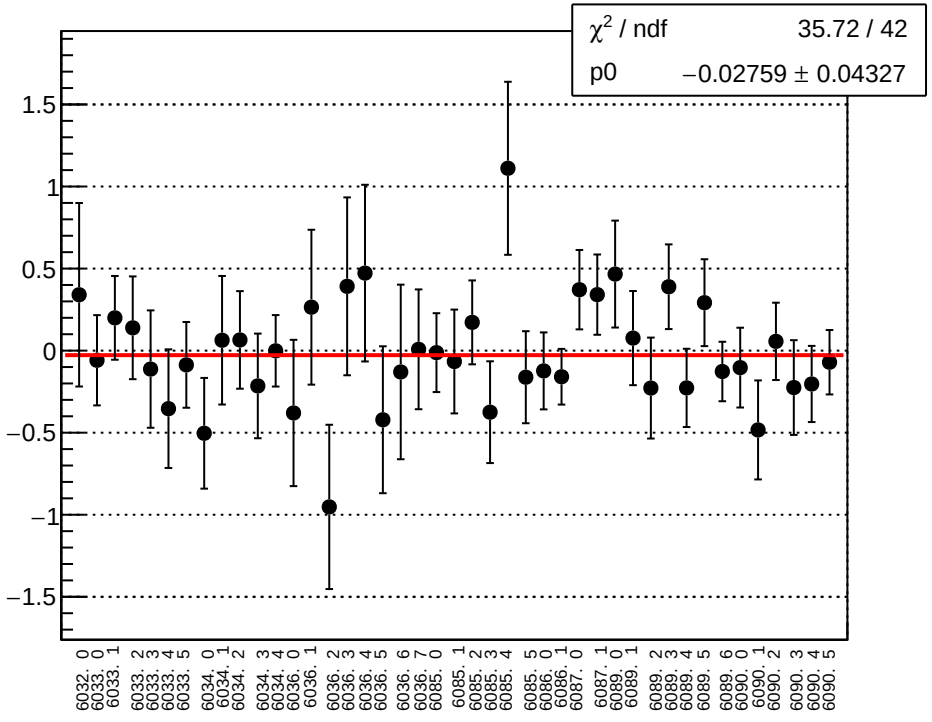

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.77 / 42
p0 4.237e−06 ± 1.741e−06
0.06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.345
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0372
Std Dev 1.158
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

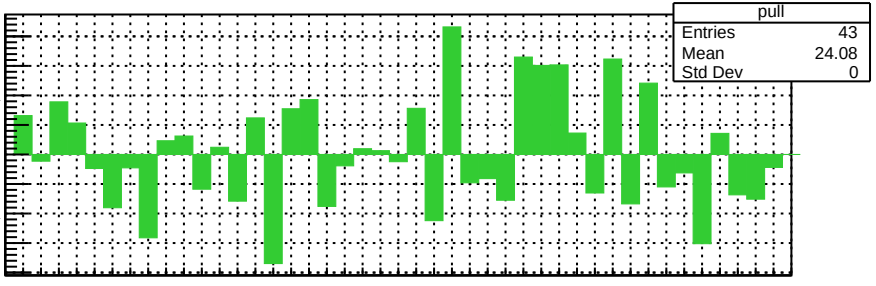

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.764e+04 / 42
p0 0.001105 ± 1.231e−06
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

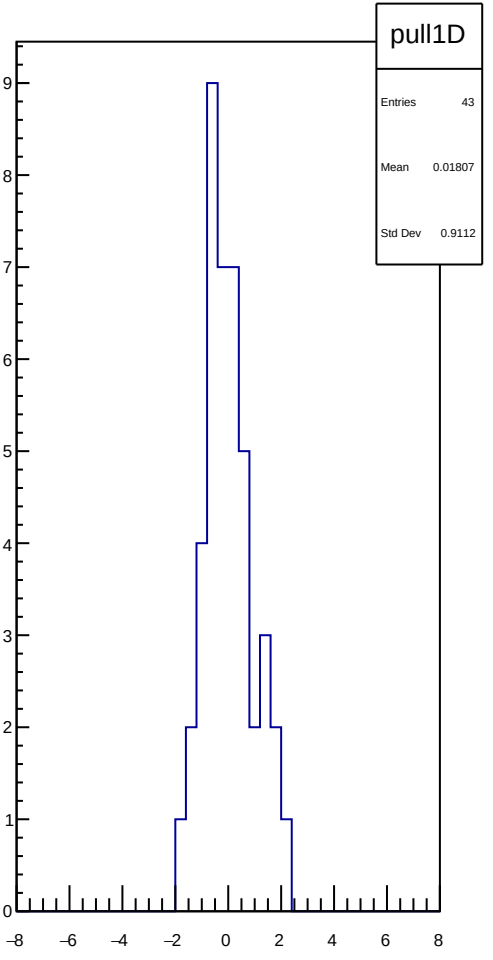

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.72 / 42
p0 −0.02759 ± 0.04327
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01807
Std Dev 0.9112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

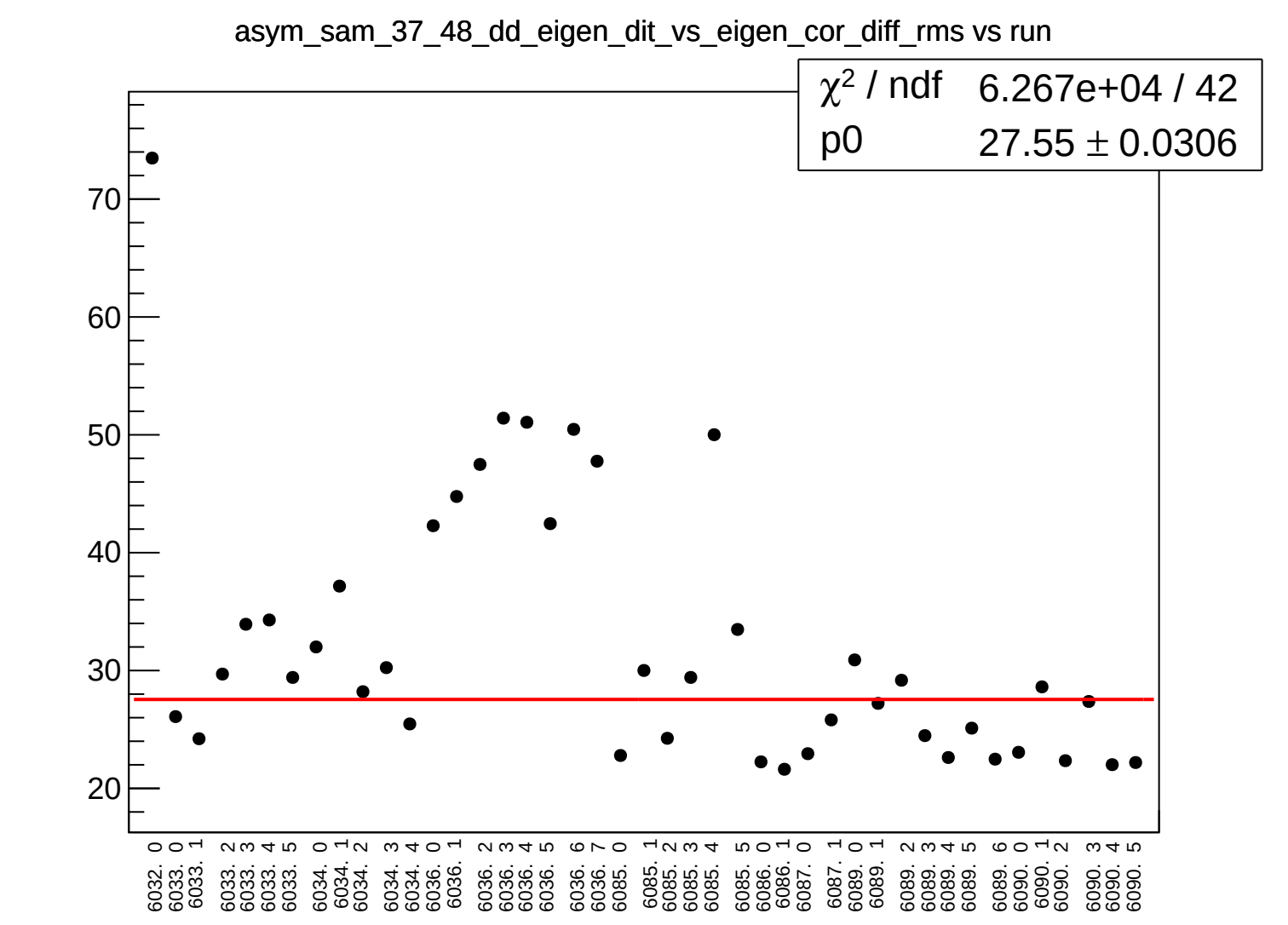

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 42
p0 27.55 ± 0.0306
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

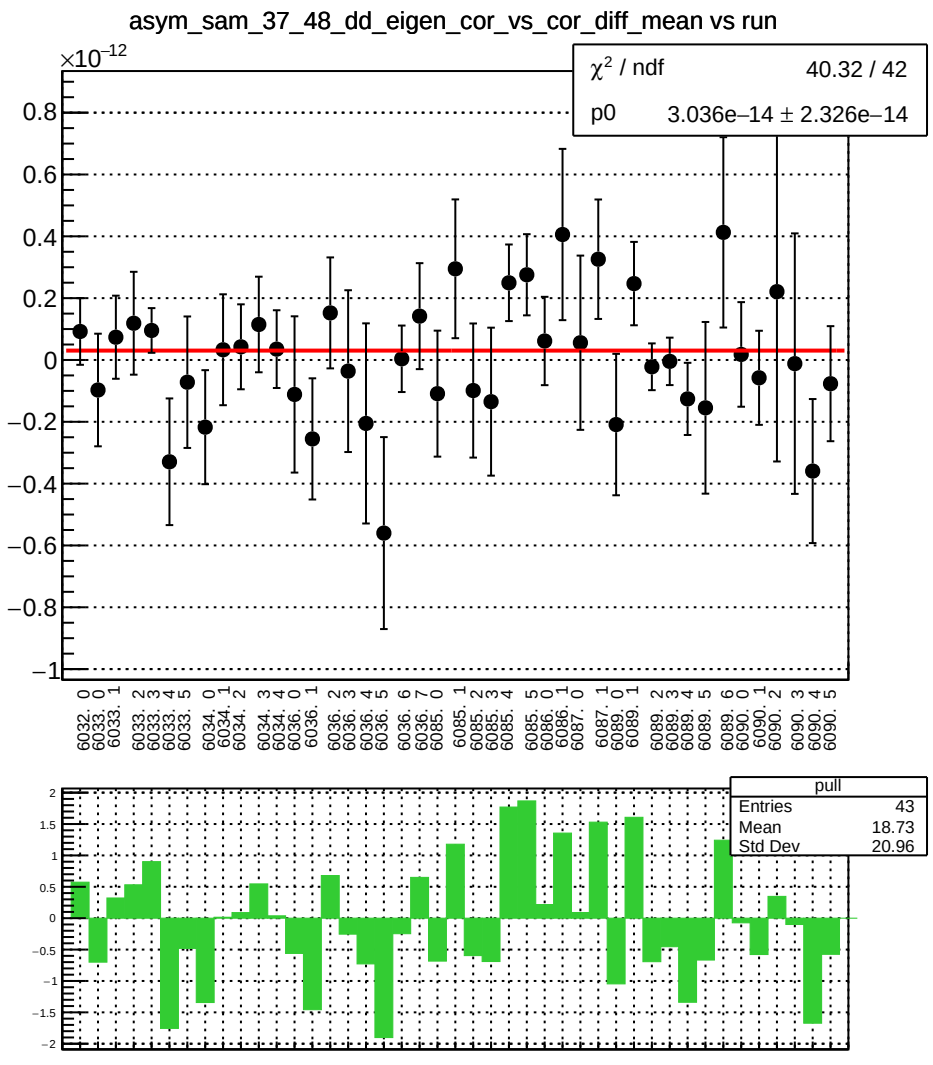
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

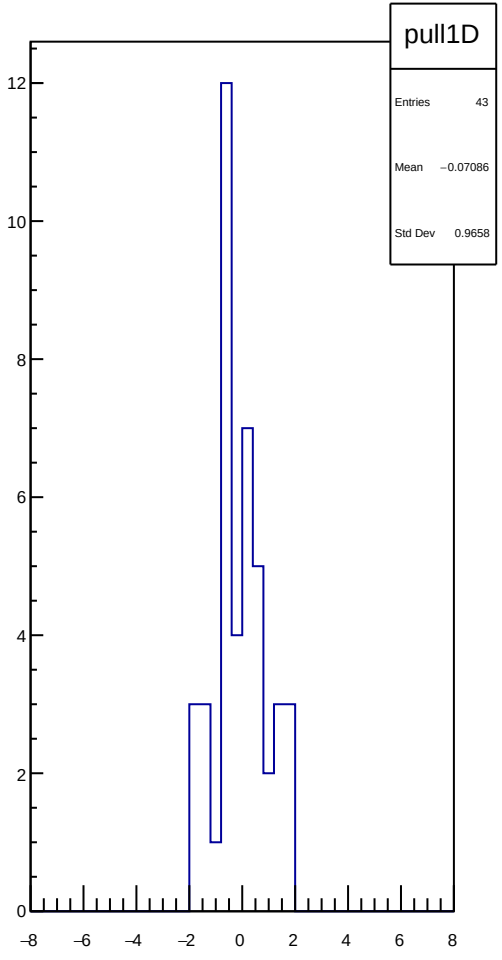


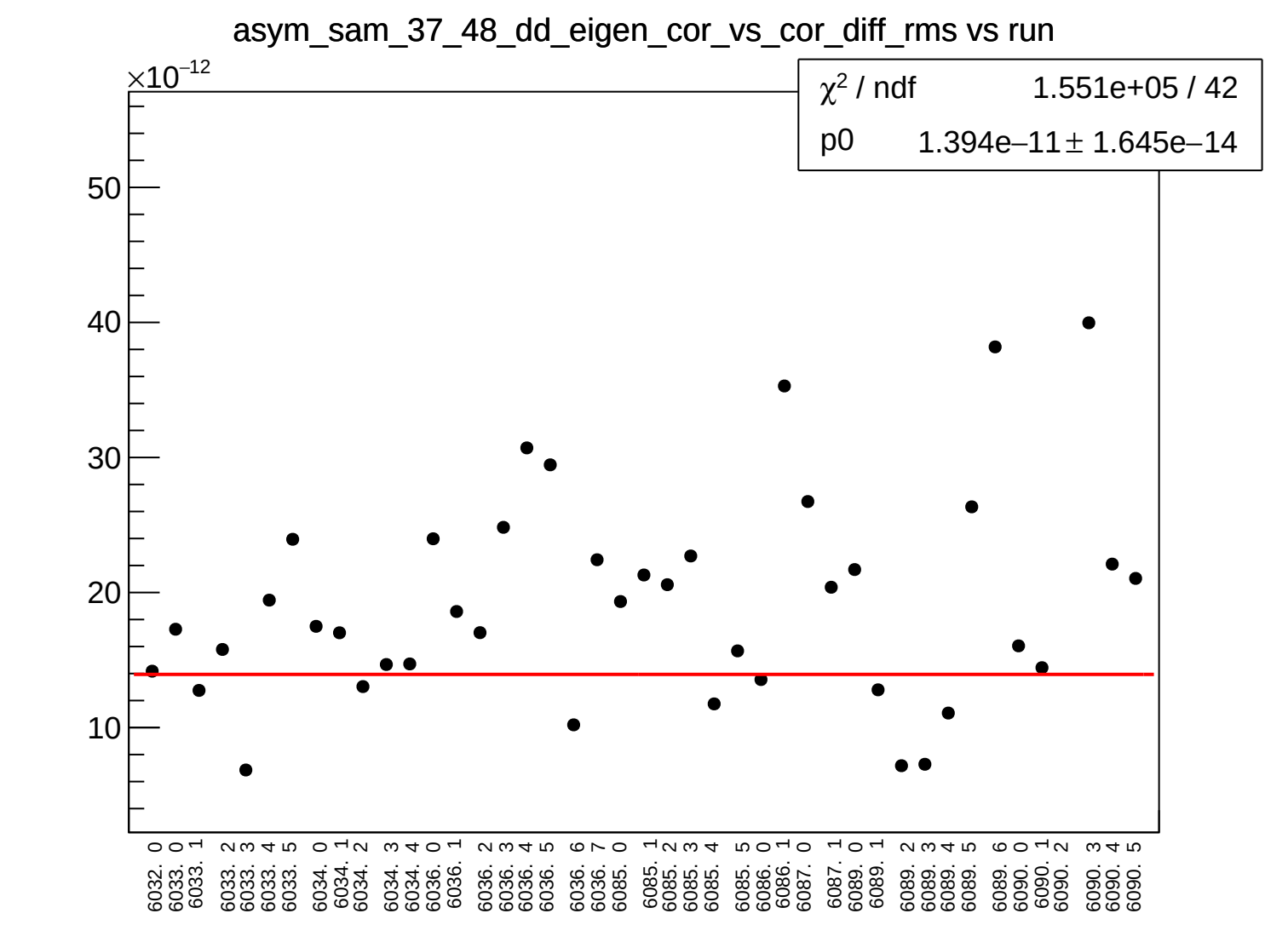


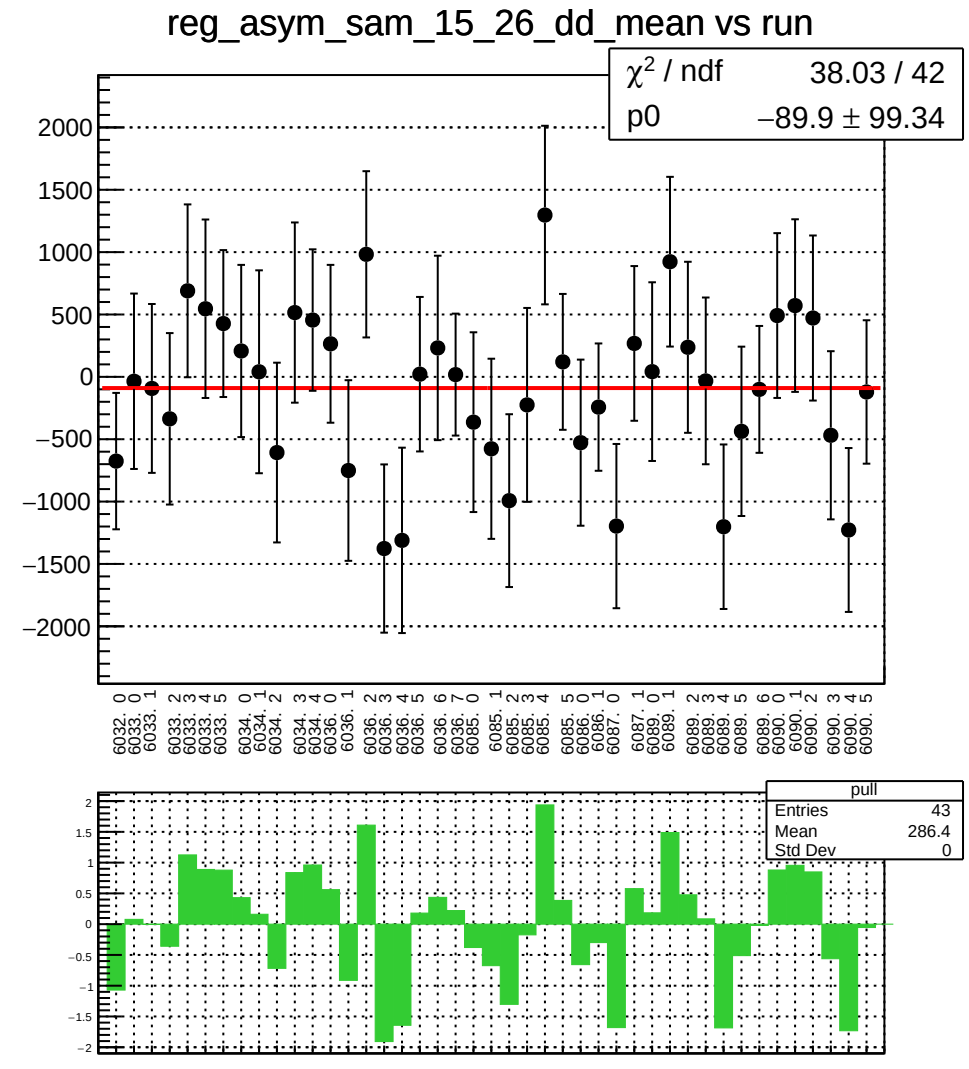


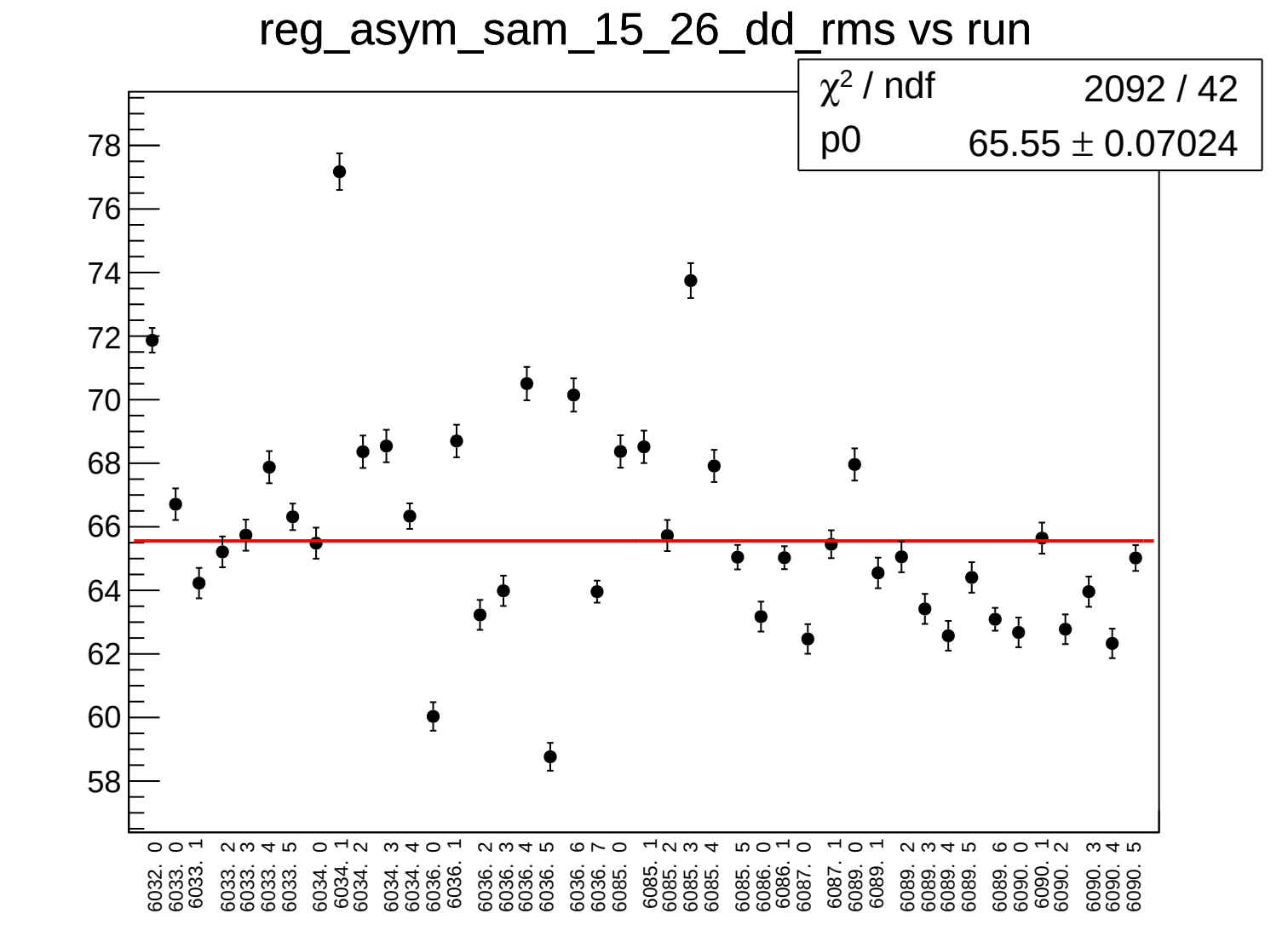

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.267e+04 / 42
p0 27.55 ± 0.0306
70
60
50
40
30
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

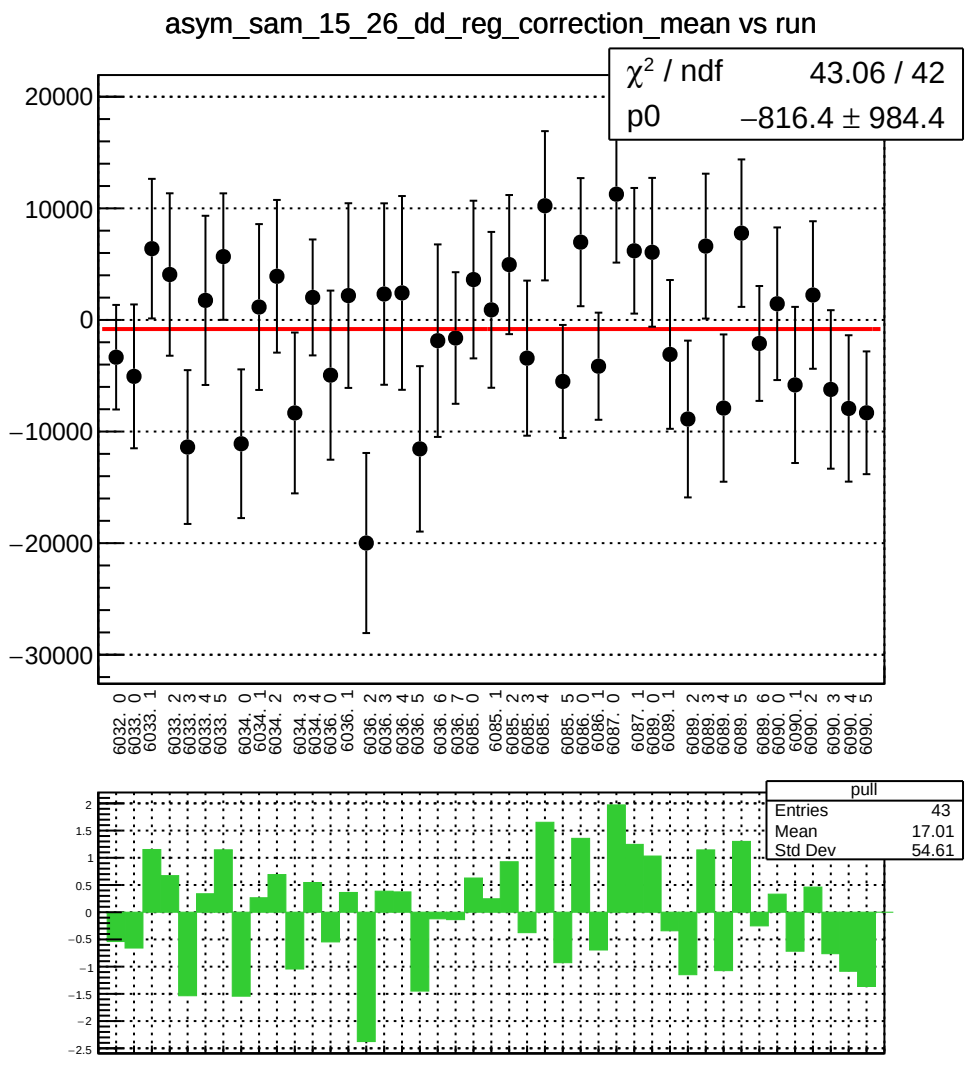

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 40.32 / 42
p0 3.036e−14 ± 2.326e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.73
Std Dev 20.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

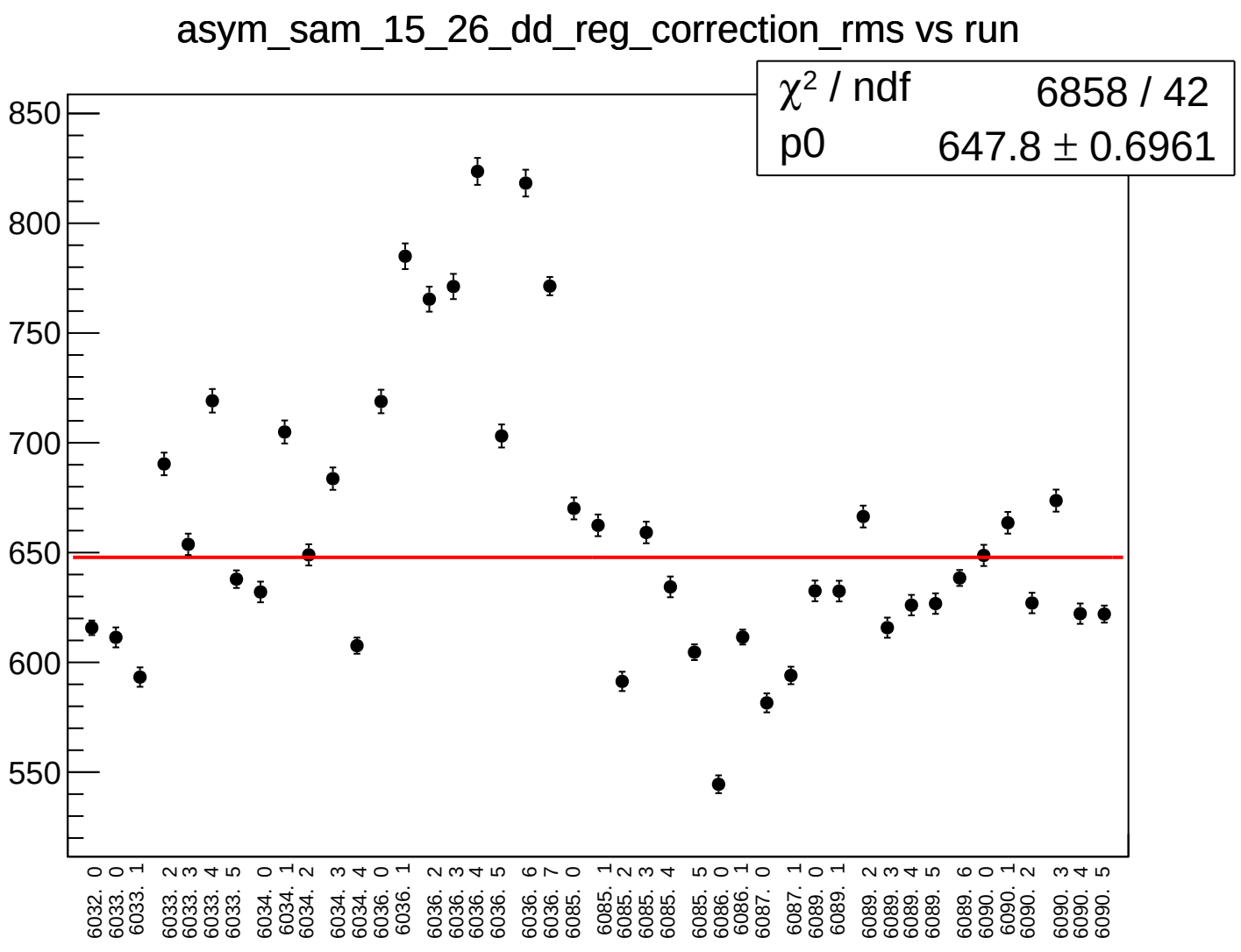

pull1D
Entries 43
Mean −0.07086
Std Dev 0.9658
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

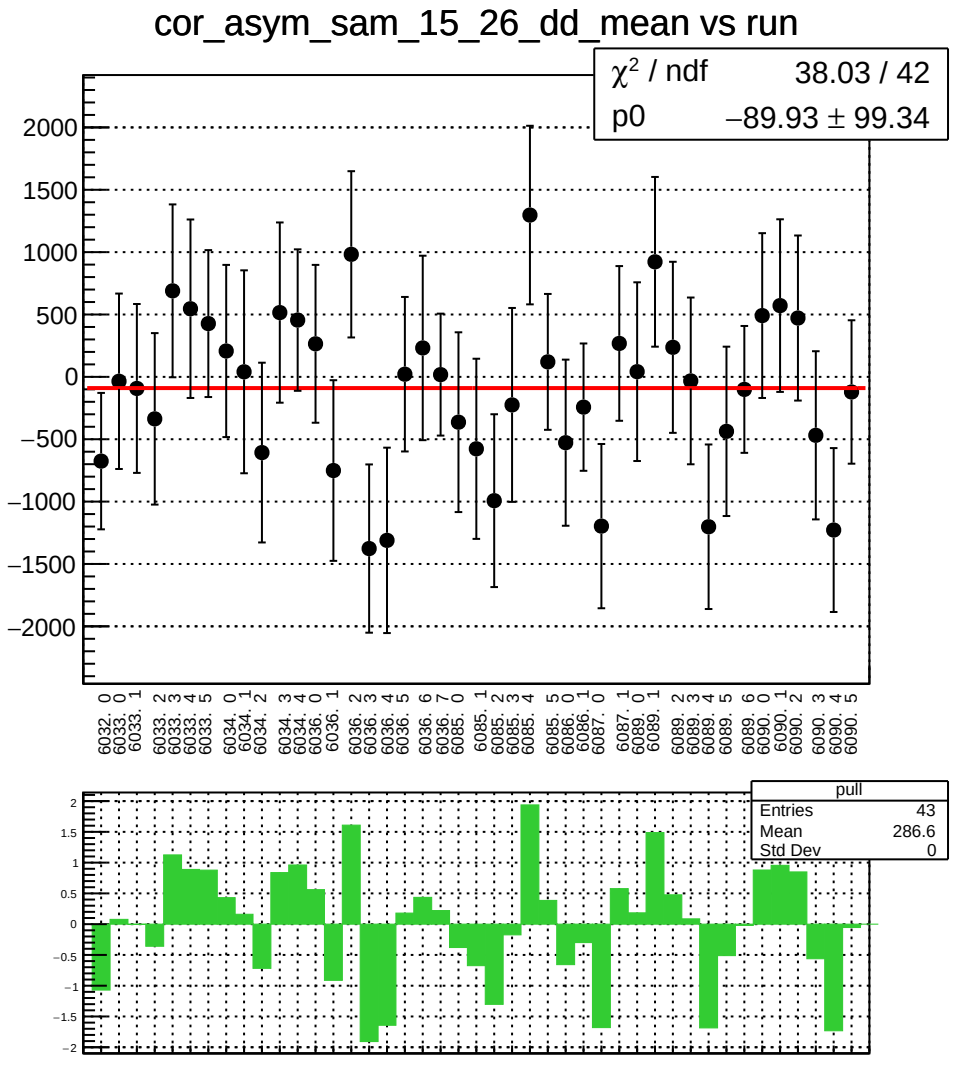

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.551e+05 / 42
p0 1.394e−11 ± 1.645e−14
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

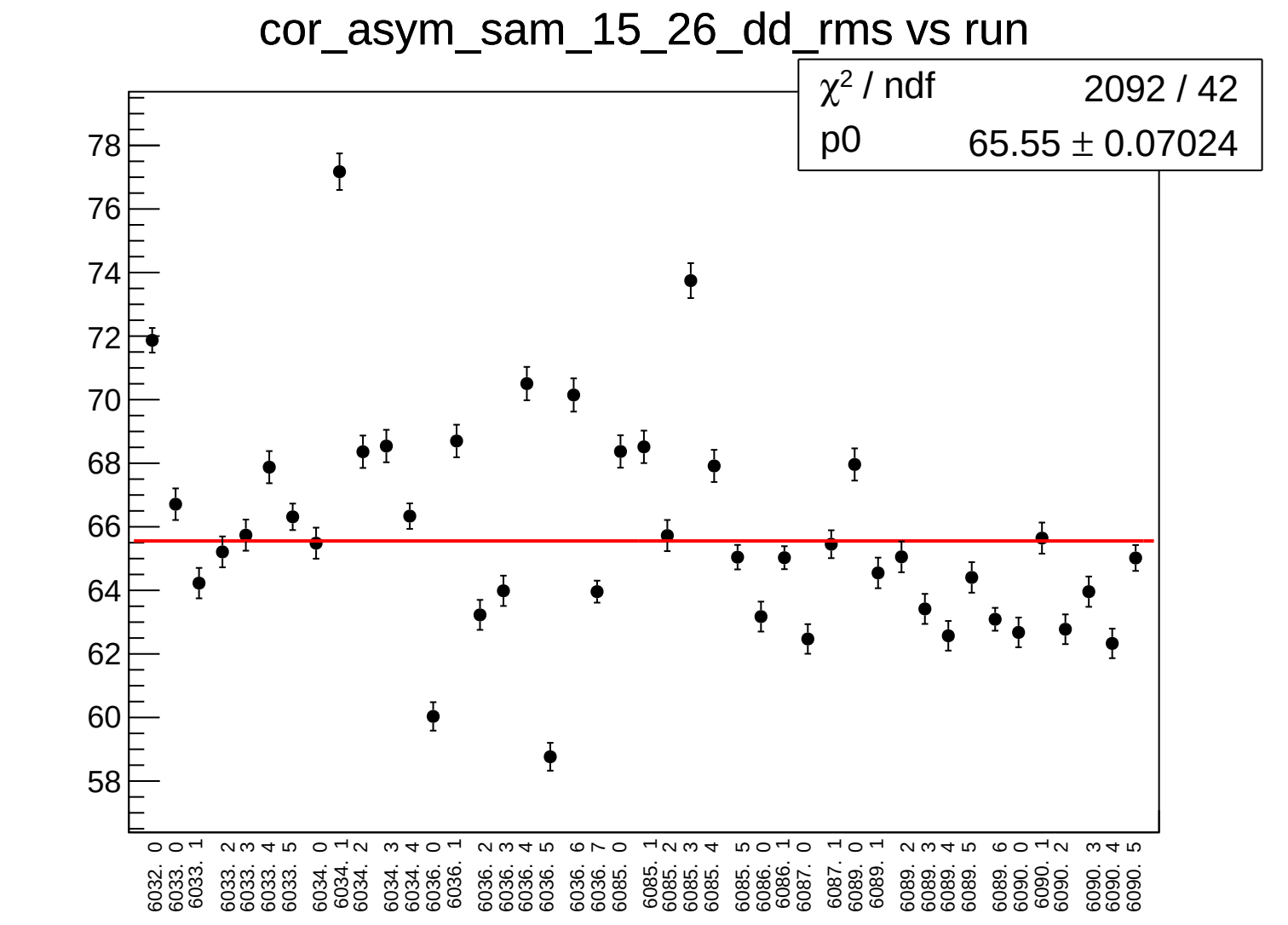

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 38.03 / 42
p0 −89.9 ± 99.34
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 286.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003752
Std Dev 0.9404
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 2092 / 42
p0 65.55 ± 0.07024
78
76
74
72
70
68
66
64
62
60
58
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 43.06 / 42
p0 −816.4 ± 984.4
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.01
Std Dev 54.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01037
Std Dev 1.001
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 6858 / 42
p0 647.8 ± 0.6961
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 38.03 / 42
p0 −89.93 ± 99.34
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 286.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003751
Std Dev 0.9404
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 2092 / 42
p0 65.55 ± 0.07024
78
76
74
72
70
68
66
64
62
60
58
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
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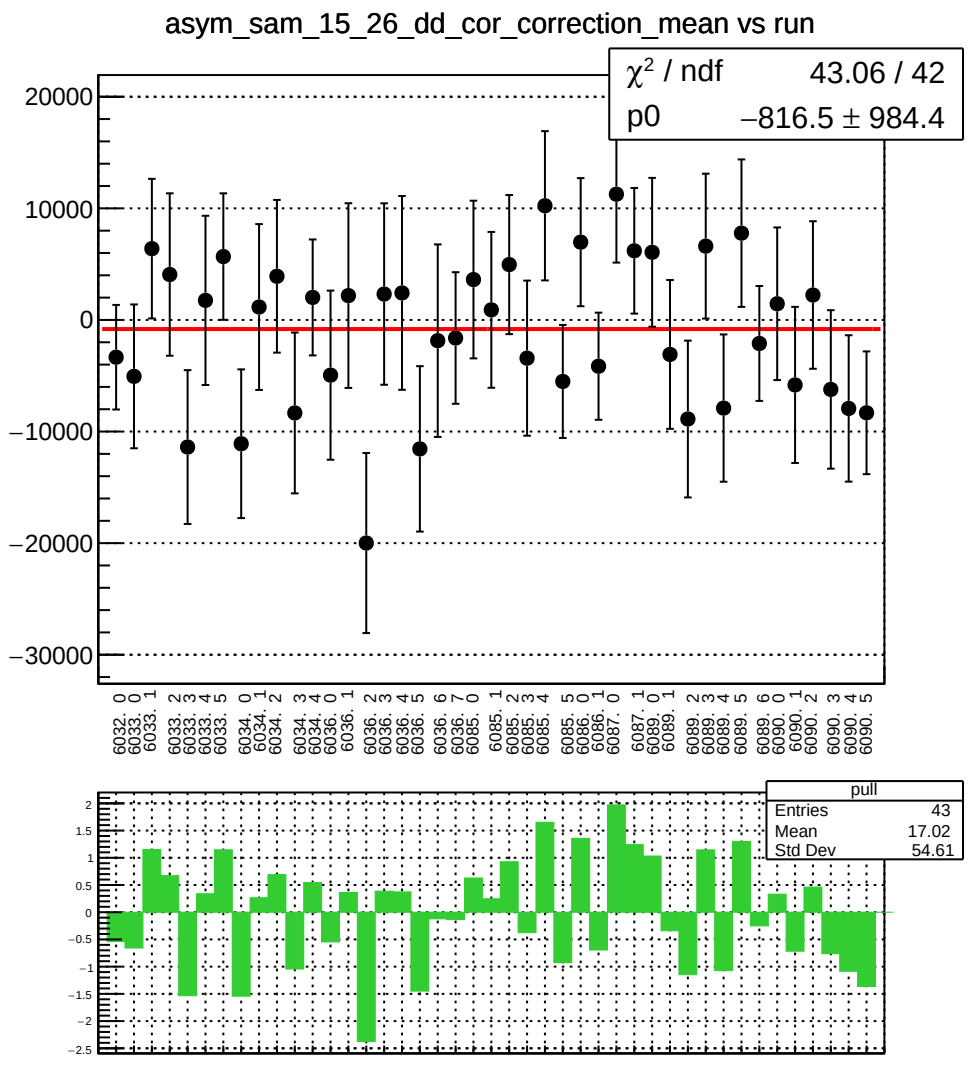
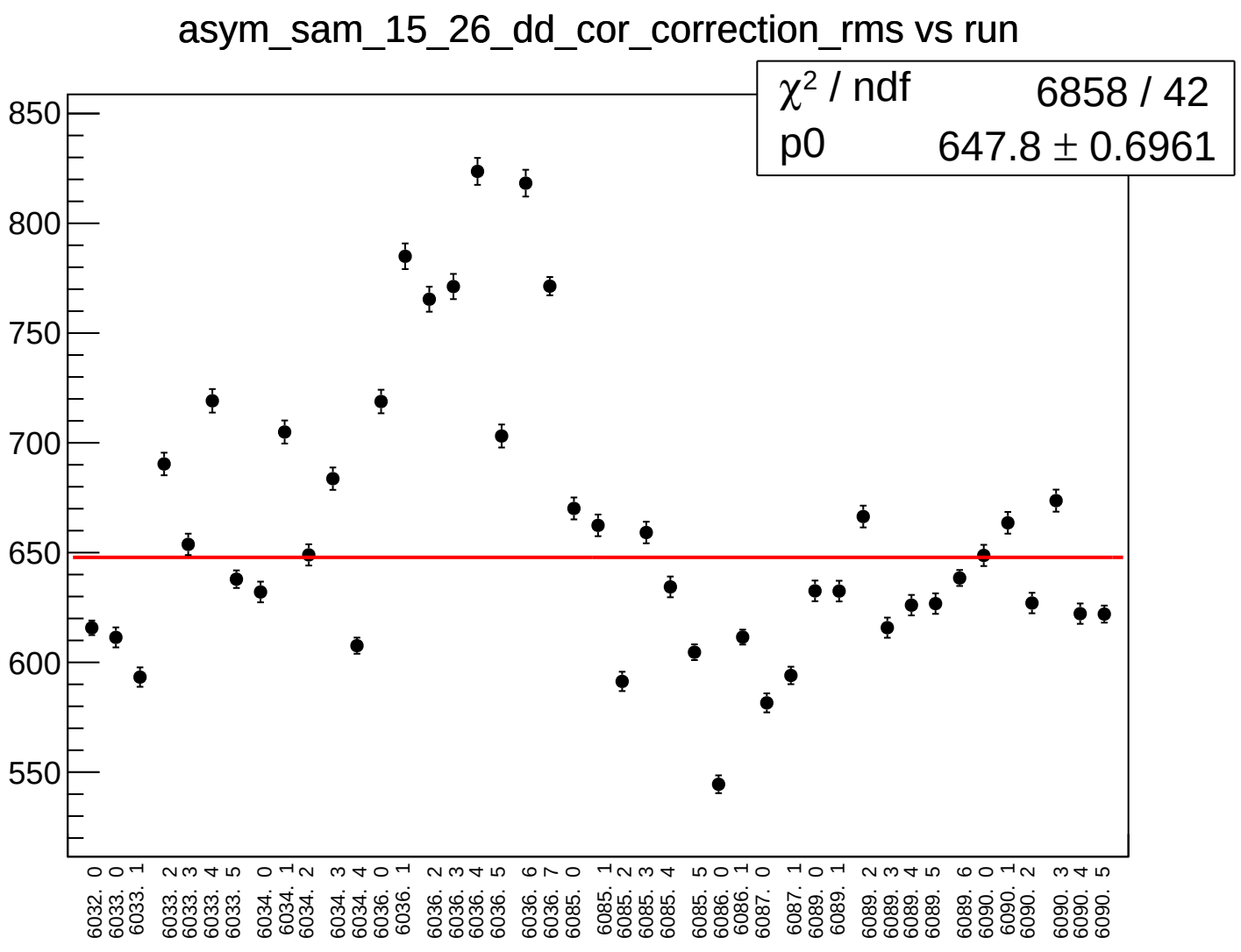
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 43.06 / 42
p0 −816.5 ± 984.4
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.02
Std Dev 54.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01037
Std Dev 1.001
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 6858 / 42
p0 647.8 ± 0.6961
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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6089. 5
6089. 6
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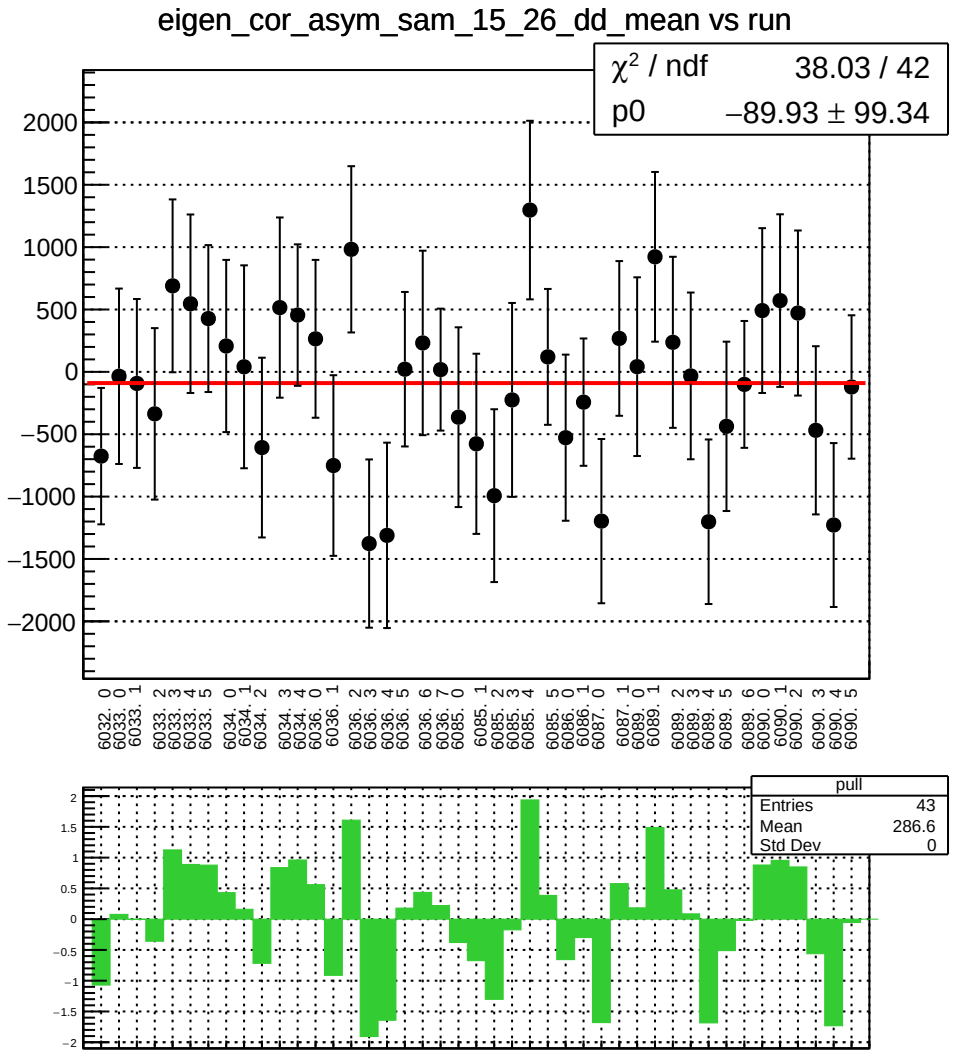
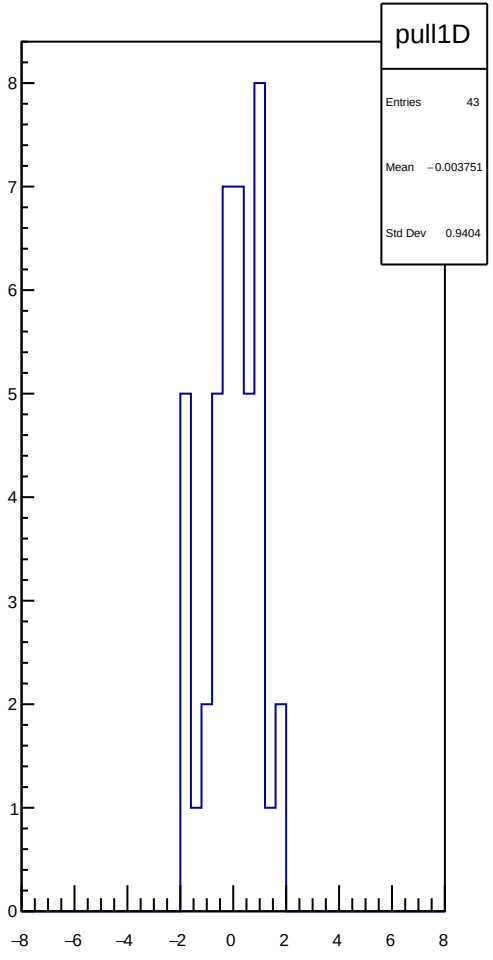
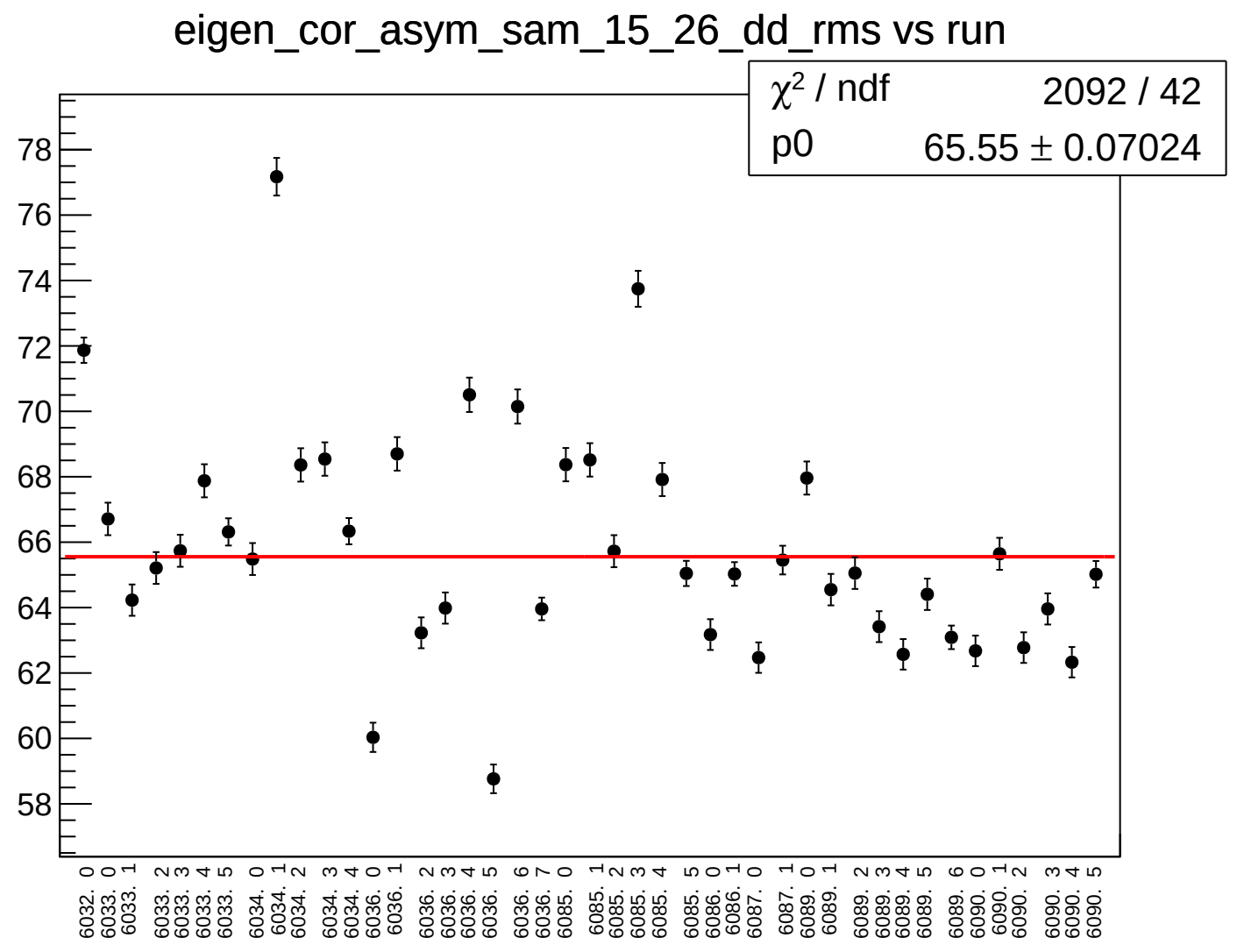
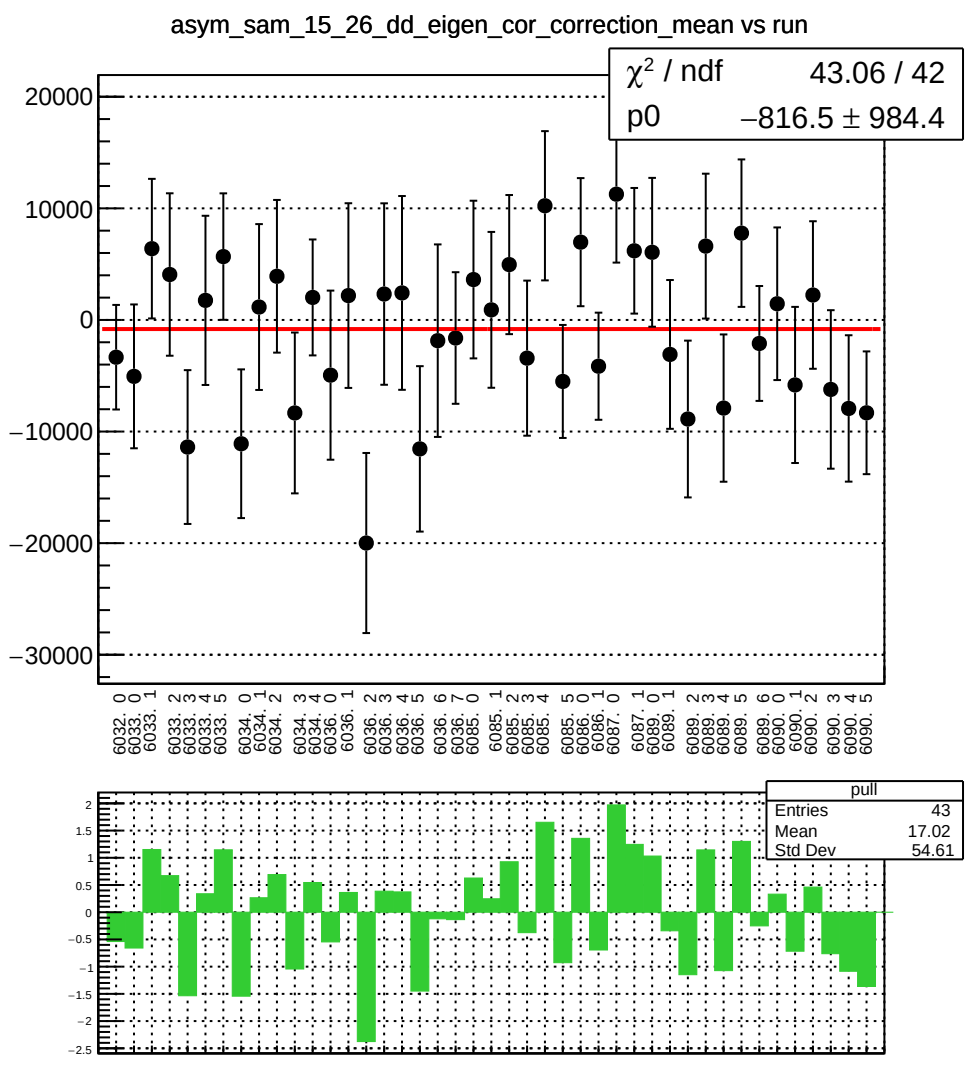
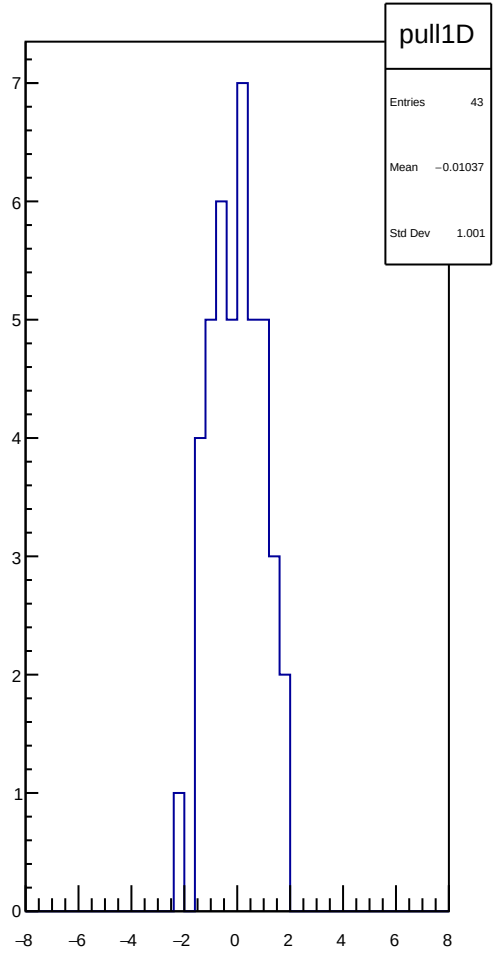
6090. 2
6090. 3
6090. 4
6090. 5

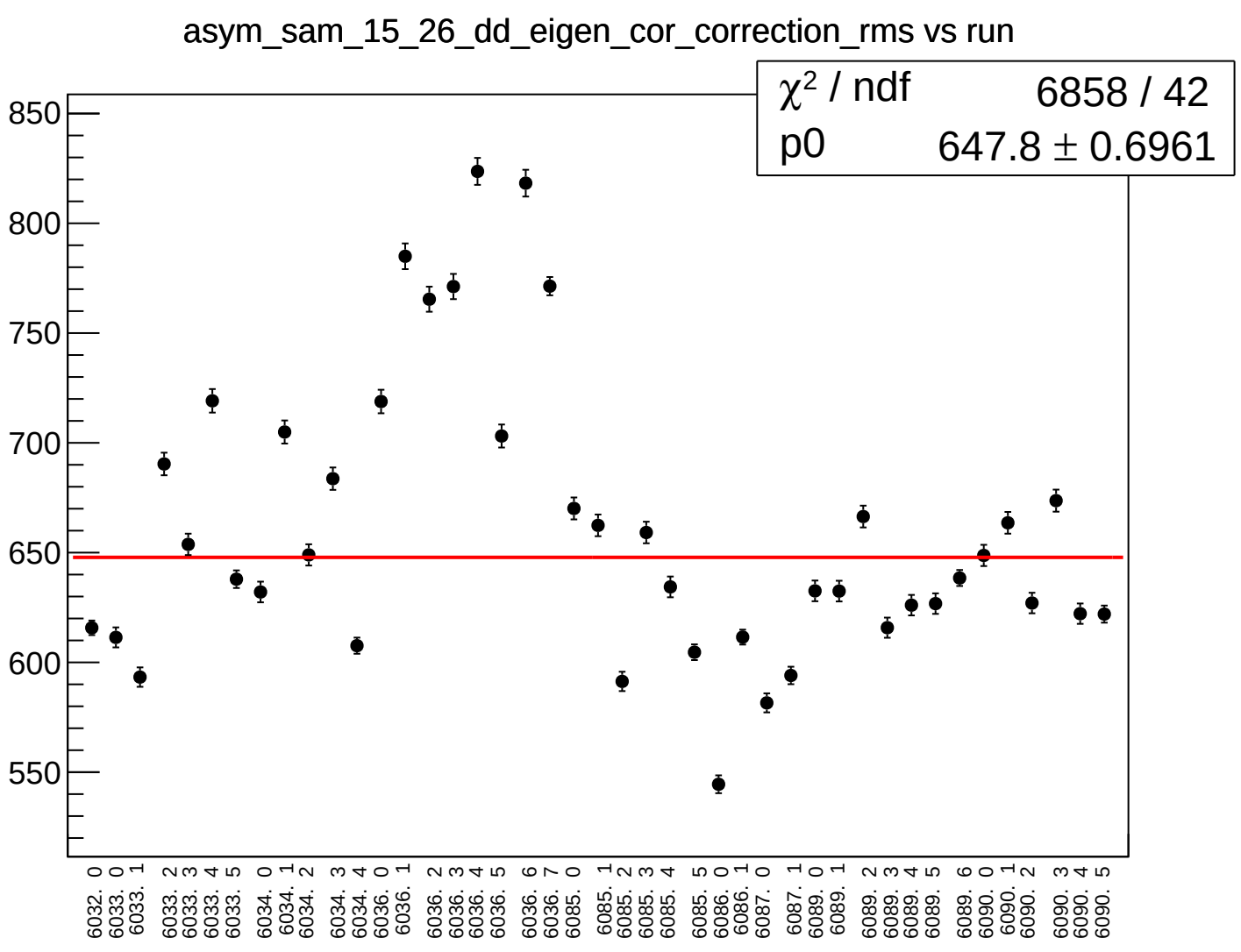

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 38.03 / 42
p0 −89.93 ± 99.34
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 286.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.003751
Std Dev 0.9404
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 2092 / 42
p0 65.55 ± 0.07024
78
76
74
72
70
68
66
64
62
60
58
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 43.06 / 42
p0 −816.5 ± 984.4
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 17.02
Std Dev 54.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean −0.01037
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6858 / 42
p0 647.8 ± 0.6961
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
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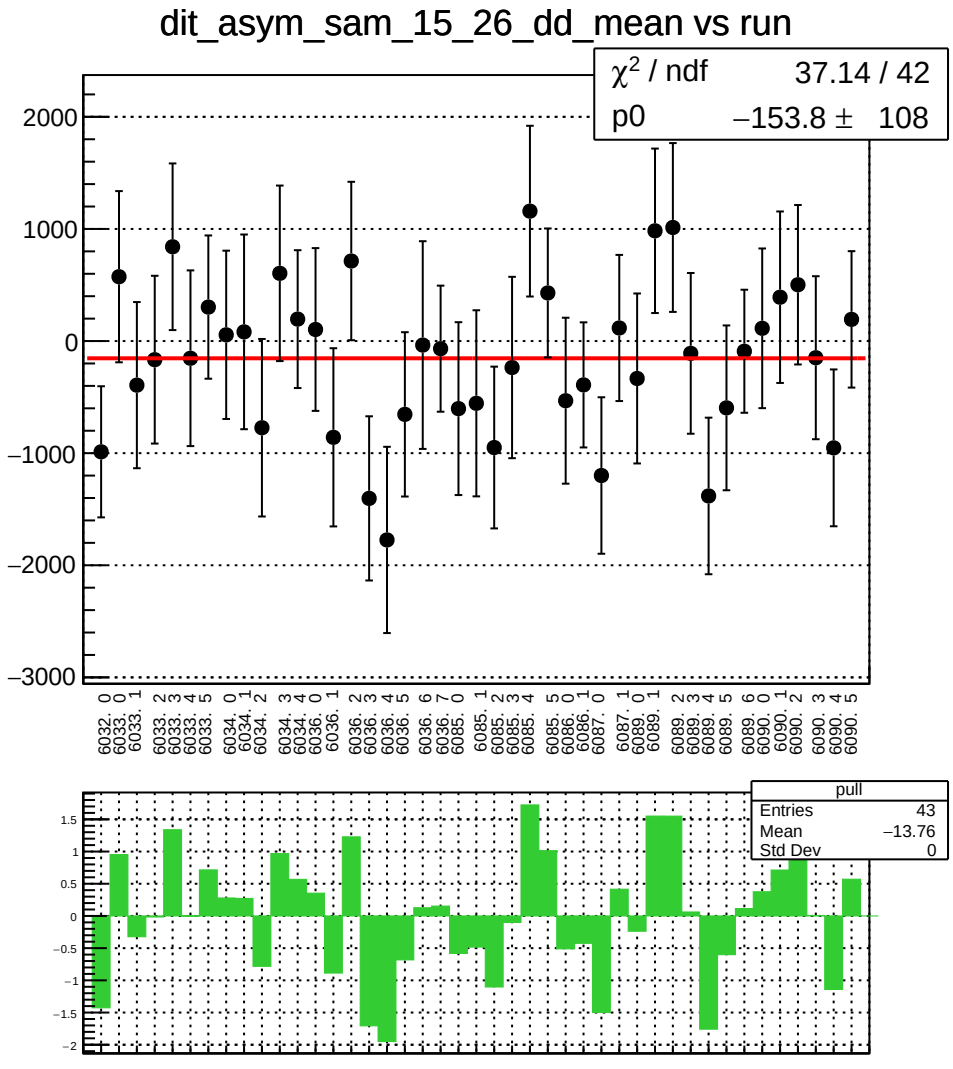
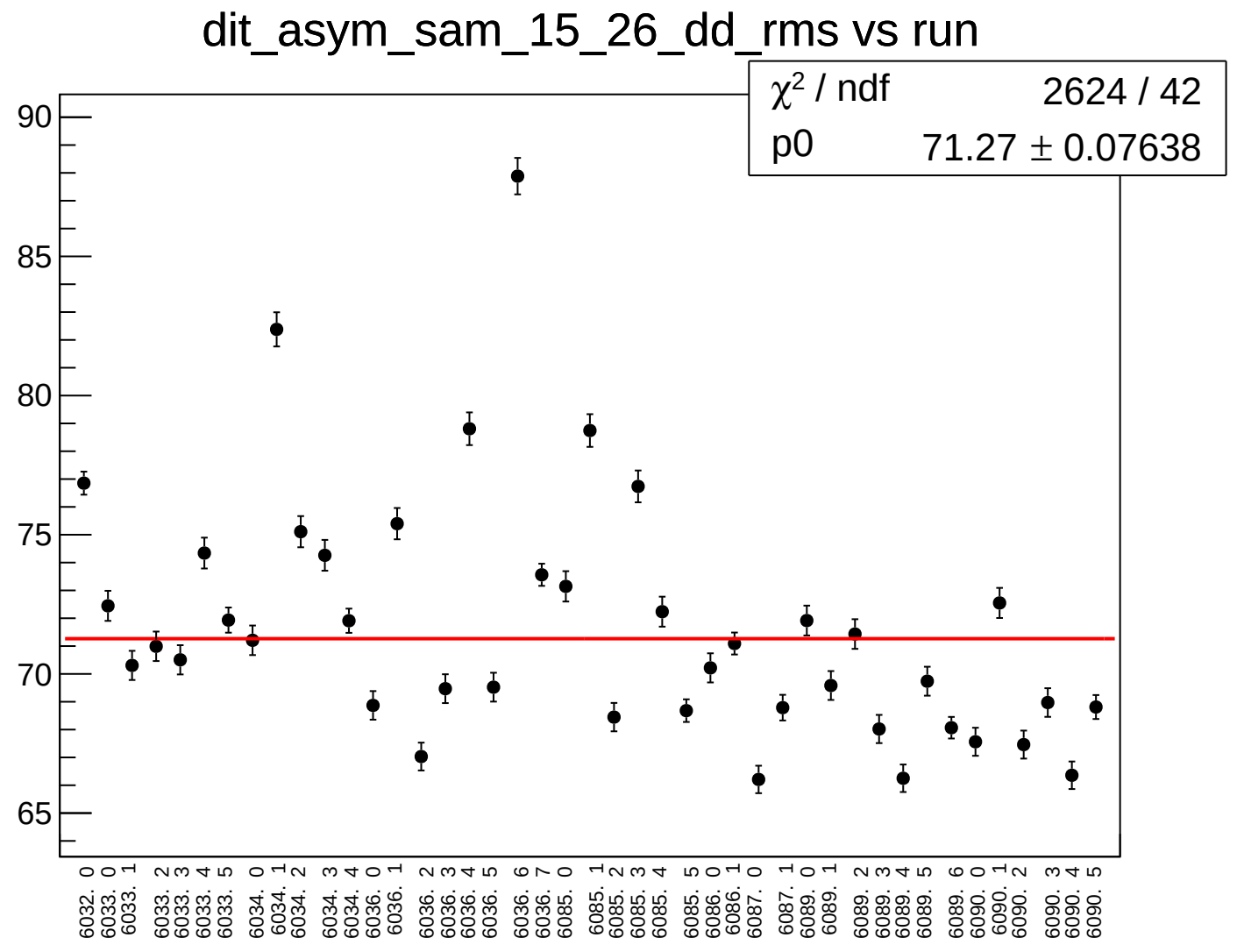
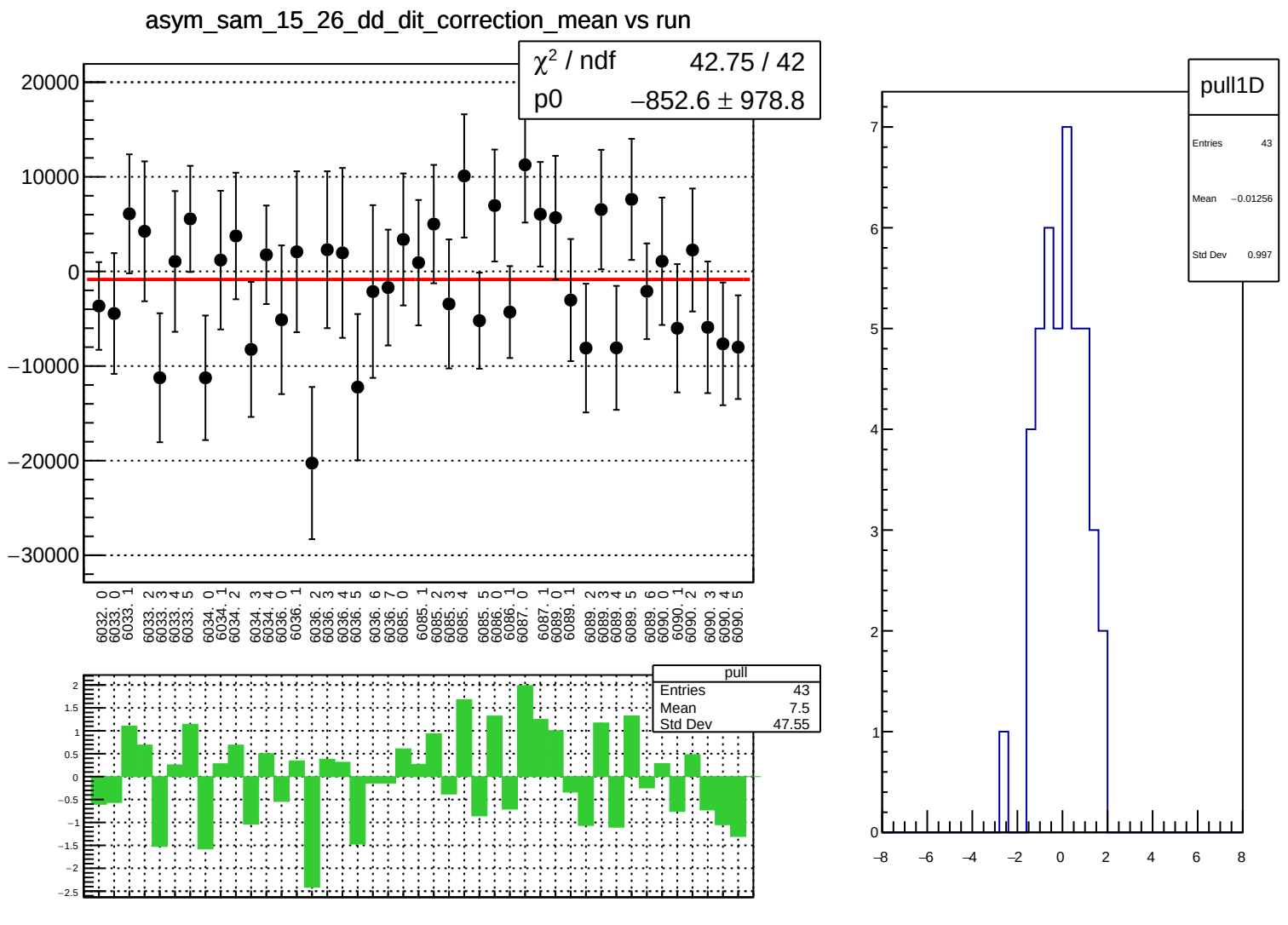
6090. 4
6090. 5


dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 37.14 / 42
p0 −153.8 ± 108
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.005685
Std Dev 0.9293
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2624 / 42
p0 71.27 ± 0.07638
90
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 42.75 / 42
p0 −852.6 ± 978.8
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.5
Std Dev 47.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01256
Std Dev 0.997
7
6
5
4
3
2
1
0
−8
−6
−4
−2
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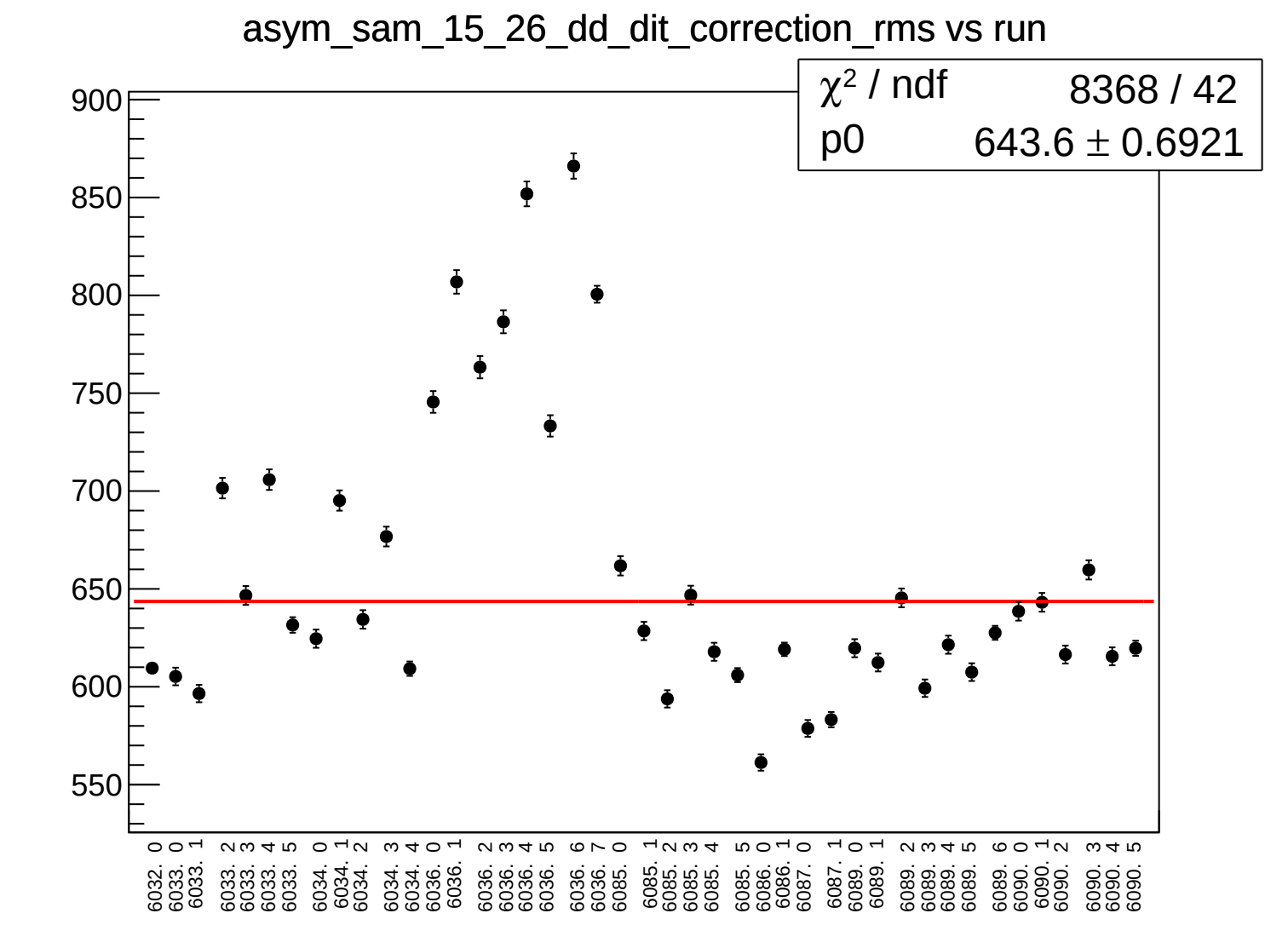
2
4
6
8


asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 8368 / 42
p0 643.6 ± 0.6921
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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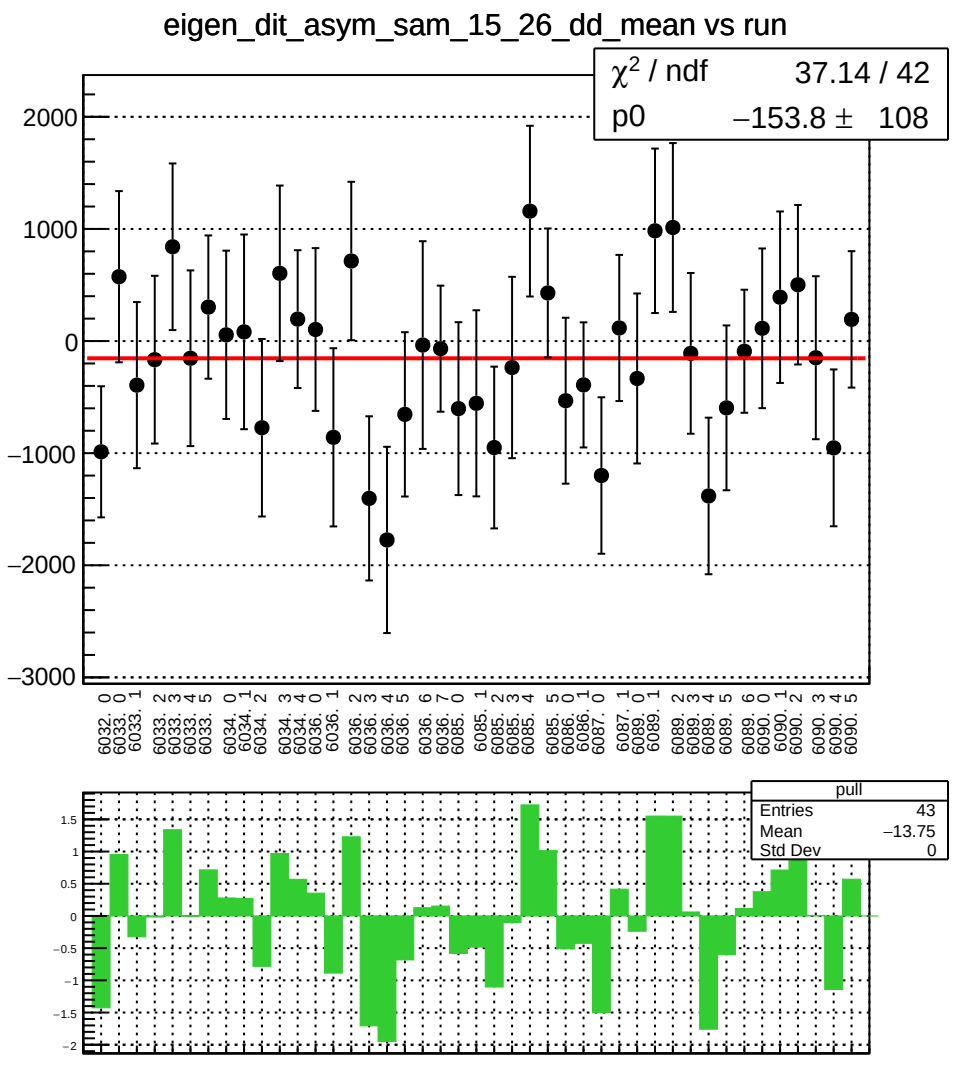
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 37.14 / 42
p0 −153.8 ± 108
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
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6036. 3
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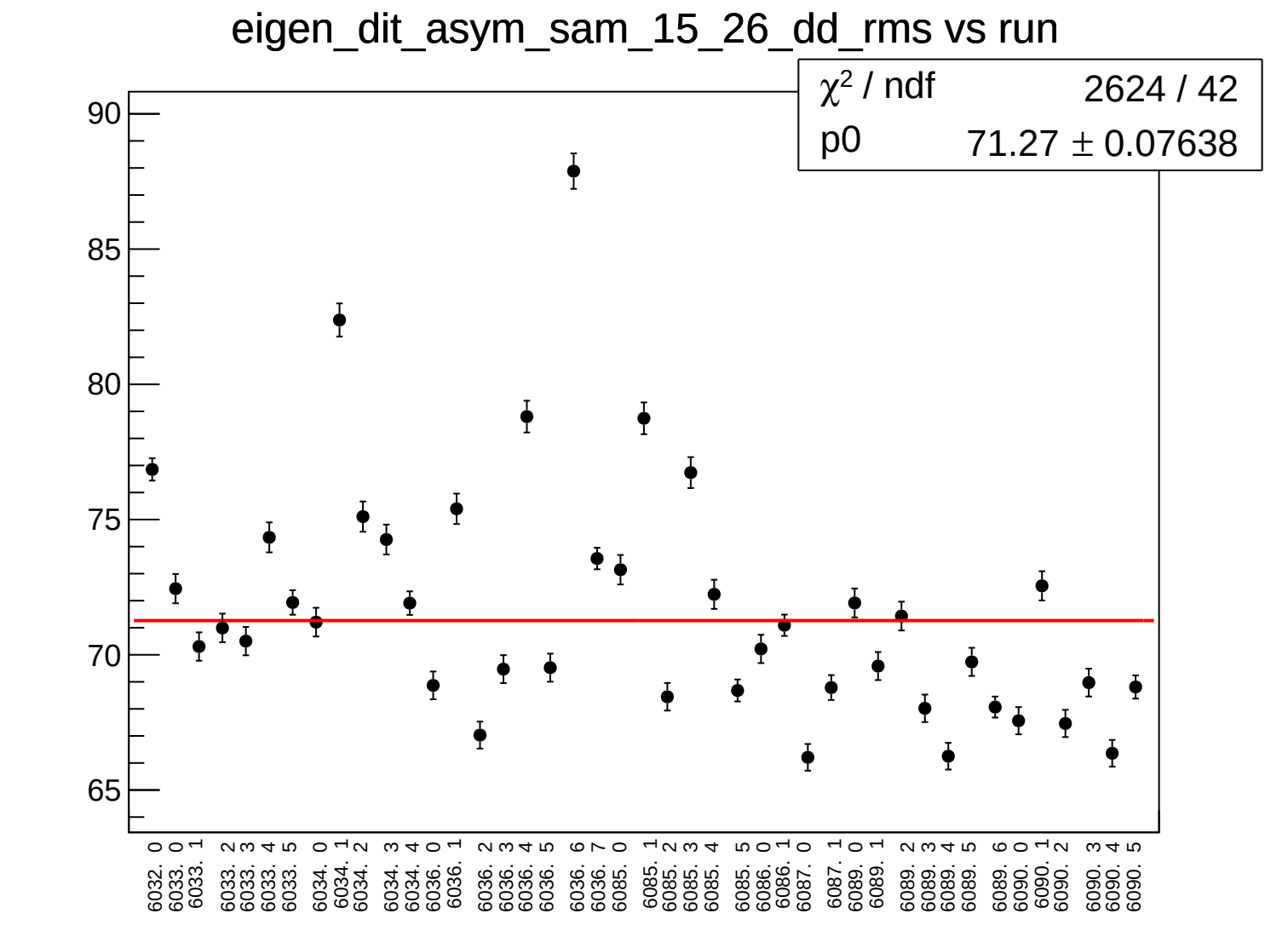
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −13.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.005684
Std Dev 0.9293
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2624 / 42
p0 71.27 ± 0.07638
90
85
80
75
70
65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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6089. 5
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6090. 2
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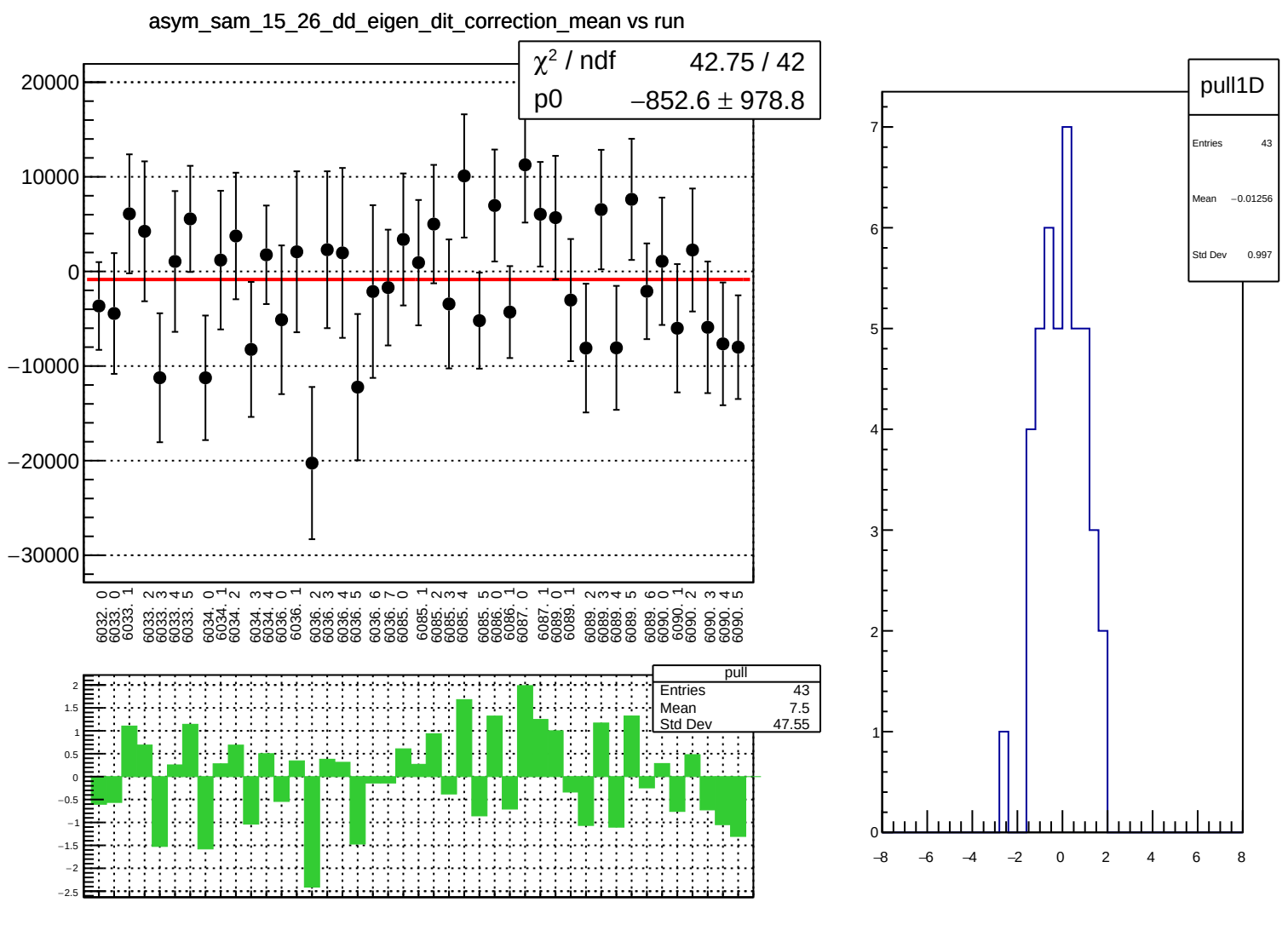
6090. 4
6090. 5


asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.75 / 42
p0 −852.6 ± 978.8
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
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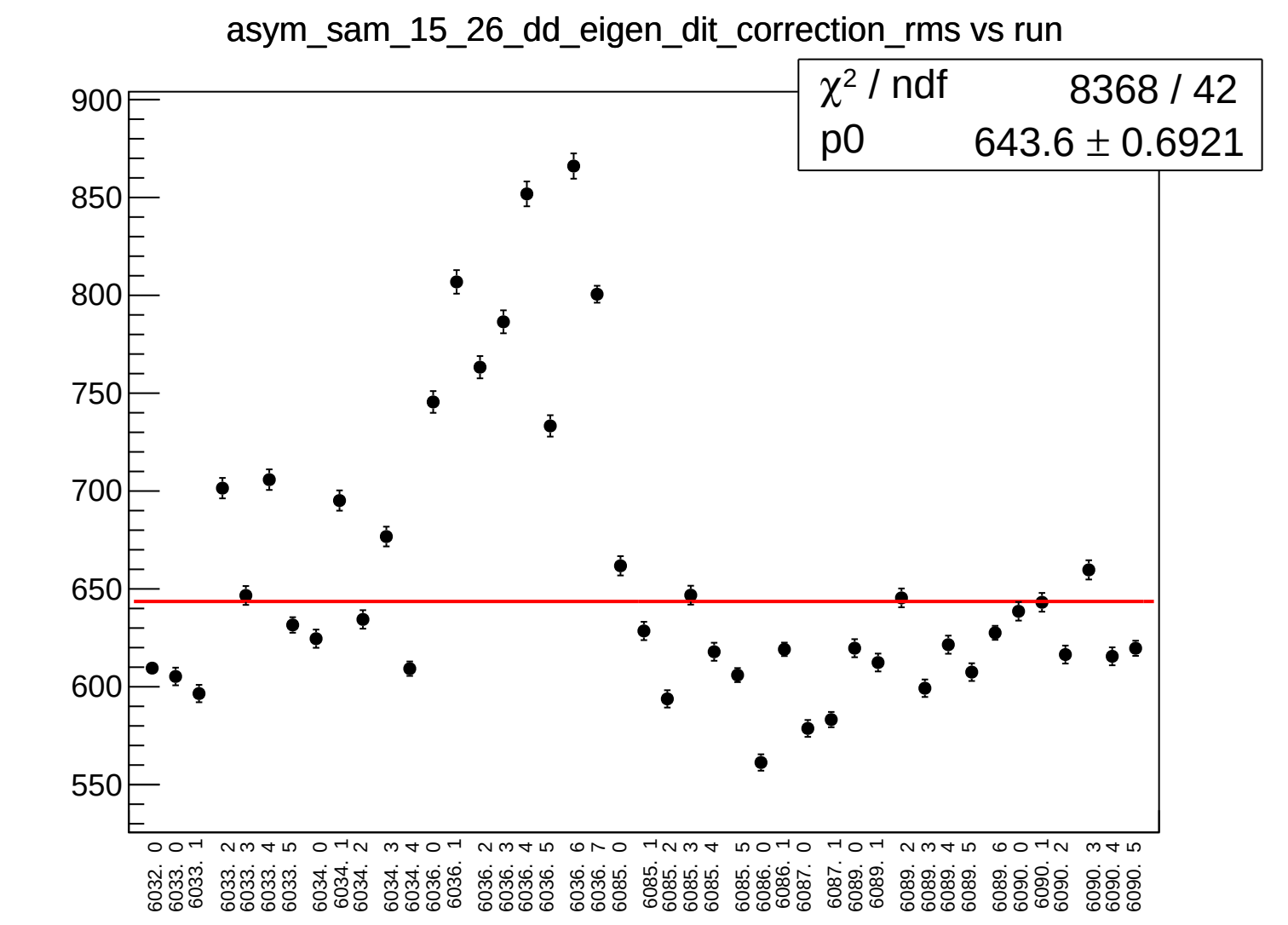
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.5
Std Dev 47.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01256
Std Dev 0.997
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8368 / 42
p0 643.6 ± 0.6921
900
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
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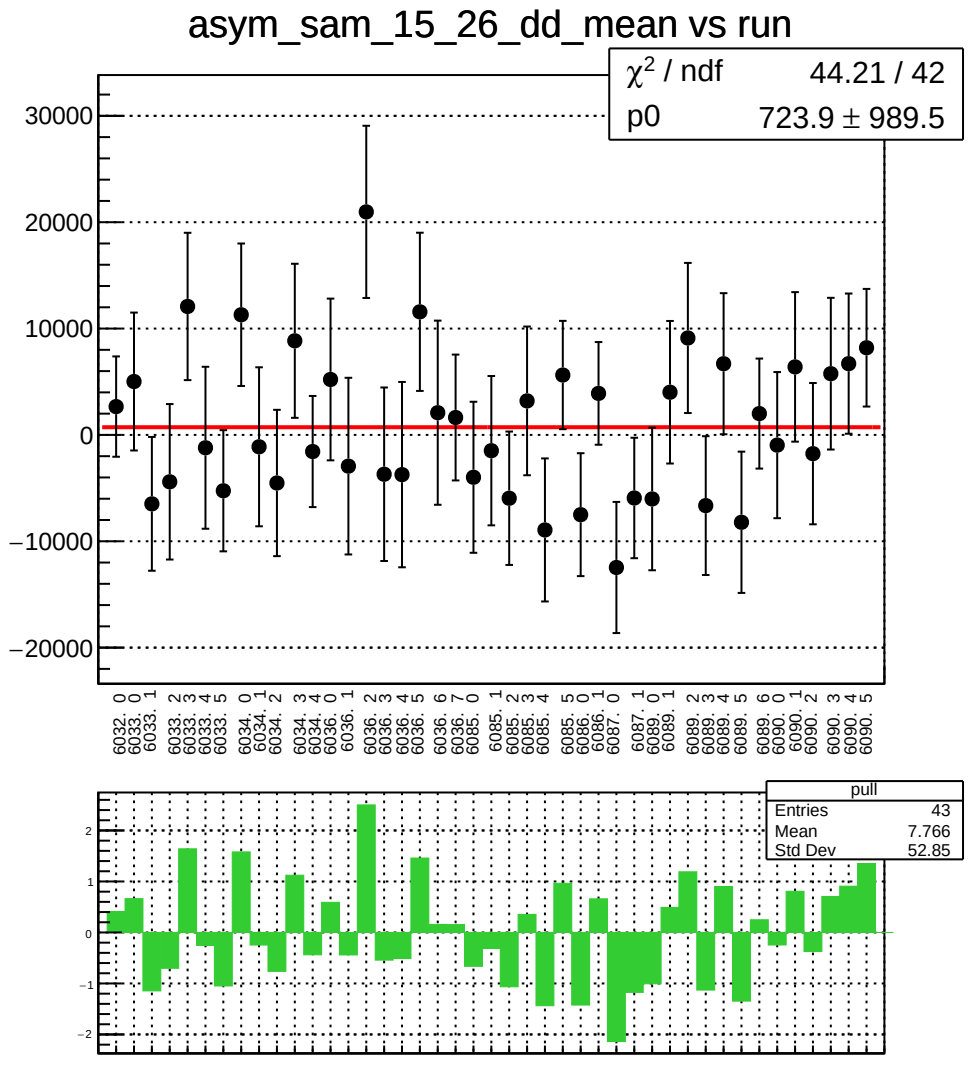
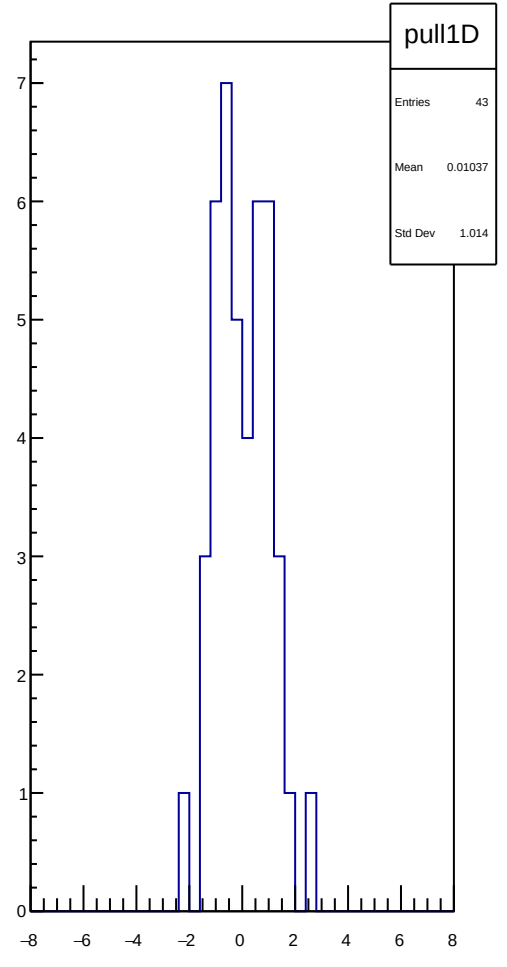
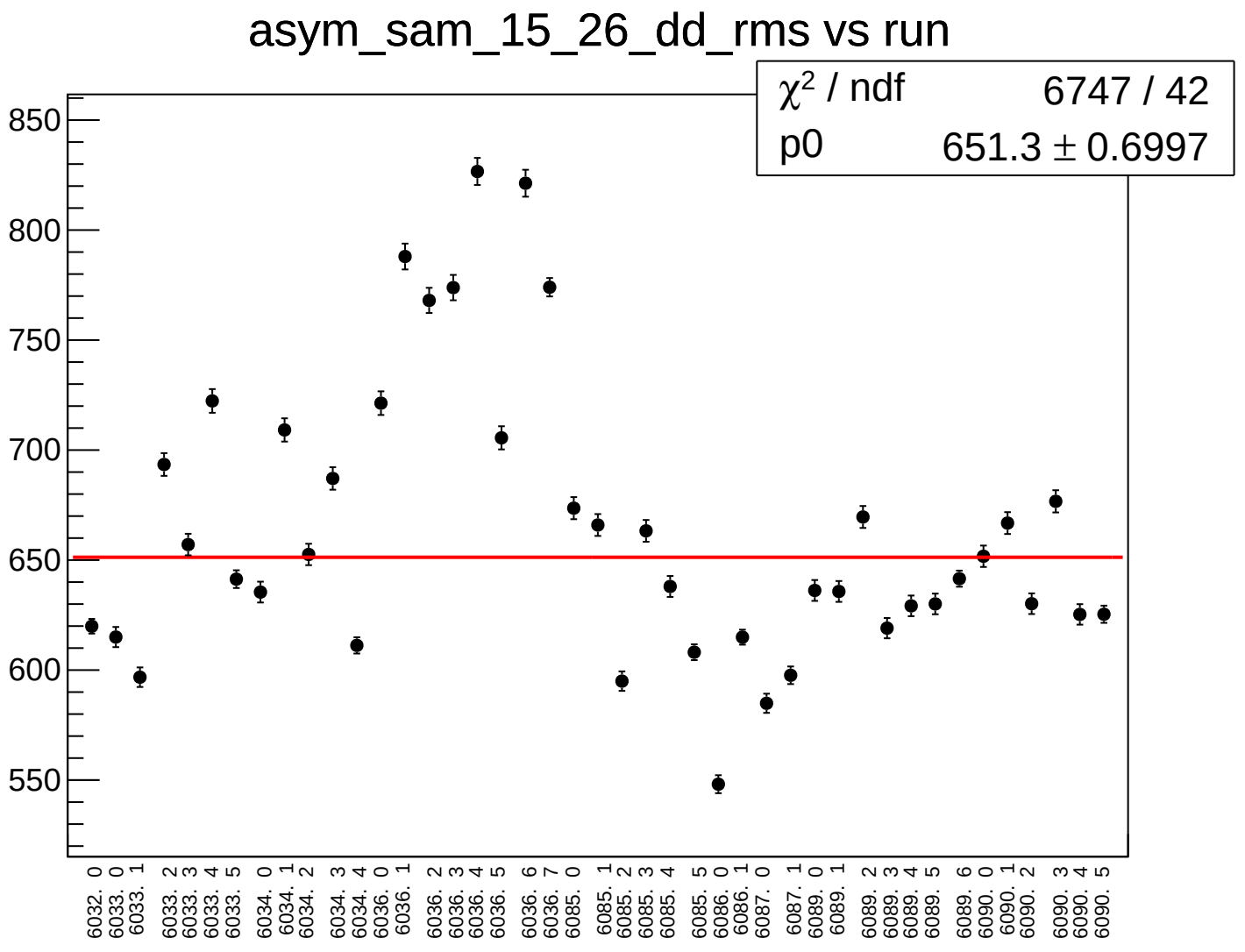
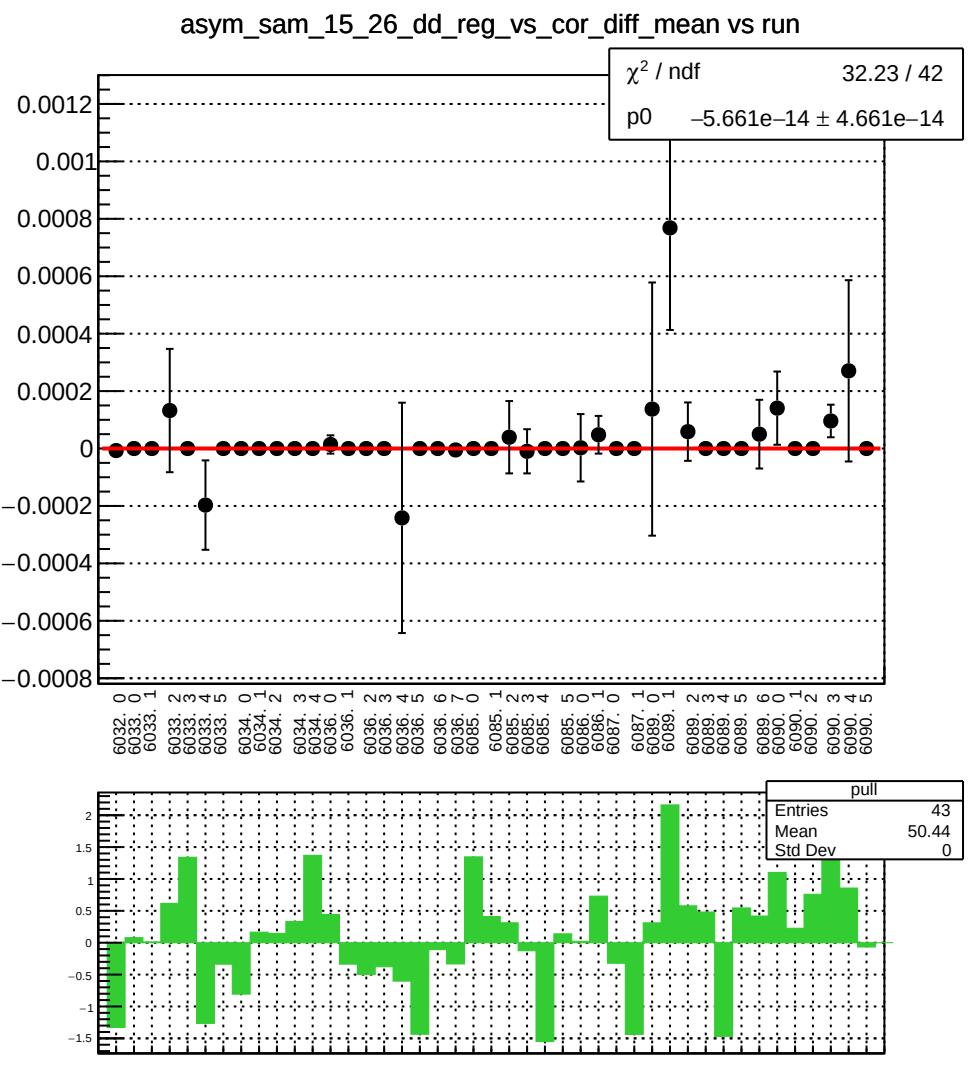
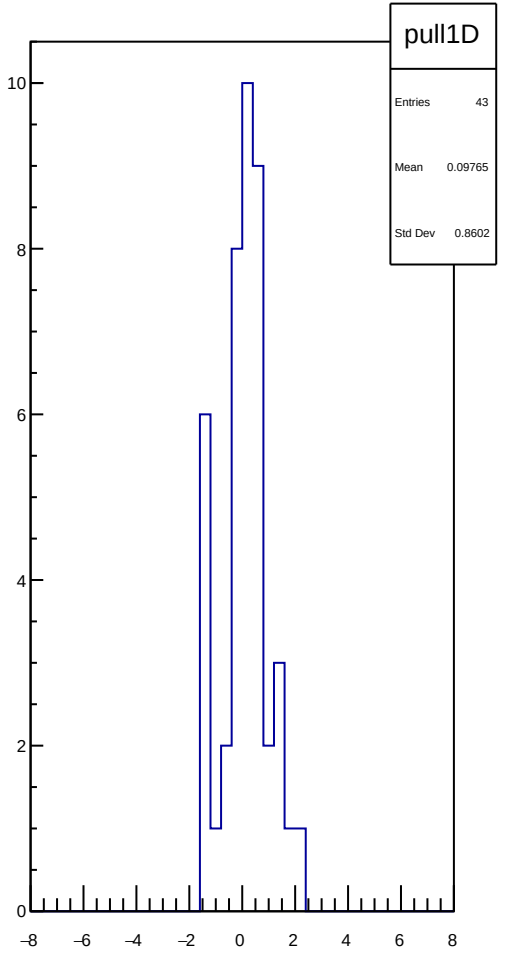
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

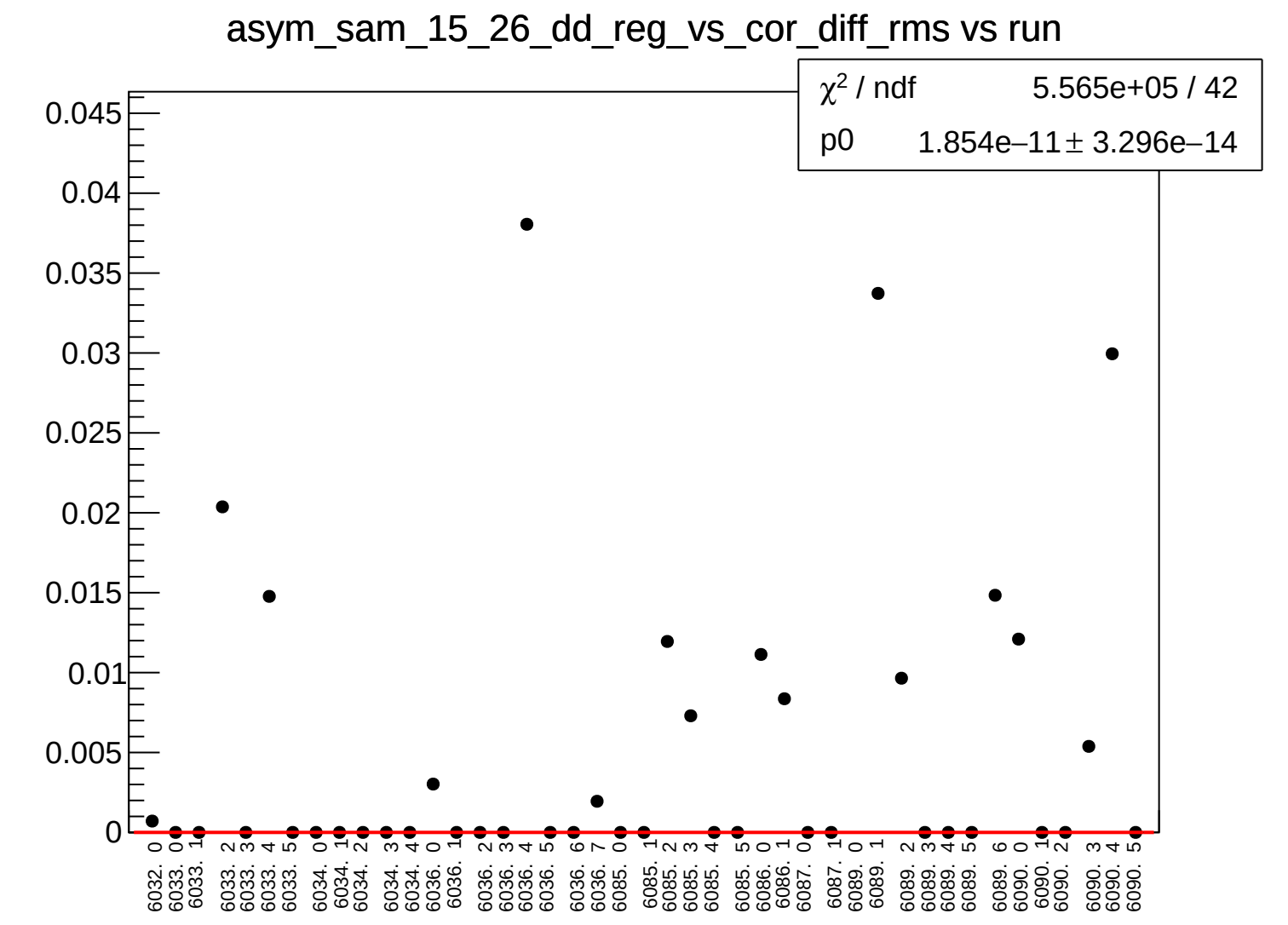

asym_sam_15_26_dd_mean vs run
χ² / ndf 44.21 / 42
p0 723.9 ± 989.5
30000
20000
10000
0
−10000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.766
Std Dev 52.85
2
1
0
−1
−2

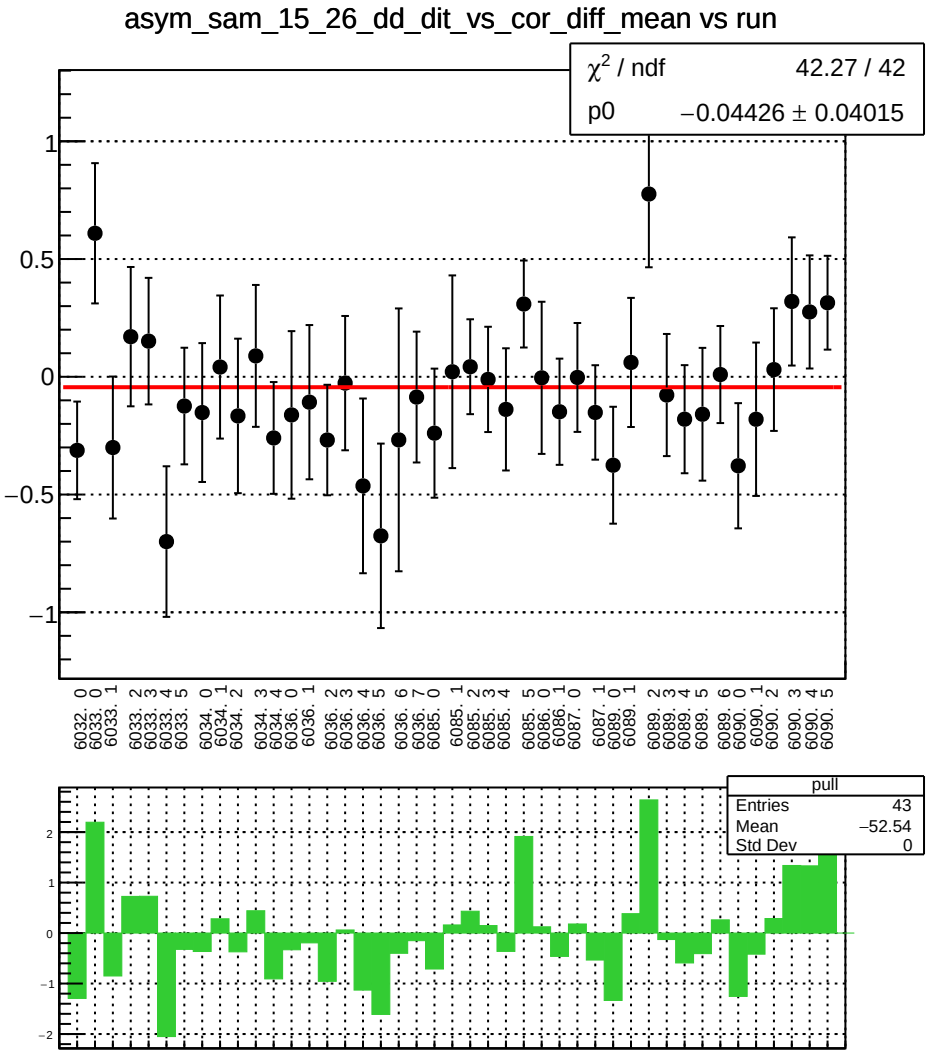

pull1D
Entries 43
Mean 0.01037
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

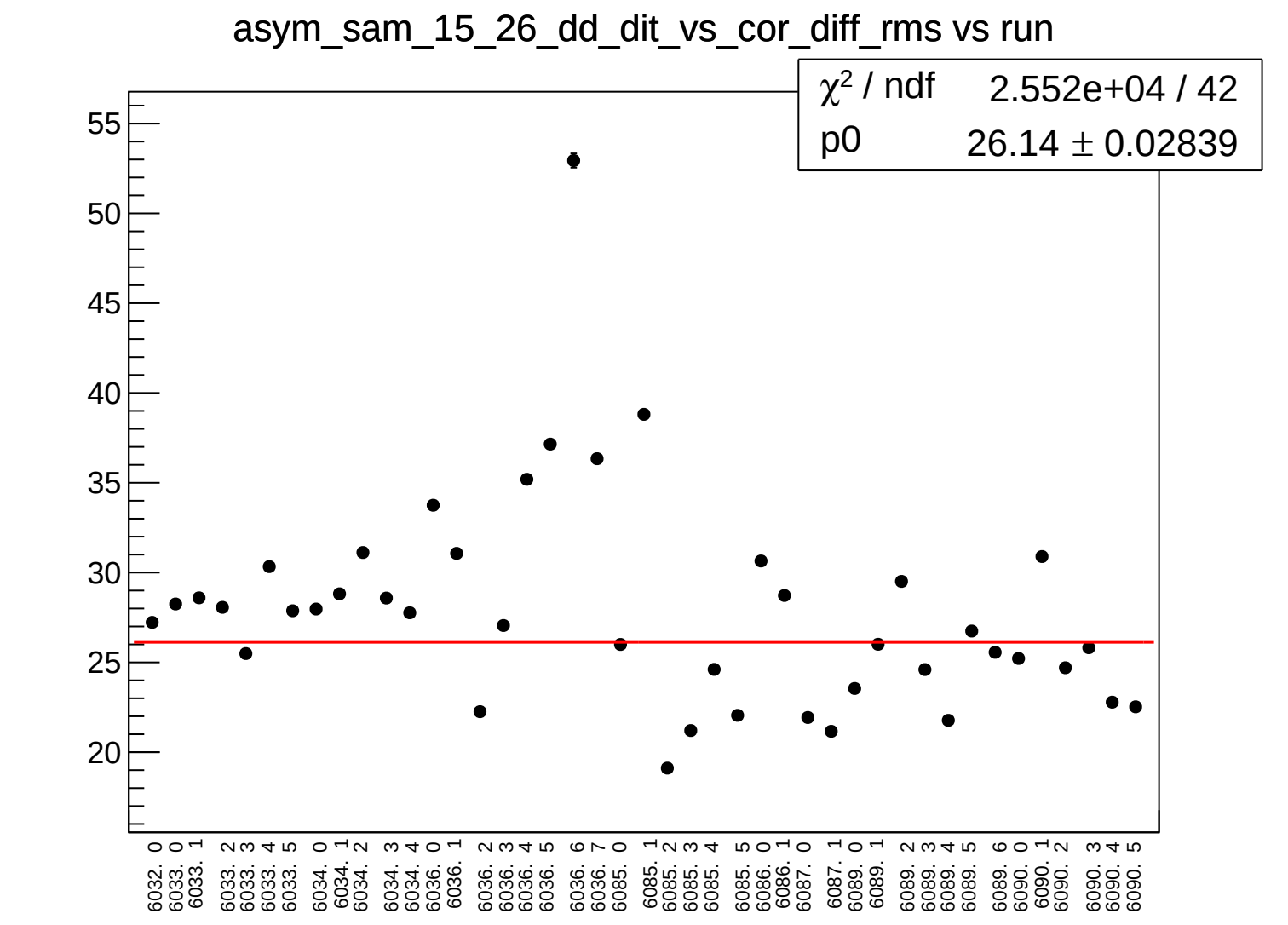

asym_sam_15_26_dd_rms vs run
χ² / ndf 6747 / 42
p0 651.3 ± 0.6997
850
800
750
700
650
600
550
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.23 / 42
p0 −5.661e−14 ± 4.661e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 50.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

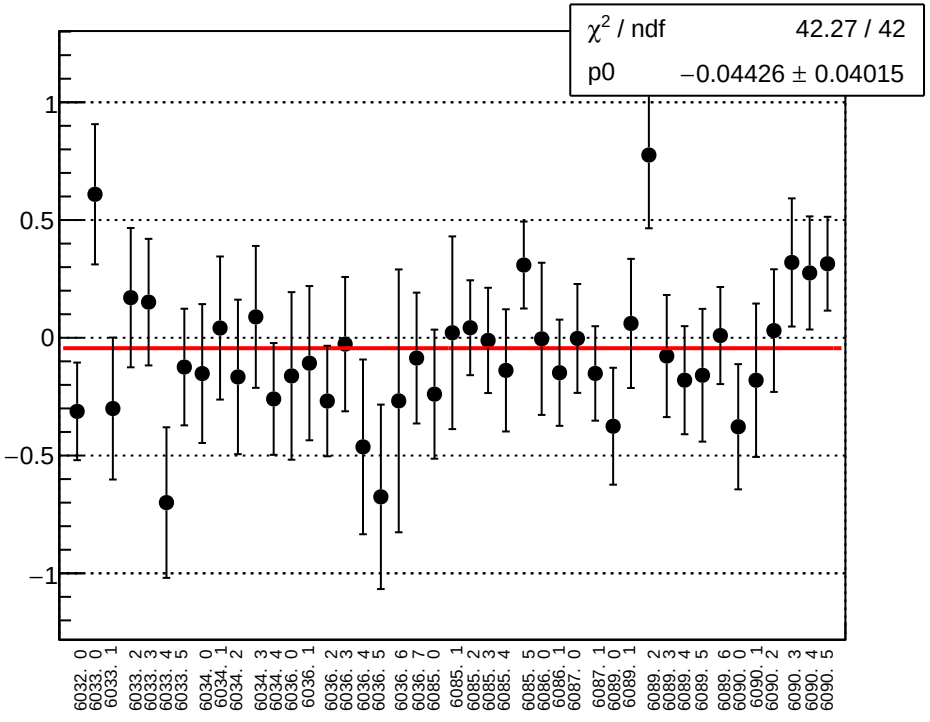

pull1D
Entries 43
Mean 0.09765
Std Dev 0.8602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

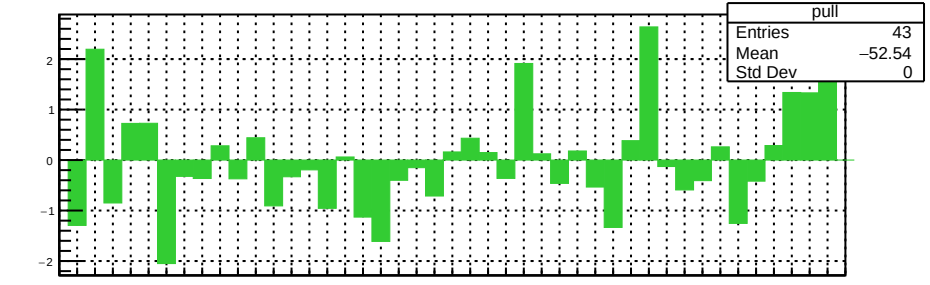

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.565e+05 / 42
p0 1.854e−11 ± 3.296e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

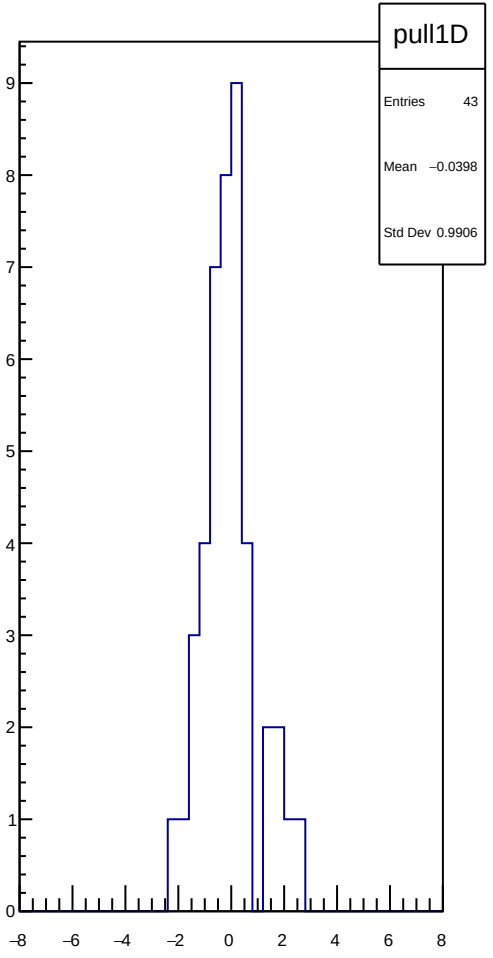

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.27 / 42
p0 −0.04426 ± 0.04015
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −52.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0398
Std Dev 0.9906
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

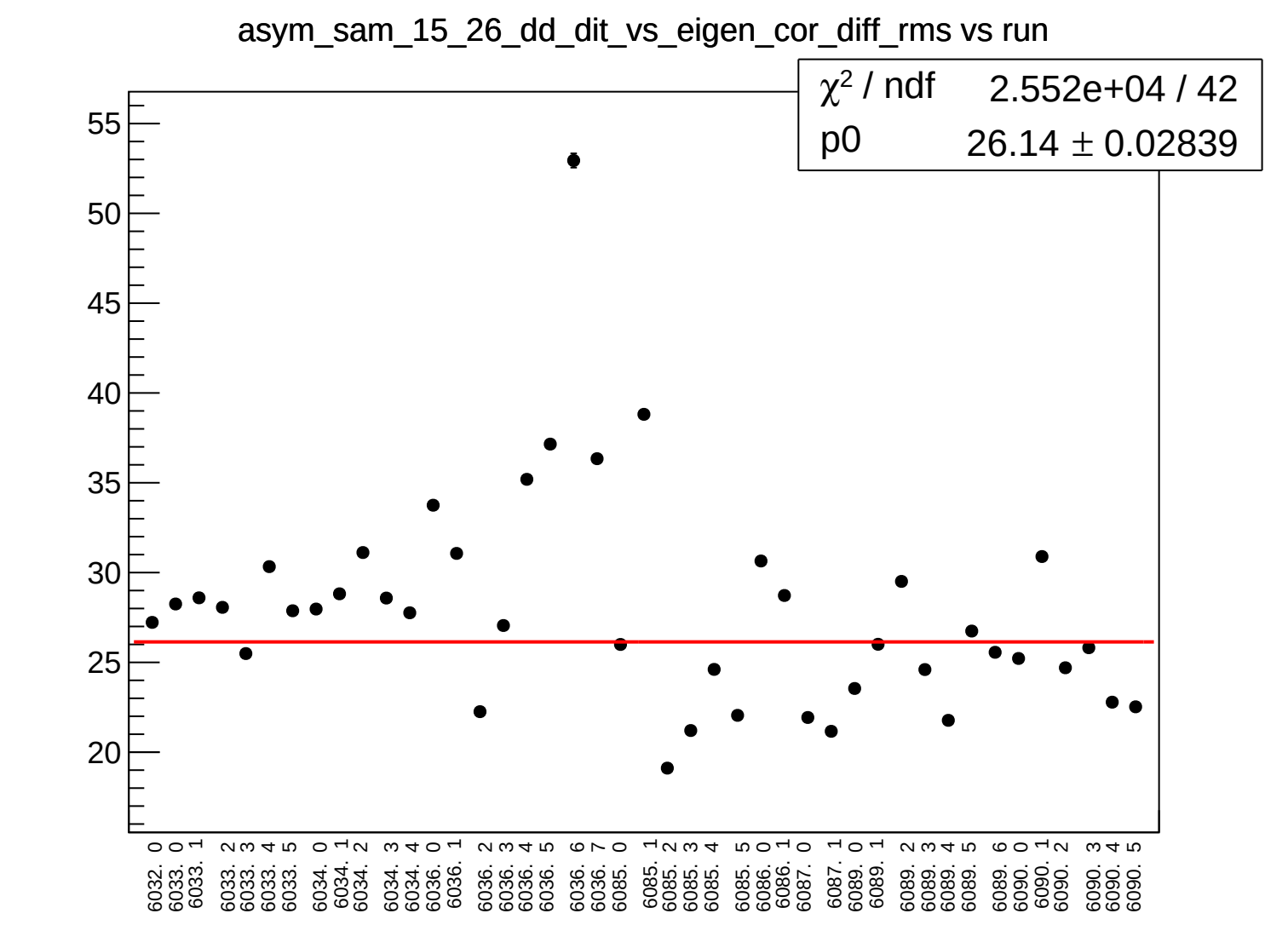

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 42
p0 26.14 ± 0.02839
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

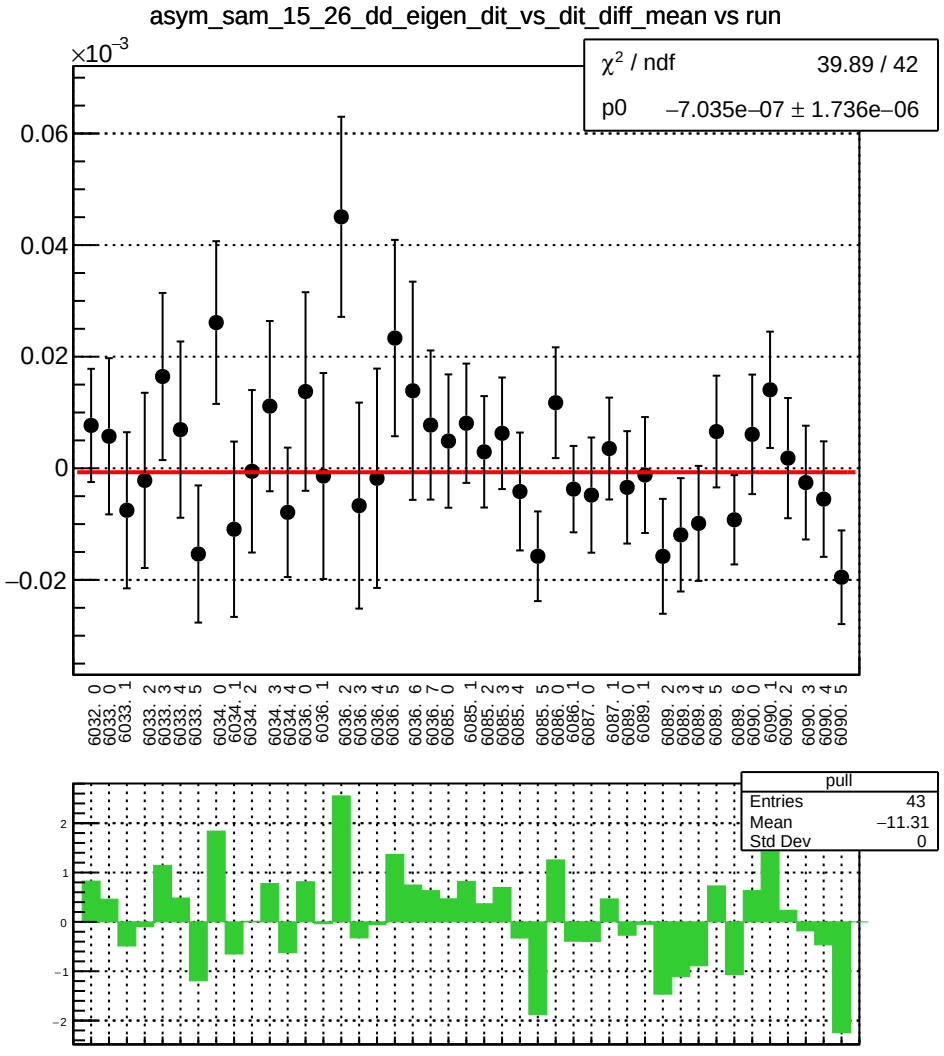
asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run

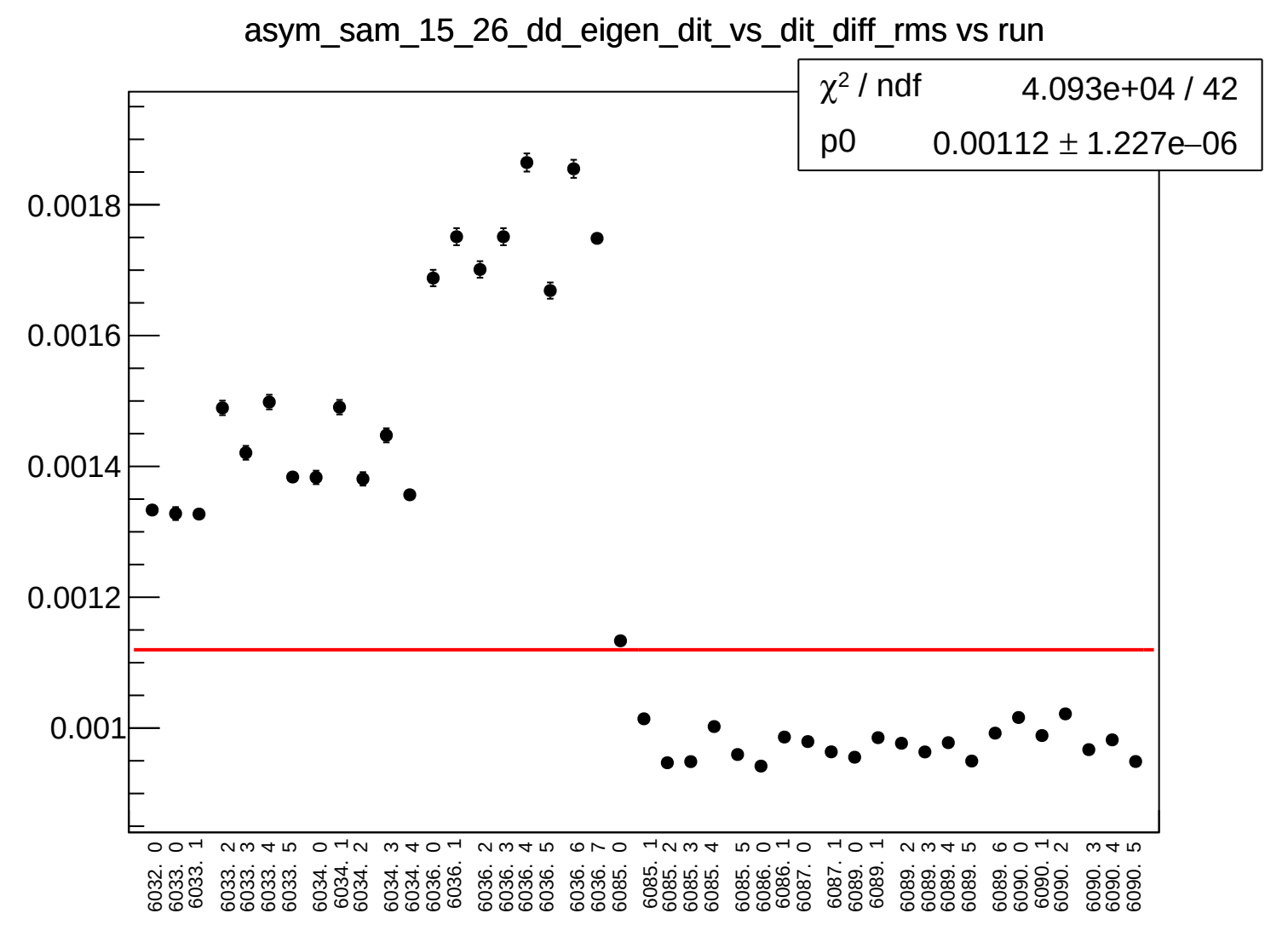


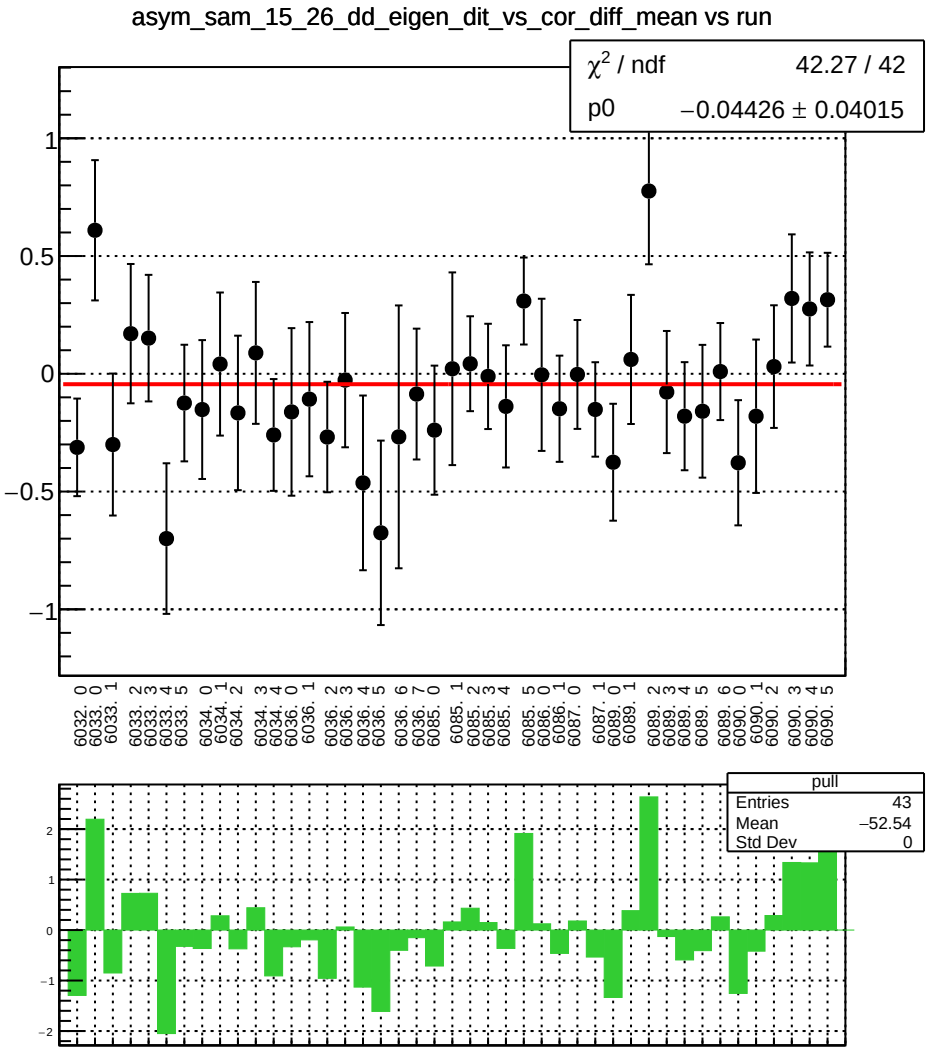


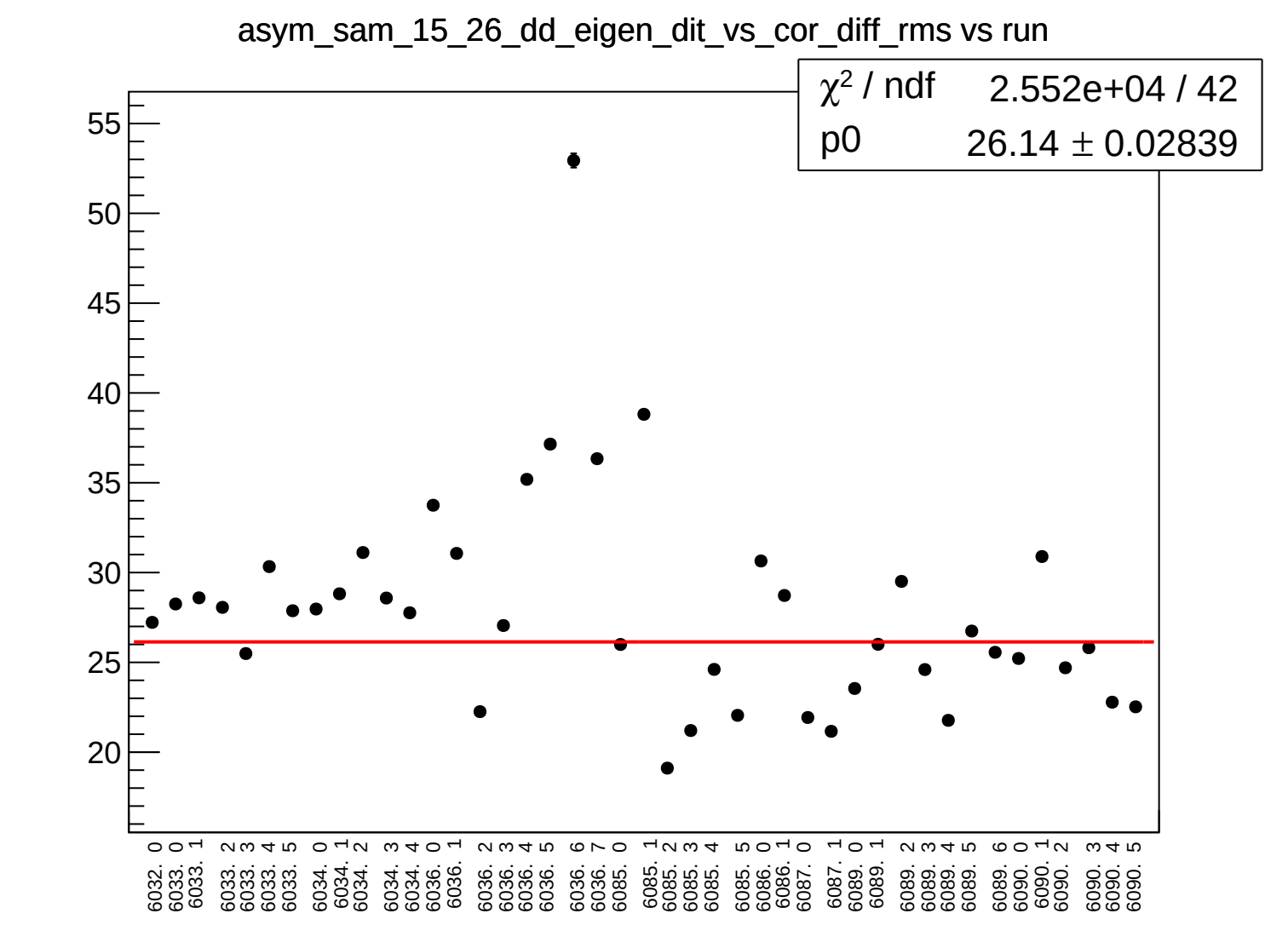



asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 42
p0 26.14 ± 0.02839
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

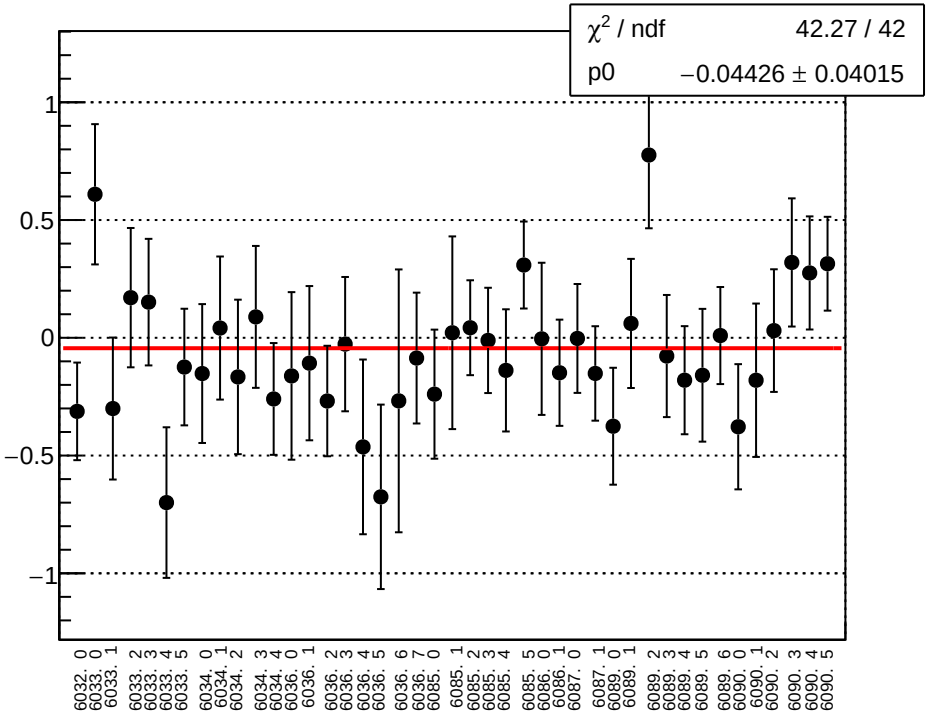

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 39.89 / 42
p0 −7.035e−07 ± 1.736e−06
0.06
0.04
0.02
0
−0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −11.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1061
Std Dev 0.9573
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

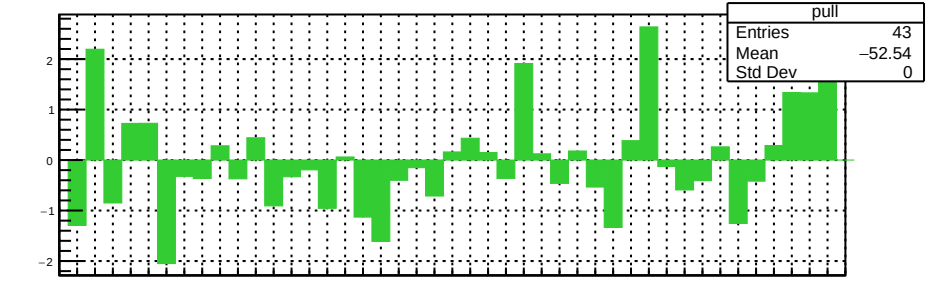

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.093e+04 / 42
p0 0.00112 ± 1.227e–06
0.0018
0.0016
0.0014
0.0012
0.001
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

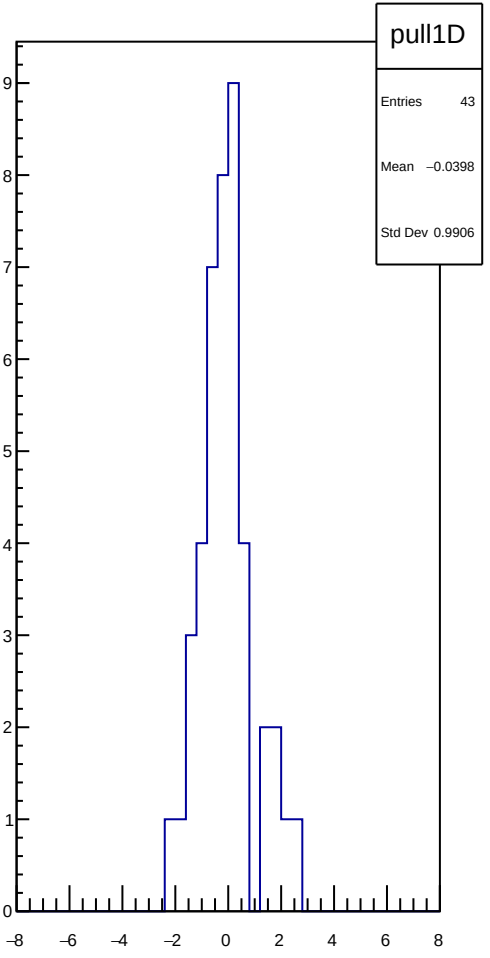

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.27 / 42
p0 −0.04426 ± 0.04015
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −52.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0398
Std Dev 0.9906
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

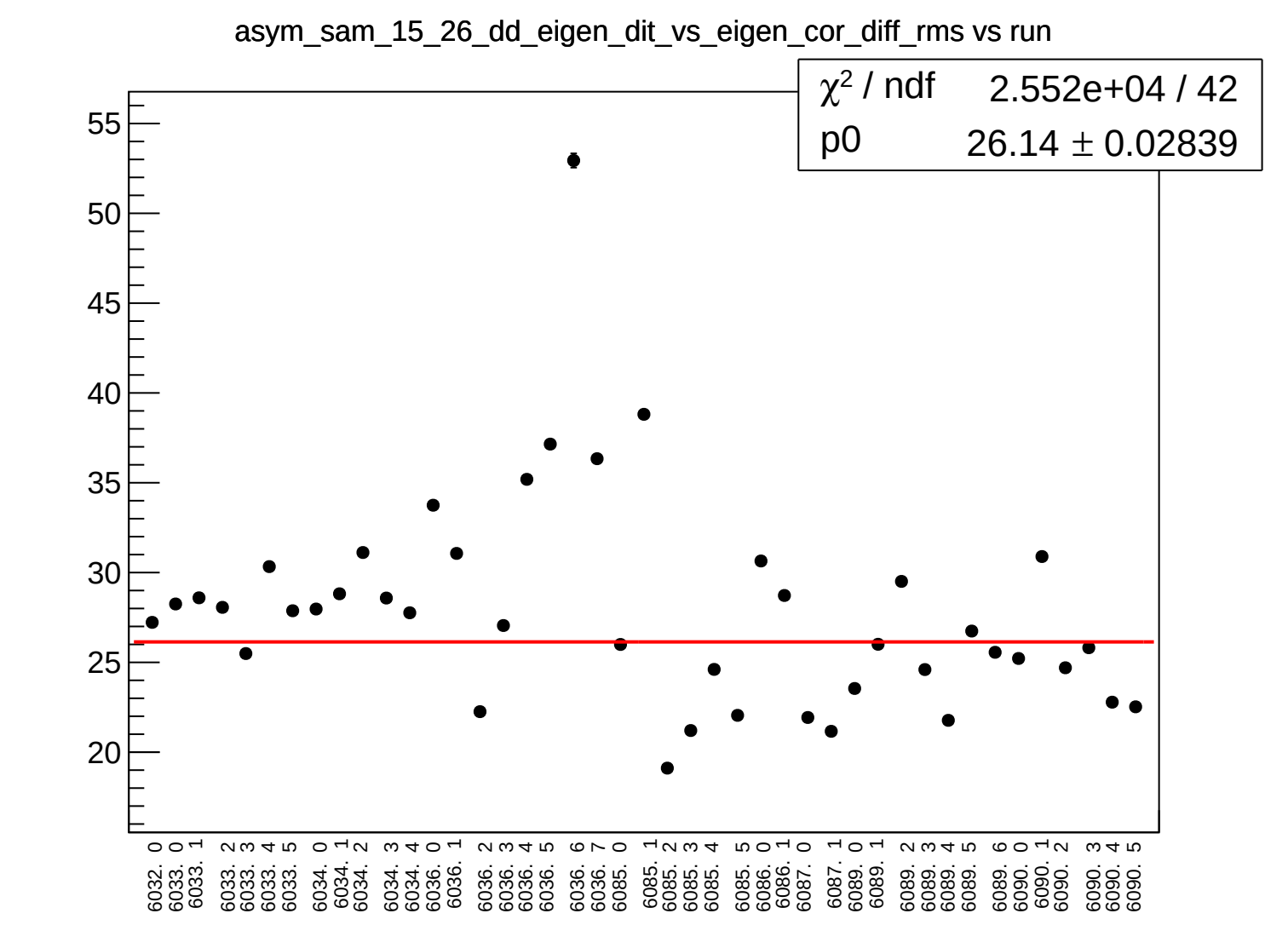

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 42
p0 26.14 ± 0.02839
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

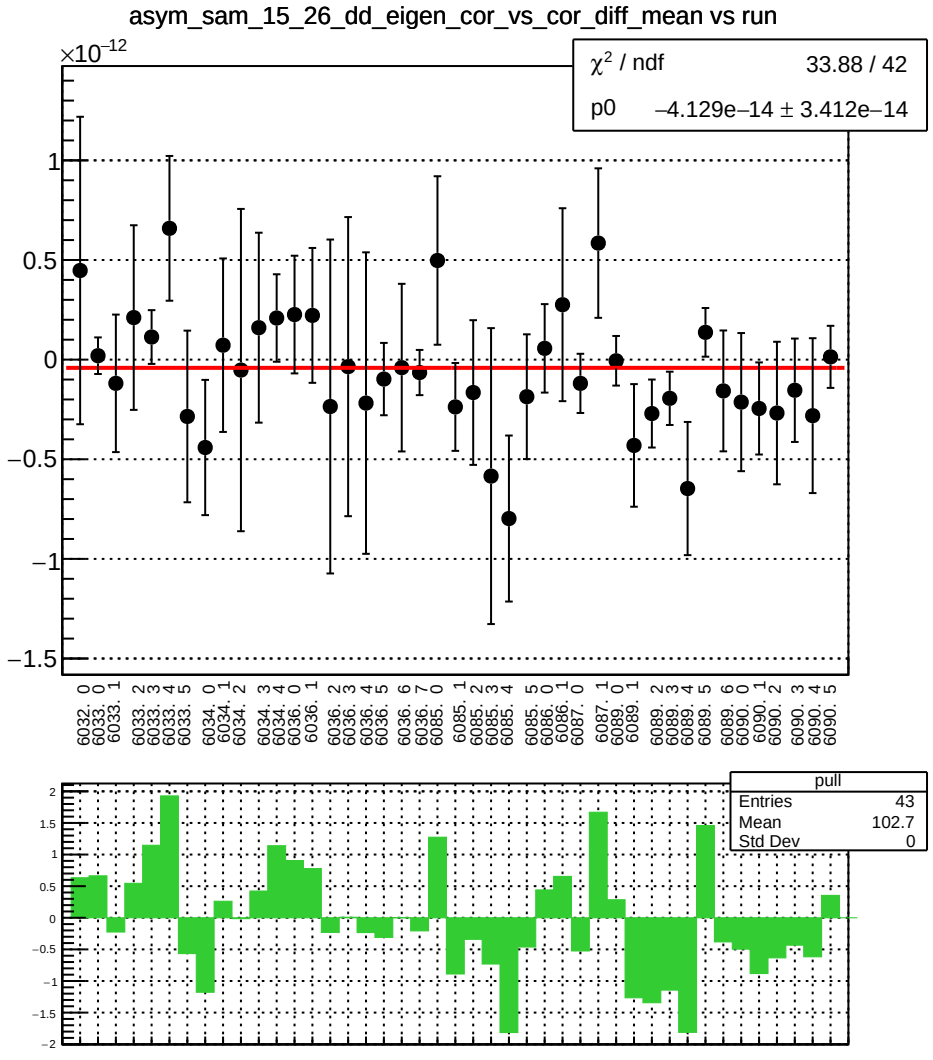
asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

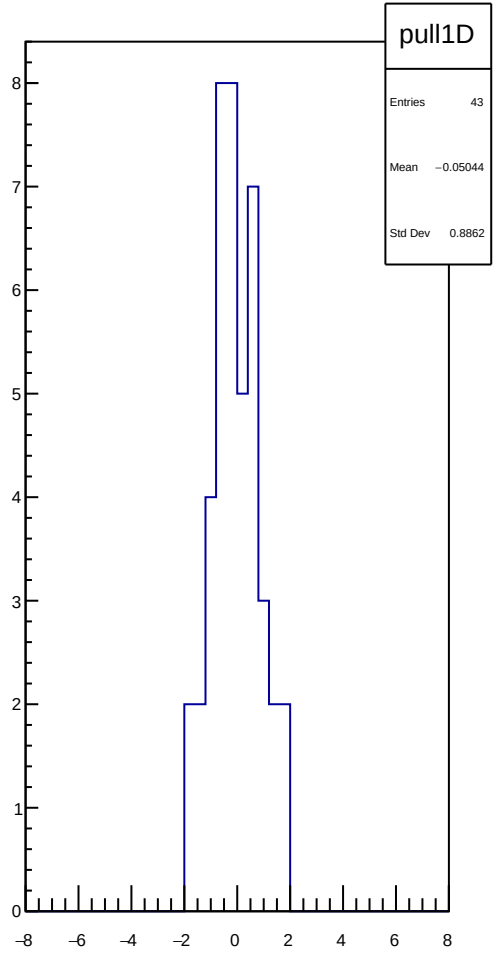


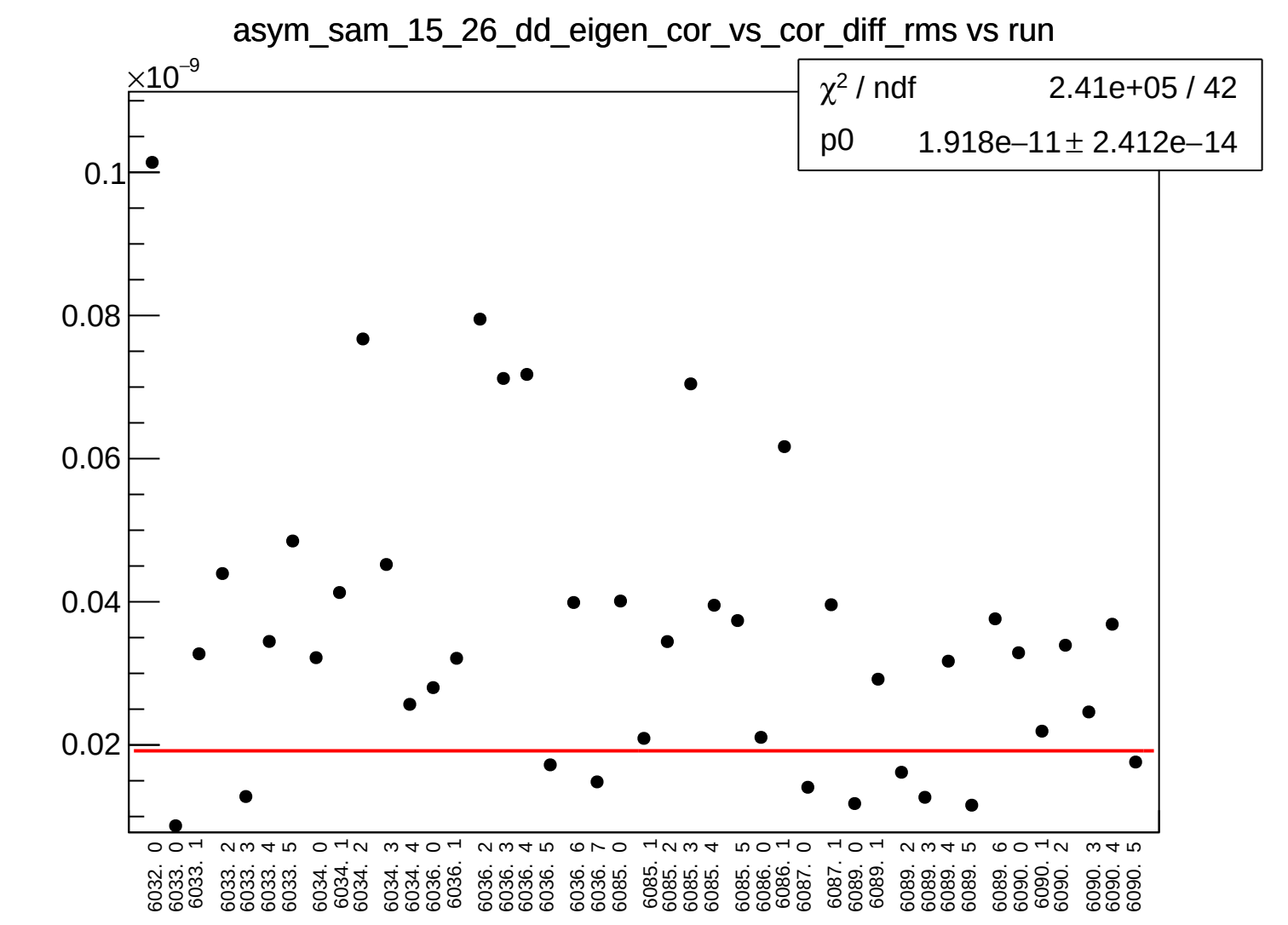


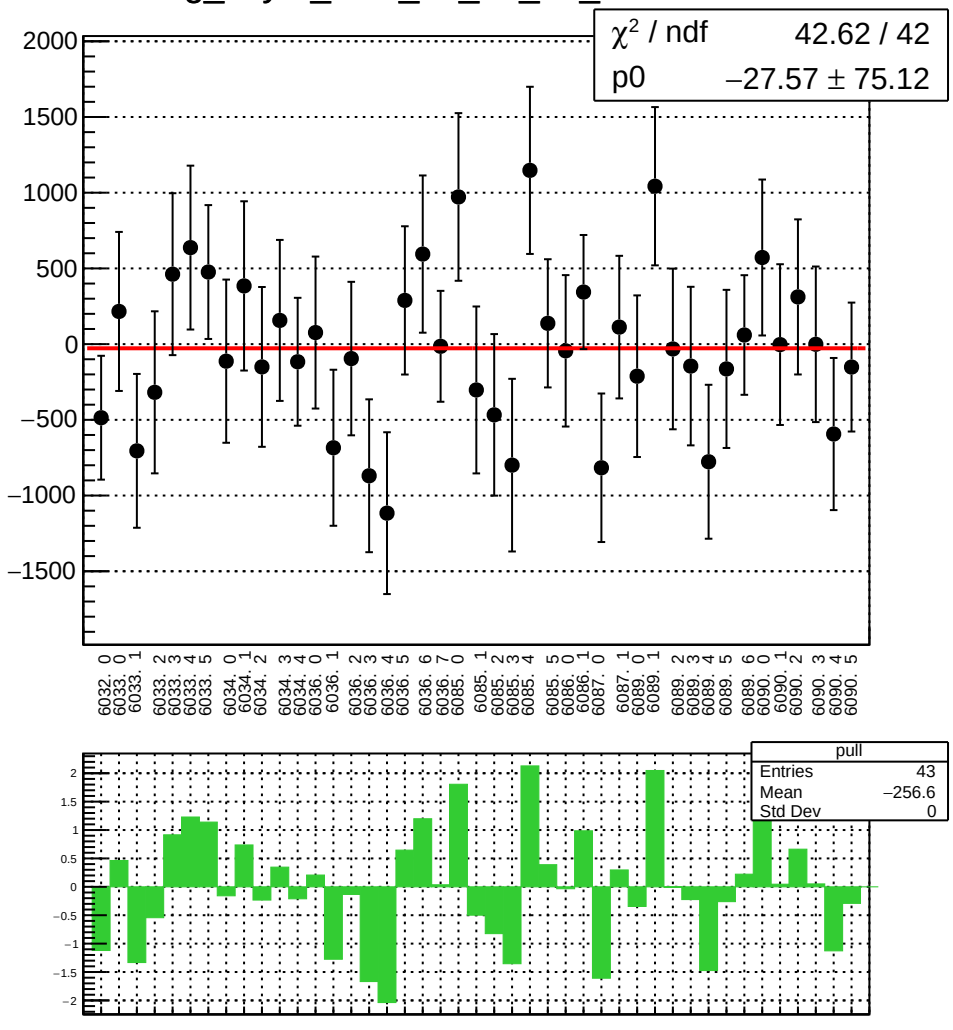


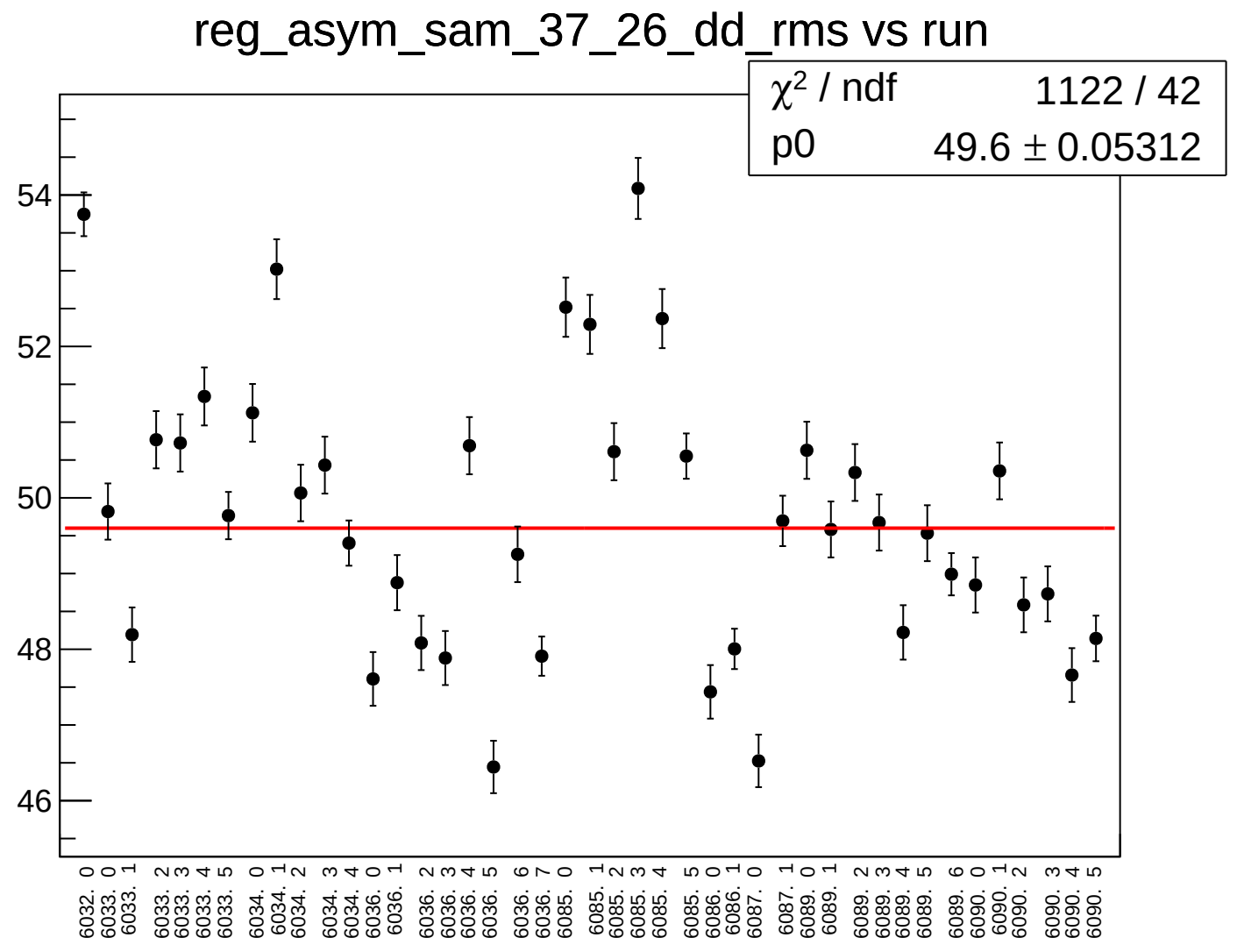

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 42
p0 26.14 ± 0.02839
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

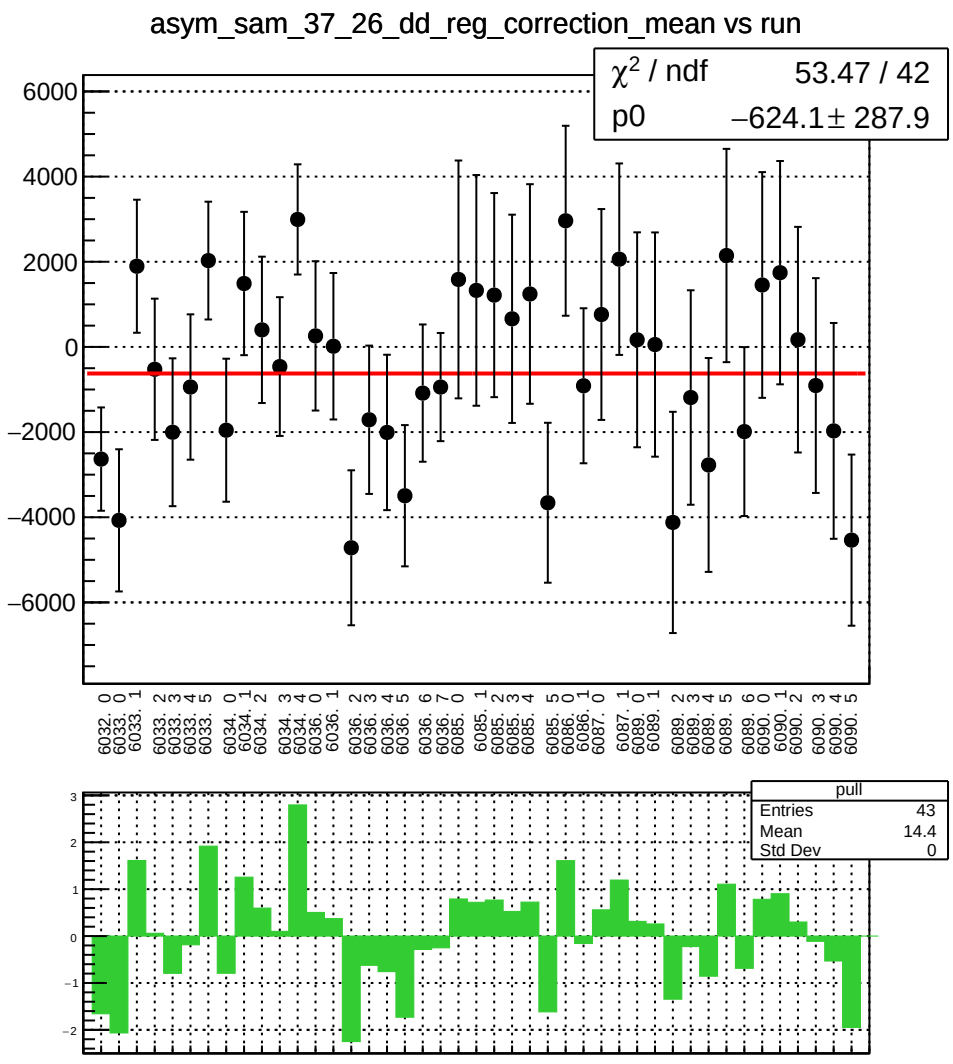

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.88 / 42
p0 −4.129e−14 ± 3.412e−14
pull
Entries 43
Mean 102.7
Std Dev 0

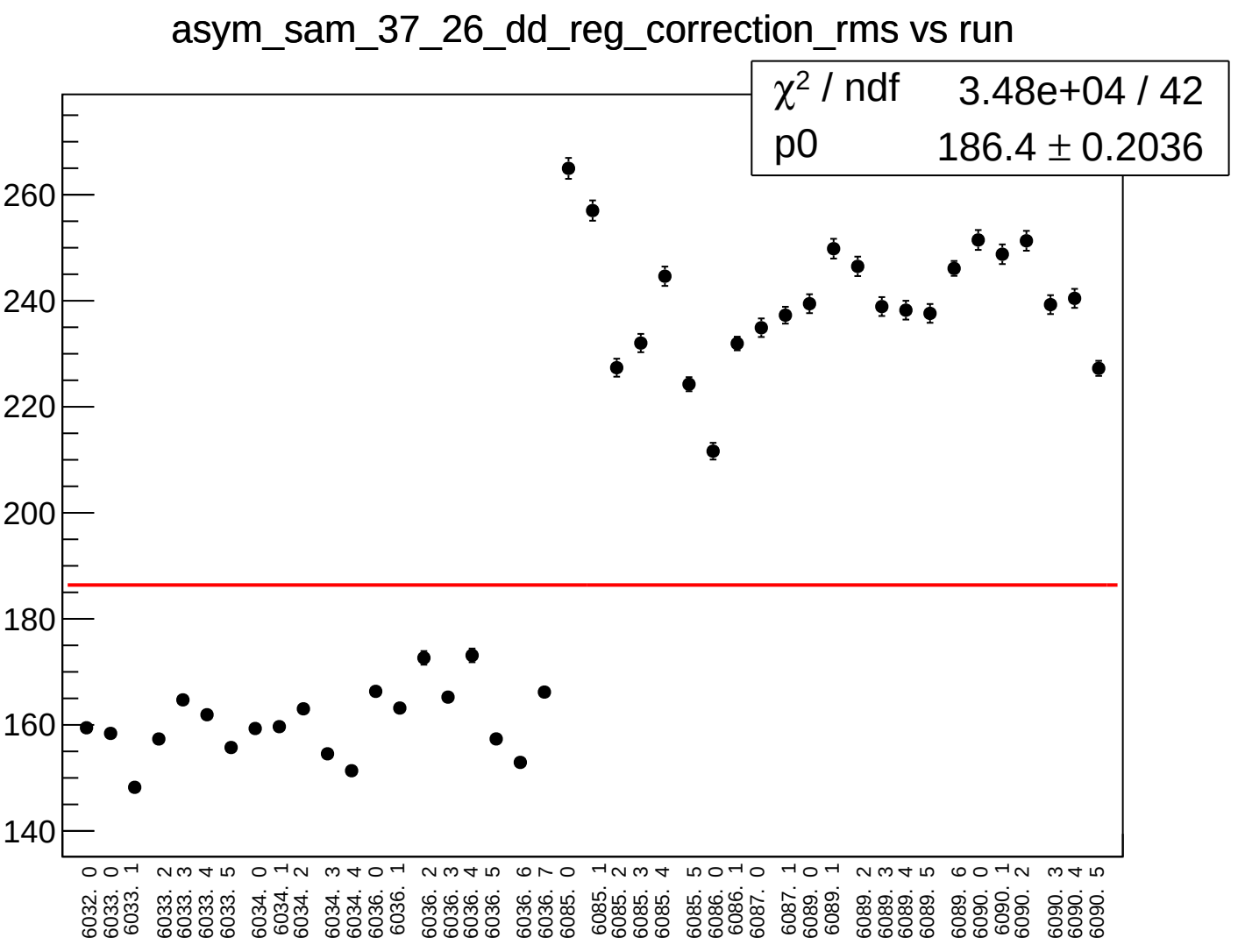

pull1D
Entries 43
Mean −0.05044
Std Dev 0.8862

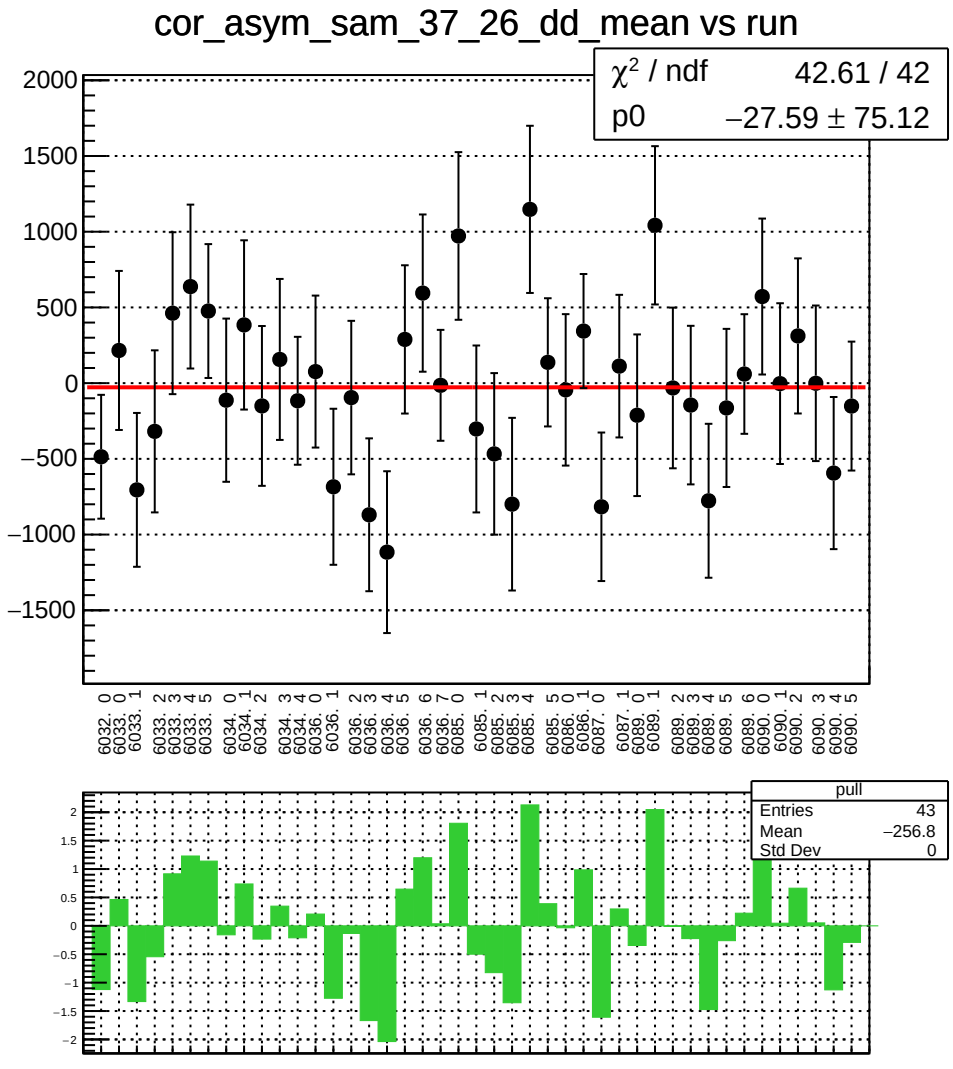

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.41e+05 / 42
p0 1.918e−11 ± 2.412e−14
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

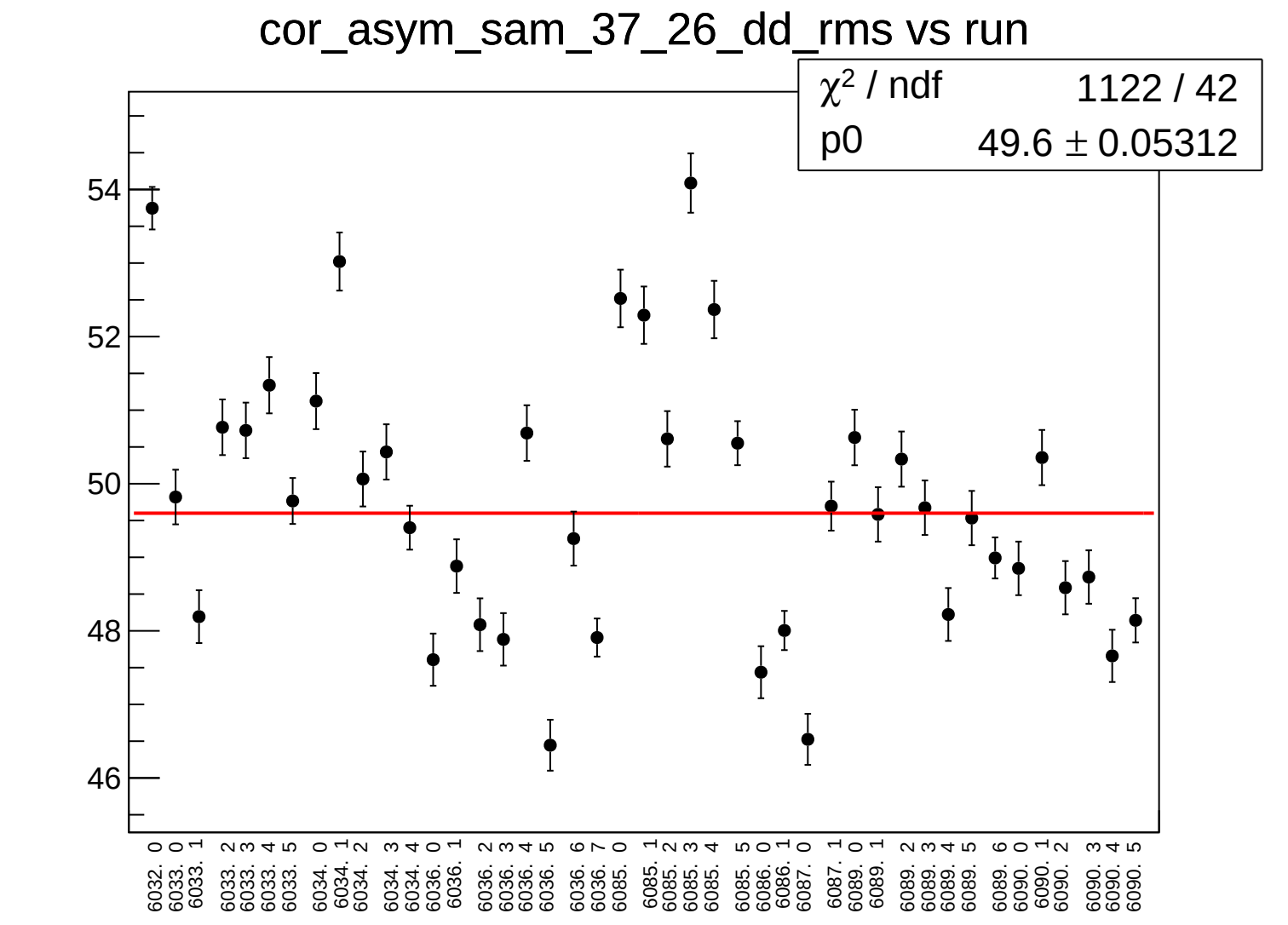

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 42.62 / 42
p0 −27.57 ± 75.12
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −256.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001023
Std Dev 0.9955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

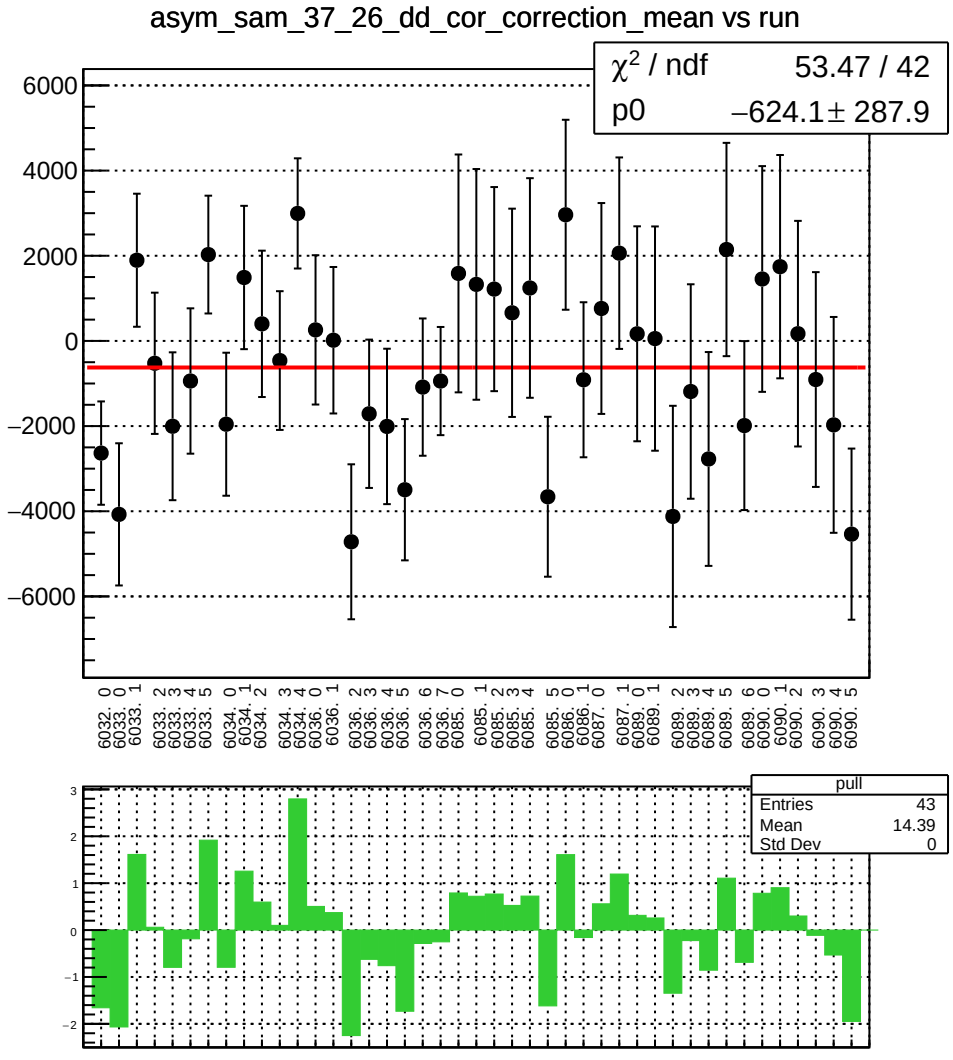

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1122 / 42
p0 49.6 ± 0.05312
54
52
50
48
46
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

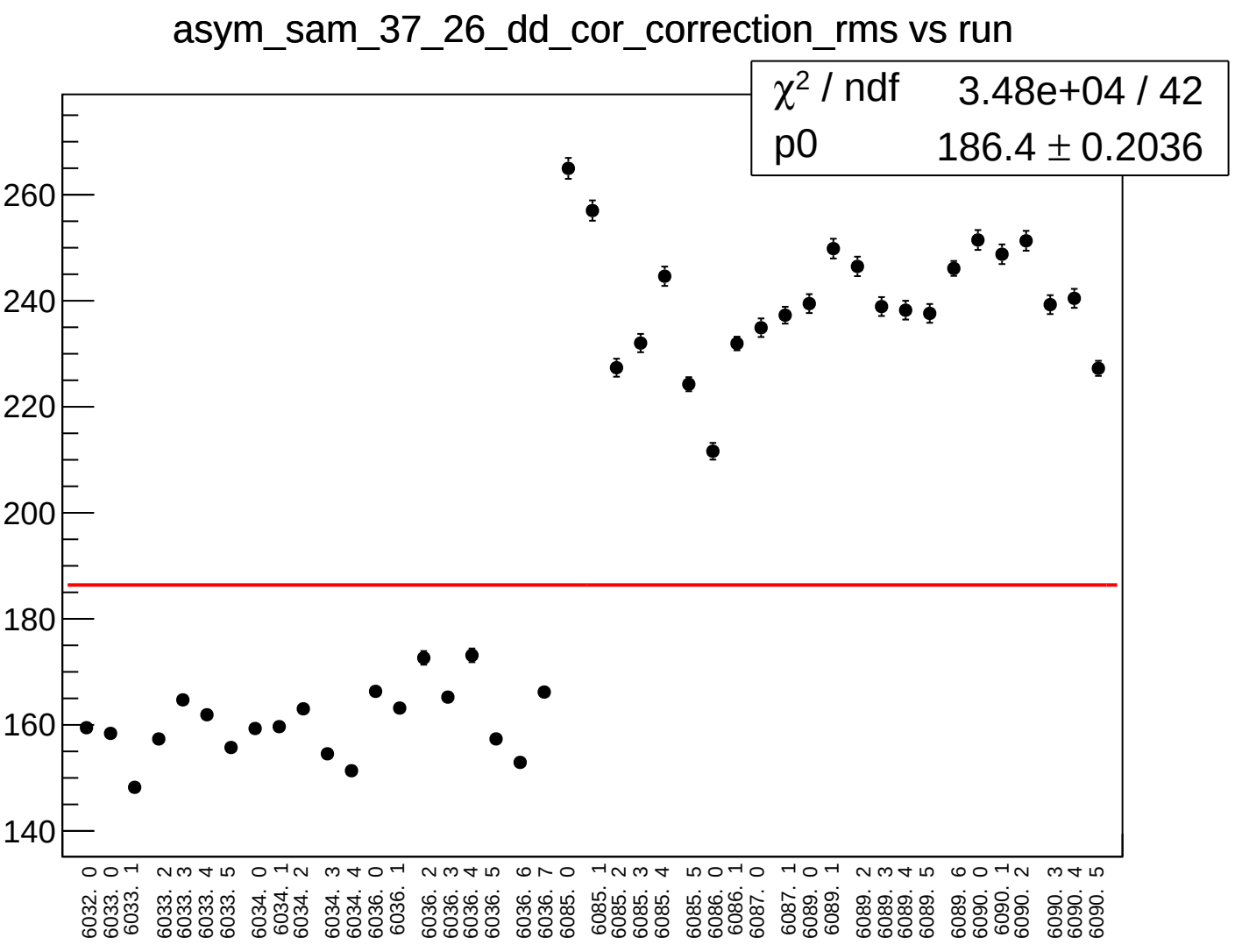

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 53.47 / 42
p0 −624.1± 287.9
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02086
Std Dev 1.115
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

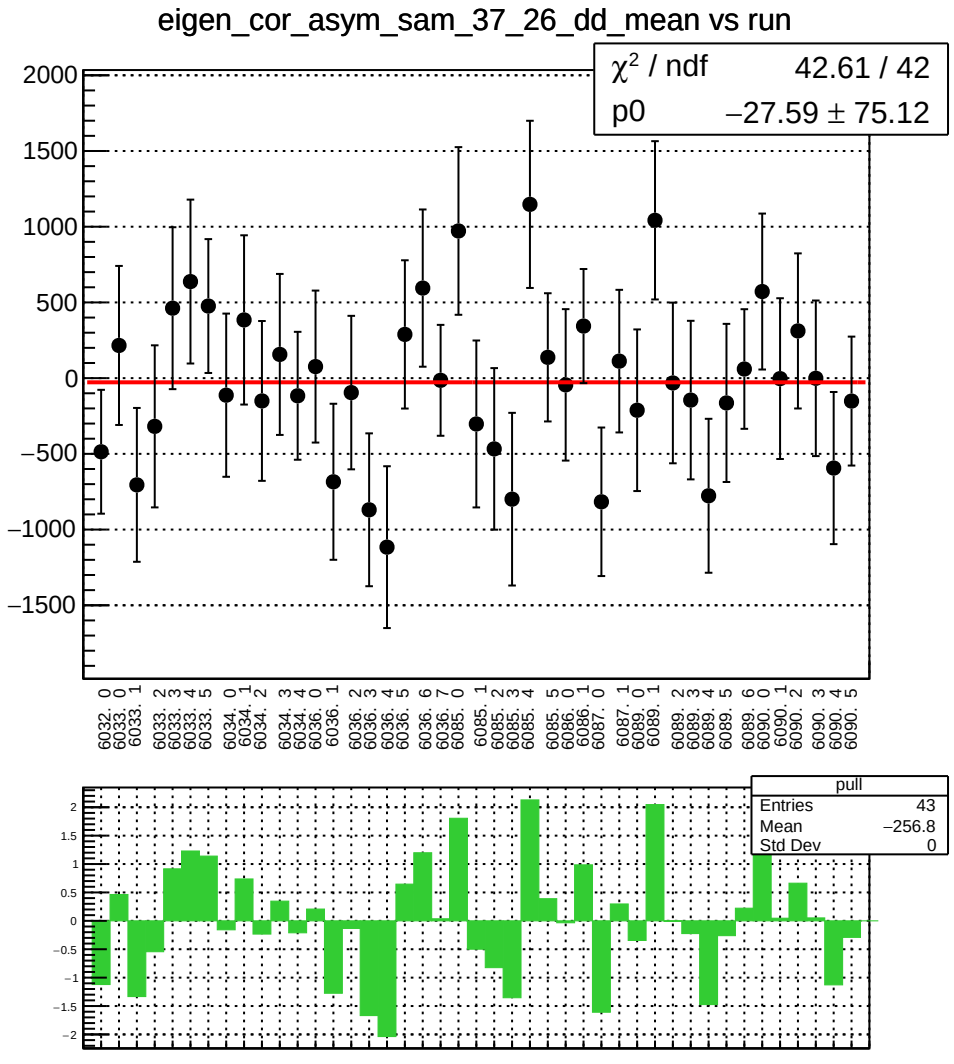

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 3.48e+04 / 42
p0 186.4 ± 0.2036
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

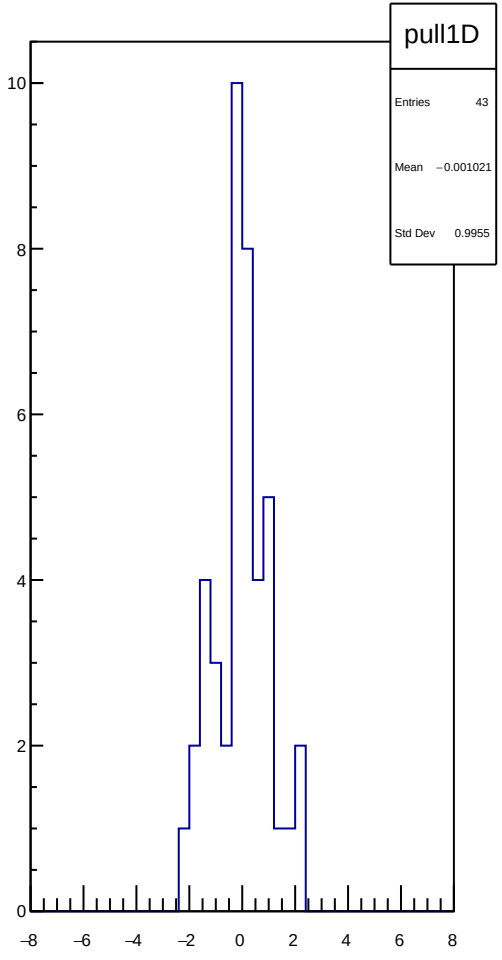

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 42.61 / 42
p0 −27.59 ± 75.12
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −256.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001021
Std Dev 0.9955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

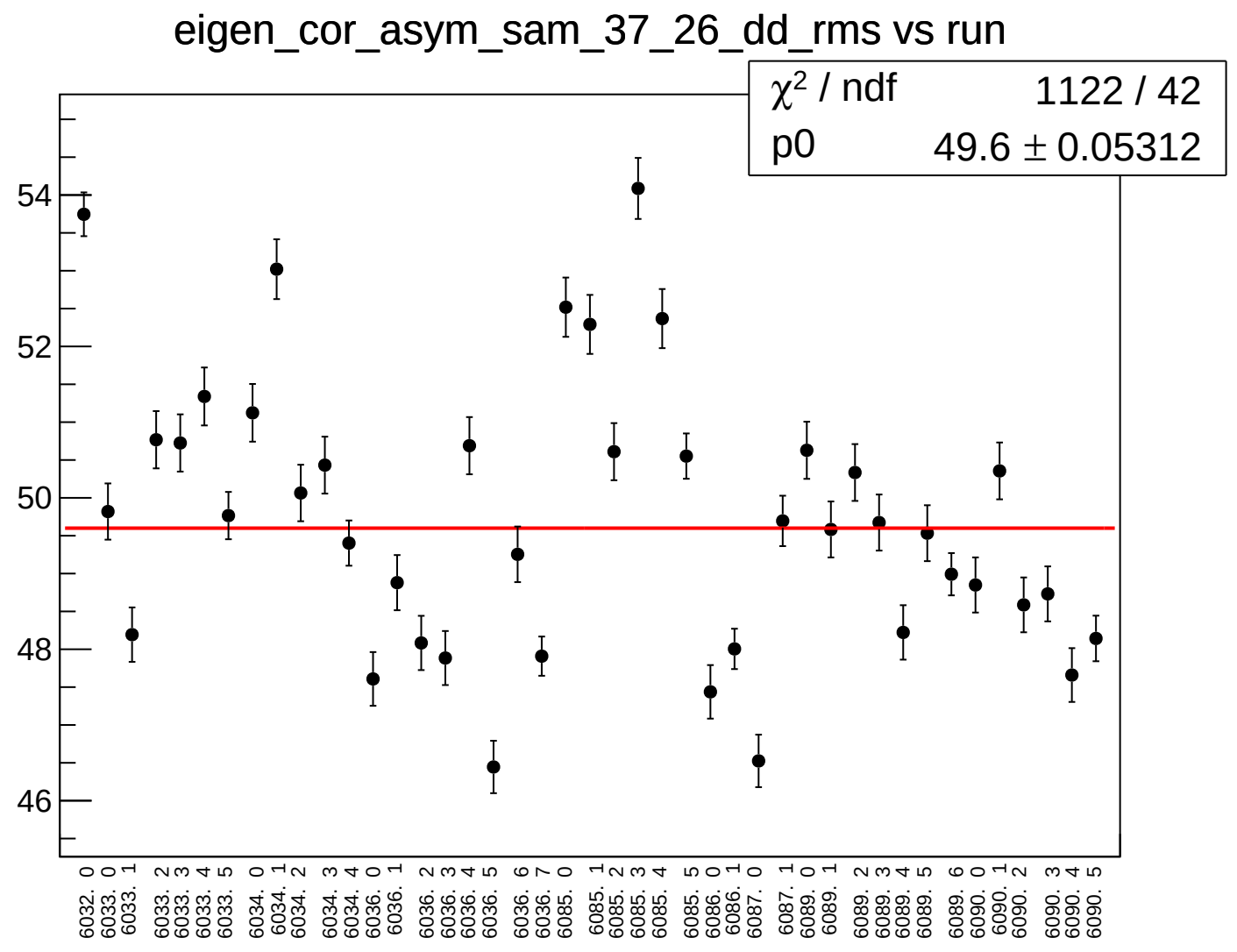

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1122 / 42
p0 49.6 ± 0.05312
54
52
50
48
46
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

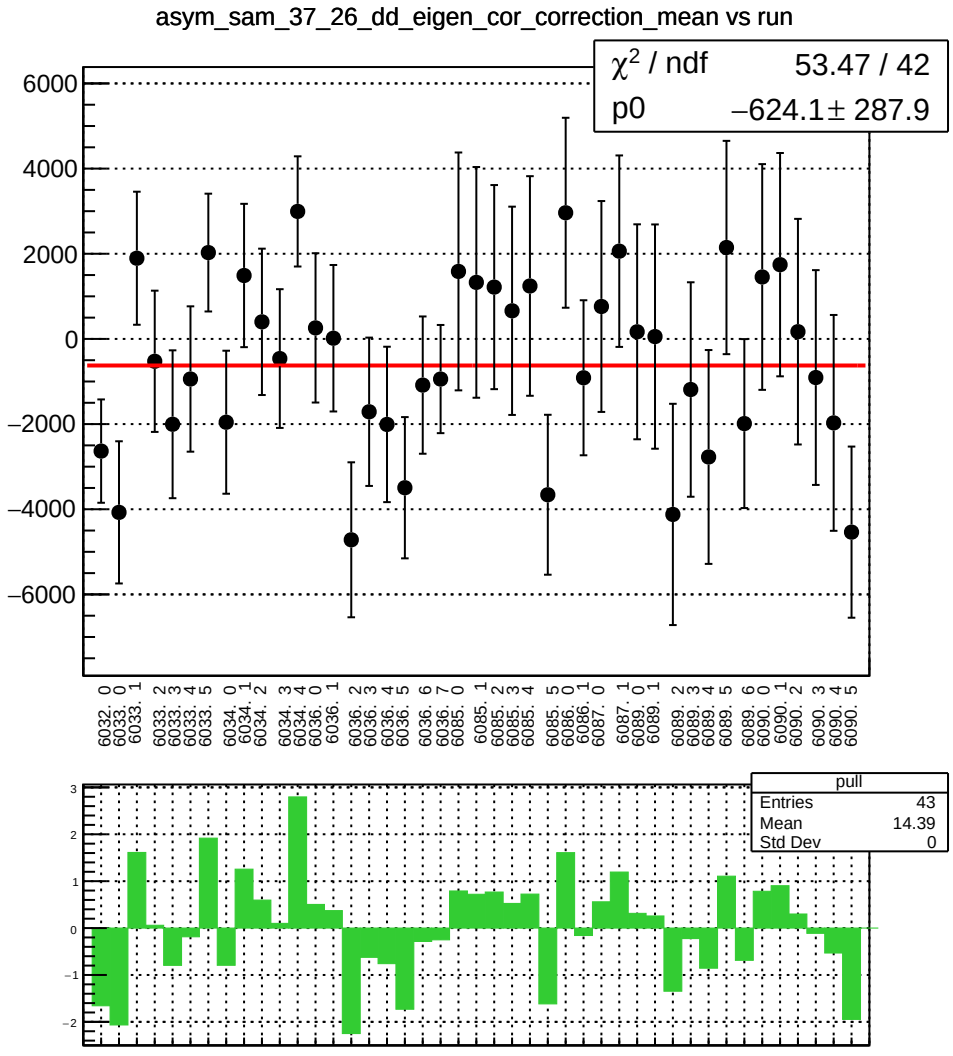

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 53.47 / 42
p0 −624.1± 287.9
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.39
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02085
Std Dev 1.115
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

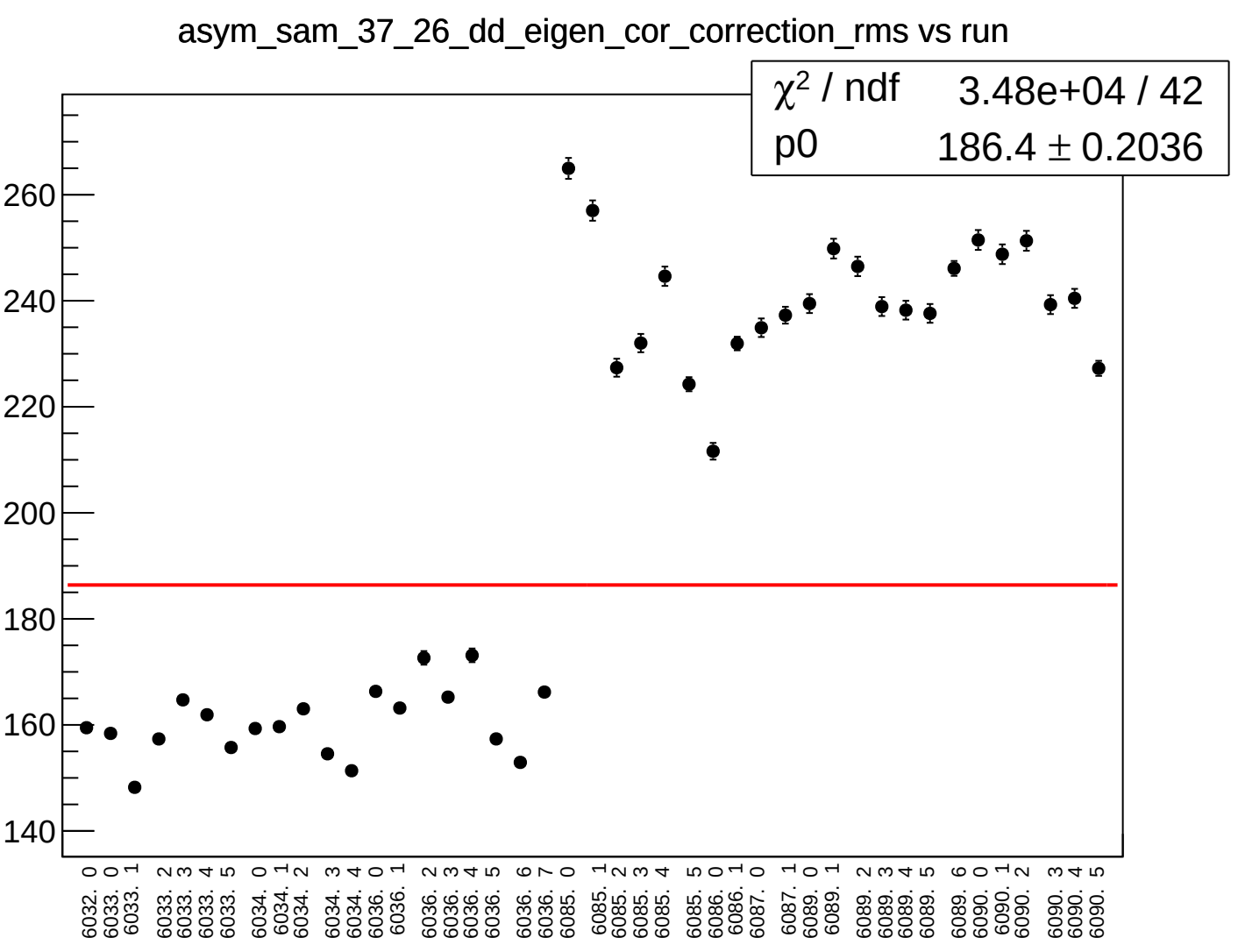

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 3.48e+04 / 42
p0 186.4 ± 0.2036
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

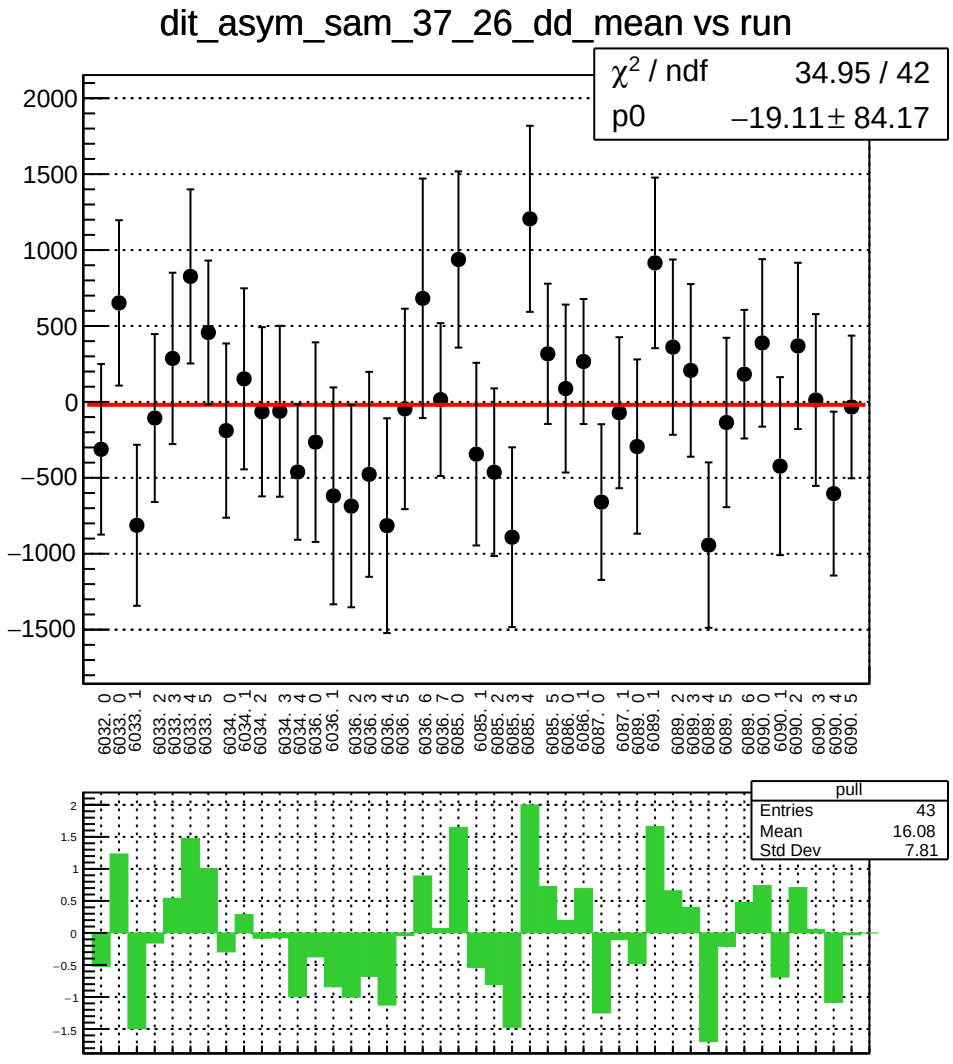

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 42.61 / 42
p0 −27.59 ± 75.12
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −256.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

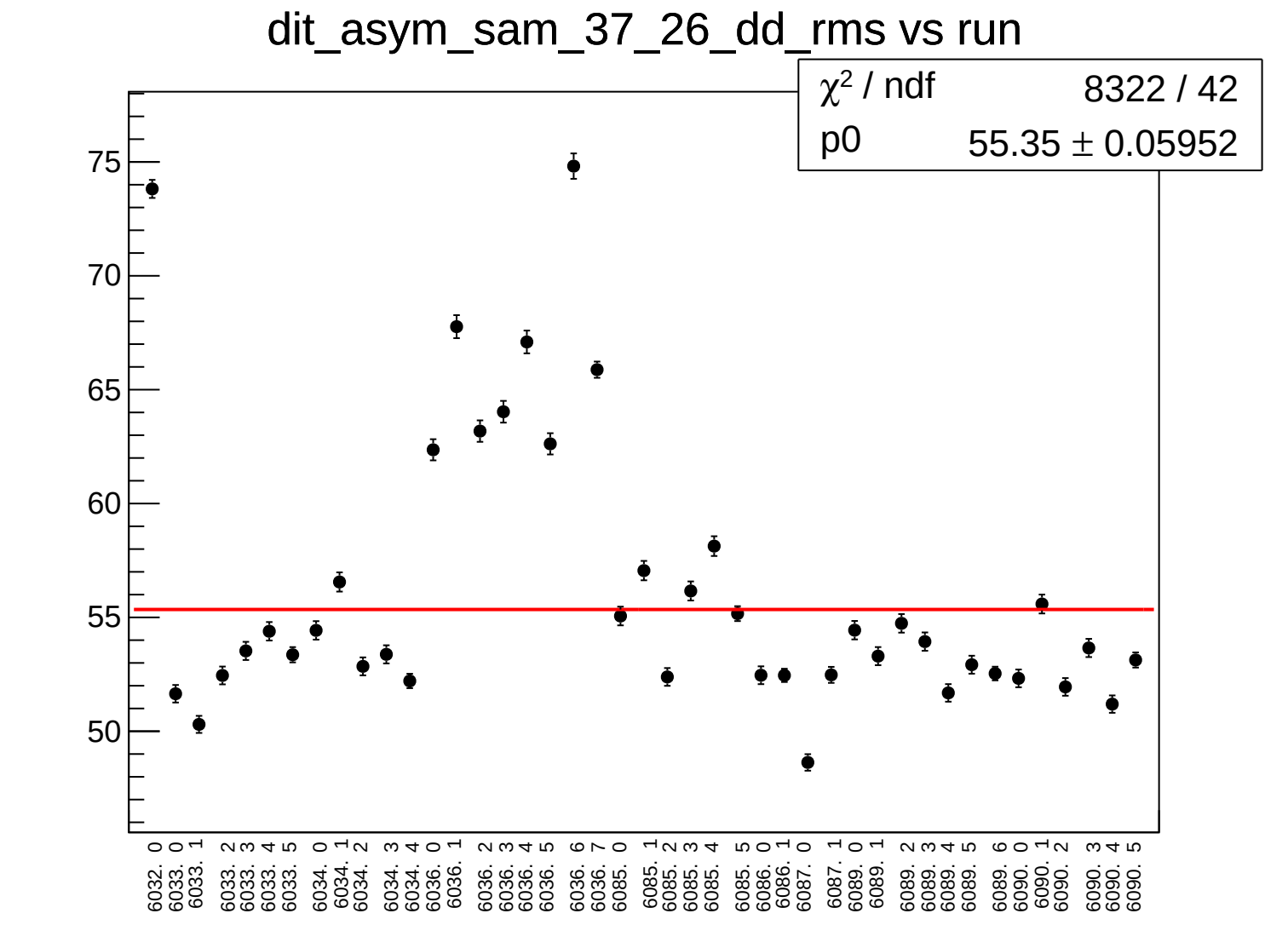

pull1D
Entries 43
Mean −0.001021
Std Dev 0.9955
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

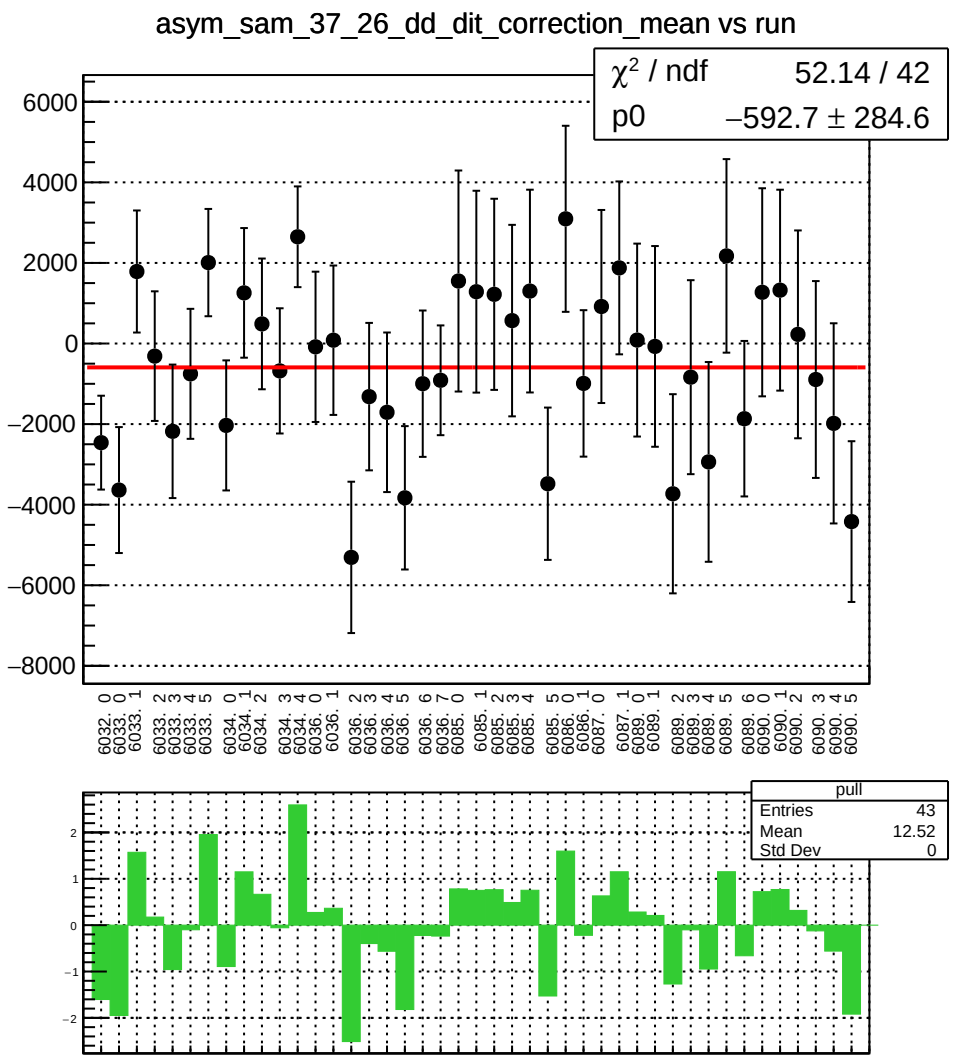

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1122 / 42
p0 49.6 ± 0.05312
54
52
50
48
46
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

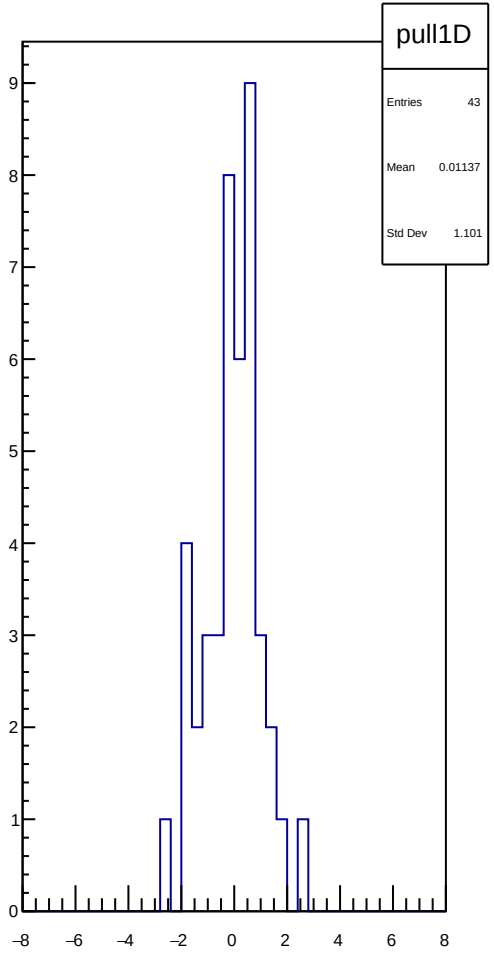

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 53.47 / 42
p0 −624.1± 287.9
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.39
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02085
Std Dev 1.115
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

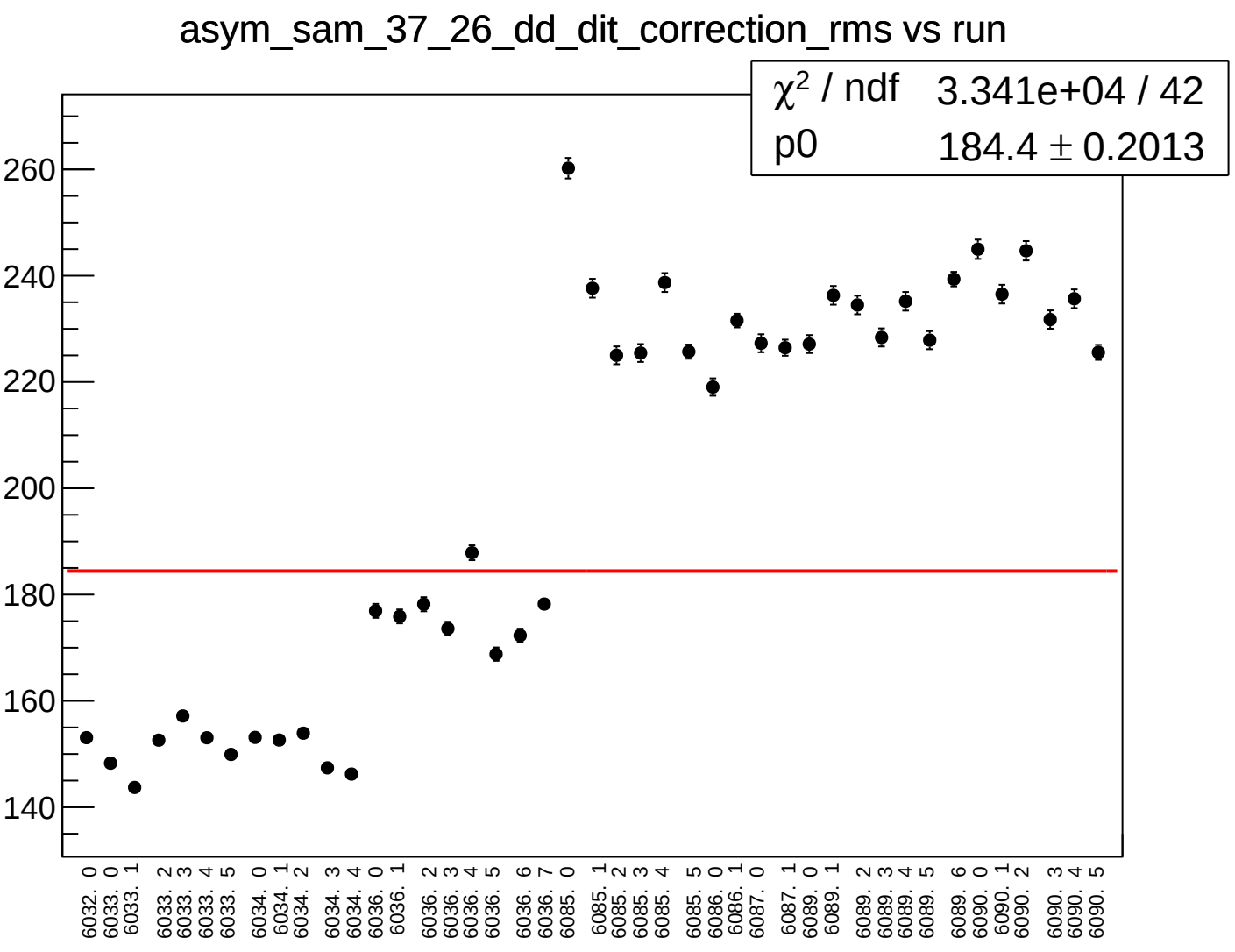

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.48e+04 / 42
p0 186.4 ± 0.2036
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

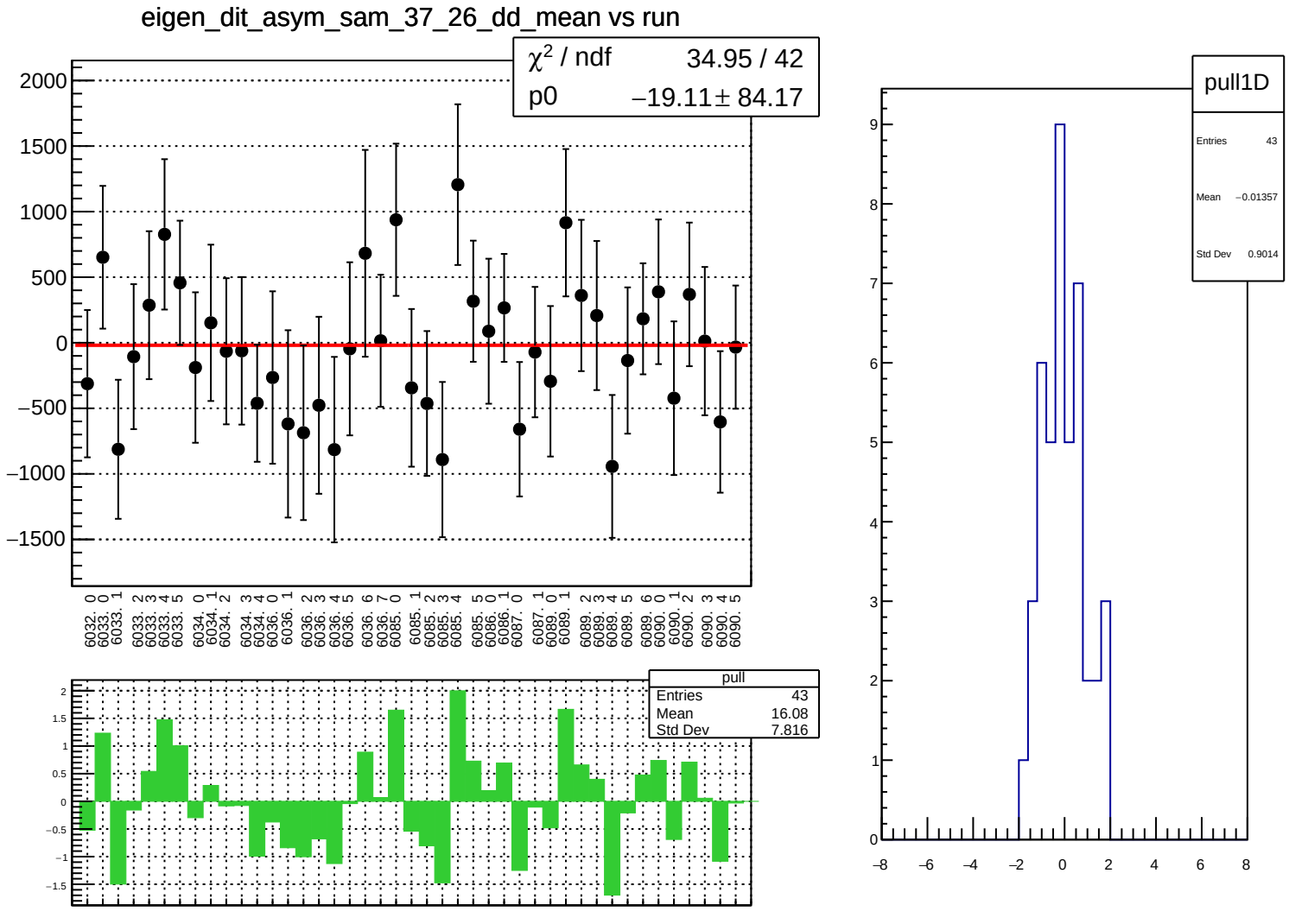

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 34.95 / 42
p0 −19.11 ± 84.17
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.08
Std Dev 7.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01357
Std Dev 0.9014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

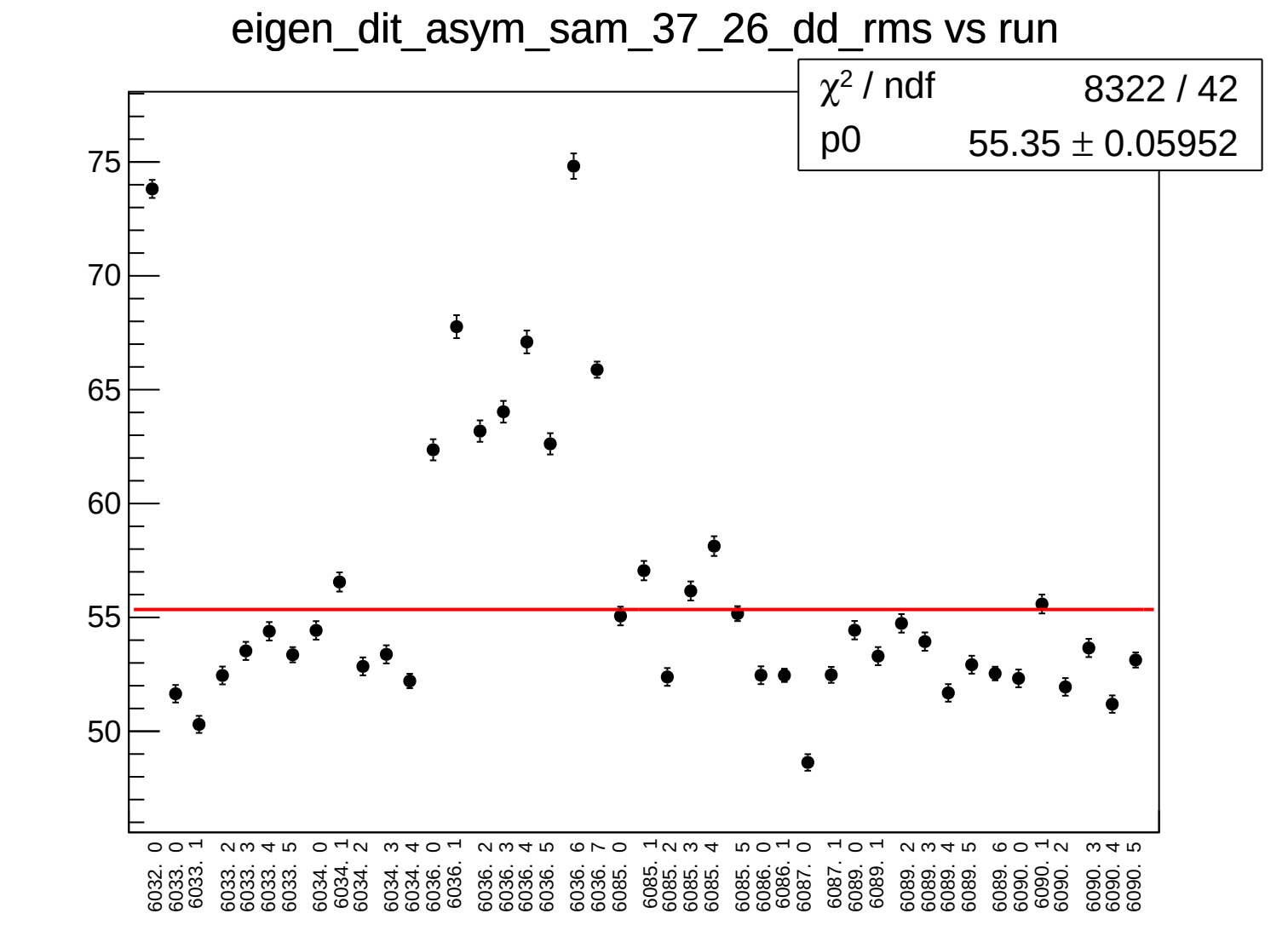

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8322 / 42
p0 55.35 ± 0.05952
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

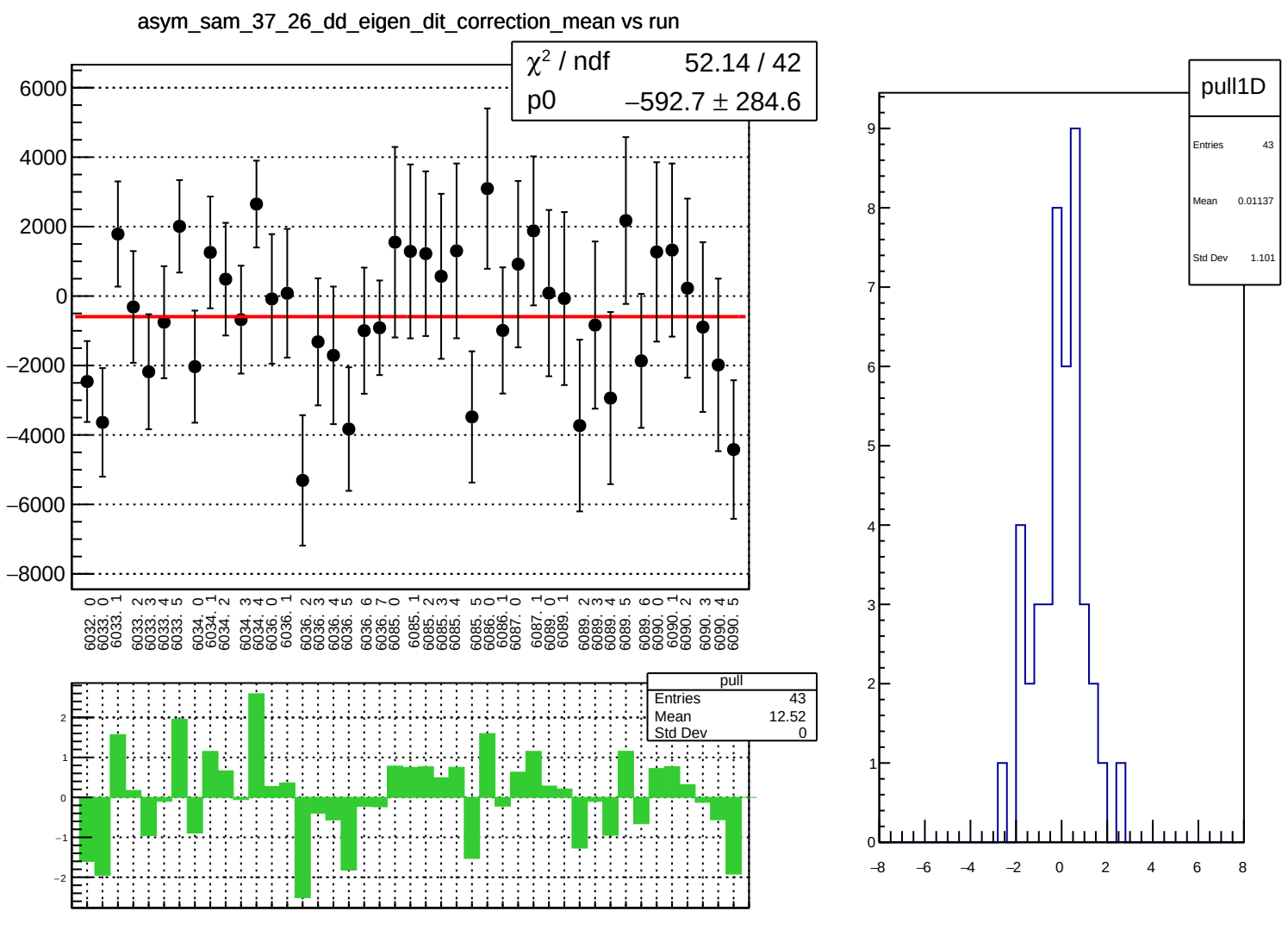

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 52.14 / 42
p0 −592.7 ± 284.6
pull
Entries 43
Mean 12.52
Std Dev 0

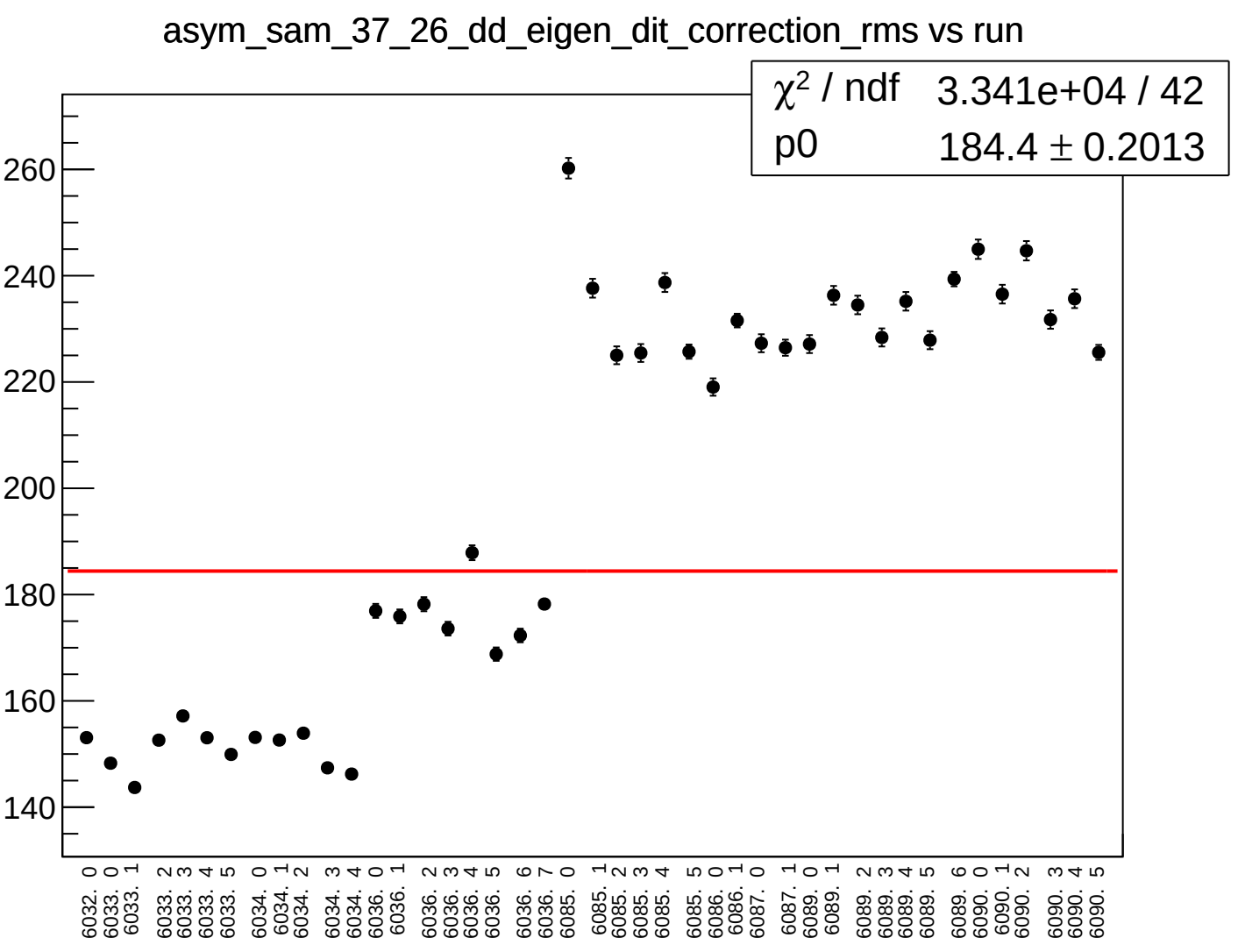

pull1D
Entries 43
Mean 0.01137
Std Dev 1.101

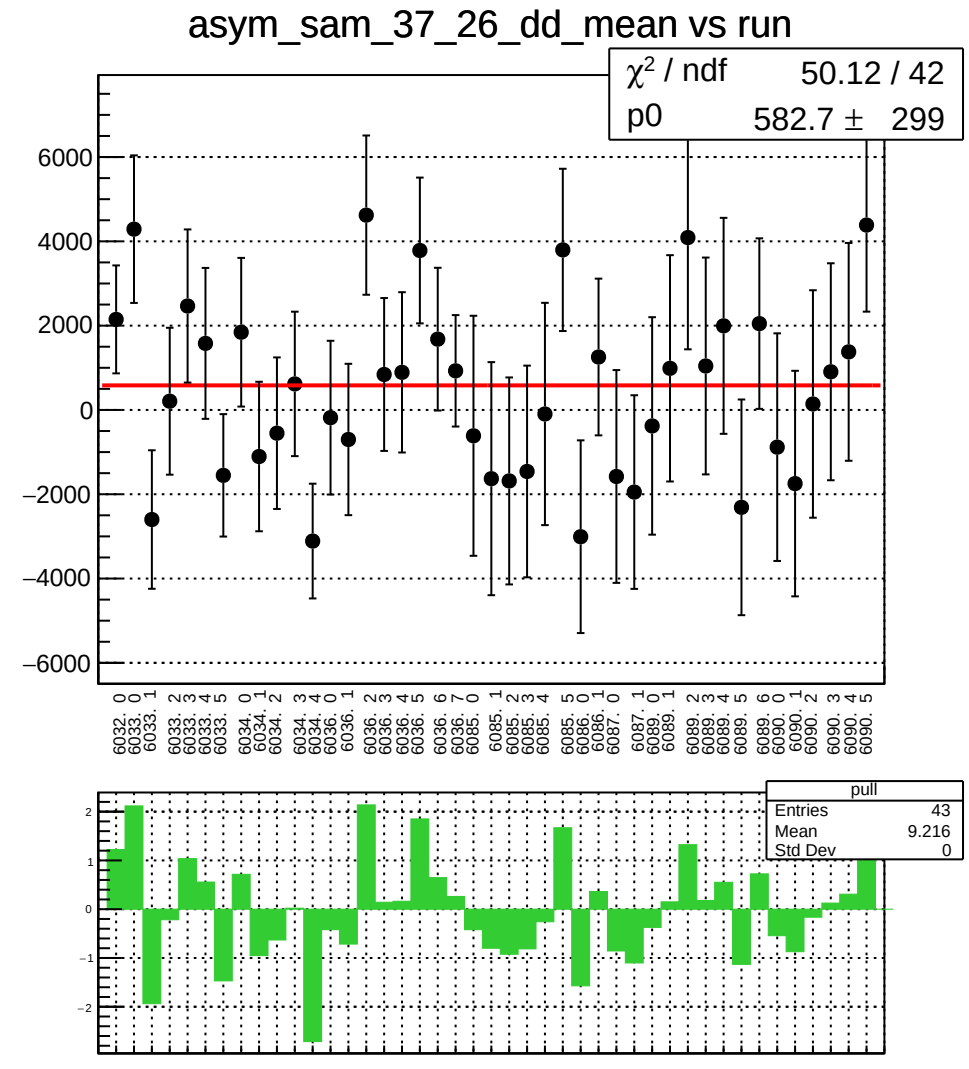

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3.341e+04 / 42
p0 184.4 ± 0.2013
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

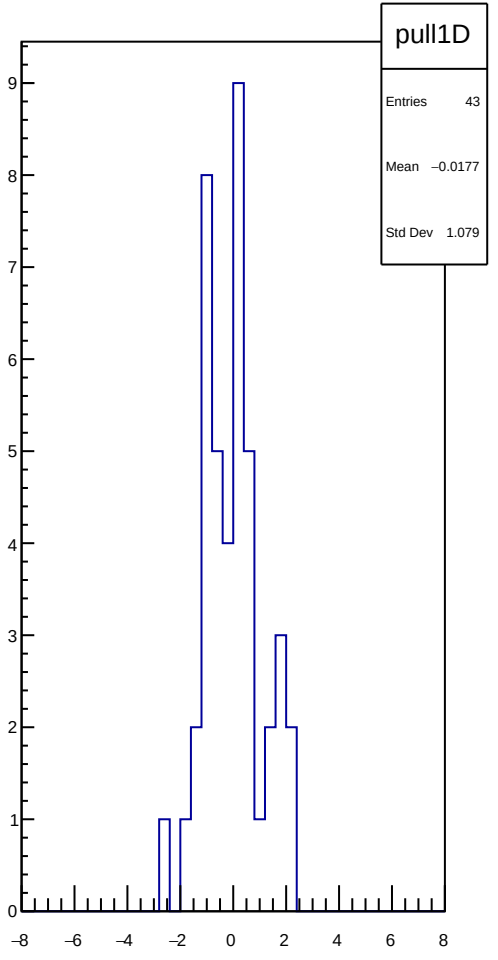

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 34.95 / 42
p0 −19.11 ± 84.17
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.08
Std Dev 7.816
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01357
Std Dev 0.9014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

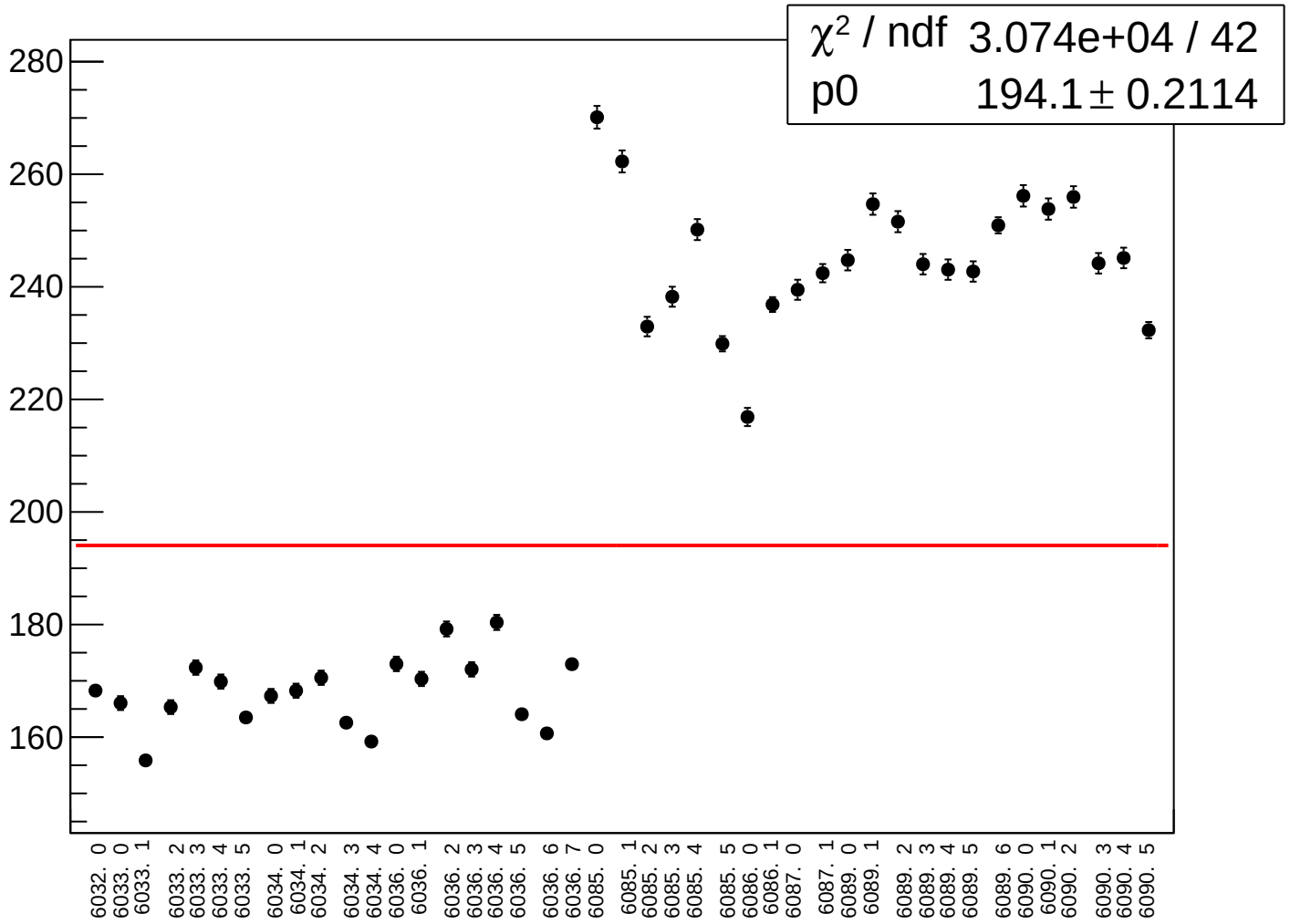

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8322 / 42
p0 55.35 ± 0.05952
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

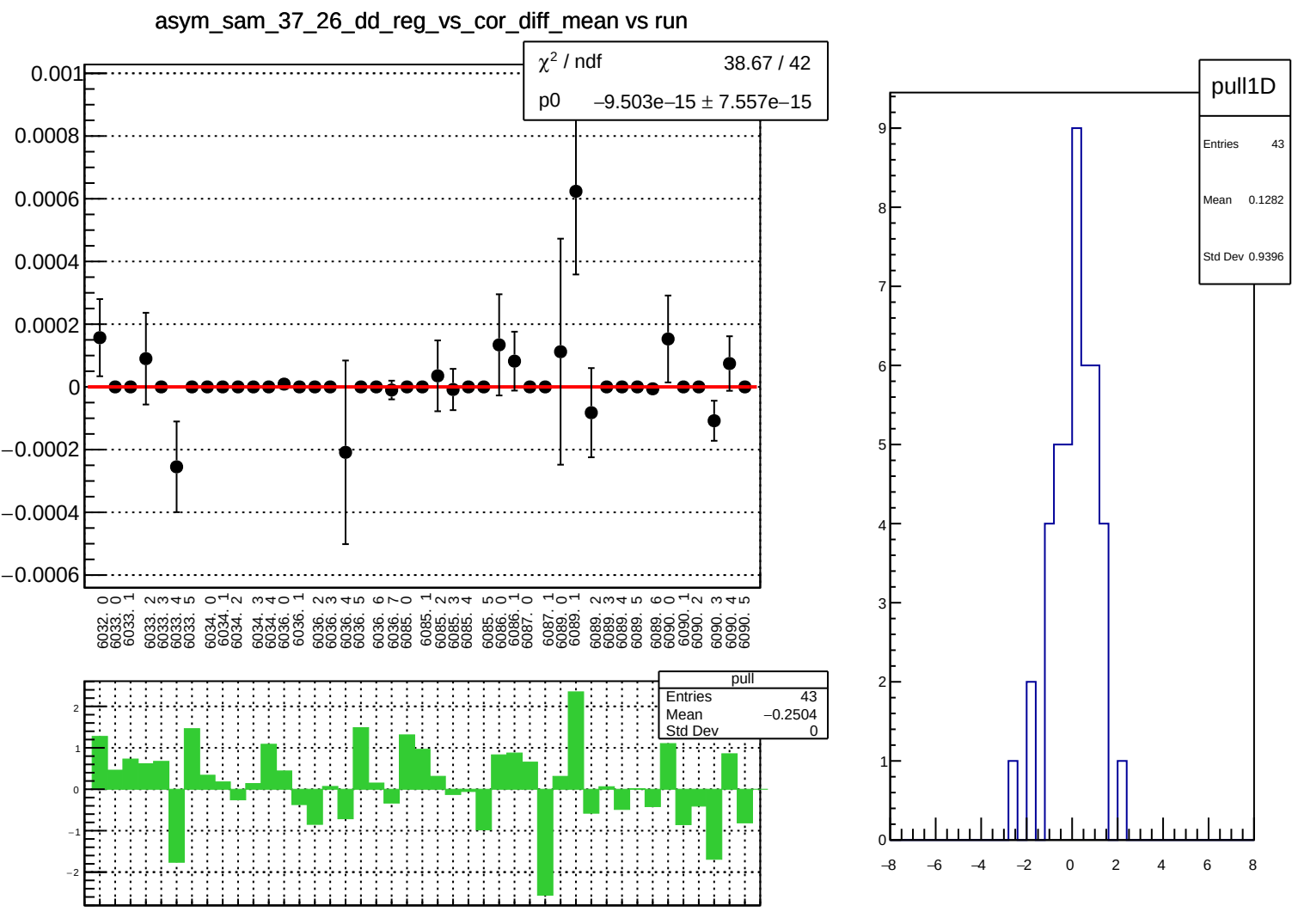

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.14 / 42
p0 −592.7 ± 284.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
6032. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01137
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

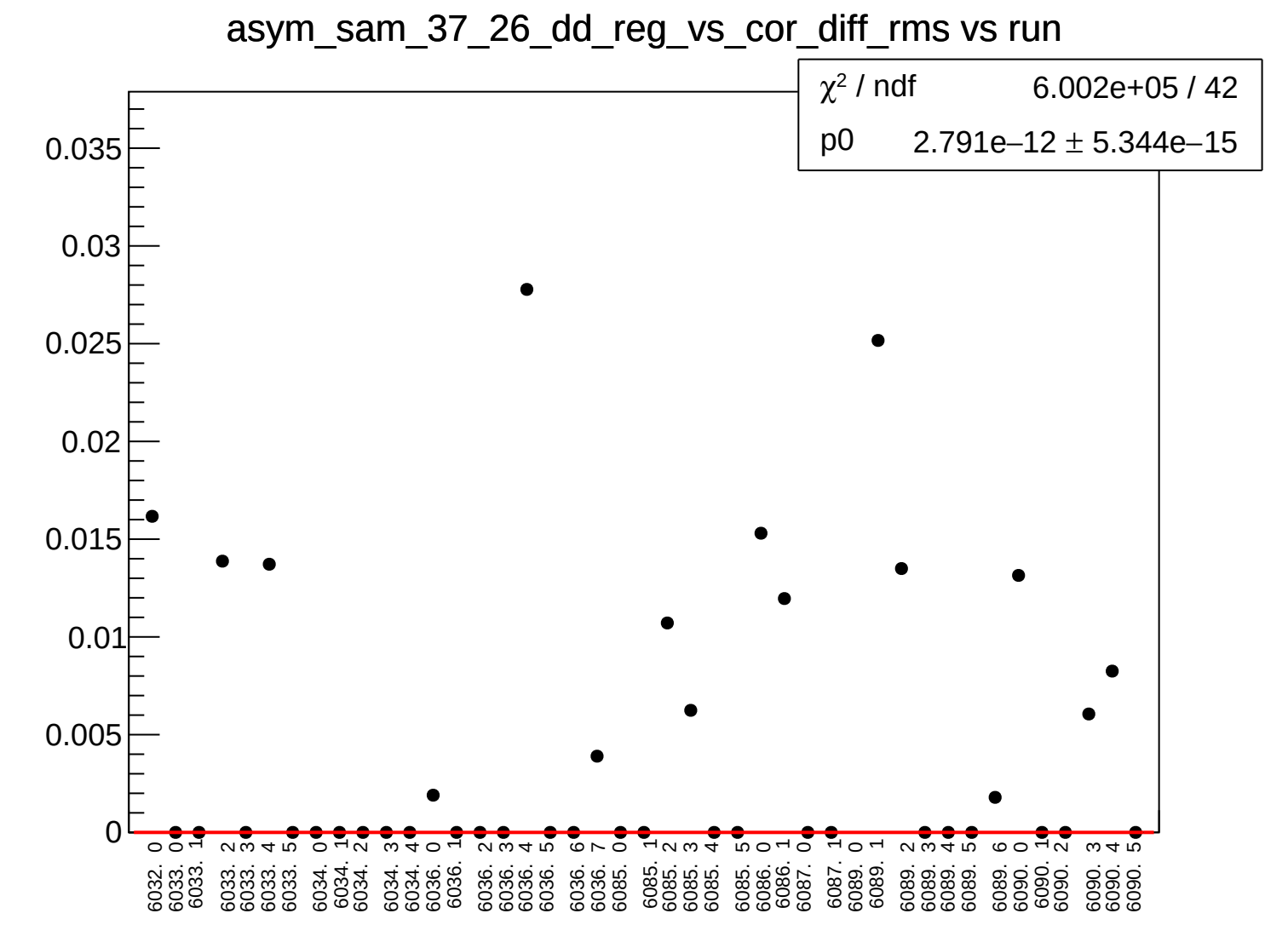

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.341e+04 / 42
p0 184.4 ± 0.2013
260
240
220
200
180
160
140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

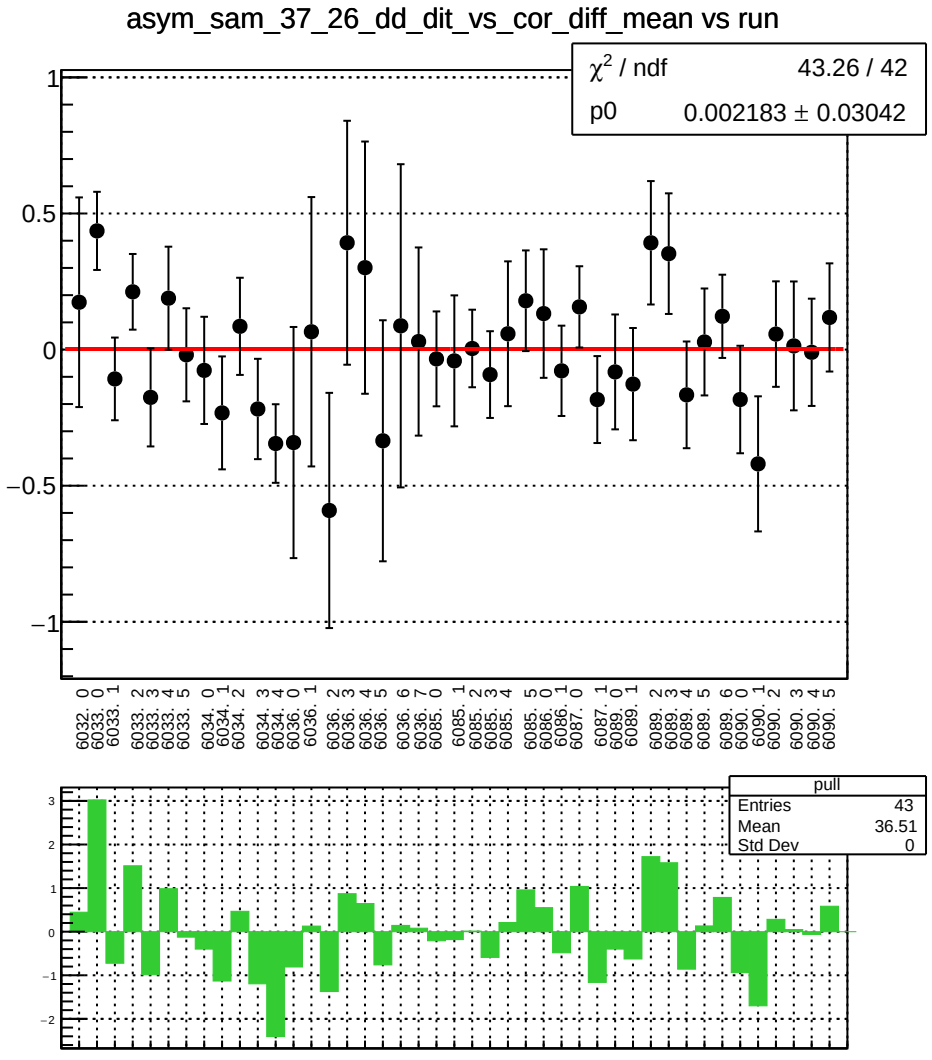

asym_sam_37_26_dd_mean vs run
χ² / ndf 50.12 / 42
p0 582.7 ± 299
6000
4000
2000
0
−2000
−4000
−6000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.216
Std Dev 0
2
1
0
−1
−2

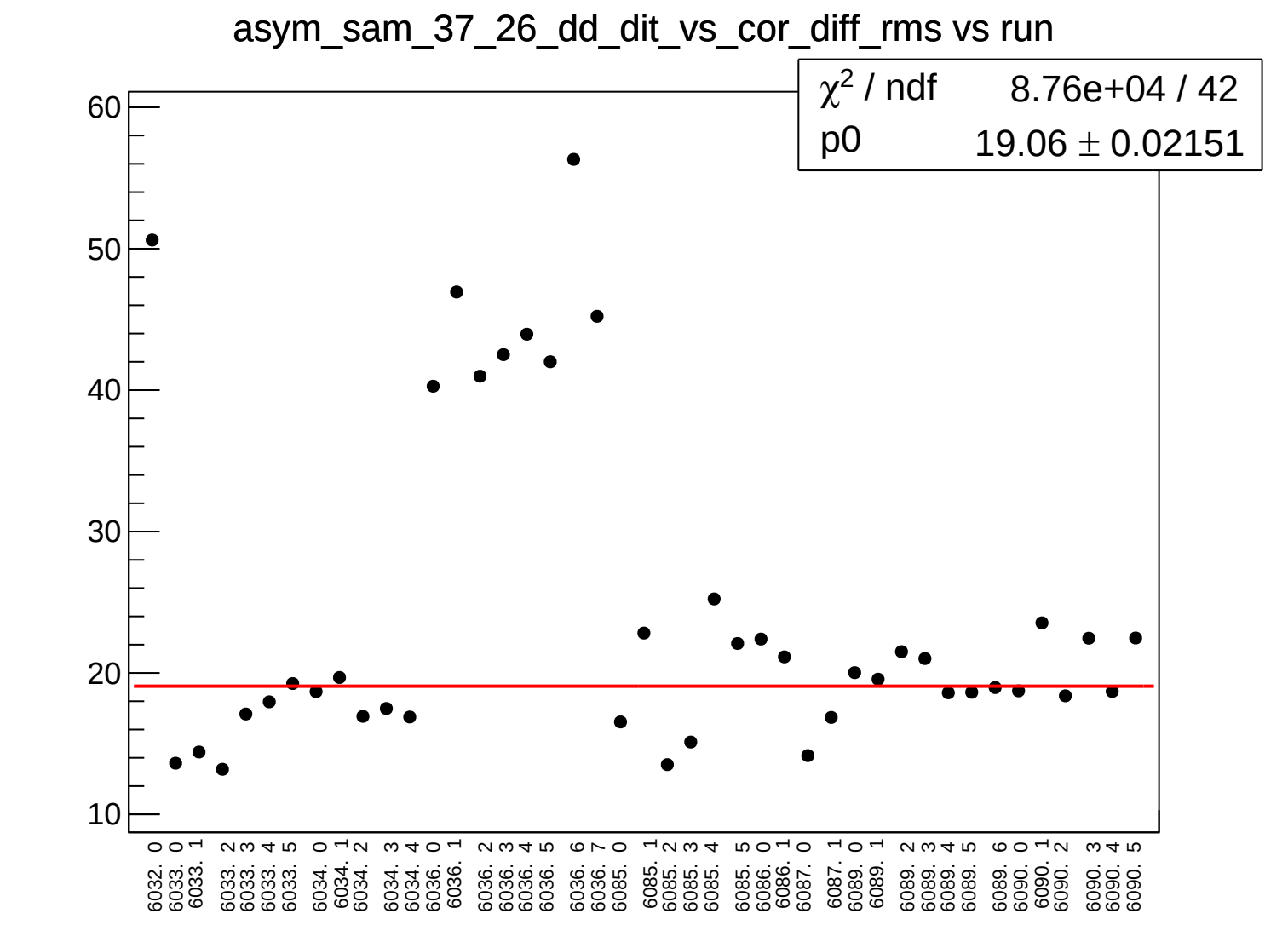

pull1D
Entries 43
Mean −0.0177
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

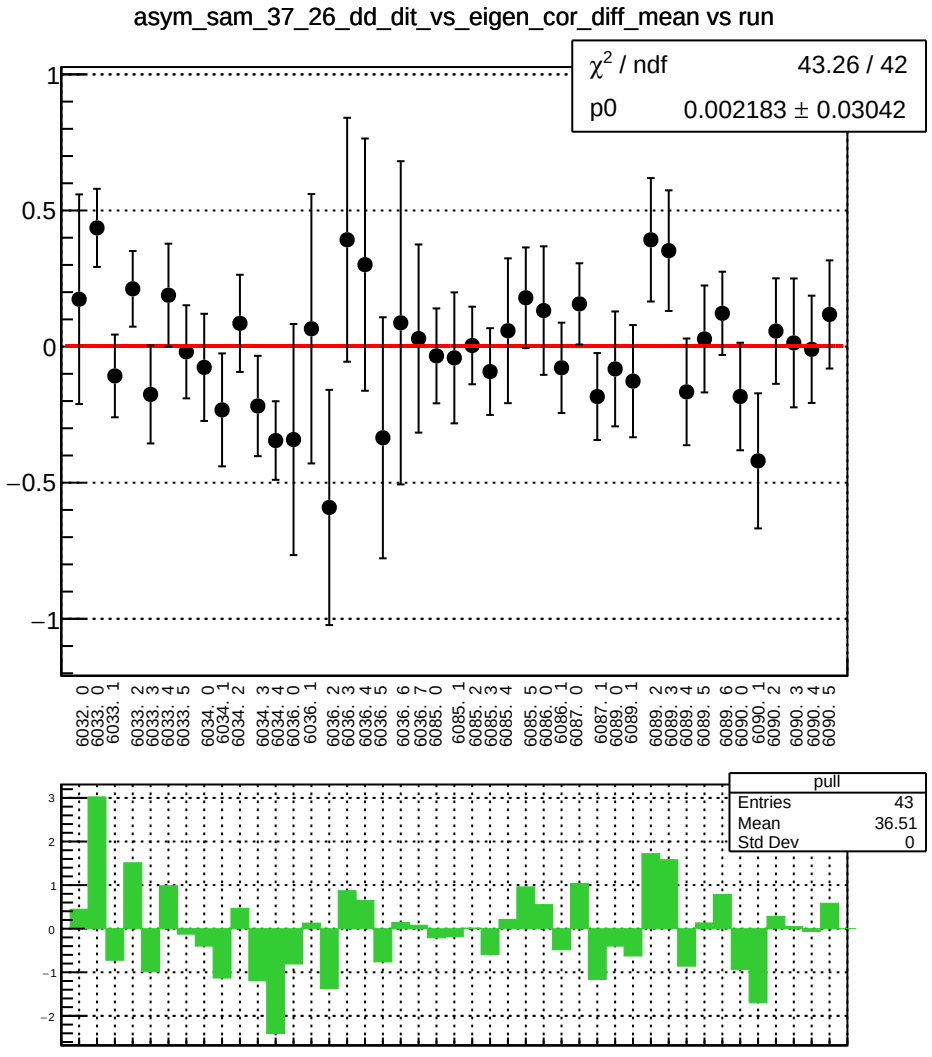

asym_sam_37_26_dd_rms vs run
χ² / ndf 3.074e+04 / 42
p0 194.1 ± 0.2114
280
260
240
220
200
180
160
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

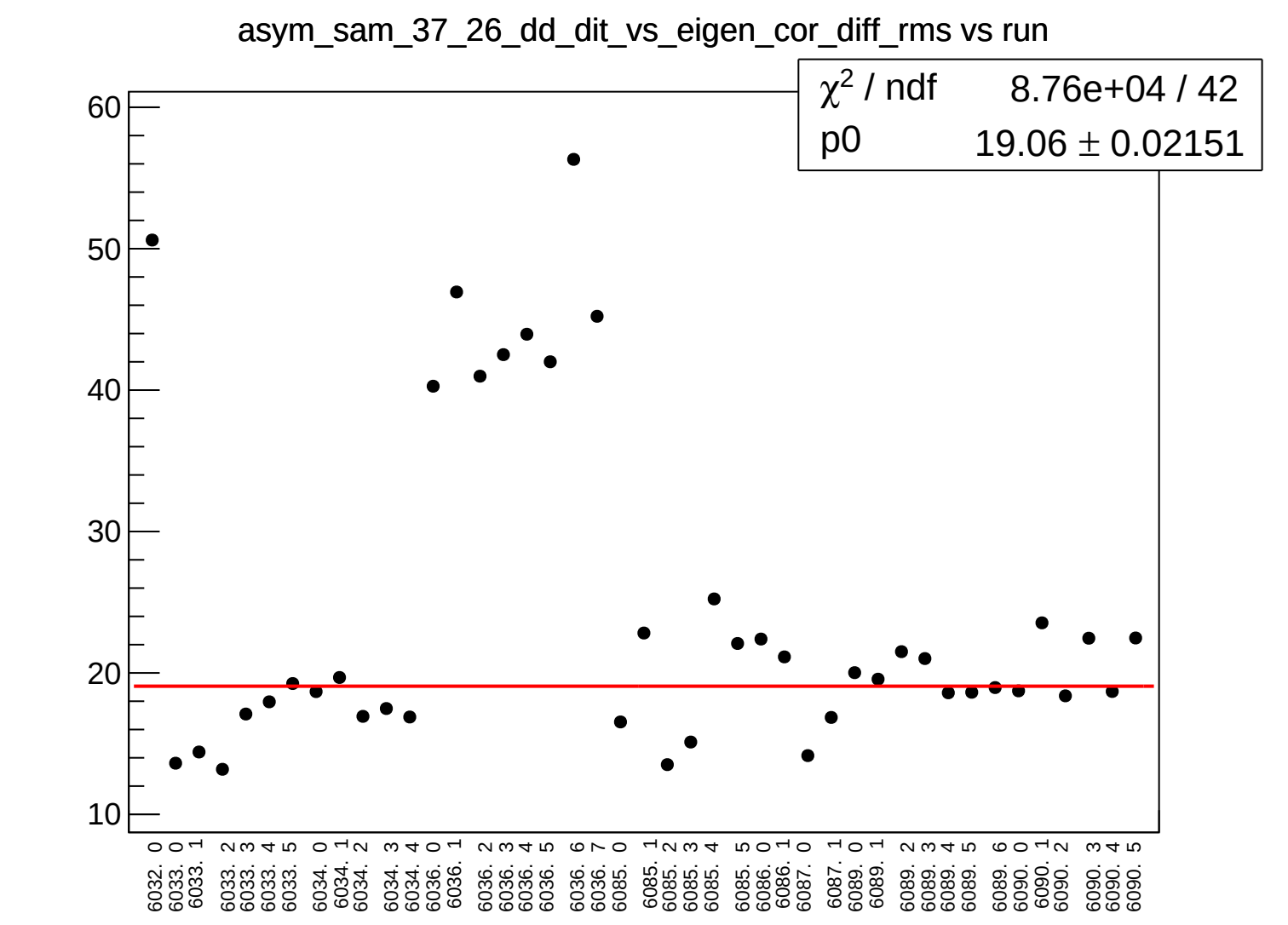

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.67 / 42
p0 −9.503e−15 ± 7.557e−15
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.2504
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1282
Std Dev 0.9396
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

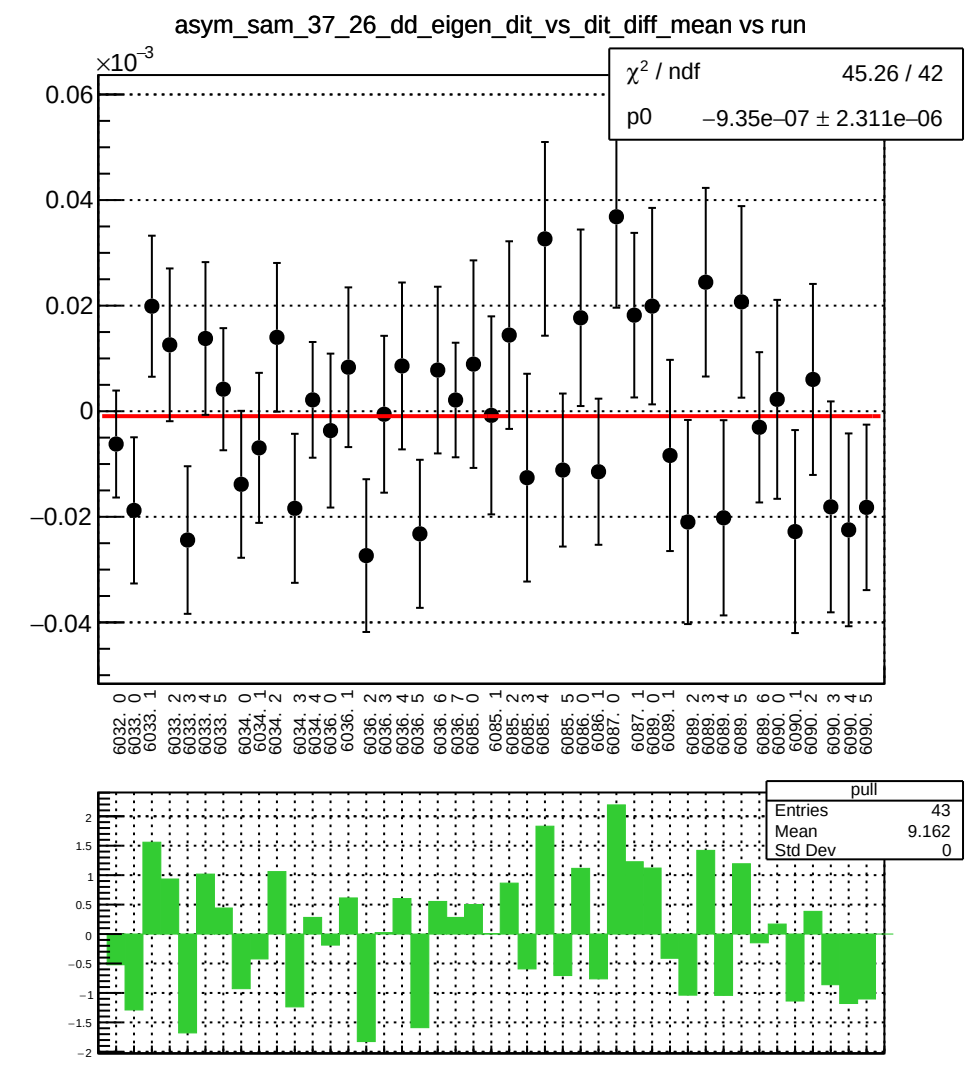

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.002e+05 / 42
p0 2.791e−12 ± 5.344e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

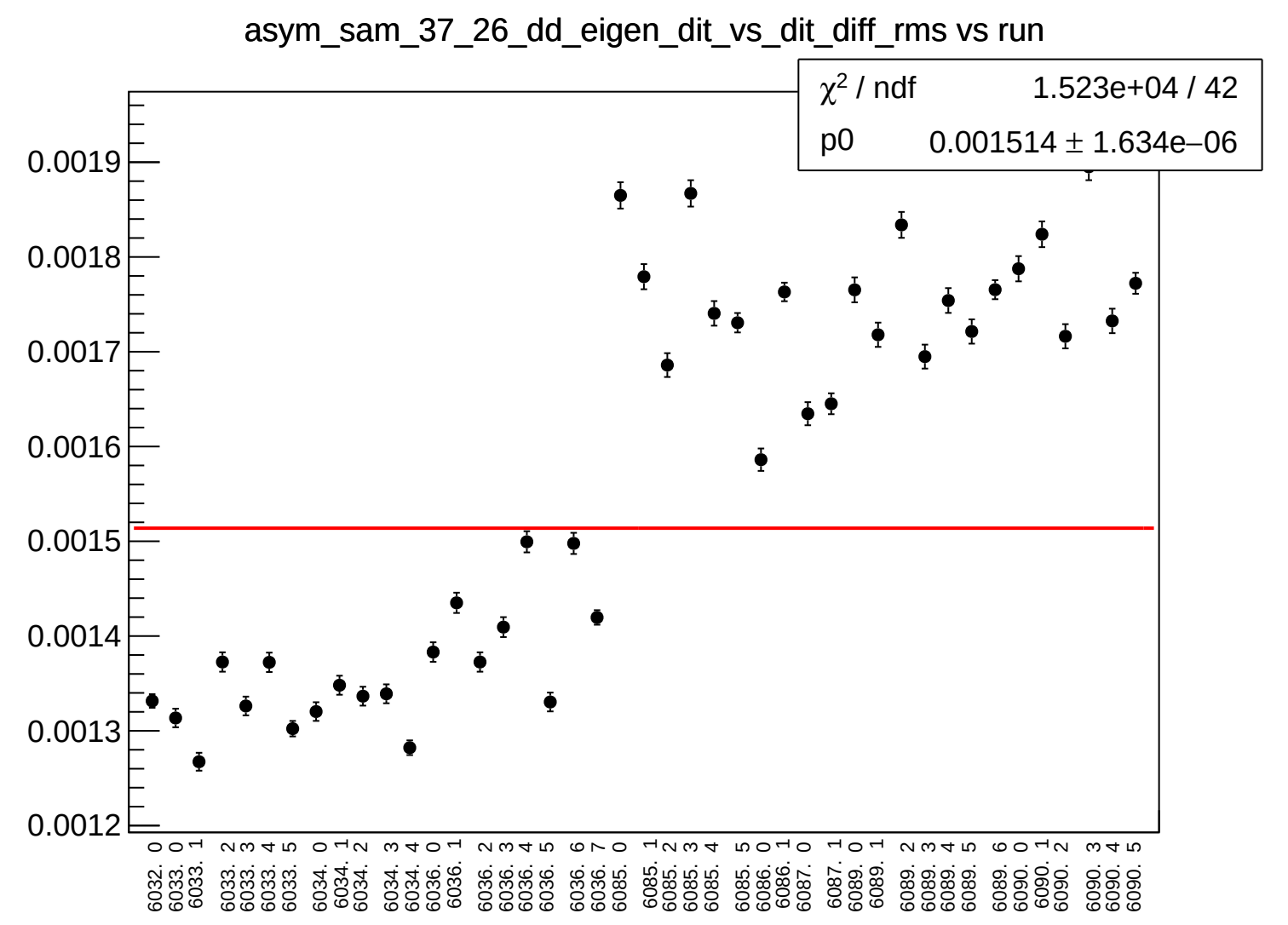

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.26 / 42
p0 0.002183 ± 0.03042
pull
Entries 43
Mean 36.51
Std Dev 0
pull1D
Entries 43
Mean −0.02127
Std Dev 1.003

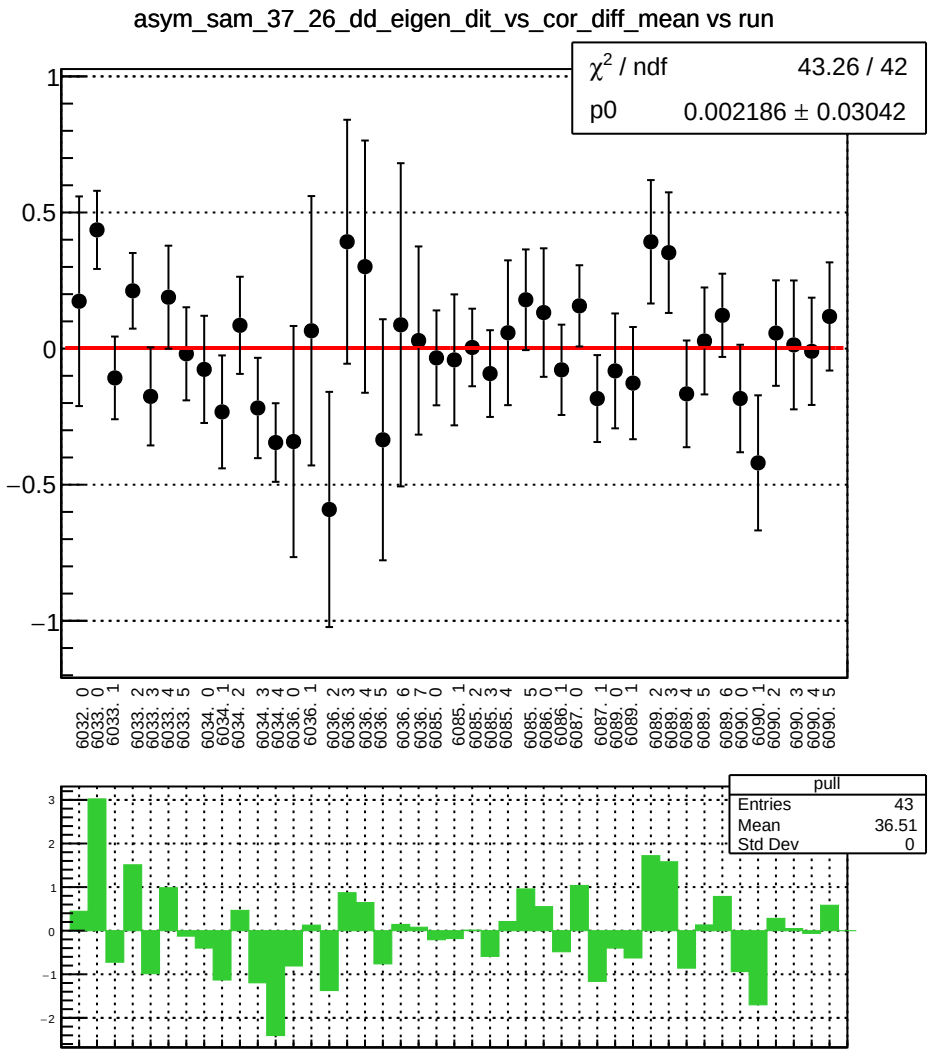

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.76e+04 / 42
p0 19.06 ± 0.02151
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

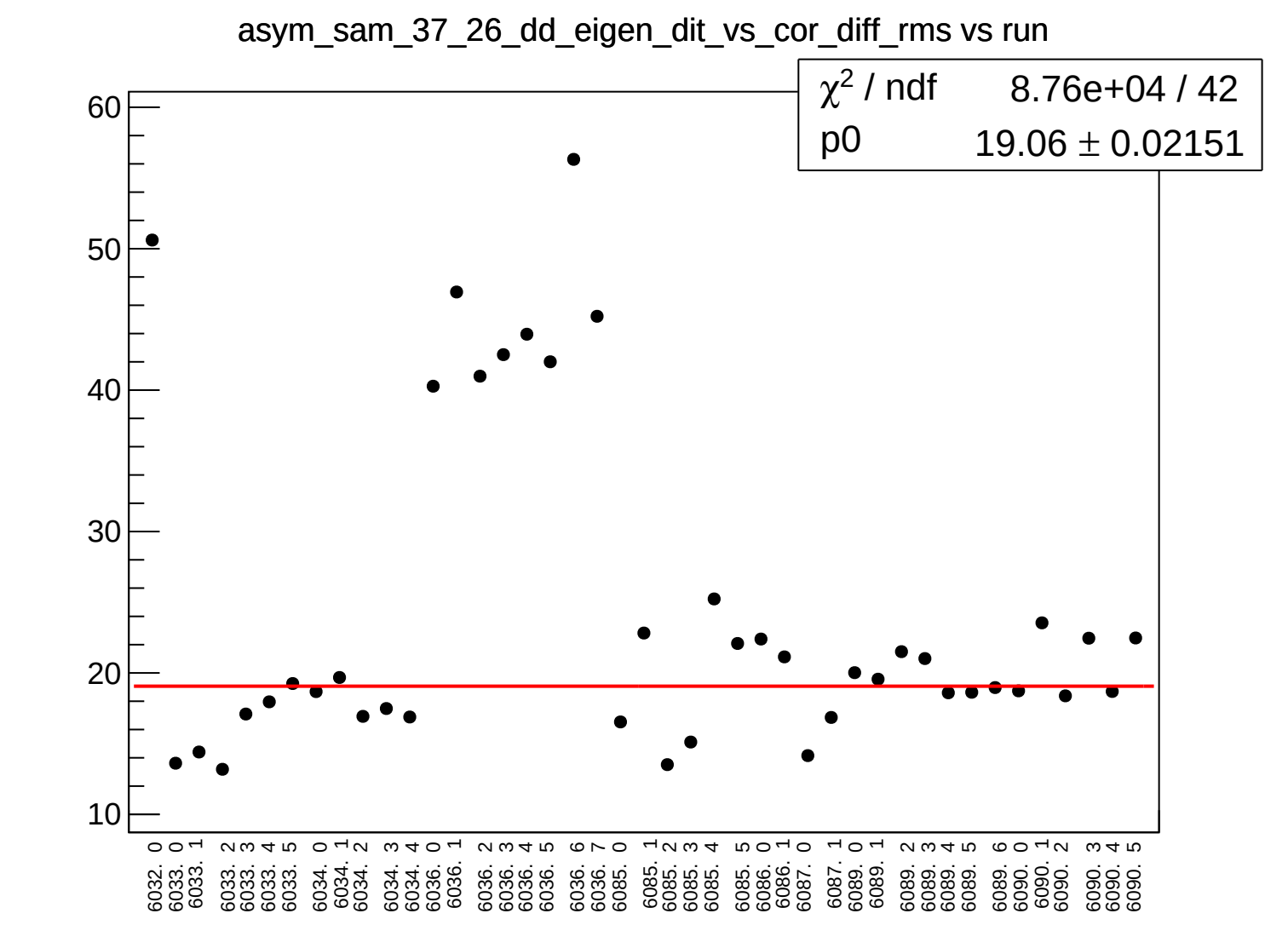

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.26 / 42
p0 0.002183 ± 0.03042
pull
Entries 43
Mean 36.51
Std Dev 0
pull1D
Entries 43
Mean −0.02127
Std Dev 1.003

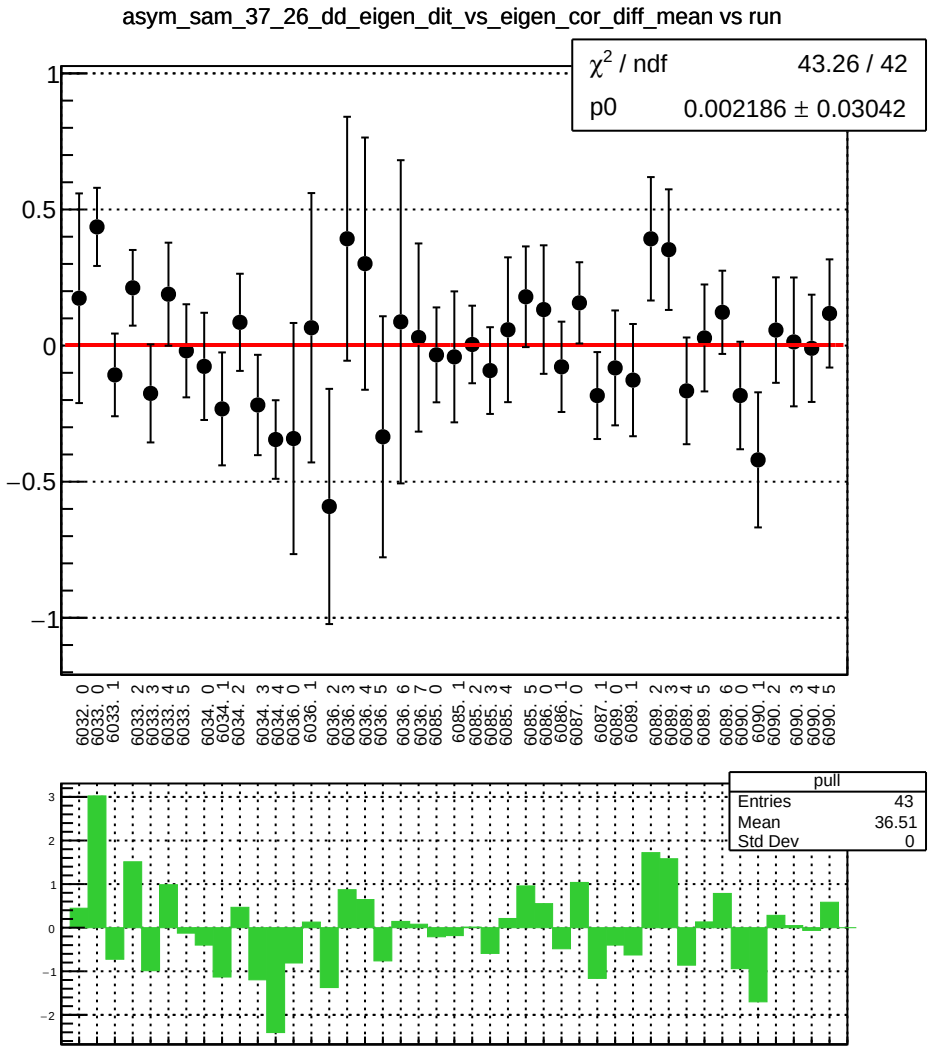

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.76e+04 / 42
p0 19.06 ± 0.02151
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

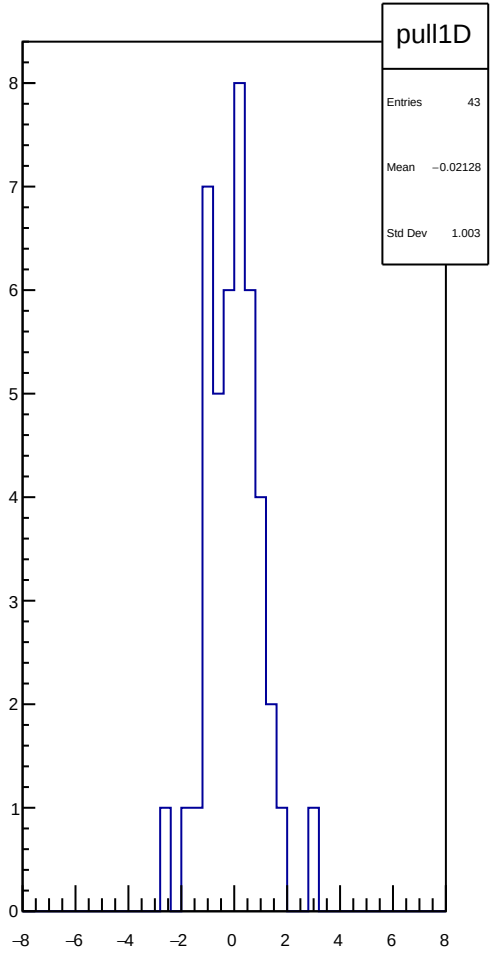

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.26 / 42
p0 −9.35e−07 ± 2.311e−06
0.06
0.04
0.02
0
−0.02
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.162
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01733
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

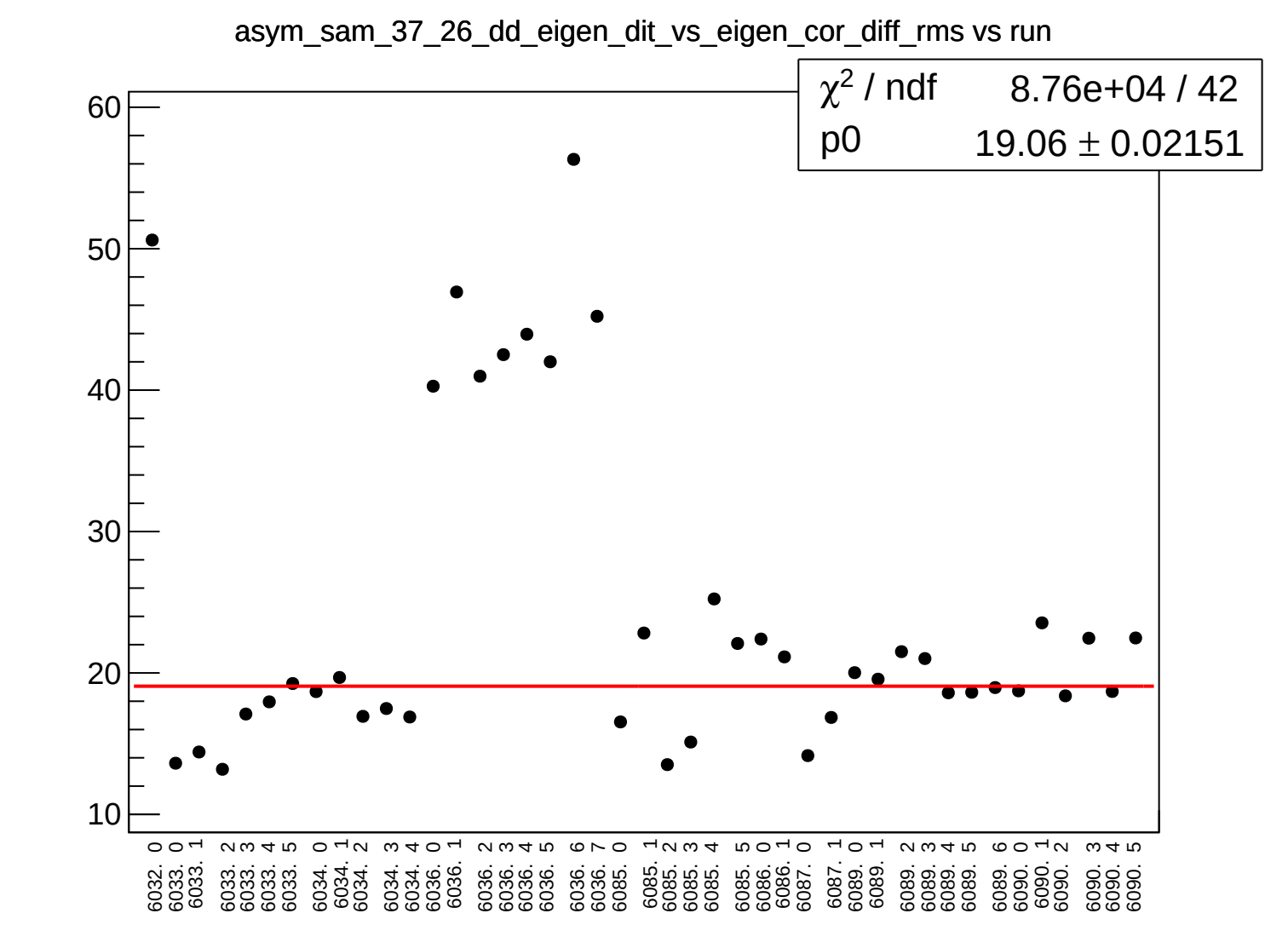

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.523e+04 / 42
p0 0.001514 ± 1.634e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

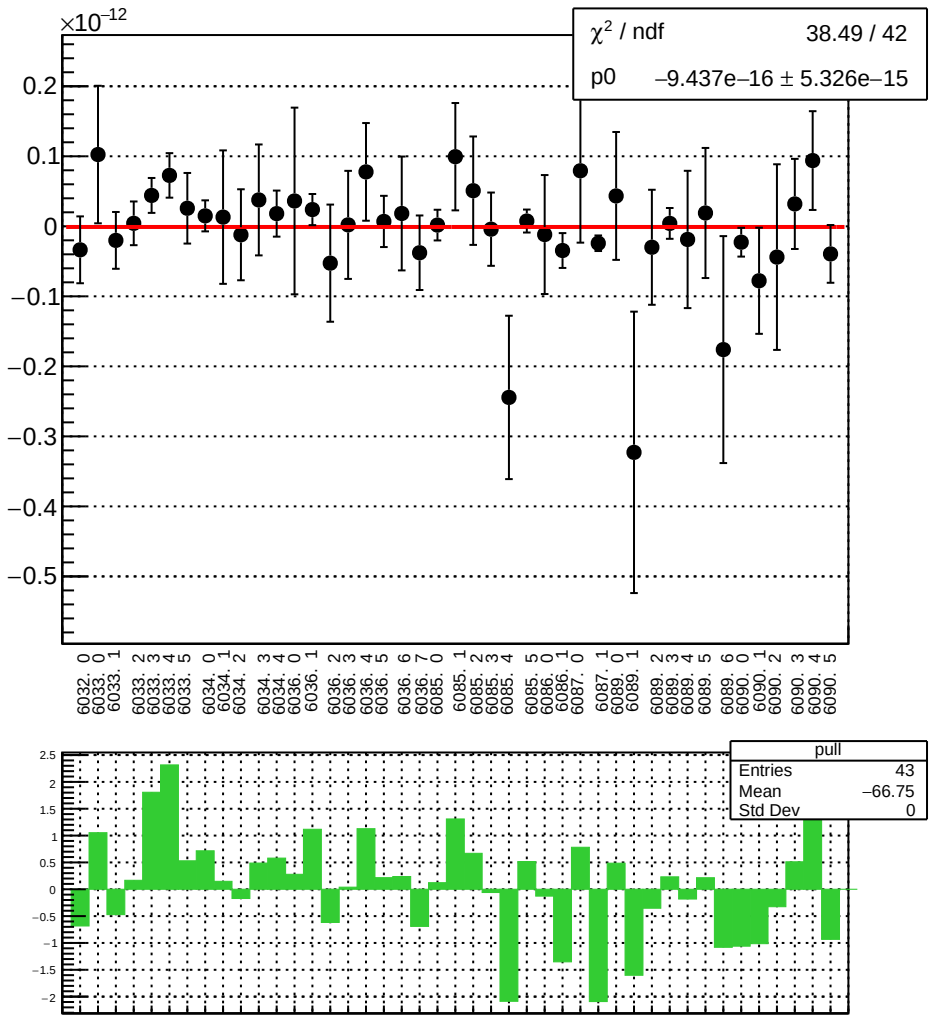

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.26 / 42
p0 0.002186 ± 0.03042
pull
Entries 43
Mean 36.51
Std Dev 0
pull1D
Entries 43
Mean −0.02128
Std Dev 1.003

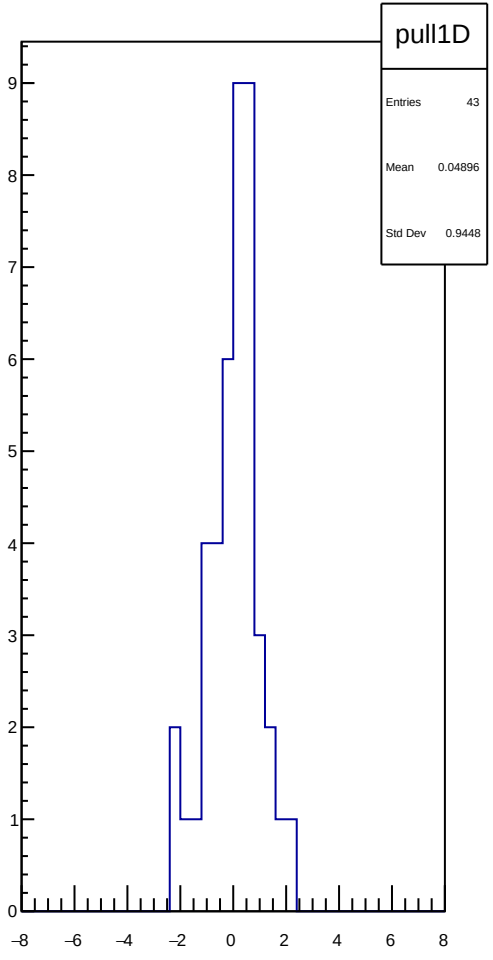

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.76e+04 / 42
p0 19.06 ± 0.02151
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

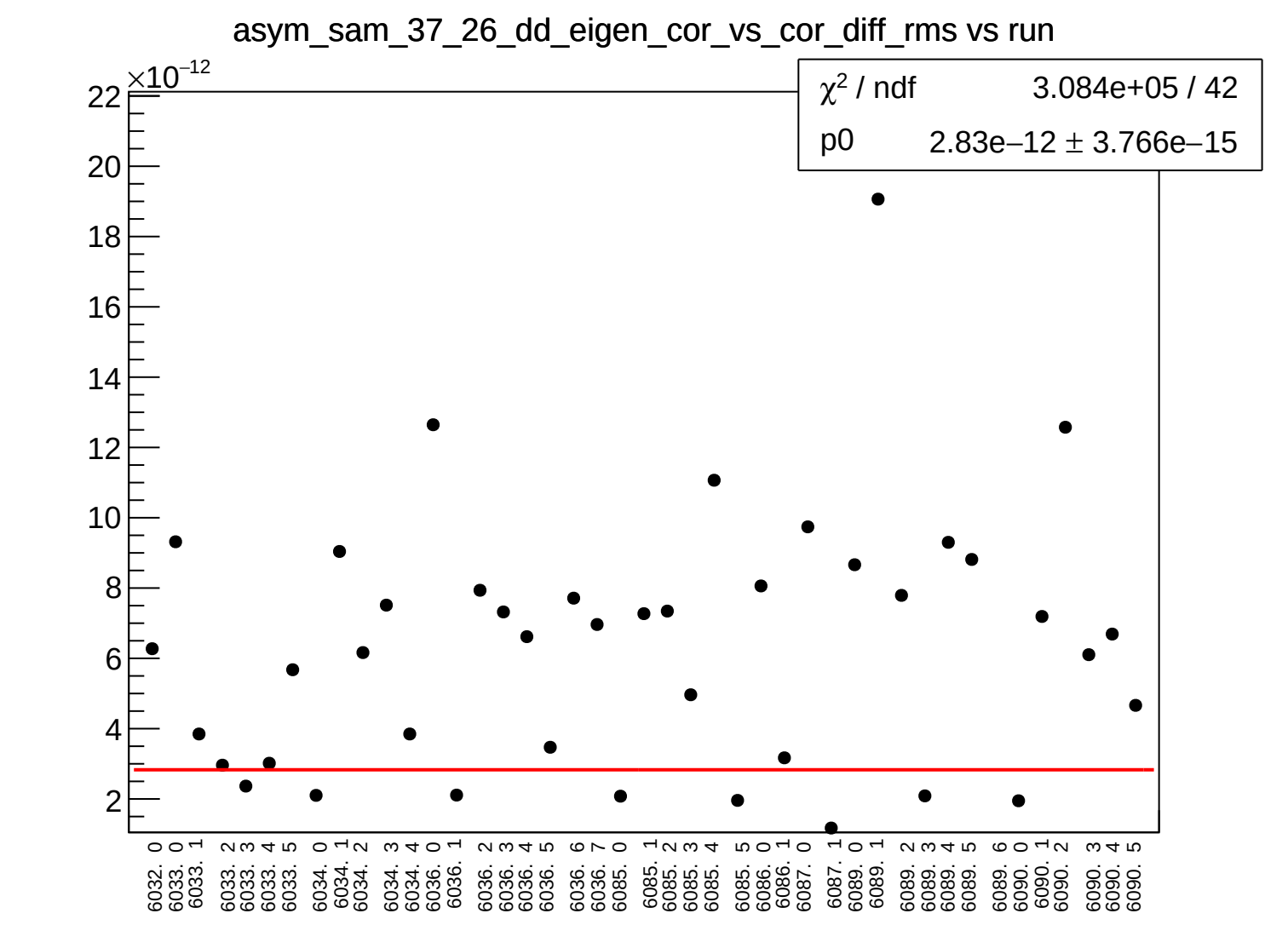

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.26 / 42
p0 0.002186 ± 0.03042
pull
Entries 43
Mean 36.51
Std Dev 0

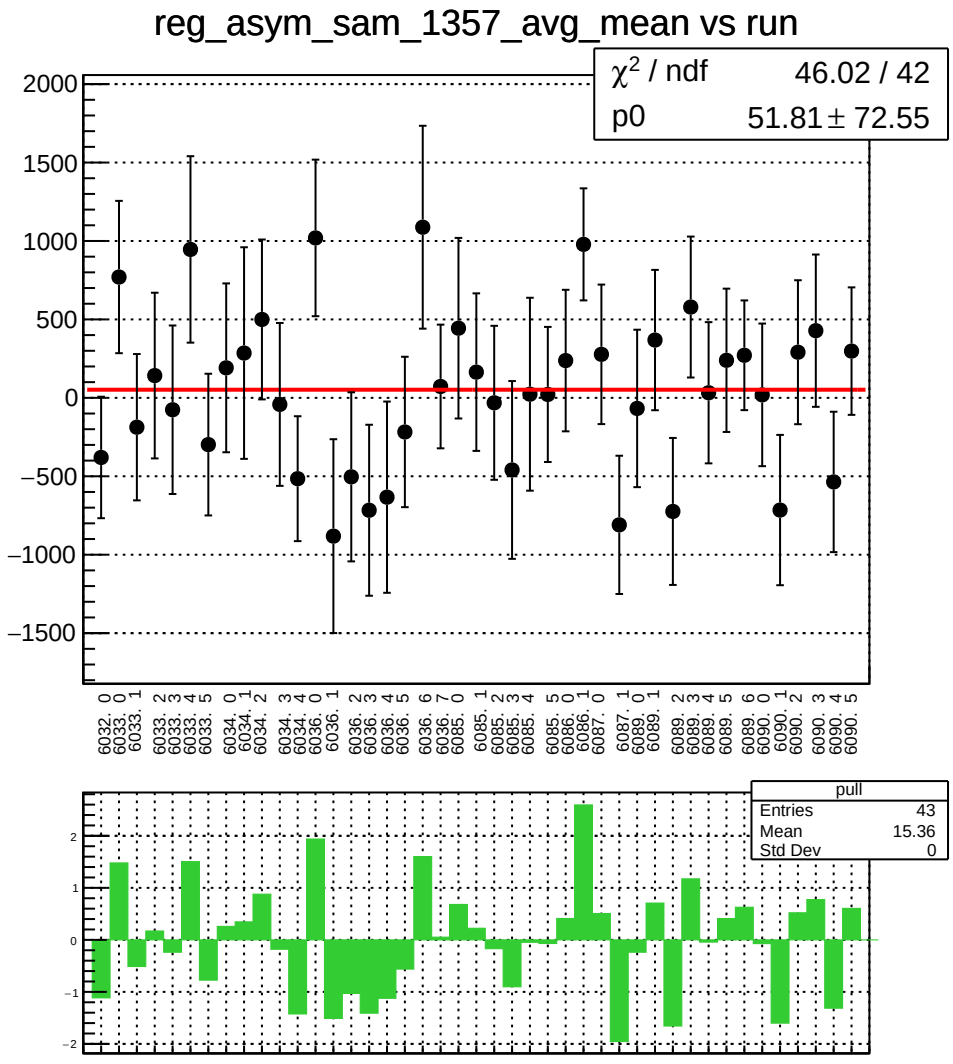

pull1D
Entries 43
Mean −0.02128
Std Dev 1.003

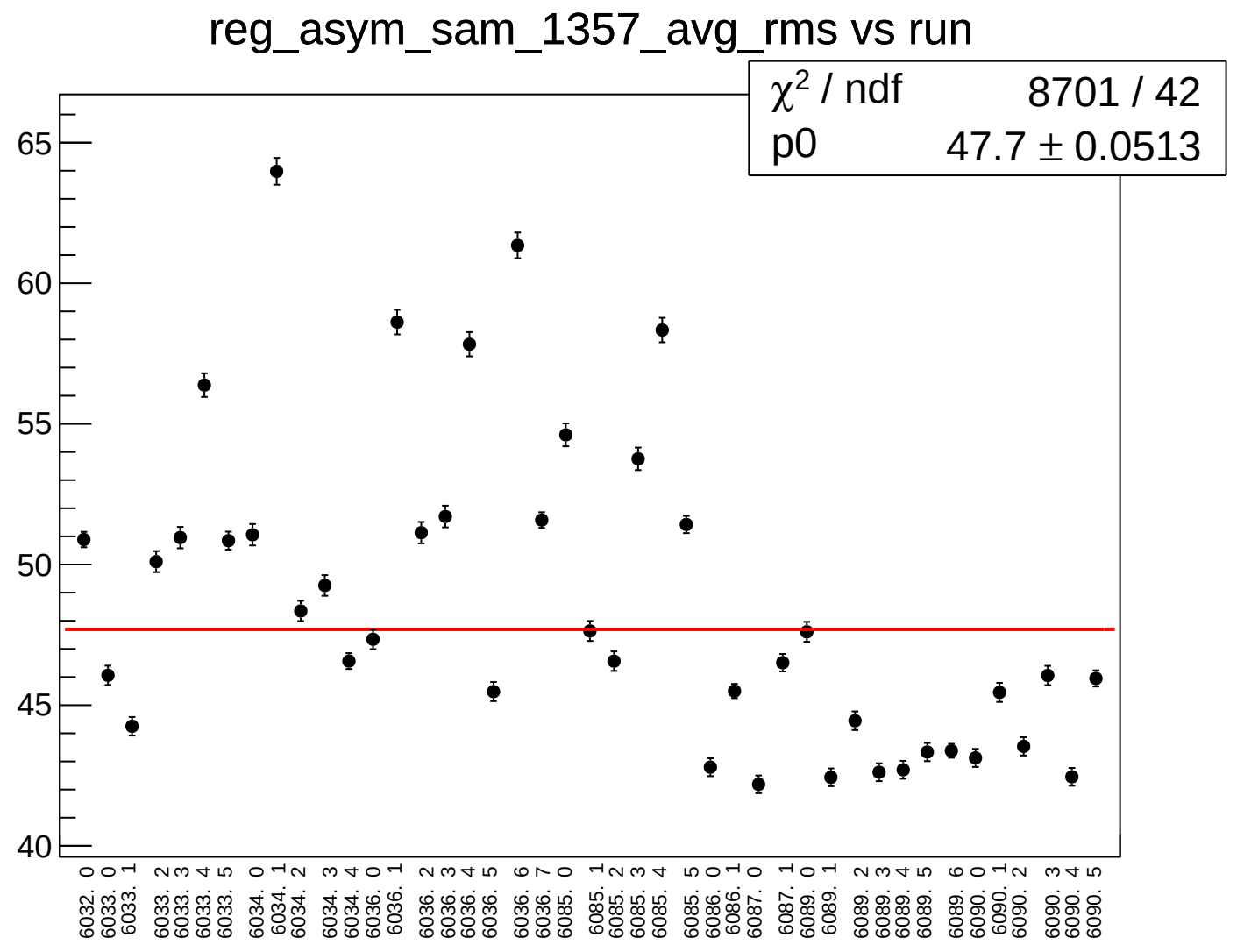

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.76e+04 / 42
p0 19.06 ± 0.02151
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

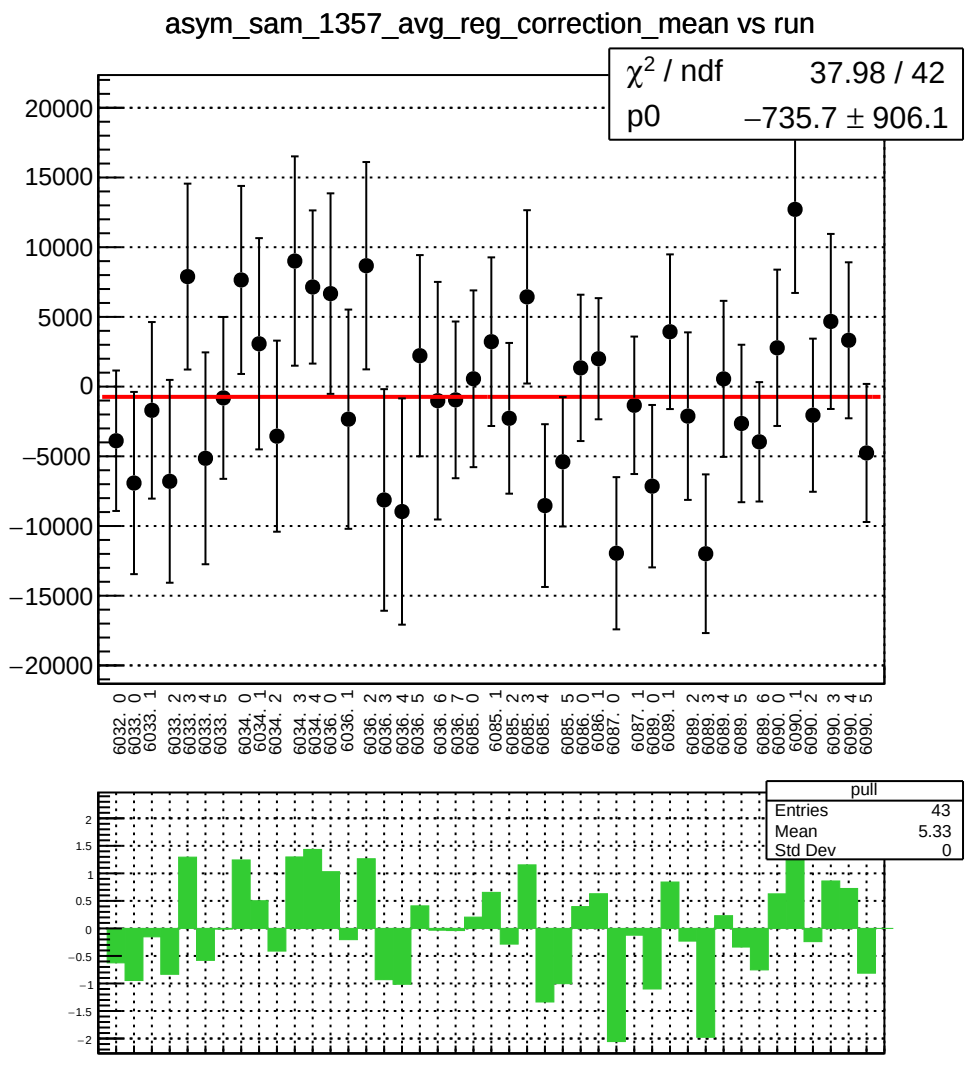

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 38.49 / 42
p0 −9.437e−16 ± 5.326e−15
pull
Entries 43
Mean −66.75
Std Dev 0

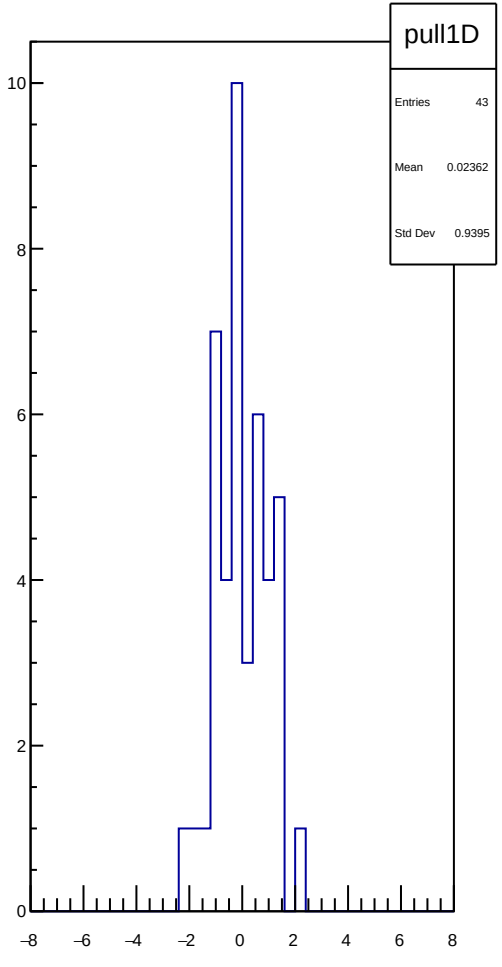

pull1D
Entries 43
Mean 0.04896
Std Dev 0.9448

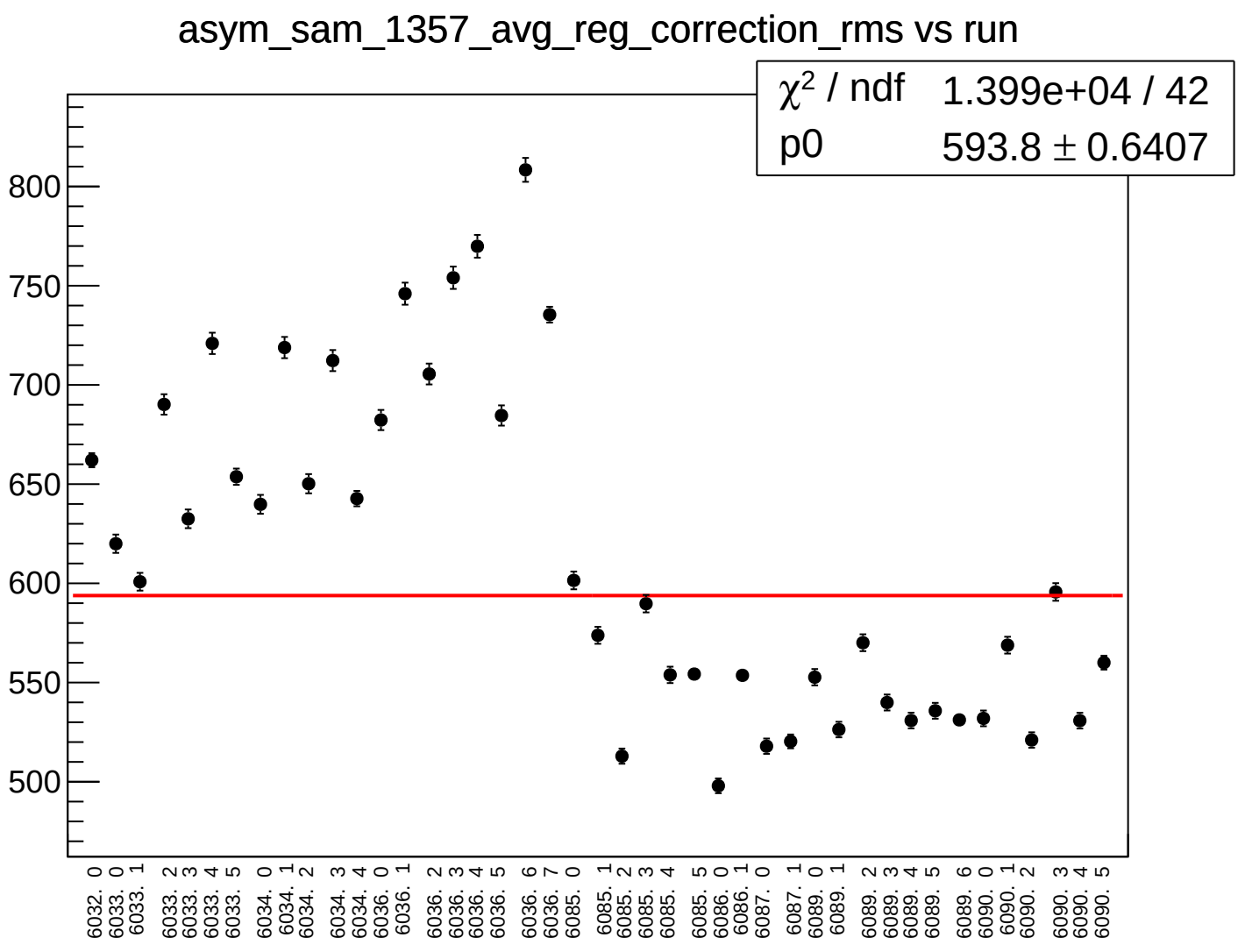

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.084e+05 / 42
p0 2.83e−12 ± 3.766e−15
22
20
18
16
14
12
10
8
6
4
2
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

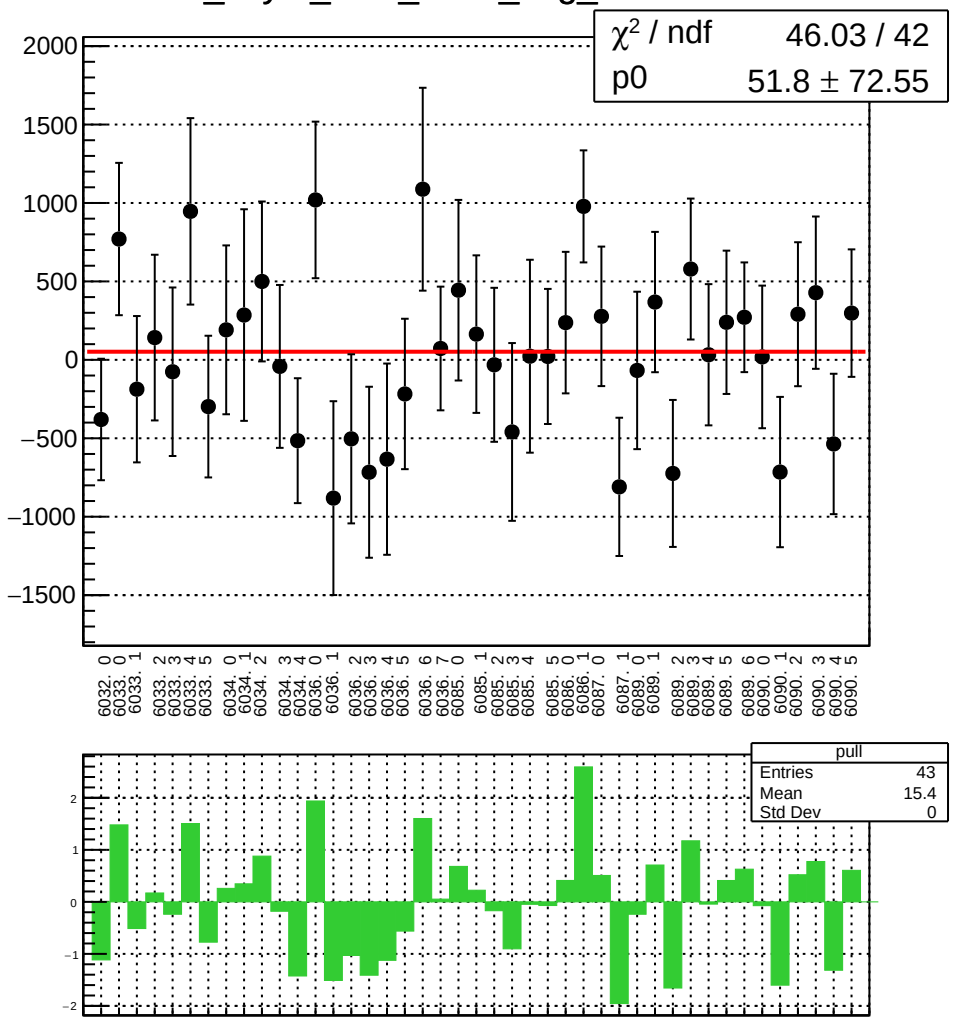

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 46.02 / 42
p0 51.81 ± 72.55
pull
Entries 43
Mean 15.36
Std Dev 0
pull1D
Entries 43
Mean −0.01109
Std Dev 1.035

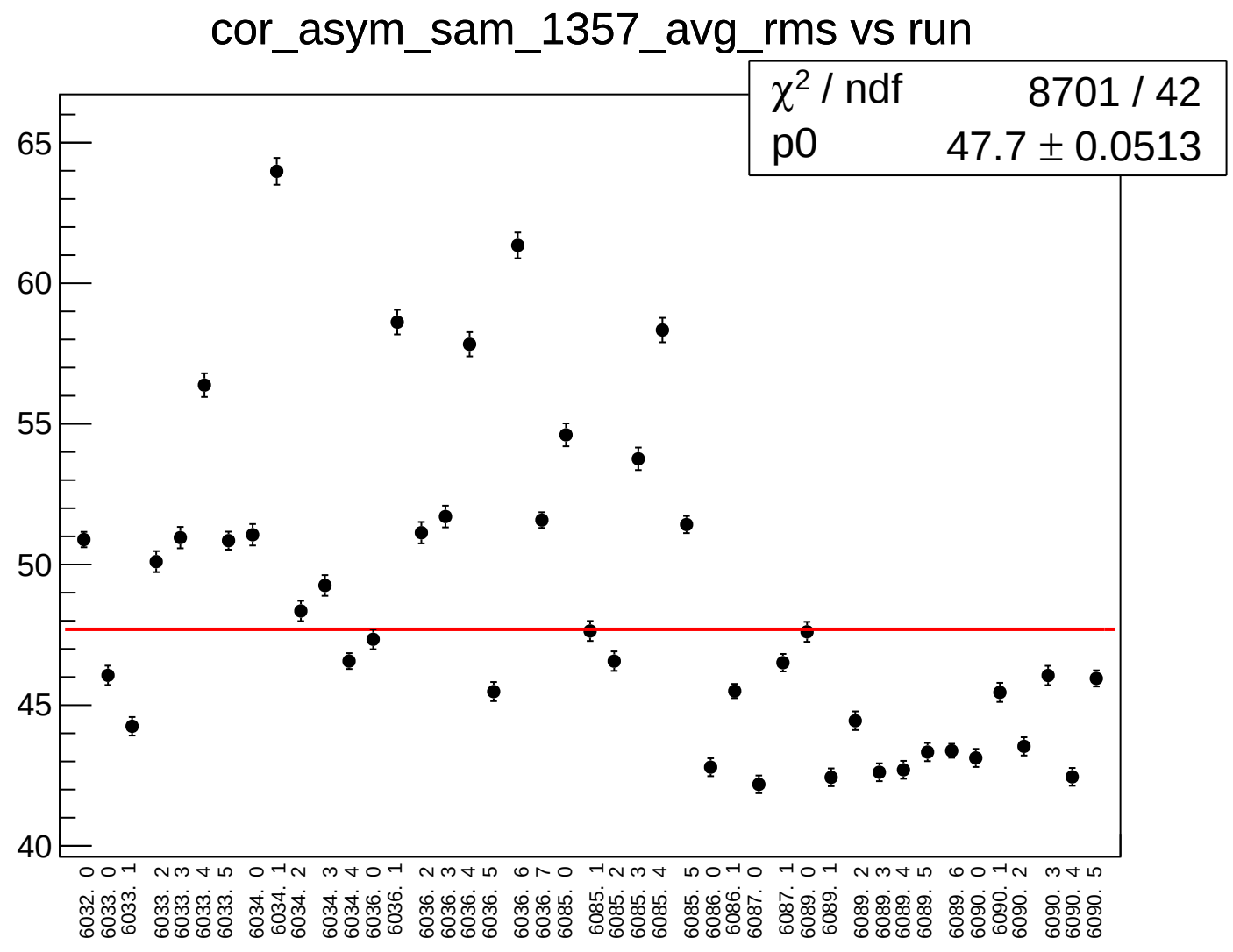

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 8701 / 42
p0 47.7 ± 0.0513
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

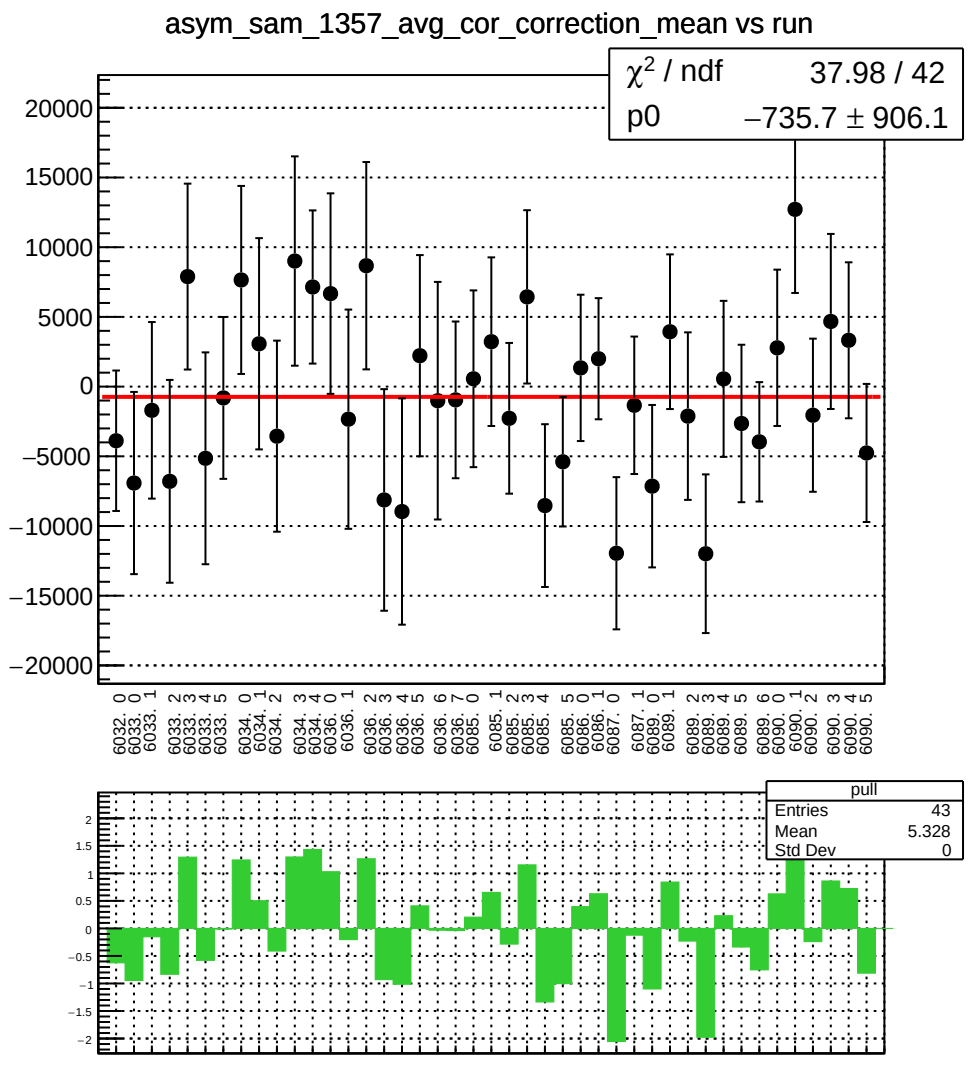

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 37.98 / 42
p0 −735.7 ± 906.1
pull
Entries 43
Mean 5.33
Std Dev 0

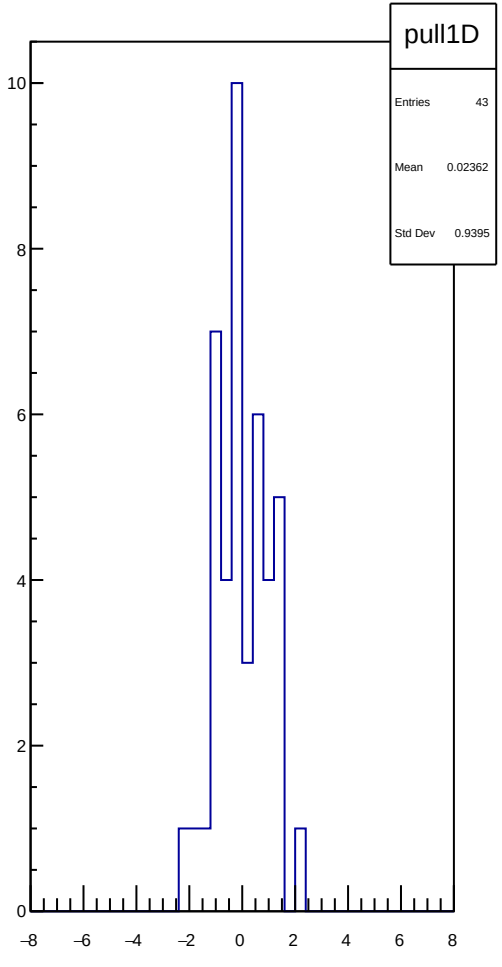

pull1D
Entries 43
Mean 0.02362
Std Dev 0.9395

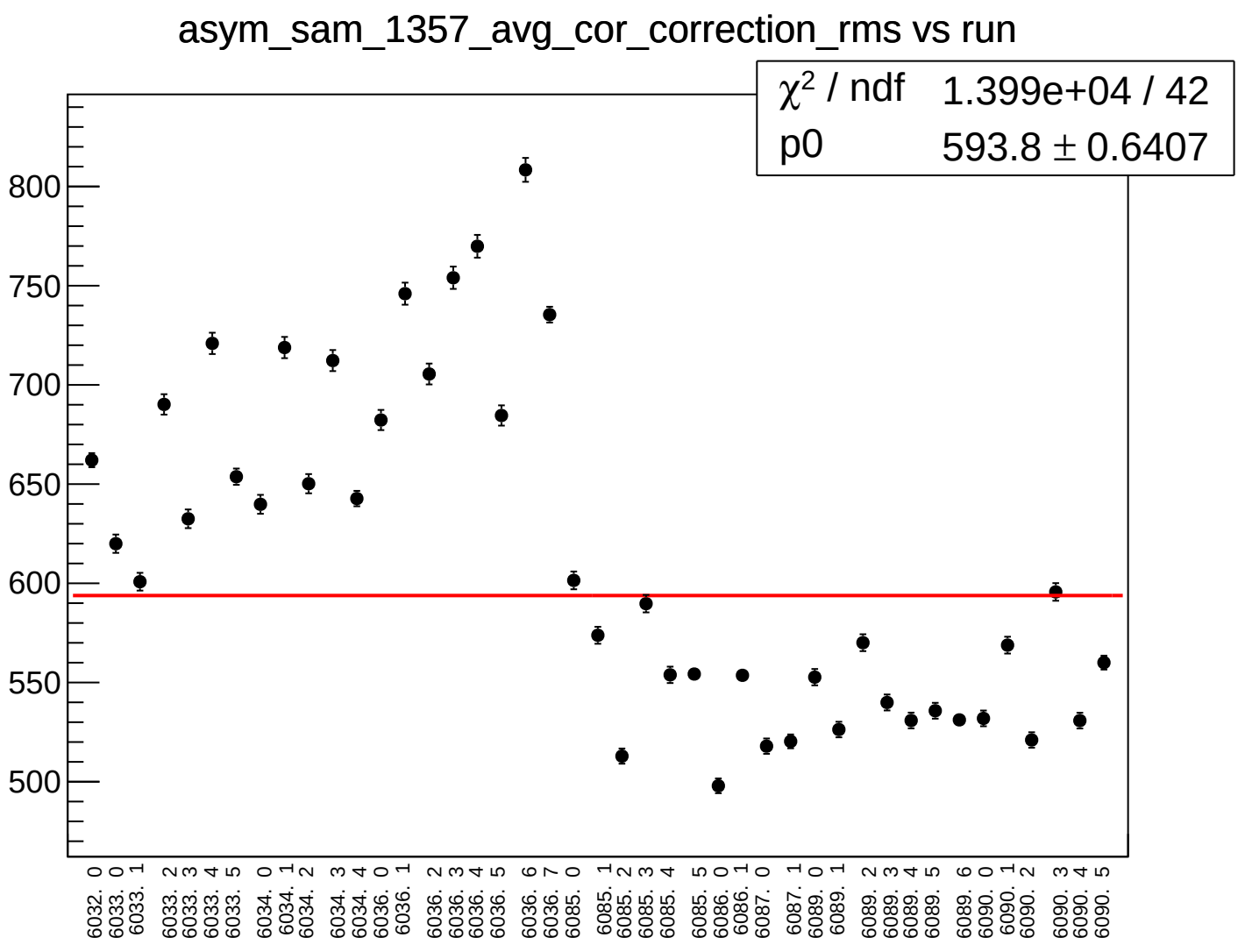

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.399e+04 / 42
p0 593.8 ± 0.6407
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

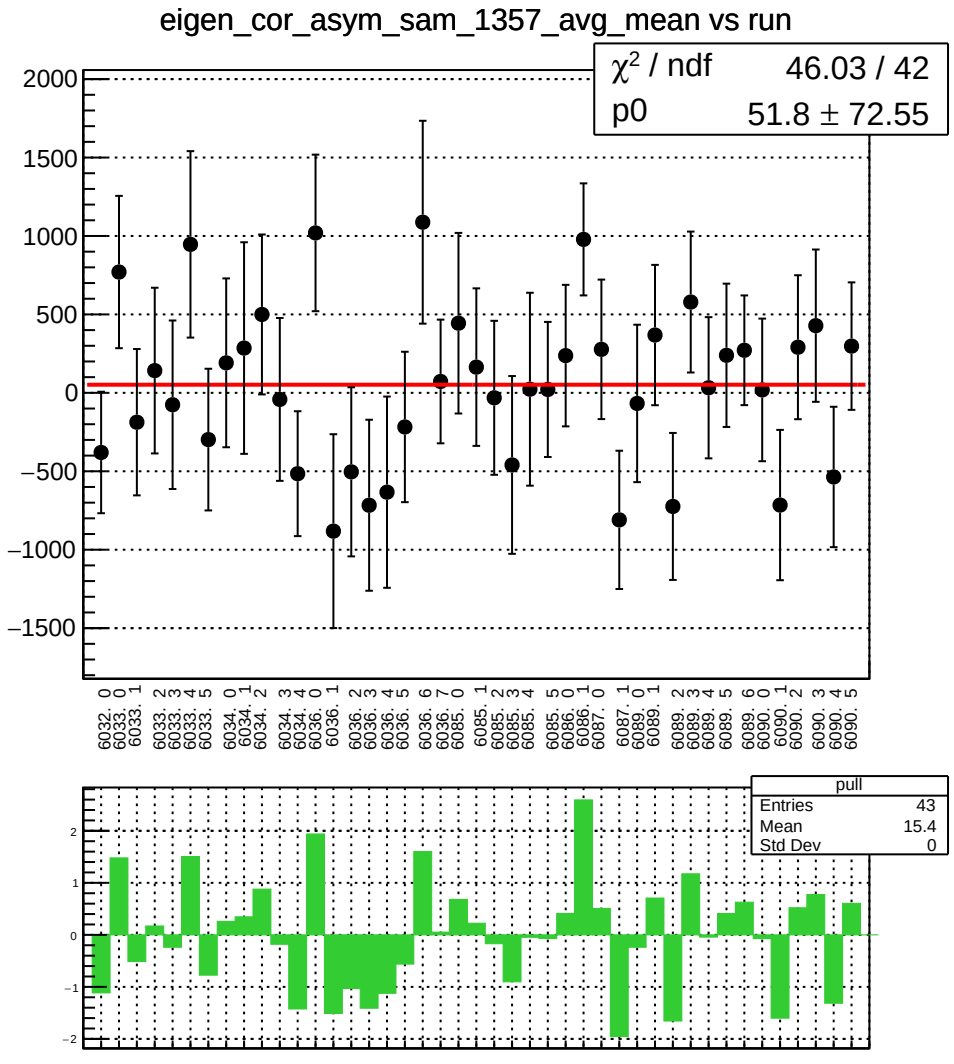

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 46.03 / 42
p0 51.8 ± 72.55
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01108
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

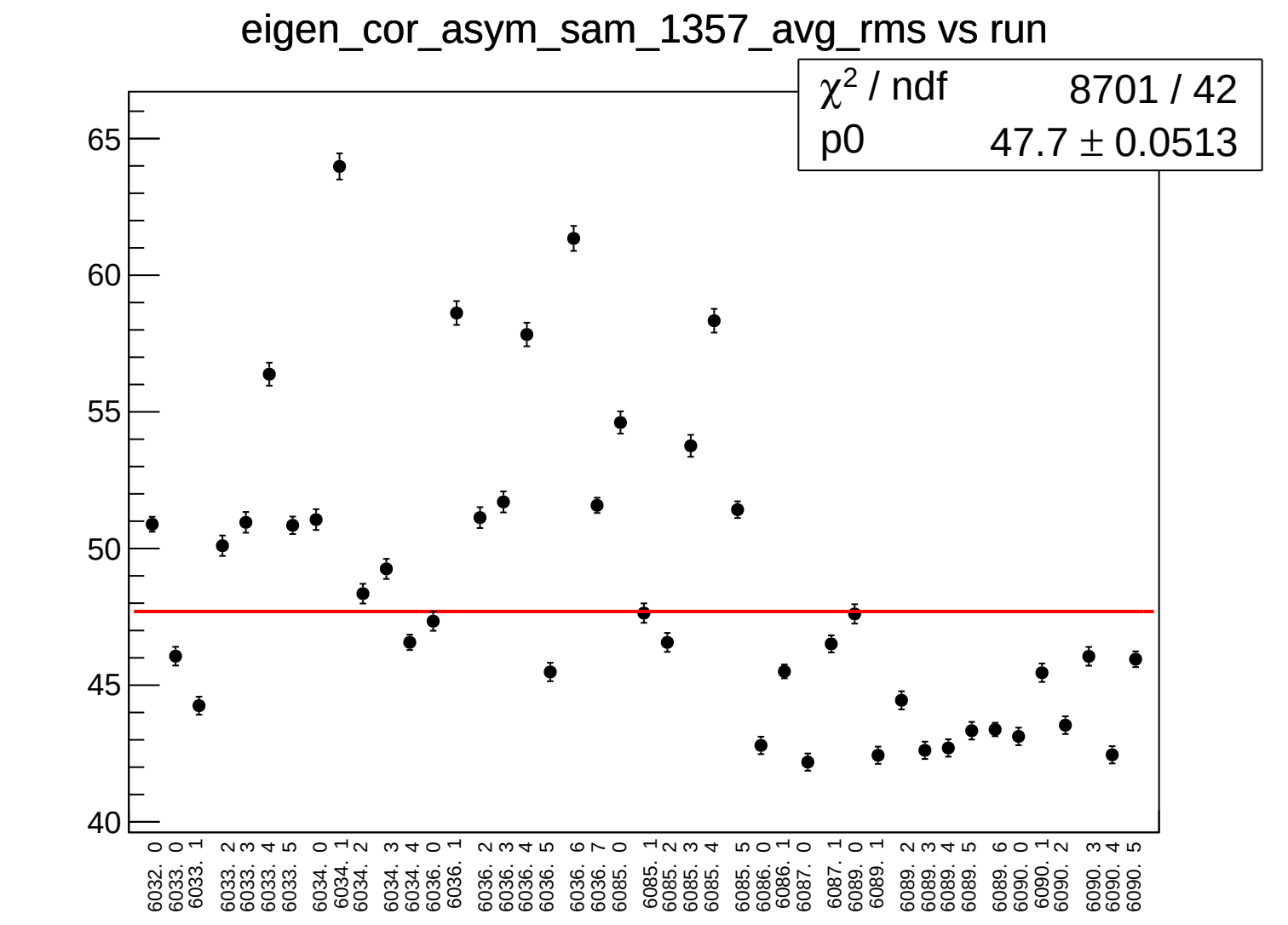

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 8701 / 42
p0 47.7 ± 0.0513
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

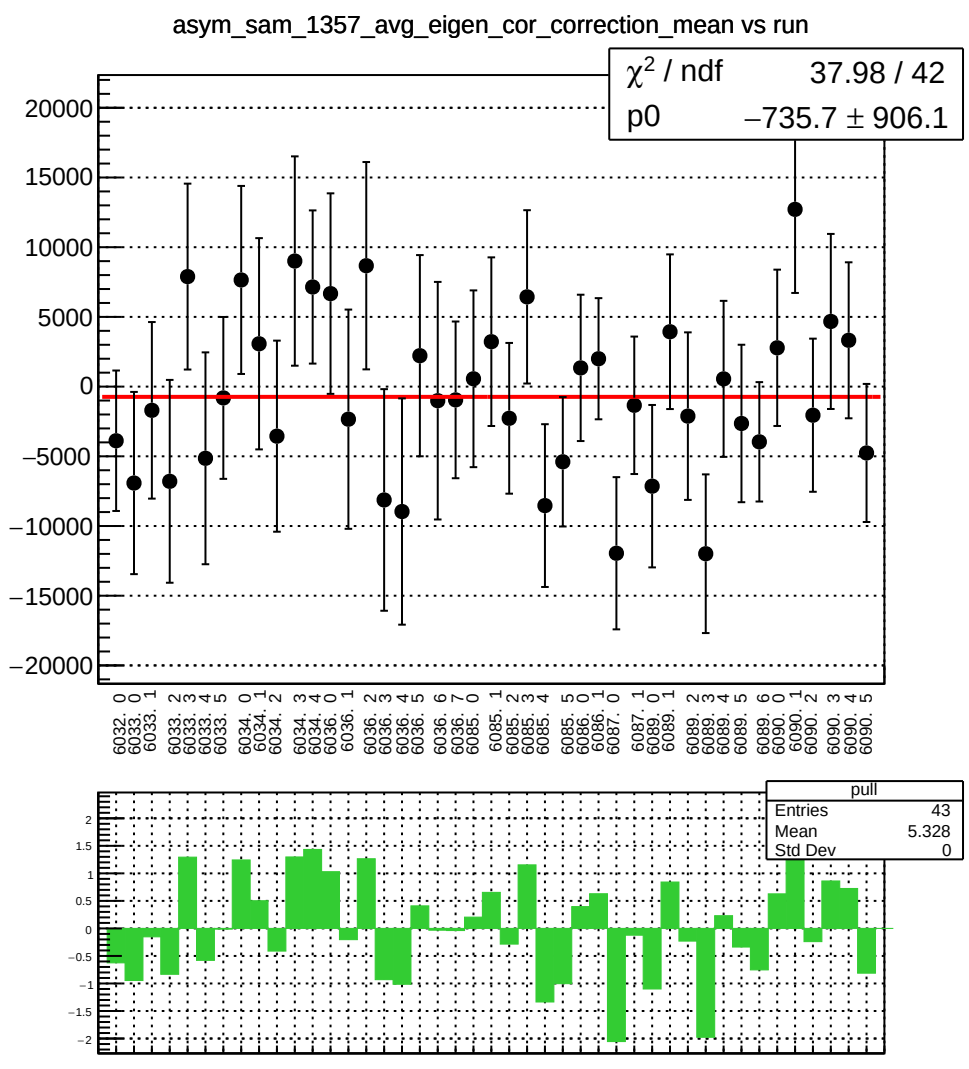

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 37.98 / 42
p0 −735.7 ± 906.1
pull
Entries 43
Mean 5.328
Std Dev 0

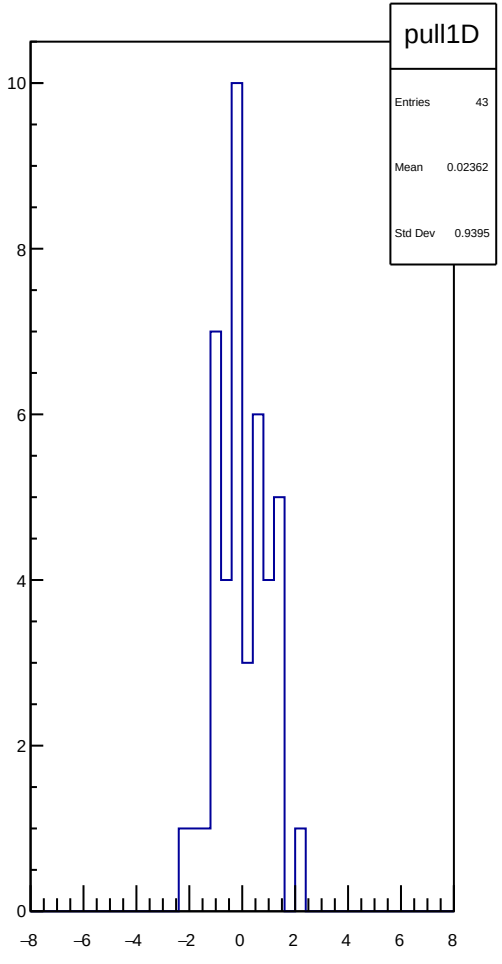

pull1D
Entries 43
Mean 0.02362
Std Dev 0.9395

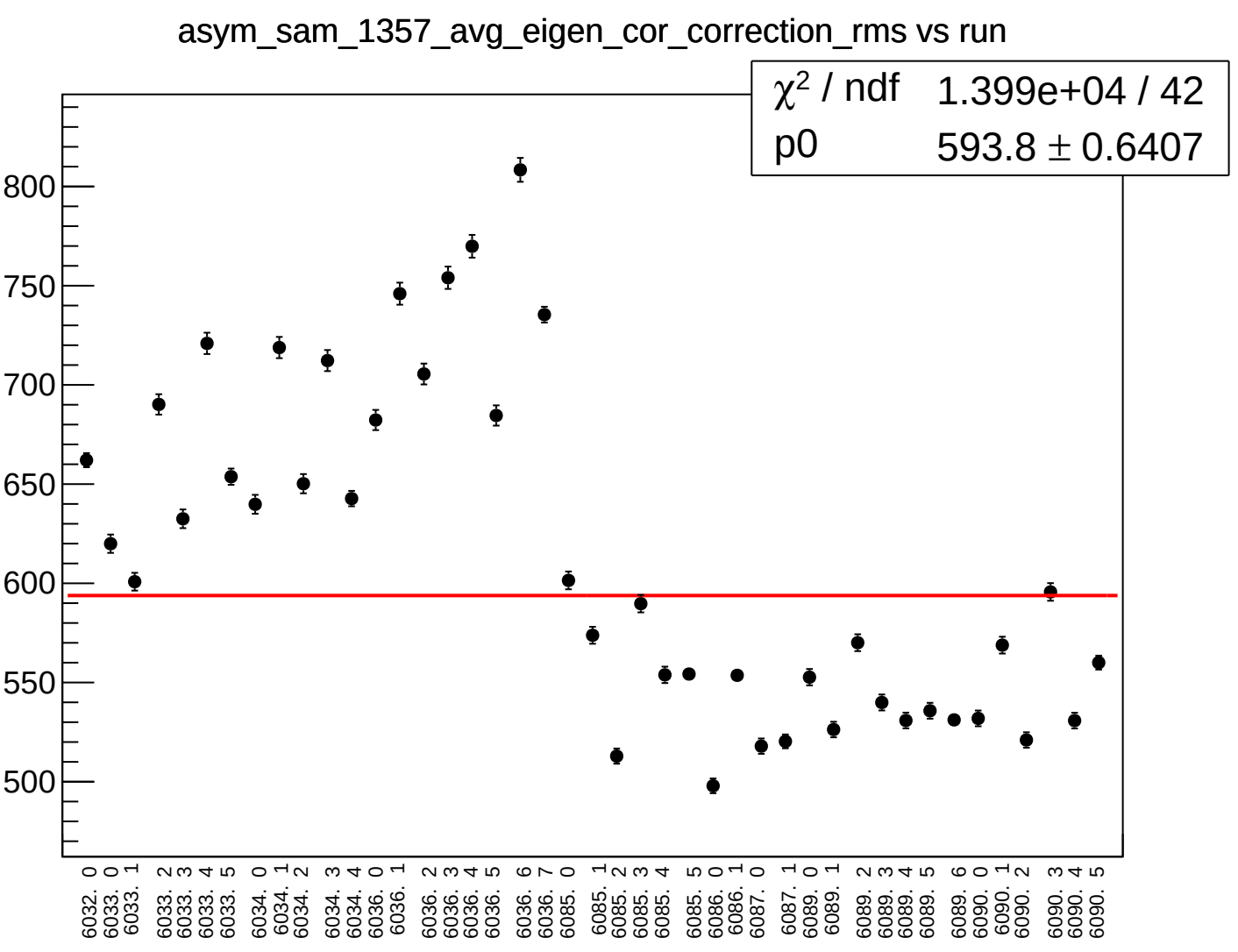

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.399e+04 / 42
p0 593.8 ± 0.6407
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

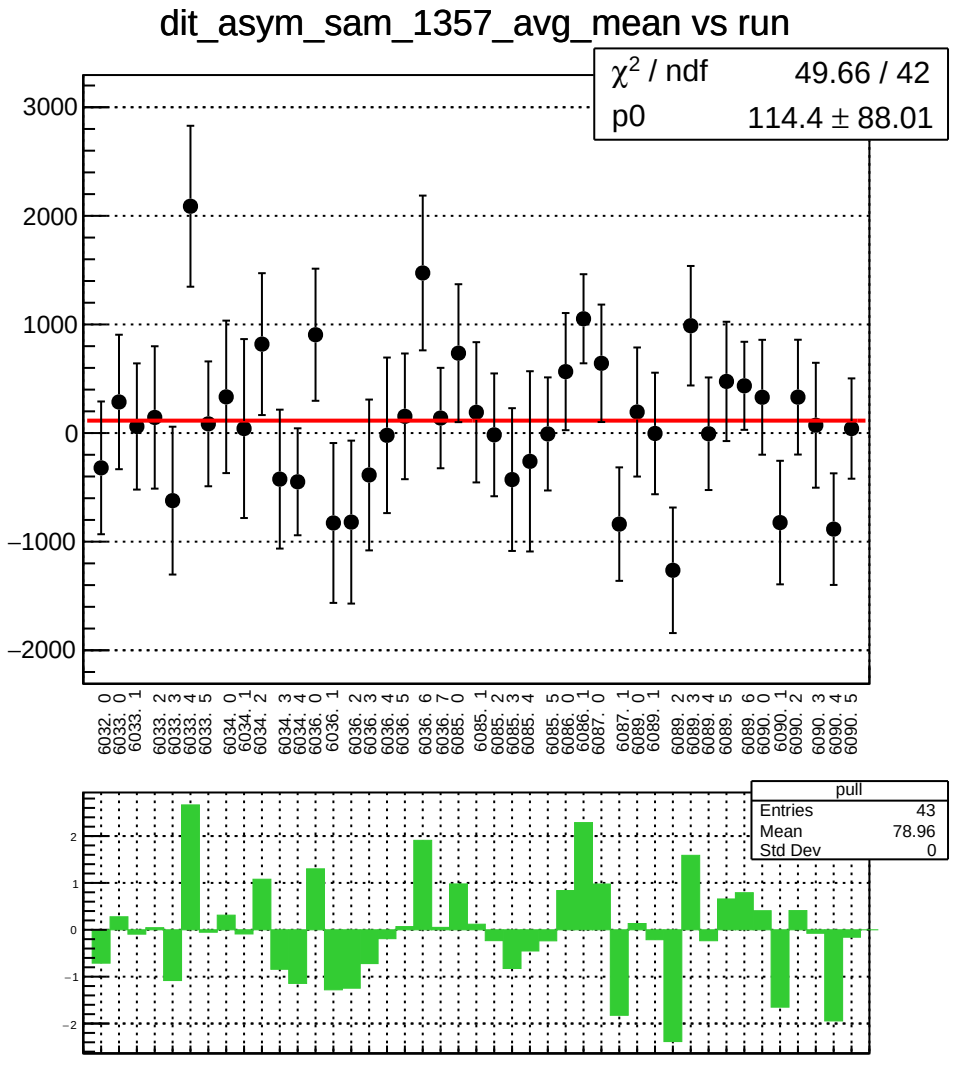

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 46.03 / 42
p0 51.8 ± 72.55
2000
1500
1000
500
0
−500
−1000
−1500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01108
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

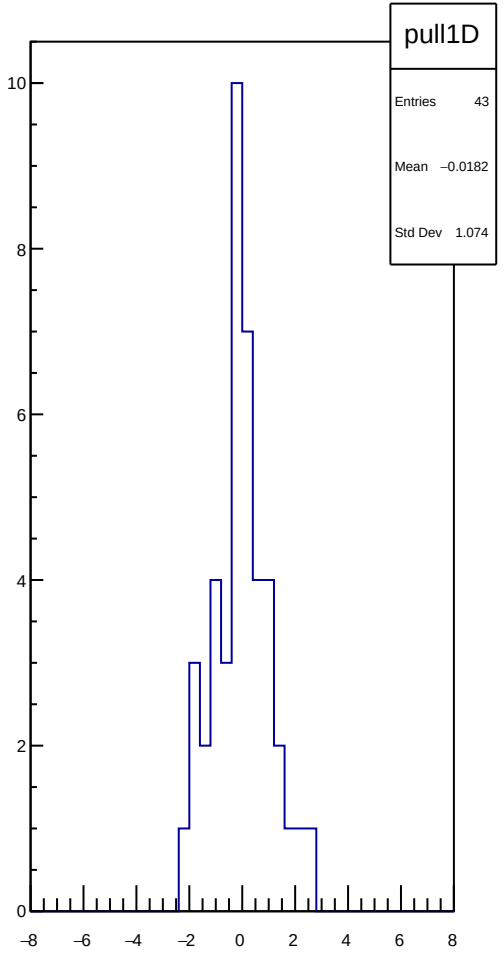

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 8701 / 42
p0 47.7 ± 0.0513
65
60
55
50
45
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

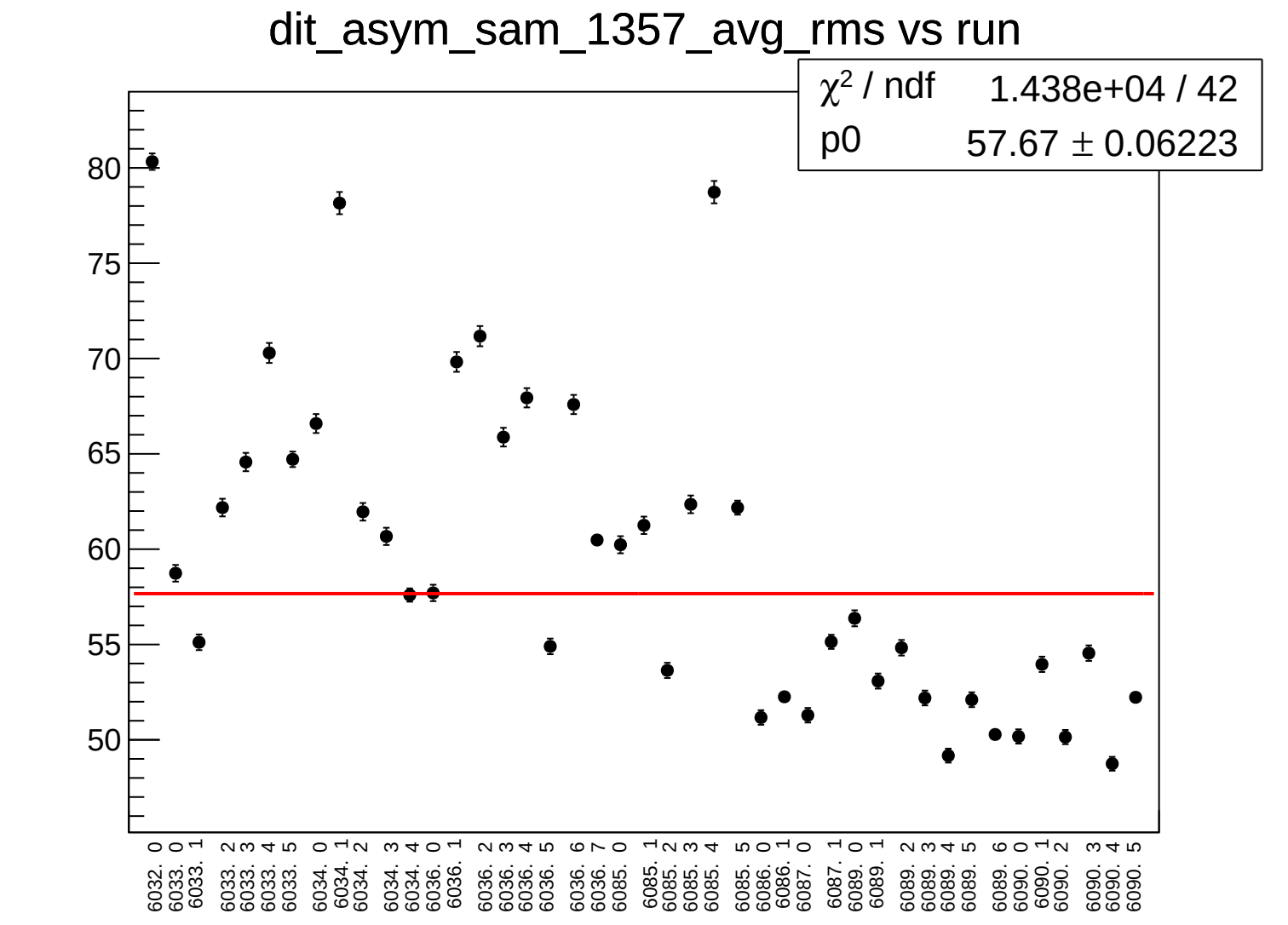

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 37.98 / 42
p0 −735.7 ± 906.1
pull
Entries 43
Mean 5.328
Std Dev 0

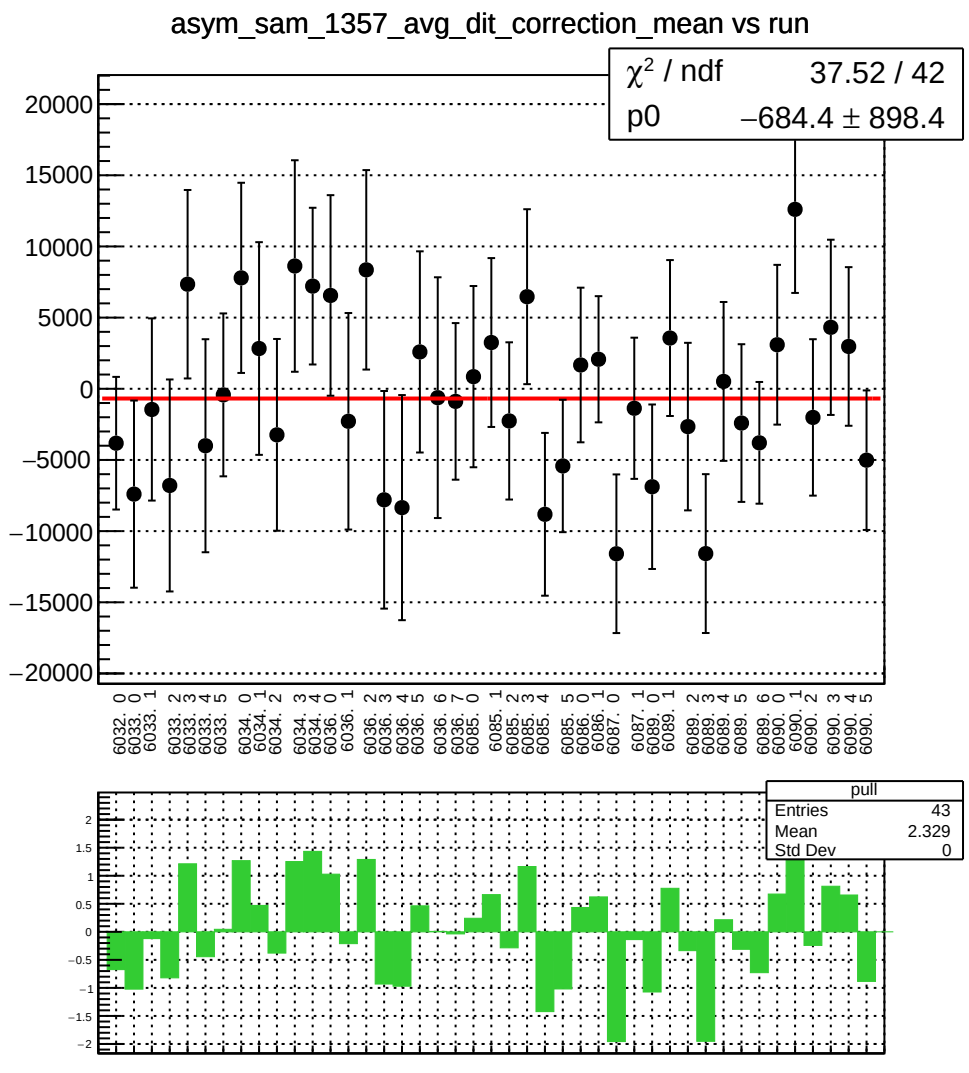

pull1D
Entries 43
Mean 0.02362
Std Dev 0.9395

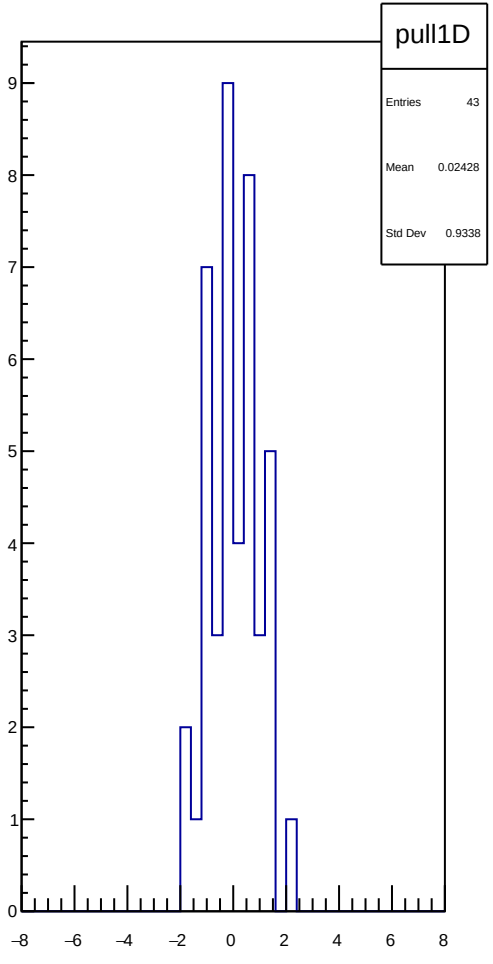

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.399e+04 / 42
p0 593.8 ± 0.6407
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

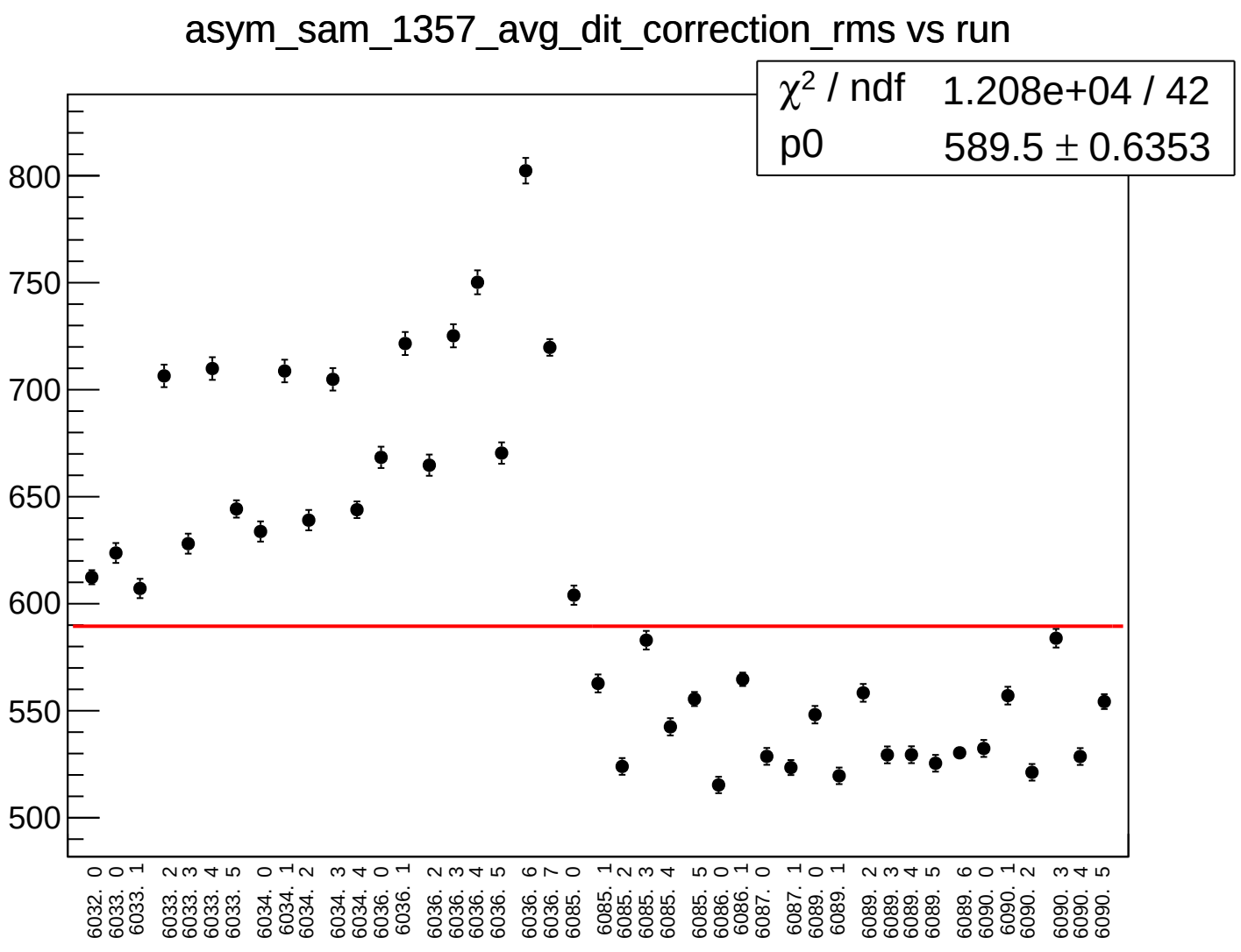

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 49.66 / 42
p0 114.4 ± 88.01
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 78.96
Std Dev 0
2
1
0
−1
−2

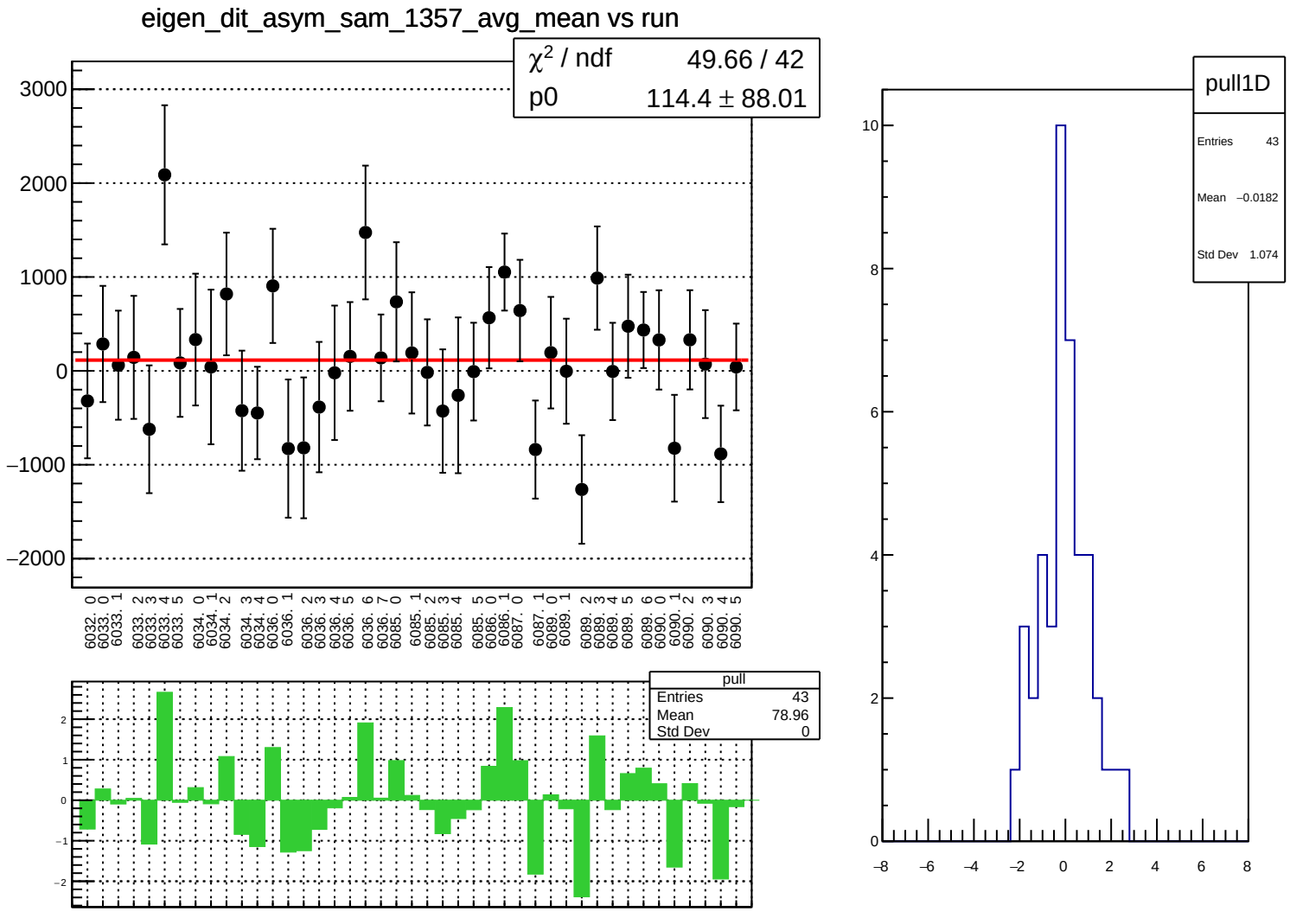

pull1D
Entries 43
Mean −0.0182
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

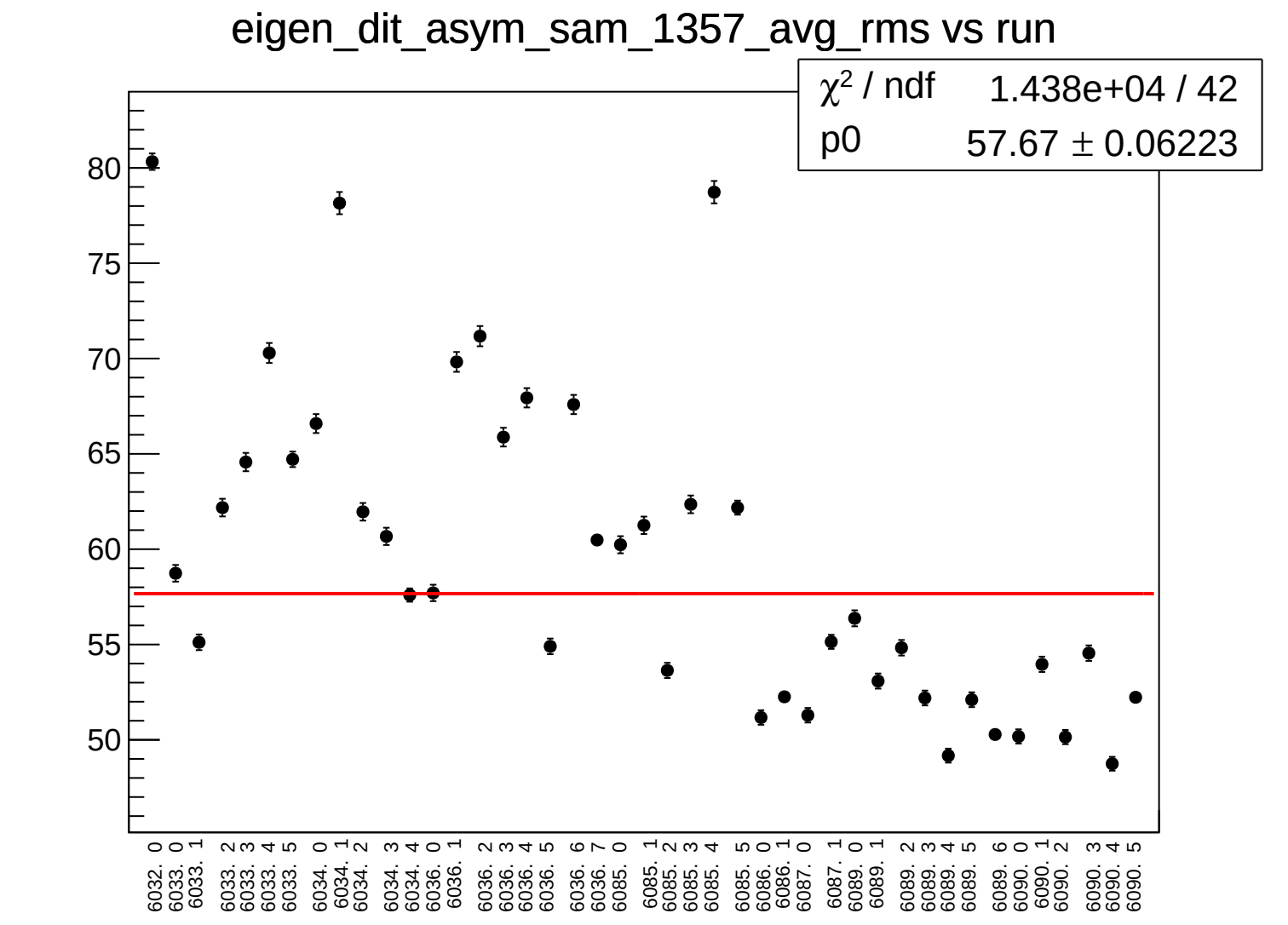

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.438e+04 / 42
p0 57.67 ± 0.06223
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

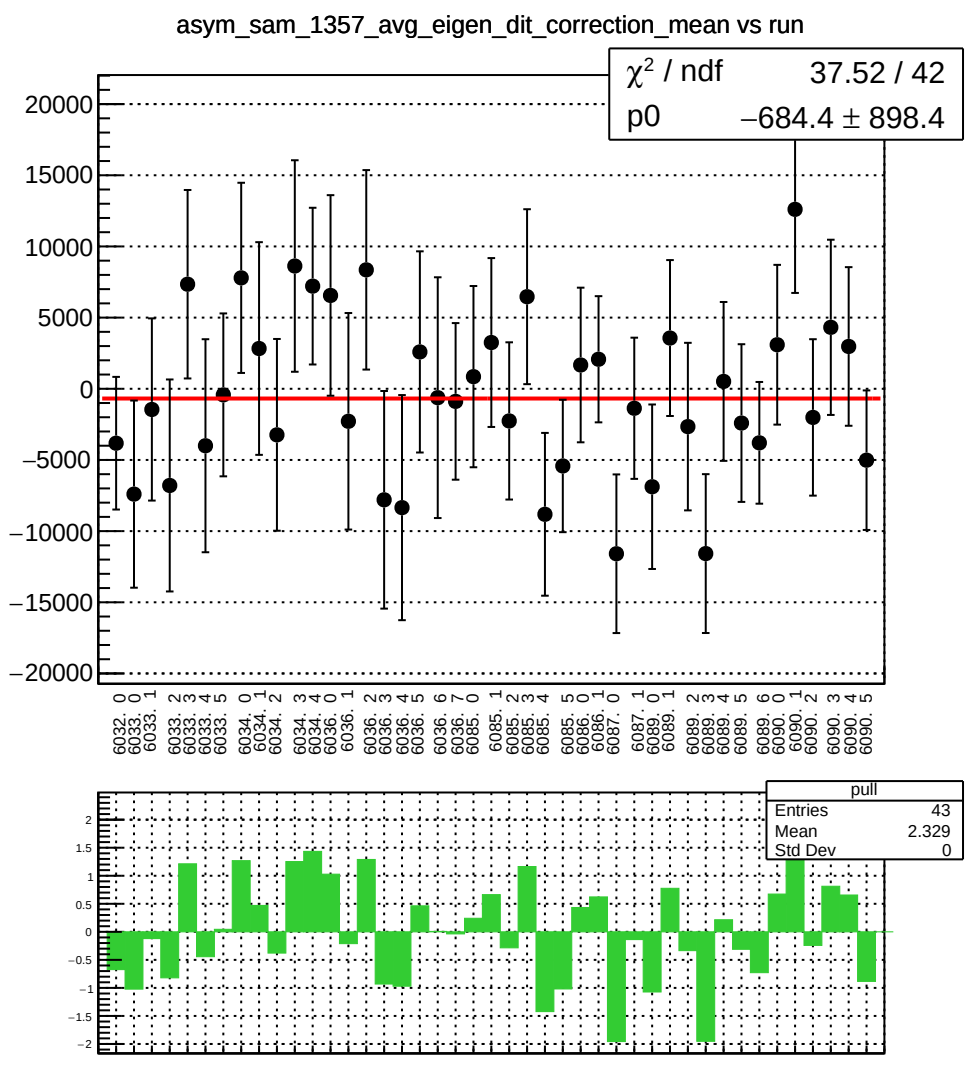

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 37.52 / 42
p0 −684.4 ± 898.4
pull
Entries 43
Mean 2.329
Std Dev 0

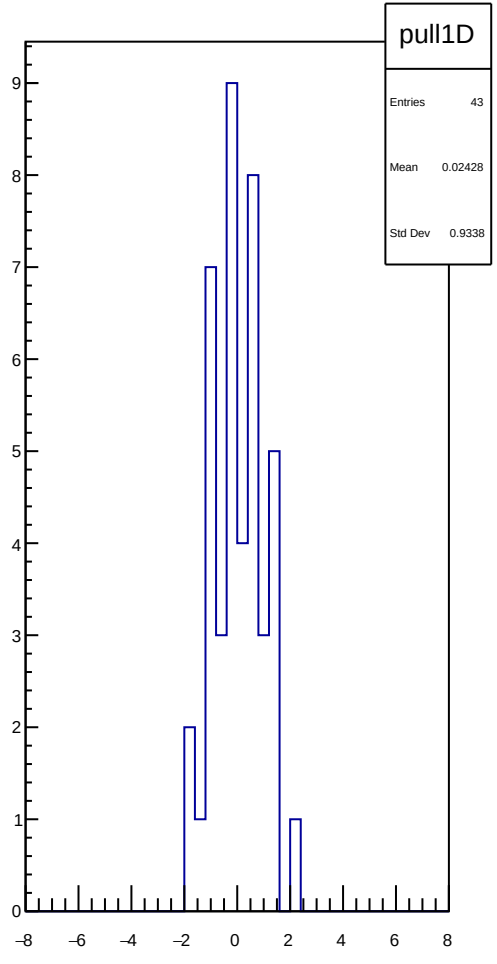

pull1D
Entries 43
Mean 0.02428
Std Dev 0.9338

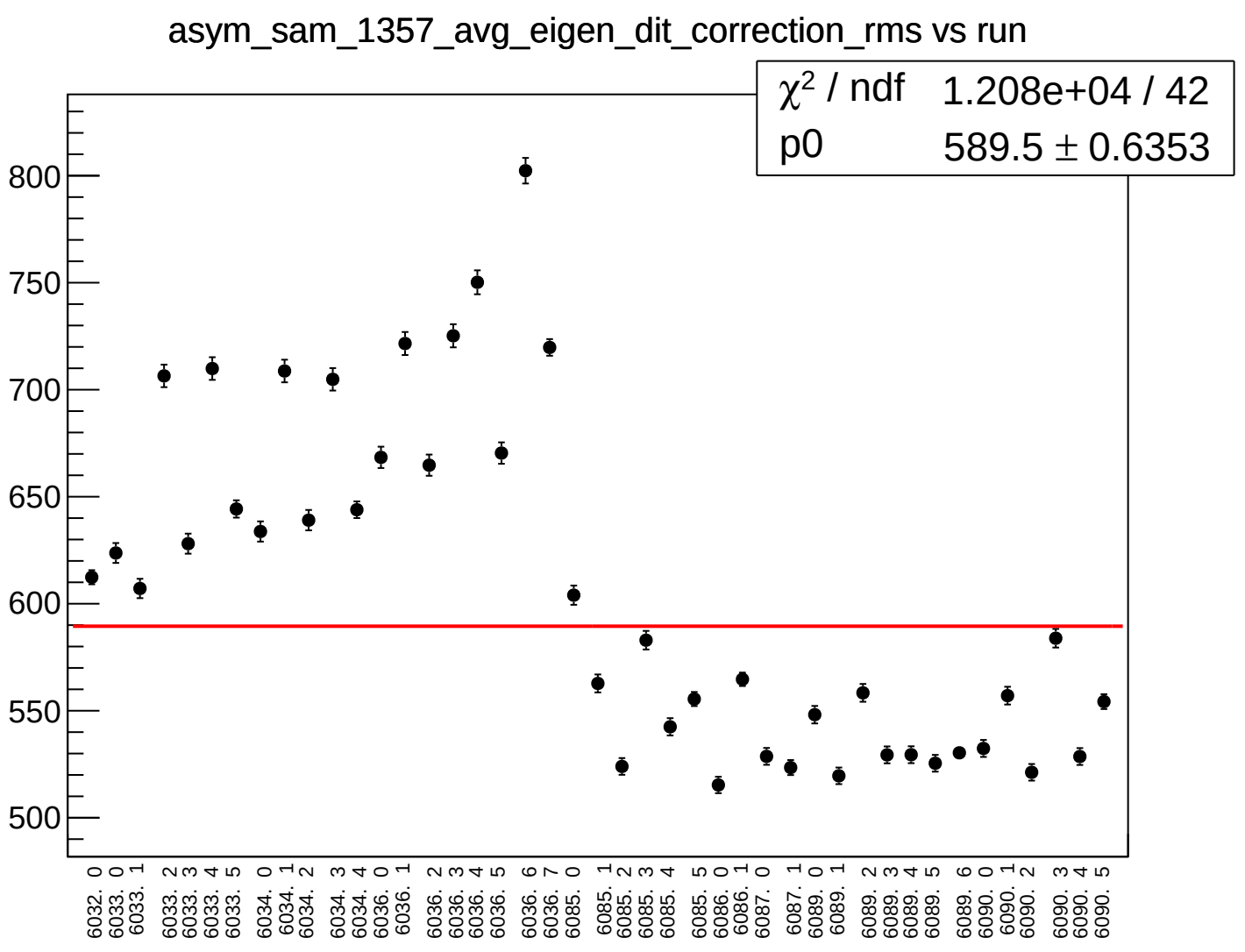

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1.208e+04 / 42
p0 589.5 ± 0.6353
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

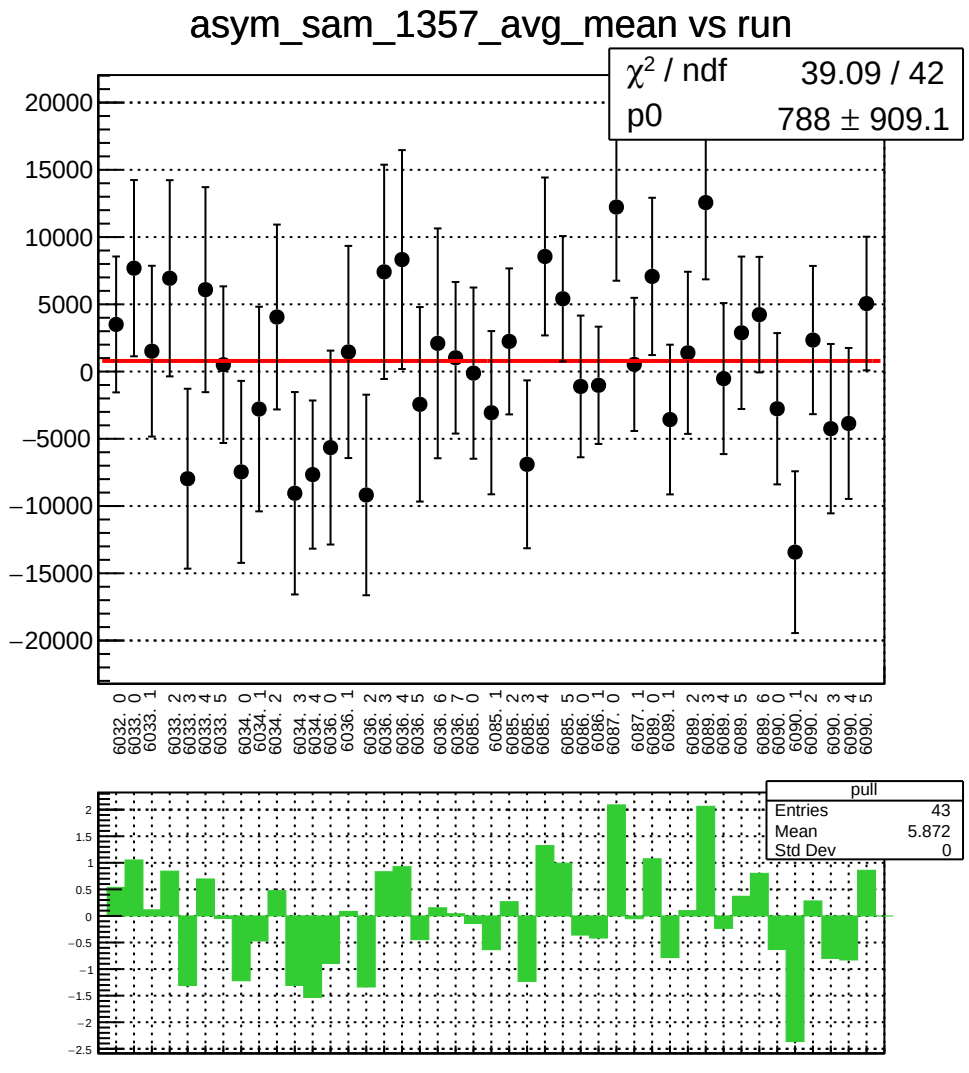

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 49.66 / 42
p0 114.4 ± 88.01
3000
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 78.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0182
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

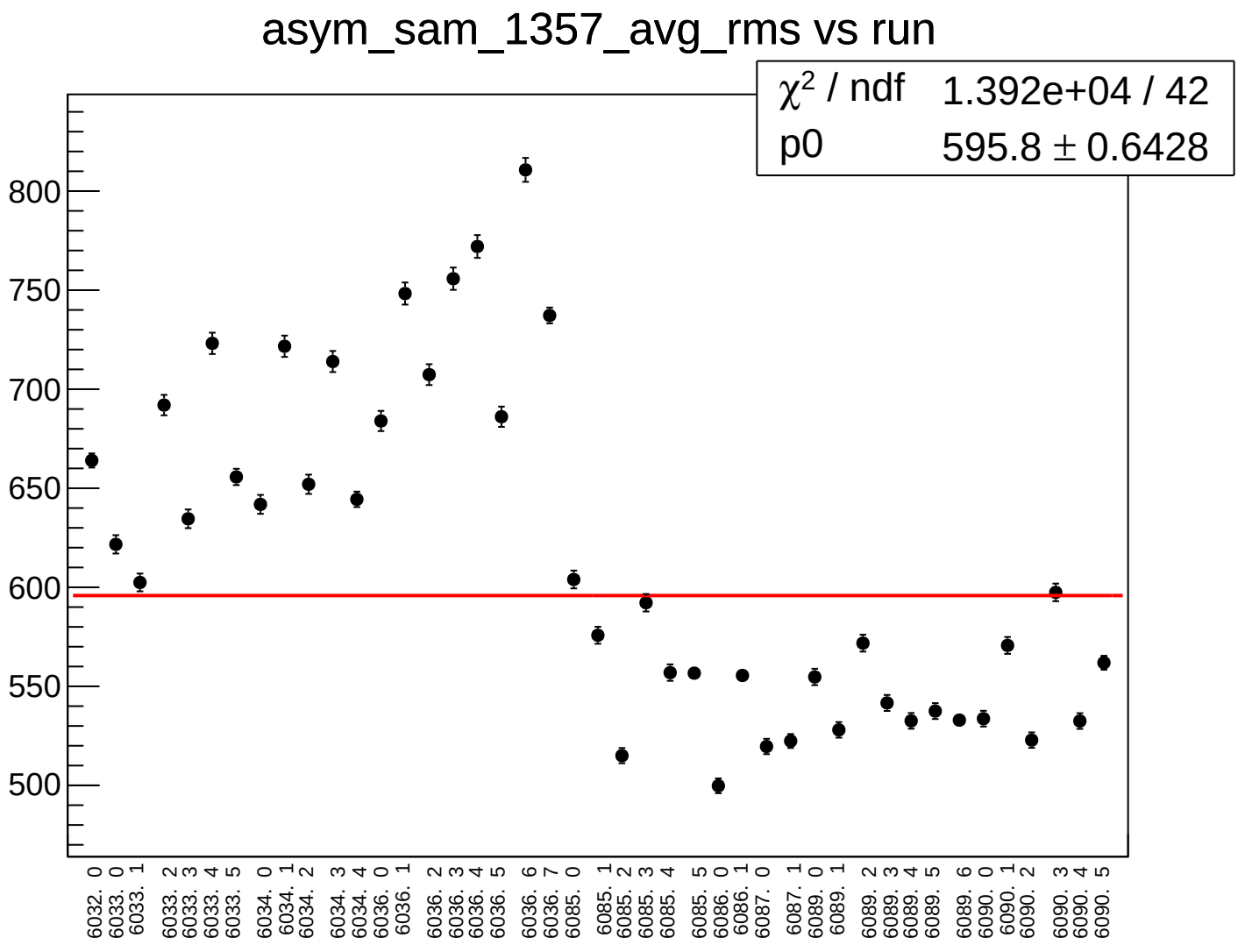

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.438e+04 / 42
p0 57.67 ± 0.06223
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

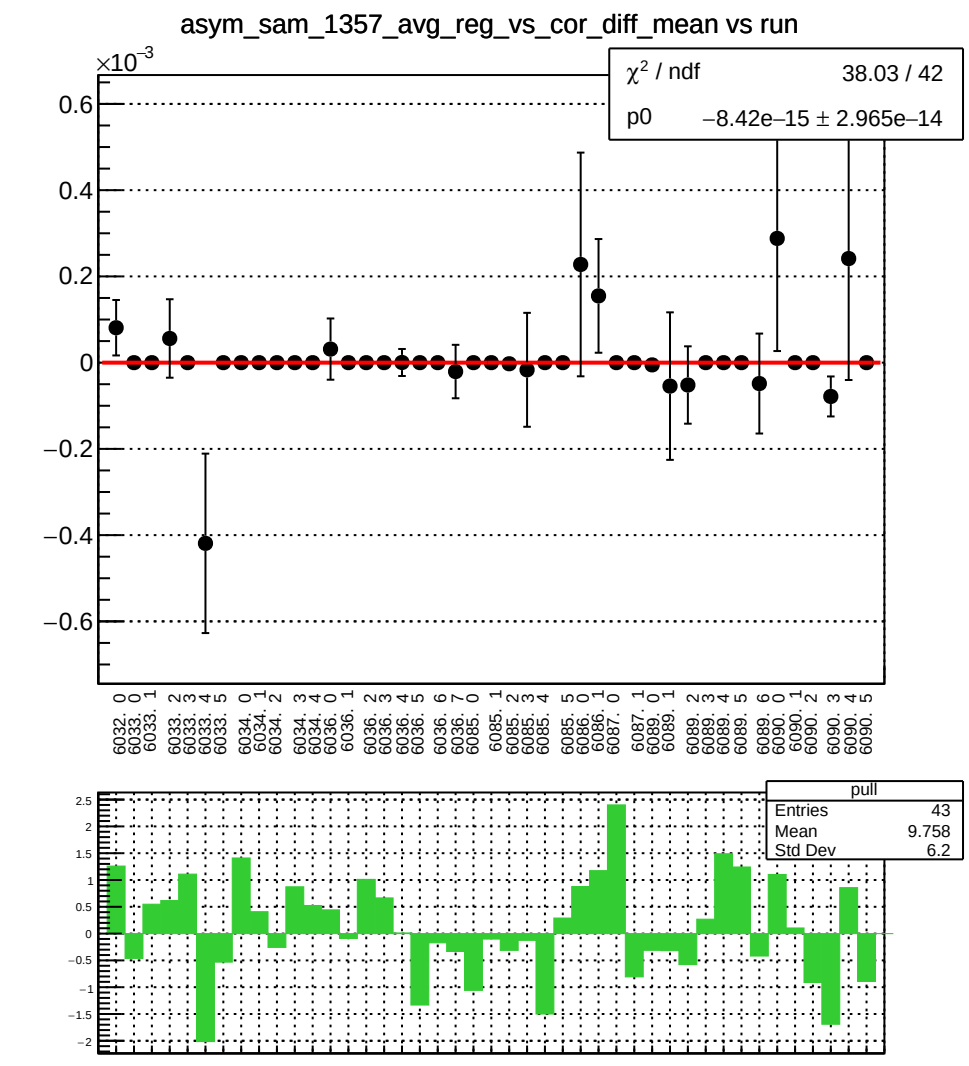

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.52 / 42
p0 −684.4 ± 898.4
pull
Entries 43
Mean 2.329
Std Dev 0

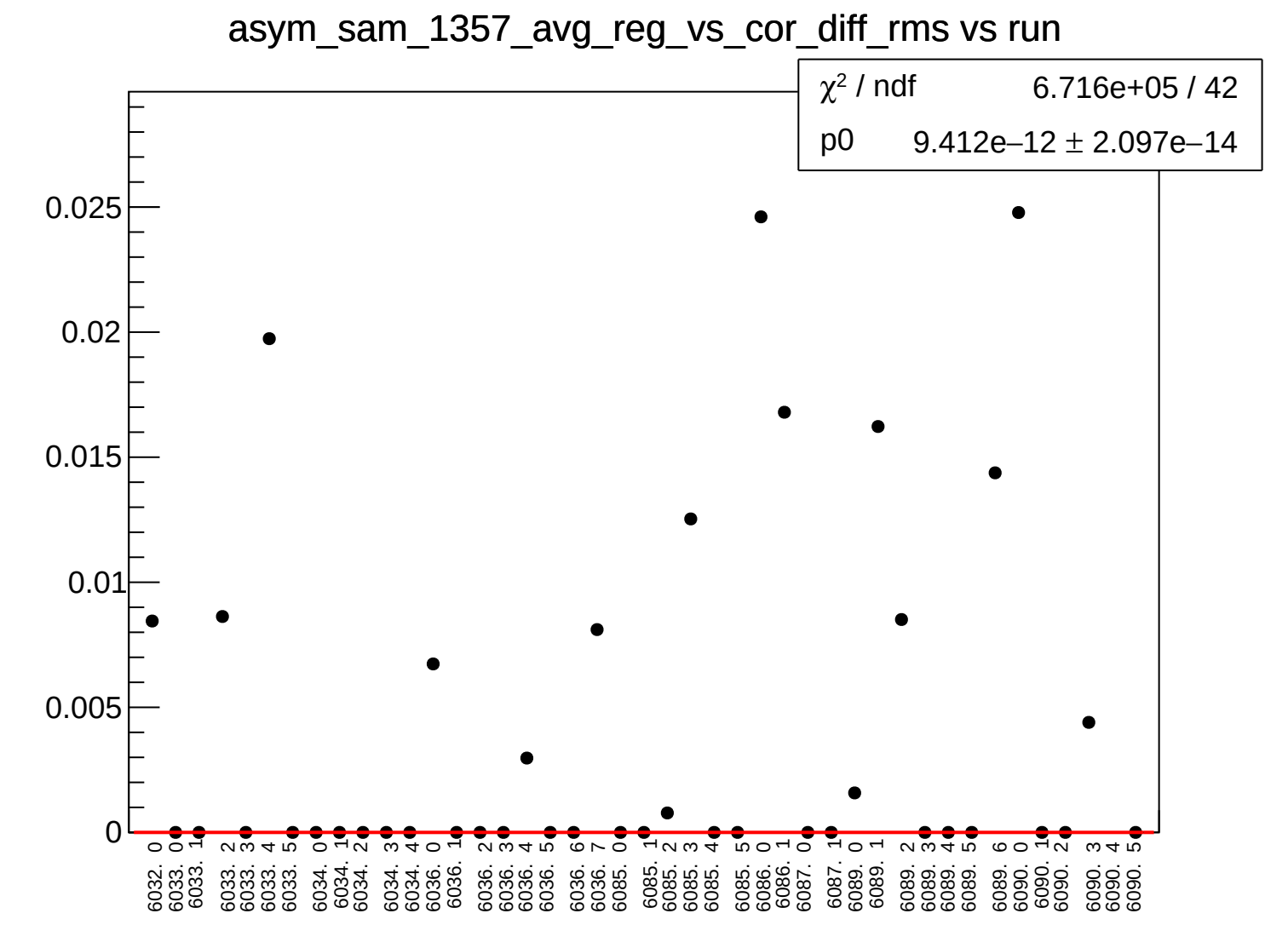

pull1D
Entries 43
Mean 0.02428
Std Dev 0.9338

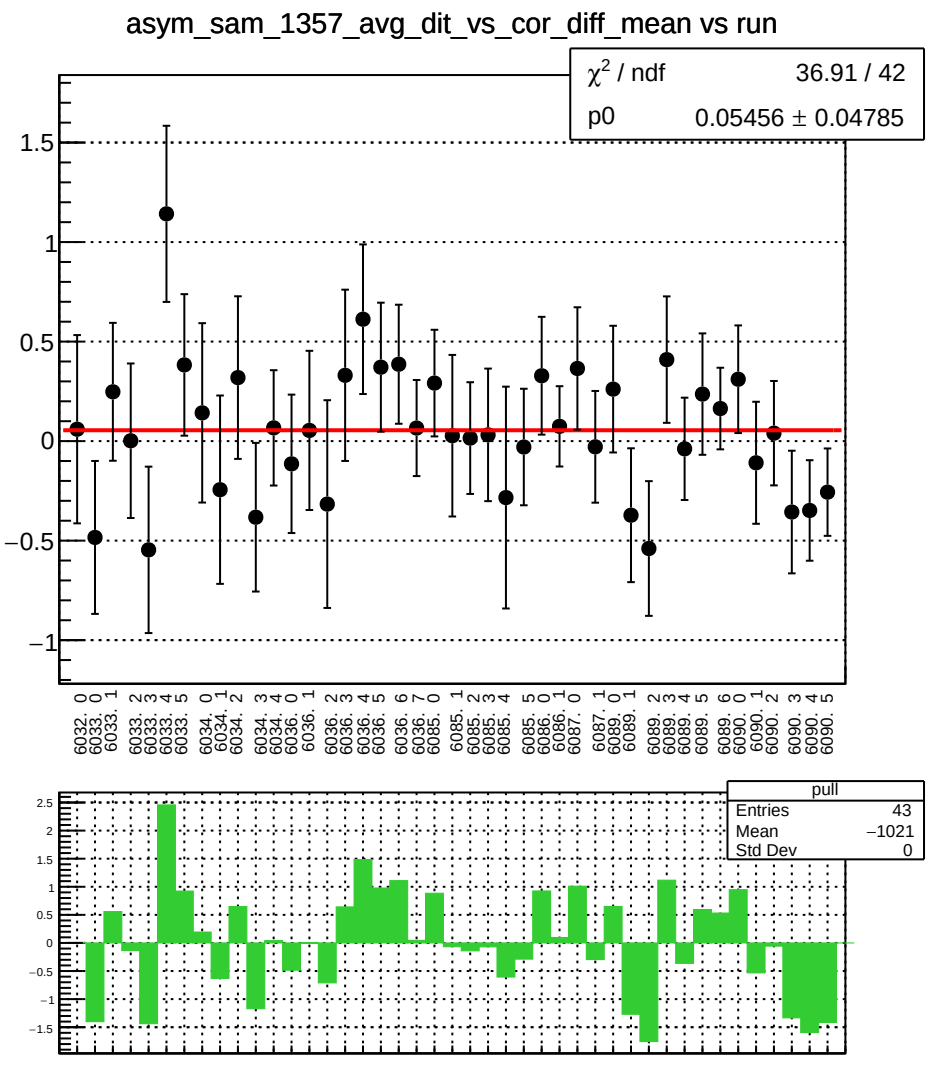

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.208e+04 / 42
p0 589.5 ± 0.6353
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

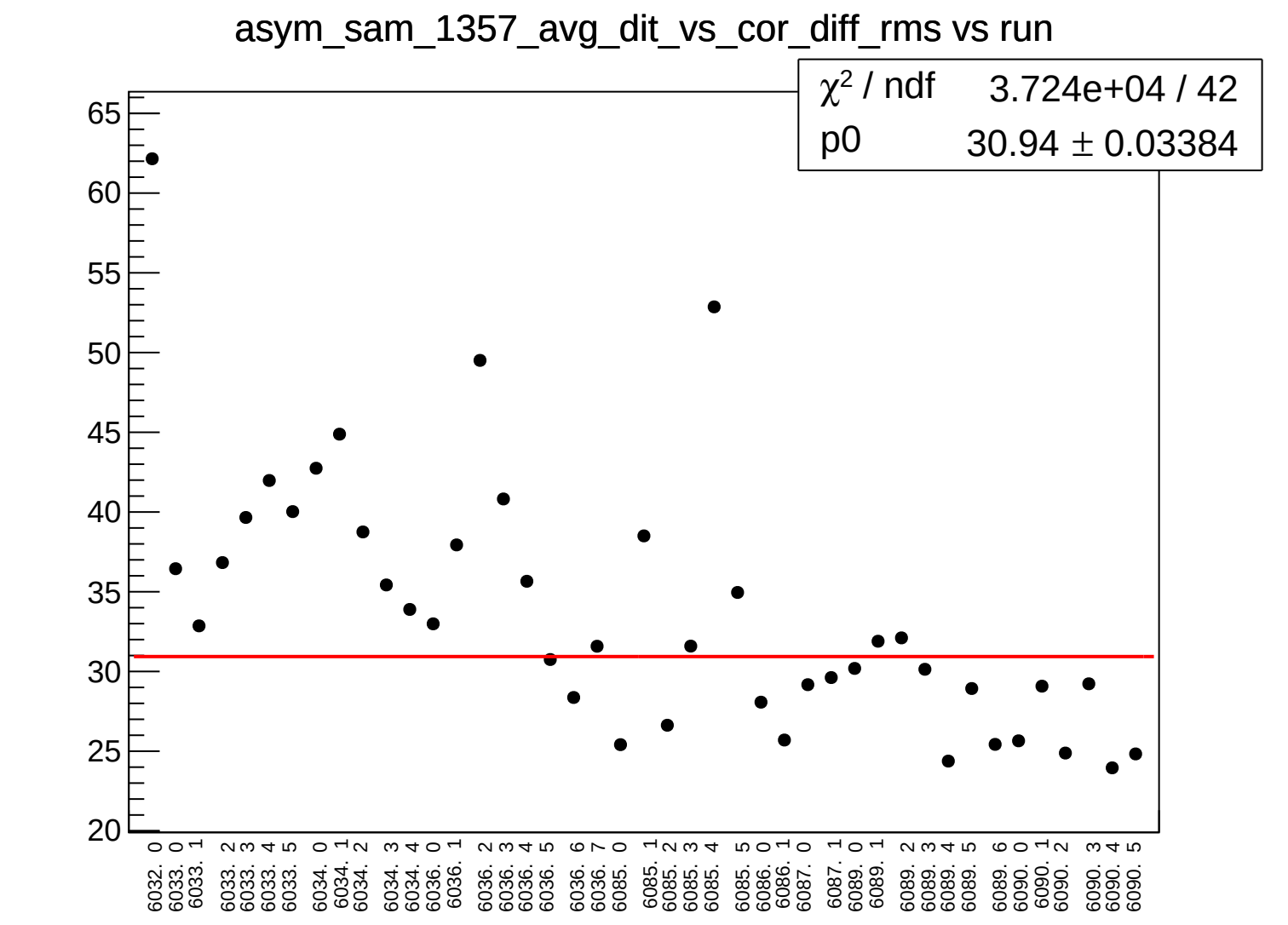

asym_sam_1357_avg_mean vs run
χ² / ndf 39.09 / 42
p0 788 ± 909.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 5.872
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02447
Std Dev 0.9531
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

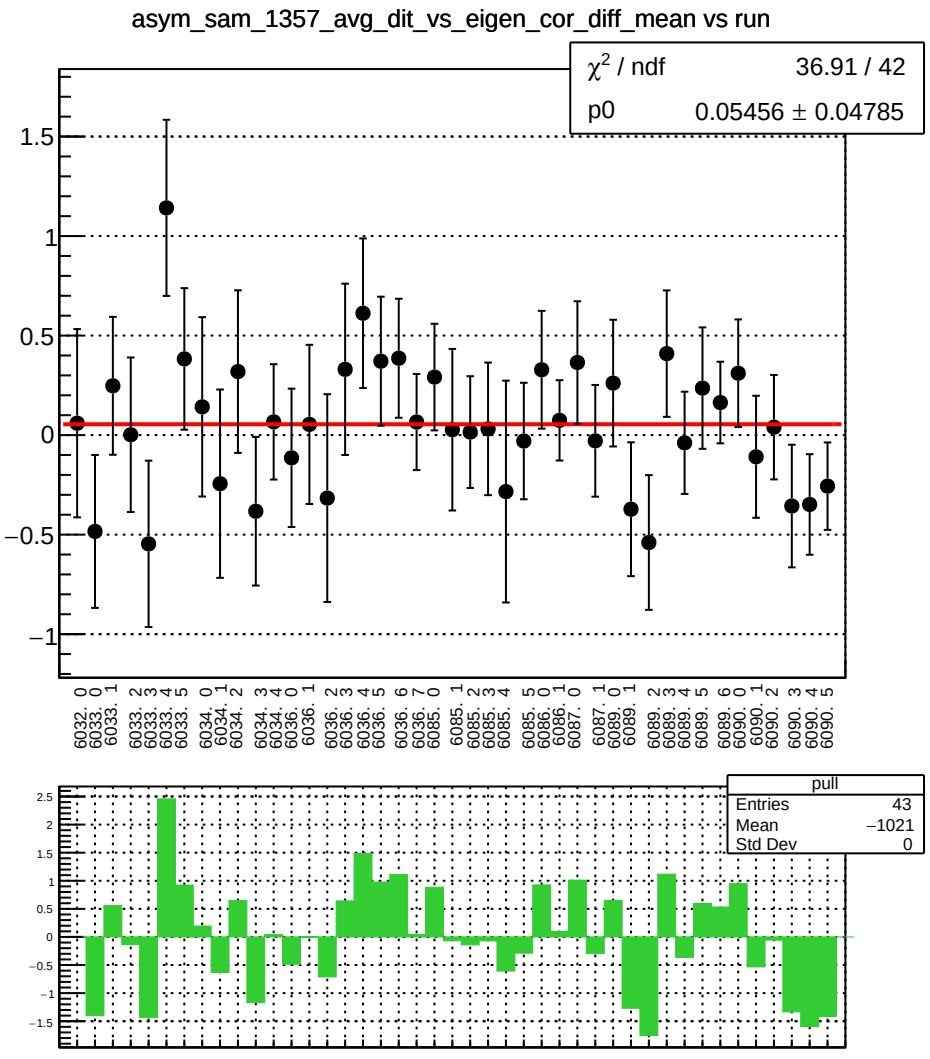

asym_sam_1357_avg_rms vs run
χ² / ndf 1.392e+04 / 42
p0 595.8 ± 0.6428
800
750
700
650
600
550
500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

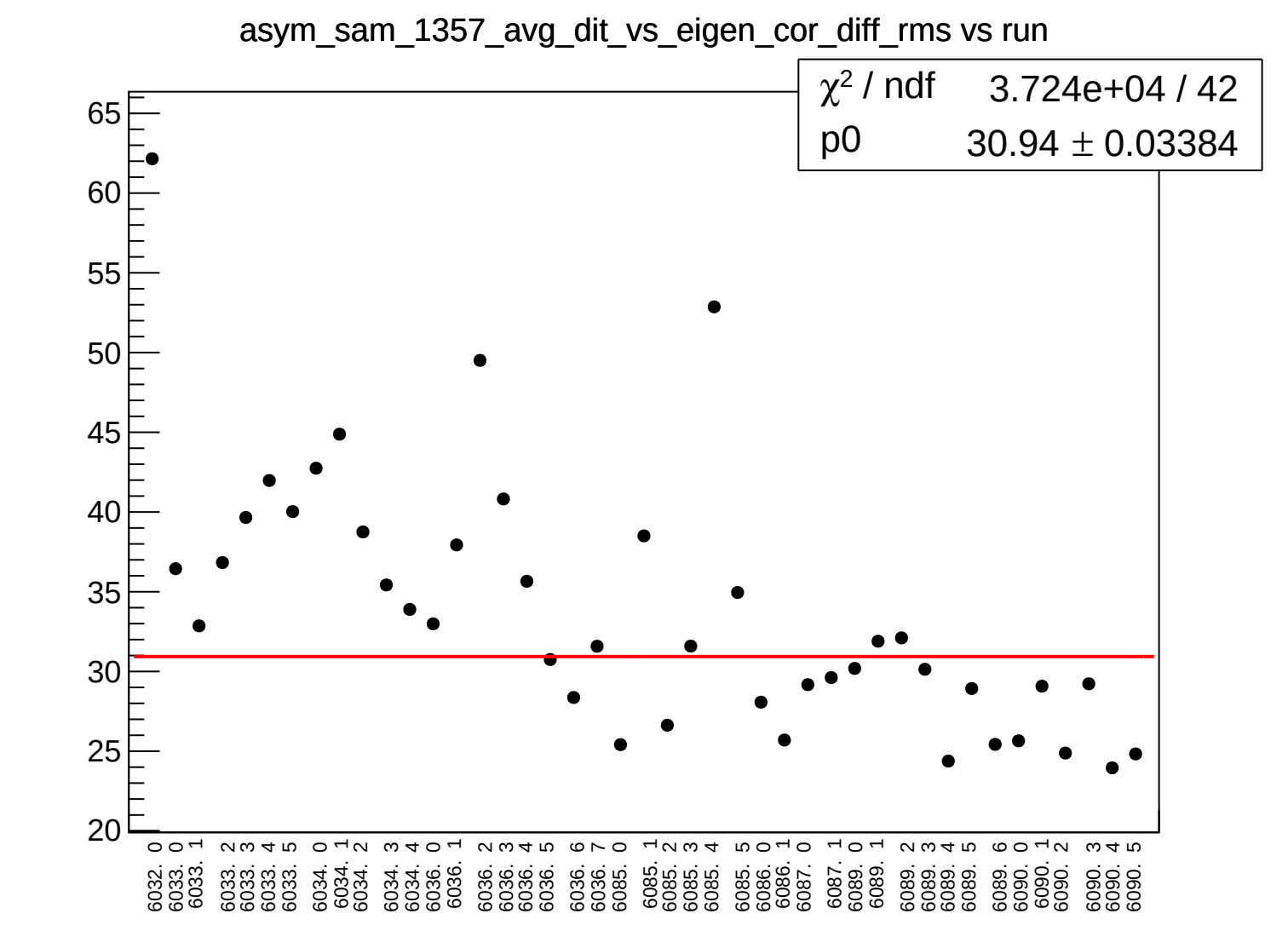

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 38.03 / 42
p0 −8.42e−15 ± 2.965e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.758
Std Dev 6.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1039
Std Dev 0.9347
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

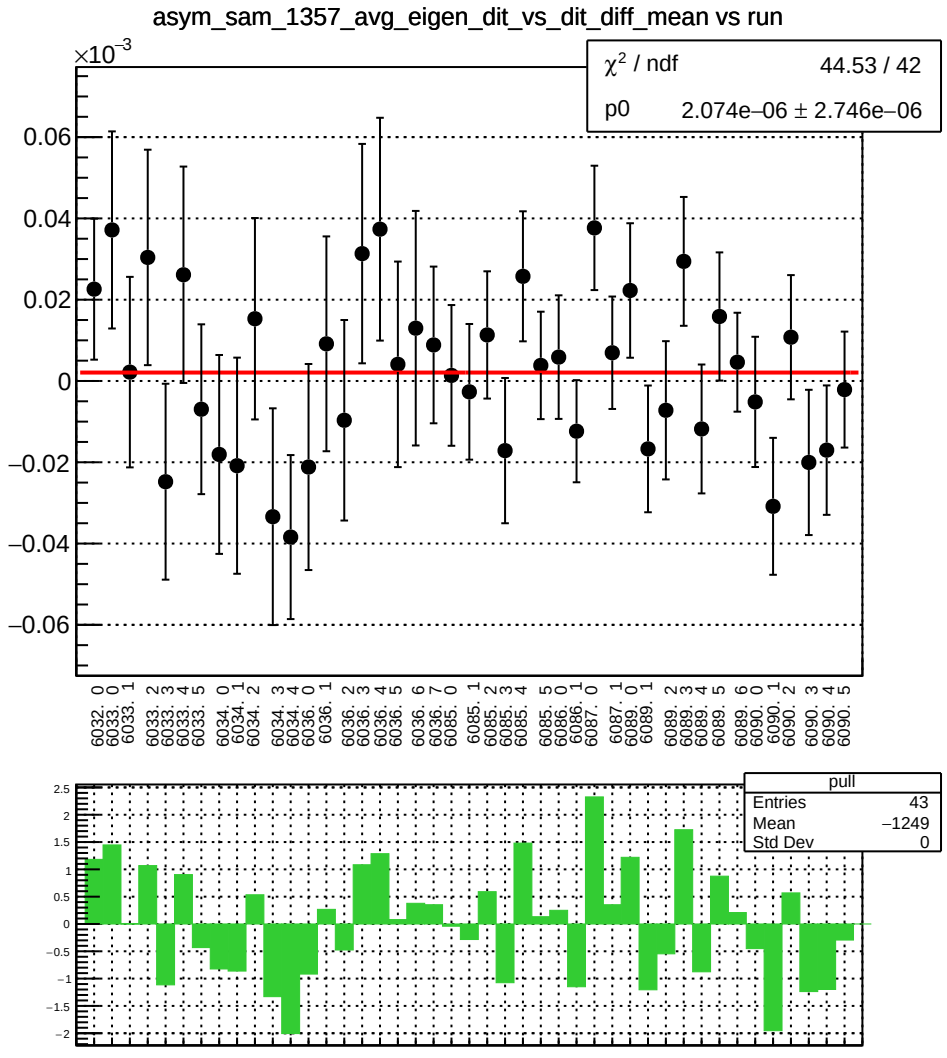

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.716e+05 / 42
p0 9.412e−12 ± 2.097e−14
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

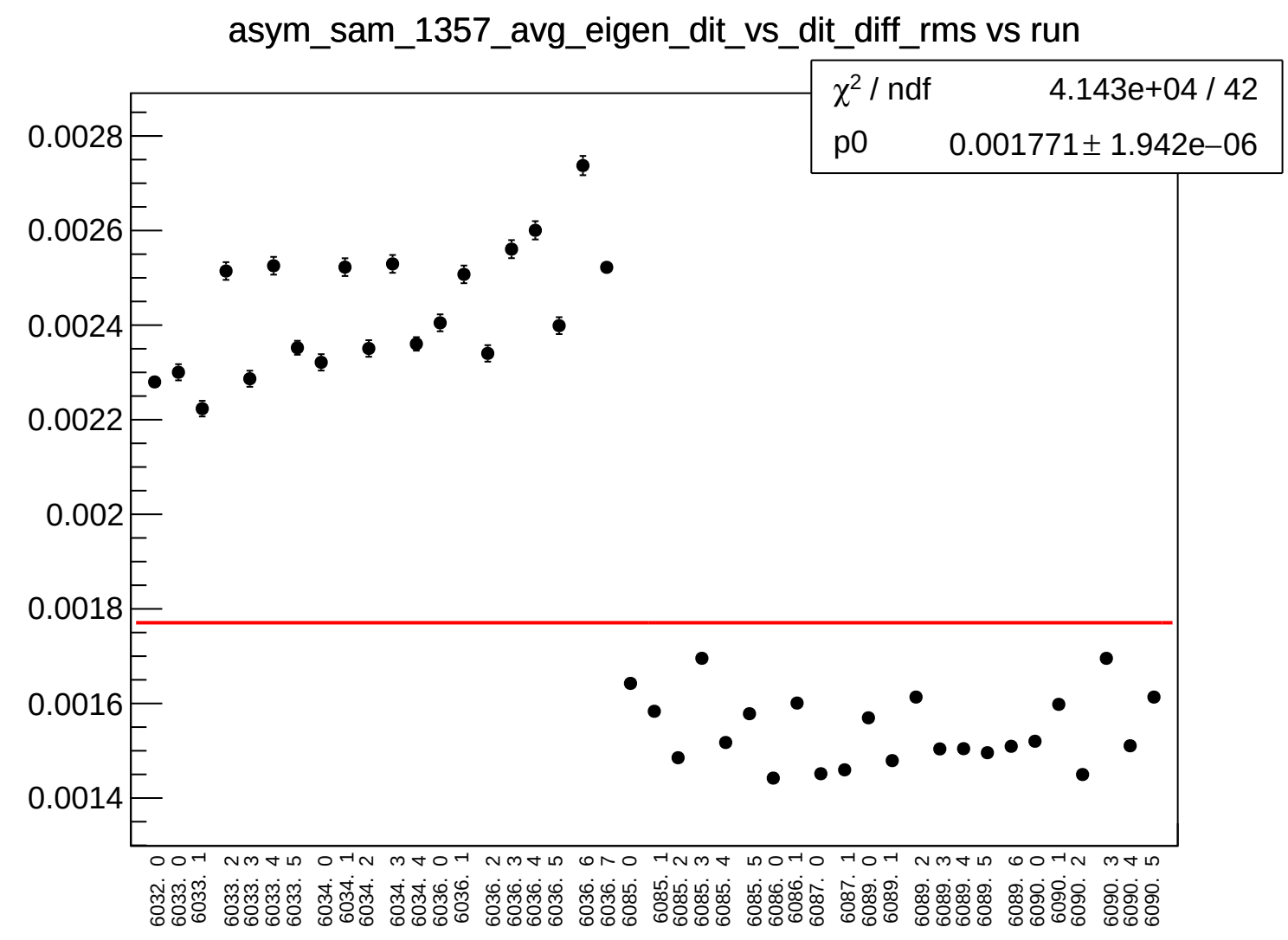

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.91 / 42
p0 0.05456 ± 0.04785
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1021
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001906
Std Dev 0.9264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

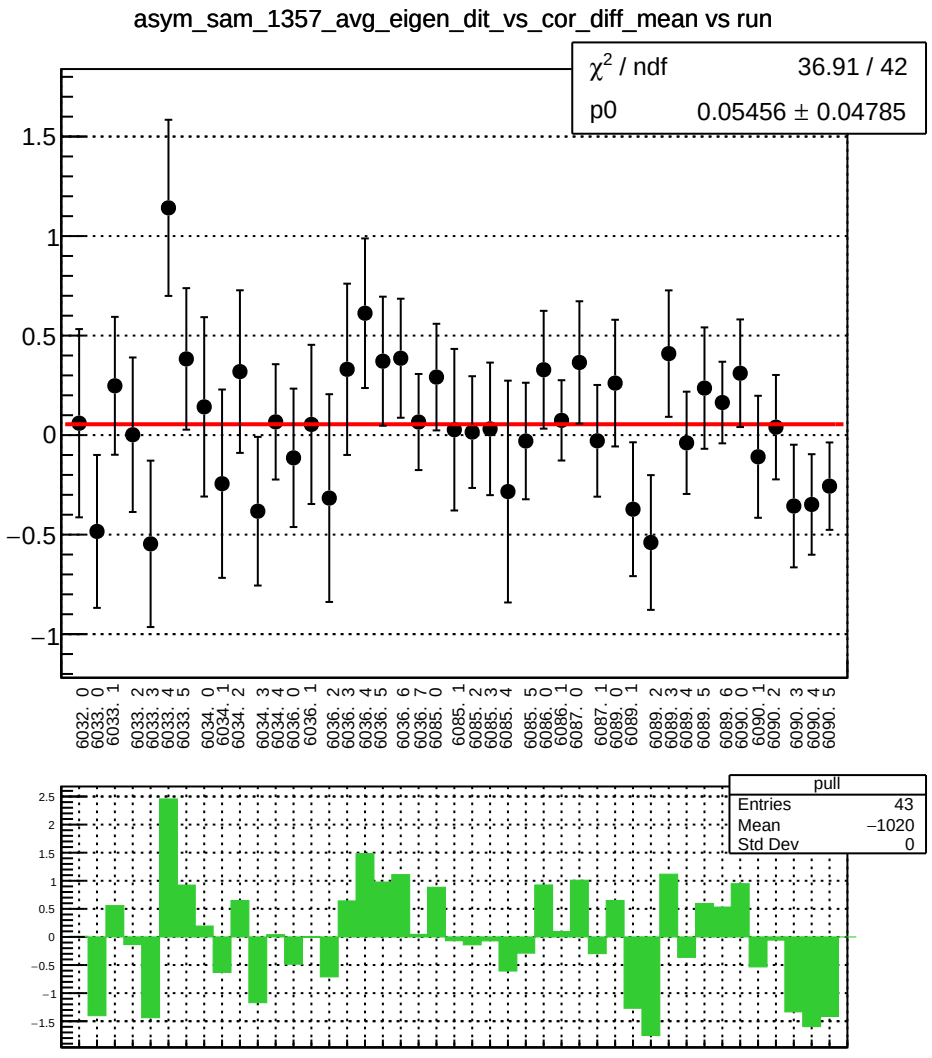

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.724e+04 / 42
p0 30.94 ± 0.03384
65
60
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

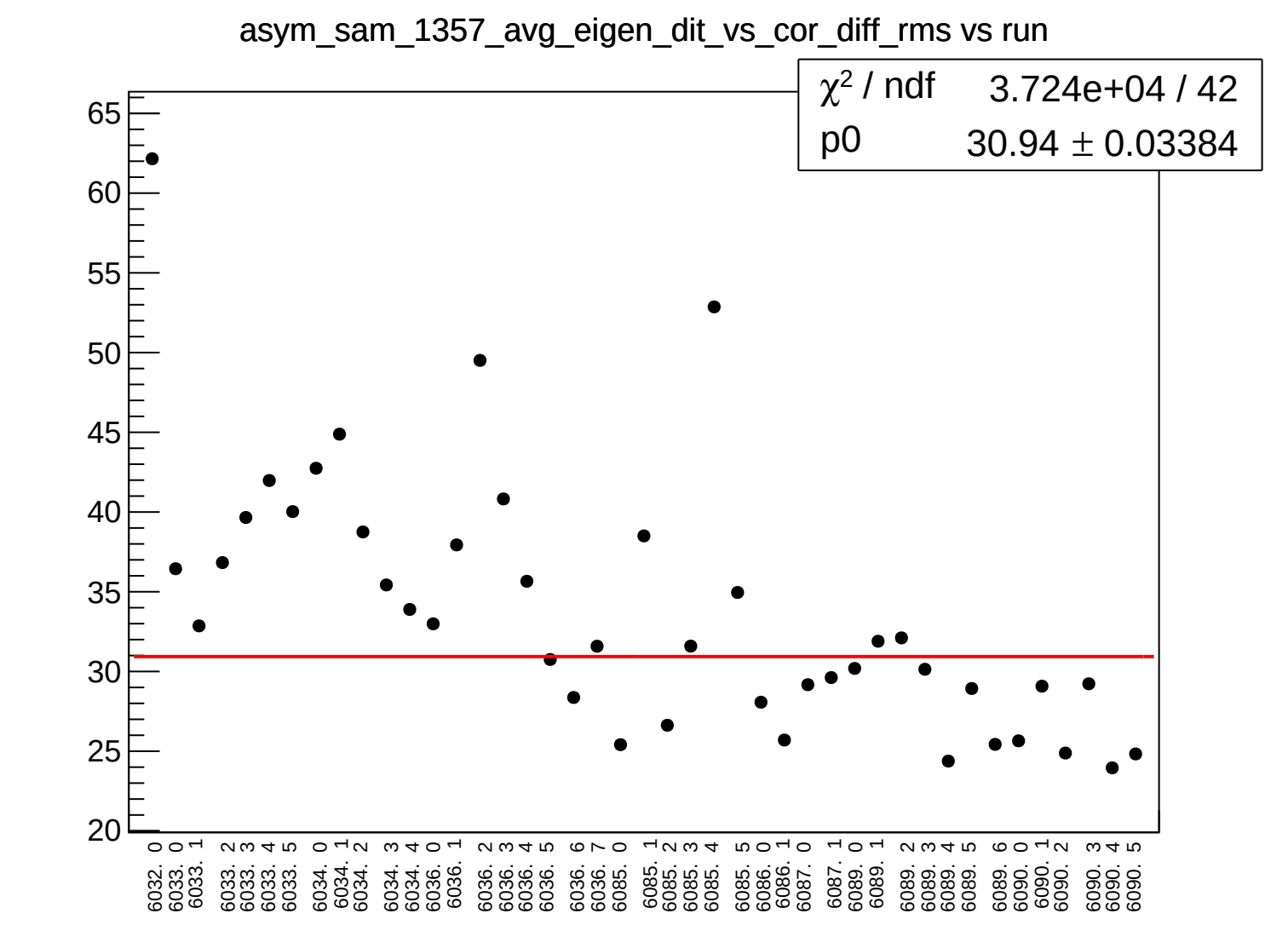

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.91 / 42
p0 0.05456 ± 0.04785
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1021
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001906
Std Dev 0.9264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

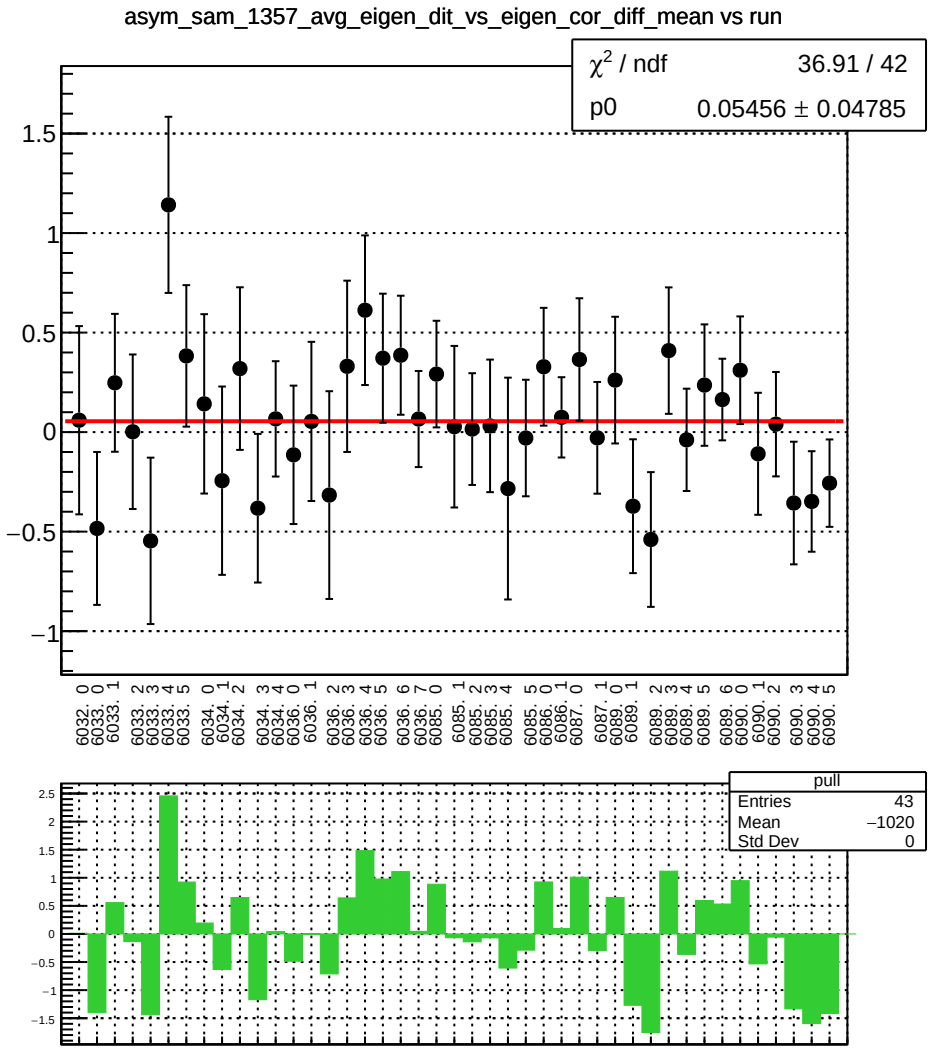

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.724e+04 / 42
p0 30.94 ± 0.03384
65
60
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

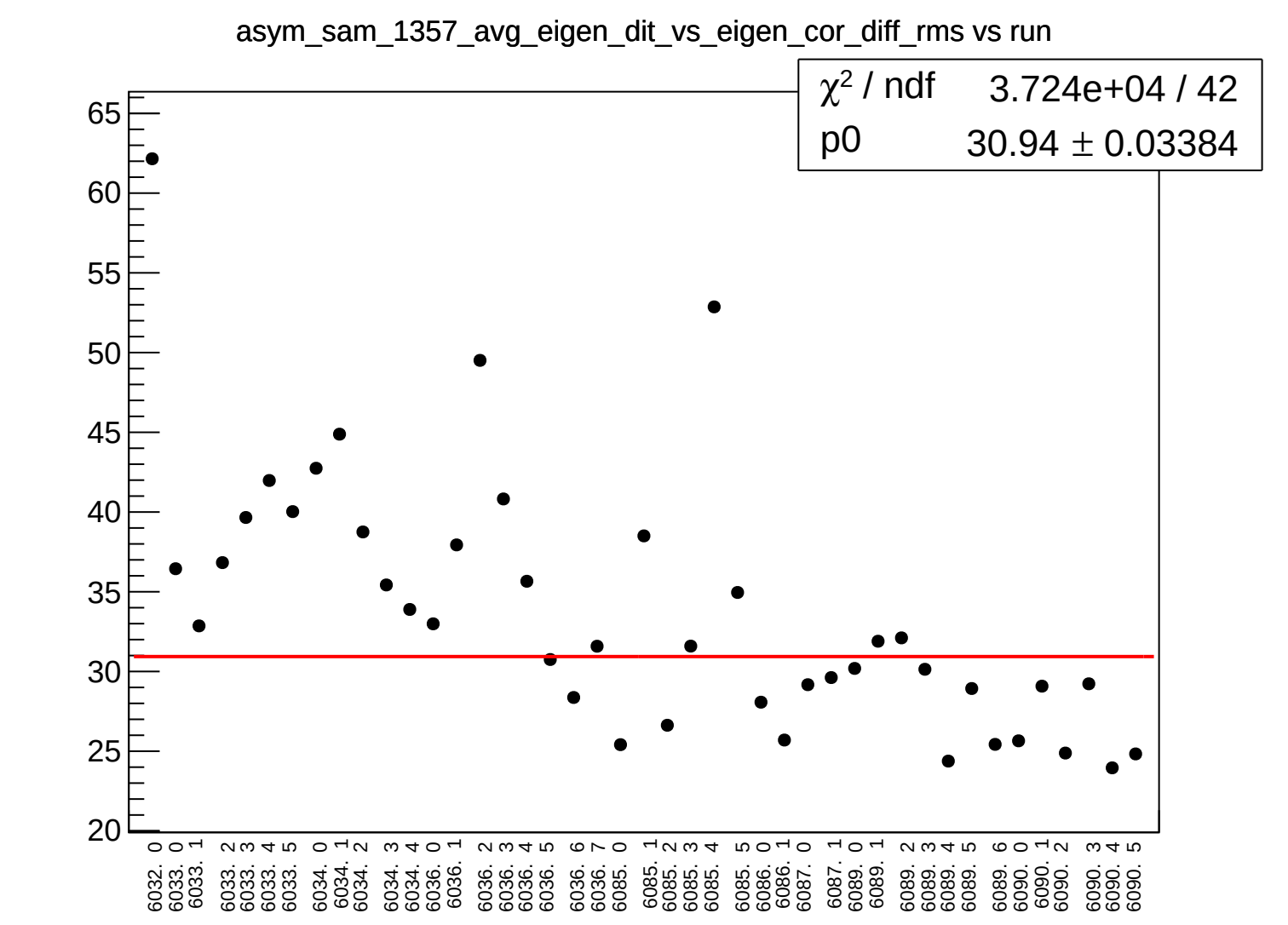

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.53 / 42
p0 2.074e−06 ± 2.746e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1249
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.00121
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

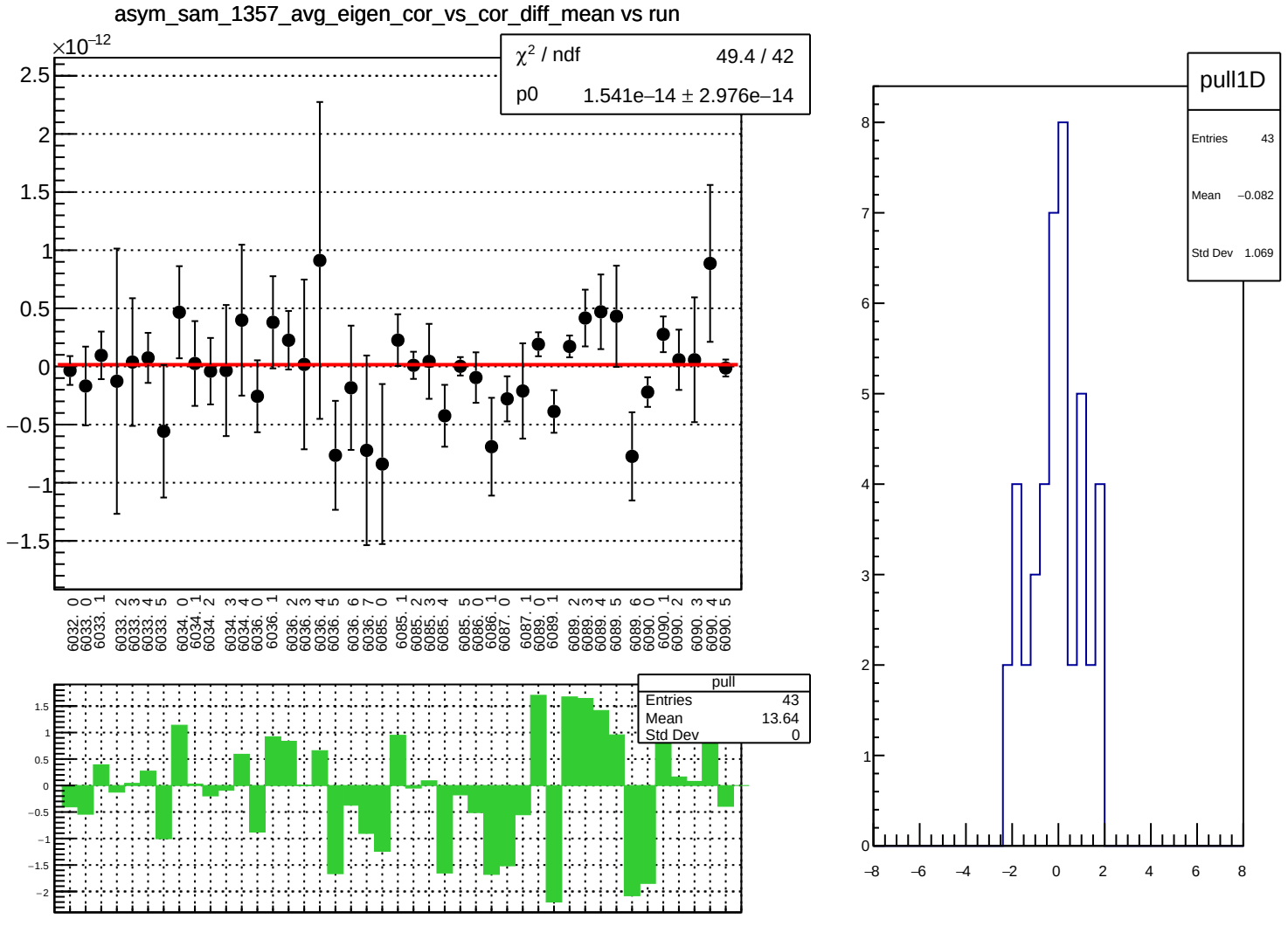

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.143e+04 / 42
p0 0.001771 ± 1.942e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

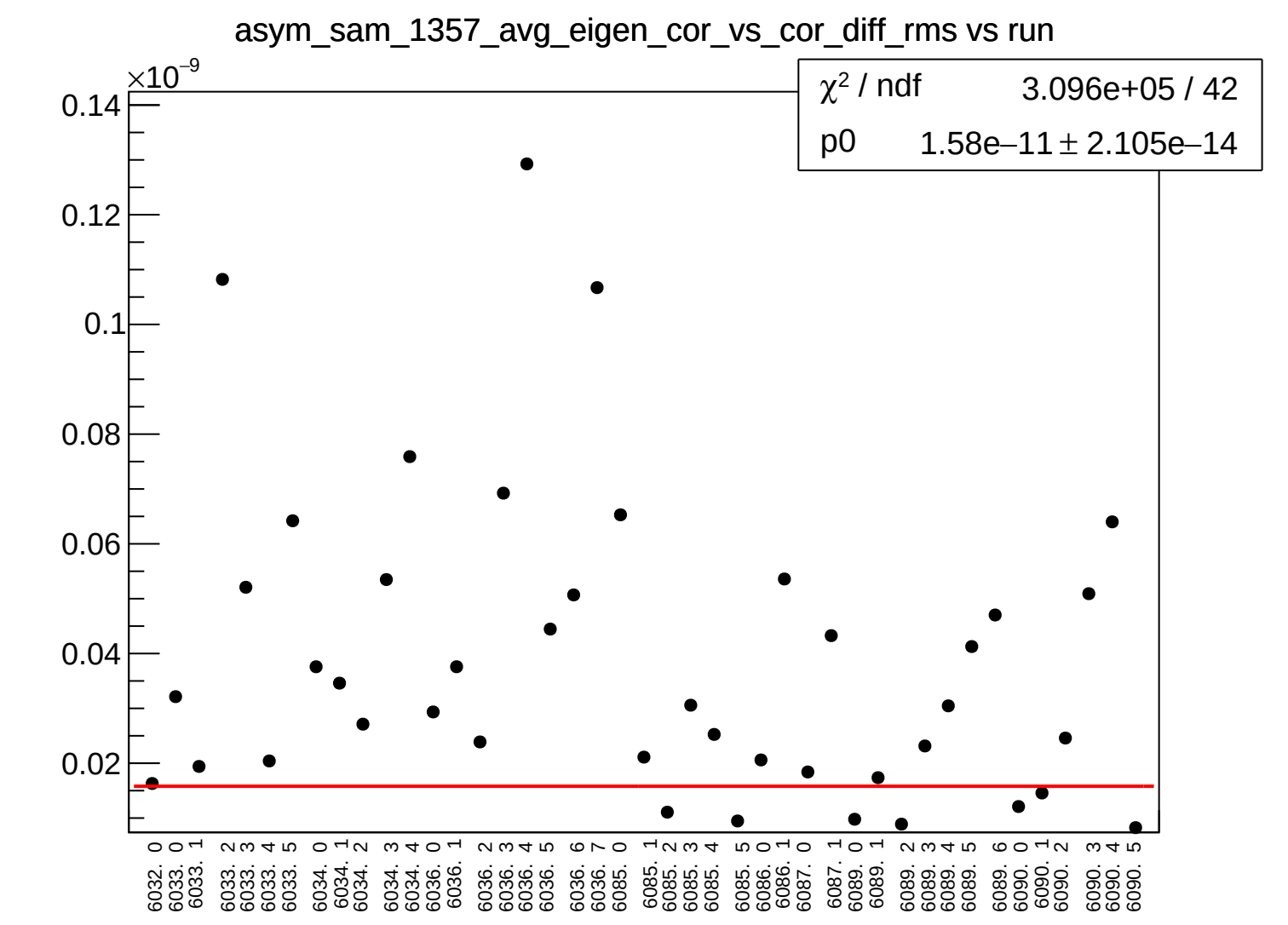

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.91 / 42
p0 0.05456 ± 0.04785
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1020
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001907
Std Dev 0.9264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

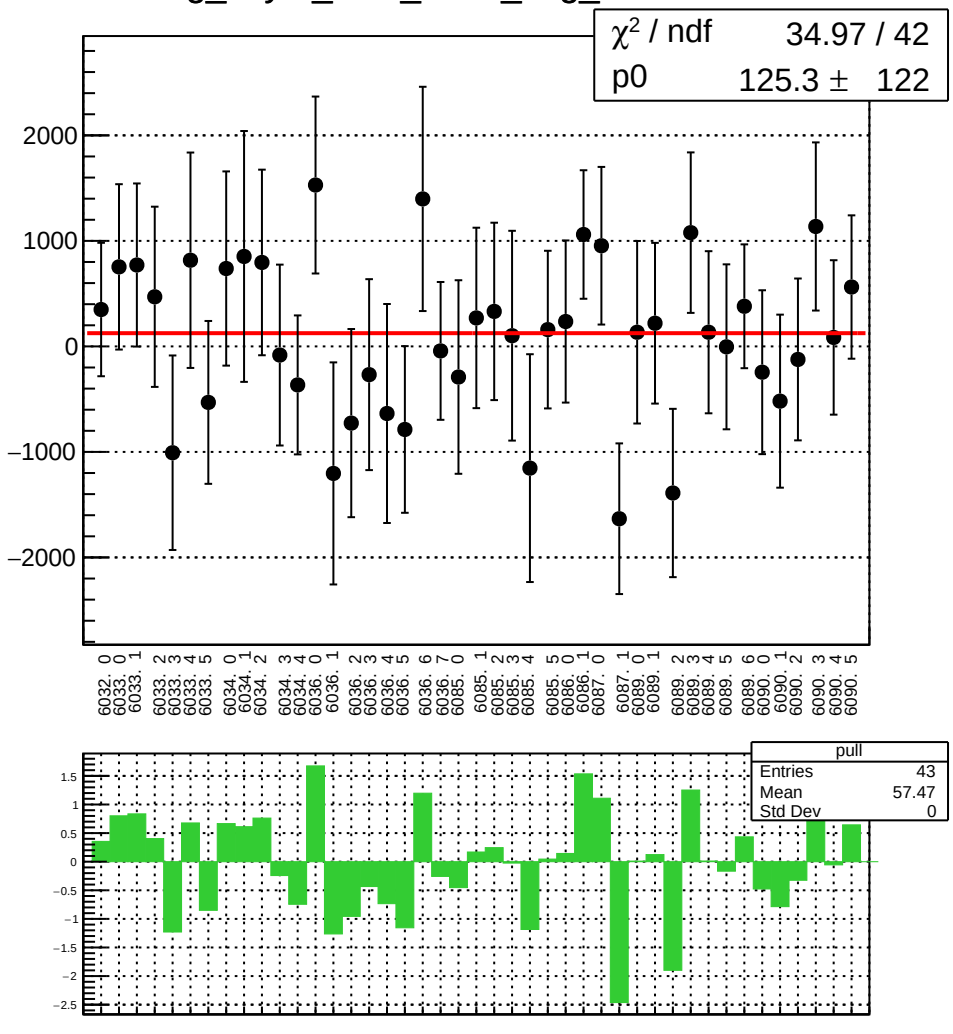

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.724e+04 / 42
p0 30.94 ± 0.03384
65
60
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

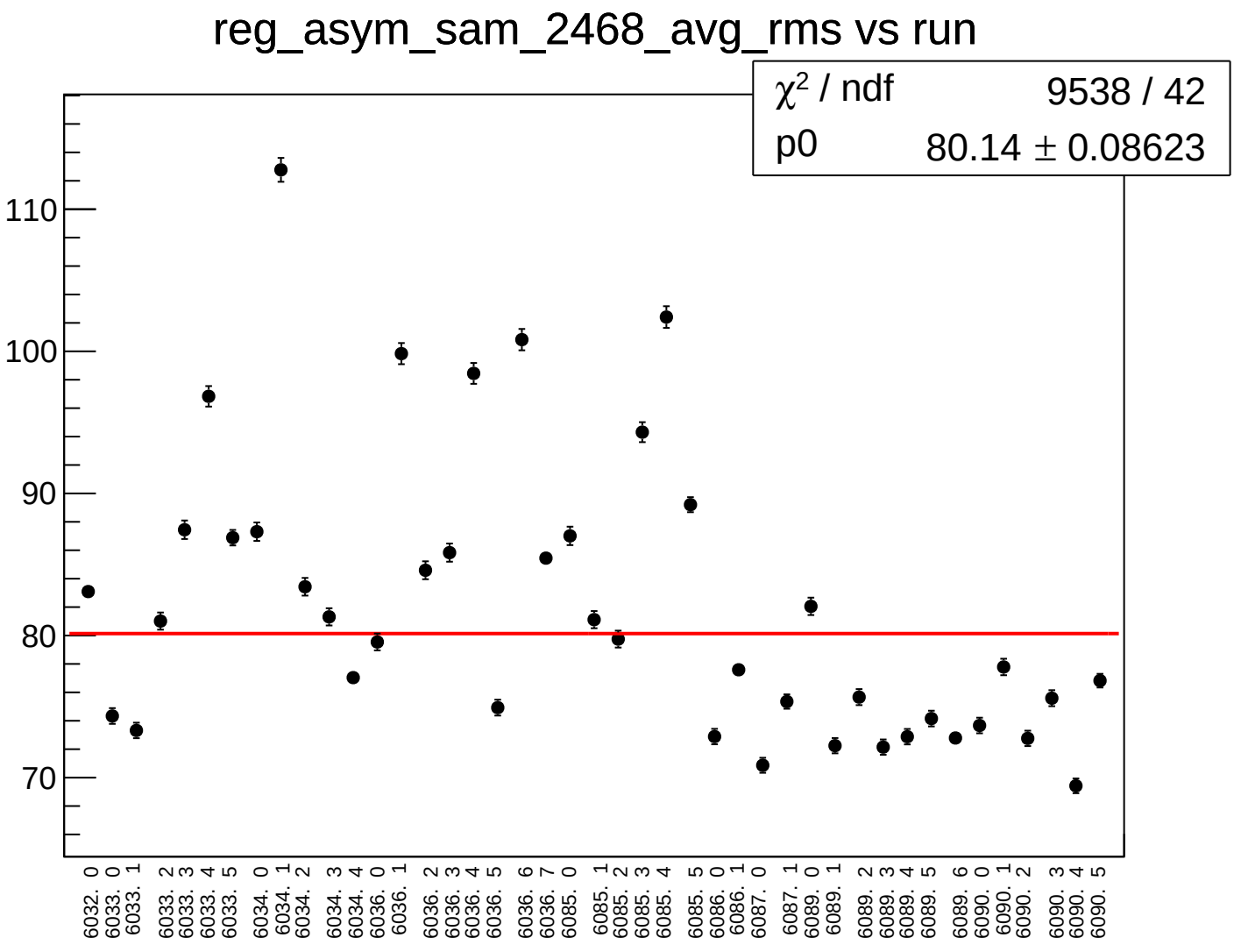

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.91 / 42
p0 0.05456 ± 0.04785
1.5
1
0.5
0
−0.5
−1
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1020
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001907
Std Dev 0.9264
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

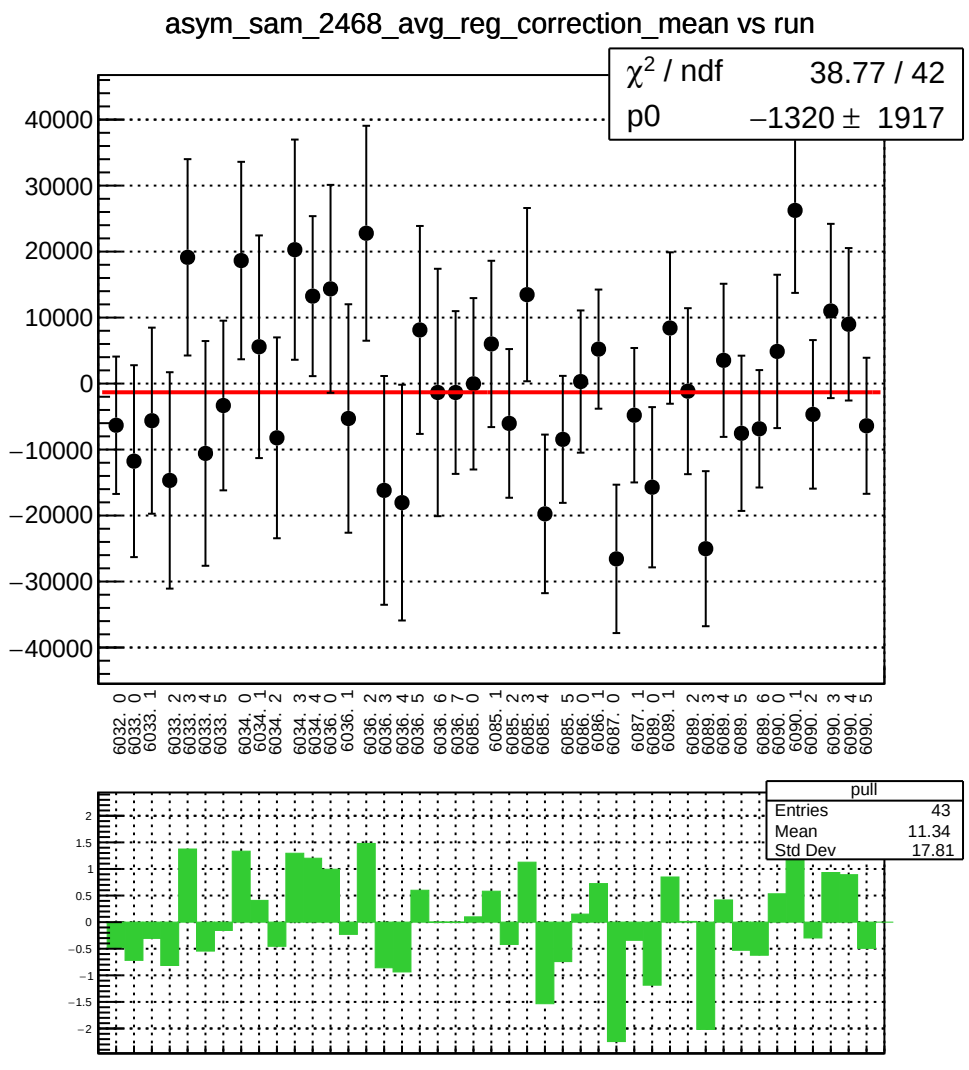

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.724e+04 / 42
p0 30.94 ± 0.03384
65
60
55
50
45
40
35
30
25
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

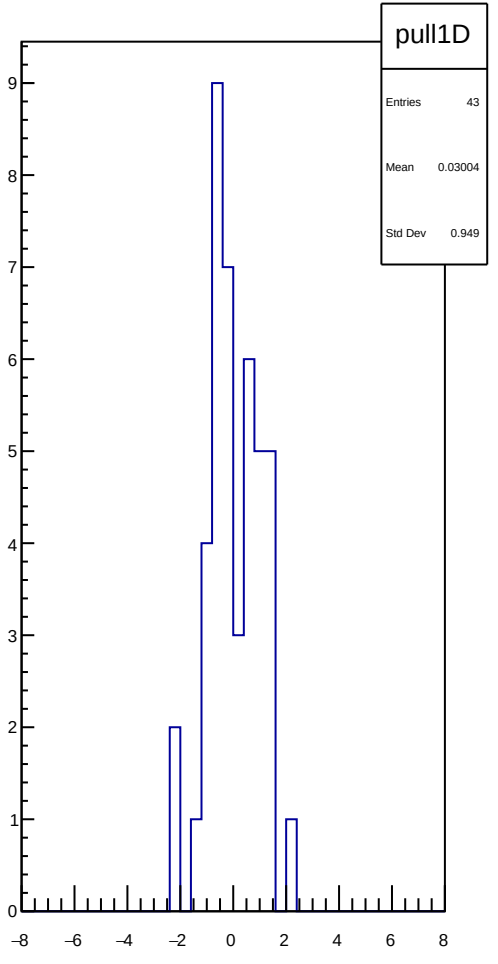

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 49.4 / 42
p0 1.541e−14 ± 2.976e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.082
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

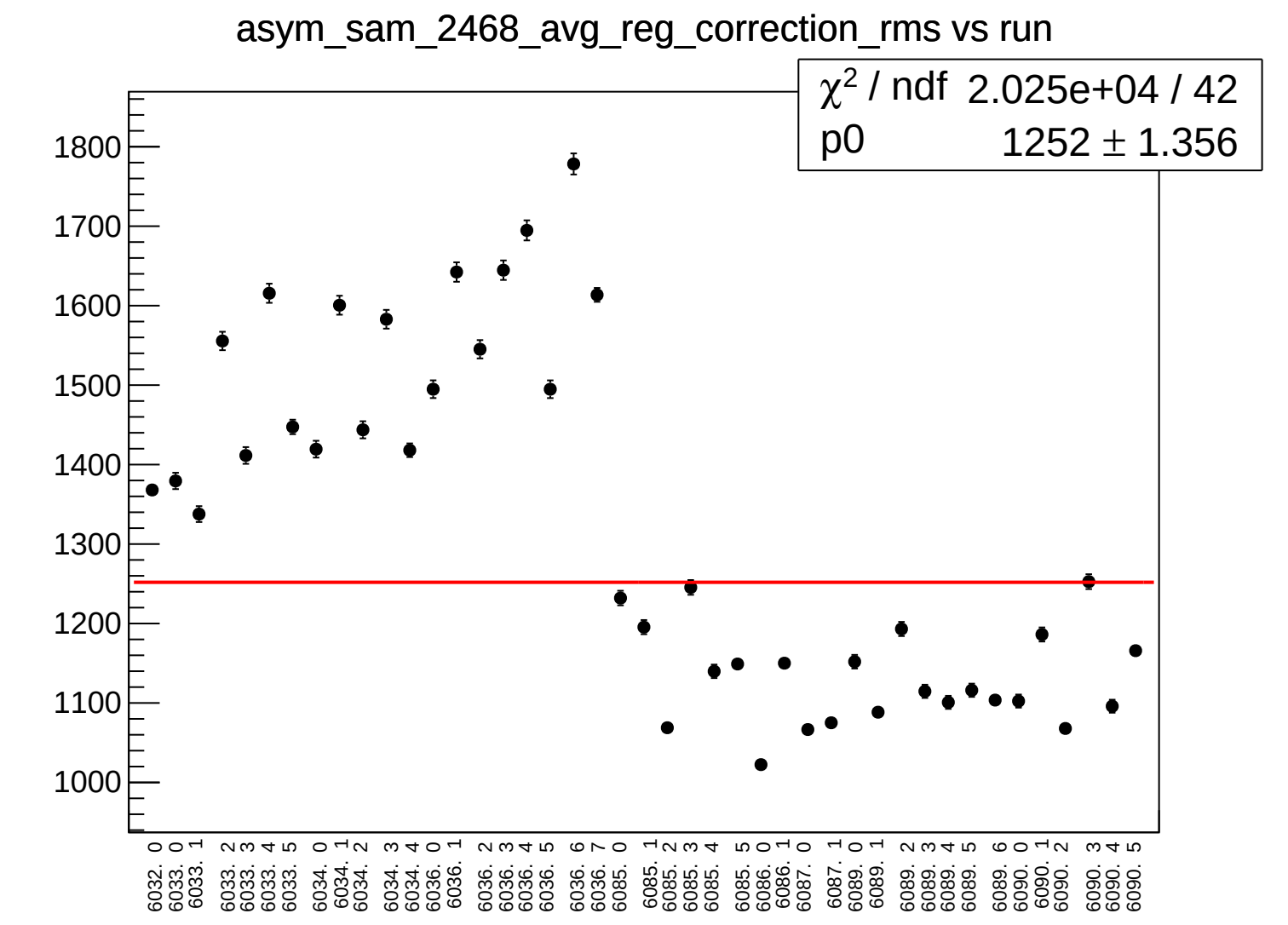

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.096e+05 / 42
p0 1.58e−11 ± 2.105e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

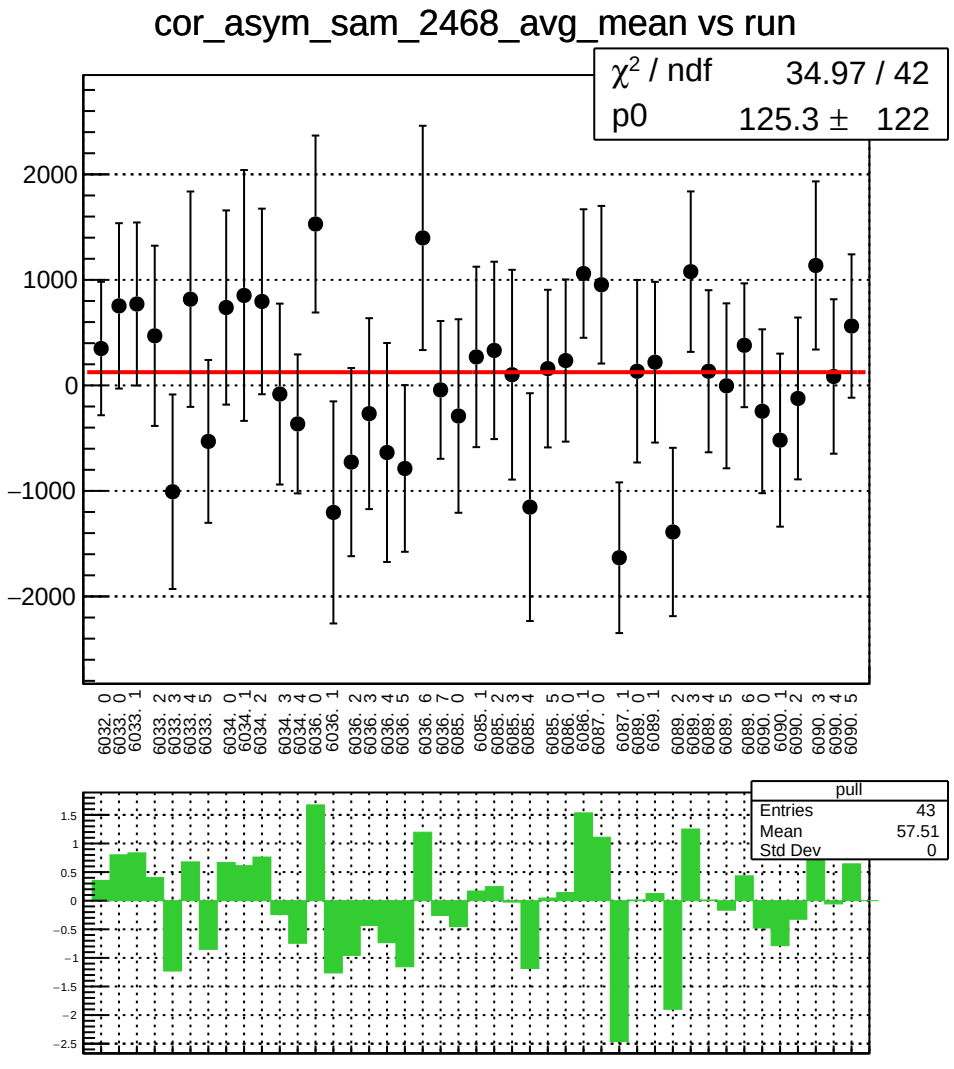

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 34.97 / 42
p0 125.3 ± 122
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01668
Std Dev 0.9016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

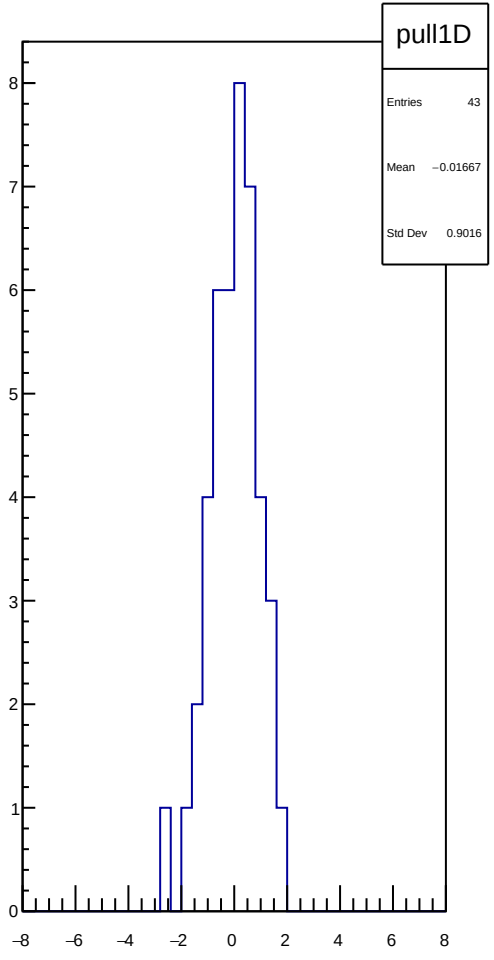

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 9538 / 42
p0 80.14 ± 0.08623
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

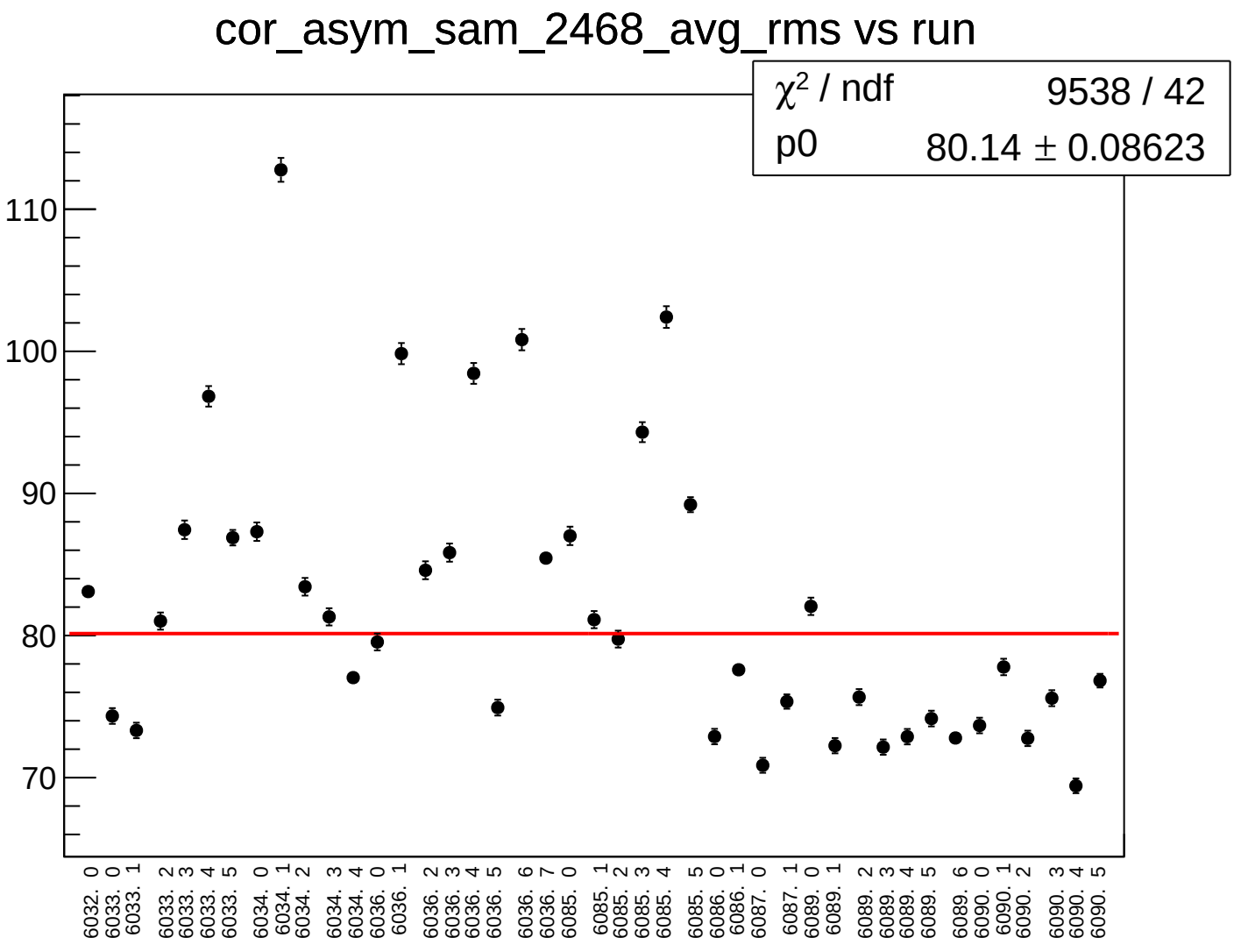

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 38.77 / 42
p0 −1320 ± 1917
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.34
Std Dev 17.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.03004
Std Dev 0.949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2.025e+04 / 42
p0 1252 ± 1.356
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 34.97 / 42
p0 125.3 ± 122
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean −0.01667
Std Dev 0.9016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 9538 / 42
p0 80.14 ± 0.08623
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
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6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
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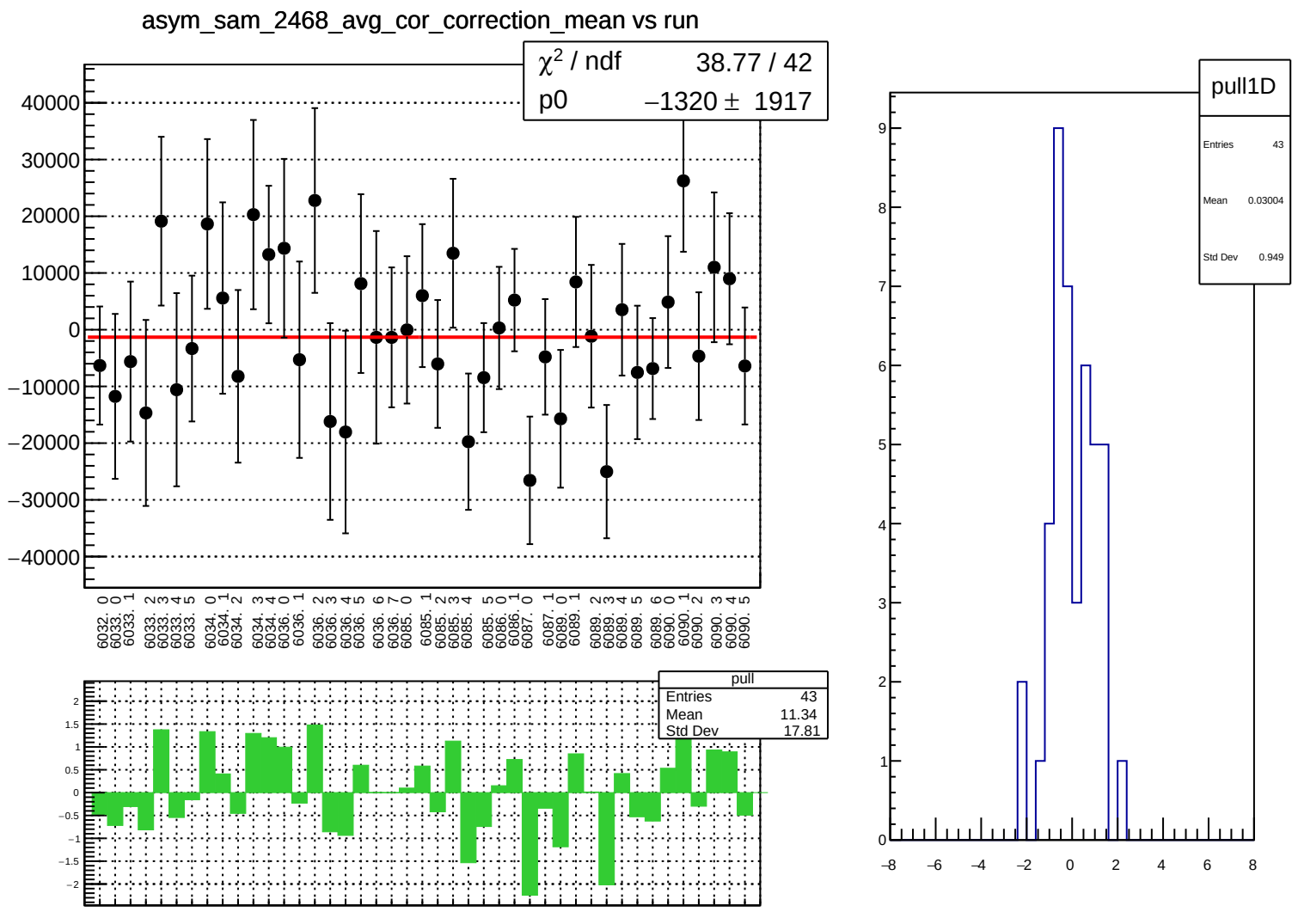
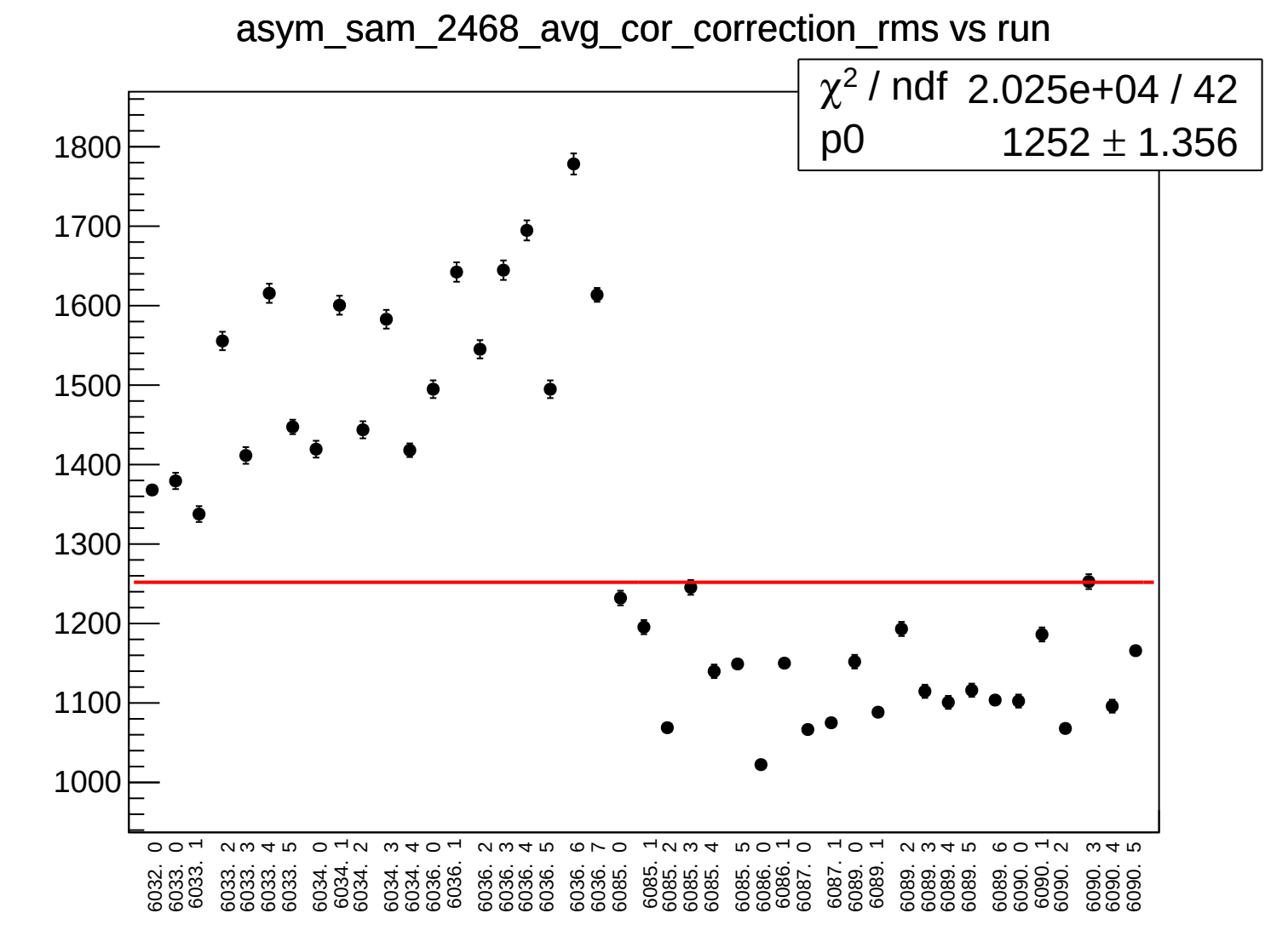
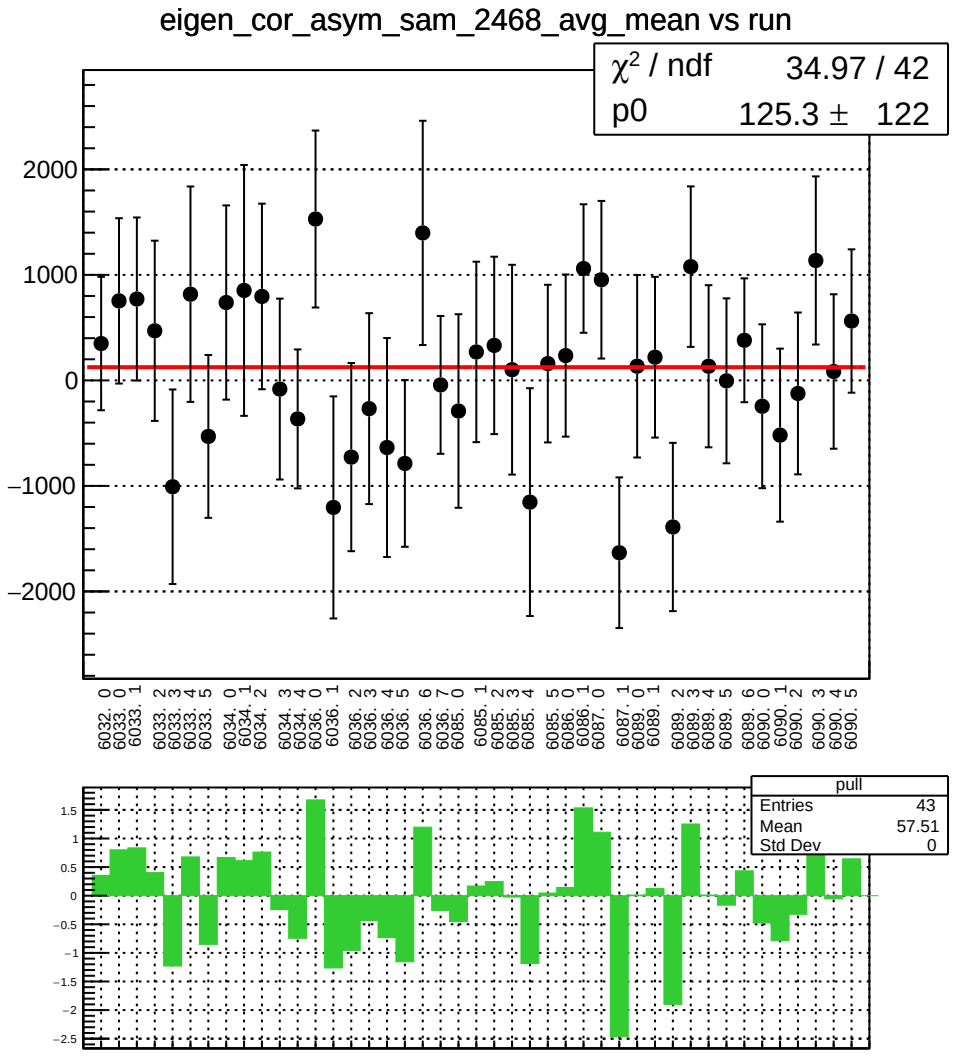
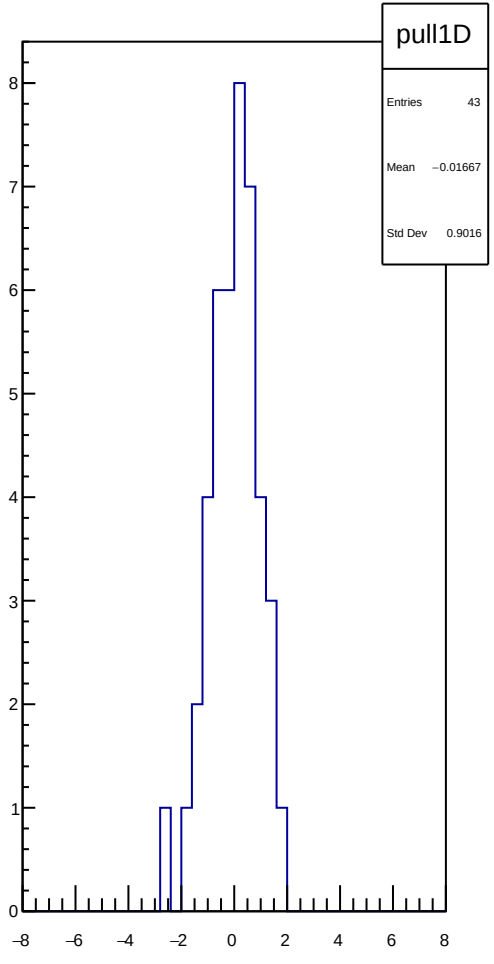
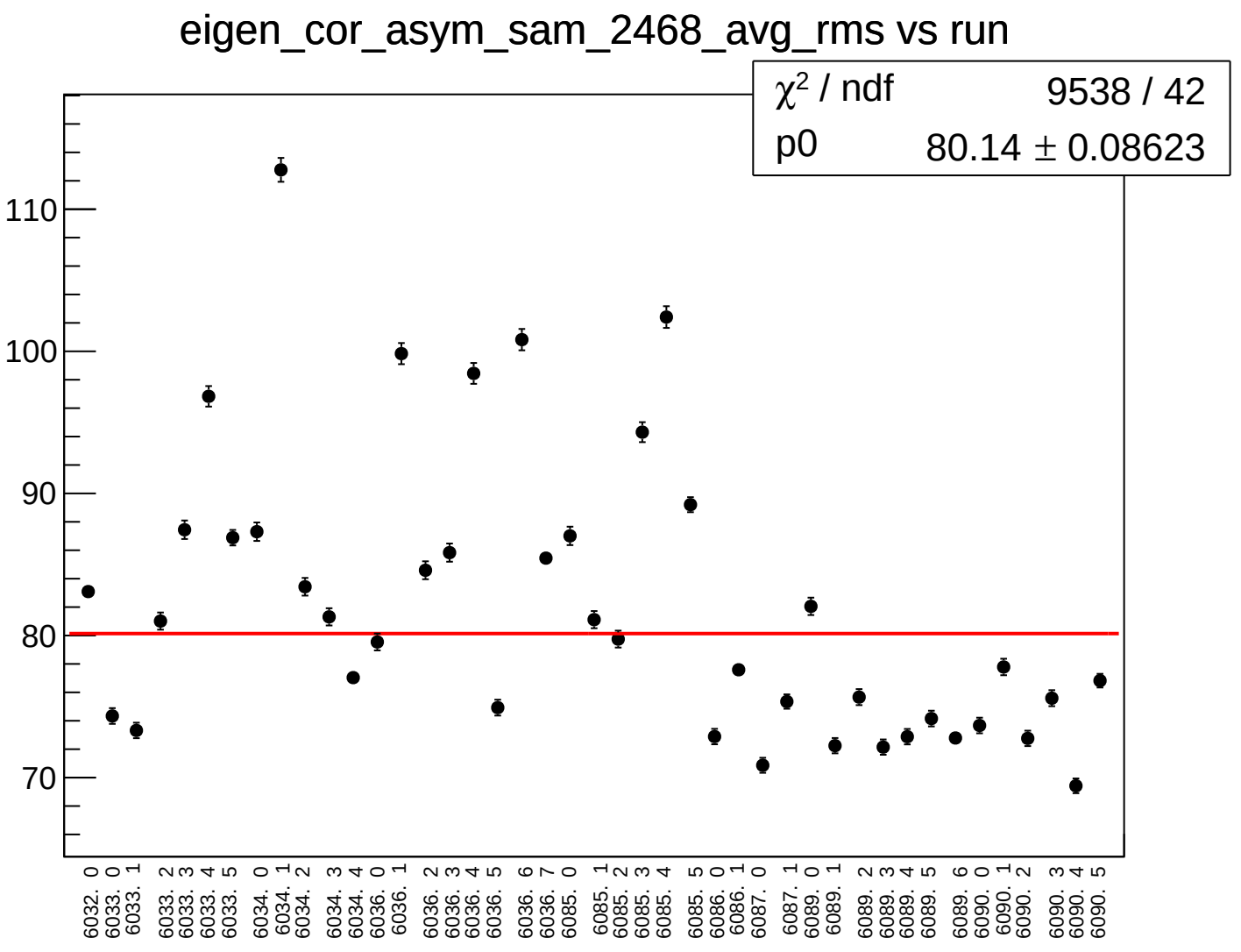
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

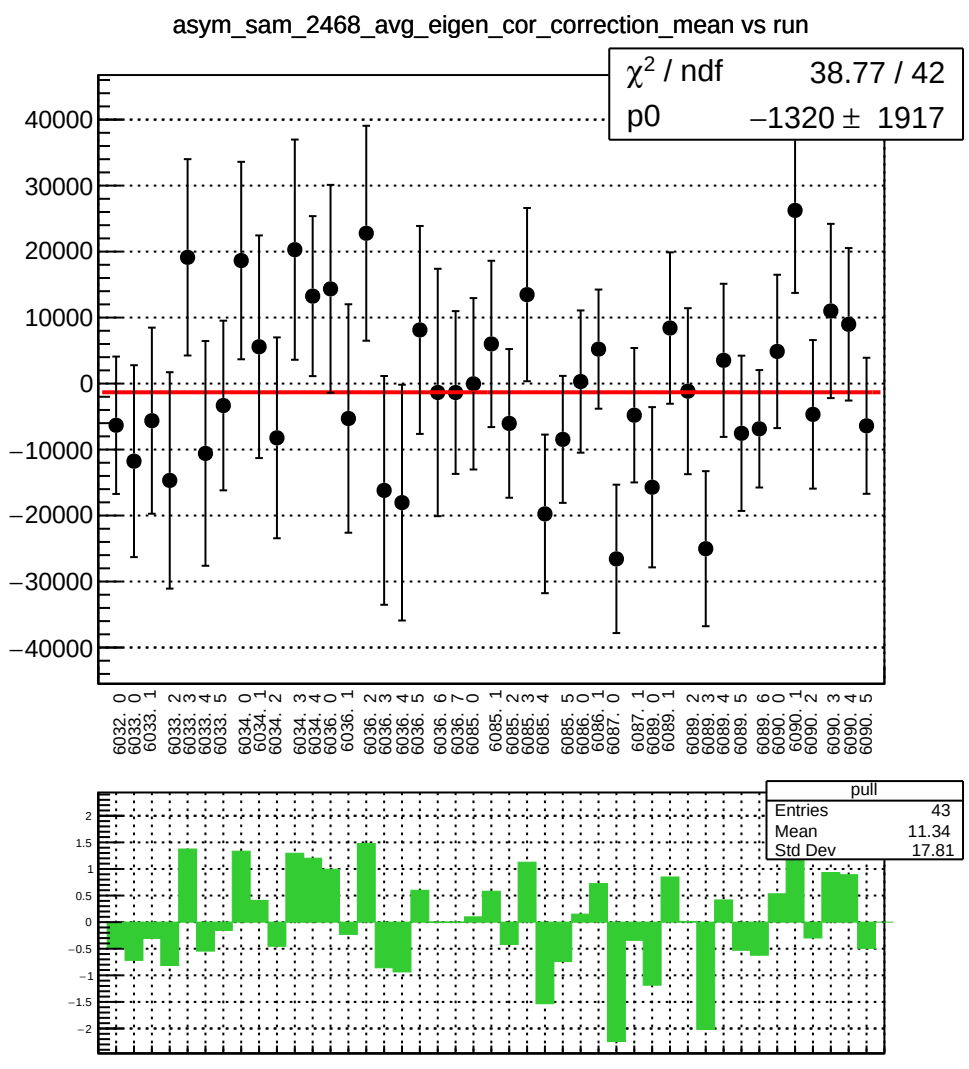

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 38.77 / 42
p0 −1320 ± 1917
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.34
Std Dev 17.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03004
Std Dev 0.949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

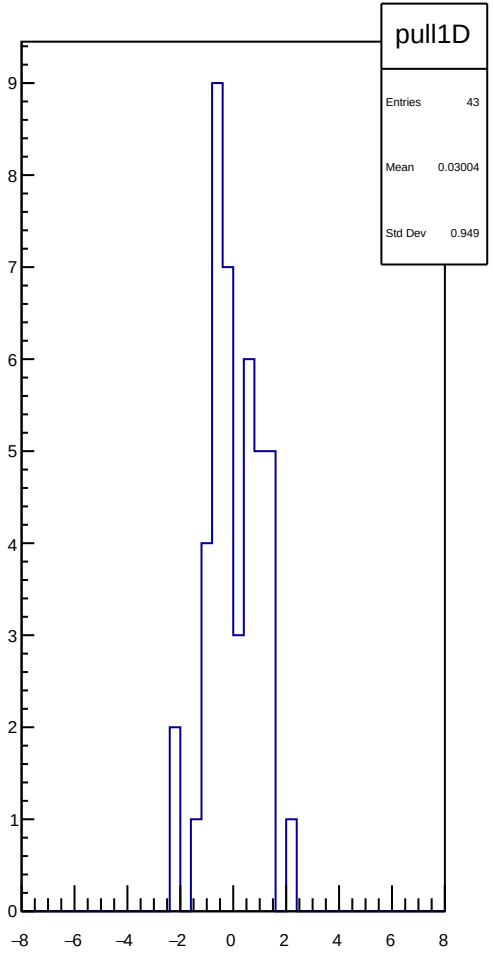

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2.025e+04 / 42
p0 1252 ± 1.356
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

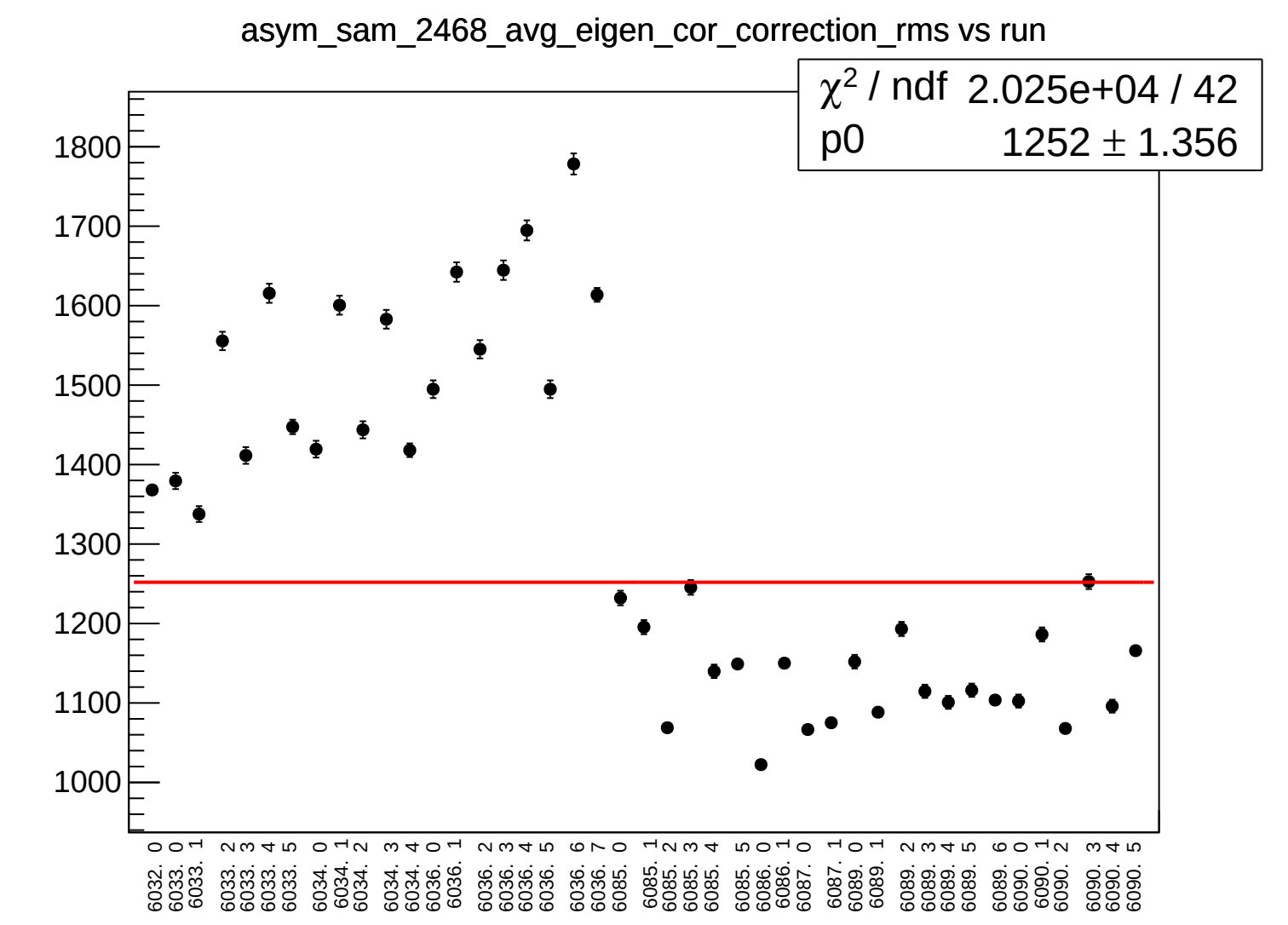

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 34.97 / 42
p0 125.3 ± 122
2000
1000
0
−1000
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 57.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

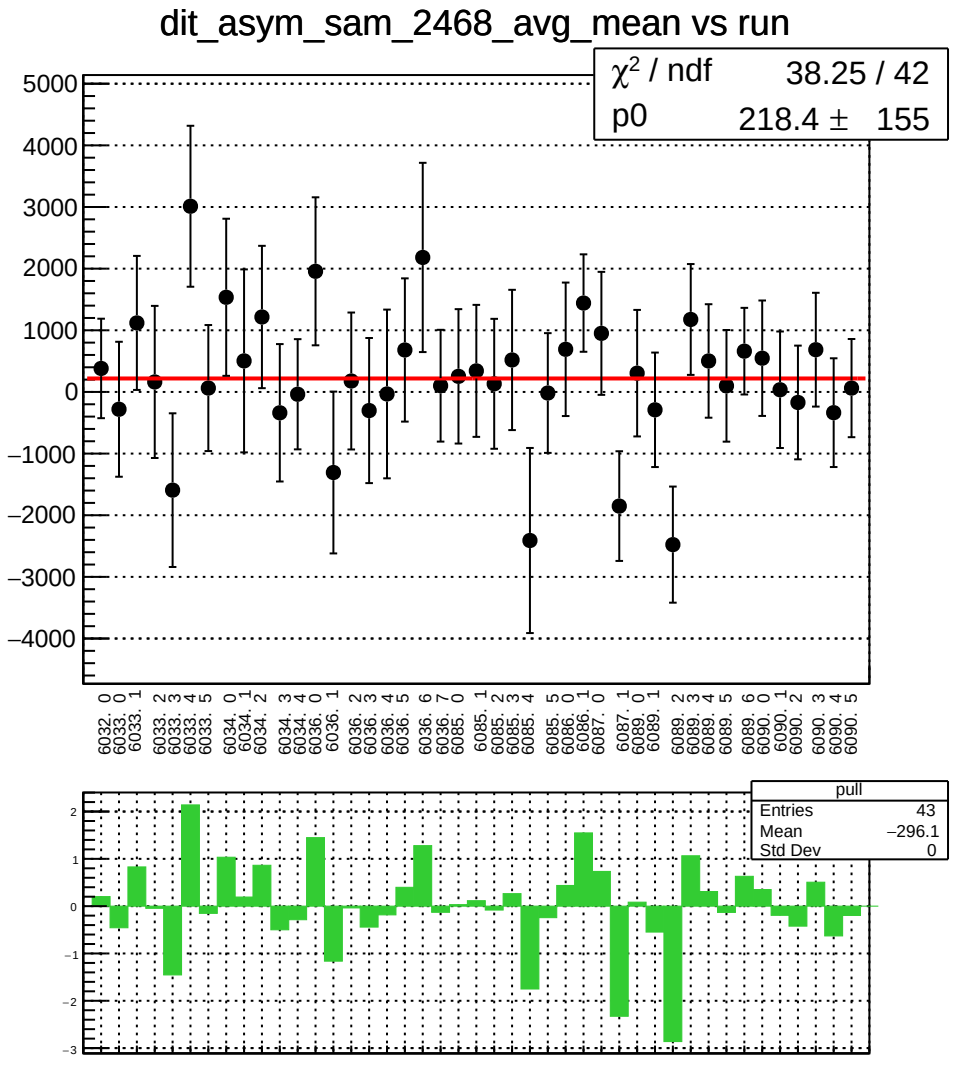

pull1D
Entries 43
Mean −0.01667
Std Dev 0.9016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

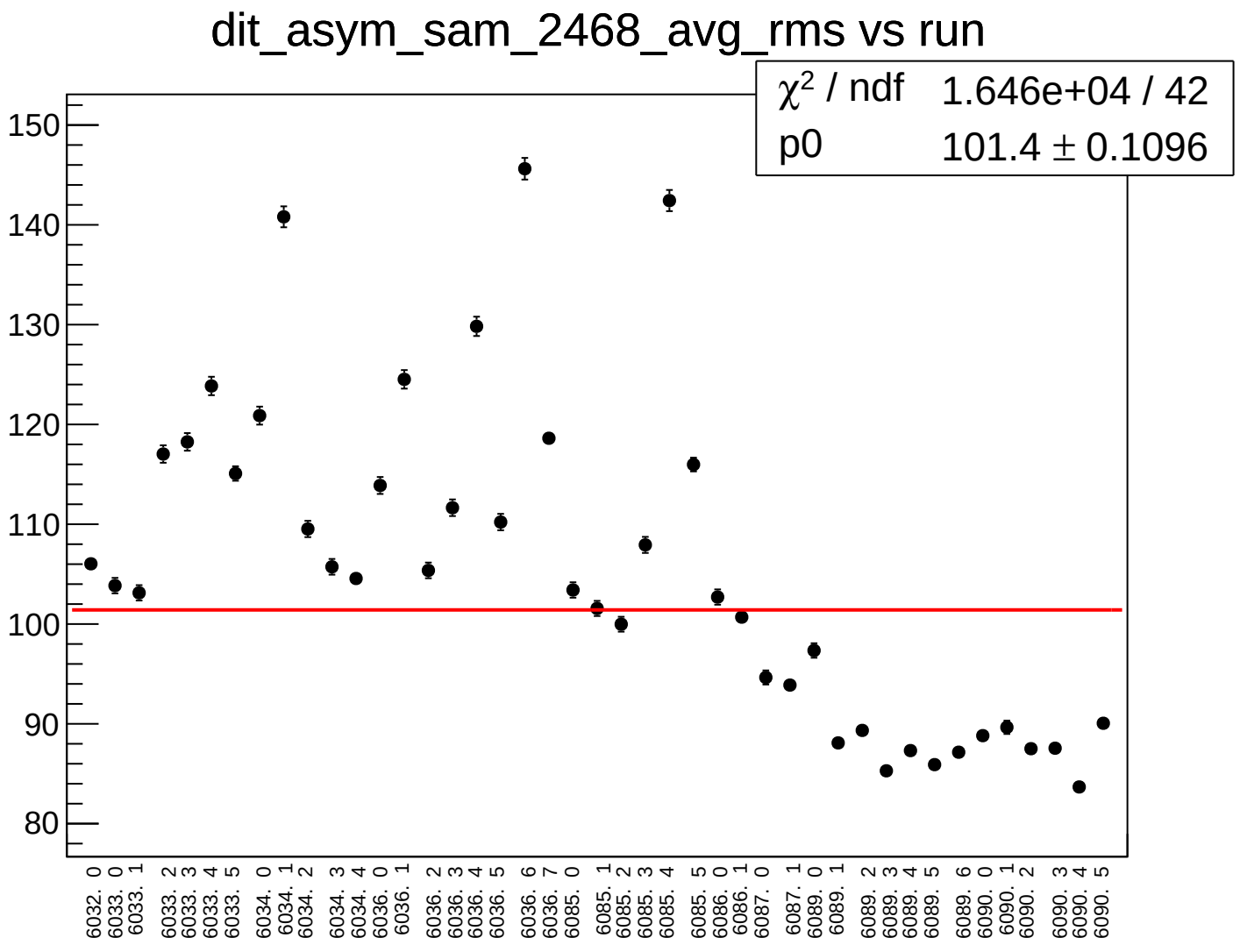

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 9538 / 42
p0 80.14 ± 0.08623
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

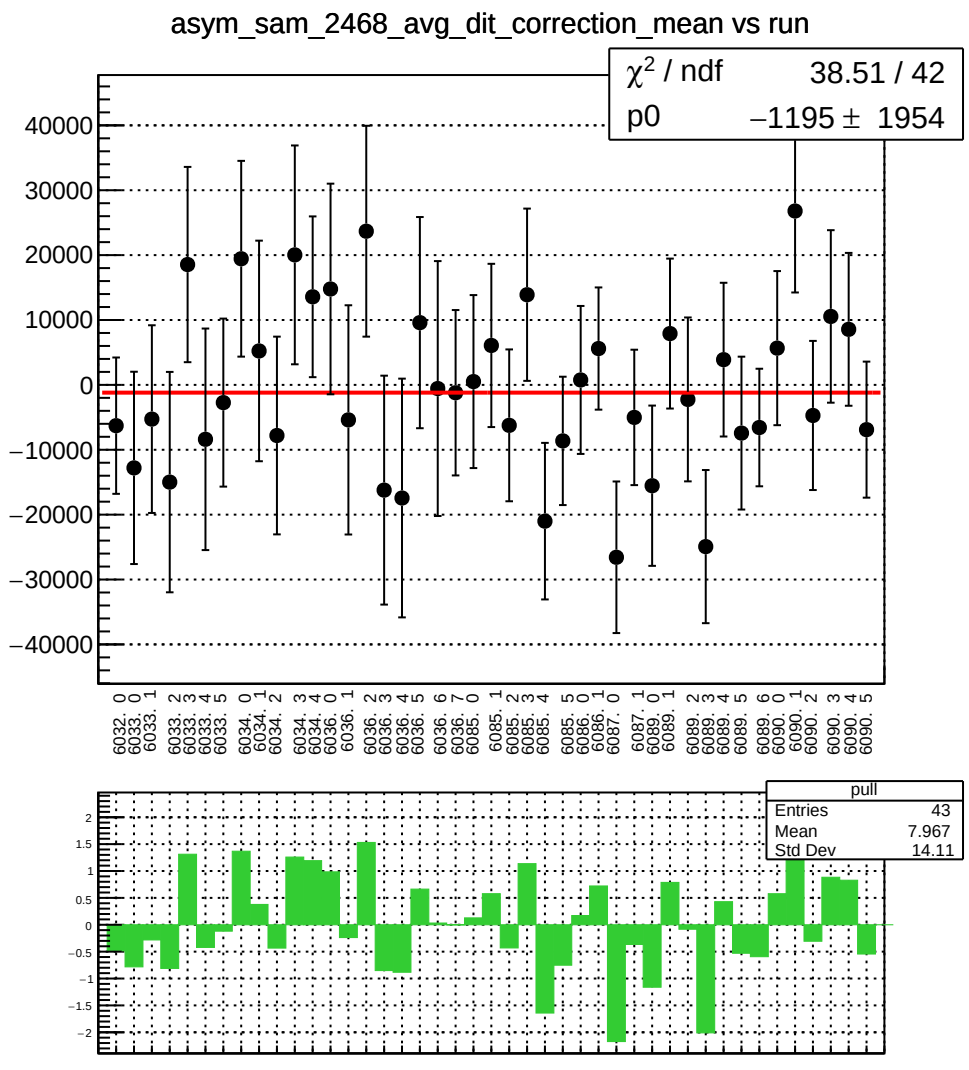

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 38.77 / 42
p0 −1320 ± 1917
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.34
Std Dev 17.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

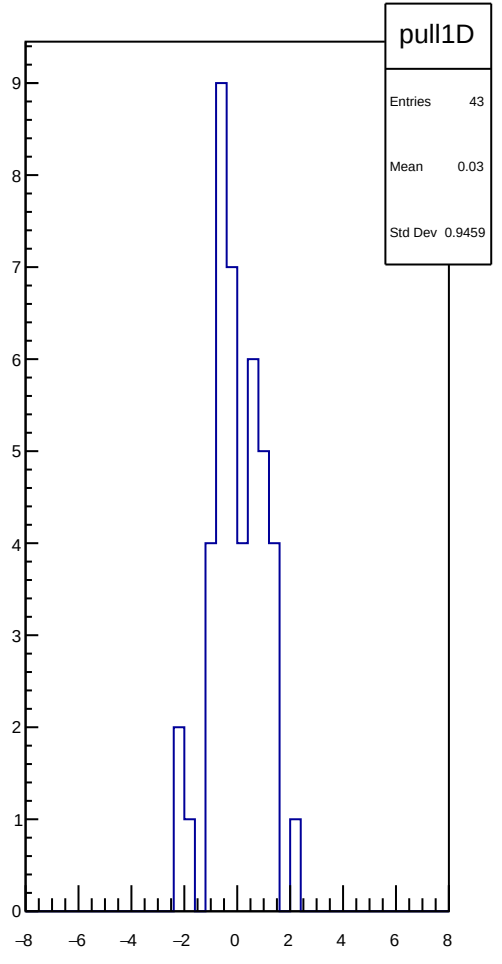

pull1D
Entries 43
Mean 0.03004
Std Dev 0.949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

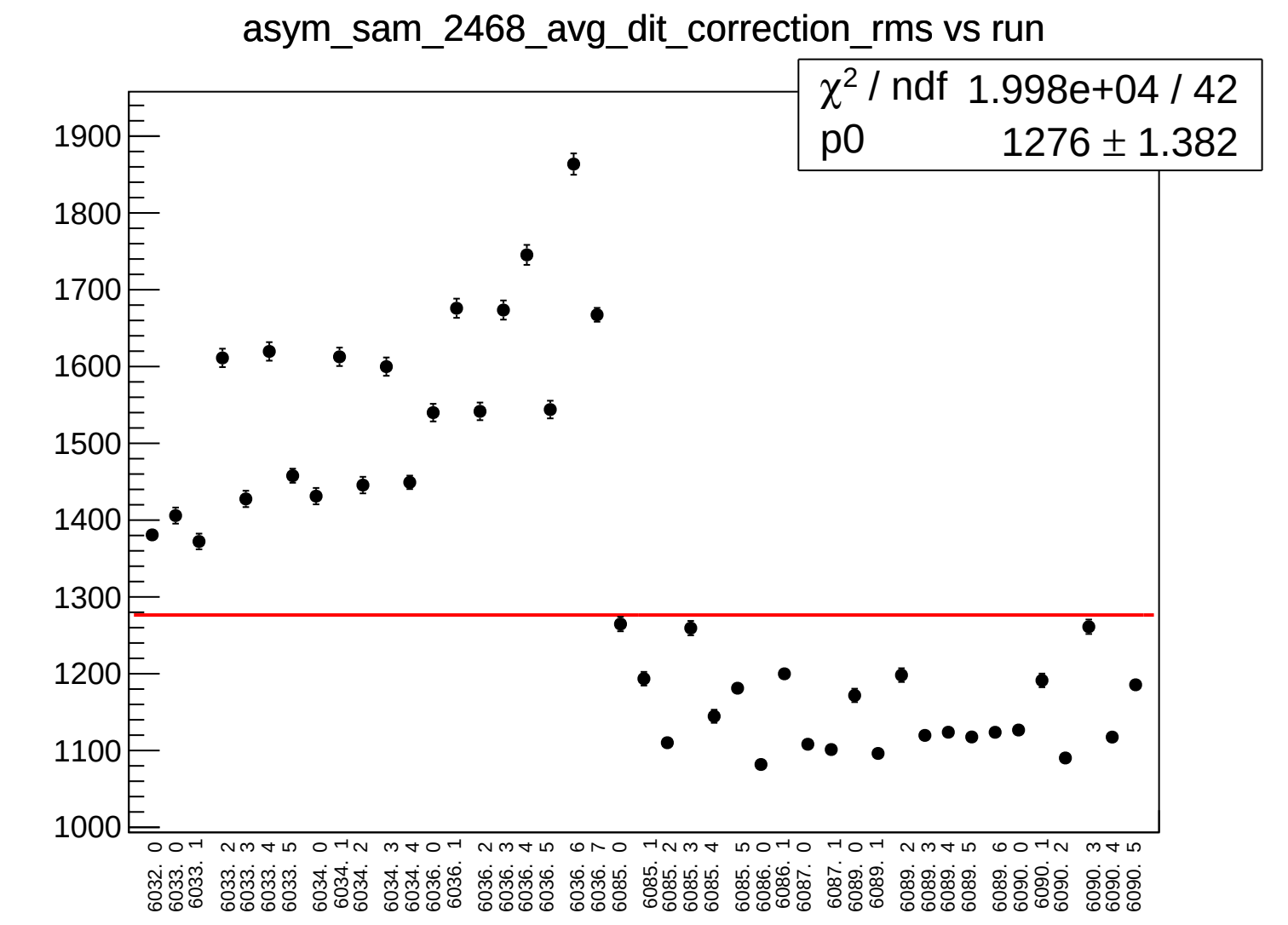

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.025e+04 / 42
p0 1252 ± 1.356
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

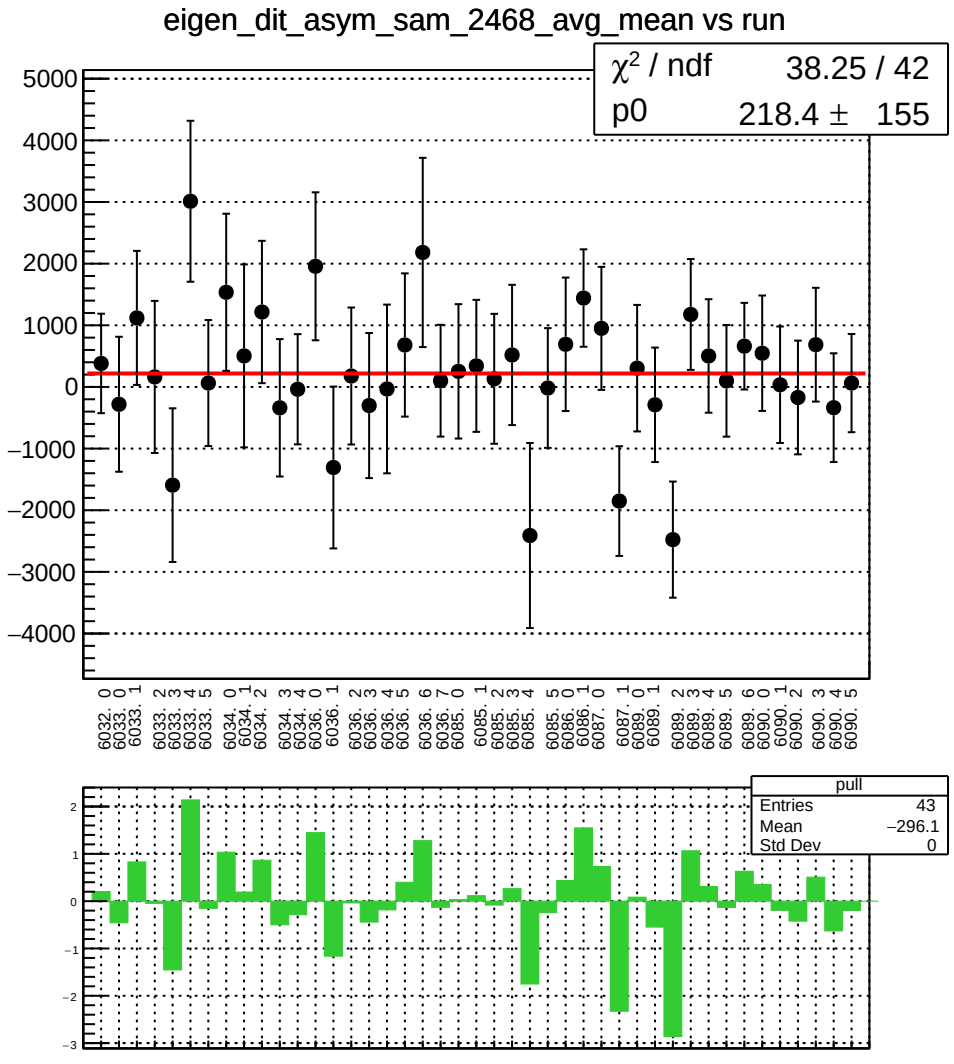

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 38.25 / 42
p0 218.4 ± 155
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −296.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005369
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

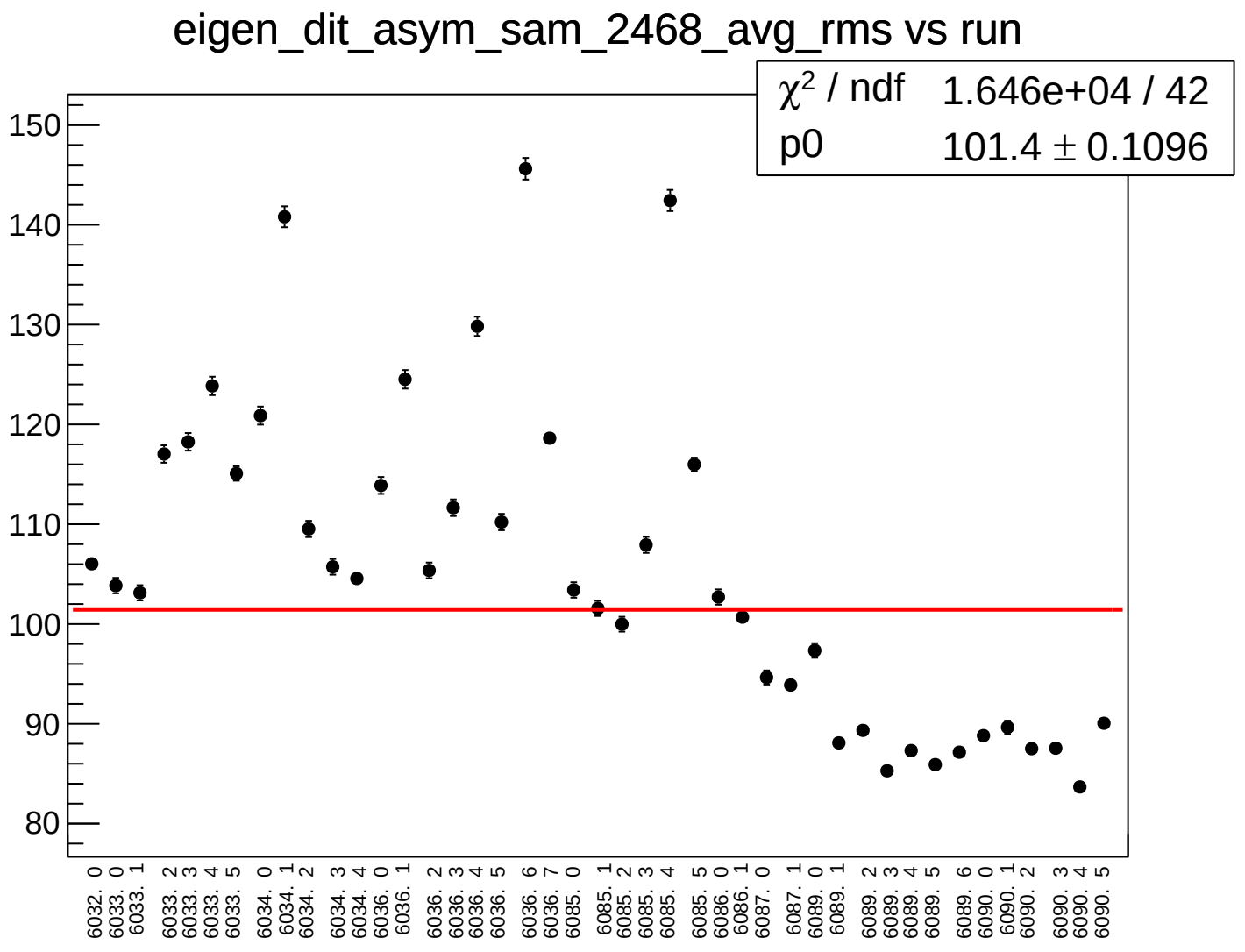

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.646e+04 / 42
p0 101.4 ± 0.1096
150
140
130
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

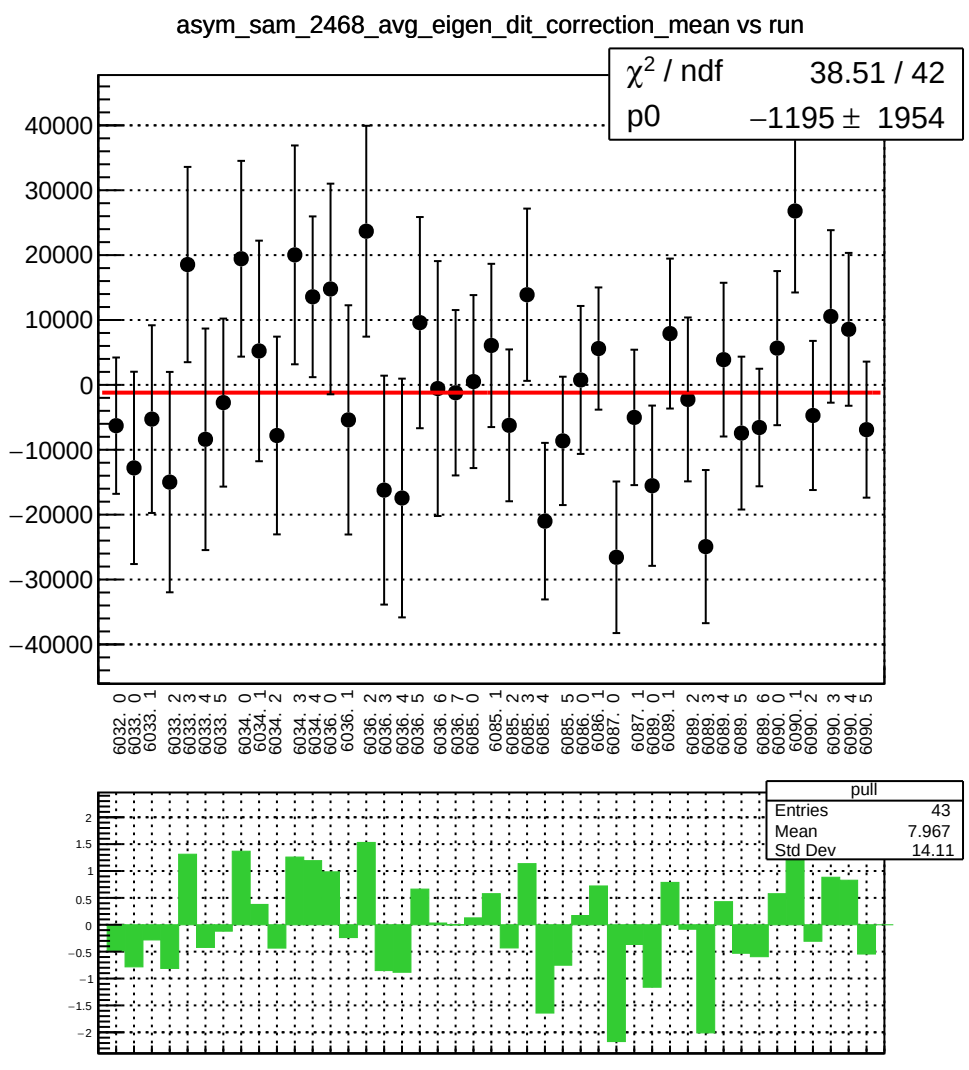

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 38.51 / 42
p0 −1195 ± 1954
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.967
Std Dev 14.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

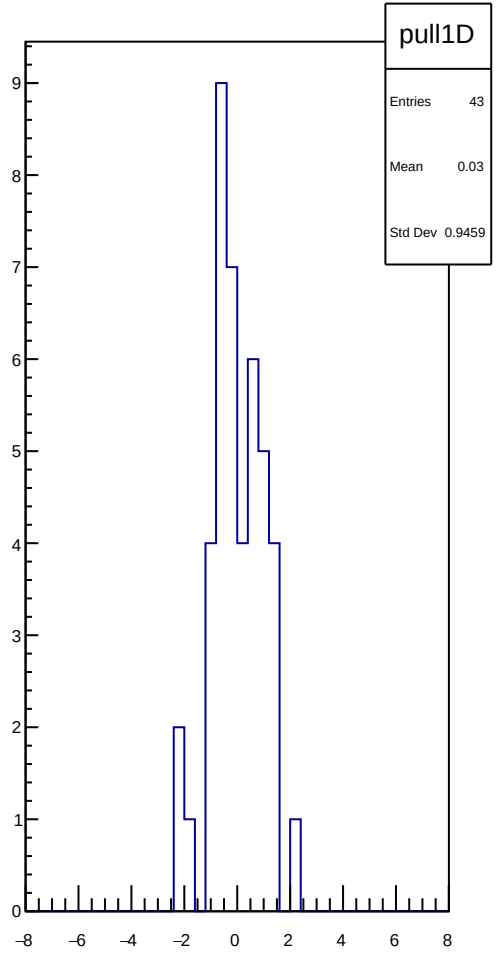

pull1D
Entries 43
Mean 0.03
Std Dev 0.9459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

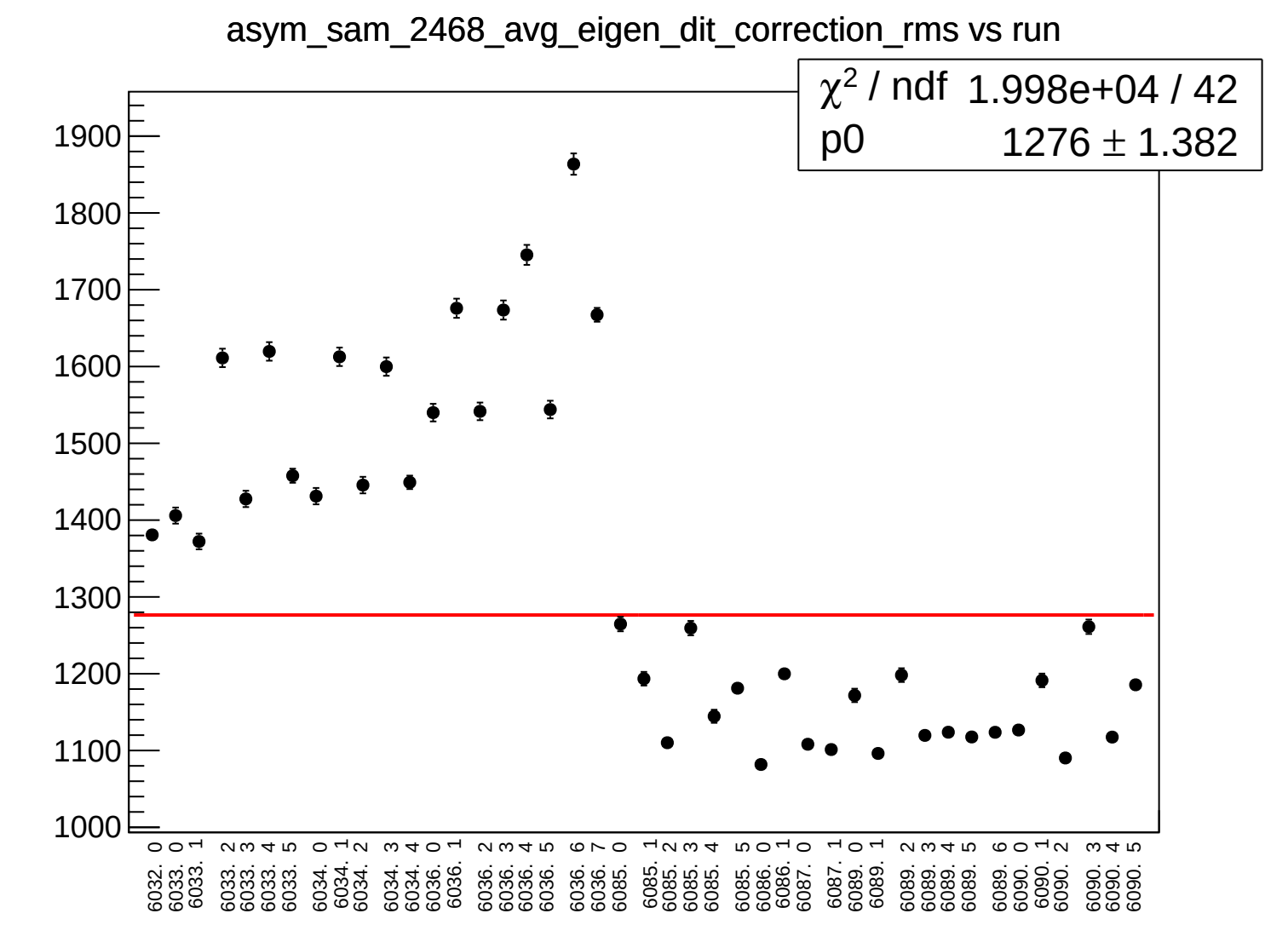

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.998e+04 / 42
p0 1276 ± 1.382
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

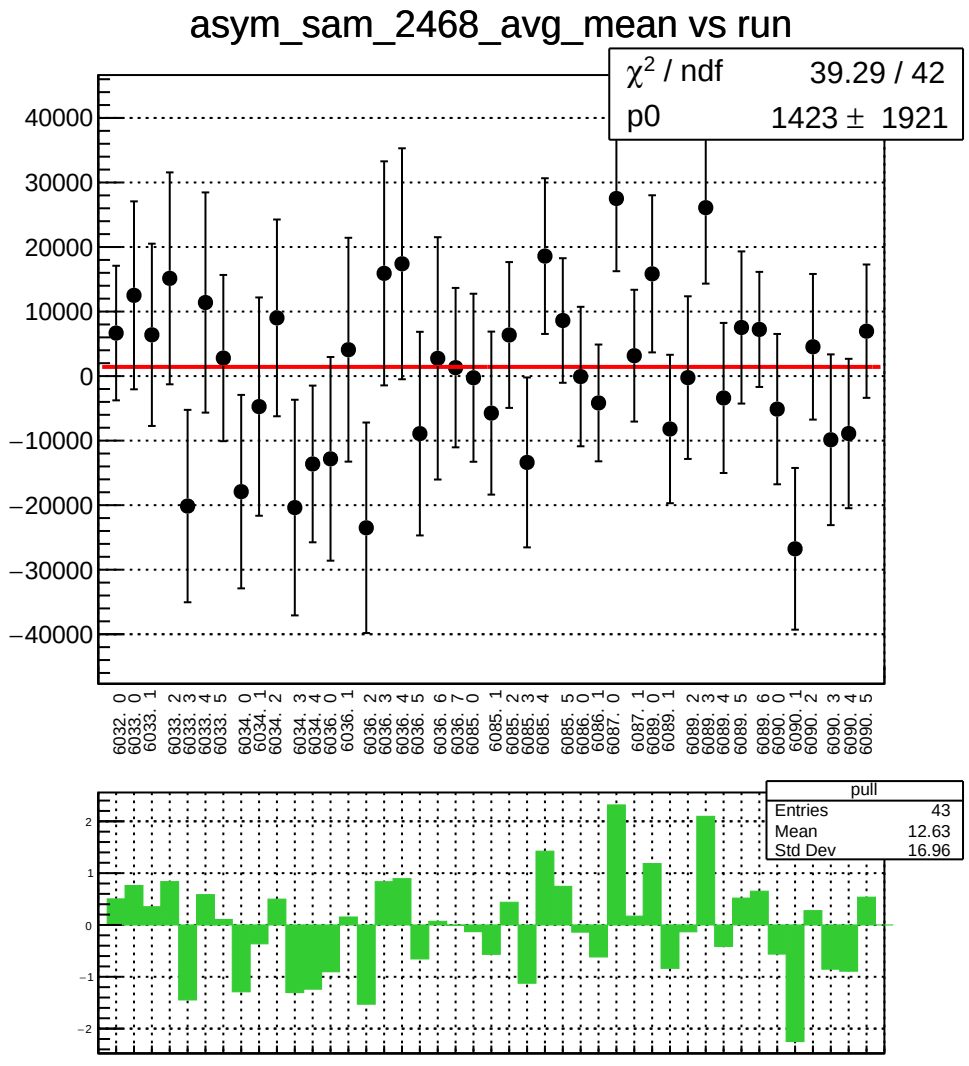

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 38.25 / 42
p0 218.4 ± 155
pull
Entries 43
Mean −296.1
Std Dev 0
pull1D
Entries 43
Mean 0.005368
Std Dev 0.9431

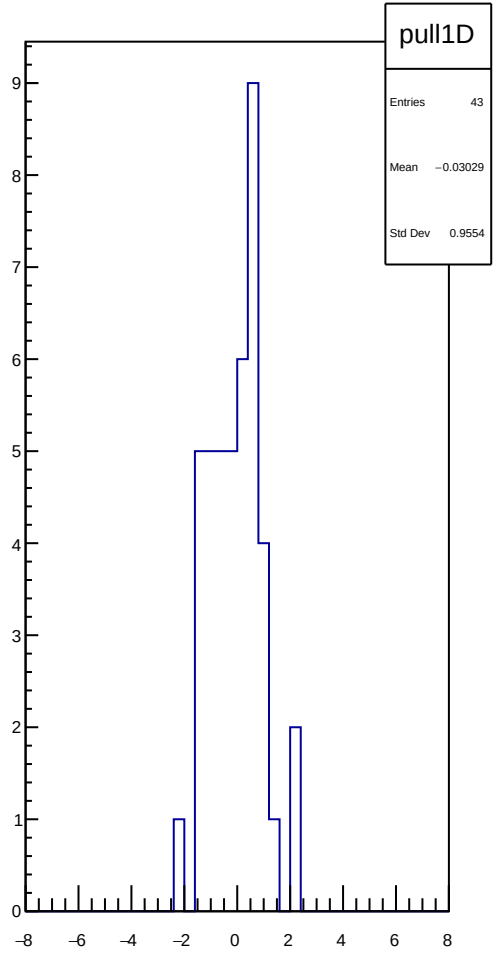

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.646e+04 / 42
p0 101.4 ± 0.1096
150
140
130
120
110
100
90
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

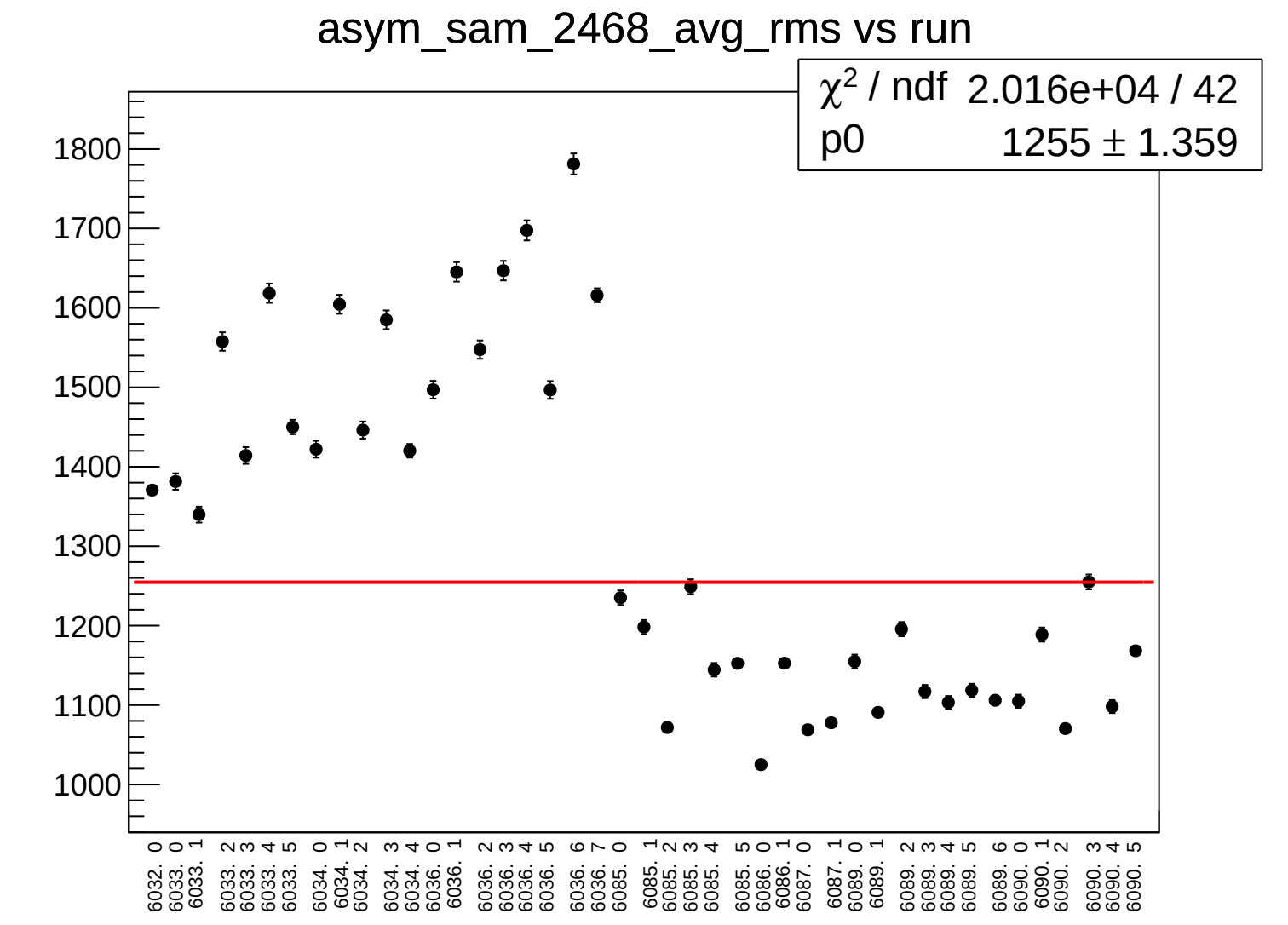

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 38.51 / 42
p0 −1195 ± 1954
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 7.967
Std Dev 14.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

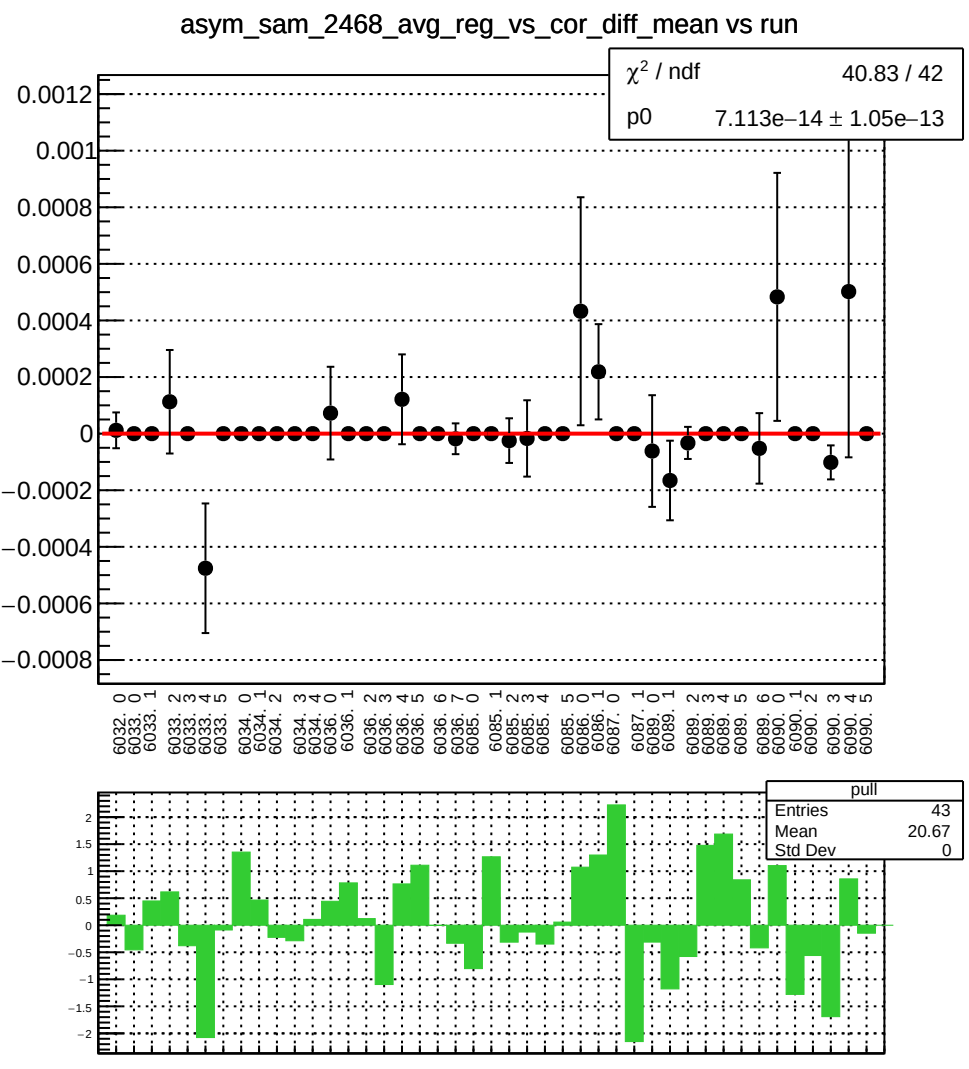

pull1D
Entries 43
Mean 0.03
Std Dev 0.9459
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

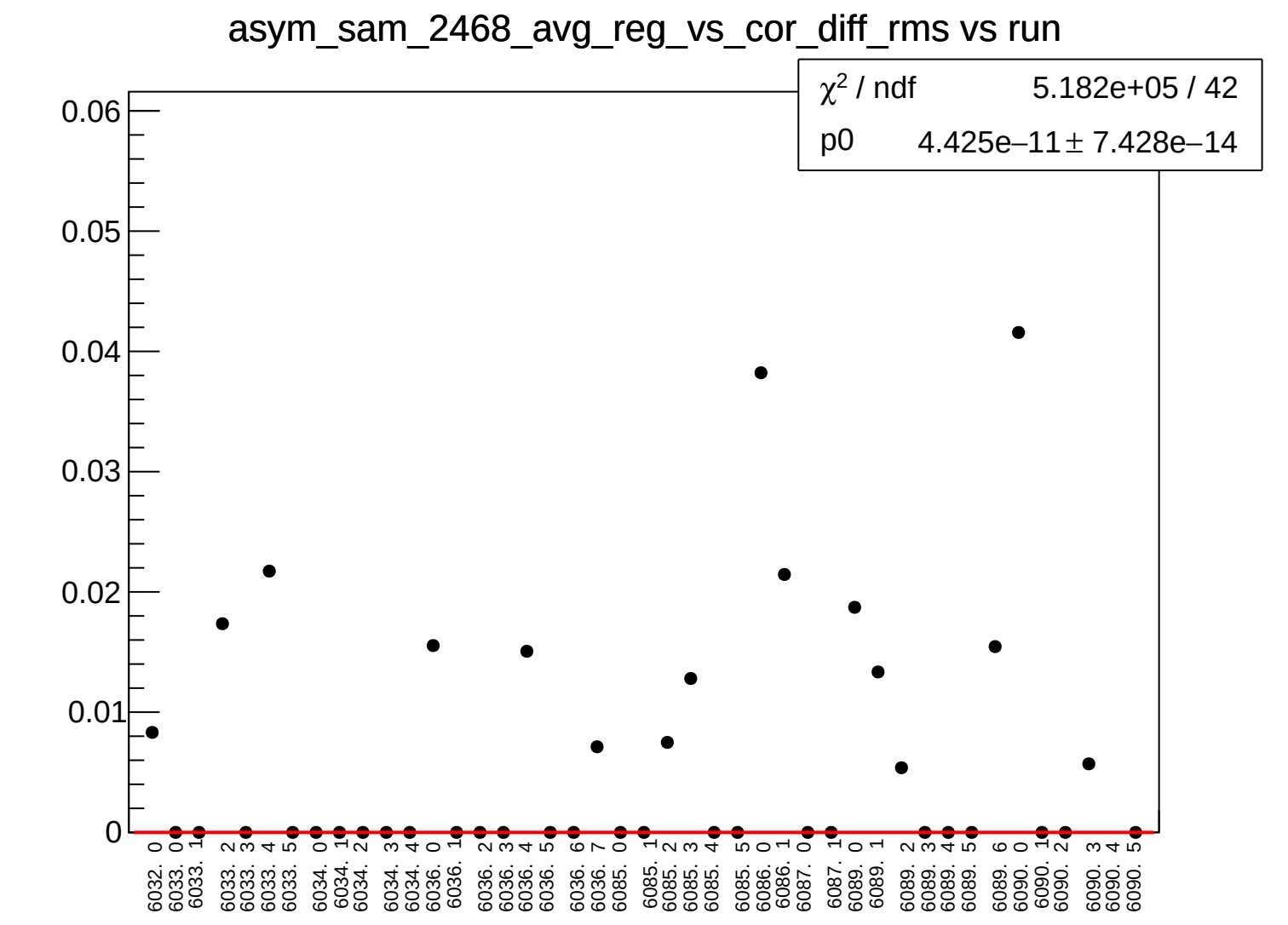

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.998e+04 / 42
p0 1276 ± 1.382
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

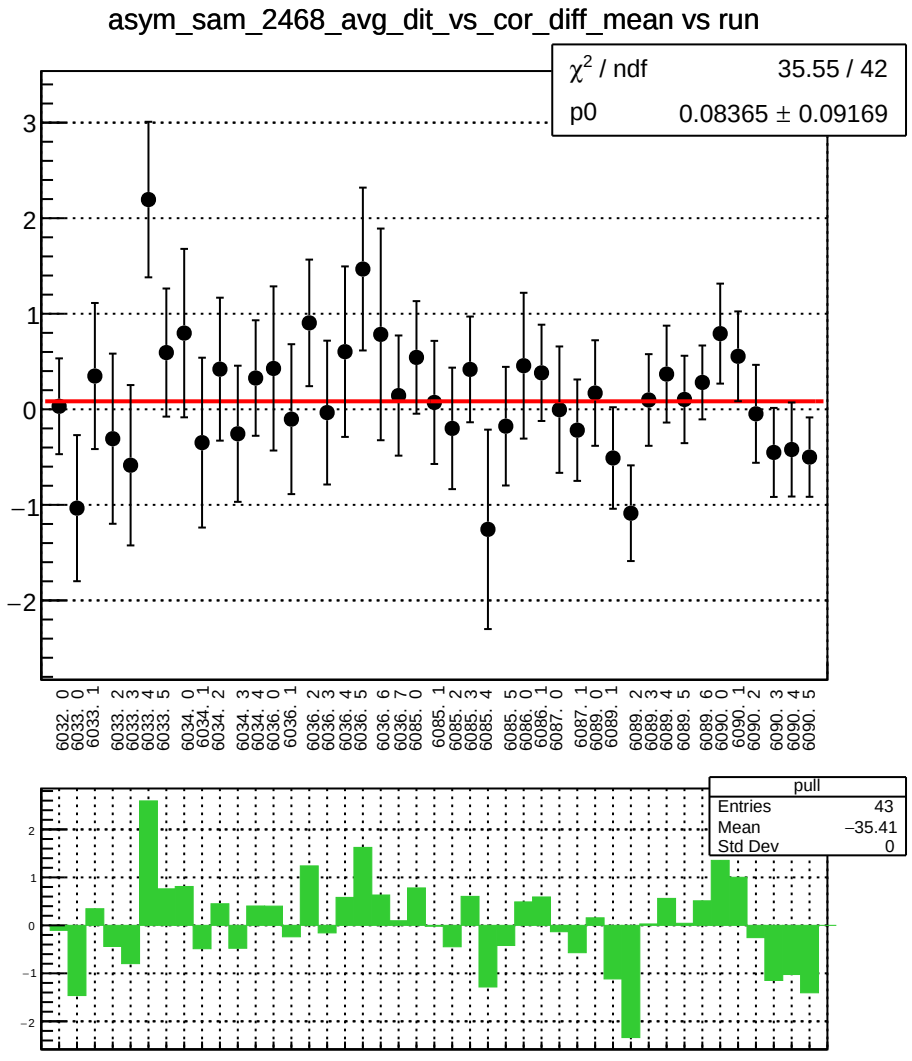

asym_sam_2468_avg_mean vs run
χ² / ndf 39.29 / 42
p0 1423 ± 1921
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 12.63
Std Dev 16.96
2
1
0
−1
−2

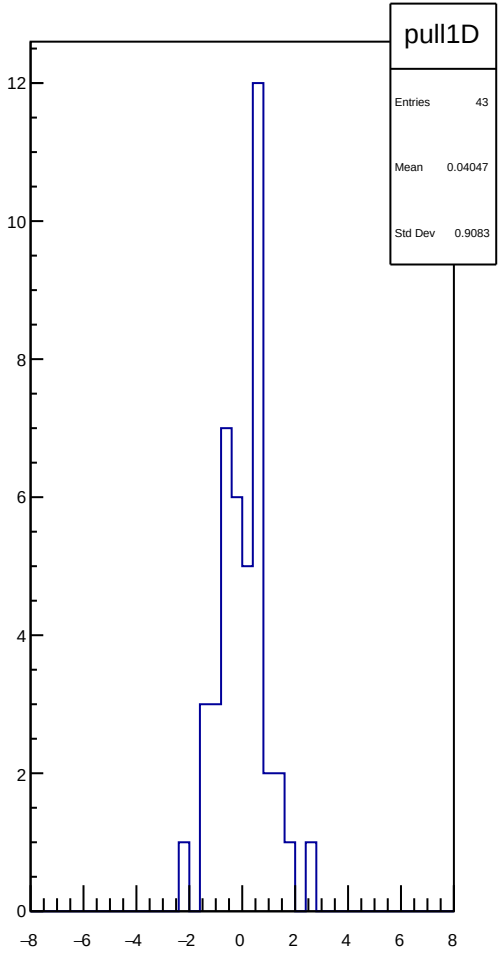

pull1D
Entries 43
Mean −0.03029
Std Dev 0.9554
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

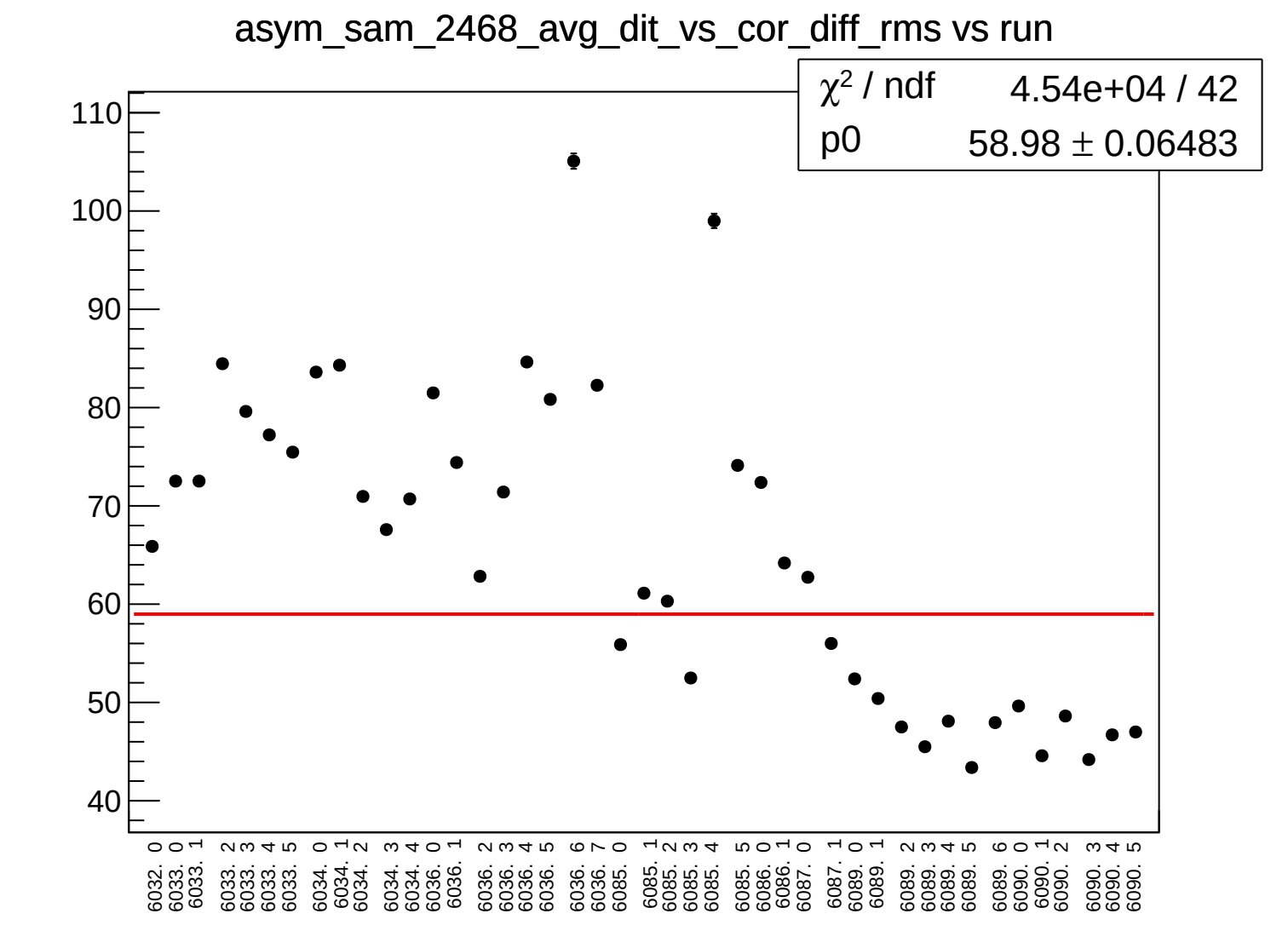

asym_sam_2468_avg_rms vs run
χ² / ndf 2.016e+04 / 42
p0 1255 ± 1.359
1800
1700
1600
1500
1400
1300
1200
1100
1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

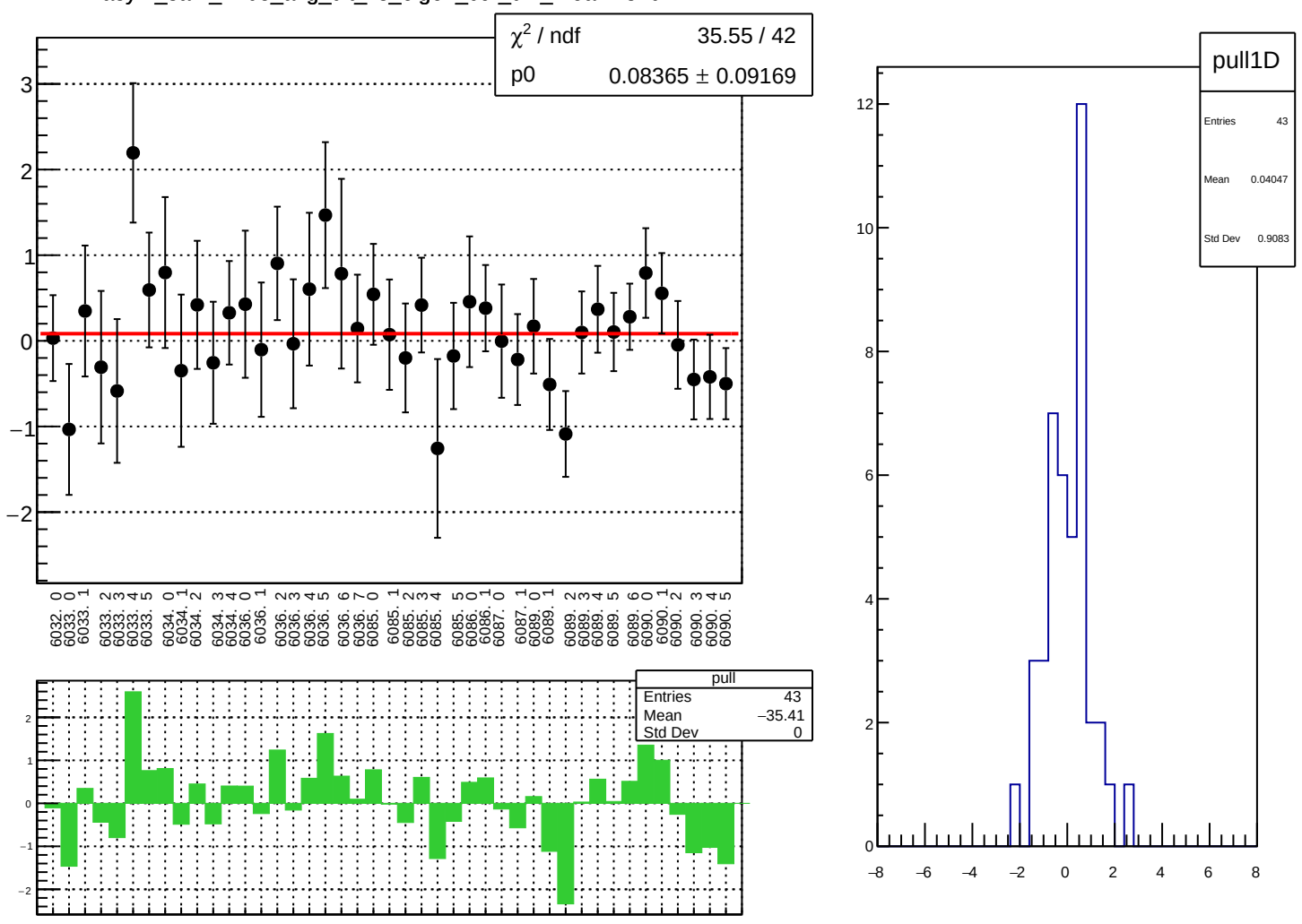

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.83 / 42
p0 7.113e−14 ± 1.05e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 20.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.07998
Std Dev 0.9712
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

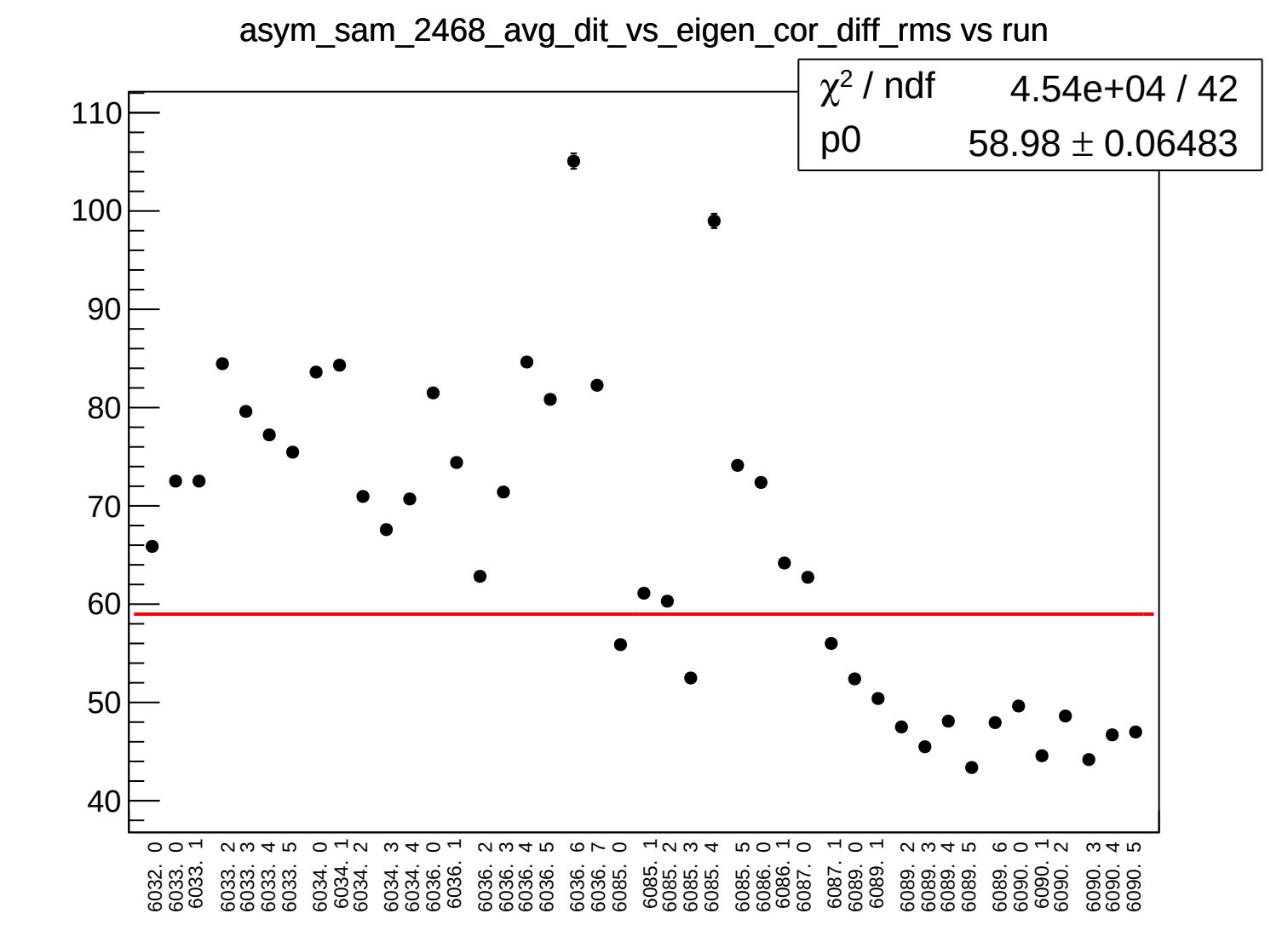

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.182e+05 / 42
p0 4.425e−11 ± 7.428e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

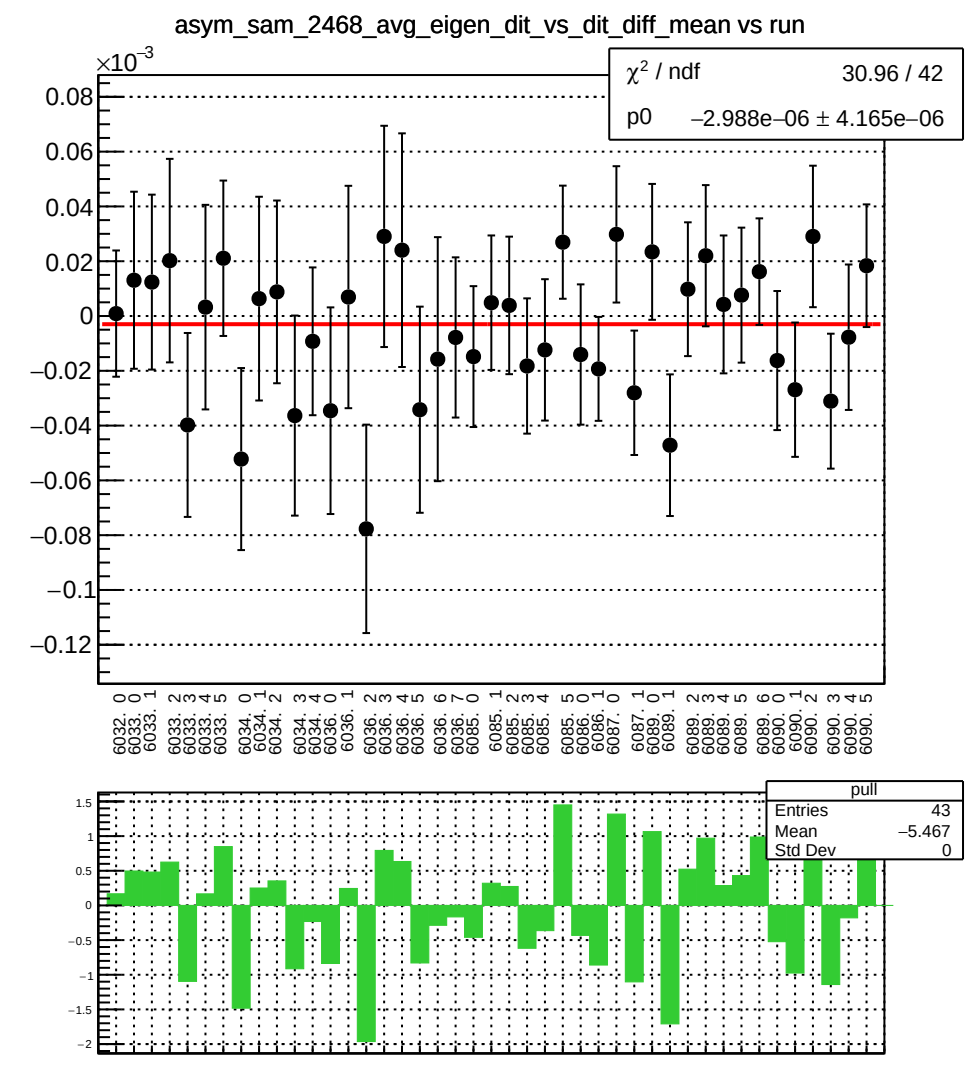

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.55 / 42
p0 0.08365 ± 0.09169
pull
Entries 43
Mean −35.41
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

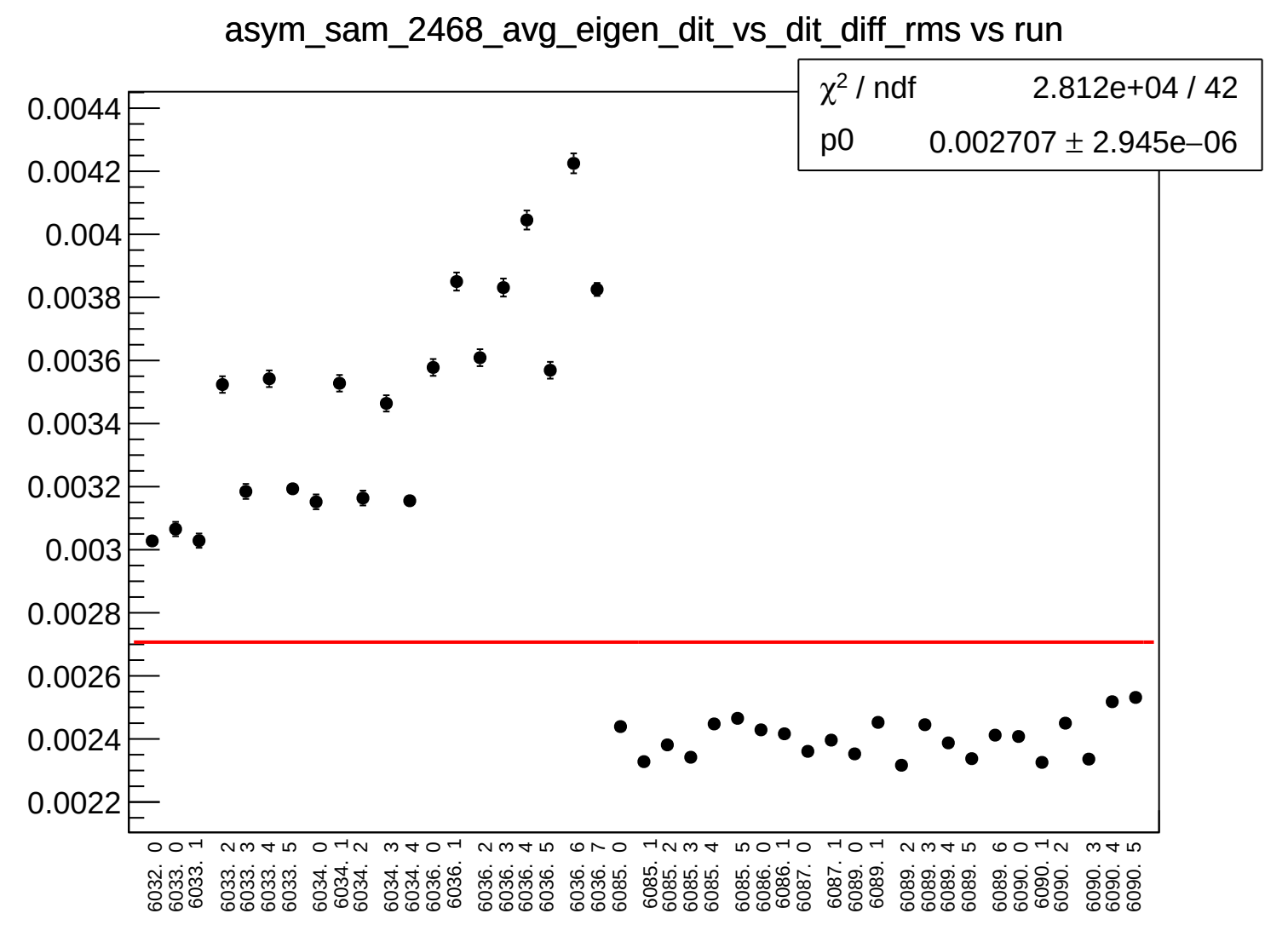

pull1D
Entries 43
Mean 0.04047
Std Dev 0.9083

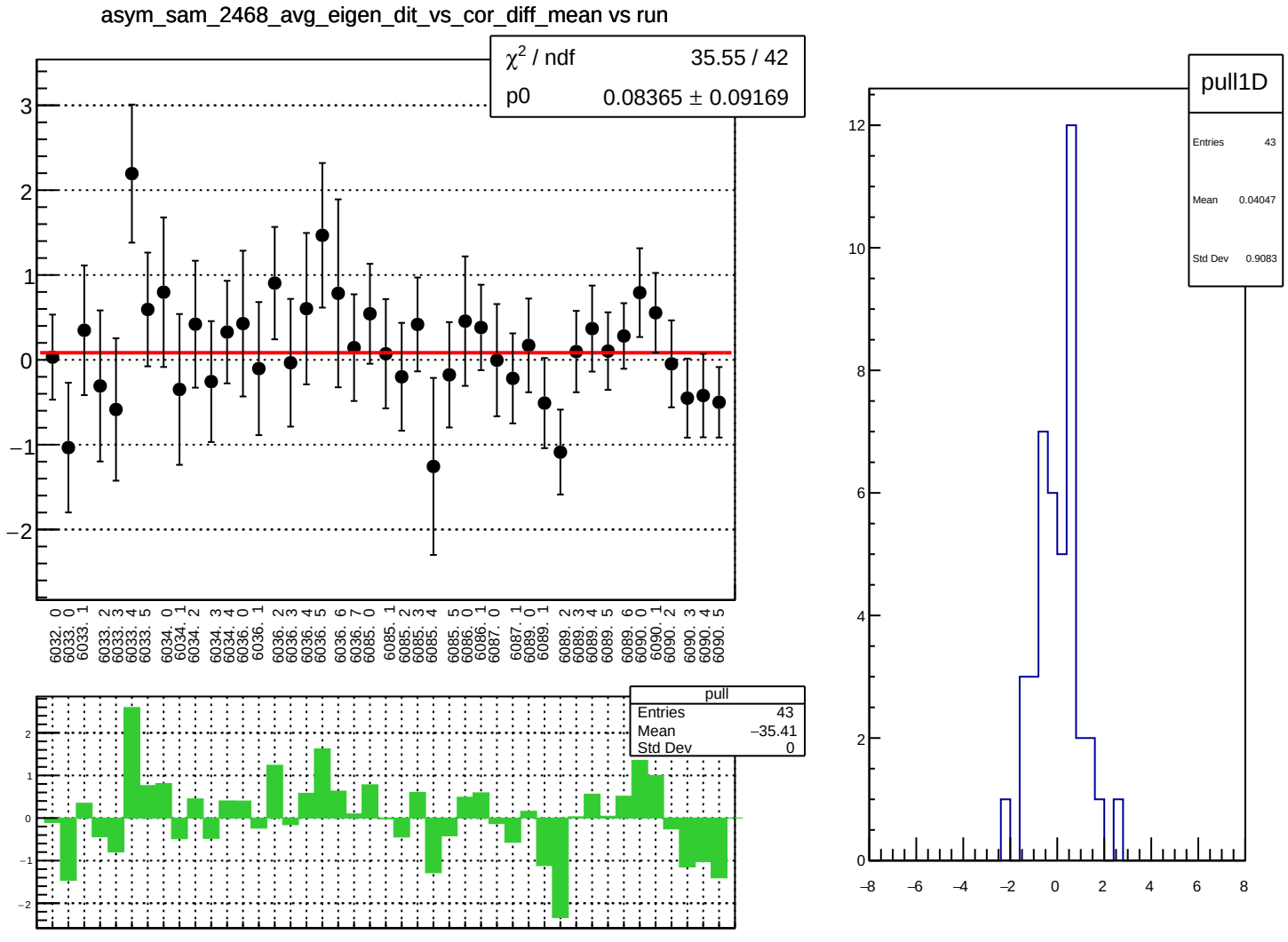

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.54e+04 / 42
p0 58.98 ± 0.06483
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

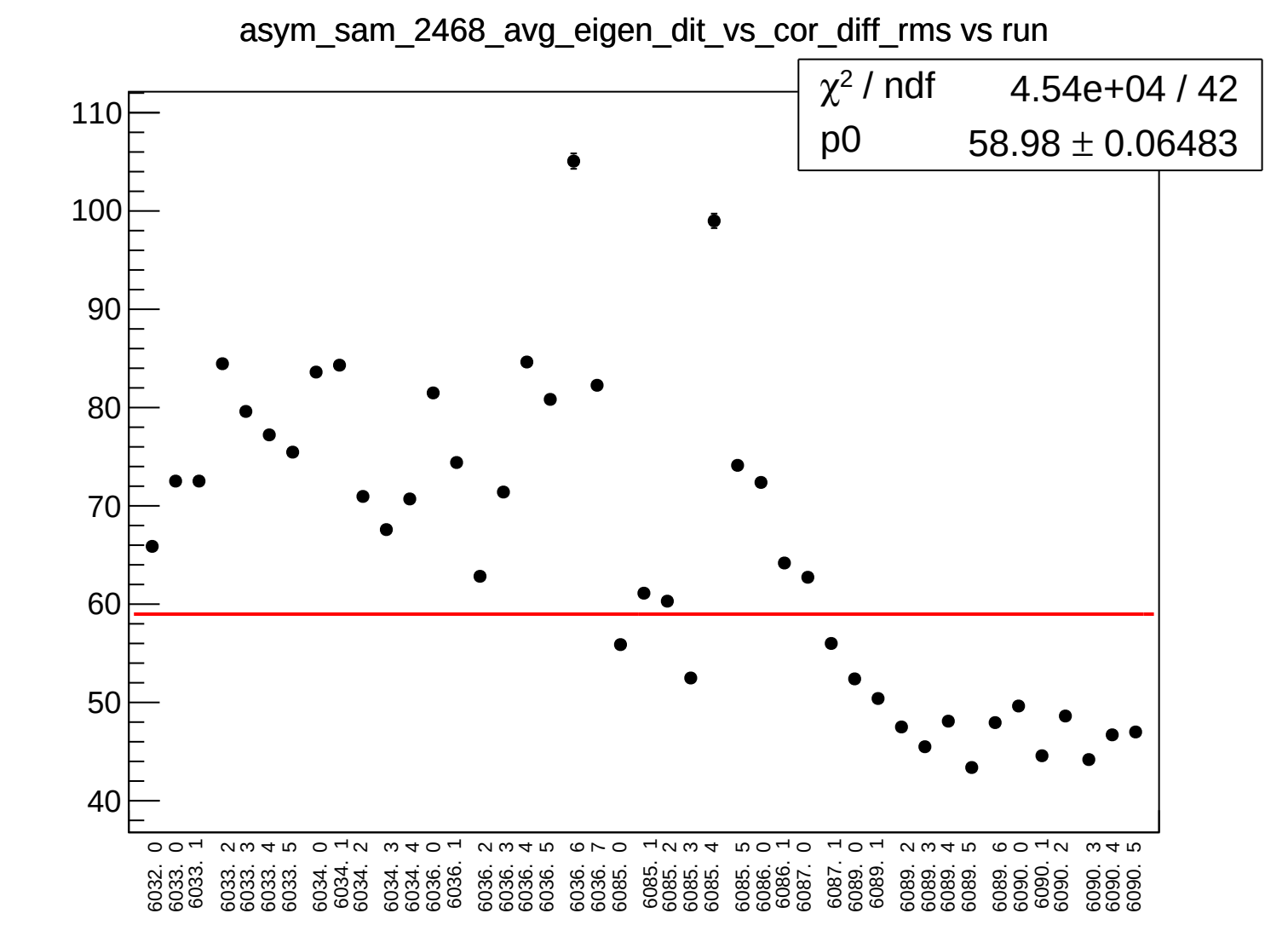

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.55 / 42
p0 0.08365 ± 0.09169
pull
Entries 43
Mean −35.41
Std Dev 0
pull1D
Entries 43
Mean 0.04047
Std Dev 0.9083


asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.54e+04 / 42
p0 58.98 ± 0.06483
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

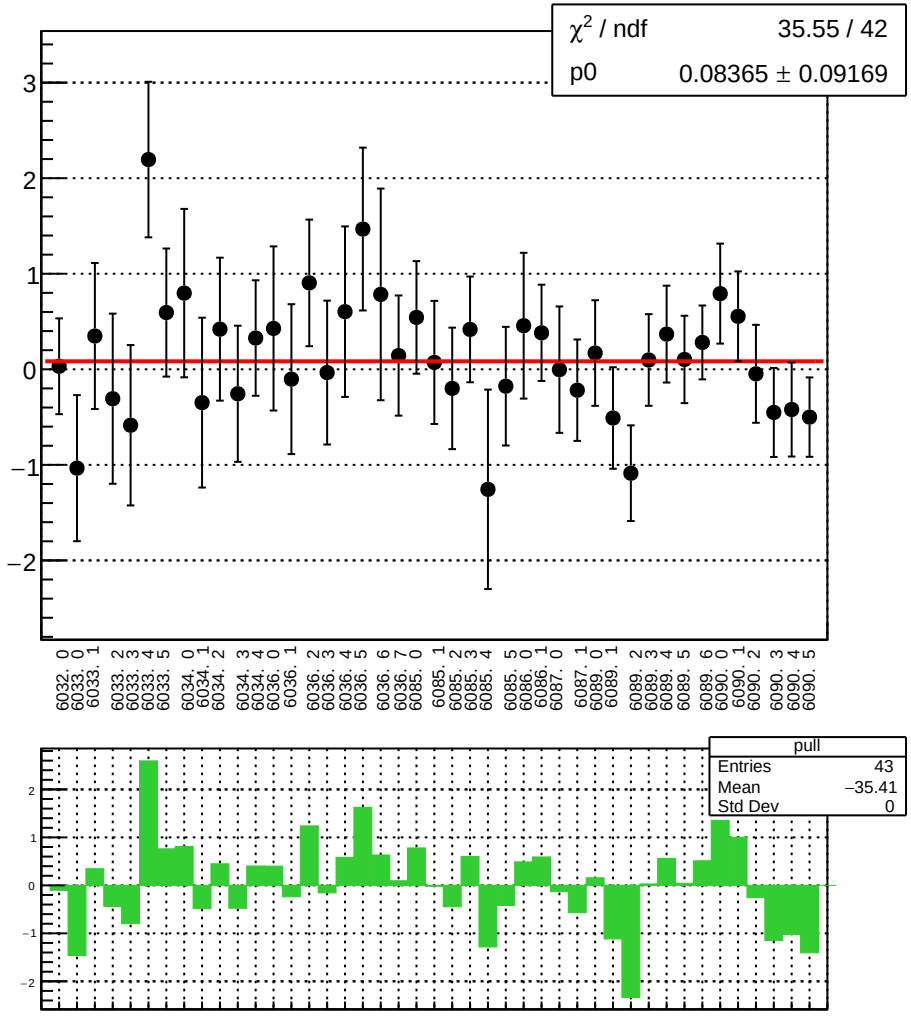

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.96 / 42
p0 −2.988e−06 ± 4.165e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.467
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02998
Std Dev 0.848
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

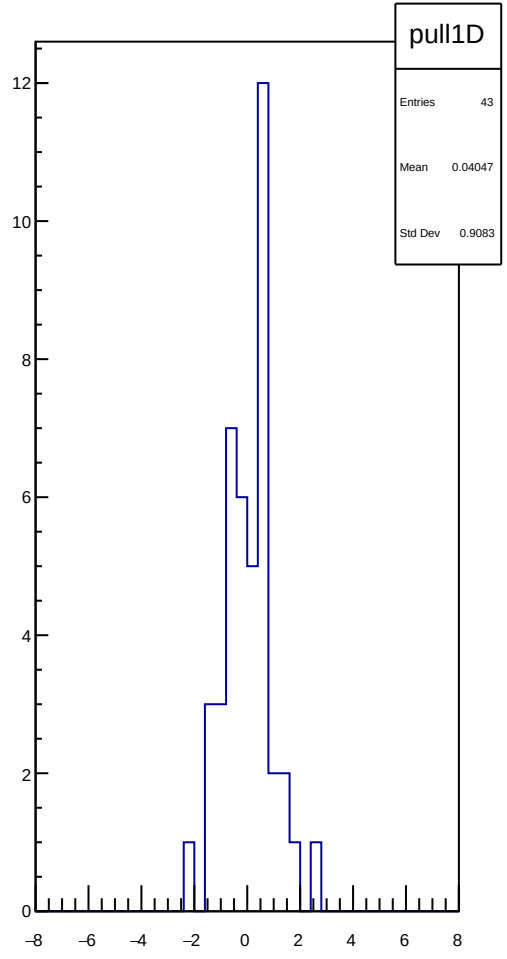

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.812e+04 / 42
p0 0.002707 ± 2.945e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

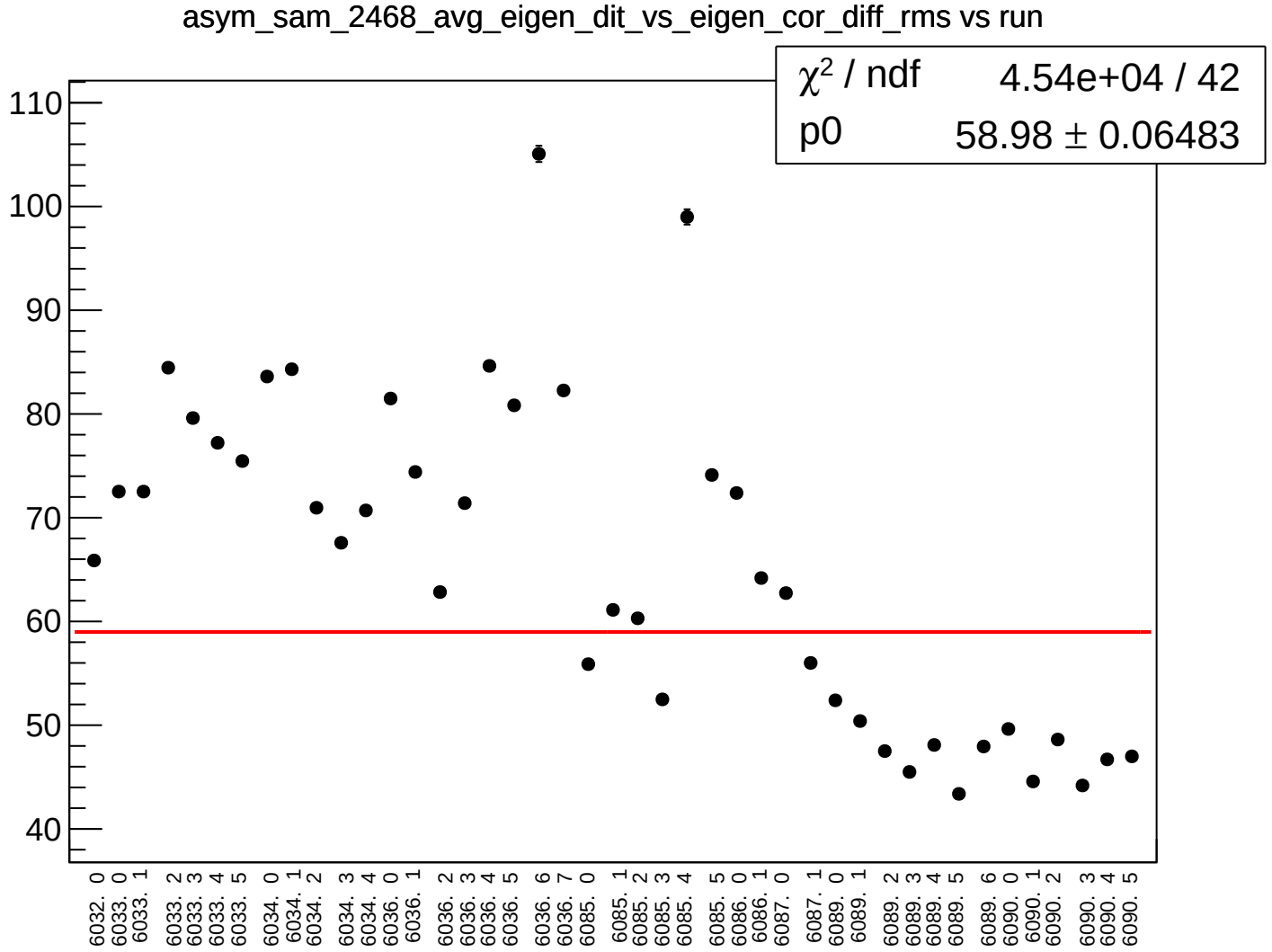

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.55 / 42
p0 0.08365 ± 0.09169
pull
Entries 43
Mean −35.41
Std Dev 0
pull1D
Entries 43
Mean 0.04047
Std Dev 0.9083

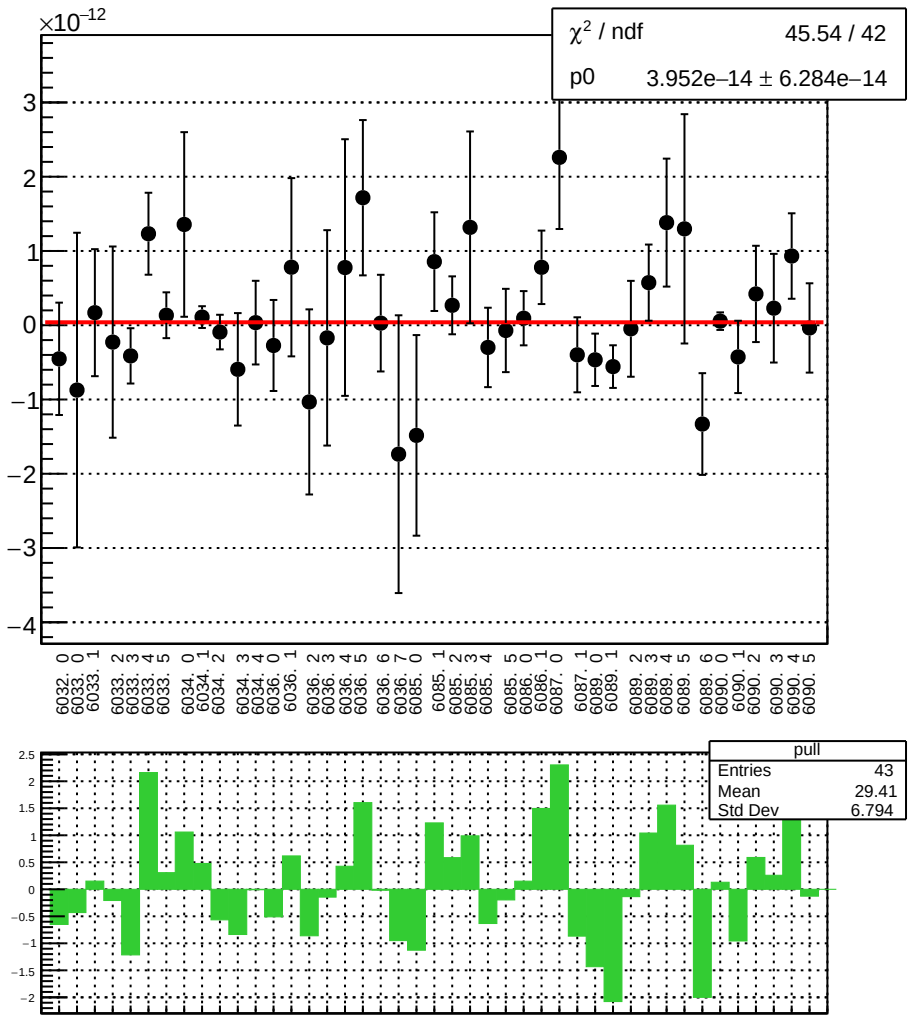

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.54e+04 / 42
p0 58.98 ± 0.06483
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

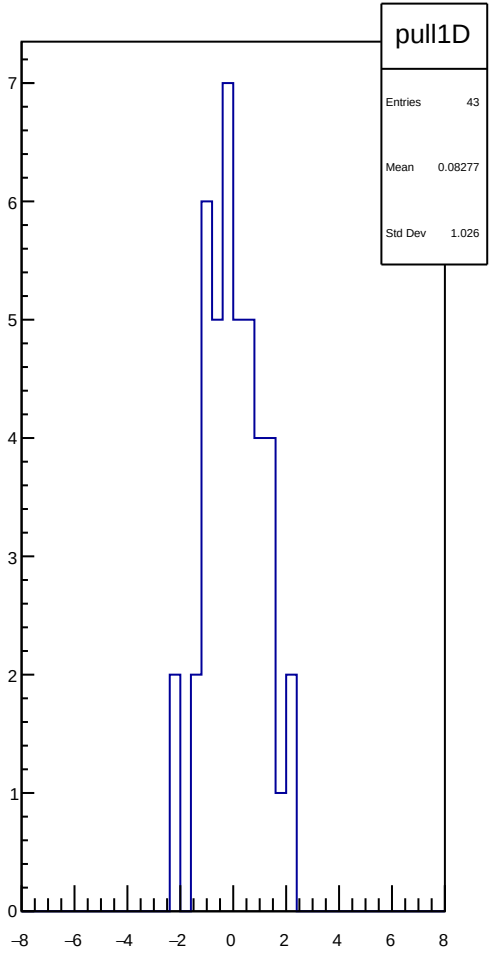
asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

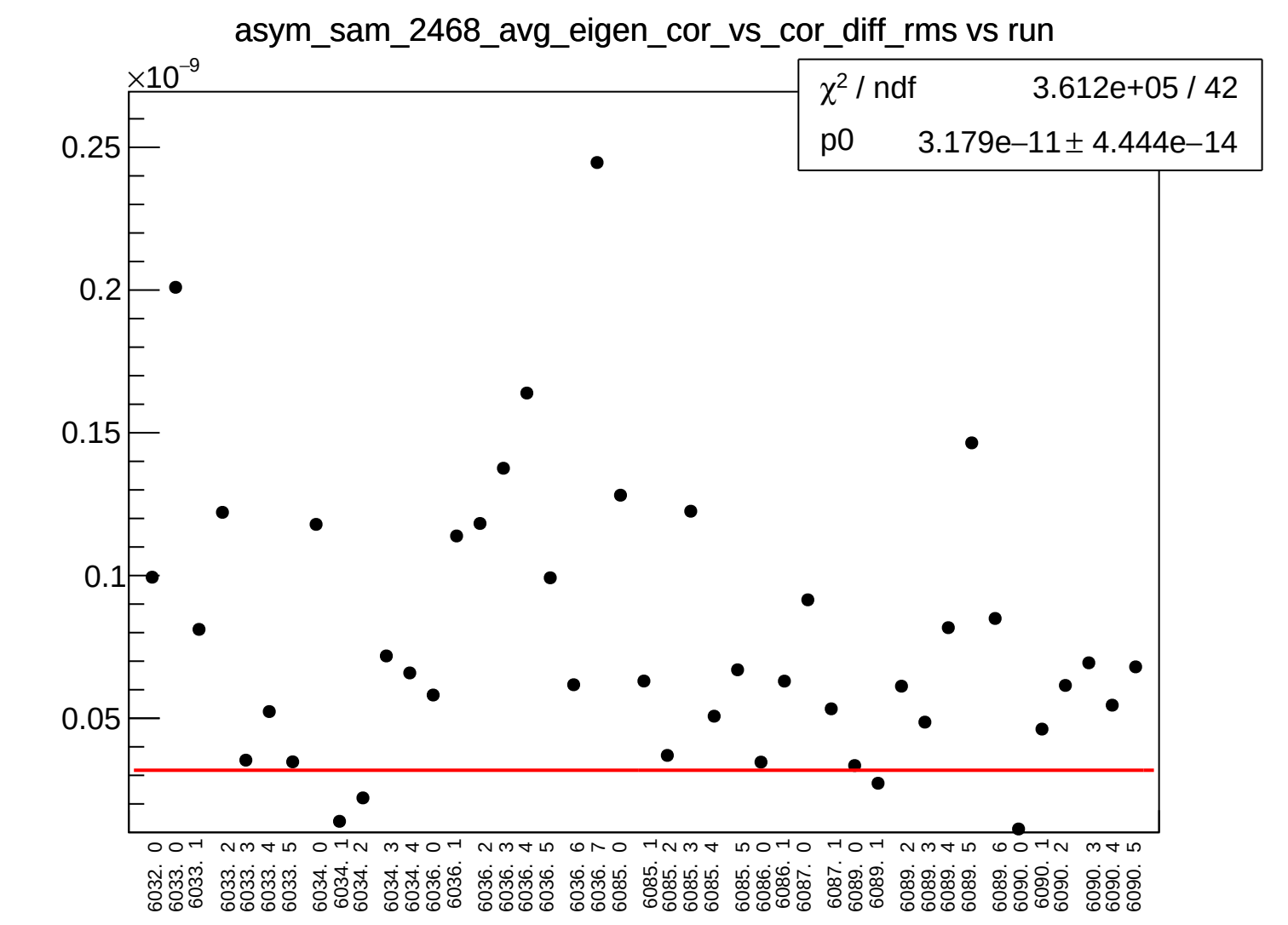


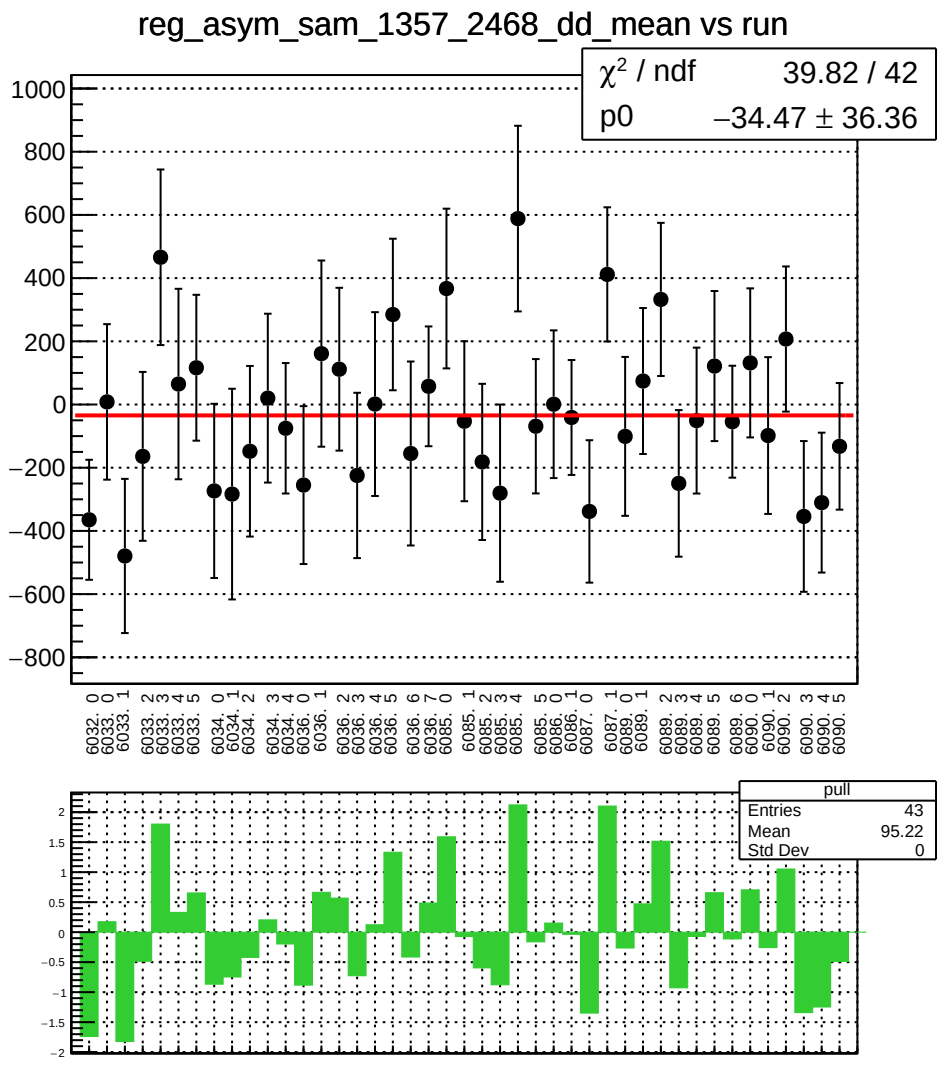


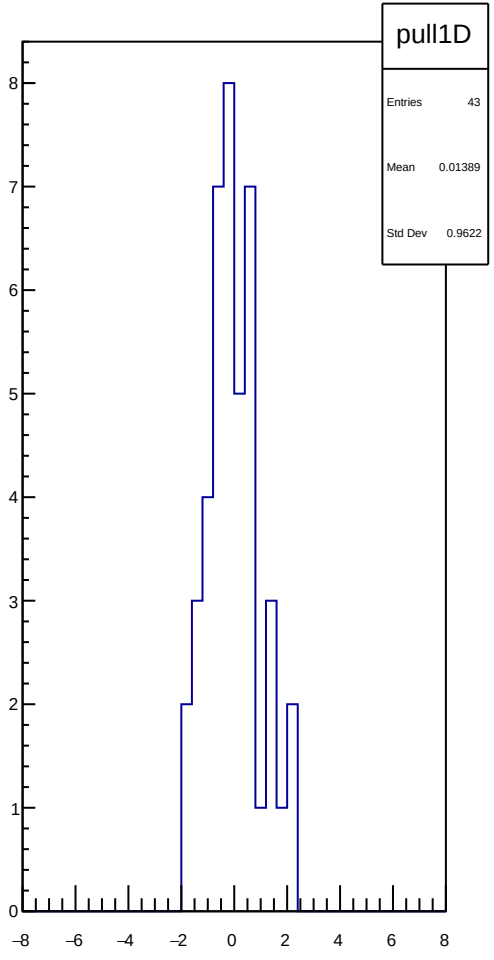

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.54e+04 / 42
p0 58.98 ± 0.06483
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

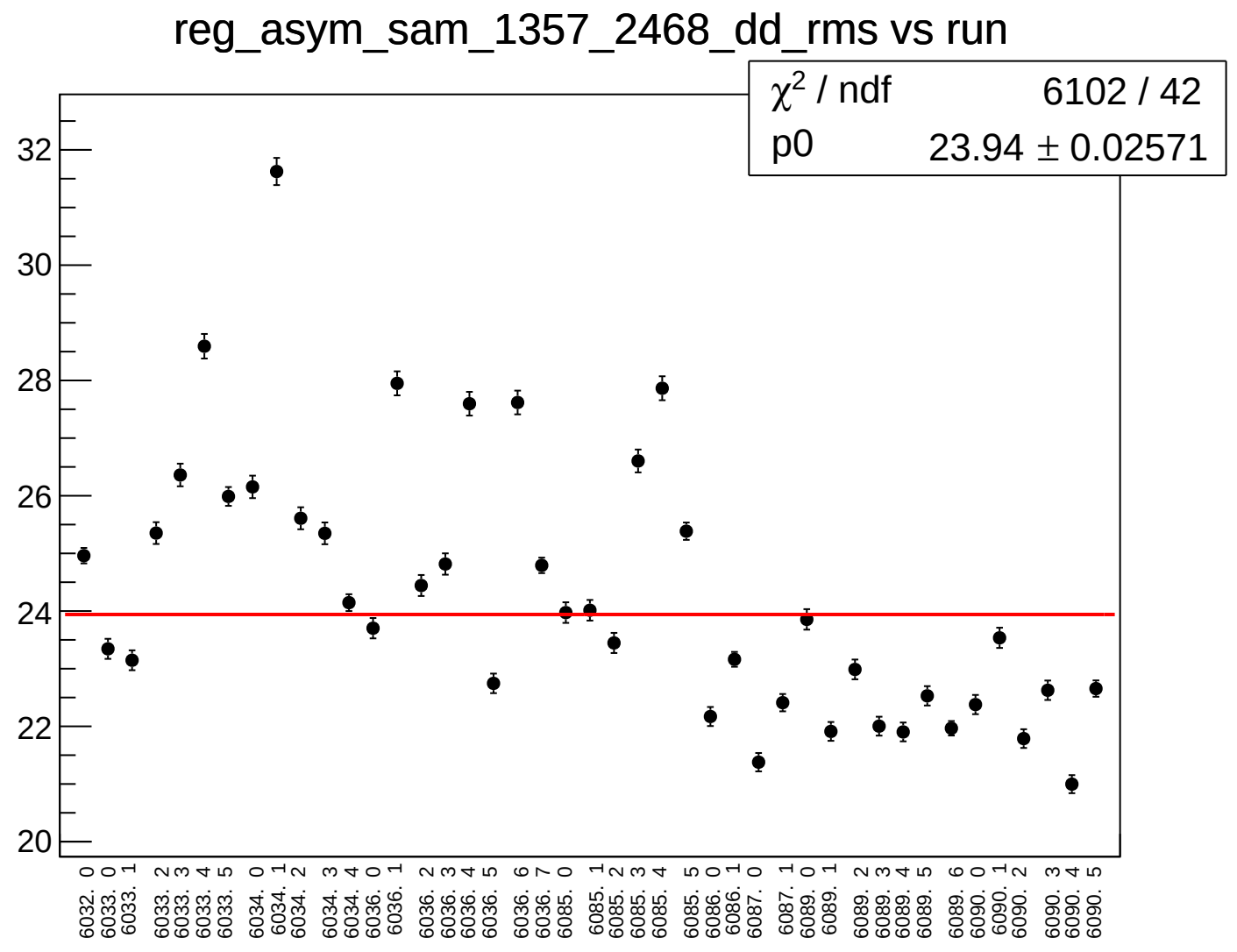

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.54 / 42
p0 3.952e−14 ± 6.284e−14
pull
Entries 43
Mean 29.41
Std Dev 6.794

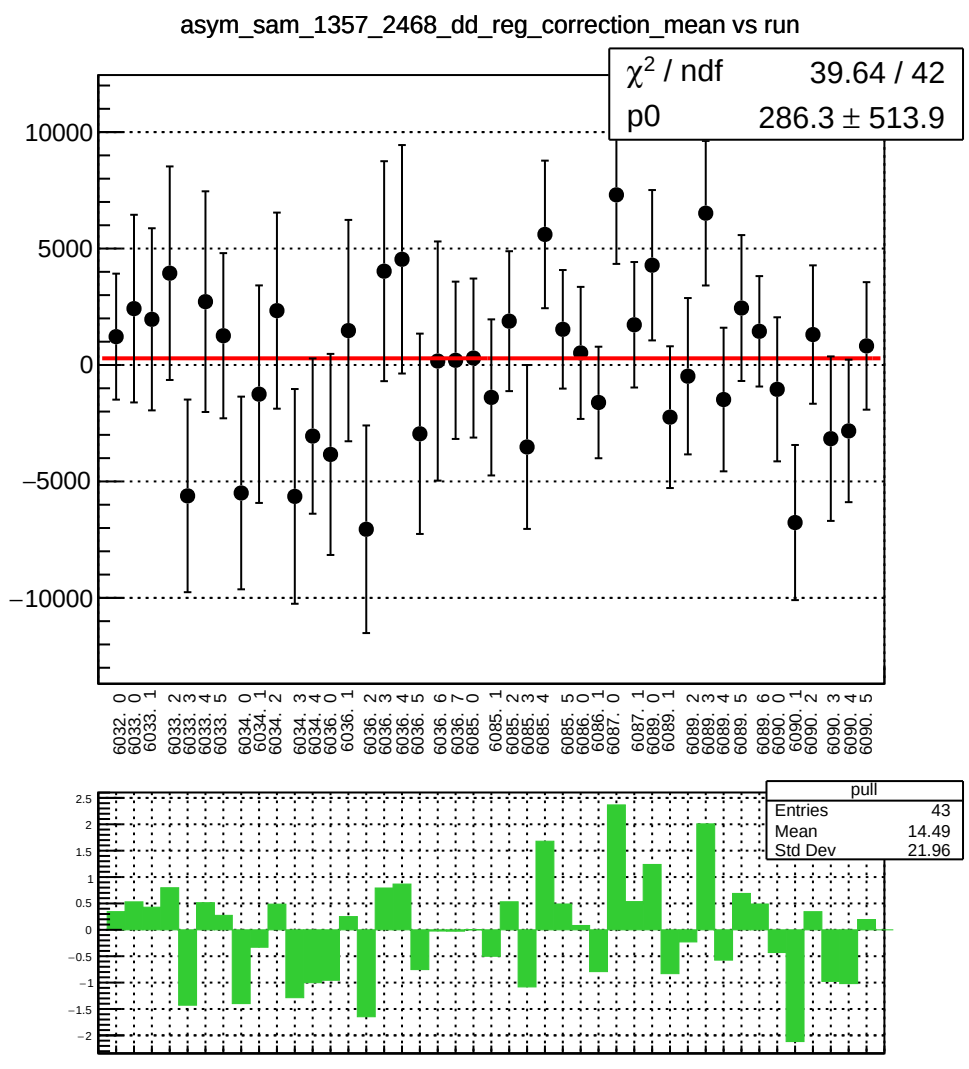

pull1D
Entries 43
Mean 0.08277
Std Dev 1.026

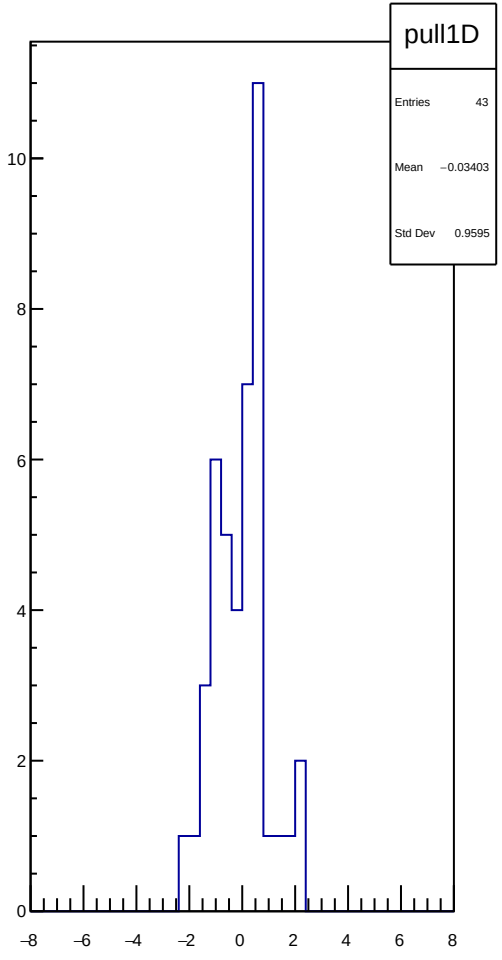

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.612e+05 / 42
p0 3.179e−11 ± 4.444e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

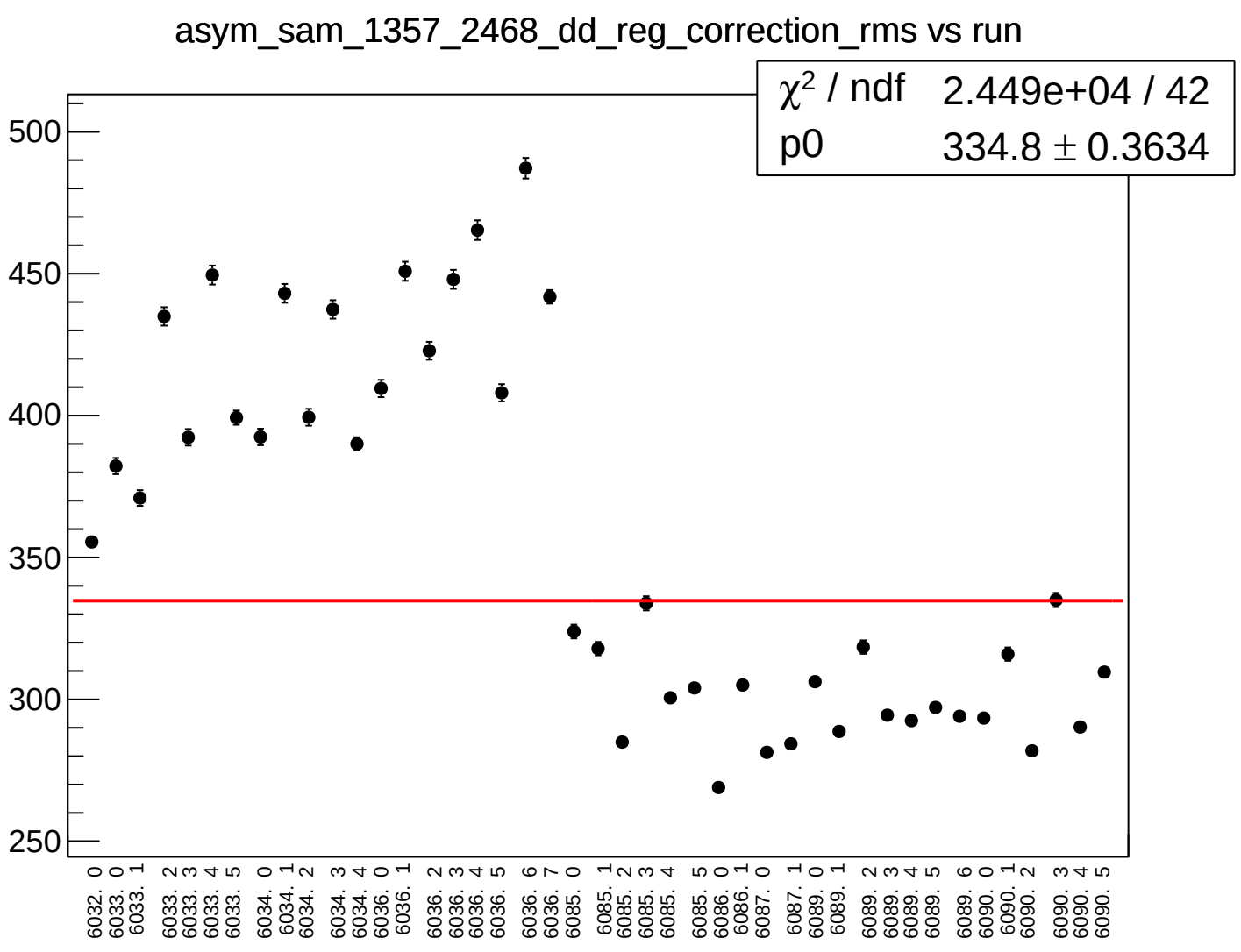

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.82 / 42
p0 −34.47 ± 36.36
pull
Entries 43
Mean 95.22
Std Dev 0

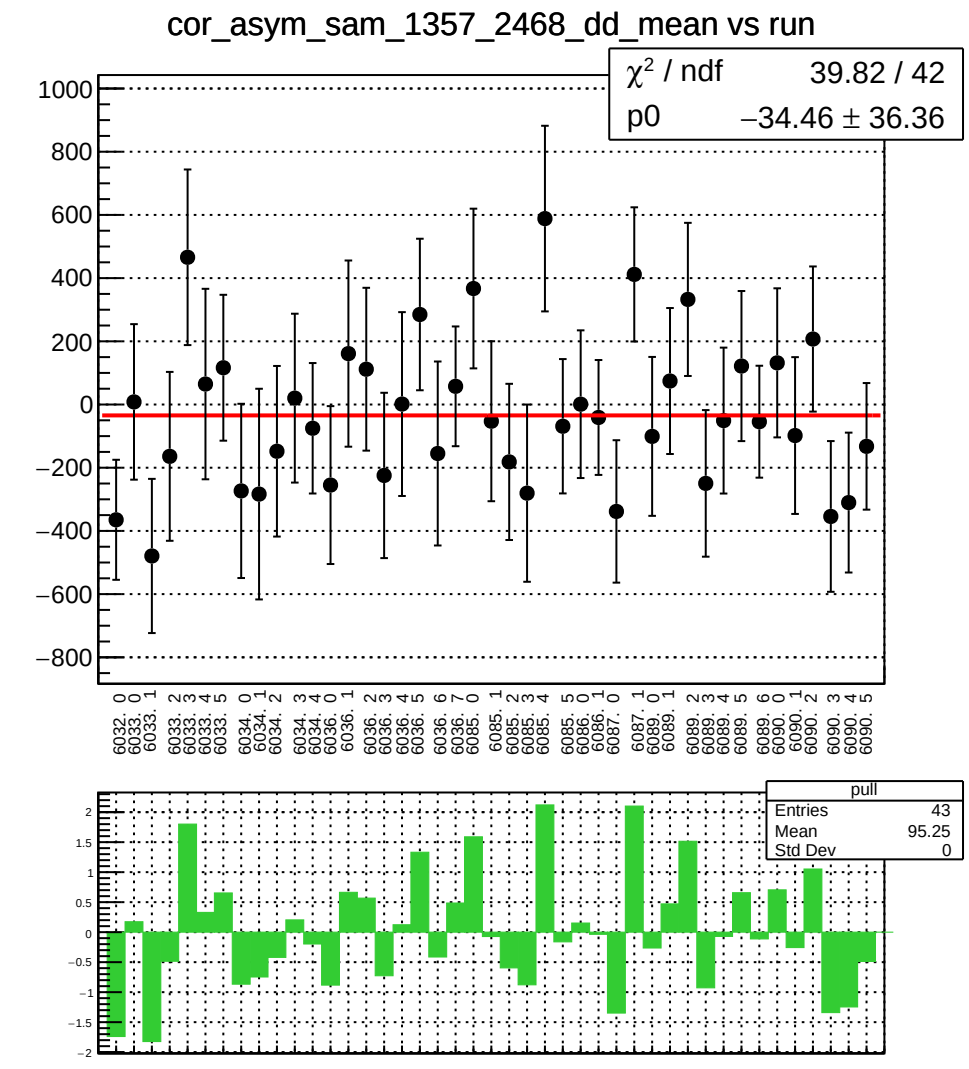

pull1D
Entries 43
Mean 0.01389
Std Dev 0.9622

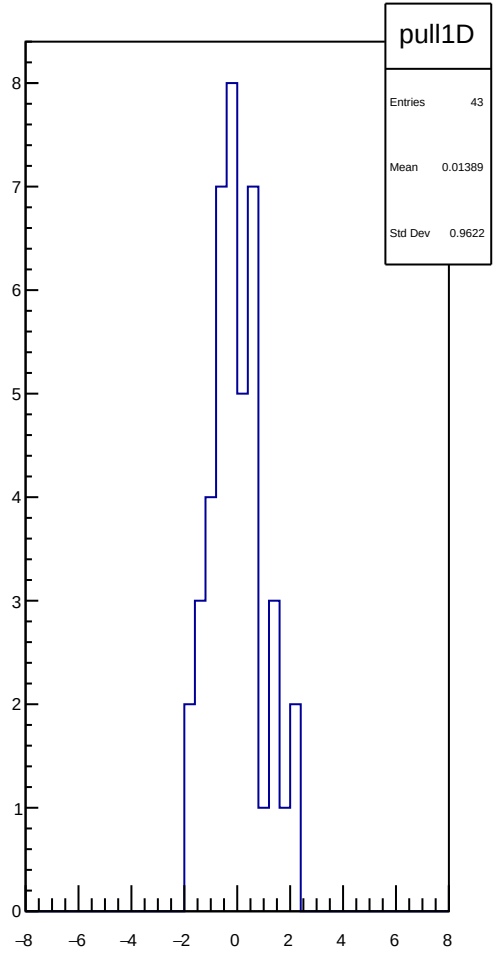

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6102 / 42
p0 23.94 ± 0.02571
32
30
28
26
24
22
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

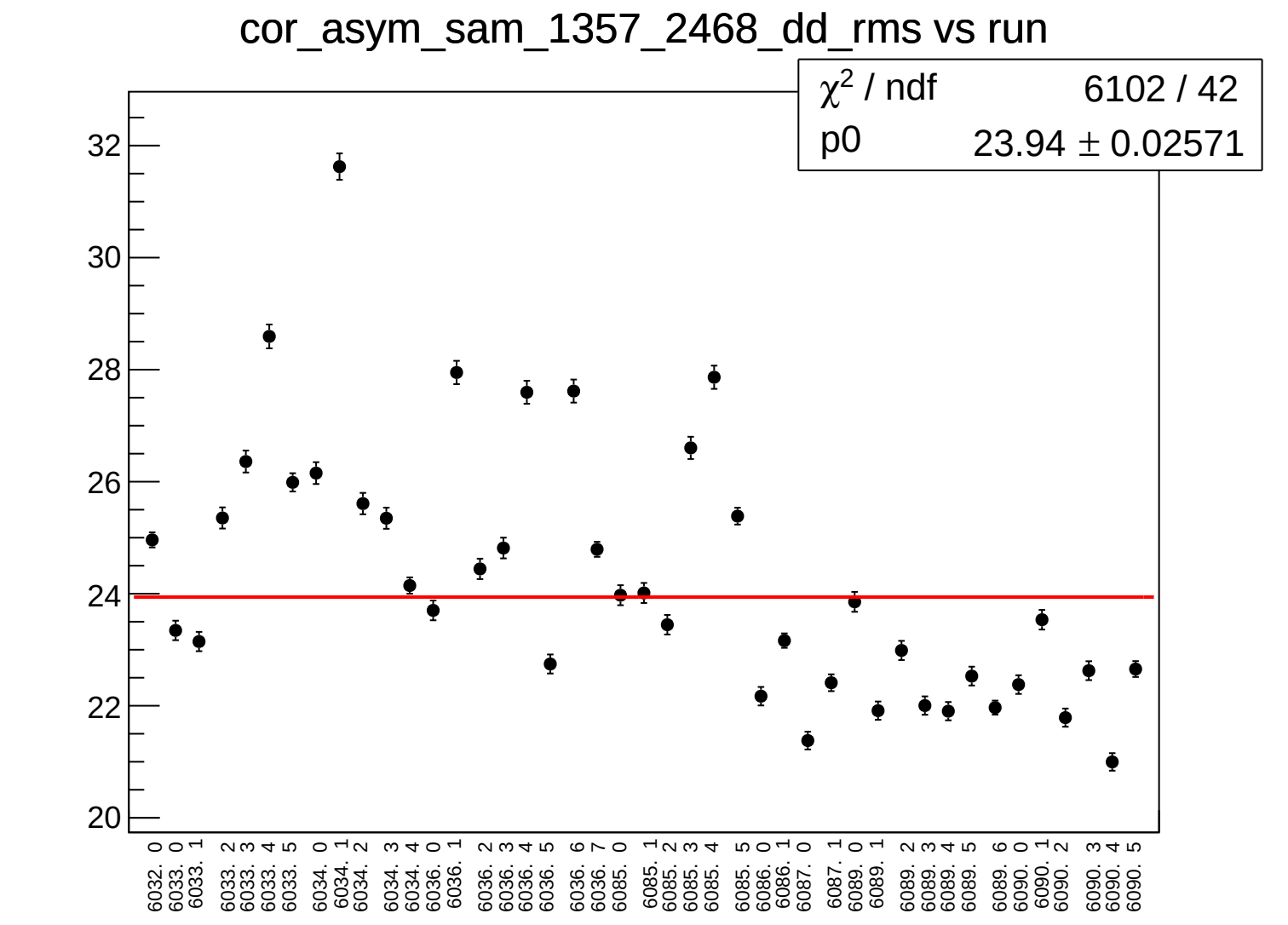

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 39.64 / 42
p0 286.3 ± 513.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.49
Std Dev 21.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

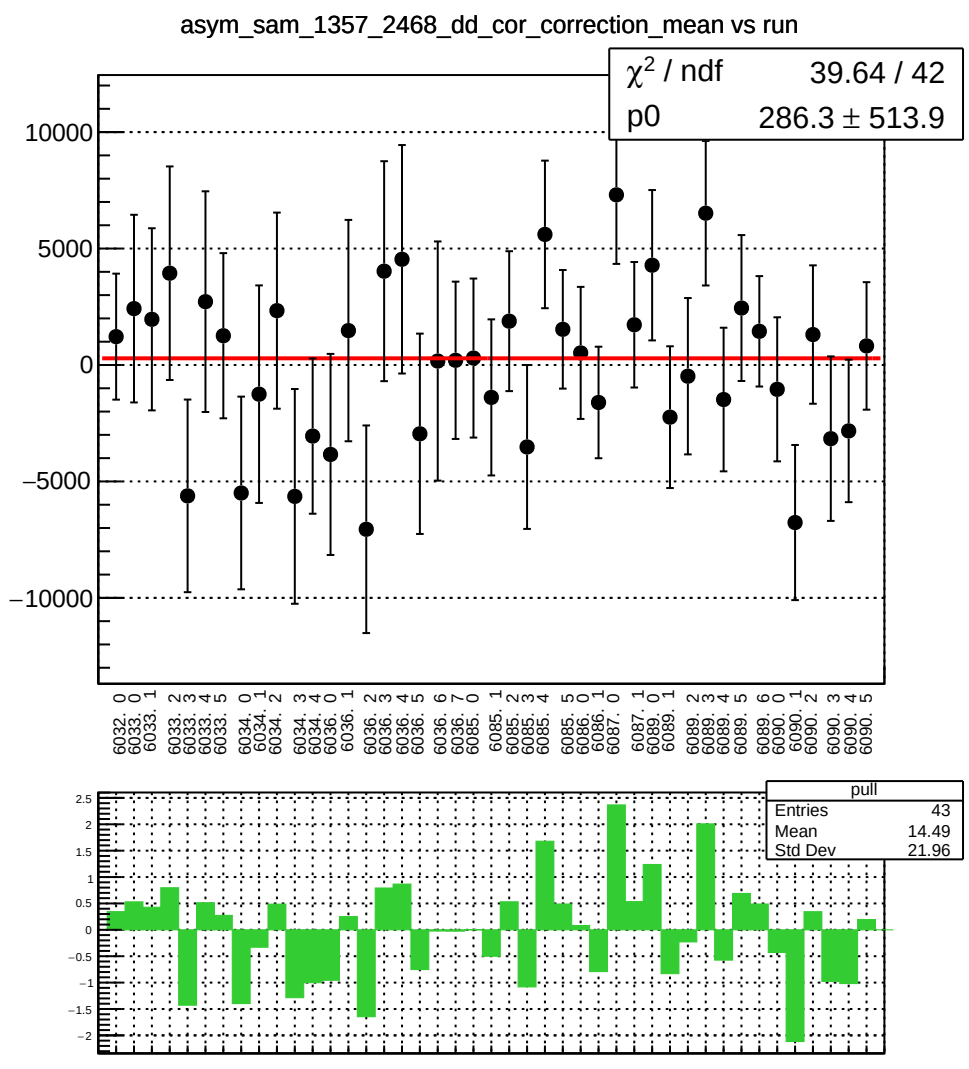

pull1D
Entries 43
Mean −0.03403
Std Dev 0.9595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

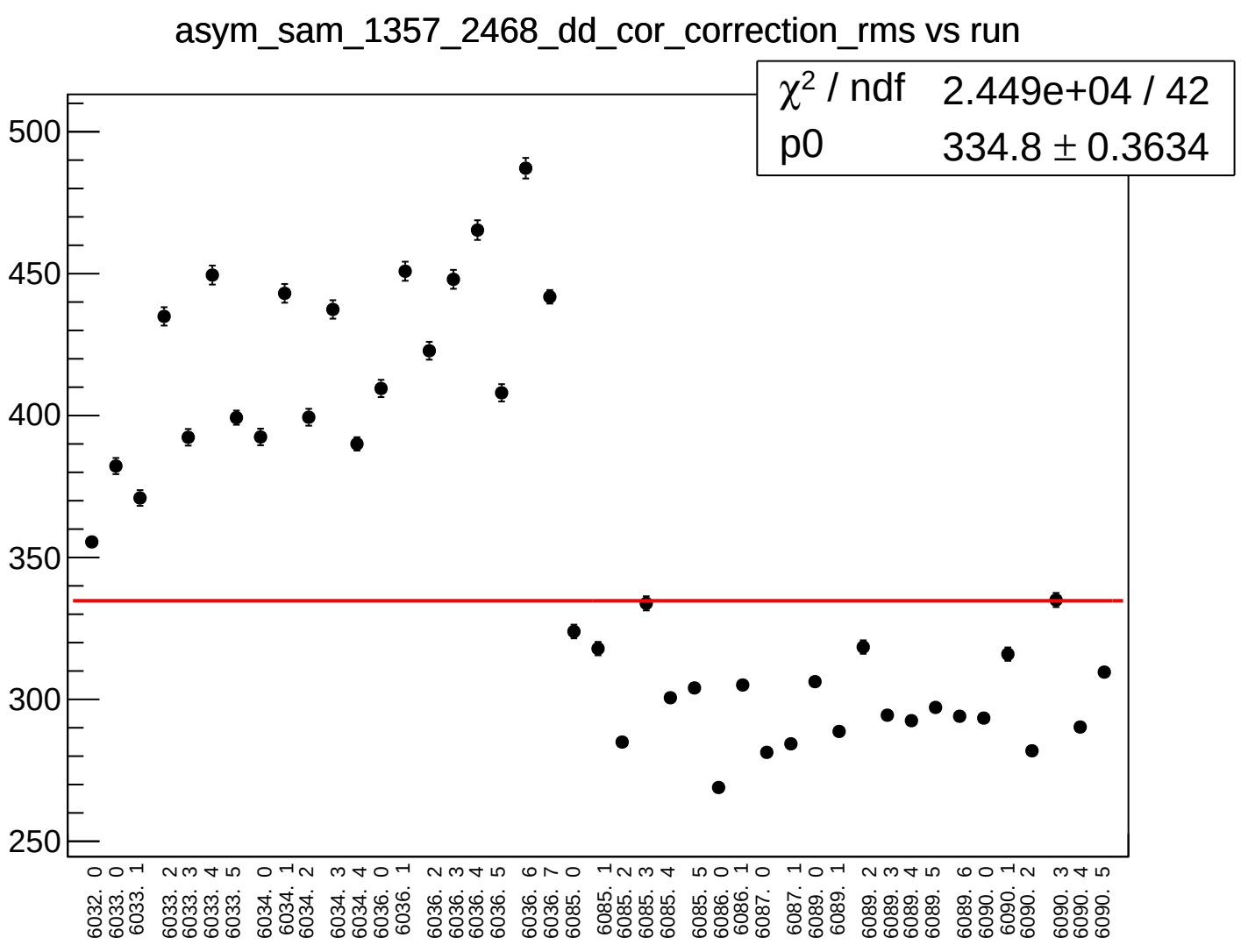

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2.449e+04 / 42
p0 334.8 ± 0.3634
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

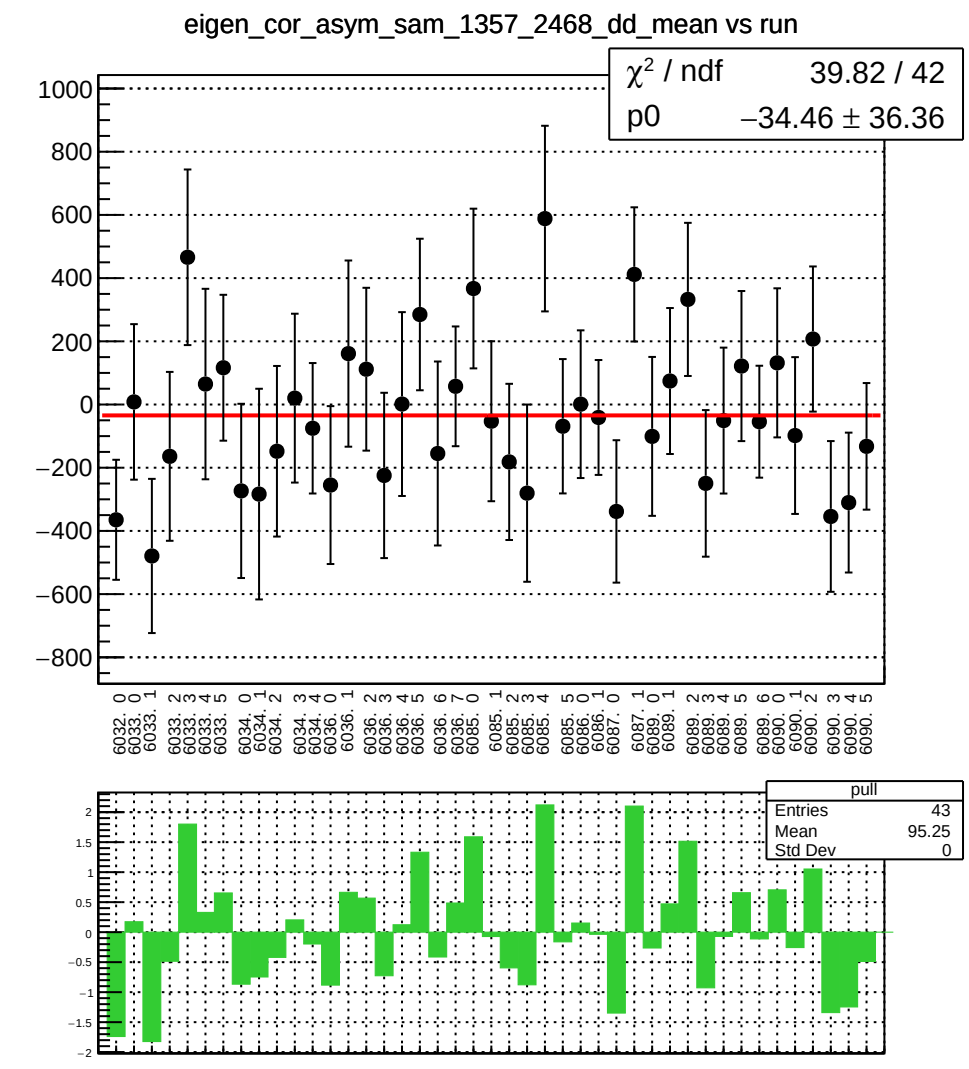

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.82 / 42
p0 −34.46 ± 36.36
pull
Entries 43
Mean 95.25
Std Dev 0

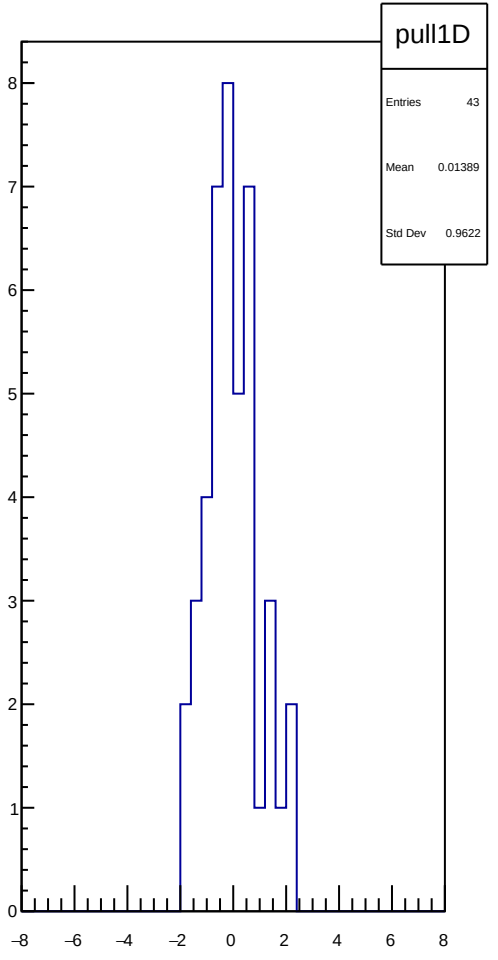

pull1D
Entries 43
Mean 0.01389
Std Dev 0.9622

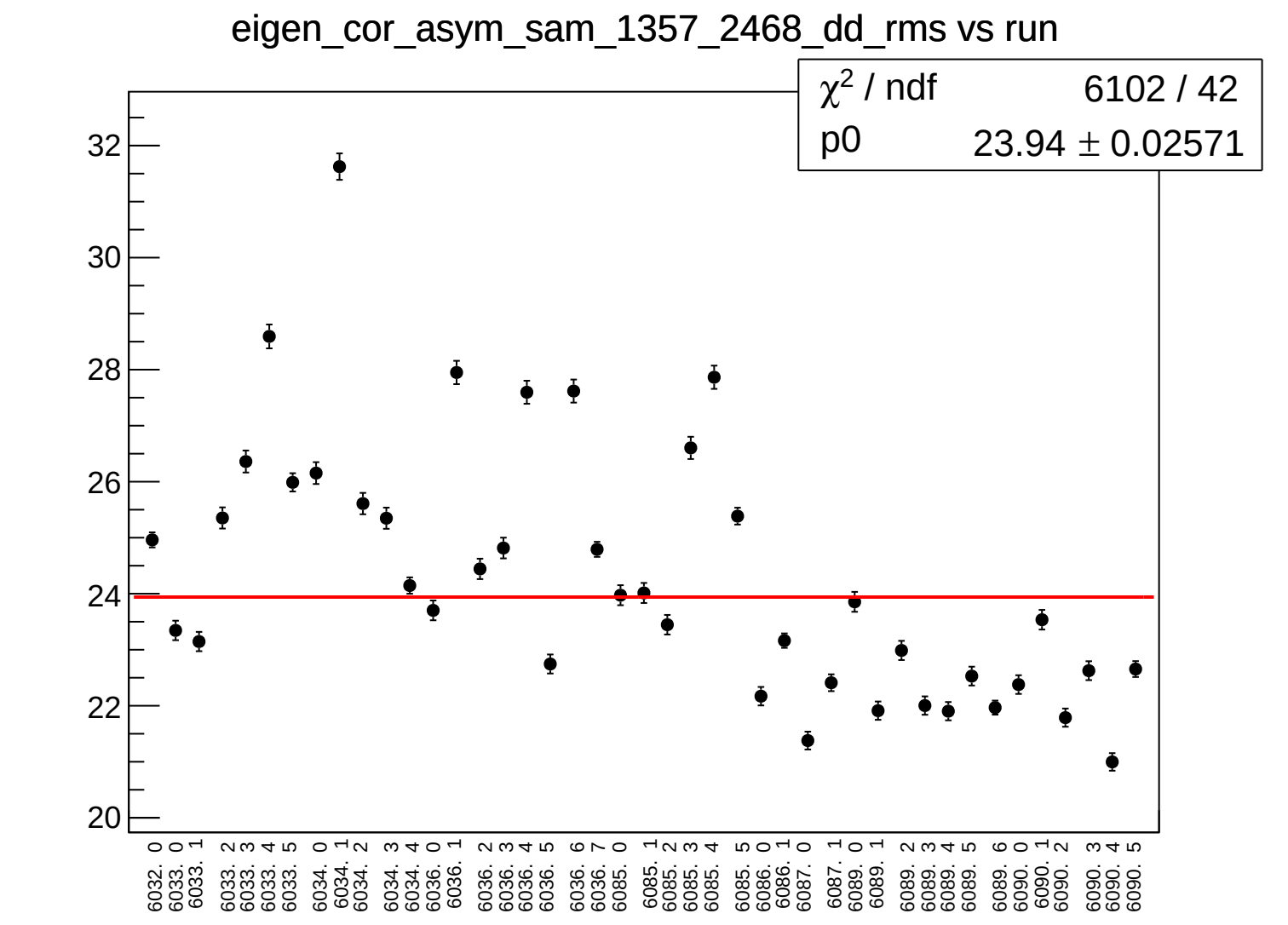

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6102 / 42
p0 23.94 ± 0.02571
32
30
28
26
24
22
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

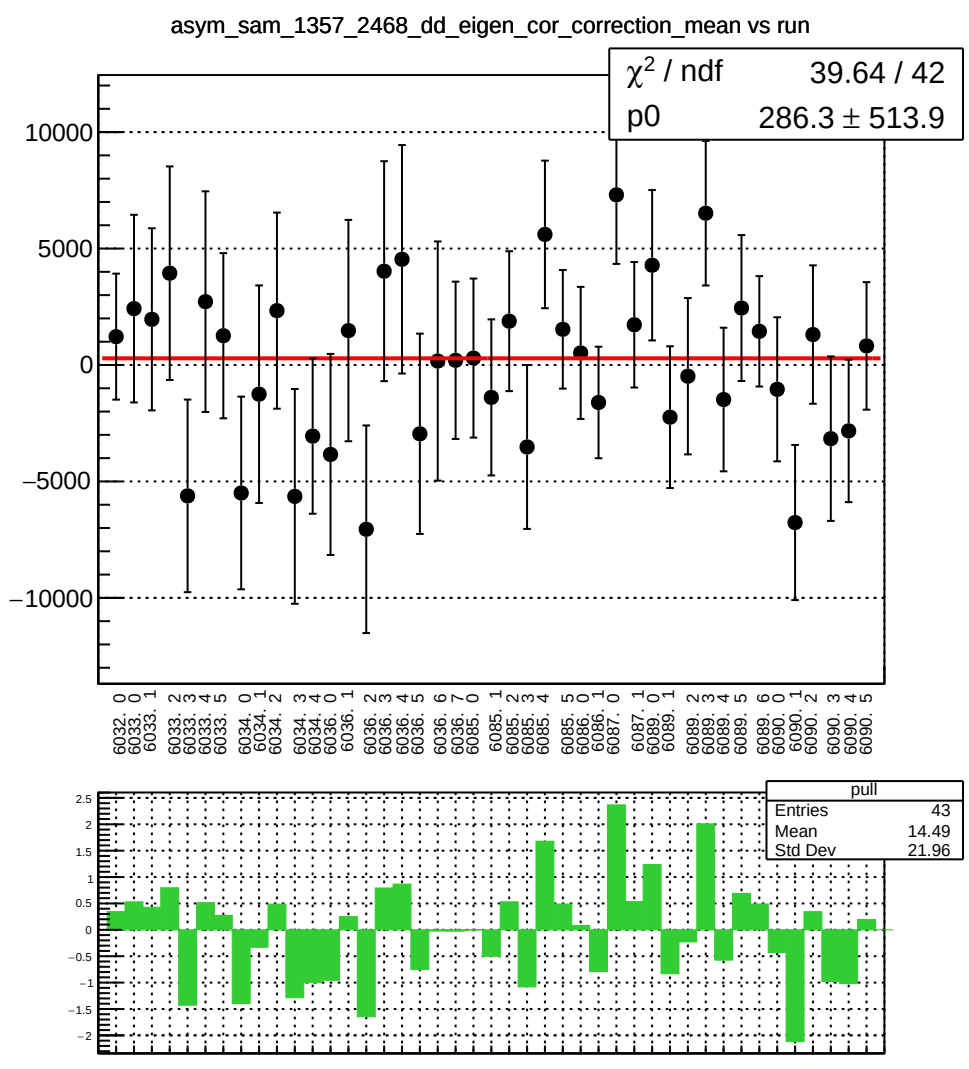

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 39.64 / 42
p0 286.3 ± 513.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.49
Std Dev 21.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03403
Std Dev 0.9595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

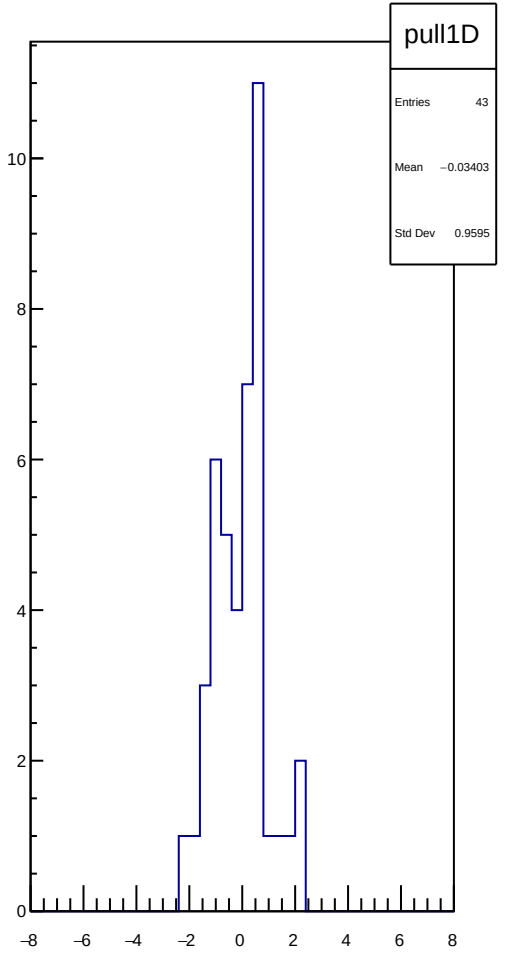

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2.449e+04 / 42
p0 334.8 ± 0.3634
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

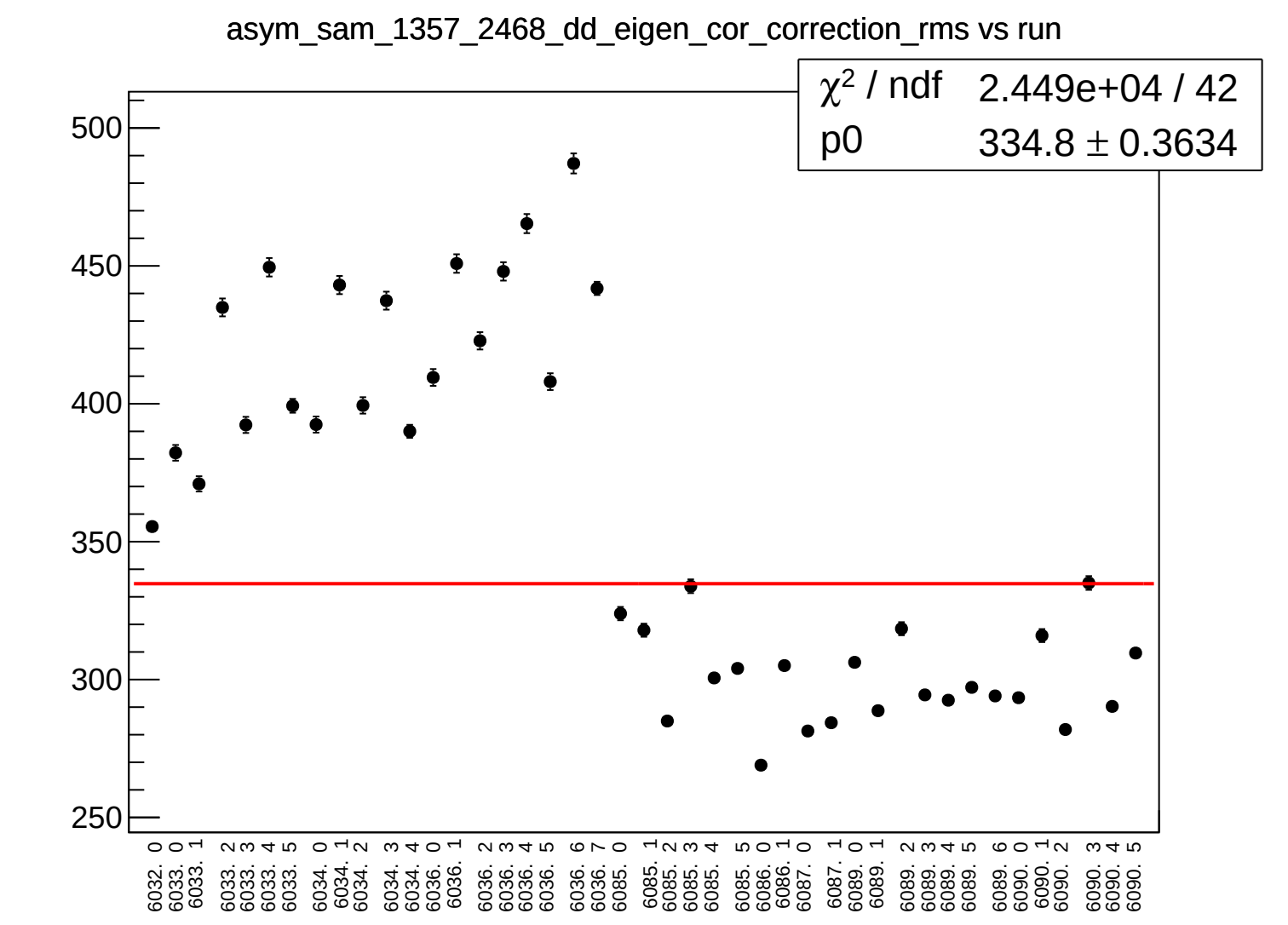

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.82 / 42
p0 −34.46 ± 36.36
1000
800
600
400
200
0
−200
−400
−600
−800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 95.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

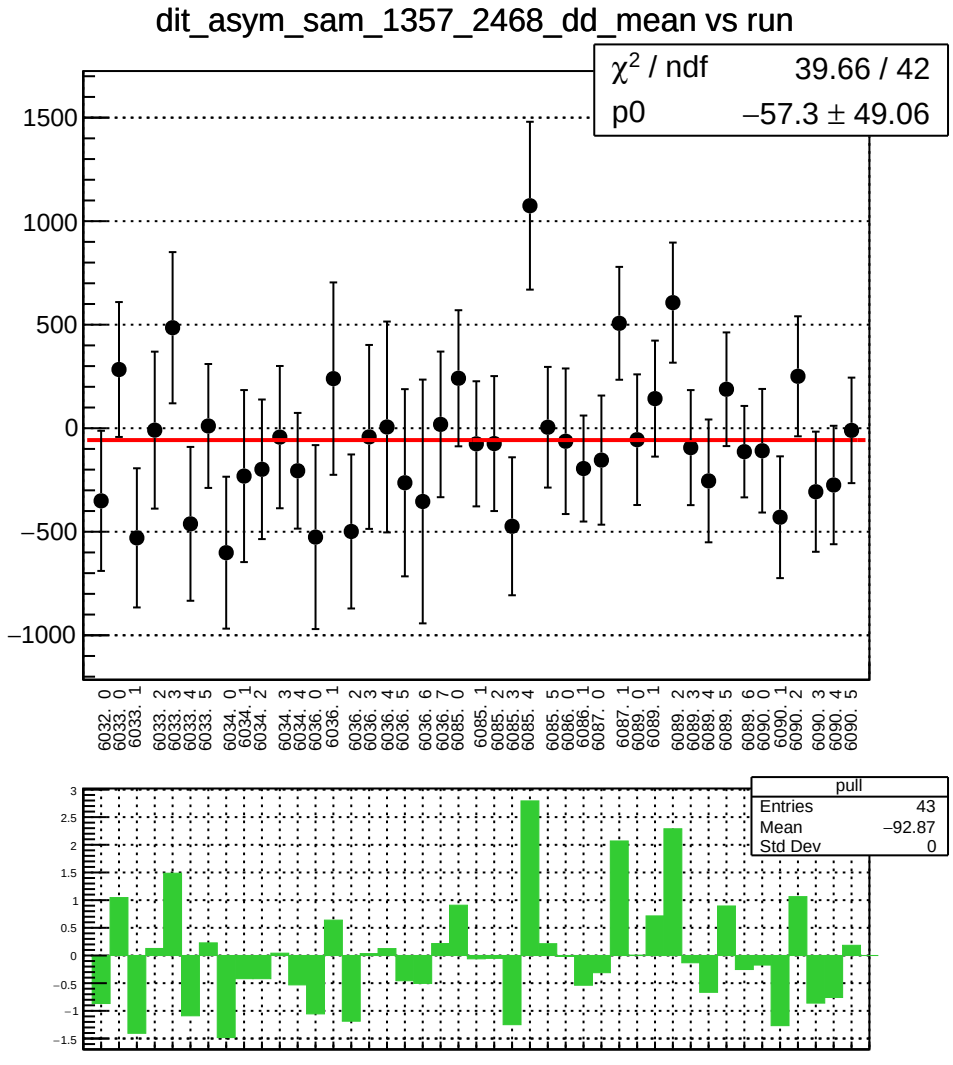

pull1D
Entries 43
Mean 0.01389
Std Dev 0.9622
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

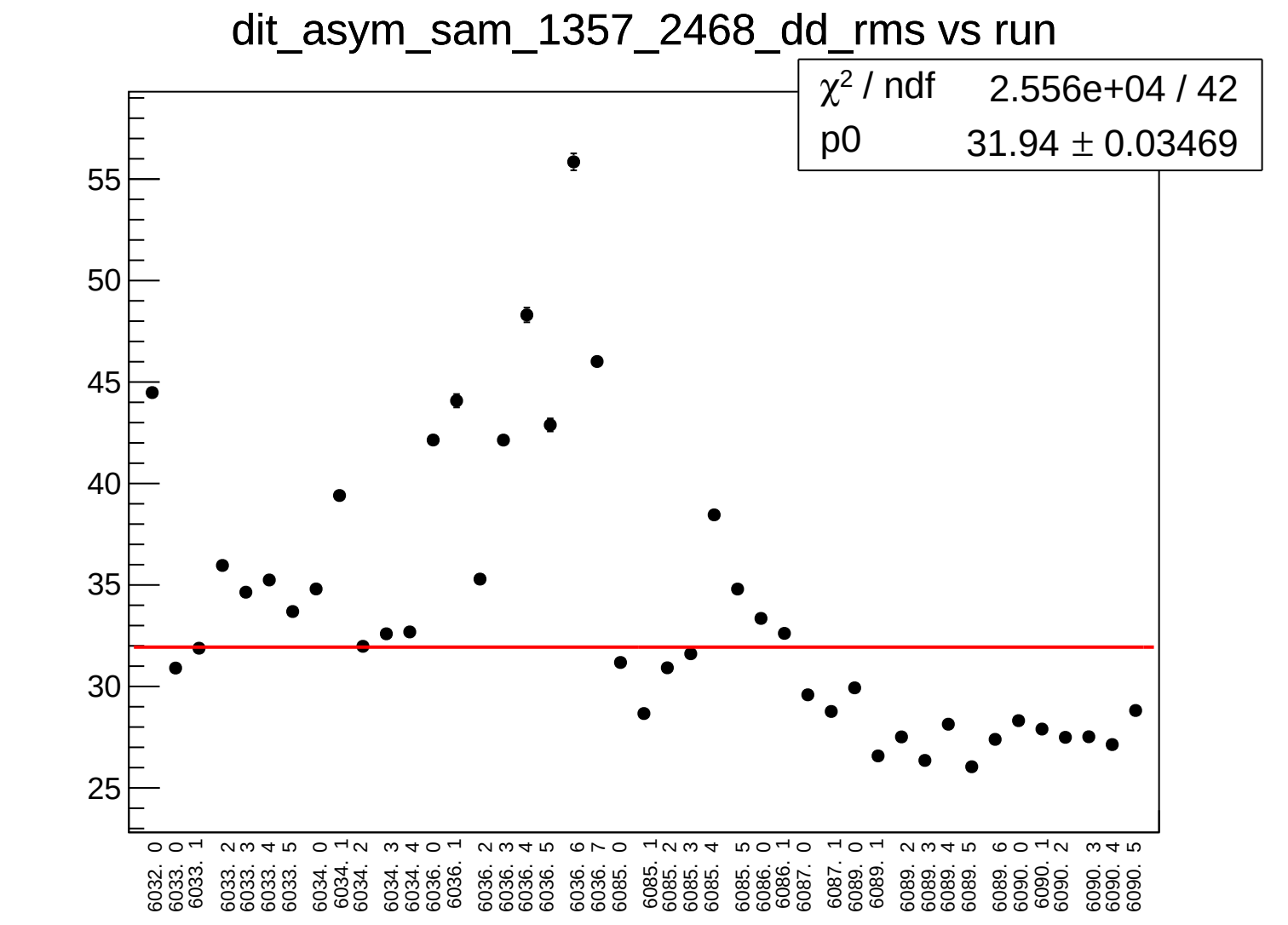

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6102 / 42
p0 23.94 ± 0.02571
32
30
28
26
24
22
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

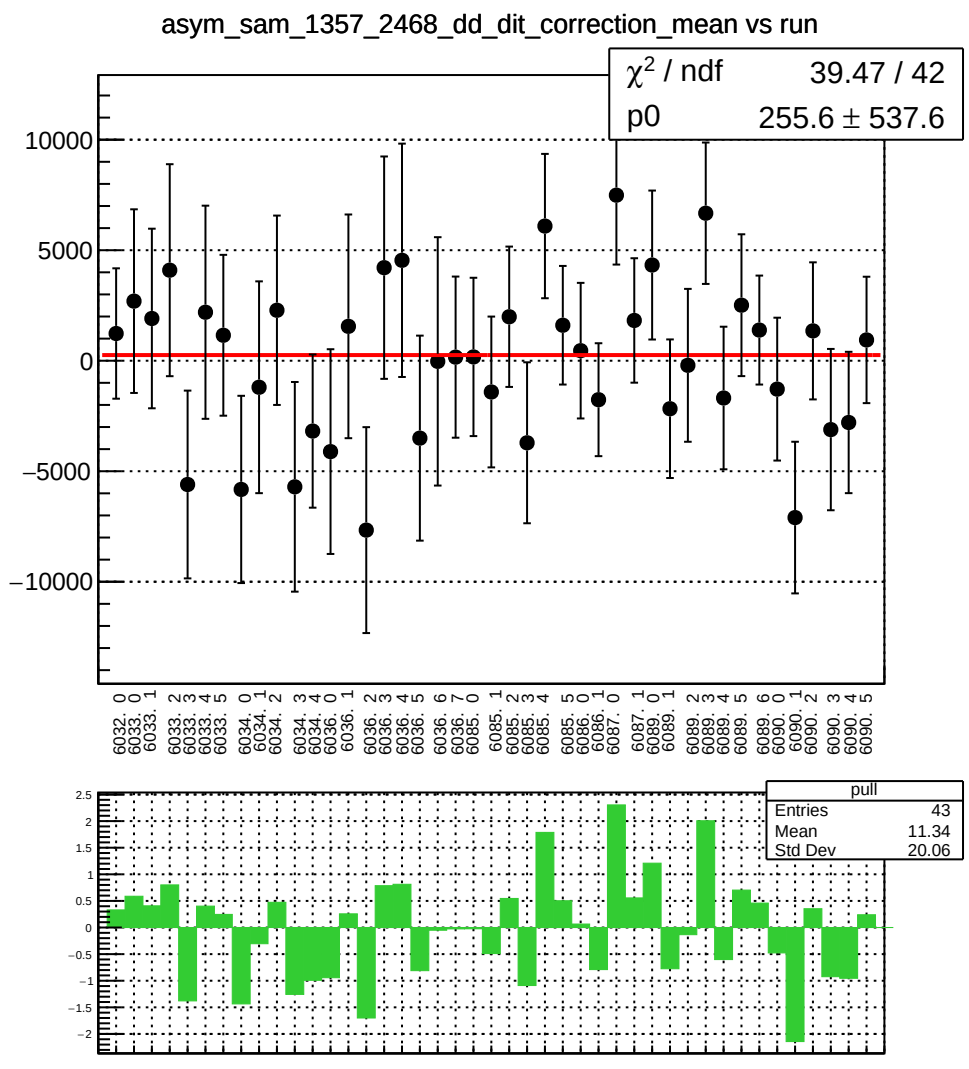

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 39.64 / 42
p0 286.3 ± 513.9
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 14.49
Std Dev 21.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

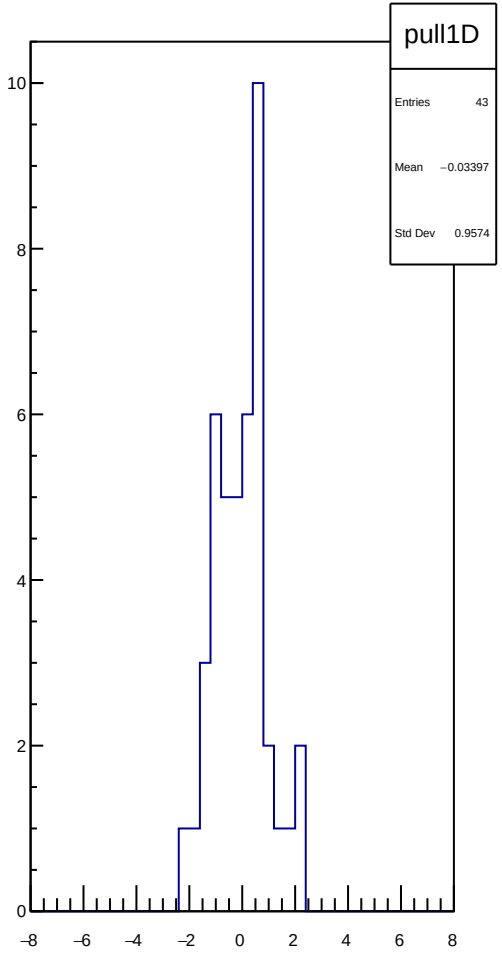

pull1D
Entries 43
Mean −0.03403
Std Dev 0.9595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

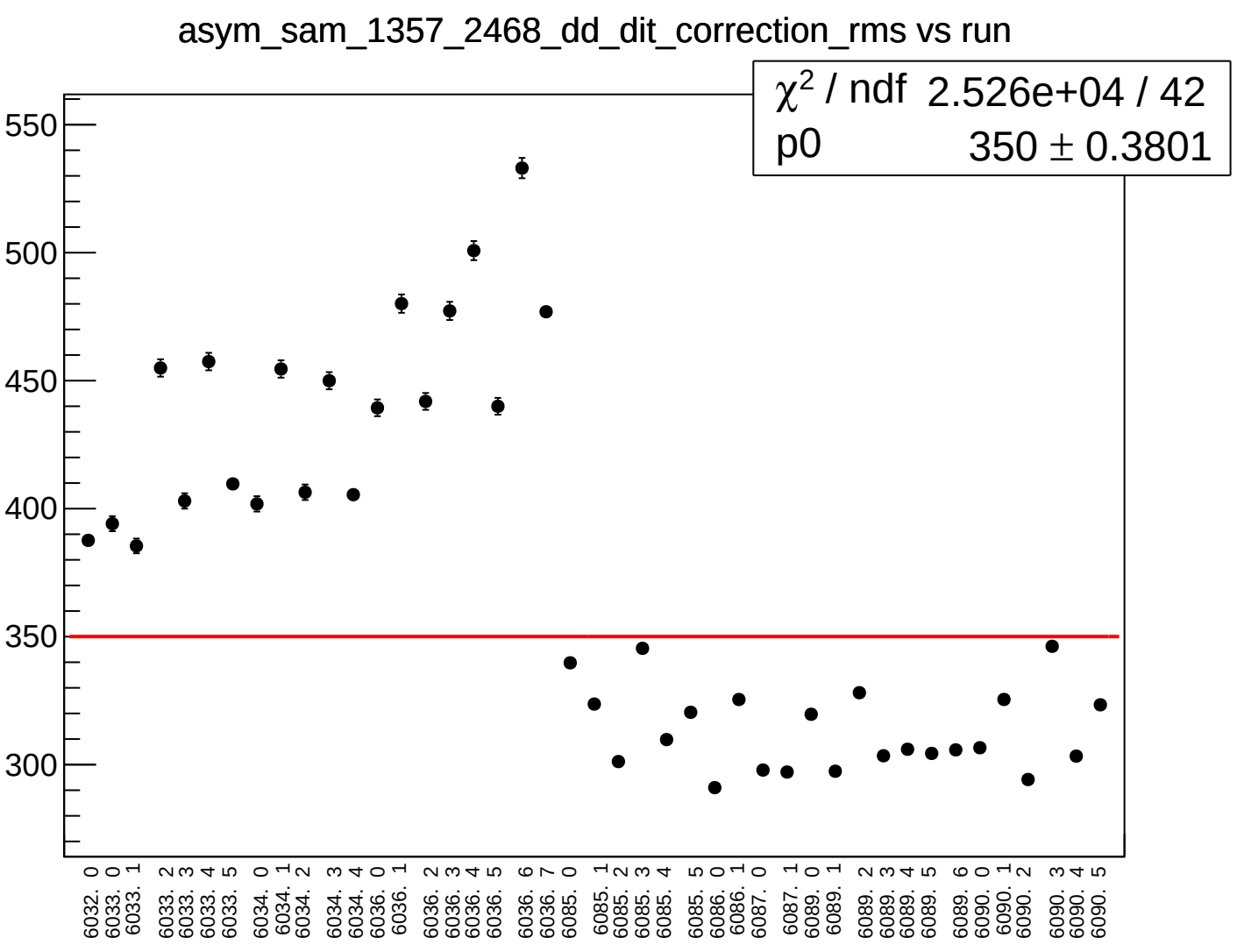

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.449e+04 / 42
p0 334.8 ± 0.3634
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

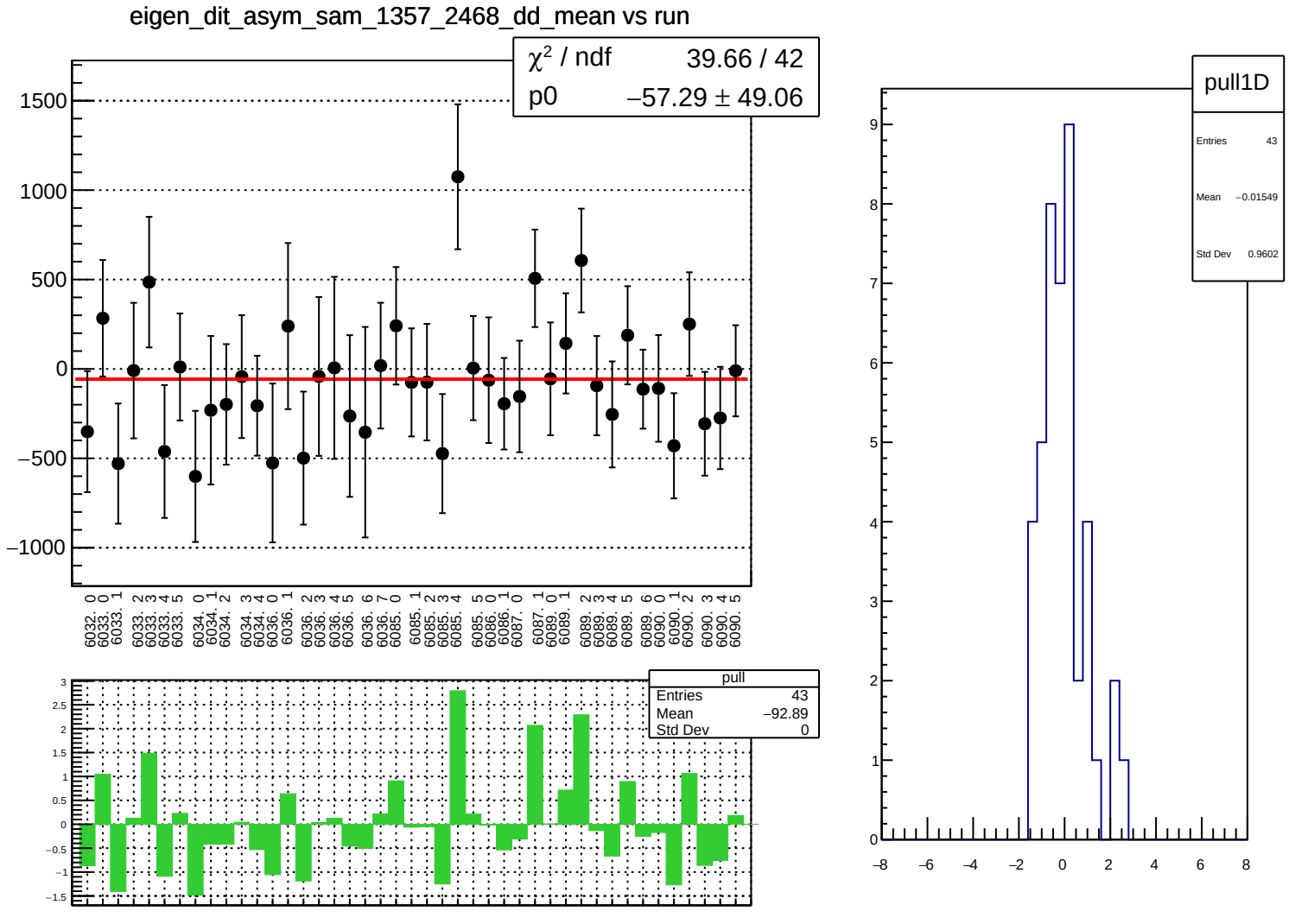

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.66 / 42
p0 −57.3 ± 49.06
1500
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −92.87
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0155
Std Dev 0.9602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

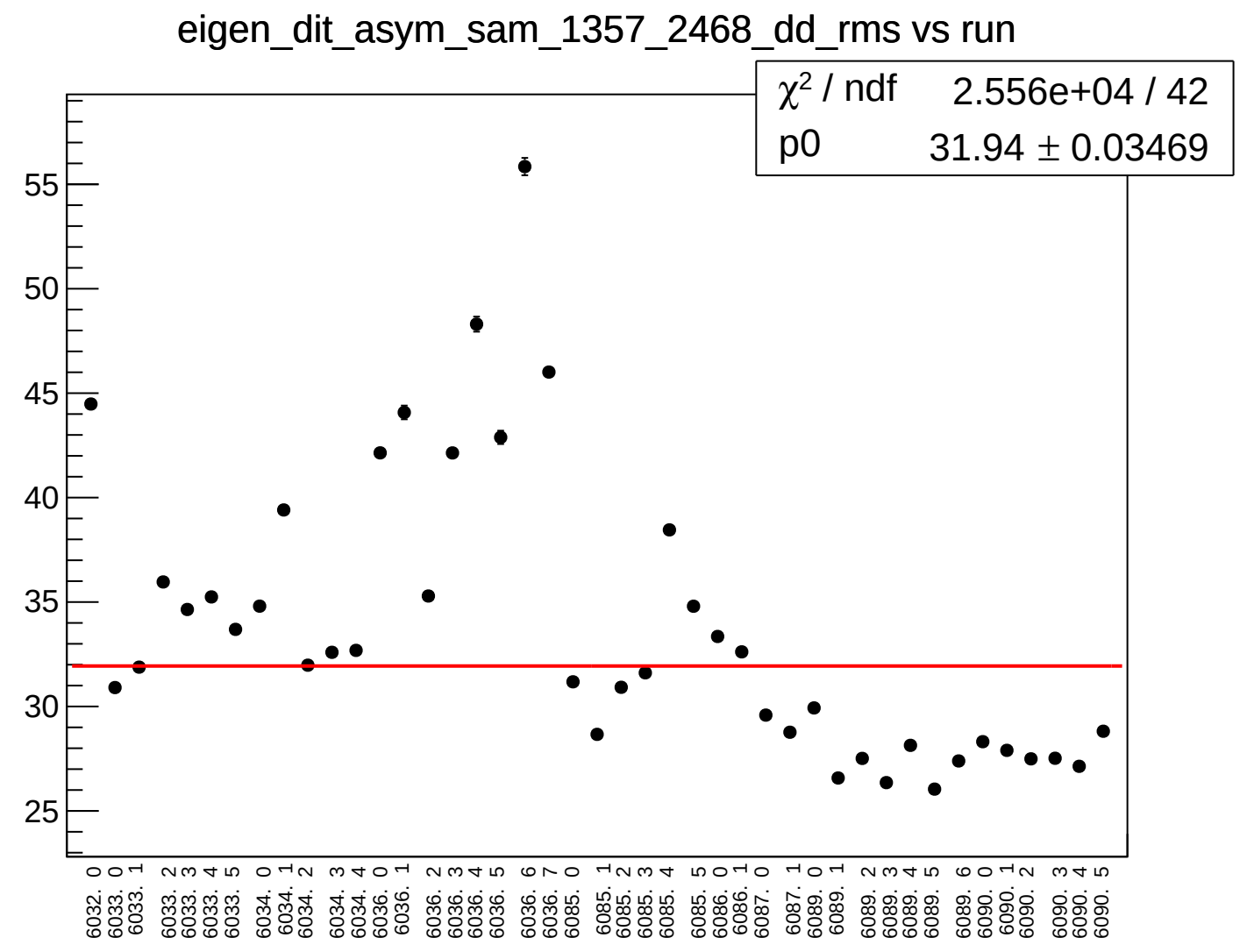

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.556e+04 / 42
p0 31.94 ± 0.03469
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

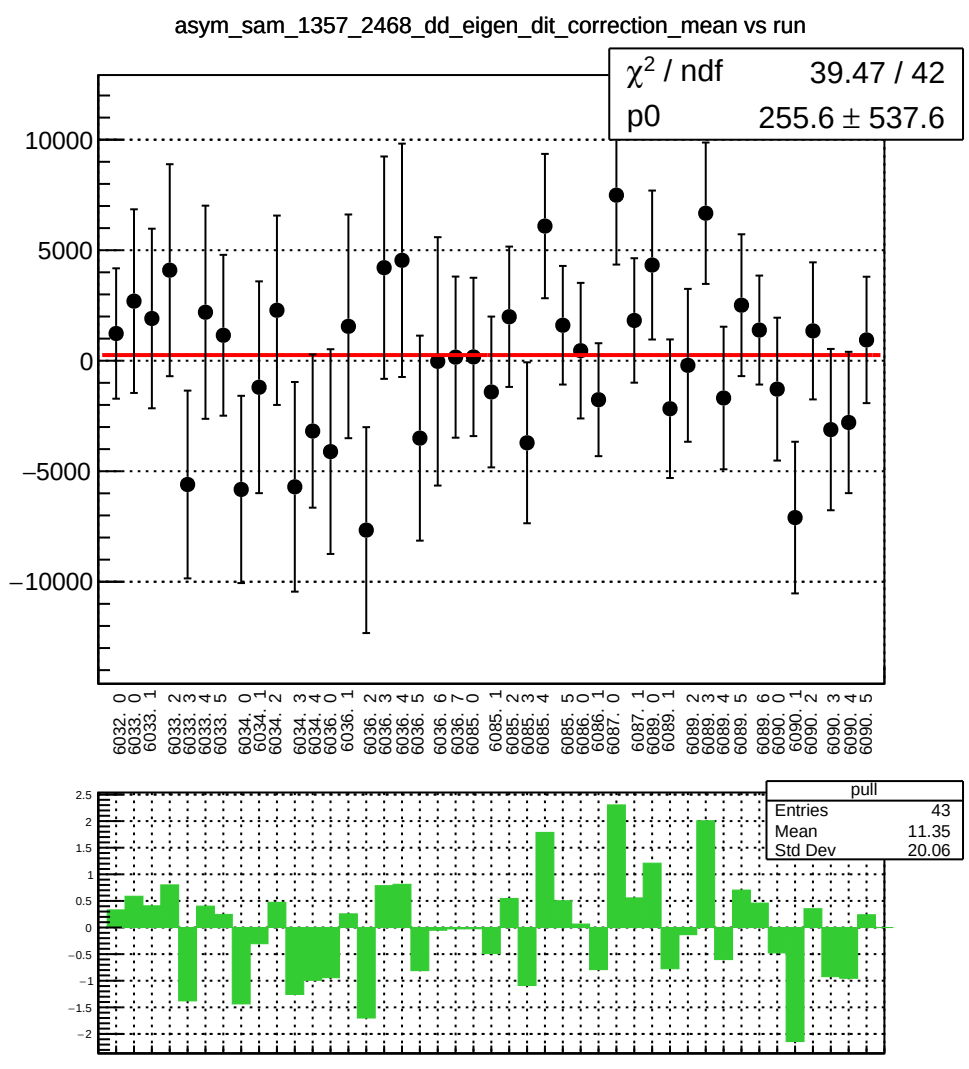

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 39.47 / 42
p0 255.6 ± 537.6
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.34
Std Dev 20.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

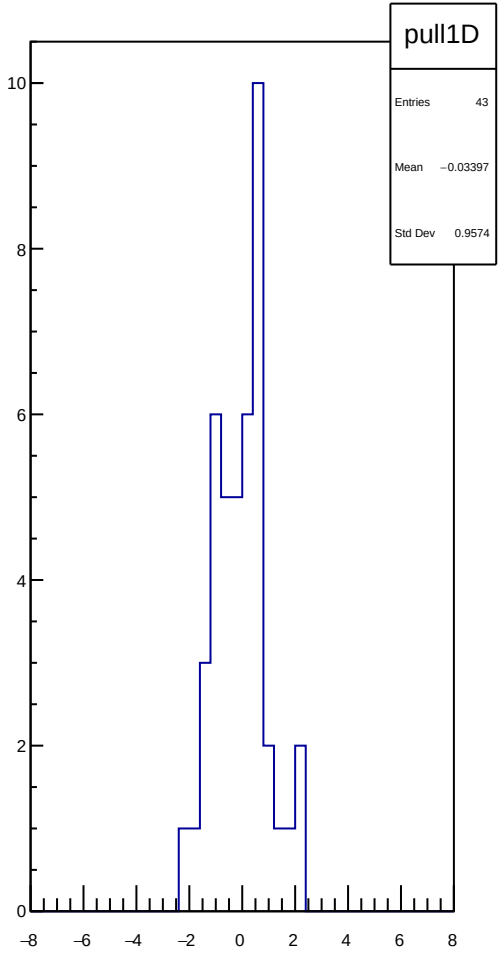

pull1D
Entries 43
Mean −0.03397
Std Dev 0.9574
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

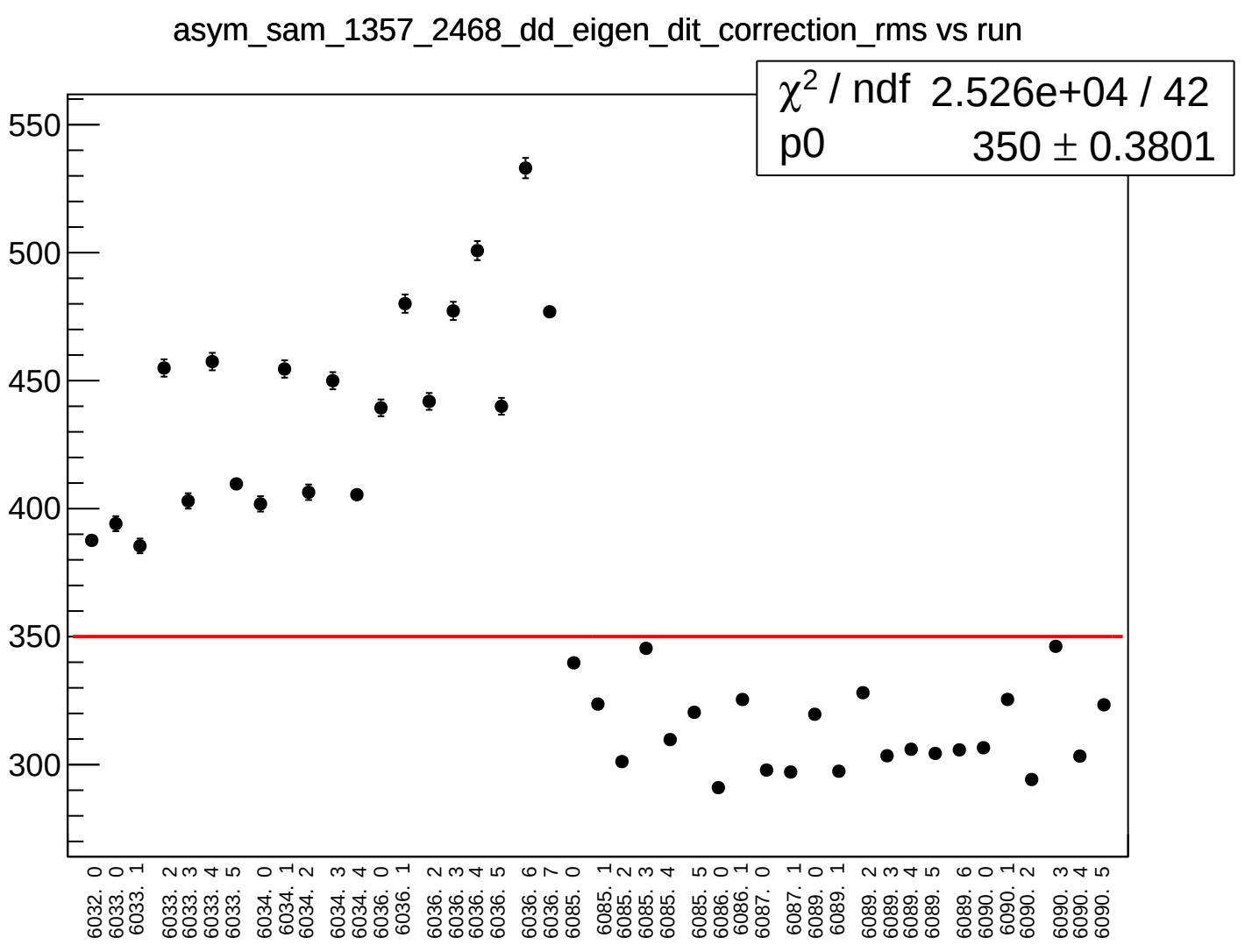

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2.526e+04 / 42
p0 350 ± 0.3801
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

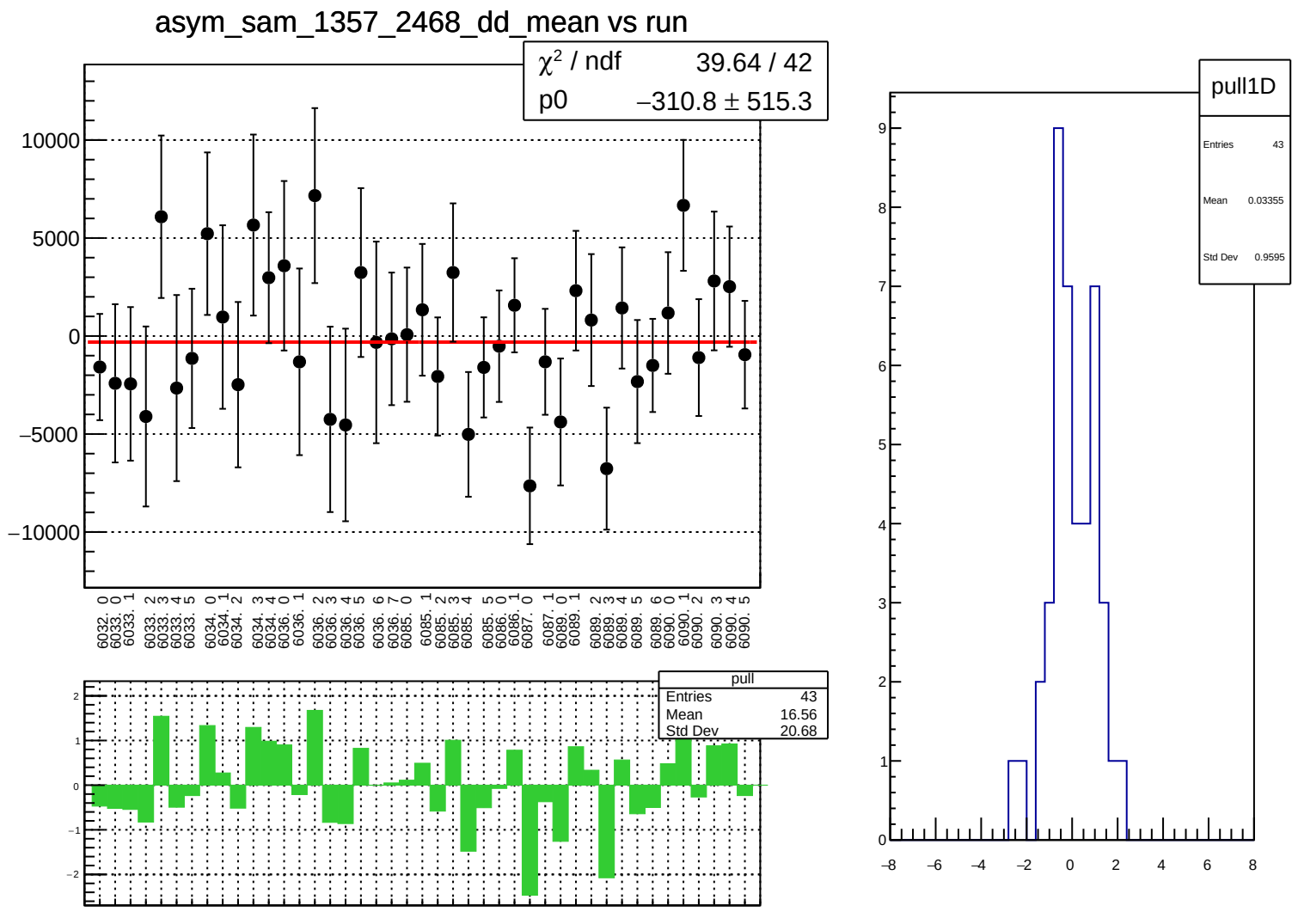

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.66 / 42
p0 −57.29 ± 49.06
1500
1000
500
0
−500
−1000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −92.89
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01549
Std Dev 0.9602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

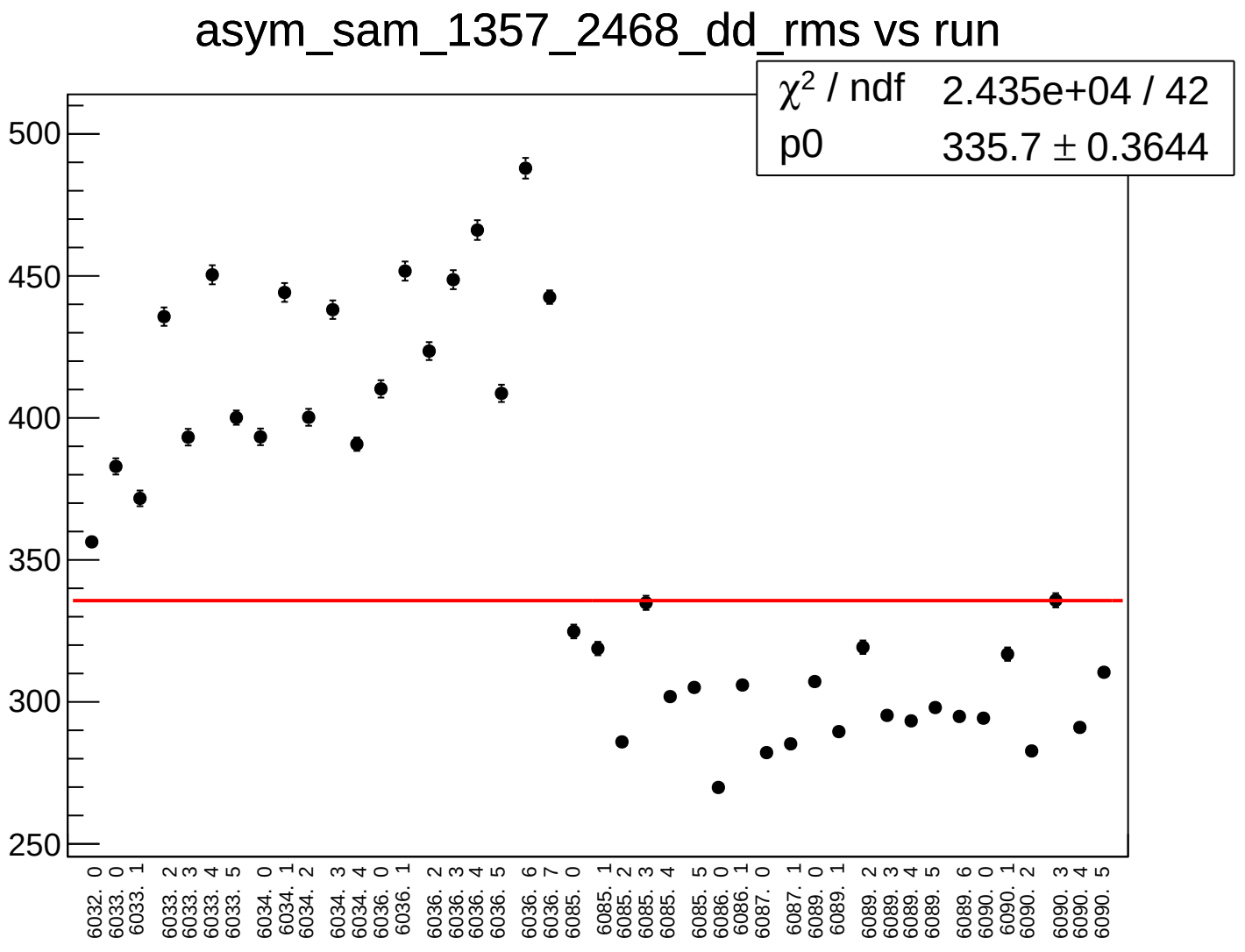

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.556e+04 / 42
p0 31.94 ± 0.03469
55
50
45
40
35
30
25
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

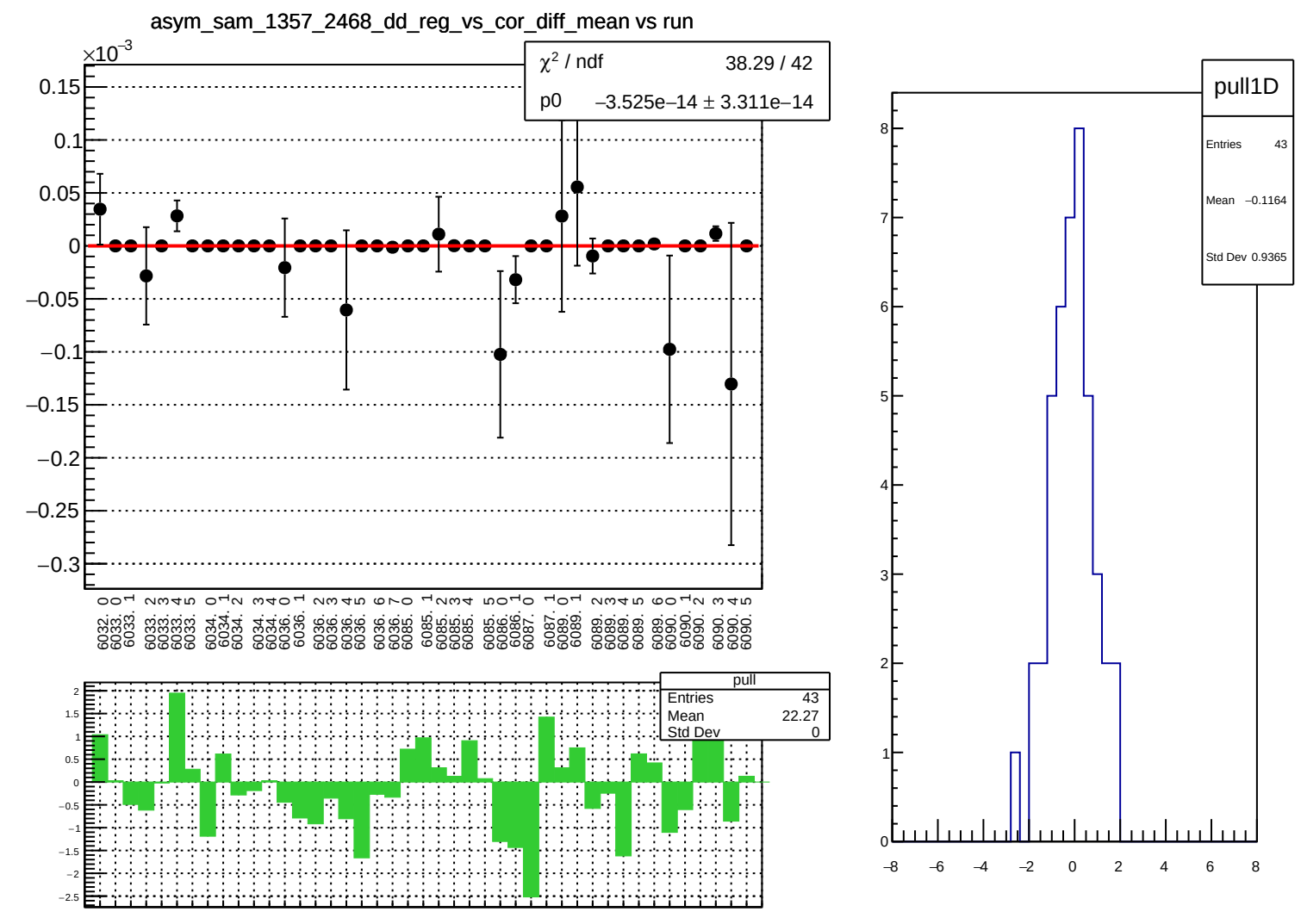

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 39.47 / 42
p0 255.6 ± 537.6
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 11.35
Std Dev 20.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

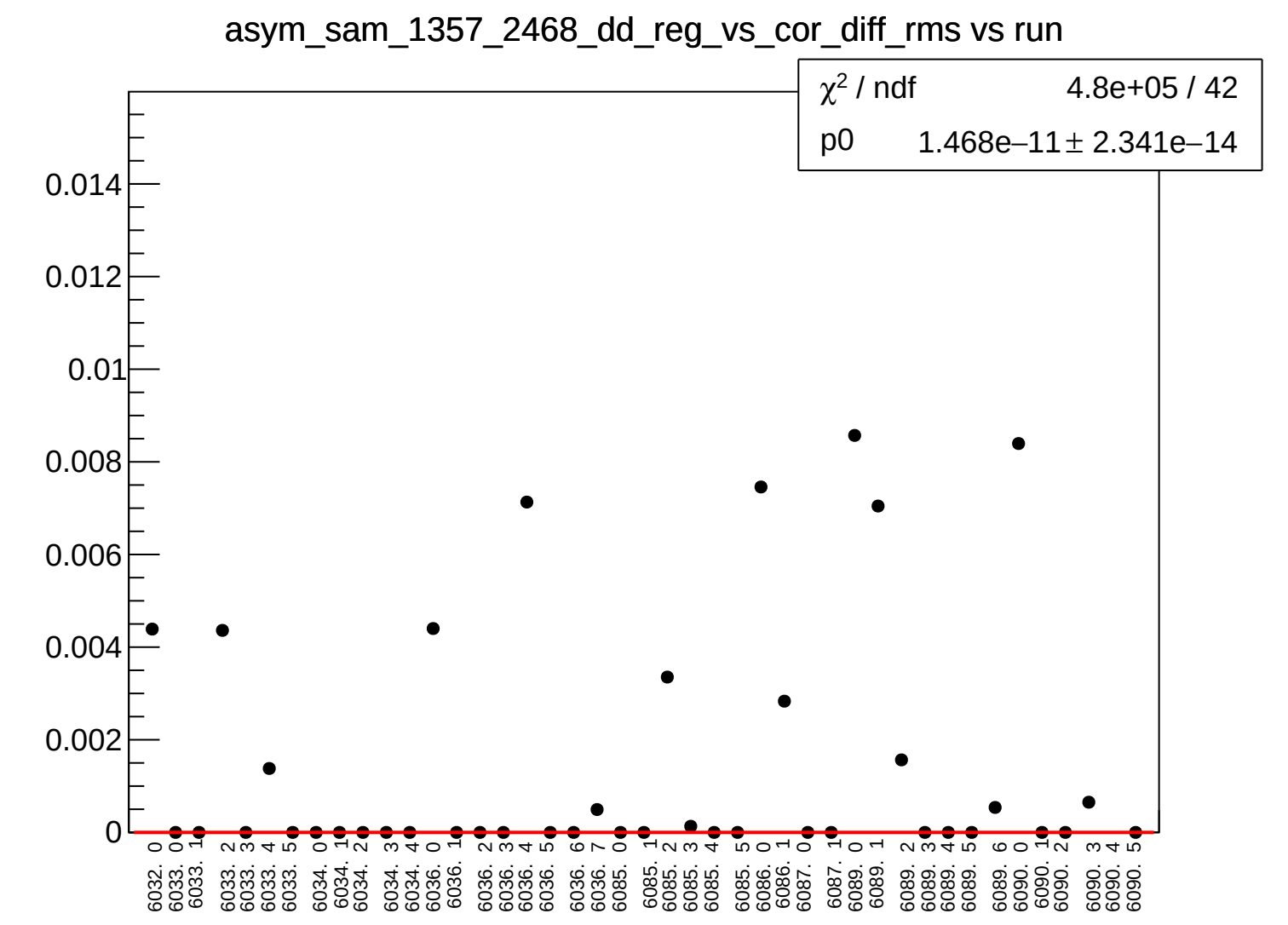

pull1D
Entries 43
Mean −0.03397
Std Dev 0.9574
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

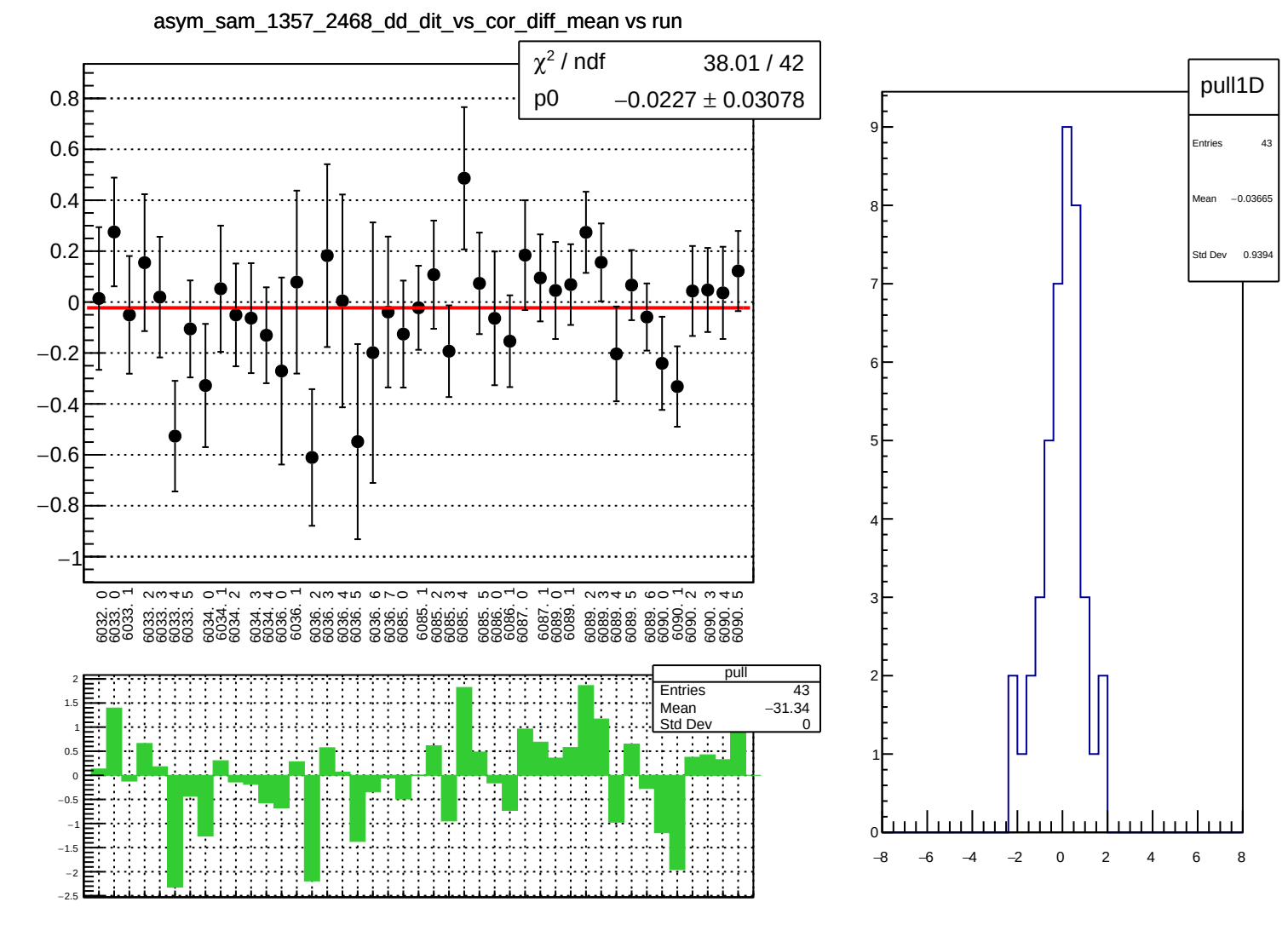

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.526e+04 / 42
p0 350 ± 0.3801
550
500
450
400
350
300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

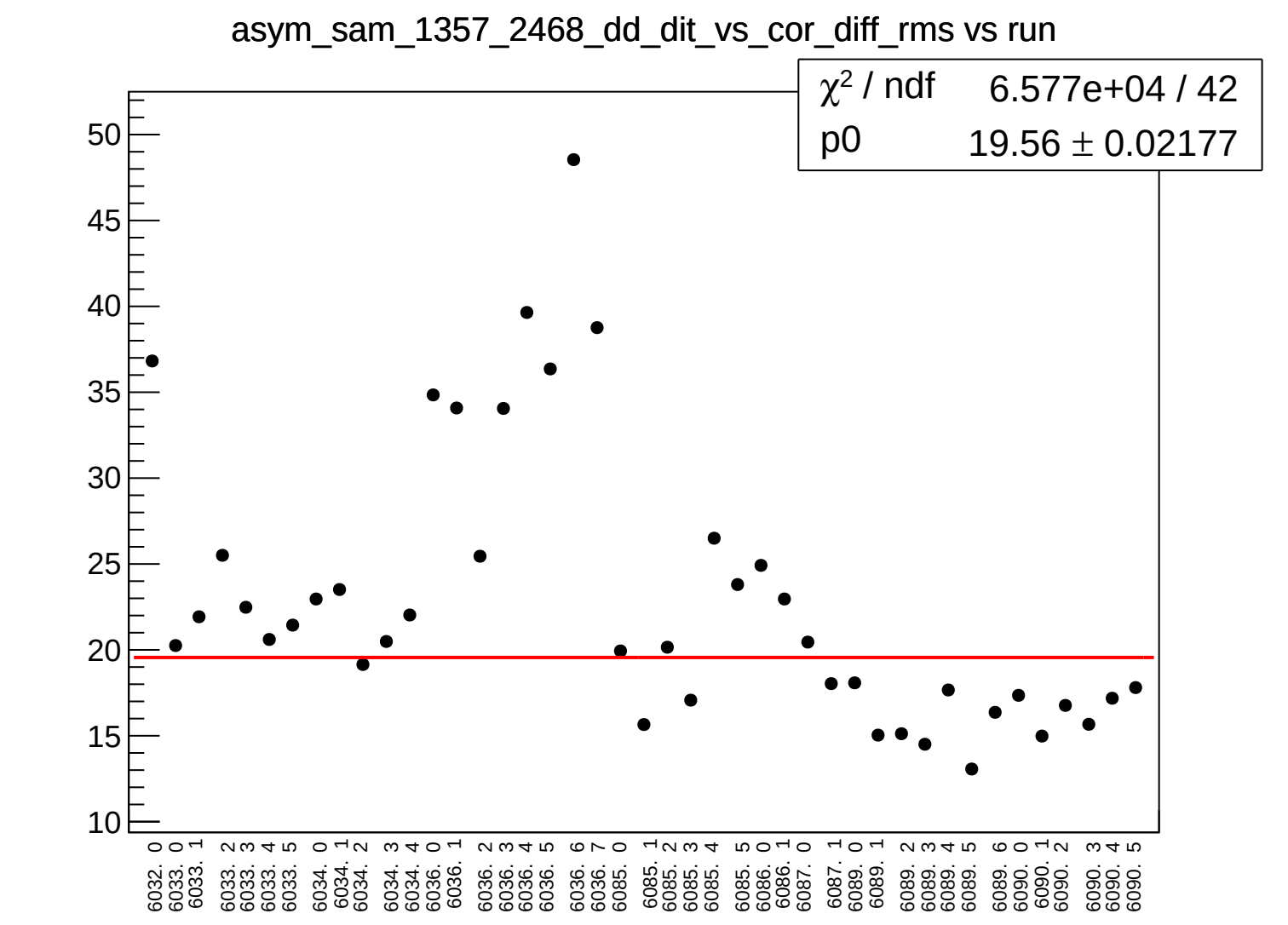

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 39.64 / 42
p0 −310.8 ± 515.3
10000
5000
0
−5000
−10000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.56
Std Dev 20.68
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03355
Std Dev 0.9595
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

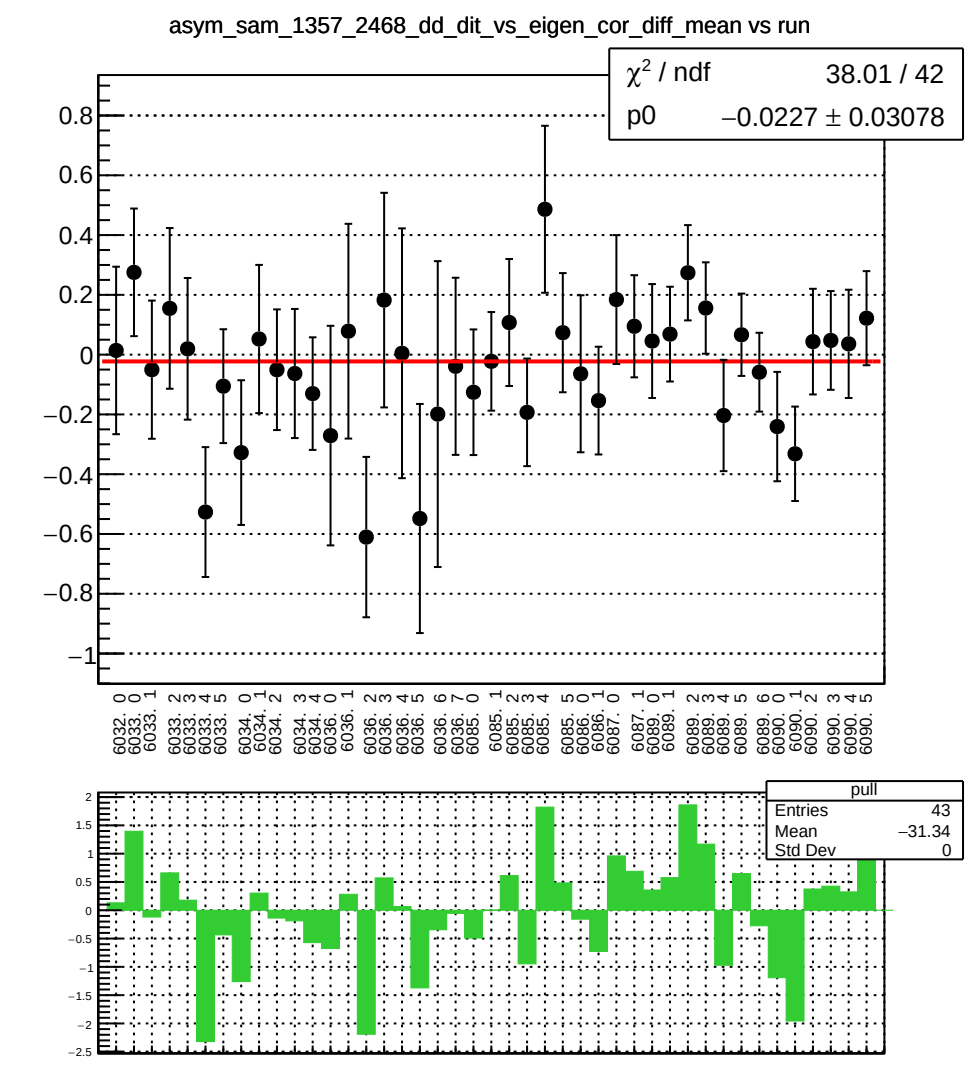

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.435e+04 / 42
p0 335.7 ± 0.3644
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

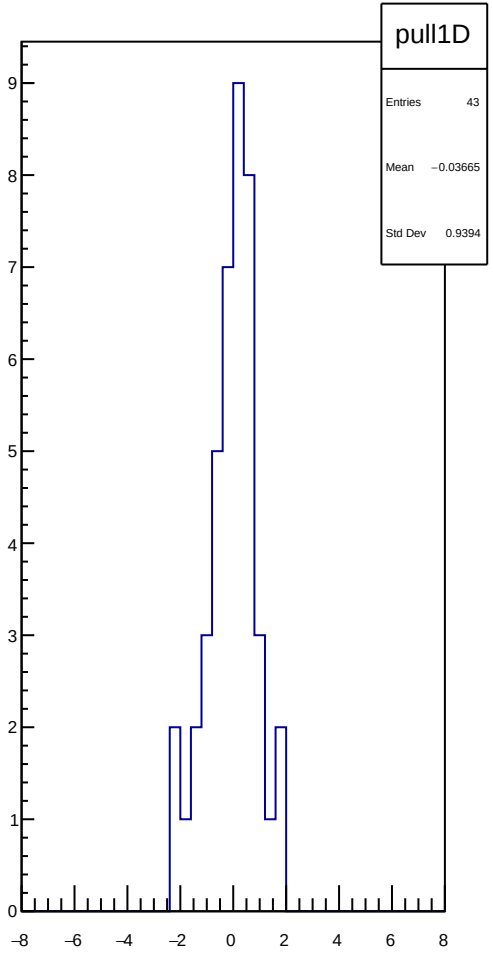

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 38.29 / 42
p0 −3.525e−14 ± 3.311e−14
pull
Entries 43
Mean 22.27
Std Dev 0
pull1D
Entries 43
Mean −0.1164
Std Dev 0.9365

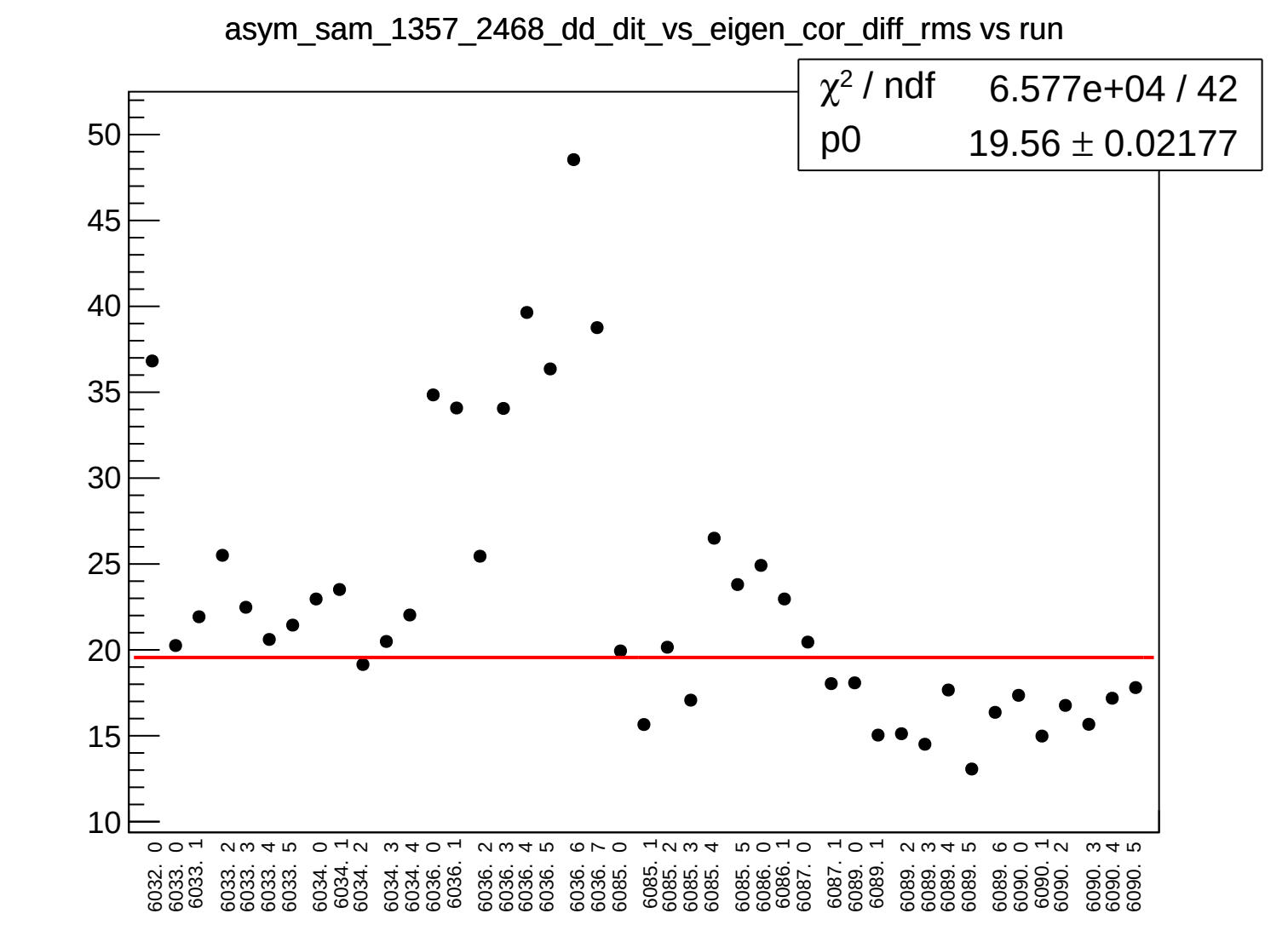

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.8e+05 / 42
p0 1.468e−11 ± 2.341e−14
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

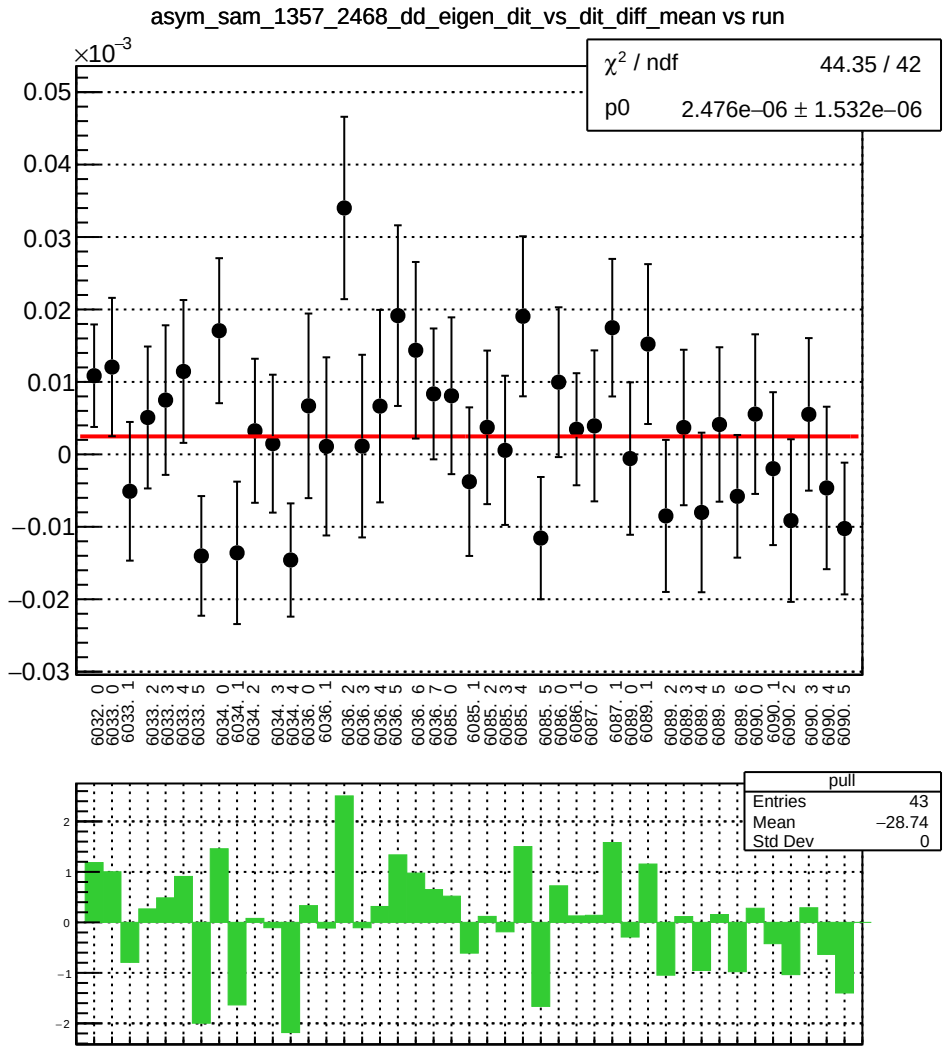

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.01 / 42
p0 −0.0227 ± 0.03078
pull
Entries 43
Mean −31.34
Std Dev 0
pull1D
Entries 43
Mean −0.03665
Std Dev 0.9394

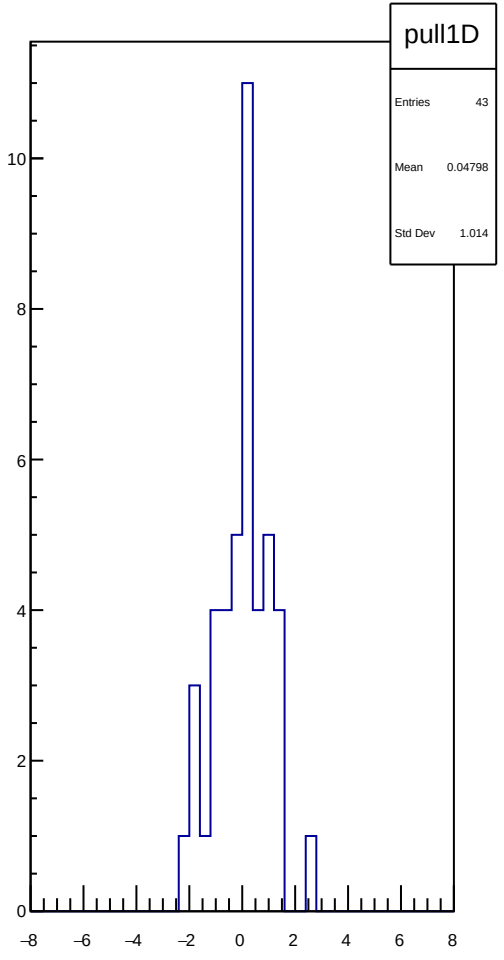

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.577e+04 / 42
p0 19.56 ± 0.02177
50
45
40
35
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

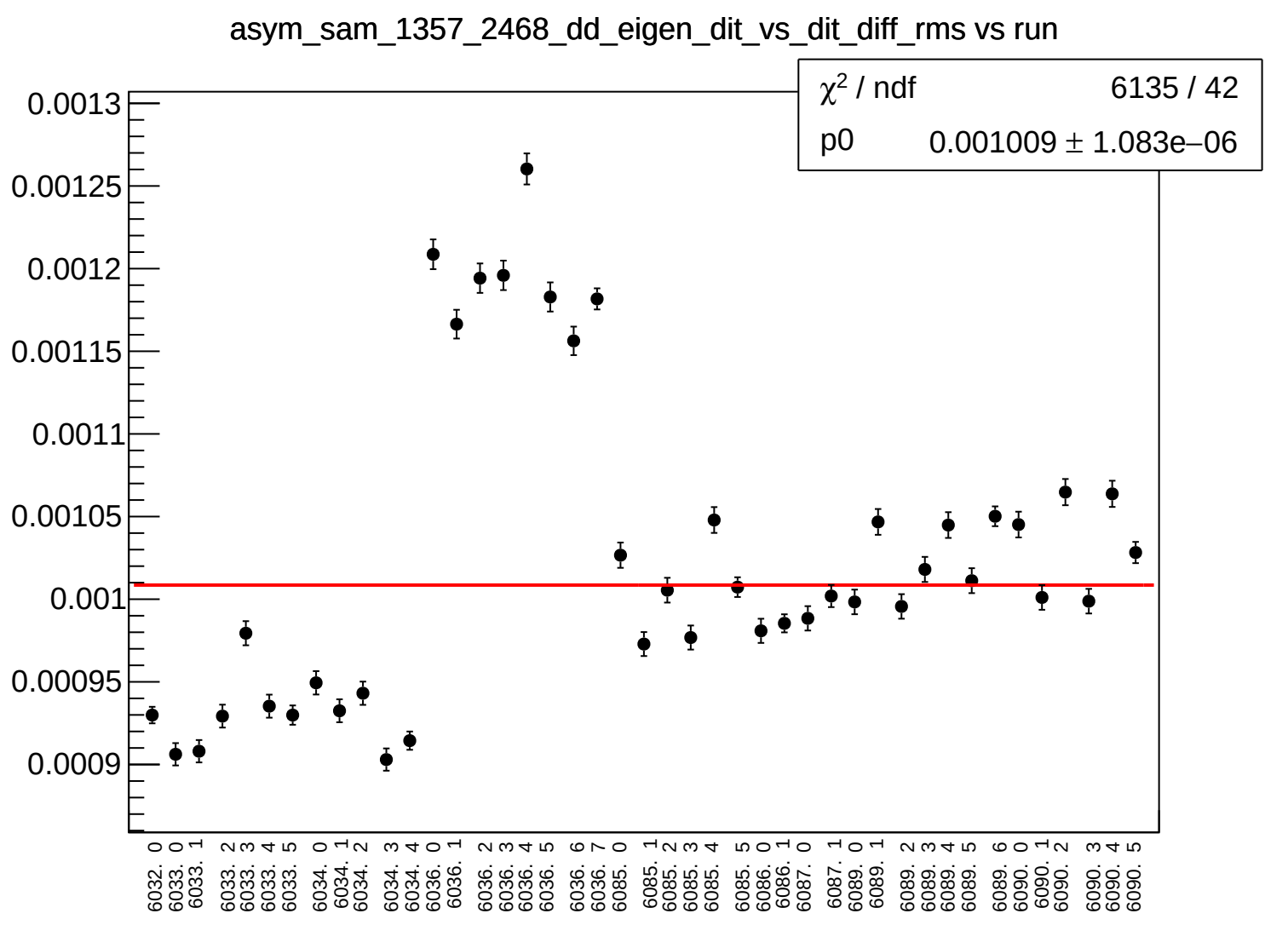

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.01 / 42
p0 −0.0227 ± 0.03078
pull
Entries 43
Mean −31.34
Std Dev 0

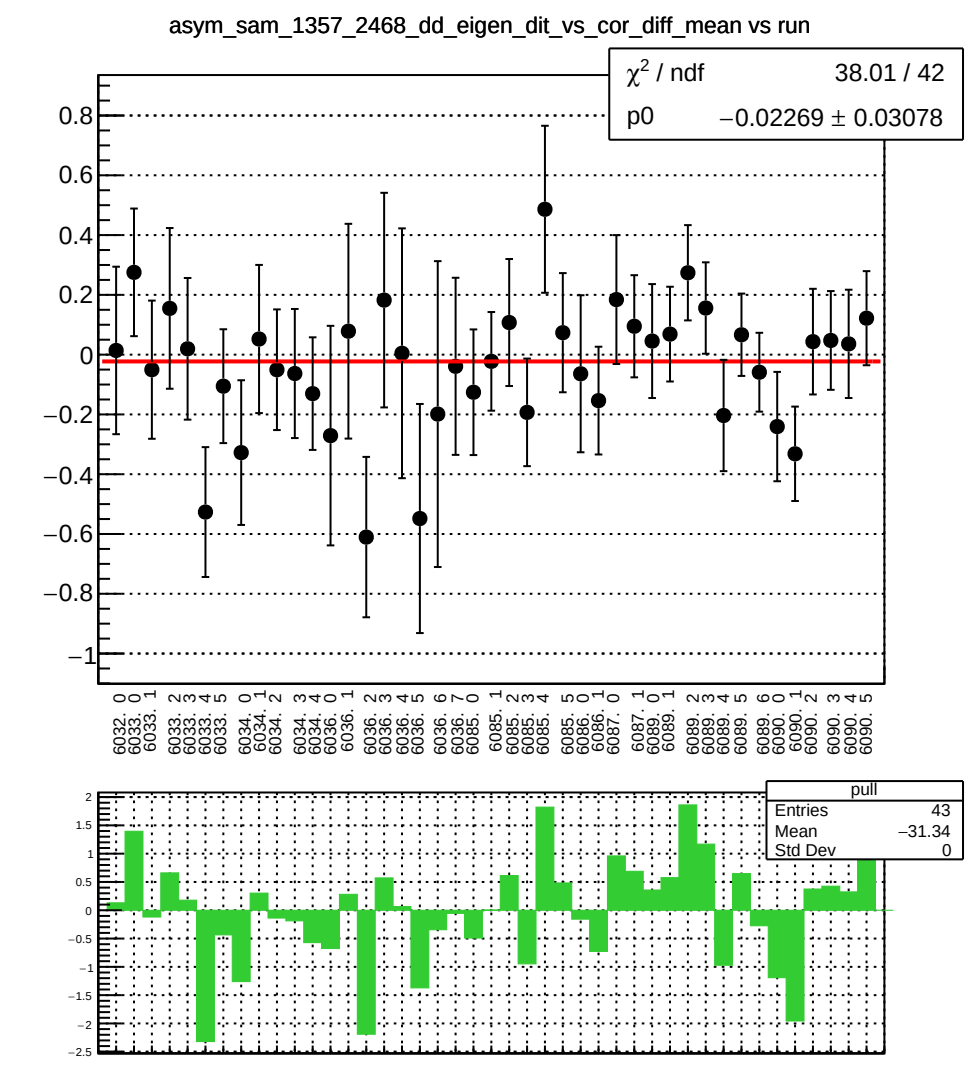

pull1D
Entries 43
Mean −0.03665
Std Dev 0.9394

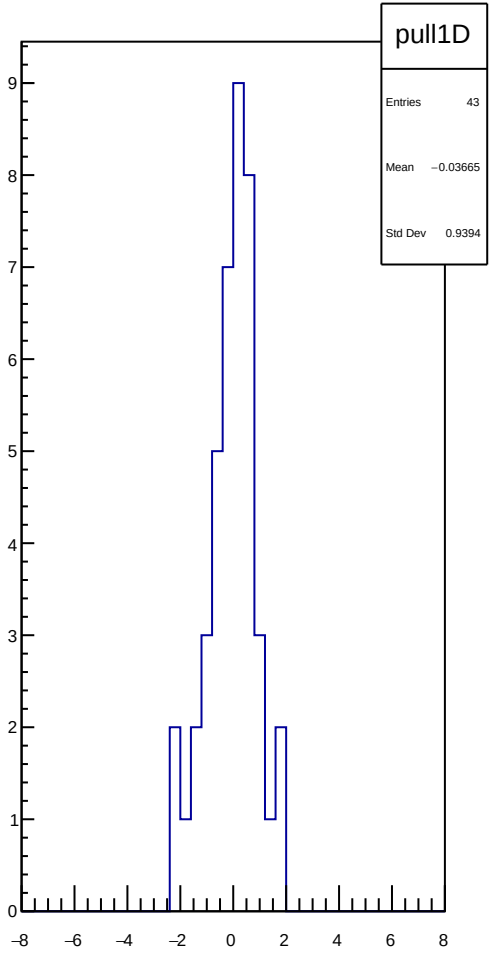

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.577e+04 / 42
p0 19.56 ± 0.02177
50
45
40
35
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

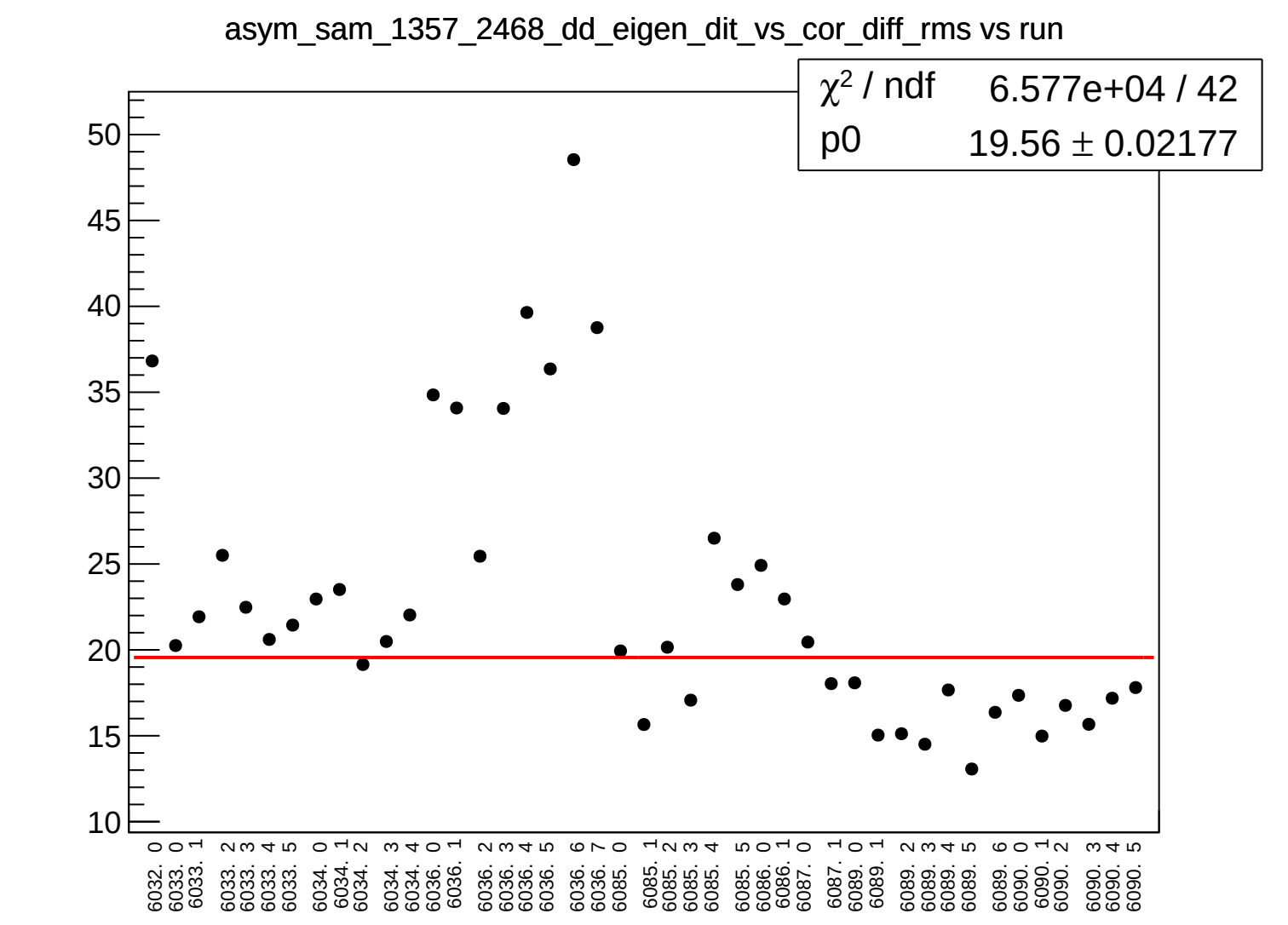

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.35 / 42
p0 2.476e−06 ± 1.532e−06
pull
Entries 43
Mean −28.74
Std Dev 0

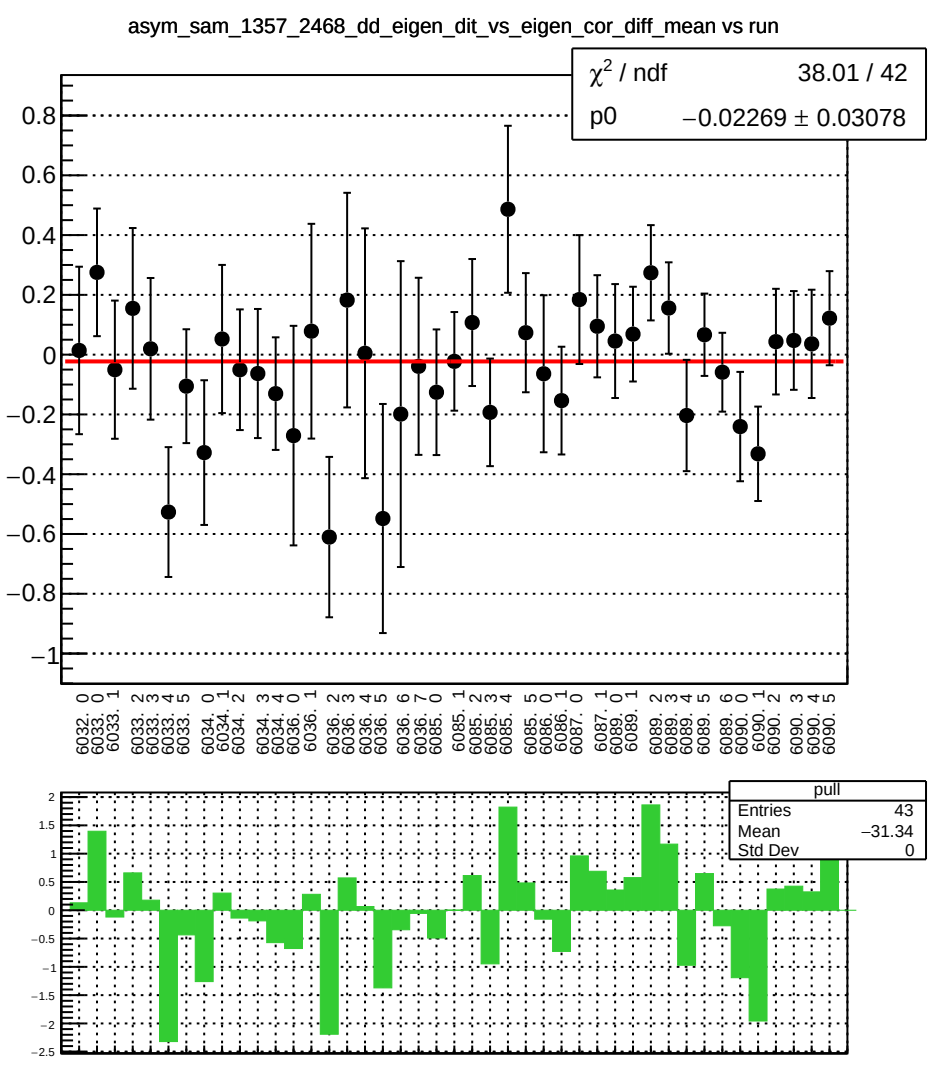

pull1D
Entries 43
Mean 0.04798
Std Dev 1.014

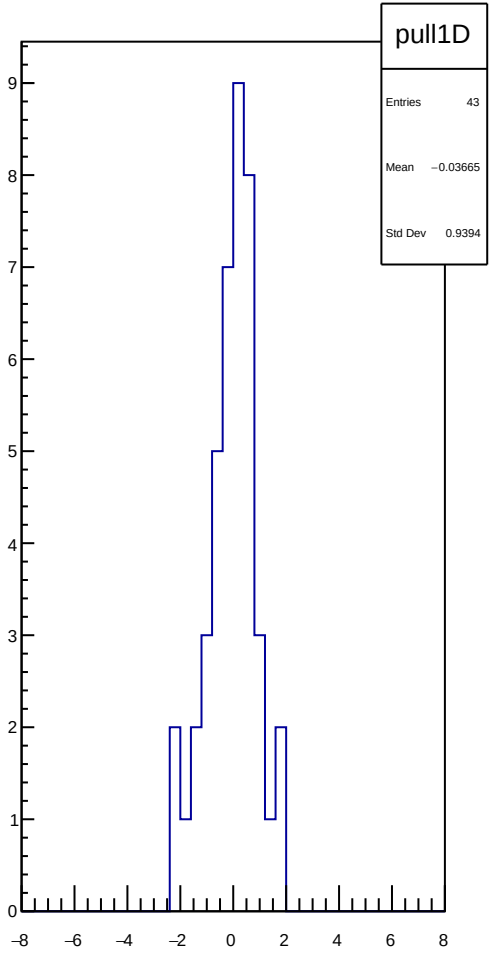

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6135 / 42
p0 0.001009 ± 1.083e−06
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

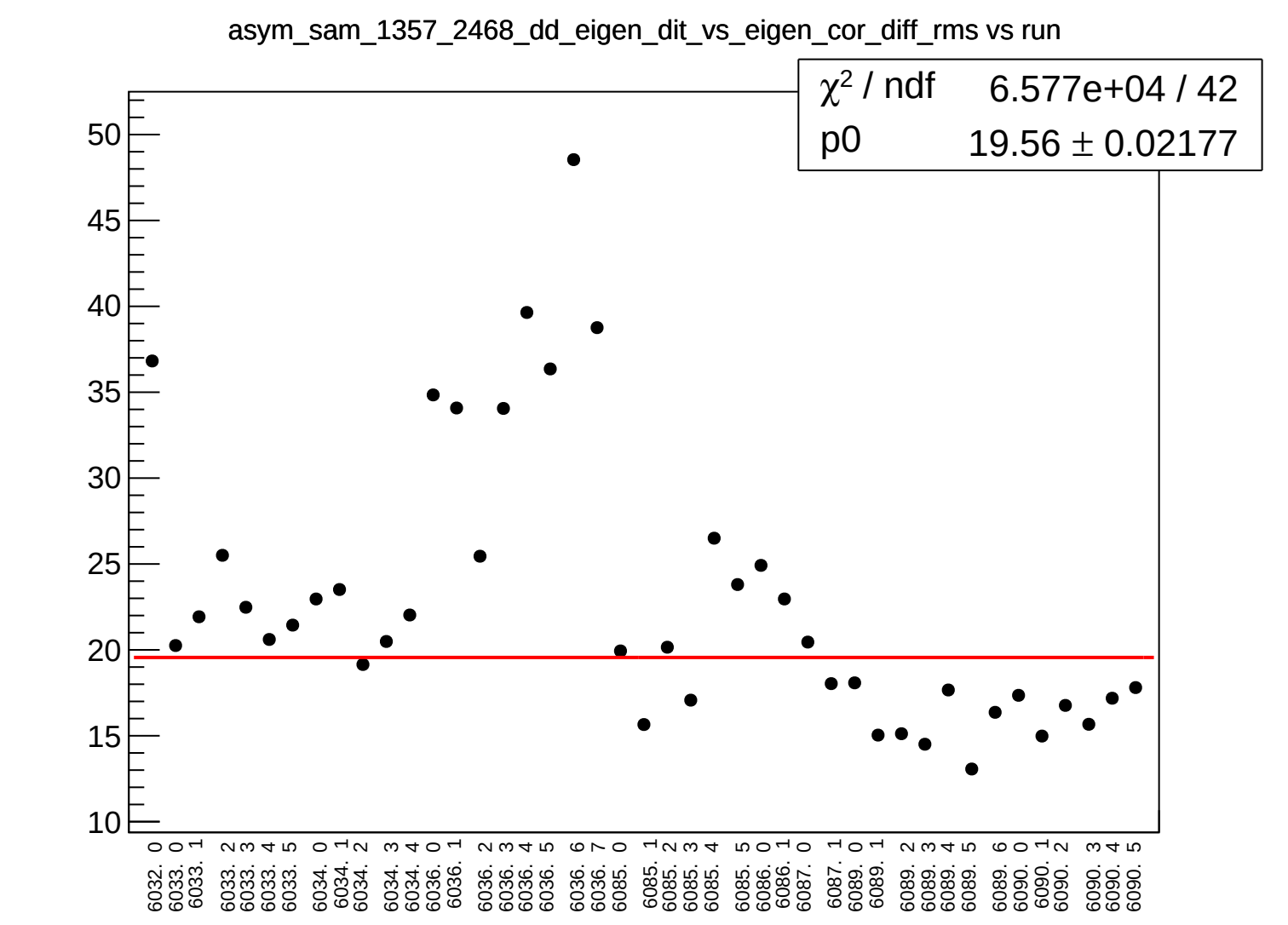

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.01 / 42
p0 −0.02269 ± 0.03078
pull
Entries 43
Mean −31.34
Std Dev 0

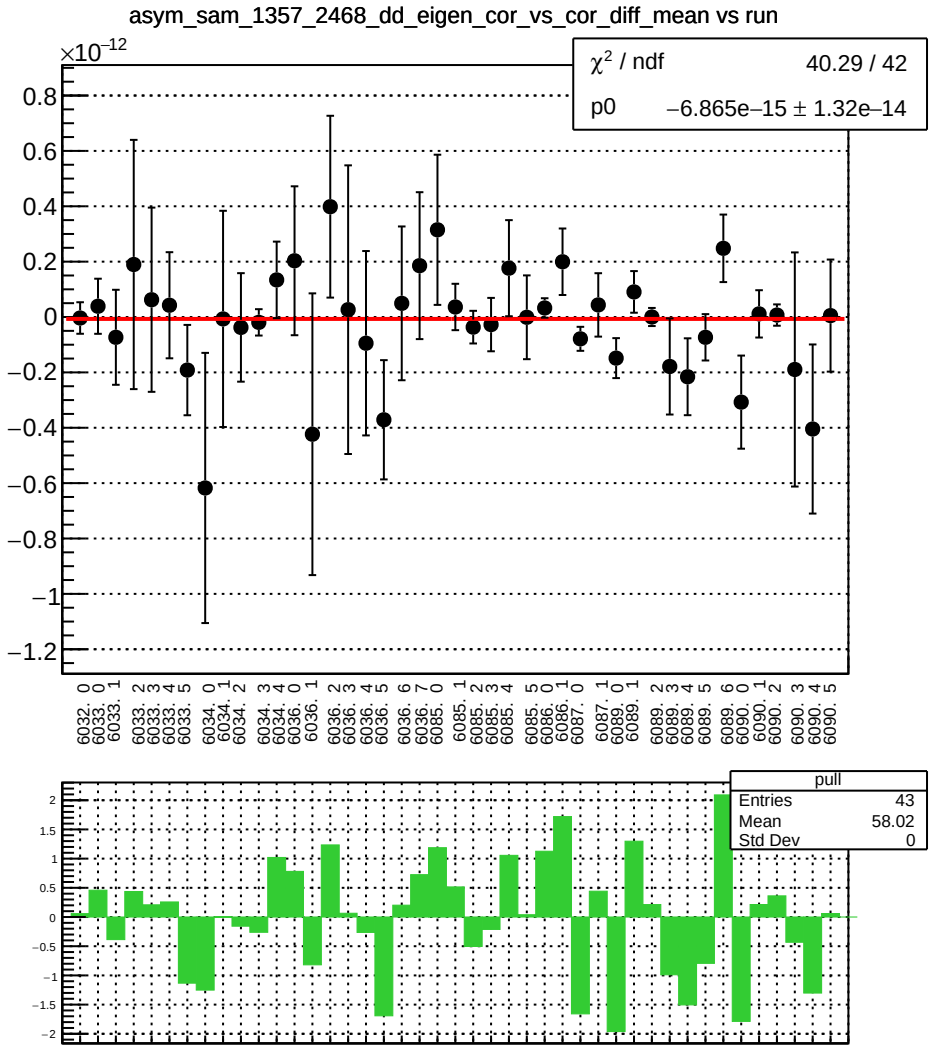

pull1D
Entries 43
Mean −0.03665
Std Dev 0.9394

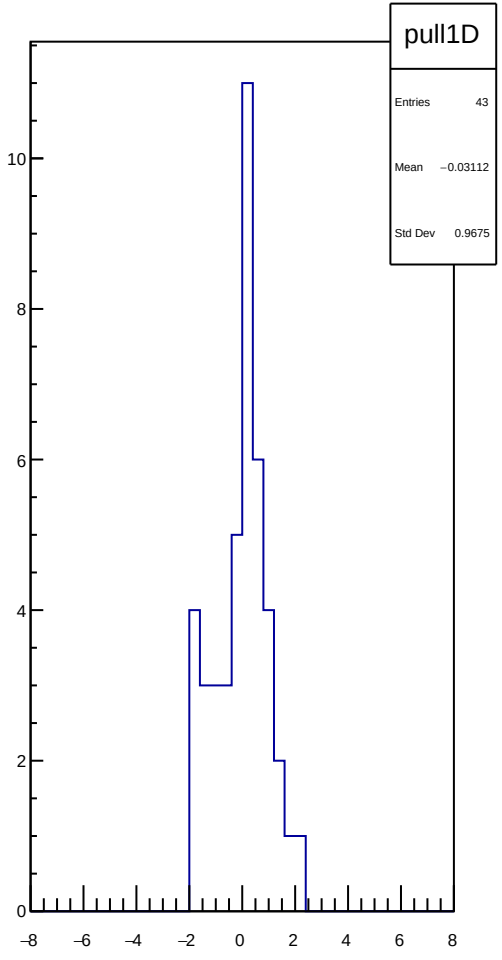

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.577e+04 / 42
p0 19.56 ± 0.02177
50
45
40
35
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

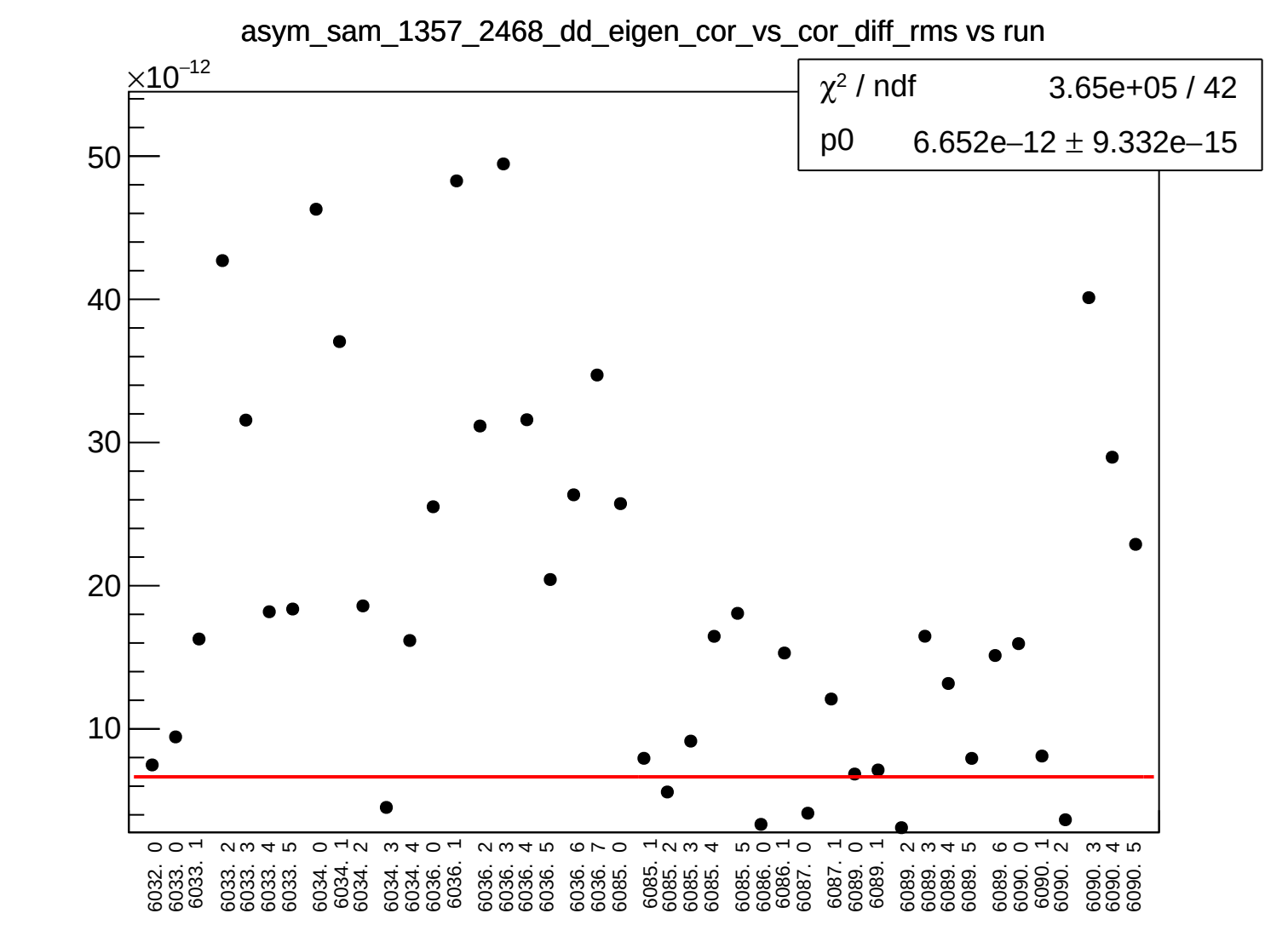

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.01 / 42
p0 −0.02269 ± 0.03078
pull
Entries 43
Mean −31.34
Std Dev 0

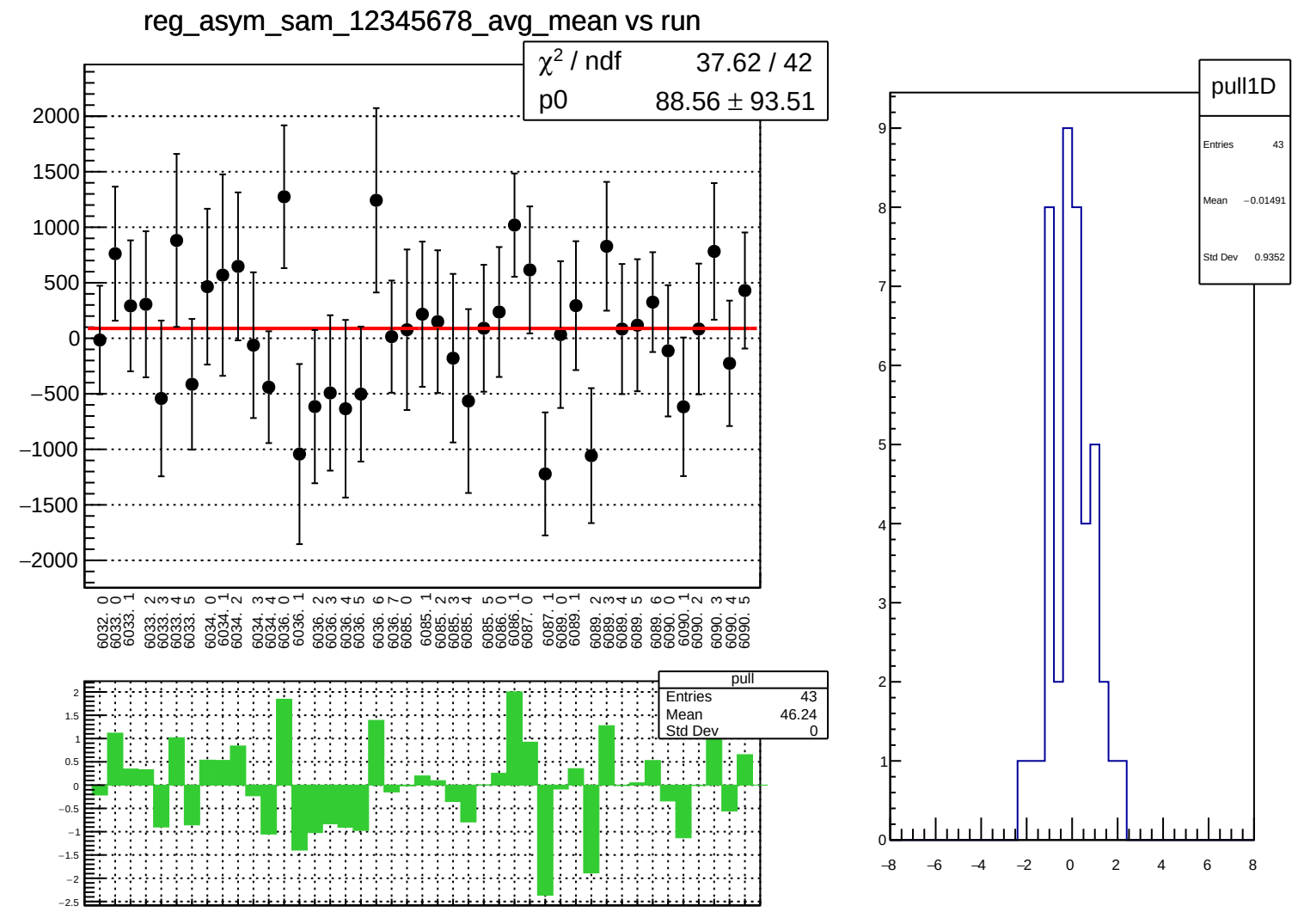

pull1D
Entries 43
Mean −0.03665
Std Dev 0.9394

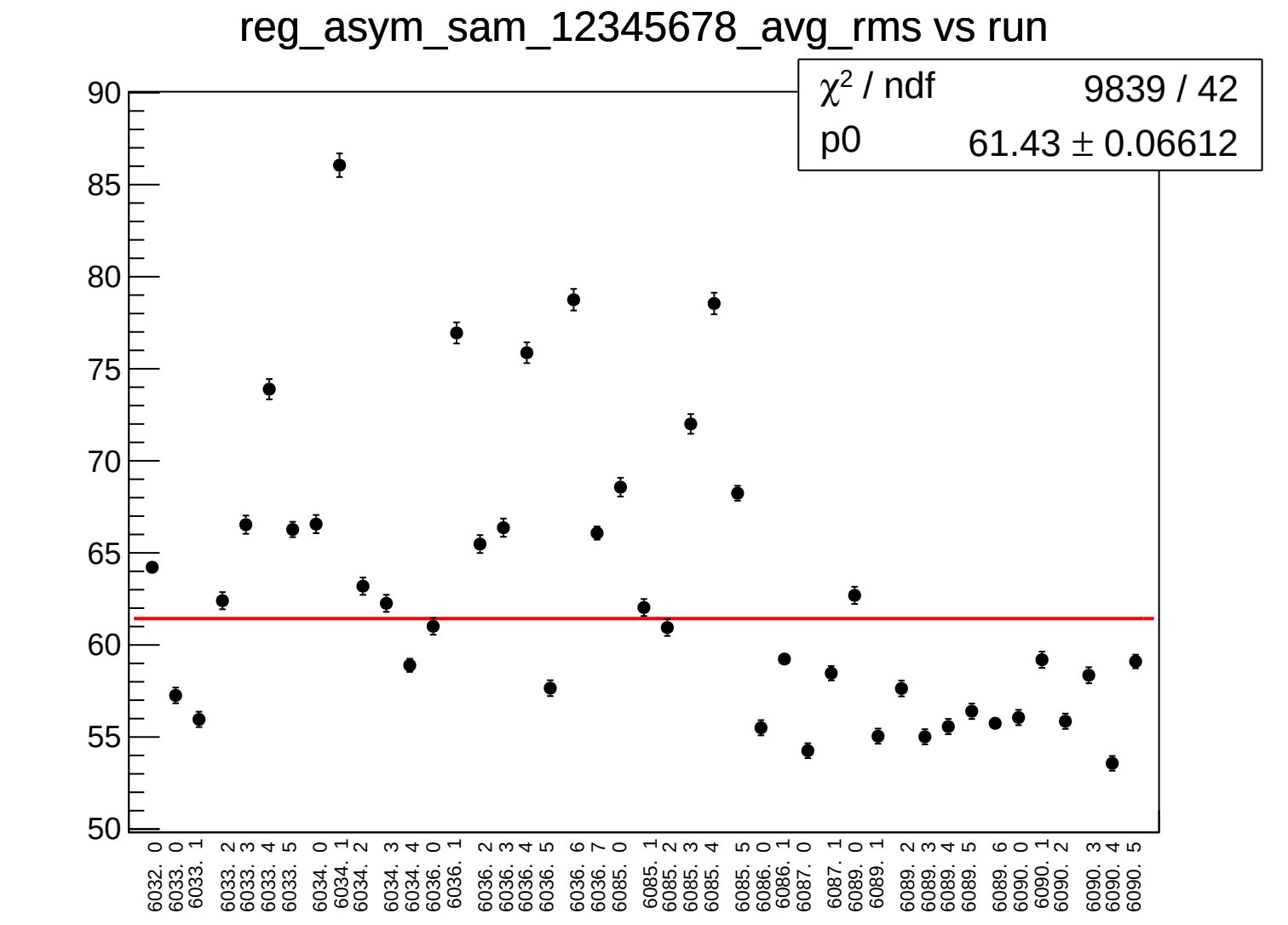

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.577e+04 / 42
p0 19.56 ± 0.02177
50
45
40
35
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

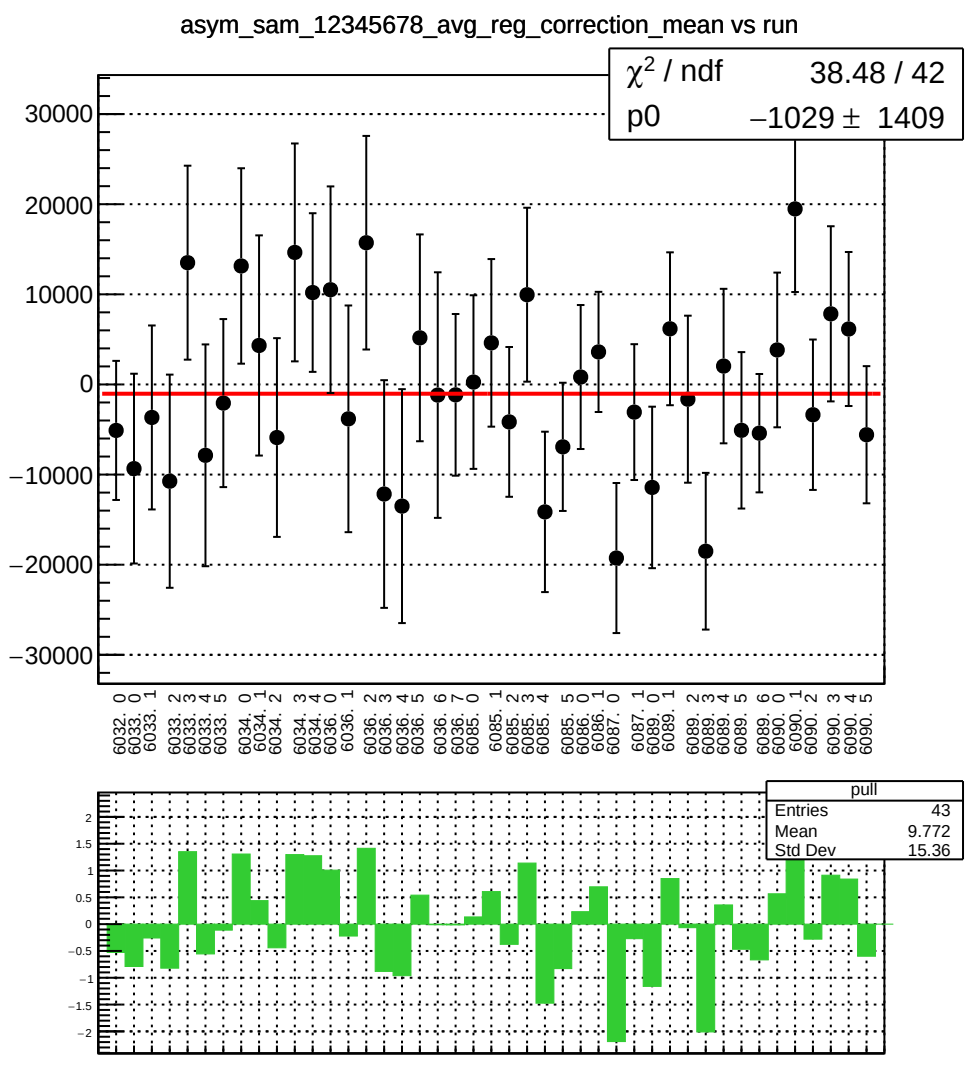

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 40.29 / 42
p0 −6.865e−15 ± 1.32e−14
pull
Entries 43
Mean 58.02
Std Dev 0

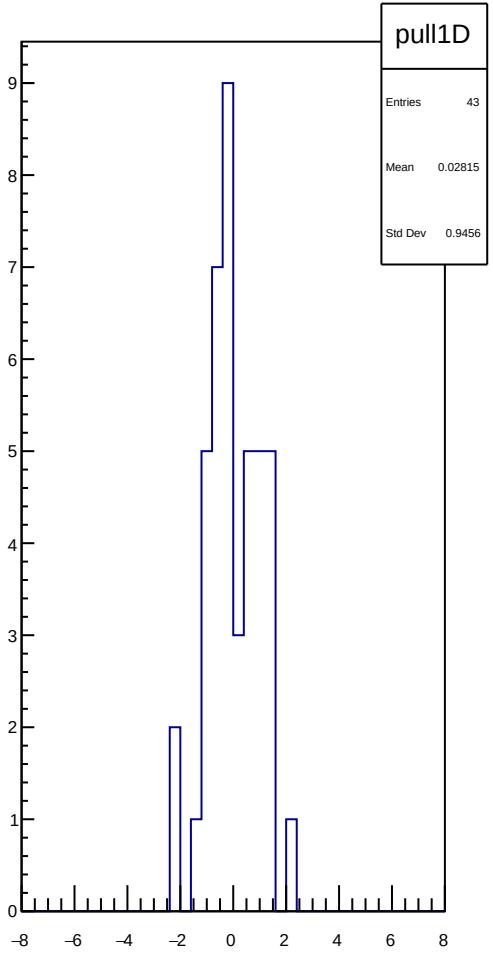

pull1D
Entries 43
Mean −0.03112
Std Dev 0.9675

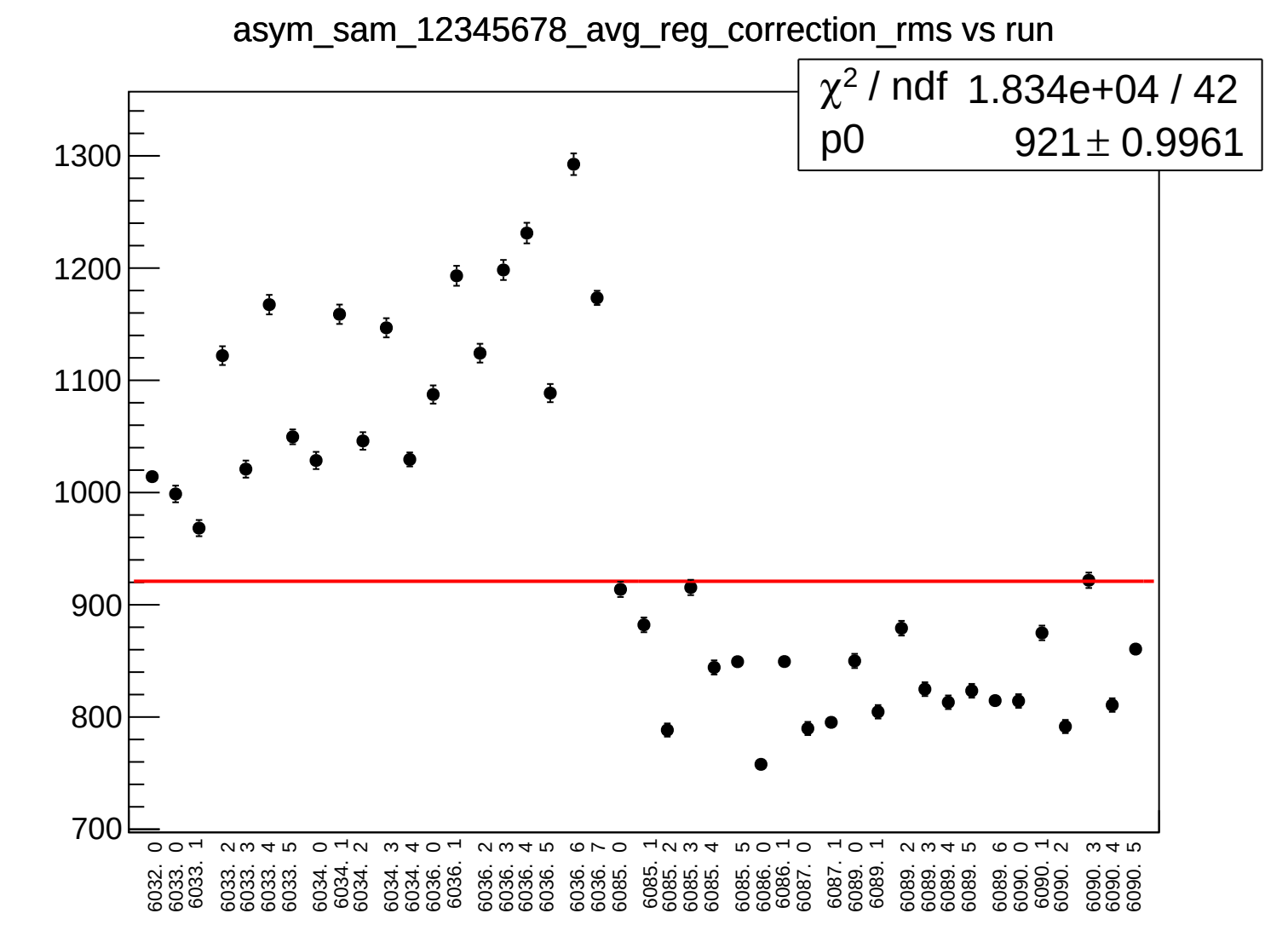

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.65e+05 / 42
p0 6.652e−12 ± 9.332e−15
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

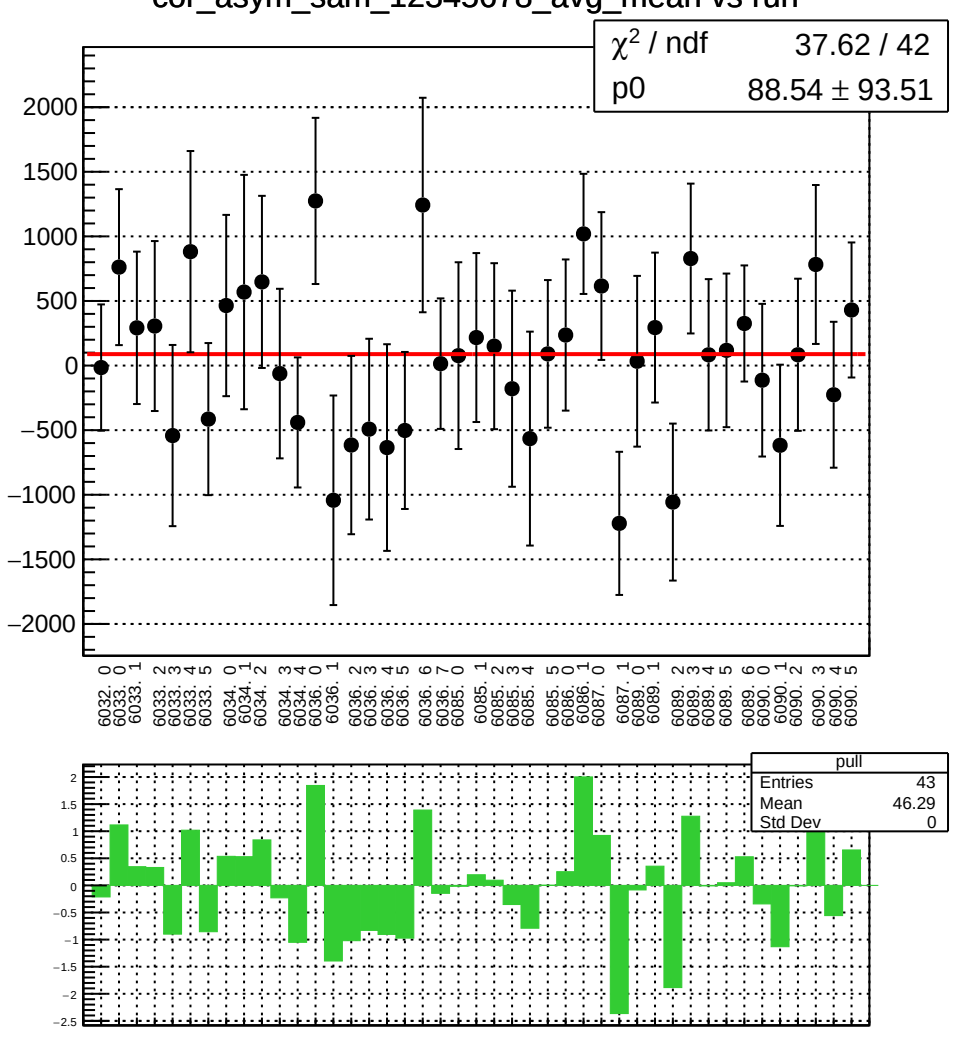

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 37.62 / 42
p0 88.56 ± 93.51
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 46.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.01491
Std Dev 0.9352
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

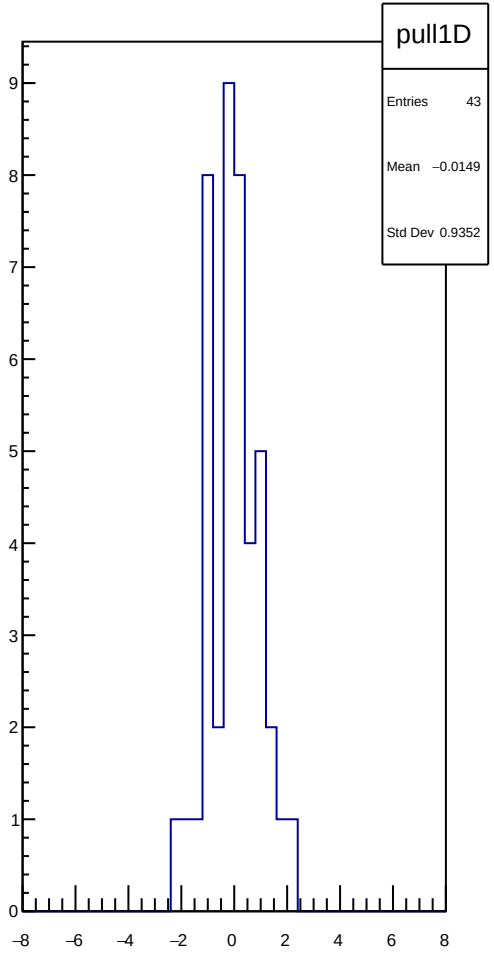

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 9839 / 42
p0 61.43 ± 0.06612
90
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

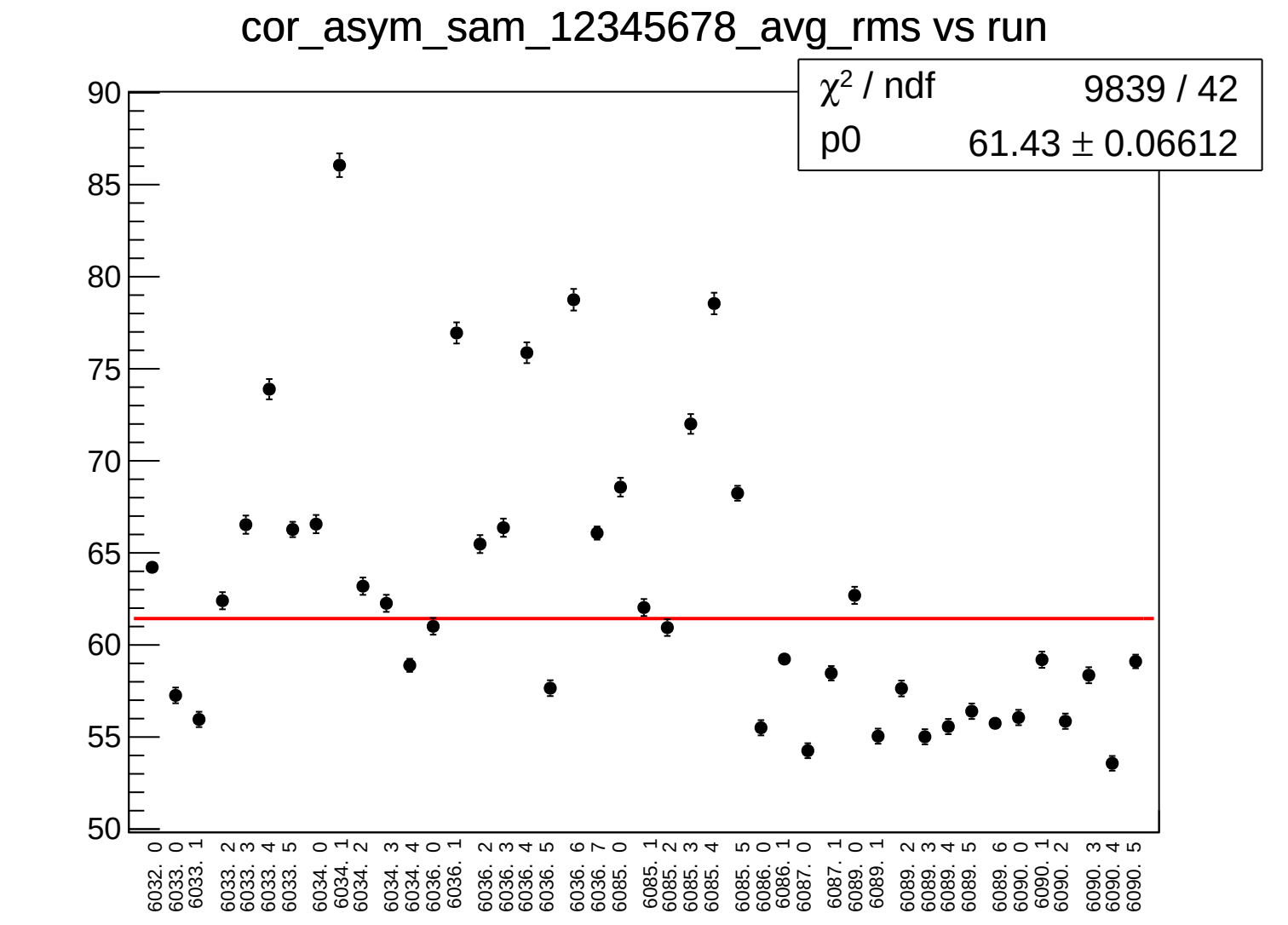

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 38.48 / 42
p0 −1029 ± 1409
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.772
Std Dev 15.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

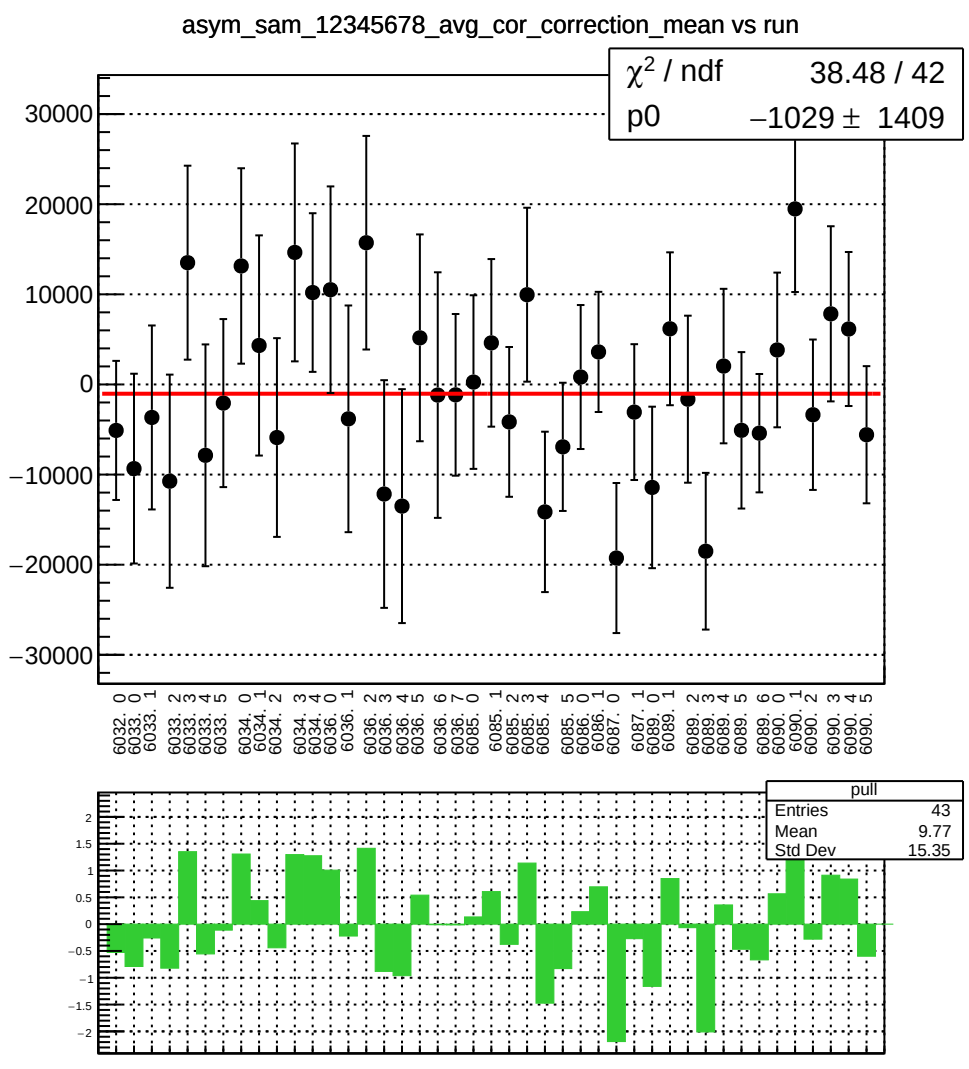

pull1D
Entries 43
Mean 0.02815
Std Dev 0.9456
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

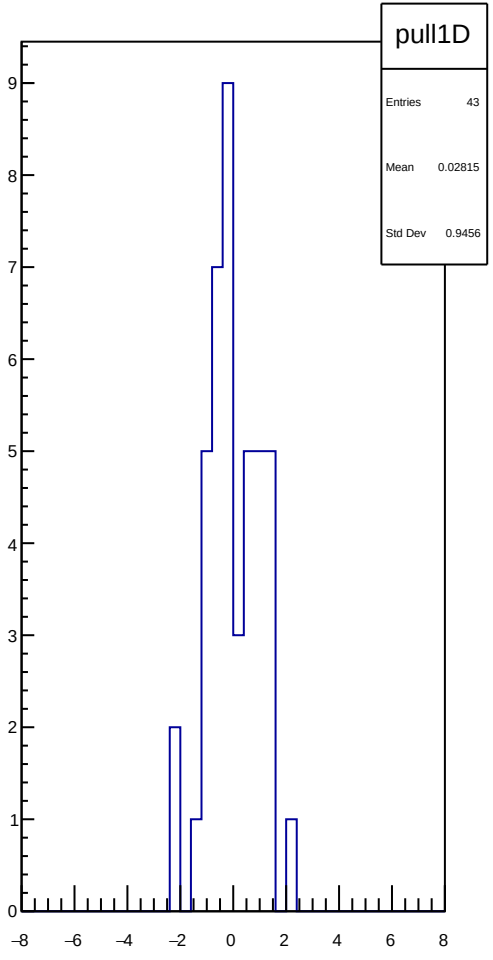

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.834e+04 / 42
p0 921 ± 0.9961
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

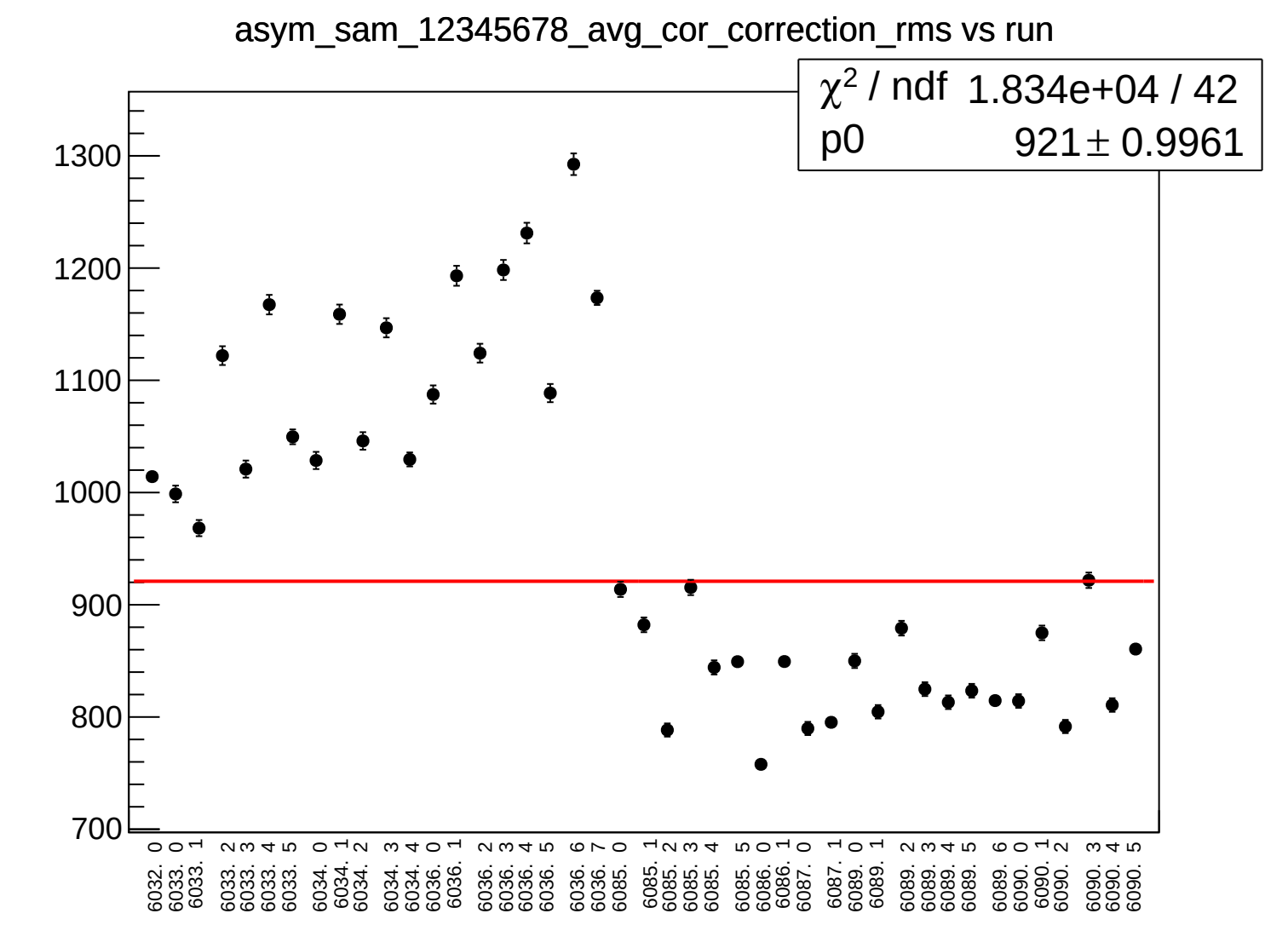

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 37.62 / 42
p0 88.54 ± 93.51
pull
Entries 43
Mean 46.29
Std Dev 0

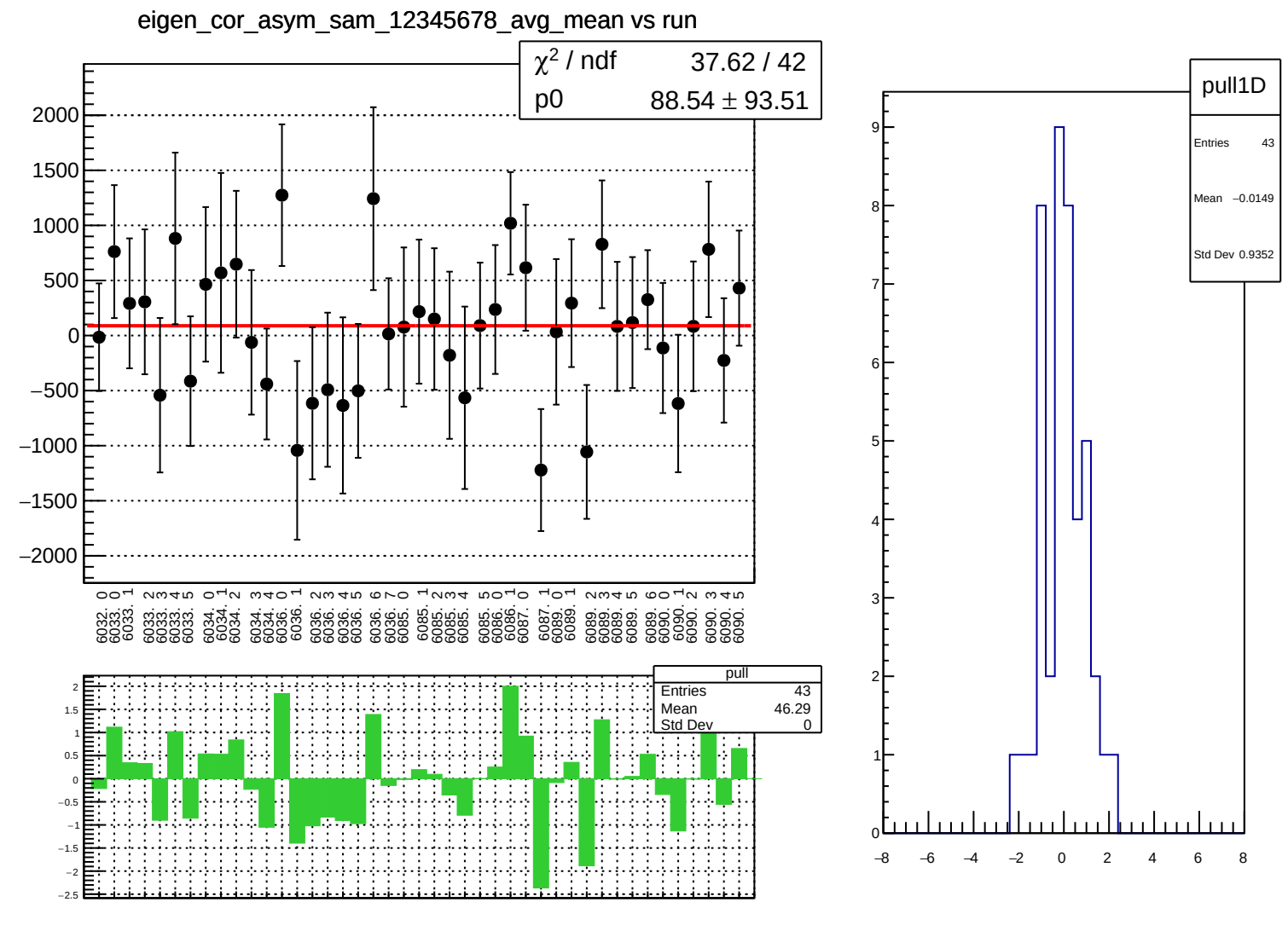

pull1D
Entries 43
Mean −0.0149
Std Dev 0.9352

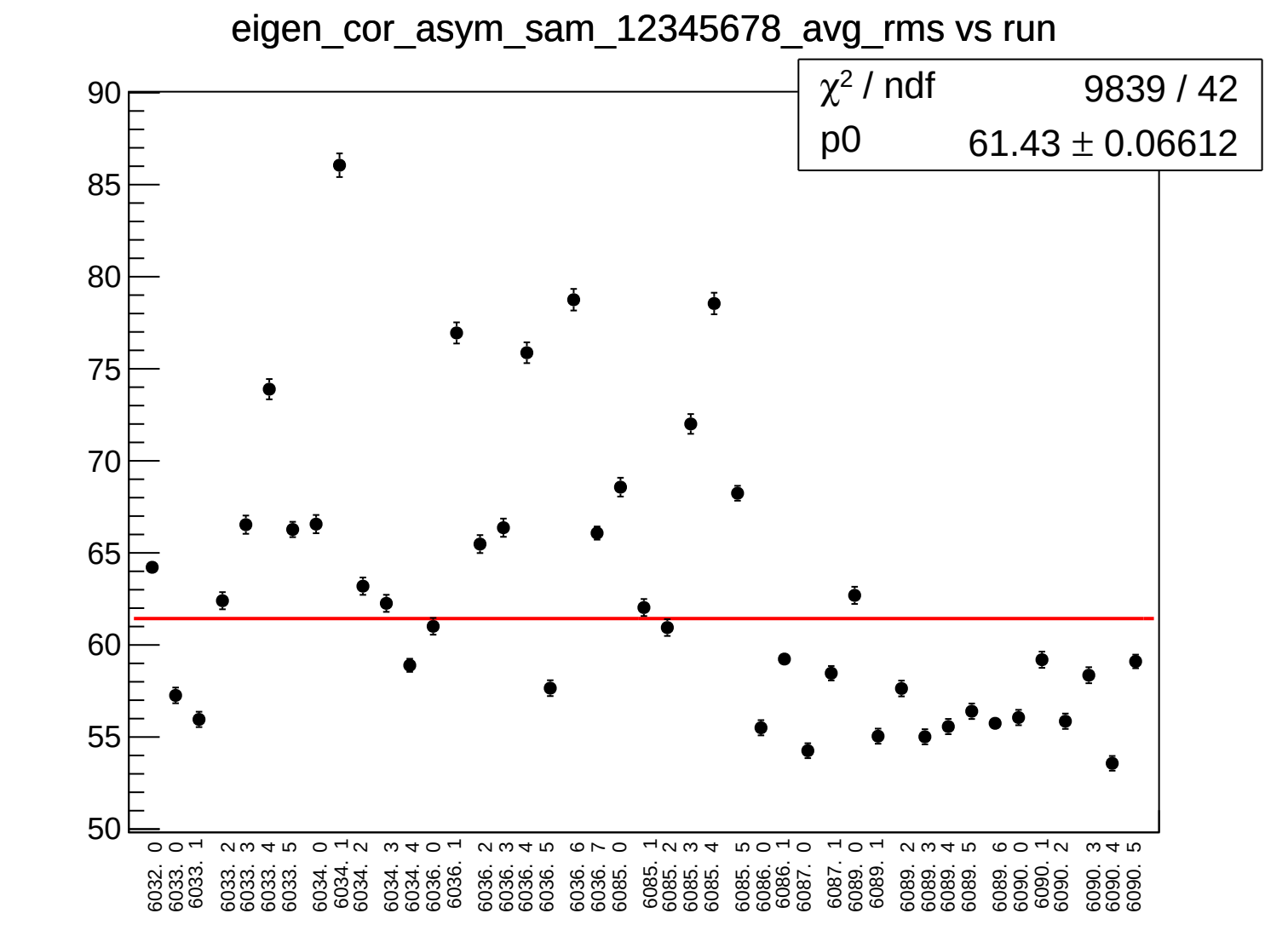

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 9839 / 42
p0 61.43 ± 0.06612
90
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

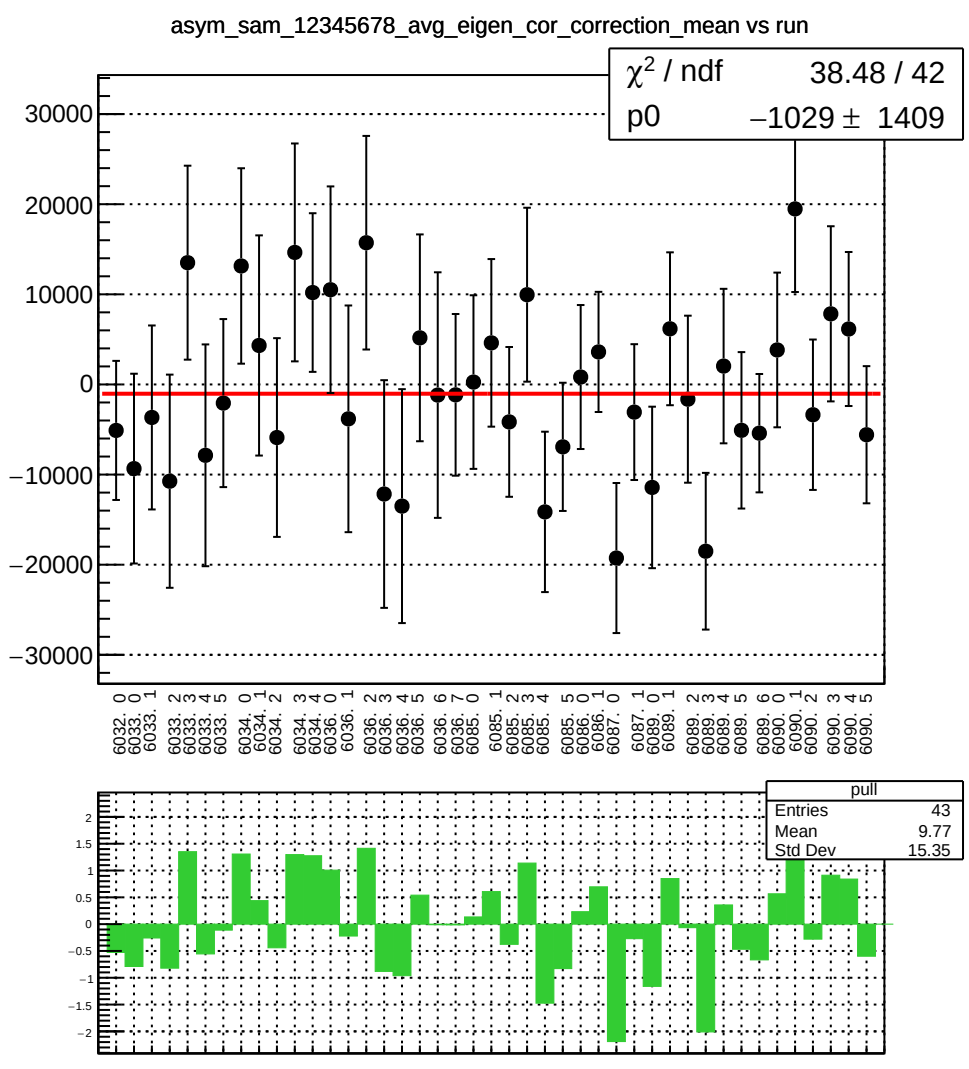

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 38.48 / 42
p0 −1029 ± 1409
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.77
Std Dev 15.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

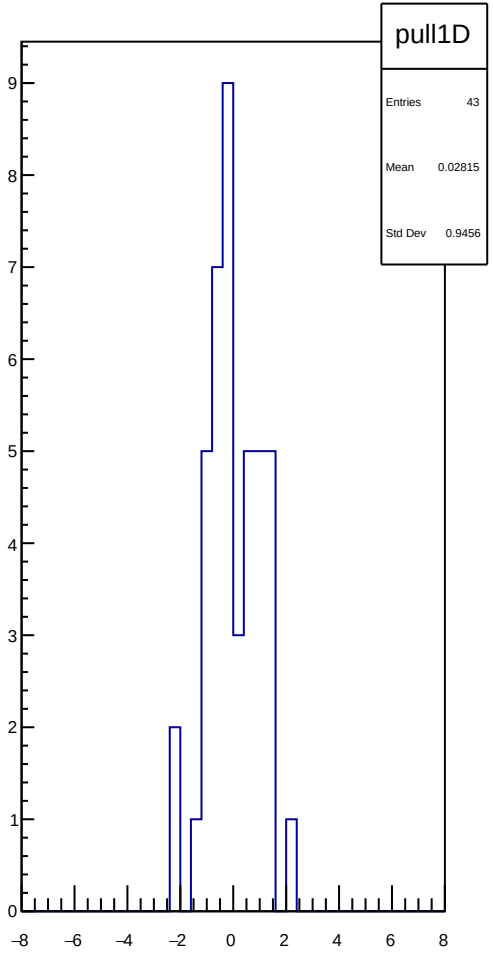

pull1D
Entries 43
Mean 0.02815
Std Dev 0.9456
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

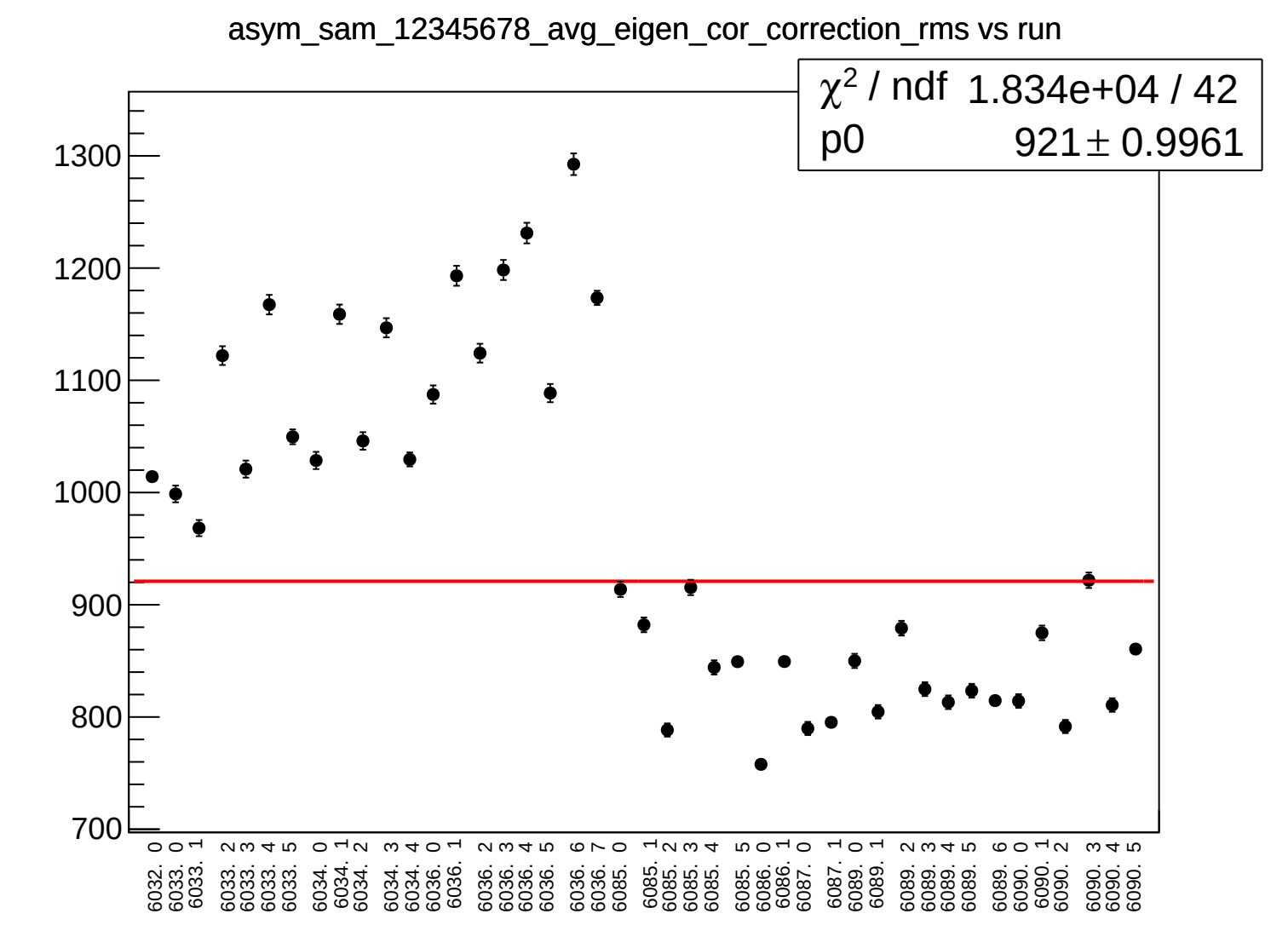

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.834e+04 / 42
p0 921 ± 0.9961
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

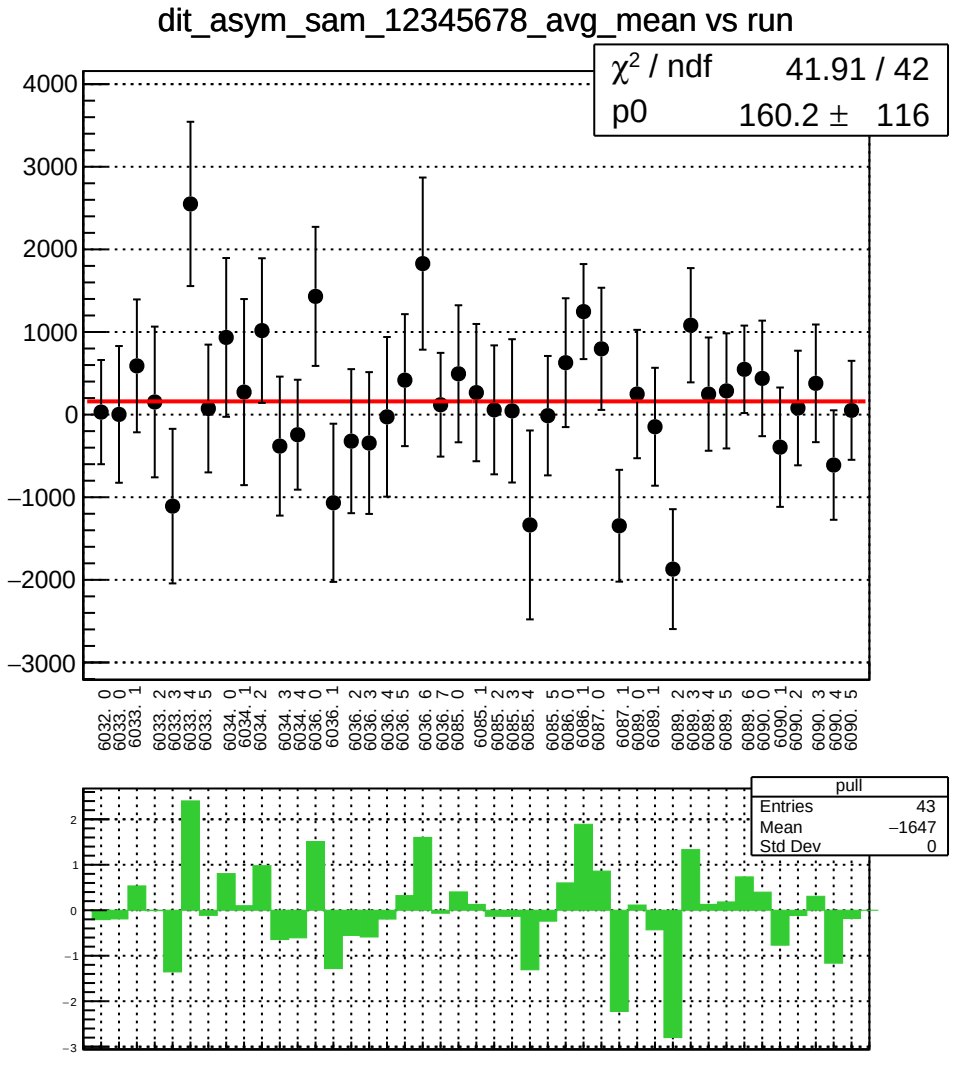

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 37.62 / 42
p0 88.54 ± 93.51
pull
Entries 43
Mean 46.29
Std Dev 0
pull1D
Entries 43
Mean −0.0149
Std Dev 0.9352

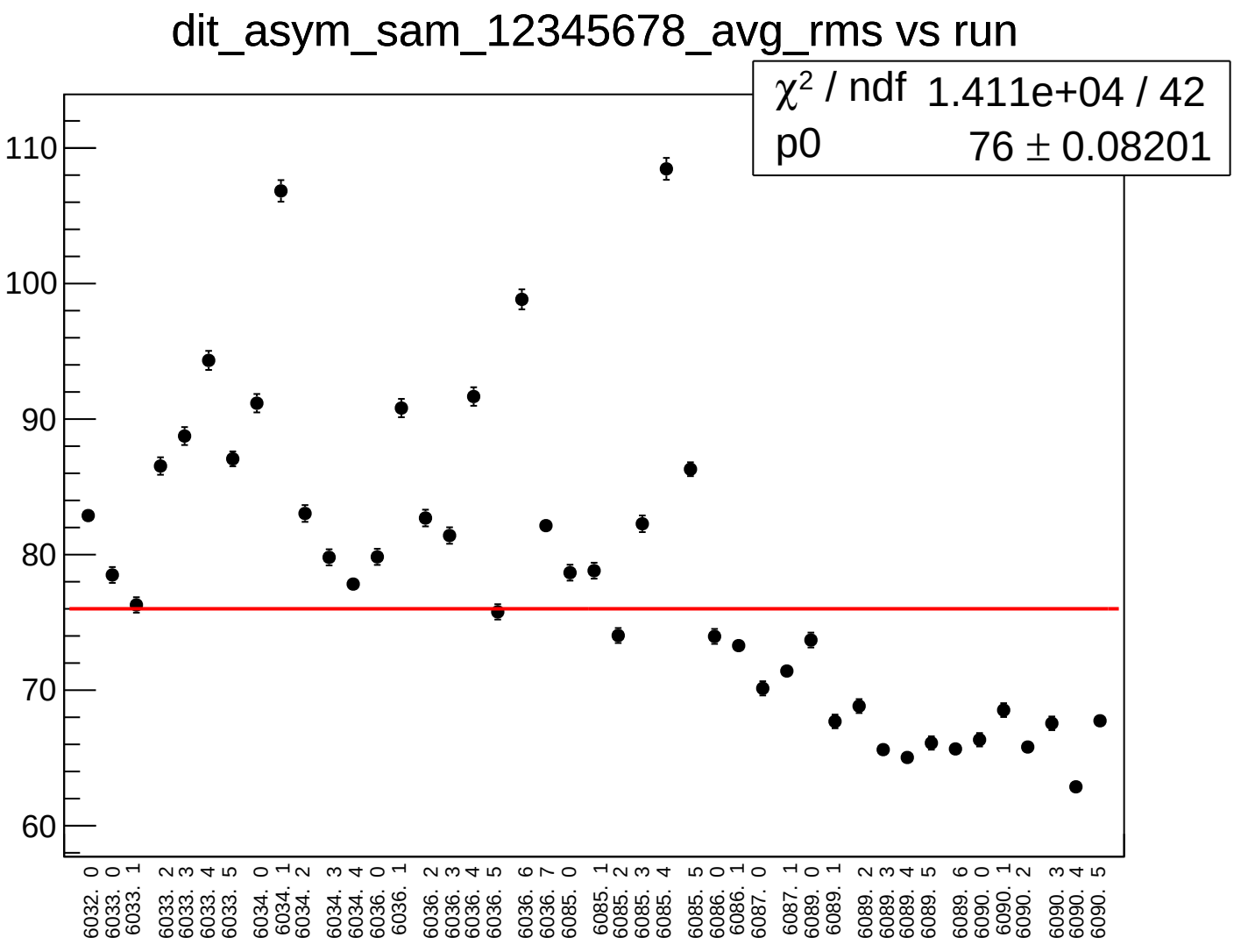

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 9839 / 42
p0 61.43 ± 0.06612
90
85
80
75
70
65
60
55
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

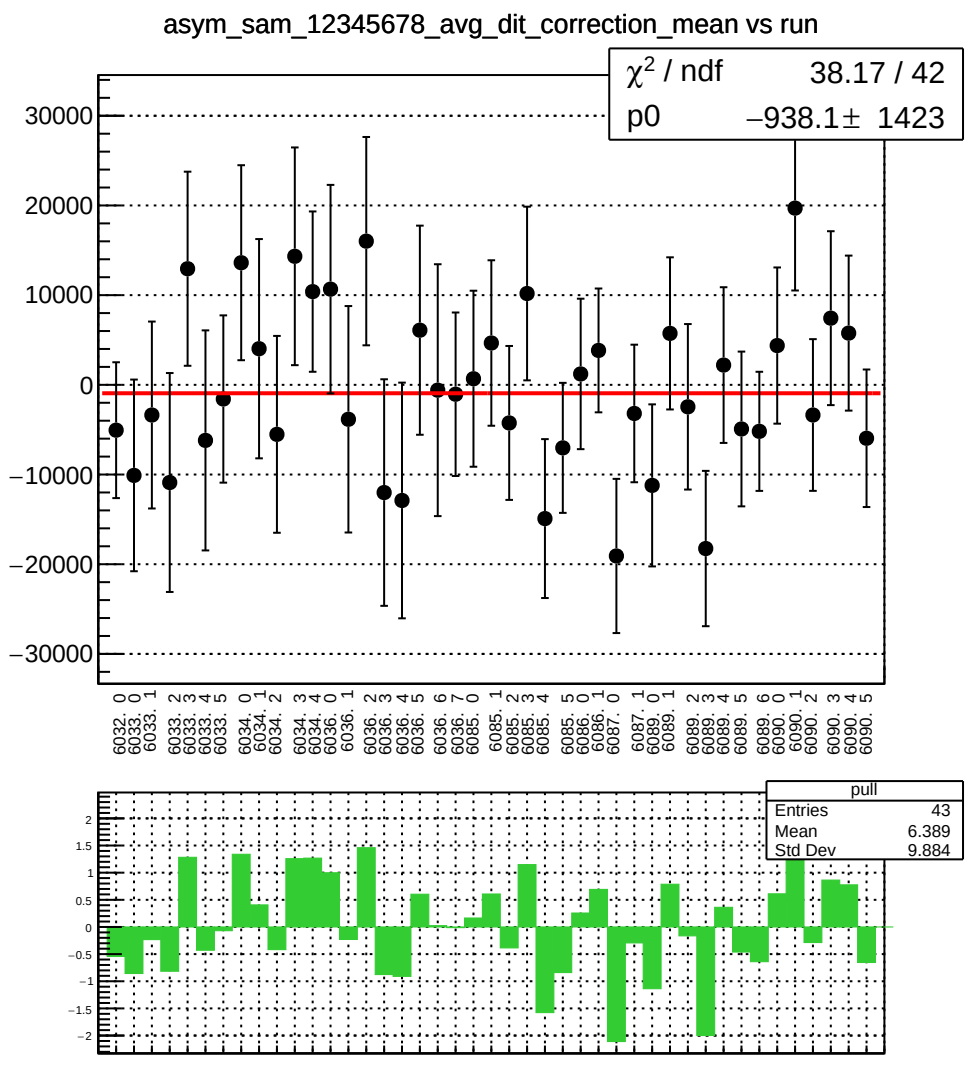

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 38.48 / 42
p0 −1029 ± 1409
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 9.77
Std Dev 15.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

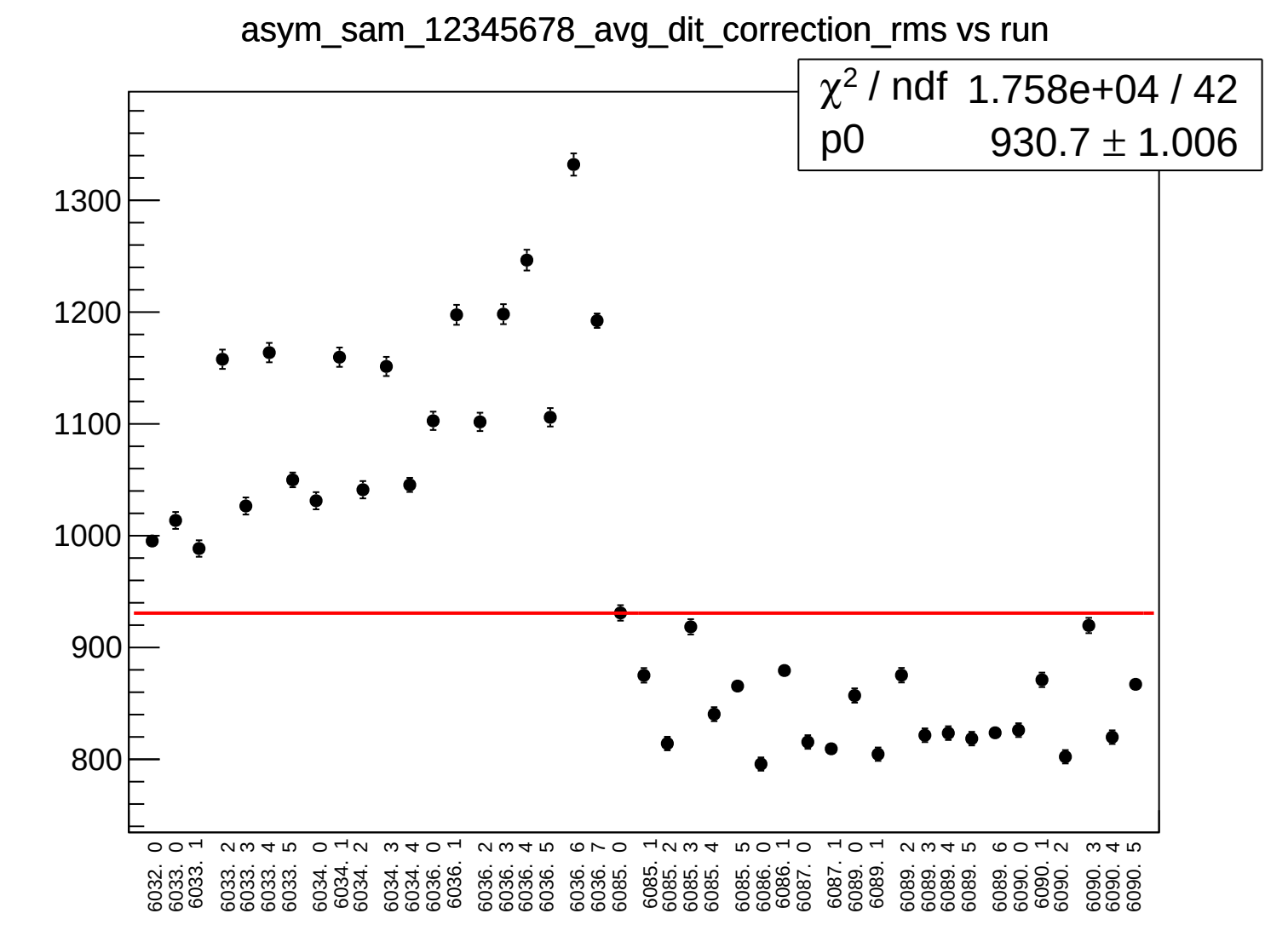

pull1D
Entries 43
Mean 0.02815
Std Dev 0.9456
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

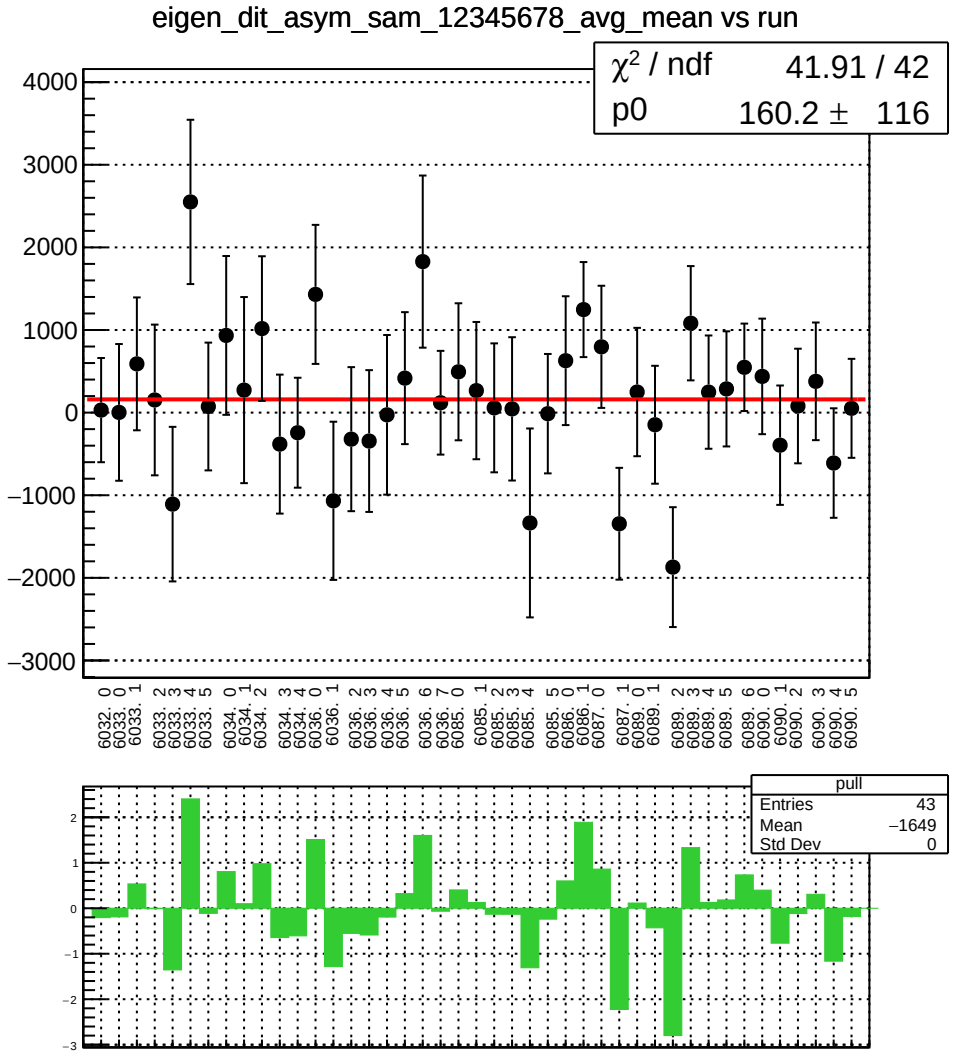

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.834e+04 / 42
p0 921 ± 0.9961
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

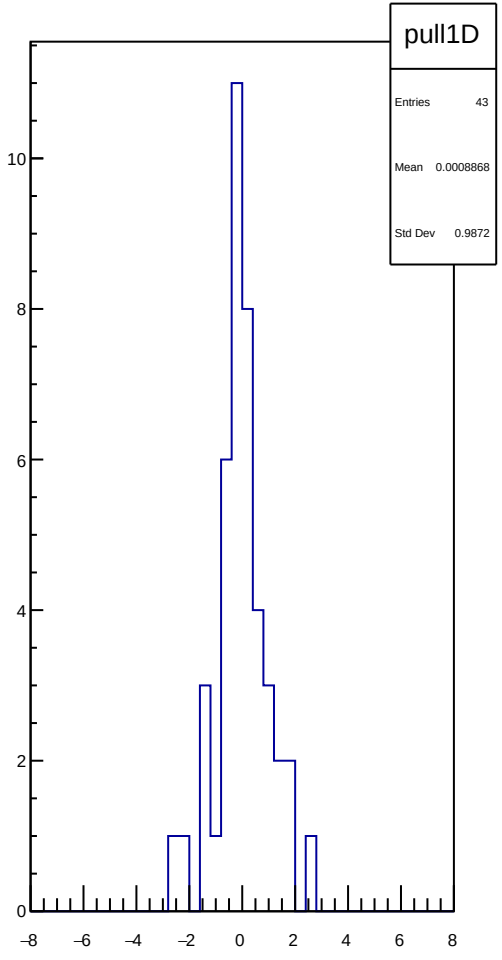

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 41.91 / 42
p0 160.2 ± 116
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1647
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0008879
Std Dev 0.9872
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

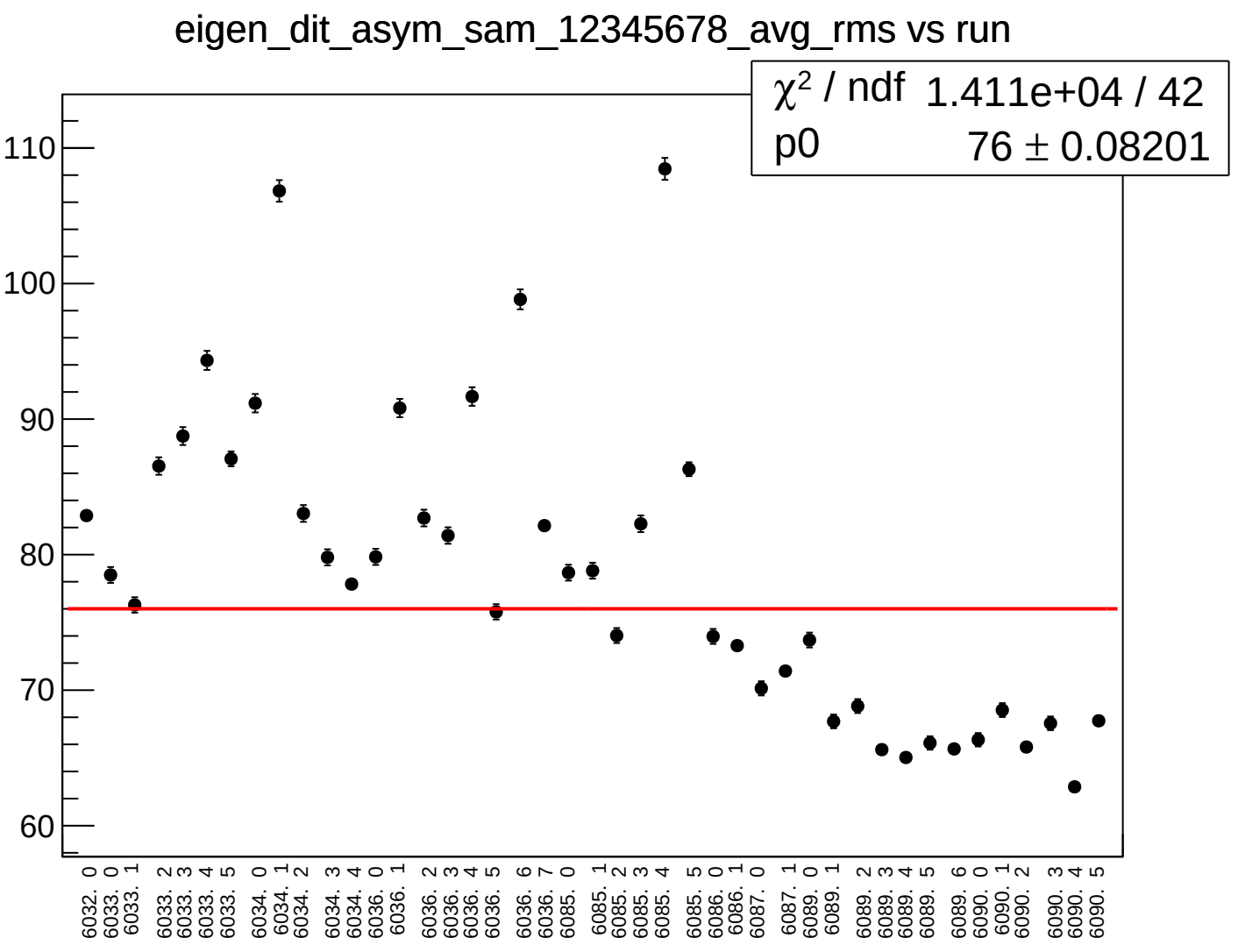

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.411e+04 / 42
p0 76 ± 0.08201
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5


asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 38.17 / 42
p0 −938.1± 1423
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 6.389
Std Dev 9.884
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02825
Std Dev 0.9417
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

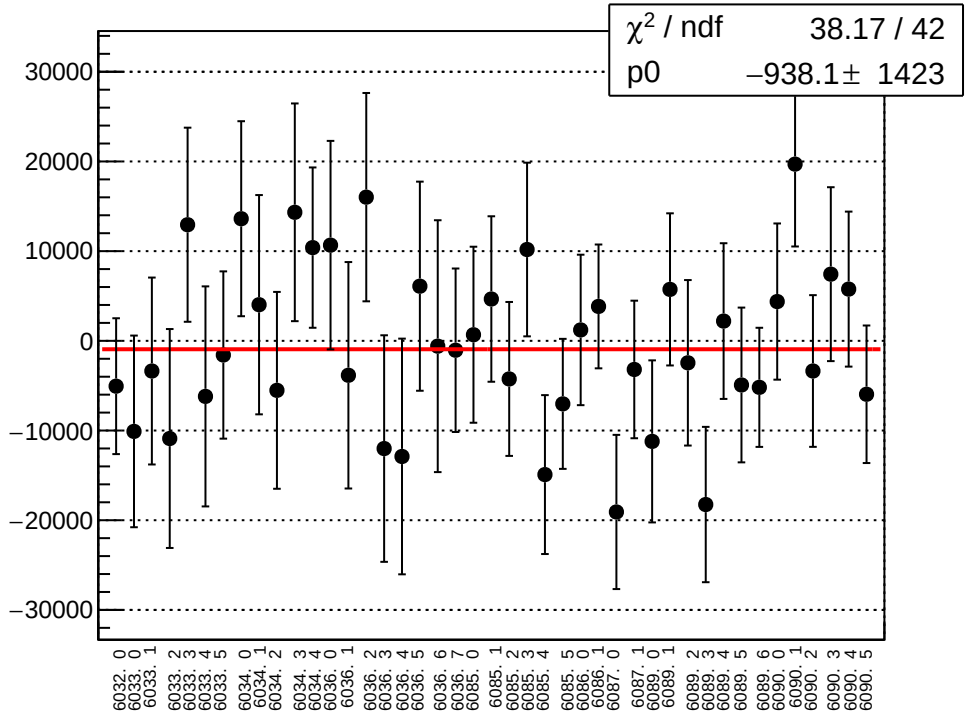

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.758e+04 / 42
p0 930.7 ± 1.006
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

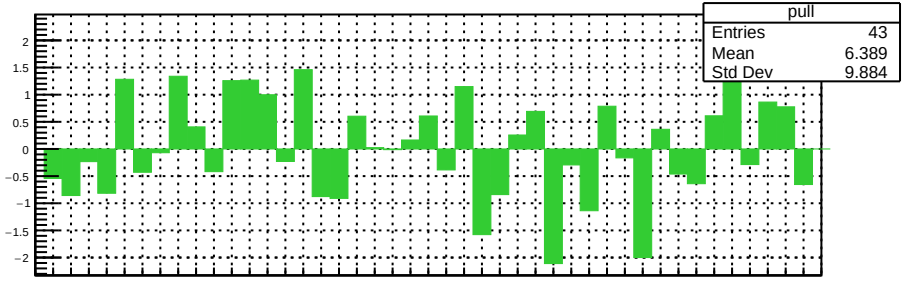

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 41.91 / 42
p0 160.2 ± 116
4000
3000
2000
1000
0
−1000
−2000
−3000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1649
Std Dev 0
2
1
0
−1
−2
−3

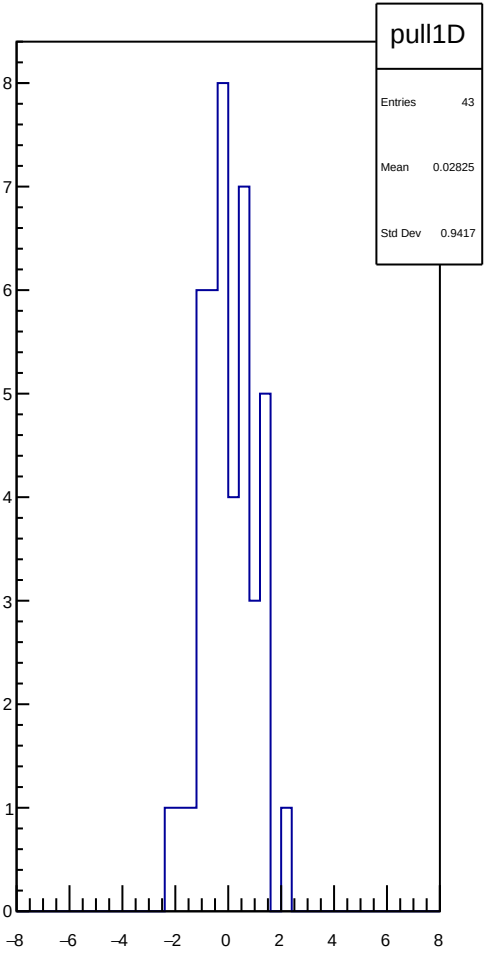

pull1D
Entries 43
Mean 0.0008868
Std Dev 0.9872
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

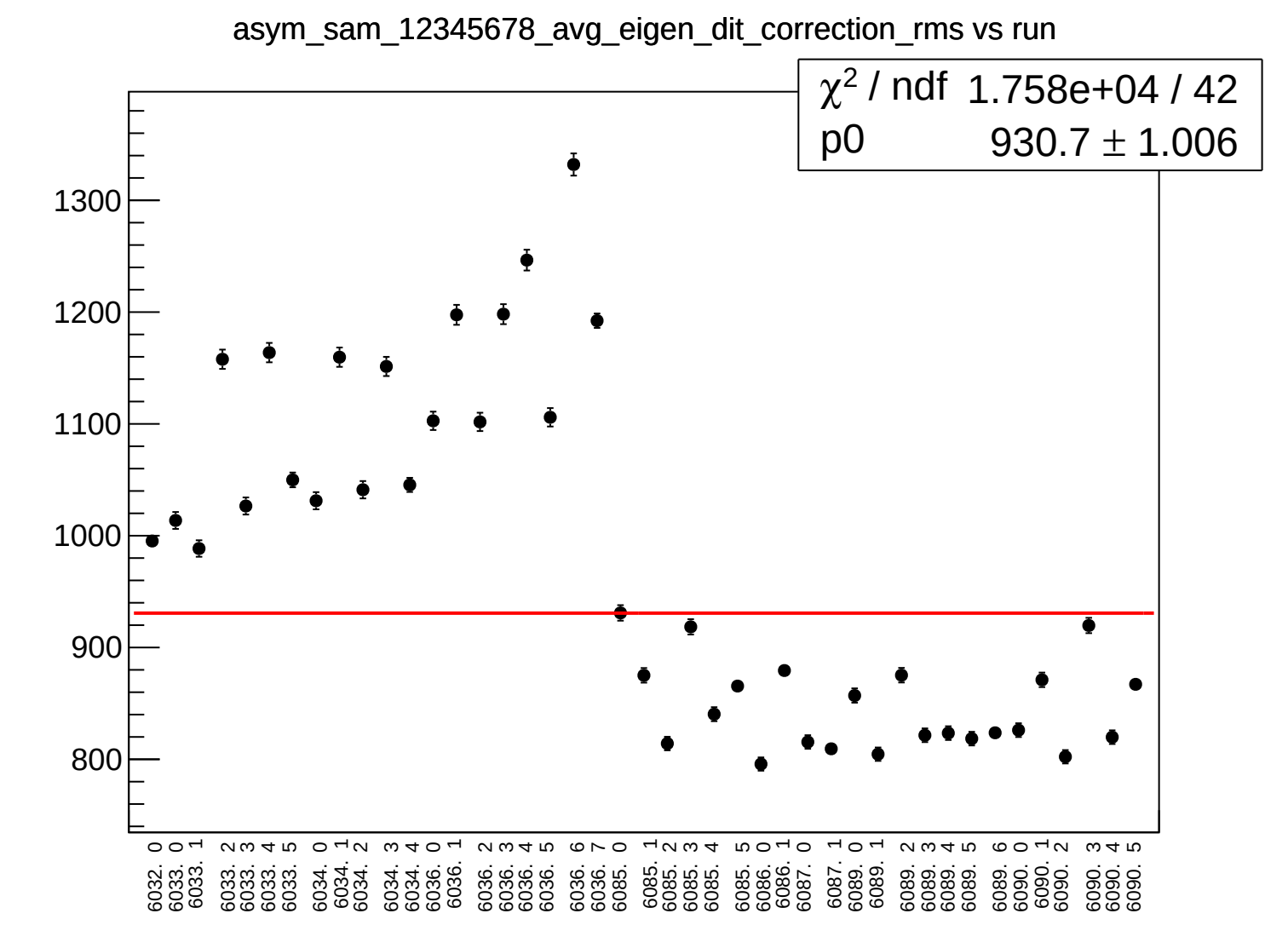

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.411e+04 / 42
p0 76 ± 0.08201
110
100
90
80
70
60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

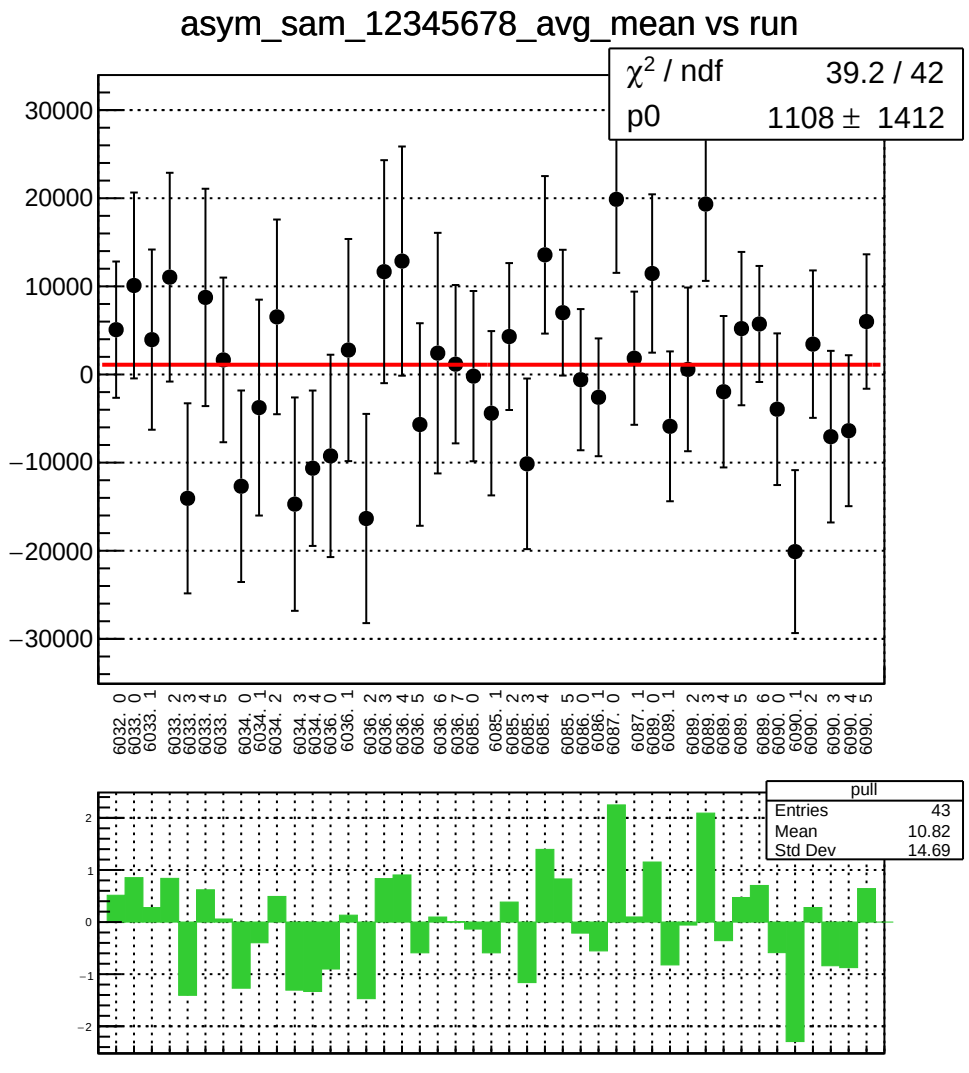
asym_sam_12345678_avg_eigen_dit_correction_mean vs run

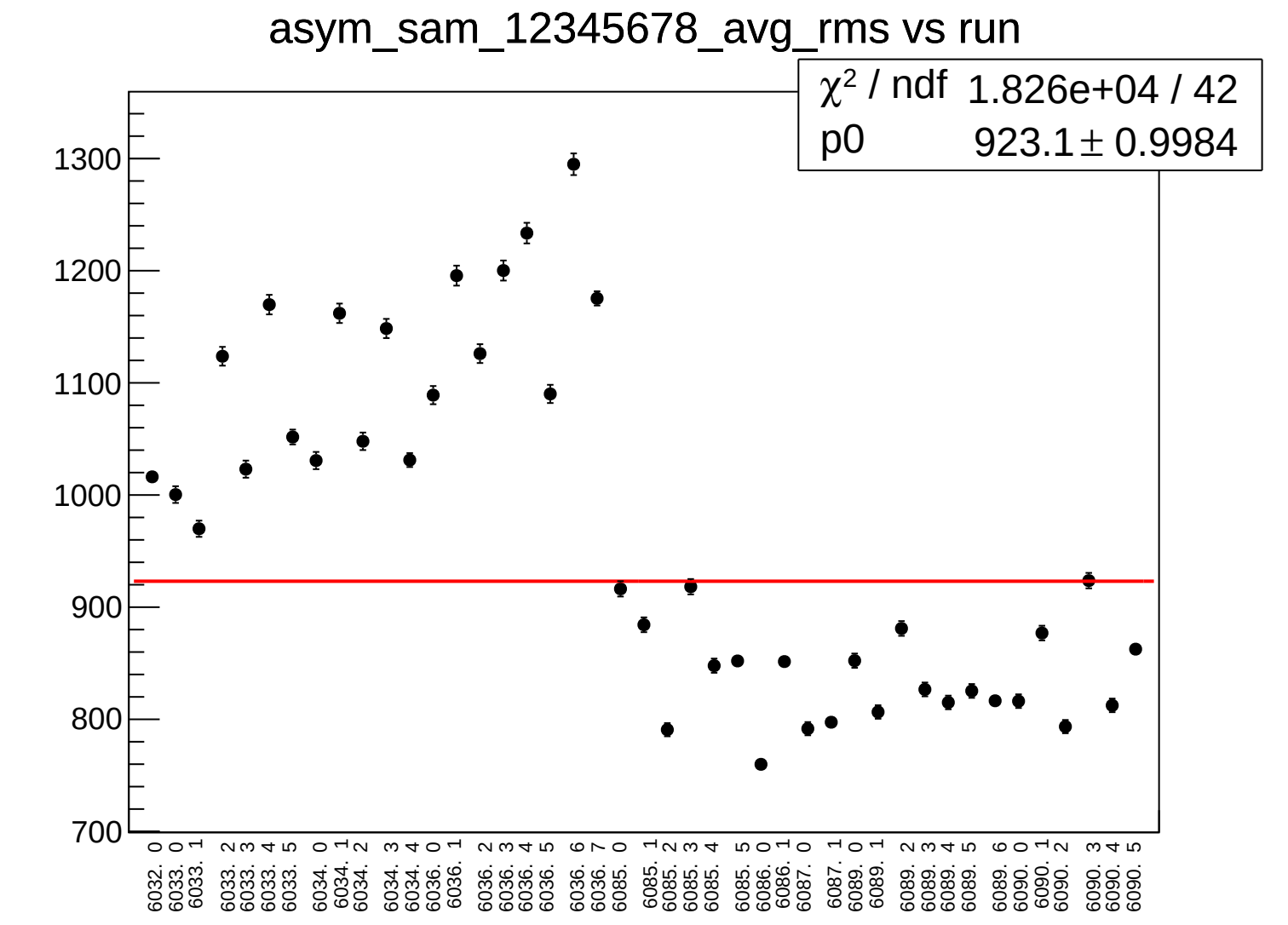


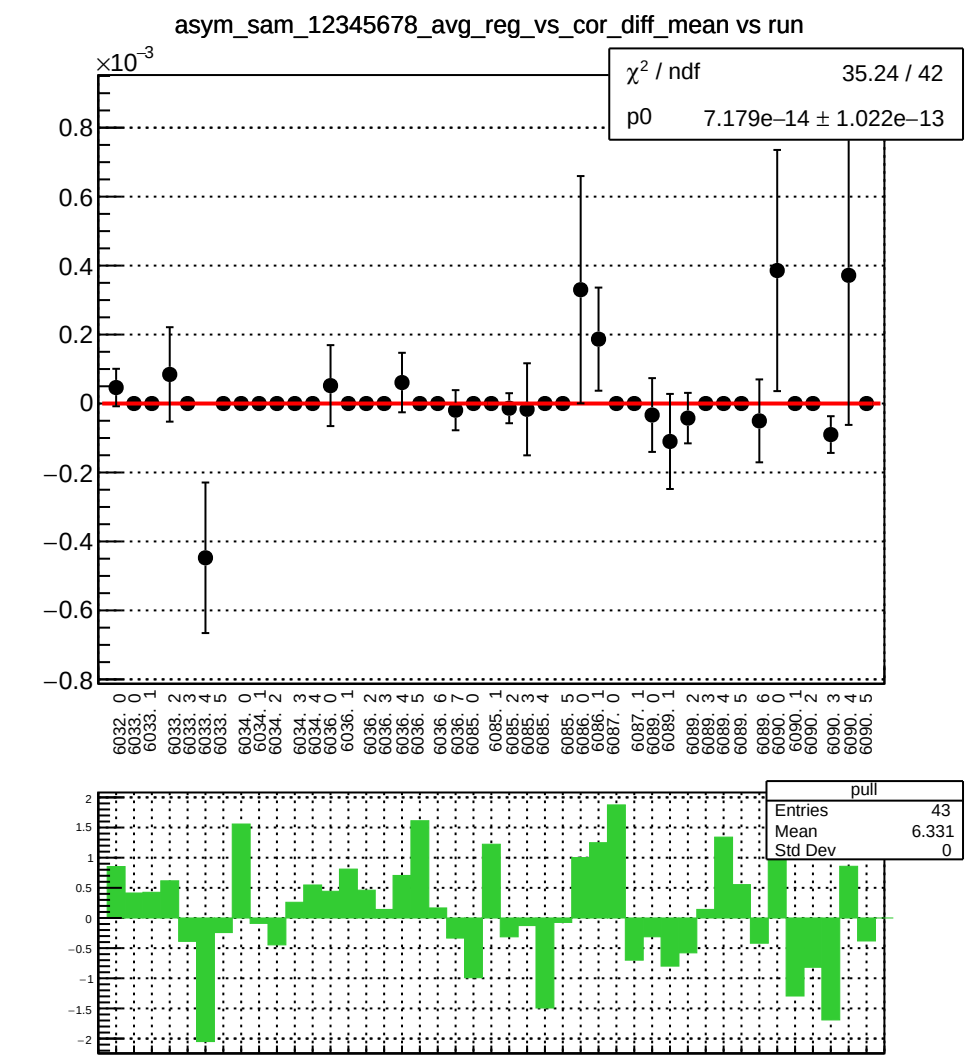


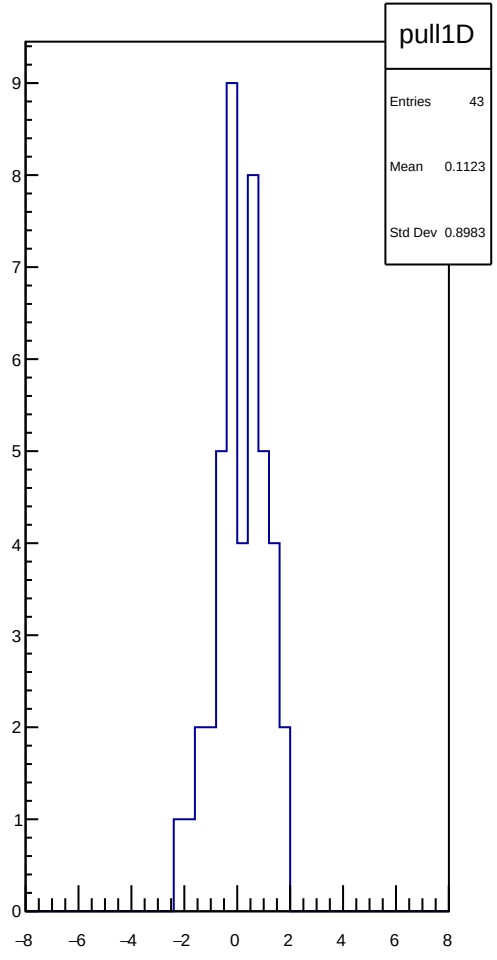


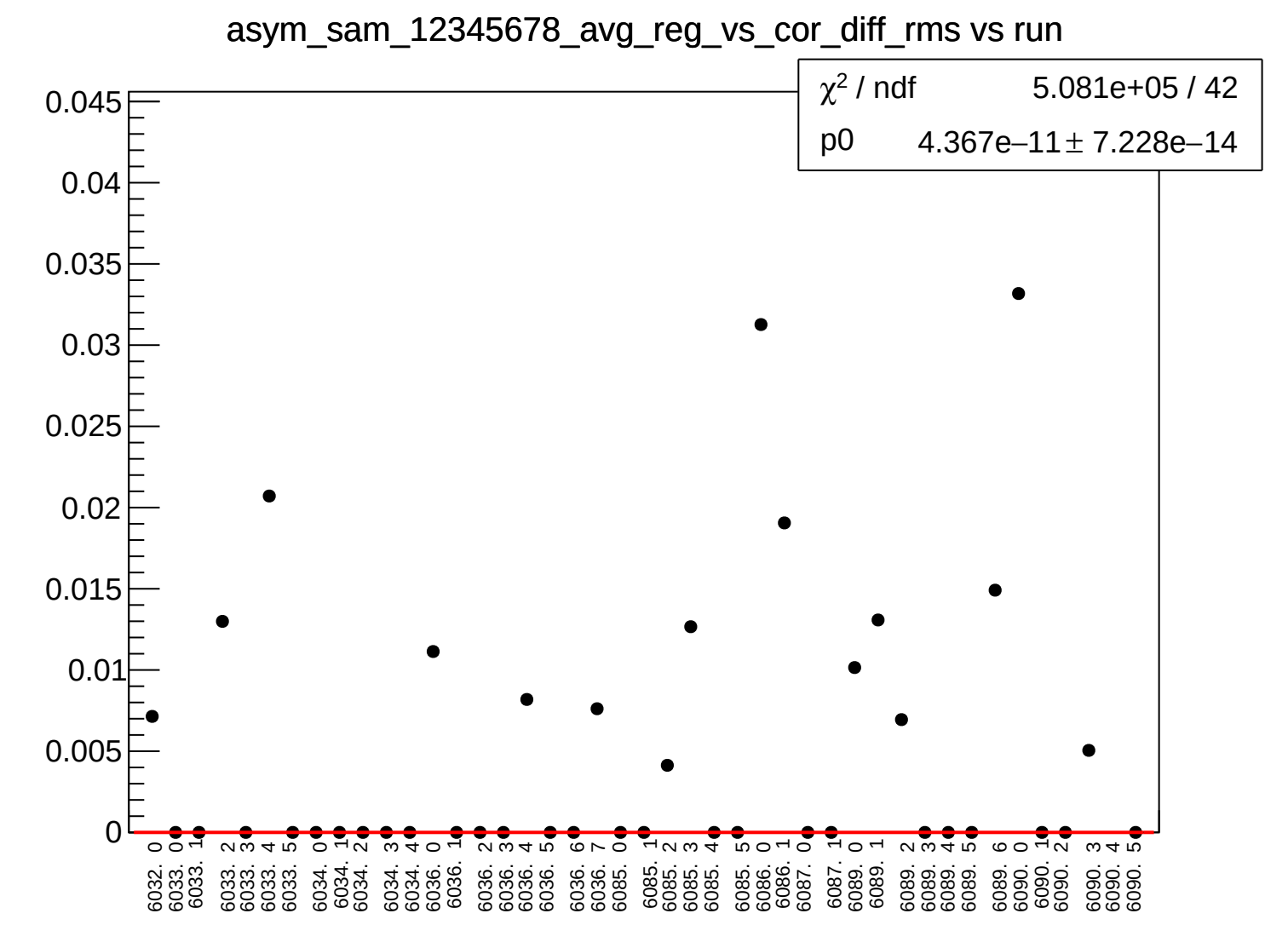

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.758e+04 / 42
p0 930.7 ± 1.006
1300
1200
1100
1000
900
800
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

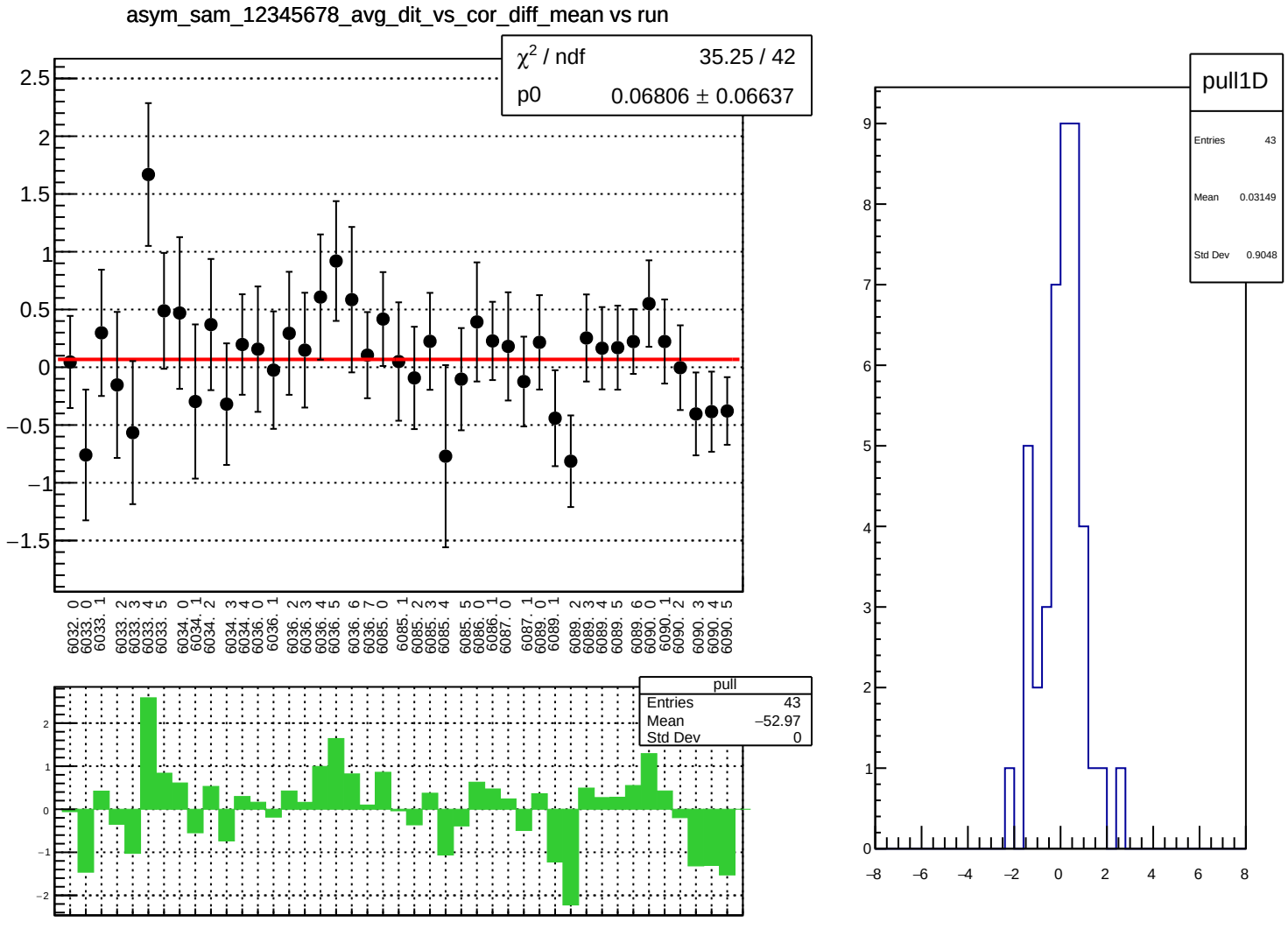

asym_sam_12345678_avg_mean vs run
χ² / ndf 39.2 / 42
p0 1108 ± 1412
30000
20000
10000
0
−10000
−20000
−30000
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.82
Std Dev 14.69
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02864
Std Dev 0.9543
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

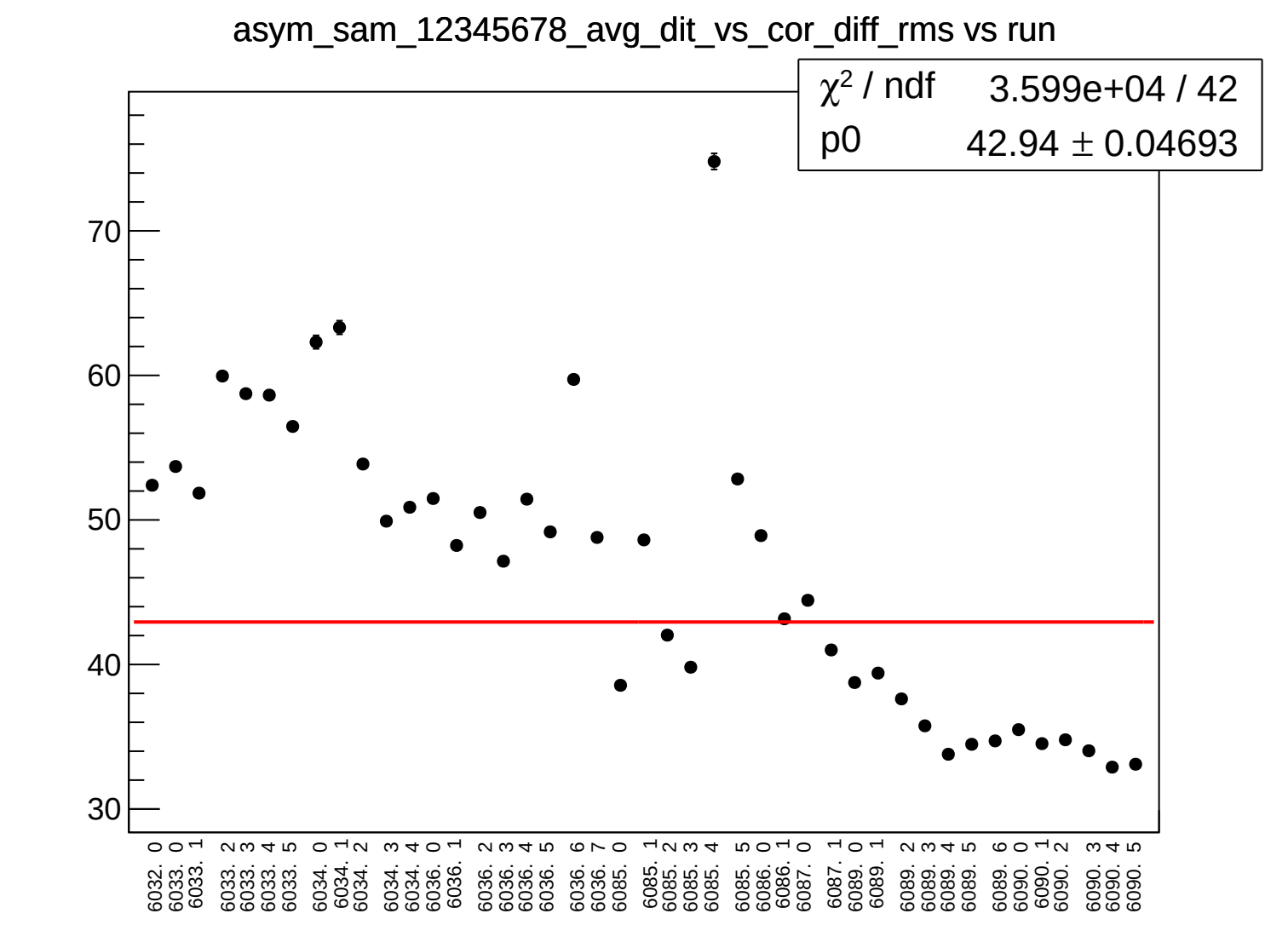

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.826e+04 / 42
p0 923.1 ± 0.9984
1300
1200
1100
1000
900
800
700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

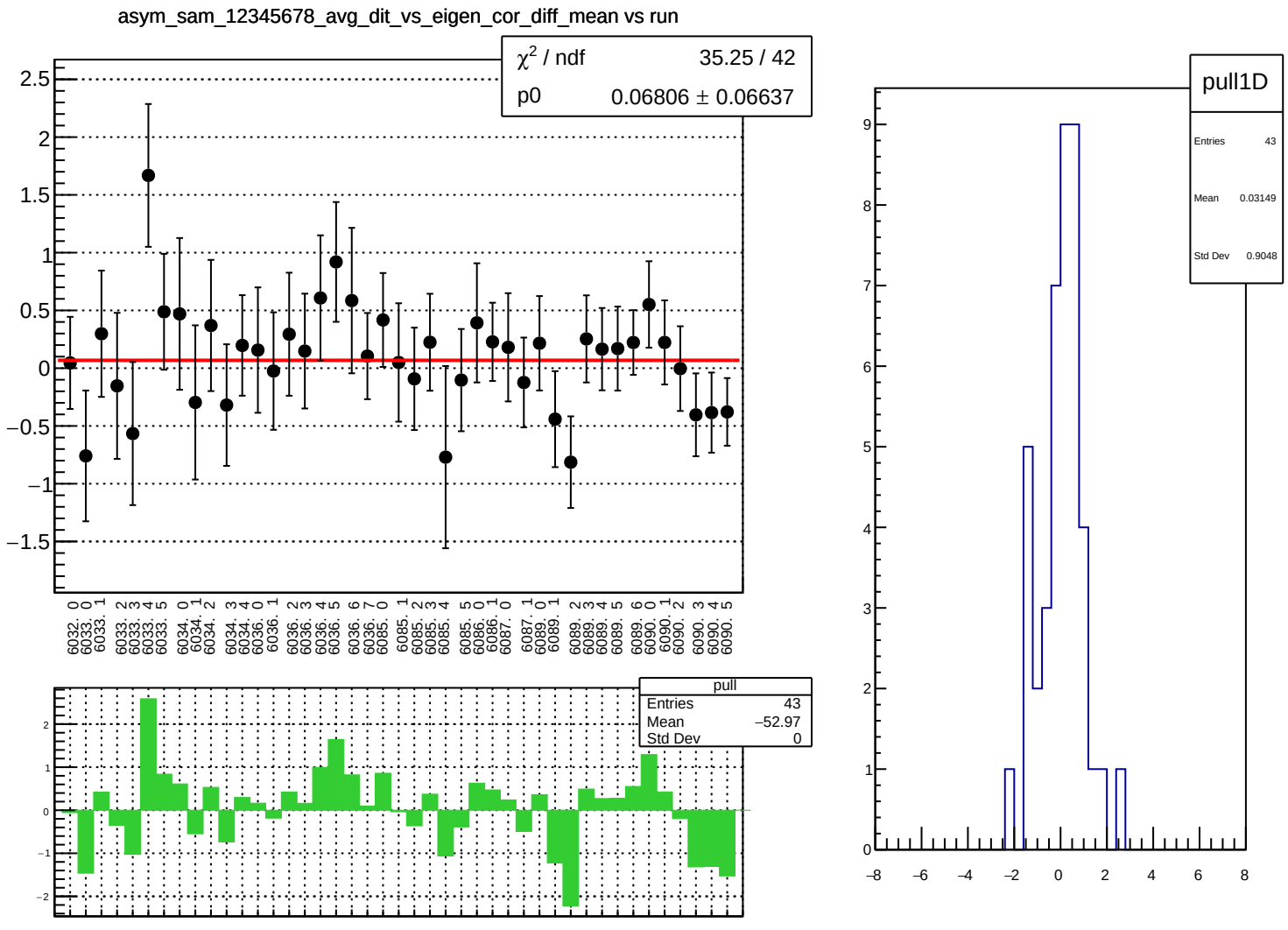

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 35.24 / 42
p0 7.179e−14 ± 1.022e−13
pull
Entries 43
Mean 6.331
Std Dev 0

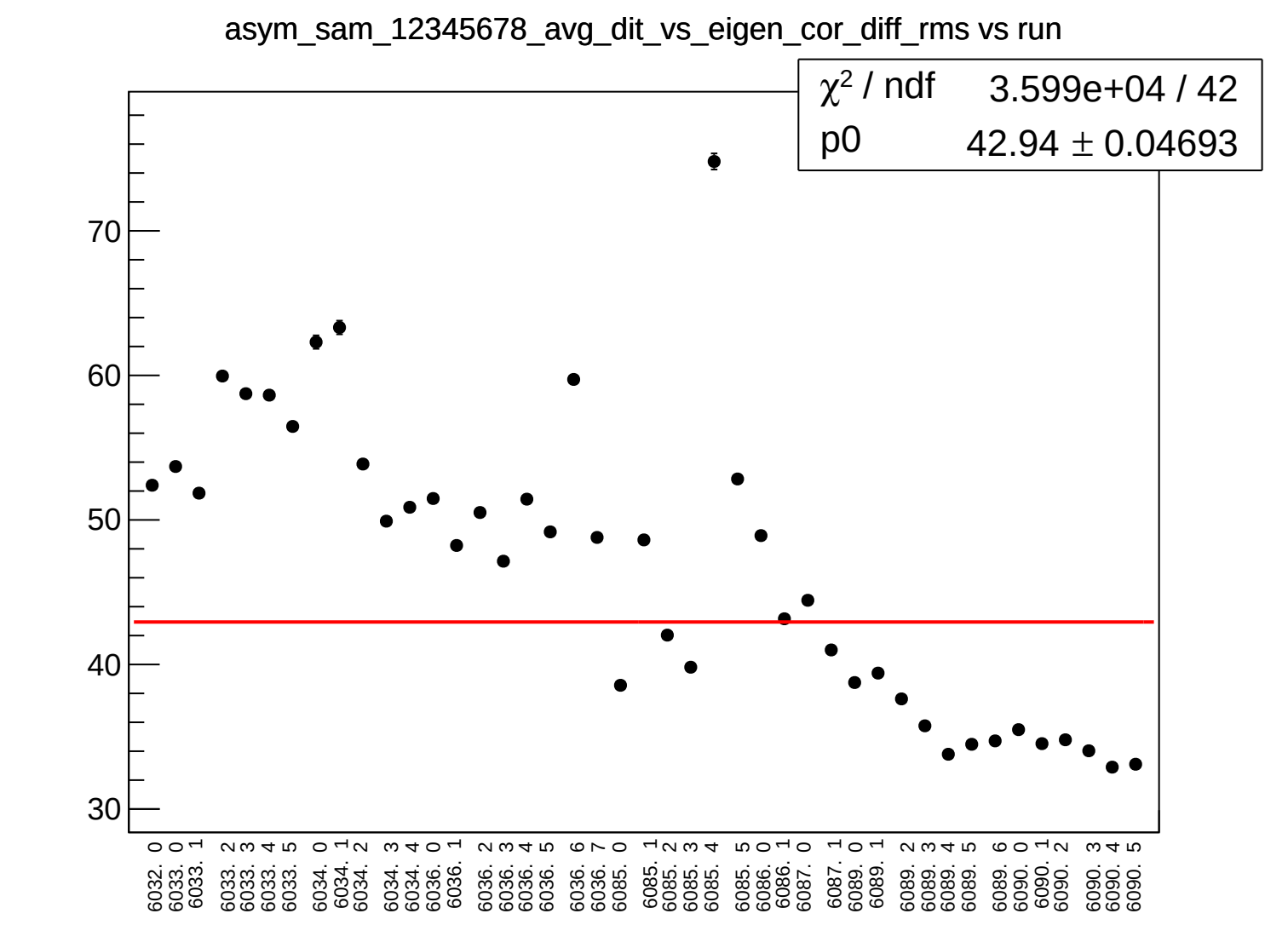

pull1D
Entries 43
Mean 0.1123
Std Dev 0.8983

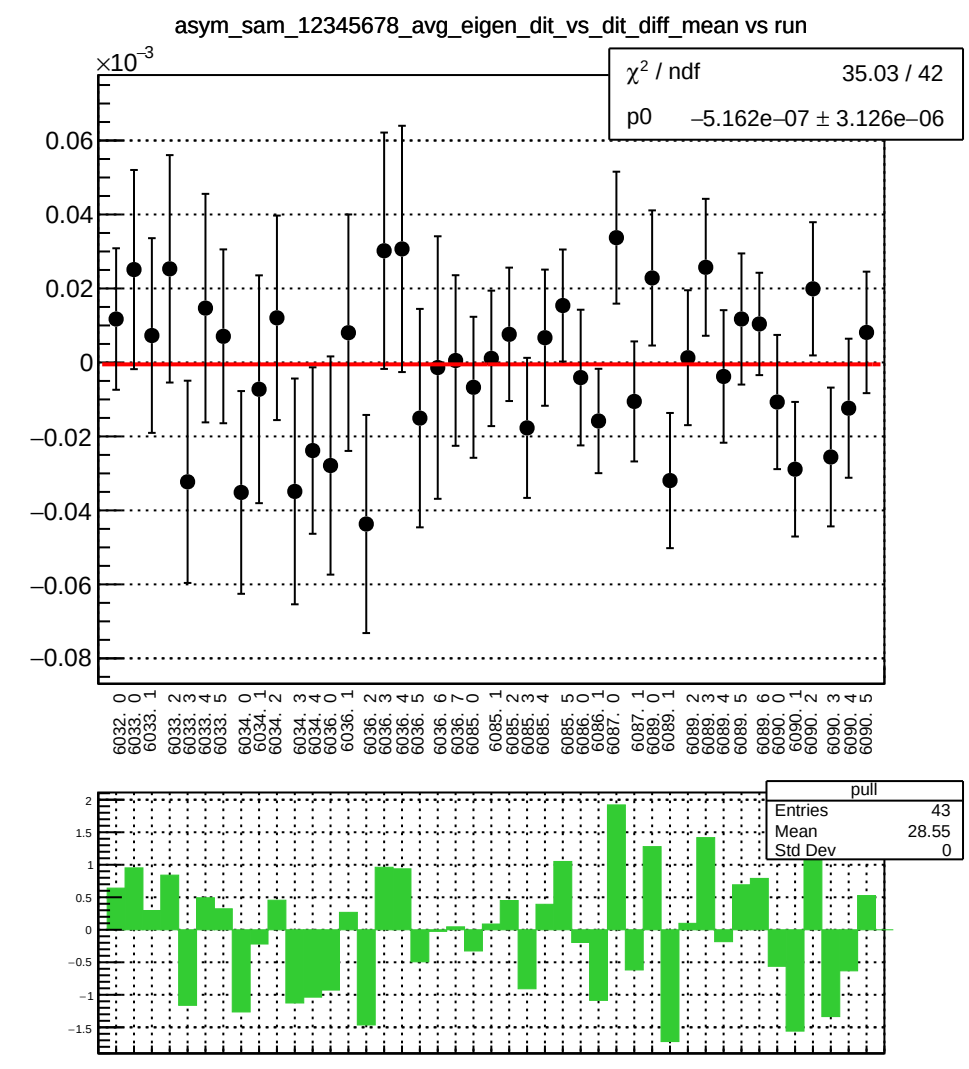

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.081e+05 / 42
p0 4.367e−11 ± 7.228e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

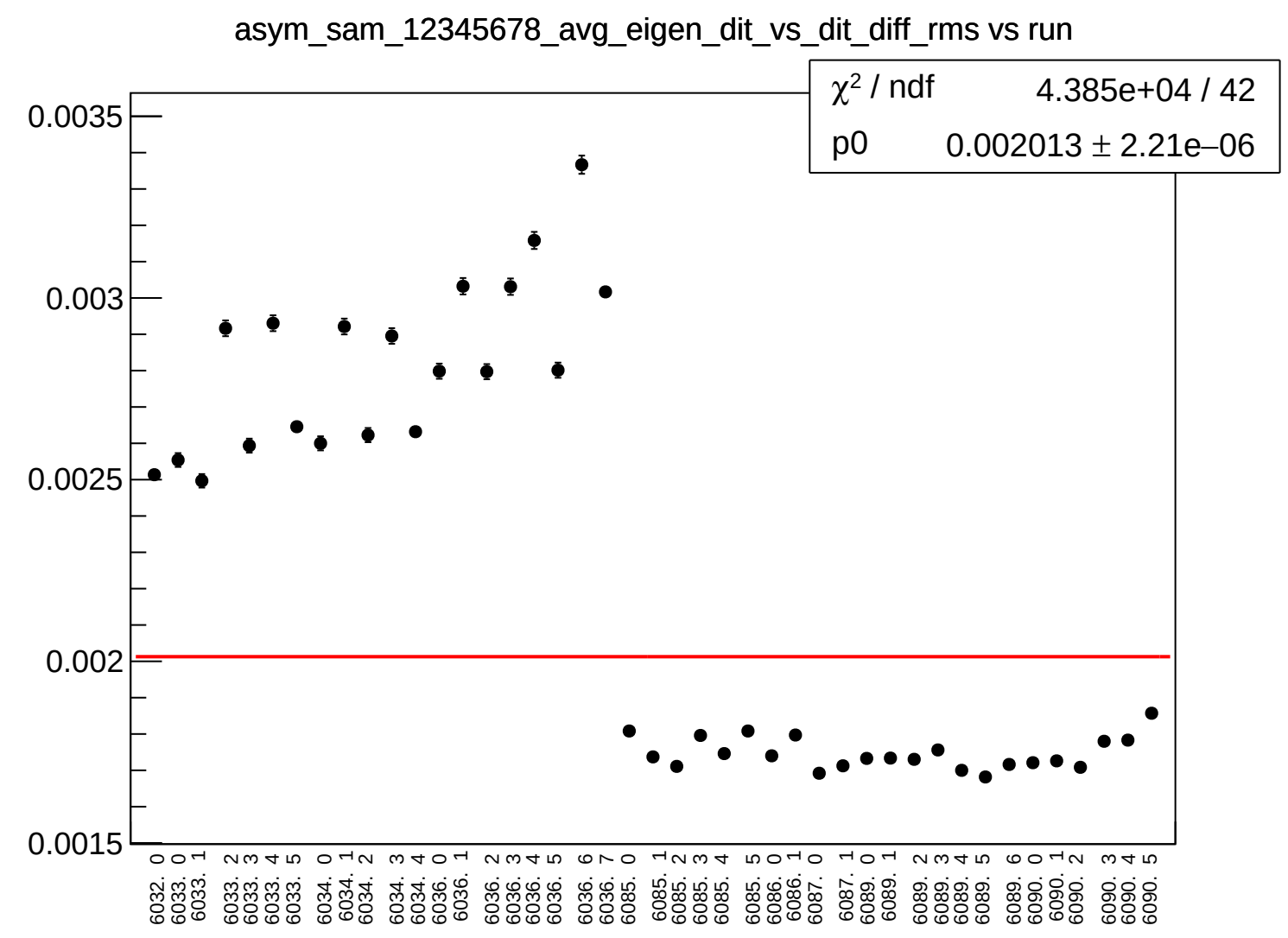

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.25 / 42
p0 0.06806 ± 0.06637
pull
Entries 43
Mean −52.97
Std Dev 0
pull1D
Entries 43
Mean 0.03149
Std Dev 0.9048

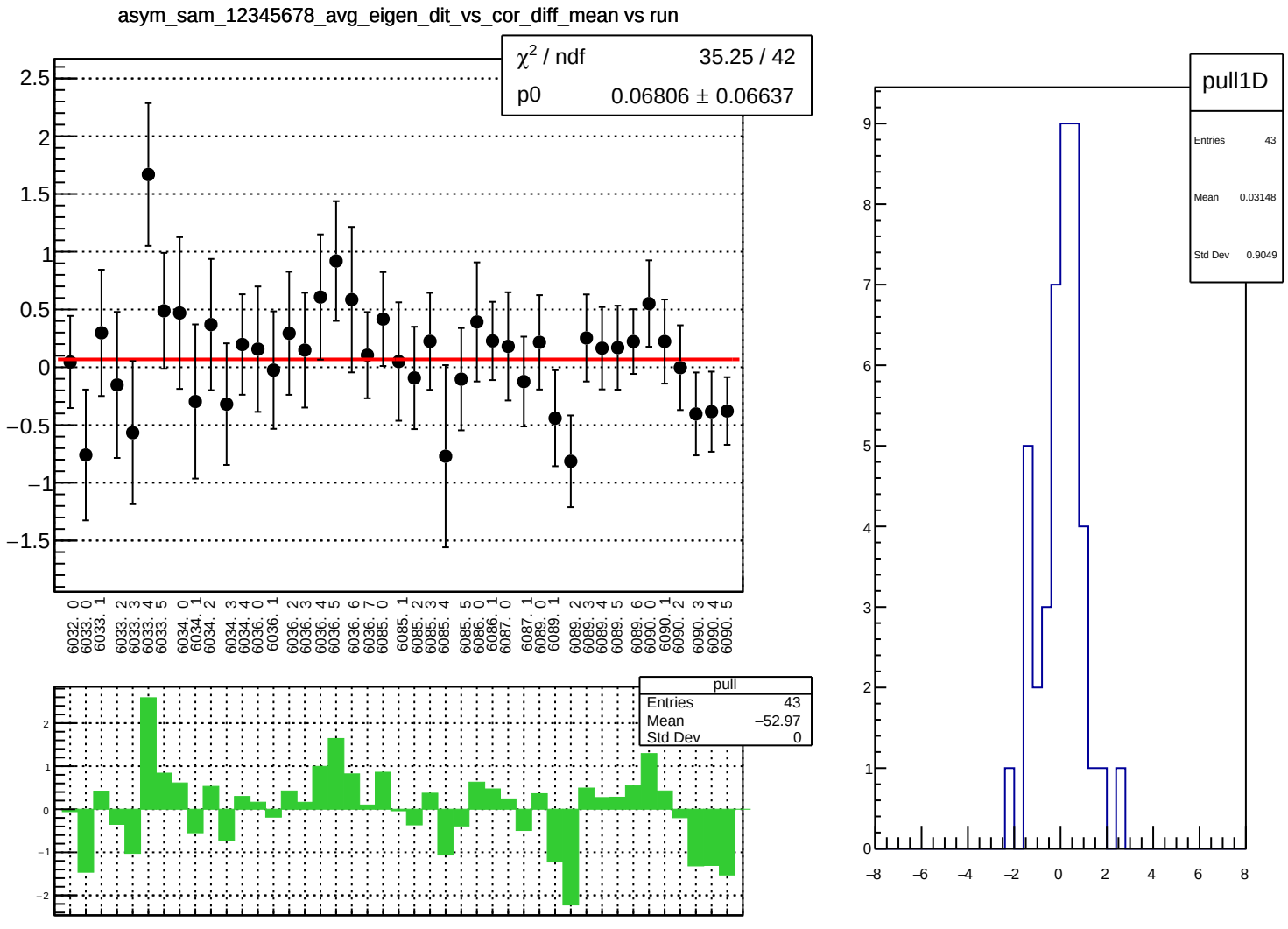

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.599e+04 / 42
p0 42.94 ± 0.04693
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

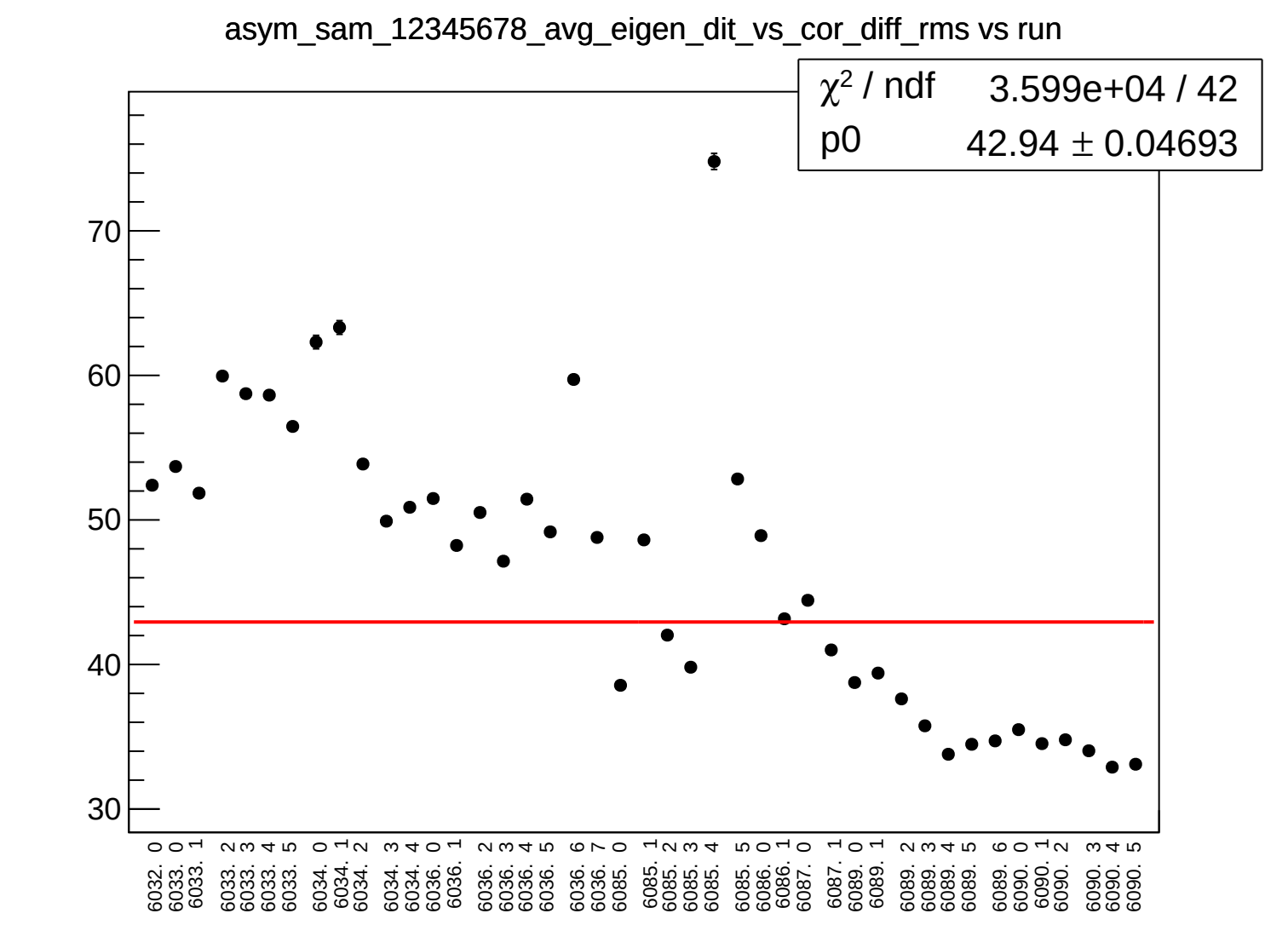

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.25 / 42
p0 0.06806 ± 0.06637
pull
Entries 43
Mean −52.97
Std Dev 0
pull1D
Entries 43
Mean 0.03149
Std Dev 0.9048

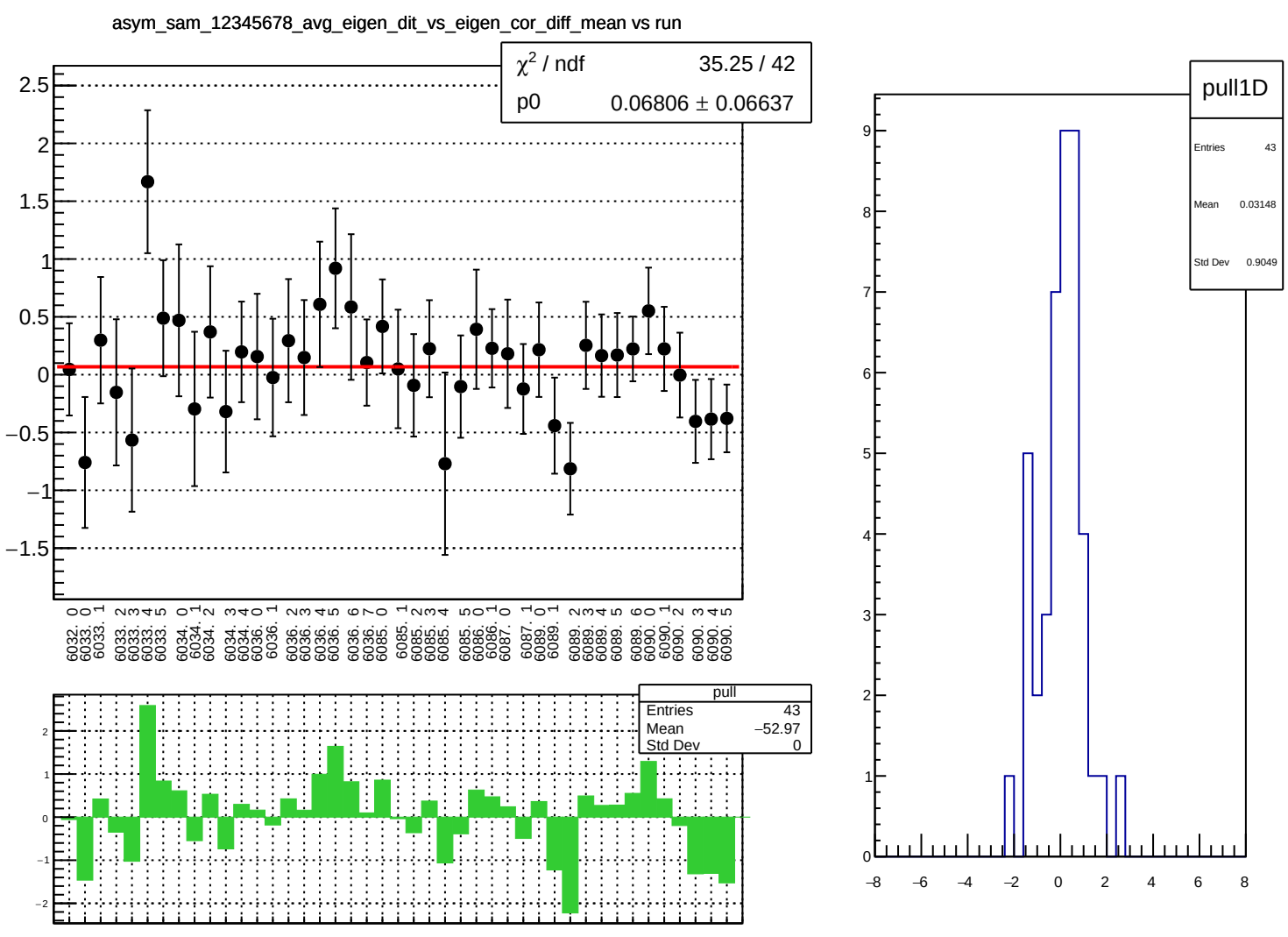

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.599e+04 / 42
p0 42.94 ± 0.04693
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

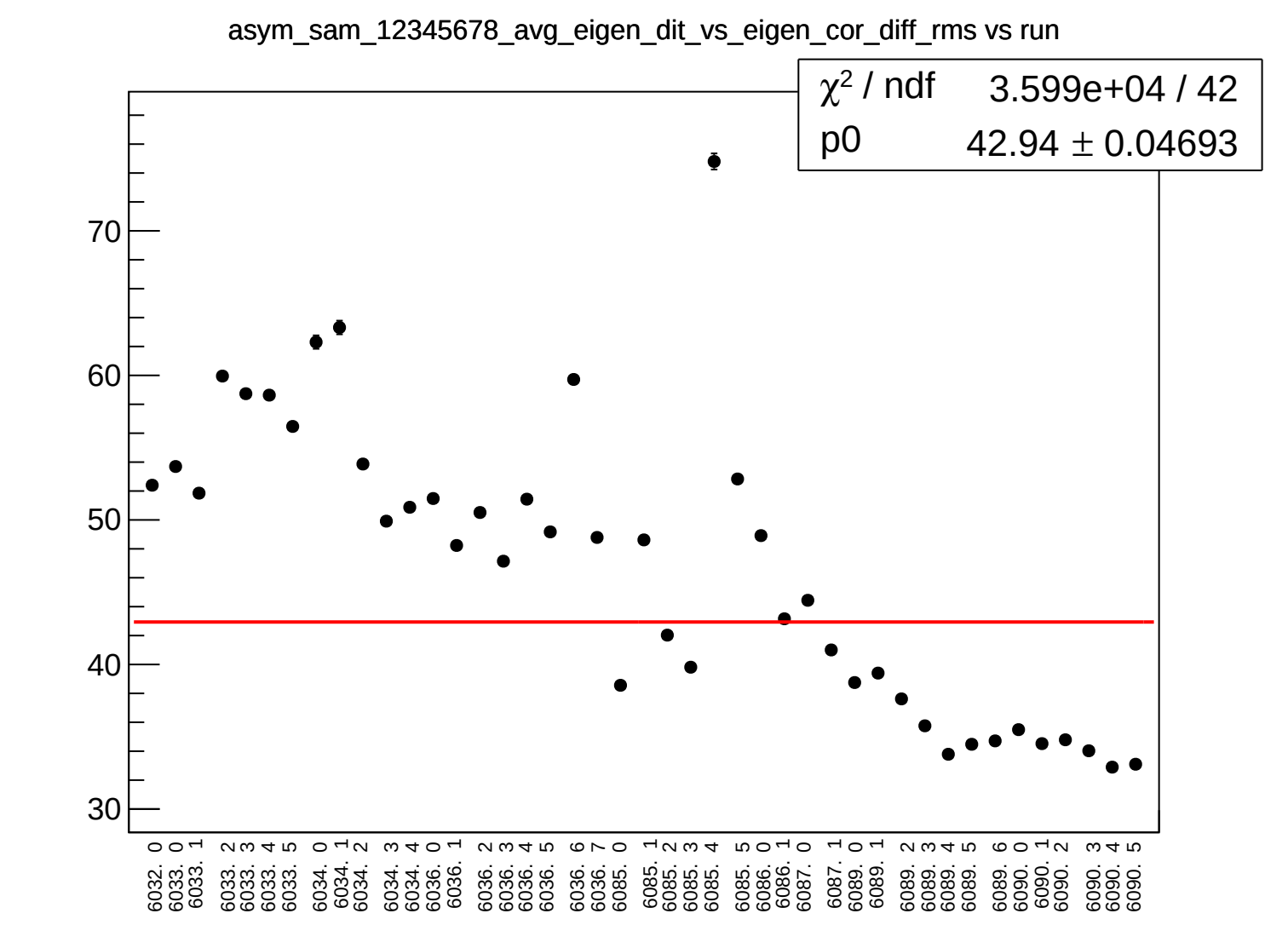

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.03 / 42
p0 −5.162e−07 ± 3.126e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 28.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01825
Std Dev 0.9024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

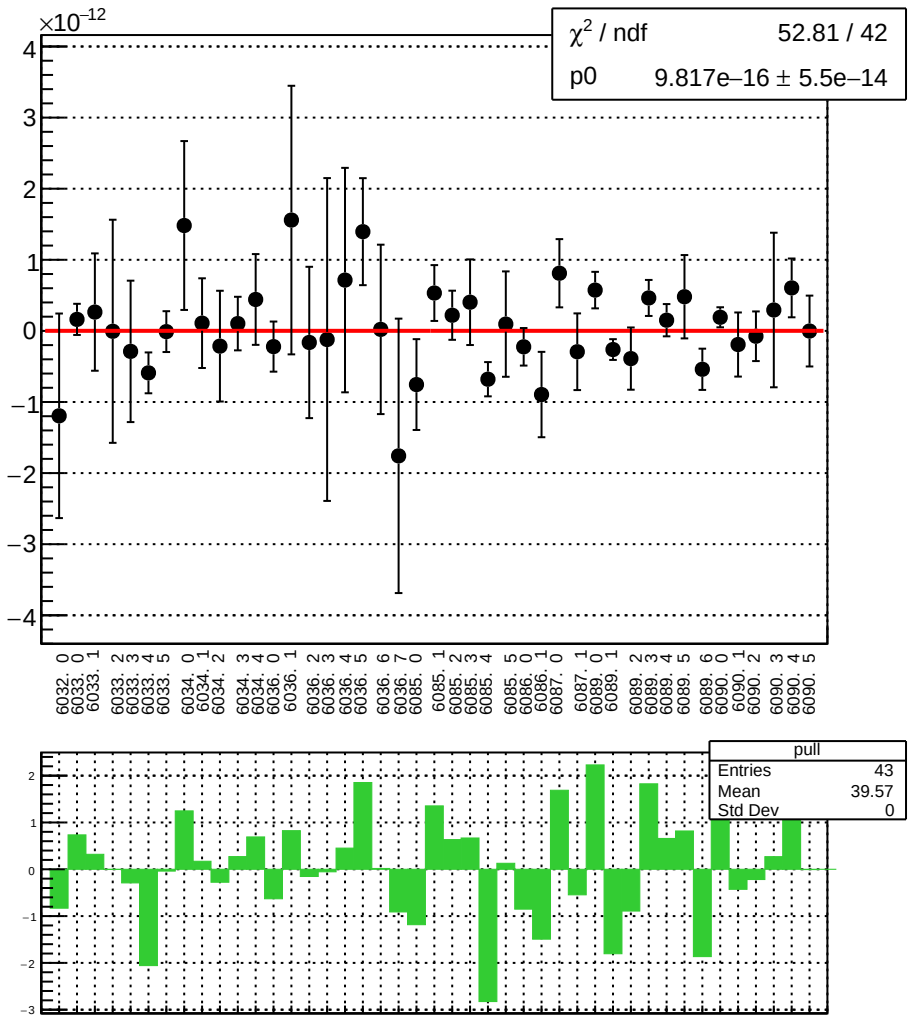

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.385e+04 / 42
p0 0.002013 ± 2.21e−06
0.0035
0.003
0.0025
0.002
0.0015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

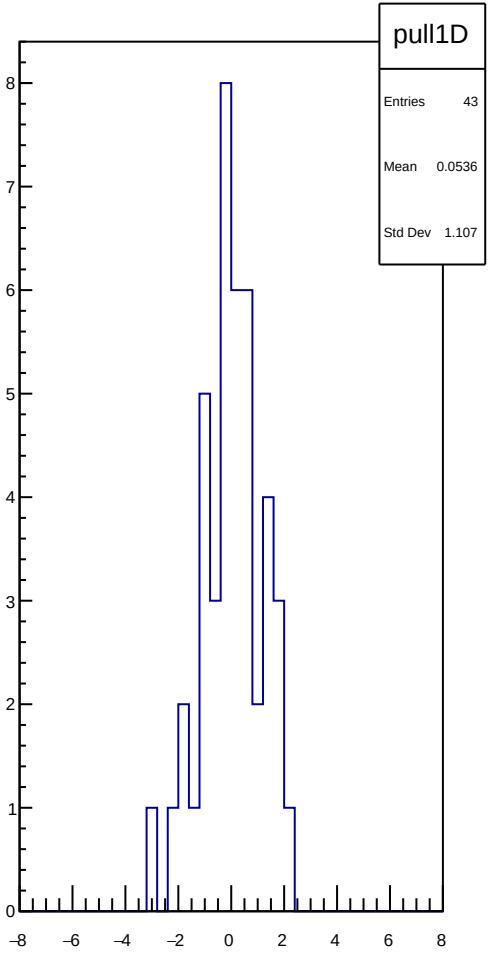

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.25 / 42
p0 0.06806 ± 0.06637
pull
Entries 43
Mean −52.97
Std Dev 0
pull1D
Entries 43
Mean 0.03148
Std Dev 0.9049

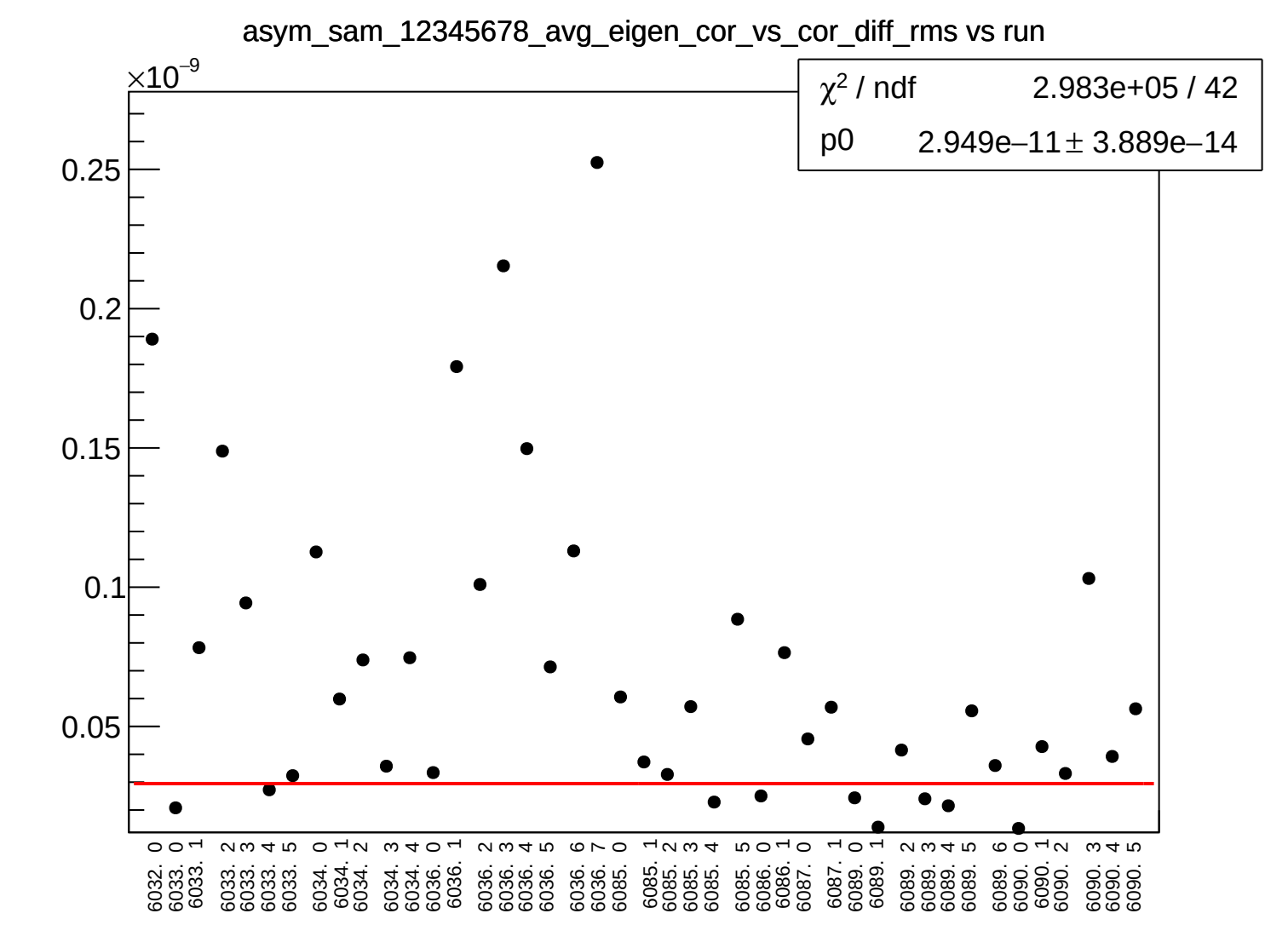

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.599e+04 / 42
p0 42.94 ± 0.04693
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

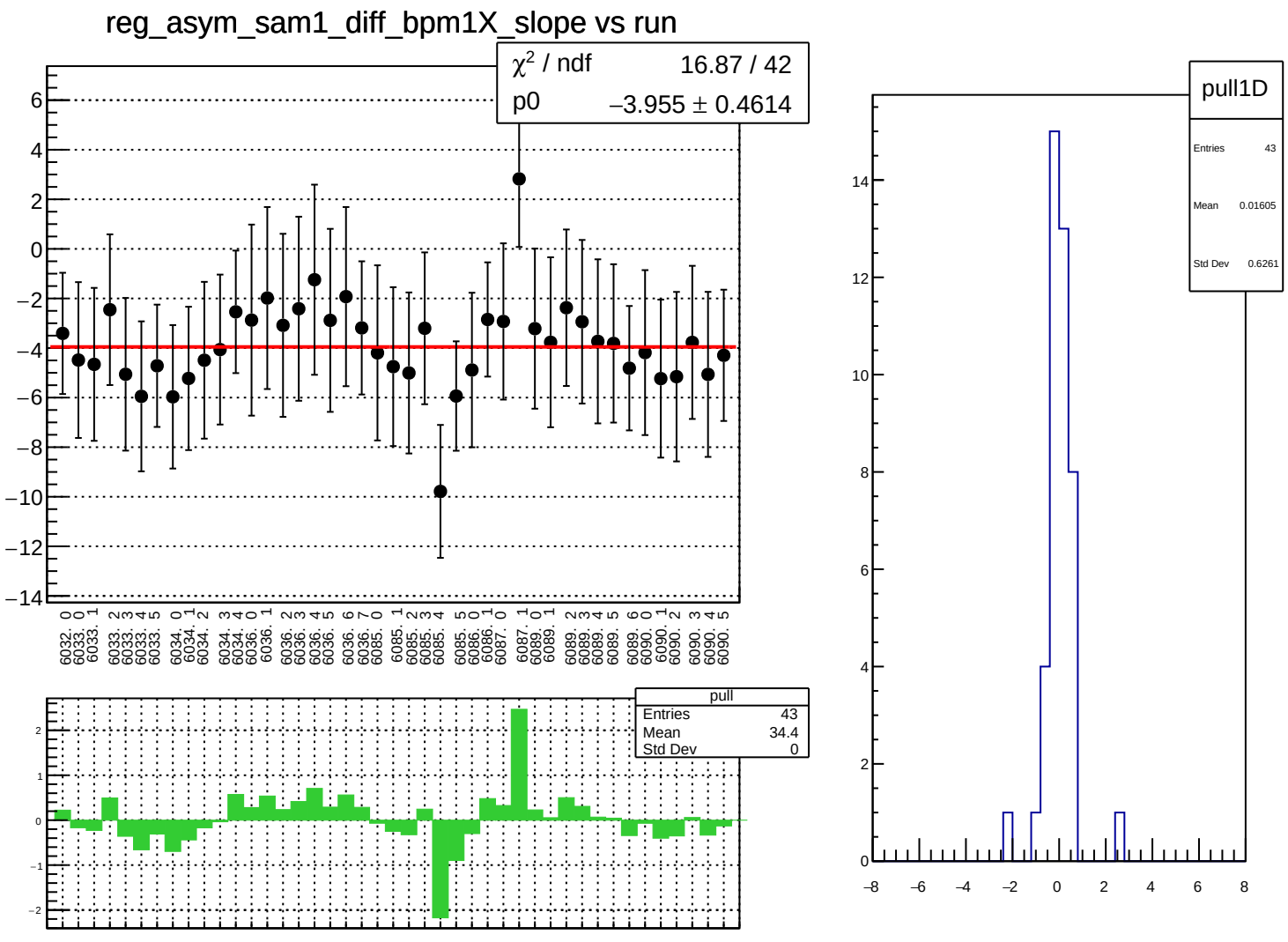

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.25 / 42
p0 0.06806 ± 0.06637
pull
Entries 43
Mean −52.97
Std Dev 0
pull1D
Entries 43
Mean 0.03148
Std Dev 0.9049

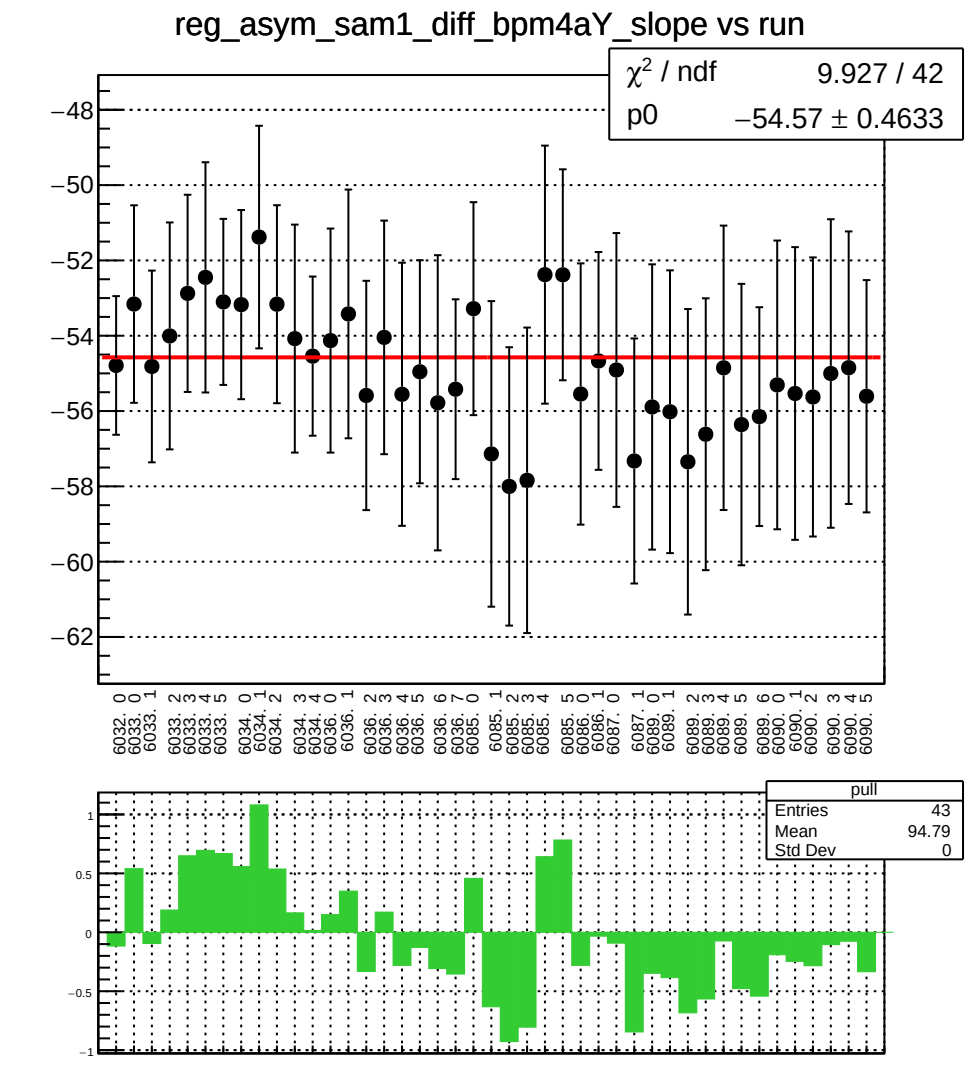

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.599e+04 / 42
p0 42.94 ± 0.04693
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

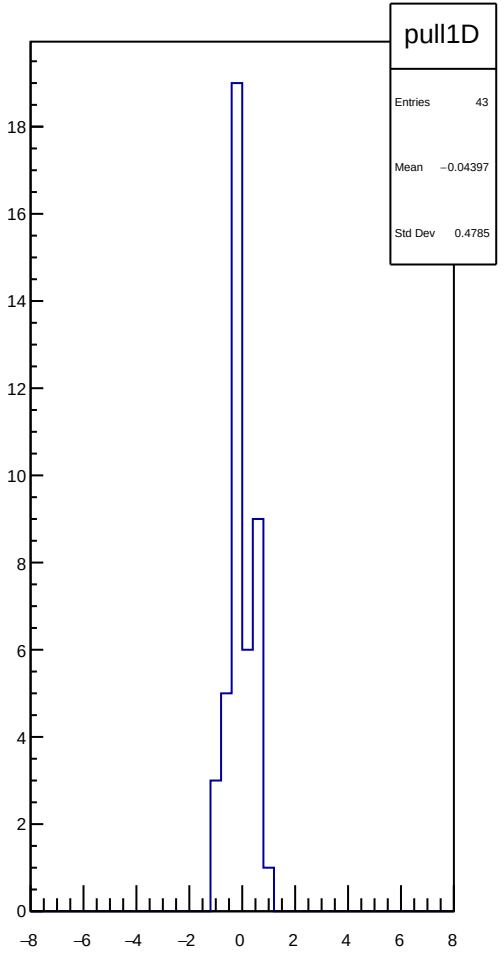

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.81 / 42
p0 9.817e−16 ± 5.5e−14
pull
Entries 43
Mean 39.57
Std Dev 0

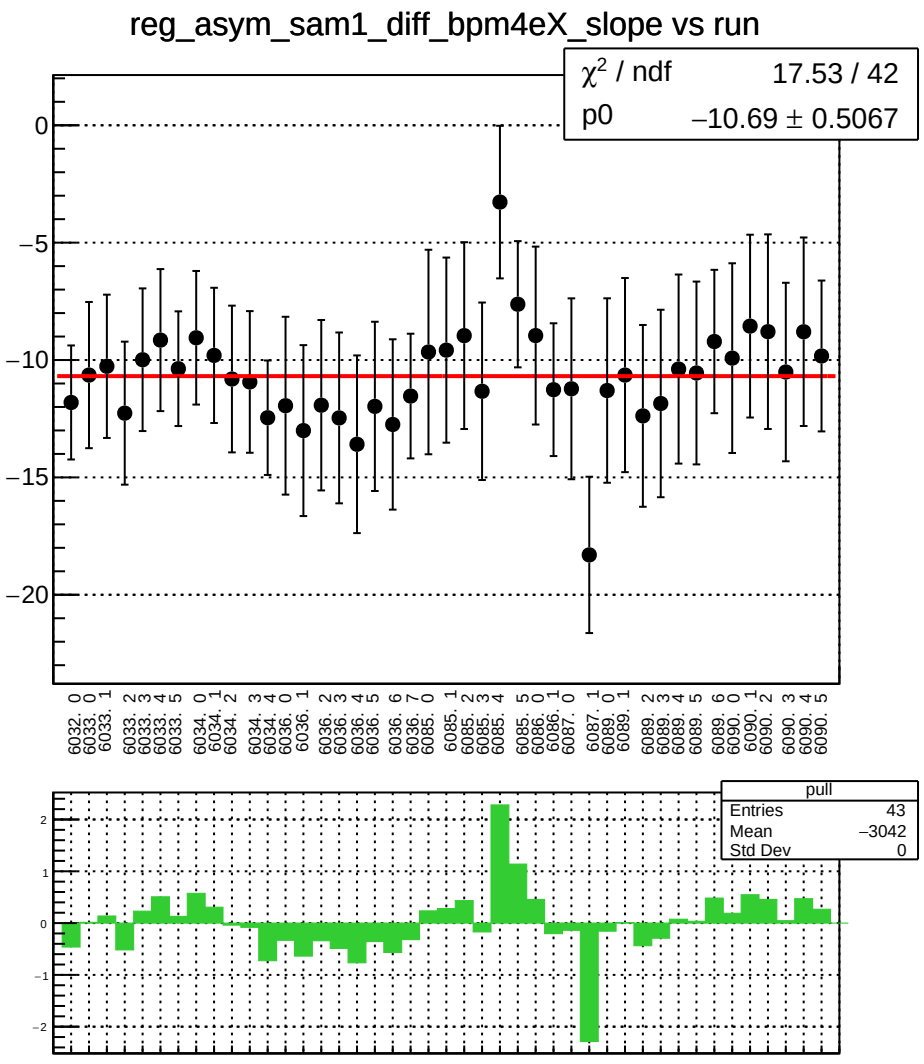

pull1D
Entries 43
Mean 0.0536
Std Dev 1.107

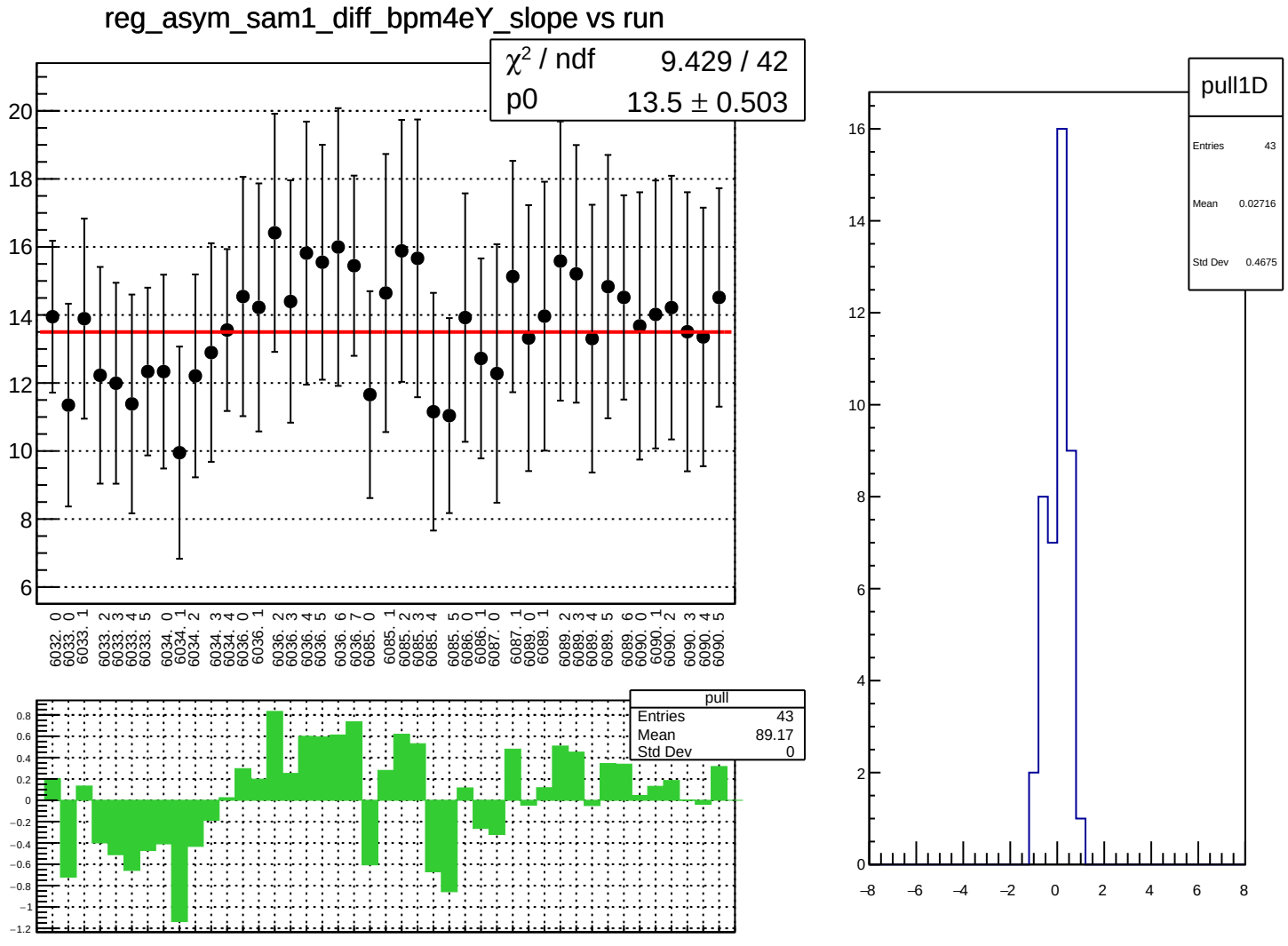

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.983e+05 / 42
p0 2.949e−11 ± 3.889e−14
0.25
0.2
0.15
0.1
0.05
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

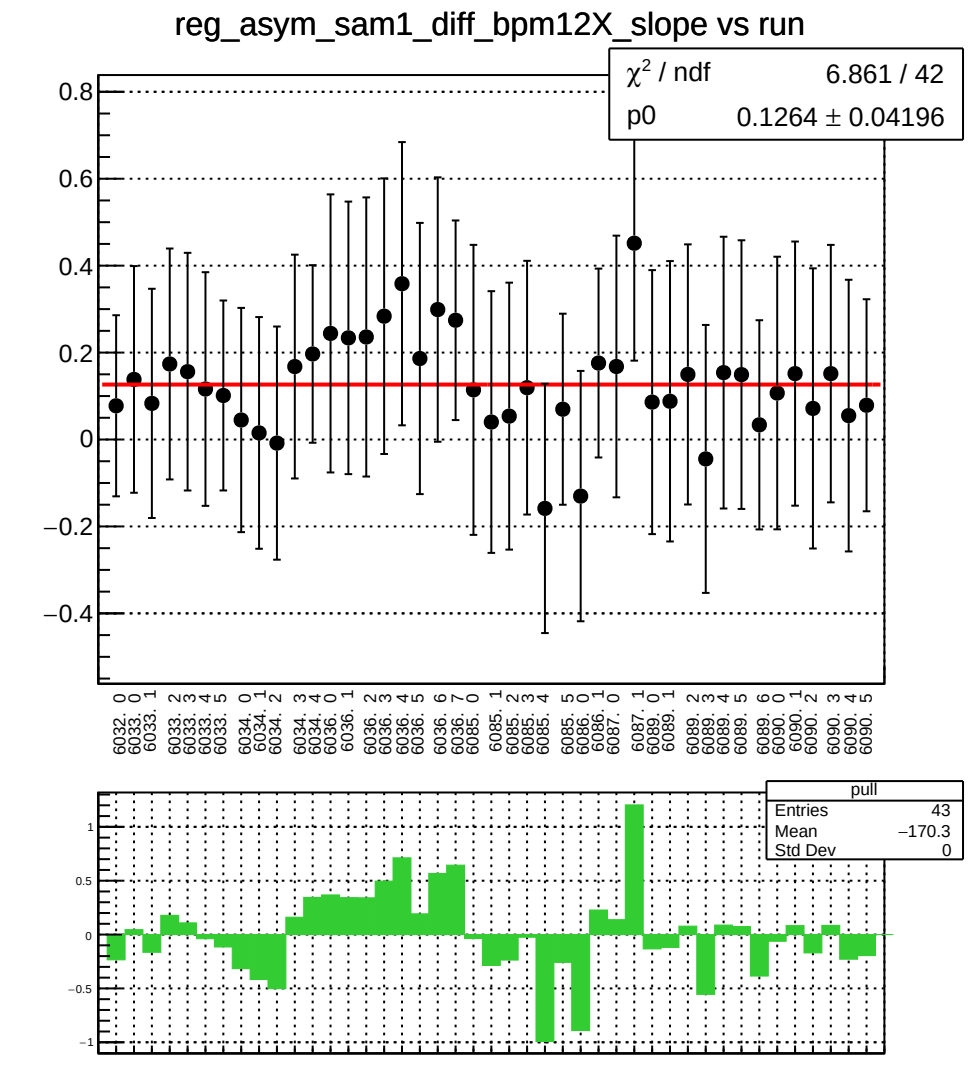

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 16.87 / 42
p0 −3.955 ± 0.4614
pull
Entries 43
Mean 34.4
Std Dev 0
pull1D
Entries 43
Mean 0.01605
Std Dev 0.6261

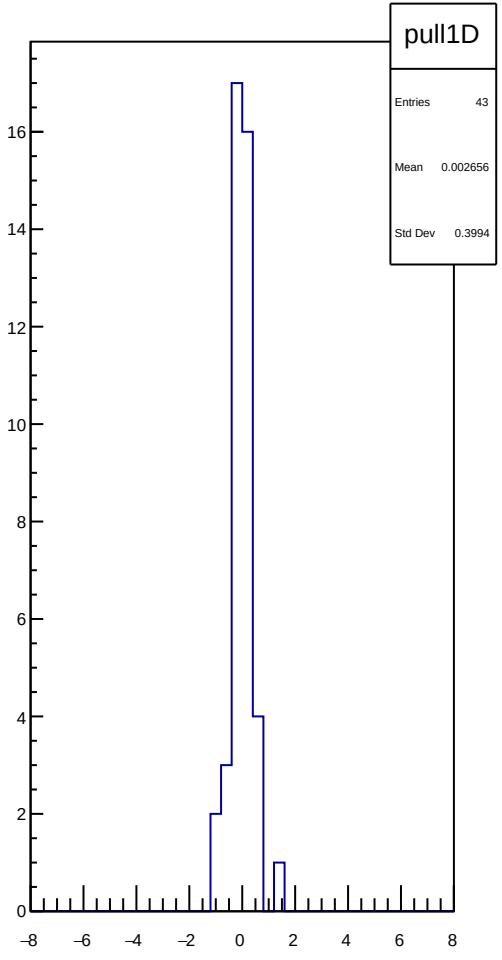

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 9.927 / 42
p0 −54.57 ± 0.4633
pull
Entries 43
Mean 94.79
Std Dev 0

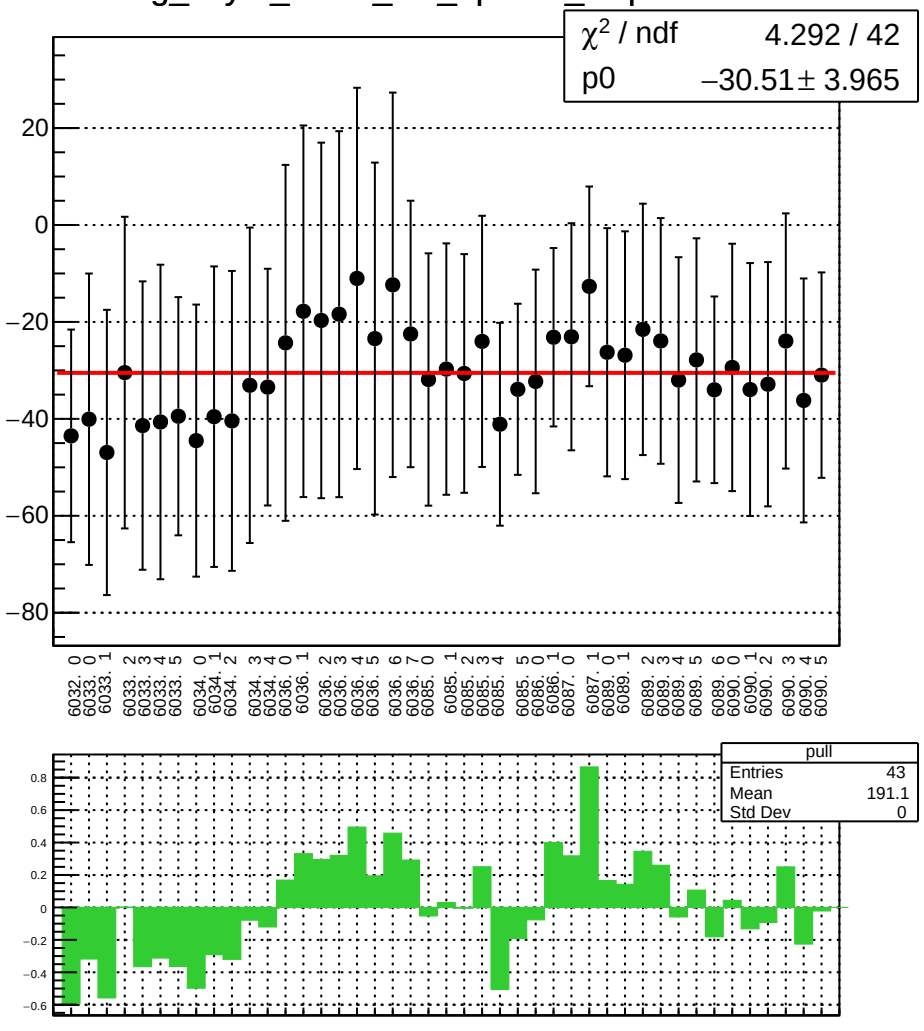

pull1D
Entries 43
Mean −0.04397
Std Dev 0.4785

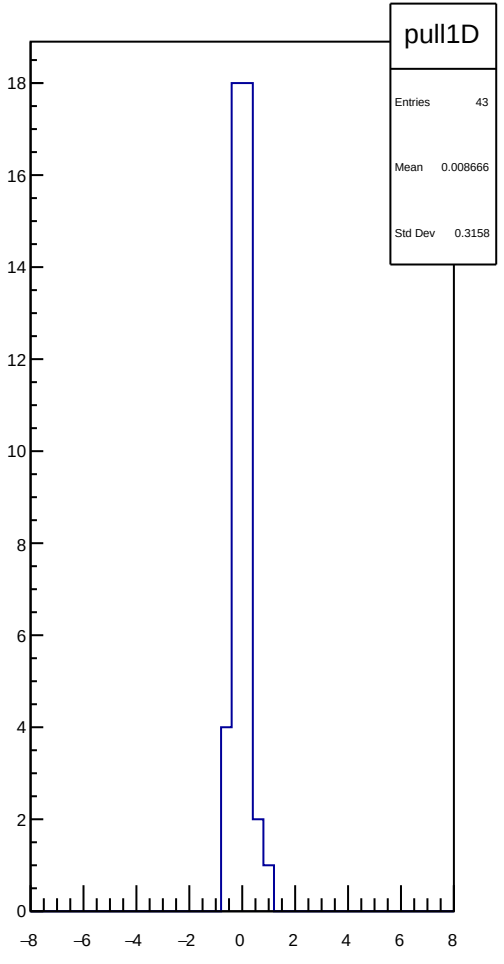

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 17.53 / 42
p0 −10.69 ± 0.5067
0
−5
−10
−15
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −3042
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0003672
Std Dev 0.6386
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

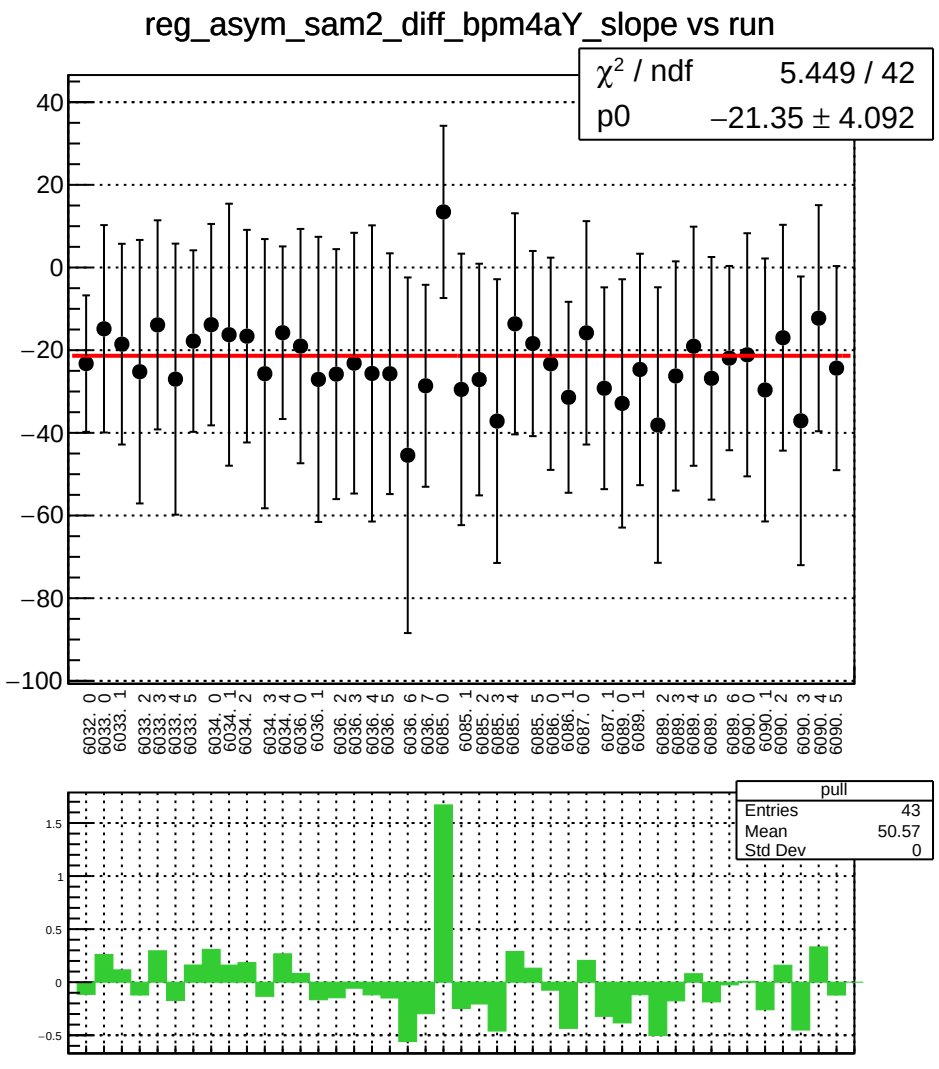

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 9.429 / 42
p0 13.5 ± 0.503
pull
Entries 43
Mean 89.17
Std Dev 0
pull1D
Entries 43
Mean 0.02716
Std Dev 0.4675

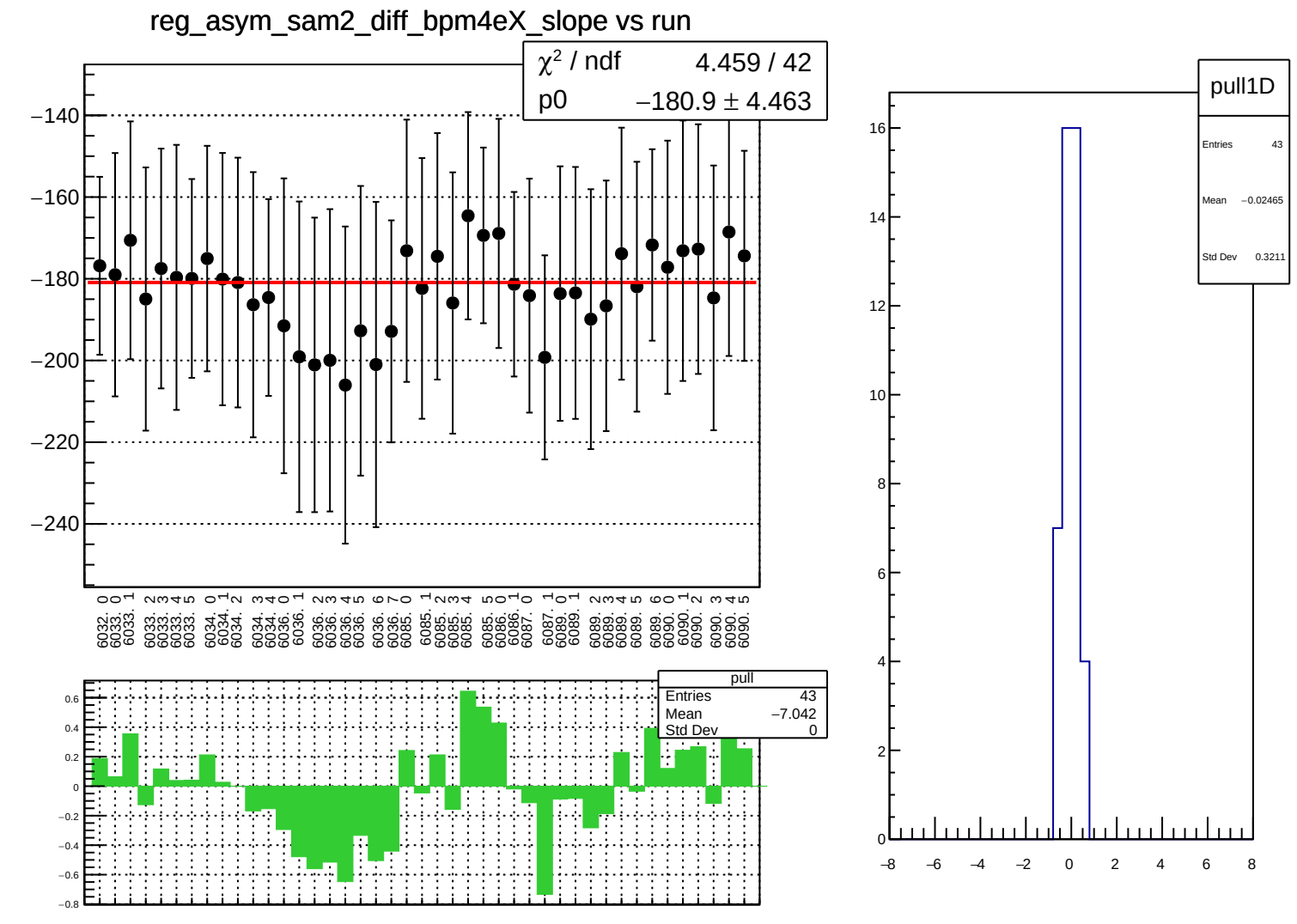

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 6.861 / 42
p0 0.1264 ± 0.04196
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −170.3
Std Dev 0
1
0.5
0
−0.5
−1

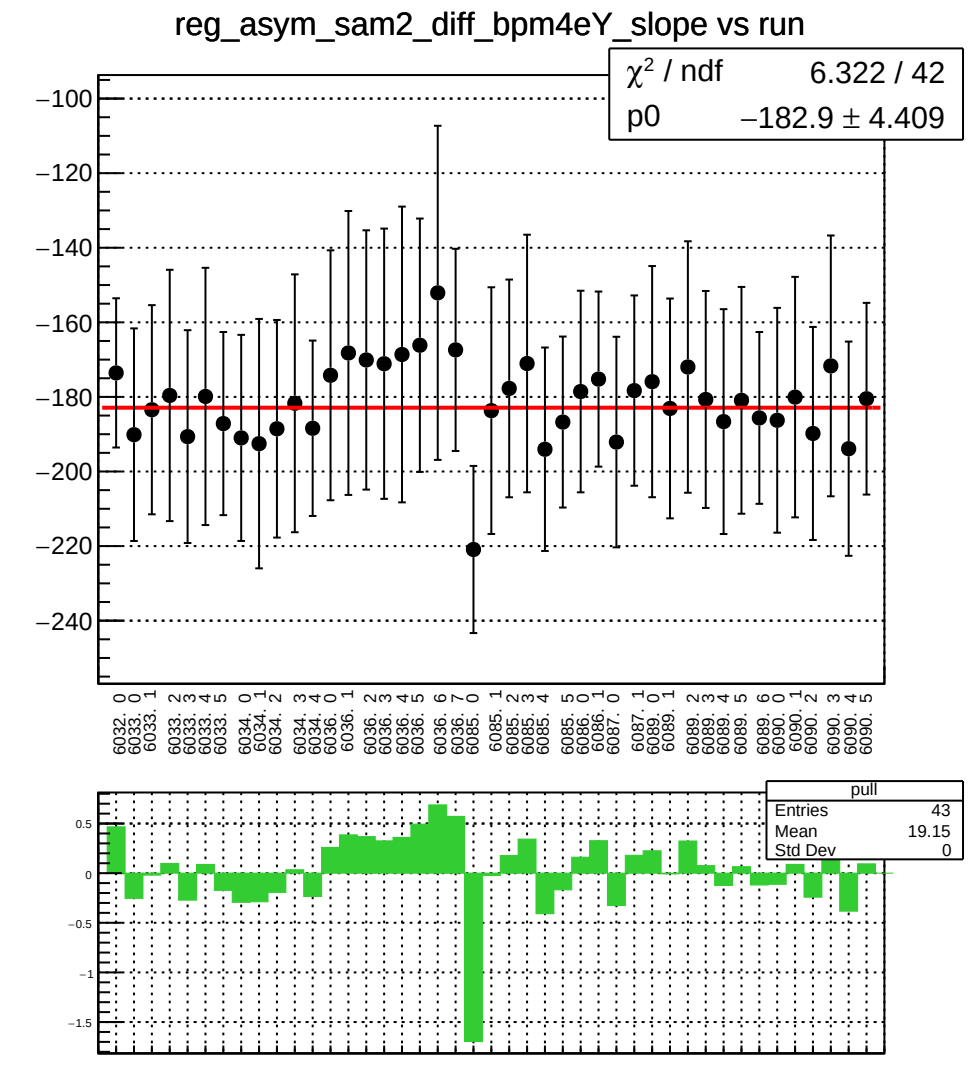

pull1D
Entries 43
Mean 0.002656
Std Dev 0.3994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

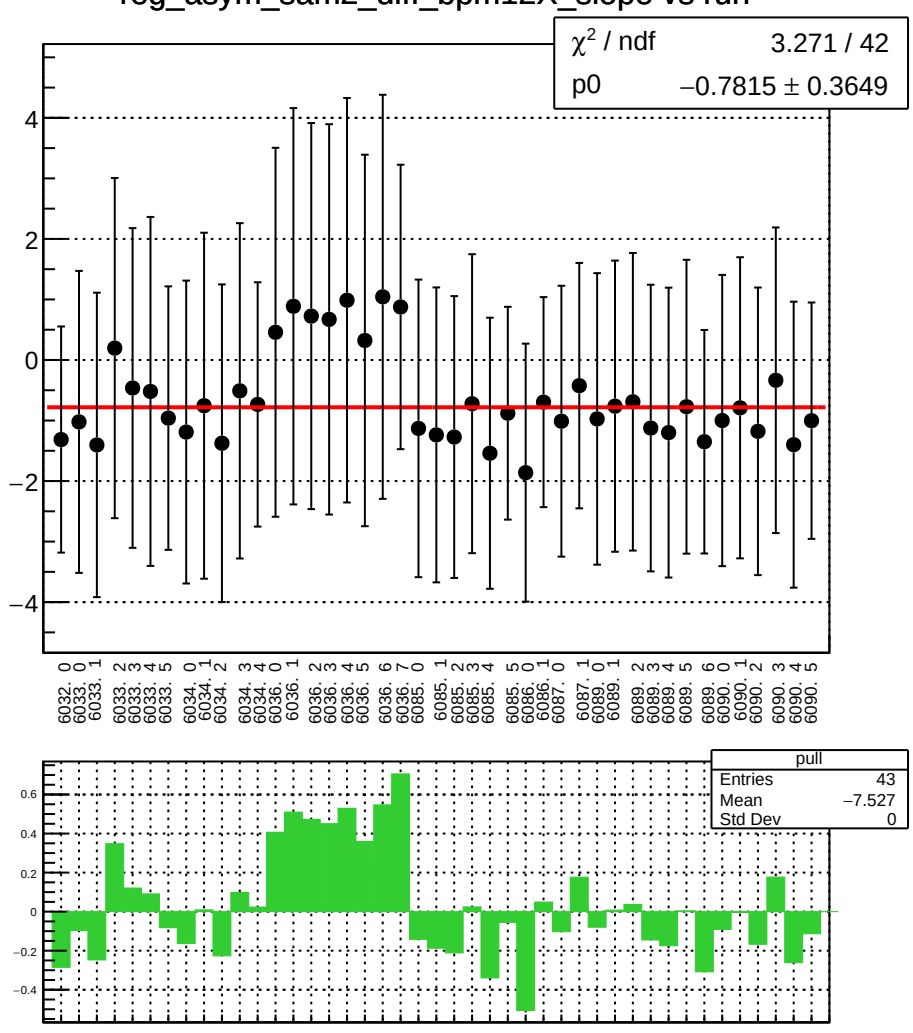

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 4.292 / 42
p0 −30.51 ± 3.965
pull
Entries 43
Mean 191.1
Std Dev 0

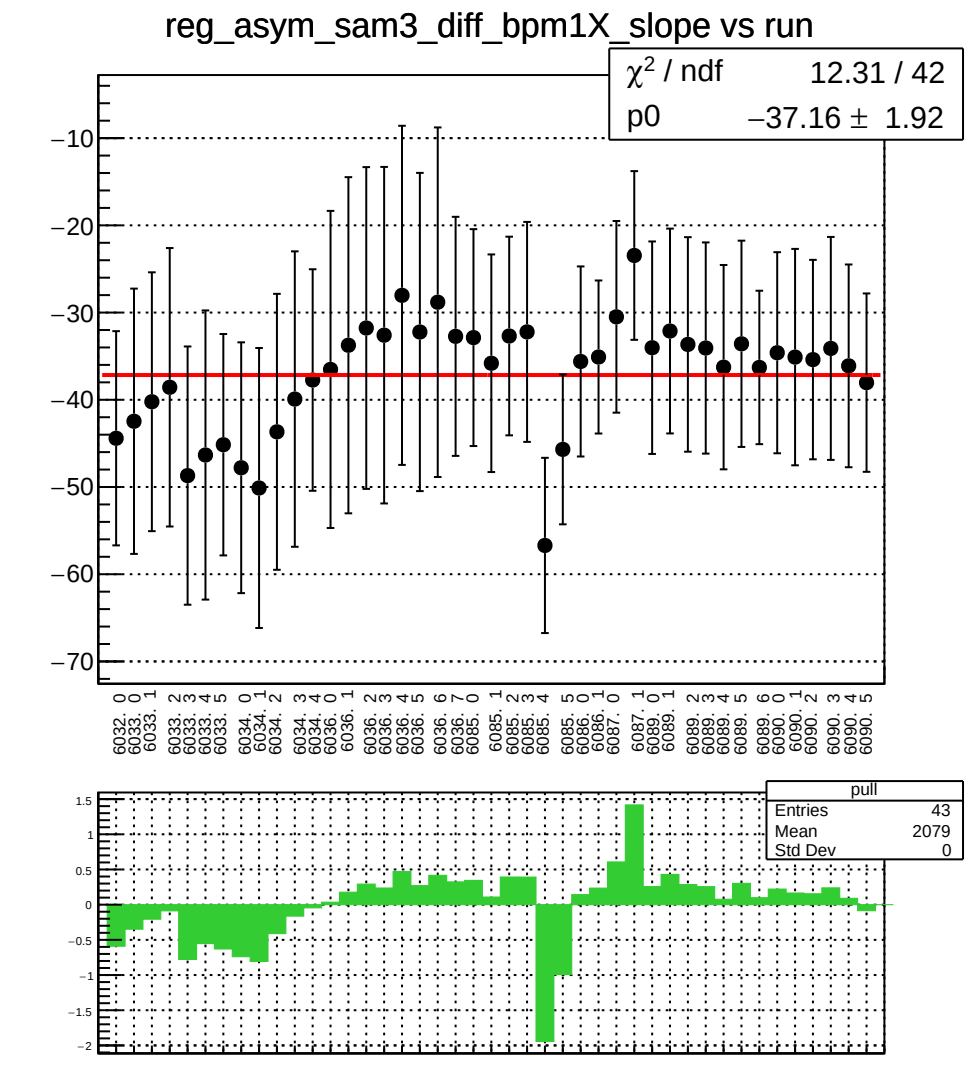

pull1D
Entries 43
Mean 0.008666
Std Dev 0.3158

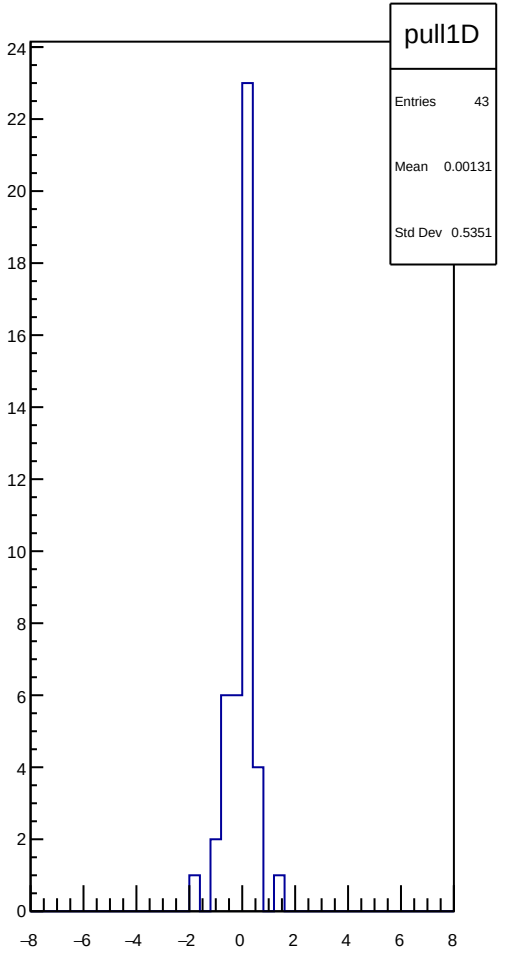

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 5.449 / 42
p0 −21.35 ± 4.092
pull
Entries 43
Mean 50.57
Std Dev 0
pull1D
Entries 43
Mean −0.03004
Std Dev 0.3547

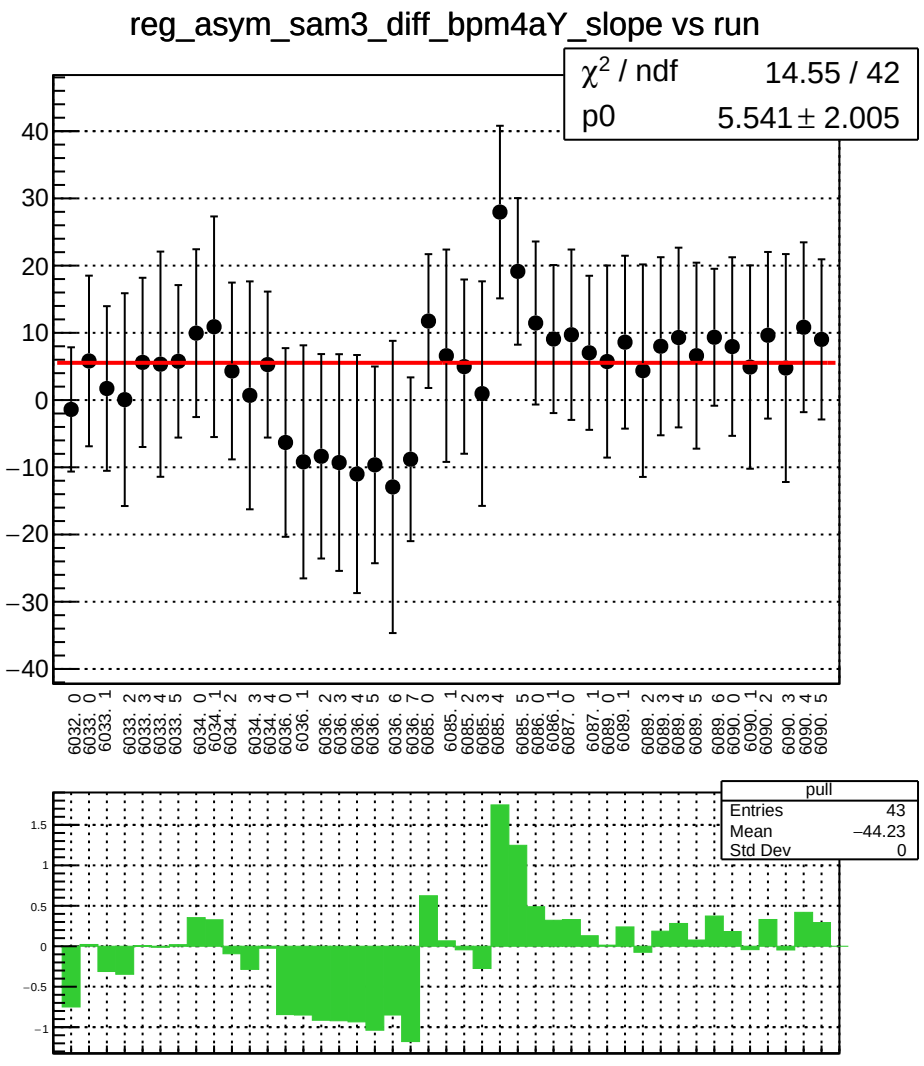

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.459 / 42
p0 −180.9 ± 4.463
−140
−160
−180
−200
−220
−240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −7.042
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.02465
Std Dev 0.3211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

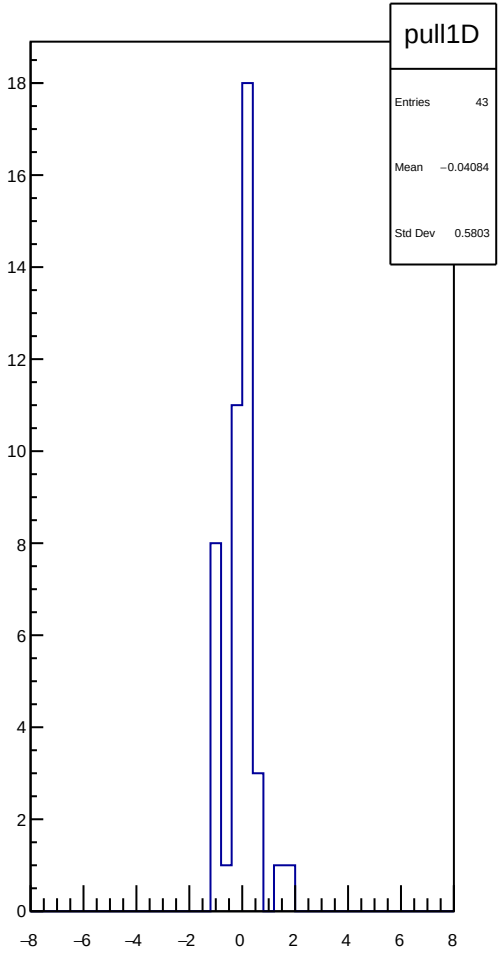

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 6.322 / 42
p0 −182.9 ± 4.409
−100
−120
−140
−160
−180
−200
−220
−240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 19.15
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02744
Std Dev 0.3825
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

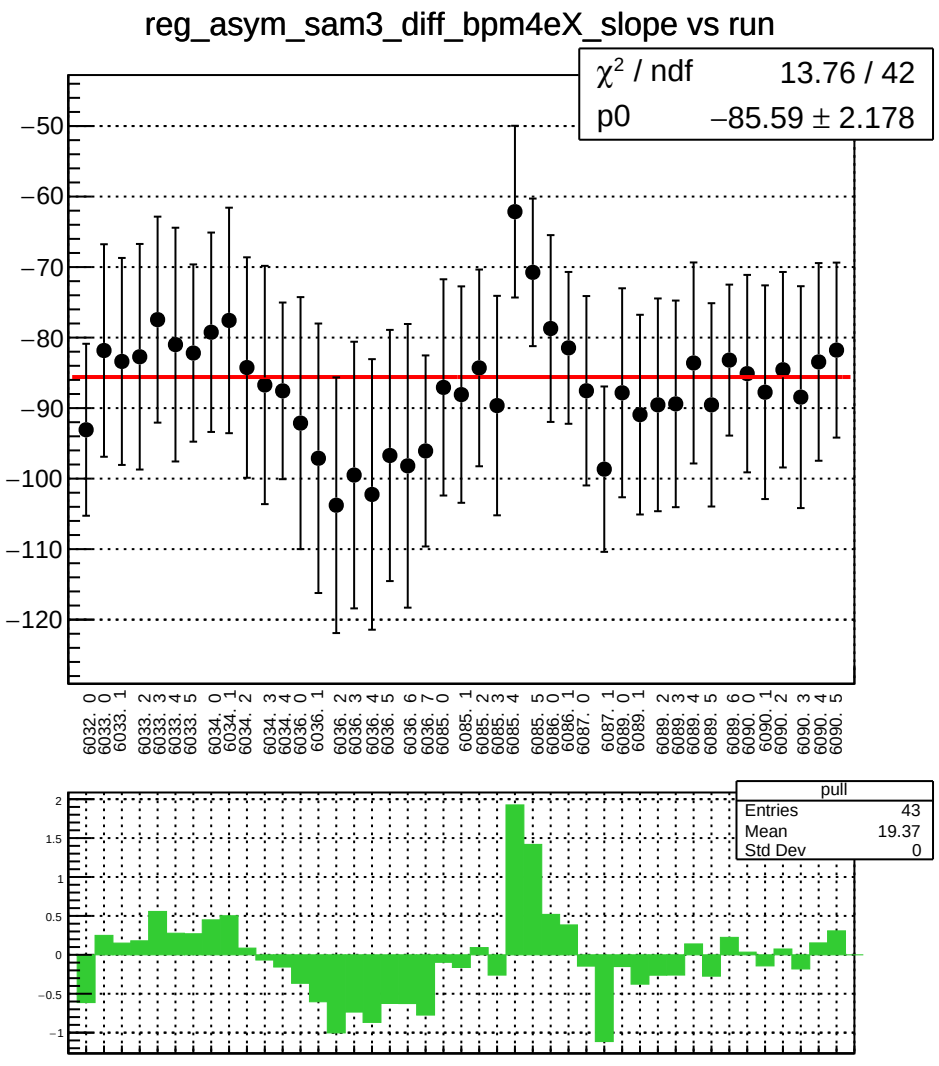

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 3.271 / 42
p0 −0.7815 ± 0.3649
pull
Entries 43
Mean −7.527
Std Dev 0
pull1D
Entries 43
Mean 0.02693
Std Dev 0.2745

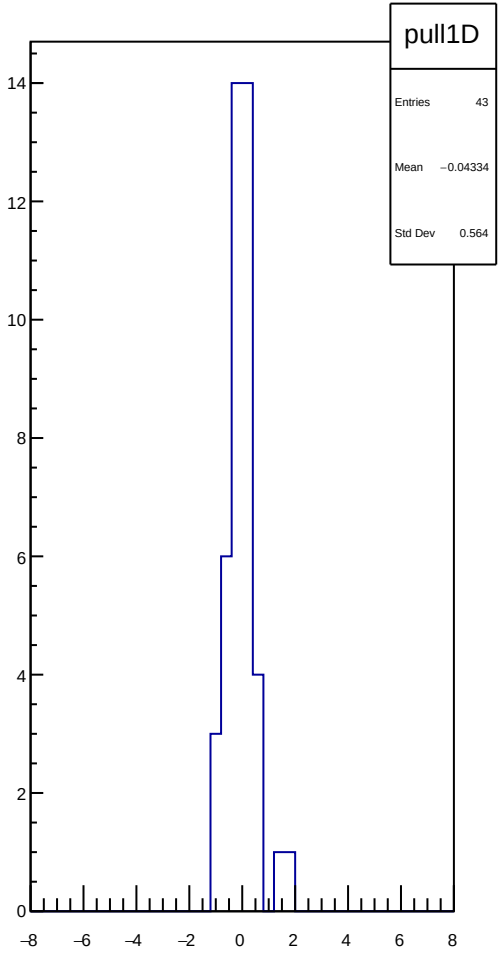

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 12.31 / 42
p0 −37.16 ± 1.92
pull
Entries 43
Mean 2079
Std Dev 0

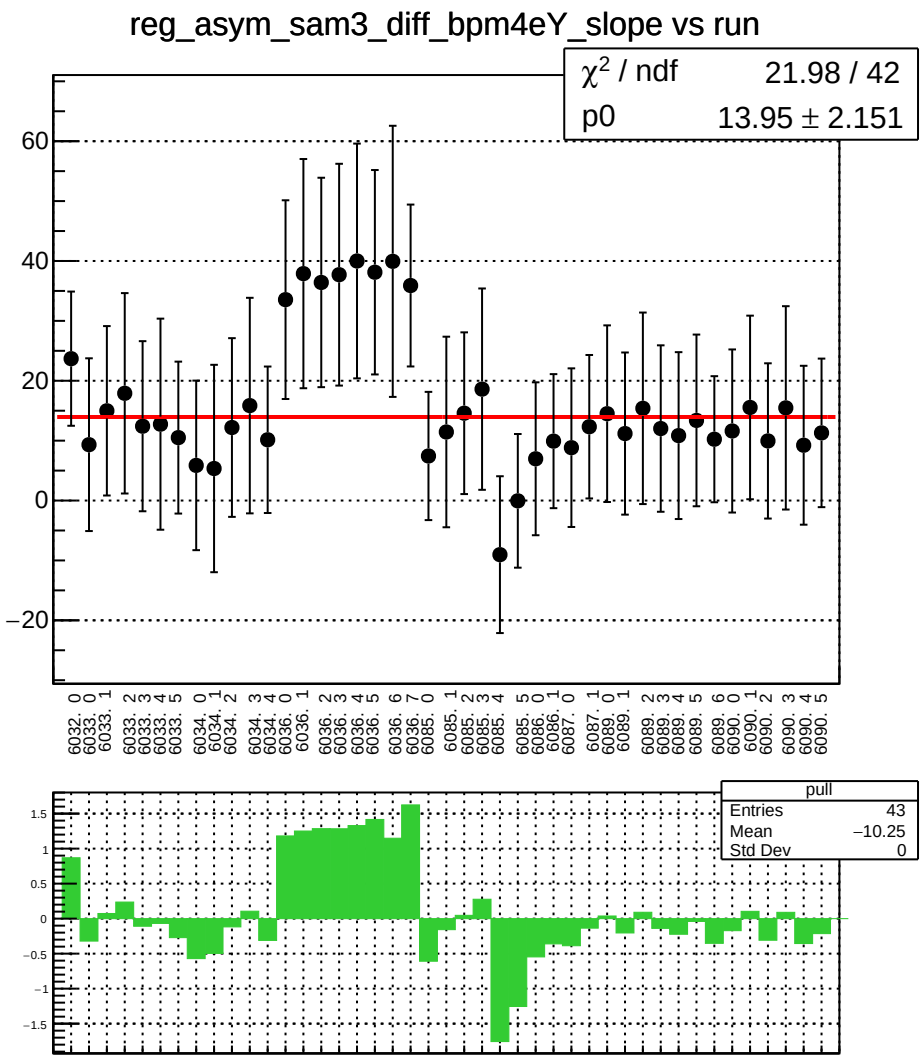

pull1D
Entries 43
Mean 0.00131
Std Dev 0.5351

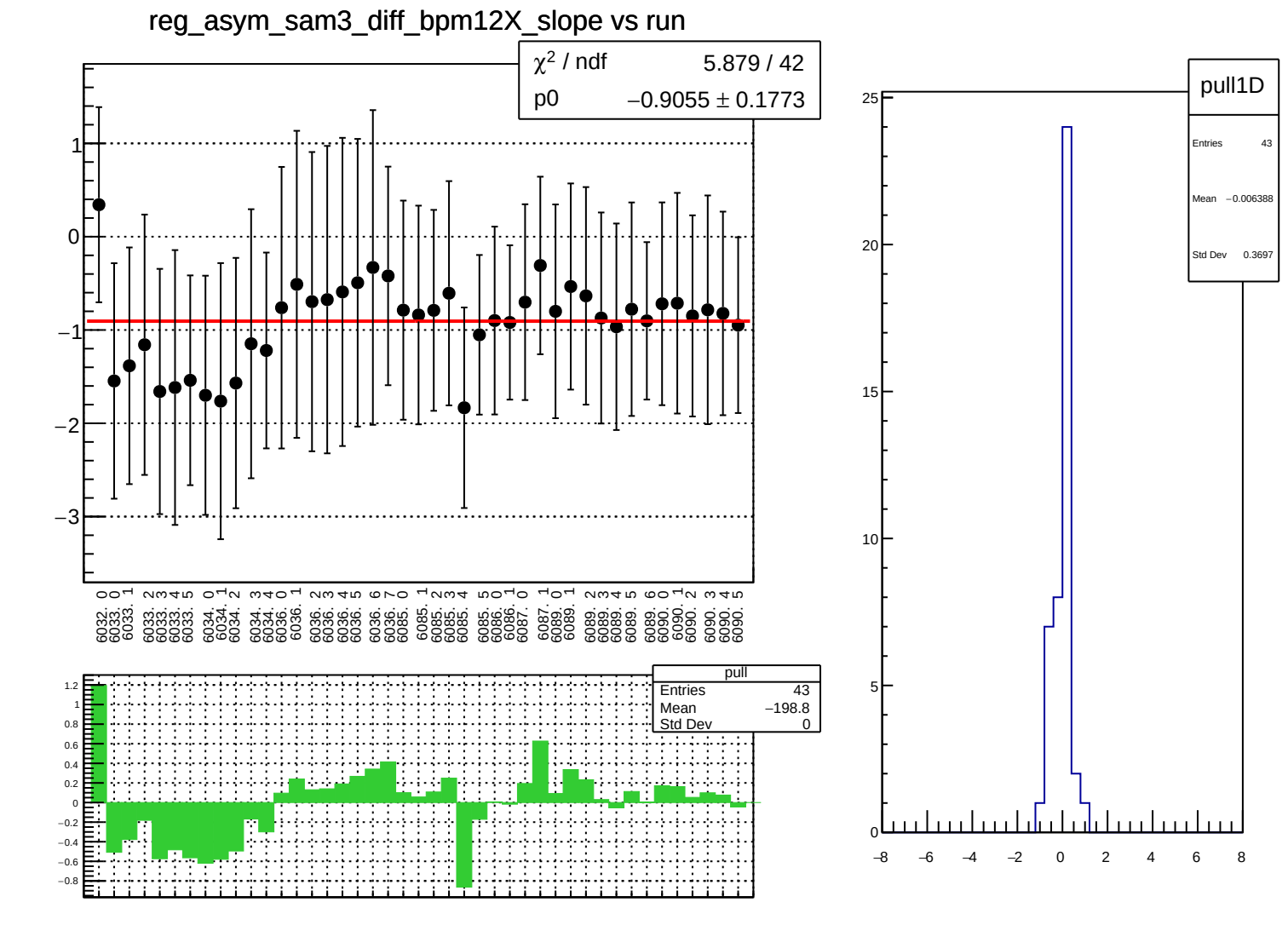

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 14.55 / 42
p0 5.541 ± 2.005
pull
Entries 43
Mean −44.23
Std Dev 0

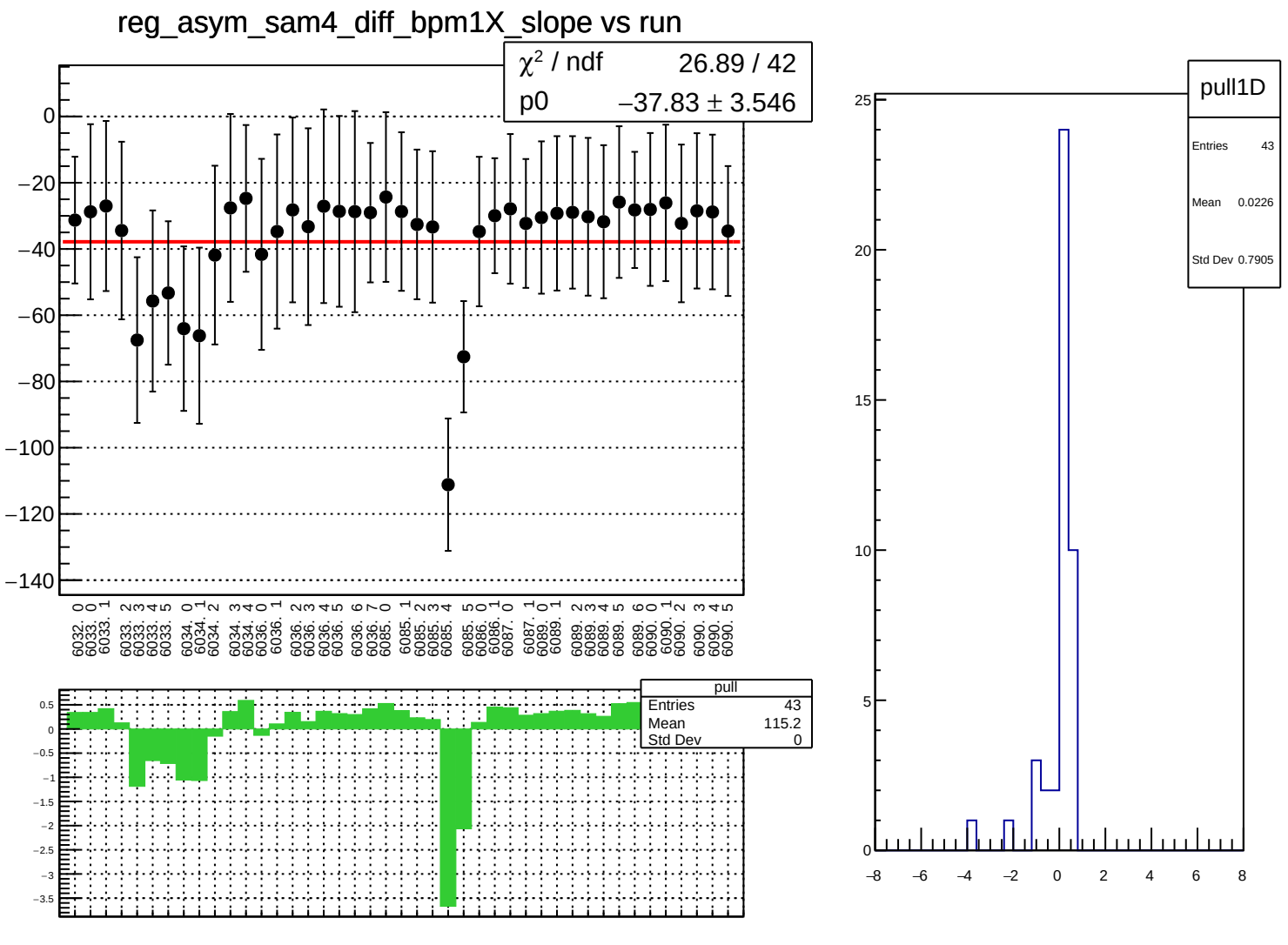

pull1D
Entries 43
Mean −0.04084
Std Dev 0.5803

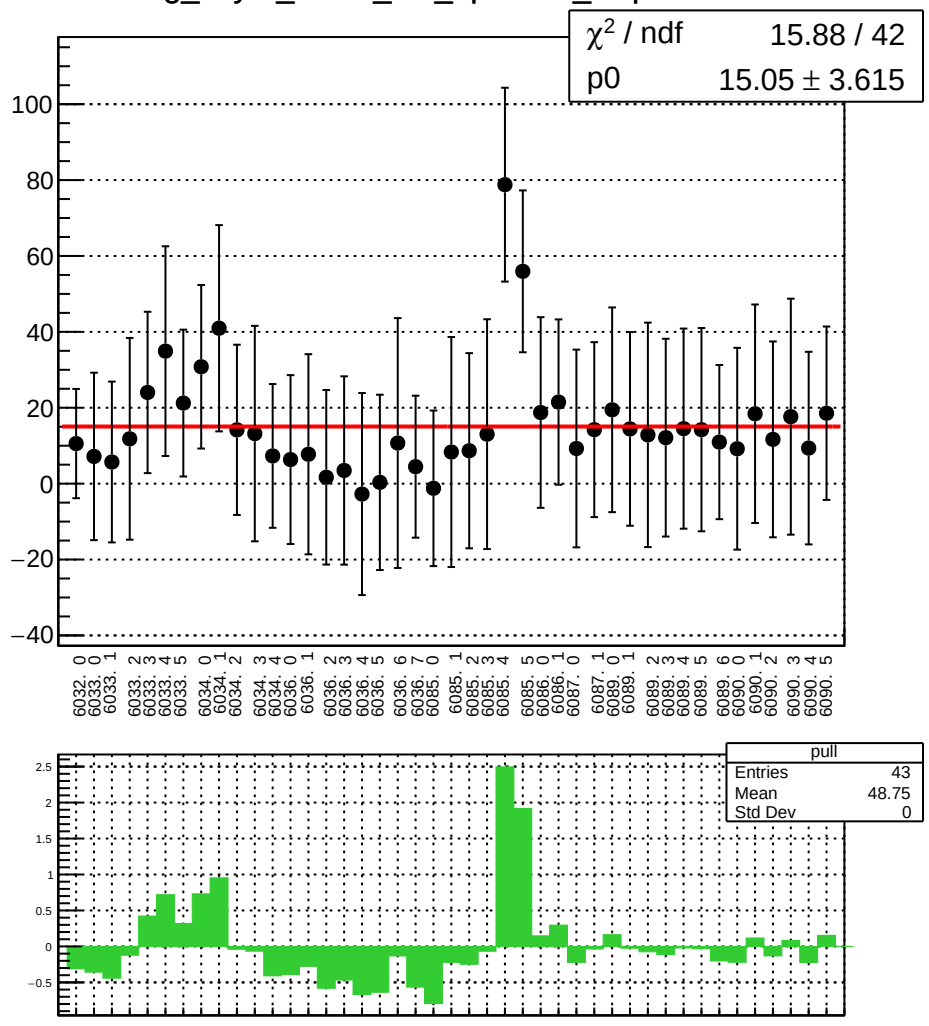

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 13.76 / 42
p0 −85.59 ± 2.178
pull
Entries 43
Mean 19.37
Std Dev 0

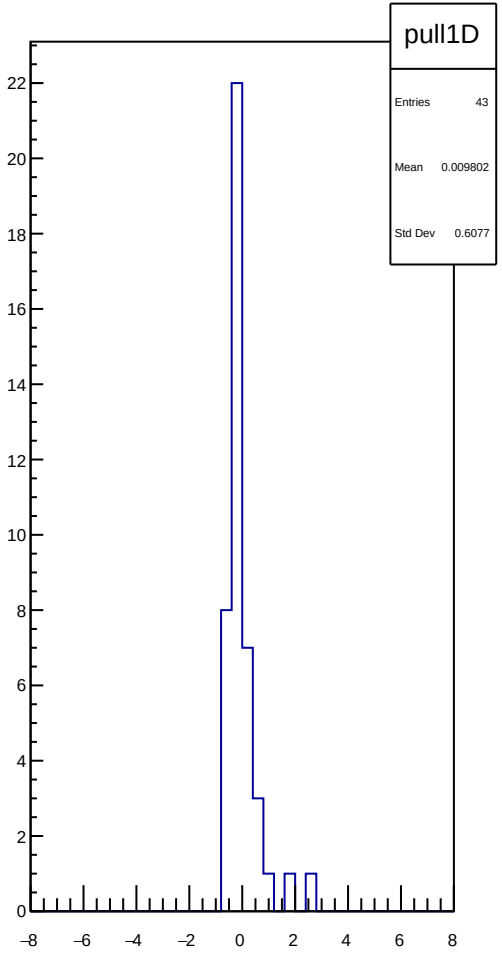

pull1D
Entries 43
Mean −0.04334
Std Dev 0.564

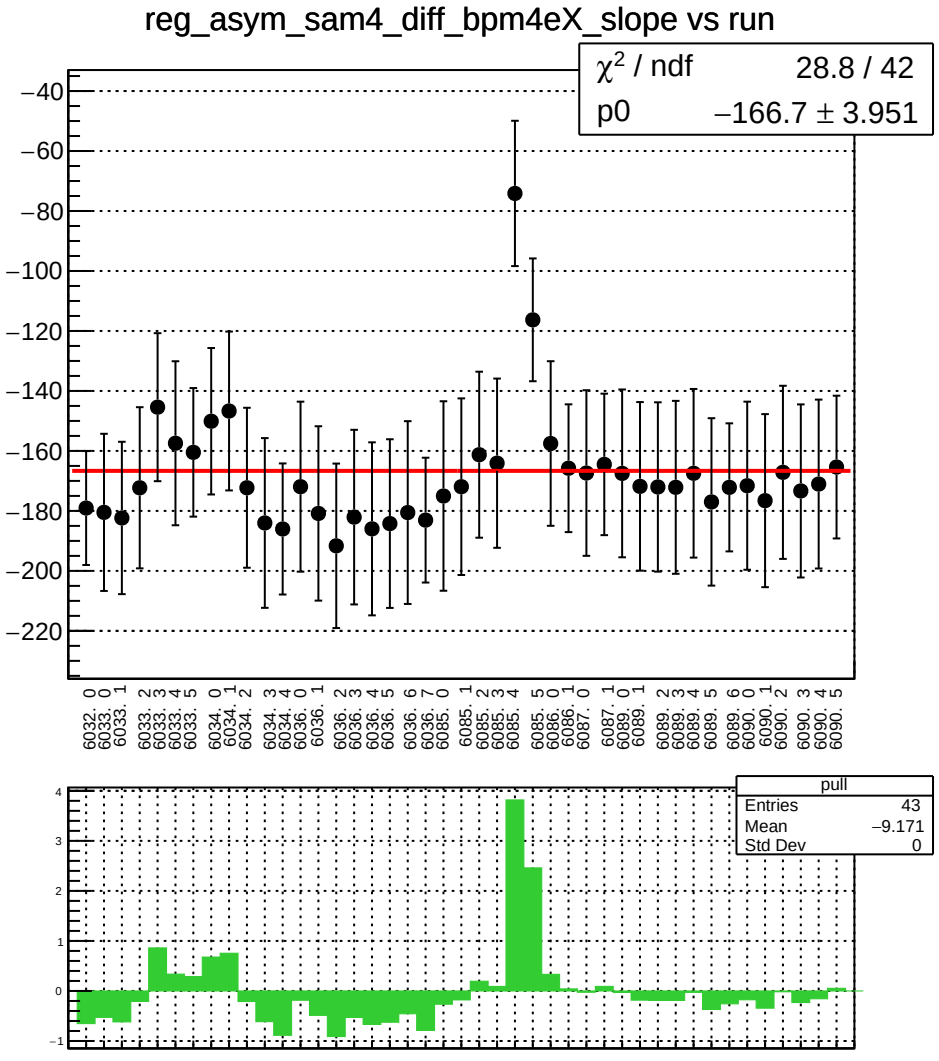

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 21.98 / 42
p0 13.95 ± 2.151
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −10.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06908
Std Dev 0.7116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

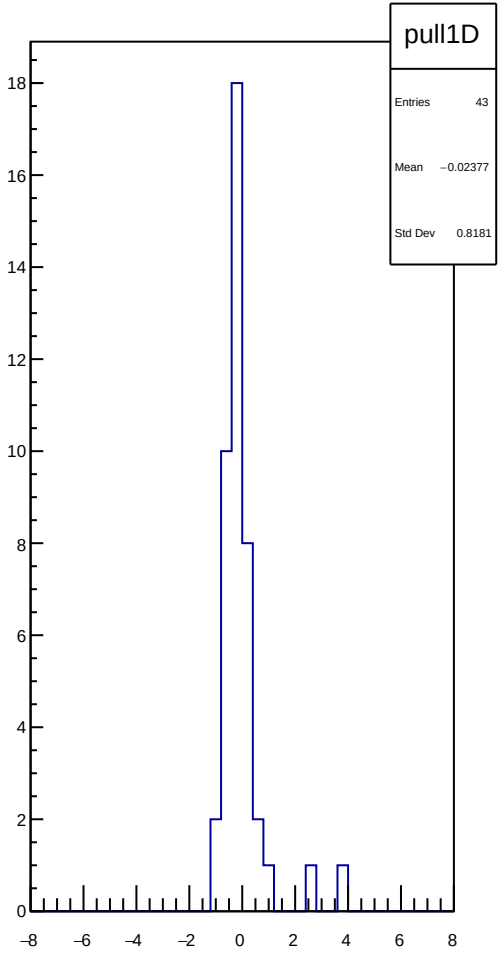

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 5.879 / 42
p0 −0.9055 ± 0.1773
pull
Entries 43
Mean −198.8
Std Dev 0
pull1D
Entries 43
Mean −0.006388
Std Dev 0.3697

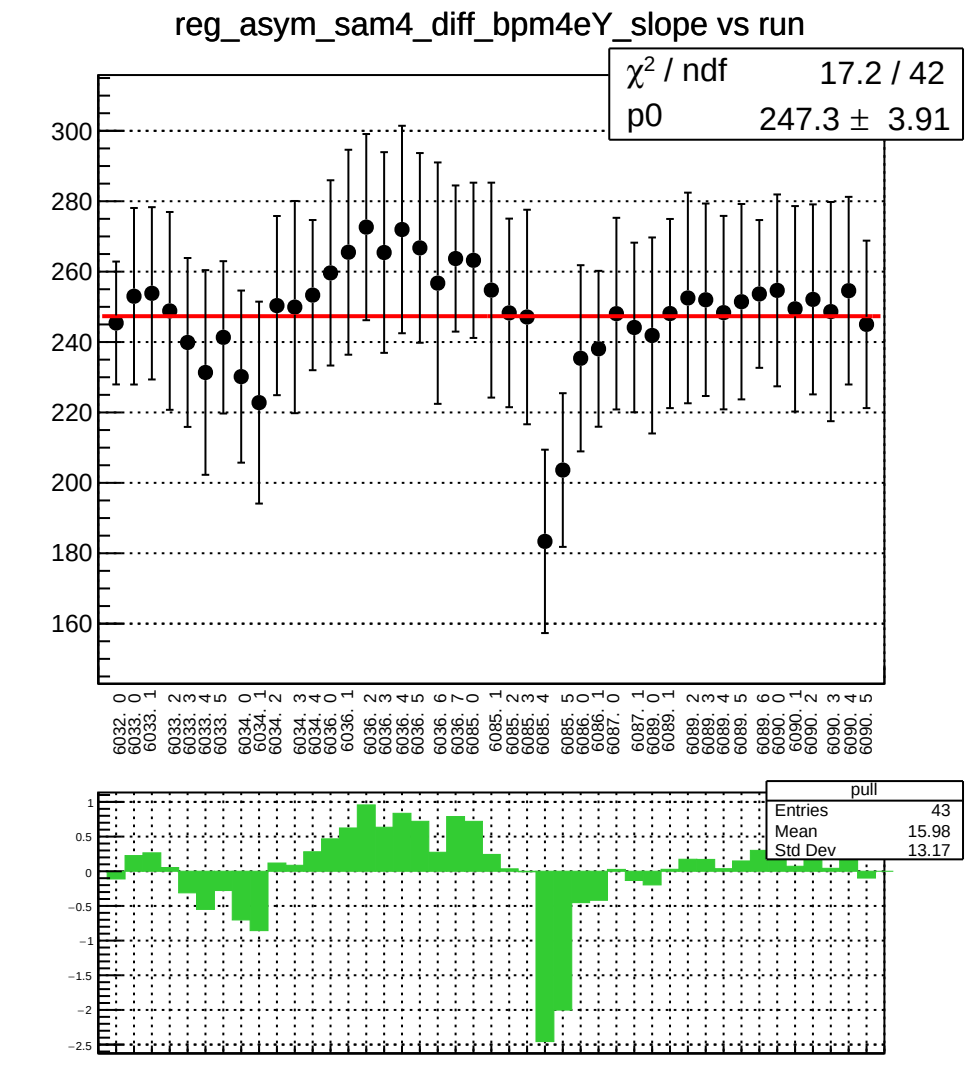

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 26.89 / 42
p0 −37.83 ± 3.546
0
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 115.2
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 43
Mean 0.0226
Std Dev 0.7905
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

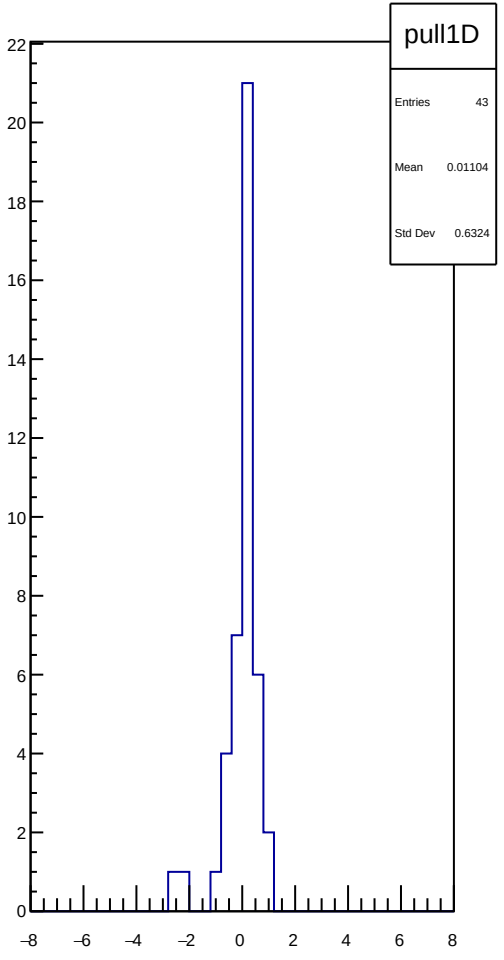

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 15.88 / 42
p0 15.05 ± 3.615
pull
Entries 43
Mean 48.75
Std Dev 0

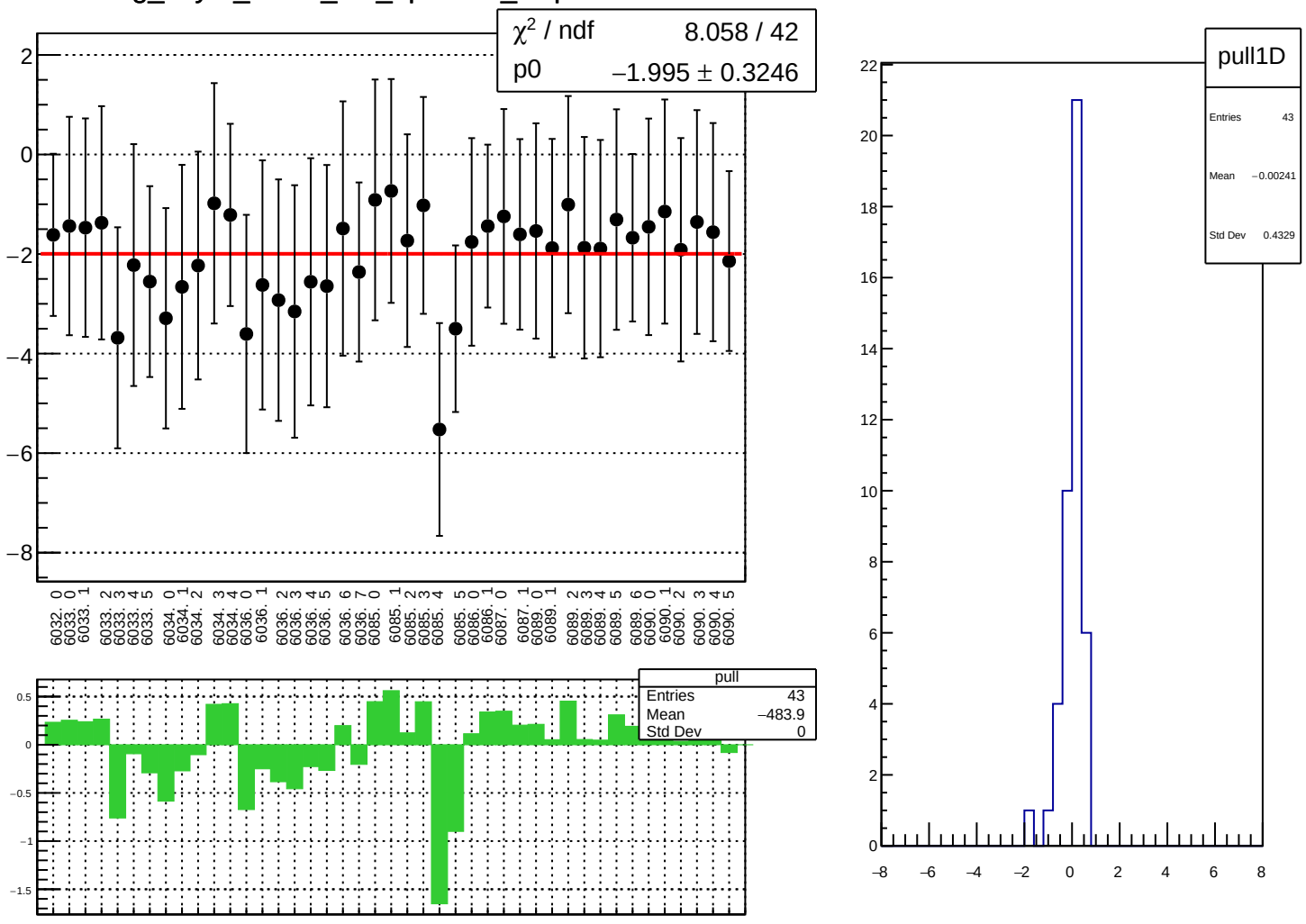

pull1D
Entries 43
Mean 0.009802
Std Dev 0.6077

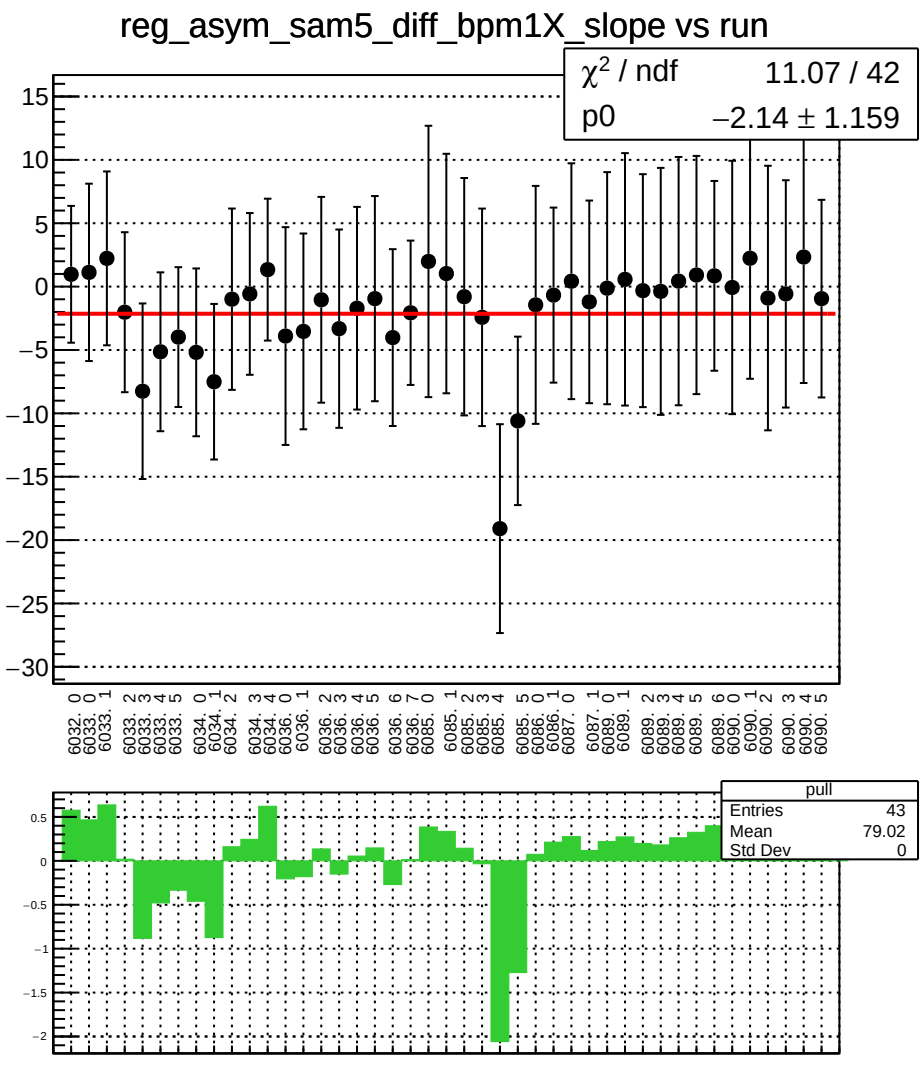

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 28.8 / 42
p0 −166.7 ± 3.951
pull
Entries 43
Mean −9.171
Std Dev 0

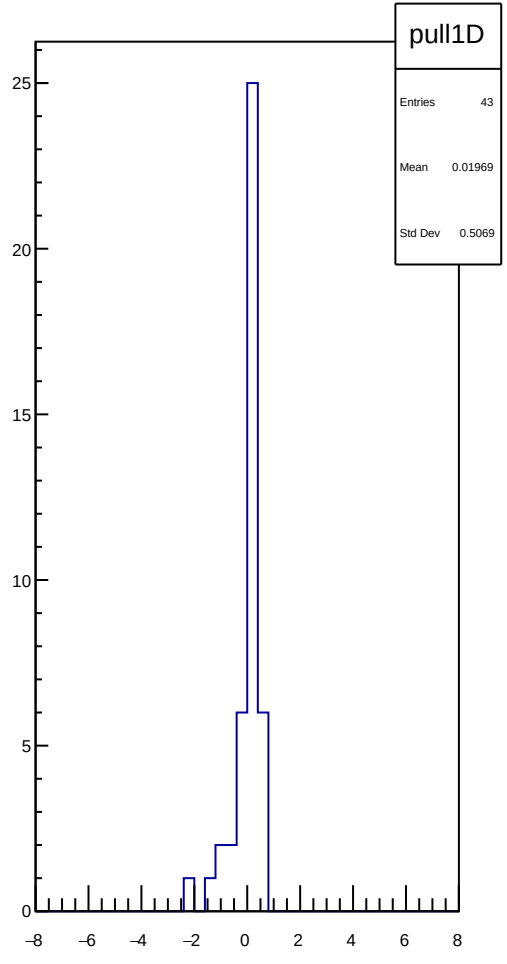

pull1D
Entries 43
Mean −0.02377
Std Dev 0.8181

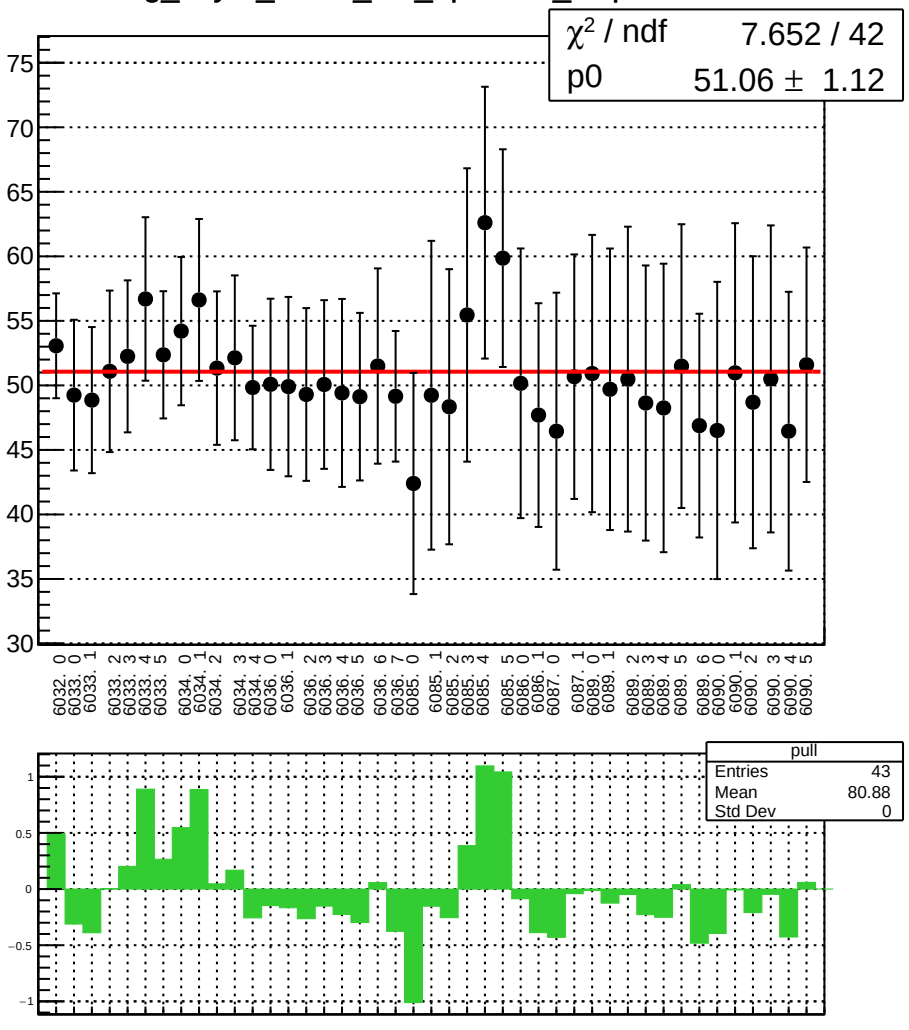

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 17.2 / 42
p0 247.3 ± 3.91
pull
Entries 43
Mean 15.98
Std Dev 13.17

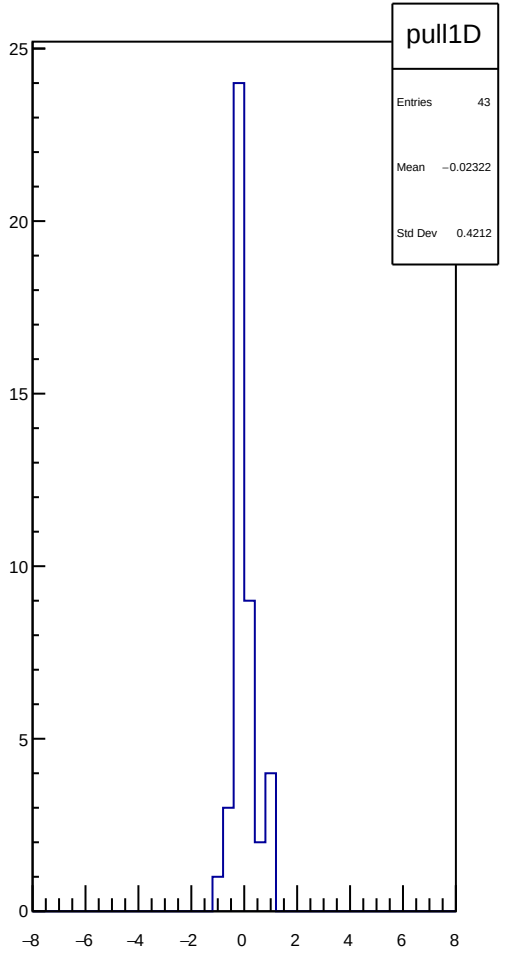

pull1D
Entries 43
Mean 0.01104
Std Dev 0.6324

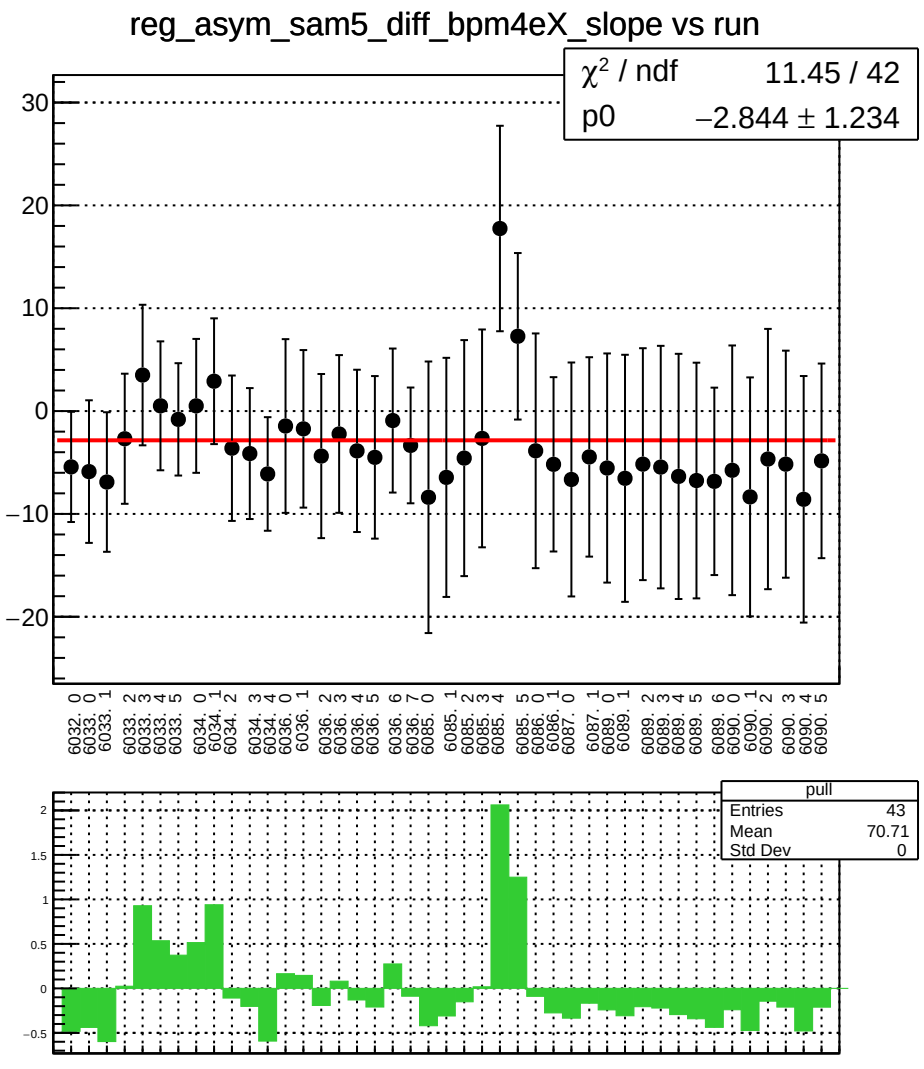

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 8.058 / 42
p0 −1.995 ± 0.3246
pull
Entries 43
Mean −483.9
Std Dev 0
pull1D
Entries 43
Mean −0.00241
Std Dev 0.4329

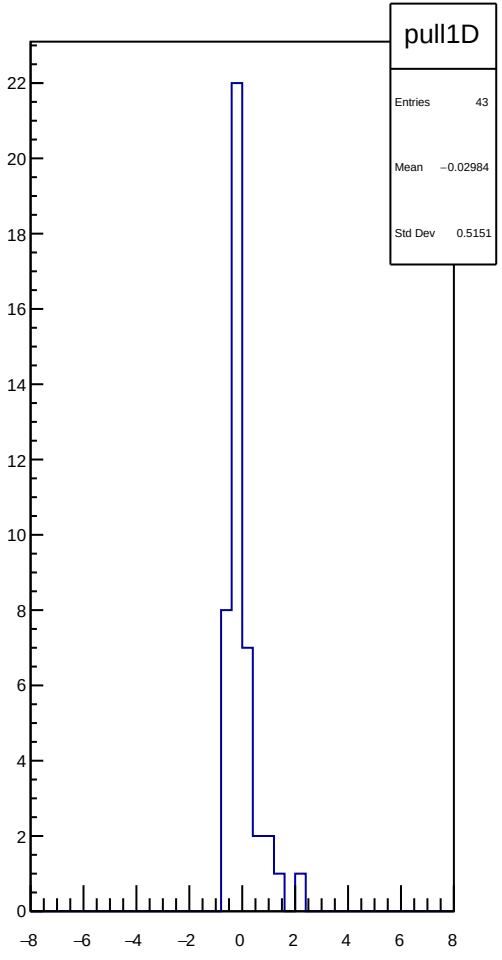

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 11.07 / 42
p0 −2.14 ± 1.159
pull
Entries 43
Mean 79.02
Std Dev 0

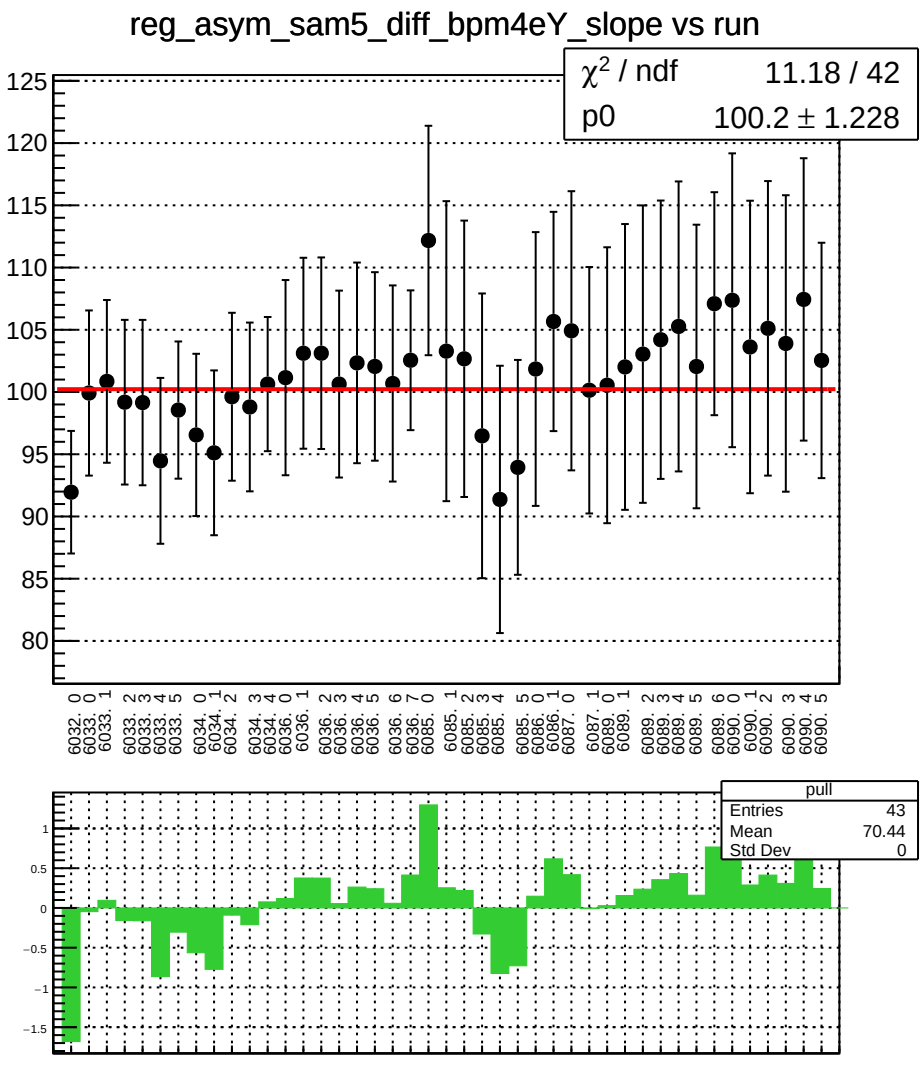

pull1D
Entries 43
Mean 0.01969
Std Dev 0.5069

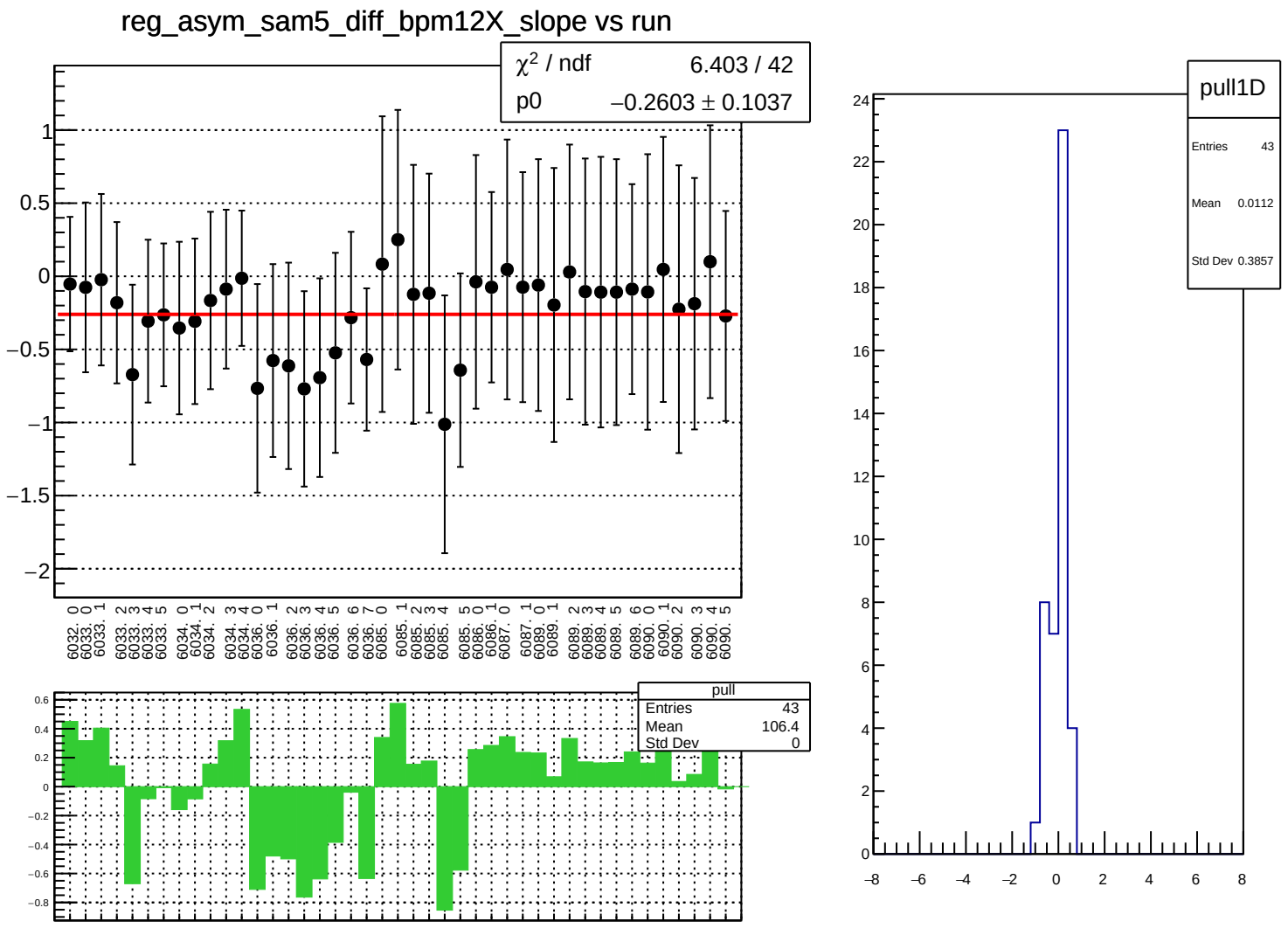

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.652 / 42
p0 51.06 ± 1.12
pull
Entries 43
Mean 80.88
Std Dev 0

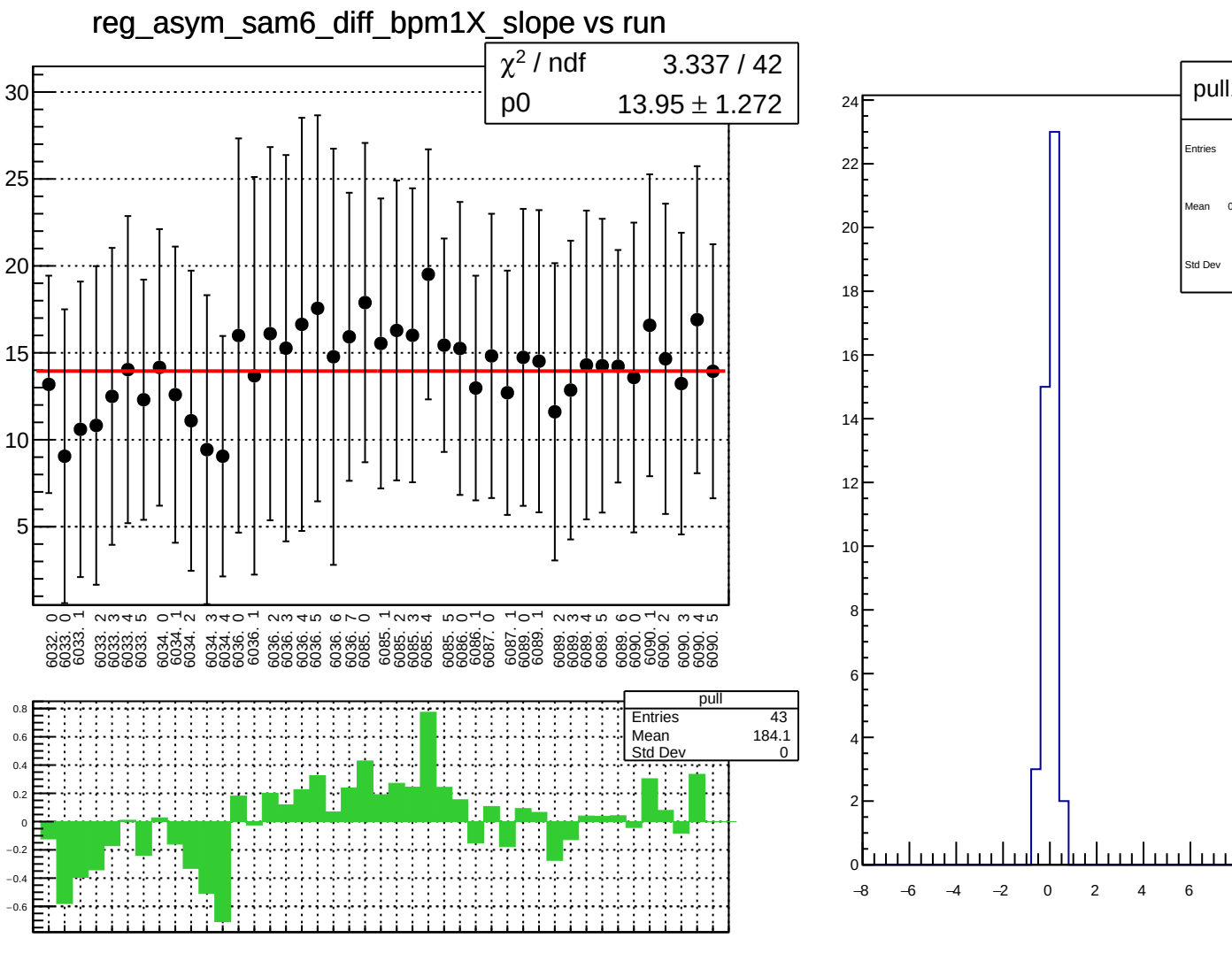

pull1D
Entries 43
Mean −0.02322
Std Dev 0.4212

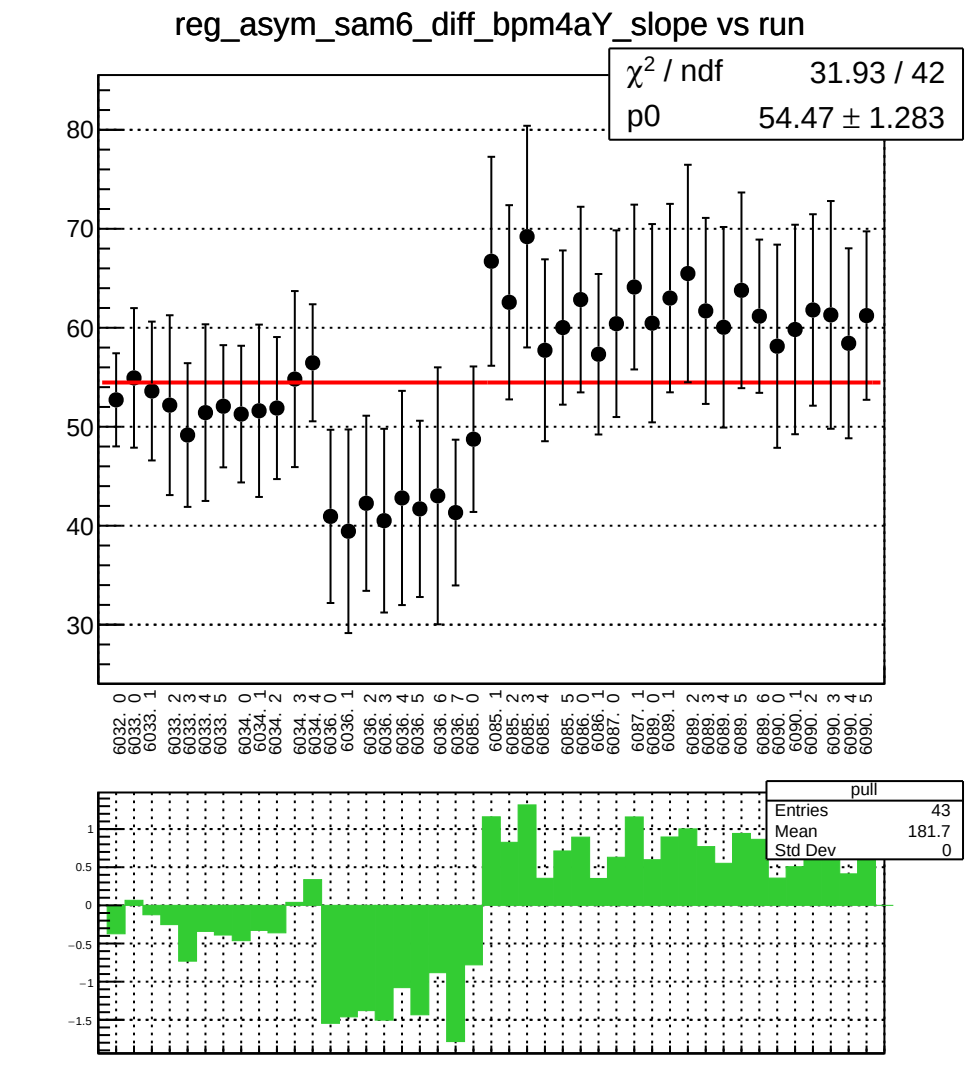

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 11.45 / 42
p0 −2.844 ± 1.234
pull
Entries 43
Mean 70.71
Std Dev 0

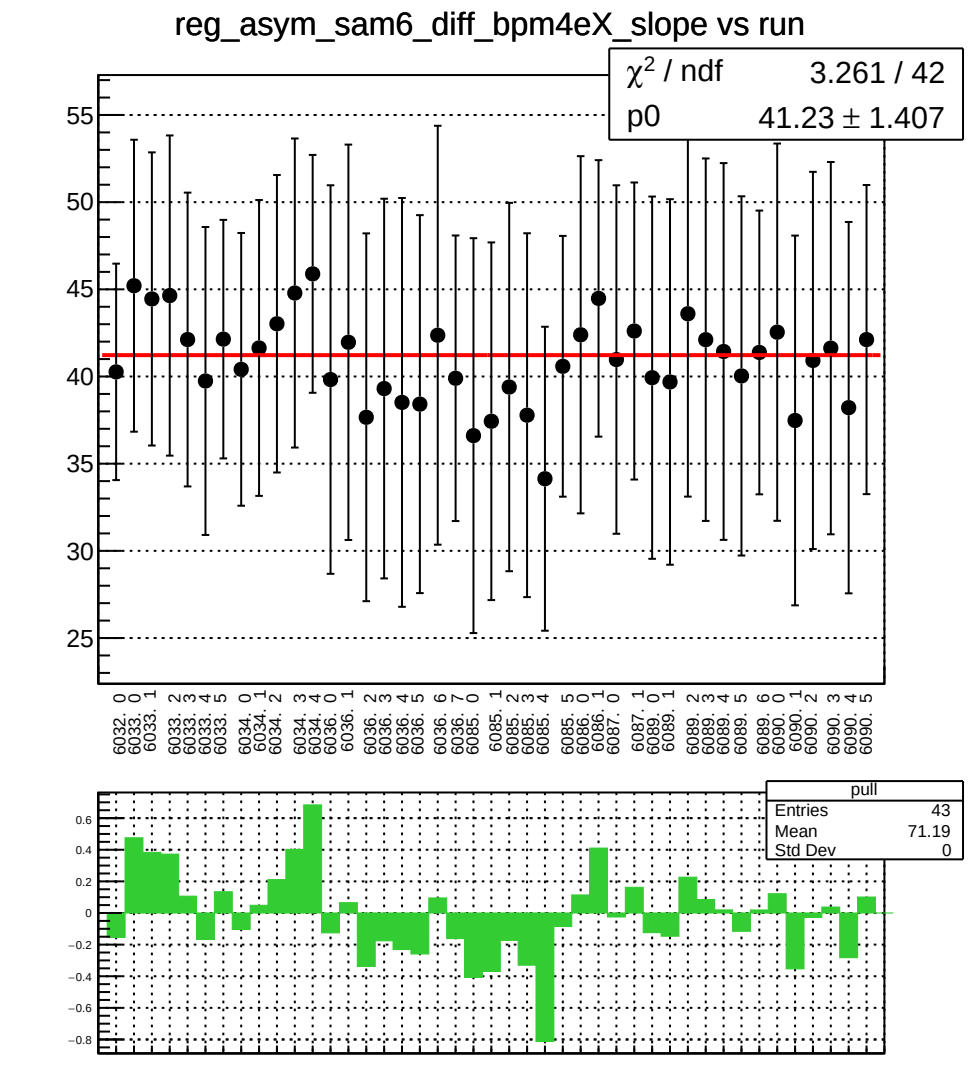

pull1D
Entries 43
Mean −0.02984
Std Dev 0.5151

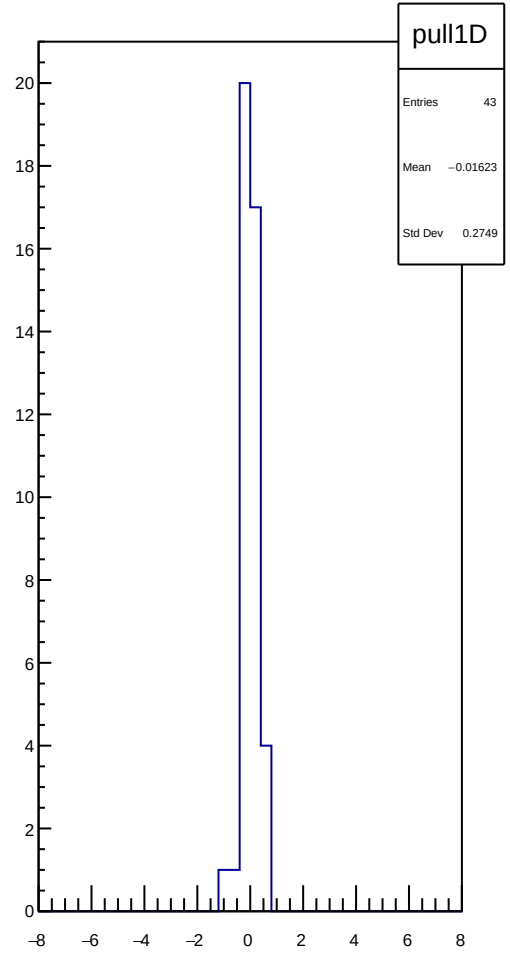

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 11.18 / 42
p0 100.2 ± 1.228
125
120
115
110
105
100
95
90
85
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 70.44
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06777
Std Dev 0.5053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

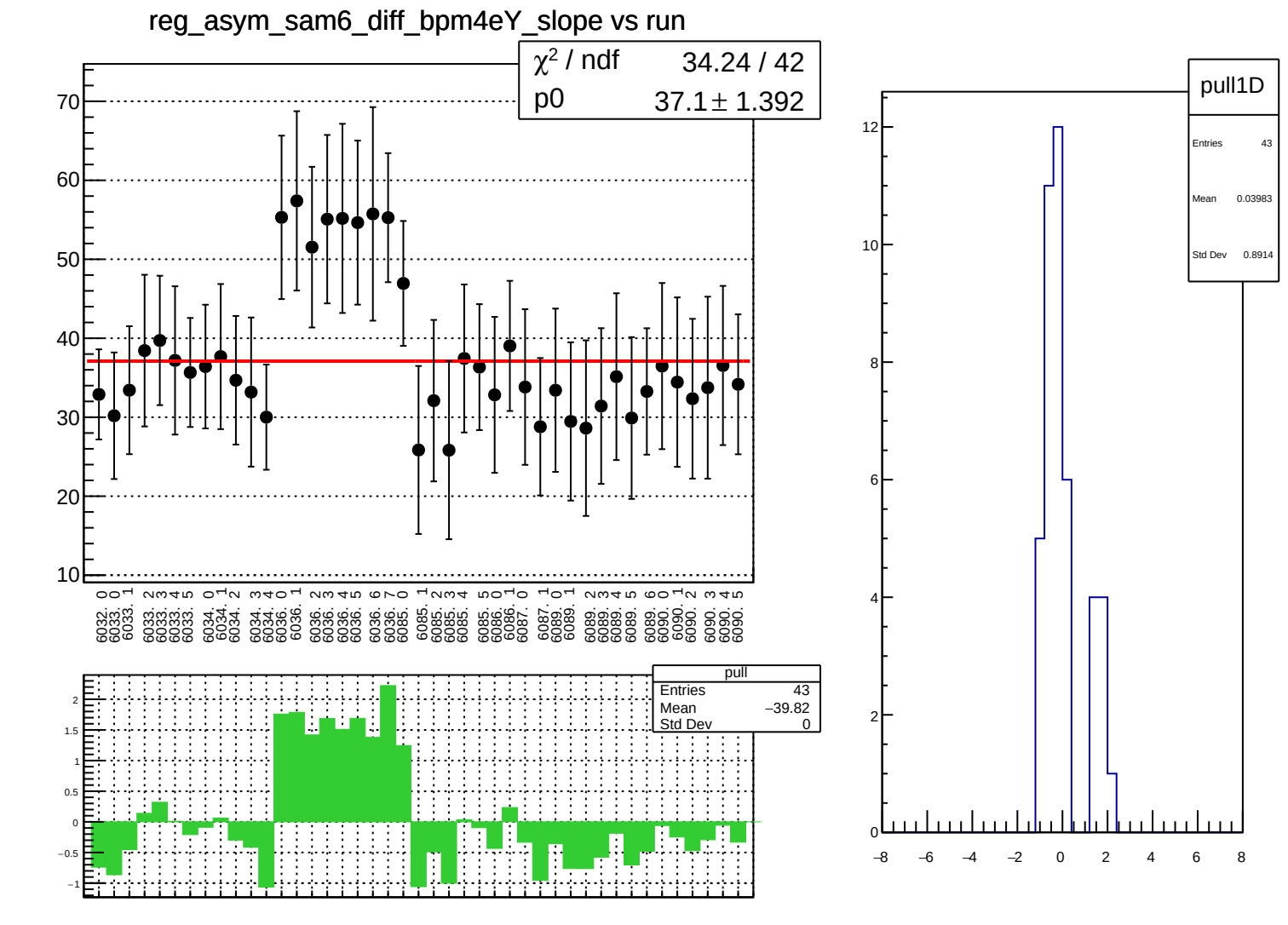

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.403 / 42
p0 −0.2603 ± 0.1037
pull
Entries 43
Mean 106.4
Std Dev 0
pull1D
Entries 43
Mean 0.0112
Std Dev 0.3857

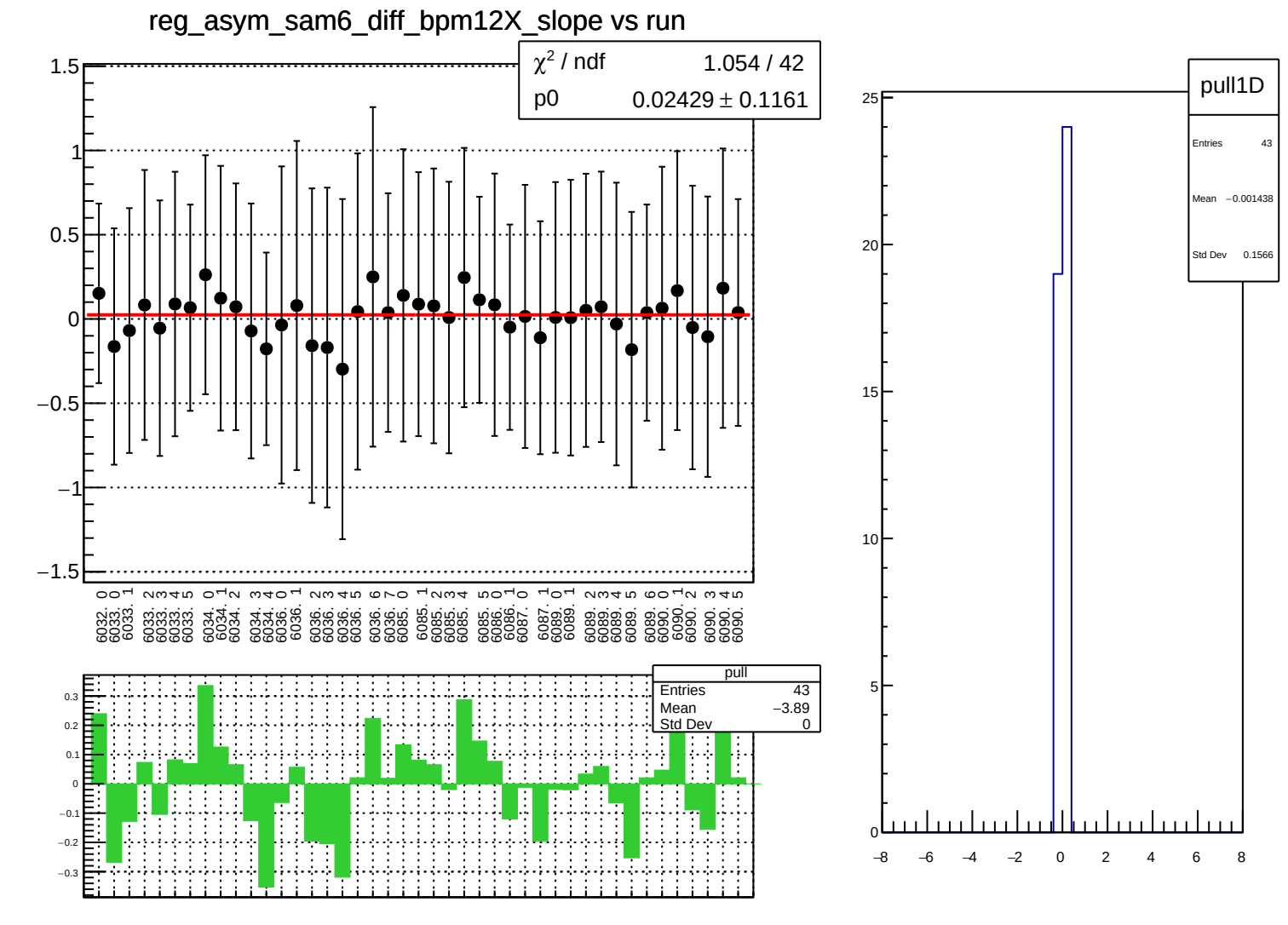

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.337 / 42
p0 13.95 ± 1.272
pull
Entries 43
Mean 184.1
Std Dev 0
pull1D
Entries 43
Mean 0.008321
Std Dev 0.2785

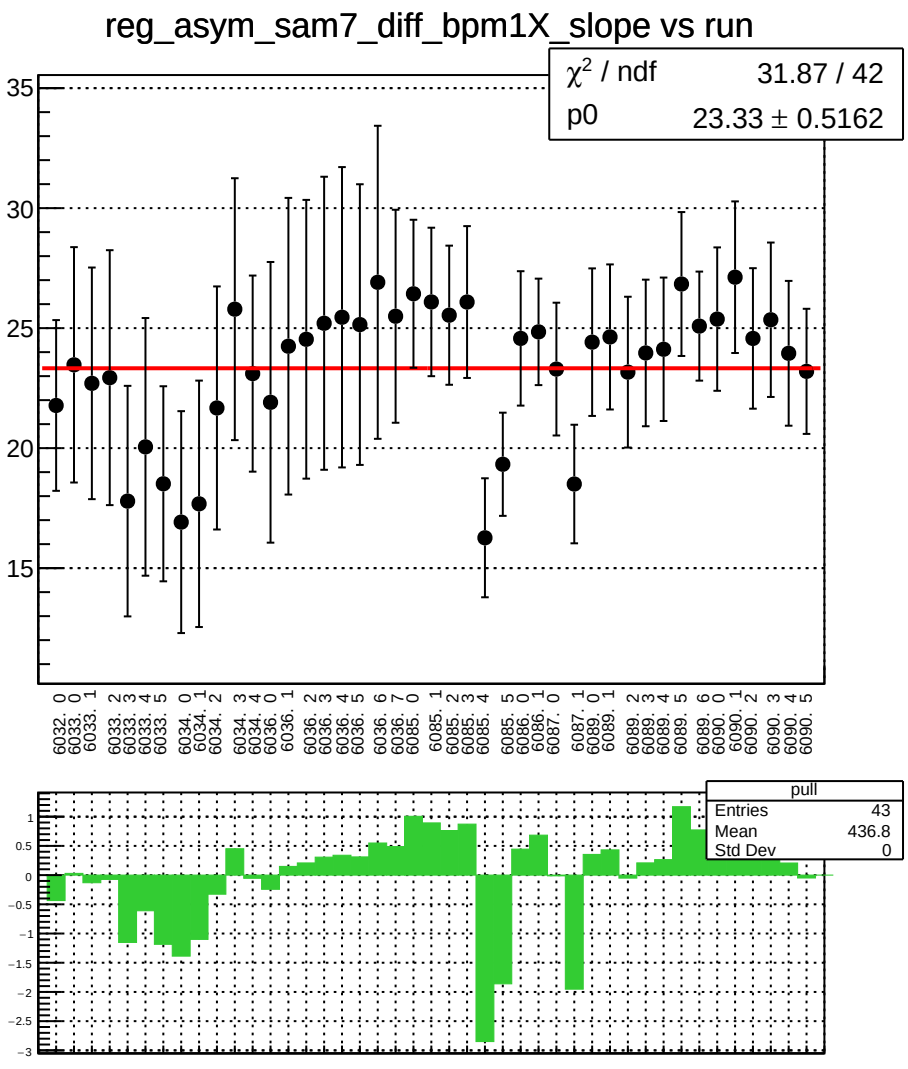

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 31.93 / 42
p0 54.47 ± 1.283
80
70
60
50
40
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 181.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03925
Std Dev 0.8608
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

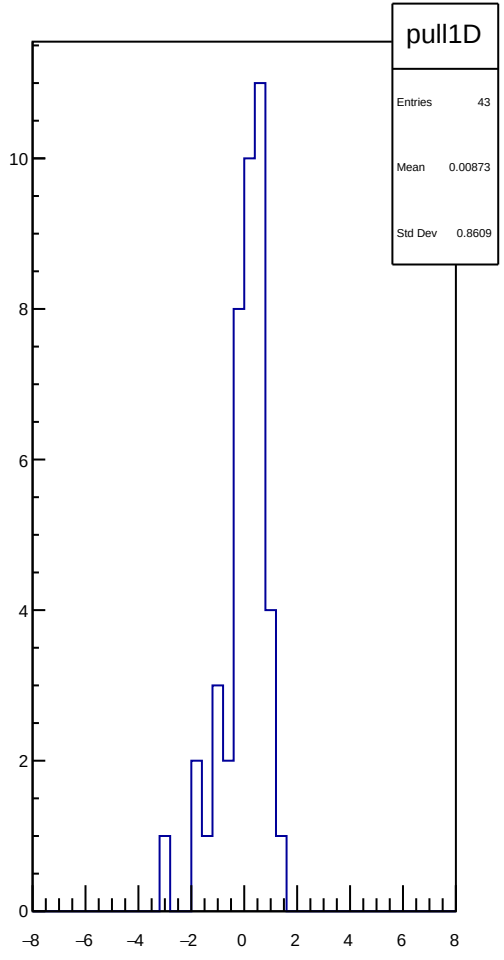

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.261 / 42
p0 41.23 ± 1.407
pull
Entries 43
Mean 71.19
Std Dev 0

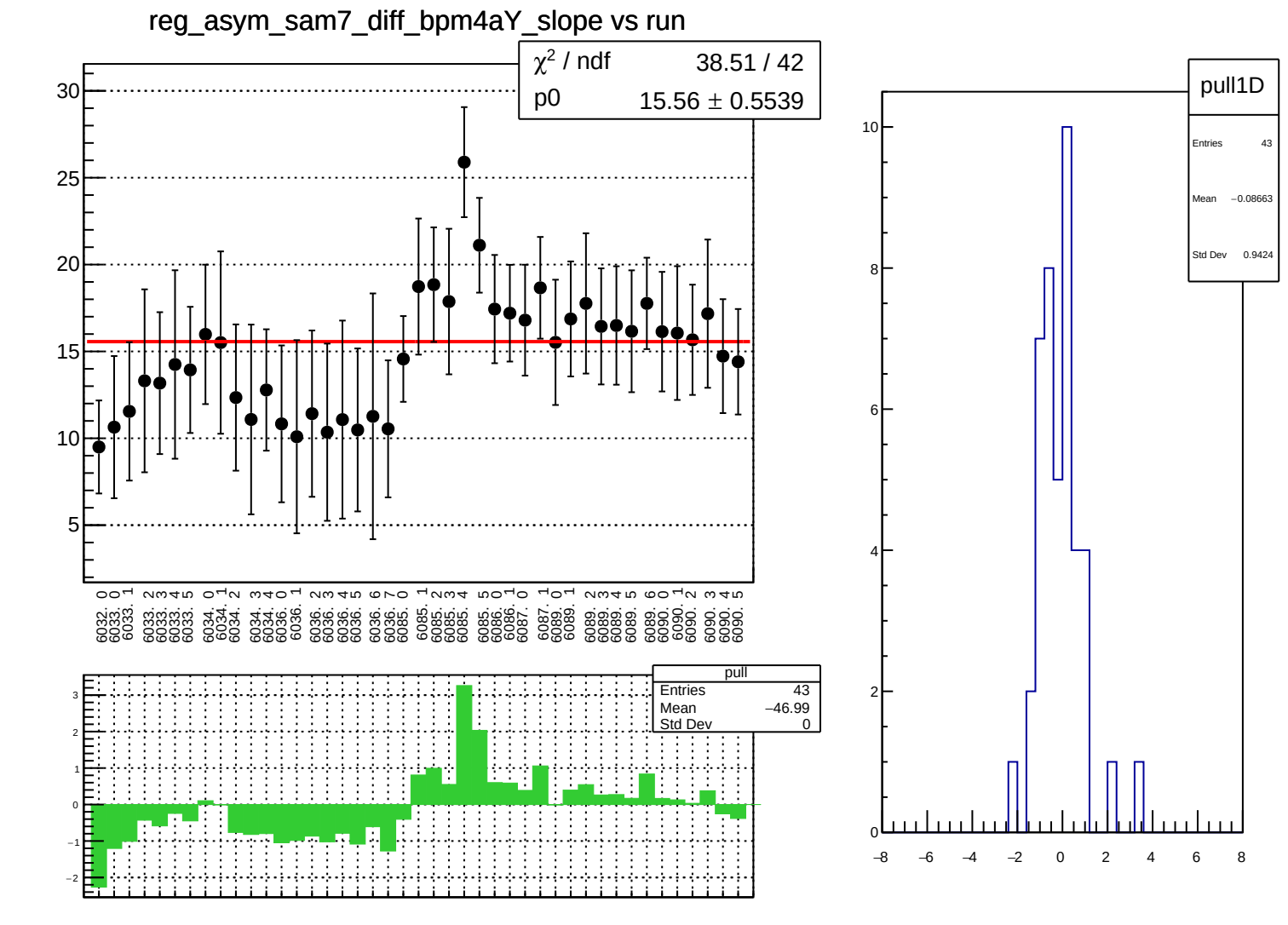

pull1D
Entries 43
Mean −0.01623
Std Dev 0.2749

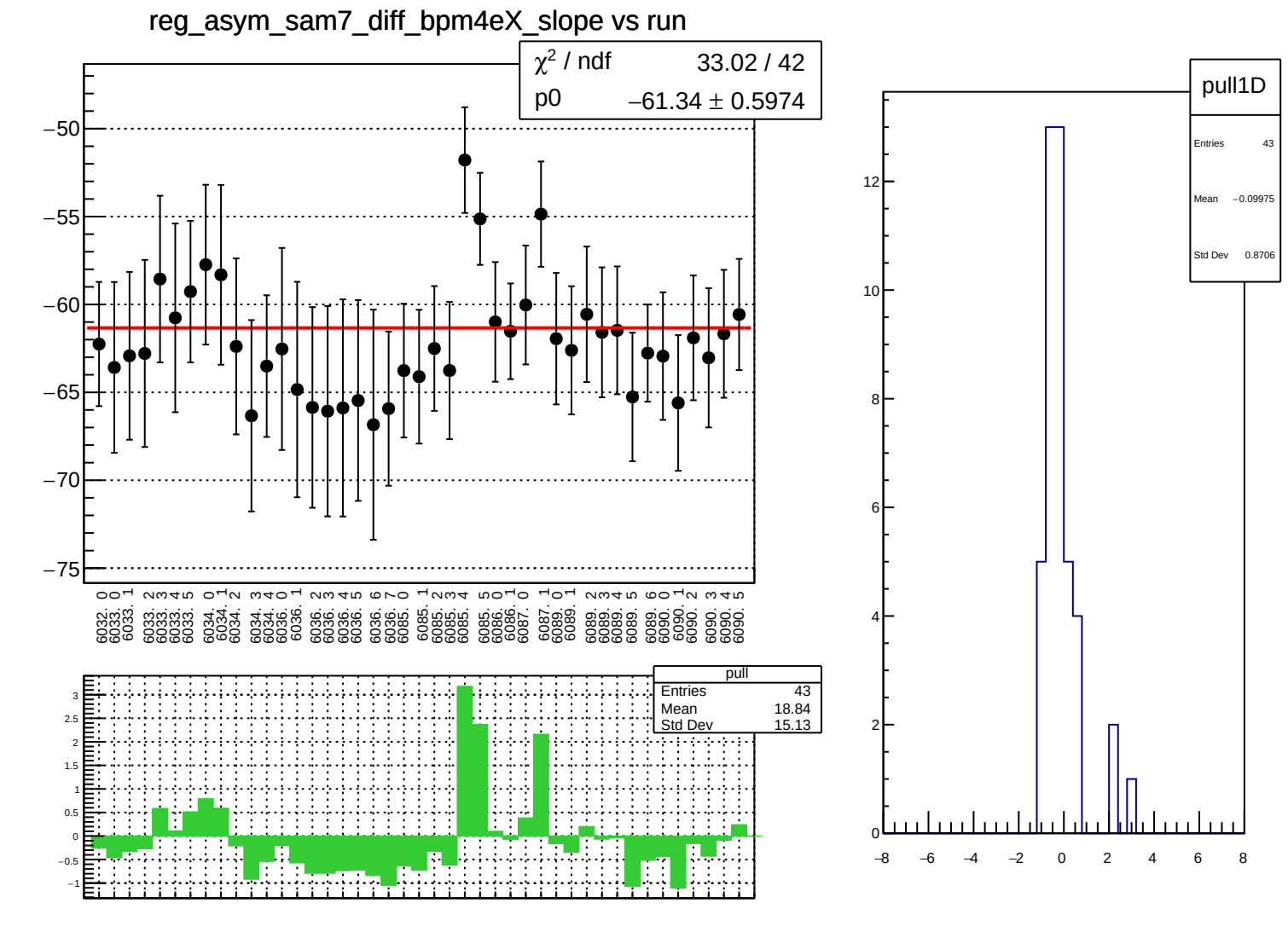

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 34.24 / 42
p0 37.1 ± 1.392
pull
Entries 43
Mean −39.82
Std Dev 0
pull1D
Entries 43
Mean 0.03983
Std Dev 0.8914

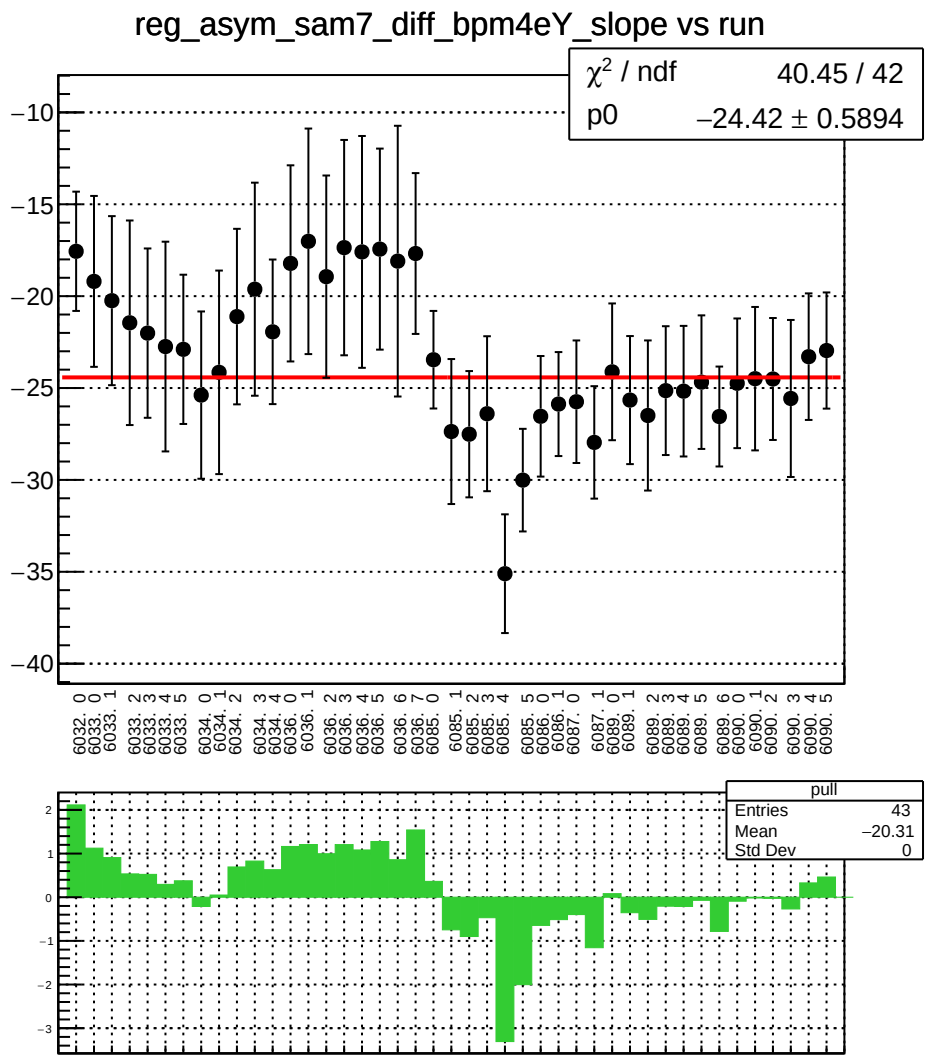

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.054 / 42
p0 0.02429 ± 0.1161
pull
Entries 43
Mean −3.89
Std Dev 0
pull1D
Entries 43
Mean −0.001438
Std Dev 0.1566

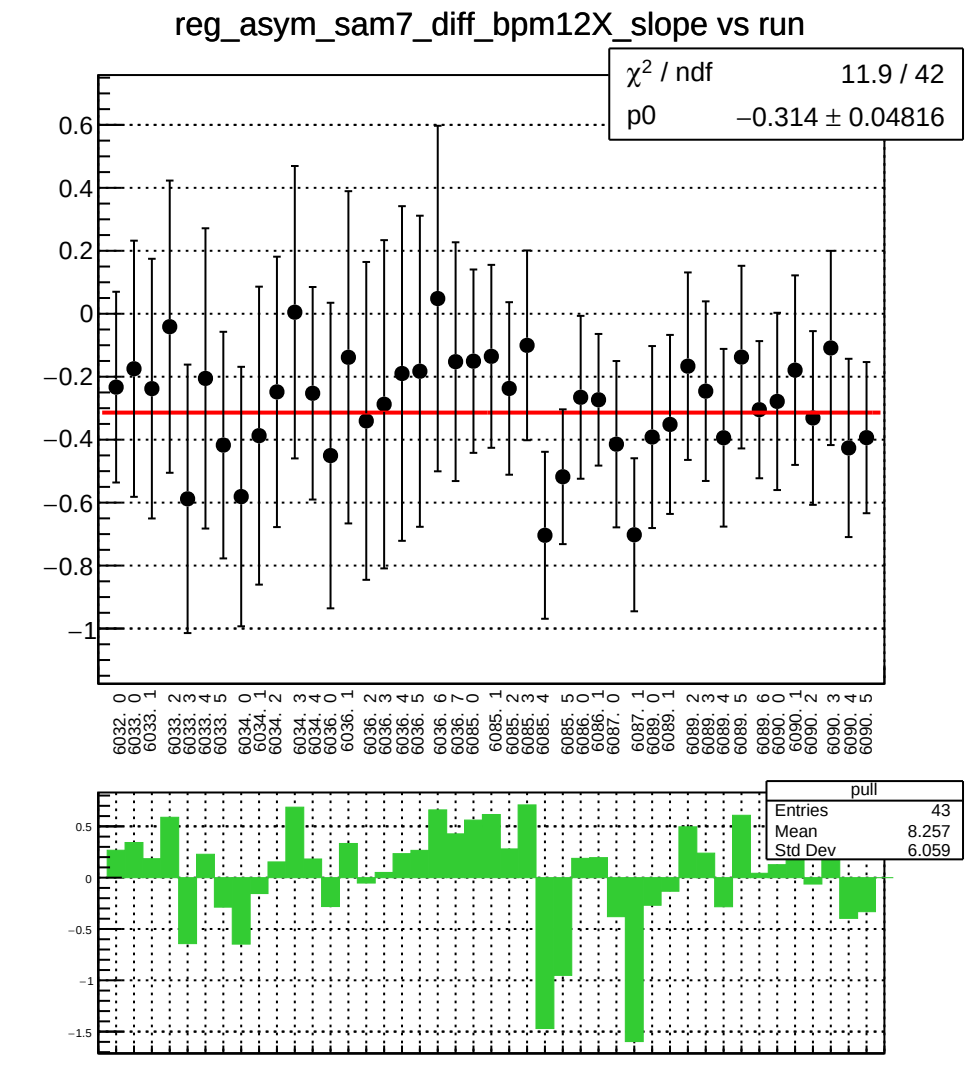

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 31.87 / 42
p0 23.33 ± 0.5162
35
30
25
20
15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 436.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

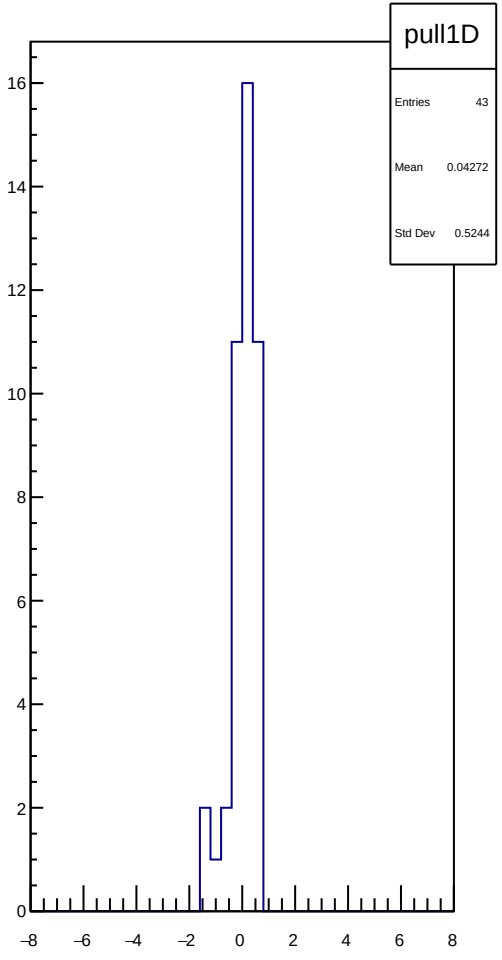

pull1D
Entries 43
Mean 0.00873
Std Dev 0.8609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

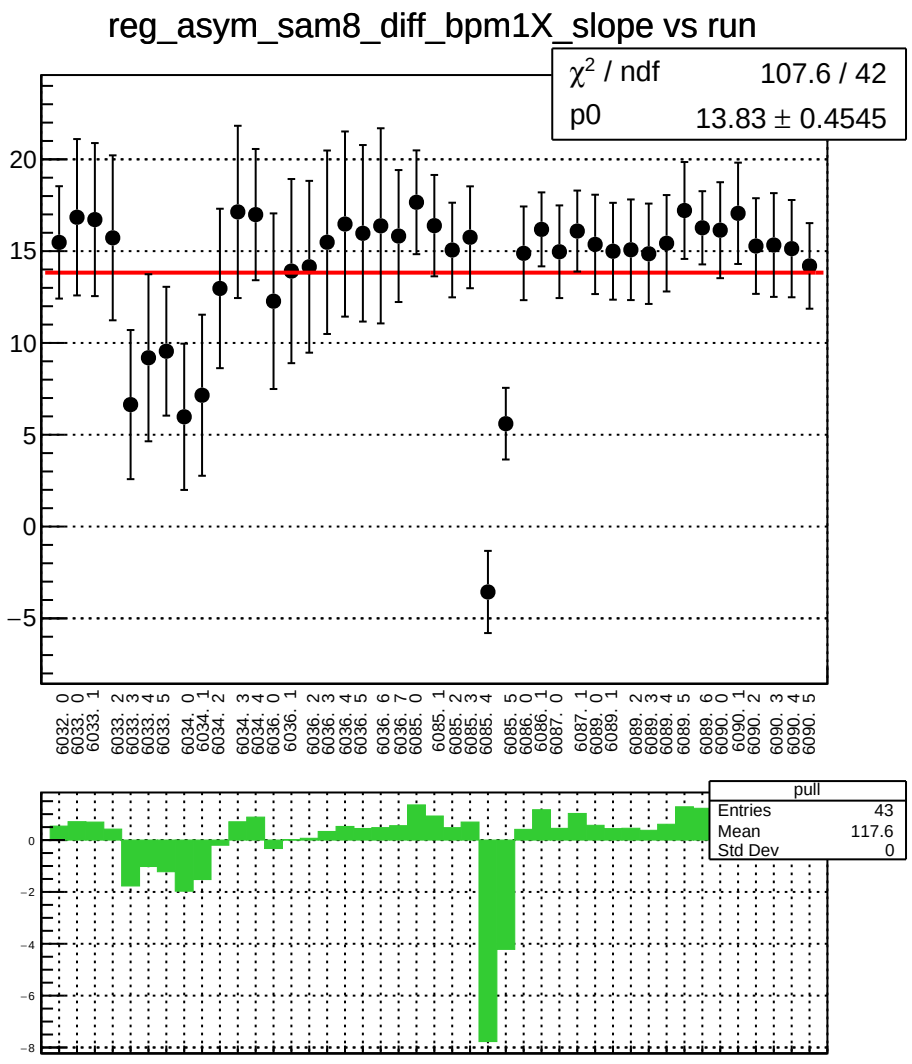

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 38.51 / 42
p0 15.56 ± 0.5539
pull
Entries 43
Mean −46.99
Std Dev 0
pull1D
Entries 43
Mean −0.08663
Std Dev 0.9424

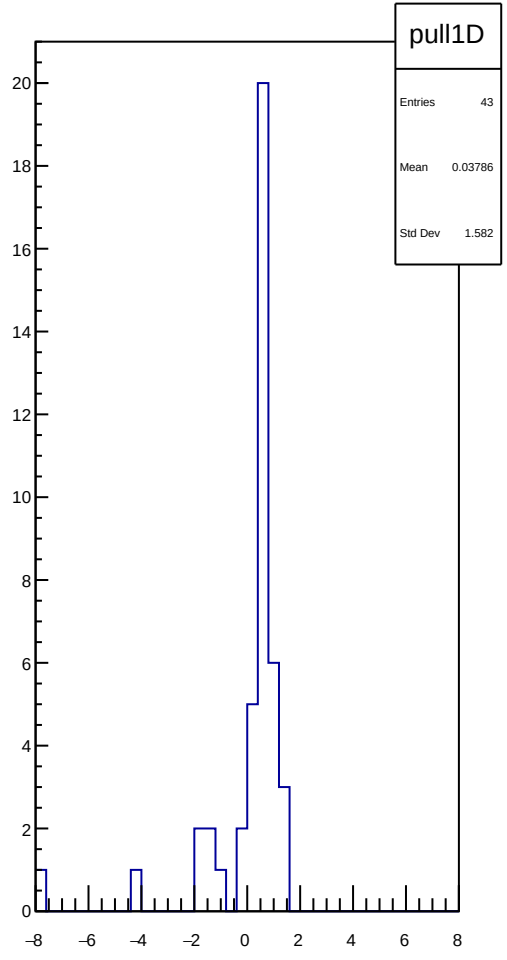

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 33.02 / 42
p0 −61.34 ± 0.5974
−50
−55
−60
−65
−70
−75
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.84
Std Dev 15.13
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.09975
Std Dev 0.8706
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

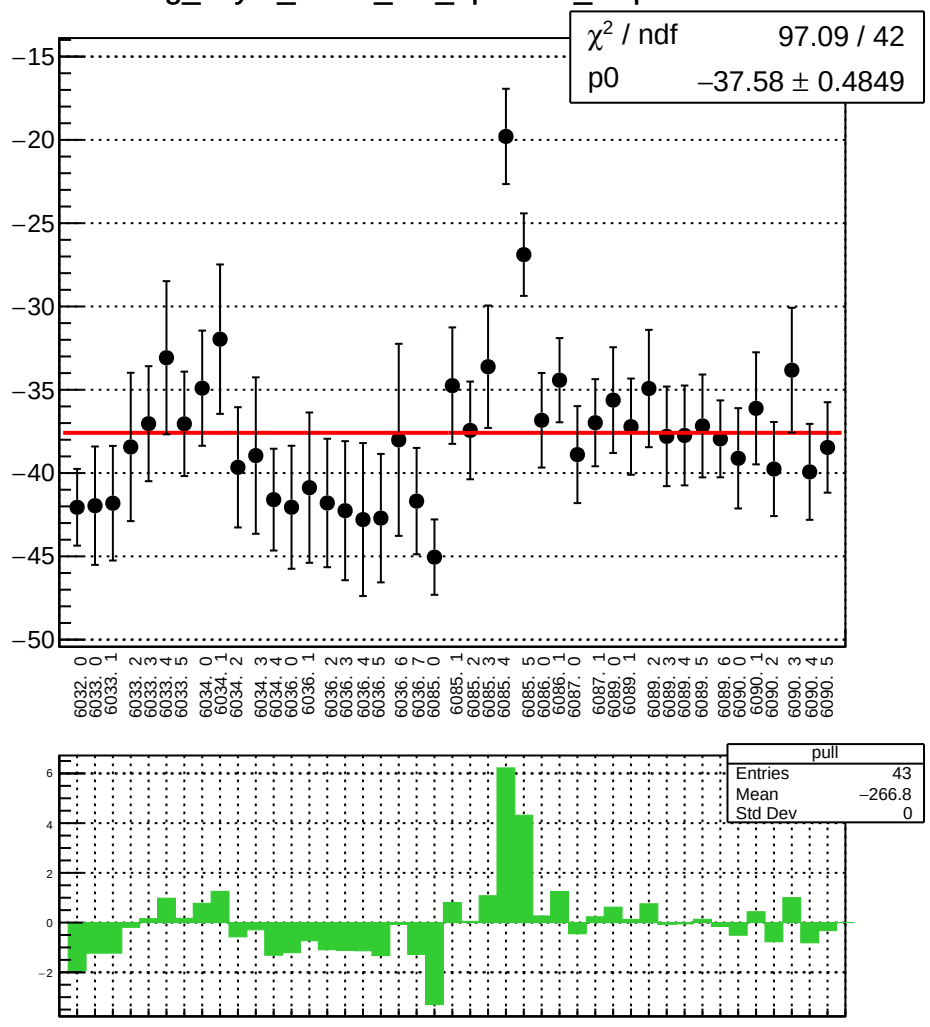

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 40.45 / 42
p0 −24.42 ± 0.5894
−10
−15
−20
−25
−30
−35
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −20.31
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.1339
Std Dev 0.9606
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

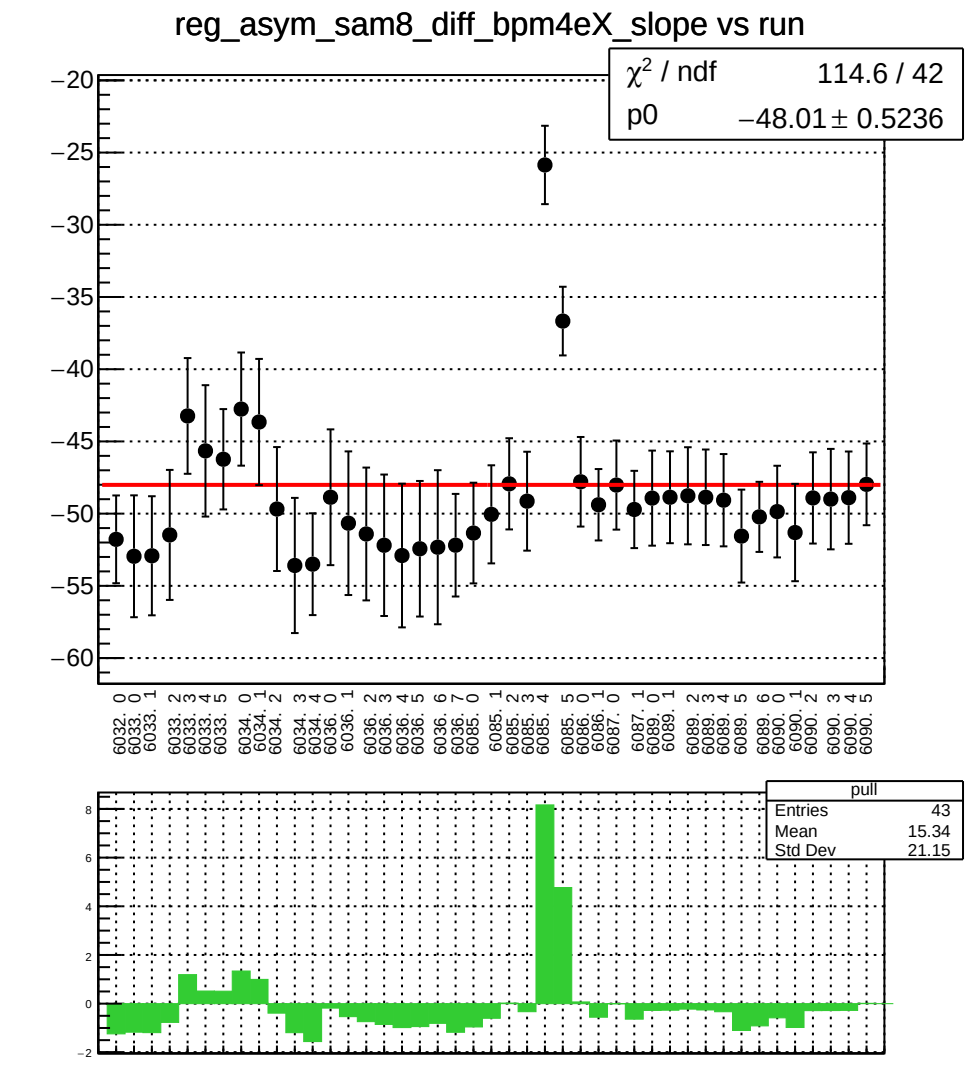

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.9 / 42
p0 −0.314 ± 0.04816
pull
Entries 43
Mean 8.257
Std Dev 6.059

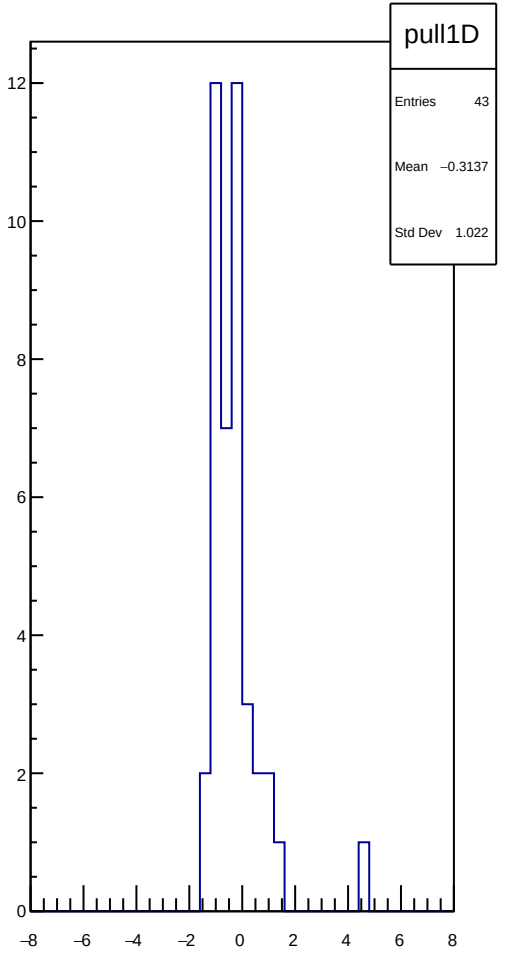

pull1D
Entries 43
Mean 0.04272
Std Dev 0.5244

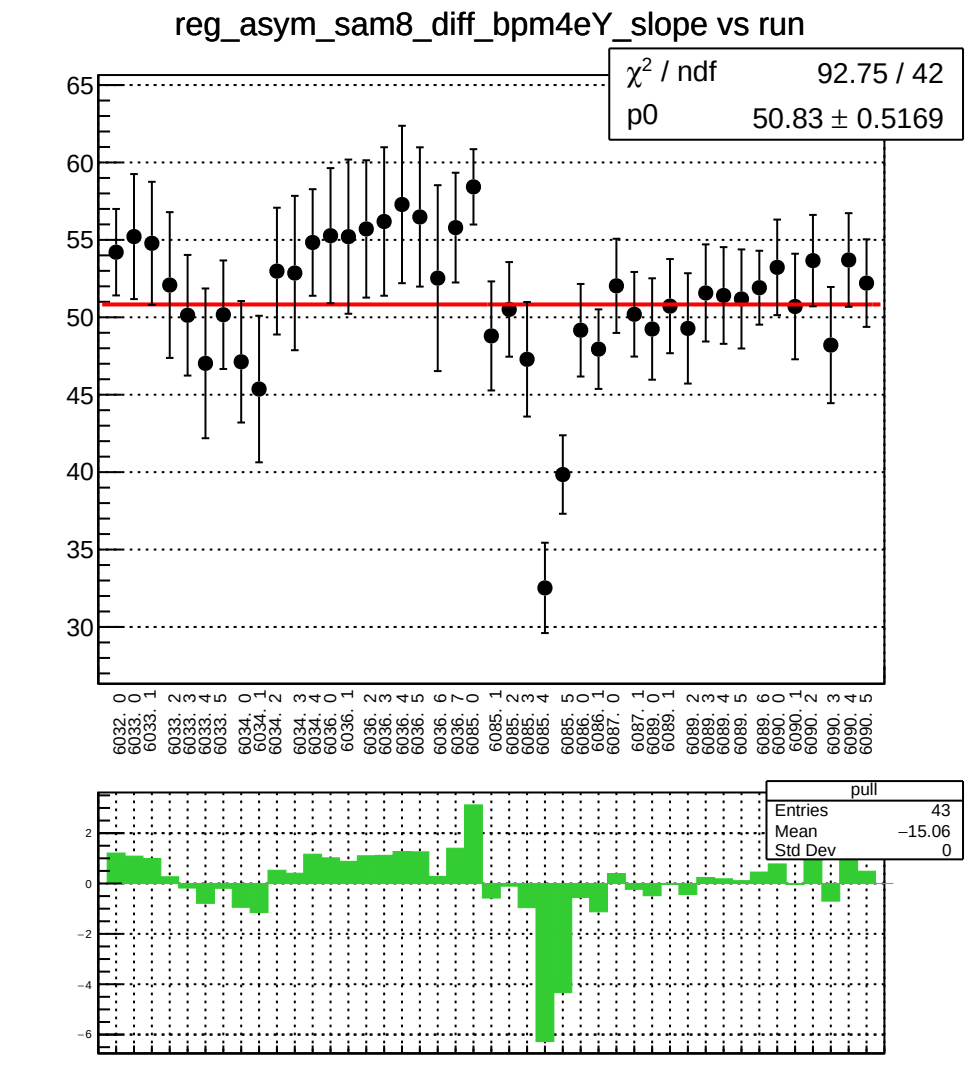

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 107.6 / 42
p0 13.83 ± 0.4545
pull
Entries 43
Mean 117.6
Std Dev 0

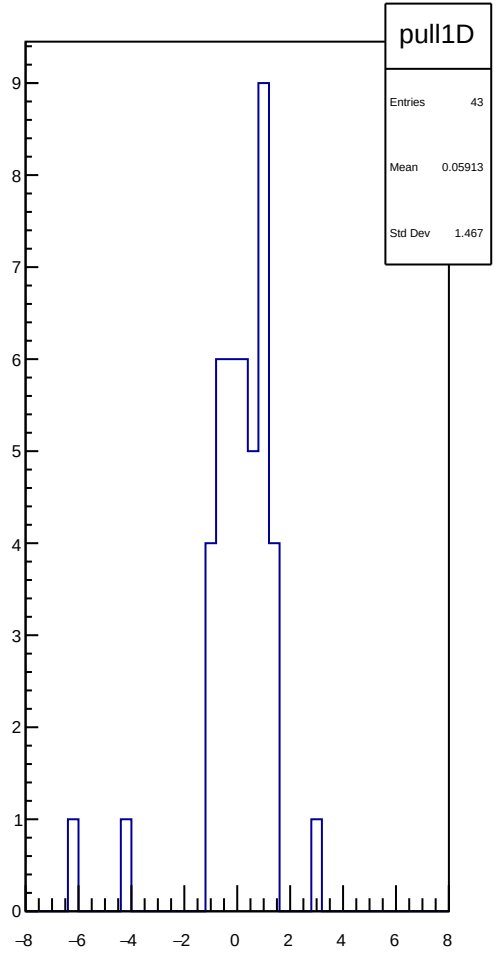

pull1D
Entries 43
Mean 0.03786
Std Dev 1.582

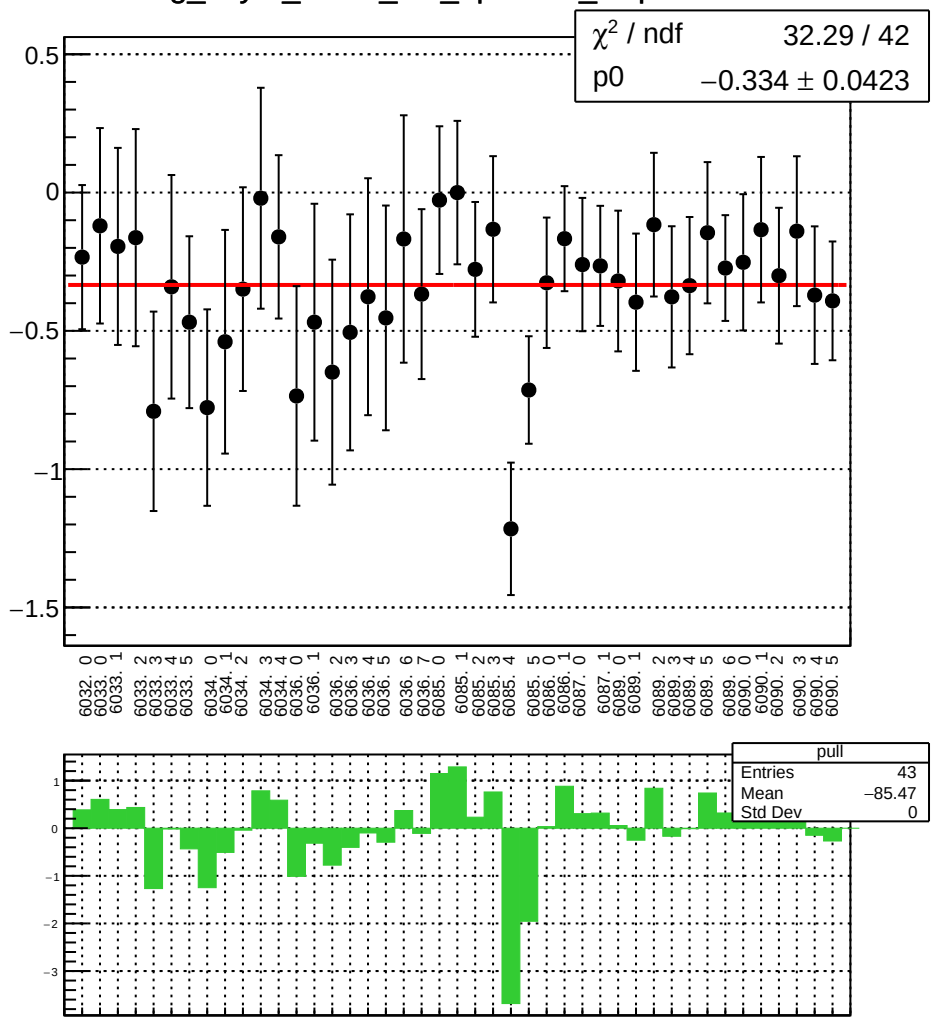

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 97.09 / 42
p0 −37.58 ± 0.4849
pull
Entries 43
Mean −266.8
Std Dev 0
pull1D
Entries 43
Mean −0.01256
Std Dev 1.503

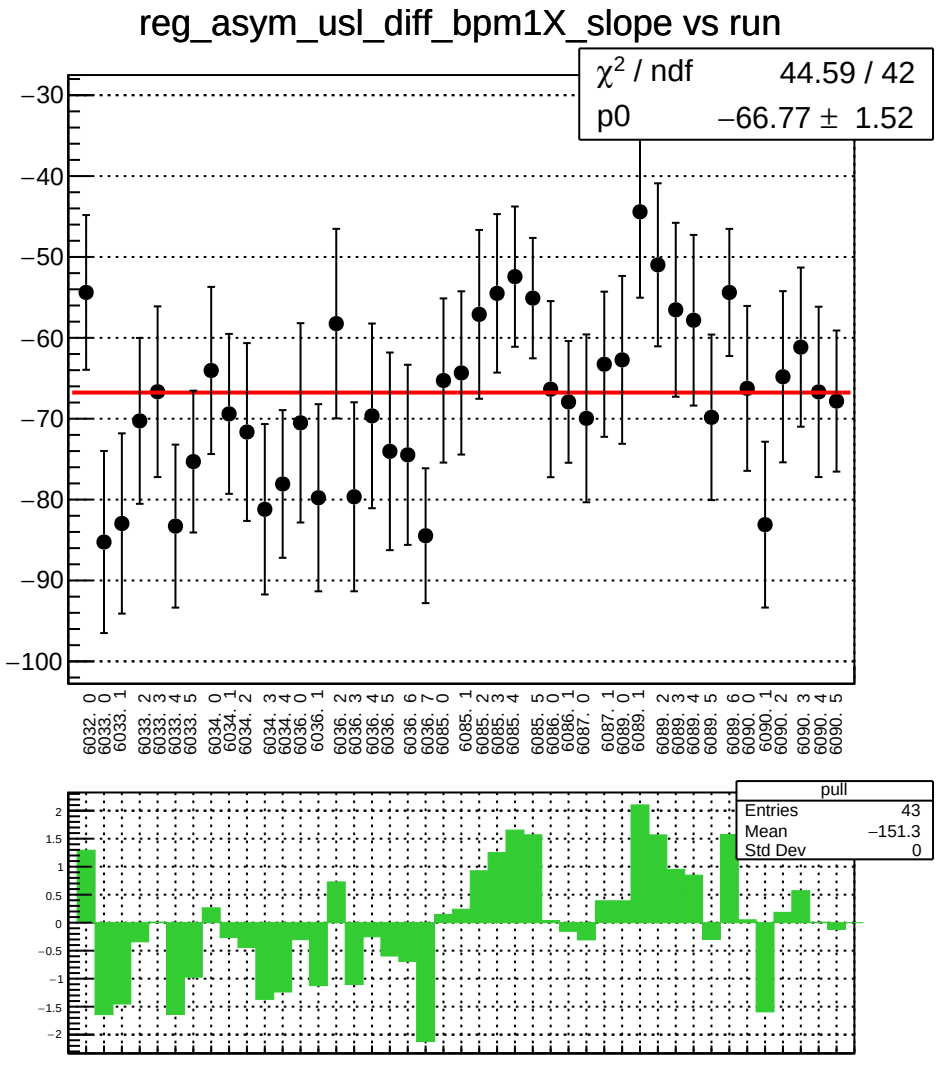

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 114.6 / 42
p0 −48.01 ± 0.5236
pull
Entries 43
Mean 15.34
Std Dev 21.15

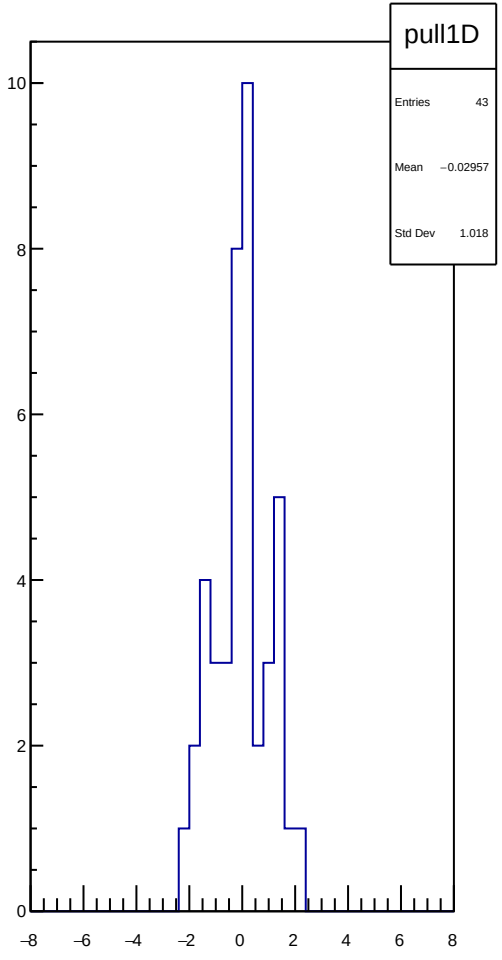

pull1D
Entries 43
Mean −0.3137
Std Dev 1.022

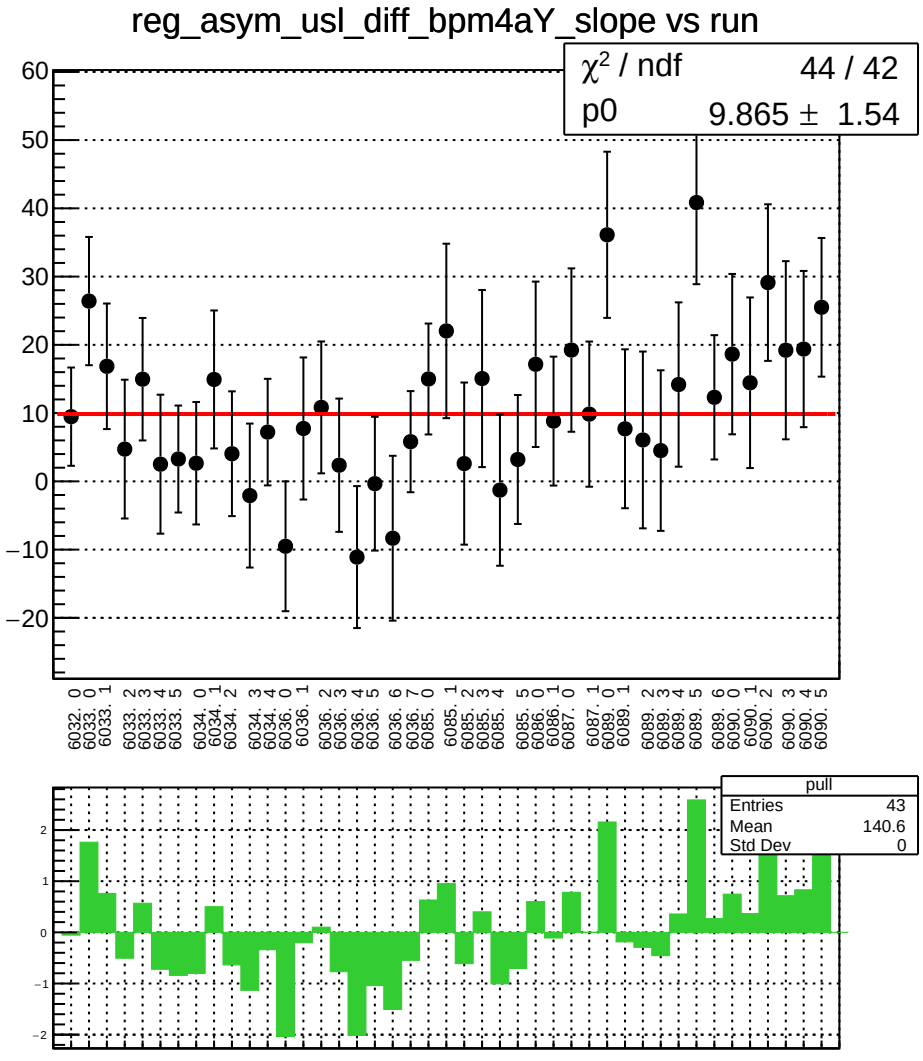

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 92.75 / 42
p0 50.83 ± 0.5169
65
60
55
50
45
40
35
30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −15.06
Std Dev 0
2
0
−2
−4
−6

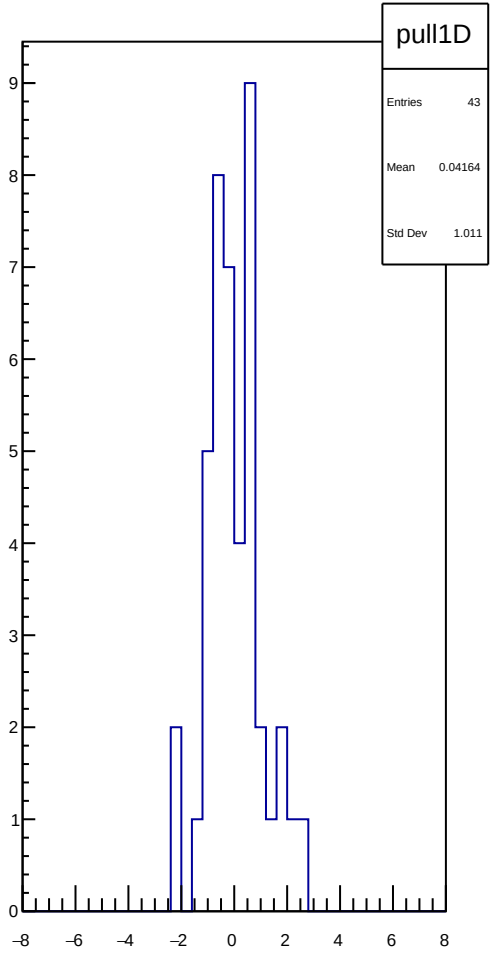

pull1D
Entries 43
Mean 0.05913
Std Dev 1.467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

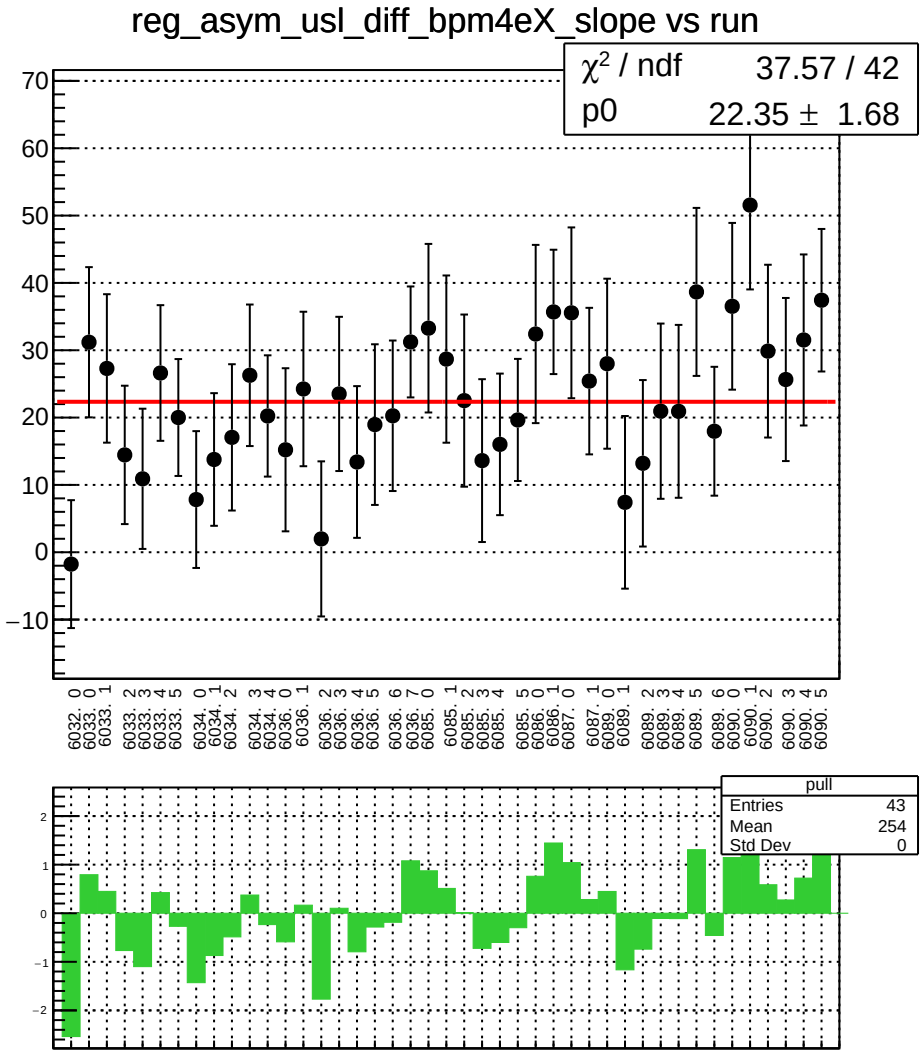

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 32.29 / 42
p0 −0.334 ± 0.0423
pull
Entries 43
Mean −85.47
Std Dev 0
pull1D
Entries 43
Mean −0.01324
Std Dev 0.8665

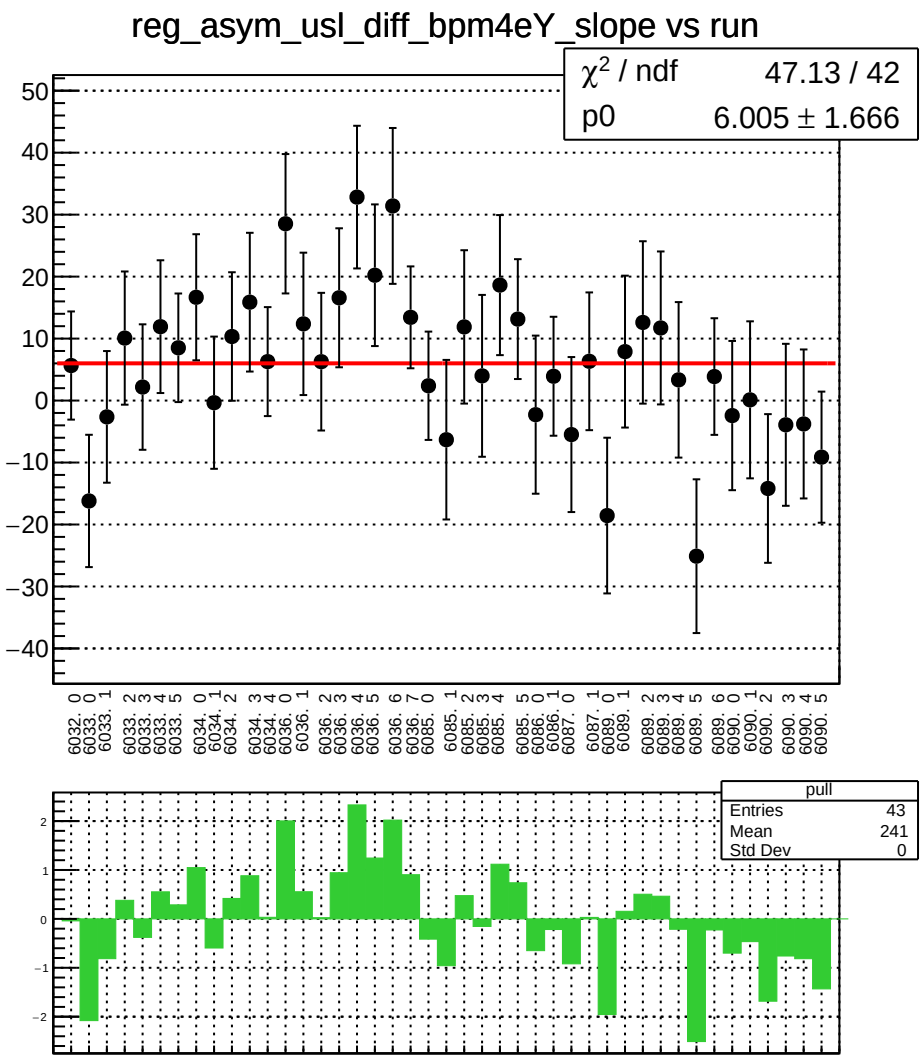

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 44.59 / 42
p0 −66.77 ± 1.52
pull
Entries 43
Mean −151.3
Std Dev 0

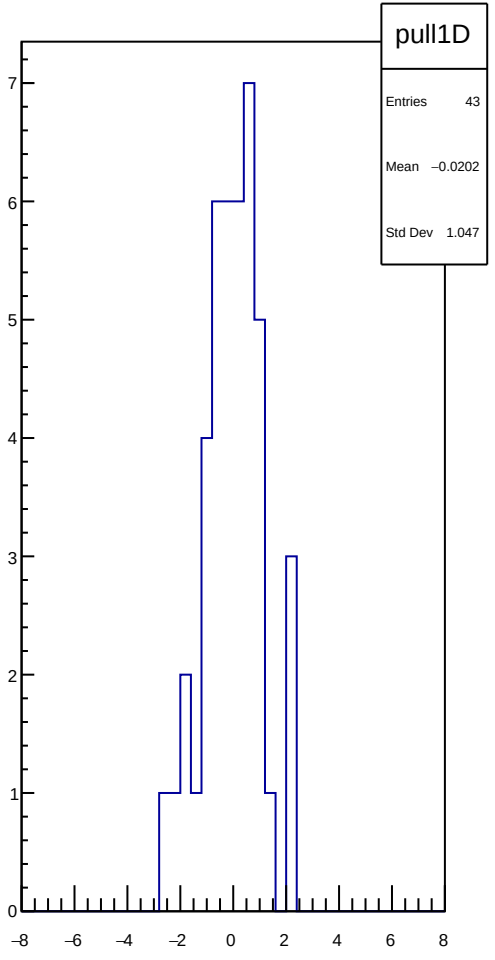

pull1D
Entries 43
Mean −0.02957
Std Dev 1.018

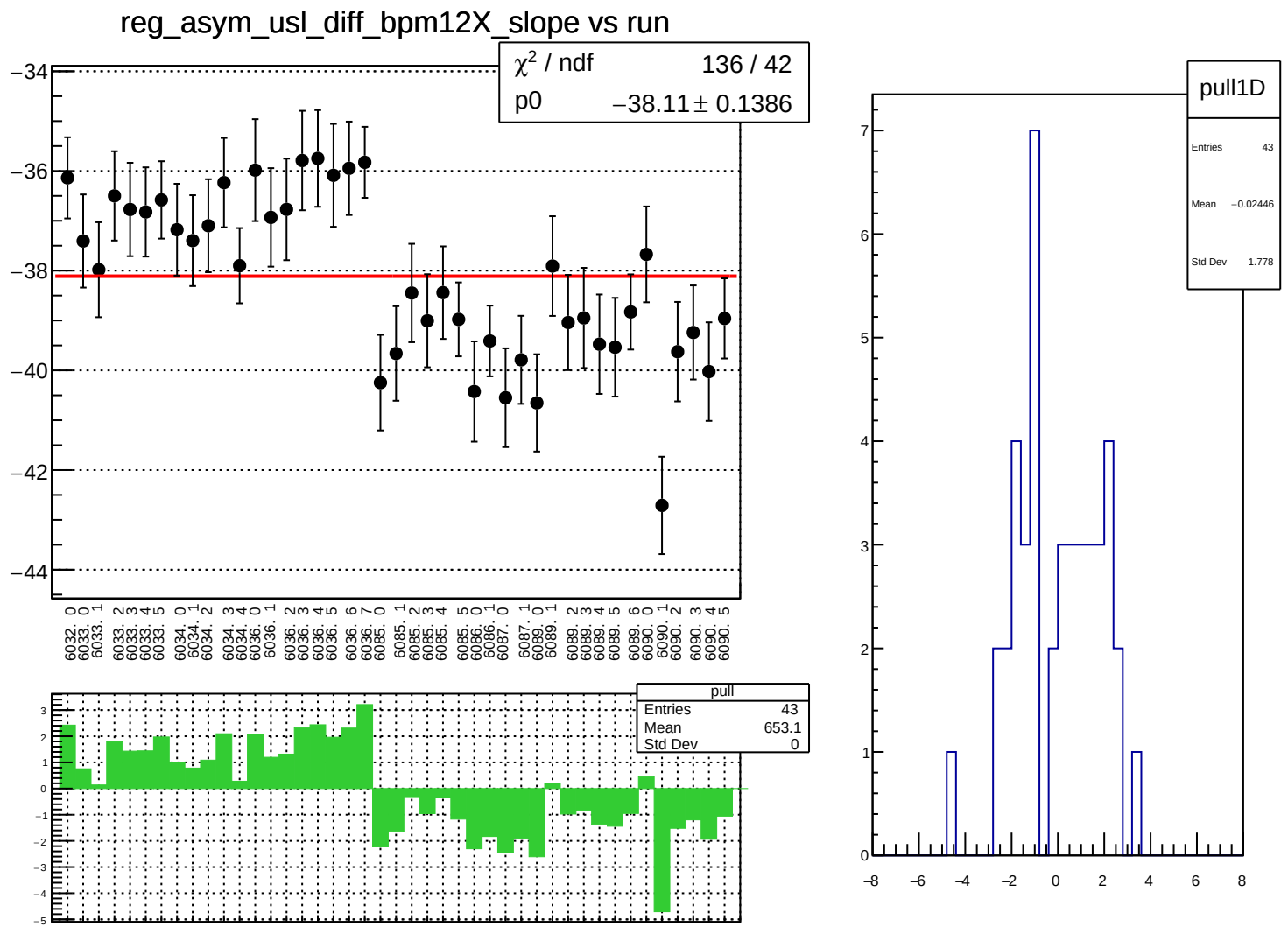

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 44 / 42
p0 9.865 ± 1.54
pull
Entries 43
Mean 140.6
Std Dev 0

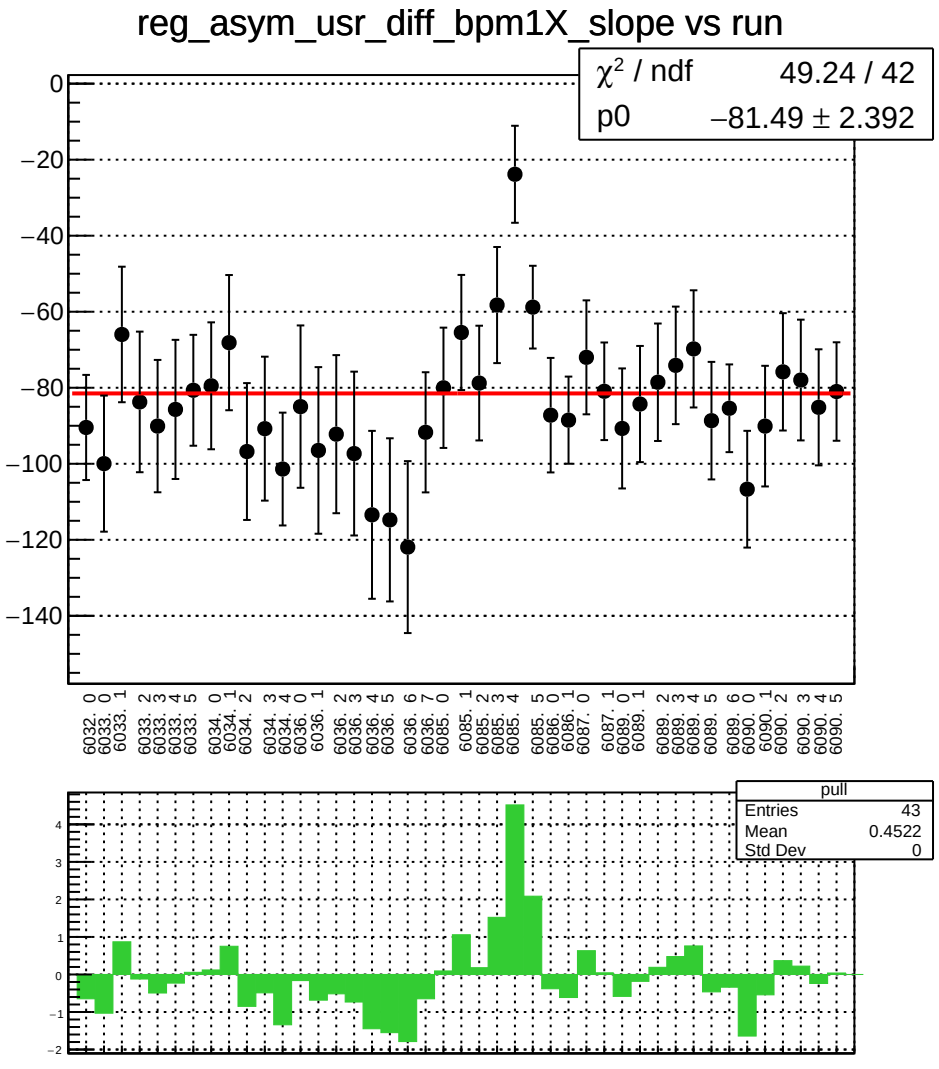

pull1D
Entries 43
Mean 0.04164
Std Dev 1.011

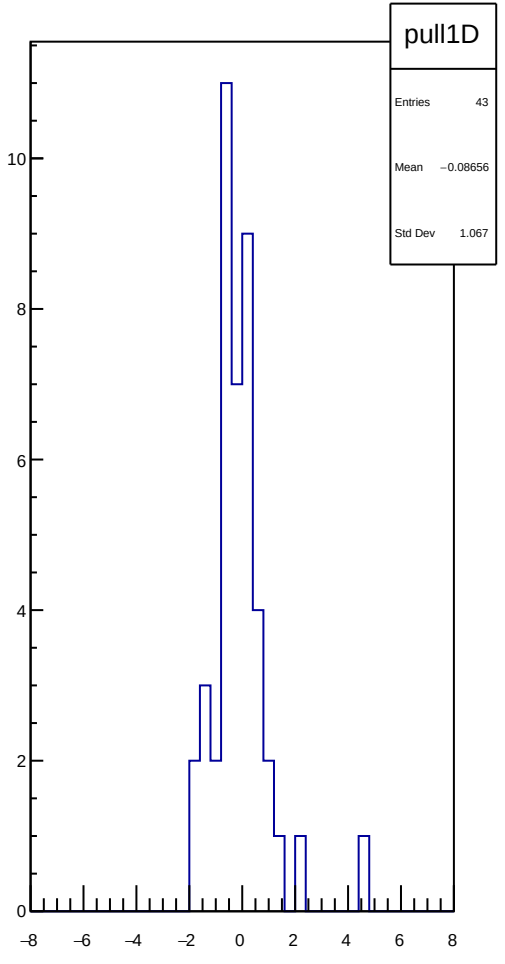

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 37.57 / 42
p0 22.35 ± 1.68
pull
Entries 43
Mean 254
Std Dev 0
pull1D
Entries 43
Mean 0.02412
Std Dev 0.9345

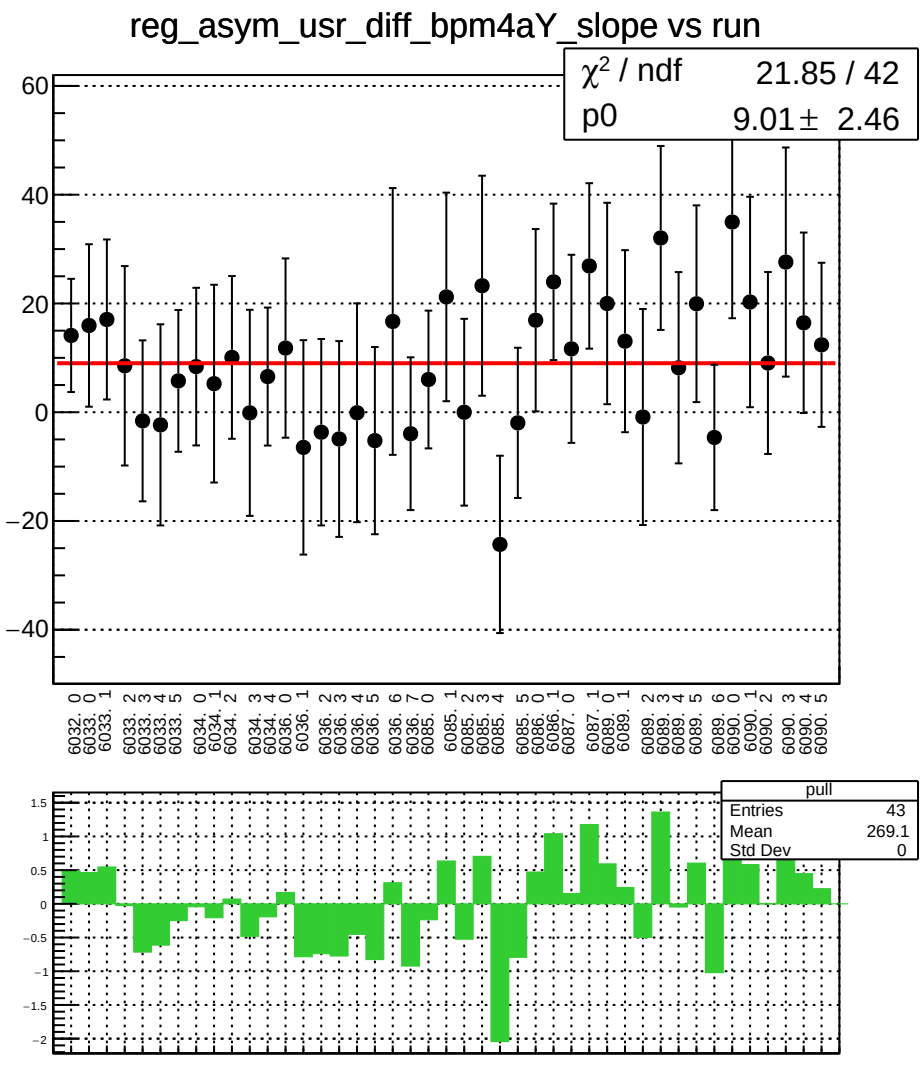

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 47.13 / 42
p0 6.005 ± 1.666
pull
Entries 43
Mean 241
Std Dev 0

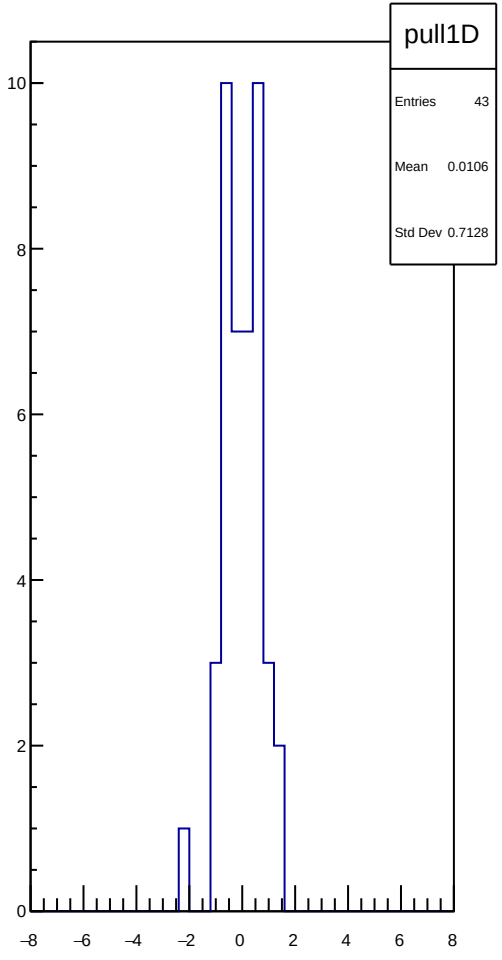

pull1D
Entries 43
Mean −0.0202
Std Dev 1.047

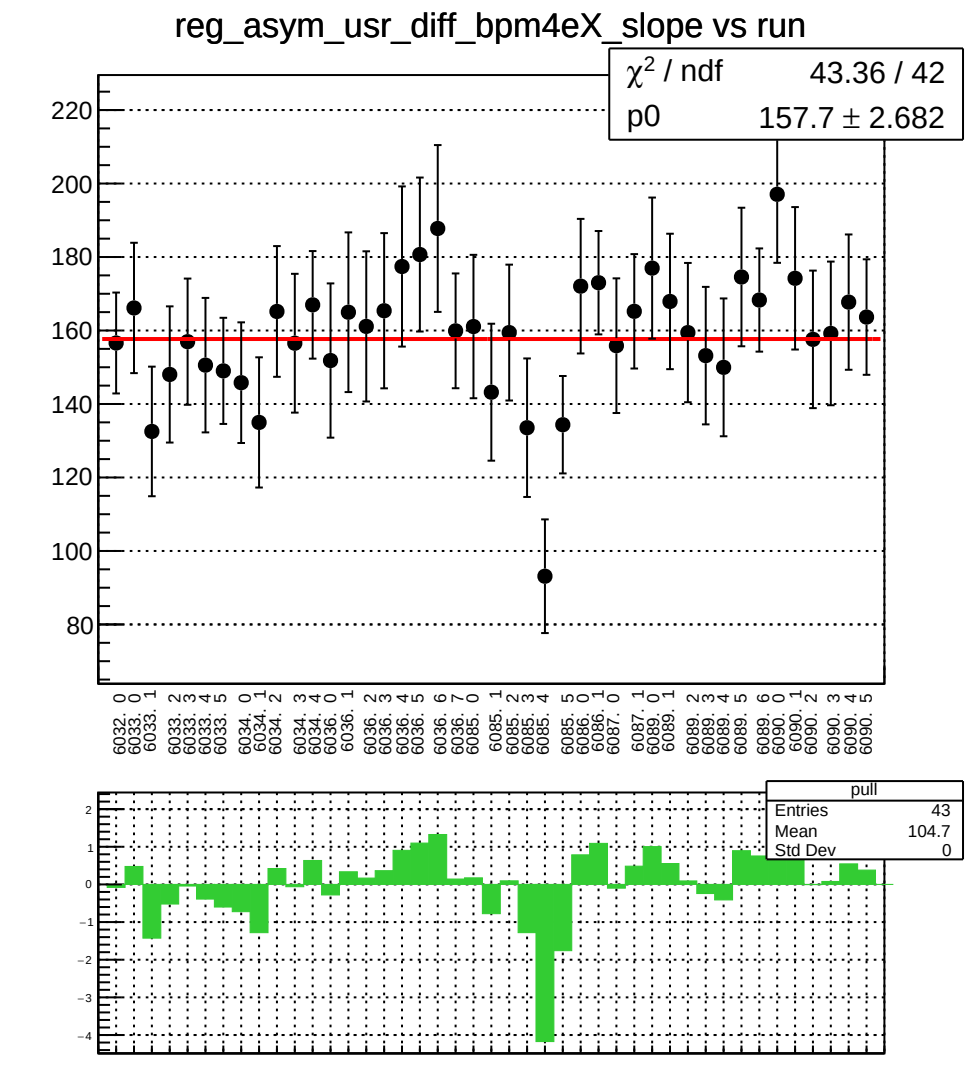

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 136 / 42
p0 −38.11 ± 0.1386
−34
−36
−38
−40
−42
−44
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 653.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean −0.02446
Std Dev 1.778
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

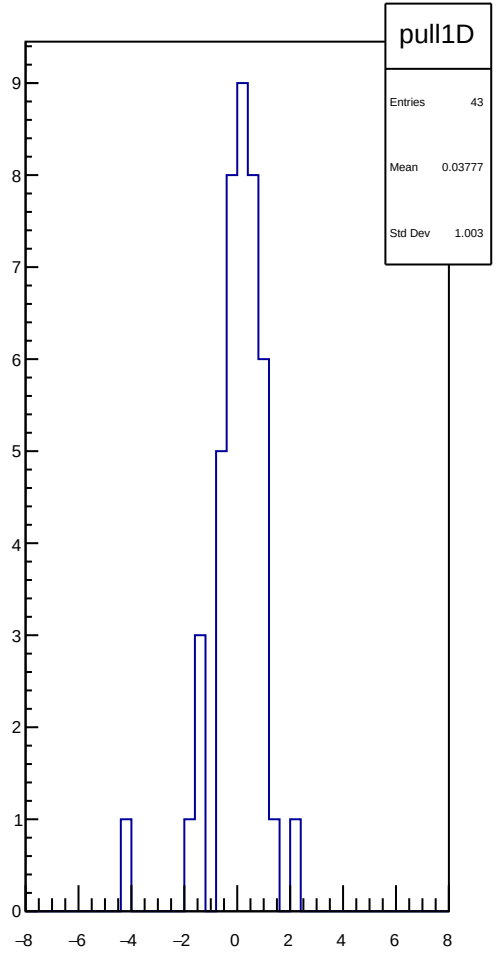

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 49.24 / 42
p0 −81.49 ± 2.392
pull
Entries 43
Mean 0.4522
Std Dev 0

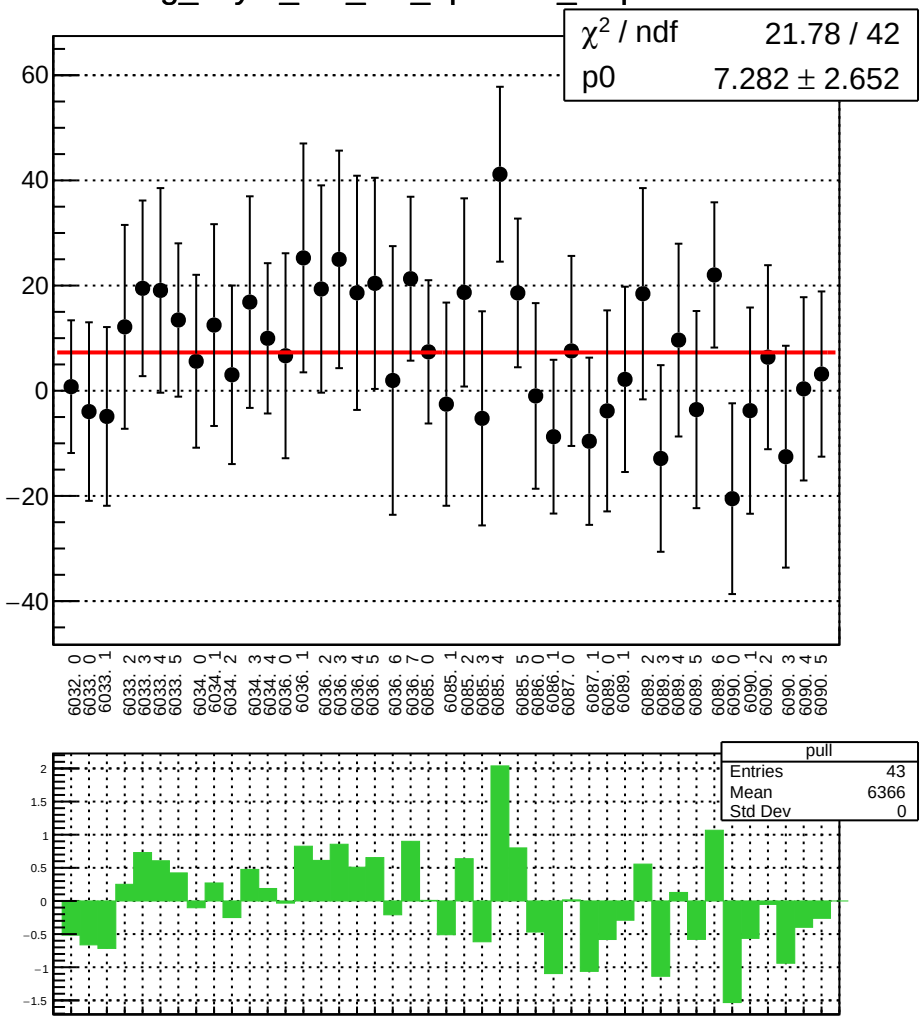

pull1D
Entries 43
Mean −0.08656
Std Dev 1.067

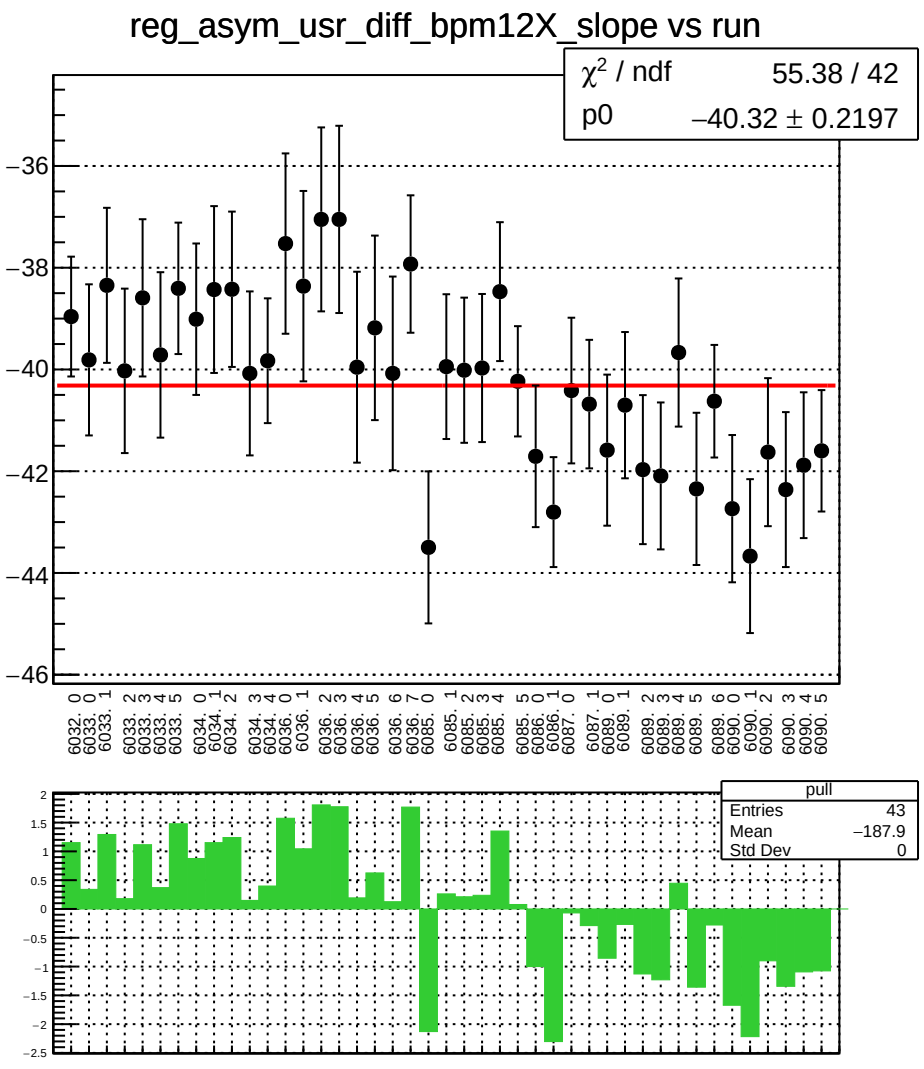

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 21.85 / 42
p0 9.01 ± 2.46
pull
Entries 43
Mean 269.1
Std Dev 0

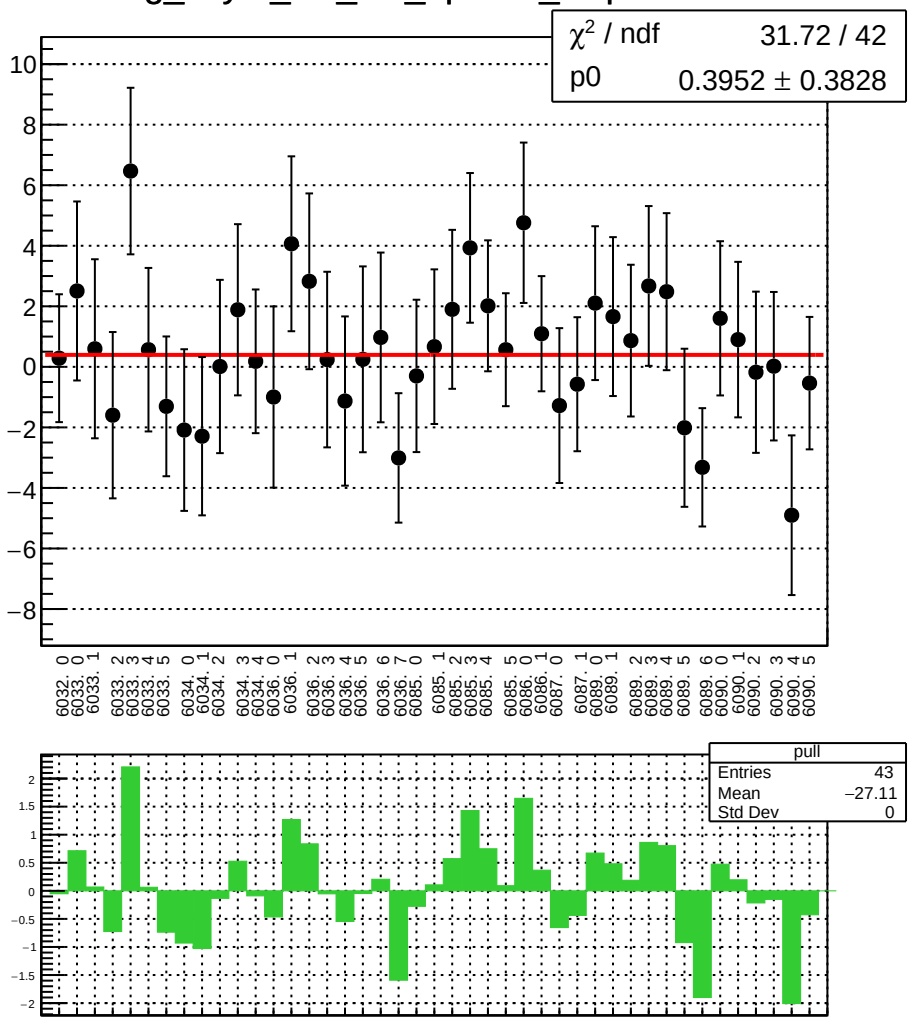

pull1D
Entries 43
Mean 0.0106
Std Dev 0.7128

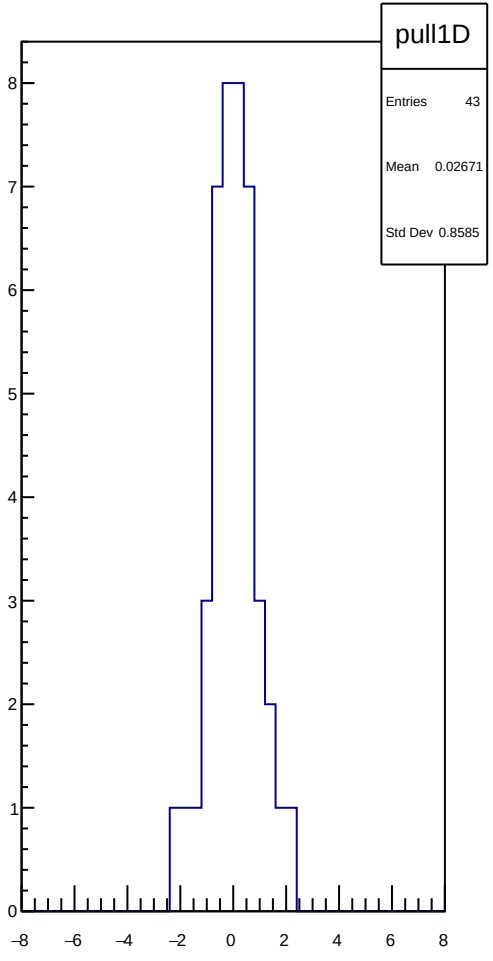

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 43.36 / 42
p0 157.7 ± 2.682
pull
Entries 43
Mean 104.7
Std Dev 0

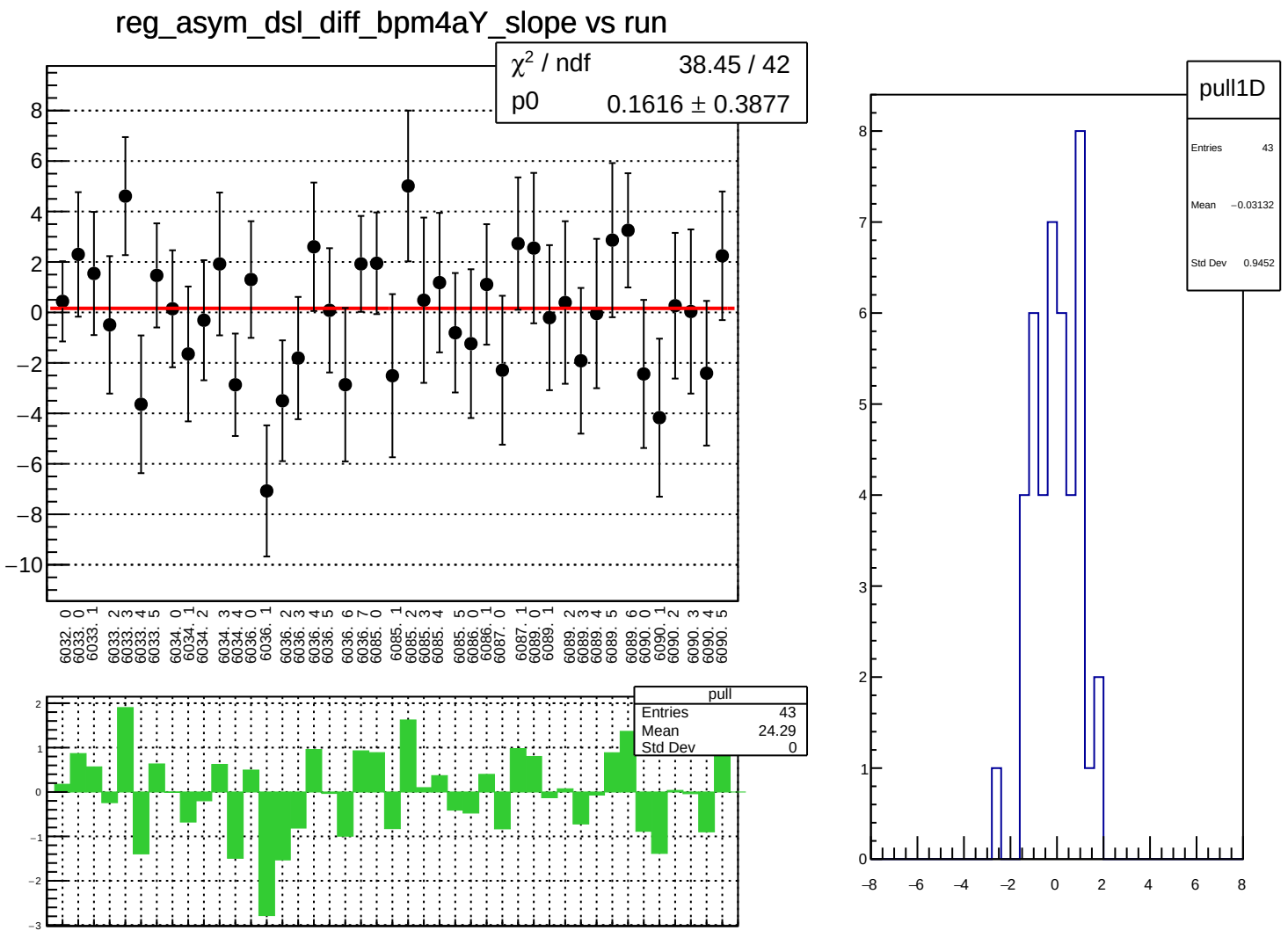

pull1D
Entries 43
Mean 0.03777
Std Dev 1.003

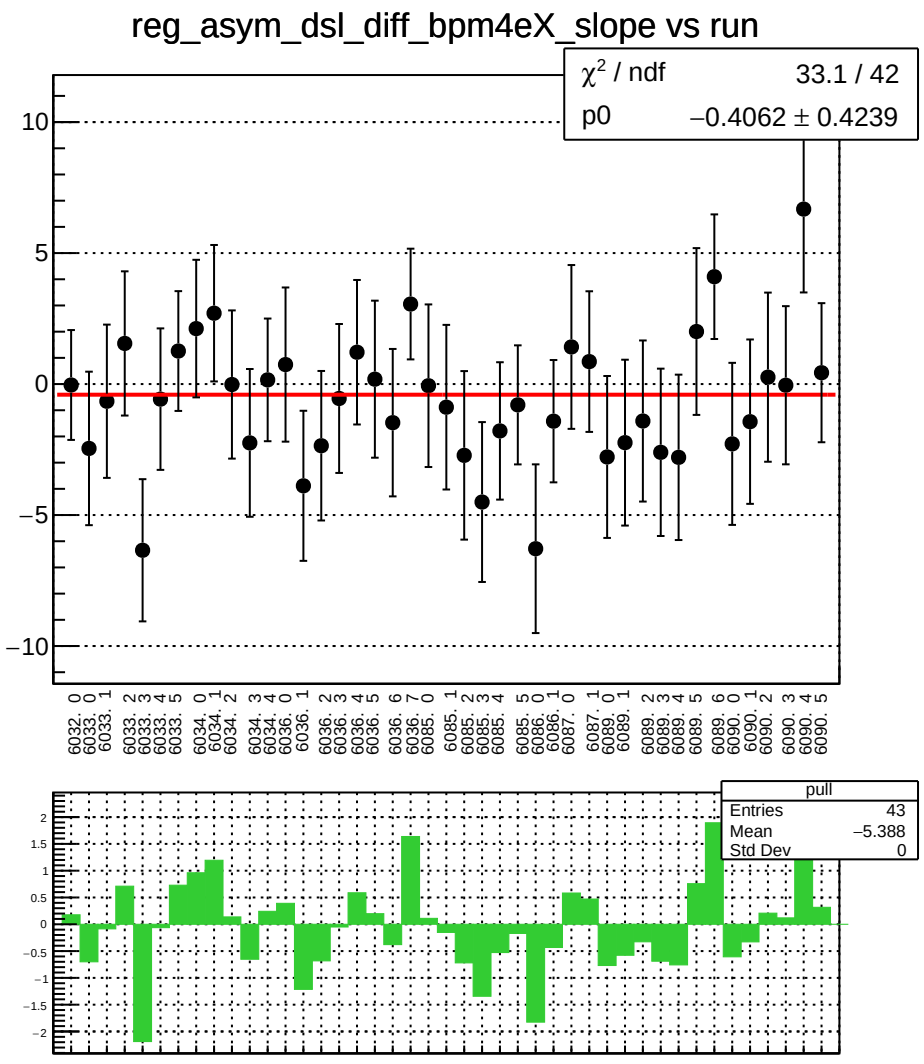

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 21.78 / 42
p0 7.282 ± 2.652
pull
Entries 43
Mean 6366
Std Dev 0
pull1D
Entries 43
Mean −0.0003835
Std Dev 0.7117

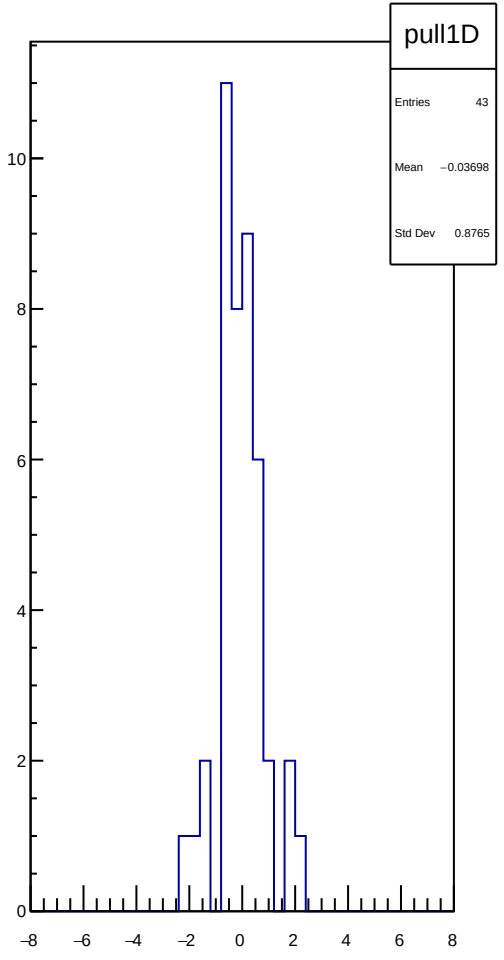

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 55.38 / 42
p0 −40.32 ± 0.2197
−36
−38
−40
−42
−44
−46
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −187.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04739
Std Dev 1.134
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

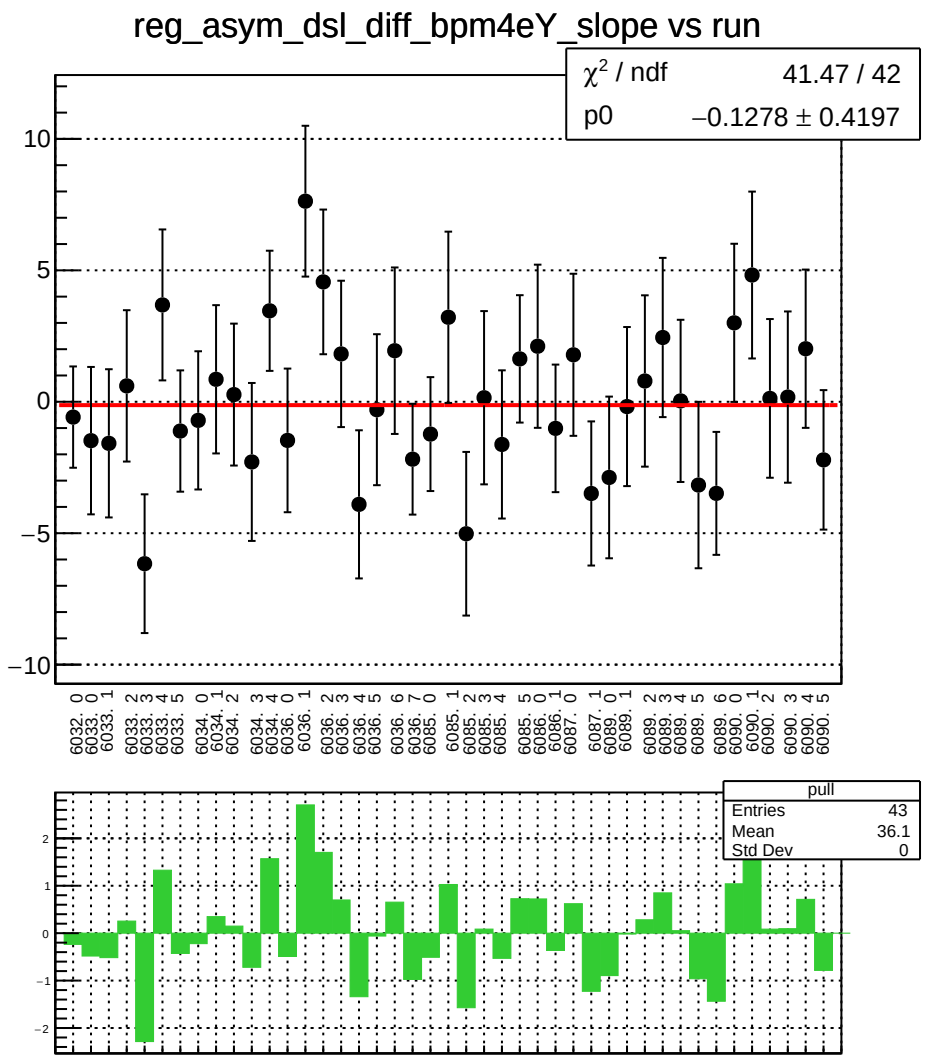

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 31.72 / 42
p0 0.3952 ± 0.3828
pull
Entries 43
Mean −27.11
Std Dev 0

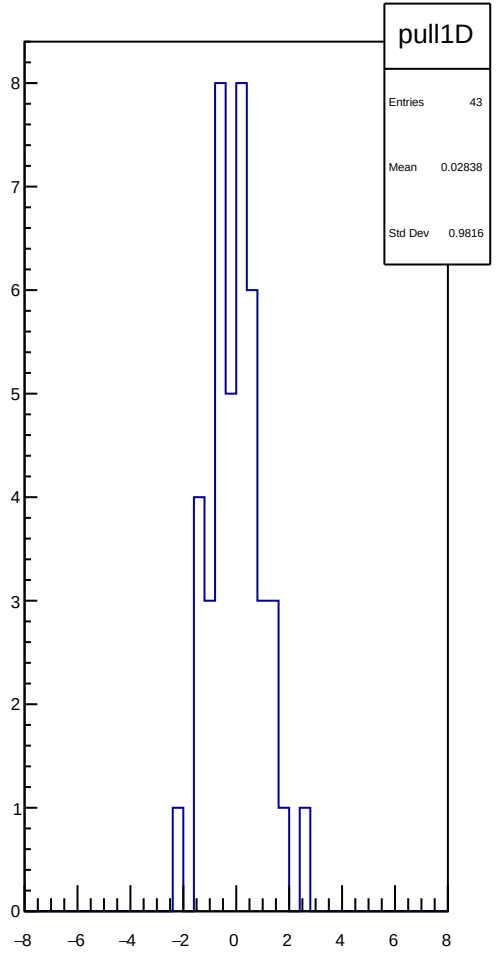

pull1D
Entries 43
Mean 0.02671
Std Dev 0.8585

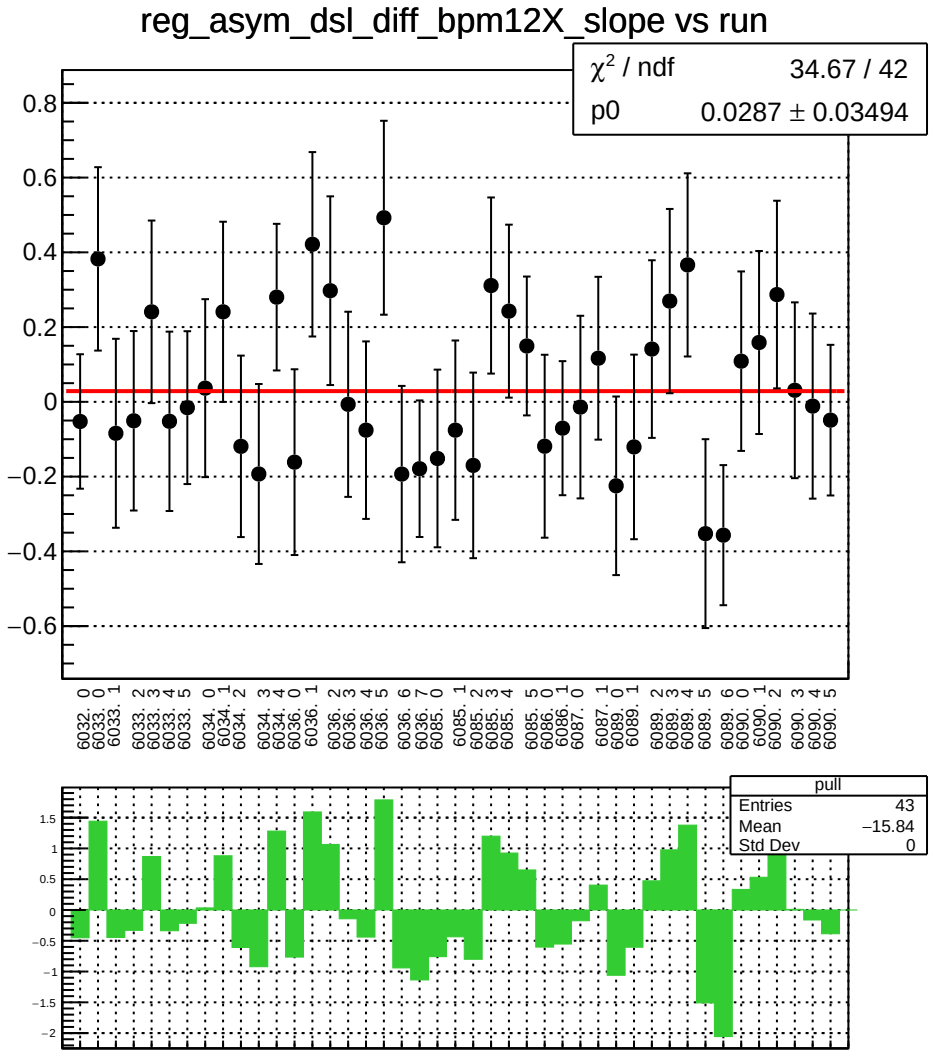

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 38.45 / 42
p0 0.1616 ± 0.3877
pull
Entries 43
Mean 24.29
Std Dev 0
pull1D
Entries 43
Mean −0.03132
Std Dev 0.9452

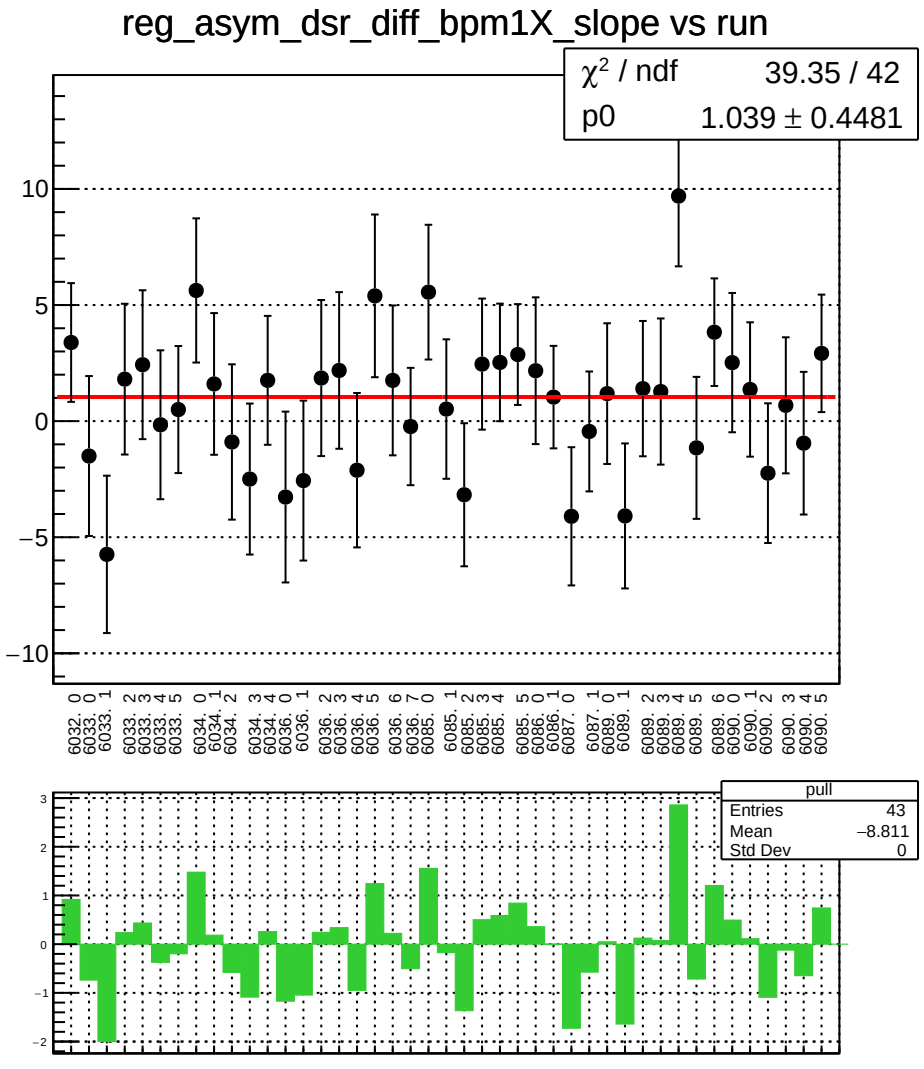

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 33.1 / 42
p0 −0.4062 ± 0.4239
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −5.388
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

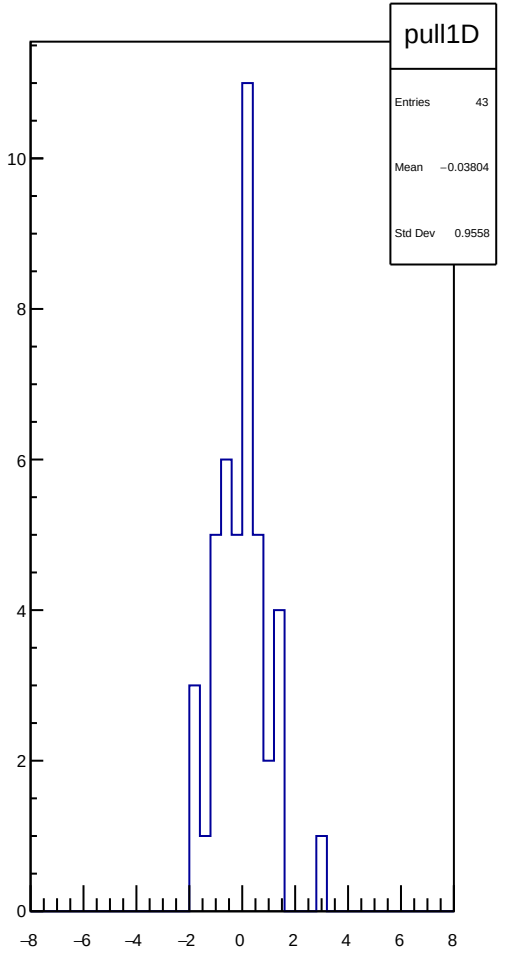

pull1D
Entries 43
Mean −0.03698
Std Dev 0.8765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

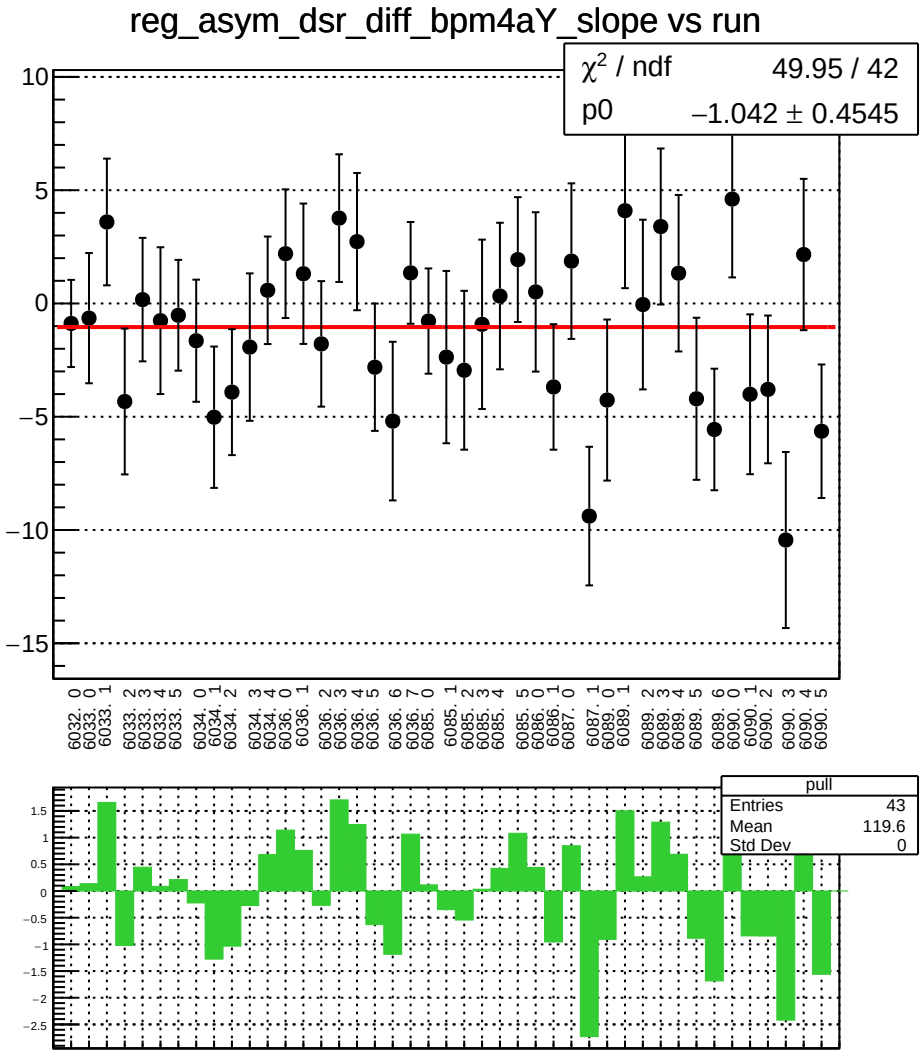

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 41.47 / 42
p0 −0.1278 ± 0.4197
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.1
Std Dev 0
2
1
0
−1
−2

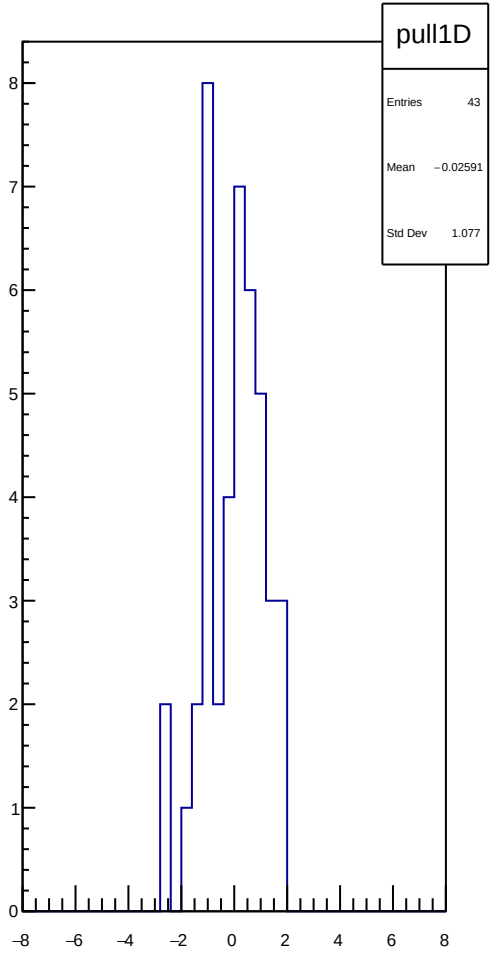

pull1D
Entries 43
Mean 0.02838
Std Dev 0.9816
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

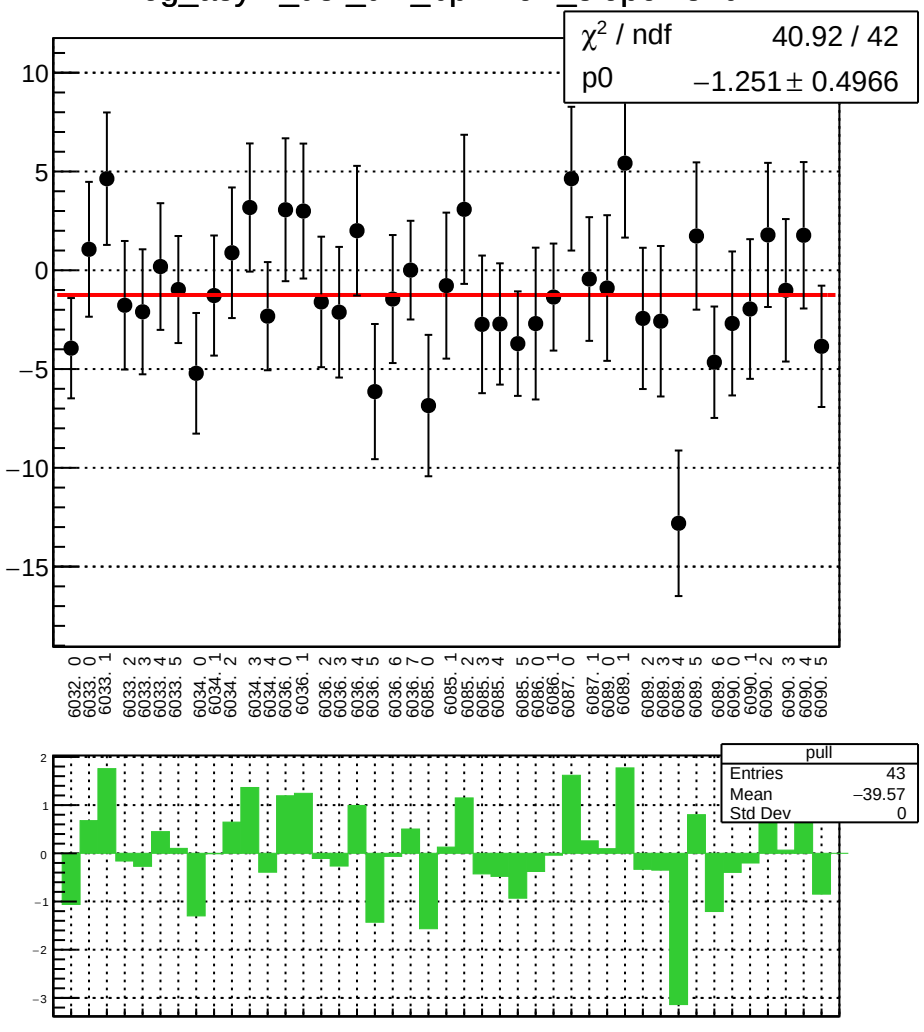

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 34.67 / 42
p0 0.0287 ± 0.03494
pull
Entries 43
Mean −15.84
Std Dev 0
pull1D
Entries 43
Mean 0.02381
Std Dev 0.8976

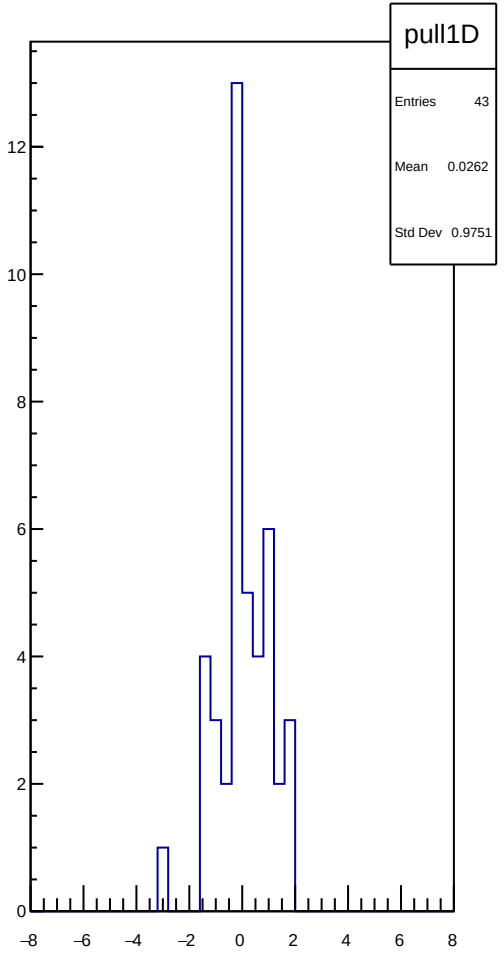

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 39.35 / 42
p0 1.039 ± 0.4481
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −8.811
Std Dev 0
3
2
1
0
−1
−2

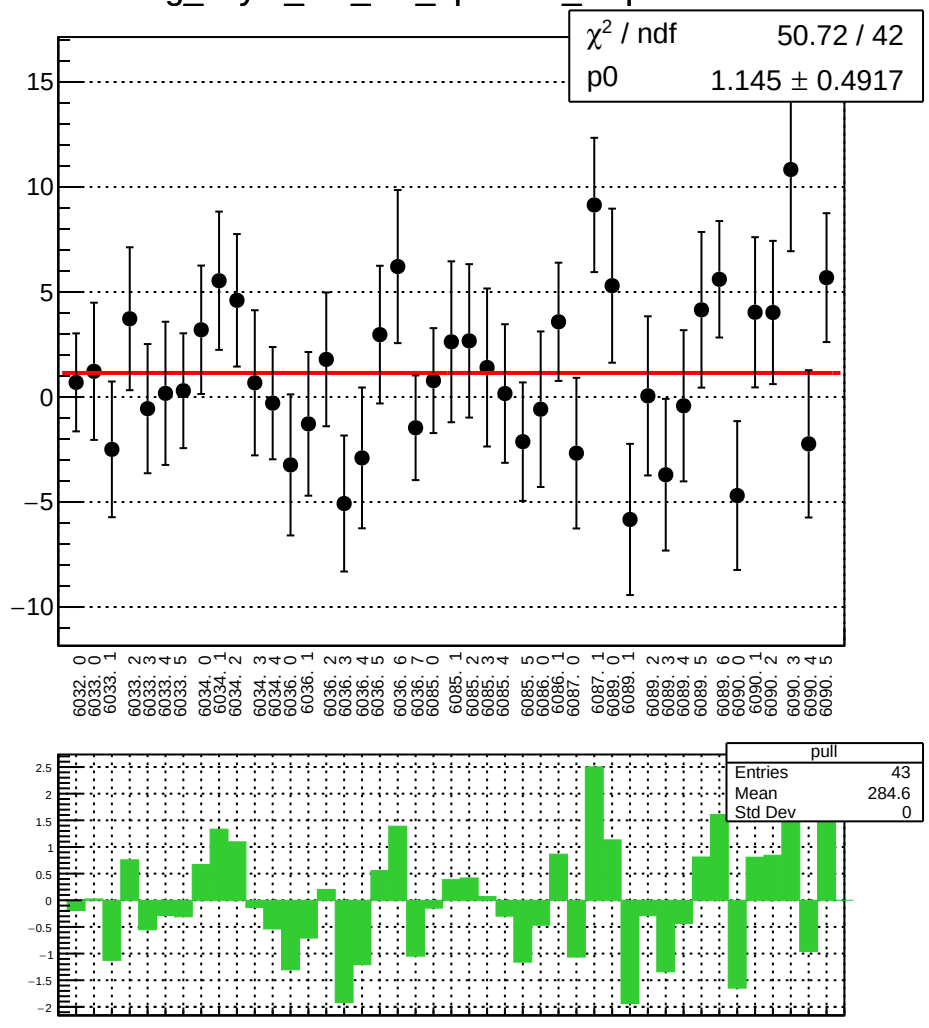

pull1D
Entries 43
Mean −0.03804
Std Dev 0.9558
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

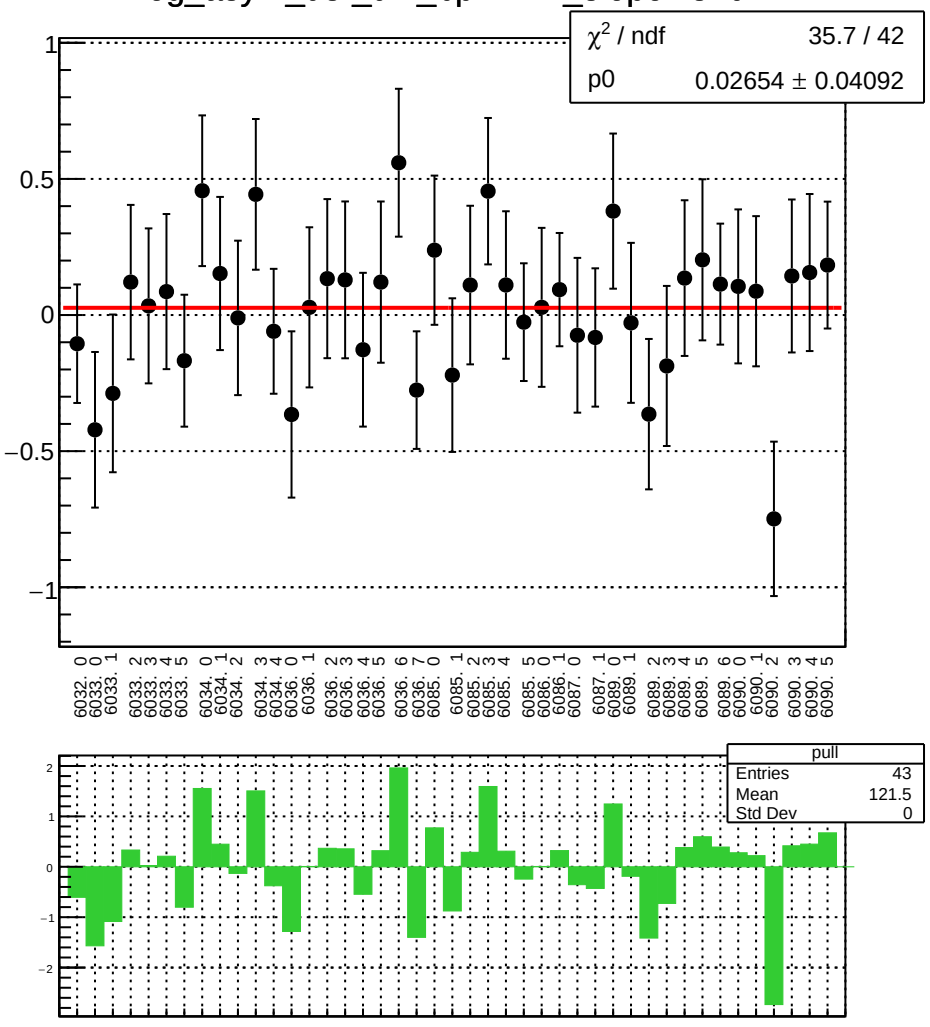

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 49.95 / 42
p0 −1.042 ± 0.4545
pull
Entries 43
Mean 119.6
Std Dev 0

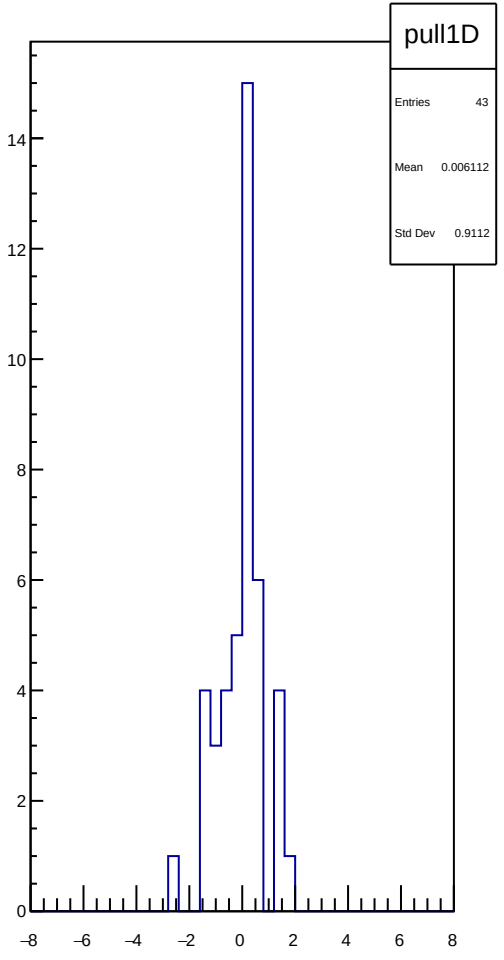

pull1D
Entries 43
Mean −0.02591
Std Dev 1.077

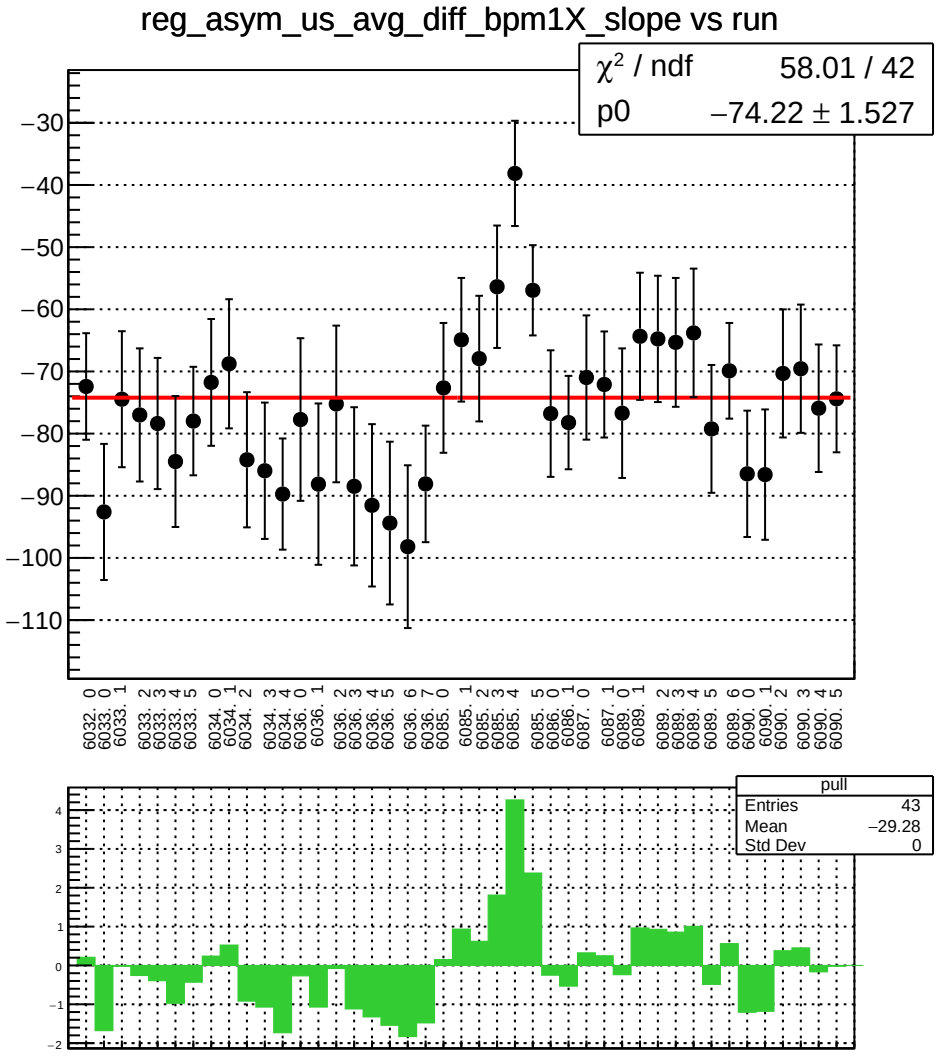

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 40.92 / 42
p0 −1.251 ± 0.4966
pull
Entries 43
Mean −39.57
Std Dev 0

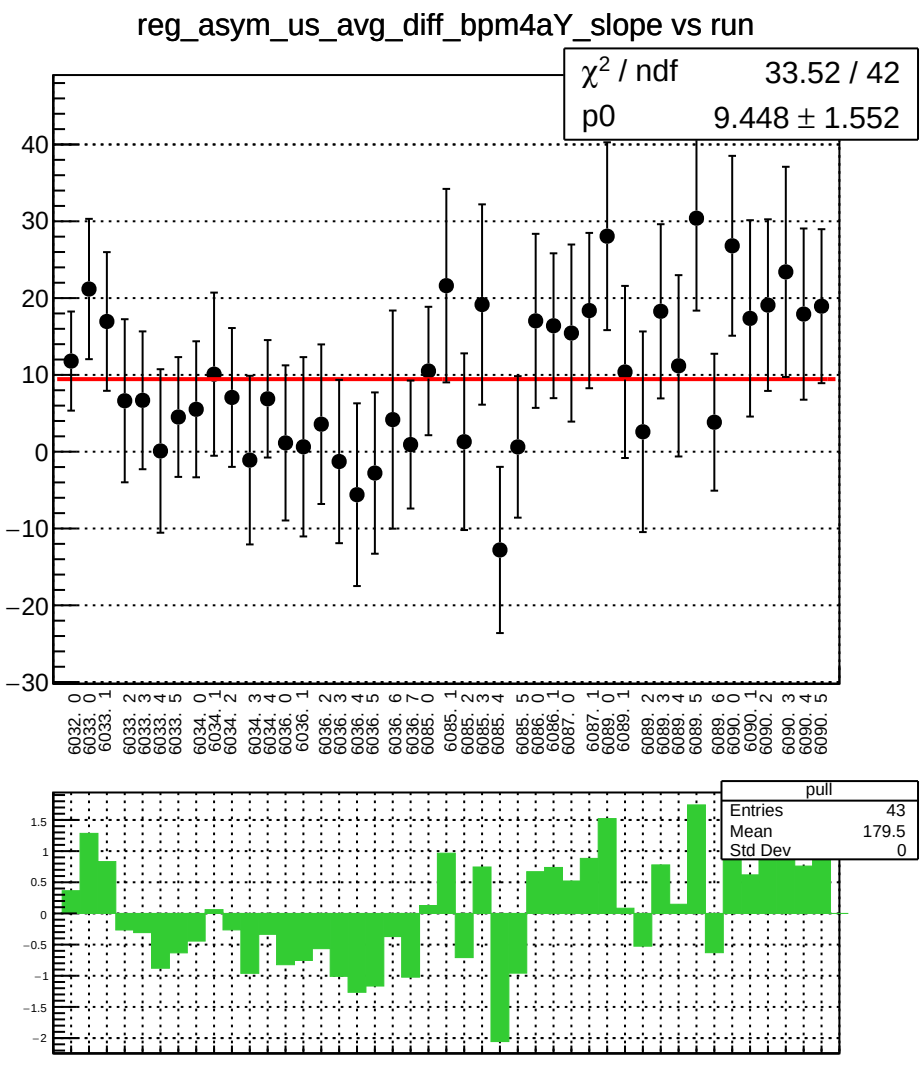

pull1D
Entries 43
Mean 0.0262
Std Dev 0.9751

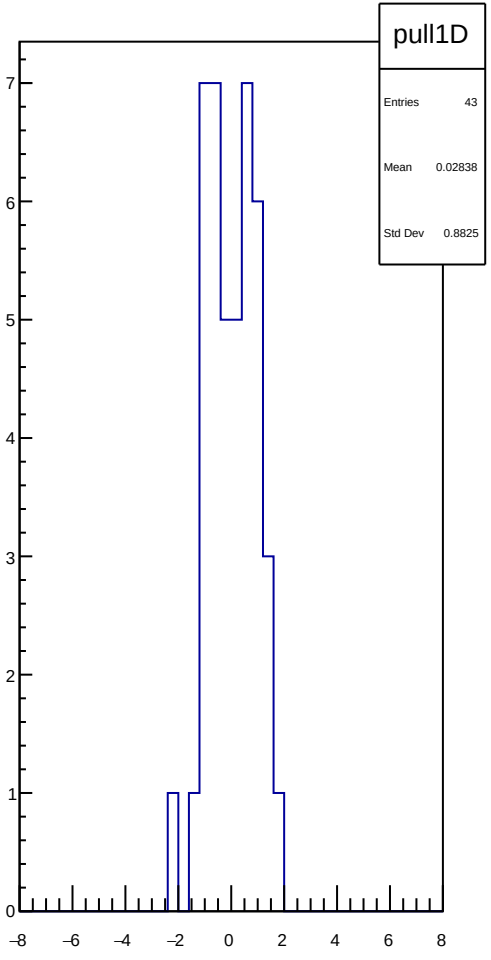

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 50.72 / 42
p0 1.145 ± 0.4917
15
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 284.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.008821
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

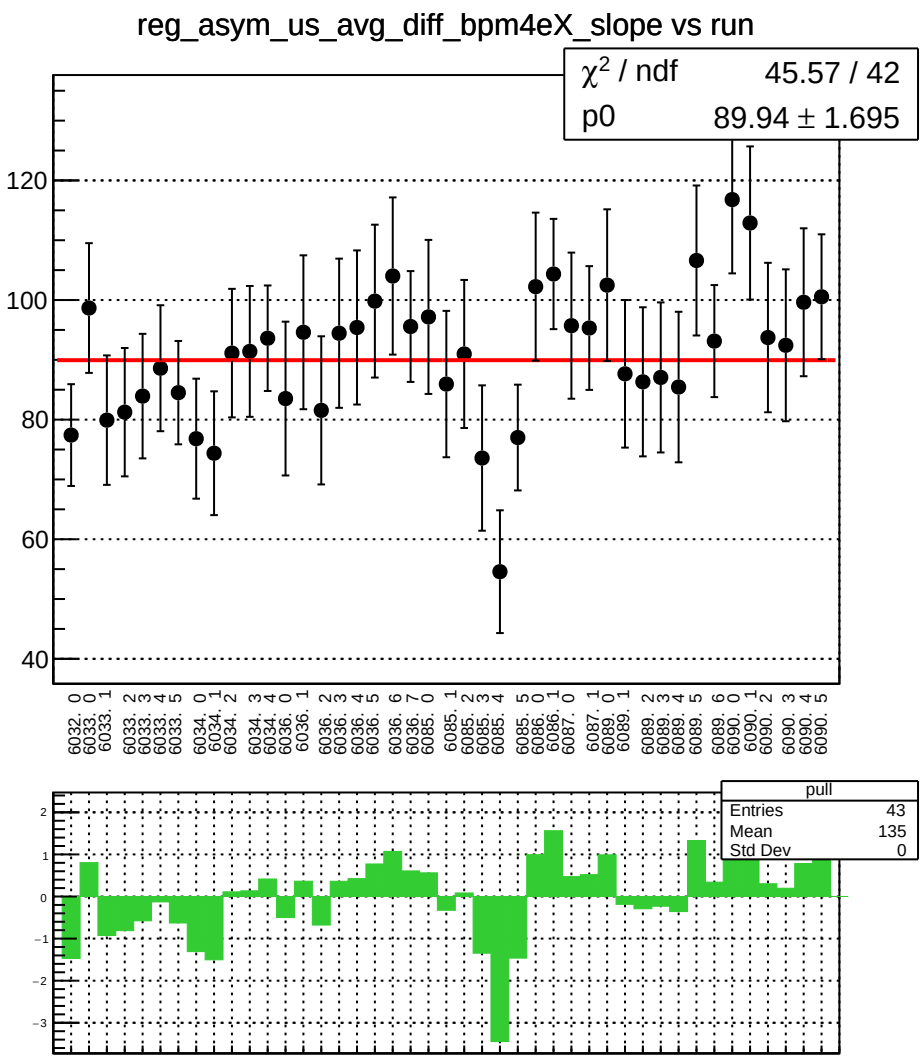

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 35.7 / 42
p0 0.02654 ± 0.04092
pull
Entries 43
Mean 121.5
Std Dev 0

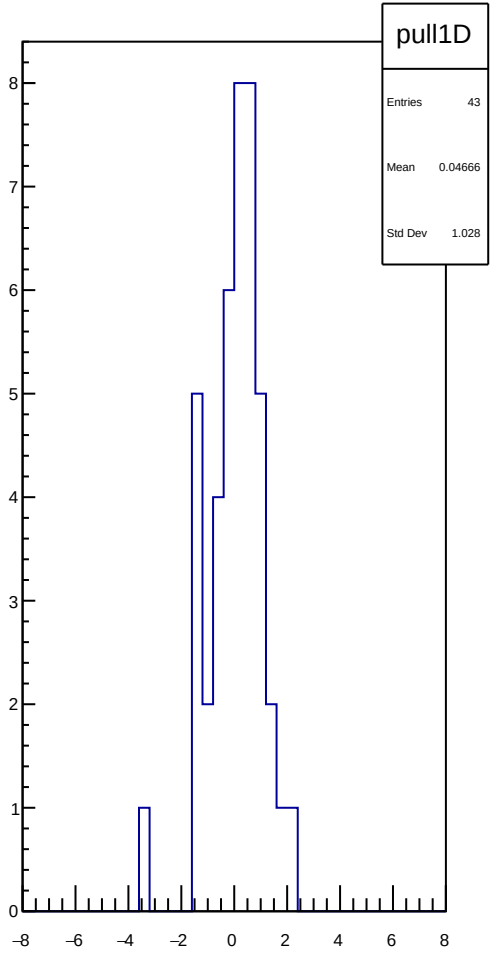

pull1D
Entries 43
Mean 0.006112
Std Dev 0.9112

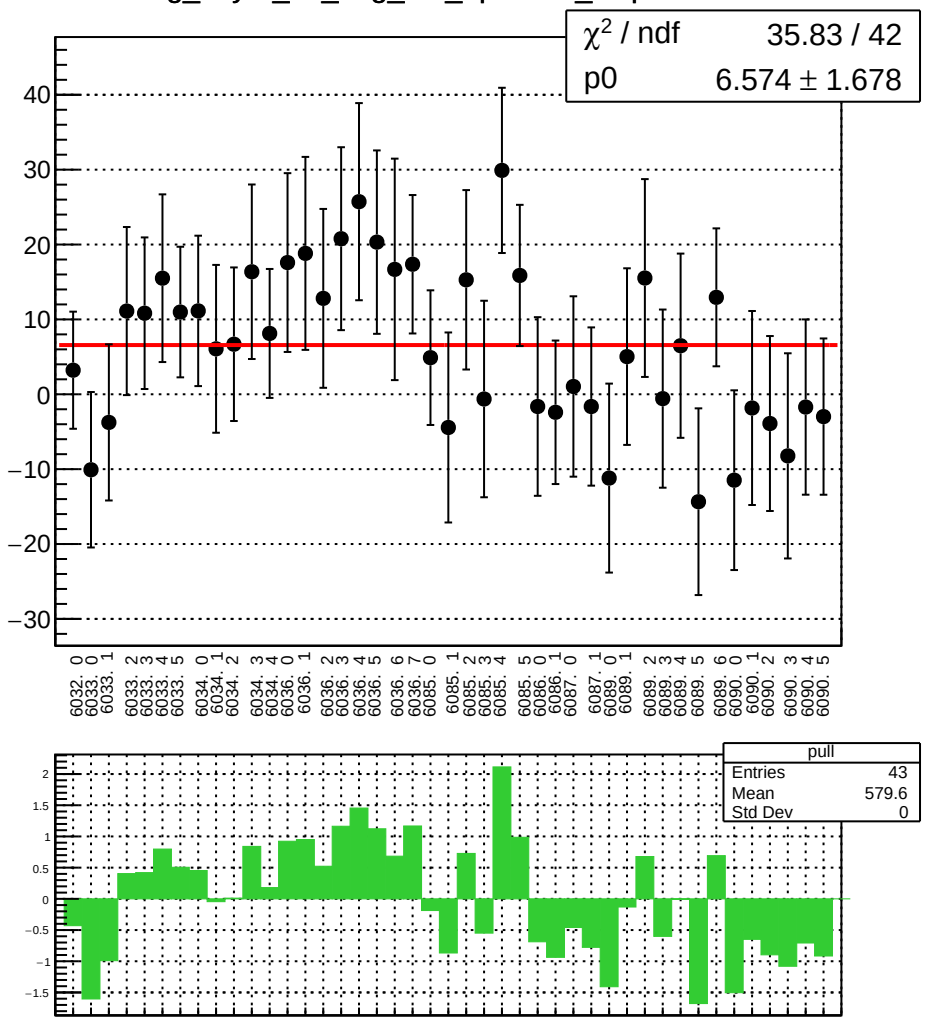

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 58.01 / 42
p0 −74.22 ± 1.527
pull
Entries 43
Mean −29.28
Std Dev 0
pull1D
Entries 43
Mean −0.07956
Std Dev 1.159

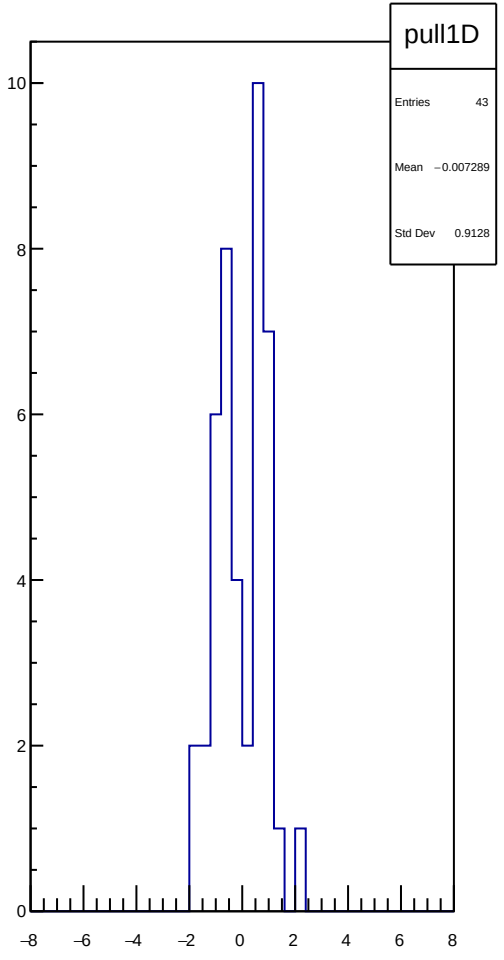

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.52 / 42
p0 9.448 ± 1.552
pull
Entries 43
Mean 179.5
Std Dev 0

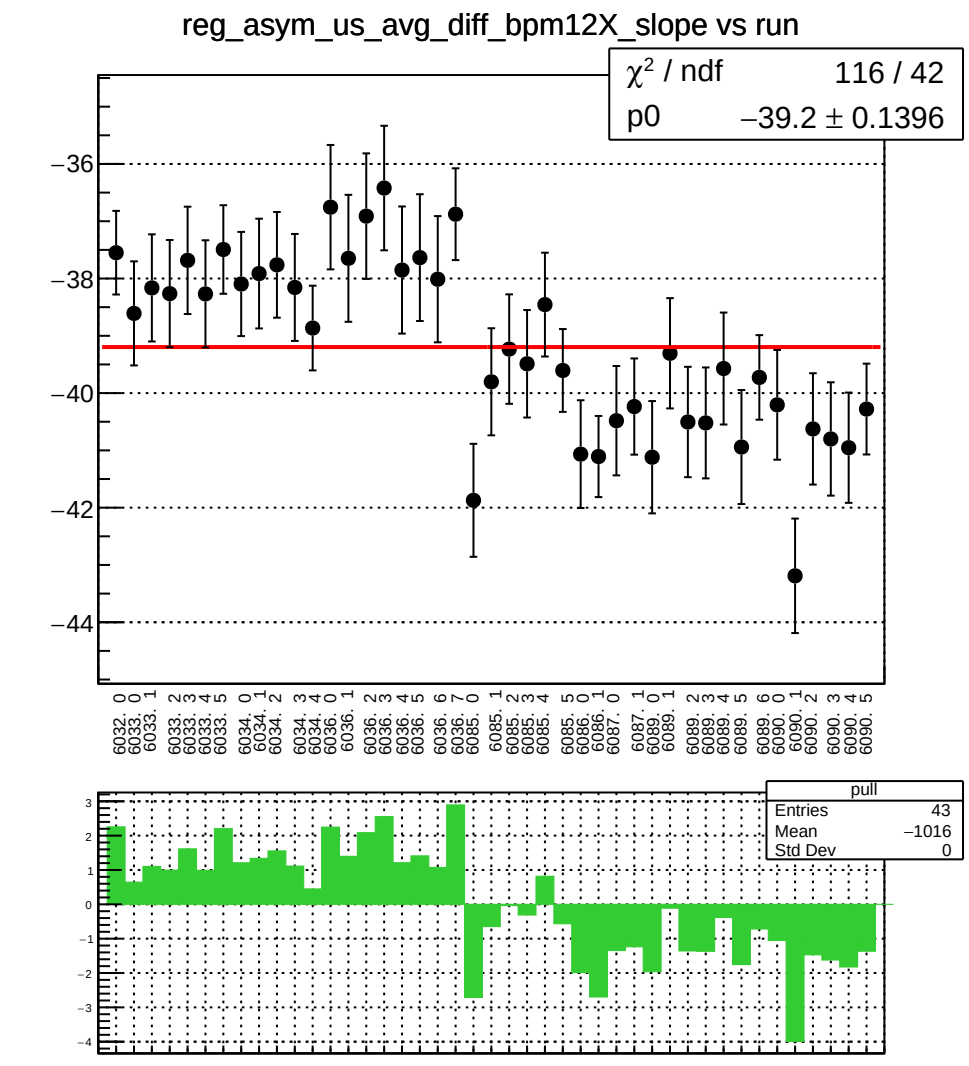

pull1D
Entries 43
Mean 0.02838
Std Dev 0.8825

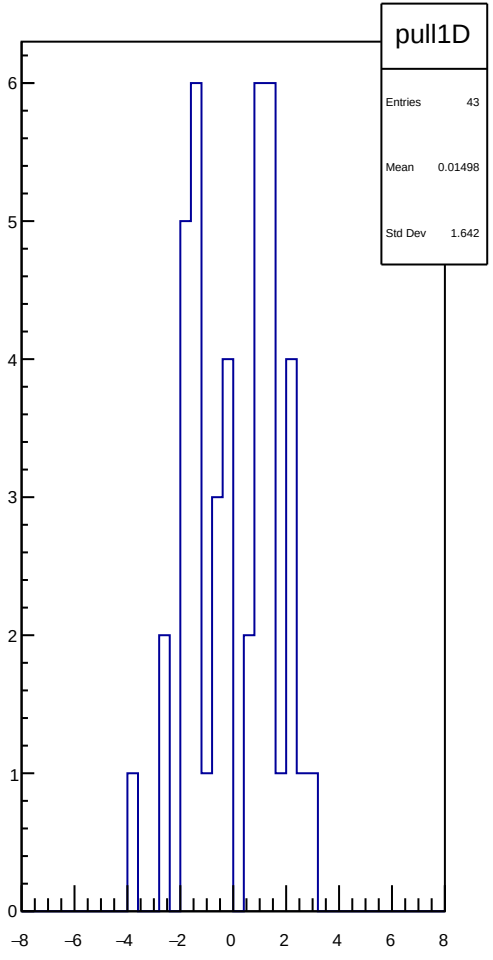

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.57 / 42
p0 89.94 ± 1.695
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 135
Std Dev 0
2
1
0
−1
−2
−3

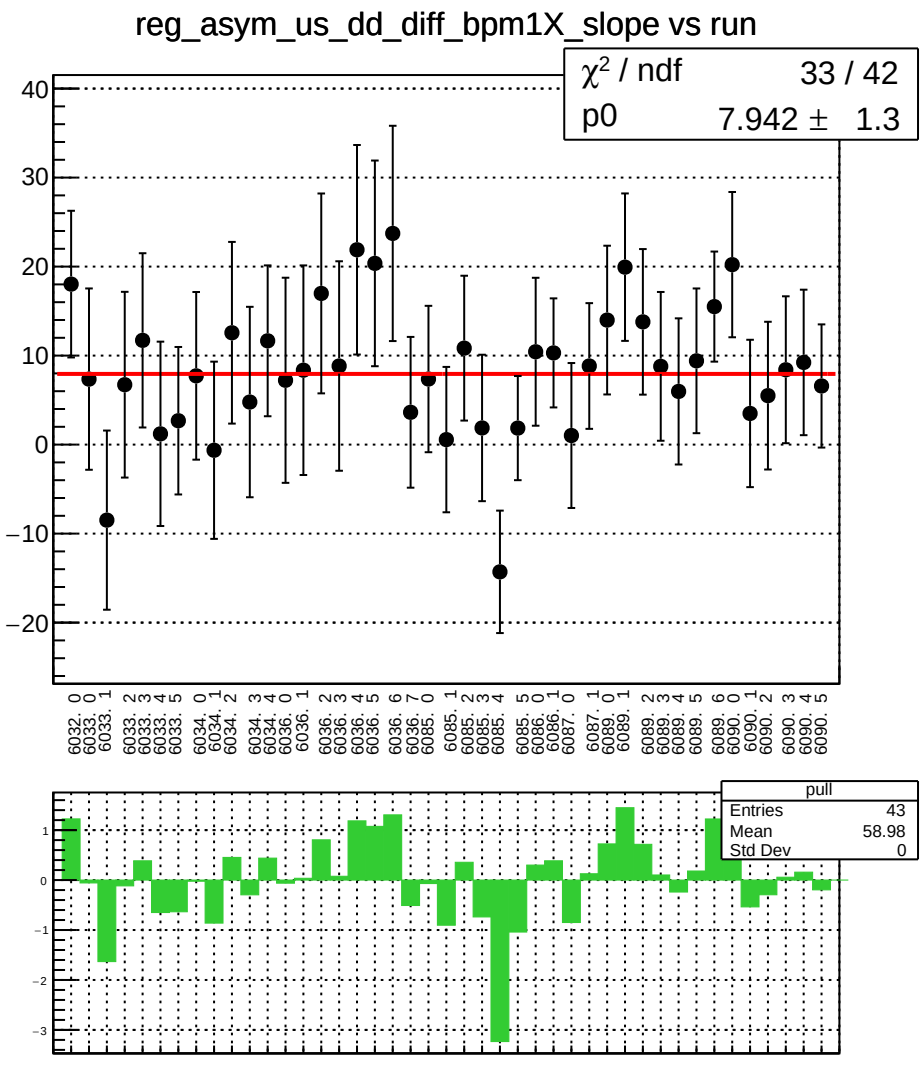

pull1D
Entries 43
Mean 0.04666
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

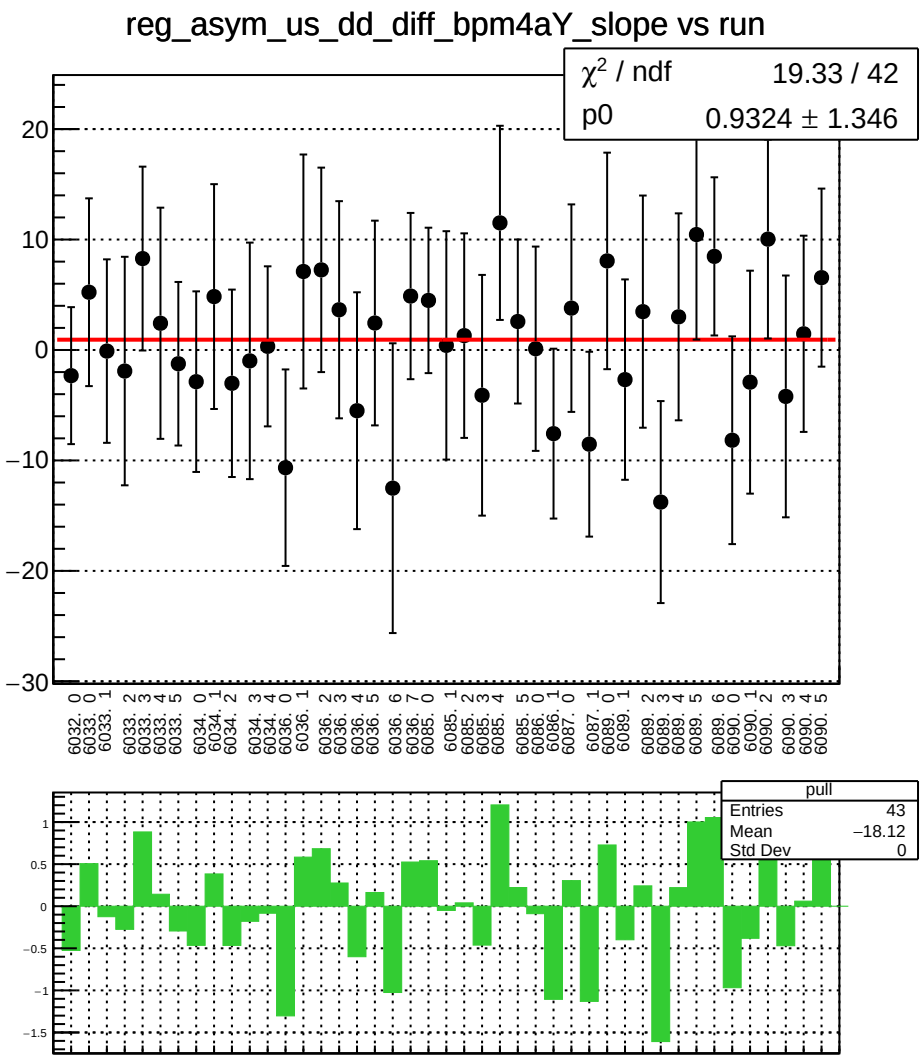

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.83 / 42
p0 6.574 ± 1.678
pull
Entries 43
Mean 579.6
Std Dev 0

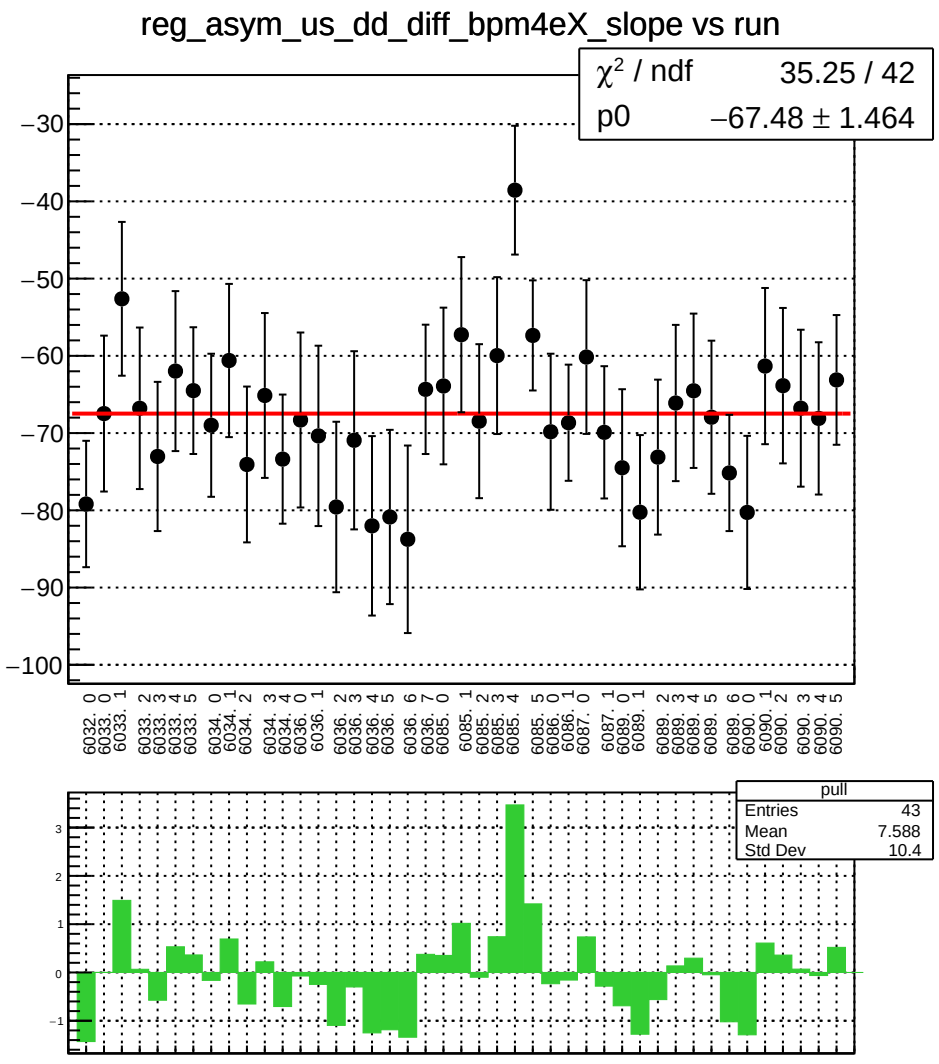

pull1D
Entries 43
Mean −0.007289
Std Dev 0.9128

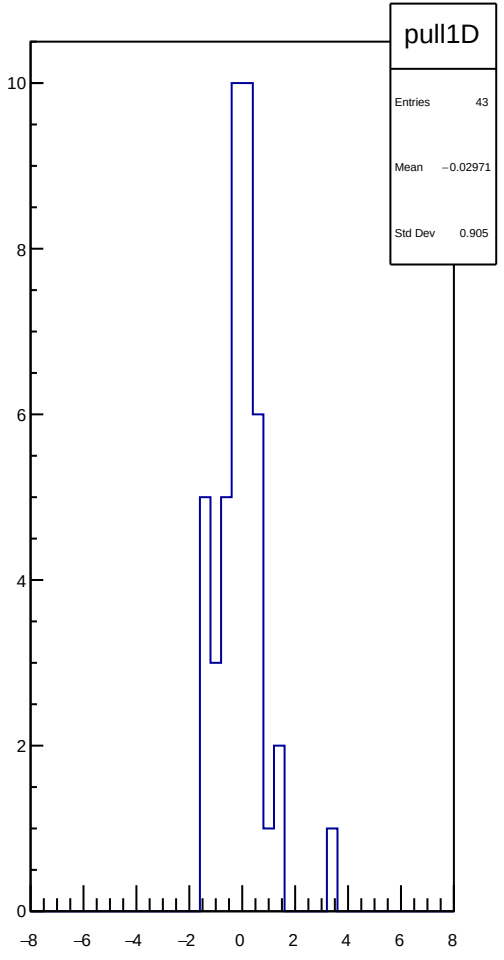

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 116 / 42
p0 −39.2 ± 0.1396
−36
−38
−40
−42
−44
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1016
Std Dev 0
3
2
1
0
−1
−2
−3
−4

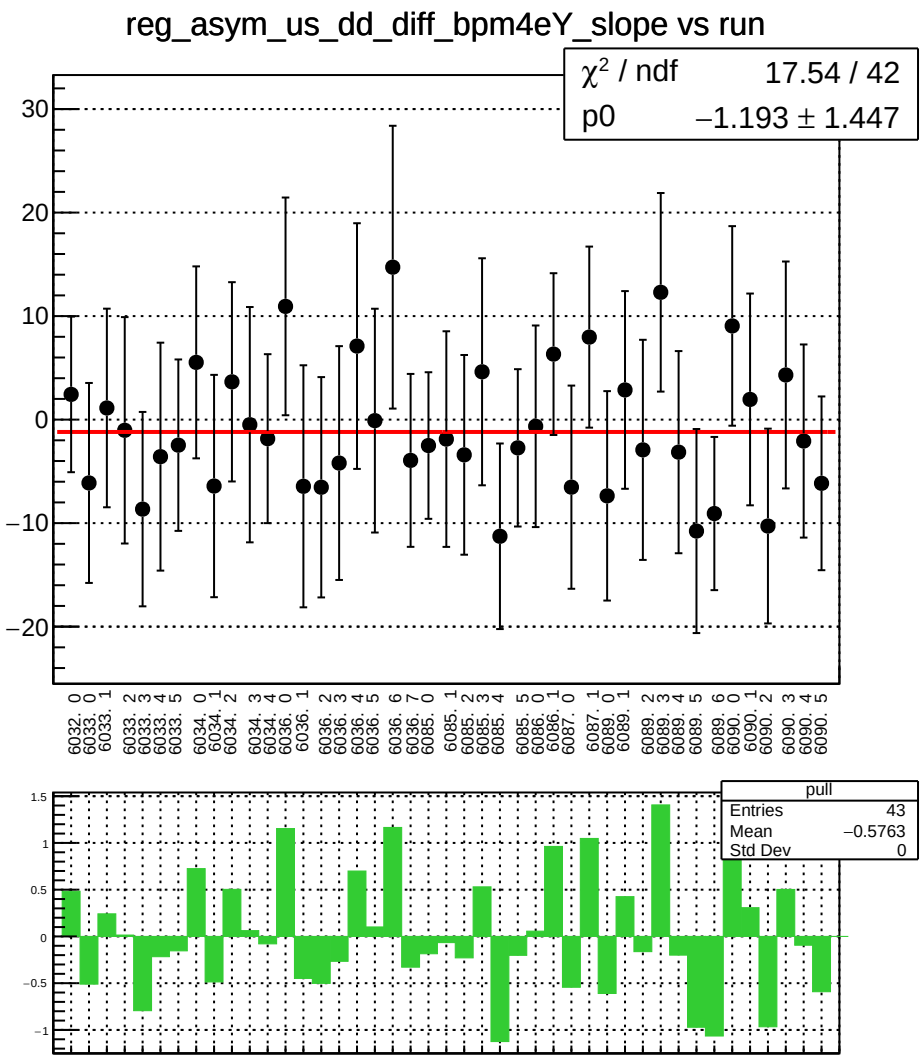

pull1D
Entries 43
Mean 0.01498
Std Dev 1.642
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

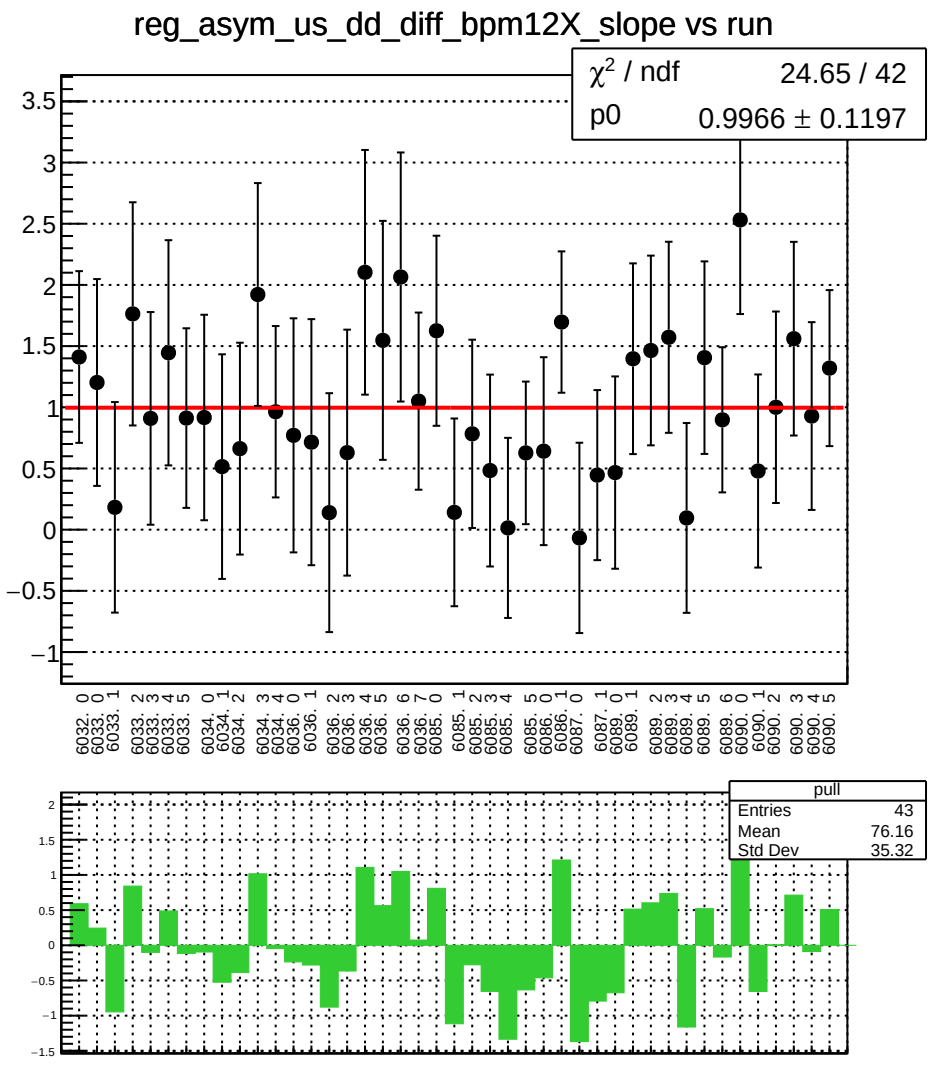

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 33 / 42
p0 7.942 ± 1.3
pull
Entries 43
Mean 58.98
Std Dev 0
pull1D
Entries 43
Mean 0.03071
Std Dev 0.8755

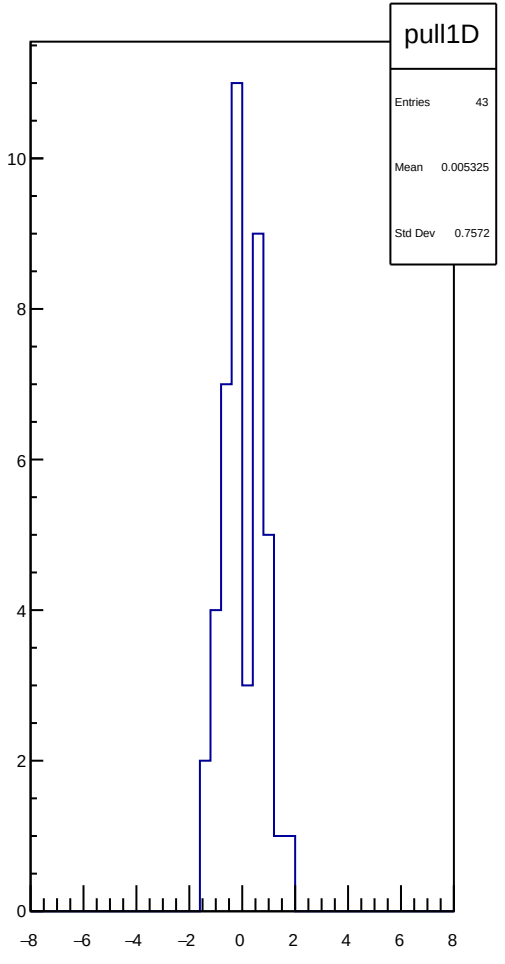

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.33 / 42
p0 0.9324 ± 1.346
pull
Entries 43
Mean −18.12
Std Dev 0
pull1D
Entries 43
Mean −0.0124
Std Dev 0.6704

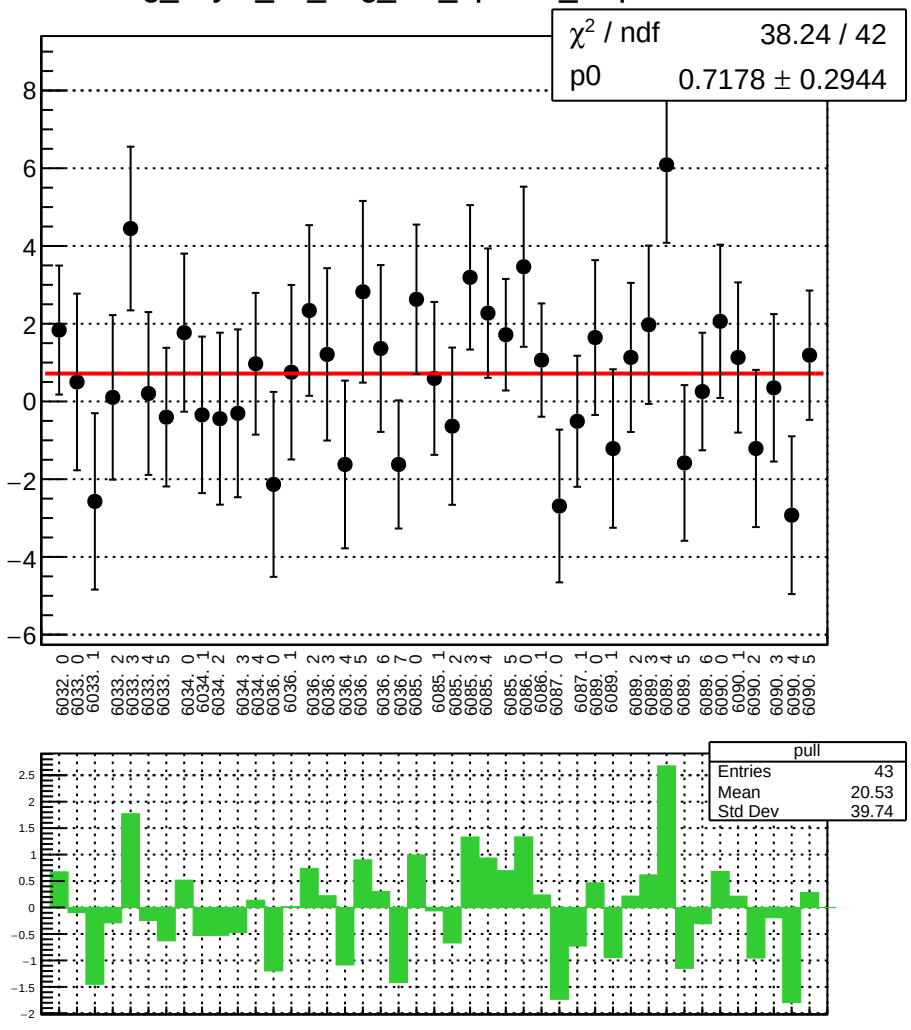

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.25 / 42
p0 −67.48 ± 1.464
pull
Entries 43
Mean 7.588
Std Dev 10.4

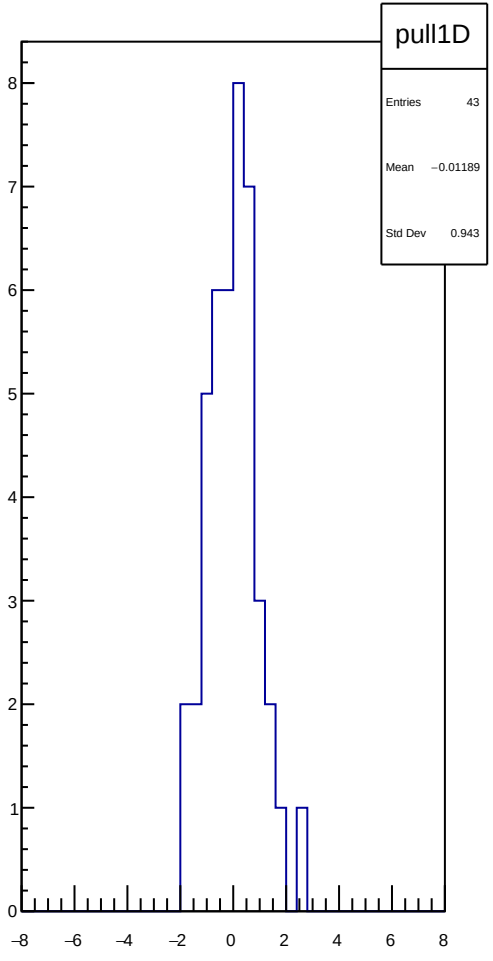

pull1D
Entries 43
Mean −0.02971
Std Dev 0.905

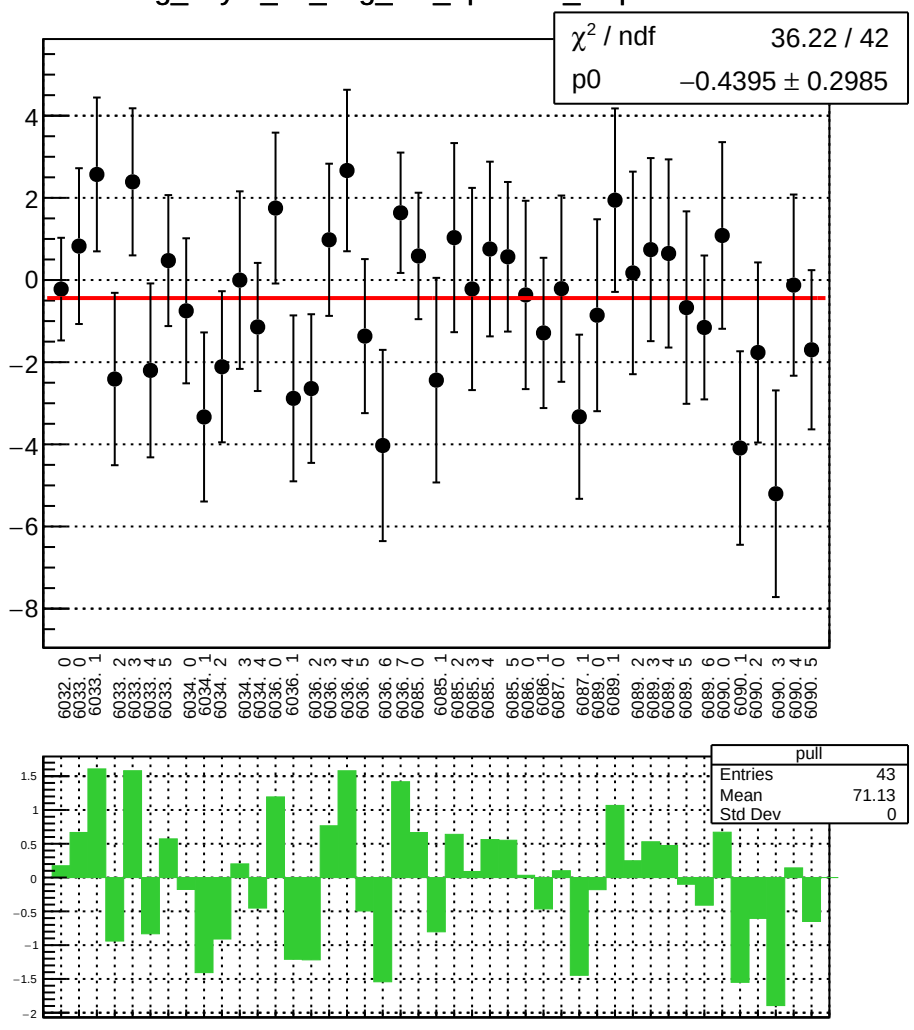

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 42
p0 −1.193 ± 1.447
30
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −0.5763
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01522
Std Dev 0.6385
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

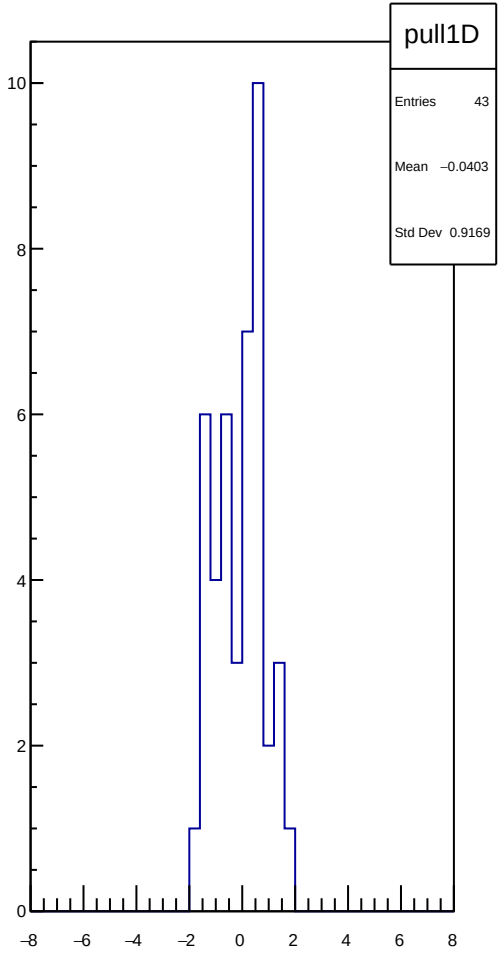

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 24.65 / 42
p0 0.9966 ± 0.1197
pull
Entries 43
Mean 76.16
Std Dev 35.32

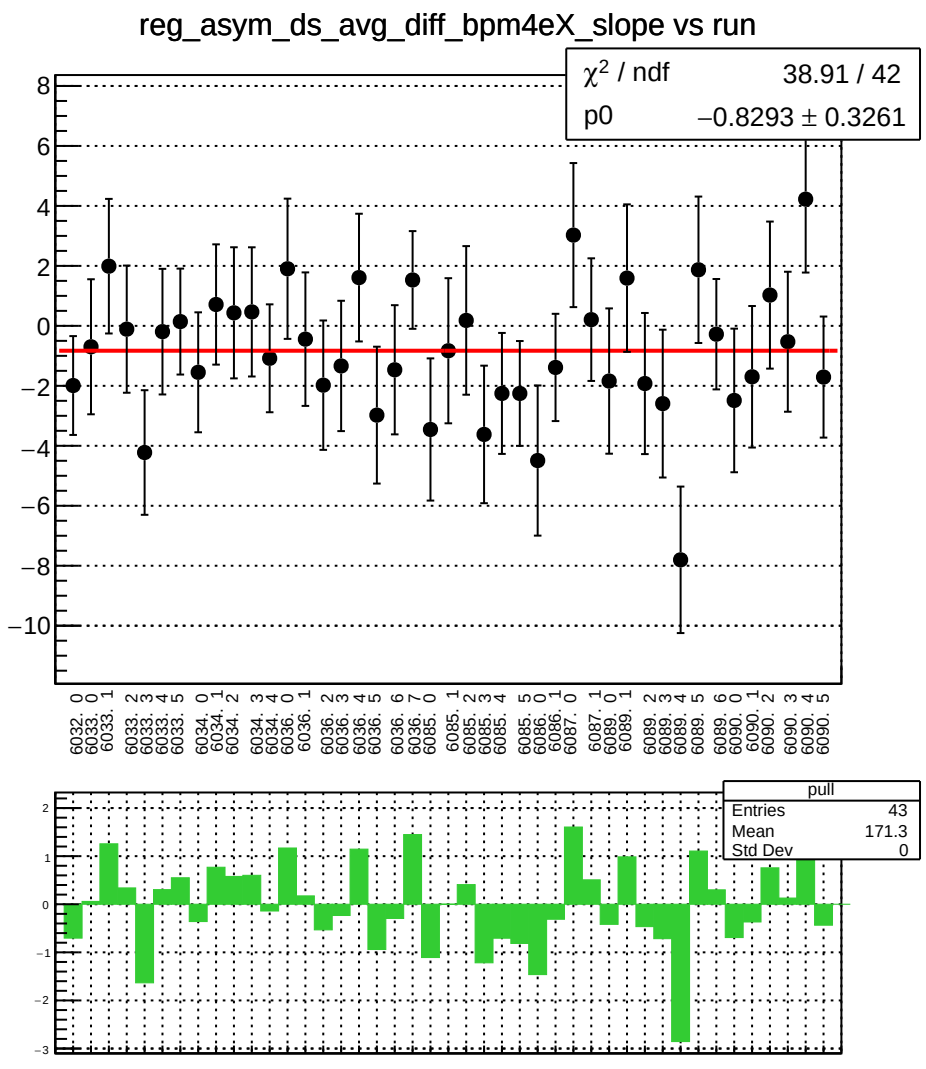

pull1D
Entries 43
Mean 0.005325
Std Dev 0.7572

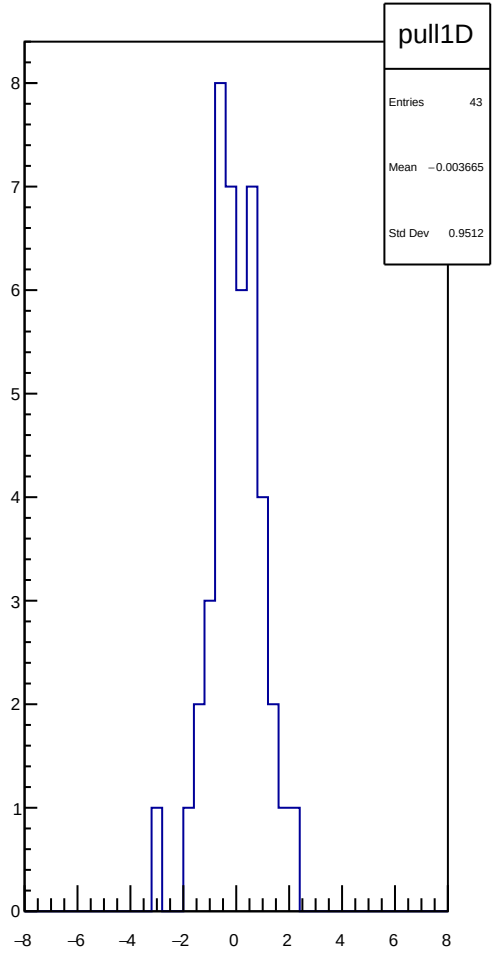

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 38.24 / 42
p0 0.7178 ± 0.2944
pull
Entries 43
Mean 20.53
Std Dev 39.74

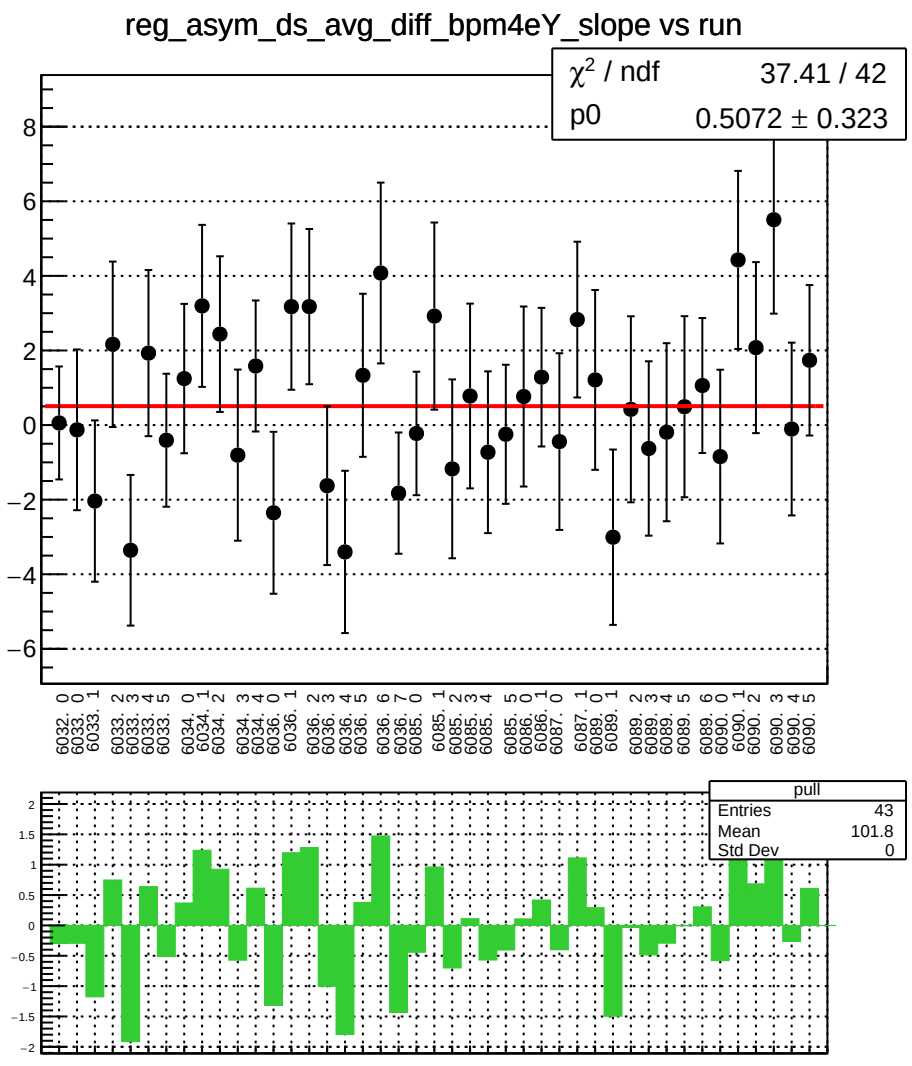

pull1D
Entries 43
Mean −0.01189
Std Dev 0.943

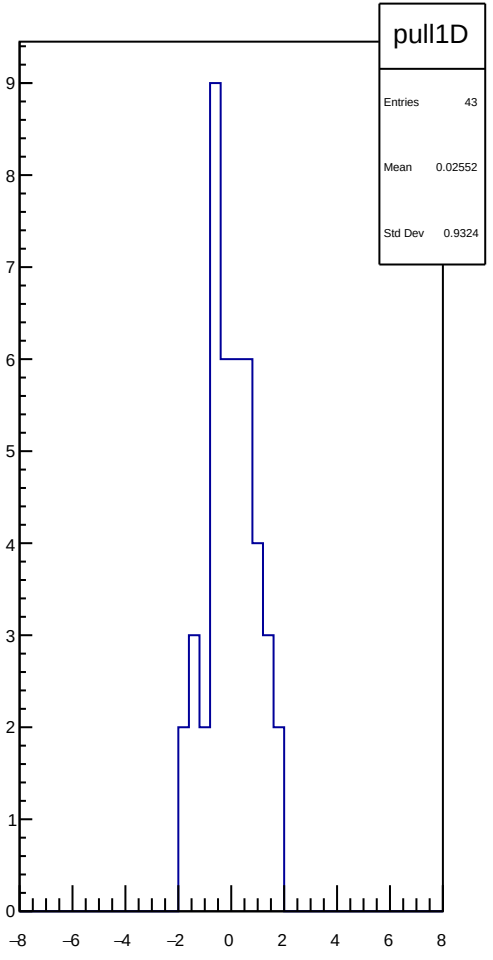

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.22 / 42
p0 −0.4395 ± 0.2985
pull
Entries 43
Mean 71.13
Std Dev 0

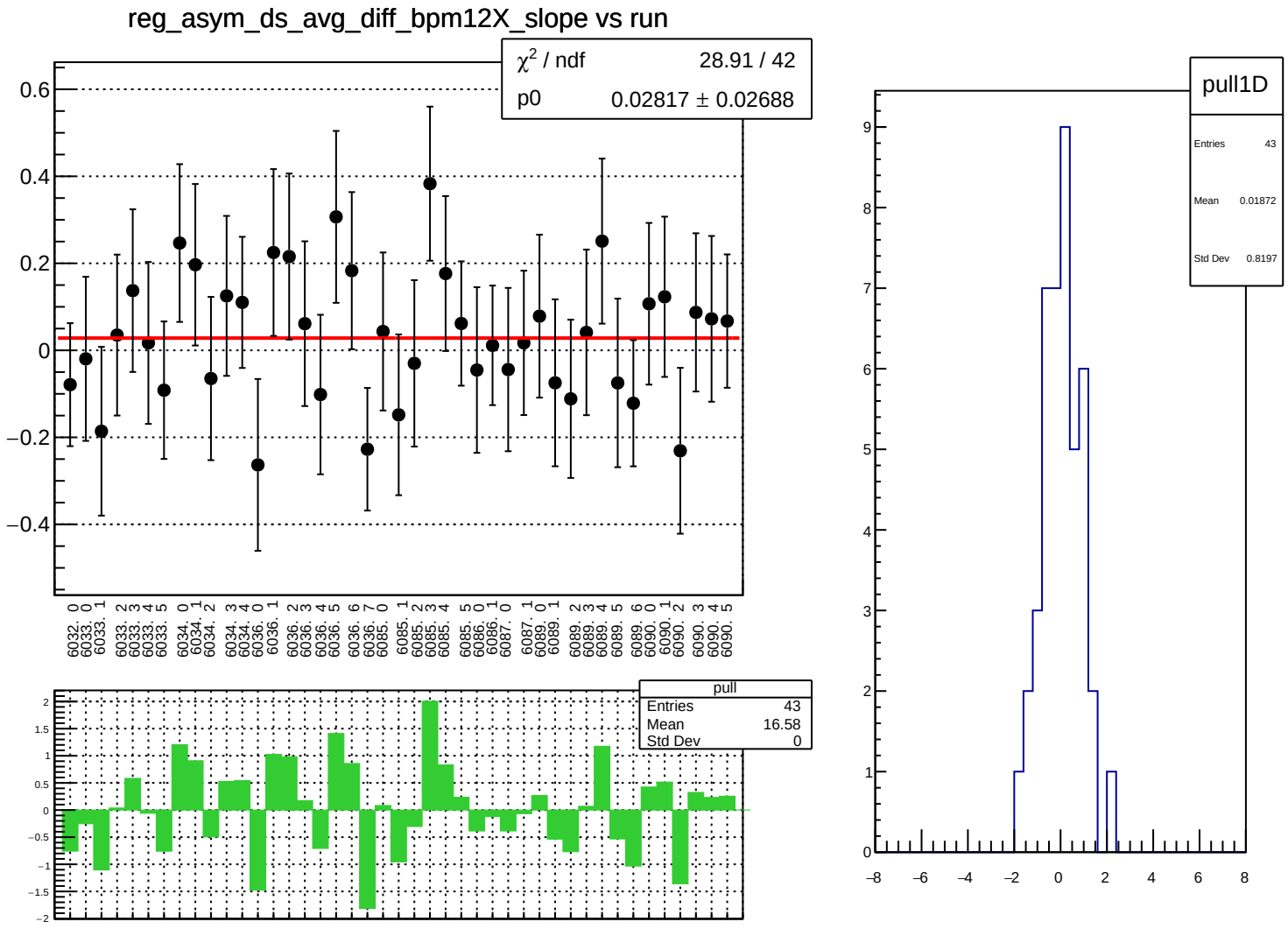

pull1D
Entries 43
Mean −0.0403
Std Dev 0.9169

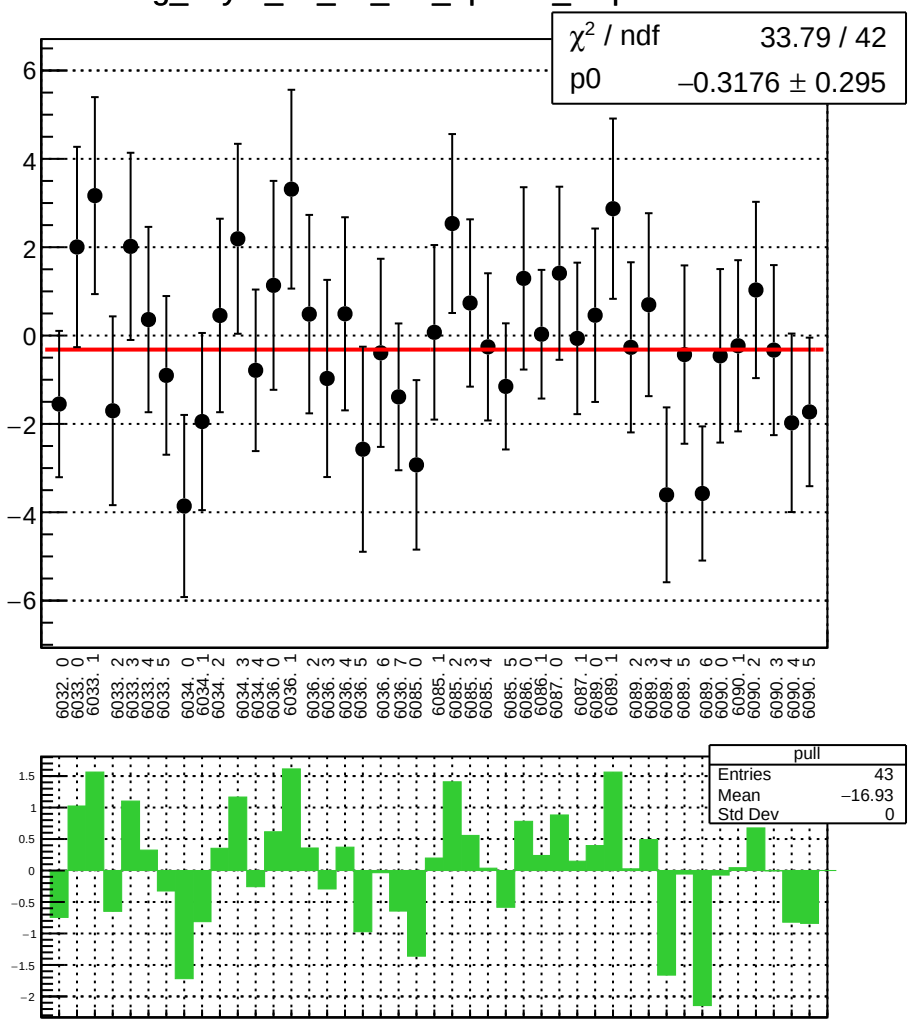

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.91 / 42
p0 −0.8293 ± 0.3261
pull
Entries 43
Mean 171.3
Std Dev 0

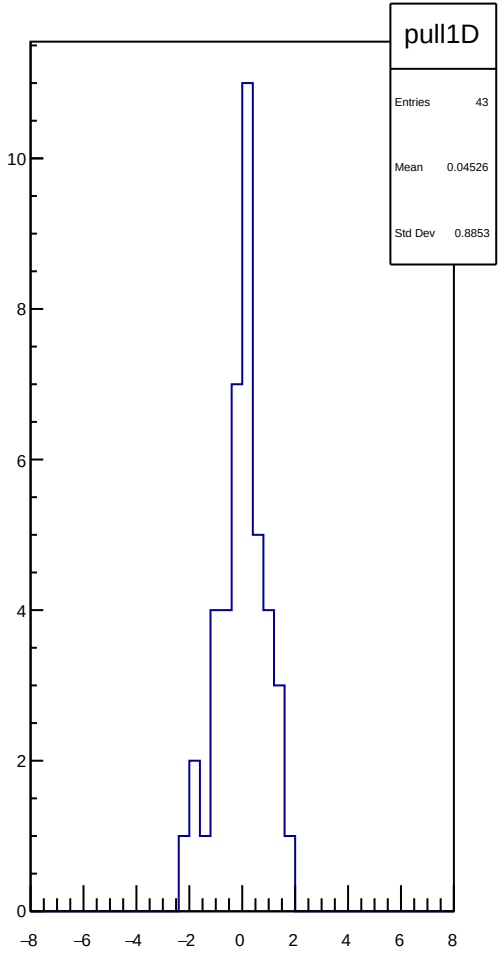

pull1D
Entries 43
Mean −0.003665
Std Dev 0.9512

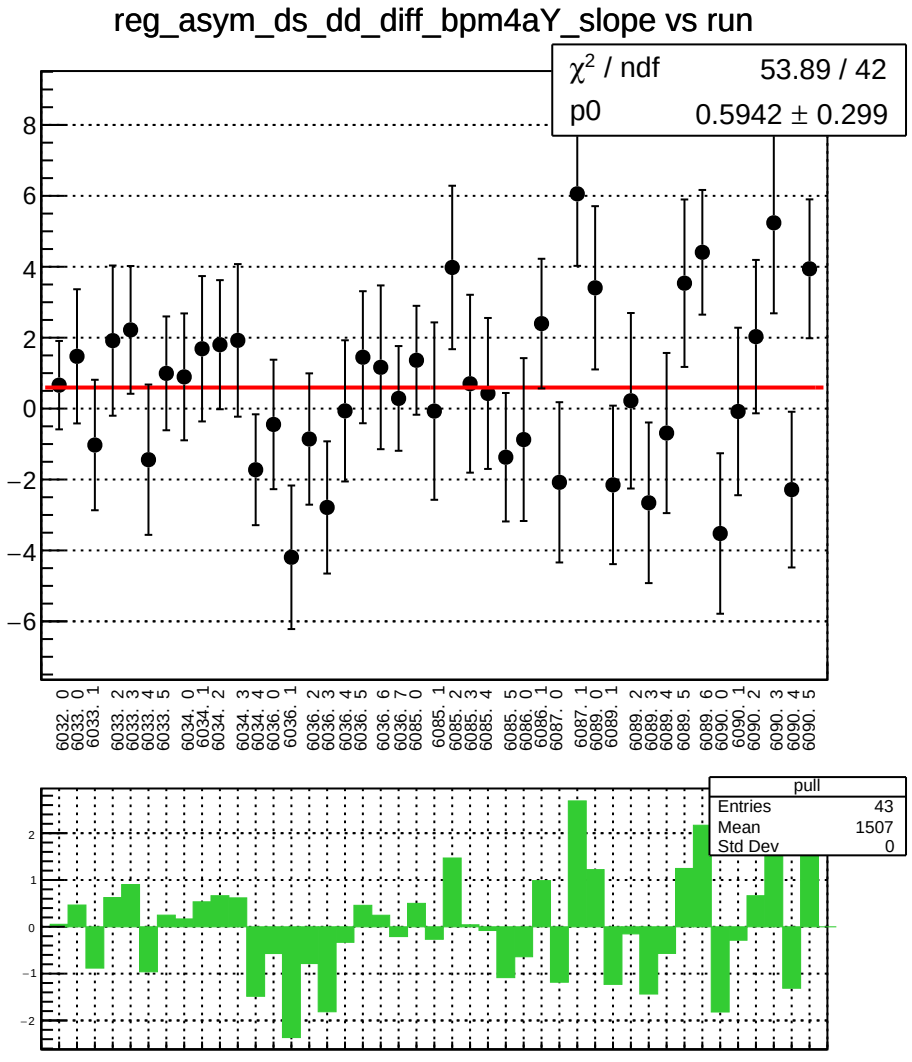

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.41 / 42
p0 0.5072 ± 0.323
pull
Entries 43
Mean 101.8
Std Dev 0

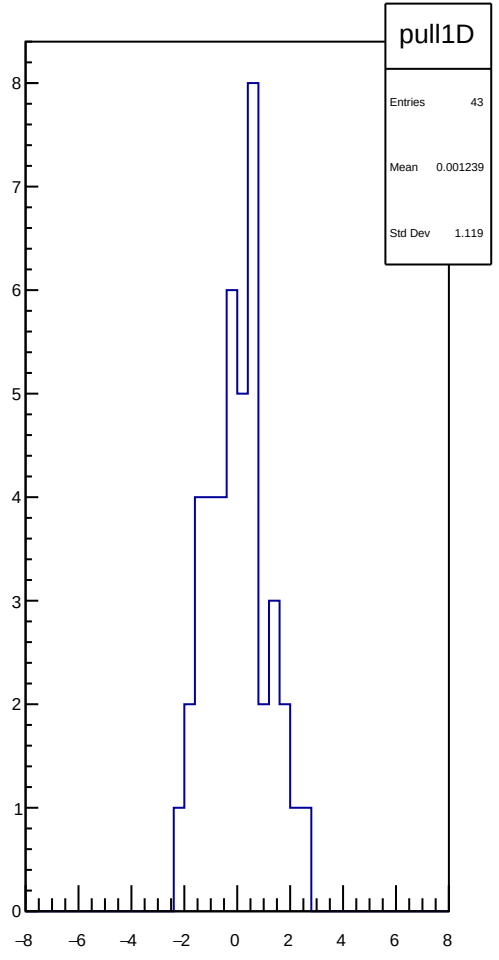

pull1D
Entries 43
Mean 0.02552
Std Dev 0.9324

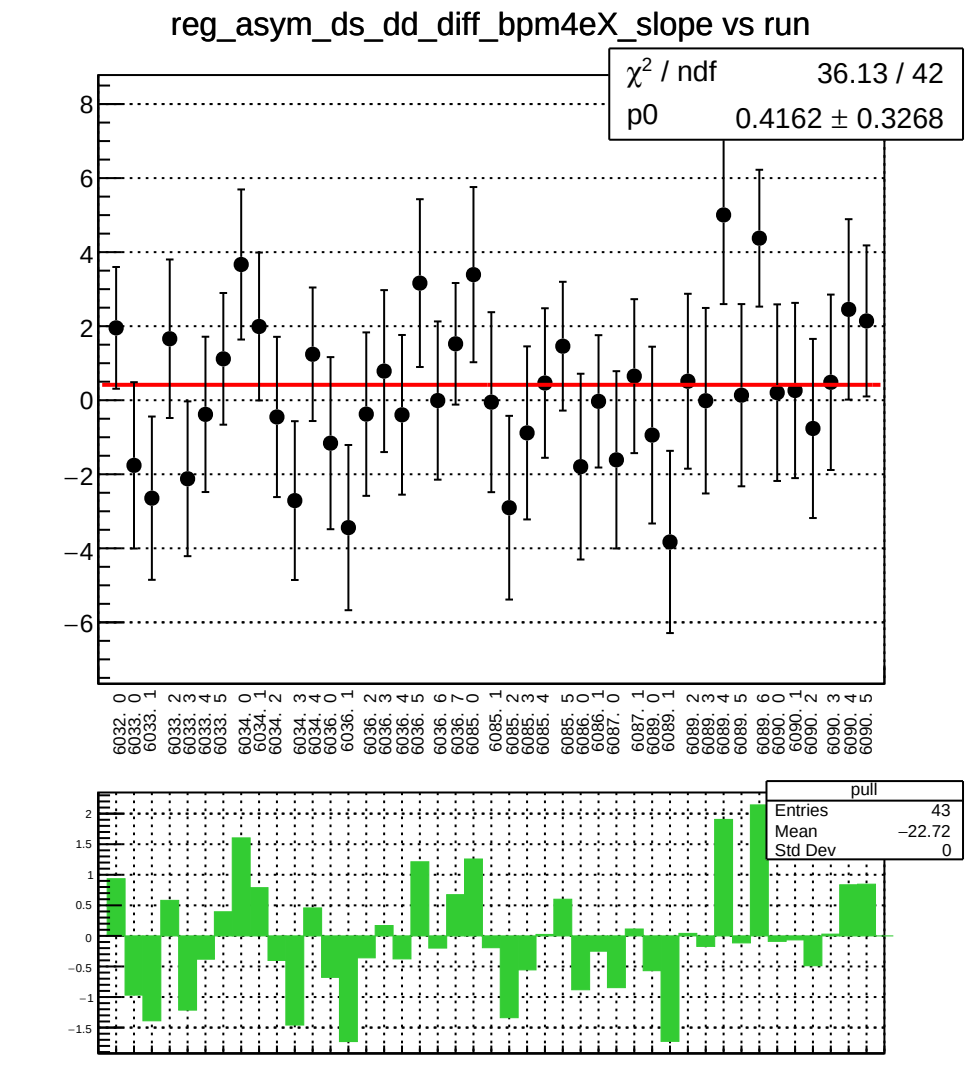

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 28.91 / 42
p0 0.02817 ± 0.02688
0.6
0.4
0.2
0
−0.2
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01872
Std Dev 0.8197
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

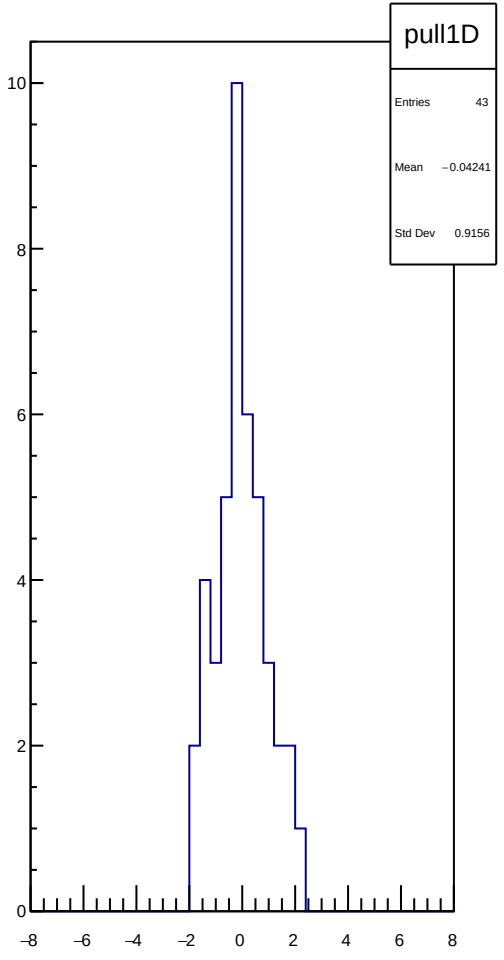

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 33.79 / 42
p0 −0.3176 ± 0.295
pull
Entries 43
Mean −16.93
Std Dev 0

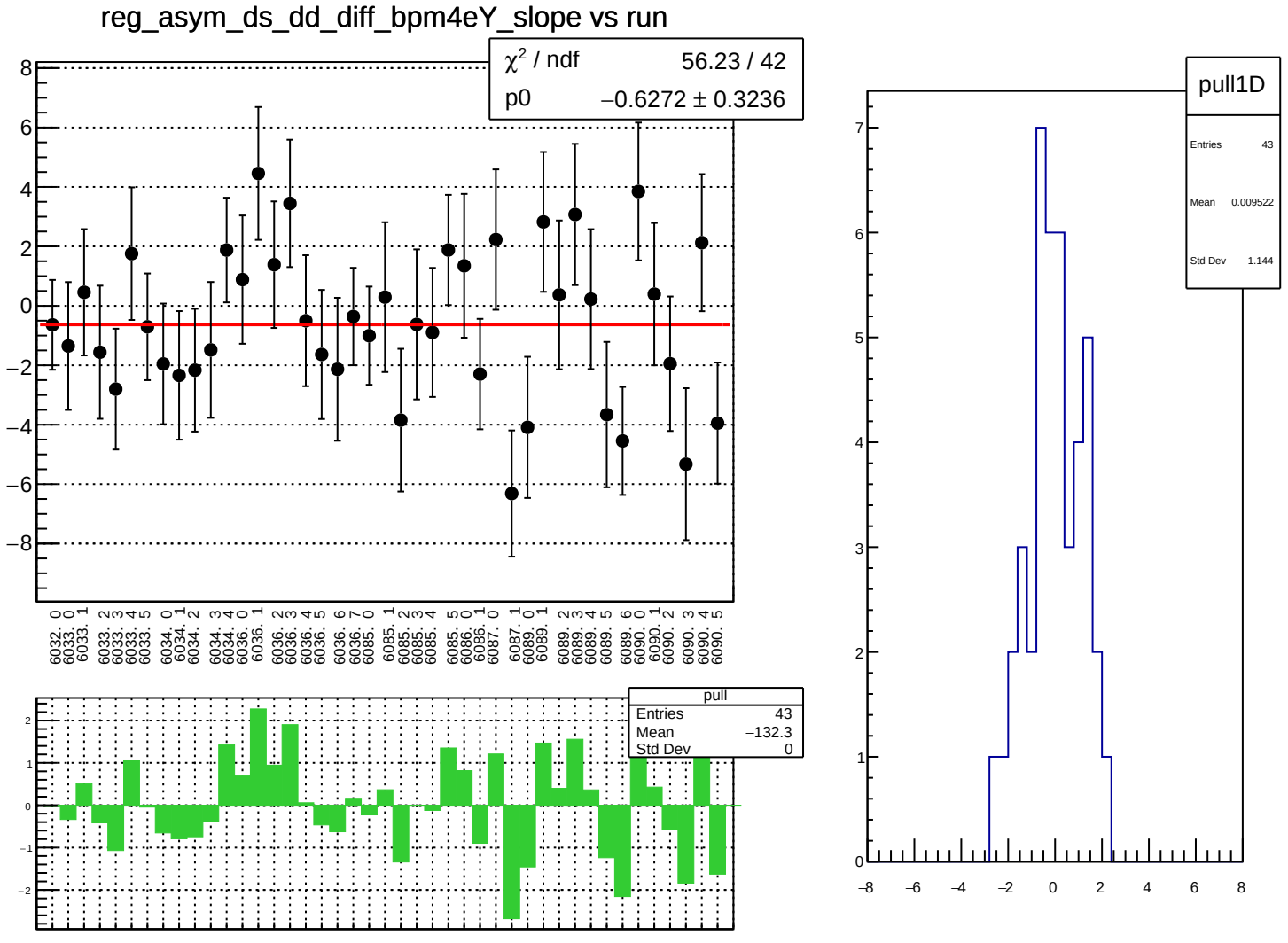

pull1D
Entries 43
Mean 0.04526
Std Dev 0.8853

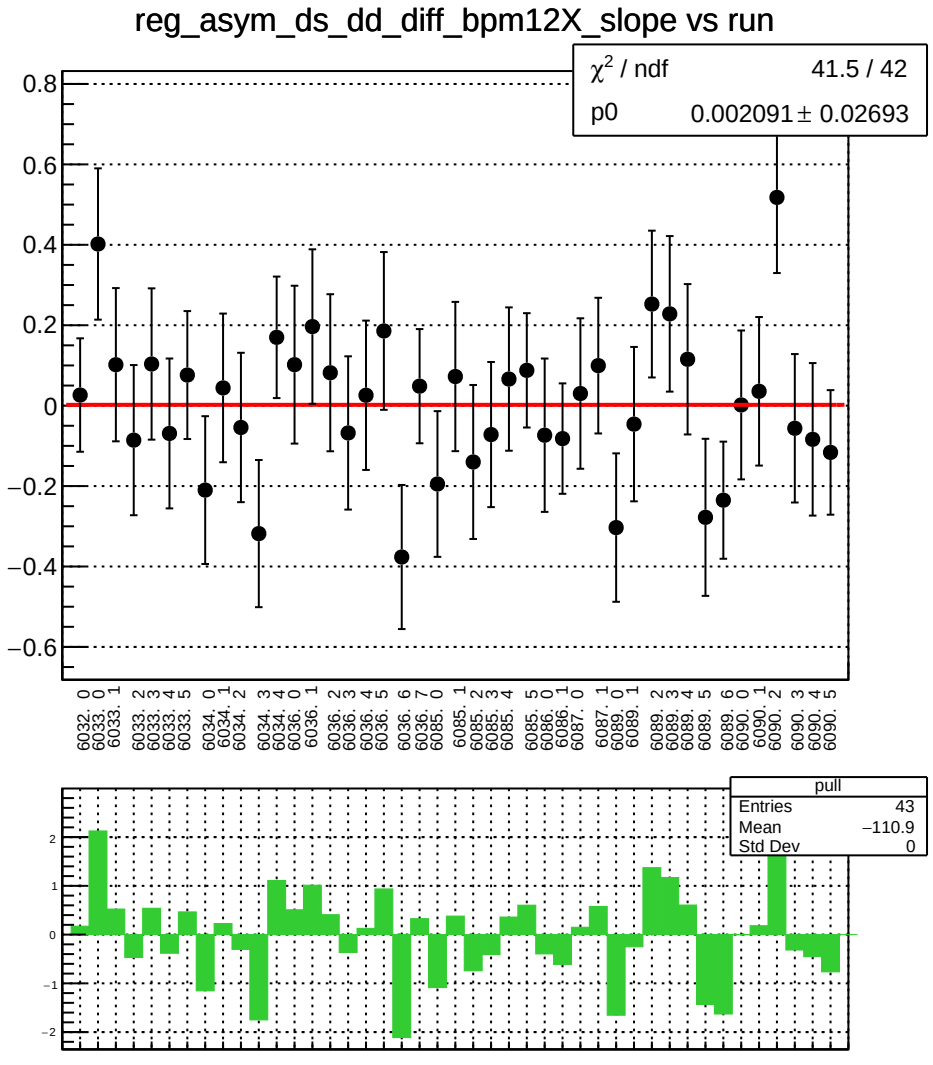

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.89 / 42
p0 0.5942 ± 0.299
pull
Entries 43
Mean 1507
Std Dev 0

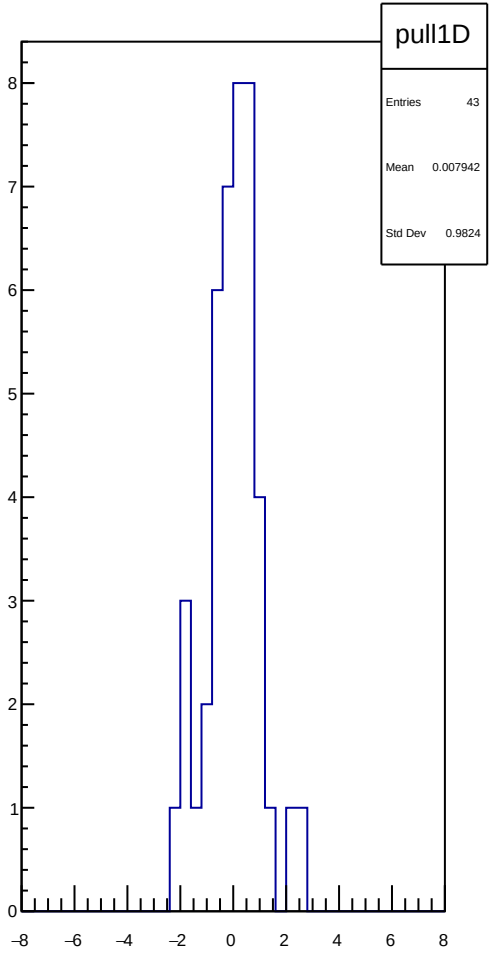

pull1D
Entries 43
Mean 0.001239
Std Dev 1.119

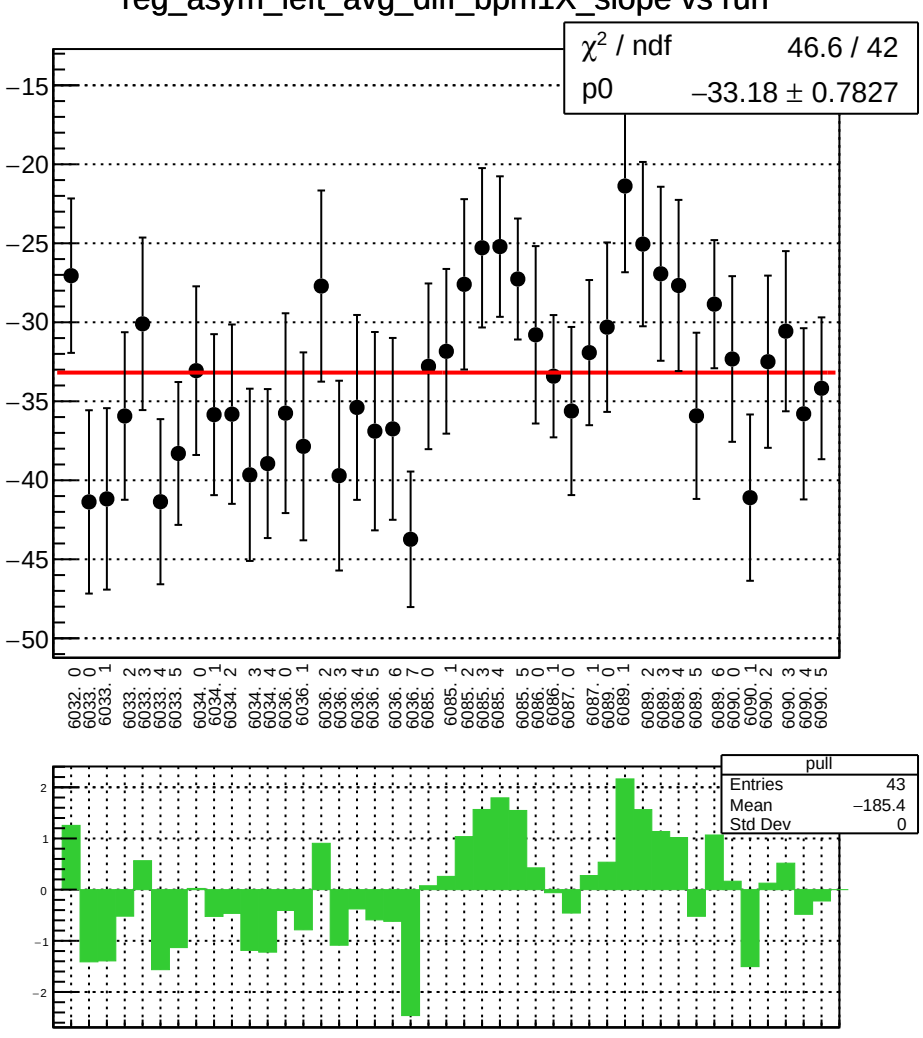

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.13 / 42
p0 0.4162 ± 0.3268
pull
Entries 43
Mean −22.72
Std Dev 0

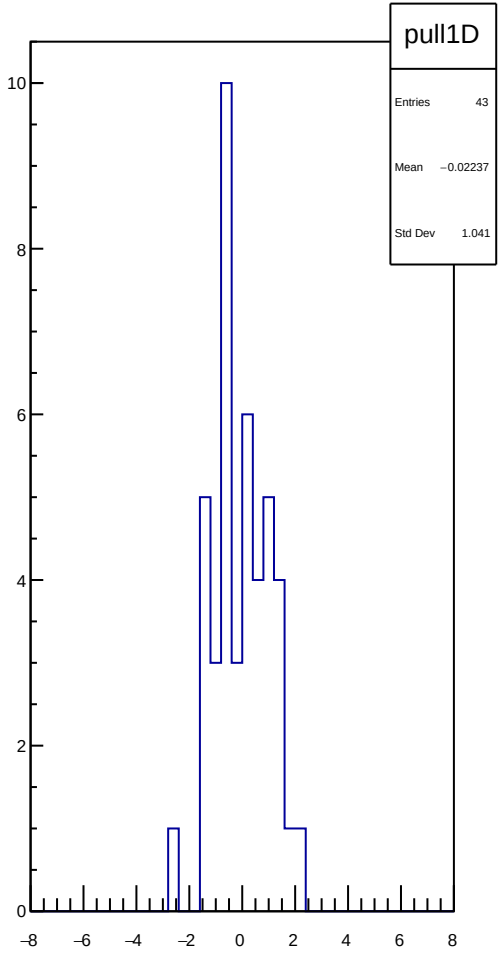

pull1D
Entries 43
Mean −0.04241
Std Dev 0.9156

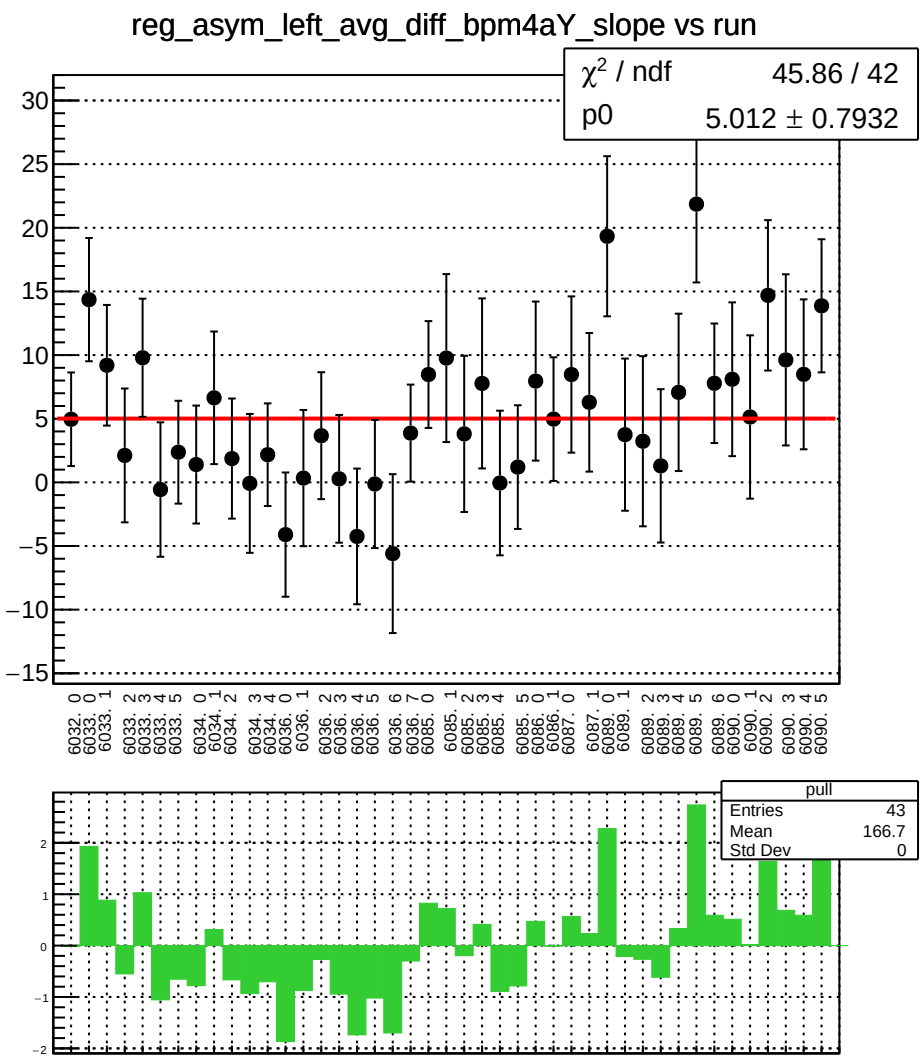

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.23 / 42
p0 −0.6272 ± 0.3236
pull
Entries 43
Mean −132.3
Std Dev 0
pull1D
Entries 43
Mean 0.009522
Std Dev 1.144

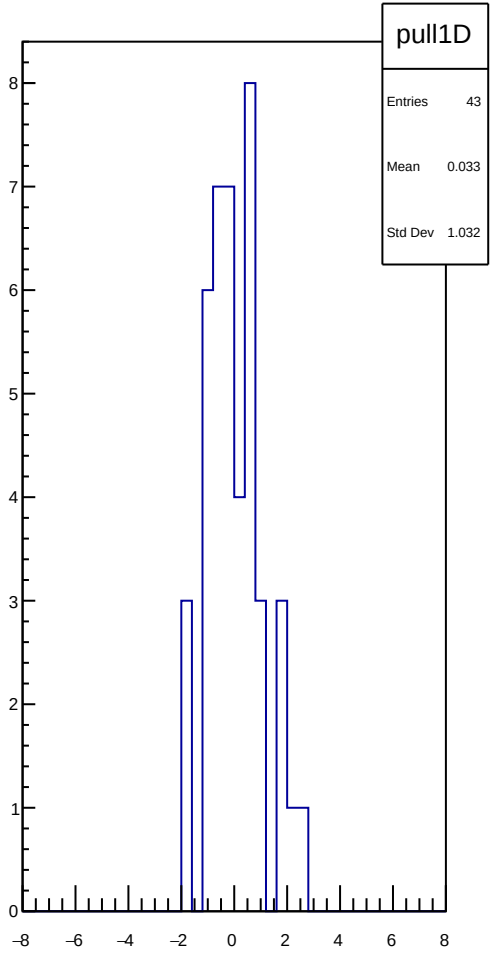

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 41.5 / 42
p0 0.002091 ± 0.02693
pull
Entries 43
Mean −110.9
Std Dev 0

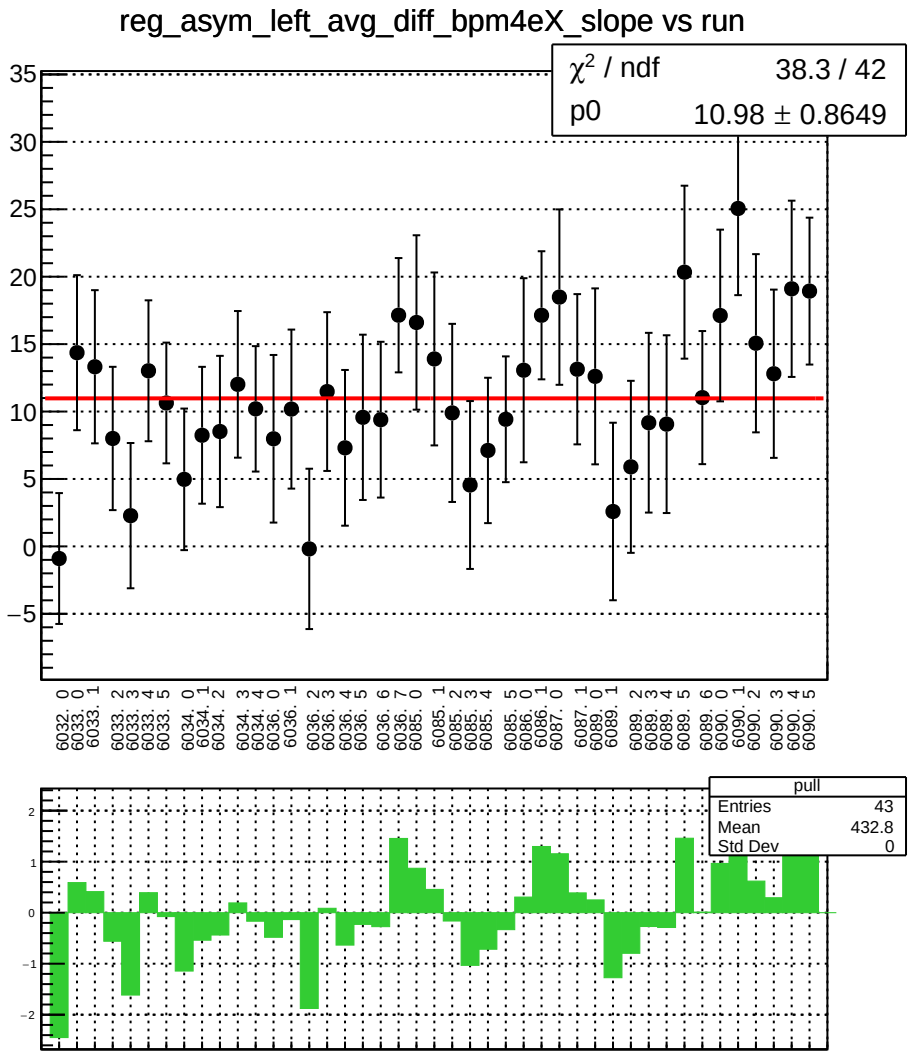

pull1D
Entries 43
Mean 0.007942
Std Dev 0.9824

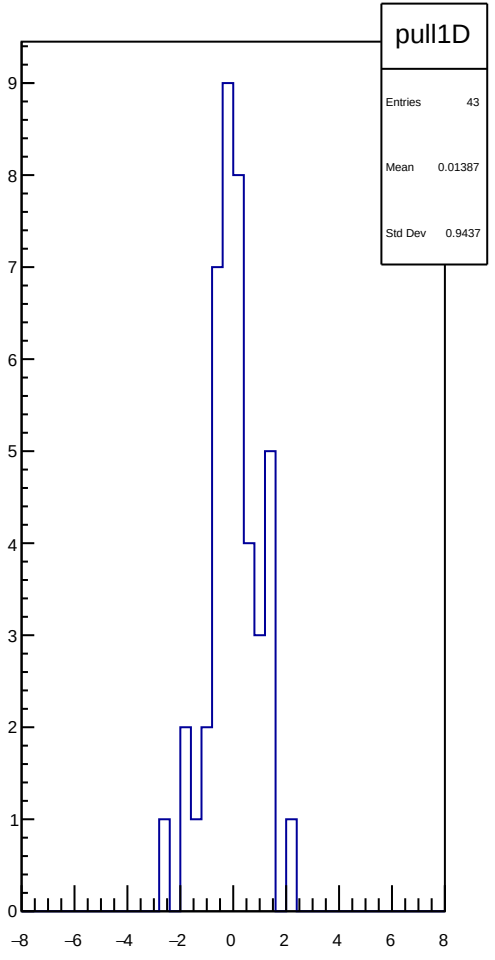

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 46.6 / 42
p0 −33.18 ± 0.7827
pull
Entries 43
Mean −185.4
Std Dev 0

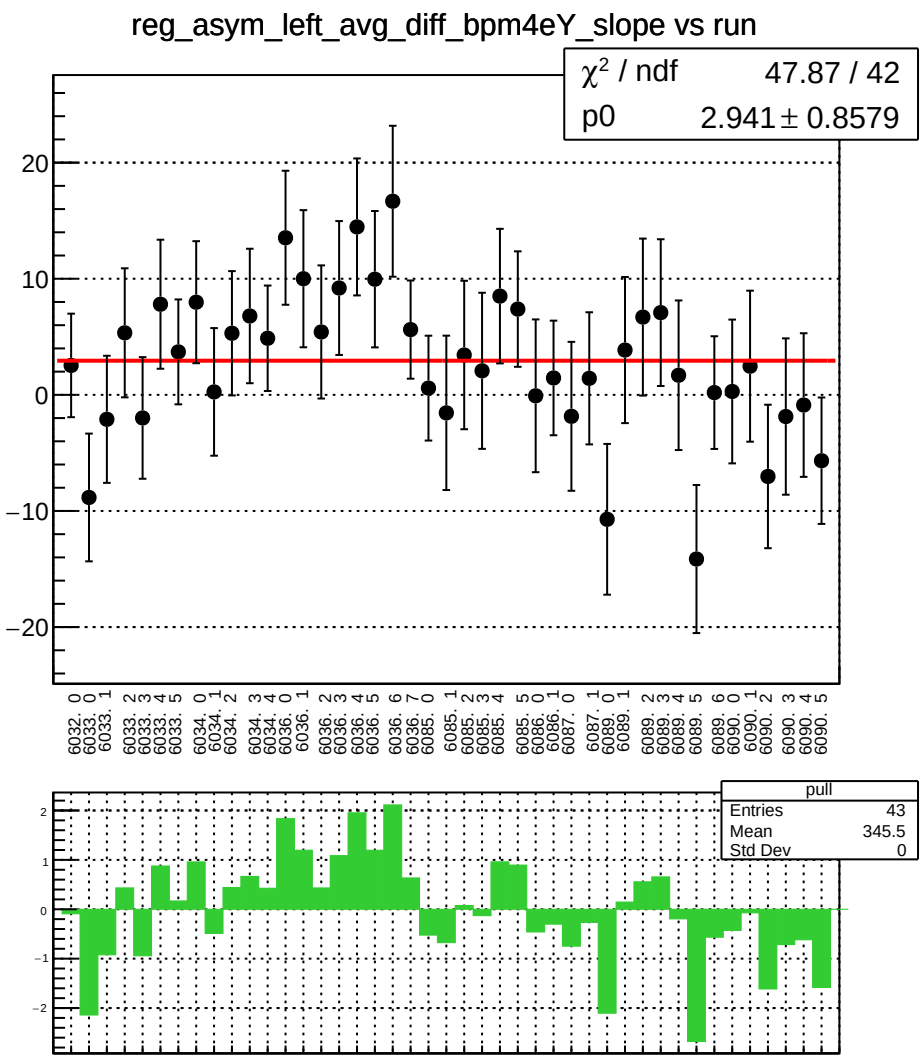

pull1D
Entries 43
Mean −0.02237
Std Dev 1.041

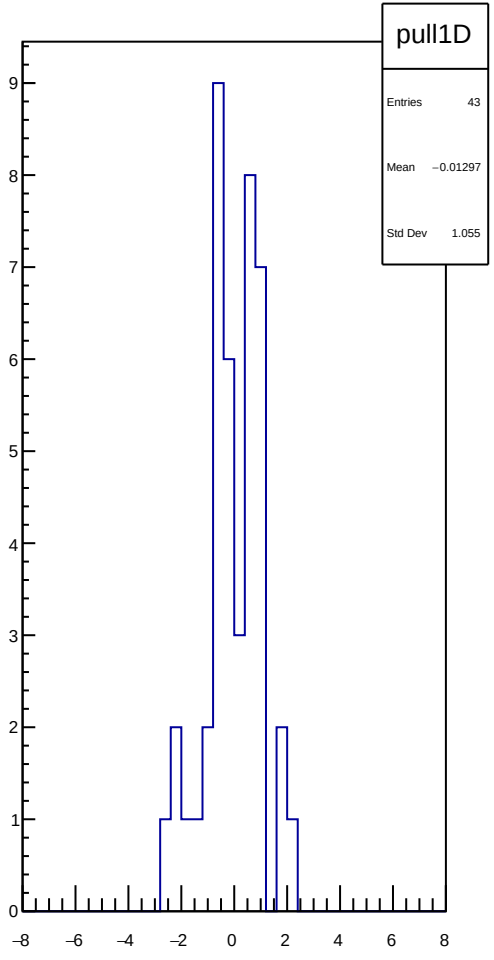

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.86 / 42
p0 5.012 ± 0.7932
pull
Entries 43
Mean 166.7
Std Dev 0

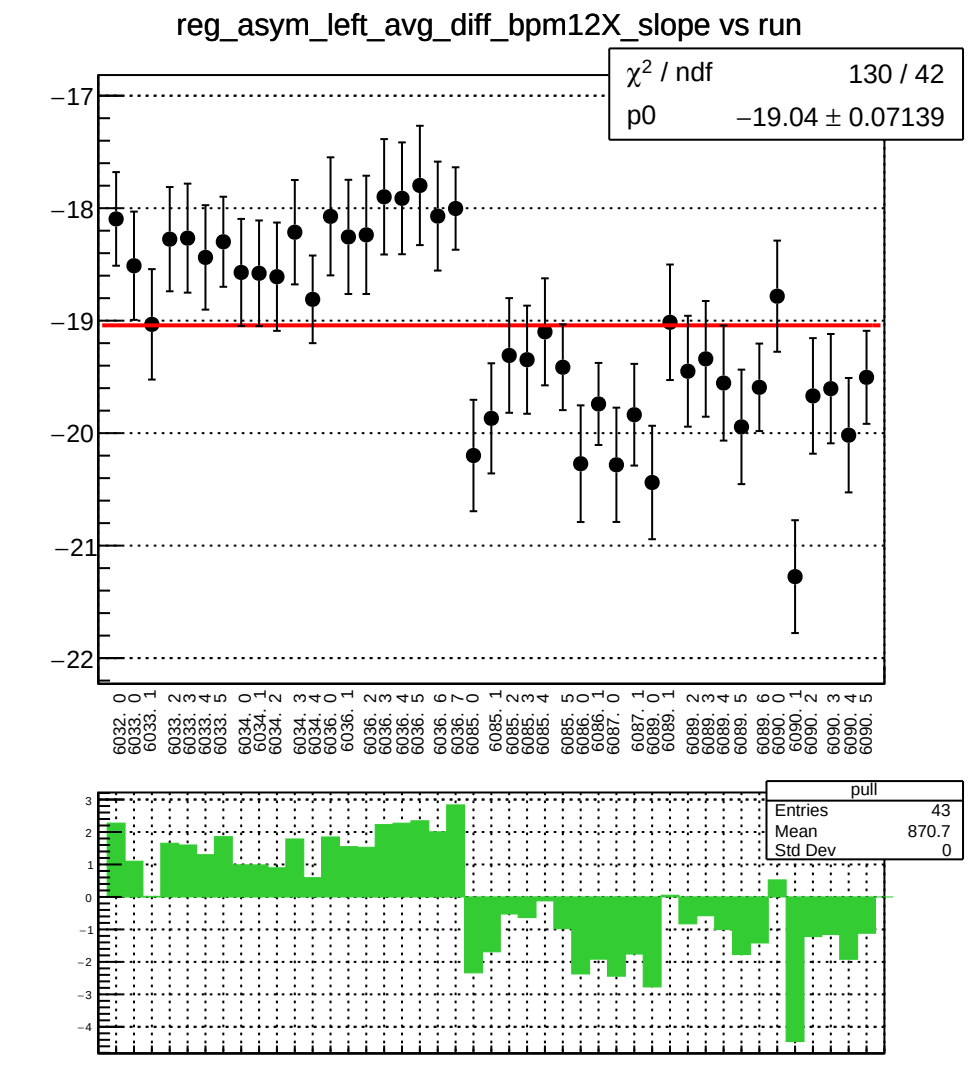

pull1D
Entries 43
Mean 0.033
Std Dev 1.032

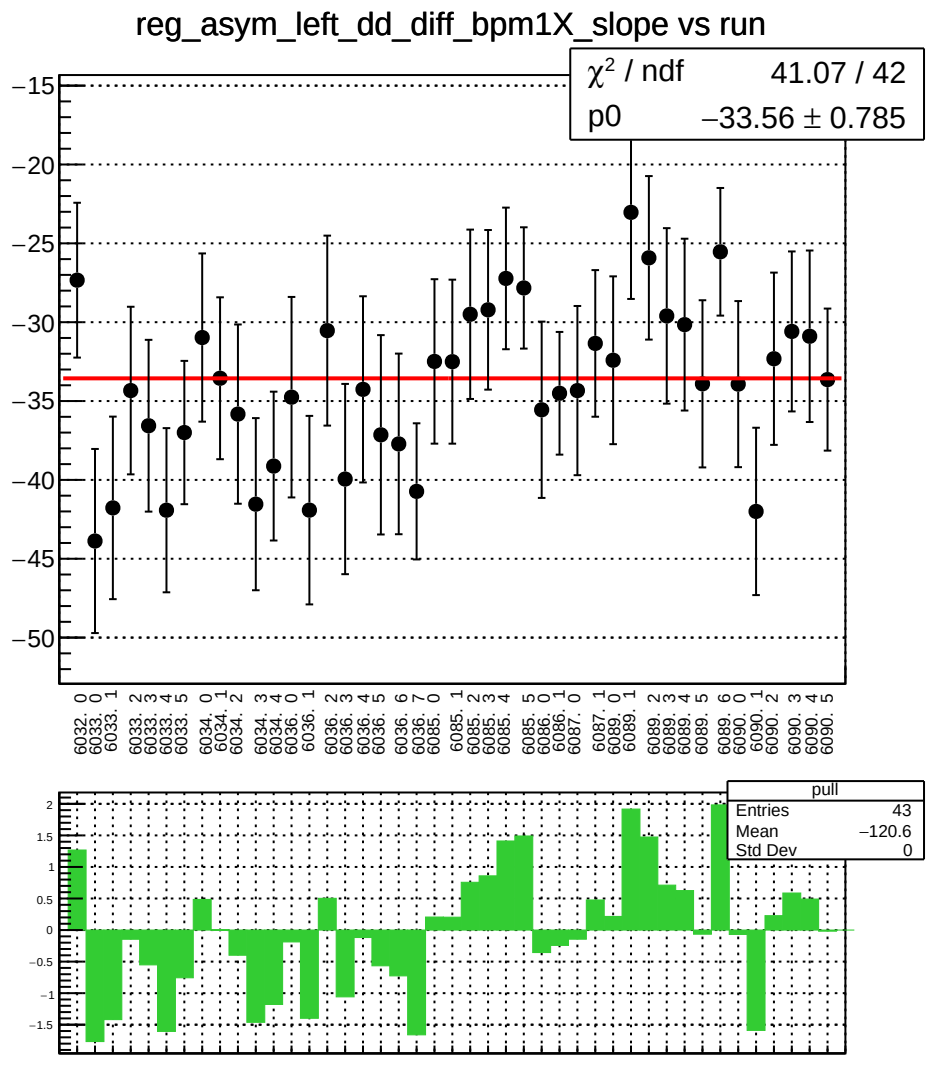

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.3 / 42
p0 10.98 ± 0.8649
pull
Entries 43
Mean 432.8
Std Dev 0

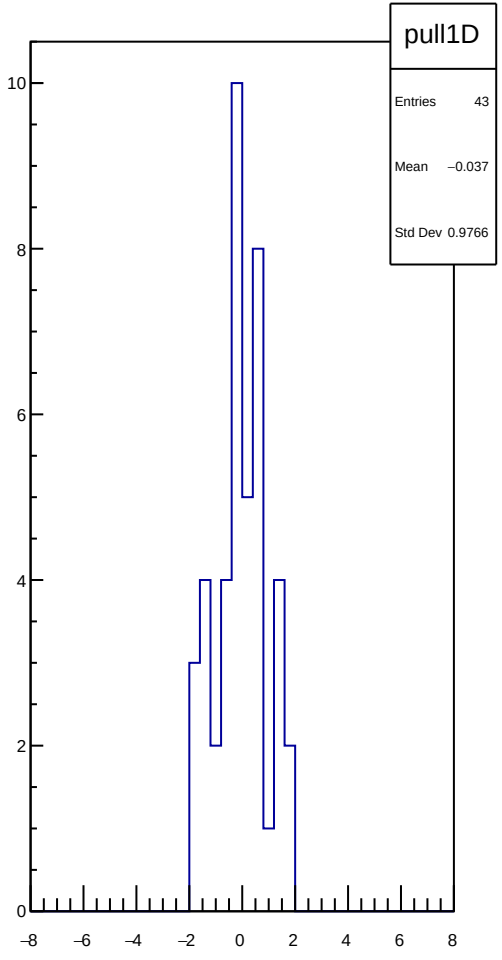

pull1D
Entries 43
Mean 0.01387
Std Dev 0.9437

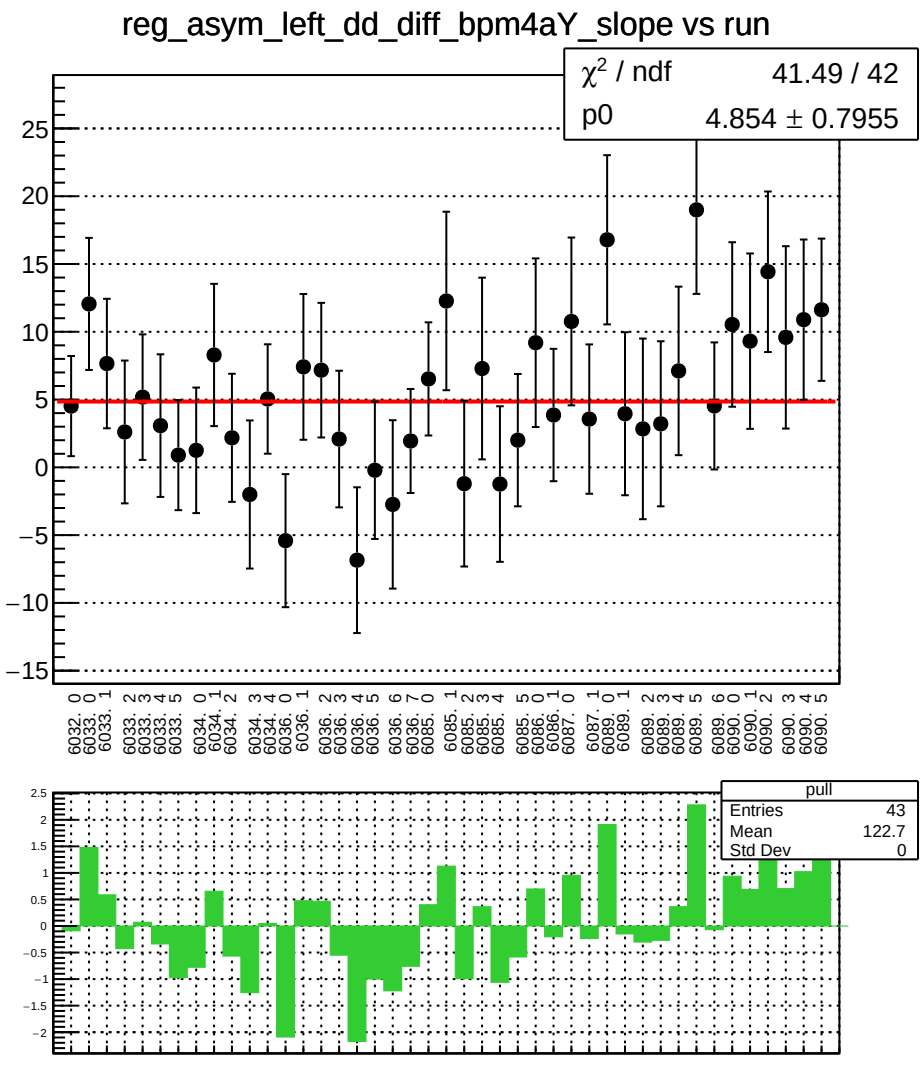

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.87 / 42
p0 2.941 ± 0.8579
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 345.5
Std Dev 0
2
1
0
−1
−2

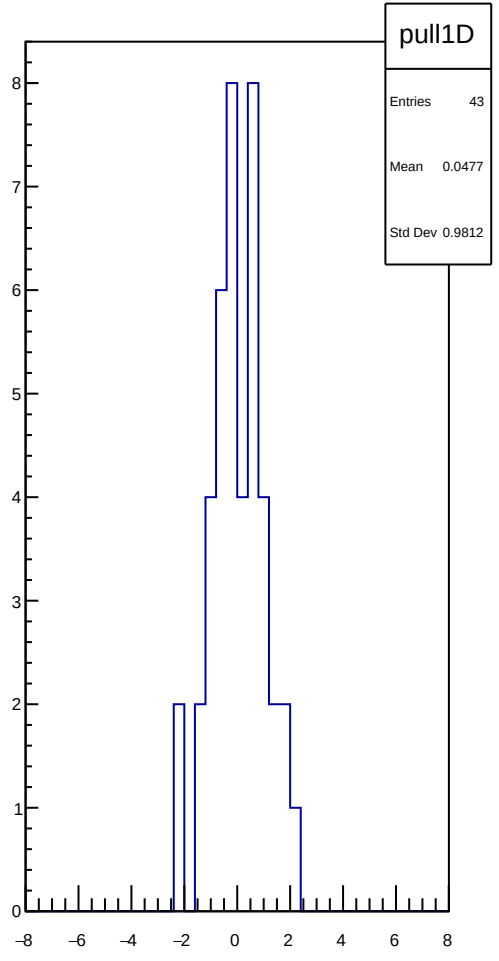

pull1D
Entries 43
Mean −0.01297
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

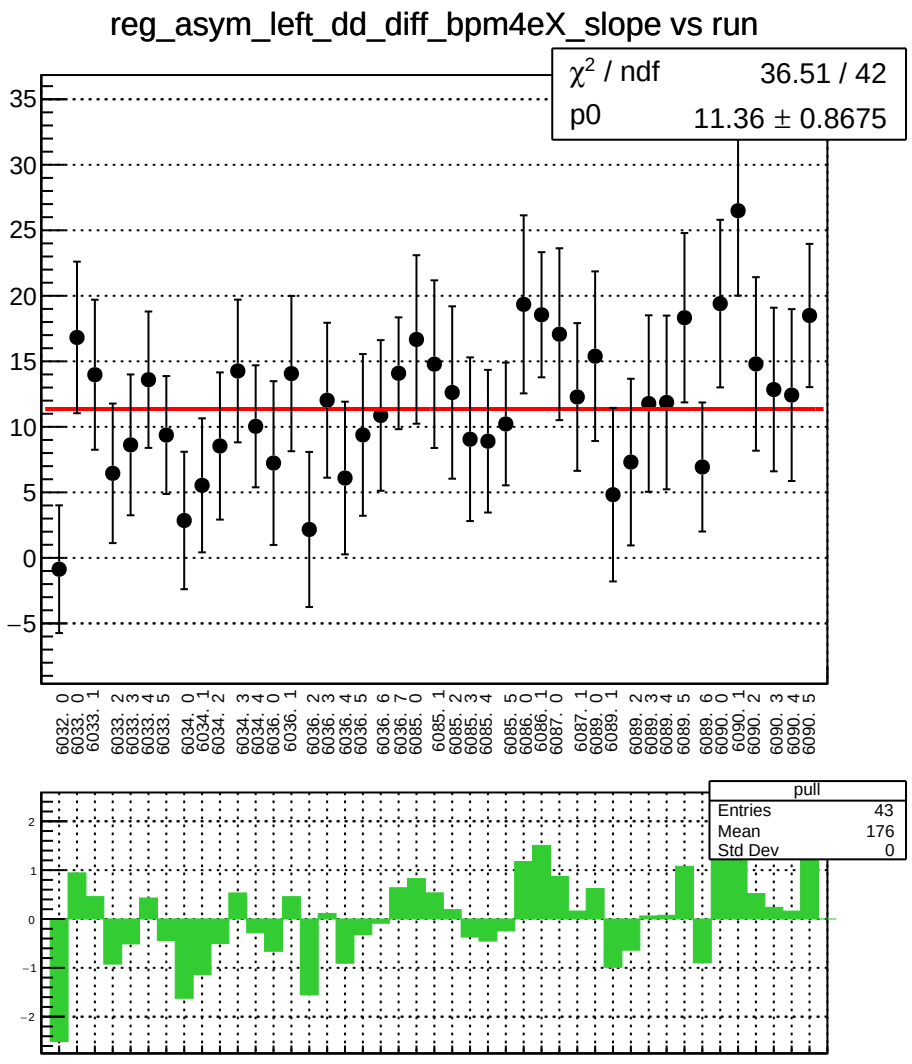

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 130 / 42
p0 −19.04 ± 0.07139
−17
−18
−19
−20
−21
−22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 870.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01794
Std Dev 1.738
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

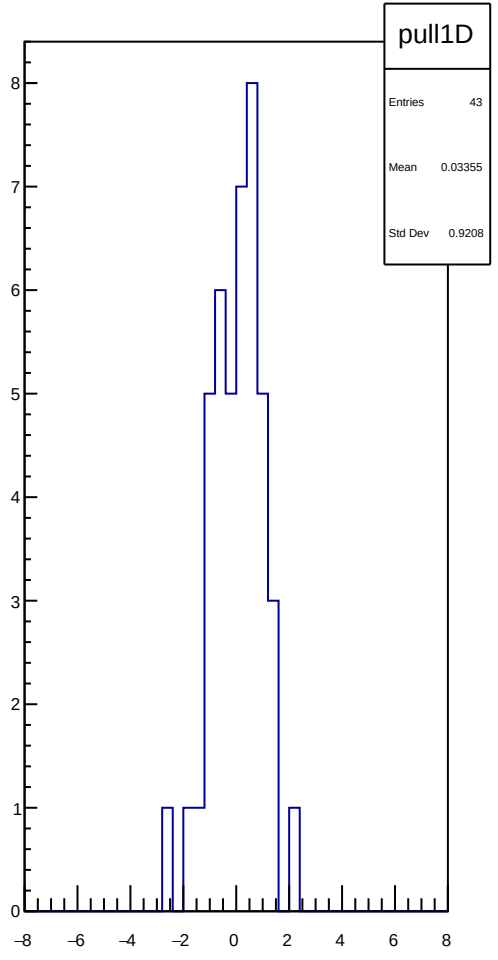

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 41.07 / 42
p0 −33.56 ± 0.785
pull
Entries 43
Mean −120.6
Std Dev 0

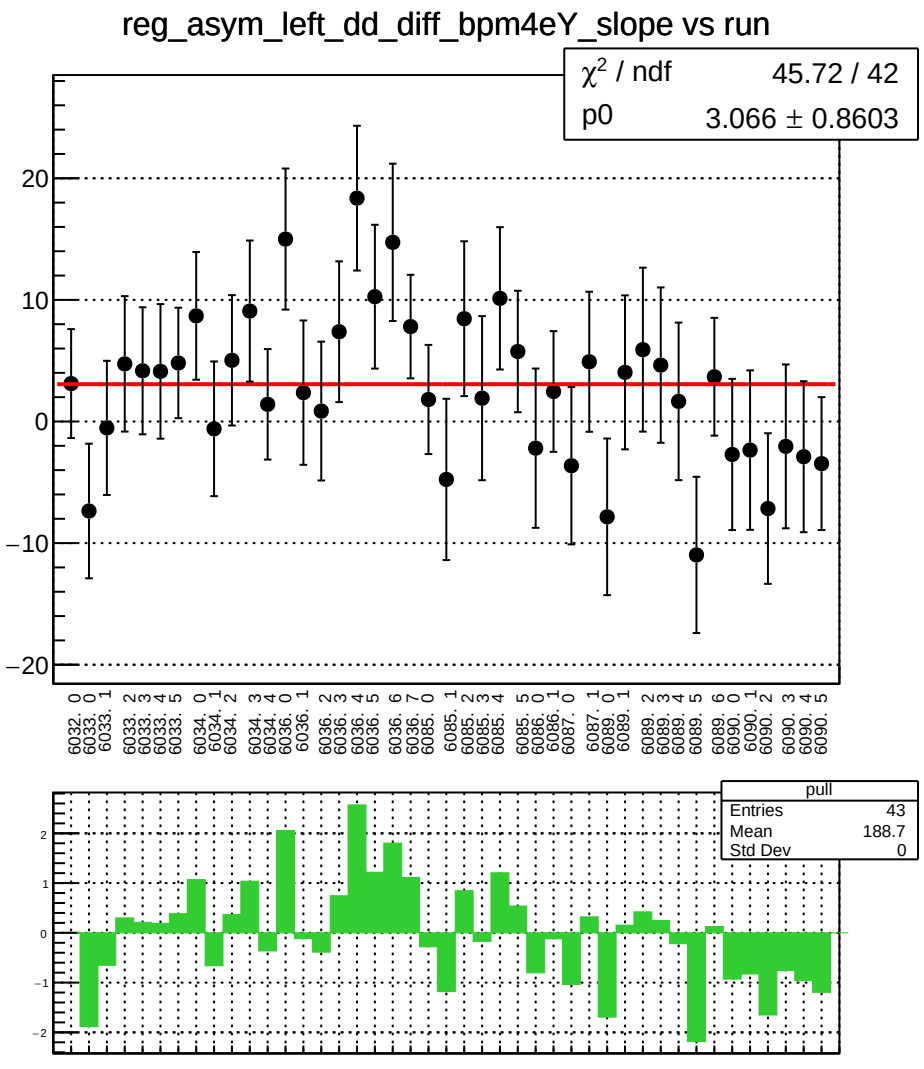

pull1D
Entries 43
Mean −0.037
Std Dev 0.9766

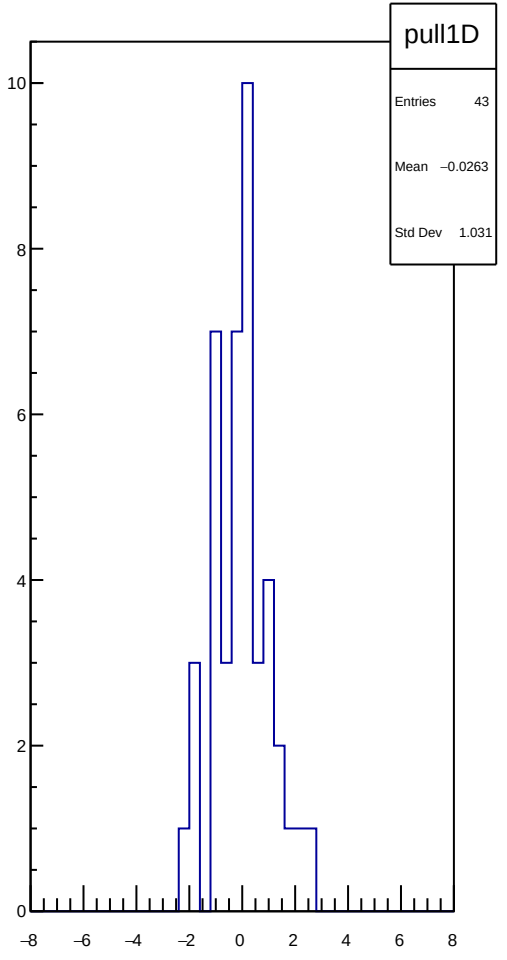

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.49 / 42
p0 4.854 ± 0.7955
pull
Entries 43
Mean 122.7
Std Dev 0

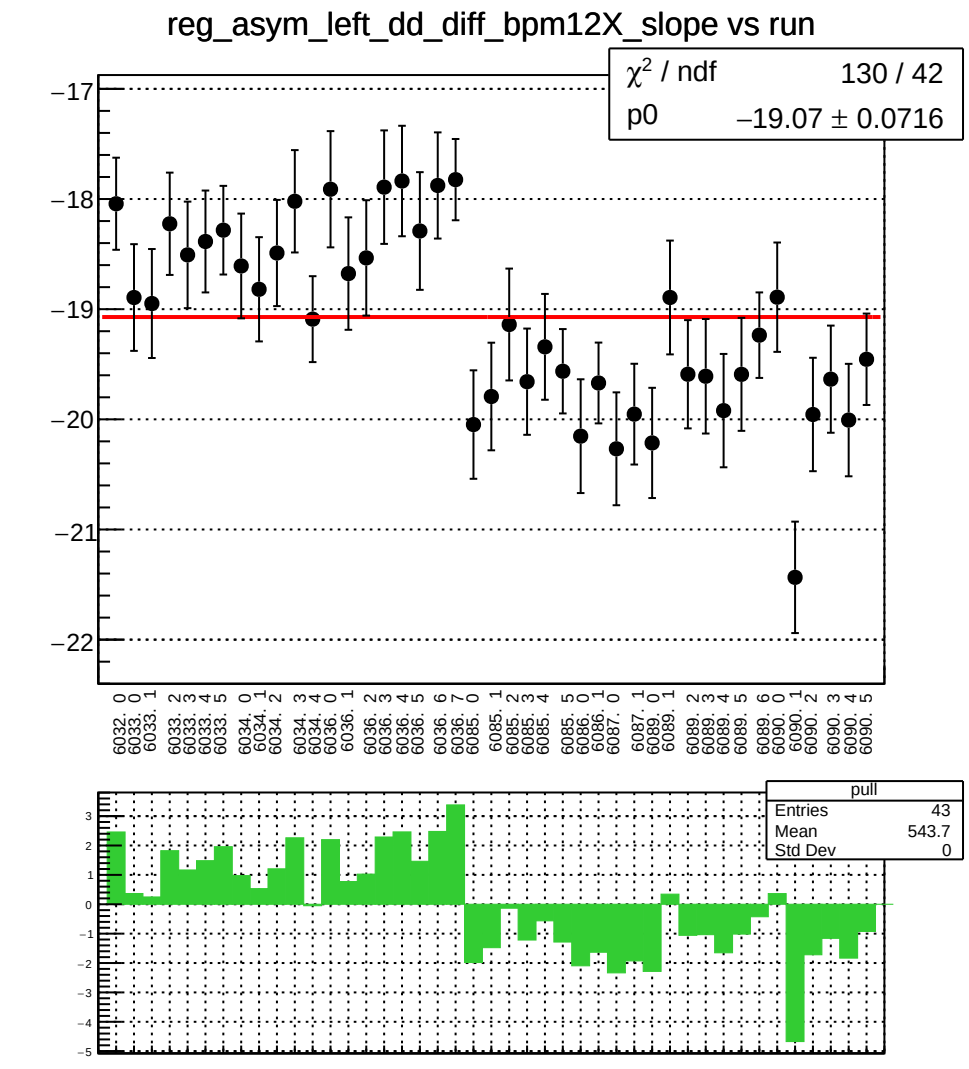

pull1D
Entries 43
Mean 0.0477
Std Dev 0.9812

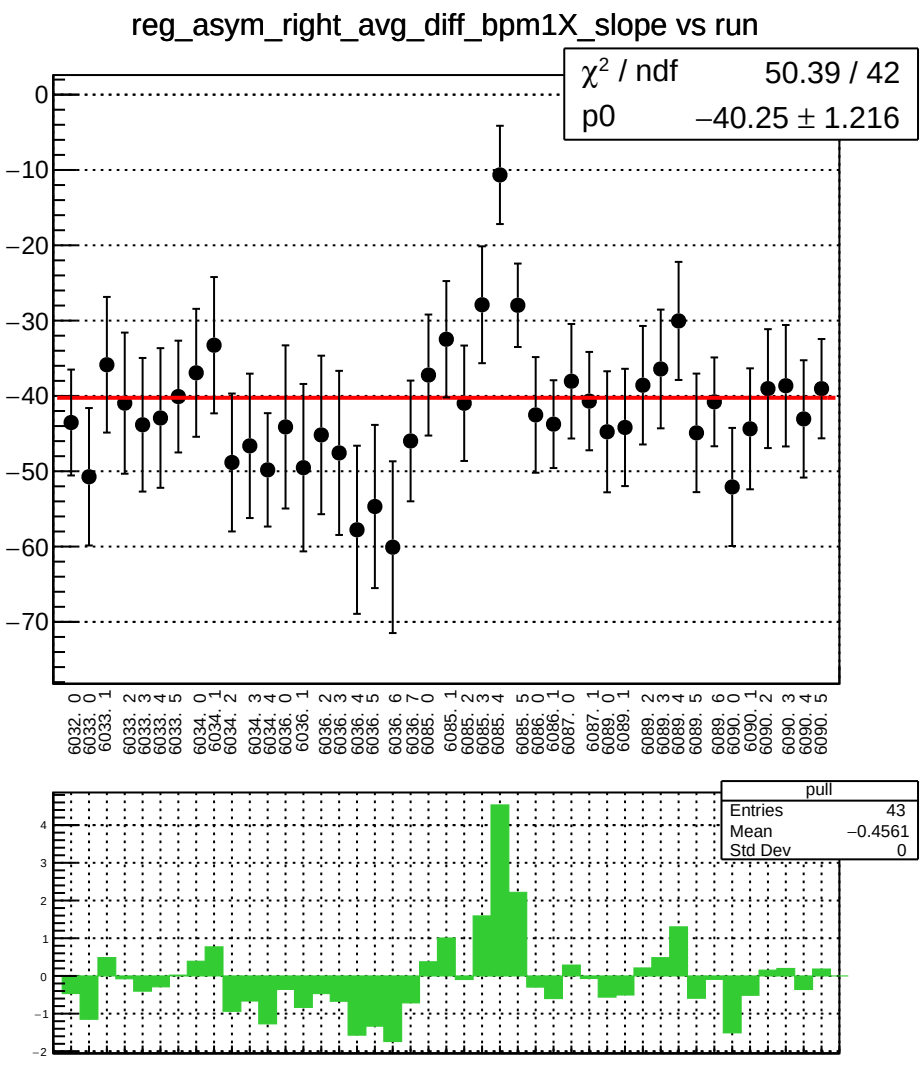

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.51 / 42
p0 11.36 ± 0.8675
pull
Entries 43
Mean 176
Std Dev 0

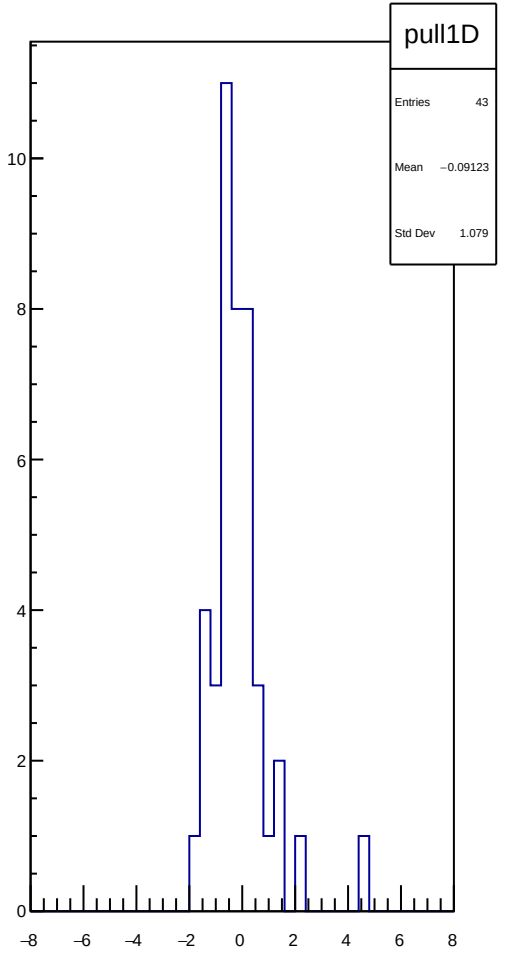

pull1D
Entries 43
Mean 0.03355
Std Dev 0.9208

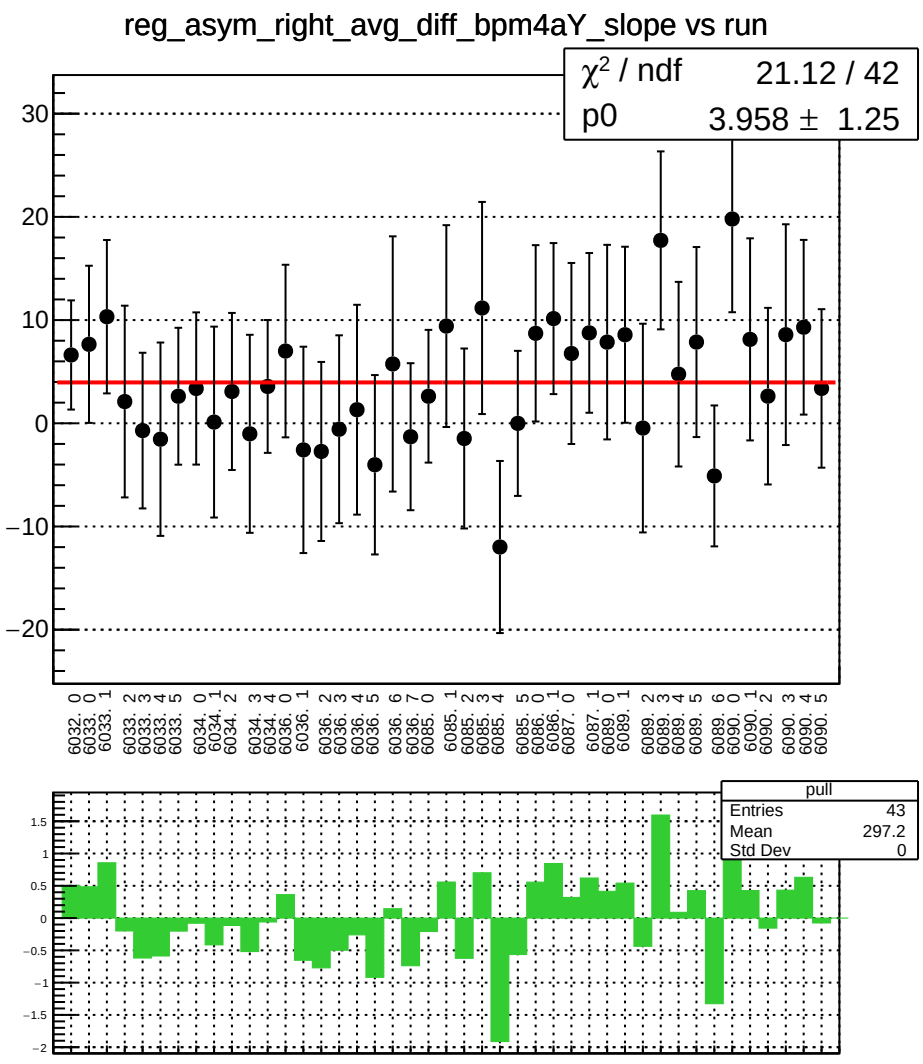

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.72 / 42
p0 3.066 ± 0.8603
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 188.7
Std Dev 0
2
1
0
−1
−2

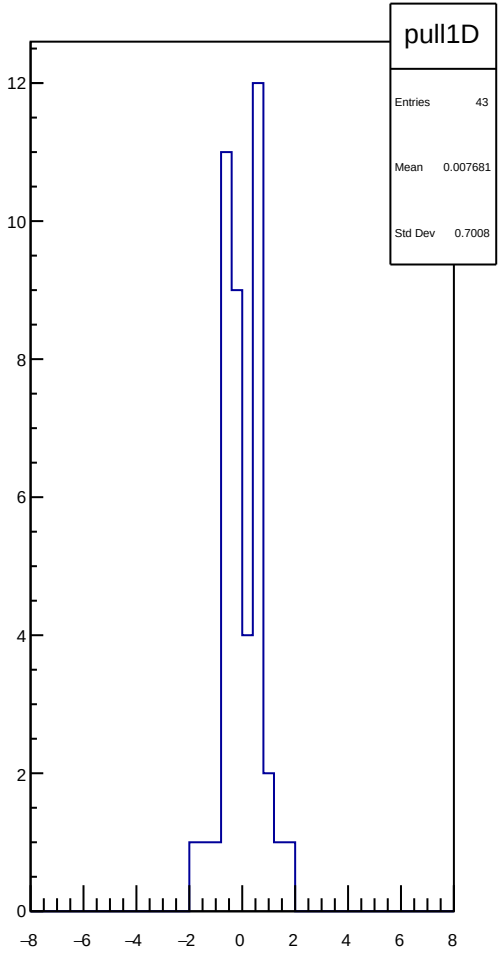

pull1D
Entries 43
Mean −0.0263
Std Dev 1.031
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

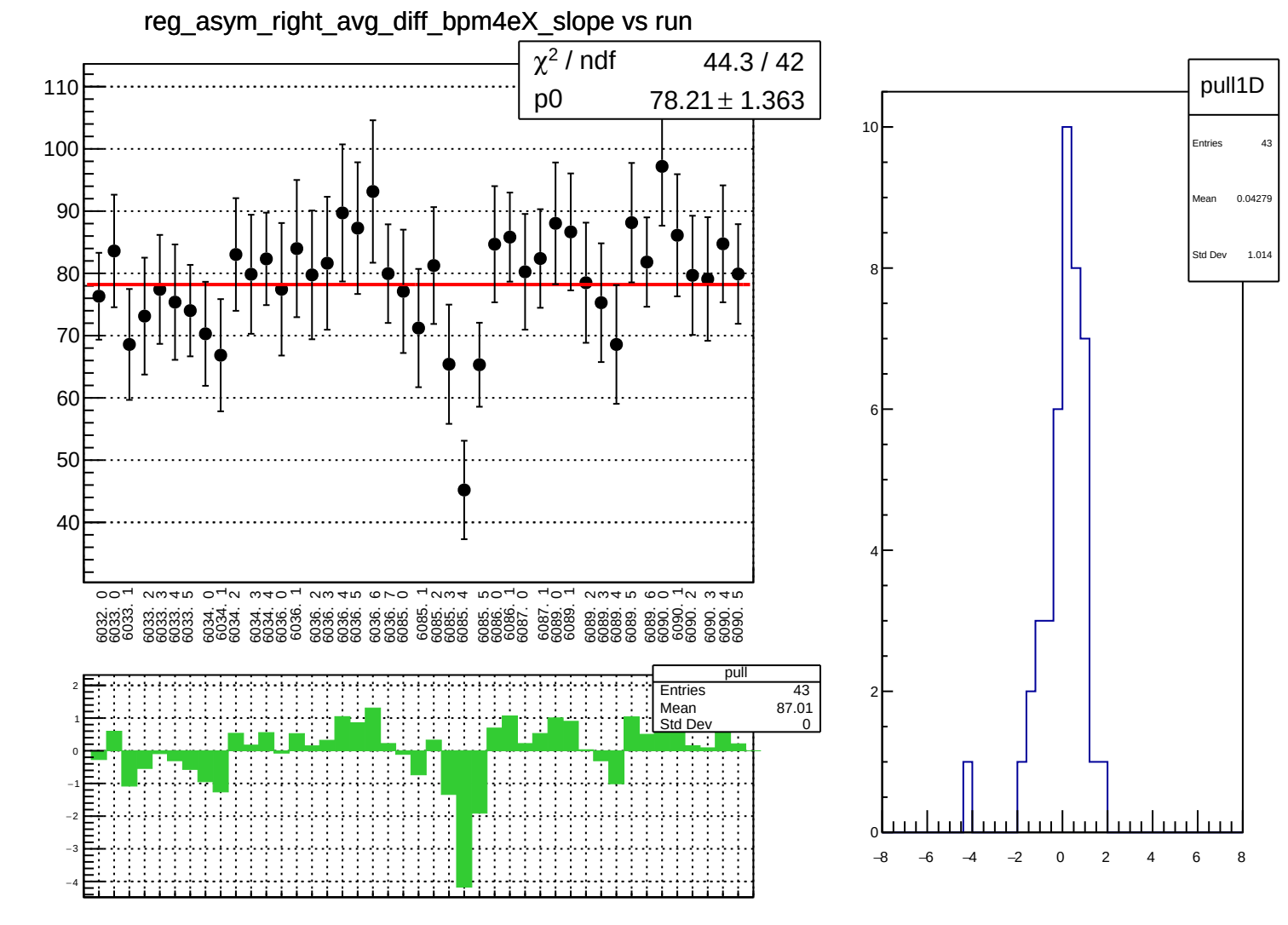

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 130 / 42
p0 −19.07 ± 0.0716
−17
−18
−19
−20
−21
−22
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 543.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean −0.02821
Std Dev 1.739
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

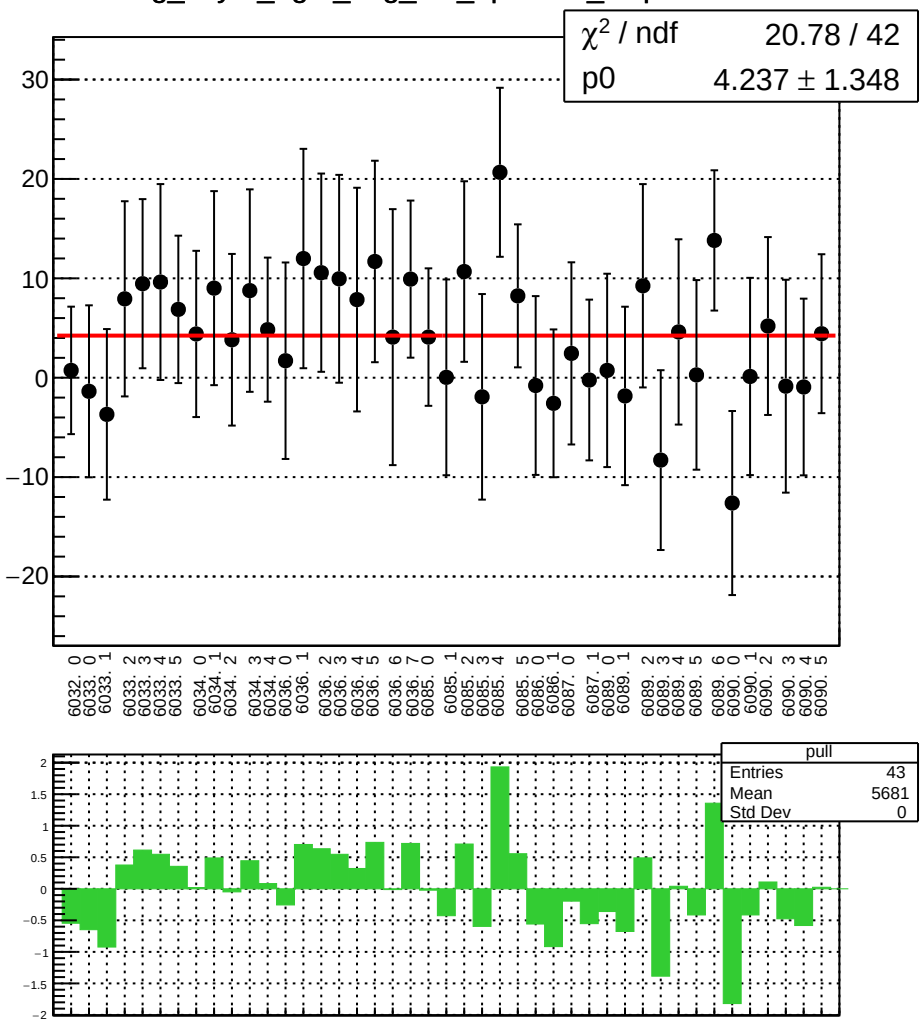

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 50.39 / 42
p0 −40.25 ± 1.216
pull
Entries 43
Mean −0.4561
Std Dev 0

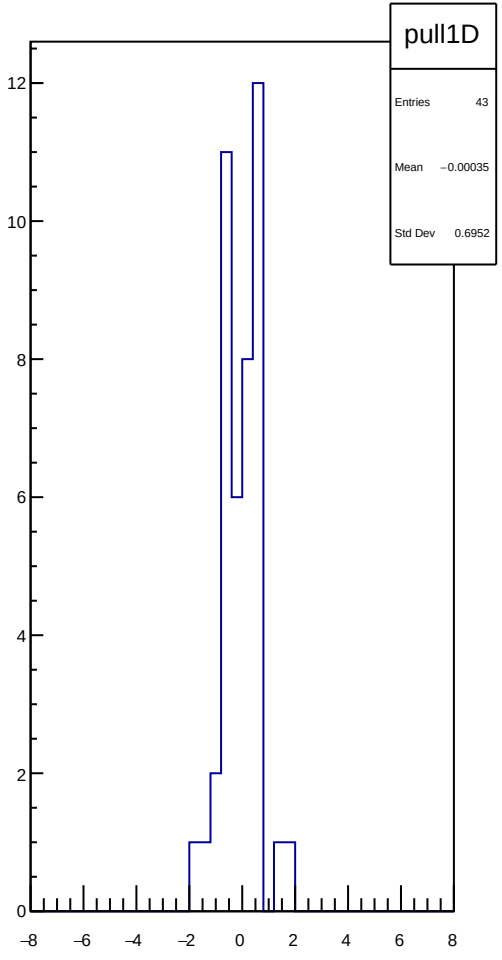

pull1D
Entries 43
Mean −0.09123
Std Dev 1.079

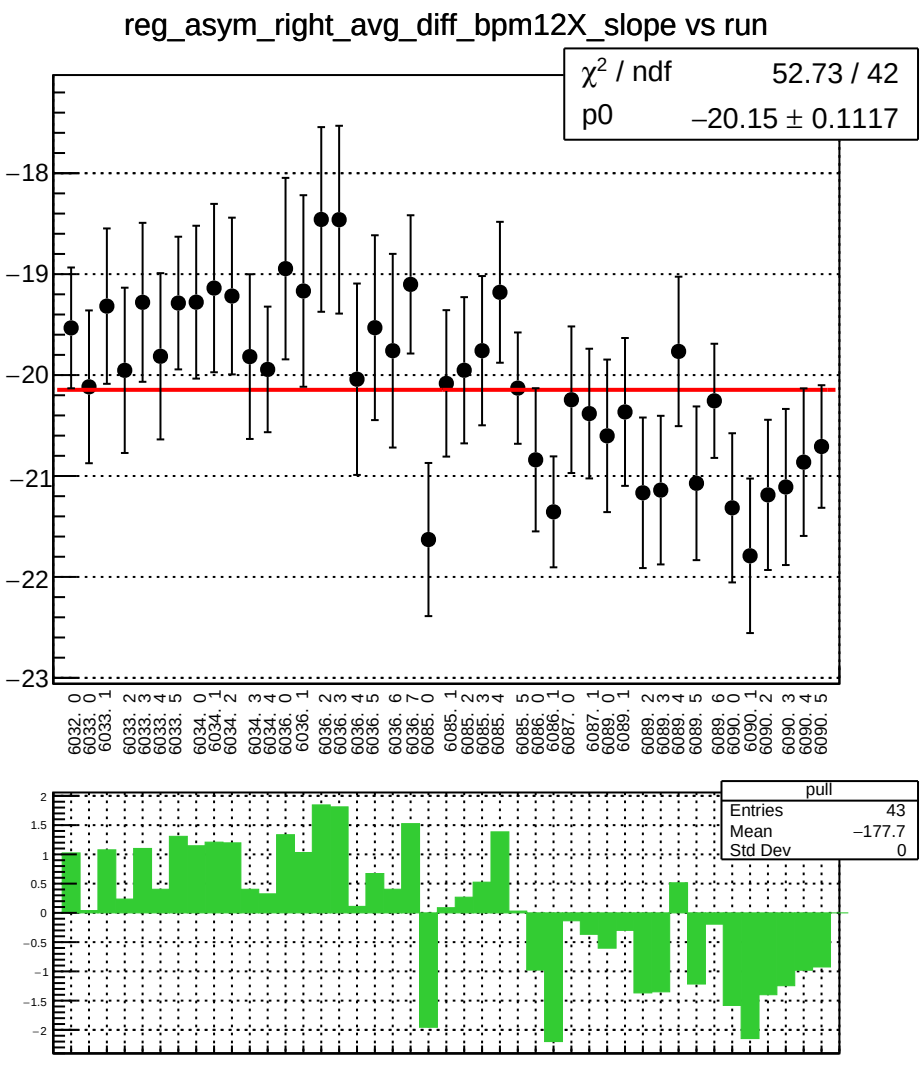

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.12 / 42
p0 3.958 ± 1.25
pull
Entries 43
Mean 297.2
Std Dev 0

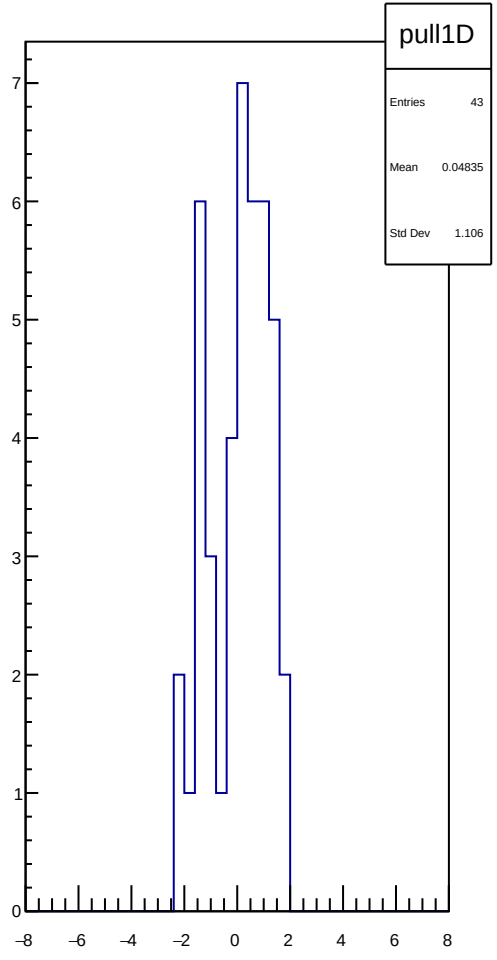

pull1D
Entries 43
Mean 0.007681
Std Dev 0.7008

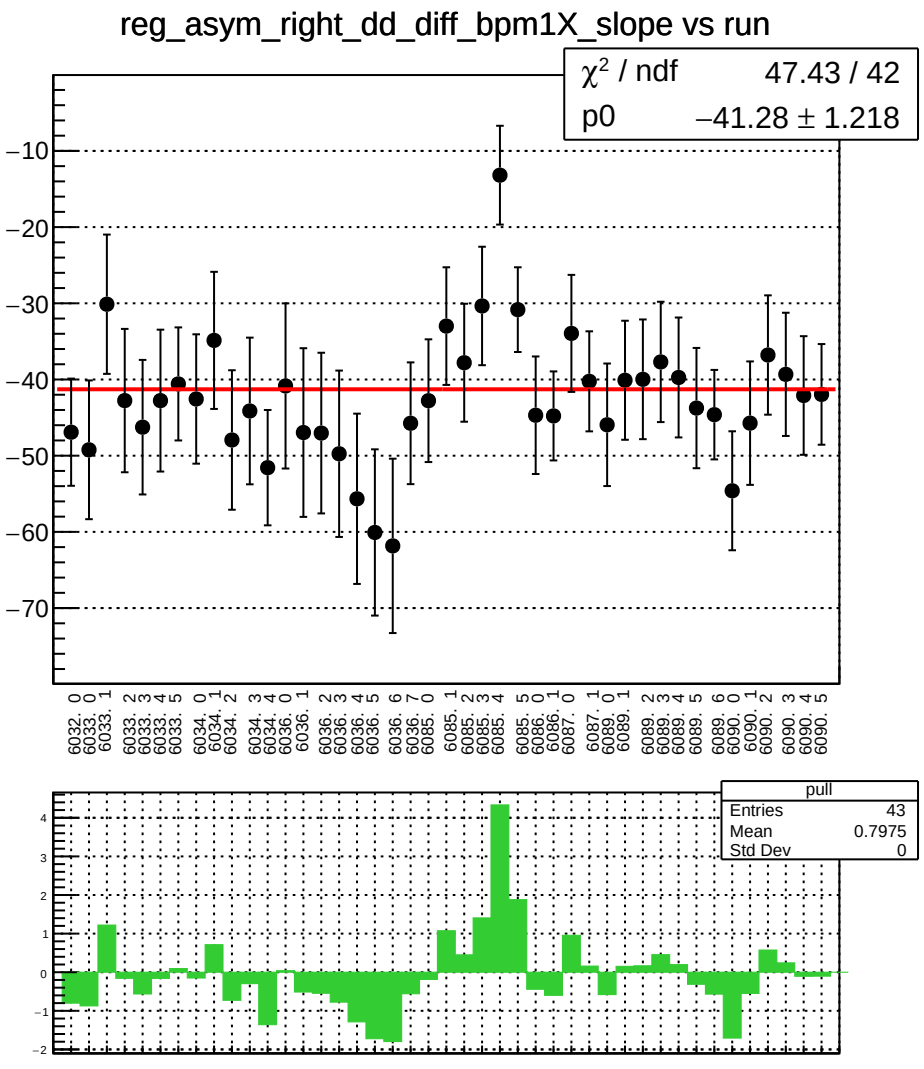

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.3 / 42
p0 78.21 ± 1.363
pull
Entries 43
Mean 87.01
Std Dev 0
pull1D
Entries 43
Mean 0.04279
Std Dev 1.014

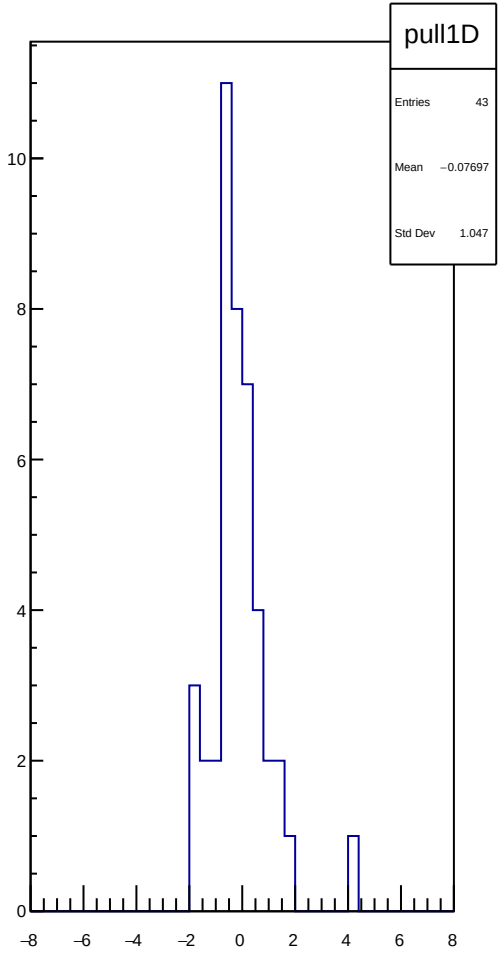

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.78 / 42
p0 4.237 ± 1.348
pull
Entries 43
Mean 5681
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

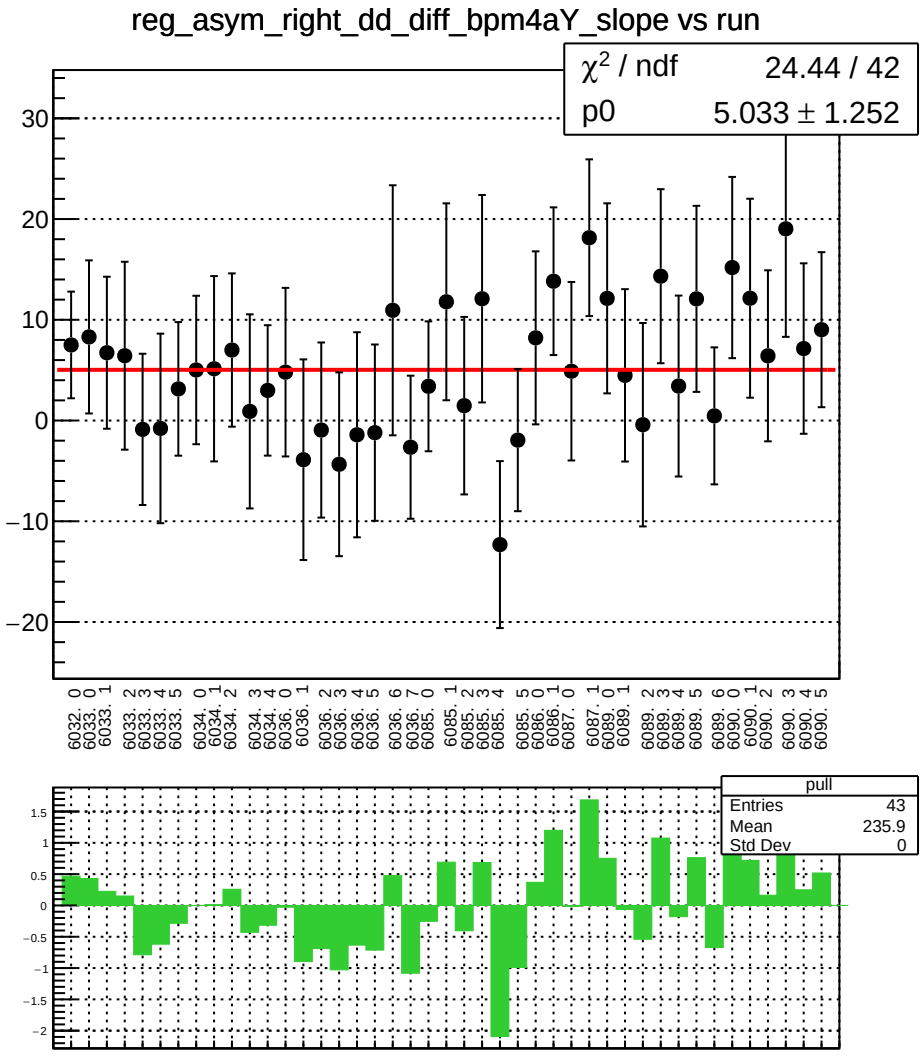

pull1D
Entries 43
Mean −0.00035
Std Dev 0.6952

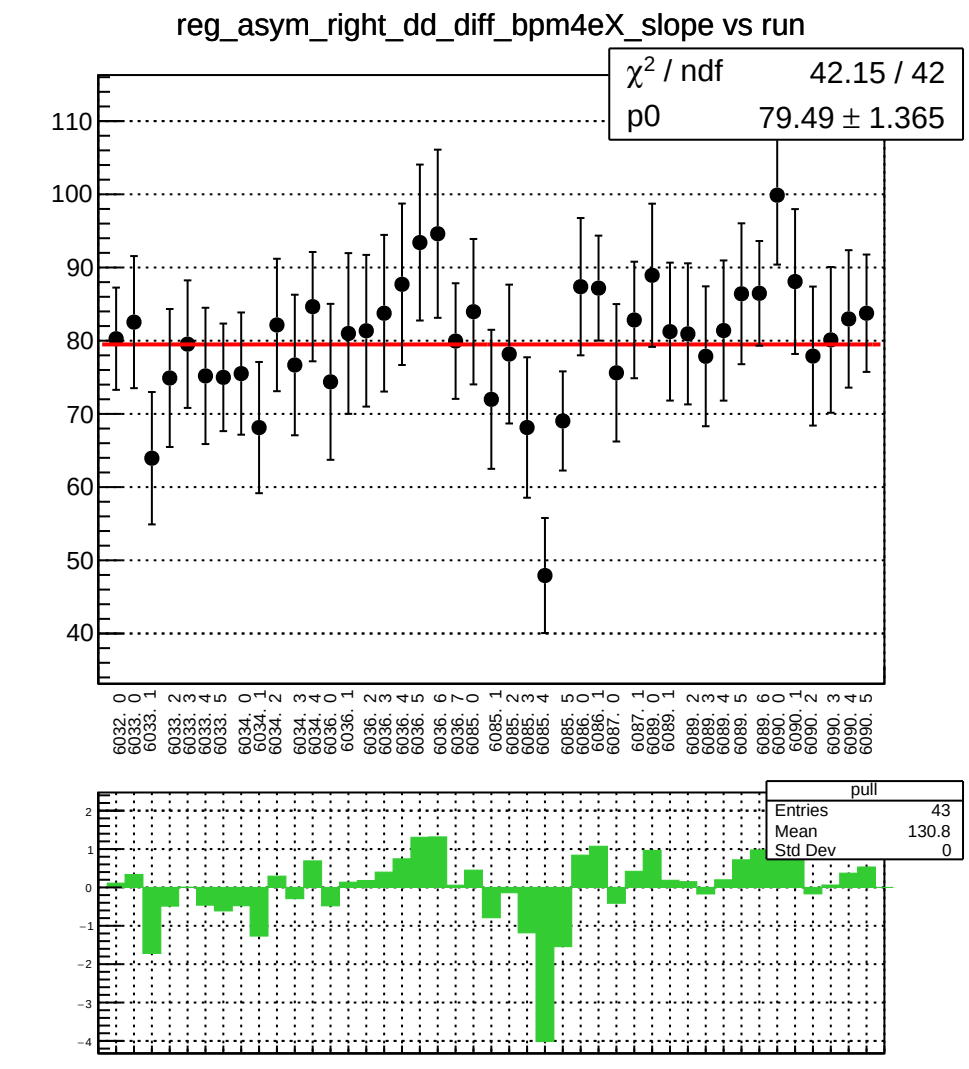

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 52.73 / 42
p0 −20.15 ± 0.1117
pull
Entries 43
Mean −177.7
Std Dev 0

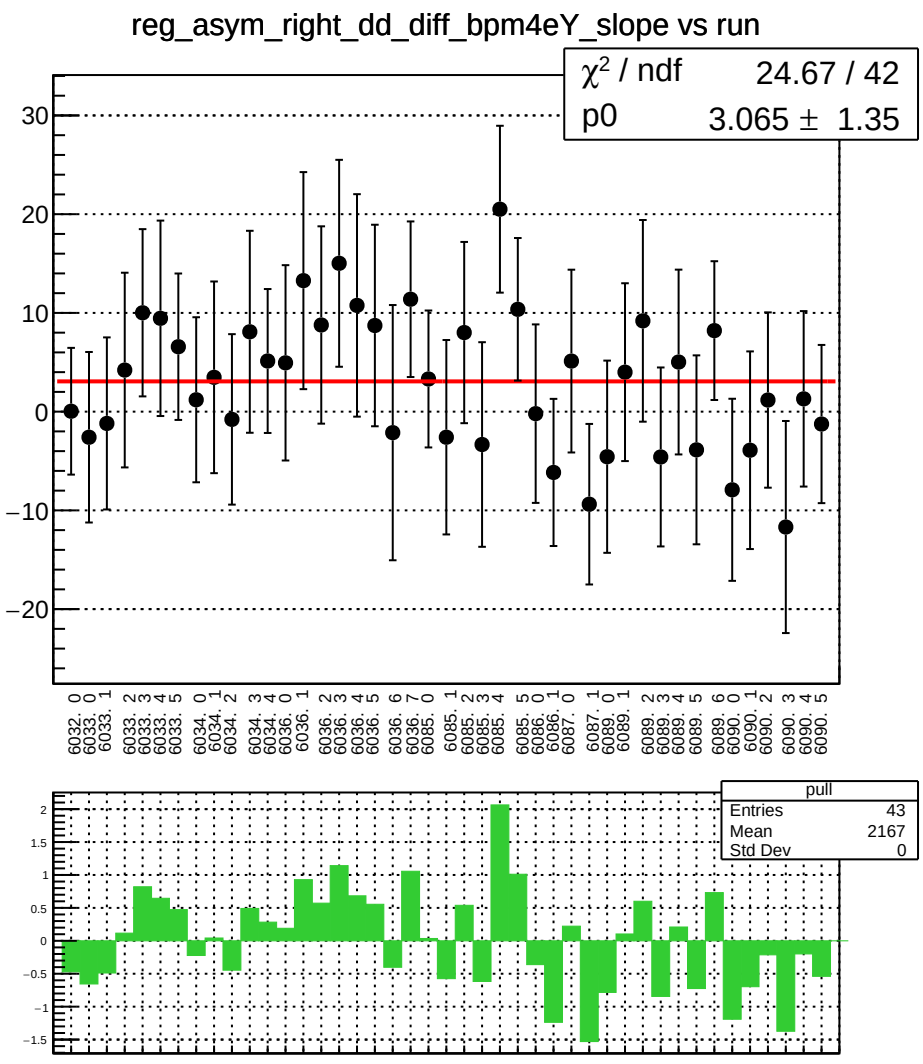

pull1D
Entries 43
Mean 0.04835
Std Dev 1.106

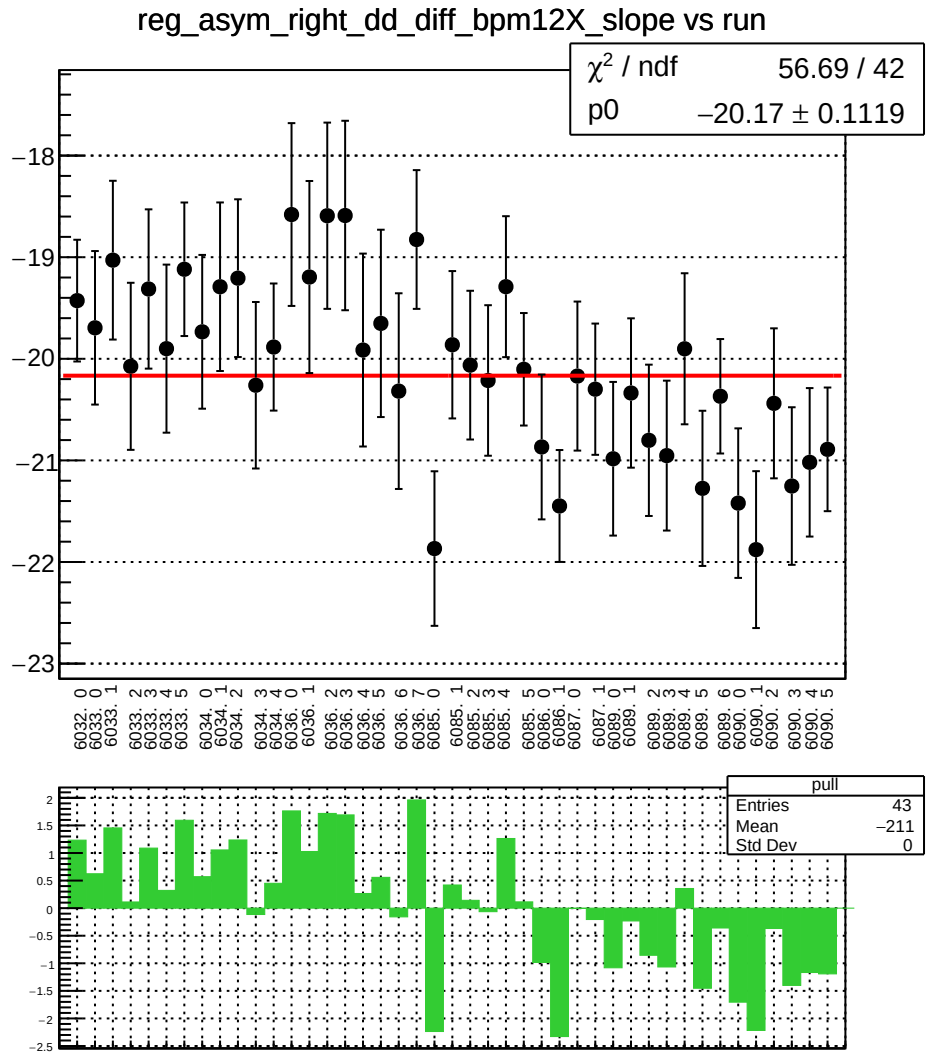

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 47.43 / 42
p0 −41.28 ± 1.218
−10
−20
−30
−40
−50
−60
−70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.7975
Std Dev 0
4
3
2
1
0
−1
−2

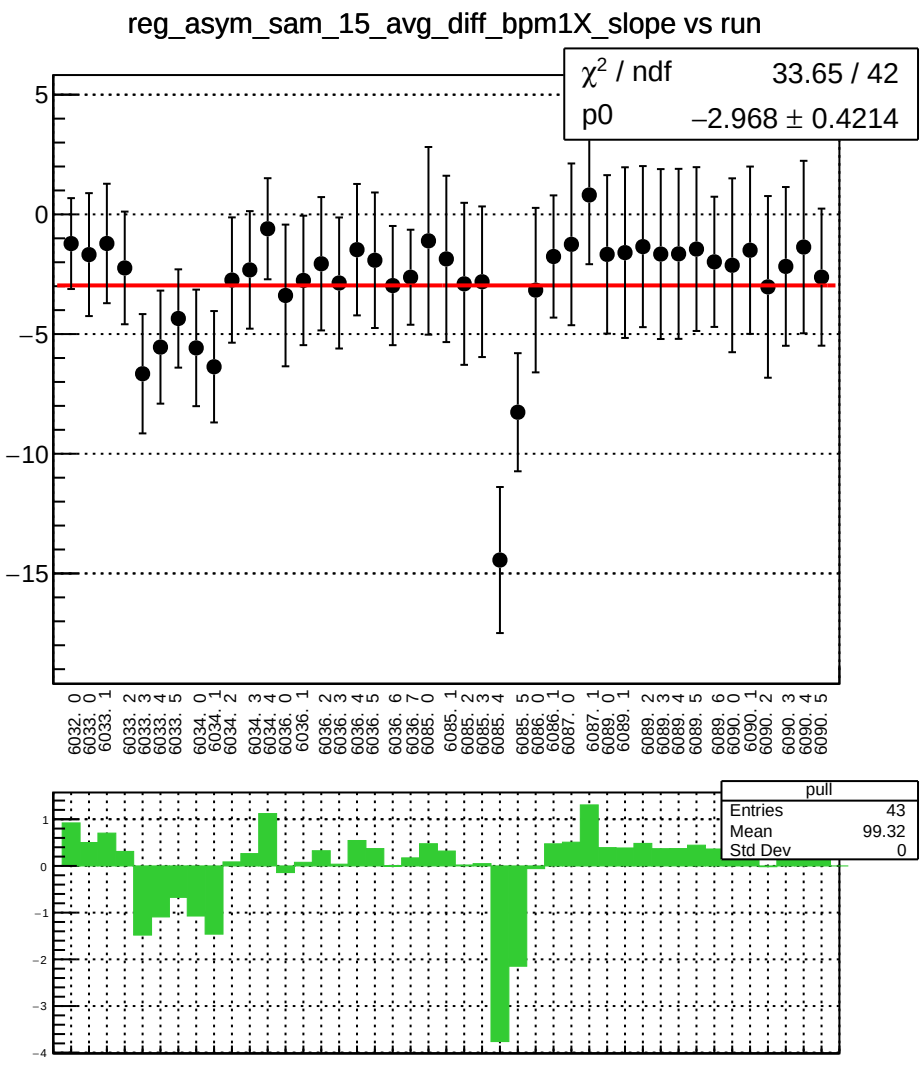

pull1D
Entries 43
Mean −0.07697
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

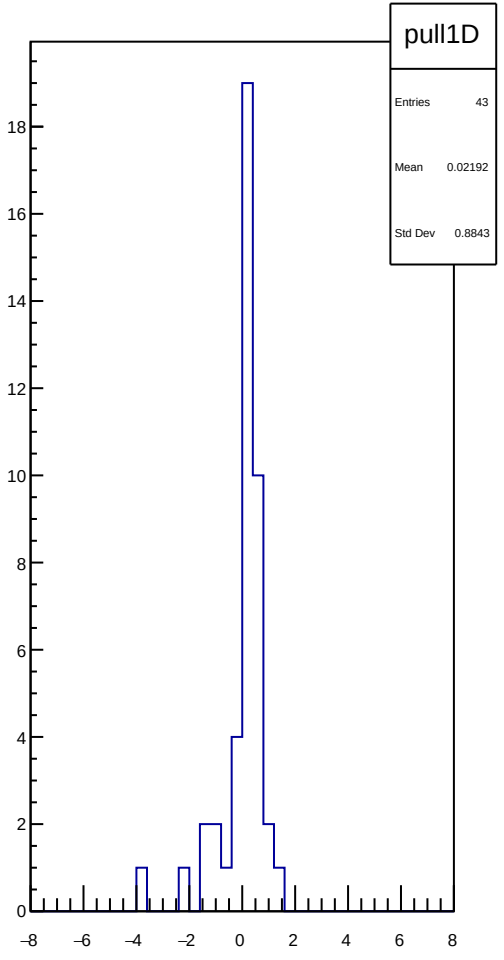

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.44 / 42
p0 5.033 ± 1.252
pull
Entries 43
Mean 235.9
Std Dev 0
pull1D
Entries 43
Mean 0.01418
Std Dev 0.7538

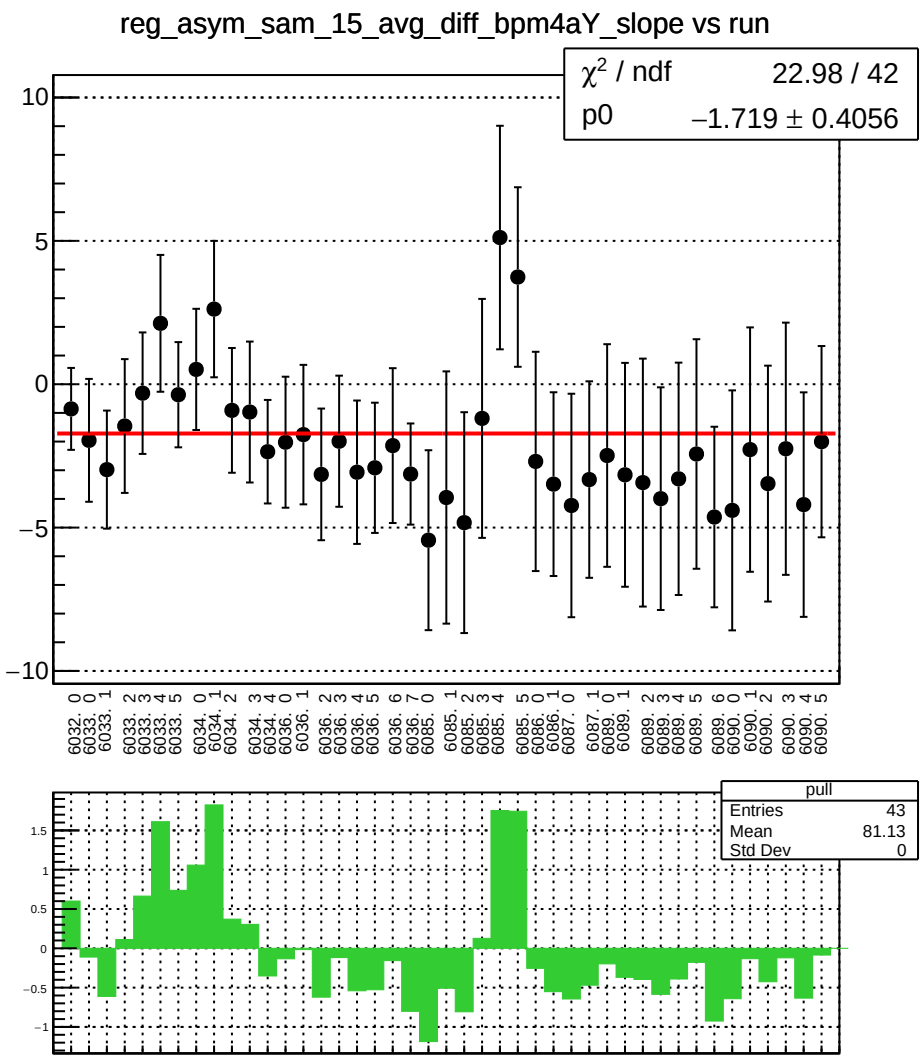

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.15 / 42
p0 79.49 ± 1.365
110
100
90
80
70
60
50
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 130.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.03076
Std Dev 0.9896
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

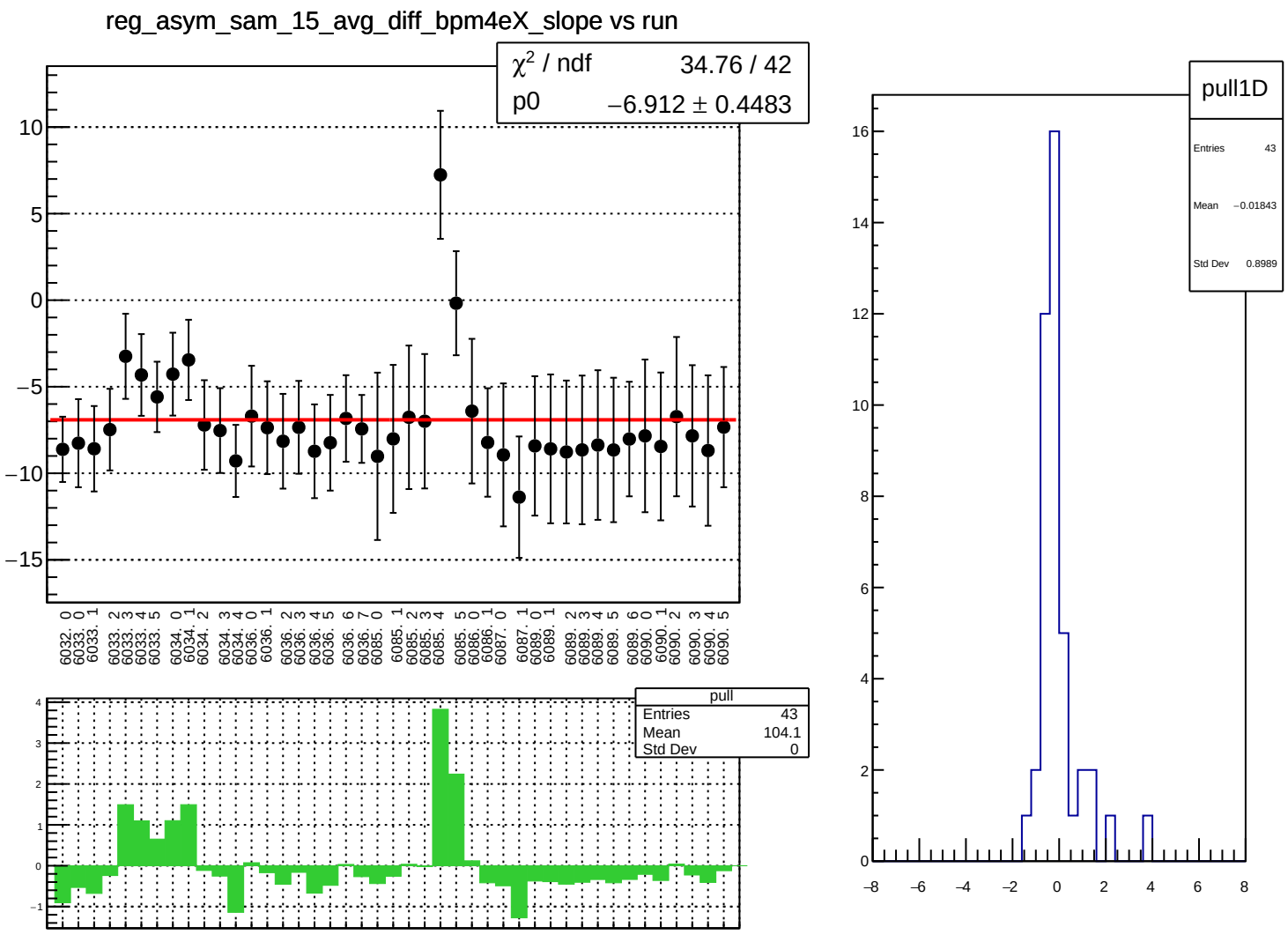

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.67 / 42
p0 3.065 ± 1.35
pull
Entries 43
Mean 2167
Std Dev 0
pull1D
Entries 43
Mean −0.001307
Std Dev 0.7575

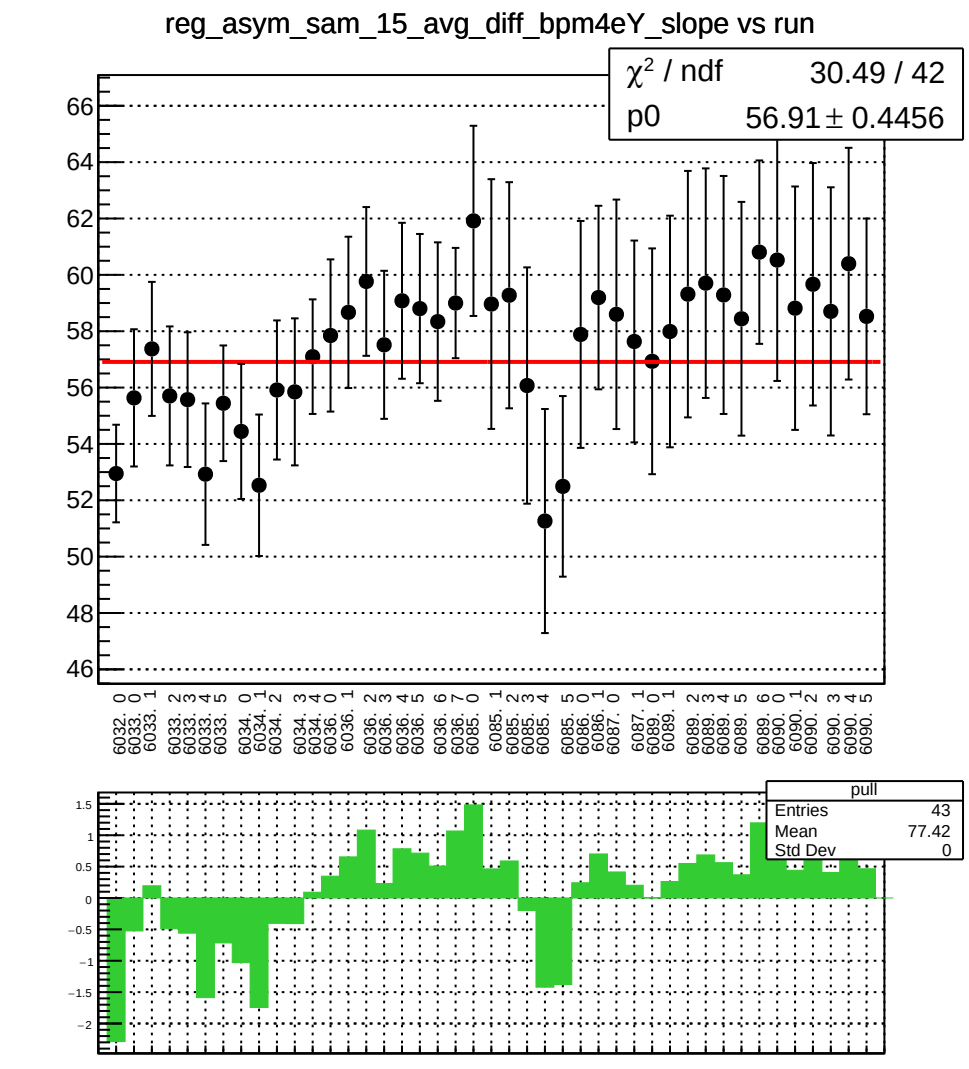

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 56.69 / 42
p0 −20.17 ± 0.1119
−18
−19
−20
−21
−22
−23
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −211
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04247
Std Dev 1.147
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

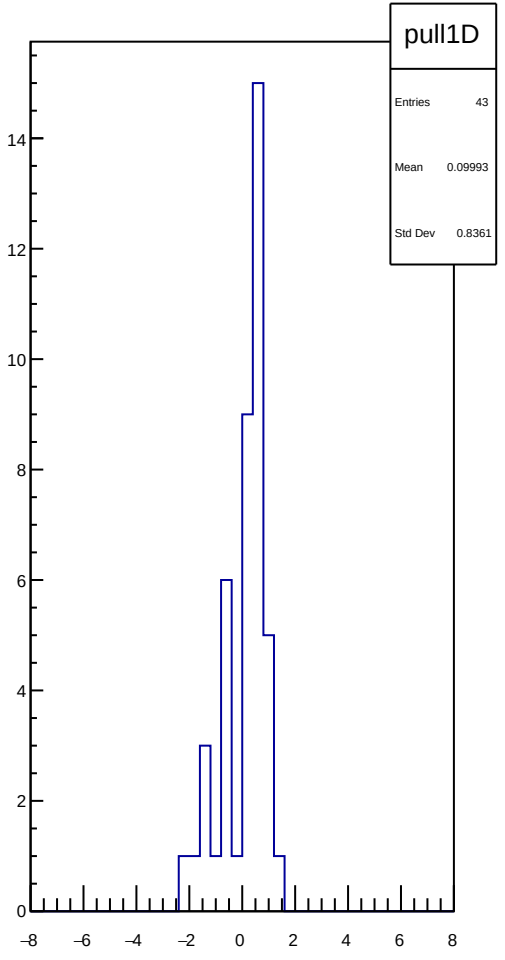

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 33.65 / 42
p0 −2.968 ± 0.4214
pull
Entries 43
Mean 99.32
Std Dev 0

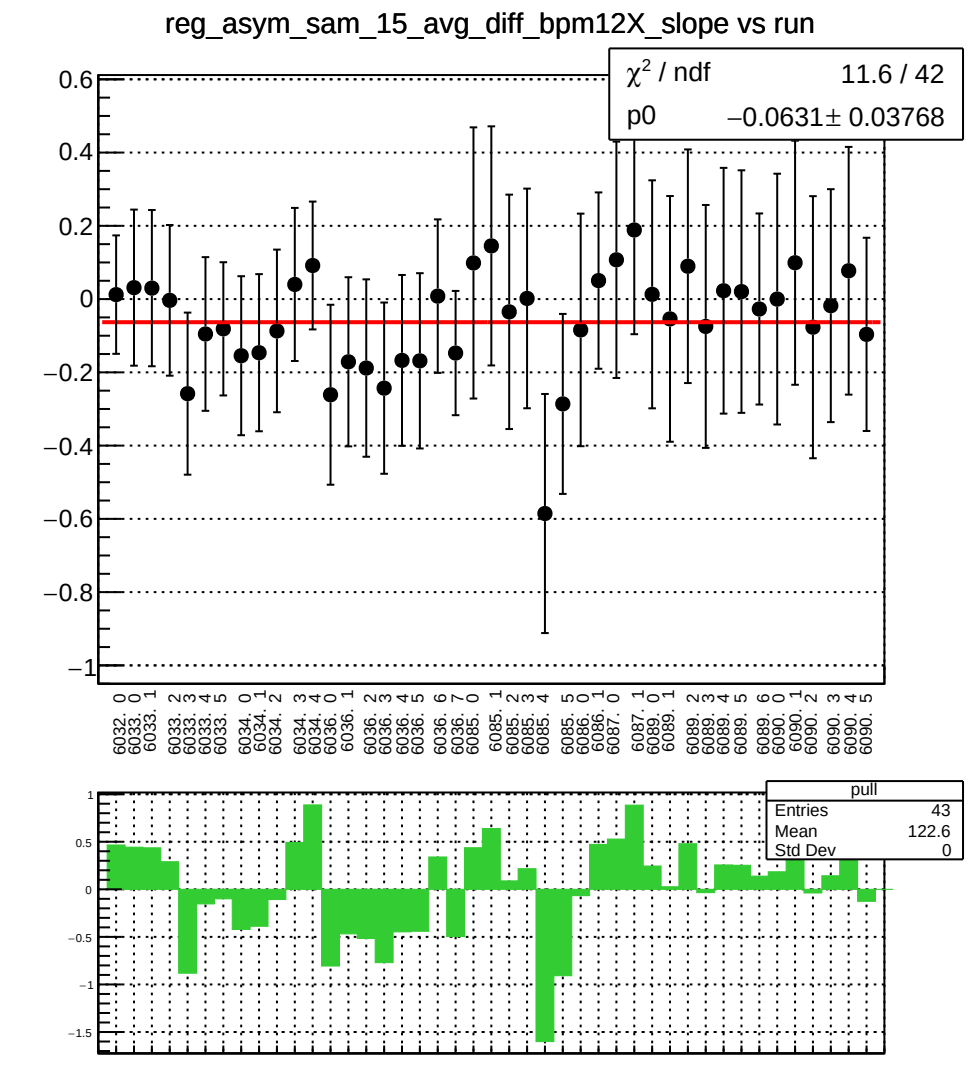

pull1D
Entries 43
Mean 0.02192
Std Dev 0.8843

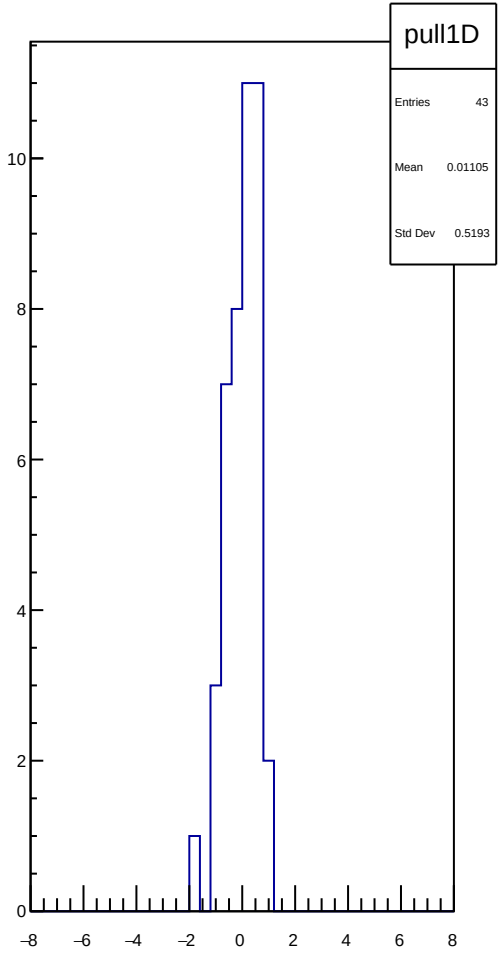

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.98 / 42
p0 −1.719 ± 0.4056
10
5
0
−5
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 81.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05991
Std Dev 0.7286
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.76 / 42
p0 −6.912 ± 0.4483
10
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 104.1
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.01843
Std Dev 0.8989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

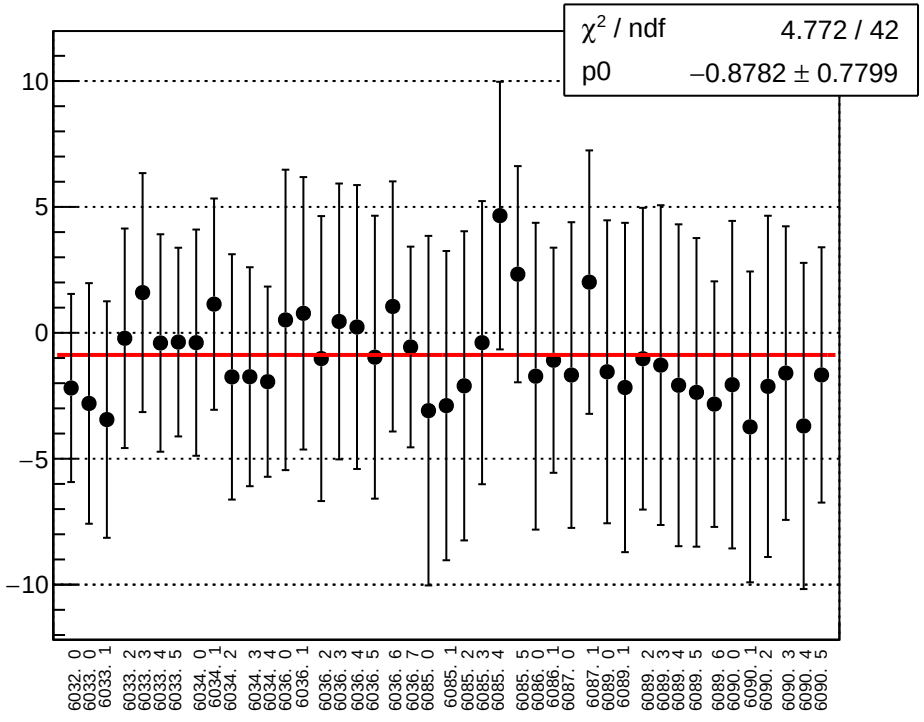

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.49 / 42
p0 56.91 ± 0.4456
pull
Entries 43
Mean 77.42
Std Dev 0

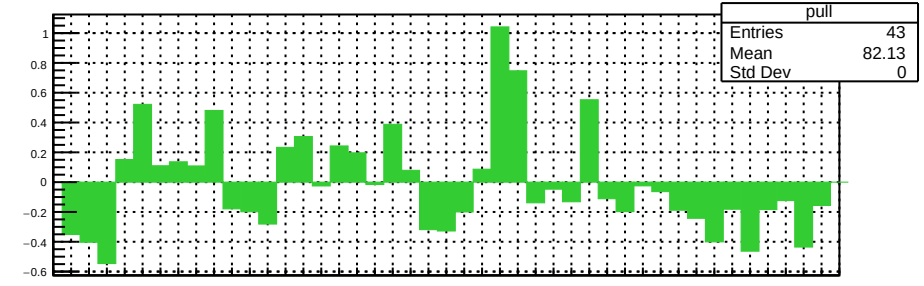

pull1D
Entries 43
Mean 0.09993
Std Dev 0.8361

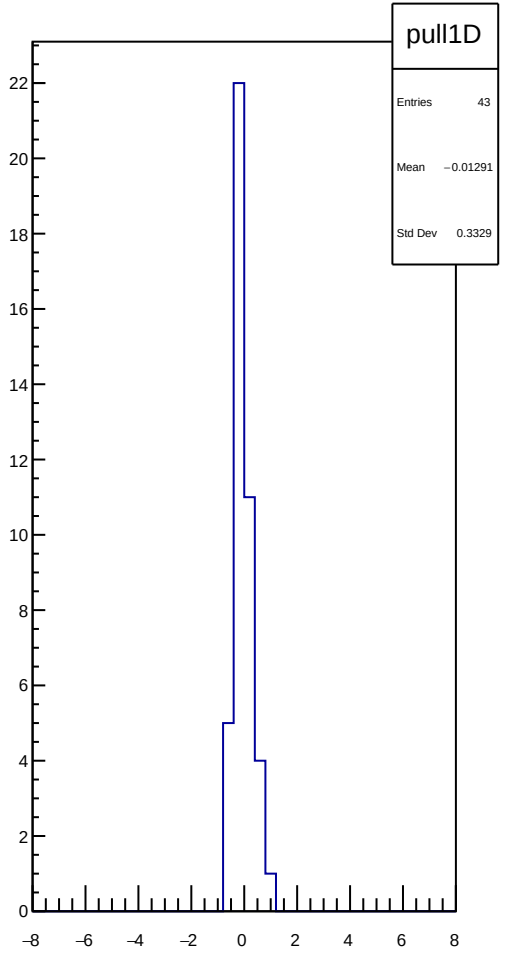

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 11.6 / 42
p0 −0.0631 ± 0.03768
pull
Entries 43
Mean 122.6
Std Dev 0

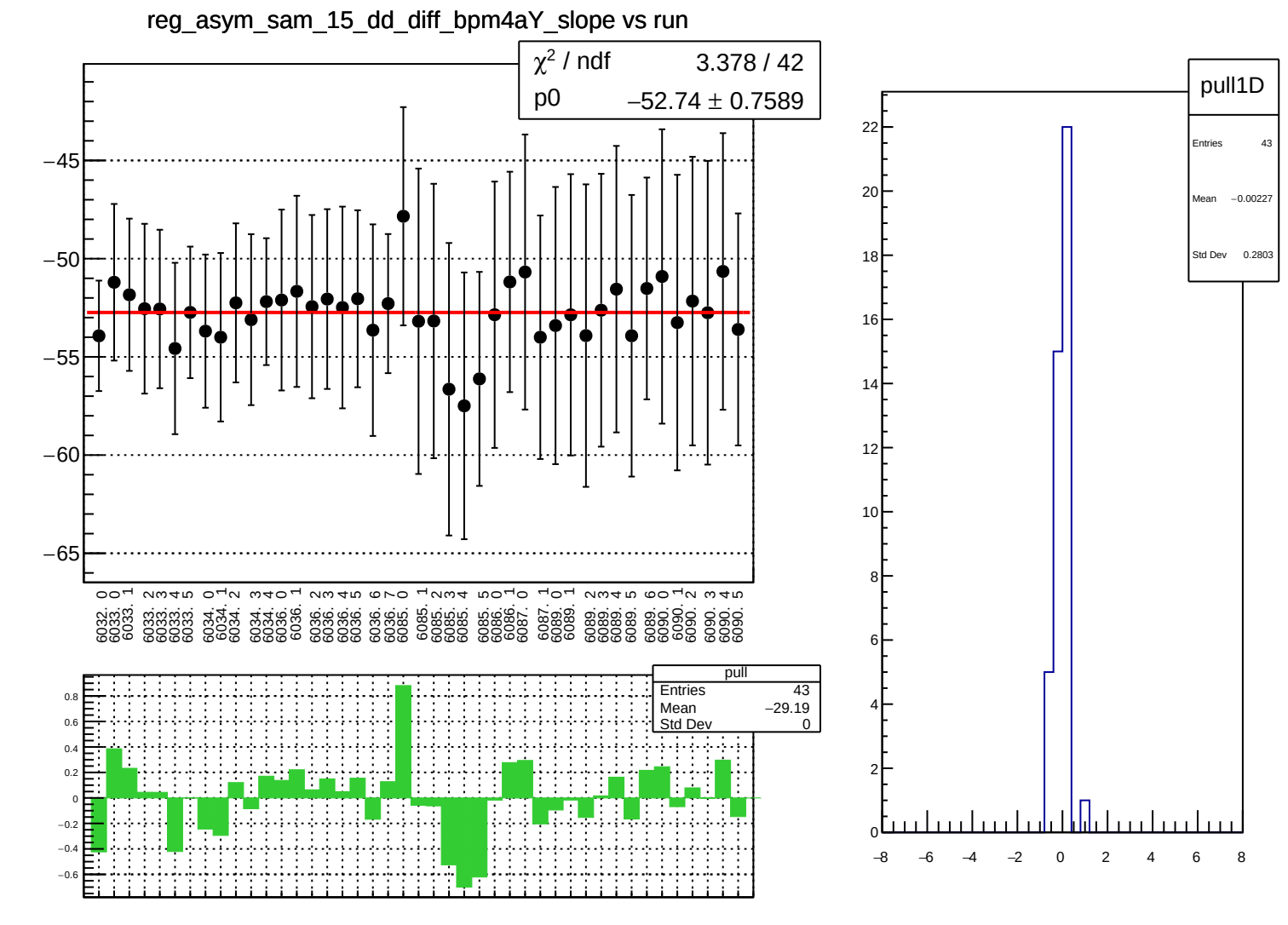

pull1D
Entries 43
Mean 0.01105
Std Dev 0.5193

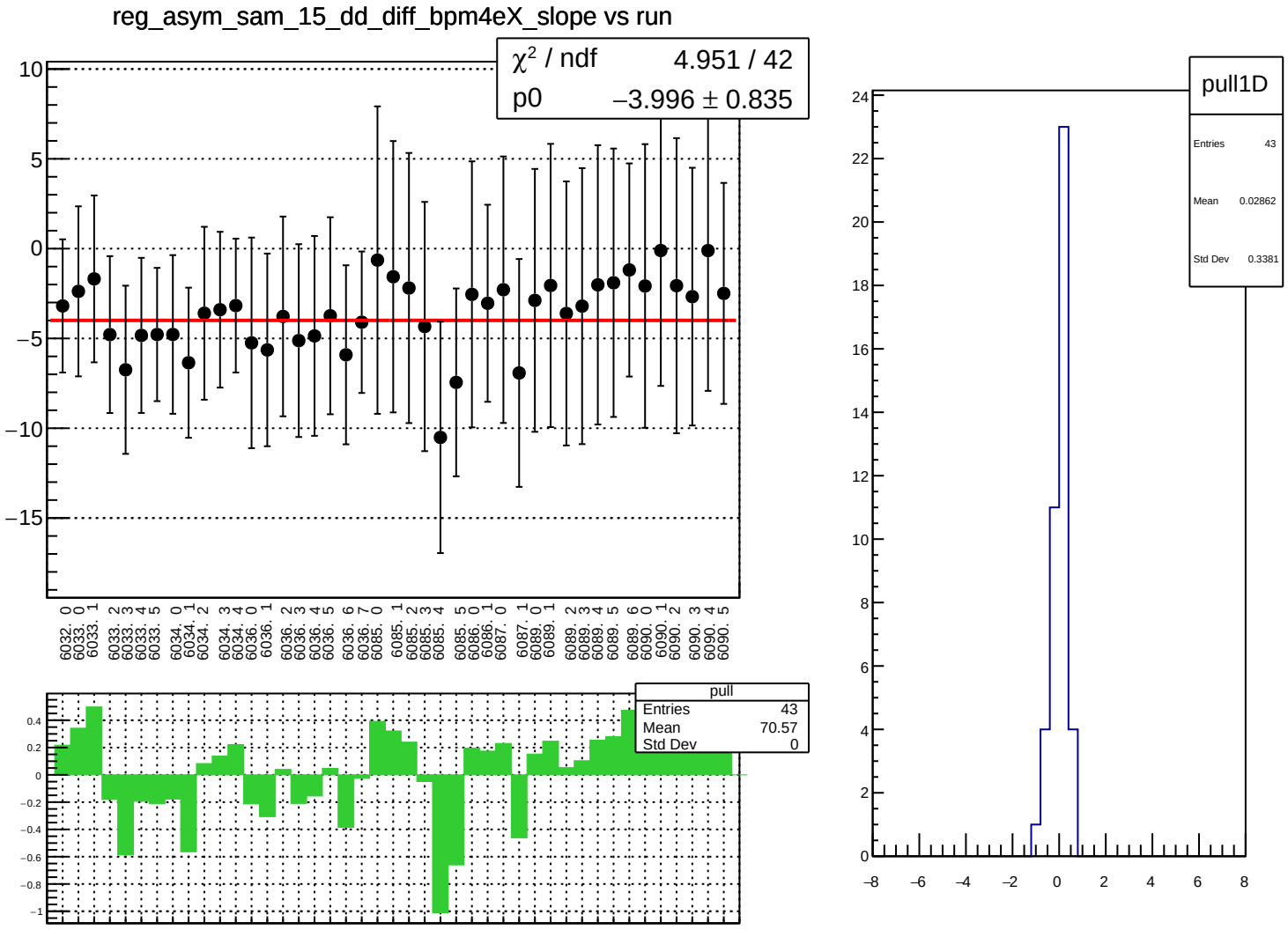
reg_asym_sam_15_dd_diff_bpm1X_slope vs run

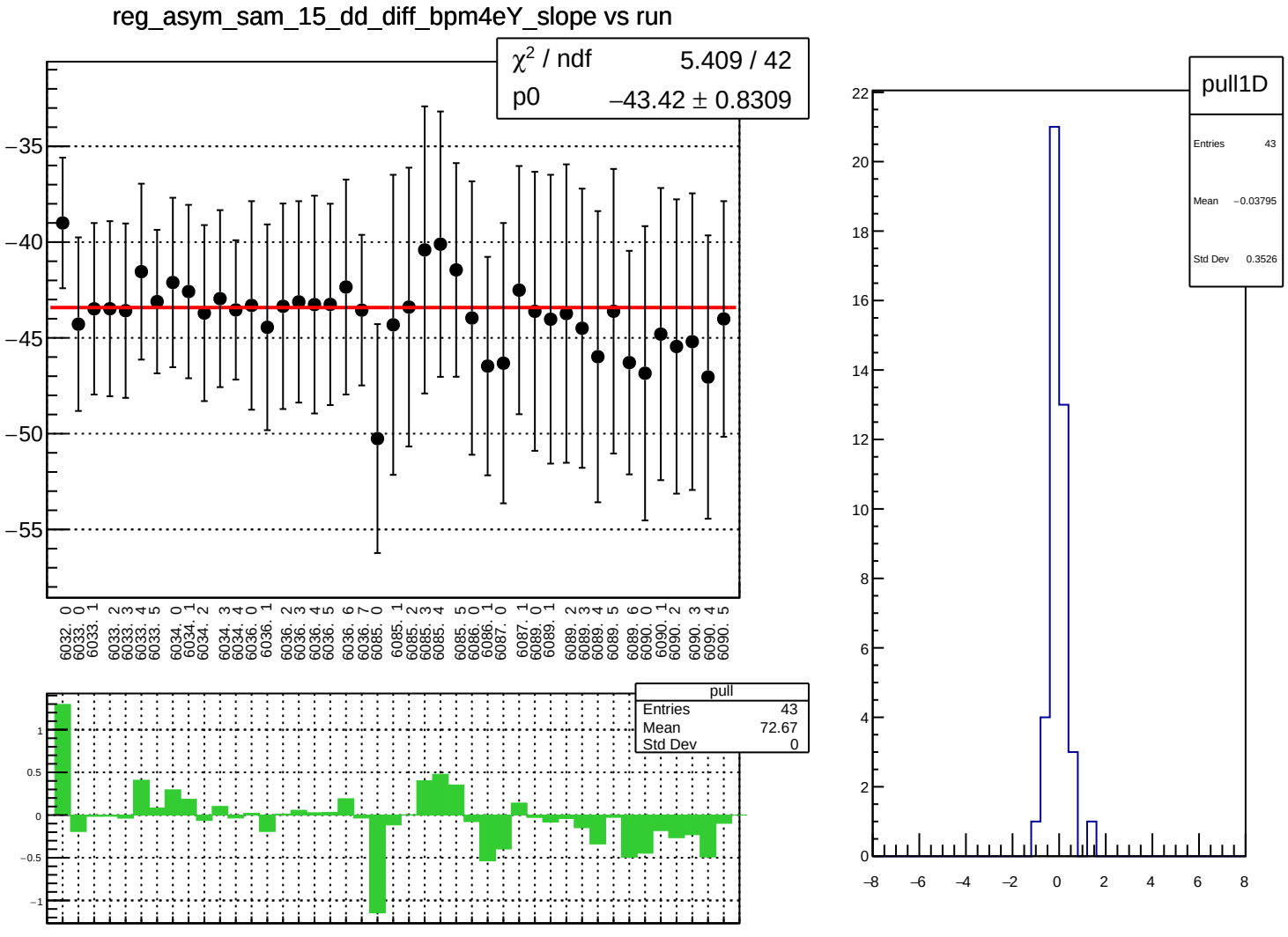


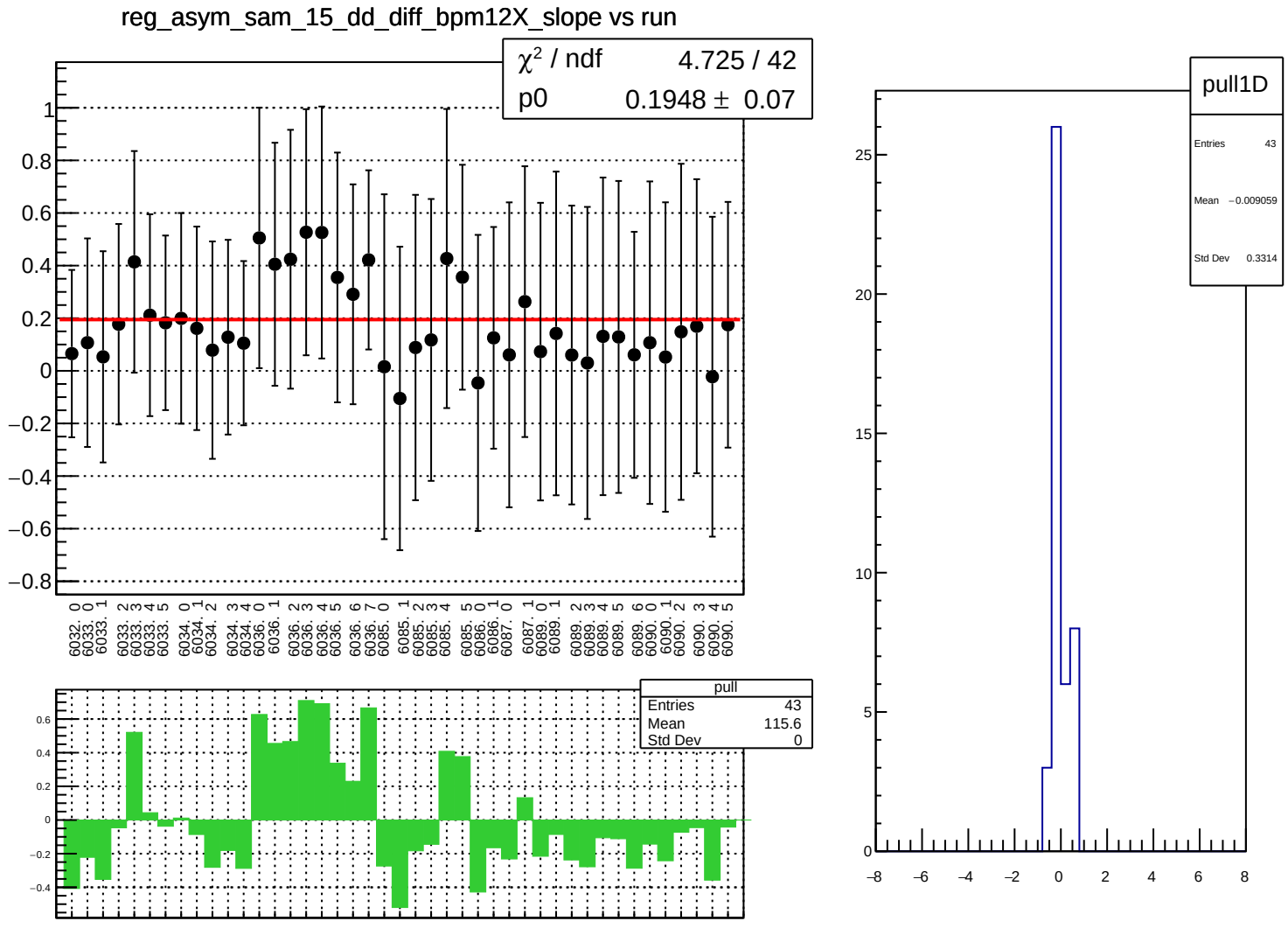


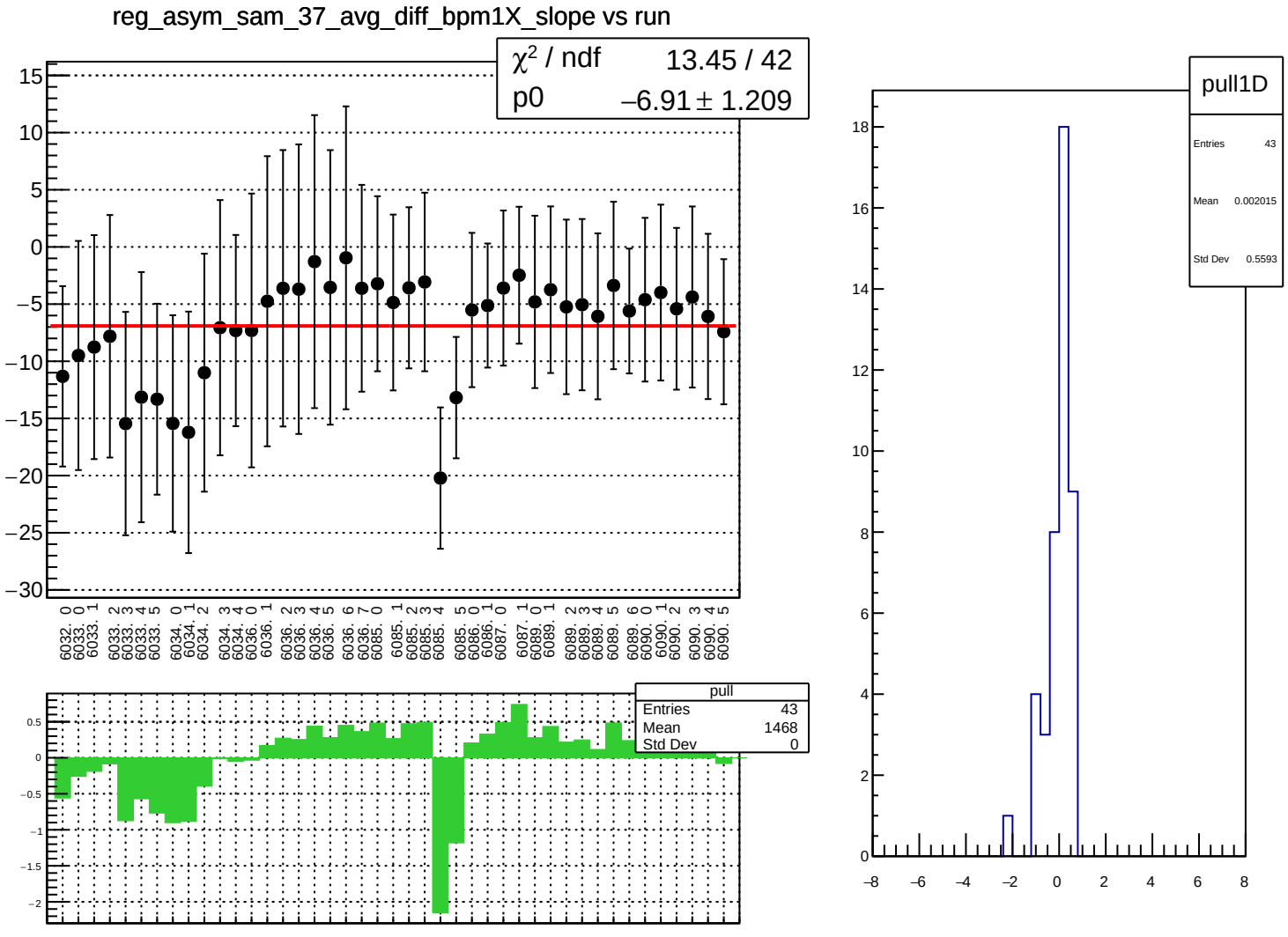


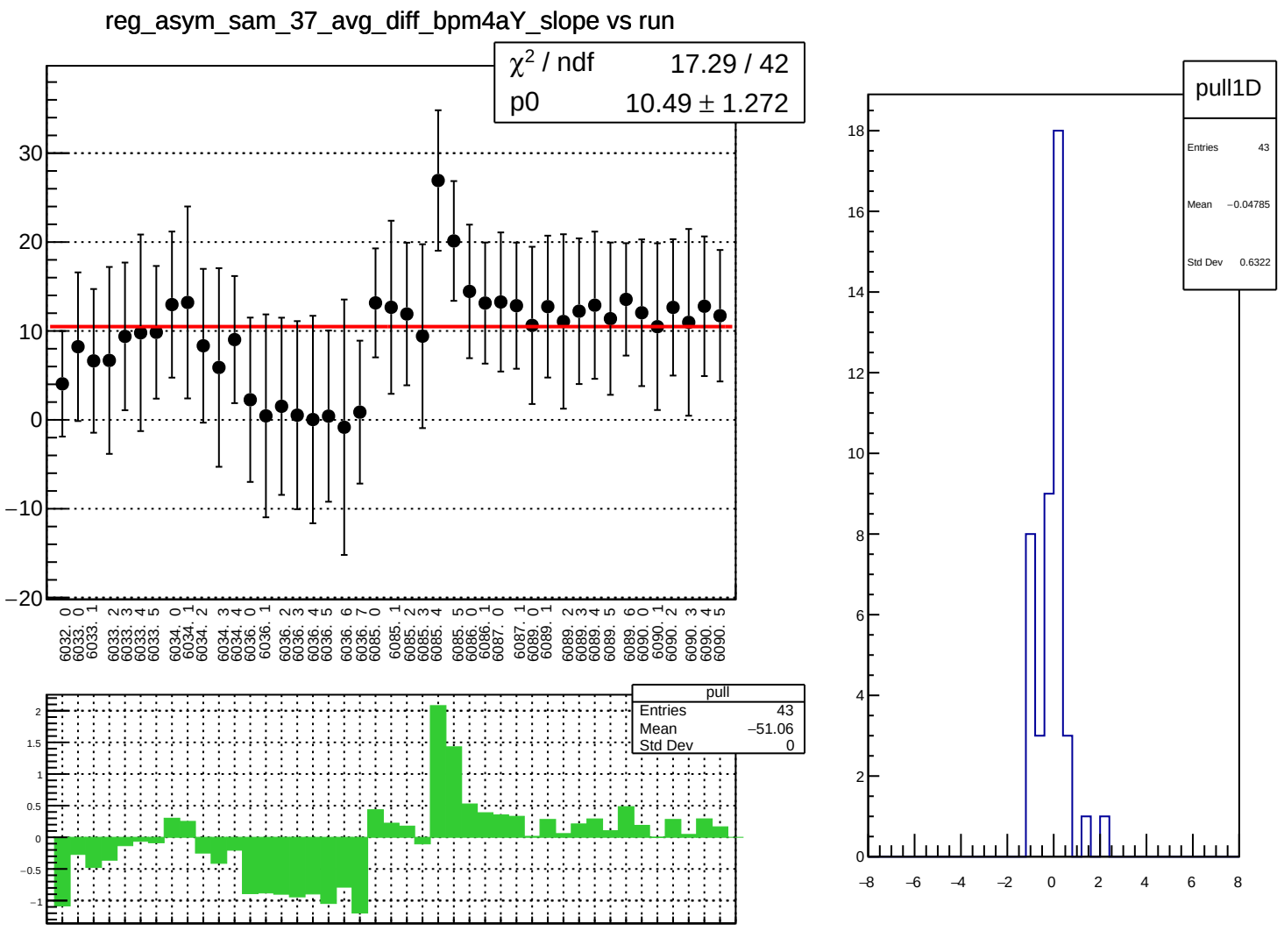

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.378 / 42
p0 −52.74 ± 0.7589
−45
−50
−55
−60
−65
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −29.19
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.00227
Std Dev 0.2803
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

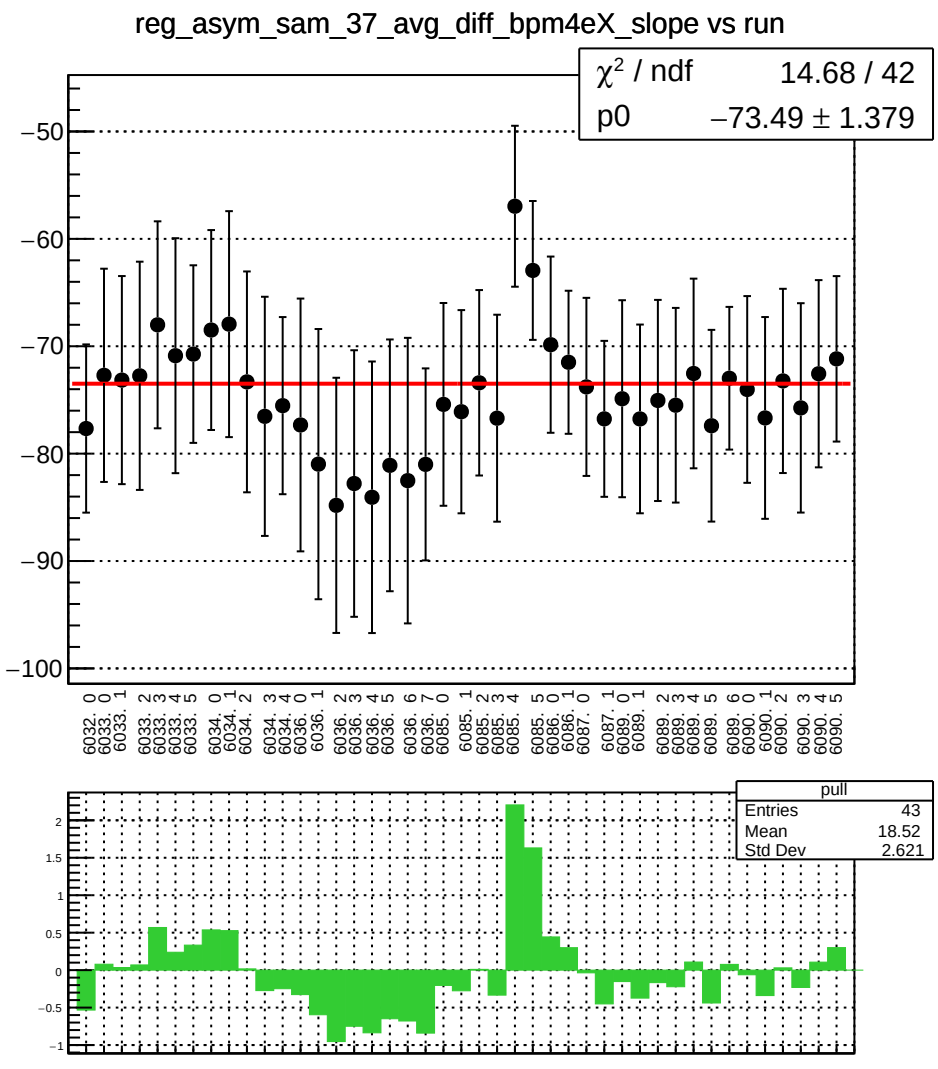

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.951 / 42
p0 −3.996 ± 0.835
pull
Entries 43
Mean 70.57
Std Dev 0
pull1D
Entries 43
Mean 0.02862
Std Dev 0.3381

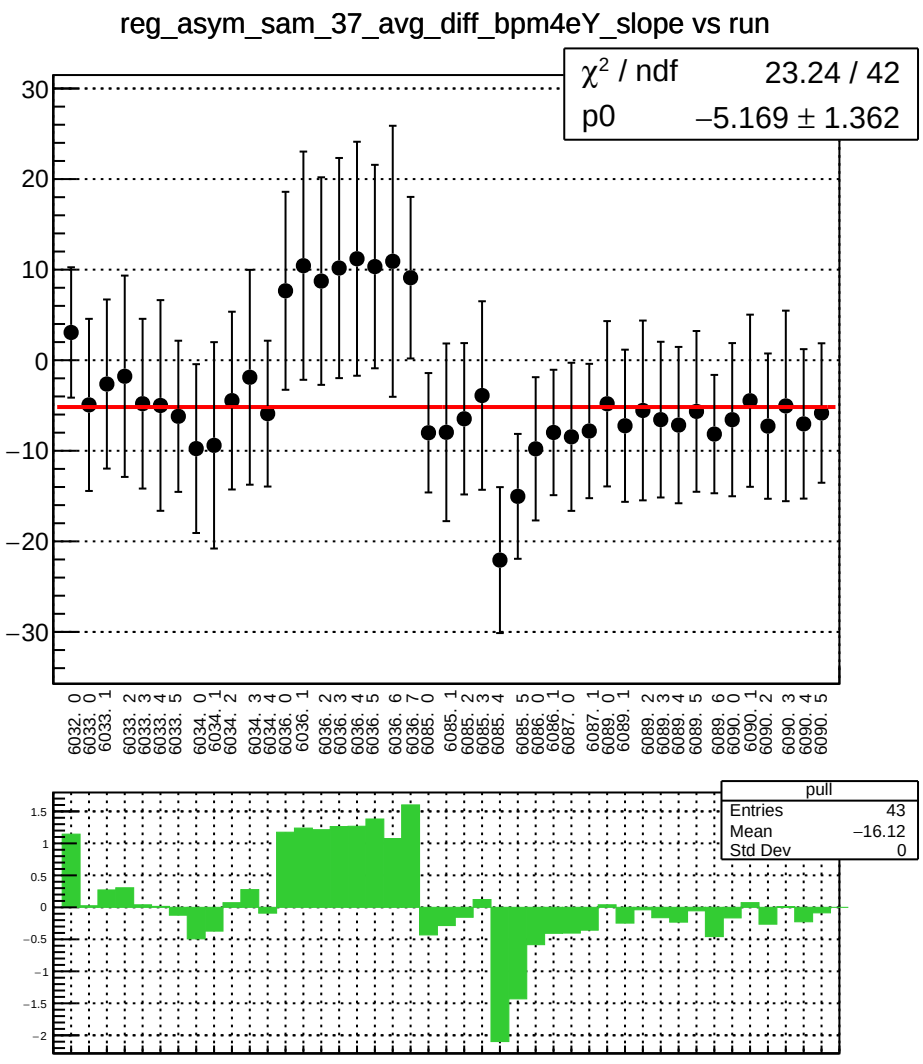

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.409 / 42
p0 −43.42 ± 0.8309
−35
−40
−45
−50
−55
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 72.67
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.03795
Std Dev 0.3526
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

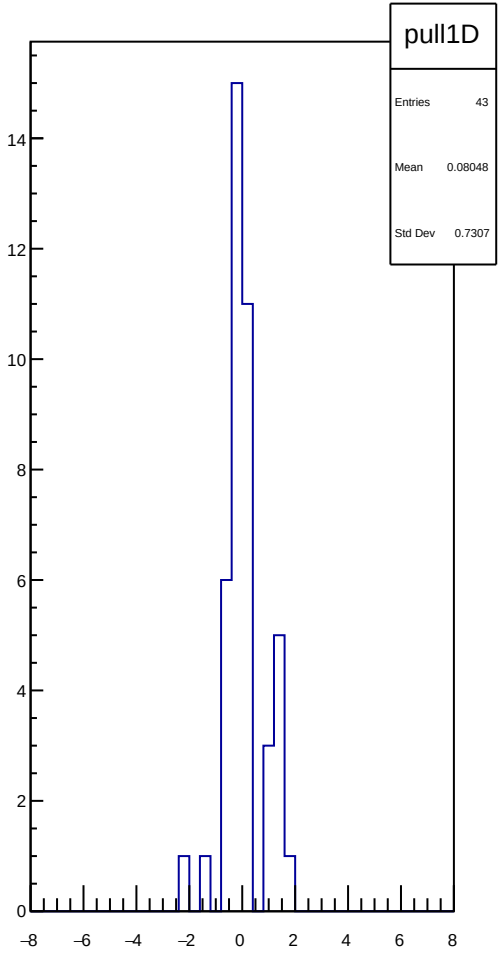

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.725 / 42
p0 0.1948 ± 0.07
pull
Entries 43
Mean 115.6
Std Dev 0
pull1D
Entries 43
Mean −0.009059
Std Dev 0.3314

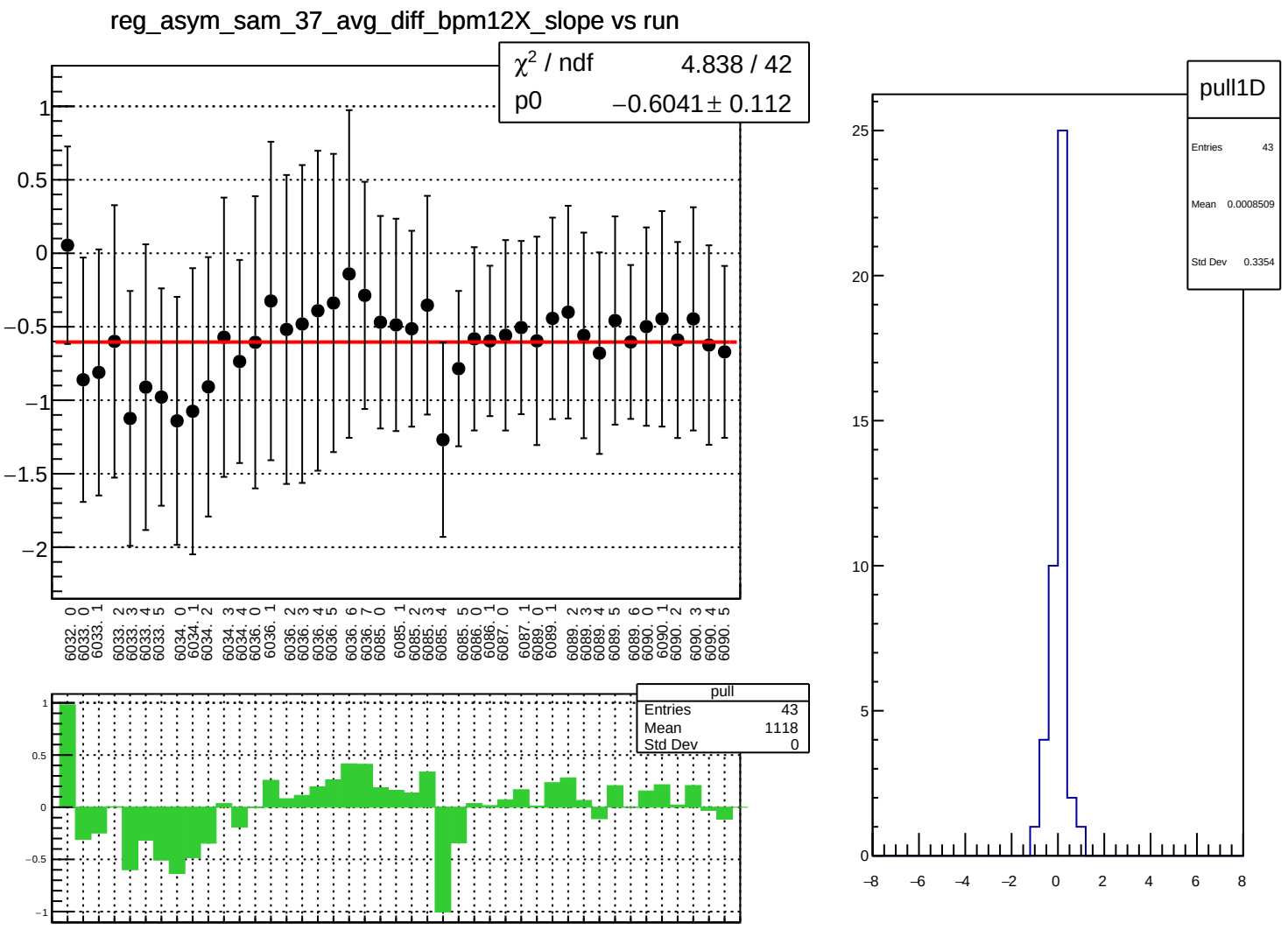

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 13.45 / 42
p0 −6.91 ± 1.209
pull
Entries 43
Mean 1468
Std Dev 0
pull1D
Entries 43
Mean 0.002015
Std Dev 0.5593

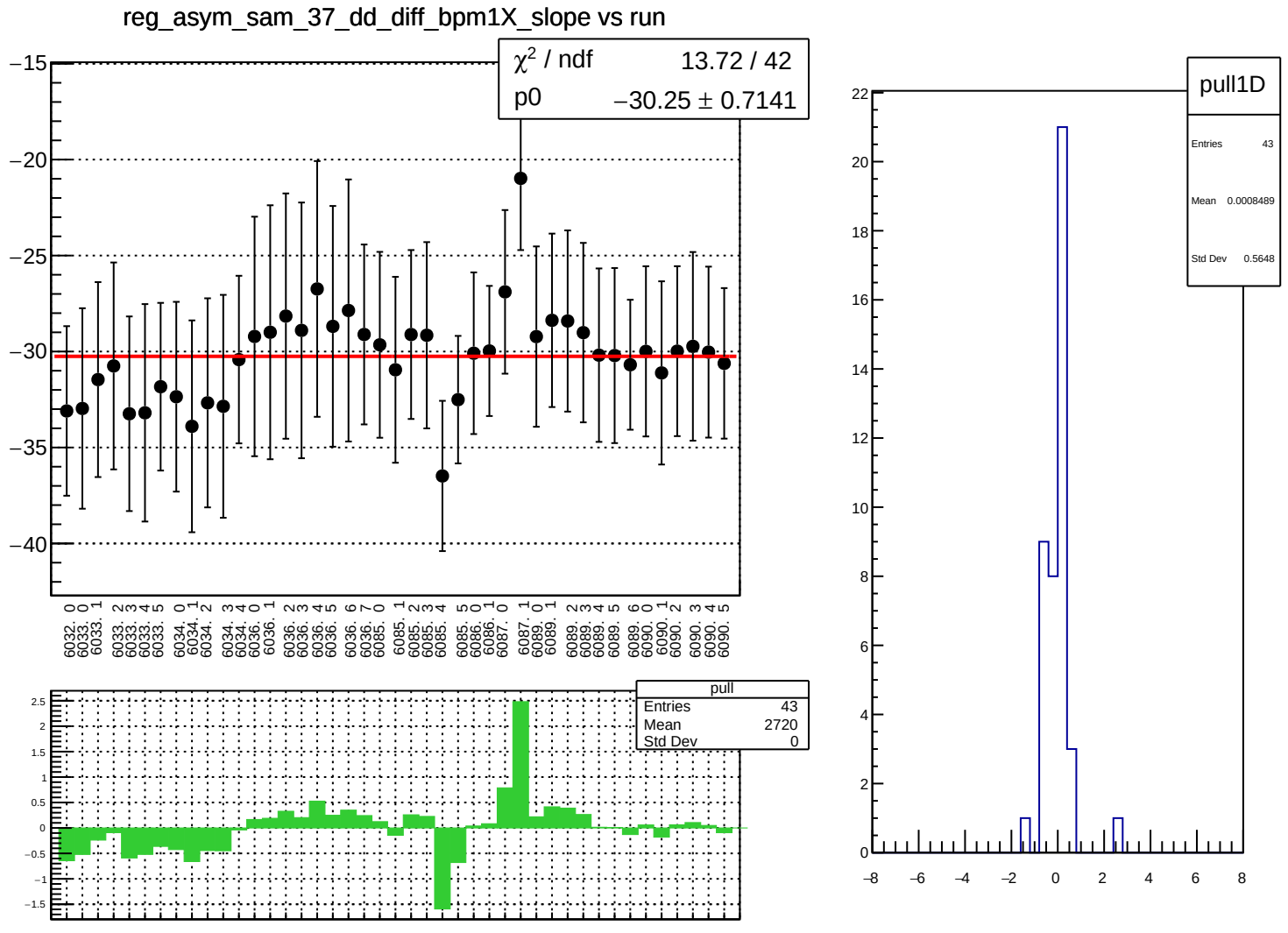

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.29 / 42
p0 10.49 ± 1.272
pull
Entries 43
Mean −51.06
Std Dev 0
pull1D
Entries 43
Mean −0.04785
Std Dev 0.6322

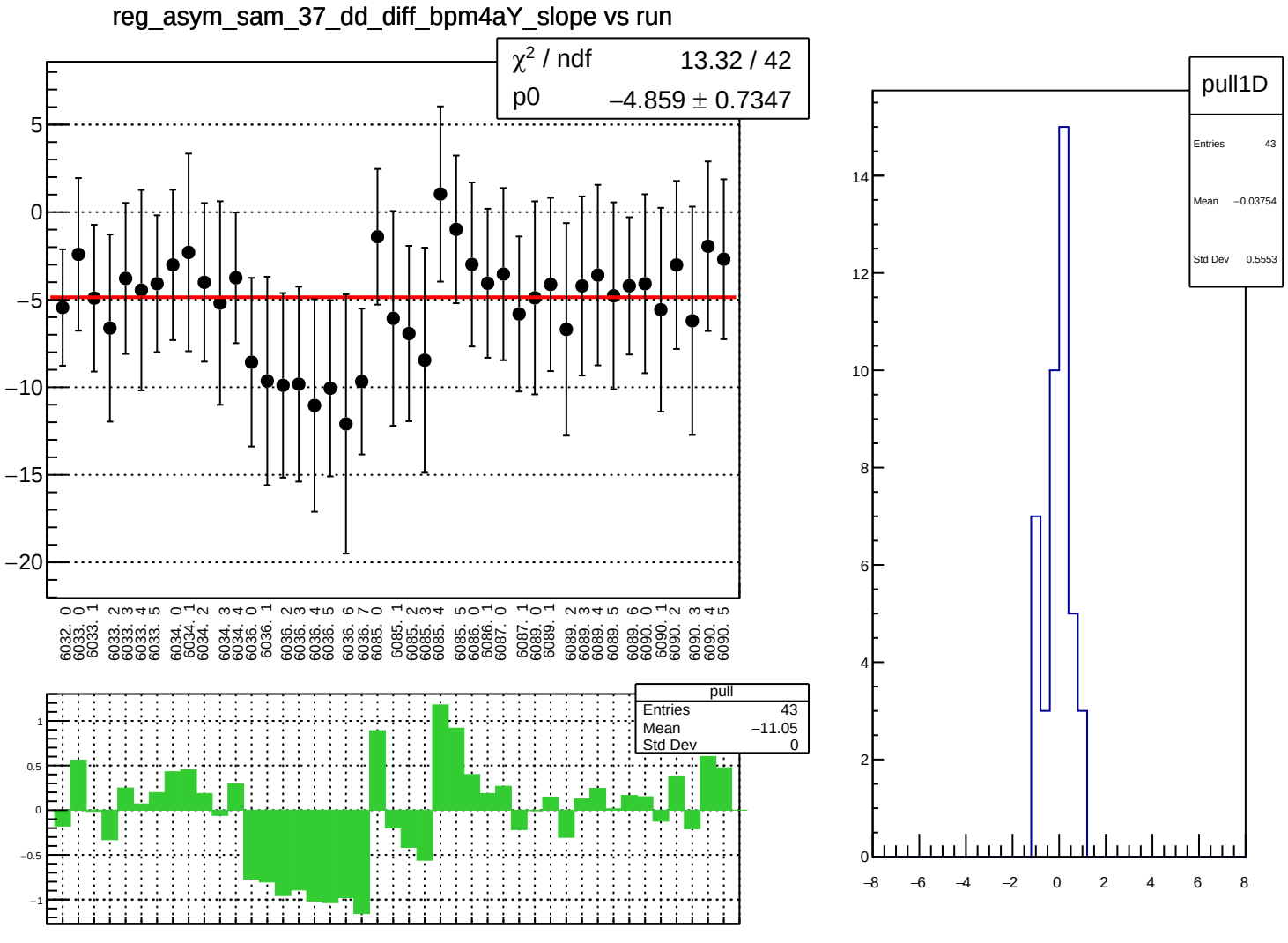

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.68 / 42
p0 −73.49 ± 1.379
−50
−60
−70
−80
−90
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 18.52
Std Dev 2.621
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05466
Std Dev 0.5816
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

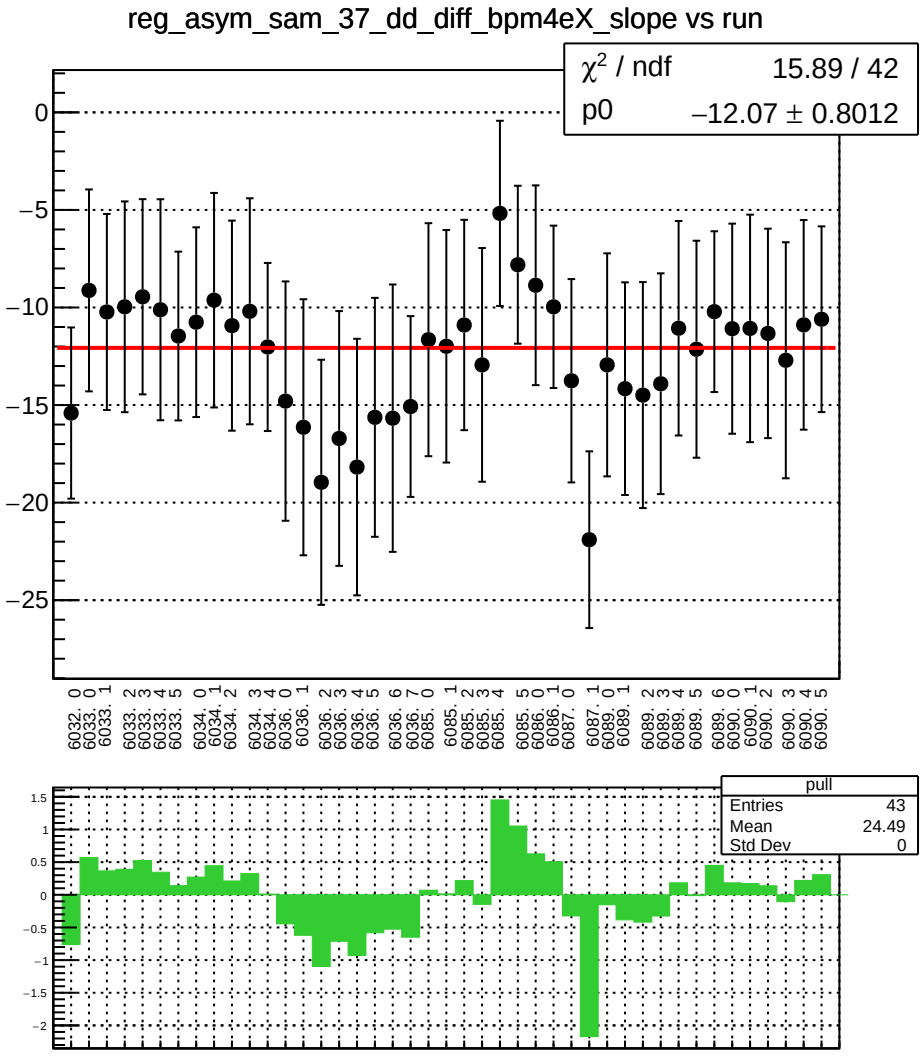

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.24 / 42
p0 −5.169 ± 1.362
pull
Entries 43
Mean −16.12
Std Dev 0

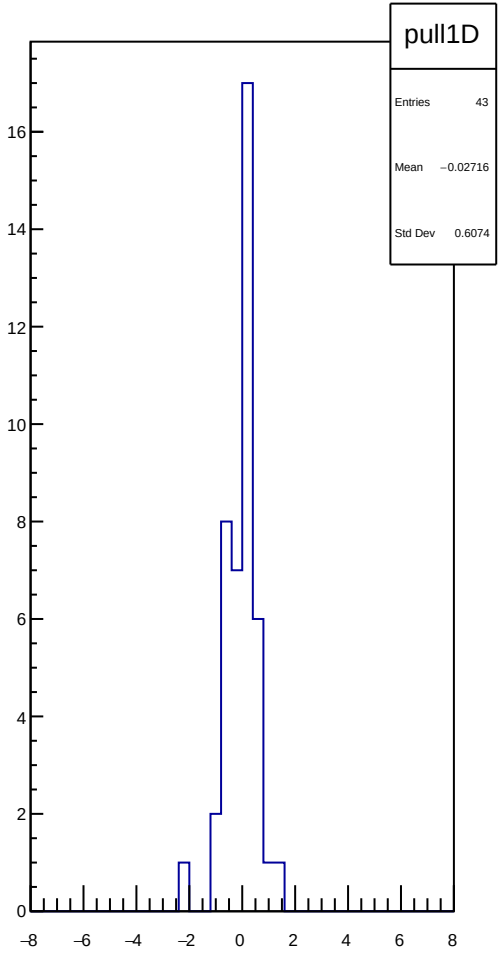

pull1D
Entries 43
Mean 0.08048
Std Dev 0.7307

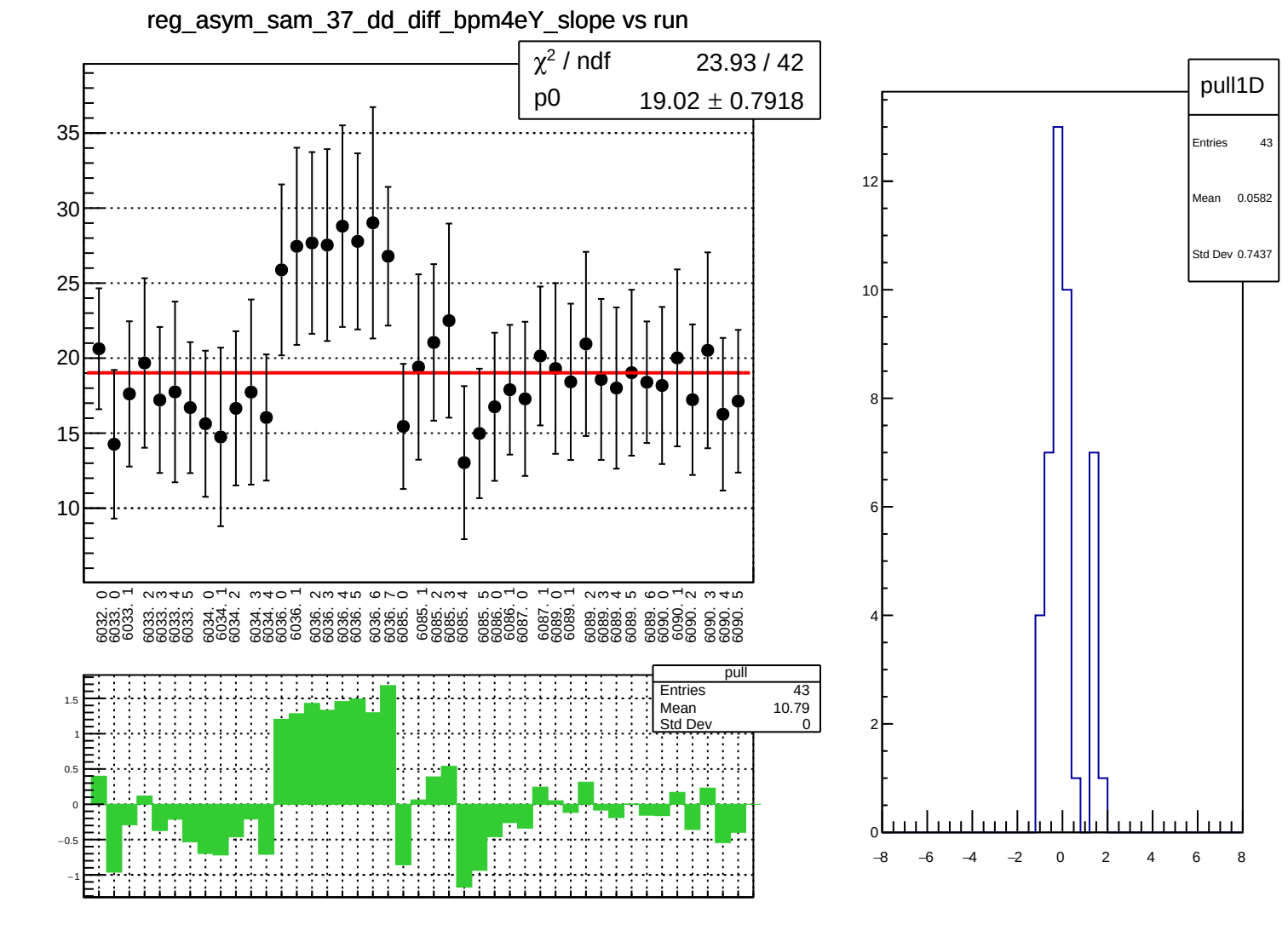

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.838 / 42
p0 −0.6041 ± 0.112
pull
Entries 43
Mean 1118
Std Dev 0
pull1D
Entries 43
Mean 0.0008509
Std Dev 0.3354

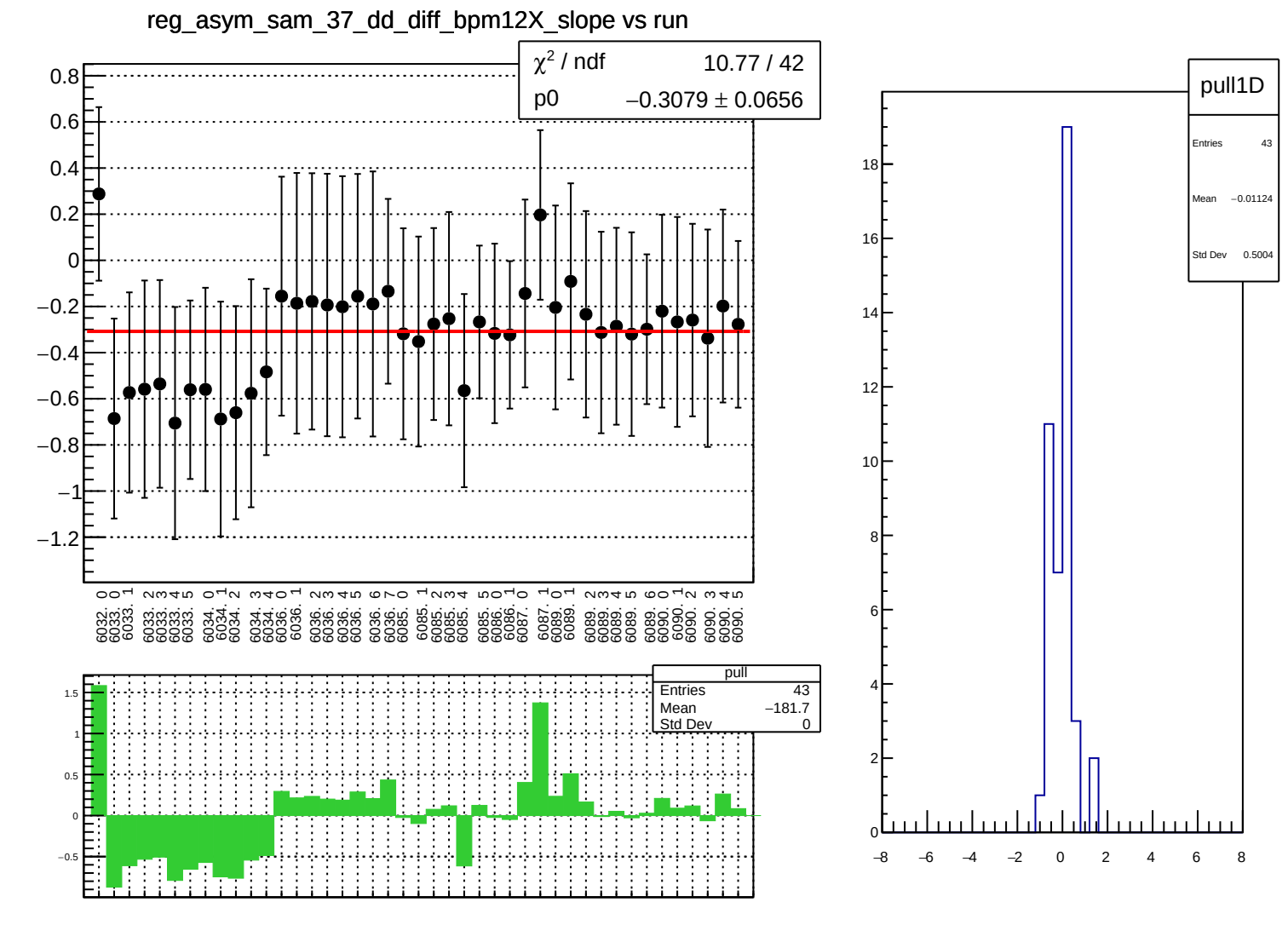

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 13.72 / 42
p0 −30.25 ± 0.7141
pull
Entries 43
Mean 2720
Std Dev 0
pull1D
Entries 43
Mean 0.0008489
Std Dev 0.5648

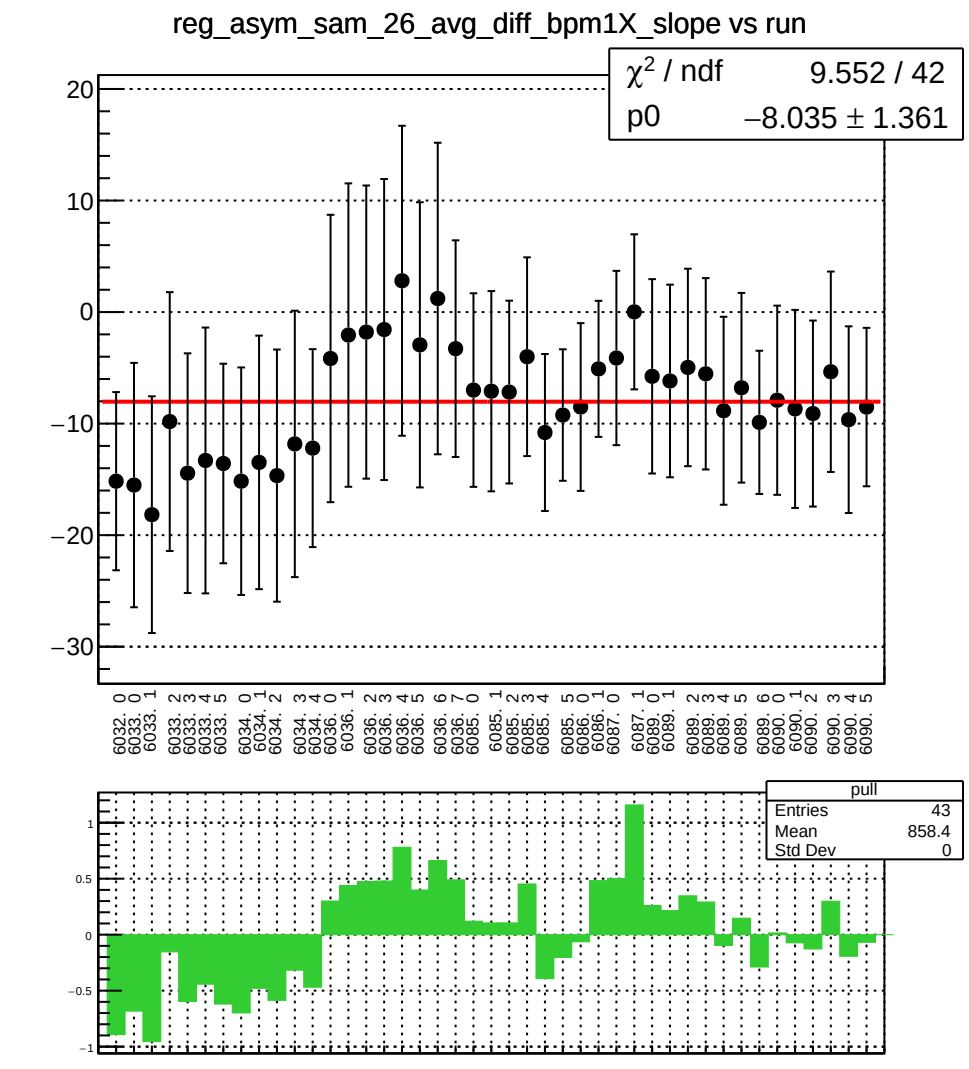

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.32 / 42
p0 −4.859 ± 0.7347
pull
Entries 43
Mean −11.05
Std Dev 0
pull1D
Entries 43
Mean −0.03754
Std Dev 0.5553

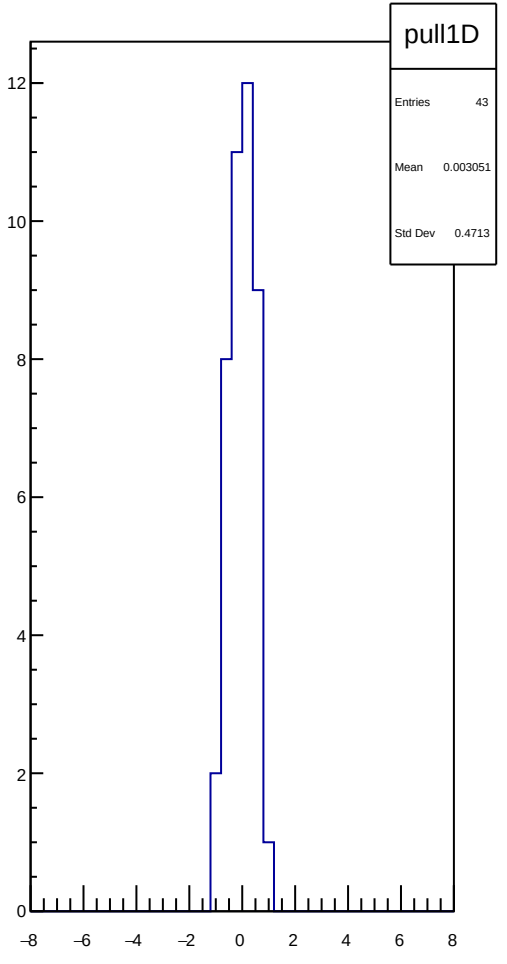

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.89 / 42
p0 −12.07 ± 0.8012
pull
Entries 43
Mean 24.49
Std Dev 0

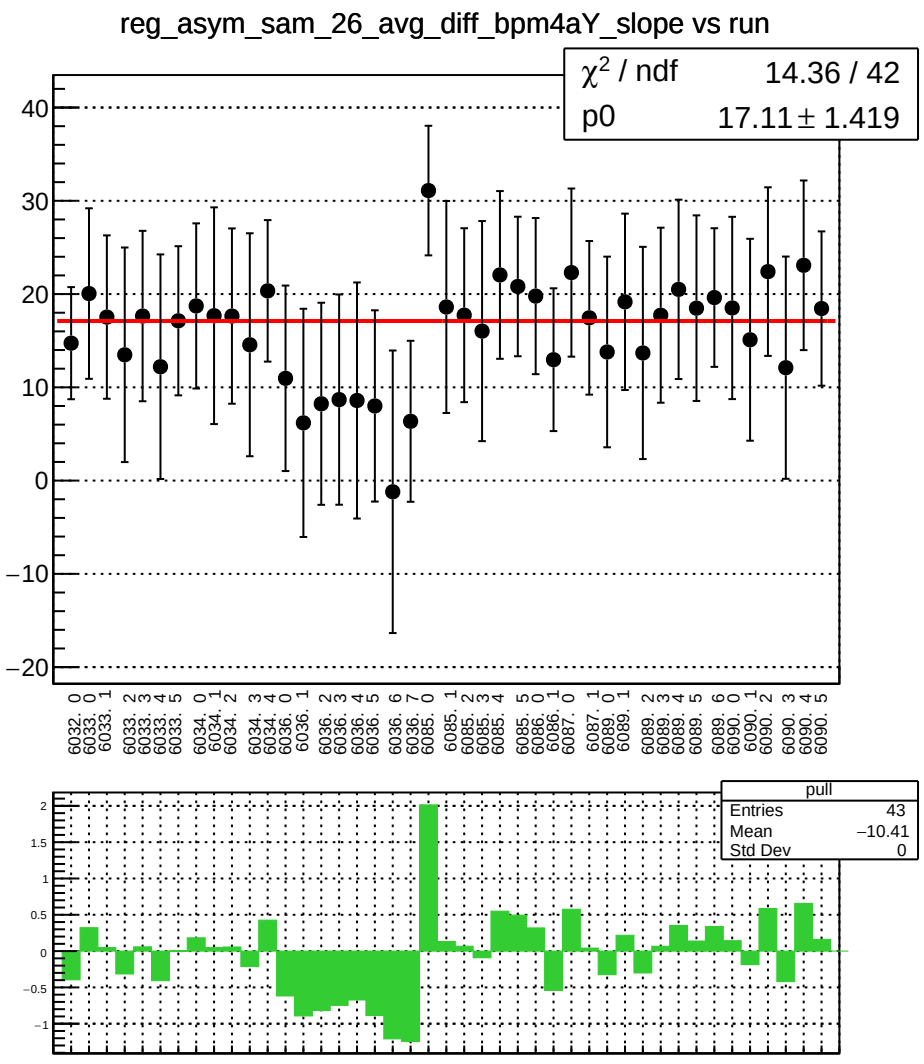

pull1D
Entries 43
Mean −0.02716
Std Dev 0.6074

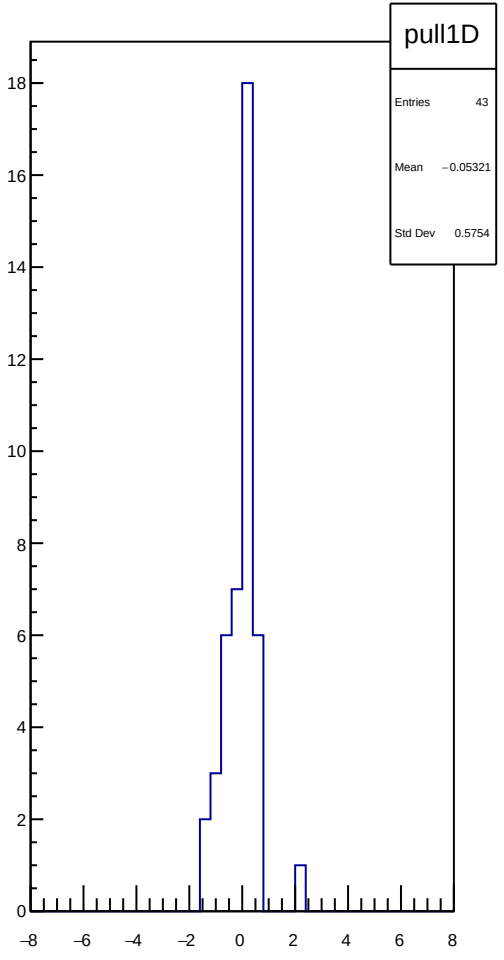

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.93 / 42
p0 19.02 ± 0.7918
35
30
25
20
15
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 10.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.0582
Std Dev 0.7437
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

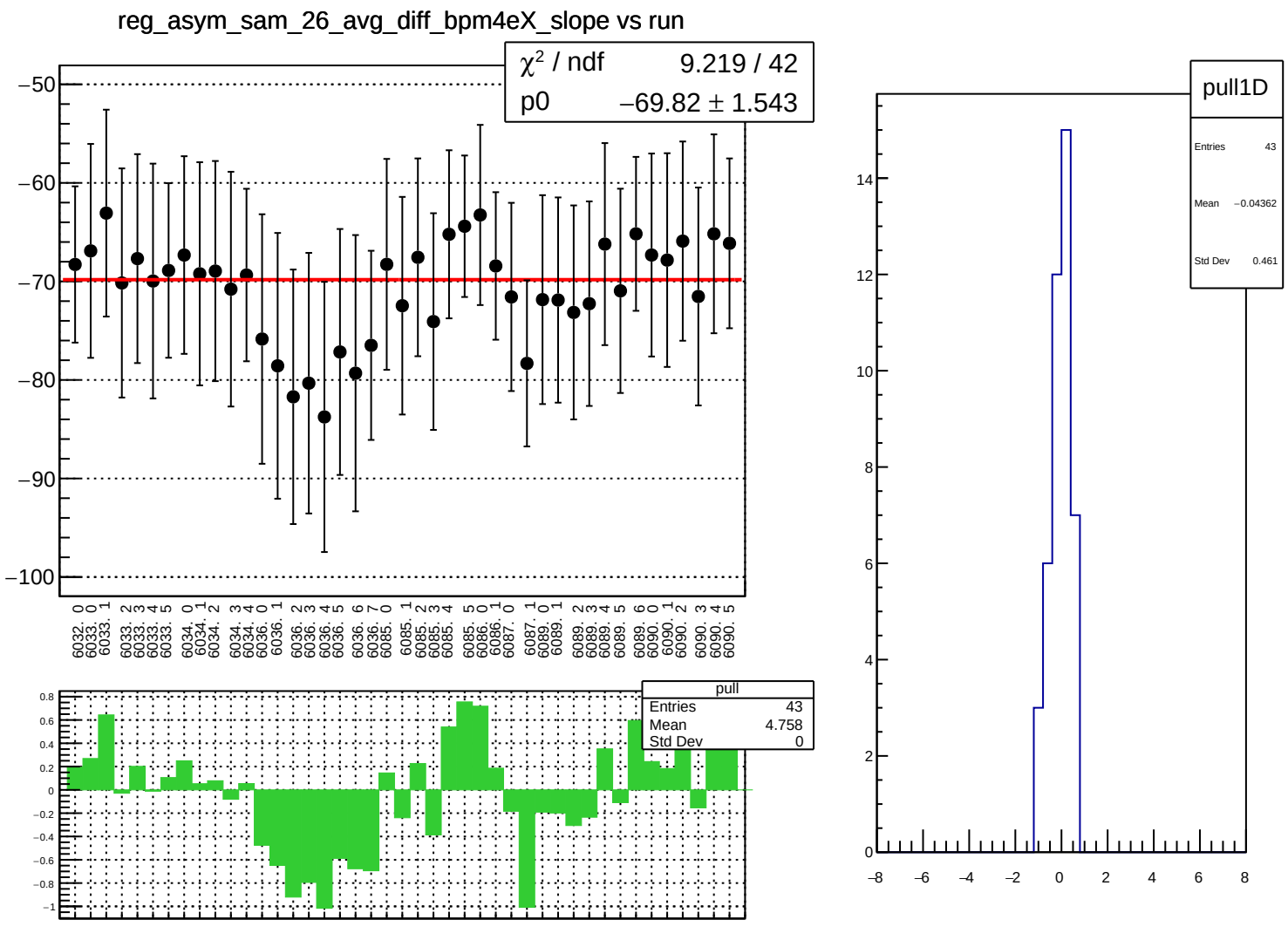

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.77 / 42
p0 −0.3079 ± 0.0656
pull
Entries 43
Mean −181.7
Std Dev 0
pull1D
Entries 43
Mean −0.01124
Std Dev 0.5004

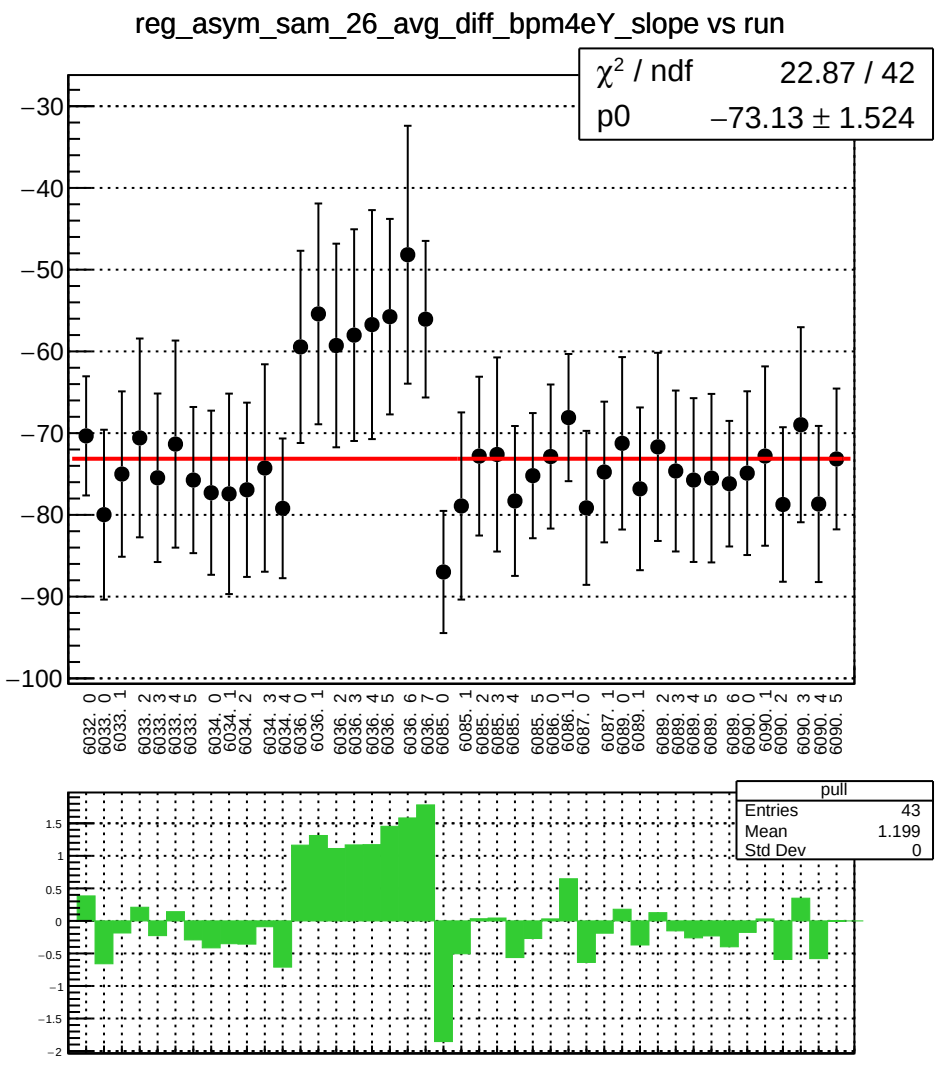

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 9.552 / 42
p0 −8.035 ± 1.361
20
10
0
−10
−20
−30
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 858.4
Std Dev 0
1
0.5
0
−0.5
−1

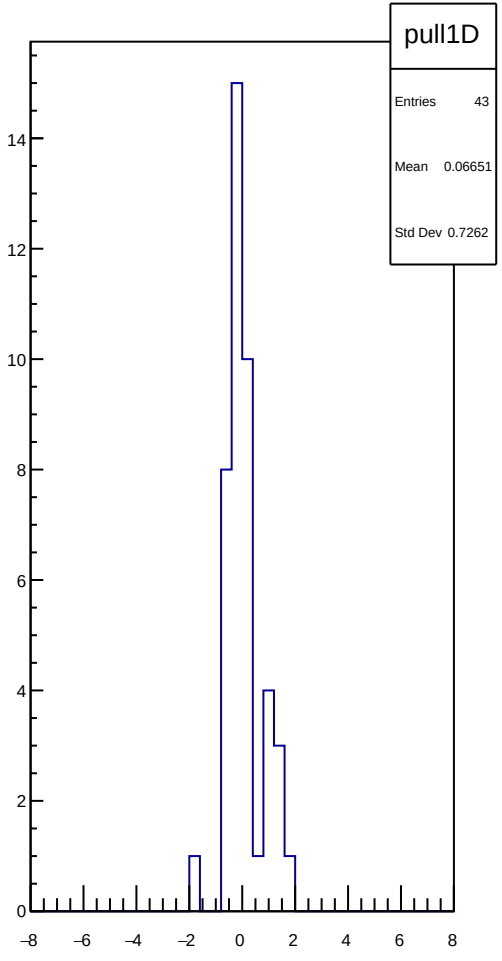

pull1D
Entries 43
Mean 0.003051
Std Dev 0.4713
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

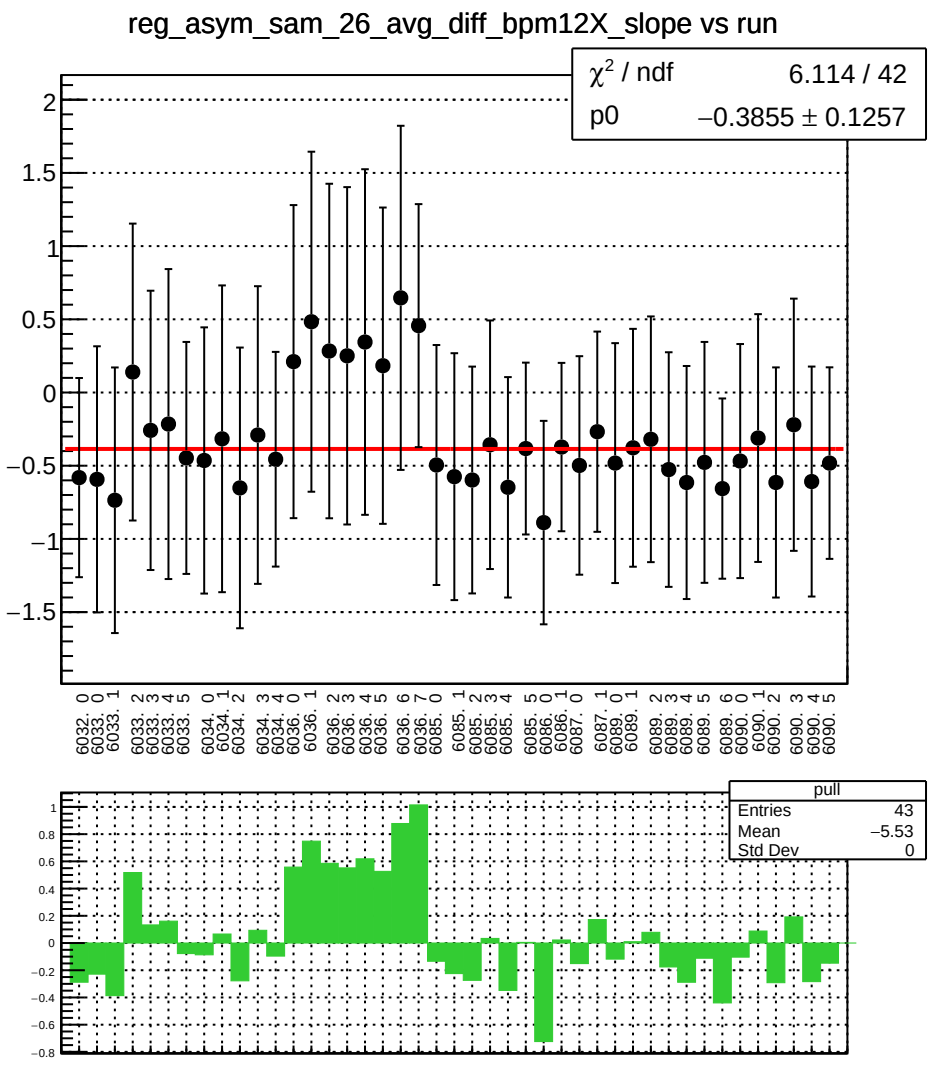

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.36 / 42
p0 17.11 ± 1.419
pull
Entries 43
Mean −10.41
Std Dev 0

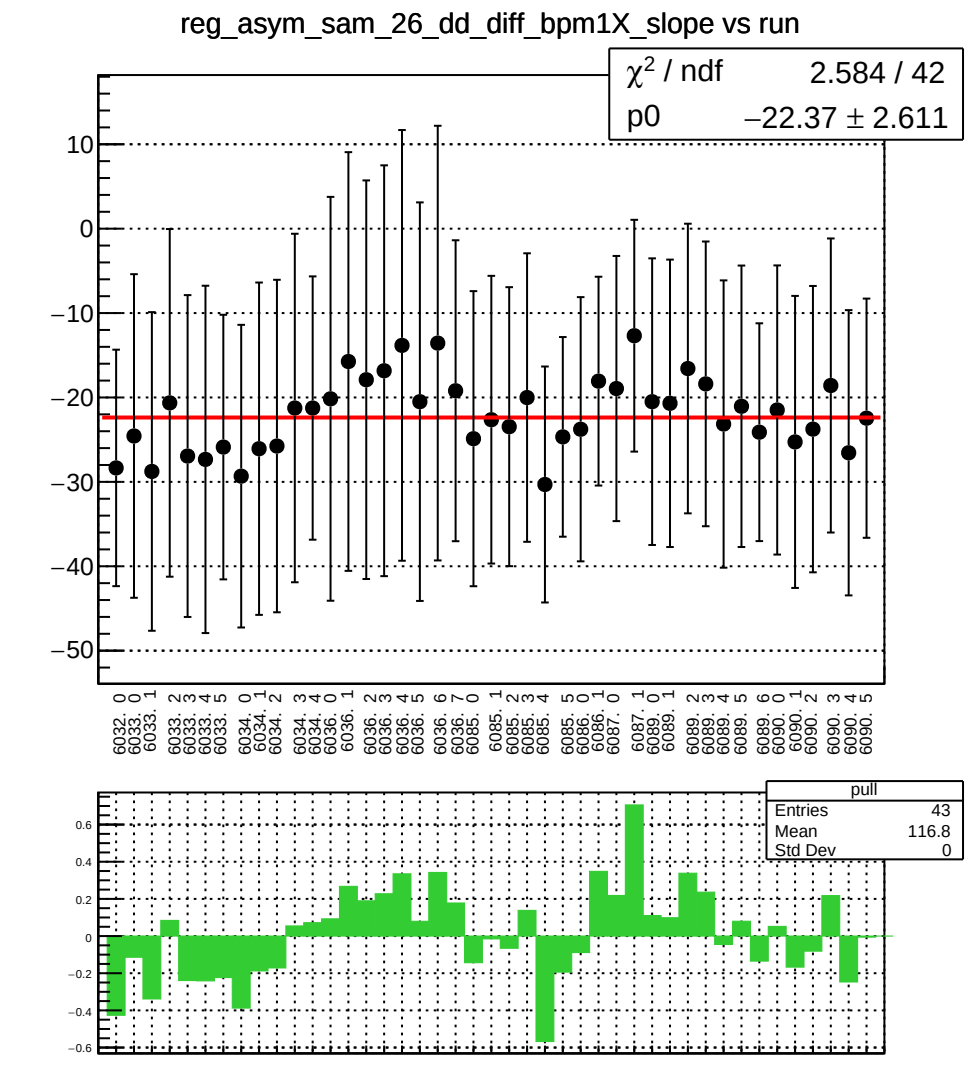

pull1D
Entries 43
Mean −0.05321
Std Dev 0.5754

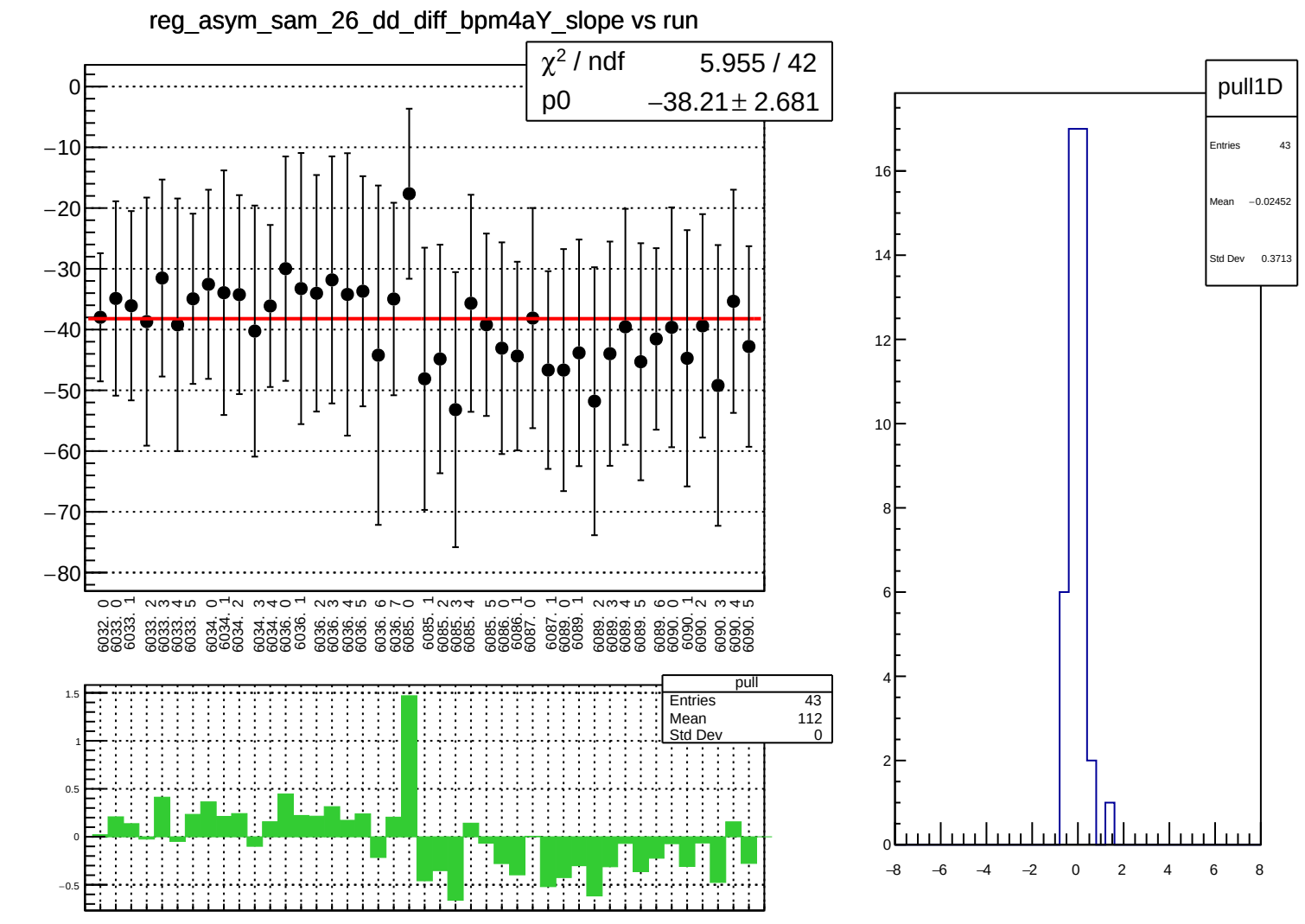

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.219 / 42
p0 −69.82 ± 1.543
−50
−60
−70
−80
−90
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.758
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.04362
Std Dev 0.461
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

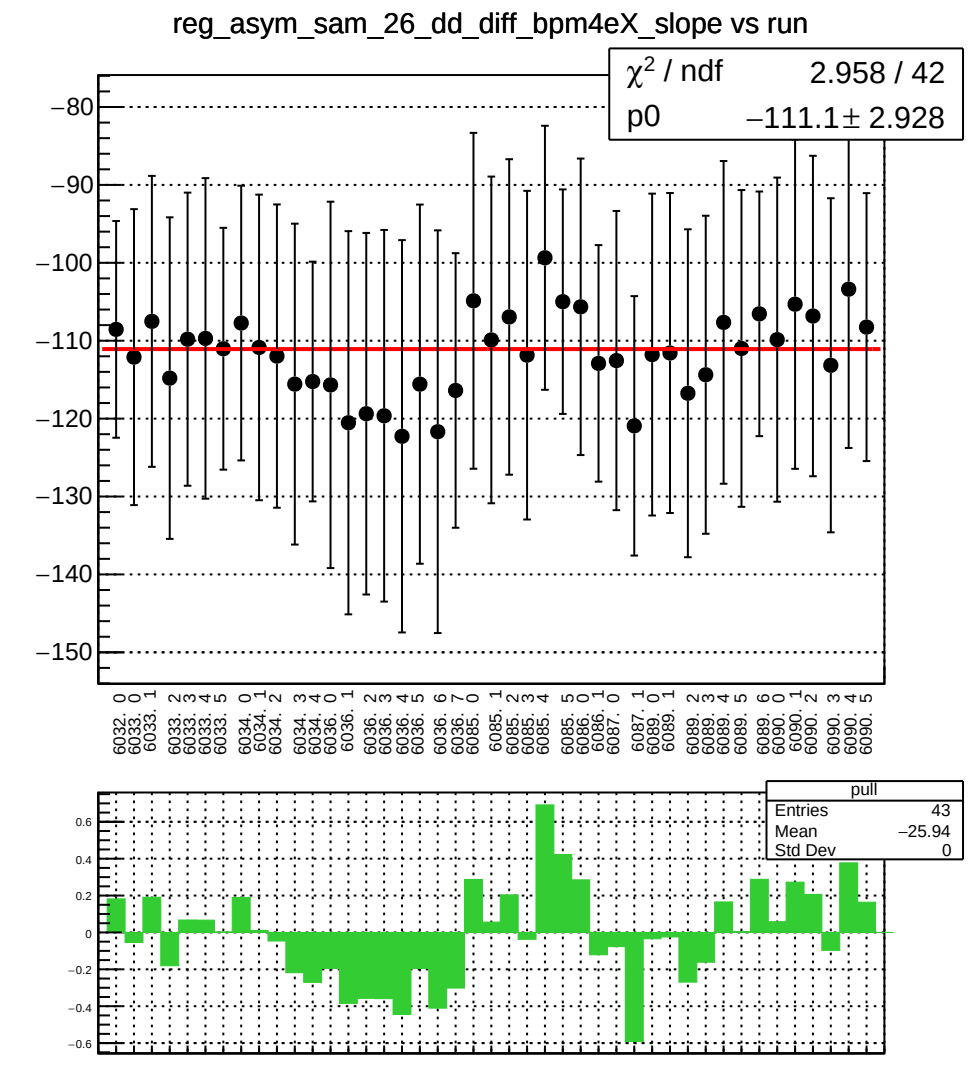

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.87 / 42
p0 −73.13 ± 1.524
pull
Entries 43
Mean 1.199
Std Dev 0

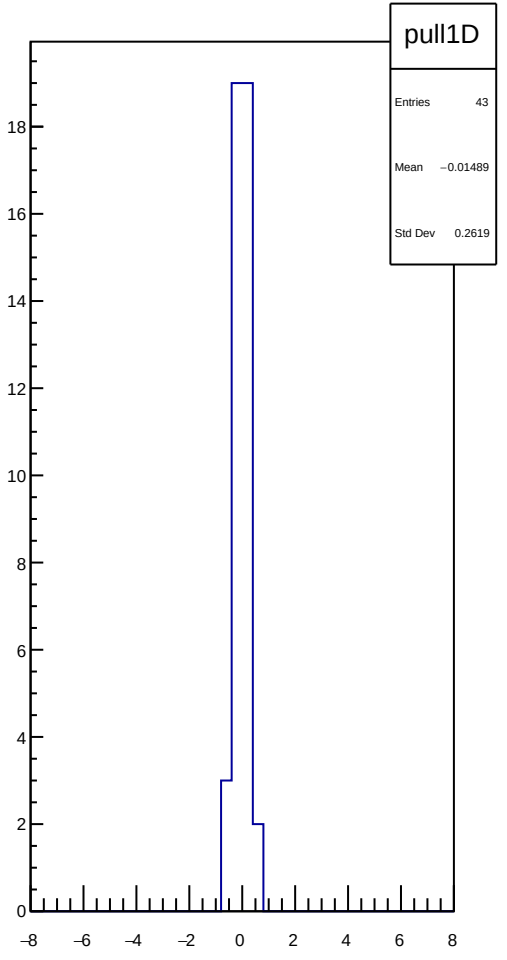

pull1D
Entries 43
Mean 0.06651
Std Dev 0.7262

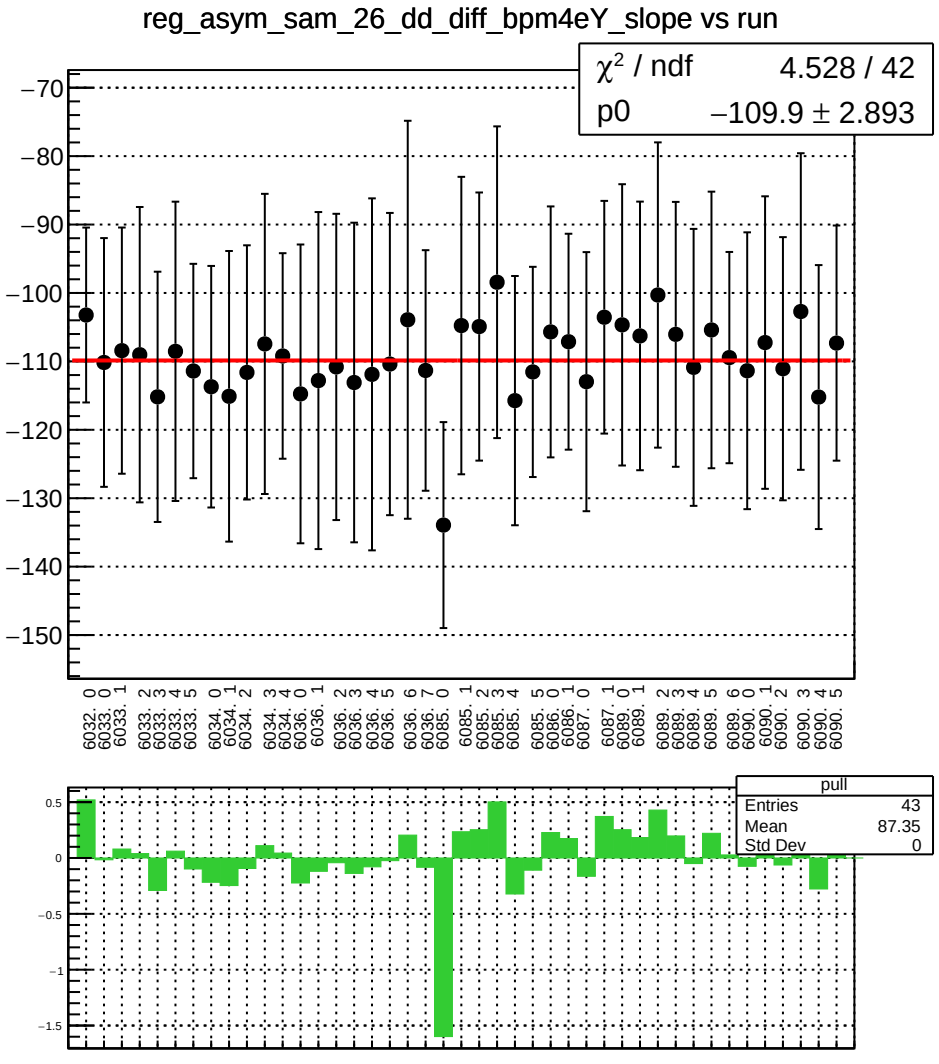

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 6.114 / 42
p0 −0.3855 ± 0.1257
pull
Entries 43
Mean −5.53
Std Dev 0
pull1D
Entries 43
Mean 0.04183
Std Dev 0.3747

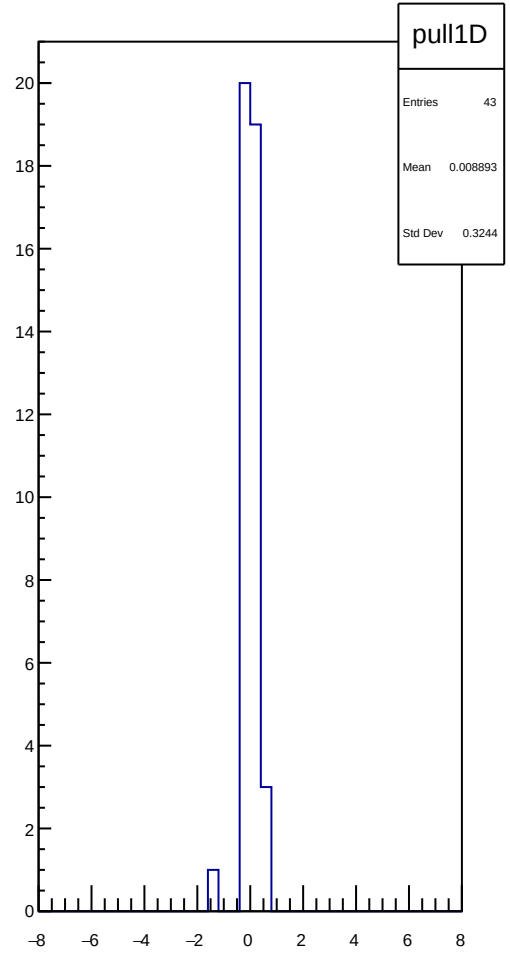

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.584 / 42
p0 −22.37 ± 2.611
10
0
−10
−20
−30
−40
−50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 116.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.008863
Std Dev 0.245
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

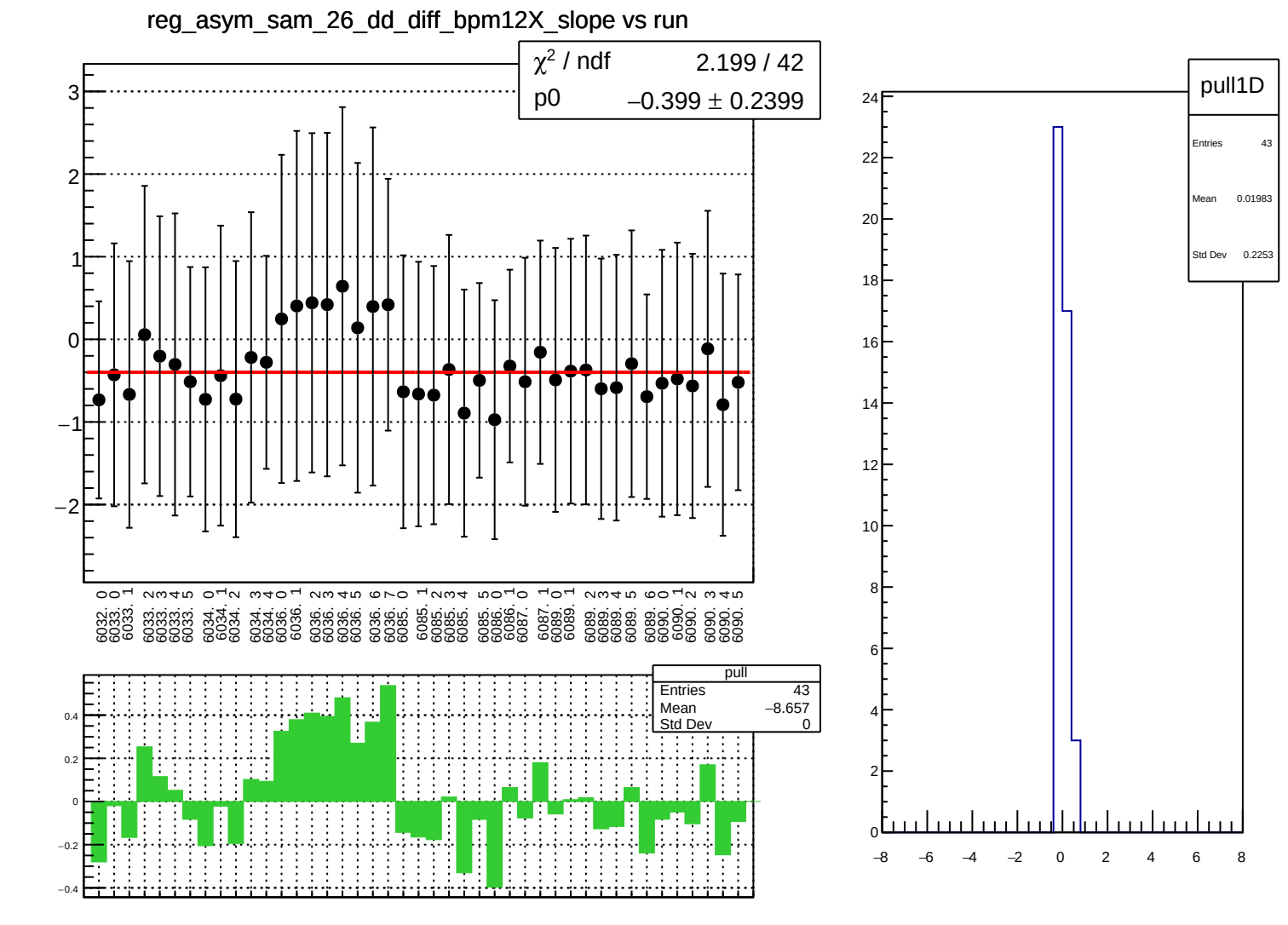

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.955 / 42
p0 −38.21 ± 2.681
pull
Entries 43
Mean 112
Std Dev 0
pull1D
Entries 43
Mean −0.02452
Std Dev 0.3713

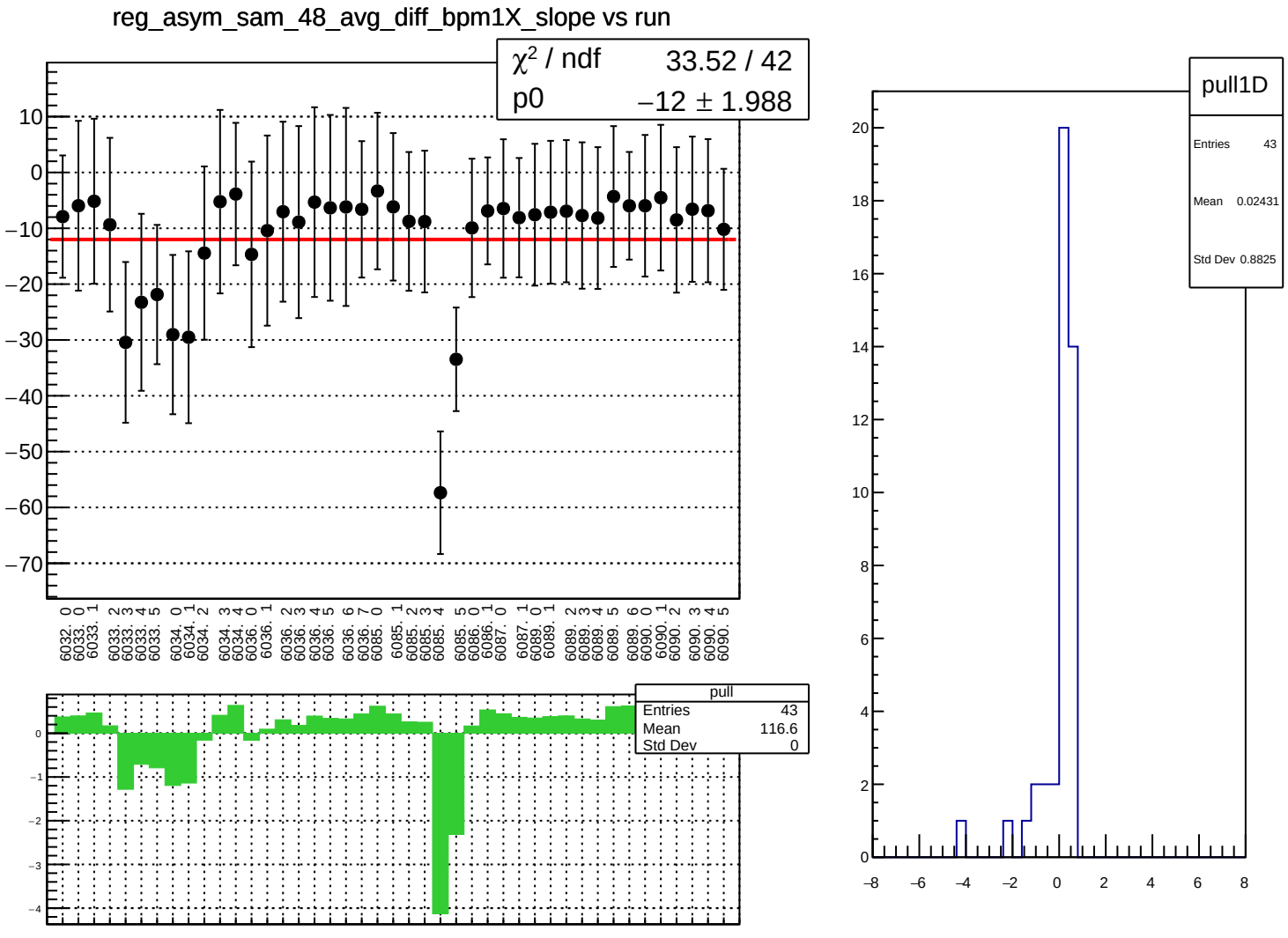

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.958 / 42
p0 −111.1± 2.928
−80
−90
−100
−110
−120
−130
−140
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −25.94
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

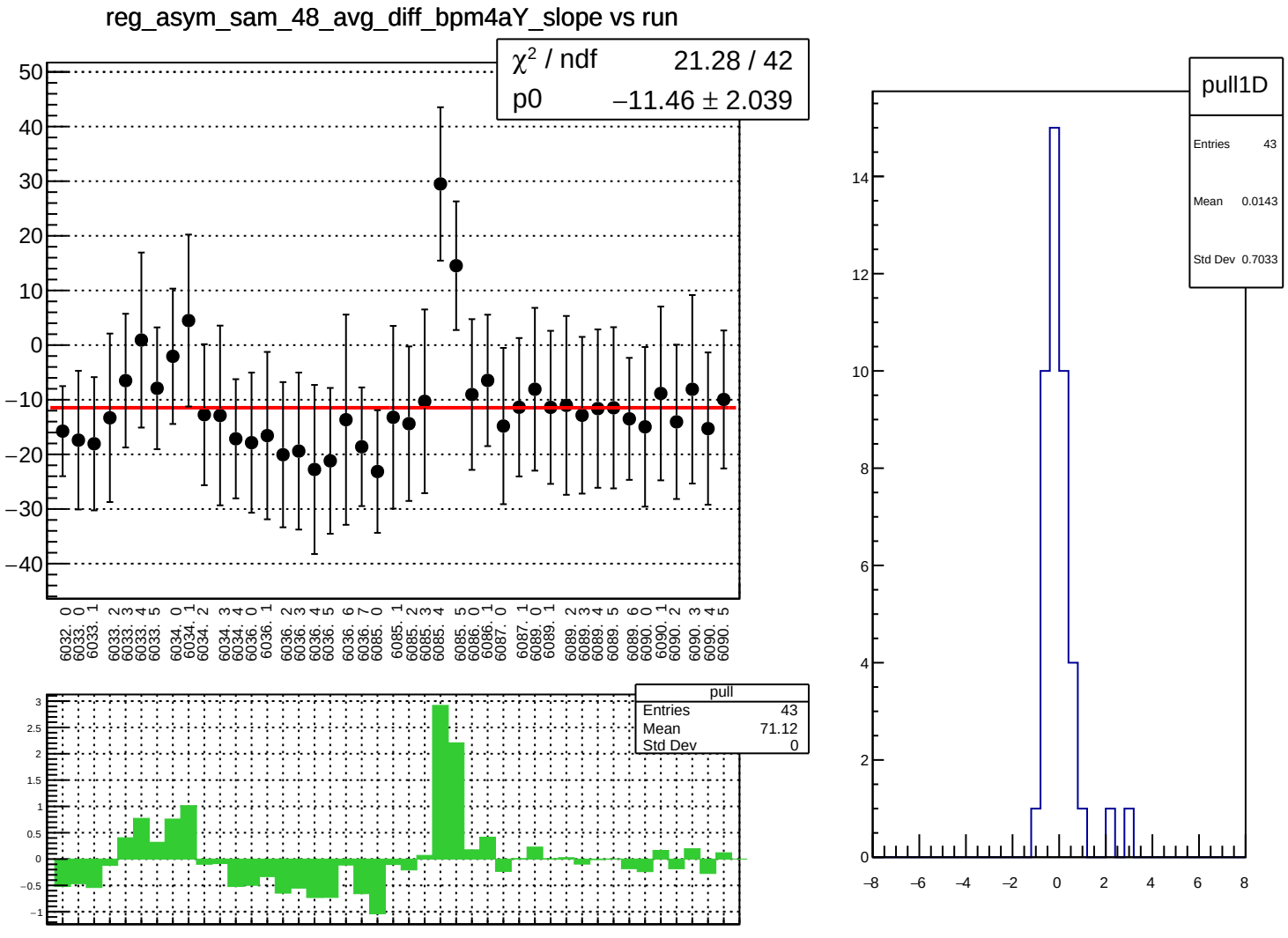

pull1D
Entries 43
Mean −0.01489
Std Dev 0.2619
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

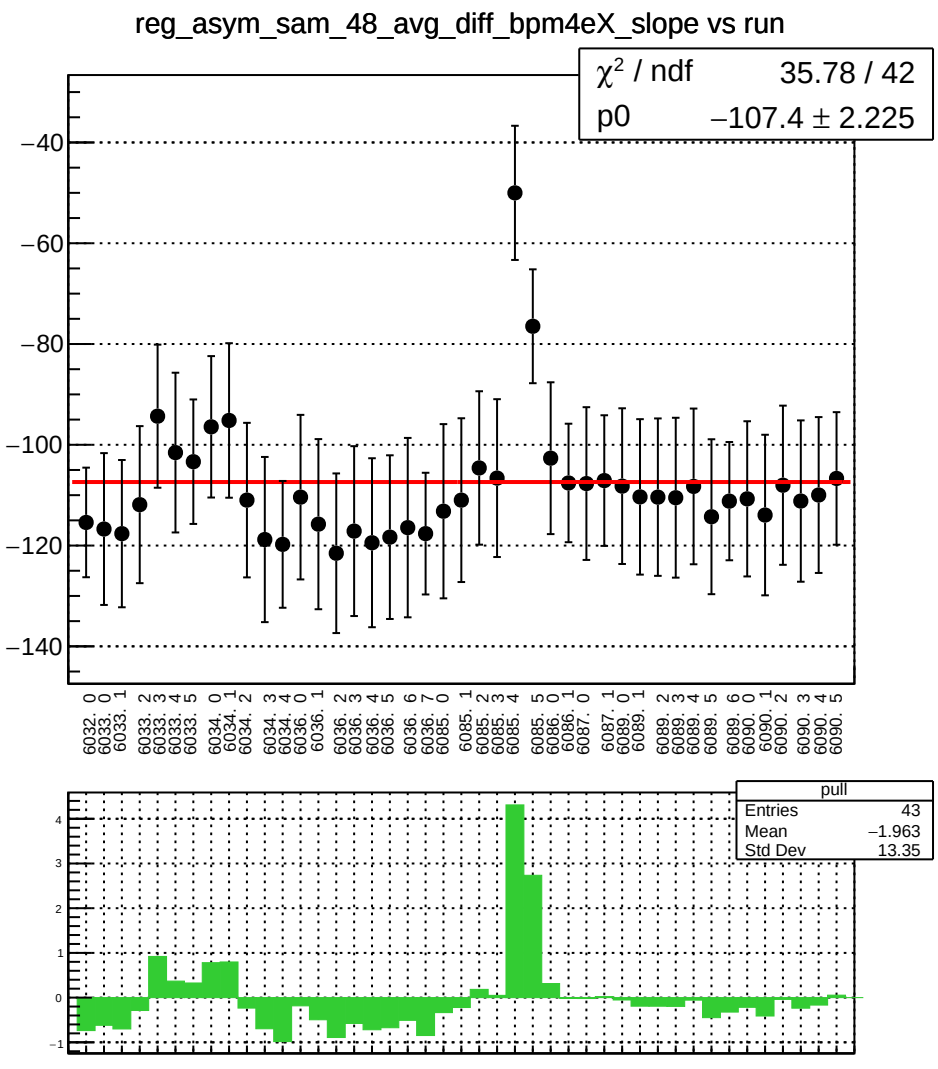

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.528 / 42
p0 −109.9 ± 2.893
pull
Entries 43
Mean 87.35
Std Dev 0

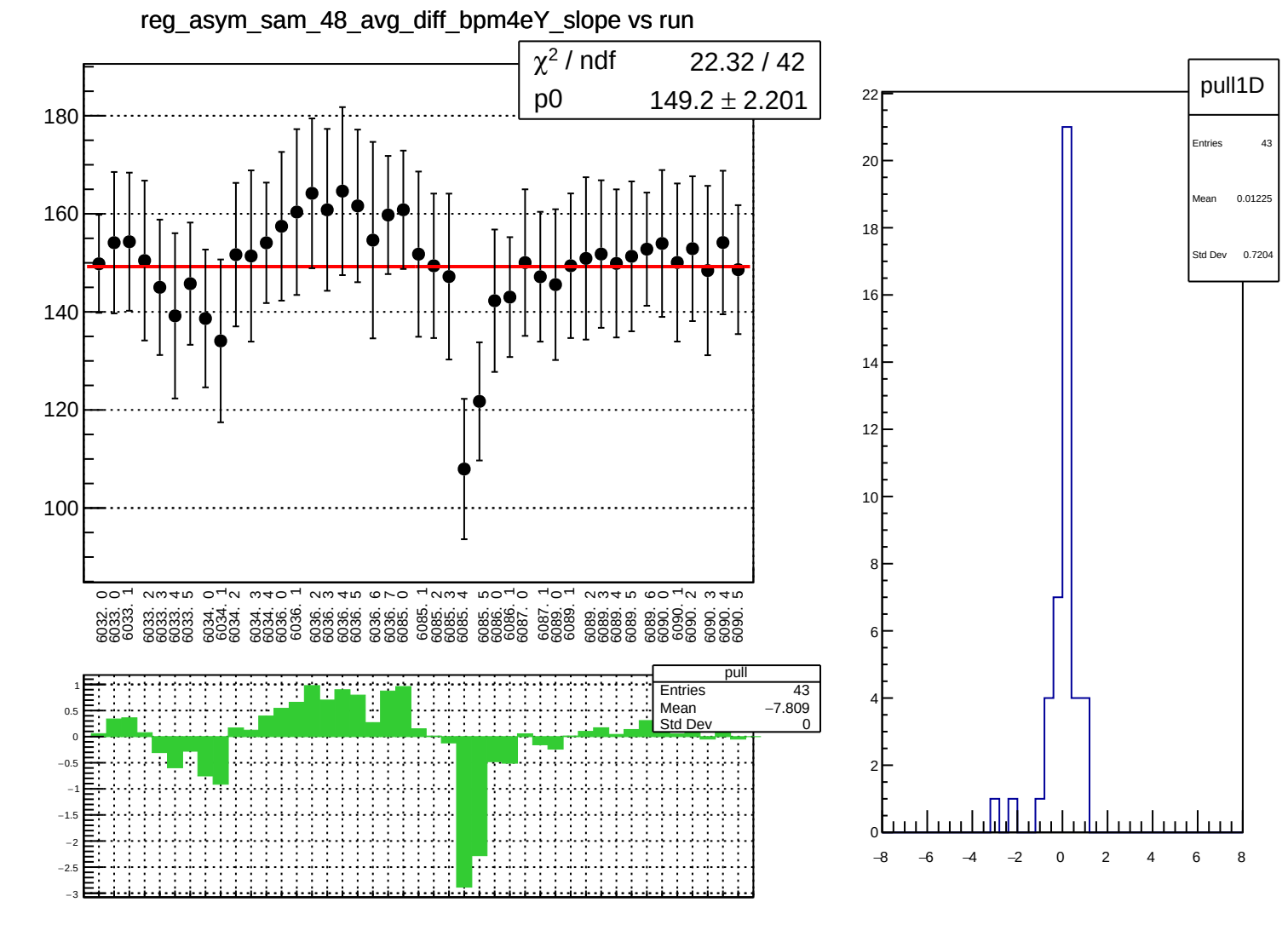

pull1D
Entries 43
Mean 0.008893
Std Dev 0.3244

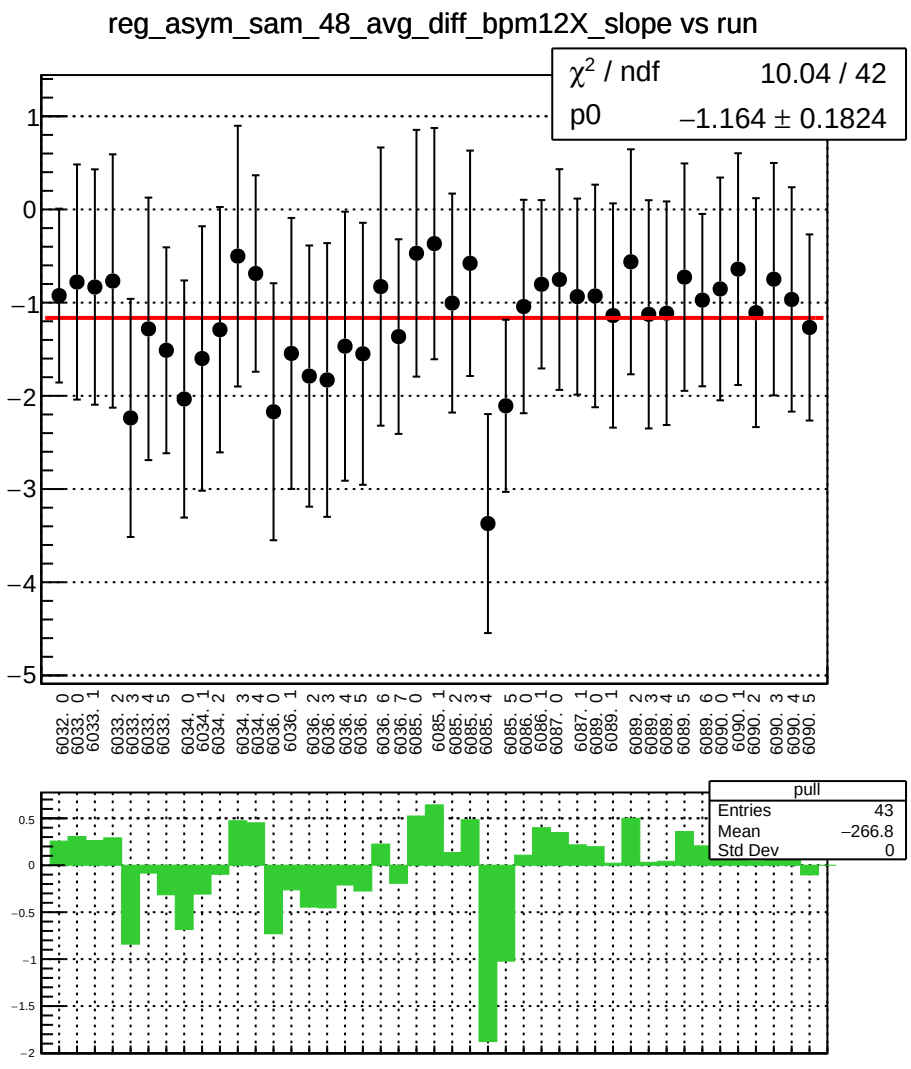

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.199 / 42
p0 −0.399 ± 0.2399
pull
Entries 43
Mean −8.657
Std Dev 0
pull1D
Entries 43
Mean 0.01983
Std Dev 0.2253

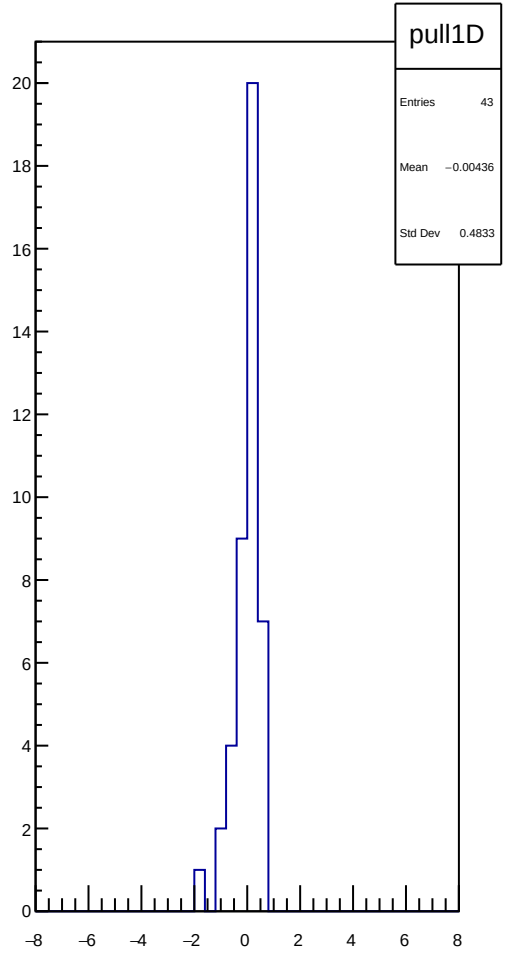

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 33.52 / 42
p0 −12 ± 1.988
pull
Entries 43
Mean 116.6
Std Dev 0
pull1D
Entries 43
Mean 0.02431
Std Dev 0.8825

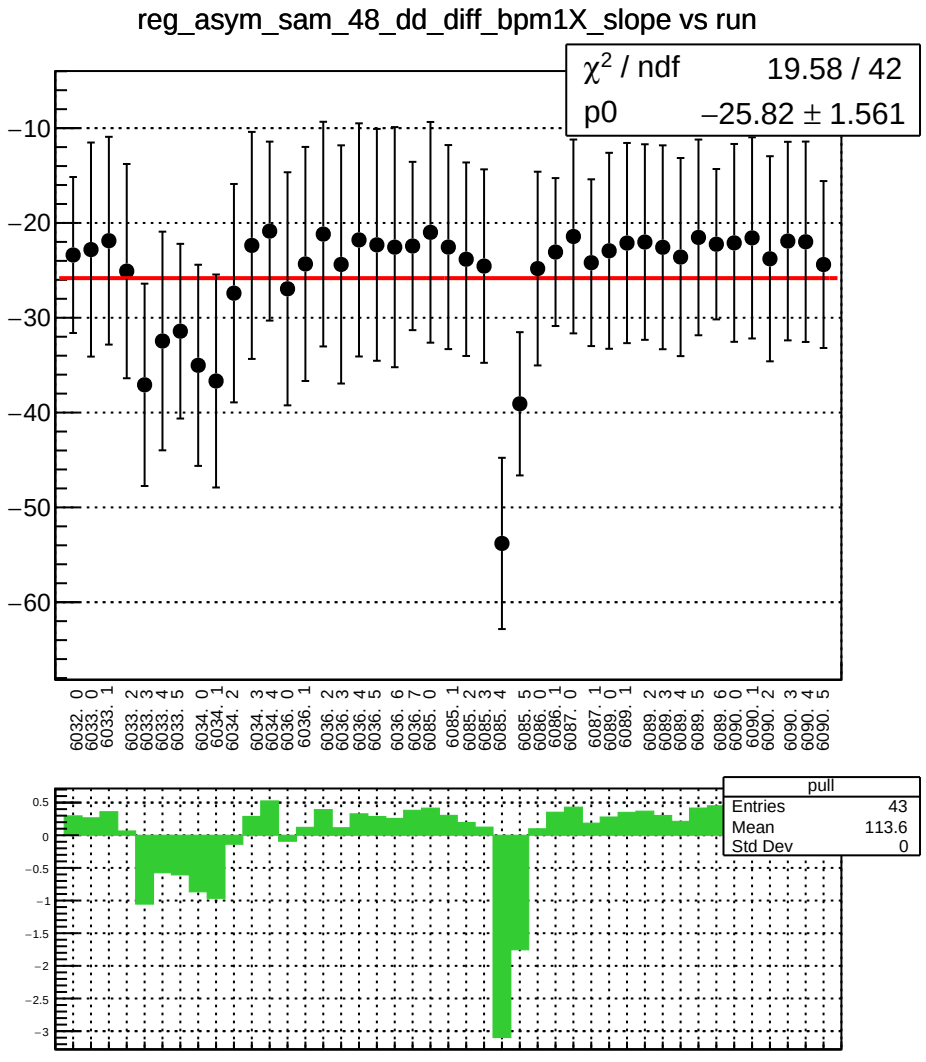

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.28 / 42
p0 −11.46 ± 2.039
pull
Entries 43
Mean 71.12
Std Dev 0
pull1D
Entries 43
Mean 0.0143
Std Dev 0.7033

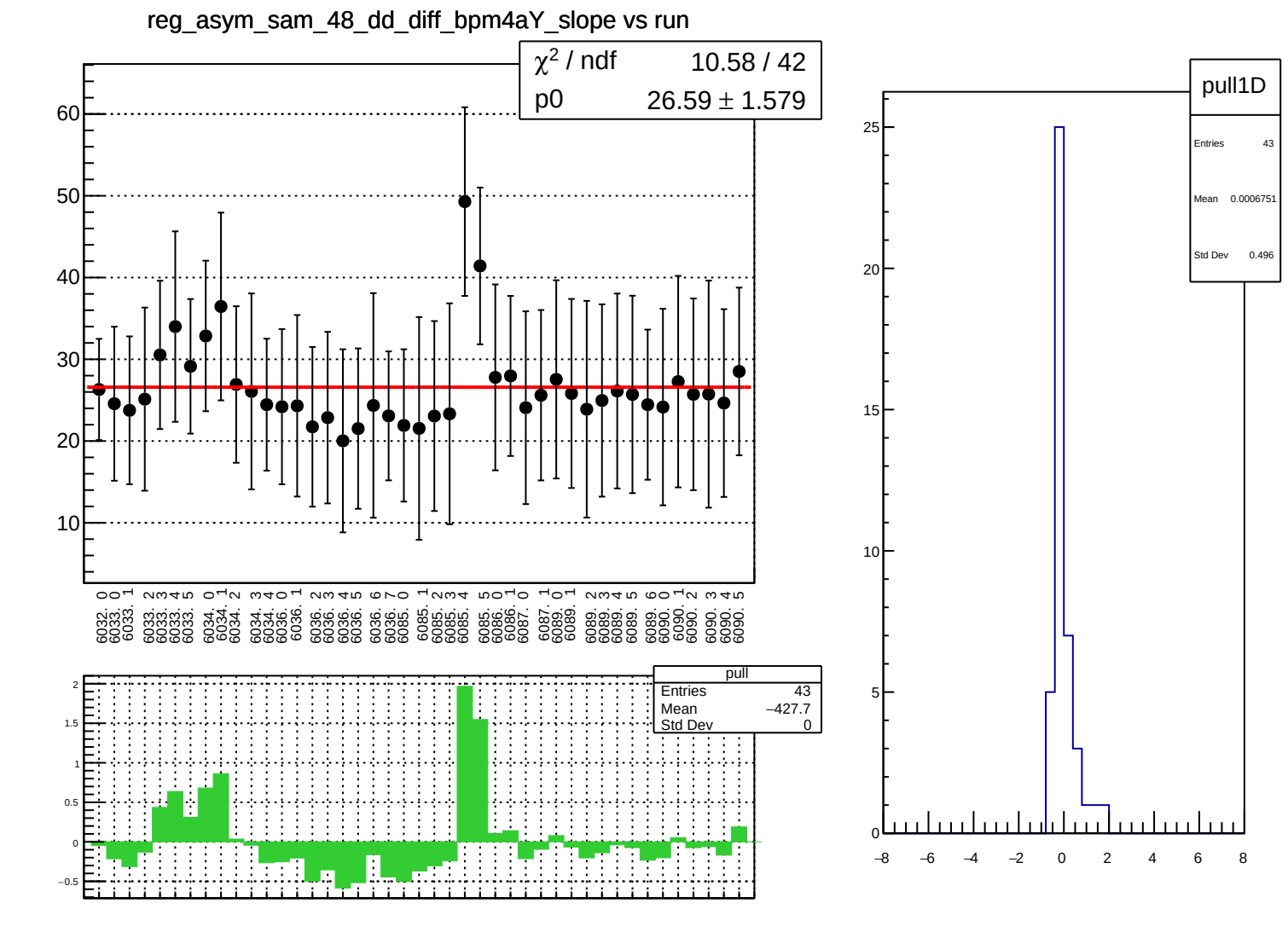

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.78 / 42
p0 −107.4 ± 2.225
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.963
Std Dev 13.35
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.03292
Std Dev 0.9117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

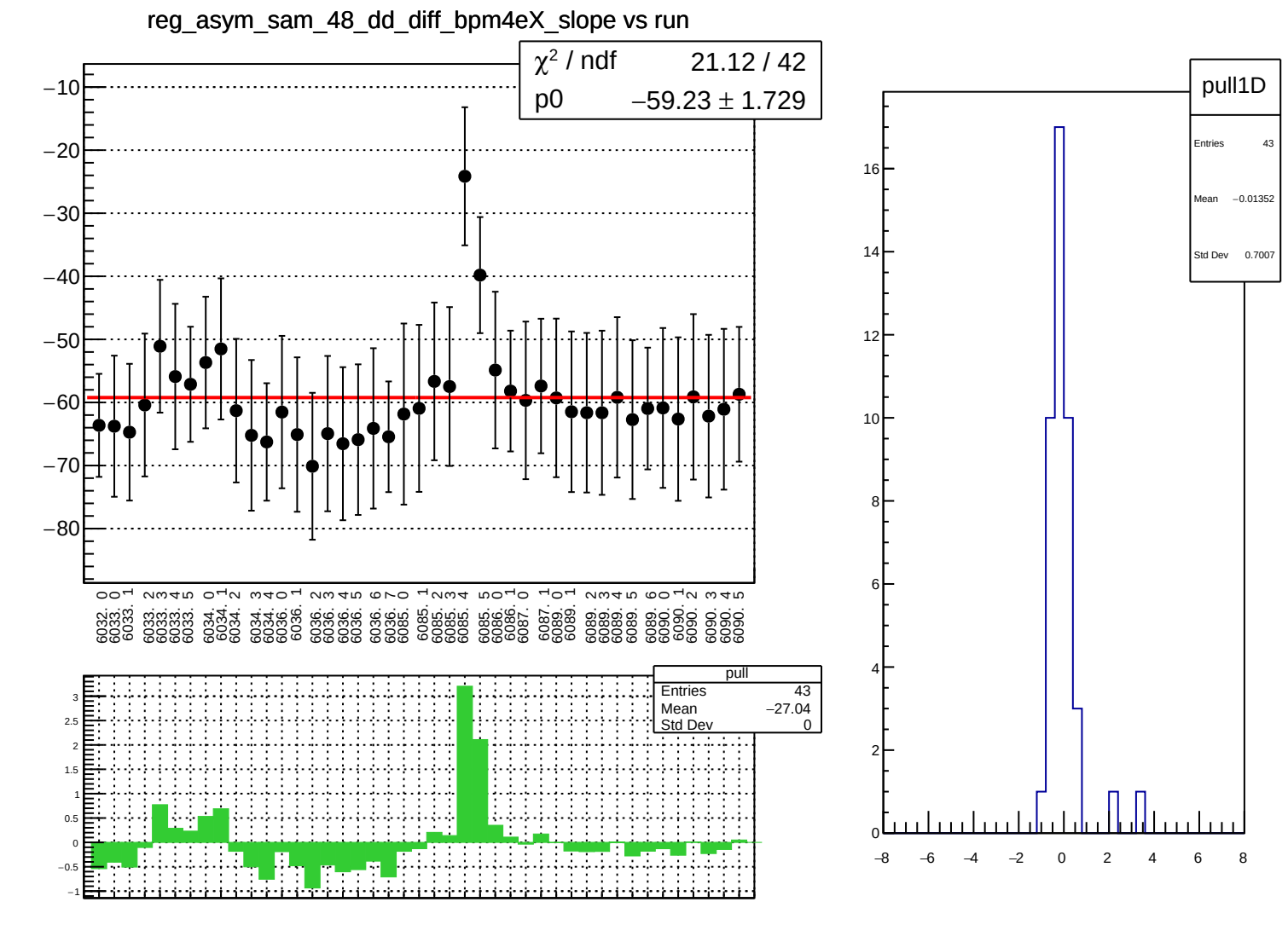

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.32 / 42
p0 149.2 ± 2.201
pull
Entries 43
Mean −7.809
Std Dev 0
pull1D
Entries 43
Mean 0.01225
Std Dev 0.7204

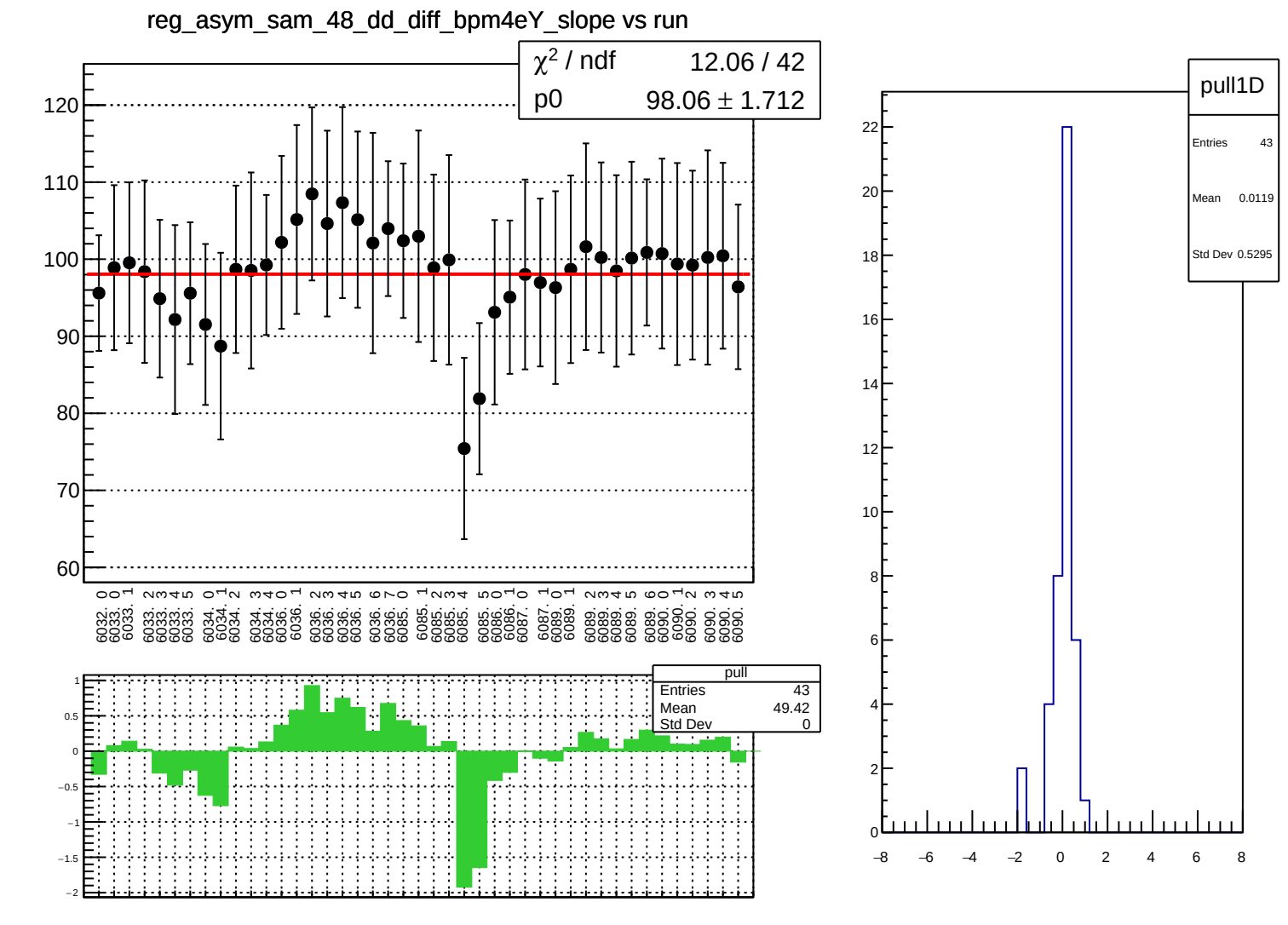

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 10.04 / 42
p0 −1.164 ± 0.1824
pull
Entries 43
Mean −266.8
Std Dev 0

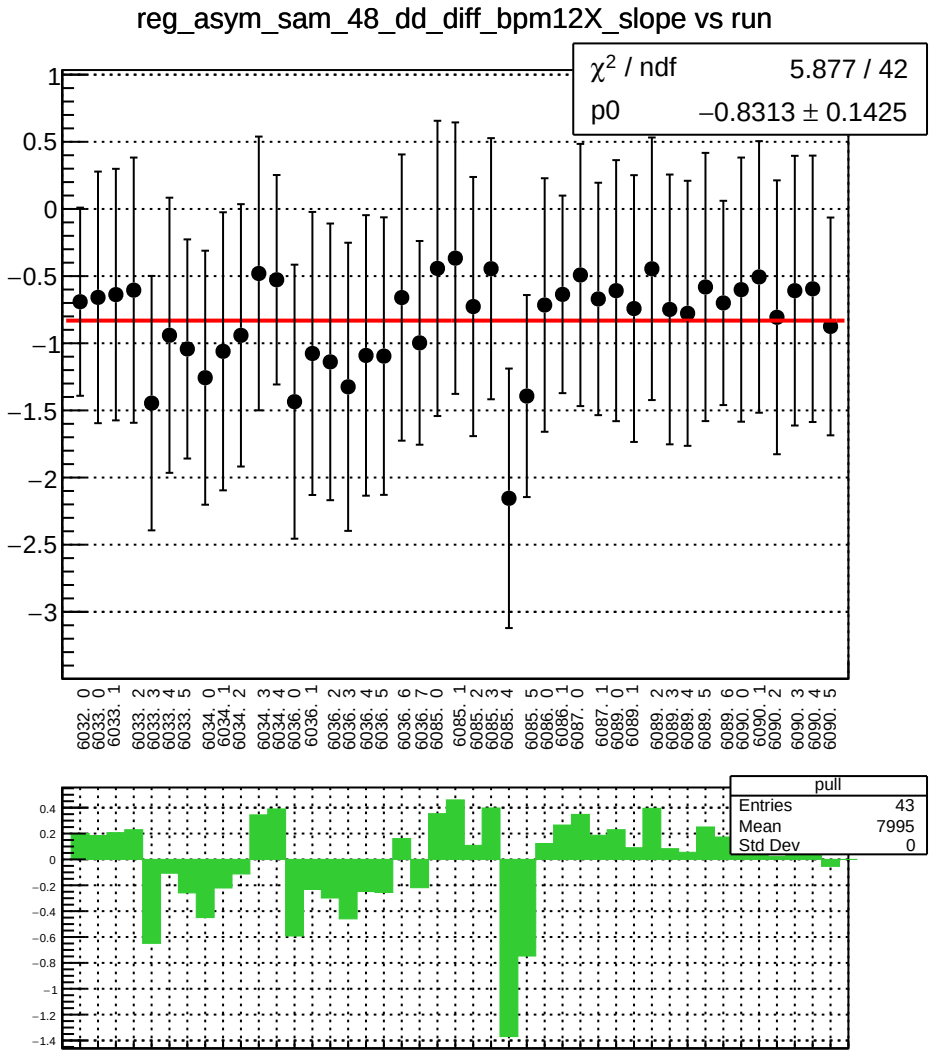

pull1D
Entries 43
Mean −0.00436
Std Dev 0.4833

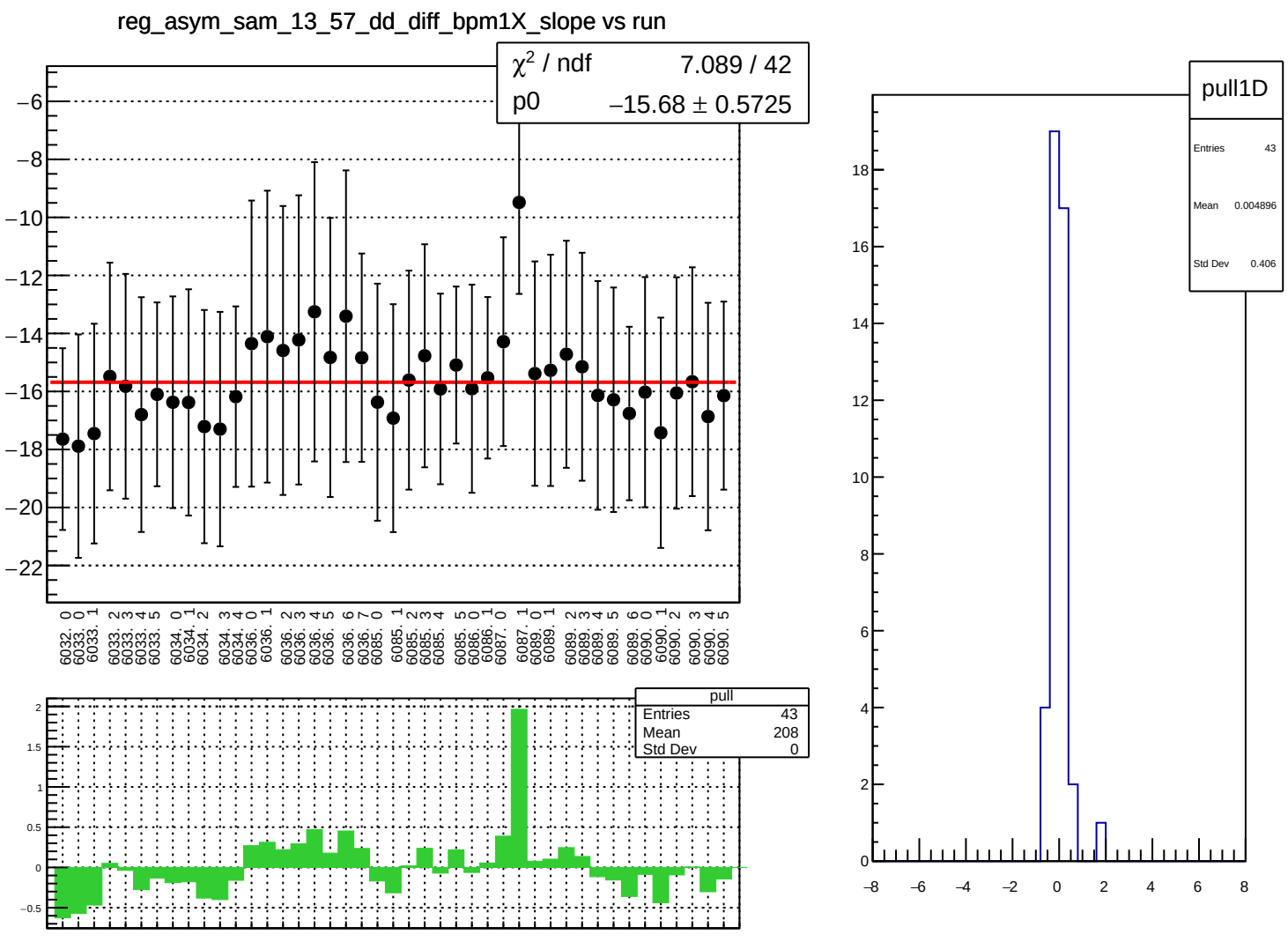

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 19.58 / 42
p0 −25.82 ± 1.561
−10
−20
−30
−40
−50
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 113.6
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.02025
Std Dev 0.6745
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

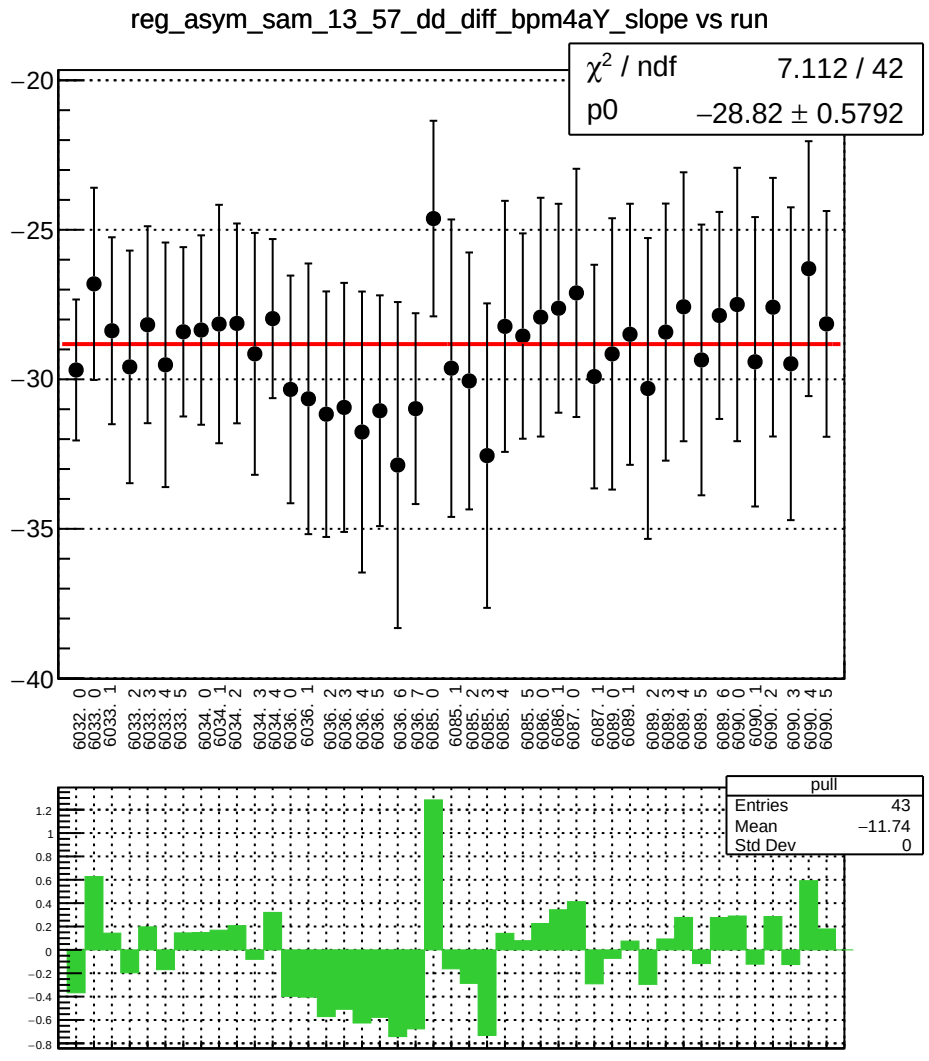

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.58 / 42
p0 26.59 ± 1.579
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −427.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean 0.0006751
Std Dev 0.496
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

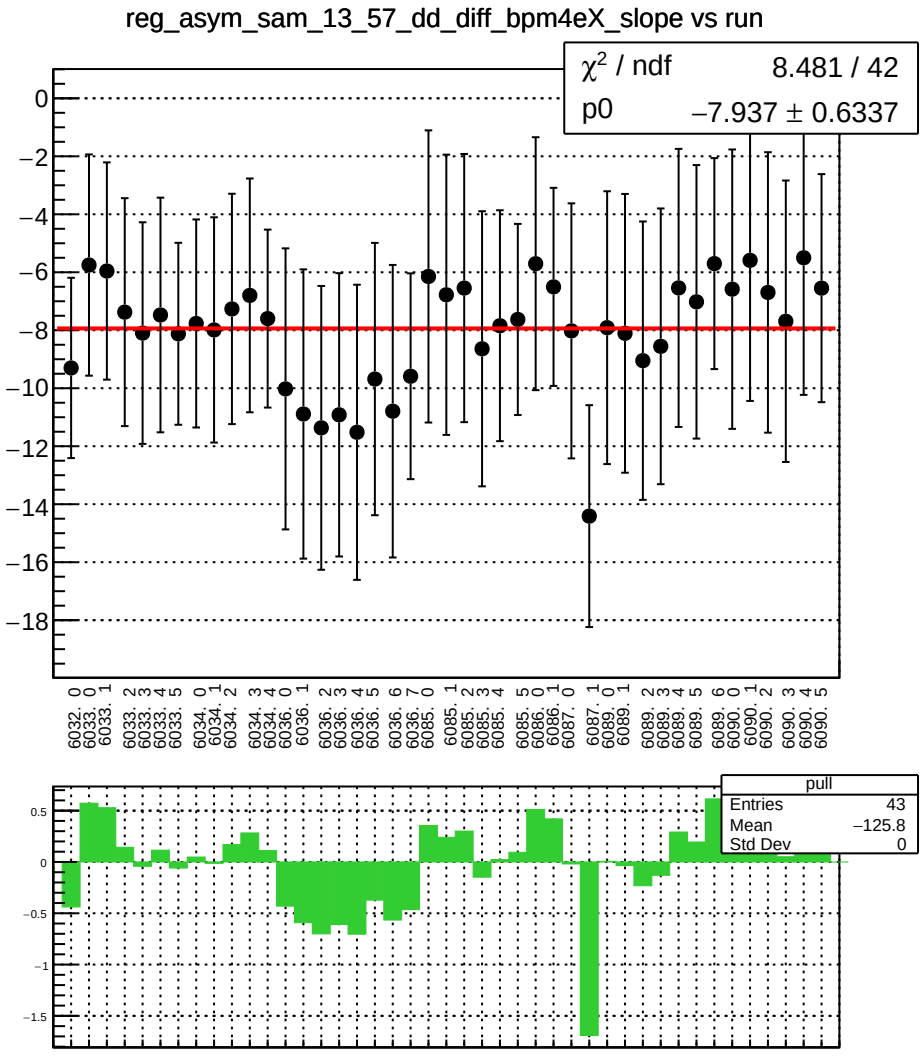

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.12 / 42
p0 −59.23 ± 1.729
pull
Entries 43
Mean −27.04
Std Dev 0
pull1D
Entries 43
Mean −0.01352
Std Dev 0.7007

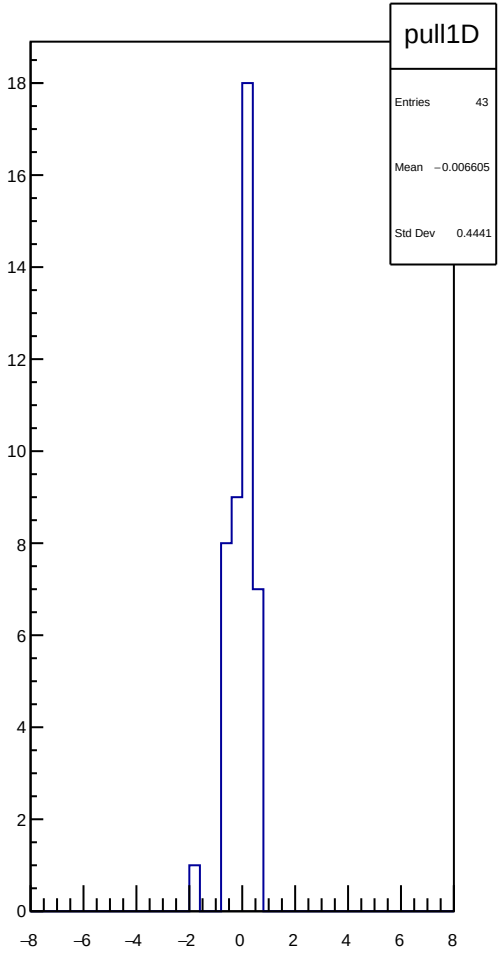

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.06 / 42
p0 98.06 ± 1.712
pull
Entries 43
Mean 49.42
Std Dev 0
pull1D
Entries 43
Mean 0.0119
Std Dev 0.5295

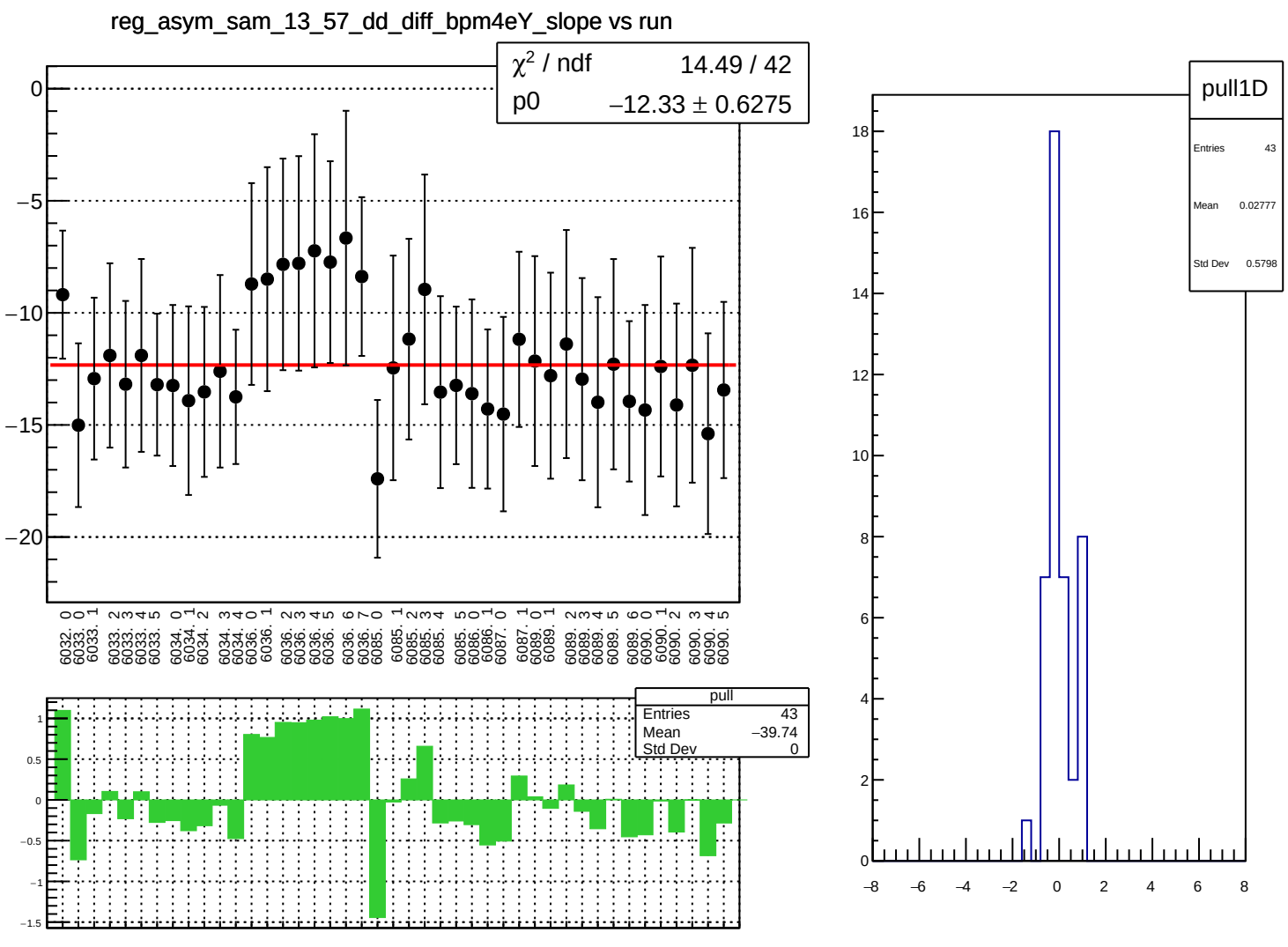

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.877 / 42
p0 −0.8313 ± 0.1425
pull
Entries 43
Mean 7995
Std Dev 0
pull1D
Entries 43
Mean 0.0001457
Std Dev 0.3697

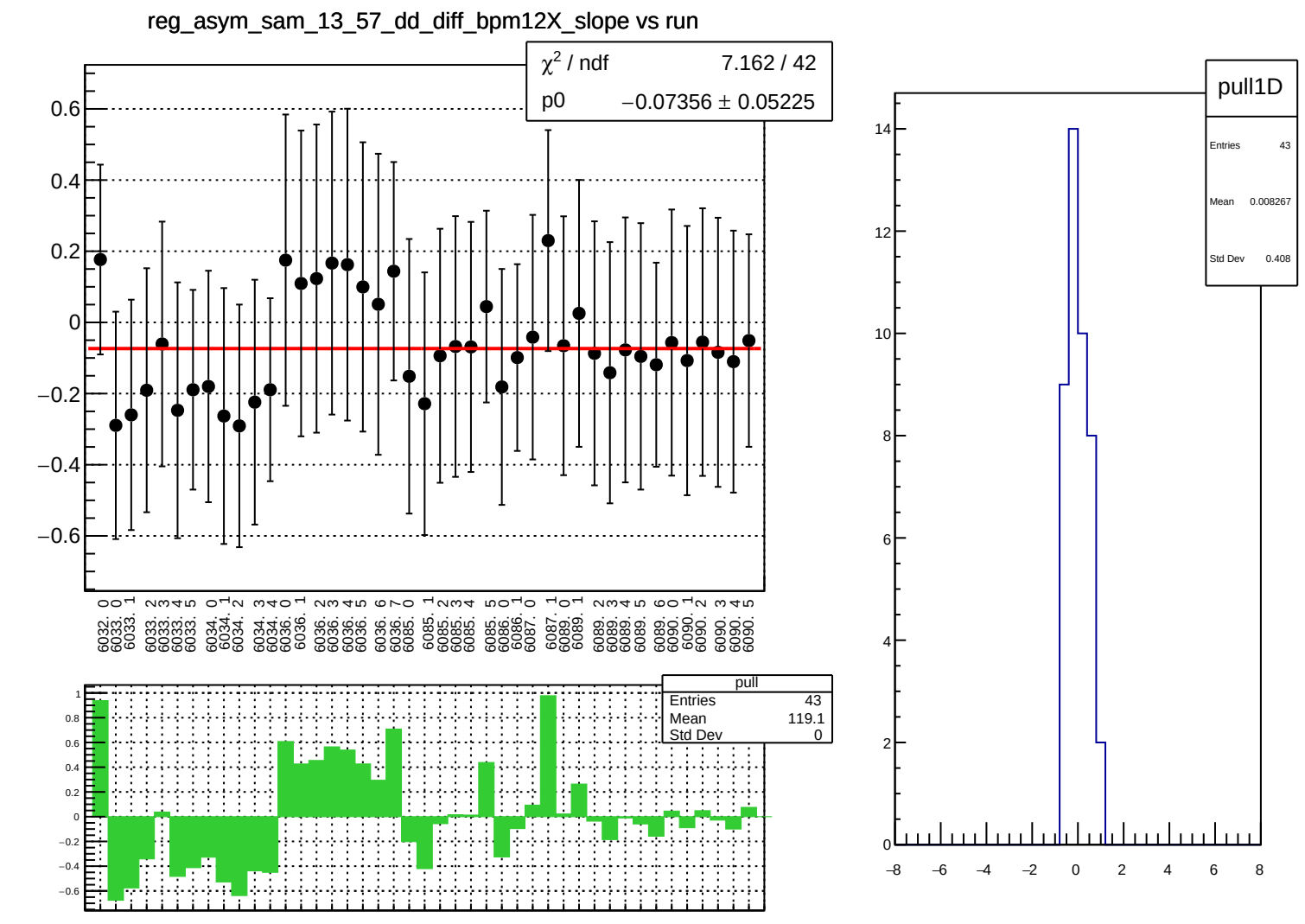

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 7.089 / 42
p0 −15.68 ± 0.5725
pull
Entries 43
Mean 208
Std Dev 0
pull1D
Entries 43
Mean 0.004896
Std Dev 0.406

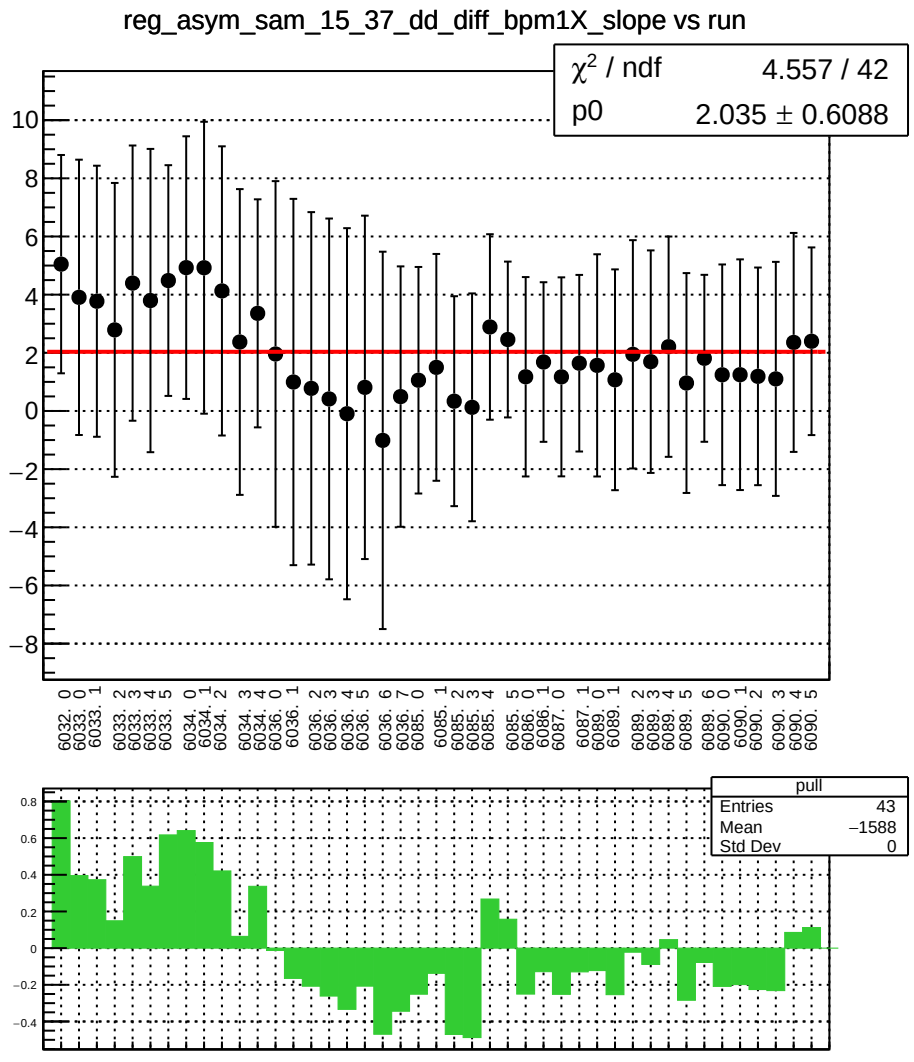

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.112 / 42
p0 −28.82 ± 0.5792
pull
Entries 43
Mean −11.74
Std Dev 0
pull1D
Entries 43
Mean −0.0234
Std Dev 0.406

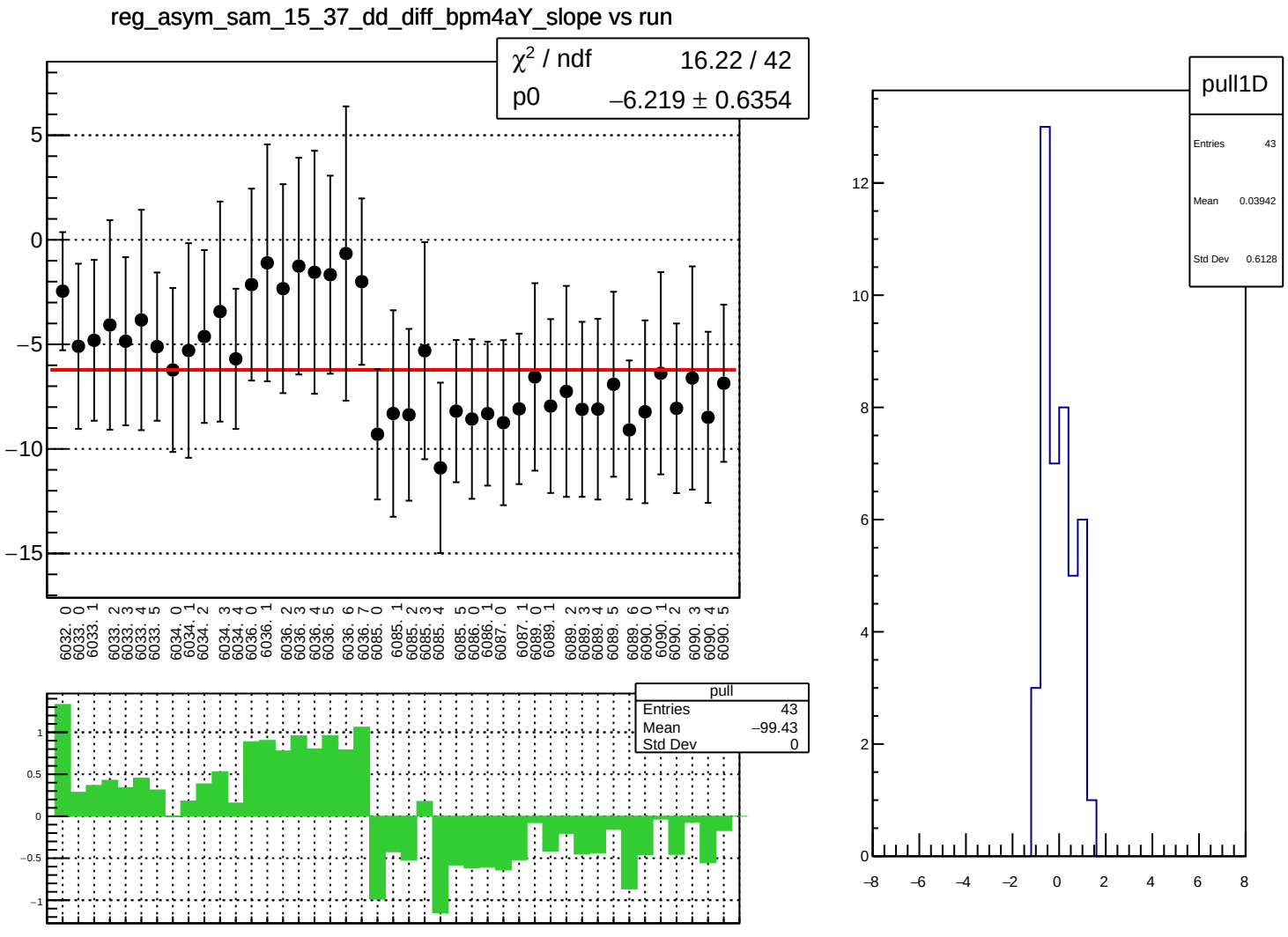

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.481 / 42
p0 −7.937 ± 0.6337
pull
Entries 43
Mean −125.8
Std Dev 0

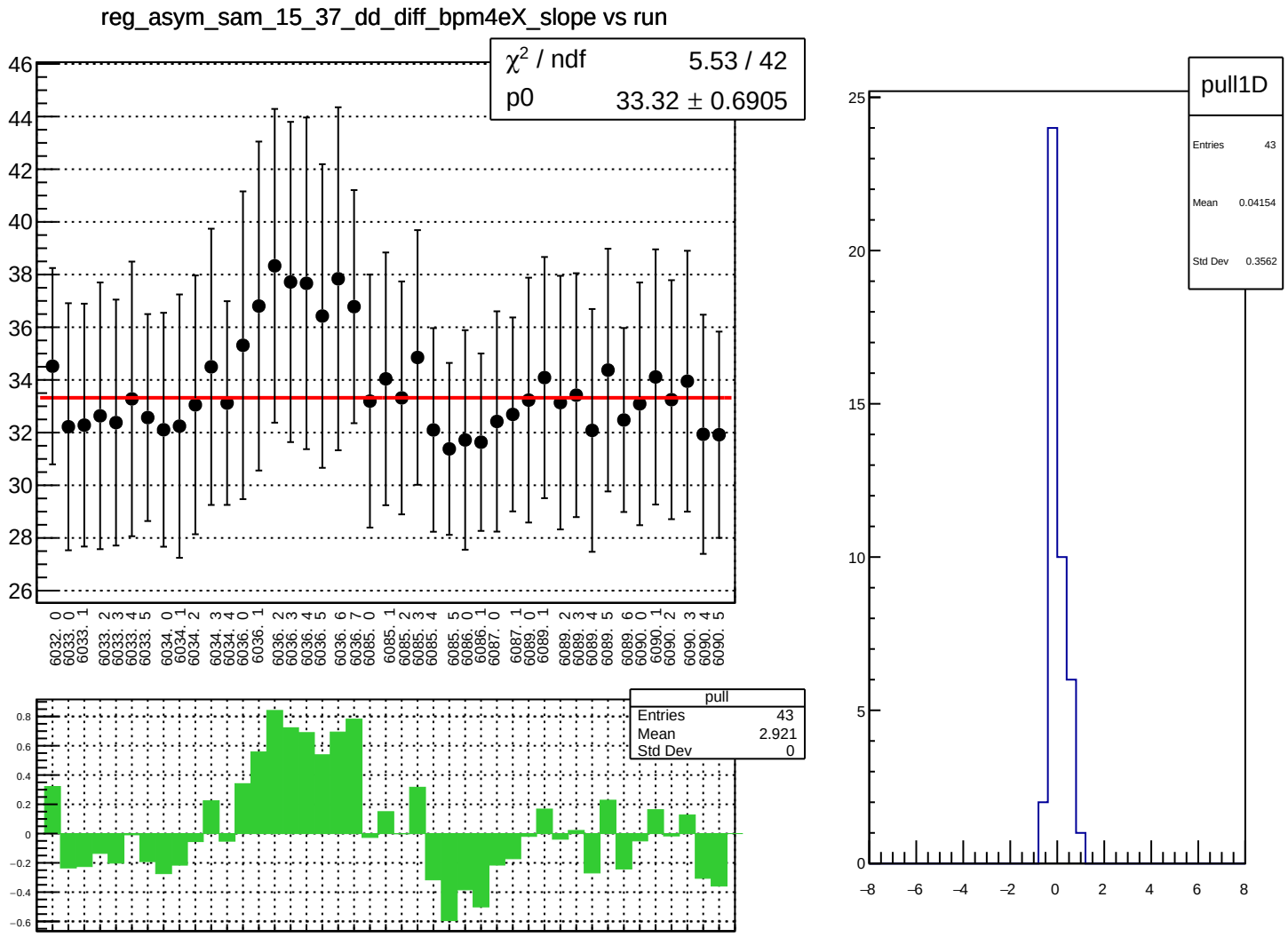

pull1D
Entries 43
Mean −0.006605
Std Dev 0.4441

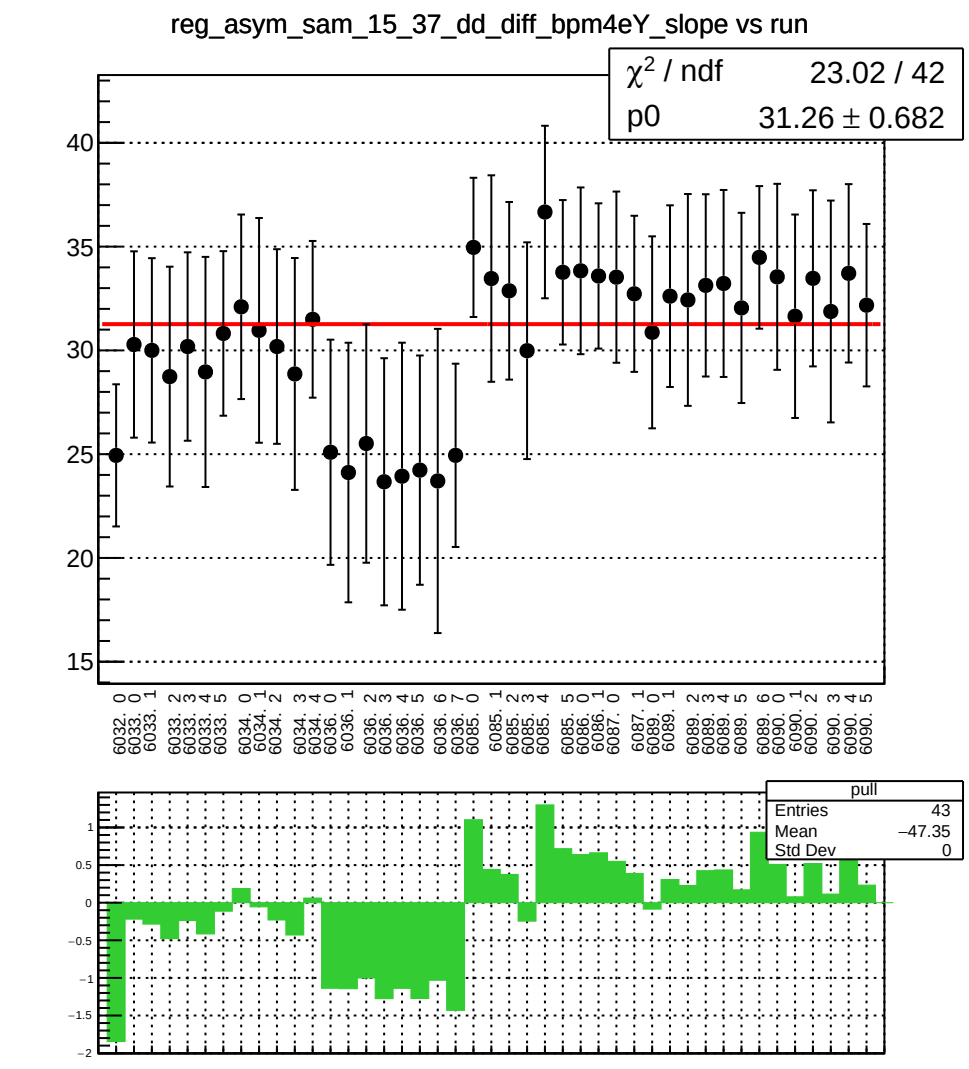

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.49 / 42
p0 −12.33 ± 0.6275
0
−5
−10
−15
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −39.74
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02777
Std Dev 0.5798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

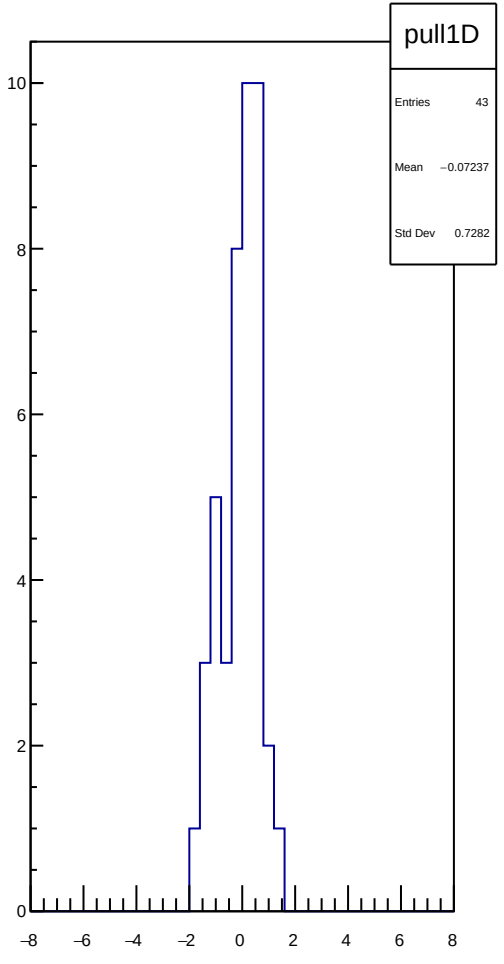

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 7.162 / 42
p0 −0.07356 ± 0.05225
pull
Entries 43
Mean 119.1
Std Dev 0
pull1D
Entries 43
Mean 0.008267
Std Dev 0.408

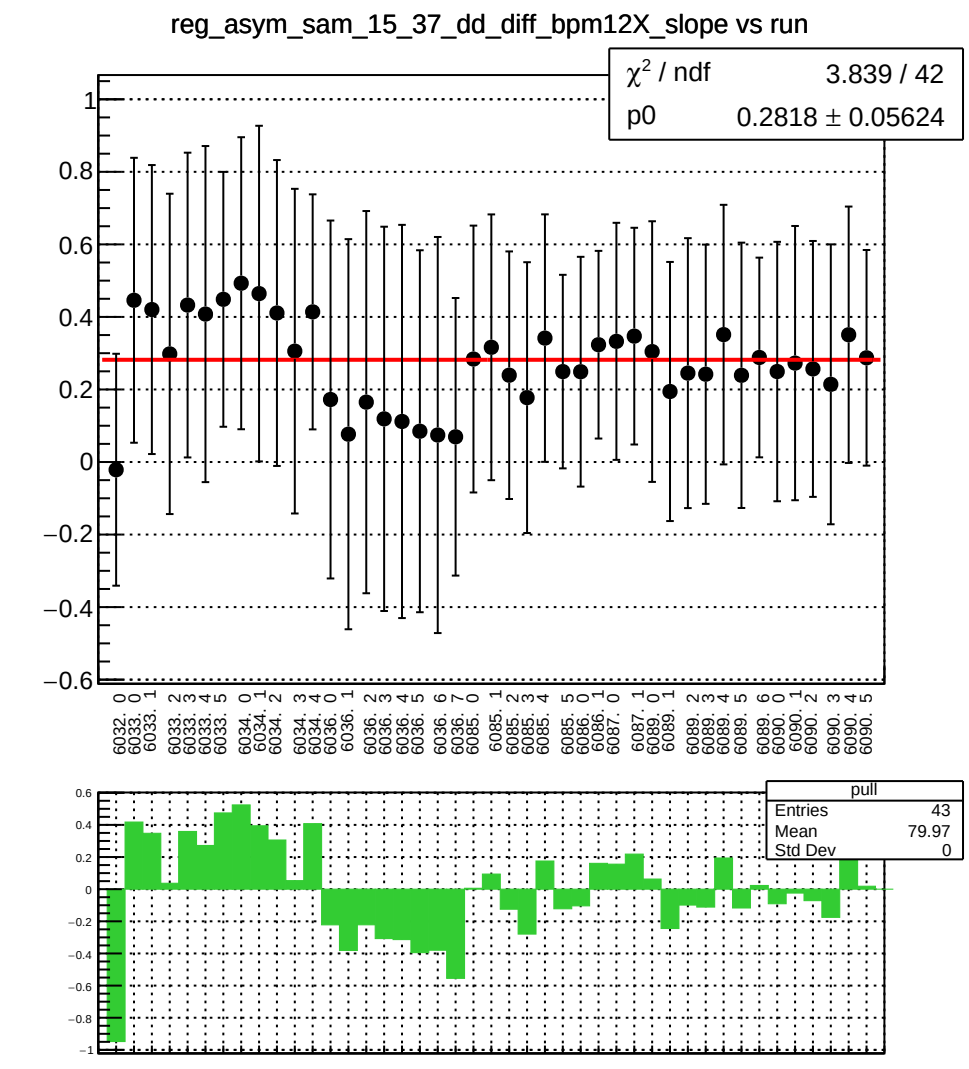

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.557 / 42
p0 2.035 ± 0.6088
pull
Entries 43
Mean −1588
Std Dev 0
pull1D
Entries 43
Mean 0.001436
Std Dev 0.3256

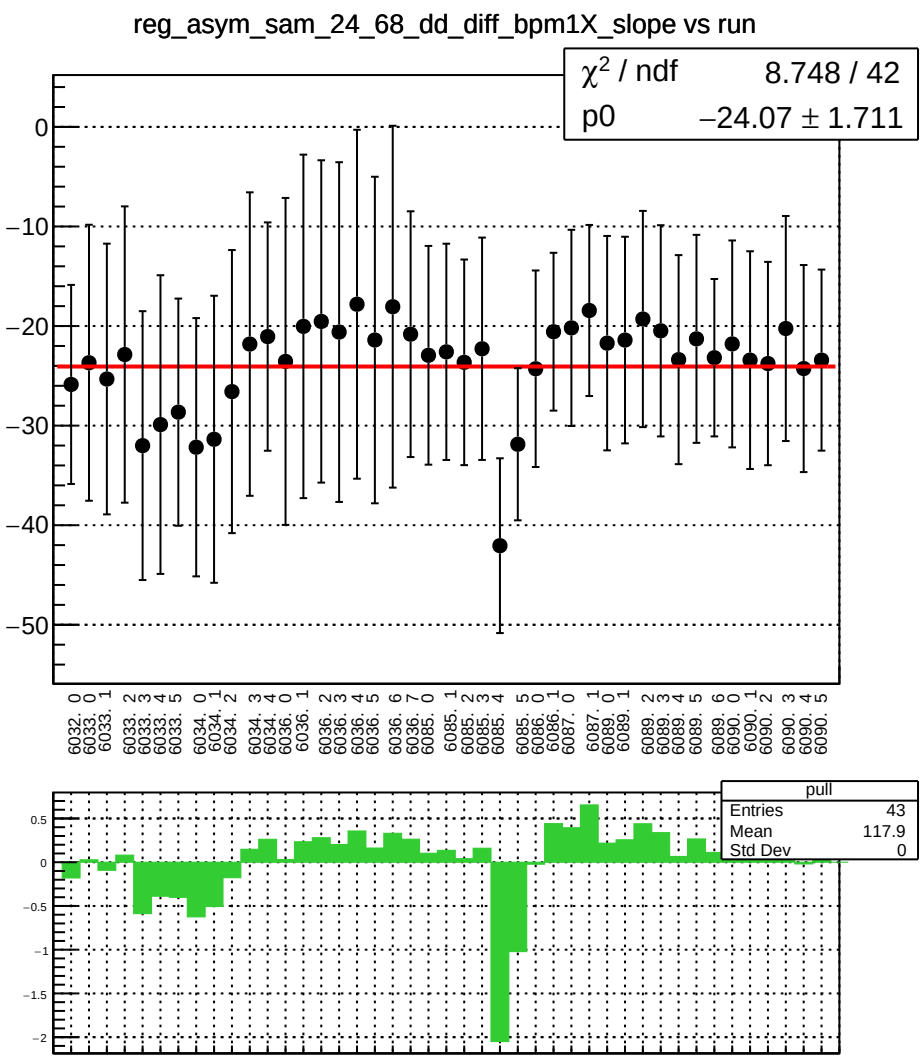

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.22 / 42
p0 −6.219 ± 0.6354
5
0
−5
−10
−15
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −99.43
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.03942
Std Dev 0.6128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

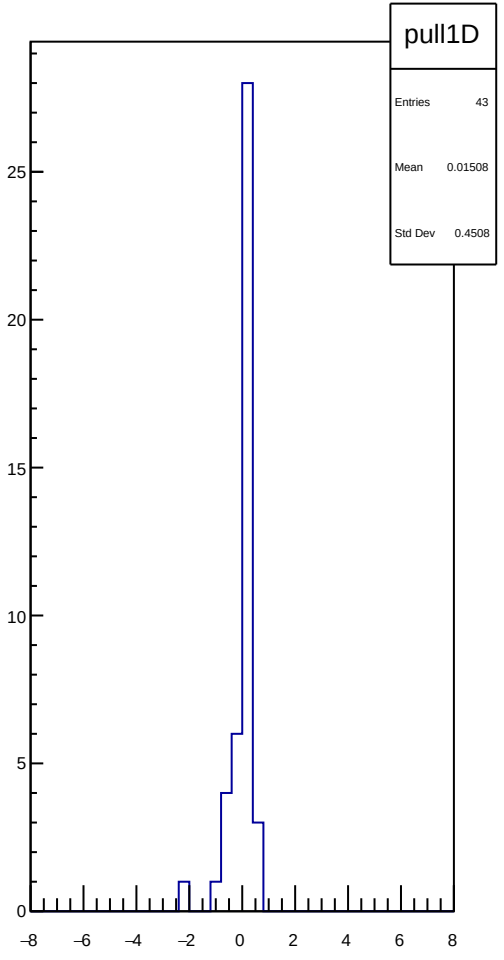

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.53 / 42
p0 33.32 ± 0.6905
pull
Entries 43
Mean 2.921
Std Dev 0
pull1D
Entries 43
Mean 0.04154
Std Dev 0.3562

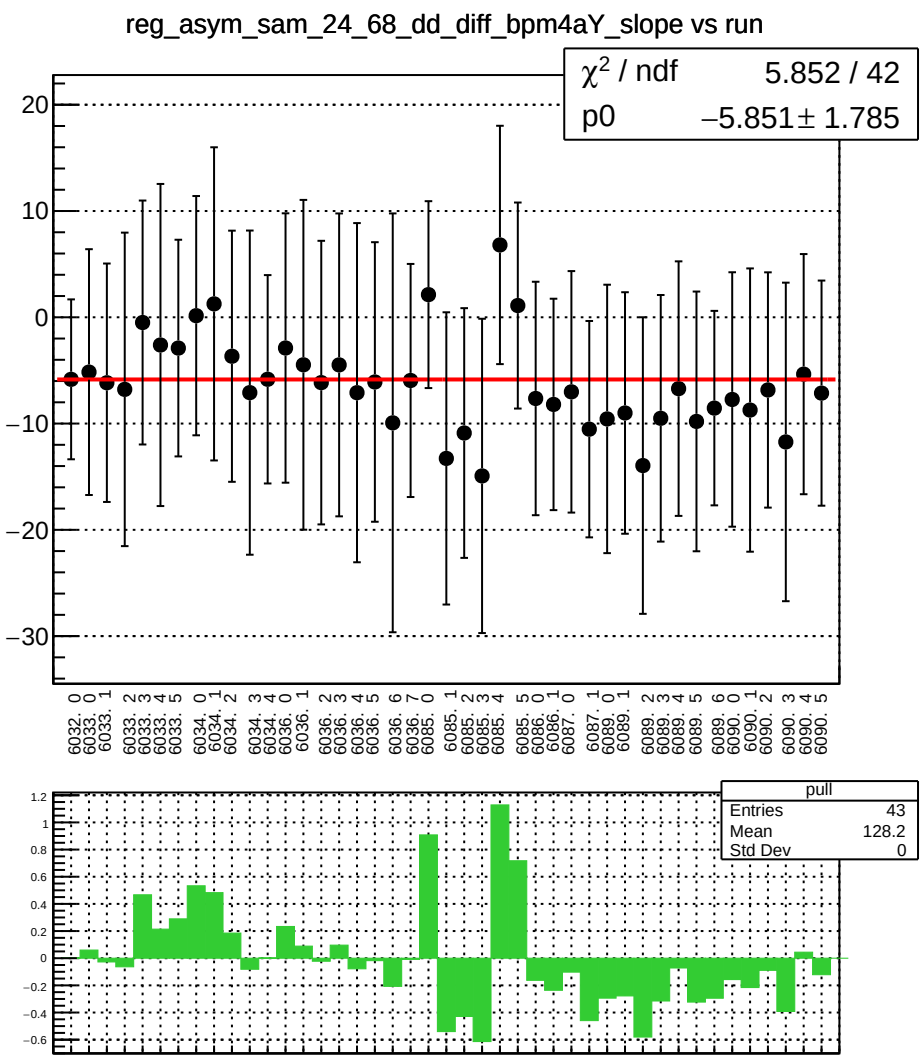

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.02 / 42
p0 31.26 ± 0.682
pull
Entries 43
Mean −47.35
Std Dev 0

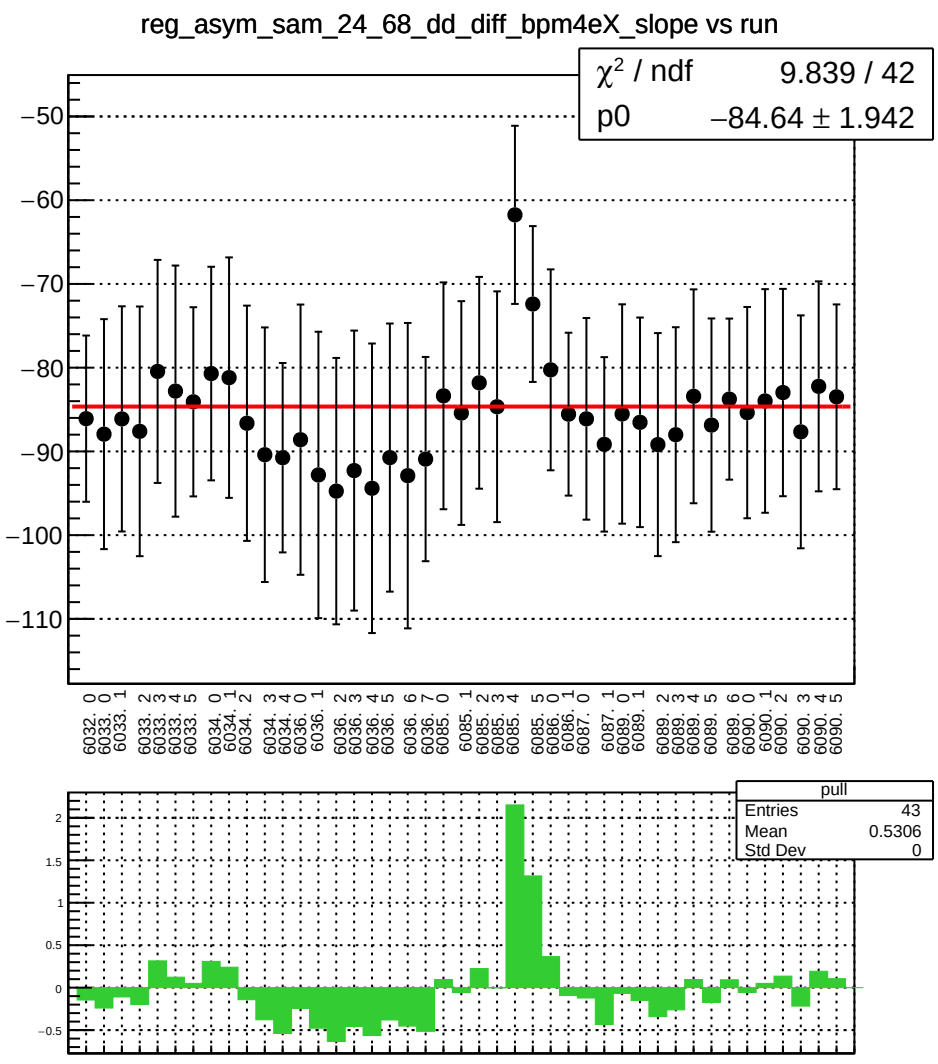

pull1D
Entries 43
Mean −0.07237
Std Dev 0.7282

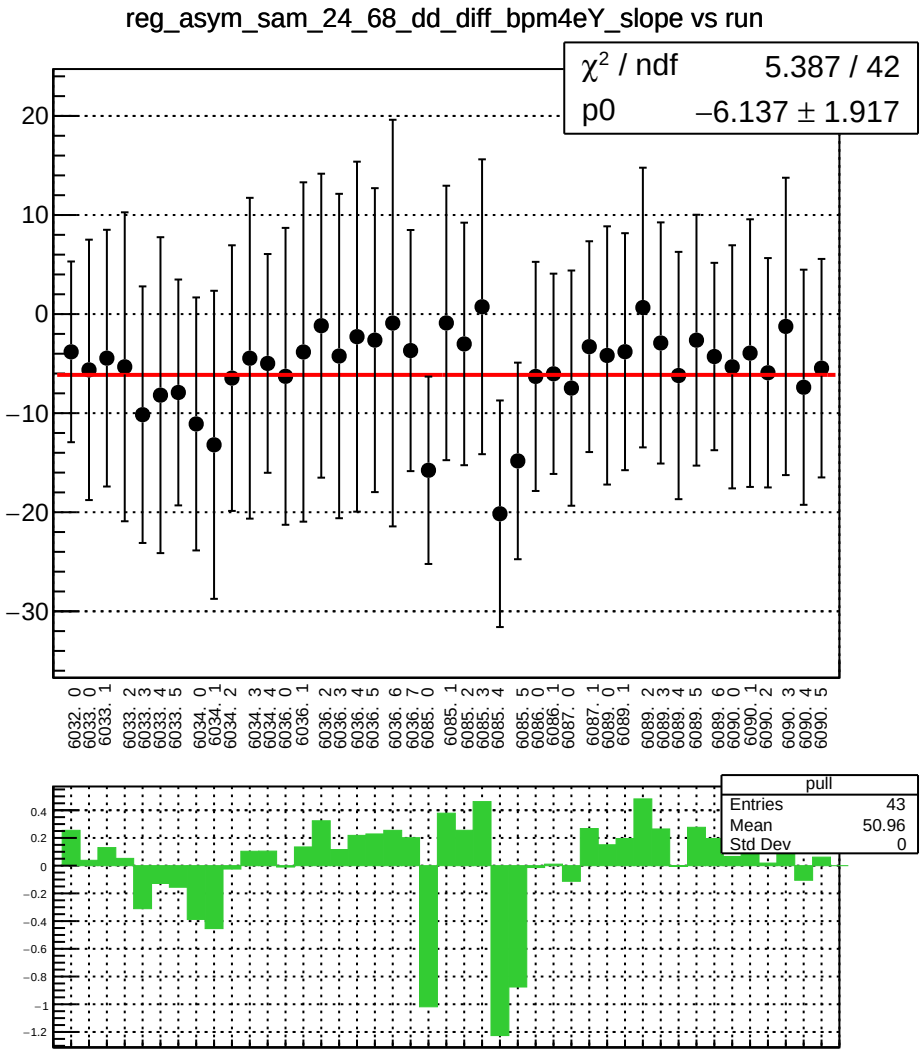

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.839 / 42
p0 0.2818 ± 0.05624
pull
Entries 43
Mean 79.97
Std Dev 0
pull1D
Entries 43
Mean −0.009099
Std Dev 0.2987

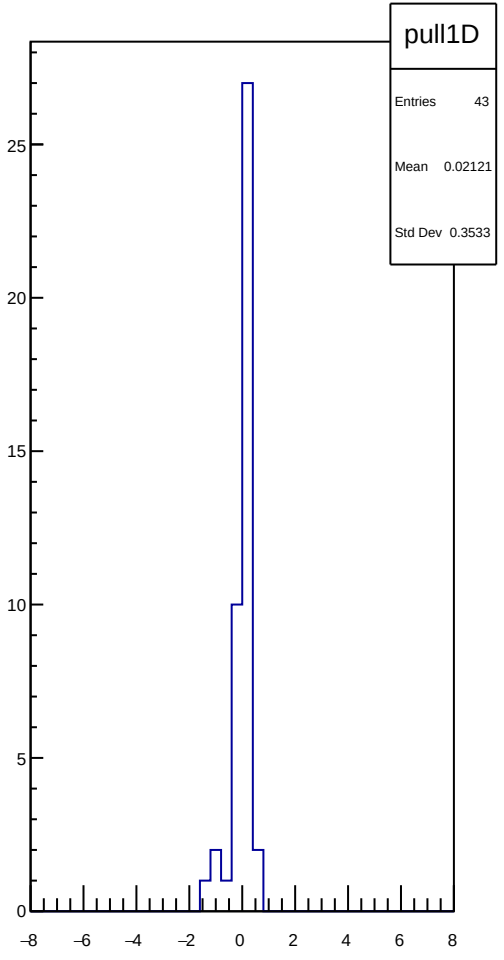

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 8.748 / 42
p0 −24.07 ± 1.711
0
−10
−20
−30
−40
−50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 117.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

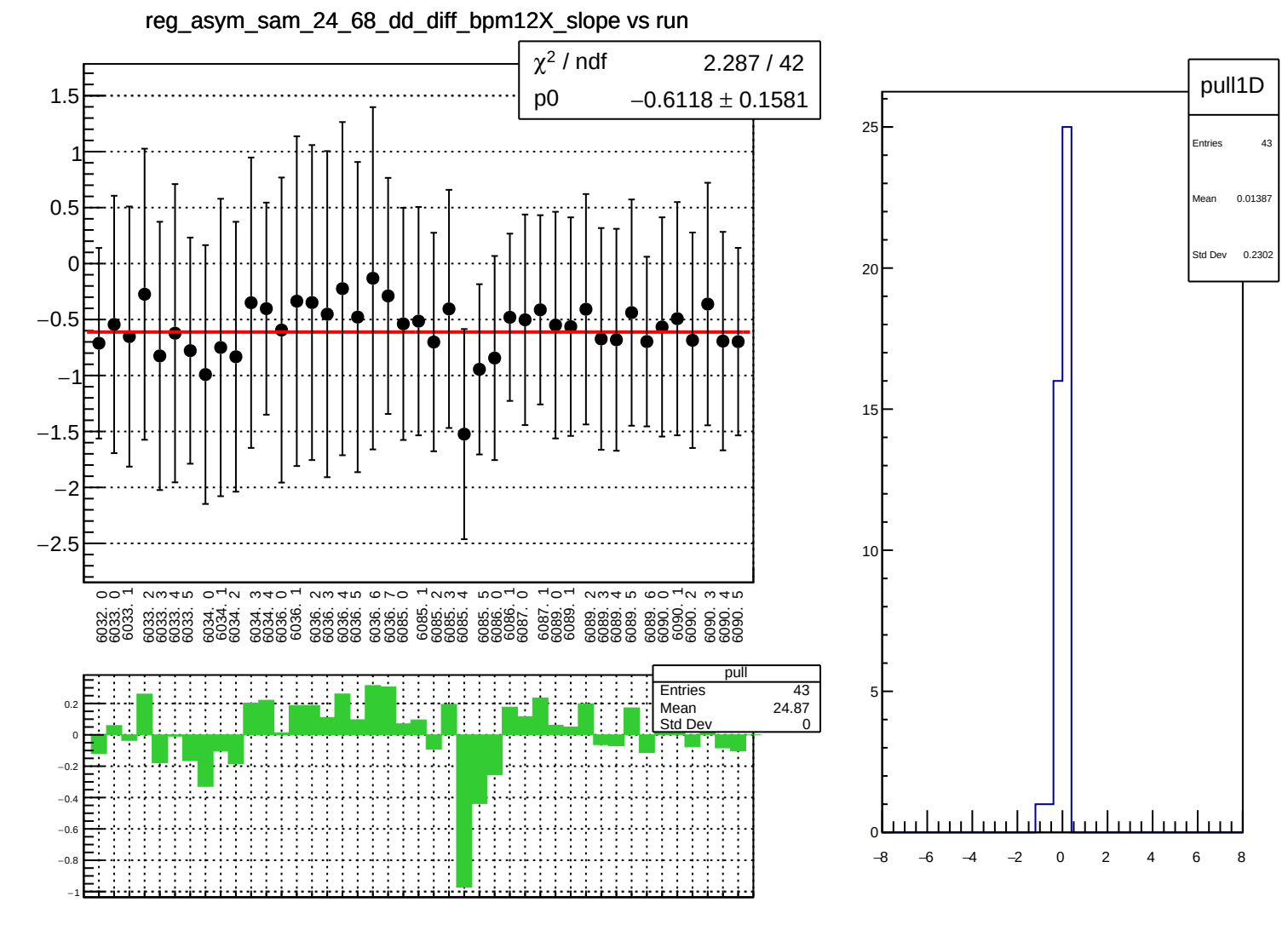

pull1D
Entries 43
Mean 0.01508
Std Dev 0.4508
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

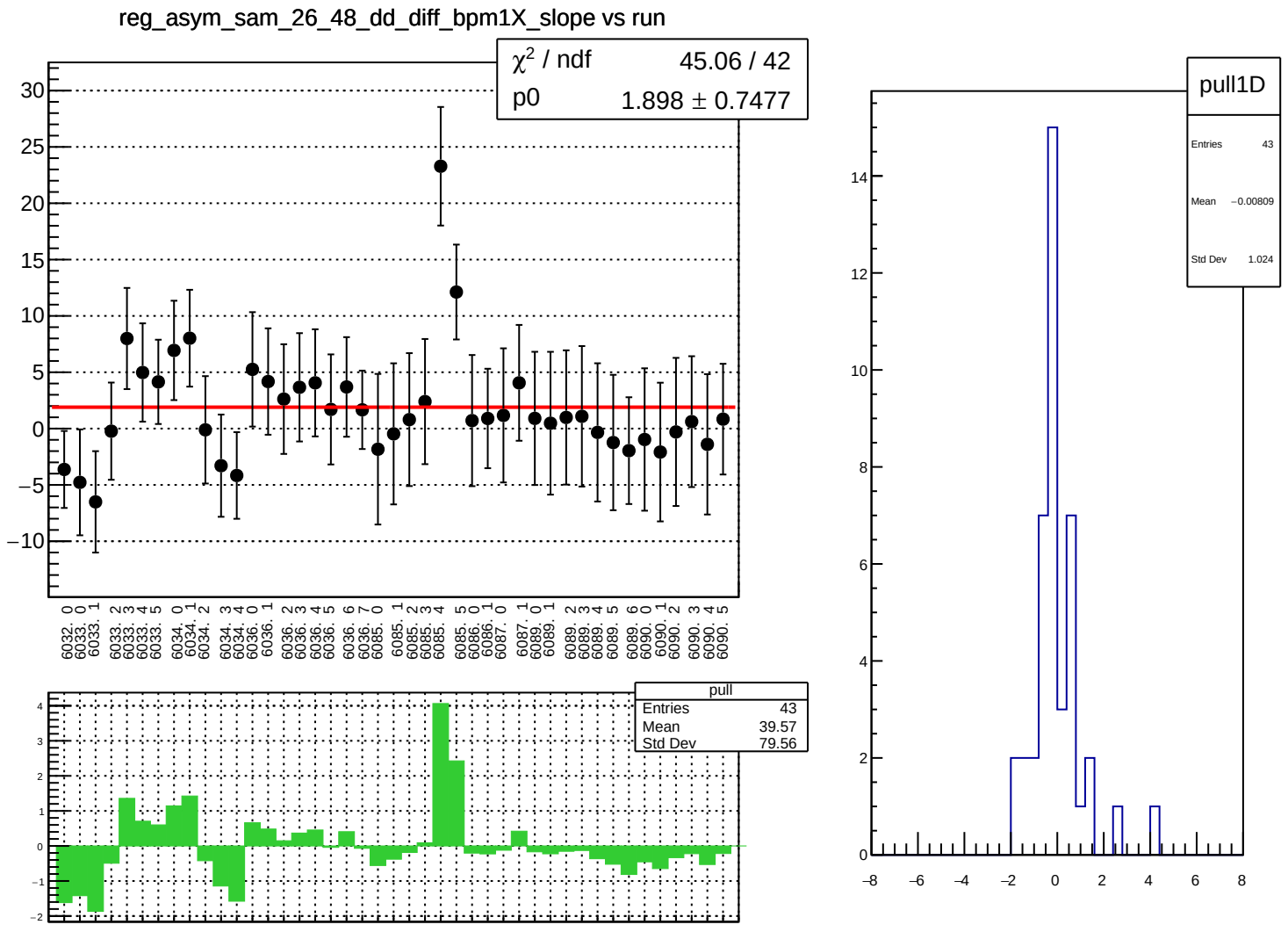

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.852 / 42
p0 −5.851 ± 1.785
pull
Entries 43
Mean 128.2
Std Dev 0
pull1D
Entries 43
Mean −0.01696
Std Dev 0.3685

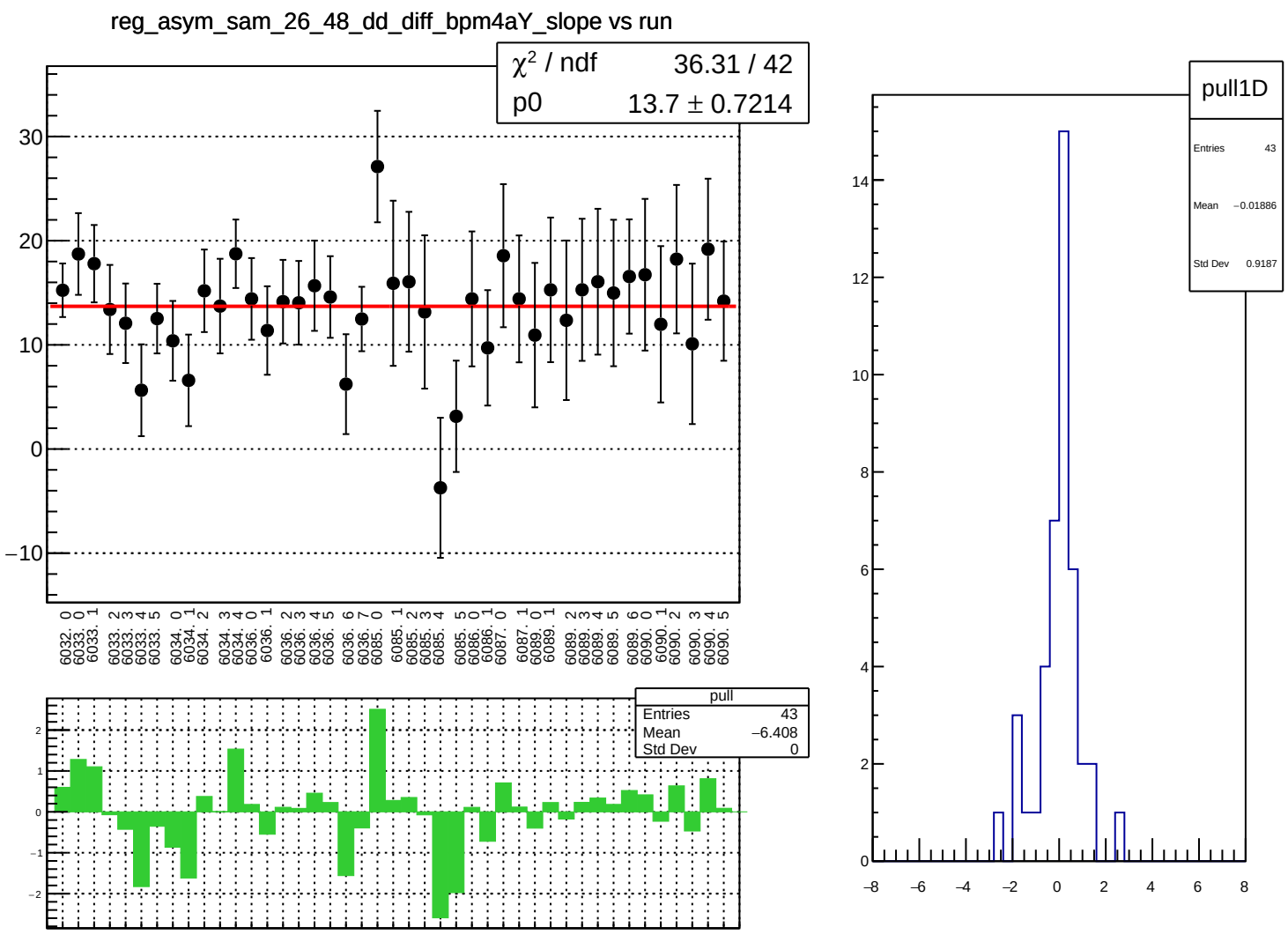

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.839 / 42
p0 −84.64 ± 1.942
−50
−60
−70
−80
−90
−100
−110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0.5306
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.03712
Std Dev 0.4769
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

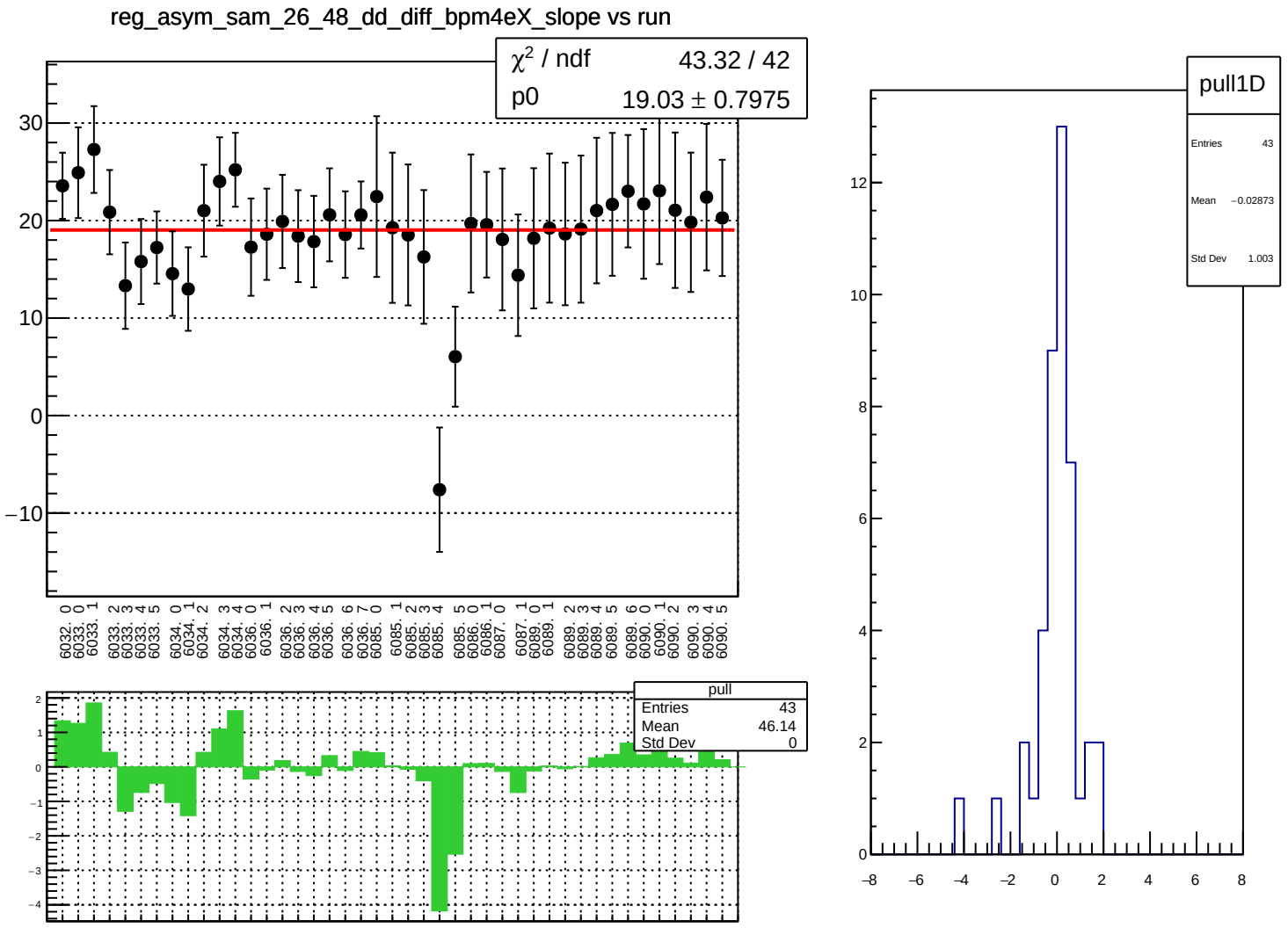

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.387 / 42
p0 −6.137 ± 1.917
pull
Entries 43
Mean 50.96
Std Dev 0

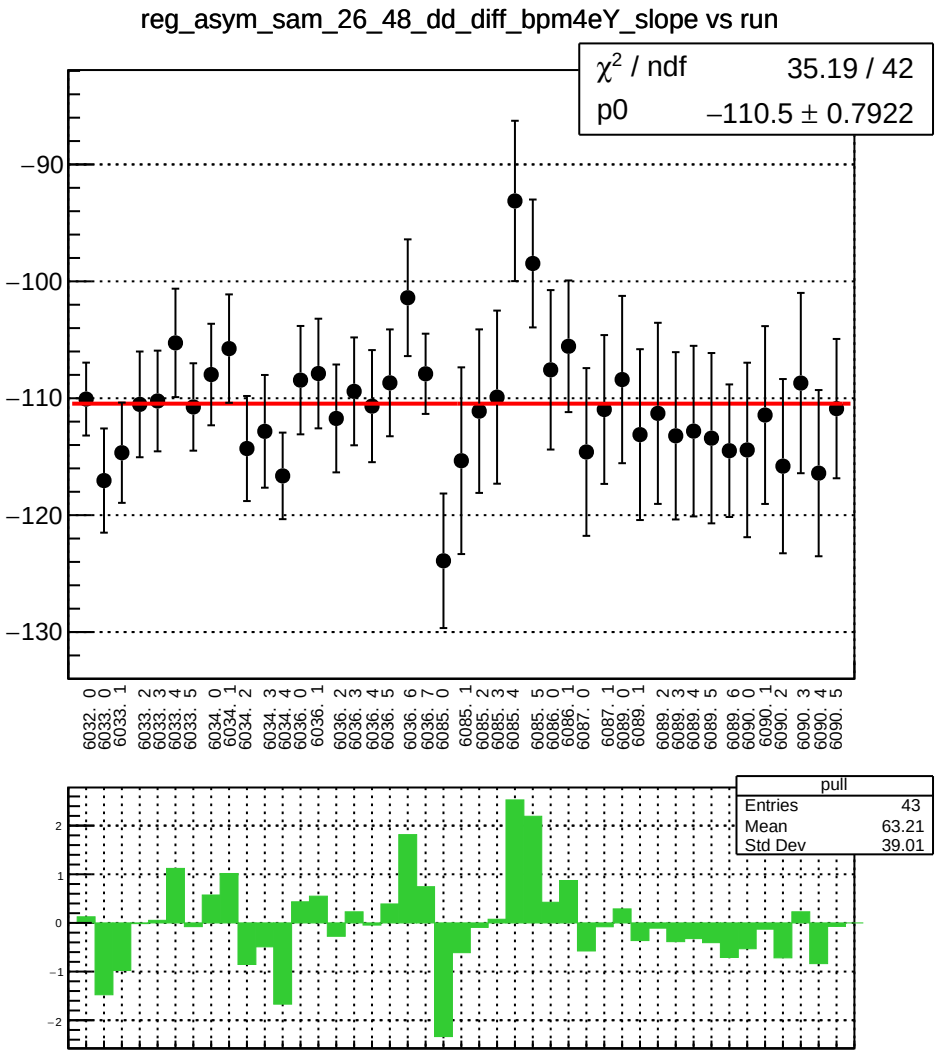

pull1D
Entries 43
Mean 0.02121
Std Dev 0.3533

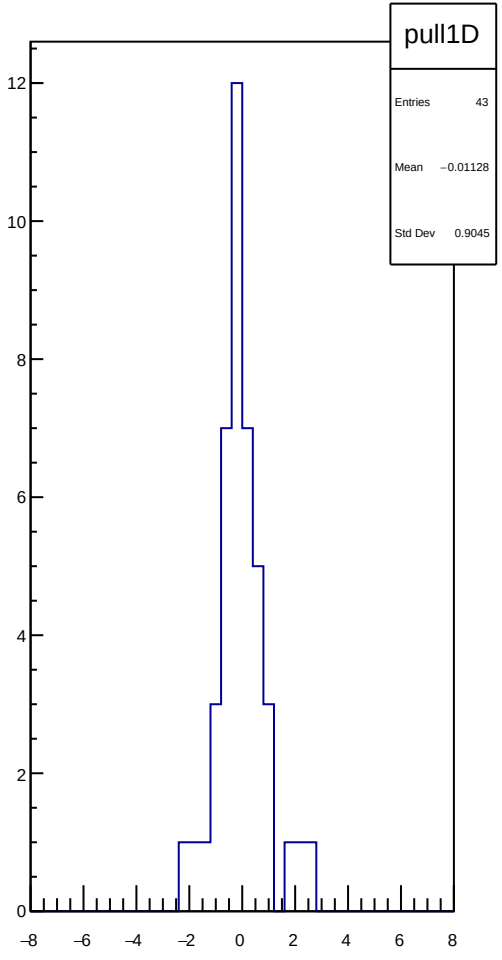

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.287 / 42
p0 −0.6118 ± 0.1581
pull
Entries 43
Mean 24.87
Std Dev 0
pull1D
Entries 43
Mean 0.01387
Std Dev 0.2302

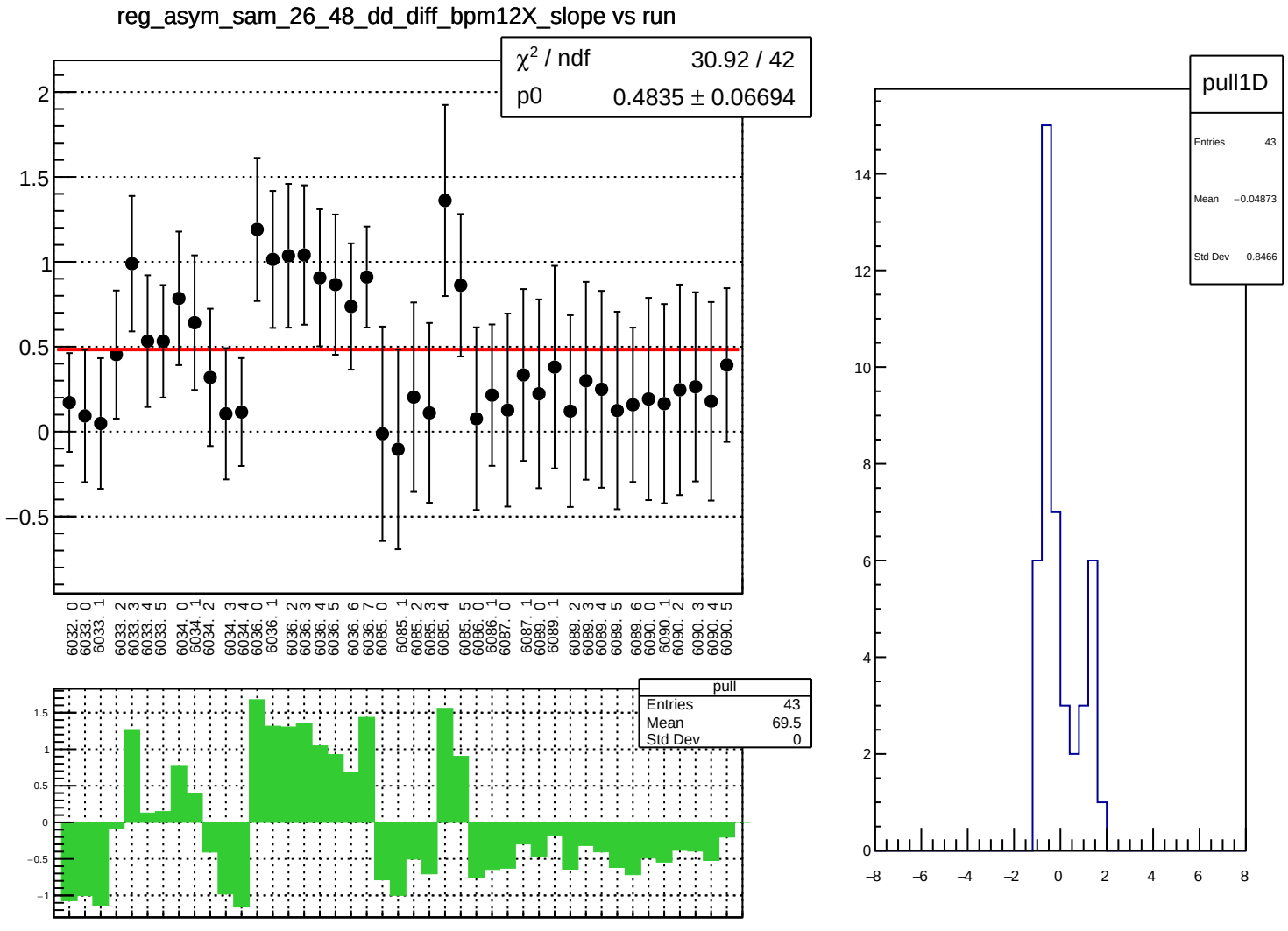

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 45.06 / 42
p0 1.898 ± 0.7477
pull
Entries 43
Mean 39.57
Std Dev 79.56
pull1D
Entries 43
Mean −0.00809
Std Dev 1.024

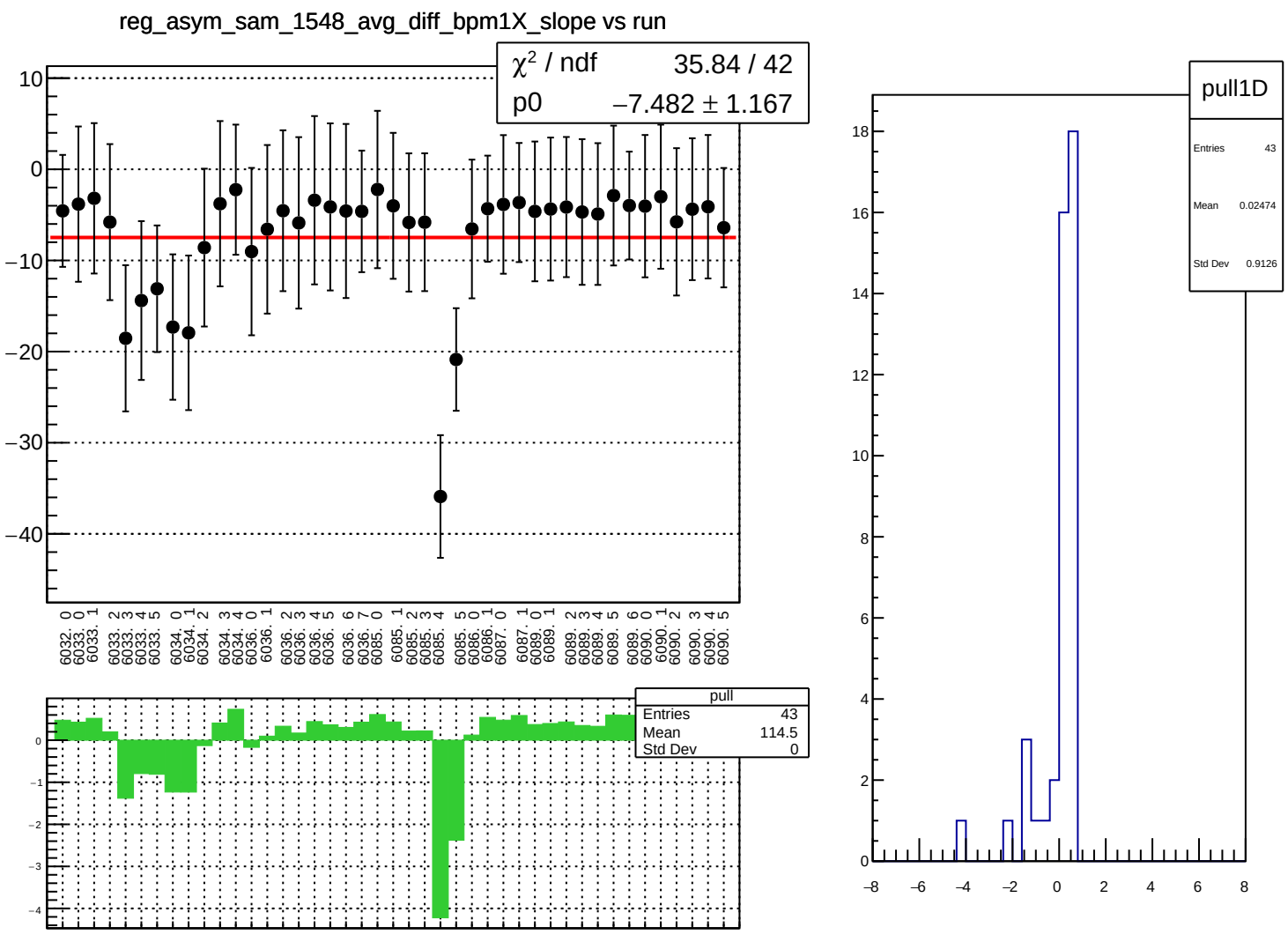

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.31 / 42
p0 13.7 ± 0.7214
pull
Entries 43
Mean −6.408
Std Dev 0
pull1D
Entries 43
Mean −0.01886
Std Dev 0.9187


reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.32 / 42
p0 19.03 ± 0.7975
30
20
10
0
−10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 46.14
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.02873
Std Dev 1.003
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 35.19 / 42
p0 −110.5 ± 0.7922
−90
−100
−110
−120
−130
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 63.21
Std Dev 39.01
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.01128
Std Dev 0.9045
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 30.92 / 42
p0 0.4835 ± 0.06694
pull
Entries 43
Mean 69.5
Std Dev 0
pull1D
Entries 43
Mean −0.04873
Std Dev 0.8466


reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 35.84 / 42
p0 −7.482 ± 1.167
10
0
−10
−20
−30
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
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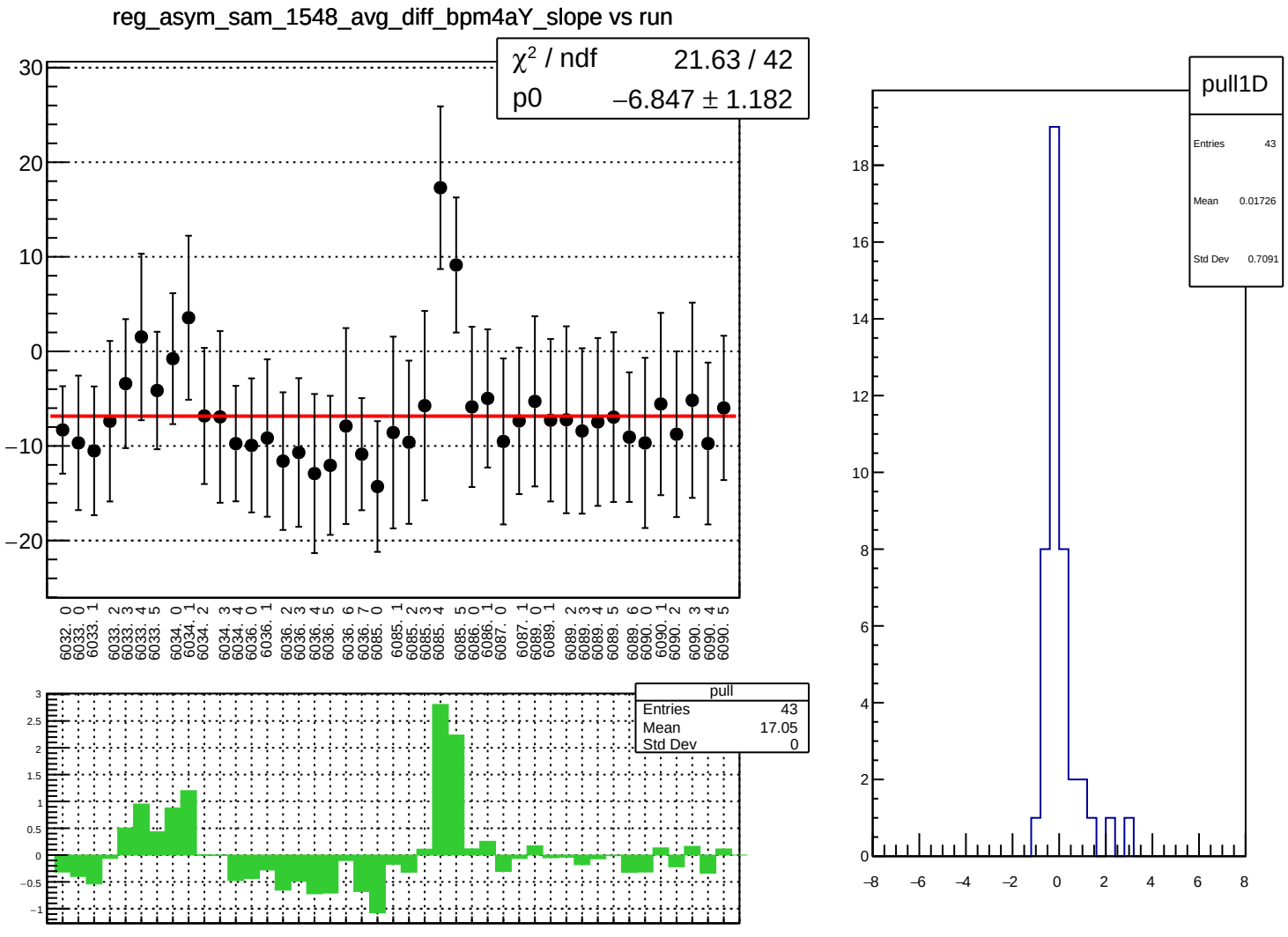
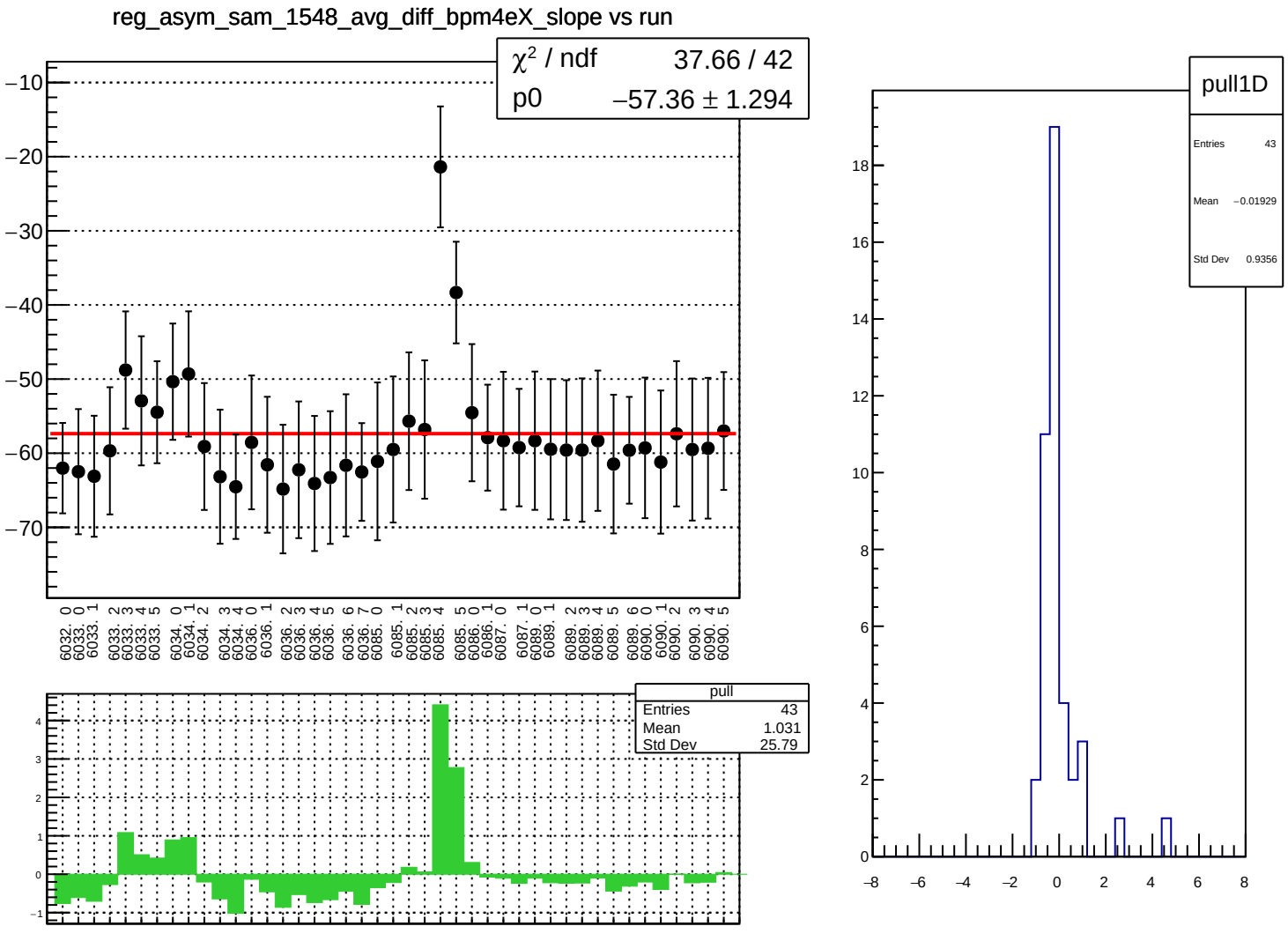
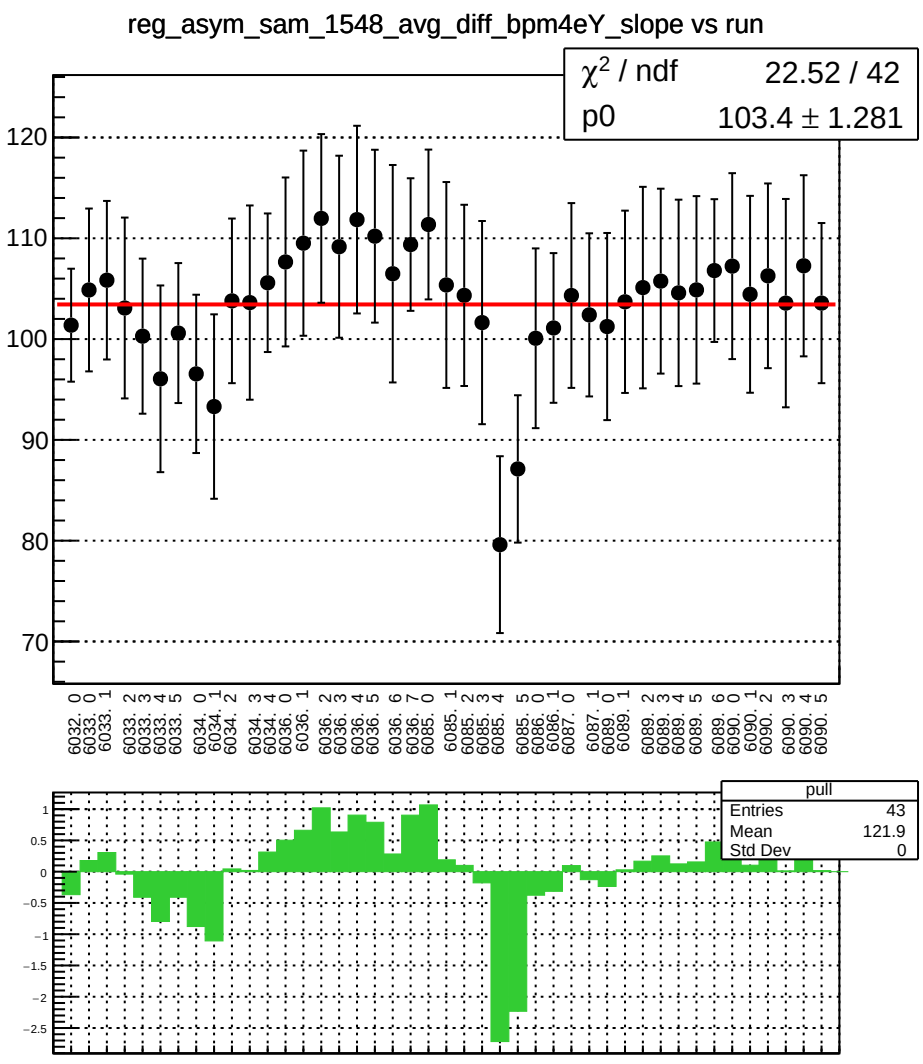
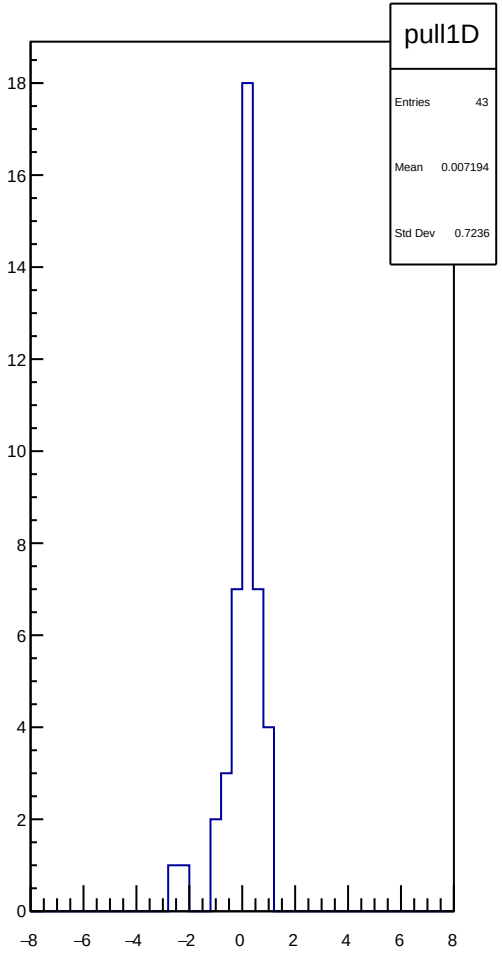
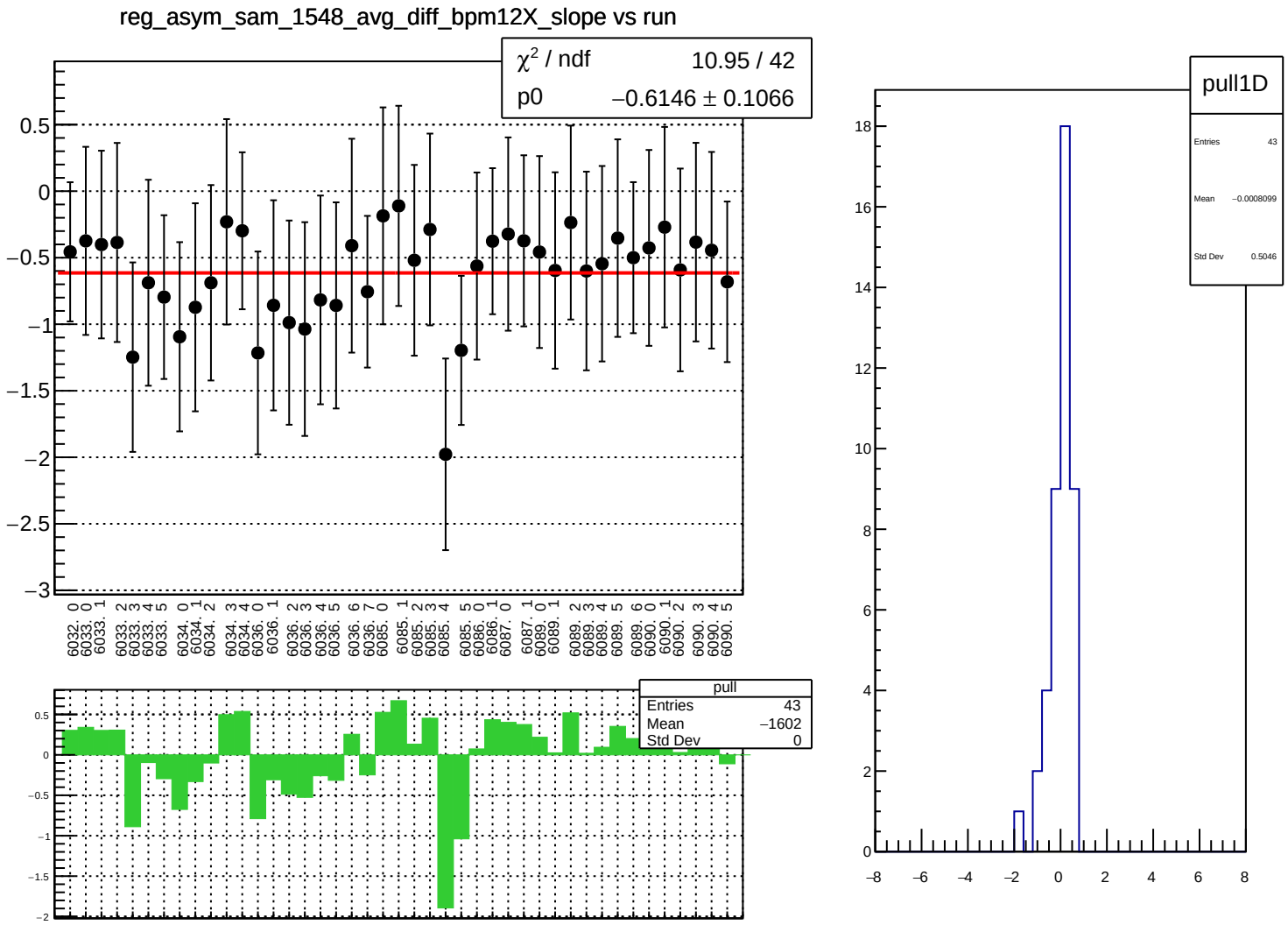
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 114.5
Std Dev 0
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.02474
Std Dev 0.9126
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

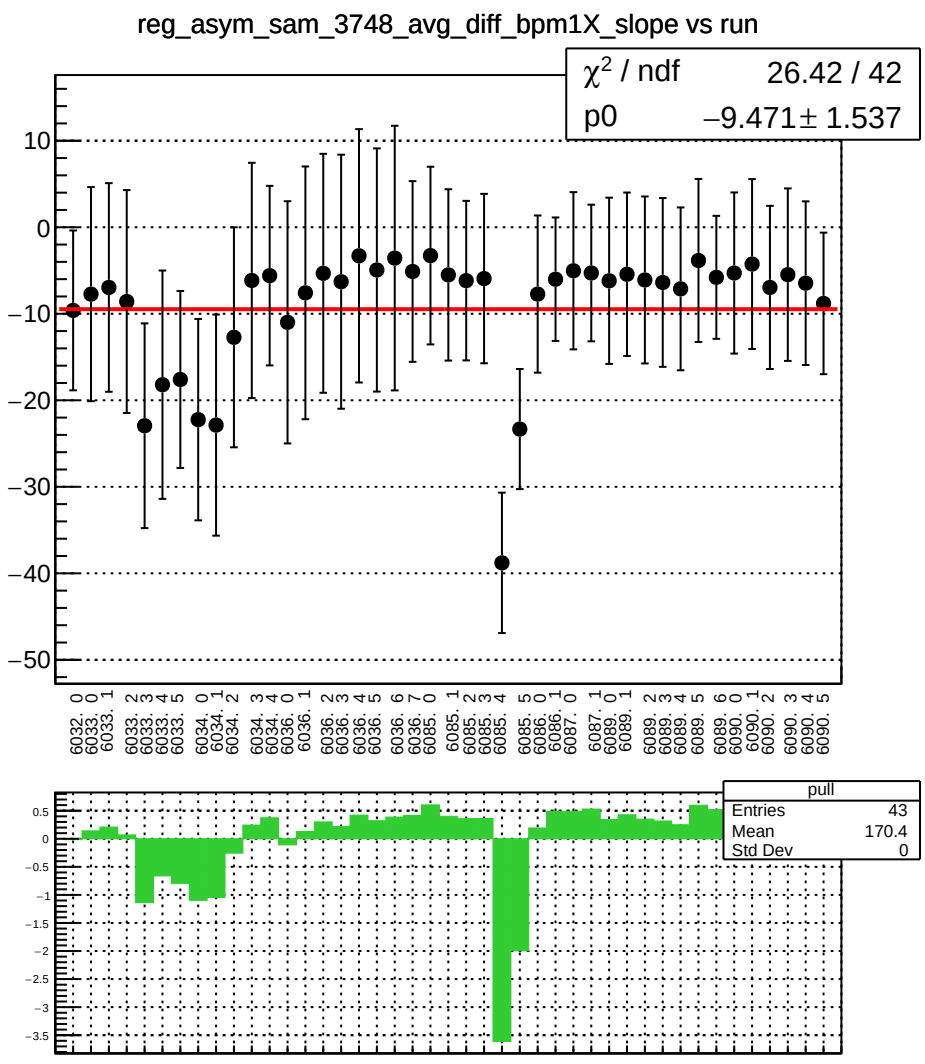

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.63 / 42
p0 −6.847 ± 1.182
pull
Entries 43
Mean 17.05
Std Dev 0
pull1D
Entries 43
Mean 0.01726
Std Dev 0.7091

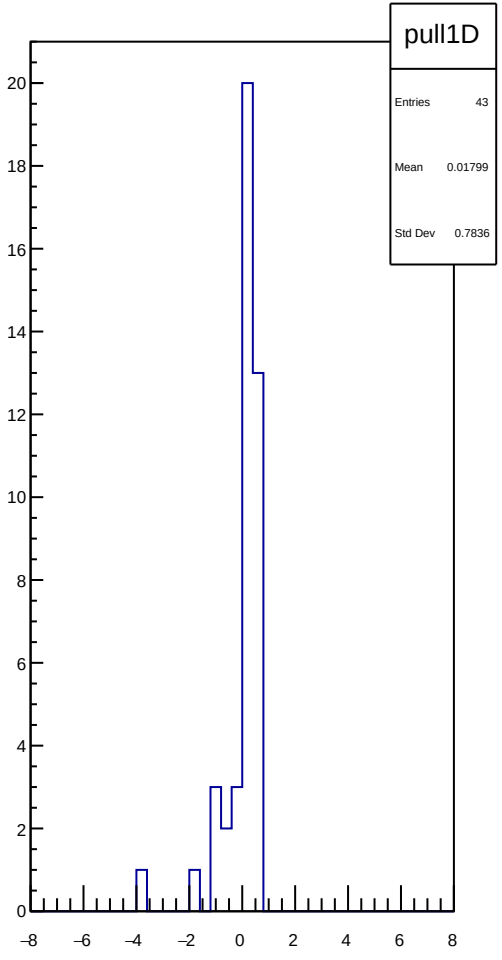

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.66 / 42
p0 −57.36 ± 1.294
−10
−20
−30
−40
−50
−60
−70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1.031
Std Dev 25.79
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.01929
Std Dev 0.9356
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

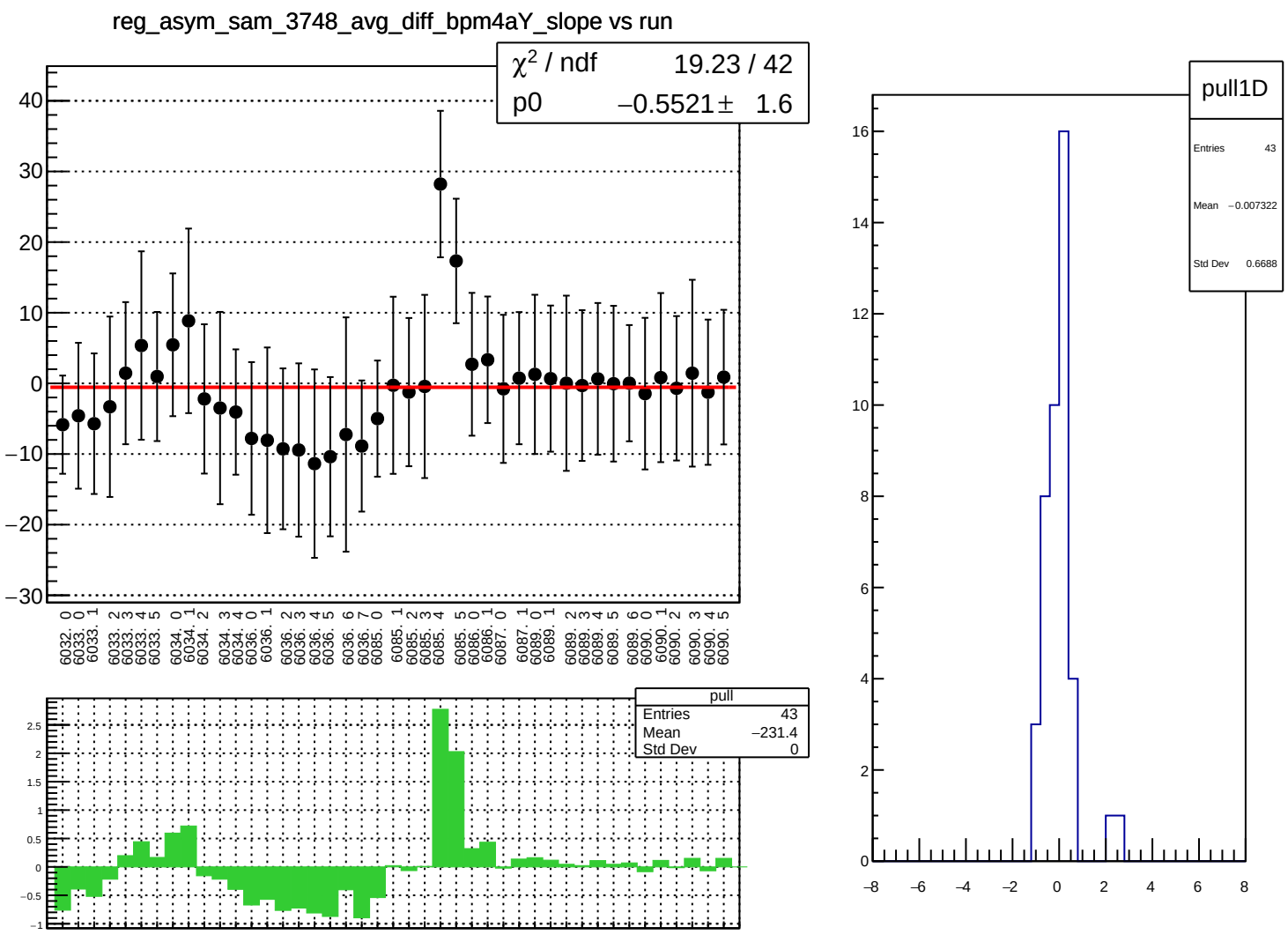

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.52 / 42
p0 103.4 ± 1.281
120
110
100
90
80
70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 121.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

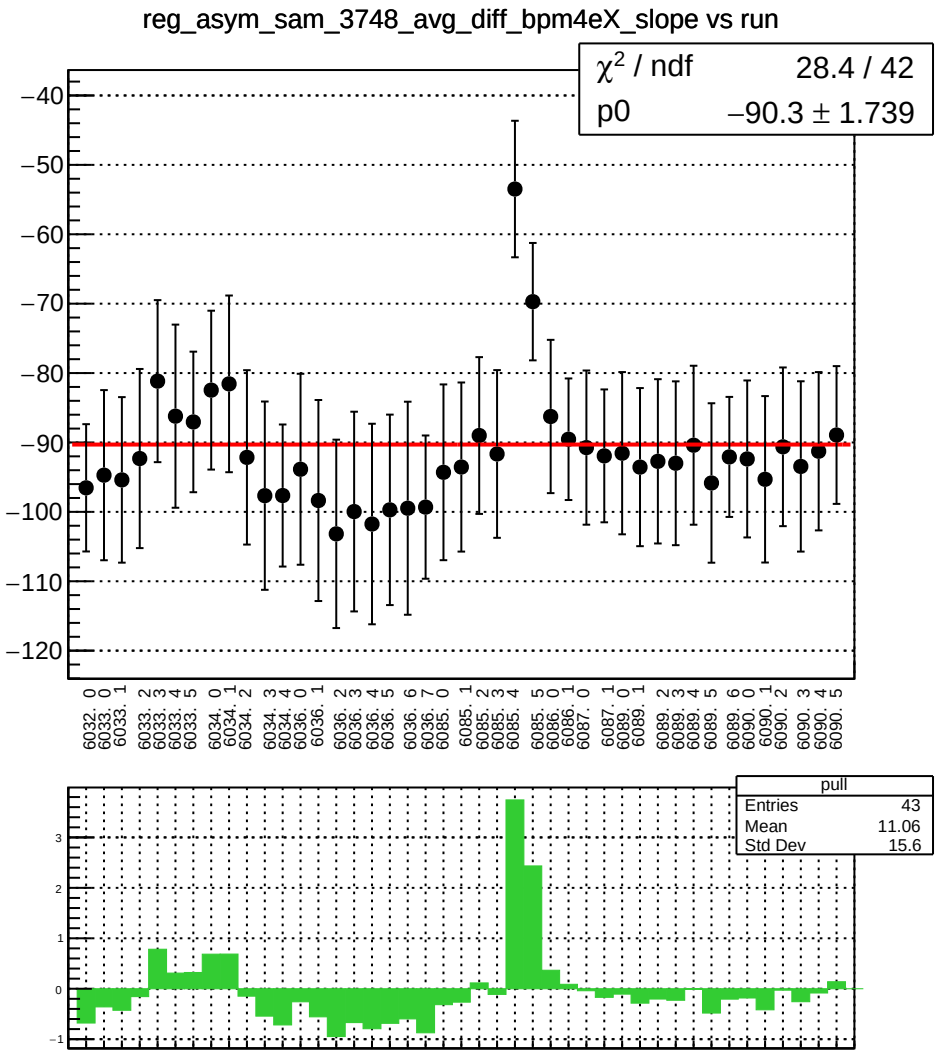

pull1D
Entries 43
Mean 0.007194
Std Dev 0.7236
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

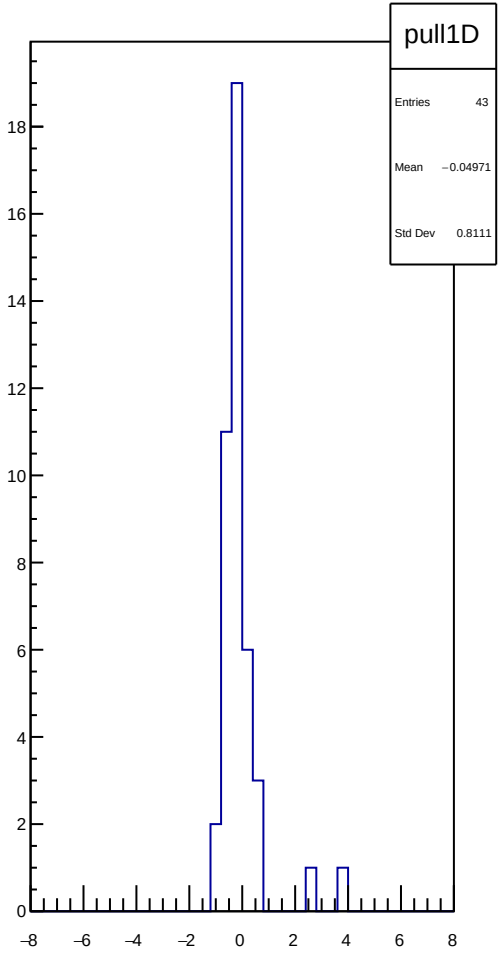

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 10.95 / 42
p0 −0.6146 ± 0.1066
pull
Entries 43
Mean −1602
Std Dev 0
pull1D
Entries 43
Mean −0.0008099
Std Dev 0.5046

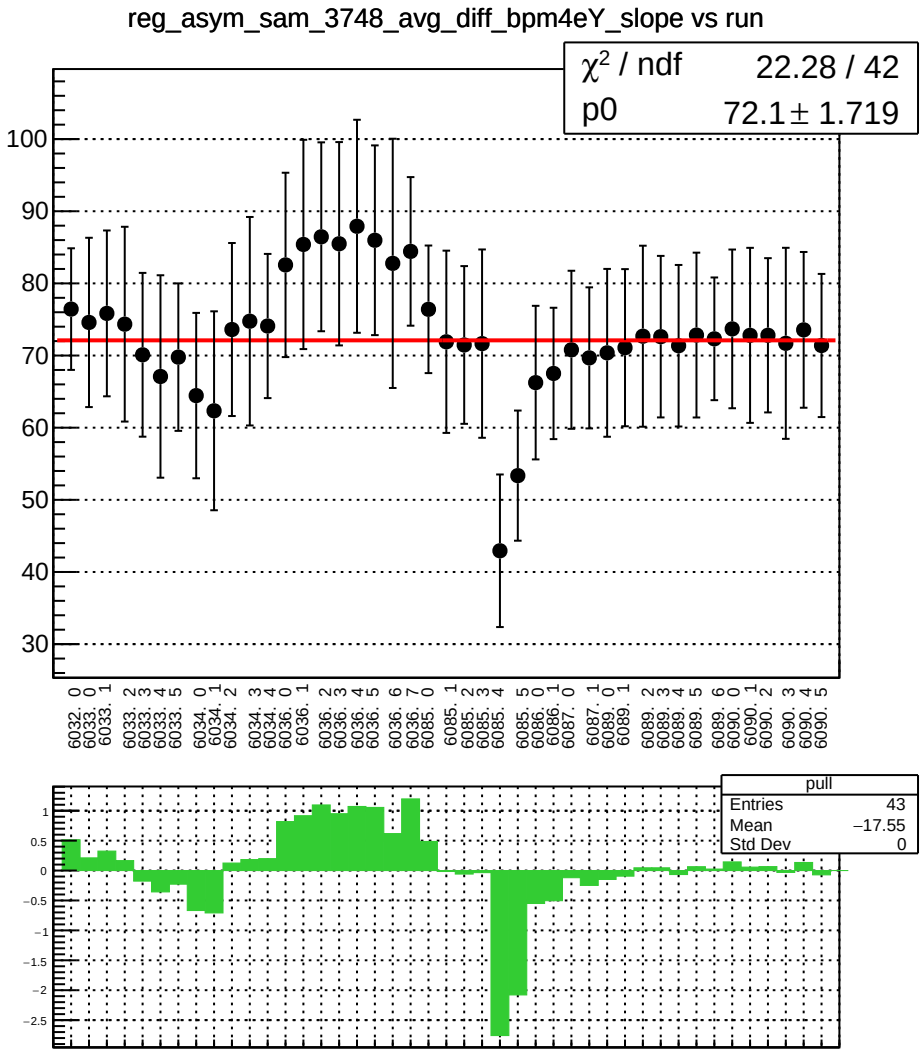

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 26.42 / 42
p0 −9.471± 1.537
pull
Entries 43
Mean 170.4
Std Dev 0

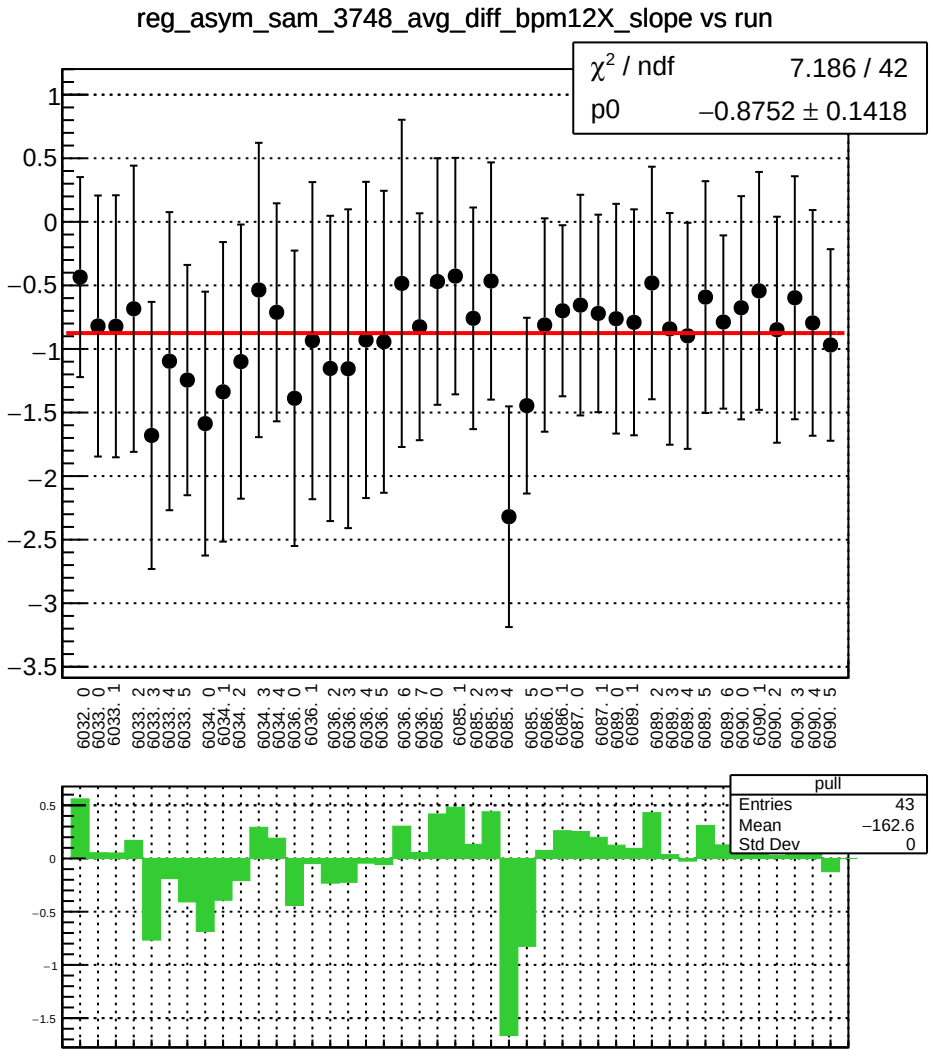

pull1D
Entries 43
Mean 0.01799
Std Dev 0.7836

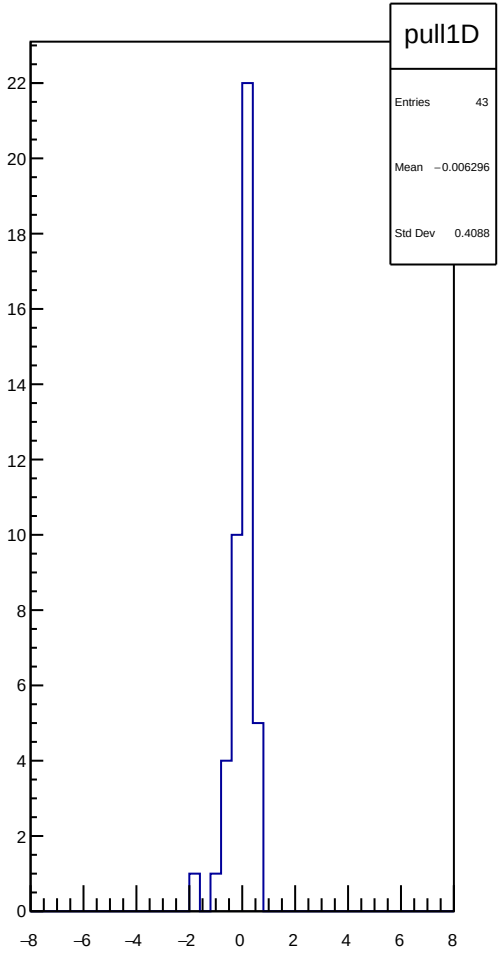

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.23 / 42
p0 −0.5521 ± 1.6
pull
Entries 43
Mean −231.4
Std Dev 0
pull1D
Entries 43
Mean −0.007322
Std Dev 0.6688

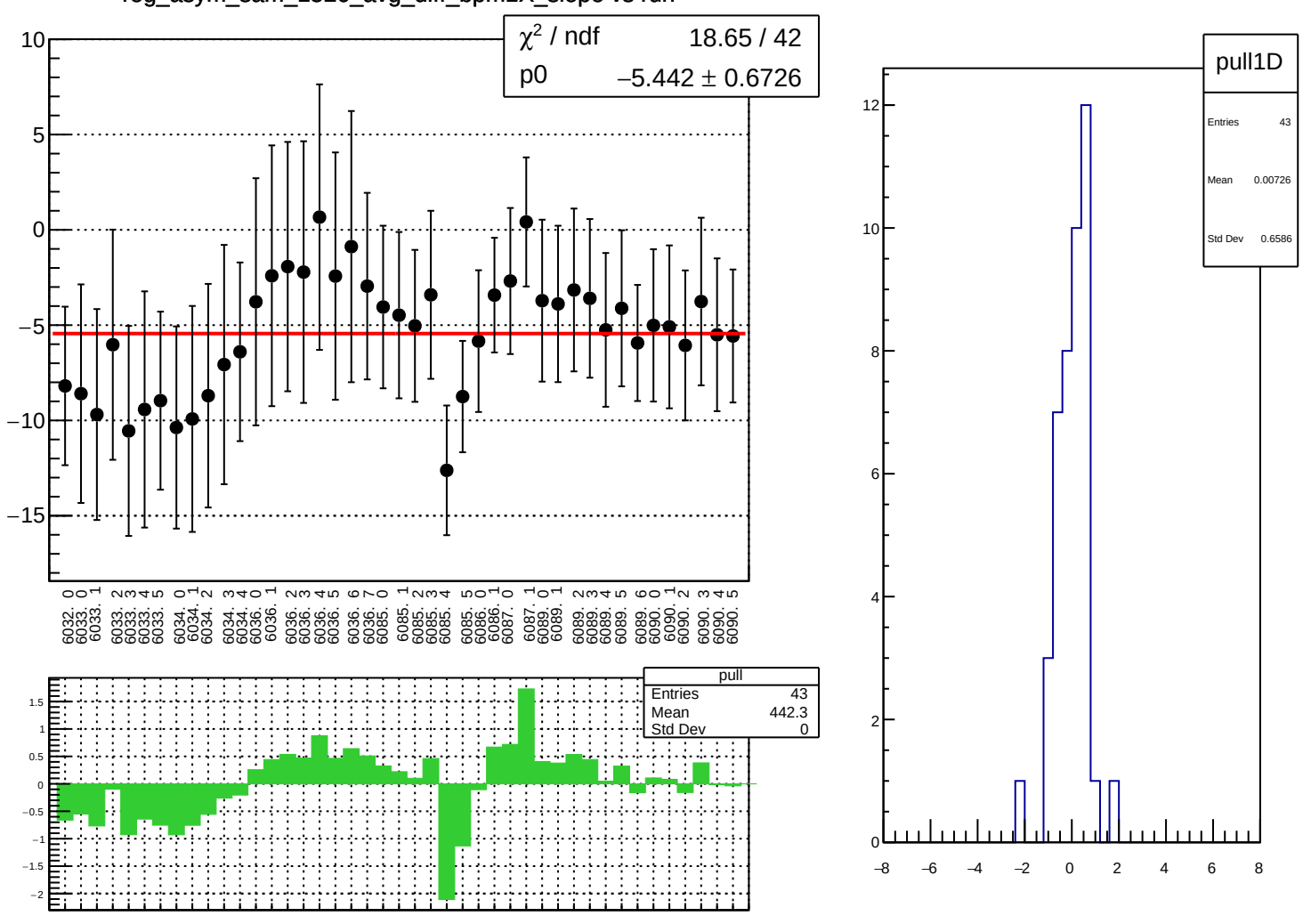

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.4 / 42
p0 −90.3 ± 1.739
pull
Entries 43
Mean 11.06
Std Dev 15.6

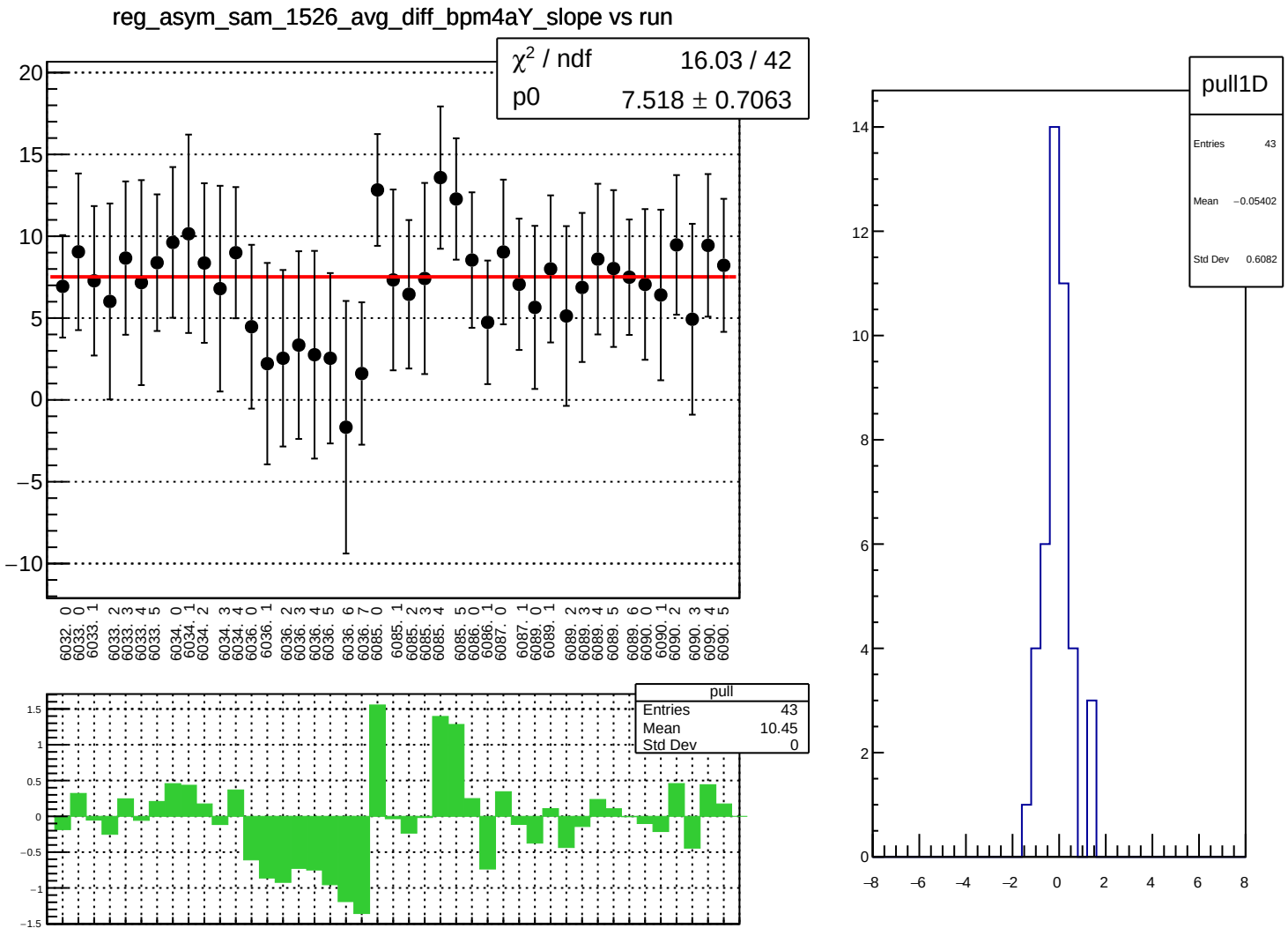

pull1D
Entries 43
Mean −0.04971
Std Dev 0.8111

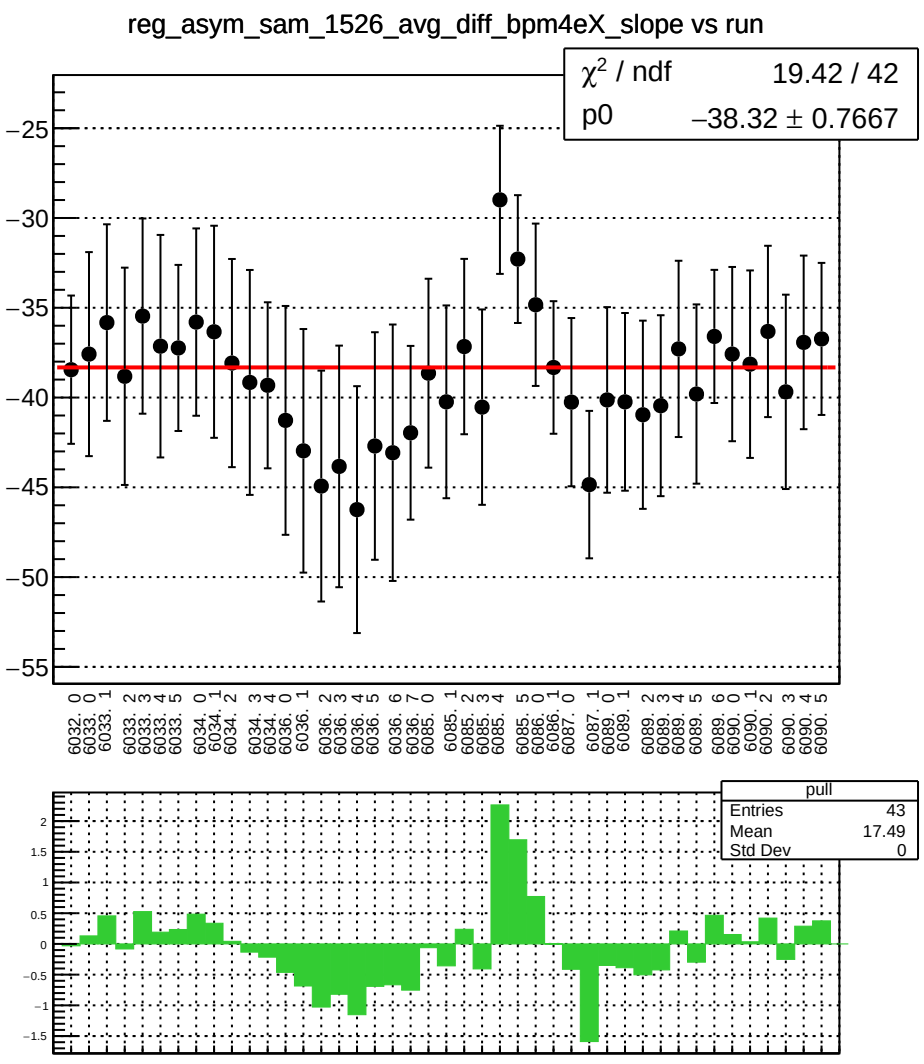

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.28 / 42
p0 72.1 ± 1.719
pull
Entries 43
Mean −17.55
Std Dev 0
pull1D
Entries 43
Mean 0.03721
Std Dev 0.7189

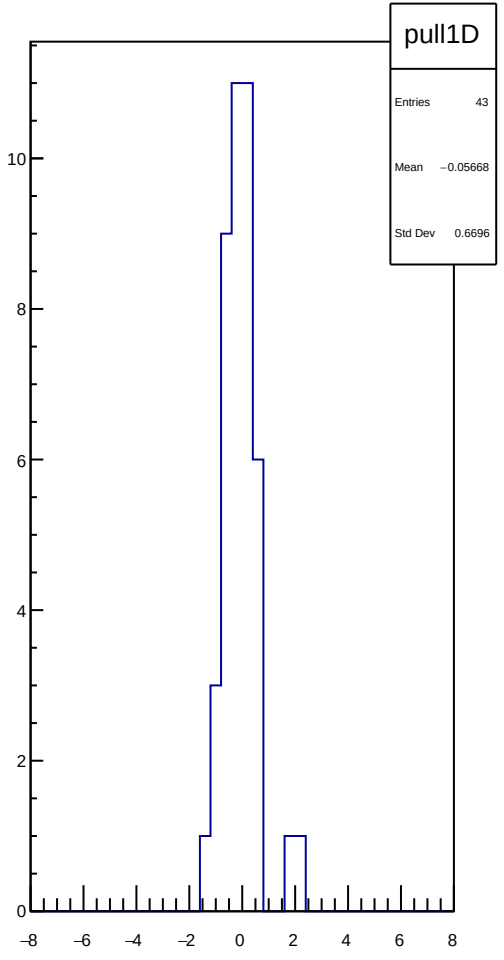

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 7.186 / 42
p0 −0.8752 ± 0.1418
pull
Entries 43
Mean −162.6
Std Dev 0

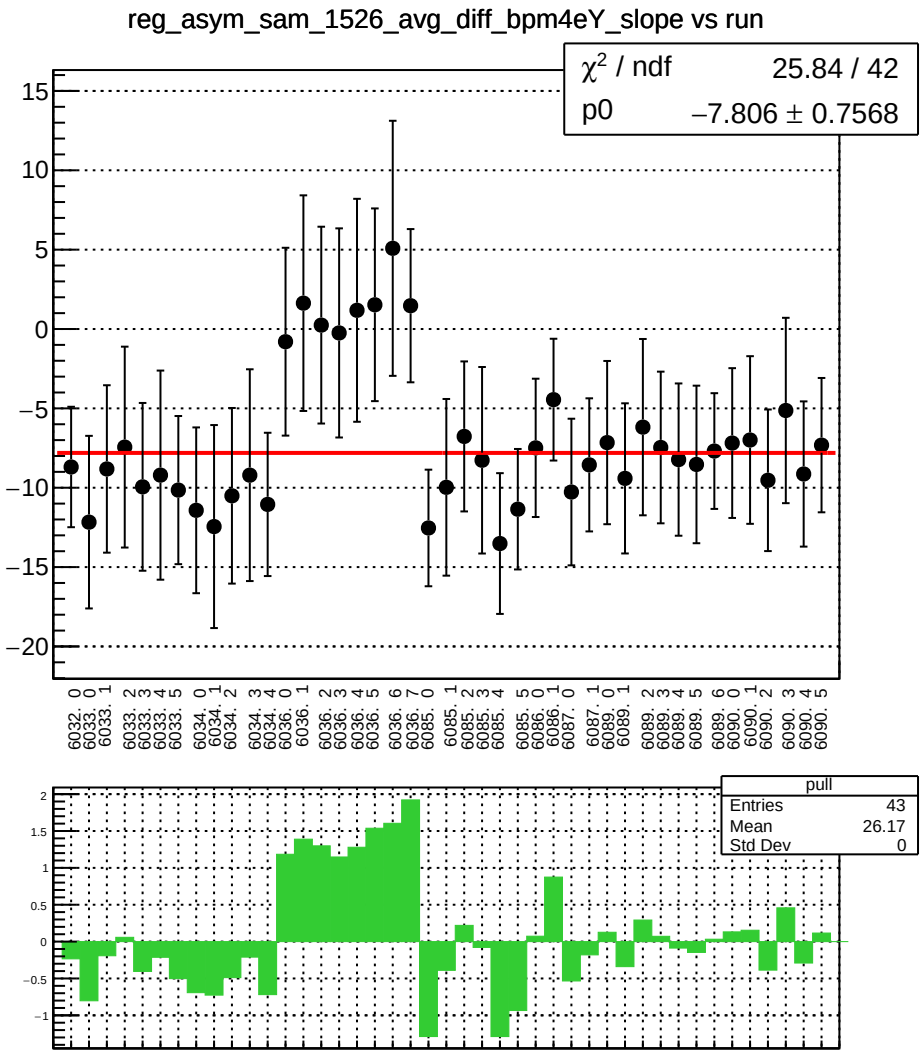

pull1D
Entries 43
Mean −0.006296
Std Dev 0.4088

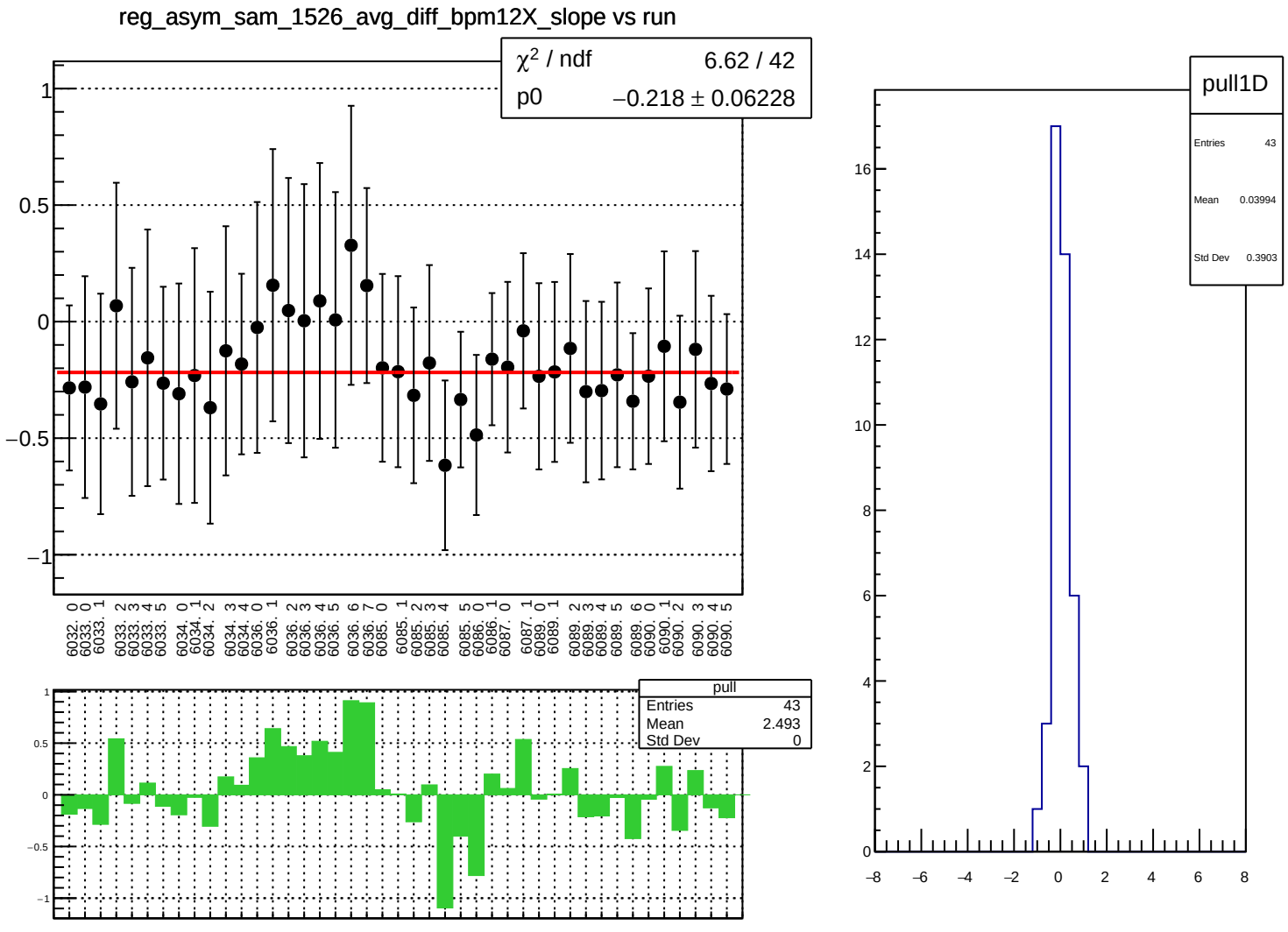

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 18.65 / 42
p0 −5.442 ± 0.6726
pull
Entries 43
Mean 442.3
Std Dev 0
pull1D
Entries 43
Mean 0.00726
Std Dev 0.6586

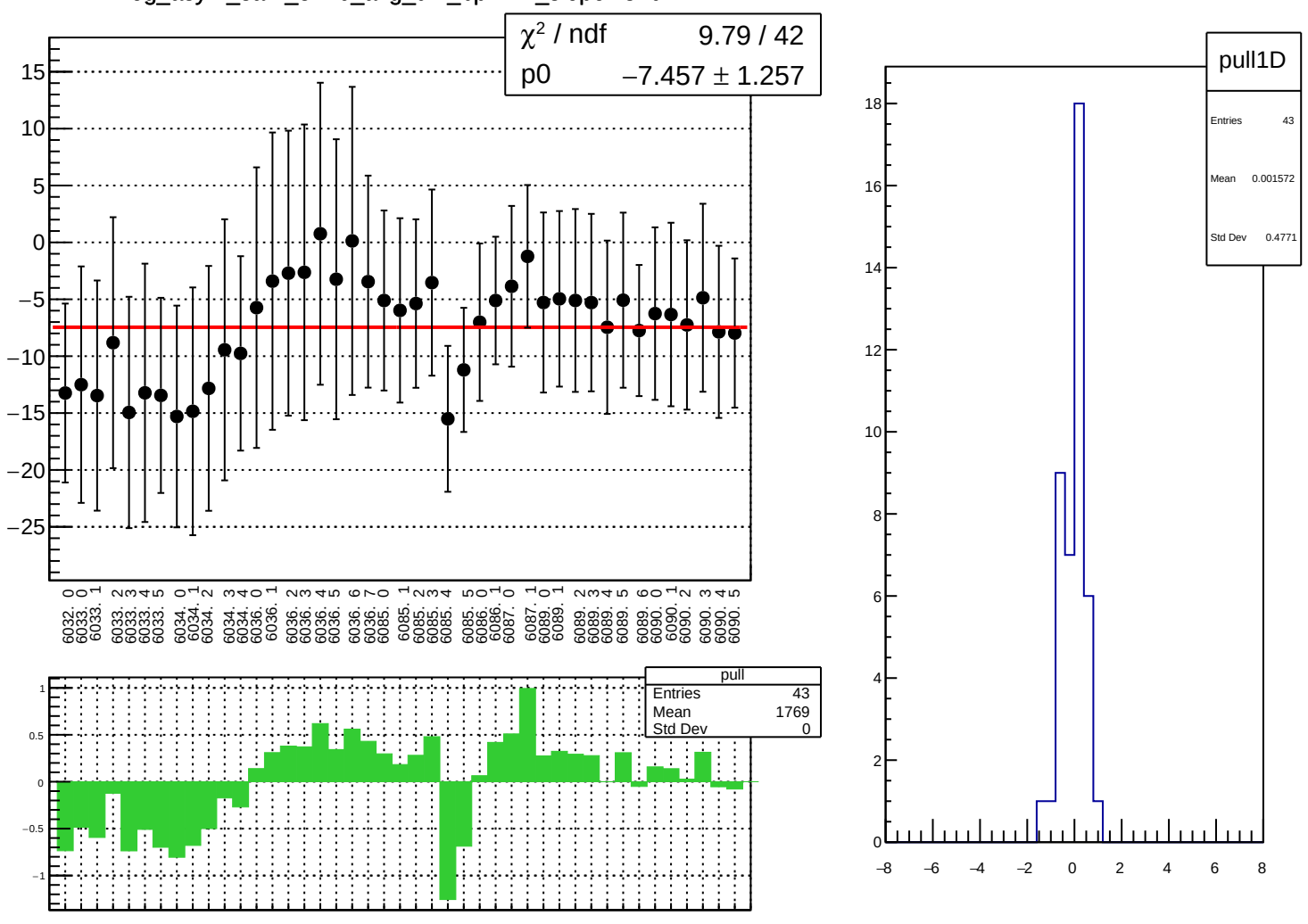

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.03 / 42
p0 7.518 ± 0.7063
pull
Entries 43
Mean 10.45
Std Dev 0
pull1D
Entries 43
Mean −0.05402
Std Dev 0.6082

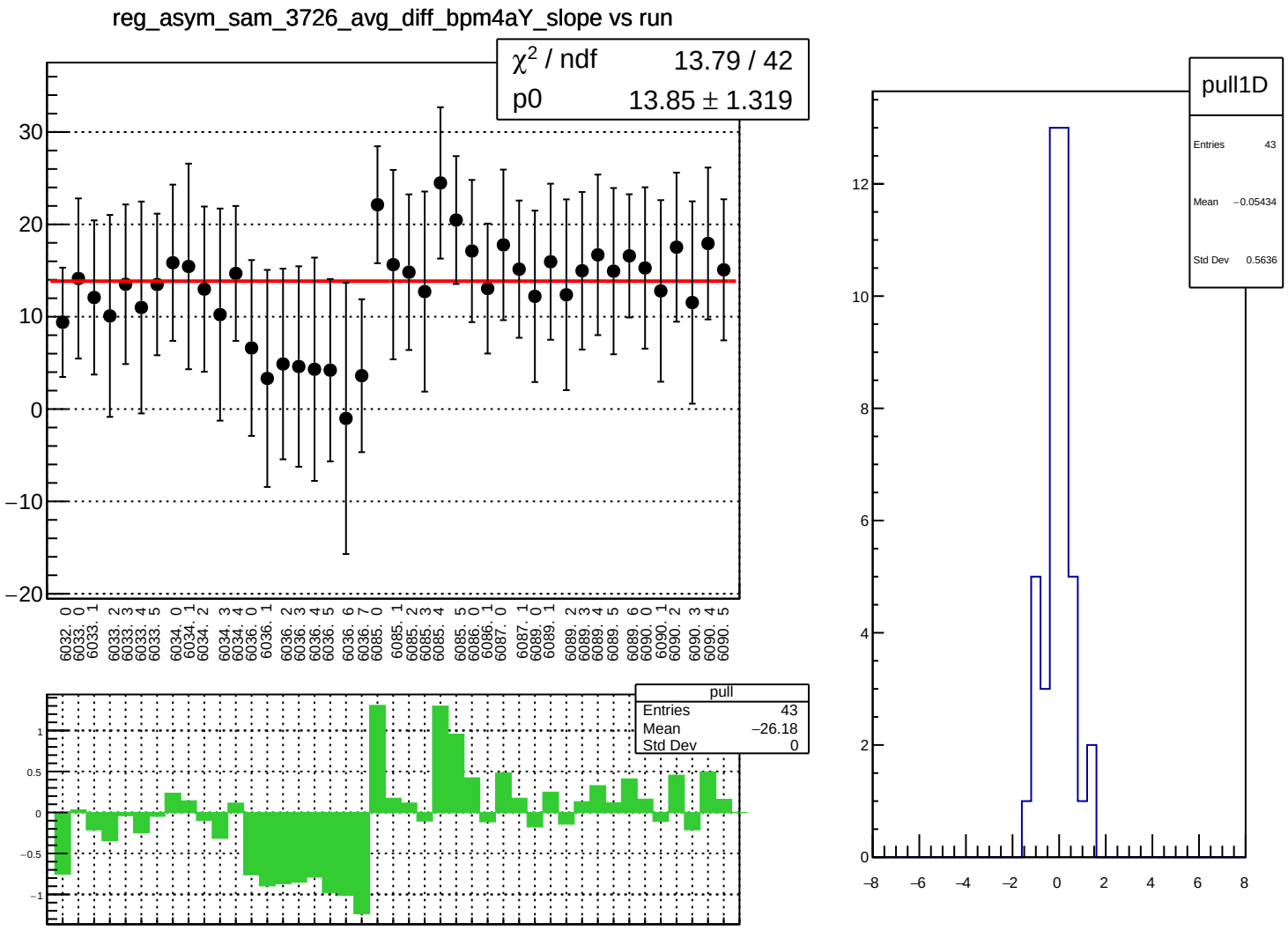

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.42 / 42
p0 −38.32 ± 0.7667
pull
Entries 43
Mean 17.49
Std Dev 0

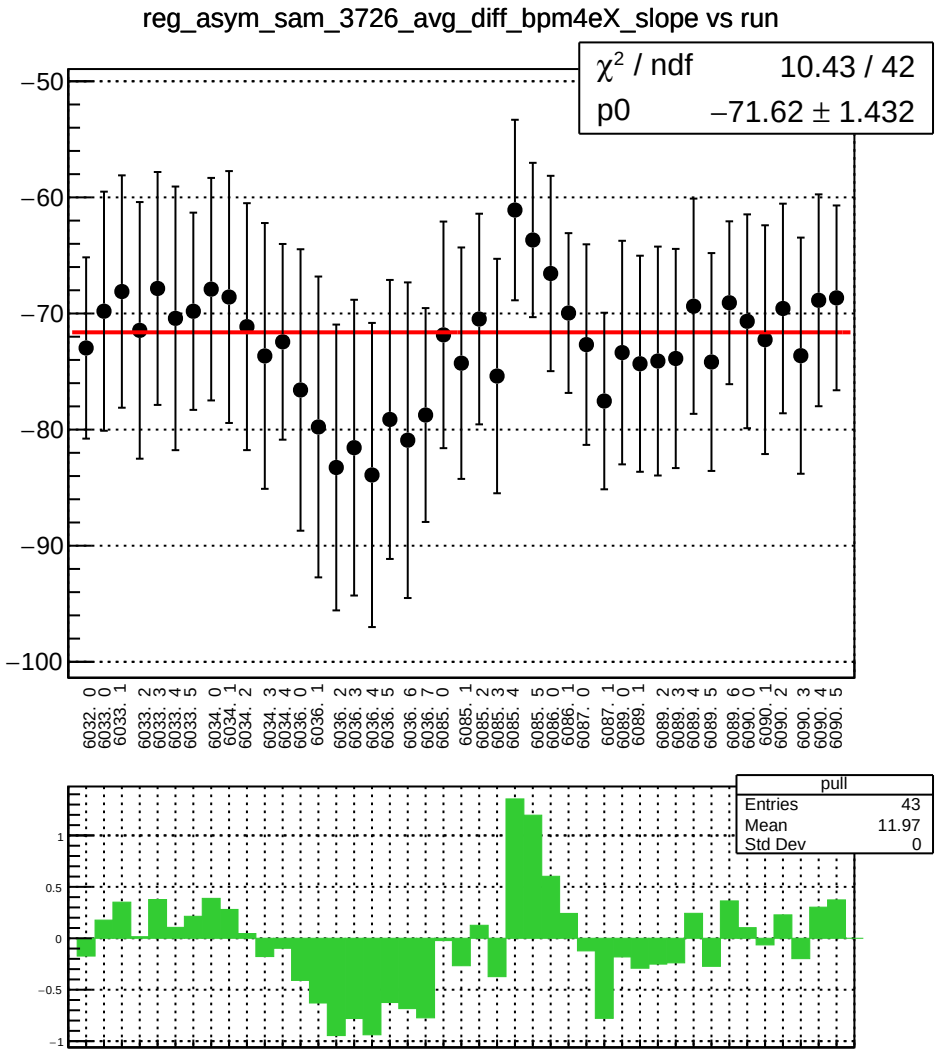

pull1D
Entries 43
Mean −0.05668
Std Dev 0.6696

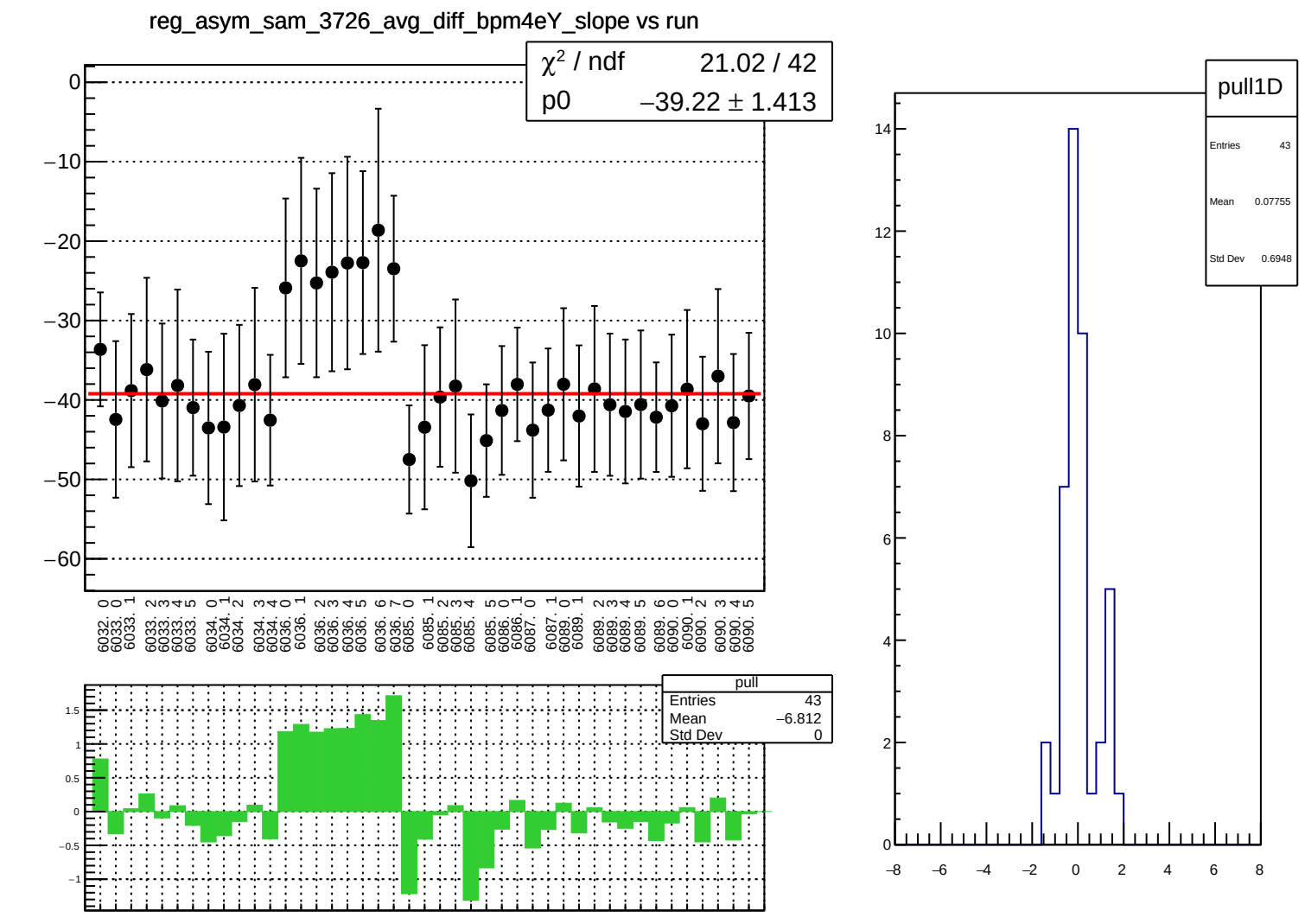

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.84 / 42
p0 −7.806 ± 0.7568
pull
Entries 43
Mean 26.17
Std Dev 0
pull1D
Entries 43
Mean 0.06616
Std Dev 0.7723

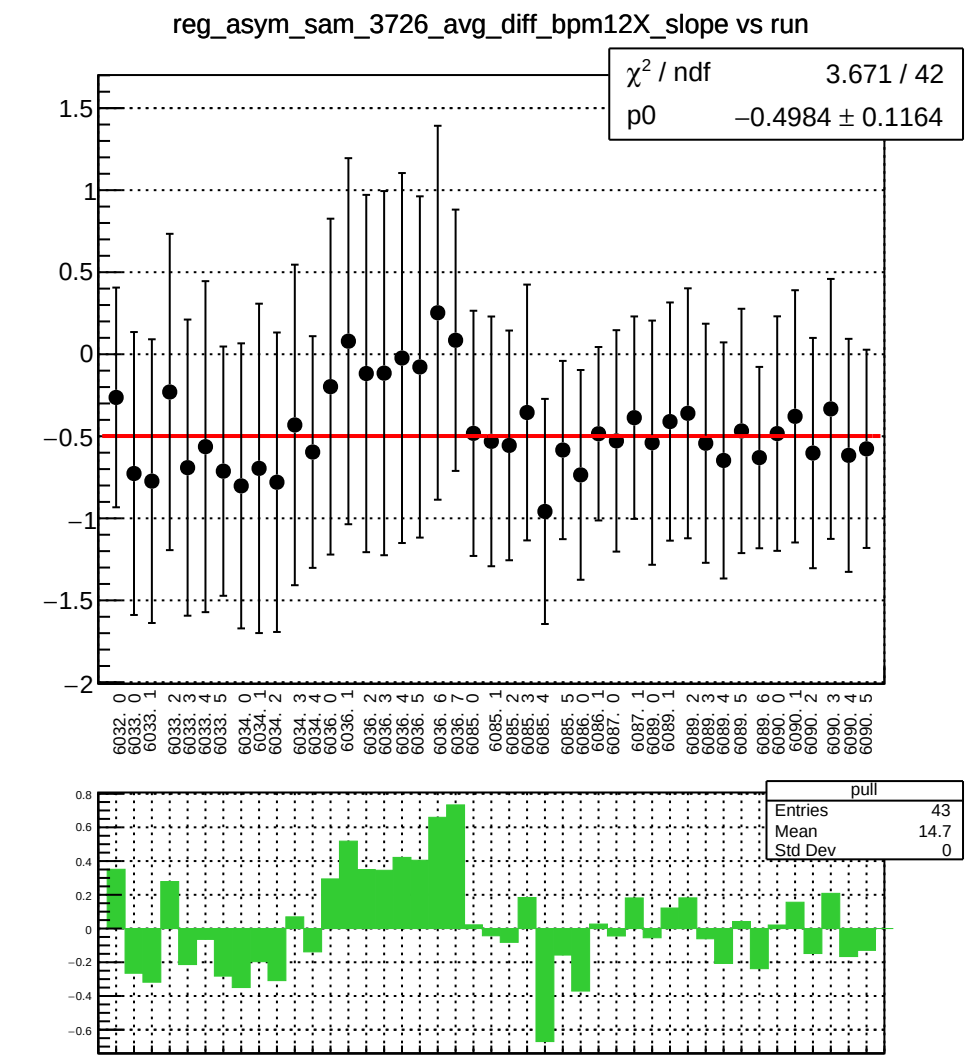

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 6.62 / 42
p0 −0.218 ± 0.06228
pull
Entries 43
Mean 2.493
Std Dev 0
pull1D
Entries 43
Mean 0.03994
Std Dev 0.3903

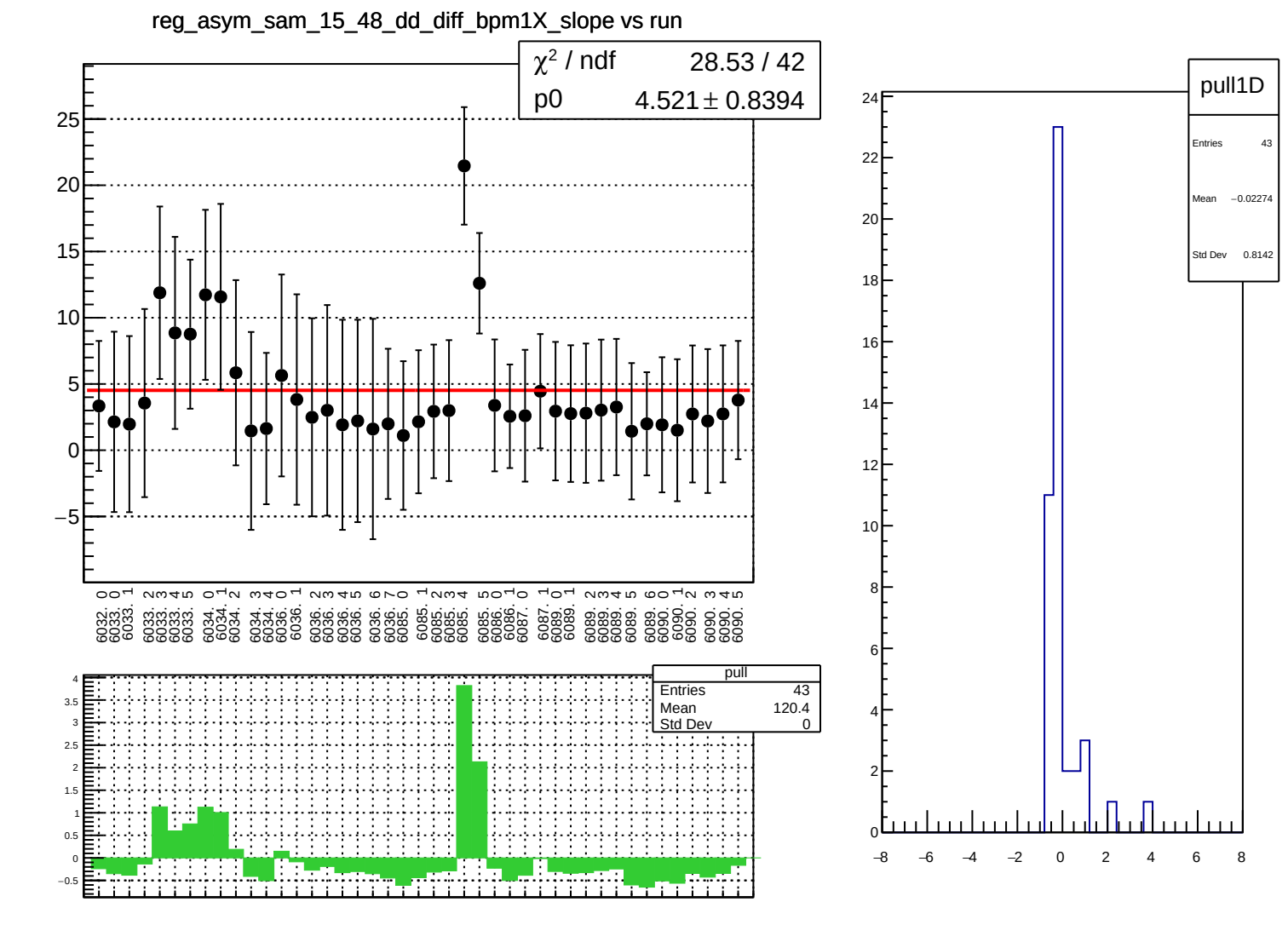

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 9.79 / 42
p0 −7.457 ± 1.257
pull
Entries 43
Mean 1769
Std Dev 0
pull1D
Entries 43
Mean 0.001572
Std Dev 0.4771

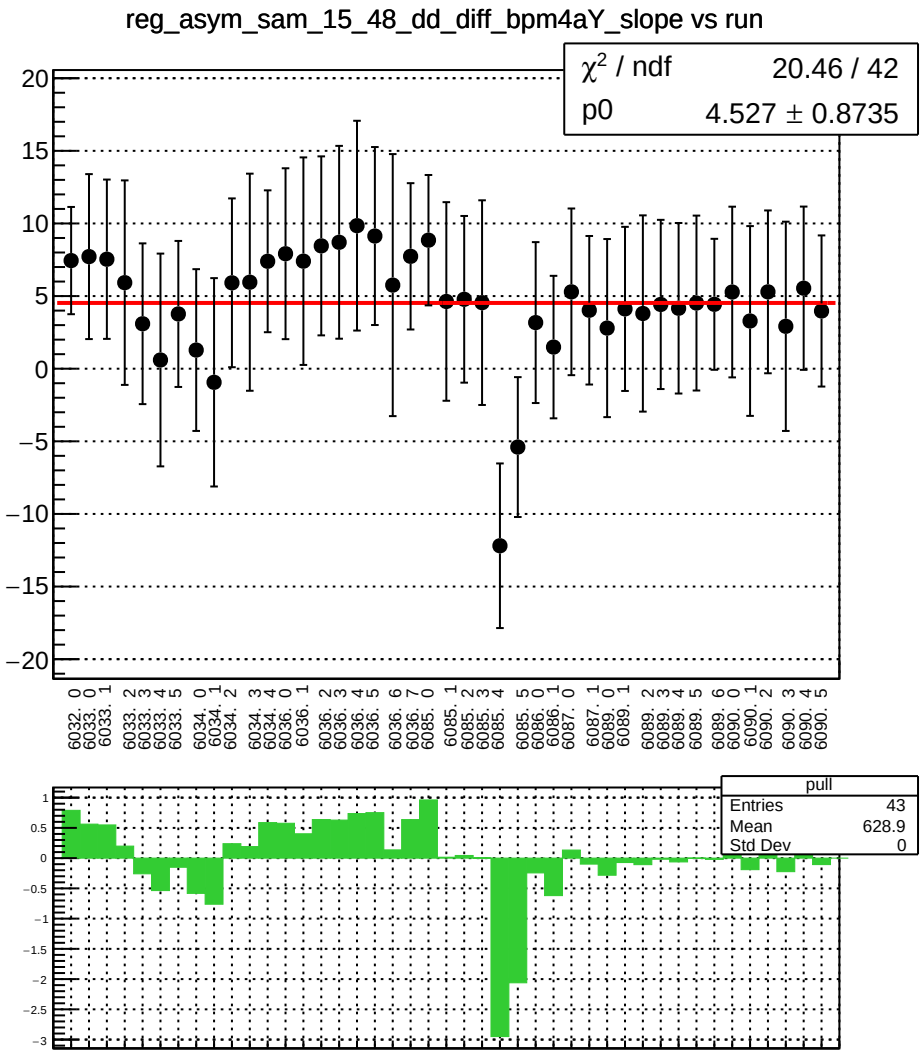

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.79 / 42
p0 13.85 ± 1.319
pull
Entries 43
Mean −26.18
Std Dev 0
pull1D
Entries 43
Mean −0.05434
Std Dev 0.5636

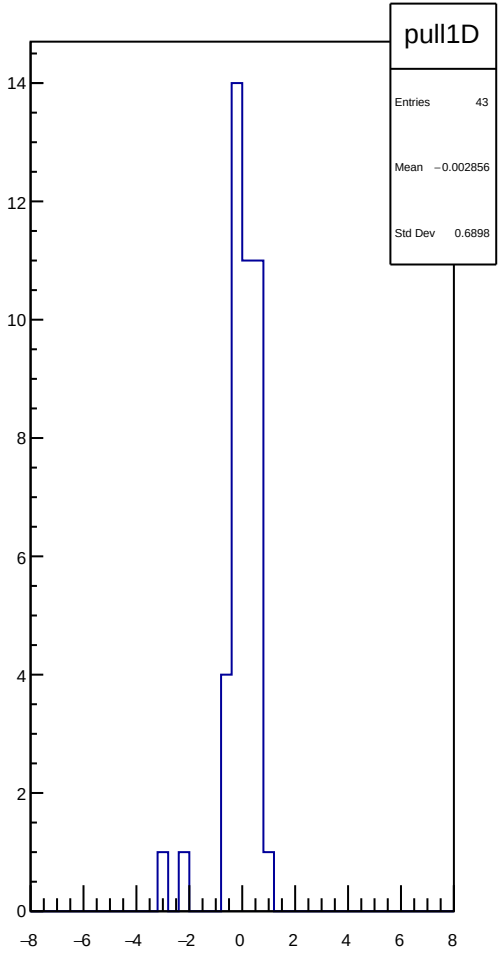

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.43 / 42
p0 −71.62 ± 1.432
pull
Entries 43
Mean 11.97
Std Dev 0
pull1D
Entries 43
Mean −0.05121
Std Dev 0.4899

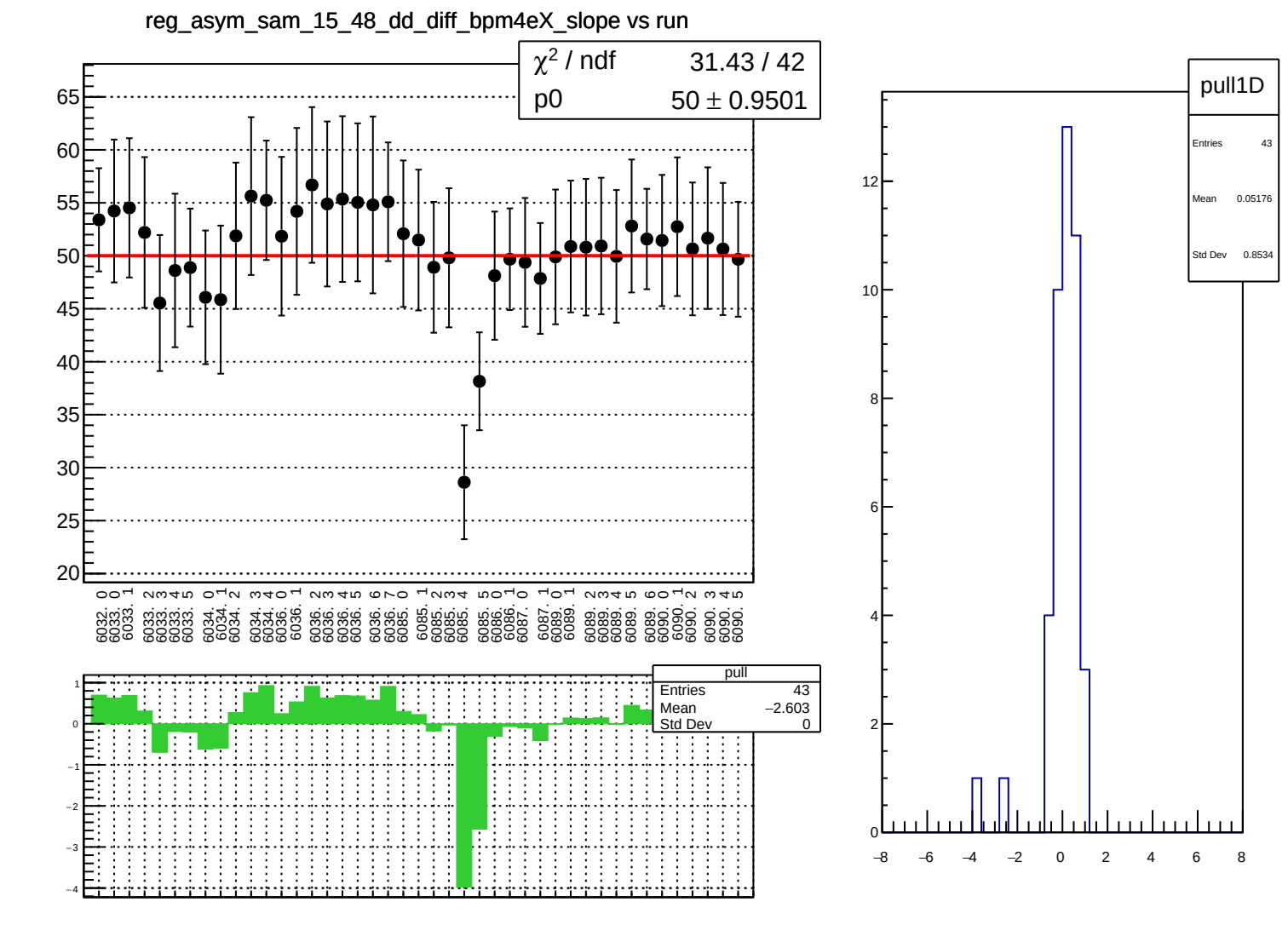

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.02 / 42
p0 −39.22 ± 1.413
0
−10
−20
−30
−40
−50
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6.812
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.07755
Std Dev 0.6948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

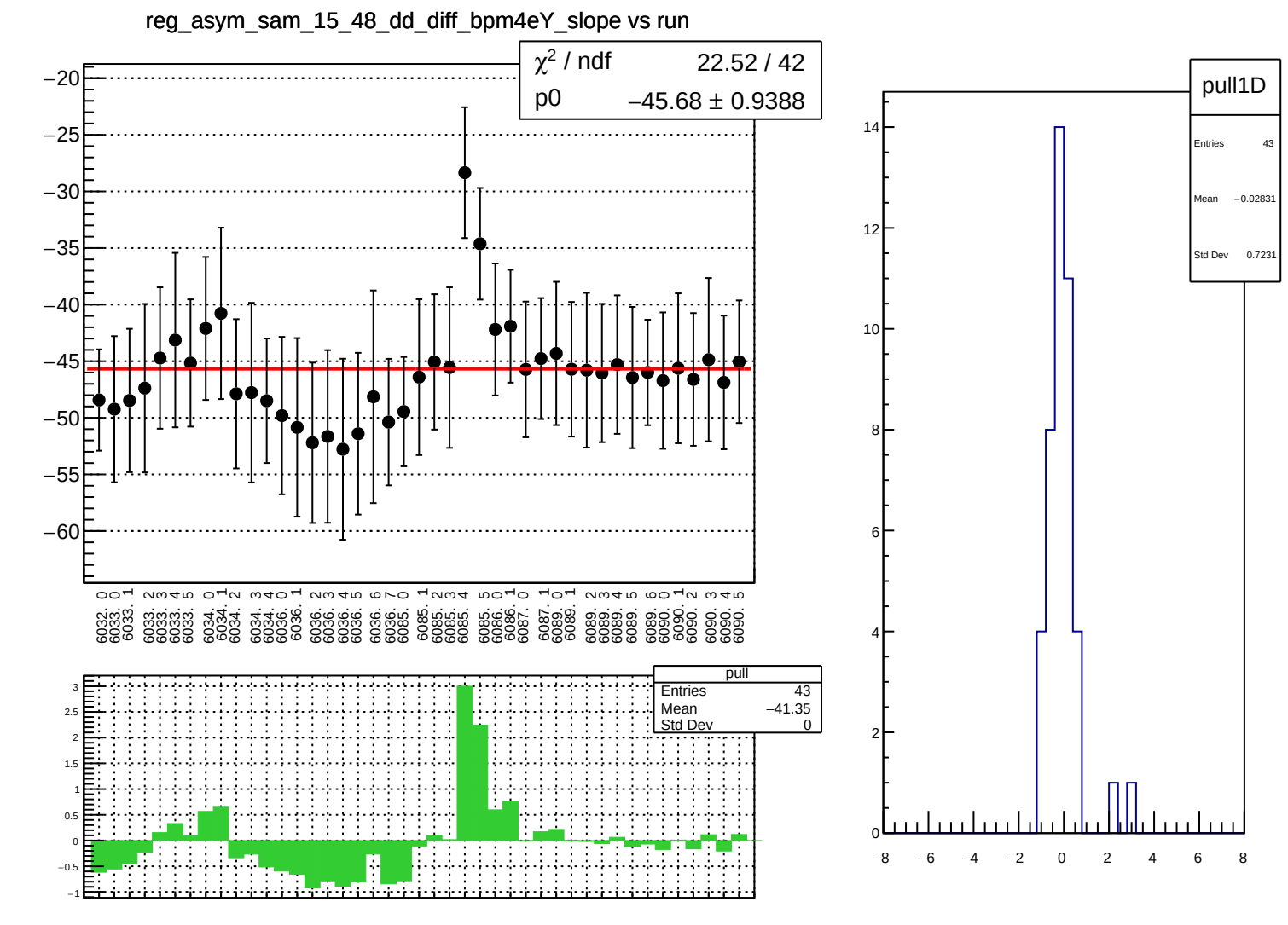

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.671 / 42
p0 −0.4984 ± 0.1164
pull
Entries 43
Mean 14.7
Std Dev 0
pull1D
Entries 43
Mean 0.02471
Std Dev 0.2911


reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 28.53 / 42
p0 4.521 ± 0.8394
pull
Entries 43
Mean 120.4
Std Dev 0
pull1D
Entries 43
Mean −0.02274
Std Dev 0.8142


reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.46 / 42
p0 4.527 ± 0.8735
pull
Entries 43
Mean 628.9
Std Dev 0


pull1D
Entries 43
Mean −0.002856
Std Dev 0.6898


reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.43 / 42
p0 50 ± 0.9501
pull
Entries 43
Mean −2.603
Std Dev 0
pull1D
Entries 43
Mean 0.05176
Std Dev 0.8534


reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.52 / 42
p0 −45.68 ± 0.9388
−20
−25
−30
−35
−40
−45
−50
−55
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
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6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −41.35
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02831
Std Dev 0.7231
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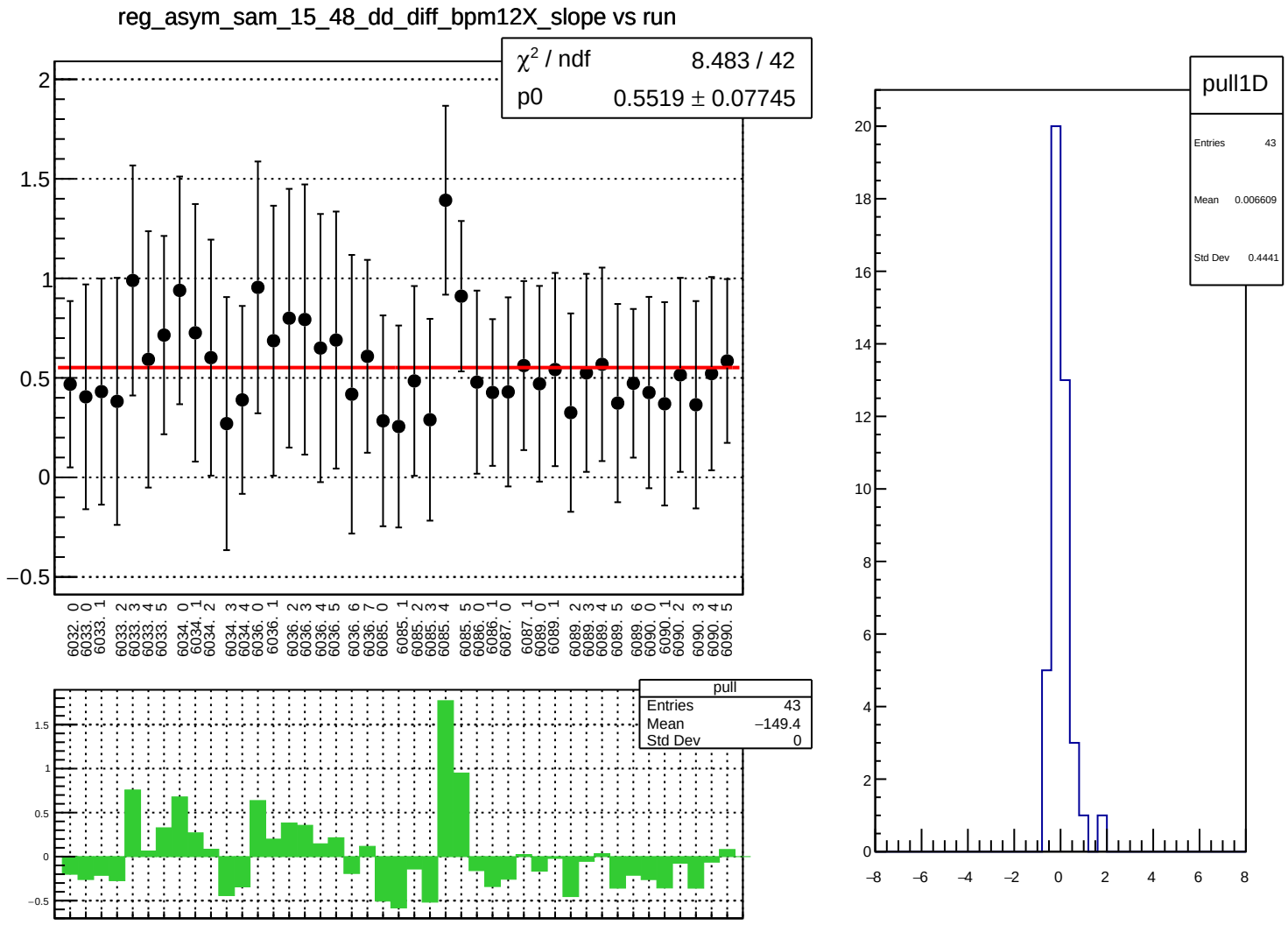
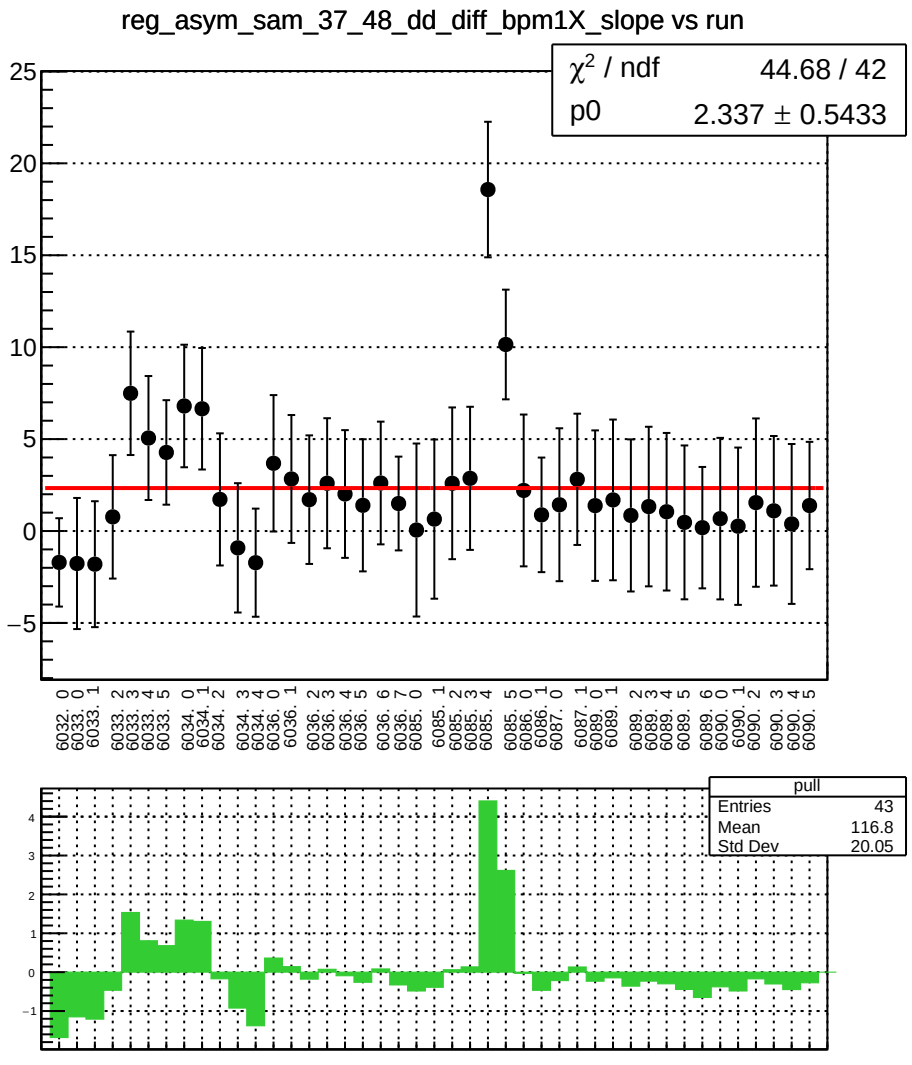
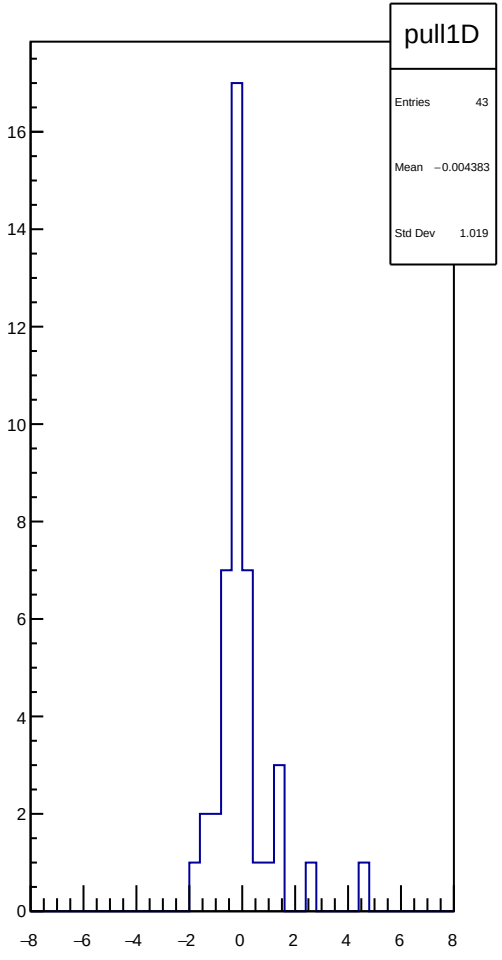
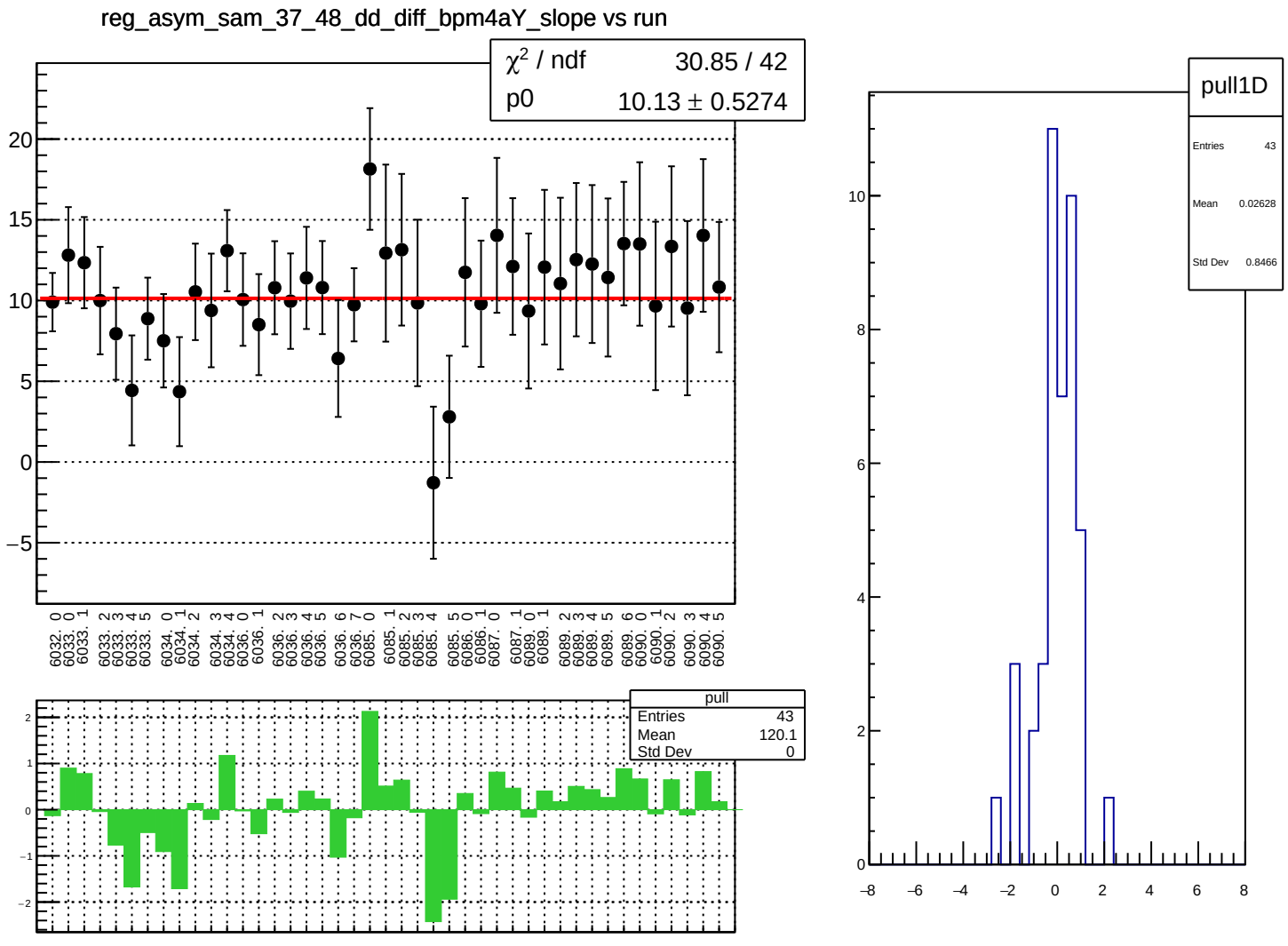
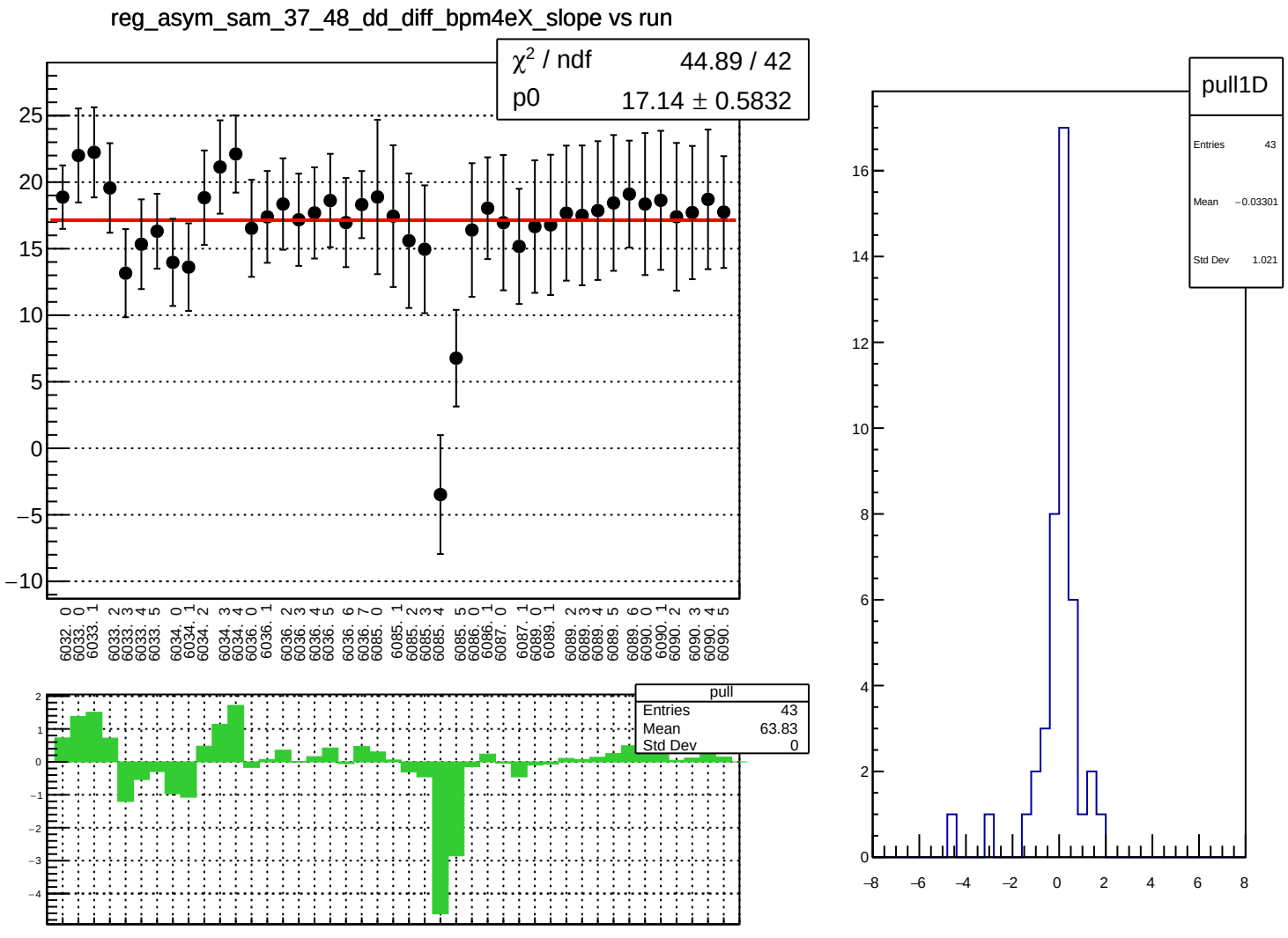
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

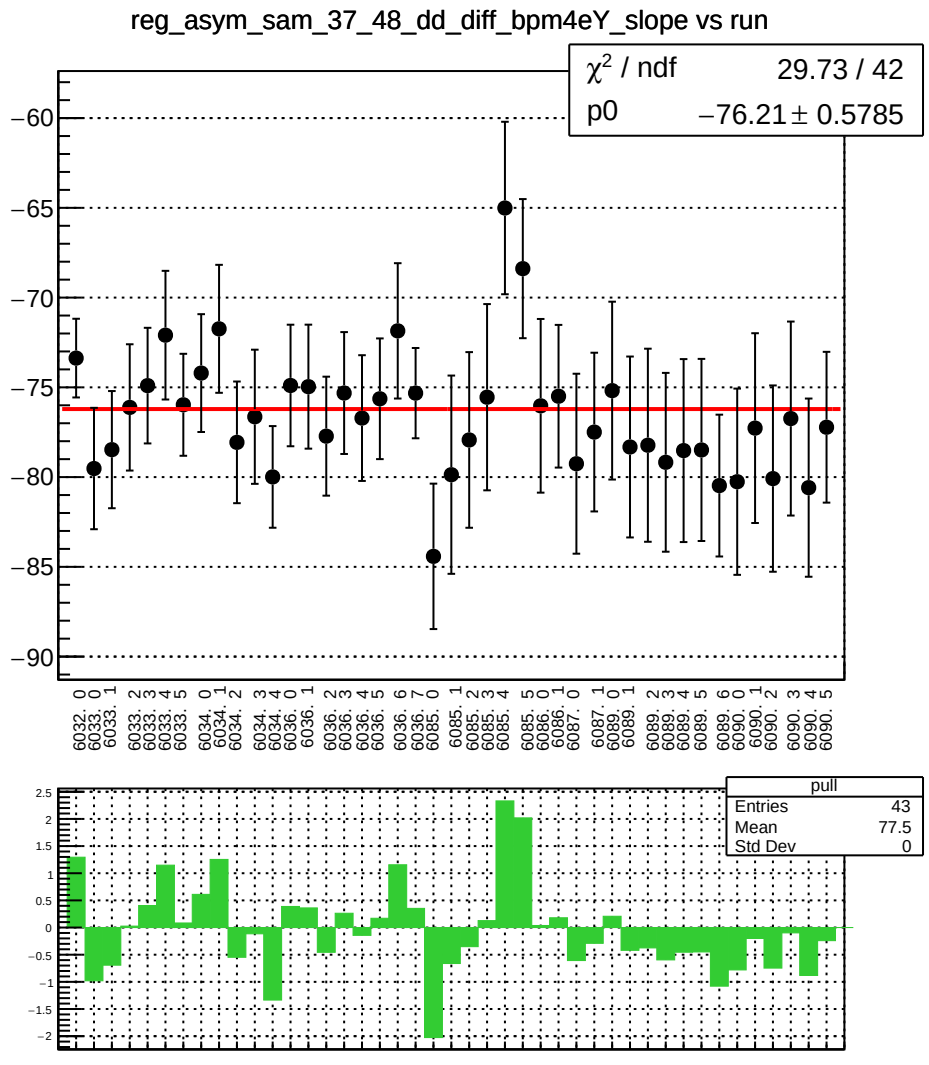

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.483 / 42
p0 0.5519 ± 0.07745
pull
Entries 43
Mean −149.4
Std Dev 0
pull1D
Entries 43
Mean 0.006609
Std Dev 0.4441

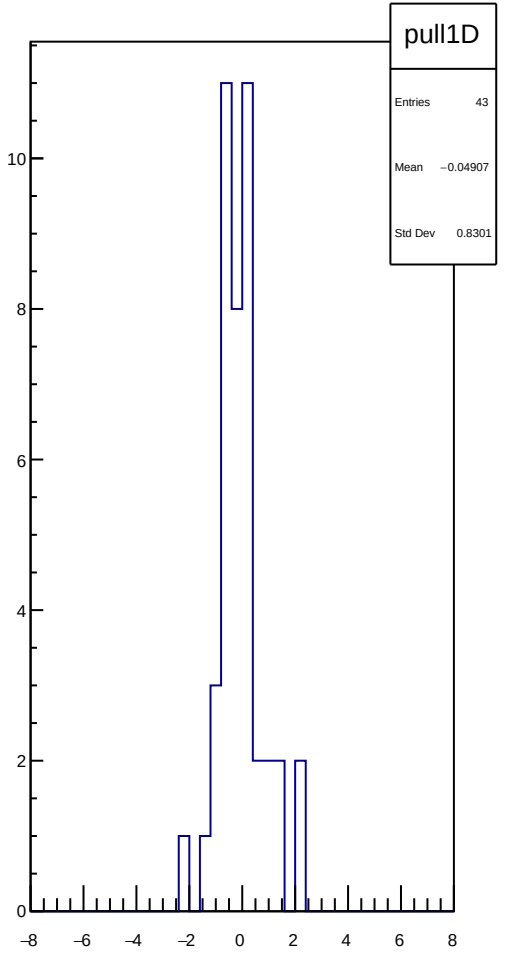

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 44.68 / 42
p0 2.337 ± 0.5433
pull
Entries 43
Mean 116.8
Std Dev 20.05

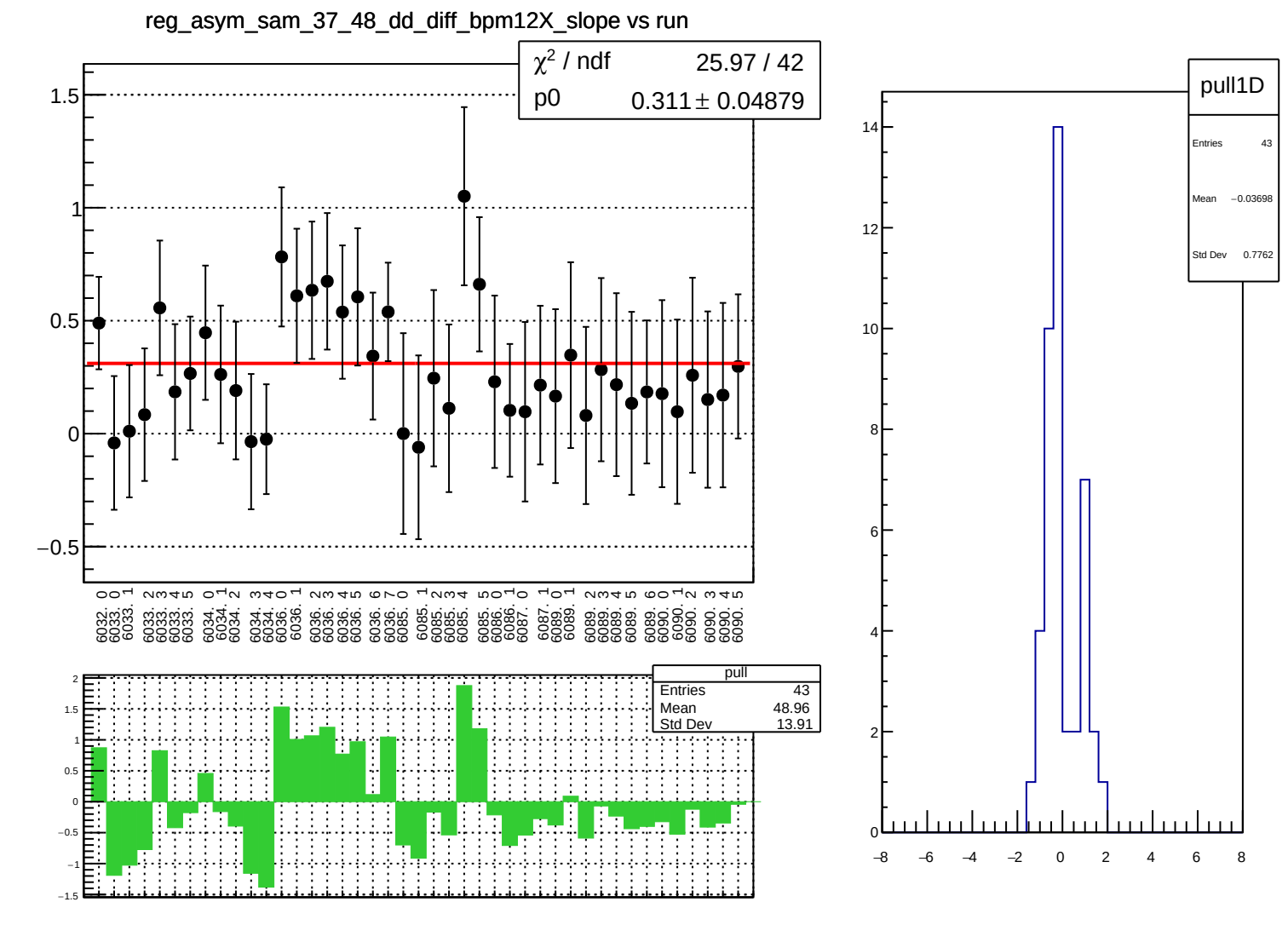

pull1D
Entries 43
Mean −0.004383
Std Dev 1.019

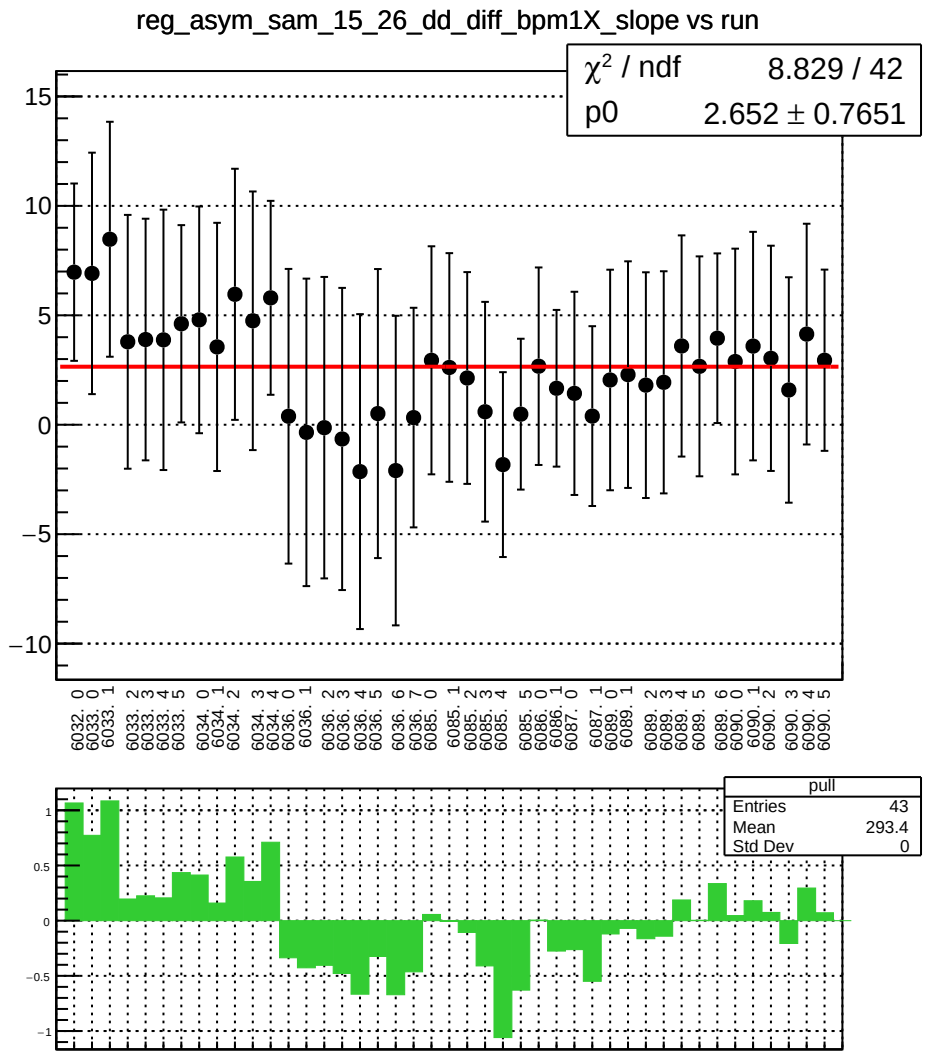

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.85 / 42
p0 10.13 ± 0.5274
pull
Entries 43
Mean 120.1
Std Dev 0
pull1D
Entries 43
Mean 0.02628
Std Dev 0.8466

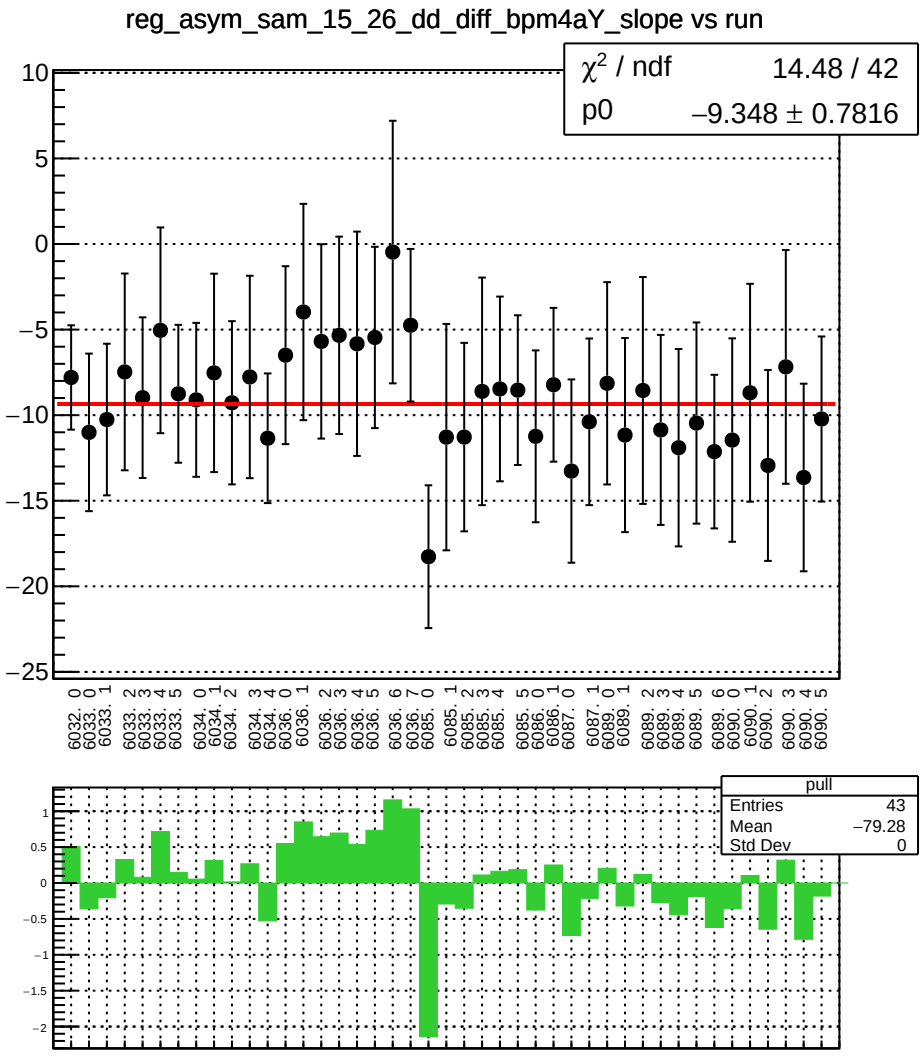

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.89 / 42
p0 17.14 ± 0.5832
pull
Entries 43
Mean 63.83
Std Dev 0
pull1D
Entries 43
Mean −0.03301
Std Dev 1.021

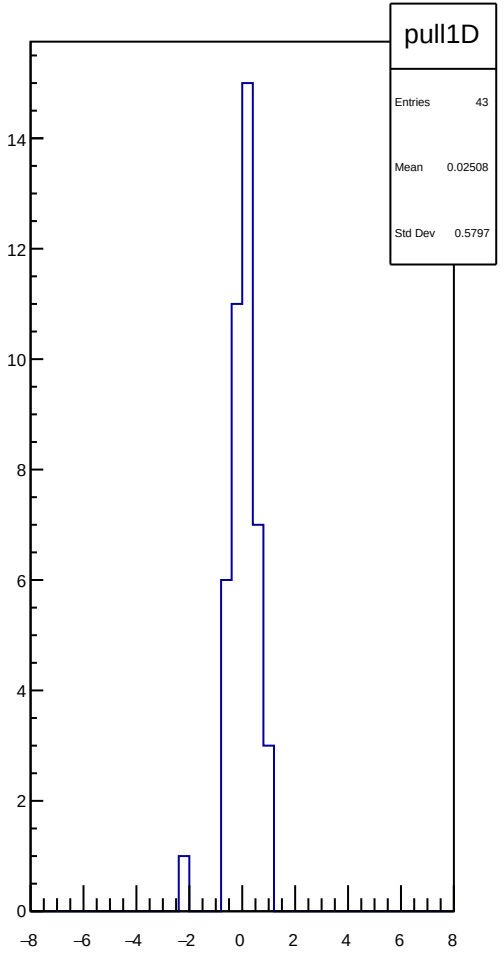

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.73 / 42
p0 −76.21 ± 0.5785
pull
Entries 43
Mean 77.5
Std Dev 0

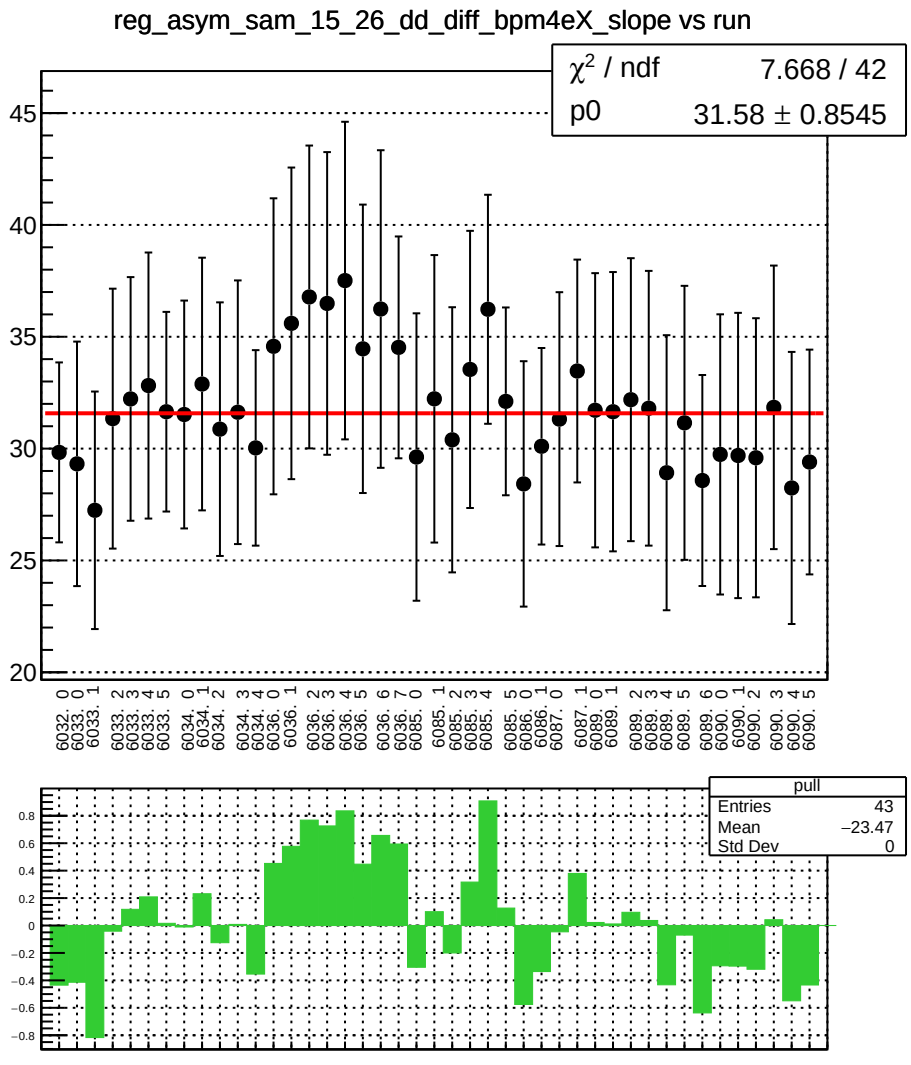

pull1D
Entries 43
Mean −0.04907
Std Dev 0.8301

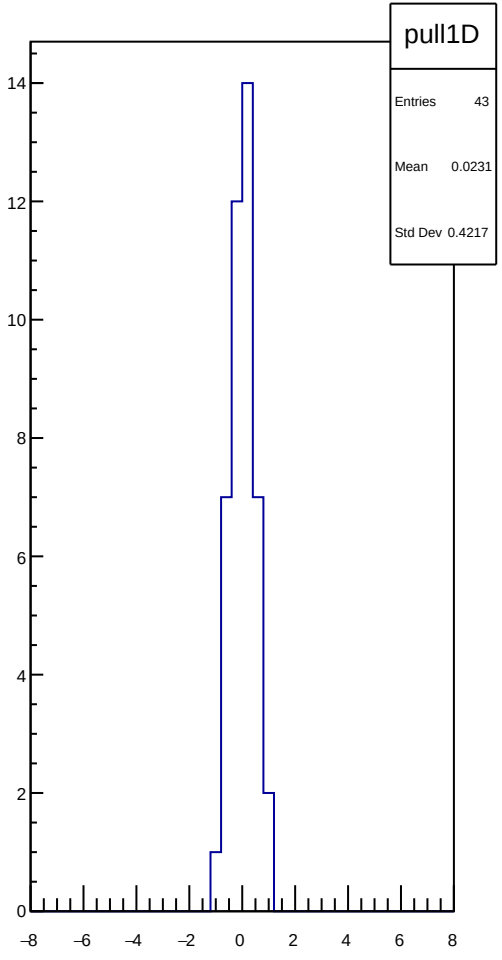

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 25.97 / 42
p0 0.311 ± 0.04879
1.5
1
0.5
0
−0.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 48.96
Std Dev 13.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.03698
Std Dev 0.7762
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

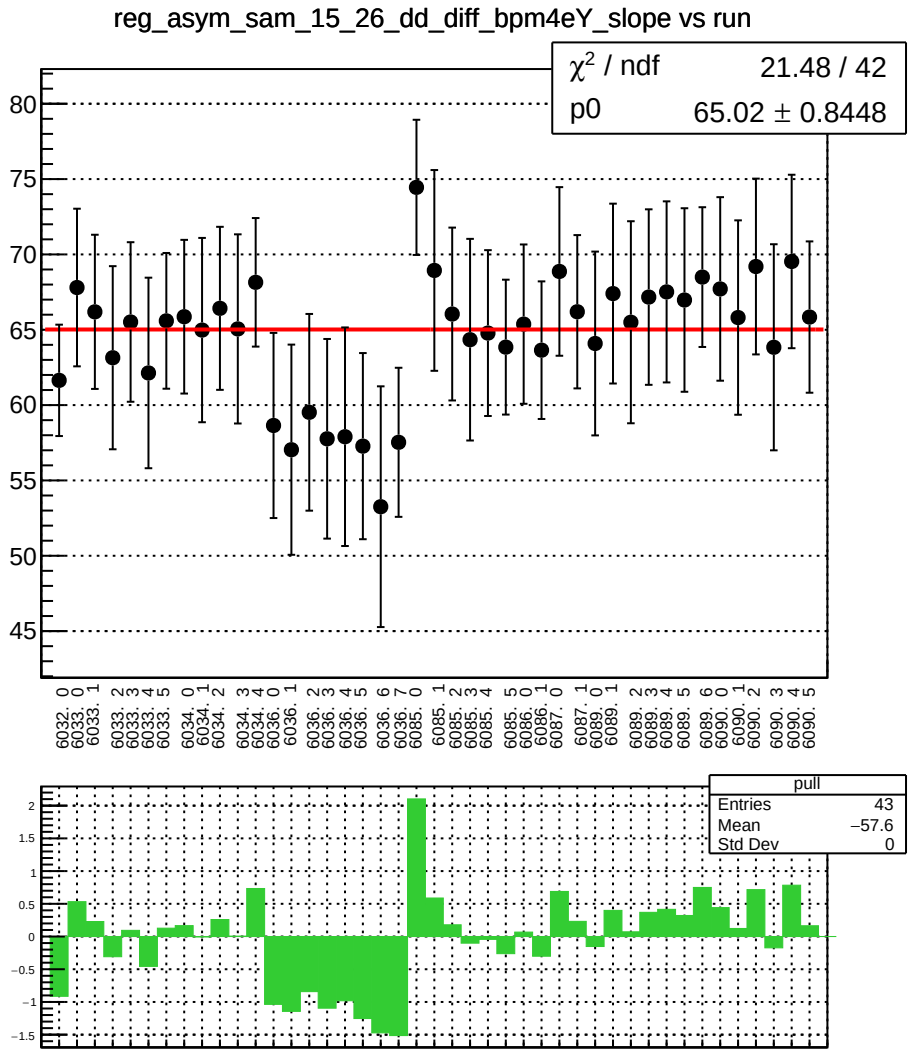

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 8.829 / 42
p0 2.652 ± 0.7651
pull
Entries 43
Mean 293.4
Std Dev 0
pull1D
Entries 43
Mean −0.007302
Std Dev 0.4531

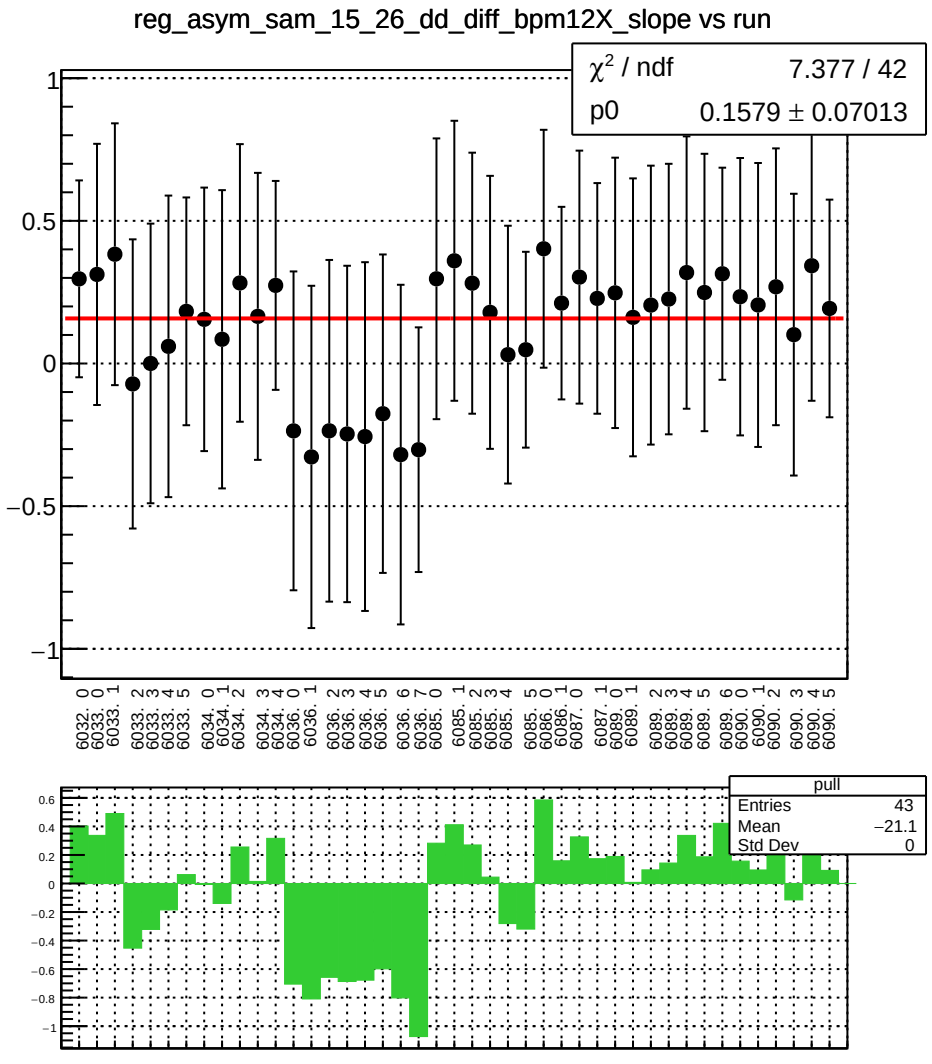

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.48 / 42
p0 −9.348 ± 0.7816
pull
Entries 43
Mean −79.28
Std Dev 0

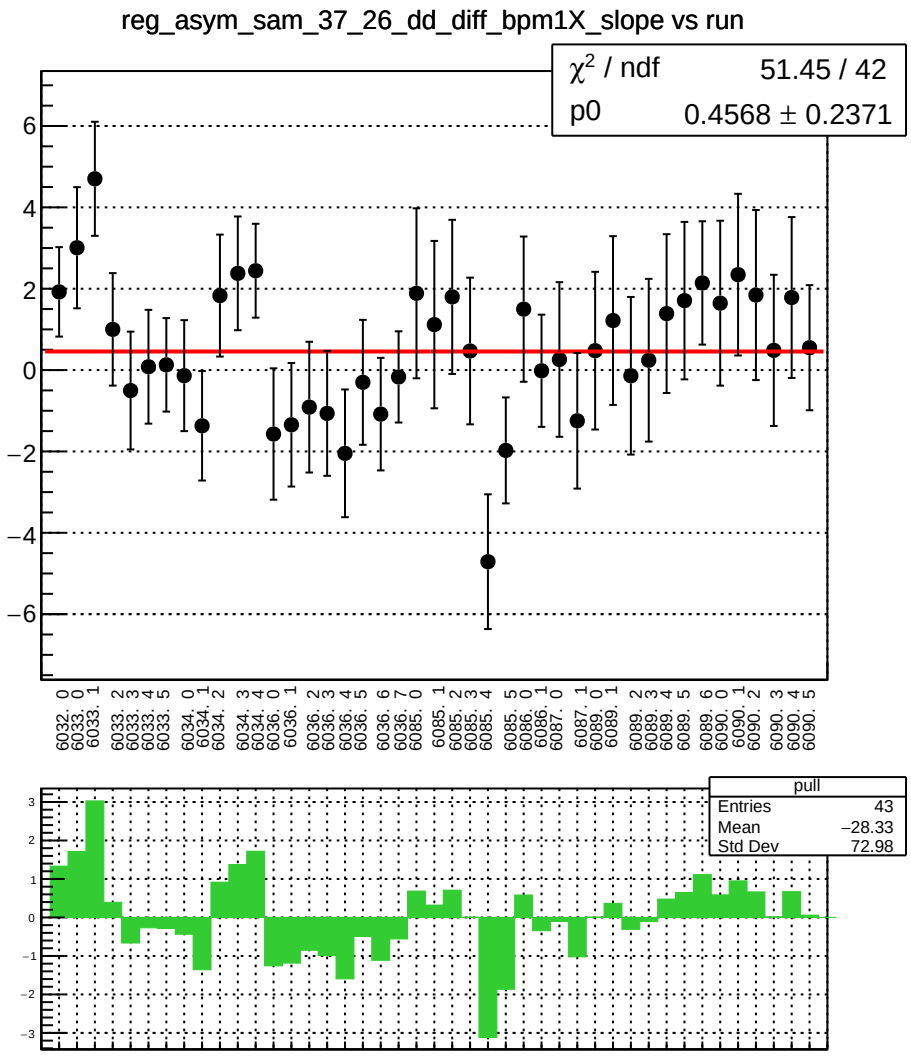

pull1D
Entries 43
Mean 0.02508
Std Dev 0.5797

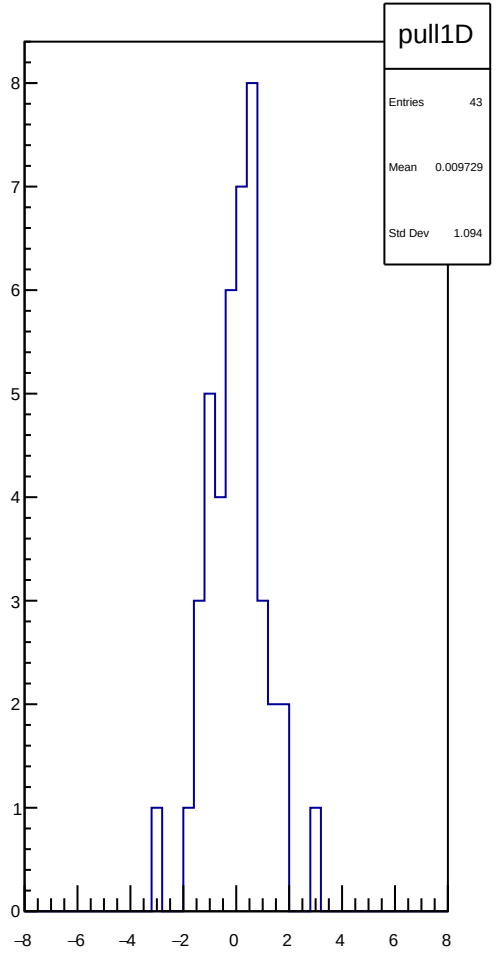

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.668 / 42
p0 31.58 ± 0.8545
pull
Entries 43
Mean −23.47
Std Dev 0

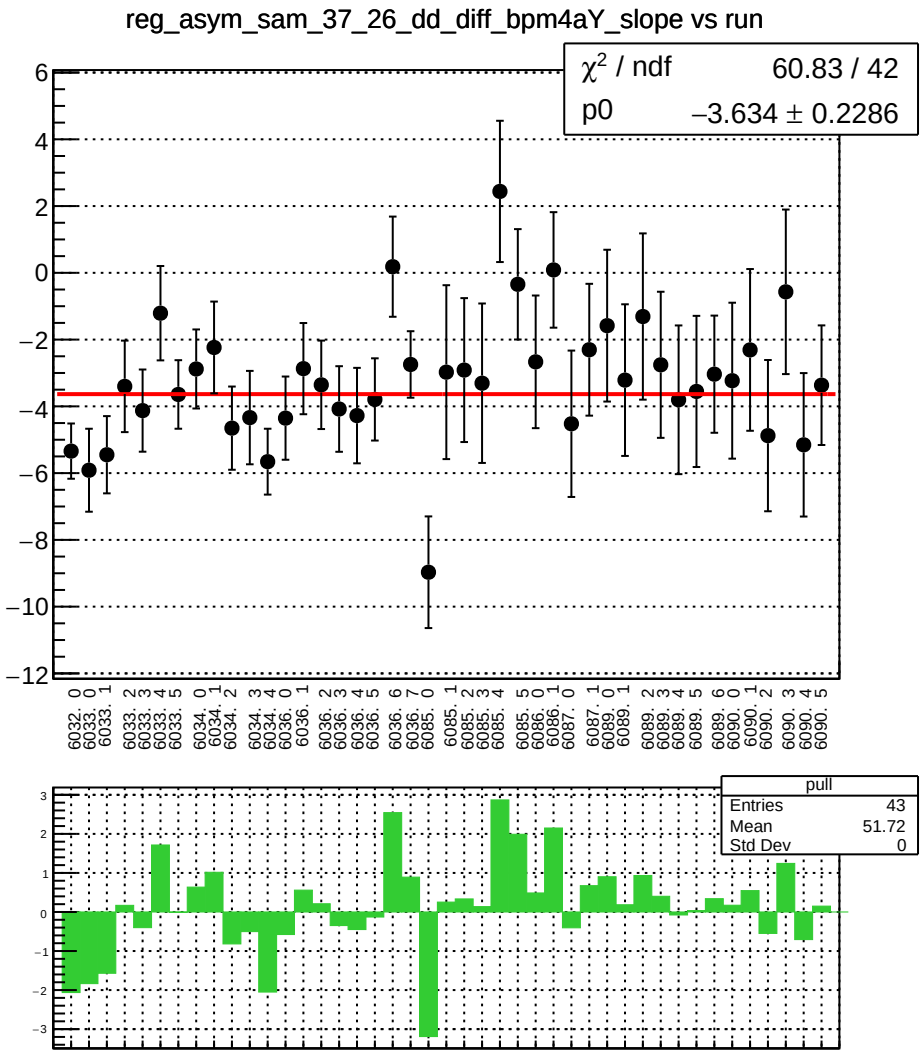

pull1D
Entries 43
Mean 0.0231
Std Dev 0.4217

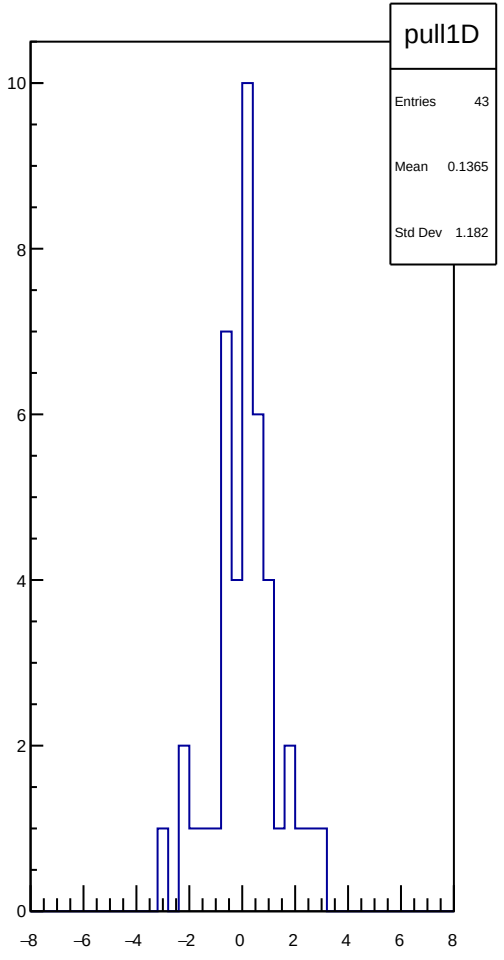

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.48 / 42
p0 65.02 ± 0.8448
pull
Entries 43
Mean −57.6
Std Dev 0
pull1D
Entries 43
Mean −0.03465
Std Dev 0.7059

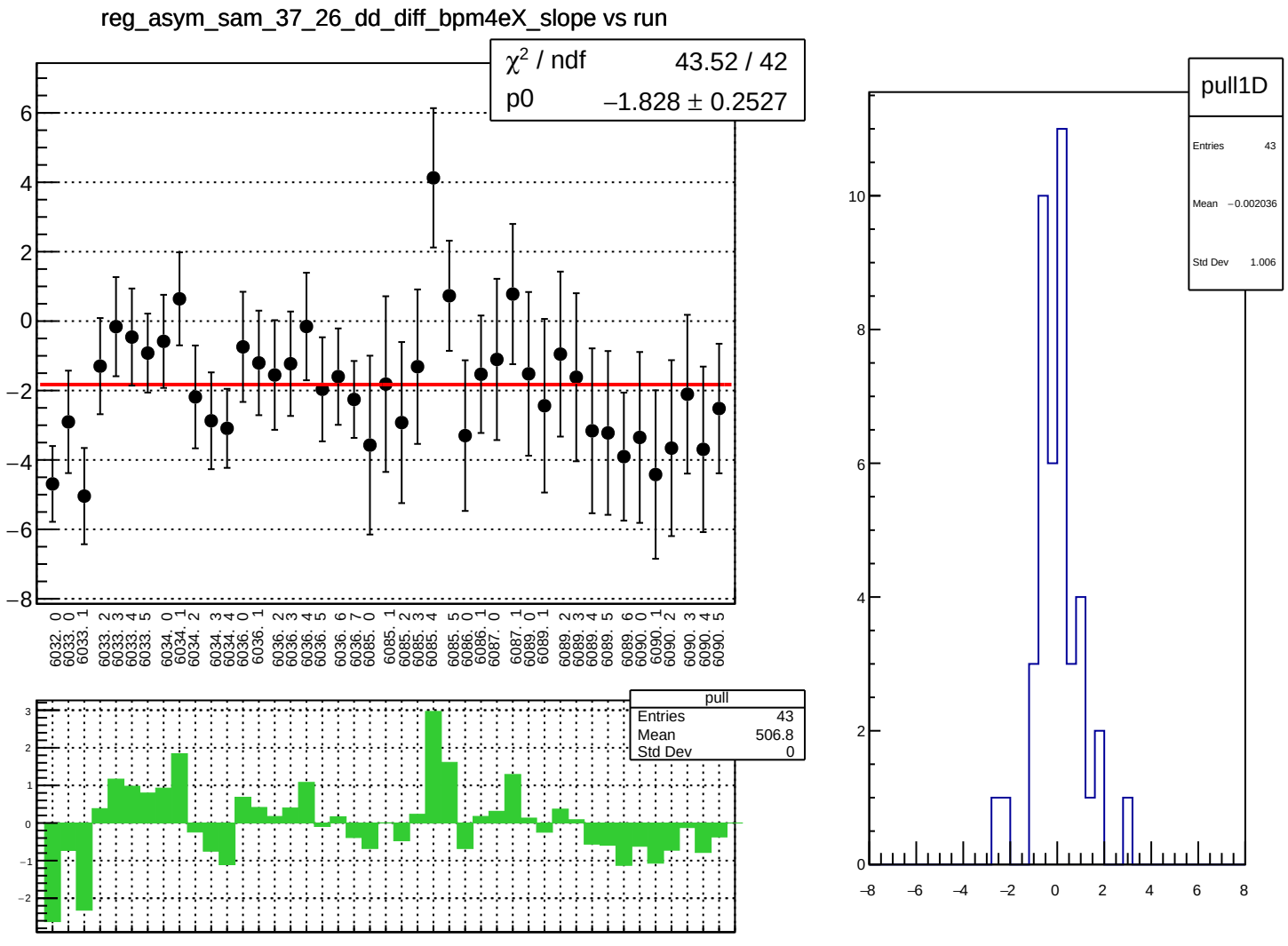

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.377 / 42
p0 0.1579 ± 0.07013
pull
Entries 43
Mean −21.1
Std Dev 0
pull1D
Entries 43
Mean −0.03151
Std Dev 0.413

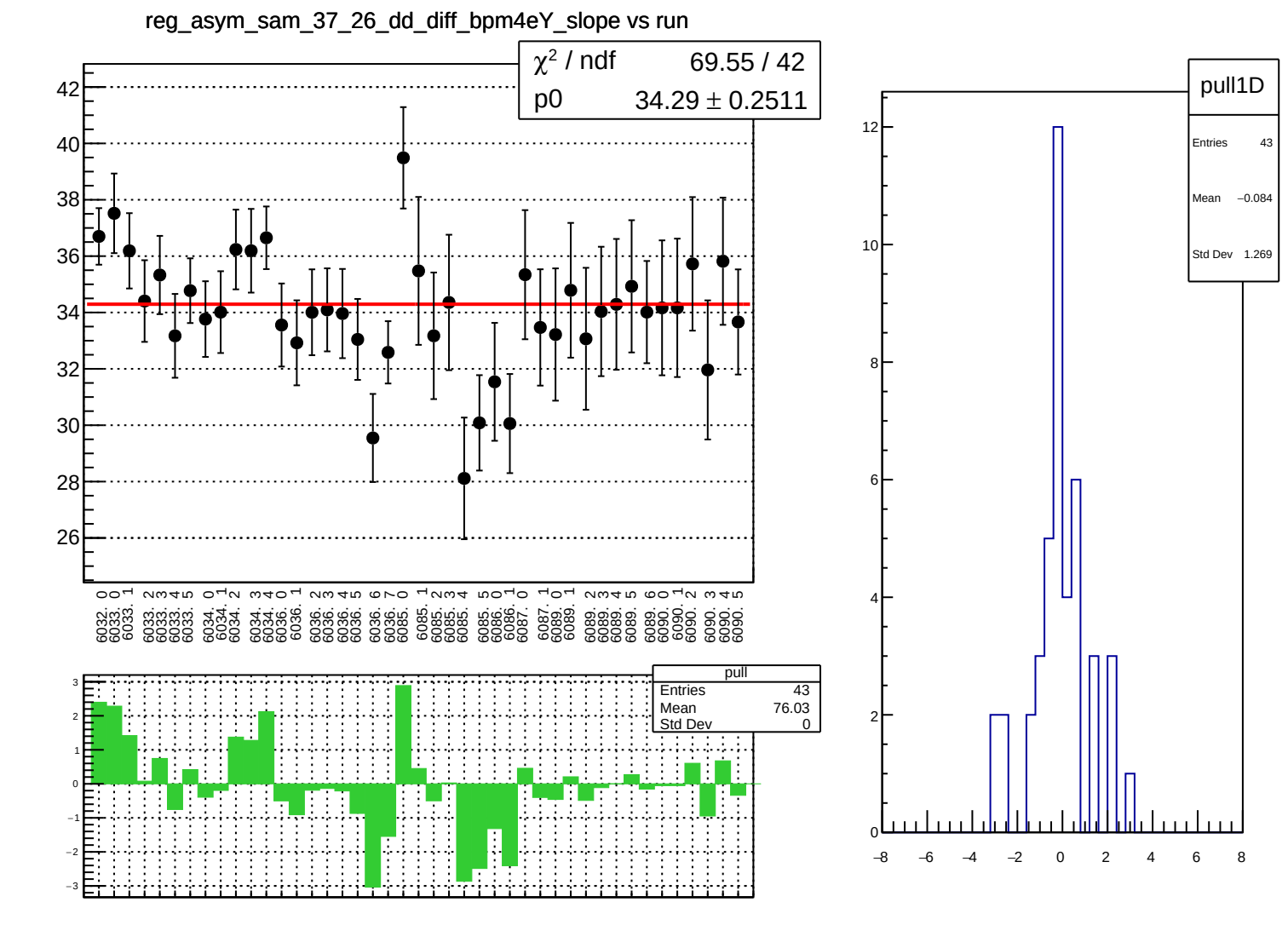

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 51.45 / 42
p0 0.4568 ± 0.2371
pull
Entries 43
Mean −28.33
Std Dev 72.98

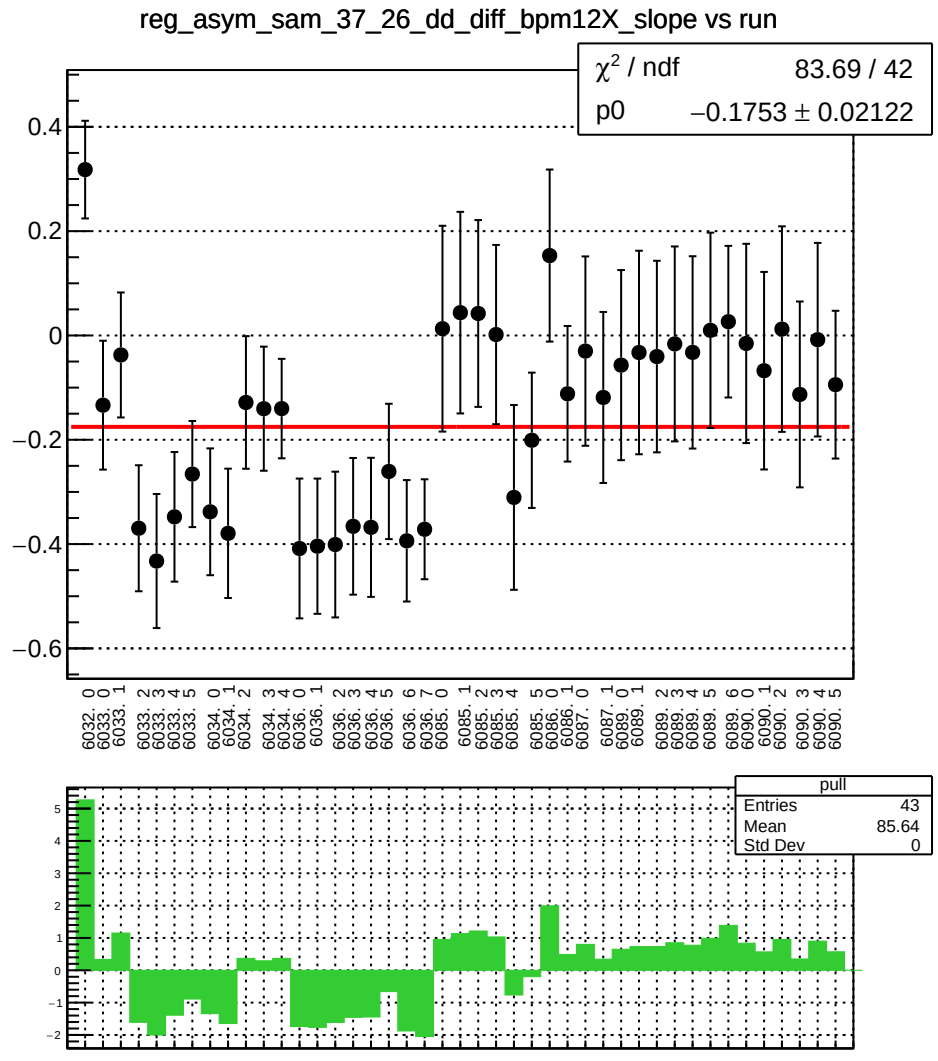

pull1D
Entries 43
Mean 0.009729
Std Dev 1.094

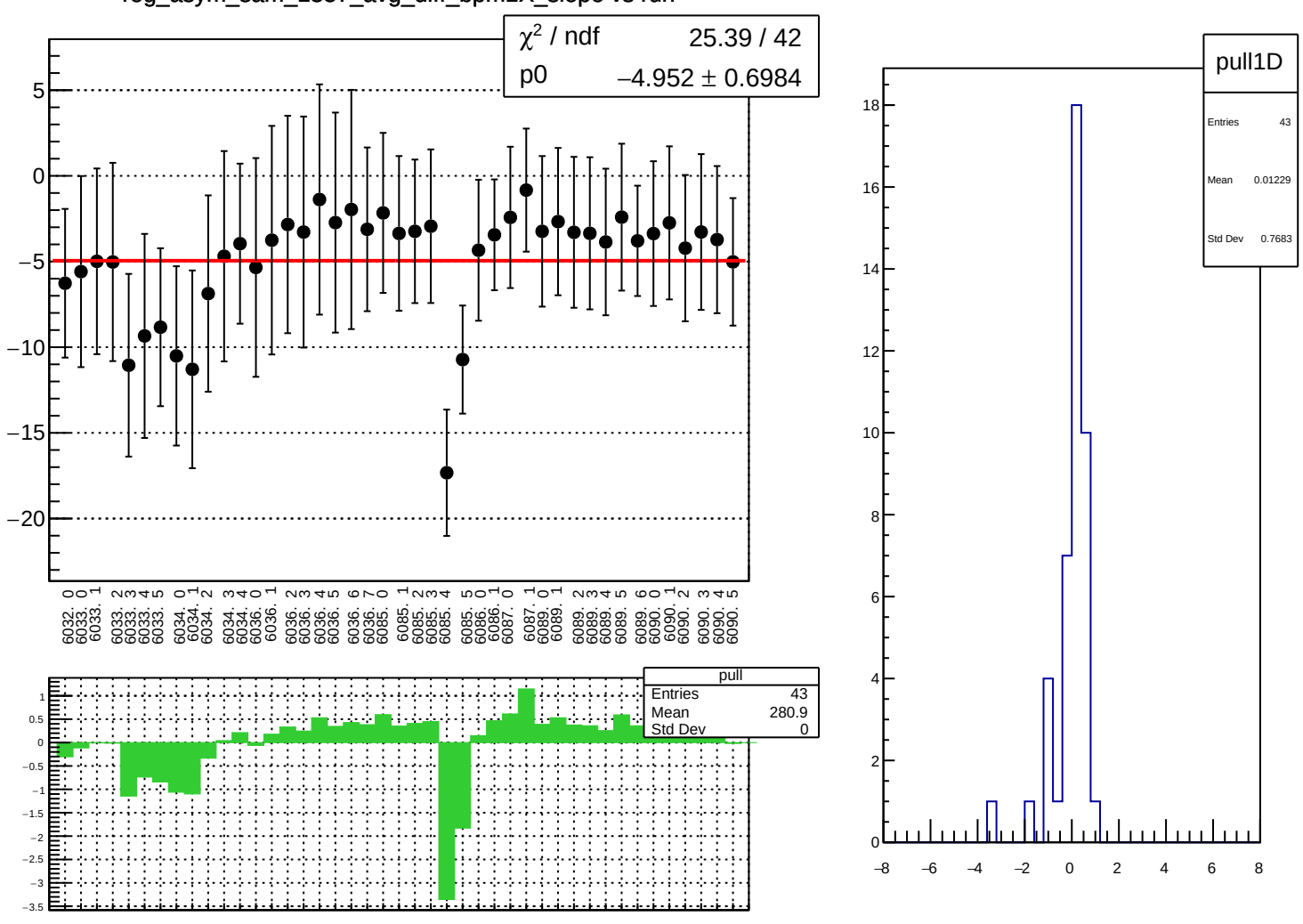

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.83 / 42
p0 −3.634 ± 0.2286
pull
Entries 43
Mean 51.72
Std Dev 0

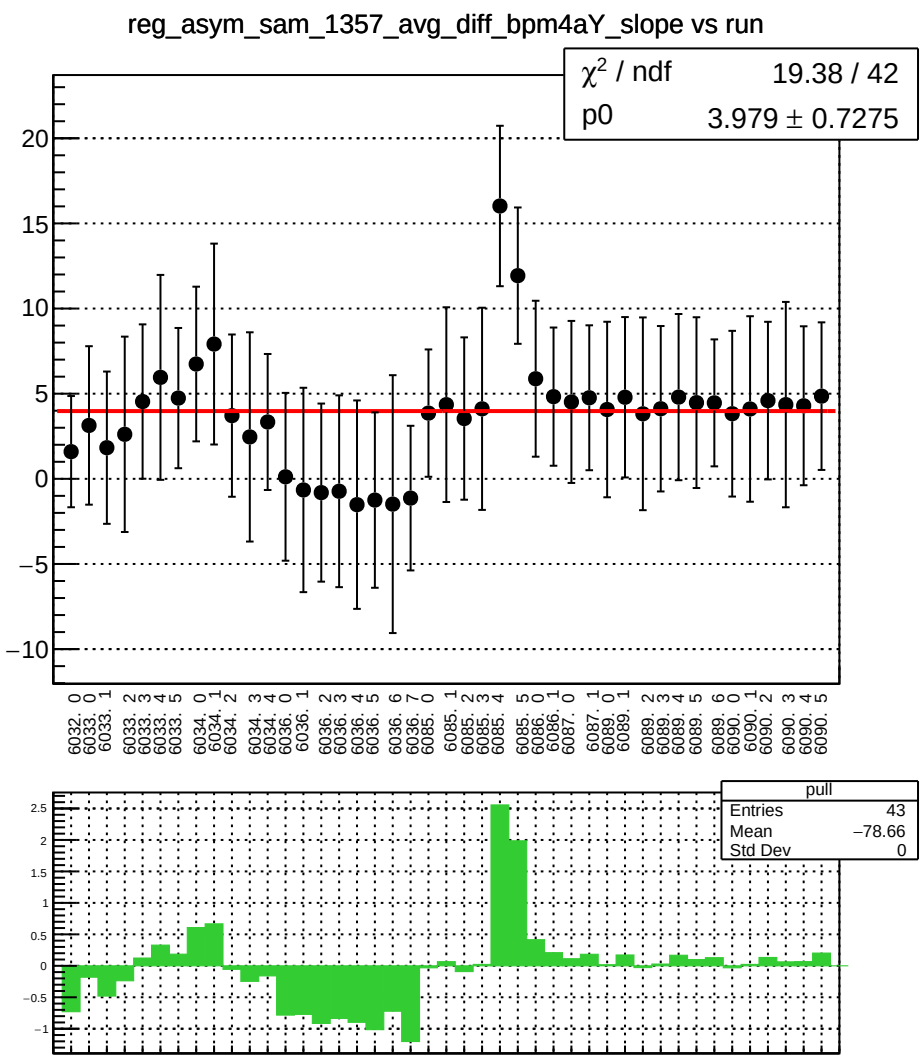

pull1D
Entries 43
Mean 0.1365
Std Dev 1.182

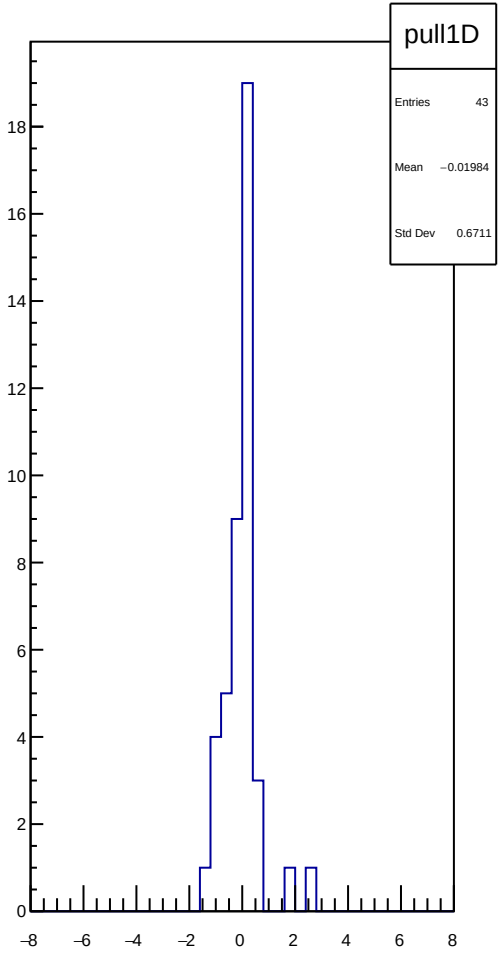

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.52 / 42
p0 −1.828 ± 0.2527
pull
Entries 43
Mean 506.8
Std Dev 0
pull1D
Entries 43
Mean −0.002036
Std Dev 1.006

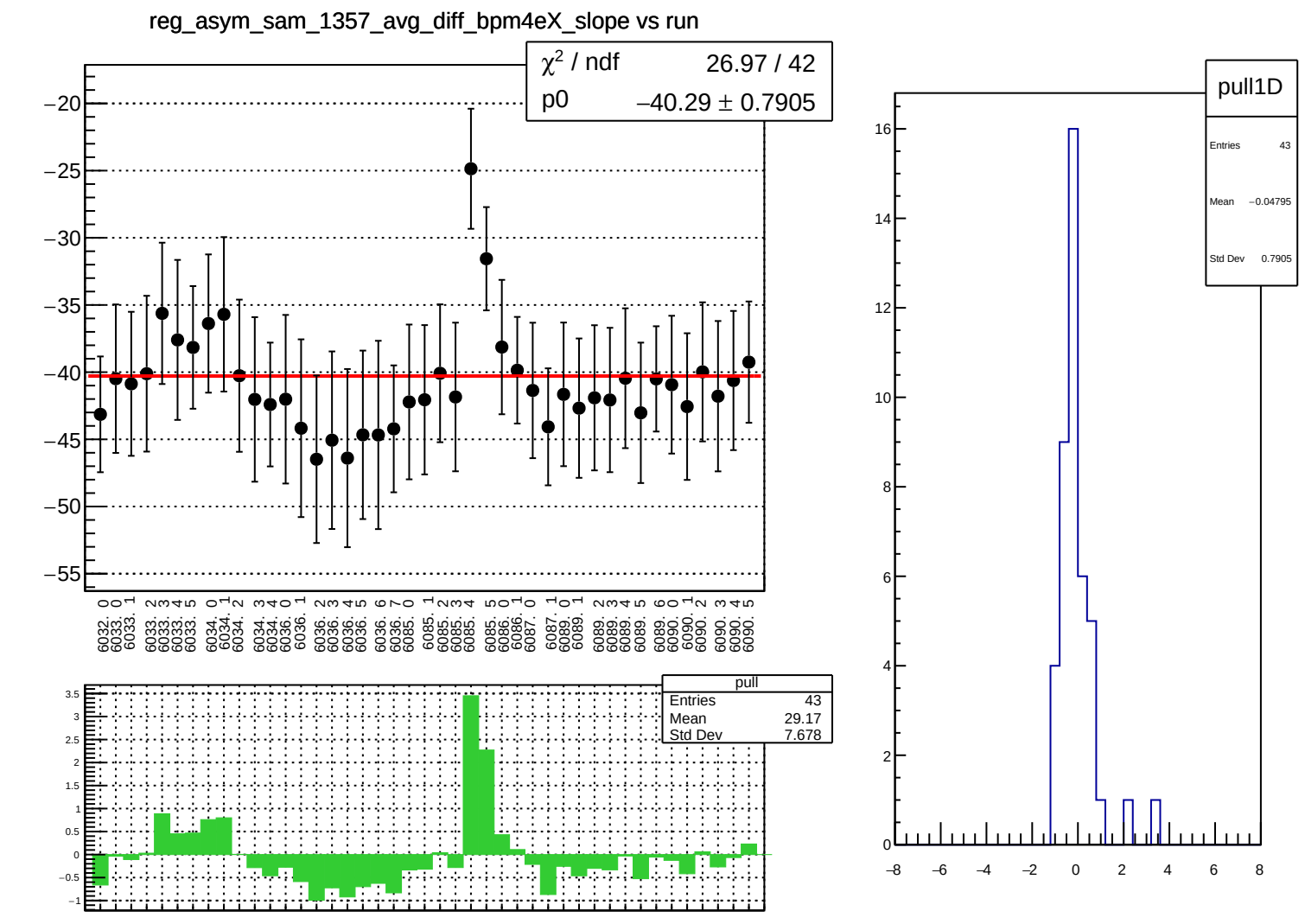

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.55 / 42
p0 34.29 ± 0.2511
pull
Entries 43
Mean 76.03
Std Dev 0
pull1D
Entries 43
Mean −0.084
Std Dev 1.269

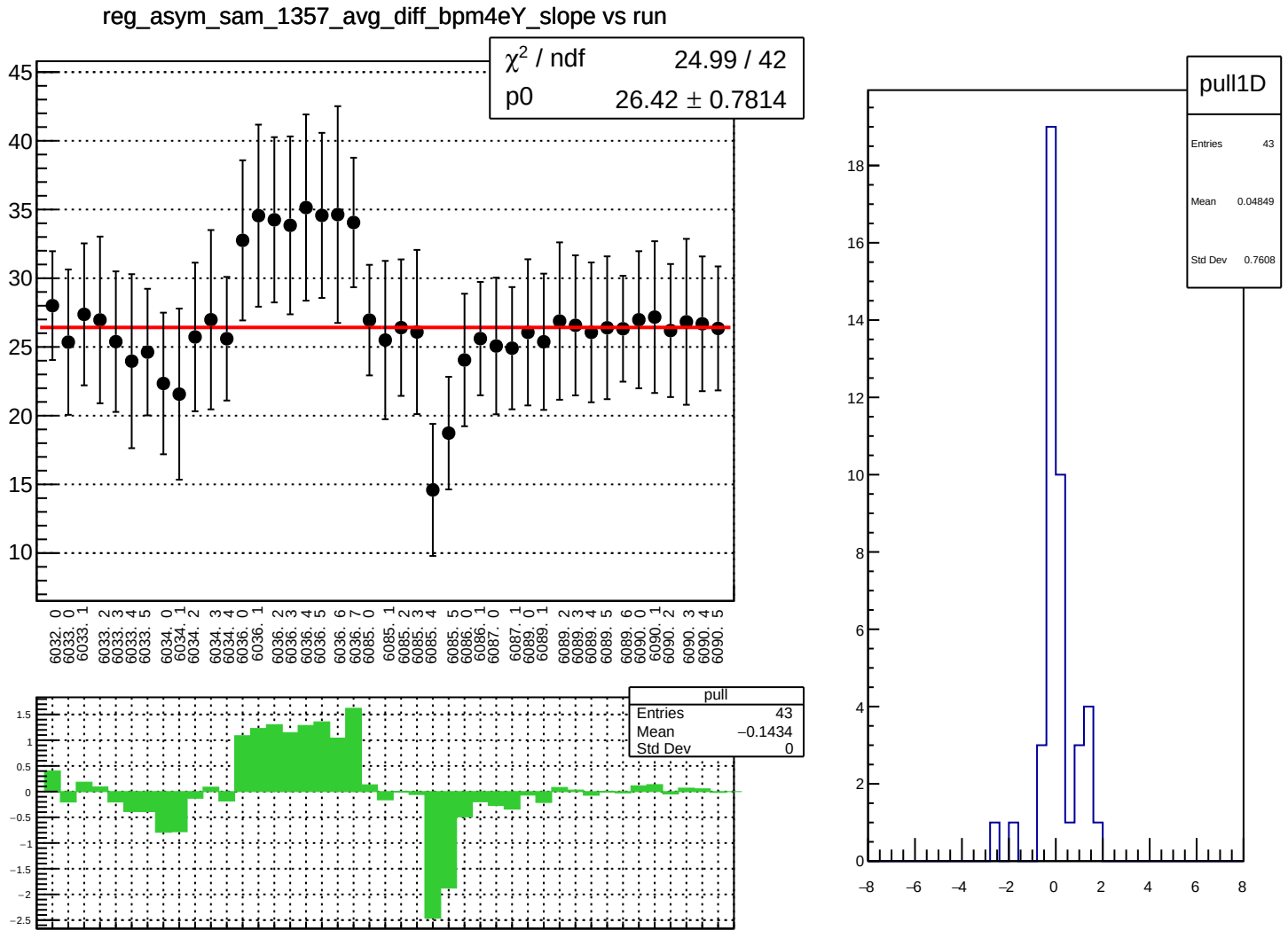

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 83.69 / 42
p0 −0.1753 ± 0.02122
pull
Entries 43
Mean 85.64
Std Dev 0
pull1D
Entries 43
Mean 0.08375
Std Dev 1.393

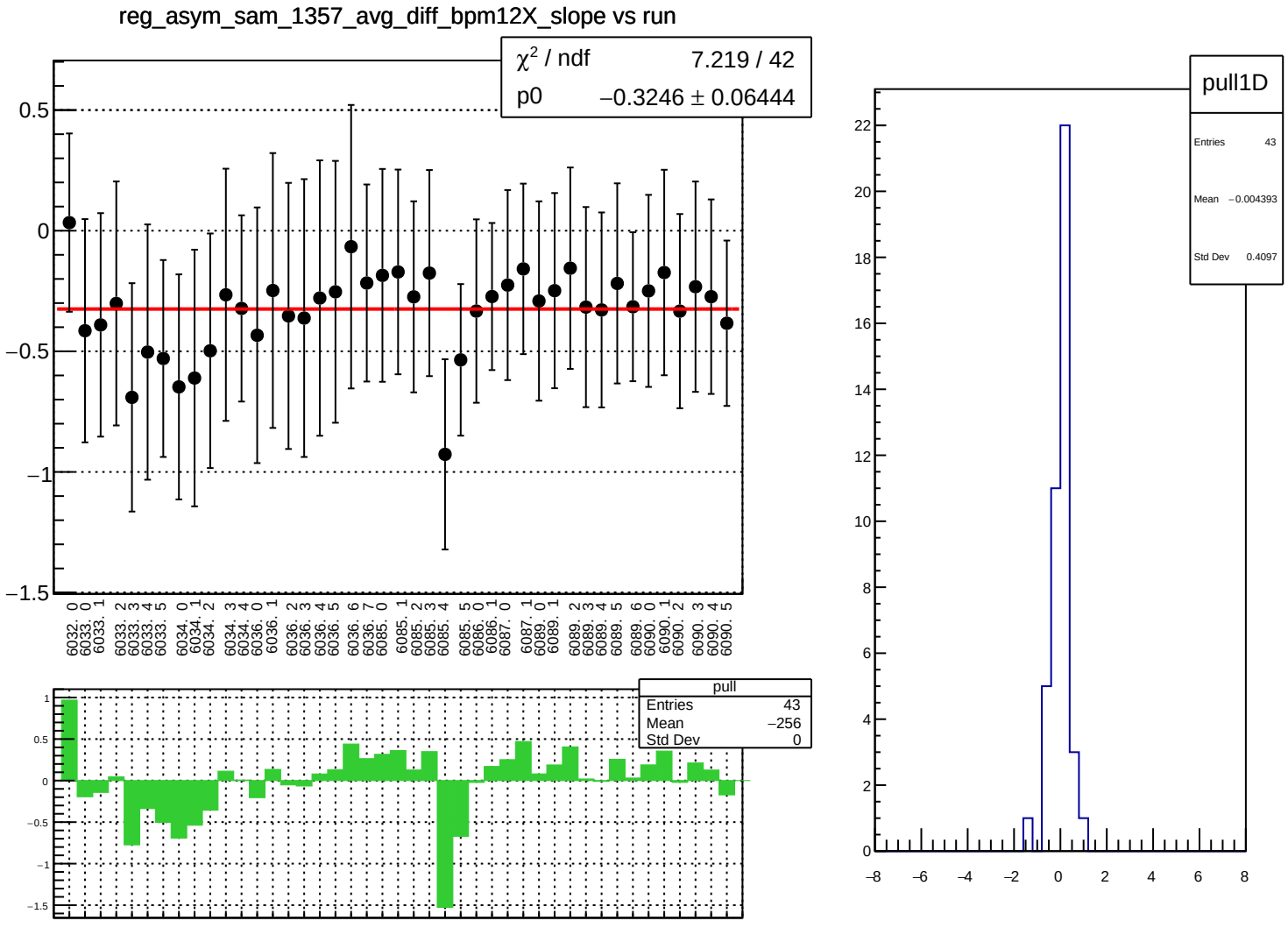

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 25.39 / 42
p0 −4.952 ± 0.6984
pull
Entries 43
Mean 280.9
Std Dev 0
pull1D
Entries 43
Mean 0.01229
Std Dev 0.7683

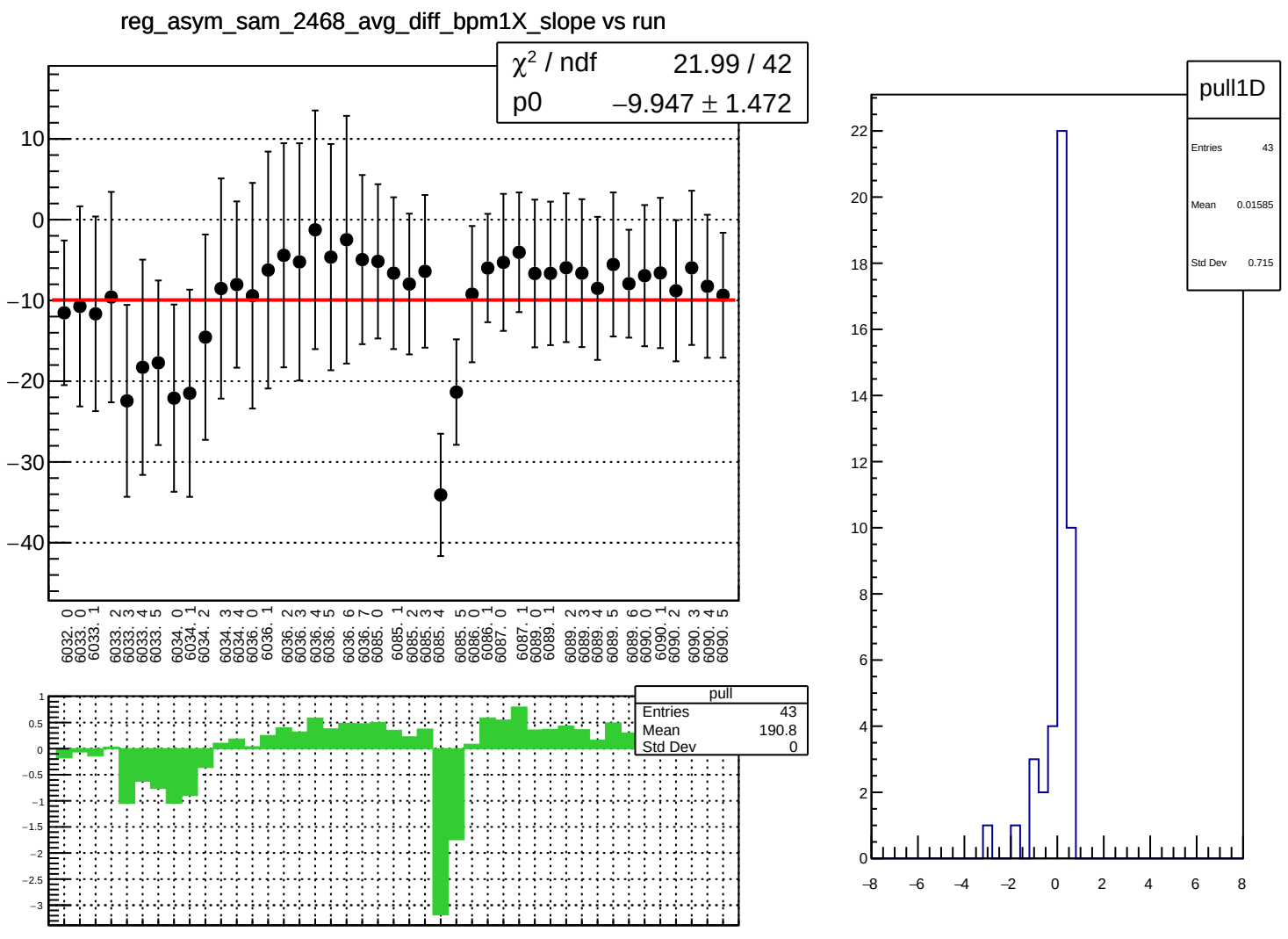

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.38 / 42
p0 3.979 ± 0.7275
pull
Entries 43
Mean −78.66
Std Dev 0

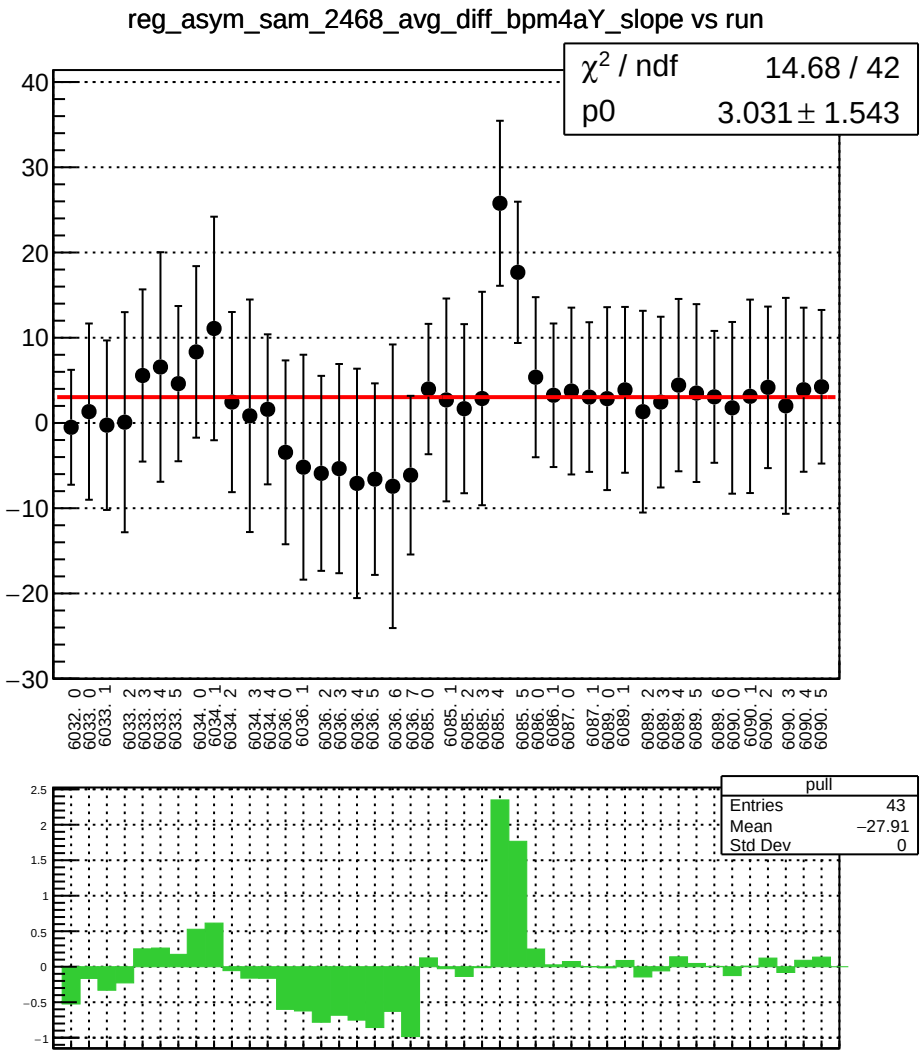

pull1D
Entries 43
Mean −0.01984
Std Dev 0.6711

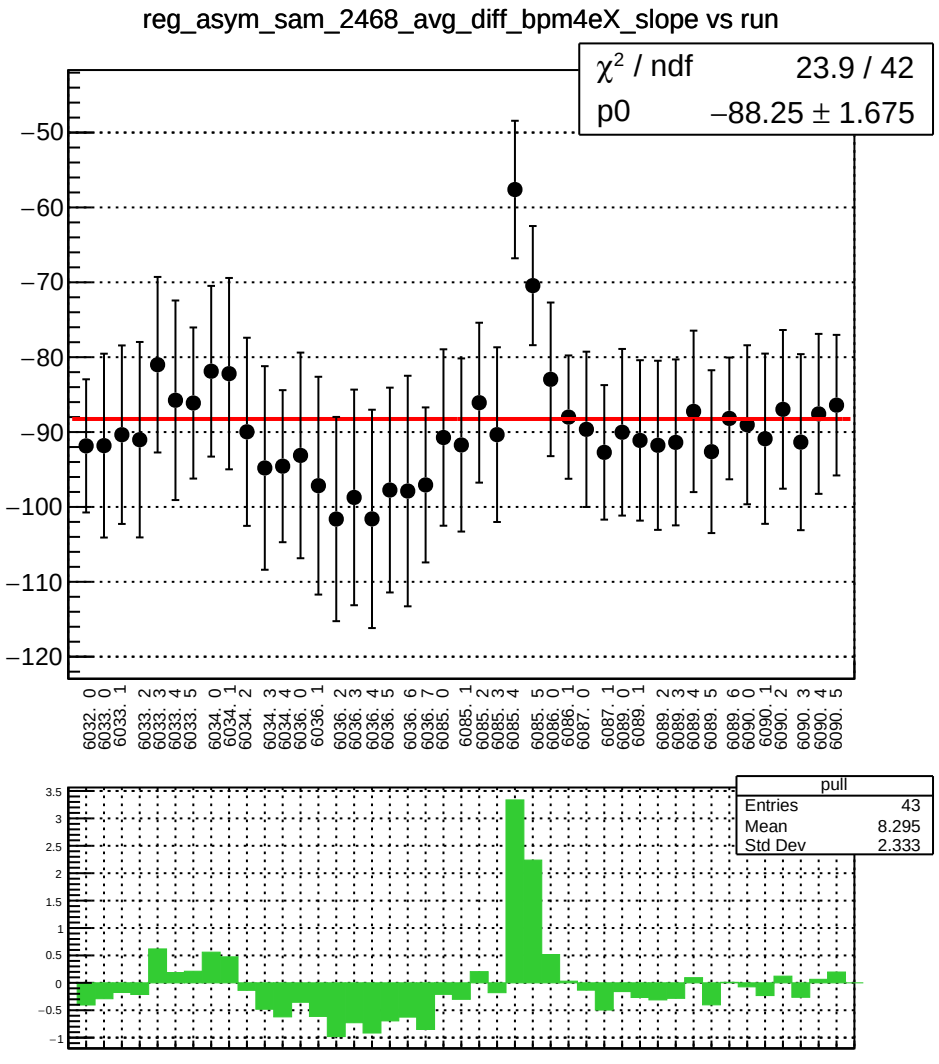

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.97 / 42
p0 −40.29 ± 0.7905
pull
Entries 43
Mean 29.17
Std Dev 7.678
pull1D
Entries 43
Mean −0.04795
Std Dev 0.7905

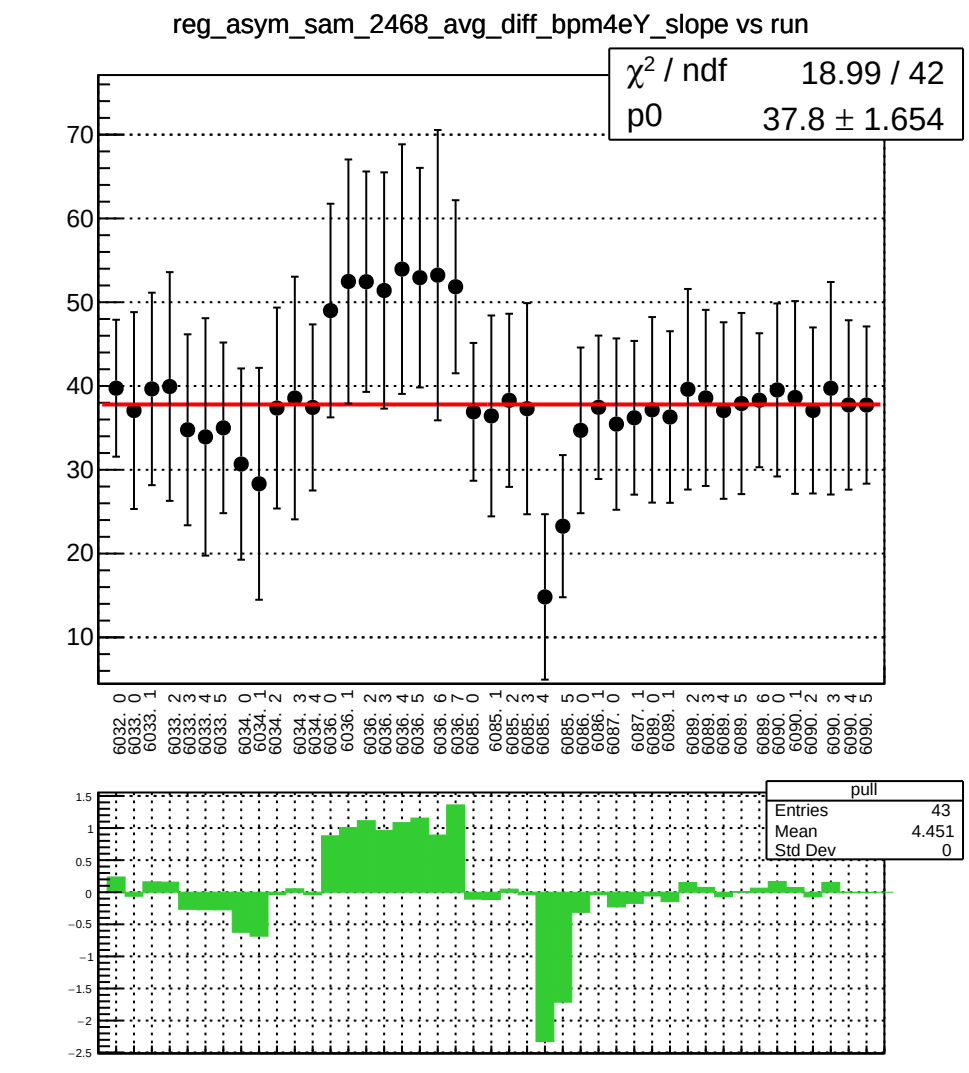

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.99 / 42
p0 26.42 ± 0.7814
pull
Entries 43
Mean −0.1434
Std Dev 0
pull1D
Entries 43
Mean 0.04849
Std Dev 0.7608

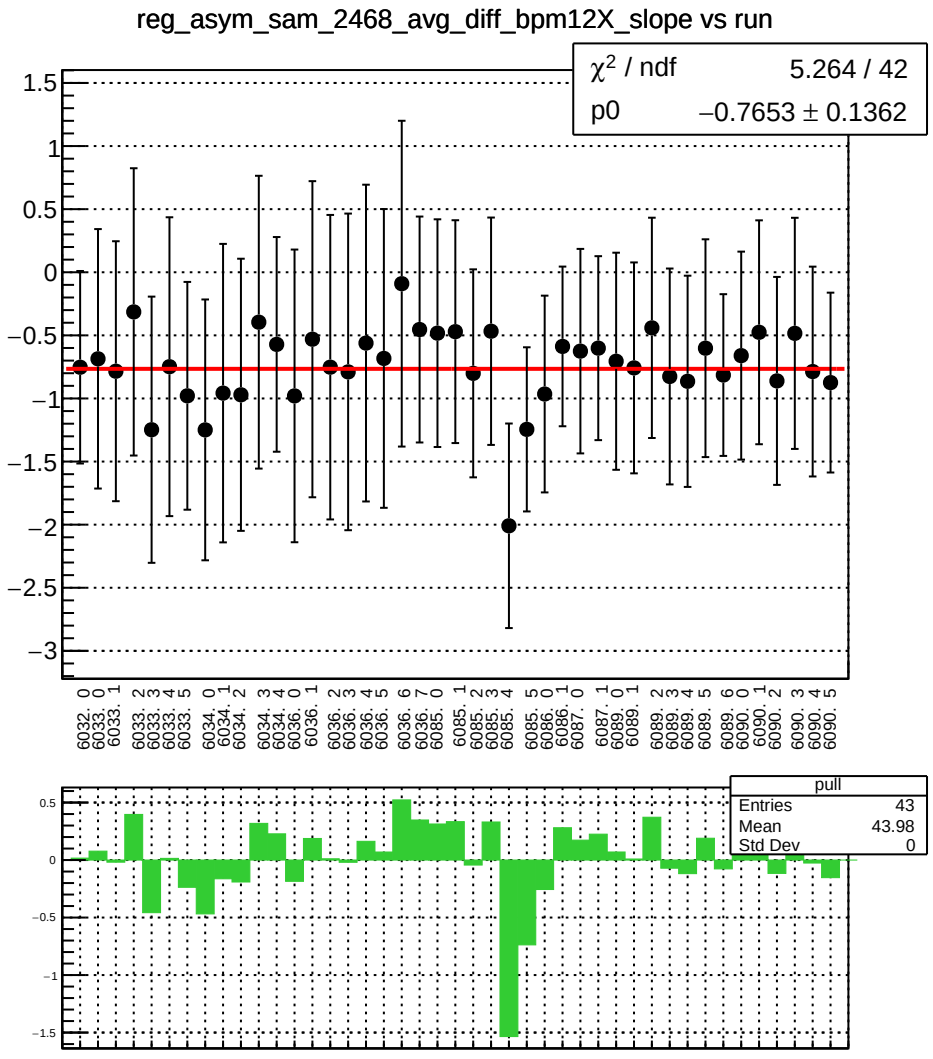

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.219 / 42
p0 −0.3246 ± 0.06444
0.5
0
−0.5
−1
−1.5
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −256
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.004393
Std Dev 0.4097
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

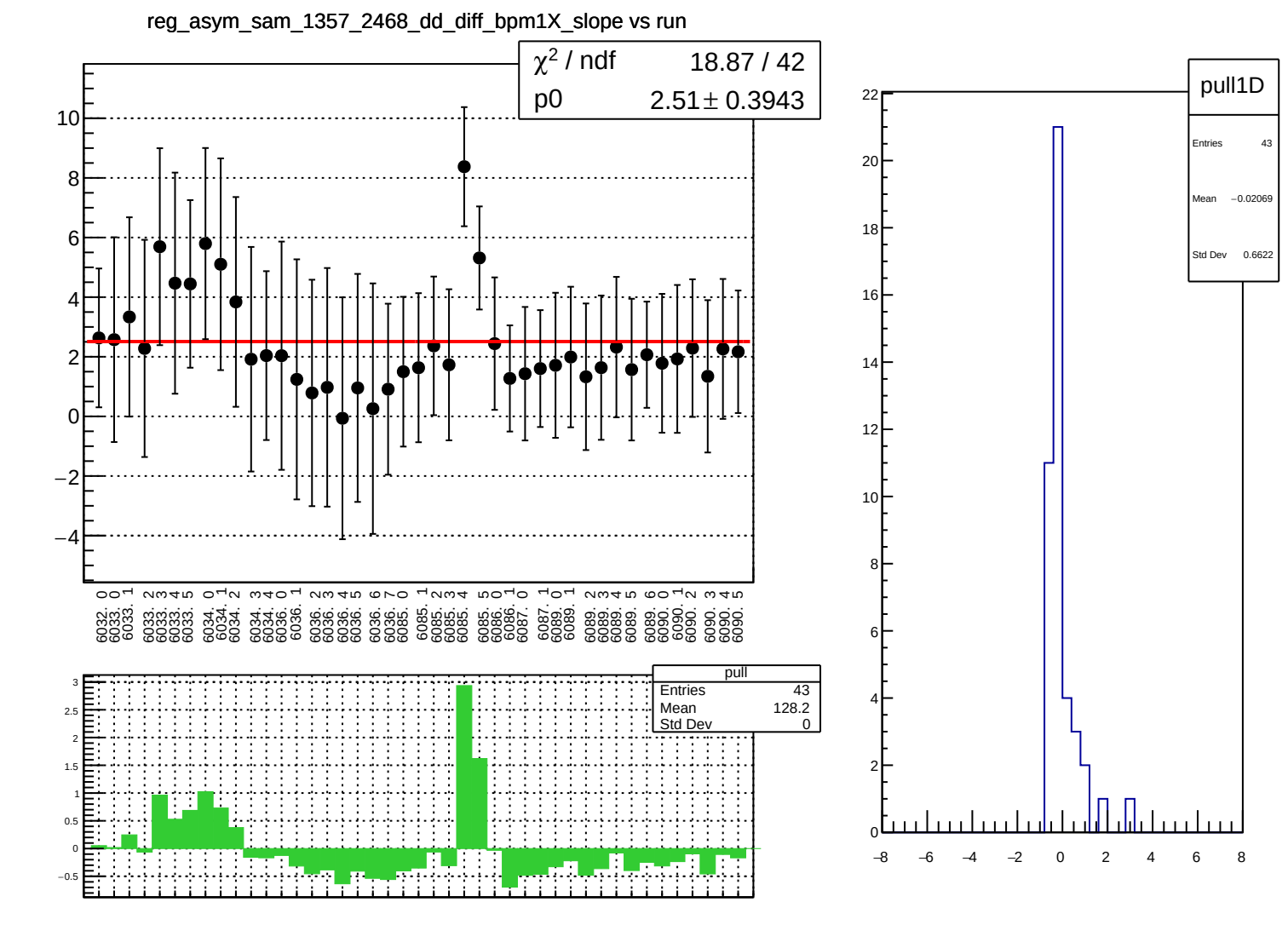

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 21.99 / 42
p0 −9.947 ± 1.472
10
0
−10
−20
−30
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 190.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.01585
Std Dev 0.715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

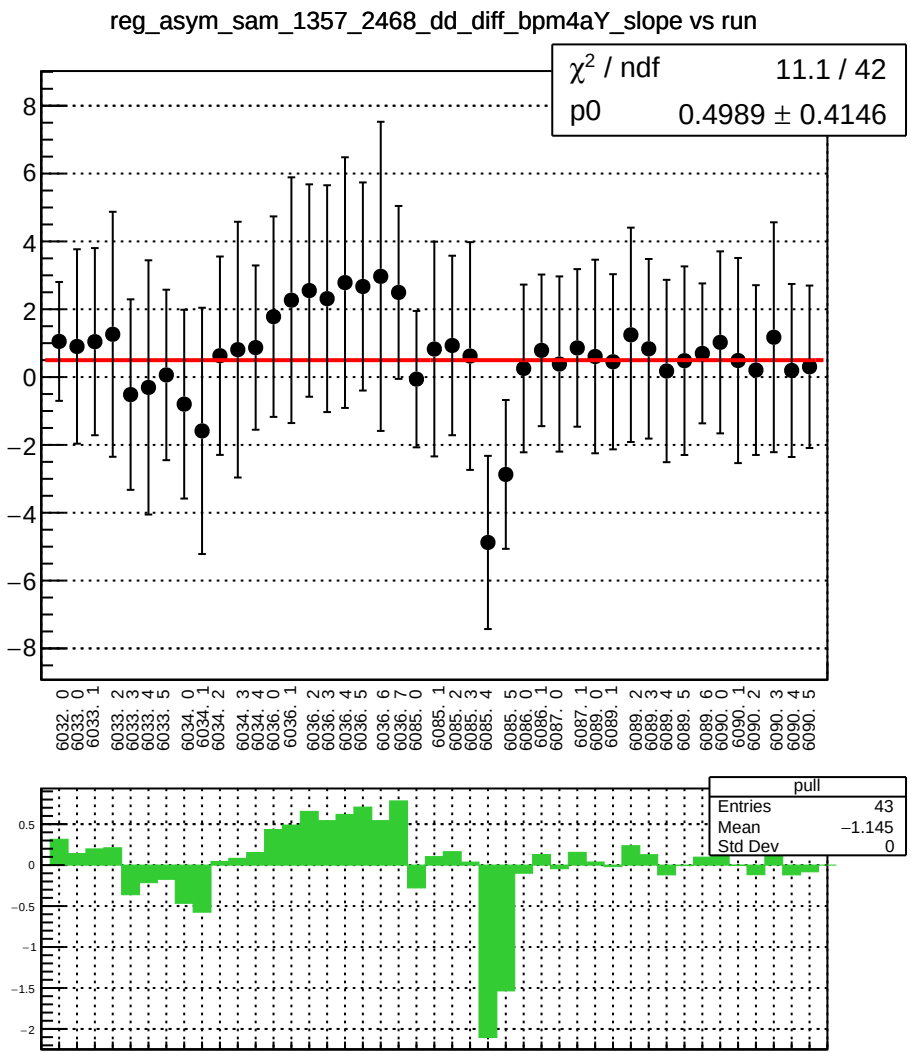

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 42
p0 3.031 ± 1.543
pull
Entries 43
Mean −27.91
Std Dev 0
pull1D
Entries 43
Mean −0.02516
Std Dev 0.5838

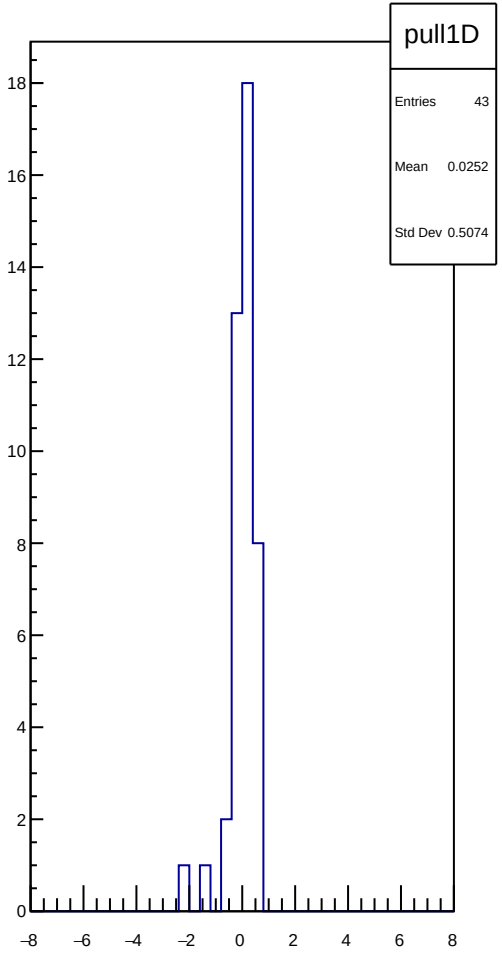

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.9 / 42
p0 −88.25 ± 1.675
−50
−60
−70
−80
−90
−100
−110
−120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.295
Std Dev 2.333
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05871
Std Dev 0.7432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

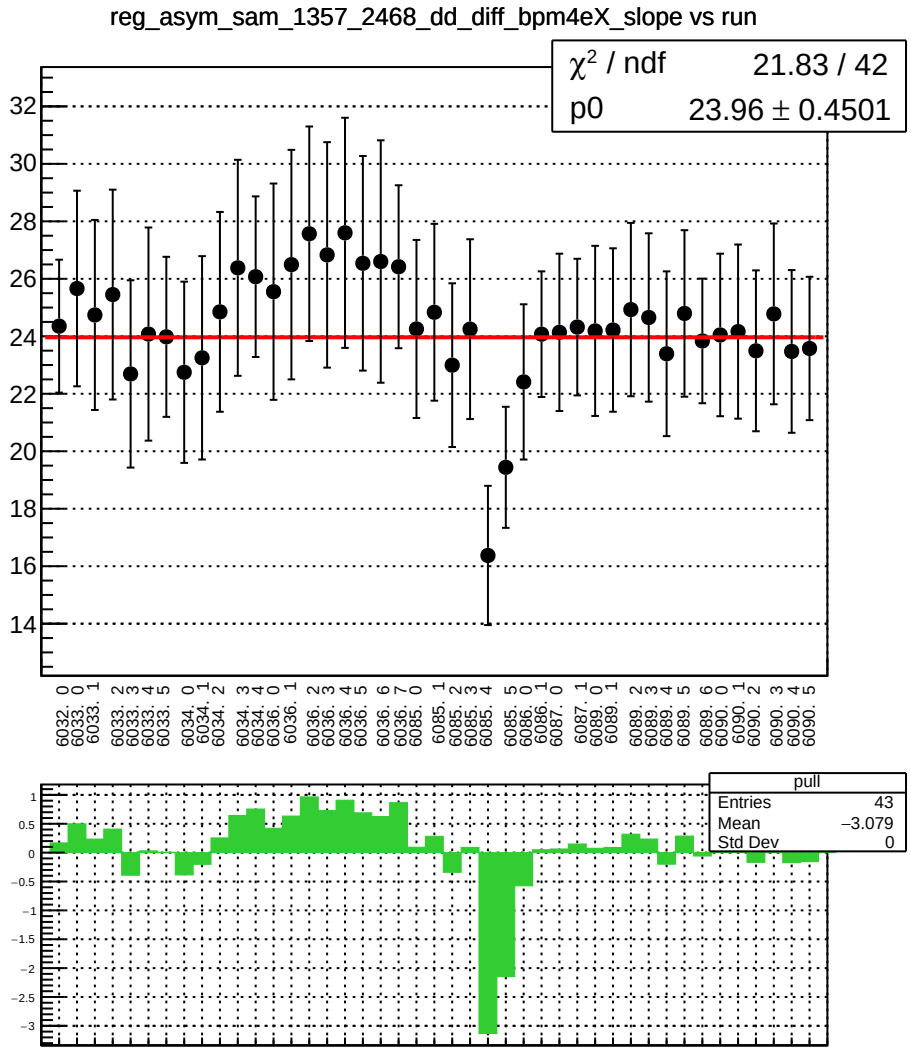

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.99 / 42
p0 37.8 ± 1.654
70
60
50
40
30
20
10
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.451
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04959
Std Dev 0.6627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

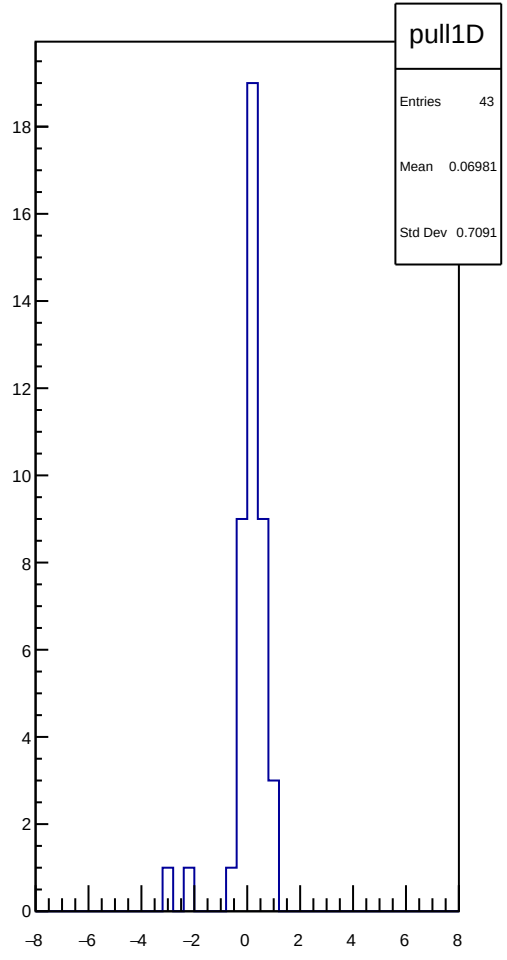

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 5.264 / 42
p0 −0.7653 ± 0.1362
pull
Entries 43
Mean 43.98
Std Dev 0
pull1D
Entries 43
Mean 0.01256
Std Dev 0.3497

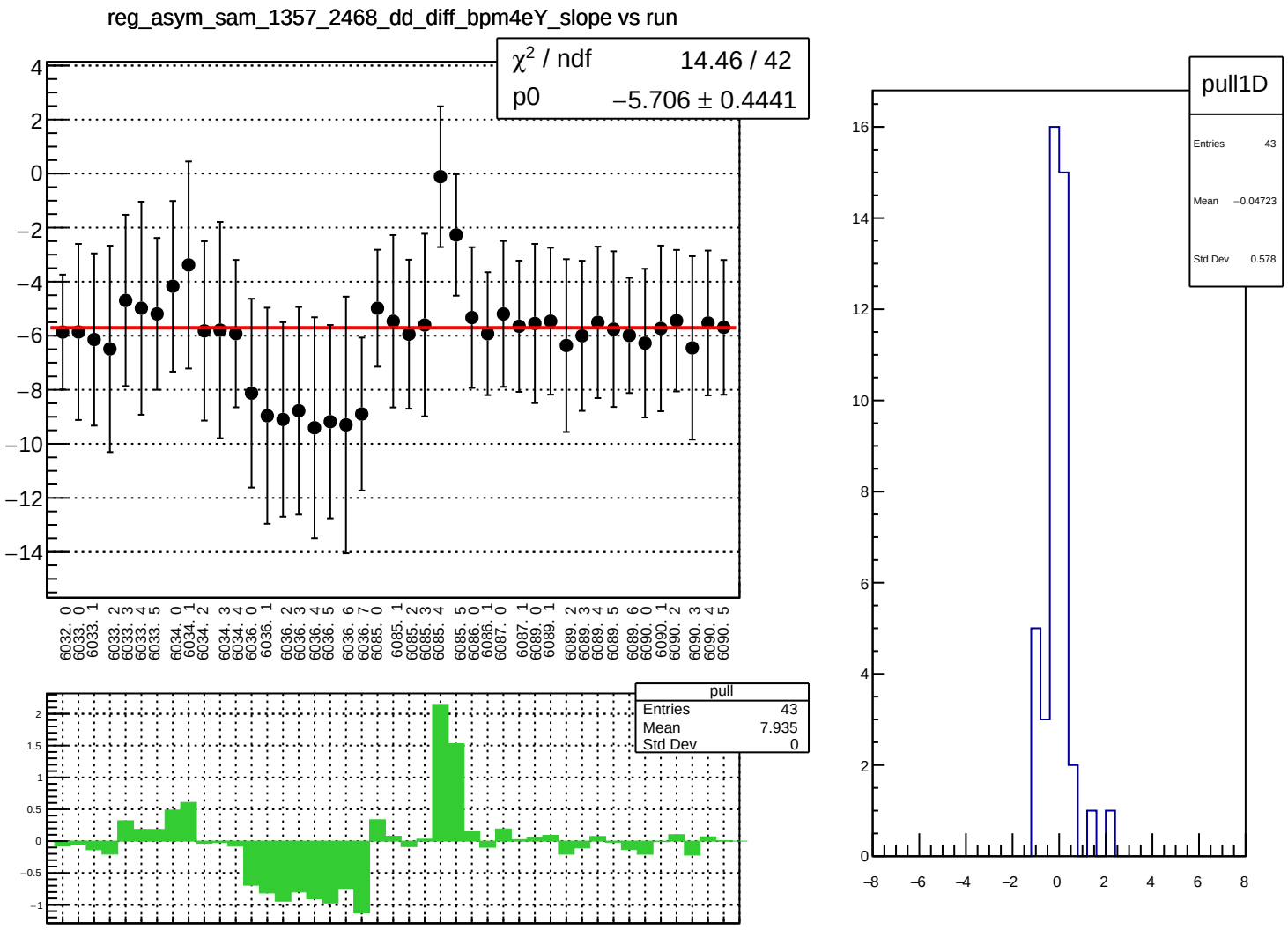

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 18.87 / 42
p0 2.51 ± 0.3943
pull
Entries 43
Mean 128.2
Std Dev 0
pull1D
Entries 43
Mean −0.02069
Std Dev 0.6622

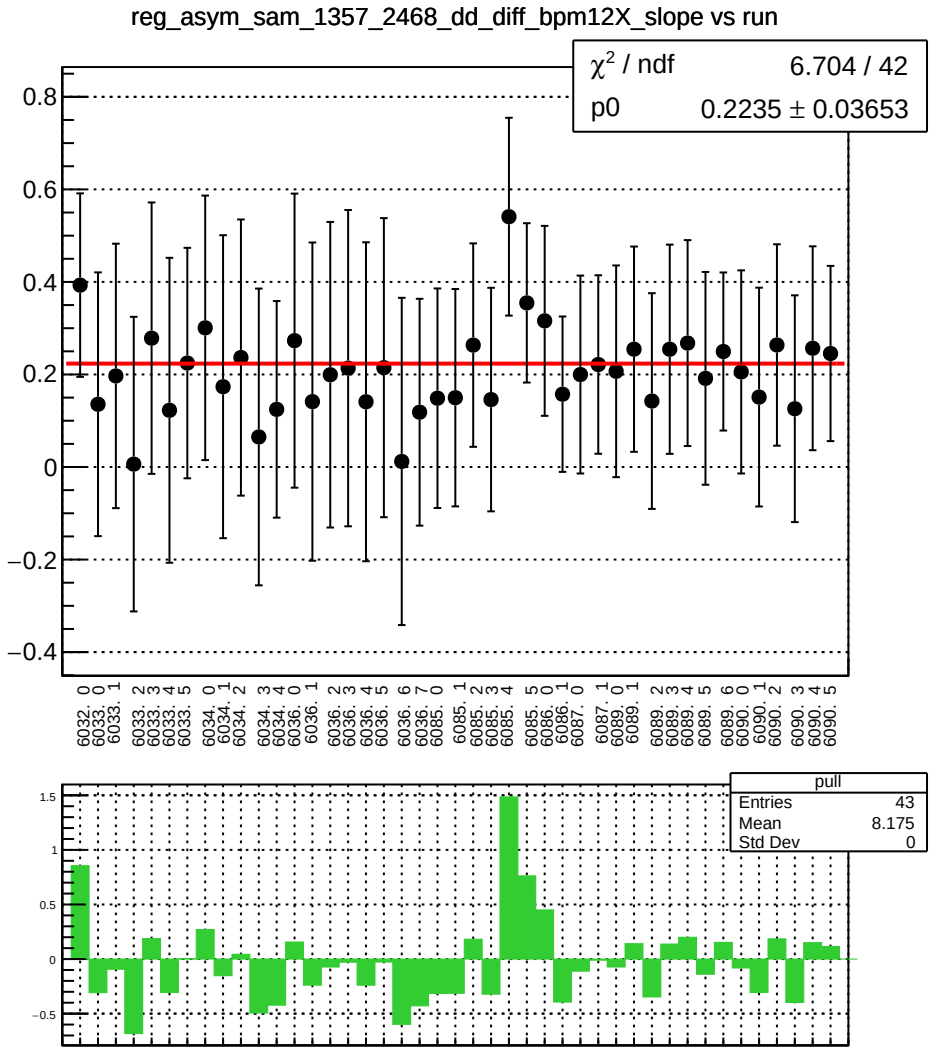

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.1 / 42
p0 0.4989 ± 0.4146
pull
Entries 43
Mean −1.145
Std Dev 0

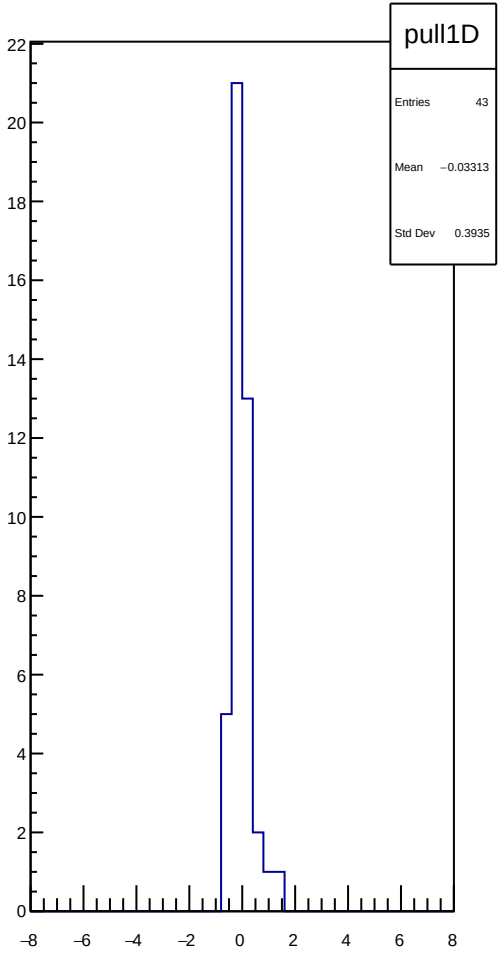

pull1D
Entries 43
Mean 0.0252
Std Dev 0.5074

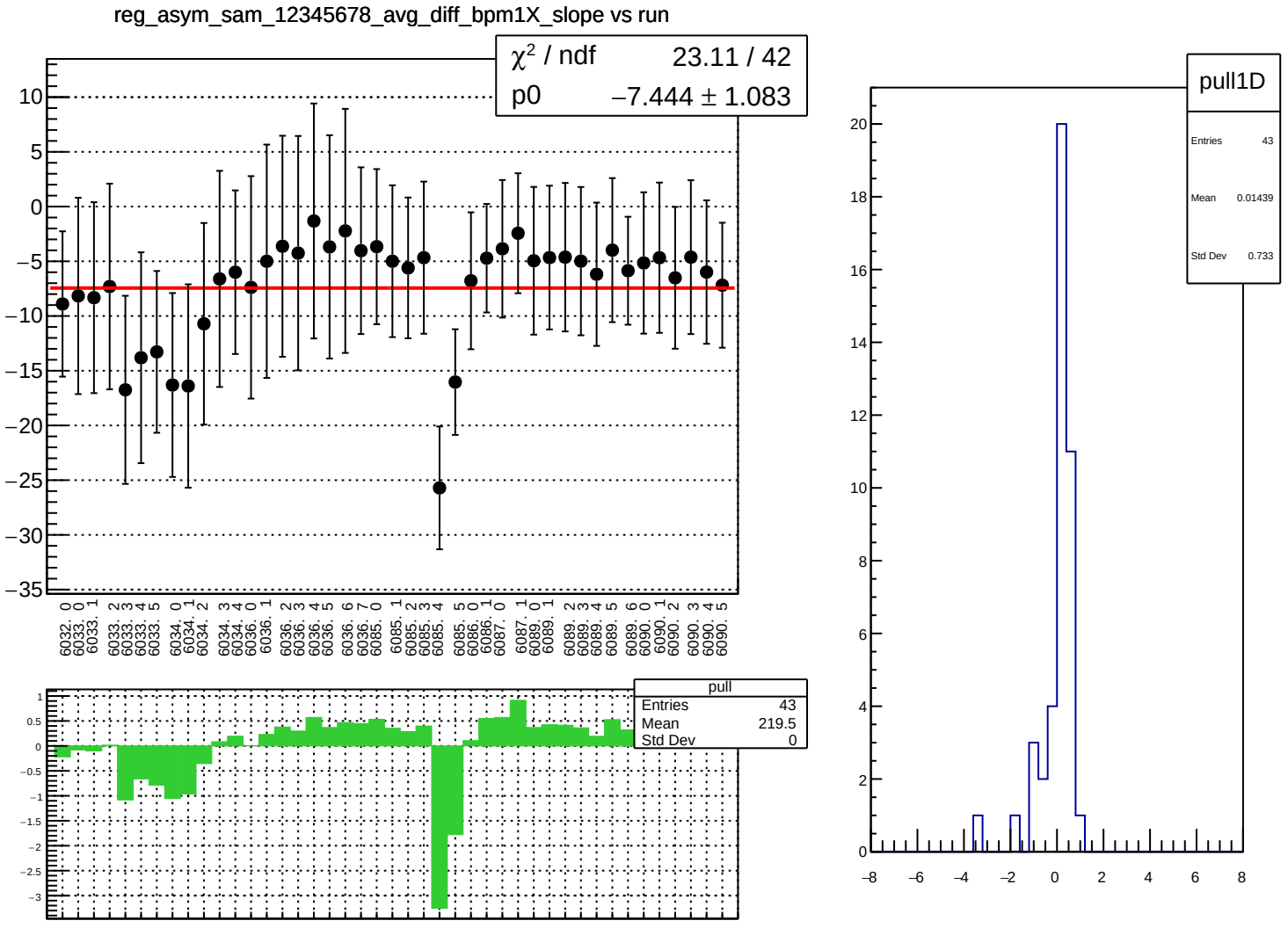

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.83 / 42
p0 23.96 ± 0.4501
pull
Entries 43
Mean −3.079
Std Dev 0

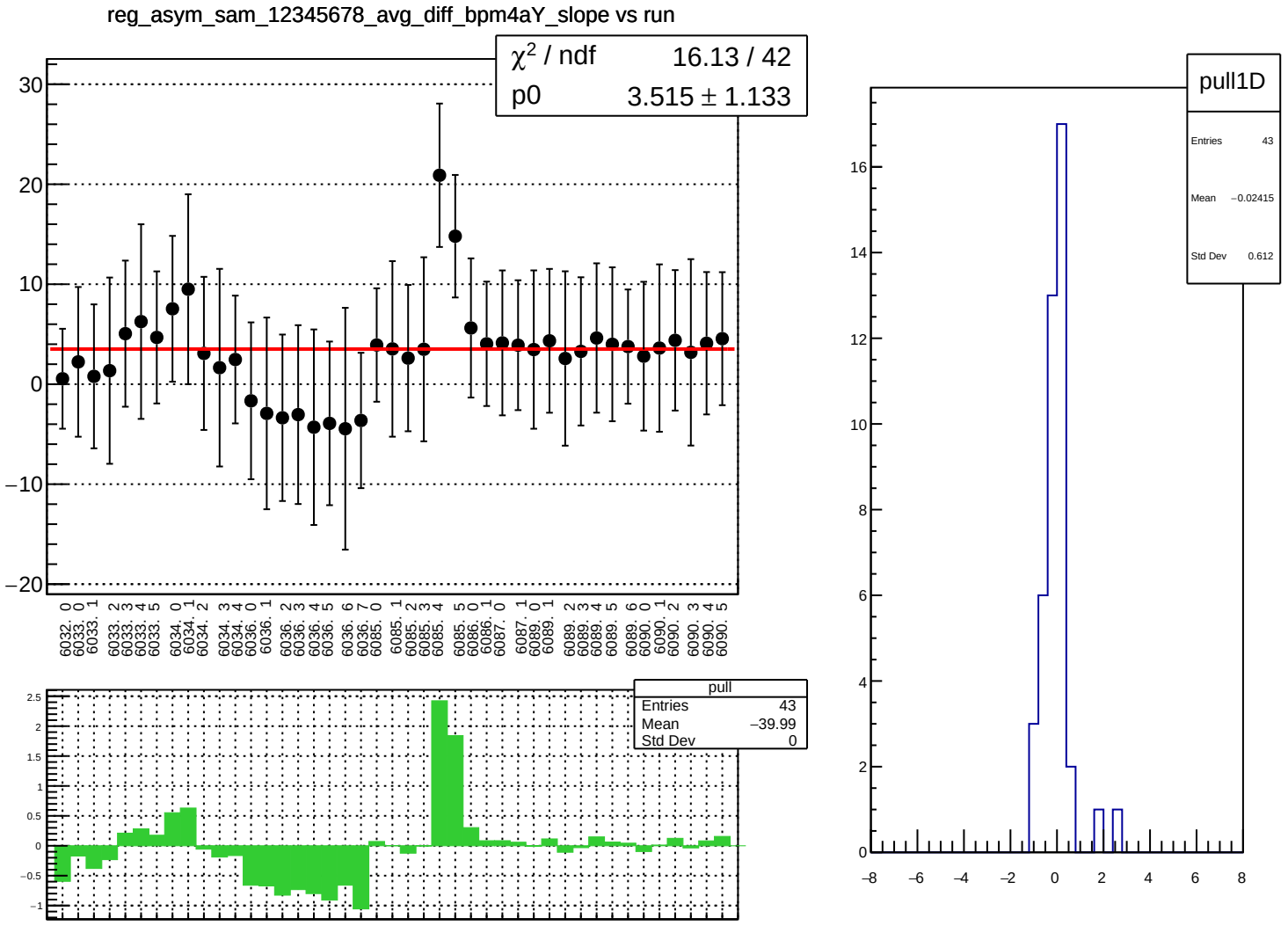

pull1D
Entries 43
Mean 0.06981
Std Dev 0.7091

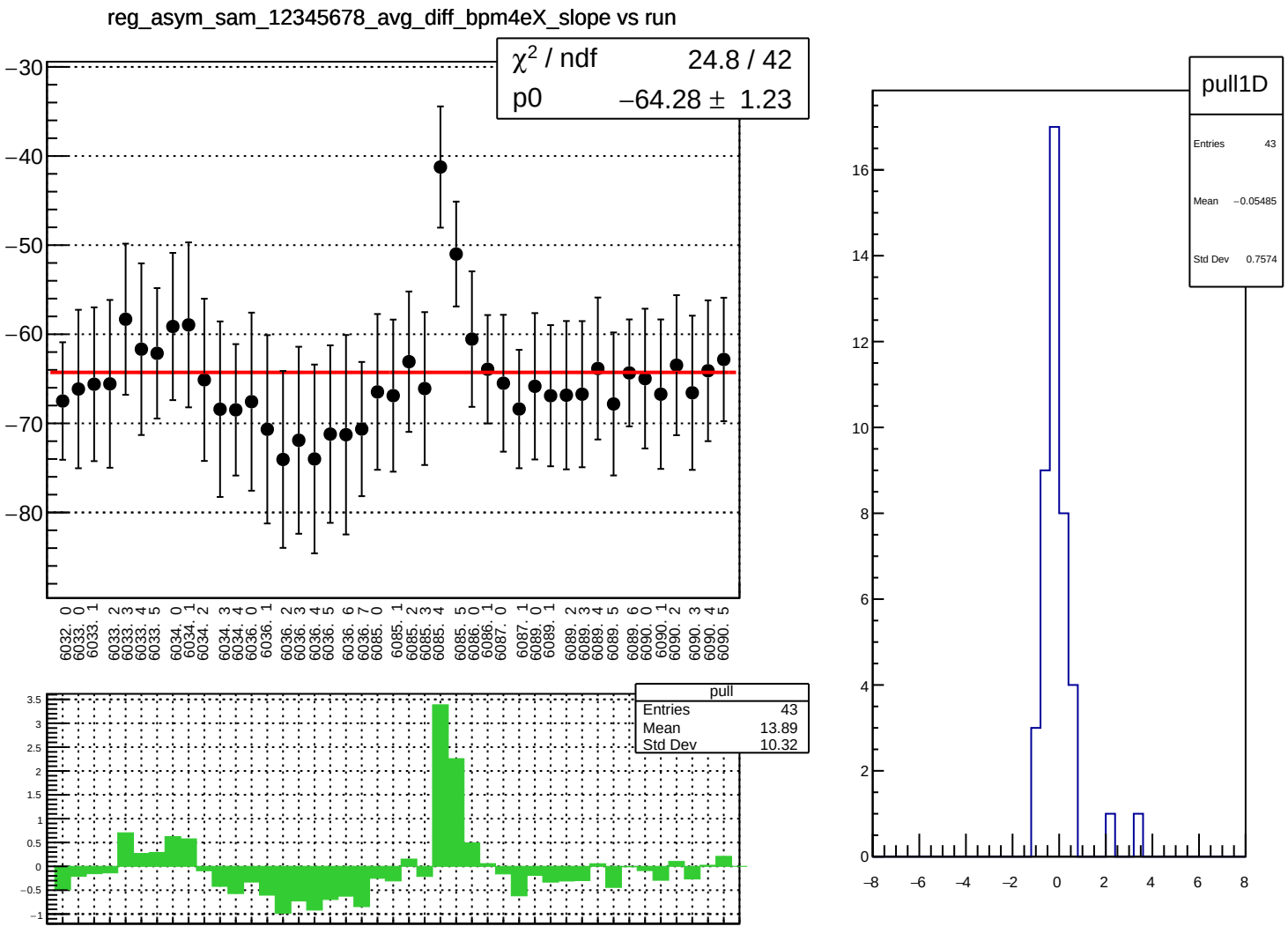

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.46 / 42
p0 −5.706 ± 0.4441
pull
Entries 43
Mean 7.935
Std Dev 0
pull1D
Entries 43
Mean −0.04723
Std Dev 0.578

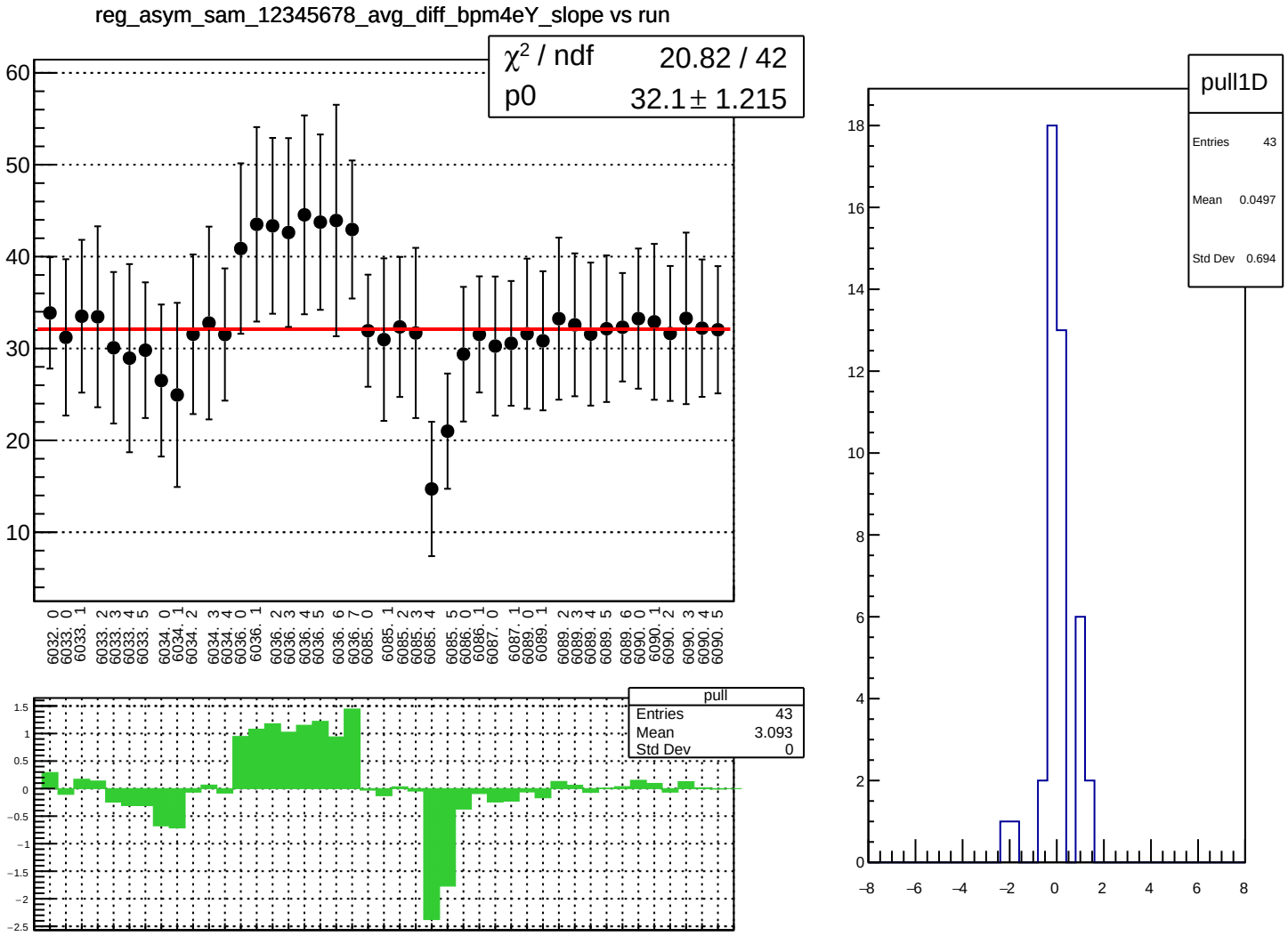

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 6.704 / 42
p0 0.2235 ± 0.03653
0.8
0.6
0.4
0.2
0
−0.2
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.175
Std Dev 0
1.5
1
0.5
0
−0.5

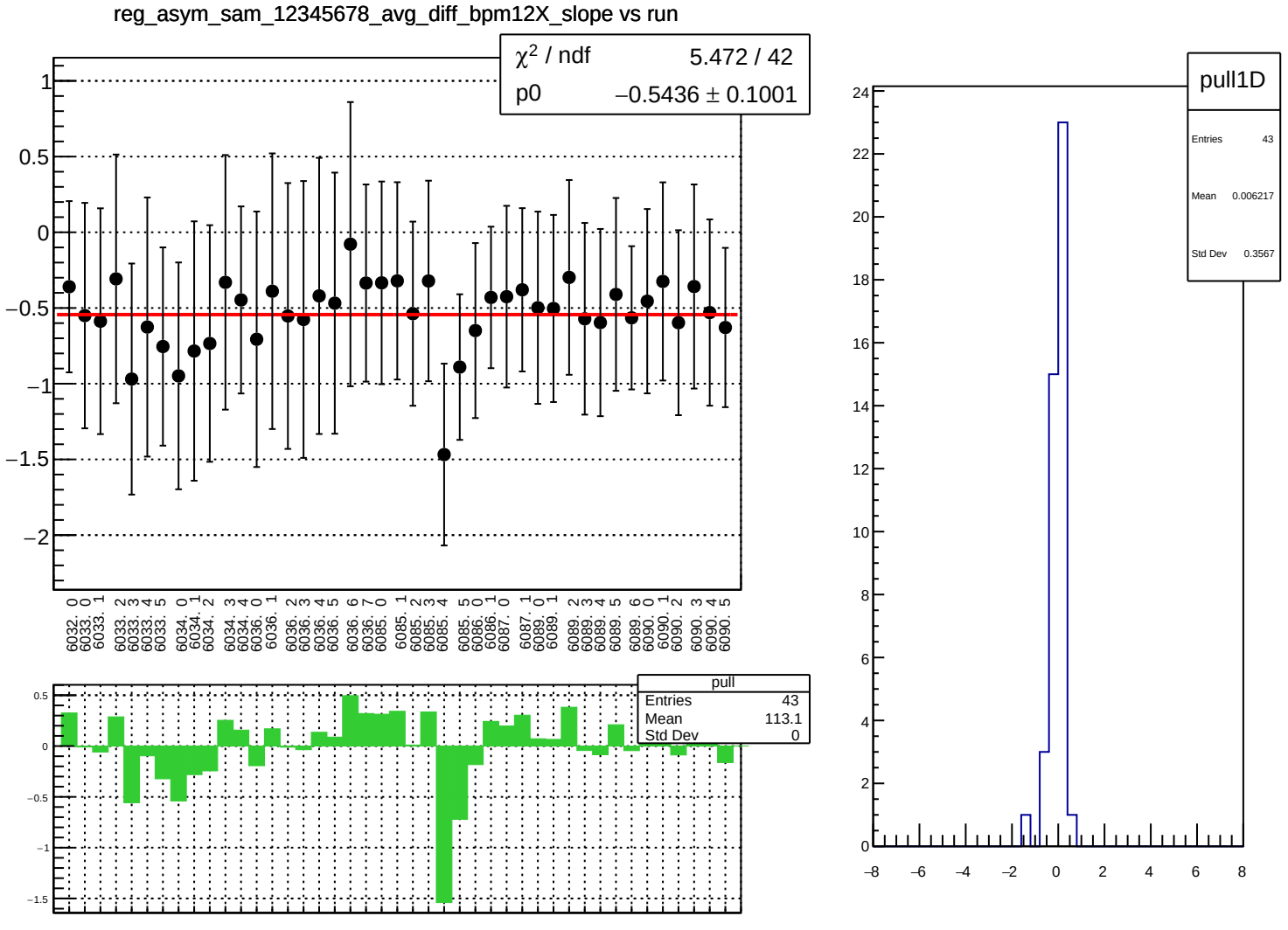

pull1D
Entries 43
Mean −0.03313
Std Dev 0.3935
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

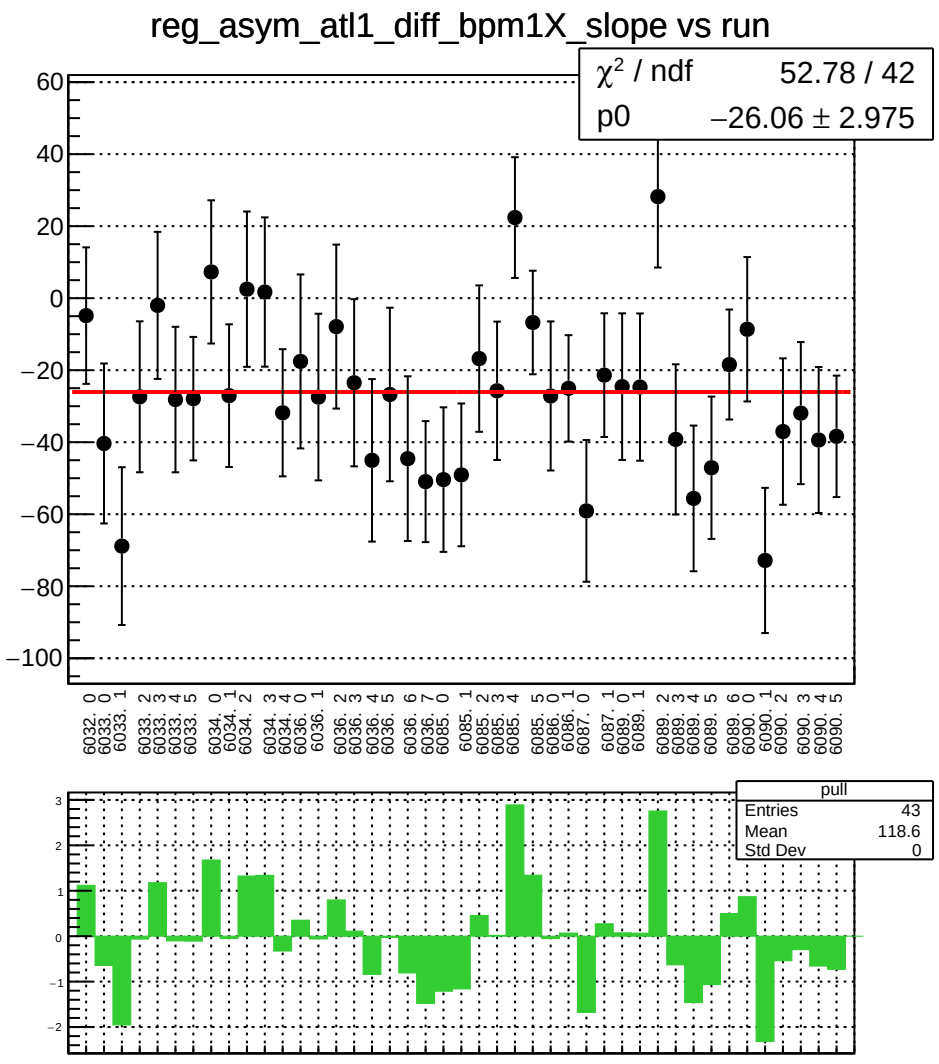

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 23.11 / 42
p0 −7.444 ± 1.083
pull
Entries 43
Mean 219.5
Std Dev 0
pull1D
Entries 43
Mean 0.01439
Std Dev 0.733

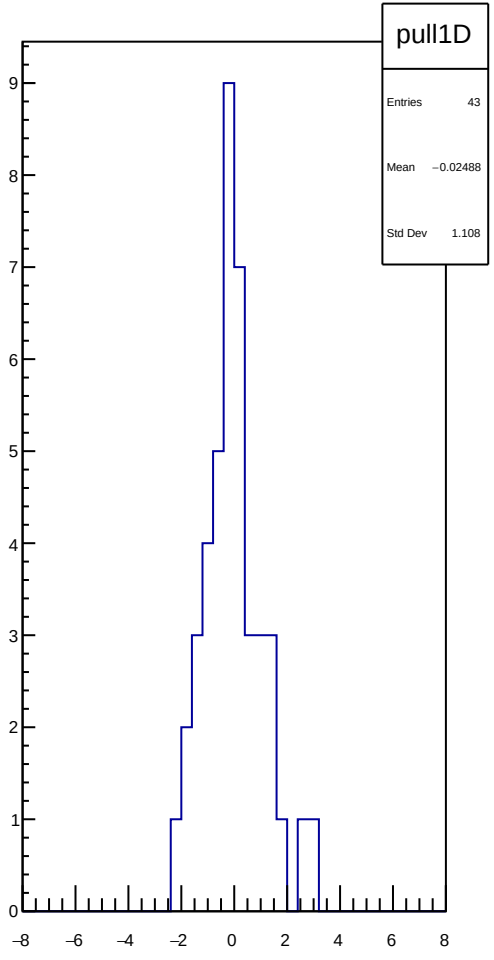

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.13 / 42
p0 3.515 ± 1.133
30
20
10
0
−10
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −39.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02415
Std Dev 0.612
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

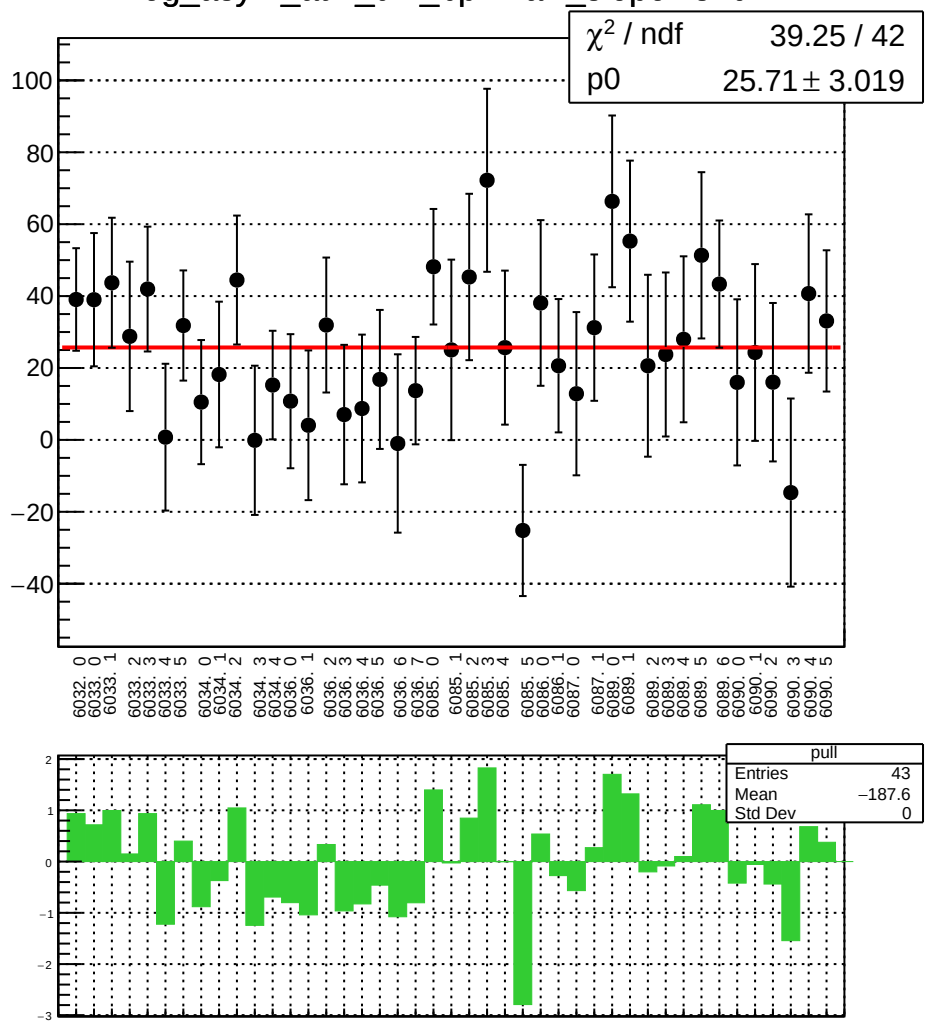

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.8 / 42
p0 −64.28 ± 1.23
−30
−40
−50
−60
−70
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 13.89
Std Dev 10.32
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05485
Std Dev 0.7574
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

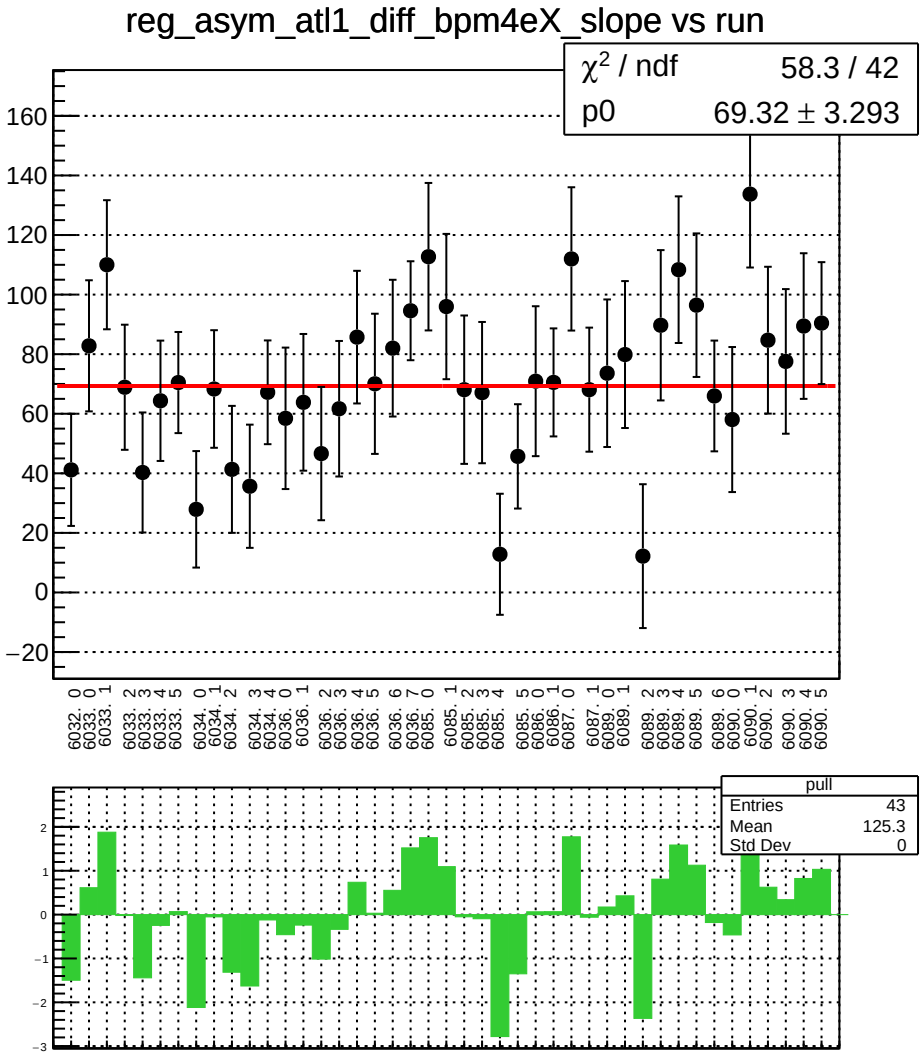

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.82 / 42
p0 32.1 ± 1.215
pull
Entries 43
Mean 3.093
Std Dev 0
pull1D
Entries 43
Mean 0.0497
Std Dev 0.694

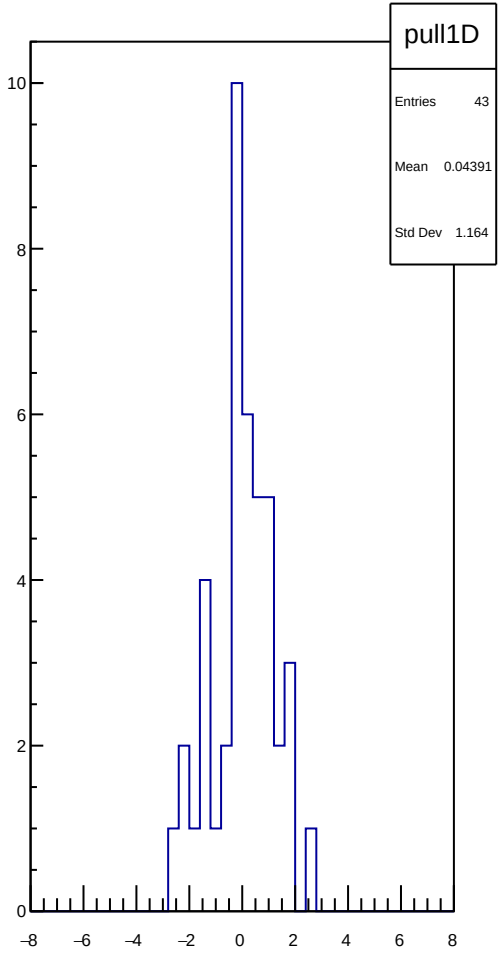

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 5.472 / 42
p0 −0.5436 ± 0.1001
pull
Entries 43
Mean 113.1
Std Dev 0
pull1D
Entries 43
Mean 0.006217
Std Dev 0.3567

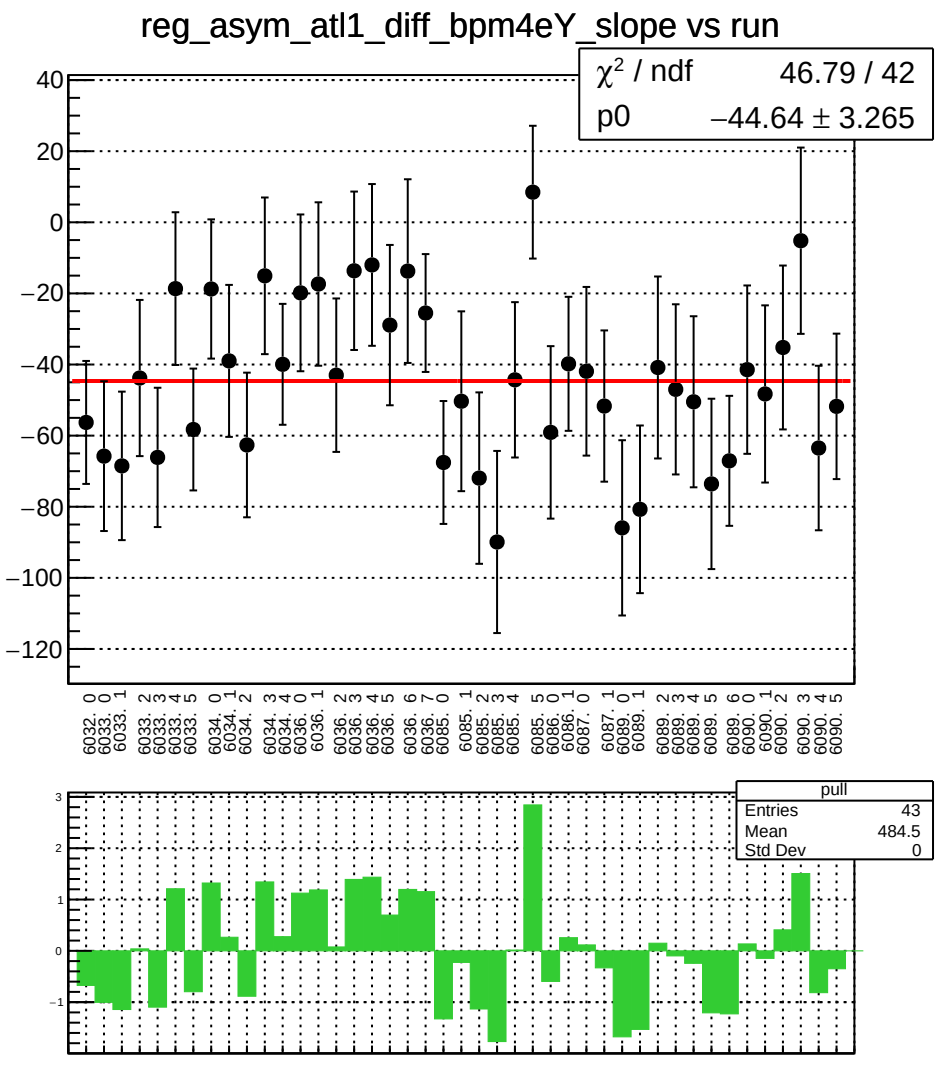

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 52.78 / 42
p0 −26.06 ± 2.975
pull
Entries 43
Mean 118.6
Std Dev 0

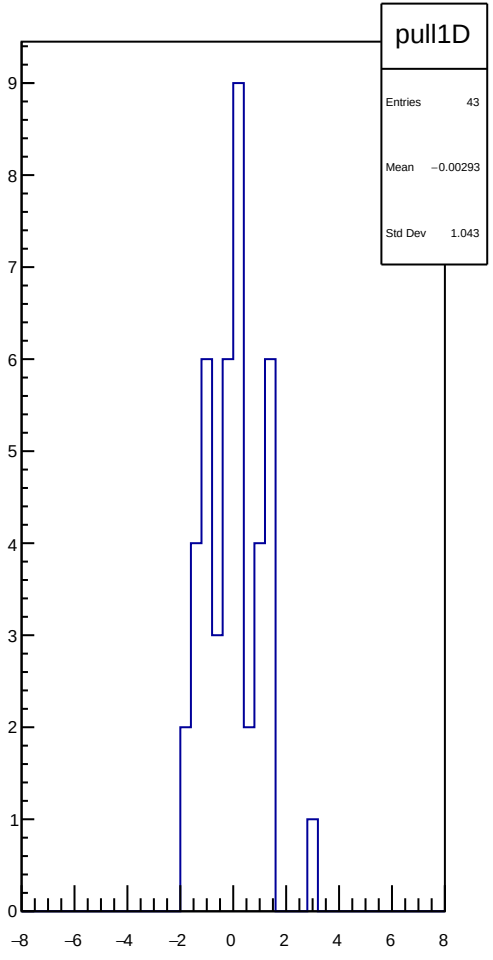

pull1D
Entries 43
Mean −0.02488
Std Dev 1.108

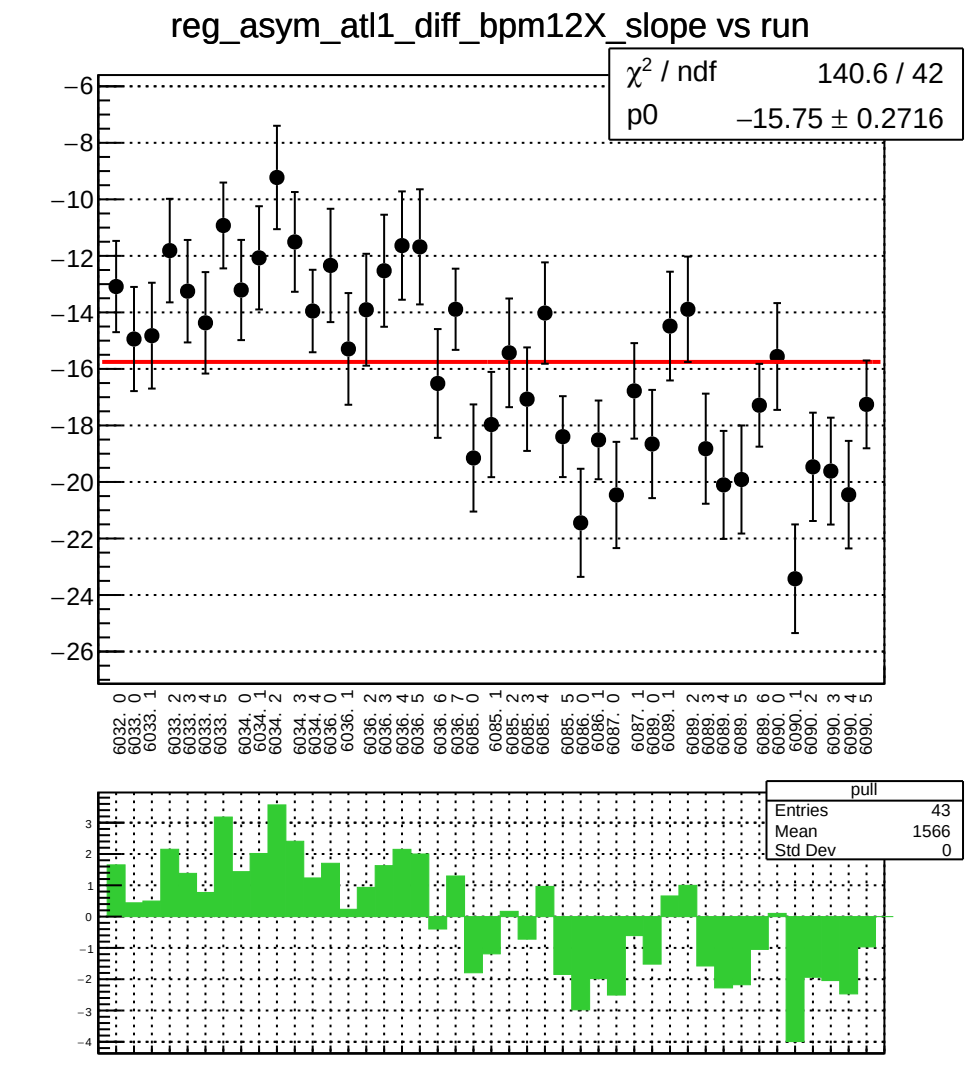

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 39.25 / 42
p0 25.71 ± 3.019
pull
Entries 43
Mean −187.6
Std Dev 0
pull1D
Entries 43
Mean −0.002437
Std Dev 0.9554

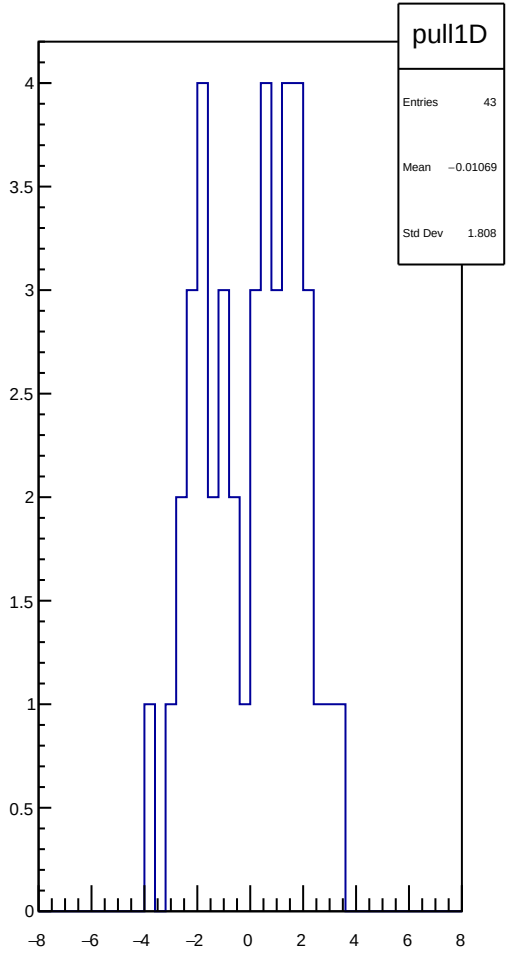

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 58.3 / 42
p0 69.32 ± 3.293
pull
Entries 43
Mean 125.3
Std Dev 0

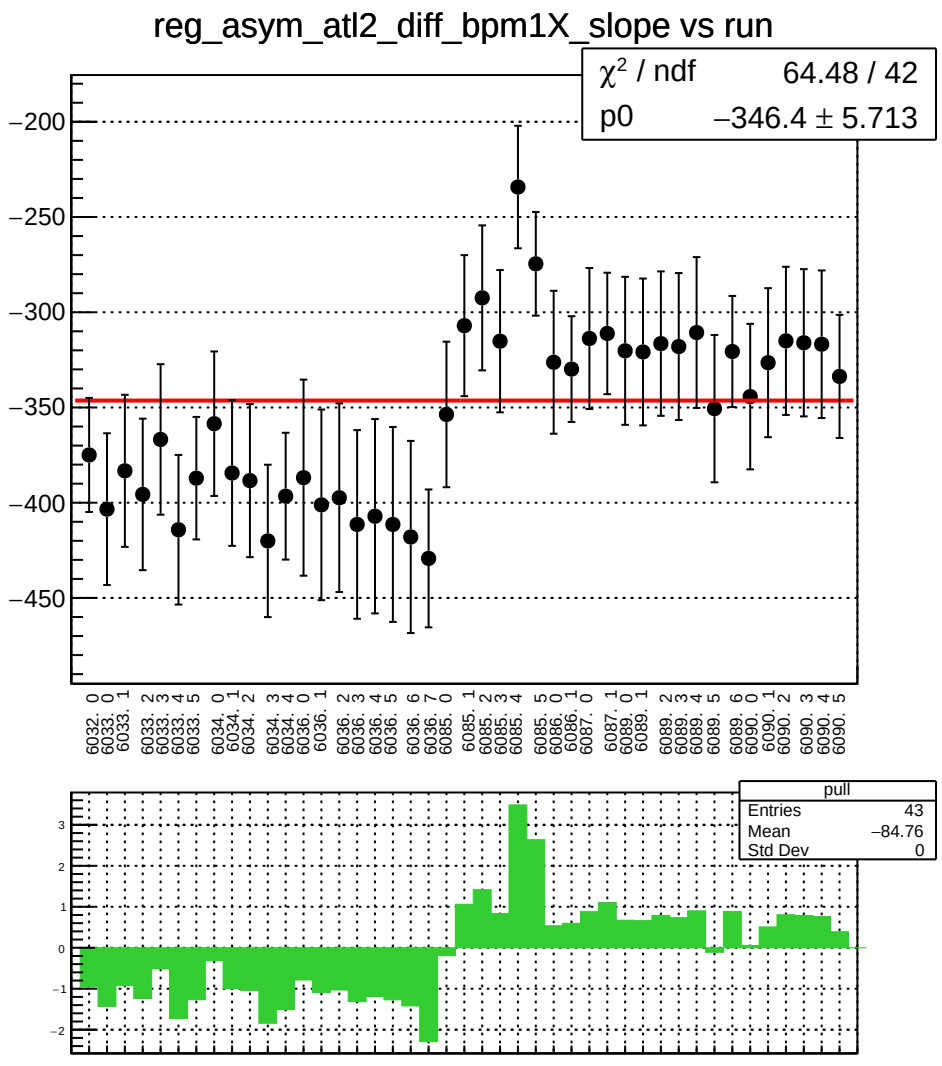

pull1D
Entries 43
Mean 0.04391
Std Dev 1.164

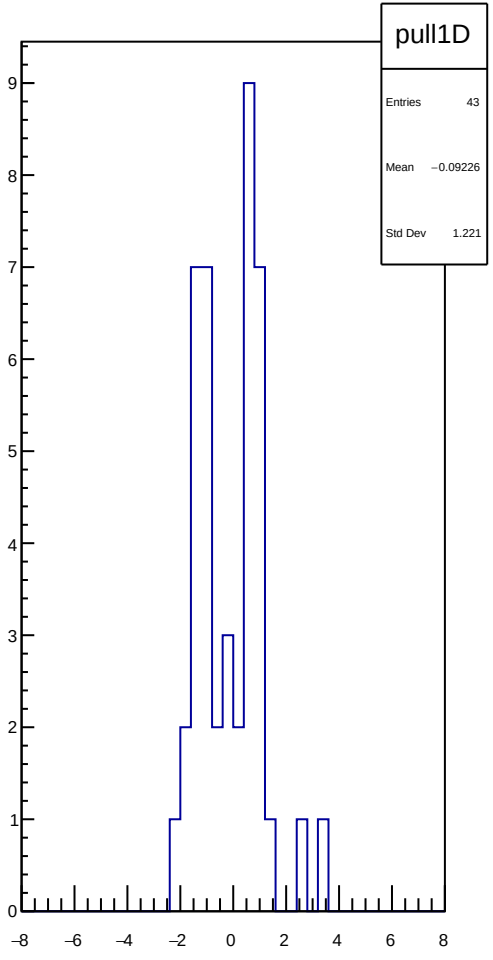

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 46.79 / 42
p0 −44.64 ± 3.265
pull
Entries 43
Mean 484.5
Std Dev 0

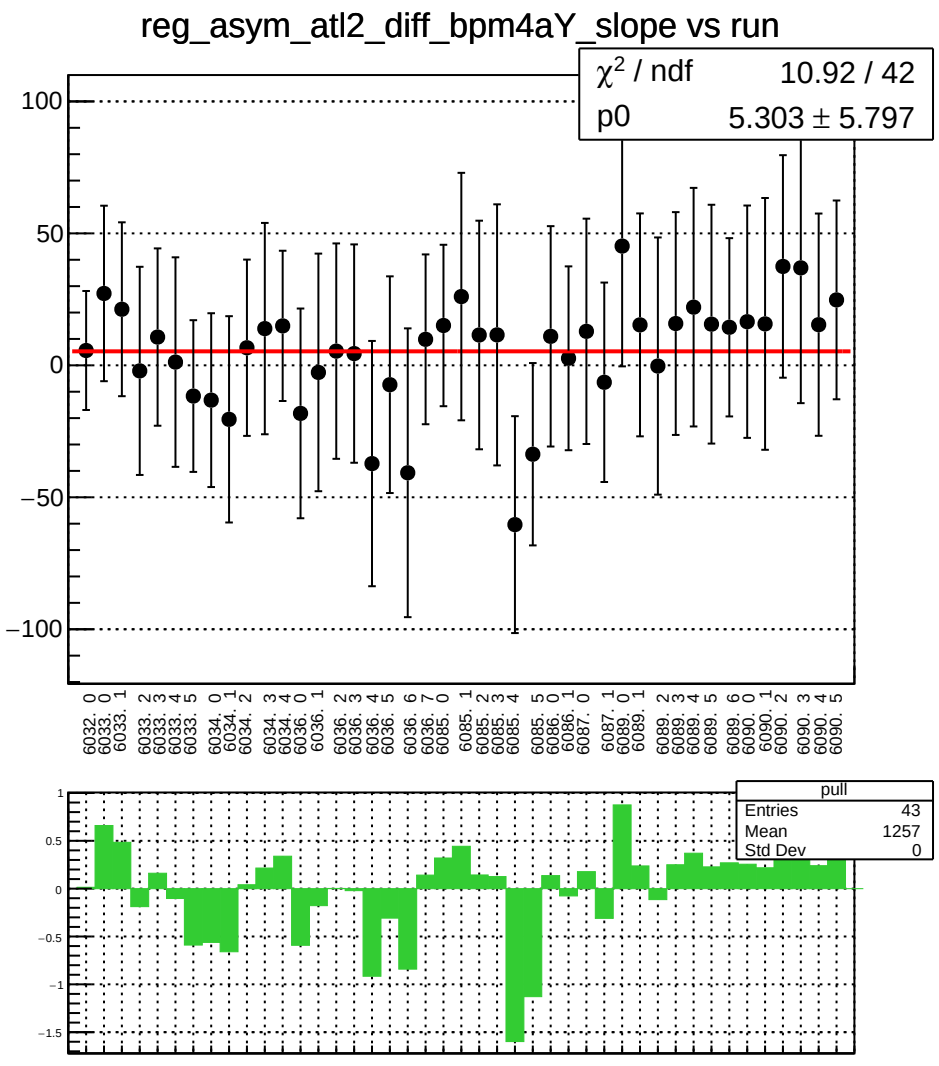

pull1D
Entries 43
Mean −0.00293
Std Dev 1.043

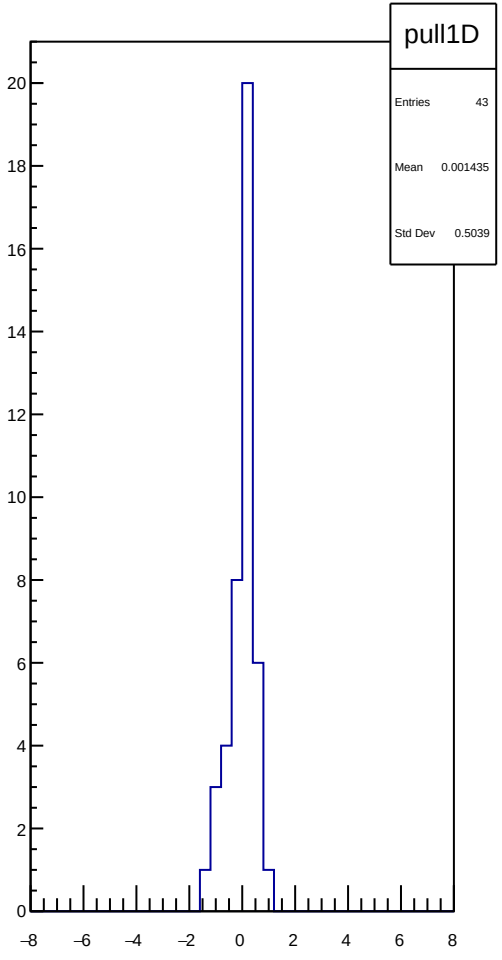

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 140.6 / 42
p0 −15.75 ± 0.2716
pull
Entries 43
Mean 1566
Std Dev 0

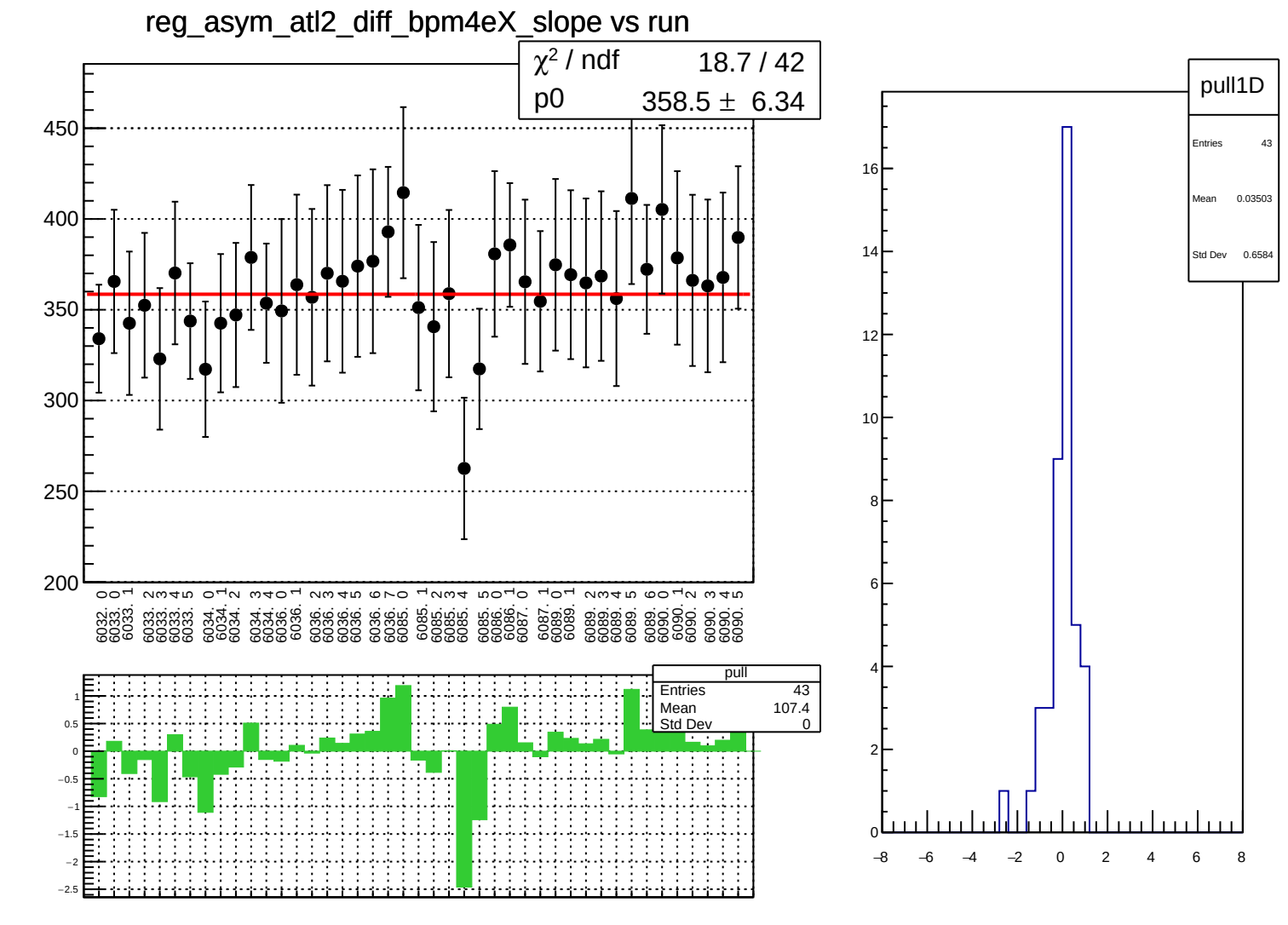

pull1D
Entries 43
Mean −0.01069
Std Dev 1.808

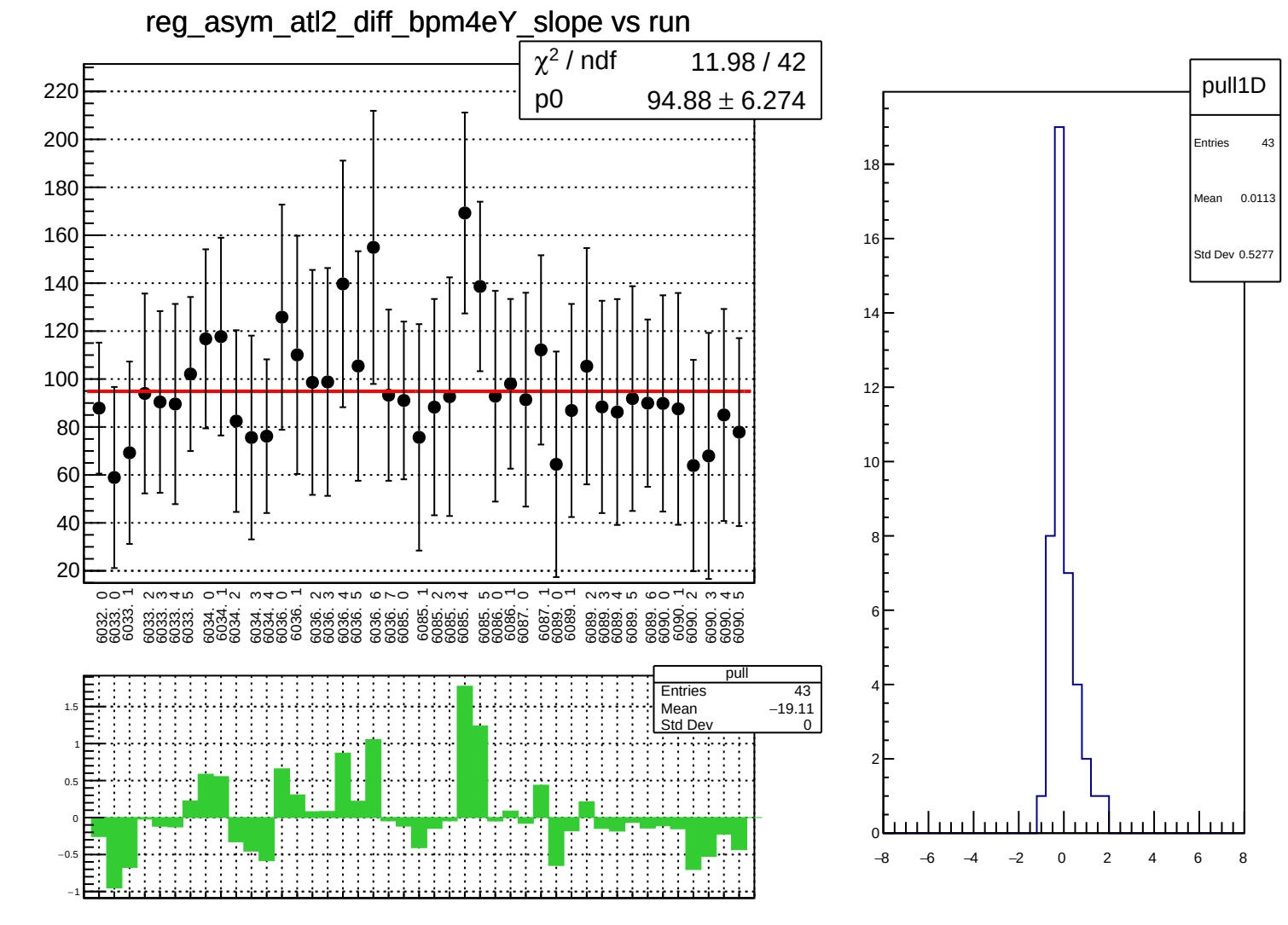

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 64.48 / 42
p0 −346.4 ± 5.713
−200
−250
−300
−350
−400
−450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −84.76
Std Dev 0
3
2
1
0
−1
−2

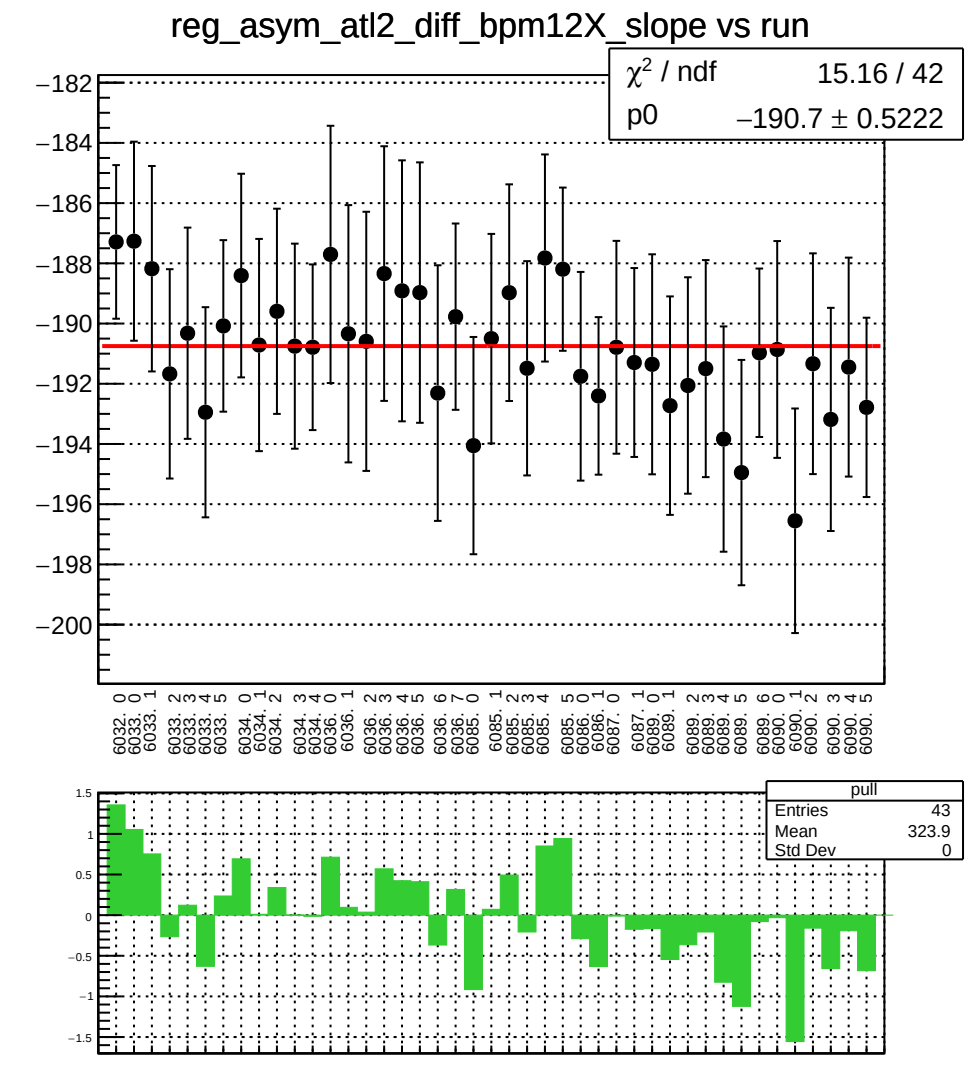

pull1D
Entries 43
Mean −0.09226
Std Dev 1.221
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

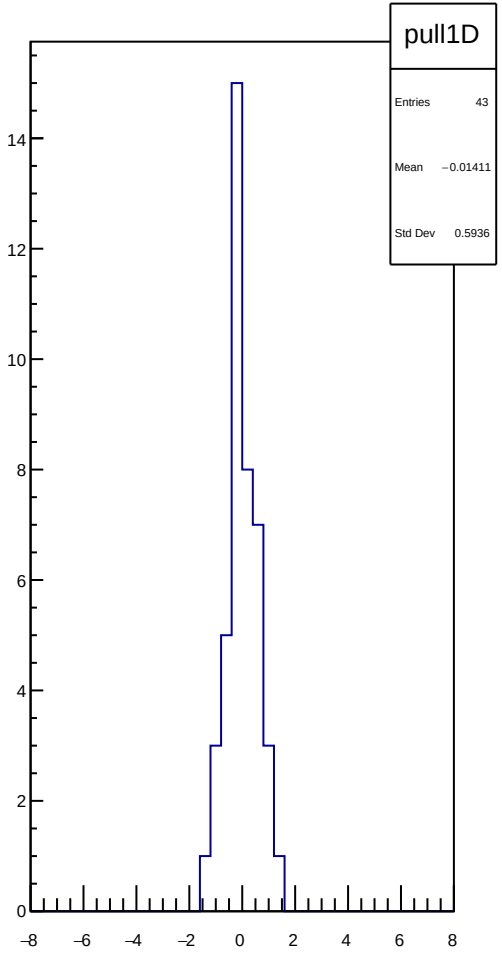

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 10.92 / 42
p0 5.303 ± 5.797
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1257
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

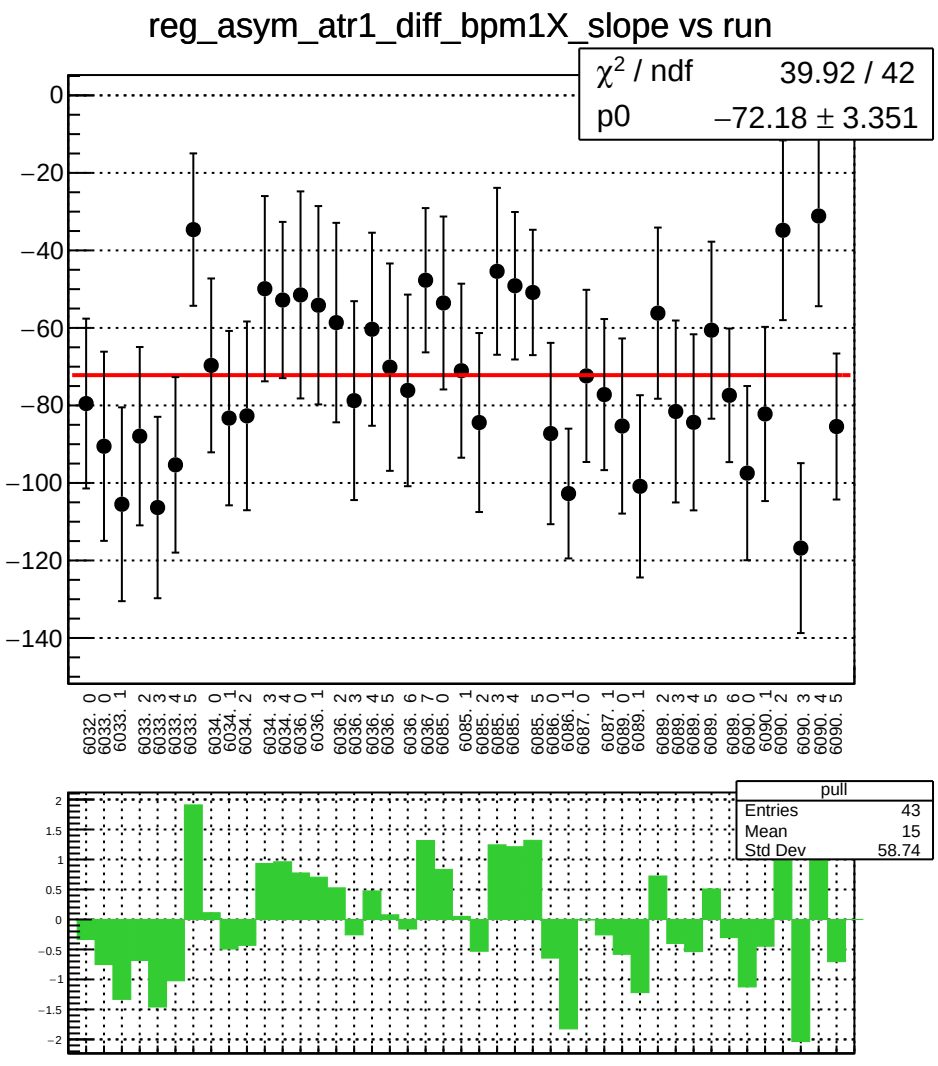

pull1D
Entries 43
Mean 0.001435
Std Dev 0.5039
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

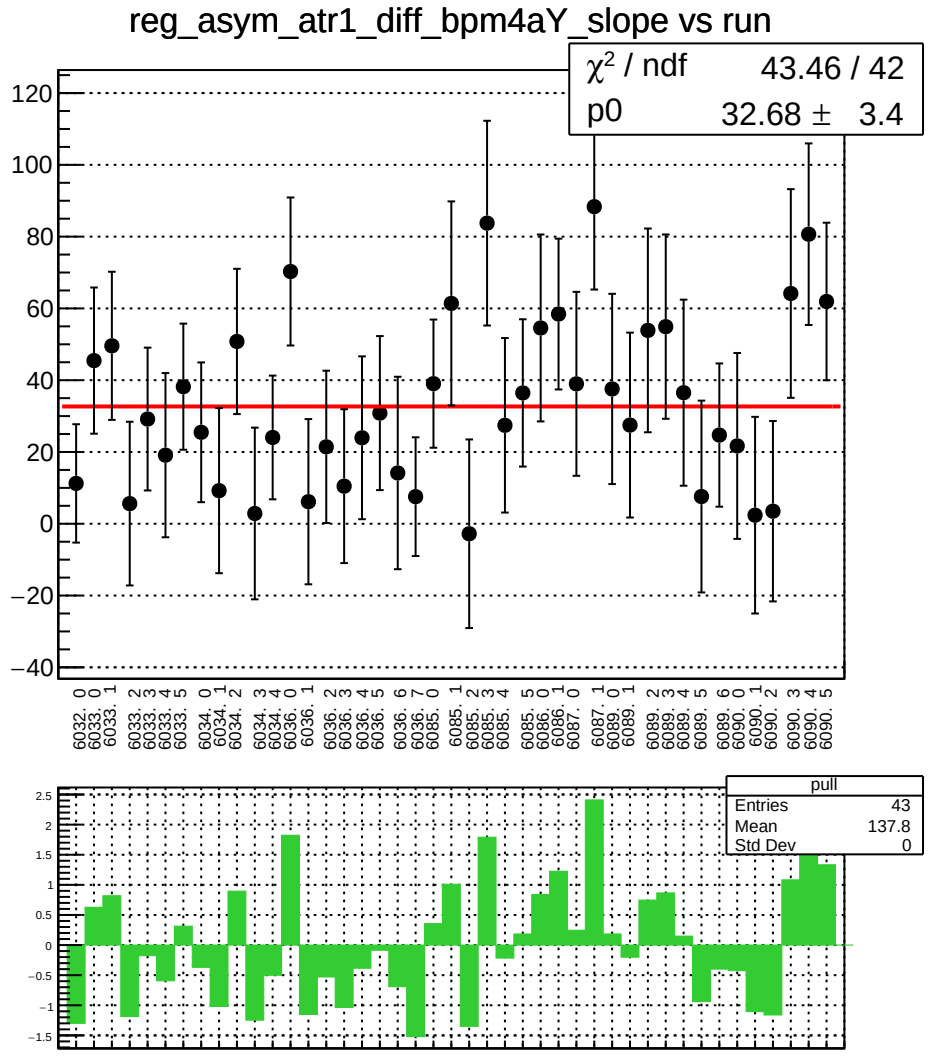

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 18.7 / 42
p0 358.5 ± 6.34
pull
Entries 43
Mean 107.4
Std Dev 0
pull1D
Entries 43
Mean 0.03503
Std Dev 0.6584

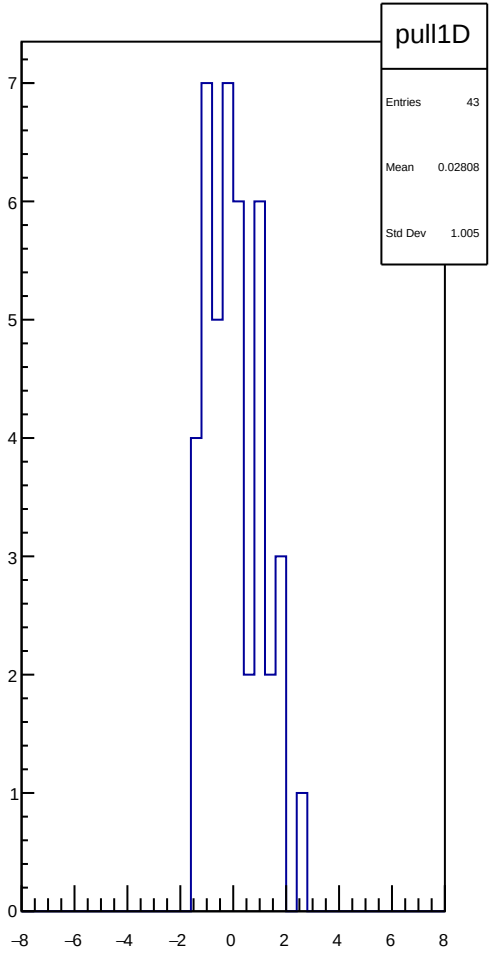

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 11.98 / 42
p0 94.88 ± 6.274
pull
Entries 43
Mean −19.11
Std Dev 0
pull1D
Entries 43
Mean 0.0113
Std Dev 0.5277

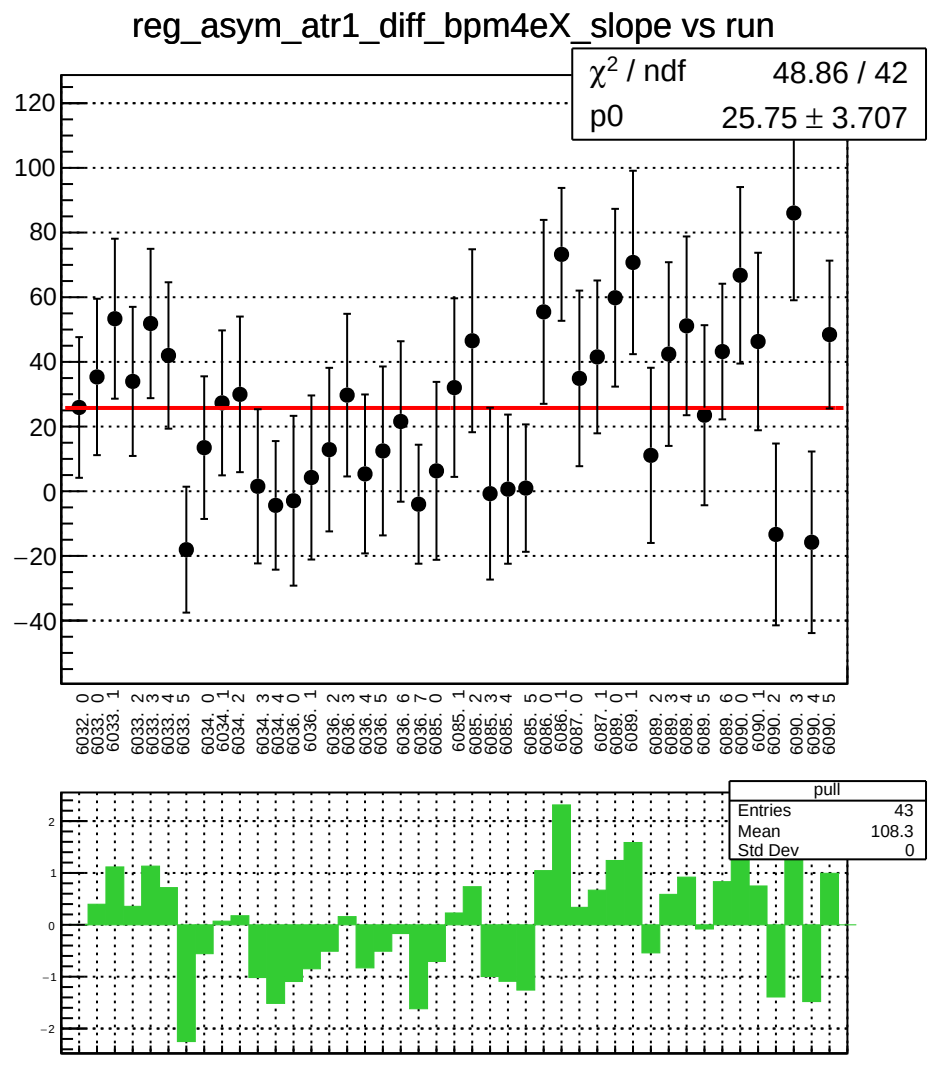

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 15.16 / 42
p0 −190.7 ± 0.5222
−182
−184
−186
−188
−190
−192
−194
−196
−198
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 323.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

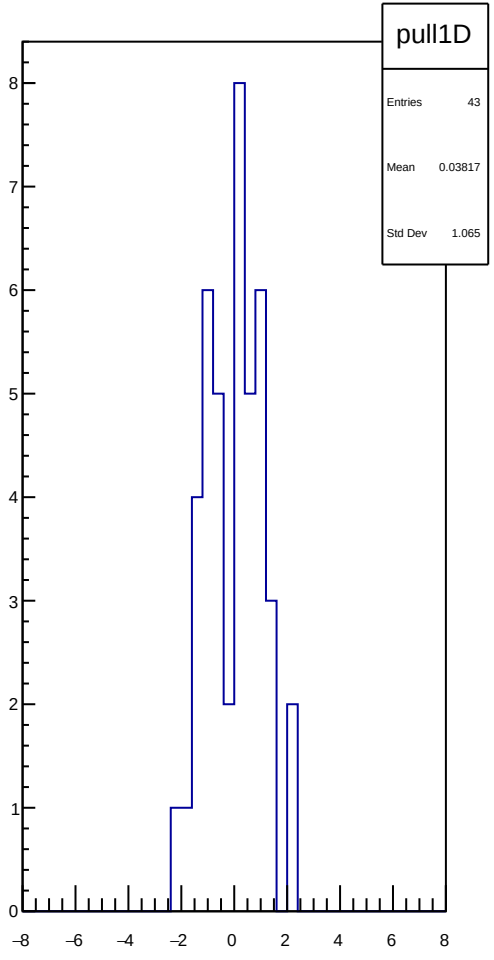

pull1D
Entries 43
Mean −0.01411
Std Dev 0.5936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

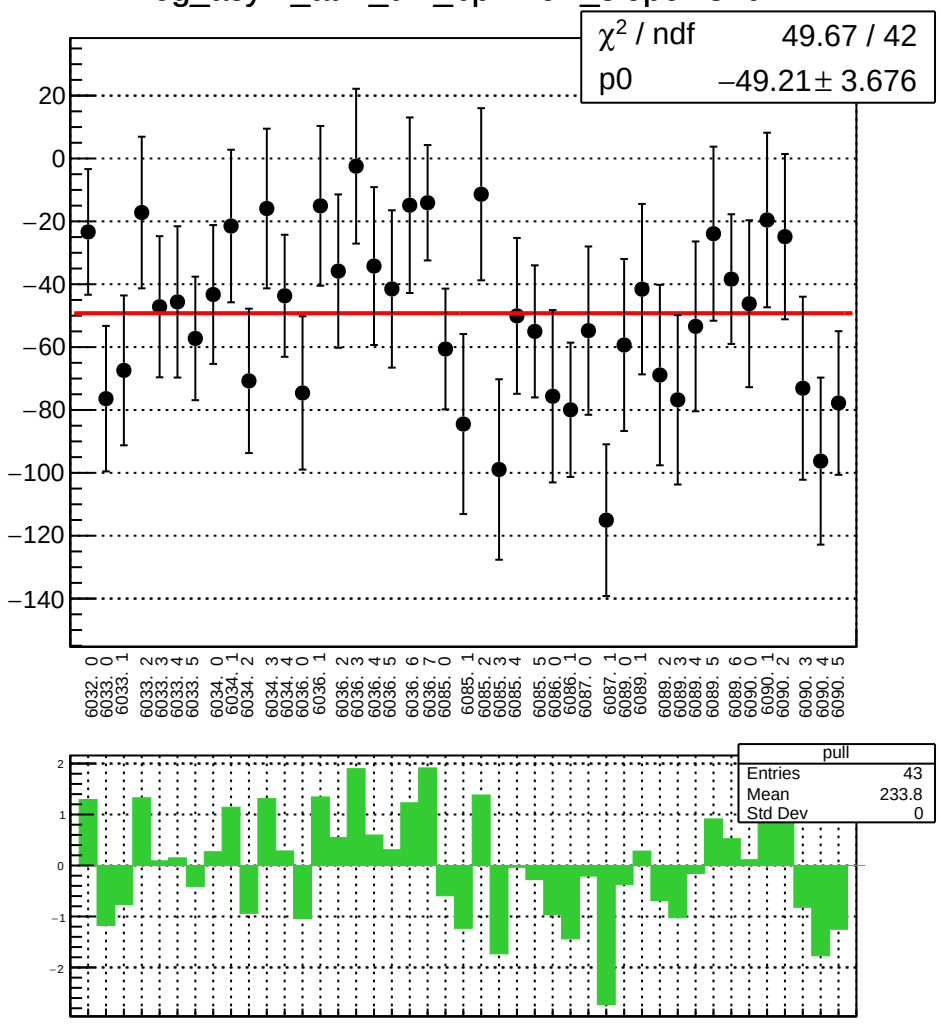

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 39.92 / 42
p0 −72.18 ± 3.351
0
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 15
Std Dev 58.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01113
Std Dev 0.9635
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

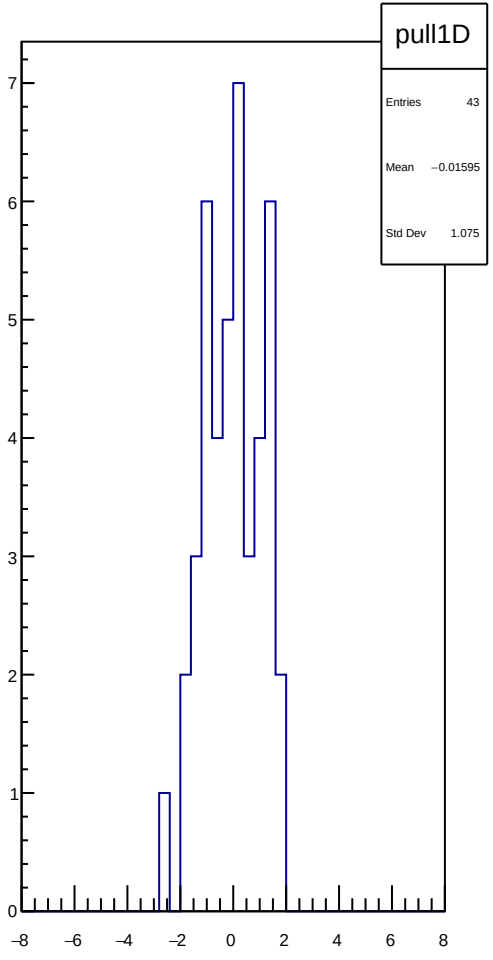

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 43.46 / 42
p0 32.68 ± 3.4
pull
Entries 43
Mean 137.8
Std Dev 0

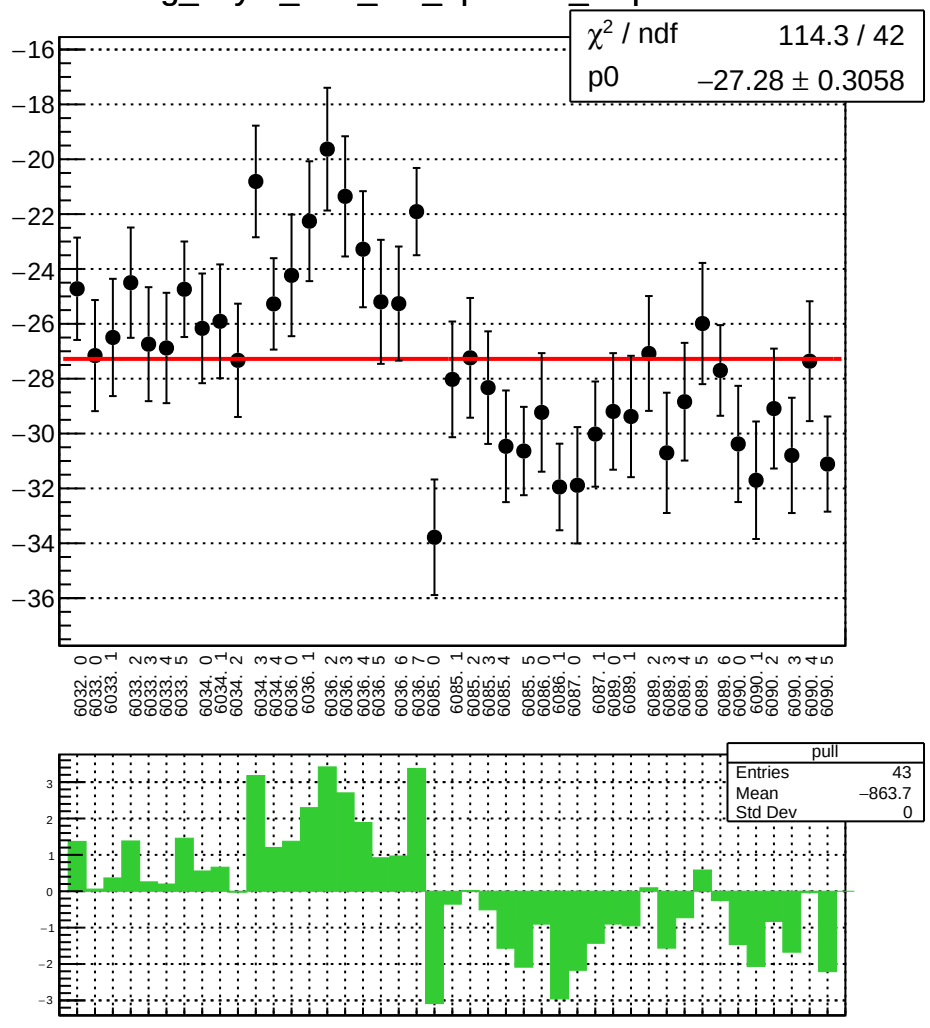

pull1D
Entries 43
Mean 0.02808
Std Dev 1.005

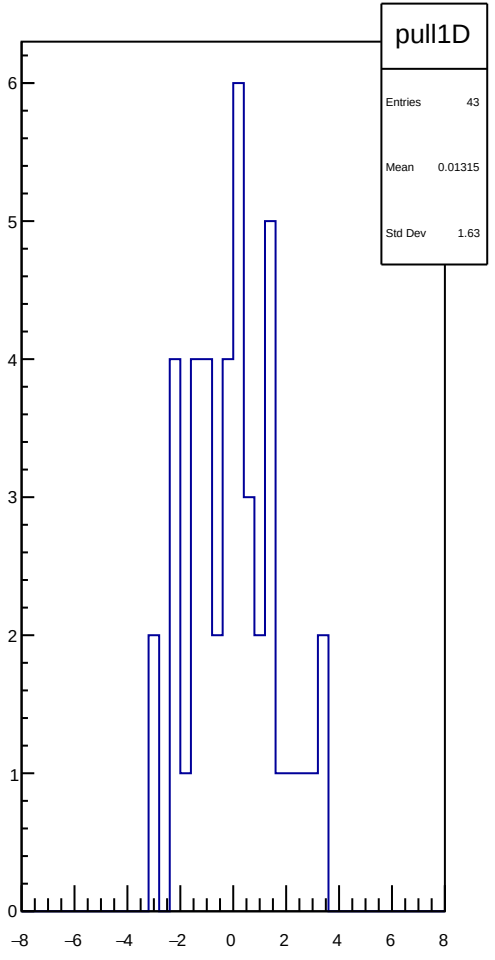

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 48.86 / 42
p0 25.75 ± 3.707
pull
Entries 43
Mean 108.3
Std Dev 0

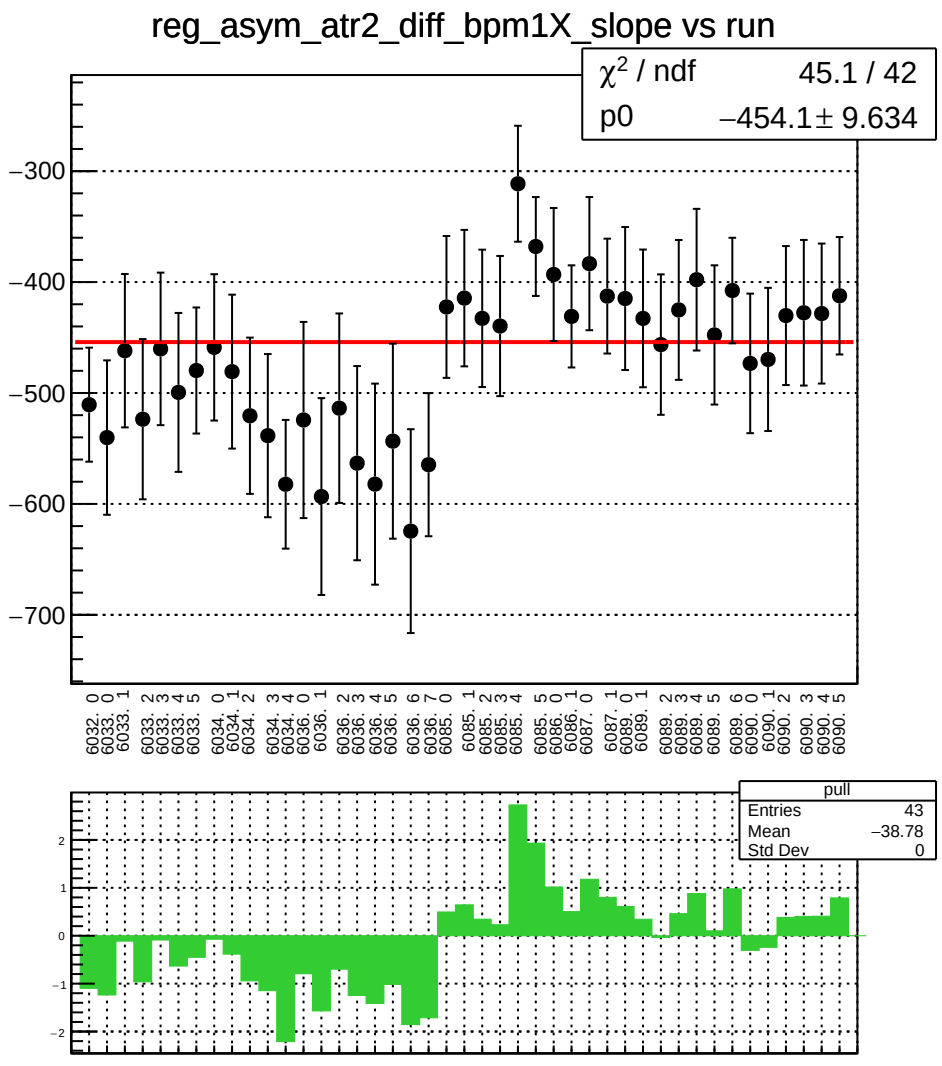

pull1D
Entries 43
Mean 0.03817
Std Dev 1.065

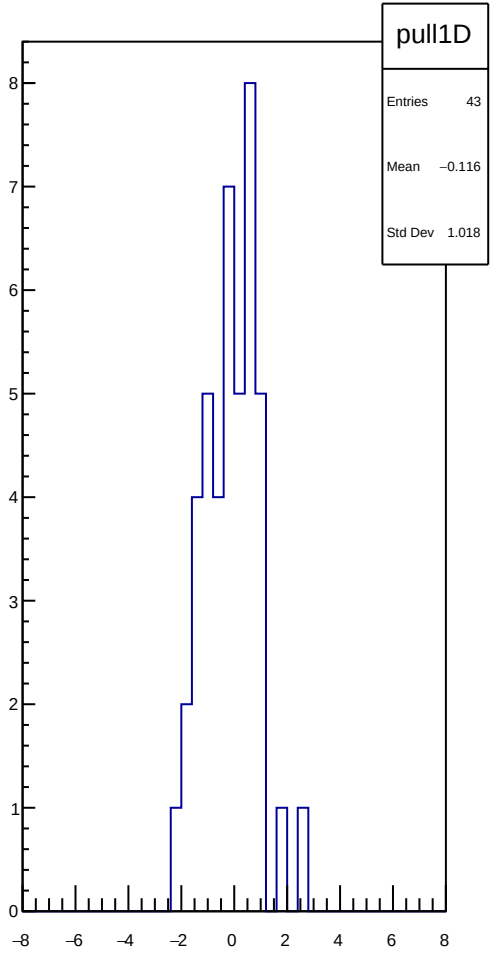

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 49.67 / 42
p0 −49.21 ± 3.676
pull
Entries 43
Mean 233.8
Std Dev 0

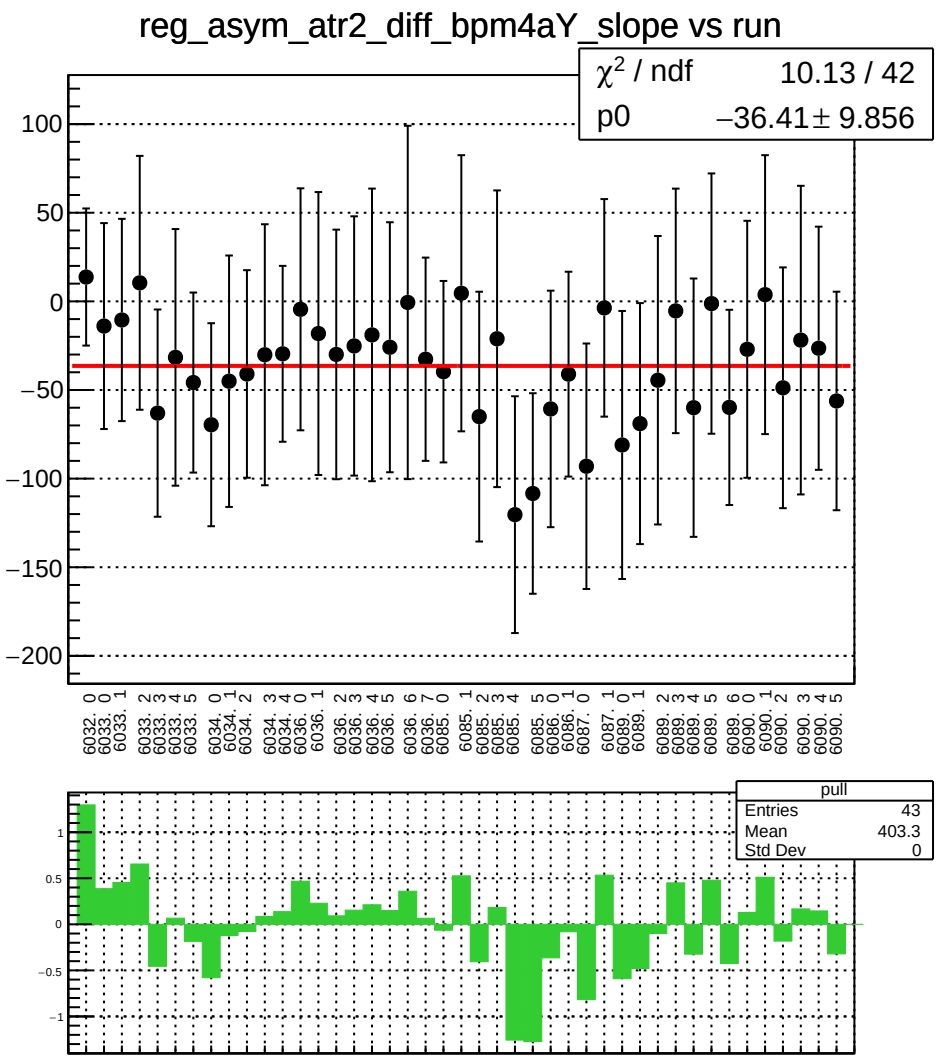

pull1D
Entries 43
Mean −0.01595
Std Dev 1.075

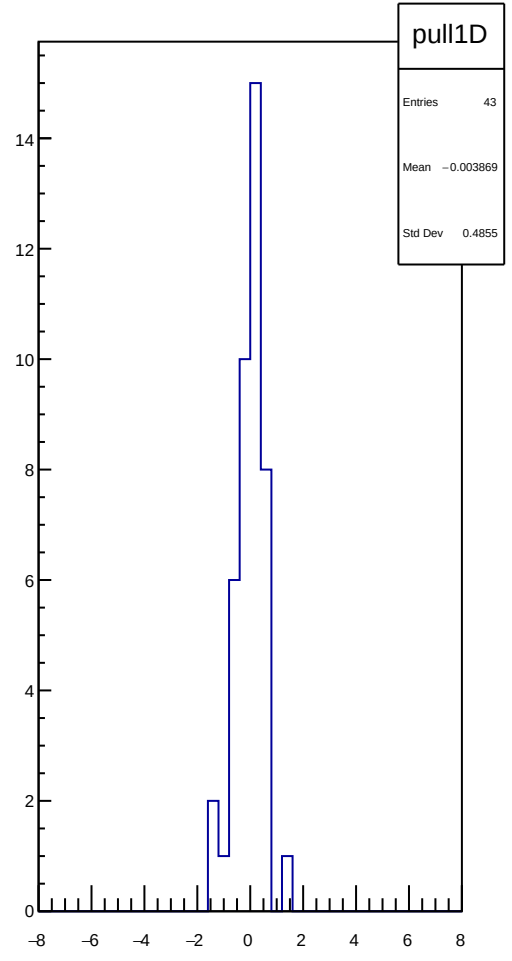

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 114.3 / 42
p0 −27.28 ± 0.3058
pull
Entries 43
Mean −863.7
Std Dev 0

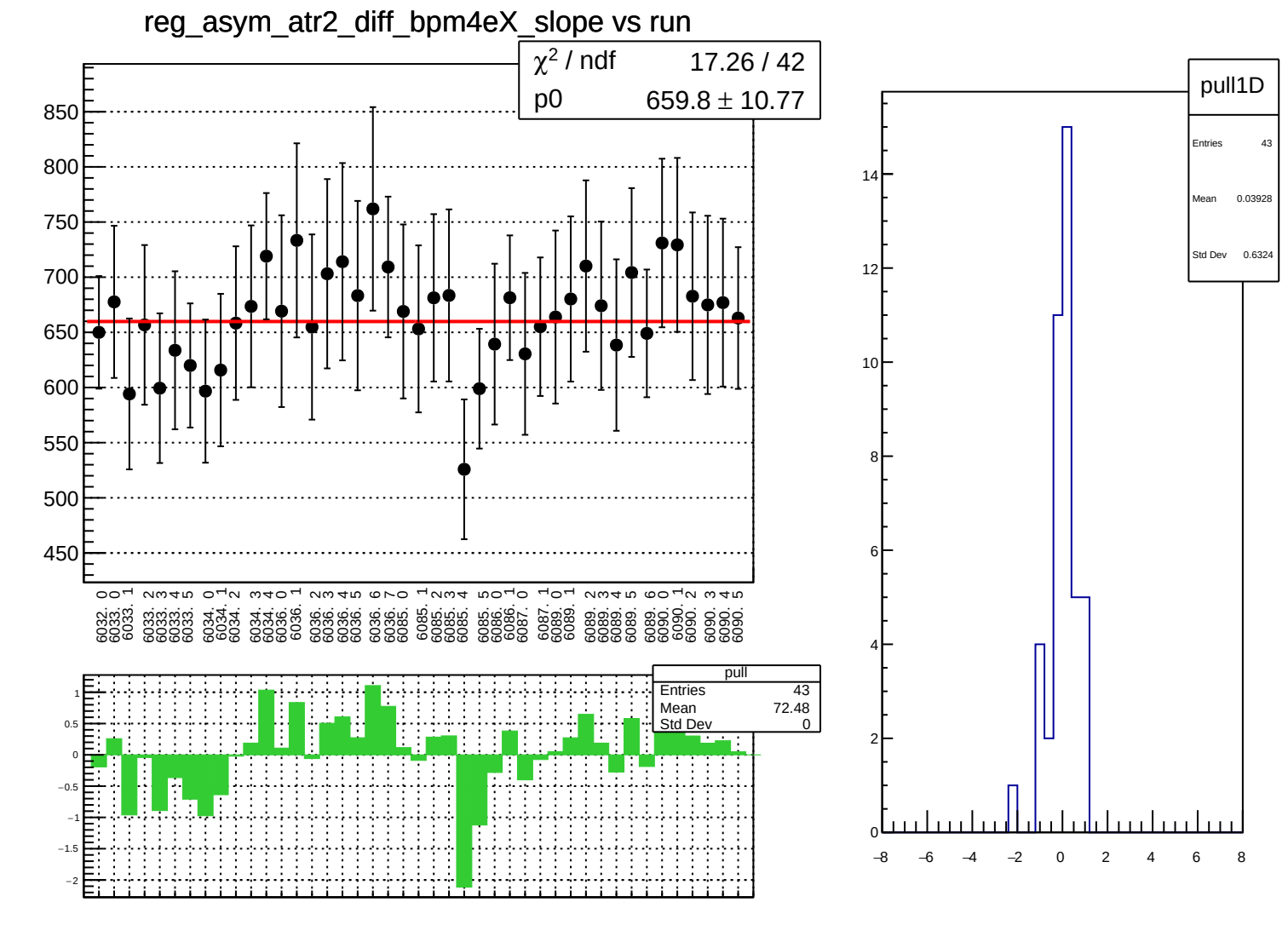

pull1D
Entries 43
Mean 0.01315
Std Dev 1.63

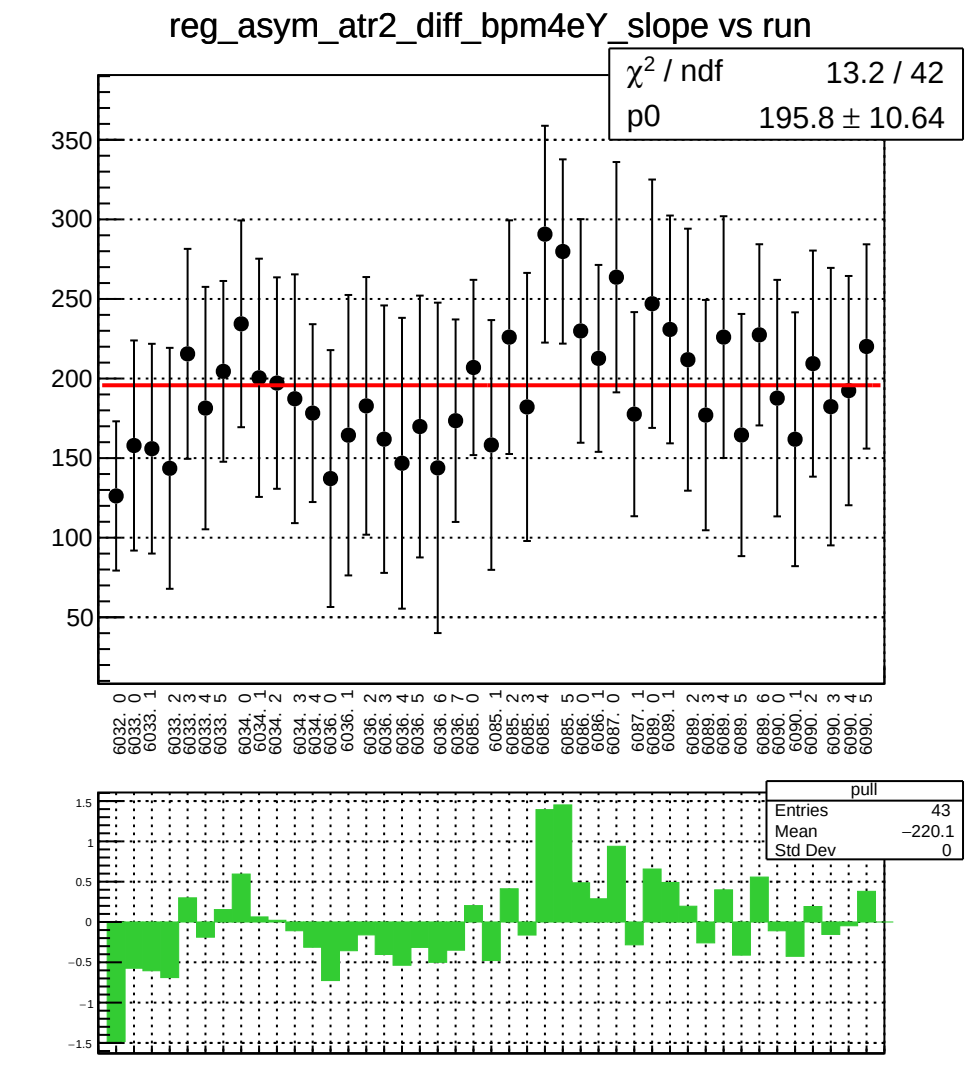

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 45.1 / 42
p0 −454.1± 9.634
−300
−400
−500
−600
−700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −38.78
Std Dev 0
2
1
0
−1
−2

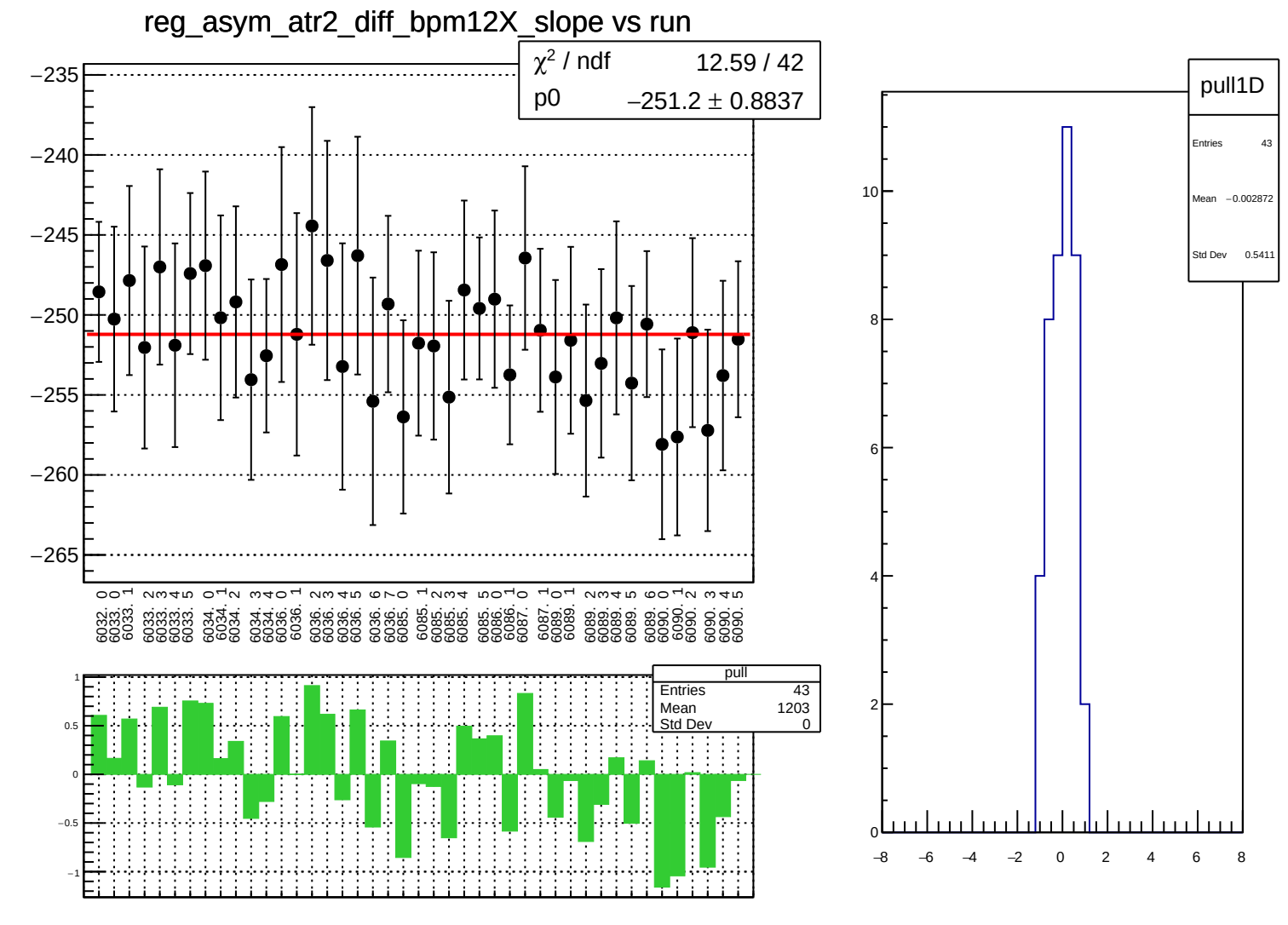

pull1D
Entries 43
Mean −0.116
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

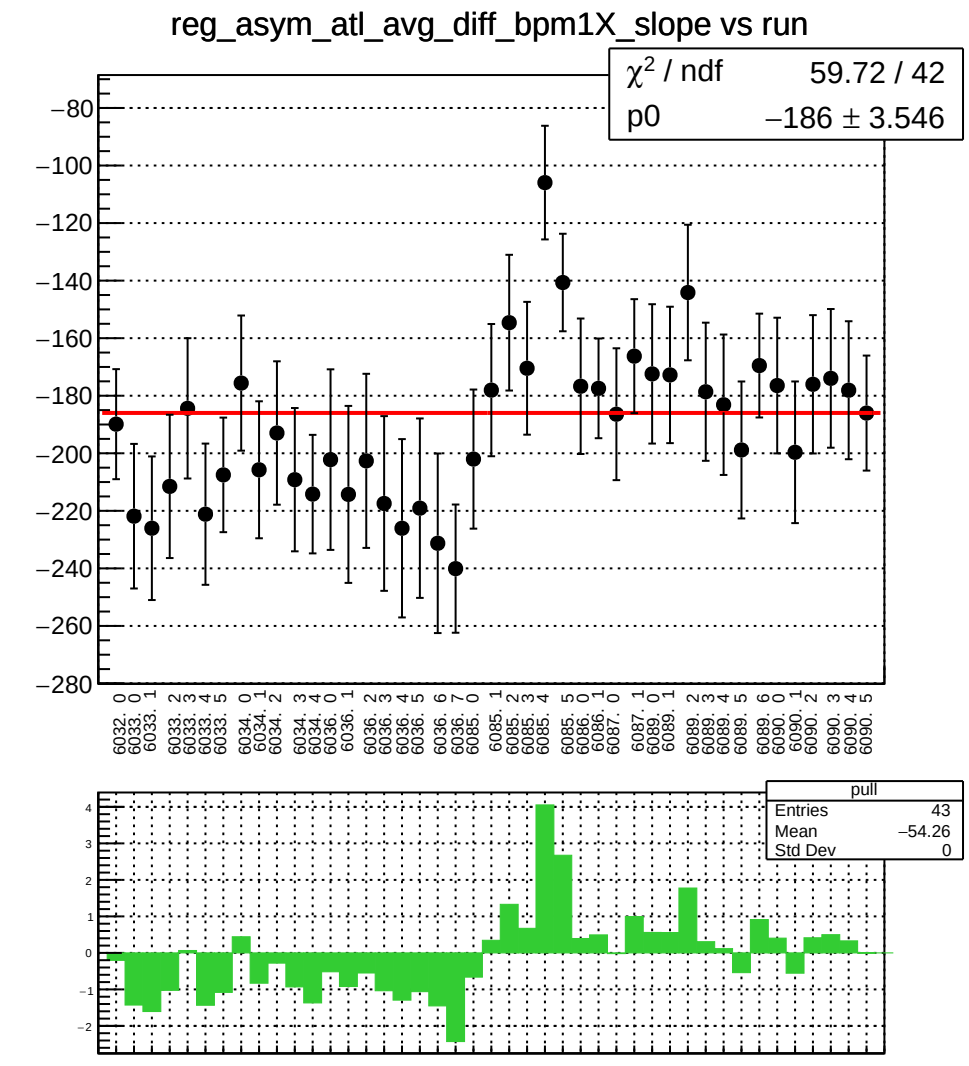

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.13 / 42
p0 −36.41 ± 9.856
pull
Entries 43
Mean 403.3
Std Dev 0

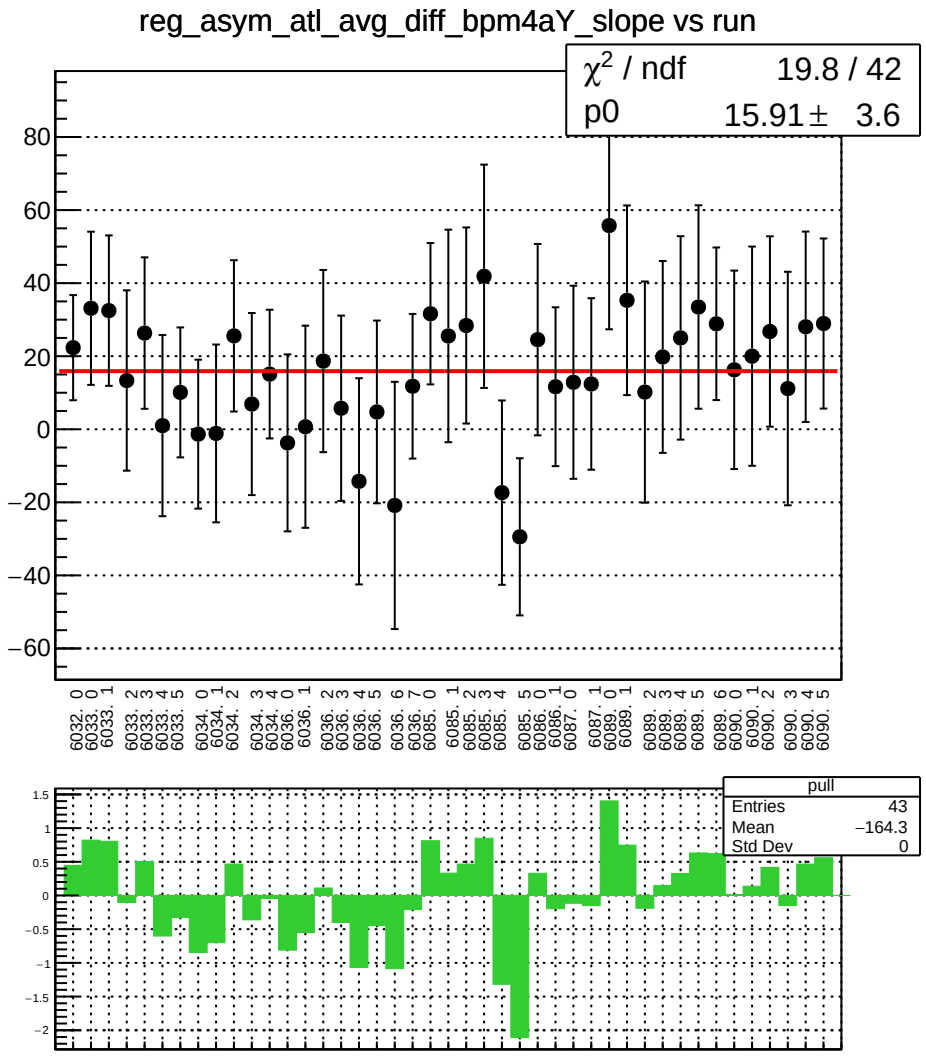

pull1D
Entries 43
Mean −0.003869
Std Dev 0.4855

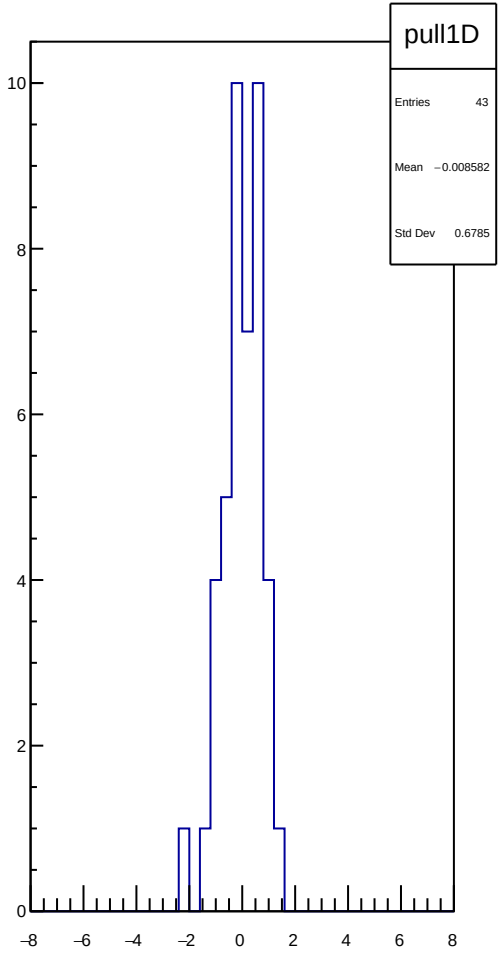

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 17.26 / 42
p0 659.8 ± 10.77
pull
Entries 43
Mean 72.48
Std Dev 0
pull1D
Entries 43
Mean 0.03928
Std Dev 0.6324

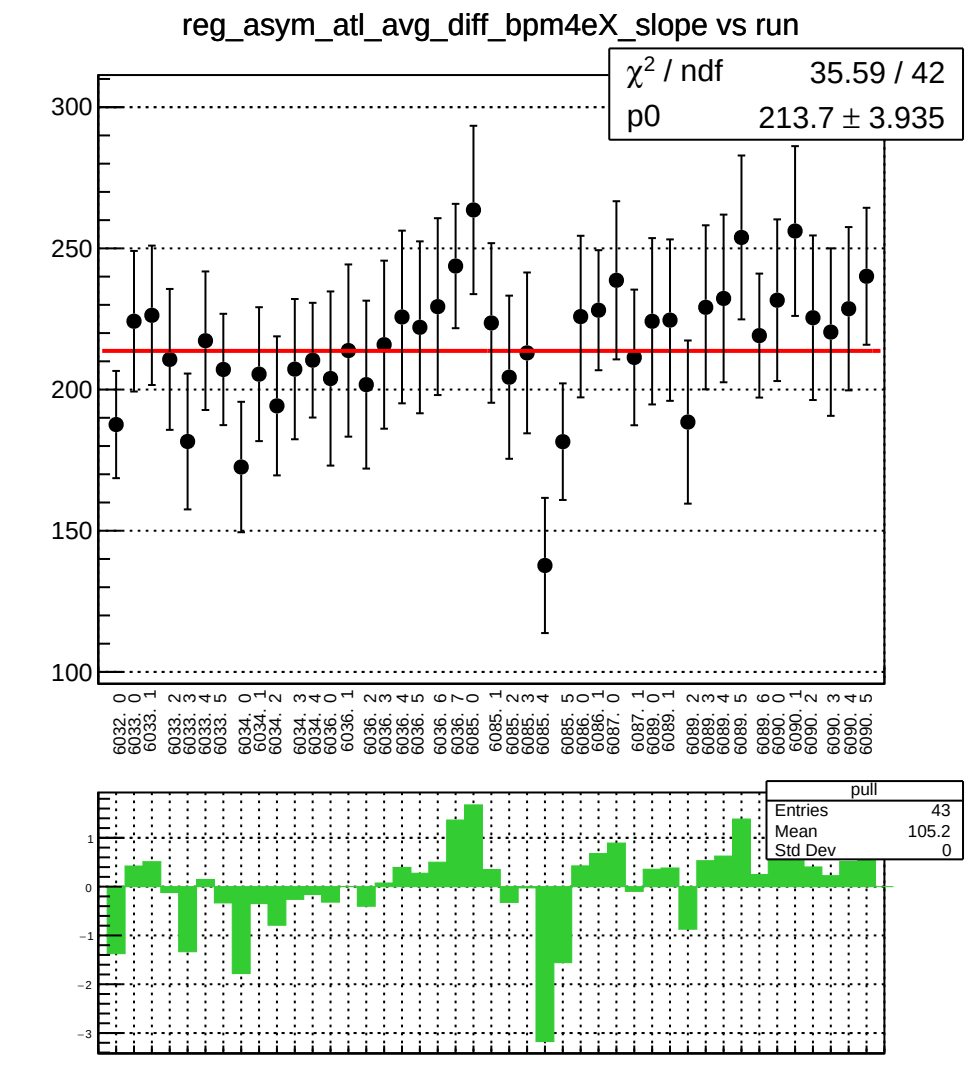

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 13.2 / 42
p0 195.8 ± 10.64
350
300
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −220.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01065
Std Dev 0.5539
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

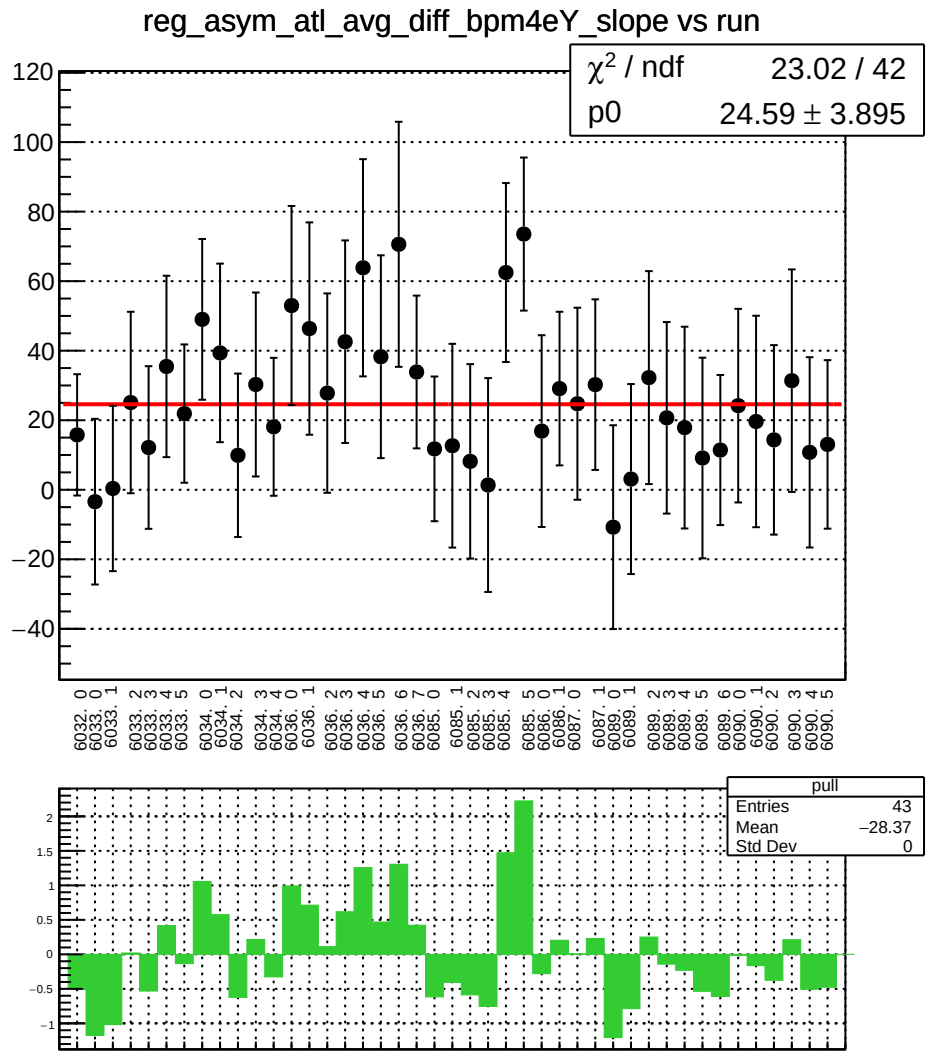

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 12.59 / 42
p0 −251.2 ± 0.8837
−235
−240
−245
−250
−255
−260
−265
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1203
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.002872
Std Dev 0.5411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

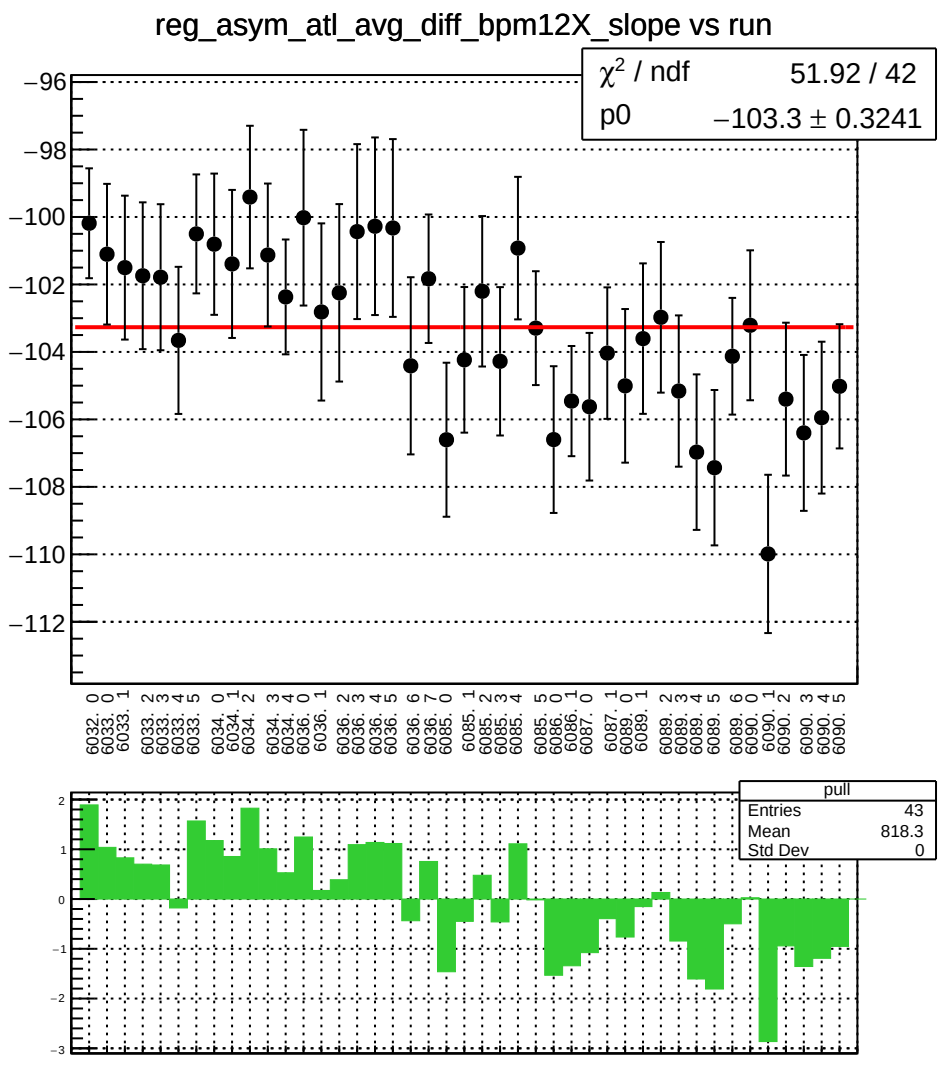

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 59.72 / 42
p0 −186 ± 3.546
pull
Entries 43
Mean −54.26
Std Dev 0
pull1D
Entries 43
Mean −0.09046
Std Dev 1.175

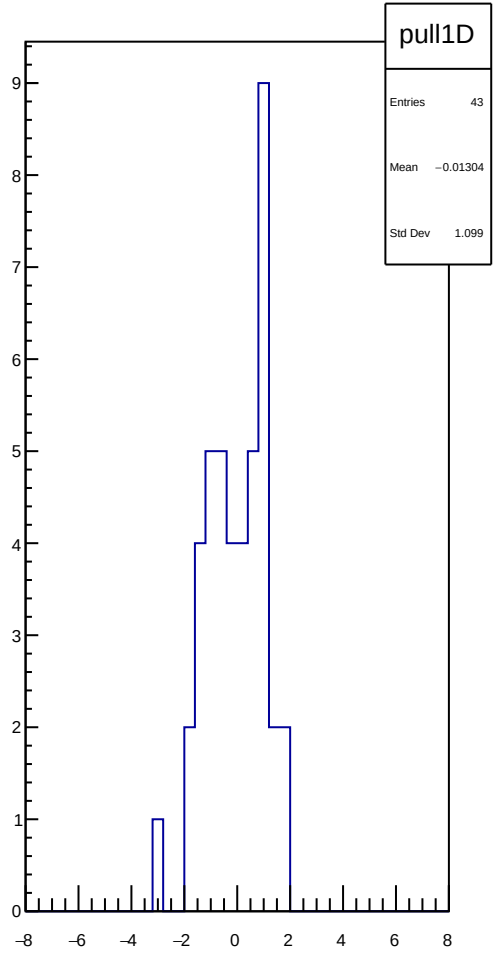

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.8 / 42
p0 15.91 ± 3.6
pull
Entries 43
Mean −164.3
Std Dev 0

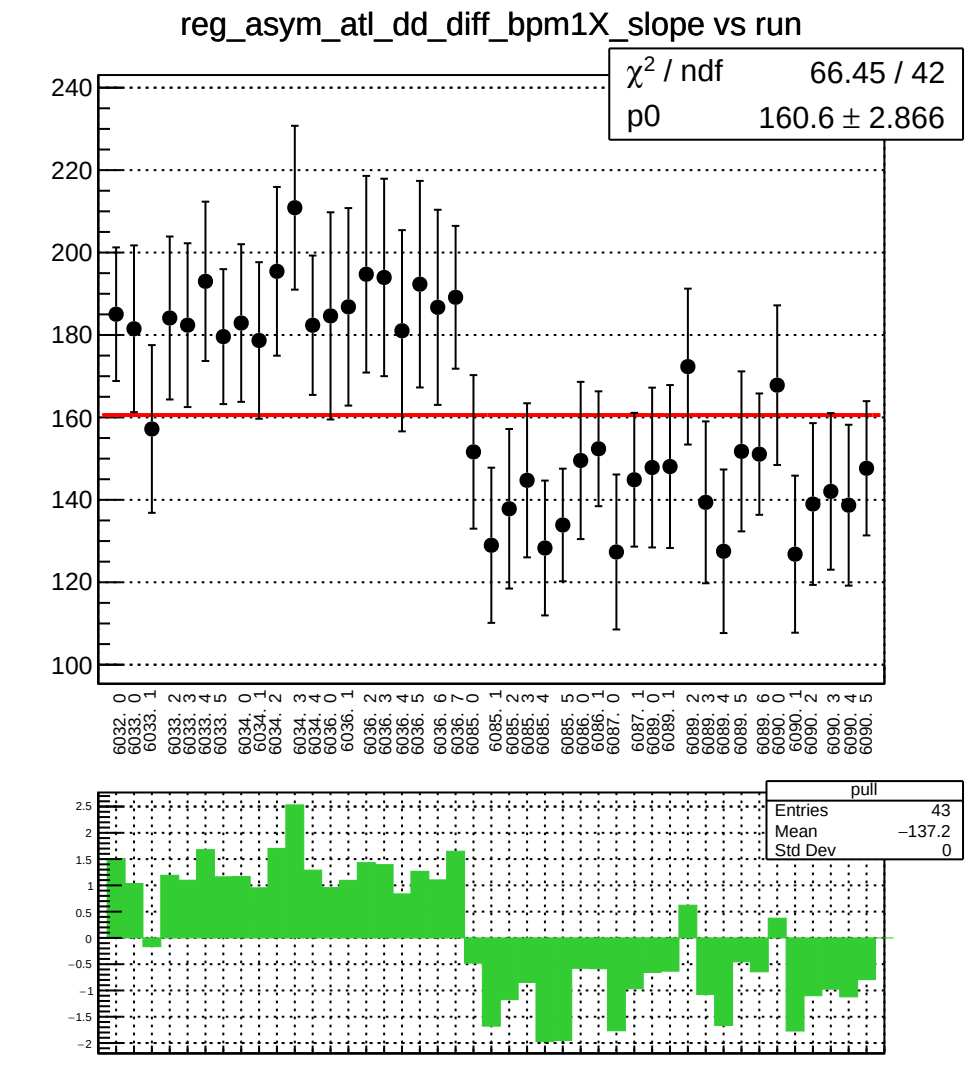

pull1D
Entries 43
Mean −0.008582
Std Dev 0.6785

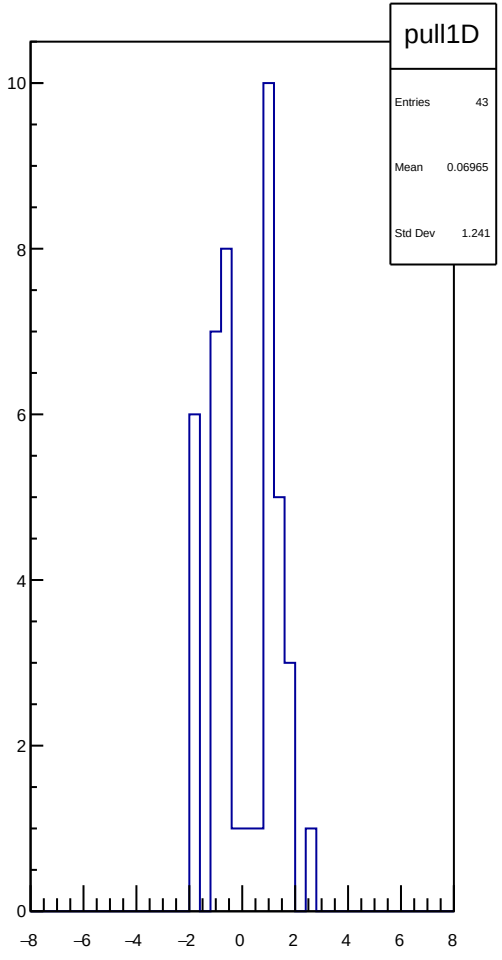

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.59 / 42
p0 213.7 ± 3.935
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 105.2
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.05203
Std Dev 0.9083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

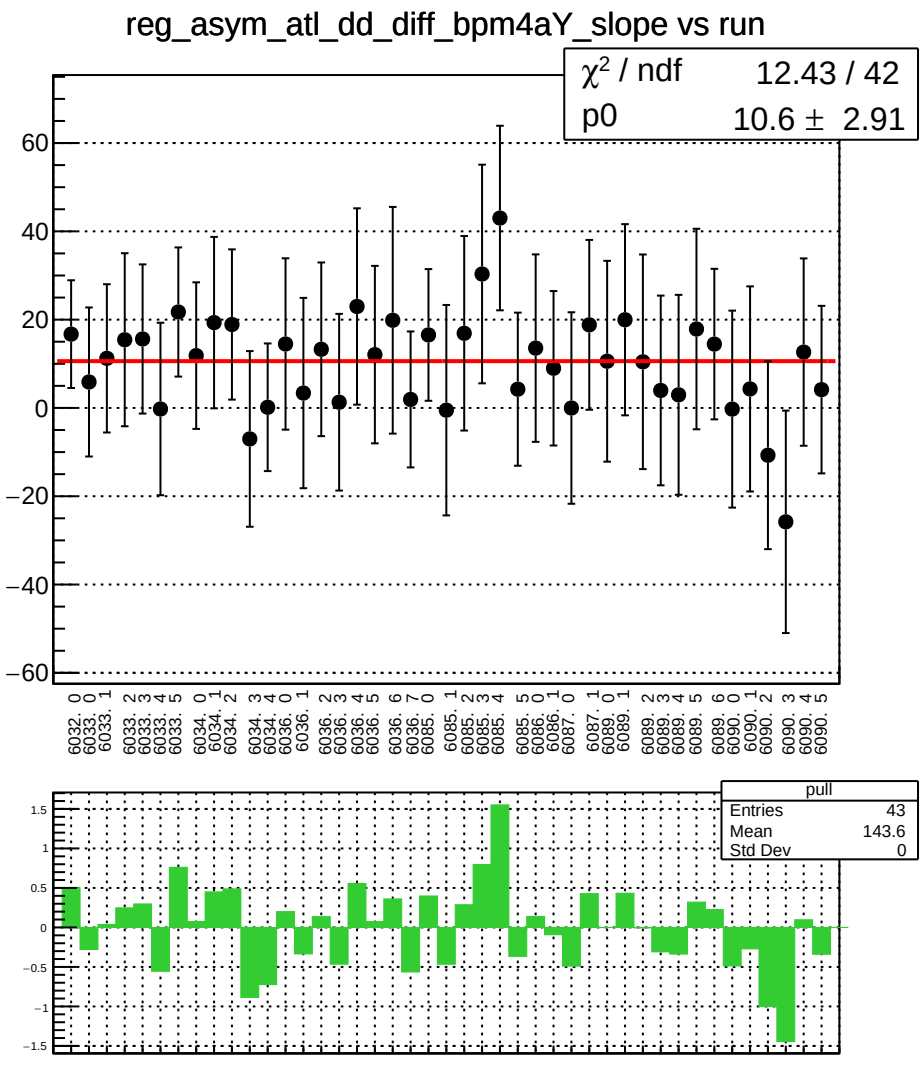

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.02 / 42
p0 24.59 ± 3.895
pull
Entries 43
Mean −28.37
Std Dev 0
pull1D
Entries 43
Mean 0.01773
Std Dev 0.7314

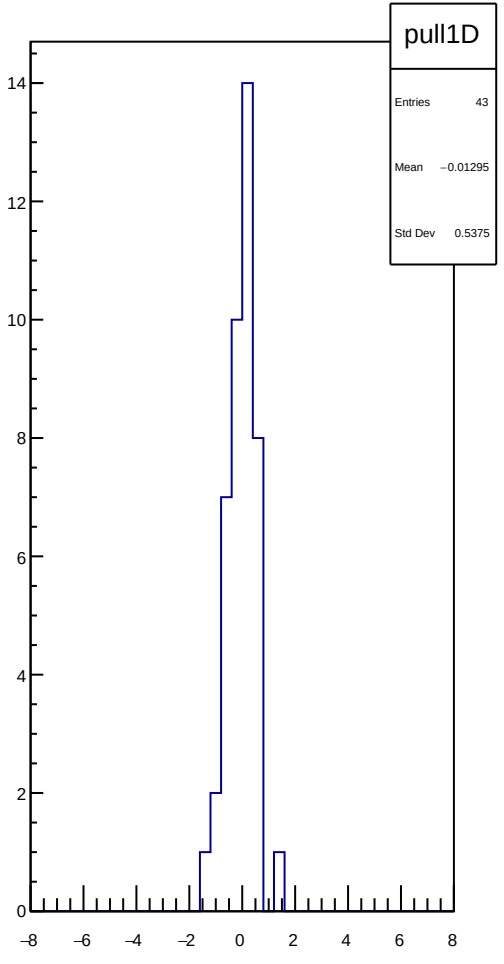

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 51.92 / 42
p0 −103.3 ± 0.3241
pull
Entries 43
Mean 818.3
Std Dev 0

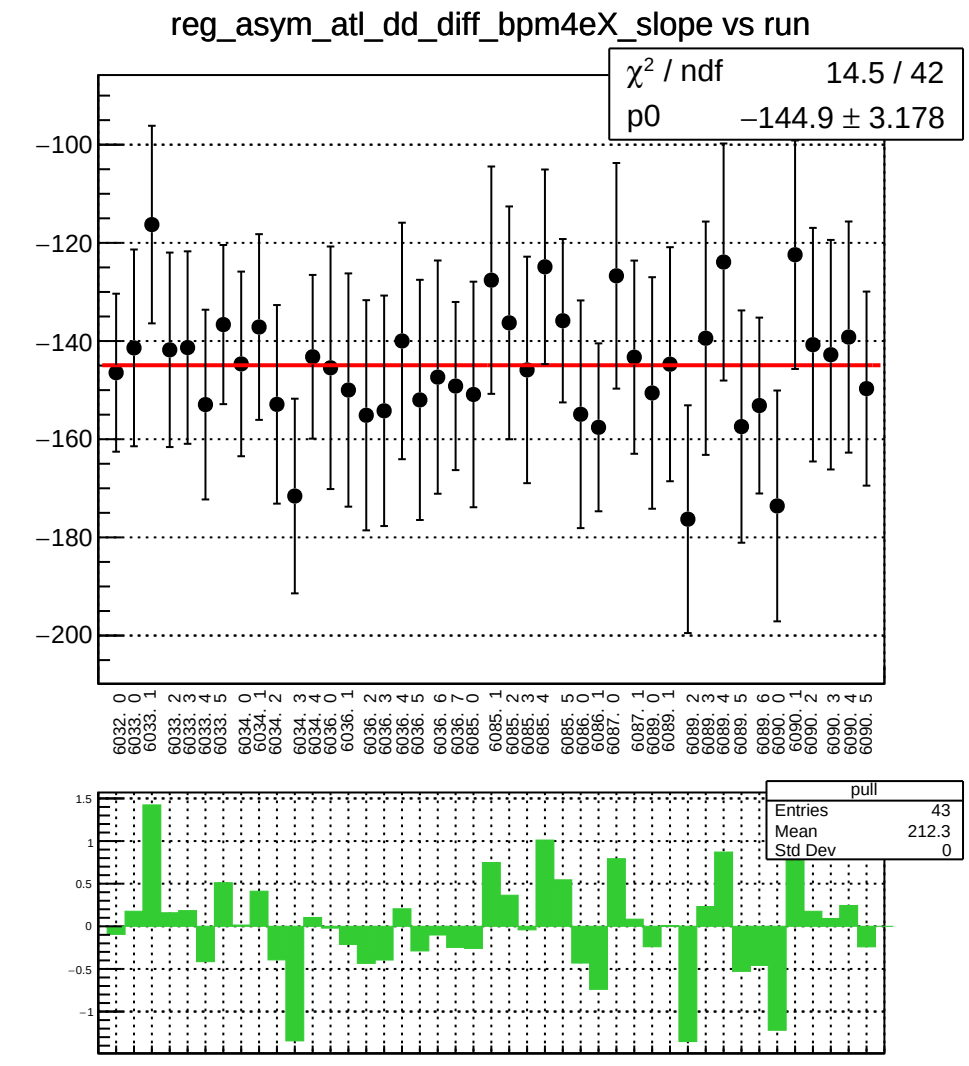

pull1D
Entries 43
Mean −0.01304
Std Dev 1.099

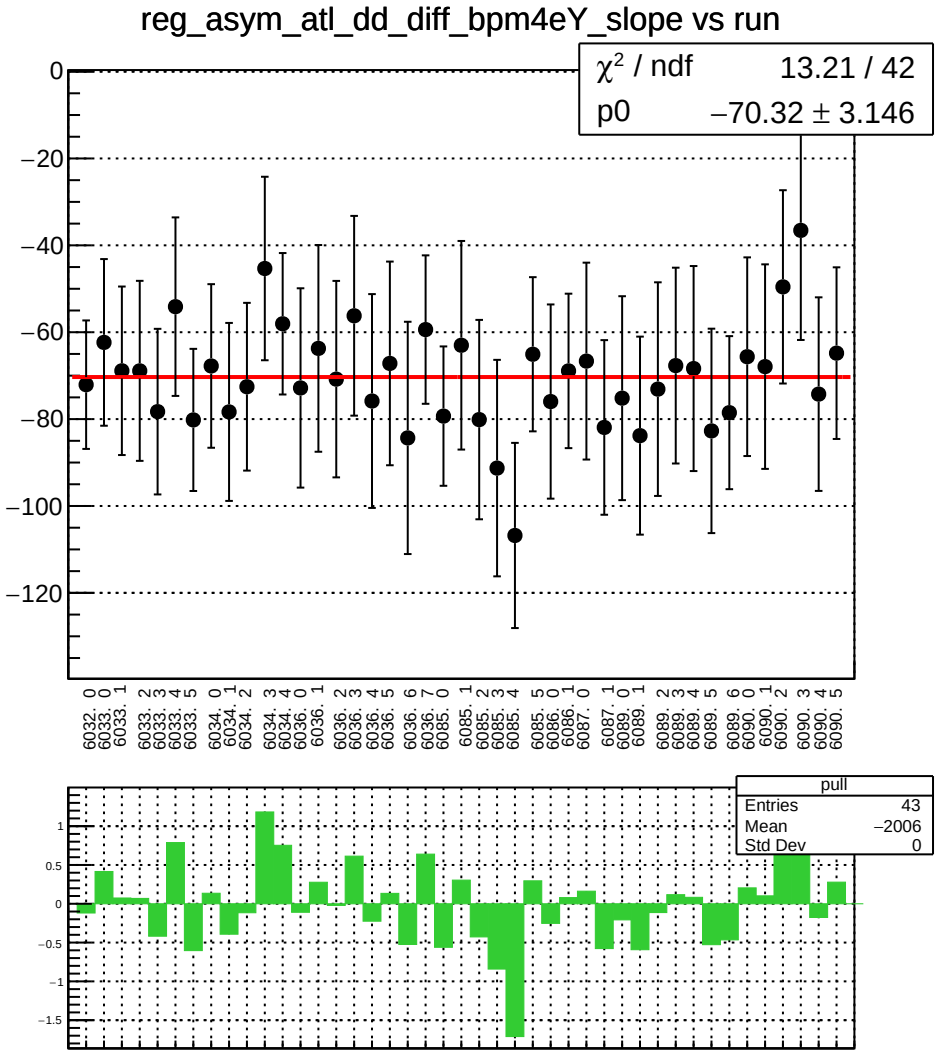

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 66.45 / 42
p0 160.6 ± 2.866
240
220
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −137.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

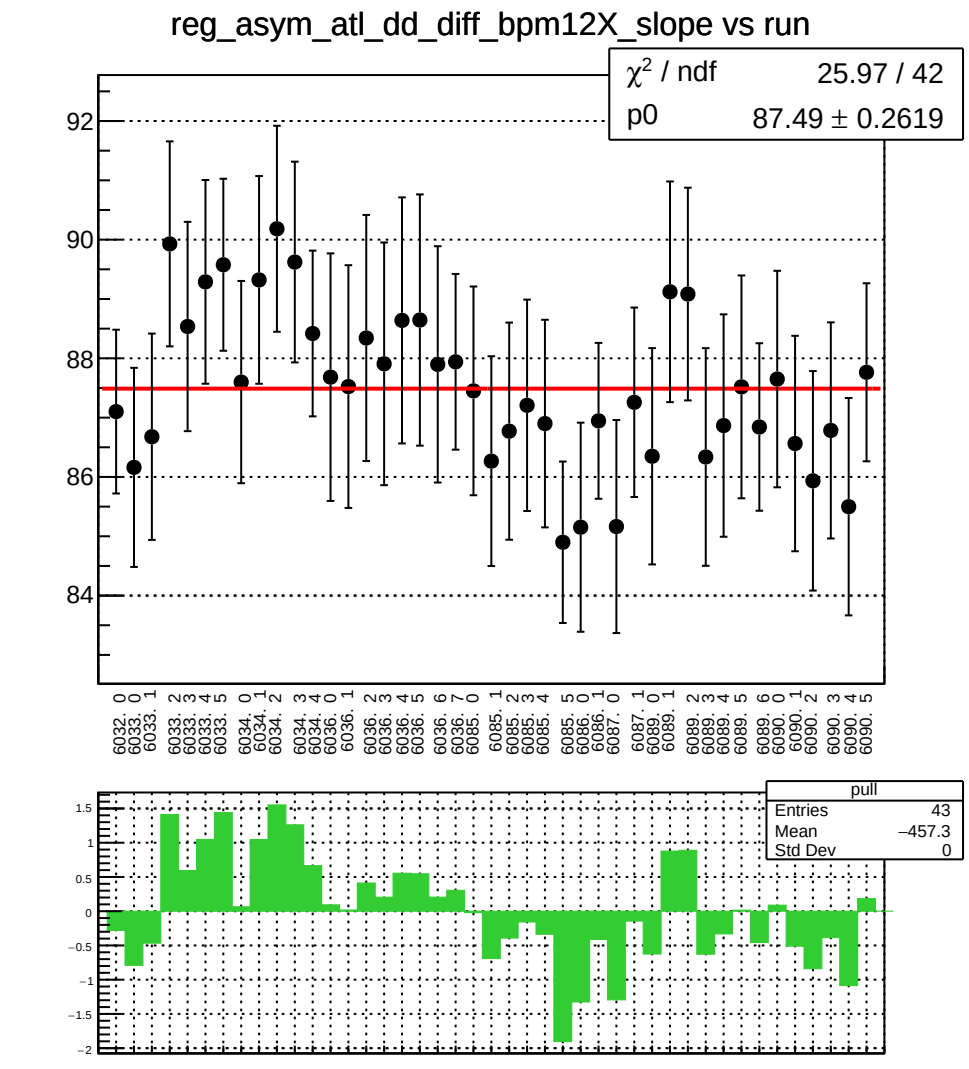

pull1D
Entries 43
Mean 0.06965
Std Dev 1.241
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

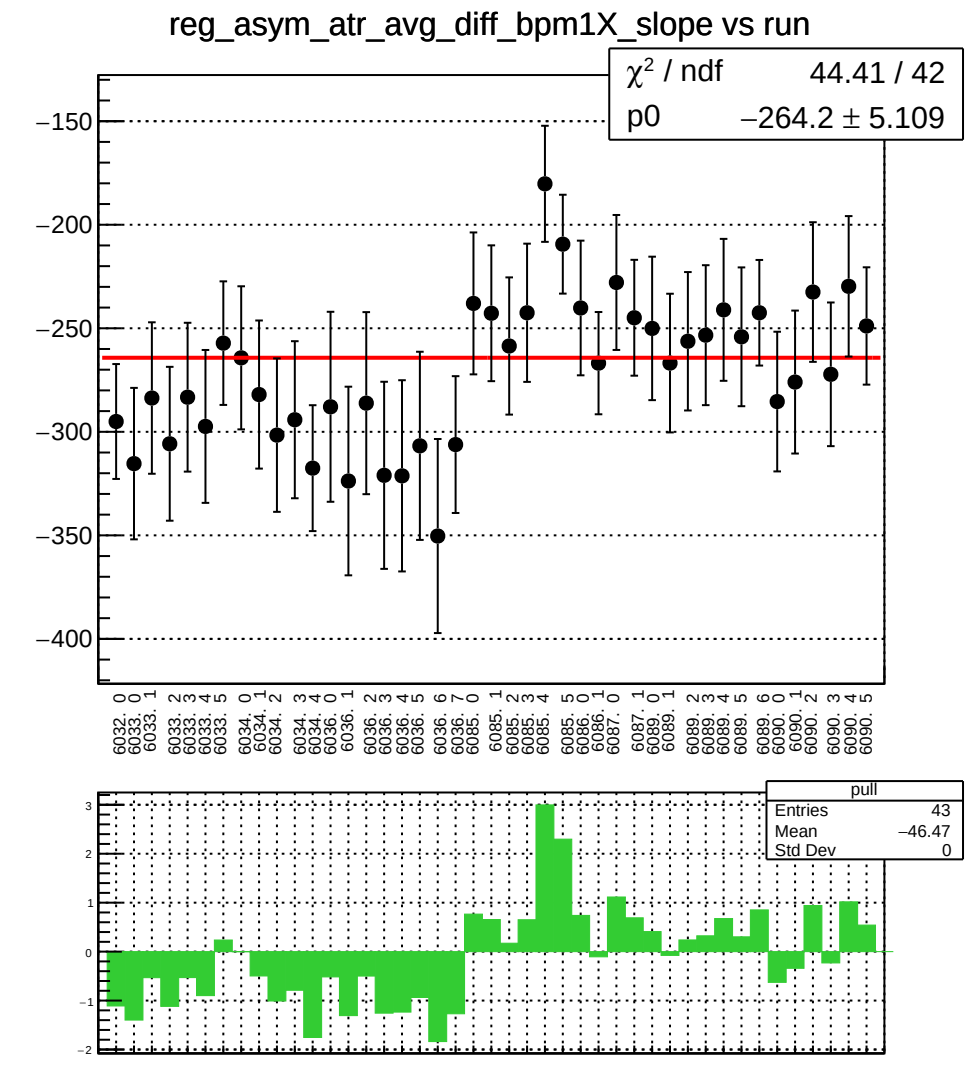

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 42
p0 10.6 ± 2.91
pull
Entries 43
Mean 143.6
Std Dev 0

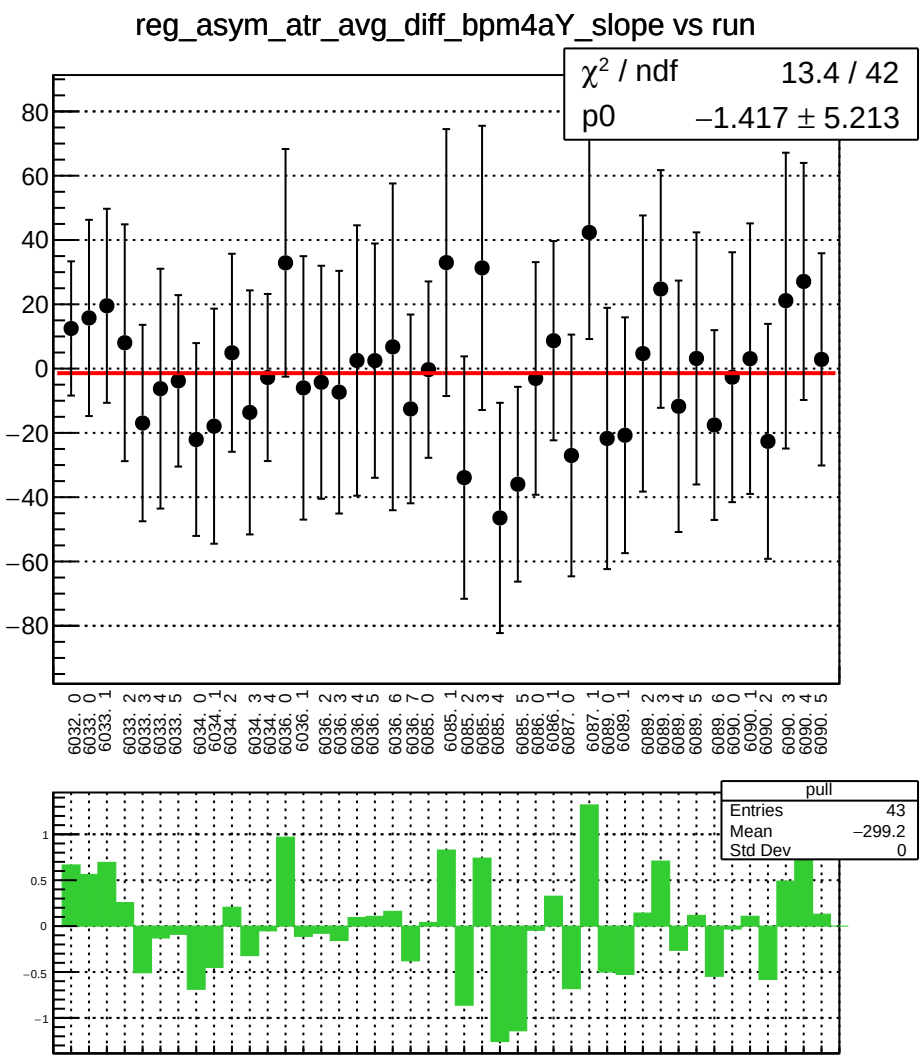

pull1D
Entries 43
Mean −0.01295
Std Dev 0.5375

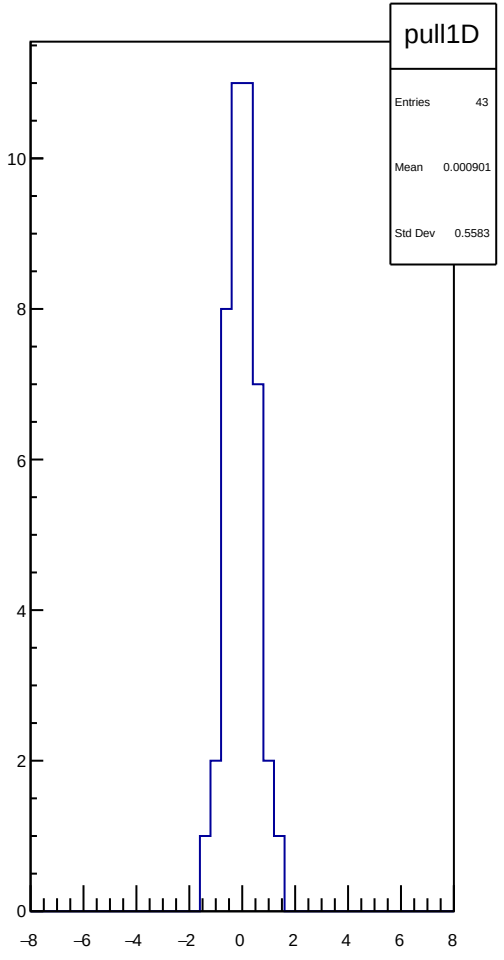

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.5 / 42
p0 −144.9 ± 3.178
−100
−120
−140
−160
−180
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 212.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.002987
Std Dev 0.5807
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

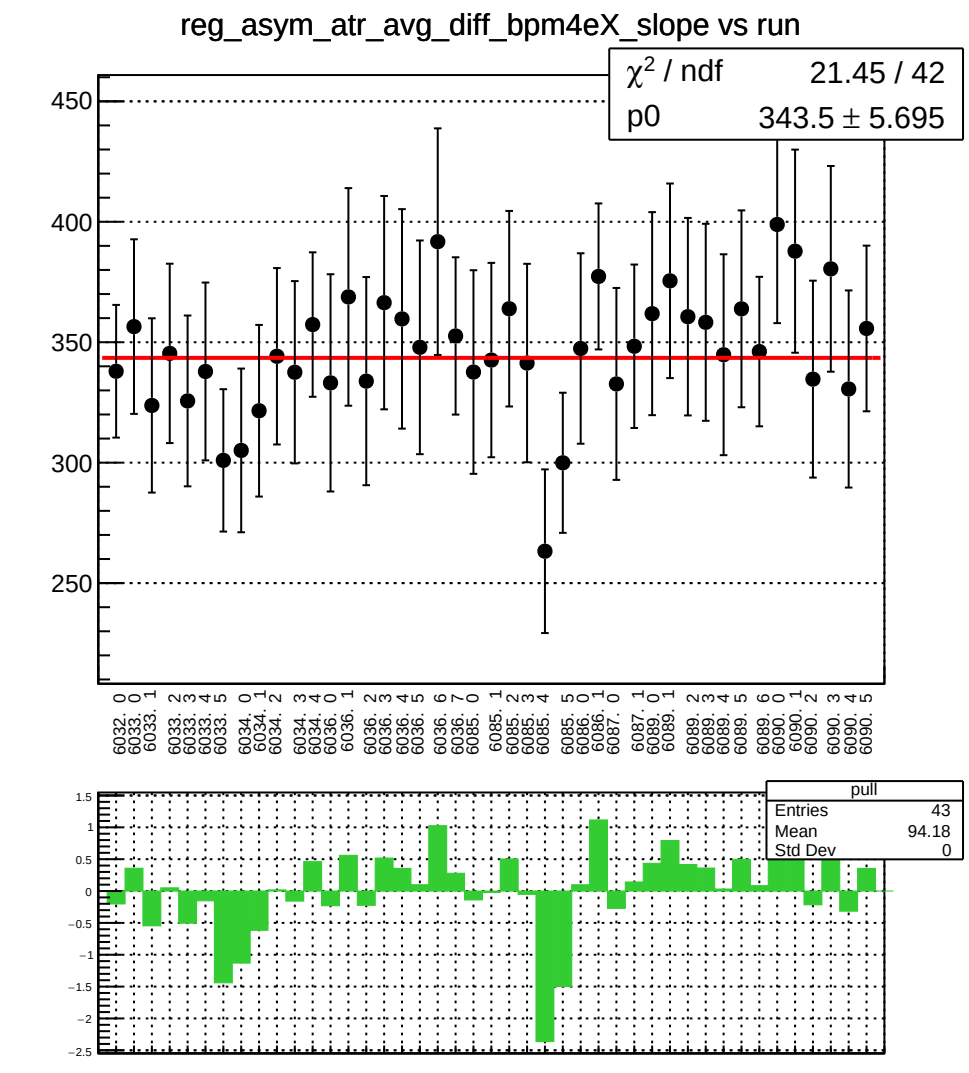

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.21 / 42
p0 −70.32 ± 3.146
pull
Entries 43
Mean −2006
Std Dev 0
pull1D
Entries 43
Mean 6.769e−05
Std Dev 0.5543

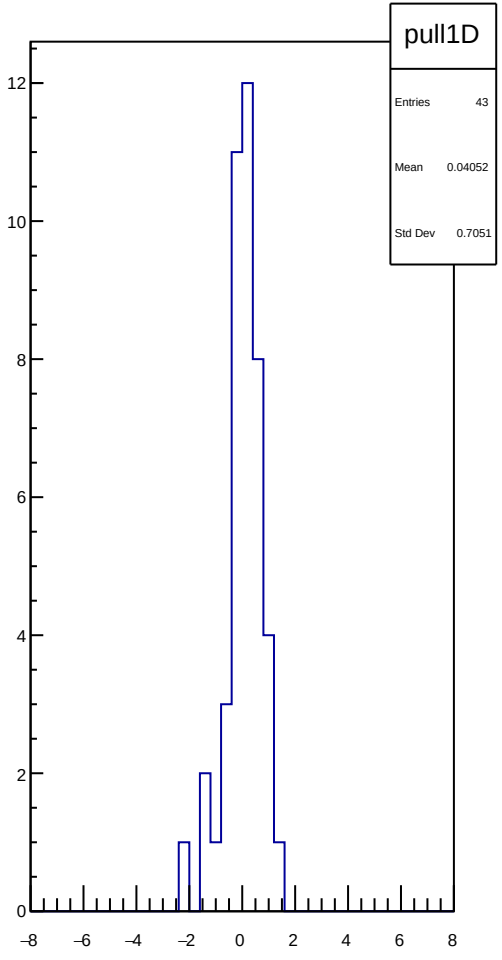

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 25.97 / 42
p0 87.49 ± 0.2619
92
90
88
86
84
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −457.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.00923
Std Dev 0.777
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

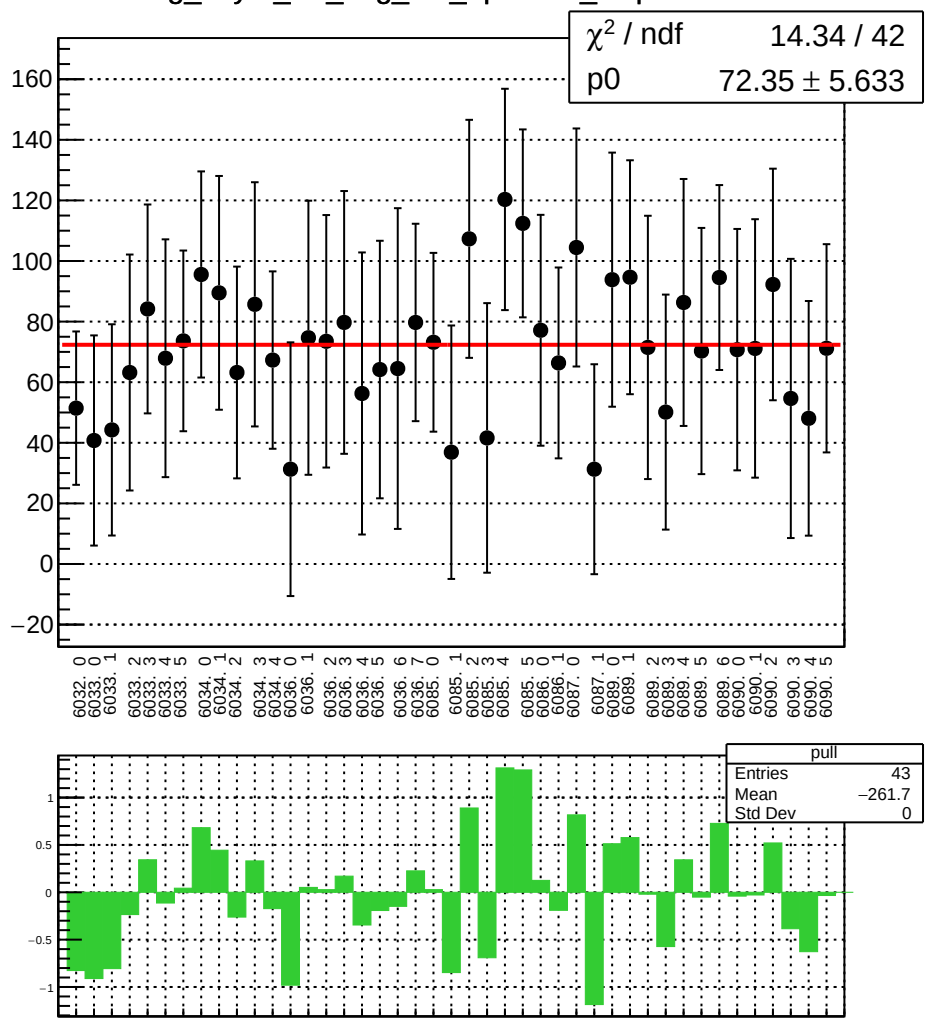

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 44.41 / 42
p0 −264.2 ± 5.109
−150
−200
−250
−300
−350
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −46.47
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.09893
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

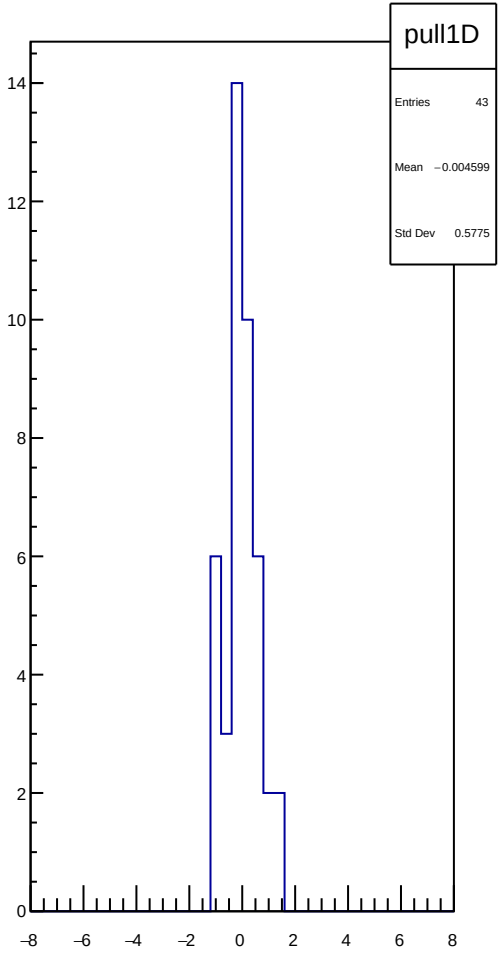

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.4 / 42
p0 −1.417 ± 5.213
pull
Entries 43
Mean −299.2
Std Dev 0

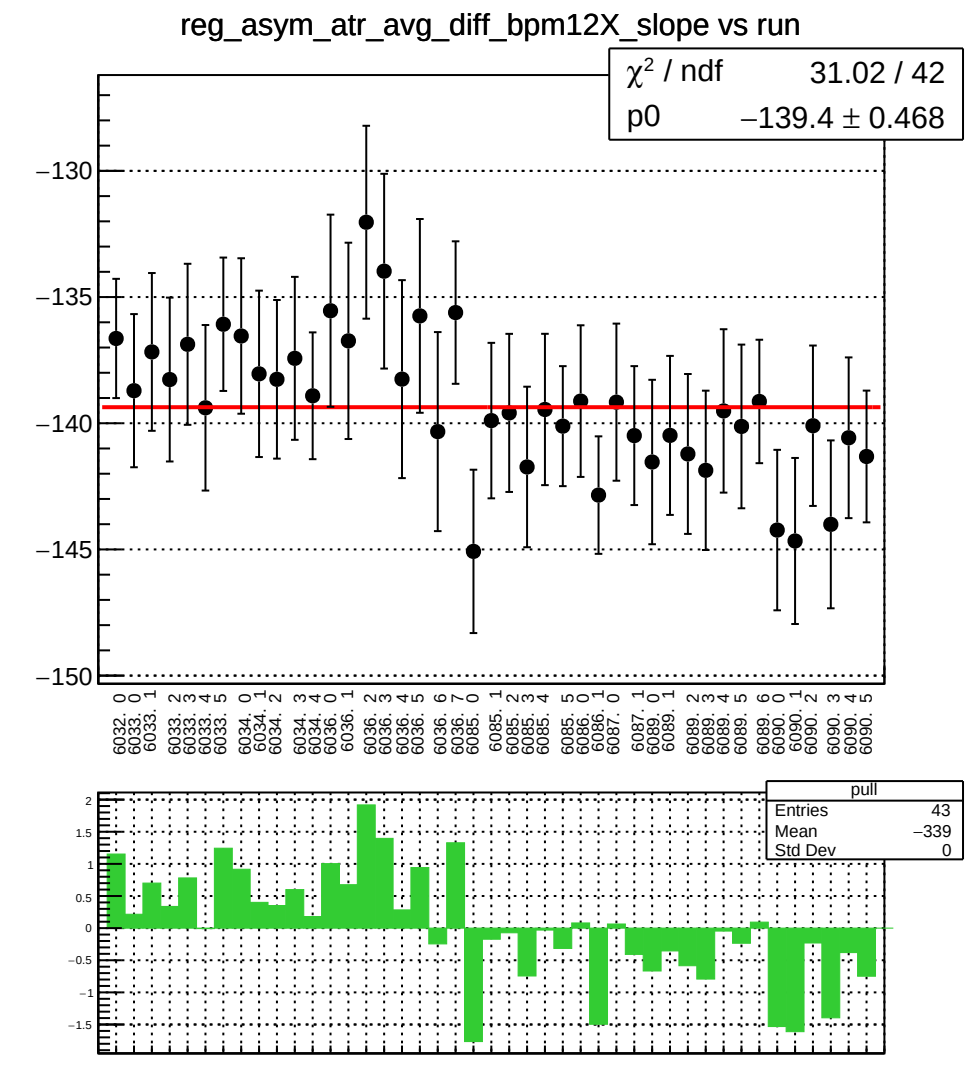

pull1D
Entries 43
Mean 0.000901
Std Dev 0.5583

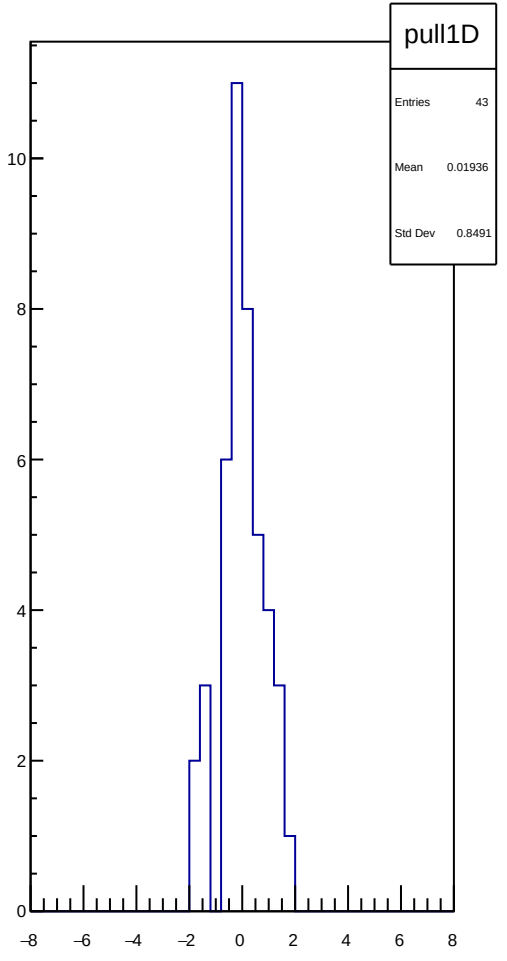

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.45 / 42
p0 343.5 ± 5.695
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 94.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

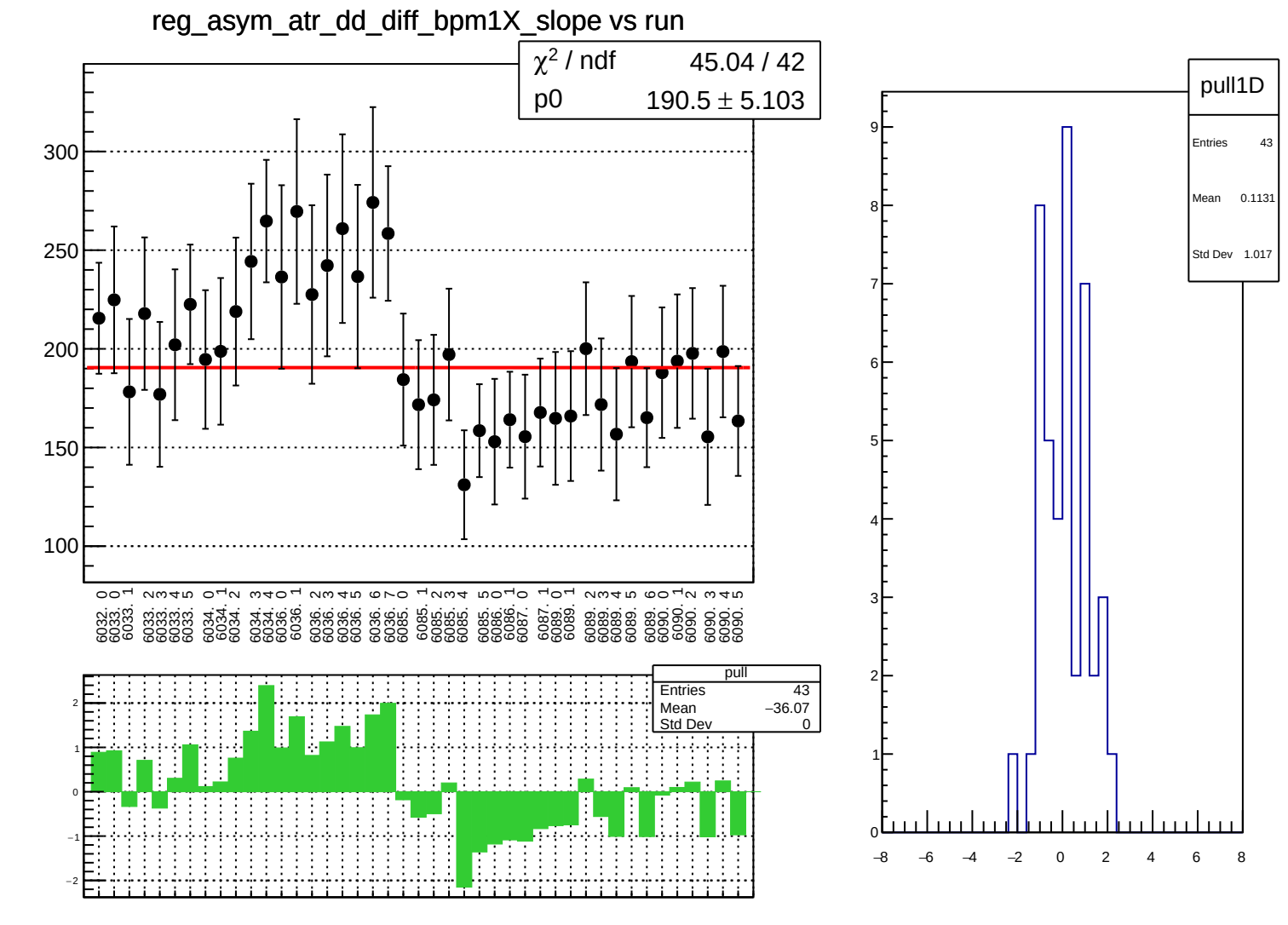

pull1D
Entries 43
Mean 0.04052
Std Dev 0.7051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

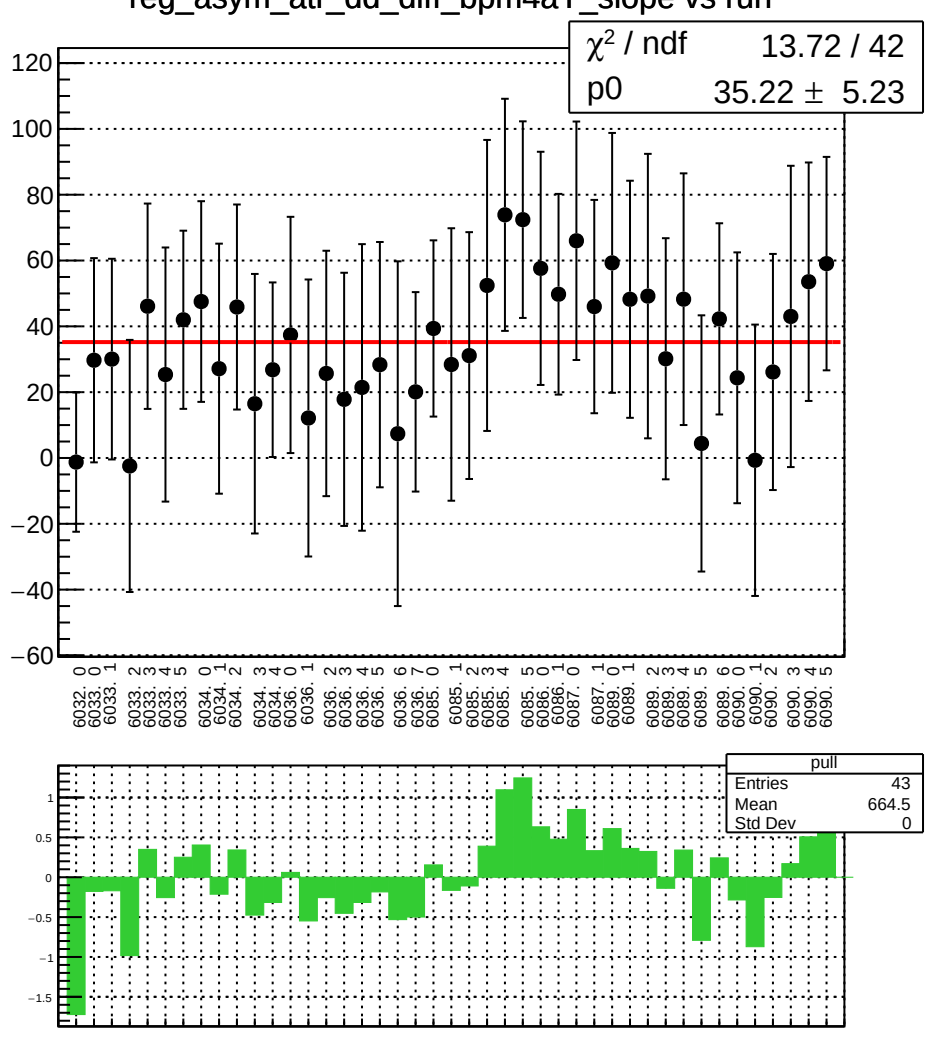

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.34 / 42
p0 72.35 ± 5.633
pull
Entries 43
Mean −261.7
Std Dev 0

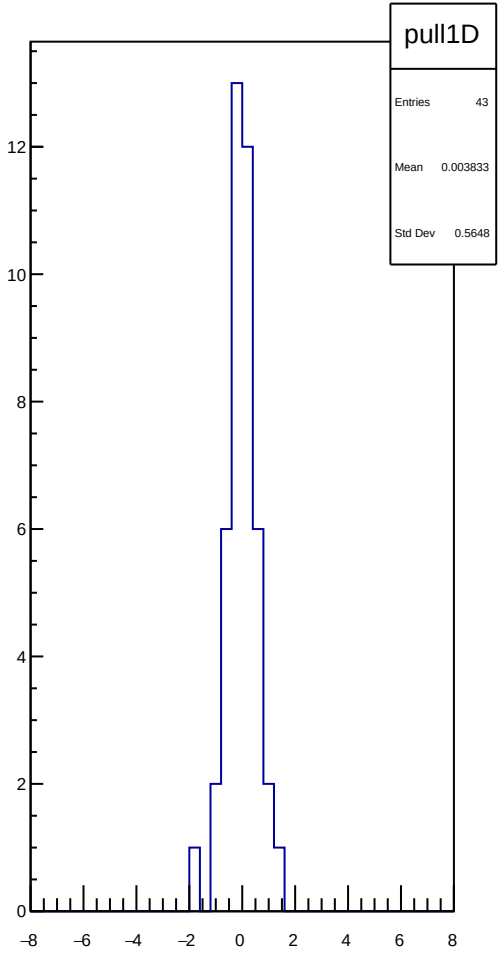

pull1D
Entries 43
Mean −0.004599
Std Dev 0.5775

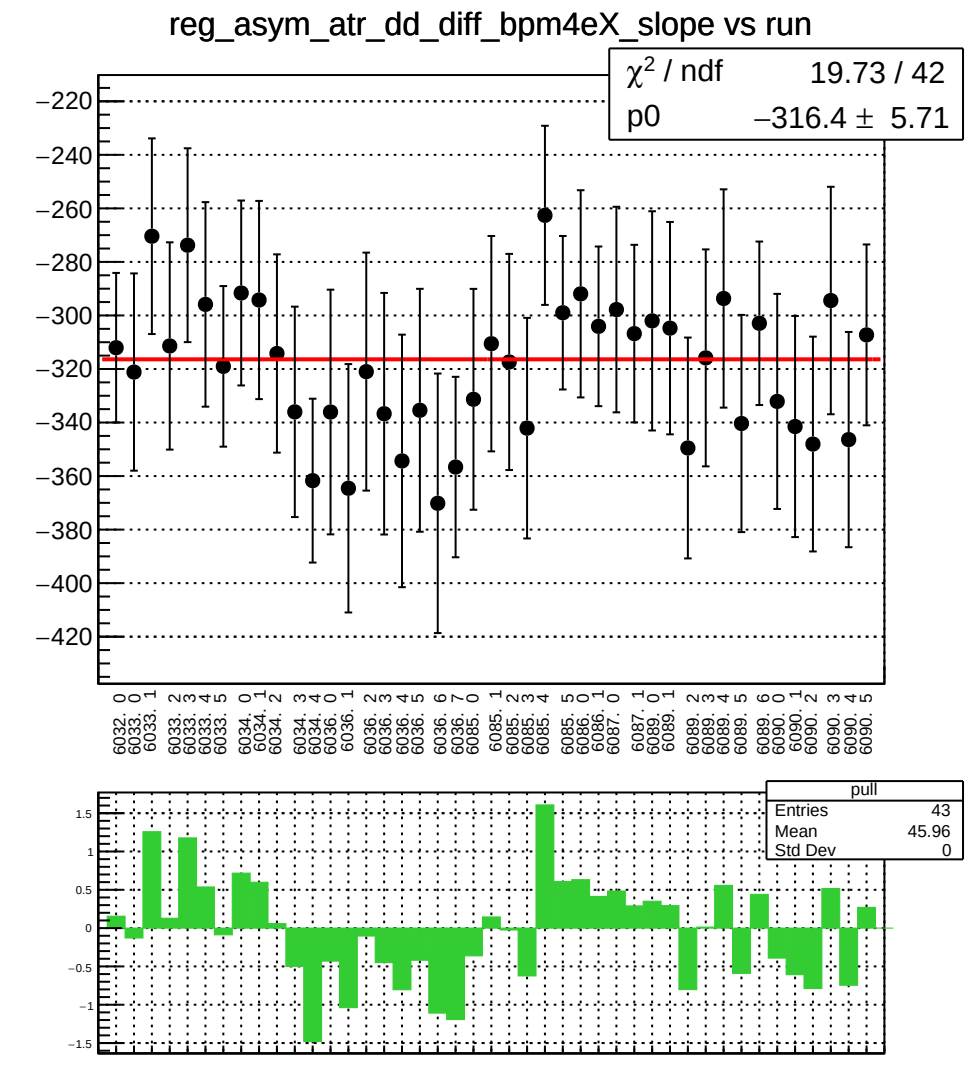

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 31.02 / 42
p0 −139.4 ± 0.468
−130
−135
−140
−145
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −339
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

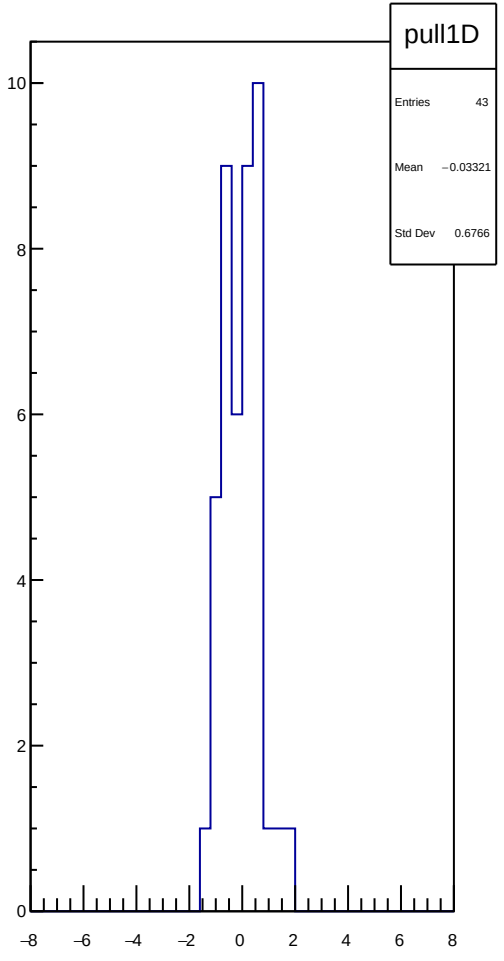

pull1D
Entries 43
Mean 0.01936
Std Dev 0.8491
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

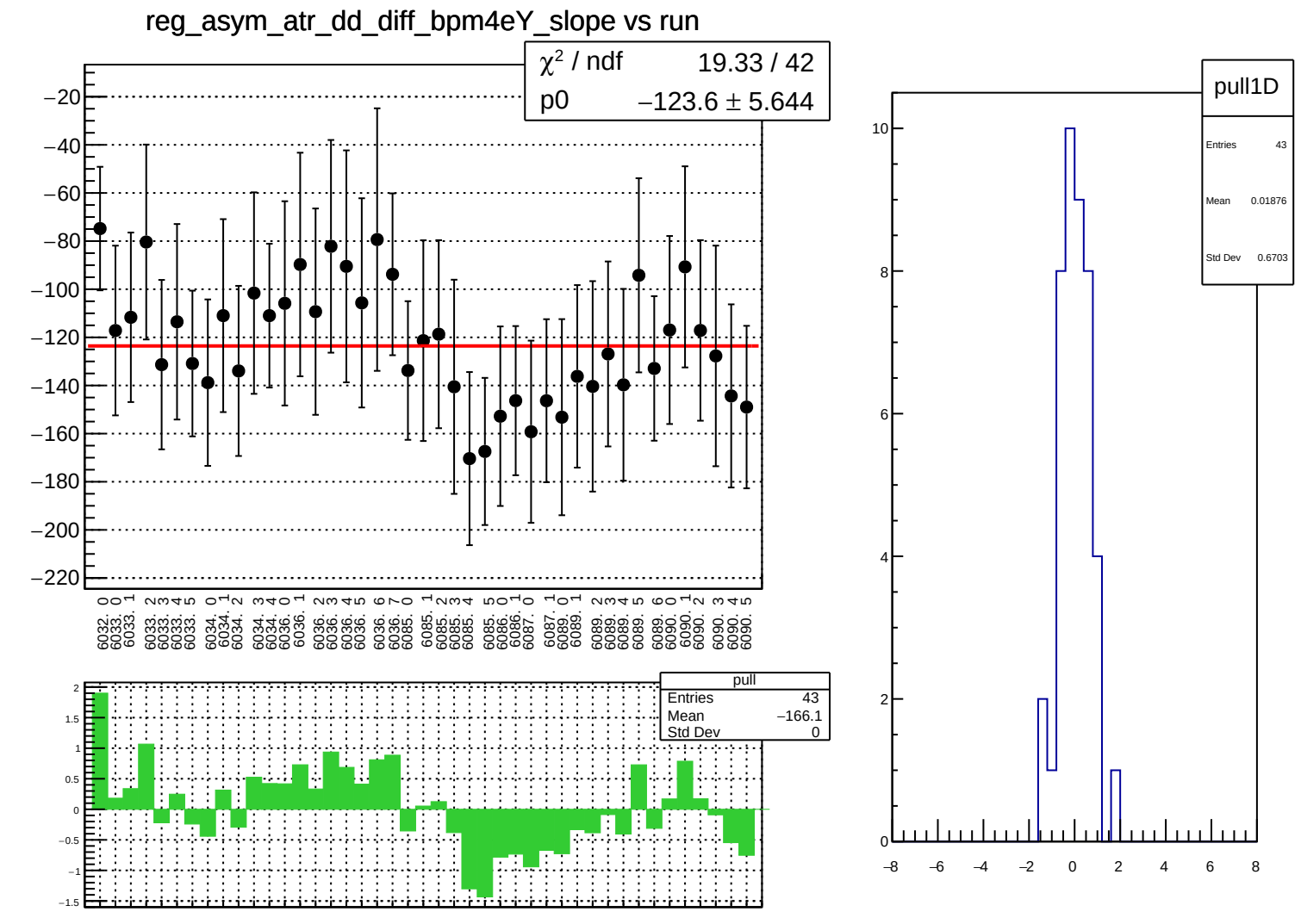

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 45.04 / 42
p0 190.5 ± 5.103
300
250
200
150
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −36.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1131
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

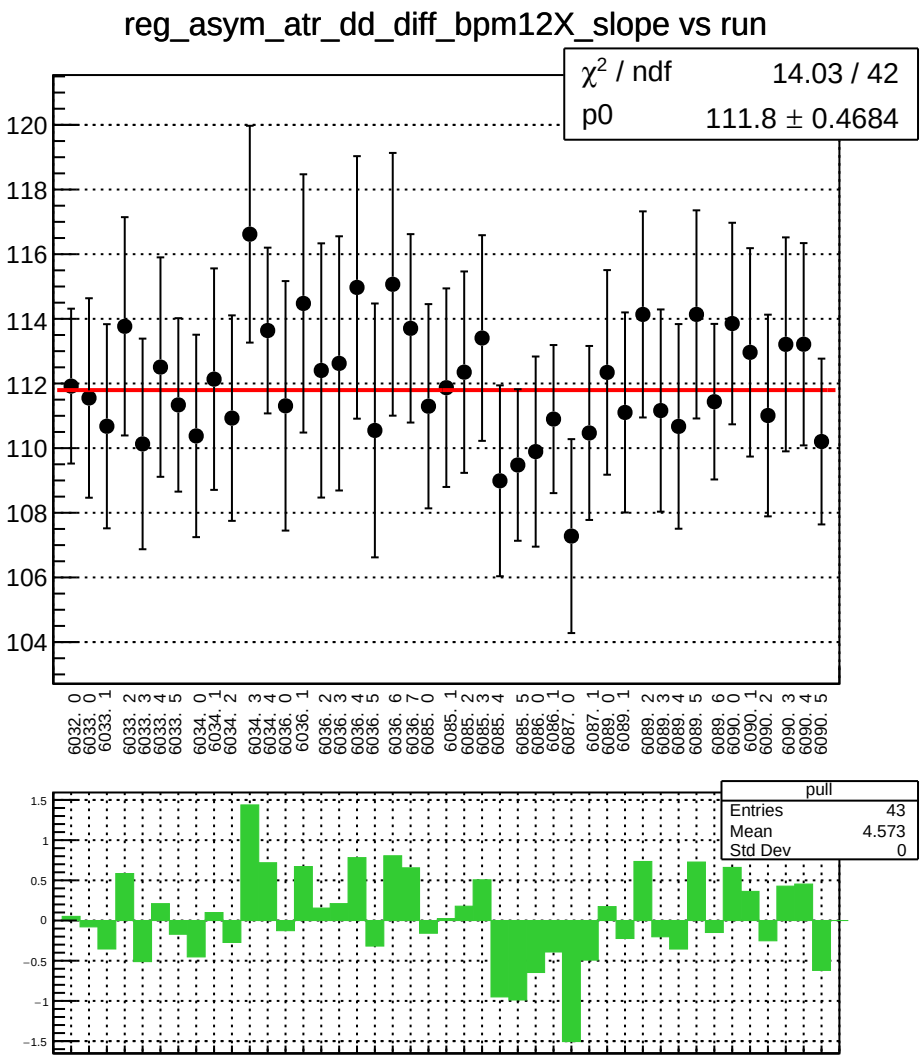

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.72 / 42
p0 35.22 ± 5.23
pull
Entries 43
Mean 664.5
Std Dev 0

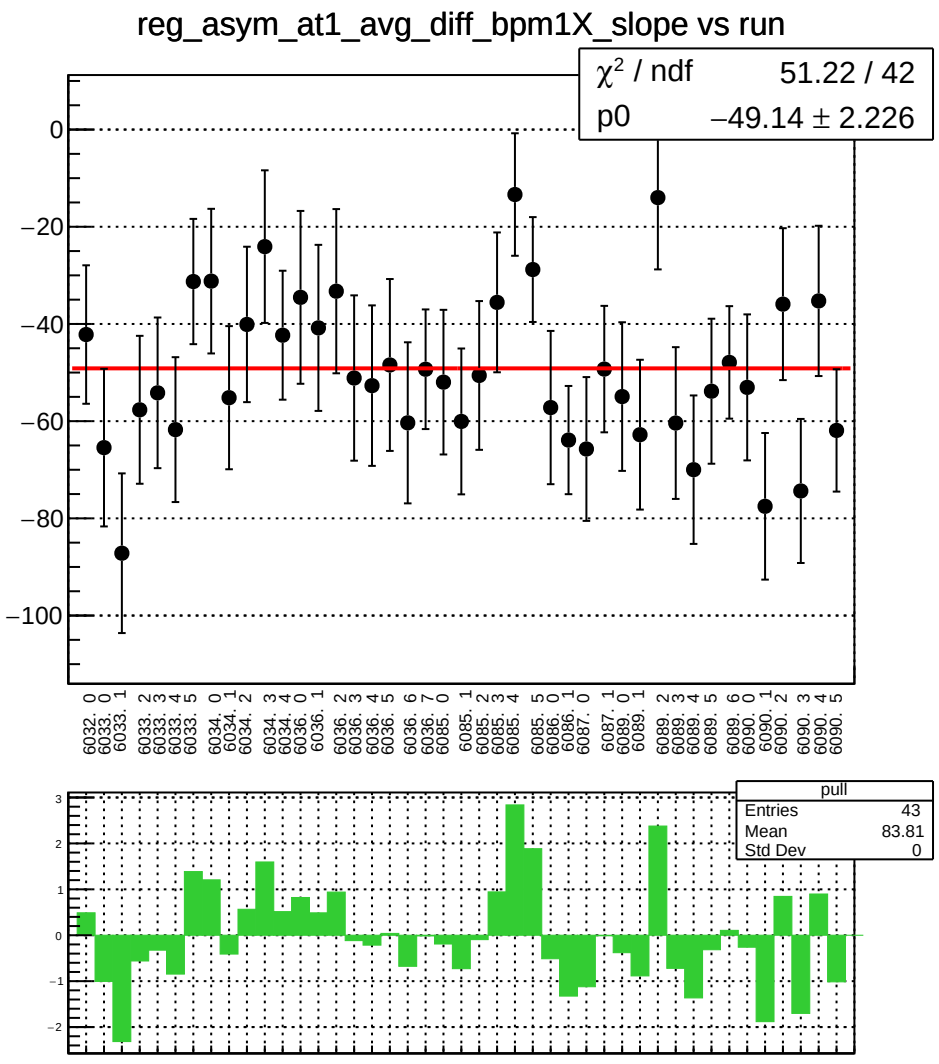

pull1D
Entries 43
Mean 0.003833
Std Dev 0.5648

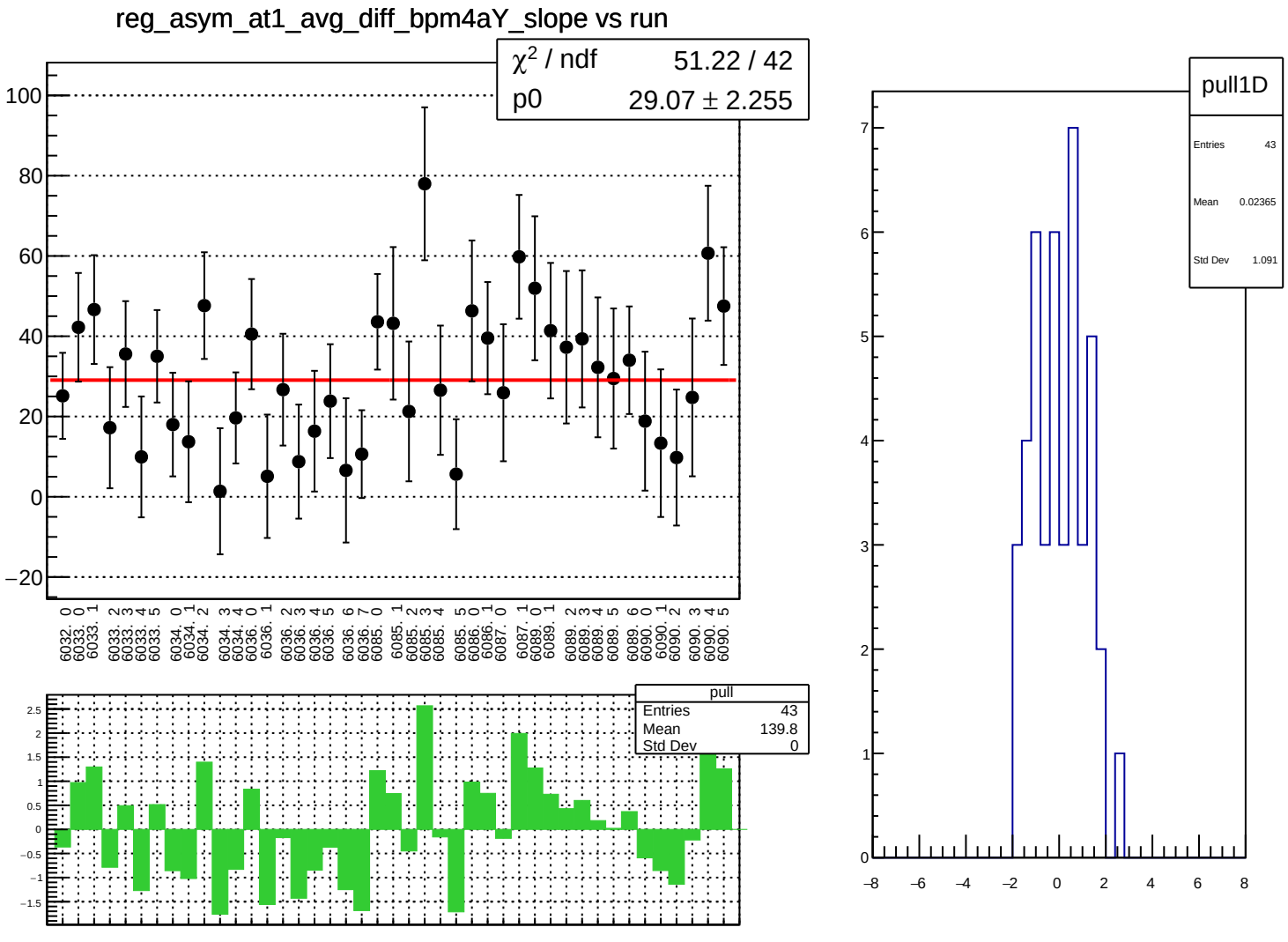

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.73 / 42
p0 −316.4 ± 5.71
pull
Entries 43
Mean 45.96
Std Dev 0

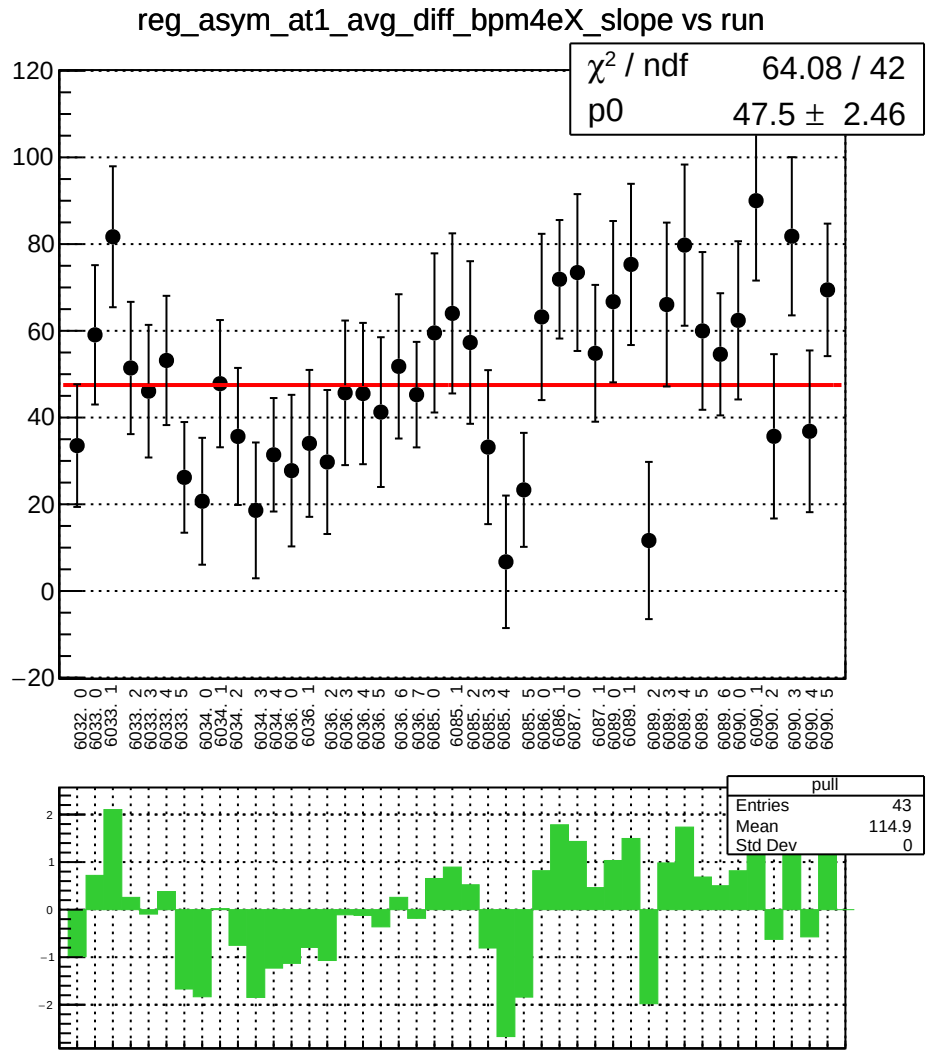

pull1D
Entries 43
Mean −0.03321
Std Dev 0.6766

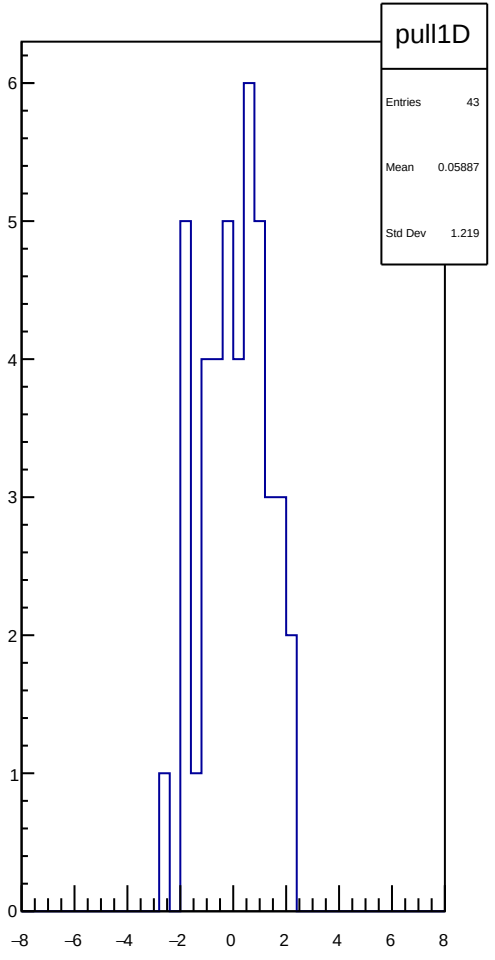

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.33 / 42
p0 −123.6 ± 5.644
pull
Entries 43
Mean −166.1
Std Dev 0
pull1D
Entries 43
Mean 0.01876
Std Dev 0.6703

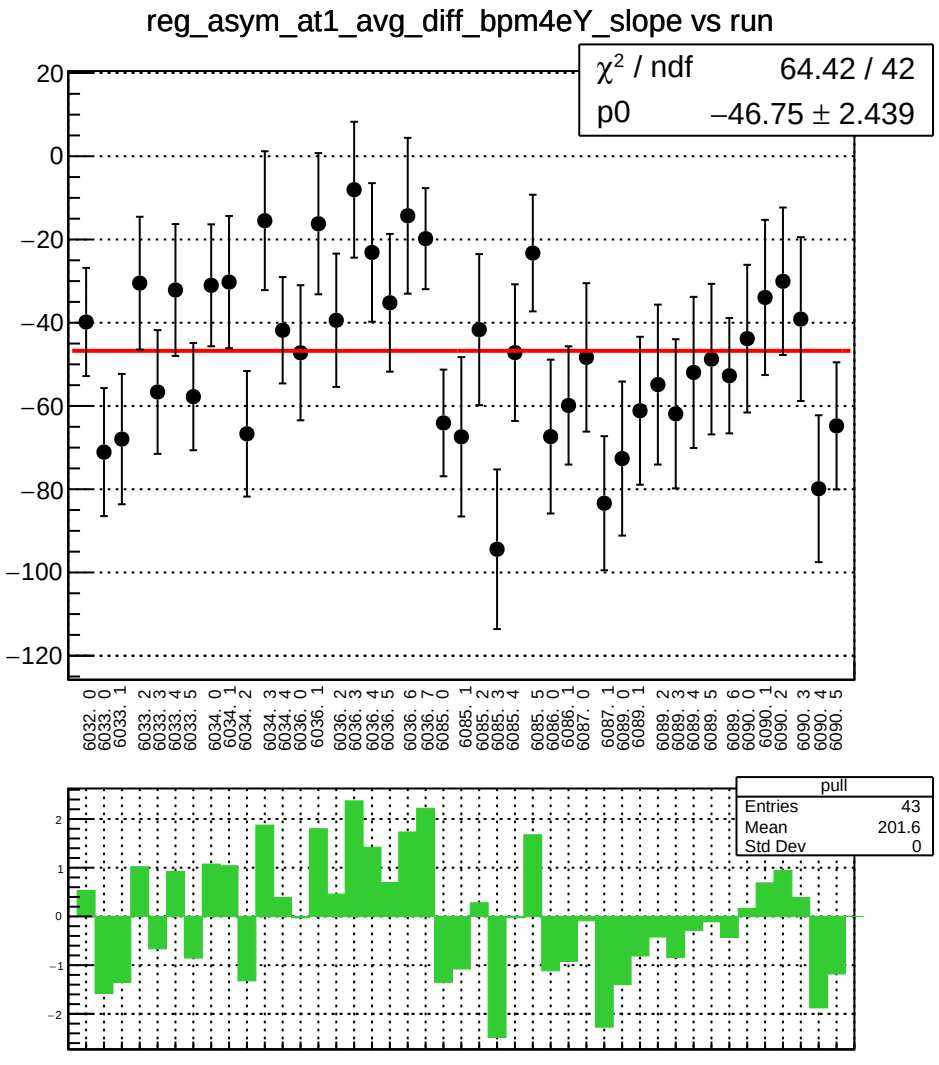

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 14.03 / 42
p0 111.8 ± 0.4684
120
118
116
114
112
110
108
106
104
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 4.573
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03281
Std Dev 0.5702
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

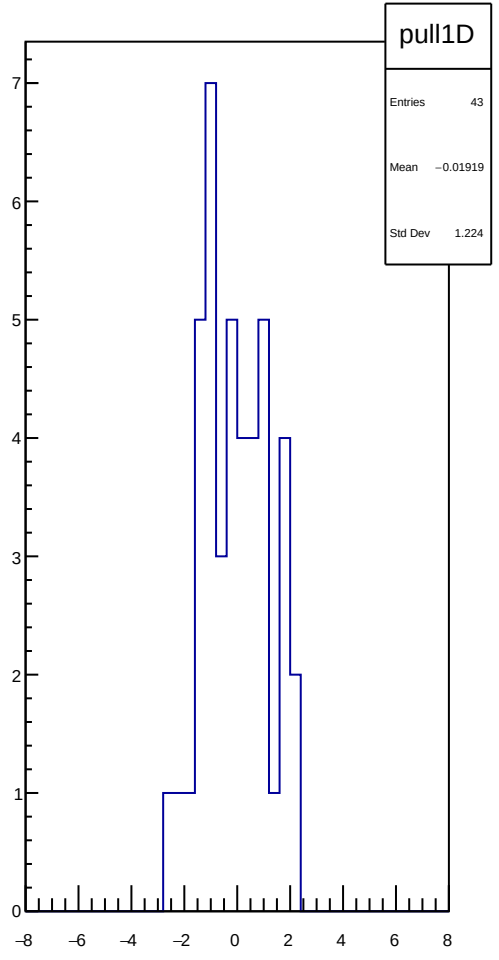

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 51.22 / 42
p0 −49.14 ± 2.226
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 83.81
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02441
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

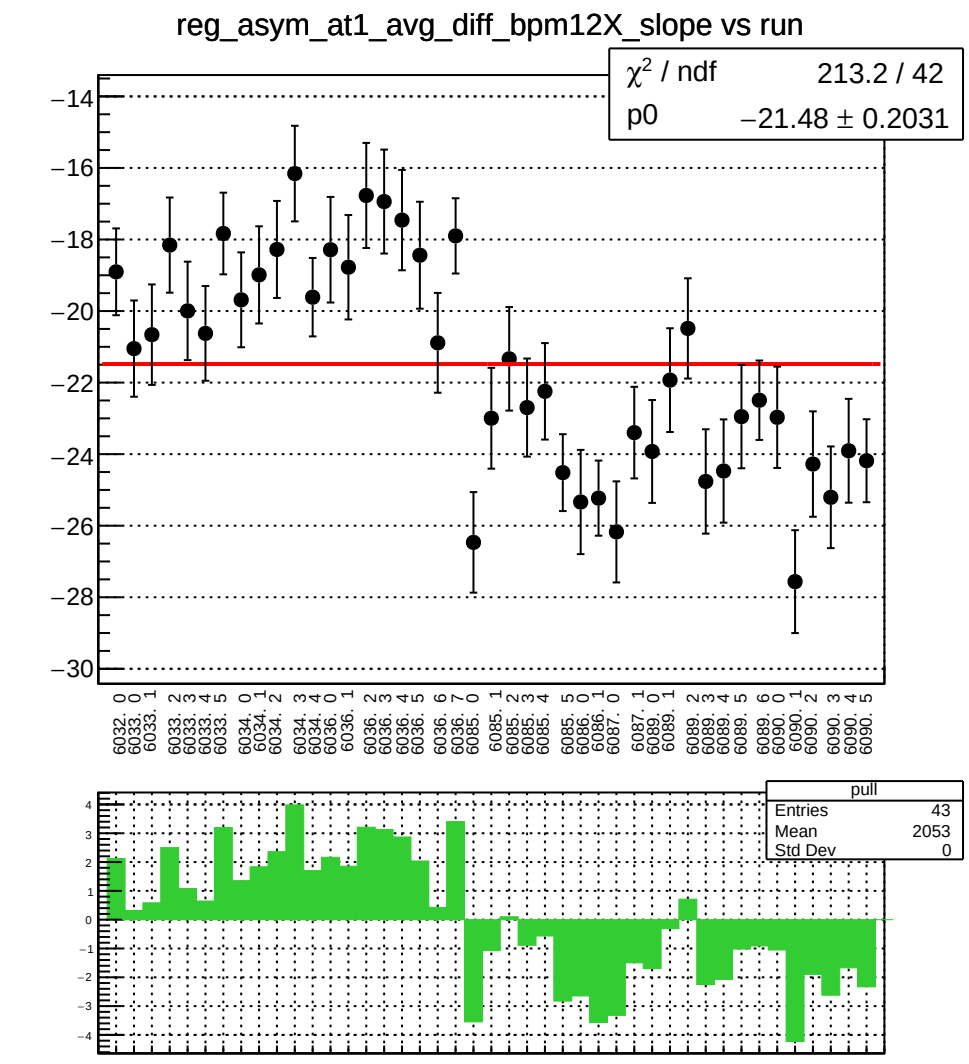

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.22 / 42
p0 29.07 ± 2.255
100
80
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 139.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02365
Std Dev 1.091
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

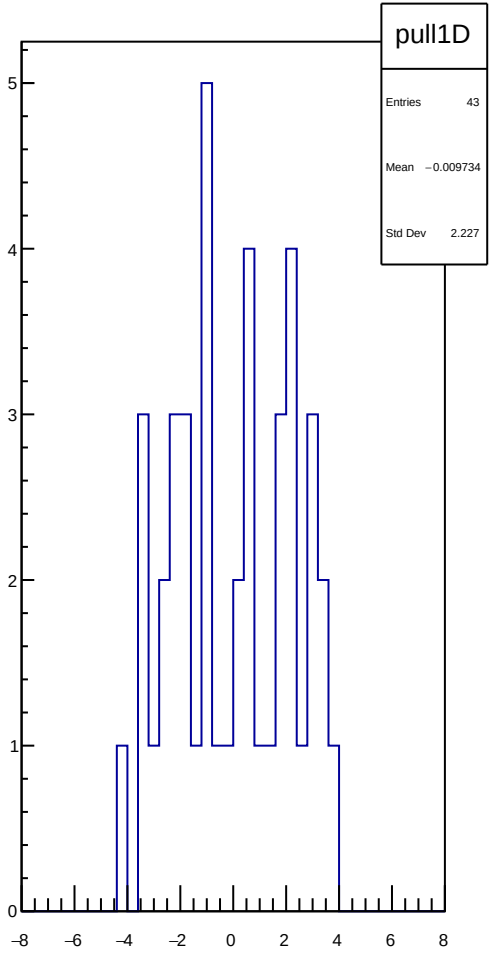

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.08 / 42
p0 47.5 ± 2.46
pull
Entries 43
Mean 114.9
Std Dev 0

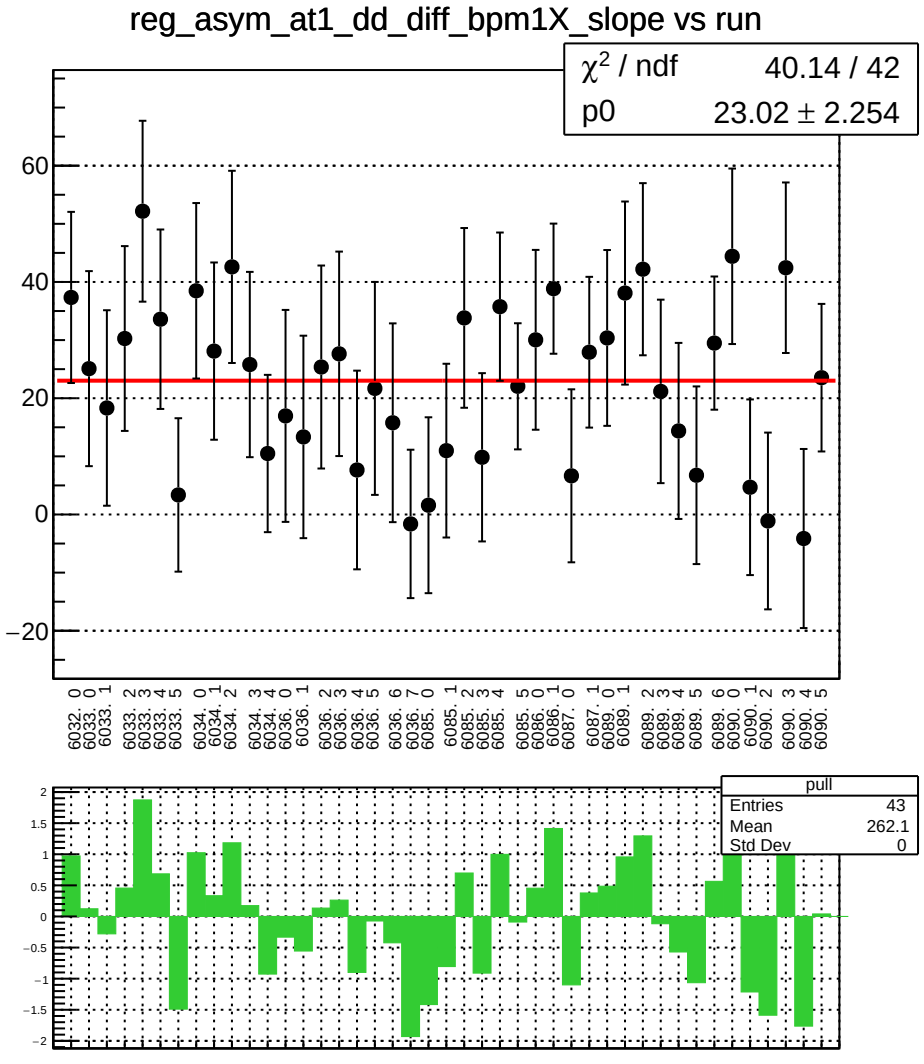

pull1D
Entries 43
Mean 0.05887
Std Dev 1.219

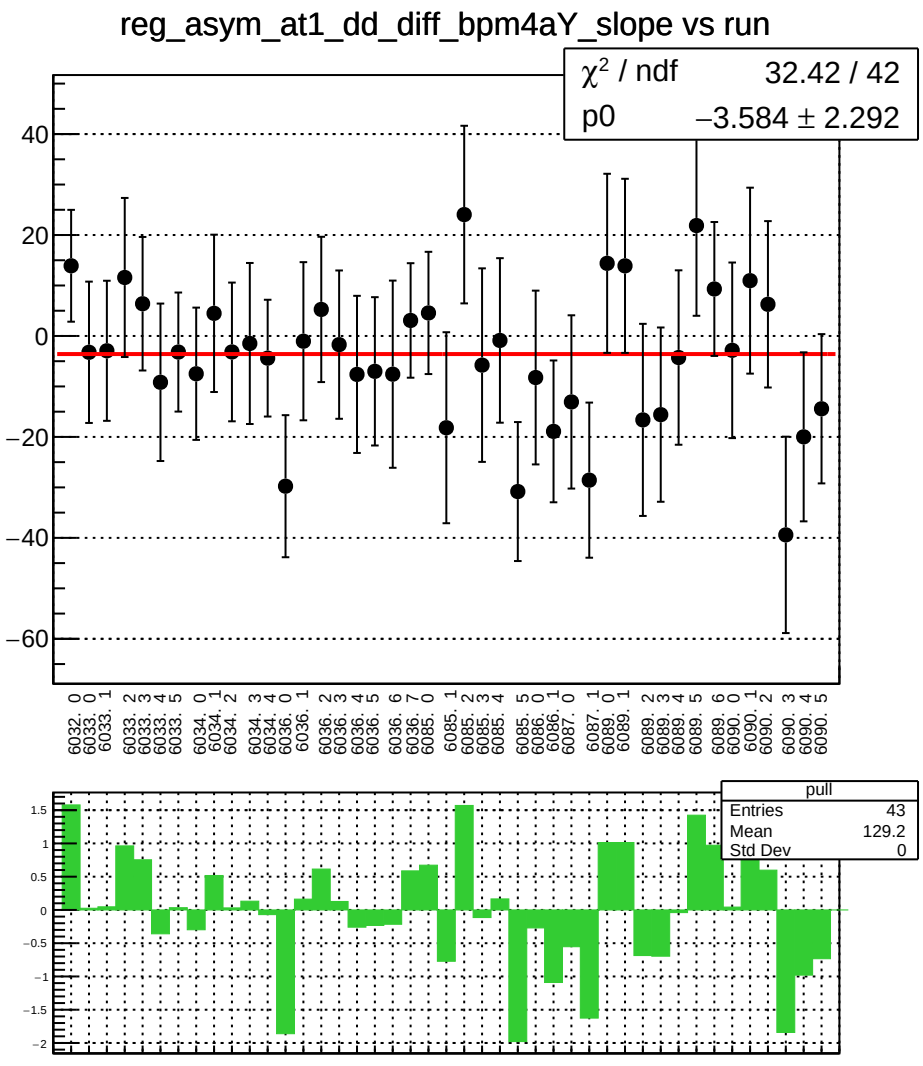

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.42 / 42
p0 −46.75 ± 2.439
pull
Entries 43
Mean 201.6
Std Dev 0

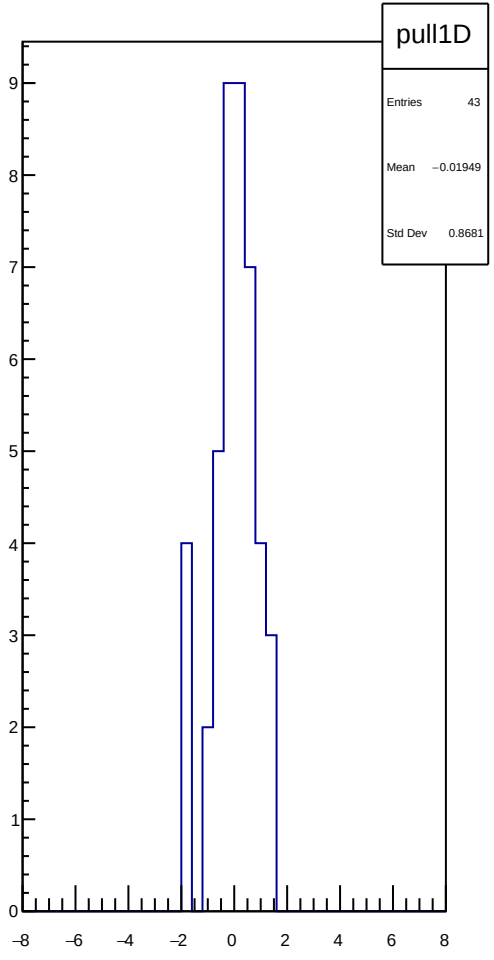

pull1D
Entries 43
Mean −0.01919
Std Dev 1.224

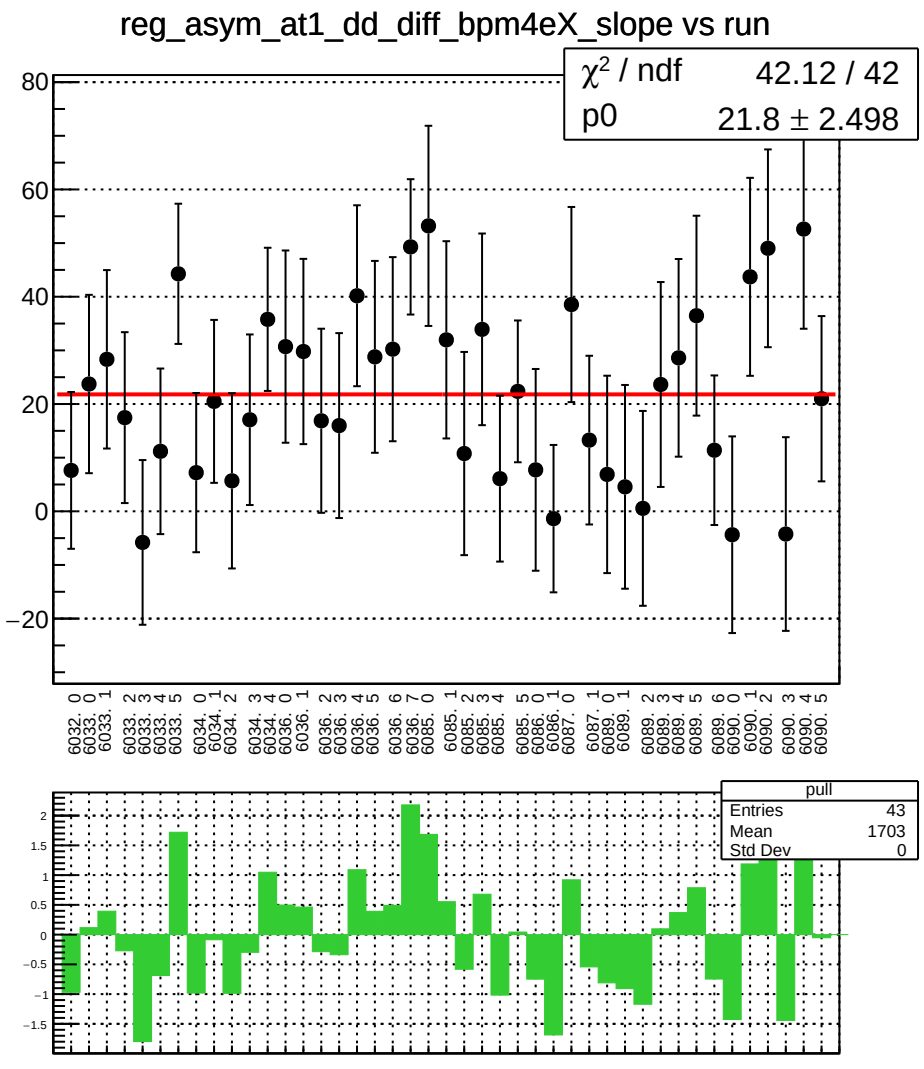

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 213.2 / 42
p0 −21.48 ± 0.2031
pull
Entries 43
Mean 2053
Std Dev 0

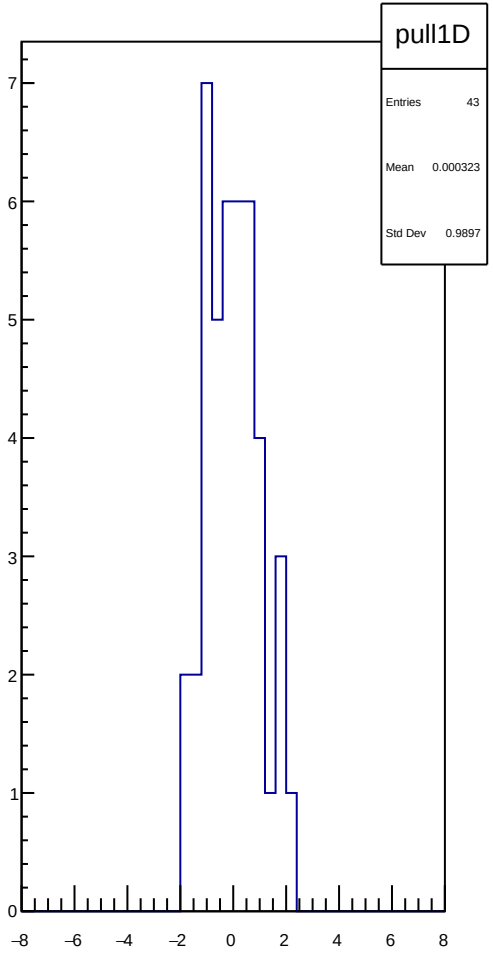

pull1D
Entries 43
Mean −0.009734
Std Dev 2.227

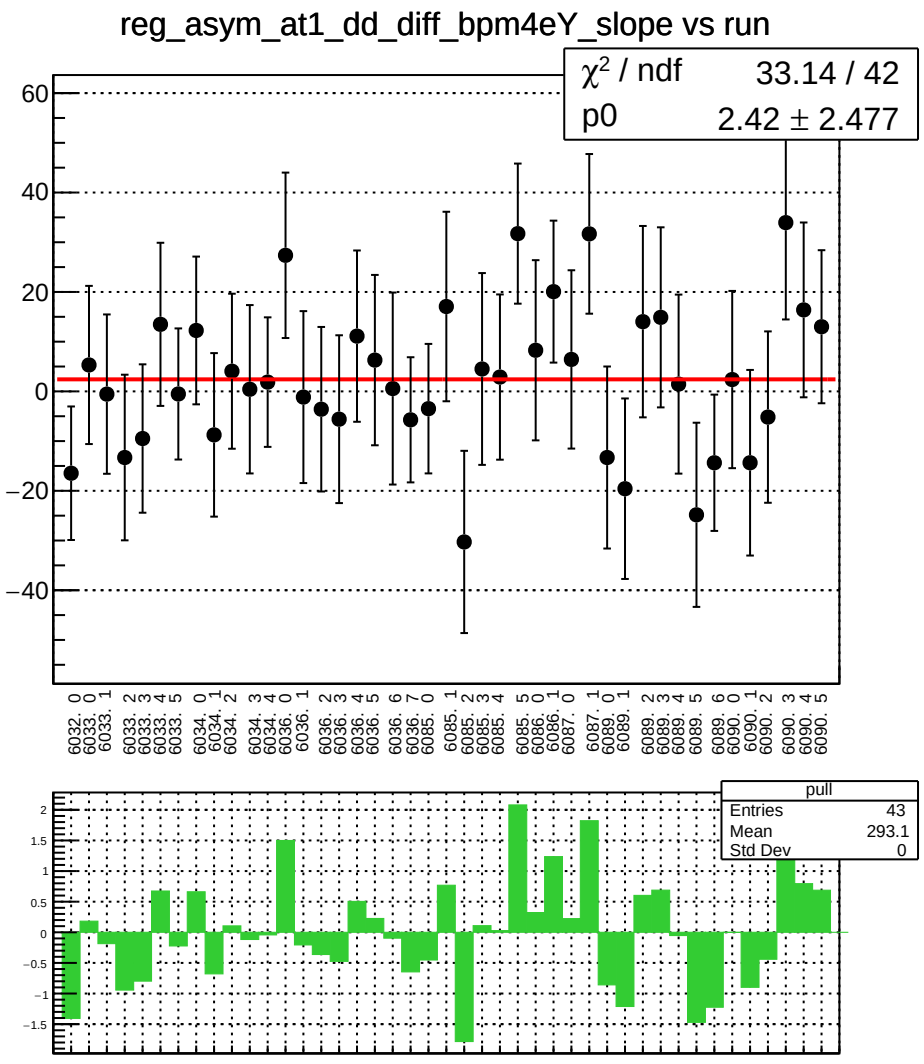

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 40.14 / 42
p0 23.02 ± 2.254
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 262.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.006845
Std Dev 0.9662
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

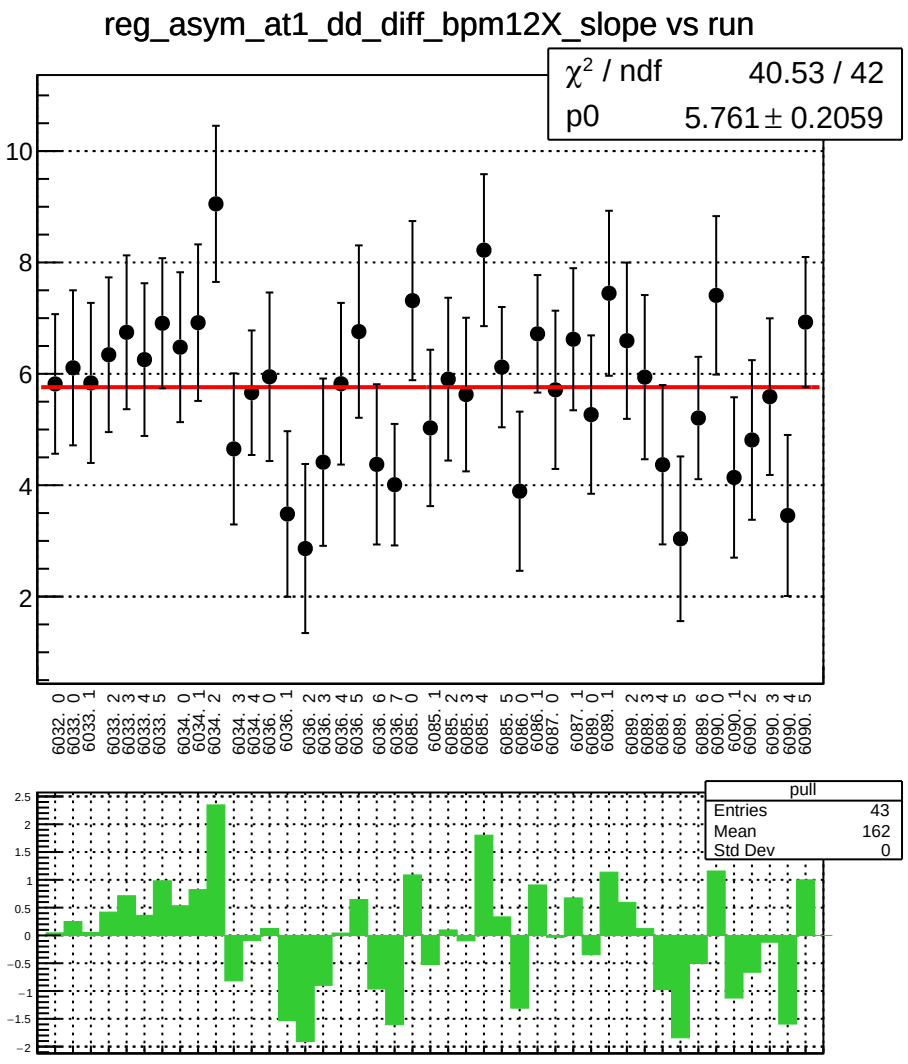

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.42 / 42
p0 −3.584 ± 2.292
pull
Entries 43
Mean 129.2
Std Dev 0

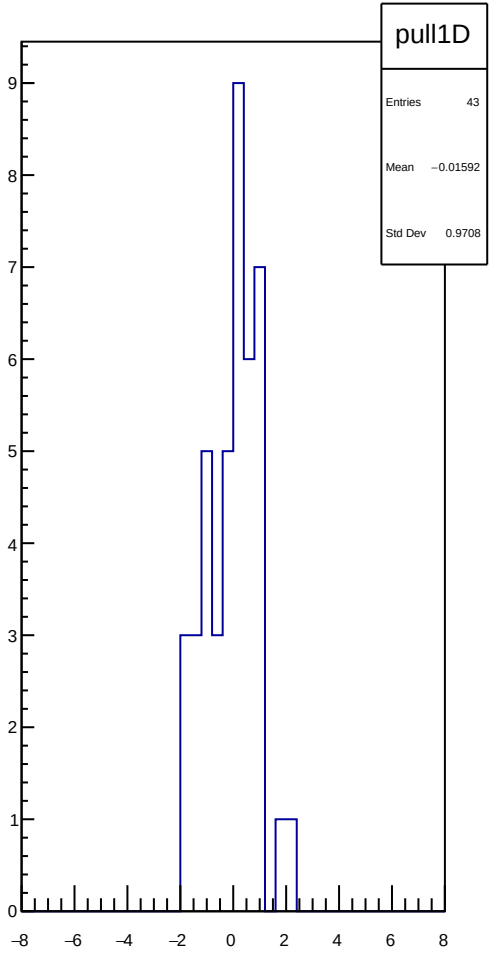

pull1D
Entries 43
Mean −0.01949
Std Dev 0.8681

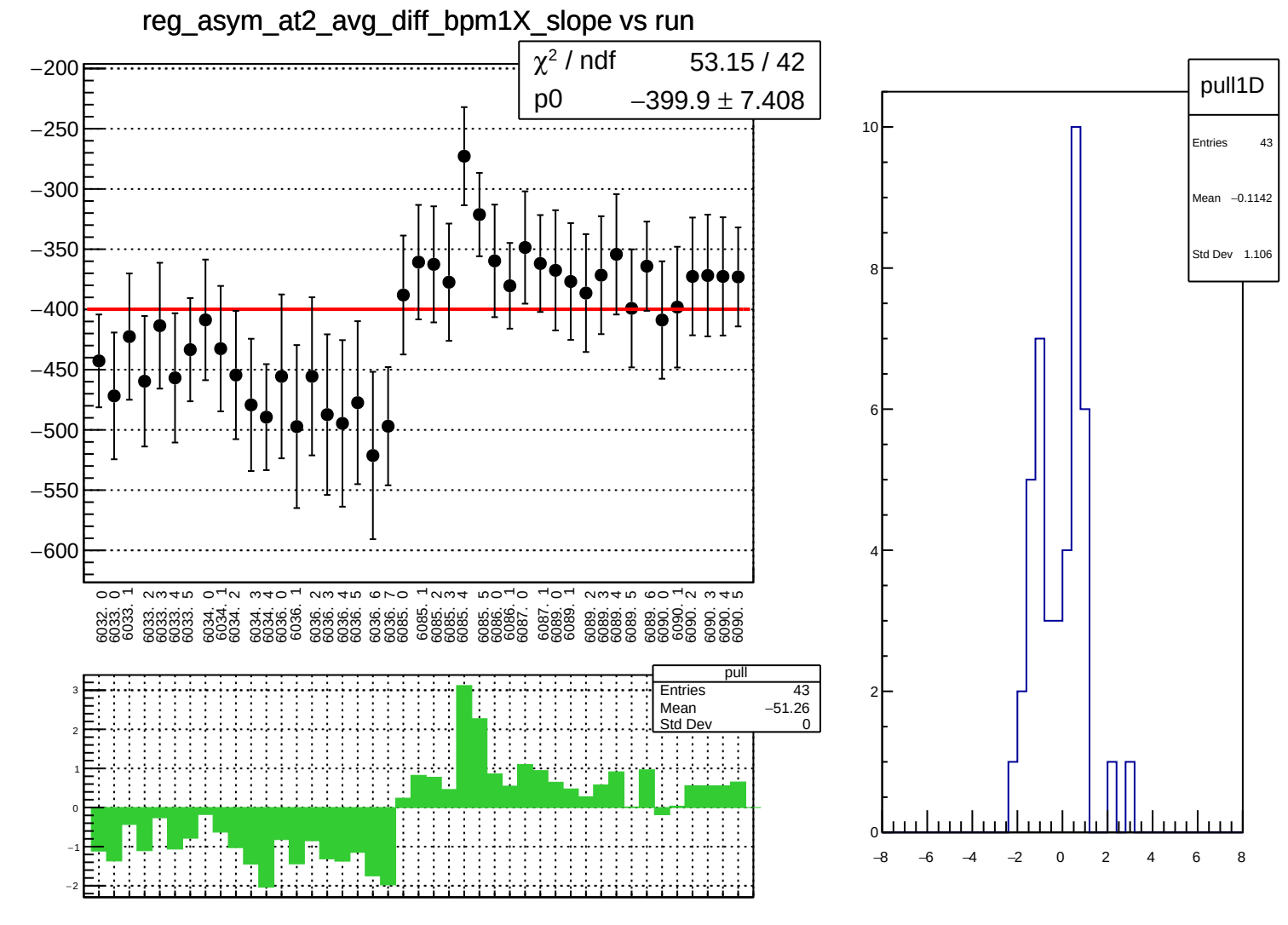

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.12 / 42
p0 21.8 ± 2.498
80
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1703
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

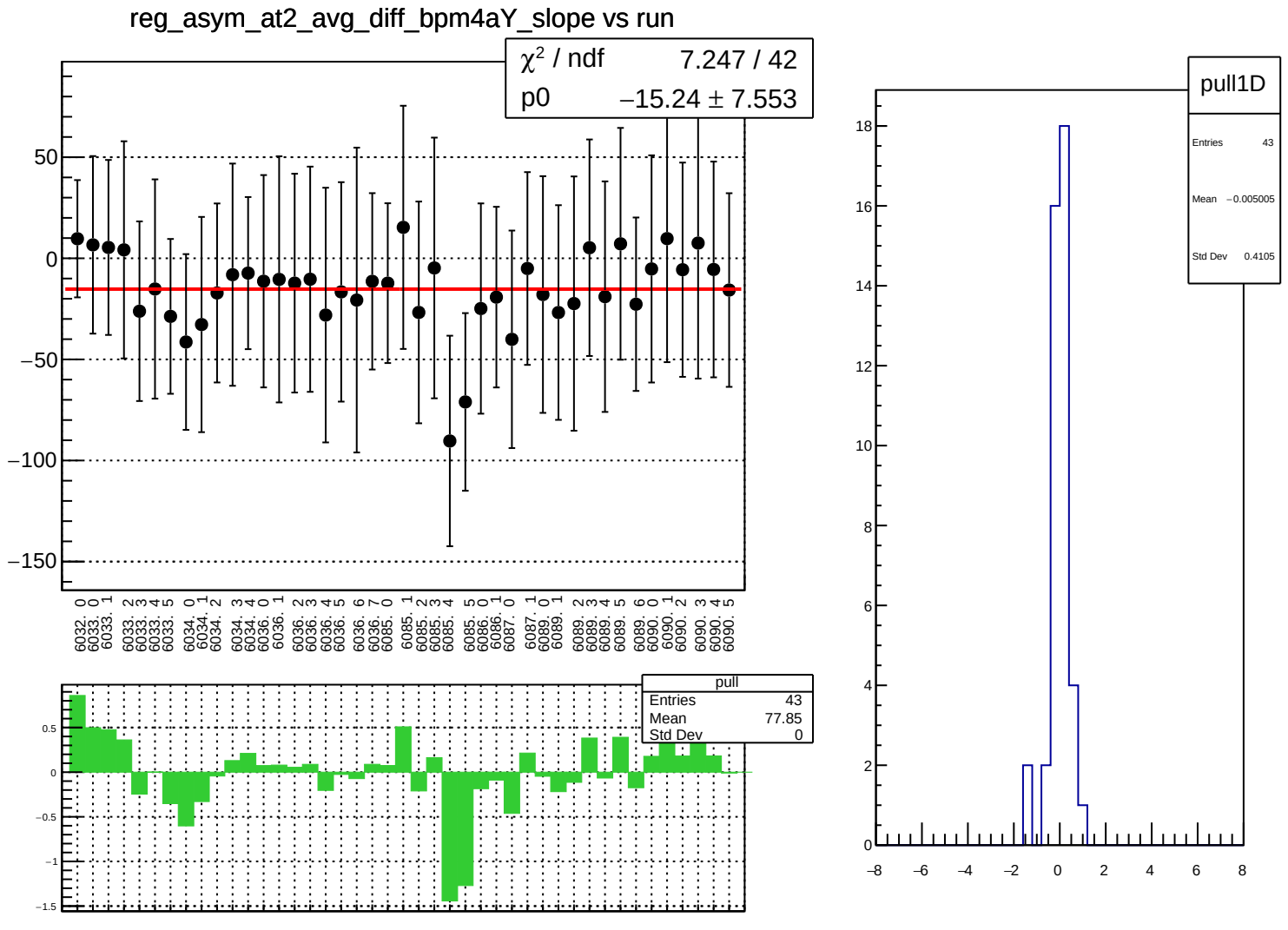

pull1D
Entries 43
Mean 0.000323
Std Dev 0.9897
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

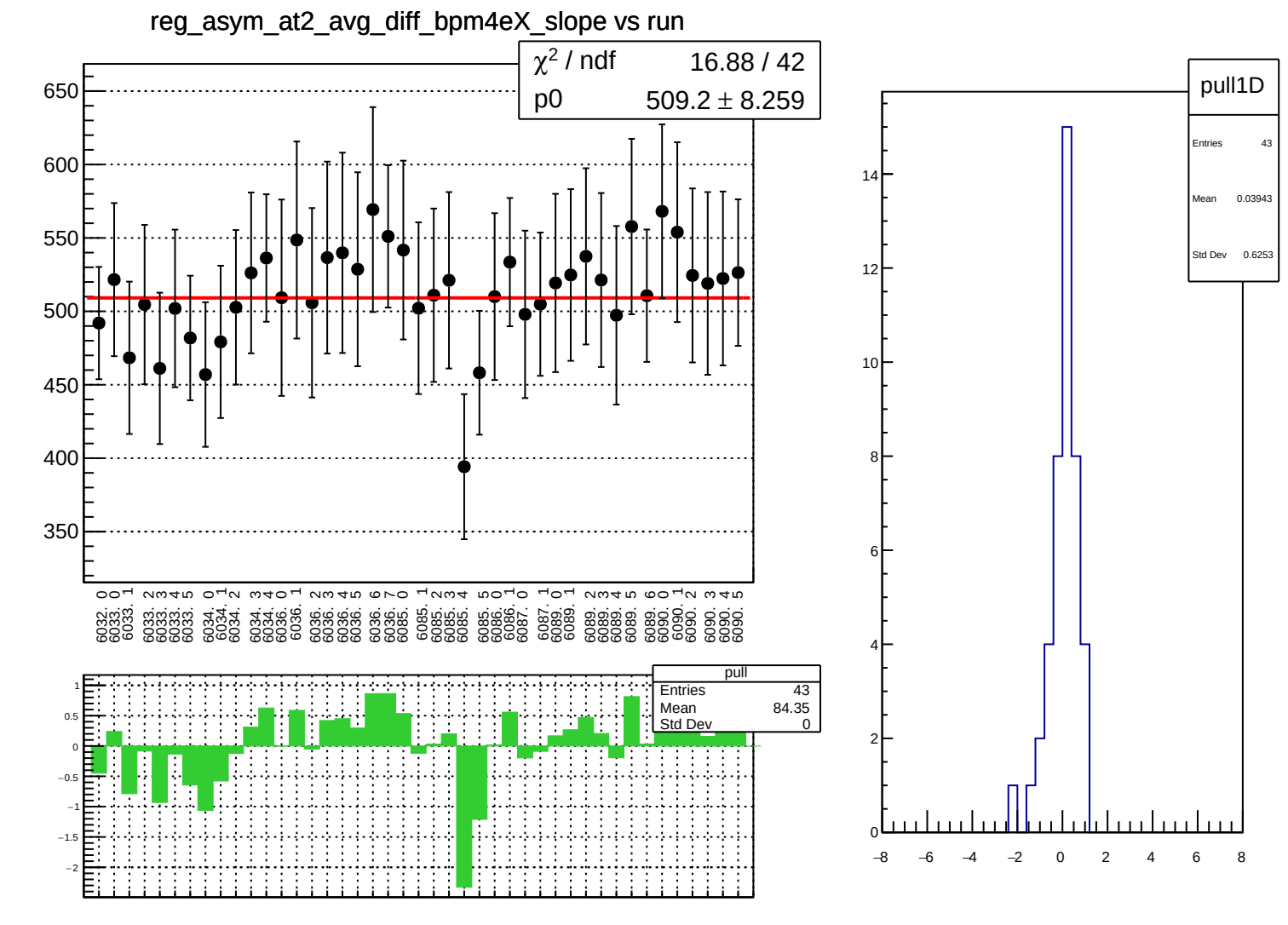

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.14 / 42
p0 2.42 ± 2.477
60
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 293.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.005989
Std Dev 0.8779
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

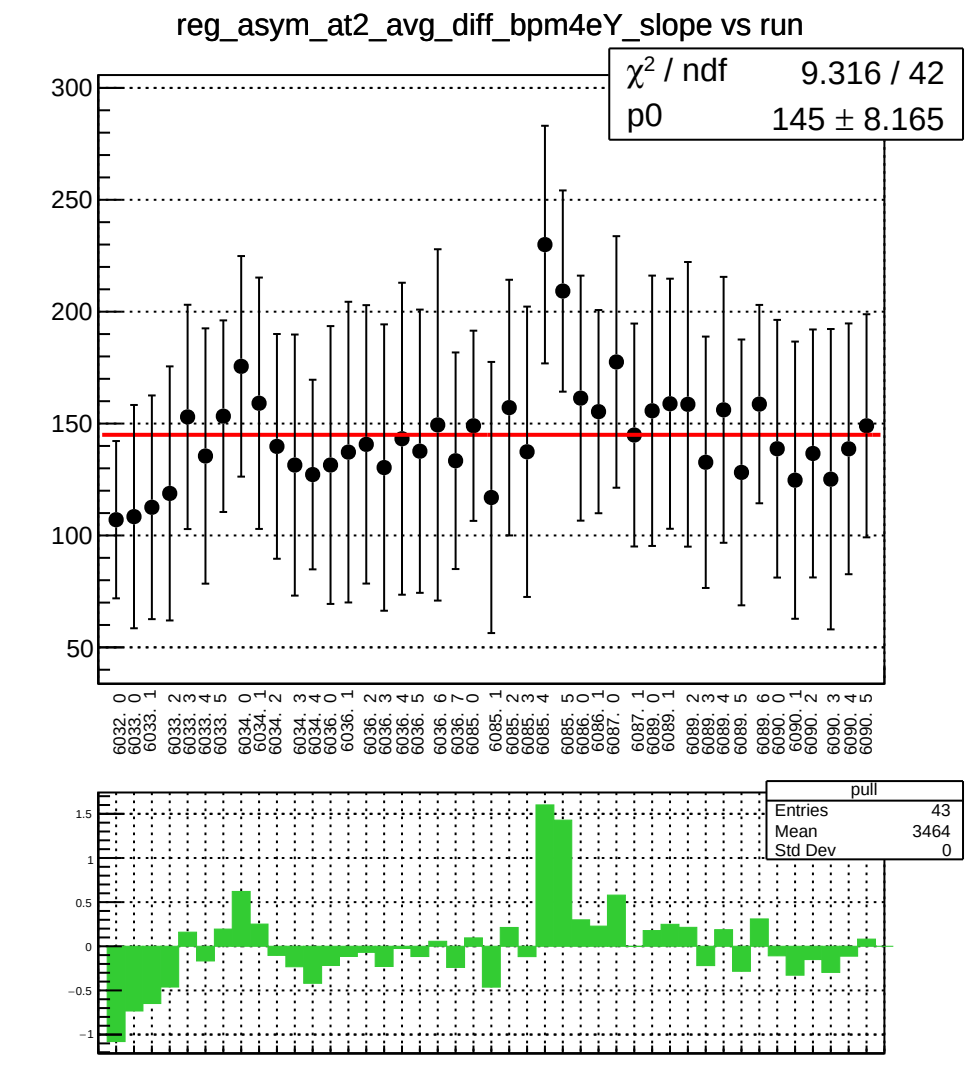

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 40.53 / 42
p0 5.761 ± 0.2059
pull
Entries 43
Mean 162
Std Dev 0

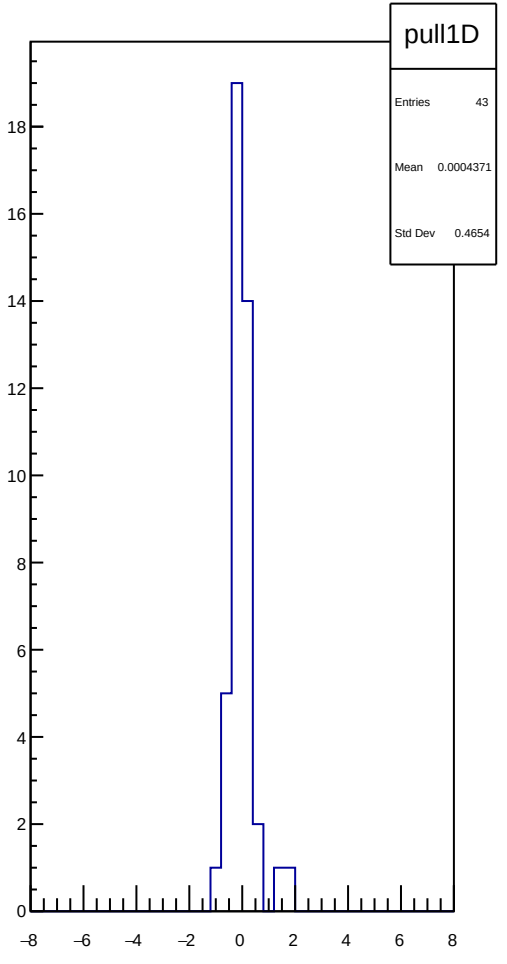

pull1D
Entries 43
Mean −0.01592
Std Dev 0.9708

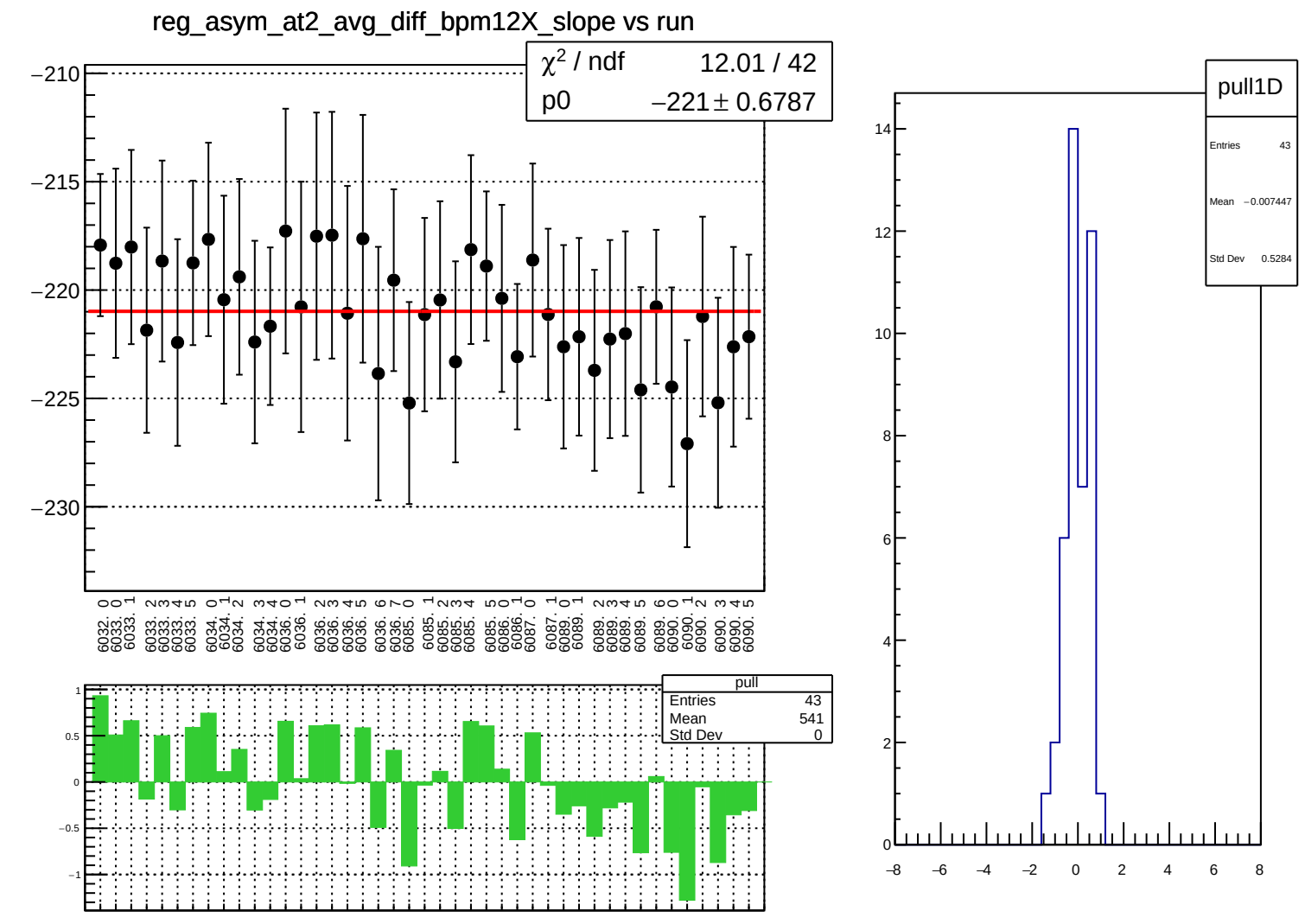

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 53.15 / 42
p0 −399.9 ± 7.408
pull
Entries 43
Mean −51.26
Std Dev 0
pull1D
Entries 43
Mean −0.1142
Std Dev 1.106

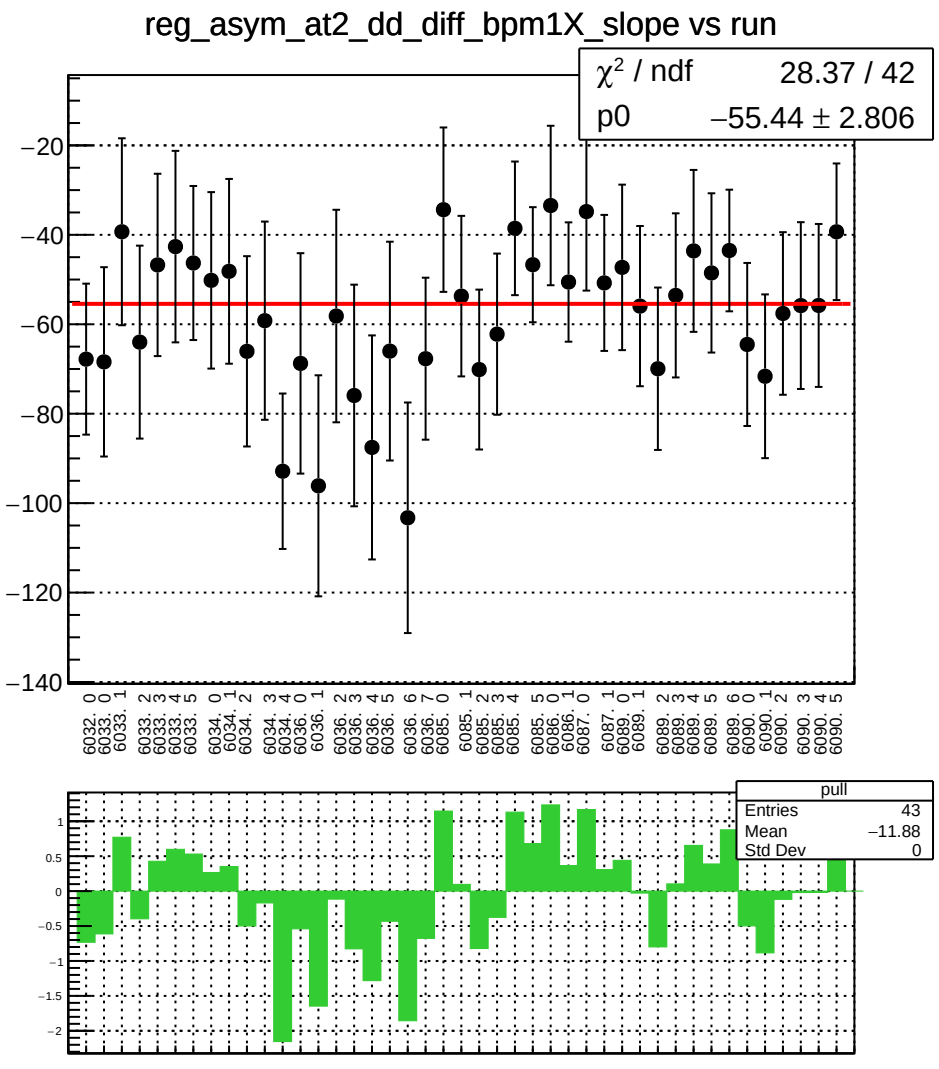

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.247 / 42
p0 −15.24 ± 7.553
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 77.85
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.005005
Std Dev 0.4105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

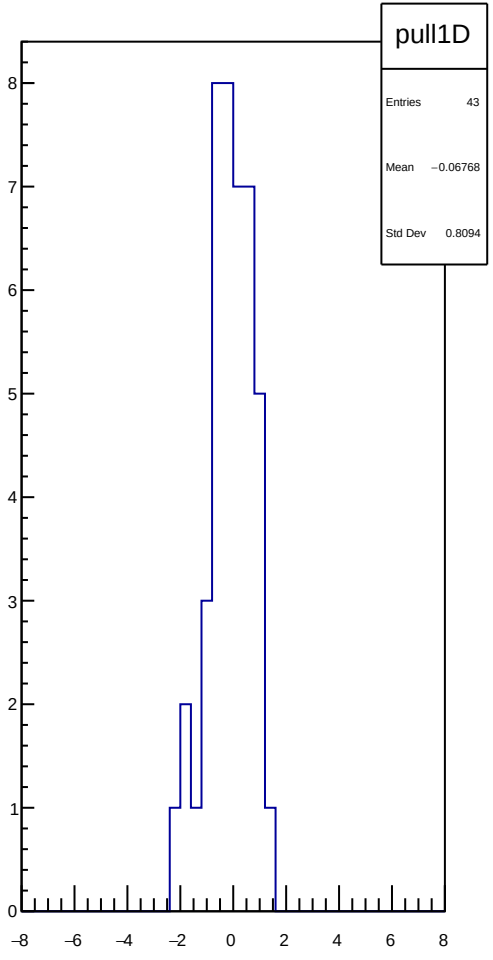

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.88 / 42
p0 509.2 ± 8.259
650
600
550
500
450
400
350
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 84.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03943
Std Dev 0.6253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

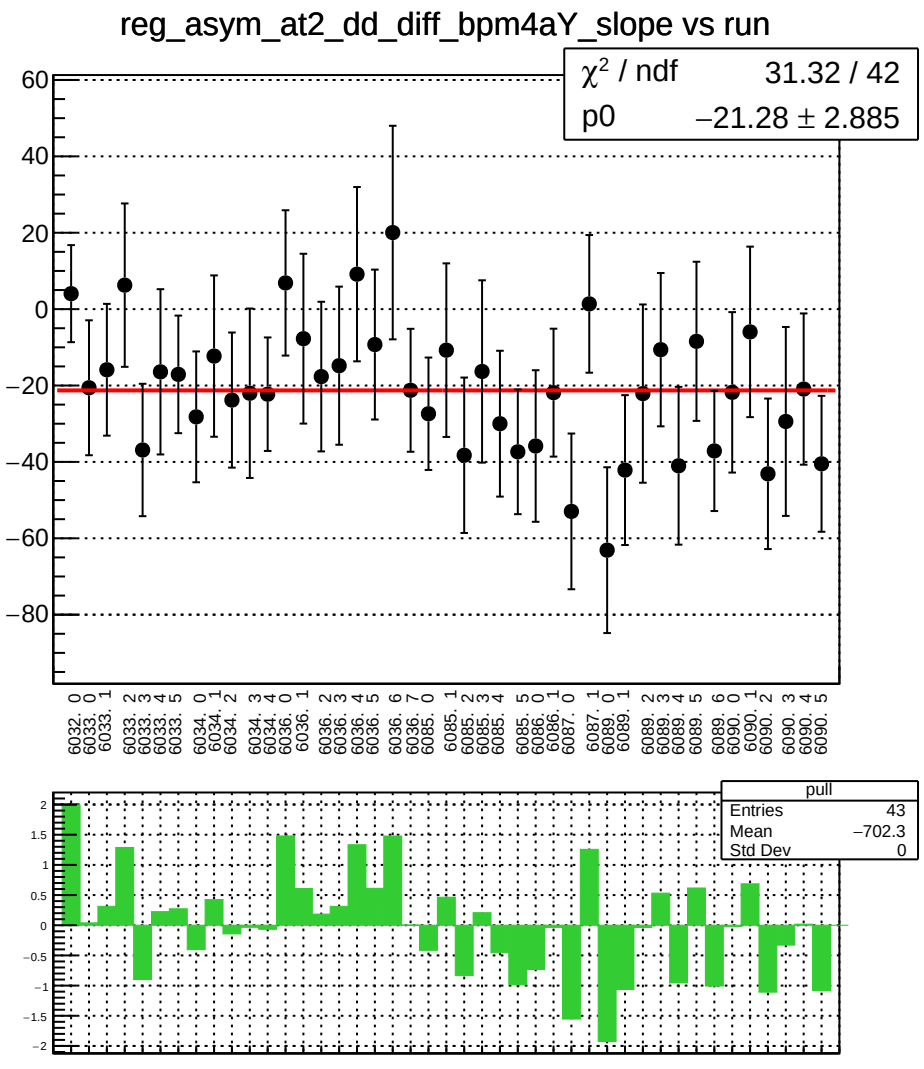

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.316 / 42
p0 145 ± 8.165
300
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3464
Std Dev 0
1.5
1
0.5
0
−0.5
−1

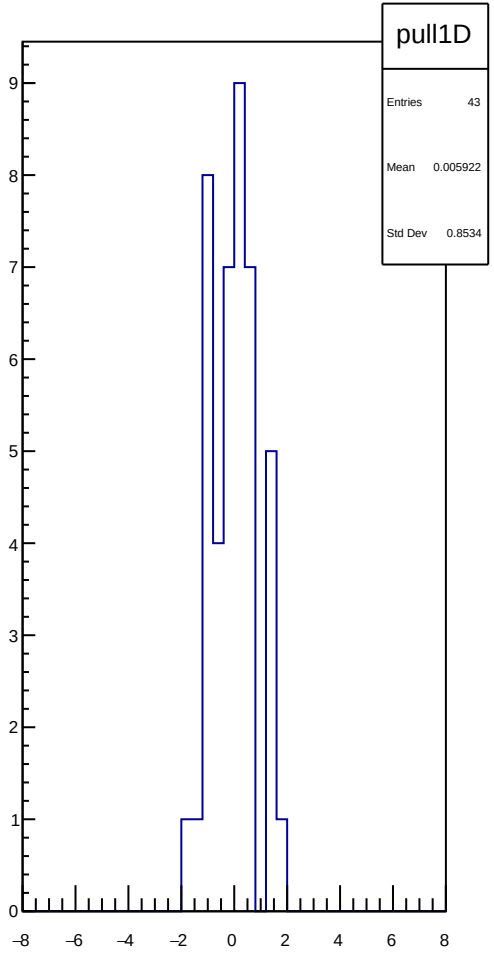

pull1D
Entries 43
Mean 0.0004371
Std Dev 0.4654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

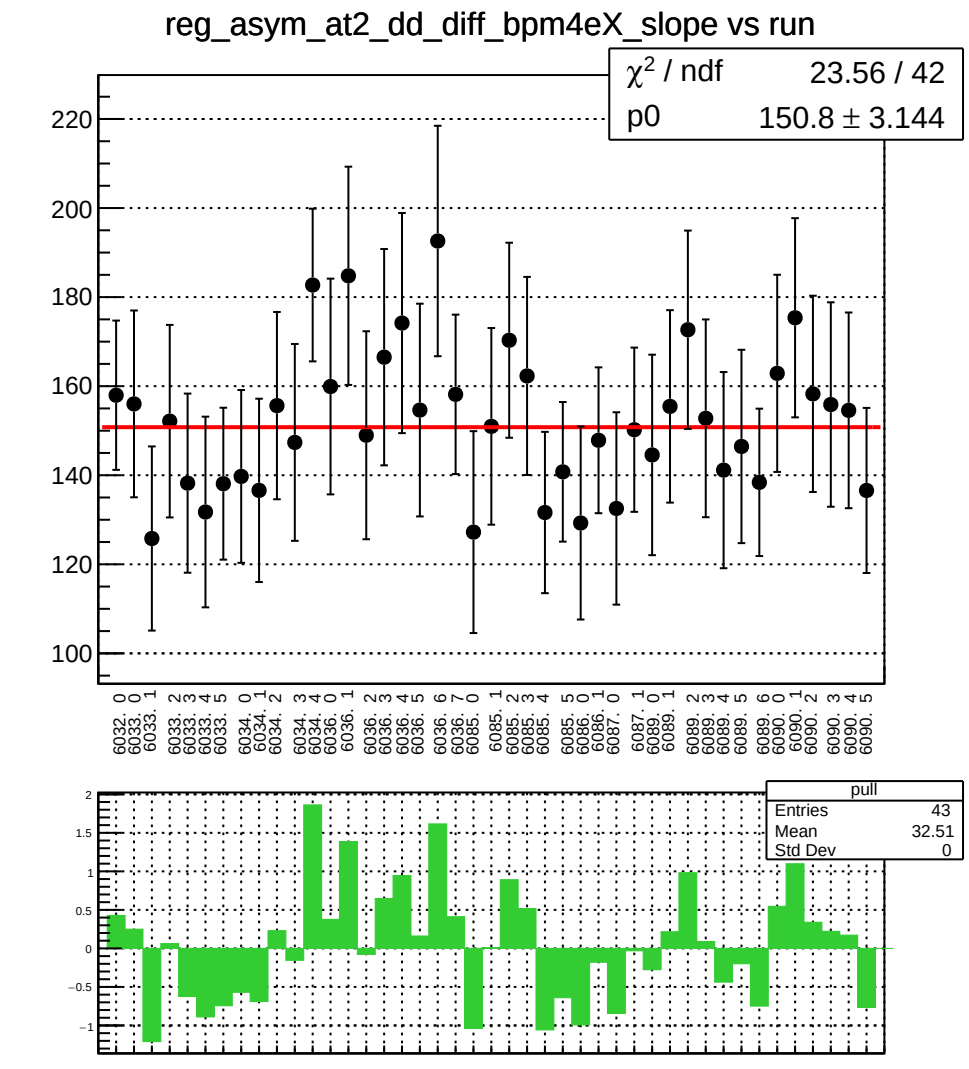

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.01 / 42
p0 −221 ± 0.6787
−210
−215
−220
−225
−230
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 541
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.007447
Std Dev 0.5284
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

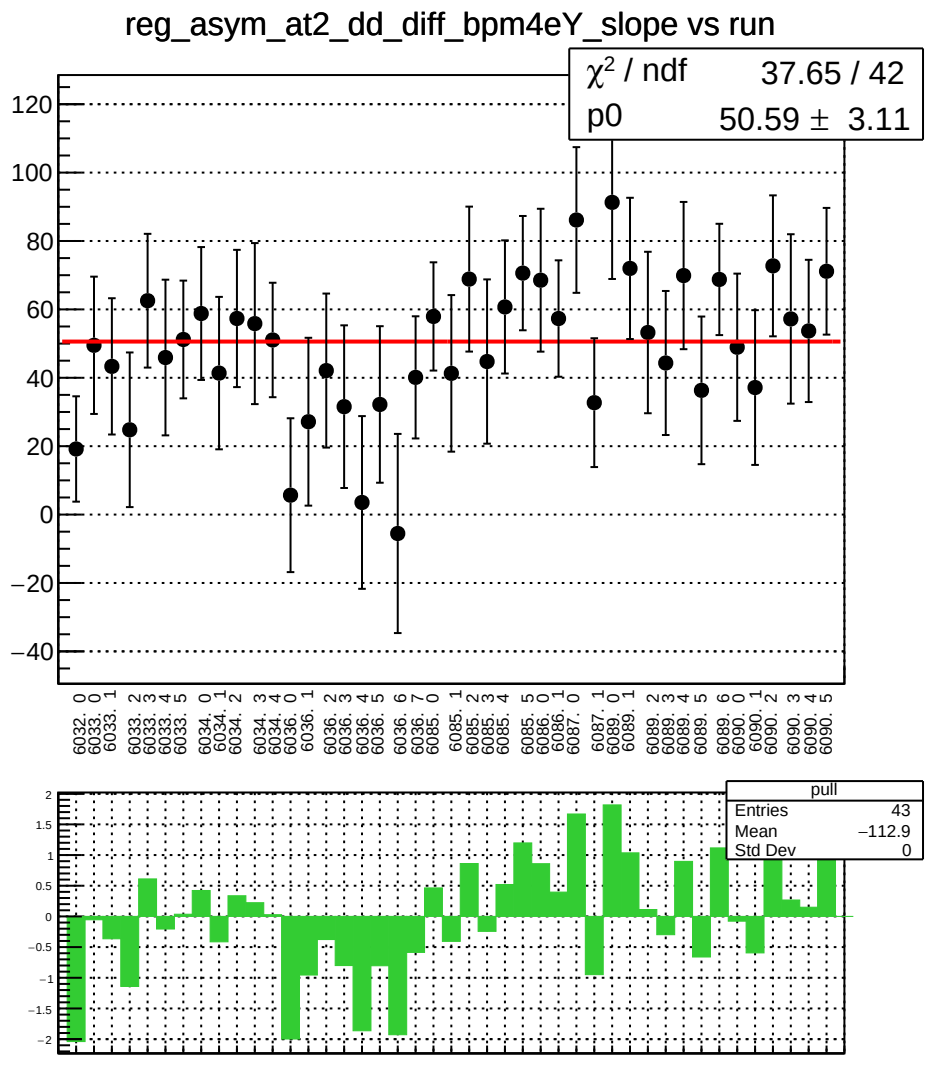

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.37 / 42
p0 −55.44 ± 2.806
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −11.88
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

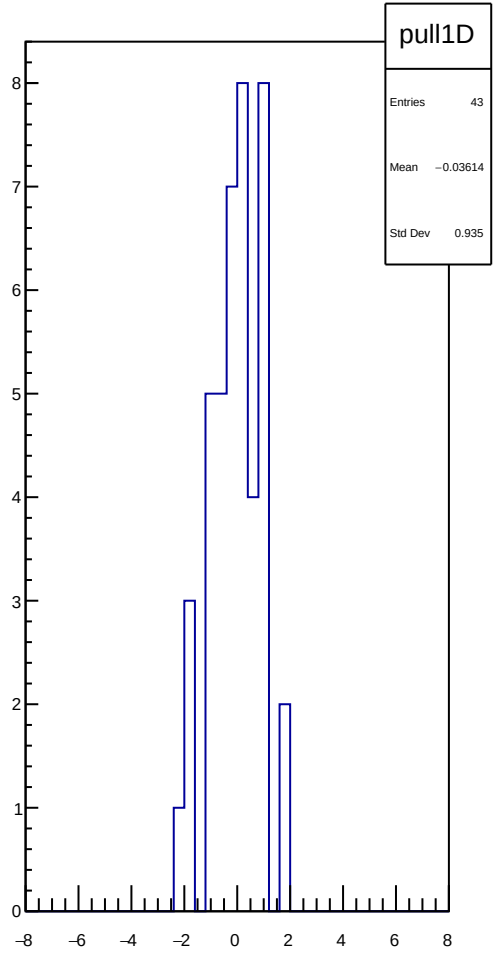

pull1D
Entries 43
Mean −0.06768
Std Dev 0.8094
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

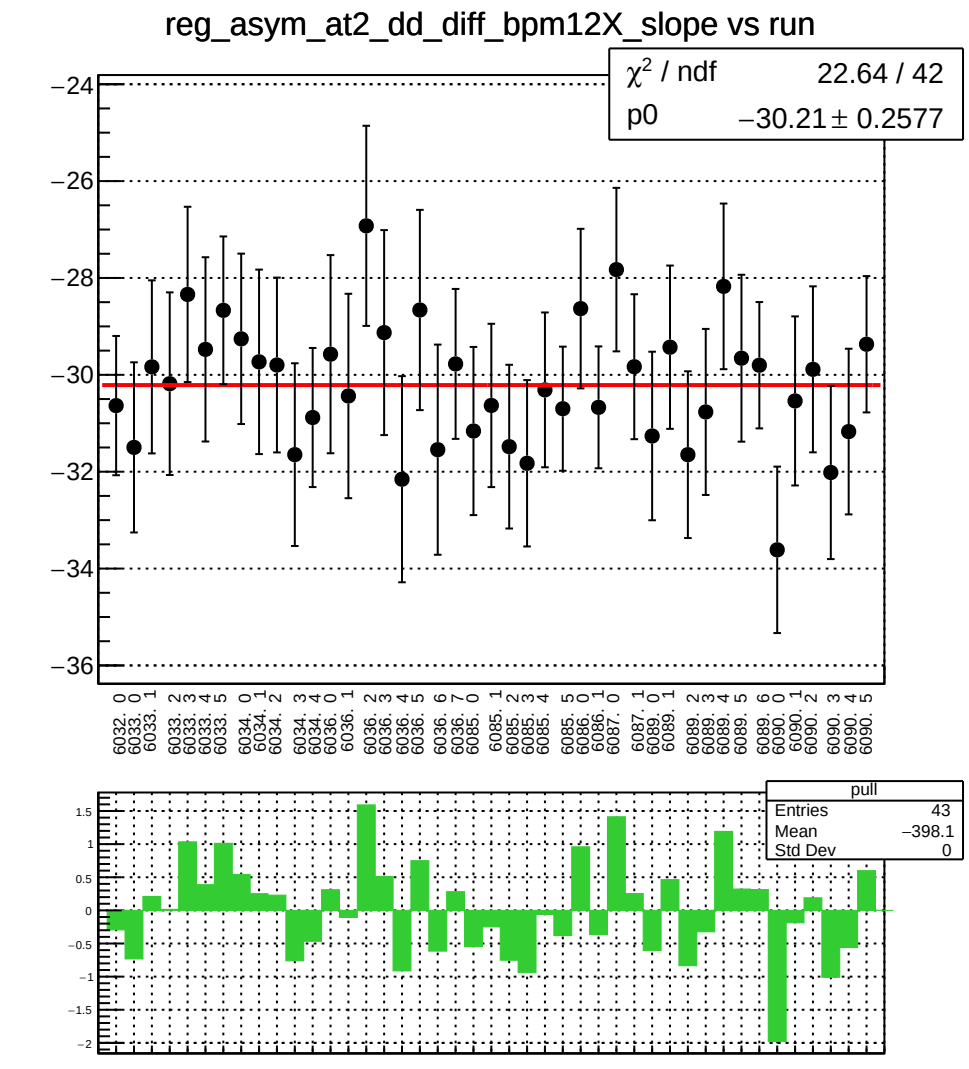

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.32 / 42
p0 −21.28 ± 2.885
pull
Entries 43
Mean −702.3
Std Dev 0

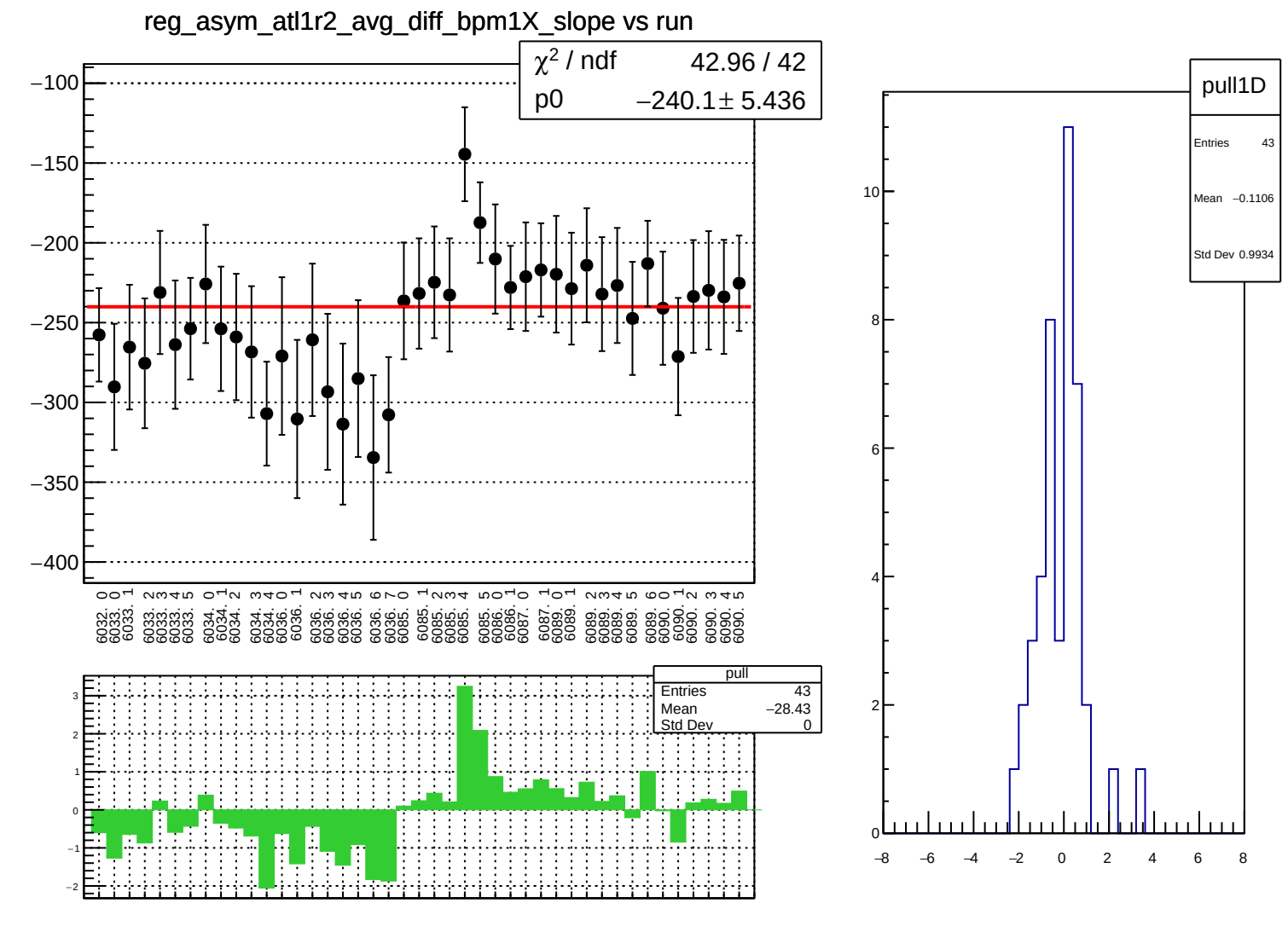

pull1D
Entries 43
Mean 0.005922
Std Dev 0.8534

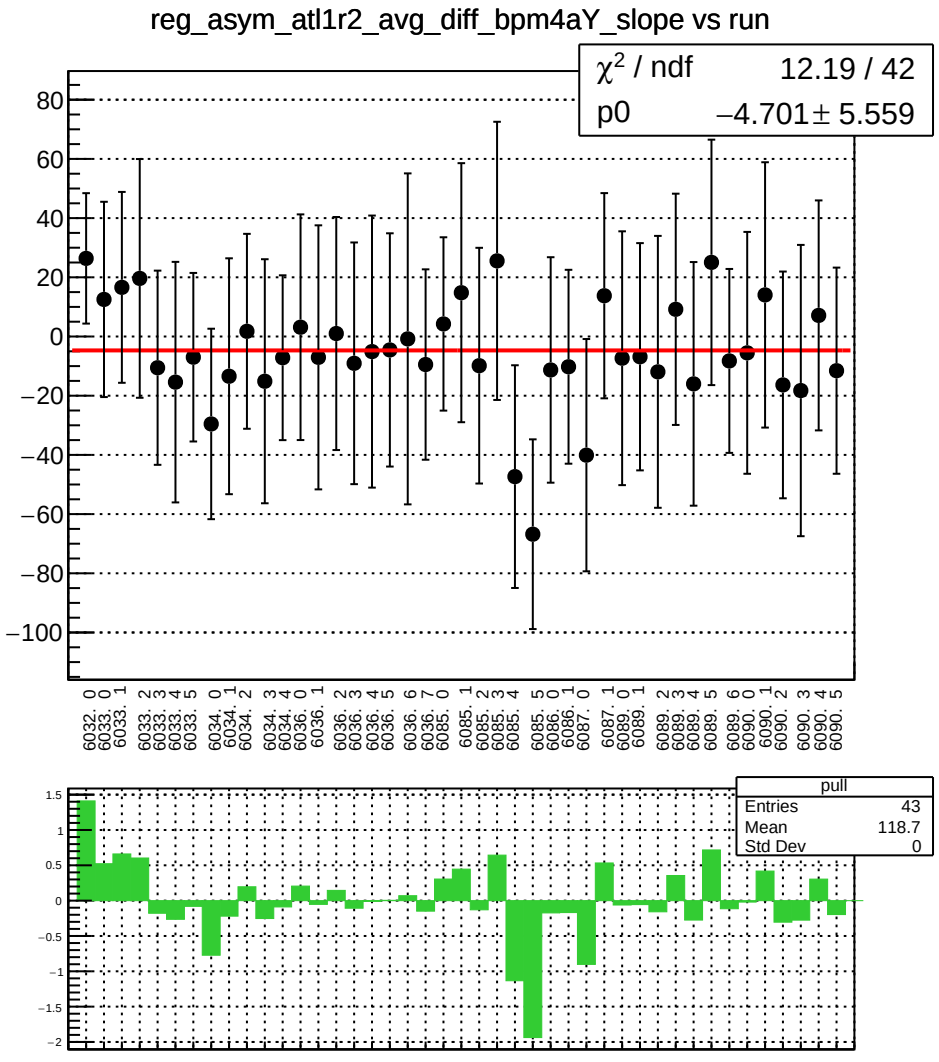

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.56 / 42
p0 150.8 ± 3.144
220
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 32.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.03002
Std Dev 0.7396
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

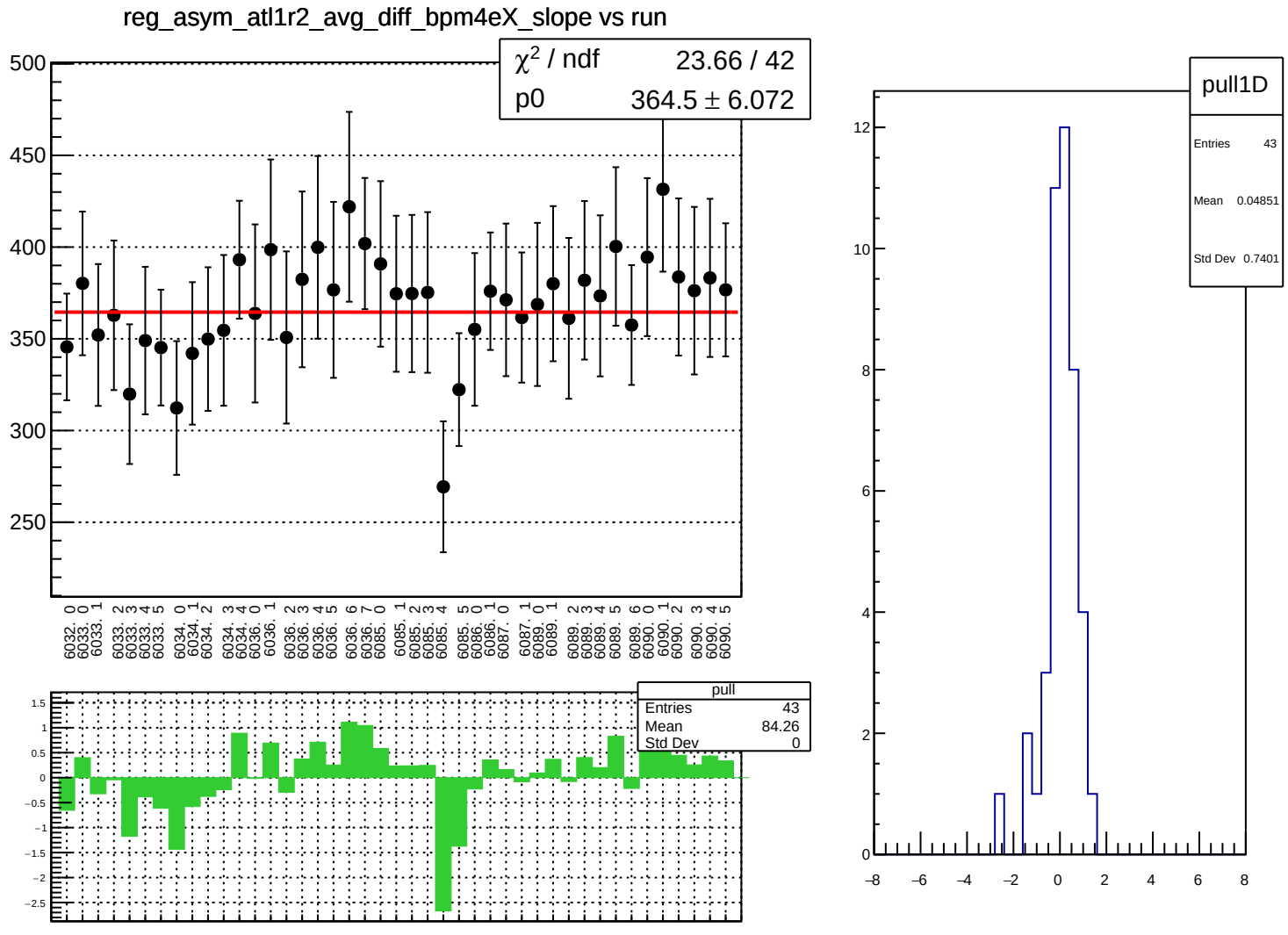

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.65 / 42
p0 50.59 ± 3.11
pull
Entries 43
Mean −112.9
Std Dev 0

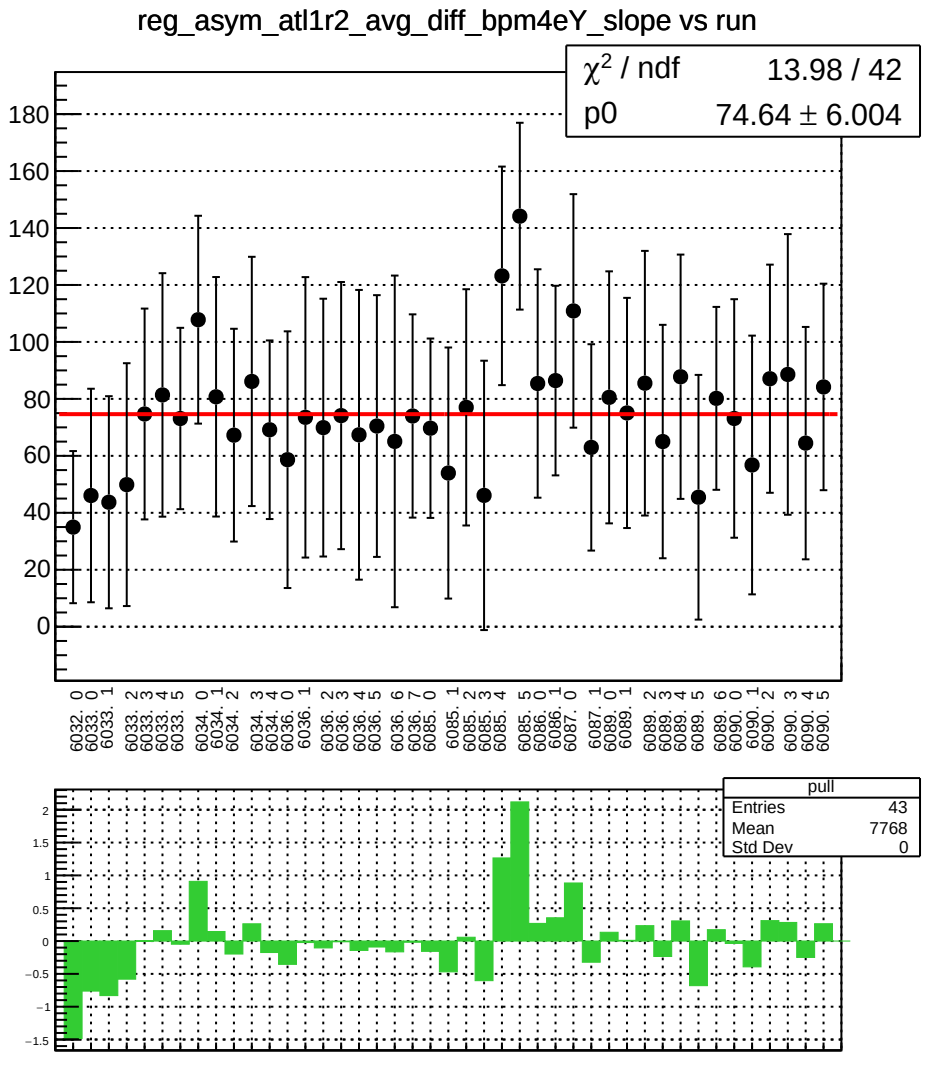

pull1D
Entries 43
Mean −0.03614
Std Dev 0.935

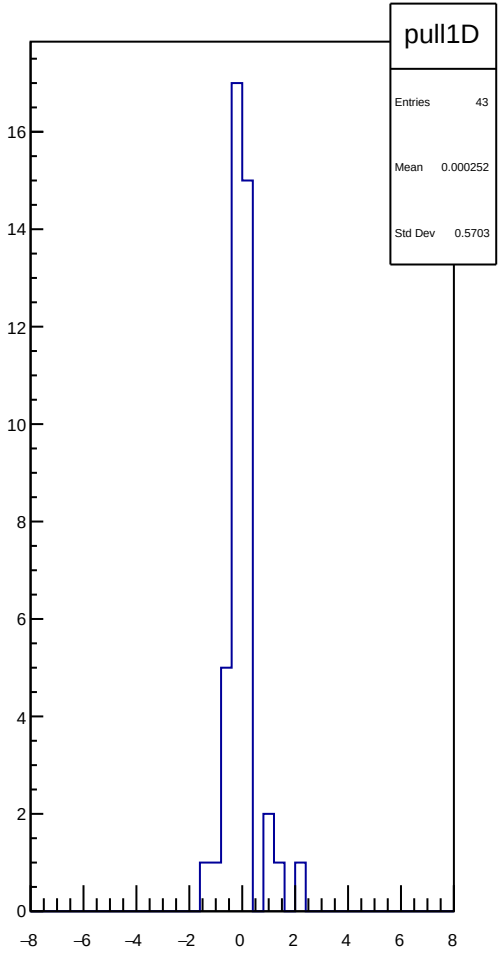

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.64 / 42
p0 −30.21 ± 0.2577
−24
−26
−28
−30
−32
−34
−36
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −398.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003546
Std Dev 0.7255
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

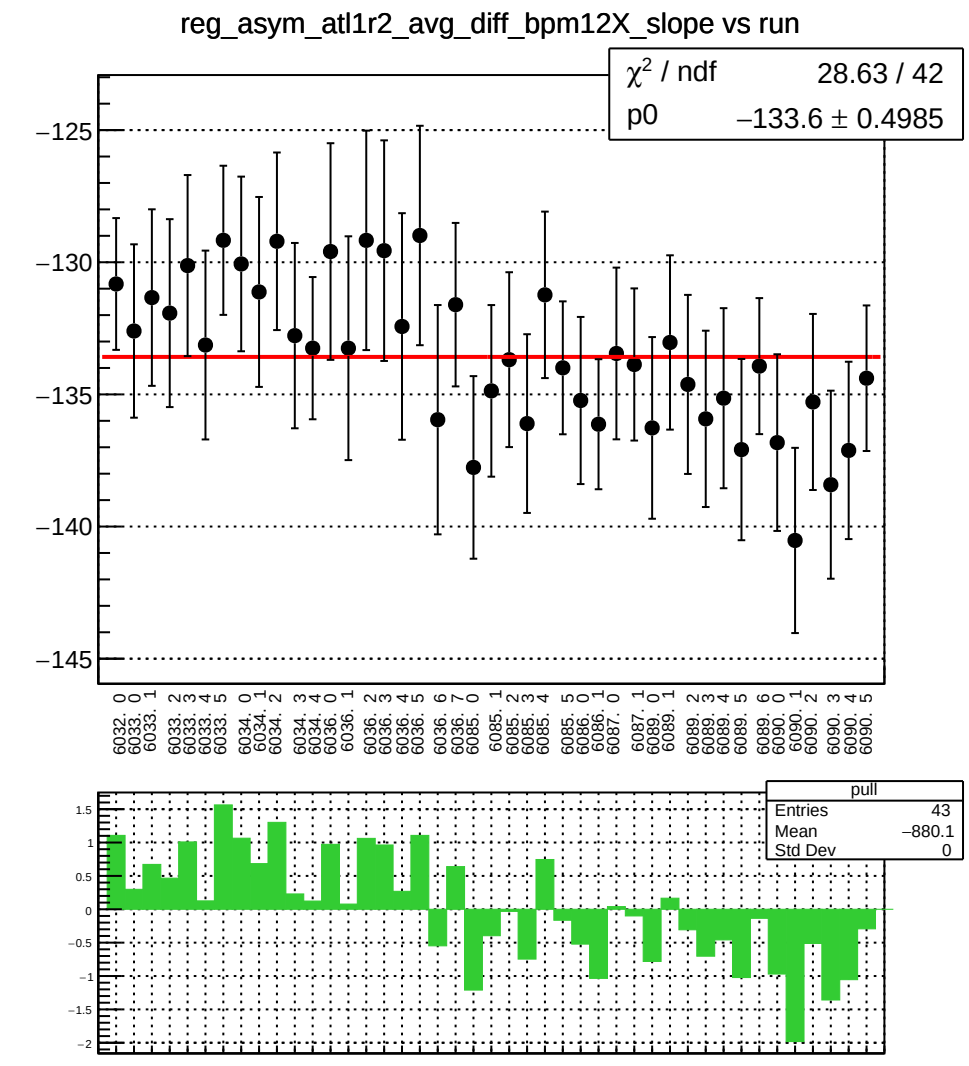

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 42.96 / 42
p0 −240.1 ± 5.436
−100
−150
−200
−250
−300
−350
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −28.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1106
Std Dev 0.9934
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

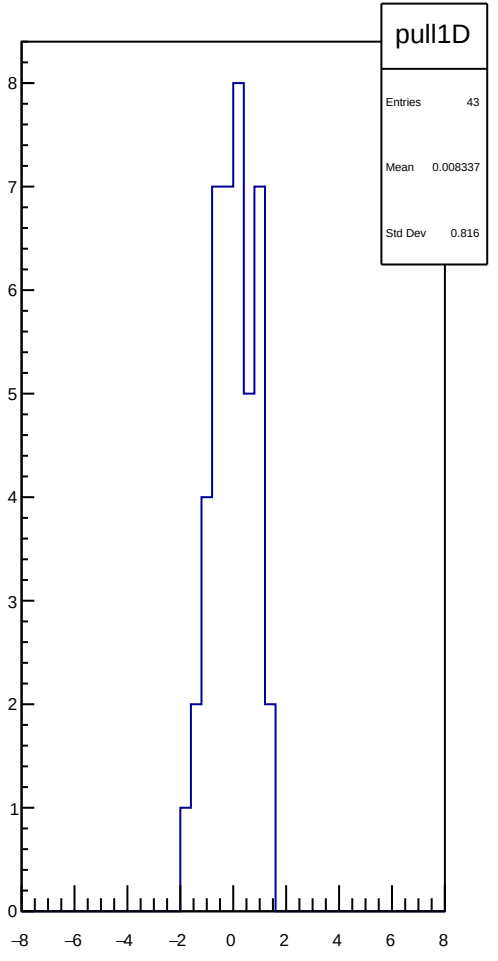

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.19 / 42
p0 −4.701 ± 5.559
pull
Entries 43
Mean 118.7
Std Dev 0
pull1D
Entries 43
Mean −0.01239
Std Dev 0.5322

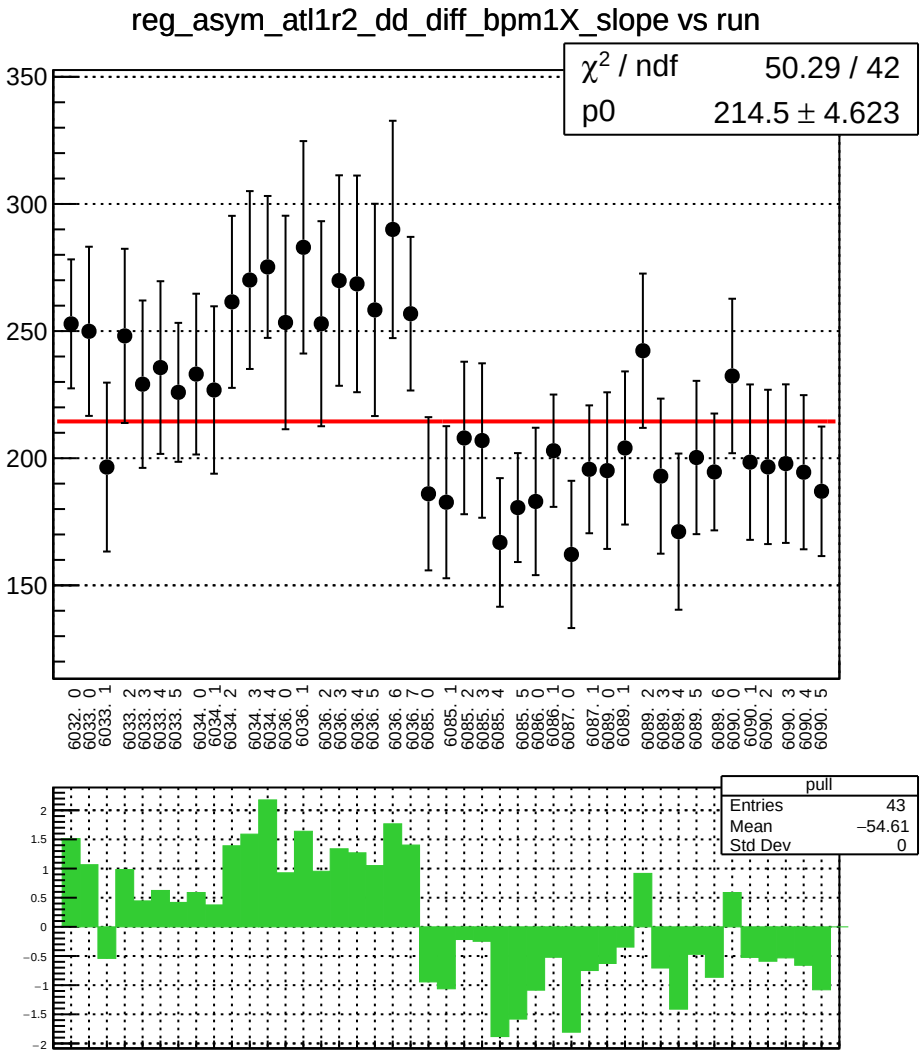

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.66 / 42
p0 364.5 ± 6.072
500
450
400
350
300
250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 84.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04851
Std Dev 0.7401
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

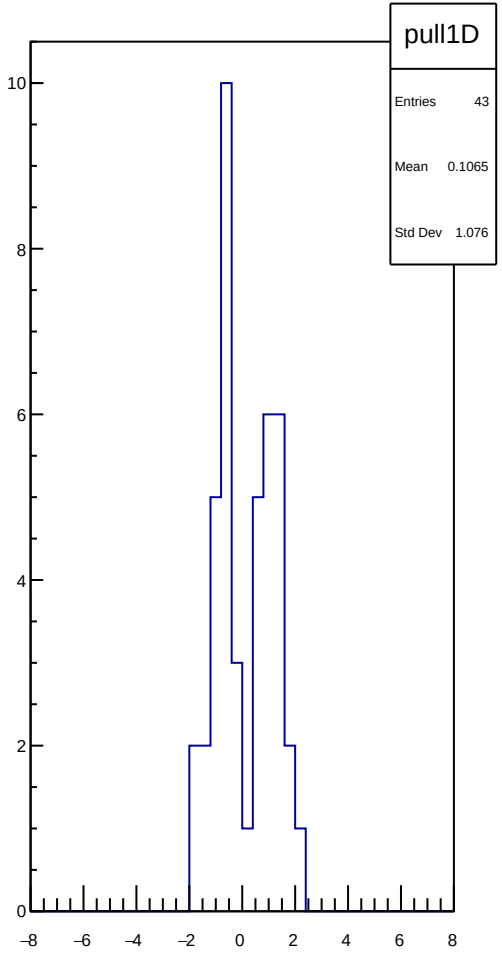

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.98 / 42
p0 74.64 ± 6.004
pull
Entries 43
Mean 7768
Std Dev 0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

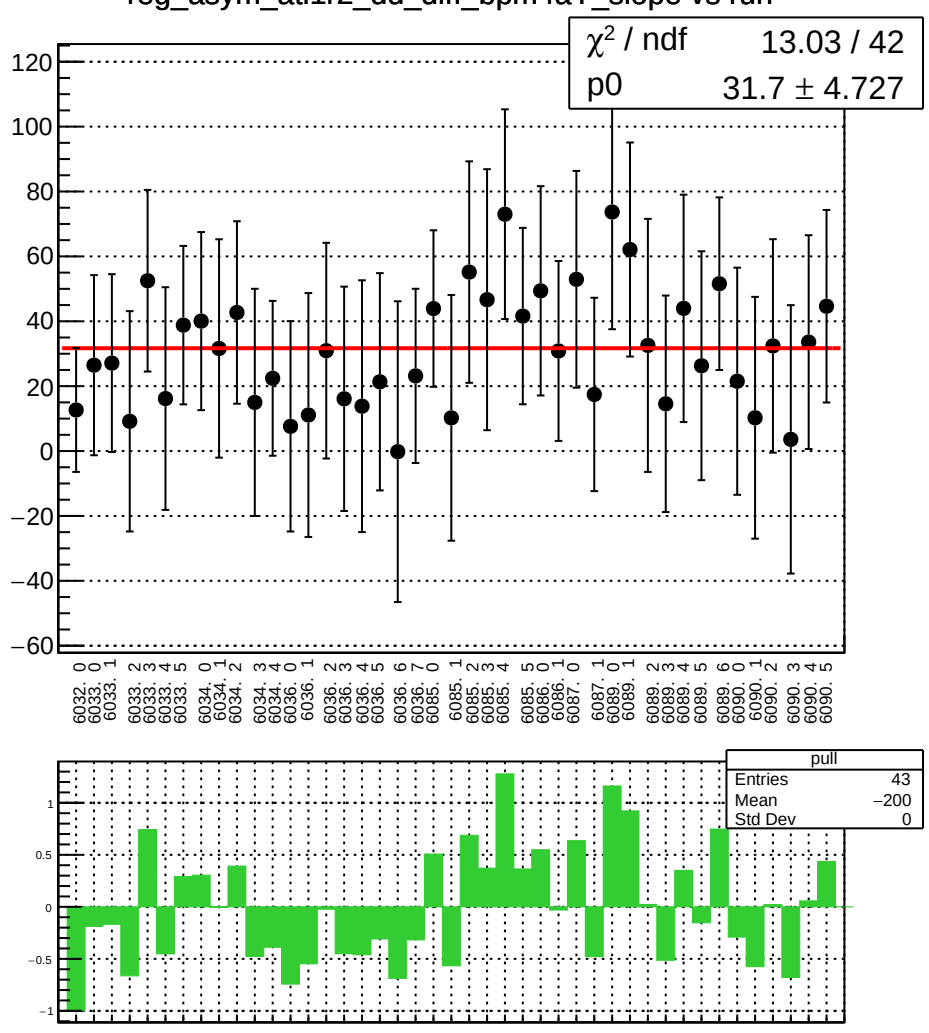

pull1D
Entries 43
Mean 0.000252
Std Dev 0.5703

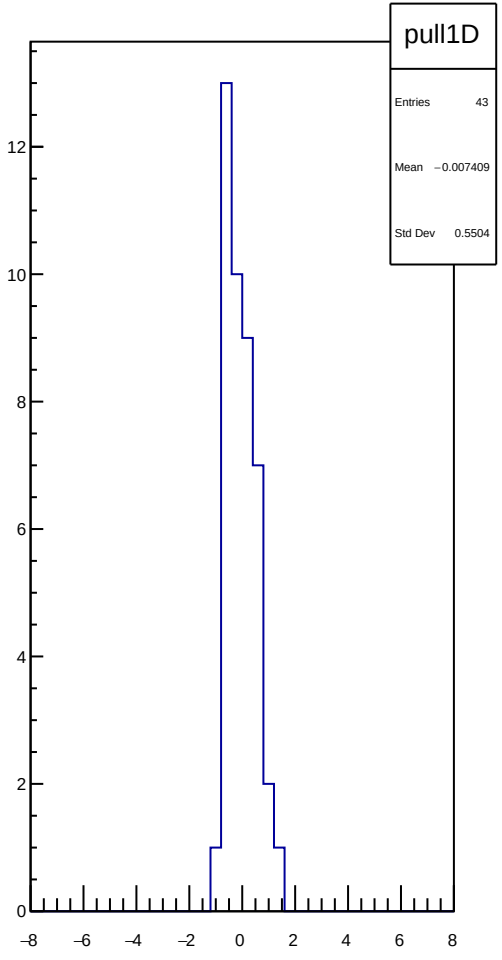

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 28.63 / 42
p0 −133.6 ± 0.4985
−125
−130
−135
−140
−145
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −880.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

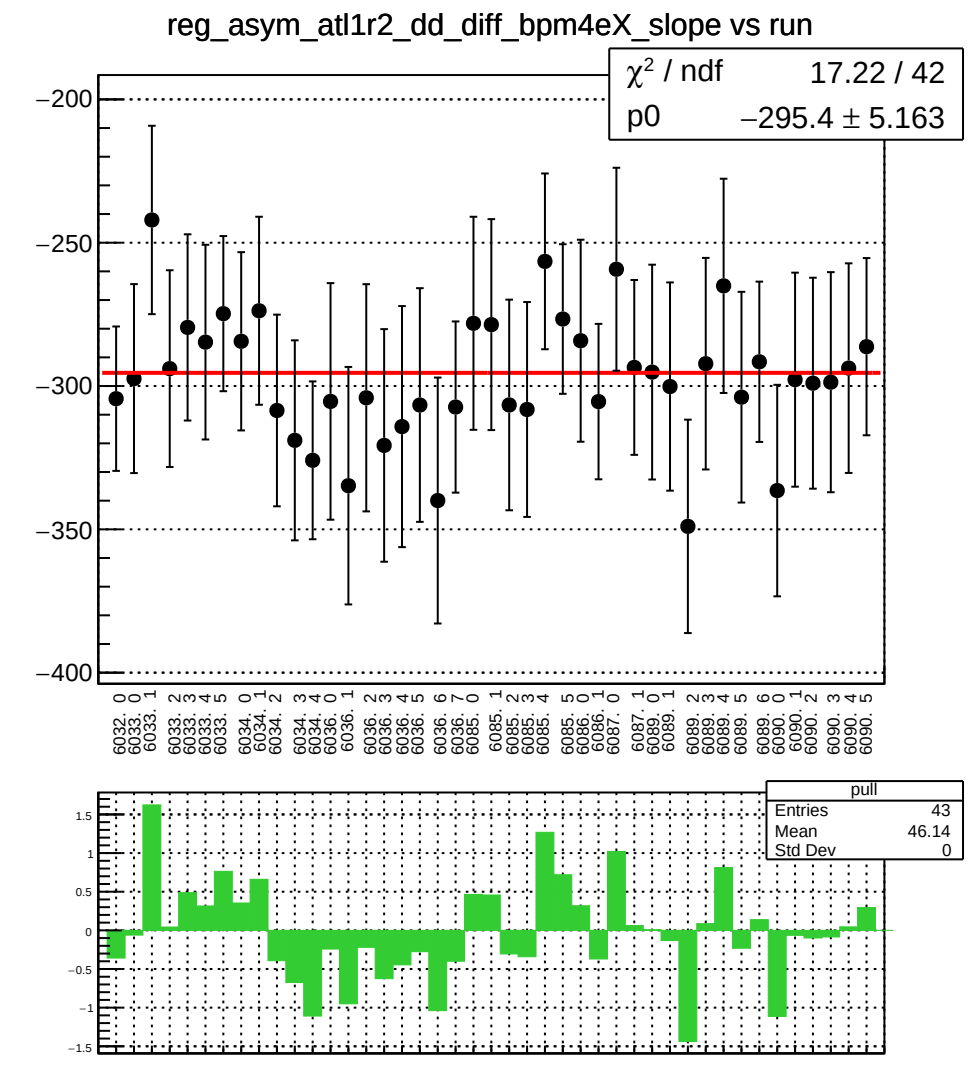

pull1D
Entries 43
Mean 0.008337
Std Dev 0.816
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

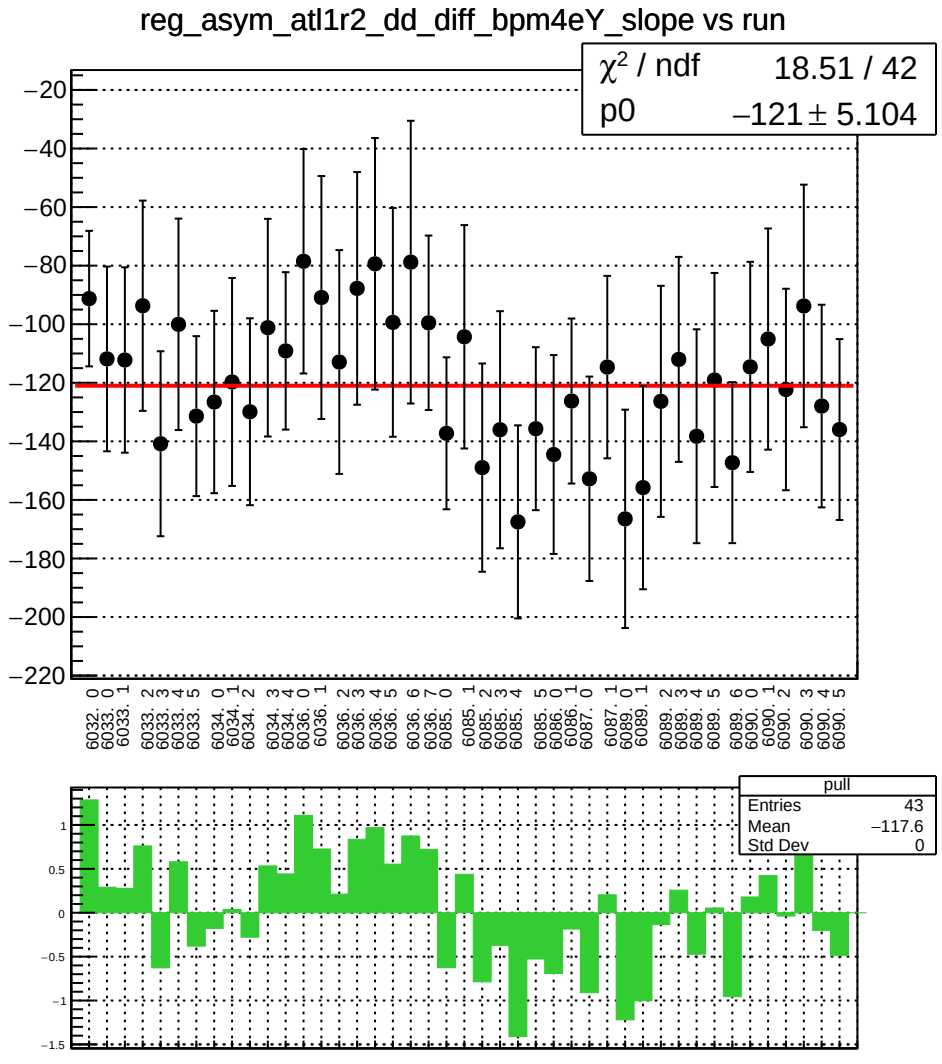

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 50.29 / 42
p0 214.5 ± 4.623
350
300
250
200
150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −54.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

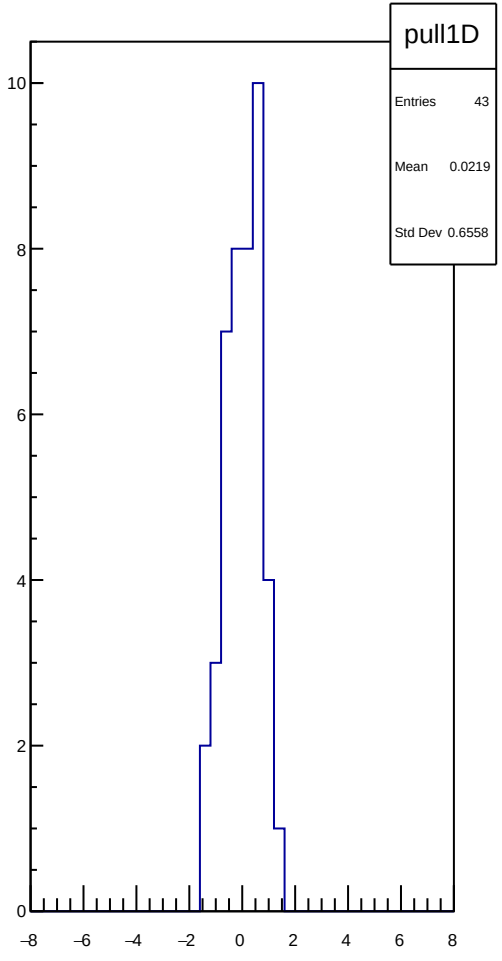

pull1D
Entries 43
Mean 0.1065
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

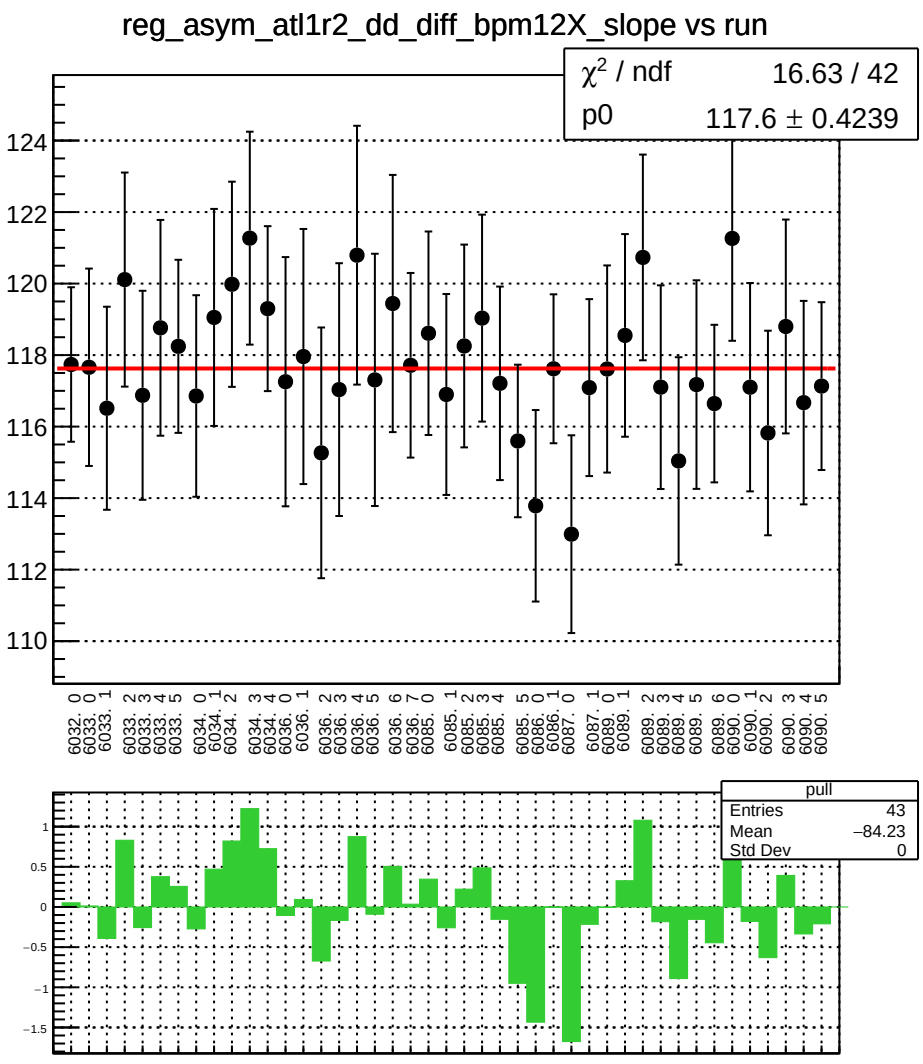

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.03 / 42
p0 31.7 ± 4.727
pull
Entries 43
Mean −200
Std Dev 0

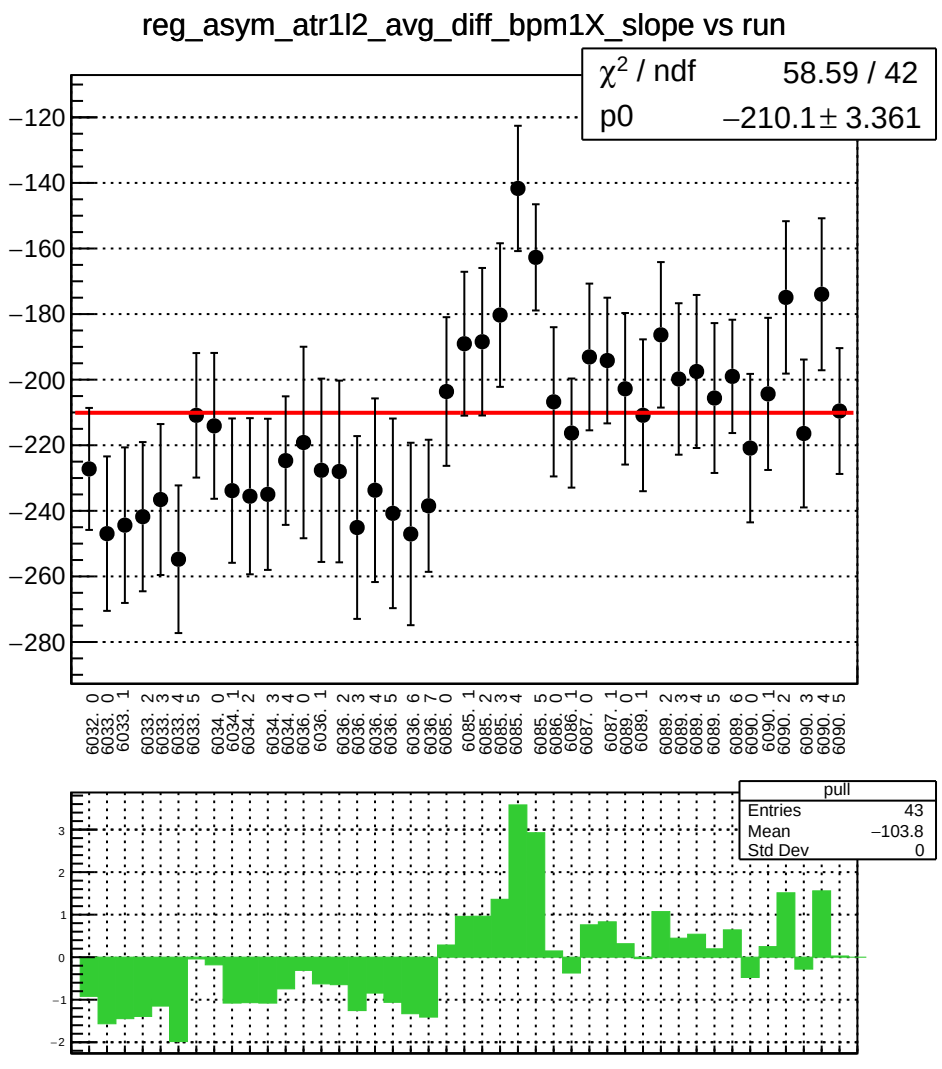

pull1D
Entries 43
Mean −0.007409
Std Dev 0.5504

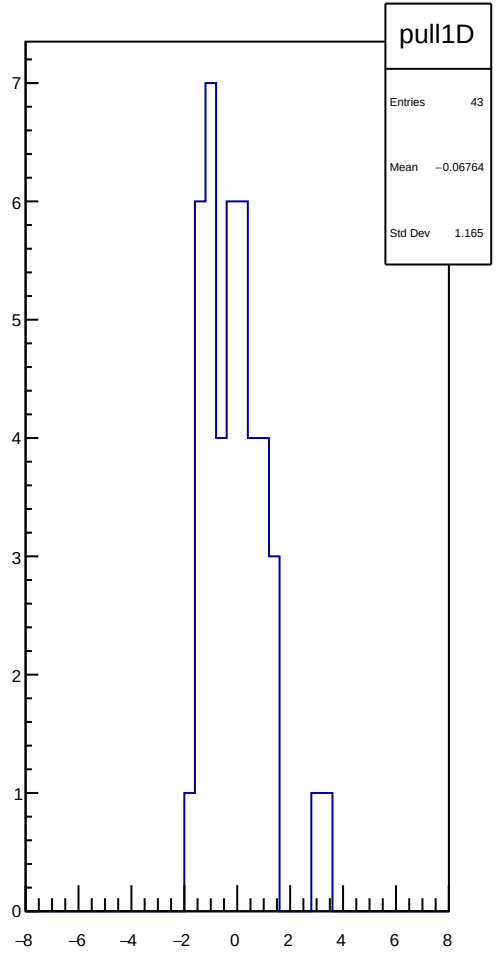

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.22 / 42
p0 −295.4 ± 5.163
−200
−250
−300
−350
−400
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 46.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02384
Std Dev 0.6324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

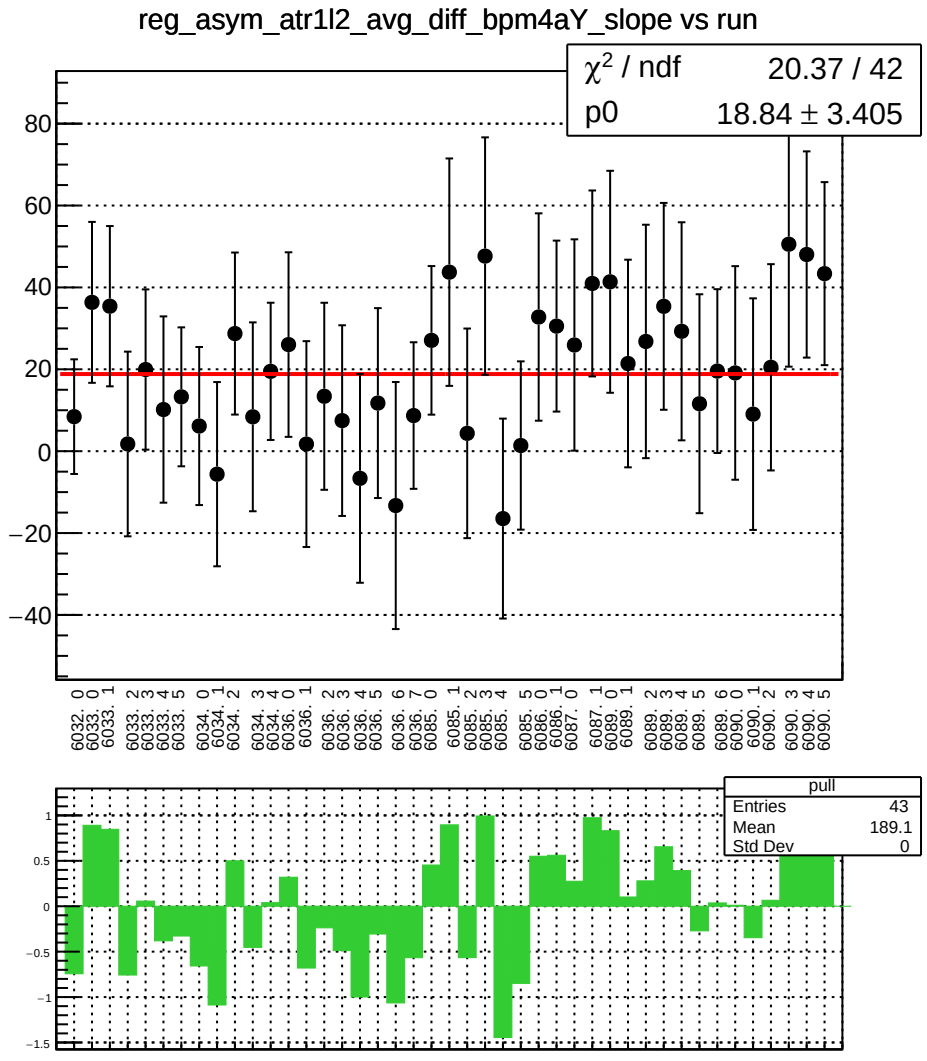

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.51 / 42
p0 −121 ± 5.104
pull
Entries 43
Mean −117.6
Std Dev 0

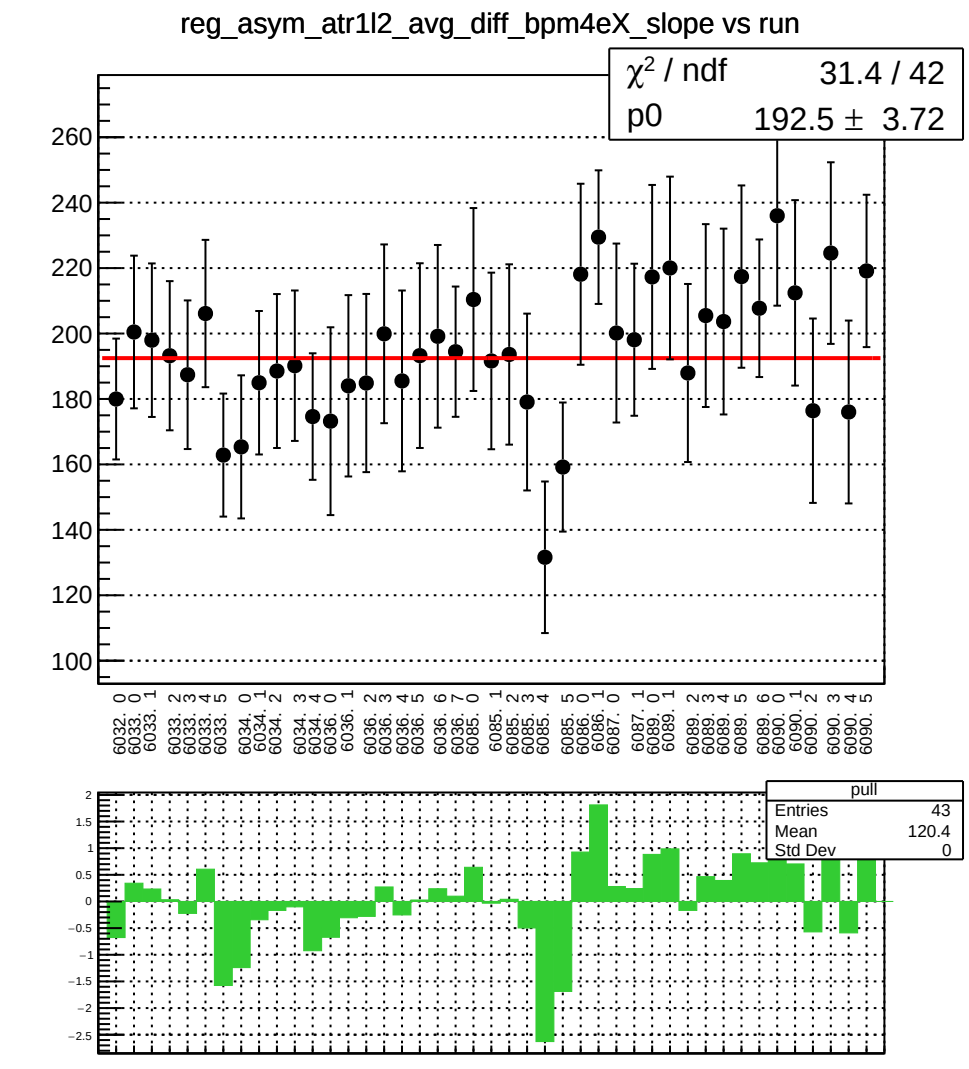

pull1D
Entries 43
Mean 0.0219
Std Dev 0.6558

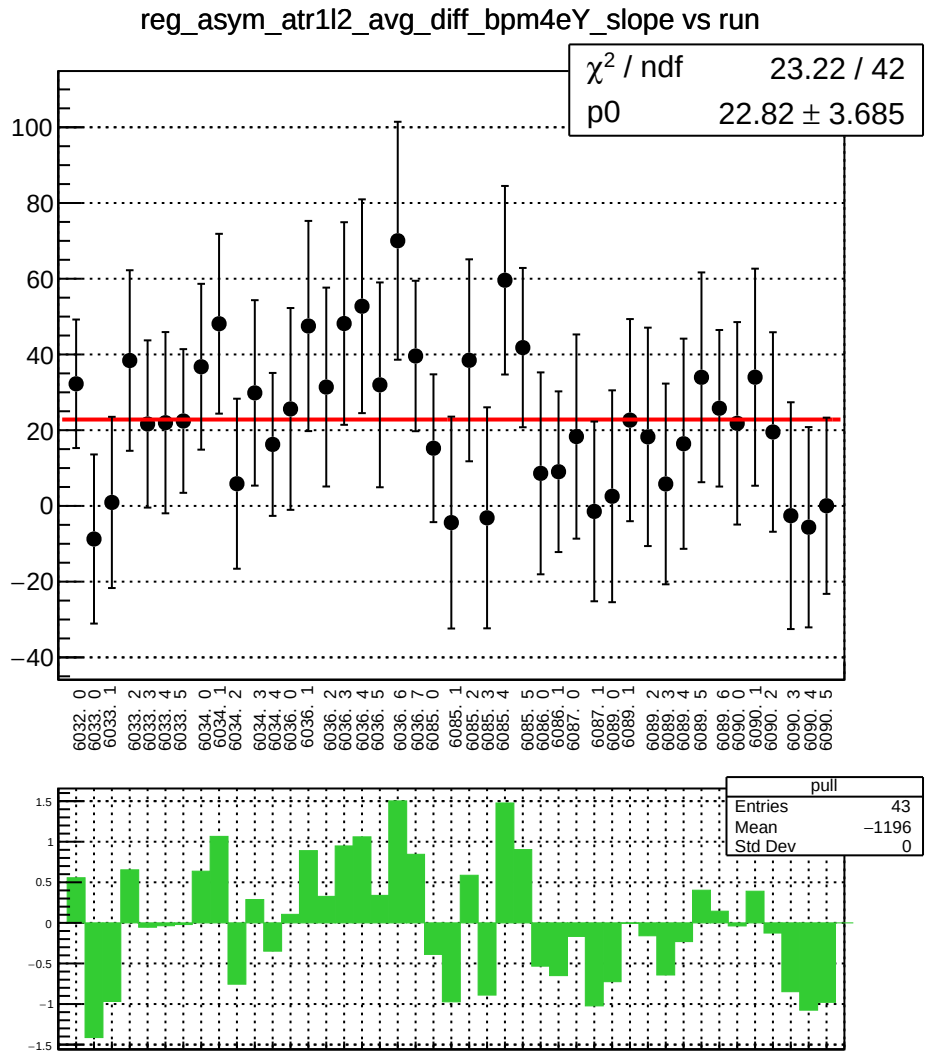

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.63 / 42
p0 117.6 ± 0.4239
124
122
120
118
116
114
112
110
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −84.23
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01677
Std Dev 0.6217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

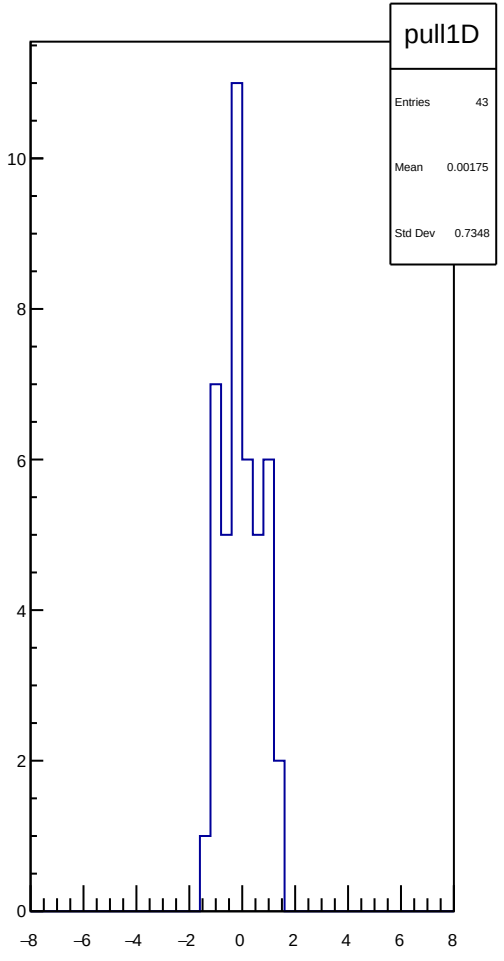

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 58.59 / 42
p0 −210.1 ± 3.361
pull
Entries 43
Mean −103.8
Std Dev 0

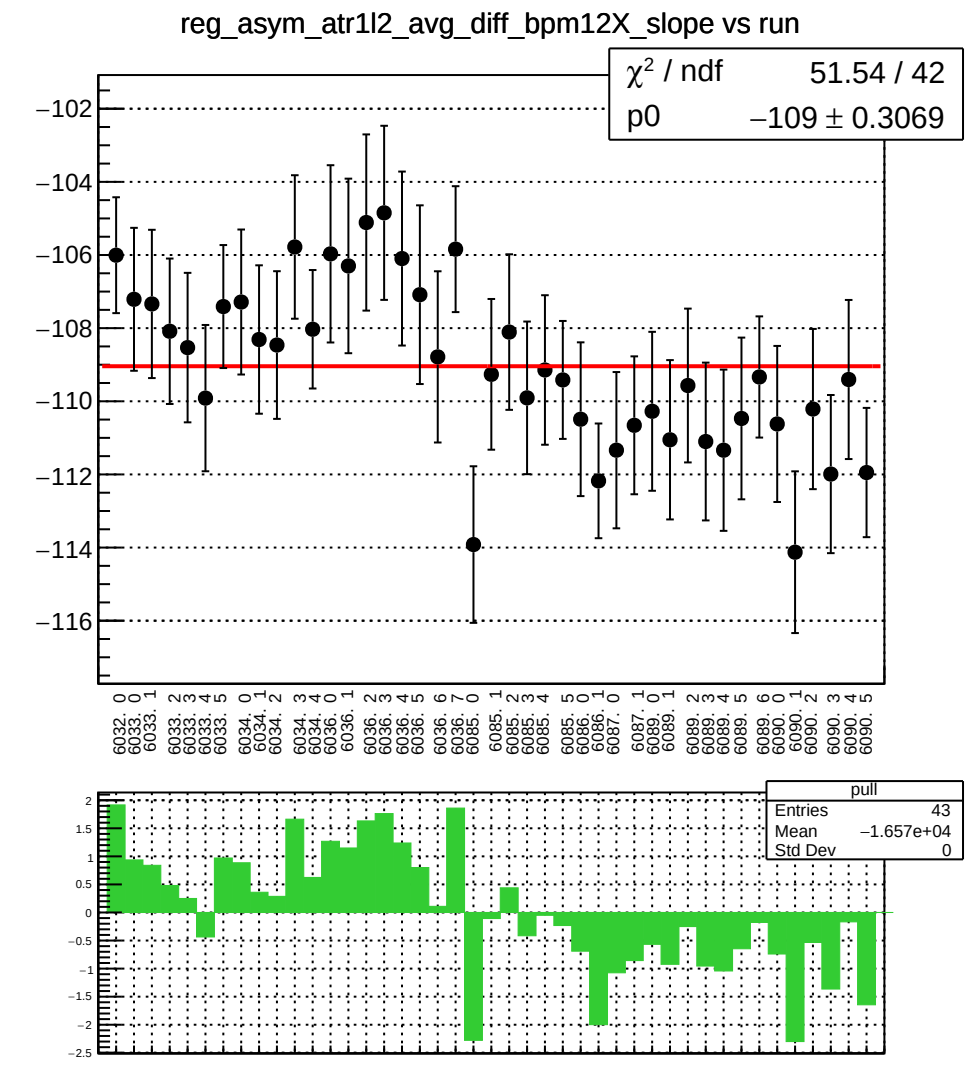

pull1D
Entries 43
Mean −0.06764
Std Dev 1.165

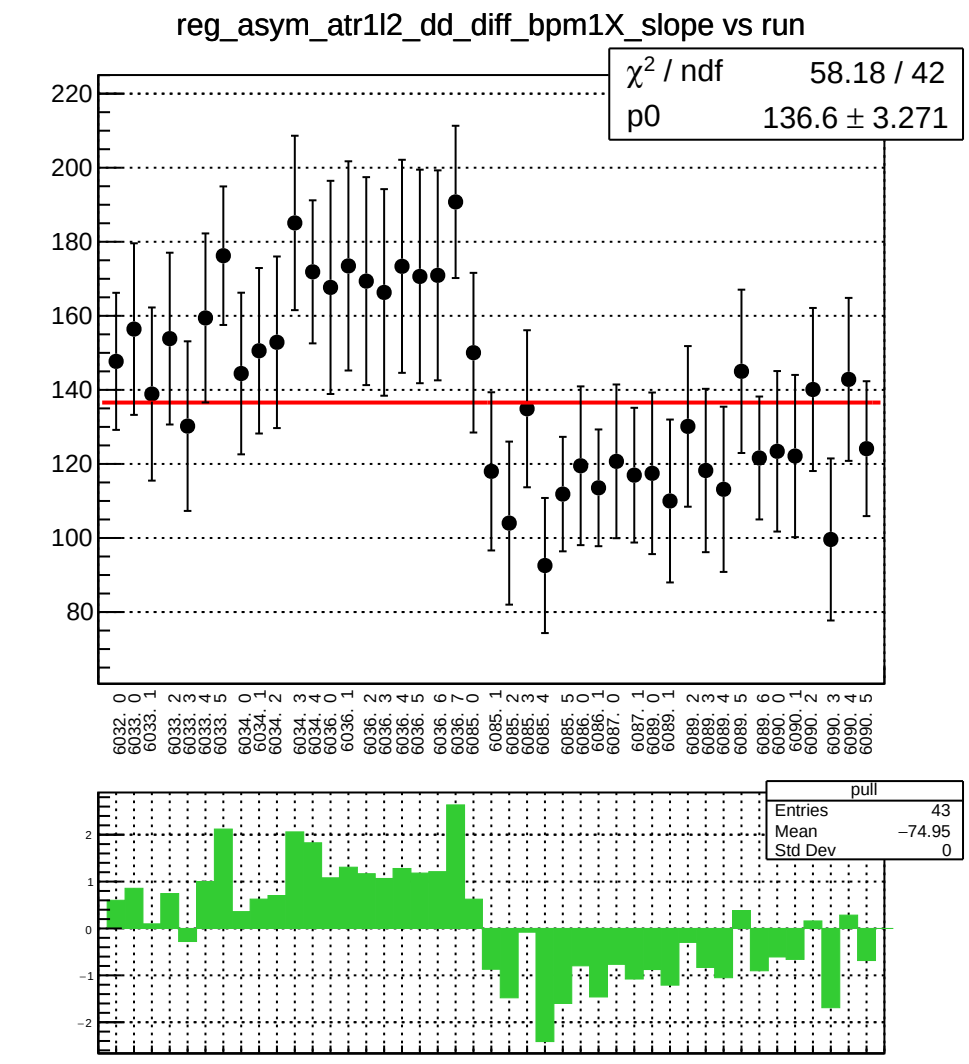

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.37 / 42
p0 18.84 ± 3.405
80
60
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 189.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01904
Std Dev 0.688
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

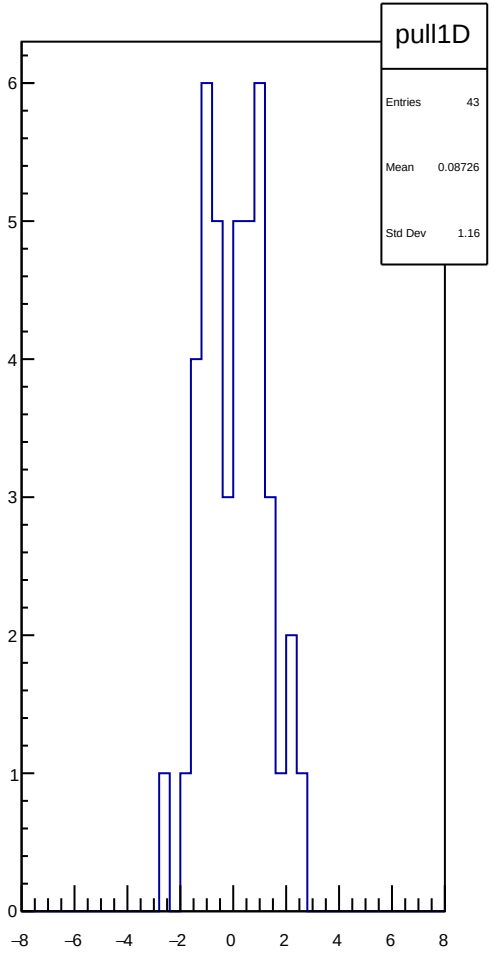

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.4 / 42
p0 192.5 ± 3.72
260
240
220
200
180
160
140
120
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 120.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04182
Std Dev 0.8535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

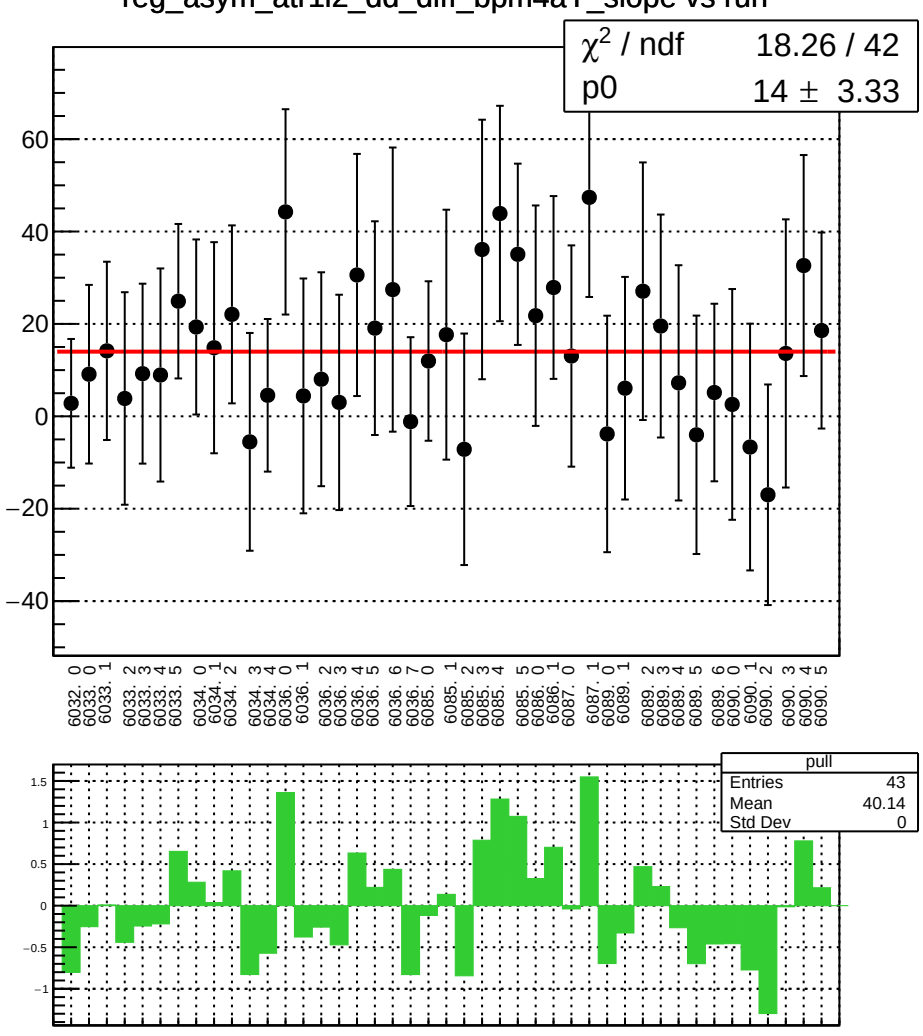

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.22 / 42
p0 22.82 ± 3.685
pull
Entries 43
Mean −1196
Std Dev 0

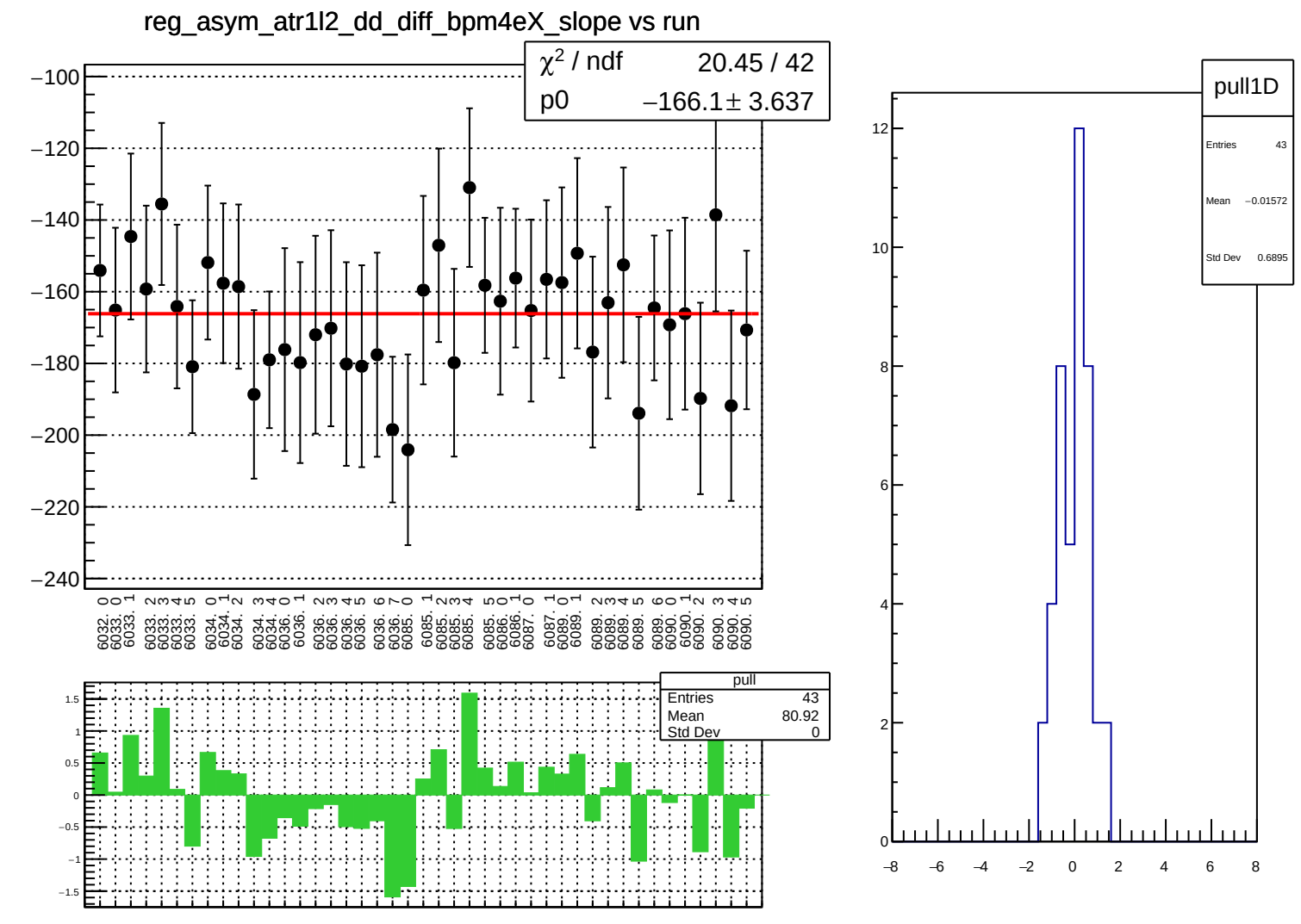

pull1D
Entries 43
Mean 0.00175
Std Dev 0.7348

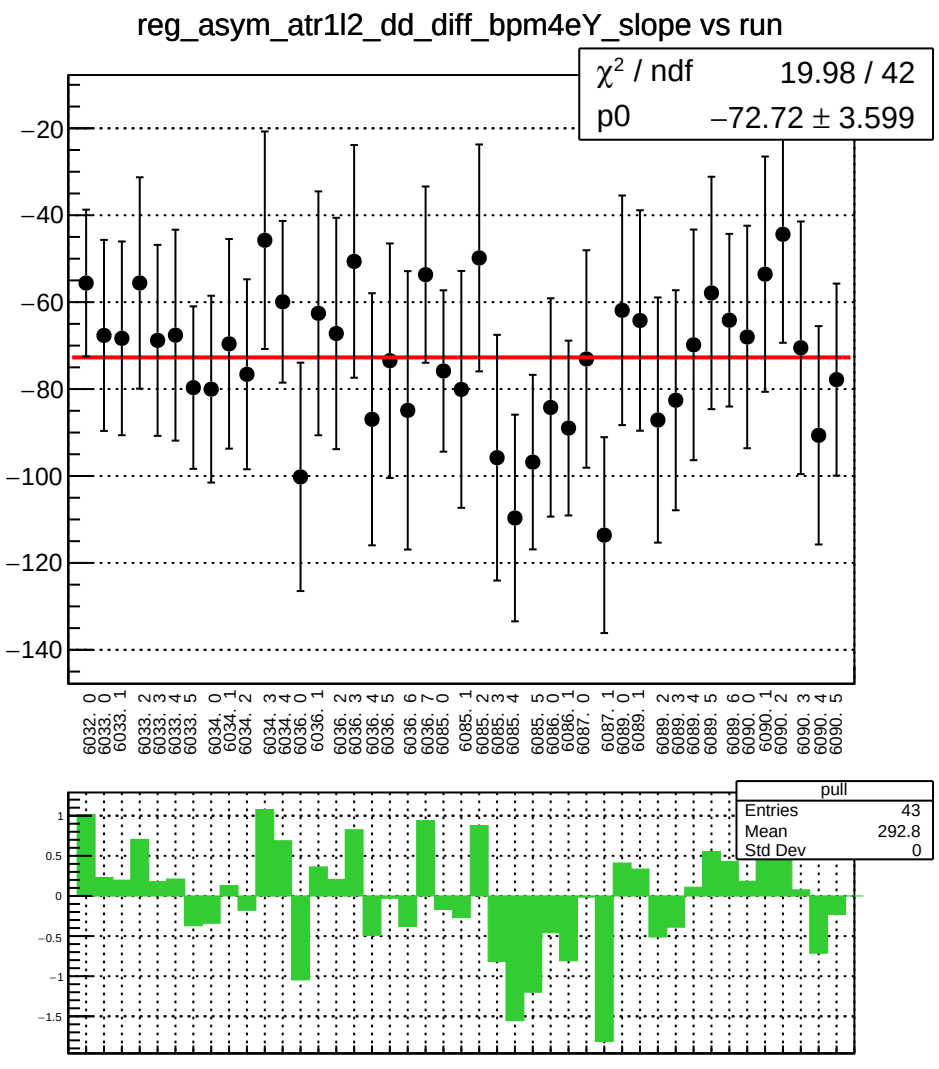

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 51.54 / 42
p0 −109 ± 0.3069
−102
−104
−106
−108
−110
−112
−114
−116
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.657e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.0005658
Std Dev 1.095
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

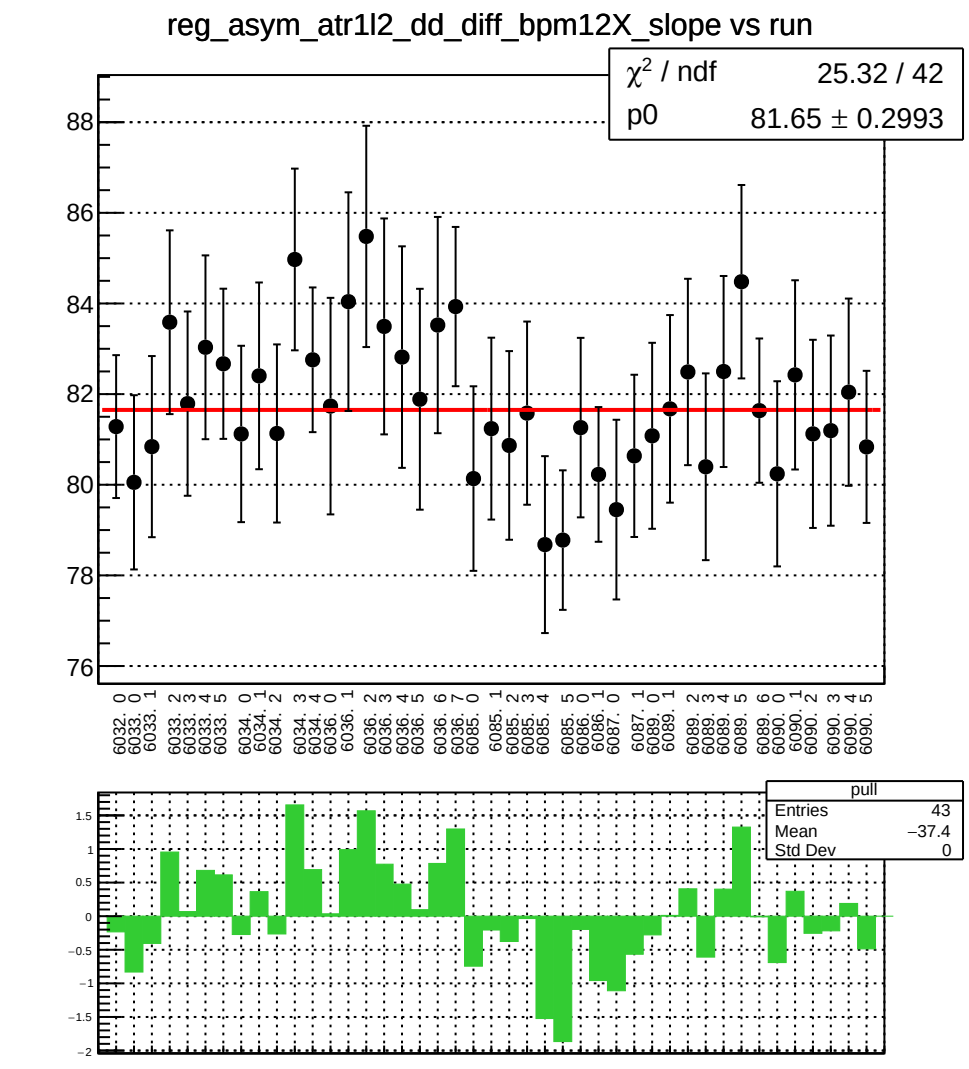

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 58.18 / 42
p0 136.6 ± 3.271
220
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −74.95
Std Dev 0
2
1
0
−1
−2

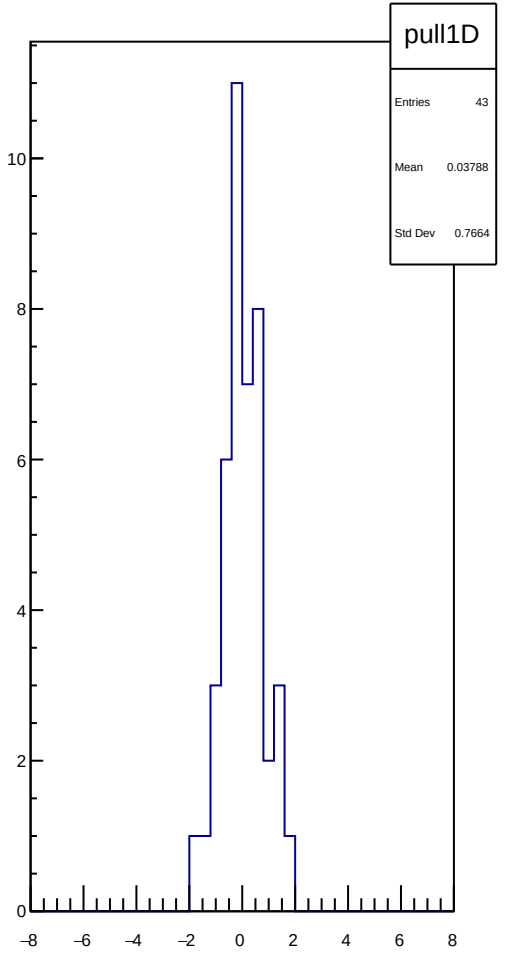

pull1D
Entries 43
Mean 0.08726
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

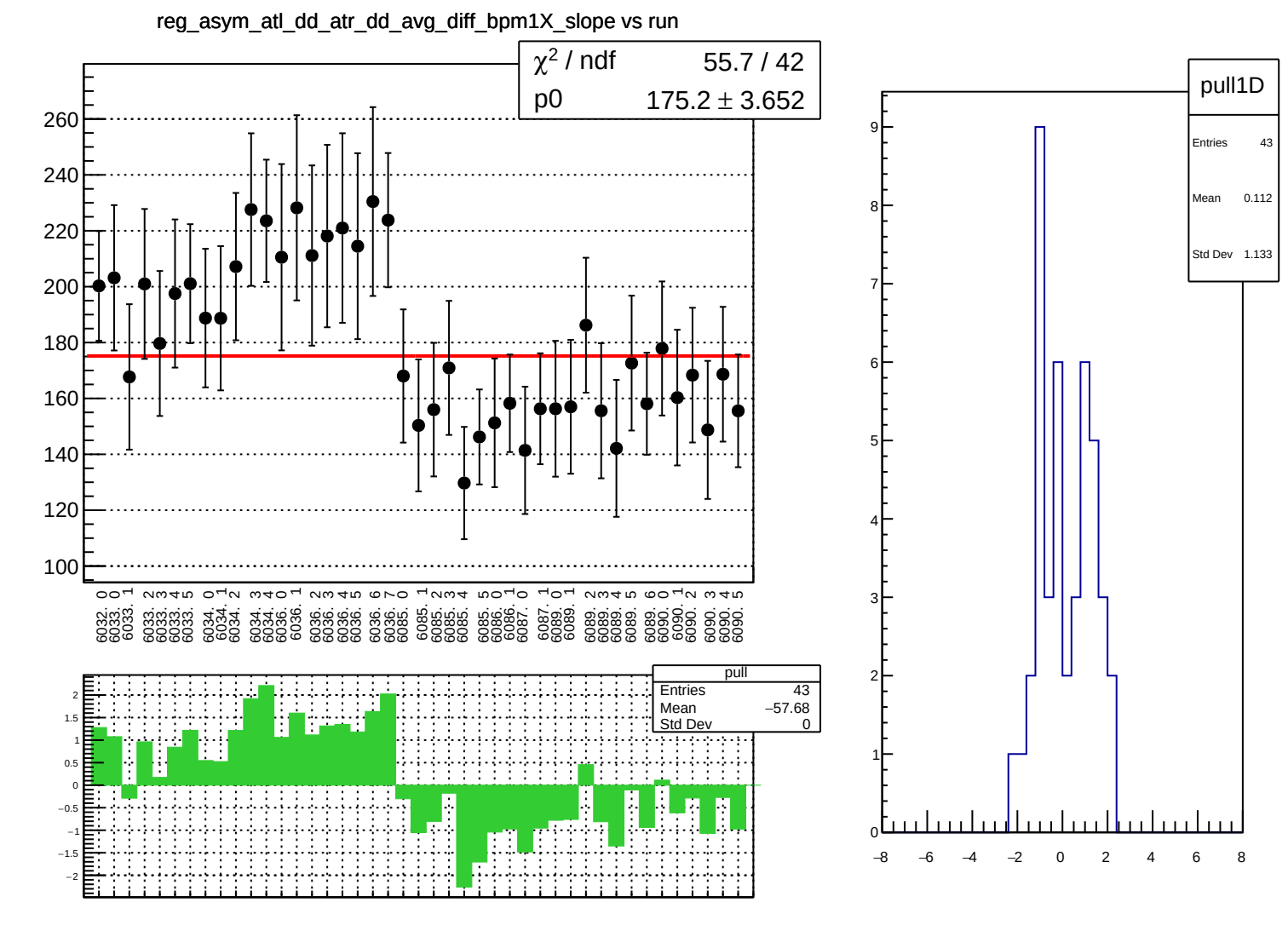

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.26 / 42
p0 14 ± 3.33
pull
Entries 43
Mean 40.14
Std Dev 0
pull1D
Entries 43
Mean 0.007311
Std Dev 0.6516

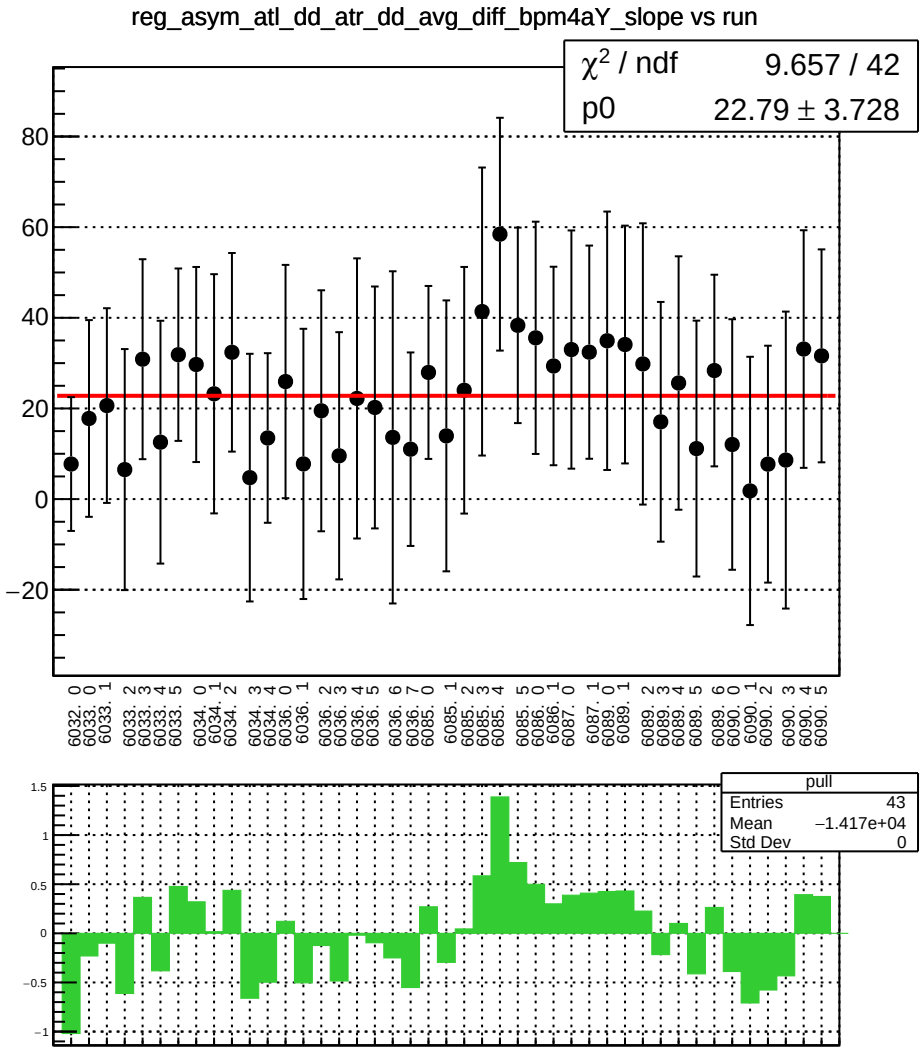

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.45 / 42
p0 −166.1± 3.637
−100
−120
−140
−160
−180
−200
−220
−240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 80.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01572
Std Dev 0.6895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

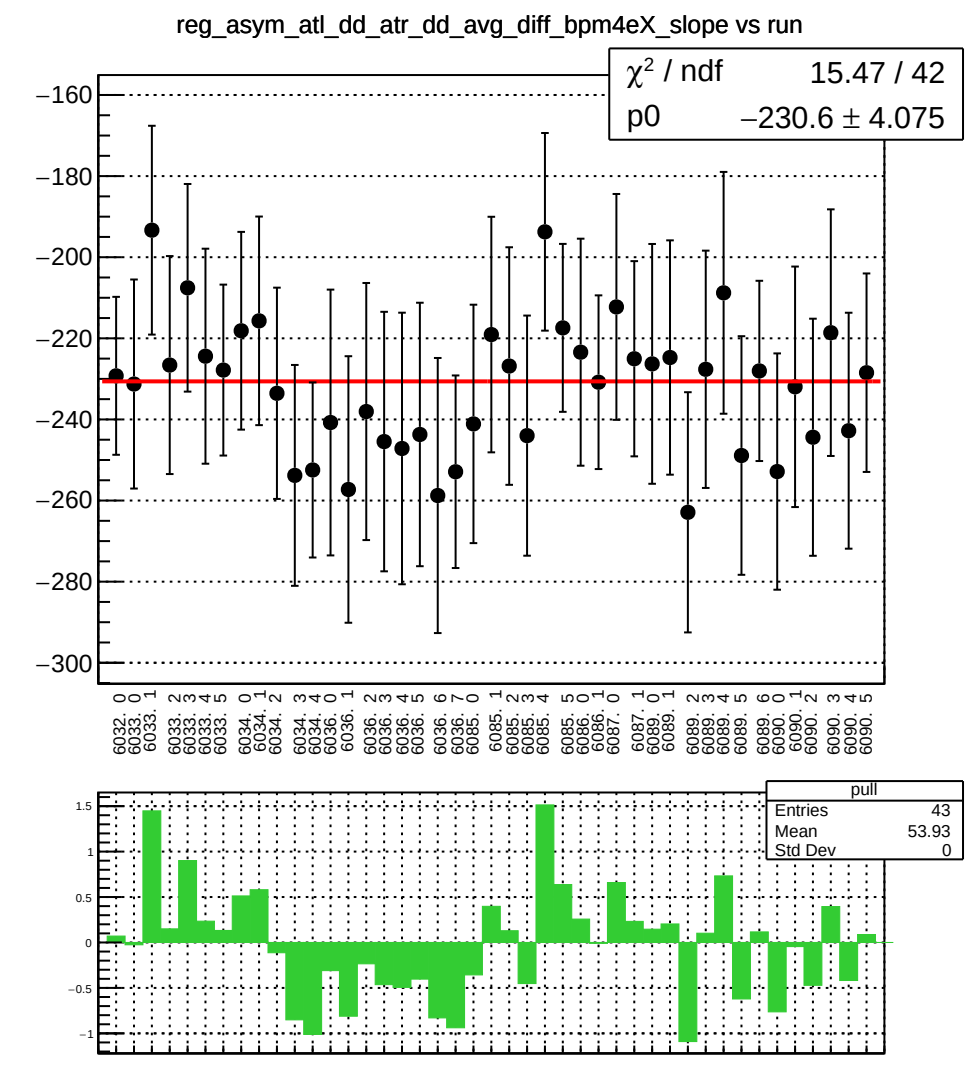

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.98 / 42
p0 −72.72 ± 3.599
−20
−40
−60
−80
−100
−120
−140
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 292.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.004834
Std Dev 0.6816
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

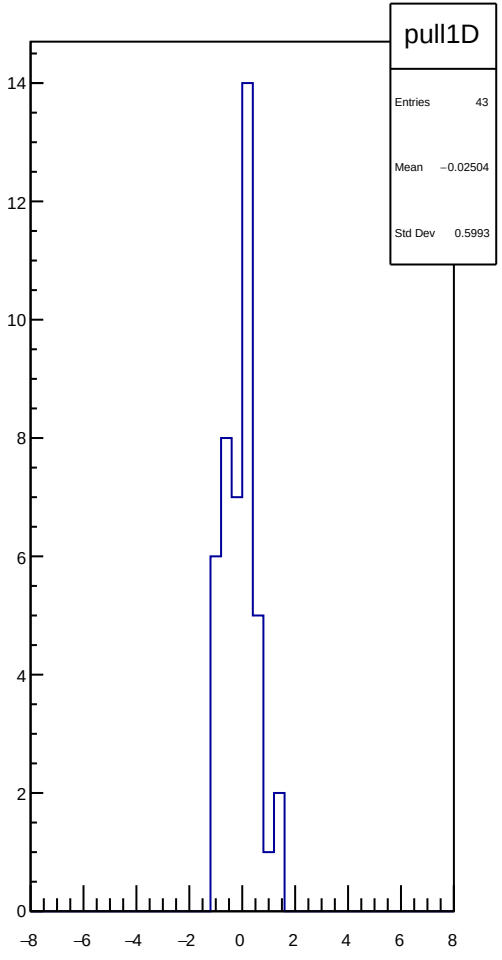

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 25.32 / 42
p0 81.65 ± 0.2993
88
86
84
82
80
78
76
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −37.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

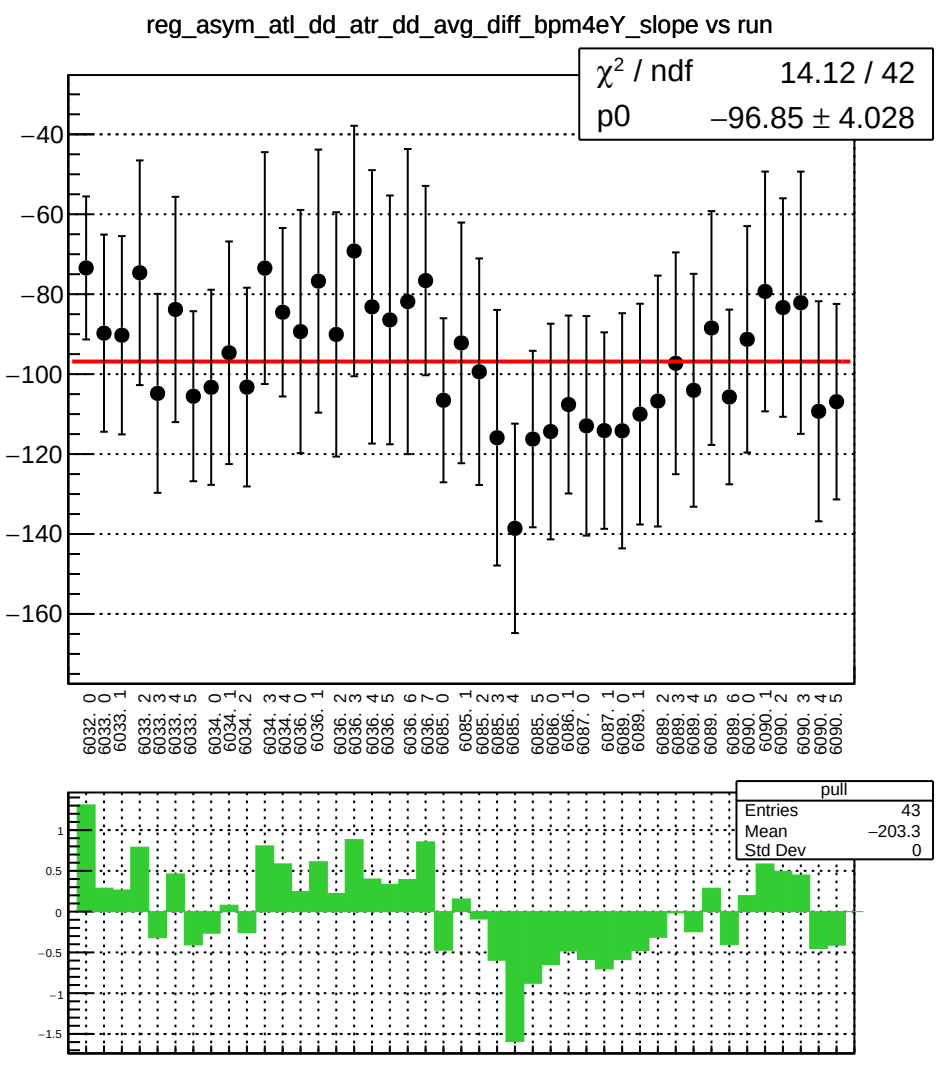

pull1D
Entries 43
Mean 0.03788
Std Dev 0.7664
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

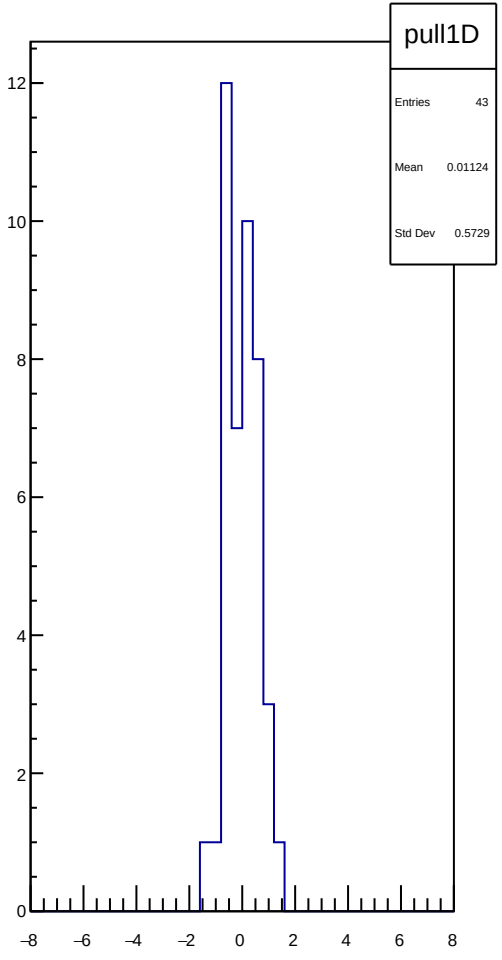

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 55.7 / 42
p0 175.2 ± 3.652
pull
Entries 43
Mean −57.68
Std Dev 0
pull1D
Entries 43
Mean 0.112
Std Dev 1.133

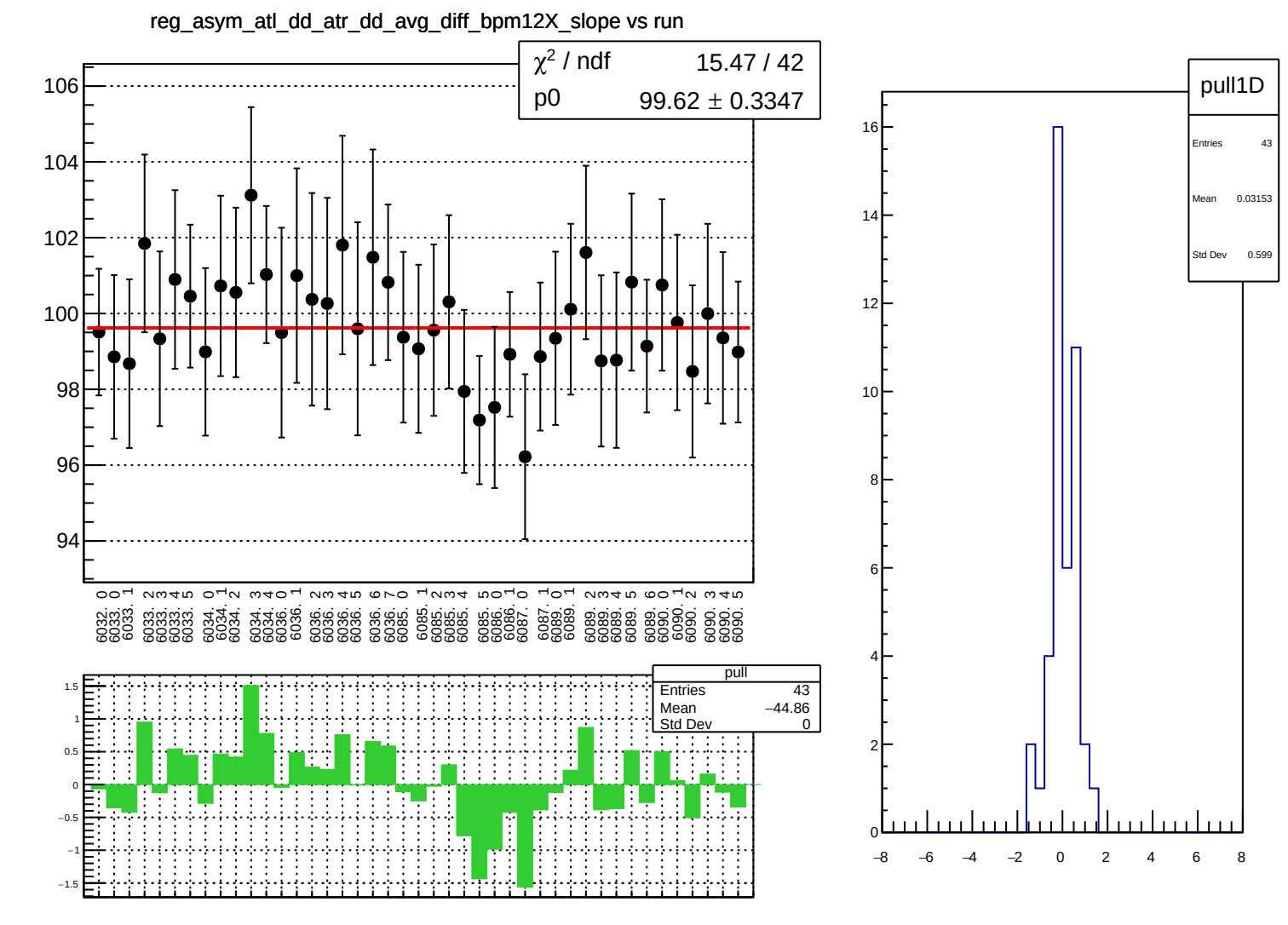

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.657 / 42
p0 22.79 ± 3.728
80
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.417e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −7.817e−05
Std Dev 0.4739
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

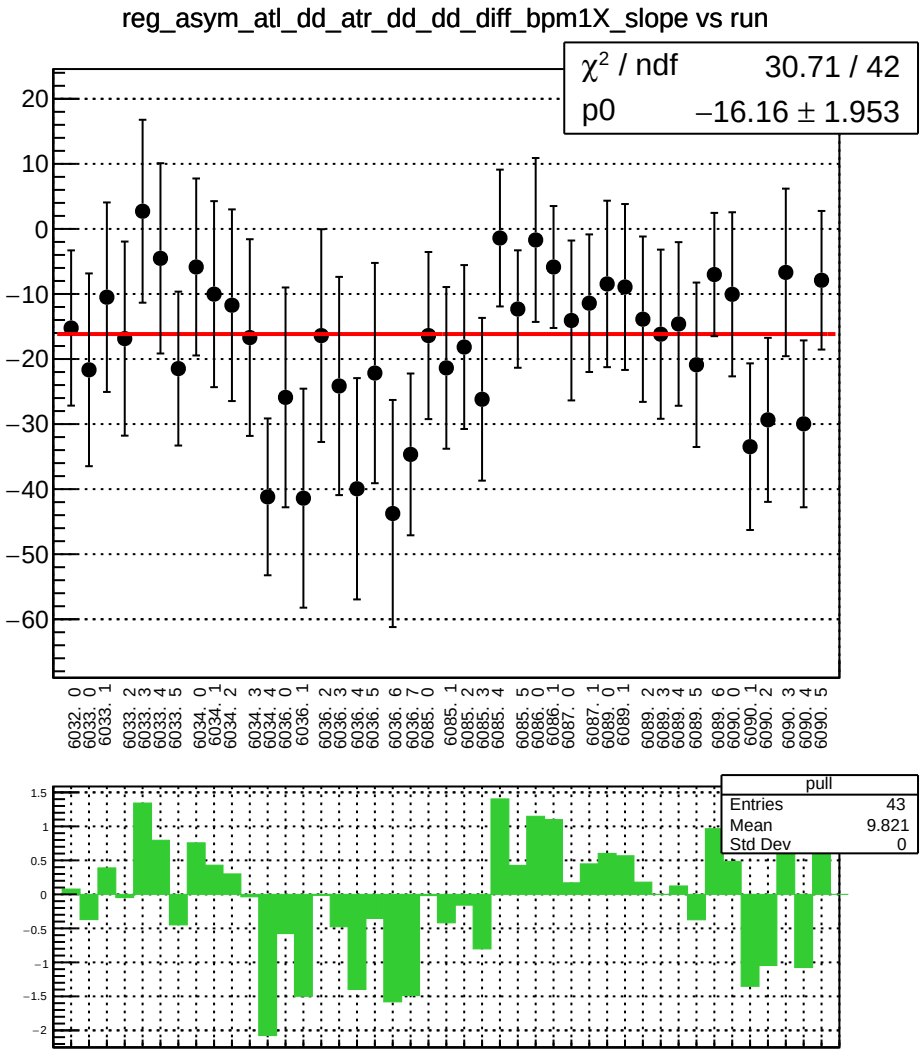

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.47 / 42
p0 −230.6 ± 4.075
pull
Entries 43
Mean 53.93
Std Dev 0

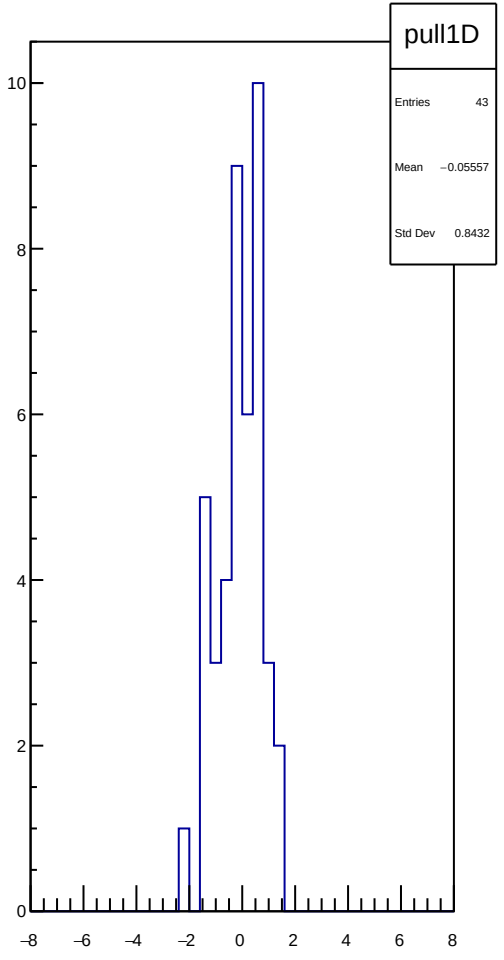

pull1D
Entries 43
Mean −0.02504
Std Dev 0.5993

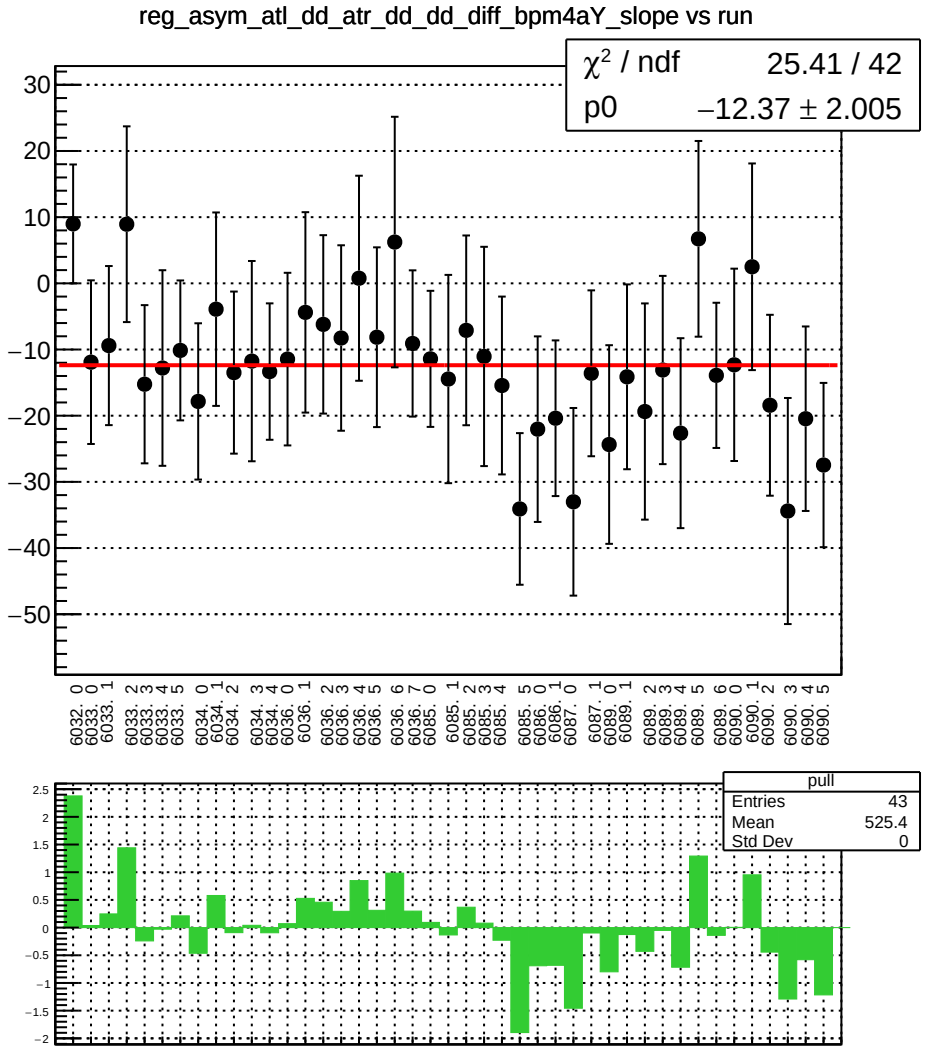

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.12 / 42
p0 −96.85 ± 4.028
−40
−60
−80
−100
−120
−140
−160
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −203.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

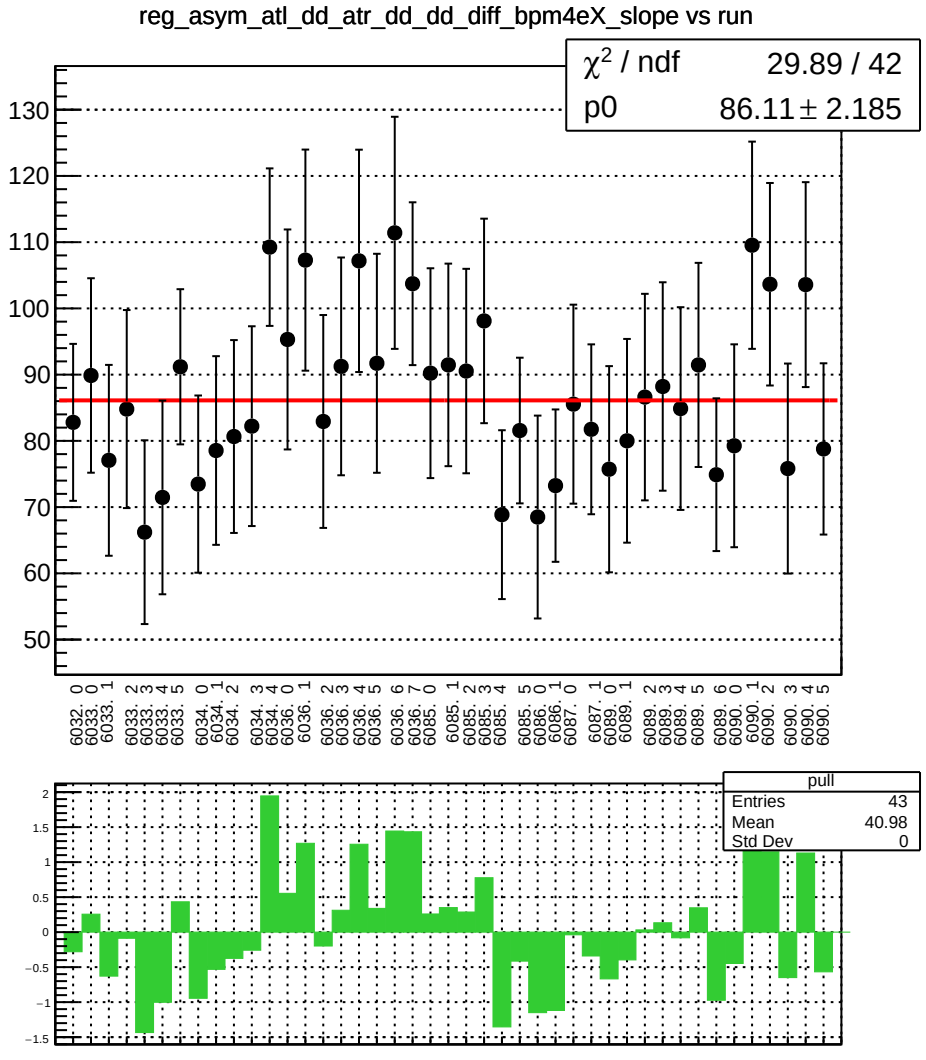

pull1D
Entries 43
Mean 0.01124
Std Dev 0.5729
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

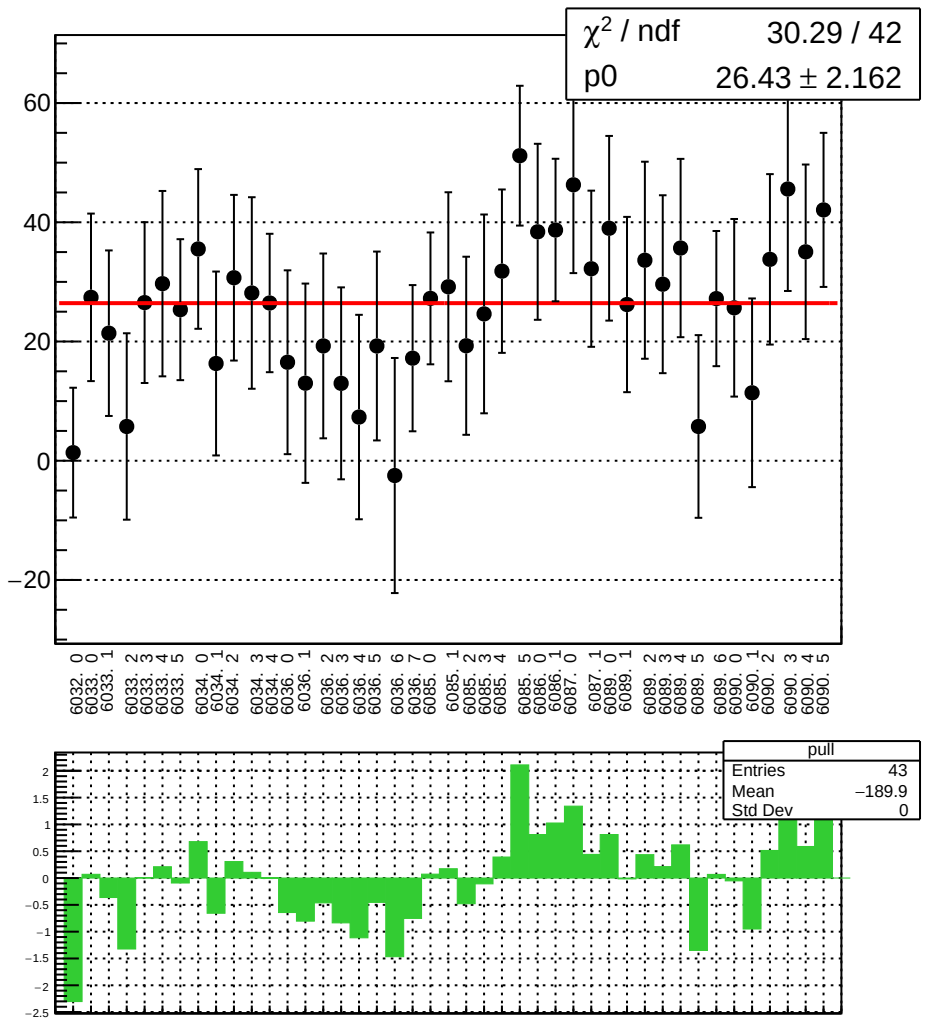

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 15.47 / 42
p0 99.62 ± 0.3347
106
104
102
100
98
96
94
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −44.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03153
Std Dev 0.599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

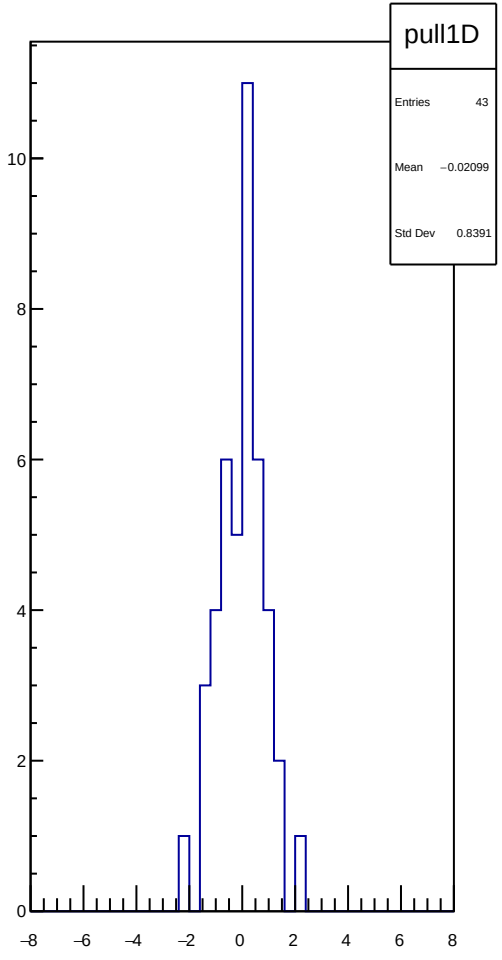

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 30.71 / 42
p0 −16.16 ± 1.953
pull
Entries 43
Mean 9.821
Std Dev 0

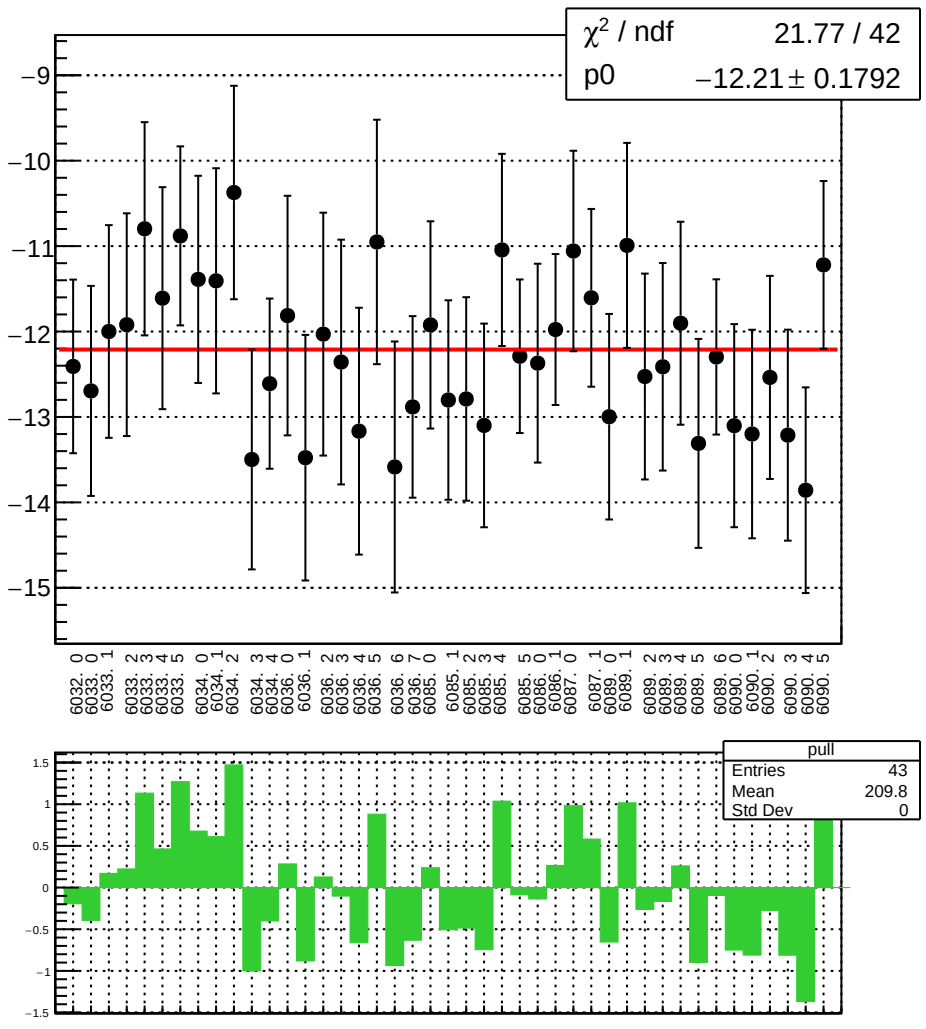

pull1D
Entries 43
Mean −0.05557
Std Dev 0.8432

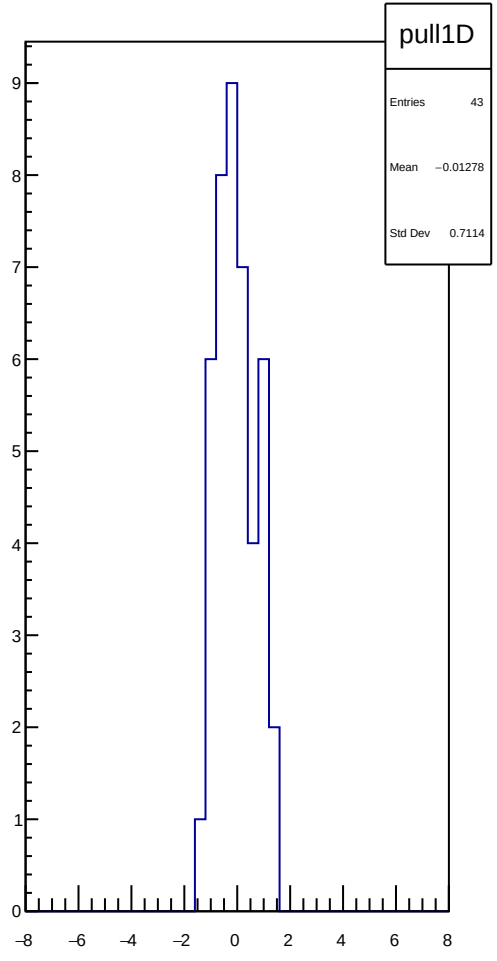

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.41 / 42
p0 −12.37 ± 2.005
pull
Entries 43
Mean 525.4
Std Dev 0
pull1D
Entries 43
Mean −0.008538
Std Dev 0.7687

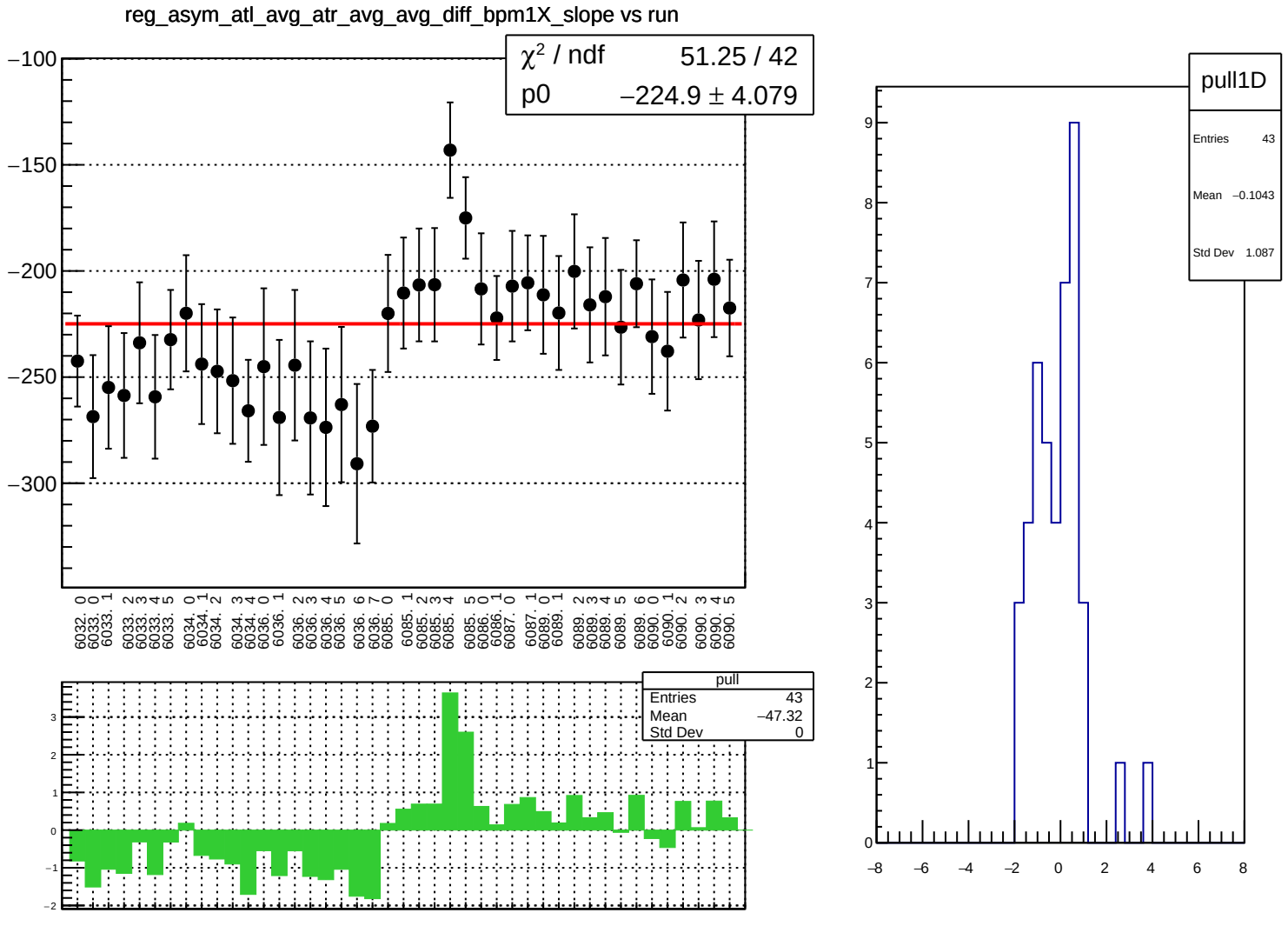

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.89 / 42
p0 86.11 ± 2.185
pull
Entries 43
Mean 40.98
Std Dev 0
pull1D
Entries 43
Mean 0.02943
Std Dev 0.8332

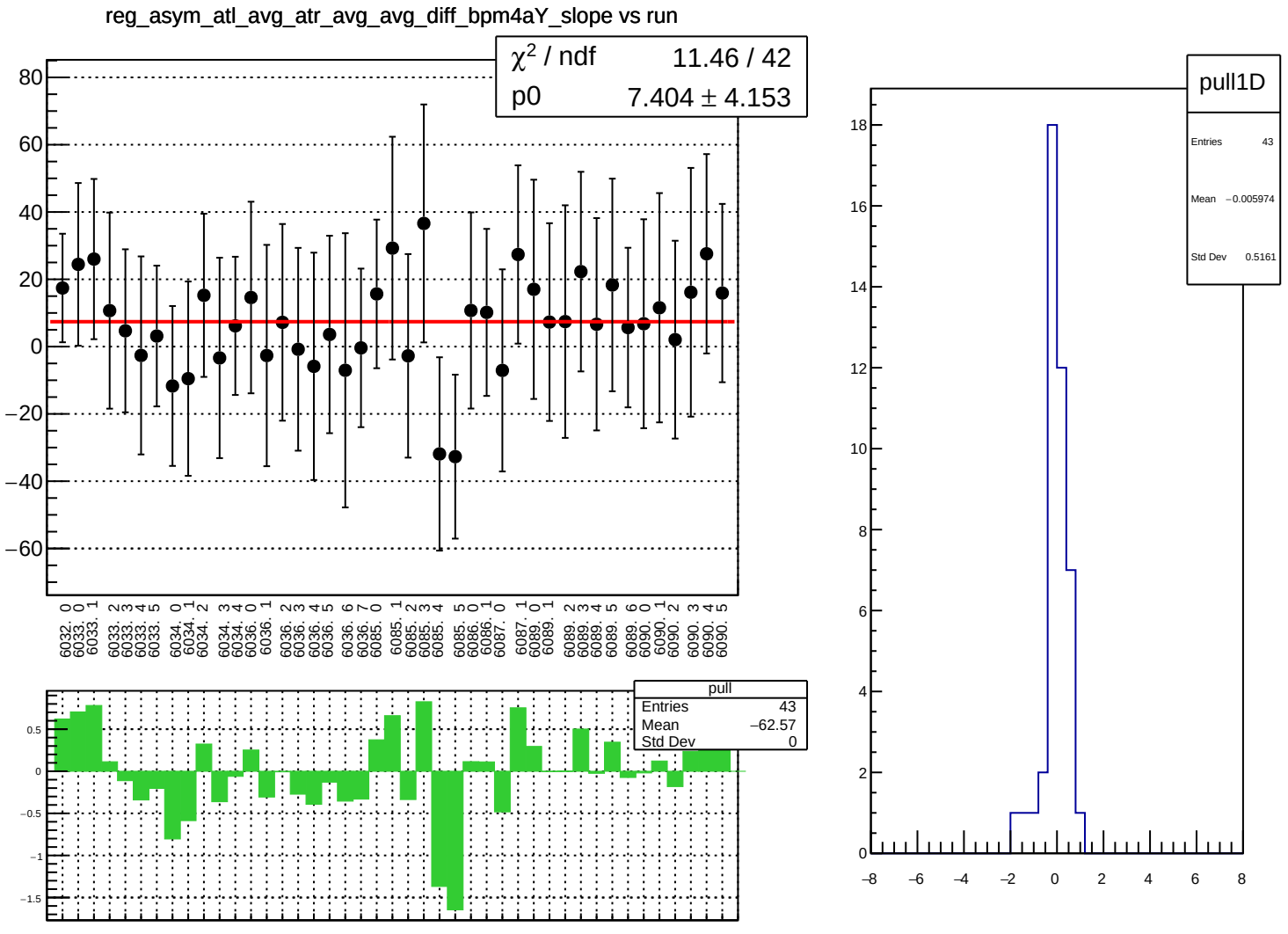

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.29 / 42
p0 26.43 ± 2.162
pull
Entries 43
Mean −189.9
Std Dev 0

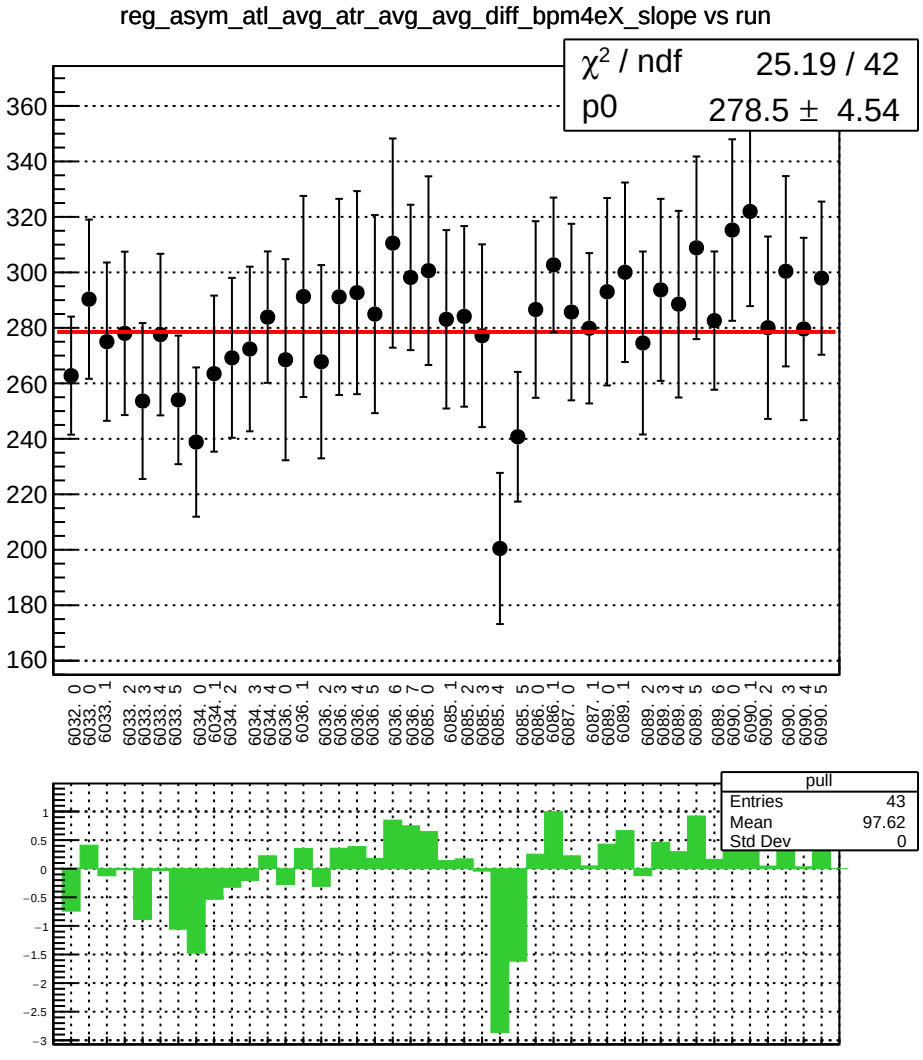

pull1D
Entries 43
Mean −0.02099
Std Dev 0.8391

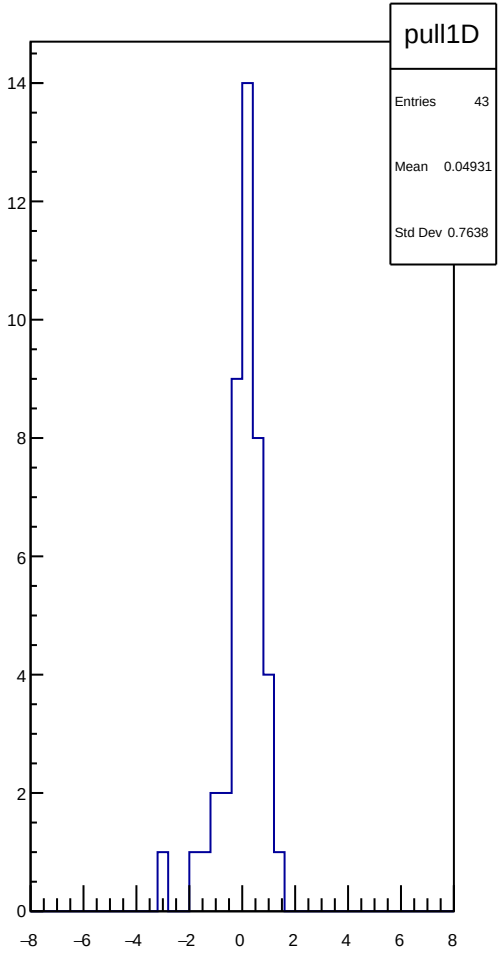

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 21.77 / 42
p0 −12.21 ± 0.1792
pull
Entries 43
Mean 209.8
Std Dev 0

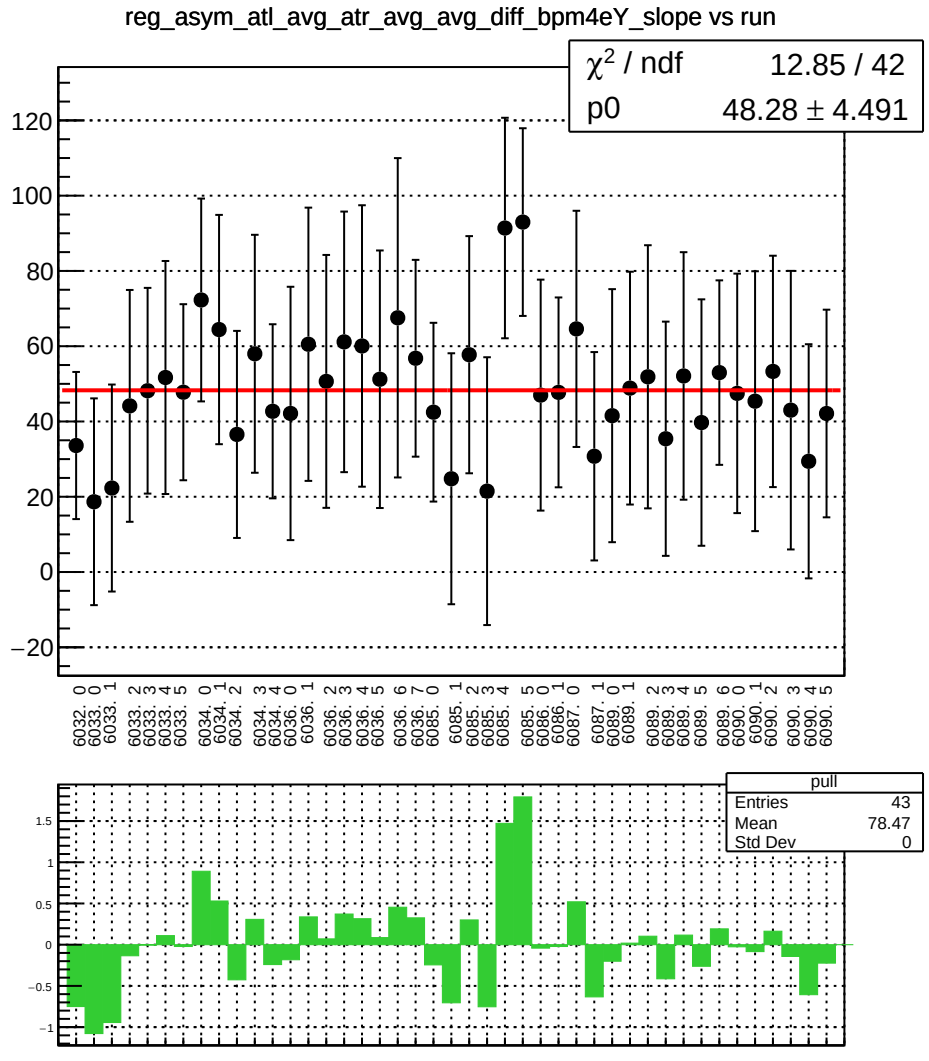

pull1D
Entries 43
Mean −0.01278
Std Dev 0.7114

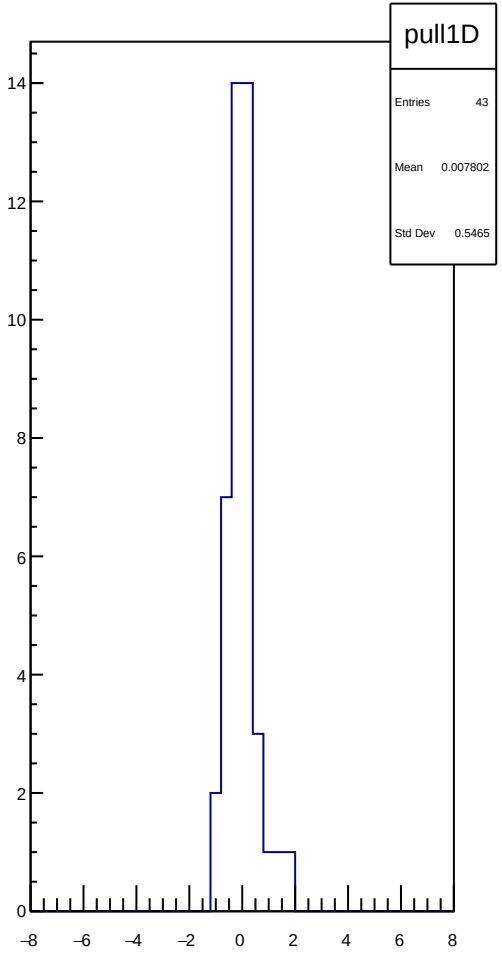

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 51.25 / 42
p0 −224.9 ± 4.079
−100
−150
−200
−250
−300
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −47.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1043
Std Dev 1.087
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

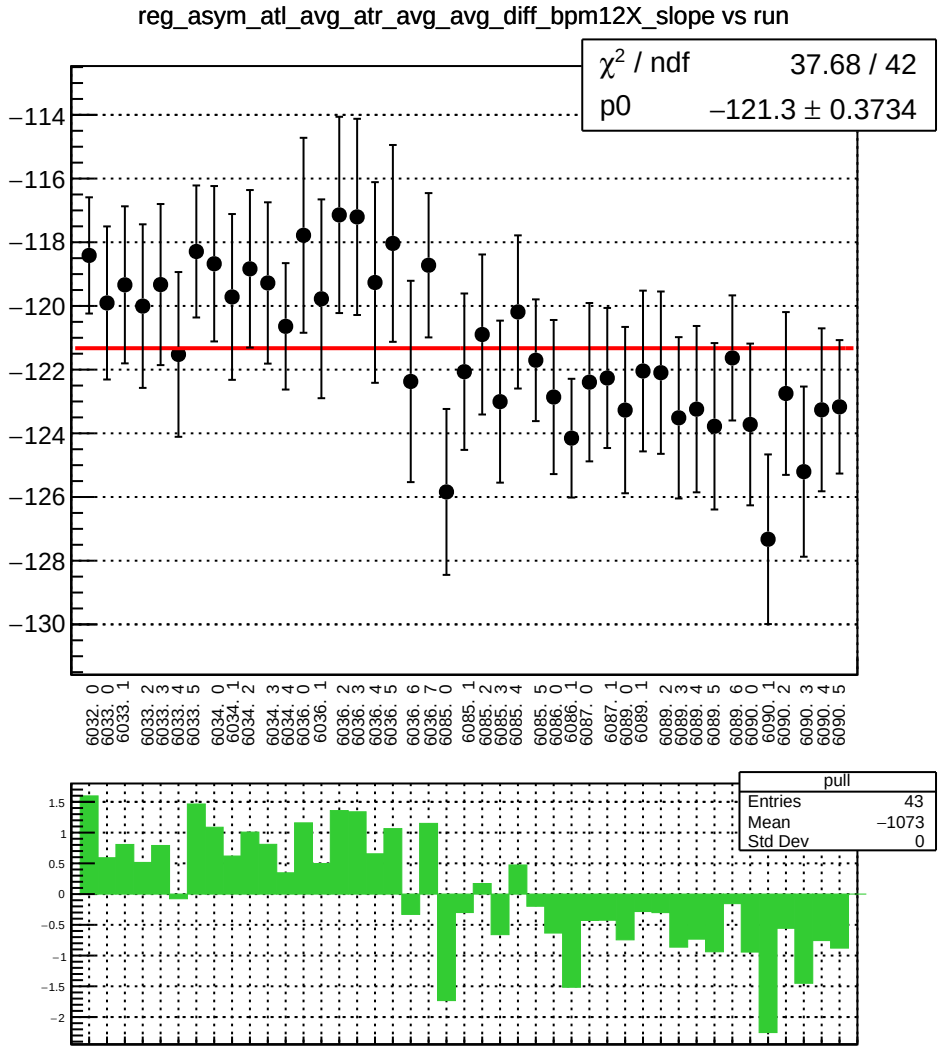

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.46 / 42
p0 7.404 ± 4.153
80
60
40
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −62.57
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.005974
Std Dev 0.5161
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

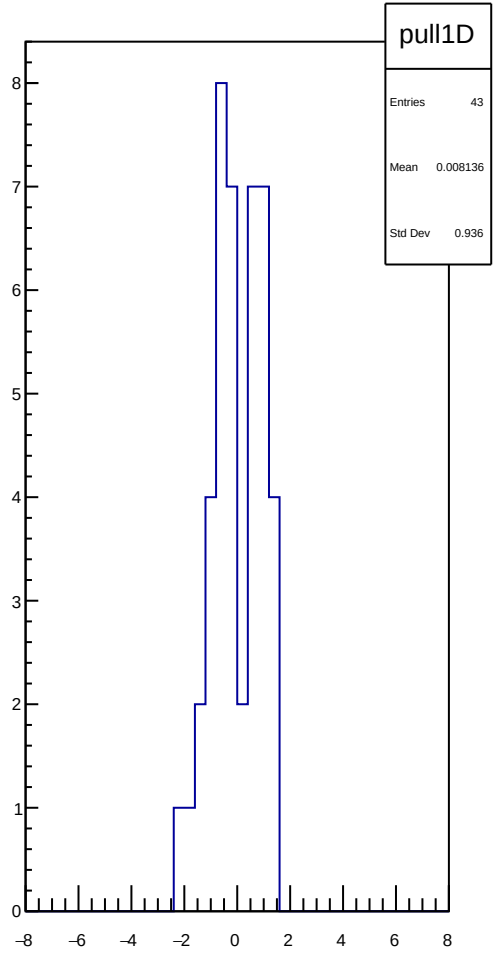

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.19 / 42
p0 278.5 ± 4.54
pull
Entries 43
Mean 97.62
Std Dev 0

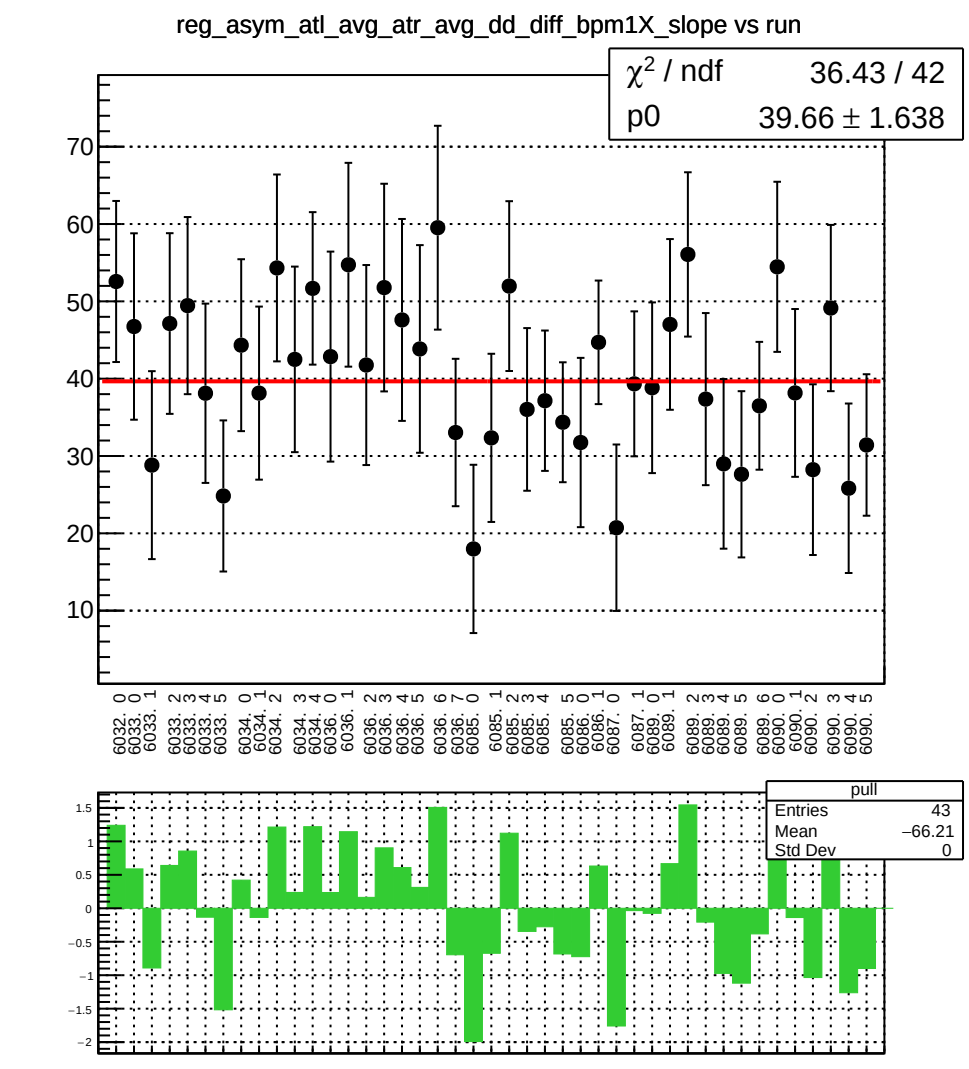

pull1D
Entries 43
Mean 0.04931
Std Dev 0.7638

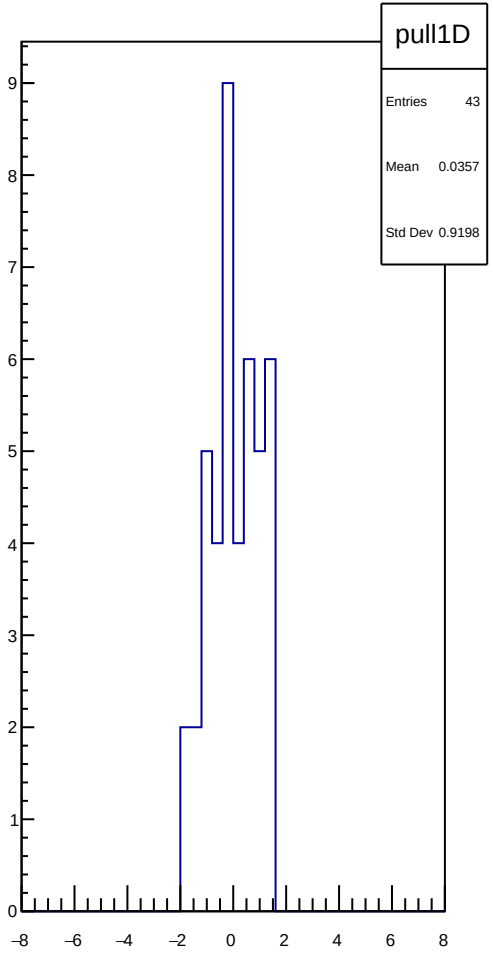

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.85 / 42
p0 48.28 ± 4.491
pull
Entries 43
Mean 78.47
Std Dev 0

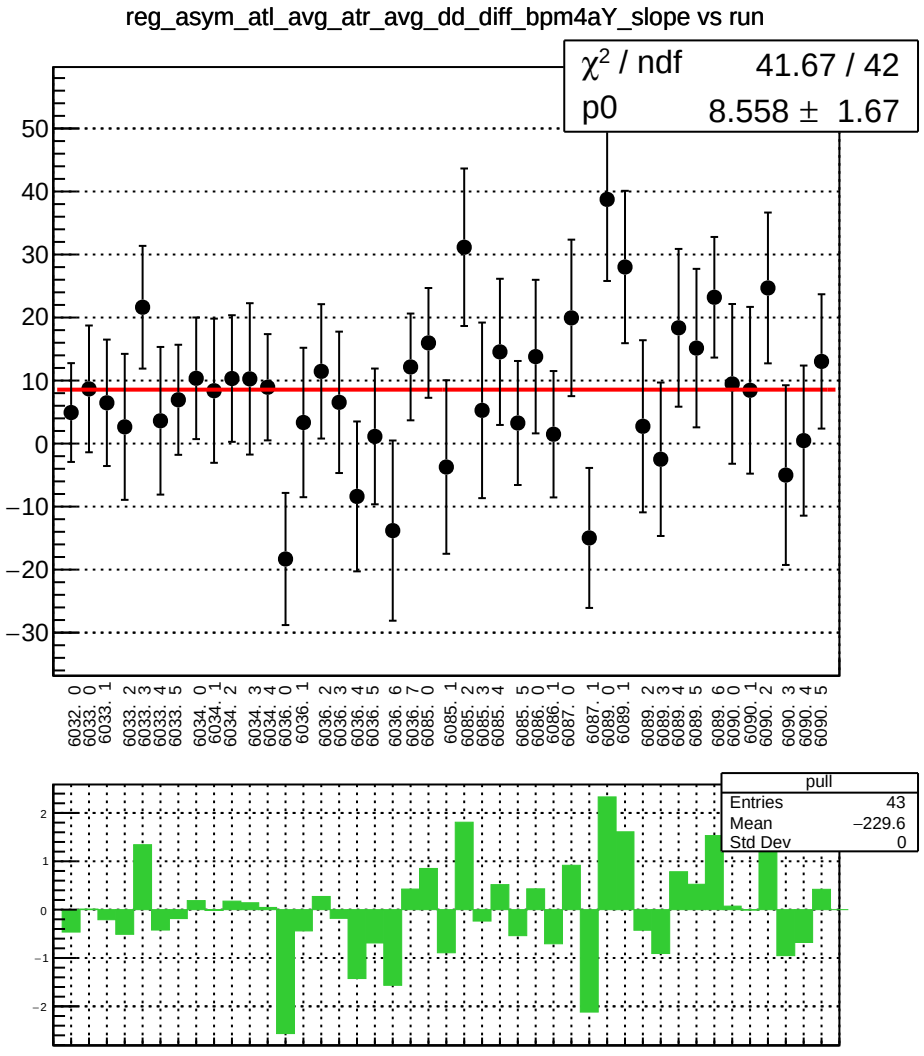

pull1D
Entries 43
Mean 0.007802
Std Dev 0.5465

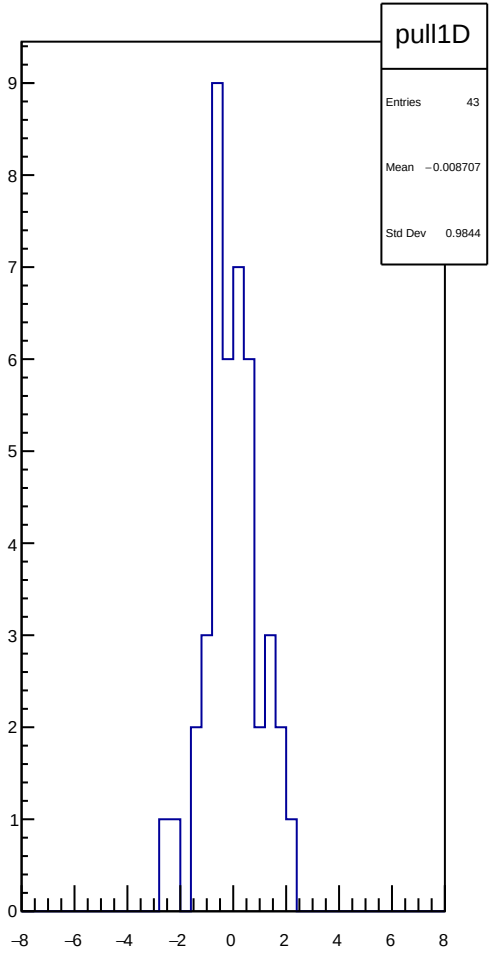

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 37.68 / 42
p0 −121.3 ± 0.3734
pull
Entries 43
Mean −1073
Std Dev 0

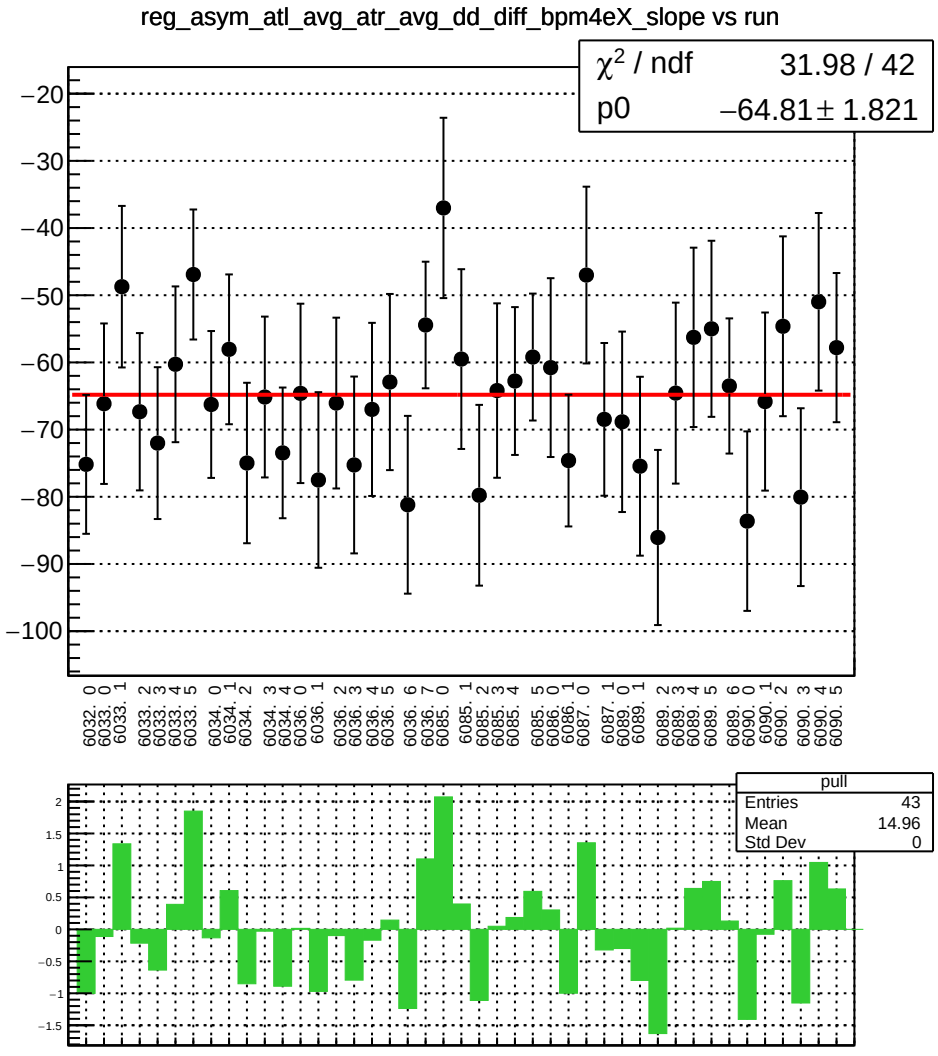

pull1D
Entries 43
Mean 0.008136
Std Dev 0.936

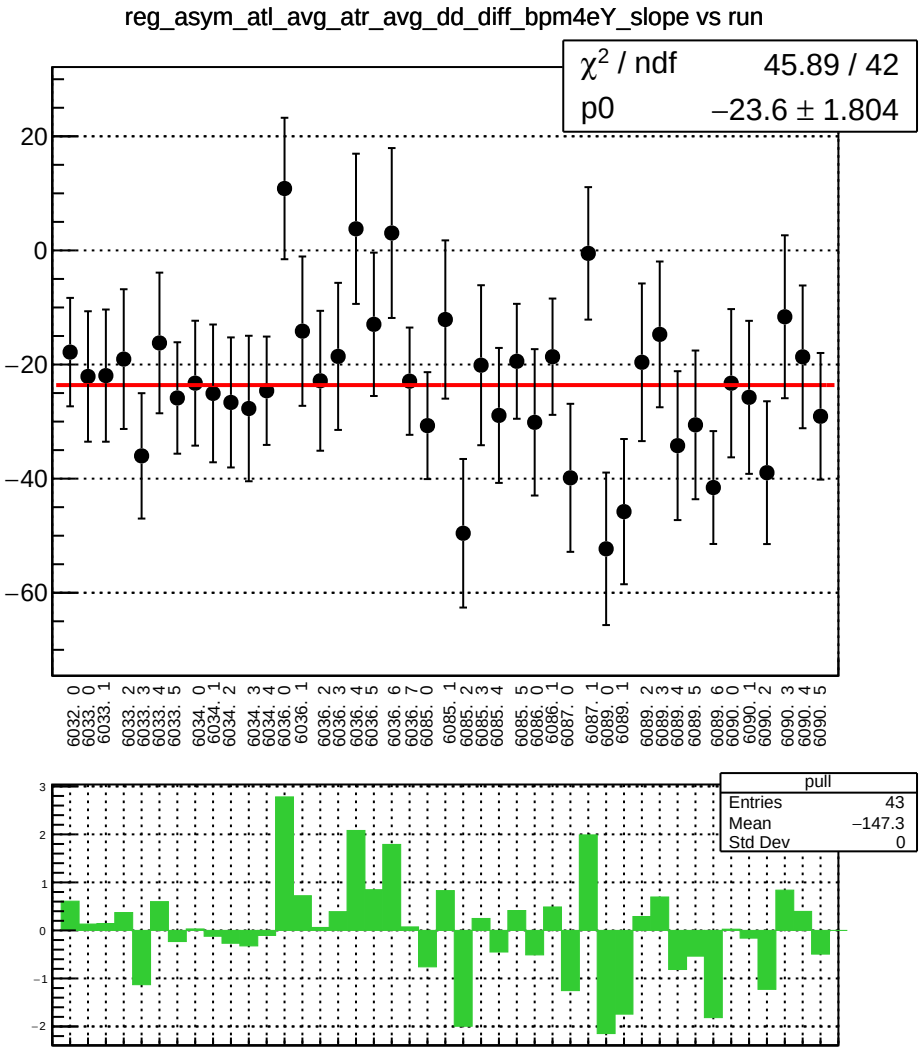

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 36.43 / 42
p0 39.66 ± 1.638
pull
Entries 43
Mean −66.21
Std Dev 0

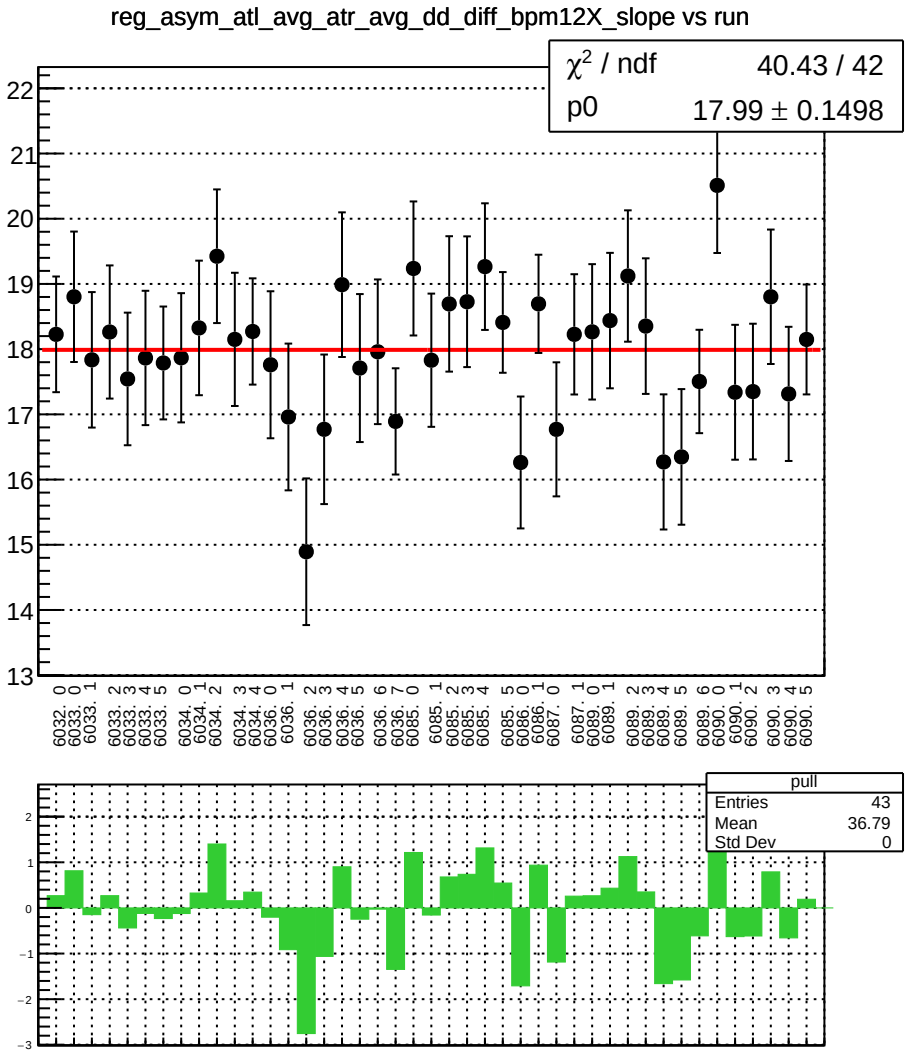

pull1D
Entries 43
Mean 0.0357
Std Dev 0.9198

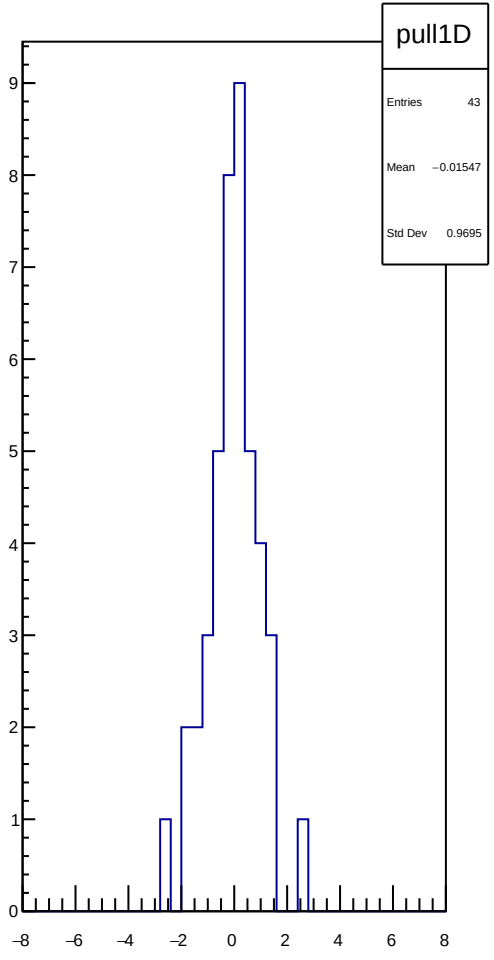

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.67 / 42
p0 8.558 ± 1.67
pull
Entries 43
Mean −229.6
Std Dev 0

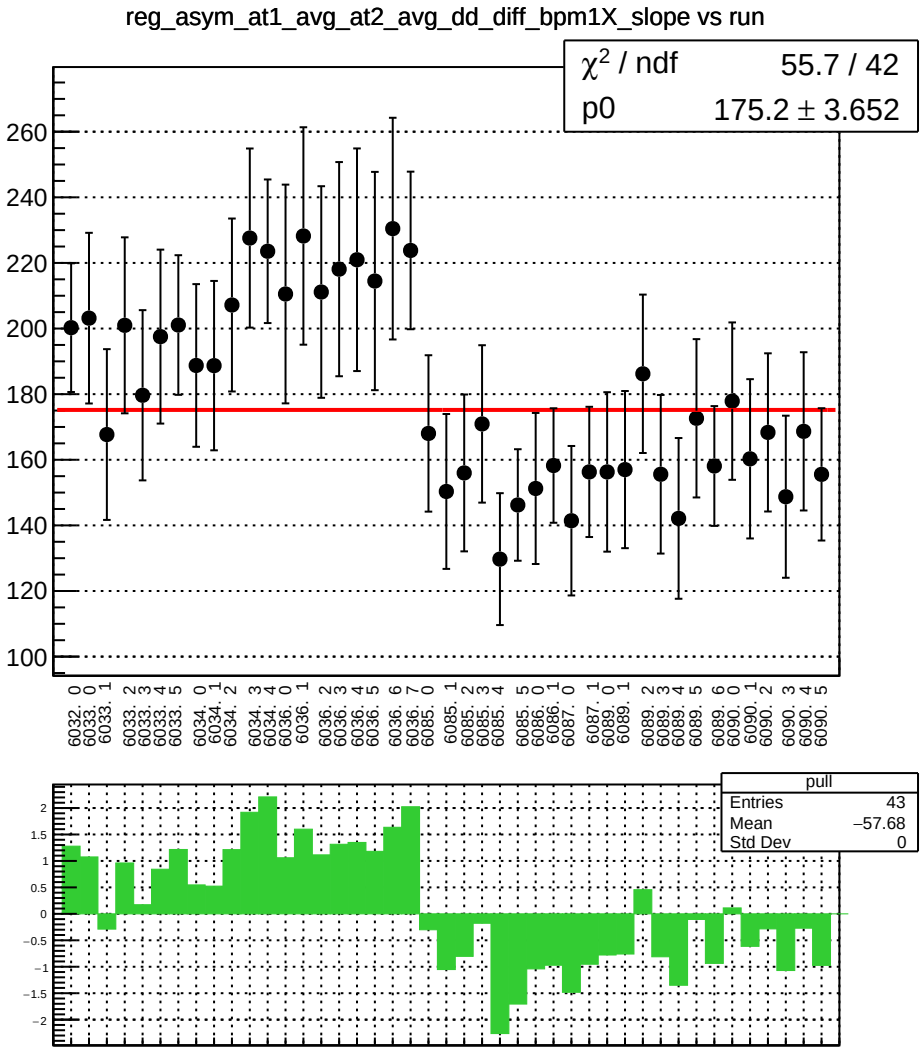

pull1D
Entries 43
Mean −0.008707
Std Dev 0.9844

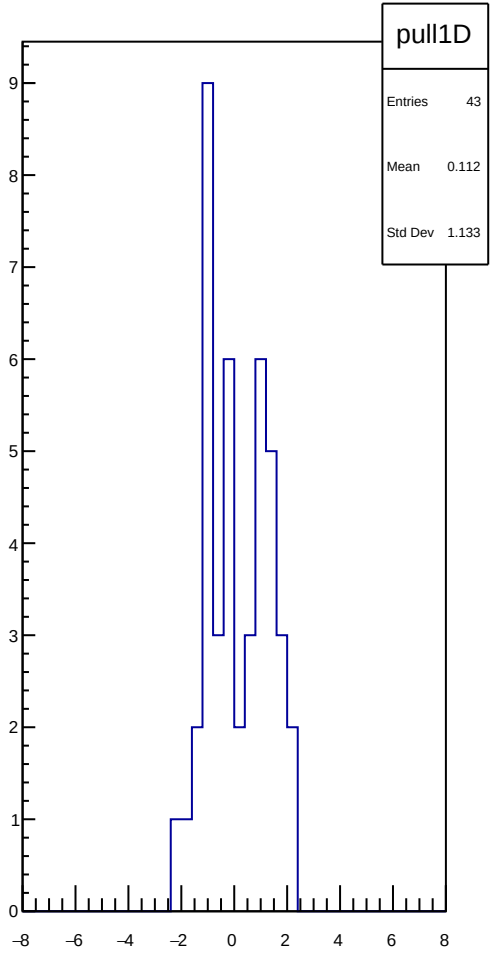

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.98 / 42
p0 −64.81 ± 1.821
pull
Entries 43
Mean 14.96
Std Dev 0
pull1D
Entries 43
Mean −0.01285
Std Dev 0.8623


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.89 / 42
p0 −23.6 ± 1.804
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −147.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01792
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

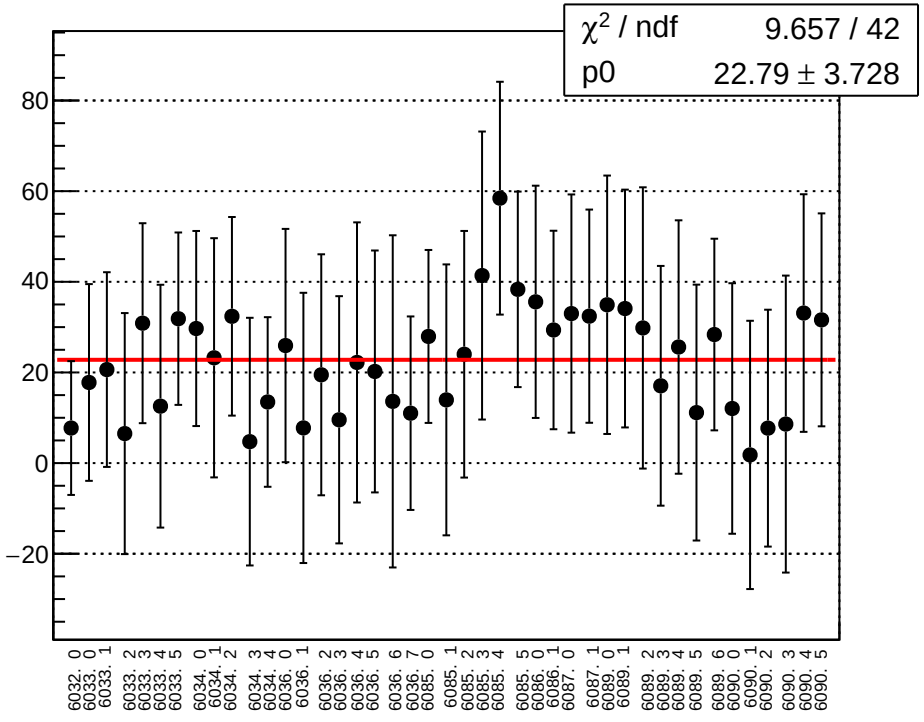

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.43 / 42
p0 17.99 ± 0.1498
pull
Entries 43
Mean 36.79
Std Dev 0

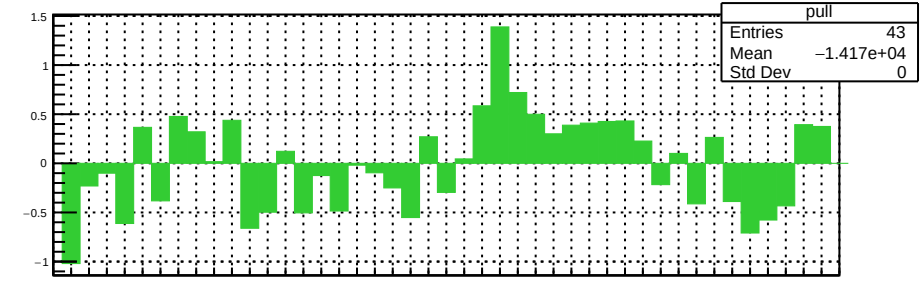

pull1D
Entries 43
Mean −0.01547
Std Dev 0.9695

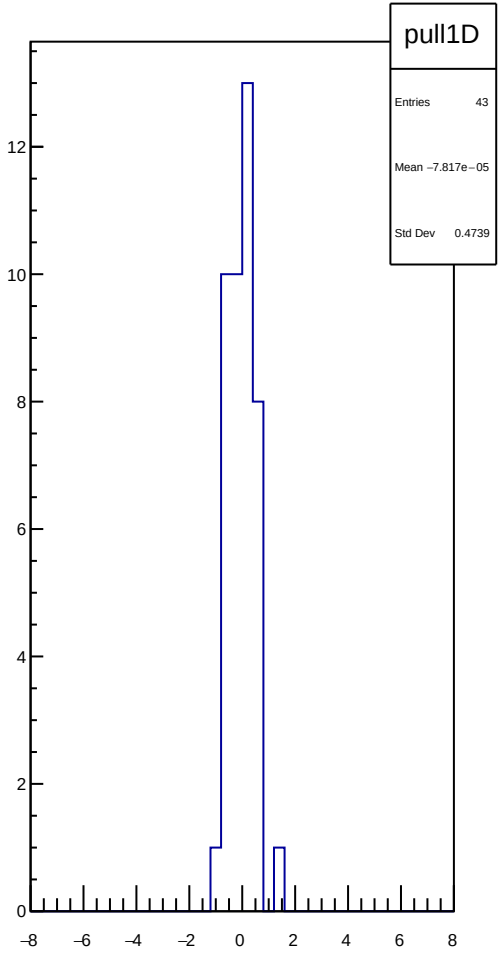

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 55.7 / 42
p0 175.2 ± 3.652
pull
Entries 43
Mean −57.68
Std Dev 0

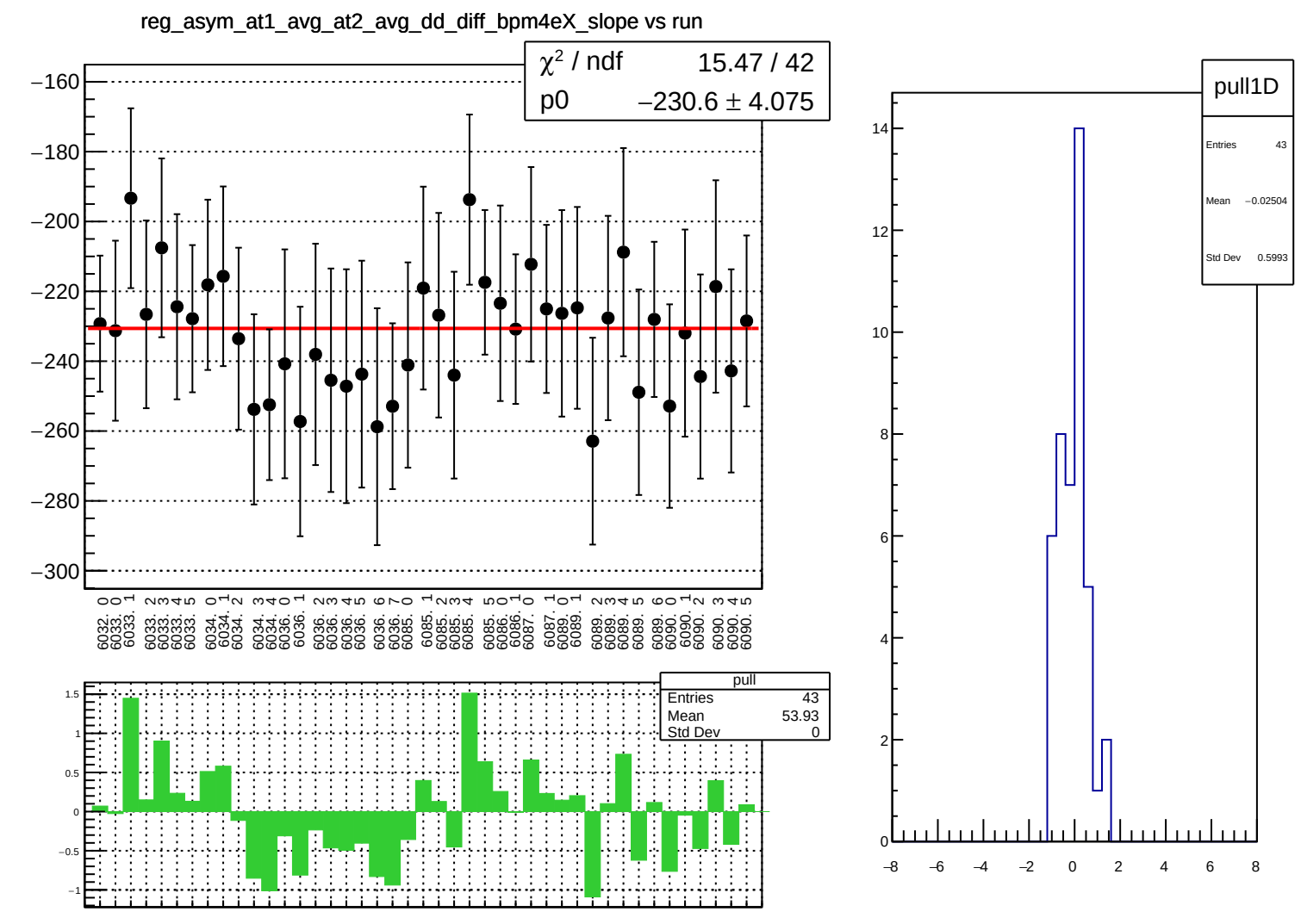

pull1D
Entries 43
Mean 0.112
Std Dev 1.133

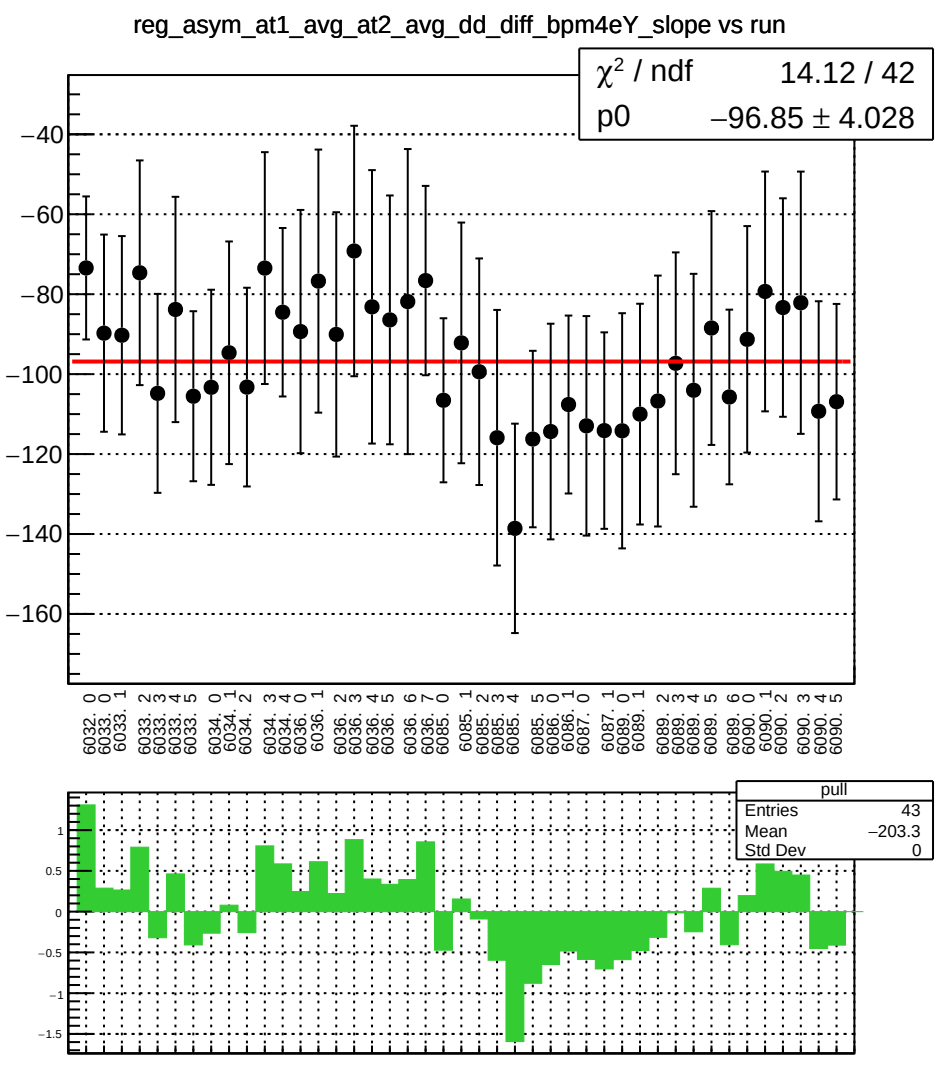
reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run

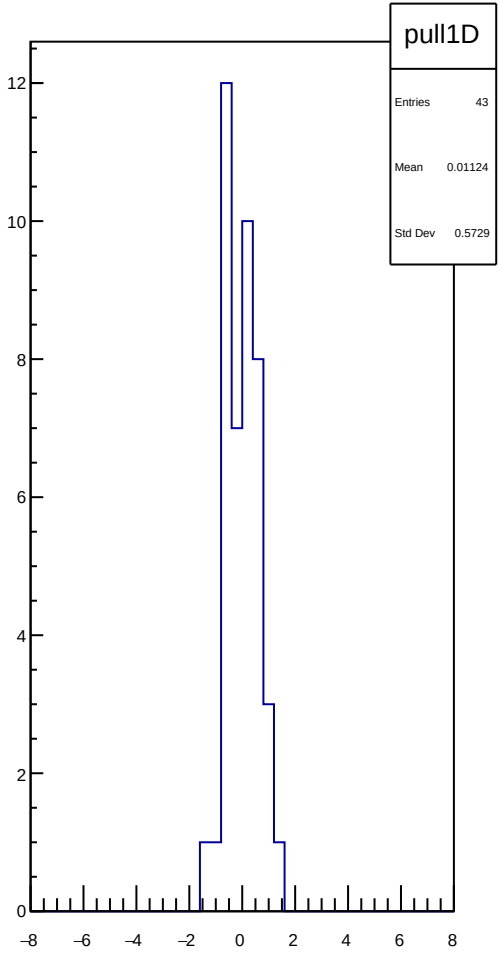


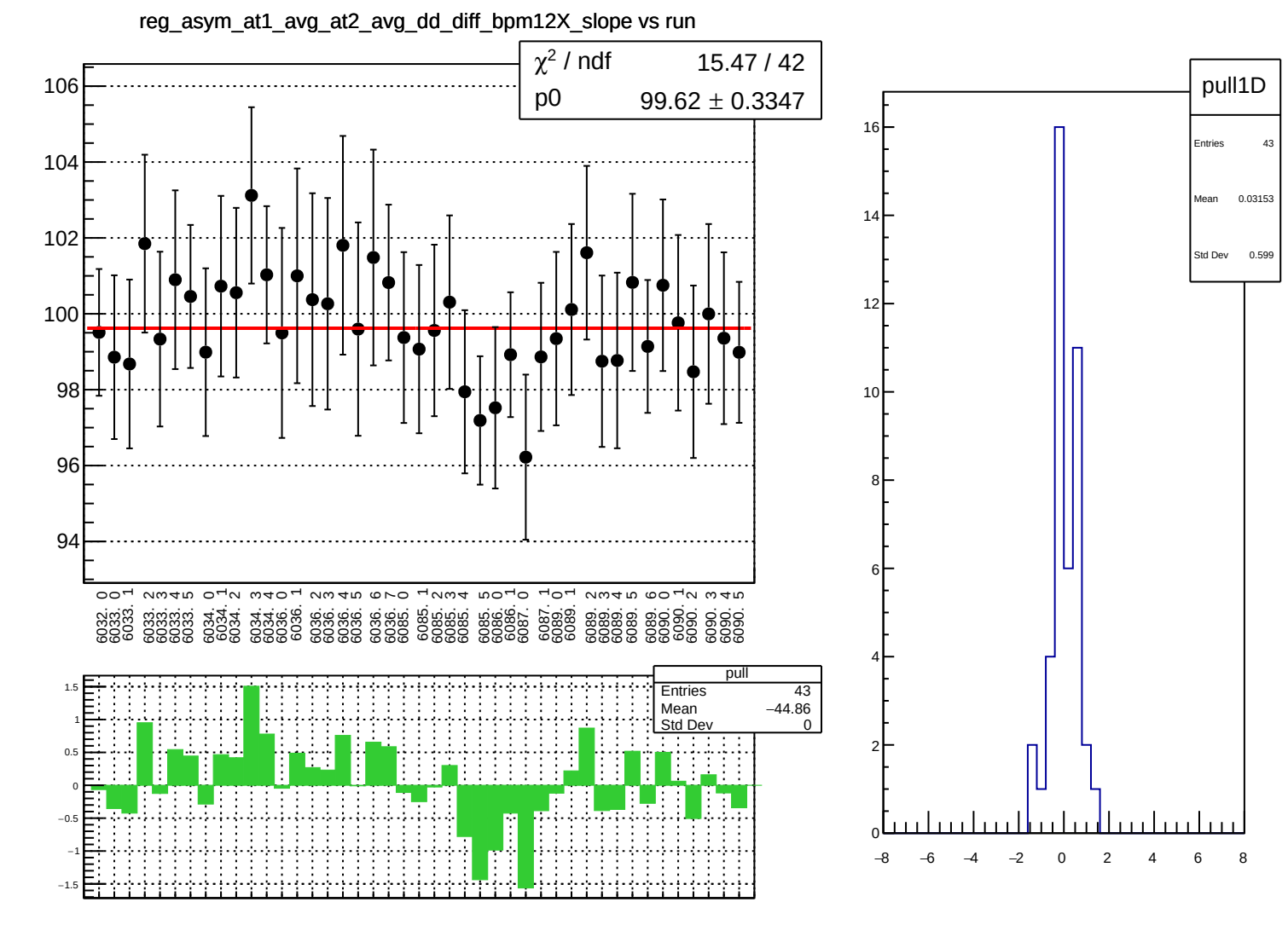


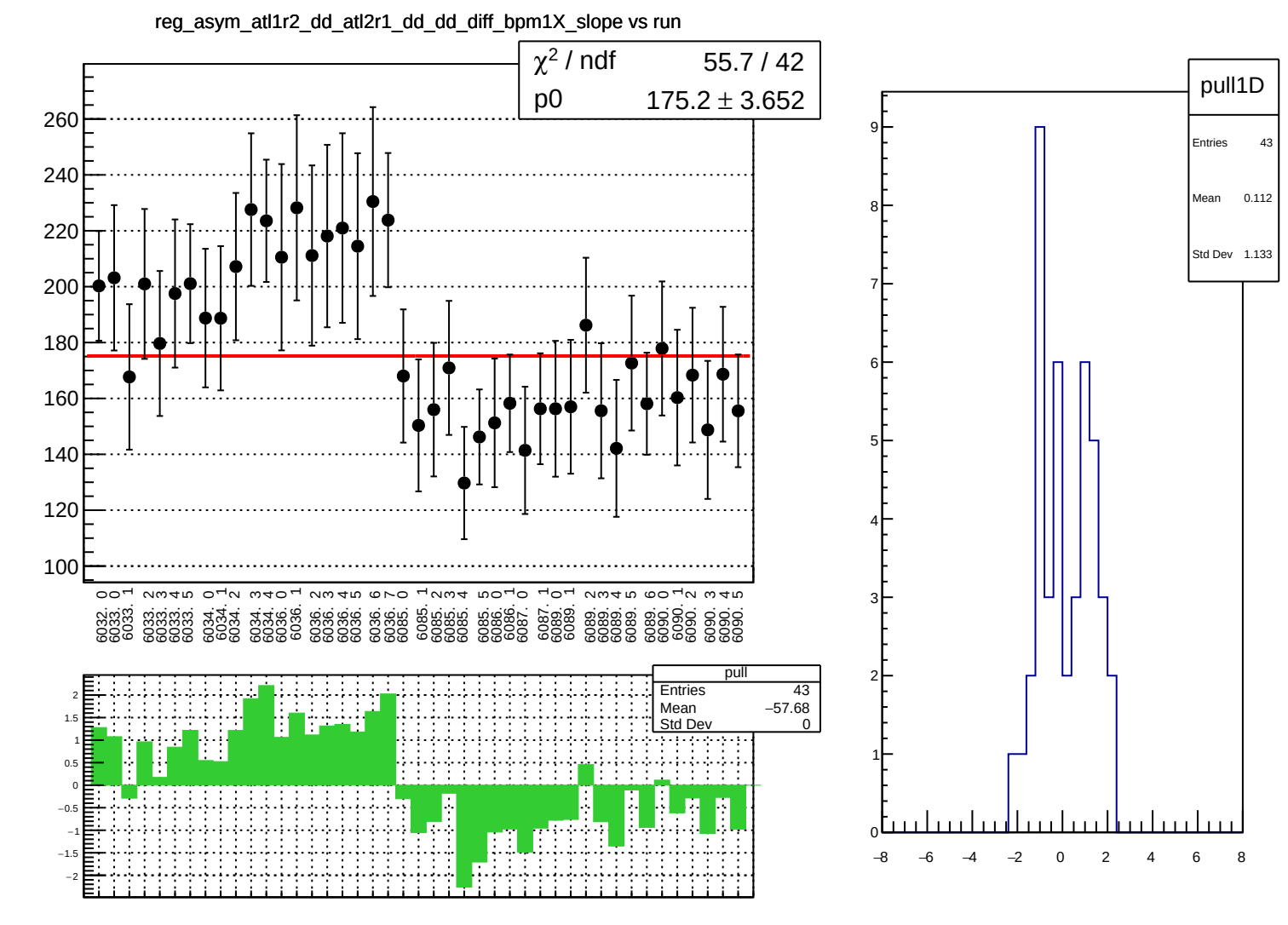


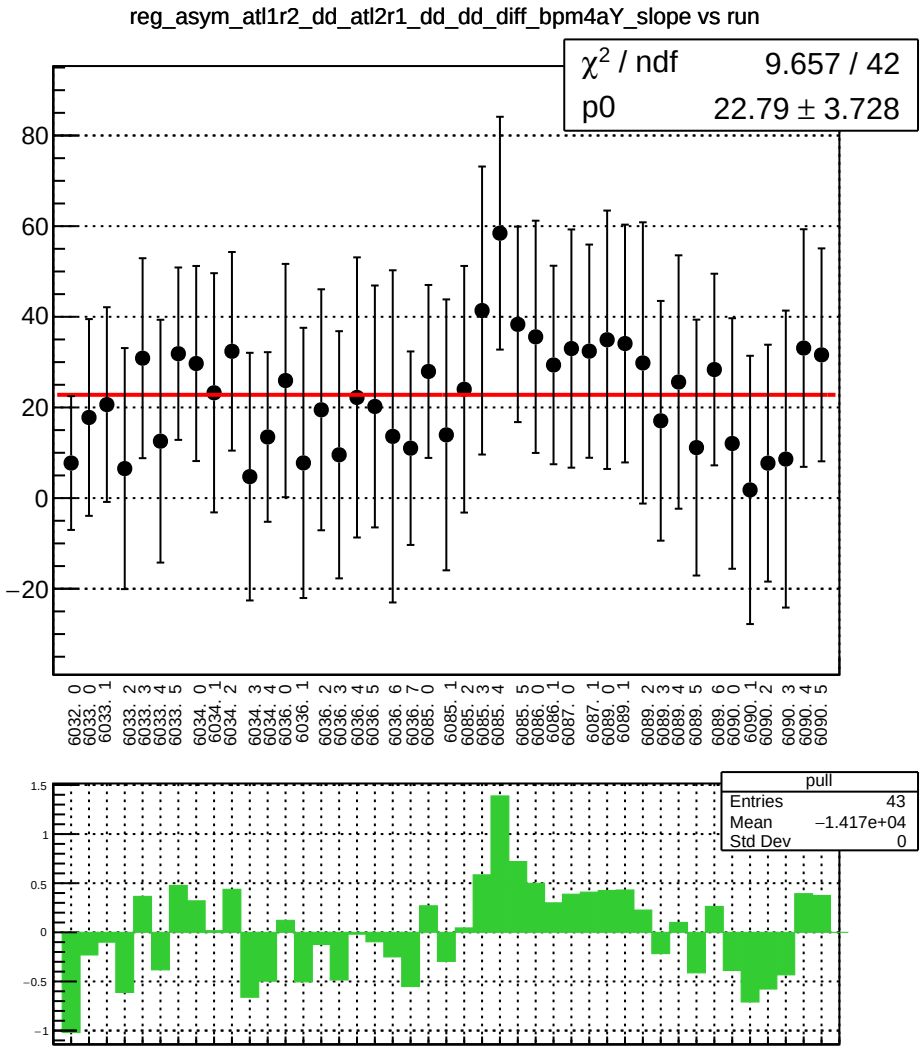

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.47 / 42
p0 −230.6 ± 4.075
pull
Entries 43
Mean 53.93
Std Dev 0
pull1D
Entries 43
Mean −0.02504
Std Dev 0.5993

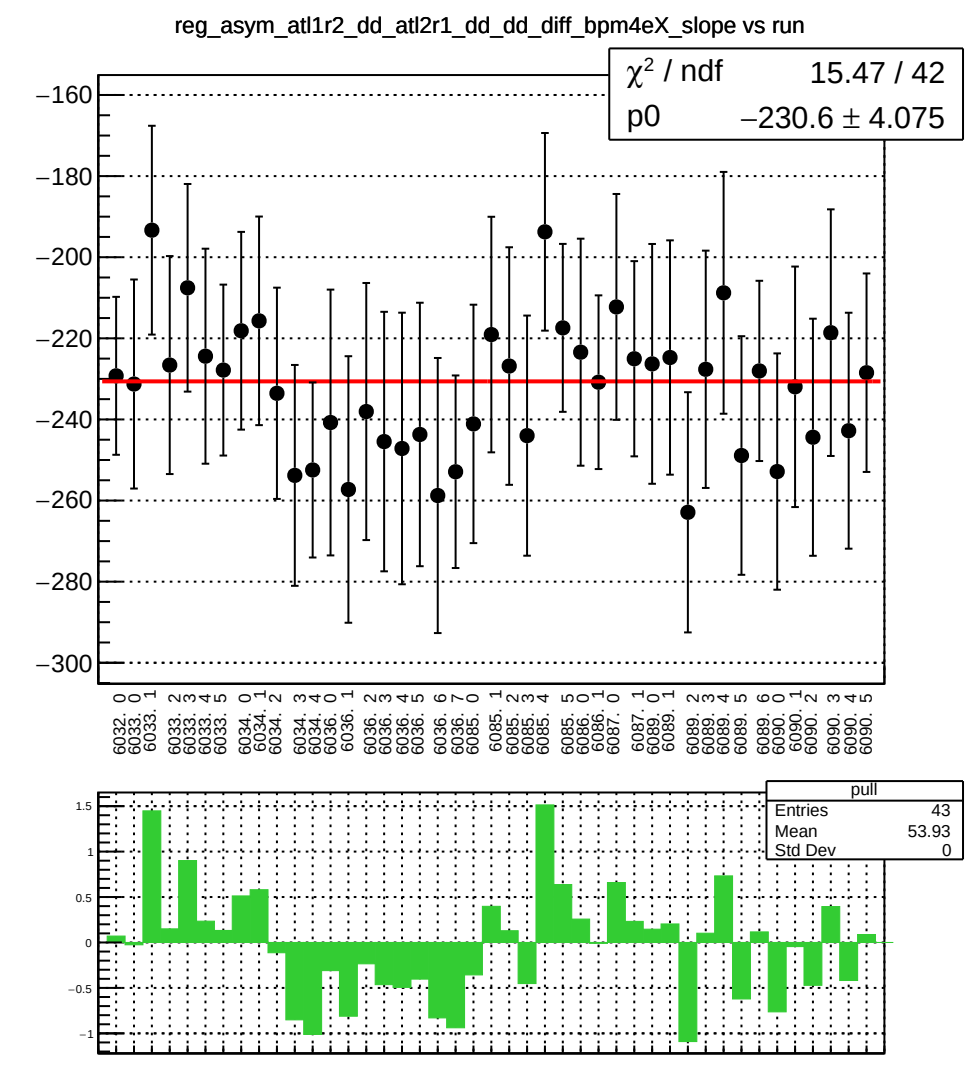

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.12 / 42
p0 −96.85 ± 4.028
−40
−60
−80
−100
−120
−140
−160
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −203.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

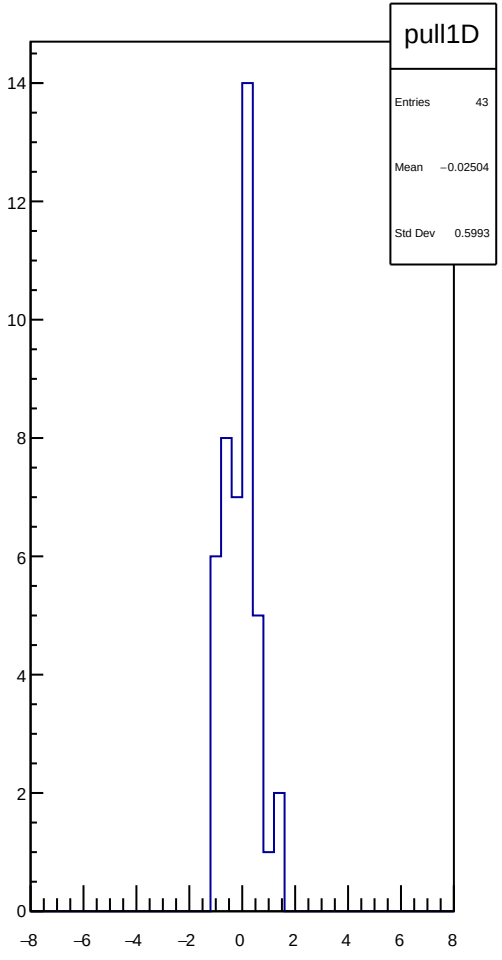

pull1D
Entries 43
Mean 0.01124
Std Dev 0.5729
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

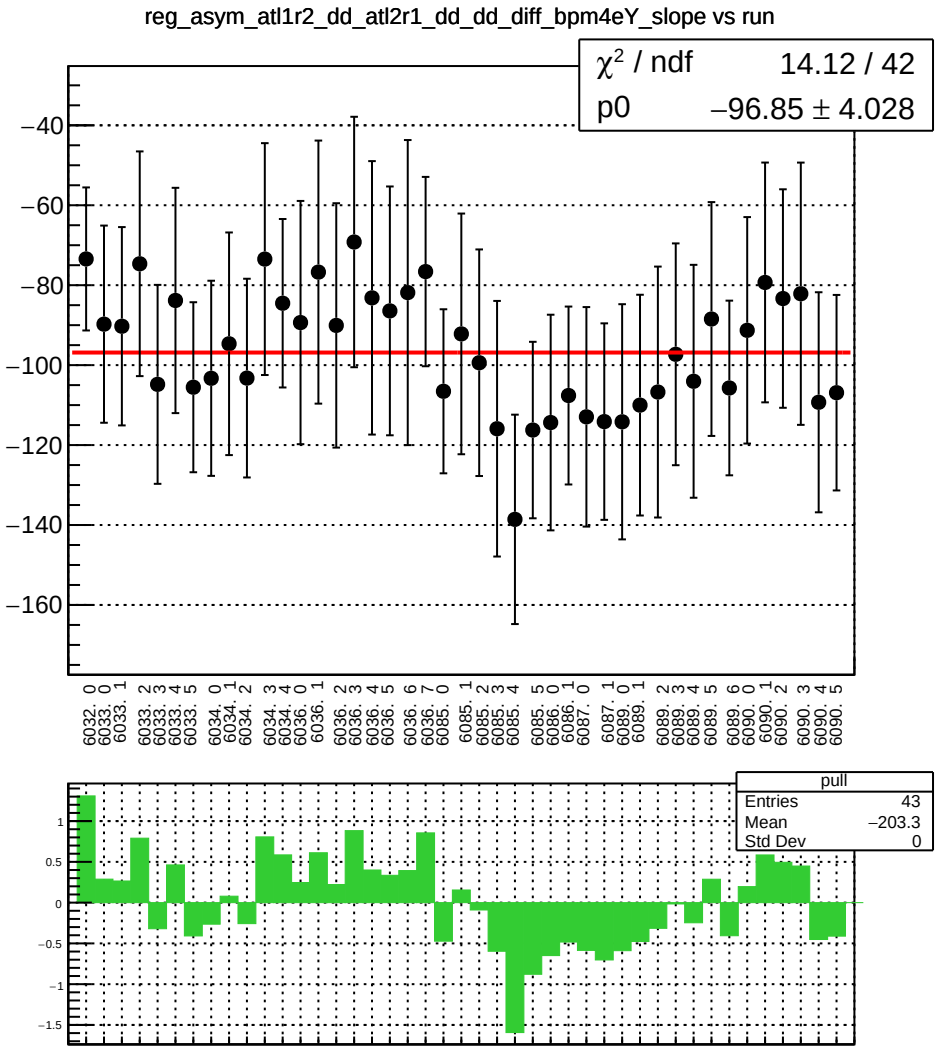

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 15.47 / 42
p0 99.62 ± 0.3347
106
104
102
100
98
96
94
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −44.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03153
Std Dev 0.599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

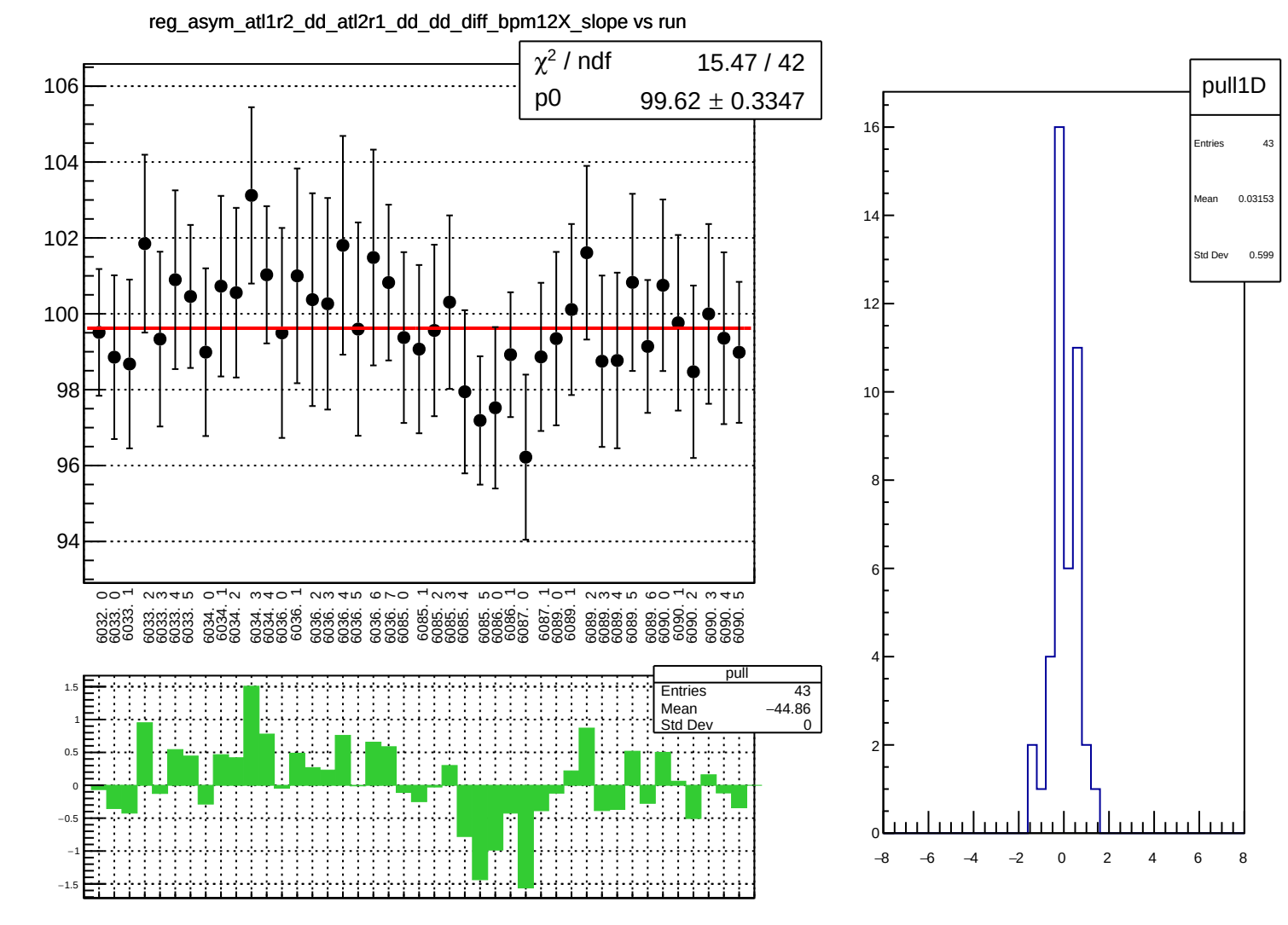

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.7 / 42
p0 175.2 ± 3.652
pull
Entries 43
Mean −57.68
Std Dev 0
pull1D
Entries 43
Mean 0.112
Std Dev 1.133

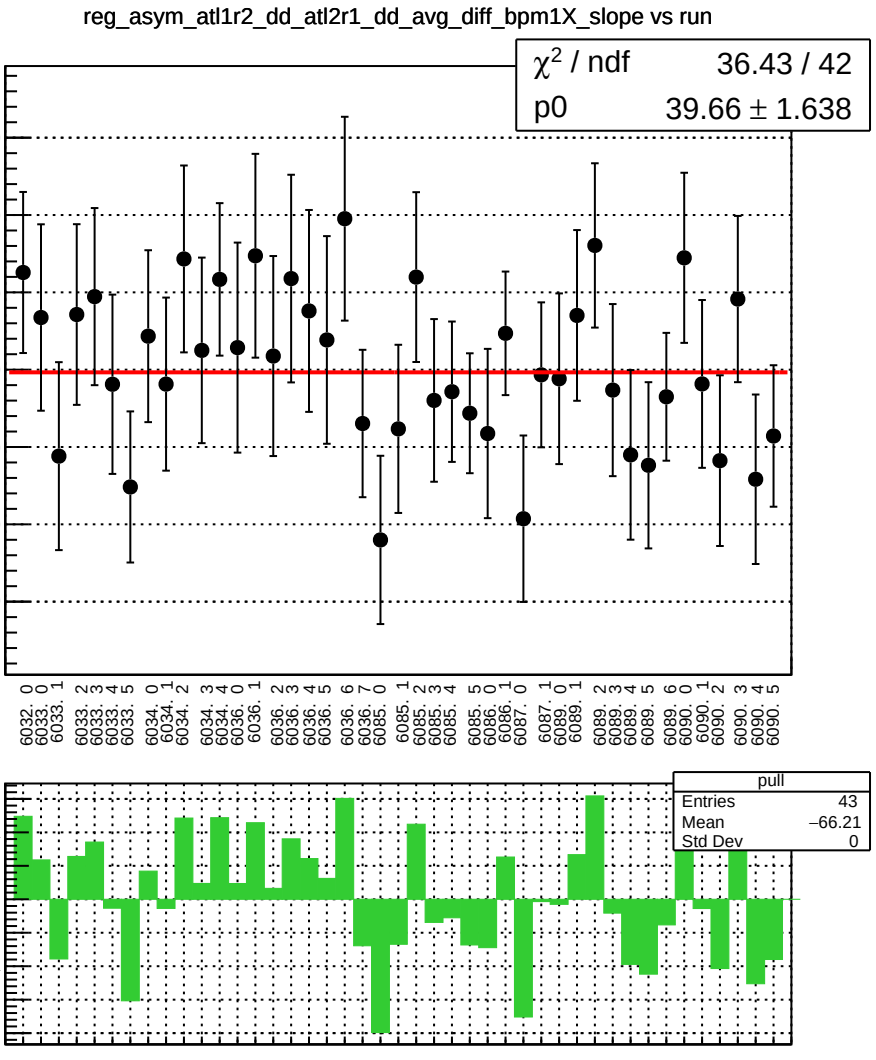

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.657 / 42
p0 22.79 ± 3.728
80
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.417e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −7.817e−05
Std Dev 0.4739
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

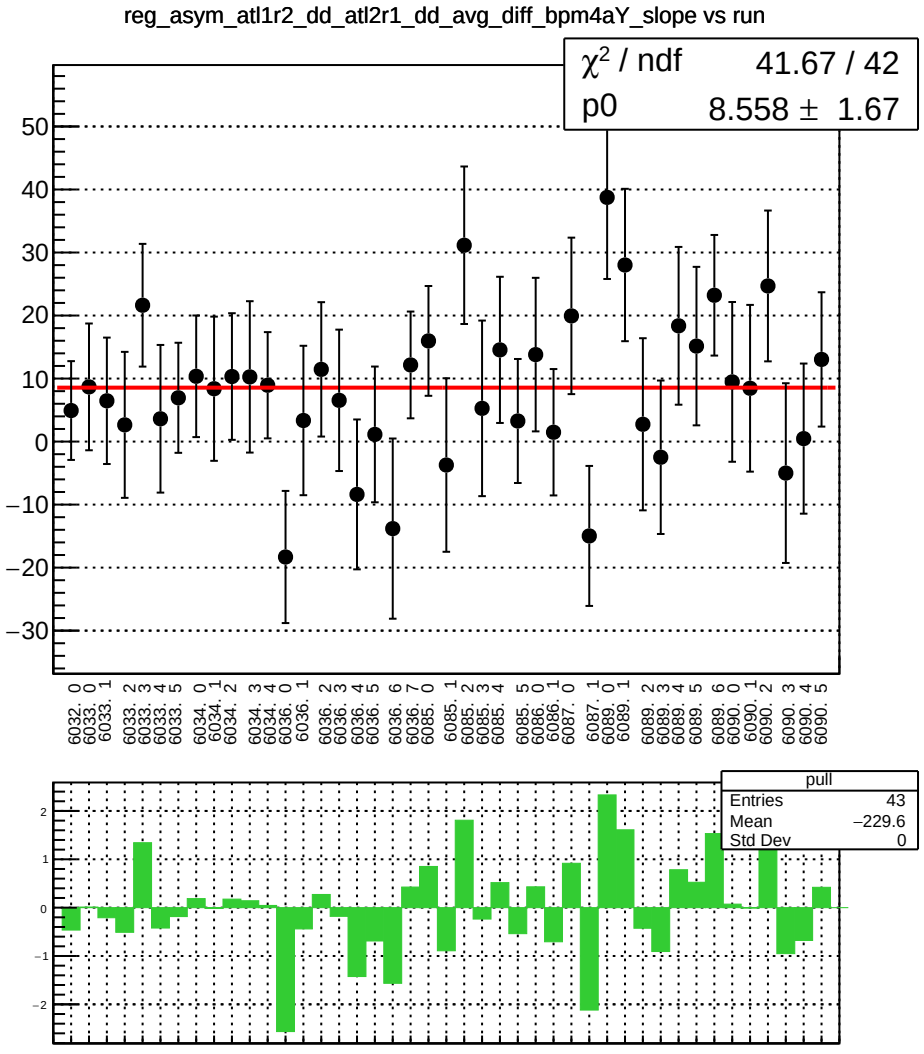

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.47 / 42
p0 −230.6 ± 4.075
pull
Entries 43
Mean 53.93
Std Dev 0

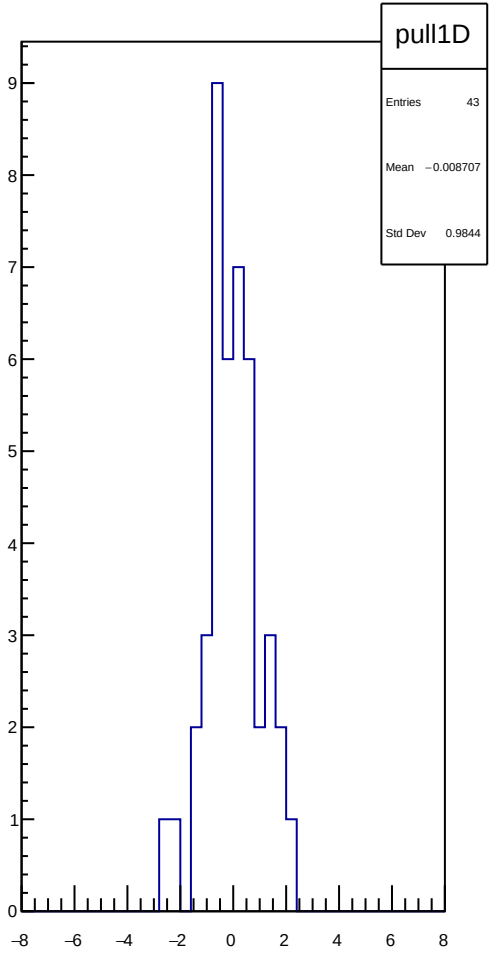

pull1D
Entries 43
Mean −0.02504
Std Dev 0.5993

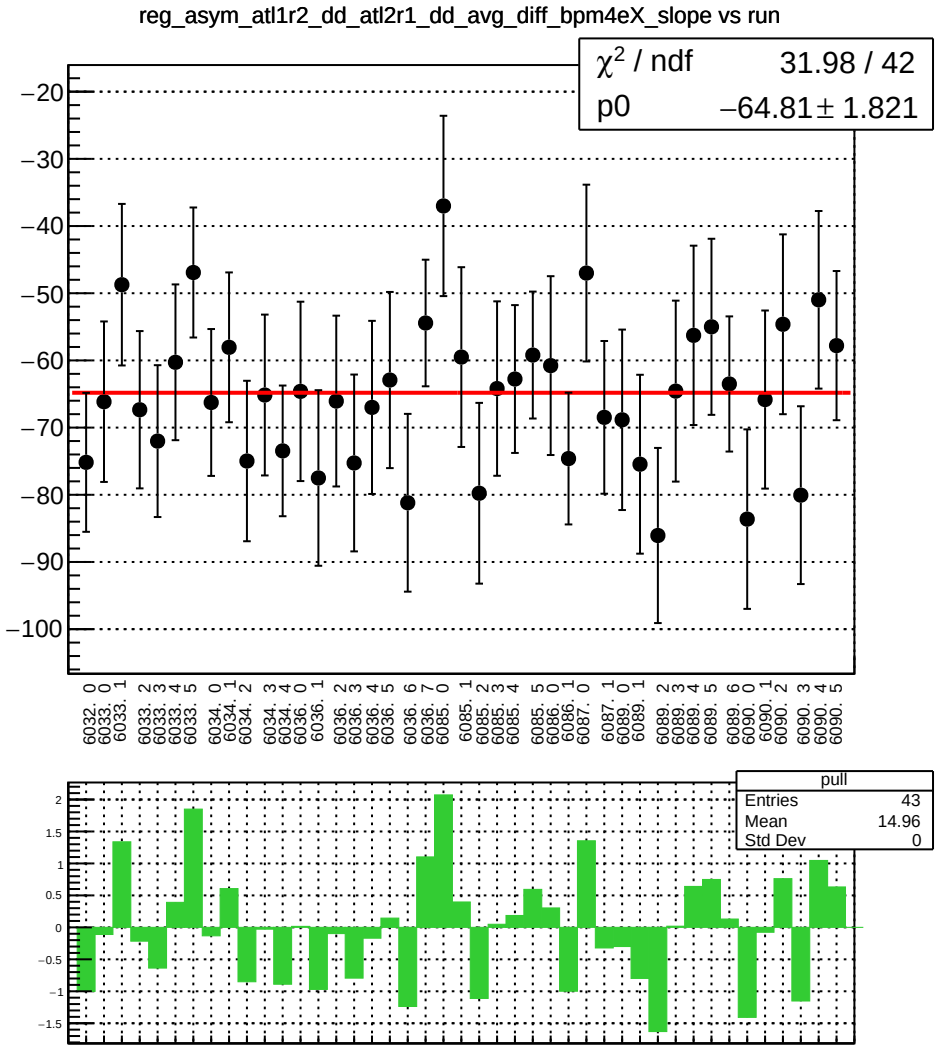

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.12 / 42
p0 −96.85 ± 4.028
pull
Entries 43
Mean −203.3
Std Dev 0
pull1D
Entries 43
Mean 0.01124
Std Dev 0.5729

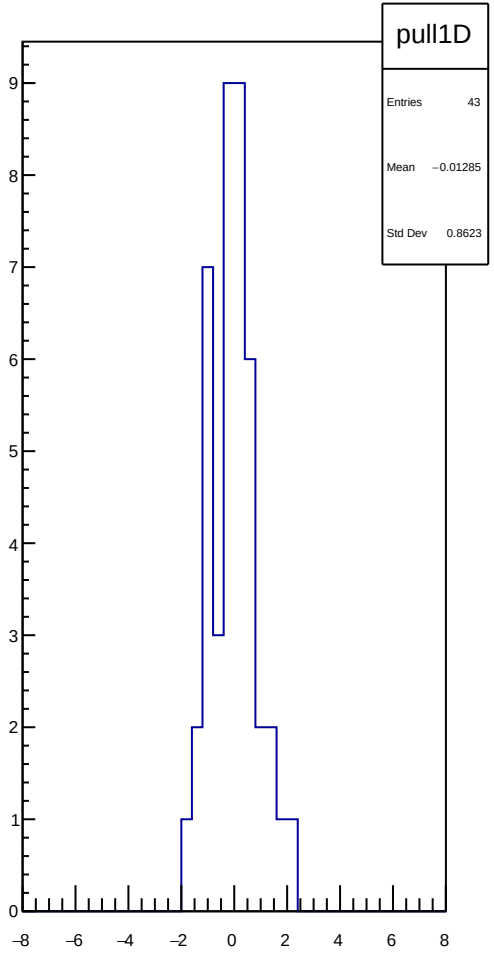

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 15.47 / 42
p0 99.62 ± 0.3347
106
104
102
100
98
96
94
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −44.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03153
Std Dev 0.599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

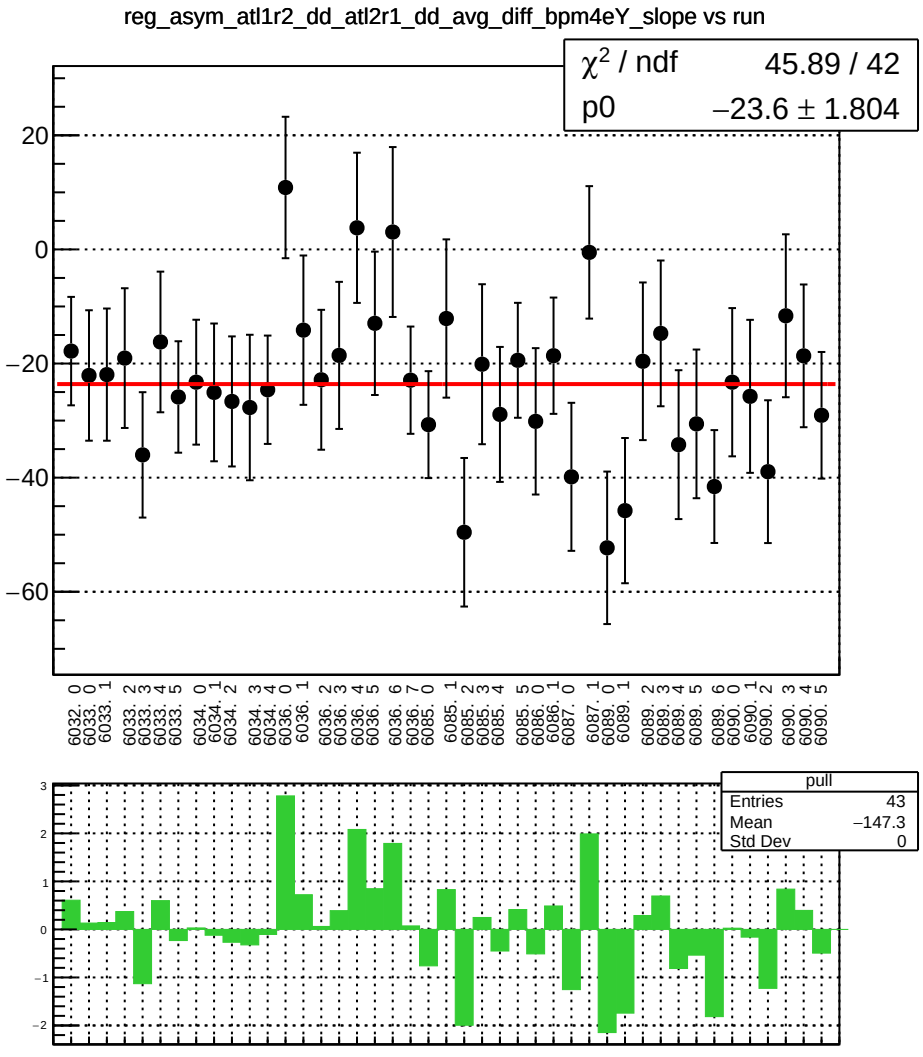

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 36.43 / 42
p0 39.66 ± 1.638
pull
Entries 43
Mean −66.21
Std Dev 0
pull1D
Entries 43
Mean 0.0357
Std Dev 0.9198

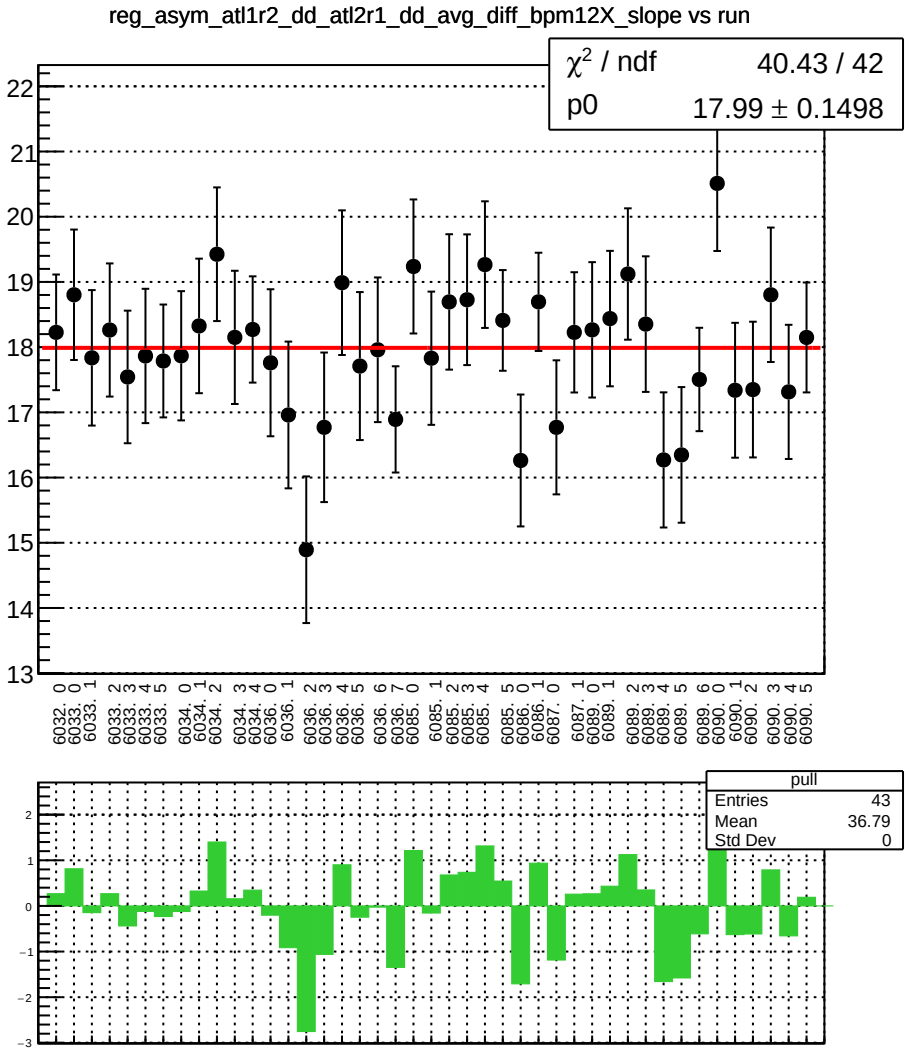

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.67 / 42
p0 8.558 ± 1.67
pull
Entries 43
Mean −229.6
Std Dev 0

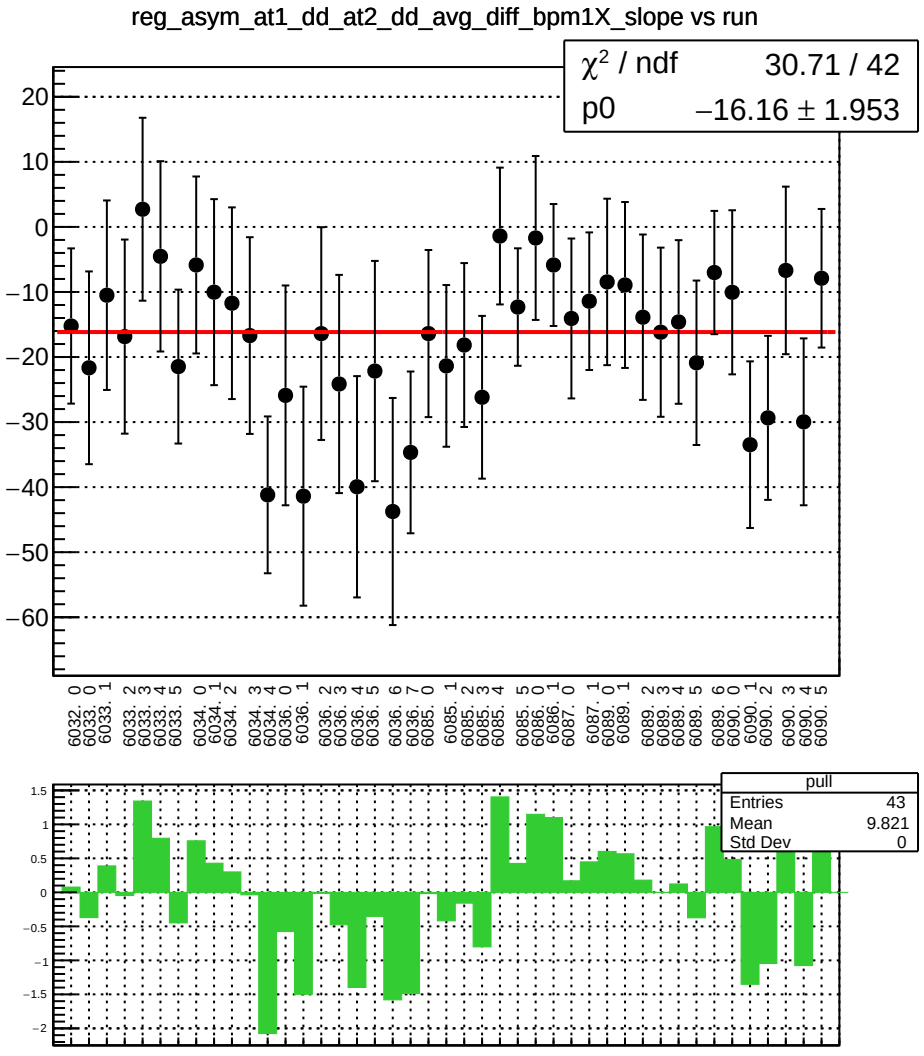

pull1D
Entries 43
Mean −0.008707
Std Dev 0.9844

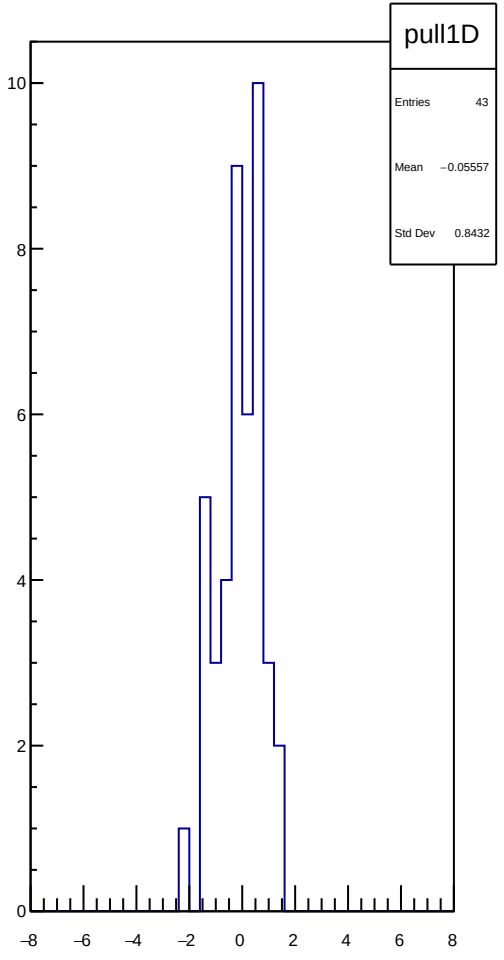

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.98 / 42
p0 −64.81 ± 1.821
pull
Entries 43
Mean 14.96
Std Dev 0

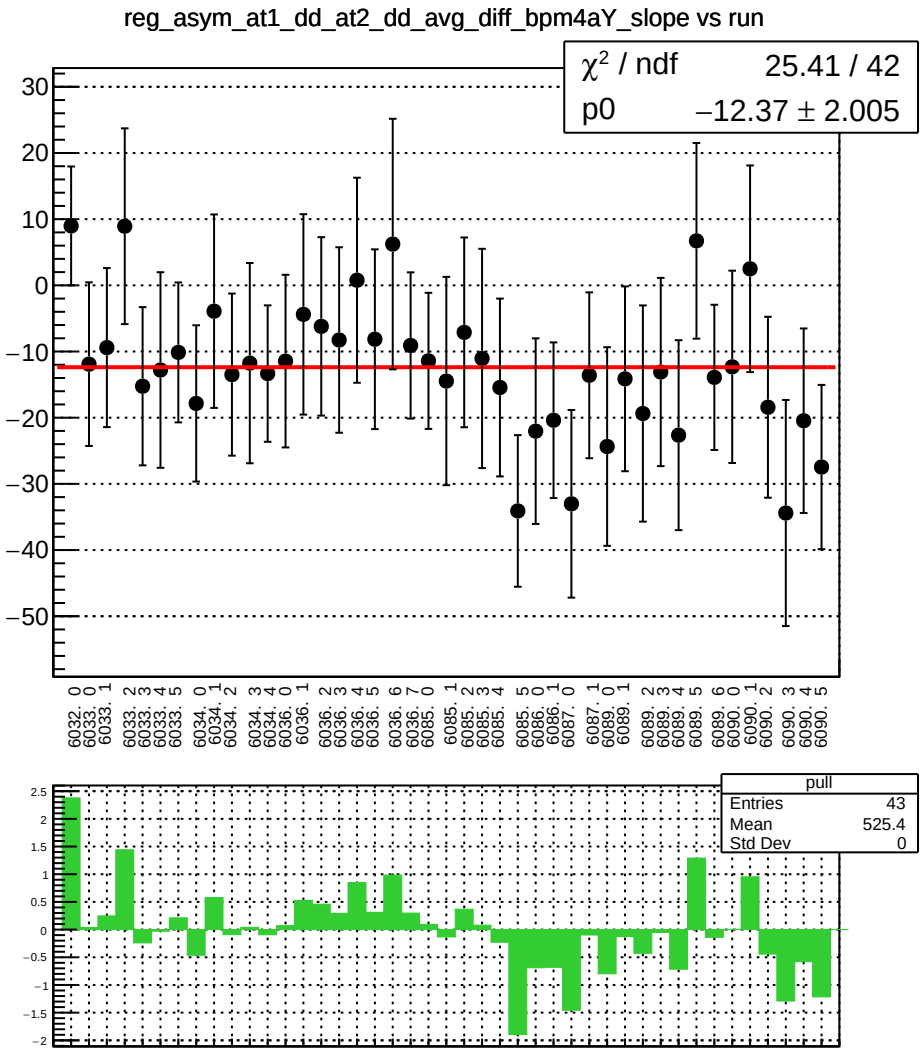

pull1D
Entries 43
Mean −0.01285
Std Dev 0.8623

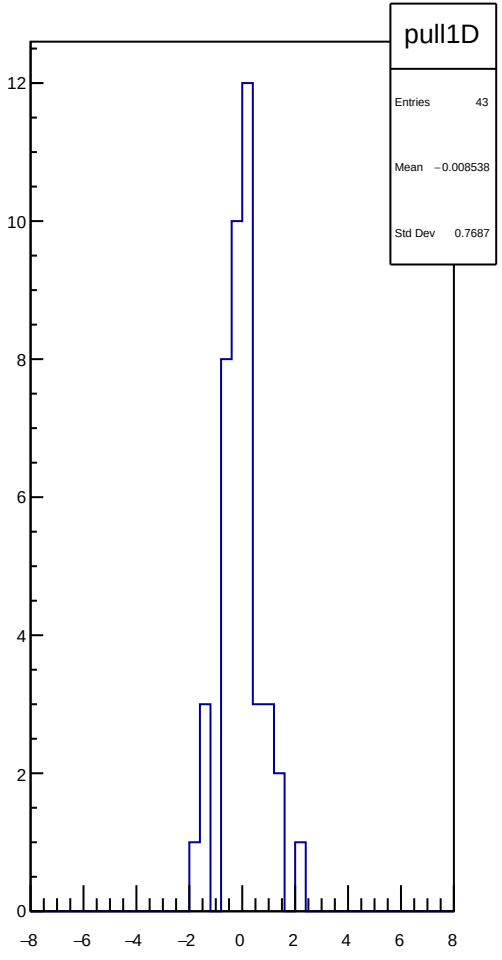

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.89 / 42
p0 −23.6 ± 1.804
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −147.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01792
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

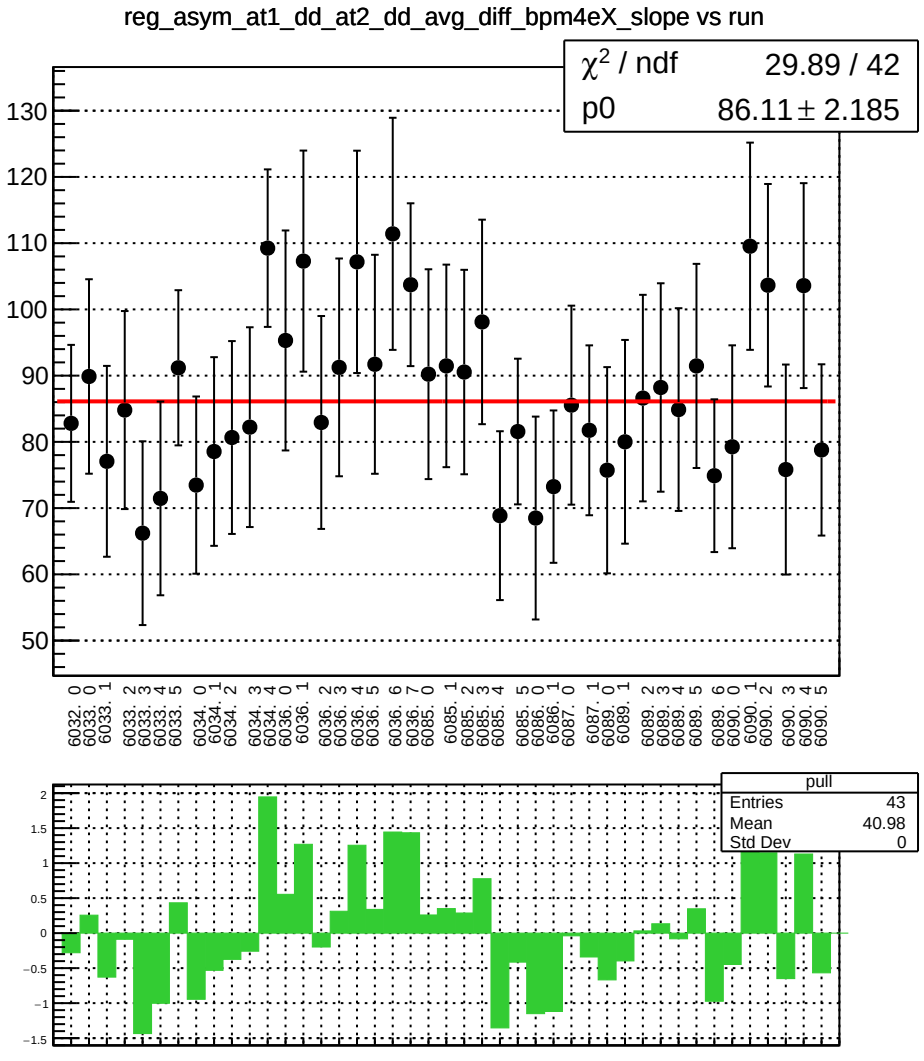

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 40.43 / 42
p0 17.99 ± 0.1498
pull
Entries 43
Mean 36.79
Std Dev 0
pull1D
Entries 43
Mean −0.01547
Std Dev 0.9695

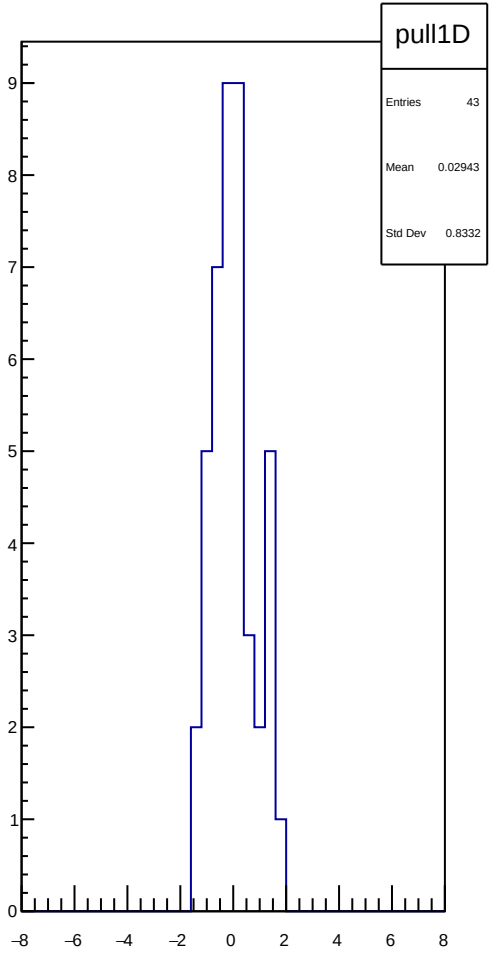

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 30.71 / 42
p0 −16.16 ± 1.953
pull
Entries 43
Mean 9.821
Std Dev 0

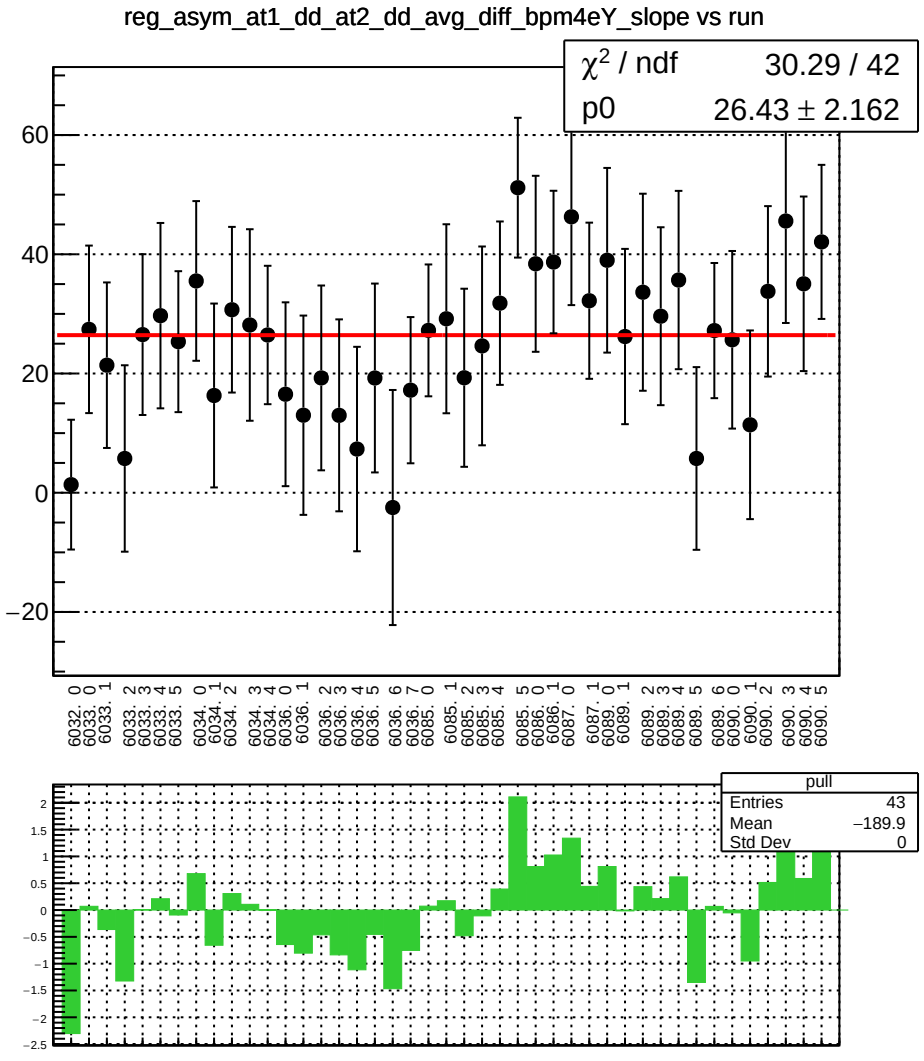

pull1D
Entries 43
Mean −0.05557
Std Dev 0.8432

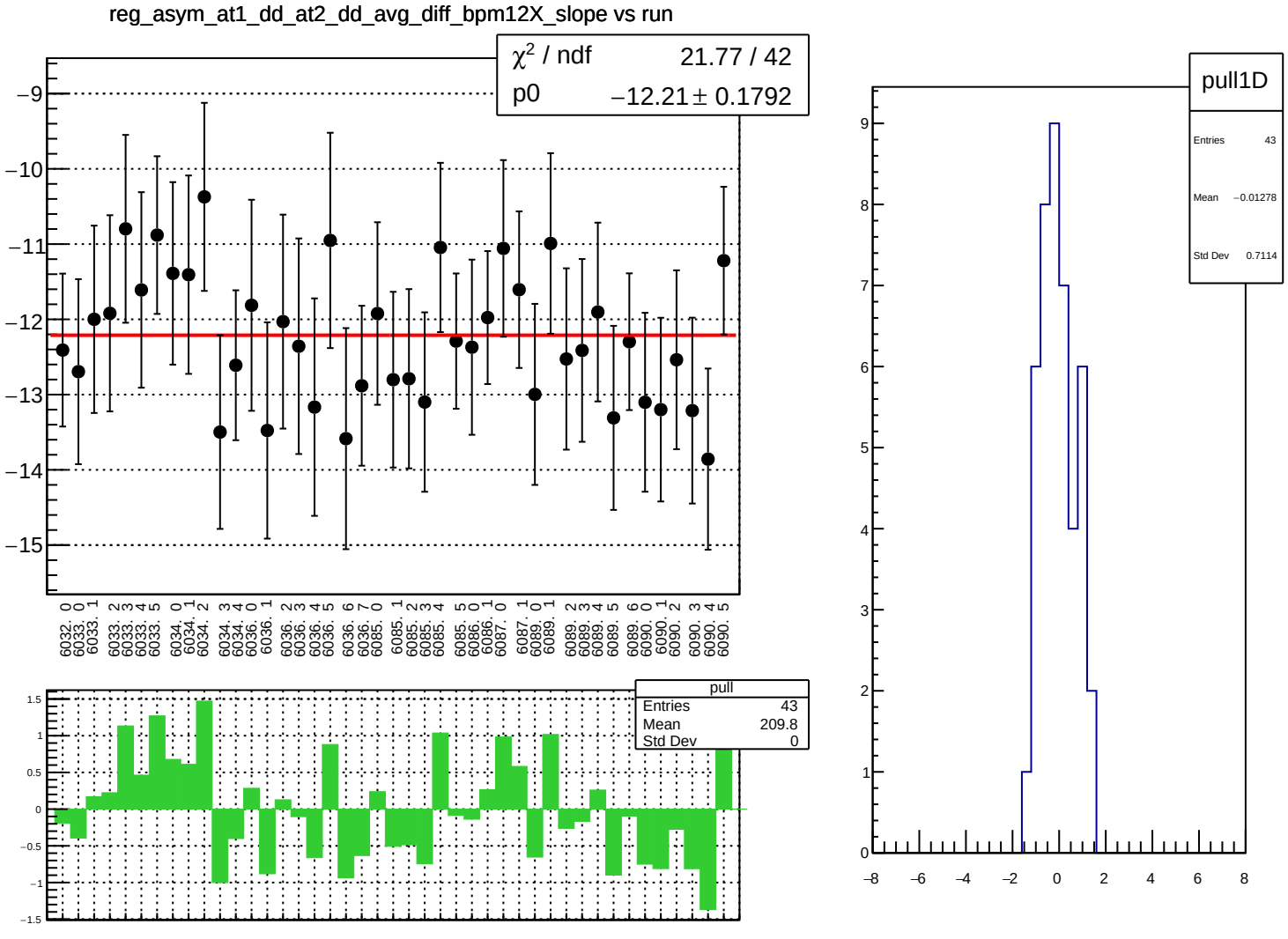

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.41 / 42
p0 −12.37 ± 2.005
pull
Entries 43
Mean 525.4
Std Dev 0

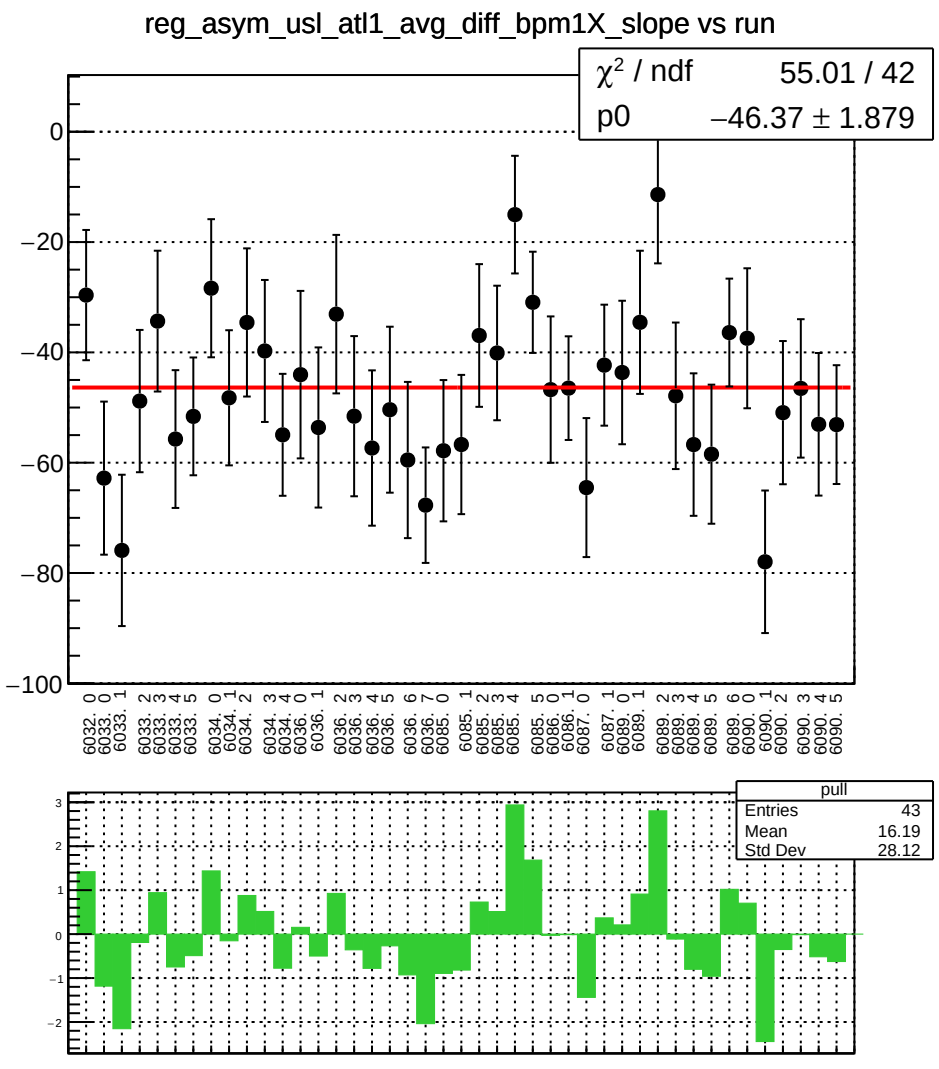

pull1D
Entries 43
Mean −0.008538
Std Dev 0.7687

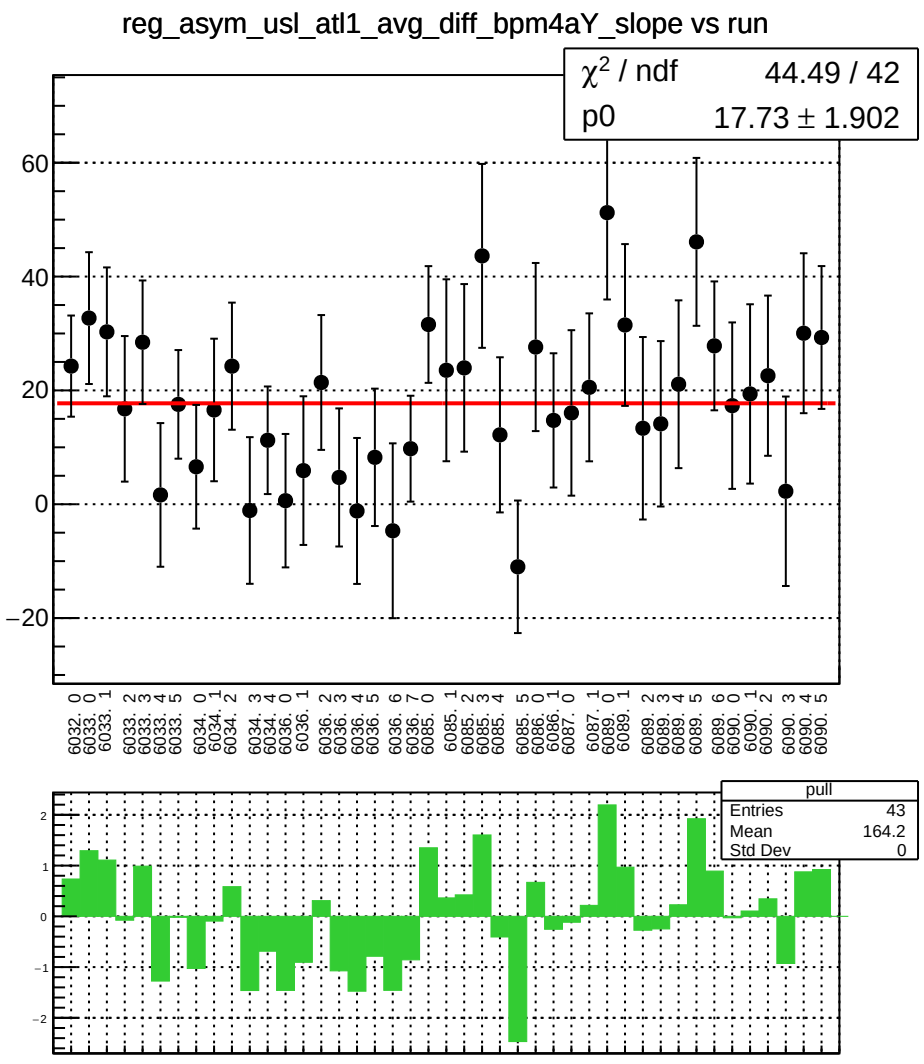

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.89 / 42
p0 86.11 ± 2.185
pull
Entries 43
Mean 40.98
Std Dev 0

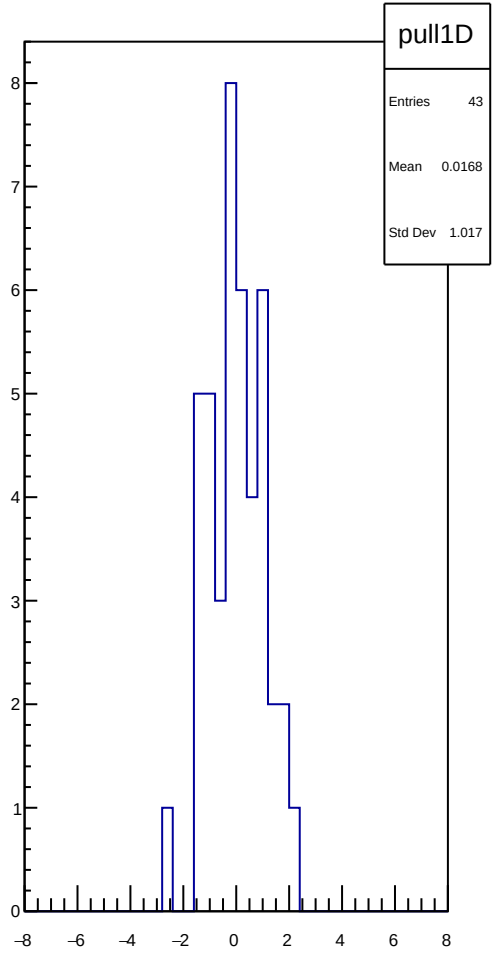

pull1D
Entries 43
Mean 0.02943
Std Dev 0.8332

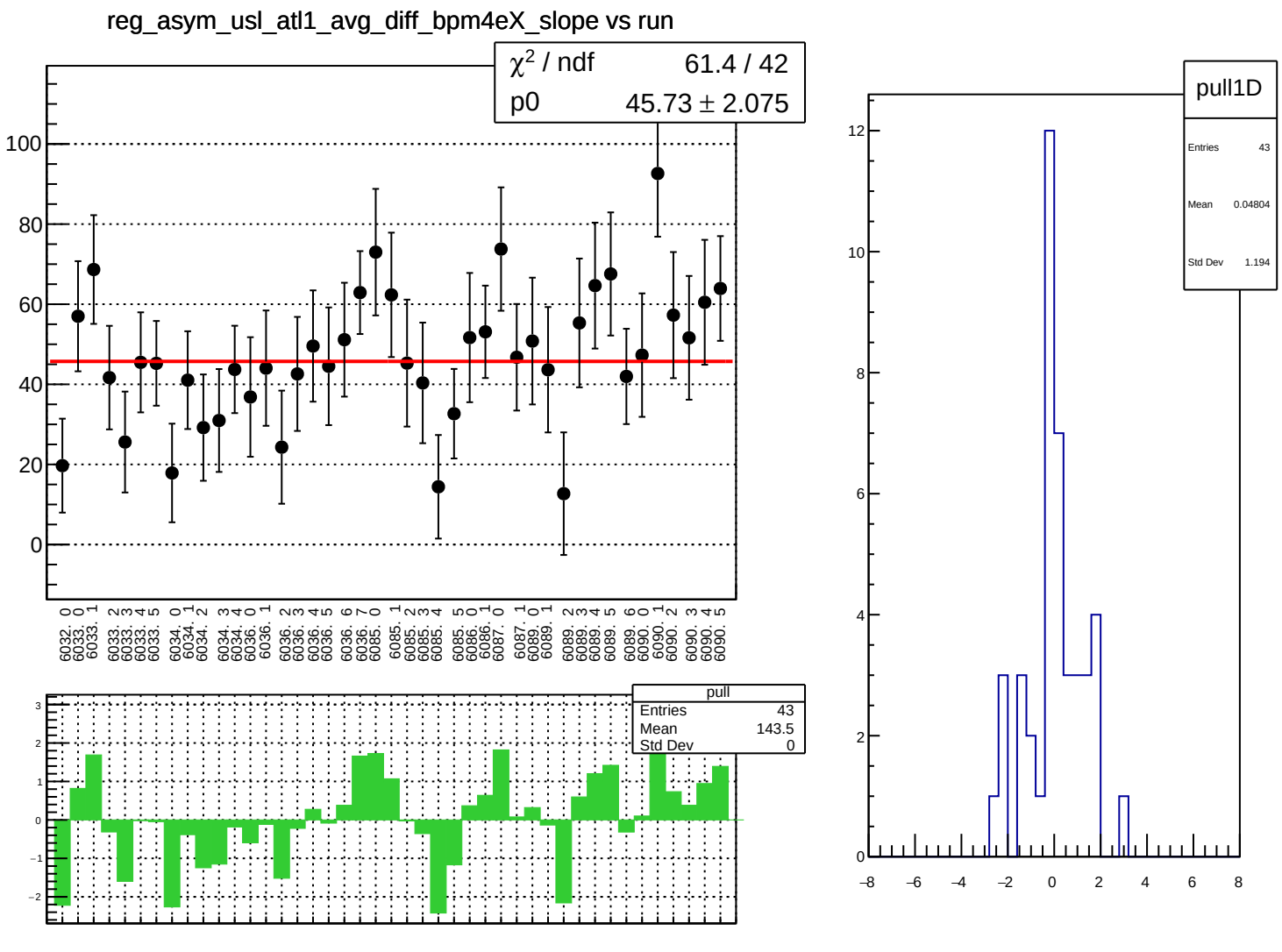

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.29 / 42
p0 26.43 ± 2.162
pull
Entries 43
Mean −189.9
Std Dev 0
pull1D
Entries 43
Mean −0.02099
Std Dev 0.8391

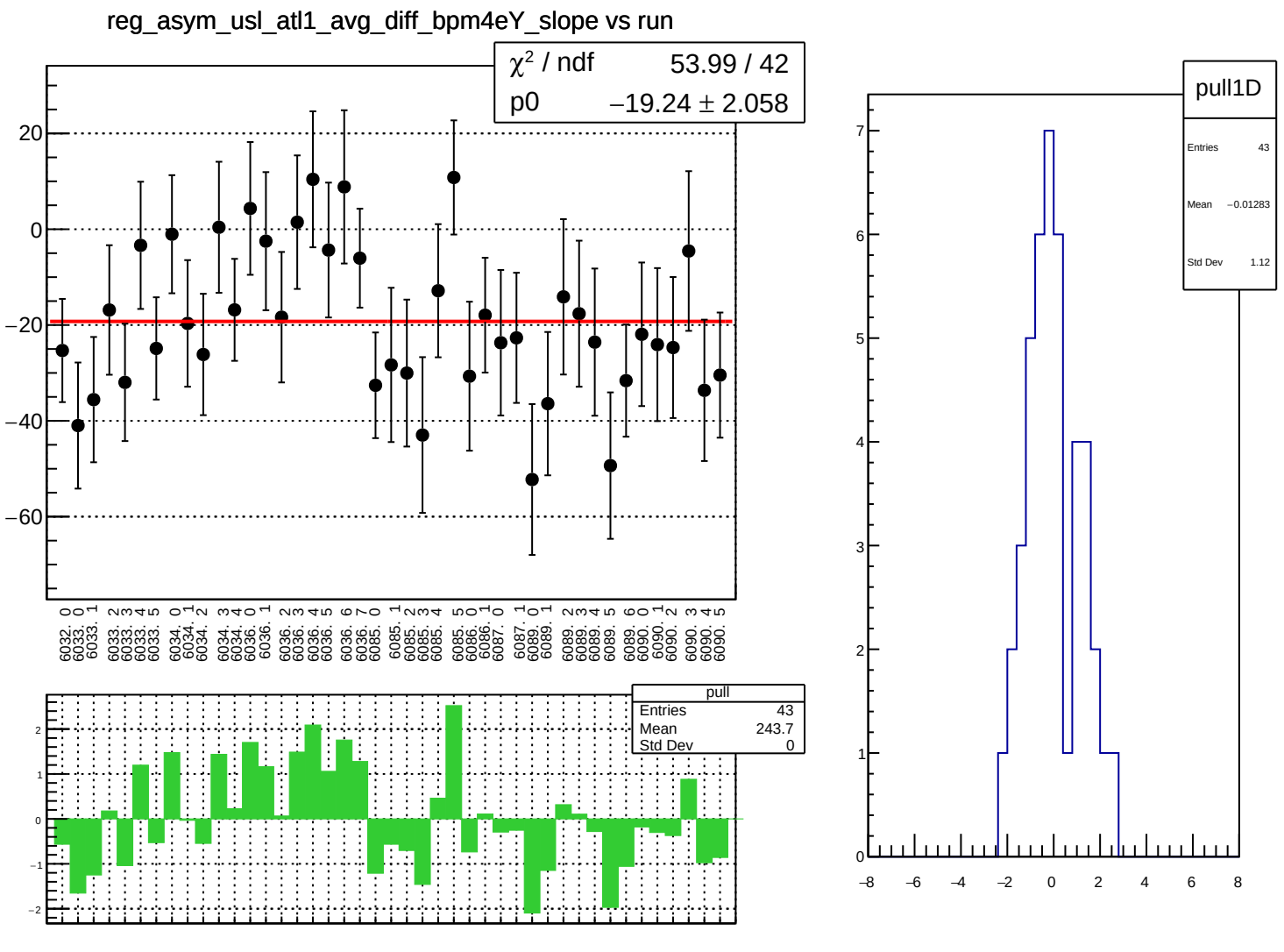

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 21.77 / 42
p0 −12.21 ± 0.1792
pull
Entries 43
Mean 209.8
Std Dev 0
pull1D
Entries 43
Mean −0.01278
Std Dev 0.7114

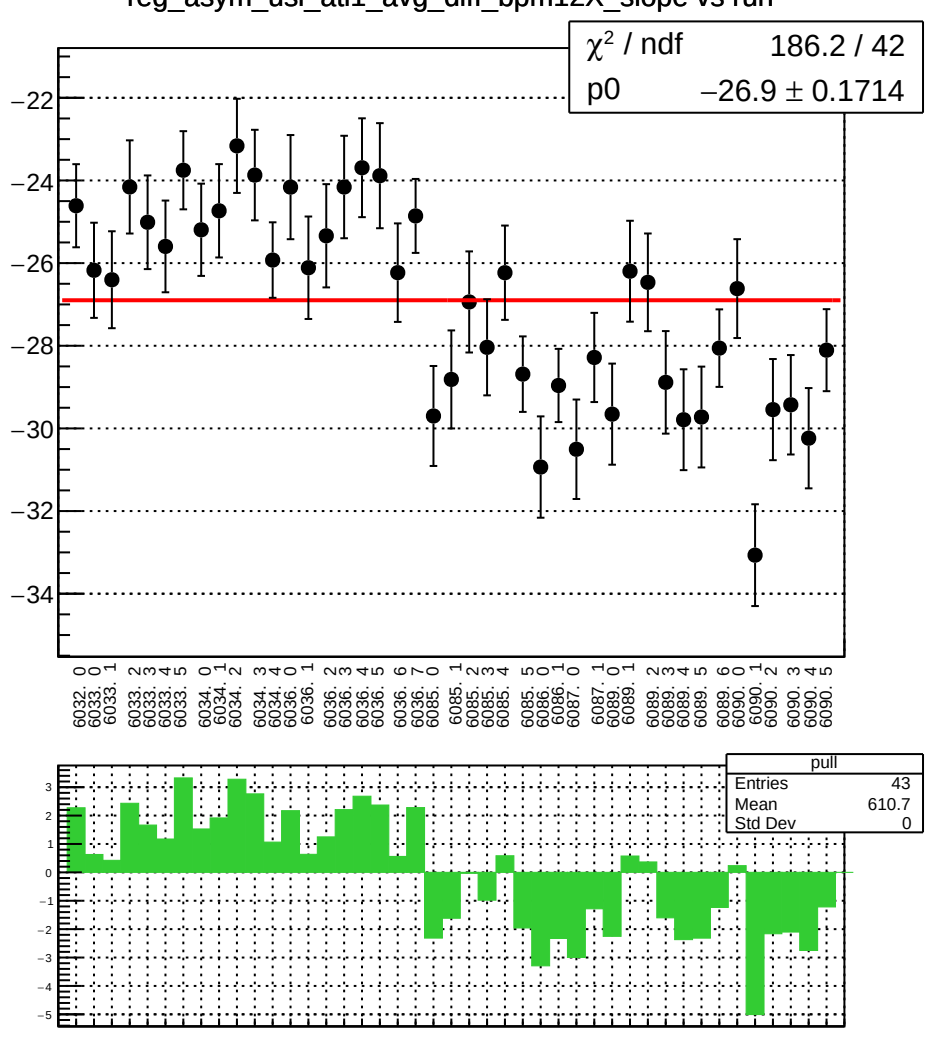

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 55.01 / 42
p0 −46.37 ± 1.879
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 16.19
Std Dev 28.12
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03285
Std Dev 1.131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

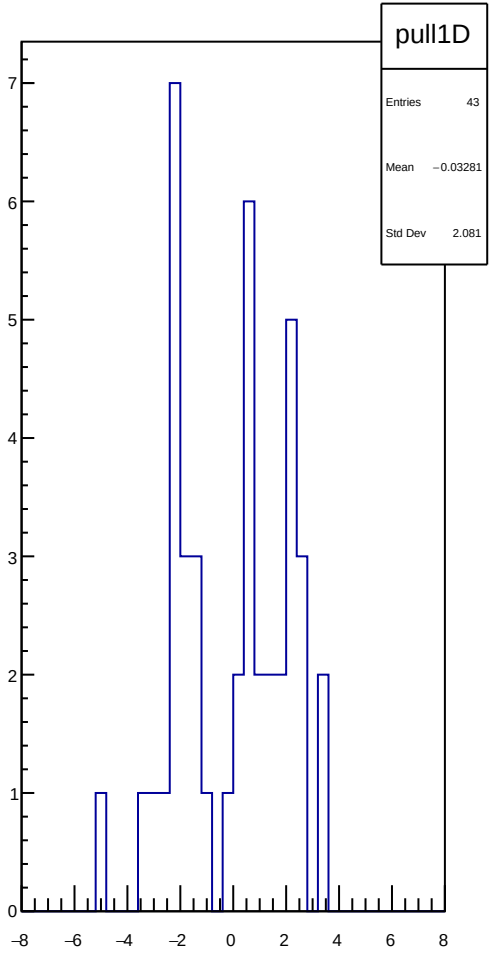

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.49 / 42
p0 17.73 ± 1.902
pull
Entries 43
Mean 164.2
Std Dev 0

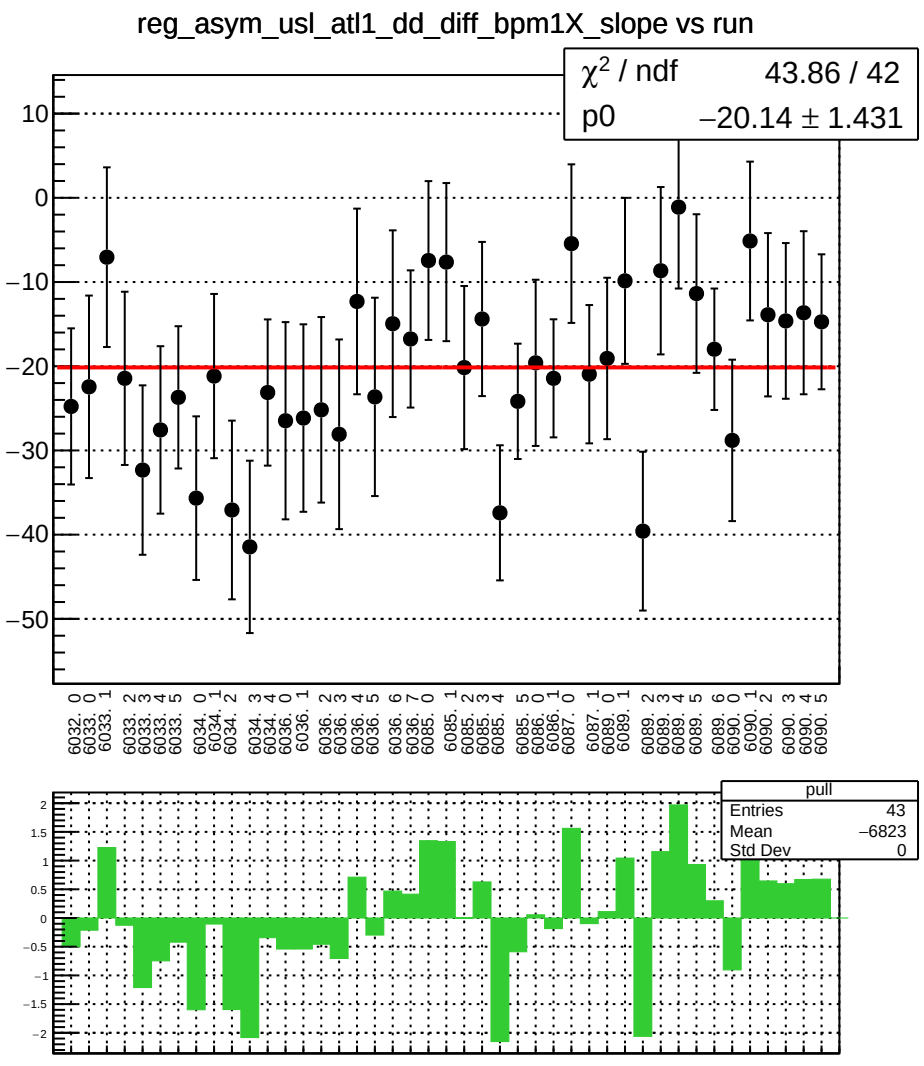

pull1D
Entries 43
Mean 0.0168
Std Dev 1.017

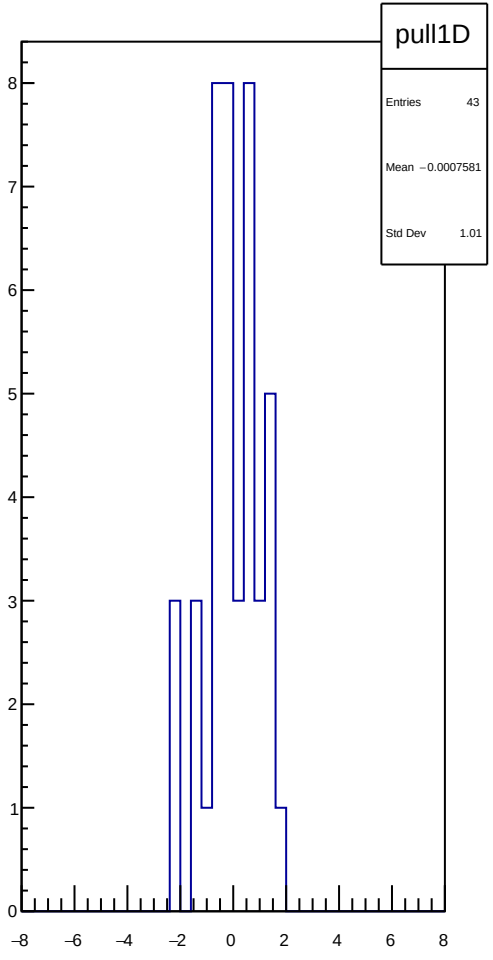

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.4 / 42
p0 45.73 ± 2.075
pull
Entries 43
Mean 143.5
Std Dev 0
pull1D
Entries 43
Mean 0.04804
Std Dev 1.194

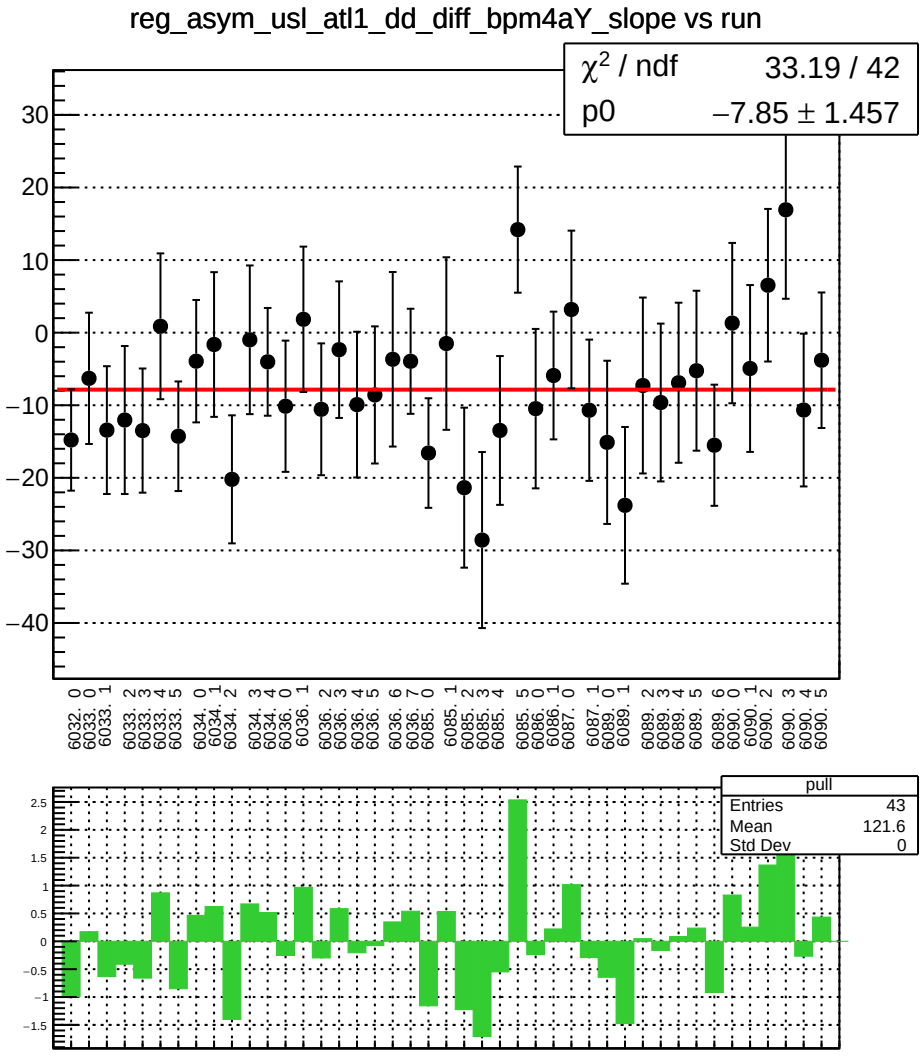

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.99 / 42
p0 −19.24 ± 2.058
20
0
−20
−40
−60
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 243.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01283
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

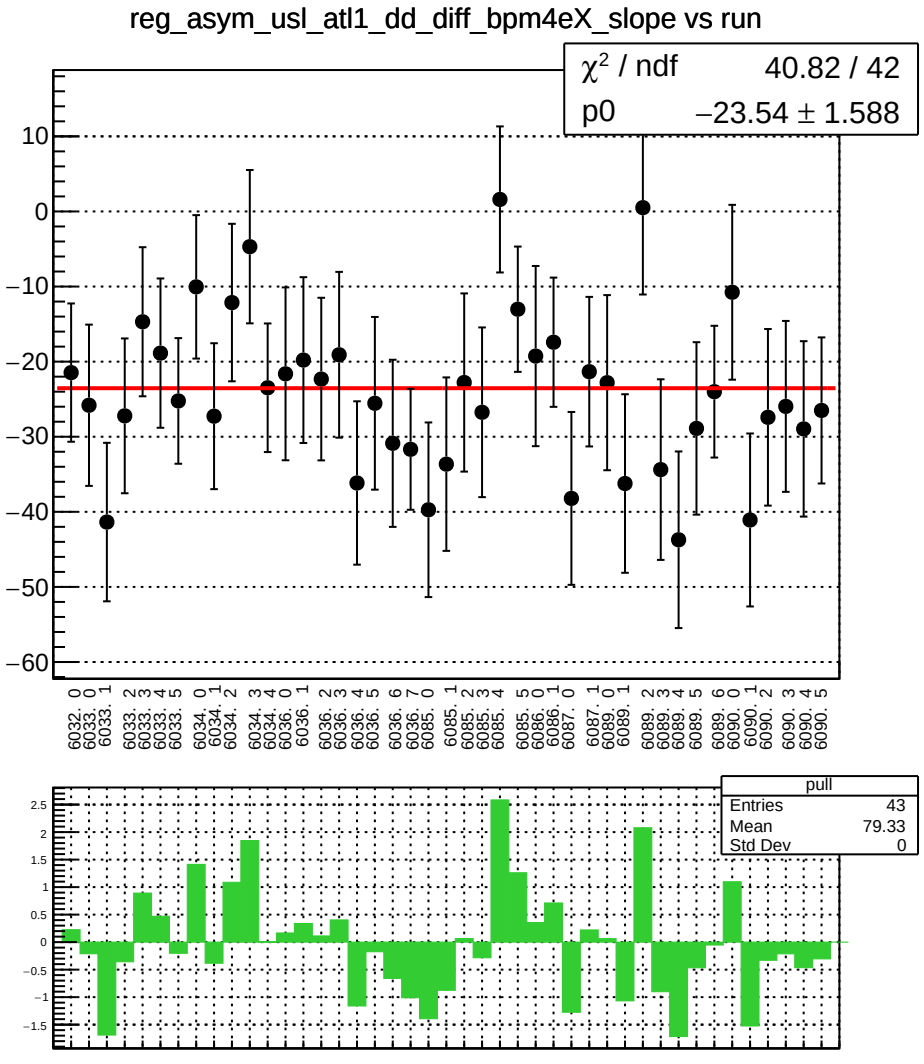

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 186.2 / 42
p0 −26.9 ± 0.1714
pull
Entries 43
Mean 610.7
Std Dev 0

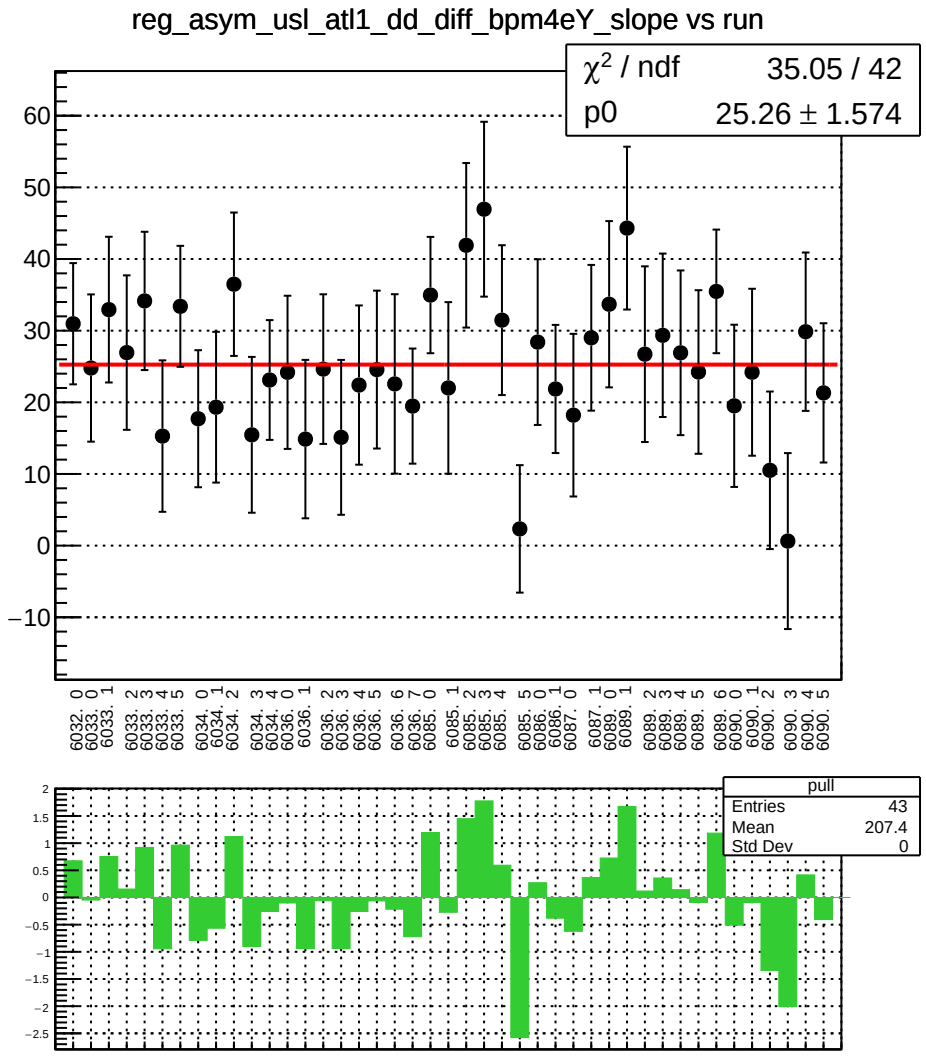

pull1D
Entries 43
Mean −0.03281
Std Dev 2.081

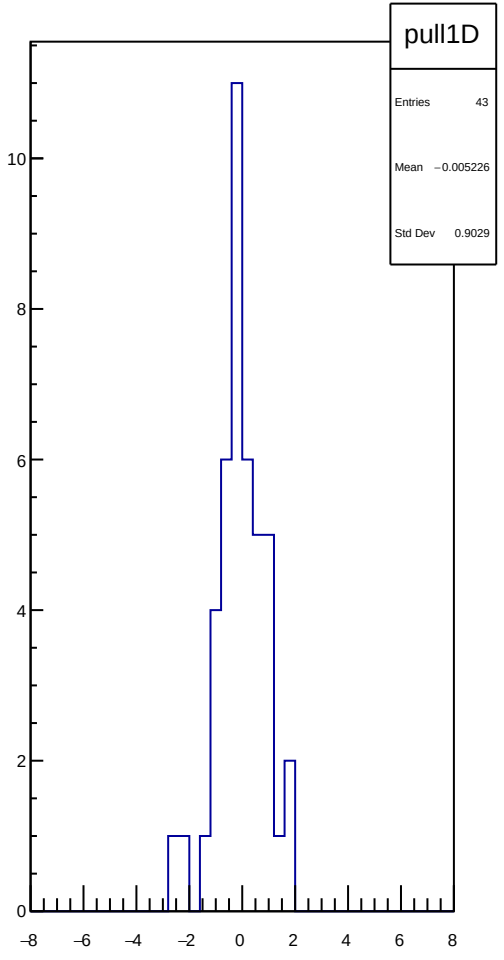

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 43.86 / 42
p0 −20.14 ± 1.431
10
0
−10
−20
−30
−40
−50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −6823
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

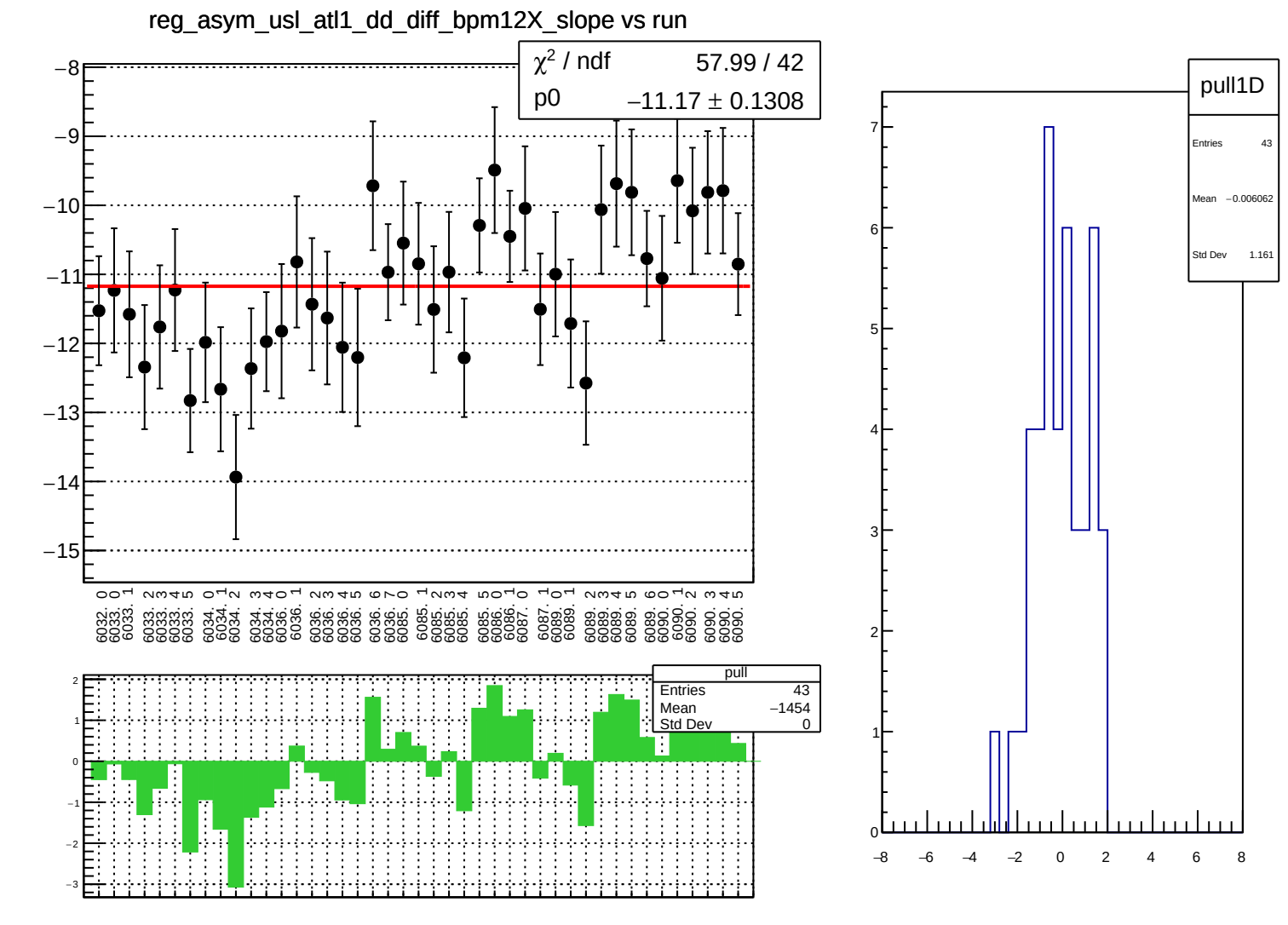

pull1D
Entries 43
Mean −0.0007581
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

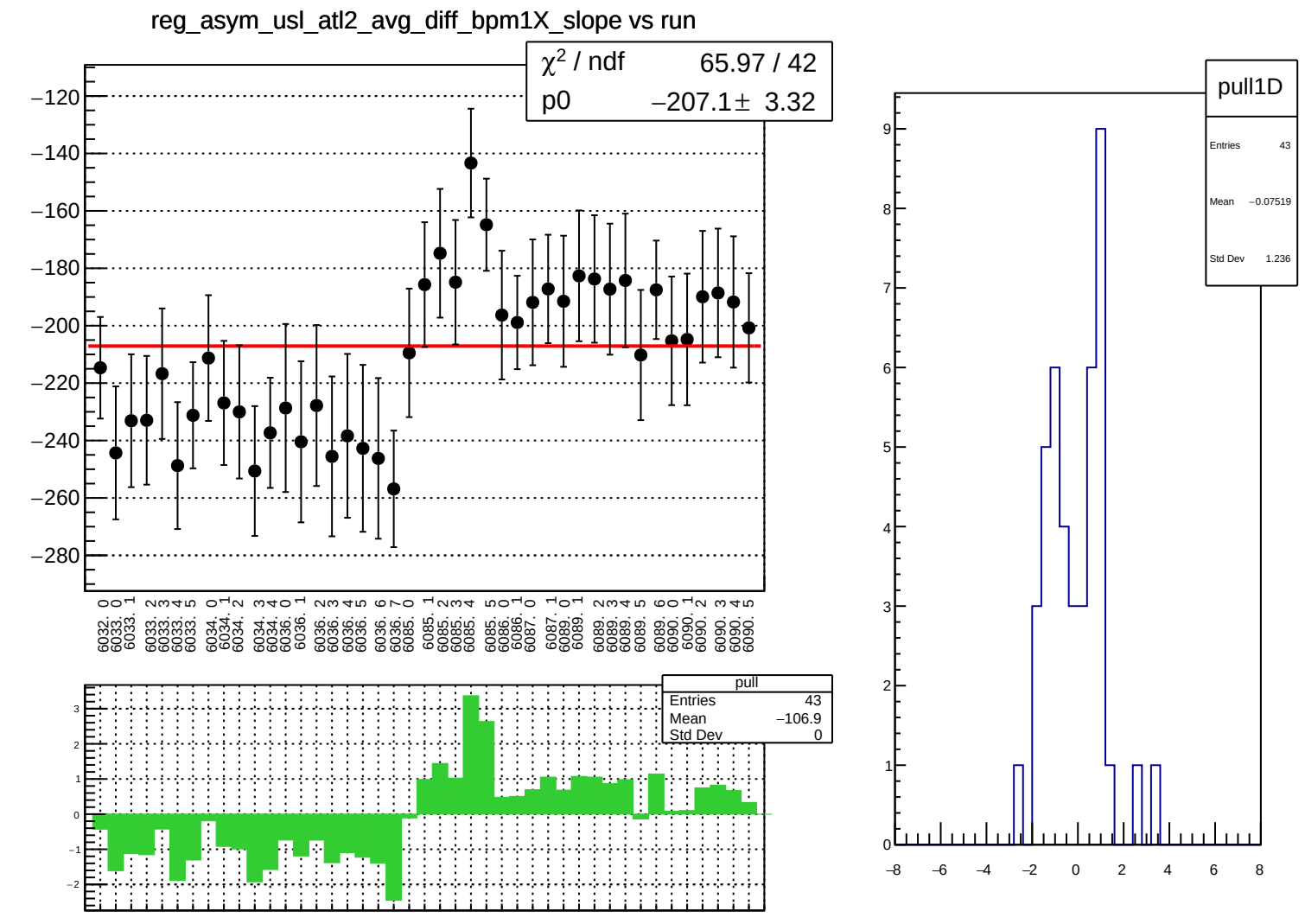

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.19 / 42
p0 −7.85 ± 1.457
pull
Entries 43
Mean 121.6
Std Dev 0
pull1D
Entries 43
Mean 0.02136
Std Dev 0.8783

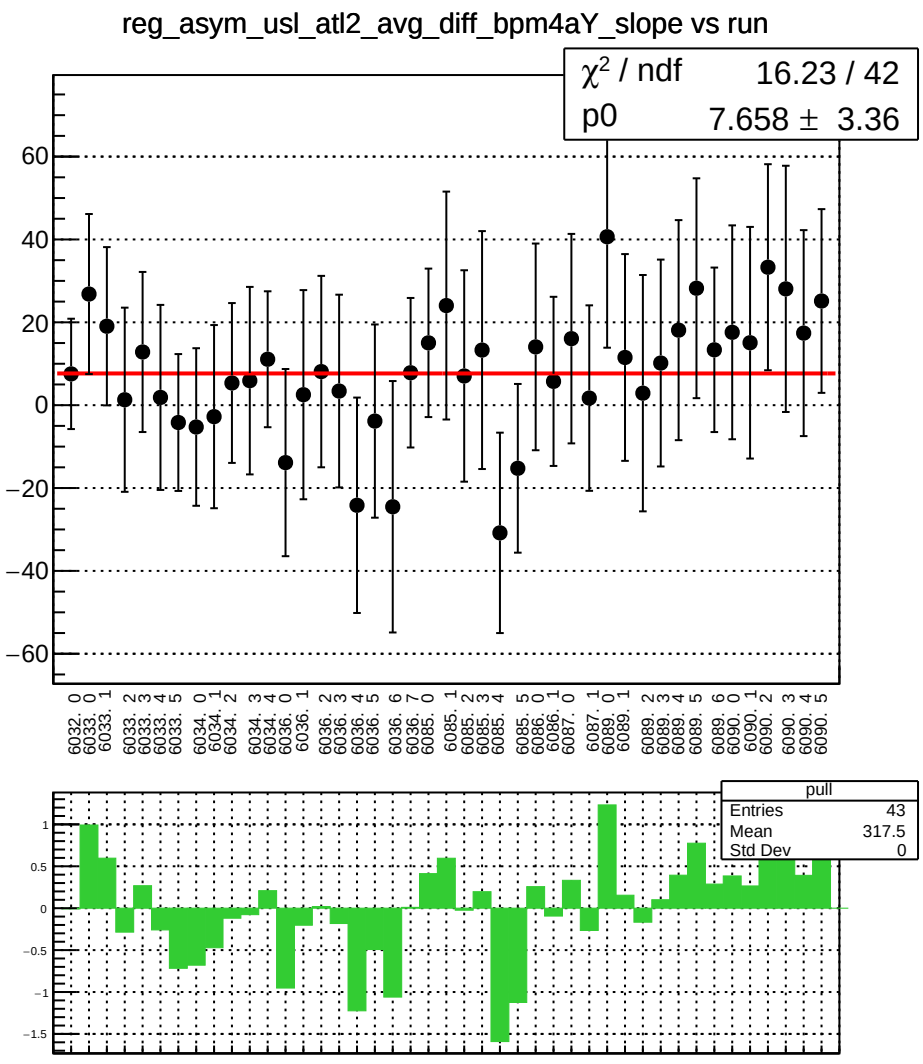

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.82 / 42
p0 −23.54 ± 1.588
pull
Entries 43
Mean 79.33
Std Dev 0
pull1D
Entries 43
Mean −0.03051
Std Dev 0.9738

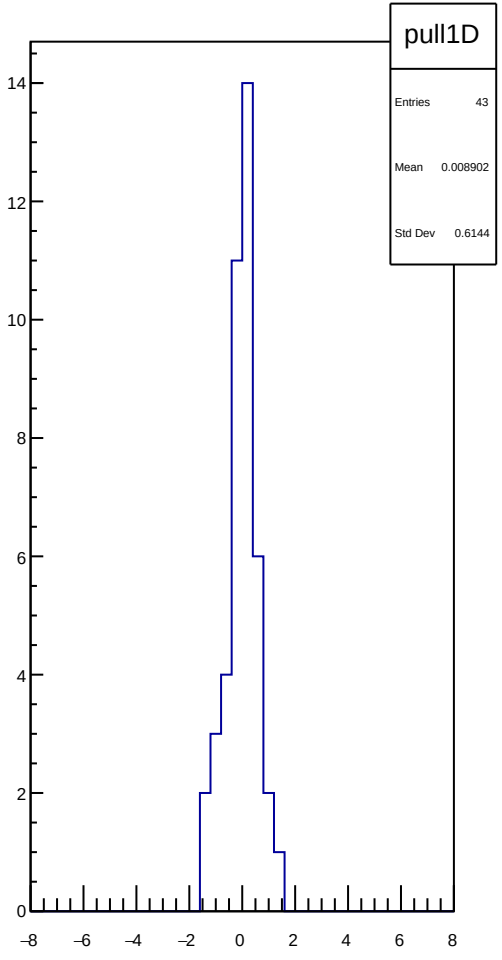

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.05 / 42
p0 25.26 ± 1.574
pull
Entries 43
Mean 207.4
Std Dev 0

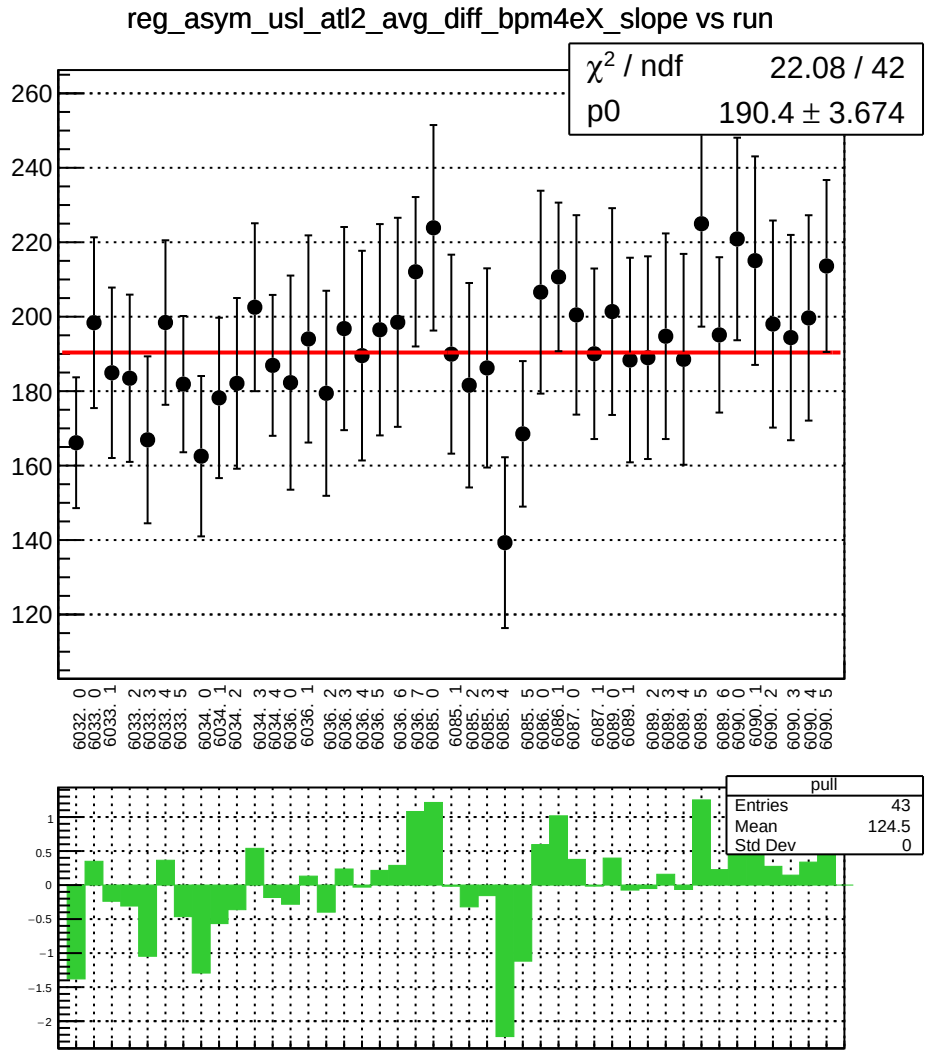

pull1D
Entries 43
Mean −0.005226
Std Dev 0.9029

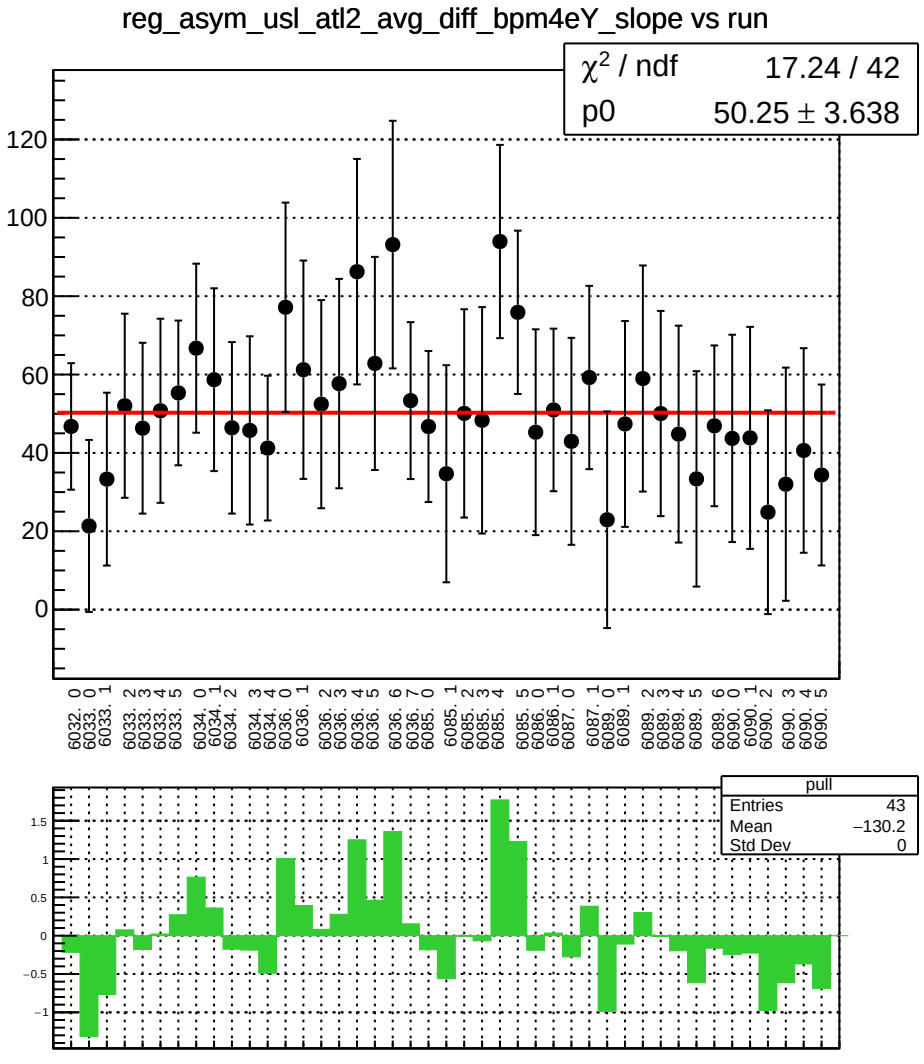

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 57.99 / 42
p0 −11.17 ± 0.1308
pull
Entries 43
Mean −1454
Std Dev 0
pull1D
Entries 43
Mean −0.006062
Std Dev 1.161

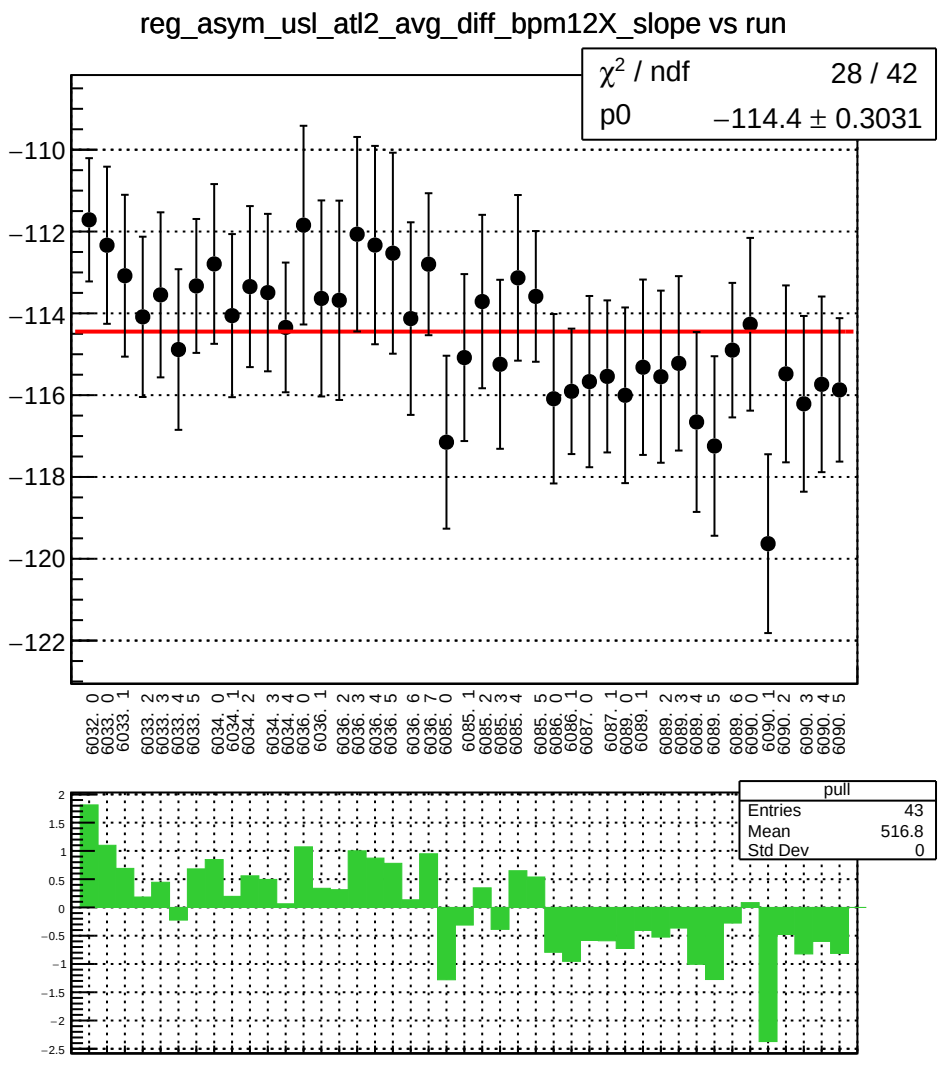

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 65.97 / 42
p0 −207.1± 3.32
−120
−140
−160
−180
−200
−220
−240
−260
−280
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −106.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.07519
Std Dev 1.236
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

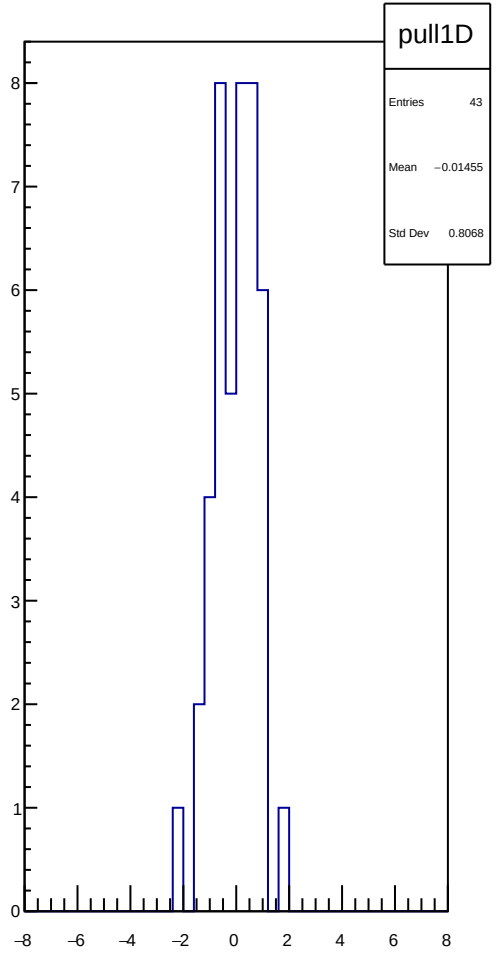

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.23 / 42
p0 7.658 ± 3.36
pull
Entries 43
Mean 317.5
Std Dev 0

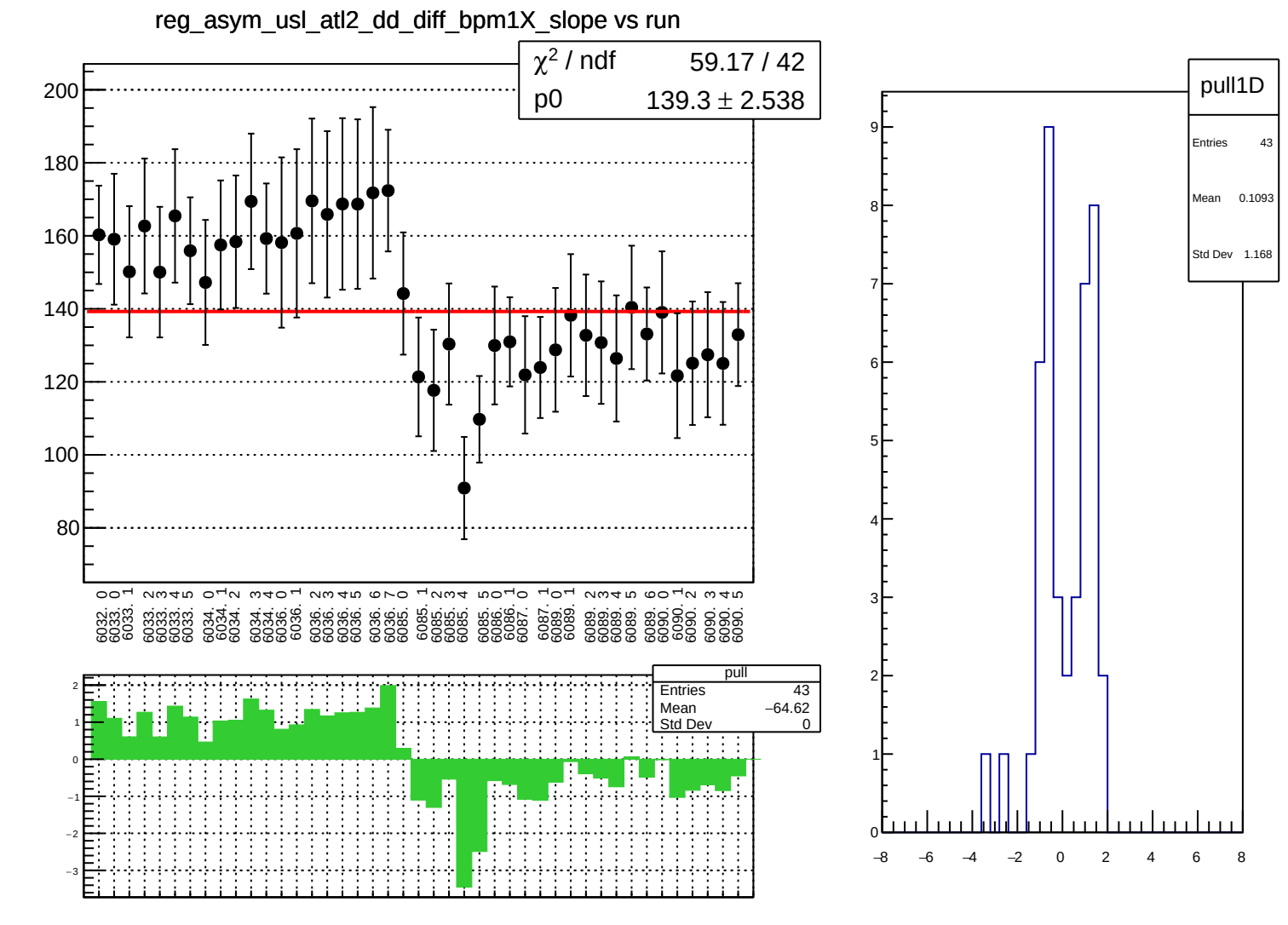

pull1D
Entries 43
Mean 0.008902
Std Dev 0.6144

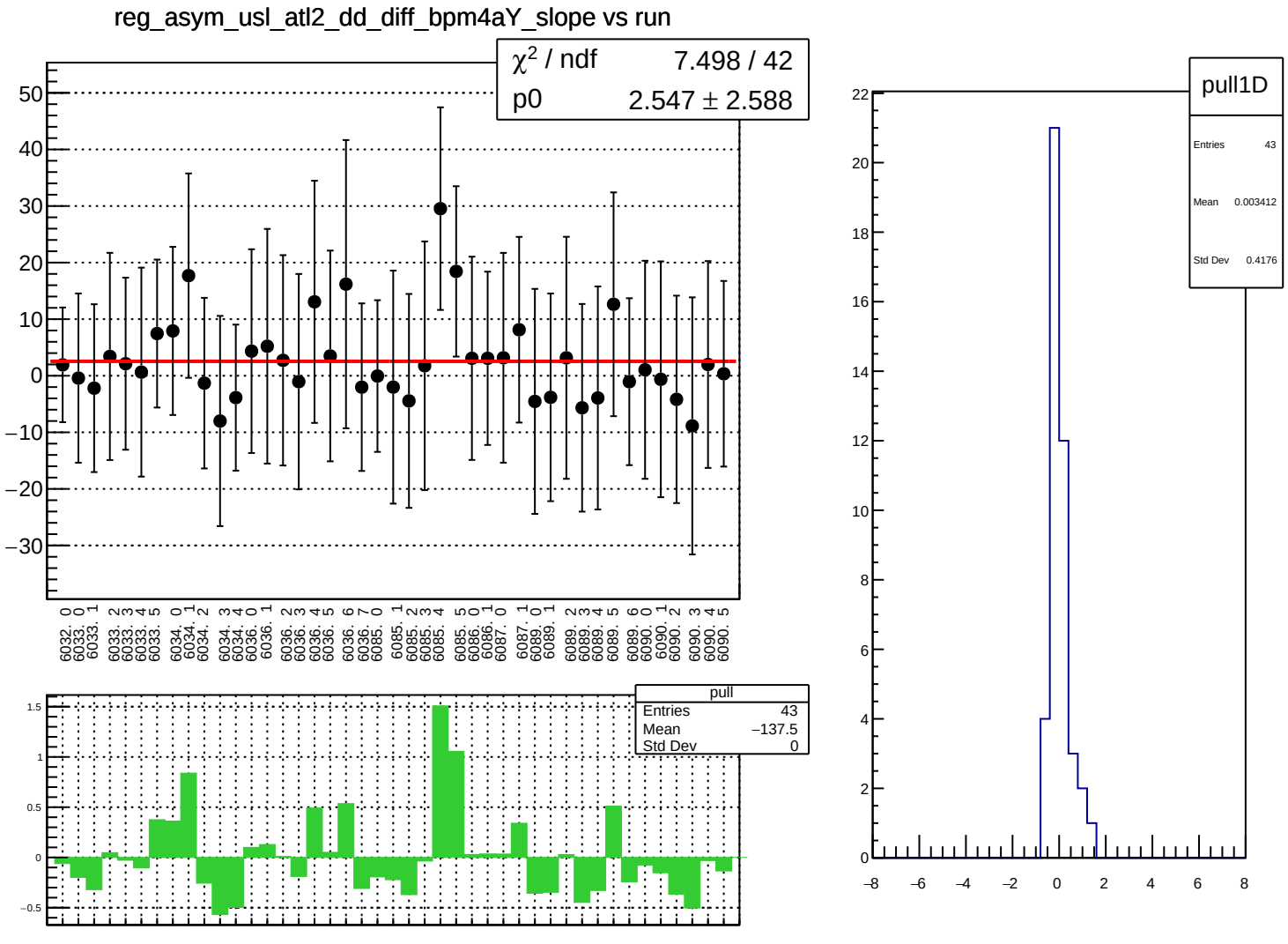

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.08 / 42
p0 190.4 ± 3.674
260
240
220
200
180
160
140
120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 124.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03772
Std Dev 0.7156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

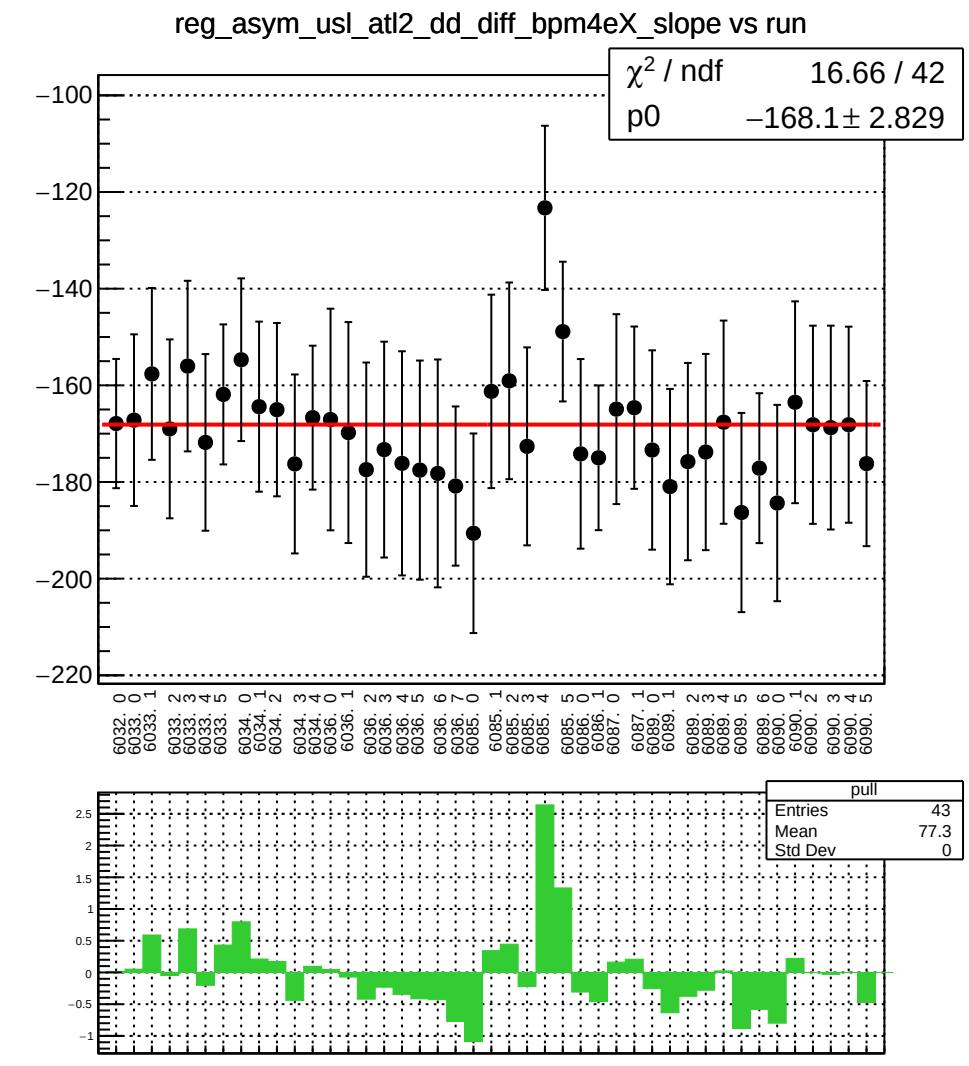

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.24 / 42
p0 50.25 ± 3.638
120
100
80
60
40
20
0
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −130.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.009061
Std Dev 0.6332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

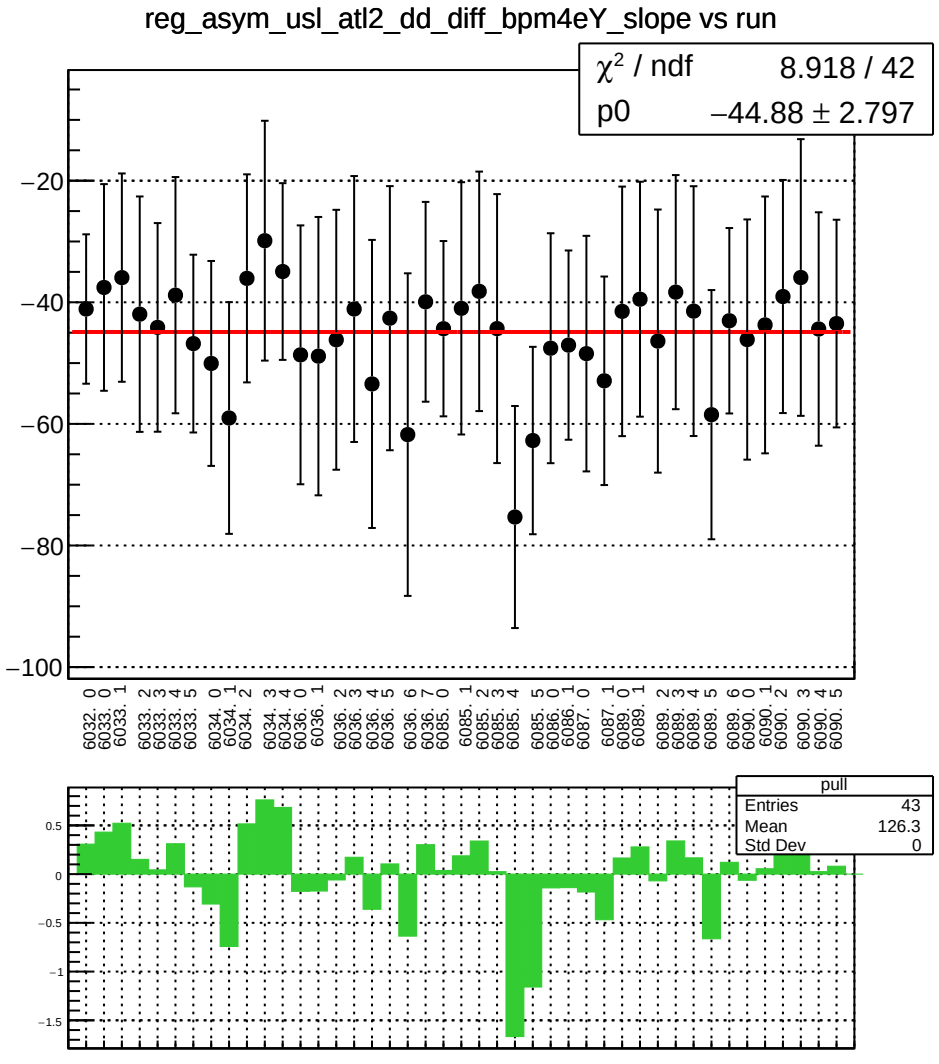

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 28 / 42
p0 −114.4 ± 0.3031
pull
Entries 43
Mean 516.8
Std Dev 0

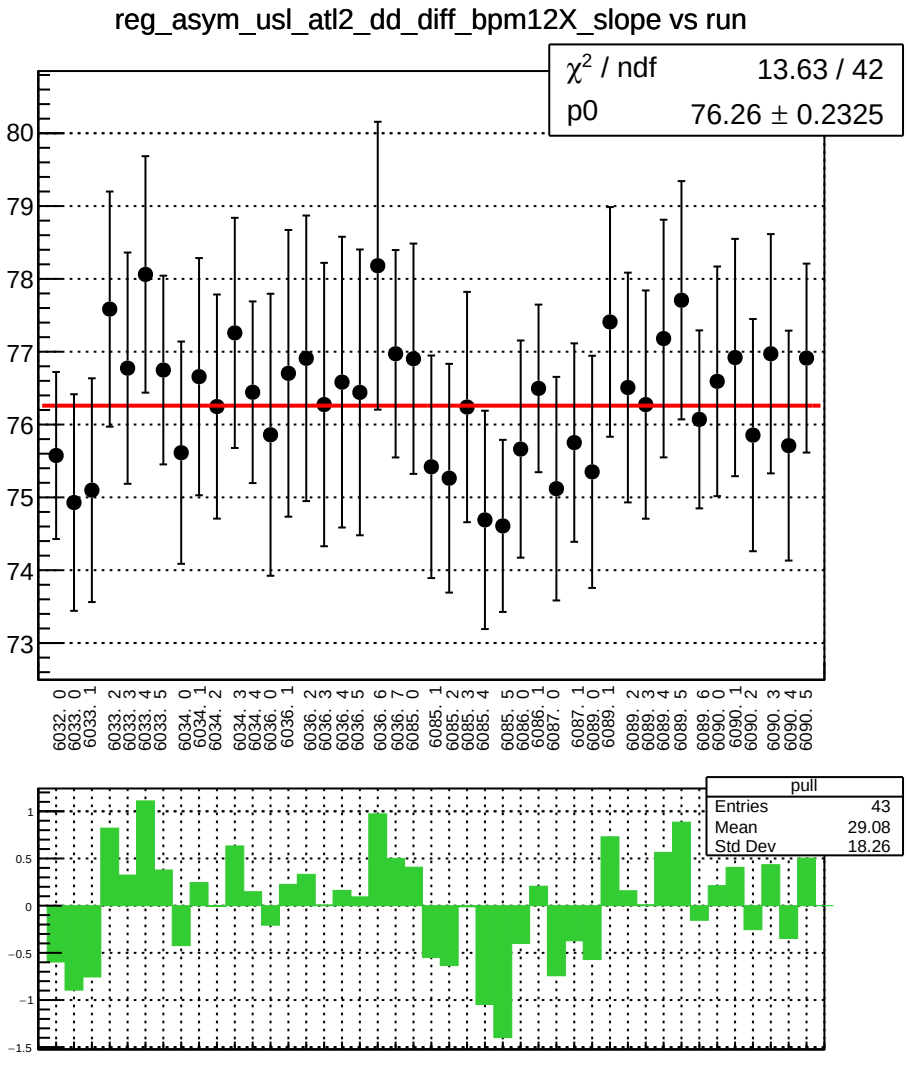

pull1D
Entries 43
Mean −0.01455
Std Dev 0.8068

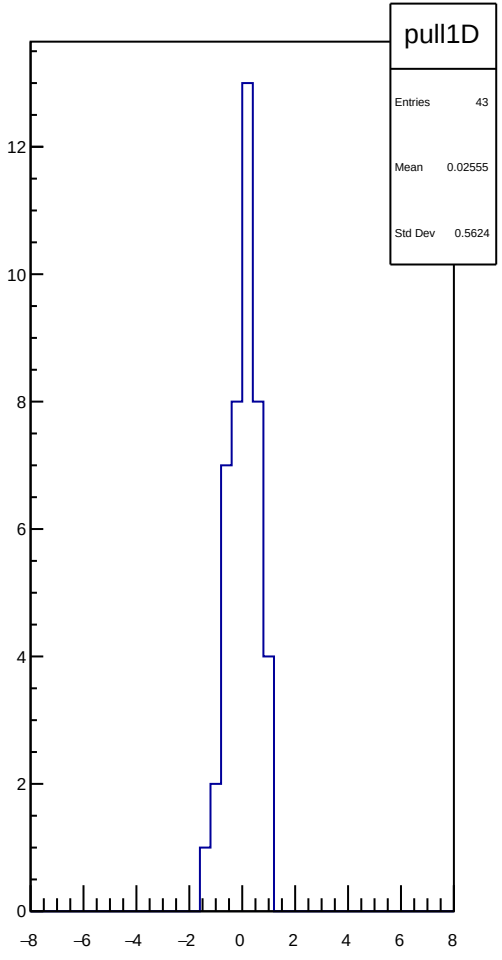

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 59.17 / 42
p0 139.3 ± 2.538
200
180
160
140
120
100
80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −64.62
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.1093
Std Dev 1.168
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

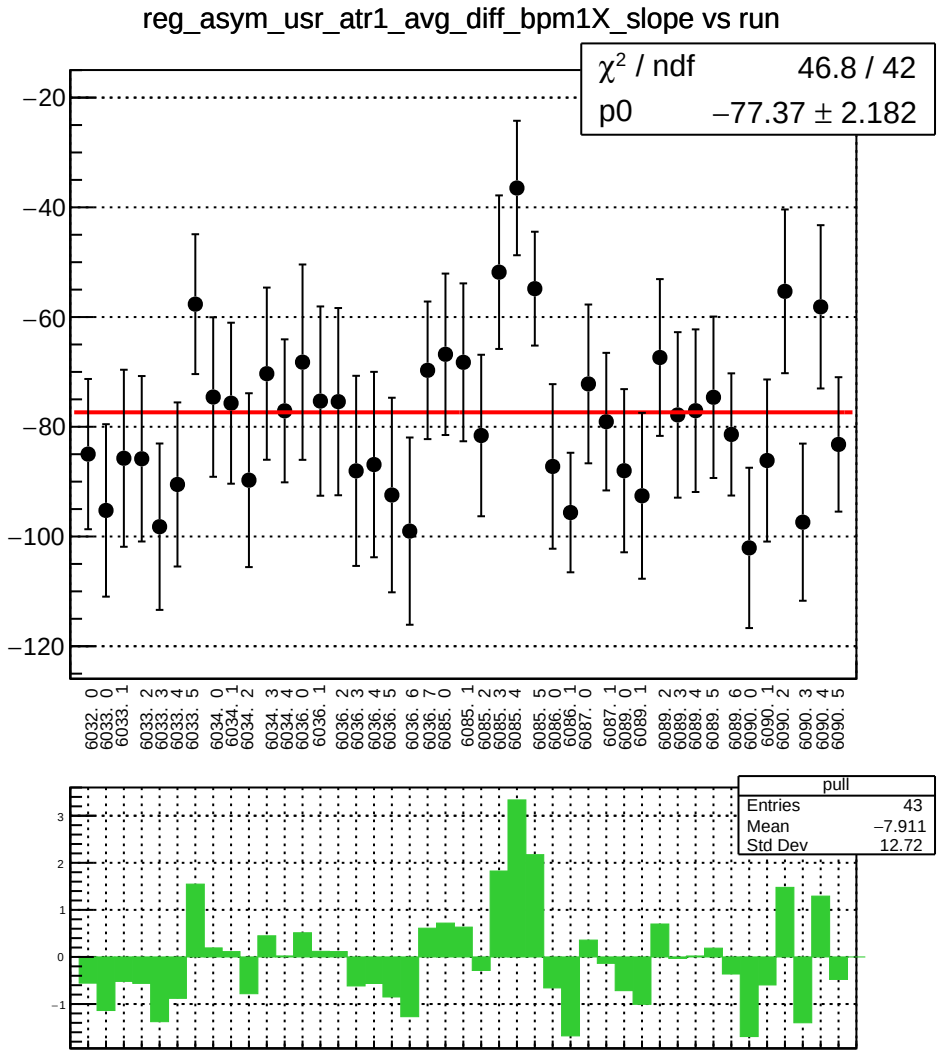

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.498 / 42
p0 2.547 ± 2.588
pull
Entries 43
Mean −137.5
Std Dev 0
pull1D
Entries 43
Mean 0.003412
Std Dev 0.4176

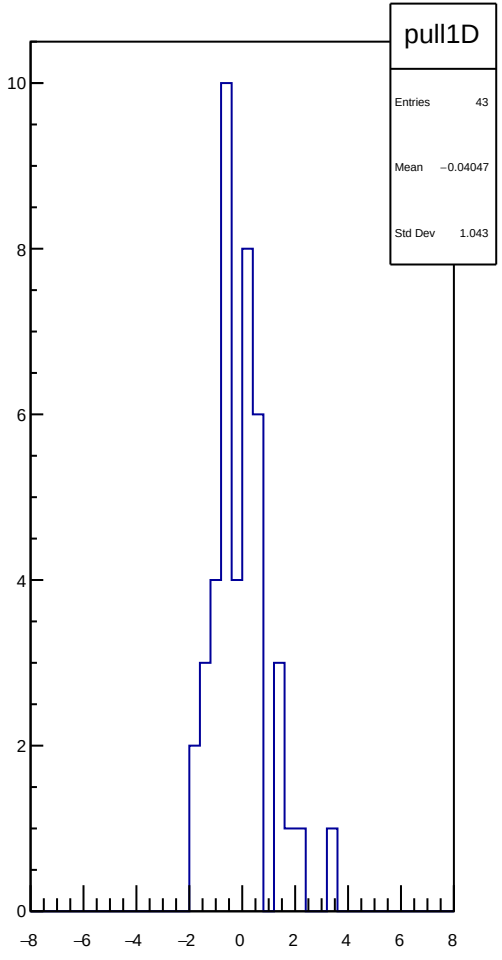

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.66 / 42
p0 −168.1± 2.829
−100
−120
−140
−160
−180
−200
−220
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 77.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02984
Std Dev 0.6217
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

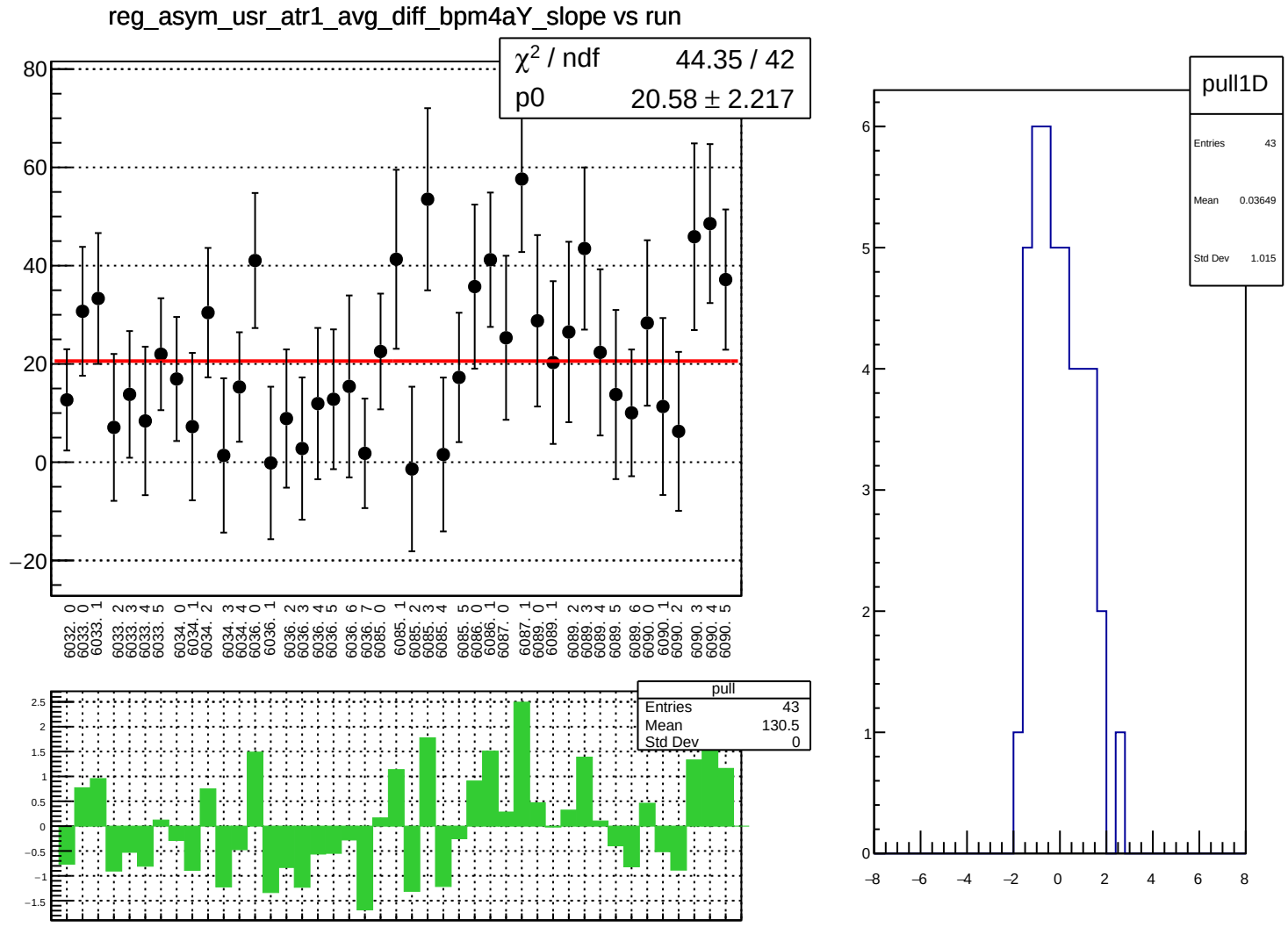

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.918 / 42
p0 −44.88 ± 2.797
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 126.3
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.007175
Std Dev 0.4553
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

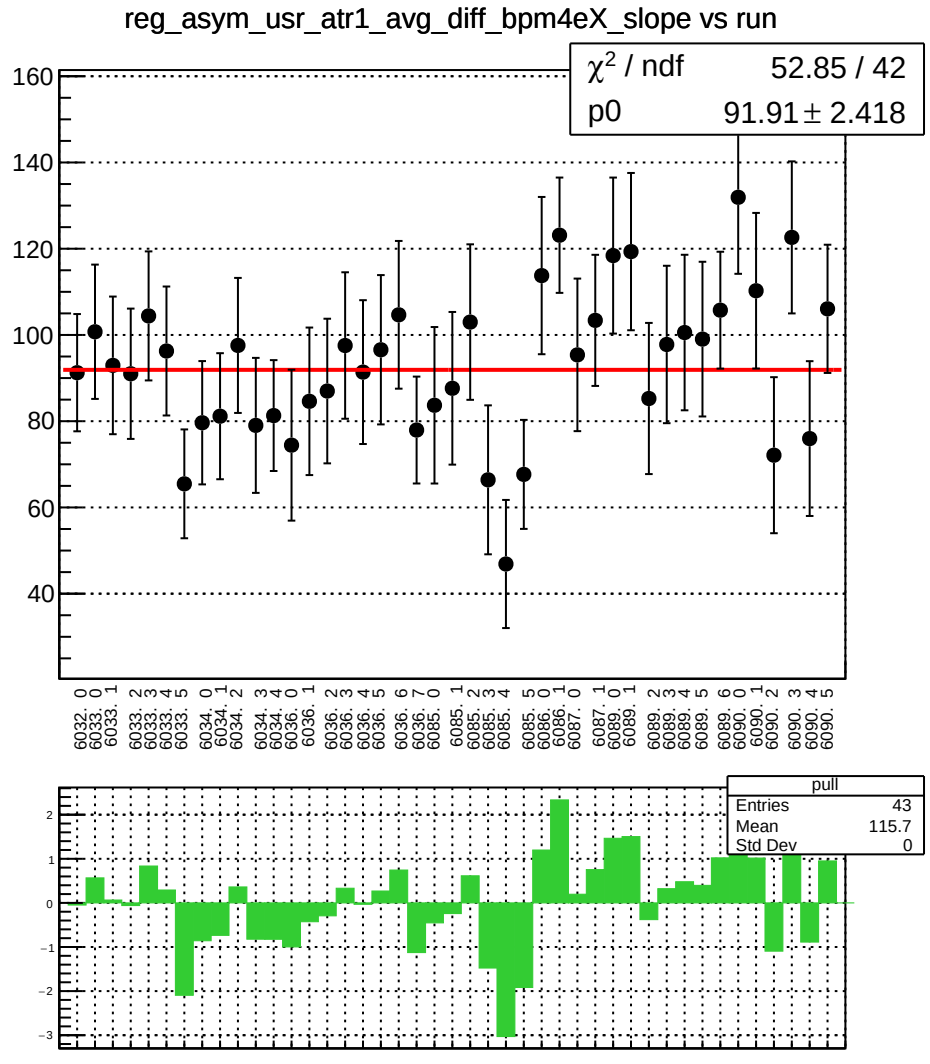

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.63 / 42
p0 76.26 ± 0.2325
pull
Entries 43
Mean 29.08
Std Dev 18.26

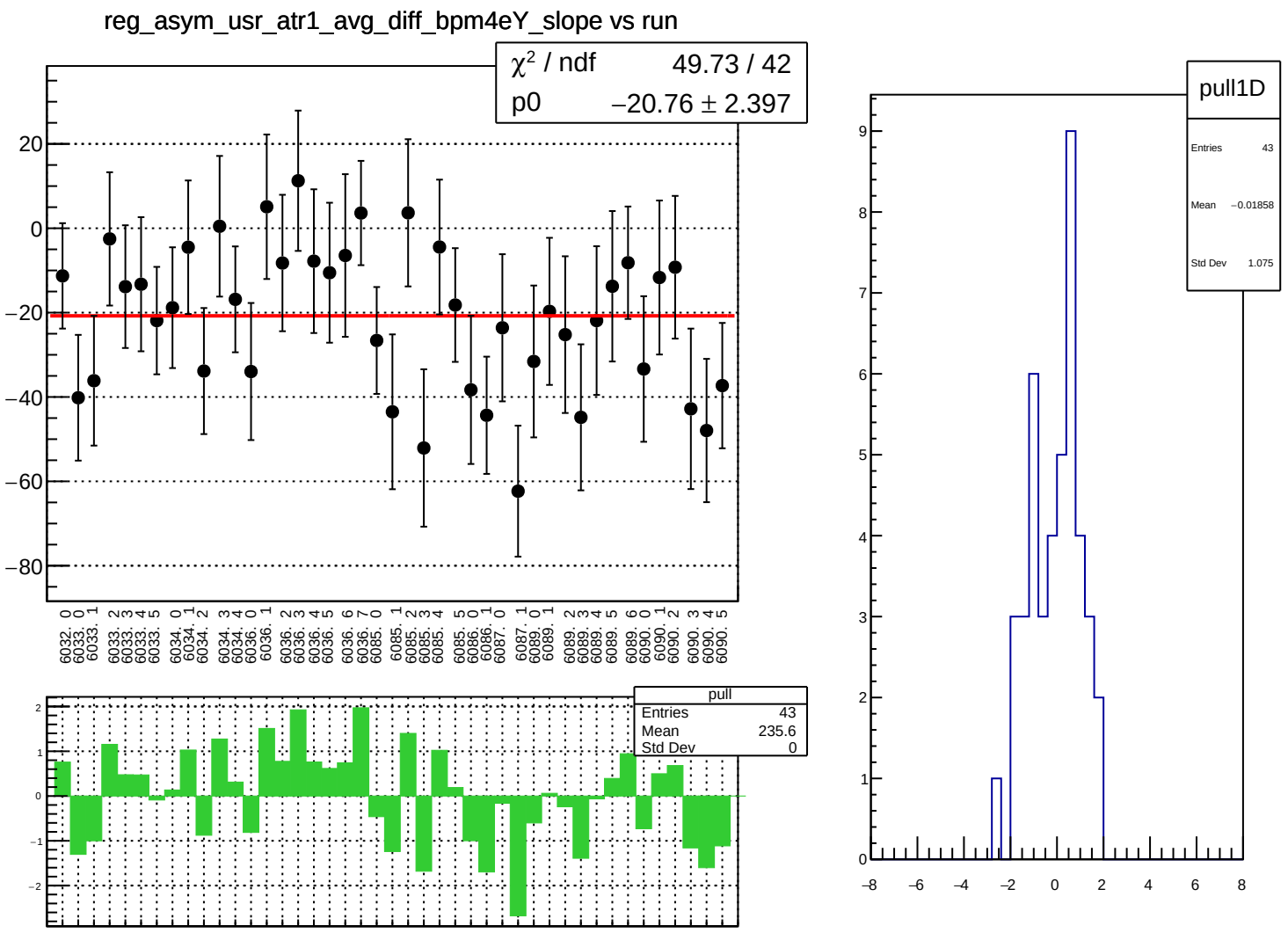

pull1D
Entries 43
Mean 0.02555
Std Dev 0.5624

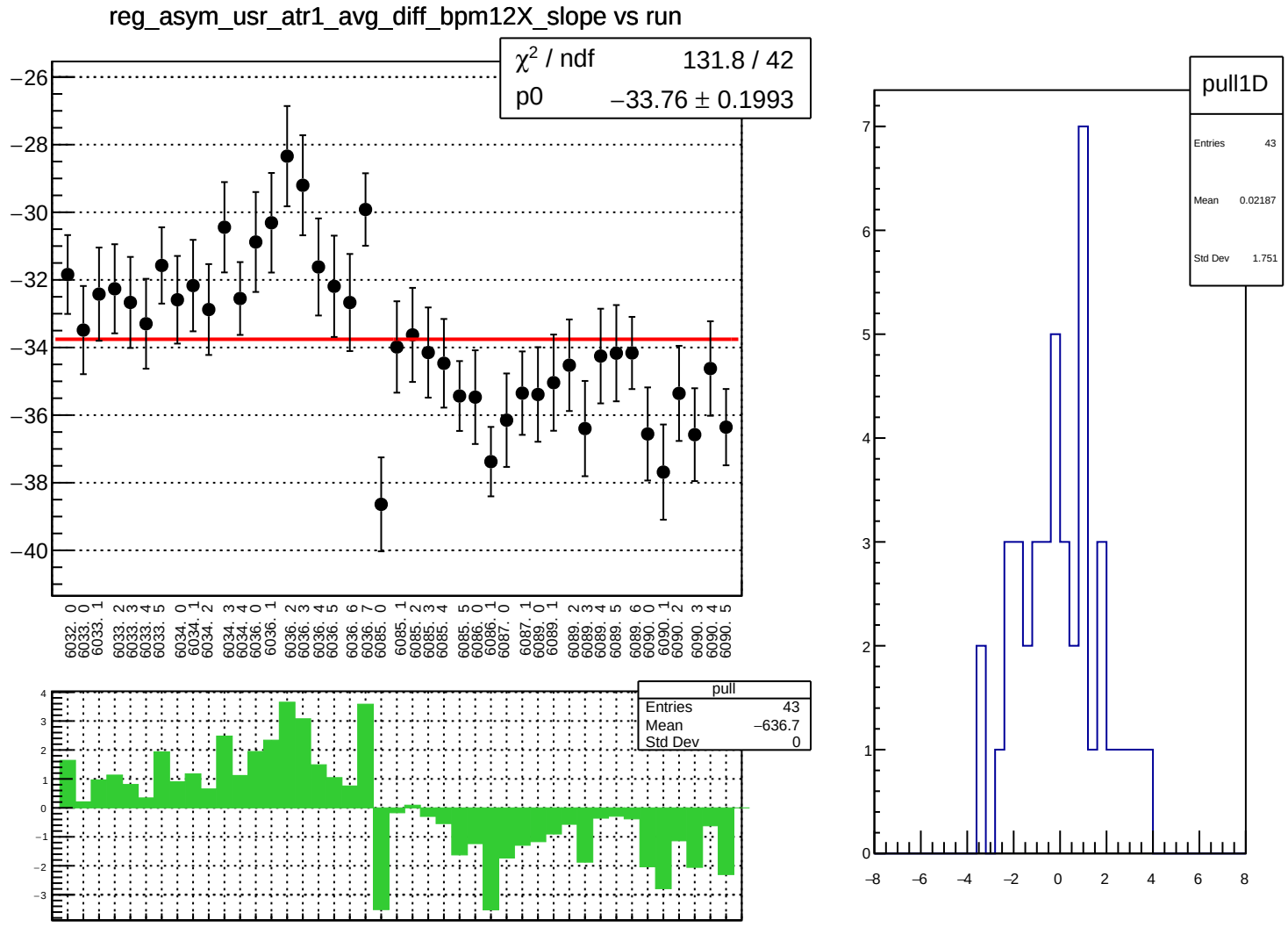

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 46.8 / 42
p0 −77.37 ± 2.182
−20
−40
−60
−80
−100
−120
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −7.911
Std Dev 12.72
3
2
1
0
−1

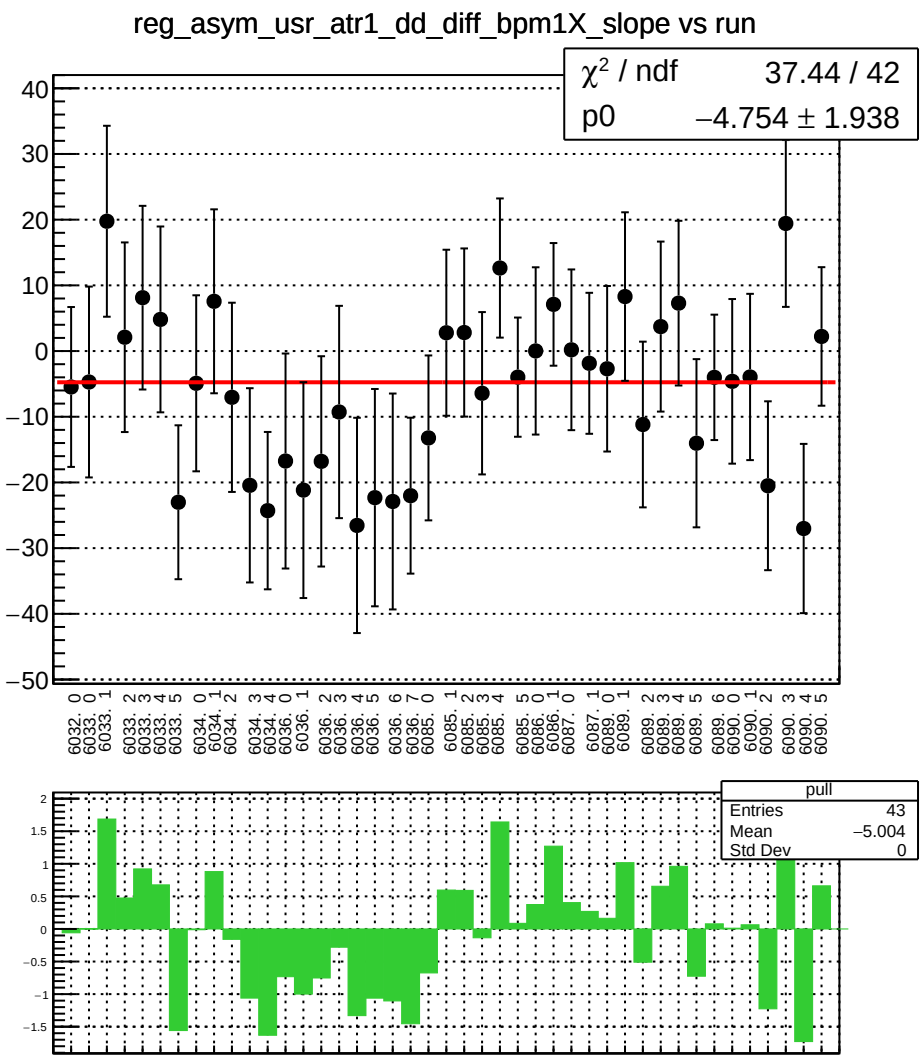

pull1D
Entries 43
Mean −0.04047
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

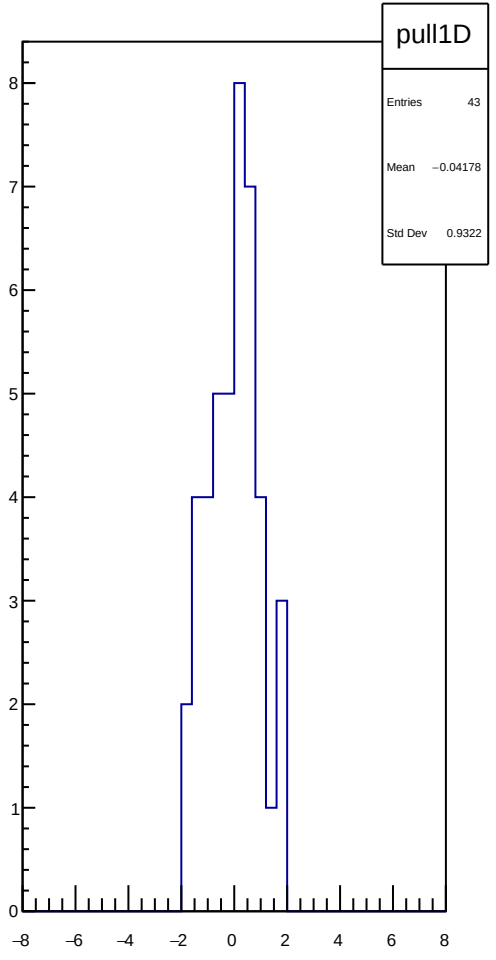

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.35 / 42
p0 20.58 ± 2.217
80
60
40
20
0
−20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 130.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03649
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

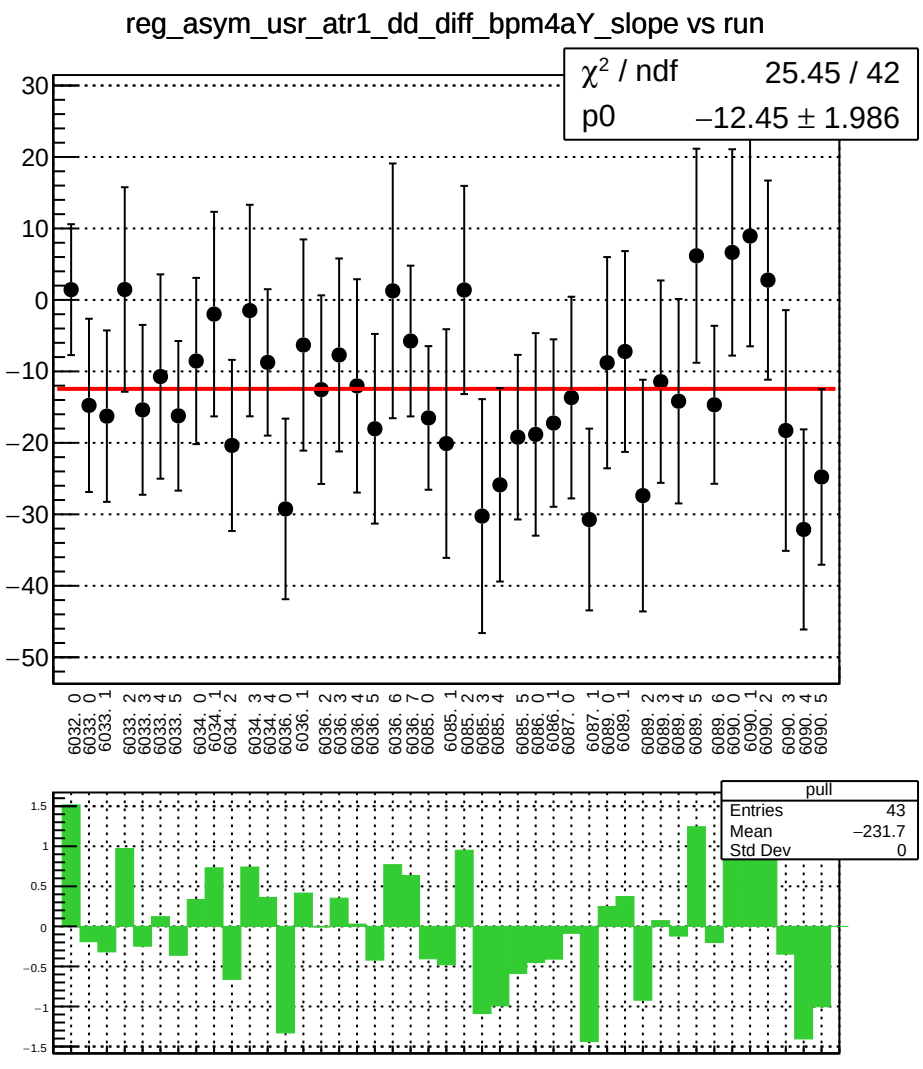

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.85 / 42
p0 91.91 ± 2.418
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 115.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.04466
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

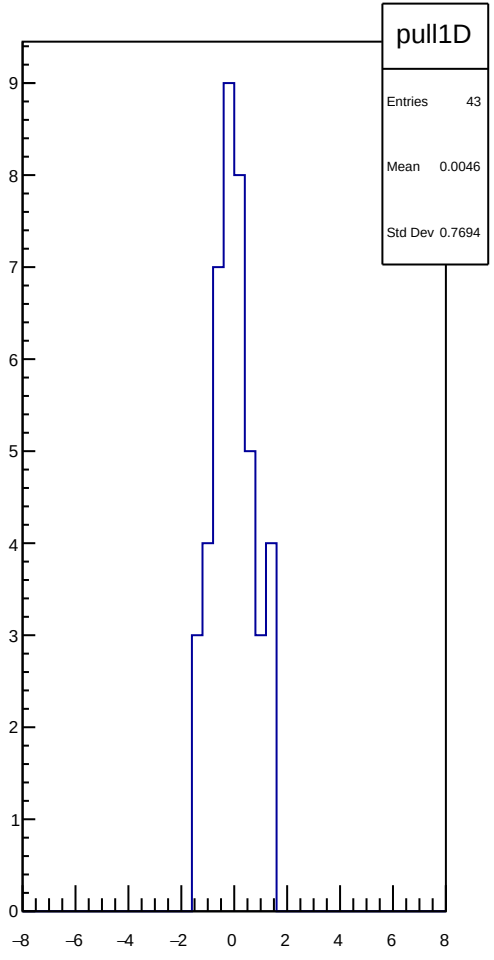

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.73 / 42
p0 −20.76 ± 2.397
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 235.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01858
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

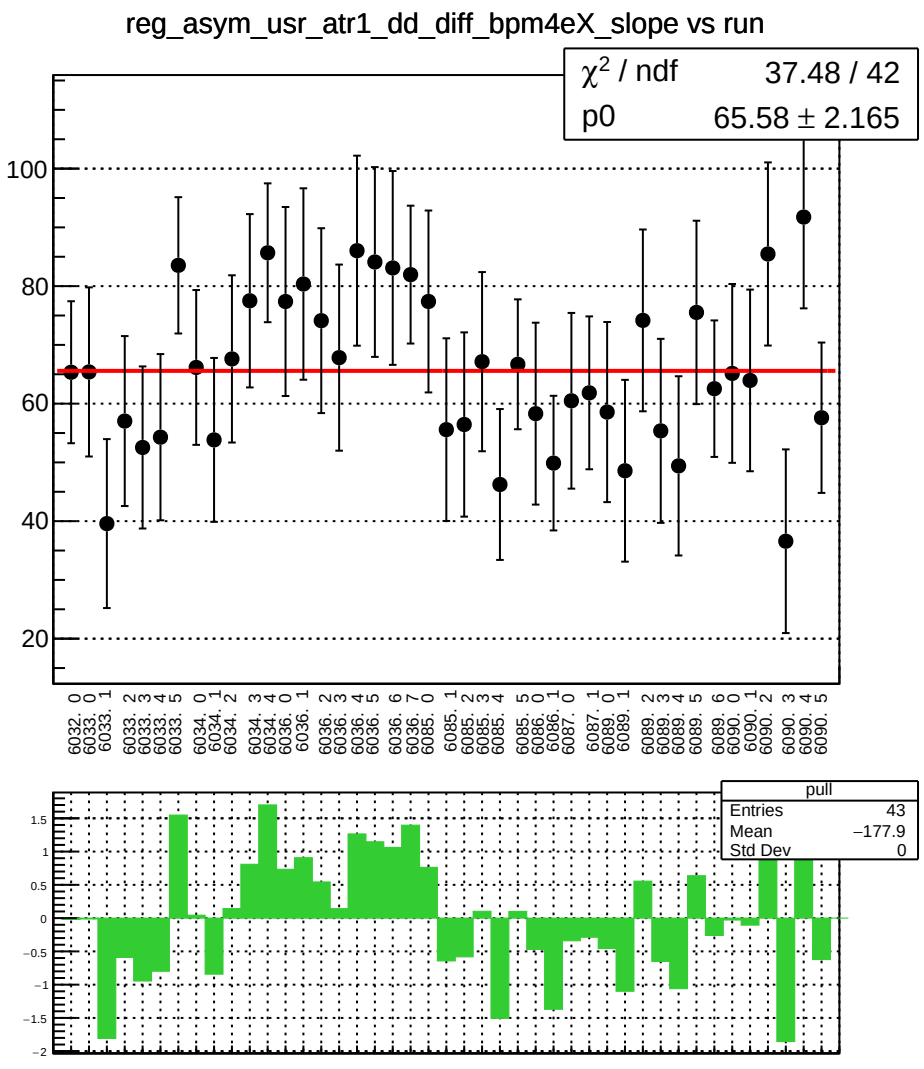

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 131.8 / 42
p0 −33.76 ± 0.1993
pull
Entries 43
Mean −636.7
Std Dev 0
pull1D
Entries 43
Mean 0.02187
Std Dev 1.751

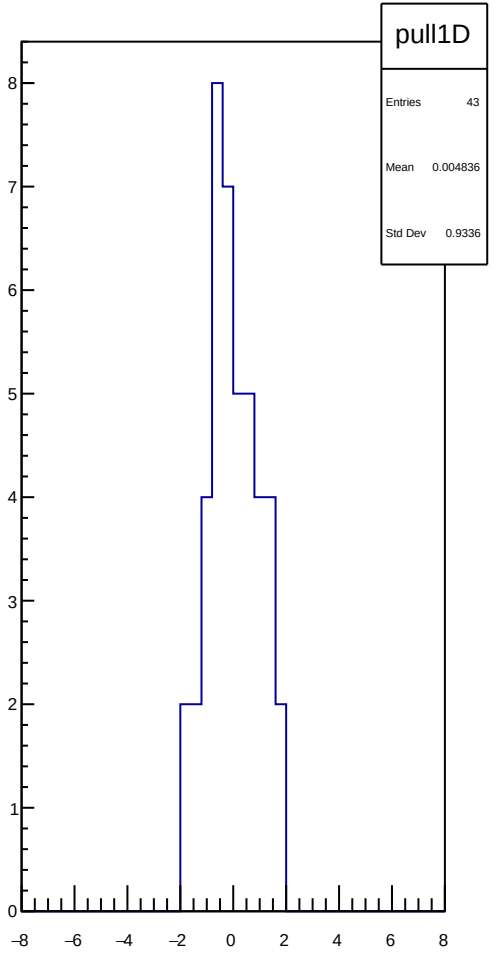

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 37.44 / 42
p0 −4.754 ± 1.938
pull
Entries 43
Mean −5.004
Std Dev 0

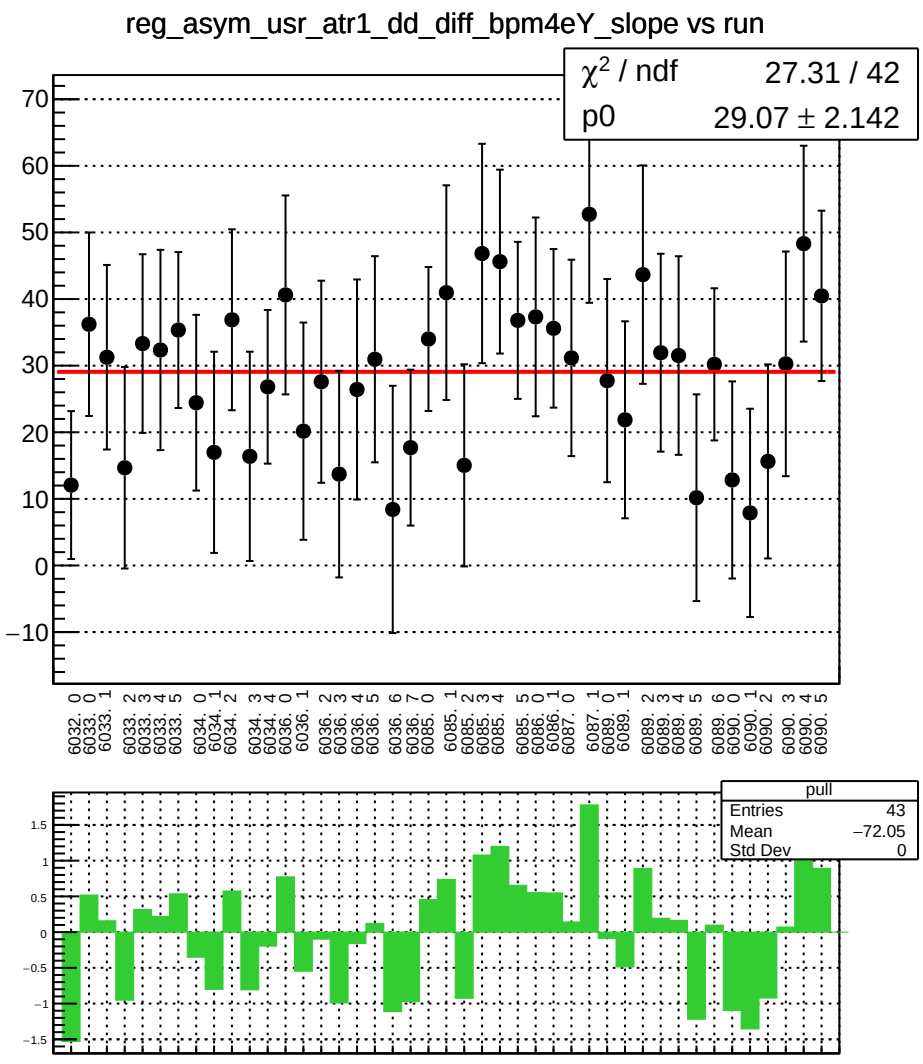

pull1D
Entries 43
Mean −0.04178
Std Dev 0.9322

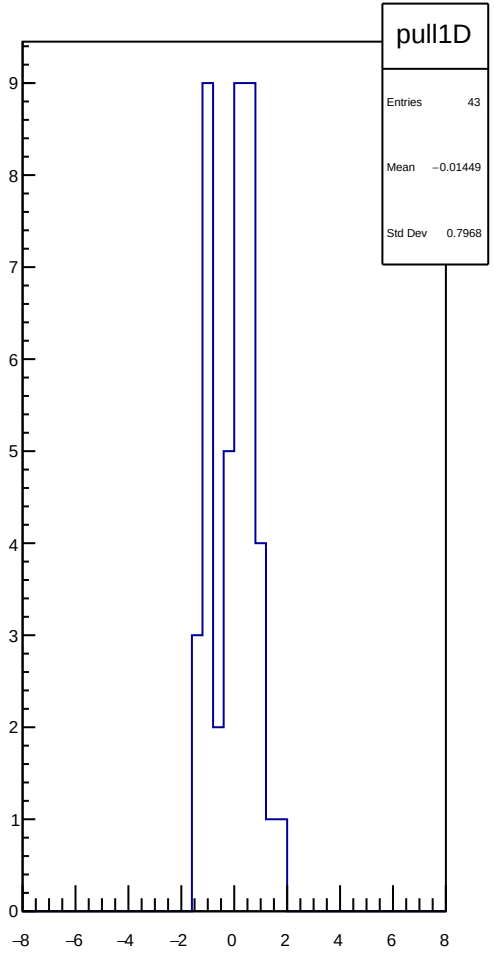

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.45 / 42
p0 −12.45 ± 1.986
pull
Entries 43
Mean −231.7
Std Dev 0

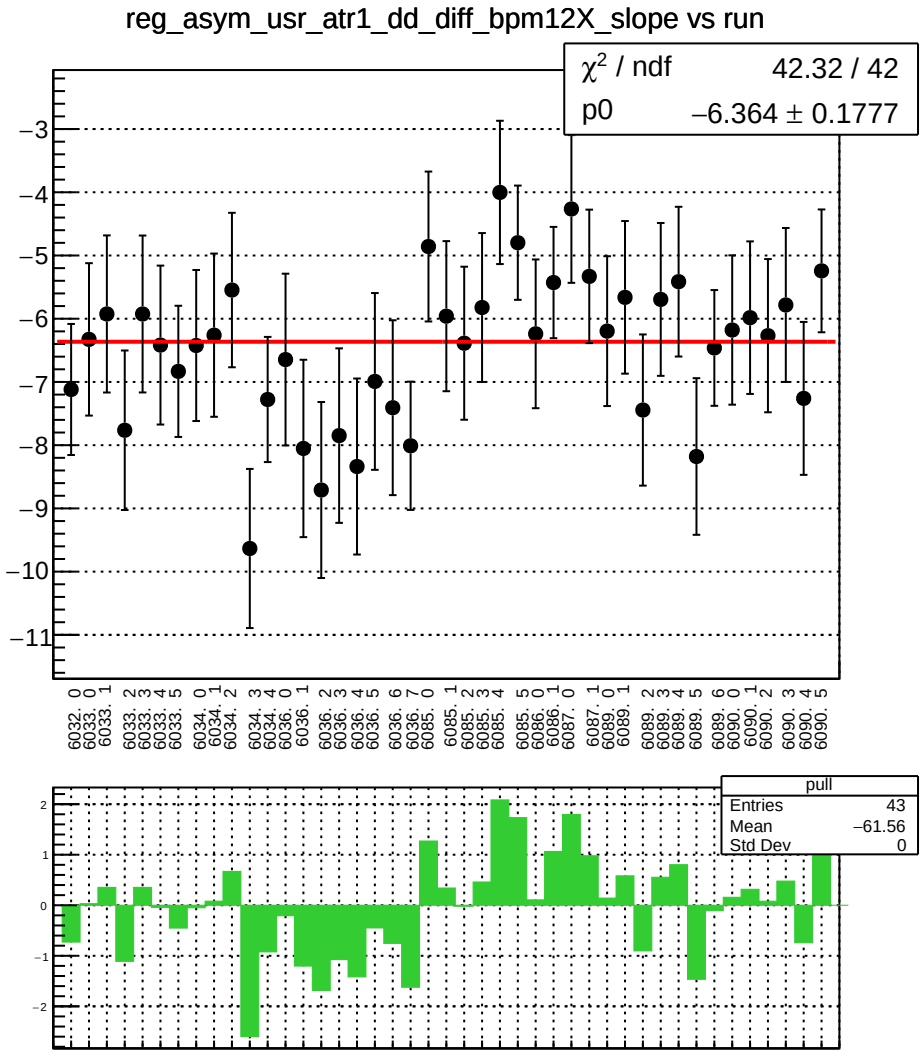

pull1D
Entries 43
Mean 0.0046
Std Dev 0.7694

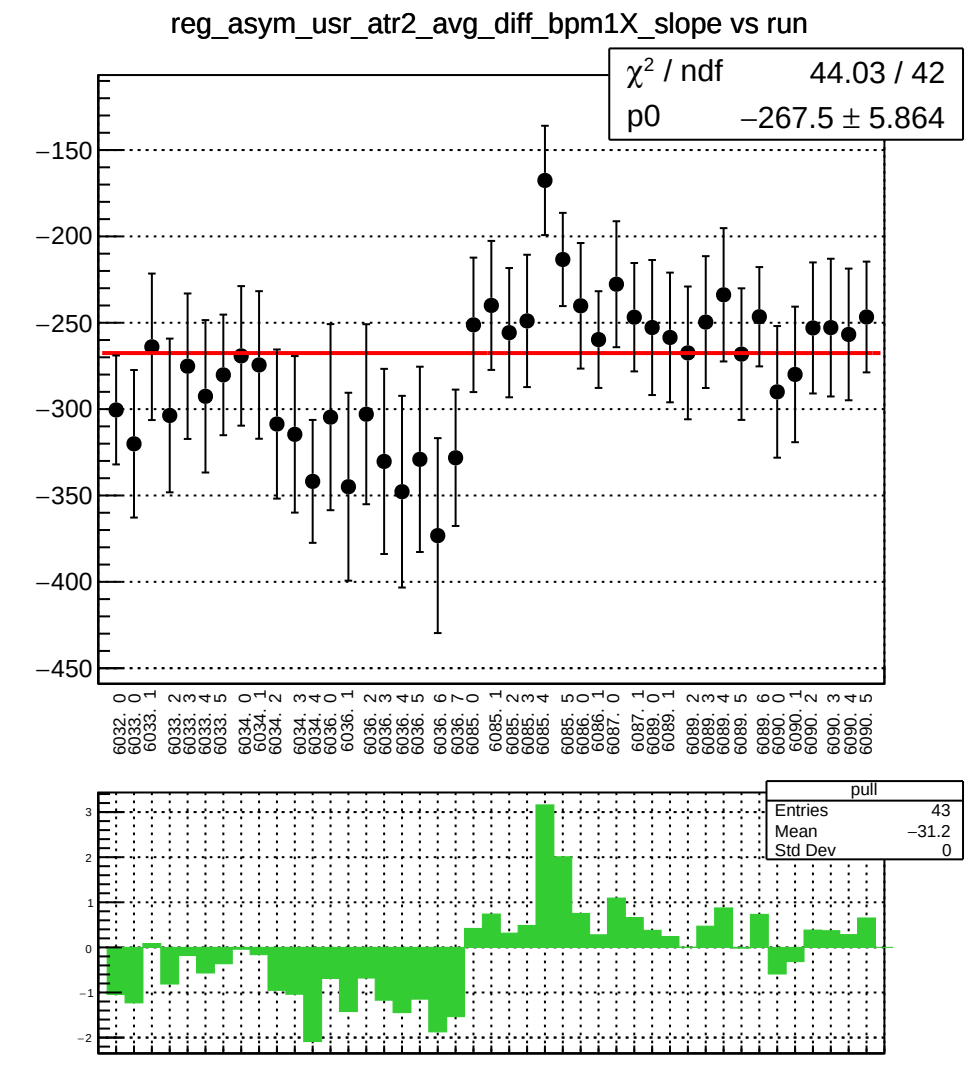

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.48 / 42
p0 65.58 ± 2.165
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −177.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

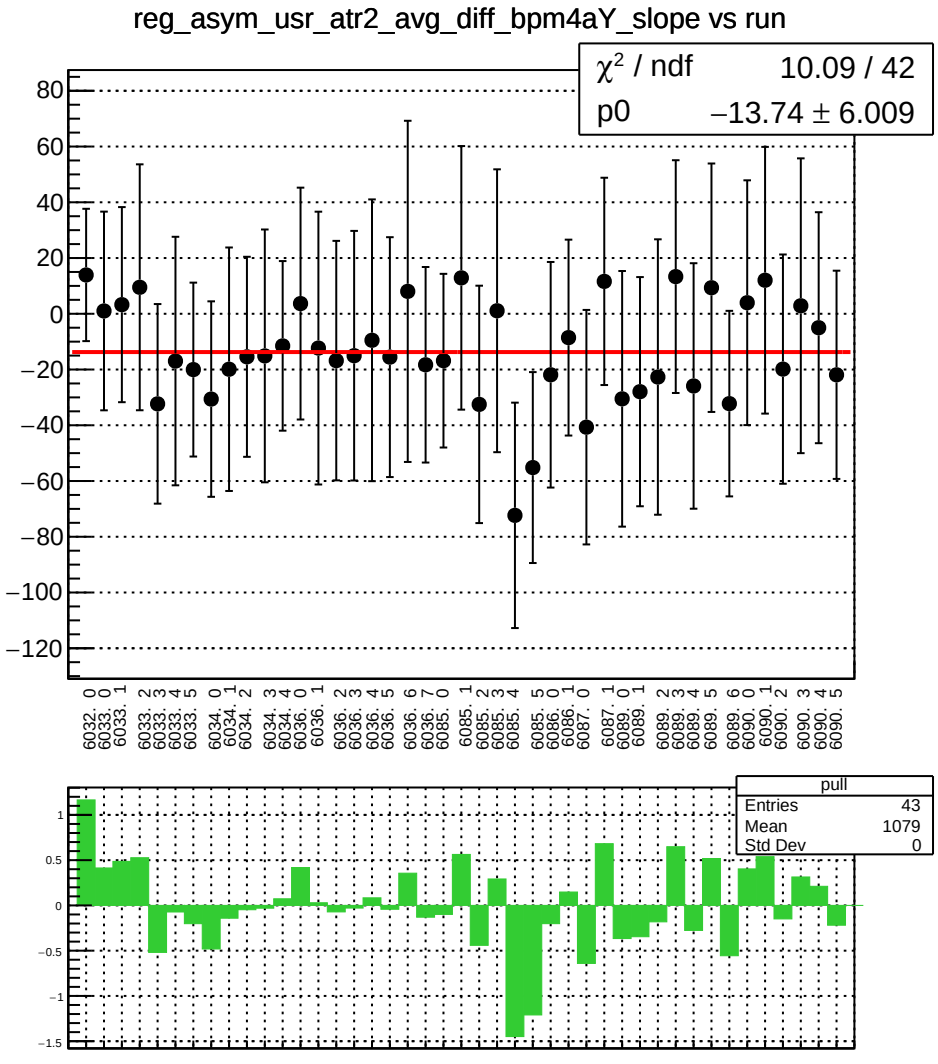

pull1D
Entries 43
Mean 0.004836
Std Dev 0.9336
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

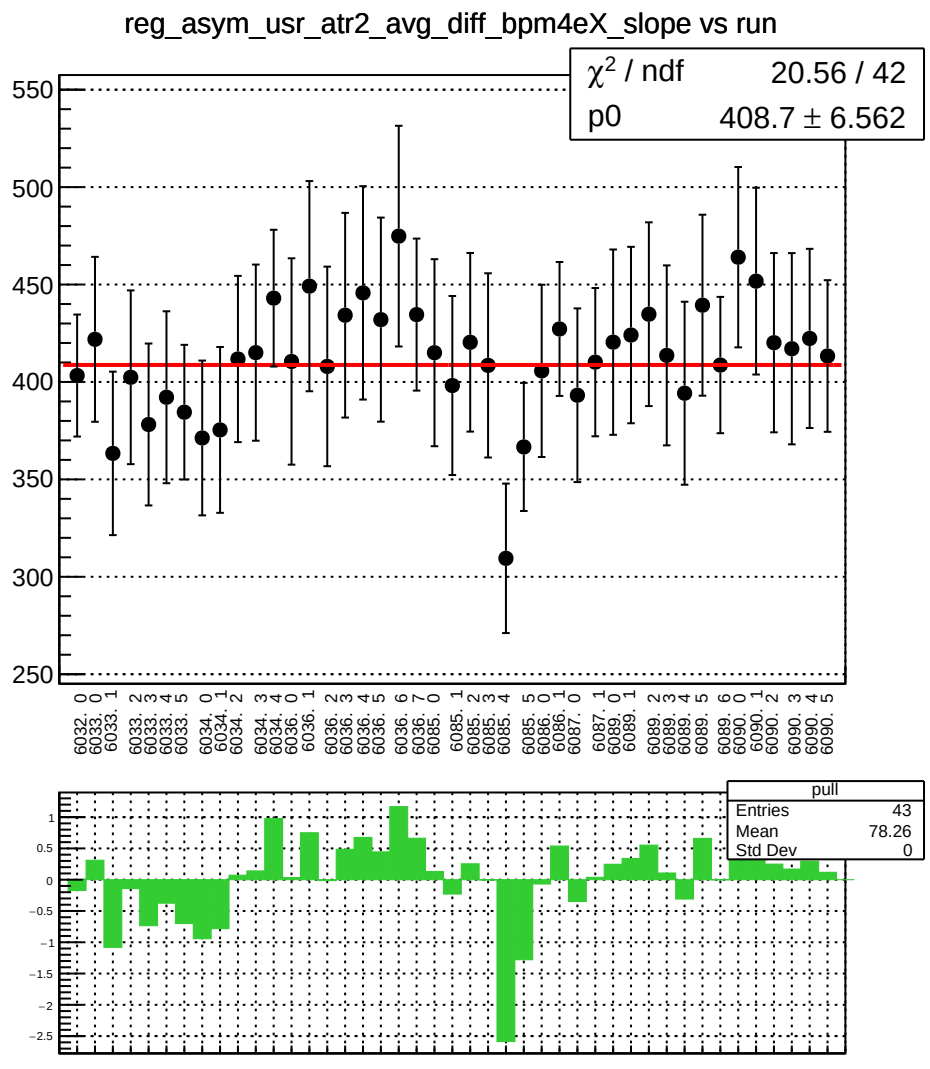

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.31 / 42
p0 29.07 ± 2.142
pull
Entries 43
Mean −72.05
Std Dev 0

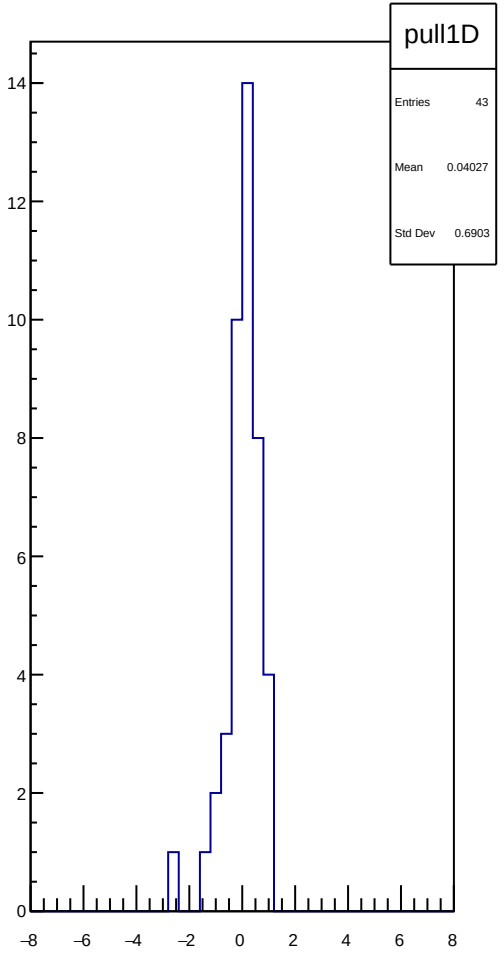

pull1D
Entries 43
Mean −0.01449
Std Dev 0.7968

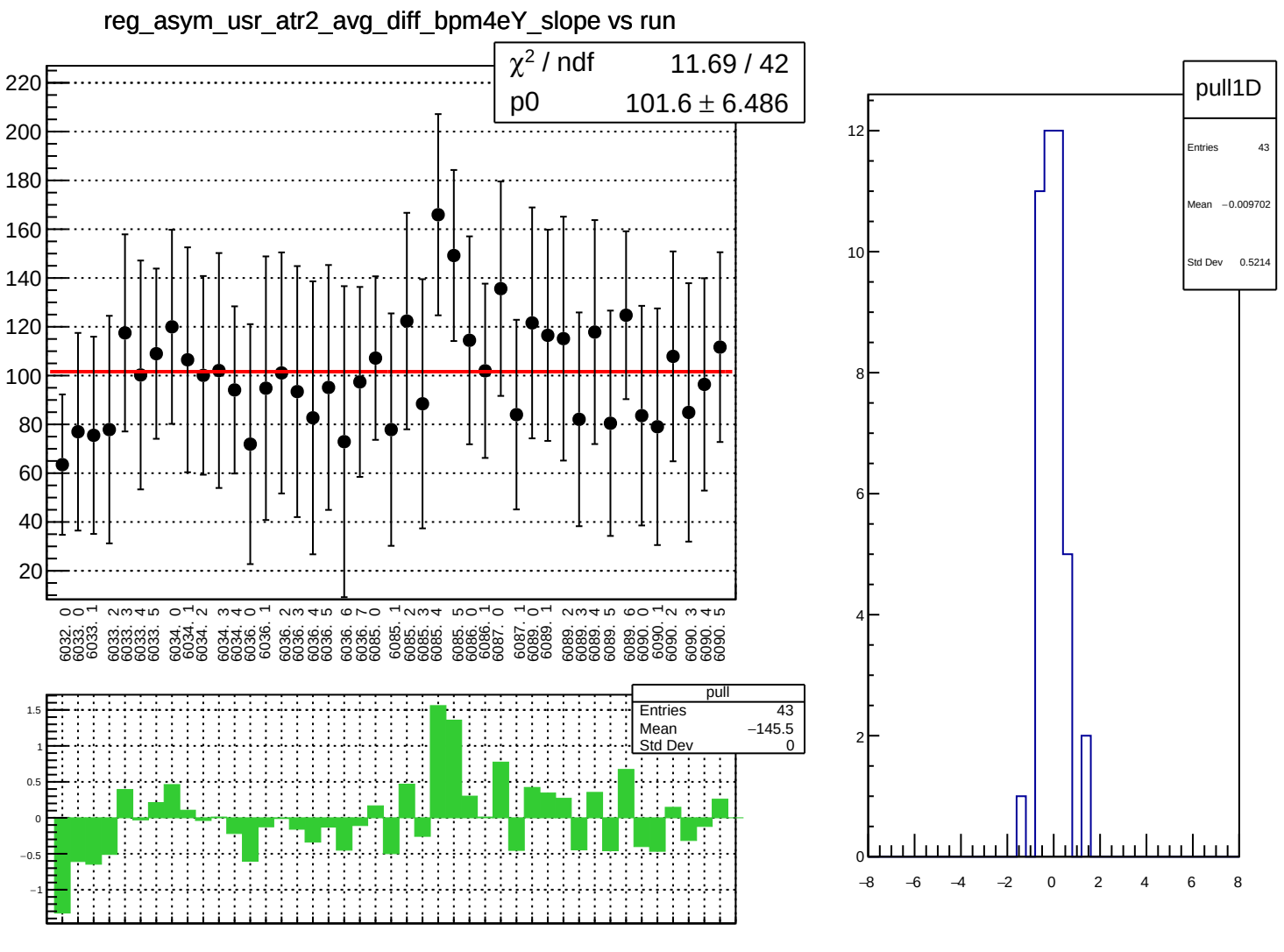

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 42.32 / 42
p0 −6.364 ± 0.1777
pull
Entries 43
Mean −61.56
Std Dev 0
pull1D
Entries 43
Mean −0.04563
Std Dev 0.9911

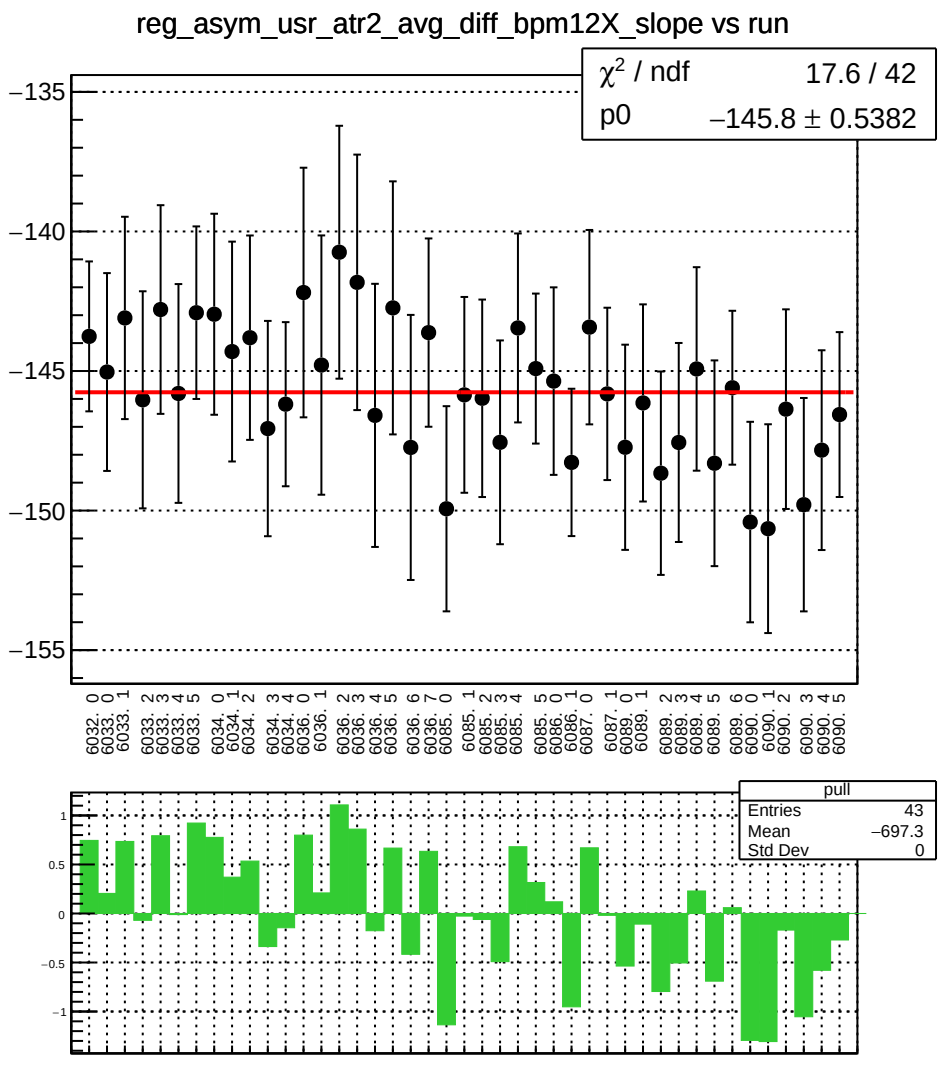

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 44.03 / 42
p0 −267.5 ± 5.864
−150
−200
−250
−300
−350
−400
−450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −31.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1157
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

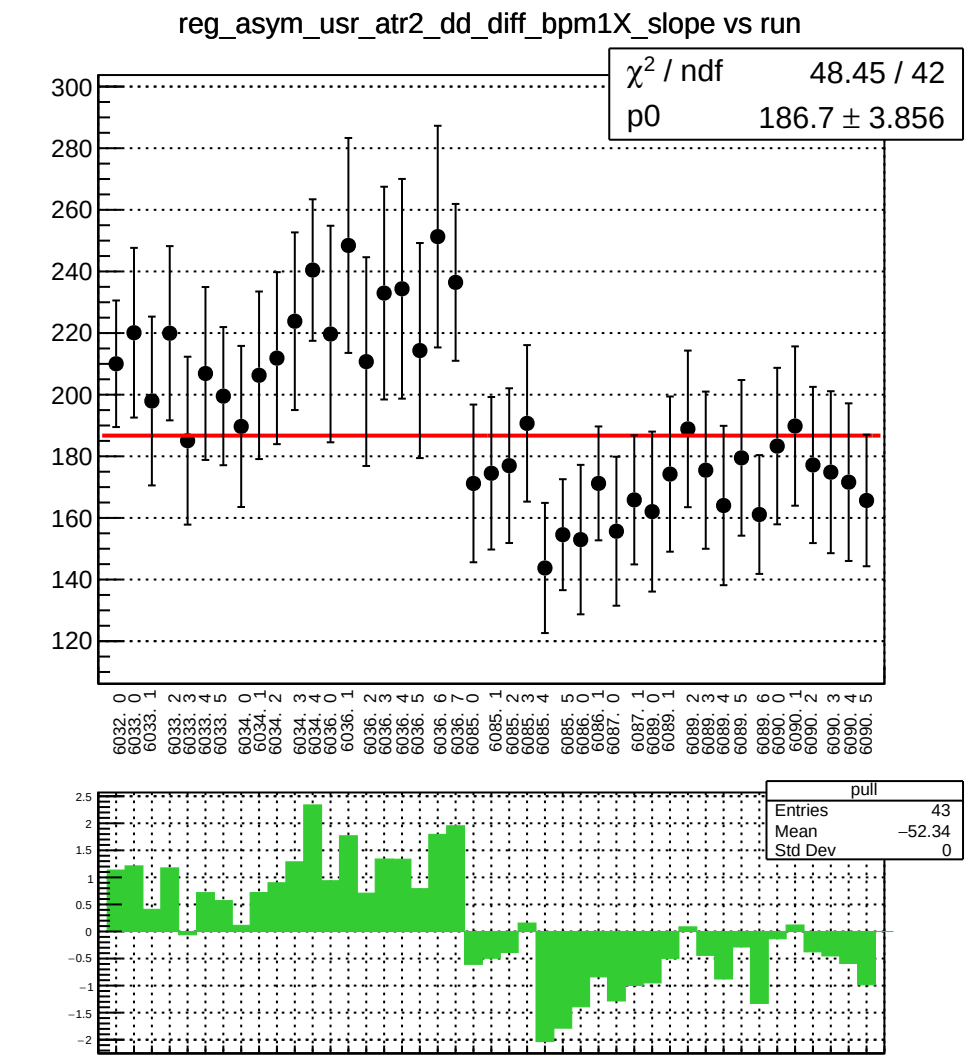

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.09 / 42
p0 −13.74 ± 6.009
pull
Entries 43
Mean 1079
Std Dev 0
pull1D
Entries 43
Mean −0.0006448
Std Dev 0.4843

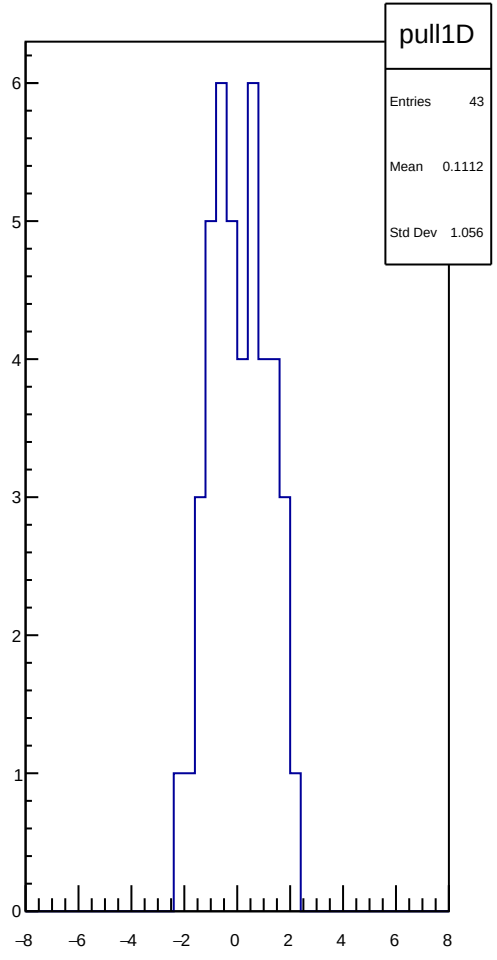

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.56 / 42
p0 408.7 ± 6.562
pull
Entries 43
Mean 78.26
Std Dev 0

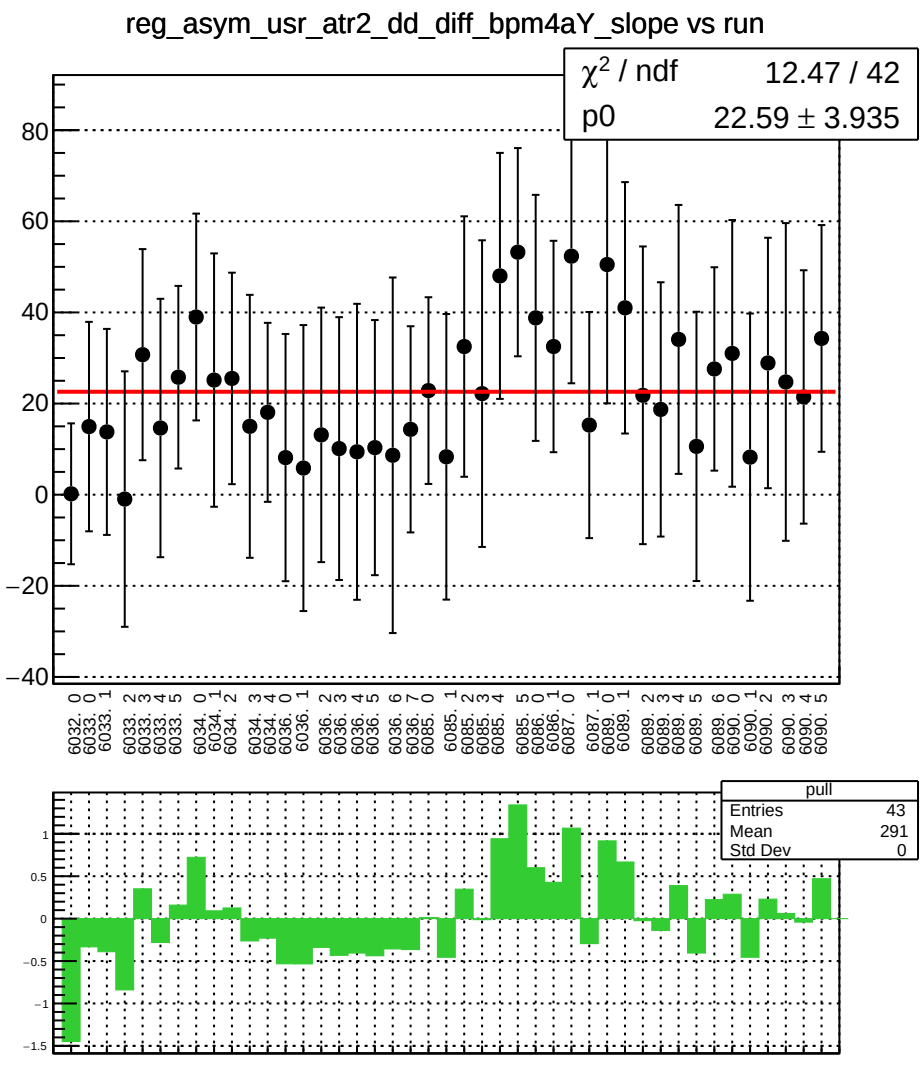

pull1D
Entries 43
Mean 0.04027
Std Dev 0.6903

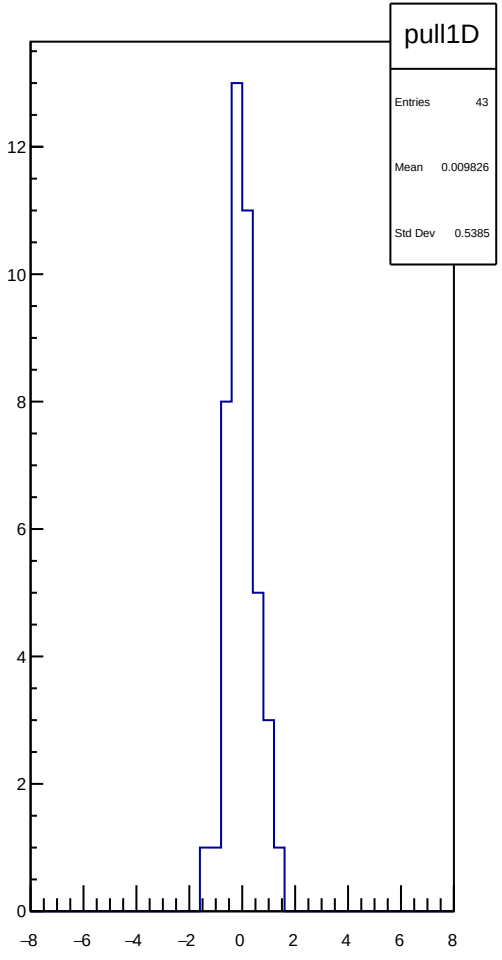

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.69 / 42
p0 101.6 ± 6.486
pull
Entries 43
Mean −145.5
Std Dev 0
pull1D
Entries 43
Mean −0.009702
Std Dev 0.5214

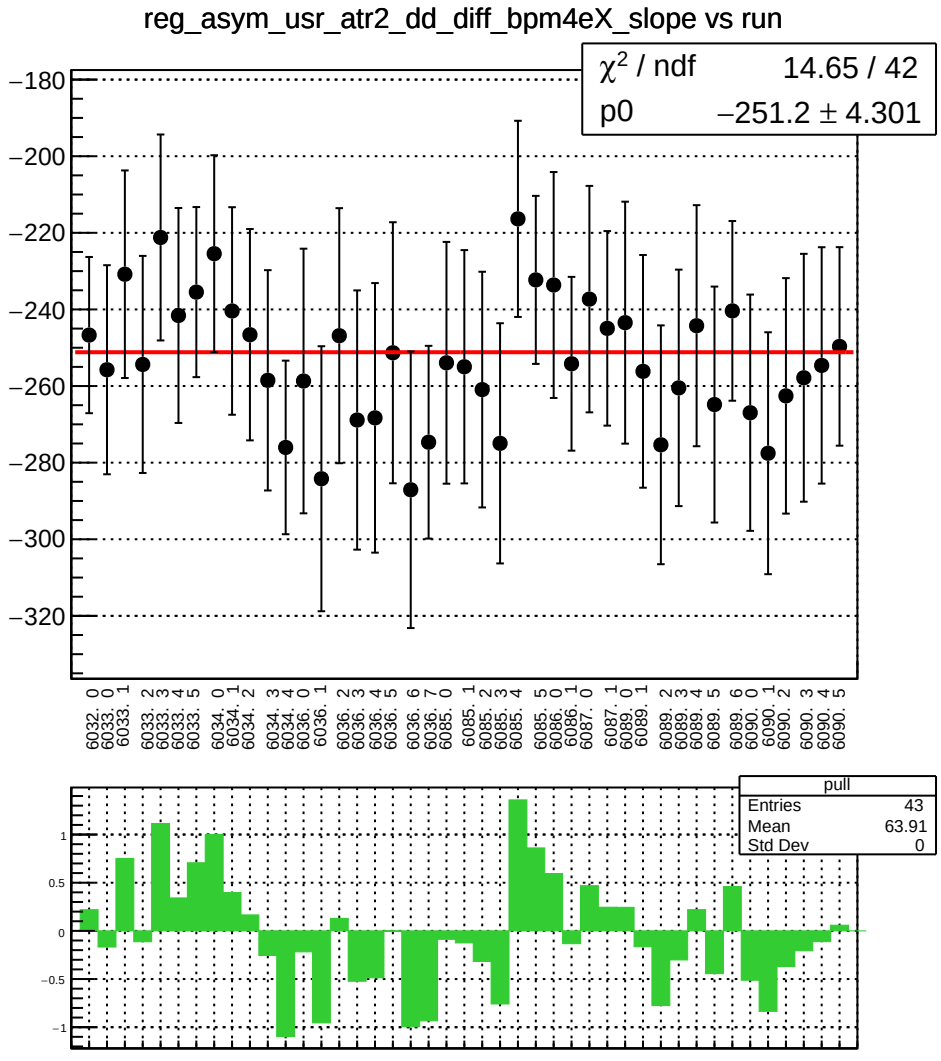

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.6 / 42
p0 −145.8 ± 0.5382
−135
−140
−145
−150
−155
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −697.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.006699
Std Dev 0.6397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

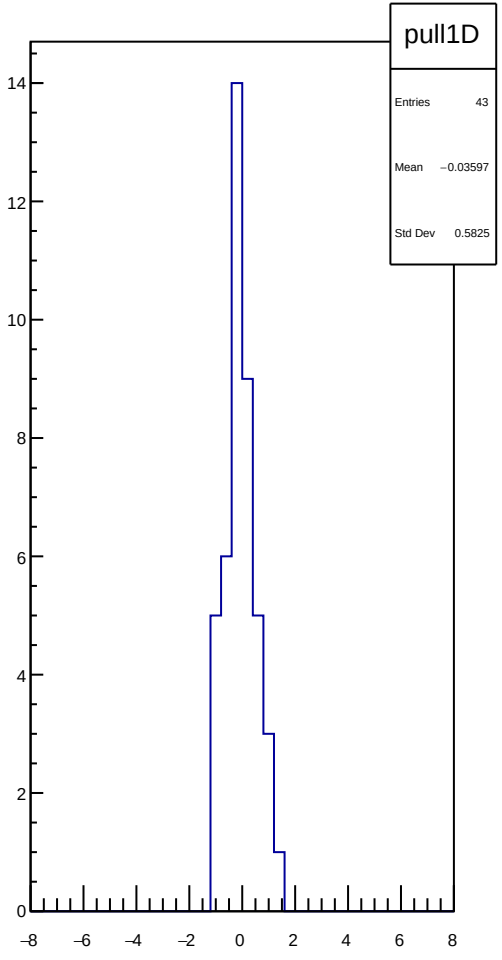

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 48.45 / 42
p0 186.7 ± 3.856
pull
Entries 43
Mean −52.34
Std Dev 0

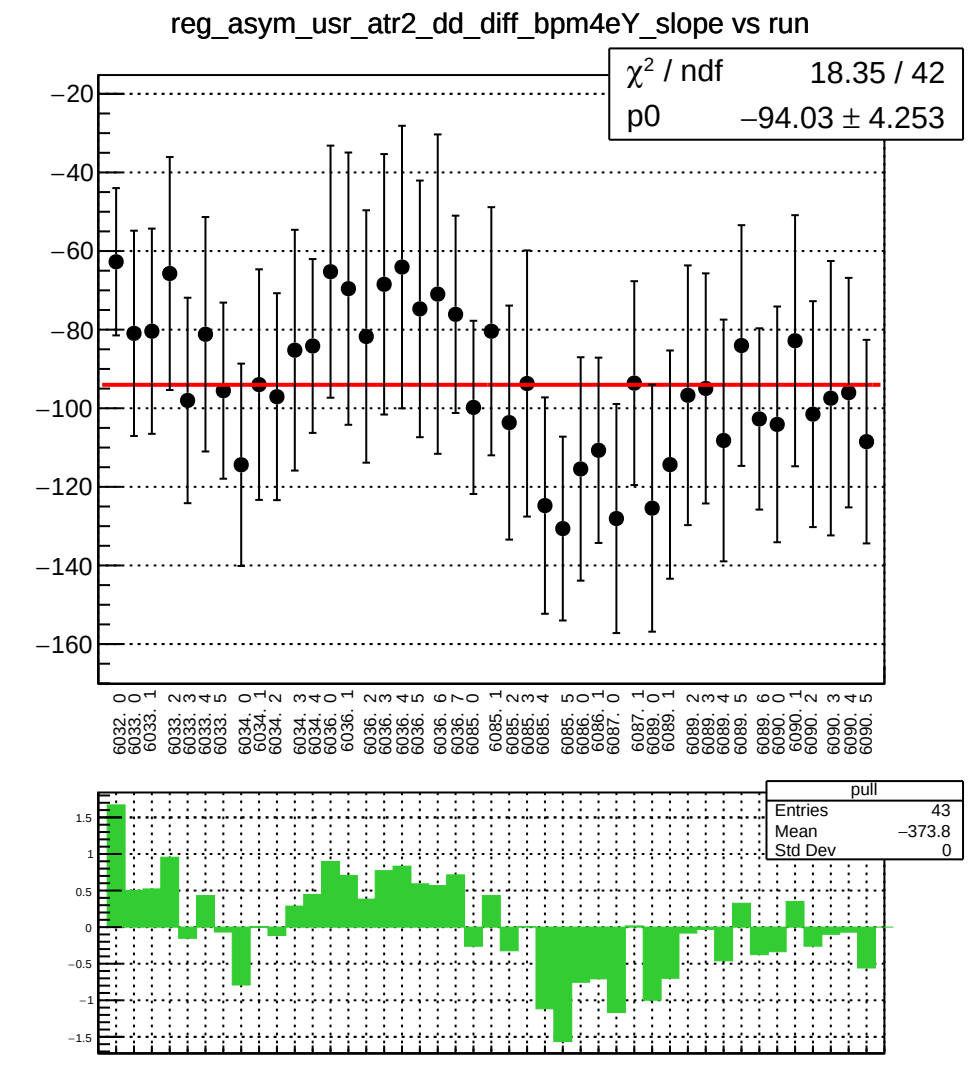

pull1D
Entries 43
Mean 0.1112
Std Dev 1.056

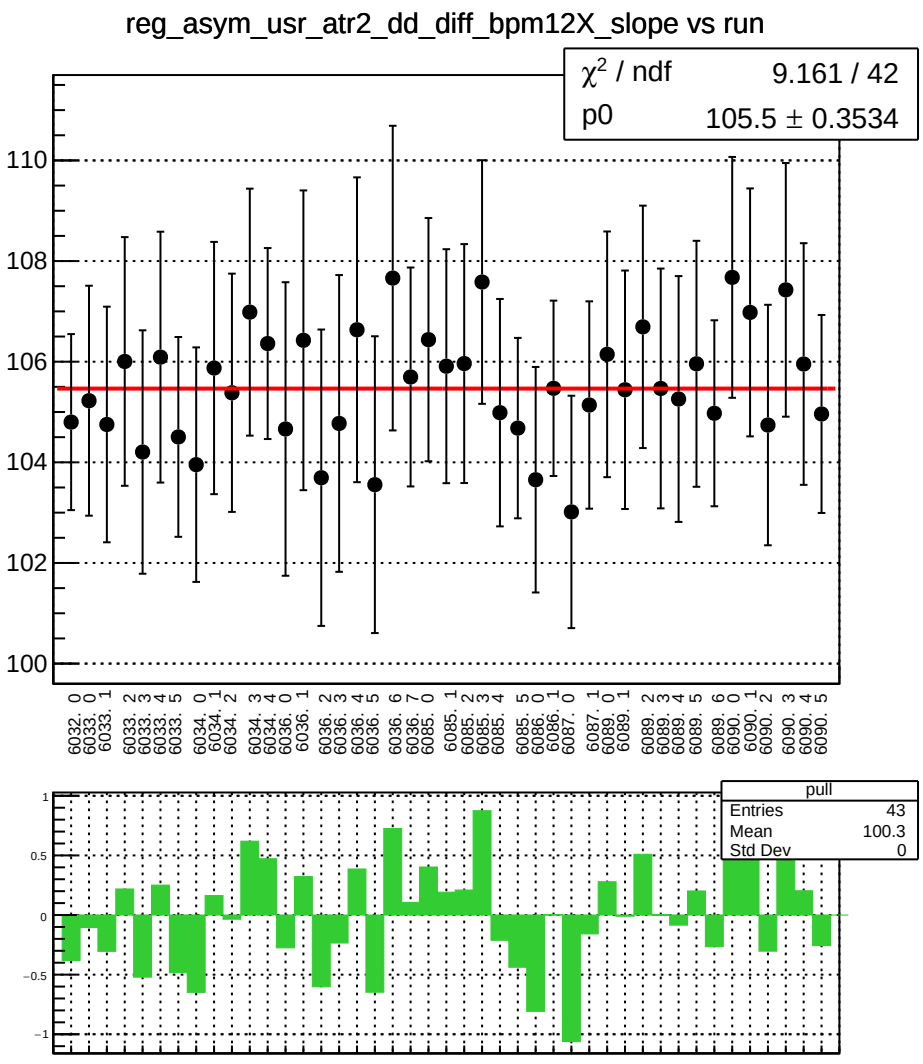

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.47 / 42
p0 22.59 ± 3.935
pull
Entries 43
Mean 291
Std Dev 0

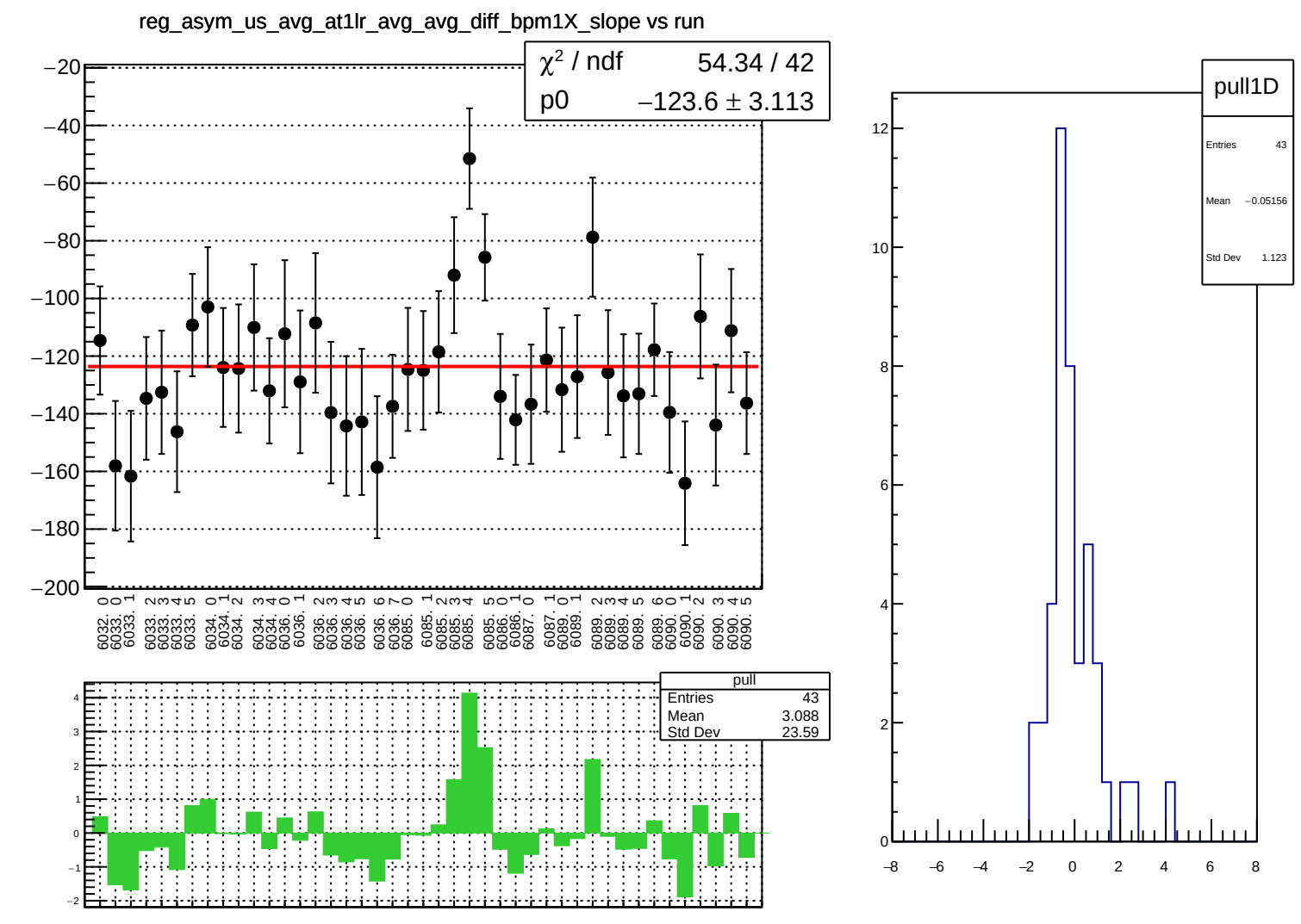

pull1D
Entries 43
Mean 0.009826
Std Dev 0.5385

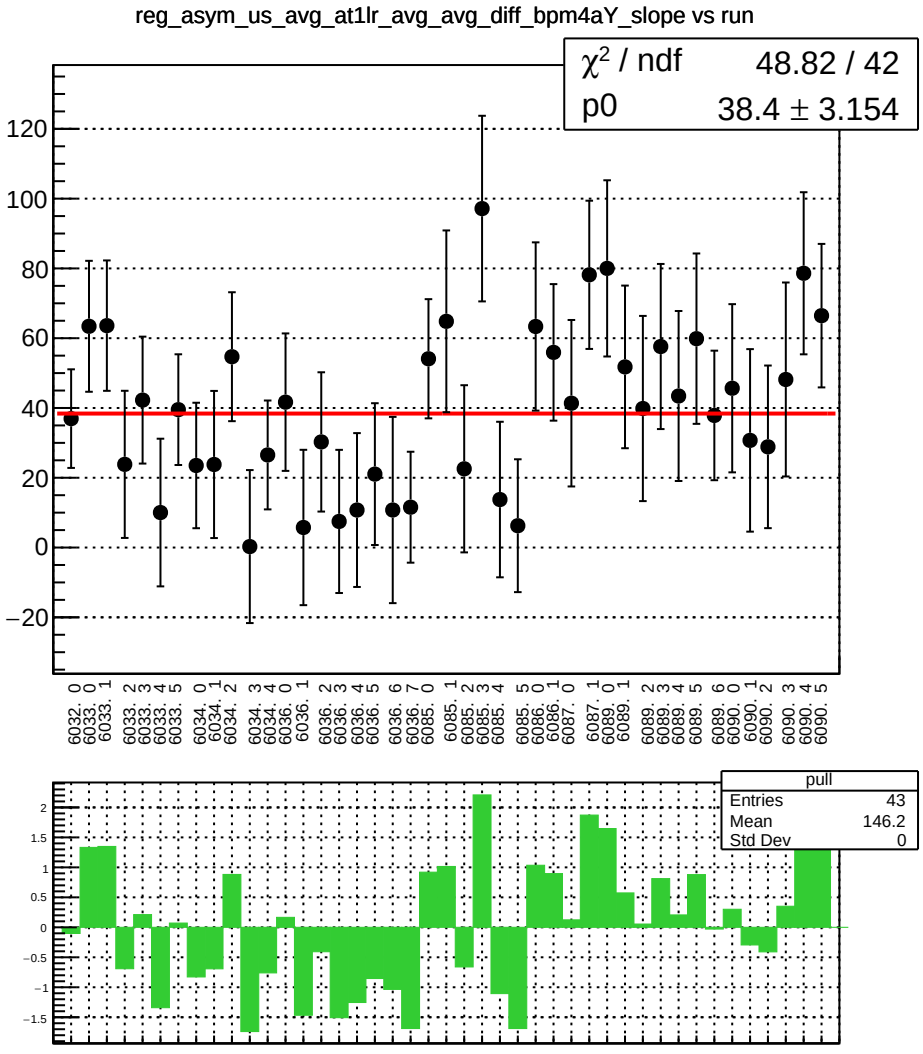

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.65 / 42
p0 −251.2 ± 4.301
−180
−200
−220
−240
−260
−280
−300
−320
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6036. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 63.91
Std Dev 0
1
0.5
0
−0.5
−1

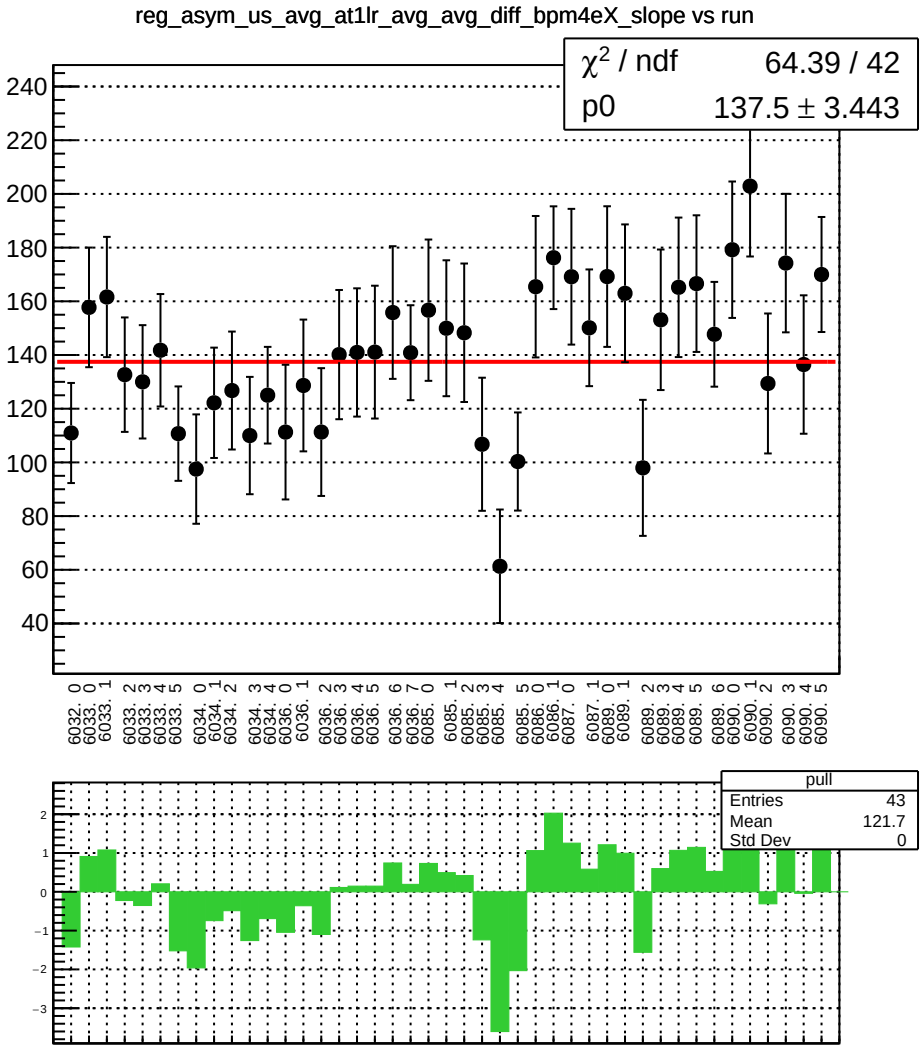

pull1D
Entries 43
Mean −0.03597
Std Dev 0.5825
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

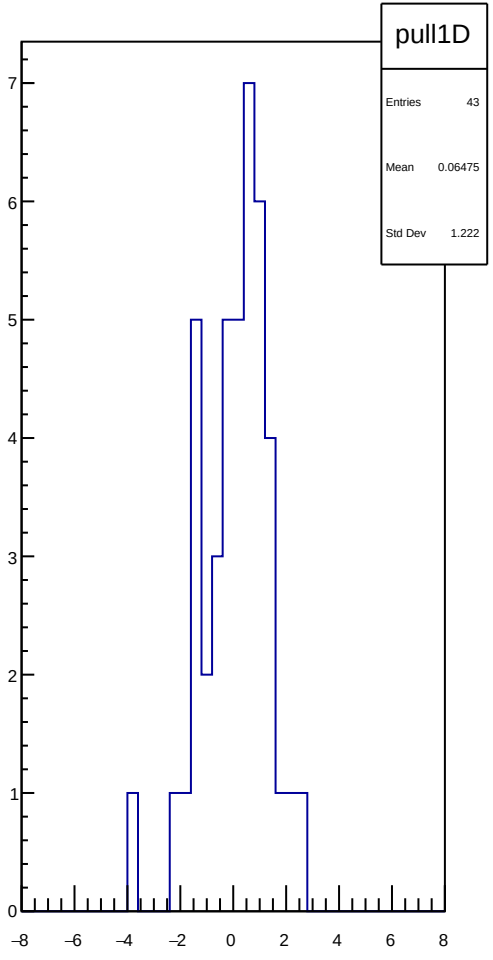

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.35 / 42
p0 −94.03 ± 4.253
−20
−40
−60
−80
−100
−120
−140
−160
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −373.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01003
Std Dev 0.6532
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

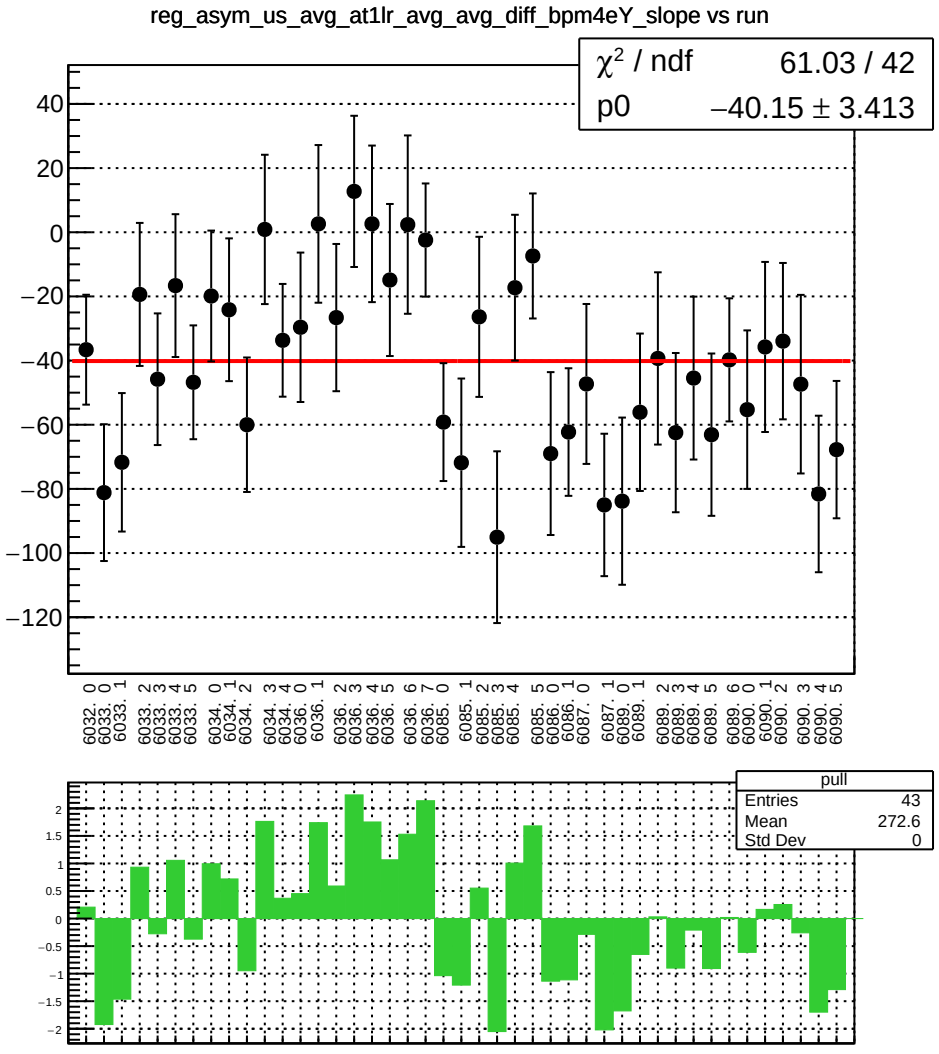

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.161 / 42
p0 105.5 ± 0.3534
110
108
106
104
102
100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 100.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01451
Std Dev 0.4613
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

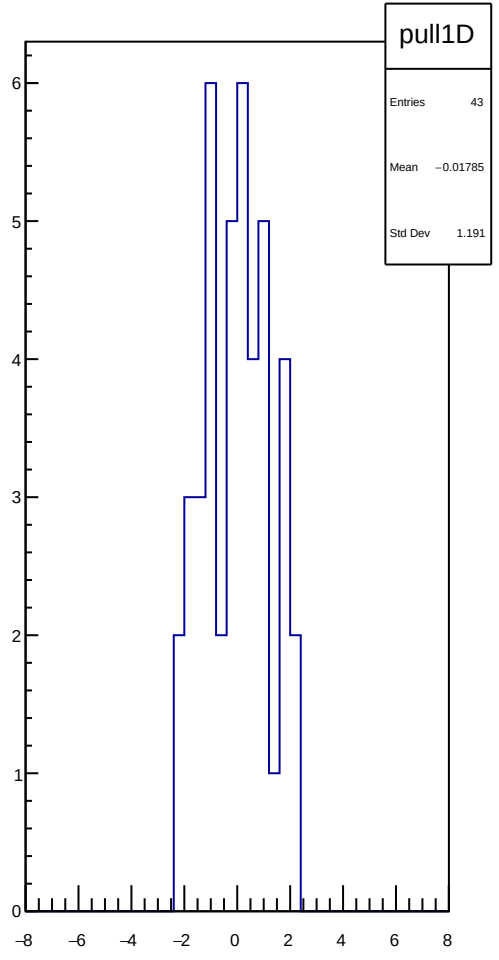

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 54.34 / 42
p0 −123.6 ± 3.113
pull
Entries 43
Mean 3.088
Std Dev 23.59
pull1D
Entries 43
Mean −0.05156
Std Dev 1.123

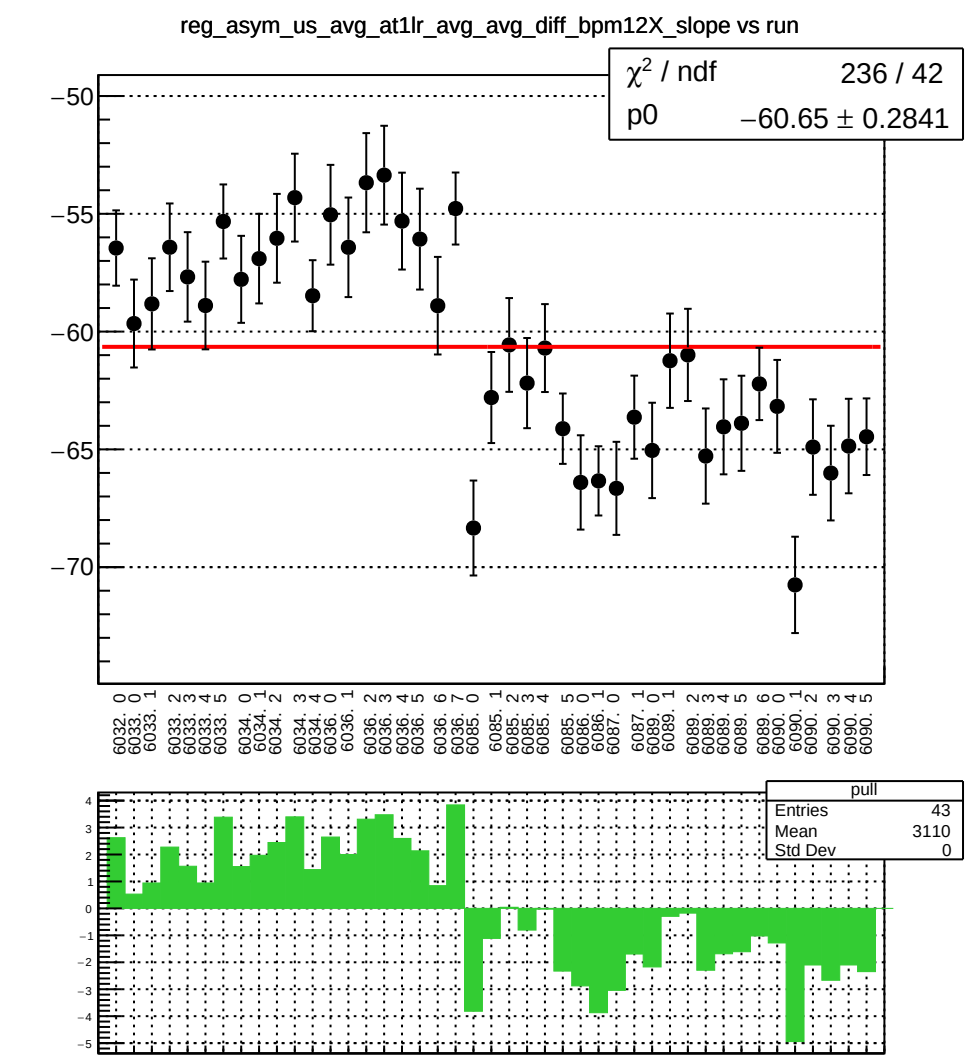

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.82 / 42
p0 38.4 ± 3.154
pull
Entries 43
Mean 146.2
Std Dev 0
pull1D
Entries 43
Mean 0.03377
Std Dev 1.065

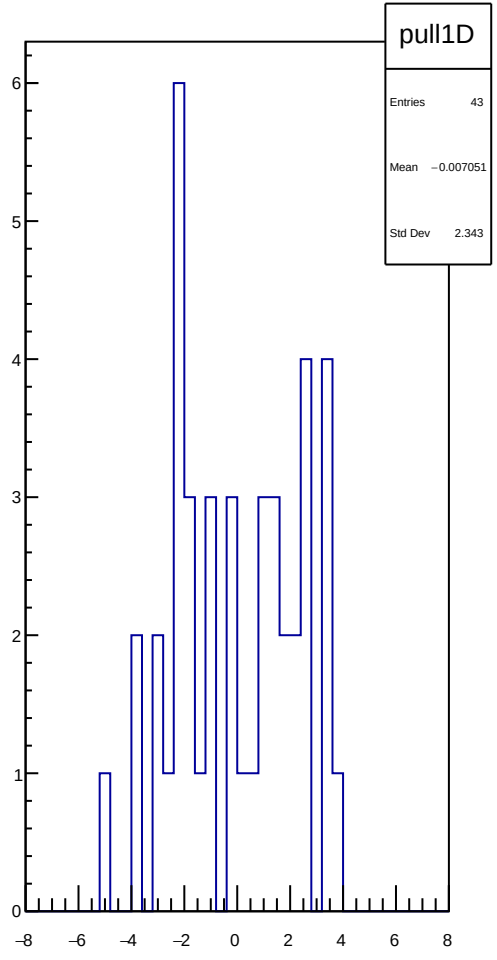

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.39 / 42
p0 137.5 ± 3.443
240
220
200
180
160
140
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 121.7
Std Dev 0
2
1
0
−1
−2
−3

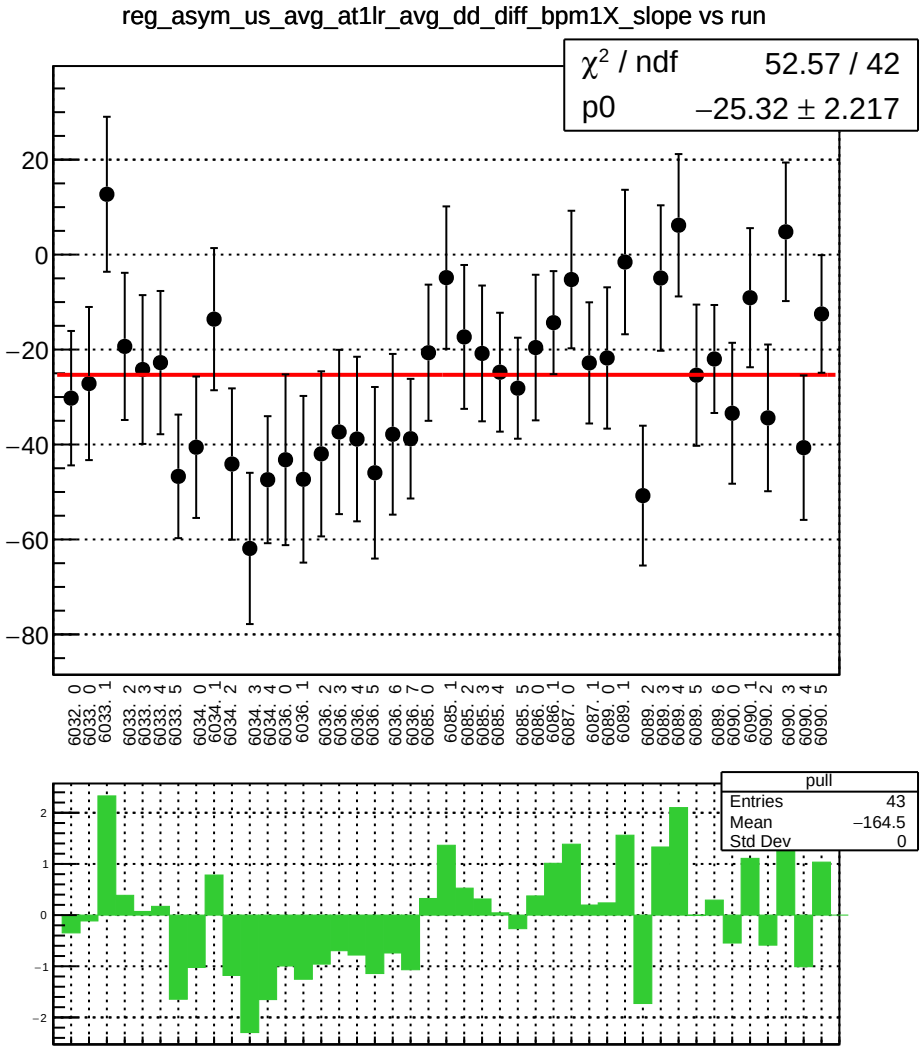

pull1D
Entries 43
Mean 0.06475
Std Dev 1.222
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

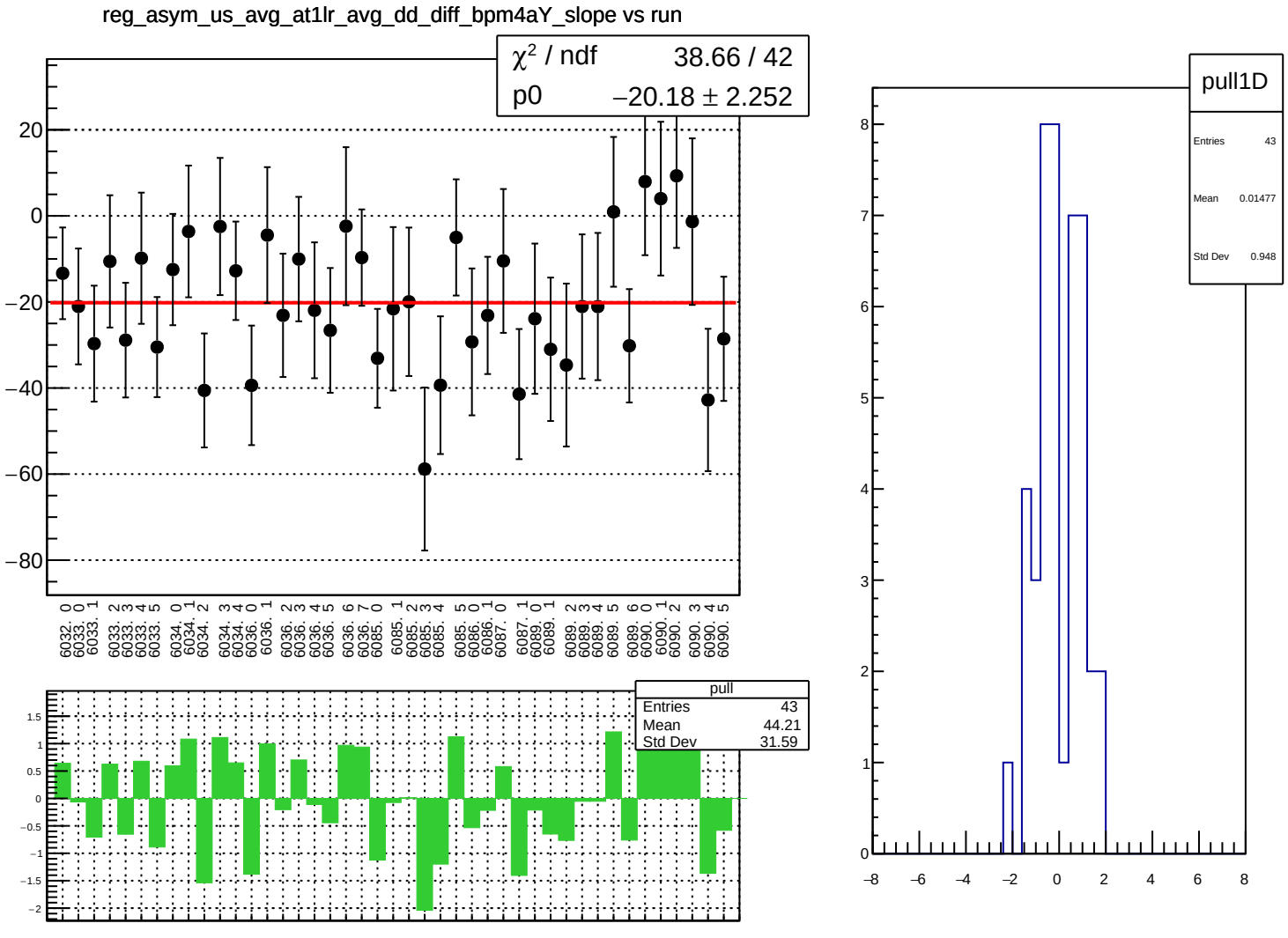

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.03 / 42
p0 −40.15 ± 3.413
pull
Entries 43
Mean 272.6
Std Dev 0

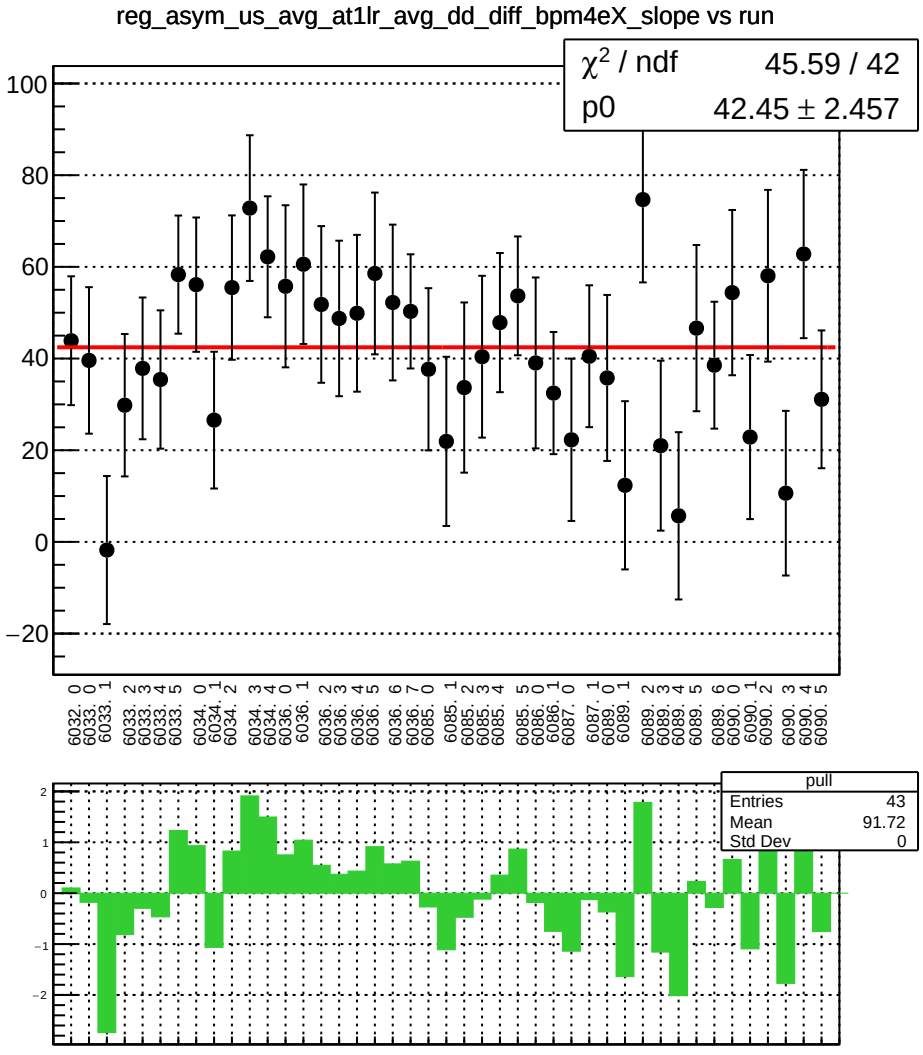

pull1D
Entries 43
Mean −0.01785
Std Dev 1.191

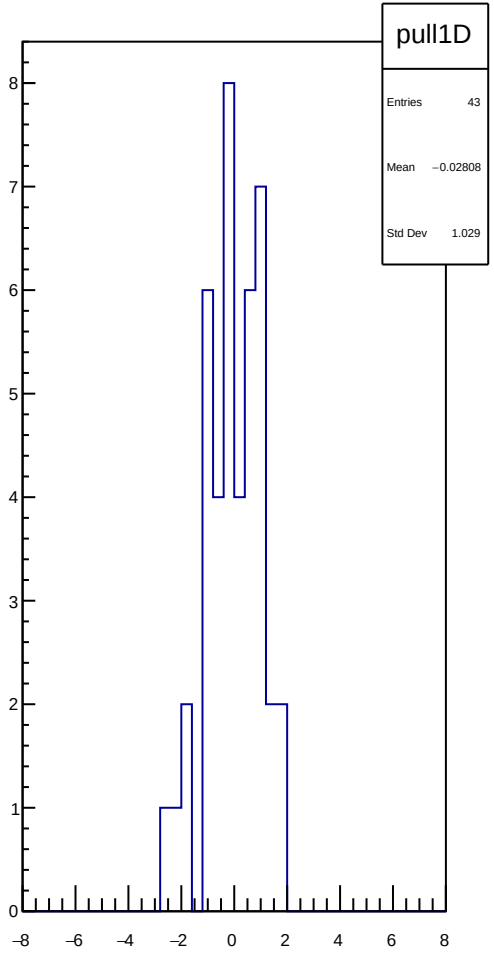

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 236 / 42
p0 −60.65 ± 0.2841
−50
−55
−60
−65
−70
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 3110
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
−5

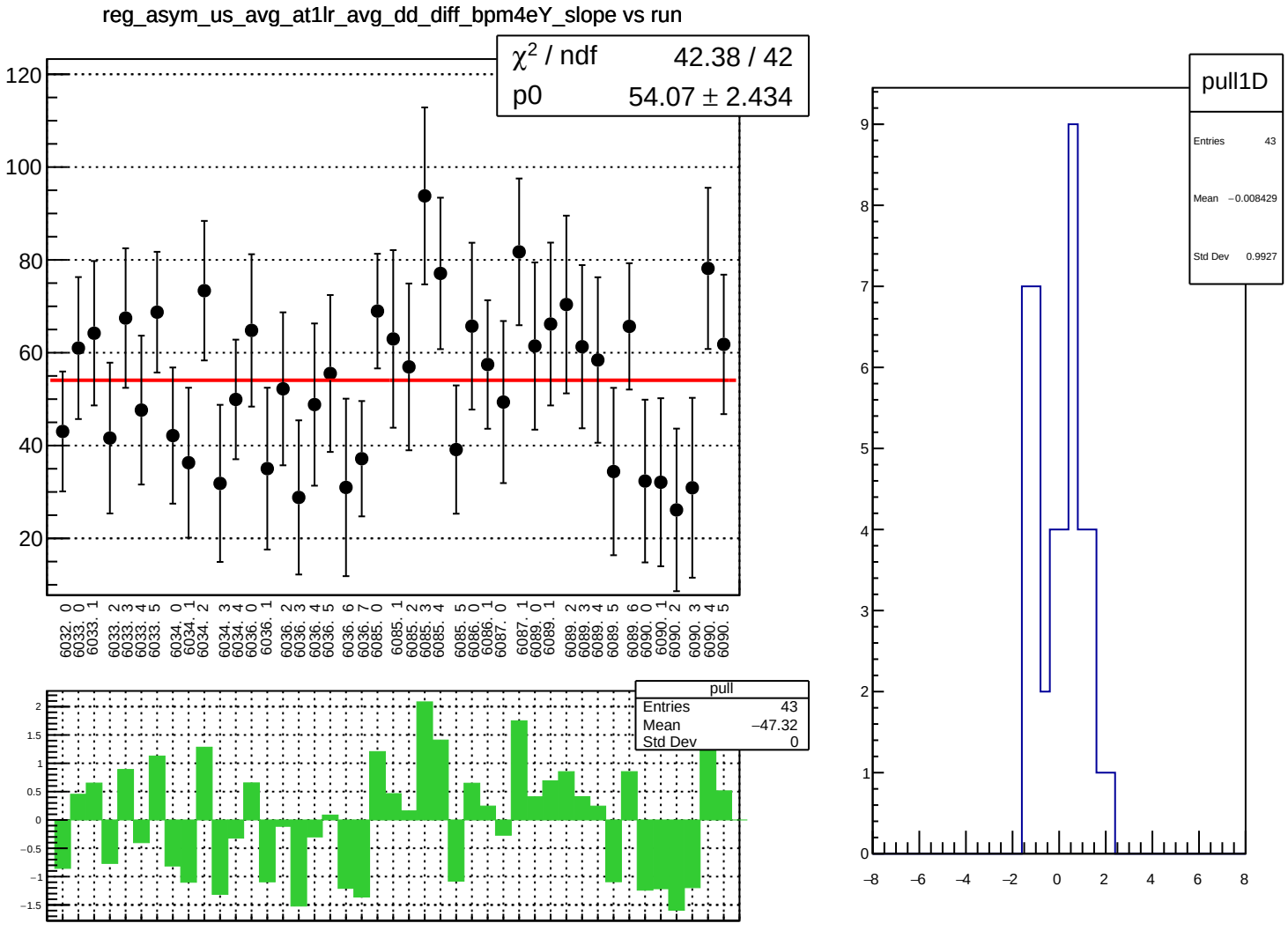

pull1D
Entries 43
Mean −0.007051
Std Dev 2.343
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

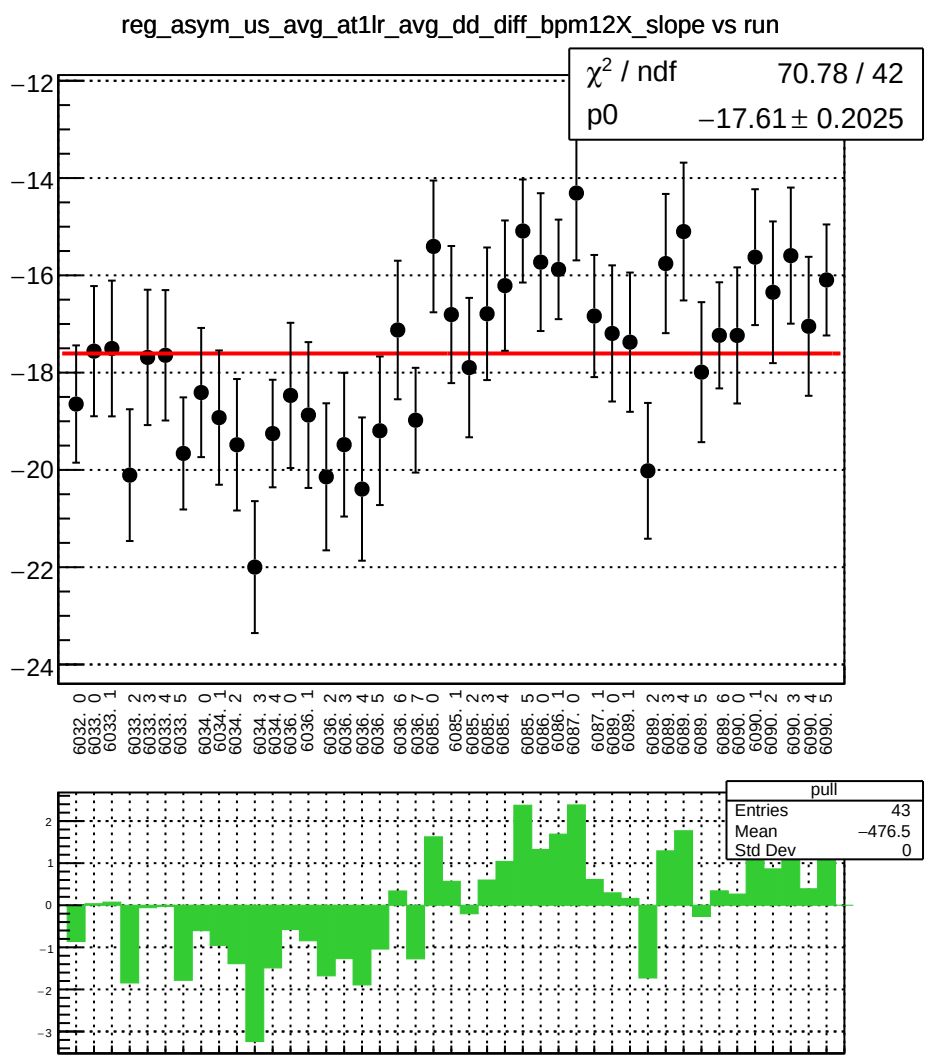

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 52.57 / 42
p0 −25.32 ± 2.217
pull
Entries 43
Mean −164.5
Std Dev 0
pull1D
Entries 43
Mean −0.02347
Std Dev 1.105

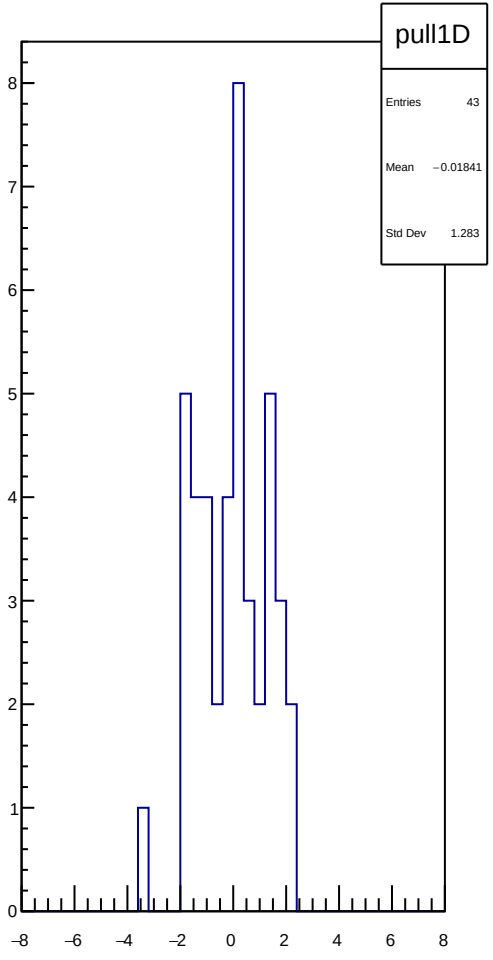

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.66 / 42
p0 −20.18 ± 2.252
20
0
−20
−40
−60
−80
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 44.21
Std Dev 31.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01477
Std Dev 0.948
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

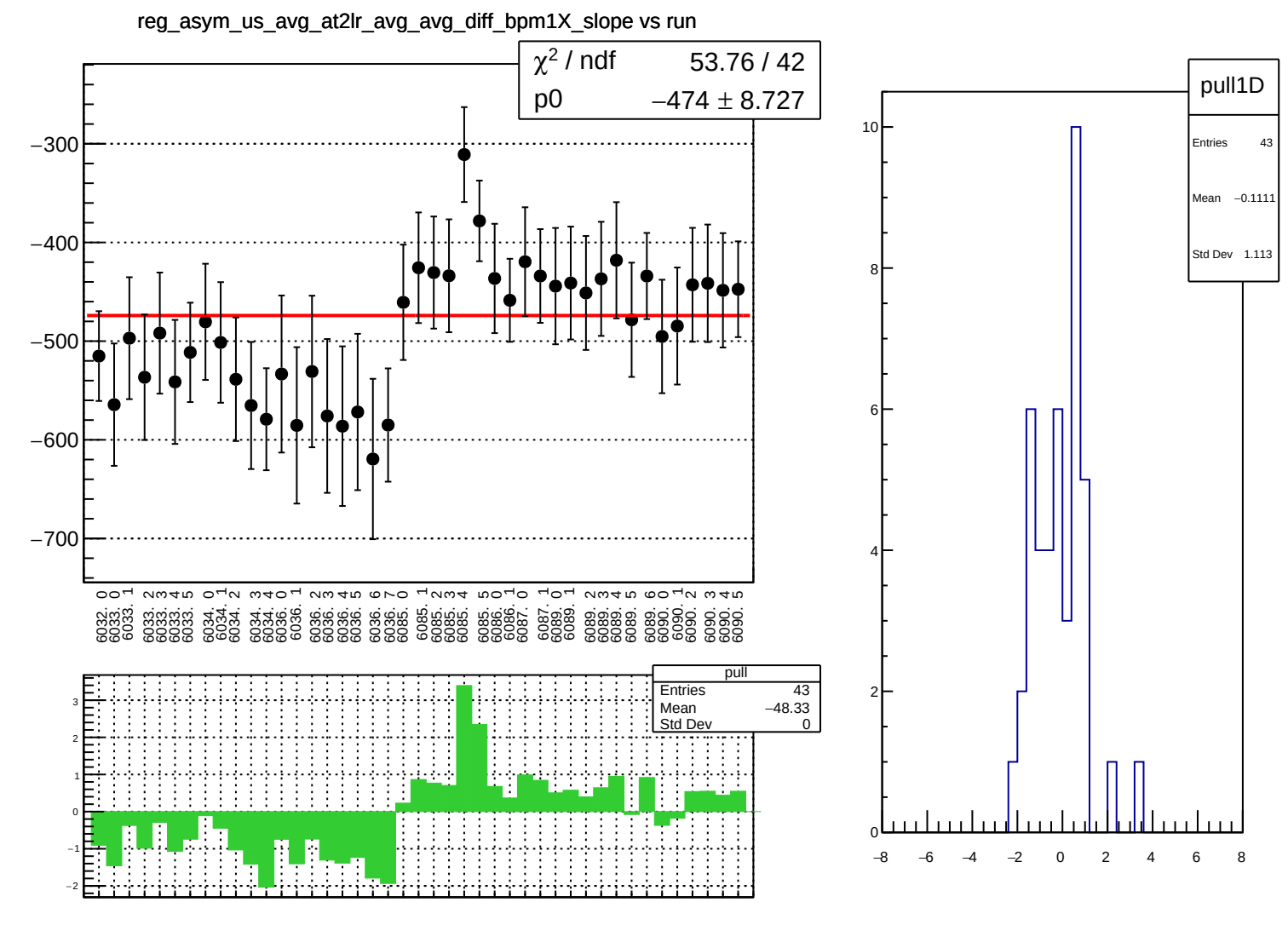

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.59 / 42
p0 42.45 ± 2.457
pull
Entries 43
Mean 91.72
Std Dev 0

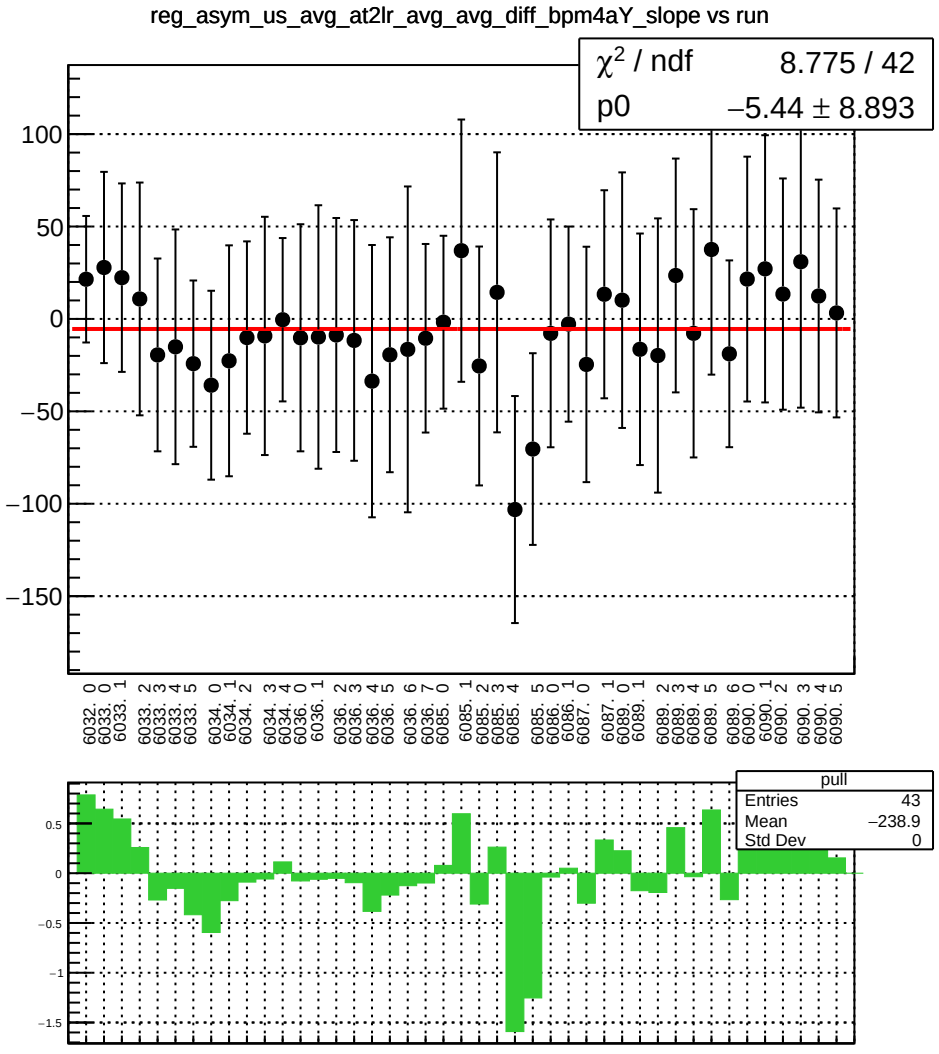

pull1D
Entries 43
Mean −0.02808
Std Dev 1.029

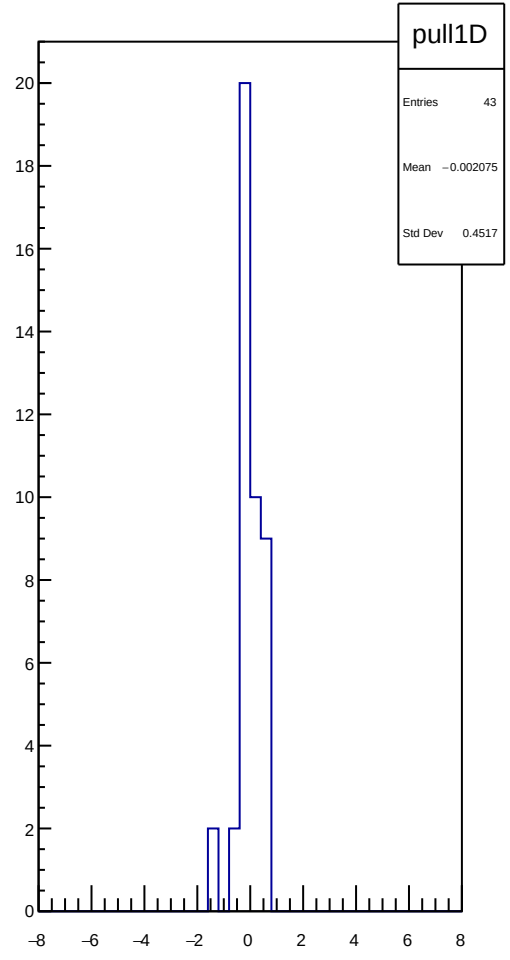

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.38 / 42
p0 54.07 ± 2.434
120
100
80
60
40
20
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −47.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.008429
Std Dev 0.9927
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

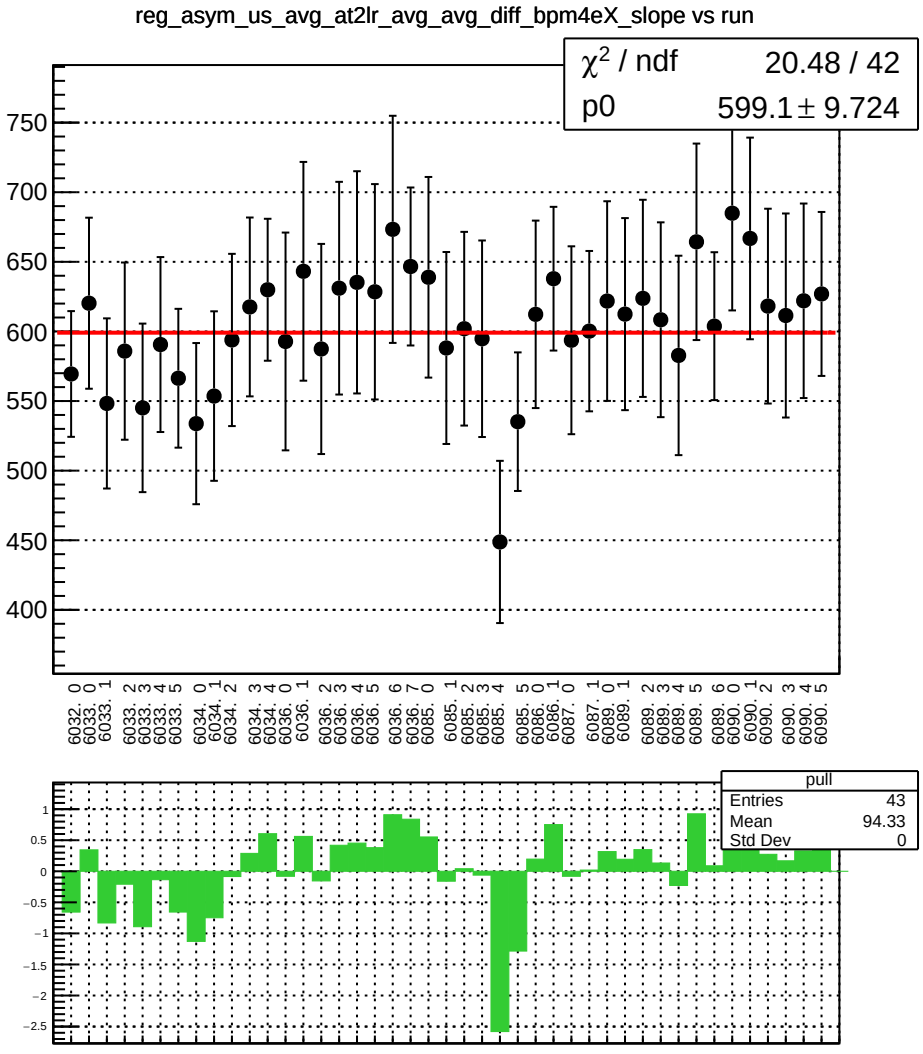

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 70.78 / 42
p0 −17.61 ± 0.2025
pull
Entries 43
Mean −476.5
Std Dev 0

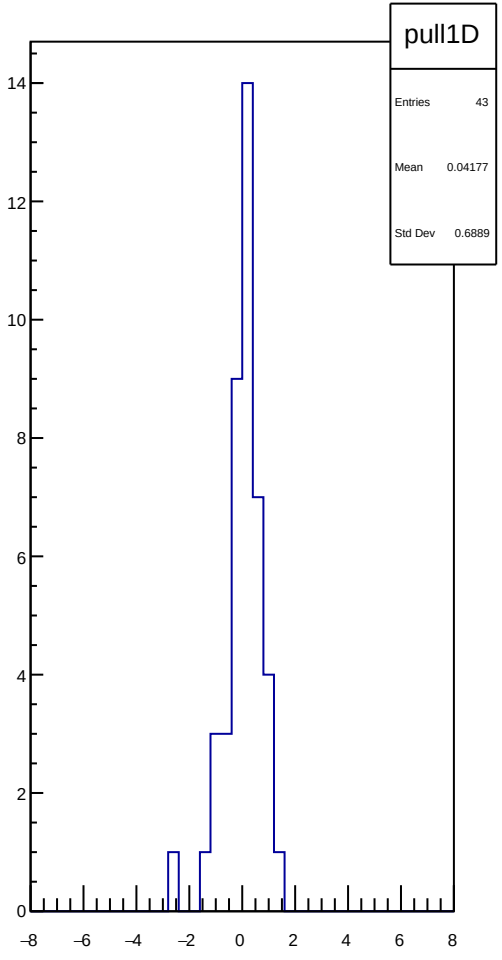

pull1D
Entries 43
Mean −0.01841
Std Dev 1.283

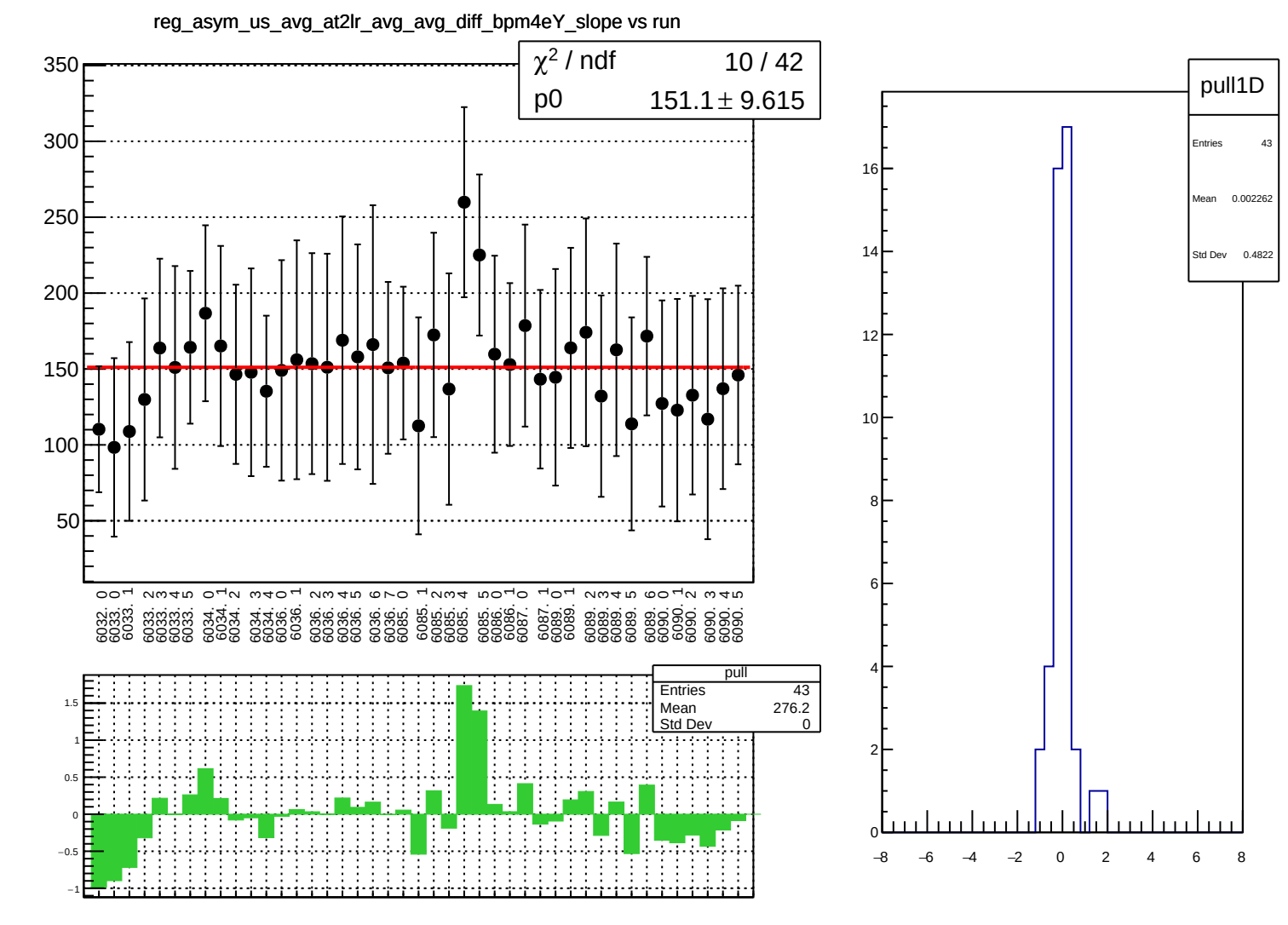

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 53.76 / 42
p0 −474 ± 8.727
−300
−400
−500
−600
−700
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −48.33
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1111
Std Dev 1.113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

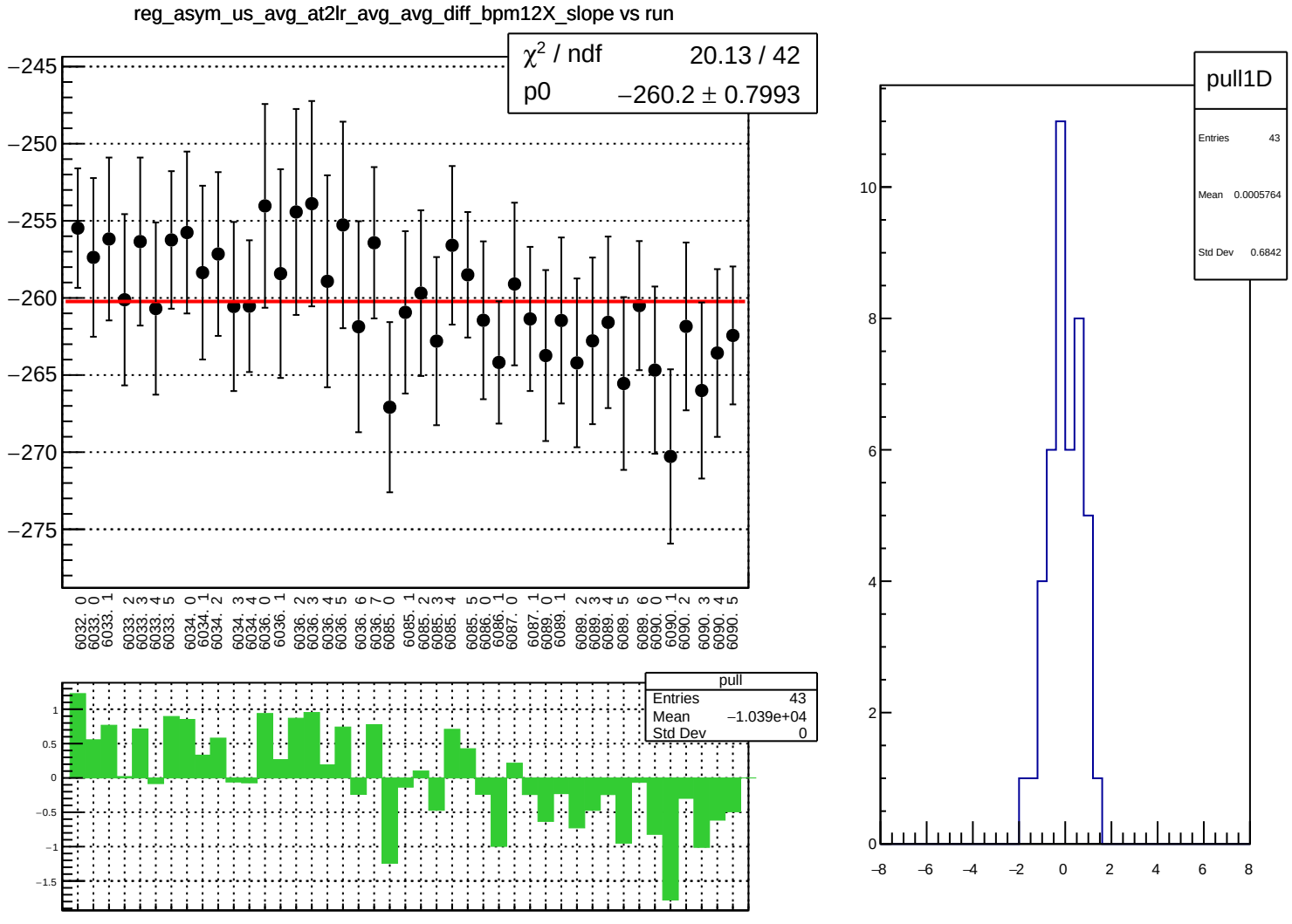

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.775 / 42
p0 −5.44 ± 8.893
100
50
0
−50
−100
−150
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −238.9
Std Dev 0
0.5
0
−0.5
−1
−1.5

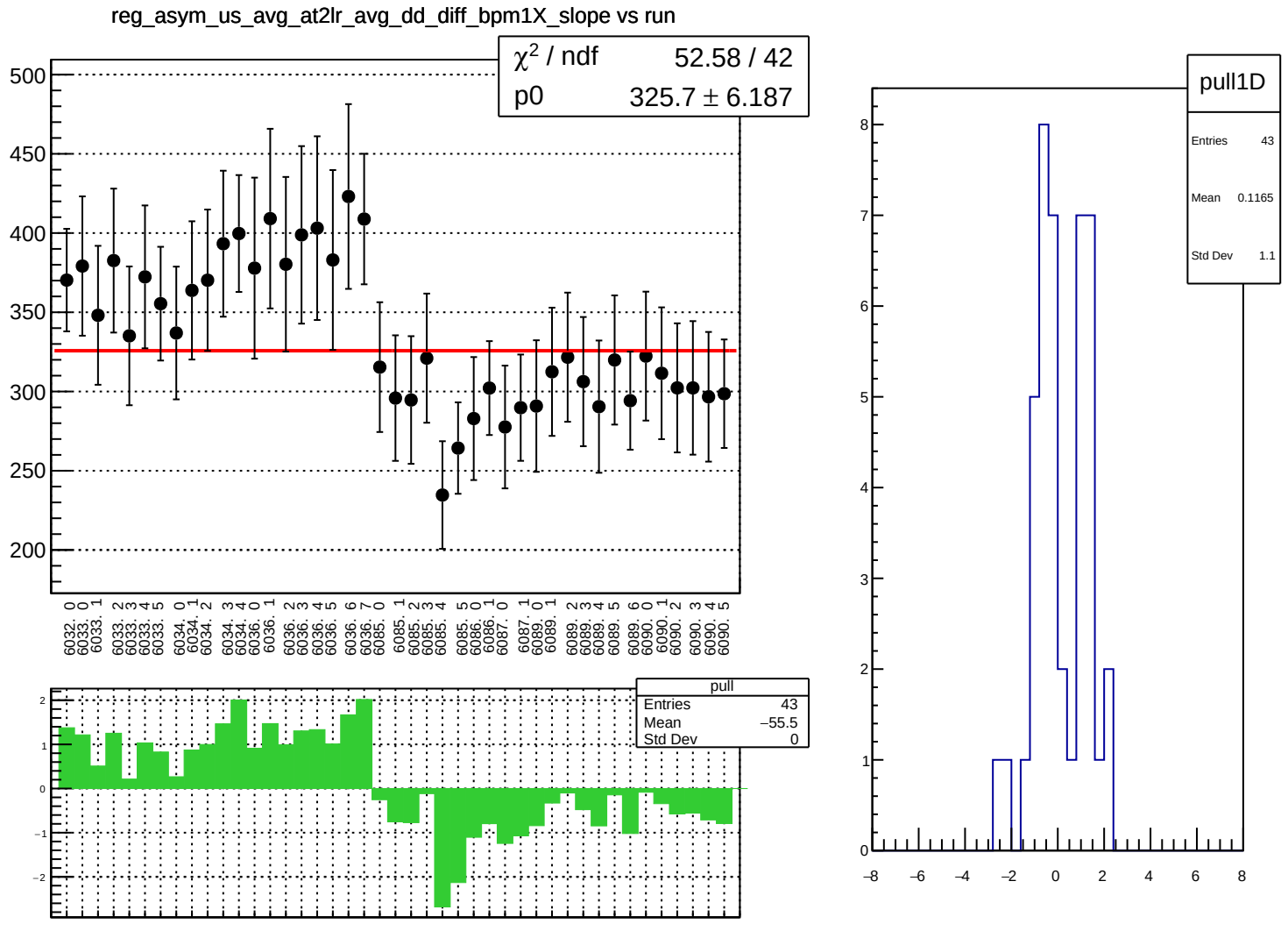

pull1D
Entries 43
Mean −0.002075
Std Dev 0.4517
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

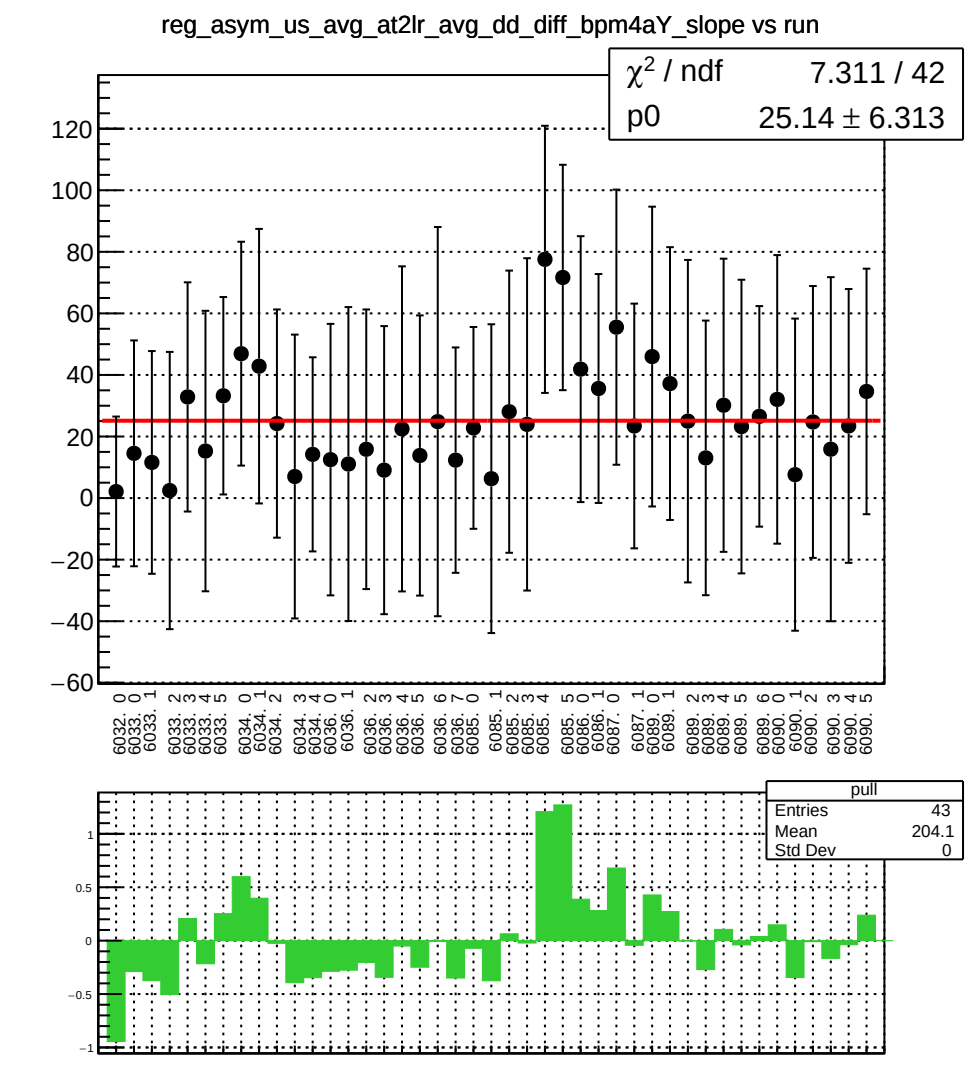

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.48 / 42
p0 599.1 ± 9.724
pull
Entries 43
Mean 94.33
Std Dev 0

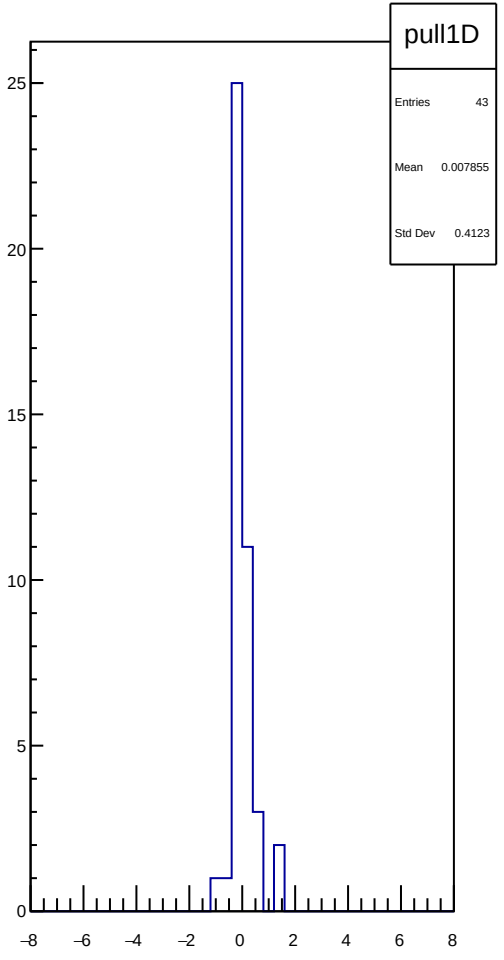

pull1D
Entries 43
Mean 0.04177
Std Dev 0.6889

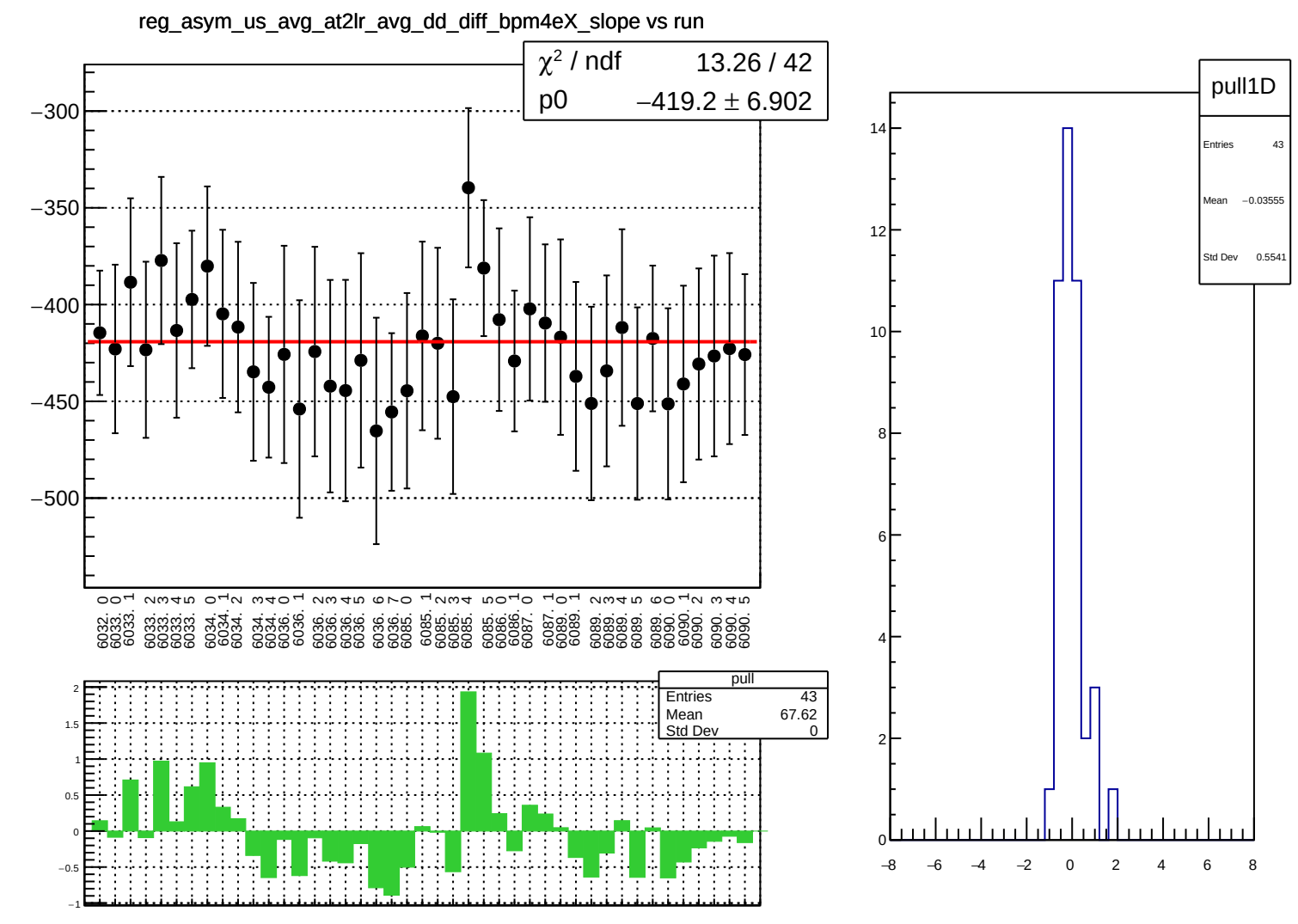

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 10 / 42
p0 151.1 ± 9.615
pull
Entries 43
Mean 276.2
Std Dev 0
pull1D
Entries 43
Mean 0.002262
Std Dev 0.4822

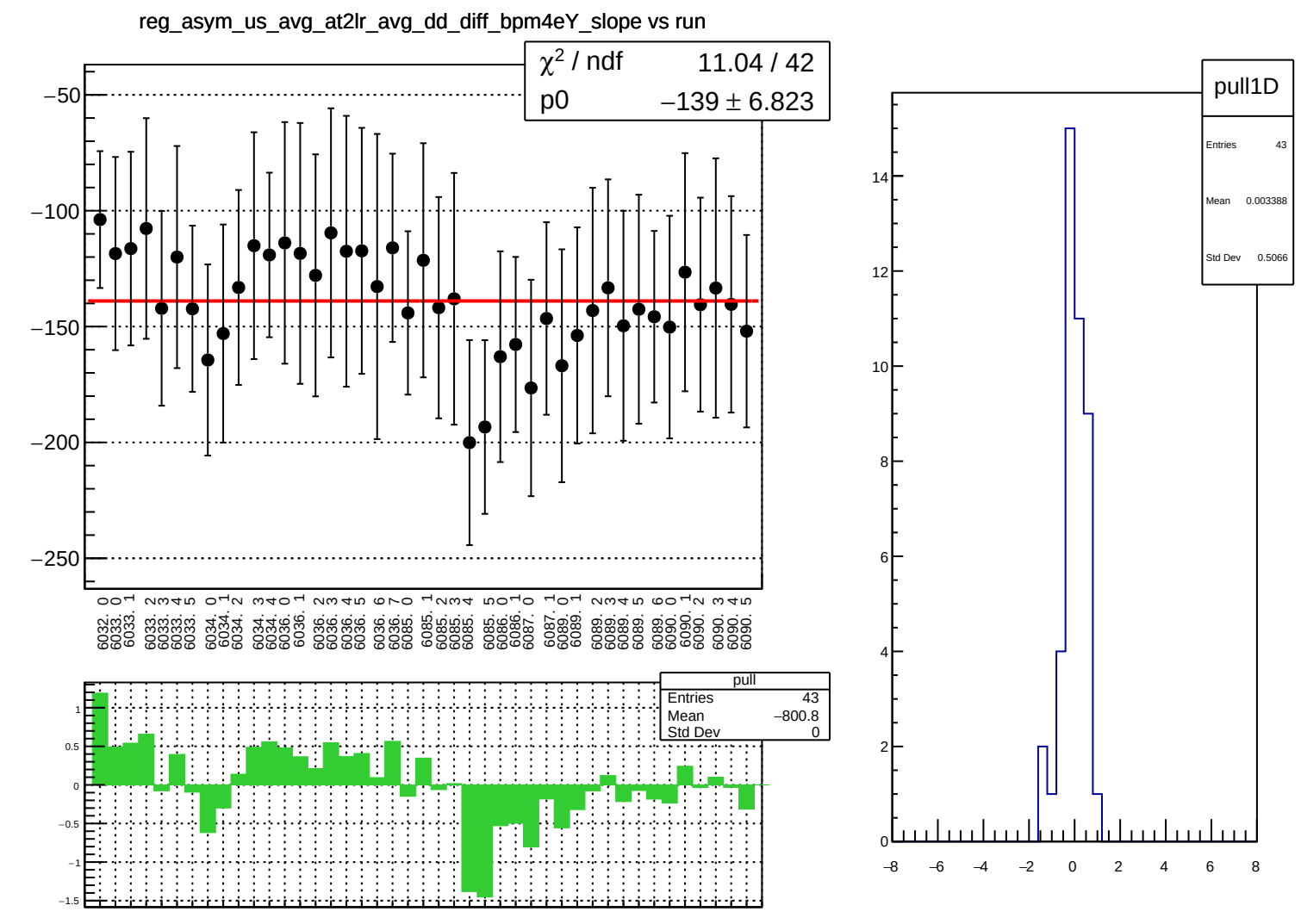

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 20.13 / 42
p0 −260.2 ± 0.7993
−245
−250
−255
−260
−265
−270
−275
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −1.039e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0005764
Std Dev 0.6842
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

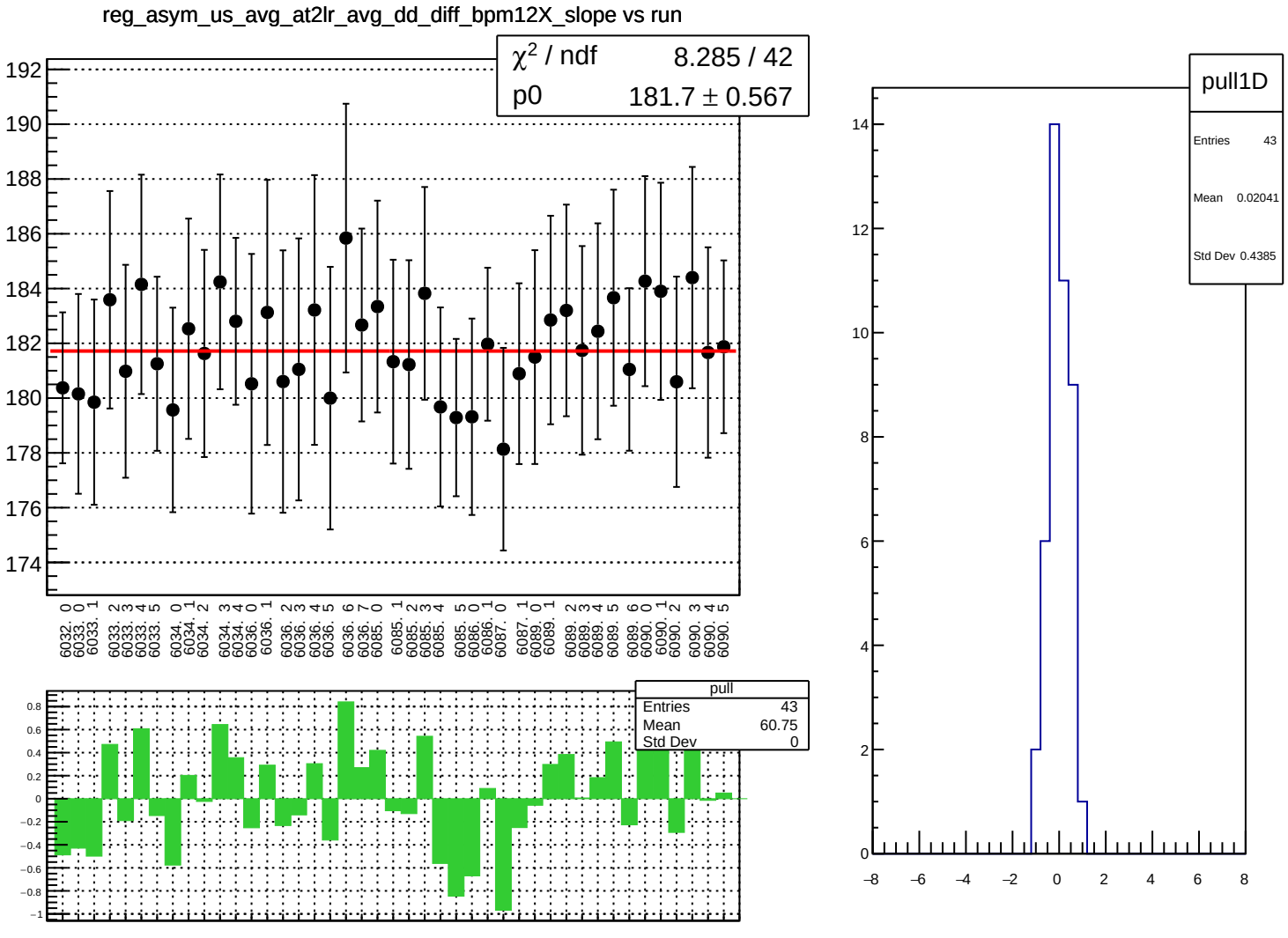

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 52.58 / 42
p0 325.7 ± 6.187
500
450
400
350
300
250
200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −55.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1165
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

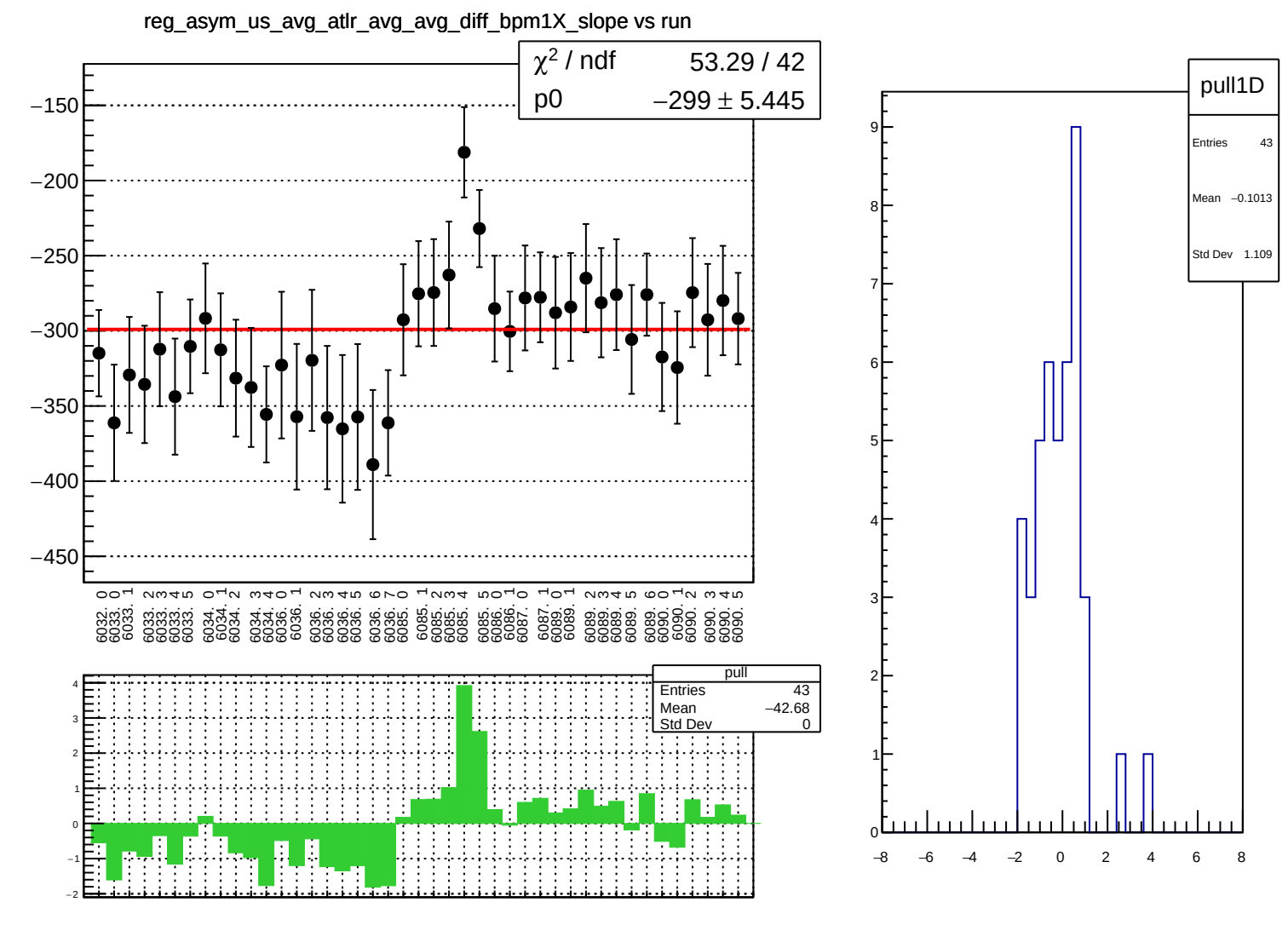

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.311 / 42
p0 25.14 ± 6.313
pull
Entries 43
Mean 204.1
Std Dev 0

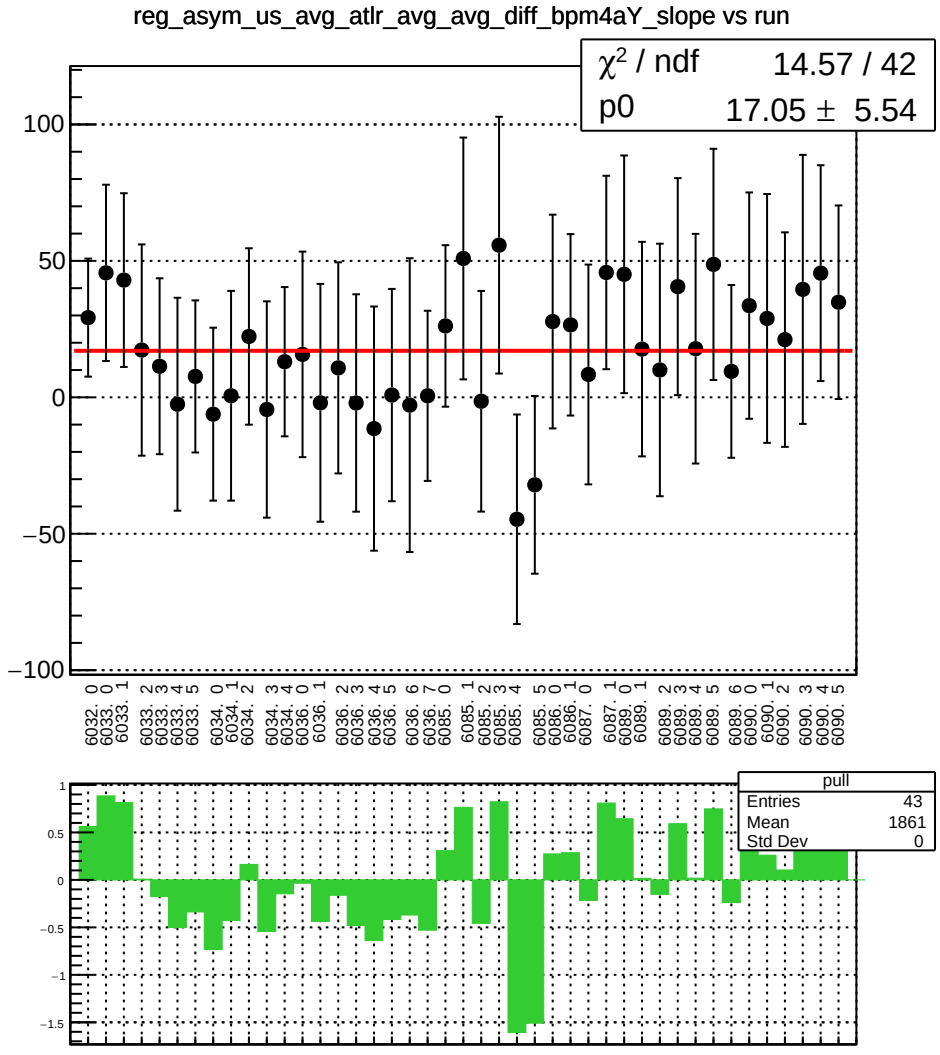

pull1D
Entries 43
Mean 0.007855
Std Dev 0.4123

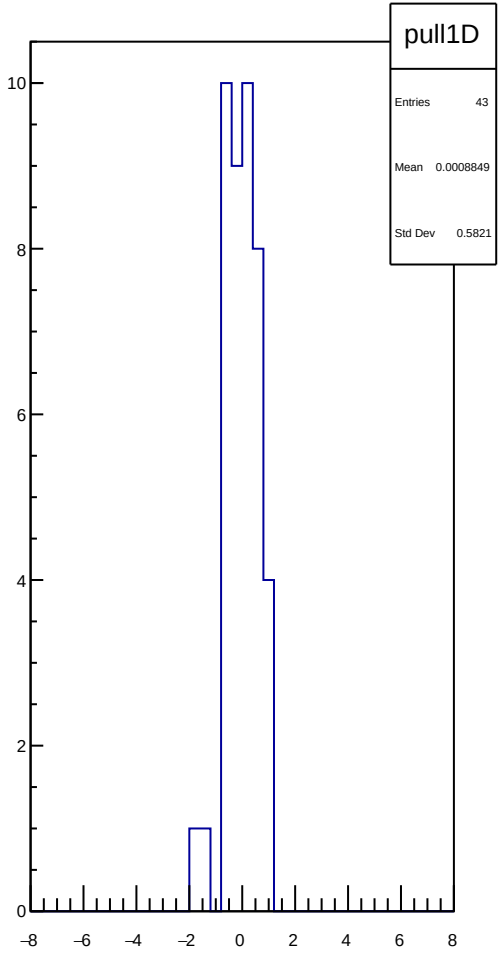

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.26 / 42
p0 −419.2 ± 6.902
−300
−350
−400
−450
−500
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 67.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.03555
Std Dev 0.5541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

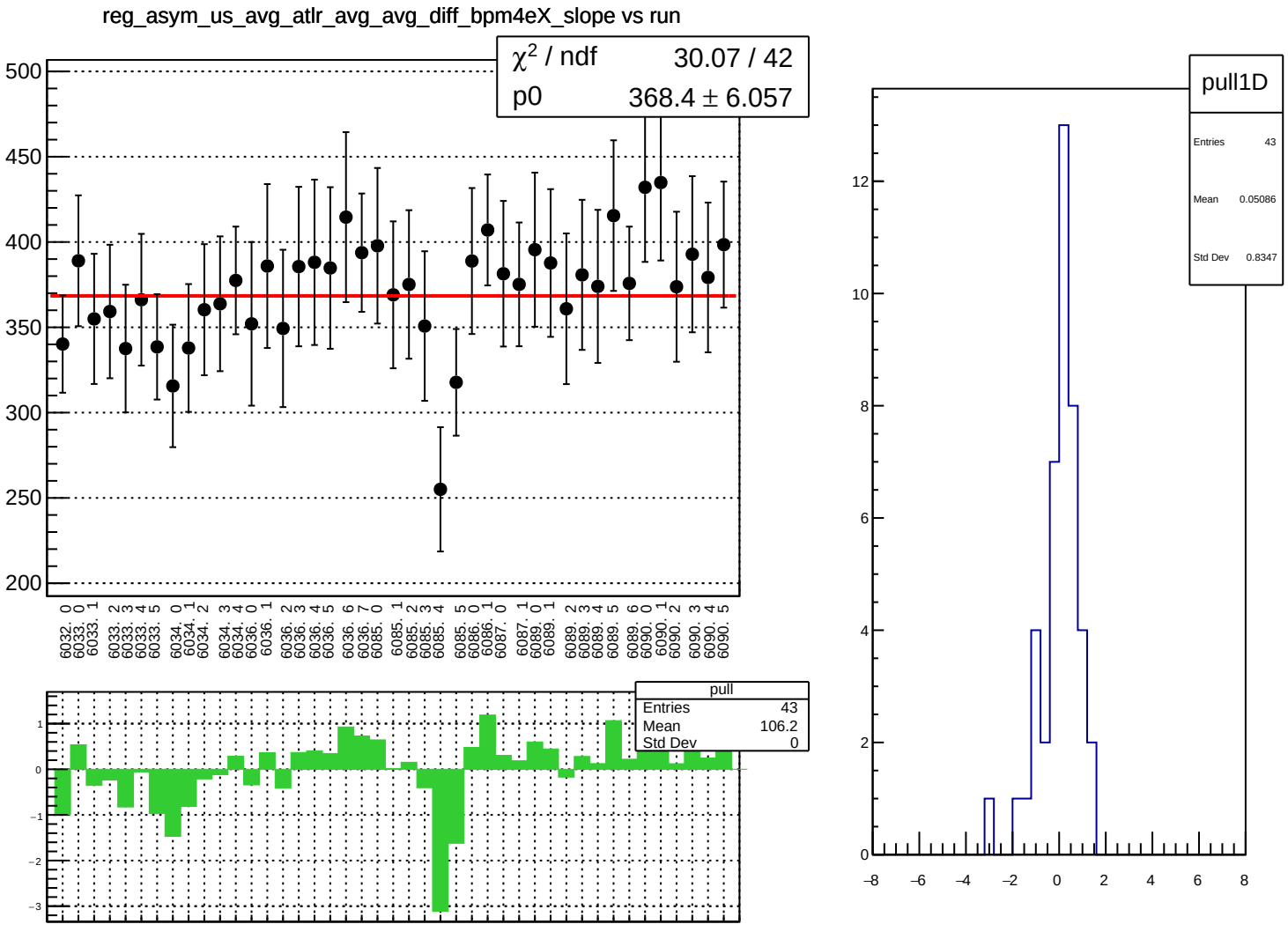

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.04 / 42
p0 −139 ± 6.823
−50
−100
−150
−200
−250
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −800.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.003388
Std Dev 0.5066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

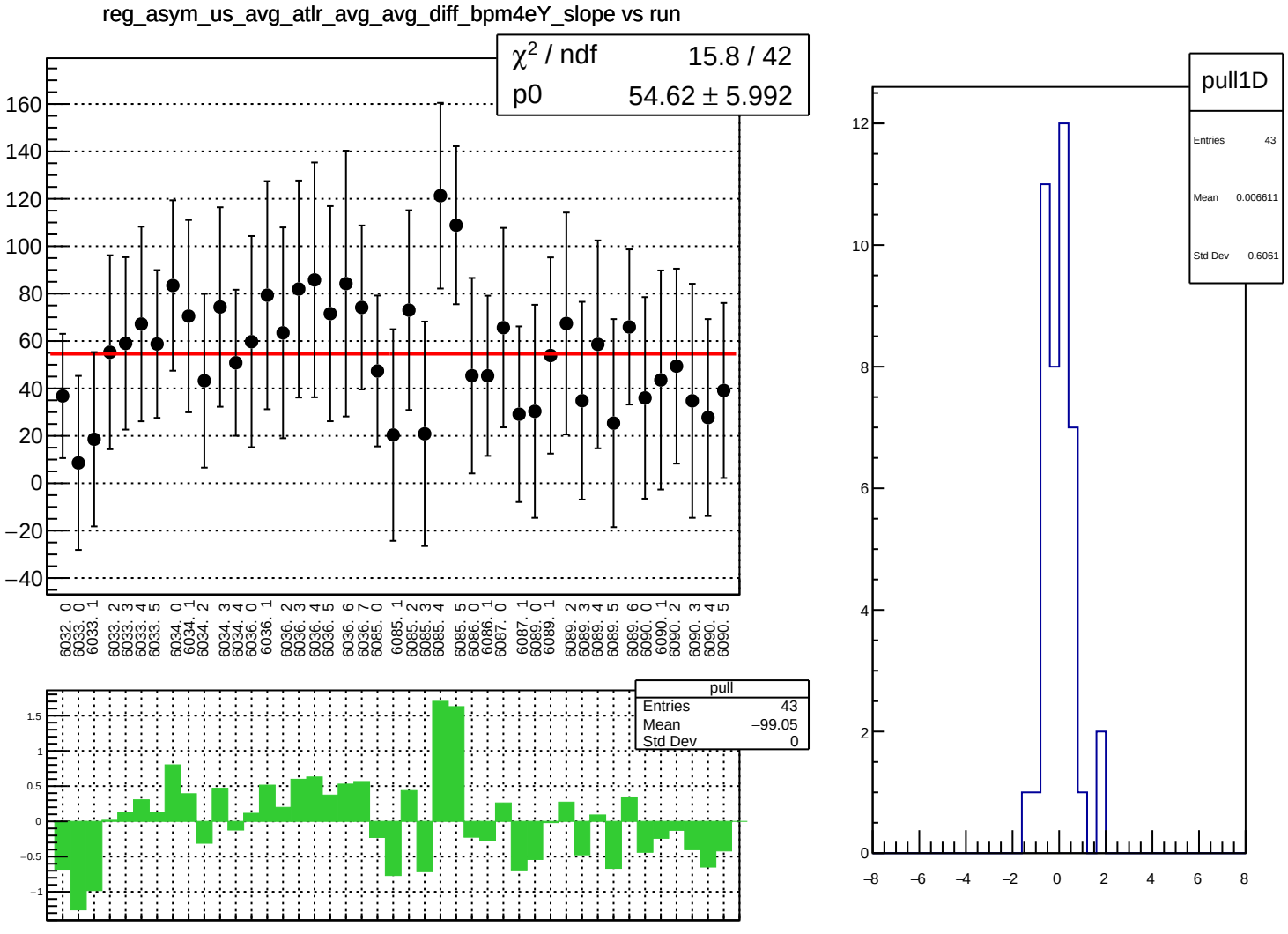

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.285 / 42
p0 181.7 ± 0.567
192
190
188
186
184
182
180
178
176
174
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 60.75
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean 0.02041
Std Dev 0.4385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

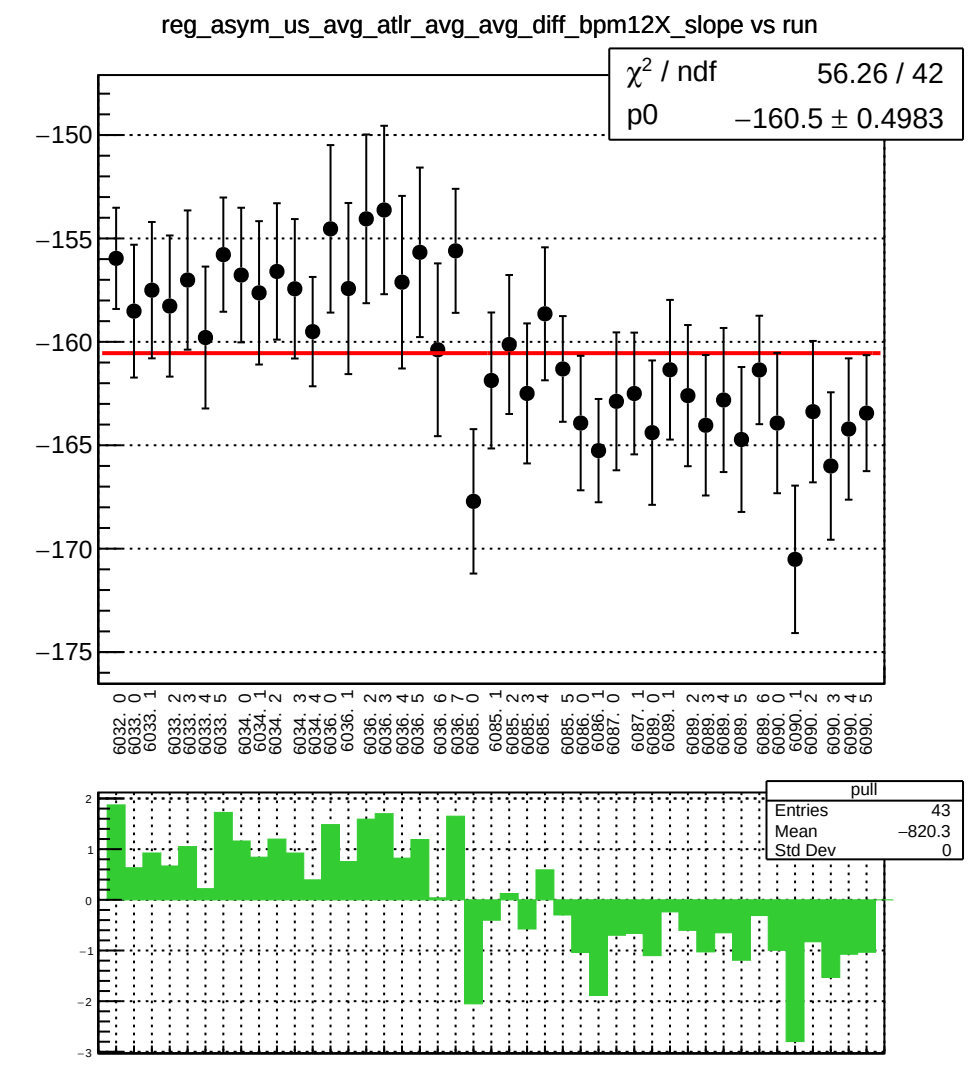

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 53.29 / 42
p0 −299 ± 5.445
−150
−200
−250
−300
−350
−400
−450
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −42.68
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1013
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

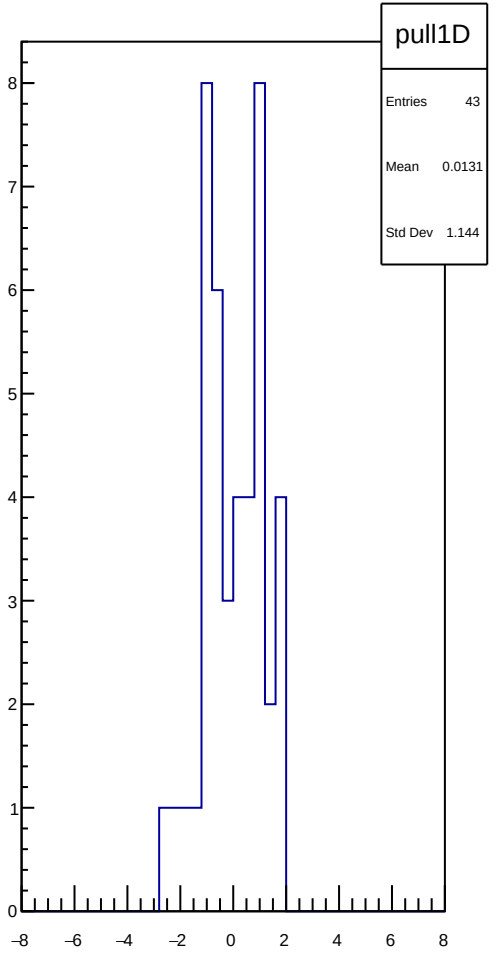

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.57 / 42
p0 17.05 ± 5.54
100
50
0
−50
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 1861
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

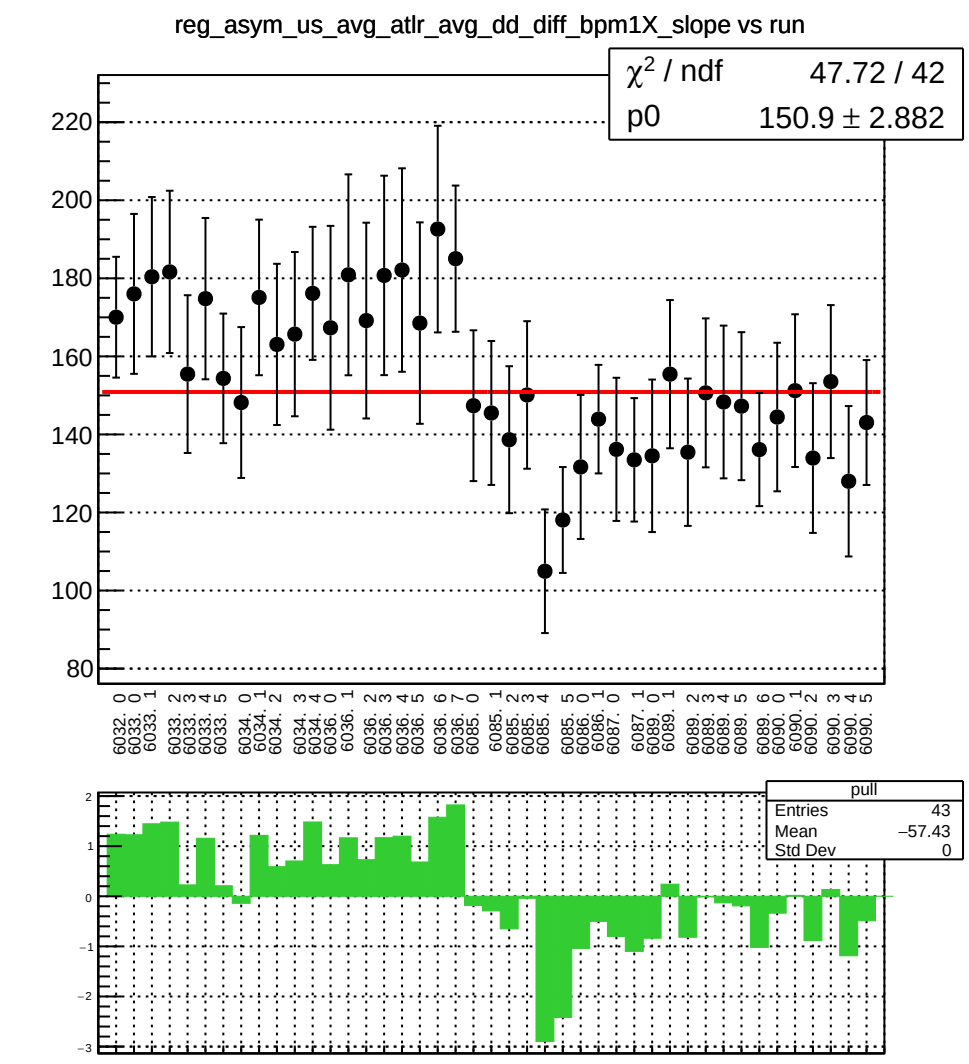

pull1D
Entries 43
Mean 0.0008849
Std Dev 0.5821
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

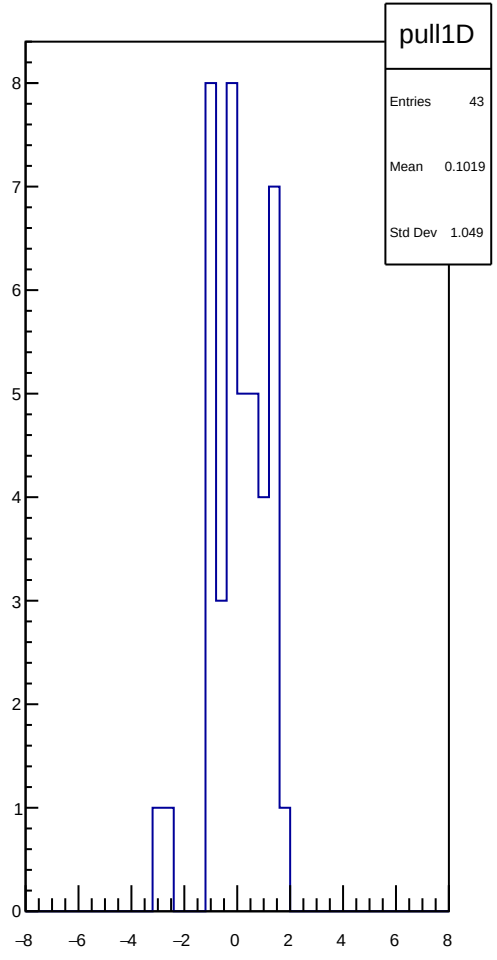

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.07 / 42
p0 368.4 ± 6.057
pull
Entries 43
Mean 106.2
Std Dev 0
pull1D
Entries 43
Mean 0.05086
Std Dev 0.8347

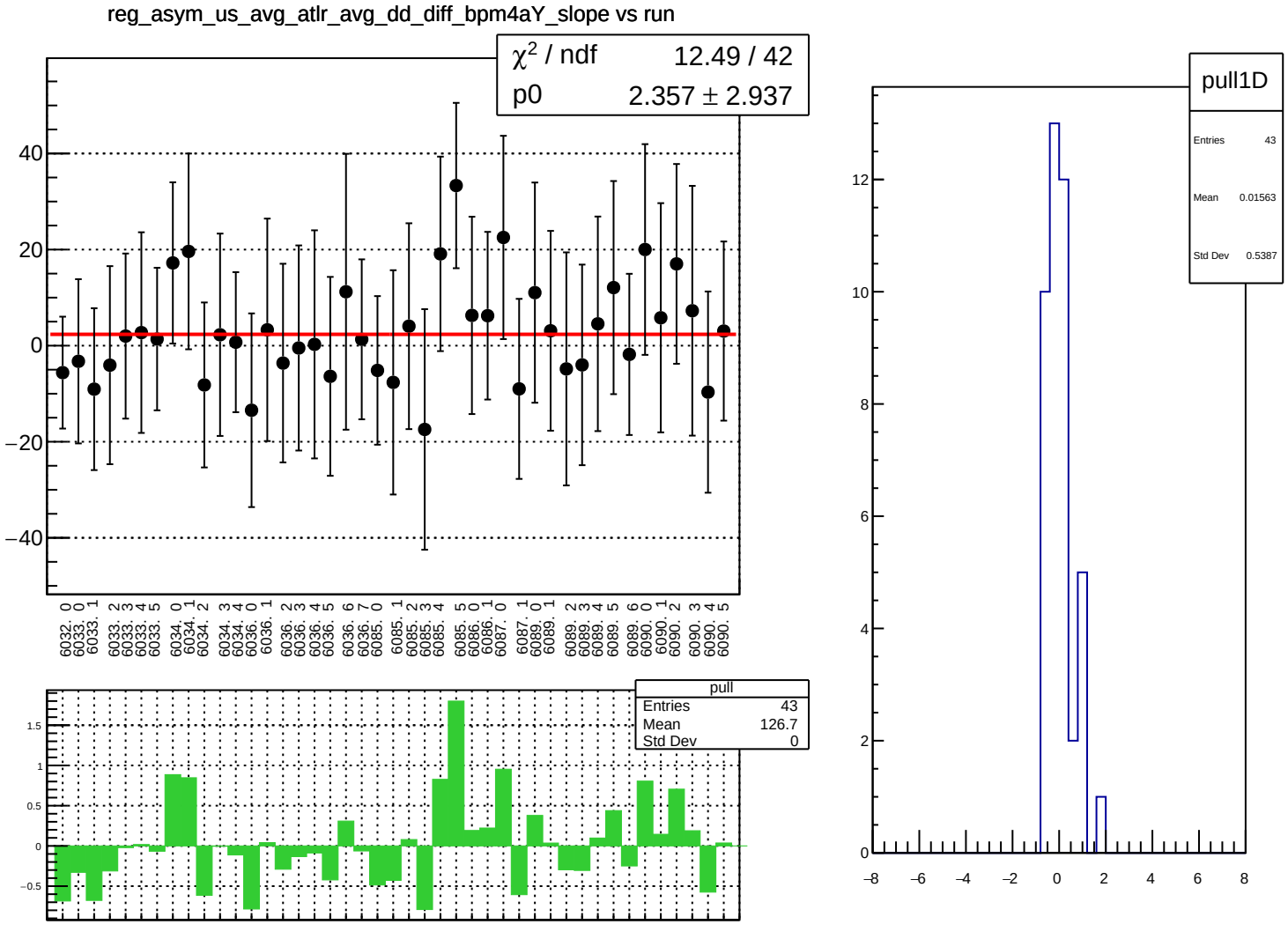

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.8 / 42
p0 54.62 ± 5.992
160
140
120
100
80
60
40
20
0
−20
−40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −99.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.006611
Std Dev 0.6061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

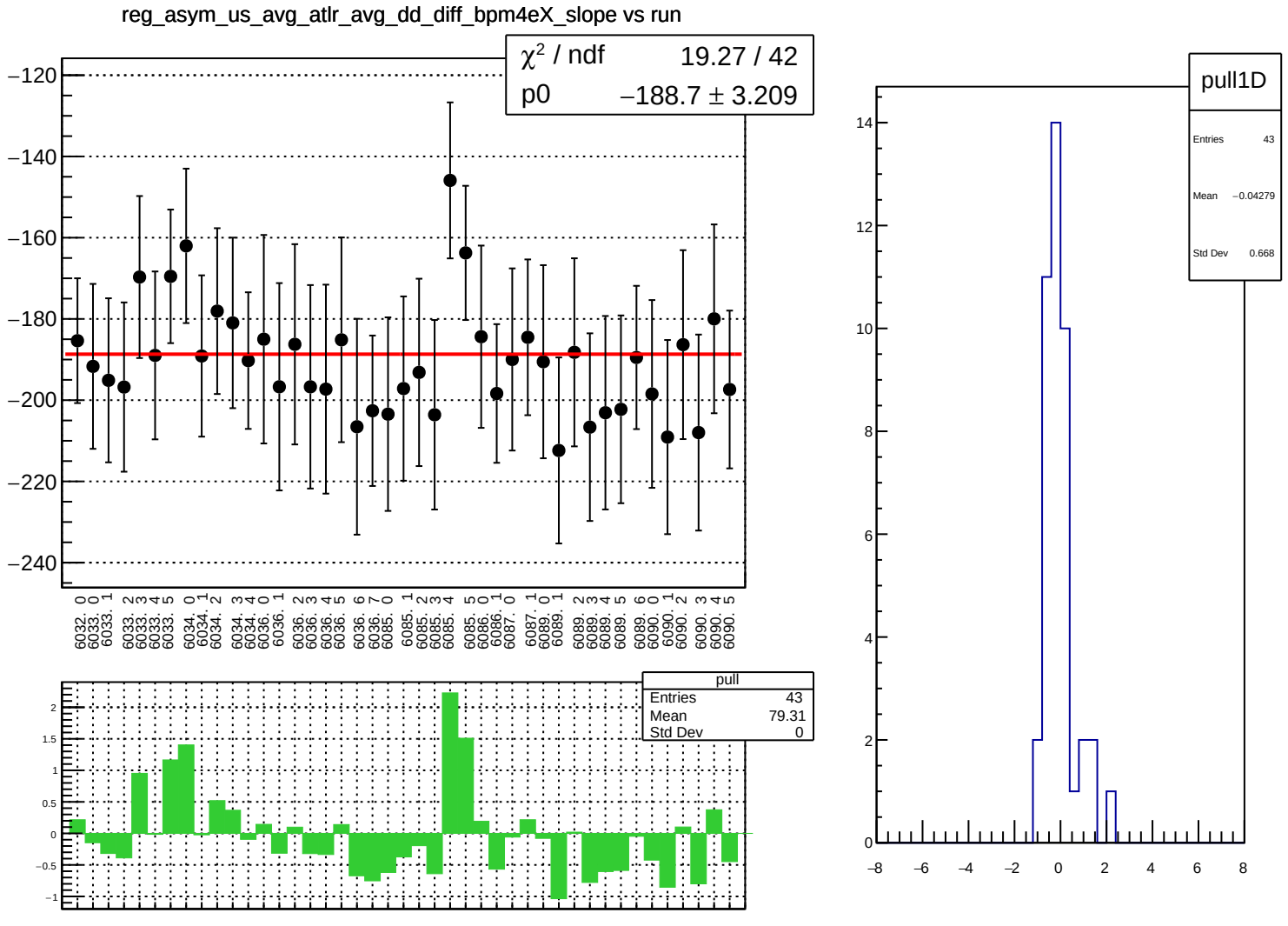

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 56.26 / 42
p0 −160.5 ± 0.4983
−150
−155
−160
−165
−170
−175
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −820.3
Std Dev 0
2
1
0
−1
−2
−3

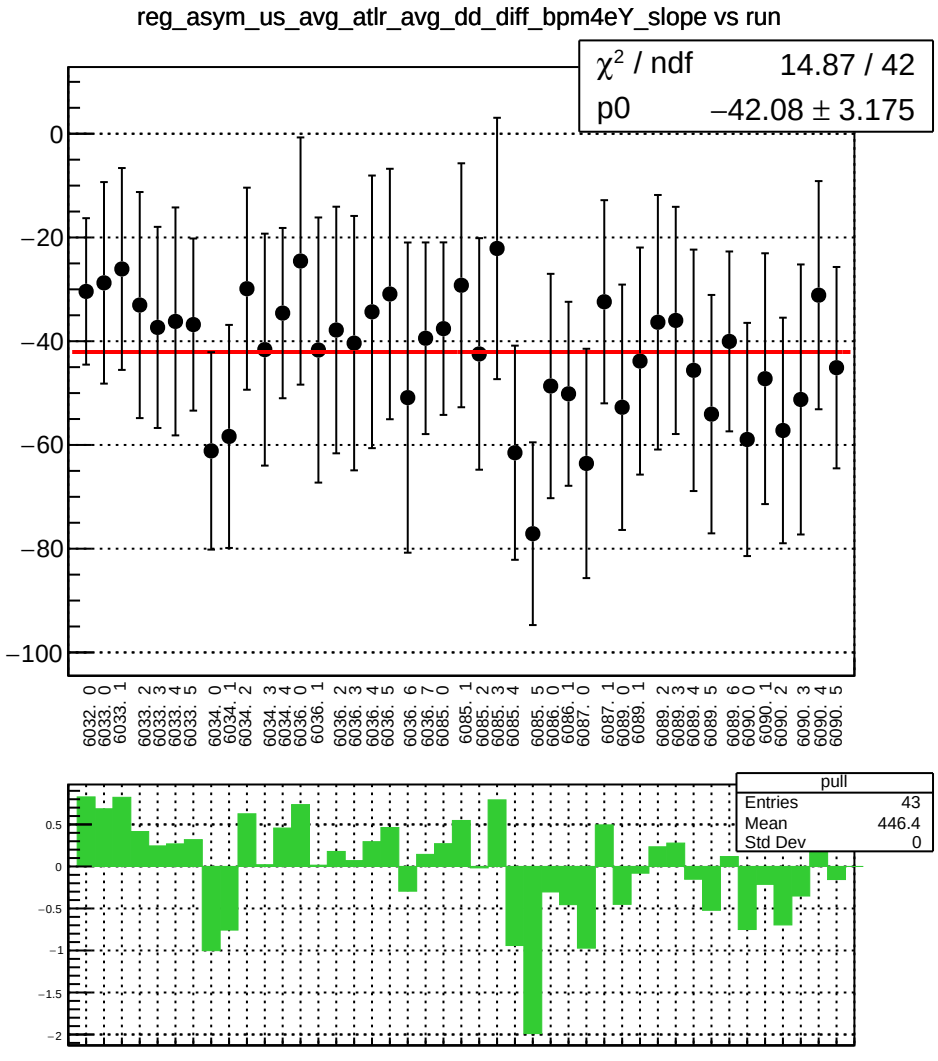

pull1D
Entries 43
Mean 0.0131
Std Dev 1.144
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

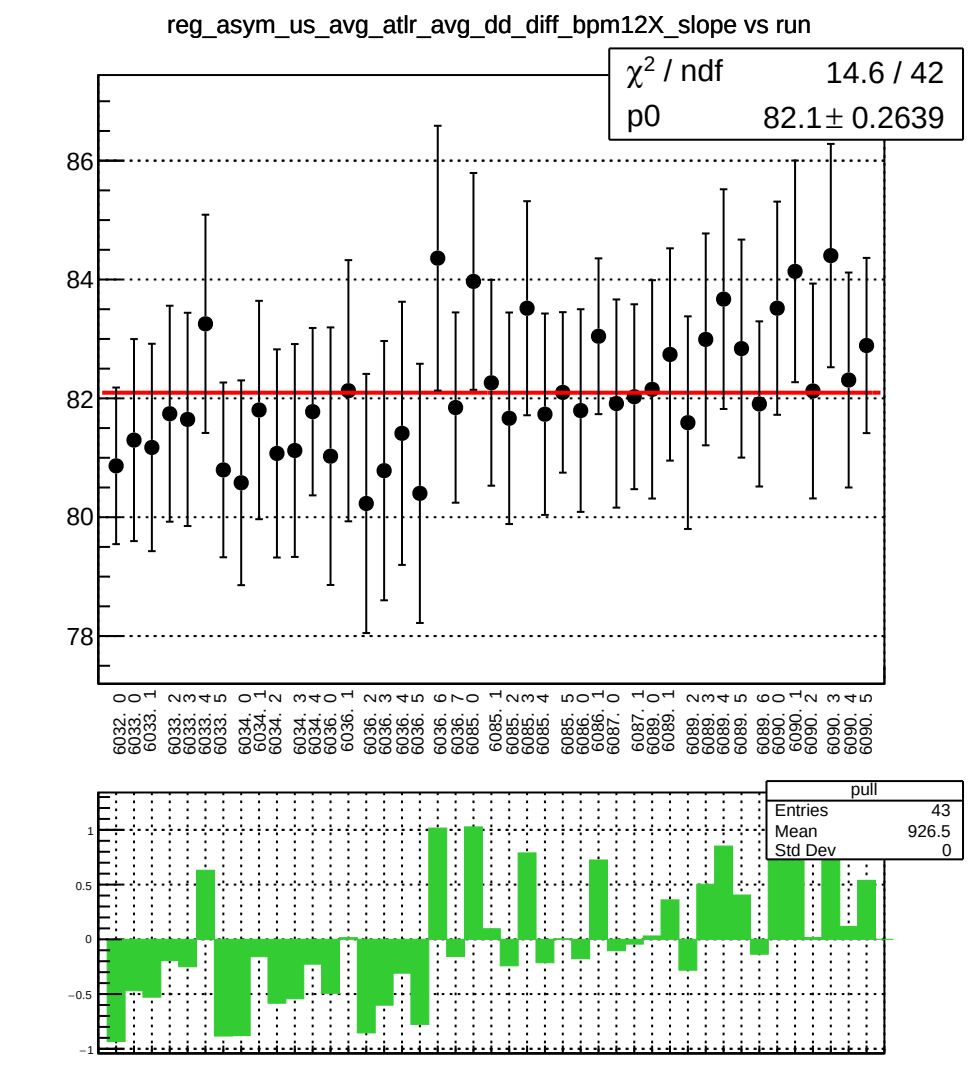

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 47.72 / 42
p0 150.9 ± 2.882
pull
Entries 43
Mean −57.43
Std Dev 0

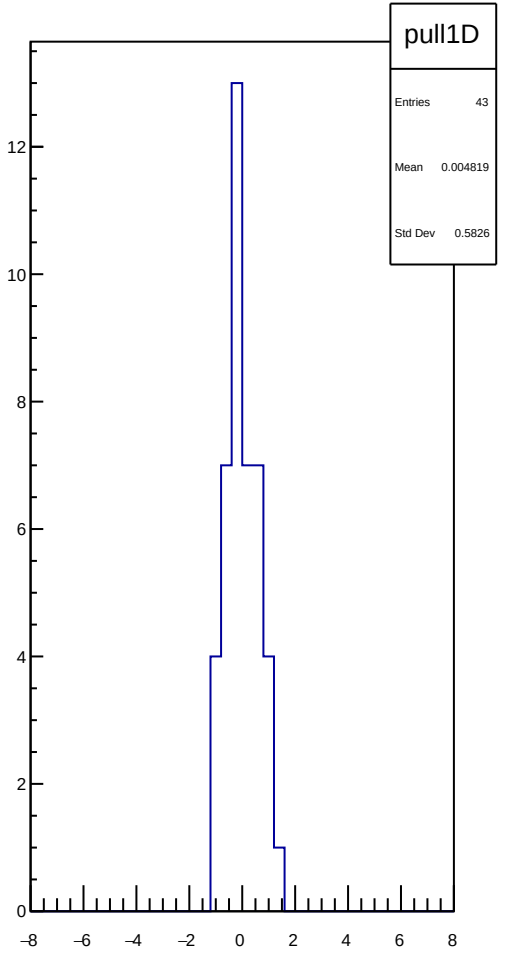

pull1D
Entries 43
Mean 0.1019
Std Dev 1.049

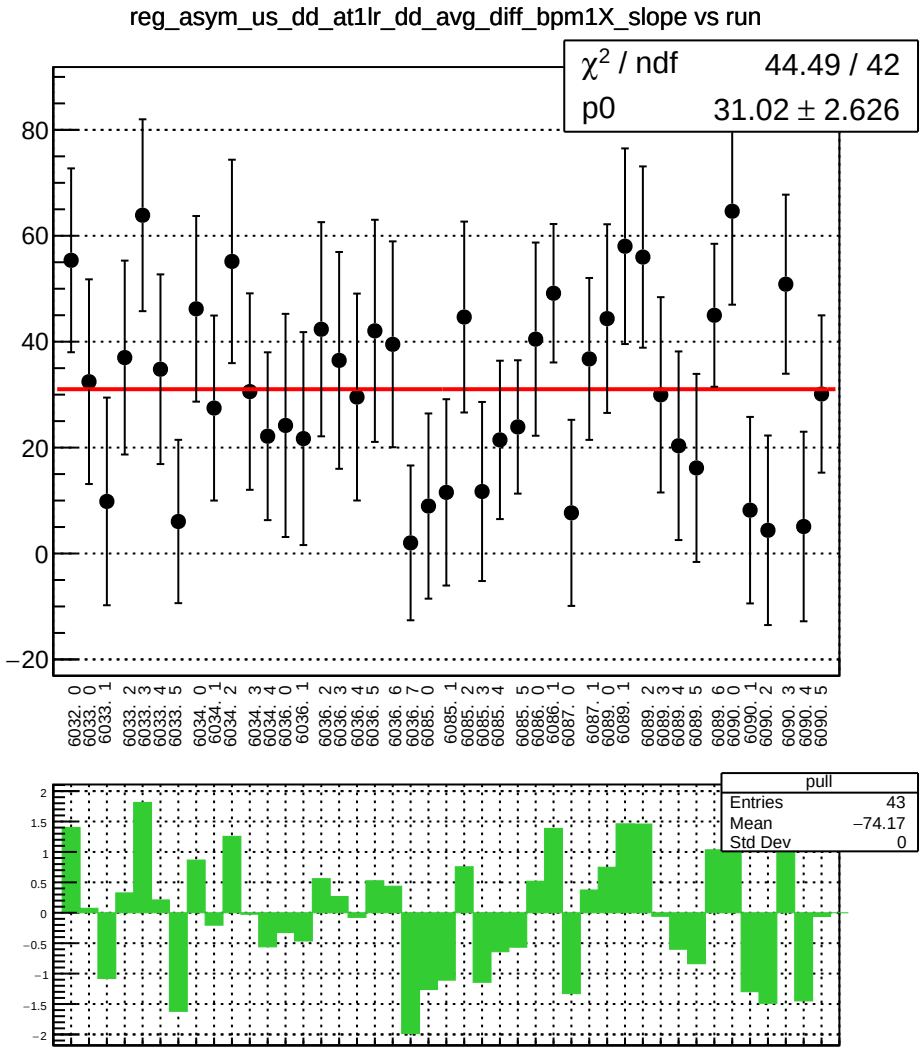

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.49 / 42
p0 2.357 ± 2.937
pull
Entries 43
Mean 126.7
Std Dev 0
pull1D
Entries 43
Mean 0.01563
Std Dev 0.5387

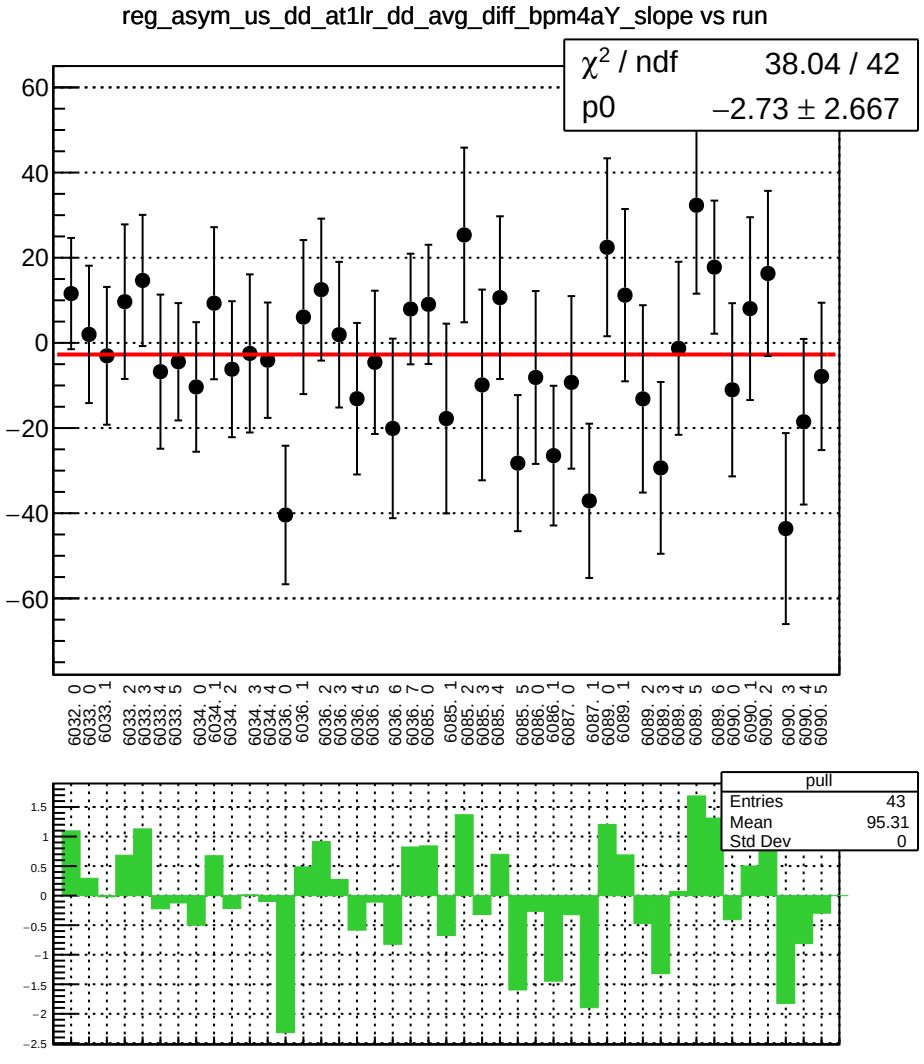

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.27 / 42
p0 −188.7 ± 3.209
−120
−140
−160
−180
−200
−220
−240
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 79.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04279
Std Dev 0.668
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

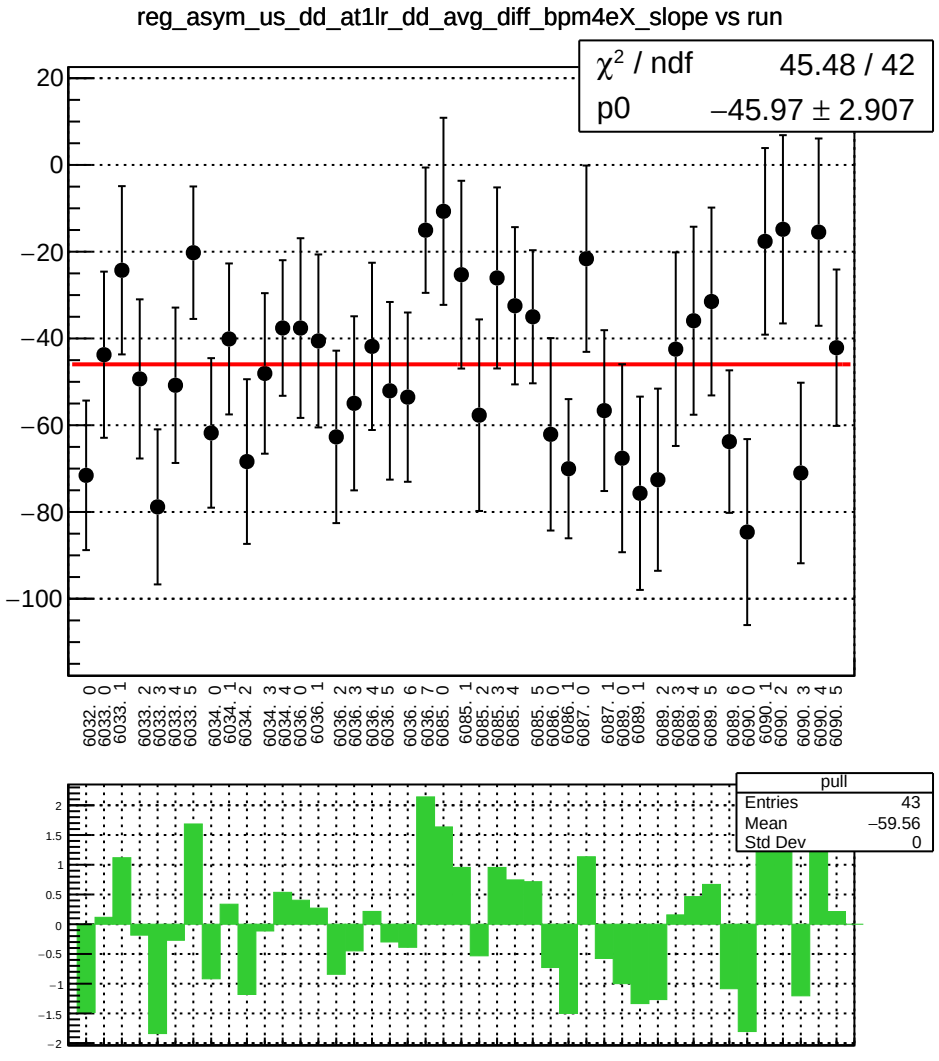

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.87 / 42
p0 −42.08 ± 3.175
pull
Entries 43
Mean 446.4
Std Dev 0
pull1D
Entries 43
Mean −0.006468
Std Dev 0.588

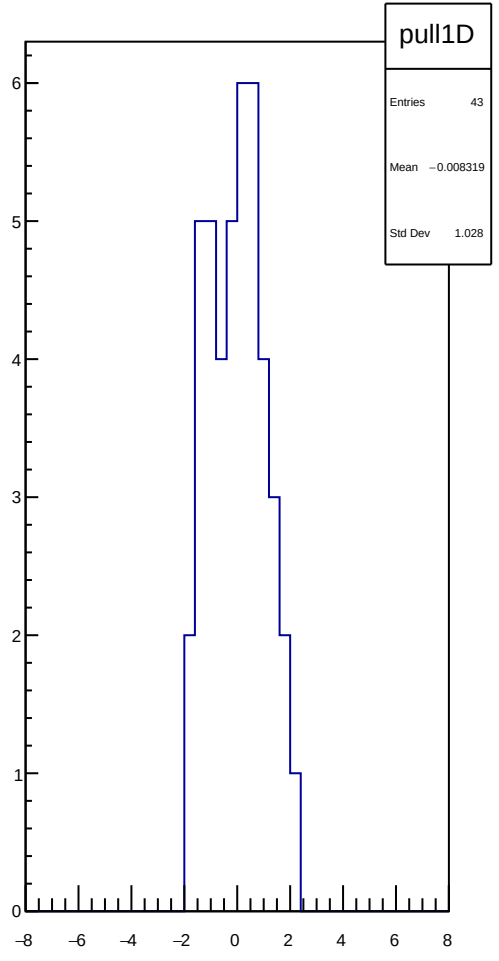

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.6 / 42
p0 82.1 ± 0.2639
86
84
82
80
78
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 926.5
Std Dev 0
1
0.5
0
−0.5
−1

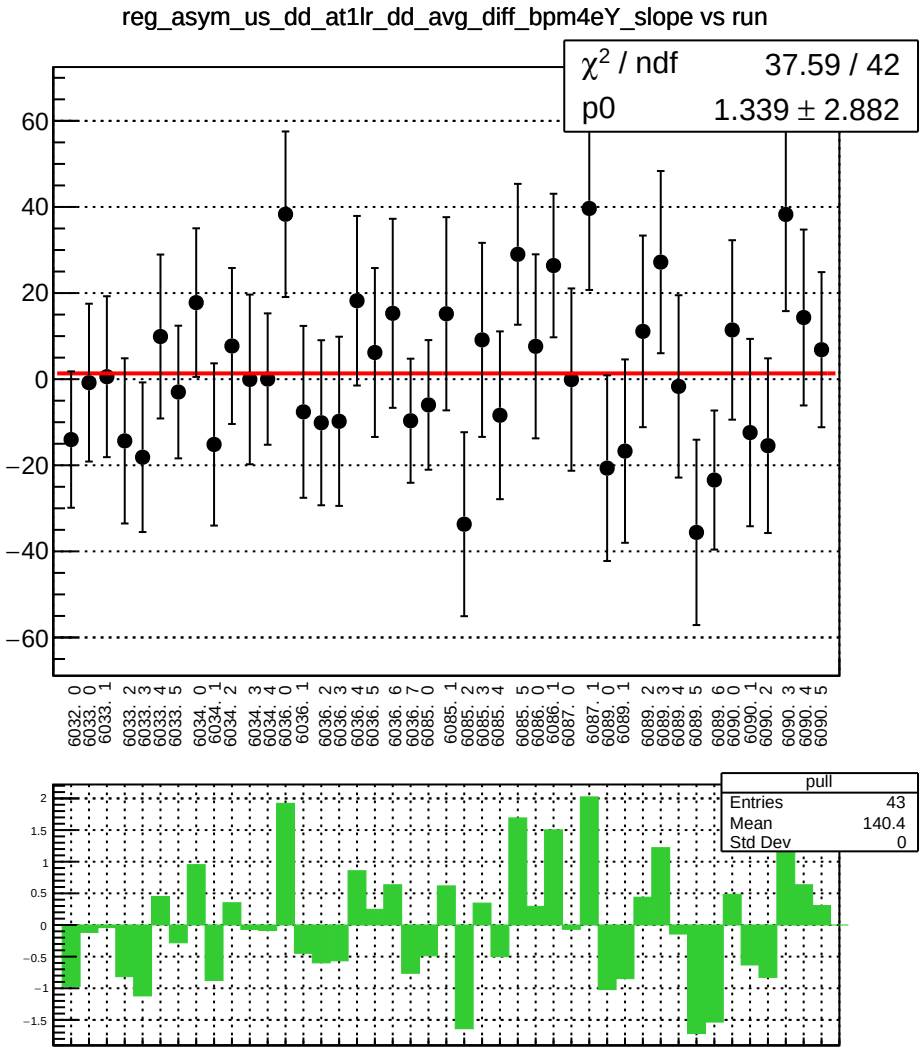

pull1D
Entries 43
Mean 0.004819
Std Dev 0.5826
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

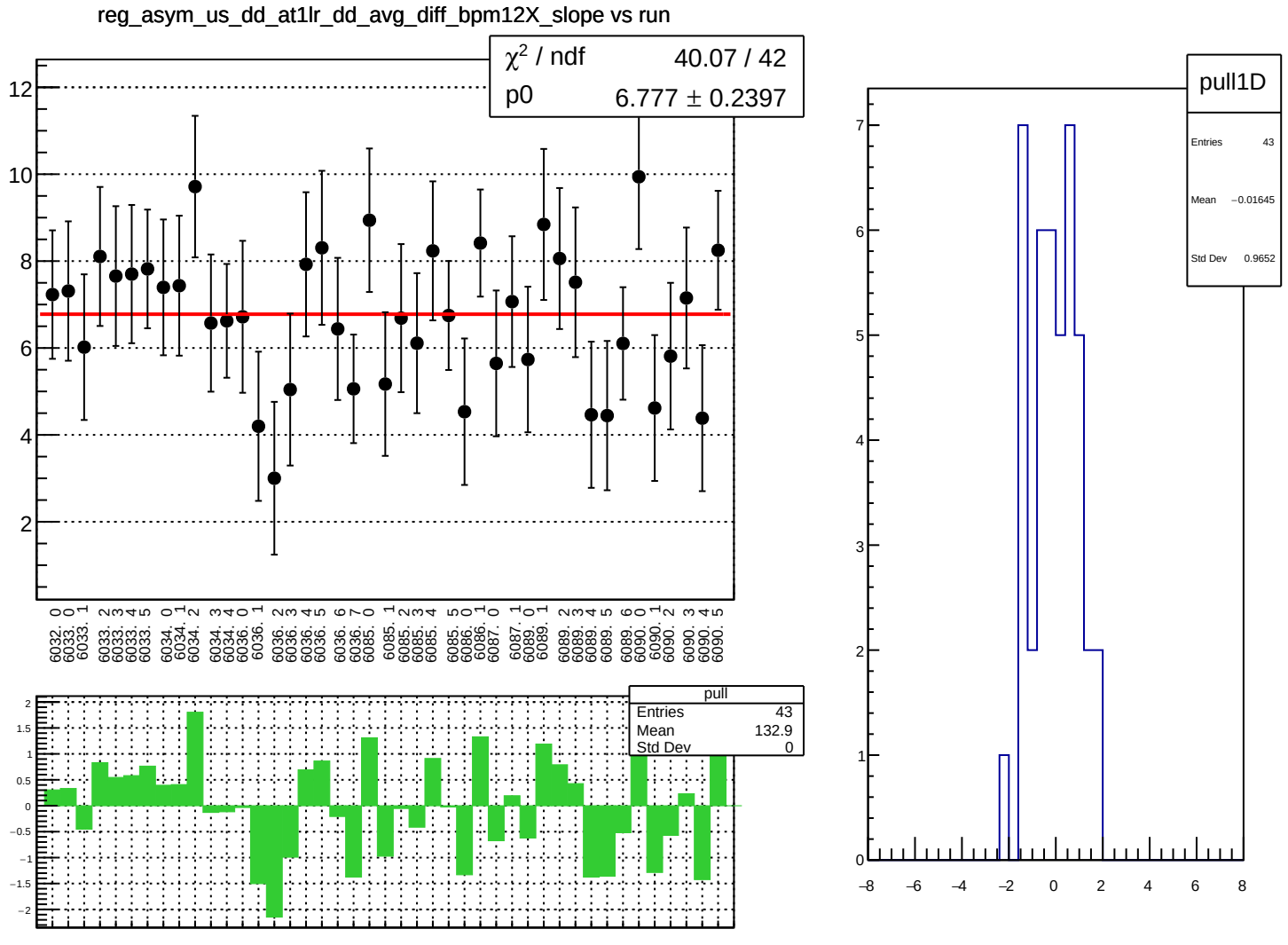

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 44.49 / 42
p0 31.02 ± 2.626
pull
Entries 43
Mean −74.17
Std Dev 0
pull1D
Entries 43
Mean 0.00882
Std Dev 1.017

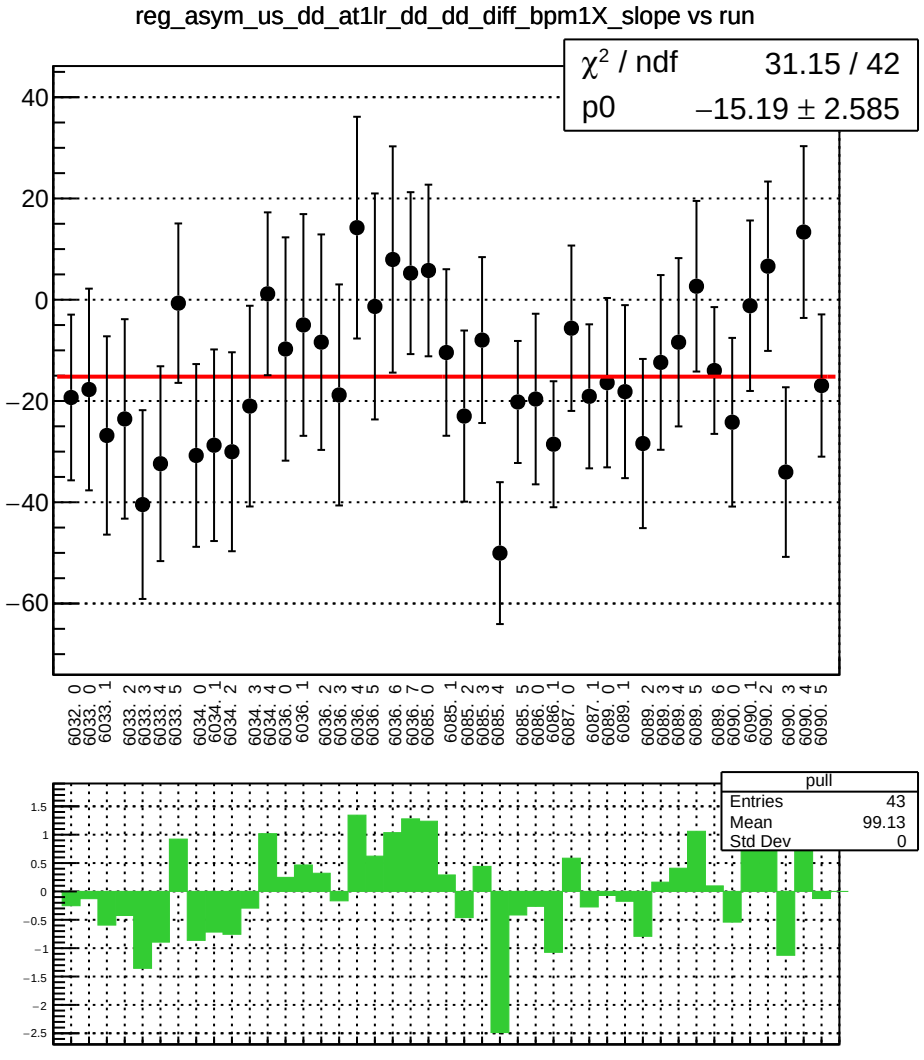

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.04 / 42
p0 −2.73 ± 2.667
pull
Entries 43
Mean 95.31
Std Dev 0
pull1D
Entries 43
Mean −0.02148
Std Dev 0.9404

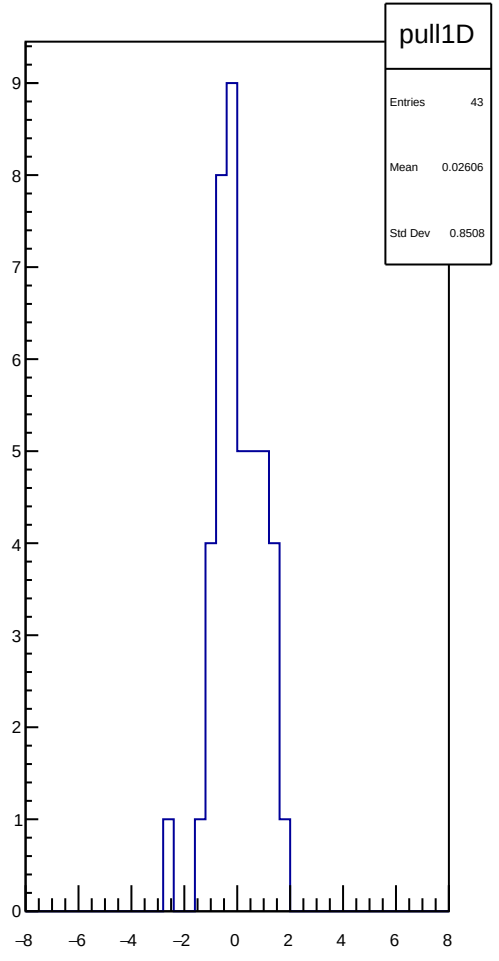

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.48 / 42
p0 −45.97 ± 2.907
pull
Entries 43
Mean −59.56
Std Dev 0

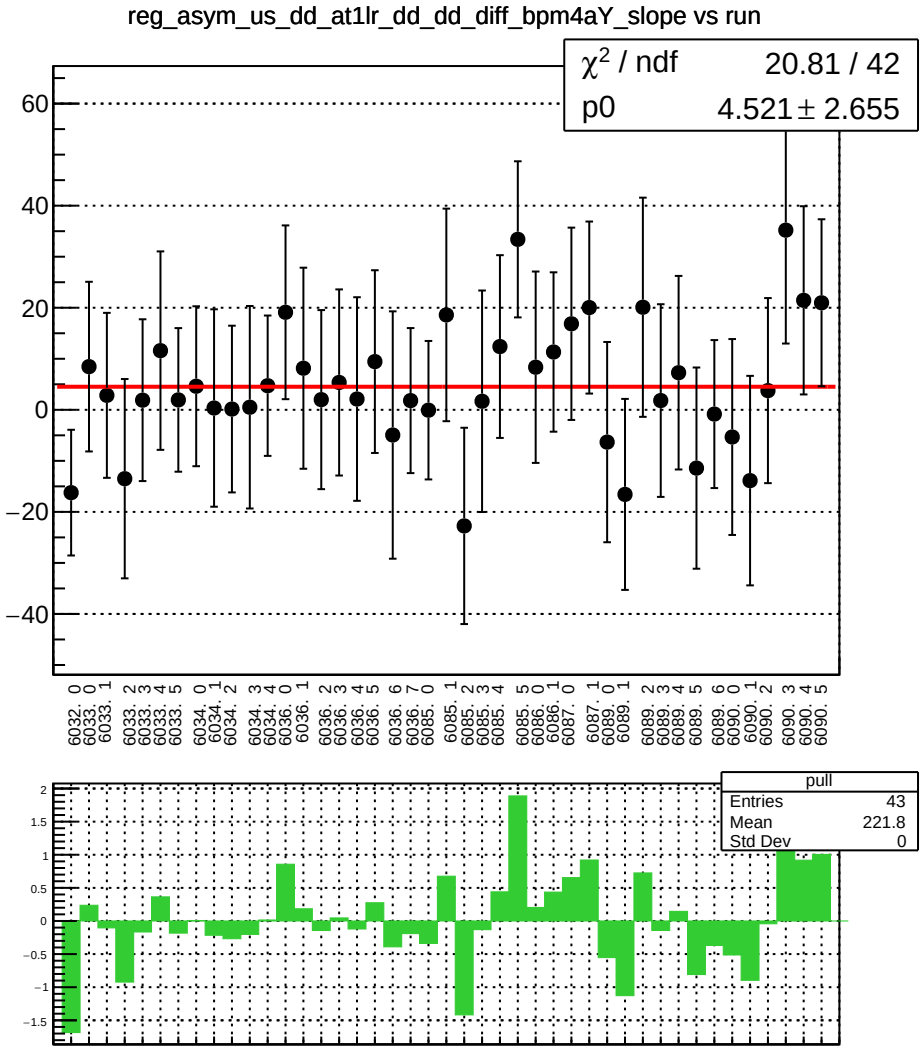

pull1D
Entries 43
Mean −0.008319
Std Dev 1.028

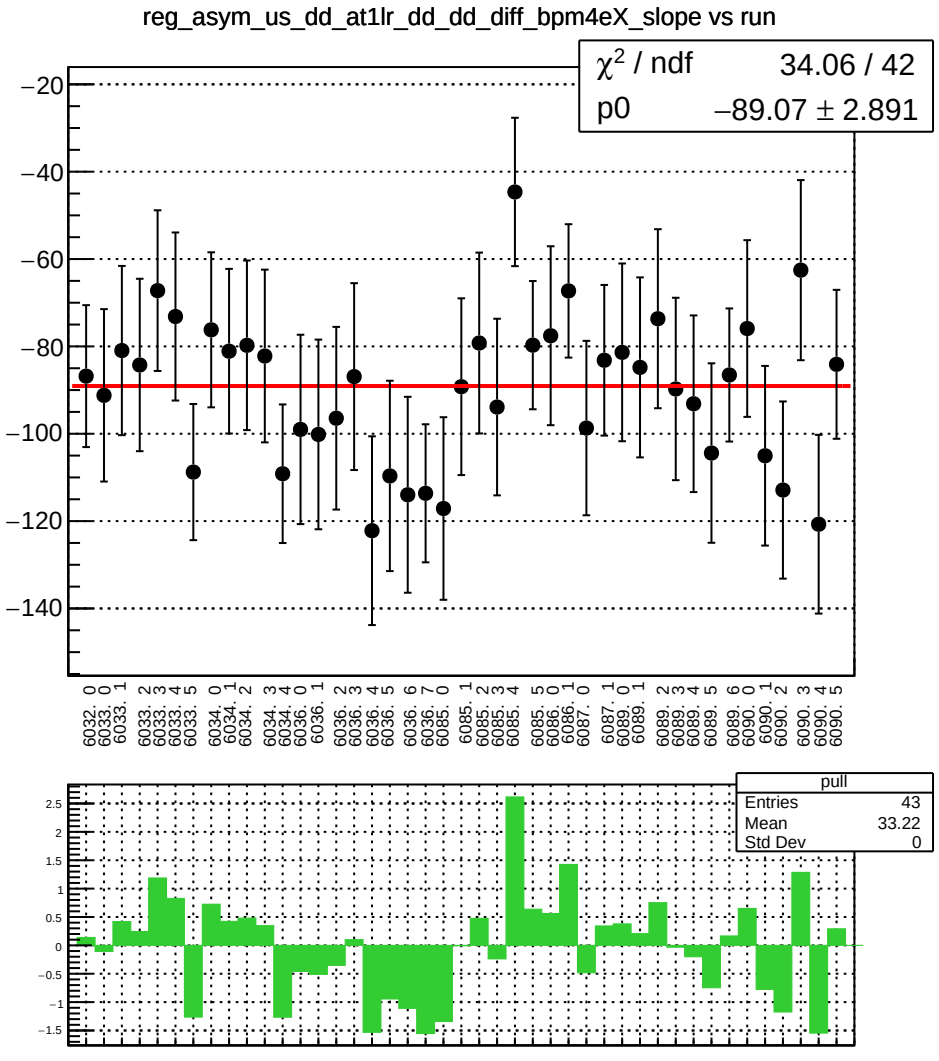

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.59 / 42
p0 1.339 ± 2.882
pull
Entries 43
Mean 140.4
Std Dev 0
pull1D
Entries 43
Mean 0.01064
Std Dev 0.9349

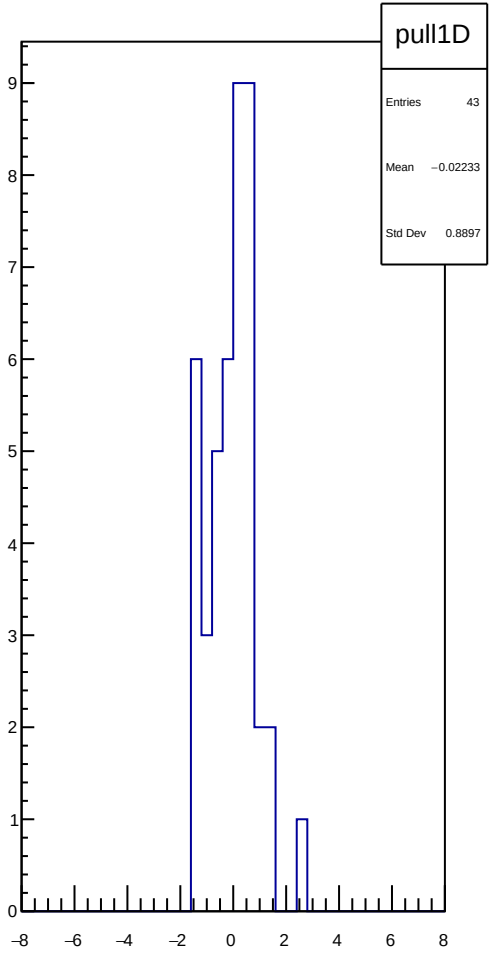

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 40.07 / 42
p0 6.777 ± 0.2397
pull
Entries 43
Mean 132.9
Std Dev 0
pull1D
Entries 43
Mean −0.01645
Std Dev 0.9652

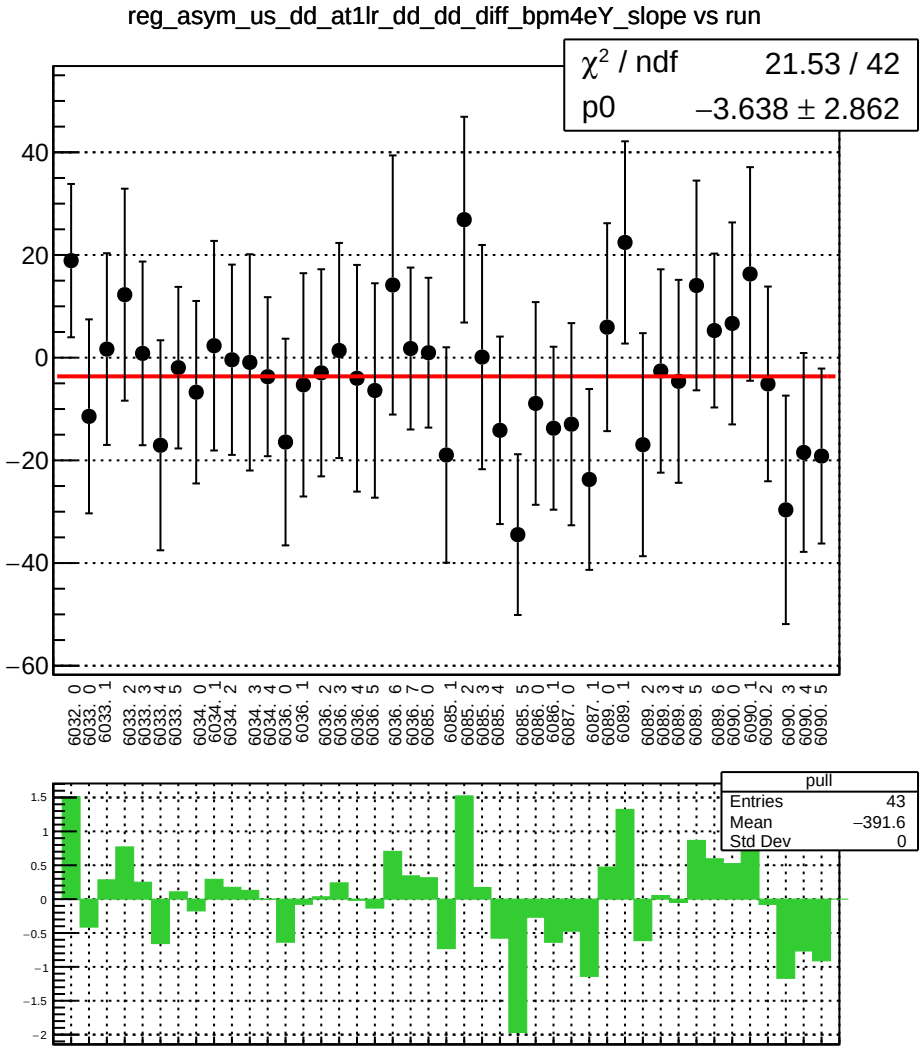

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 31.15 / 42
p0 −15.19 ± 2.585
pull
Entries 43
Mean 99.13
Std Dev 0

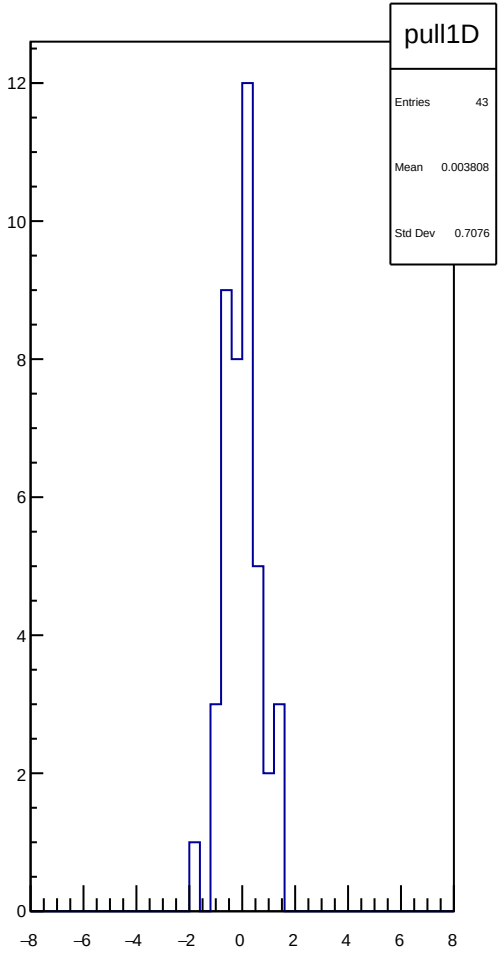

pull1D
Entries 43
Mean 0.02606
Std Dev 0.8508

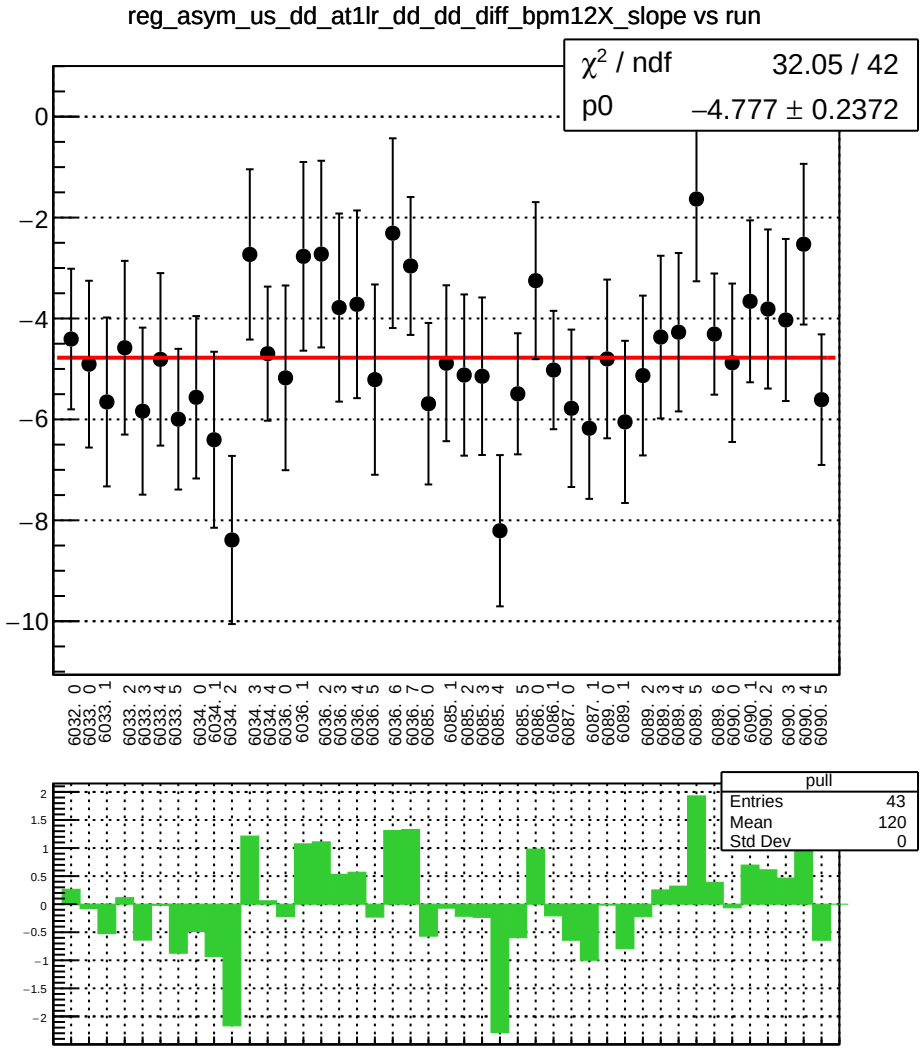

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.81 / 42
p0 4.521 ± 2.655
pull
Entries 43
Mean 221.8
Std Dev 0
pull1D
Entries 43
Mean 0.01036
Std Dev 0.6956

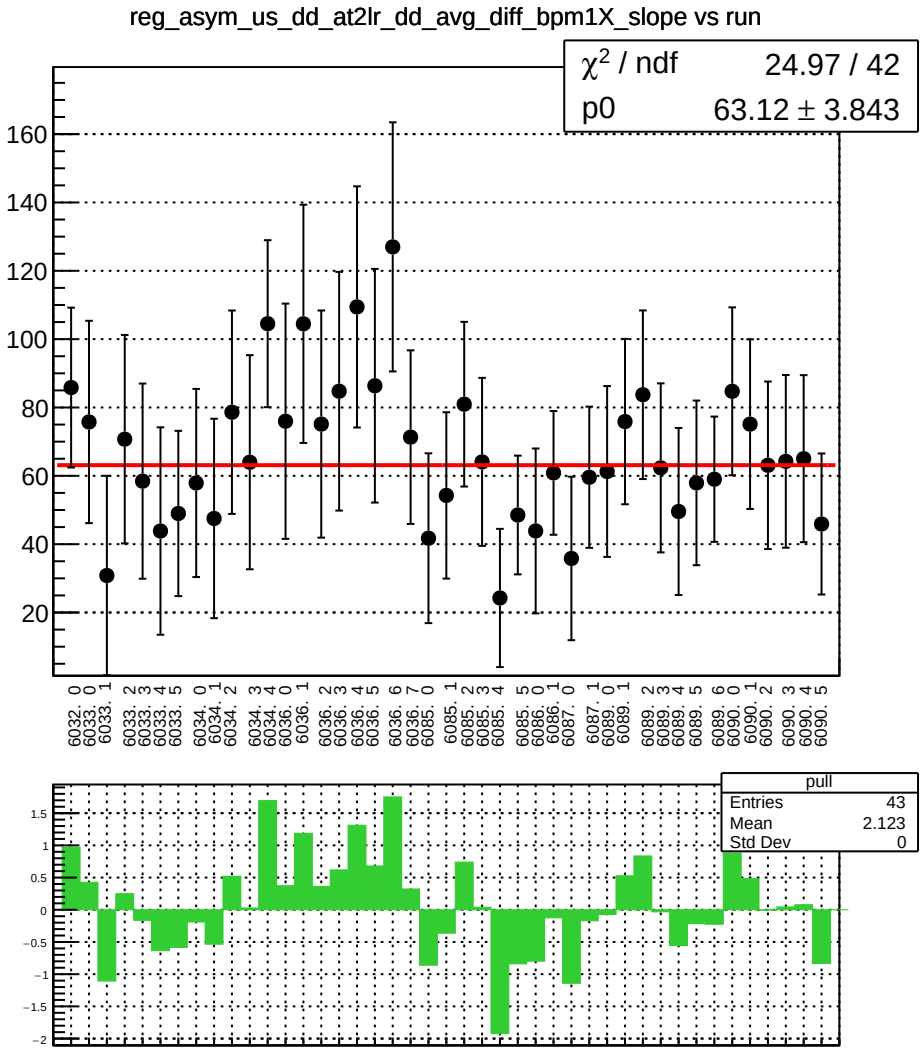

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.06 / 42
p0 −89.07 ± 2.891
pull
Entries 43
Mean 33.22
Std Dev 0

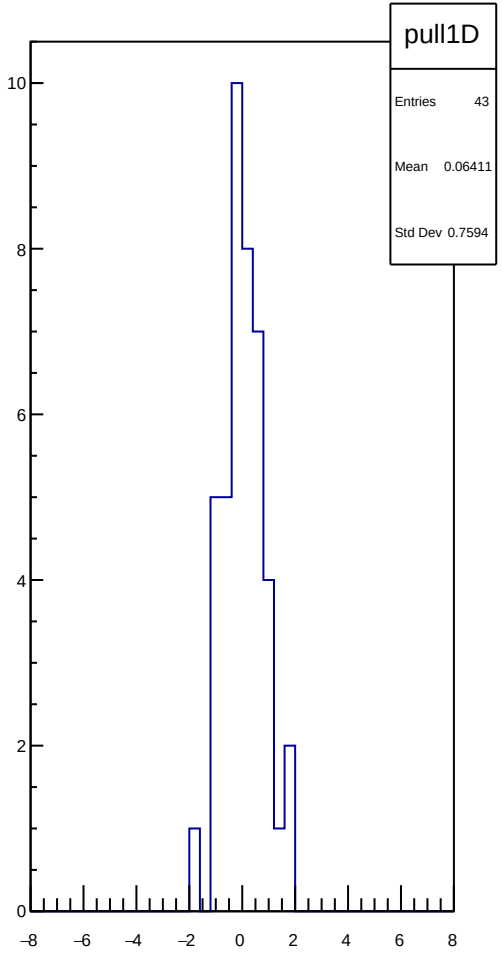

pull1D
Entries 43
Mean −0.02233
Std Dev 0.8897

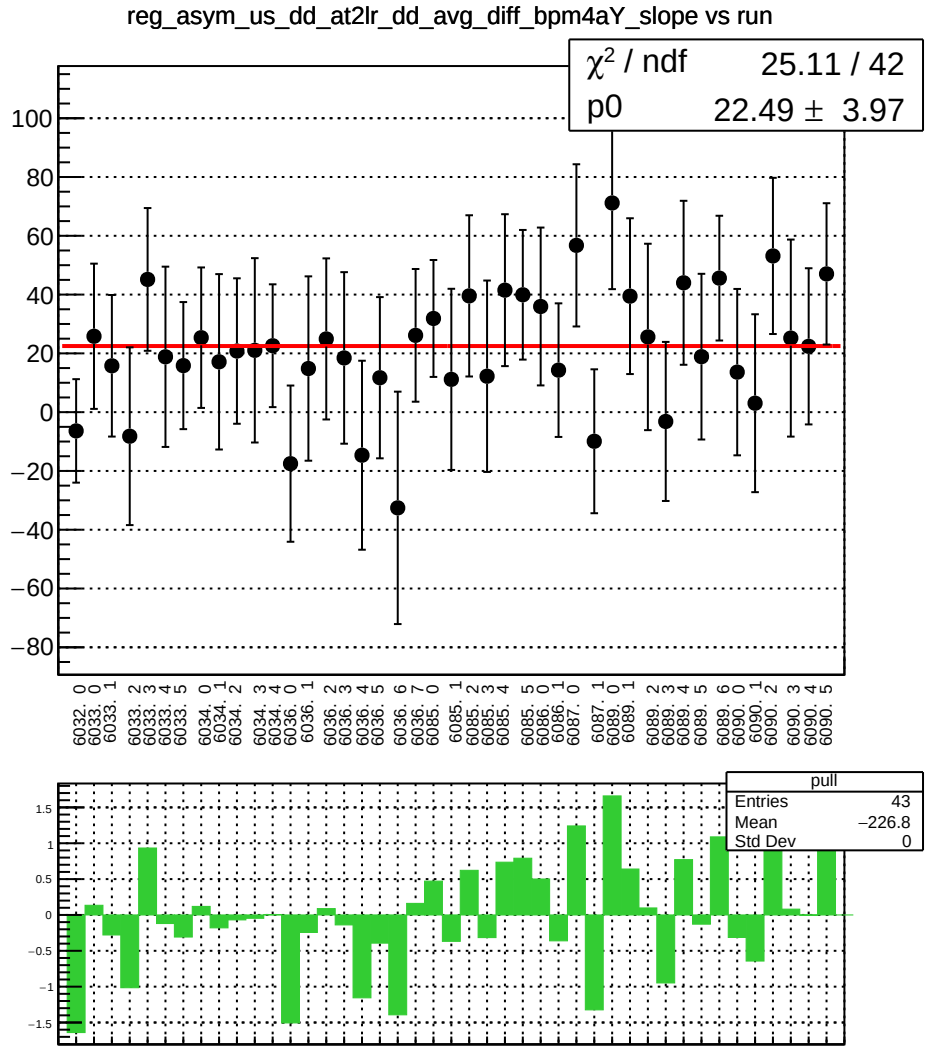

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.53 / 42
p0 −3.638 ± 2.862
pull
Entries 43
Mean −391.6
Std Dev 0

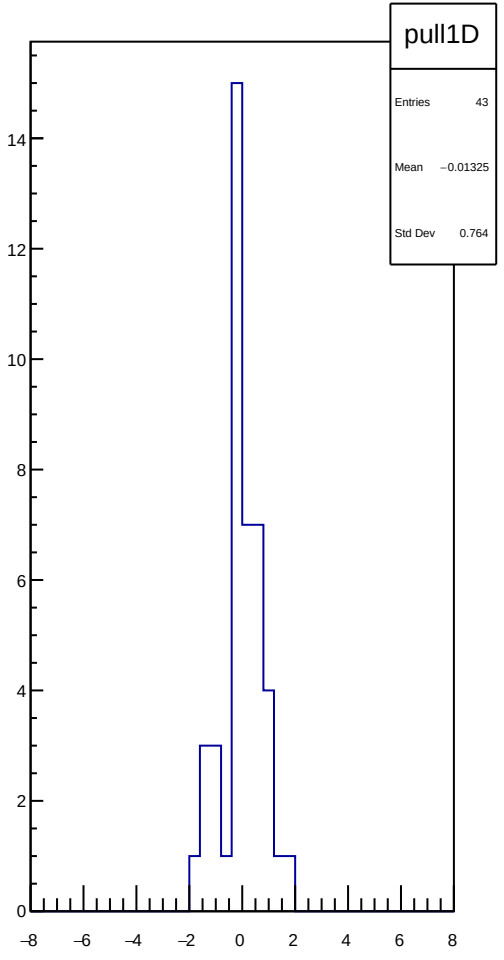

pull1D
Entries 43
Mean 0.003808
Std Dev 0.7076

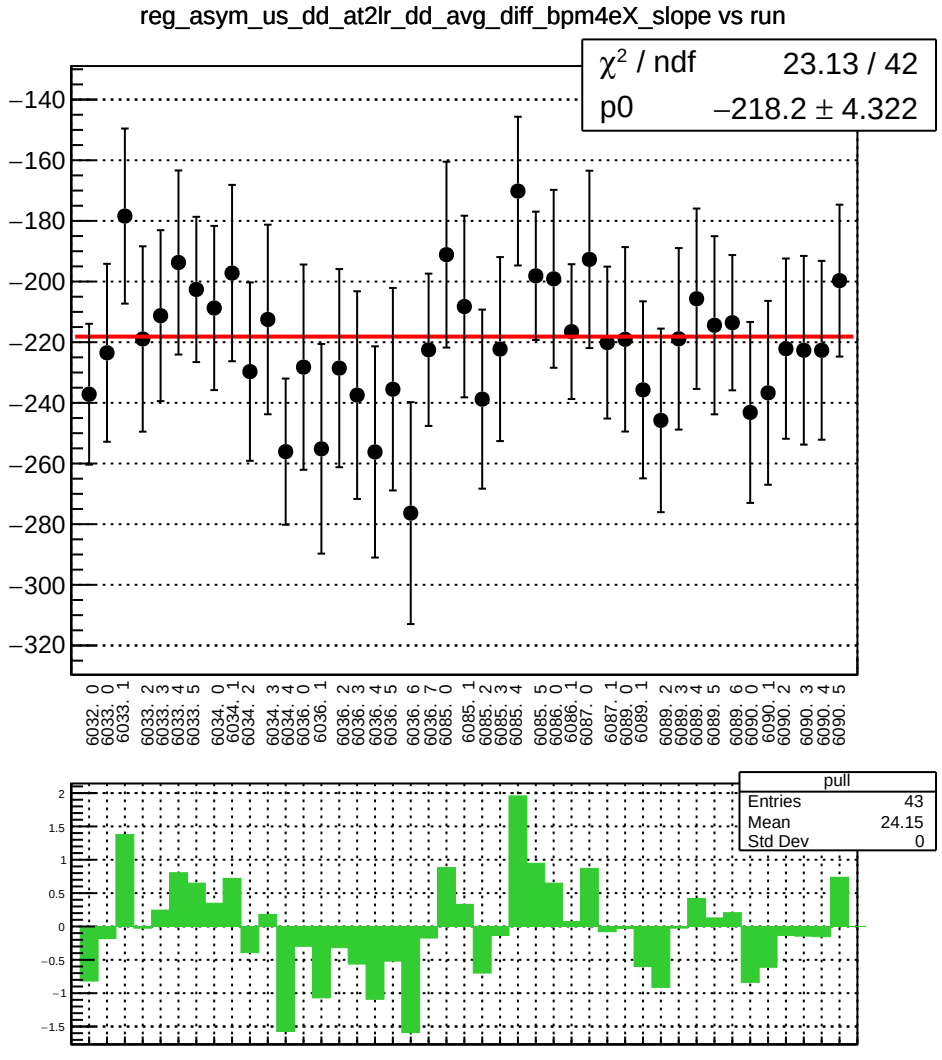

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 32.05 / 42
p0 −4.777 ± 0.2372
pull
Entries 43
Mean 120
Std Dev 0
pull1D
Entries 43
Mean 0.02121
Std Dev 0.8631

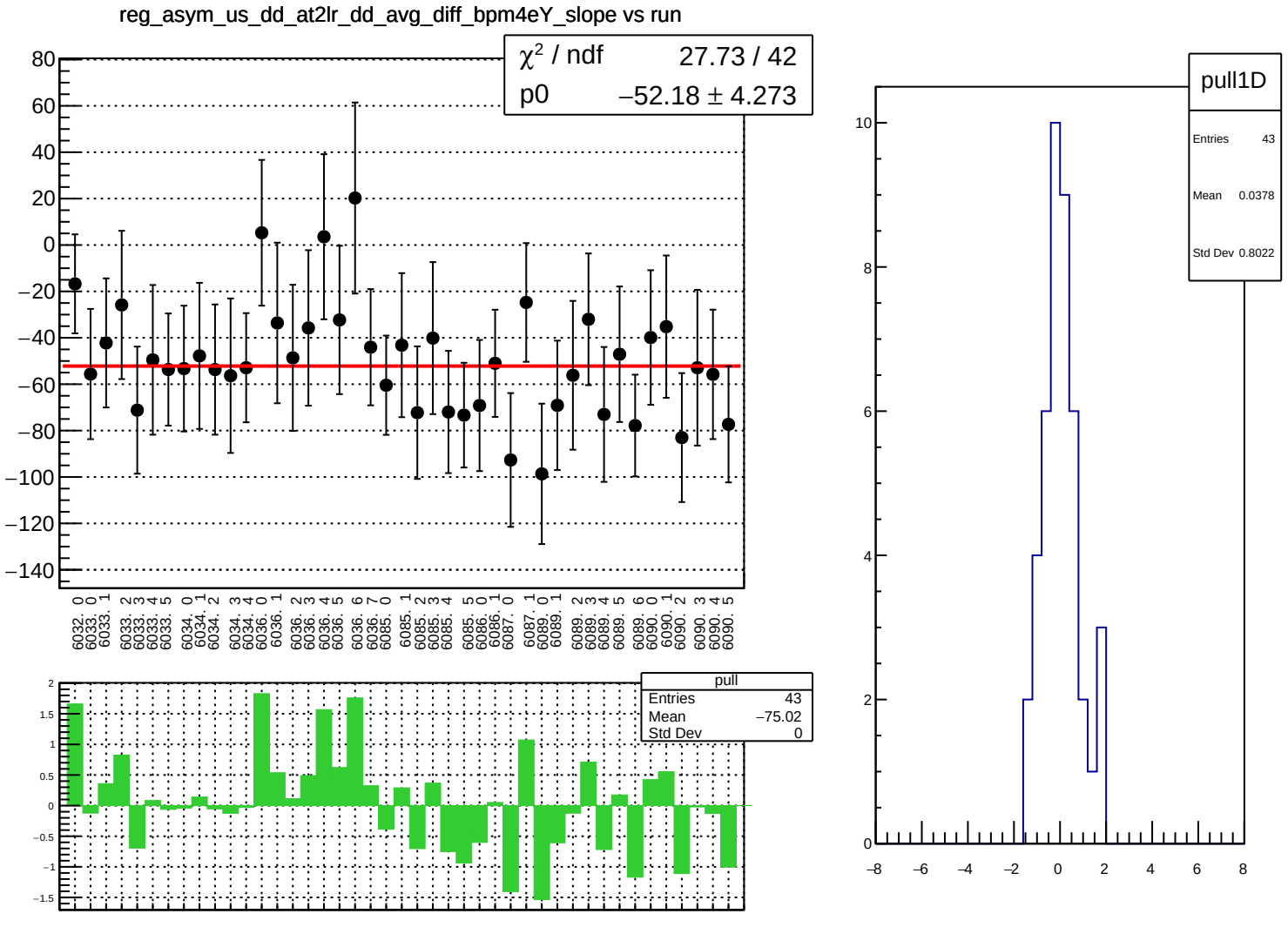

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 24.97 / 42
p0 63.12 ± 3.843
pull
Entries 43
Mean 2.123
Std Dev 0


pull1D
Entries 43
Mean 0.06411
Std Dev 0.7594

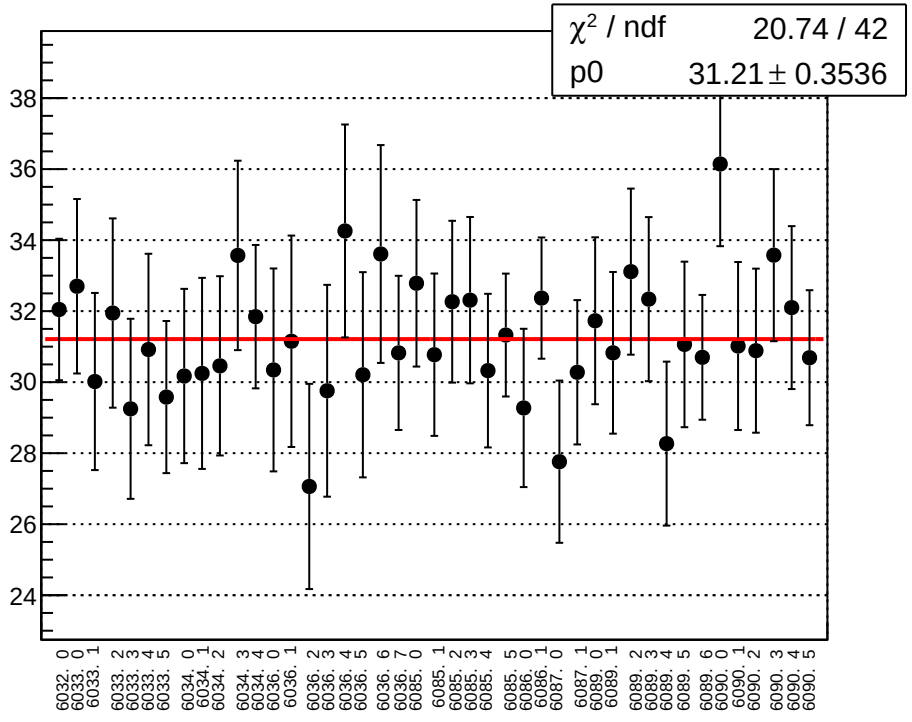

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.11 / 42
p0 22.49 ± 3.97
pull
Entries 43
Mean −226.8
Std Dev 0

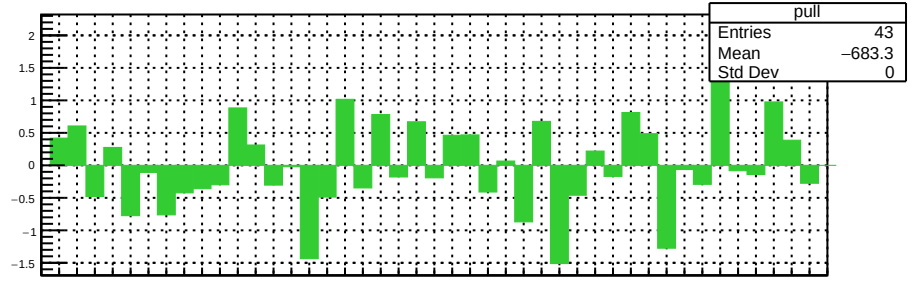

pull1D
Entries 43
Mean −0.01325
Std Dev 0.764

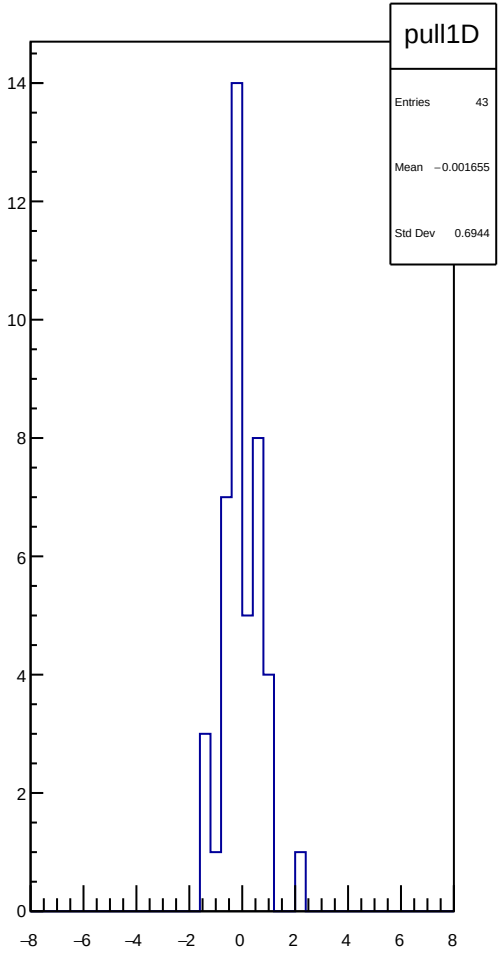

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.13 / 42
p0 −218.2 ± 4.322
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.03353
Std Dev 0.7327
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

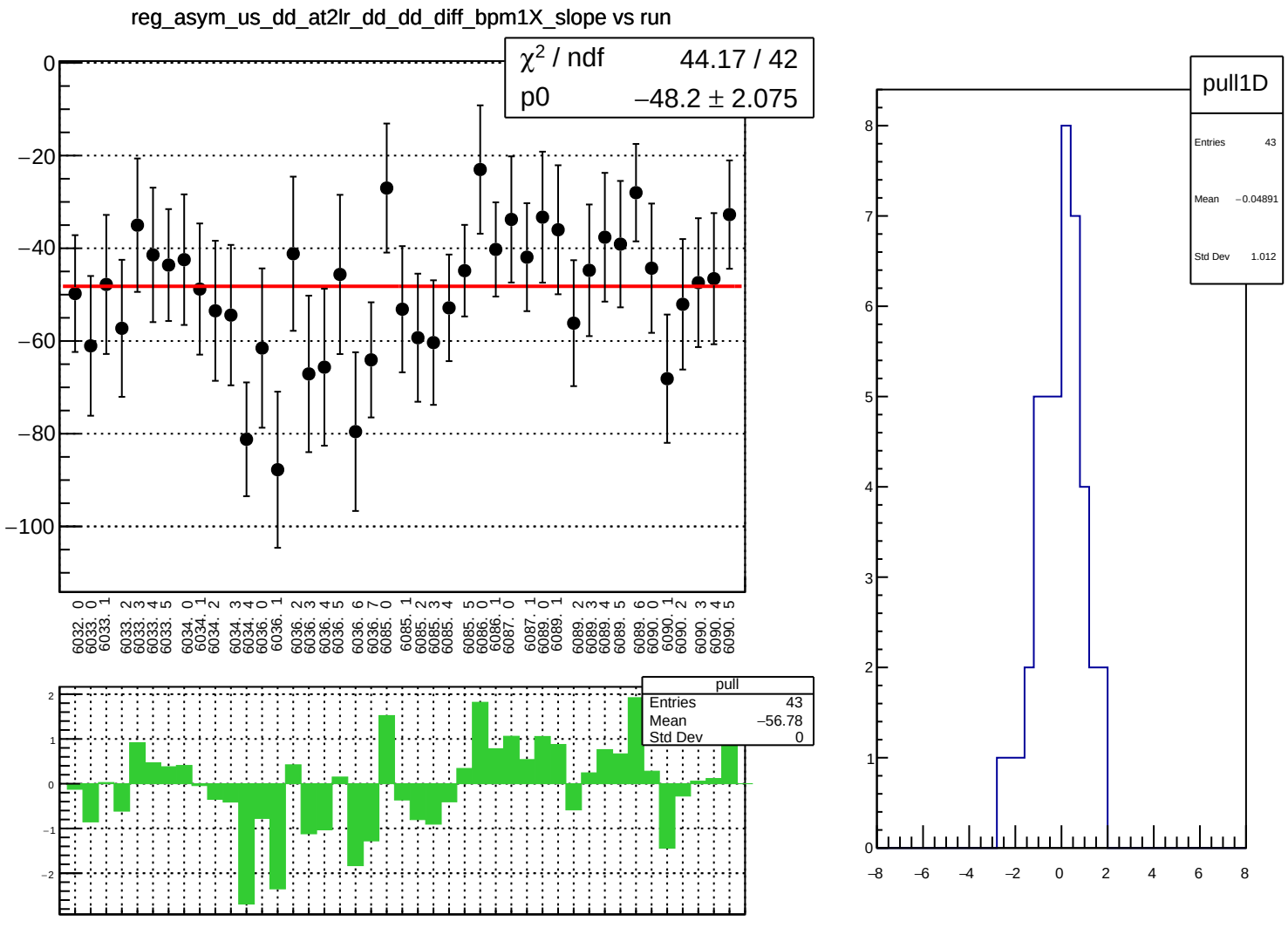

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.73 / 42
p0 −52.18 ± 4.273
pull
Entries 43
Mean −75.02
Std Dev 0
pull1D
Entries 43
Mean 0.0378
Std Dev 0.8022

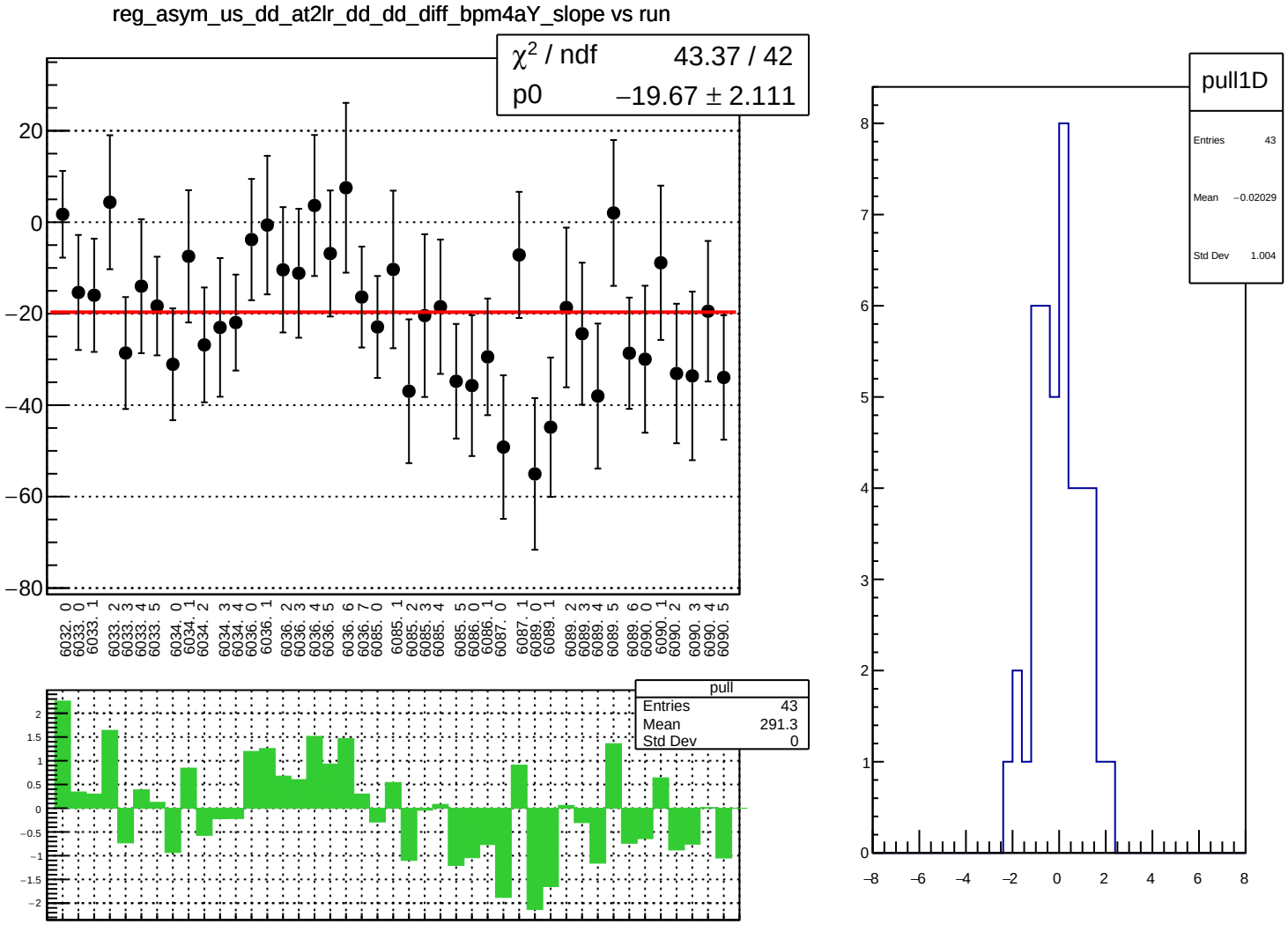
reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run

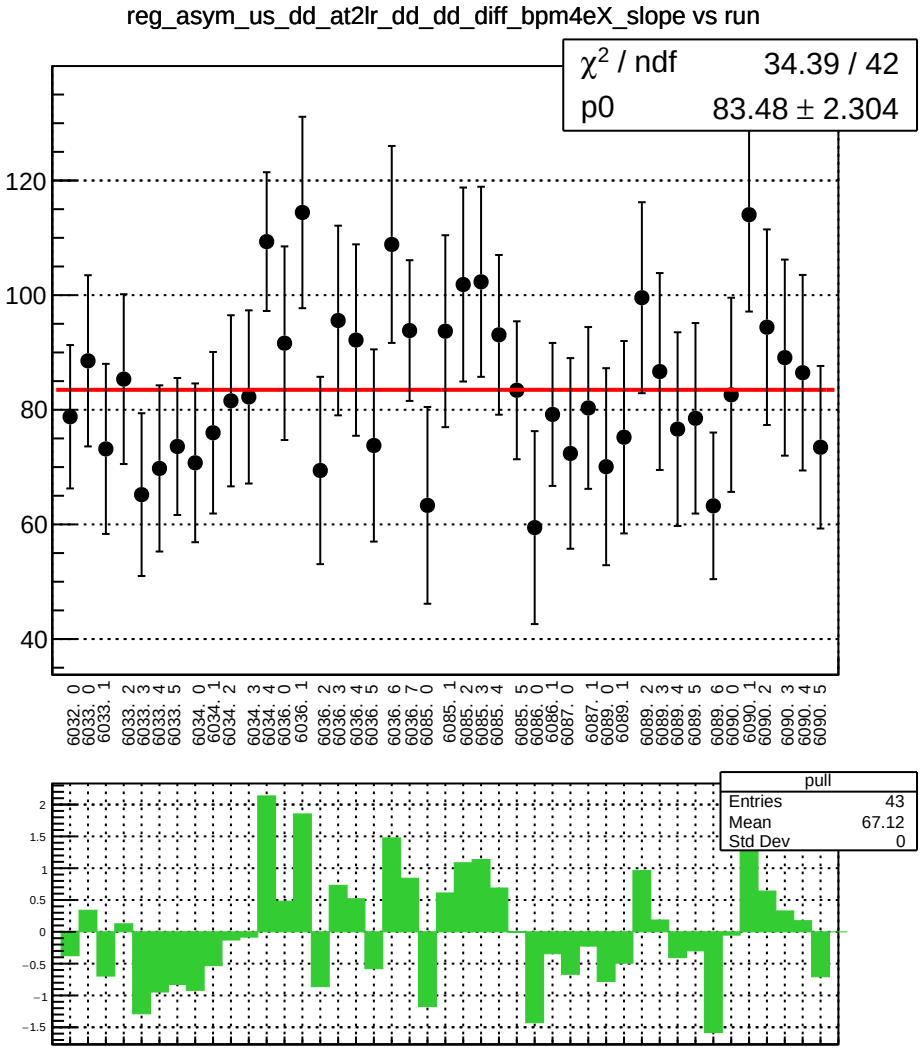


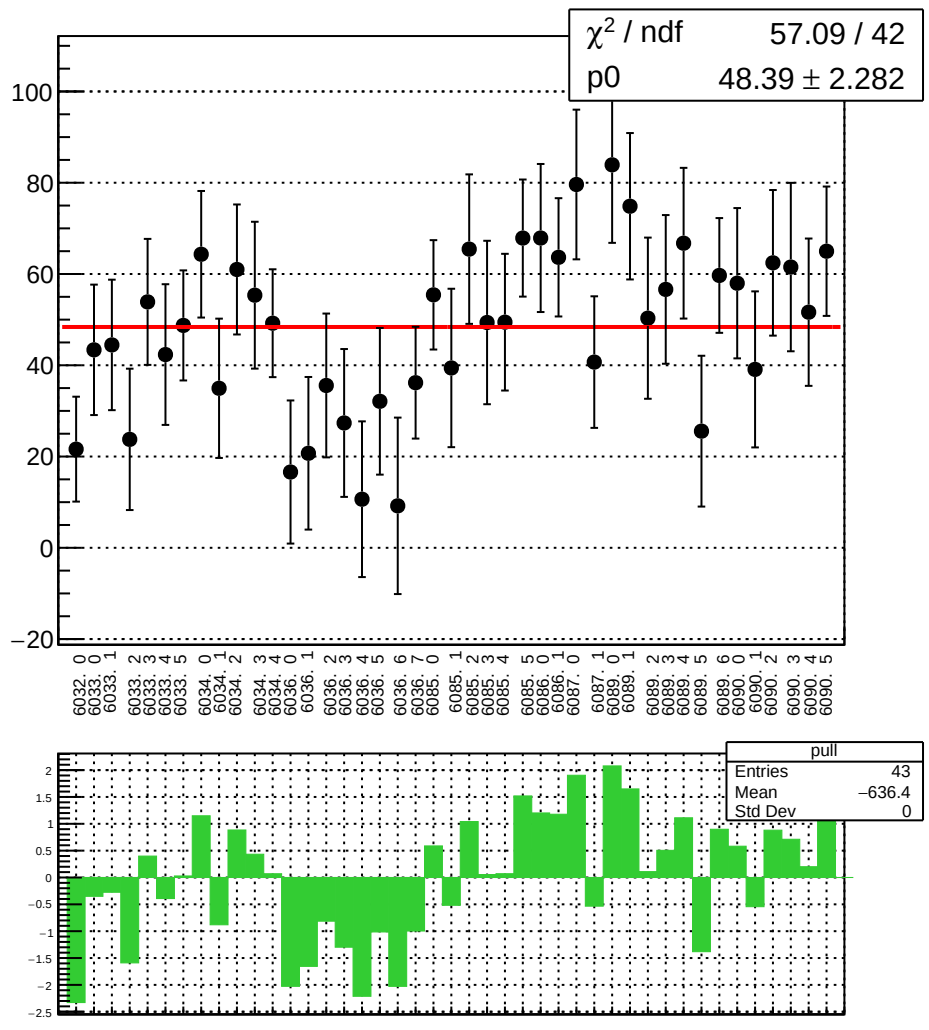


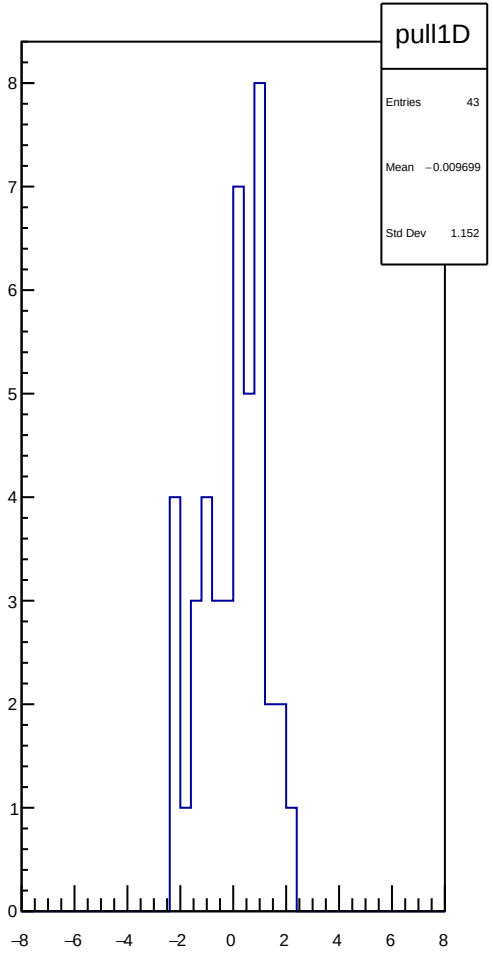


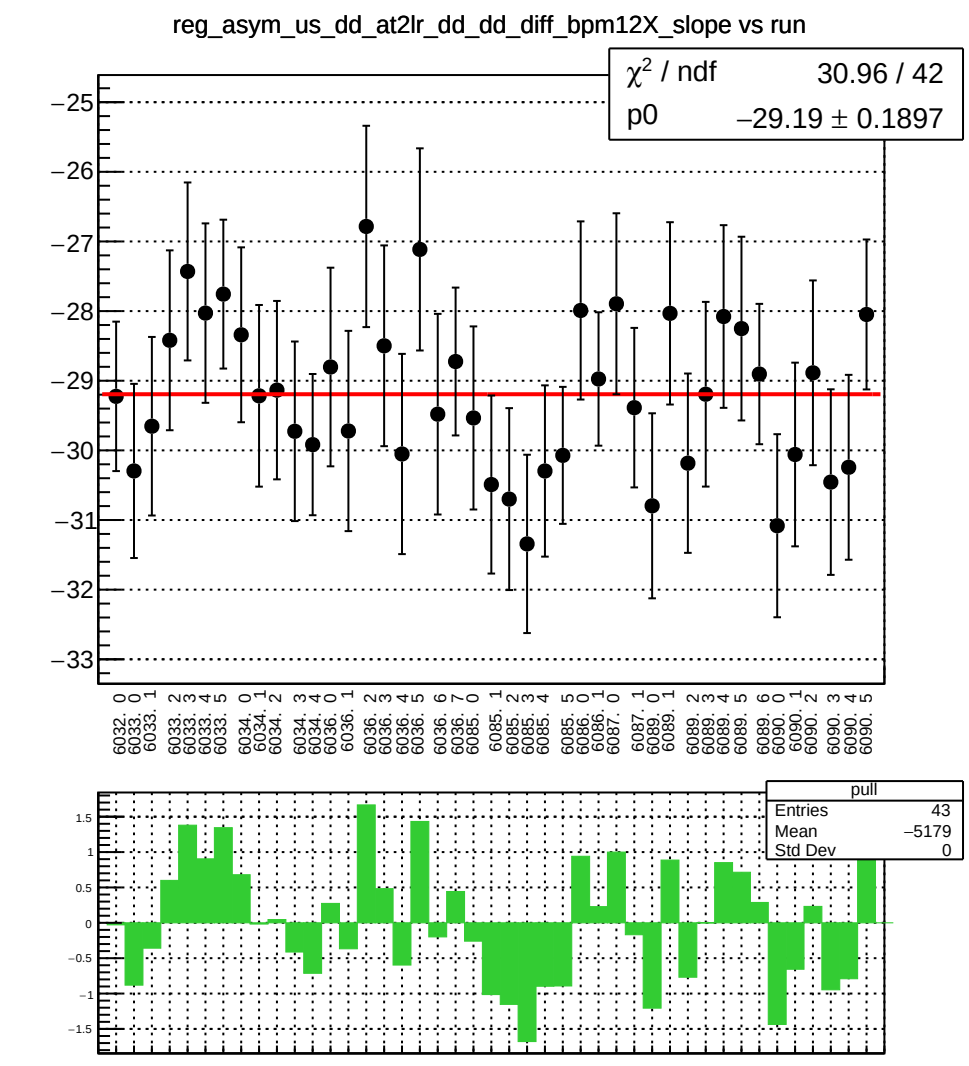

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 44.17 / 42
p0 −48.2 ± 2.075
0
−20
−40
−60
−80
−100
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −56.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04891
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

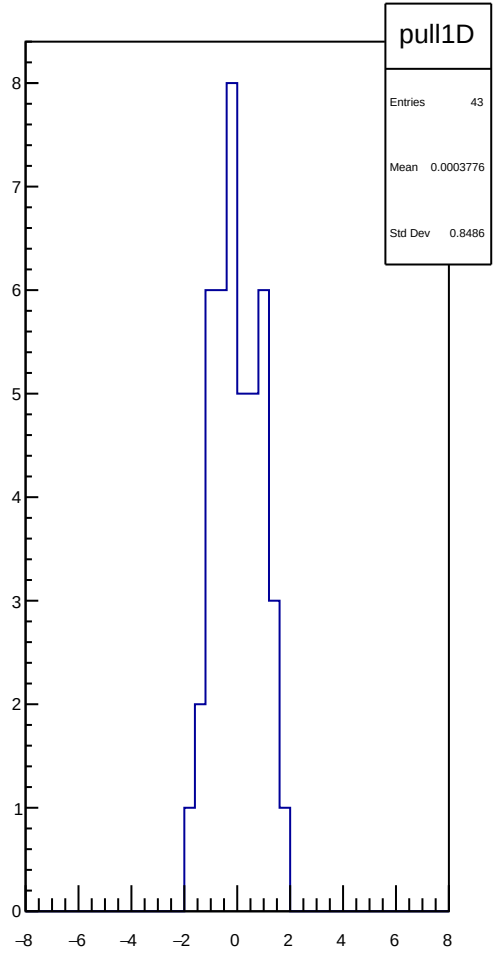

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.37 / 42
p0 −19.67 ± 2.111
pull
Entries 43
Mean 291.3
Std Dev 0
pull1D
Entries 43
Mean −0.02029
Std Dev 1.004

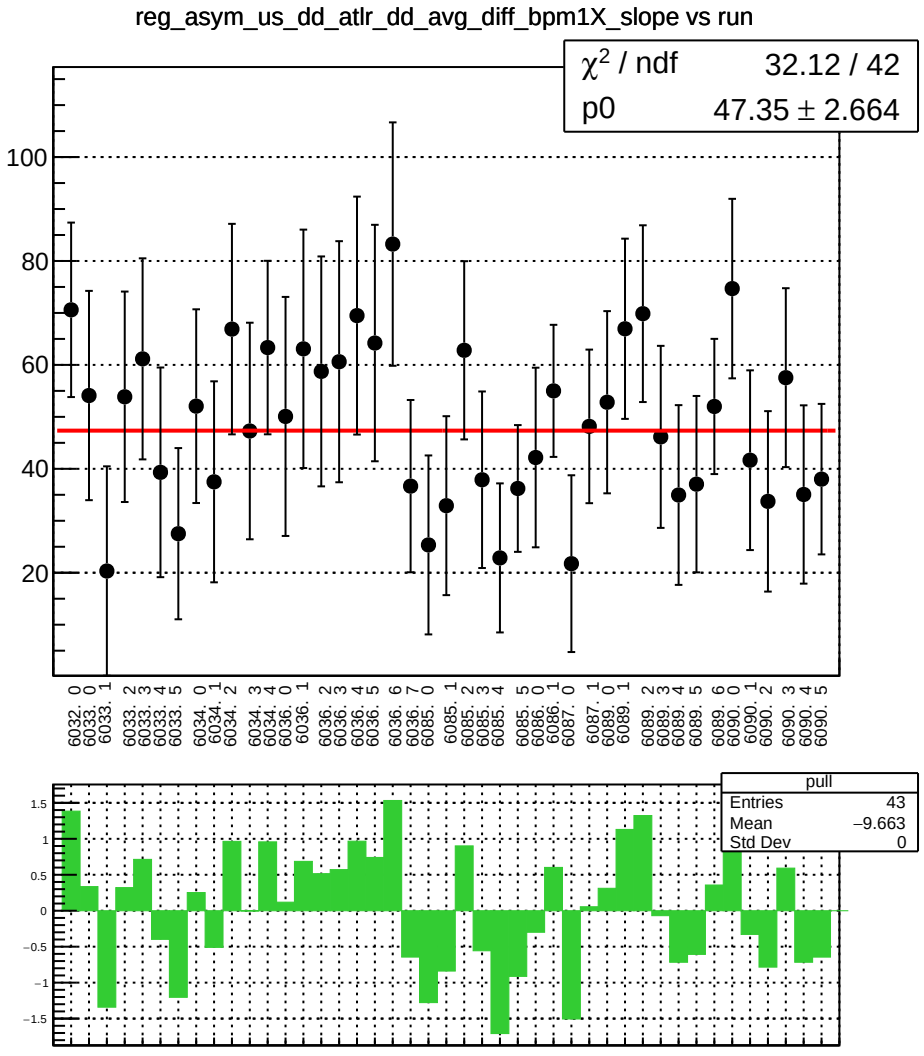

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.39 / 42
p0 83.48 ± 2.304
120
100
80
60
40
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 67.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.017
Std Dev 0.8941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

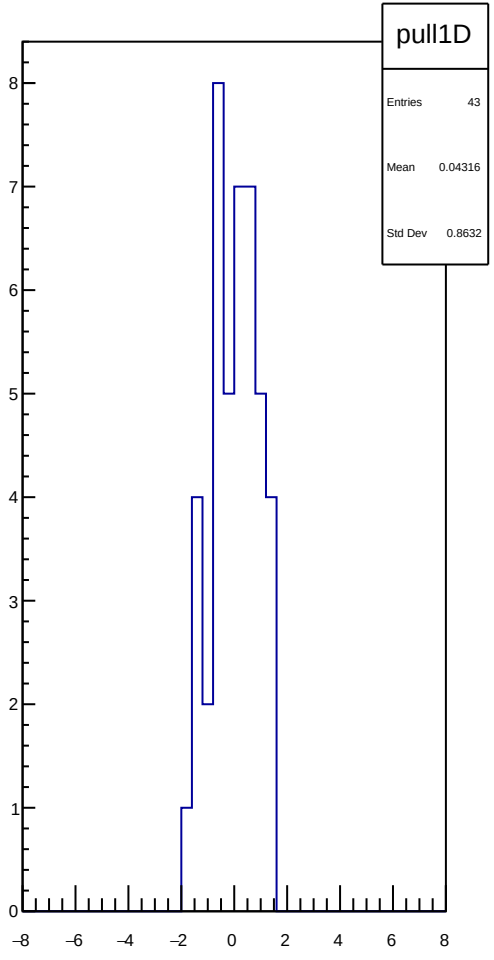

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.09 / 42
p0 48.39 ± 2.282
pull
Entries 43
Mean −636.4
Std Dev 0

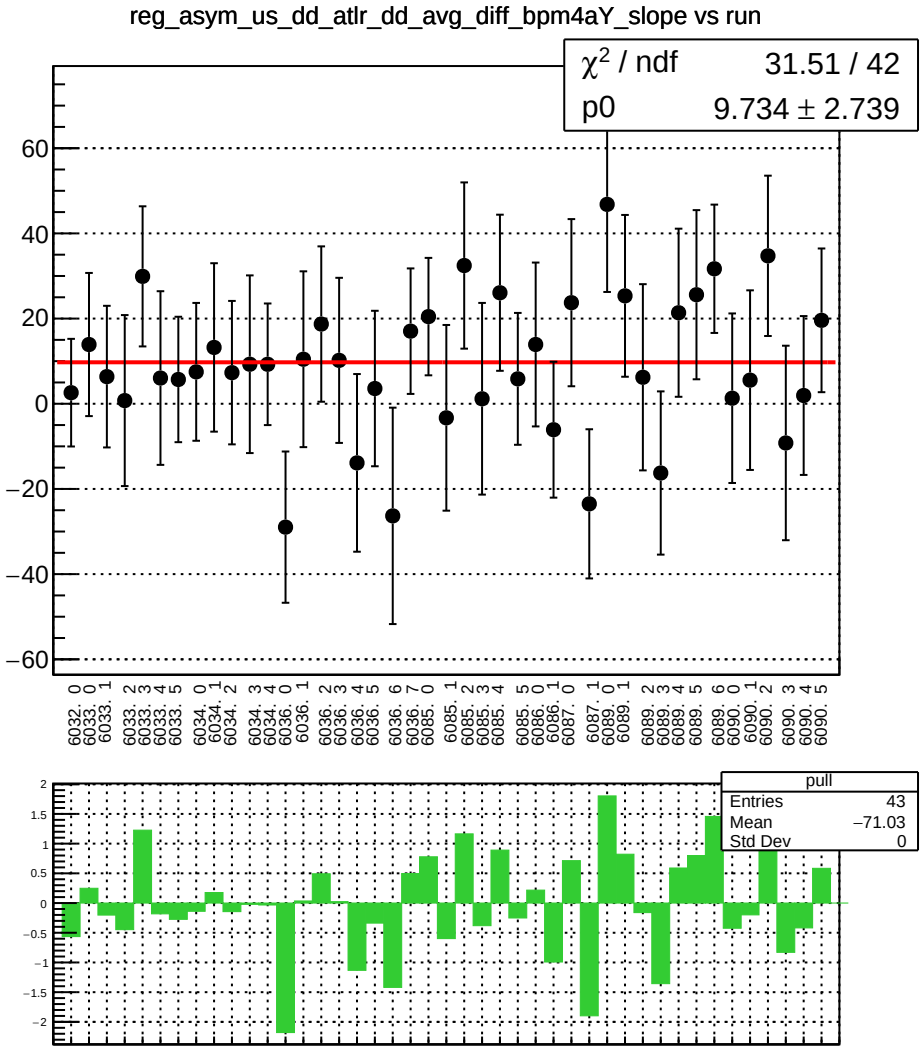

pull1D
Entries 43
Mean −0.009699
Std Dev 1.152

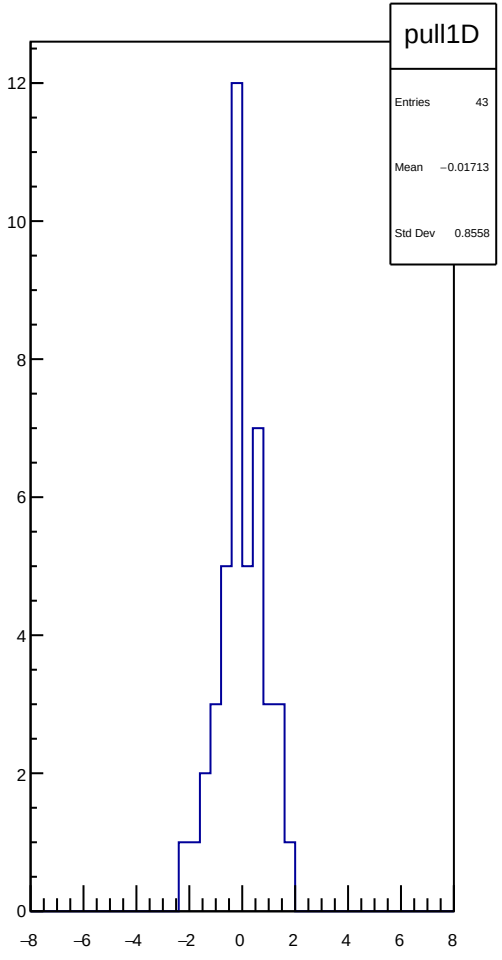

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 30.96 / 42
p0 −29.19 ± 0.1897
pull
Entries 43
Mean −5179
Std Dev 0

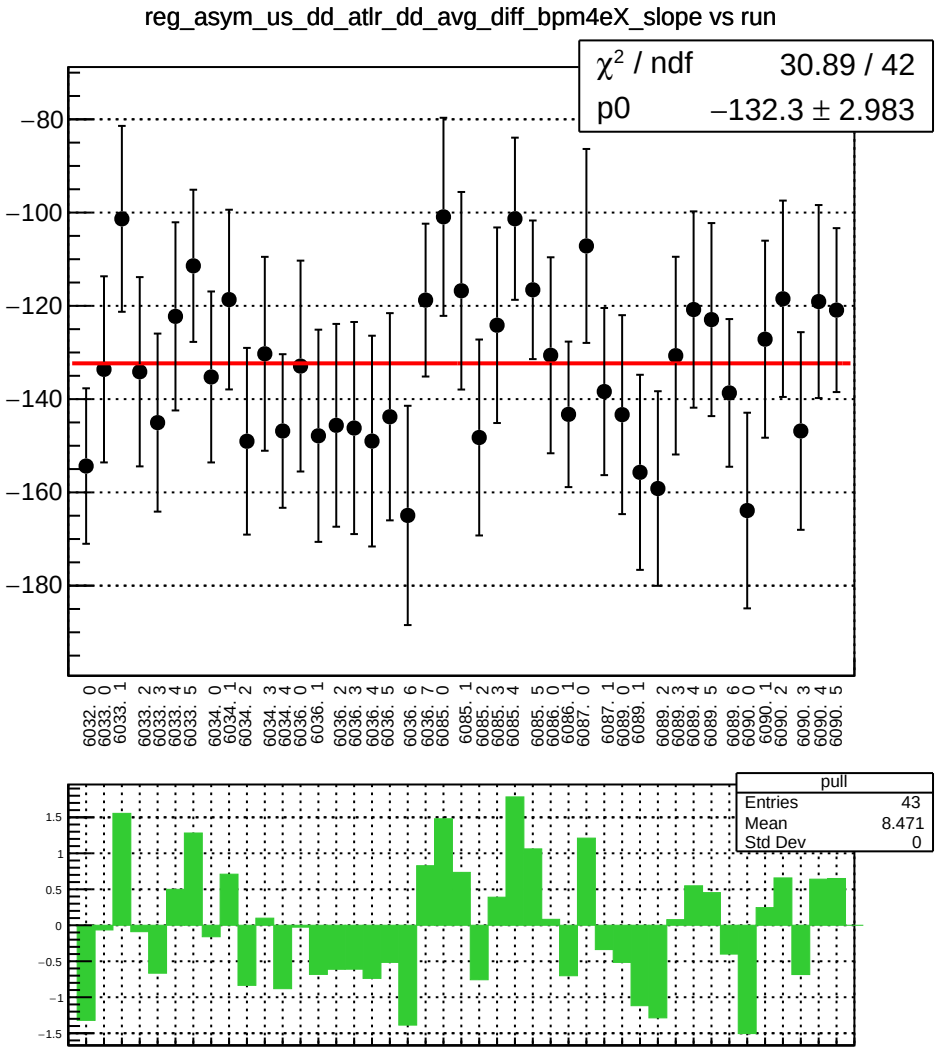

pull1D
Entries 43
Mean 0.0003776
Std Dev 0.8486

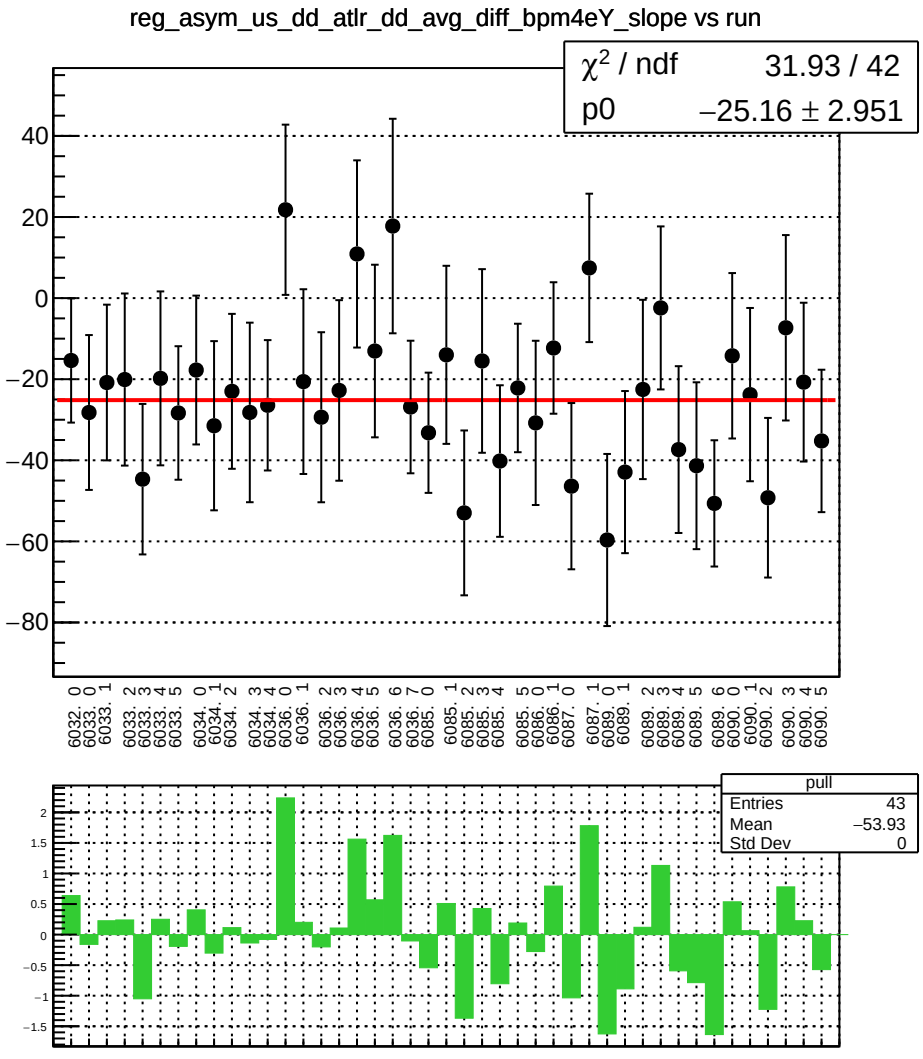

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 32.12 / 42
p0 47.35 ± 2.664
pull
Entries 43
Mean −9.663
Std Dev 0

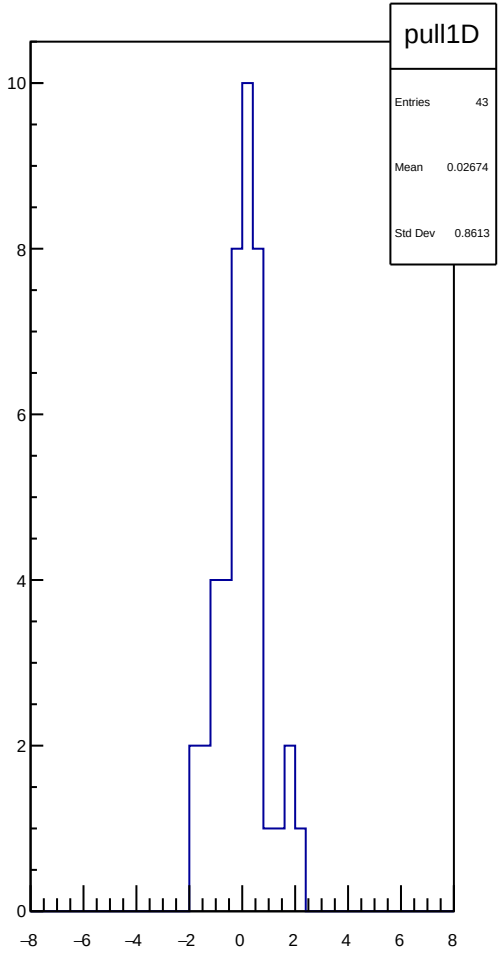

pull1D
Entries 43
Mean 0.04316
Std Dev 0.8632

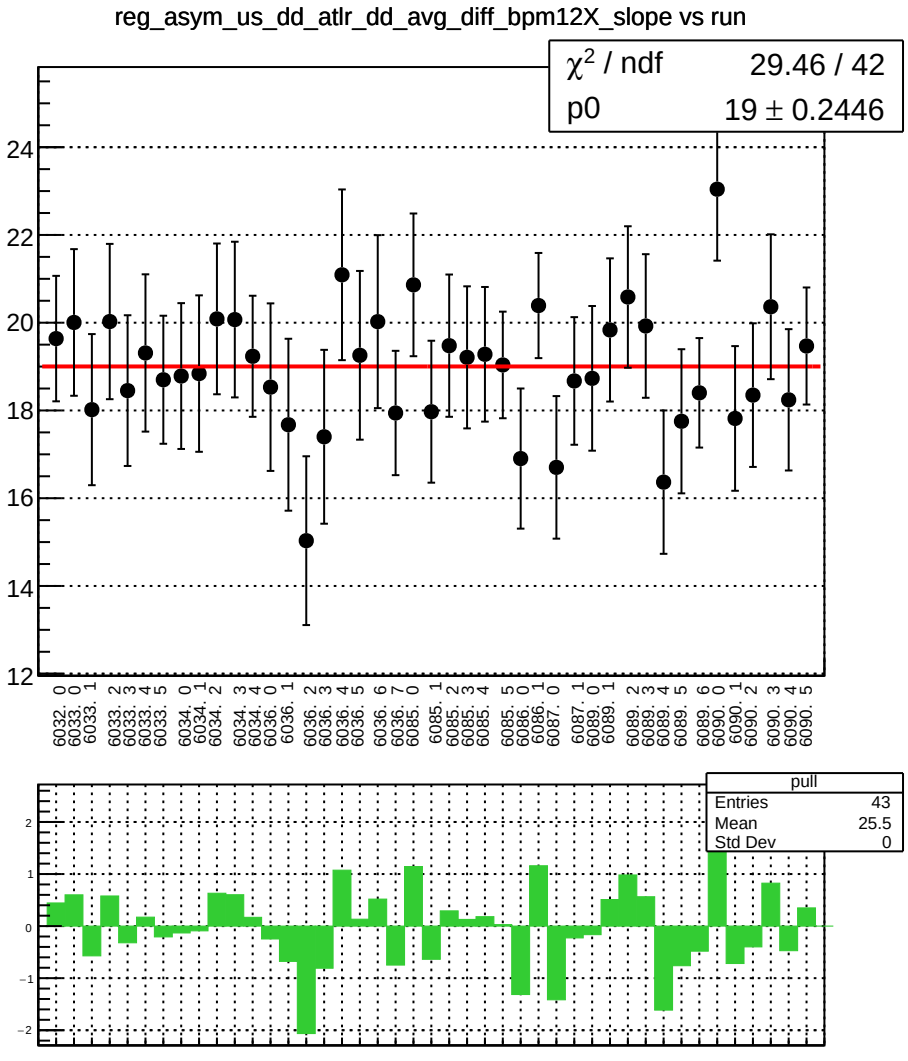

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.51 / 42
p0 9.734 ± 2.739
pull
Entries 43
Mean −71.03
Std Dev 0

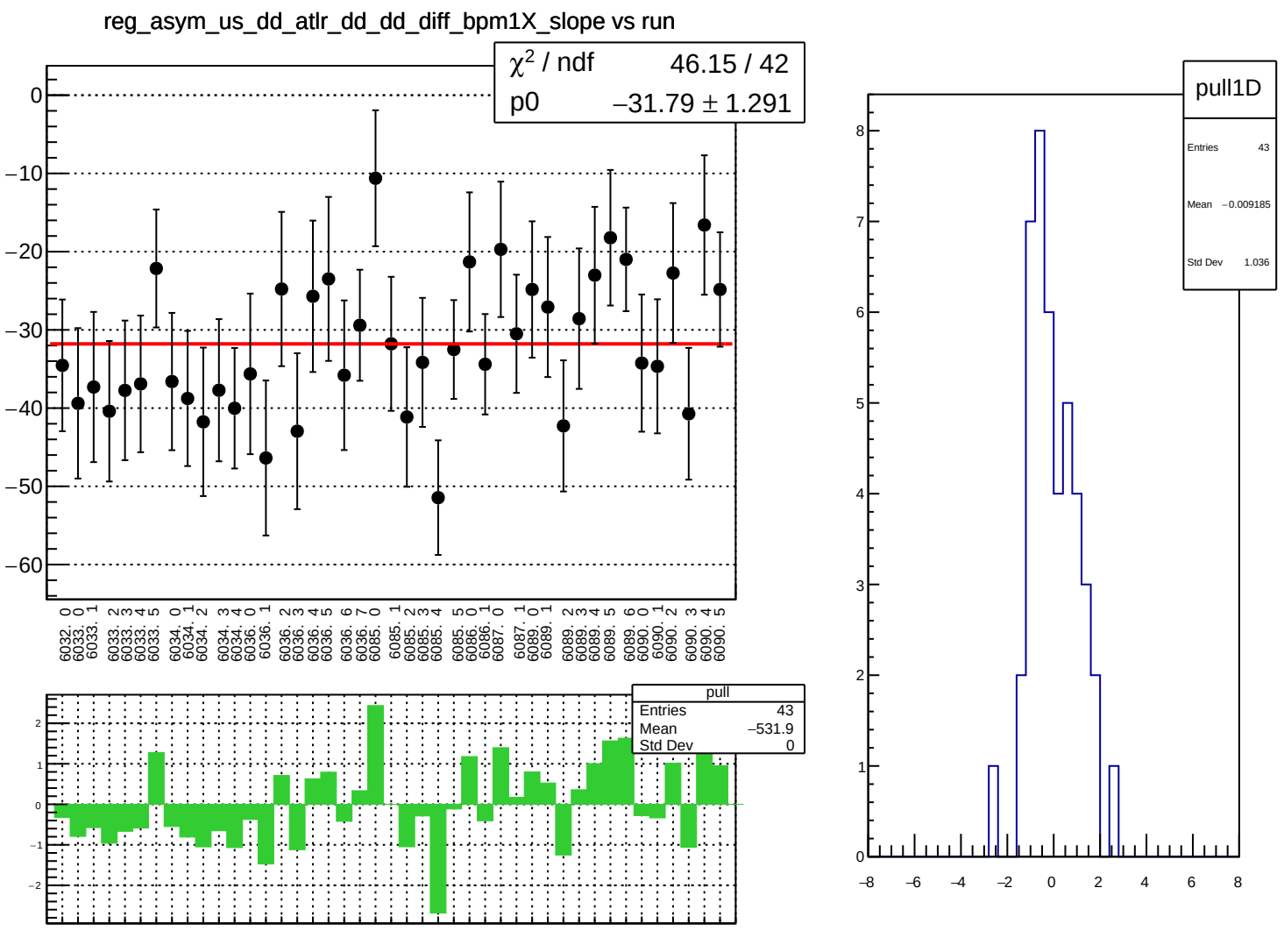

pull1D
Entries 43
Mean −0.01713
Std Dev 0.8558

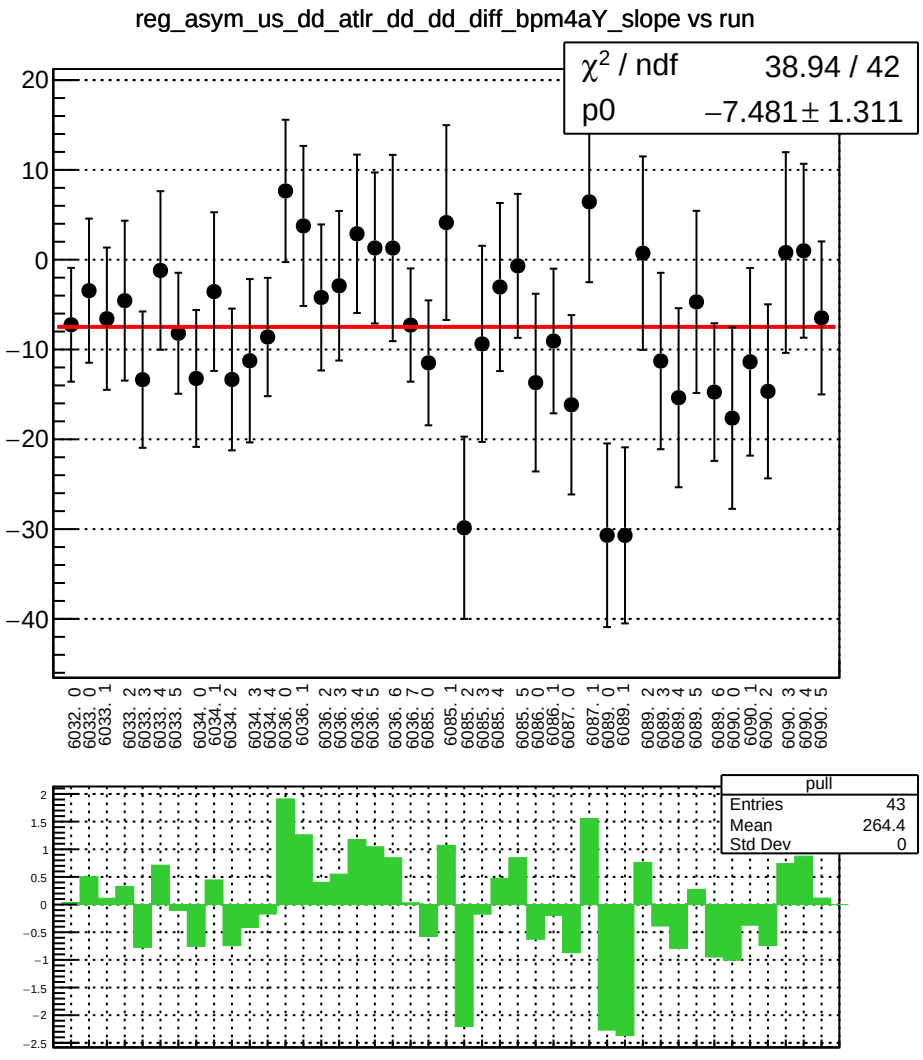

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.89 / 42
p0 −132.3 ± 2.983
−80
−100
−120
−140
−160
−180
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 8.471
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02099
Std Dev 0.8473
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

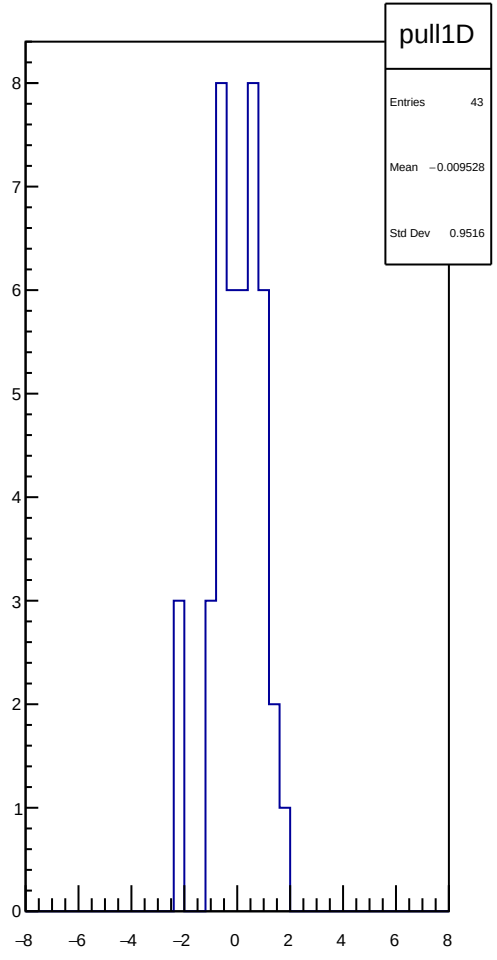

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.93 / 42
p0 −25.16 ± 2.951
pull
Entries 43
Mean −53.93
Std Dev 0

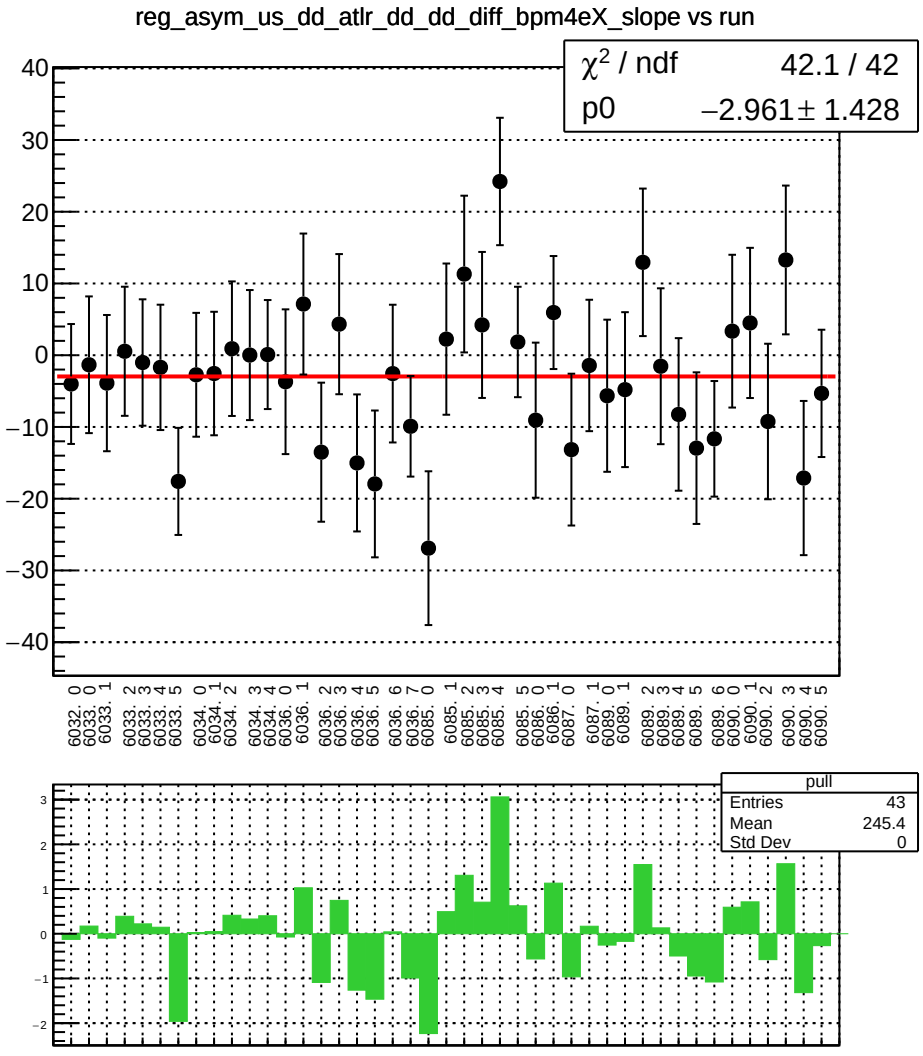

pull1D
Entries 43
Mean 0.02674
Std Dev 0.8613

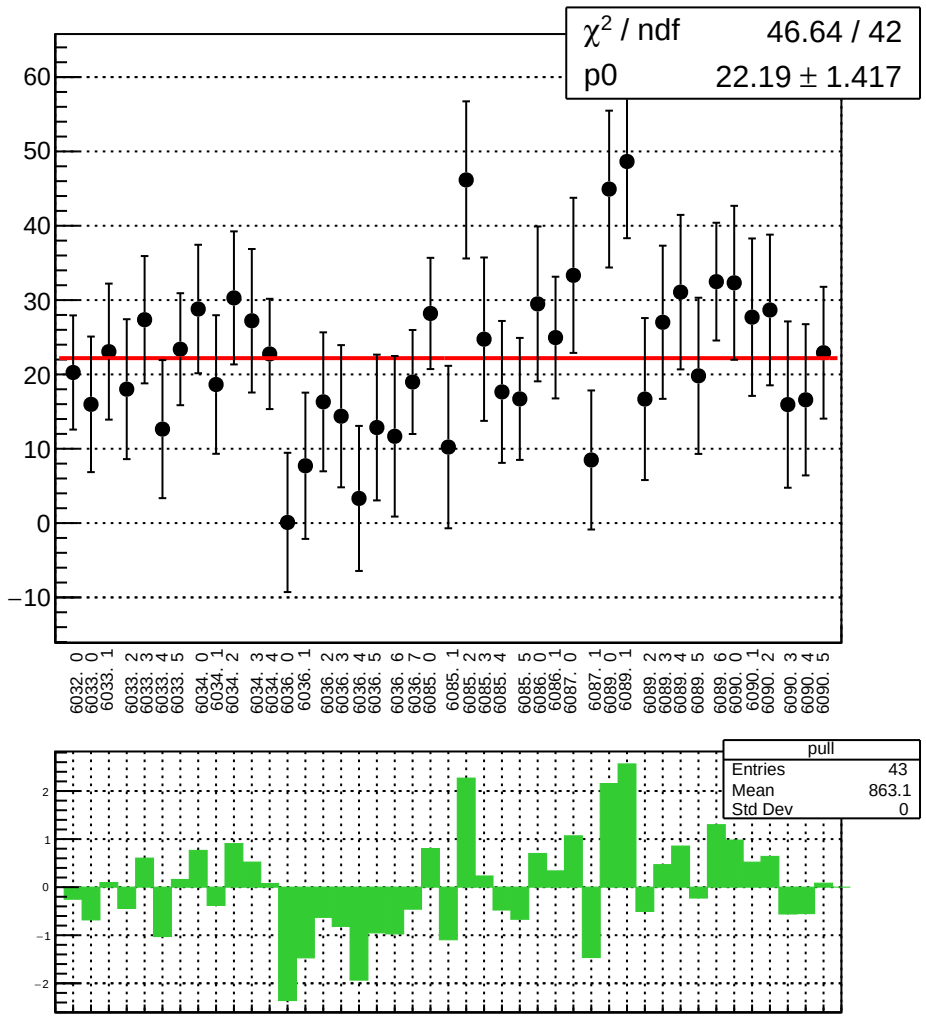

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.46 / 42
p0 19 ± 0.2446
pull
Entries 43
Mean 25.5
Std Dev 0
pull1D
Entries 43
Mean −0.01176
Std Dev 0.8276

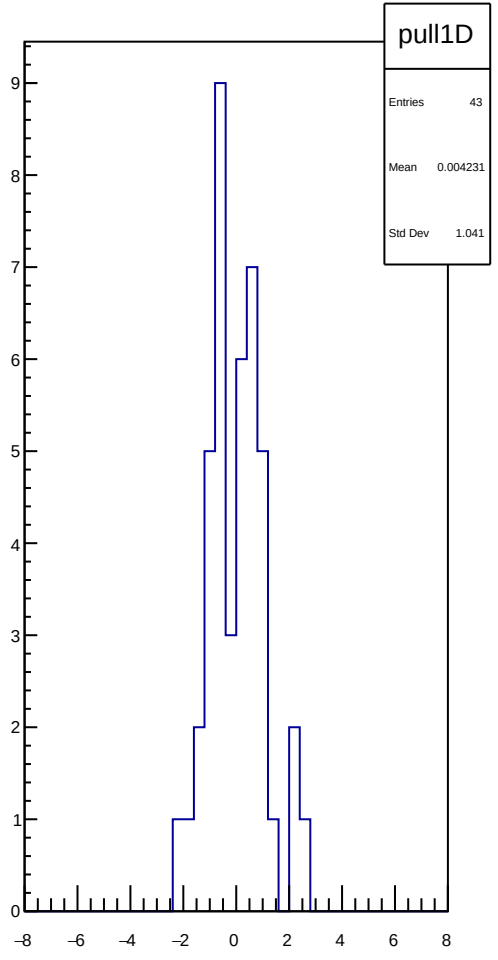

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 46.15 / 42
p0 −31.79 ± 1.291
pull
Entries 43
Mean −531.9
Std Dev 0
pull1D
Entries 43
Mean −0.009185
Std Dev 1.036

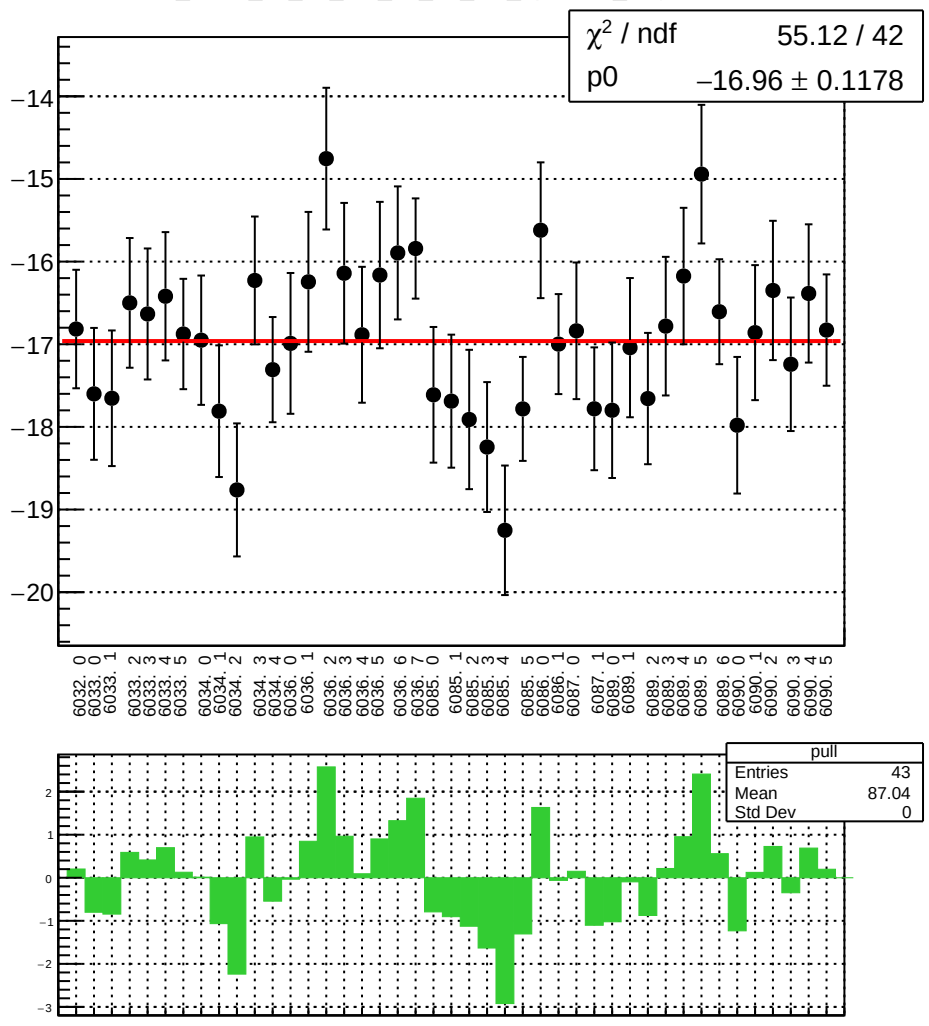

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.94 / 42
p0 −7.481 ± 1.311
pull
Entries 43
Mean 264.4
Std Dev 0

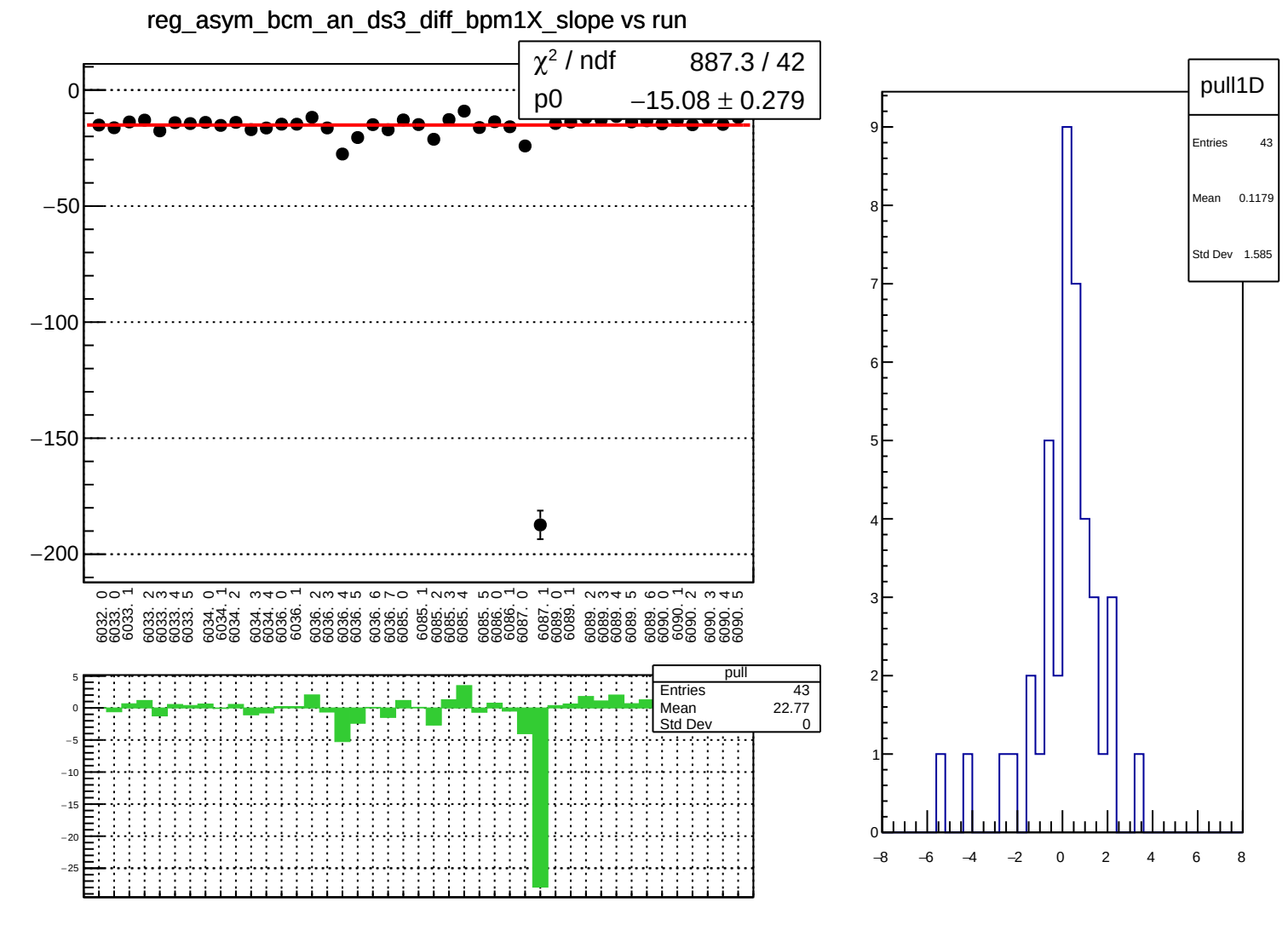

pull1D
Entries 43
Mean −0.009528
Std Dev 0.9516

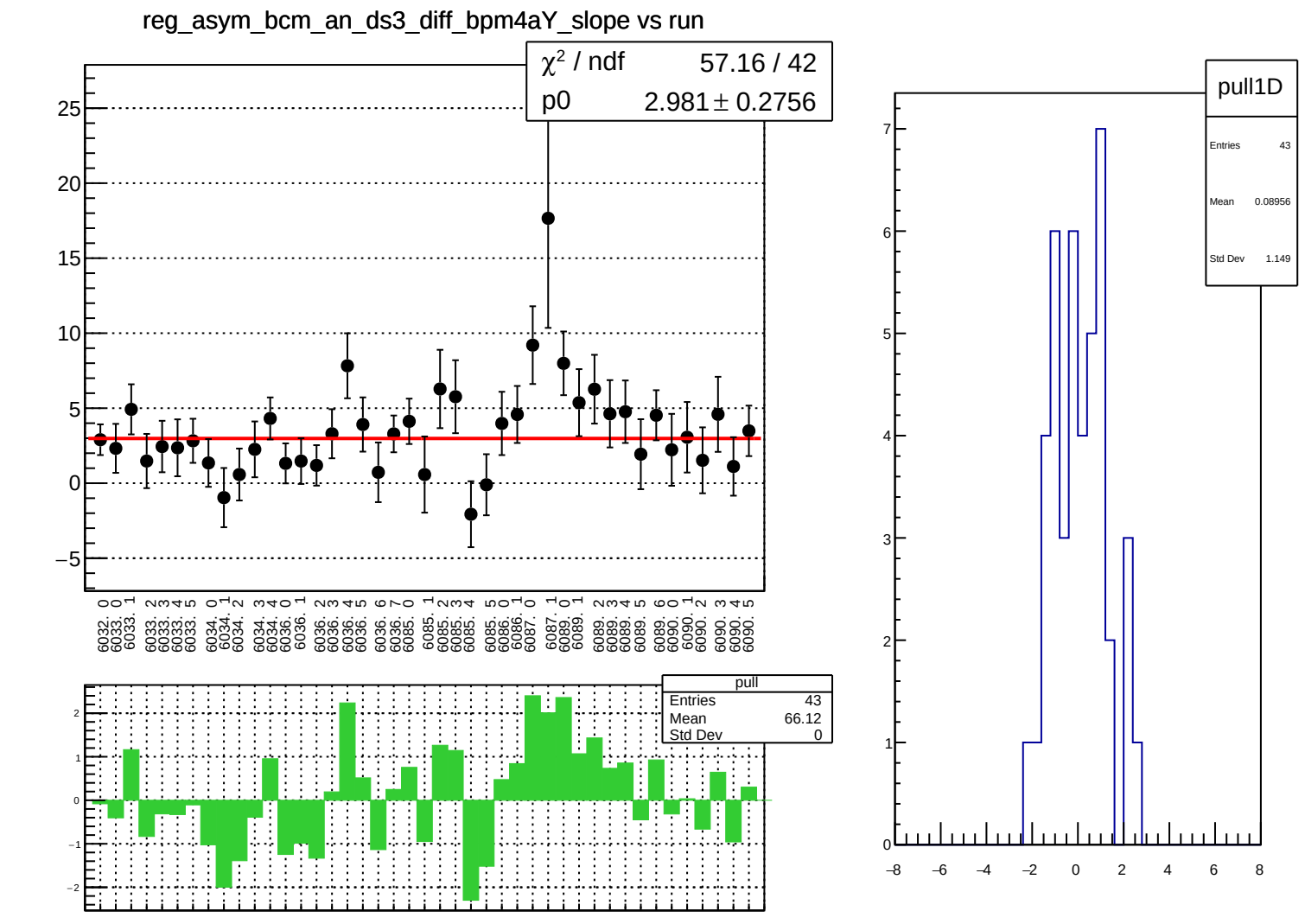

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.1 / 42
p0 −2.961 ± 1.428
pull
Entries 43
Mean 245.4
Std Dev 0
pull1D
Entries 43
Mean 0.001694
Std Dev 0.9894

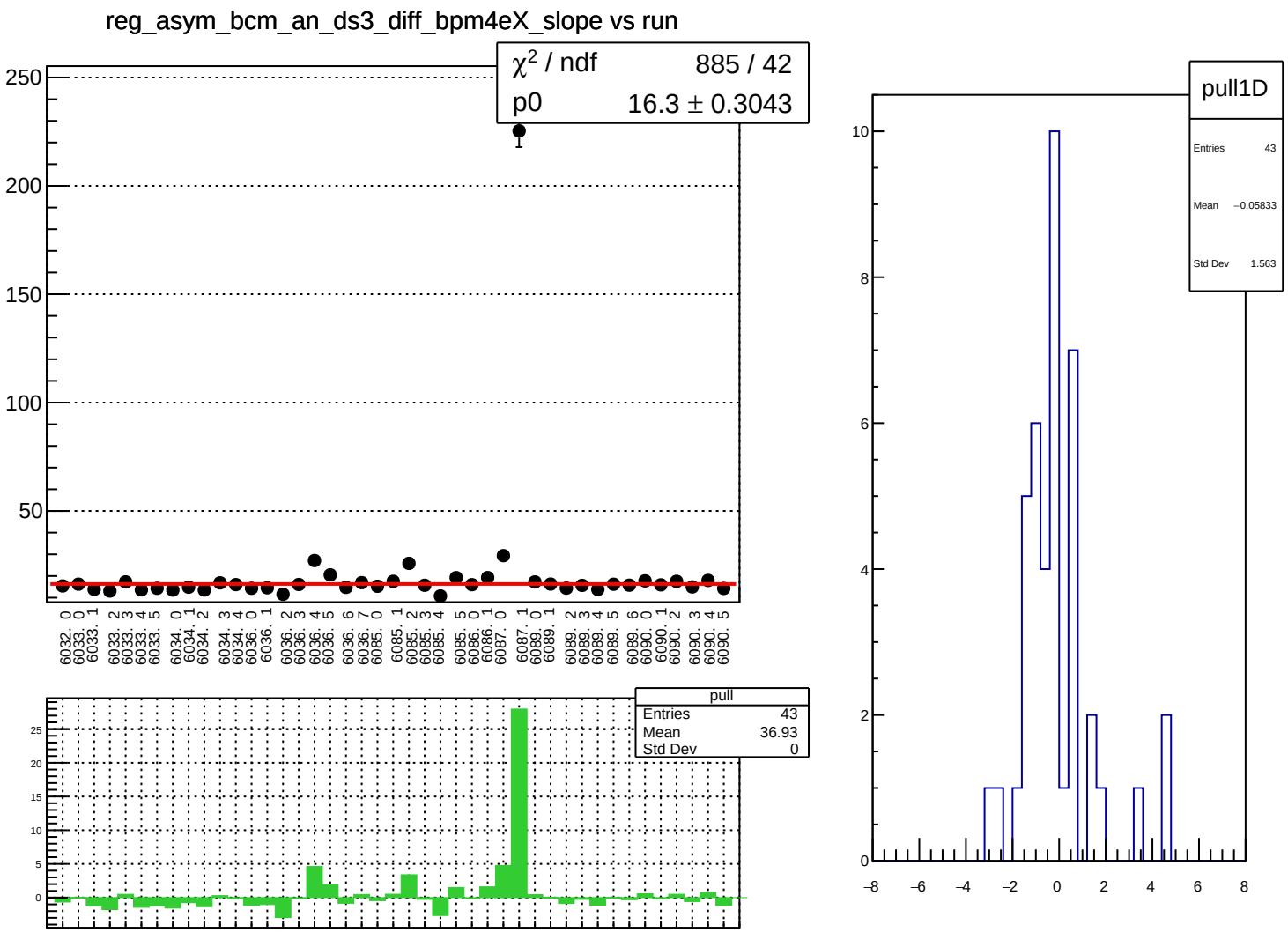

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.64 / 42
p0 22.19 ± 1.417
pull
Entries 43
Mean 863.1
Std Dev 0

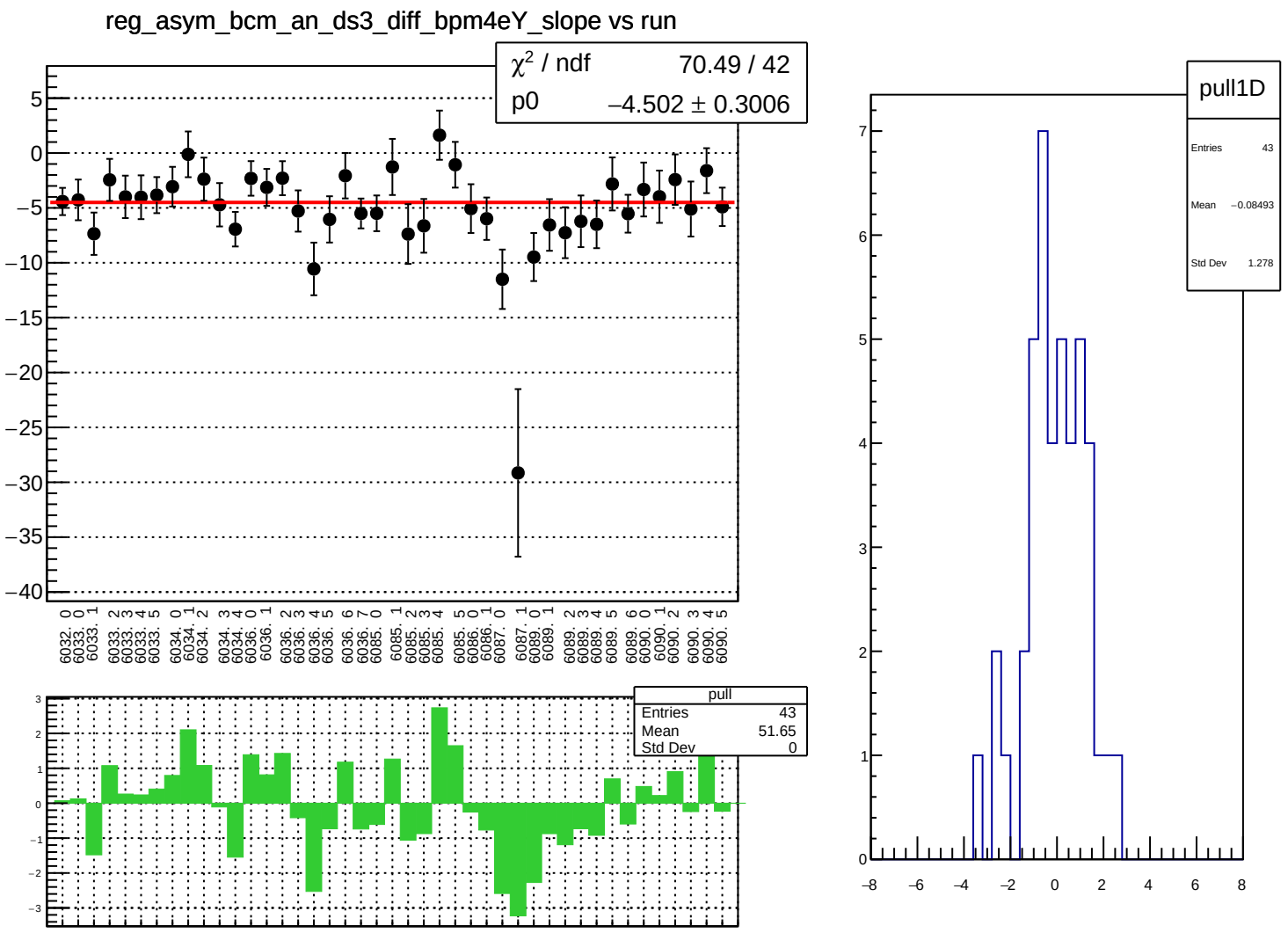

pull1D
Entries 43
Mean 0.004231
Std Dev 1.041

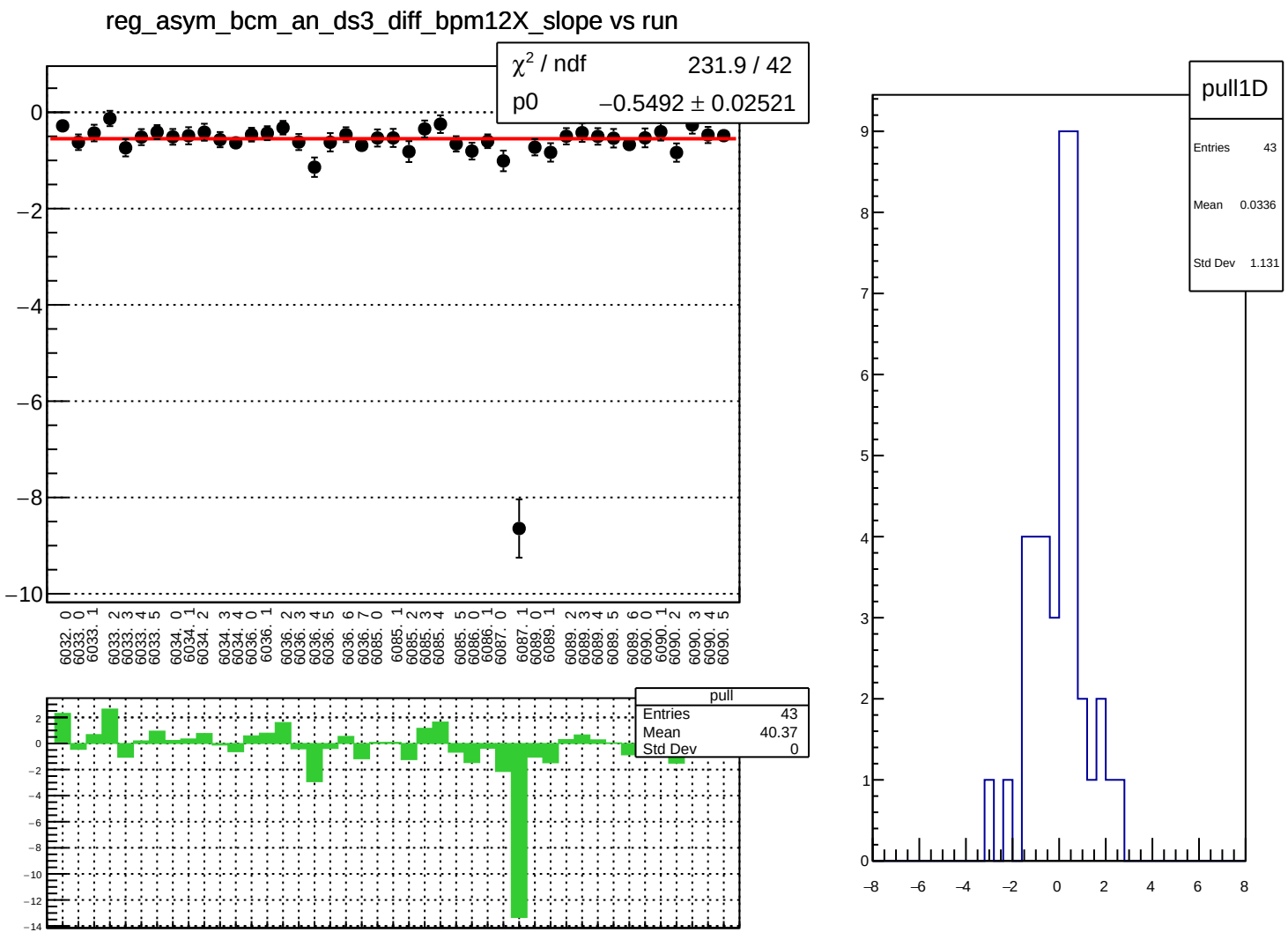

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 55.12 / 42
p0 −16.96 ± 0.1178
pull
Entries 43
Mean 87.04
Std Dev 0
pull1D
Entries 43
Mean 0.006066
Std Dev 1.132

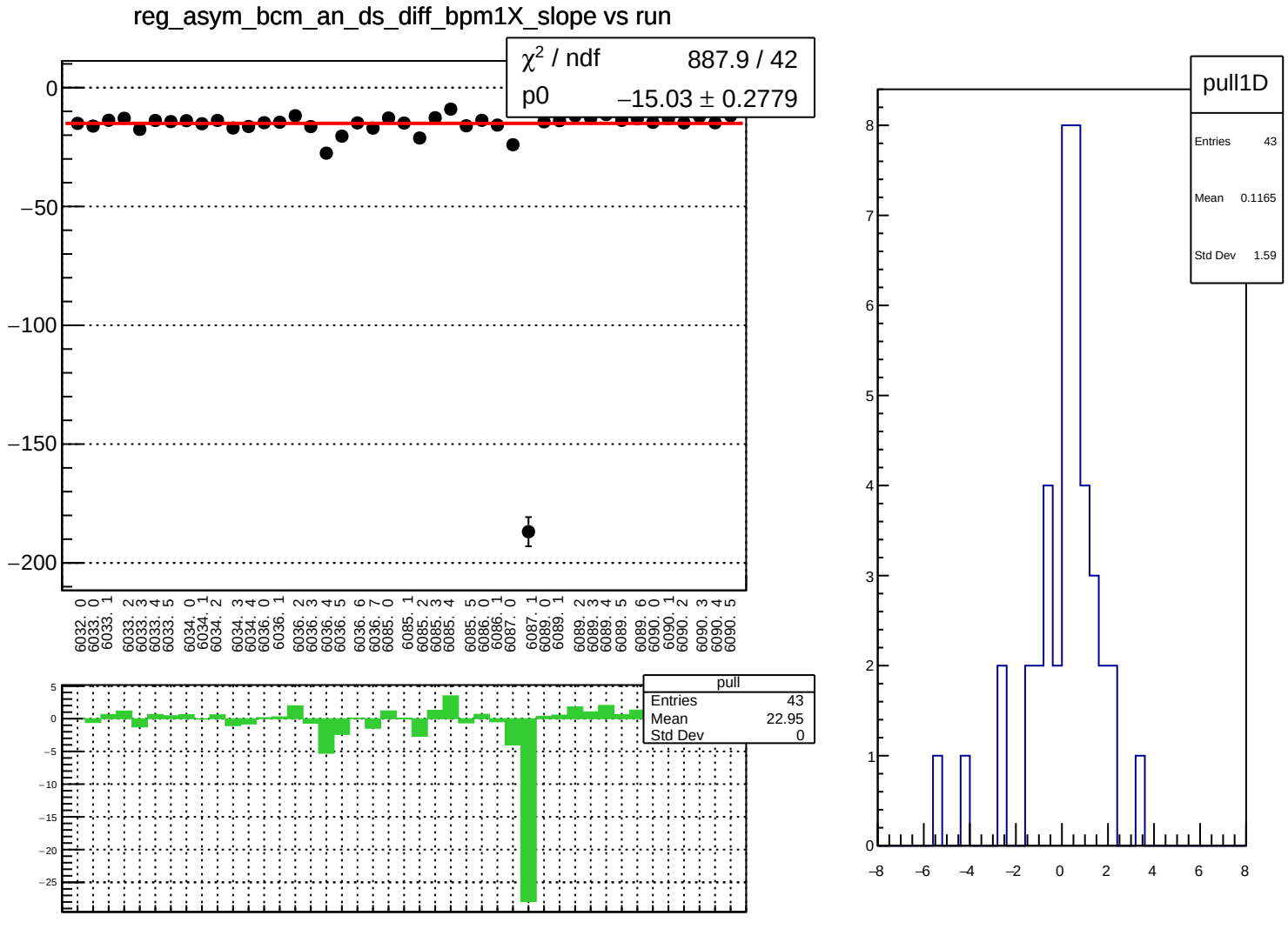

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 887.3 / 42
p0 −15.08 ± 0.279
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.77
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1179
Std Dev 1.585
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

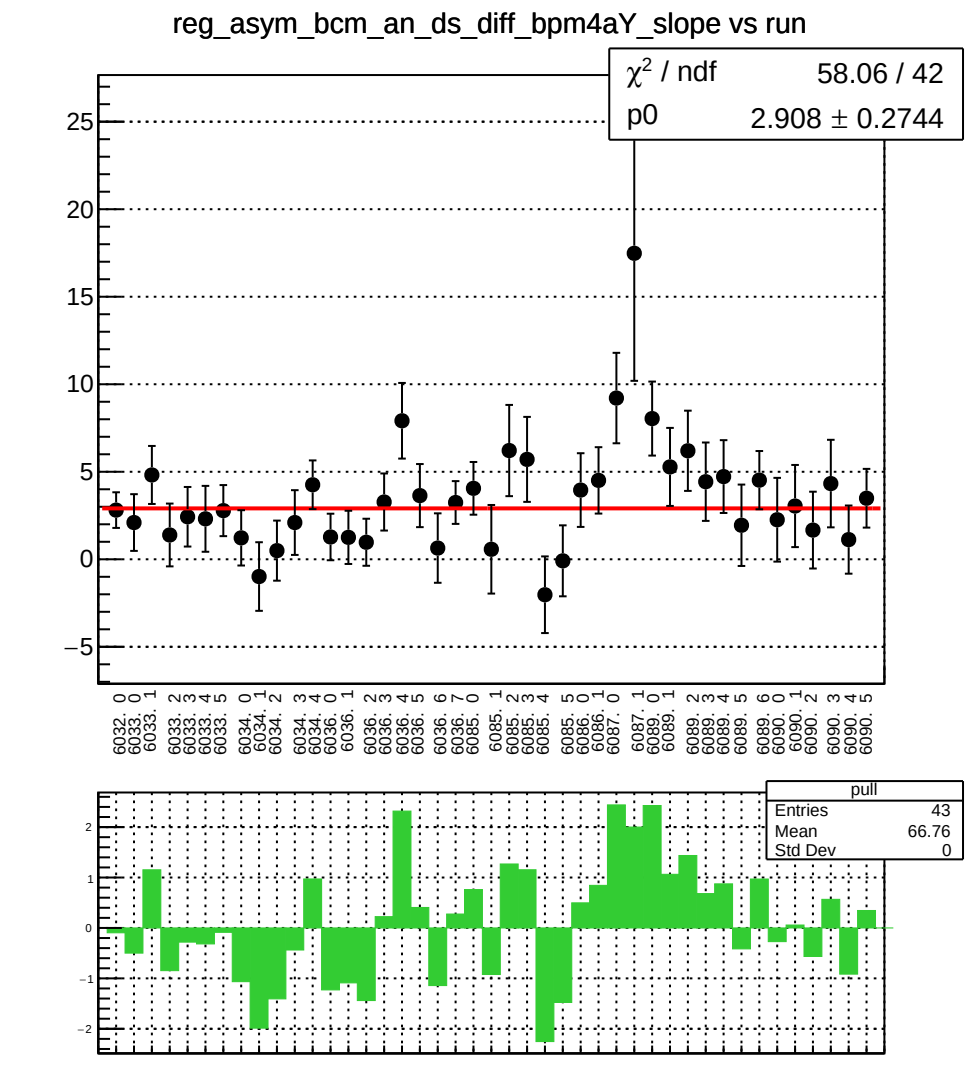

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 57.16 / 42
p0 2.981 ± 0.2756
pull
Entries 43
Mean 66.12
Std Dev 0
pull1D
Entries 43
Mean 0.08956
Std Dev 1.149

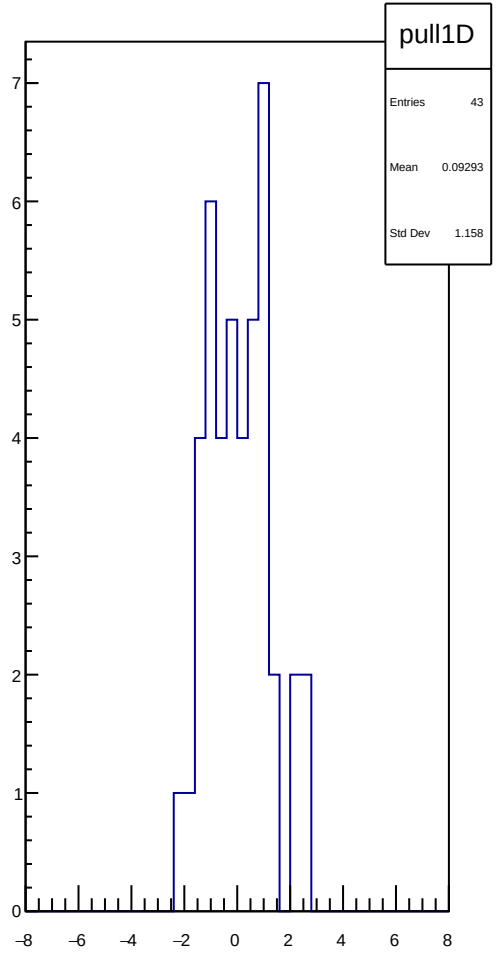

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 885 / 42
p0 16.3 ± 0.3043
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.93
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.05833
Std Dev 1.563
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

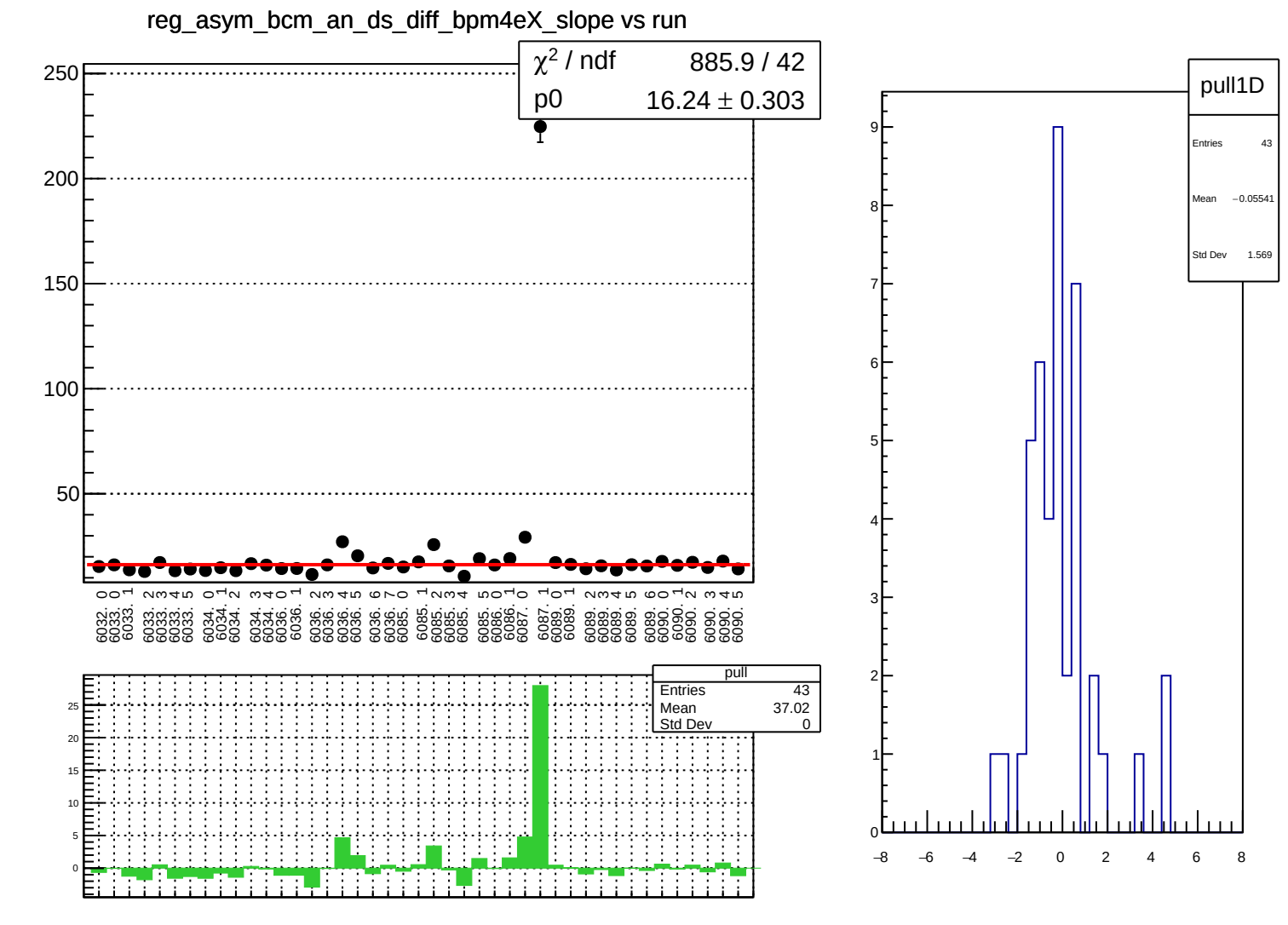

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 70.49 / 42
p0 −4.502 ± 0.3006
pull
Entries 43
Mean 51.65
Std Dev 0
pull1D
Entries 43
Mean −0.08493
Std Dev 1.278

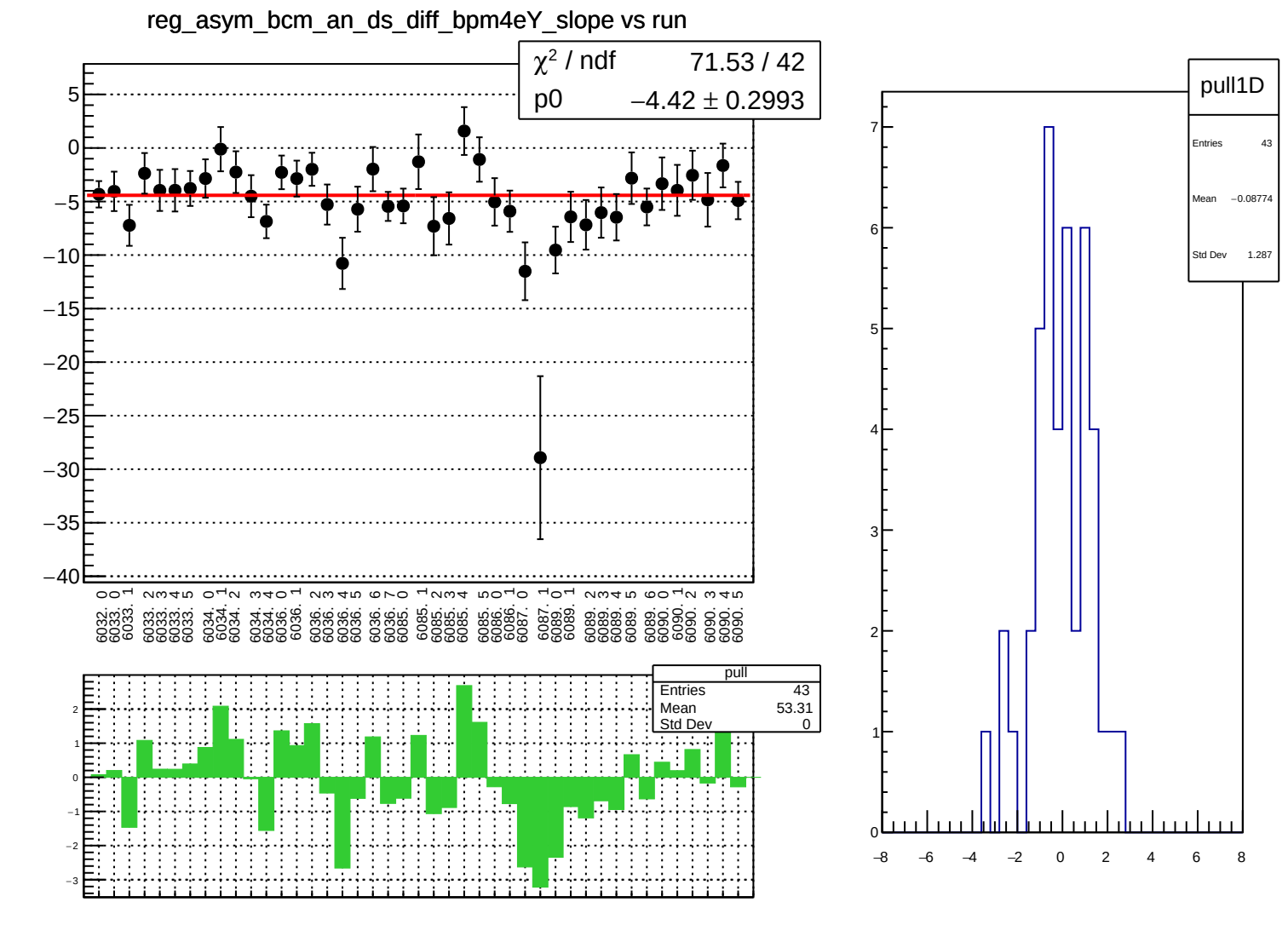

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 231.9 / 42
p0 −0.5492 ± 0.02521
pull
Entries 43
Mean 40.37
Std Dev 0
pull1D
Entries 43
Mean 0.0336
Std Dev 1.131

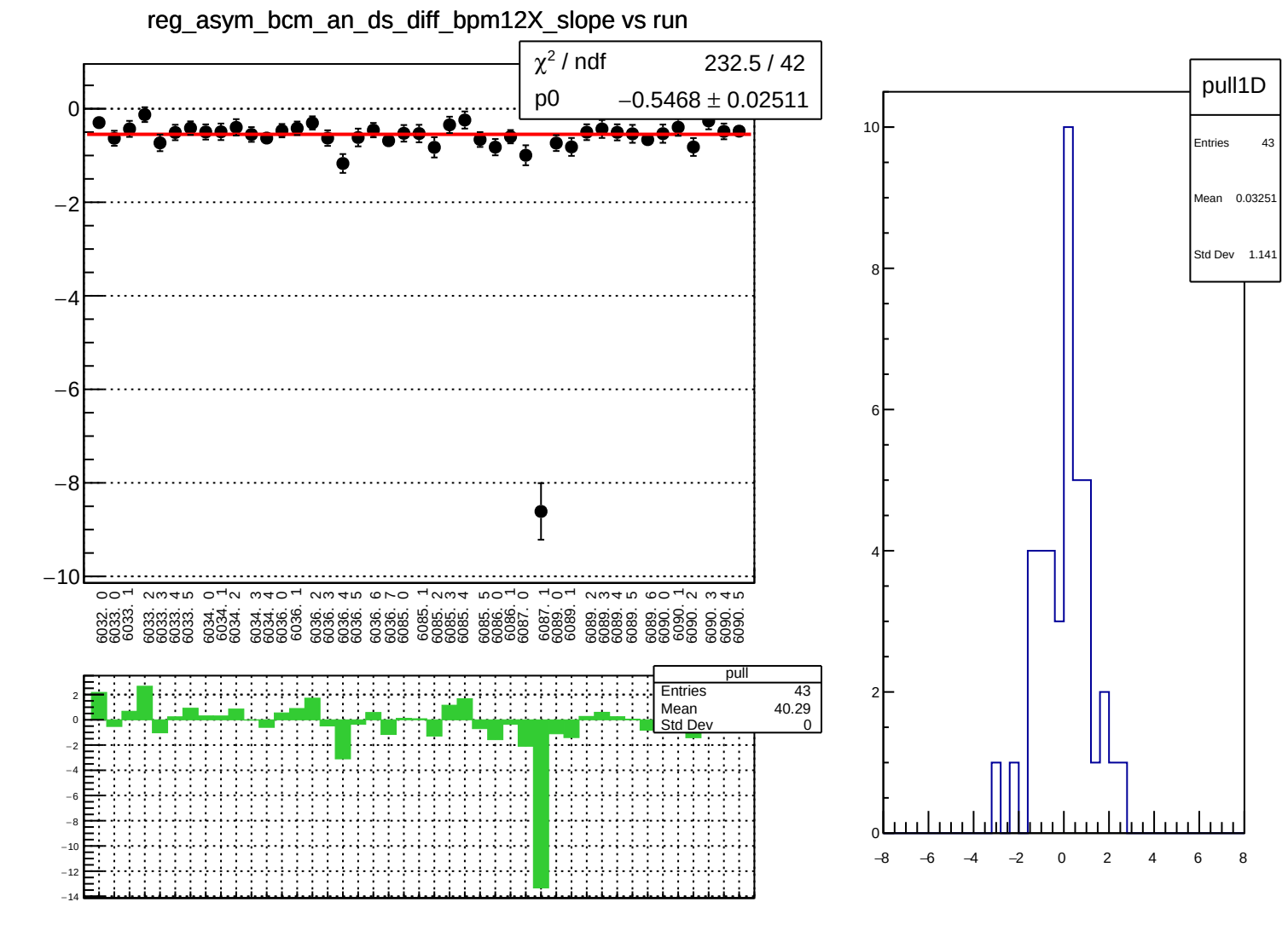

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 887.9 / 42
p0 −15.03 ± 0.2779
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.95
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1165
Std Dev 1.59
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

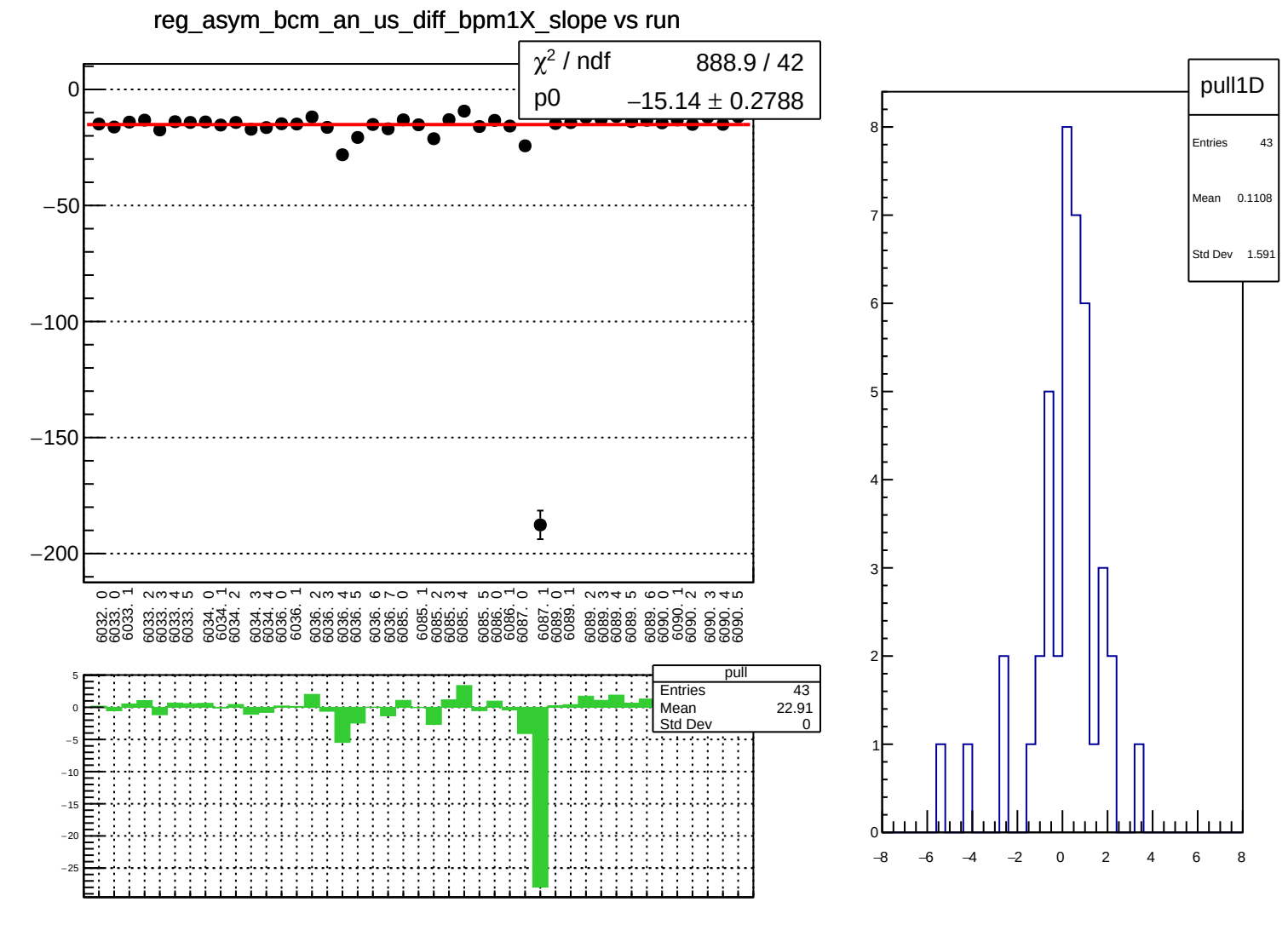

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 58.06 / 42
p0 2.908 ± 0.2744
pull
Entries 43
Mean 66.76
Std Dev 0

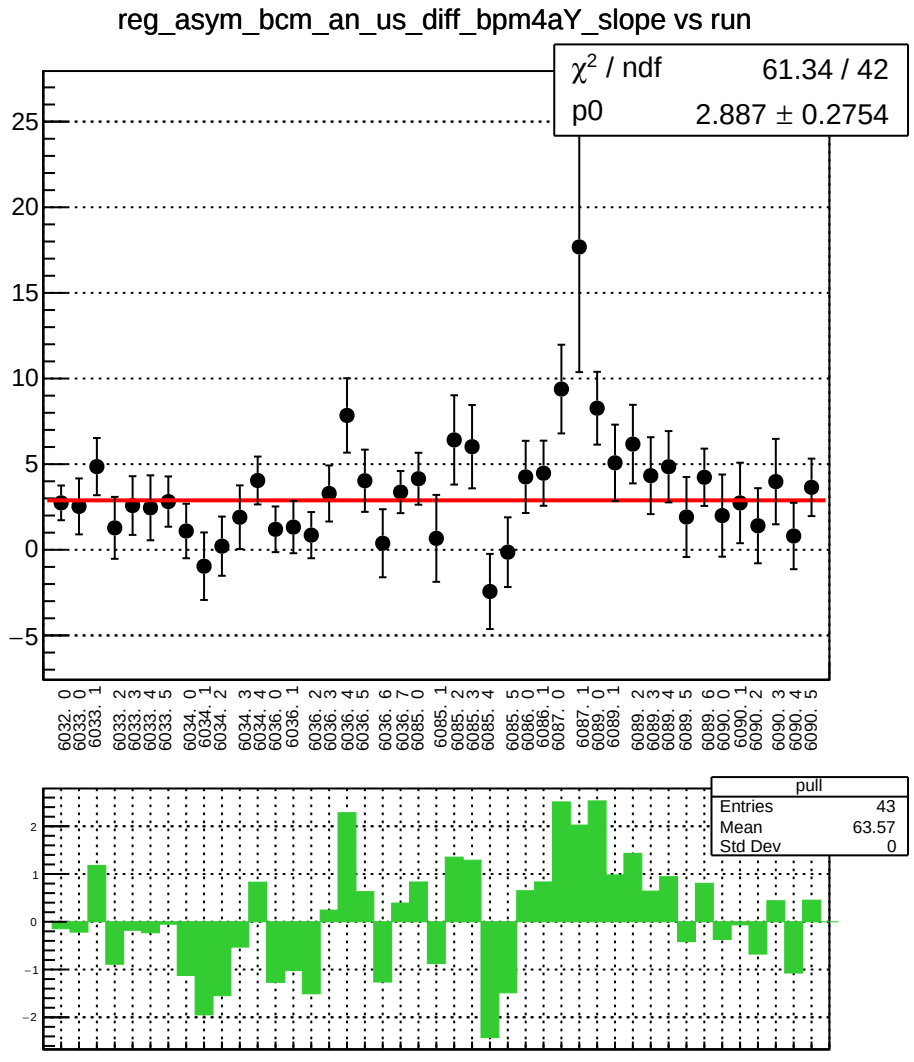

pull1D
Entries 43
Mean 0.09293
Std Dev 1.158

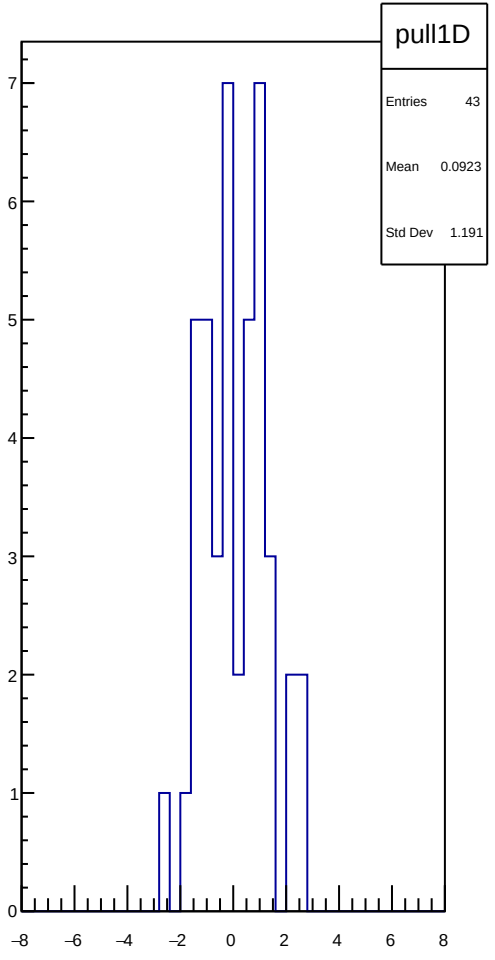

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 885.9 / 42
p0 16.24 ± 0.303
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 37.02
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.05541
Std Dev 1.569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

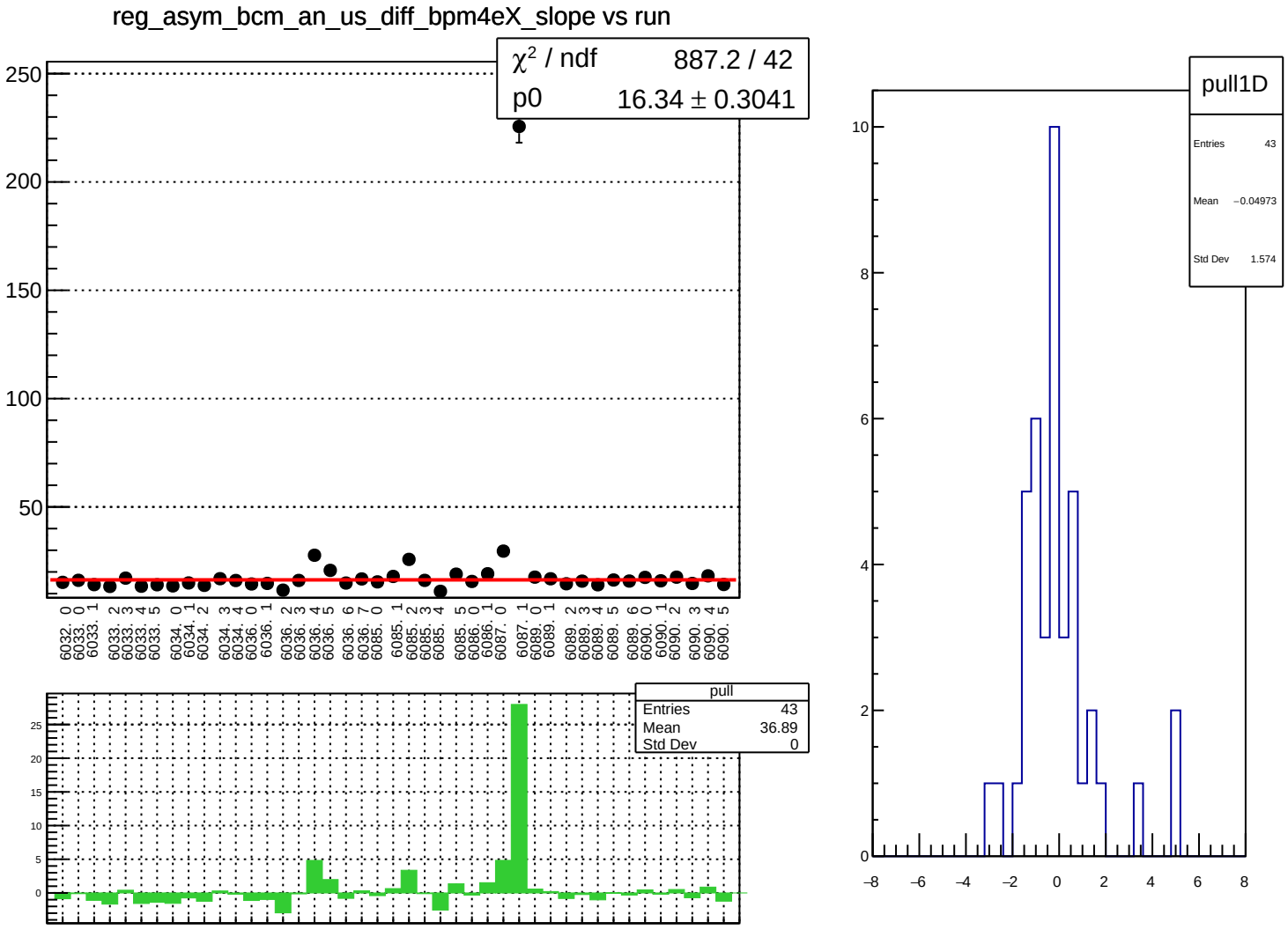

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 71.53 / 42
p0 −4.42 ± 0.2993
pull
Entries 43
Mean 53.31
Std Dev 0
pull1D
Entries 43
Mean −0.08774
Std Dev 1.287

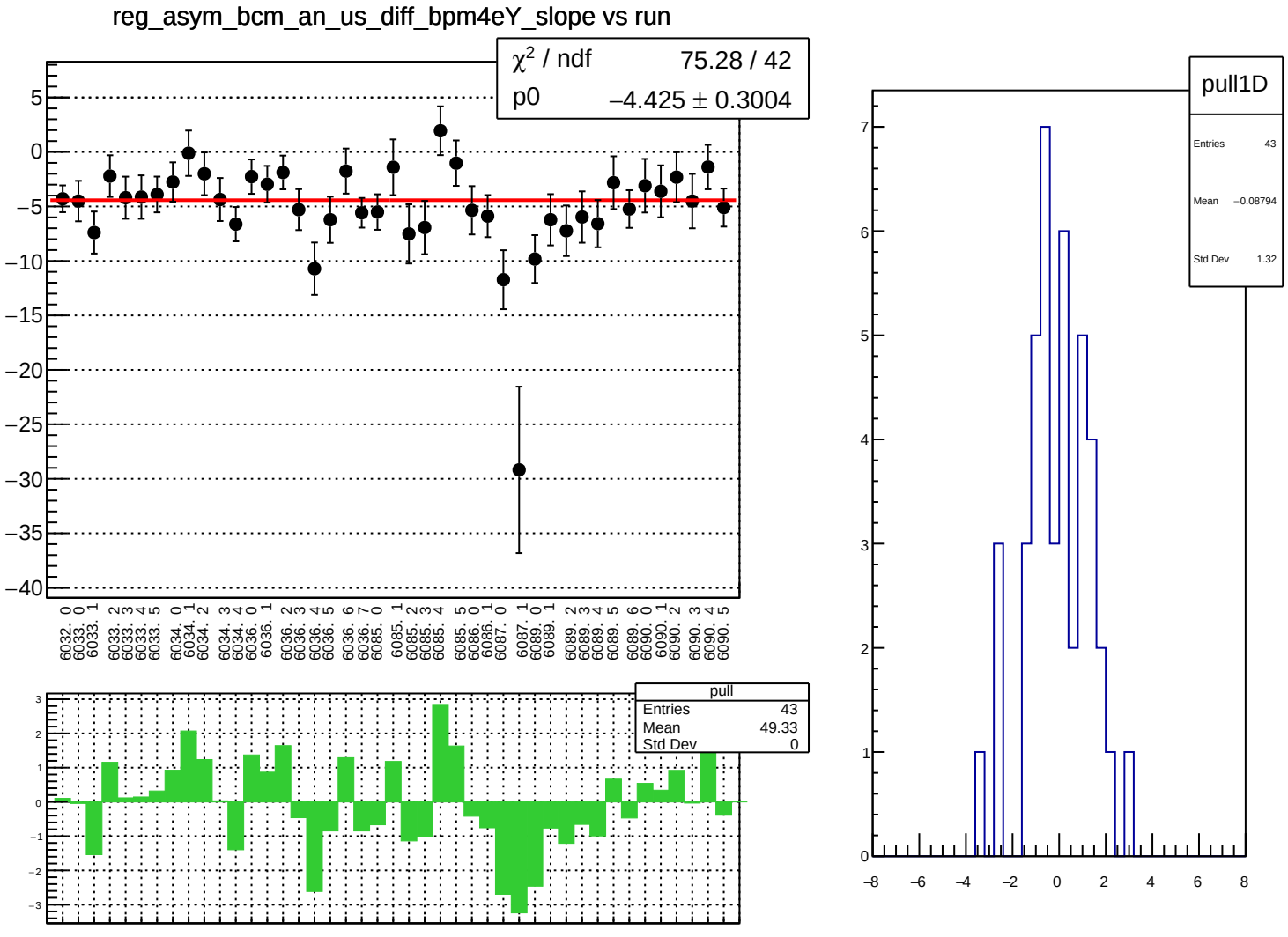

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 232.5 / 42
p0 −0.5468 ± 0.02511
pull
Entries 43
Mean 40.29
Std Dev 0
pull1D
Entries 43
Mean 0.03251
Std Dev 1.141

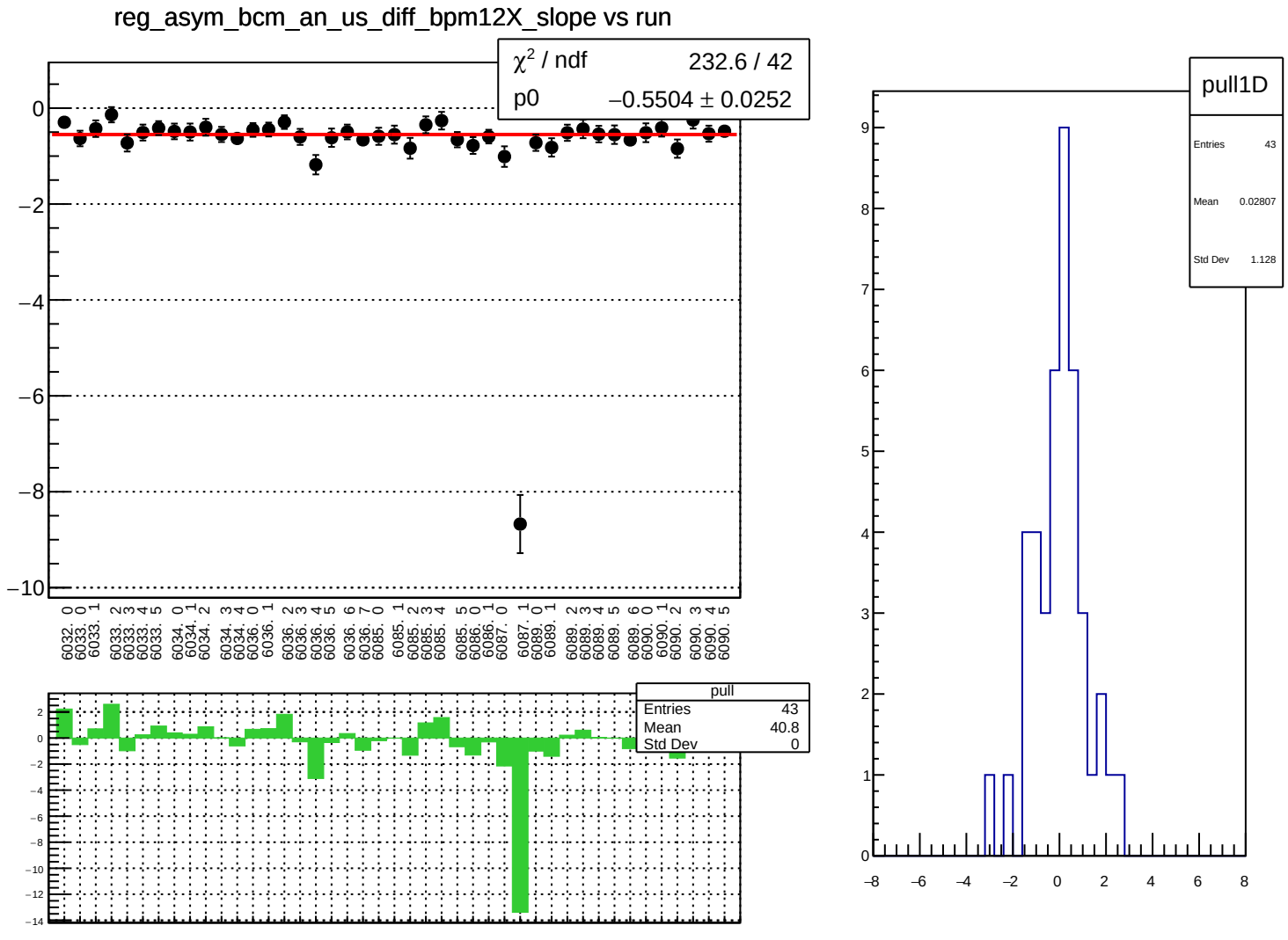

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 888.9 / 42
p0 −15.14 ± 0.2788
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.91
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1108
Std Dev 1.591
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

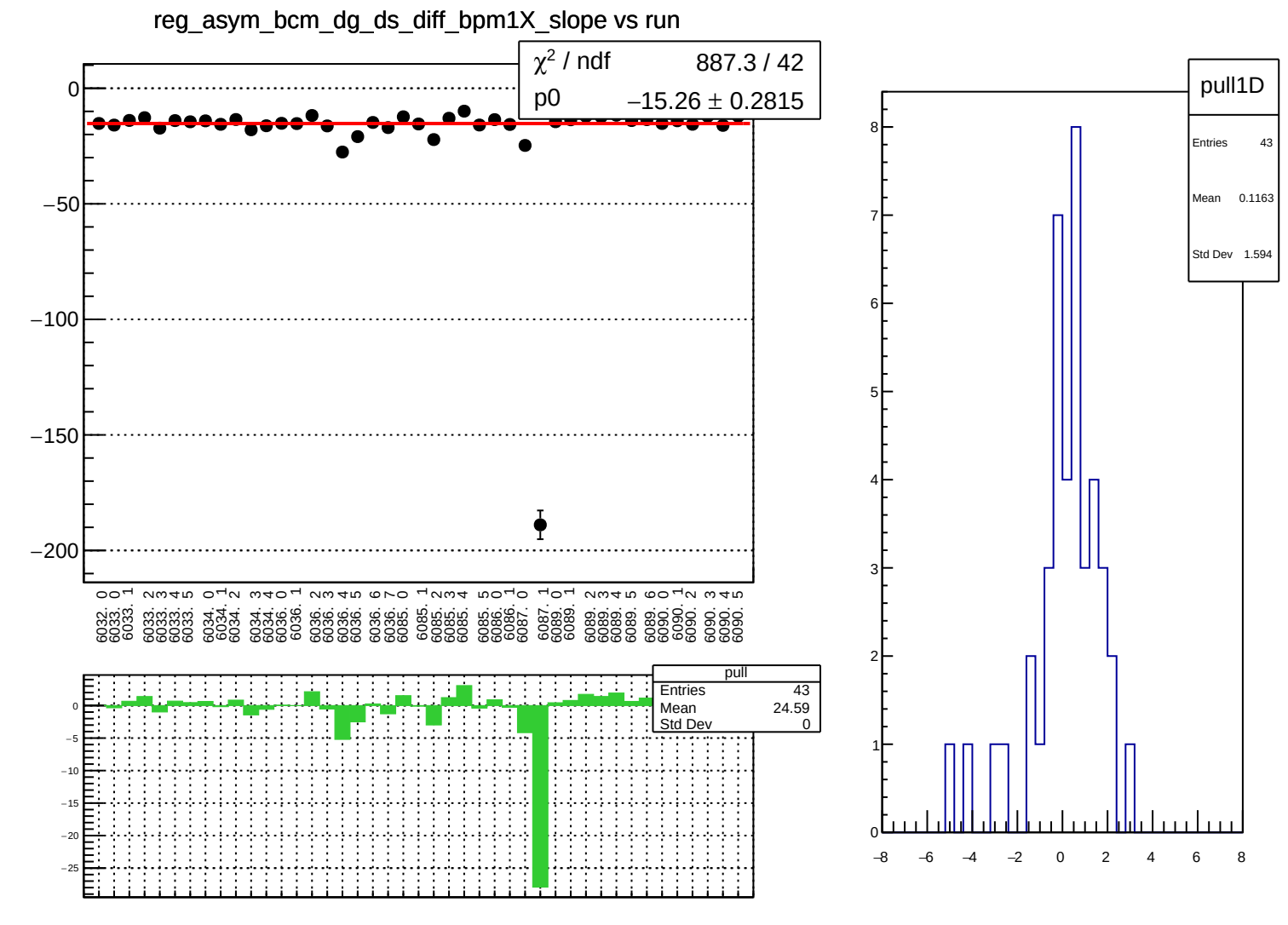

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 61.34 / 42
p0 2.887 ± 0.2754
pull
Entries 43
Mean 63.57
Std Dev 0

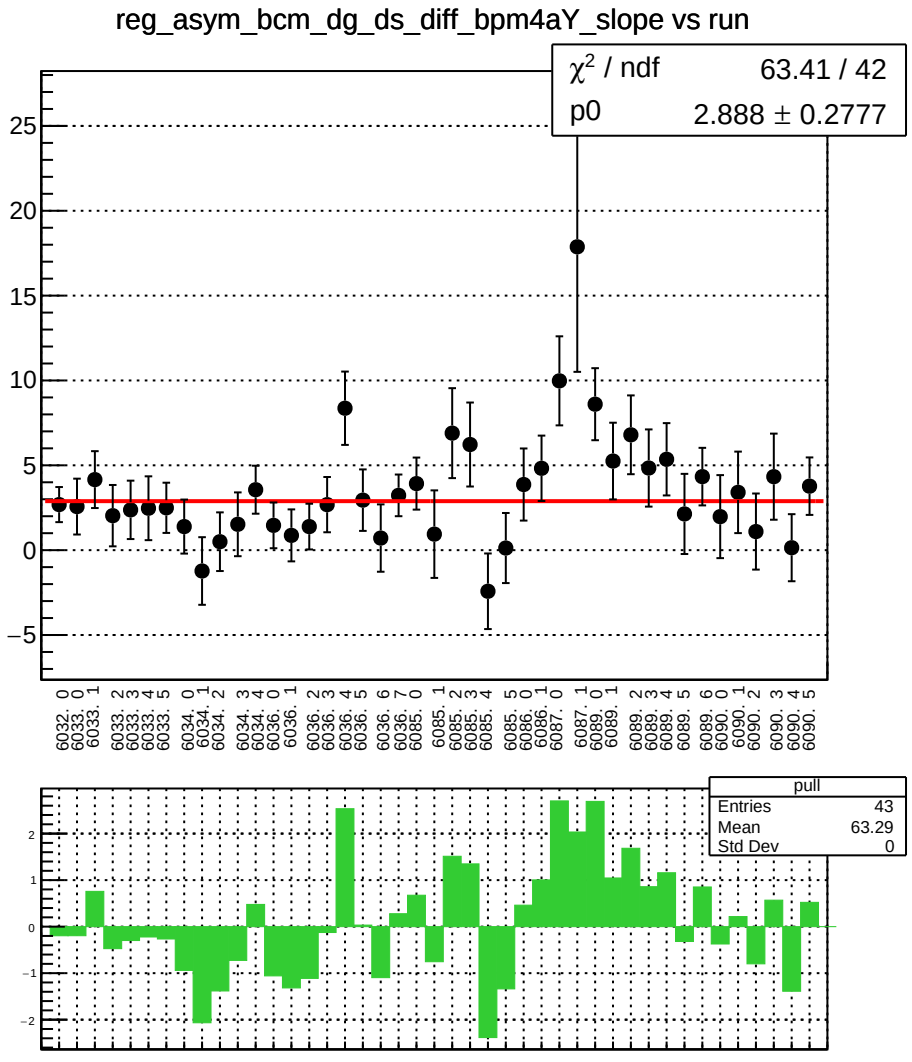

pull1D
Entries 43
Mean 0.0923
Std Dev 1.191

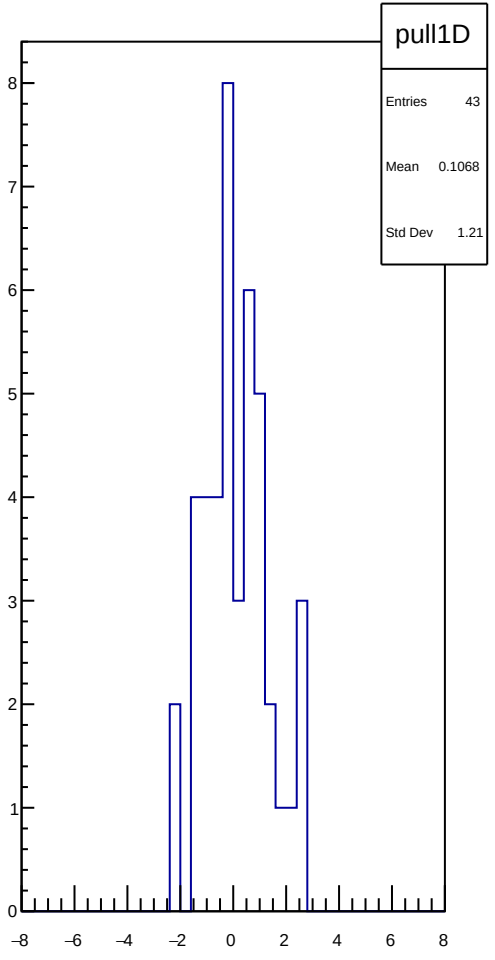

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 887.2 / 42
p0 16.34 ± 0.3041
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.89
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.04973
Std Dev 1.574
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

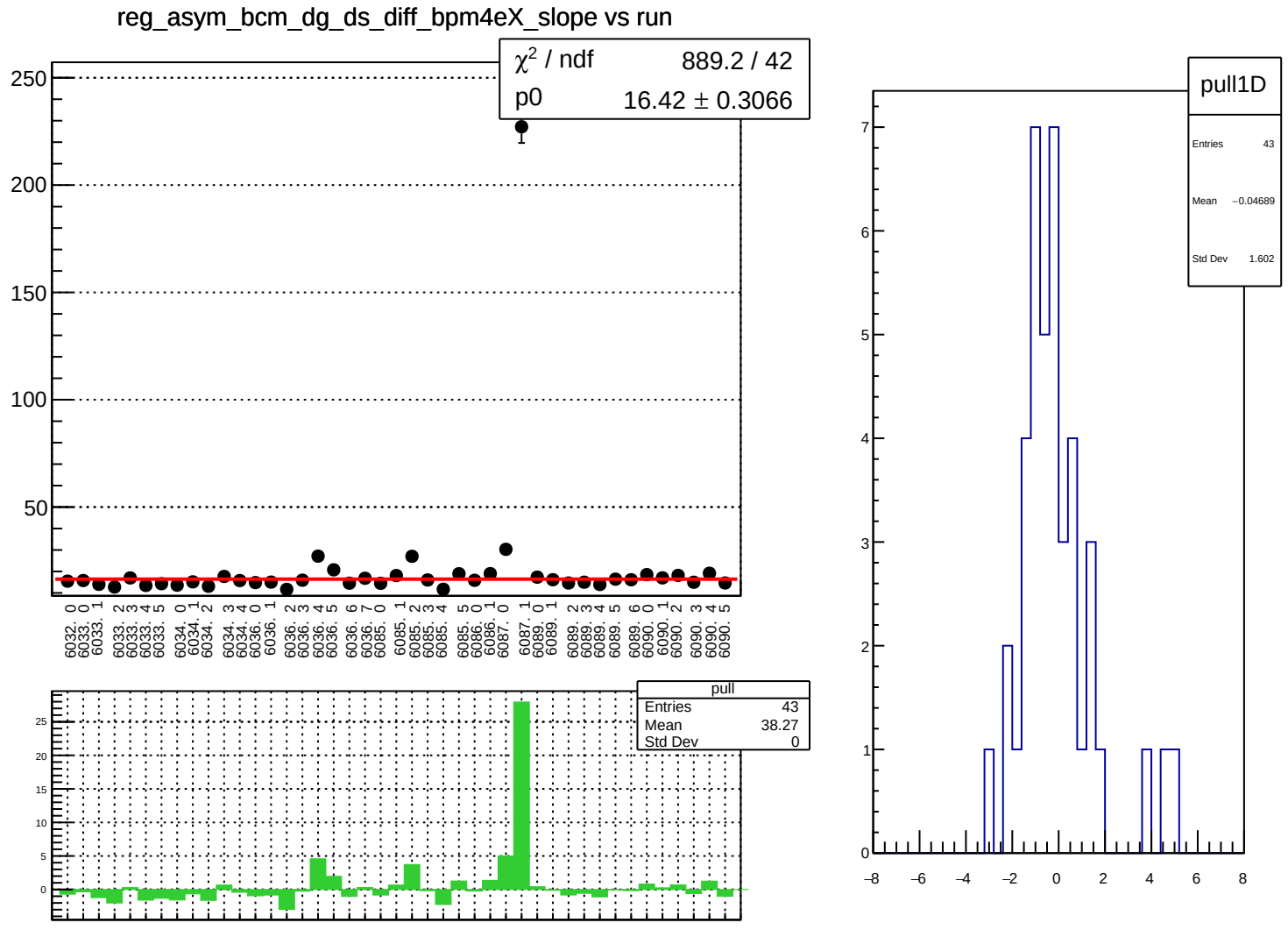

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 75.28 / 42
p0 −4.425 ± 0.3004
pull
Entries 43
Mean 49.33
Std Dev 0
pull1D
Entries 43
Mean −0.08794
Std Dev 1.32

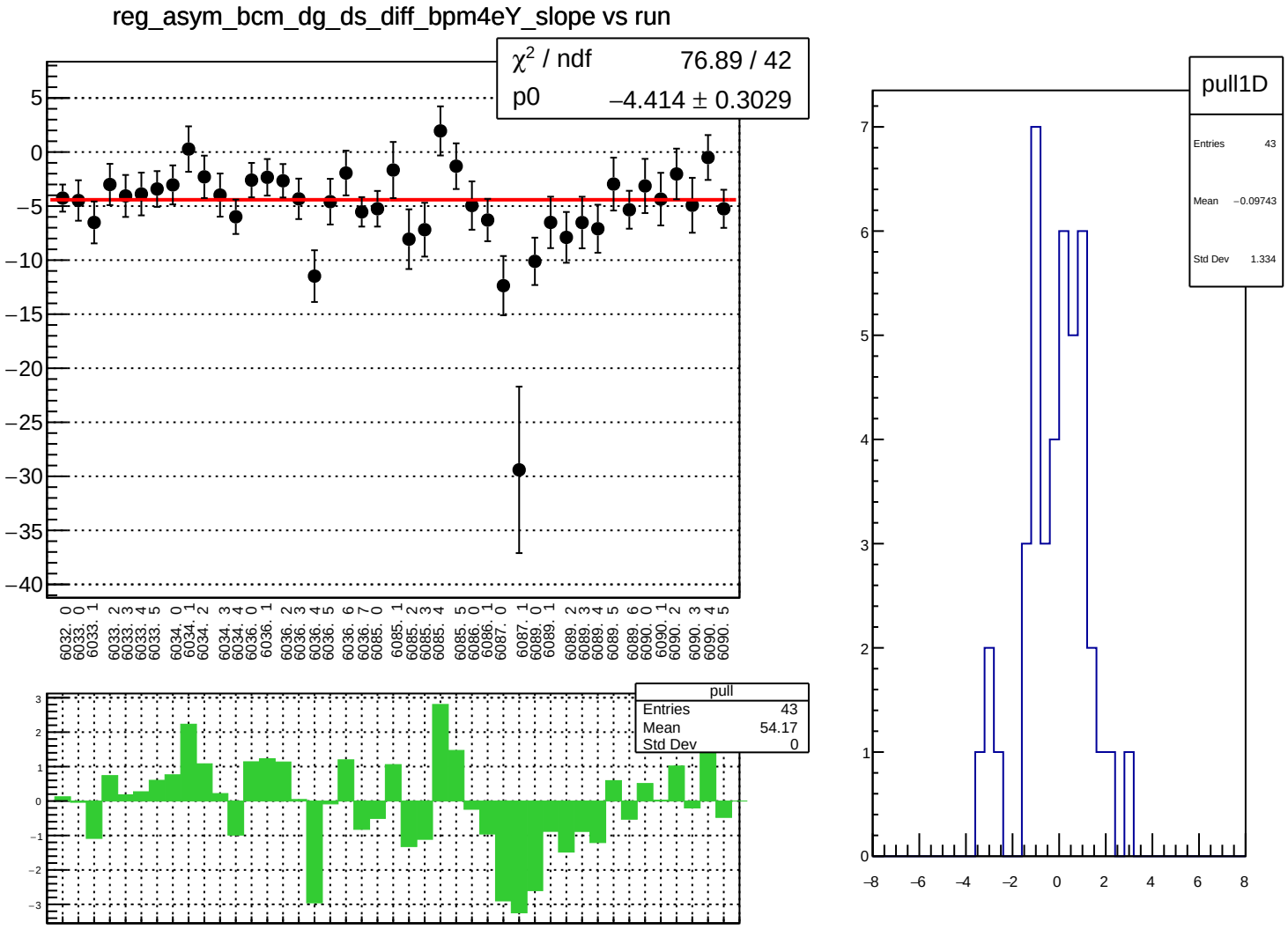

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 232.6 / 42
p0 −0.5504 ± 0.0252
pull
Entries 43
Mean 40.8
Std Dev 0
pull1D
Entries 43
Mean 0.02807
Std Dev 1.128

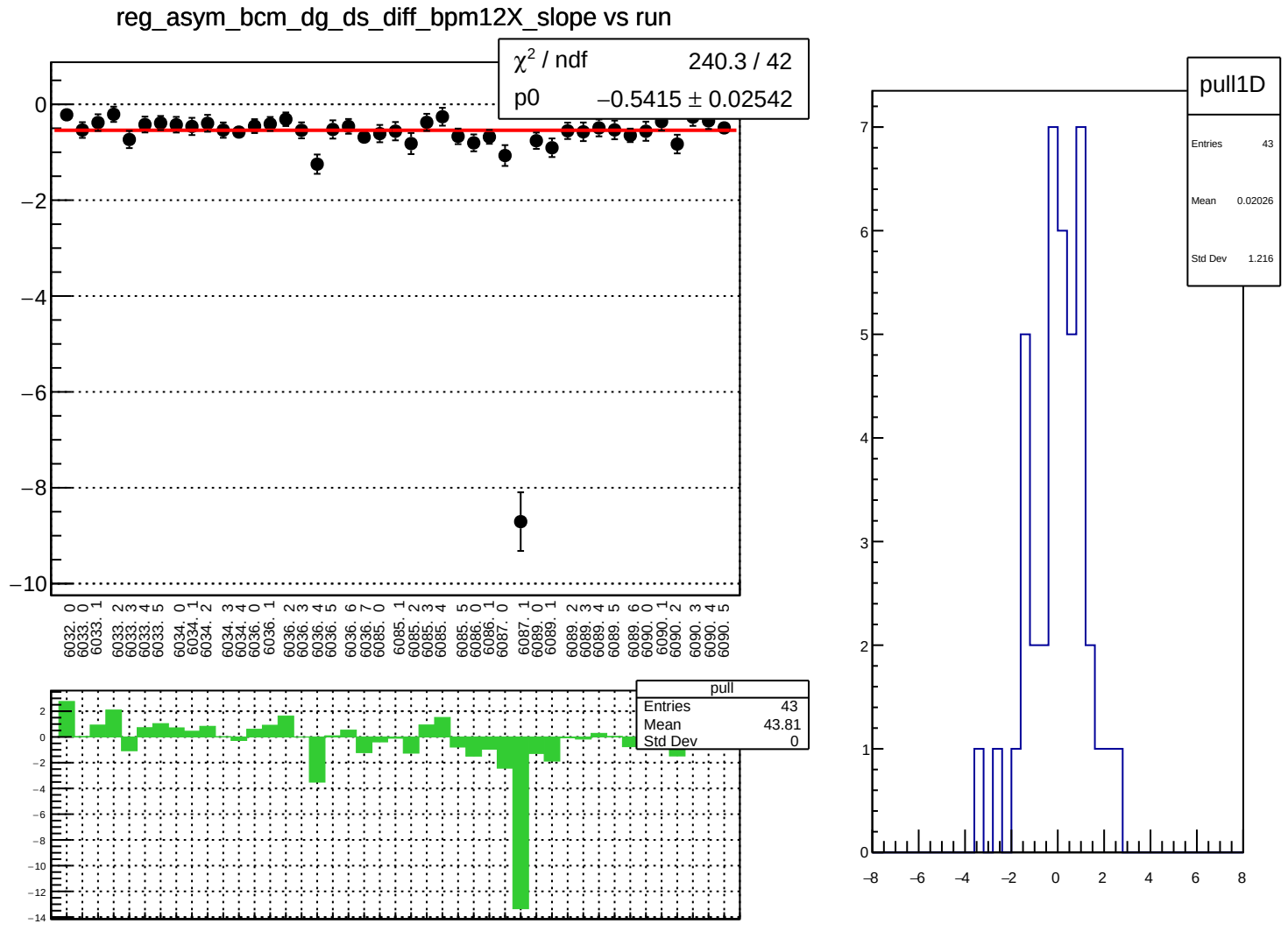

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 887.3 / 42
p0 −15.26 ± 0.2815
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 24.59
Std Dev 0
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1163
Std Dev 1.594
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

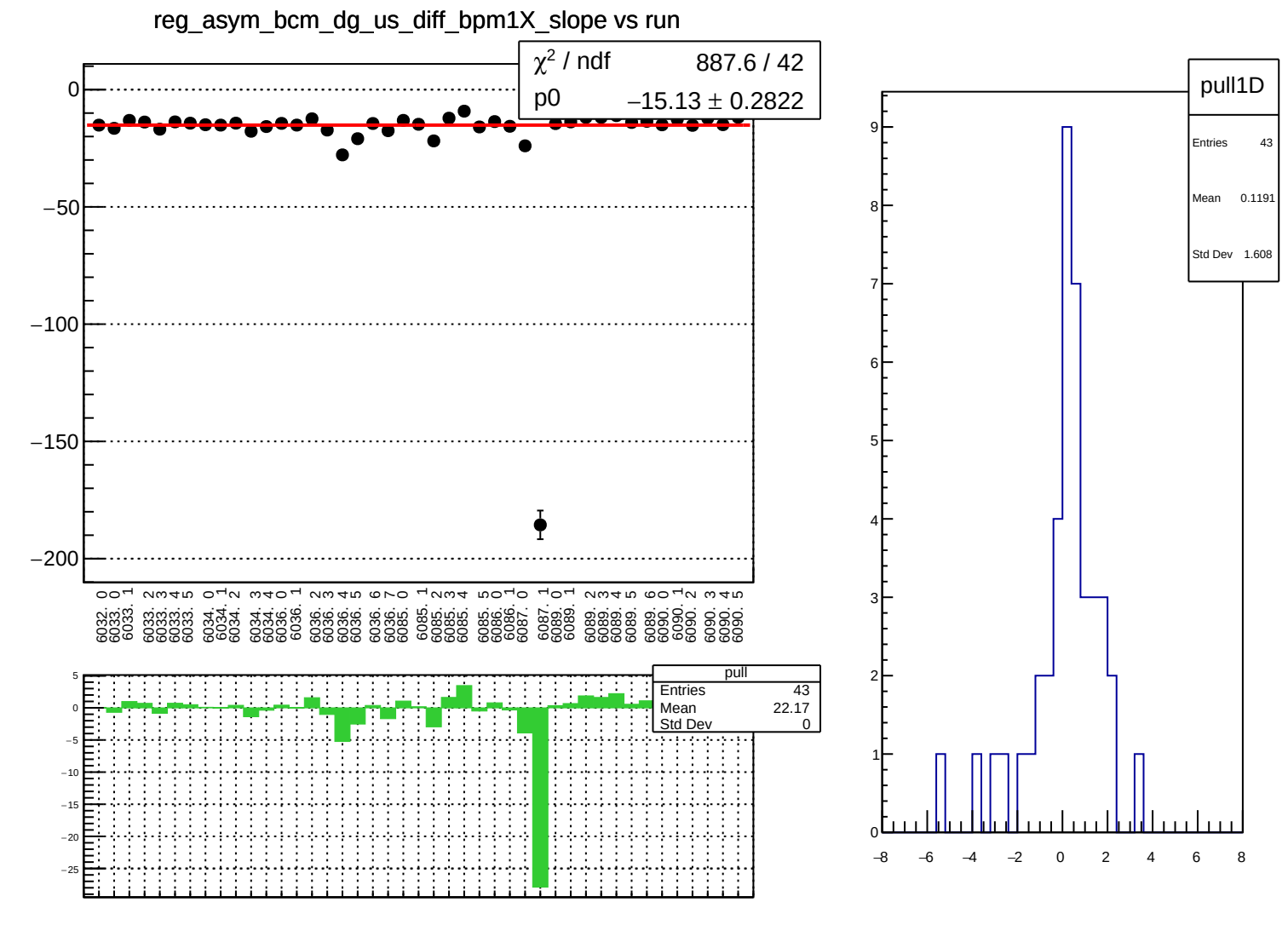

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 63.41 / 42
p0 2.888 ± 0.2777
pull
Entries 43
Mean 63.29
Std Dev 0

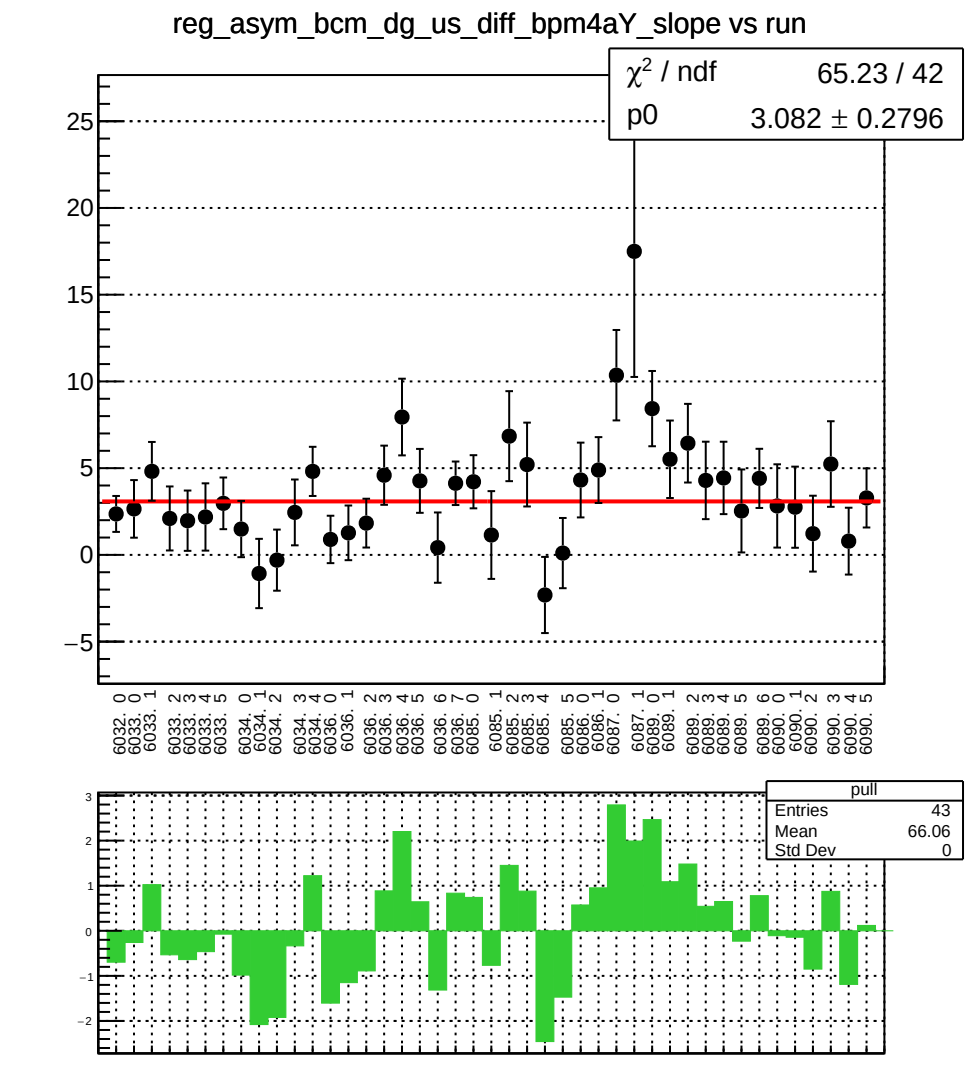

pull1D
Entries 43
Mean 0.1068
Std Dev 1.21

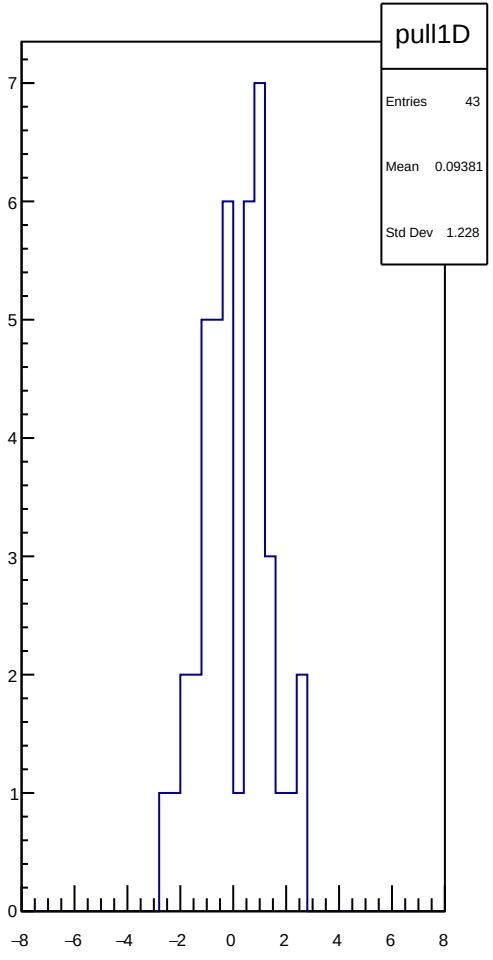

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 889.2 / 42
p0 16.42 ± 0.3066
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 38.27
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.04689
Std Dev 1.602
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

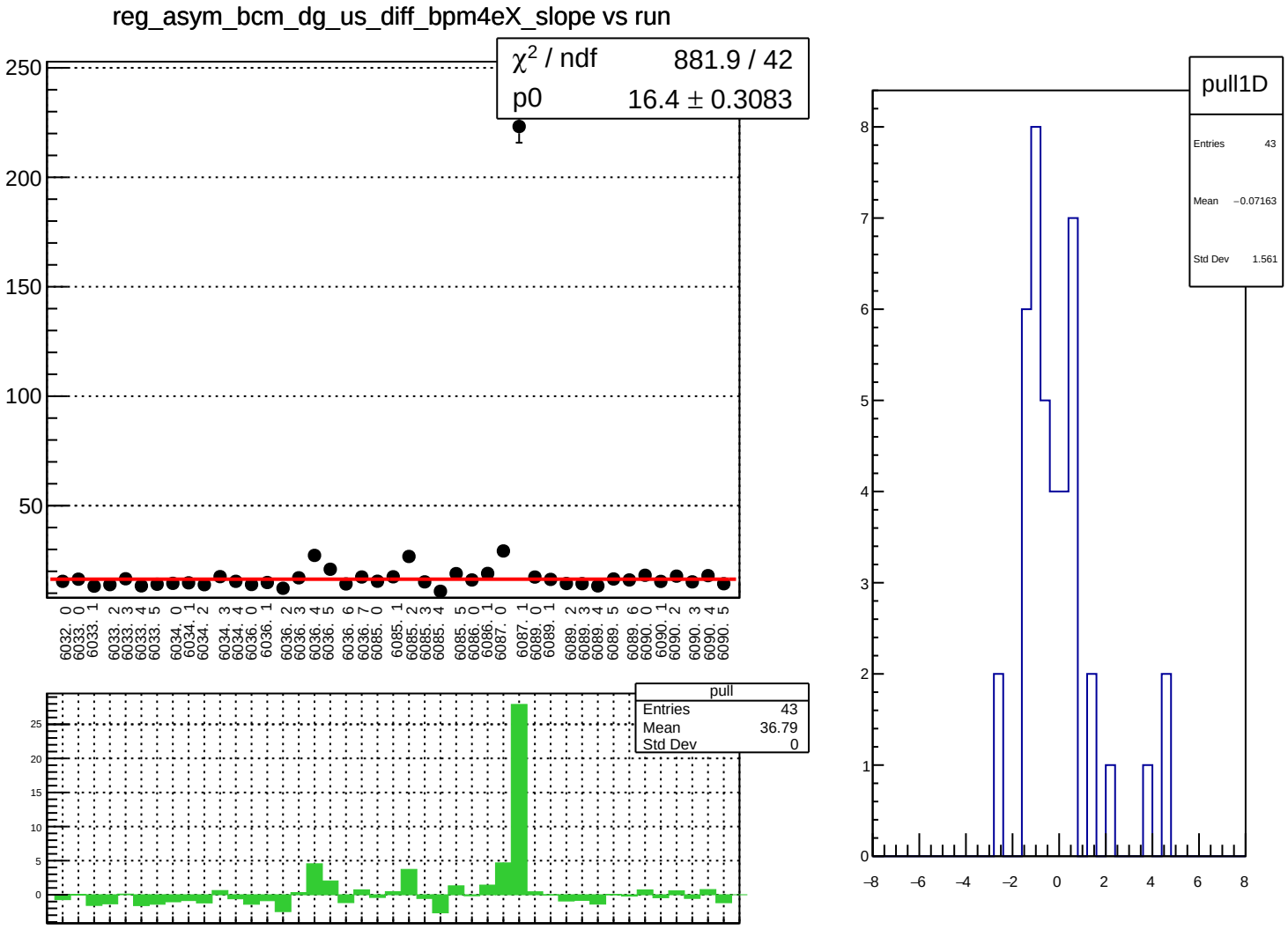

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 76.89 / 42
p0 −4.414 ± 0.3029
pull
Entries 43
Mean 54.17
Std Dev 0
pull1D
Entries 43
Mean −0.09743
Std Dev 1.334

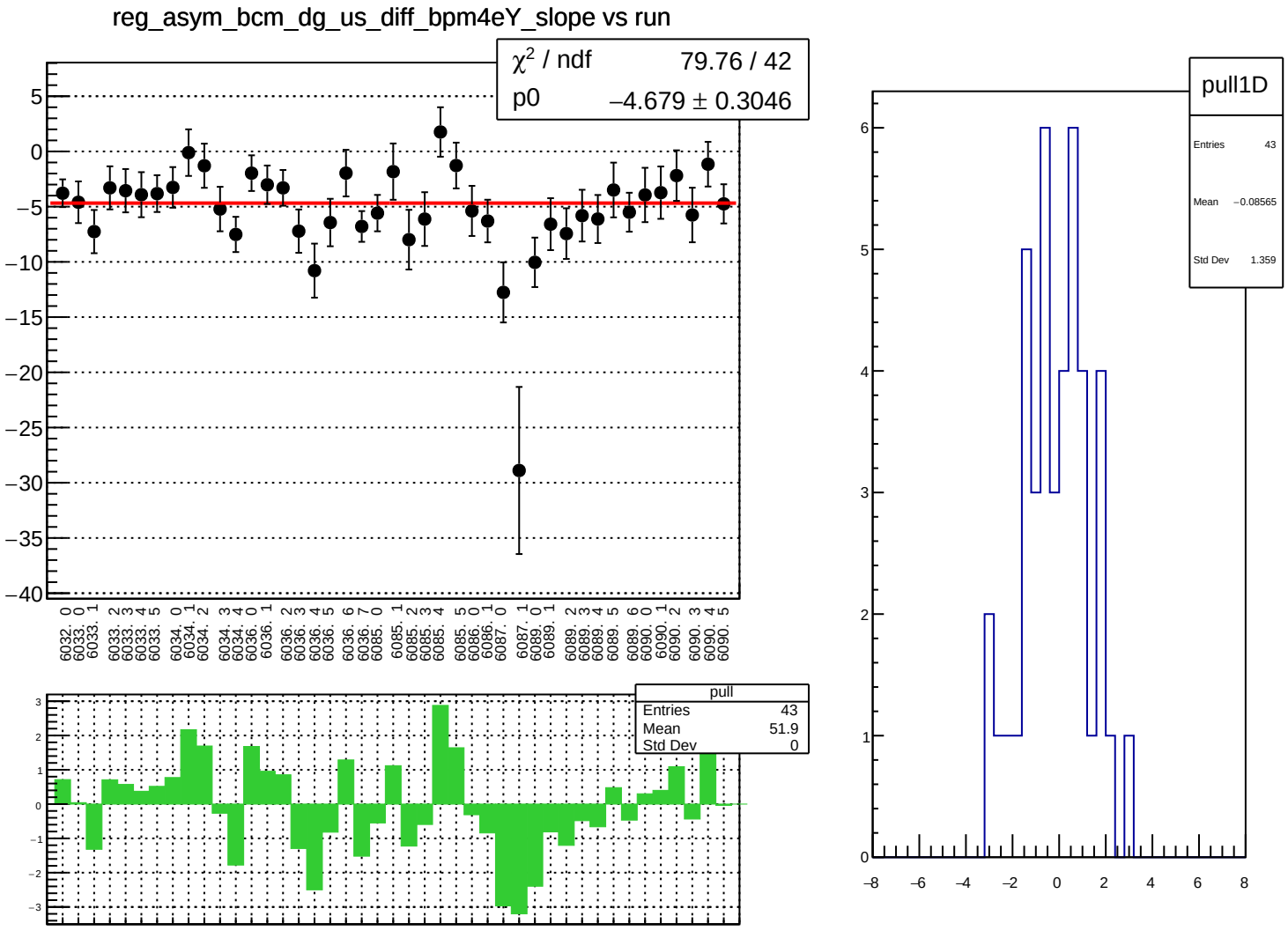

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 240.3 / 42
p0 −0.5415 ± 0.02542
pull
Entries 43
Mean 43.81
Std Dev 0
pull1D
Entries 43
Mean 0.02026
Std Dev 1.216

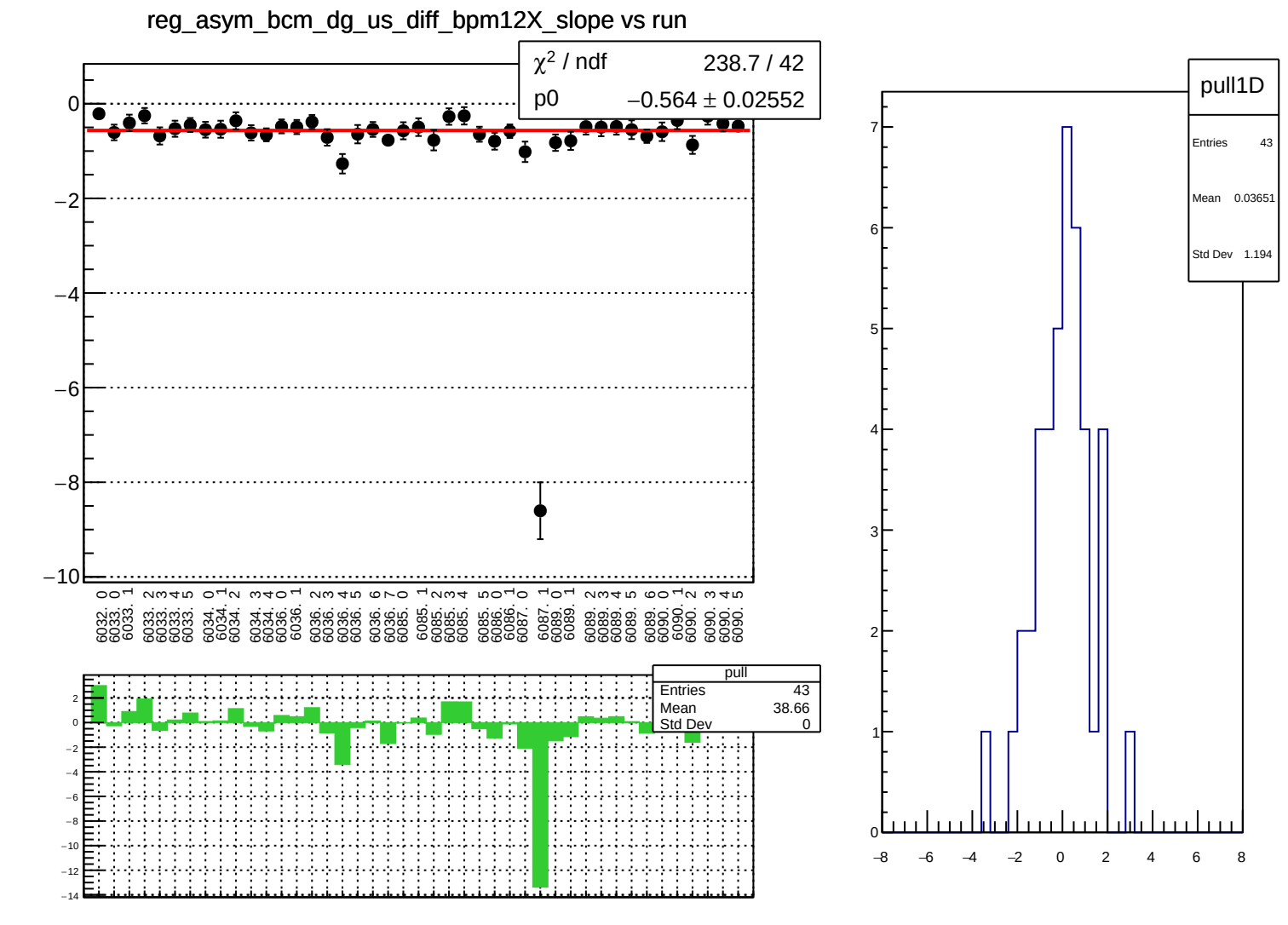

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 887.6 / 42
p0 −15.13 ± 0.2822
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.17
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1191
Std Dev 1.608
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

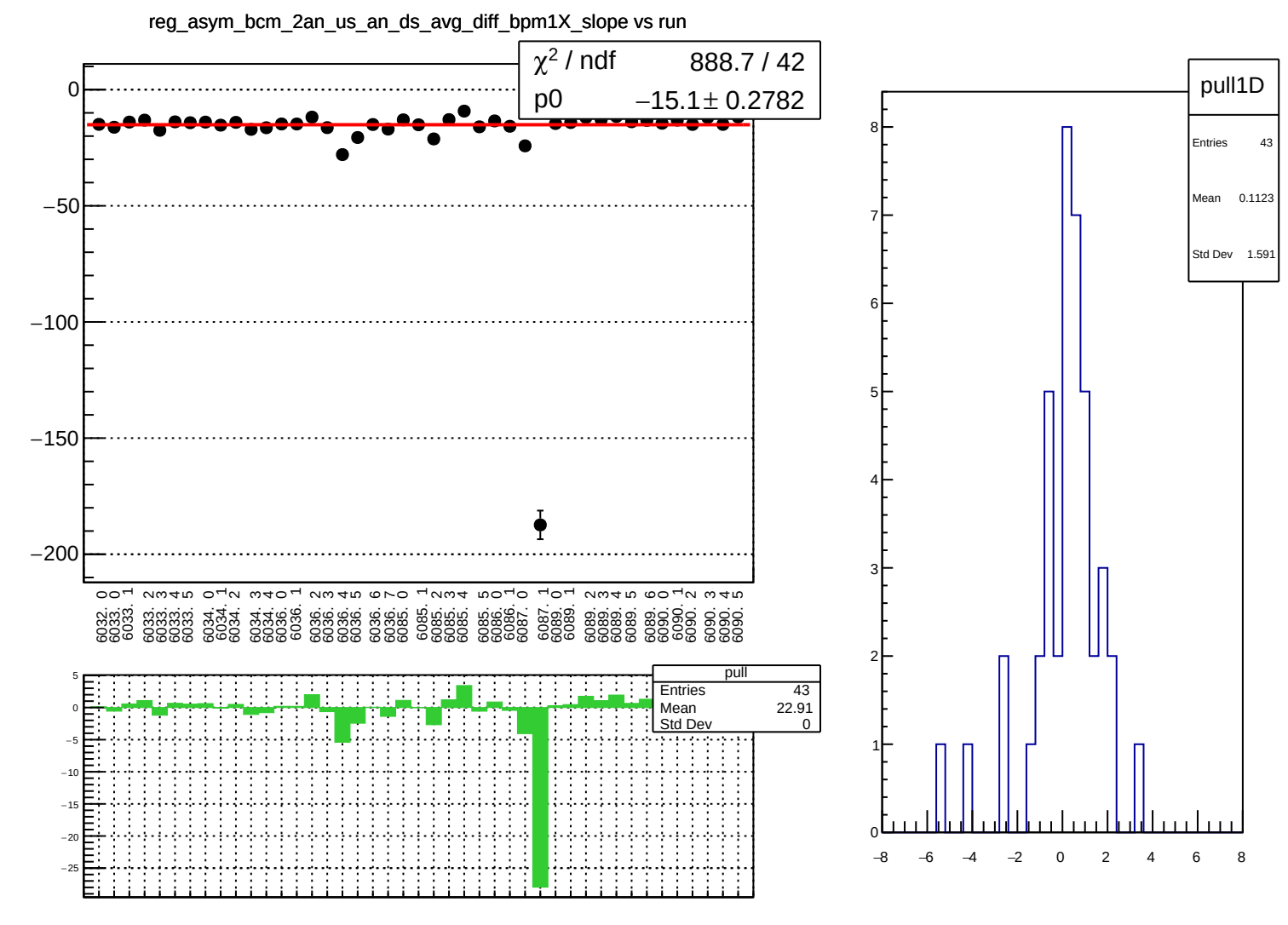

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 65.23 / 42
p0 3.082 ± 0.2796
pull
Entries 43
Mean 66.06
Std Dev 0

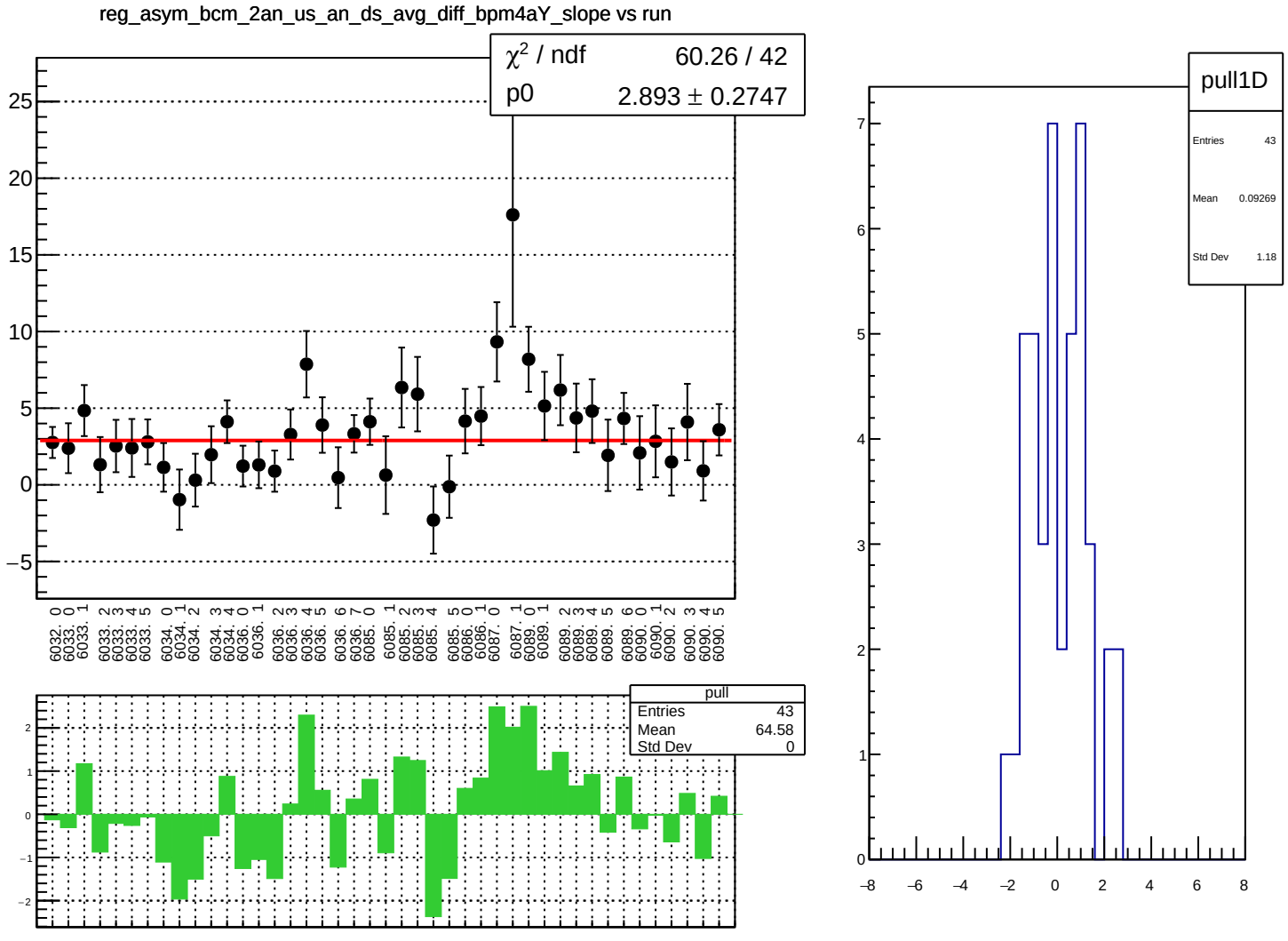

pull1D
Entries 43
Mean 0.09381
Std Dev 1.228

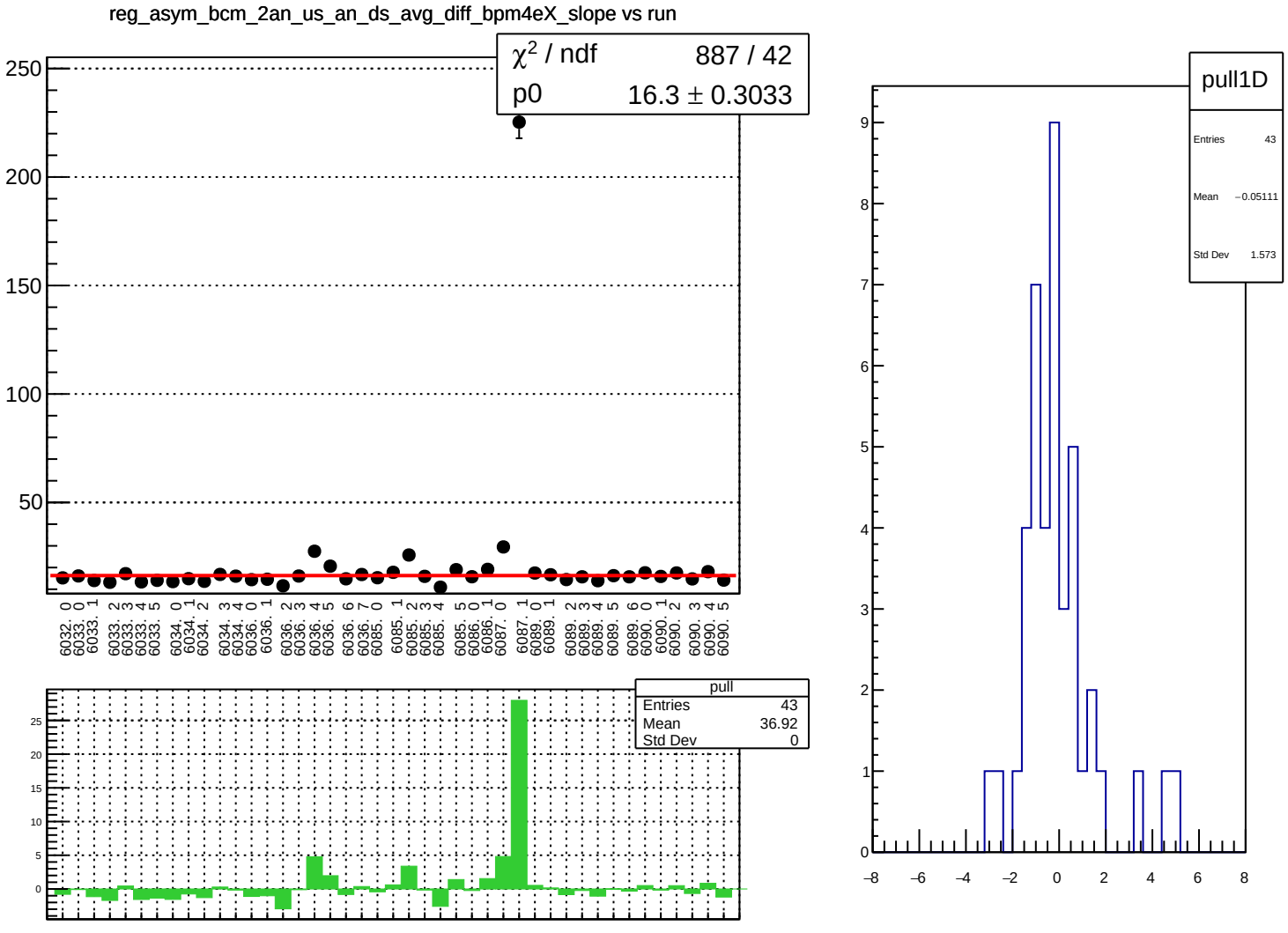

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 881.9 / 42
p0 16.4 ± 0.3083
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.79
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.07163
Std Dev 1.561
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

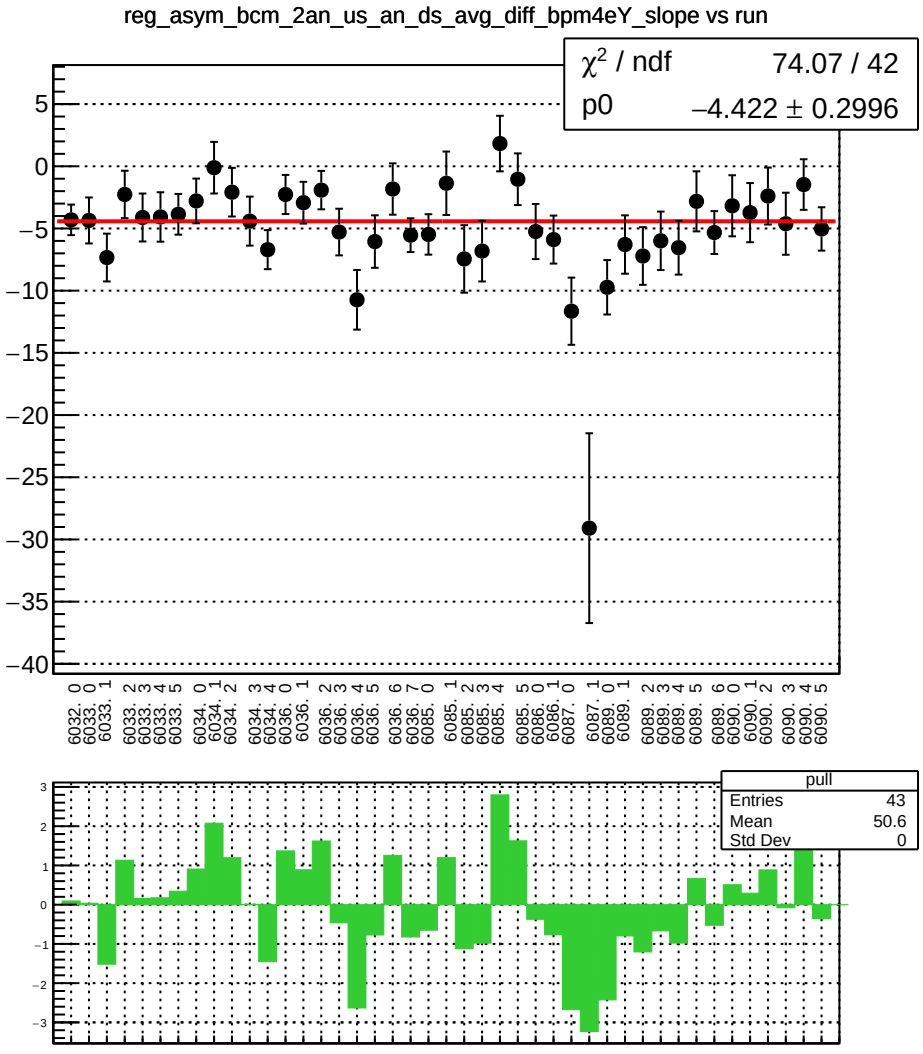

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 79.76 / 42
p0 −4.679 ± 0.3046
pull
Entries 43
Mean 51.9
Std Dev 0
pull1D
Entries 43
Mean −0.08565
Std Dev 1.359

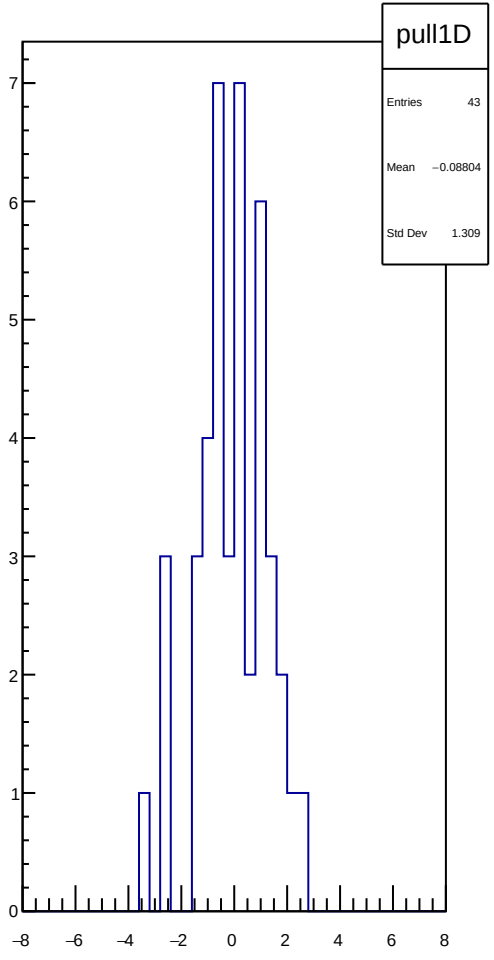

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 238.7 / 42
p0 −0.564 ± 0.02552
pull
Entries 43
Mean 38.66
Std Dev 0
pull1D
Entries 43
Mean 0.03651
Std Dev 1.194

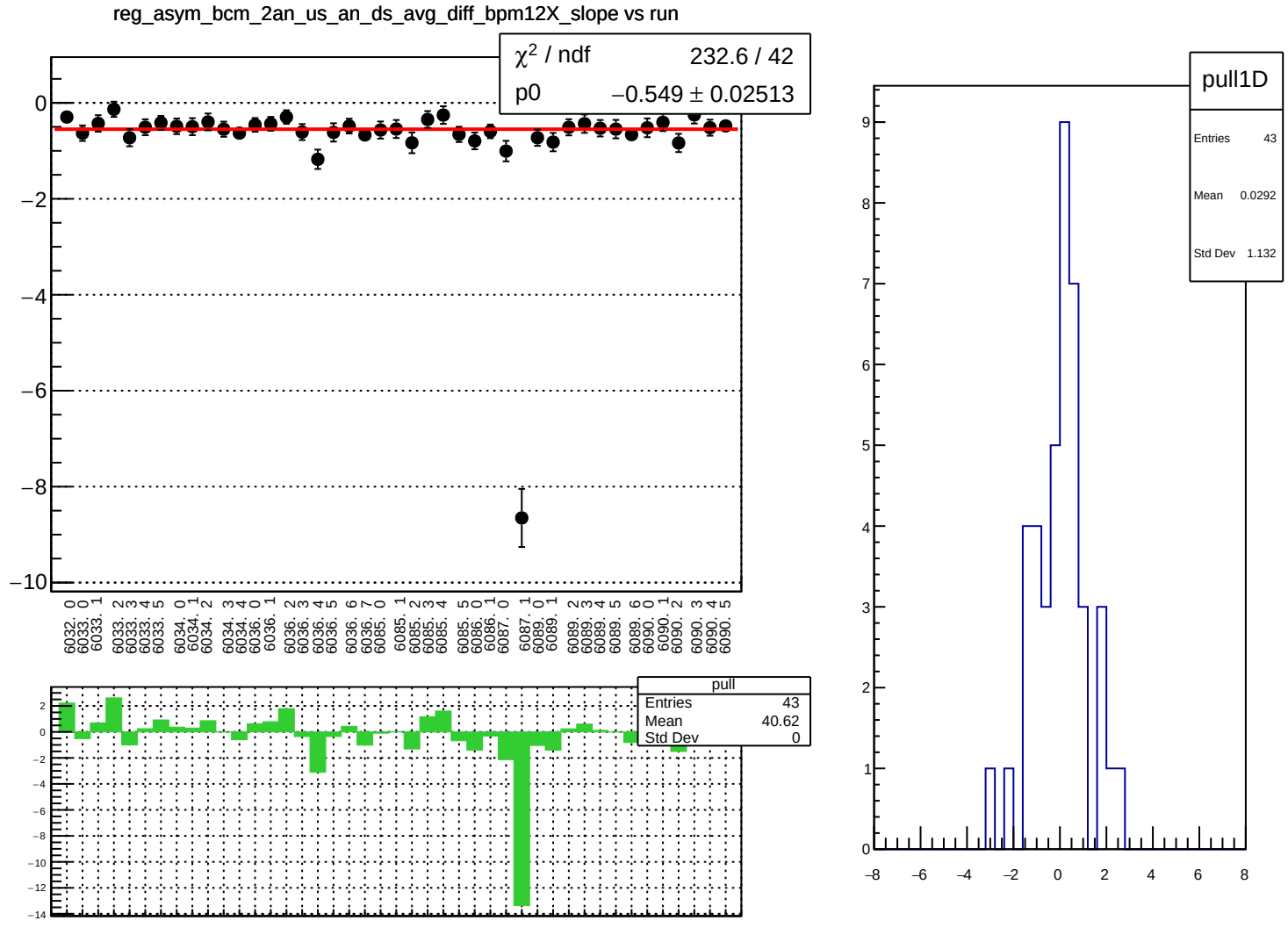

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 888.7 / 42
p0 −15.1 ± 0.2782
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.91
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1123
Std Dev 1.591
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

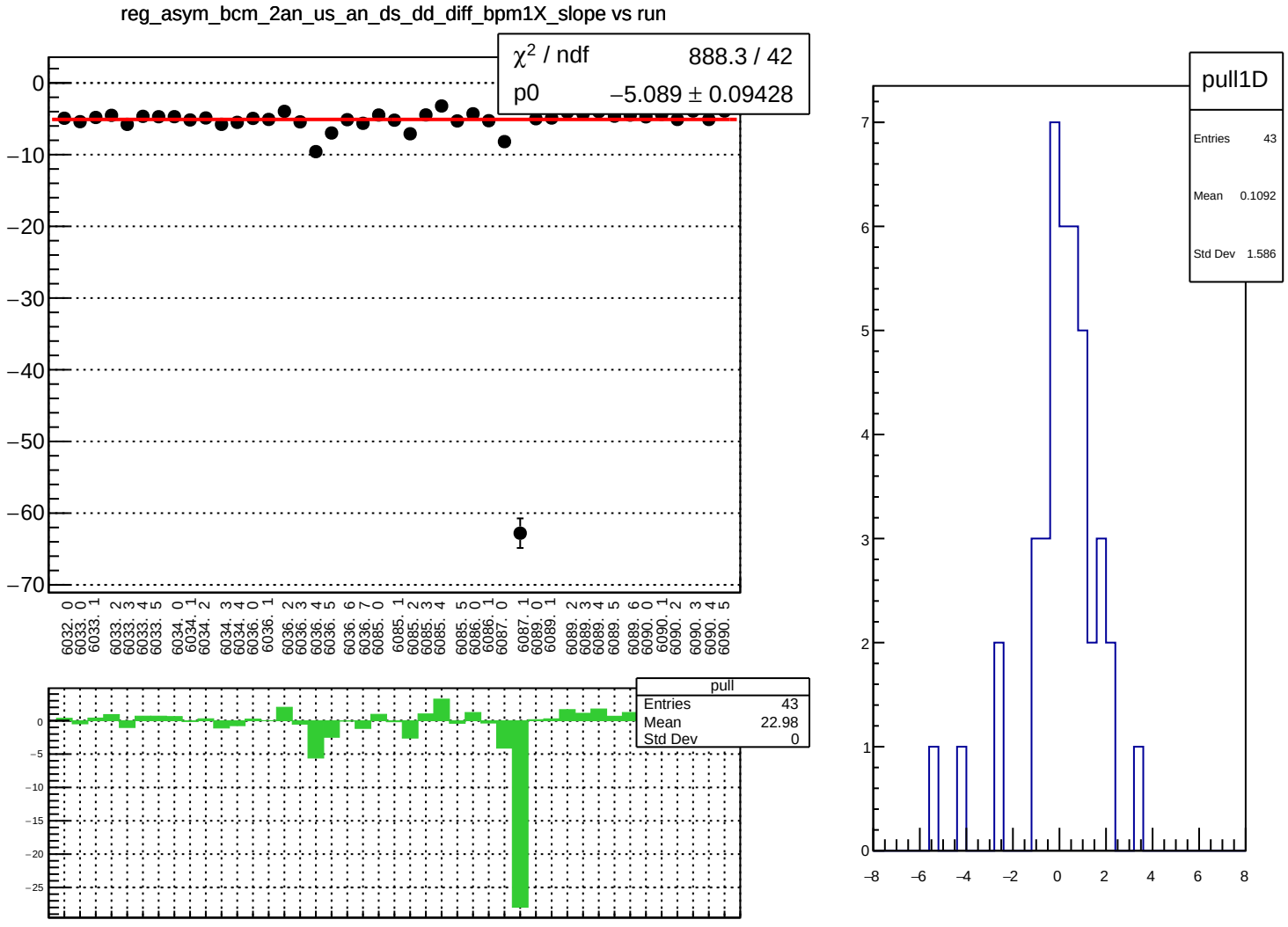

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.26 / 42
p0 2.893 ± 0.2747
pull
Entries 43
Mean 64.58
Std Dev 0
pull1D
Entries 43
Mean 0.09269
Std Dev 1.18

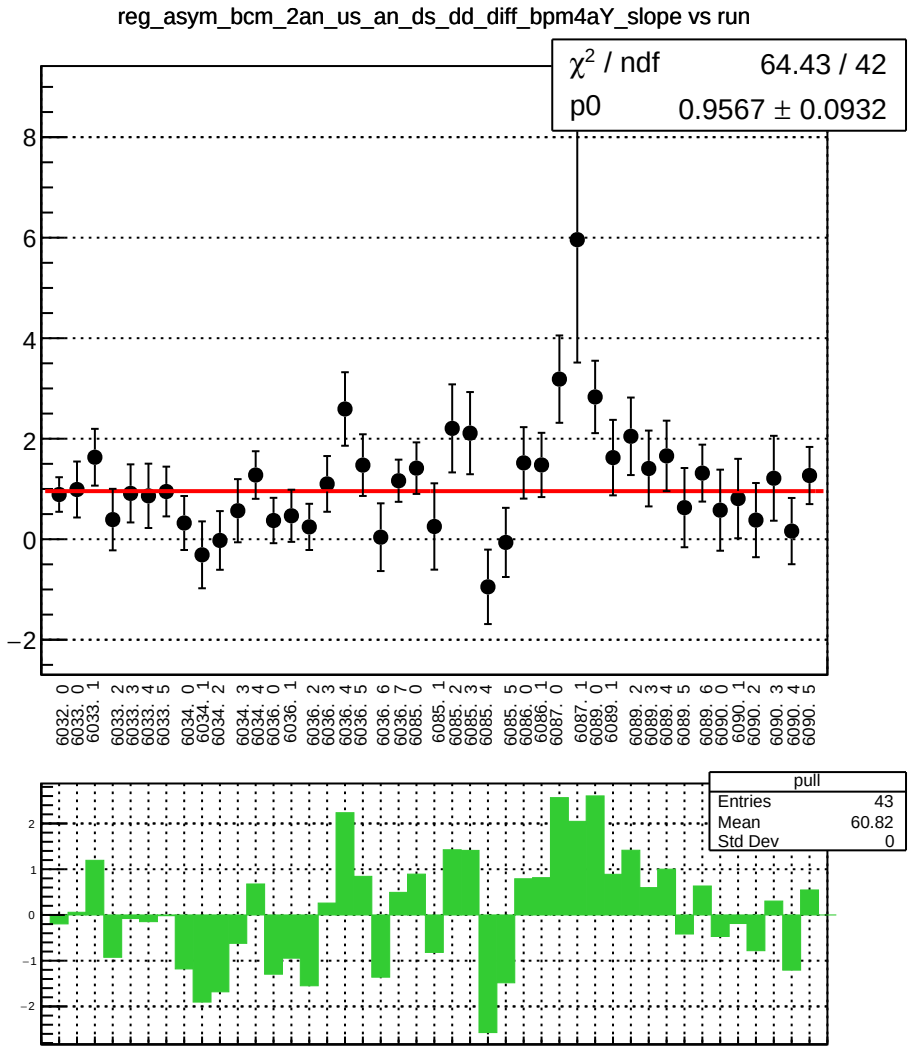

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 887 / 42
p0 16.3 ± 0.3033
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.92
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.05111
Std Dev 1.573
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

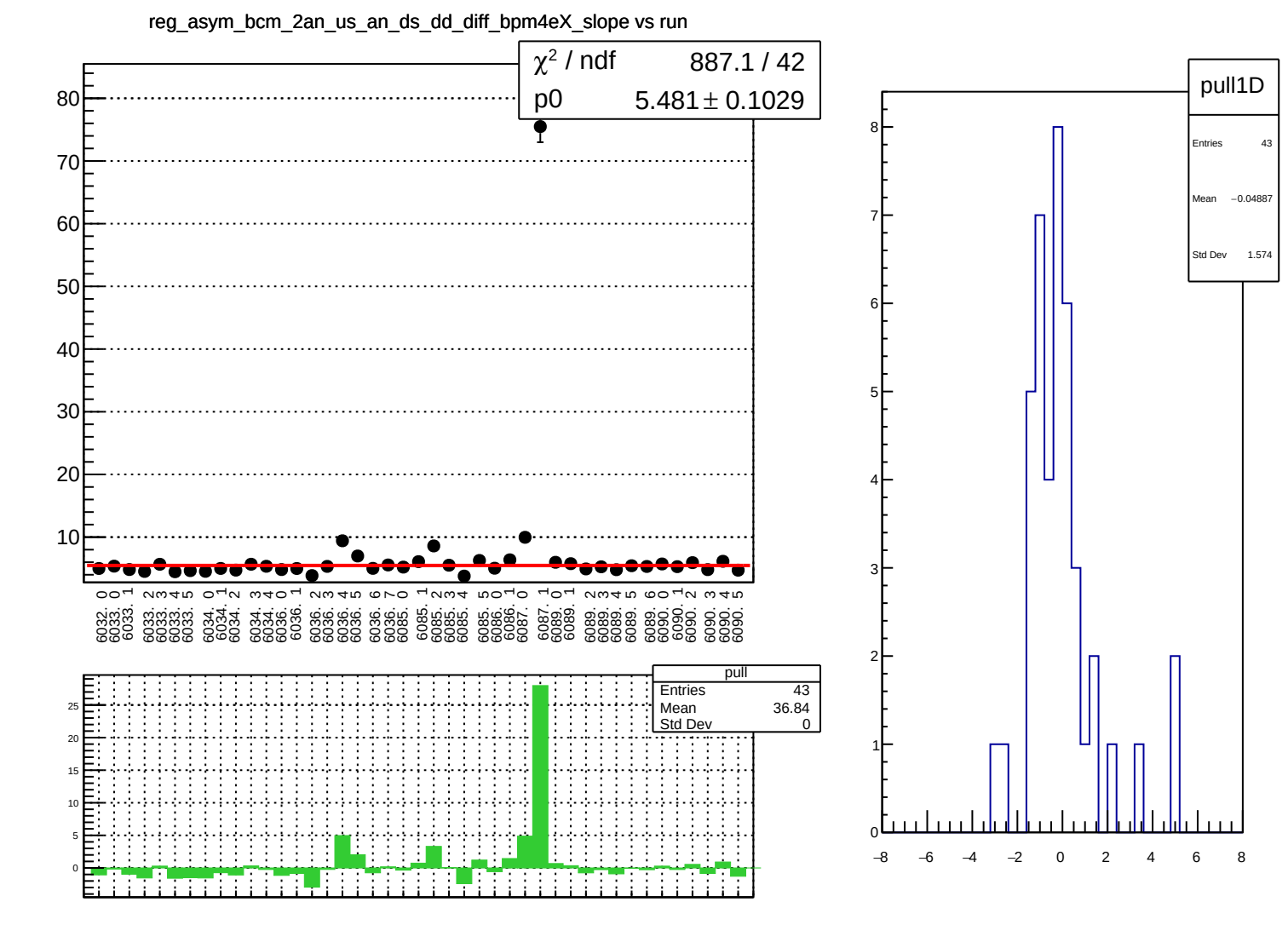

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.07 / 42
p0 −4.422 ± 0.2996
pull
Entries 43
Mean 50.6
Std Dev 0

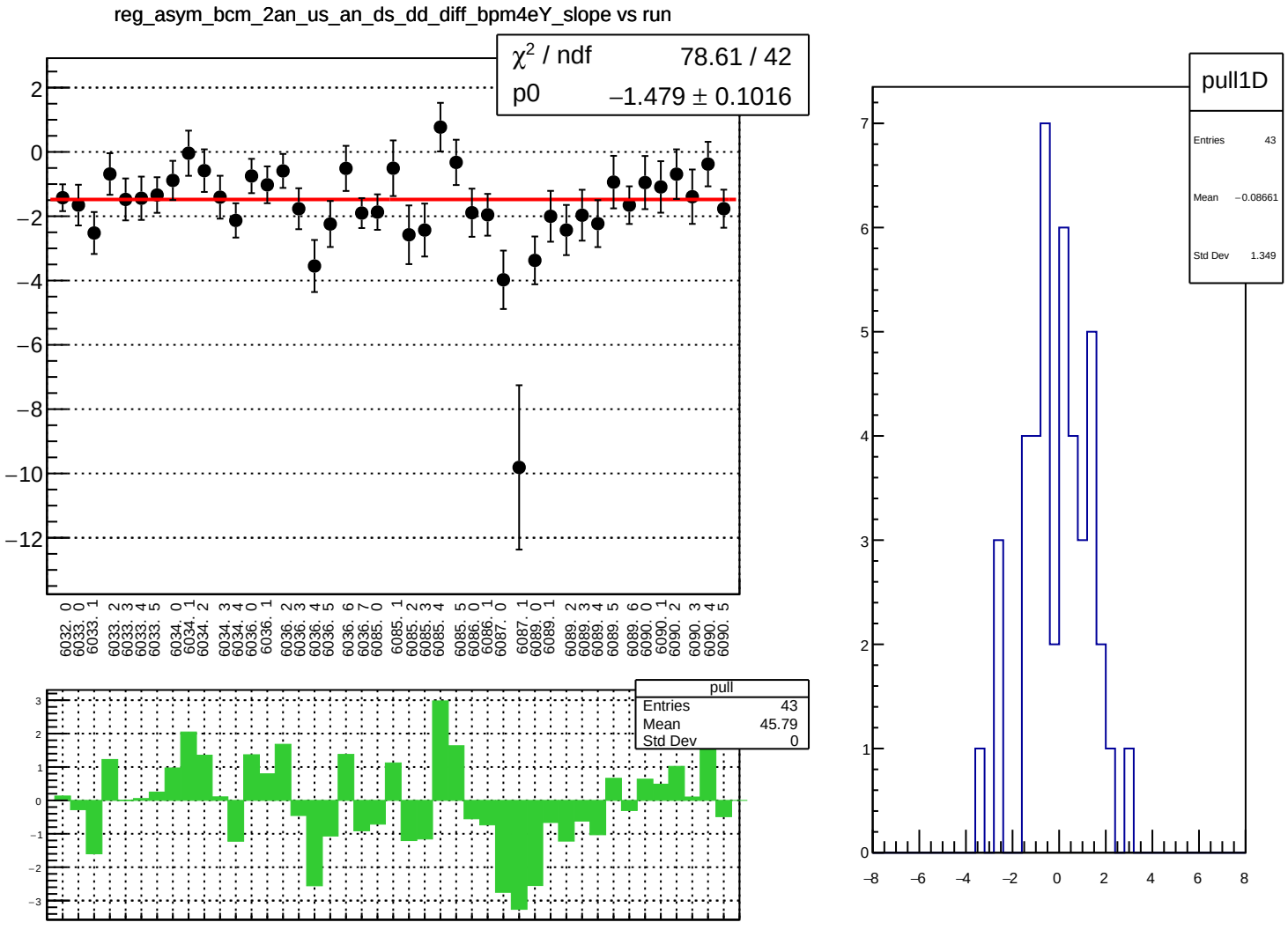

pull1D
Entries 43
Mean −0.08804
Std Dev 1.309

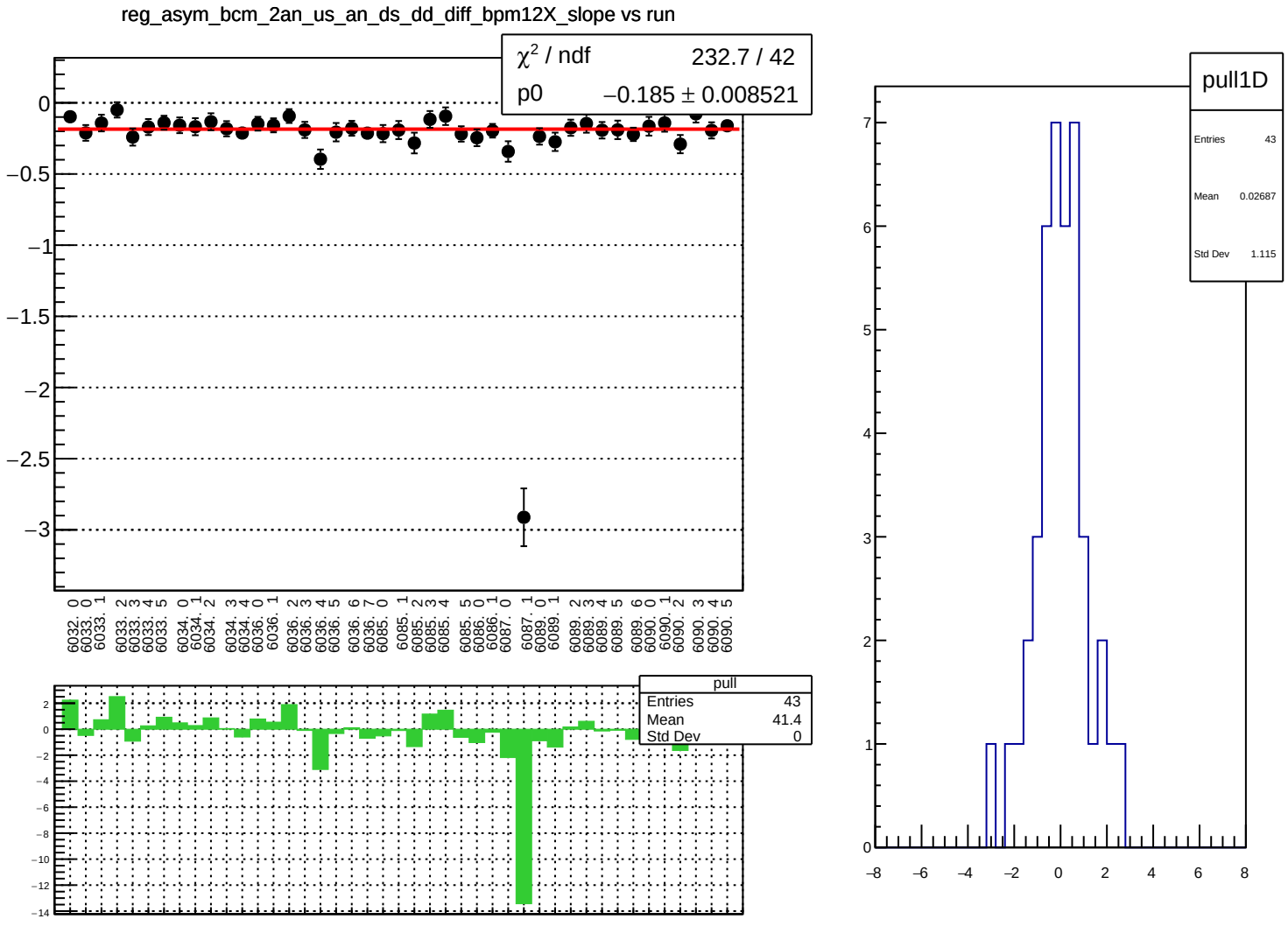

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 232.6 / 42
p0 −0.549 ± 0.02513
pull
Entries 43
Mean 40.62
Std Dev 0
pull1D
Entries 43
Mean 0.0292
Std Dev 1.132

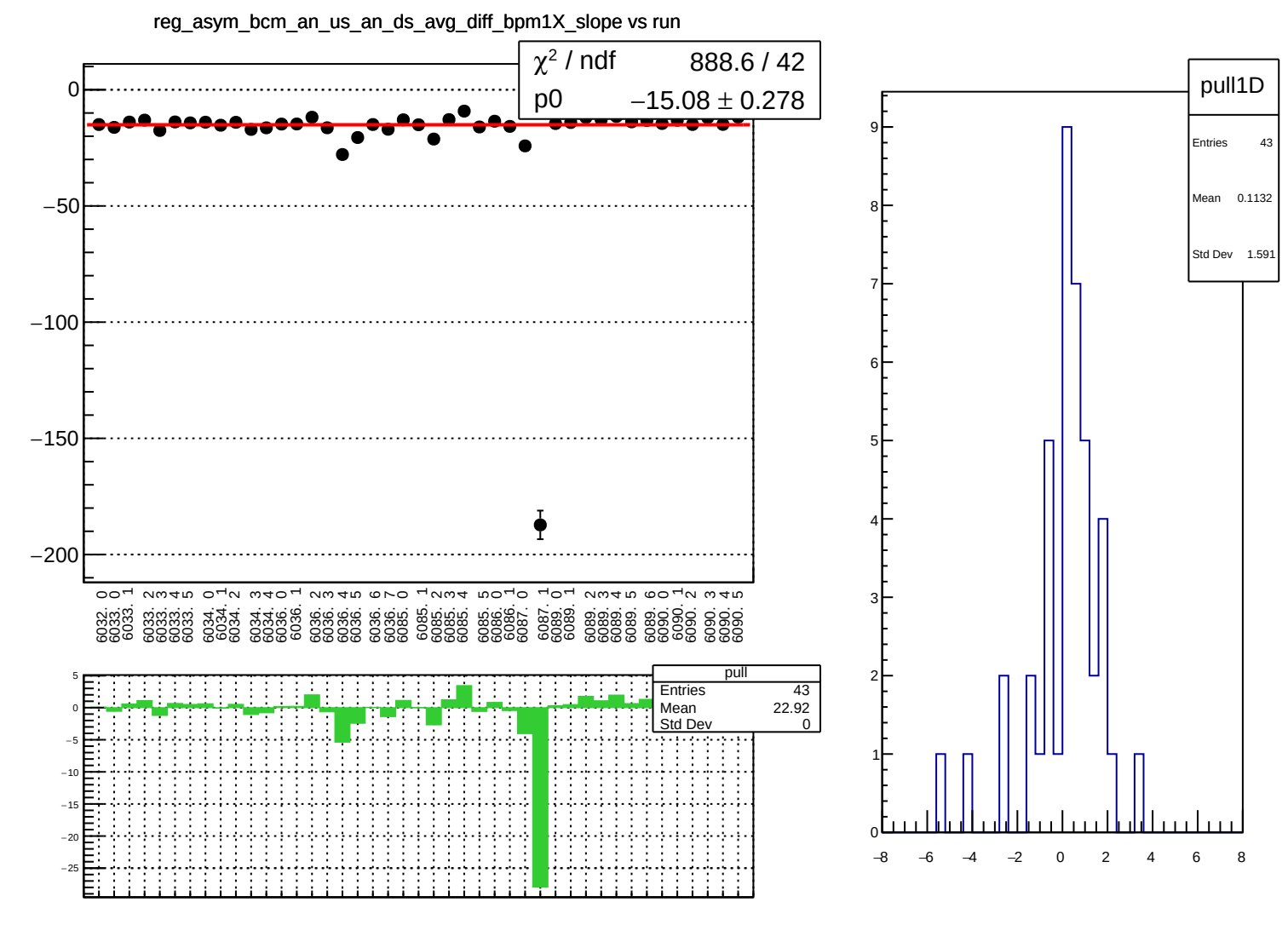

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 888.3 / 42
p0 −5.089 ± 0.09428
pull
Entries 43
Mean 22.98
Std Dev 0
pull1D
Entries 43
Mean 0.1092
Std Dev 1.586

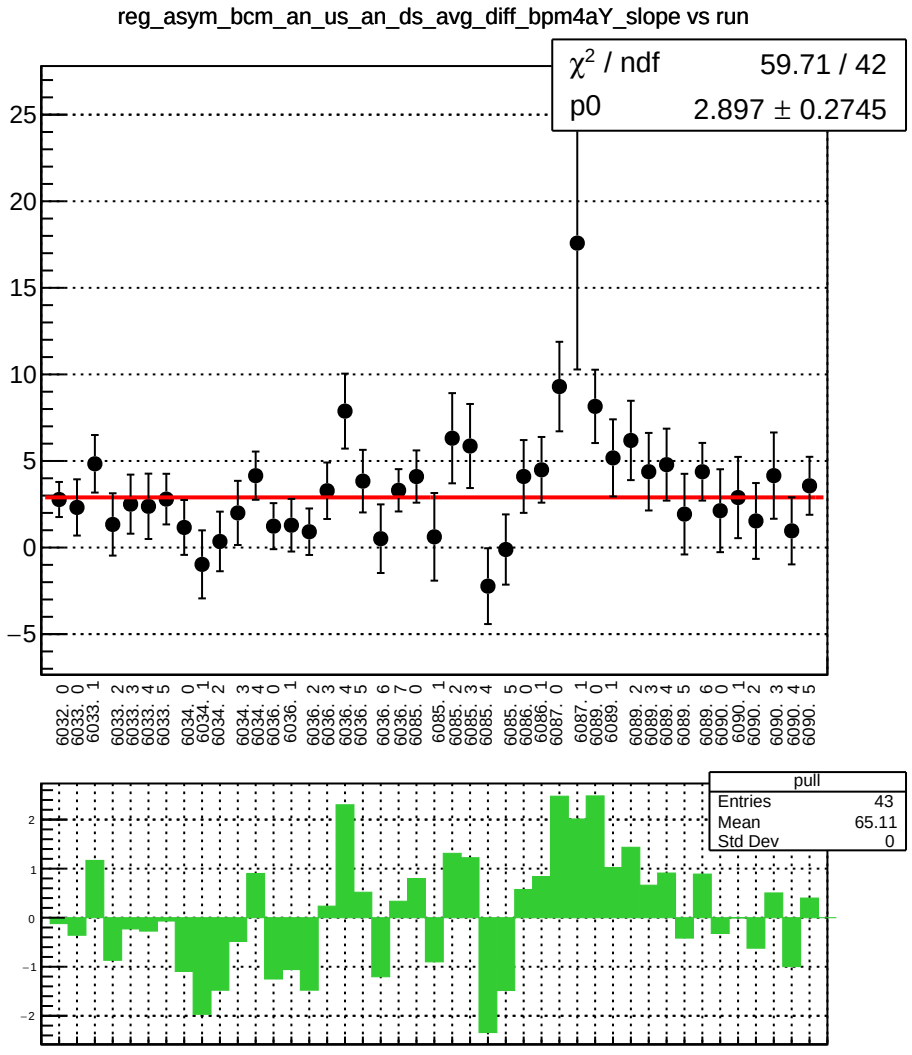

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.43 / 42
p0 0.9567 ± 0.0932
pull
Entries 43
Mean 60.82
Std Dev 0
pull1D
Entries 43
Mean 0.09004
Std Dev 1.221

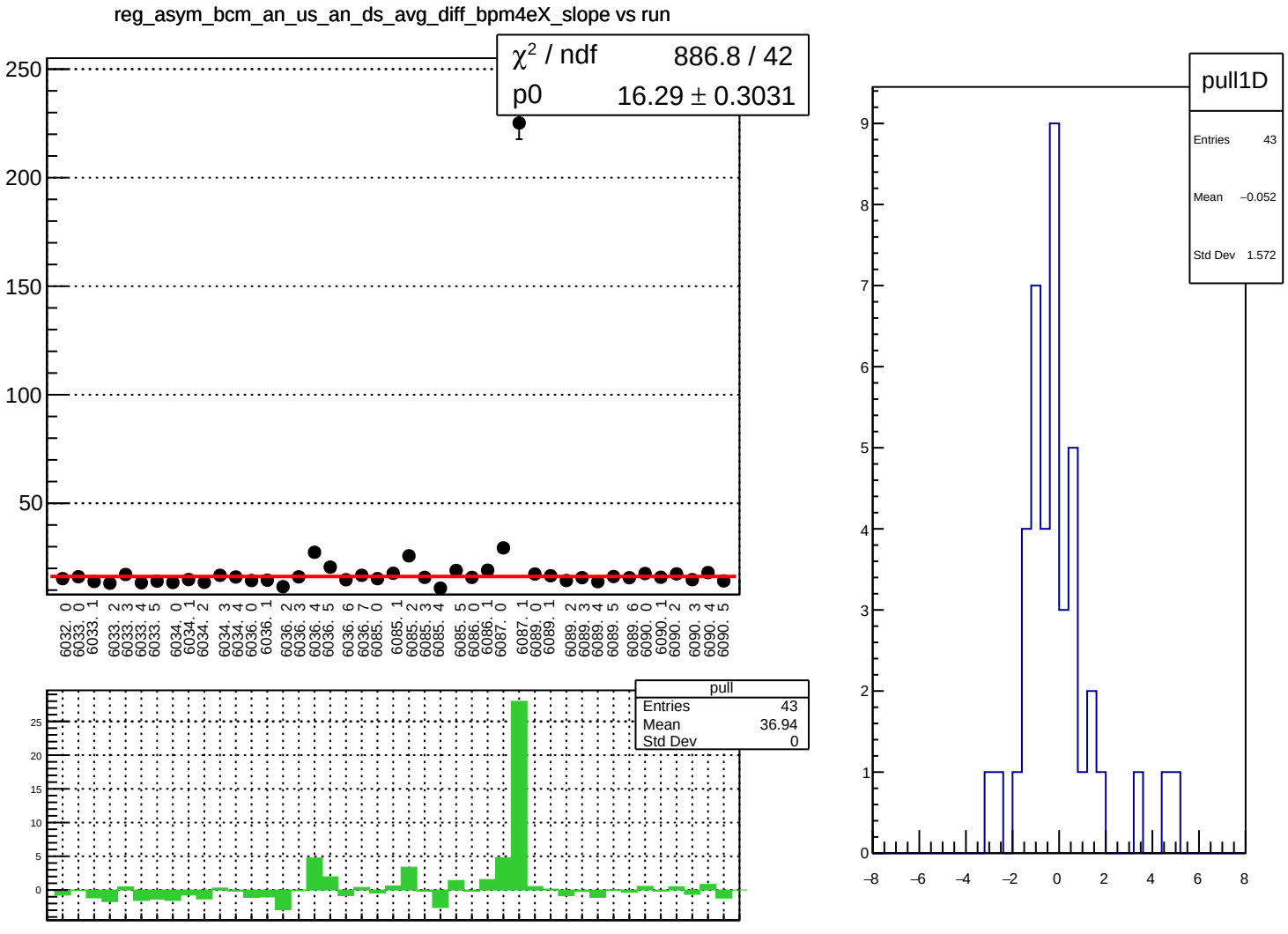

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 887.1 / 42
p0 5.481 ± 0.1029
pull
Entries 43
Mean 36.84
Std Dev 0
pull1D
Entries 43
Mean −0.04887
Std Dev 1.574

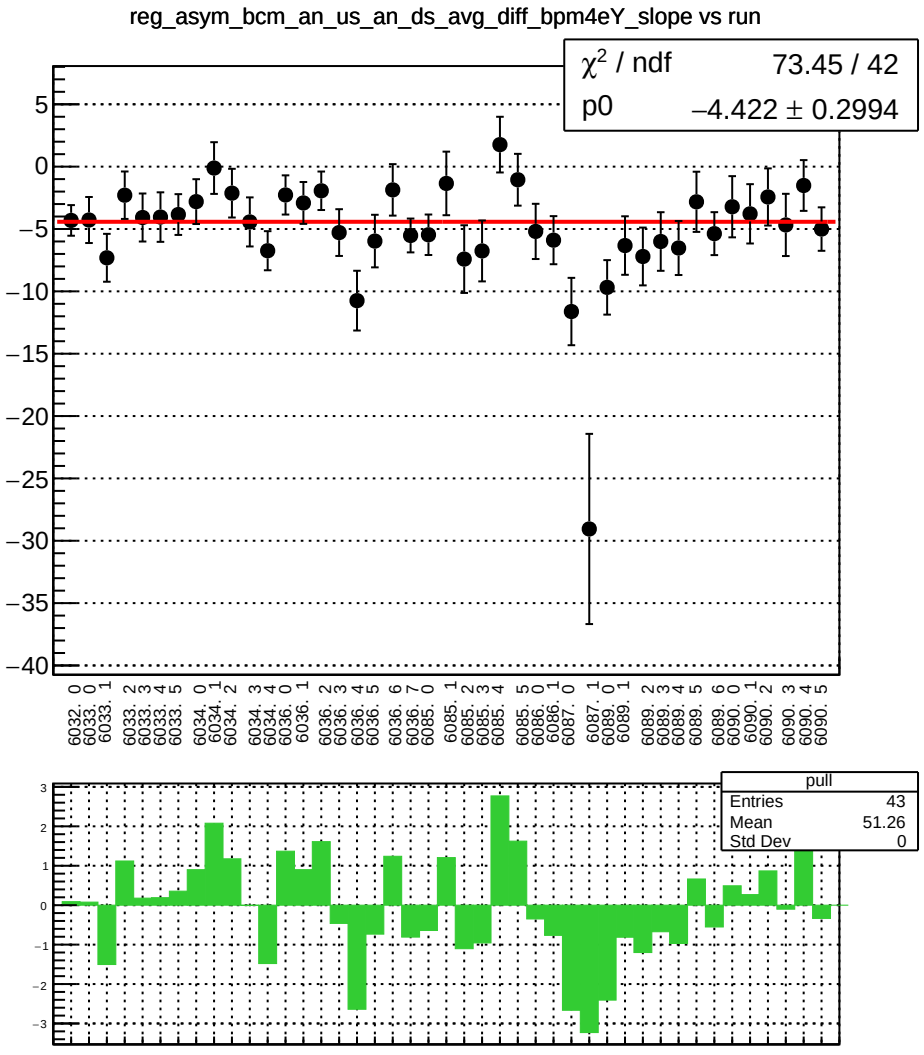

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.61 / 42
p0 −1.479 ± 0.1016
pull
Entries 43
Mean 45.79
Std Dev 0
pull1D
Entries 43
Mean −0.08661
Std Dev 1.349

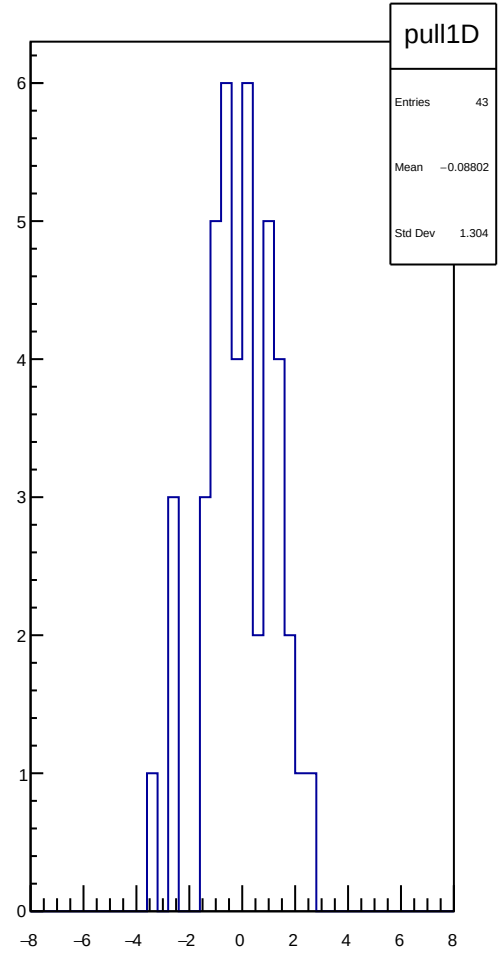

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 232.7 / 42
p0 −0.185 ± 0.008521
pull
Entries 43
Mean 41.4
Std Dev 0
pull1D
Entries 43
Mean 0.02687
Std Dev 1.115

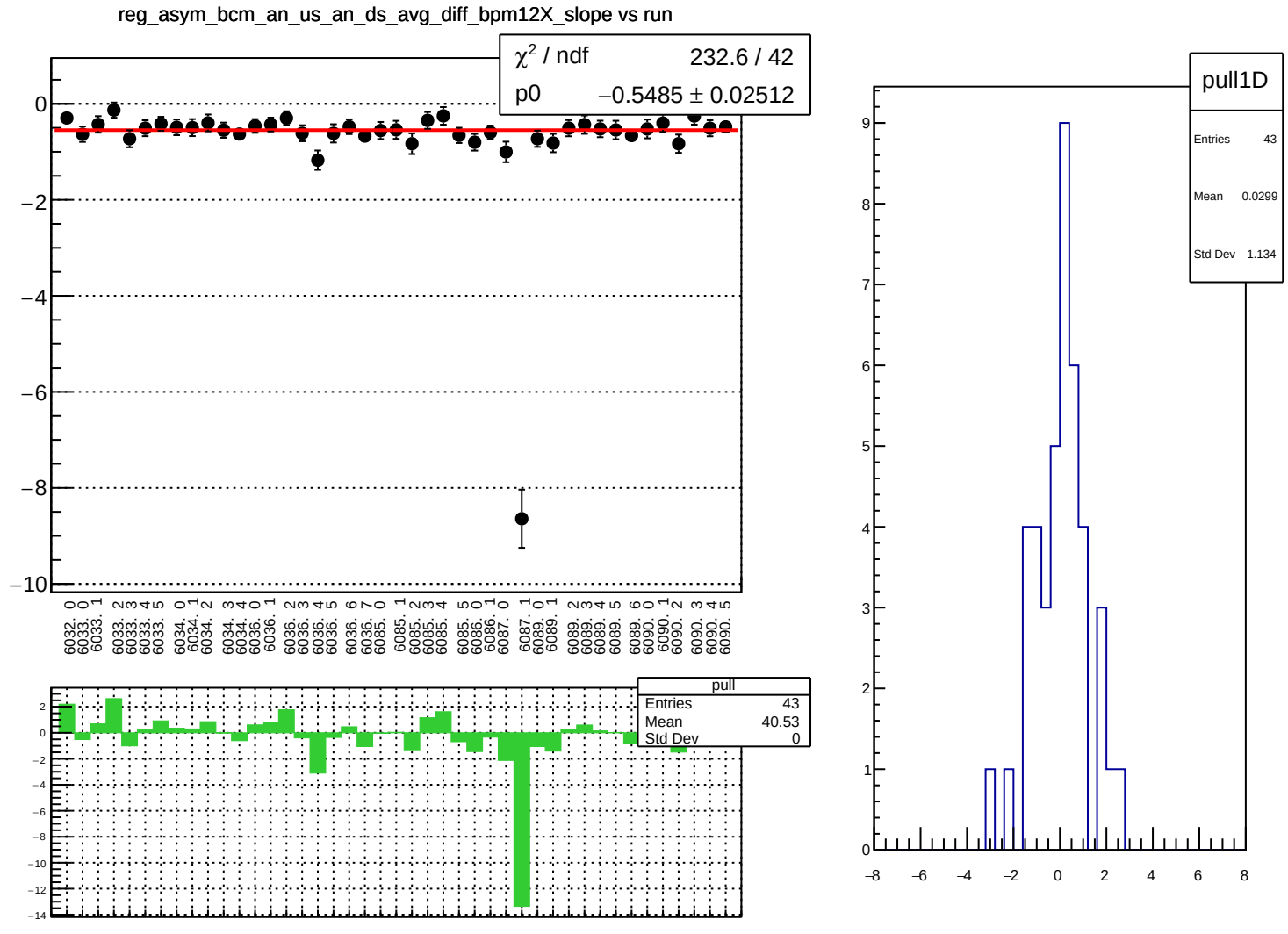

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 888.6 / 42
p0 −15.08 ± 0.278
0
−50
−100
−150
−200
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 22.92
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0.1132
Std Dev 1.591
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

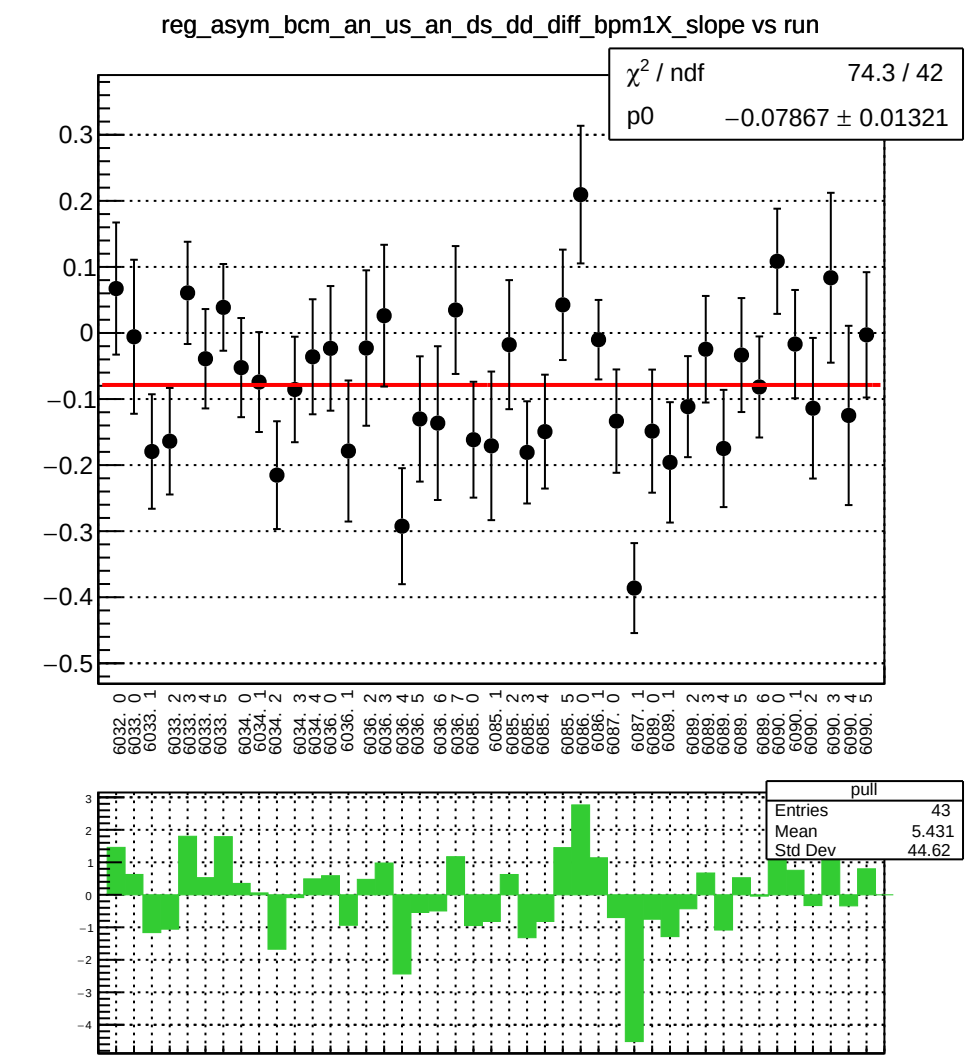

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.71 / 42
p0 2.897 ± 0.2745
pull
Entries 43
Mean 65.11
Std Dev 0
pull1D
Entries 43
Mean 0.09282
Std Dev 1.175

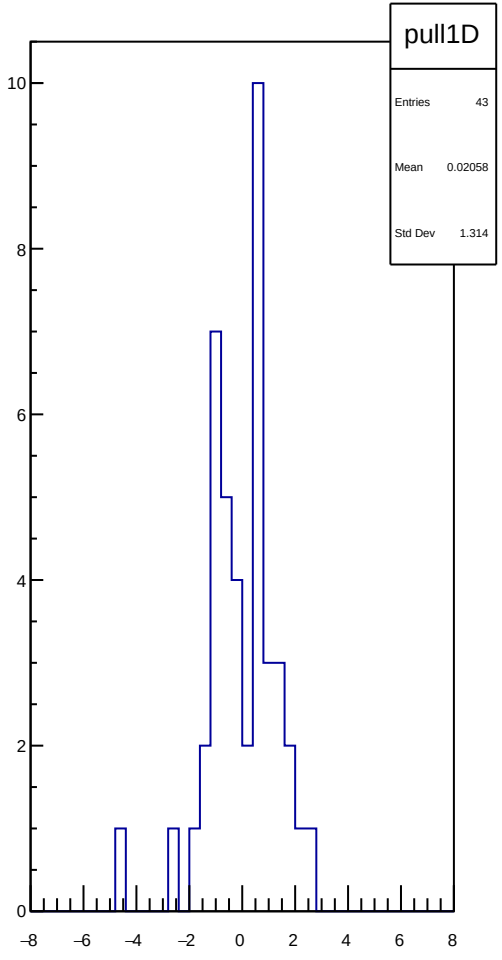

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 886.8 / 42
p0 16.29 ± 0.3031
250
200
150
100
50
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 36.94
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.052
Std Dev 1.572
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

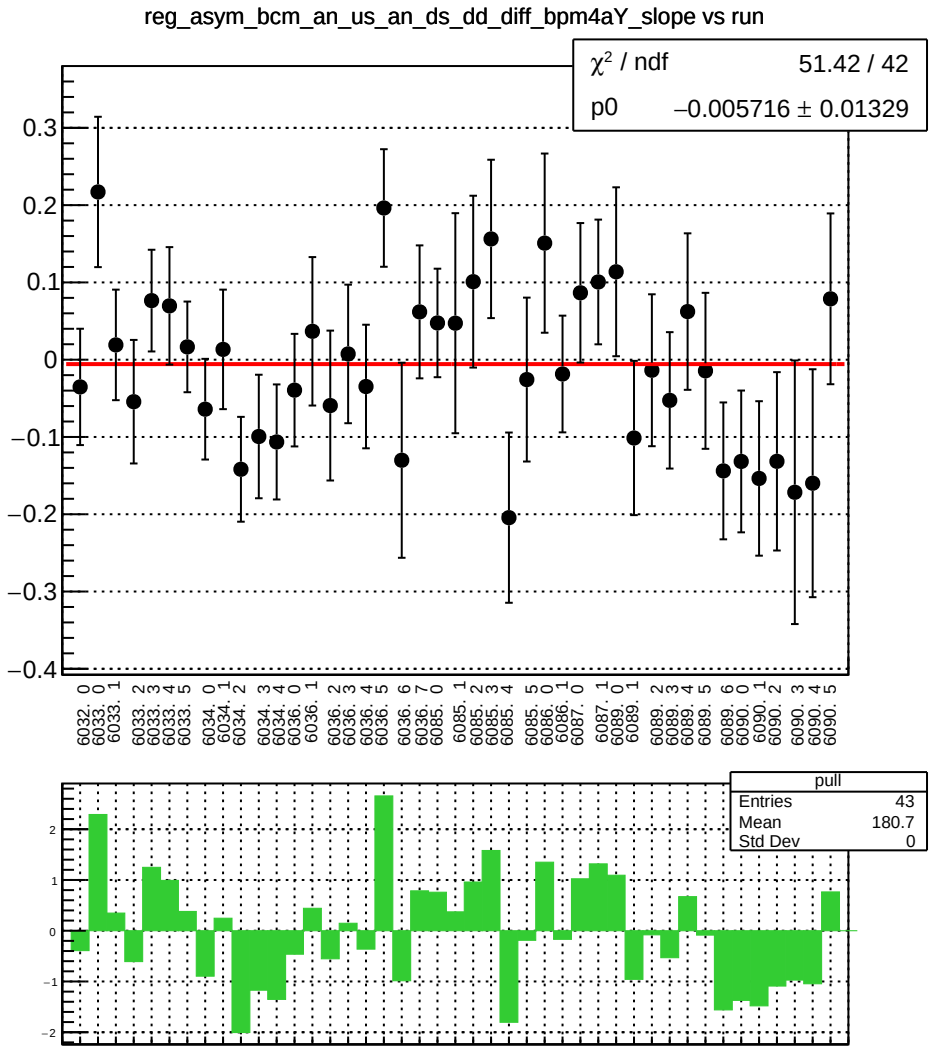

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.45 / 42
p0 −4.422 ± 0.2994
pull
Entries 43
Mean 51.26
Std Dev 0

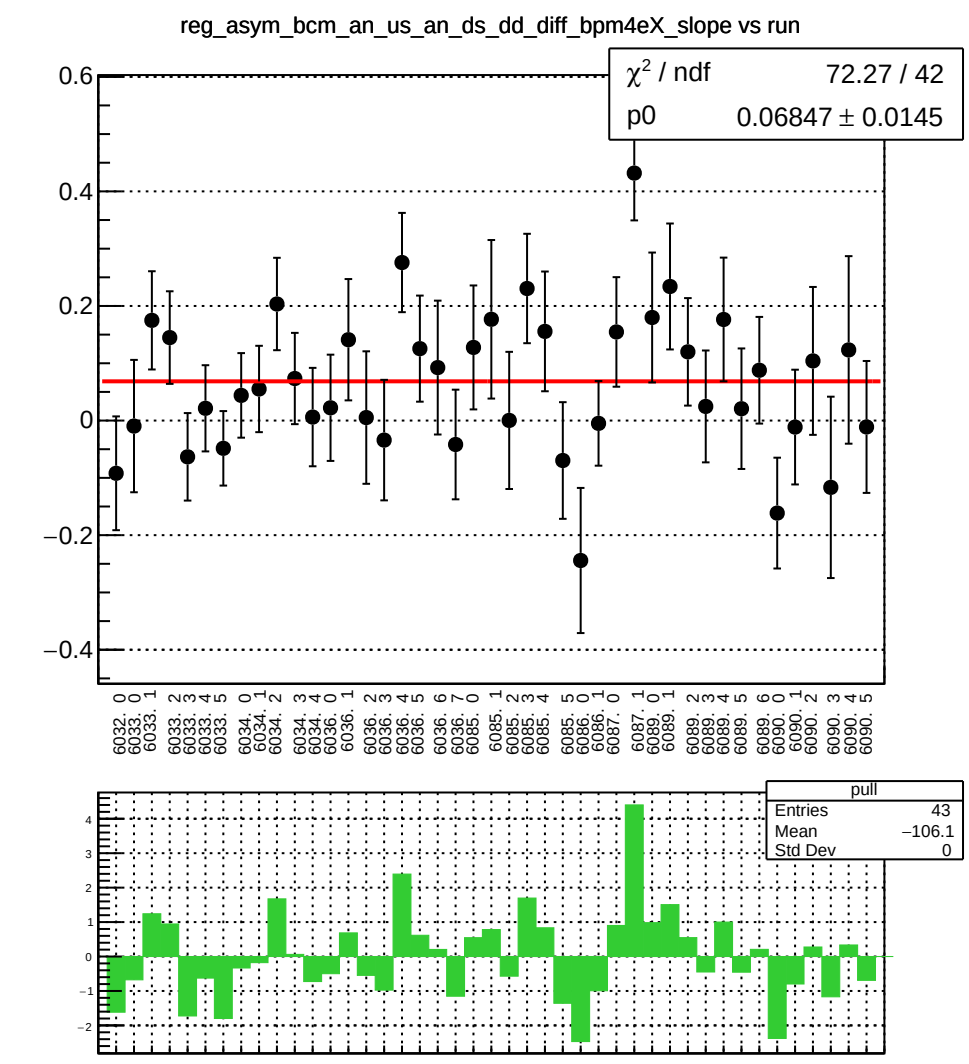

pull1D
Entries 43
Mean −0.08802
Std Dev 1.304

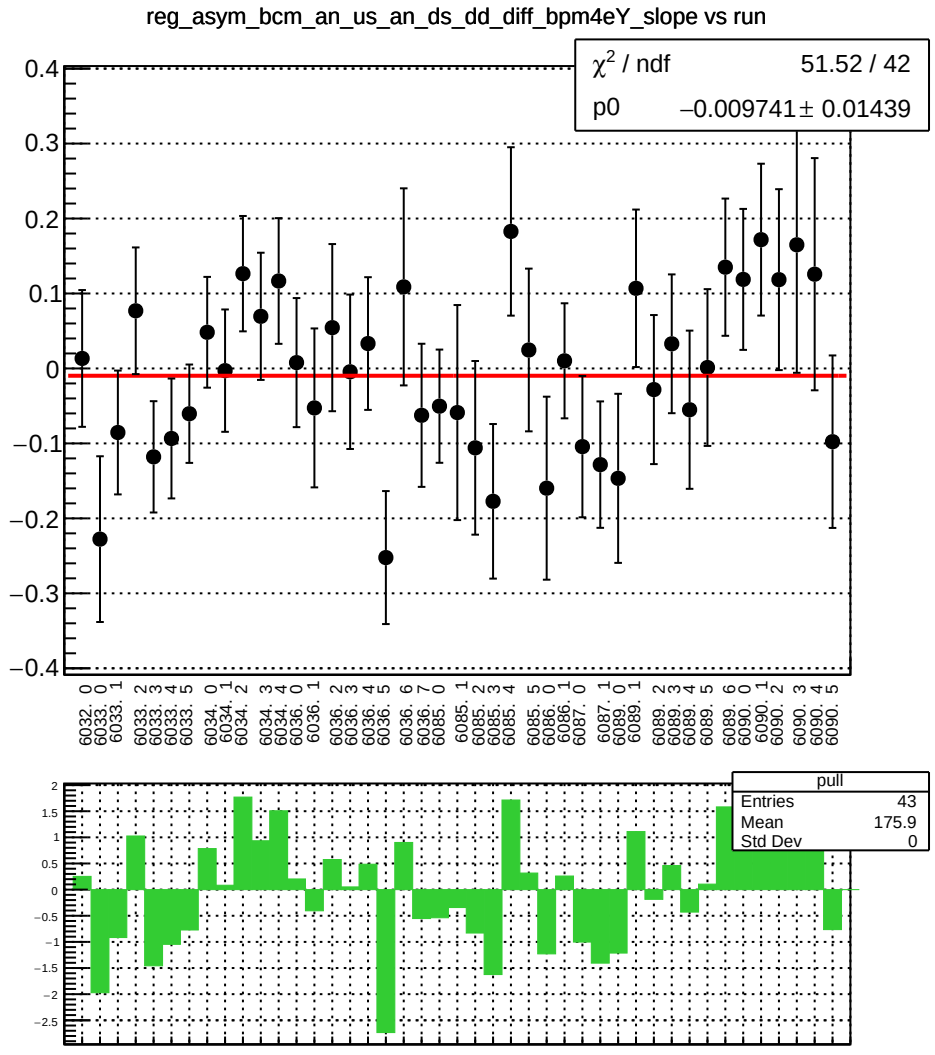

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 232.6 / 42
p0 −0.5485 ± 0.02512
pull
Entries 43
Mean 40.53
Std Dev 0
pull1D
Entries 43
Mean 0.0299
Std Dev 1.134

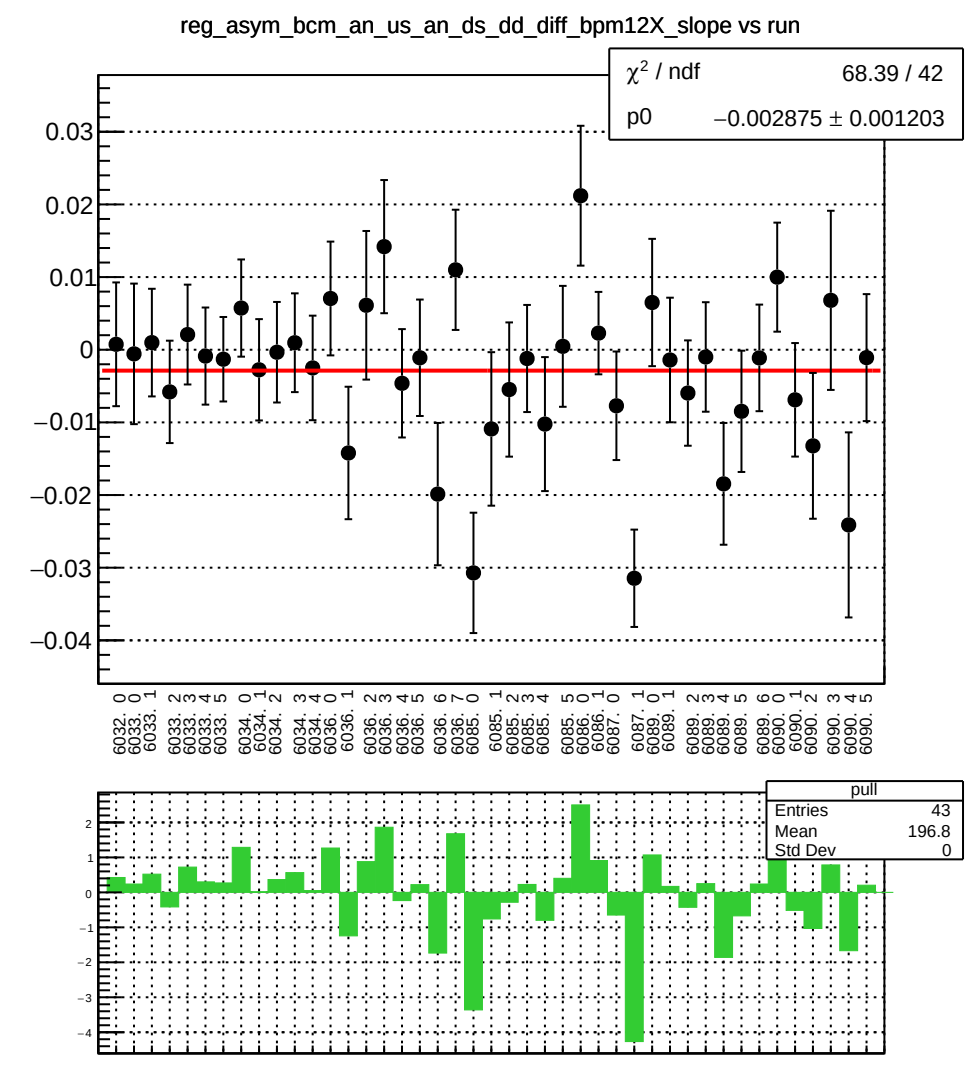

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 74.3 / 42
p0 −0.07867 ± 0.01321
pull
Entries 43
Mean 5.431
Std Dev 44.62

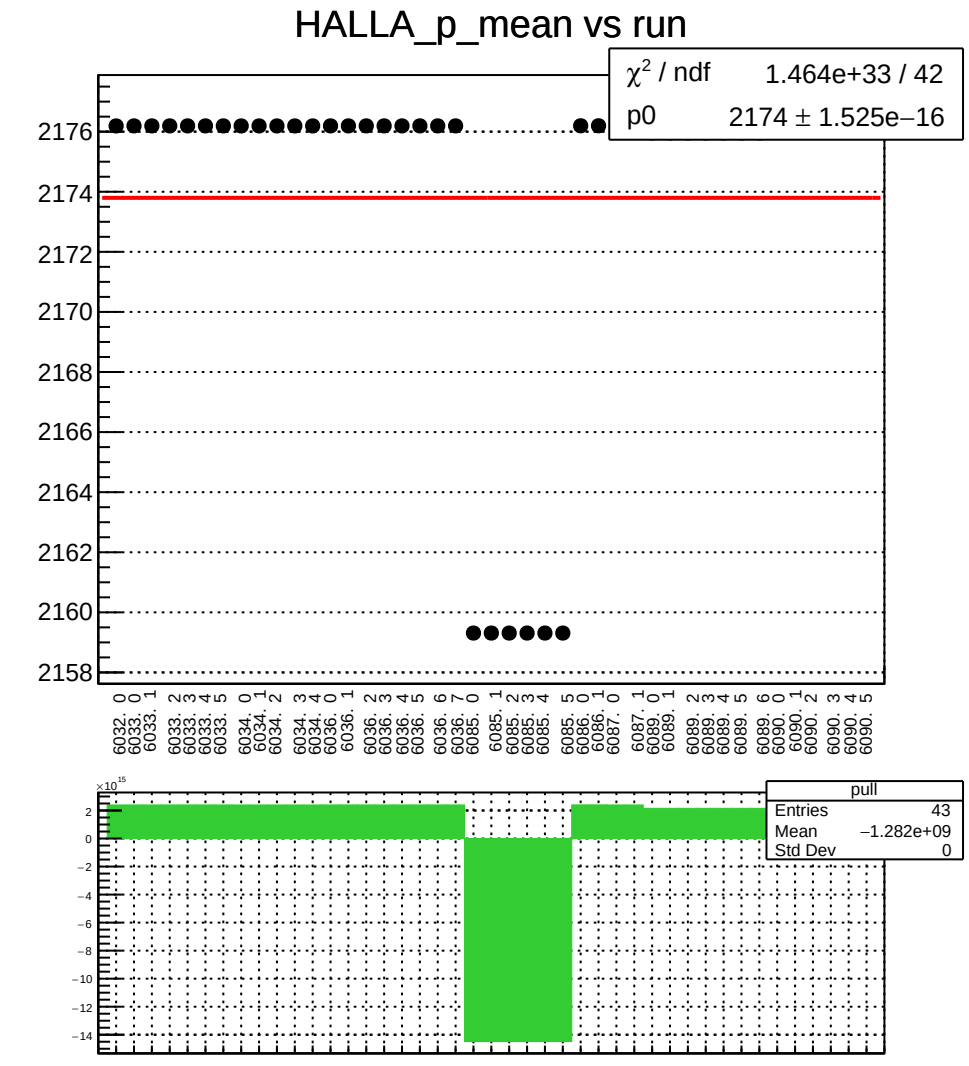

pull1D
Entries 43
Mean 0.02058
Std Dev 1.314

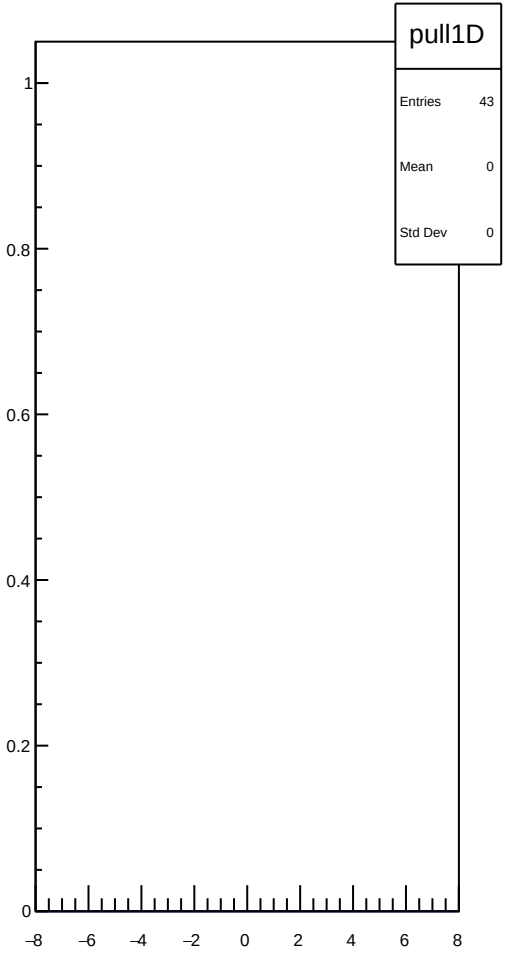

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.42 / 42
p0 −0.005716 ± 0.01329
pull
Entries 43
Mean 180.7
Std Dev 0
pull1D
Entries 43
Mean −0.01641
Std Dev 1.093

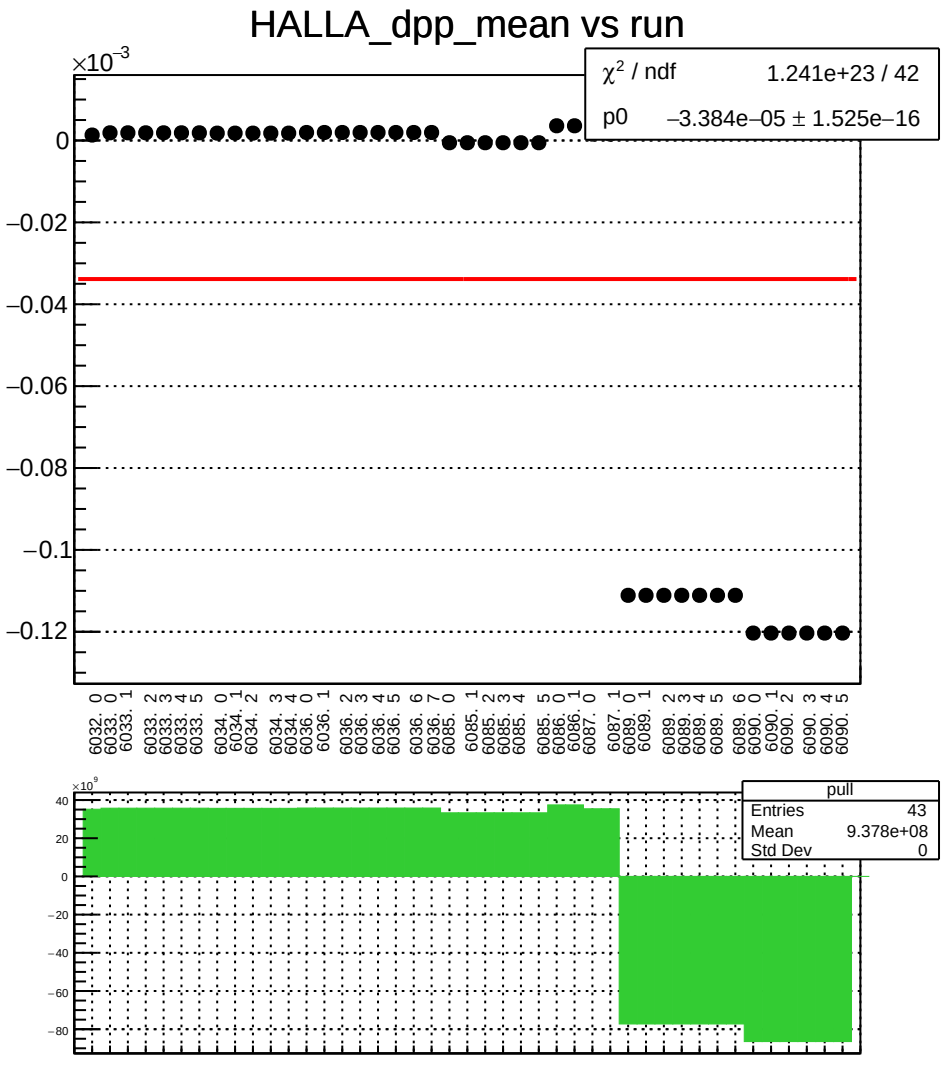

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.27 / 42
p0 0.06847 ± 0.0145
0.6
0.4
0.2
0
−0.2
−0.4
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean −106.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0078
Std Dev 1.296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

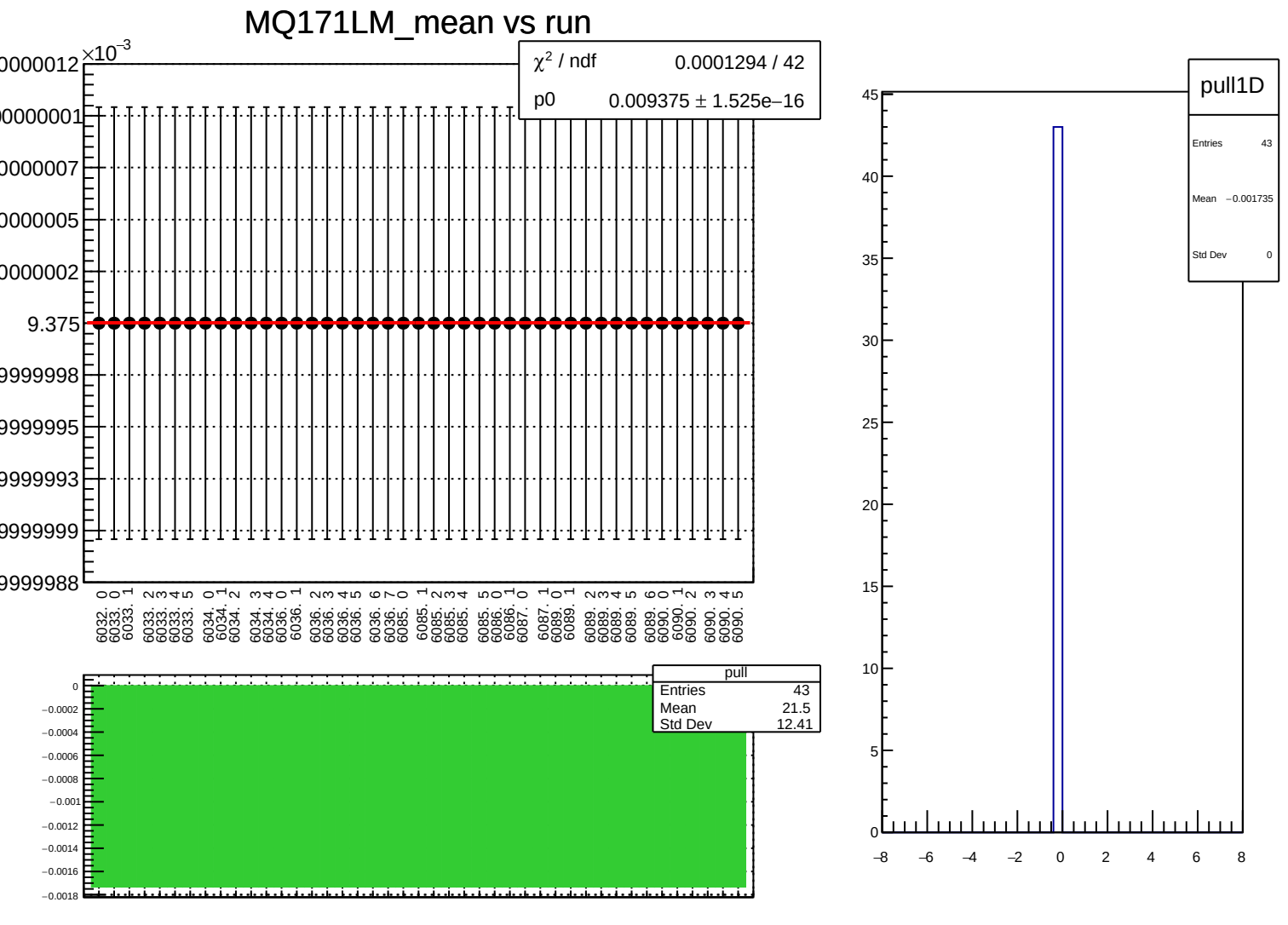

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.52 / 42
p0 −0.009741 ± 0.01439
pull
Entries 43
Mean 175.9
Std Dev 0
pull1D
Entries 43
Mean 0.01915
Std Dev 1.094

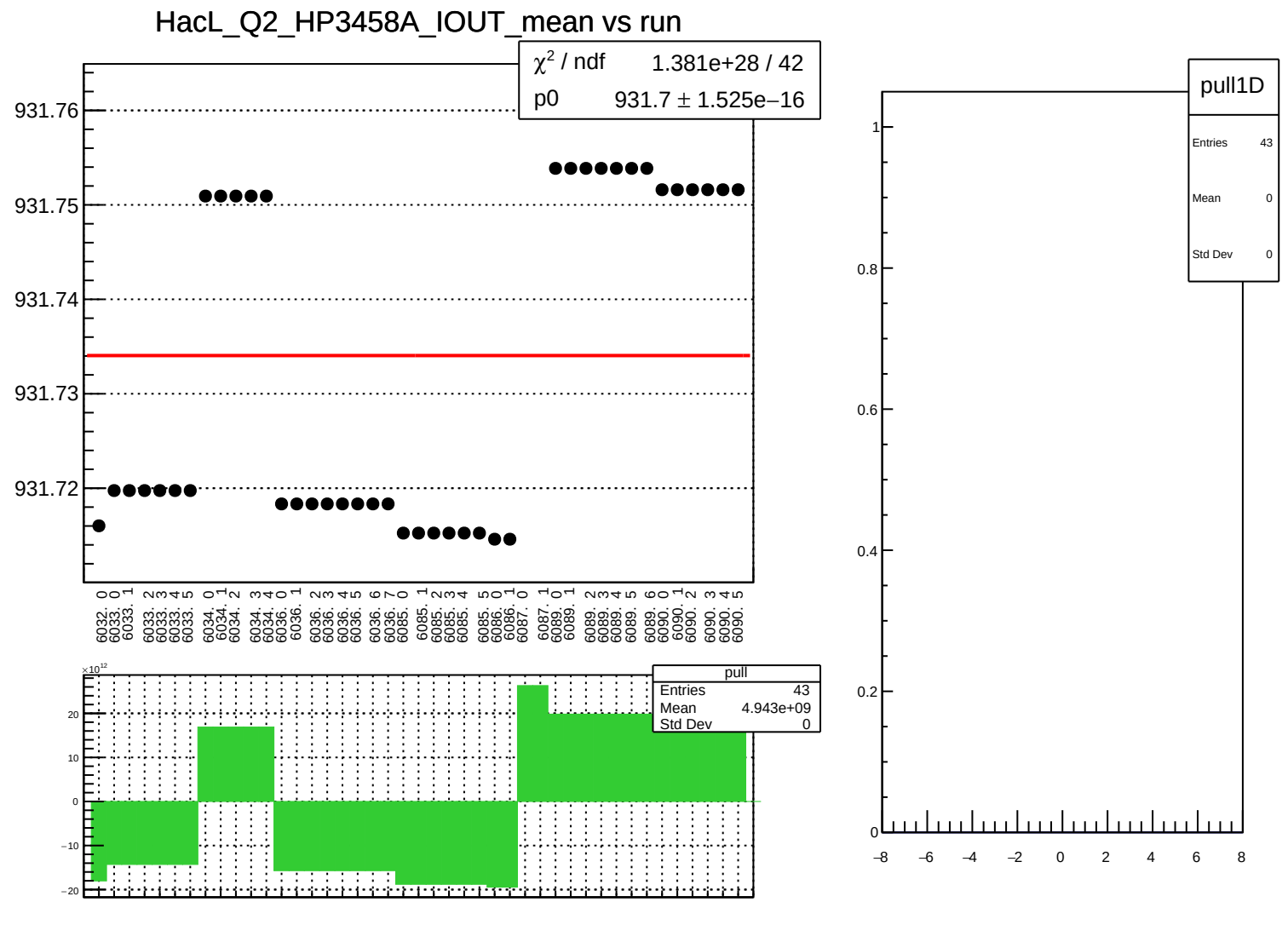

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 68.39 / 42
p0 −0.002875 ± 0.001203
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 196.8
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01799
Std Dev 1.261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

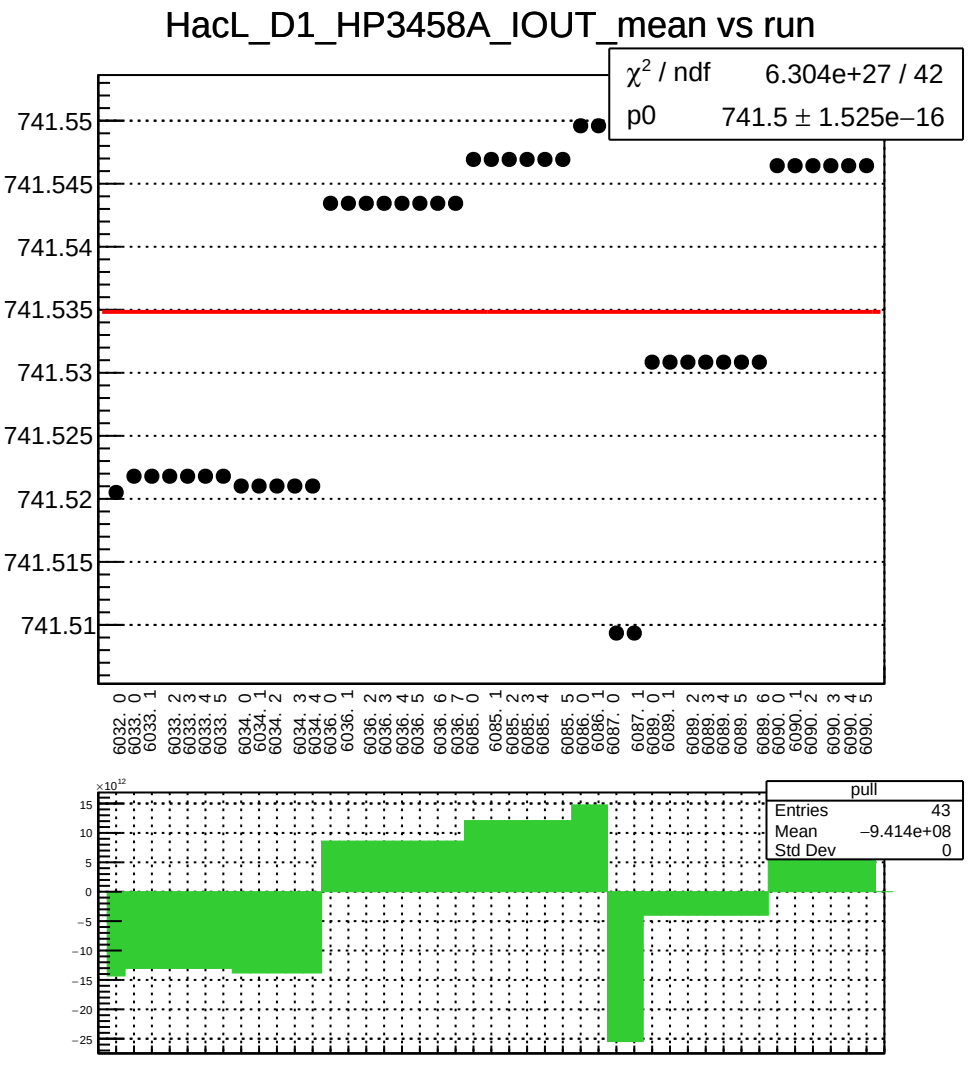

HALLA_p_mean vs run
χ² / ndf 1.464e+33 / 42
p0 2174 ± 1.525e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 43
Mean −1.282e+09
Std Dev 0

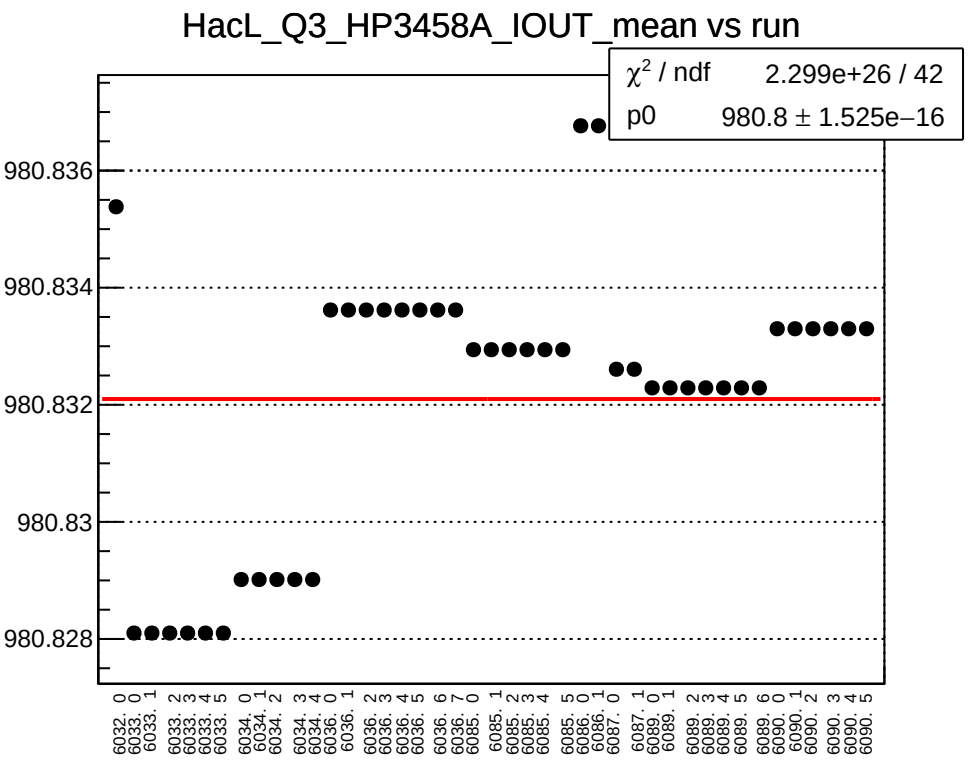

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

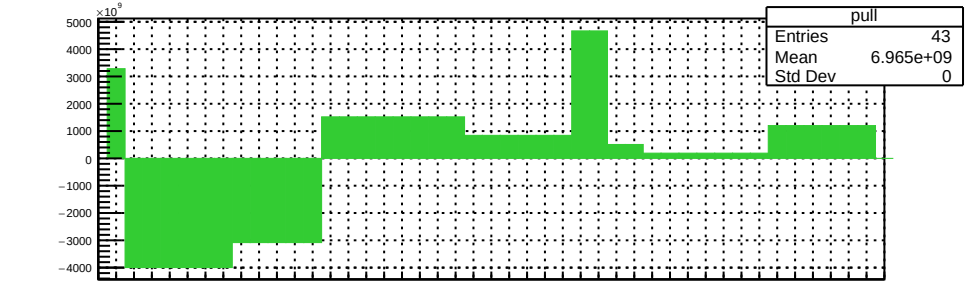

HALLA_dpp_mean vs run
χ² / ndf 1.241e+23 / 42
p0 −3.384e−05 ± 1.525e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁹
40
20
0
−20
−40
−60
−80
pull
Entries 43
Mean 9.378e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

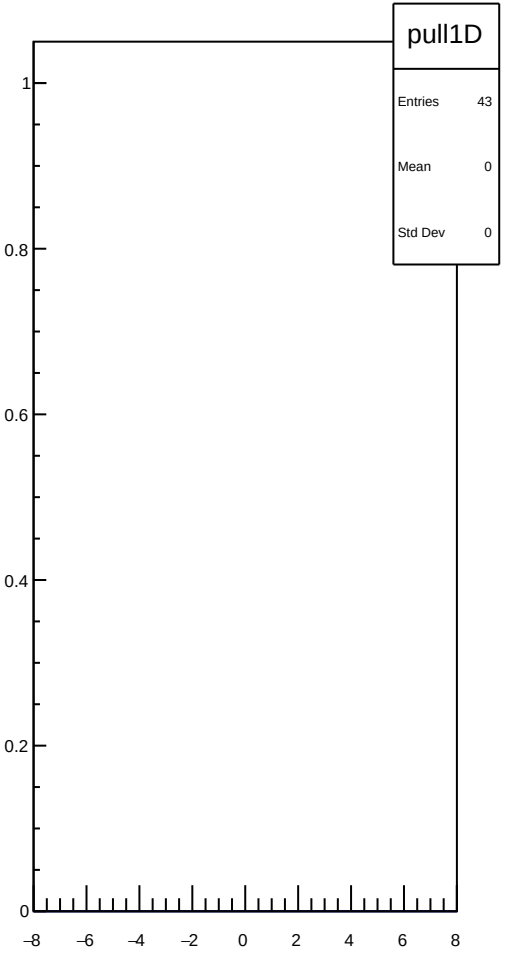

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
9.375
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −0.001735
Std Dev 0

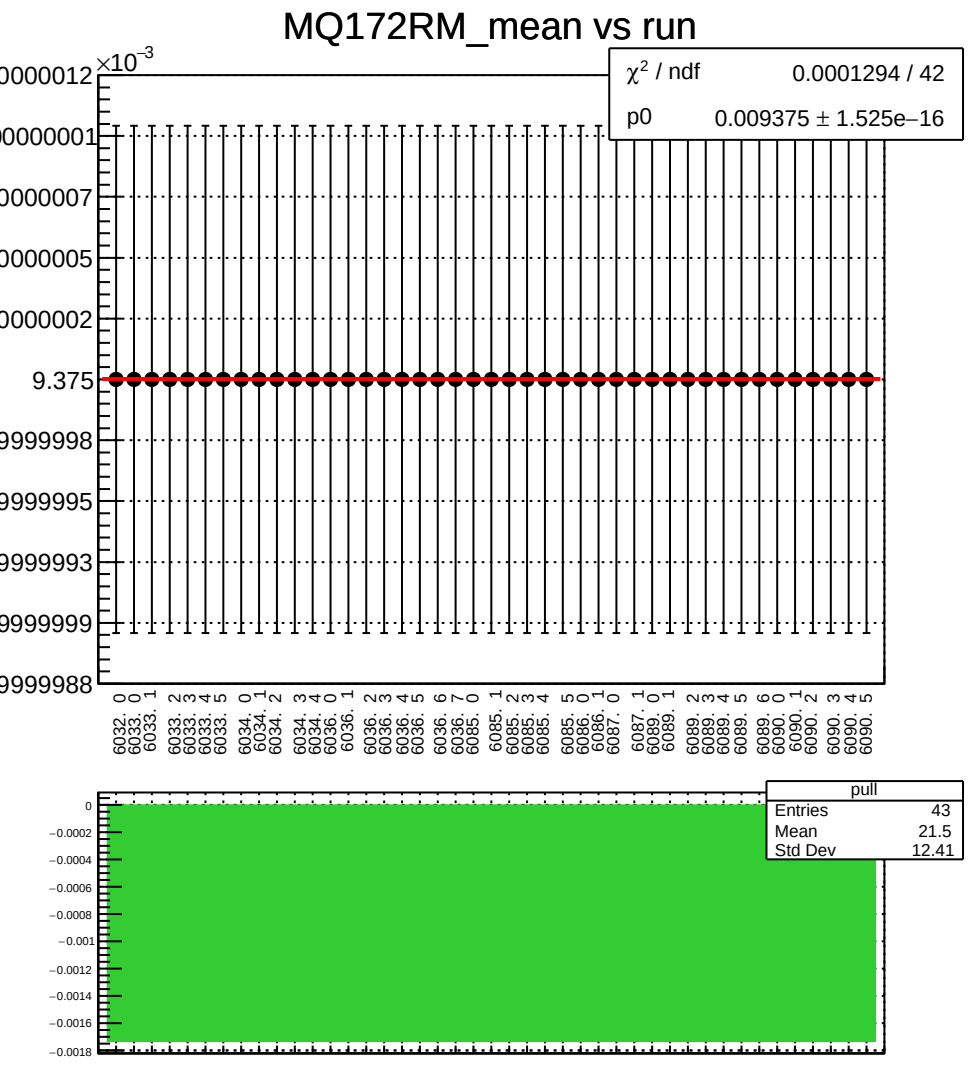

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.381e+28 / 42
p0 931.7 ± 1.525e−16
931.76
931.75
931.74
931.73
931.72
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
20
10
0
−10
−20
pull
Entries 43
Mean 4.943e+09
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

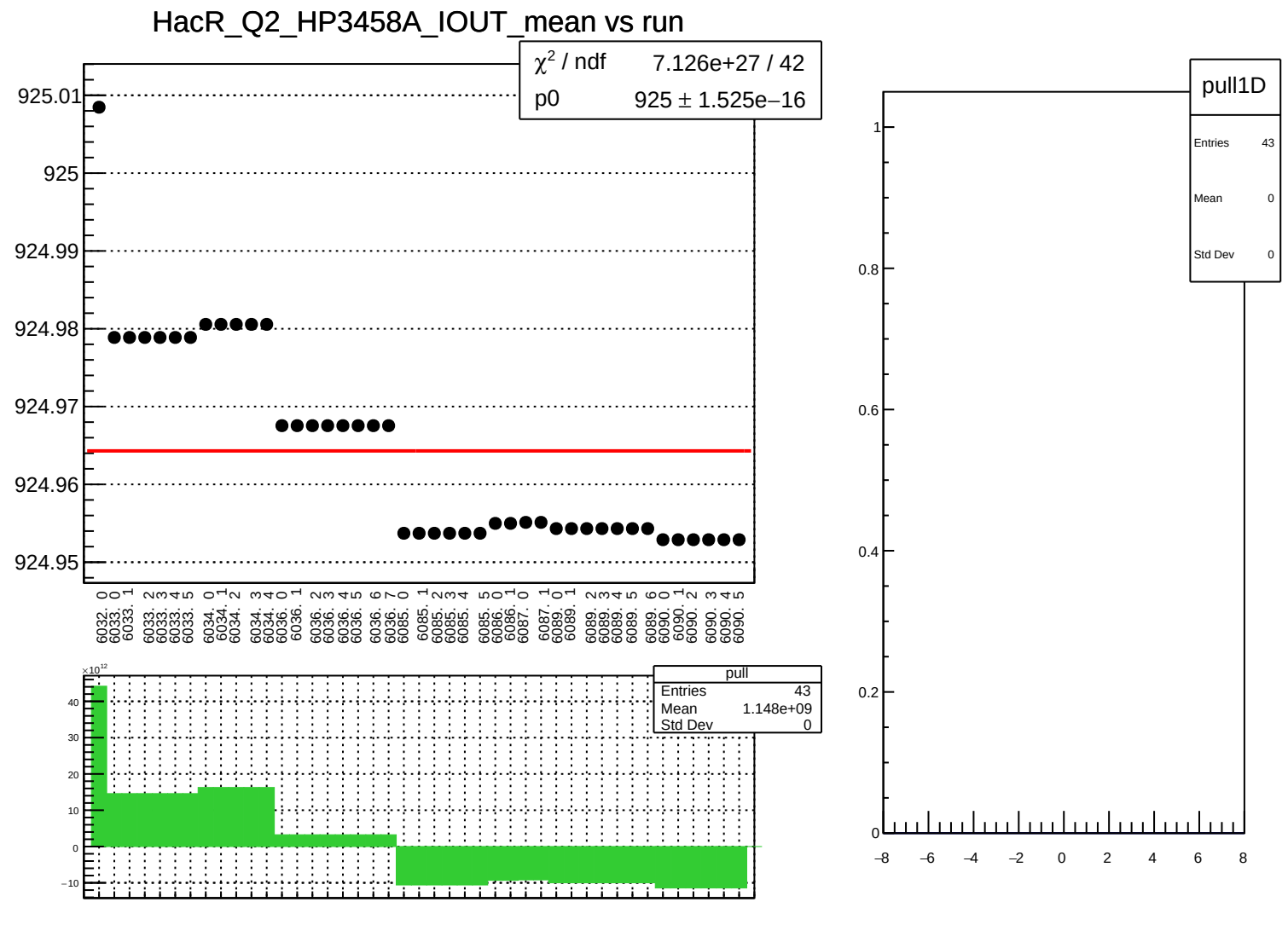

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.304e+27 / 42
p0 741.5 ± 1.525e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
15
10
5
0
−5
−10
−15
−20
−25
pull
Entries 43
Mean −9.414e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

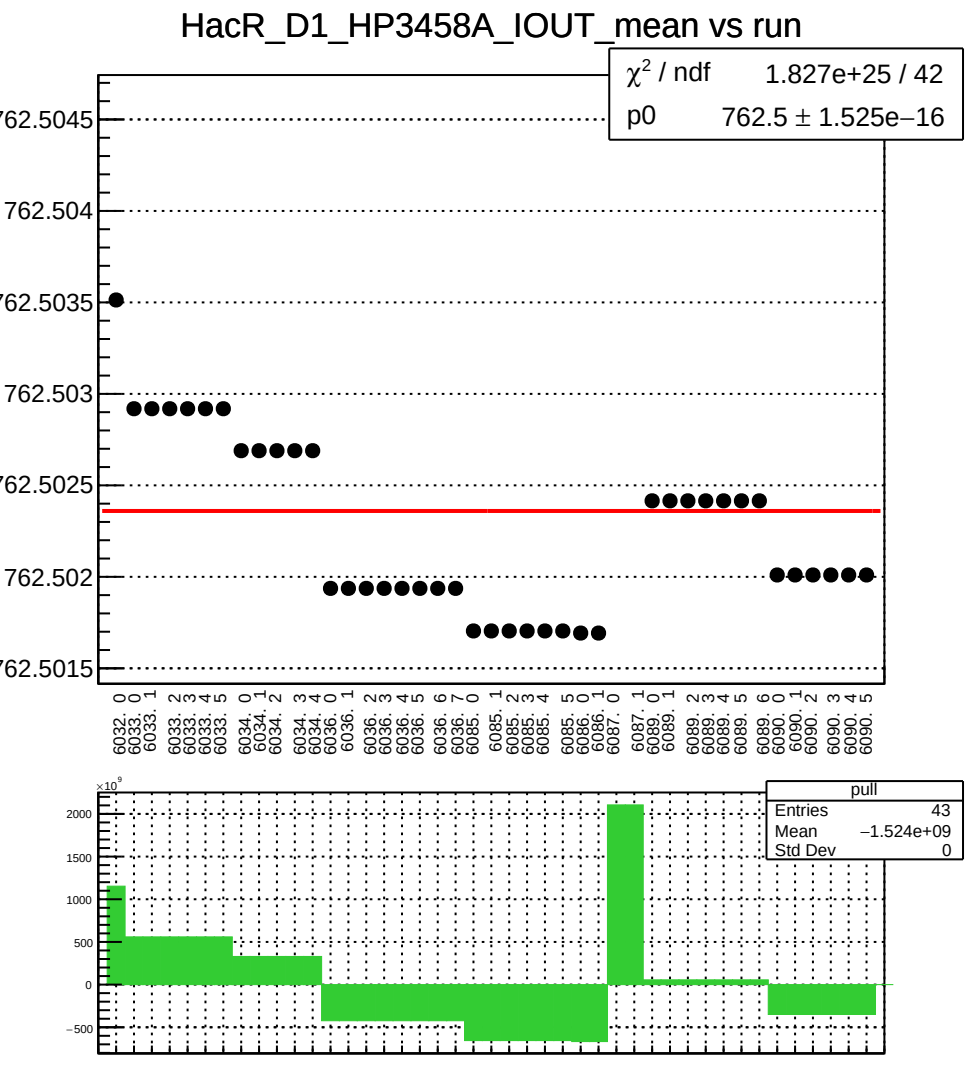

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.299e+26 / 42
p0 980.8 ± 1.525e−16
980.836
980.834
980.832
980.83
980.828
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5

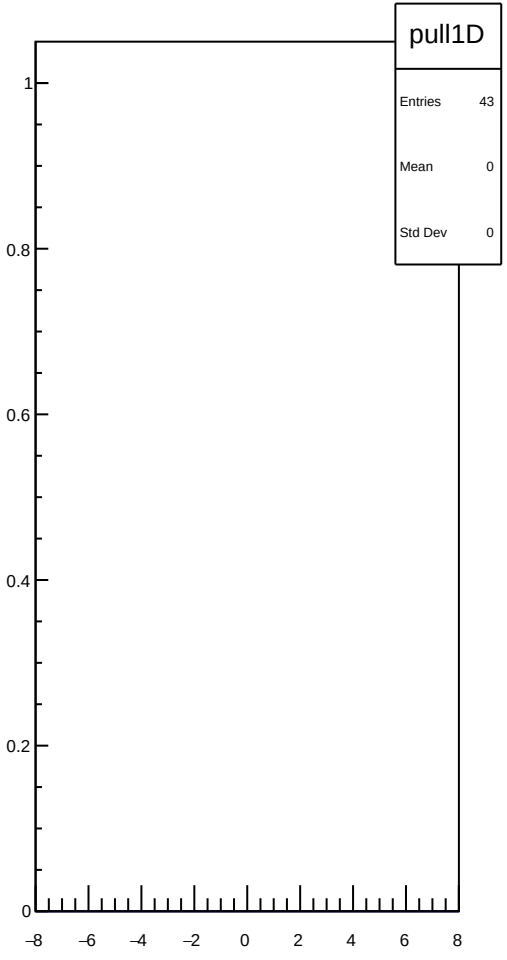

×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 43
Mean 6.965e+09
Std Dev 0

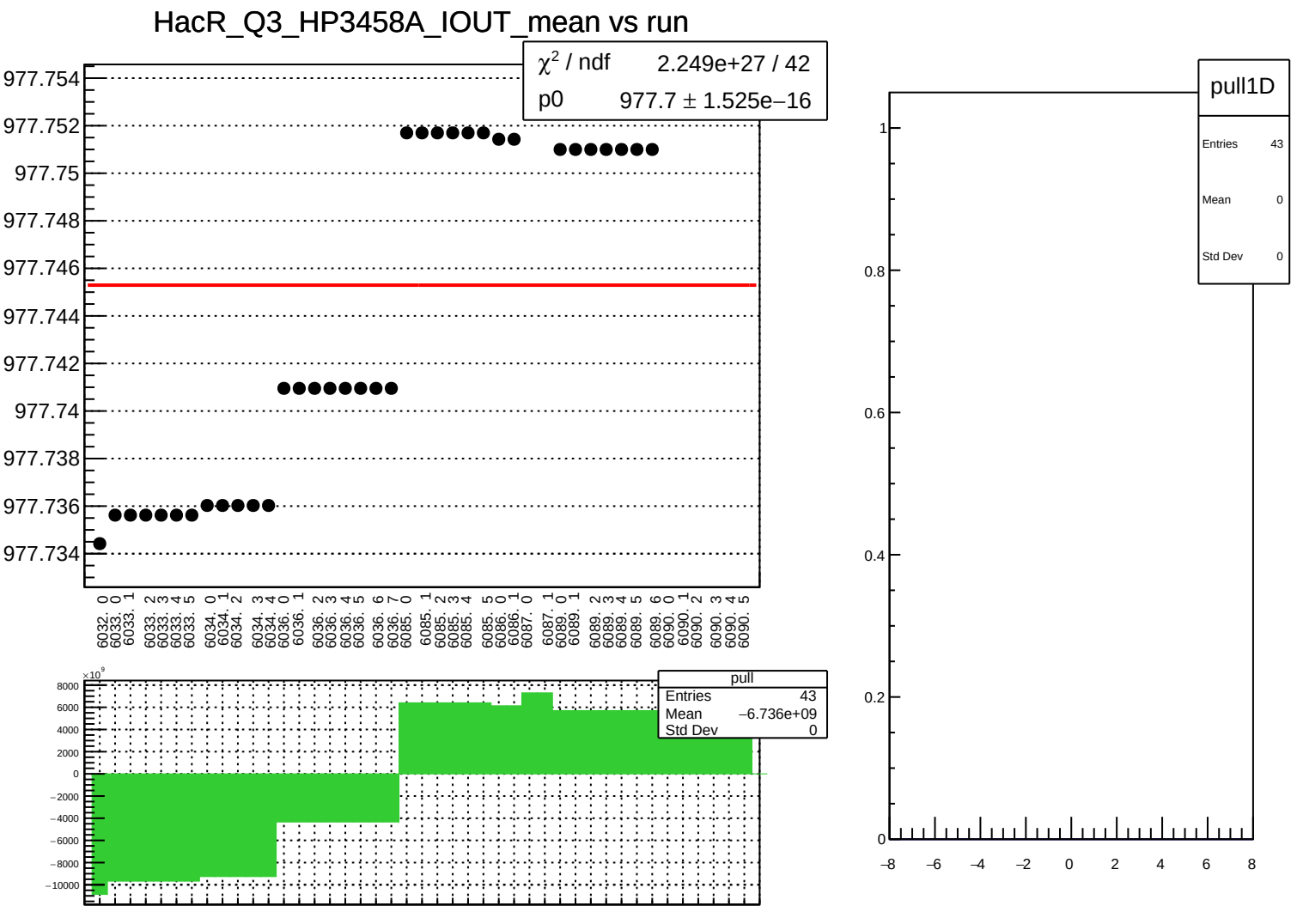

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

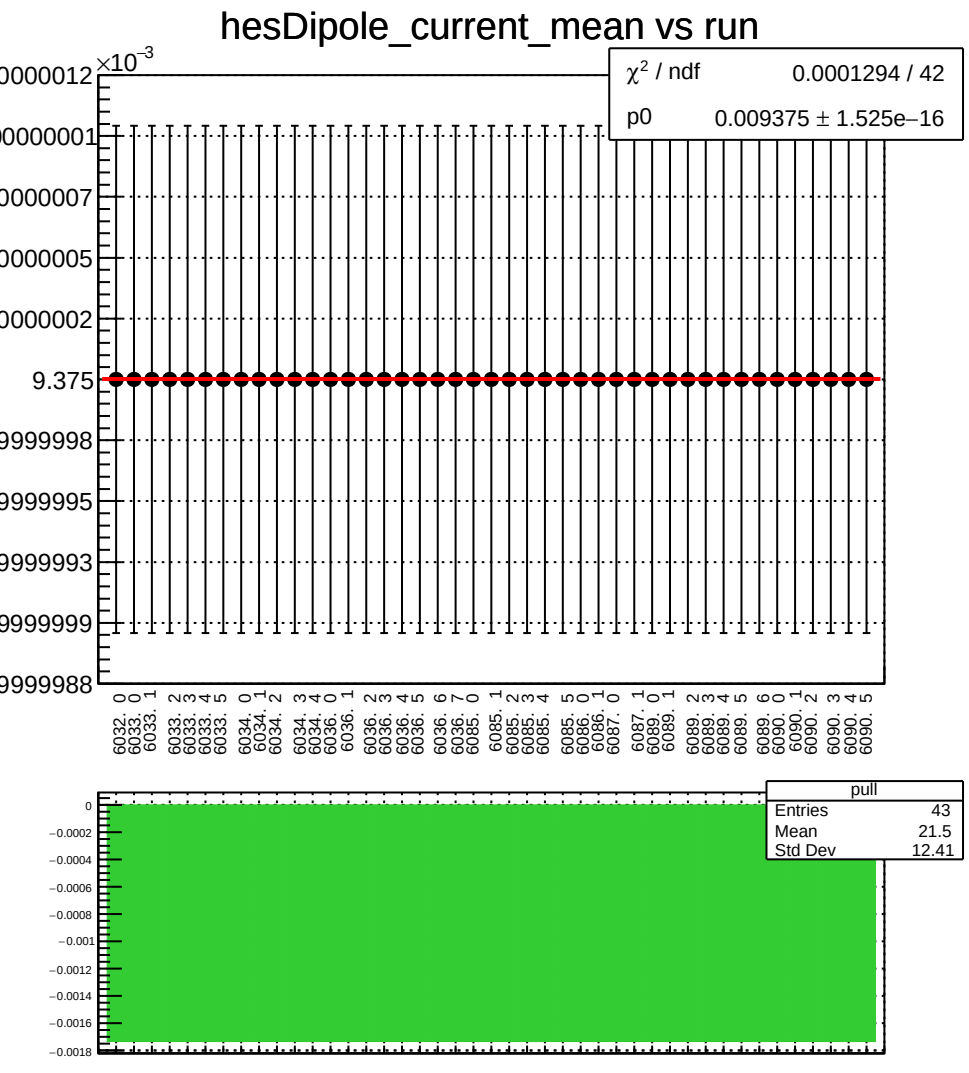

MQ172RM_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
9.375
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −0.001735
Std Dev 0

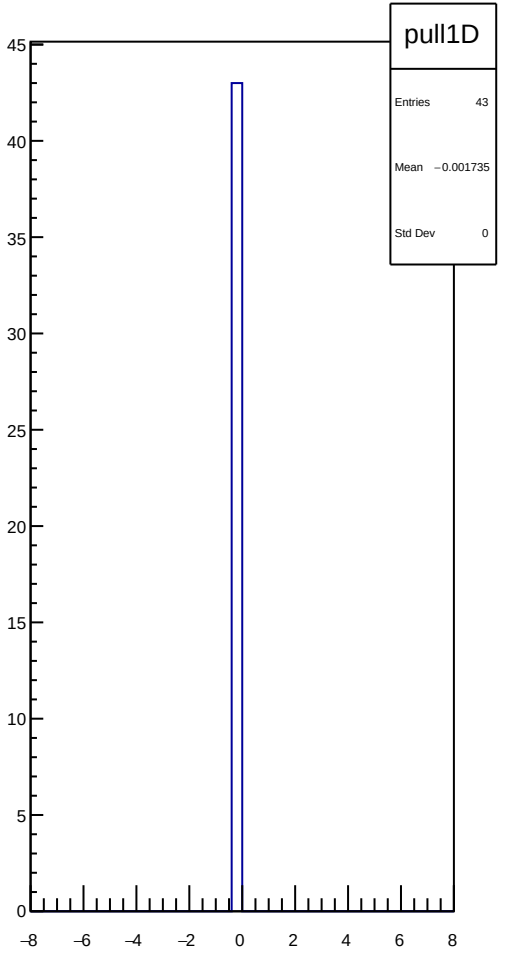

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 7.126e+27 / 42
p0 925 ± 1.525e−16
925.01
925
924.99
924.98
924.97
924.96
924.95
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10¹²
40
30
20
10
0
−10
pull
Entries 43
Mean 1.148e+09
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

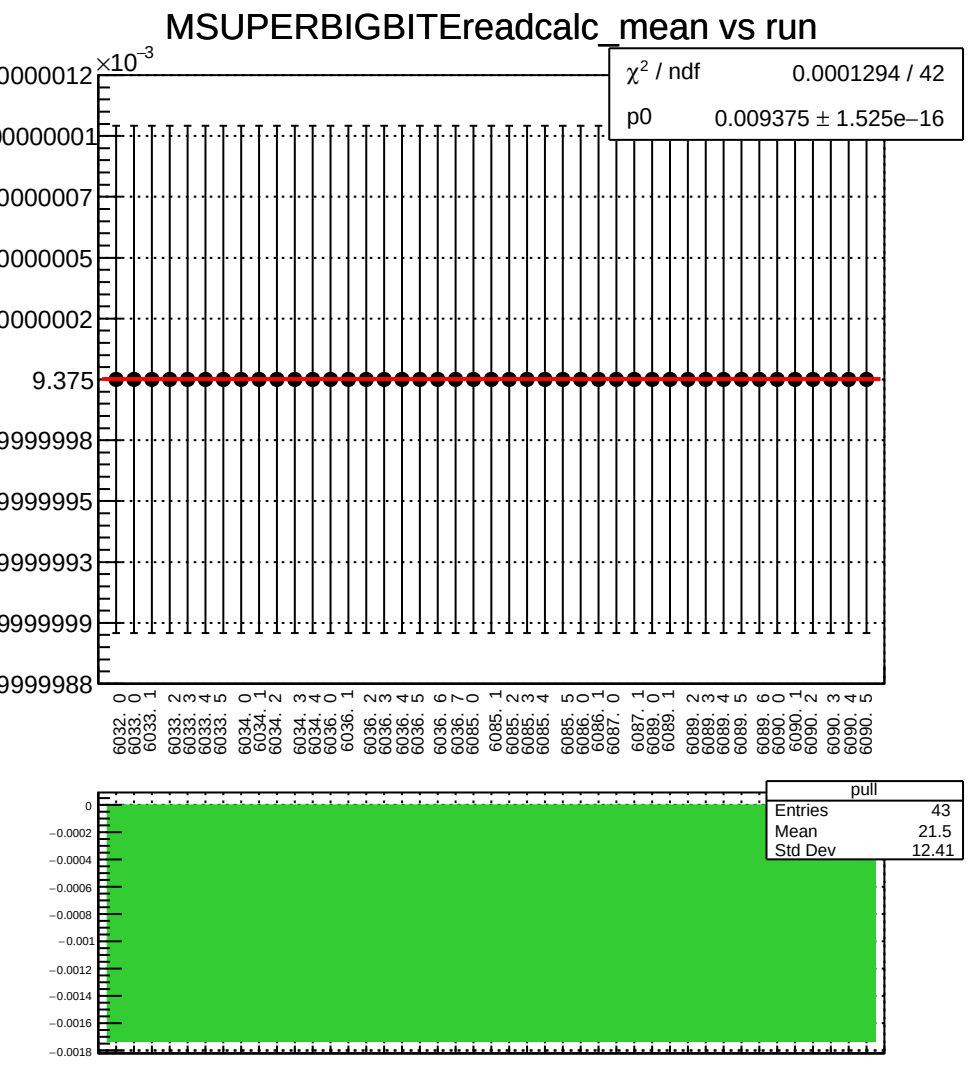

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.827e+25 / 42
p0 762.5 ± 1.525e−16
762.5045
762.504
762.5035
762.503
762.5025
762.502
762.5015
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁹
2000
1500
1000
500
0
−500
pull
Entries 43
Mean −1.524e+09
Std Dev 0

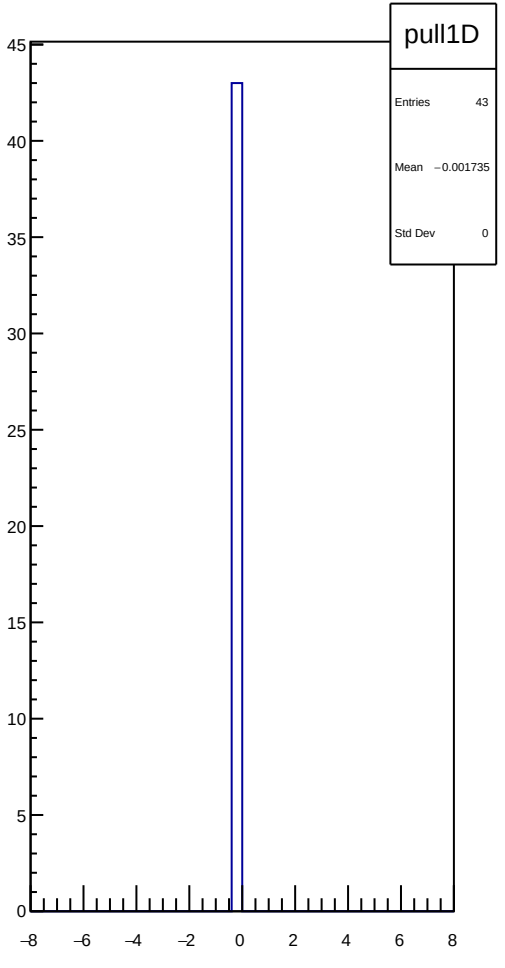

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

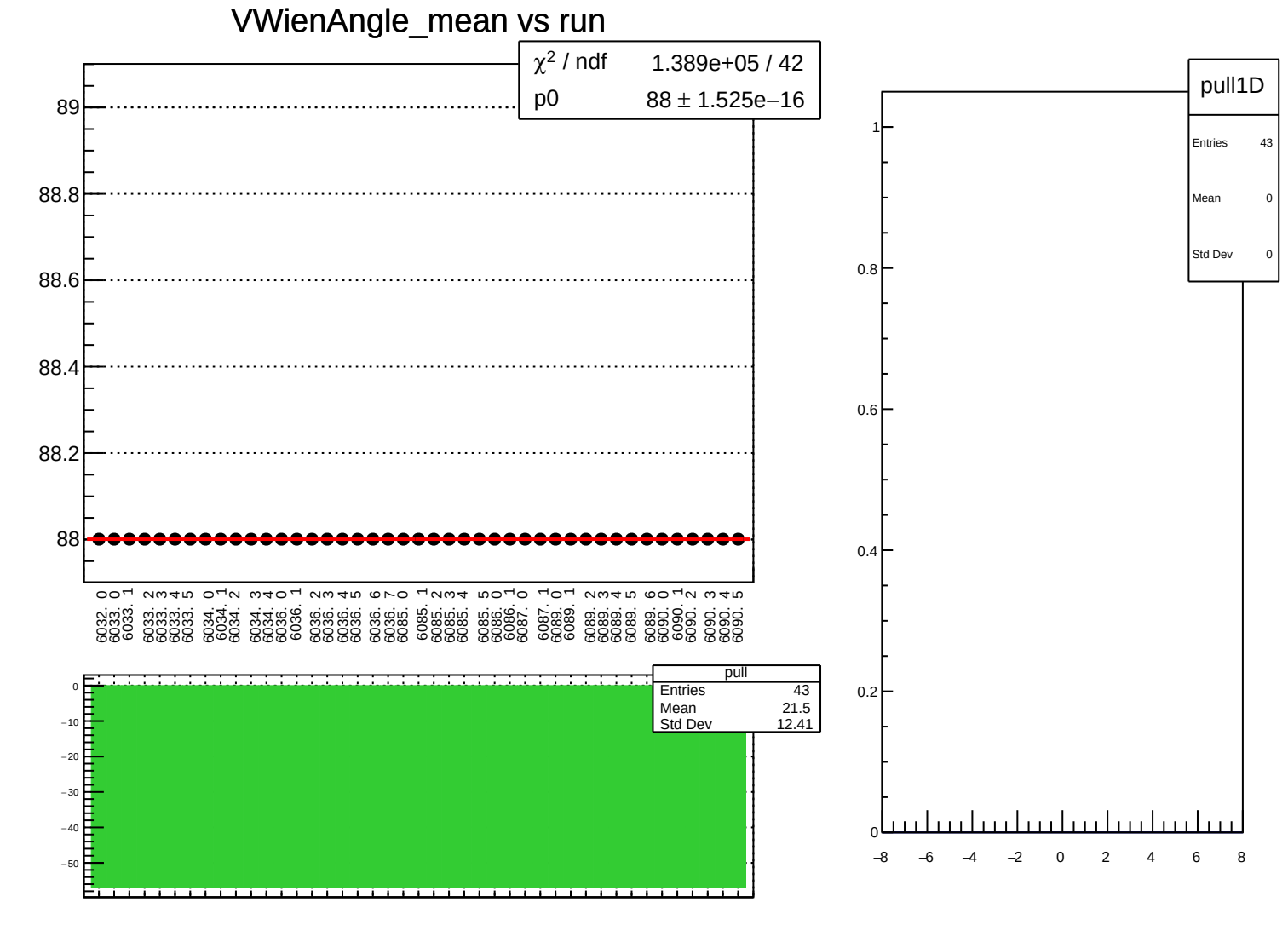

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.249e+27 / 42
p0 977.7 ± 1.525e−16
977.754
977.752
977.75
977.748
977.746
977.744
977.742
977.74
977.738
977.736
977.734
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
×10⁹
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 43
Mean −6.736e+09
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

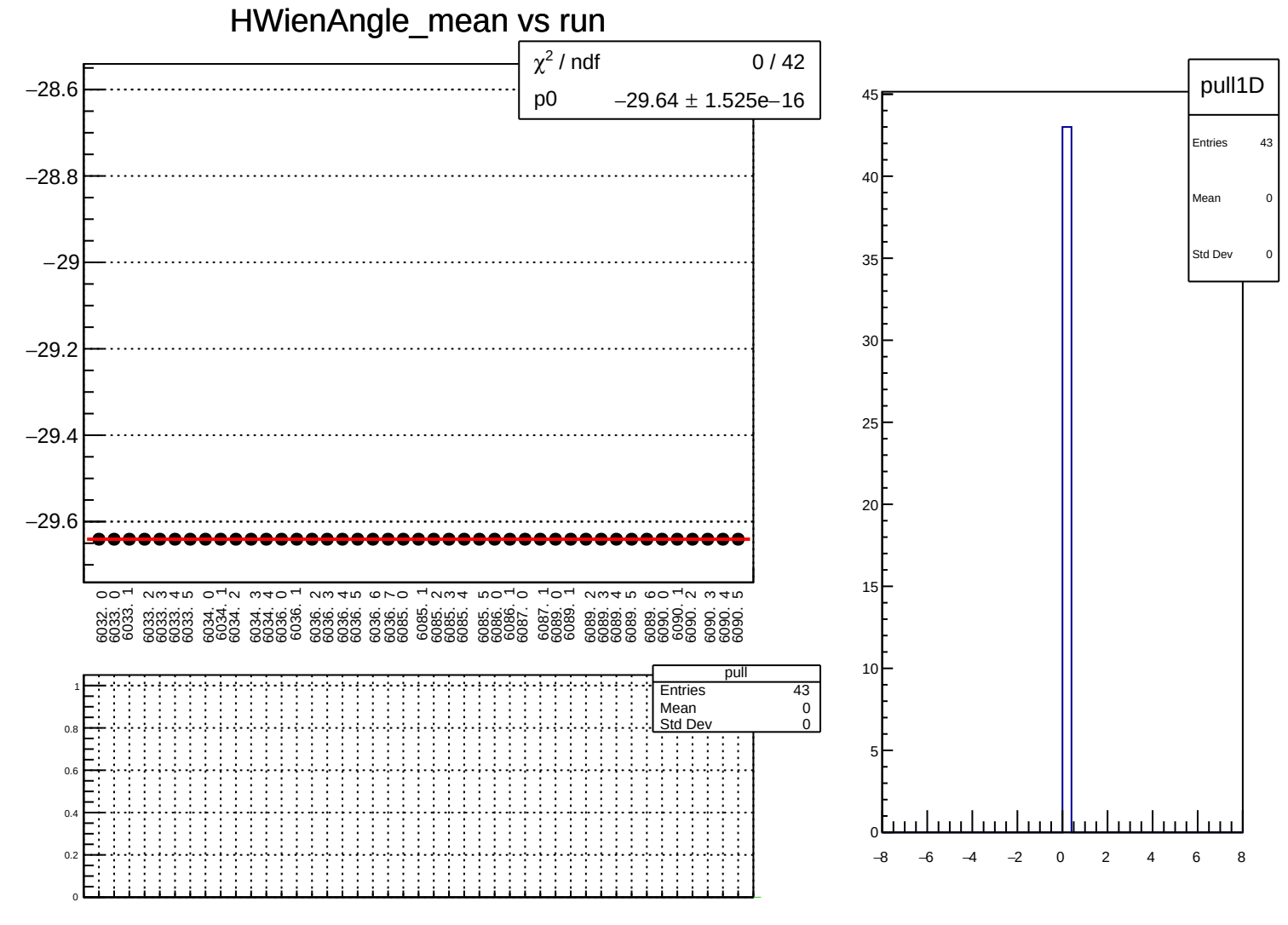

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
pull
Entries 43
Mean 21.5
Std Dev 12.41

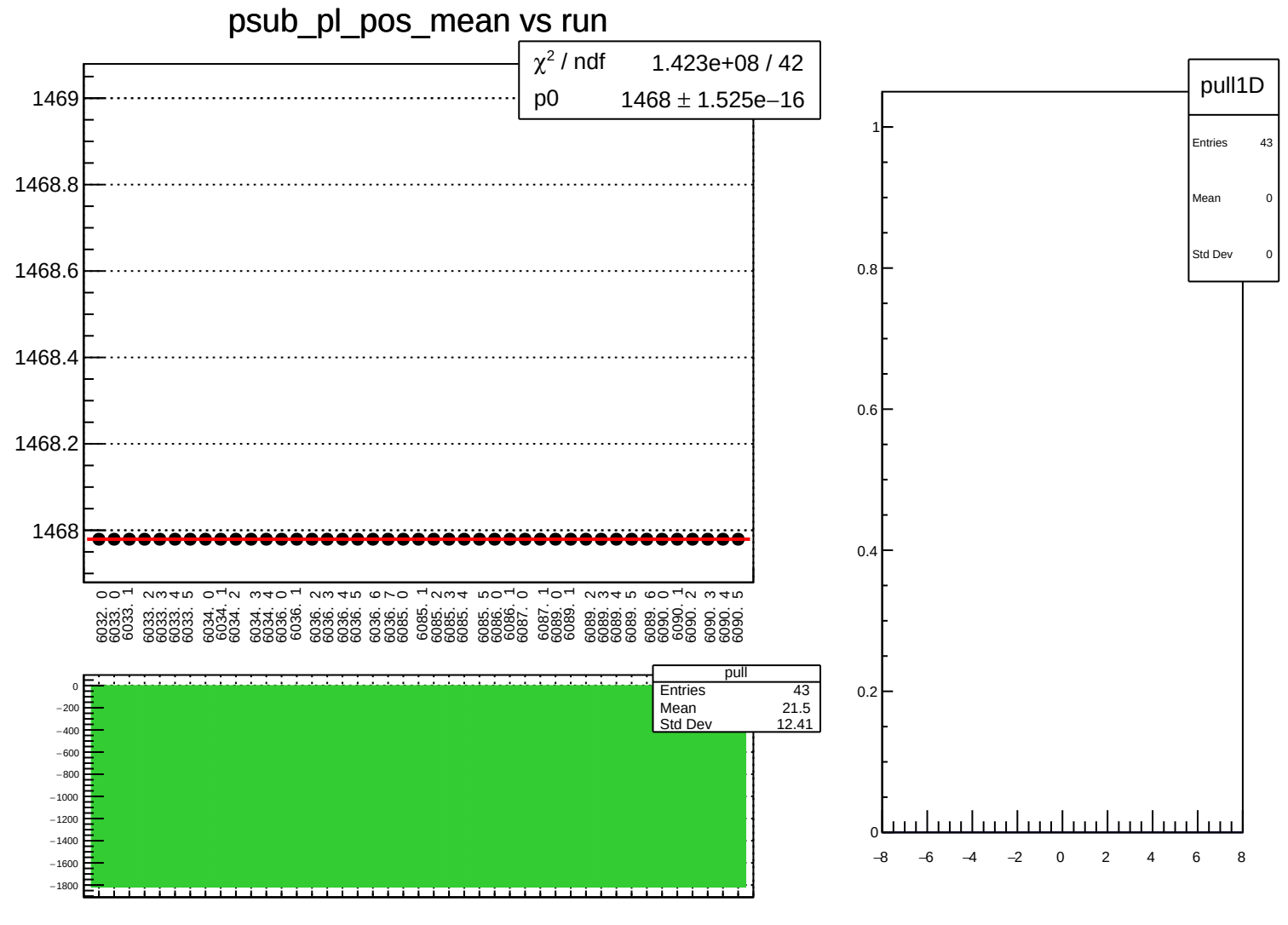

pull1D
Entries 43
Mean −0.001735
Std Dev 0

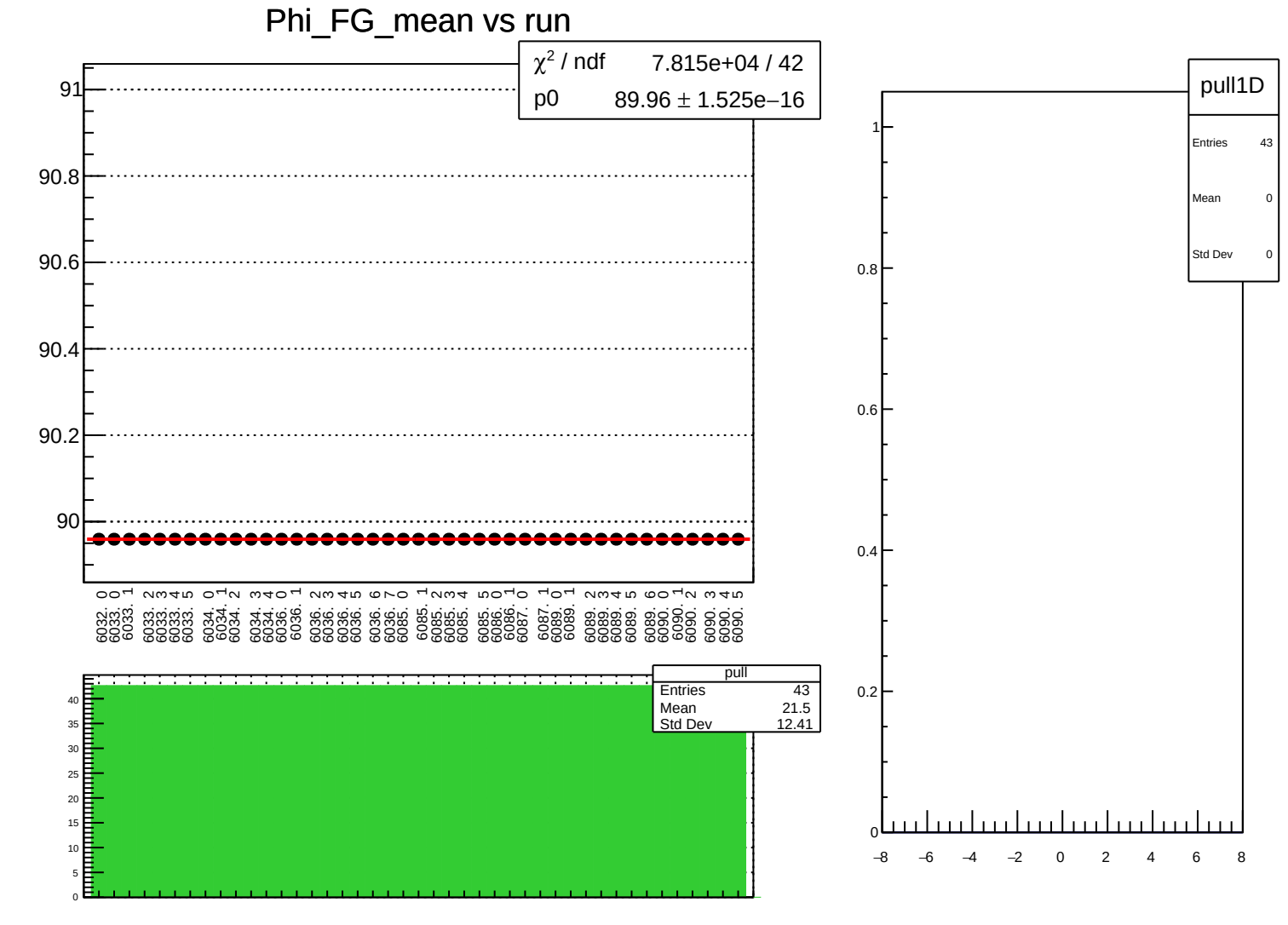

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41

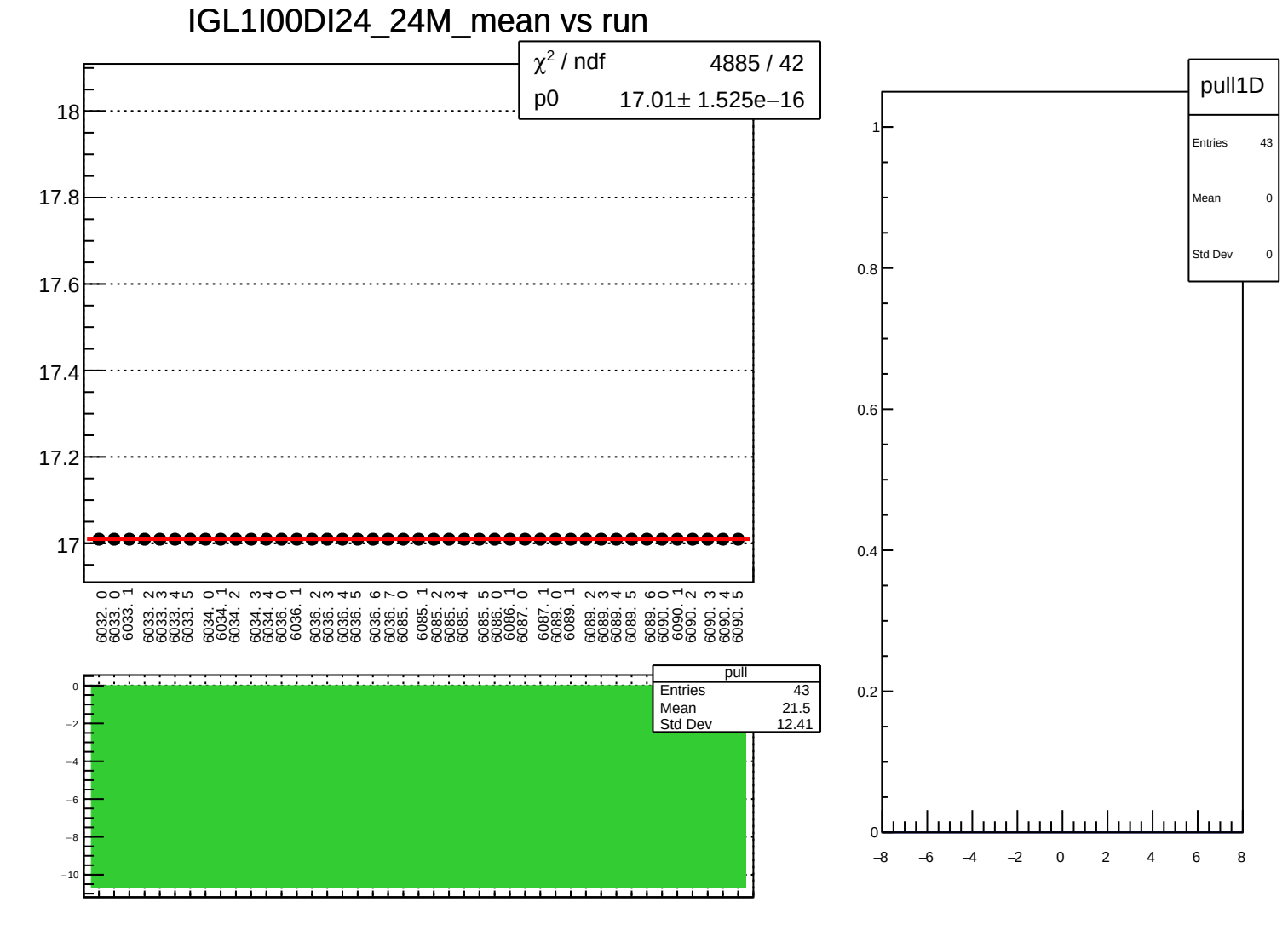

pull1D
Entries 43
Mean −0.001735
Std Dev 0

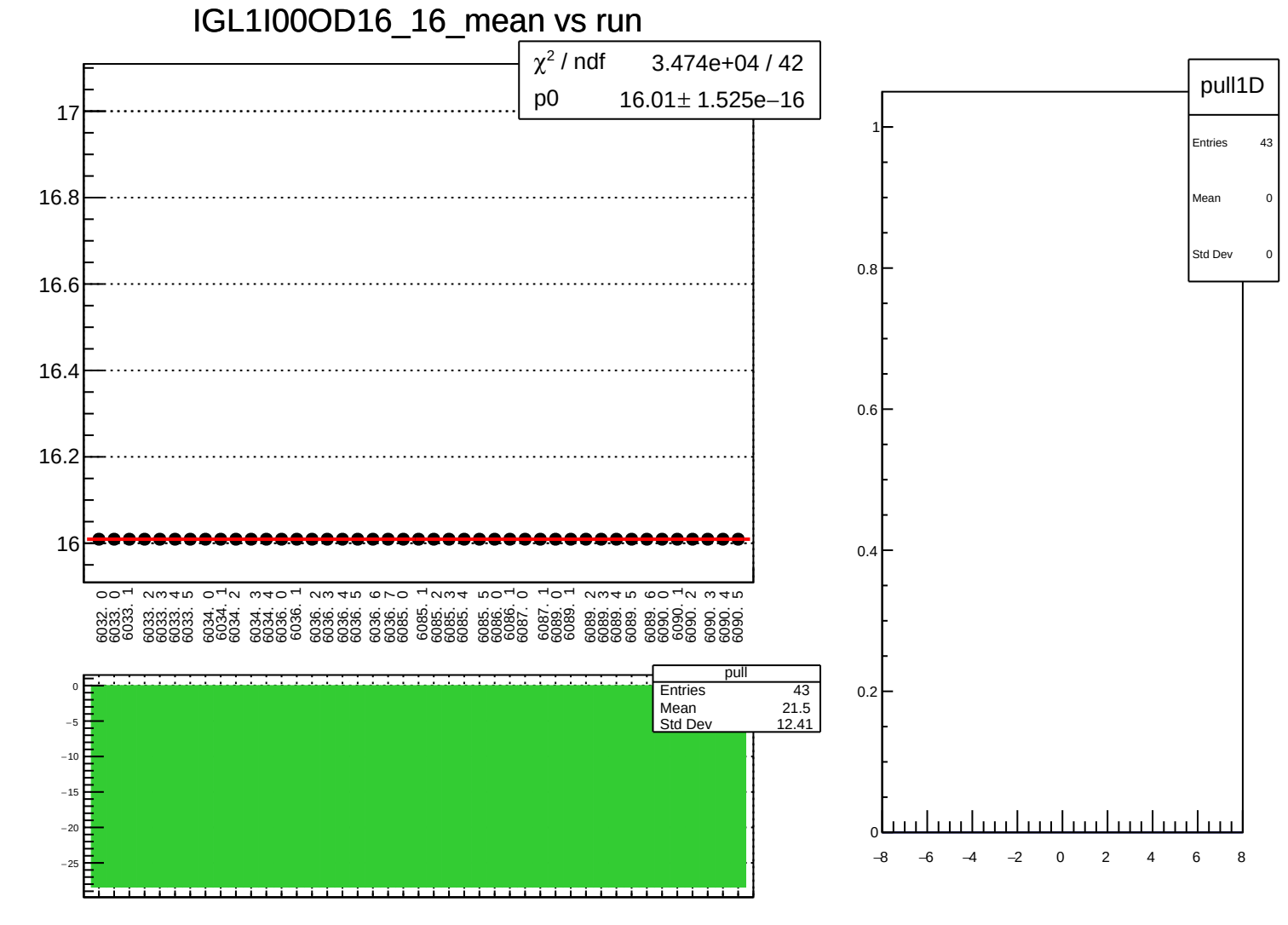

VWienAngle_mean vs run
χ² / ndf 1.389e+05 / 42
p0 88 ± 1.525e−16
89
88.8
88.6
88.4
88.2
88
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−10
−20
−30
−40
−50
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

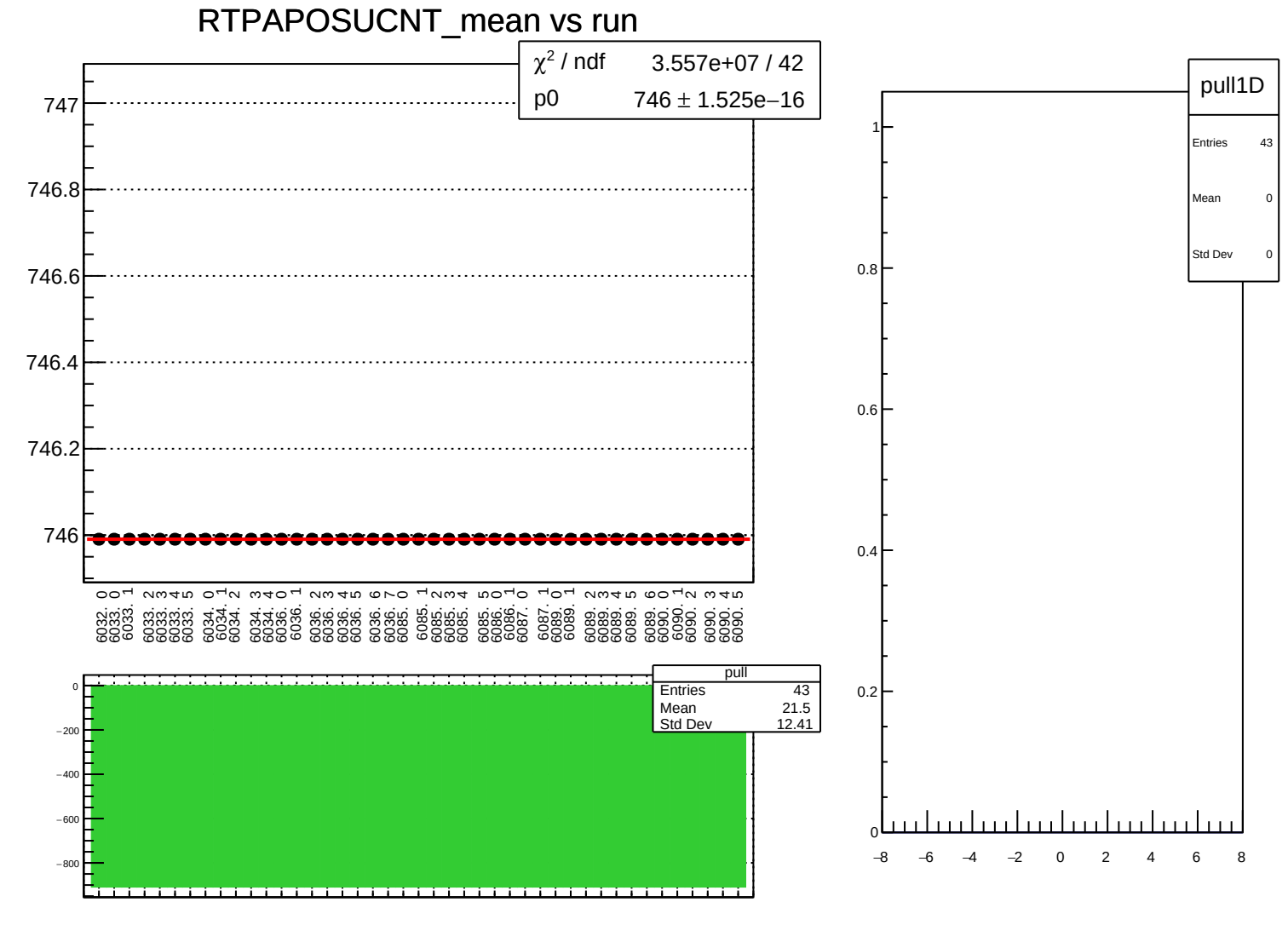

HWienAngle_mean vs run
χ² / ndf 0 / 42
p0 −29.64 ± 1.525e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

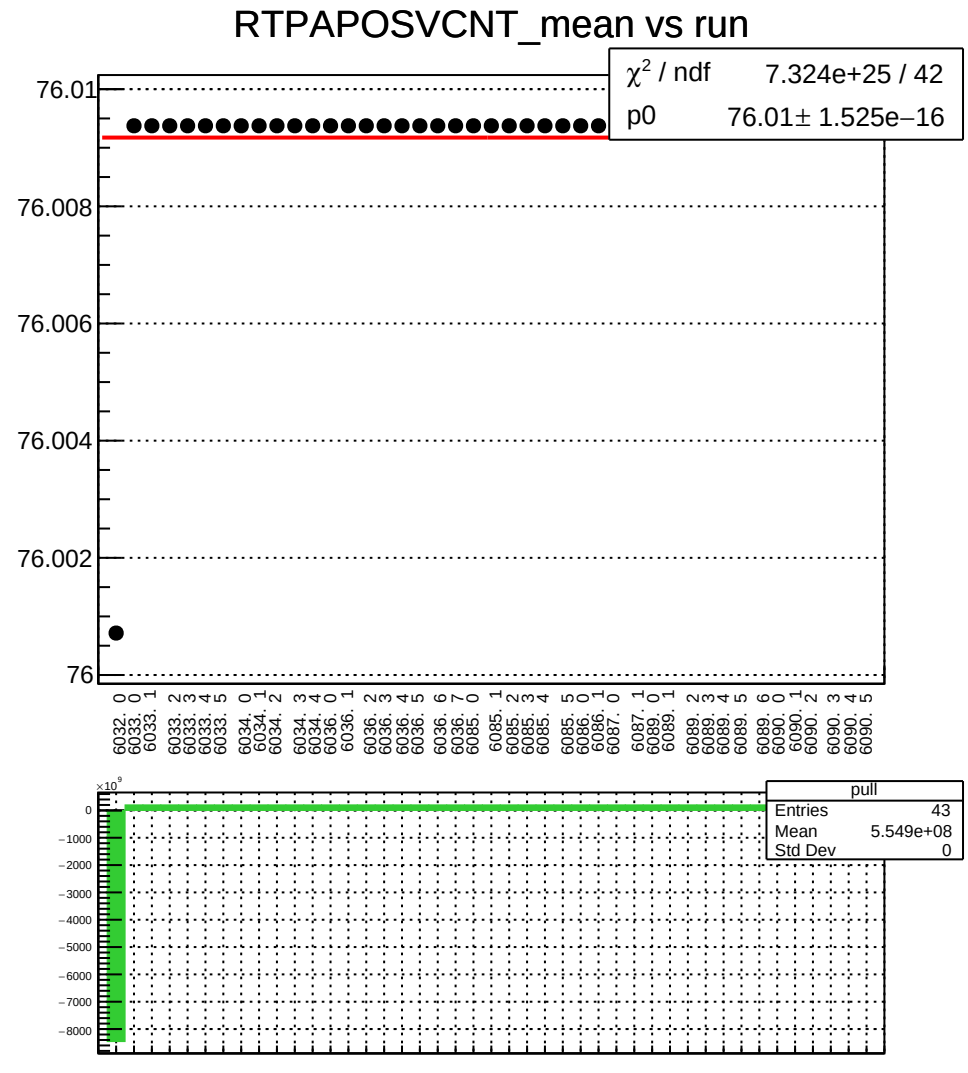

psub_pl_pos_mean vs run
χ² / ndf 1.423e+08 / 42
p0 1468 ± 1.525e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

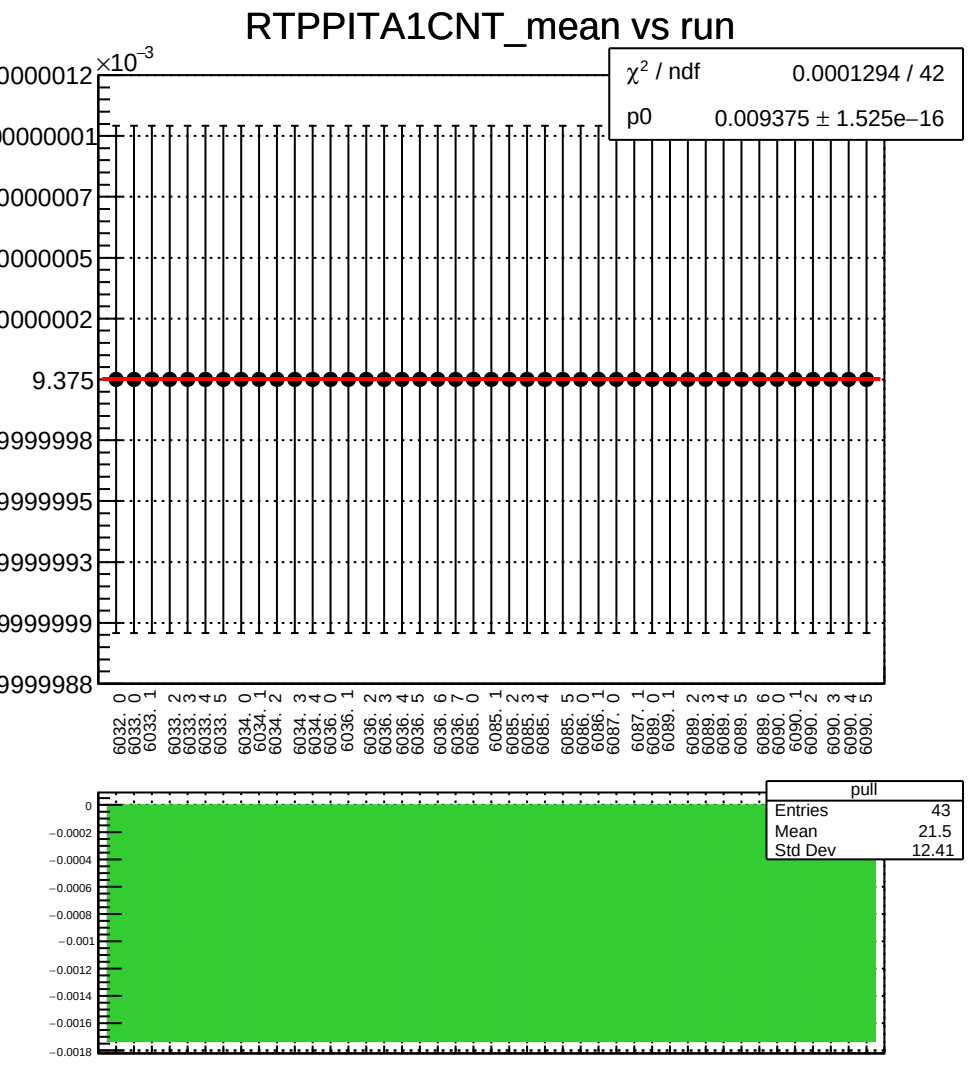

Phi_FG_mean vs run
χ² / ndf 7.815e+04 / 42
p0 89.96 ± 1.525e−16
91
90.8
90.6
90.4
90.2
90
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
40
35
30
25
20
15
10
5
0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

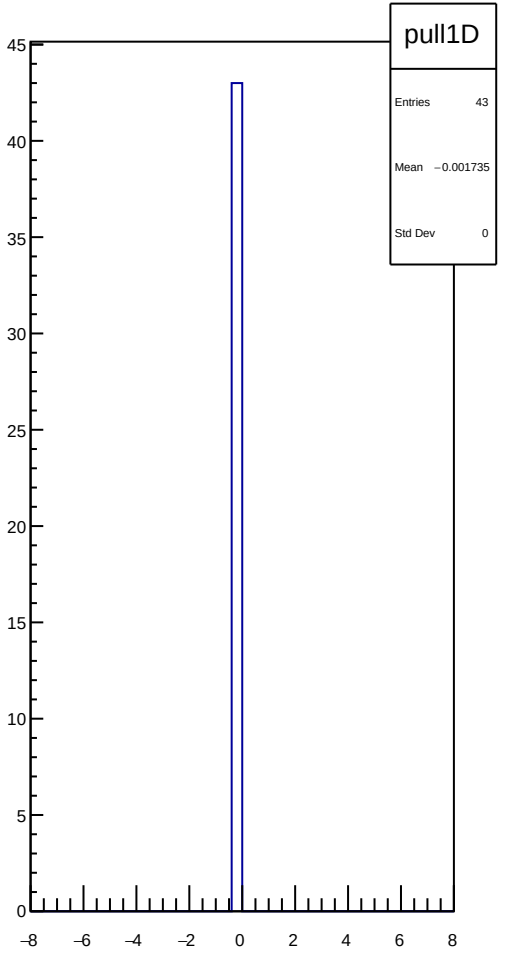

IGL1I00DI24_24M_mean vs run
χ² / ndf 4885 / 42
p0 17.01± 1.525e−16
18
17.8
17.6
17.4
17.2
17
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−2
−4
−6
−8
−10
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

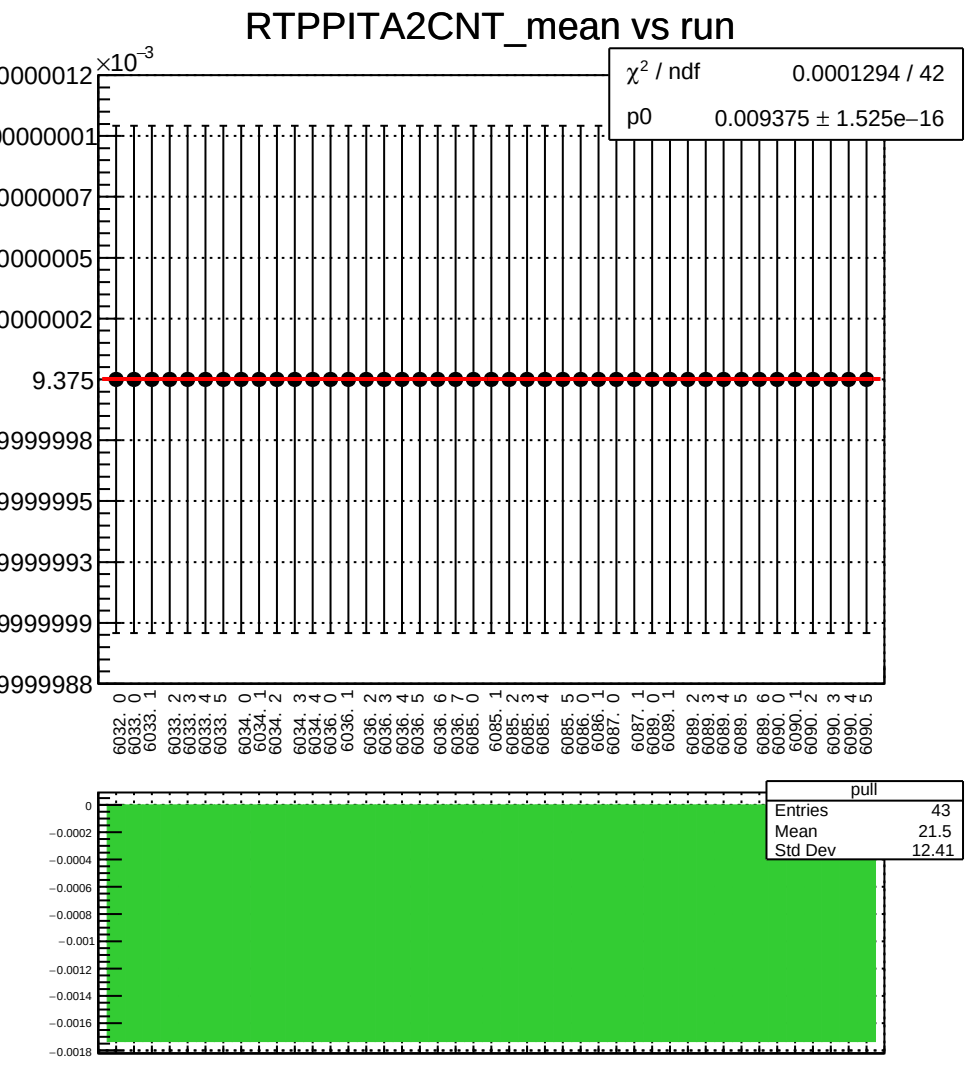

IGL1I00OD16_16_mean vs run
χ² / ndf 3.474e+04 / 42
p0 16.01± 1.525e−16
17
16.8
16.6
16.4
16.2
16
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

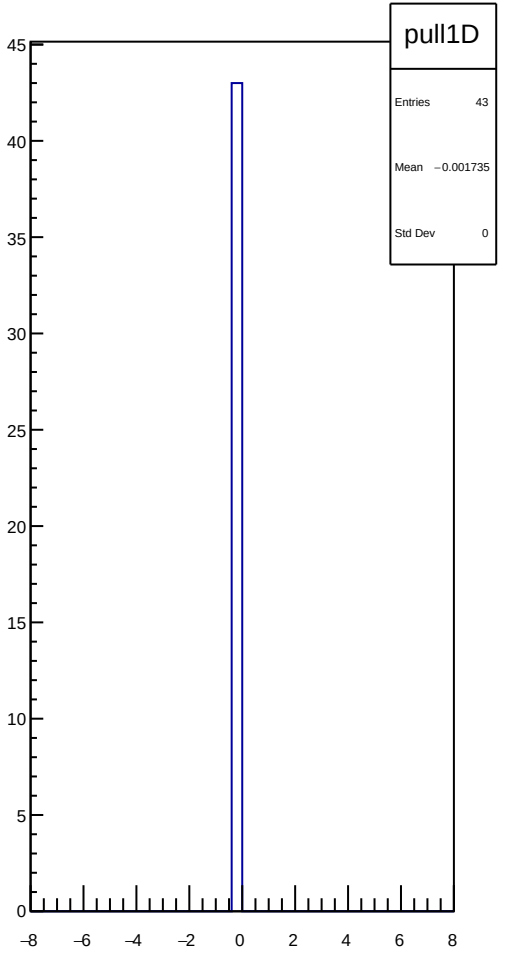

RTPAPOSUCNT_mean vs run
χ² / ndf 3.557e+07 / 42
p0 746 ± 1.525e−16
747
746.8
746.6
746.4
746.2
746
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 7.324e+25 / 42
p0 76.01± 1.525e−16
76.01
76.008
76.006
76.004
76.002
76
6032. 0
6033. 0
6033. 1
6033. 2
6033. 3
6033. 4
6033. 5
6034. 0
6034. 1
6034. 2
6034. 3
6034. 4
6036. 0
6036. 1
6036. 2
6036. 3
6036. 4
6036. 5
6036. 6
6036. 7
6085. 0
6085. 1
6085. 2
6085. 3
6085. 4
6085. 5
6086. 0
6086. 1
6087. 0
6087. 1
6089. 0
6089. 1
6089. 2
6089. 3
6089. 4
6089. 5
6089. 6
6090. 0
6090. 1
6090. 2
6090. 3
6090. 4
6090. 5
pull
Entries 43
Mean 5.549e+08
Std Dev 0
×10⁹
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
−8000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41


pull1D
Entries 43
Mean −0.001735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41


pull1D
Entries 43
Mean −0.001735
Std Dev 0