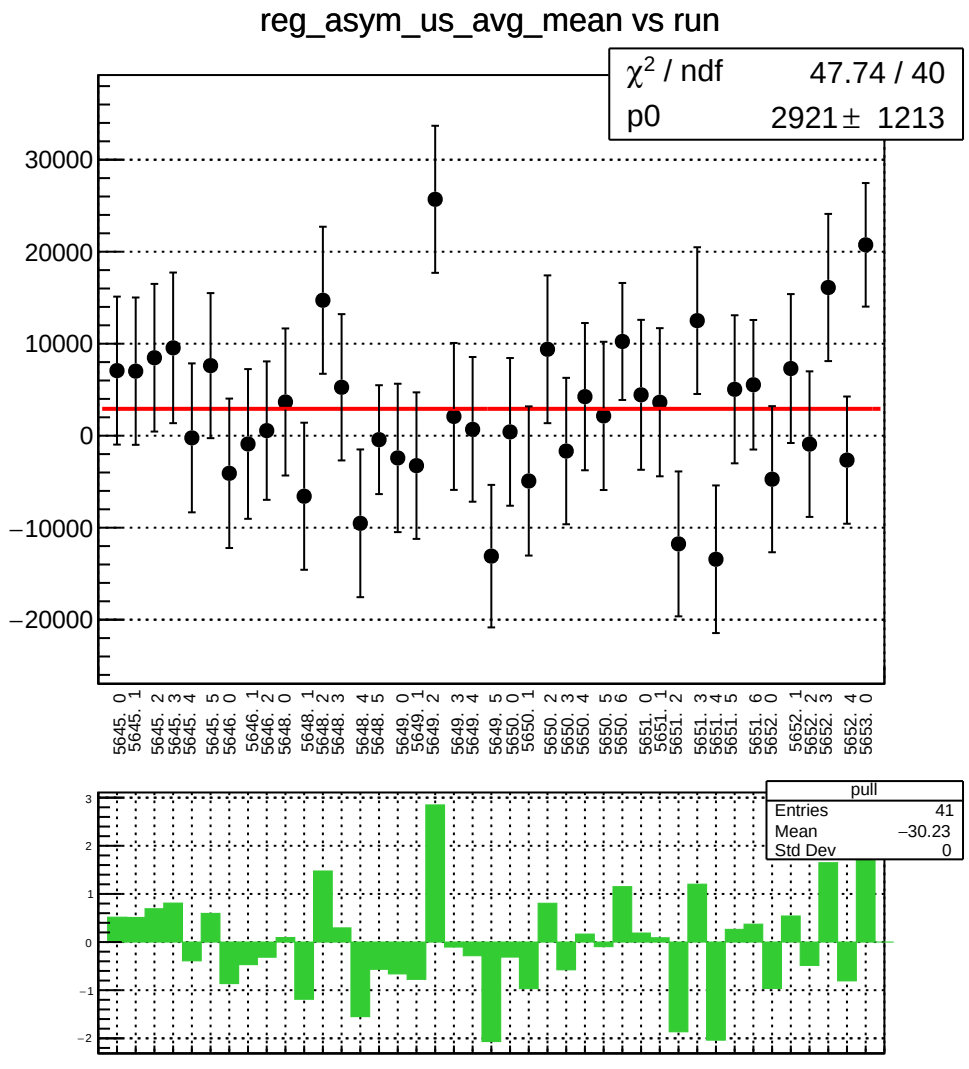
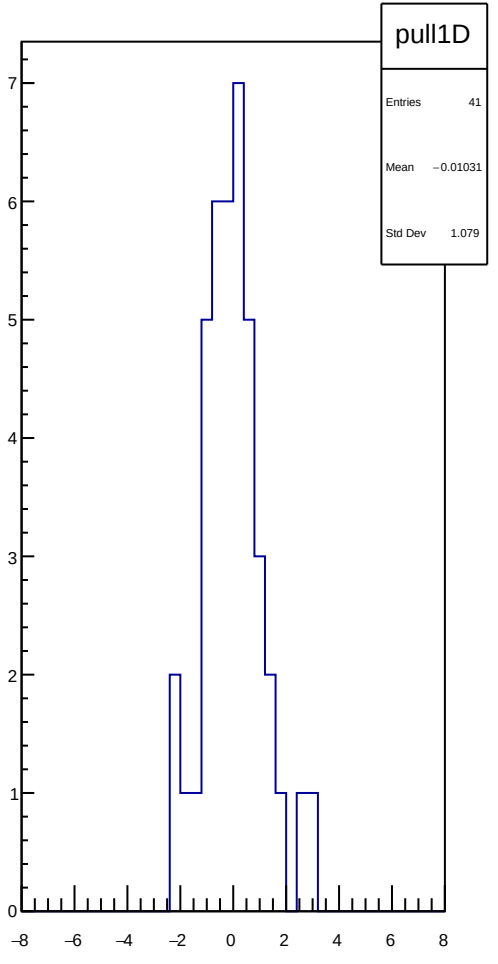
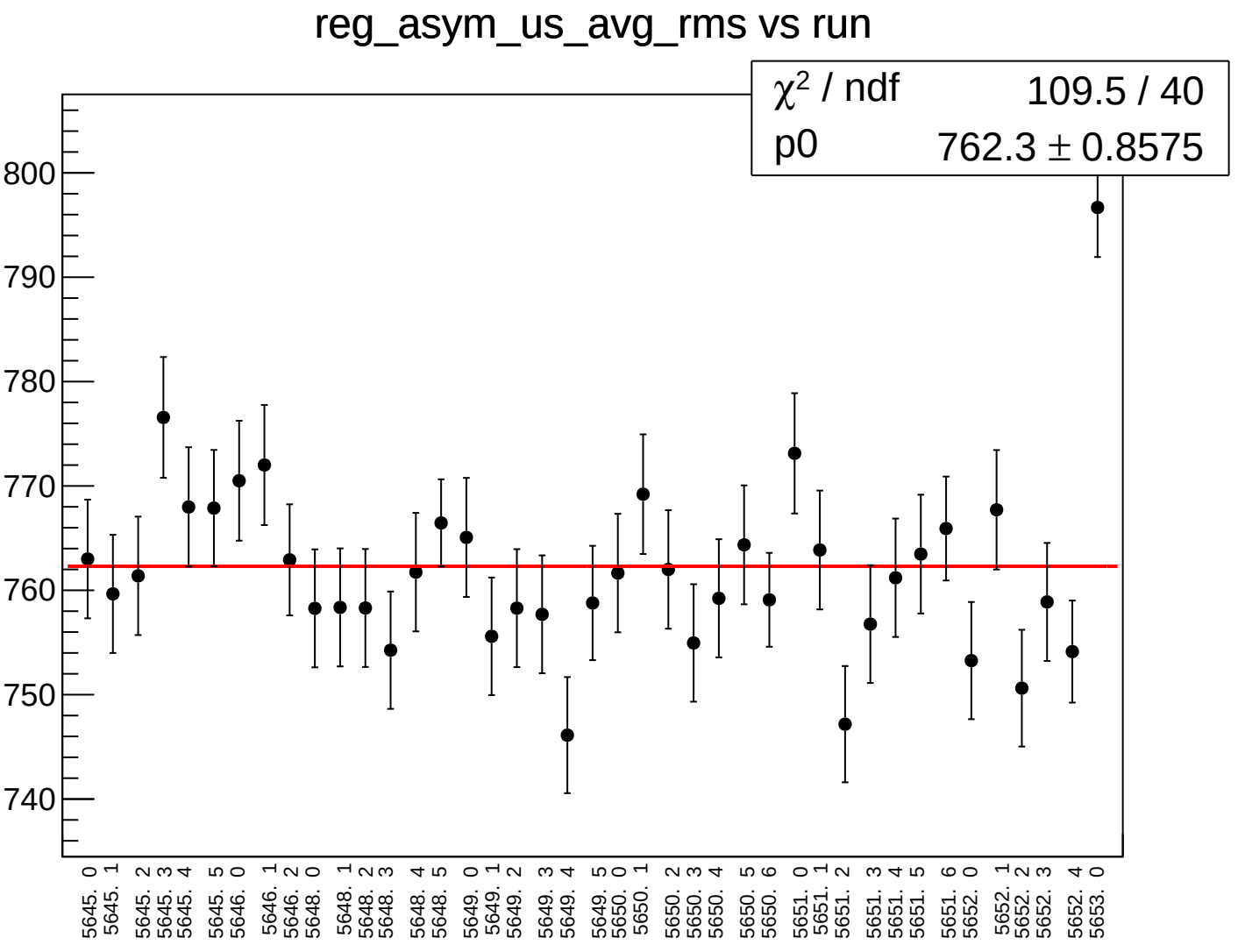
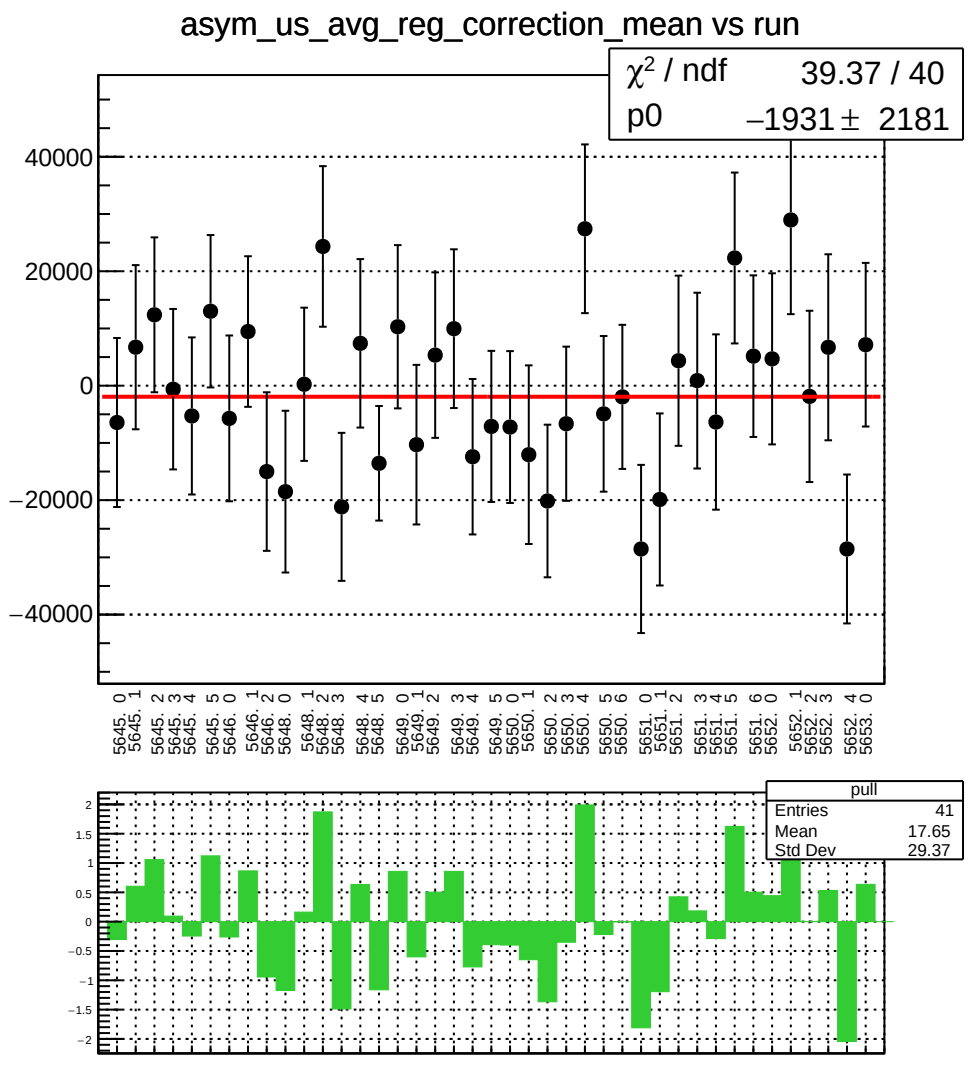
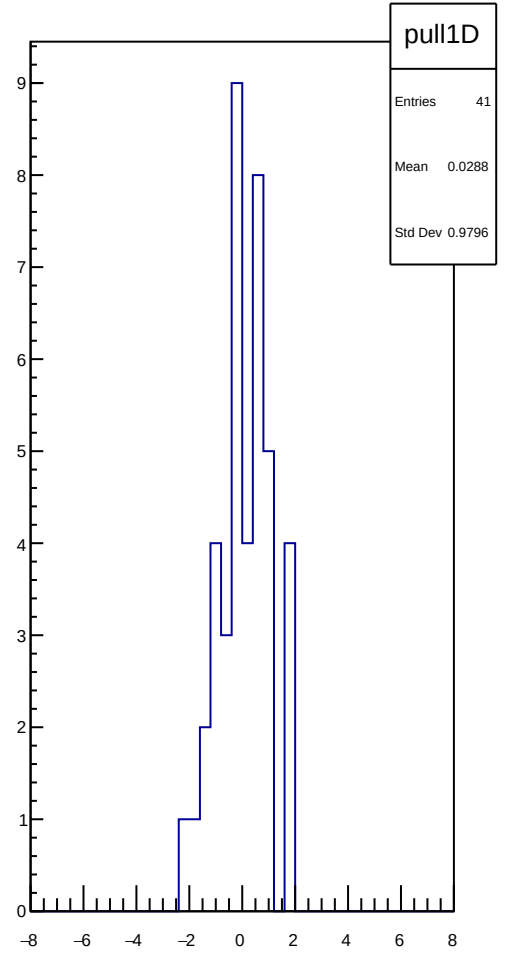
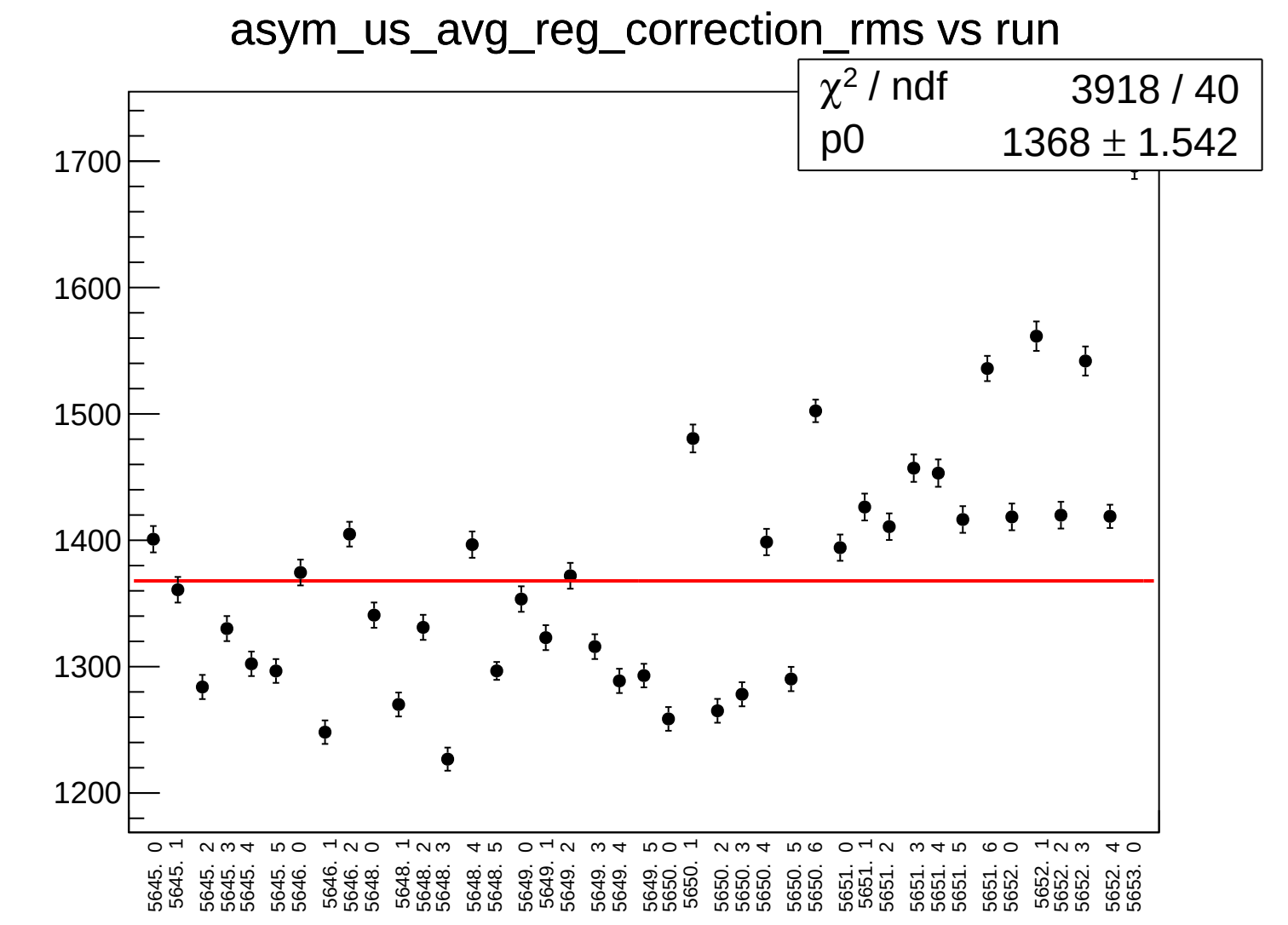

reg_asym_us_avg_mean vs run
χ² / ndf 47.74 / 40
p0 2921 ± 1213
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −30.23
Std Dev 0
3
2
1
0
−1
−2

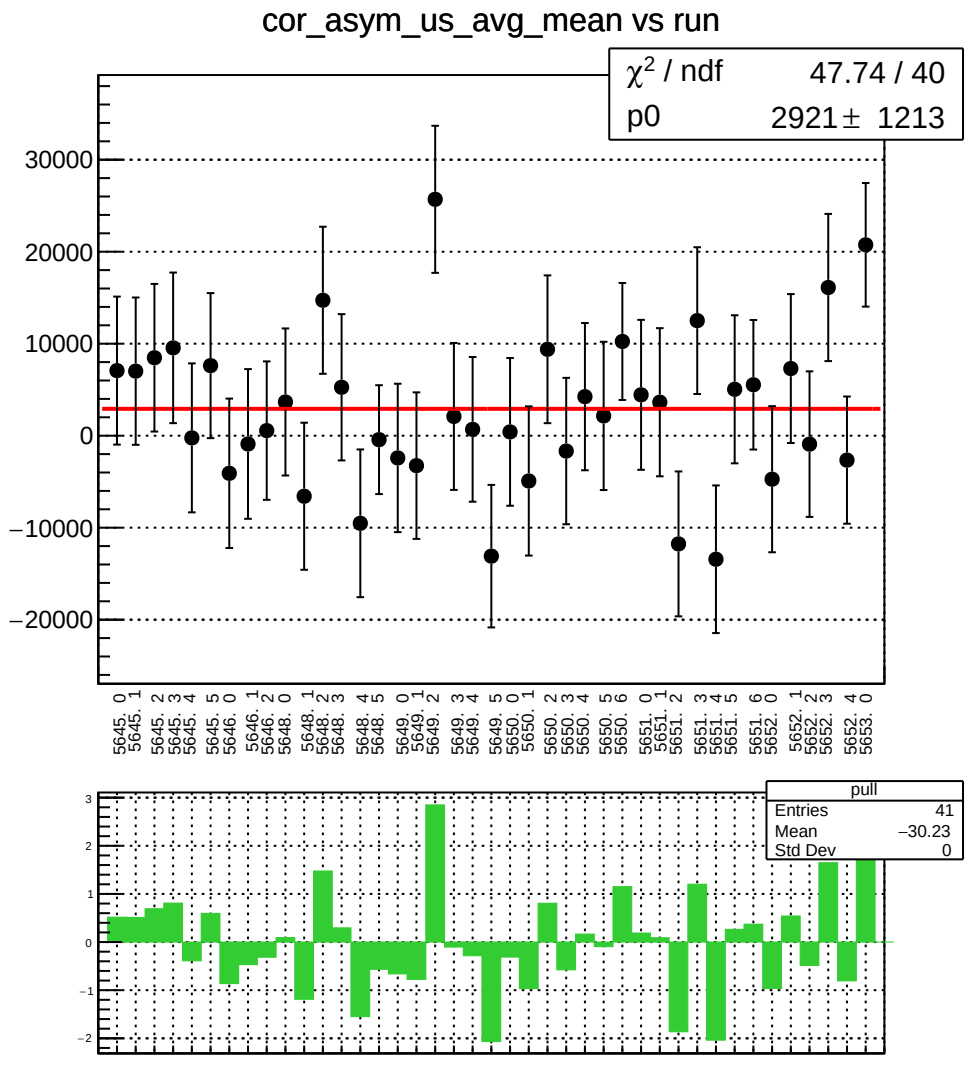

pull1D
Entries 41
Mean −0.01031
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

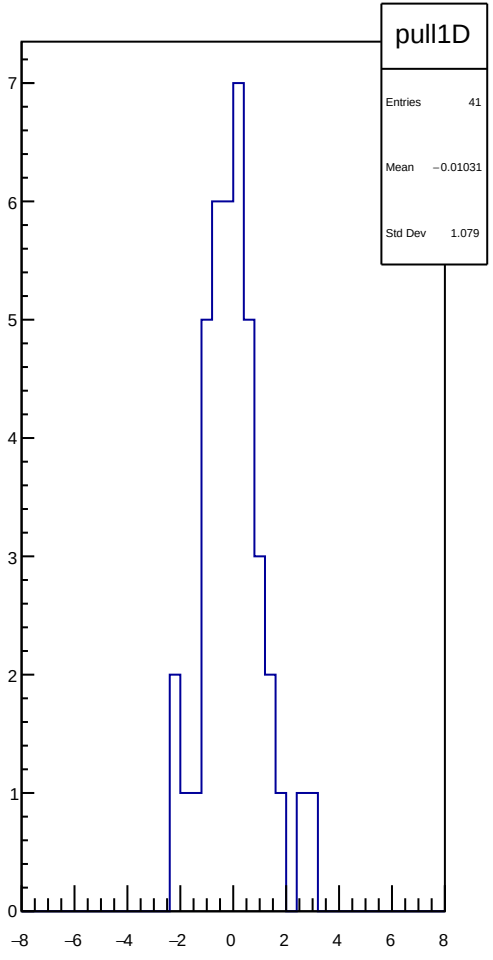

reg_asym_us_avg_rms vs run
χ² / ndf 109.5 / 40
p0 762.3 ± 0.8575
800
790
780
770
760
750
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

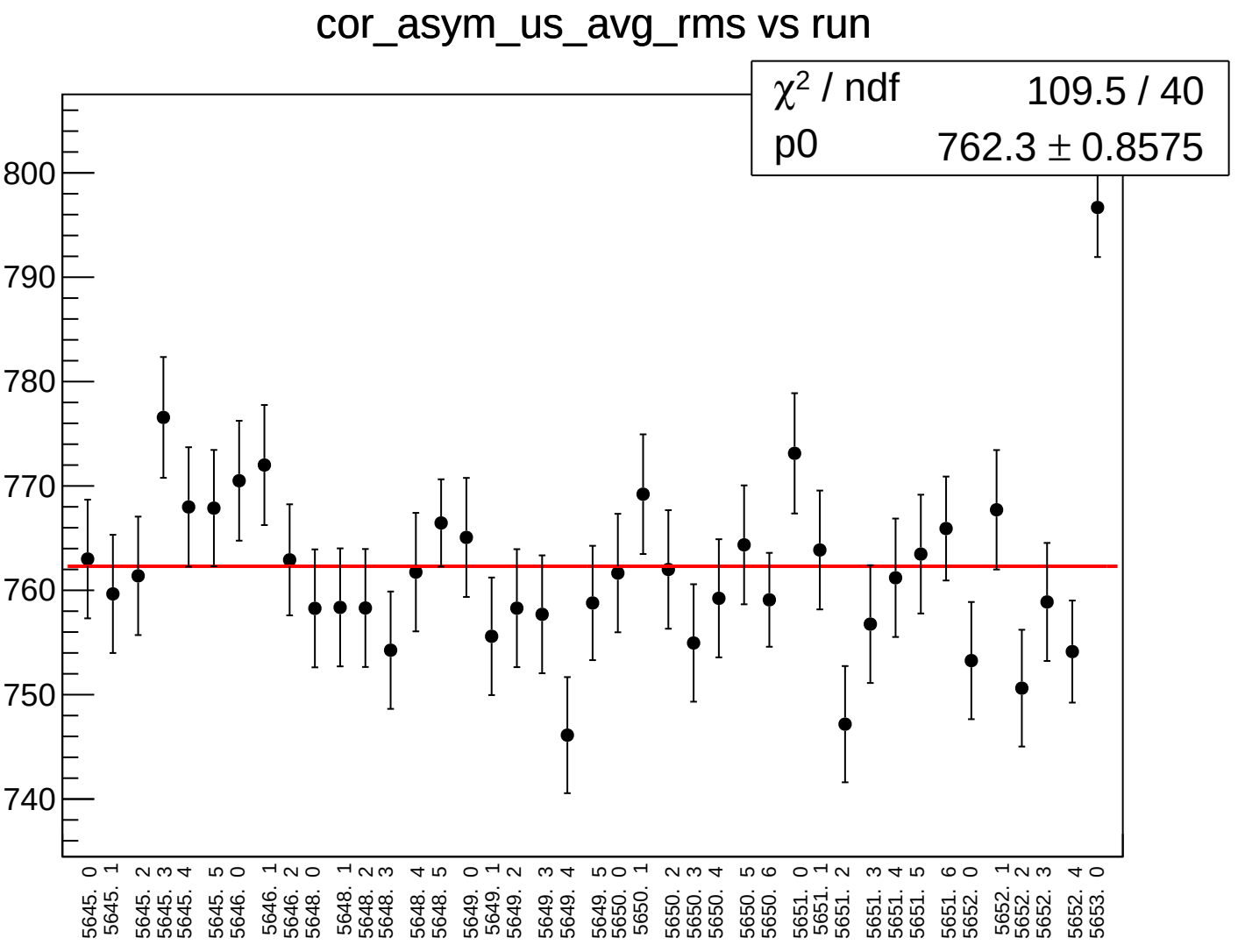

asym_us_avg_reg_correction_mean vs run
χ² / ndf 39.37 / 40
p0 −1931 ± 2181
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.65
Std Dev 29.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

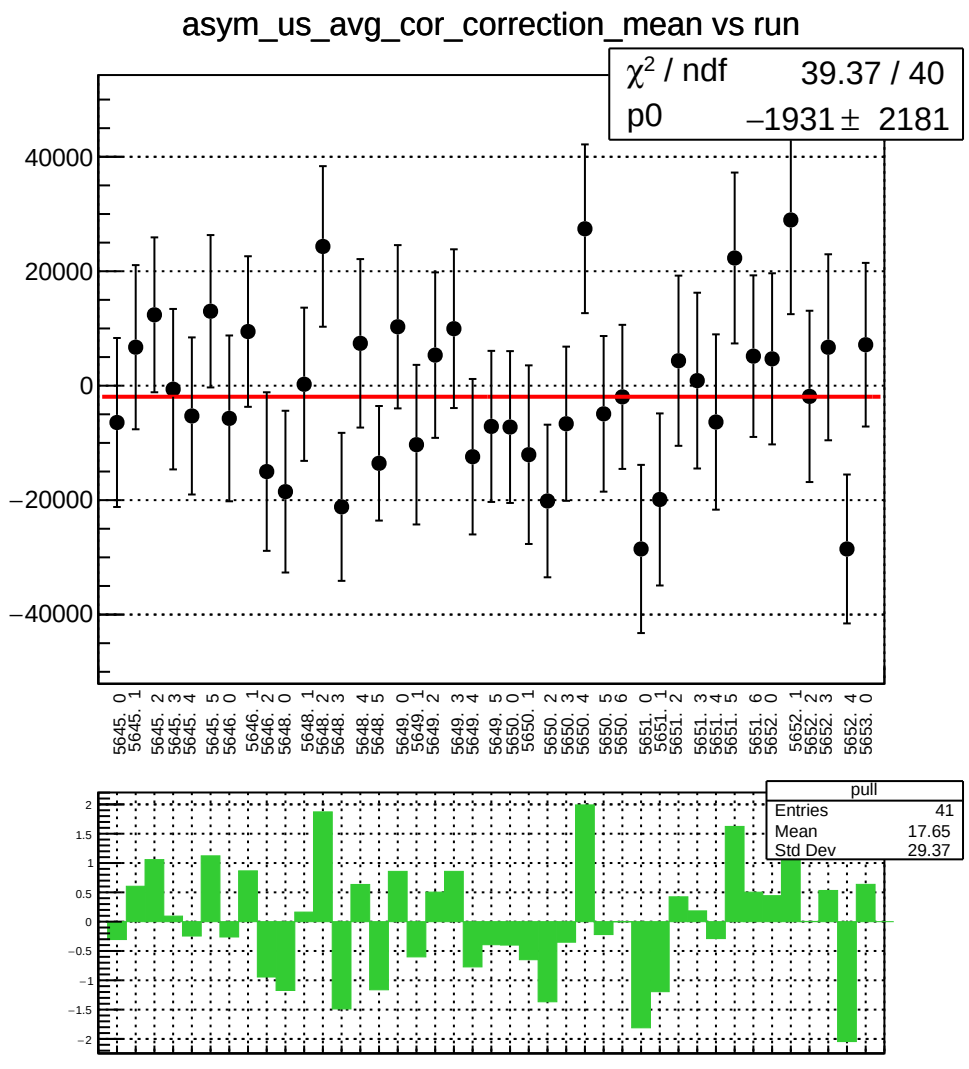

pull1D
Entries 41
Mean 0.0288
Std Dev 0.9796
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

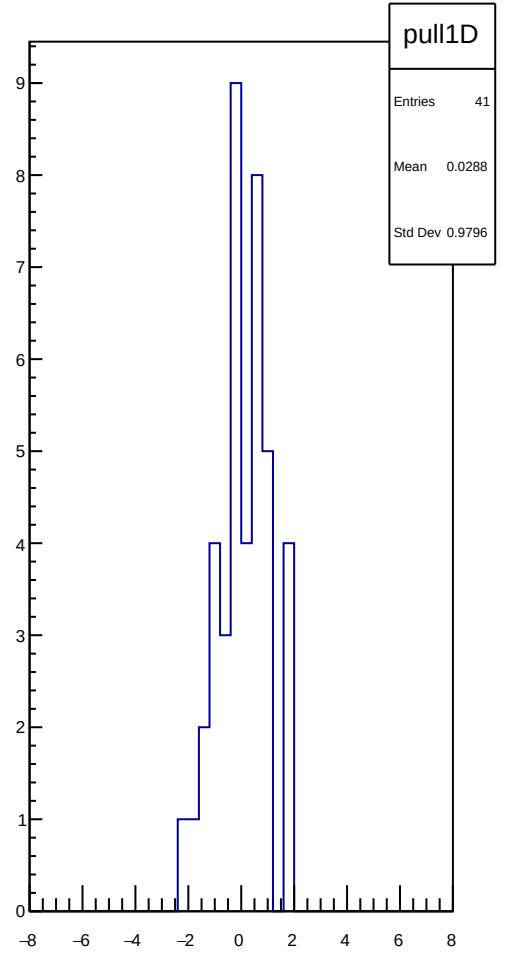

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3918 / 40
p0 1368 ± 1.542
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

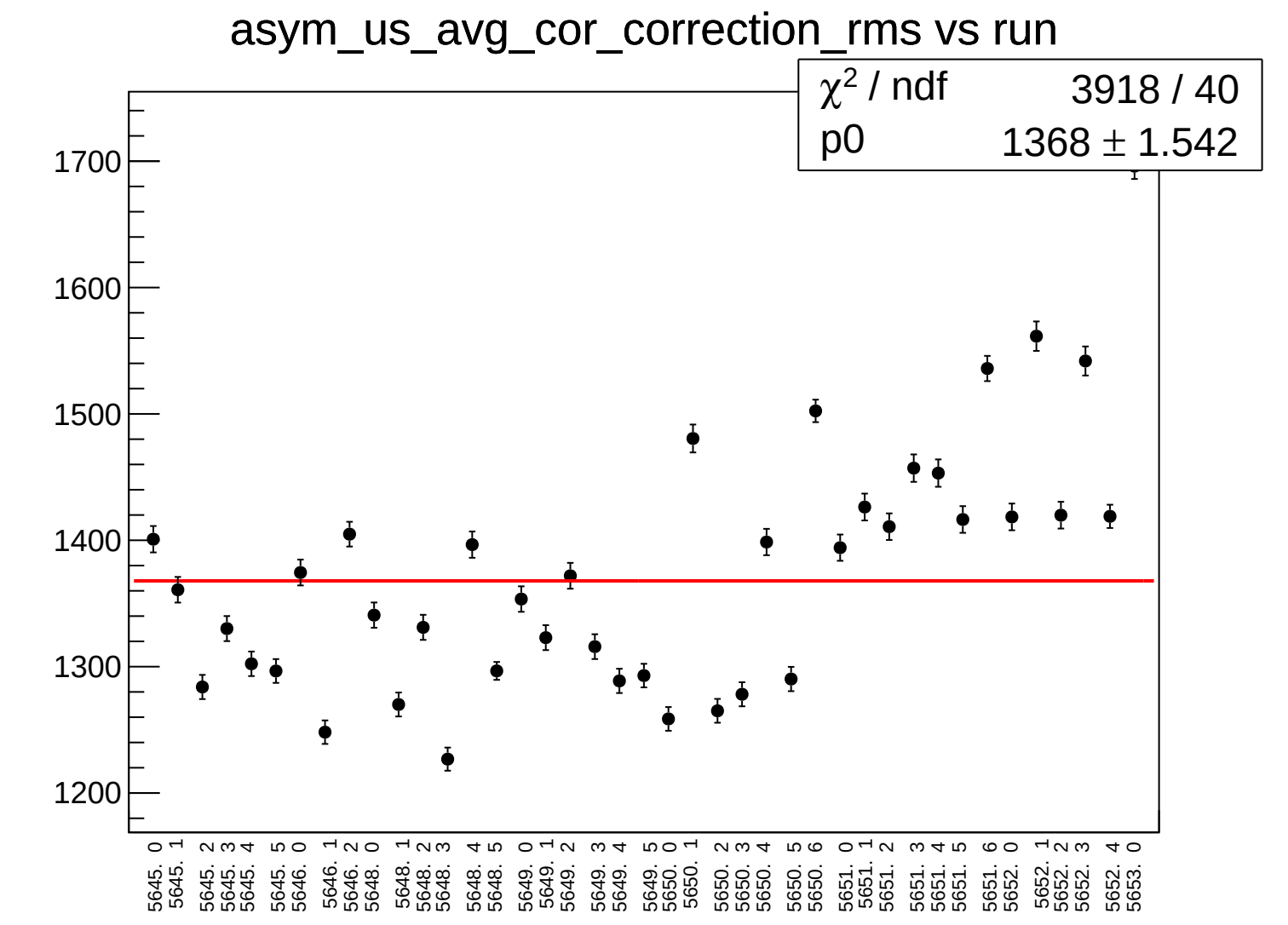

cor_asym_us_avg_mean vs run
χ² / ndf 47.74 / 40
p0 2921 ± 1213
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −30.23
Std Dev 0
3
2
1
0
−1
−2

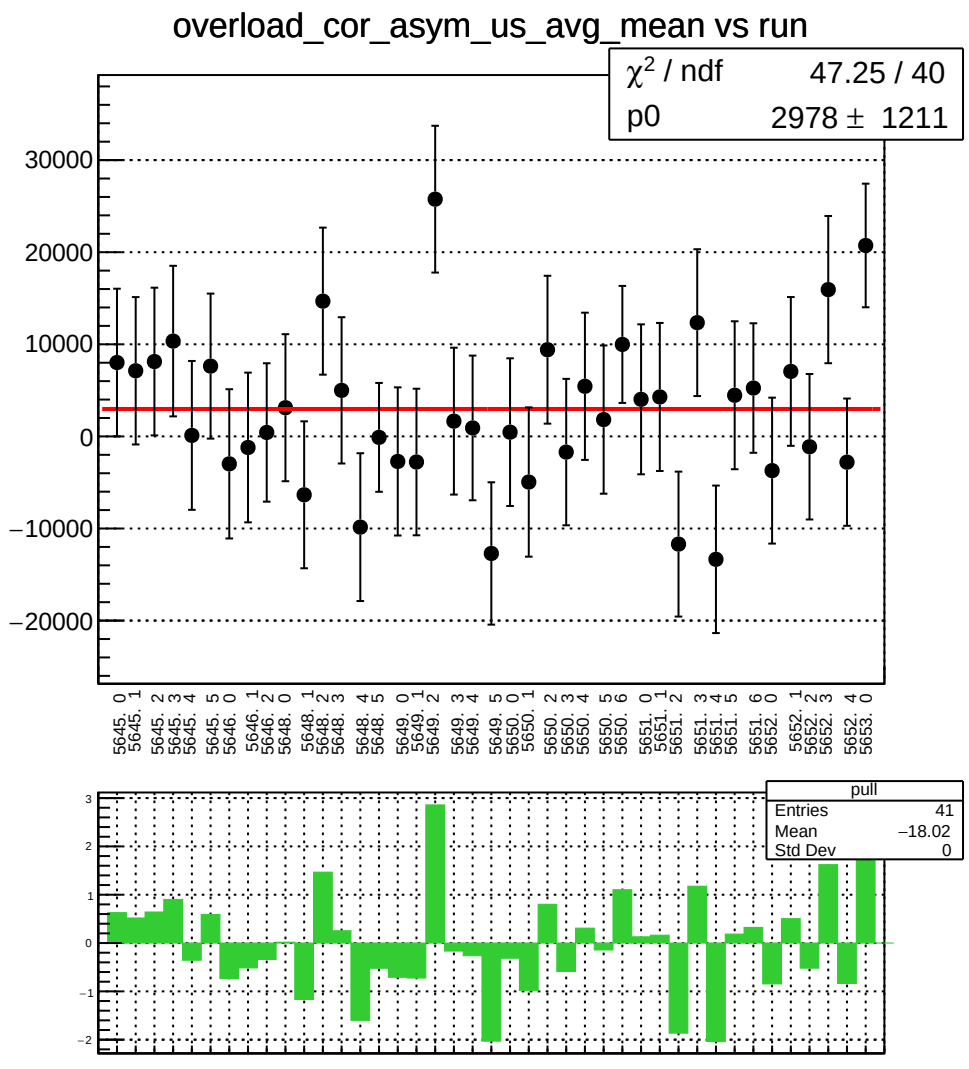

pull1D
Entries 41
Mean −0.01031
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

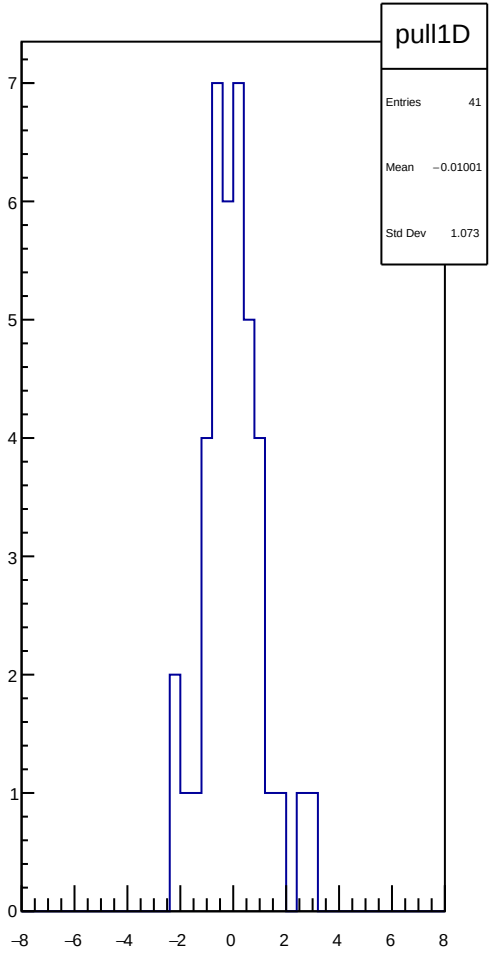

cor_asym_us_avg_rms vs run
χ² / ndf 109.5 / 40
p0 762.3 ± 0.8575
800
790
780
770
760
750
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

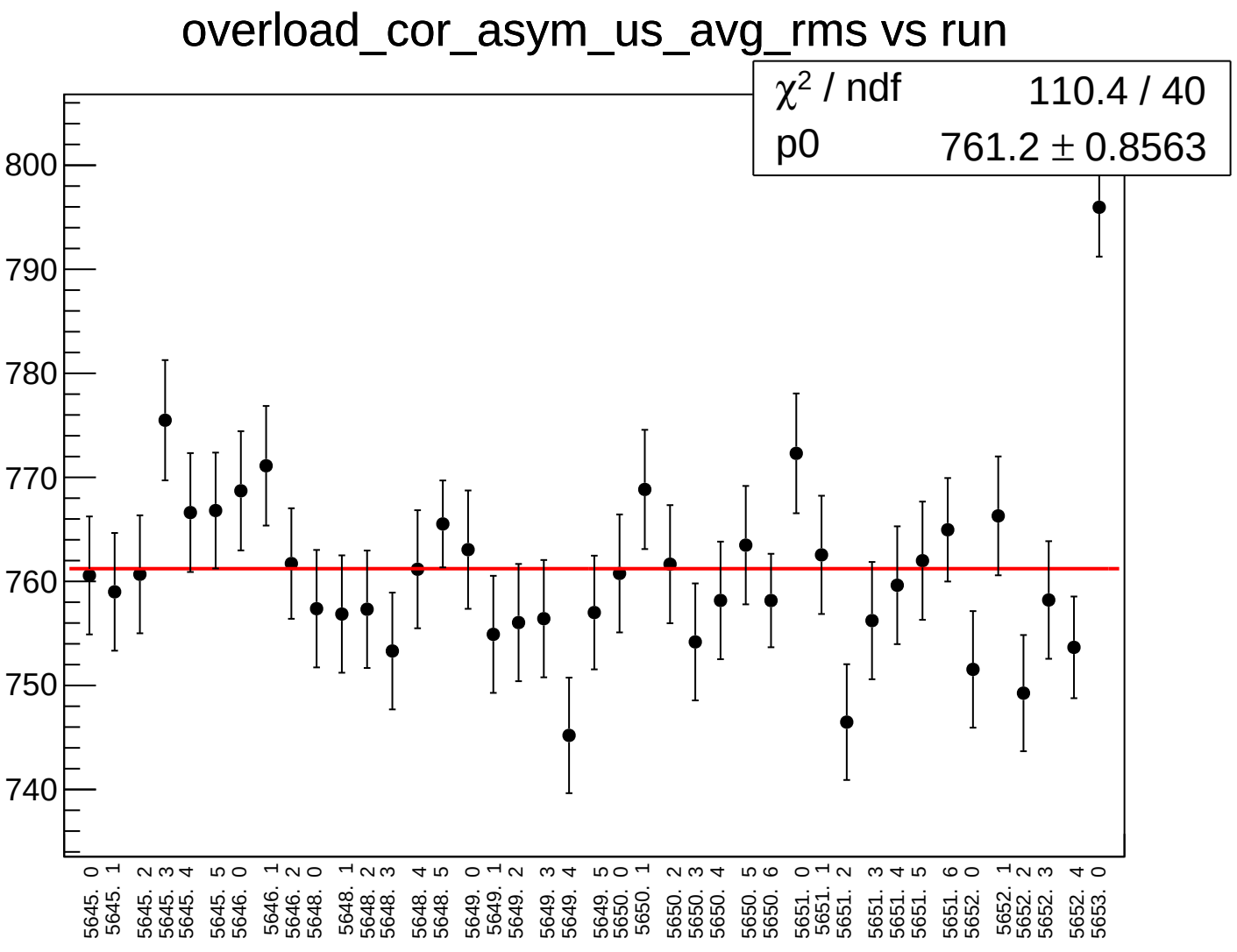

asym_us_avg_cor_correction_mean vs run
χ² / ndf 39.37 / 40
p0 −1931 ± 2181
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.65
Std Dev 29.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

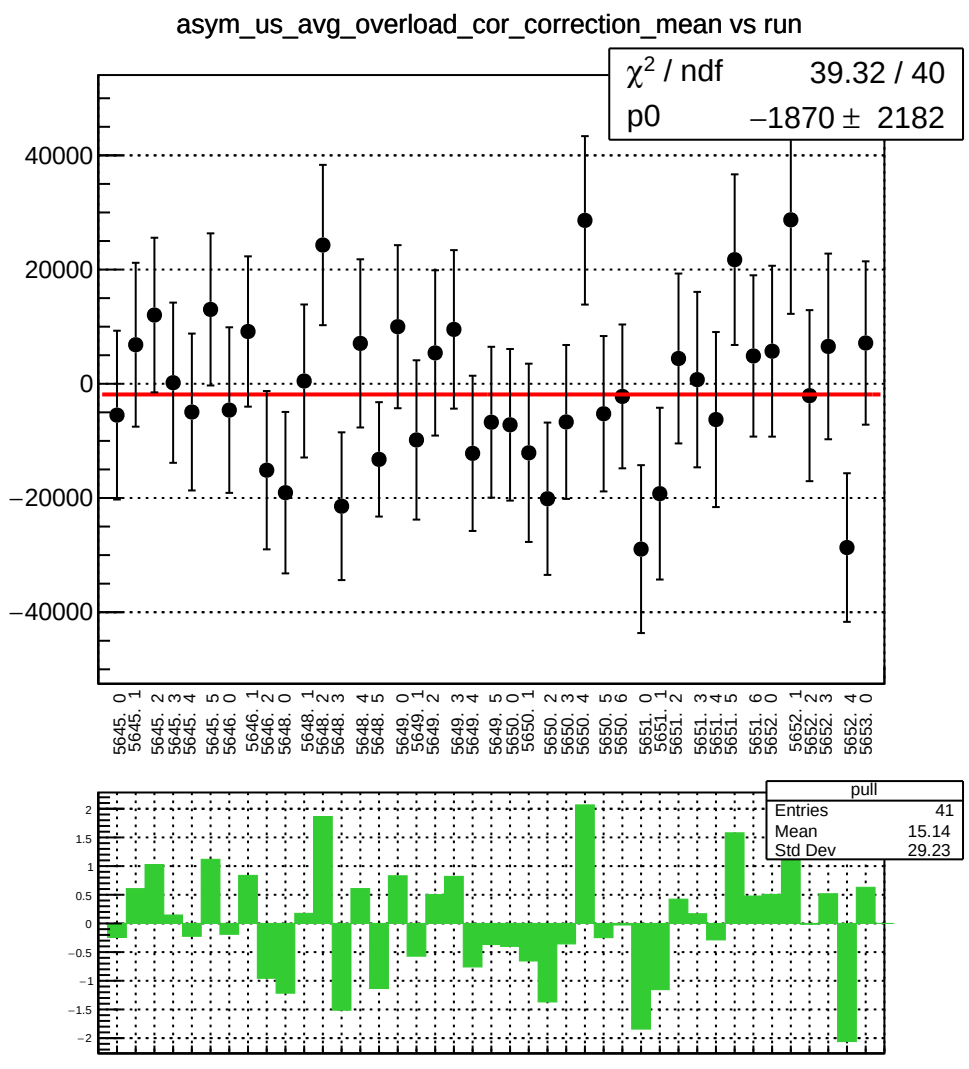

pull1D
Entries 41
Mean 0.0288
Std Dev 0.9796
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

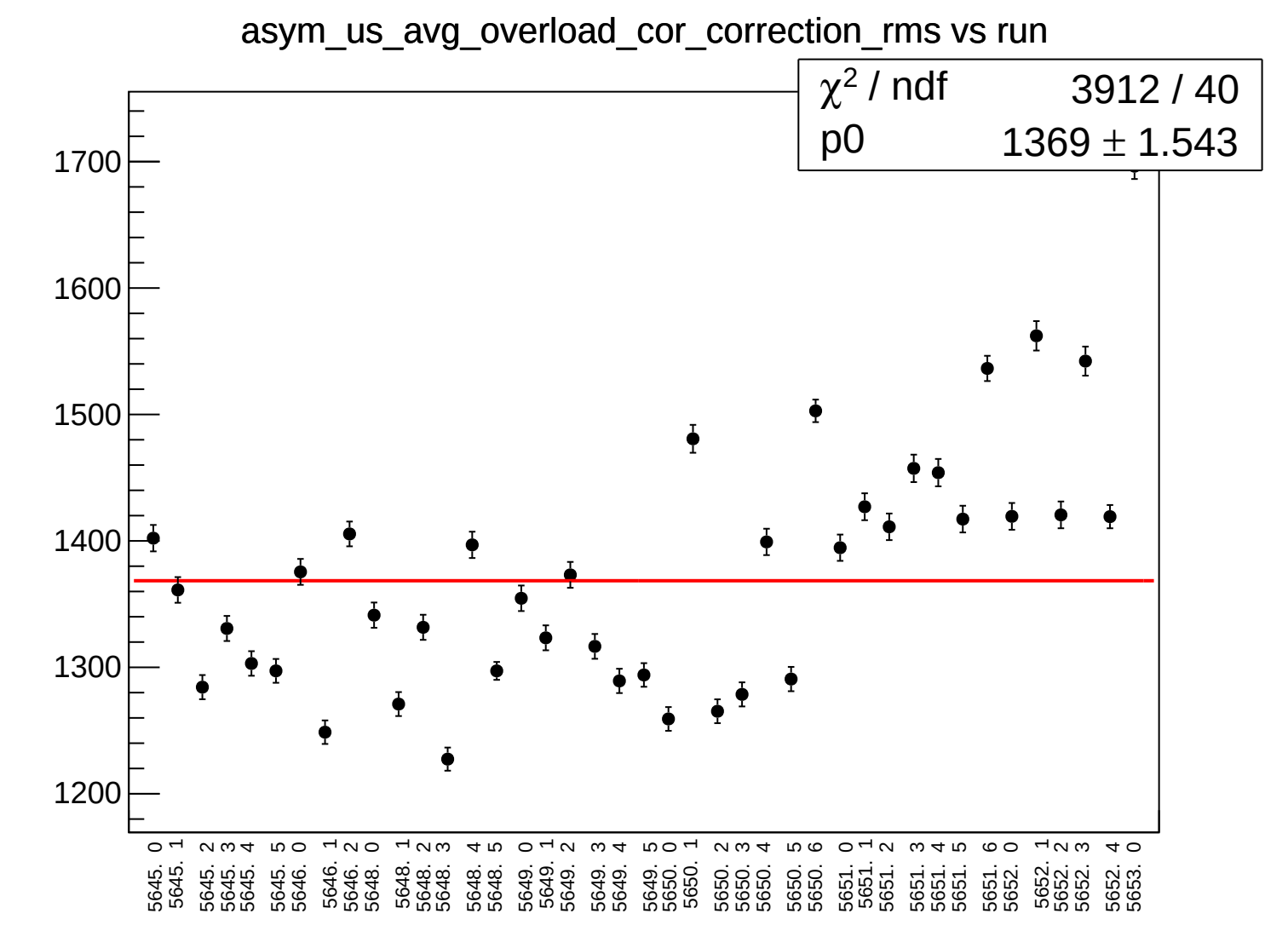

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3918 / 40
p0 1368 ± 1.542
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

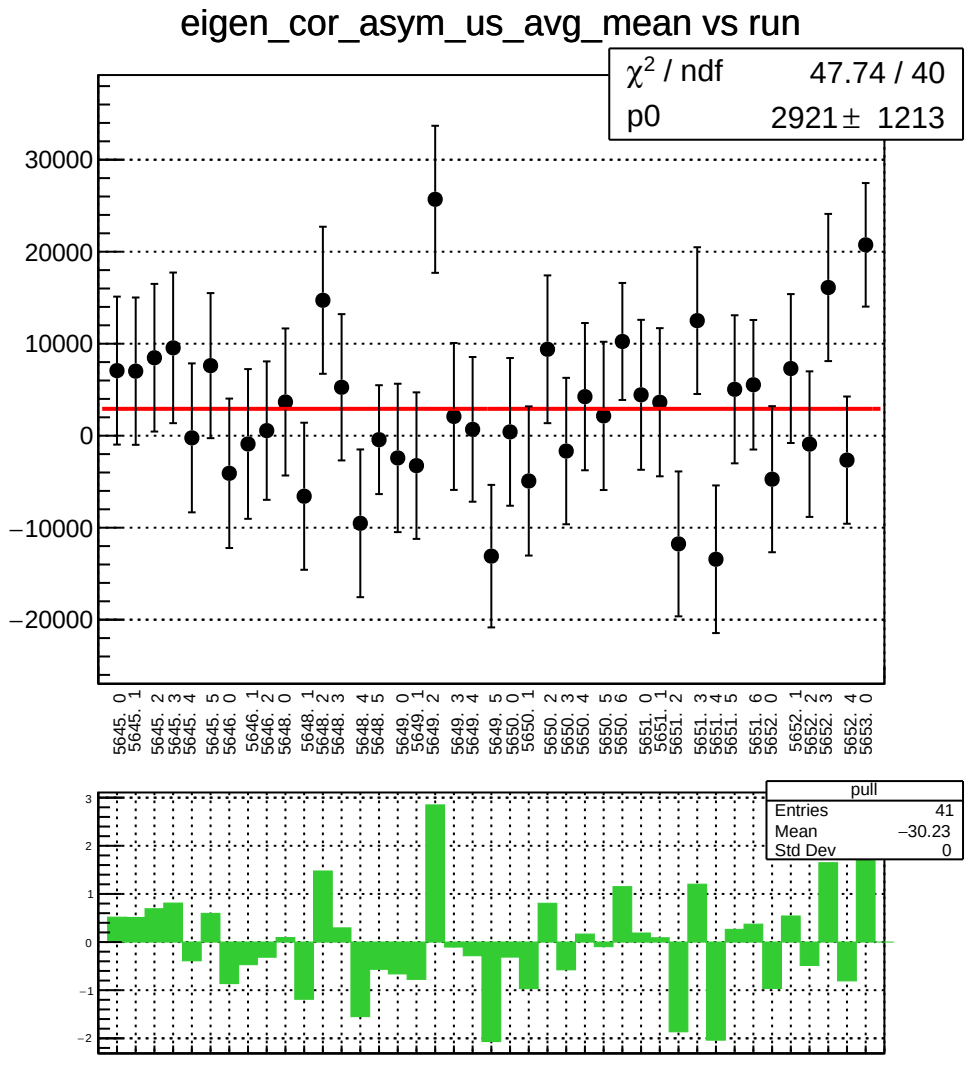

overload_cor_asym_us_avg_mean vs run
χ² / ndf 47.25 / 40
p0 2978 ± 1211
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −18.02
Std Dev 0
3
2
1
0
−1
−2

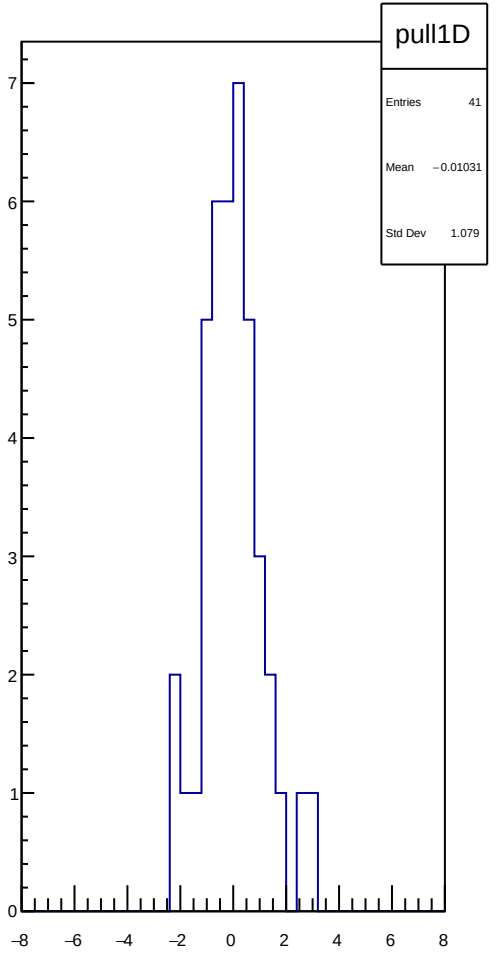

pull1D
Entries 41
Mean −0.01001
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

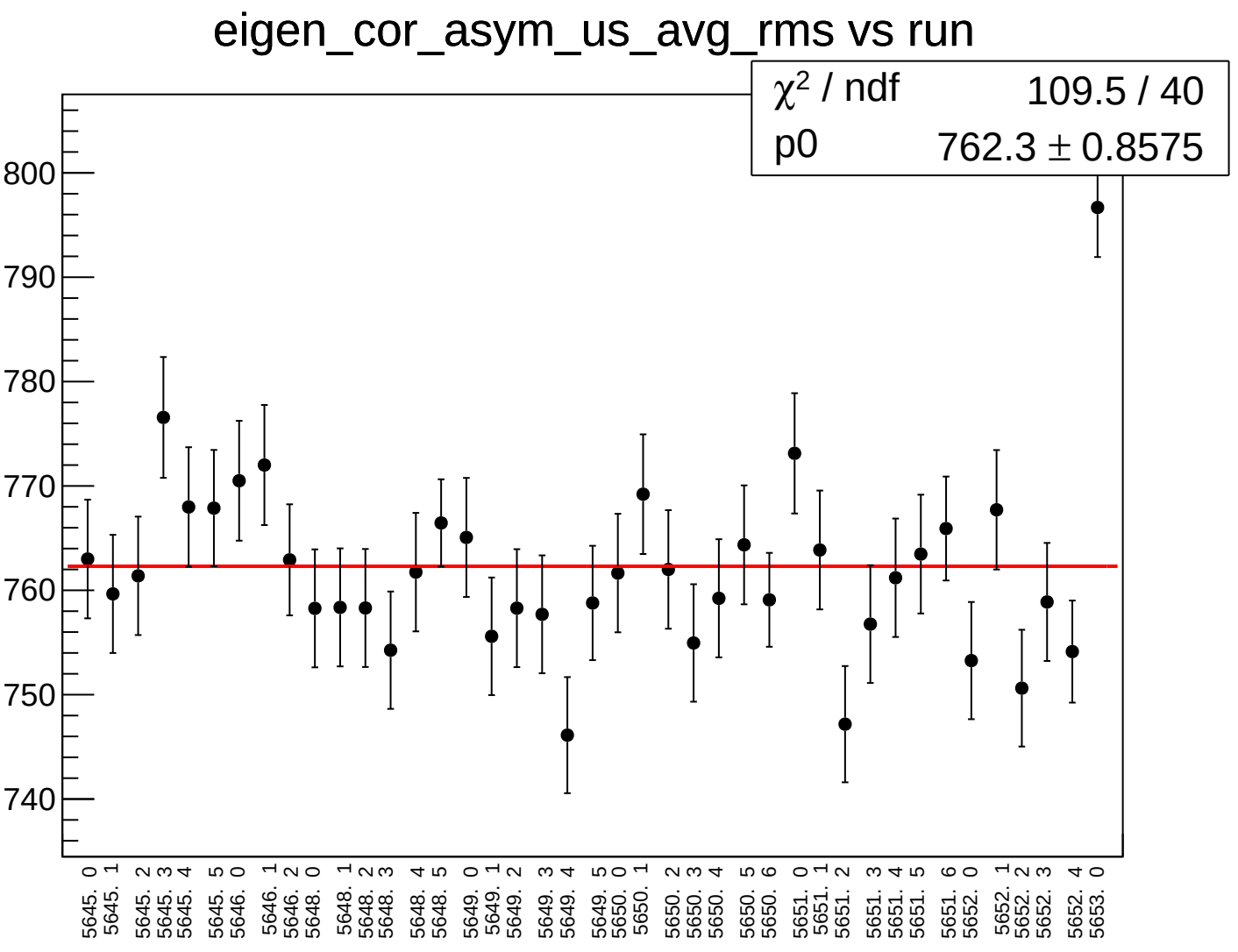

overload_cor_asym_us_avg_rms vs run
χ² / ndf 110.4 / 40
p0 761.2 ± 0.8563
800
790
780
770
760
750
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

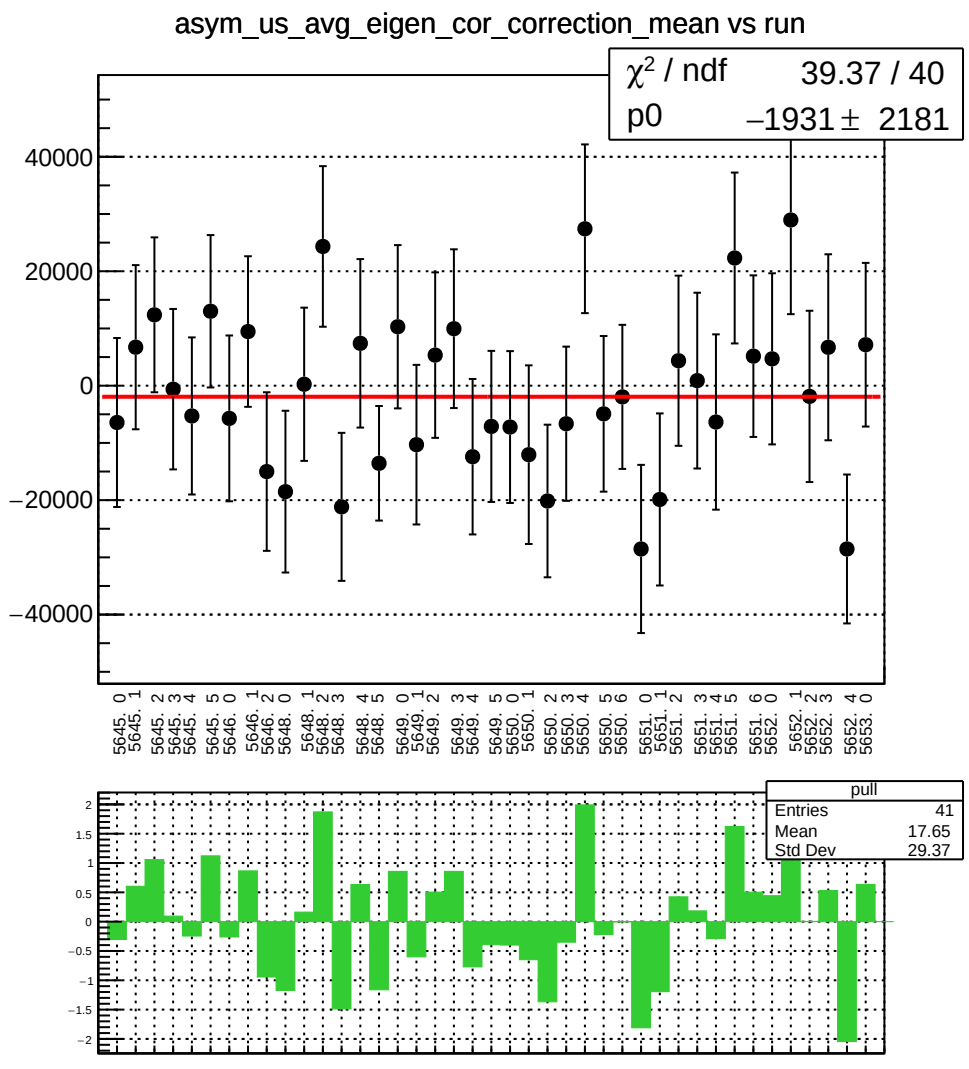

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 39.32 / 40
p0 −1870 ± 2182
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.14
Std Dev 29.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0288
Std Dev 0.9789
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

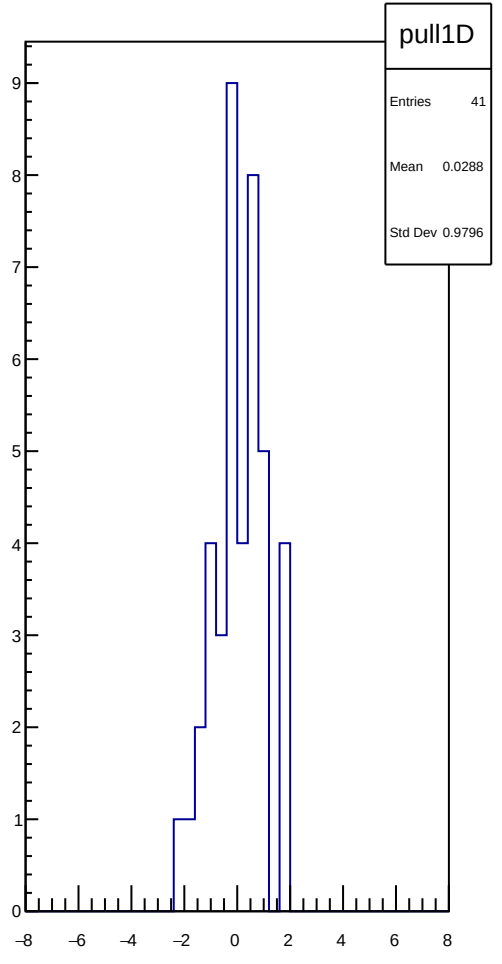

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3912 / 40
p0 1369 ± 1.543
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

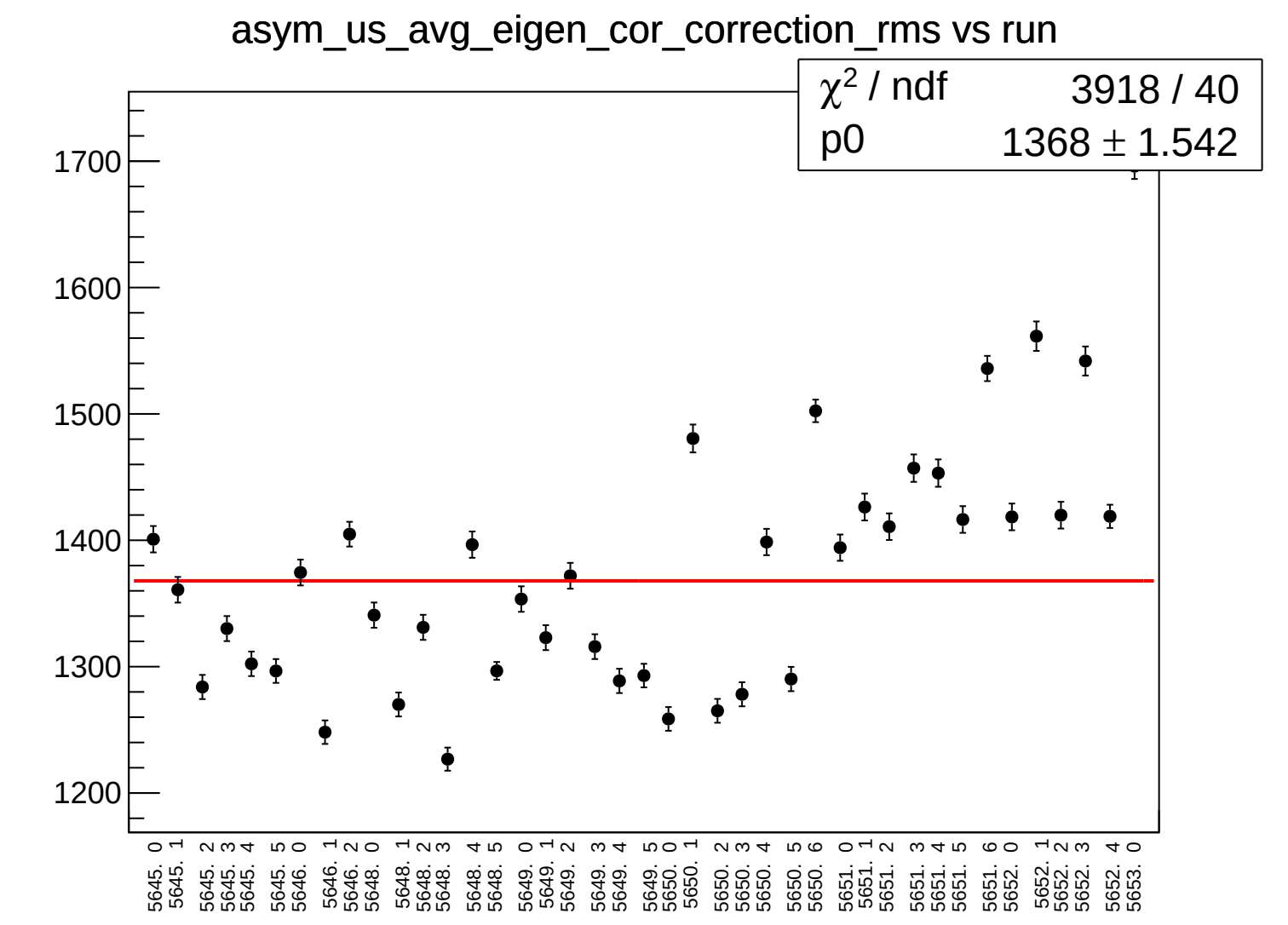

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 47.74 / 40
p0 2921 ± 1213
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −30.23
Std Dev 0
3
2
1
0
−1
−2

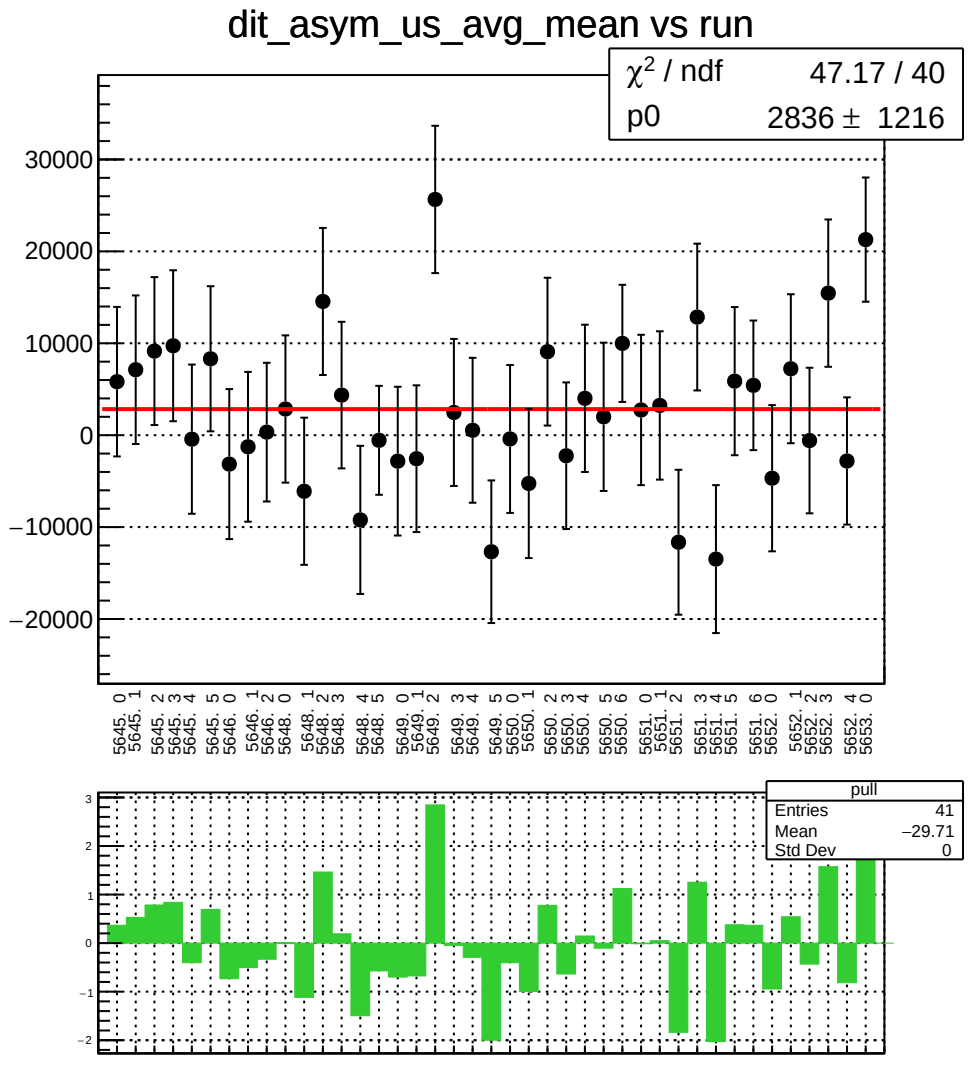

pull1D
Entries 41
Mean −0.01031
Std Dev 1.079
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

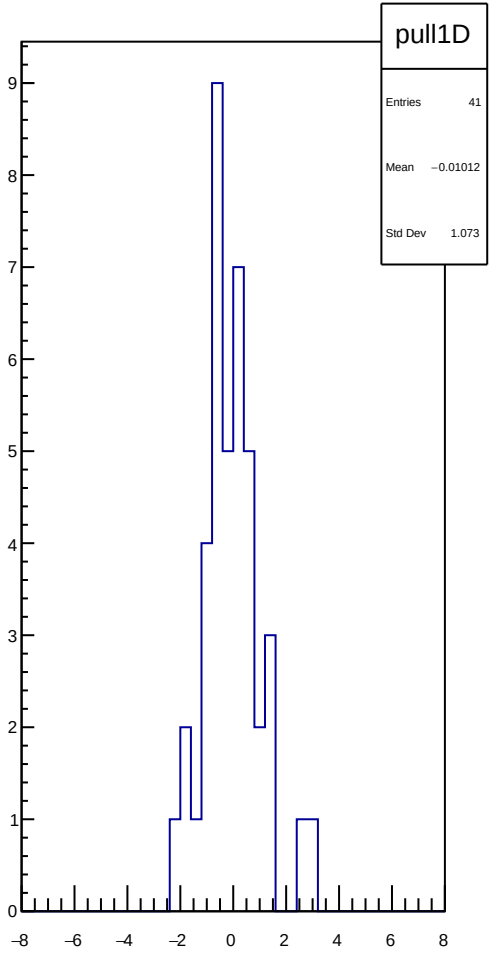

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 109.5 / 40
p0 762.3 ± 0.8575
800
790
780
770
760
750
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

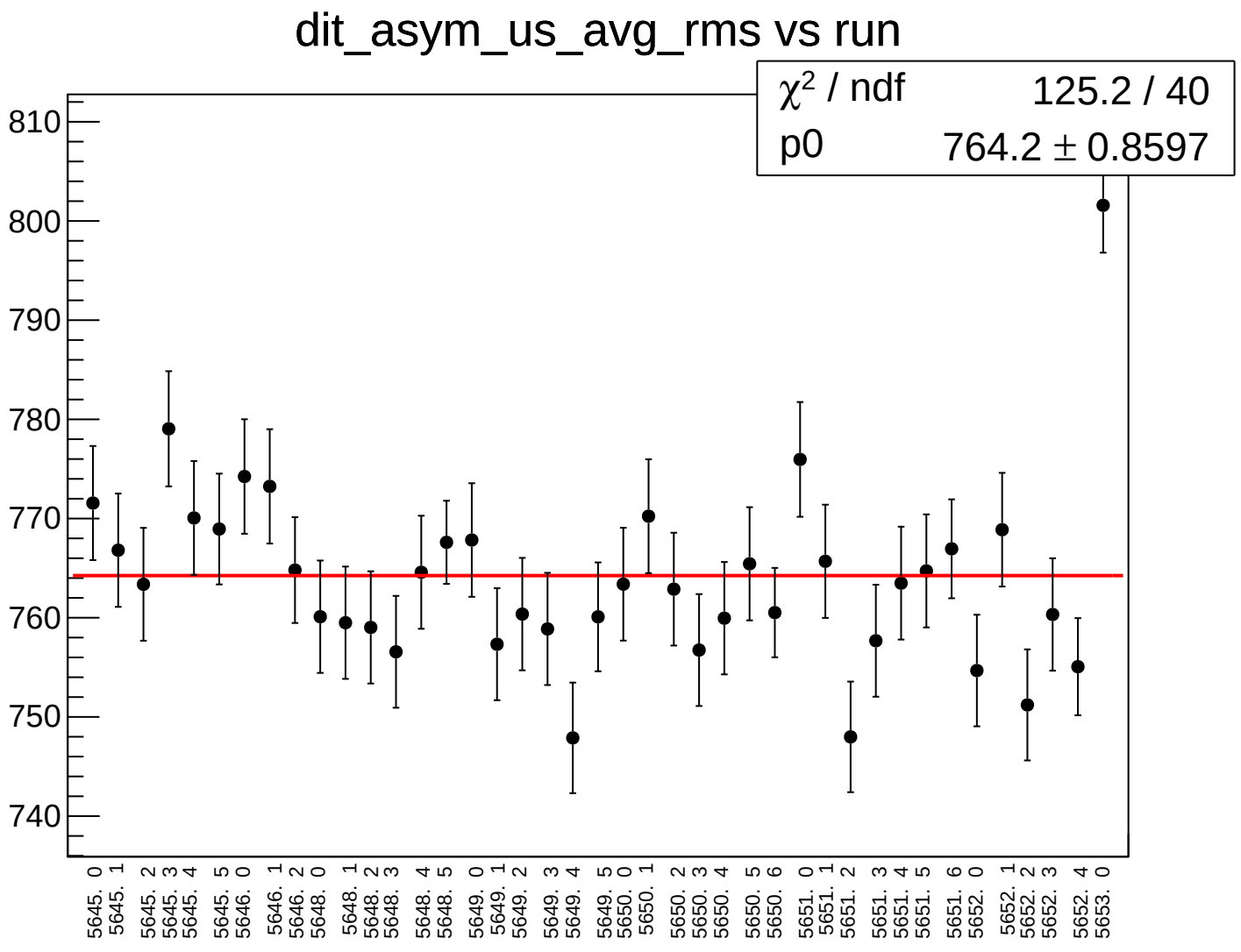

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.37 / 40
p0 −1931 ± 2181
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.65
Std Dev 29.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

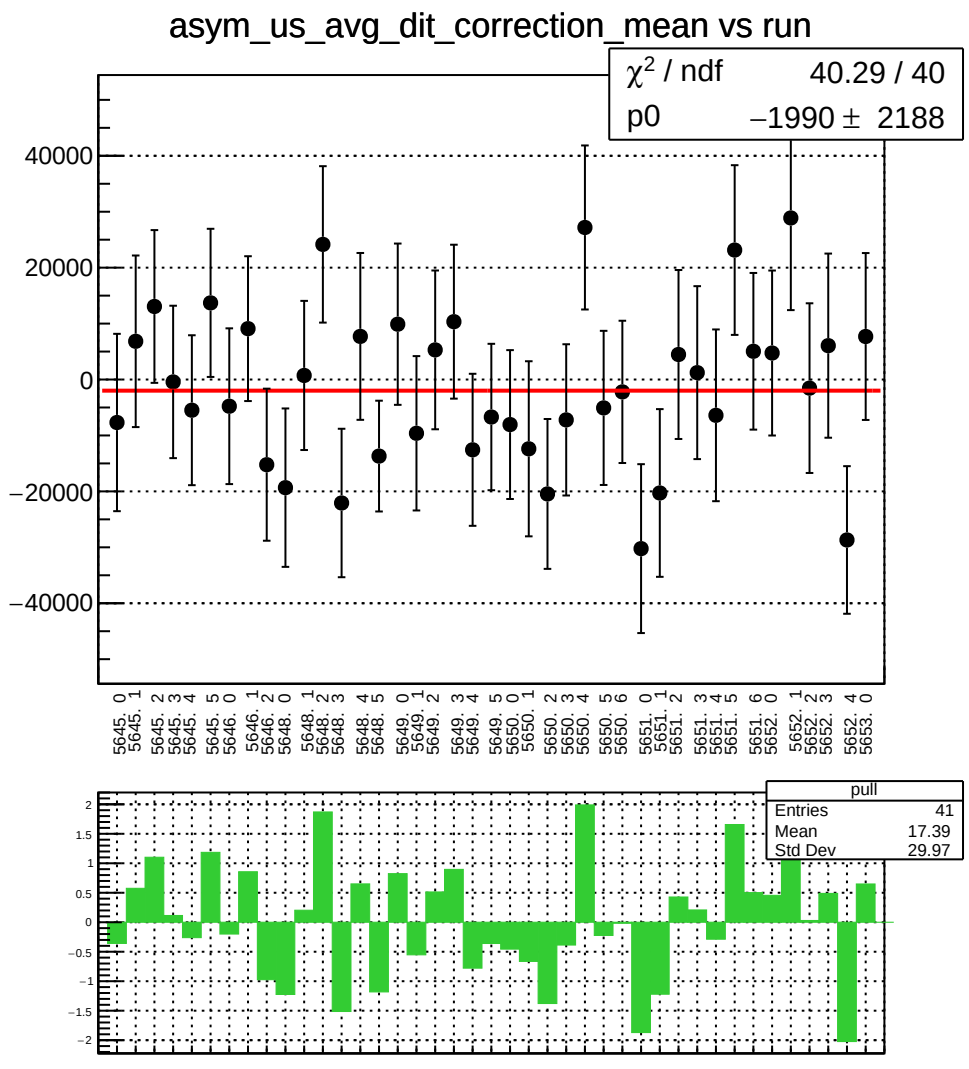

pull1D
Entries 41
Mean 0.0288
Std Dev 0.9796
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

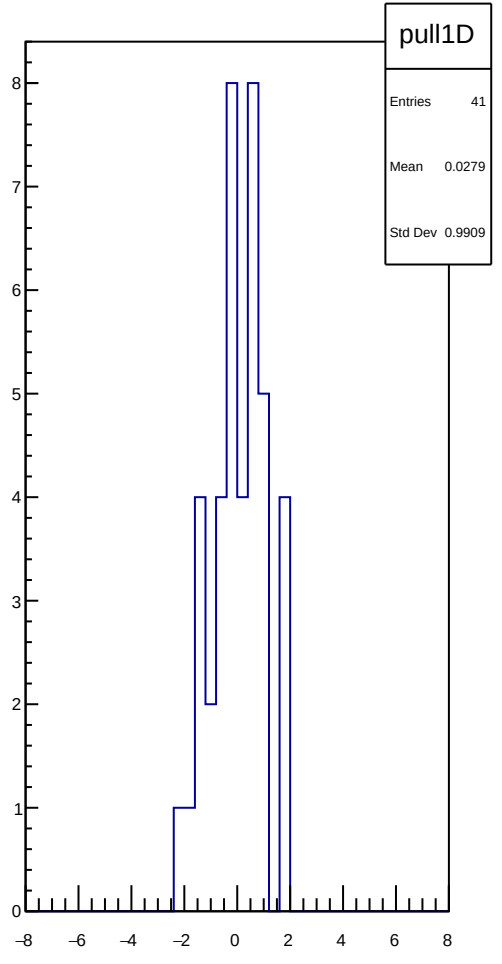

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3918 / 40
p0 1368 ± 1.542
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

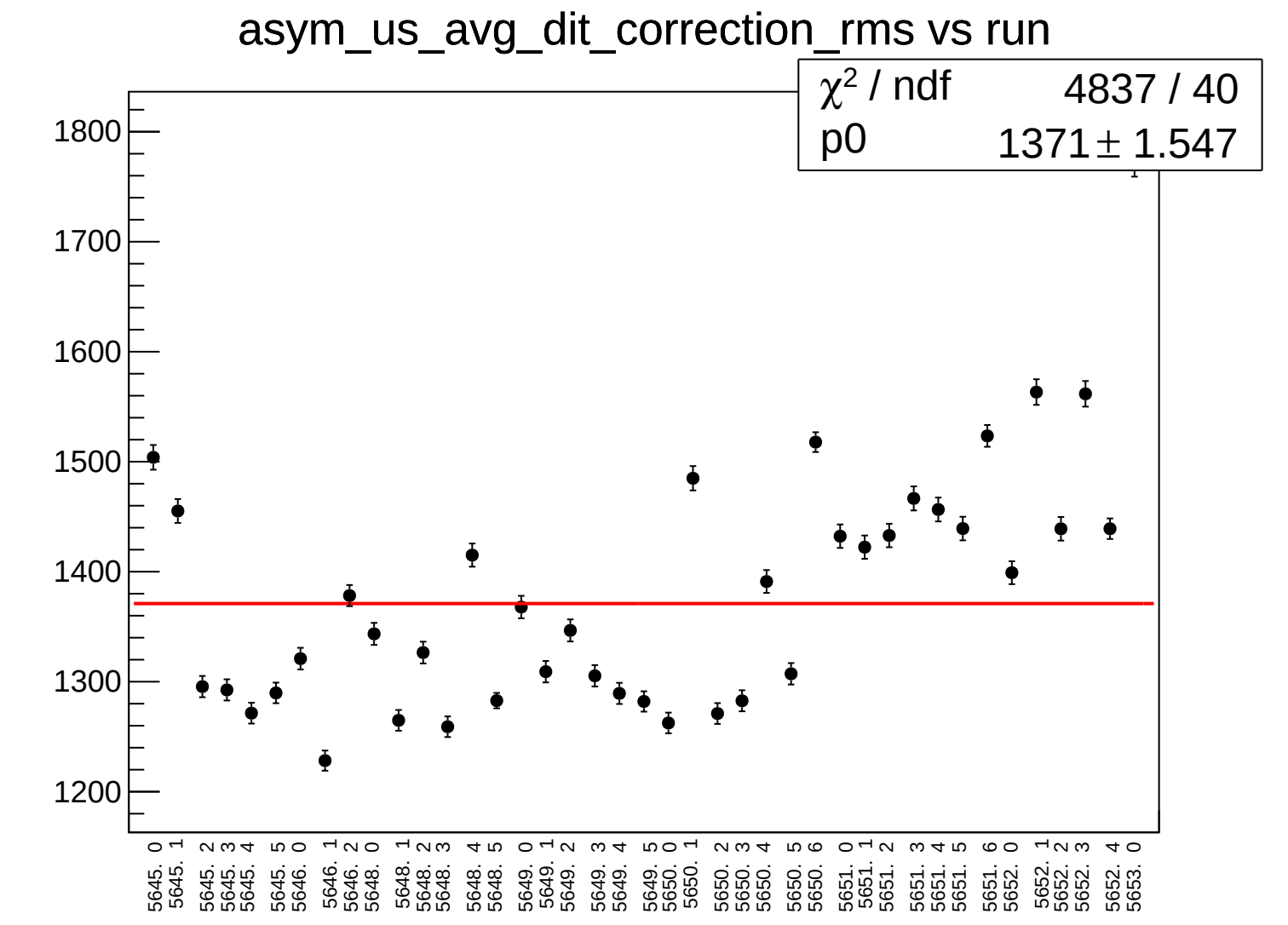

dit_asym_us_avg_mean vs run
χ² / ndf 47.17 / 40
p0 2836 ± 1216
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −29.71
Std Dev 0
3
2
1
0
−1
−2

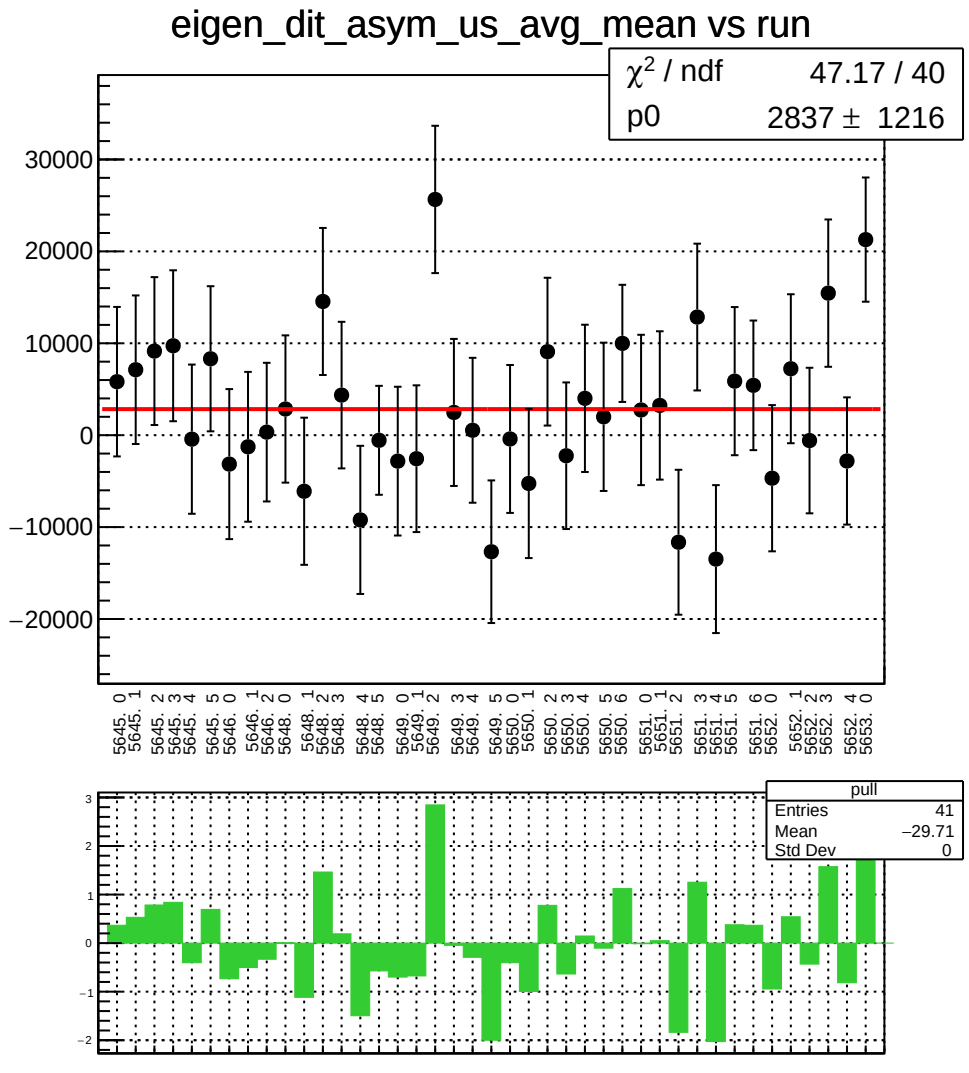

pull1D
Entries 41
Mean −0.01012
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

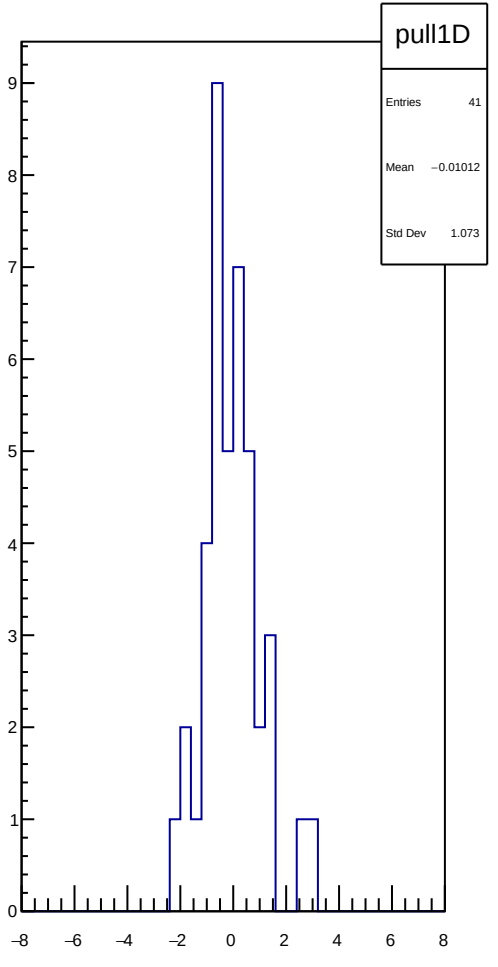

dit_asym_us_avg_rms vs run
χ² / ndf 125.2 / 40
p0 764.2 ± 0.8597
810
800
790
780
770
760
750
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

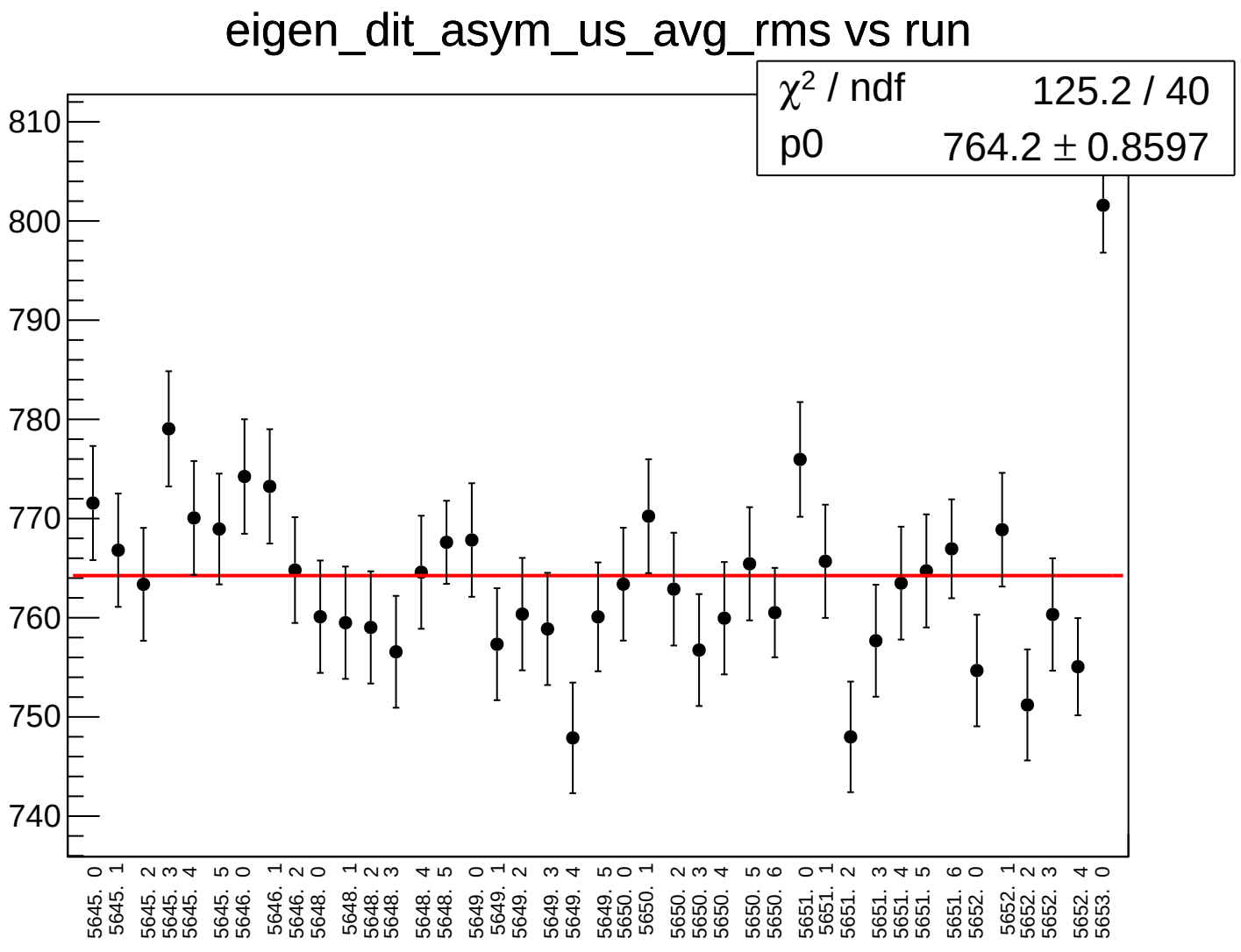

asym_us_avg_dit_correction_mean vs run
χ² / ndf 40.29 / 40
p0 −1990 ± 2188
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.39
Std Dev 29.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

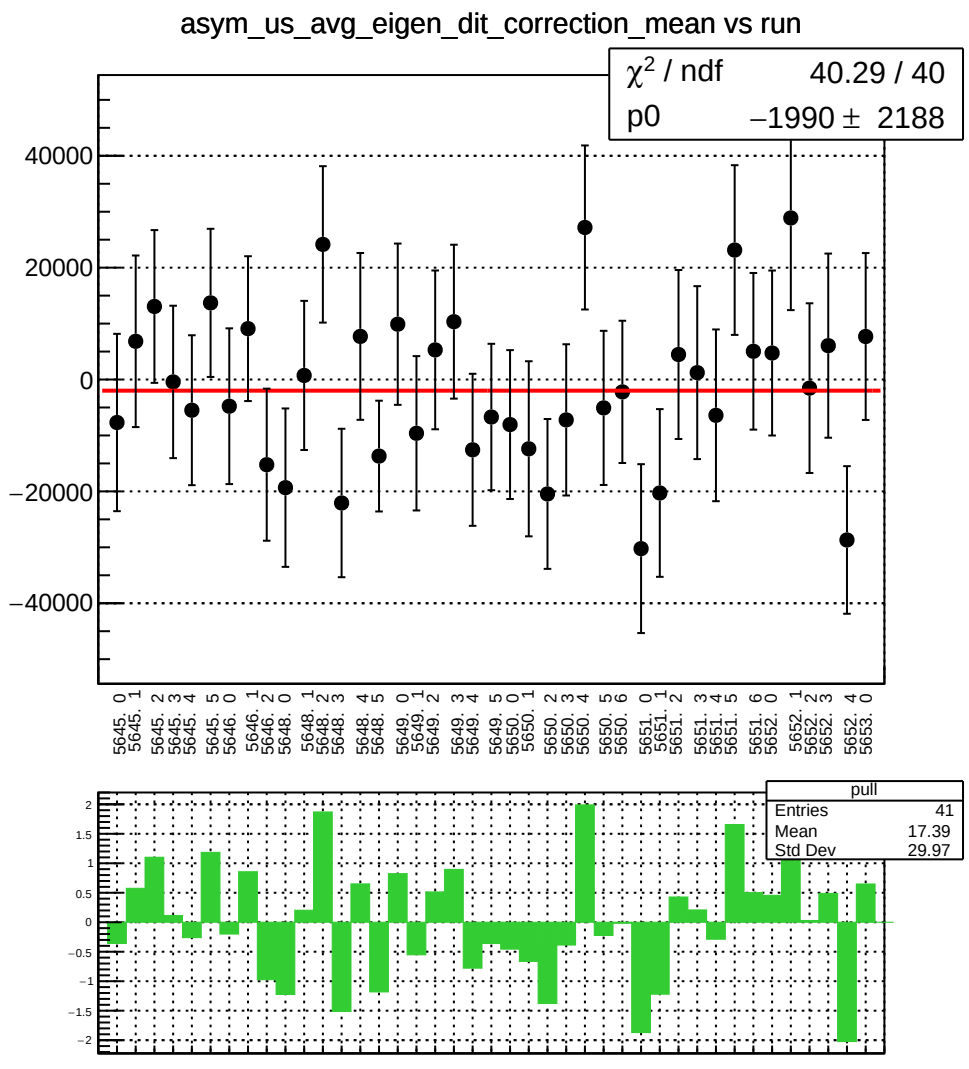

pull1D
Entries 41
Mean 0.0279
Std Dev 0.9909
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

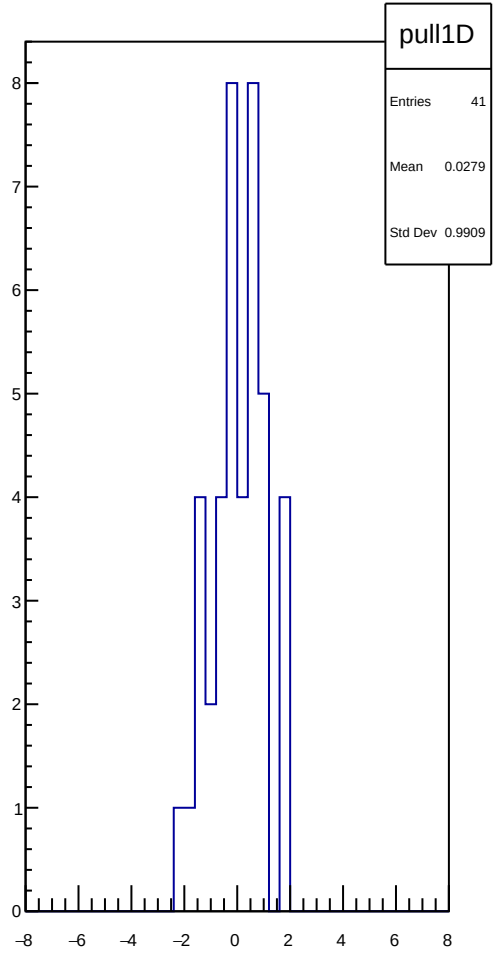

asym_us_avg_dit_correction_rms vs run
χ² / ndf 4837 / 40
p0 1371 ± 1.547
1800
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

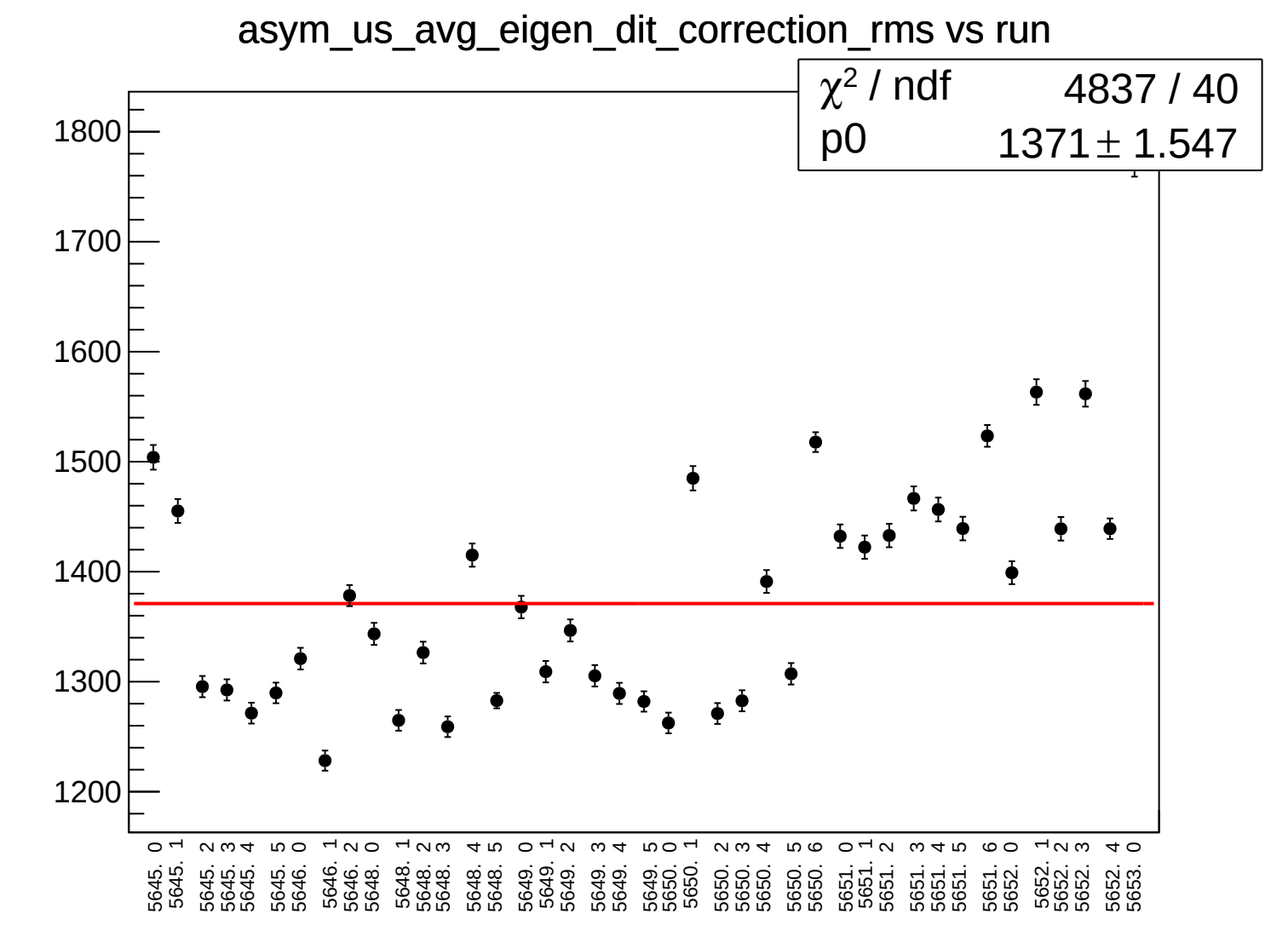

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 47.17 / 40
p0 2837 ± 1216
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −29.71
Std Dev 0
3
2
1
0
−1
−2

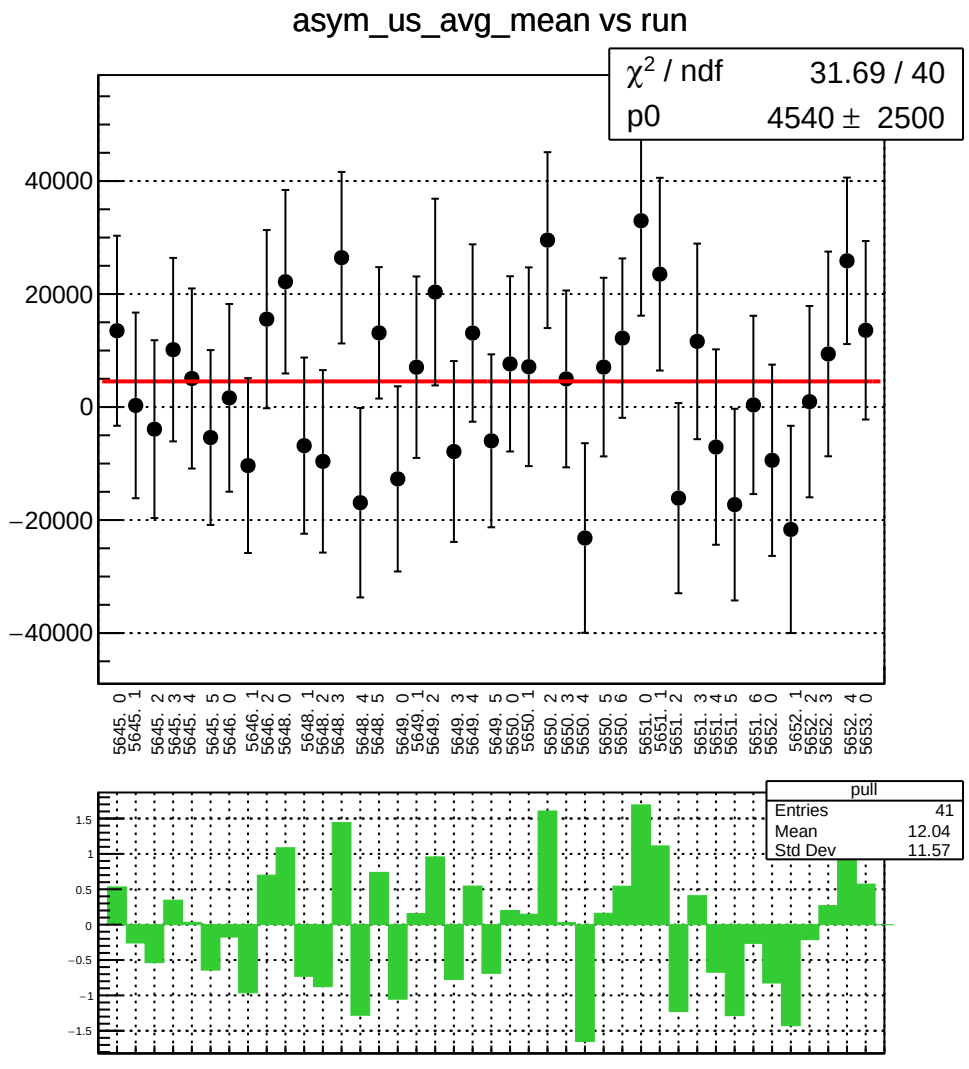

pull1D
Entries 41
Mean −0.01012
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

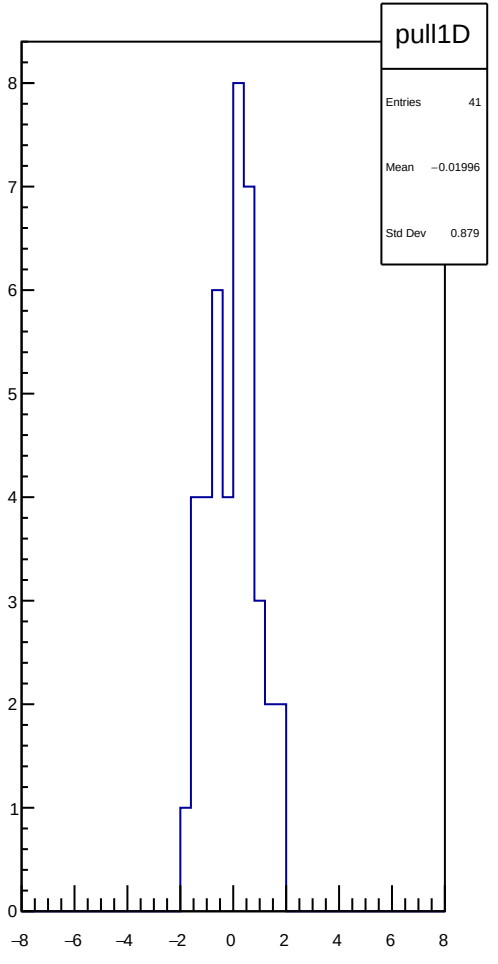

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 125.2 / 40
p0 764.2 ± 0.8597
810
800
790
780
770
760
750
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

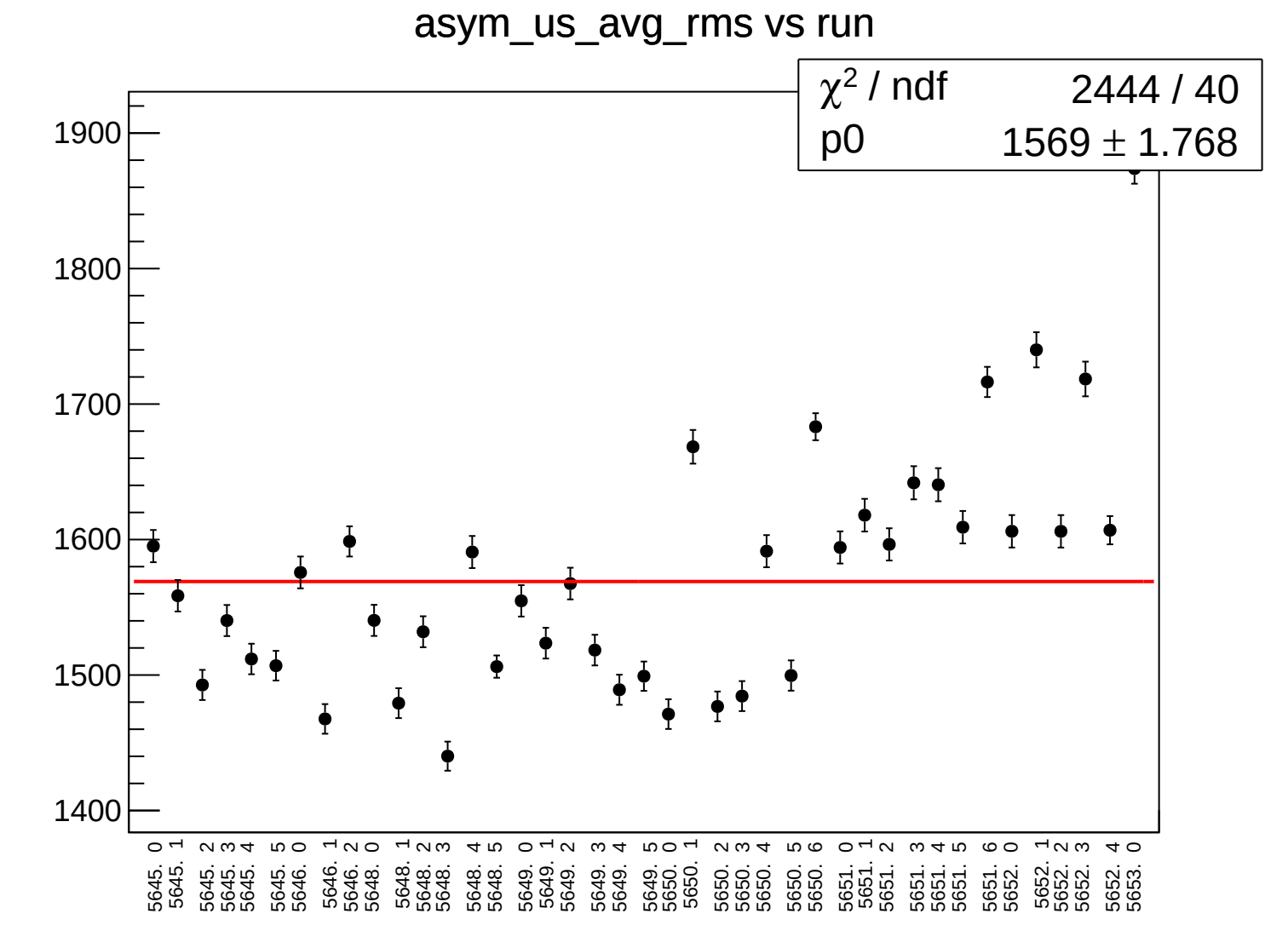

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.29 / 40
p0 −1990 ± 2188
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.39
Std Dev 29.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

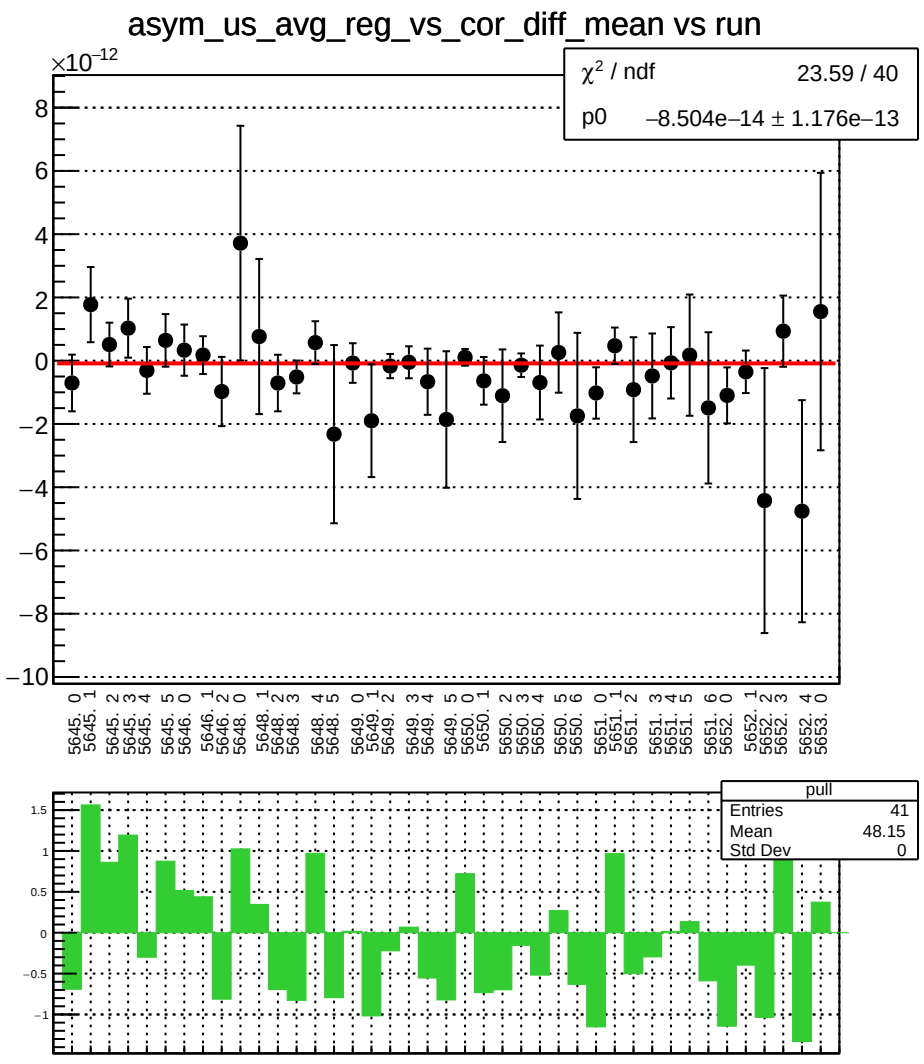

pull1D
Entries 41
Mean 0.0279
Std Dev 0.9909
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

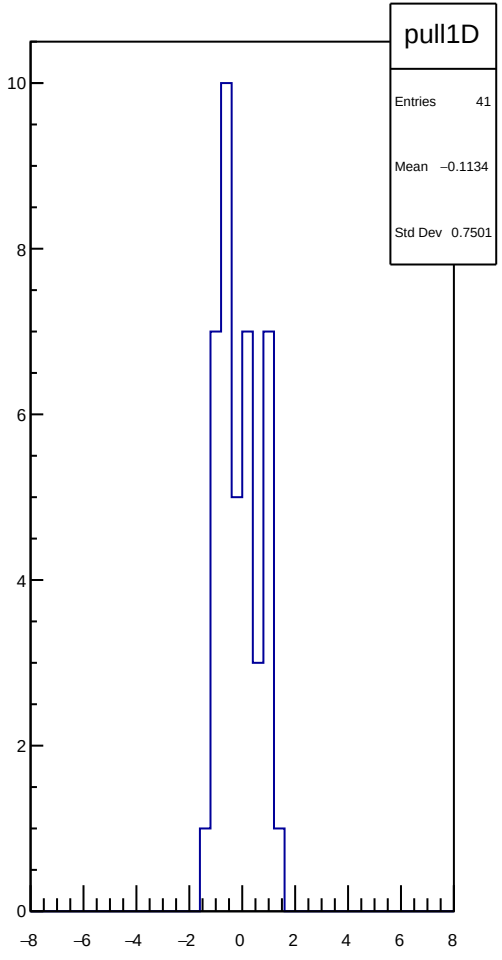

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4837 / 40
p0 1371 ± 1.547
1800
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

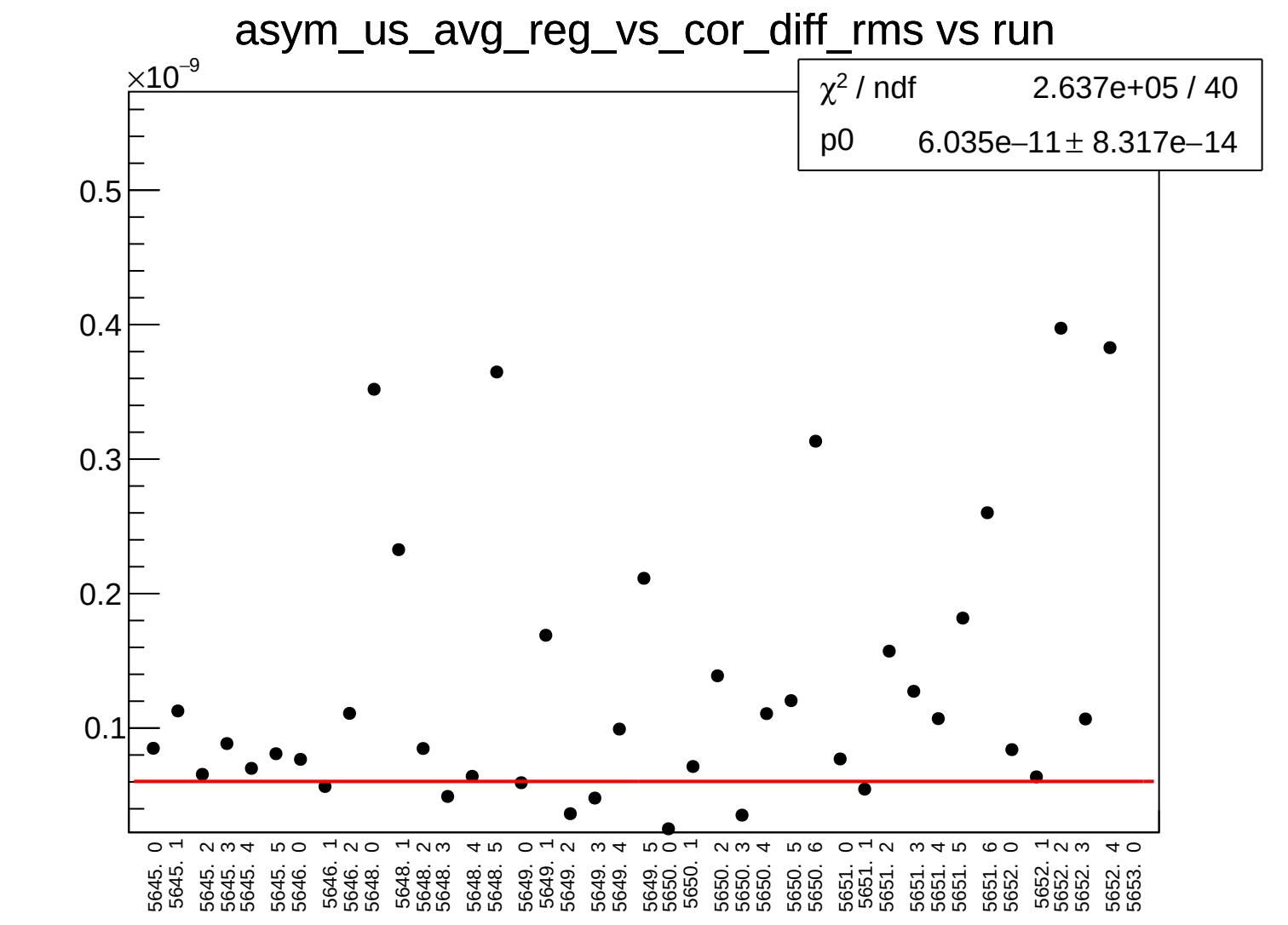

asym_us_avg_mean vs run
χ² / ndf 31.69 / 40
p0 4540 ± 2500
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.04
Std Dev 11.57
1.5
1
0.5
0
−0.5
−1
−1.5

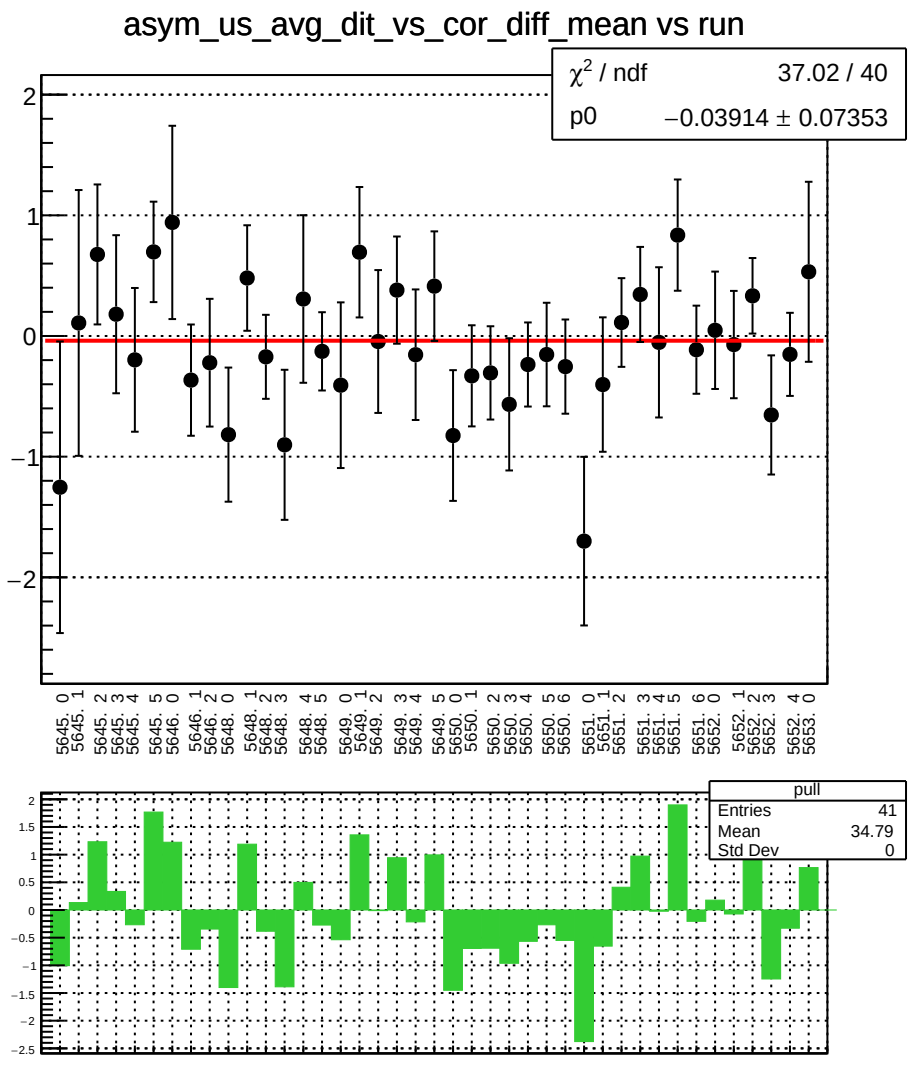

pull1D
Entries 41
Mean −0.01996
Std Dev 0.879
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

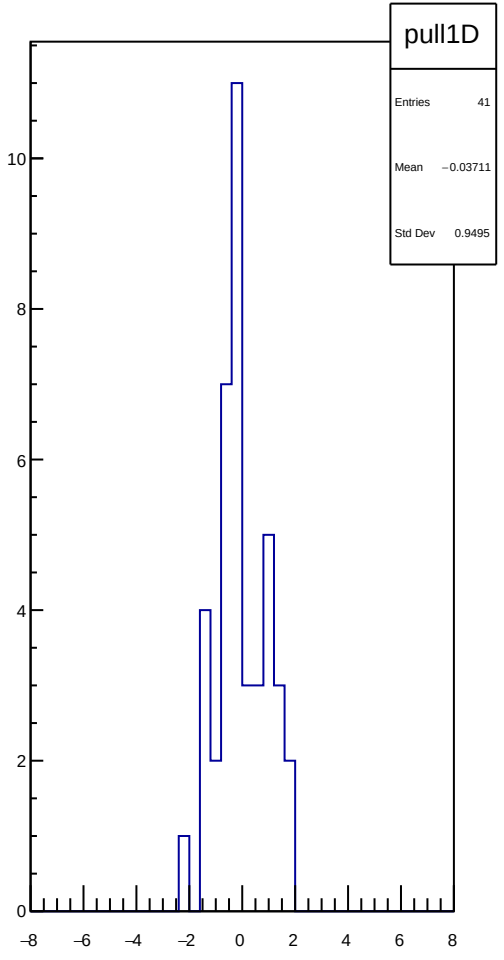

asym_us_avg_rms vs run
χ² / ndf 2444 / 40
p0 1569 ± 1.768
1900
1800
1700
1600
1500
1400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

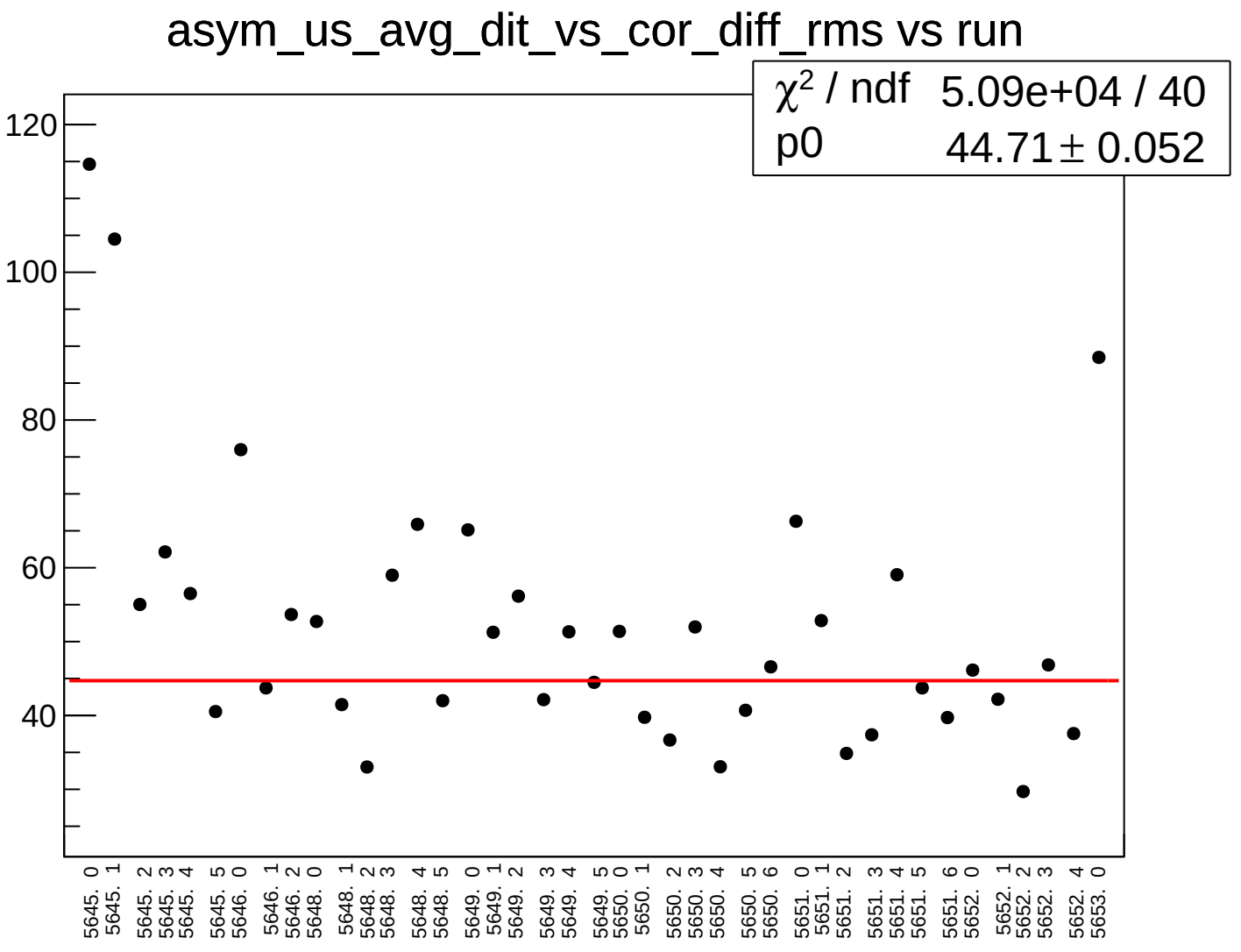

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 23.59 / 40
p0 −8.504e−14 ± 1.176e−13
pull
Entries 41
Mean 48.15
Std Dev 0

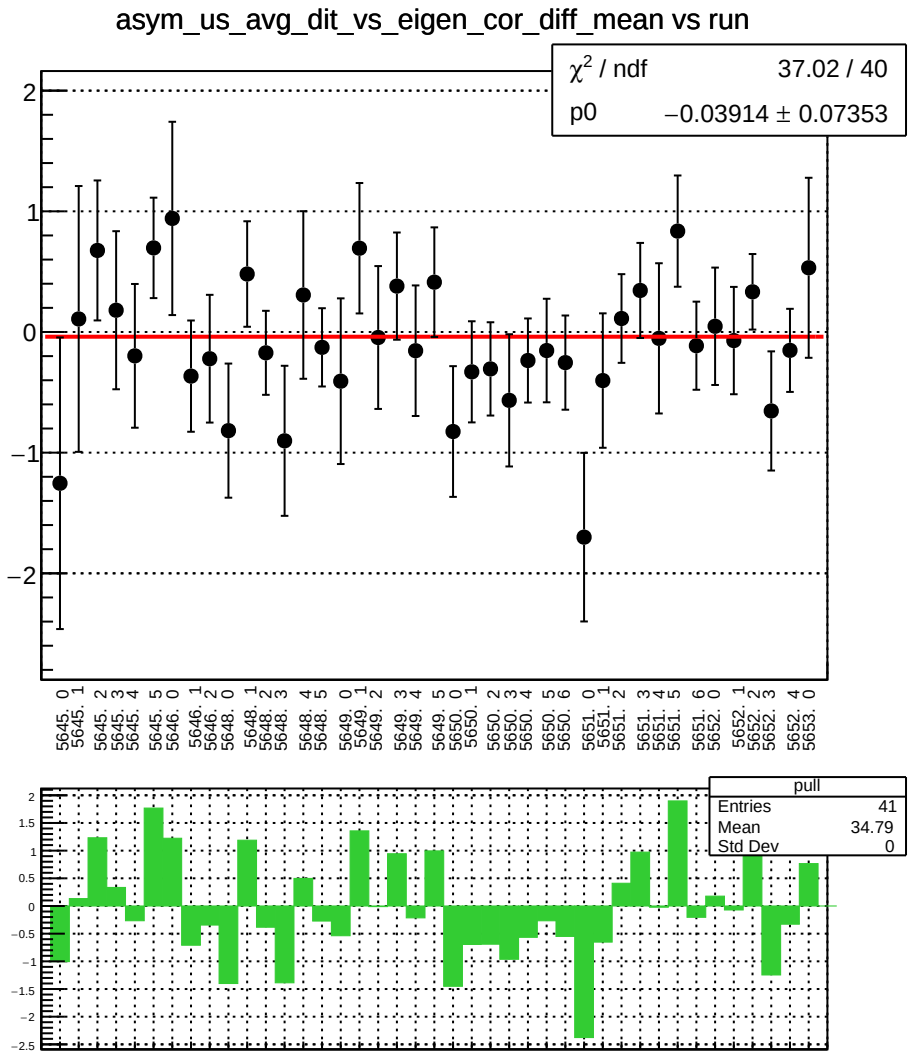

pull1D
Entries 41
Mean −0.1134
Std Dev 0.7501

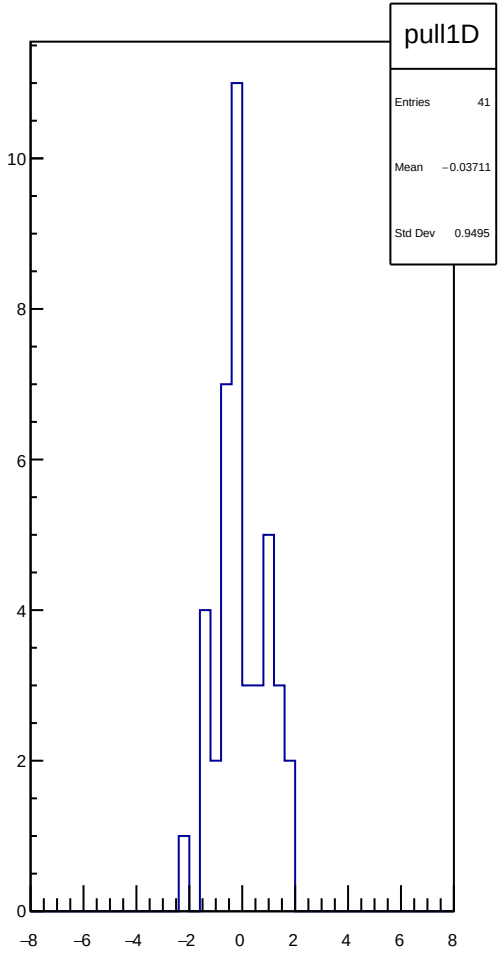

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.637e+05 / 40
p0 6.035e−11 ± 8.317e−14
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

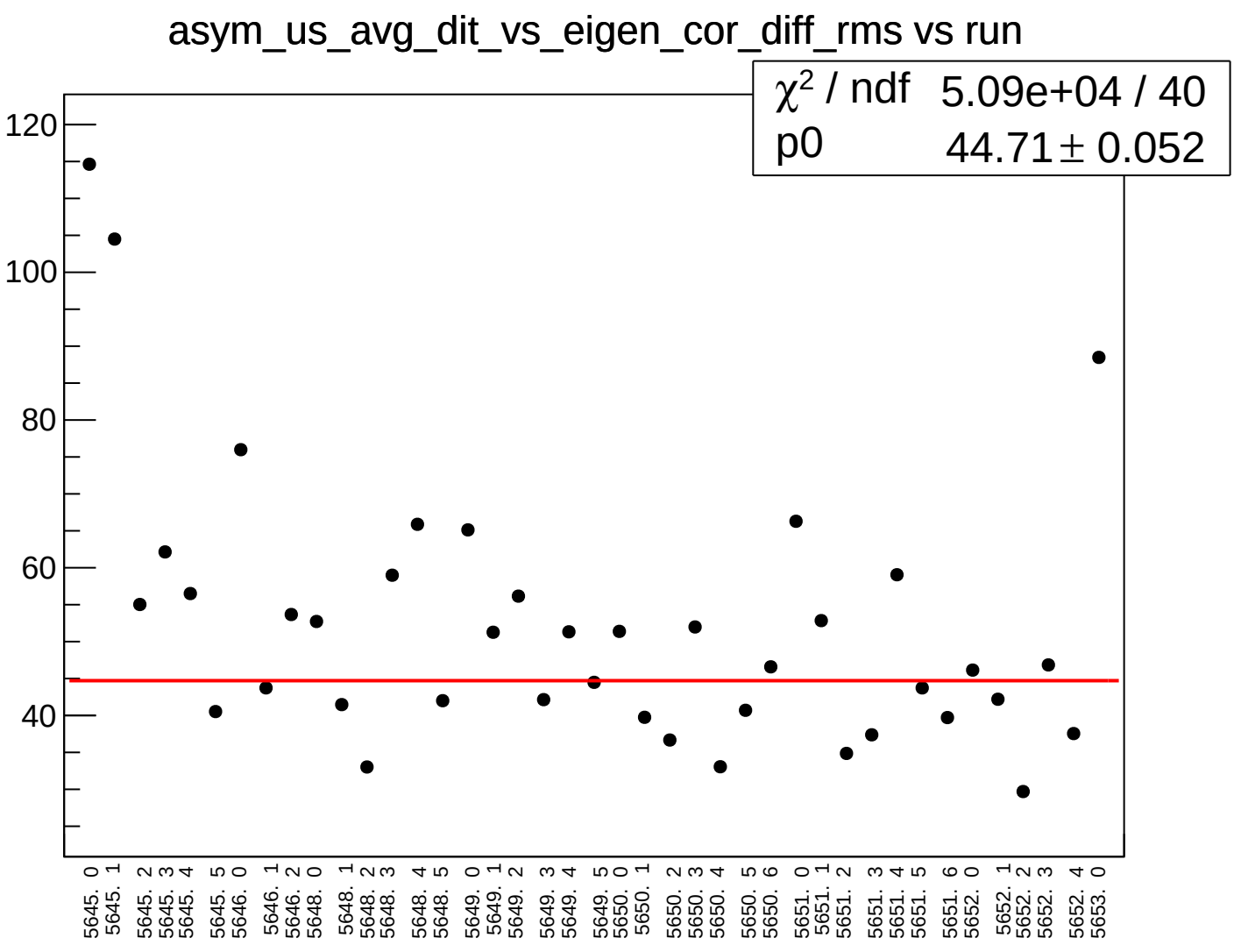

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 40
p0 −0.03914 ± 0.07353
pull
Entries 41
Mean 34.79
Std Dev 0


pull1D
Entries 41
Mean −0.03711
Std Dev 0.9495


asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.09e+04 / 40
p0 44.71 ± 0.052
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 40
p0 −0.03914 ± 0.07353
pull
Entries 41
Mean 34.79
Std Dev 0


pull1D
Entries 41
Mean −0.03711
Std Dev 0.9495


asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.09e+04 / 40
p0 44.71 ± 0.052
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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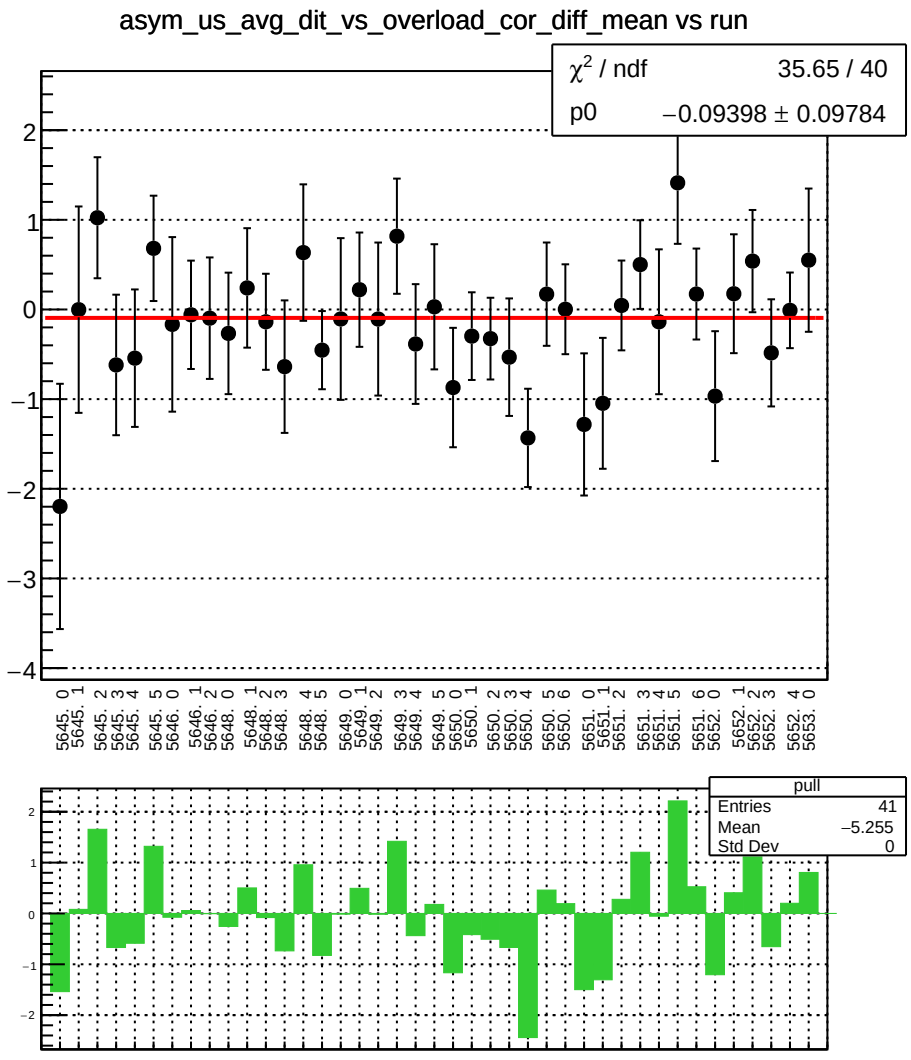
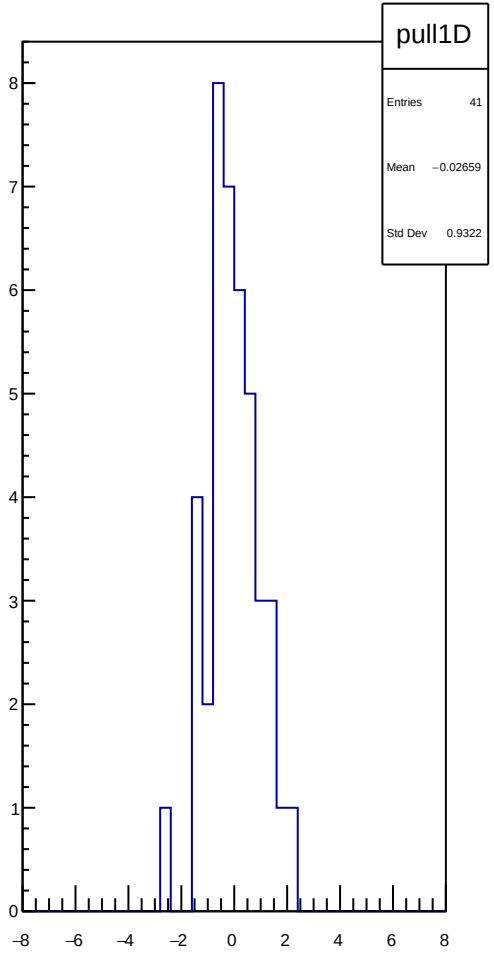
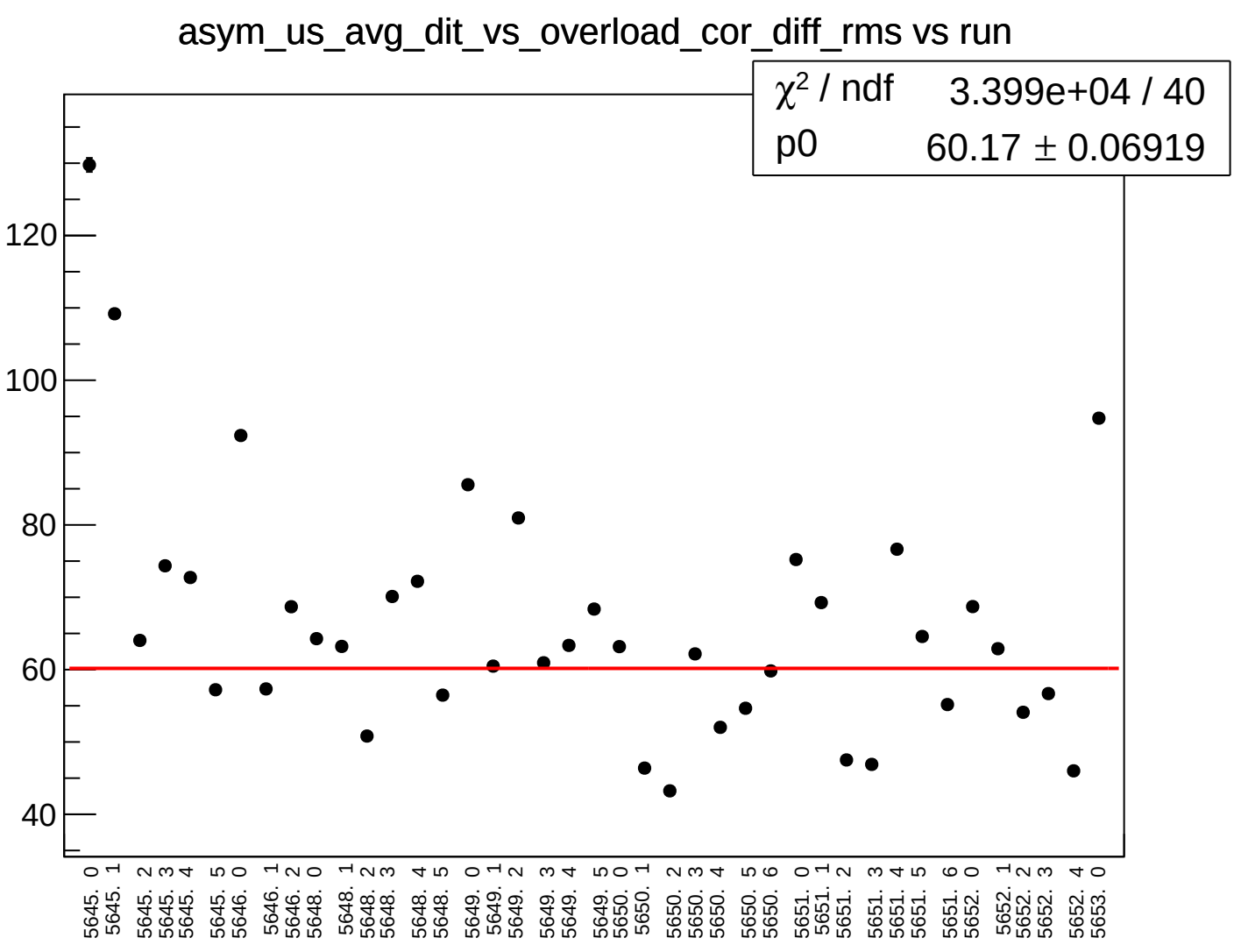
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 35.65 / 40
p0 −0.09398 ± 0.09784
pull
Entries 41
Mean −5.255
Std Dev 0


pull1D
Entries 41
Mean −0.02659
Std Dev 0.9322


asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.399e+04 / 40
p0 60.17 ± 0.06919
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
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5651. 2
5651. 3
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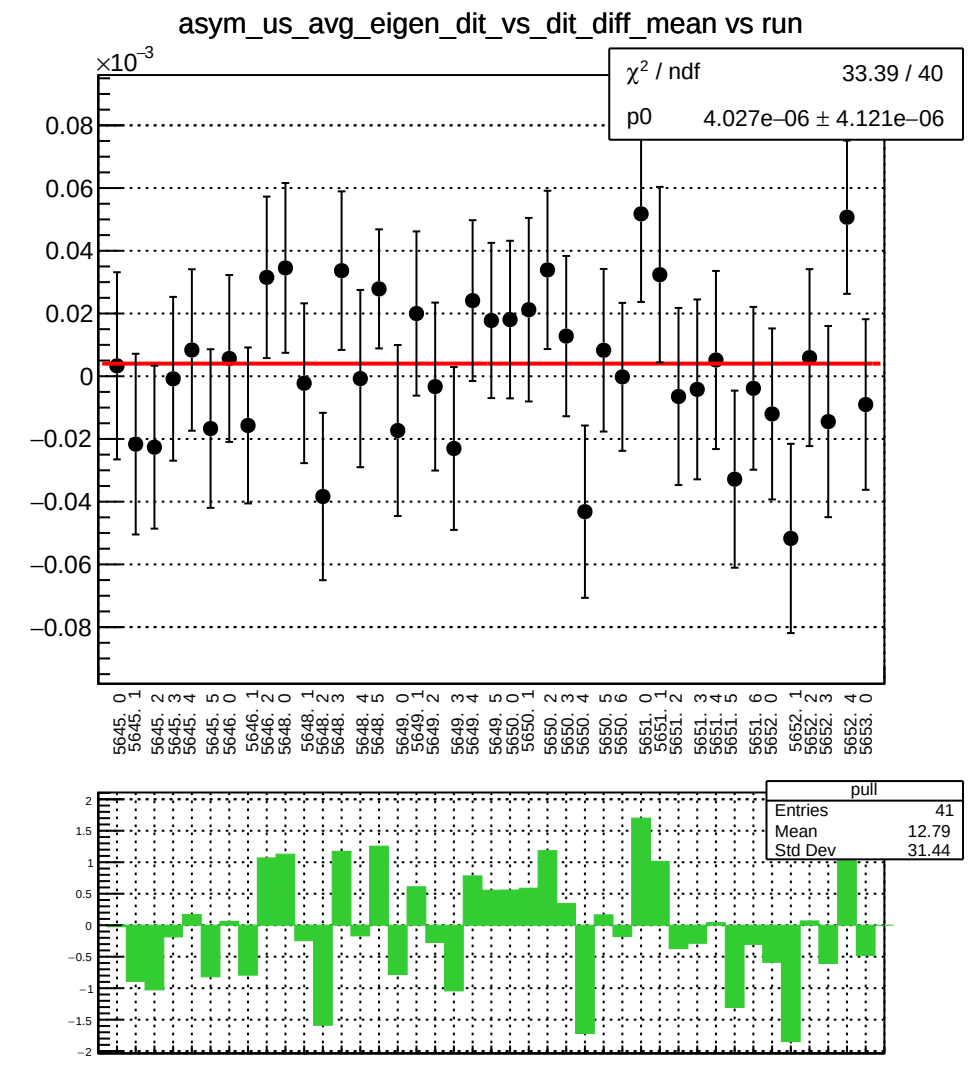
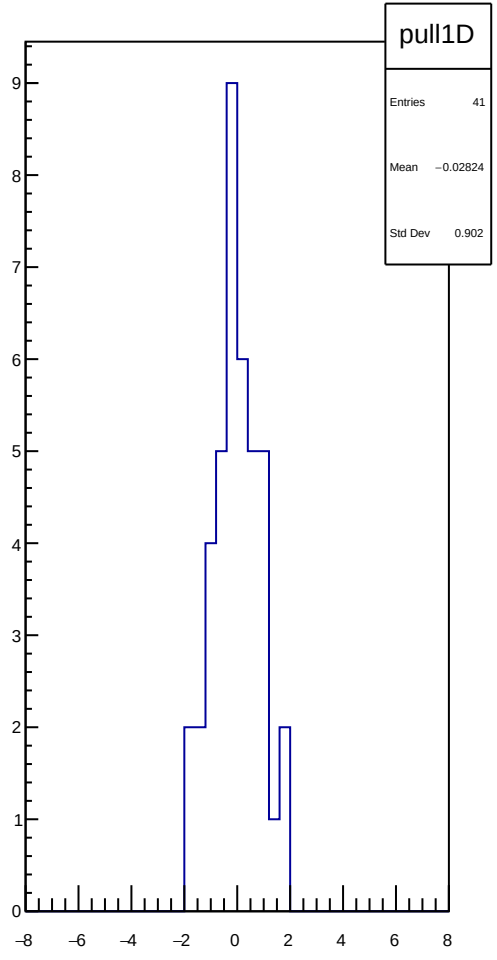
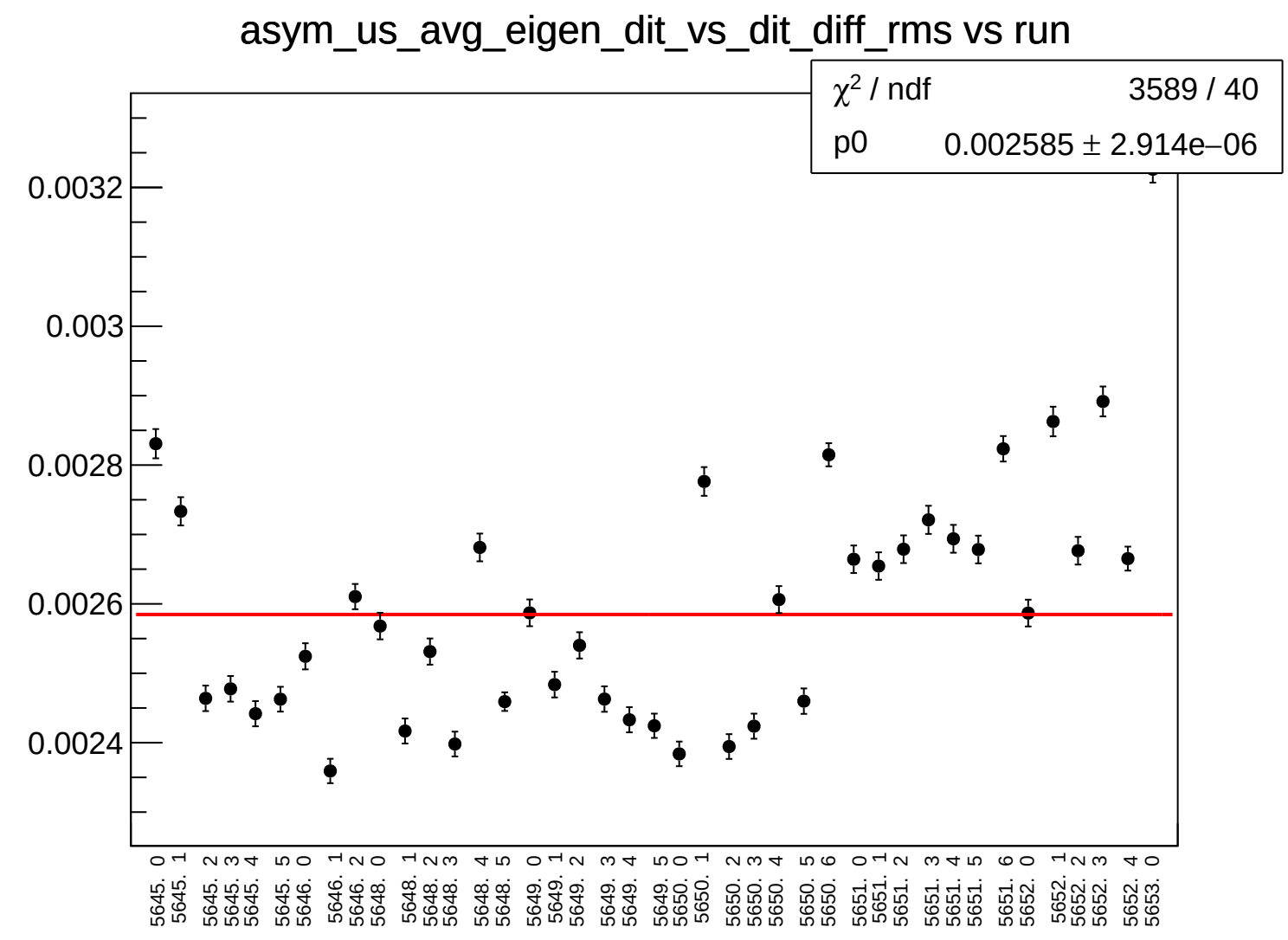
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.39 / 40
p0 4.027e−06 ± 4.121e−06
pull
Entries 41
Mean 12.79
Std Dev 31.44


pull1D
Entries 41
Mean −0.02824
Std Dev 0.902


asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3589 / 40
p0 0.002585 ± 2.914e−06
0.0032
0.003
0.0028
0.0026
0.0024
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
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5651. 5
5651. 6
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5652. 2
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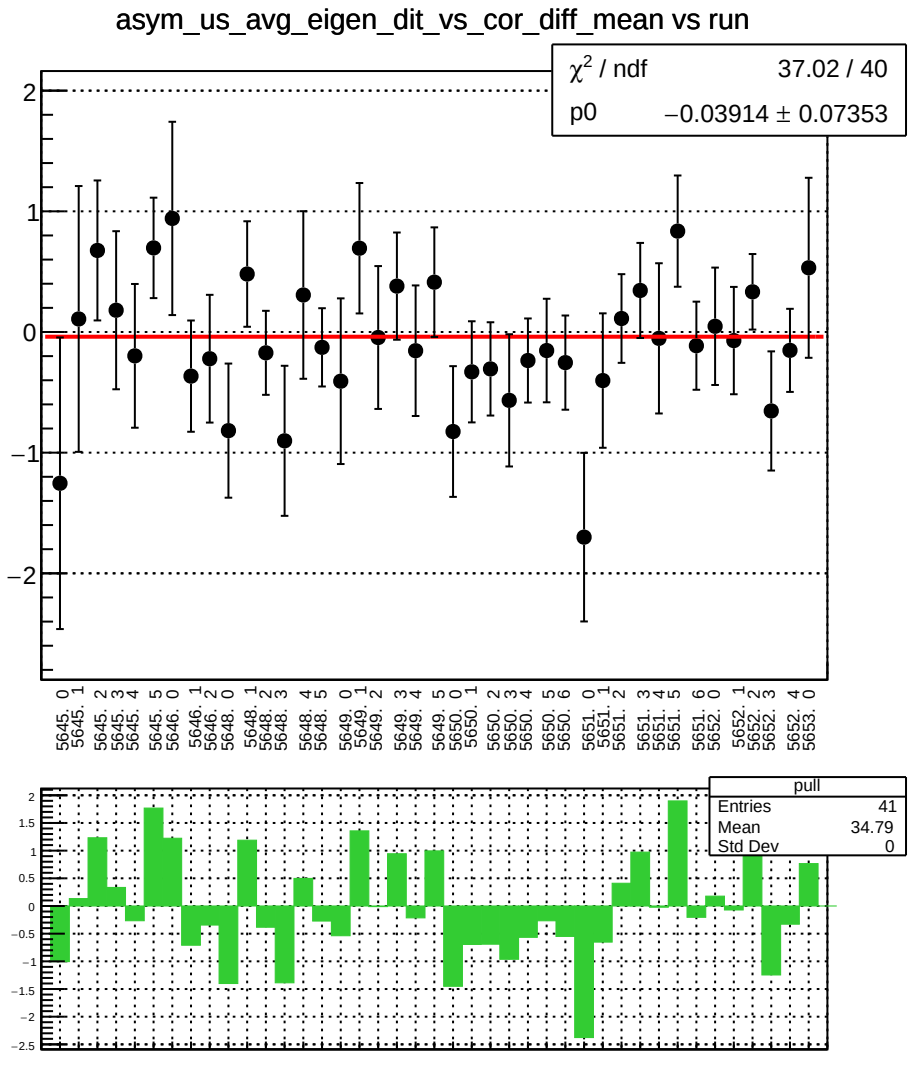
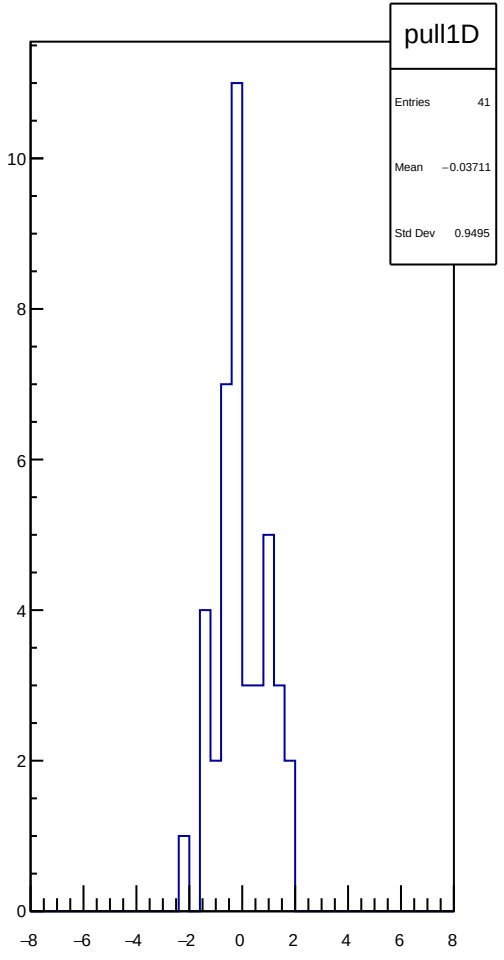
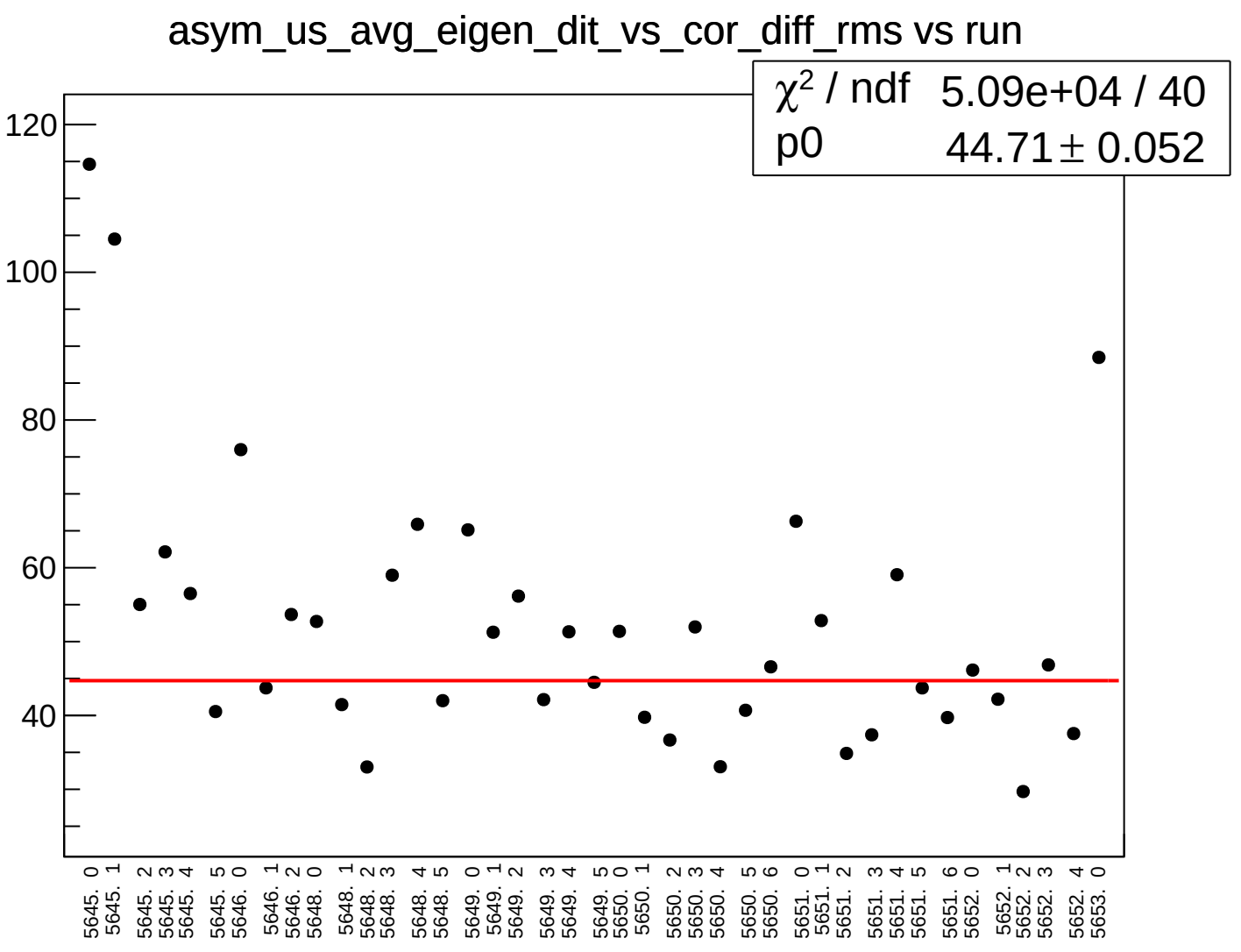
5652. 4
5653. 0


asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.02 / 40
p0 −0.03914 ± 0.07353
pull
Entries 41
Mean 34.79
Std Dev 0


pull1D
Entries 41
Mean −0.03711
Std Dev 0.9495


asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.09e+04 / 40
p0 44.71 ± 0.052
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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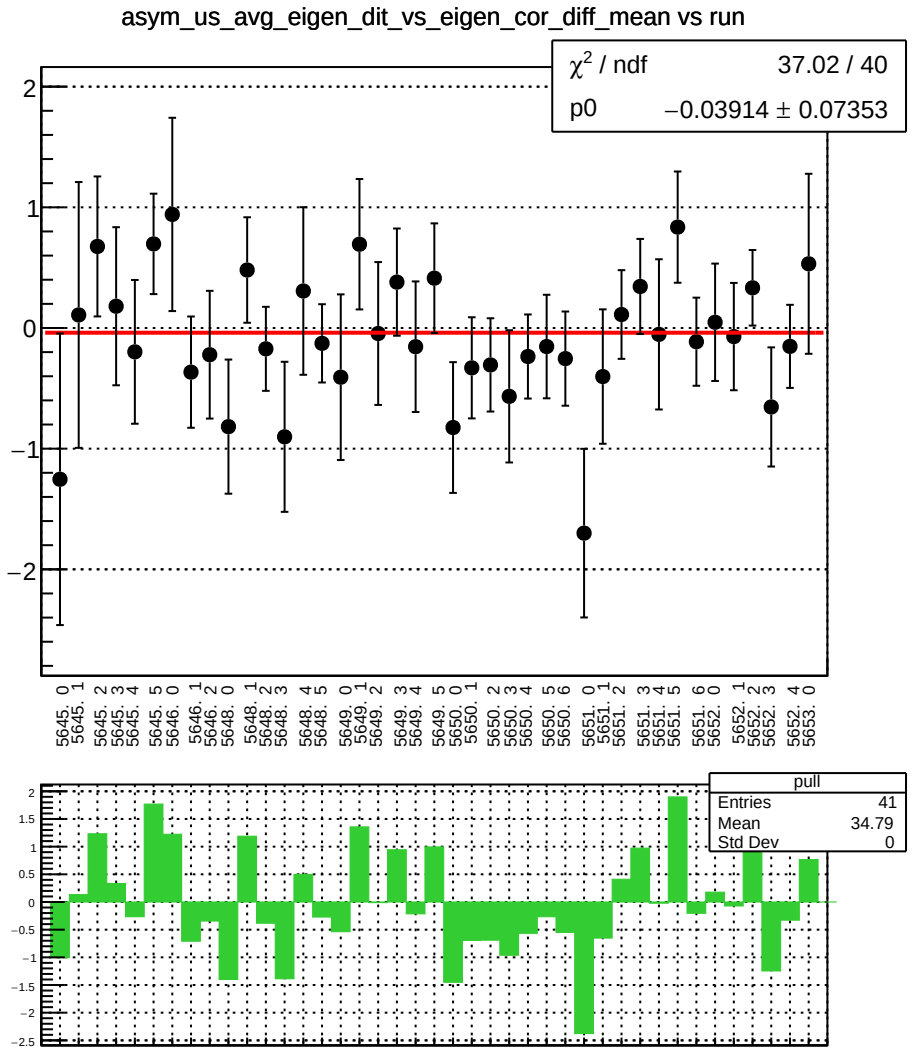
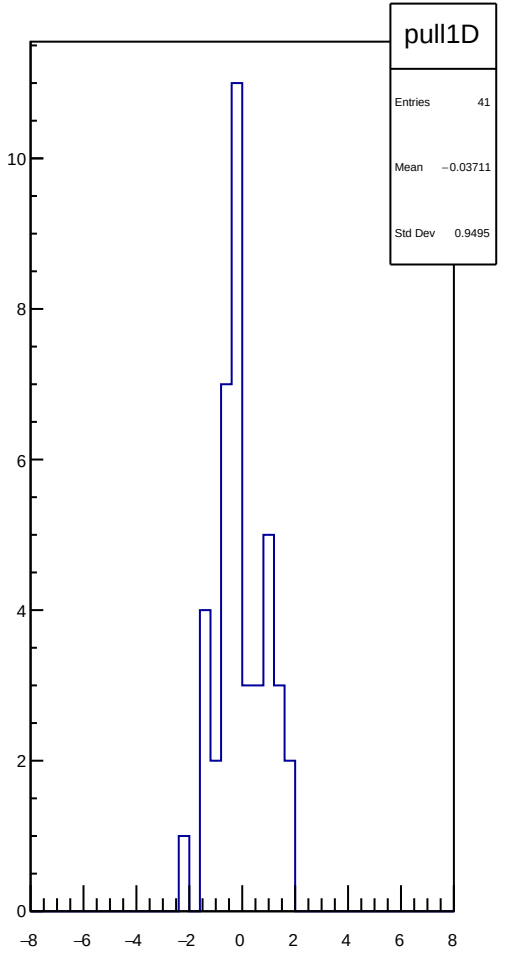
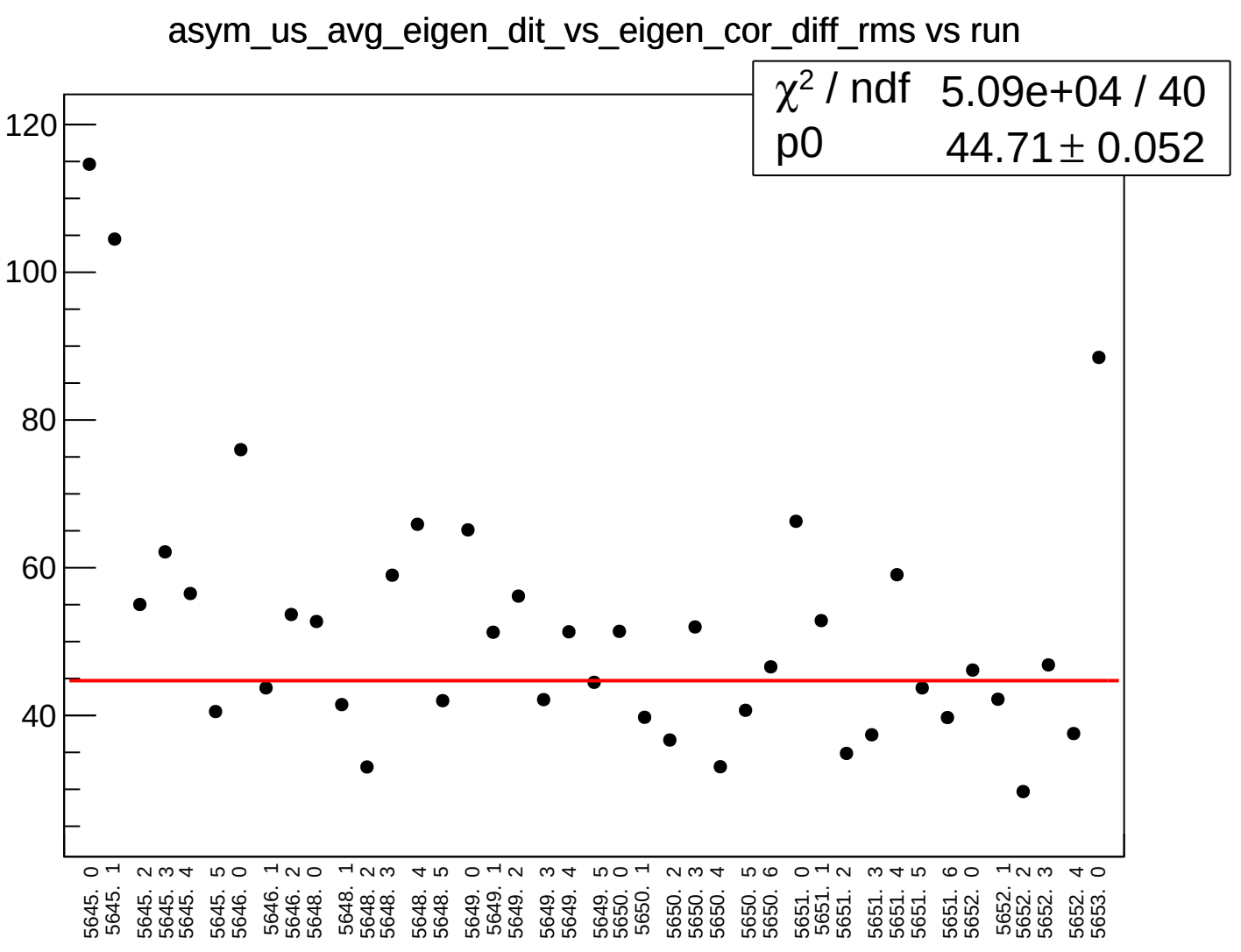
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.02 / 40
p0 −0.03914 ± 0.07353
pull
Entries 41
Mean 34.79
Std Dev 0


pull1D
Entries 41
Mean −0.03711
Std Dev 0.9495


asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.09e+04 / 40
p0 44.71 ± 0.052
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
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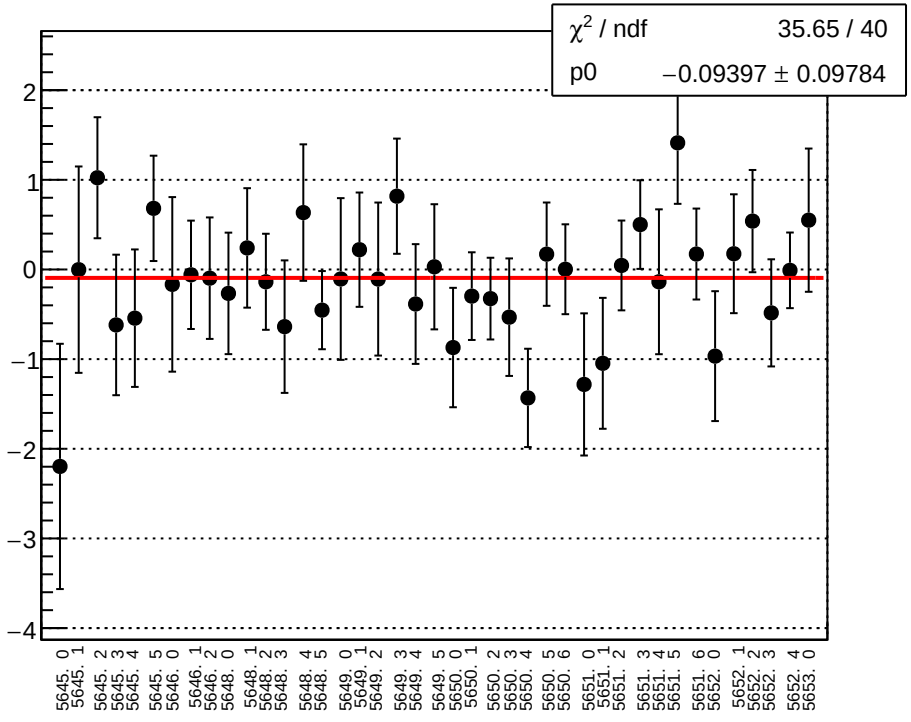
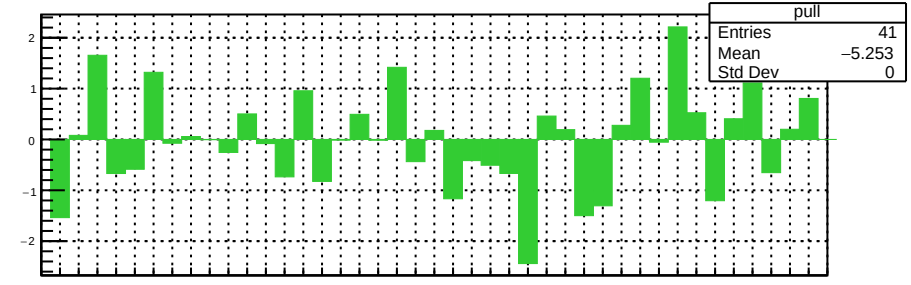
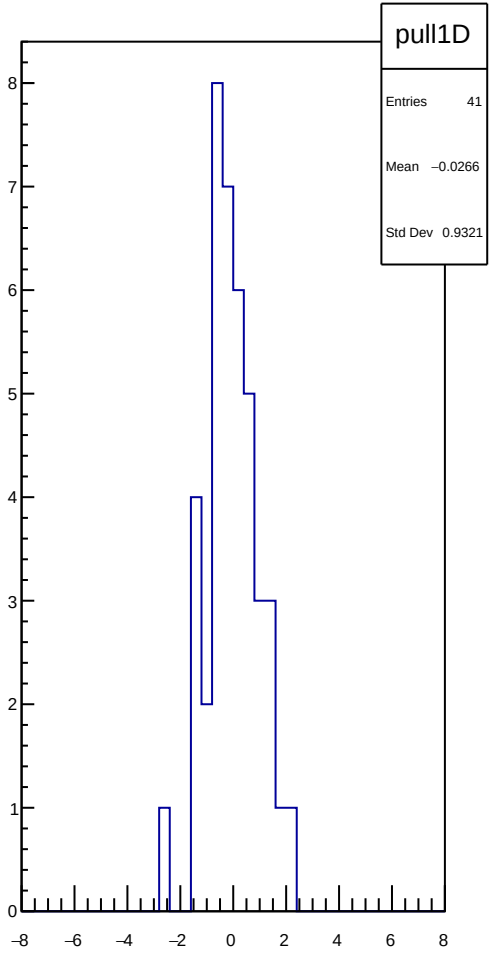
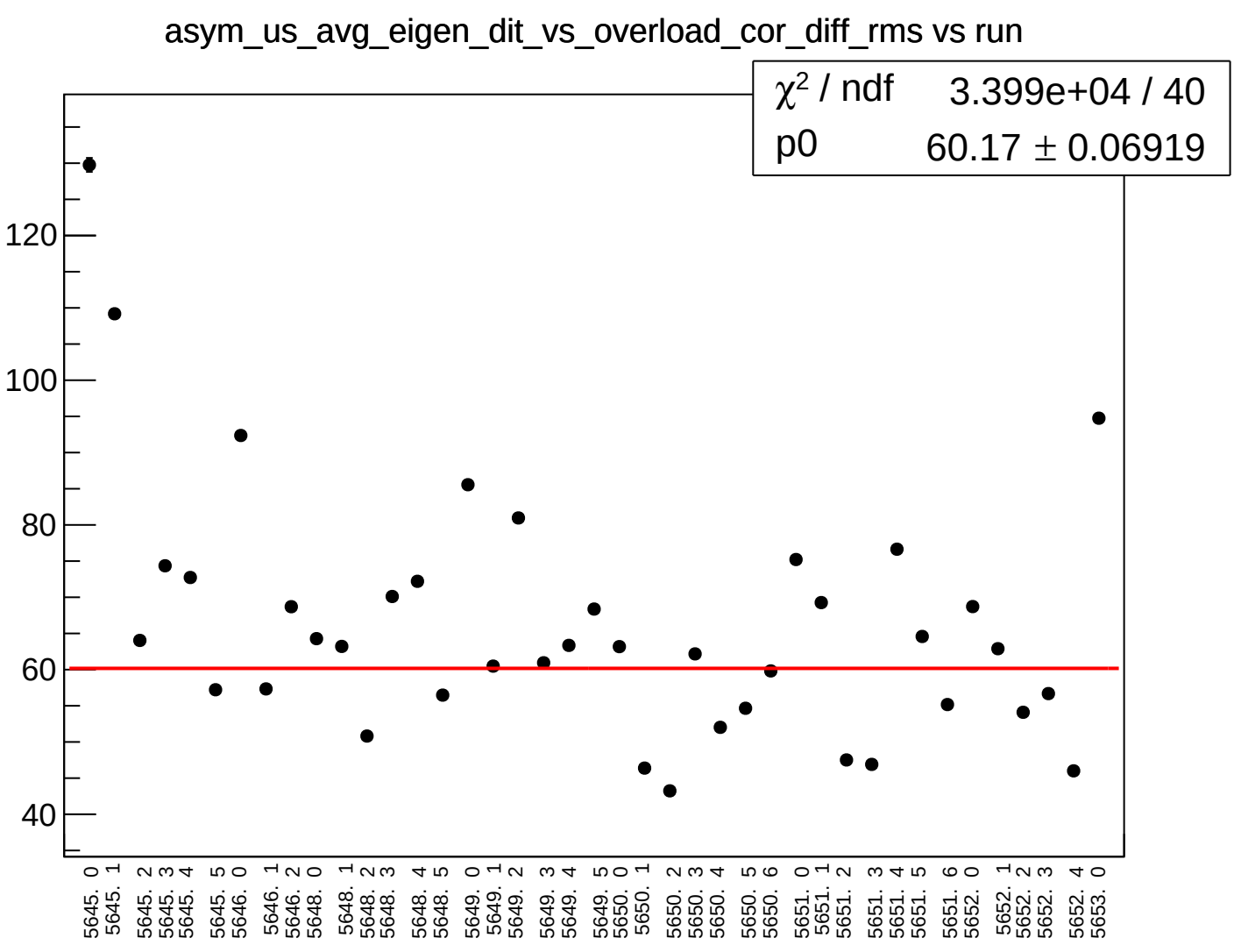
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

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 3.399e+04 / 40
p0 60.17 ± 0.06919
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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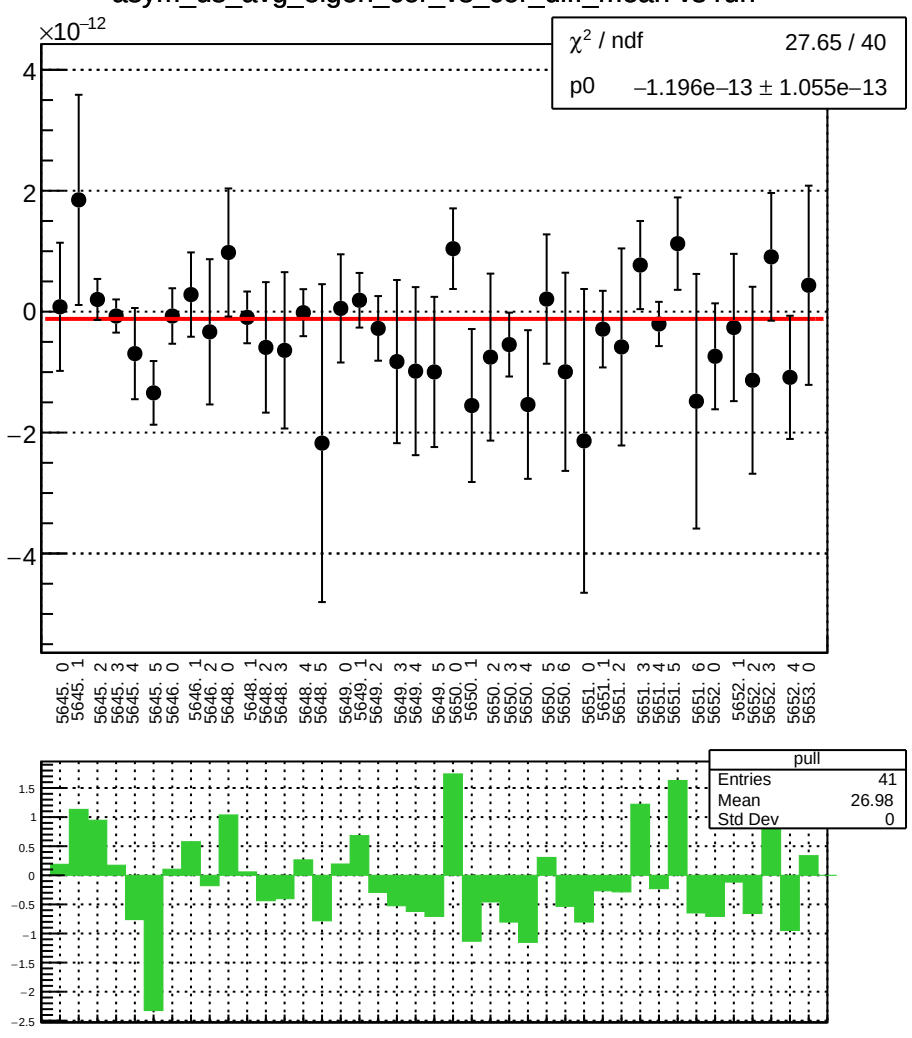
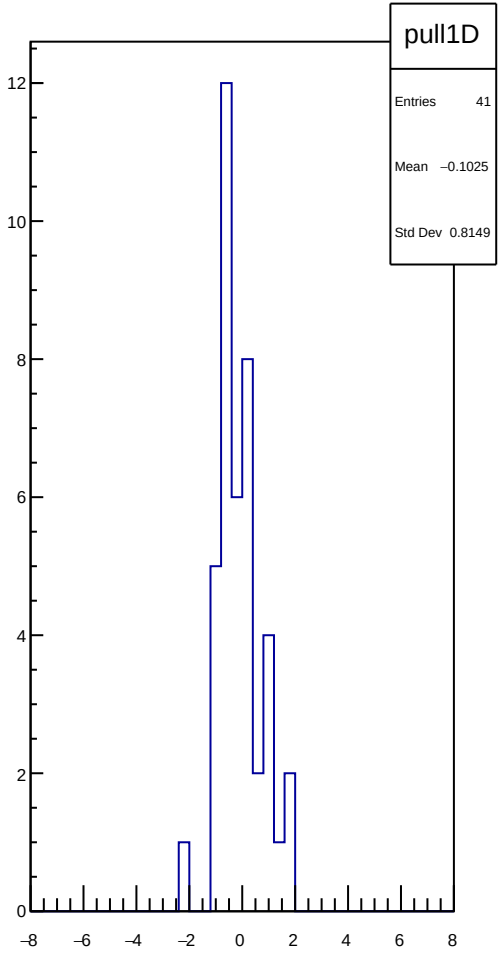
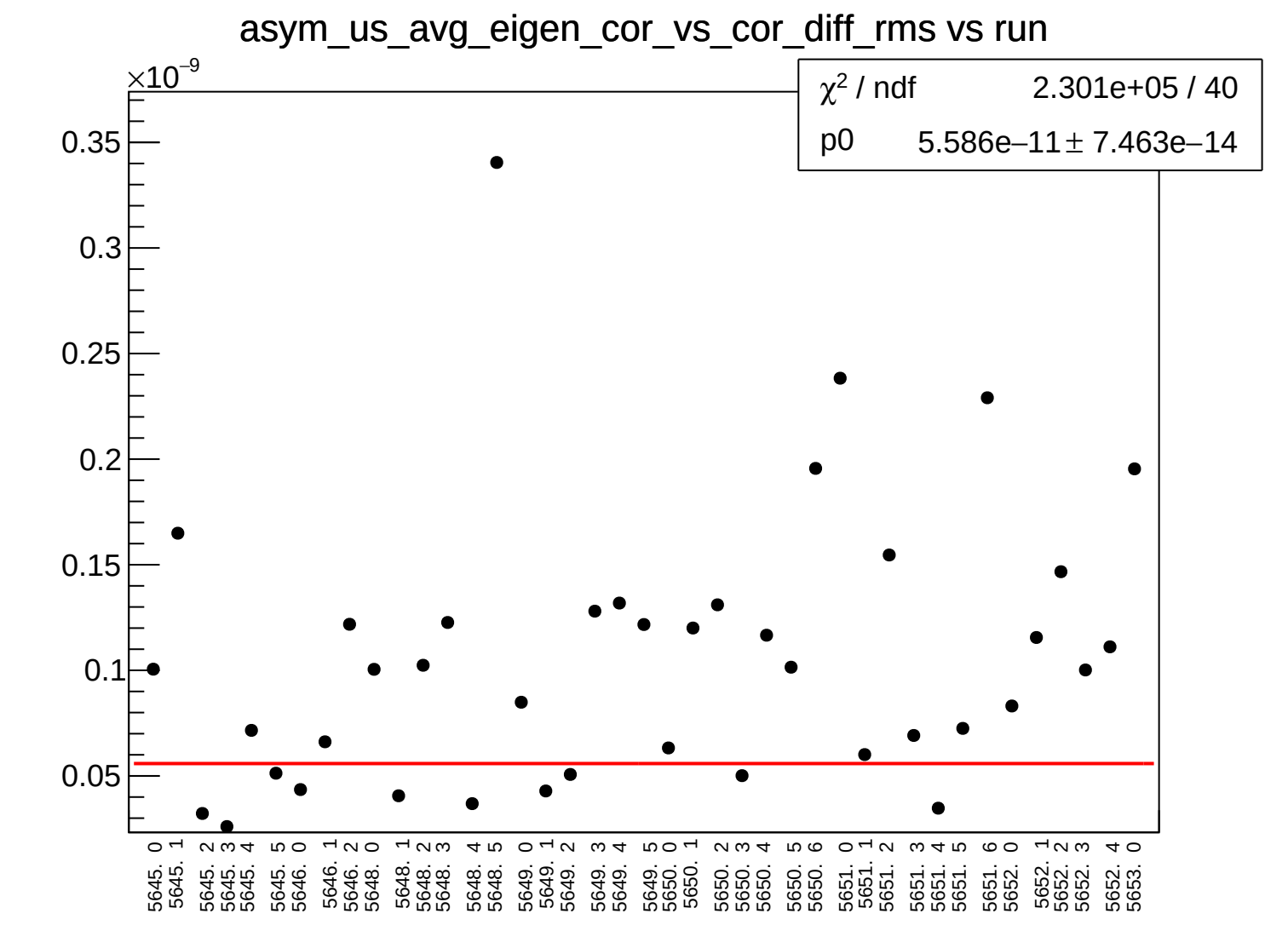
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.65 / 40
p0 −1.196e−13 ± 1.055e−13
pull
Entries 41
Mean 26.98
Std Dev 0


pull1D
Entries 41
Mean −0.1025
Std Dev 0.8149


asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.301e+05 / 40
p0 5.586e−11 ± 7.463e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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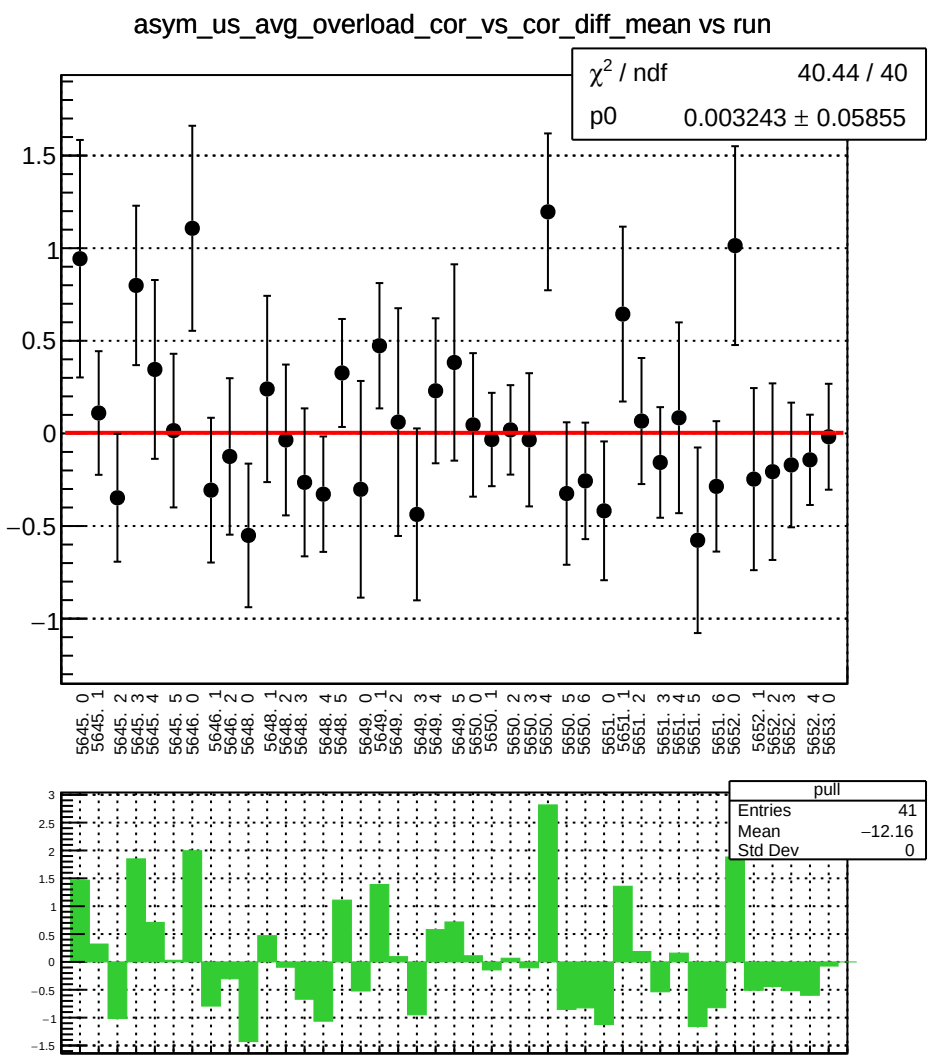
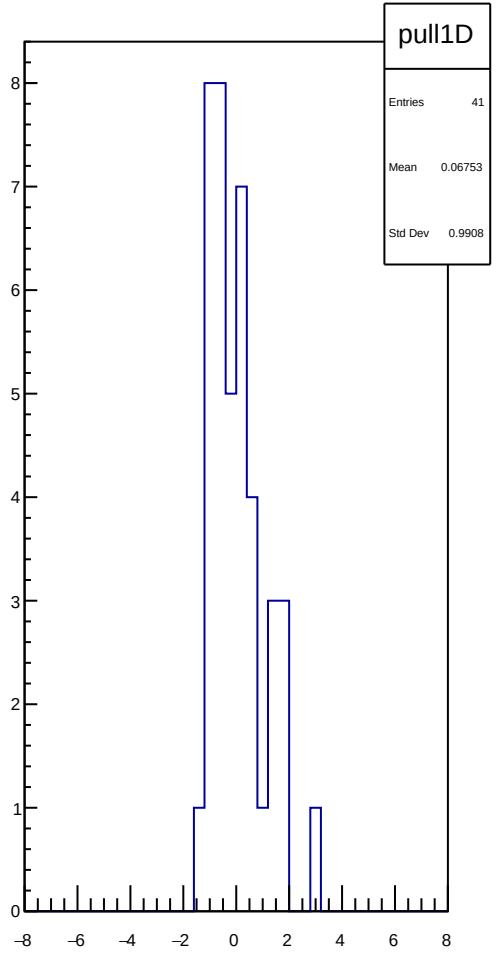
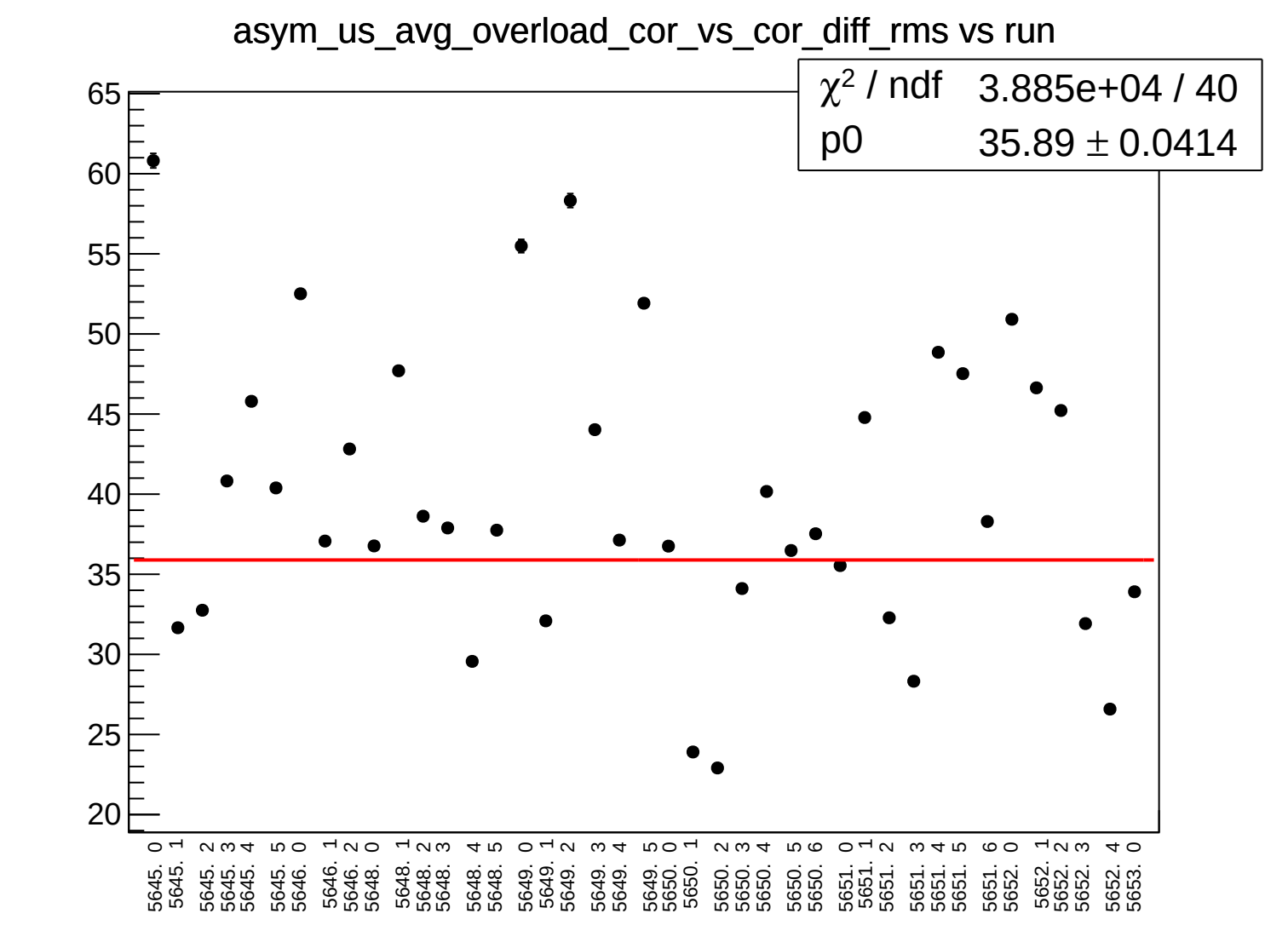
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 40.44 / 40
p0 0.003243 ± 0.05855
pull
Entries 41
Mean −12.16
Std Dev 0


pull1D
Entries 41
Mean 0.06753
Std Dev 0.9908


asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 40
p0 35.89 ± 0.0414
65
60
55
50
45
40
35
30
25
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
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5649. 0
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5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
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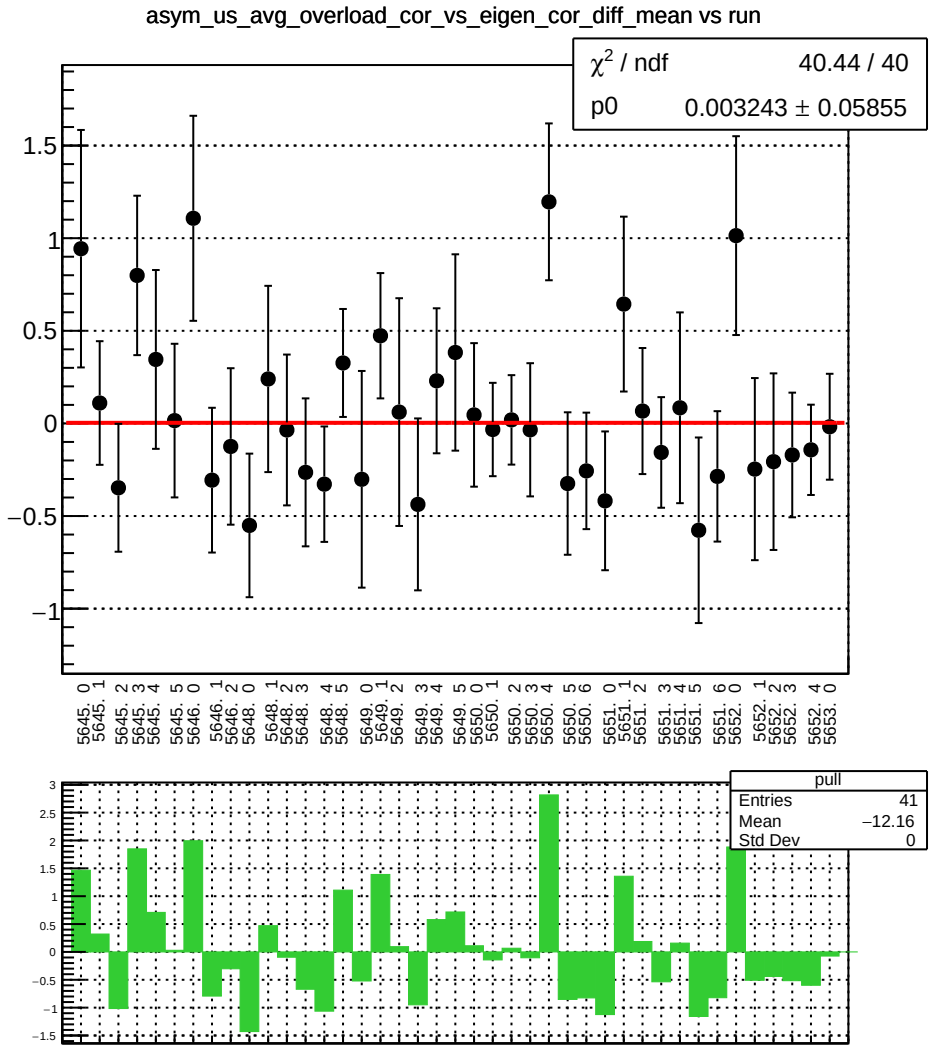
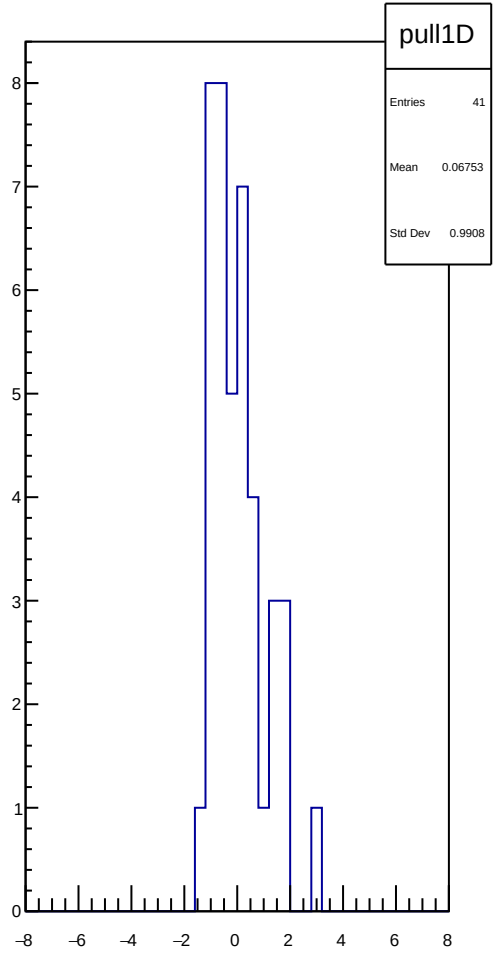
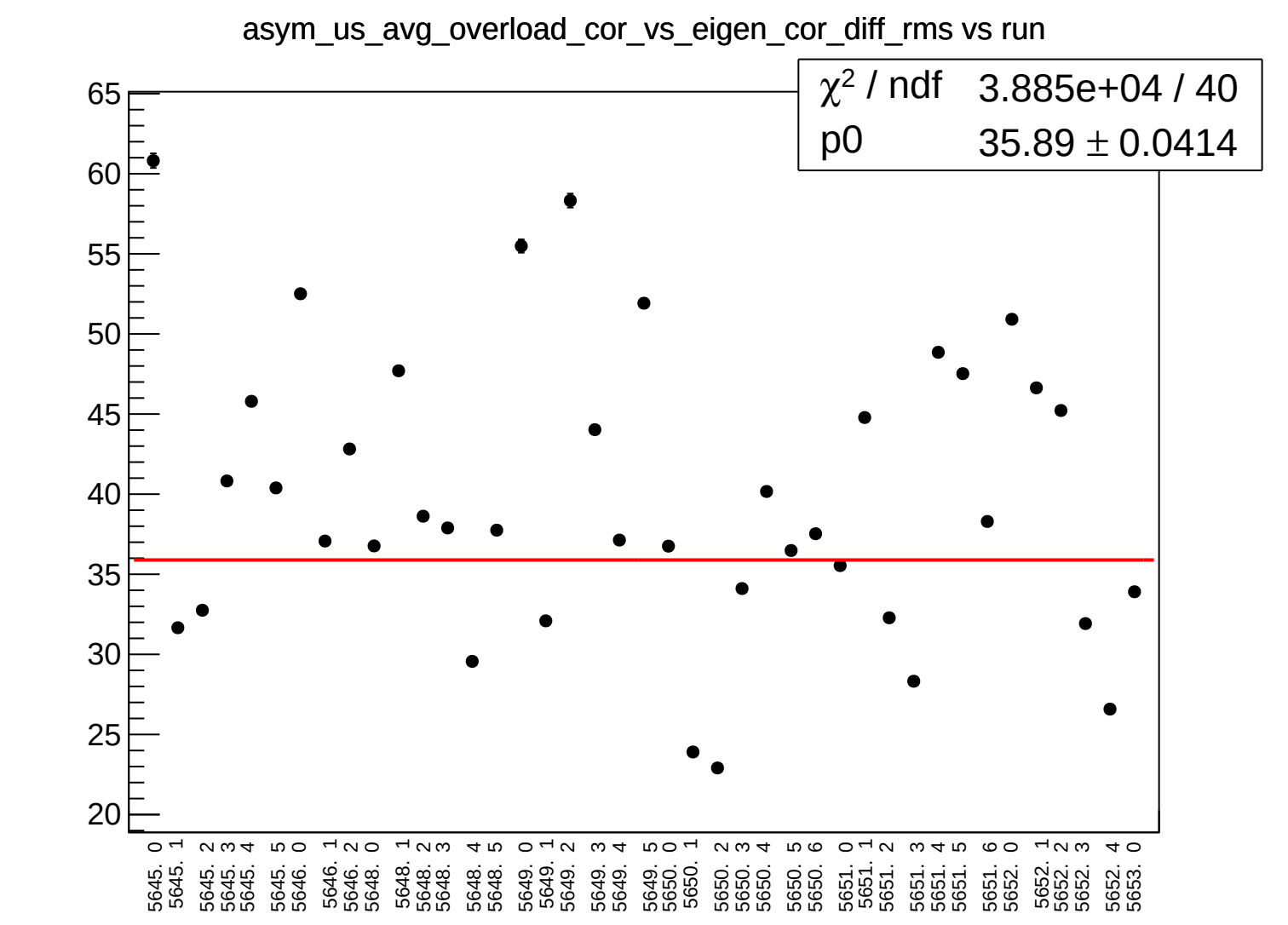
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.44 / 40
p0 0.003243 ± 0.05855
pull
Entries 41
Mean −12.16
Std Dev 0


pull1D
Entries 41
Mean 0.06753
Std Dev 0.9908


asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.885e+04 / 40
p0 35.89 ± 0.0414
65
60
55
50
45
40
35
30
25
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
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5649. 5
5650. 0
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5650. 3
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5650. 5
5650. 6
5651. 0
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5651. 5
5651. 6
5652. 0
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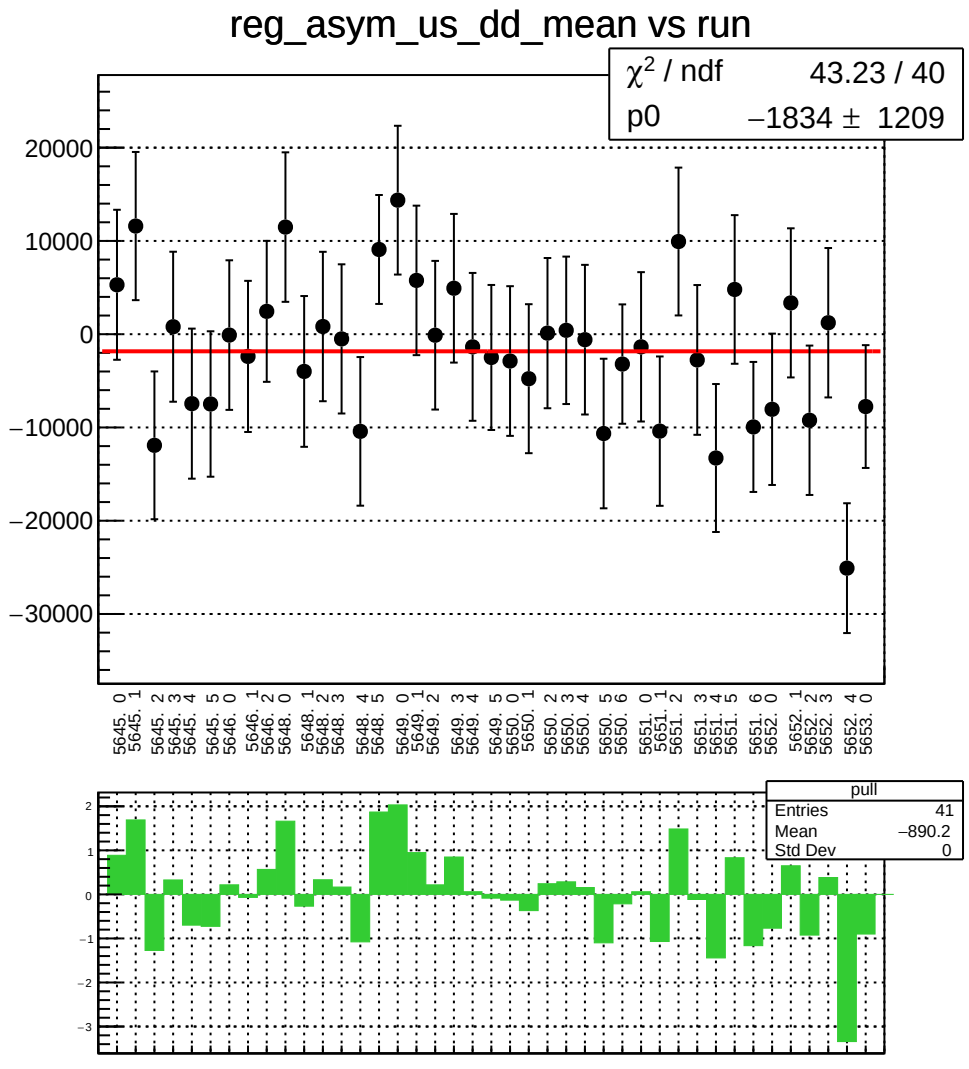
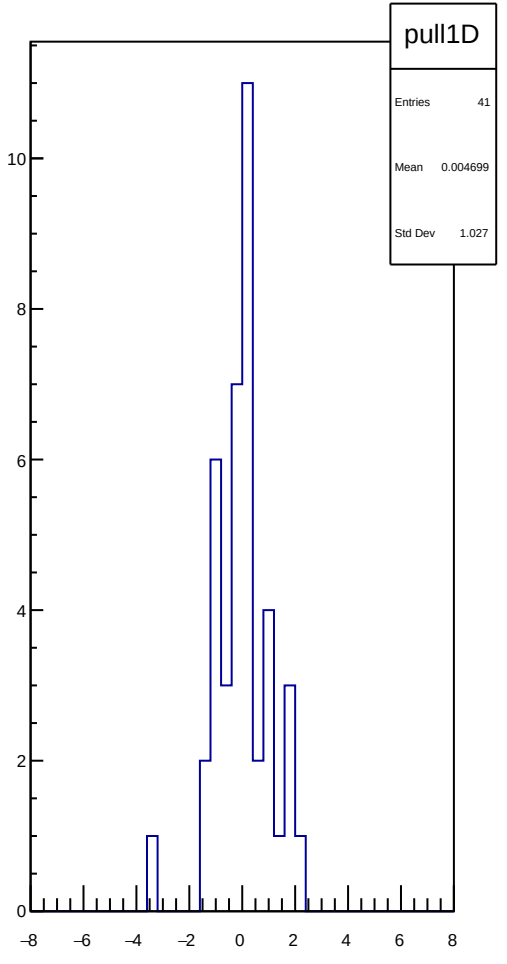
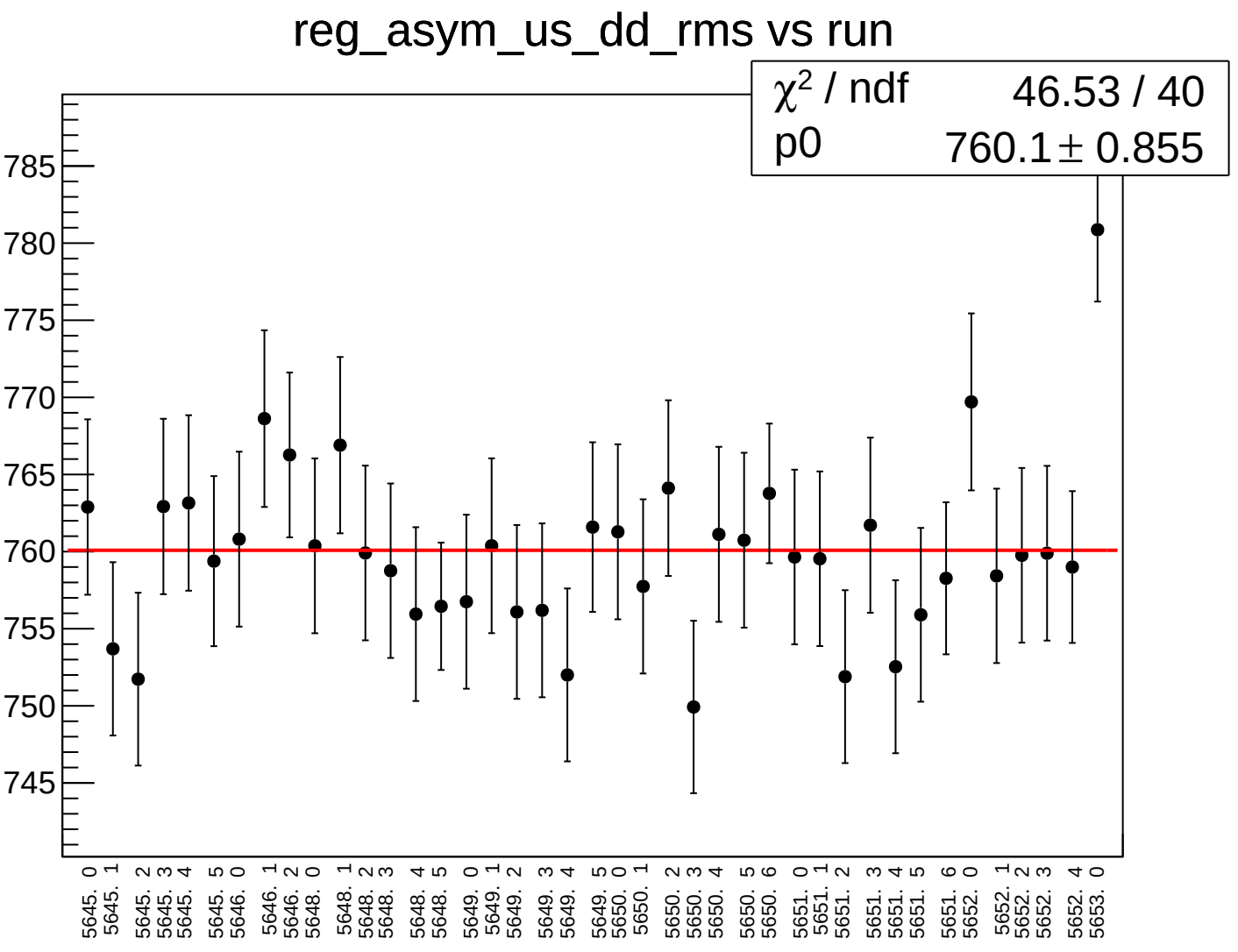
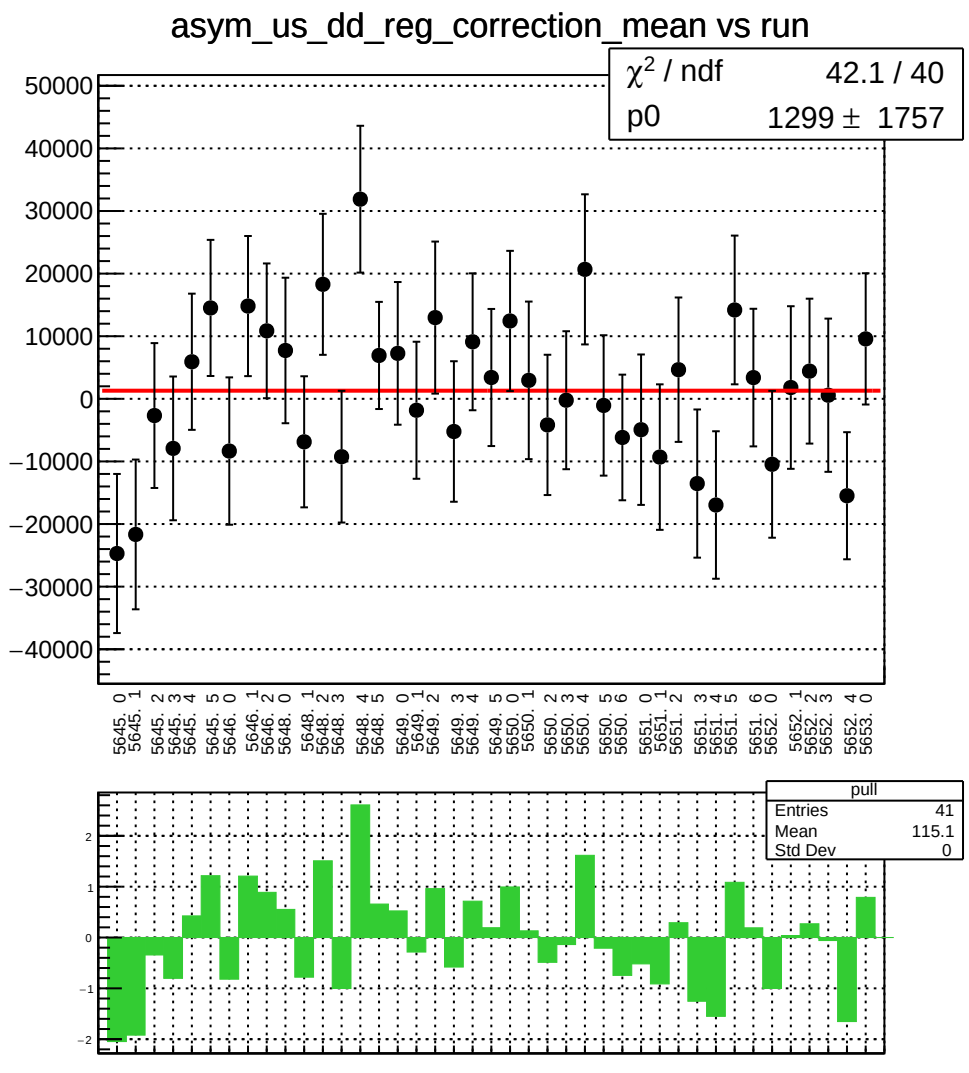
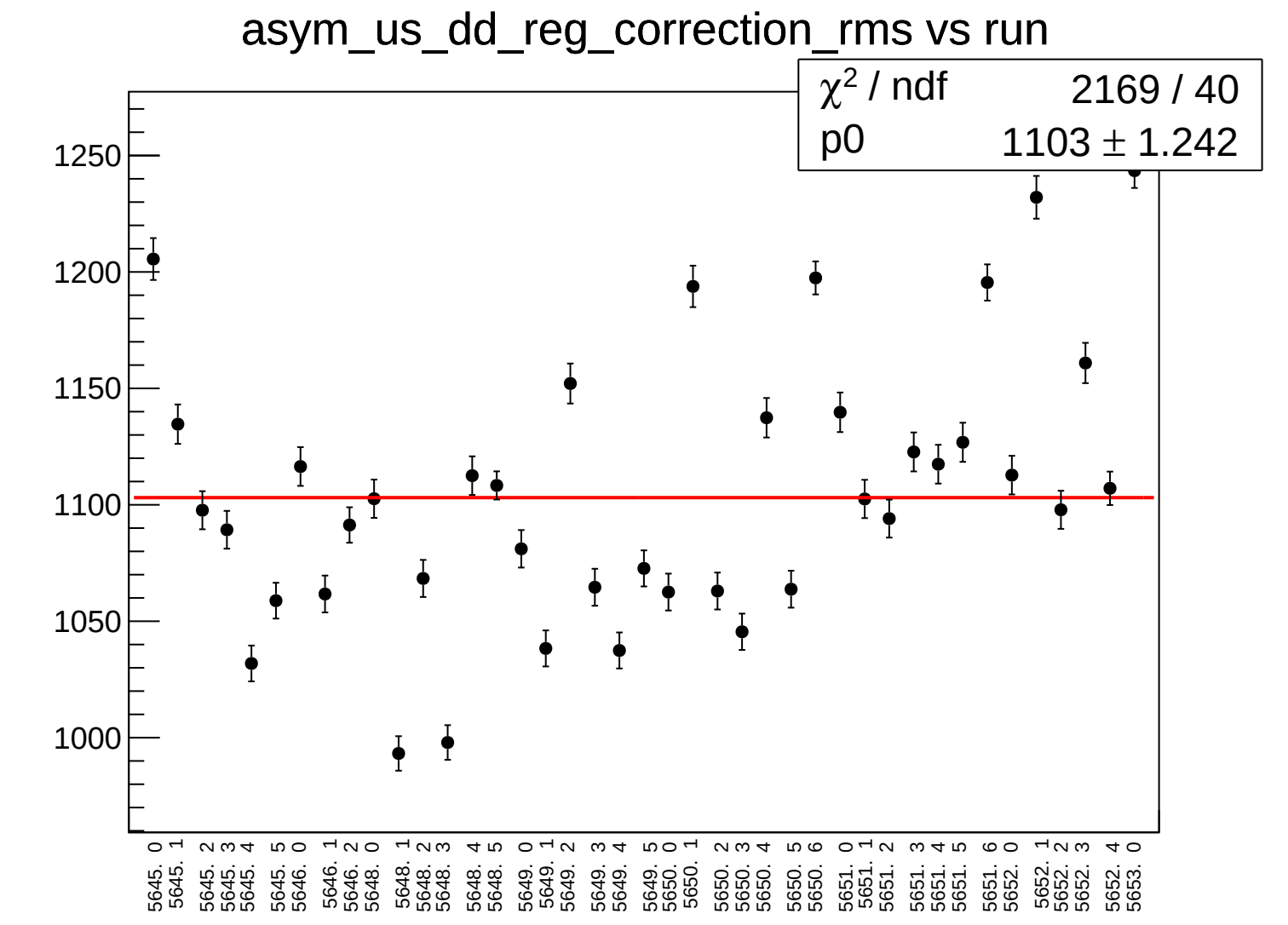
5652. 2
5652. 3
5652. 4
5653. 0

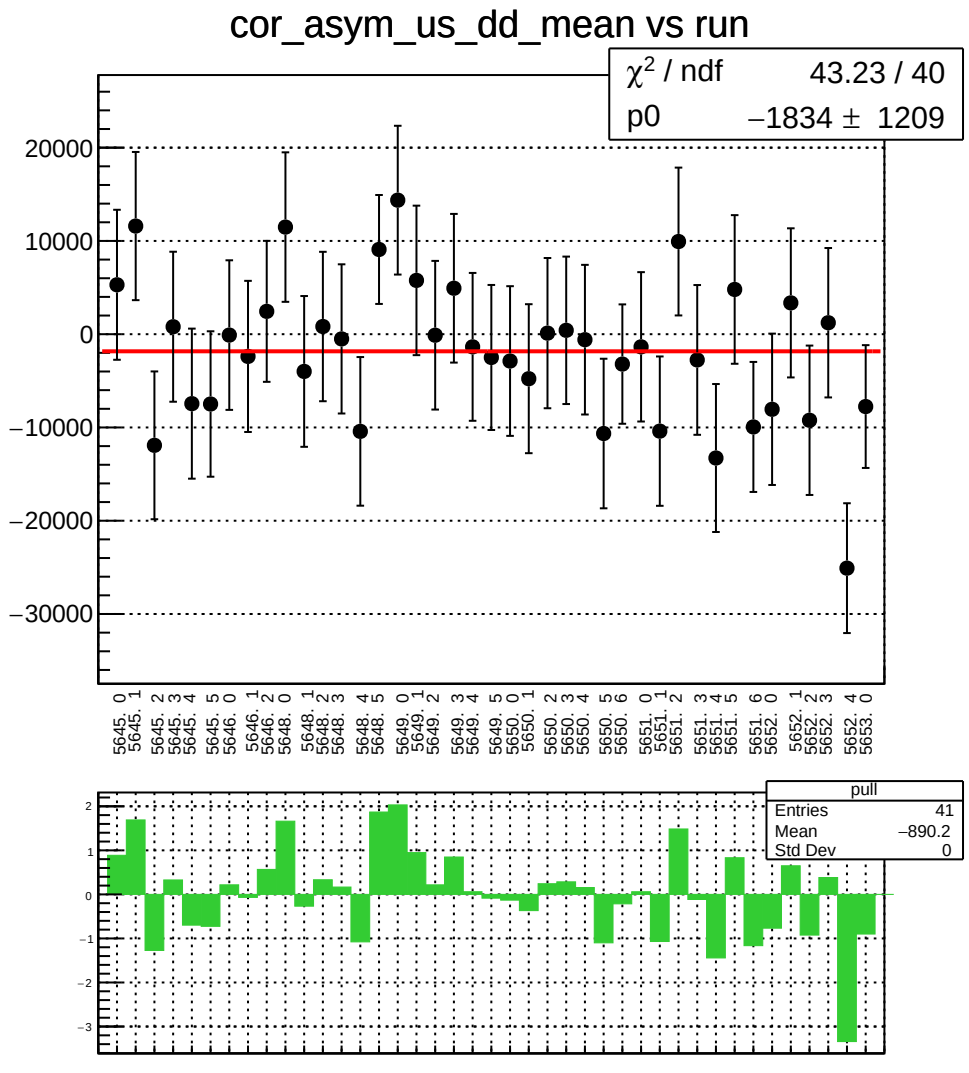

reg_asym_us_dd_mean vs run
χ² / ndf 43.23 / 40
p0 −1834 ± 1209
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −890.2
Std Dev 0
2
1
0
−1
−2
−3

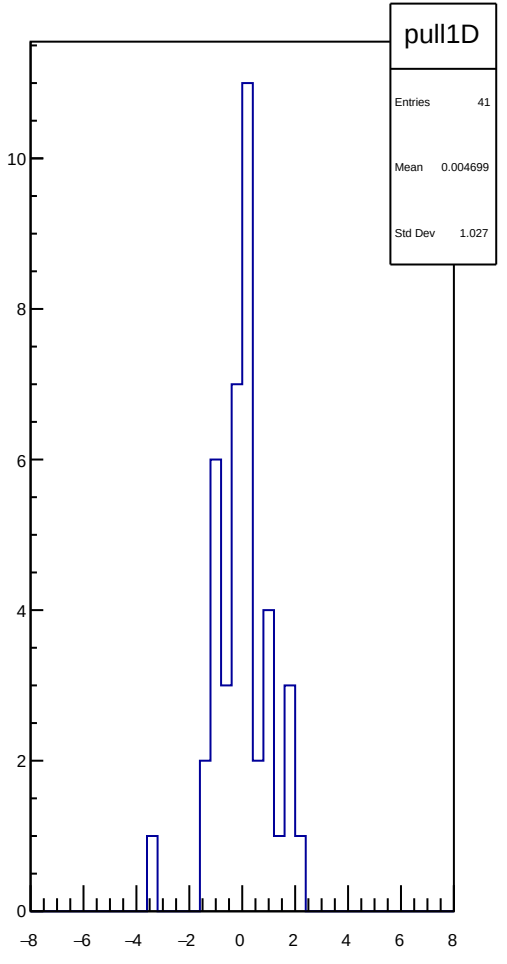

pull1D
Entries 41
Mean 0.004699
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

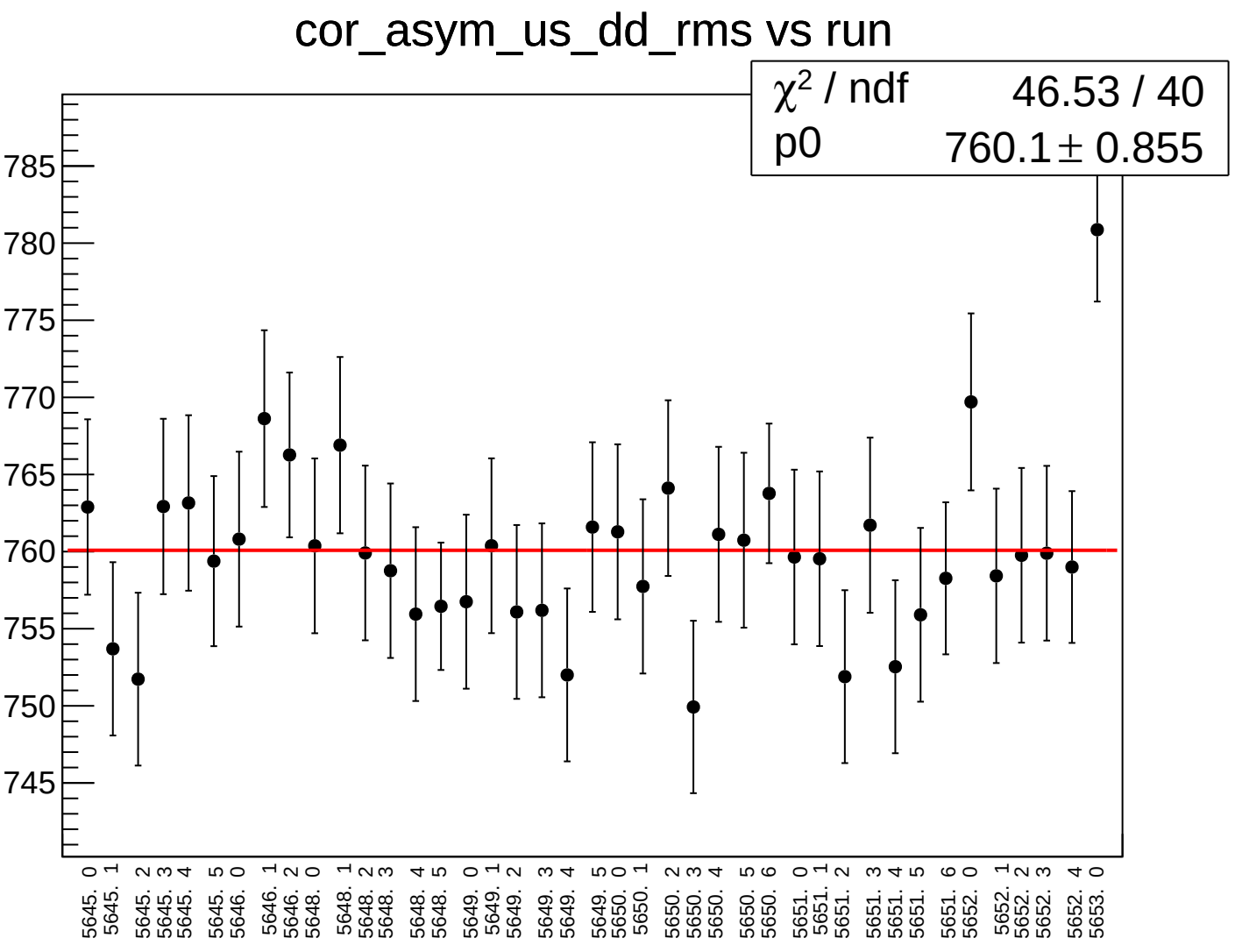

reg_asym_us_dd_rms vs run
χ² / ndf 46.53 / 40
p0 760.1 ± 0.855
785
780
775
770
765
760
755
750
745
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

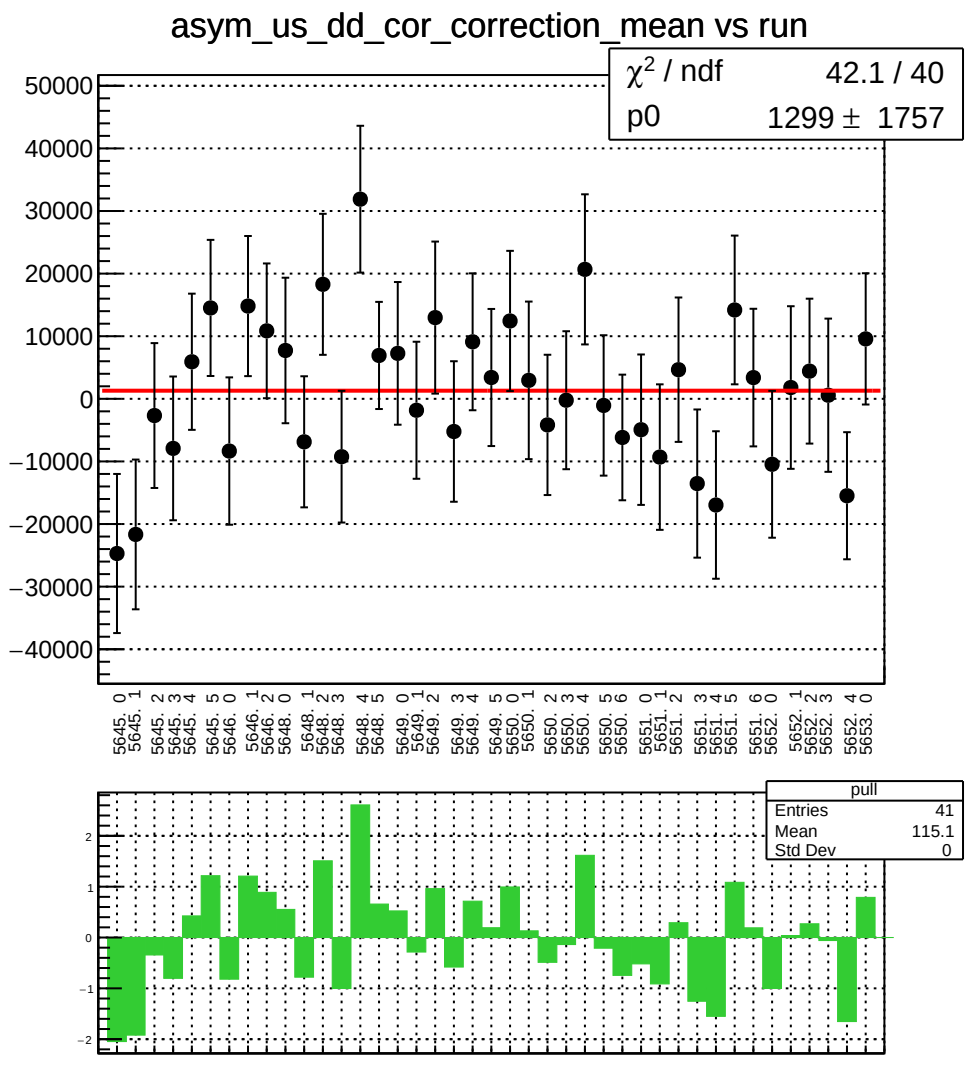

asym_us_dd_reg_correction_mean vs run
χ² / ndf 42.1 / 40
p0 1299 ± 1757
pull
Entries 41
Mean 115.1
Std Dev 0
pull1D
Entries 41
Mean −0.006025
Std Dev 1.013

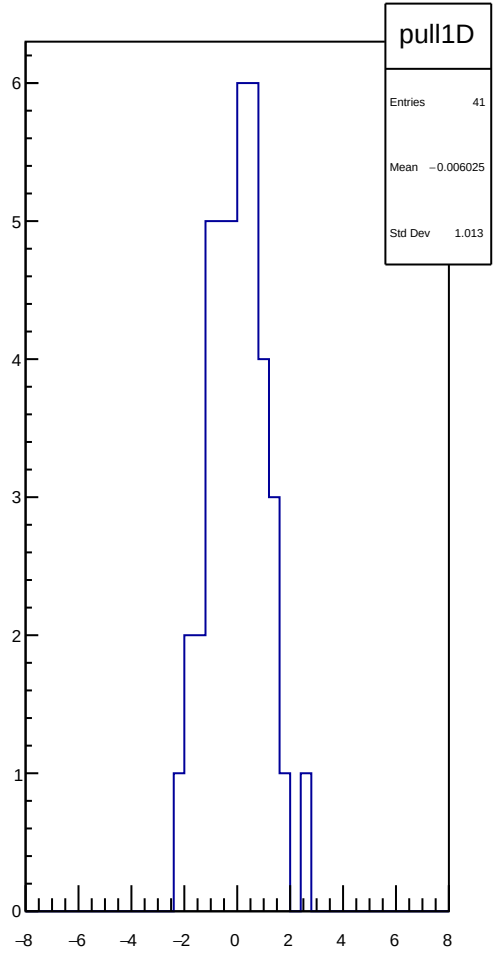

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2169 / 40
p0 1103 ± 1.242
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

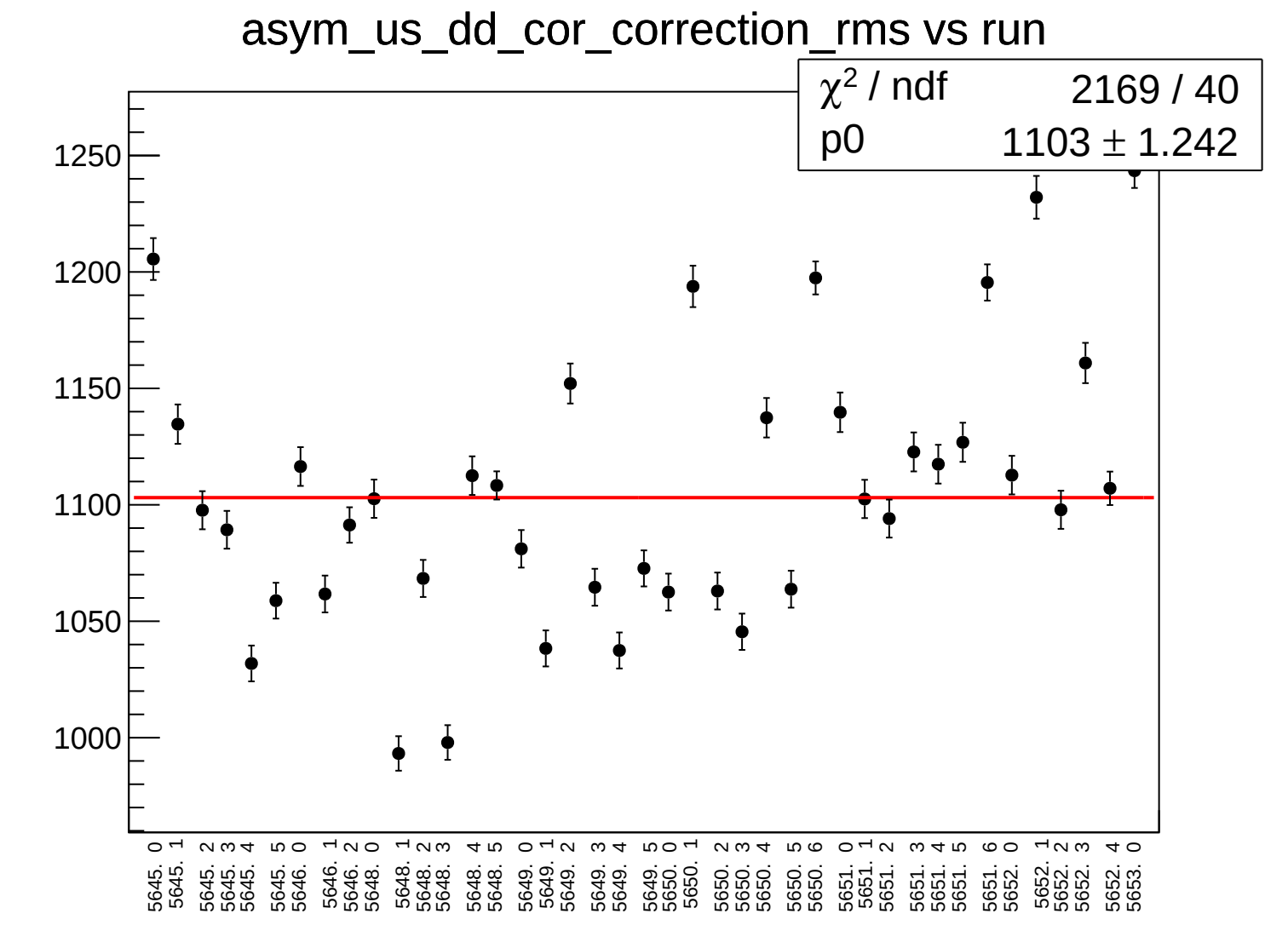

cor_asym_us_dd_mean vs run
χ² / ndf 43.23 / 40
p0 −1834 ± 1209
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −890.2
Std Dev 0
2
1
0
−1
−2
−3

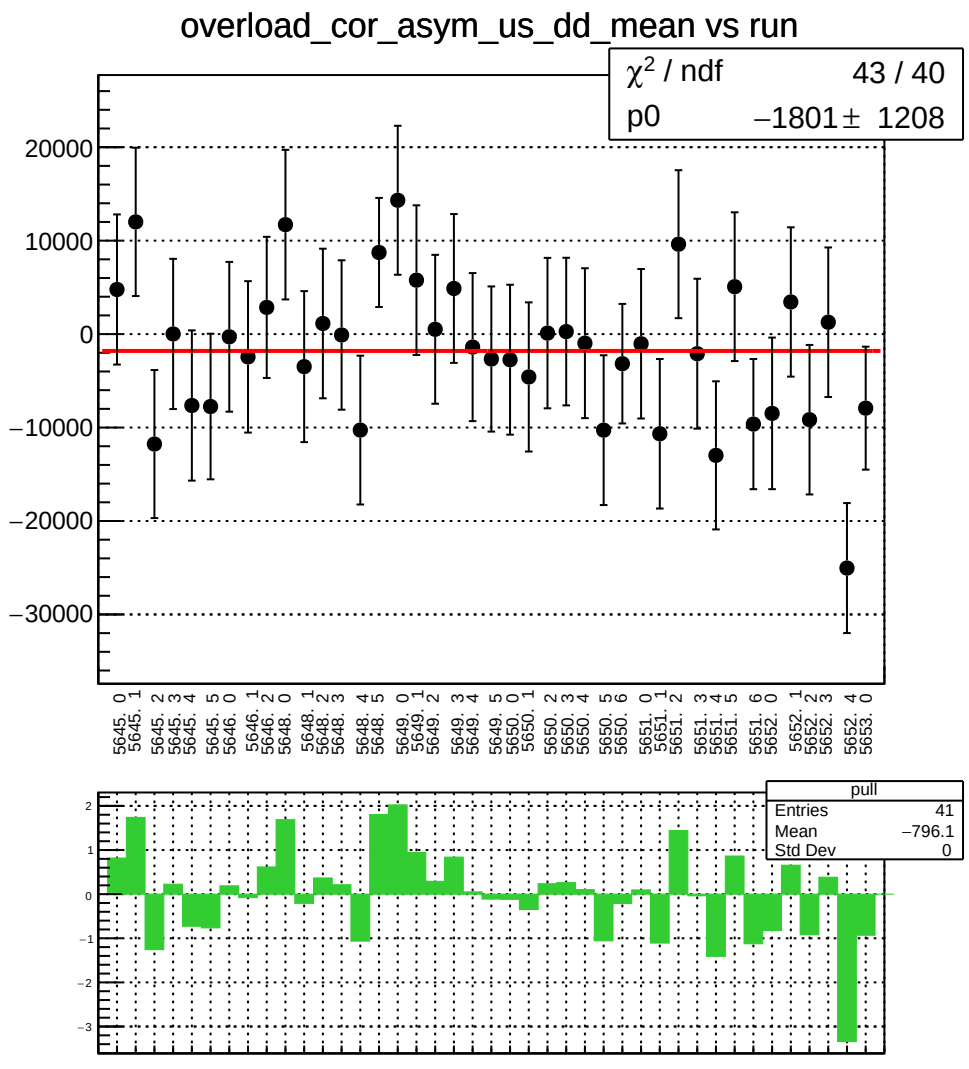

pull1D
Entries 41
Mean 0.004699
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

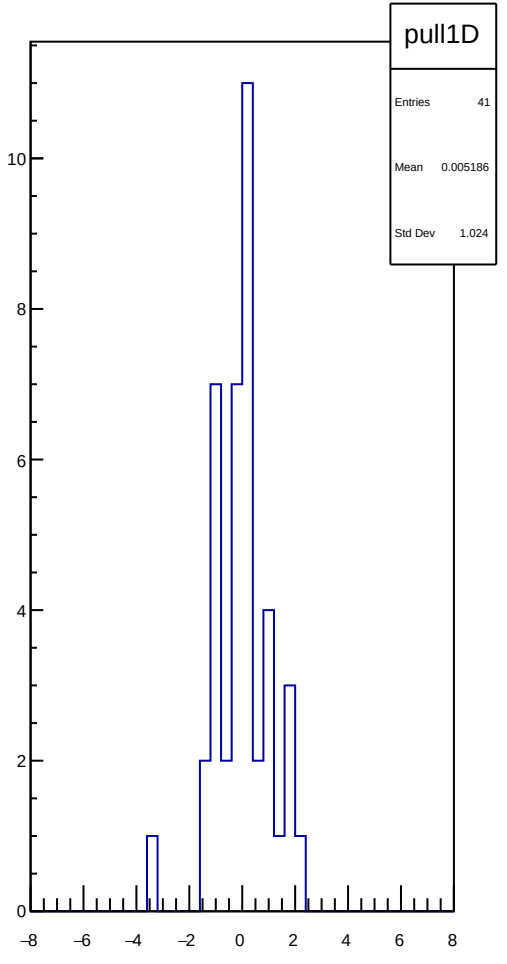

cor_asym_us_dd_rms vs run
χ² / ndf 46.53 / 40
p0 760.1 ± 0.855
785
780
775
770
765
760
755
750
745
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

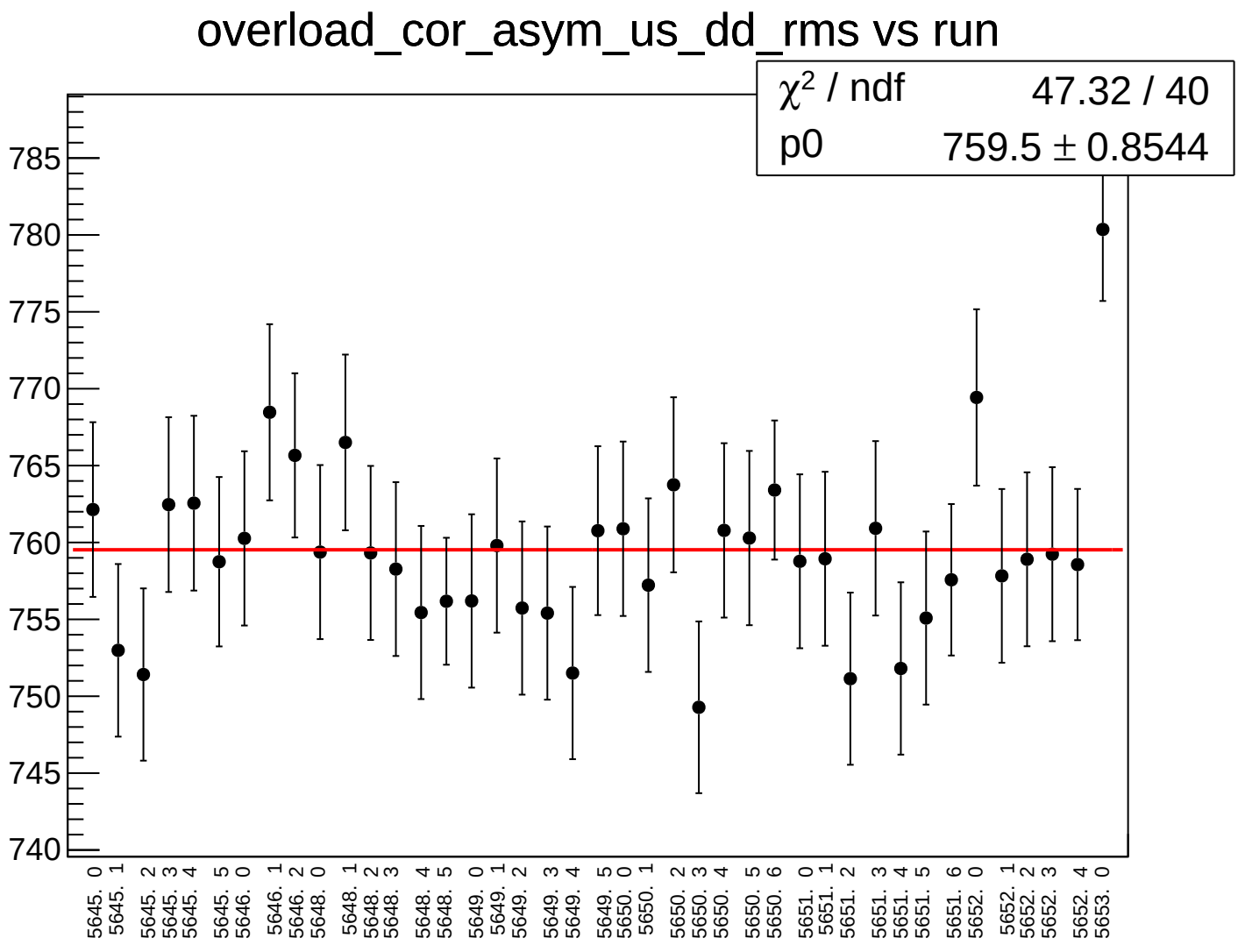

asym_us_dd_cor_correction_mean vs run
χ² / ndf 42.1 / 40
p0 1299 ± 1757
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 115.1
Std Dev 0
2
1
0
−1
−2

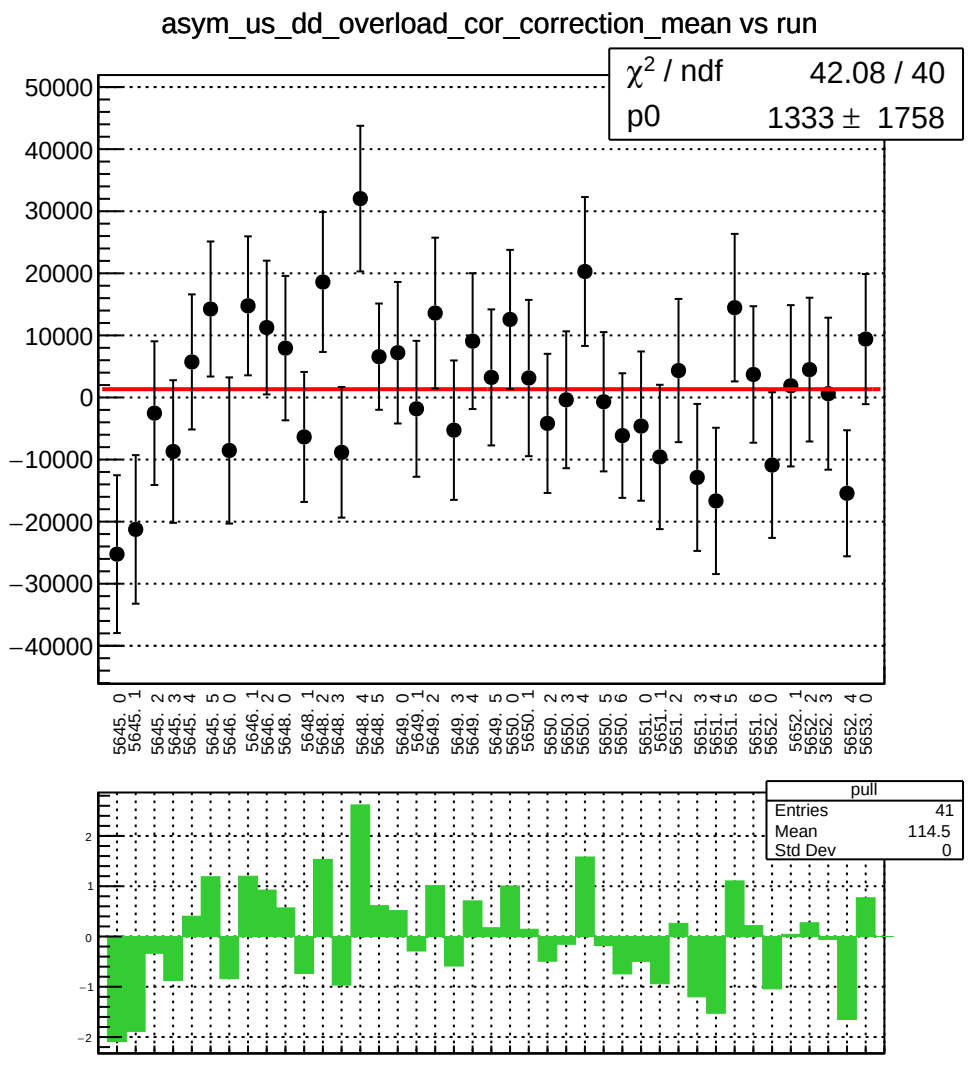

pull1D
Entries 41
Mean −0.006025
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

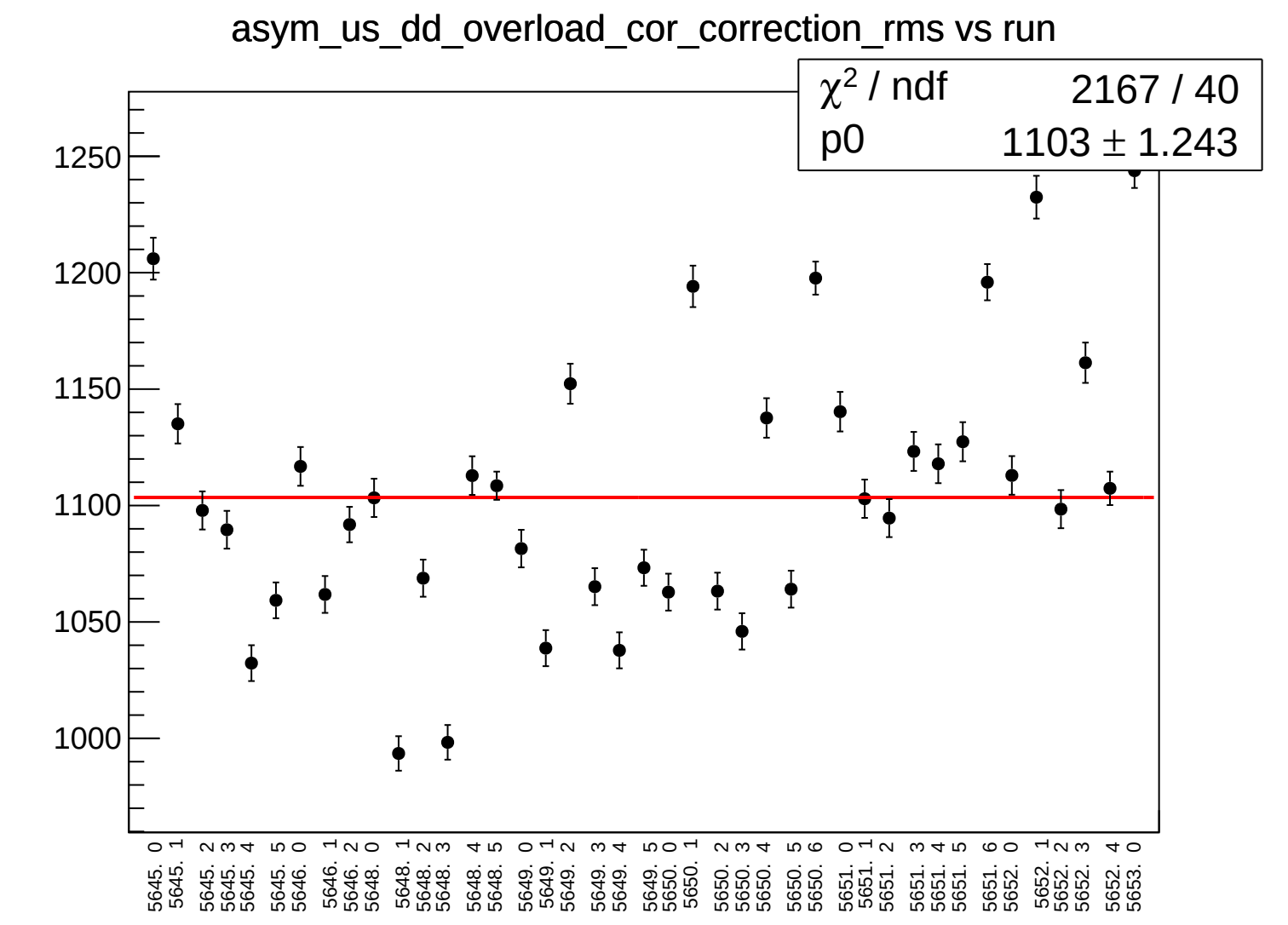

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2169 / 40
p0 1103 ± 1.242
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

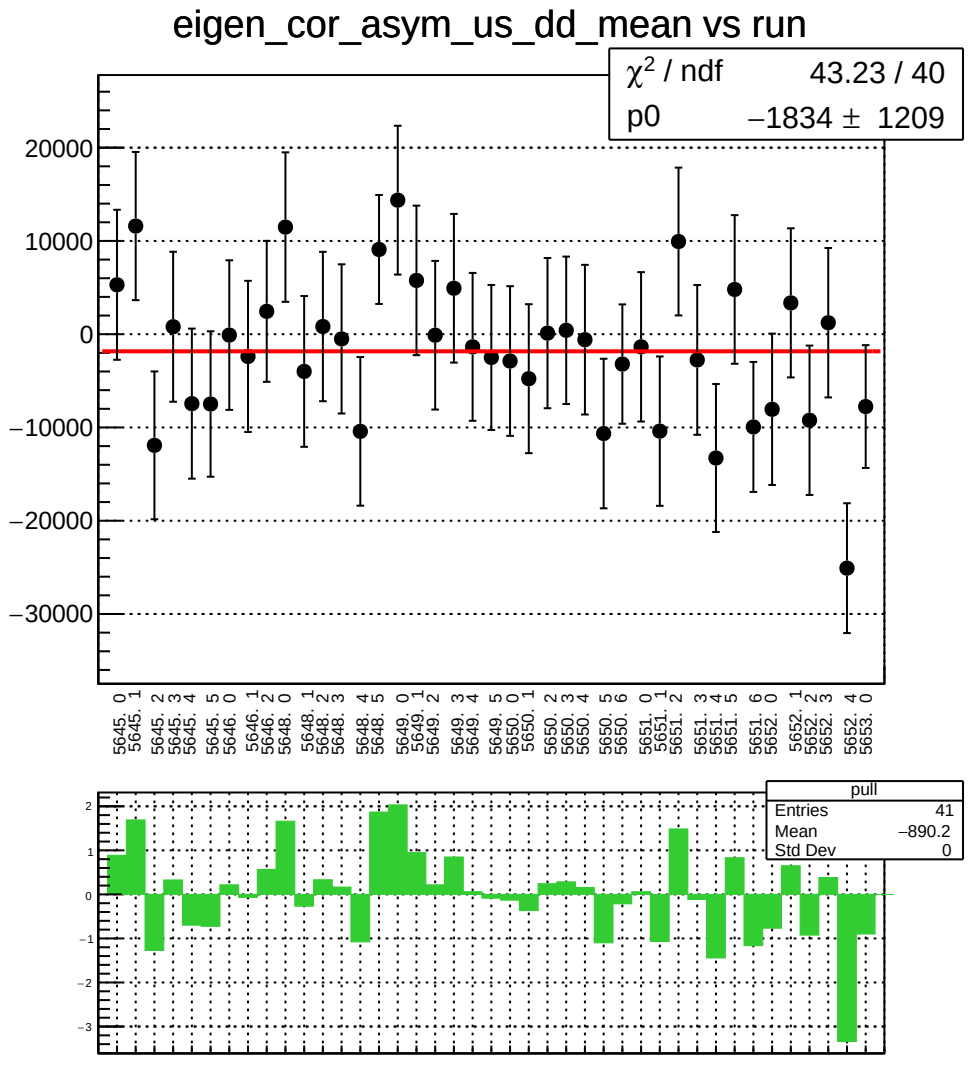

overload_cor_asym_us_dd_mean vs run
χ² / ndf 43 / 40
p0 −1801 ± 1208
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −796.1
Std Dev 0
2
1
0
−1
−2
−3

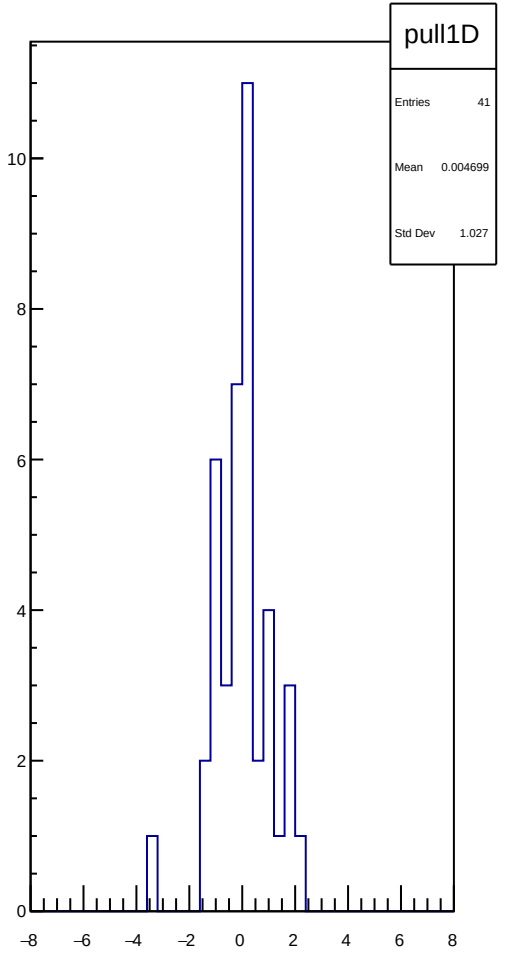

pull1D
Entries 41
Mean 0.005186
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

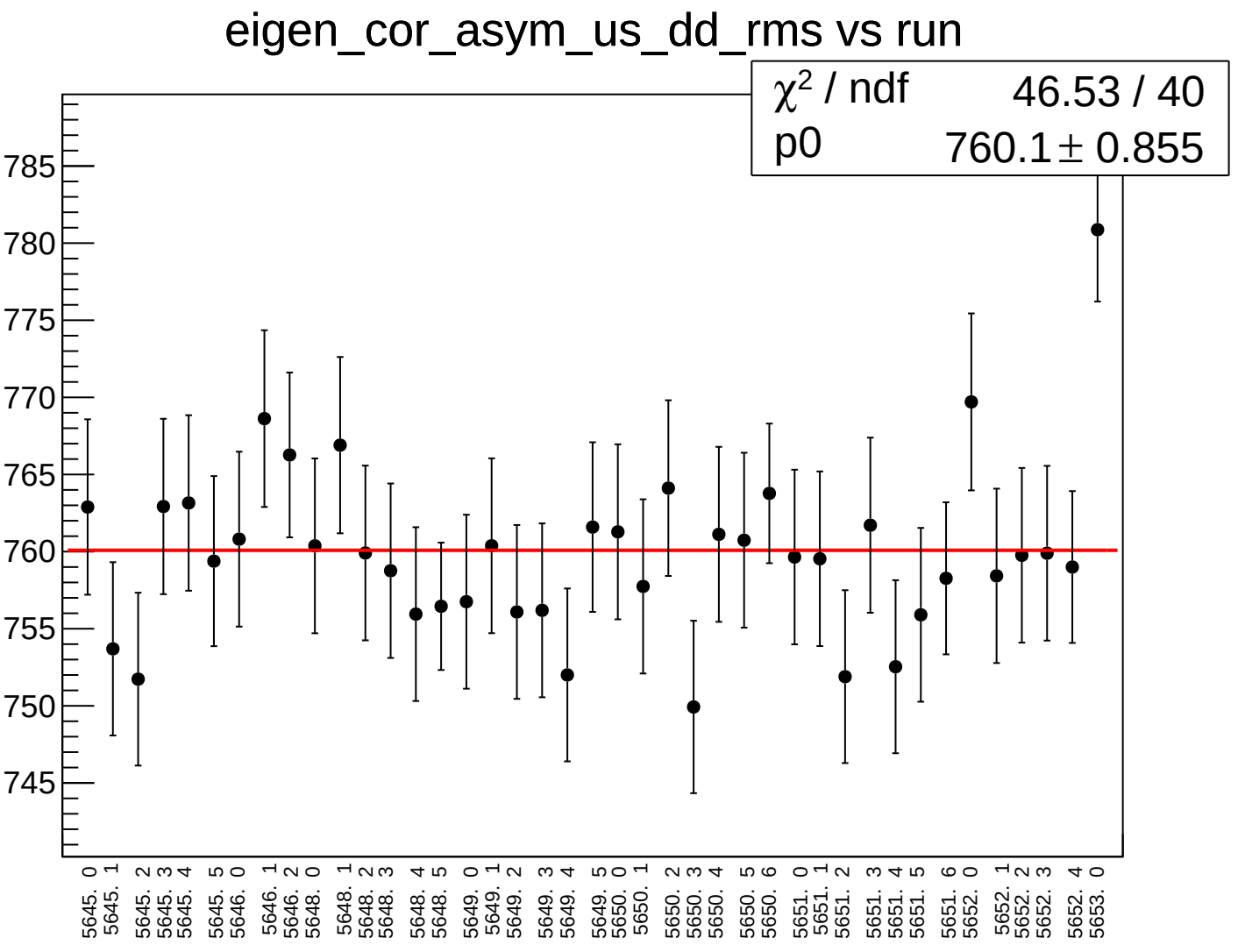

overload_cor_asym_us_dd_rms vs run
χ² / ndf 47.32 / 40
p0 759.5 ± 0.8544
785
780
775
770
765
760
755
750
745
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

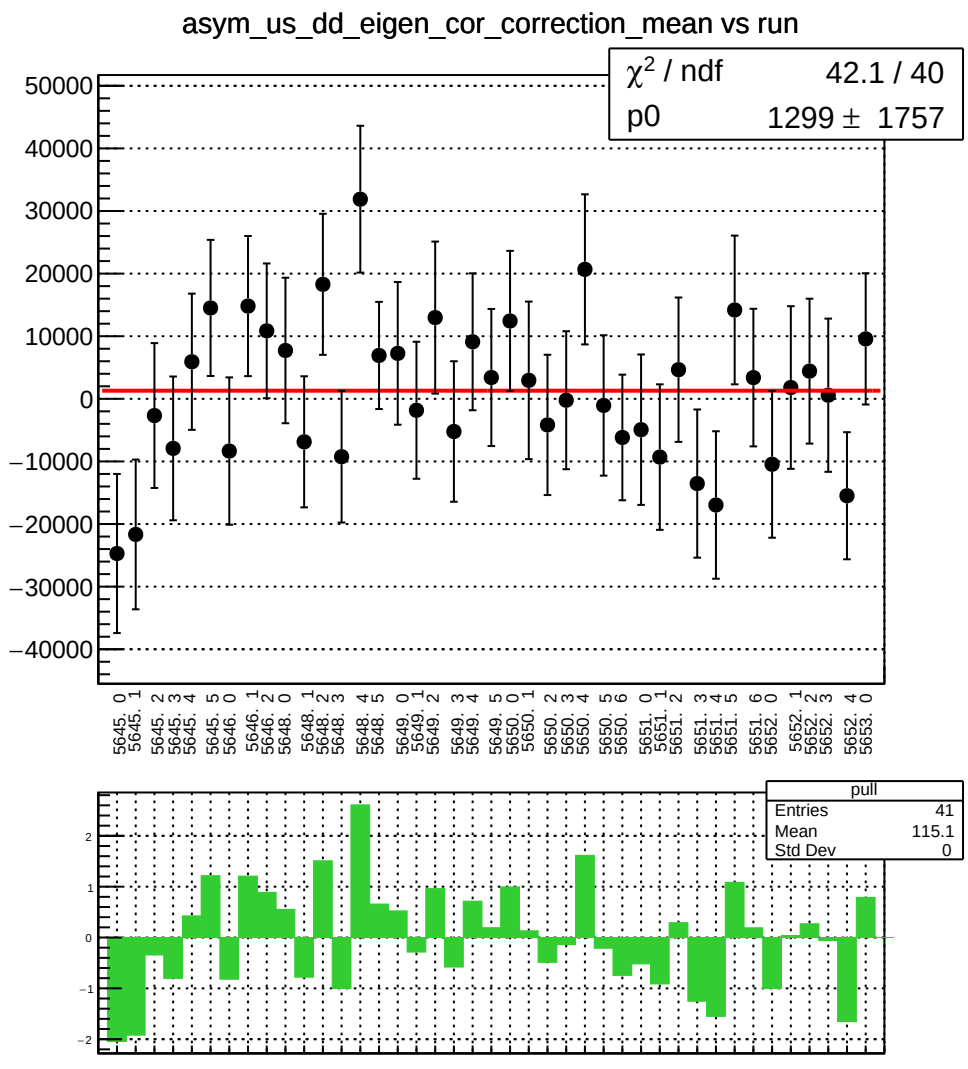

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 42.08 / 40
p0 1333 ± 1758
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 114.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.005739
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

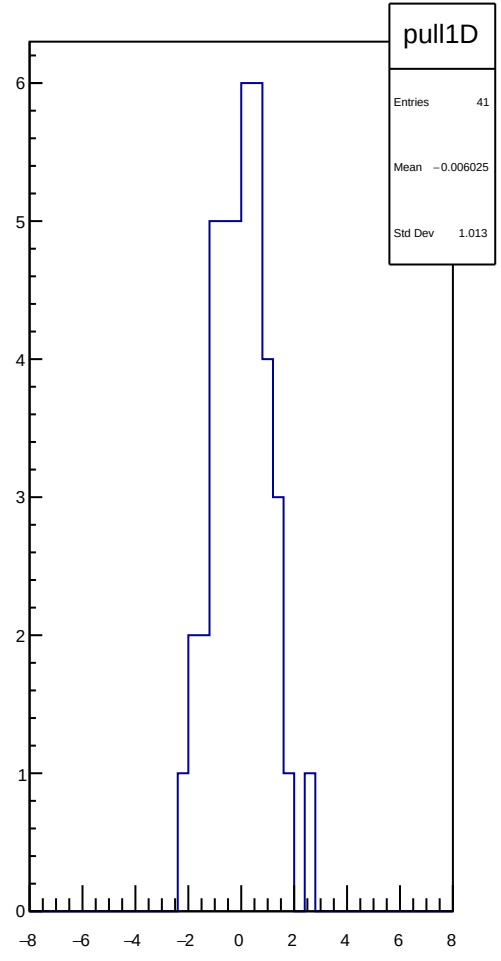

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2167 / 40
p0 1103 ± 1.243
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

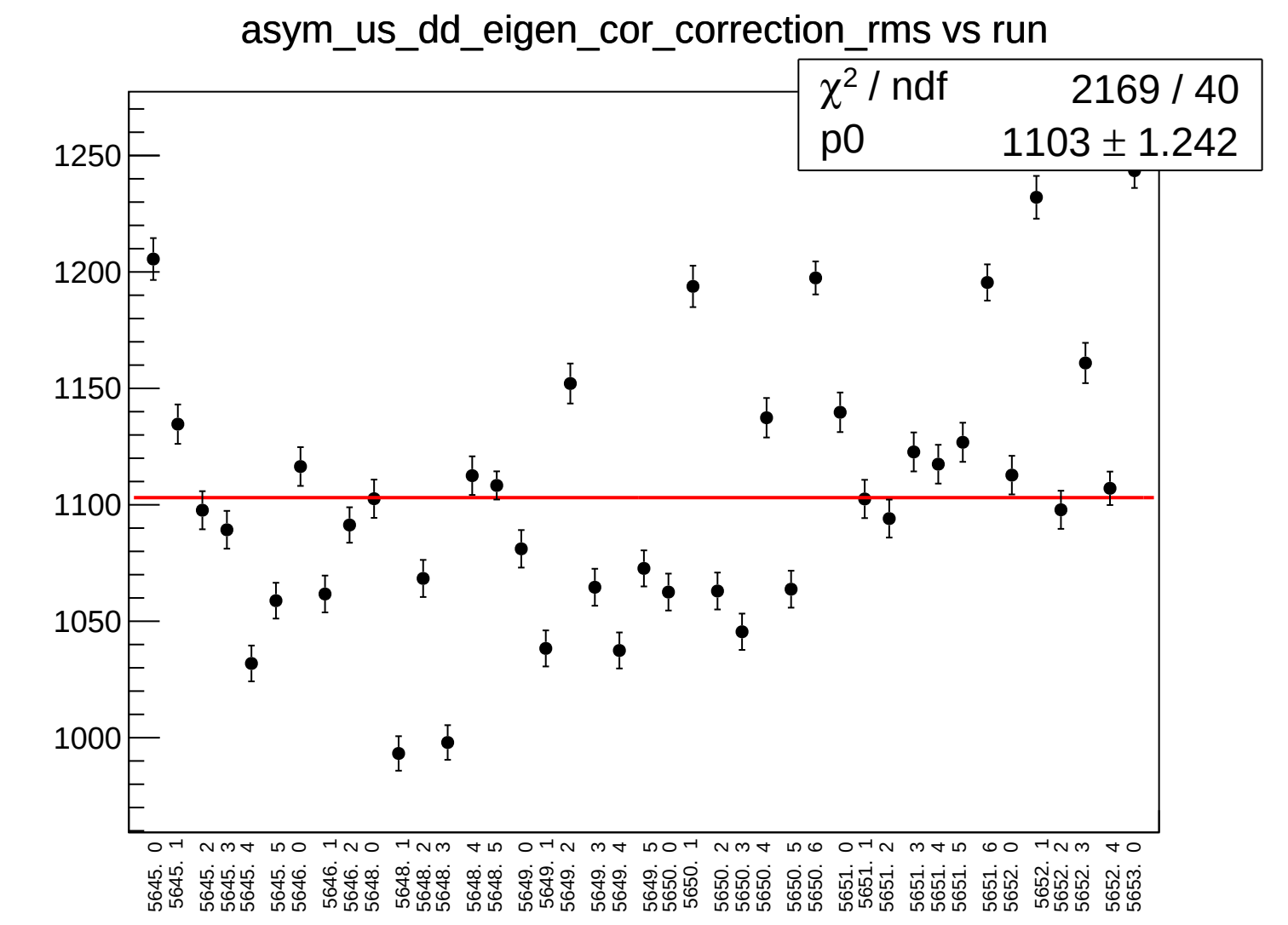

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 43.23 / 40
p0 −1834 ± 1209
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −890.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.004699
Std Dev 1.027
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 46.53 / 40
p0 760.1 ± 0.855
785
780
775
770
765
760
755
750
745
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.1 / 40
p0 1299 ± 1757
pull
Entries 41
Mean 115.1
Std Dev 0


pull1D
Entries 41
Mean −0.006025
Std Dev 1.013


asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2169 / 40
p0 1103 ± 1.242
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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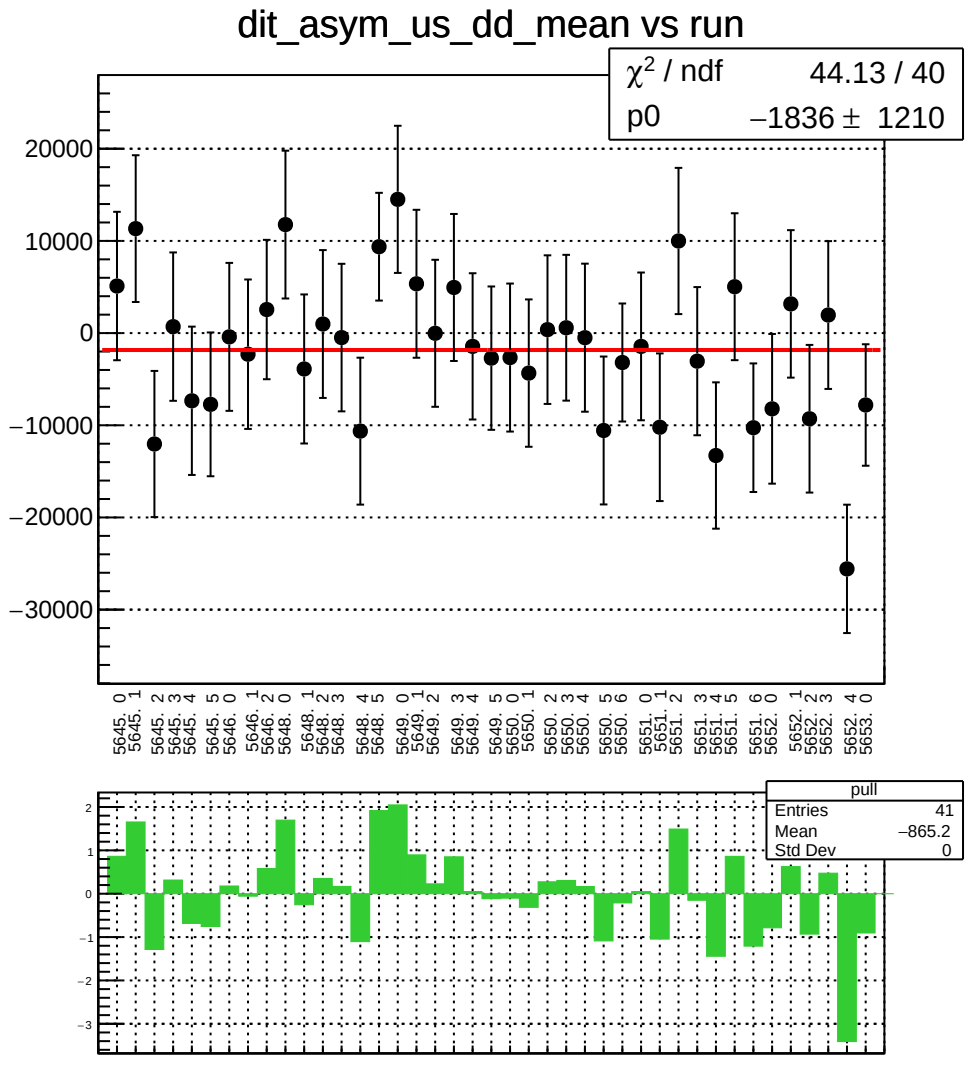
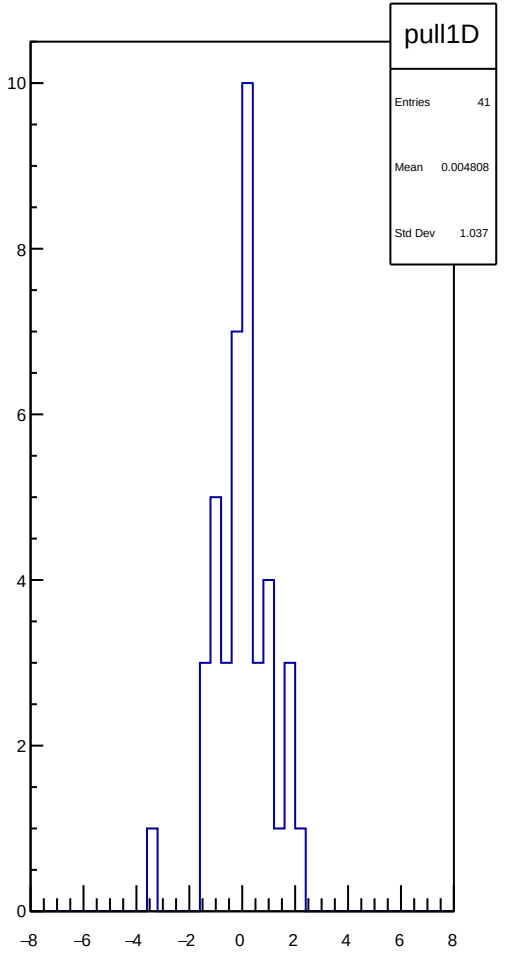
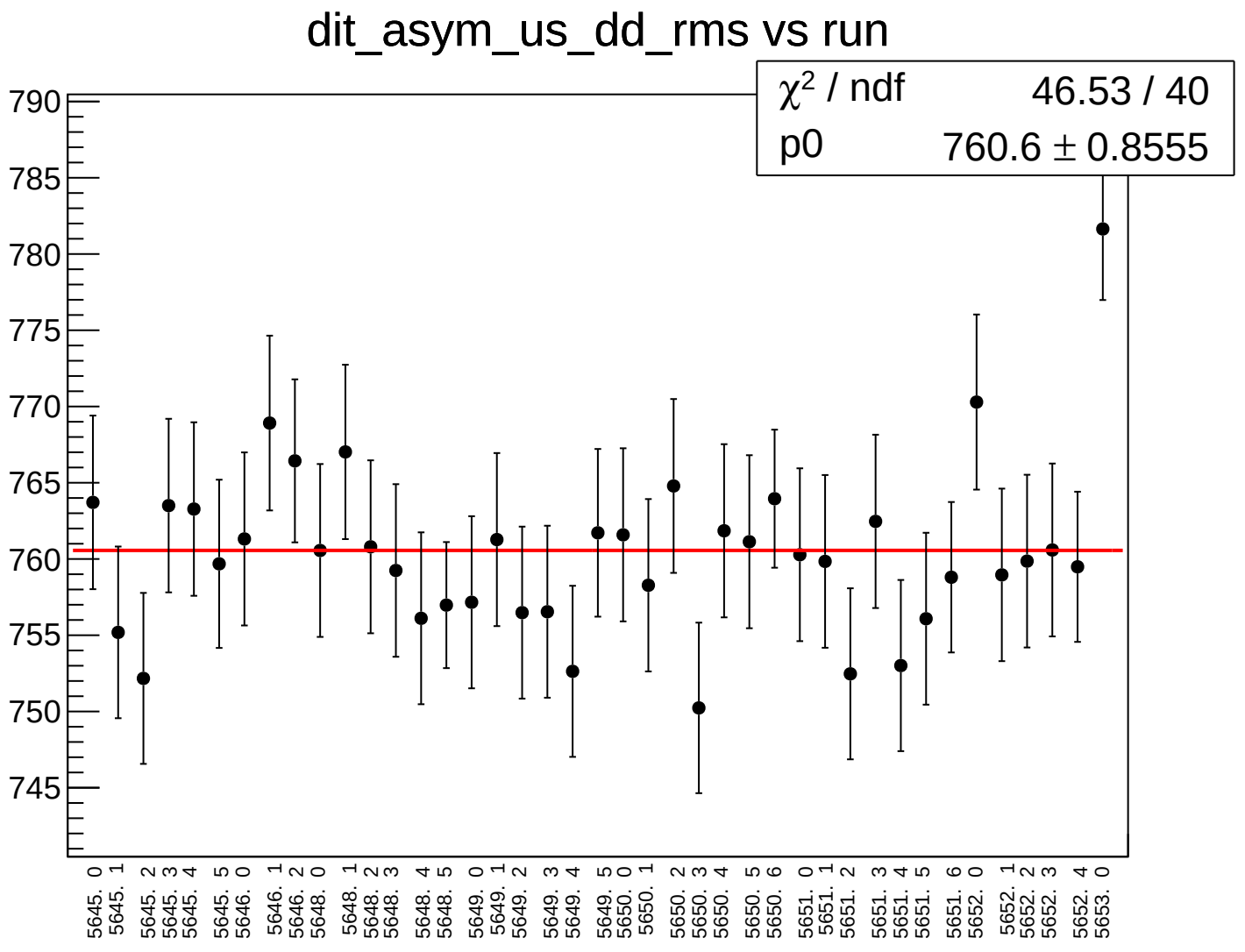
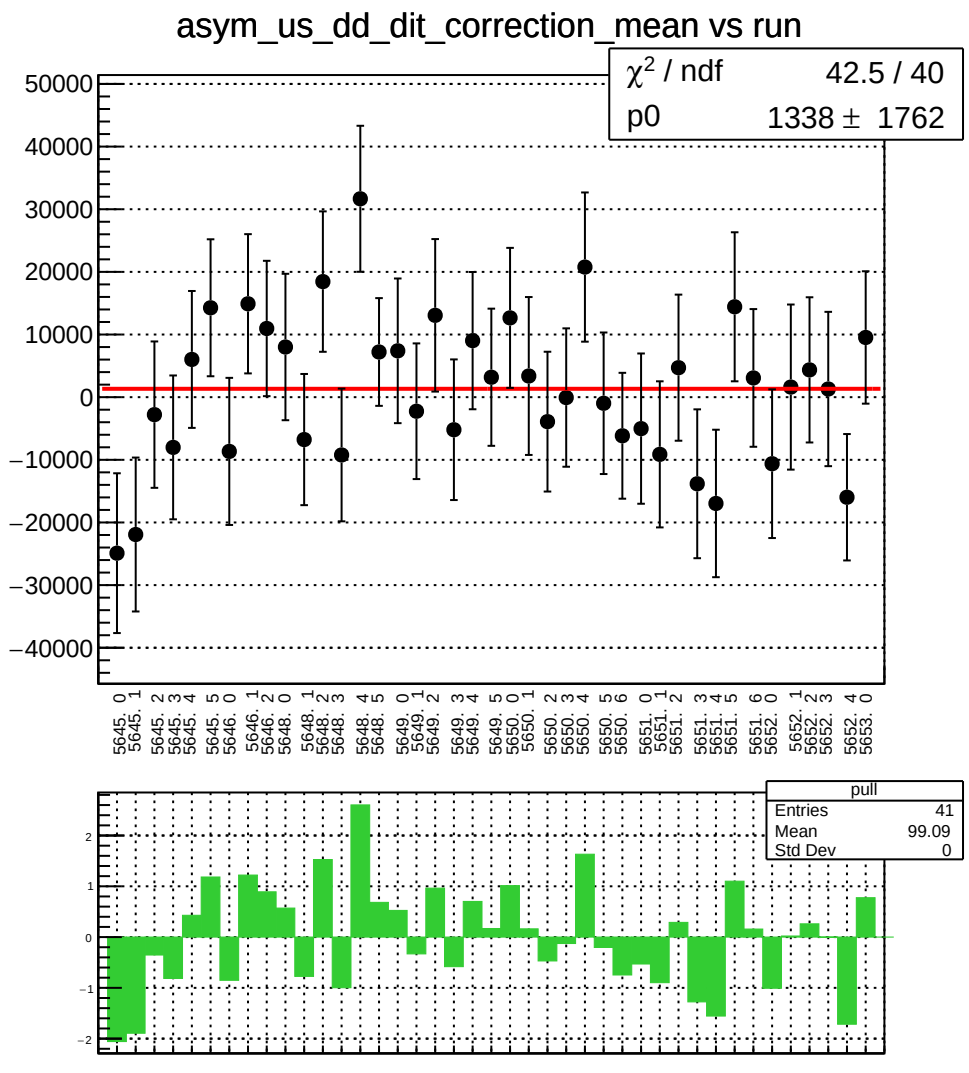
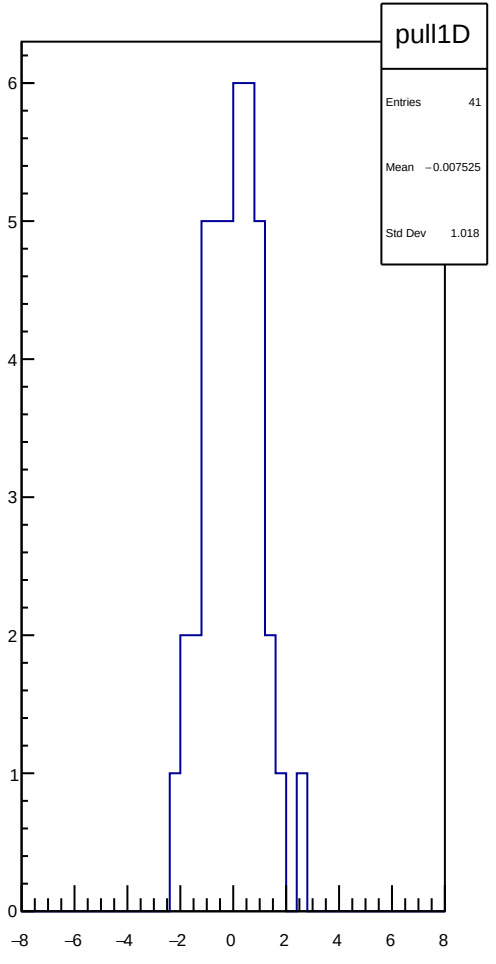
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

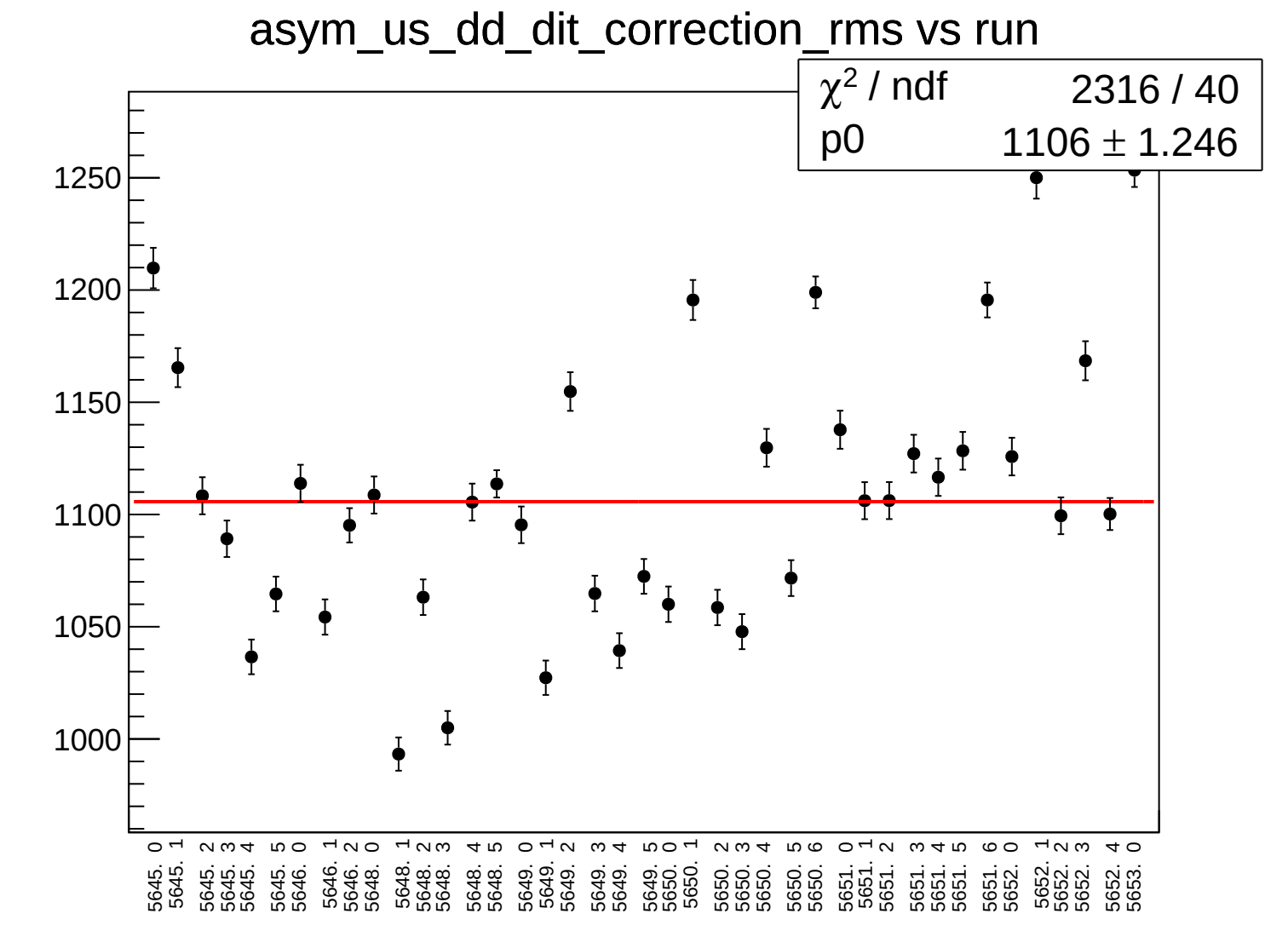

dit_asym_us_dd_mean vs run
χ² / ndf 44.13 / 40
p0 −1836 ± 1210
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −865.2
Std Dev 0
2
1
0
−1
−2
−3

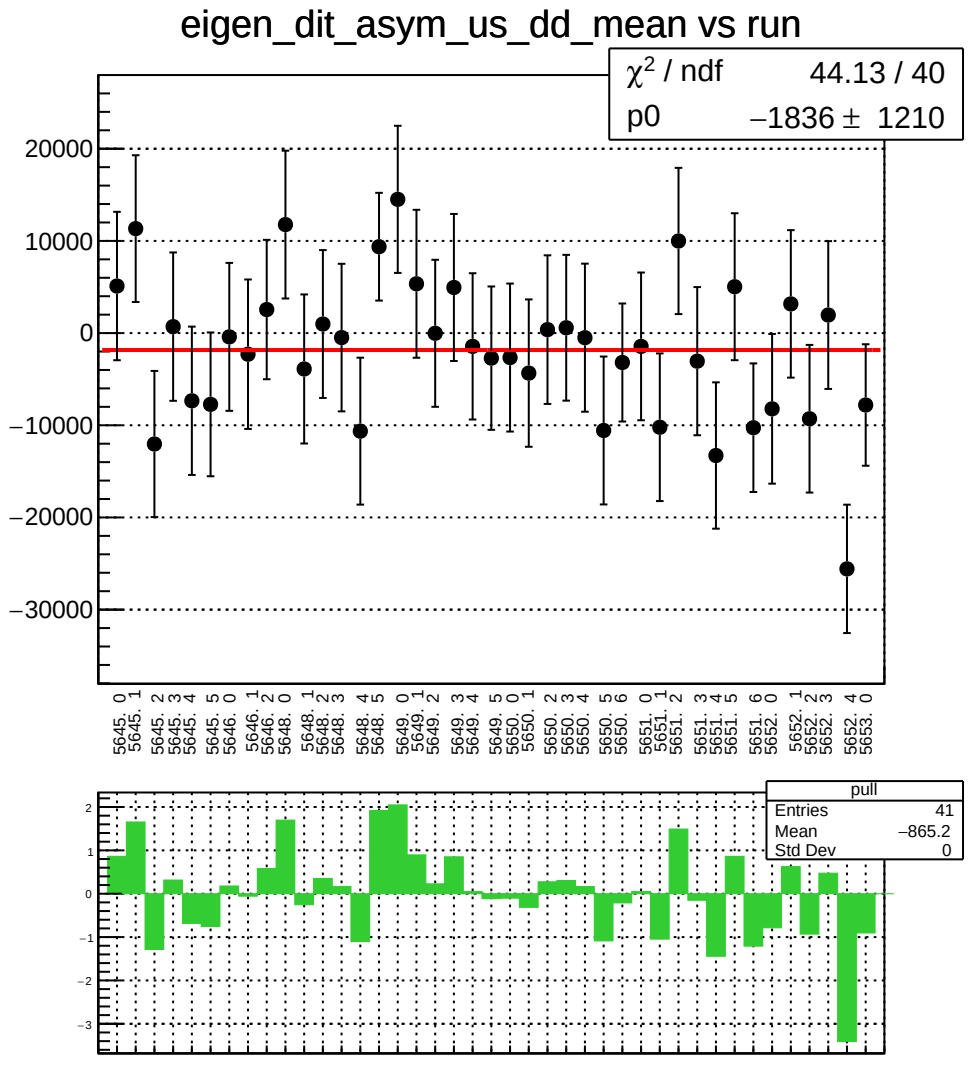

pull1D
Entries 41
Mean 0.004808
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

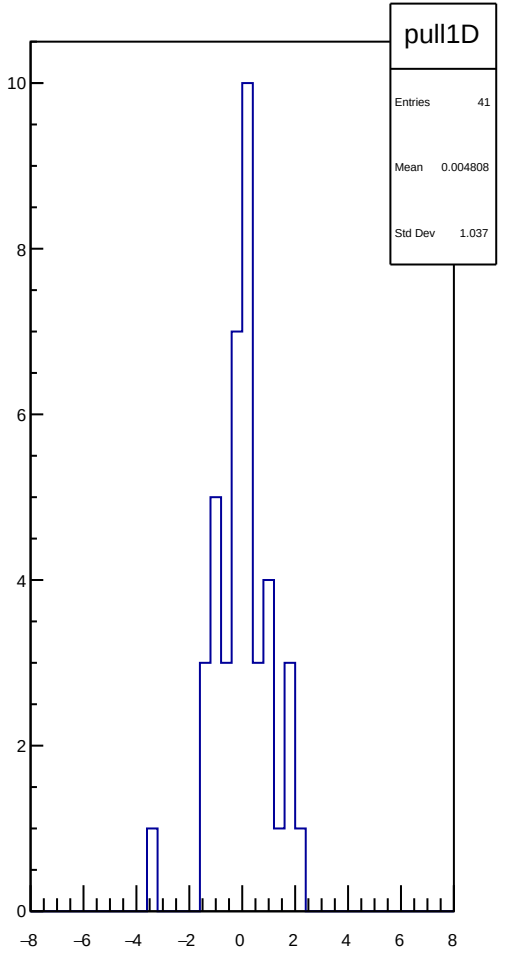

dit_asym_us_dd_rms vs run
χ² / ndf 46.53 / 40
p0 760.6 ± 0.8555
790
785
780
775
770
765
760
755
750
745
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

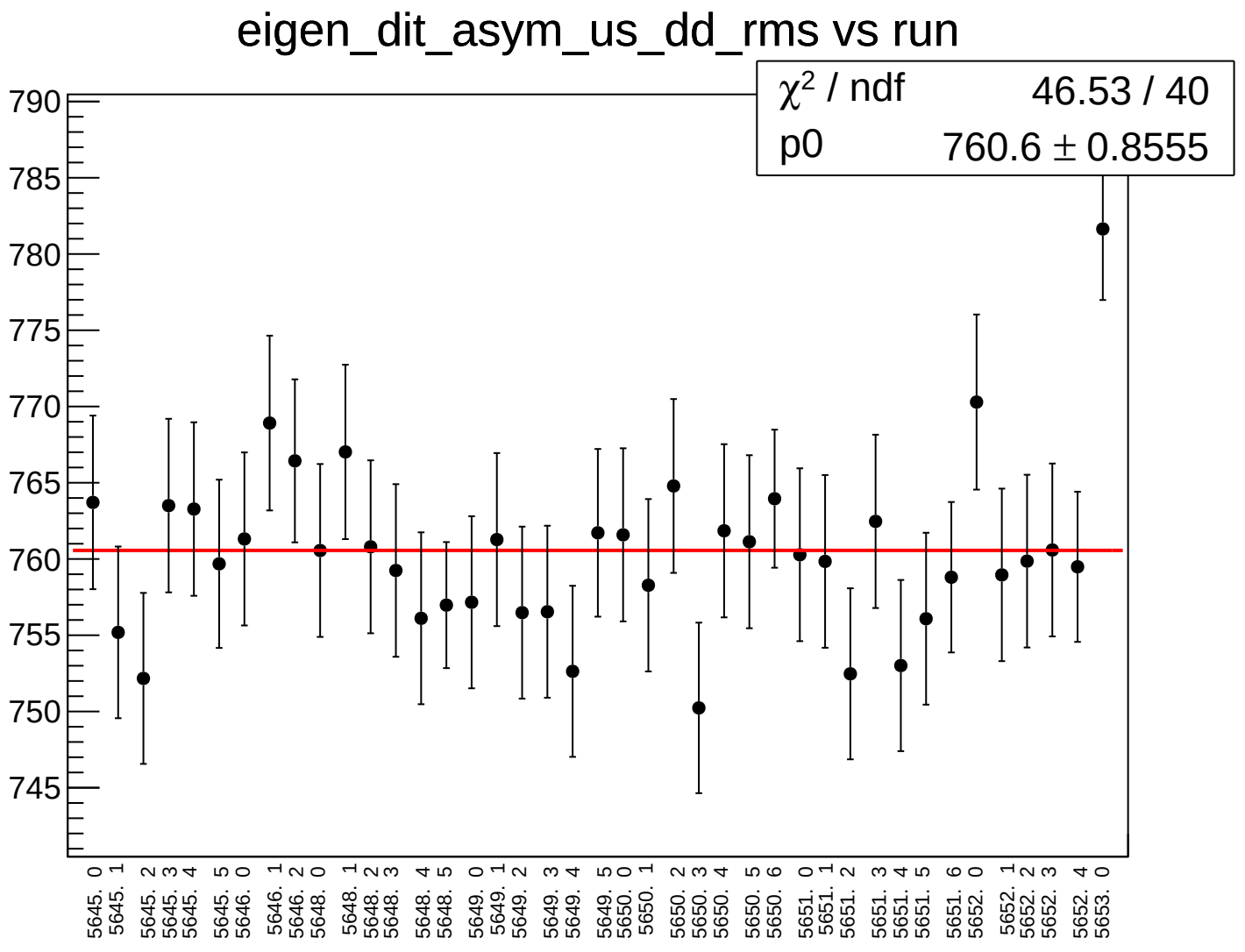

asym_us_dd_dit_correction_mean vs run
χ² / ndf 42.5 / 40
p0 1338 ± 1762
pull
Entries 41
Mean 99.09
Std Dev 0

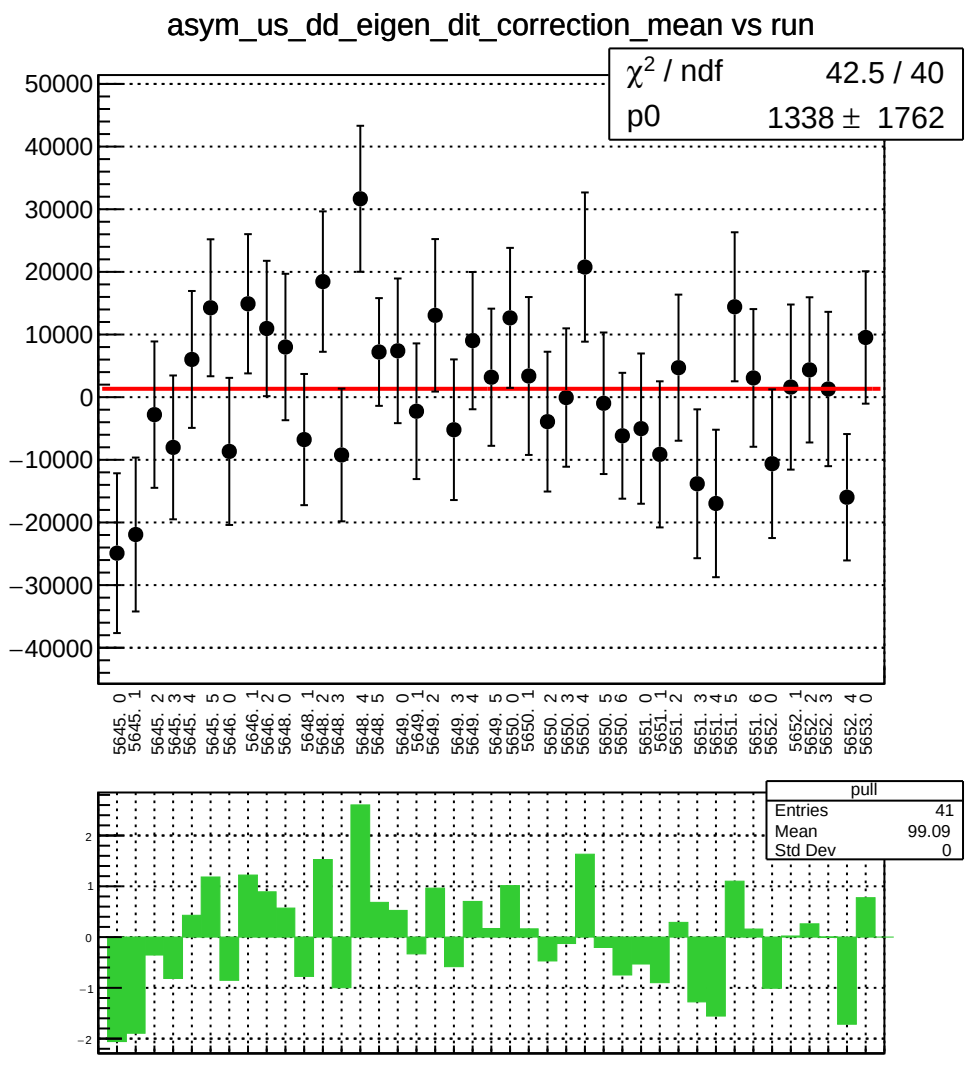

pull1D
Entries 41
Mean −0.007525
Std Dev 1.018

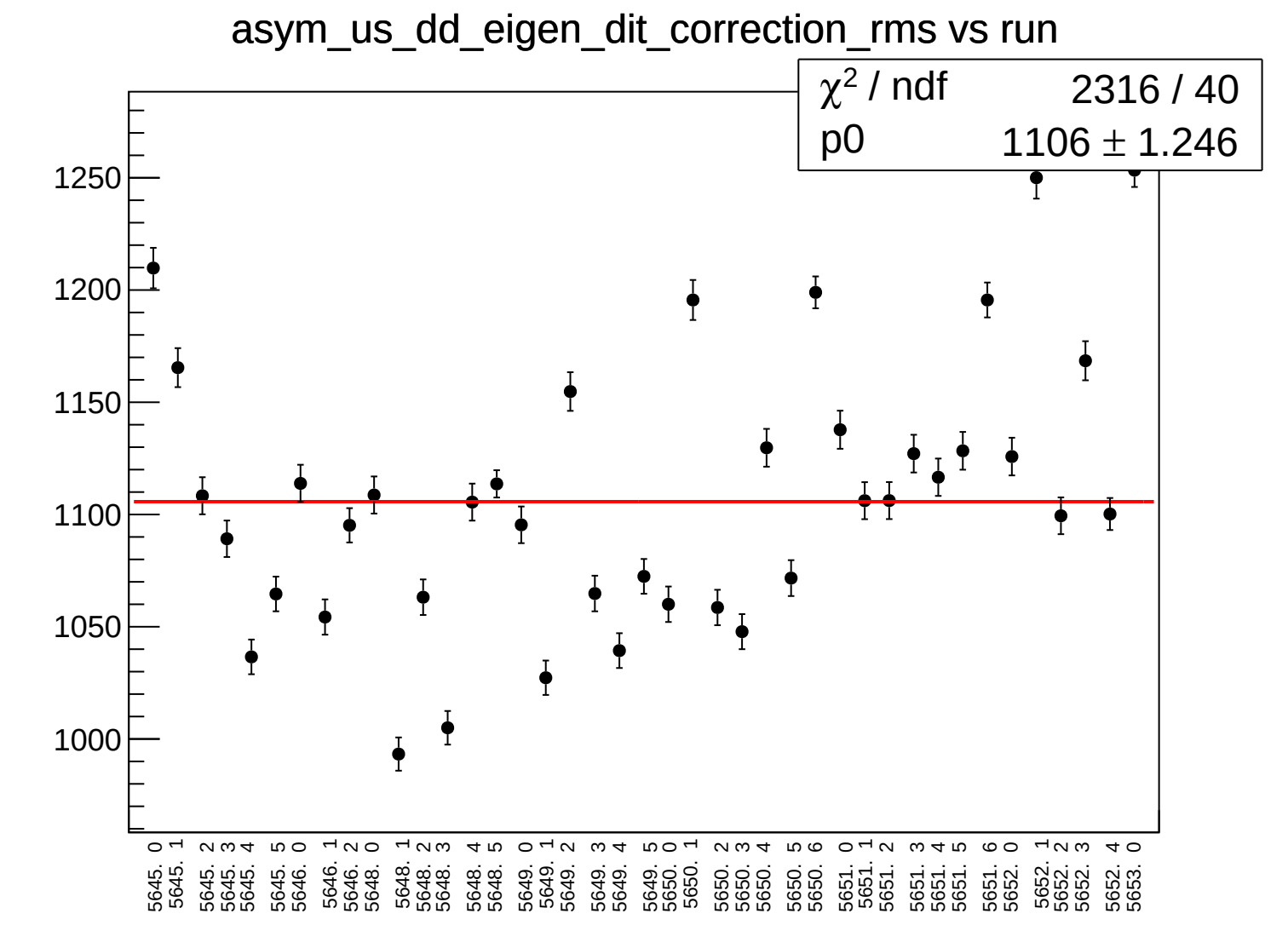

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2316 / 40
p0 1106 ± 1.246
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

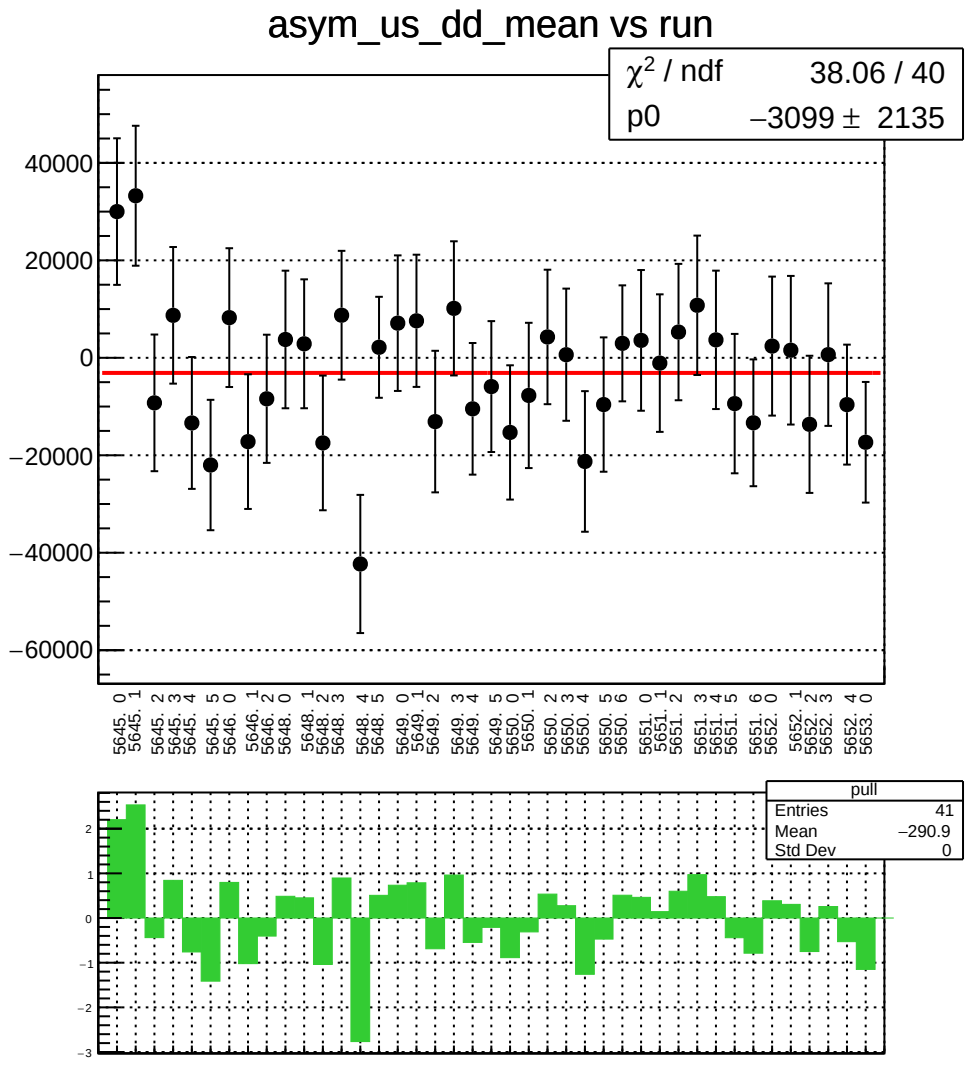

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 44.13 / 40
p0 −1836 ± 1210
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −865.2
Std Dev 0
2
1
0
−1
−2
−3

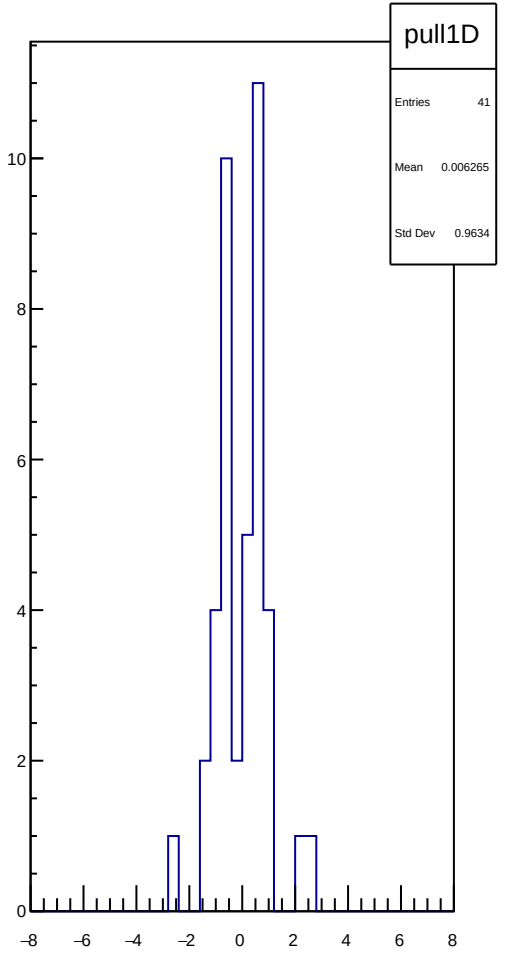

pull1D
Entries 41
Mean 0.004808
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

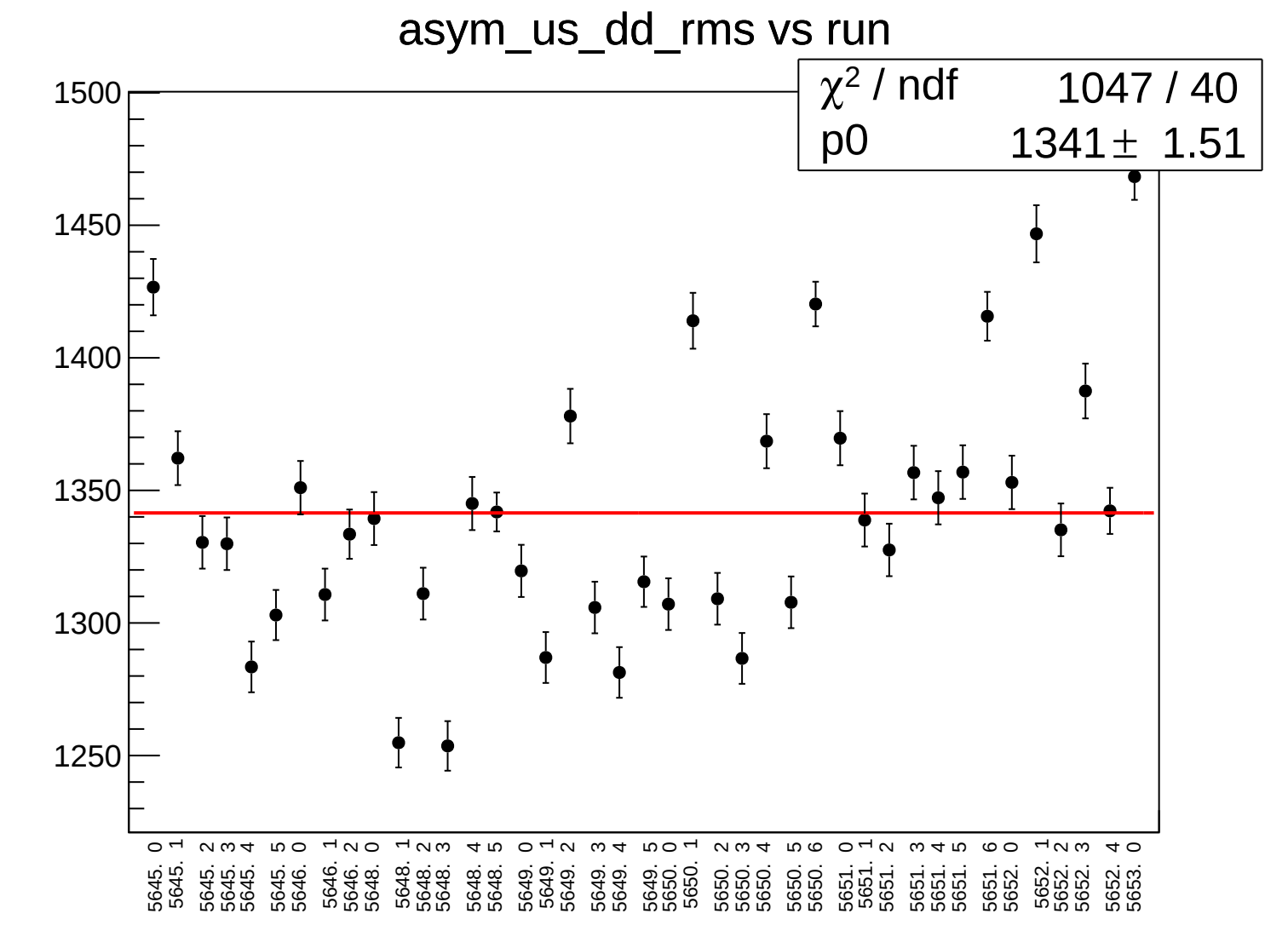

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 46.53 / 40
p0 760.6 ± 0.8555
790
785
780
775
770
765
760
755
750
745
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

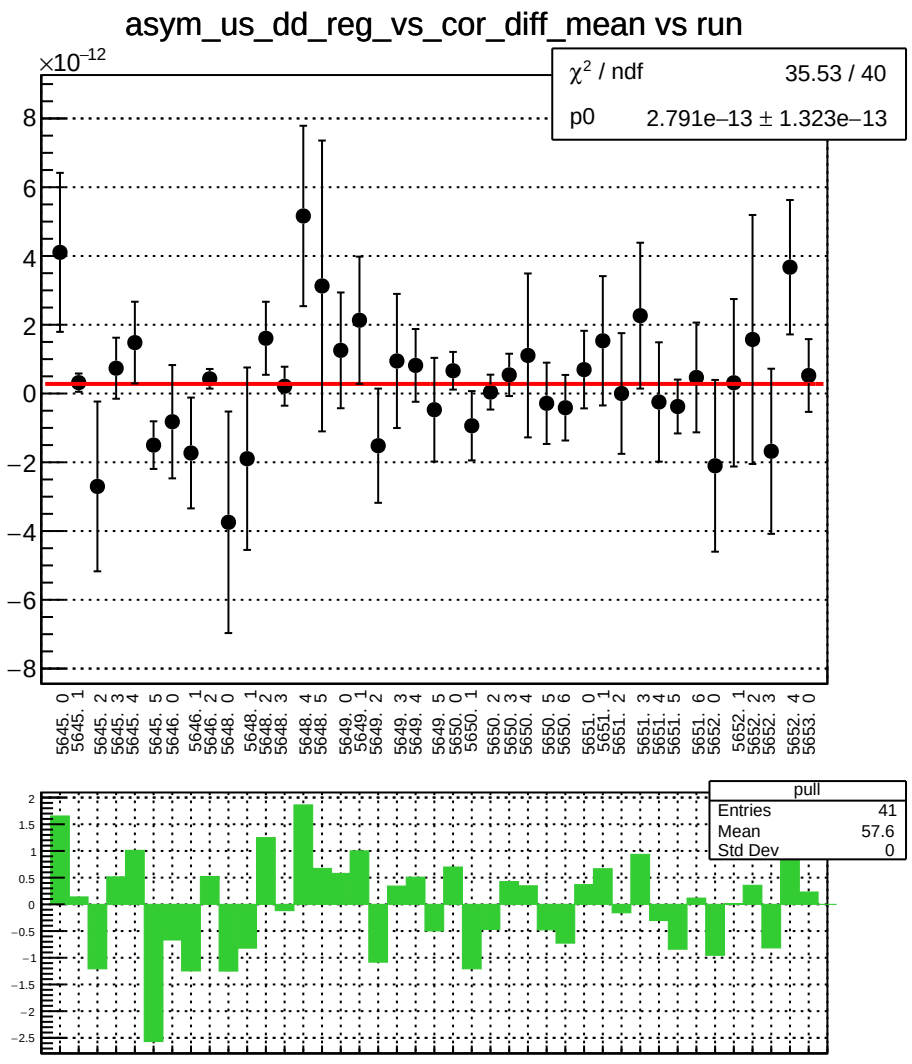

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.5 / 40
p0 1338 ± 1762
pull
Entries 41
Mean 99.09
Std Dev 0
pull1D
Entries 41
Mean −0.007525
Std Dev 1.018

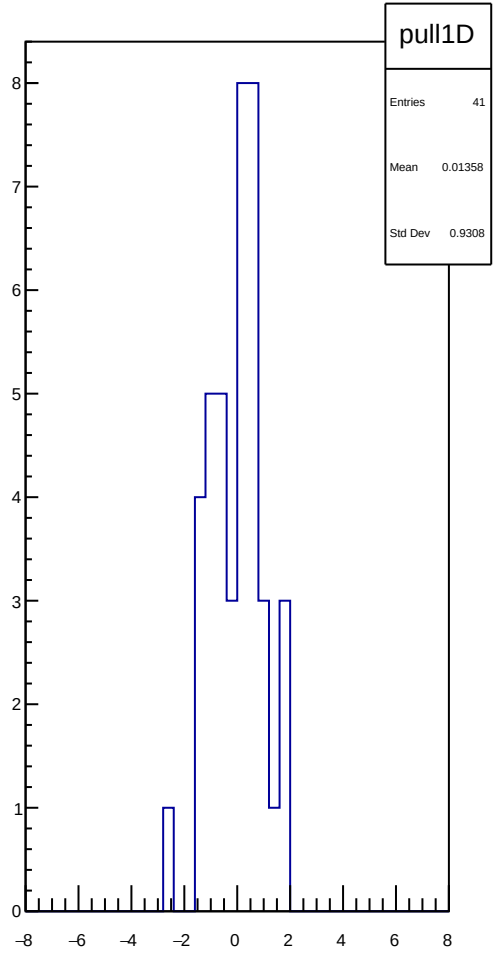

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2316 / 40
p0 1106 ± 1.246
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

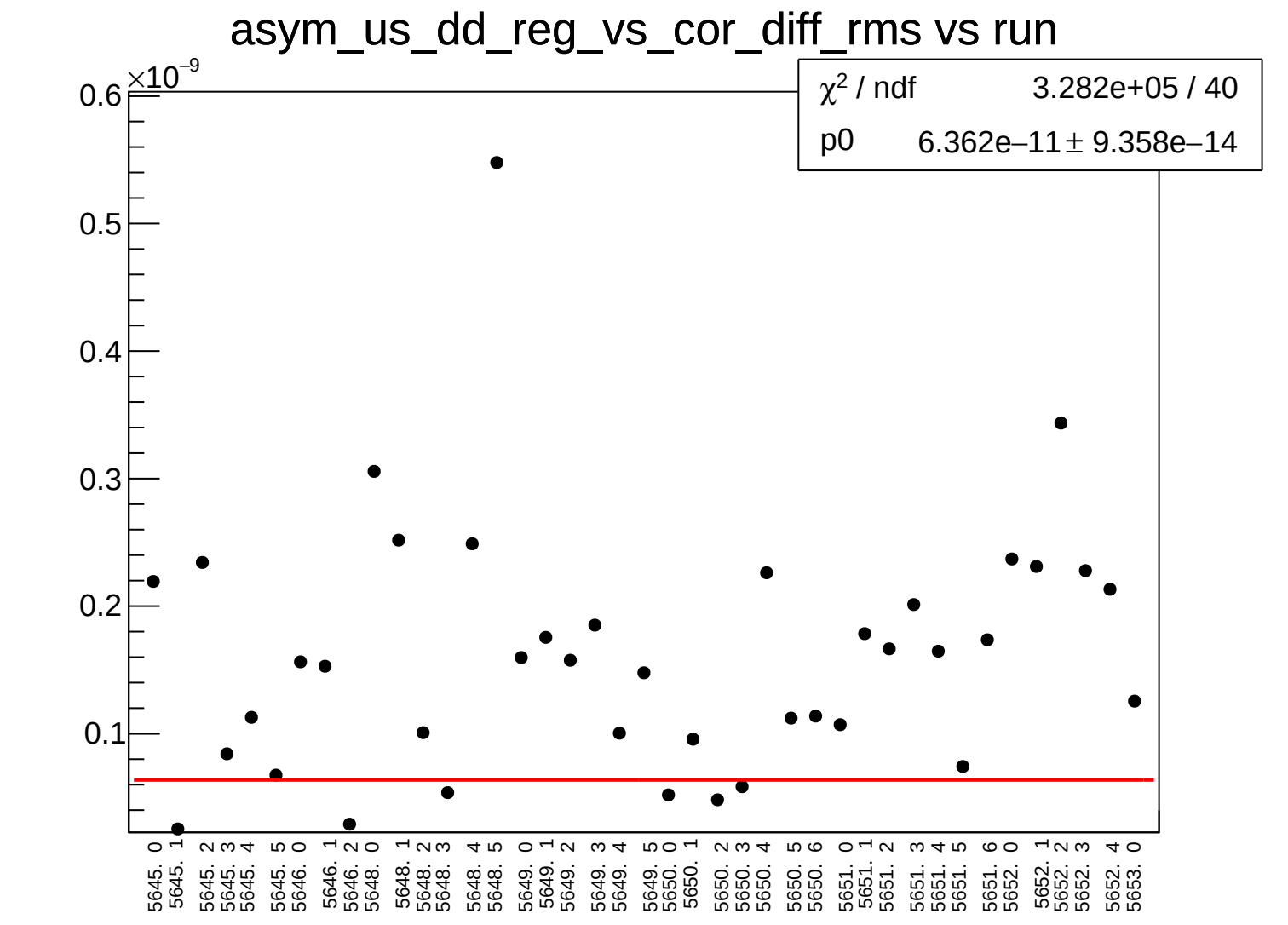

asym_us_dd_mean vs run
χ² / ndf 38.06 / 40
p0 −3099 ± 2135
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −290.9
Std Dev 0
2
1
0
−1
−2
−3

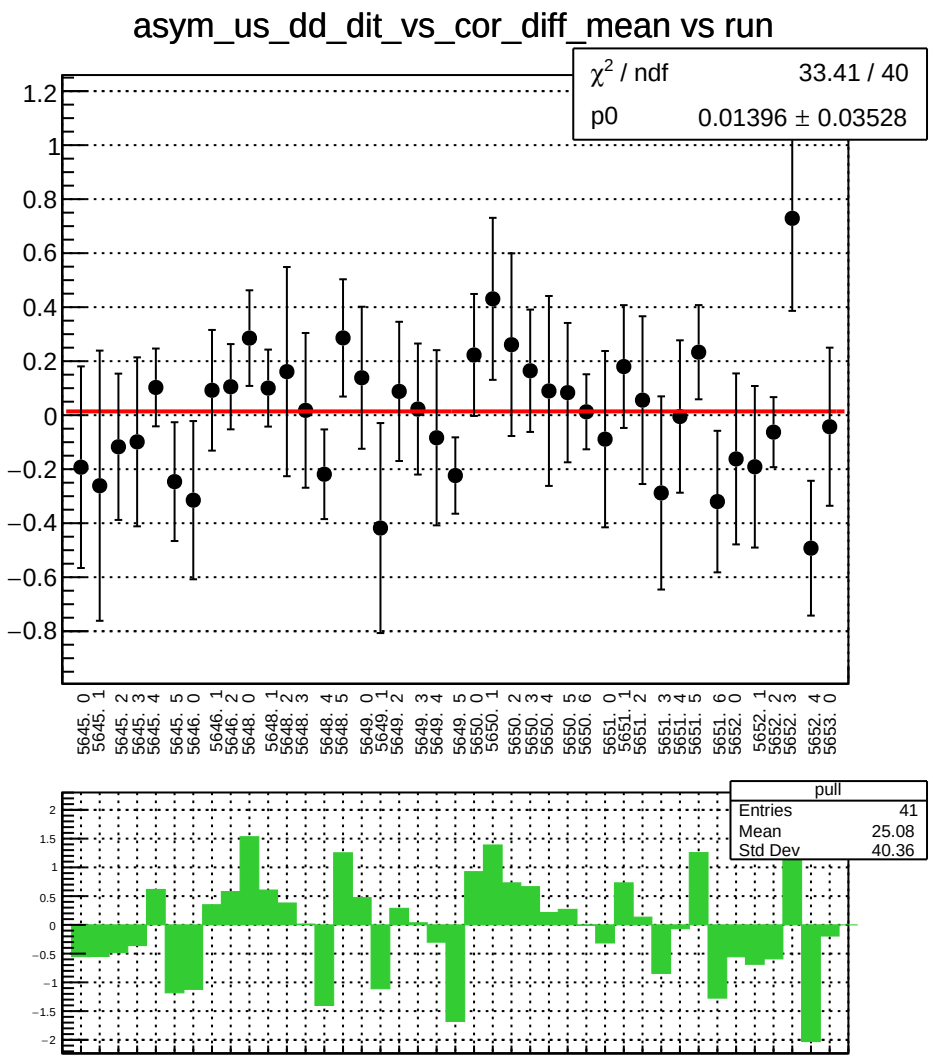

pull1D
Entries 41
Mean 0.006265
Std Dev 0.9634
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

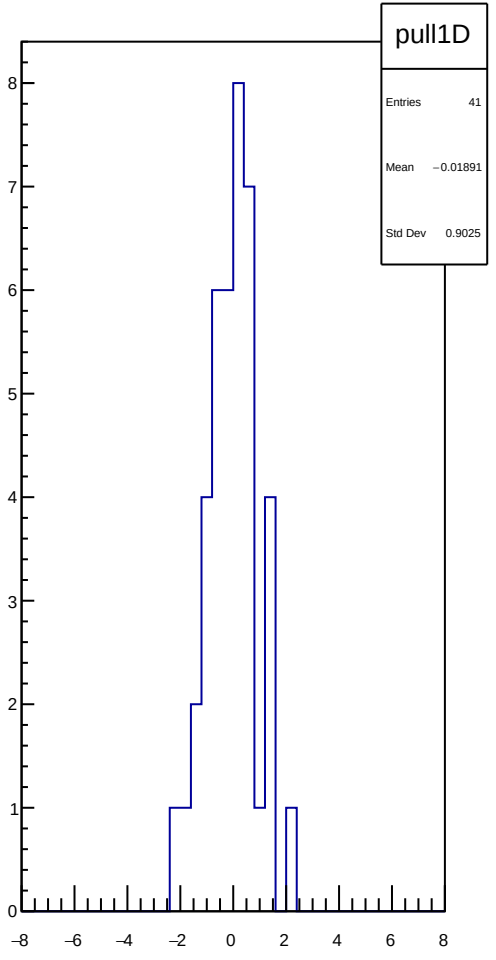

asym_us_dd_rms vs run
χ² / ndf 1047 / 40
p0 1341 ± 1.51
1500
1450
1400
1350
1300
1250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

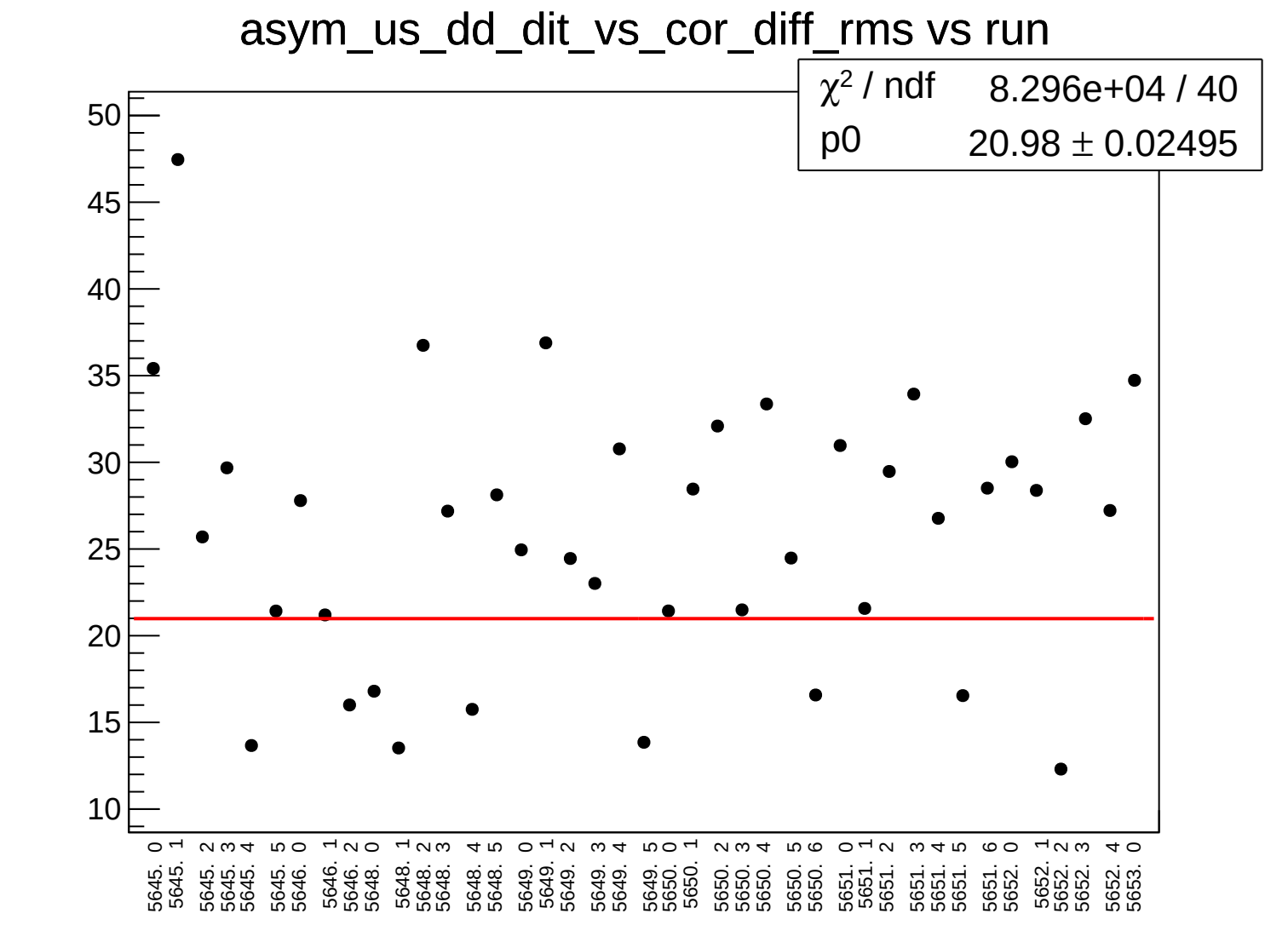

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.53 / 40
p0 2.791e−13 ± 1.323e−13
pull
Entries 41
Mean 57.6
Std Dev 0

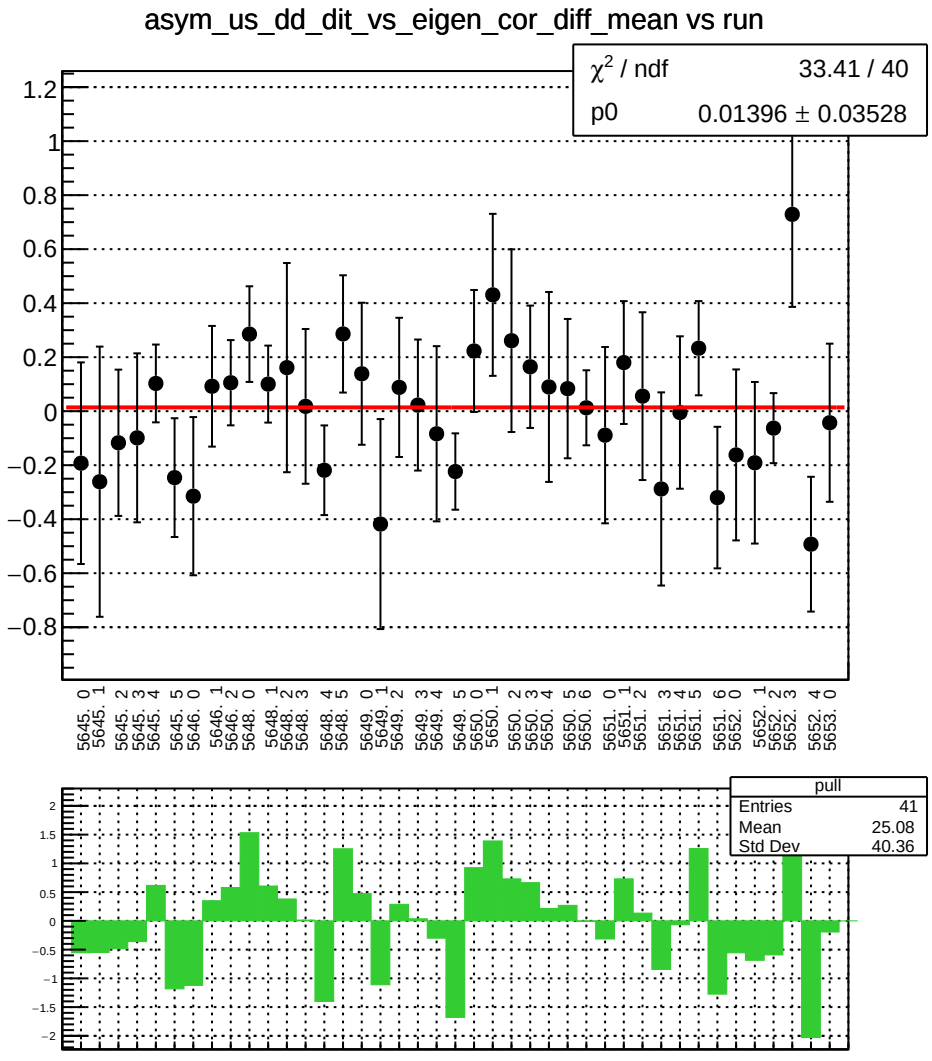

pull1D
Entries 41
Mean 0.01358
Std Dev 0.9308

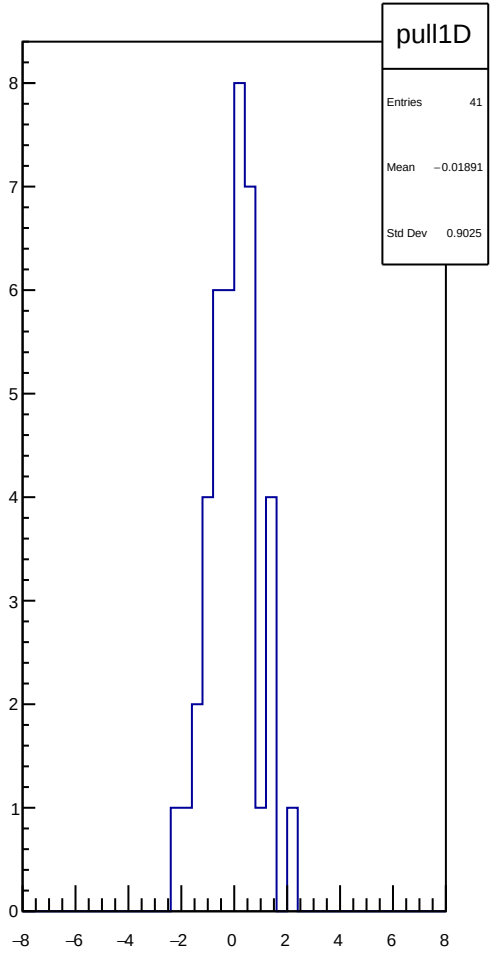

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.282e+05 / 40
p0 6.362e−11 ± 9.358e−14
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

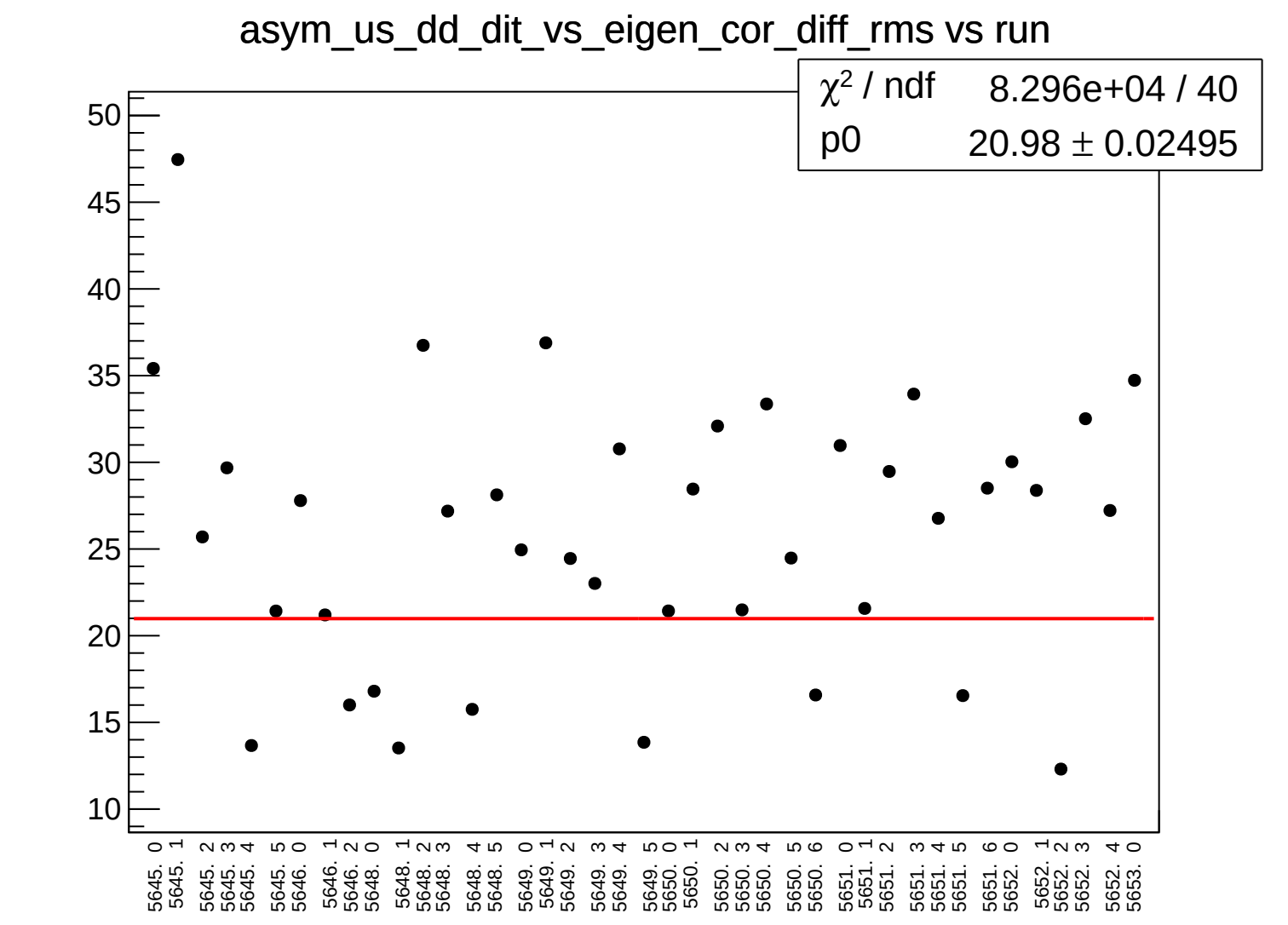

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.41 / 40
p0 0.01396 ± 0.03528
pull
Entries 41
Mean 25.08
Std Dev 40.36

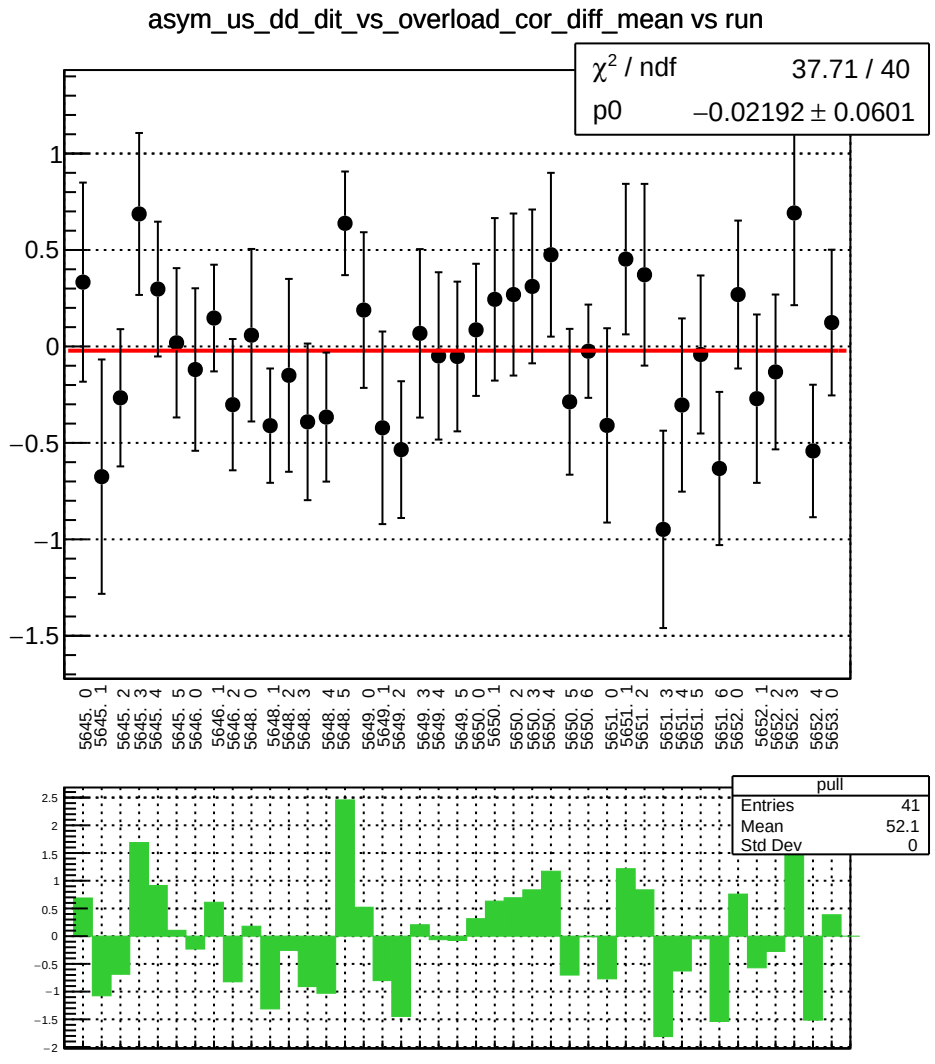

pull1D
Entries 41
Mean −0.01891
Std Dev 0.9025

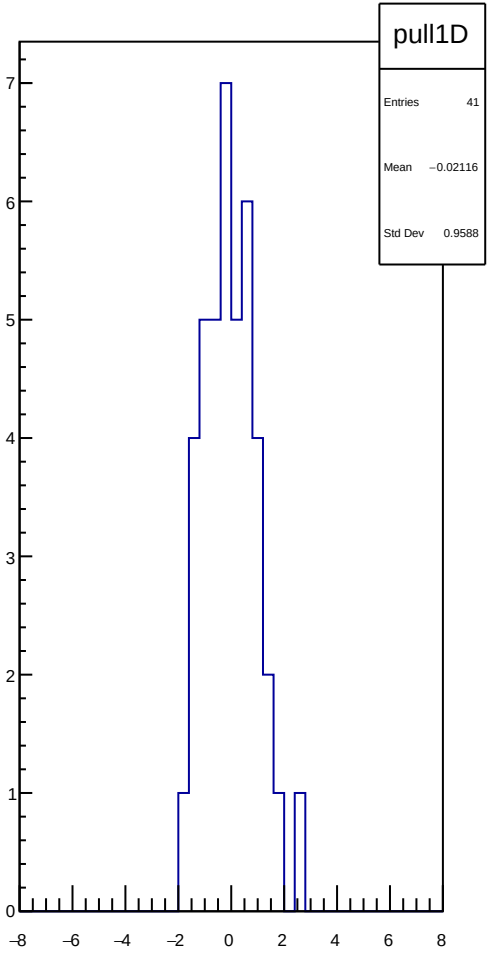

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.296e+04 / 40
p0 20.98 ± 0.02495
50
45
40
35
30
25
20
15
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

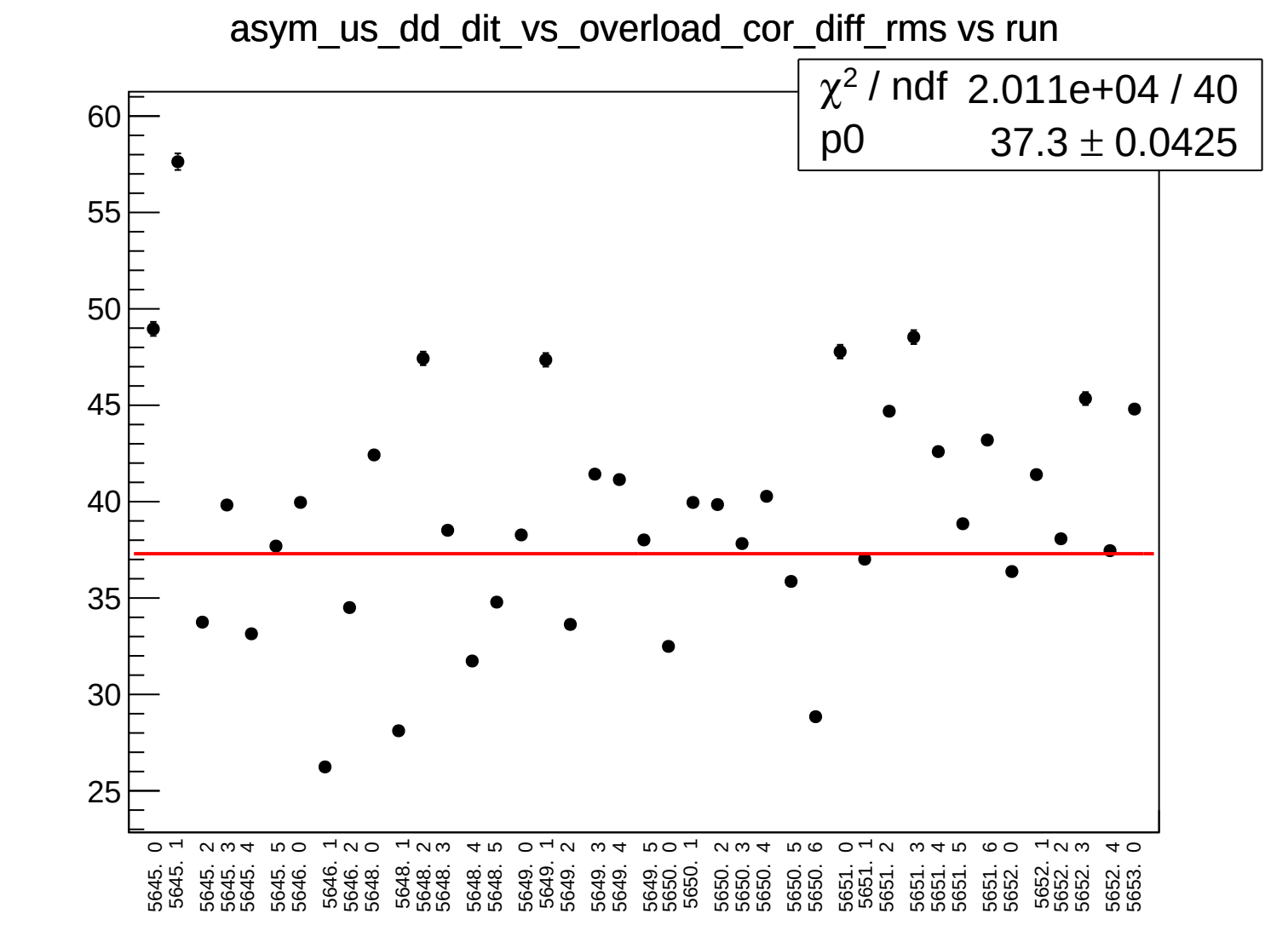

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.41 / 40
p0 0.01396 ± 0.03528
pull
Entries 41
Mean 25.08
Std Dev 40.36

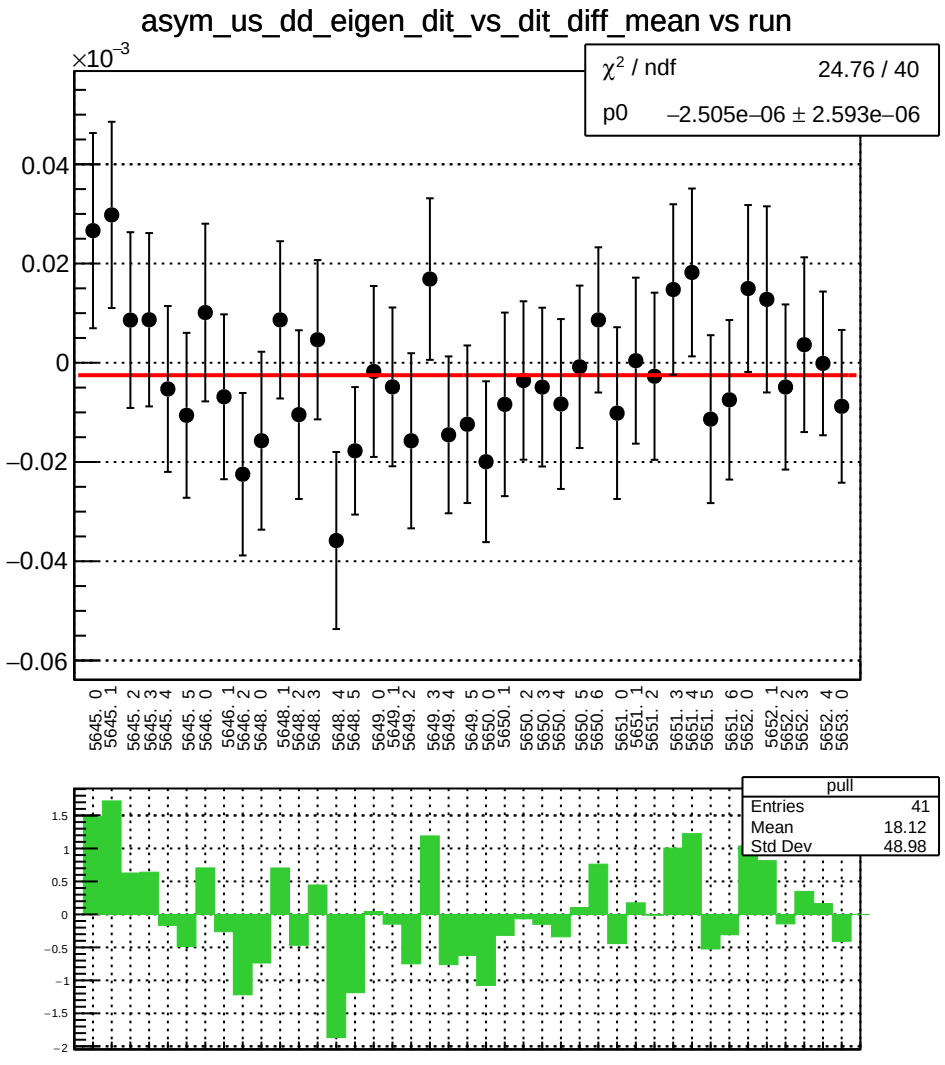

pull1D
Entries 41
Mean −0.01891
Std Dev 0.9025

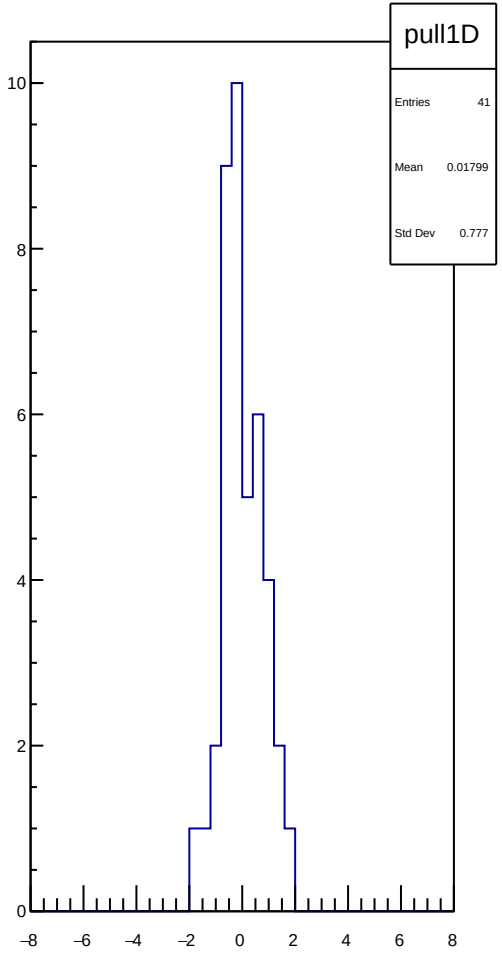

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.296e+04 / 40
p0 20.98 ± 0.02495
50
45
40
35
30
25
20
15
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

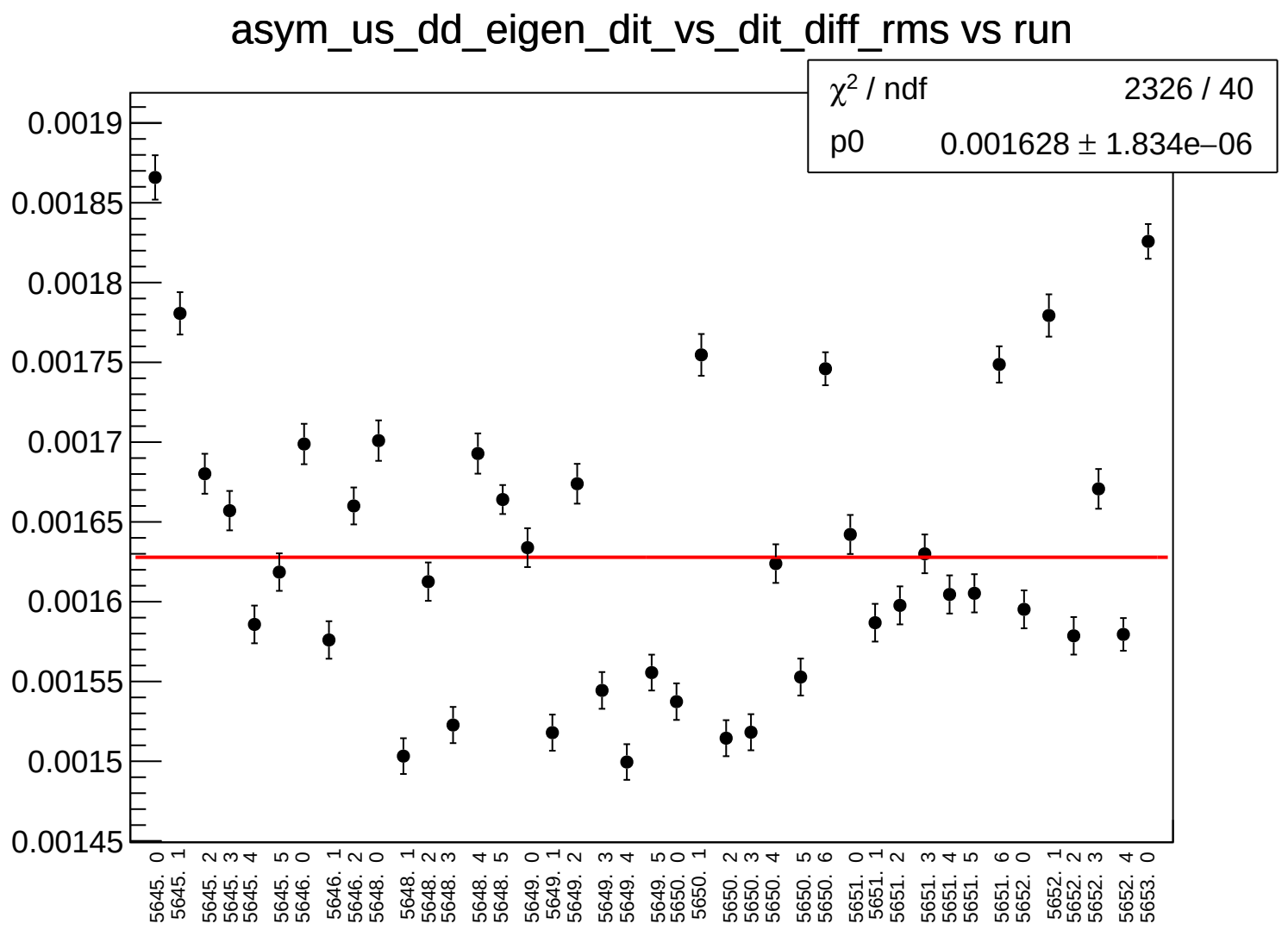

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.71 / 40
p0 −0.02192 ± 0.0601
pull
Entries 41
Mean 52.1
Std Dev 0

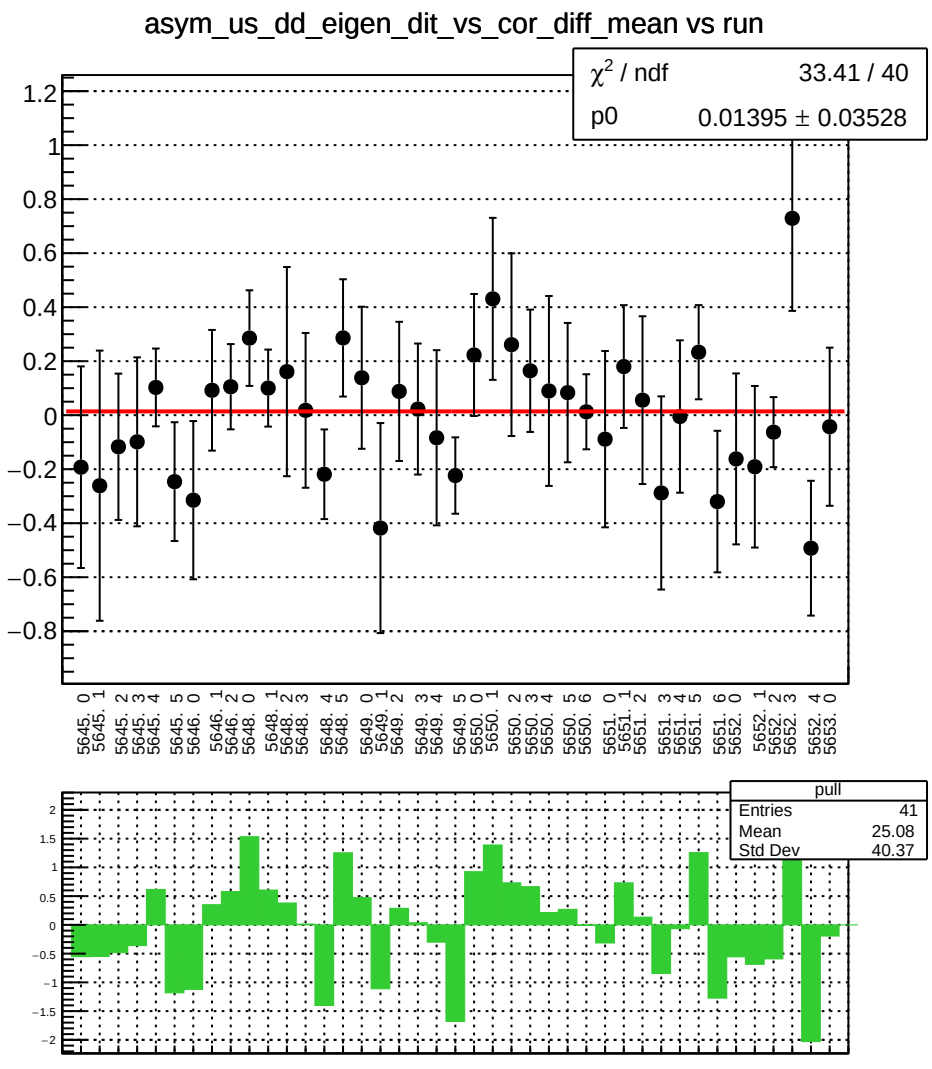

pull1D
Entries 41
Mean −0.02116
Std Dev 0.9588

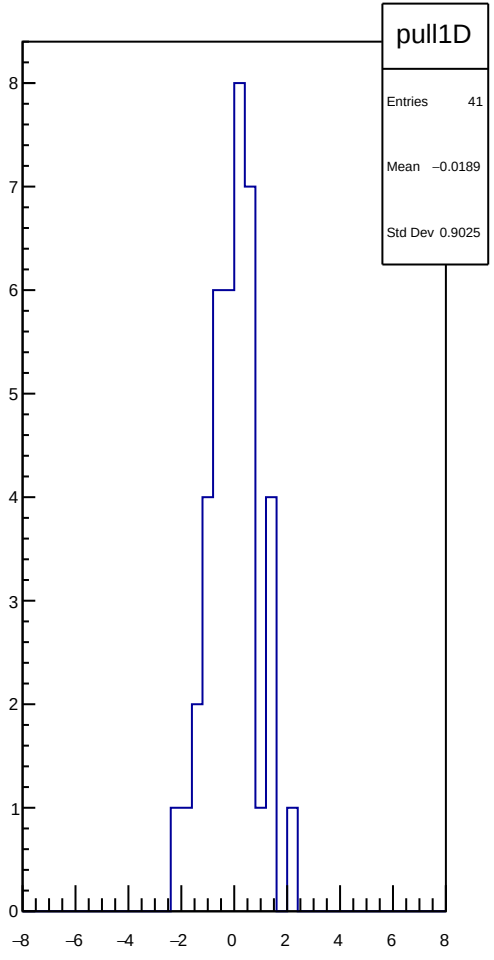

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.011e+04 / 40
p0 37.3 ± 0.0425
60
55
50
45
40
35
30
25
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

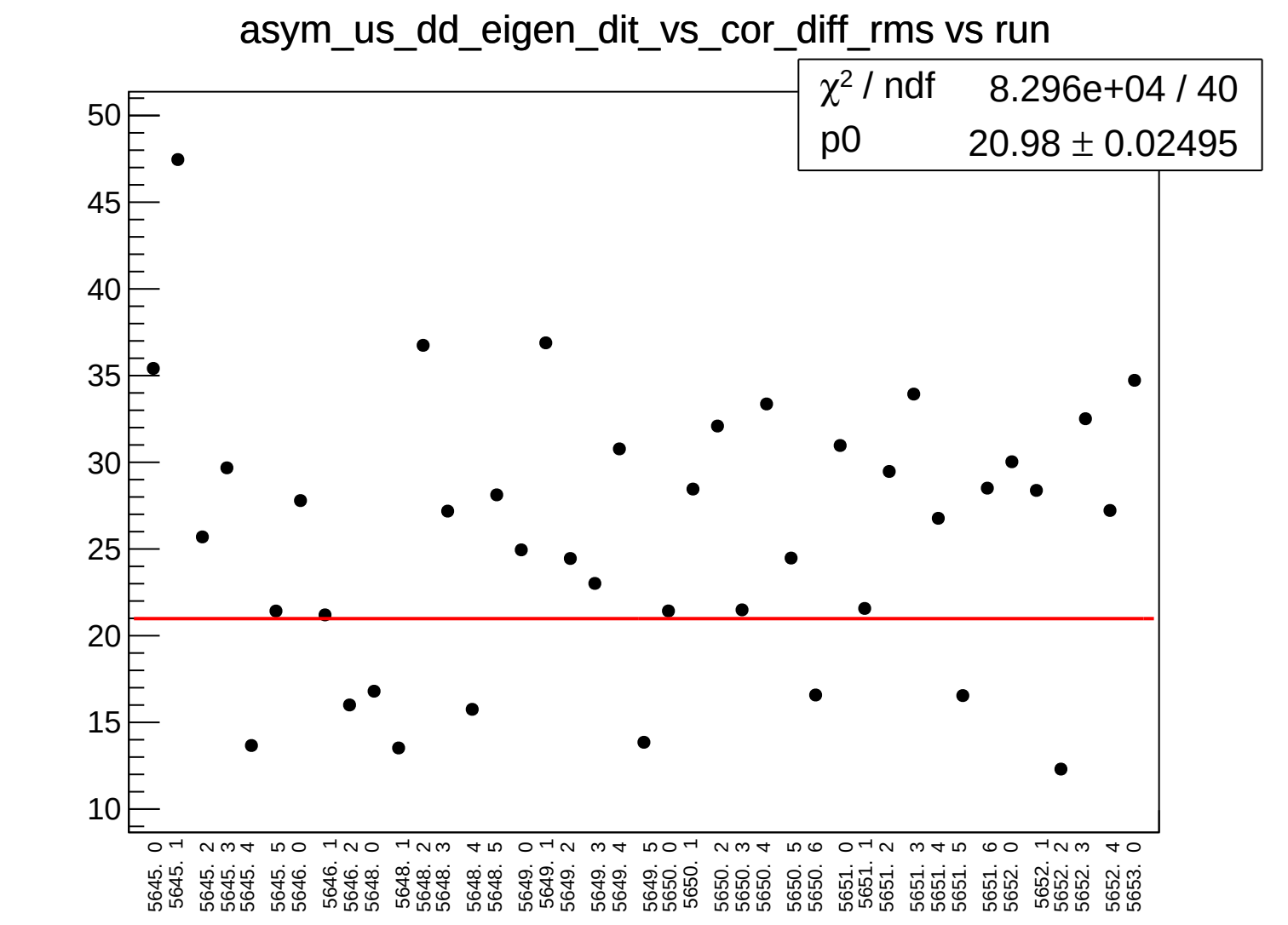

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 24.76 / 40
p0 −2.505e−06 ± 2.593e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.12
Std Dev 48.98
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.01799
Std Dev 0.777
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

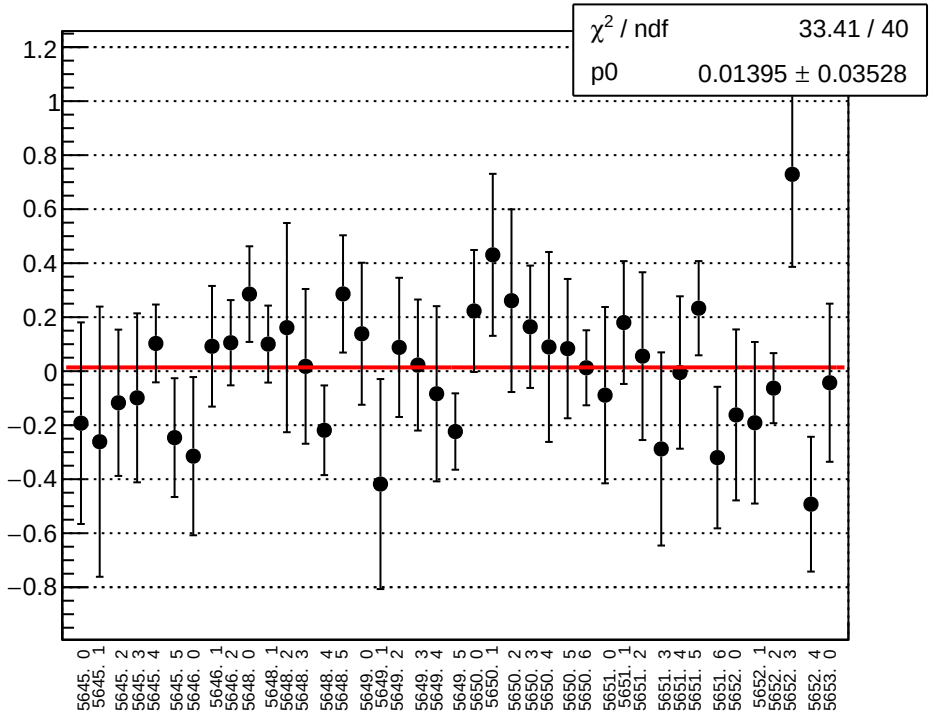

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2326 / 40
p0 0.001628 ± 1.834e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

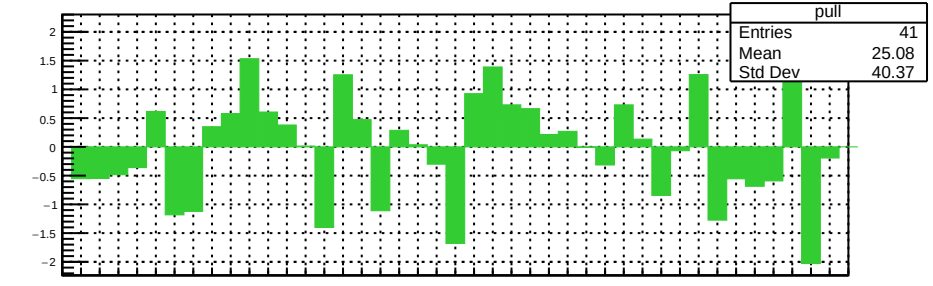

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.41 / 40
p0 0.01395 ± 0.03528
pull
Entries 41
Mean 25.08
Std Dev 40.37

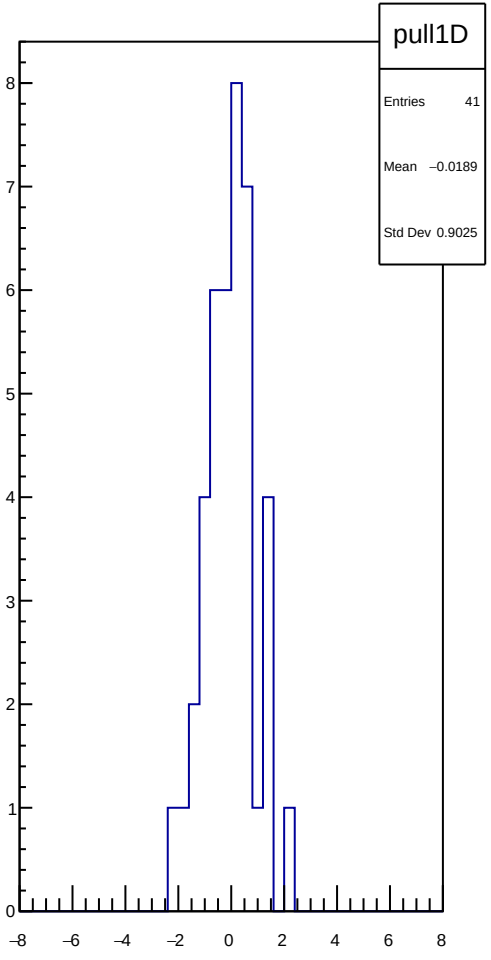

pull1D
Entries 41
Mean −0.0189
Std Dev 0.9025

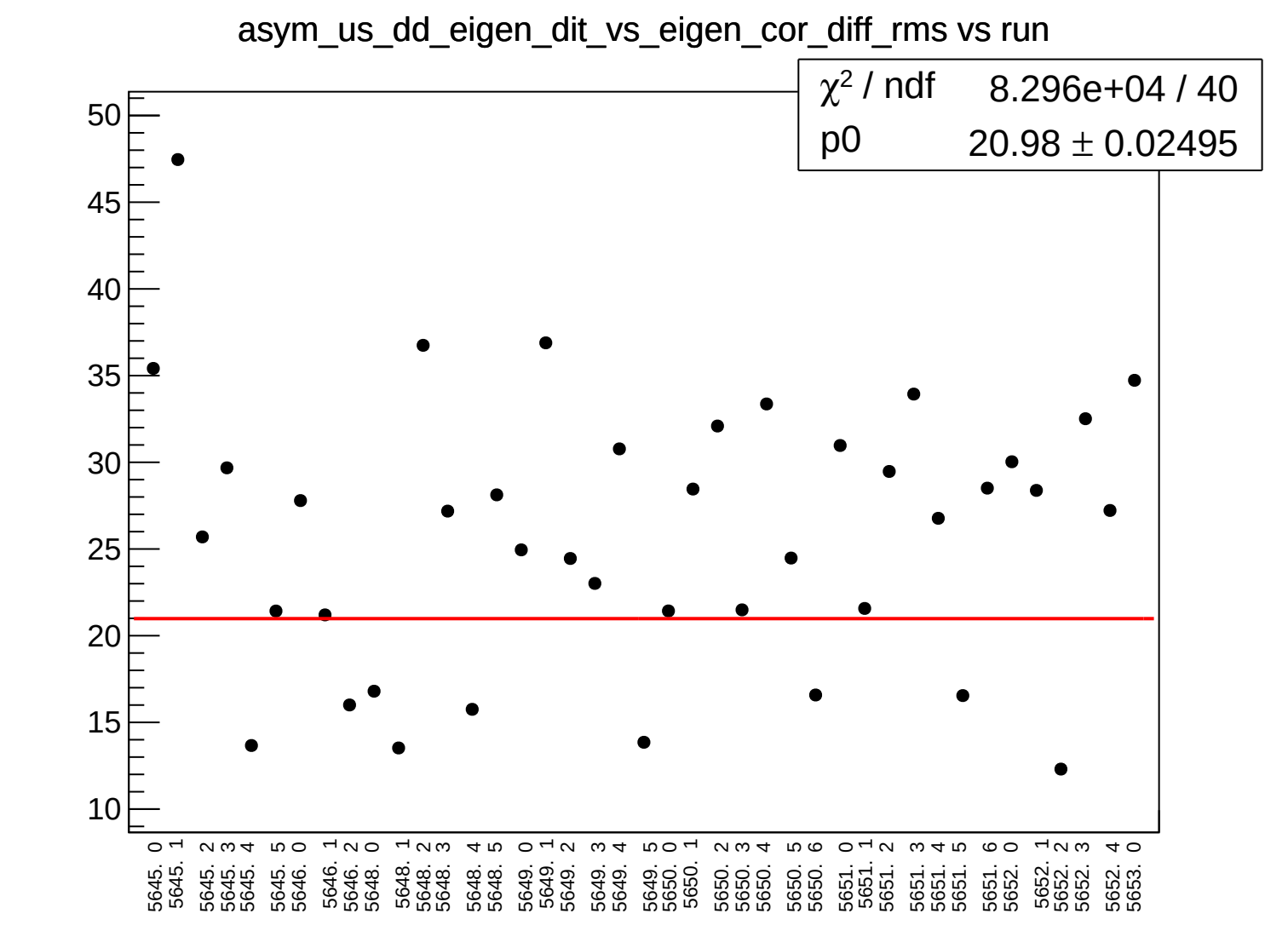

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.296e+04 / 40
p0 20.98 ± 0.02495
50
45
40
35
30
25
20
15
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

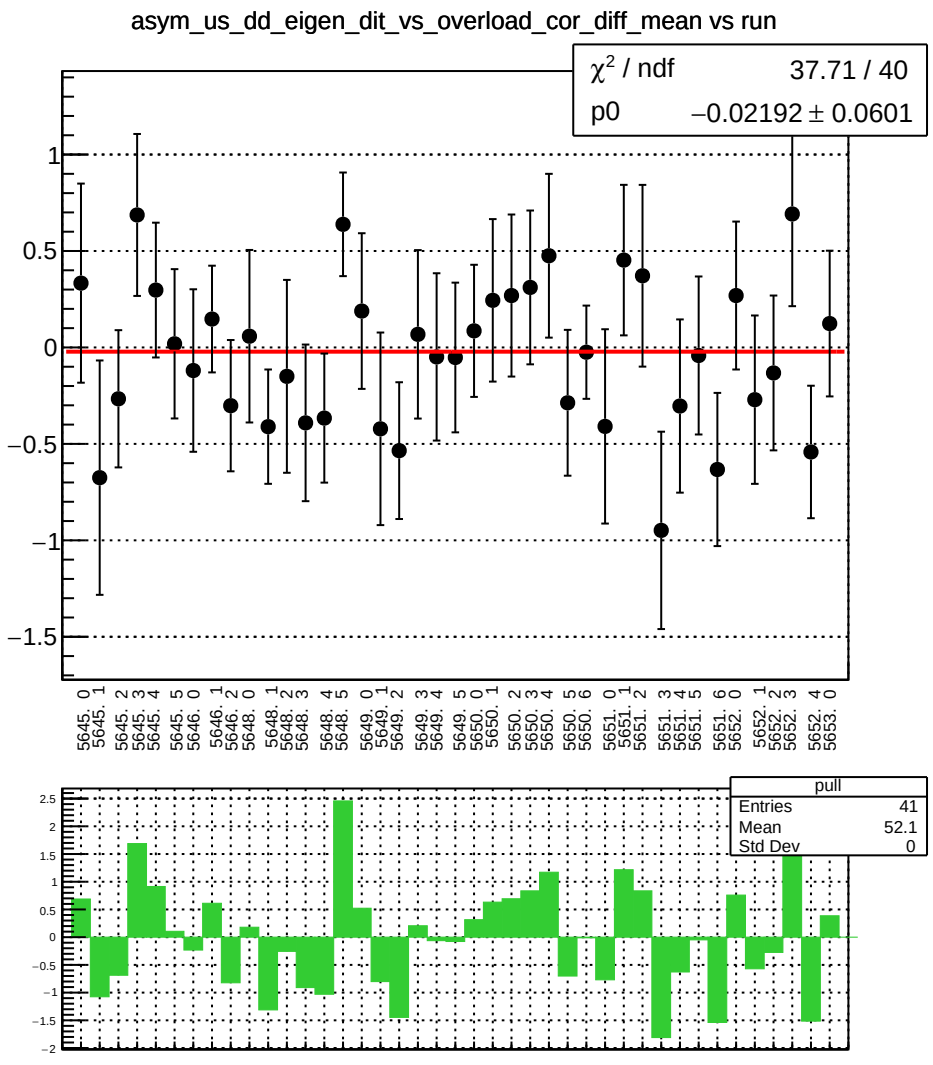
asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

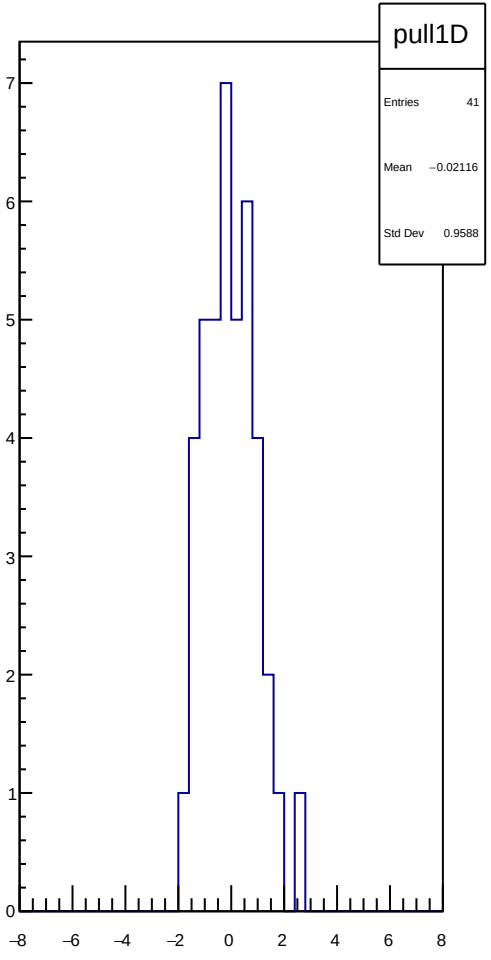


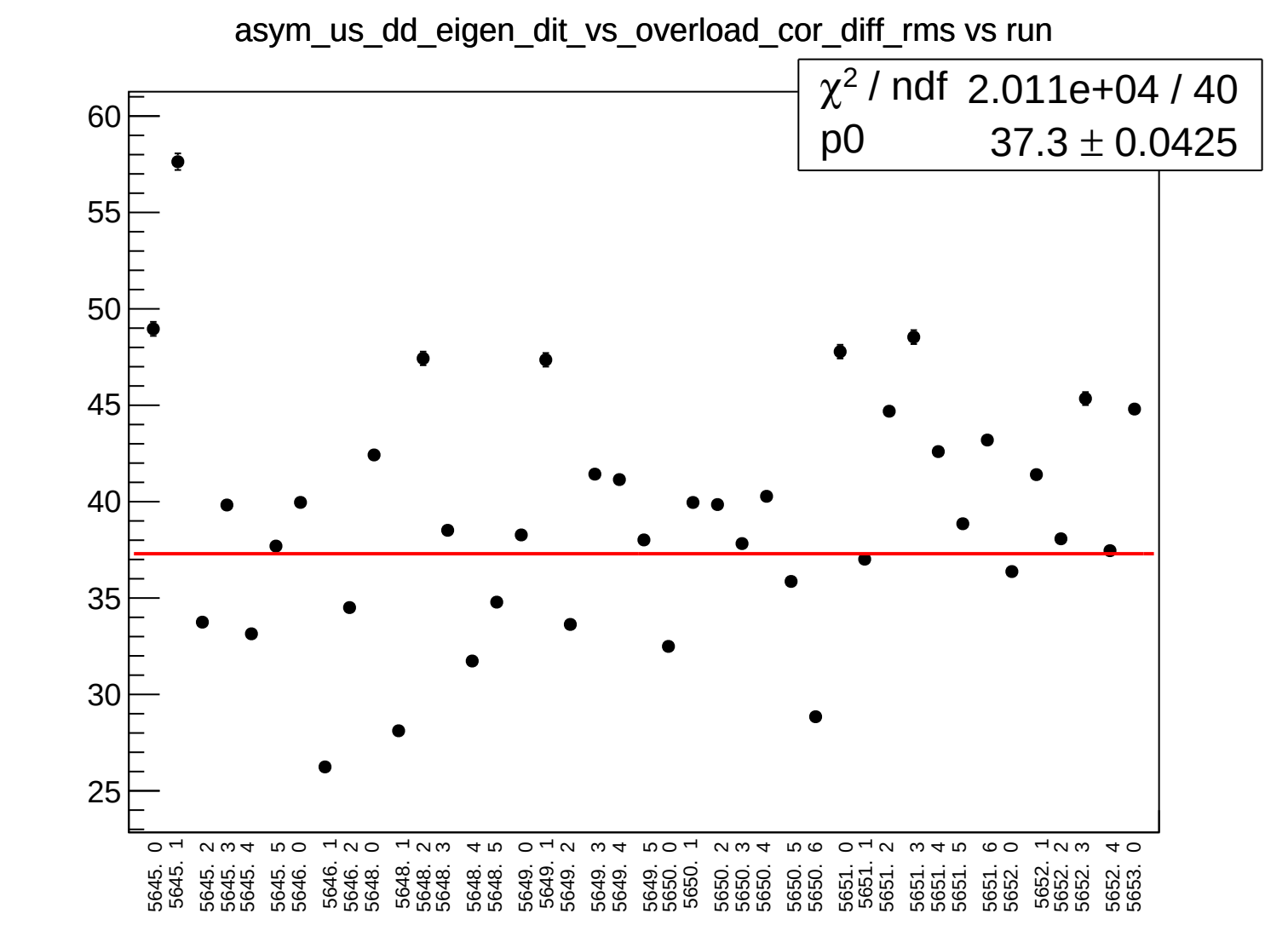


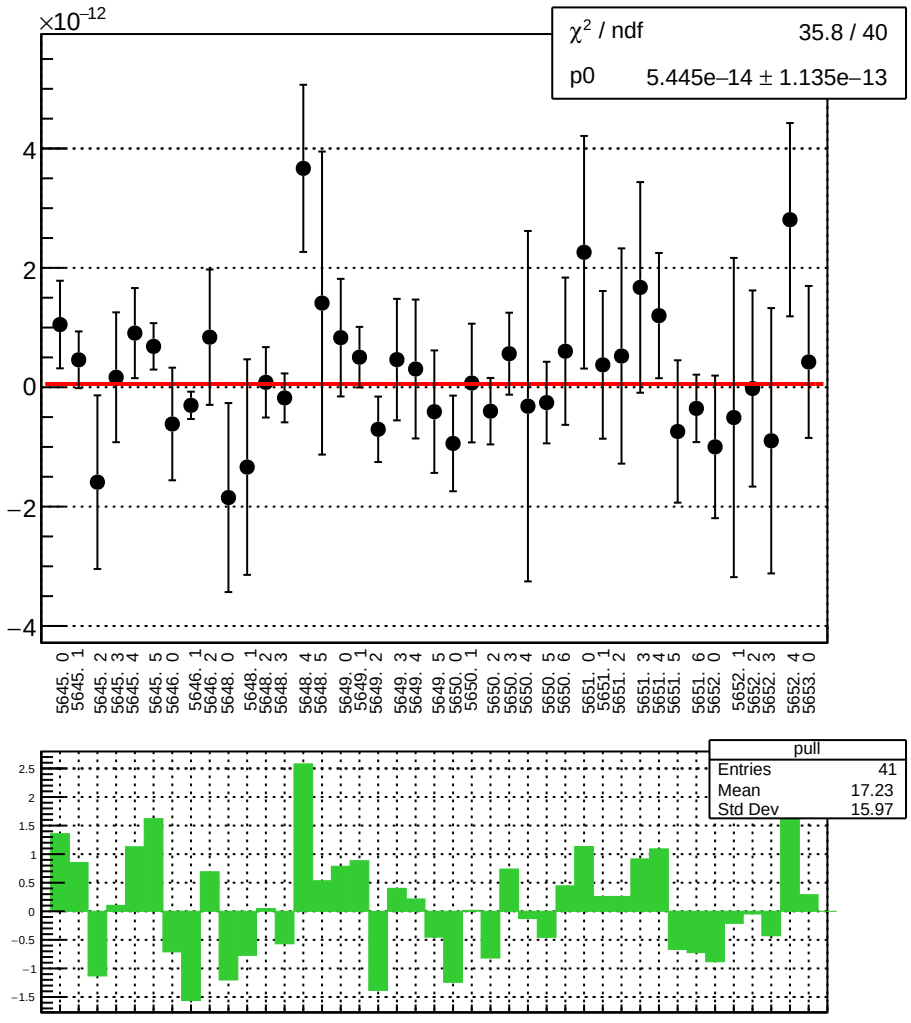


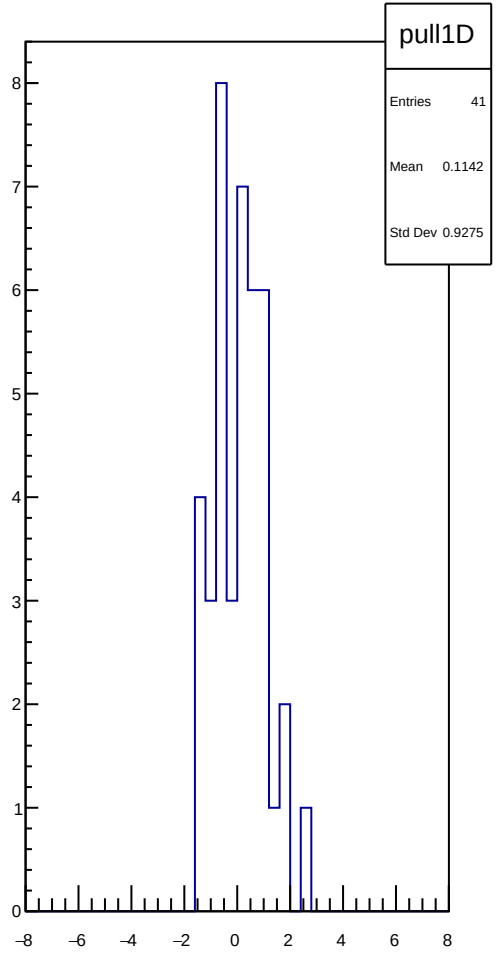

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.296e+04 / 40
p0 20.98 ± 0.02495
50
45
40
35
30
25
20
15
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

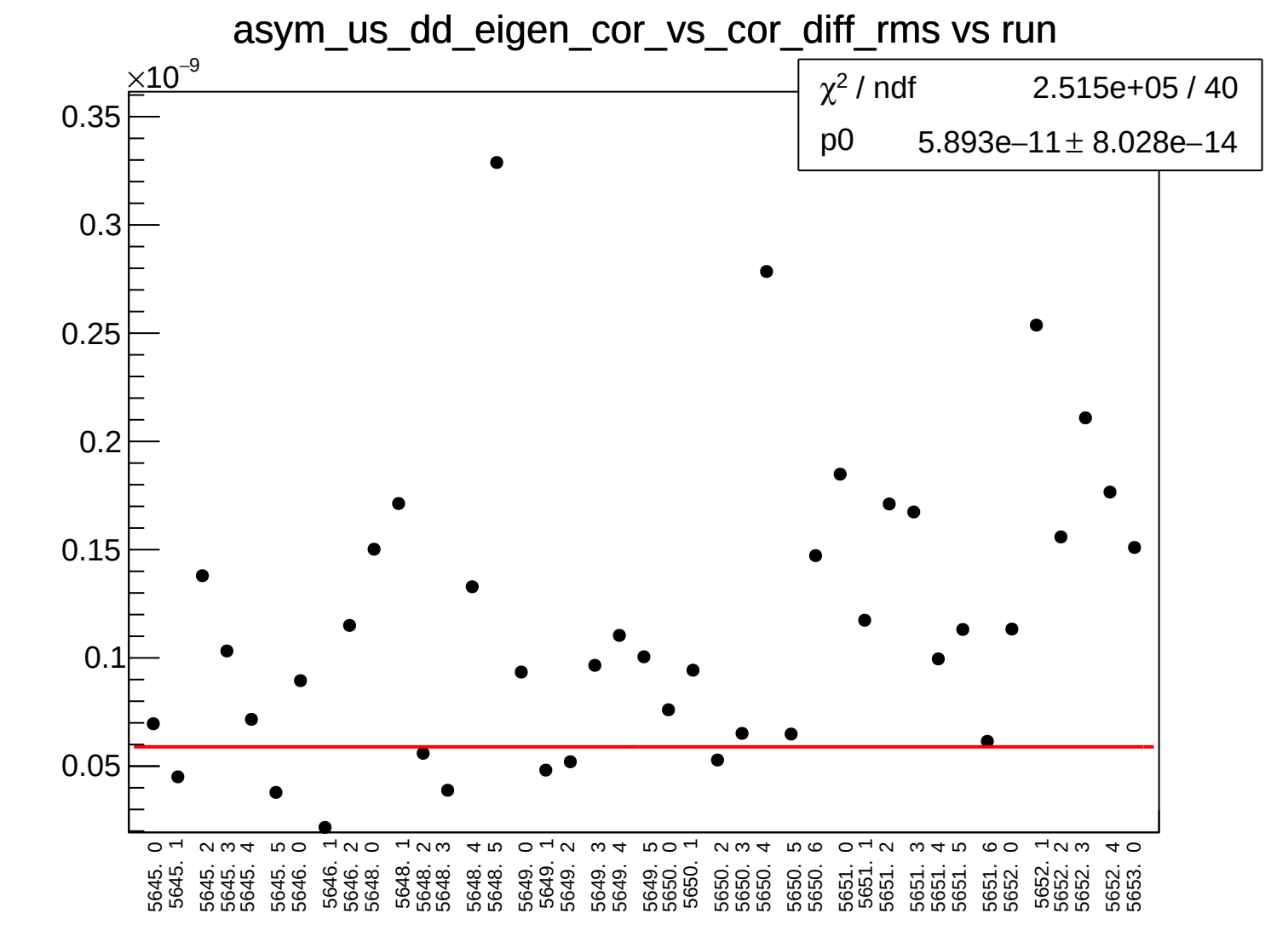

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.71 / 40
p0 −0.02192 ± 0.0601
pull
Entries 41
Mean 52.1
Std Dev 0

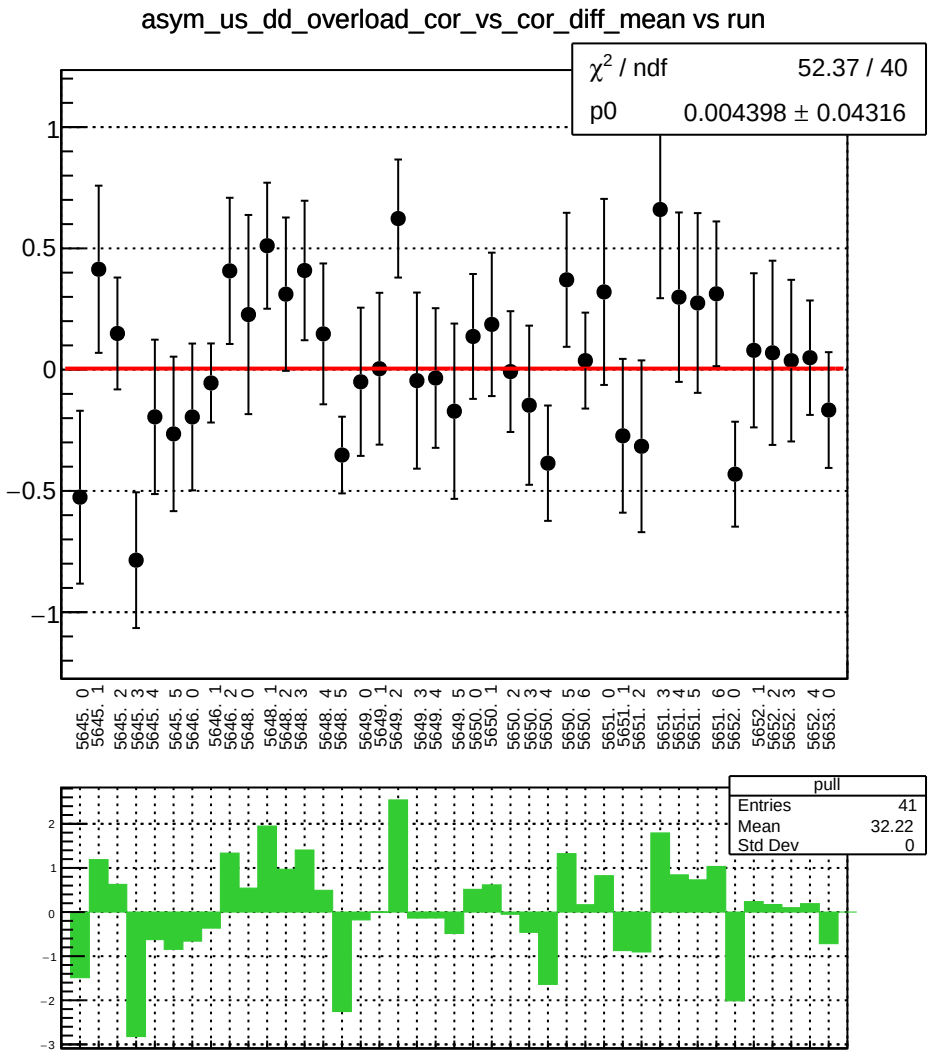

pull1D
Entries 41
Mean −0.02116
Std Dev 0.9588

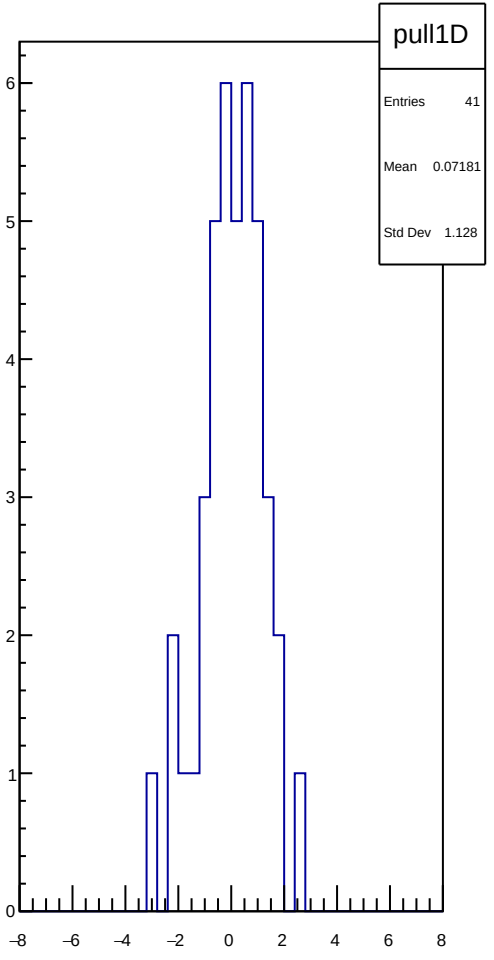

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.011e+04 / 40
p0 37.3 ± 0.0425
60
55
50
45
40
35
30
25
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

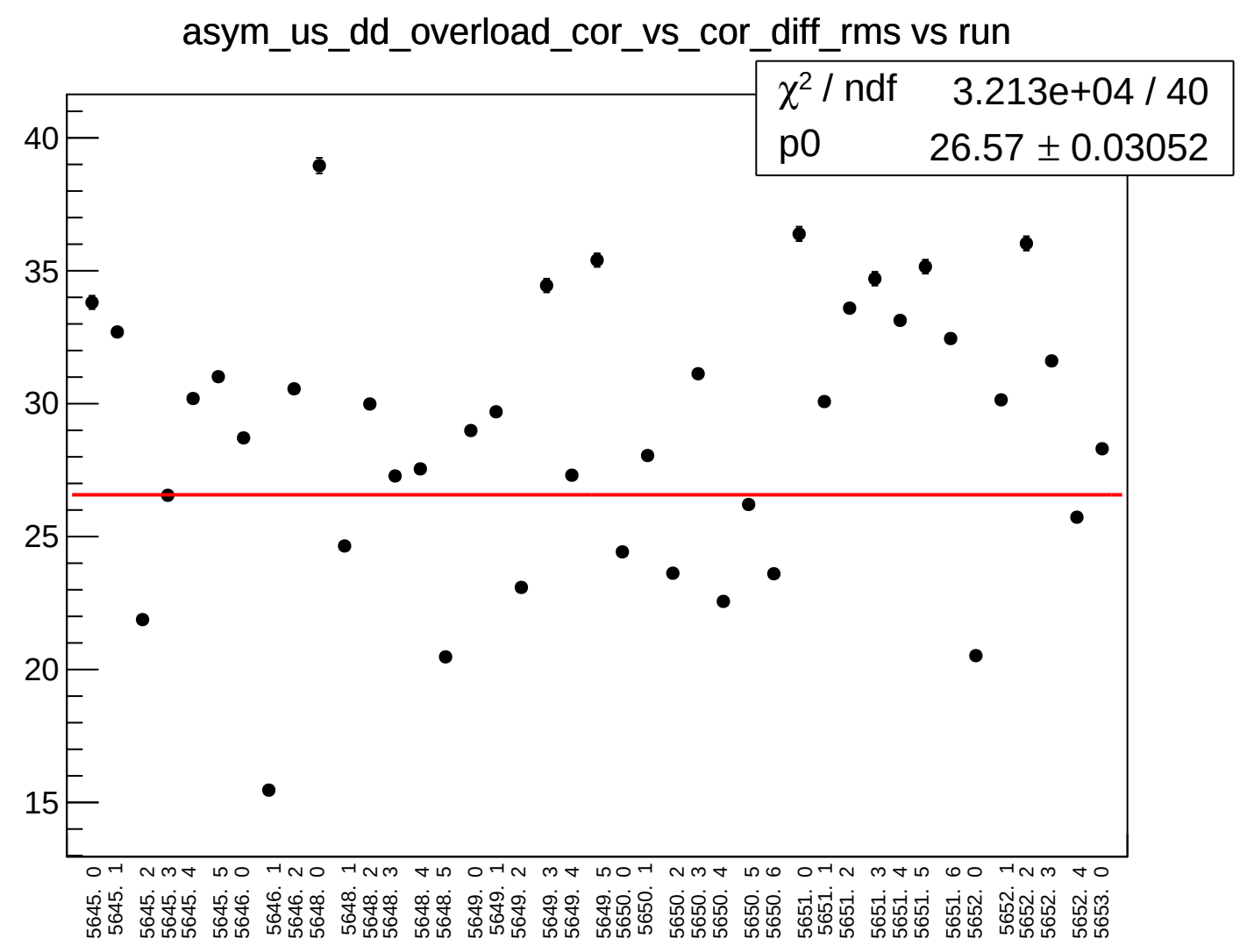

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.8 / 40
p0 5.445e−14 ± 1.135e−13
pull
Entries 41
Mean 17.23
Std Dev 15.97

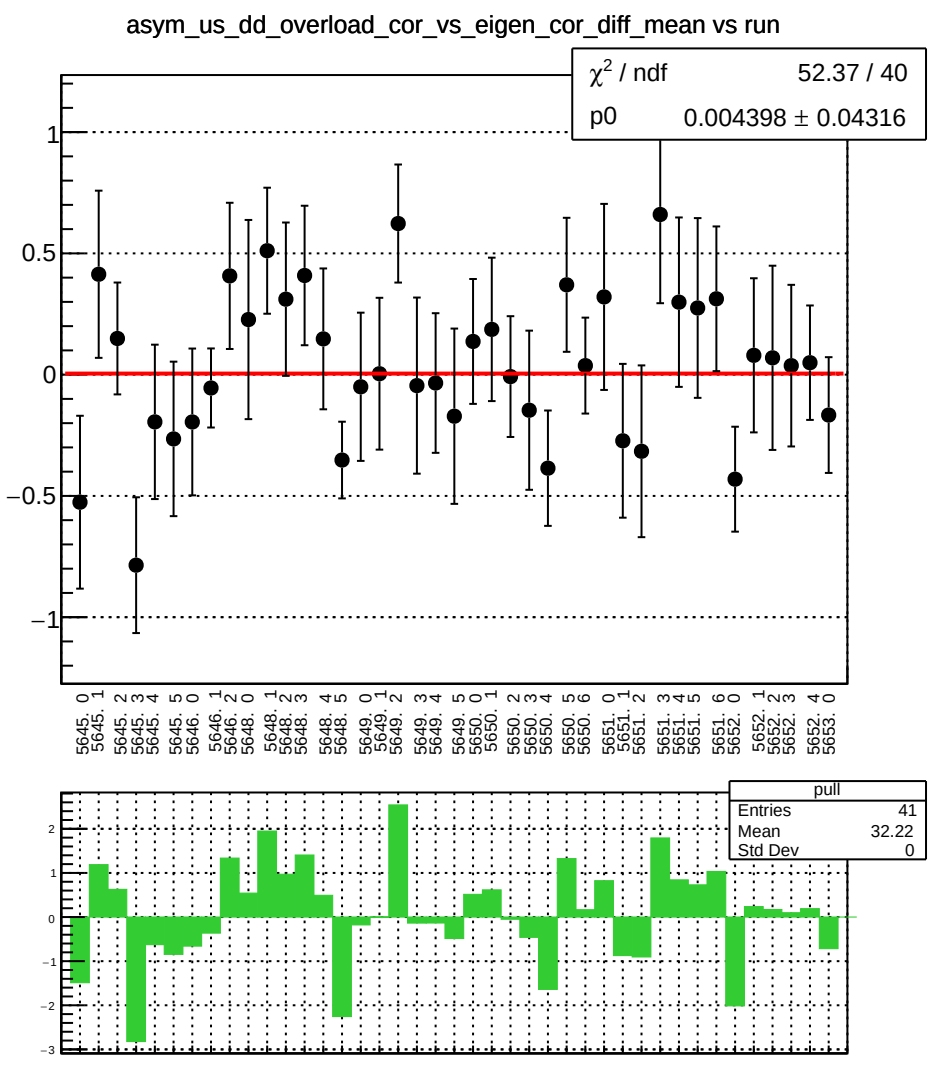

pull1D
Entries 41
Mean 0.1142
Std Dev 0.9275

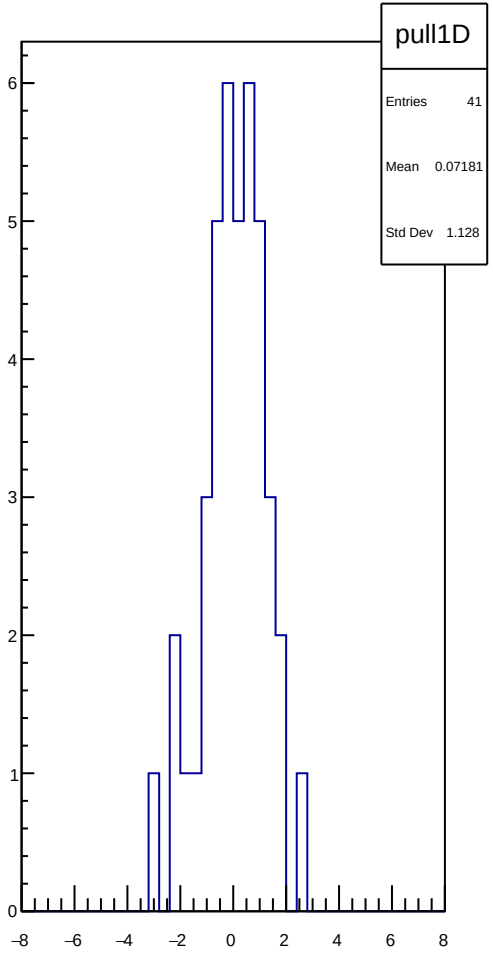

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.515e+05 / 40
p0 5.893e−11 ± 8.028e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

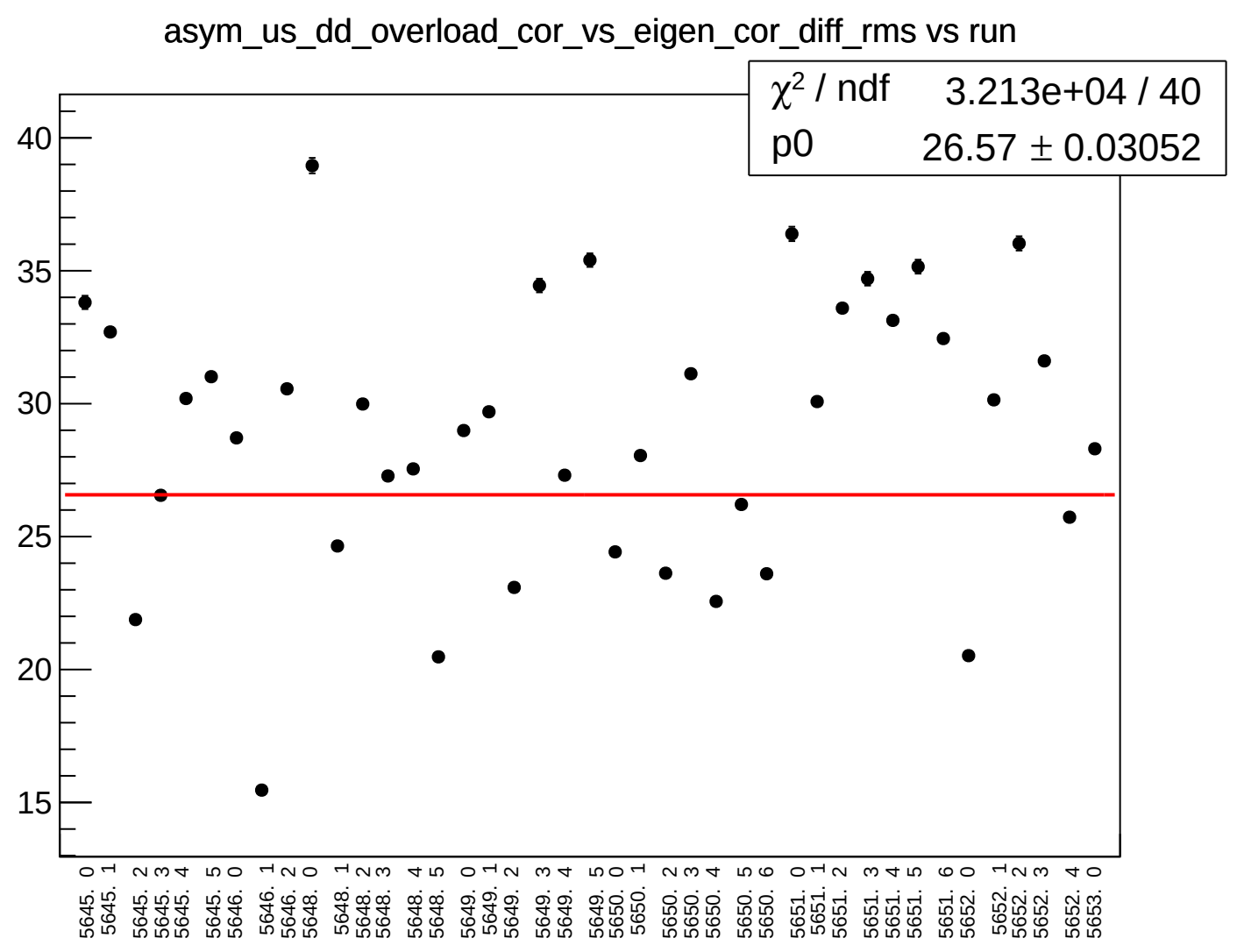

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 52.37 / 40
p0 0.004398 ± 0.04316
pull
Entries 41
Mean 32.22
Std Dev 0

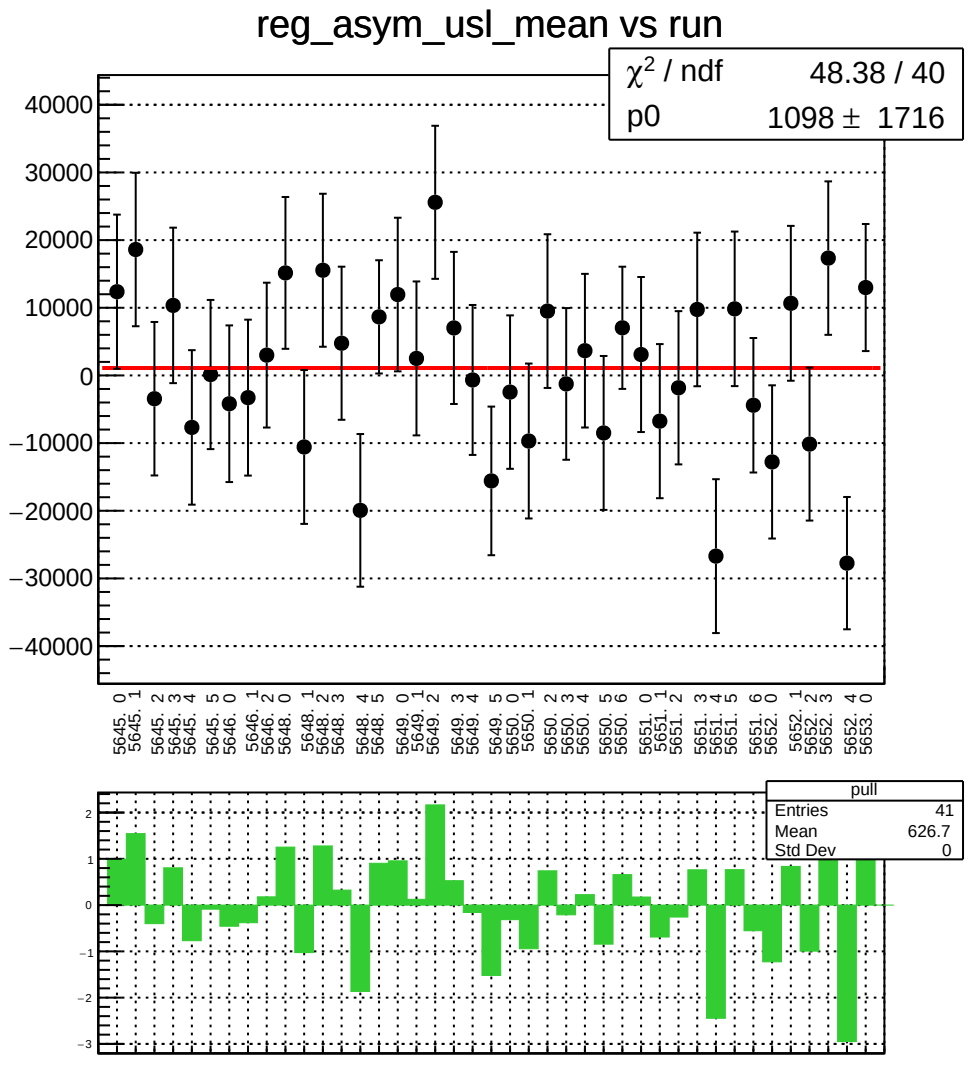

pull1D
Entries 41
Mean 0.07181
Std Dev 1.128

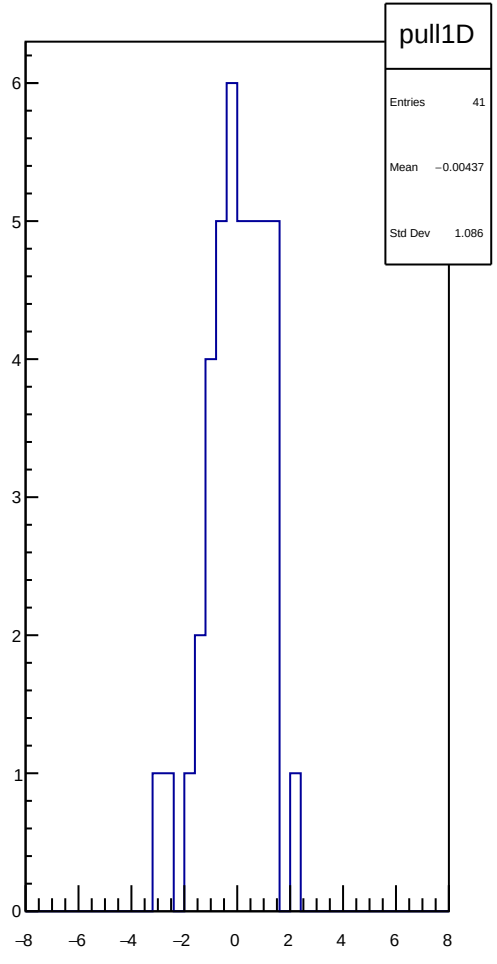

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.213e+04 / 40
p0 26.57 ± 0.03052
40
35
30
25
20
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

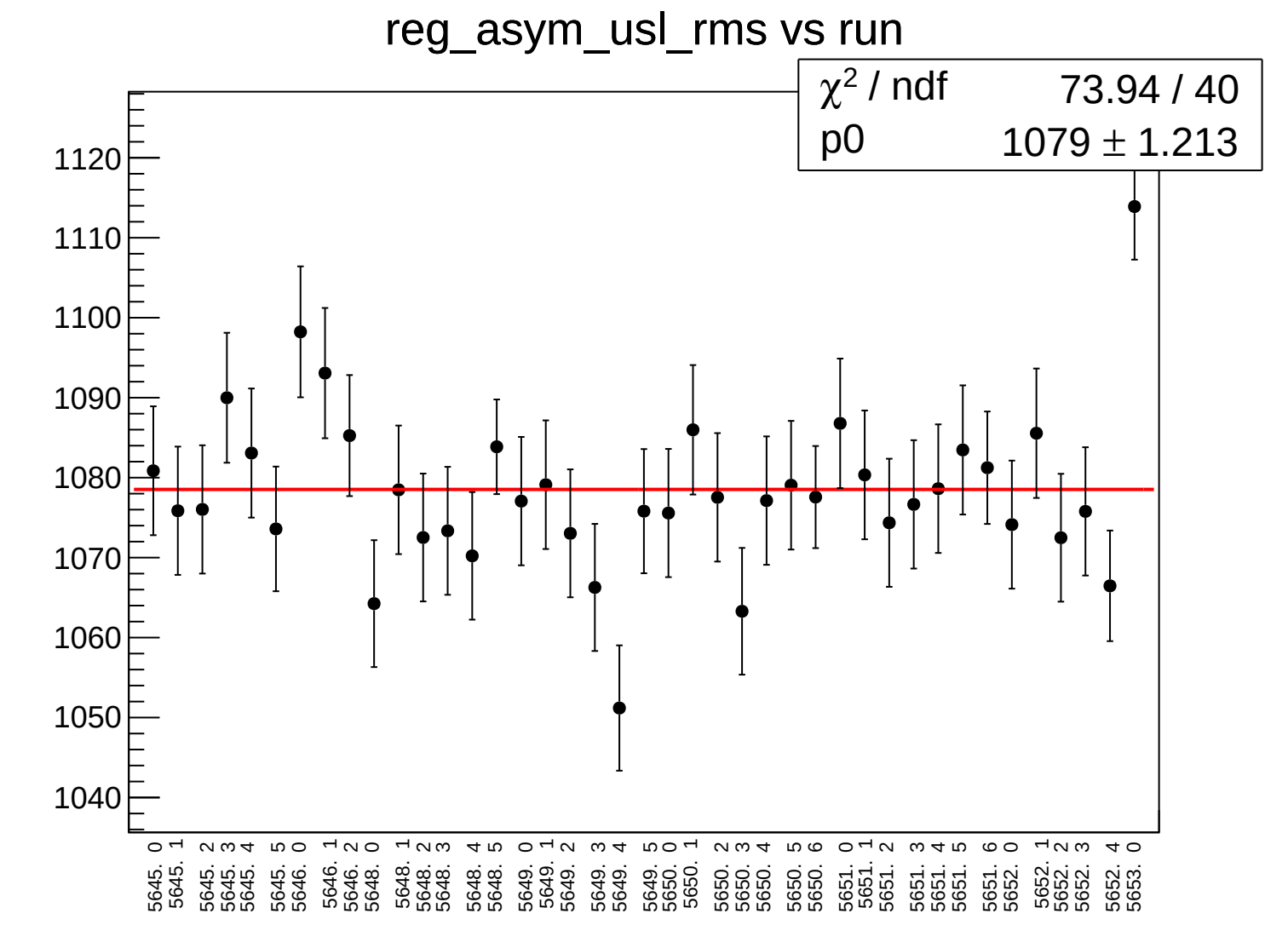

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.37 / 40
p0 0.004398 ± 0.04316
1
0.5
0
−0.5
−1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.22
Std Dev 0
2
1
0
−1
−2
−3

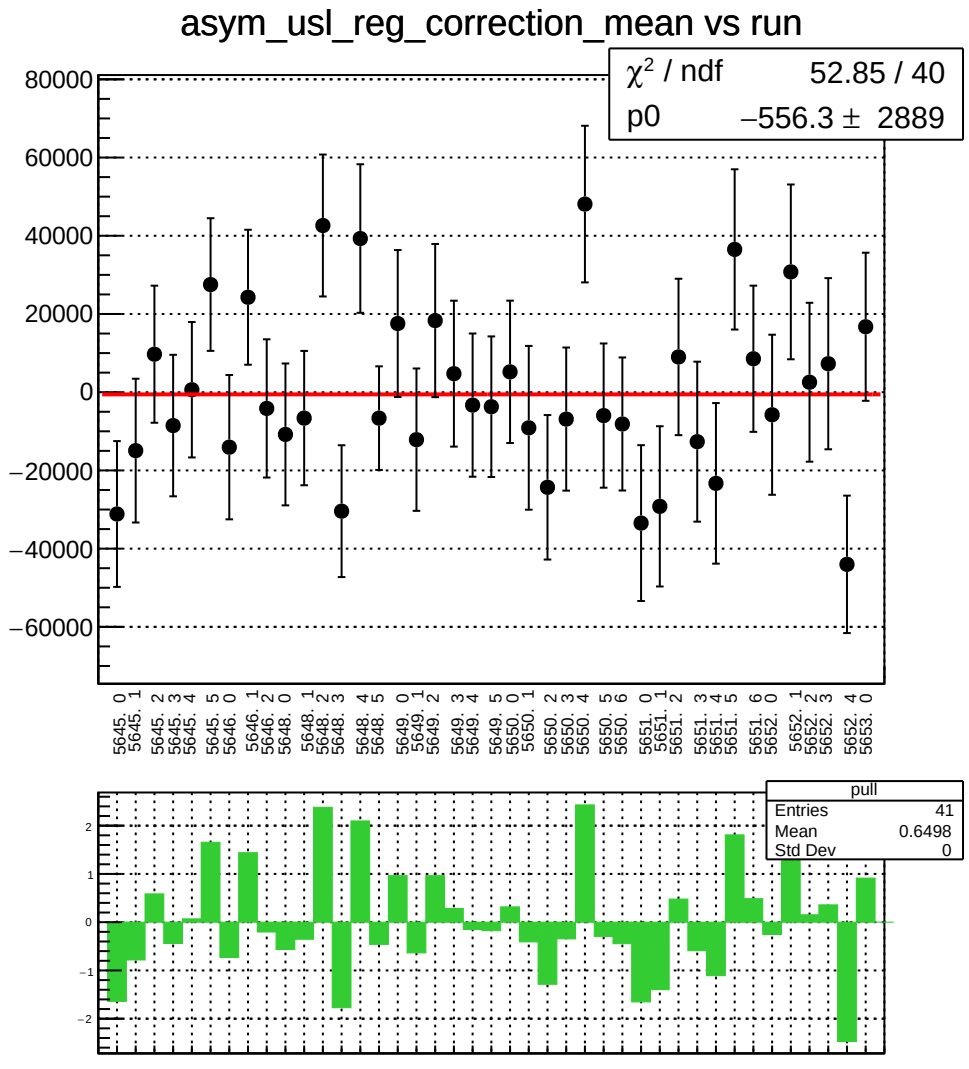

pull1D
Entries 41
Mean 0.07181
Std Dev 1.128
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

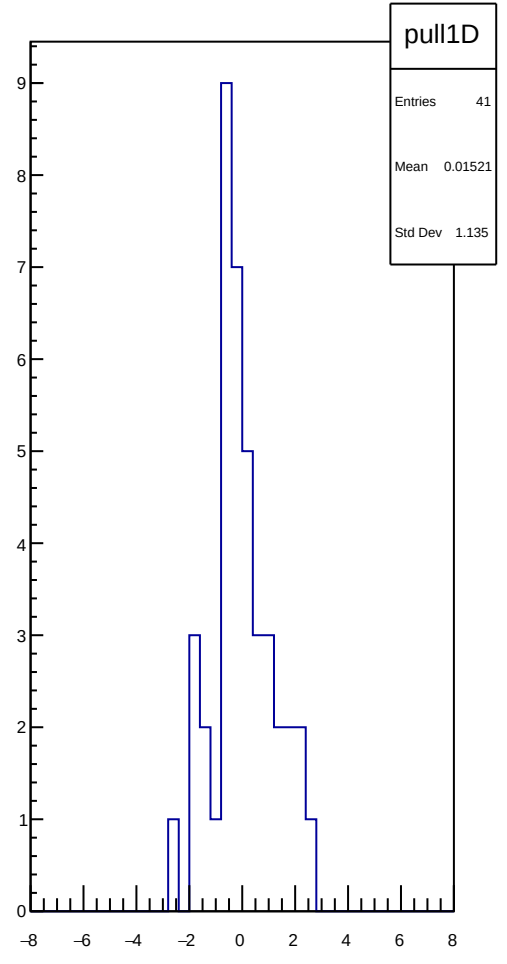

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.213e+04 / 40
p0 26.57 ± 0.03052
40
35
30
25
20
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

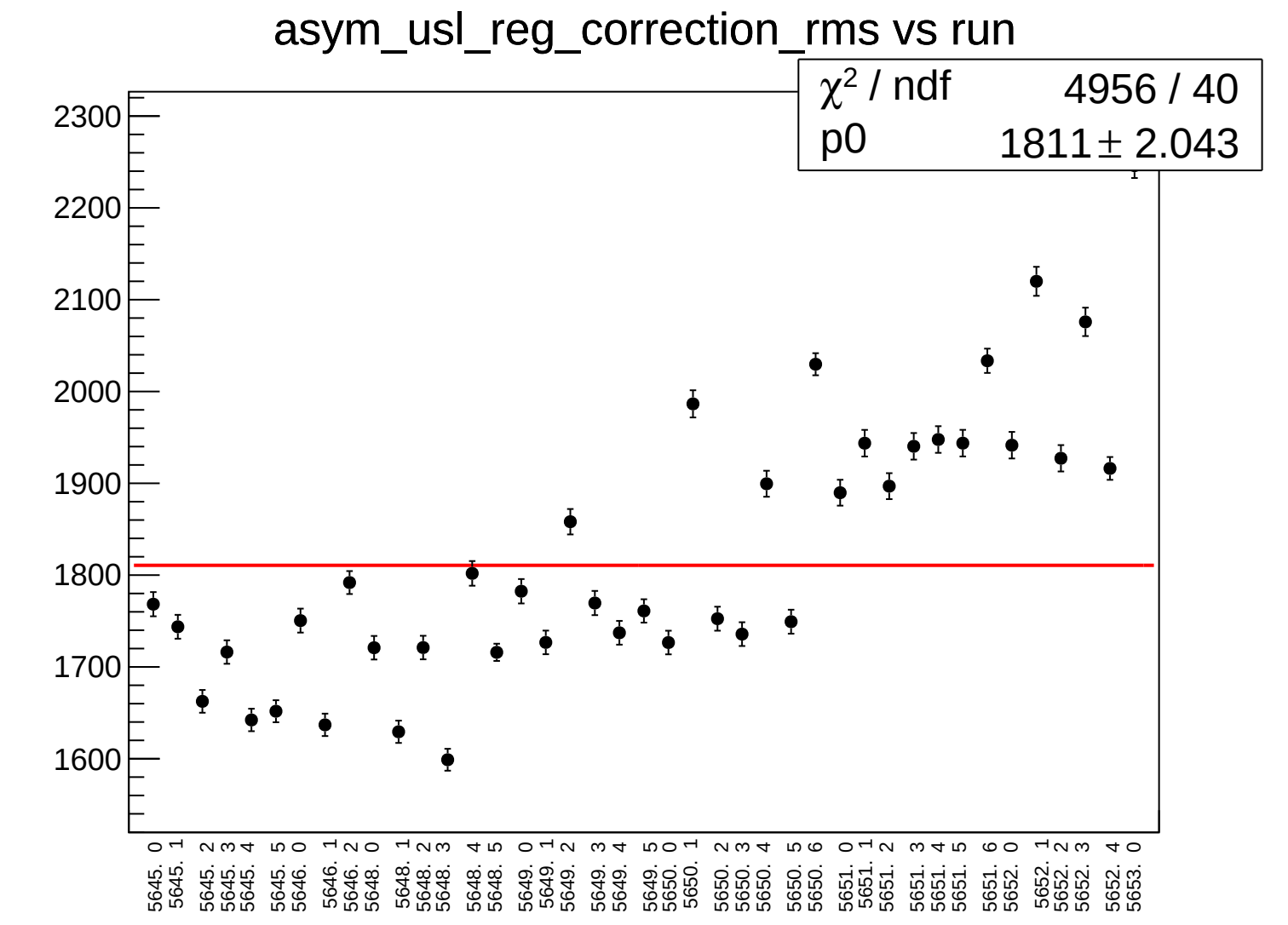

reg_asym_usl_mean vs run
χ^2 / ndf 48.38 / 40
p0 1098 ± 1716
pull
Entries 41
Mean 626.7
Std Dev 0

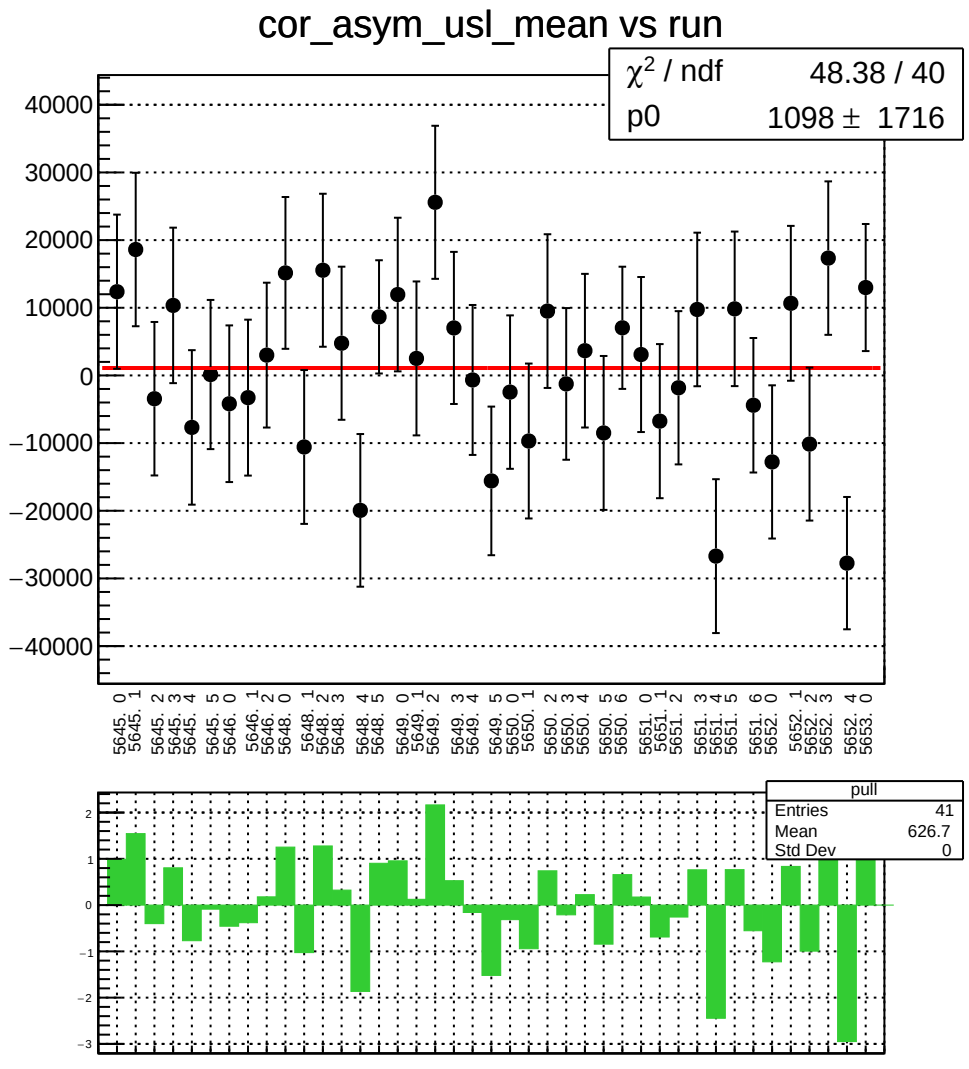

pull1D
Entries 41
Mean −0.00437
Std Dev 1.086

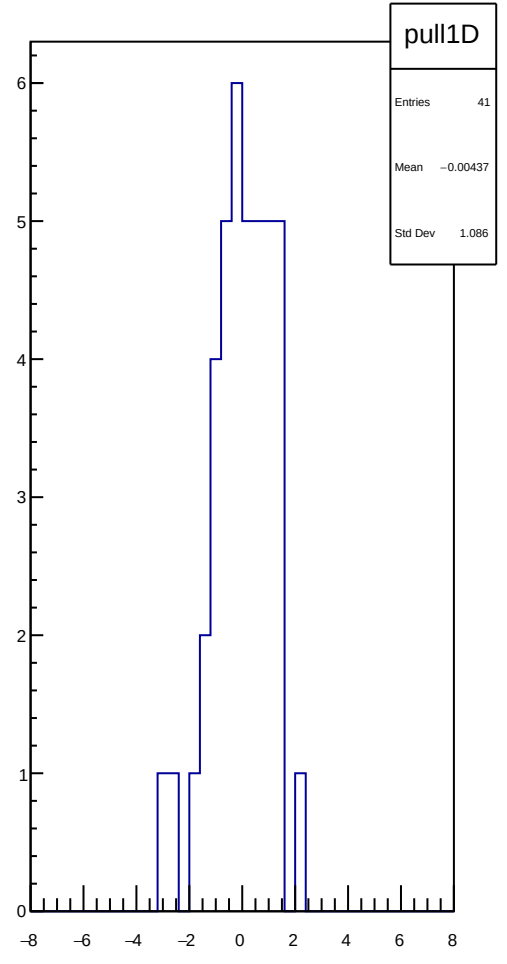

reg_asym_usl_rms vs run
χ² / ndf 73.94 / 40
p0 1079 ± 1.213
1120
1110
1100
1090
1080
1070
1060
1050
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

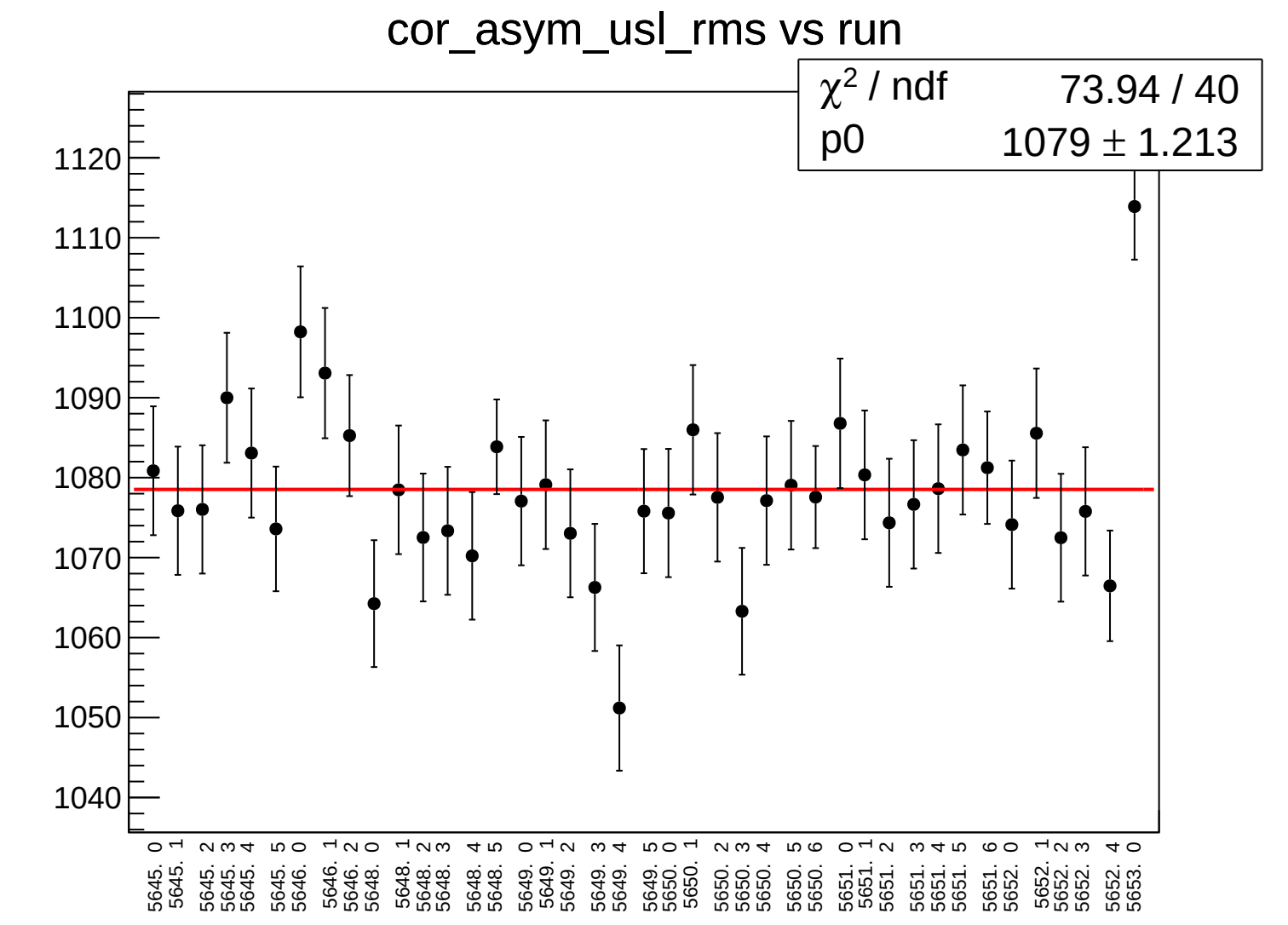

asym_usl_reg_correction_mean vs run
χ² / ndf 52.85 / 40
p0 −556.3 ± 2889
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 0.6498
Std Dev 0
2
1
0
−1
−2

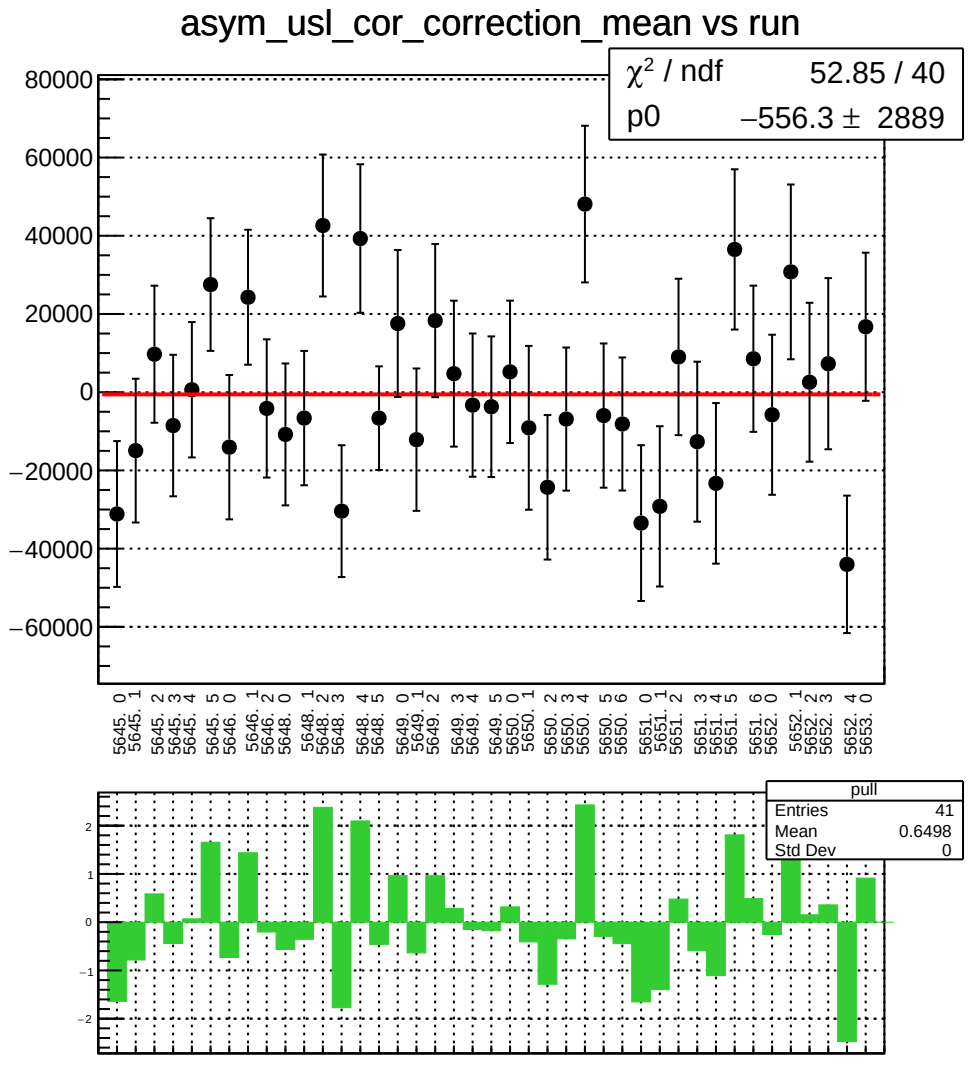

pull1D
Entries 41
Mean 0.01521
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

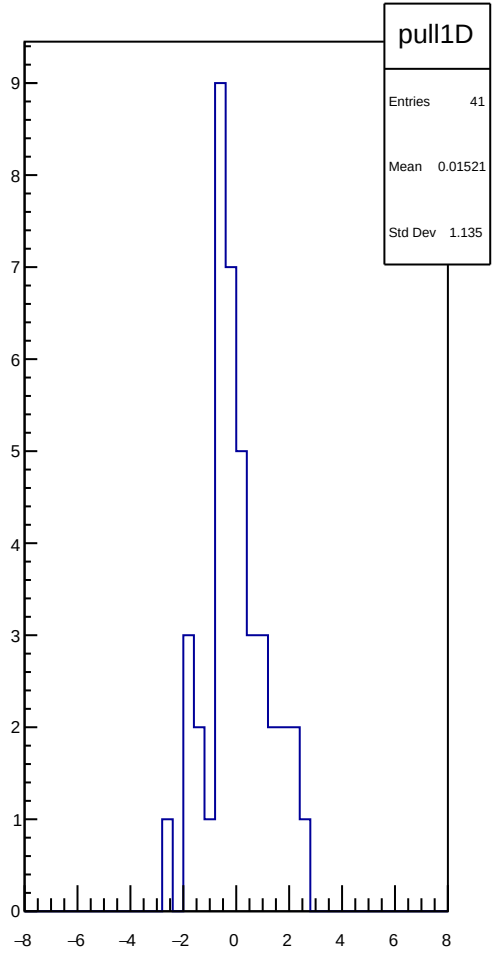

asym_usl_reg_correction_rms vs run
χ² / ndf 4956 / 40
p0 1811 ± 2.043
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

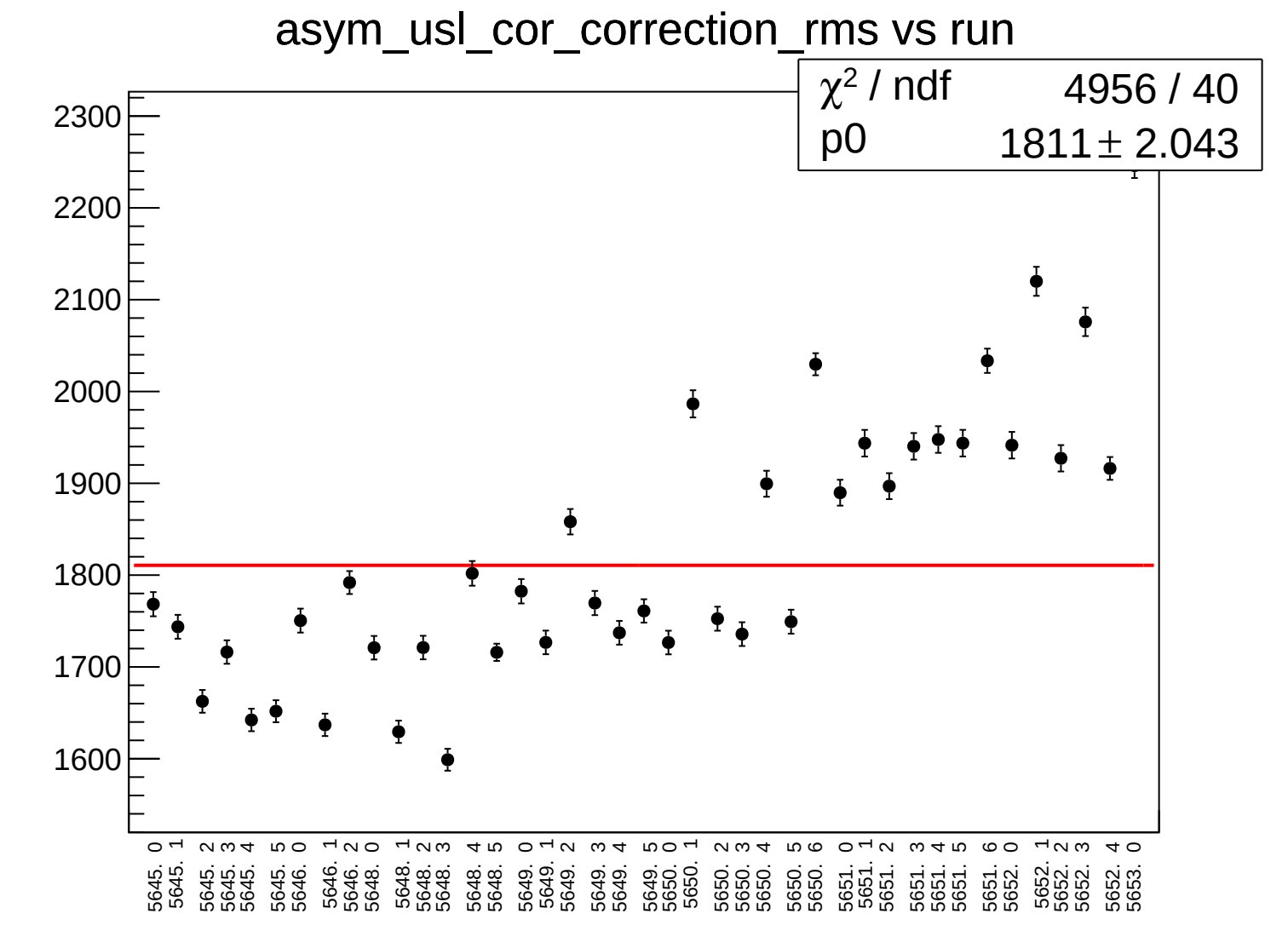

cor_asym_usl_mean vs run
χ² / ndf 48.38 / 40
p0 1098 ± 1716
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 626.7
Std Dev 0
2
1
0
−1
−2
−3

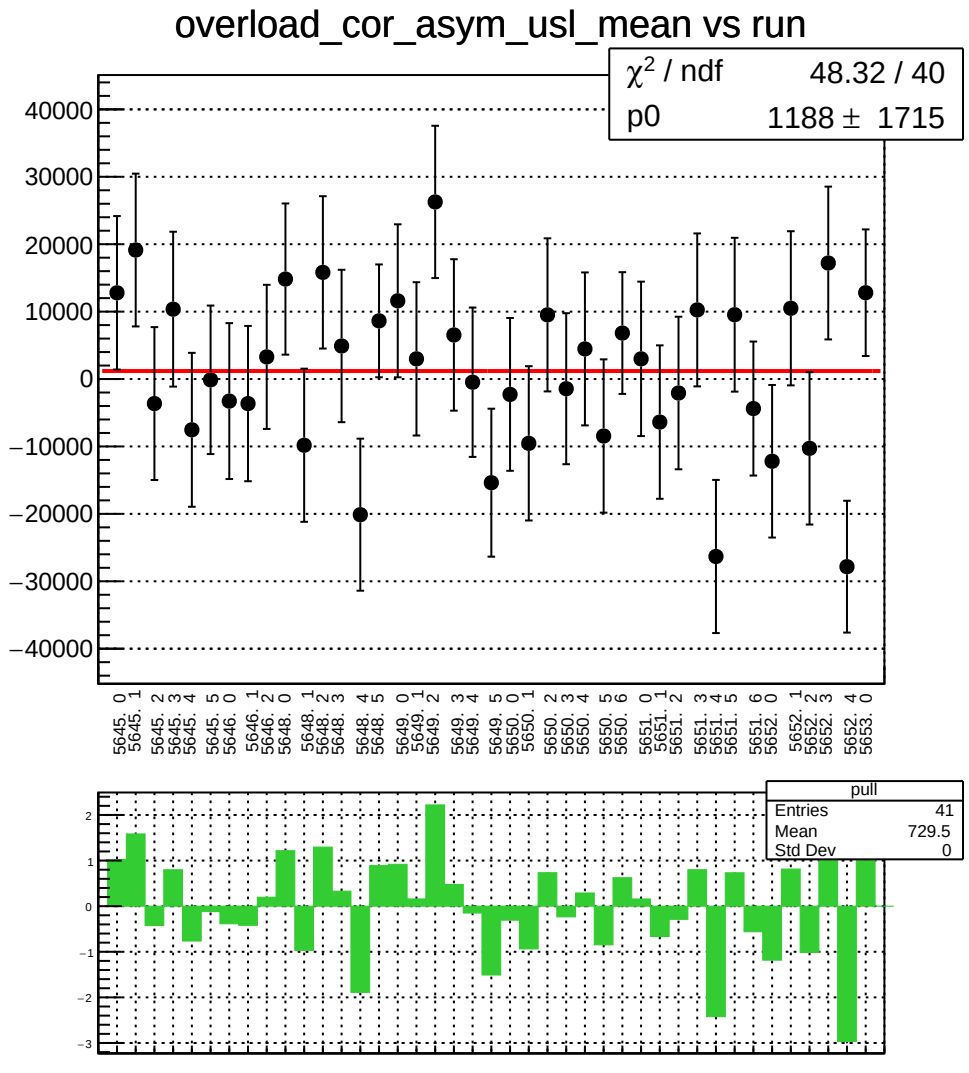

pull1D
Entries 41
Mean −0.00437
Std Dev 1.086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

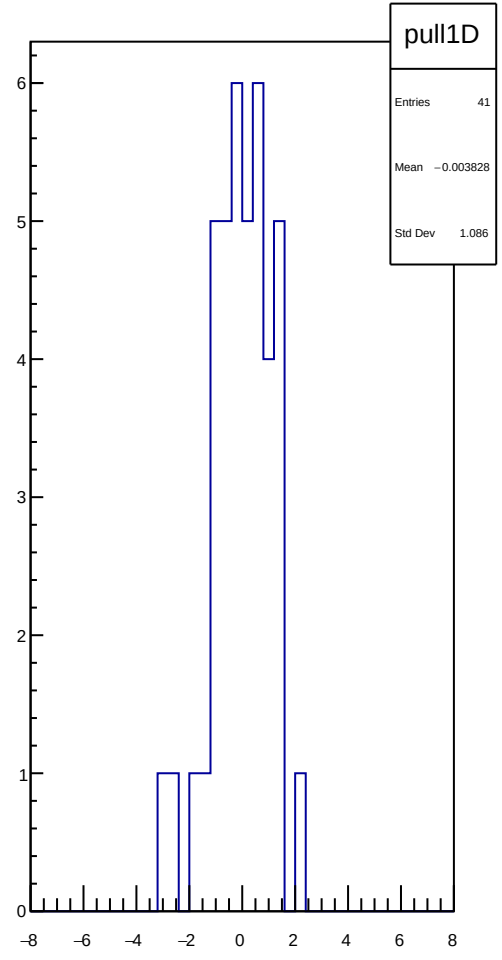

cor_asym_usl_rms vs run
χ² / ndf 73.94 / 40
p0 1079 ± 1.213
1120
1110
1100
1090
1080
1070
1060
1050
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

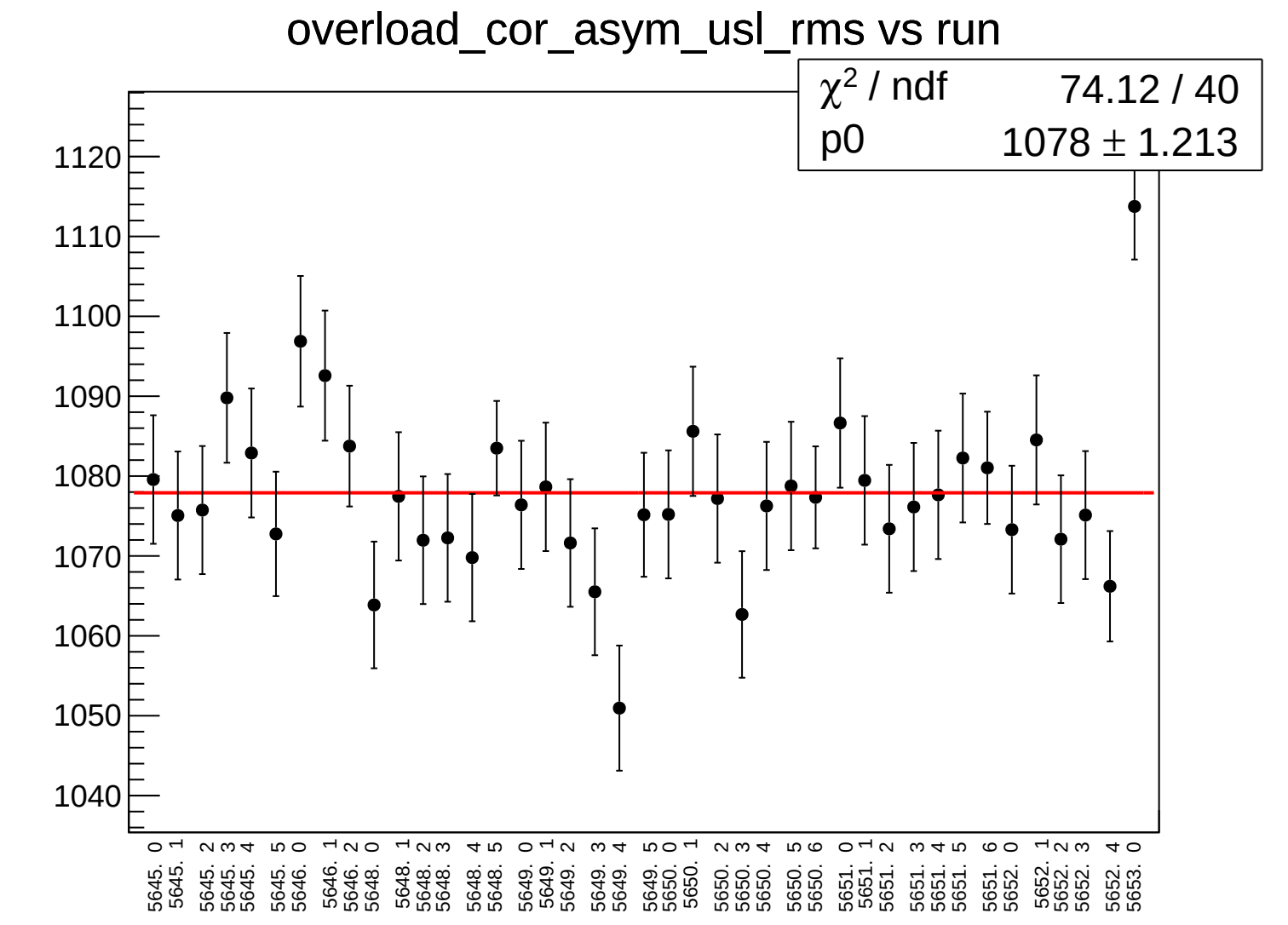

asym_usl_cor_correction_mean vs run
χ² / ndf 52.85 / 40
p0 −556.3 ± 2889
pull
Entries 41
Mean 0.6498
Std Dev 0

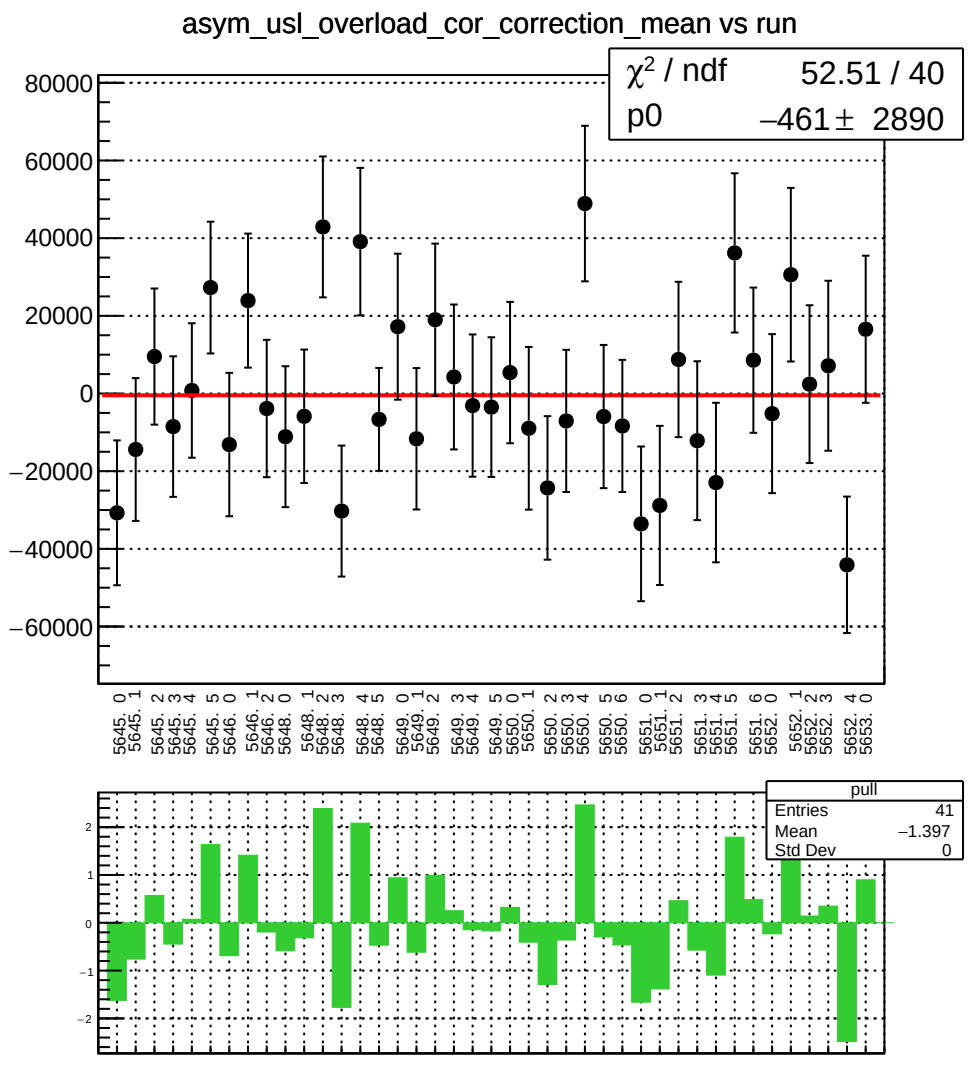

pull1D
Entries 41
Mean 0.01521
Std Dev 1.135

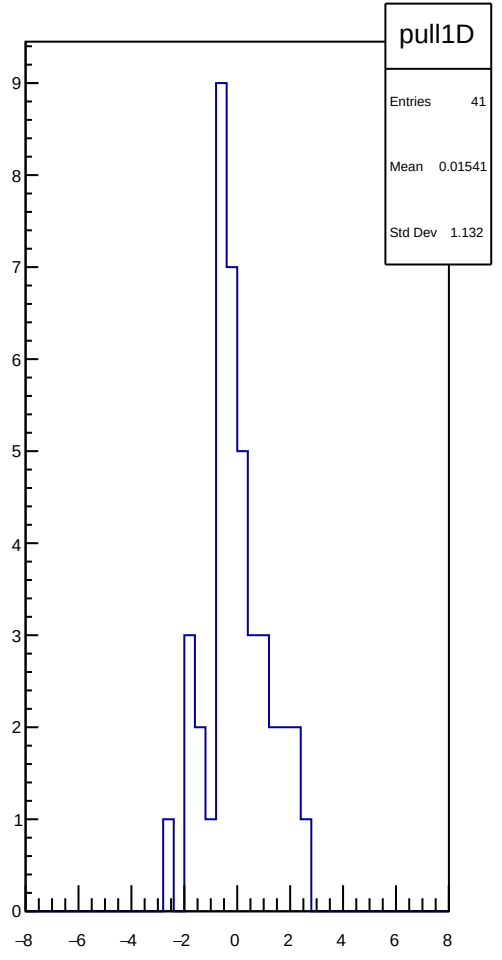

asym_usl_cor_correction_rms vs run
χ² / ndf 4956 / 40
p0 1811 ± 2.043
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

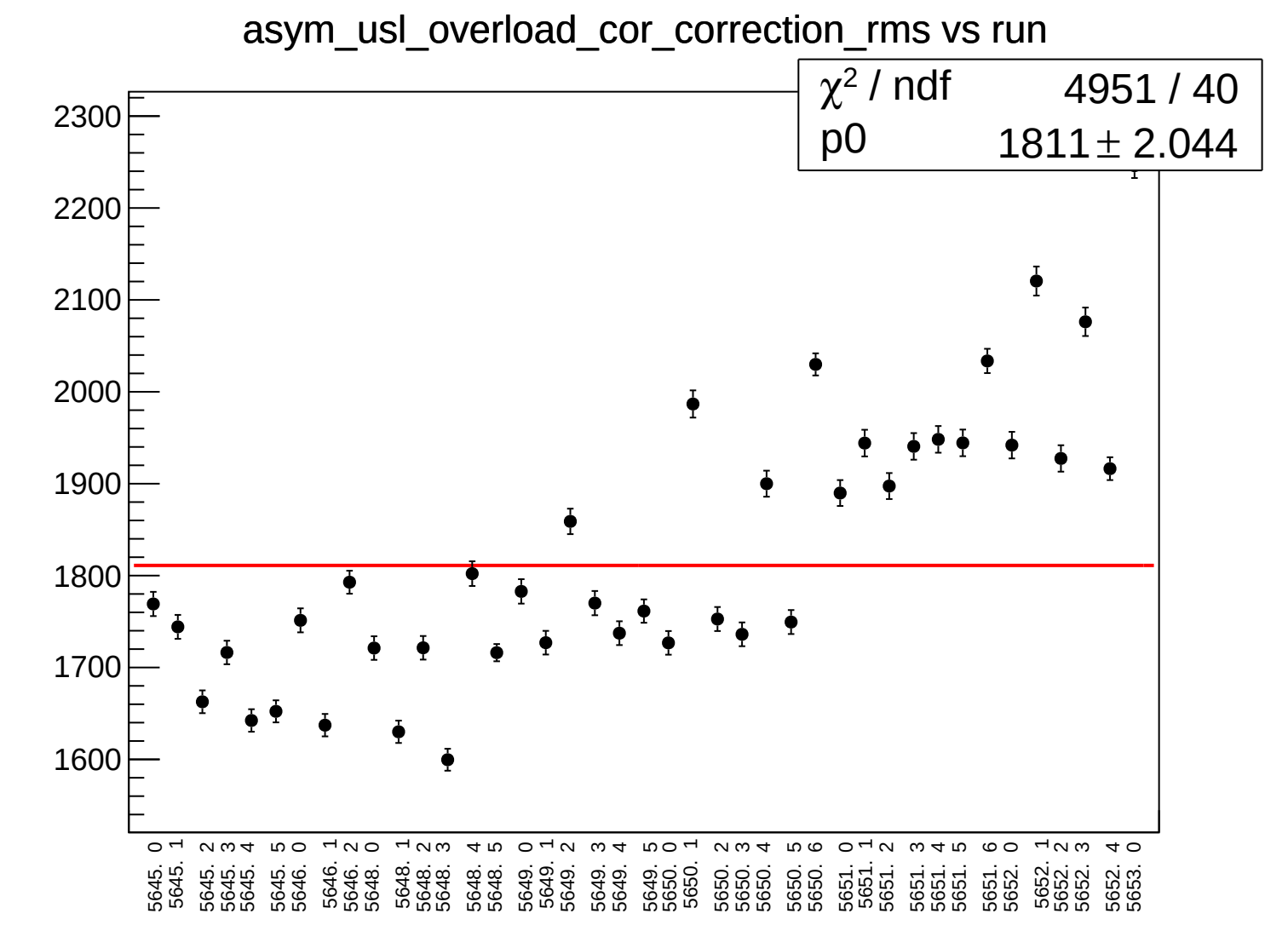

overload_cor_asym_usl_mean vs run
χ² / ndf 48.32 / 40
p0 1188 ± 1715
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 729.5
Std Dev 0
2
1
0
−1
−2
−3

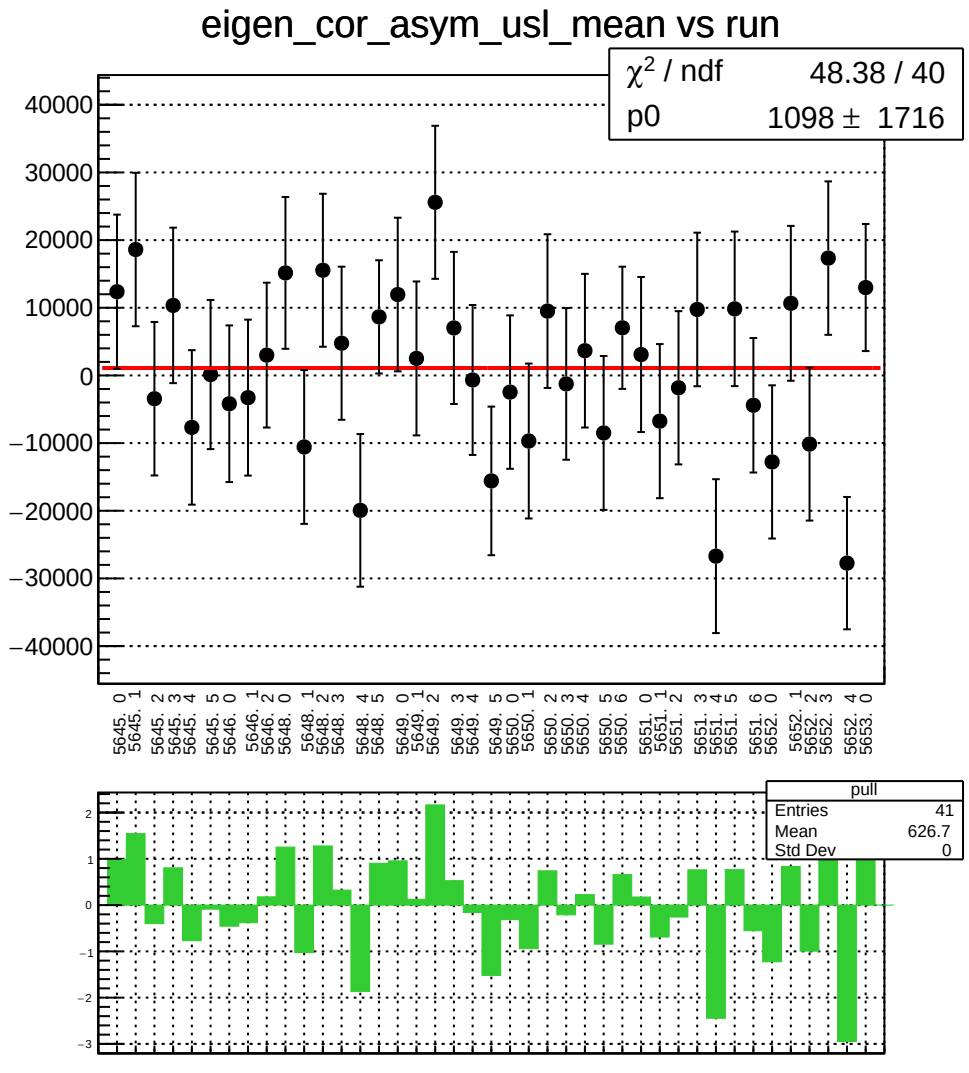

pull1D
Entries 41
Mean −0.003828
Std Dev 1.086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

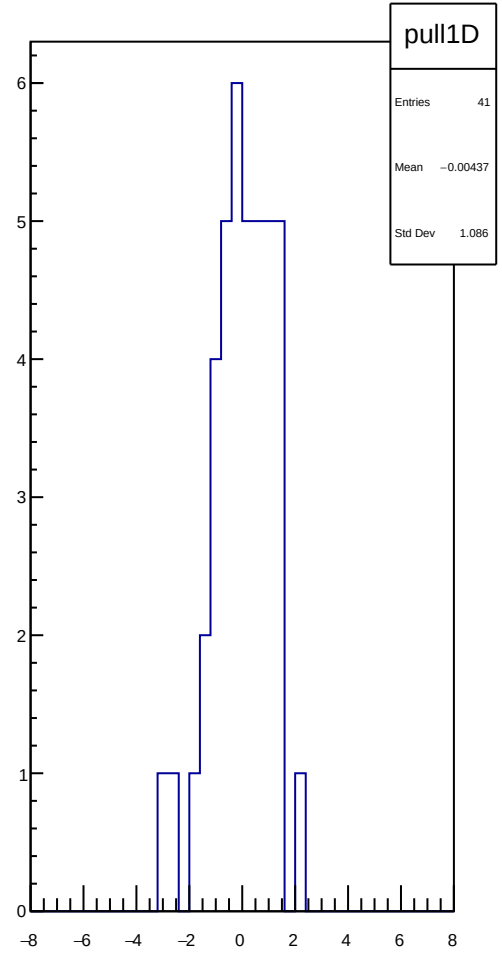

overload_cor_asym_usl_rms vs run
χ² / ndf 74.12 / 40
p0 1078 ± 1.213
1120
1110
1100
1090
1080
1070
1060
1050
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

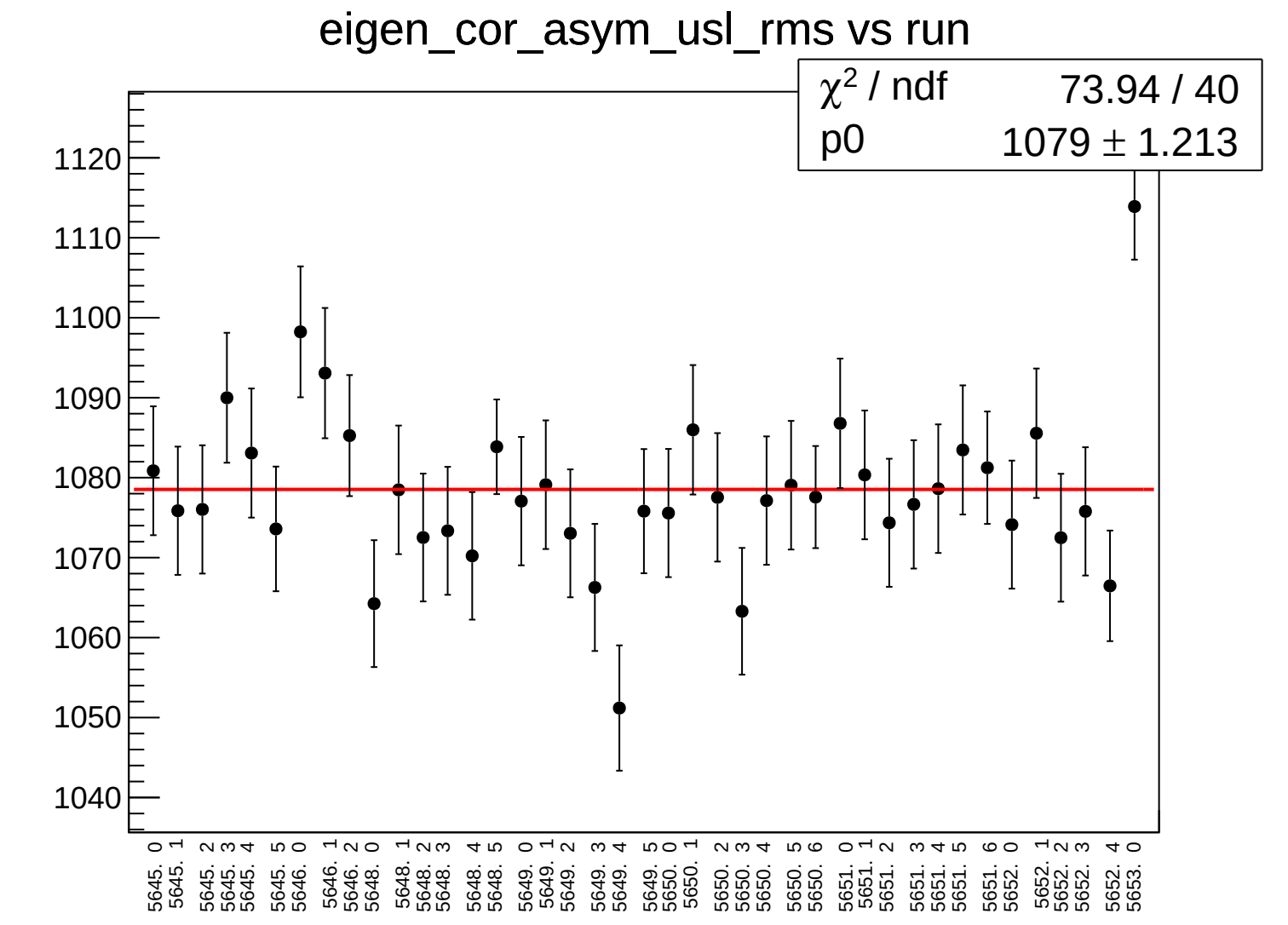

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 52.51 / 40
p0 −461 ± 2890
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.397
Std Dev 0
2
1
0
−1
−2

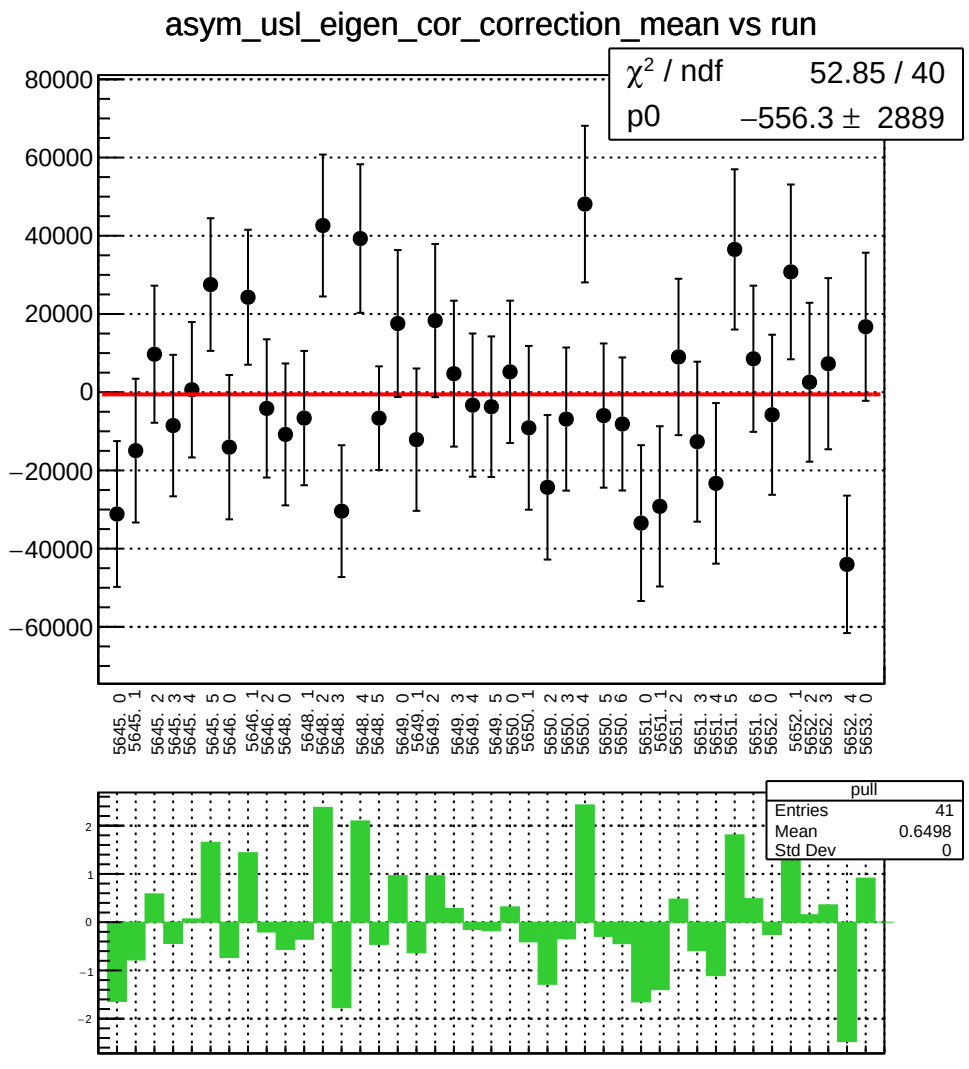

pull1D
Entries 41
Mean 0.01541
Std Dev 1.132
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

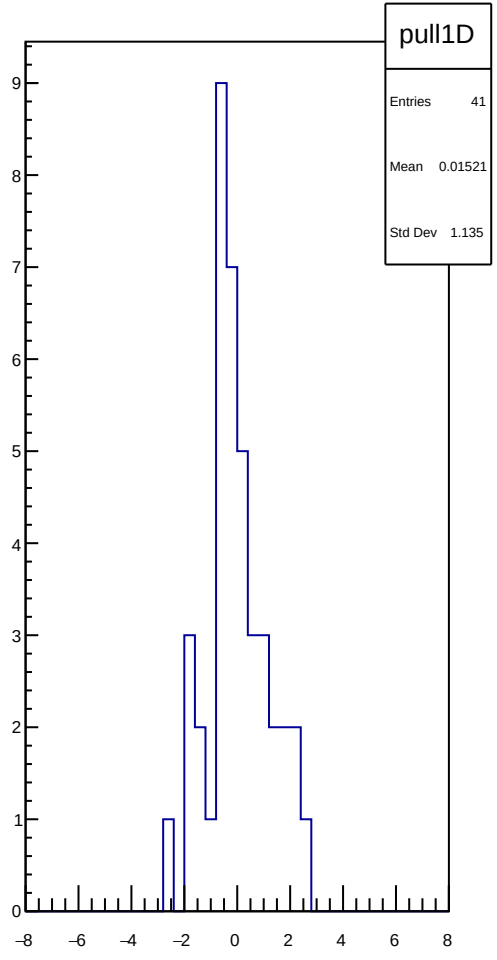

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 4951 / 40
p0 1811 ± 2.044
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

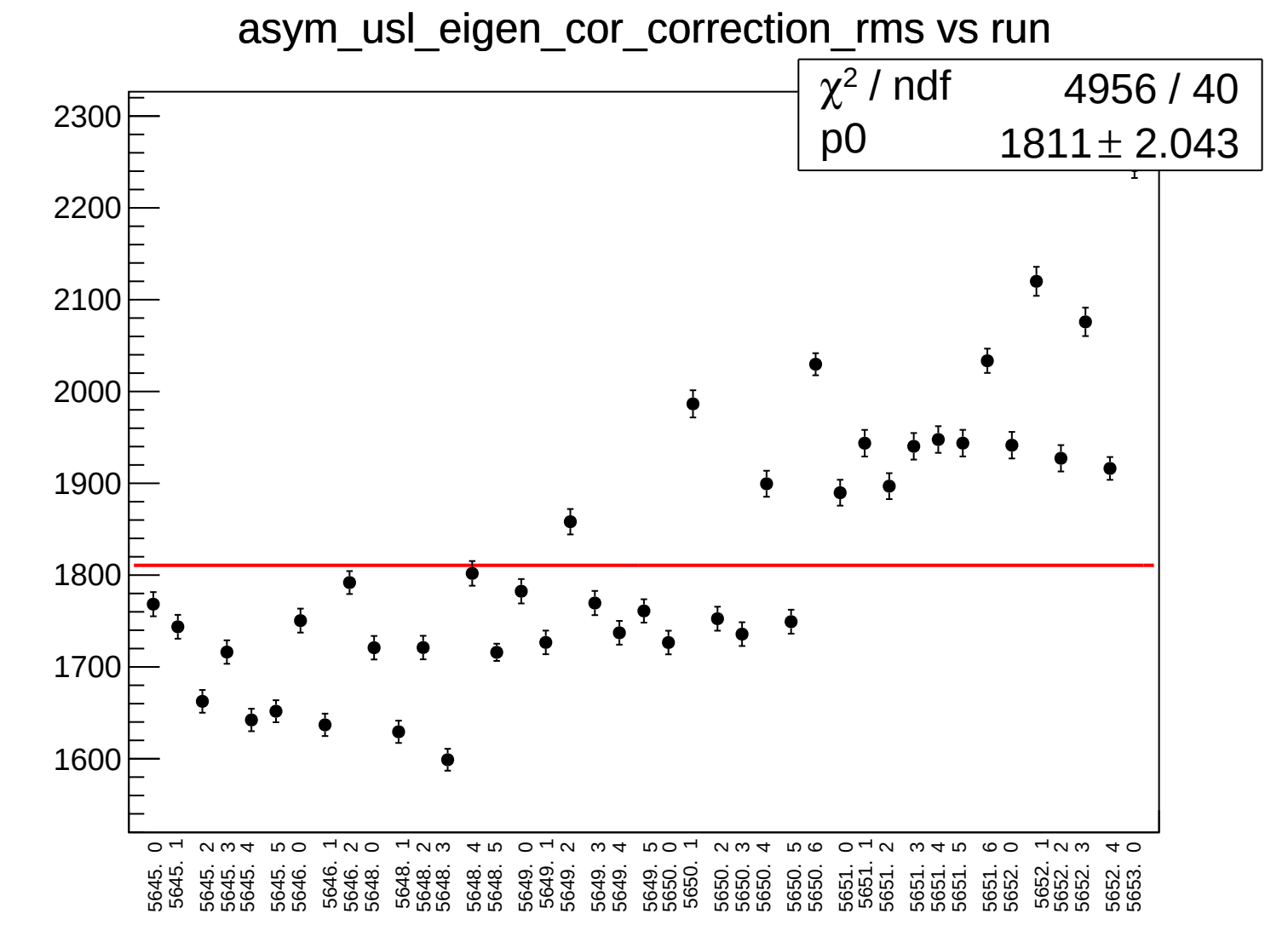

eigen_cor_asym_usl_mean vs run
χ² / ndf 48.38 / 40
p0 1098 ± 1716
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 626.7
Std Dev 0
2
1
0
−1
−2
−3

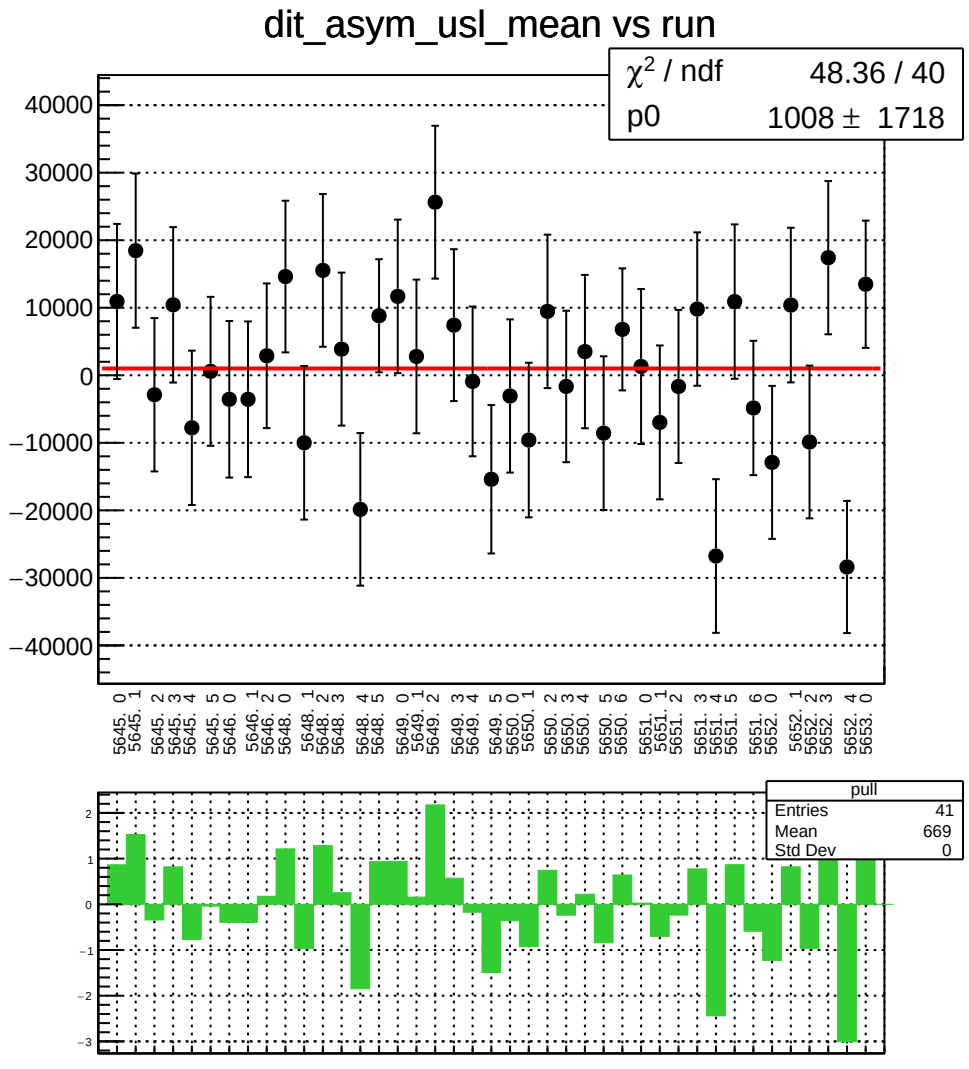

pull1D
Entries 41
Mean −0.00437
Std Dev 1.086
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

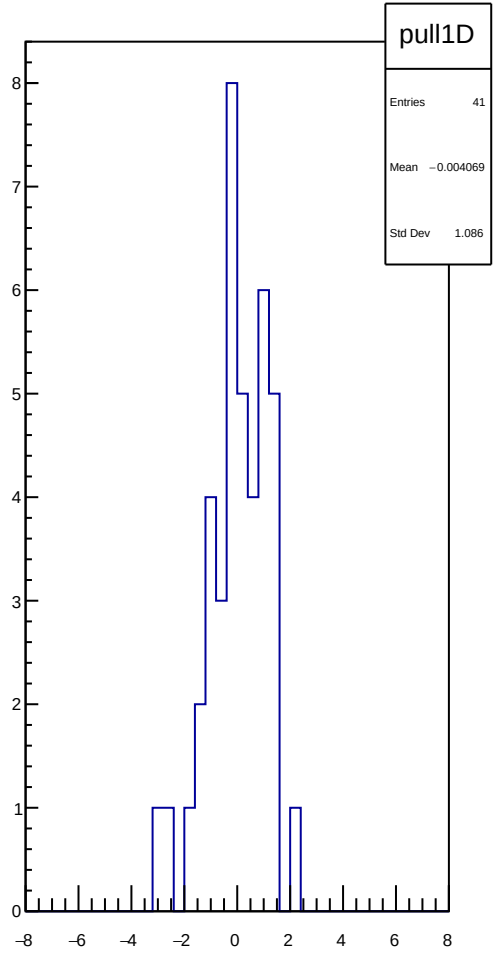

eigen_cor_asym_usl_rms vs run
χ² / ndf 73.94 / 40
p0 1079 ± 1.213
1120
1110
1100
1090
1080
1070
1060
1050
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

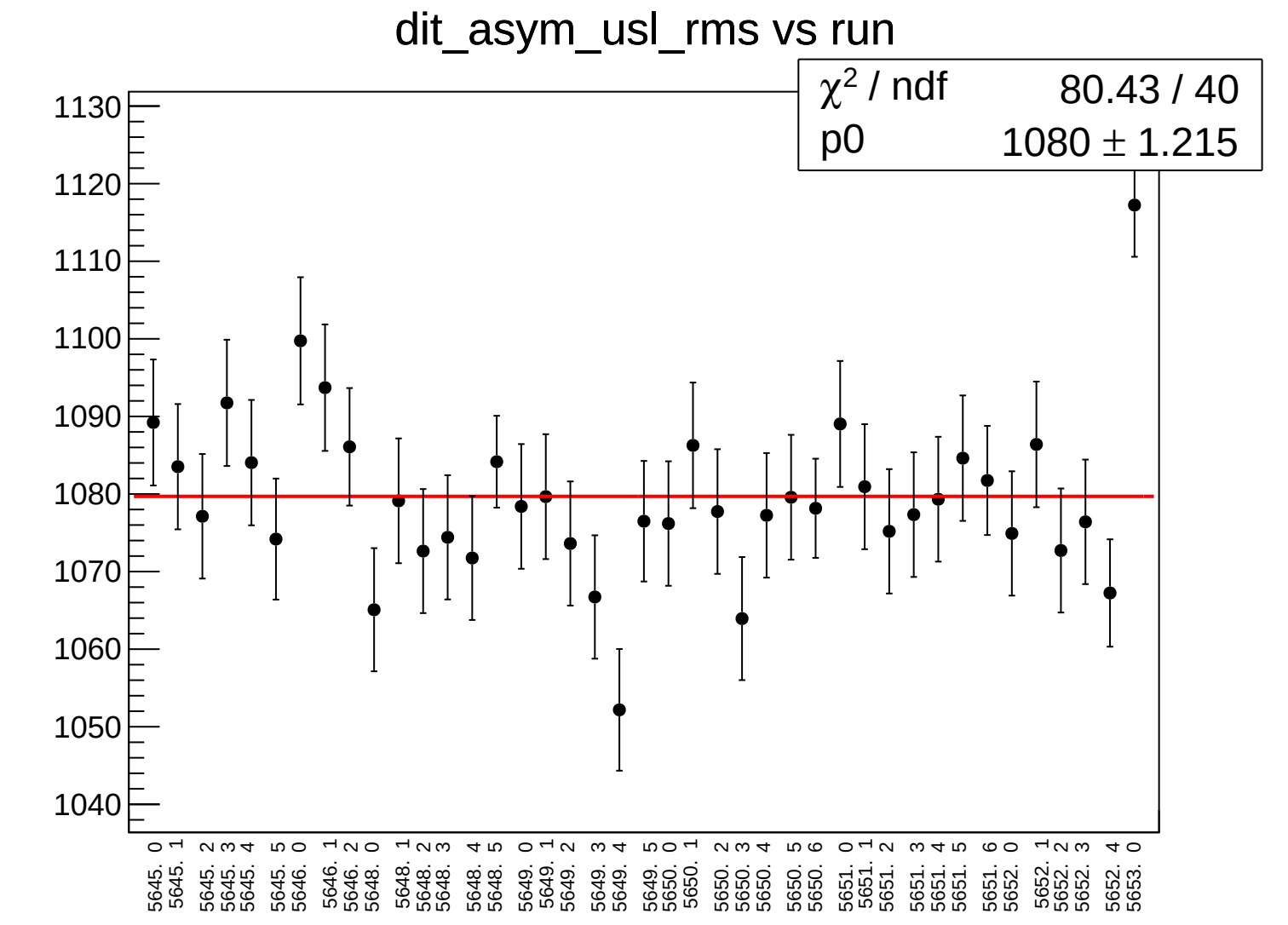

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 52.85 / 40
p0 −556.3 ± 2889
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 0.6498
Std Dev 0
2
1
0
−1
−2

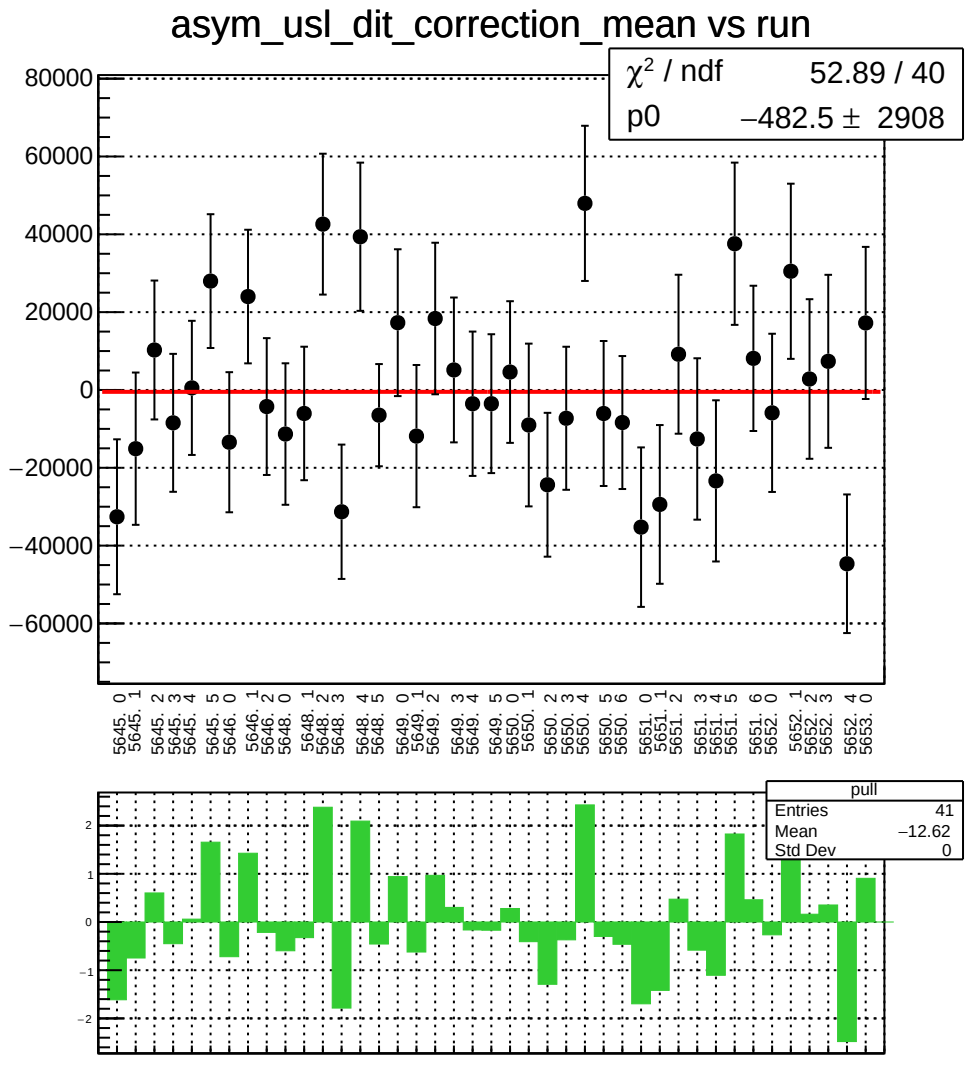

pull1D
Entries 41
Mean 0.01521
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

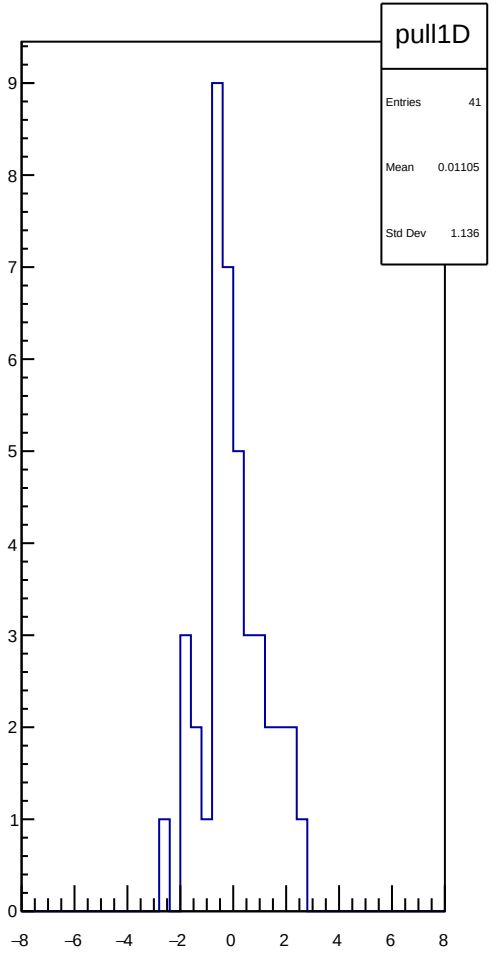

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 4956 / 40
p0 1811 ± 2.043
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

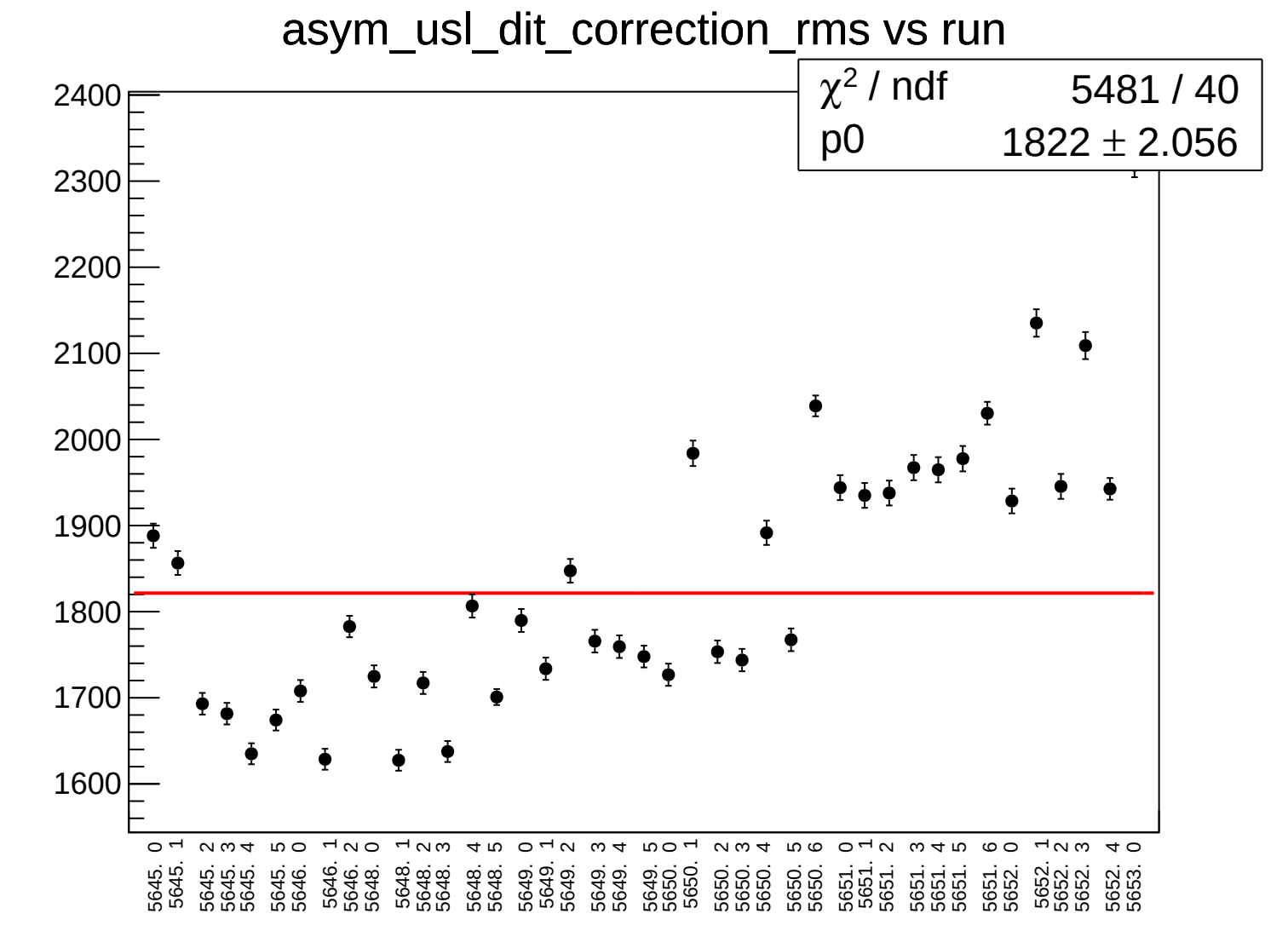

dit_asym_usl_mean vs run
χ² / ndf 48.36 / 40
p0 1008 ± 1718
pull
Entries 41
Mean 669
Std Dev 0

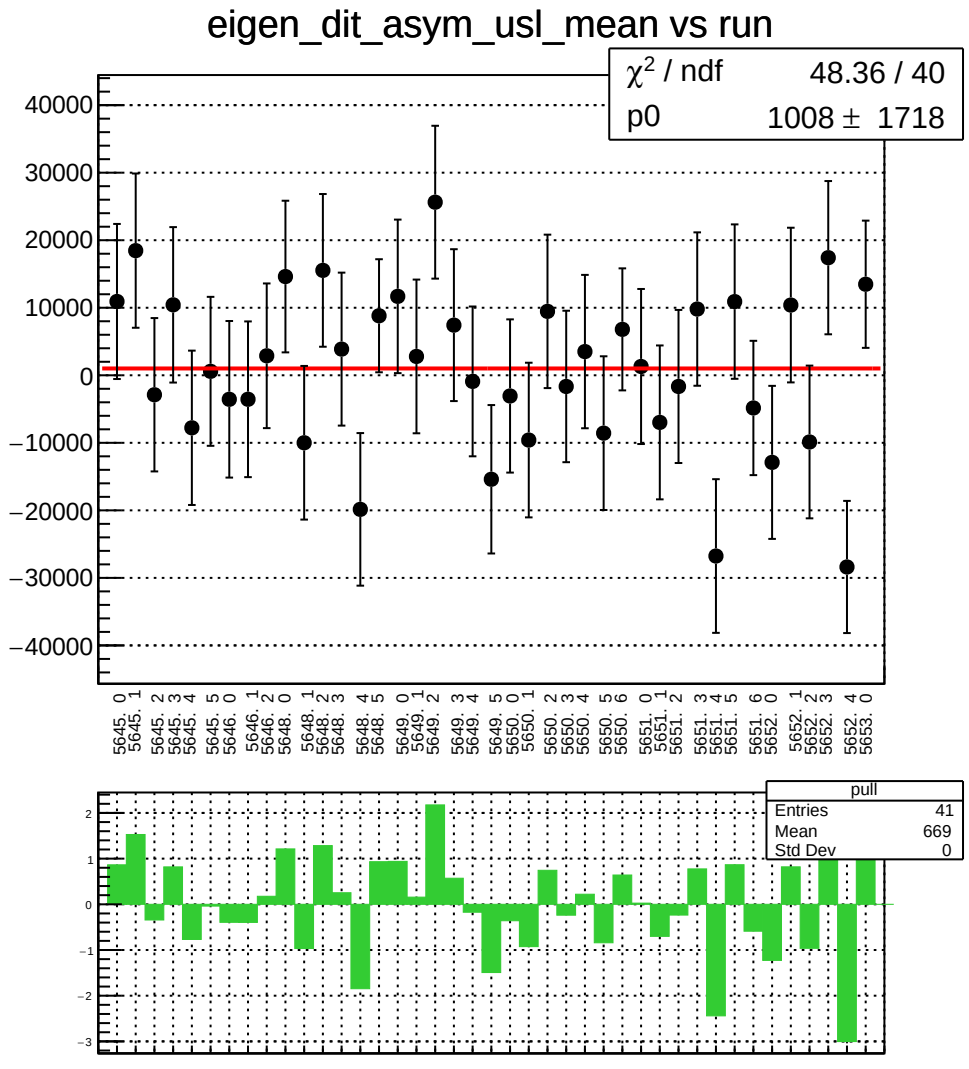

pull1D
Entries 41
Mean −0.004069
Std Dev 1.086

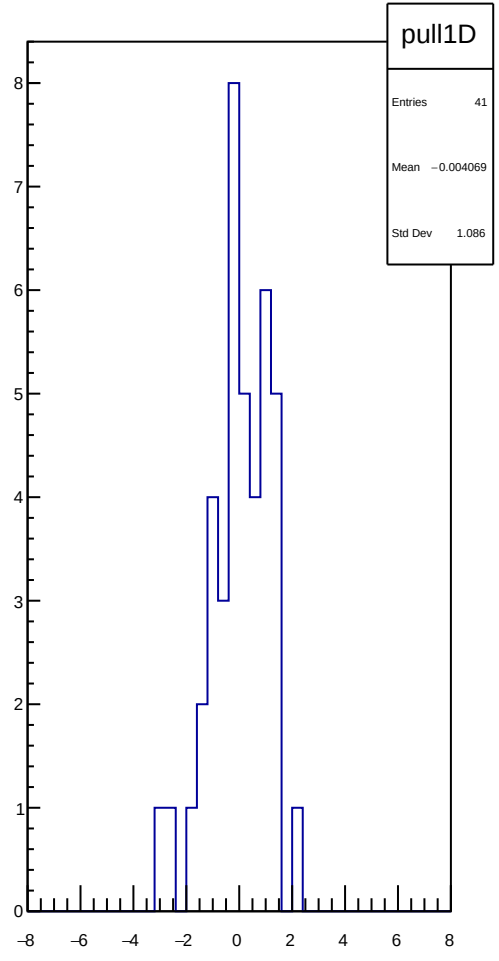

dit_asym_usl_rms vs run
χ² / ndf 80.43 / 40
p0 1080 ± 1.215
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

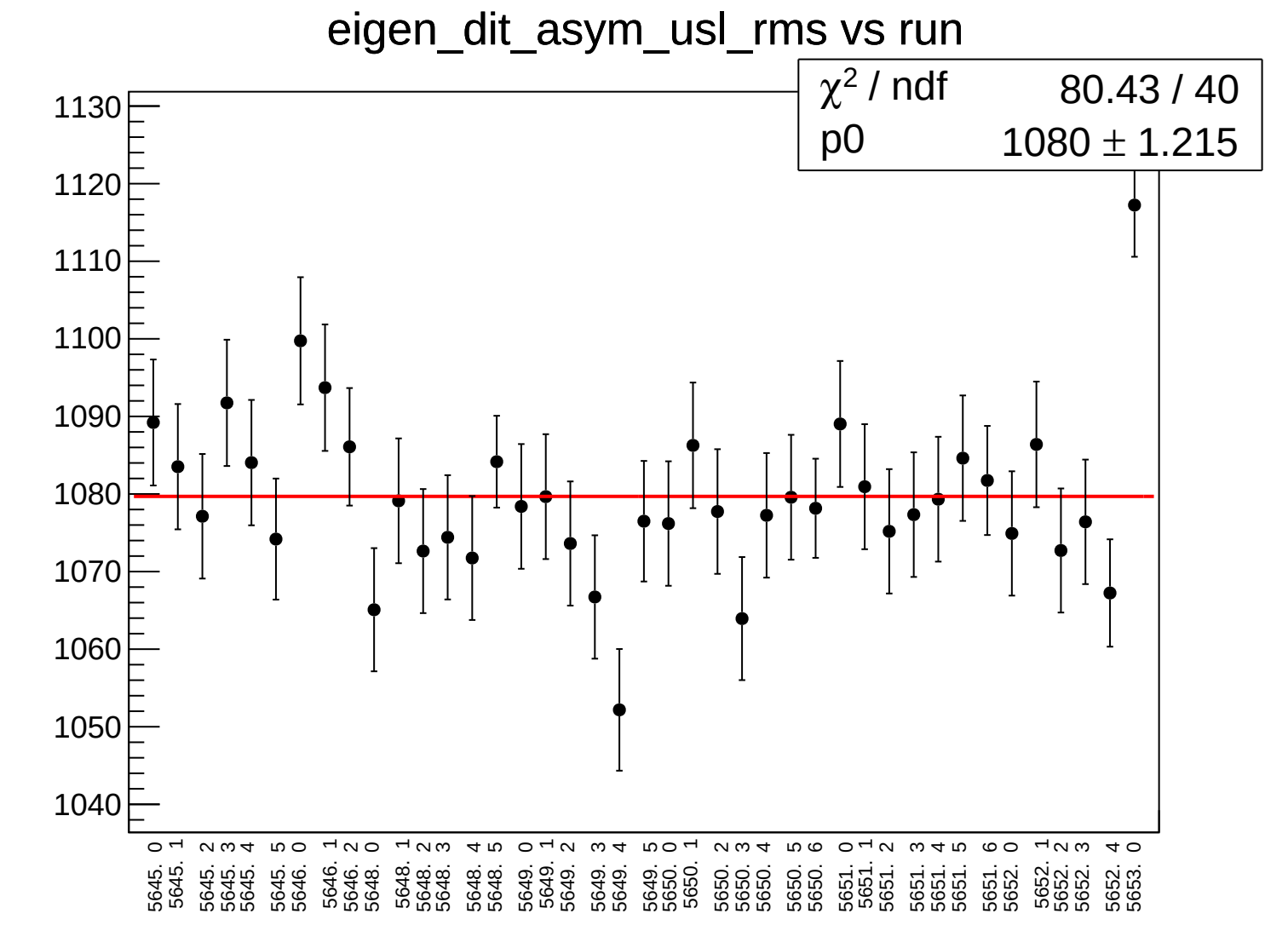

asym_usl_dit_correction_mean vs run
χ² / ndf 52.89 / 40
p0 −482.5 ± 2908
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −12.62
Std Dev 0
2
1
0
−1
−2

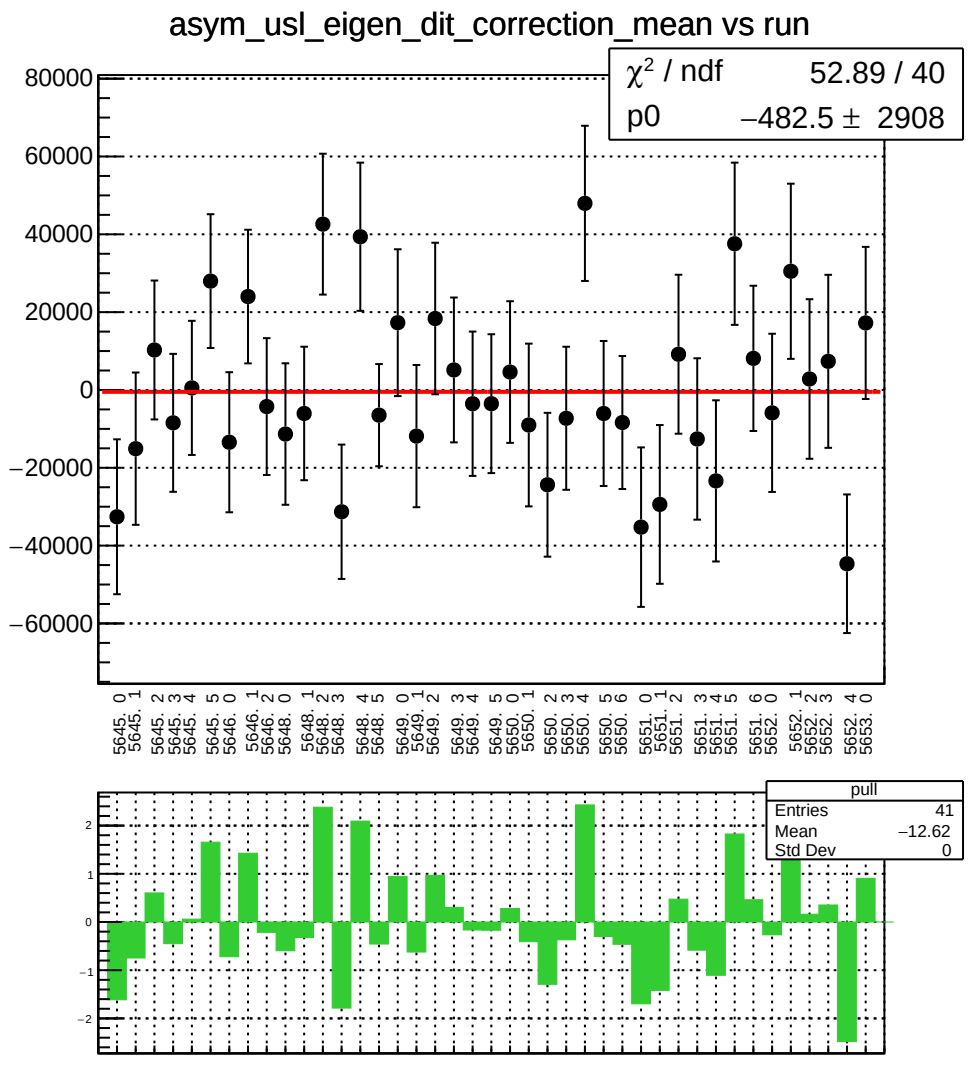

pull1D
Entries 41
Mean 0.01105
Std Dev 1.136
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

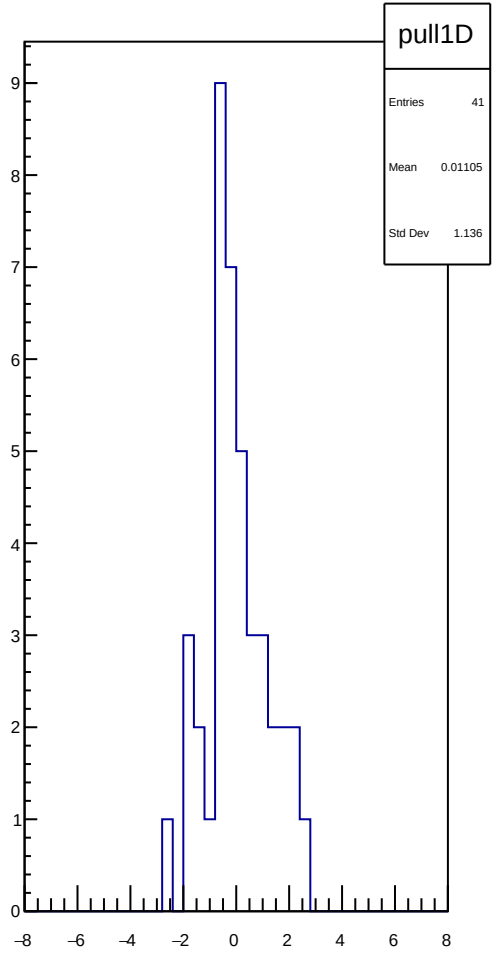

asym_usl_dit_correction_rms vs run
χ² / ndf 5481 / 40
p0 1822 ± 2.056
2400
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

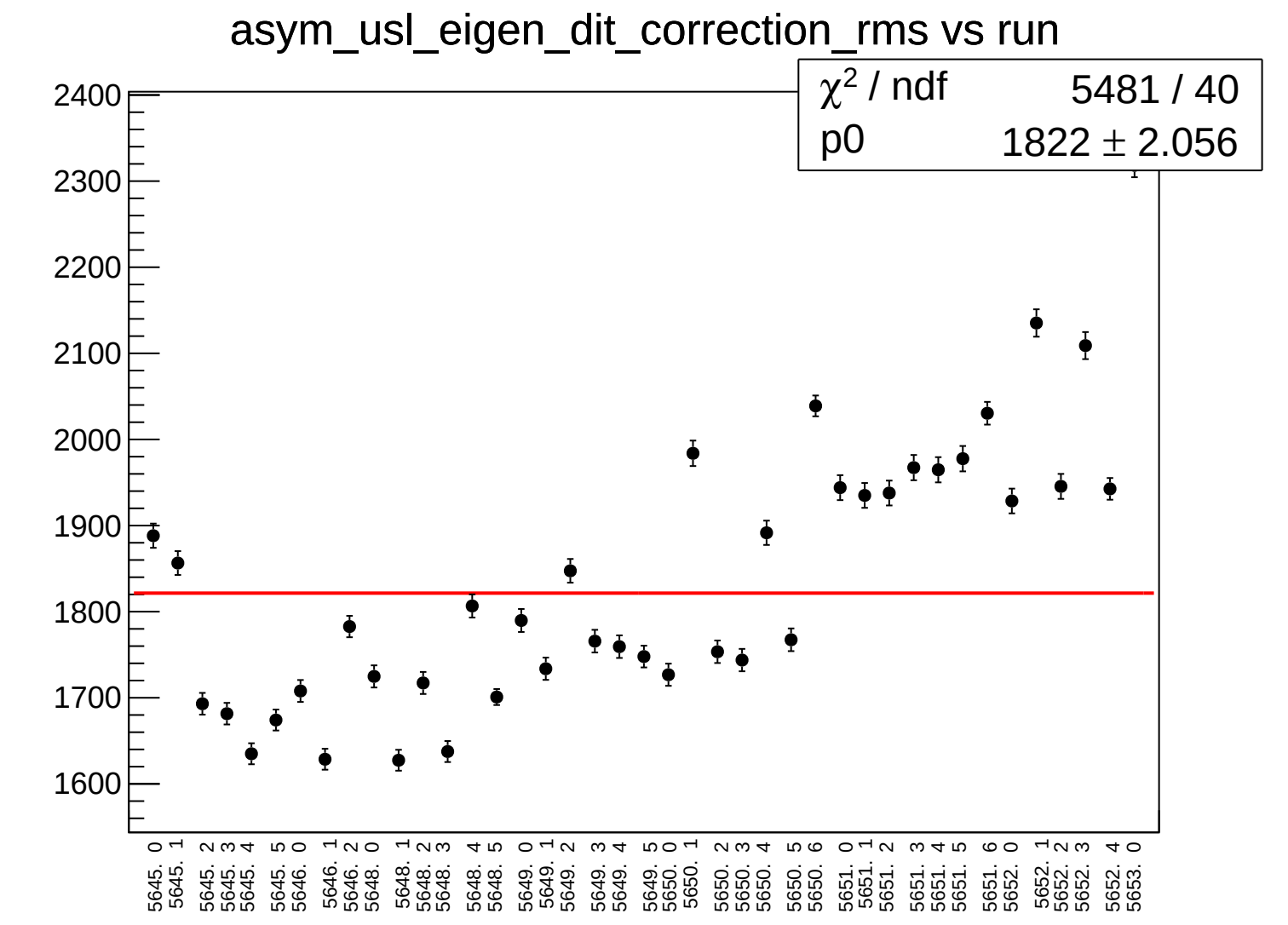

eigen_dit_asym_usl_mean vs run
χ^2 / ndf 48.36 / 40
p0 1008 ± 1718
pull
Entries 41
Mean 669
Std Dev 0

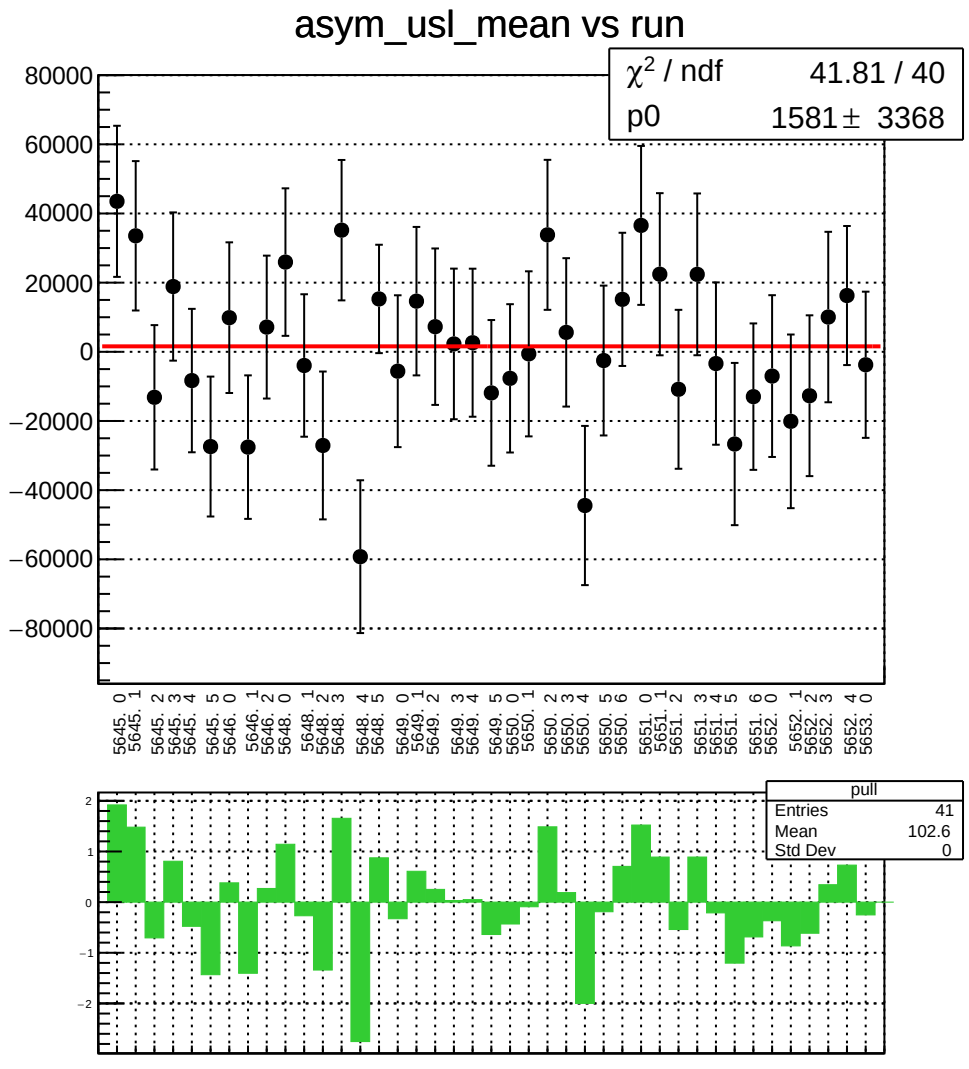

pull1D
Entries 41
Mean −0.004069
Std Dev 1.086

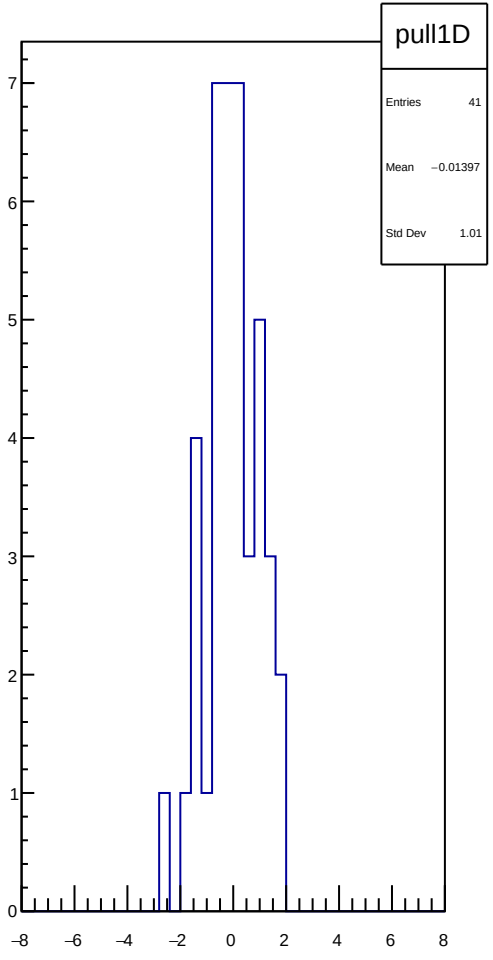

eigen_dit_asym_usl_rms vs run
χ² / ndf 80.43 / 40
p0 1080 ± 1.215
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

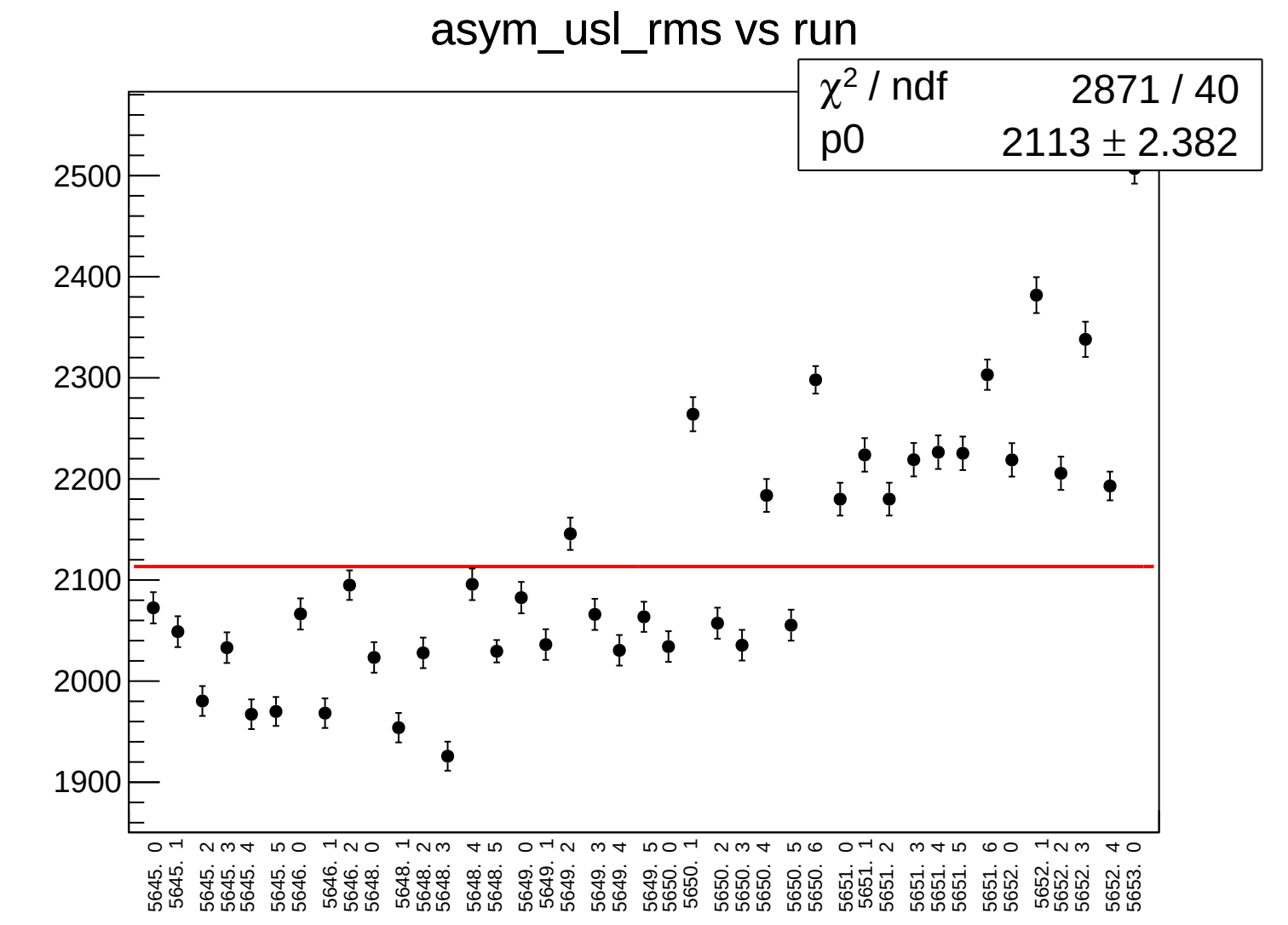

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 52.89 / 40
p0 −482.5 ± 2908
pull
Entries 41
Mean −12.62
Std Dev 0

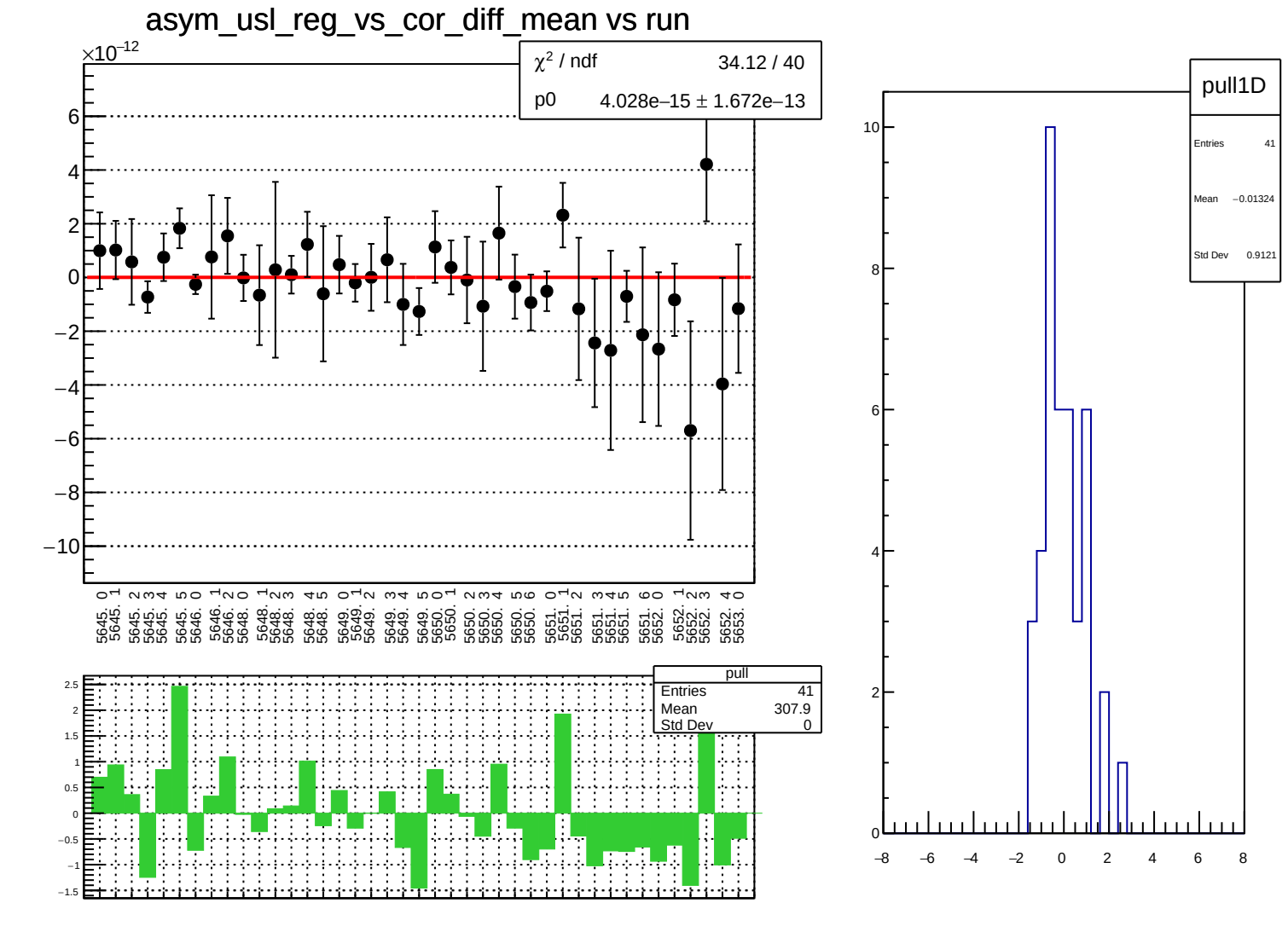

pull1D
Entries 41
Mean 0.01105
Std Dev 1.136

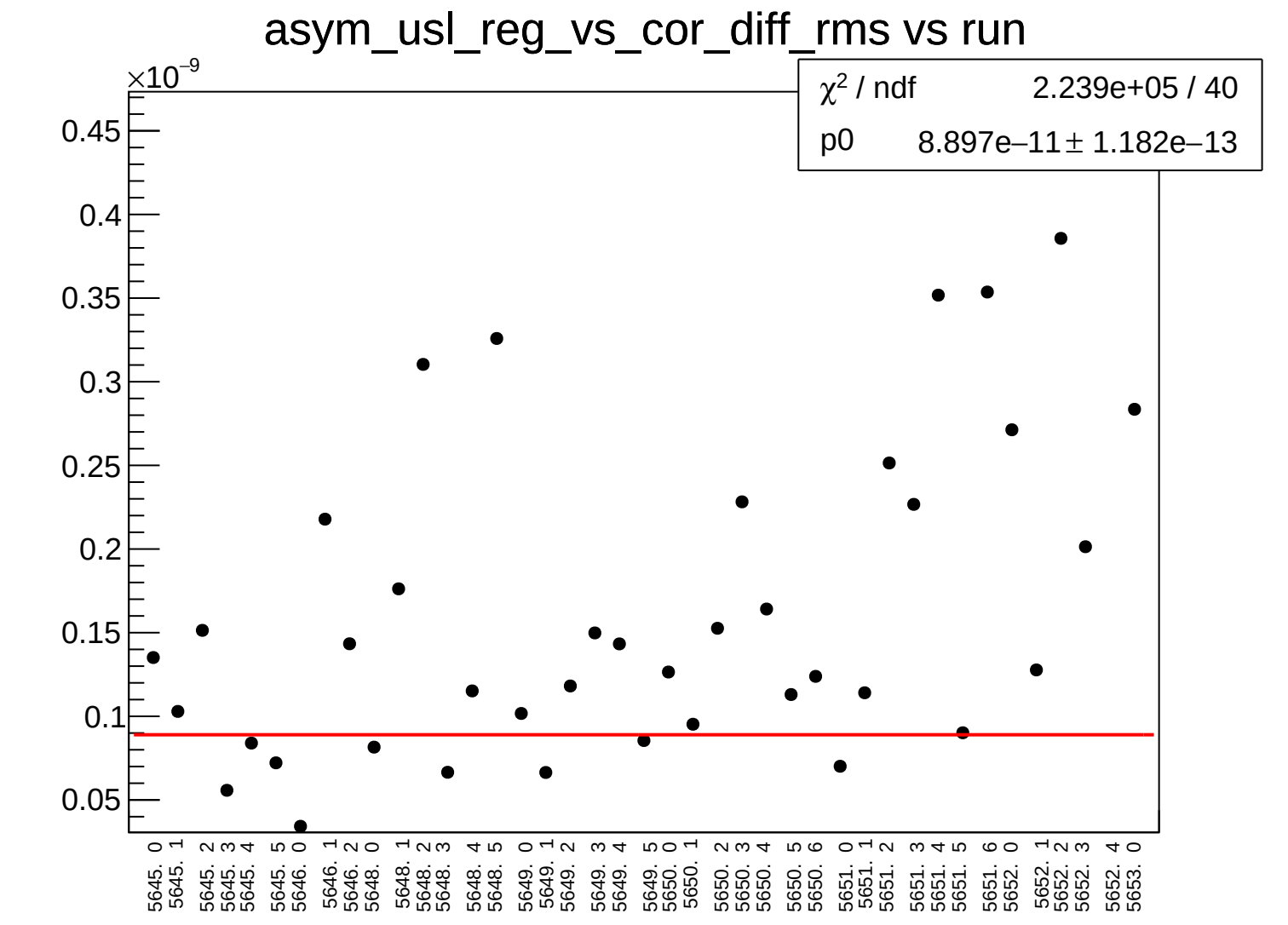

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 5481 / 40
p0 1822 ± 2.056
2400
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

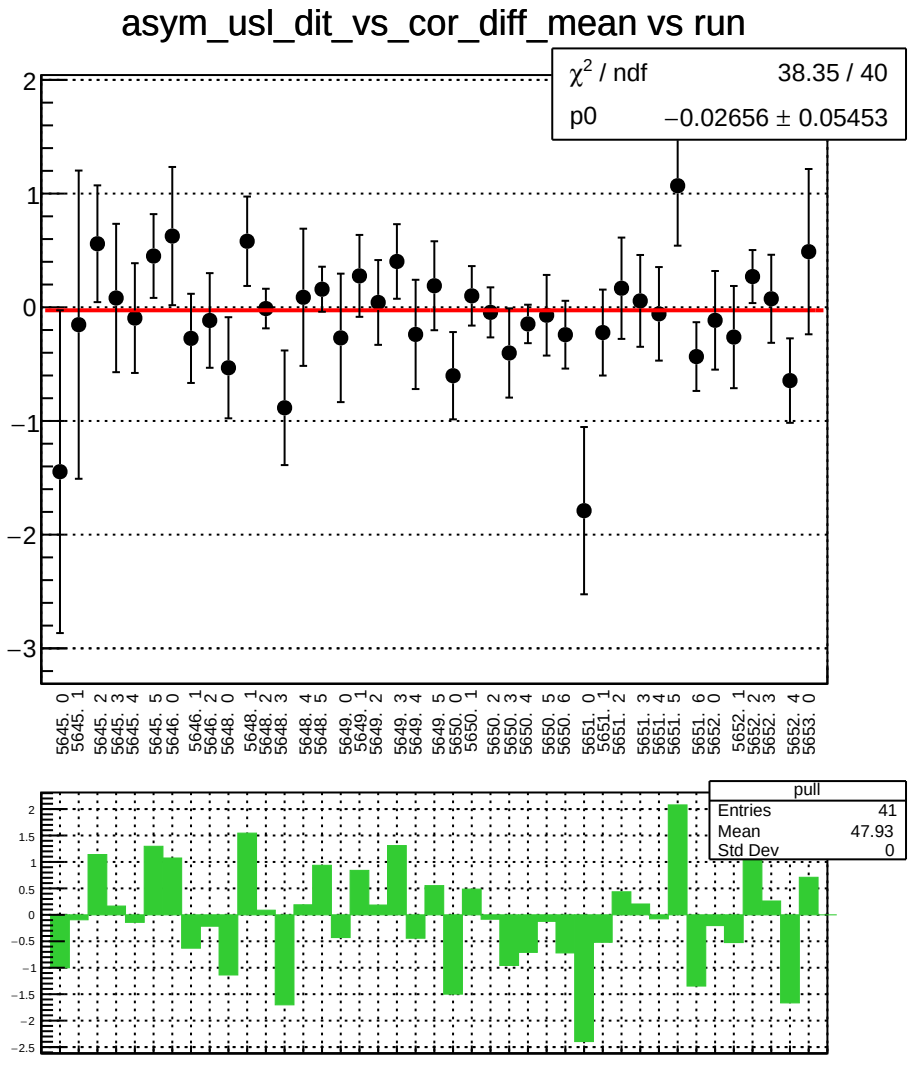

asym_usl_mean vs run
χ^2 / ndf 41.81 / 40
p0 1581 ± 3368
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 102.6
Std Dev 0
2
1
0
−1
−2

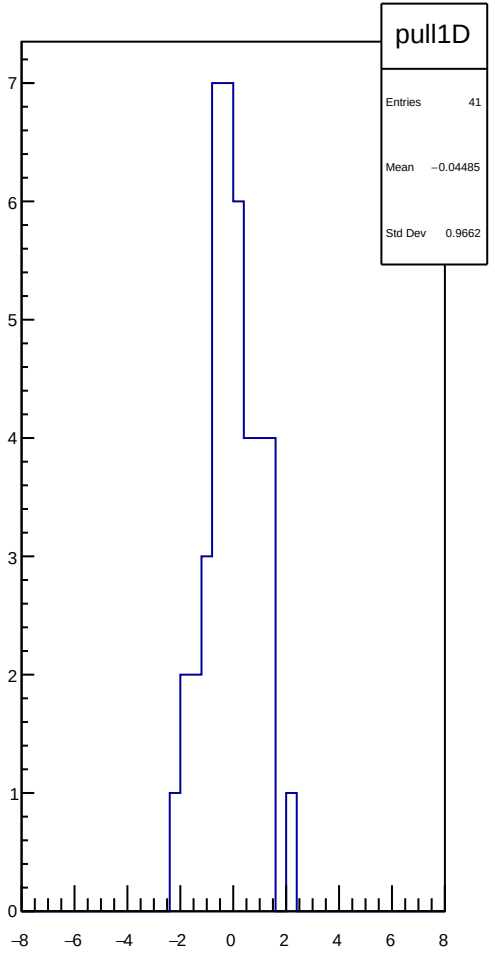

pull1D
Entries 41
Mean −0.01397
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

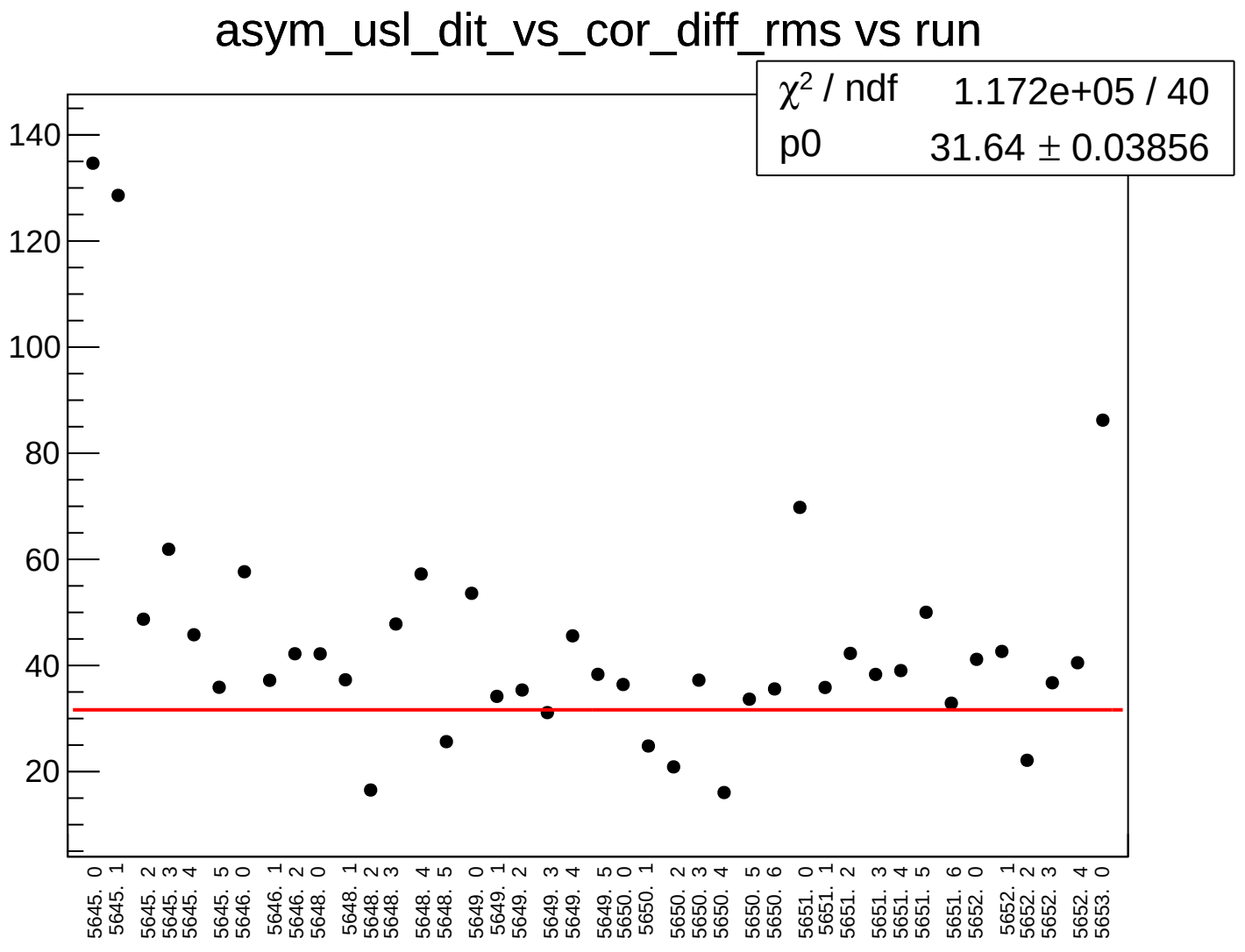

asym_usl_rms vs run
χ² / ndf 2871 / 40
p0 2113 ± 2.382
2500
2400
2300
2200
2100
2000
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

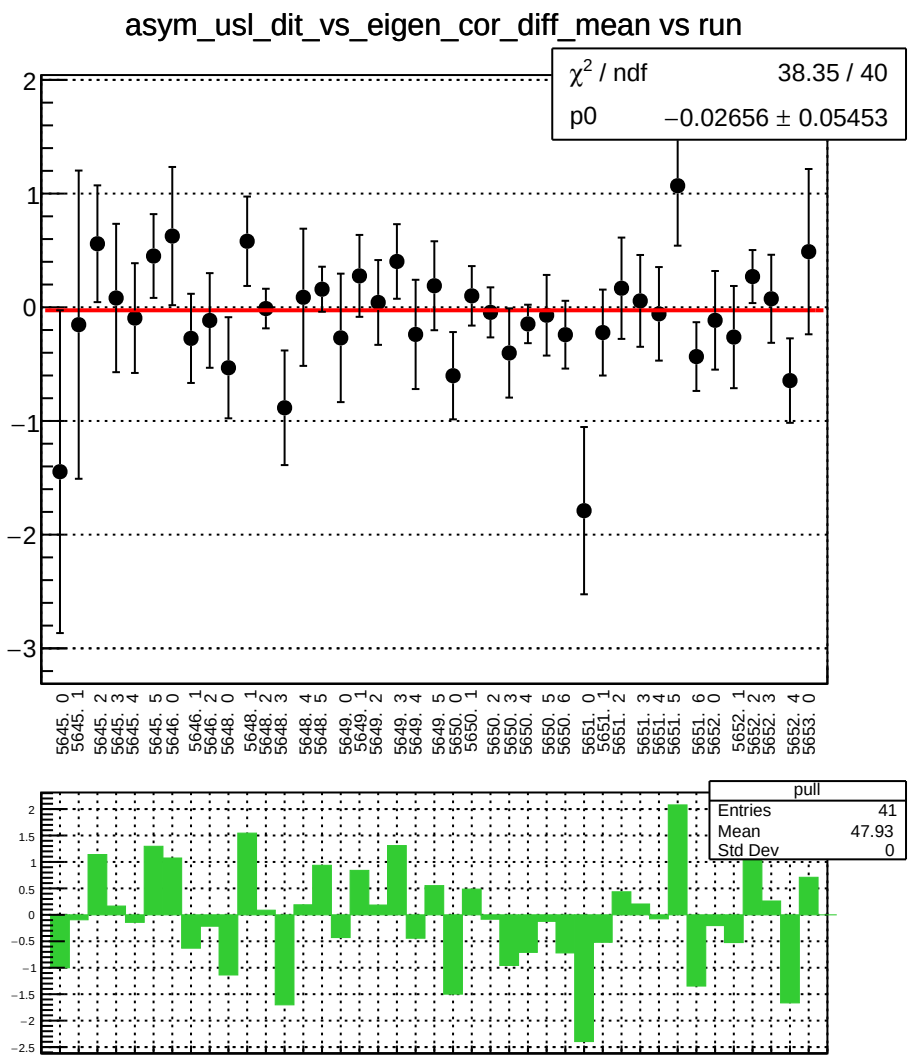

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.12 / 40
p0 4.028e−15 ± 1.672e−13
pull
Entries 41
Mean 307.9
Std Dev 0
pull1D
Entries 41
Mean −0.01324
Std Dev 0.9121

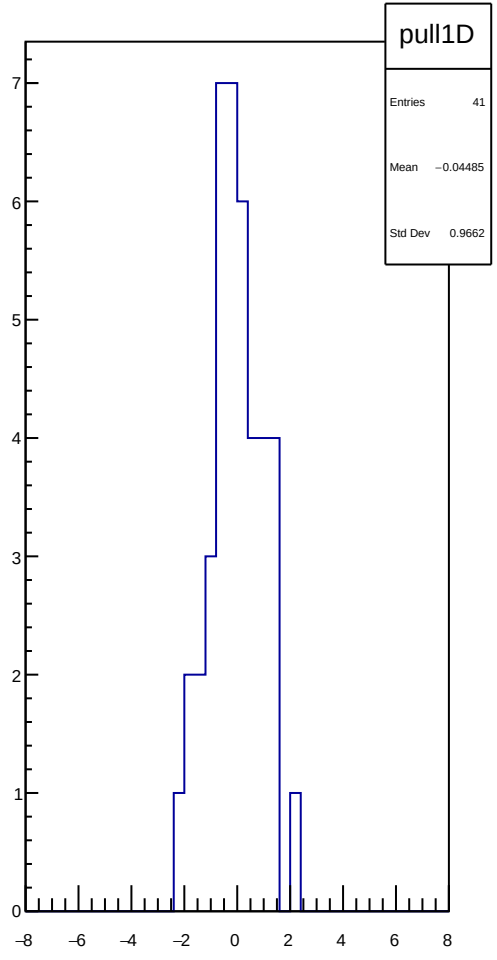

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.239e+05 / 40
p0 8.897e−11 ± 1.182e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

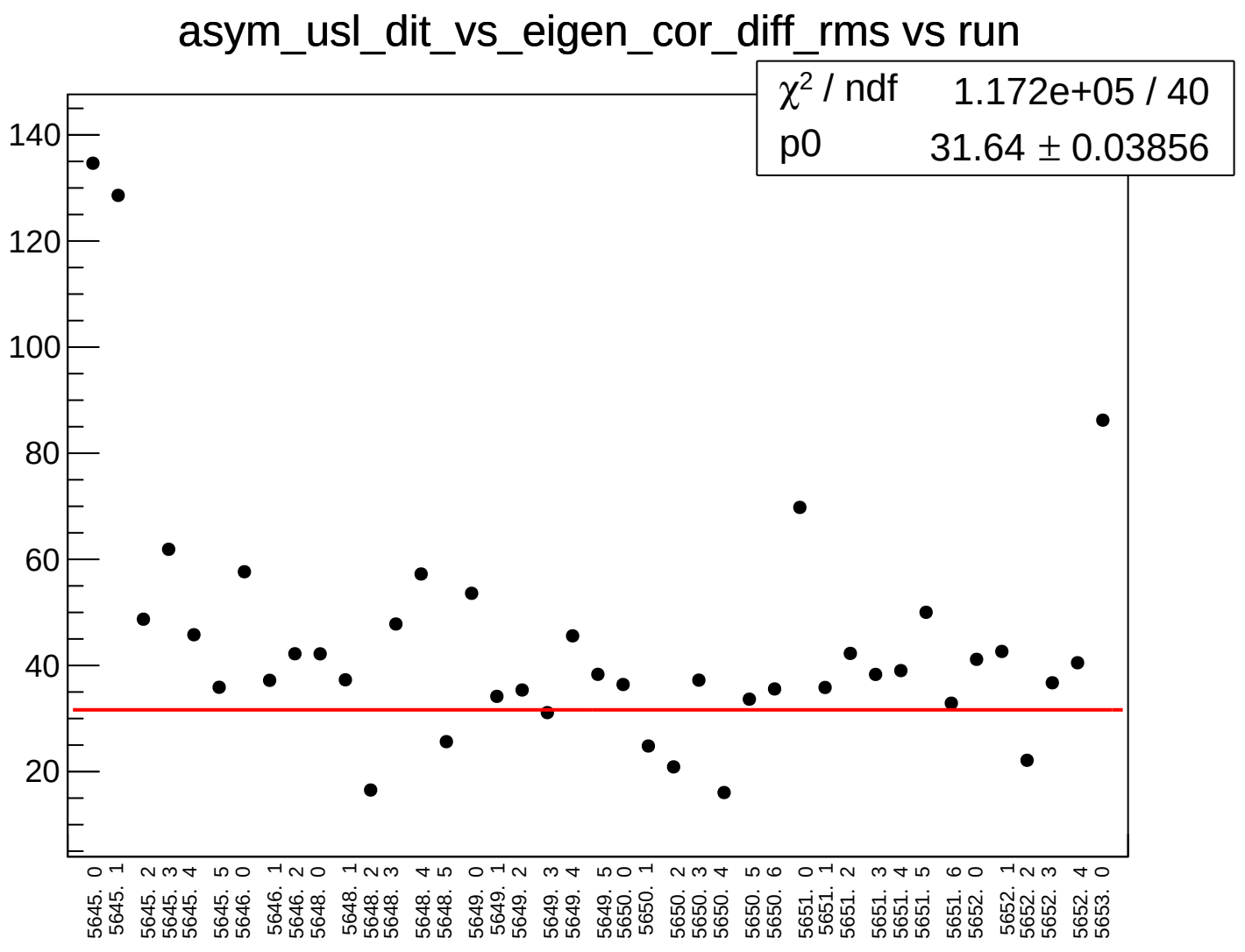

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 38.35 / 40
p0 −0.02656 ± 0.05453
pull
Entries 41
Mean 47.93
Std Dev 0

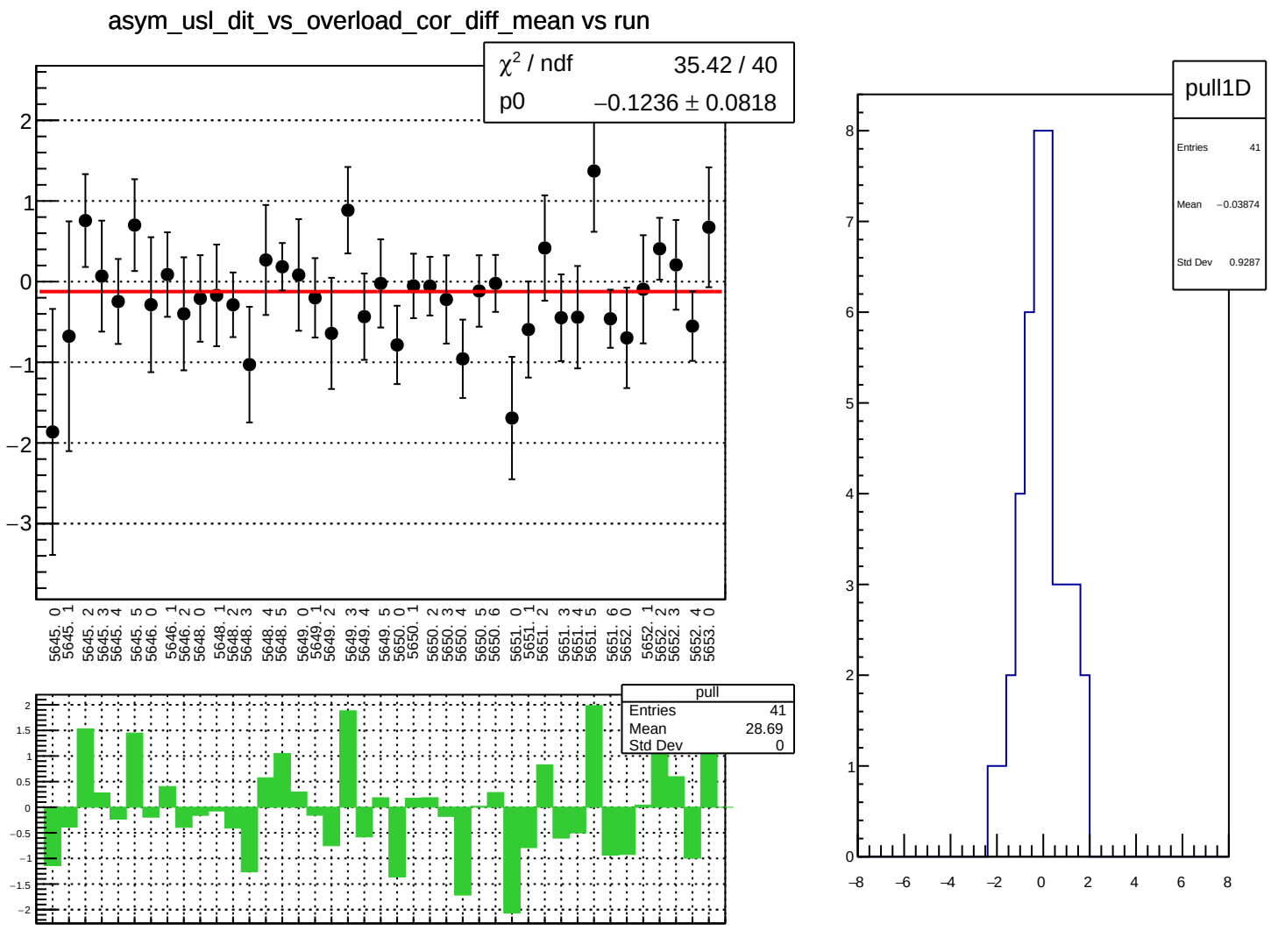

pull1D
Entries 41
Mean −0.04485
Std Dev 0.9662

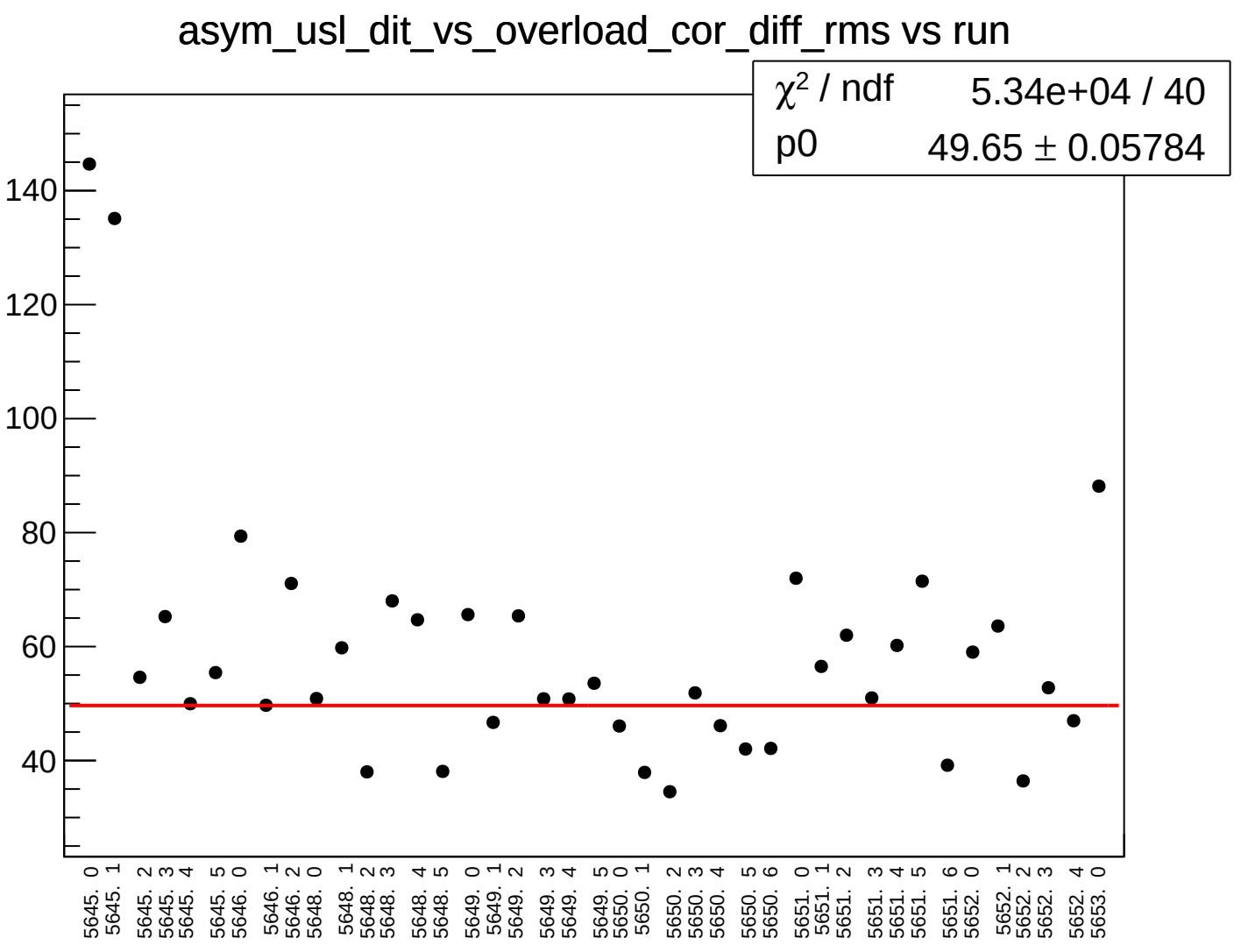

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.172e+05 / 40
p0 31.64 ± 0.03856
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

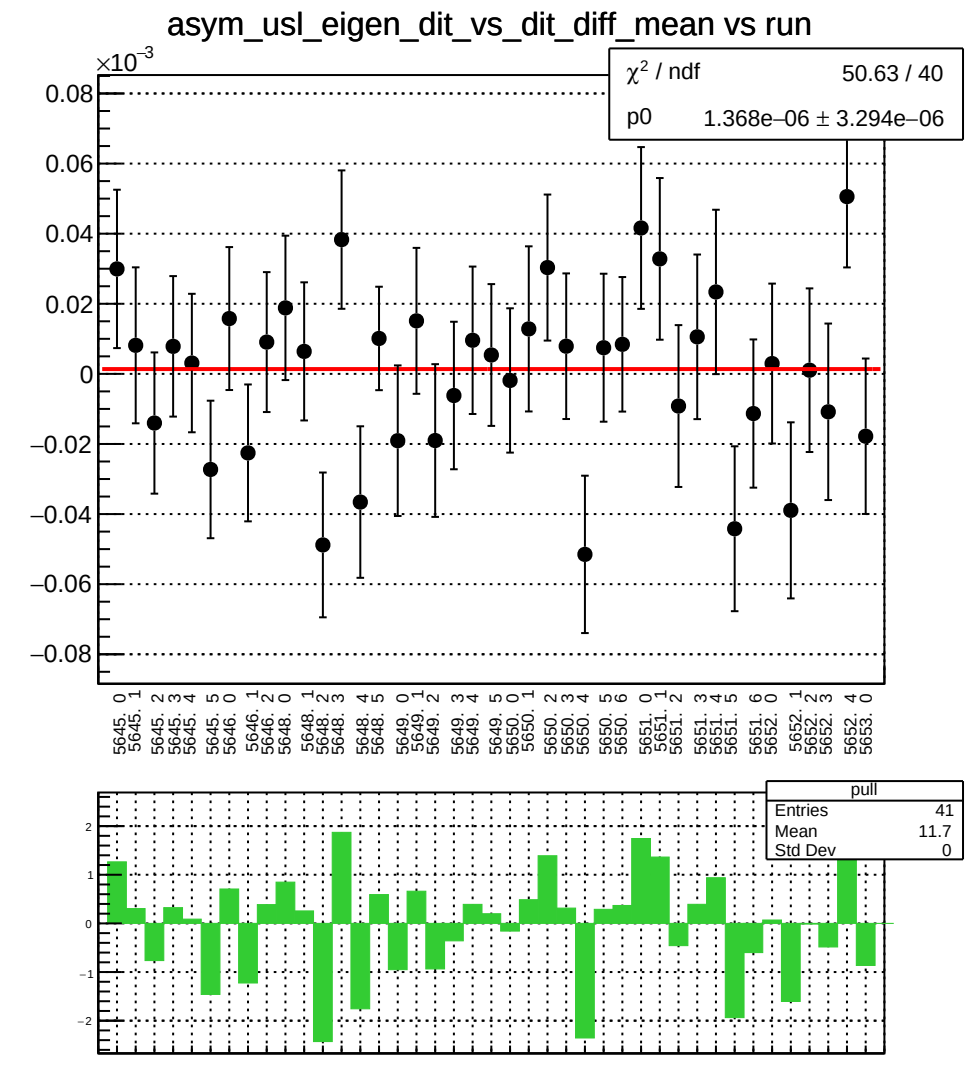

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.35 / 40
p0 −0.02656 ± 0.05453
pull
Entries 41
Mean 47.93
Std Dev 0

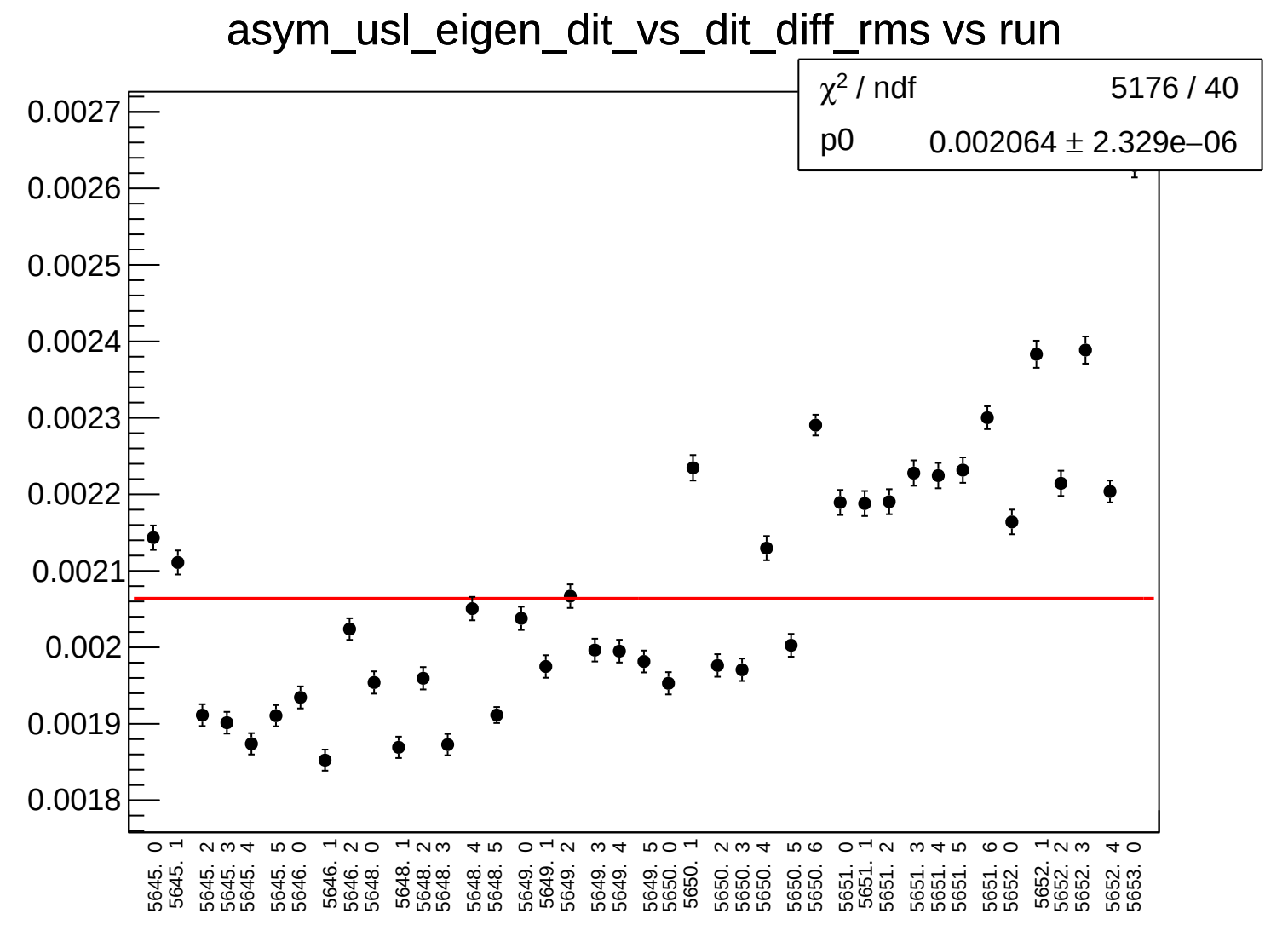

pull1D
Entries 41
Mean −0.04485
Std Dev 0.9662

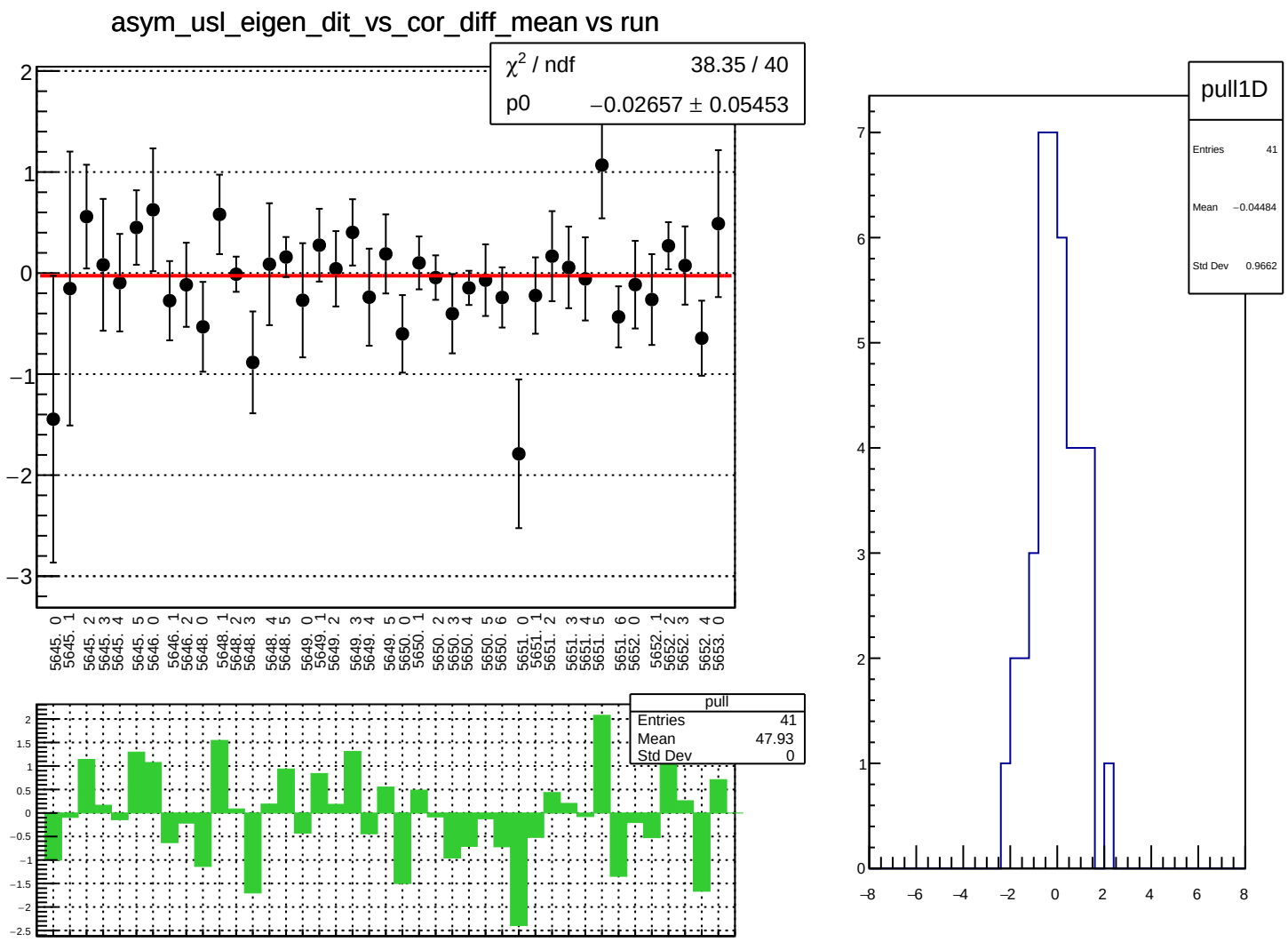

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.172e+05 / 40
p0 31.64 ± 0.03856
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

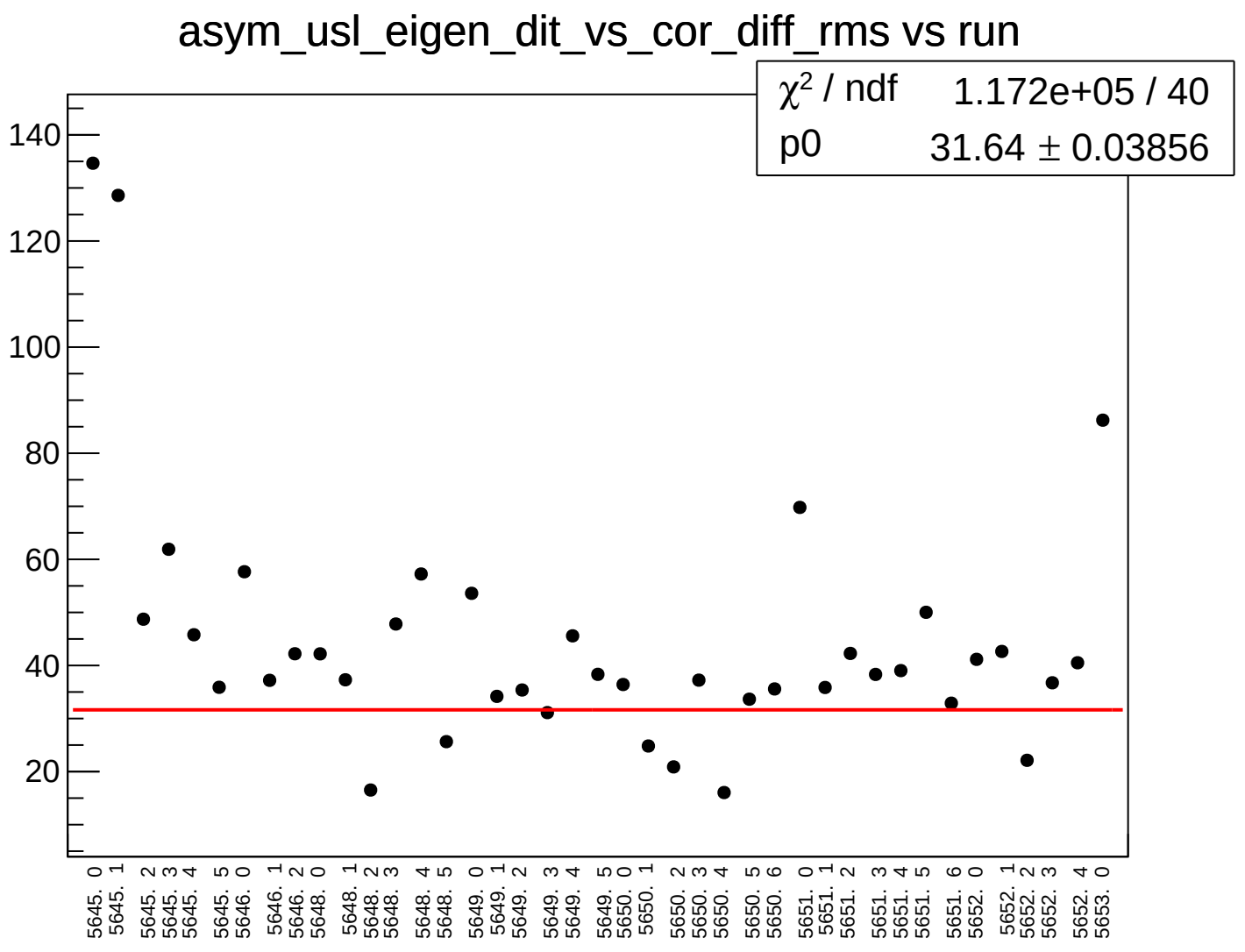

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 35.42 / 40
p0 −0.1236 ± 0.0818
pull
Entries 41
Mean 28.69
Std Dev 0
pull1D
Entries 41
Mean −0.03874
Std Dev 0.9287

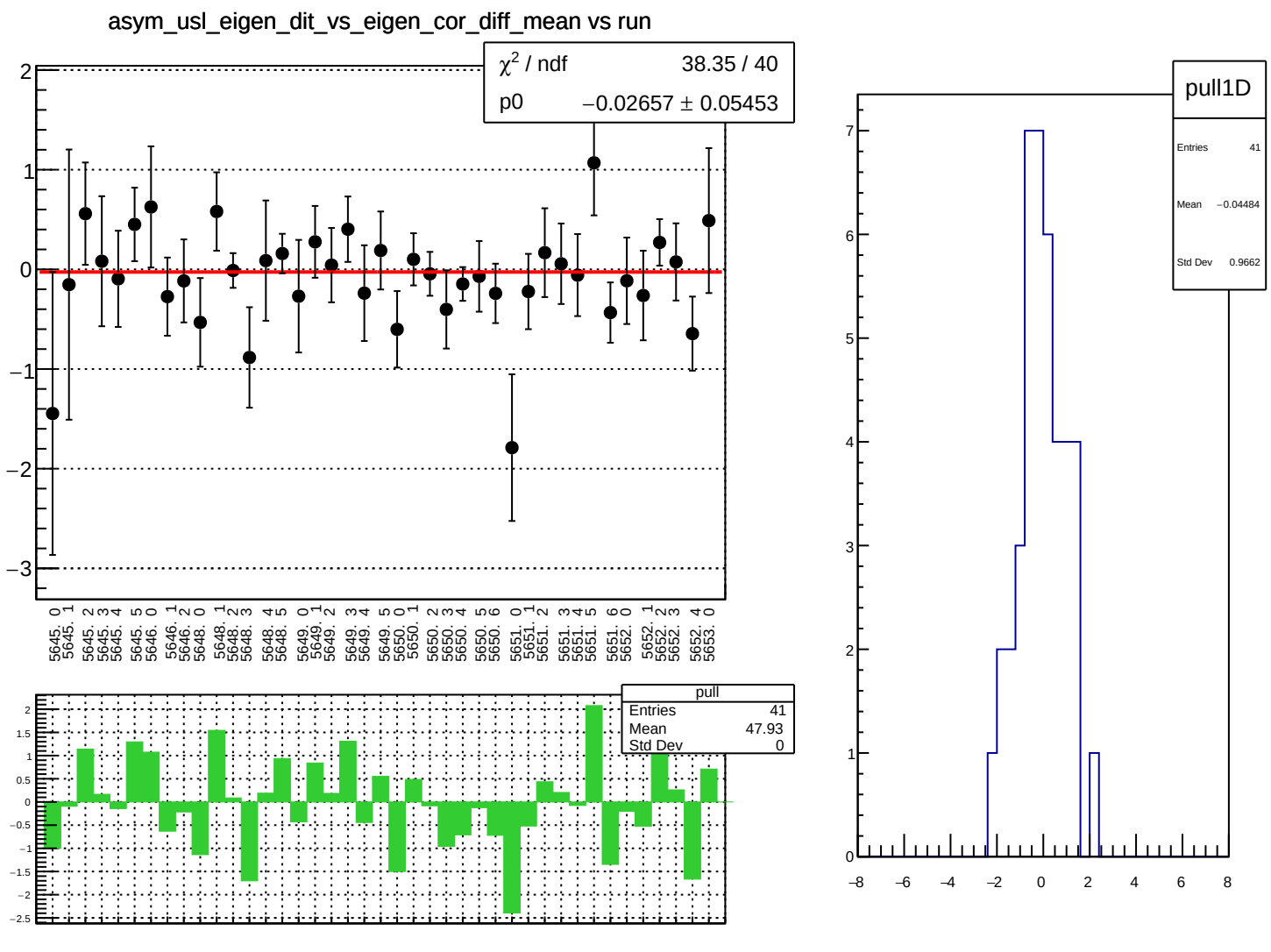

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.34e+04 / 40
p0 49.65 ± 0.05784
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

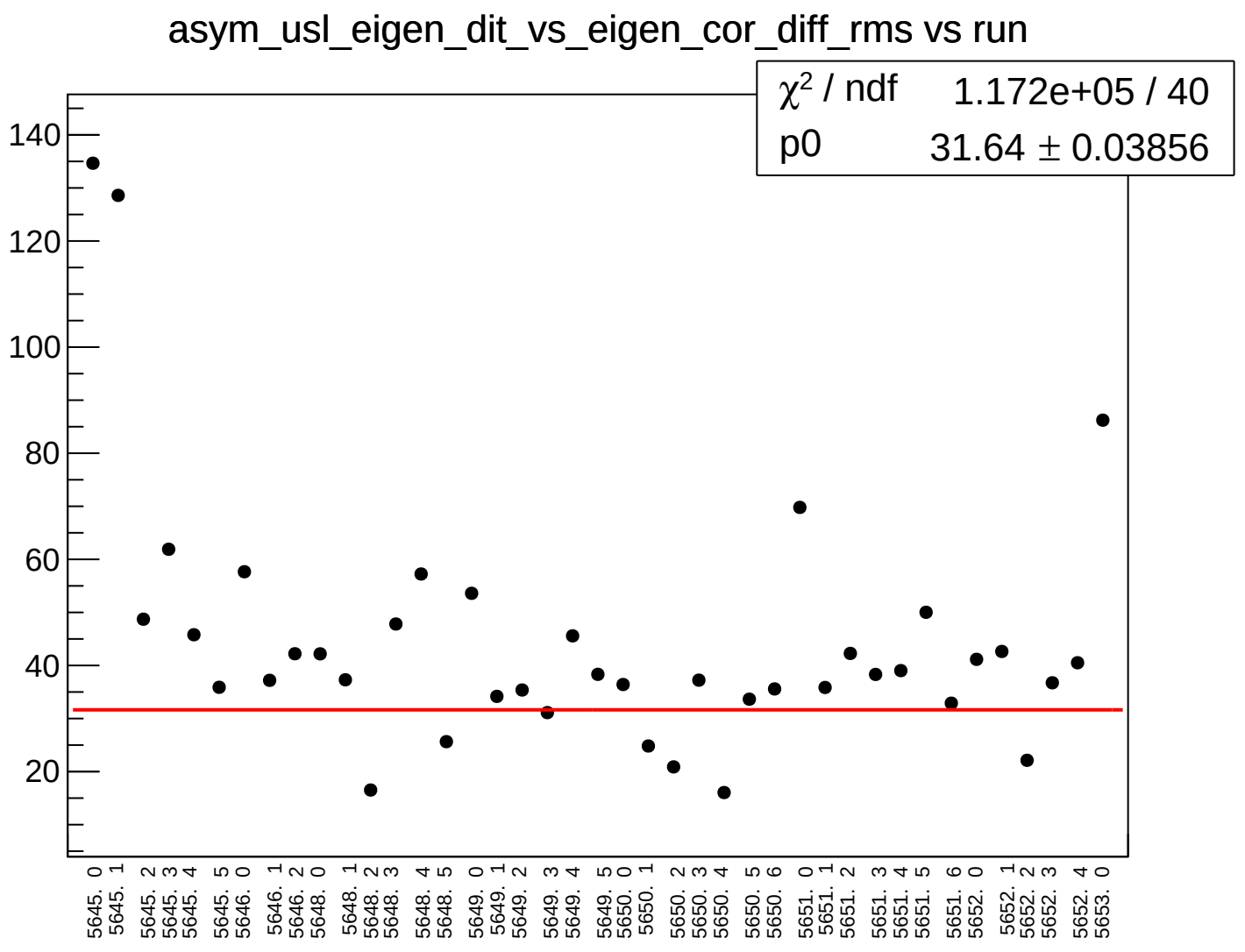

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.63 / 40
p0 1.368e−06 ± 3.294e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 11.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01631
Std Dev 1.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

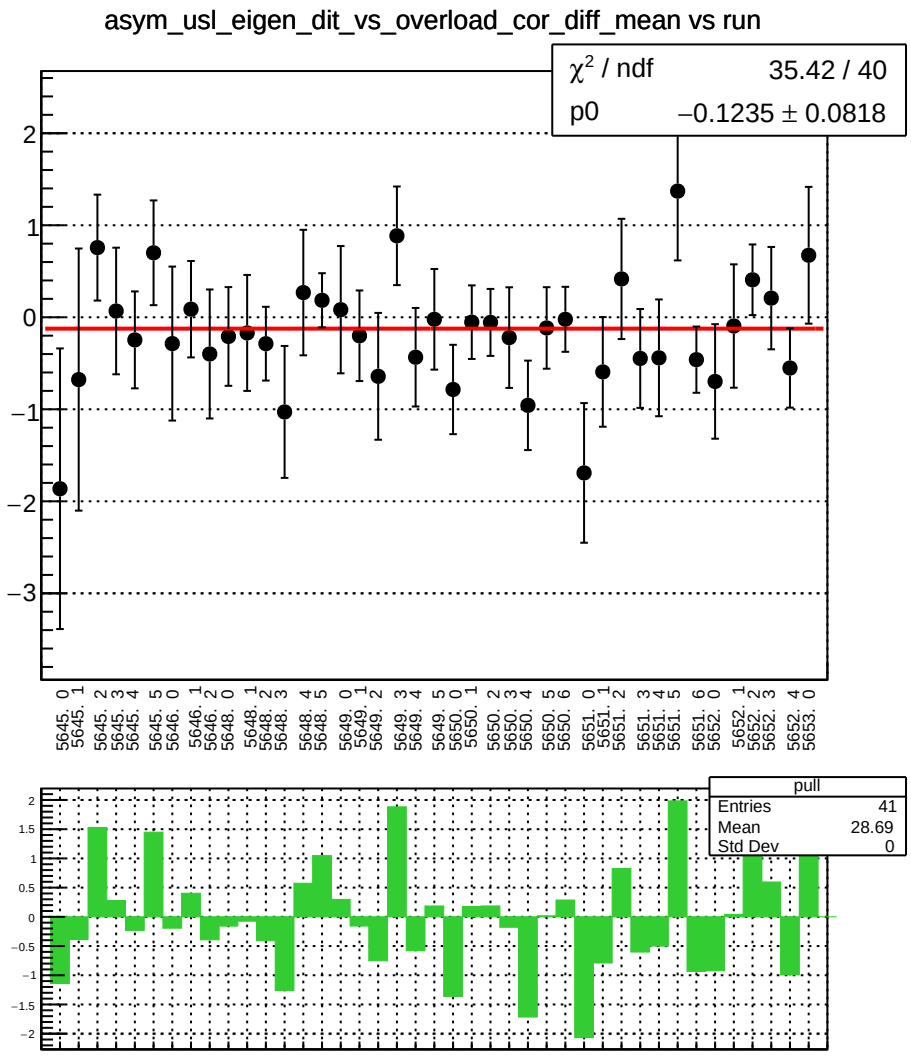

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5176 / 40
p0 0.002064 ± 2.329e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

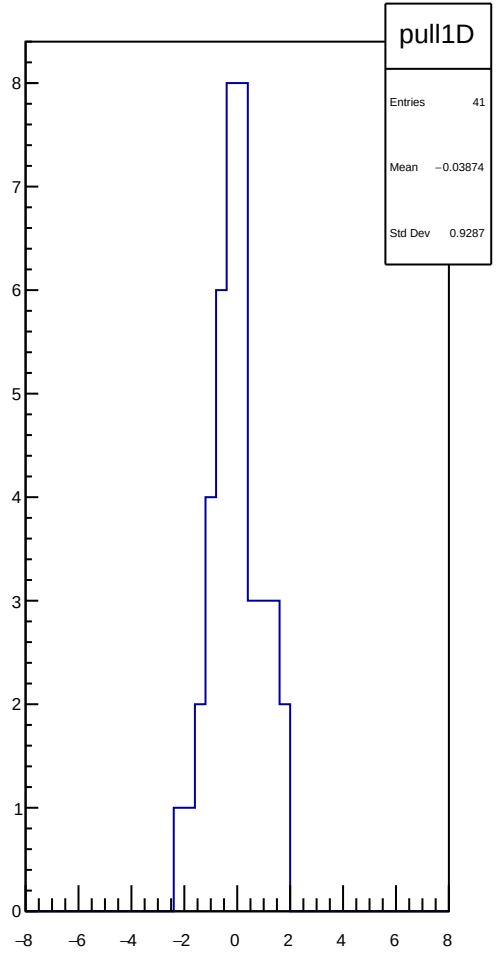

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.35 / 40
p0 −0.02657 ± 0.05453
pull
Entries 41
Mean 47.93
Std Dev 0
pull1D
Entries 41
Mean −0.04484
Std Dev 0.9662

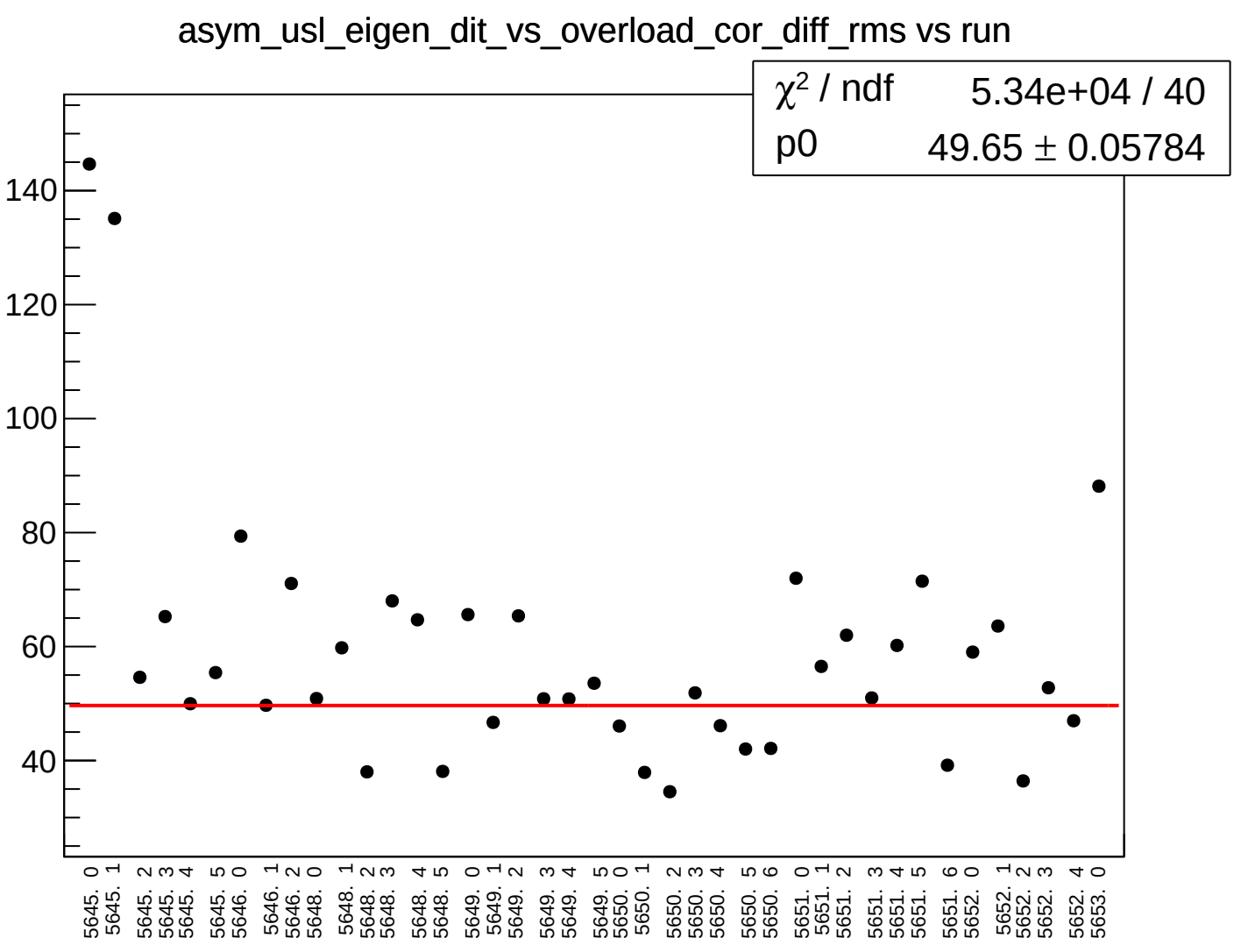

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.172e+05 / 40
p0 31.64 ± 0.03856
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

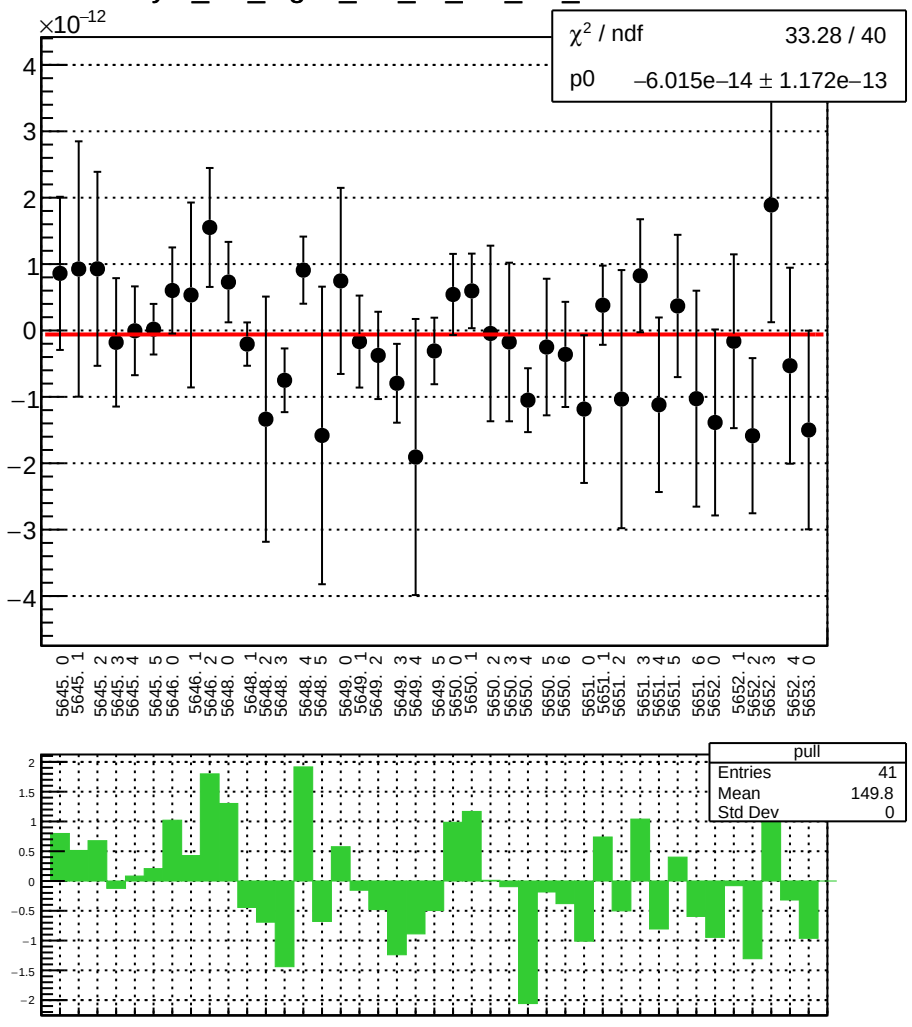

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.35 / 40
p0 −0.02657 ± 0.05453
pull
Entries 41
Mean 47.93
Std Dev 0
pull1D
Entries 41
Mean −0.04484
Std Dev 0.9662

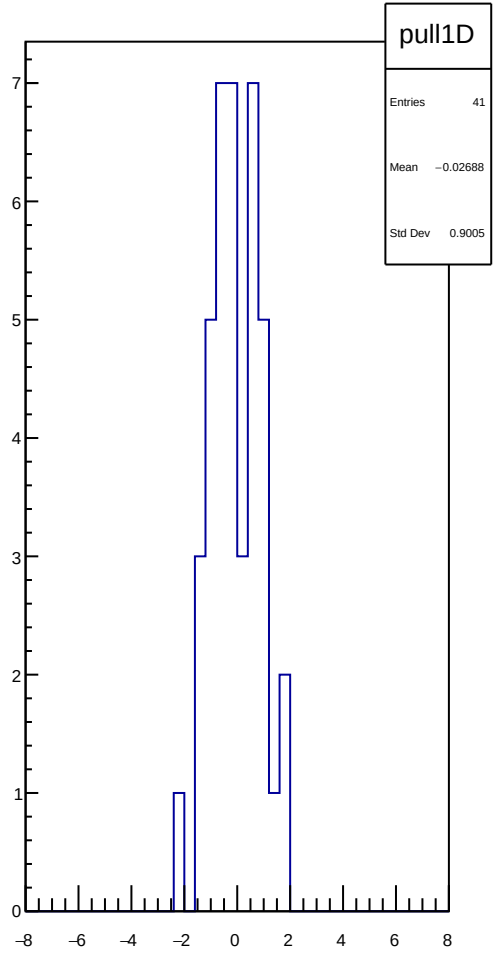

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.172e+05 / 40
p0 31.64 ± 0.03856
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

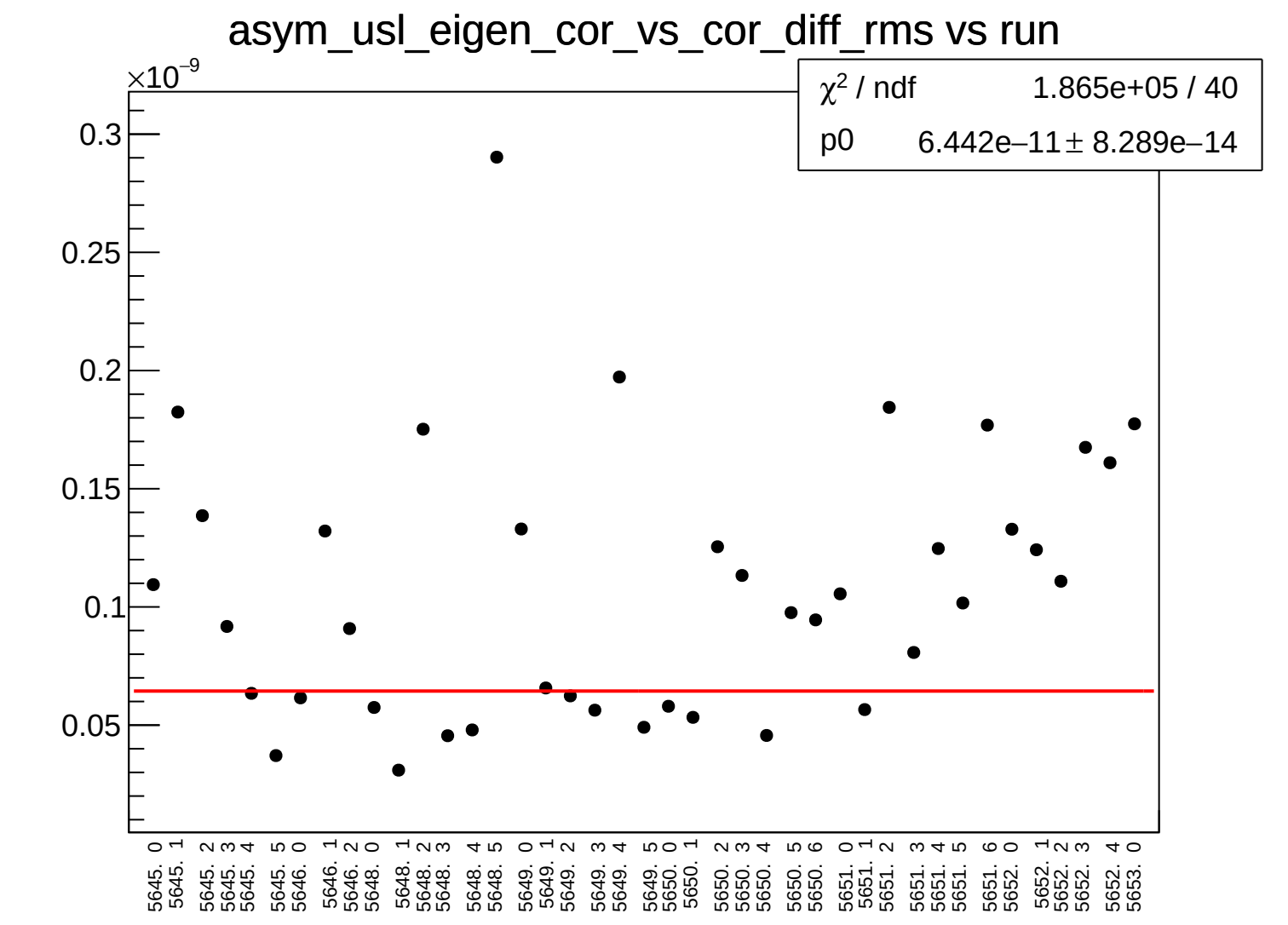

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 35.42 / 40
p0 −0.1235 ± 0.0818
pull
Entries 41
Mean 28.69
Std Dev 0

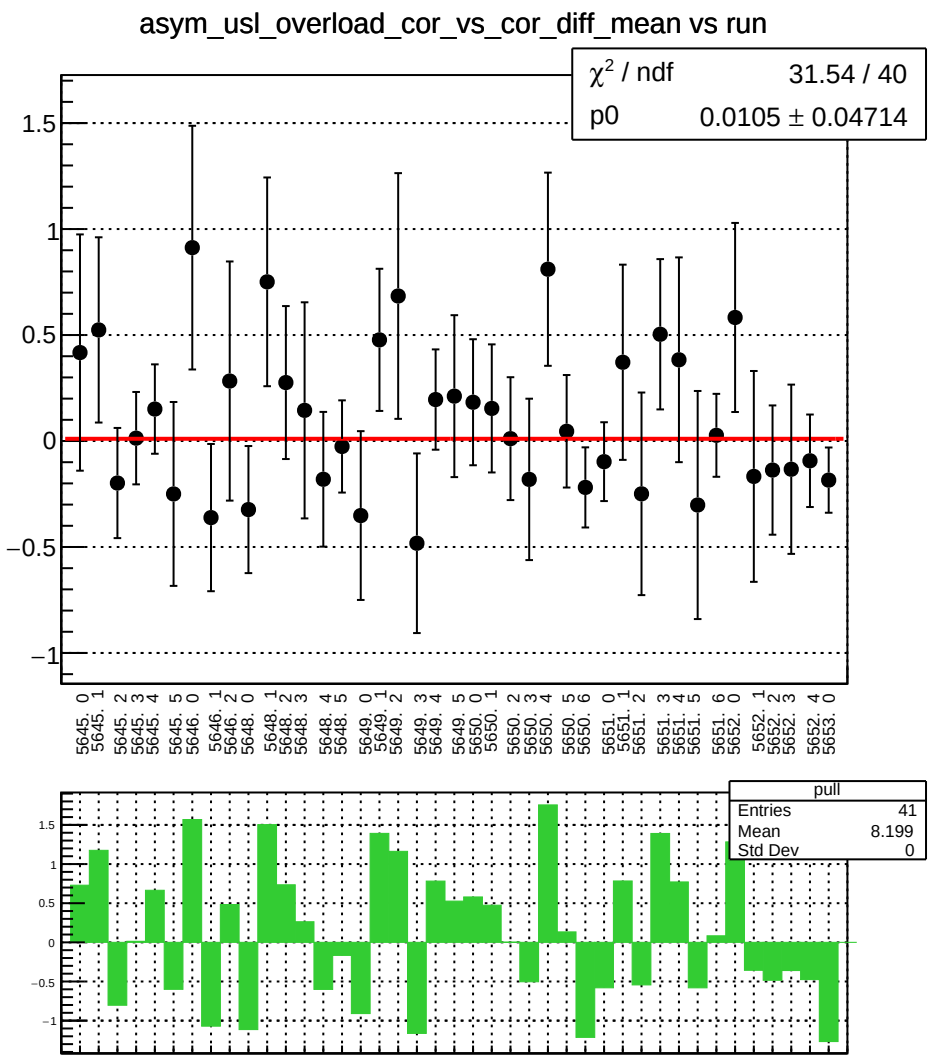

pull1D
Entries 41
Mean −0.03874
Std Dev 0.9287

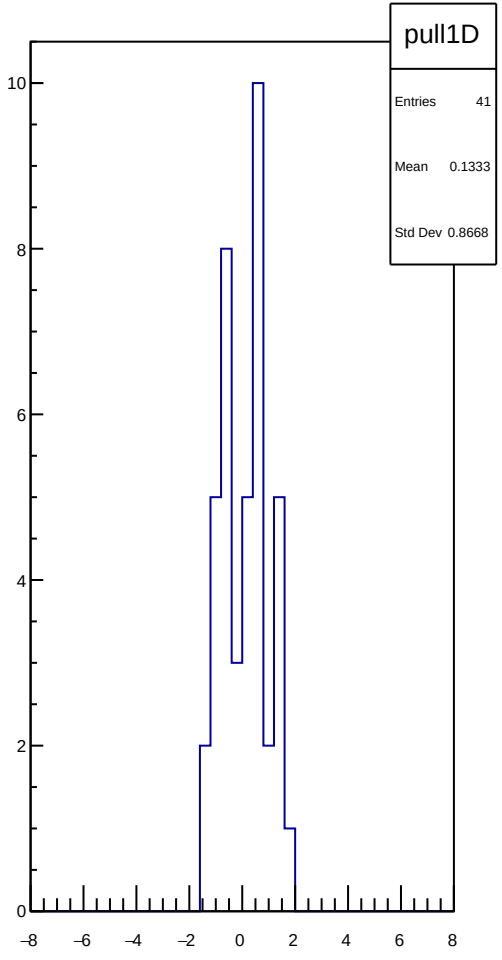

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.34e+04 / 40
p0 49.65 ± 0.05784
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

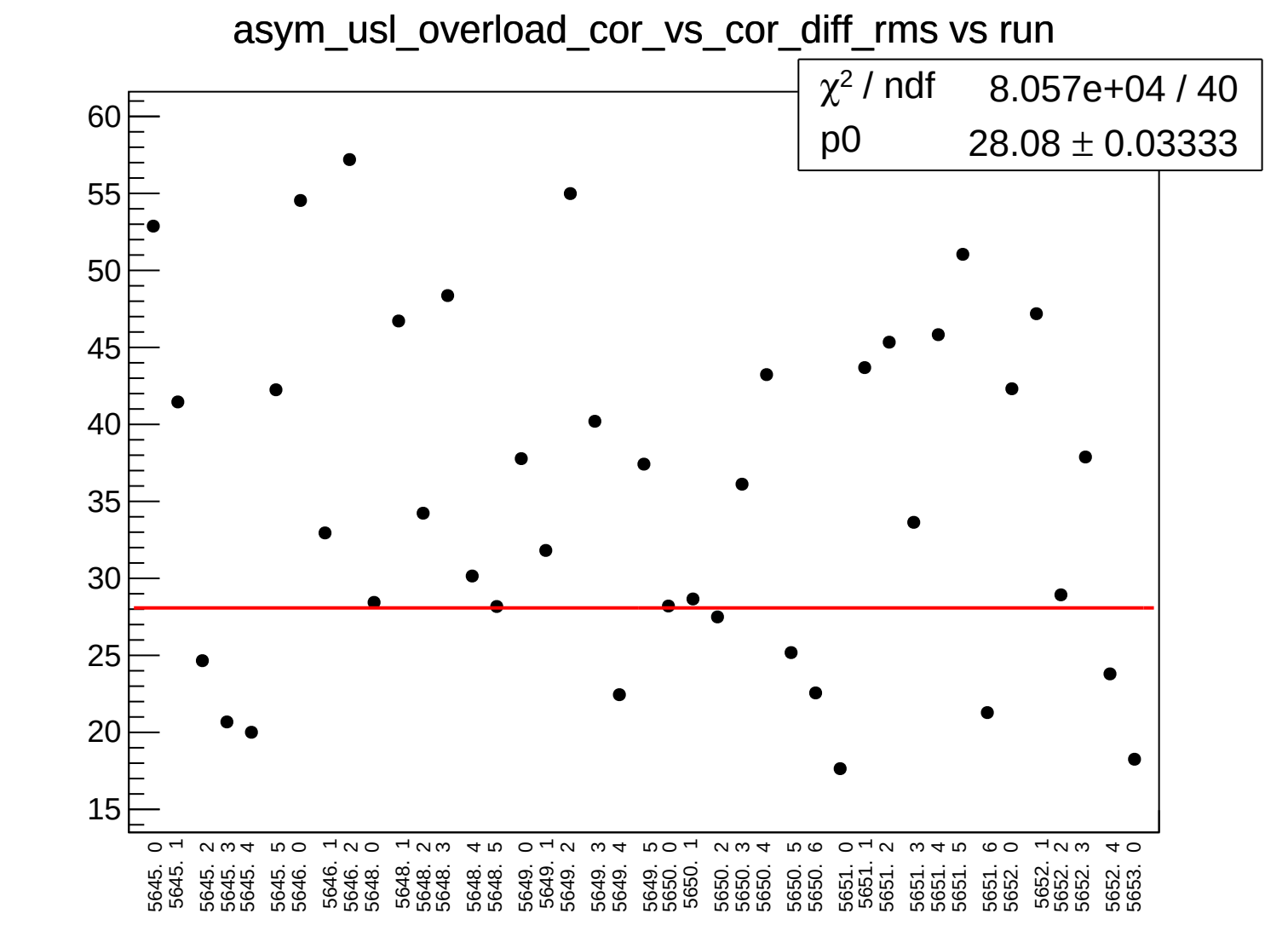

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.28 / 40
p0 −6.015e−14 ± 1.172e−13
pull
Entries 41
Mean 149.8
Std Dev 0

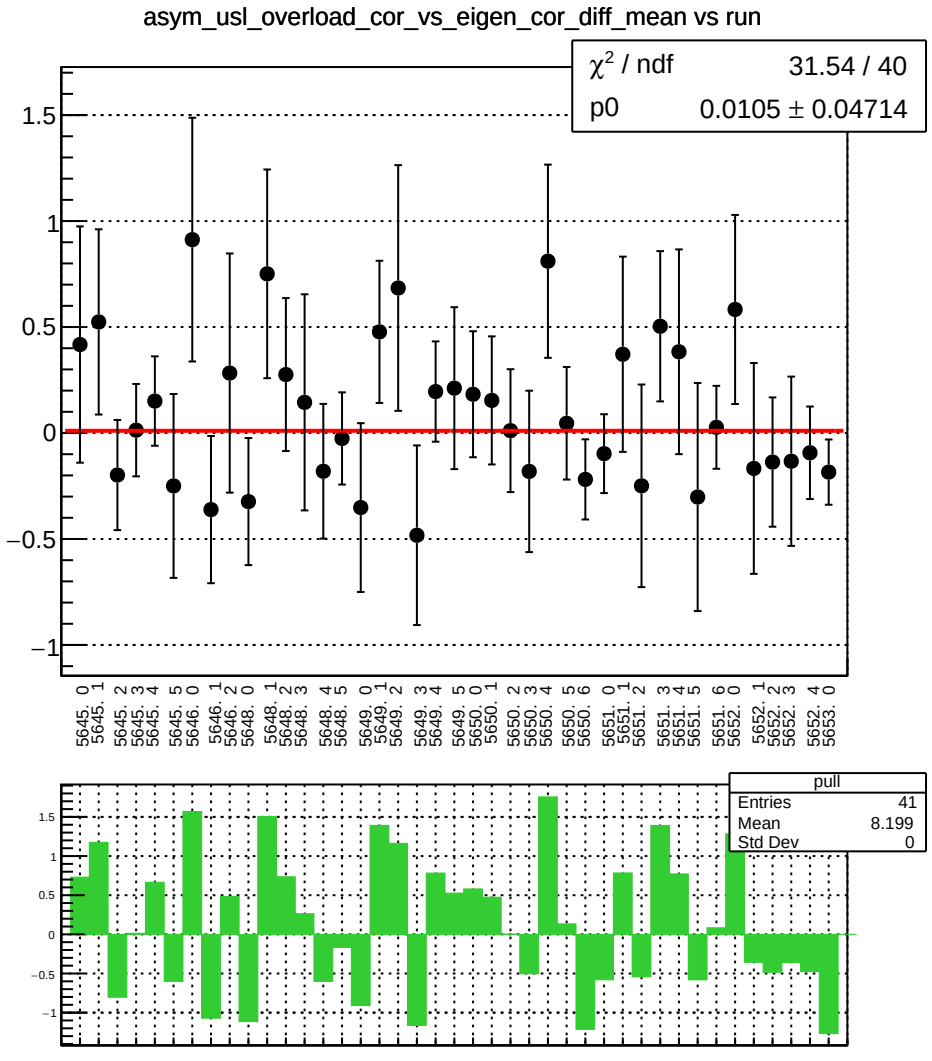

pull1D
Entries 41
Mean −0.02688
Std Dev 0.9005

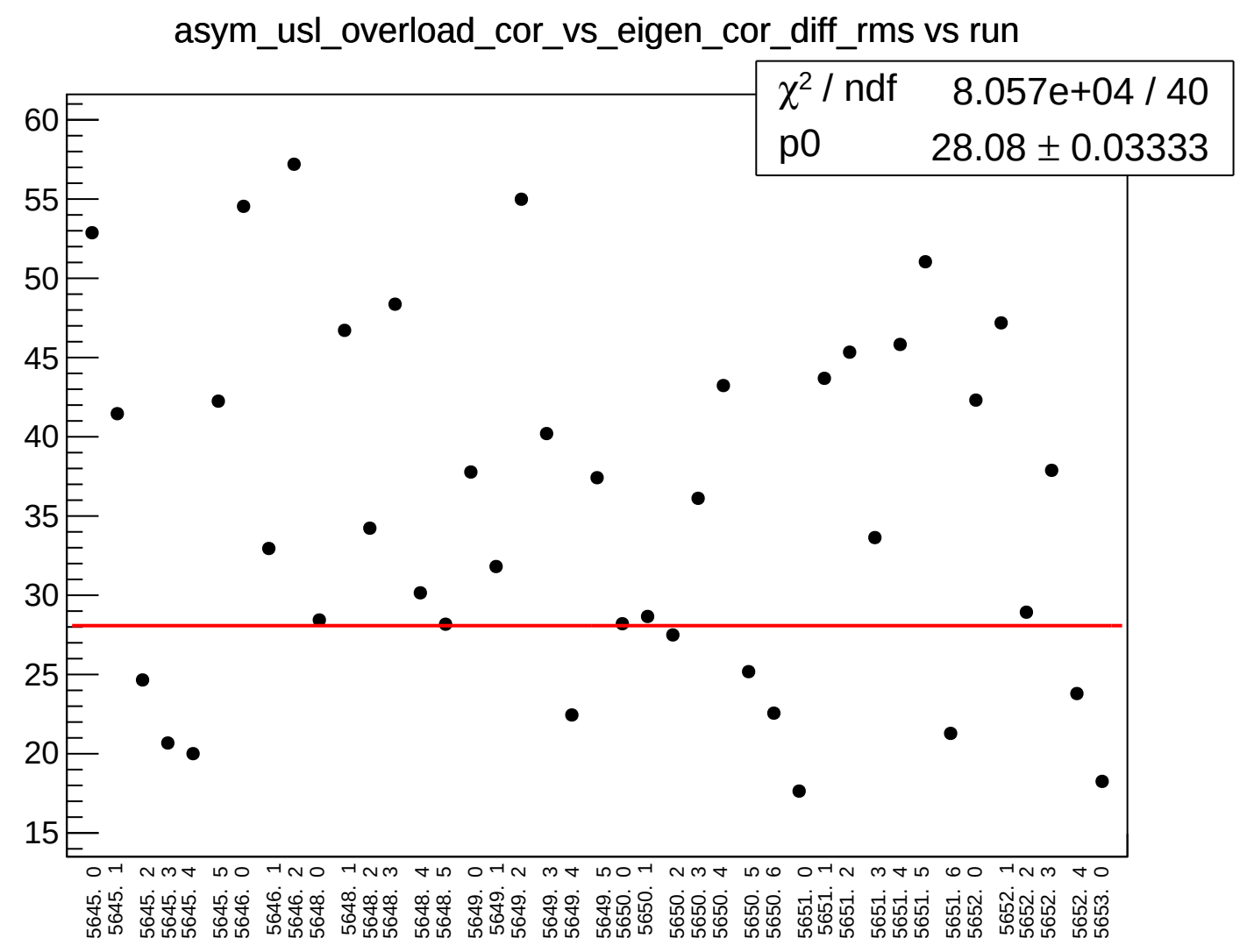

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.865e+05 / 40
p0 6.442e−11 ± 8.289e−14
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

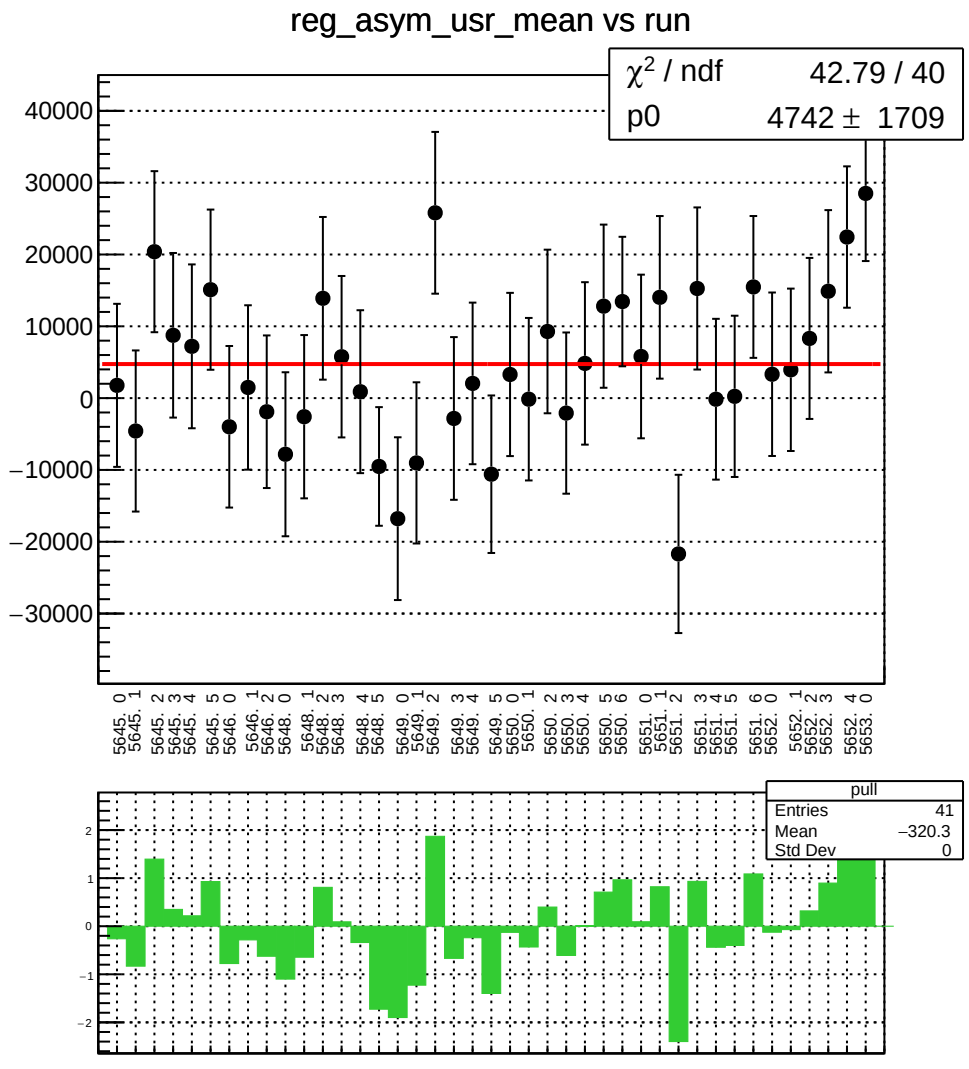

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 31.54 / 40
p0 0.0105 ± 0.04714
pull
Entries 41
Mean 8.199
Std Dev 0

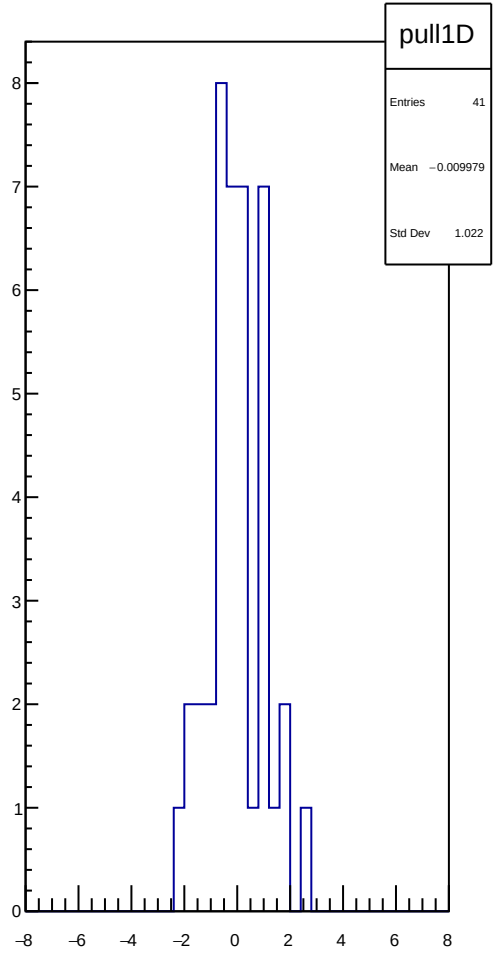

pull1D
Entries 41
Mean 0.1333
Std Dev 0.8668

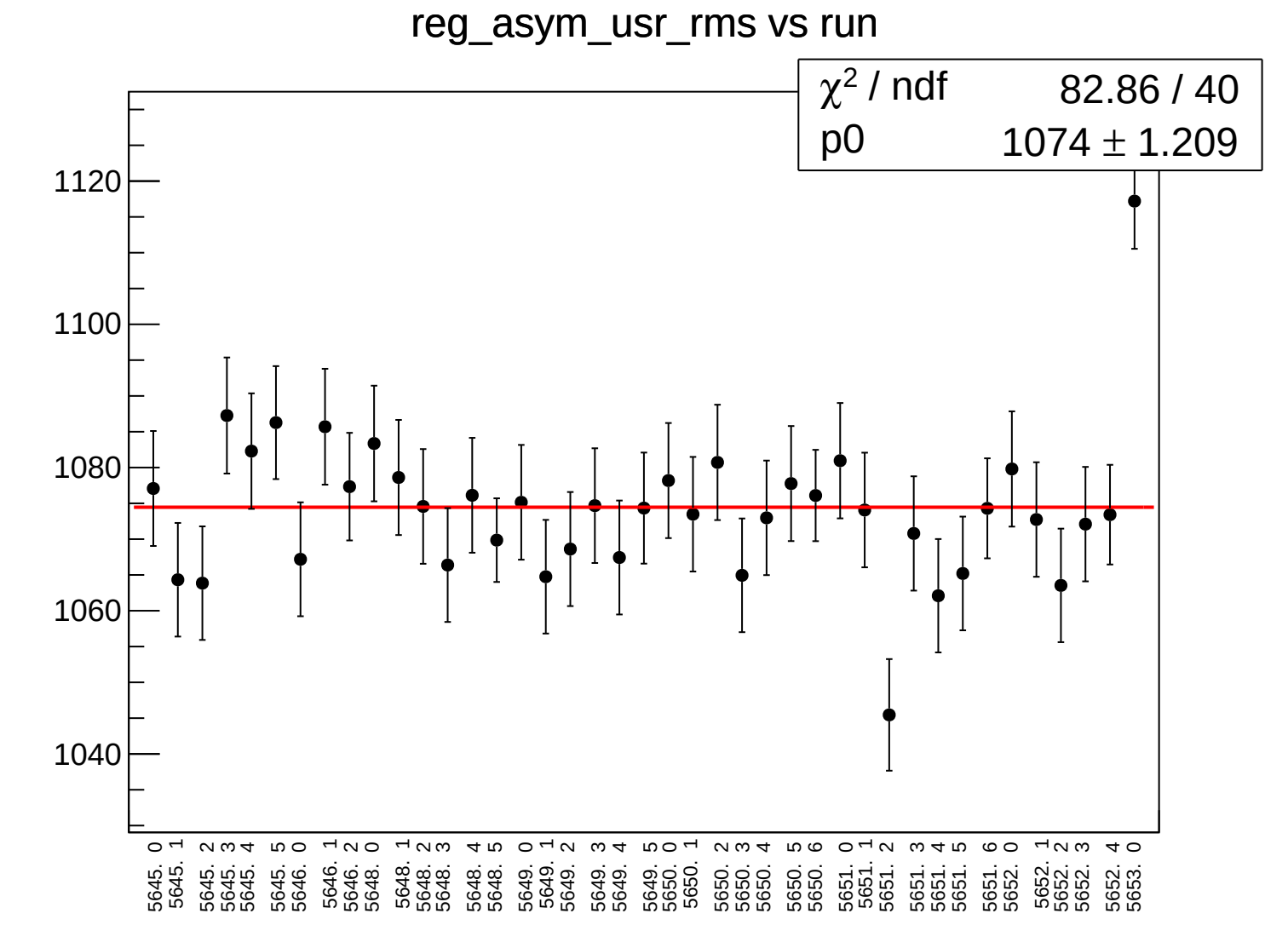

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.057e+04 / 40
p0 28.08 ± 0.03333
60
55
50
45
40
35
30
25
20
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

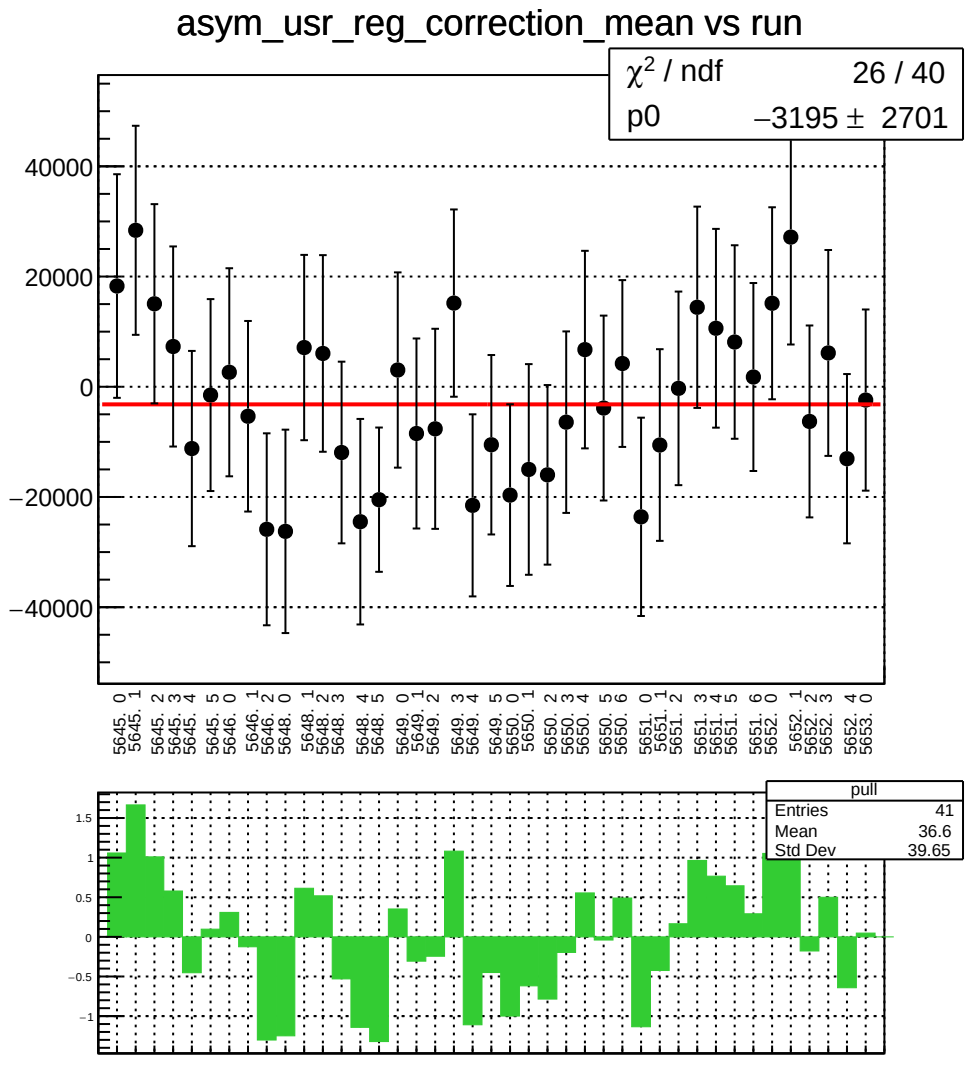

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.54 / 40
p0 0.0105 ± 0.04714
pull
Entries 41
Mean 8.199
Std Dev 0
pull1D
Entries 41
Mean 0.1333
Std Dev 0.8668

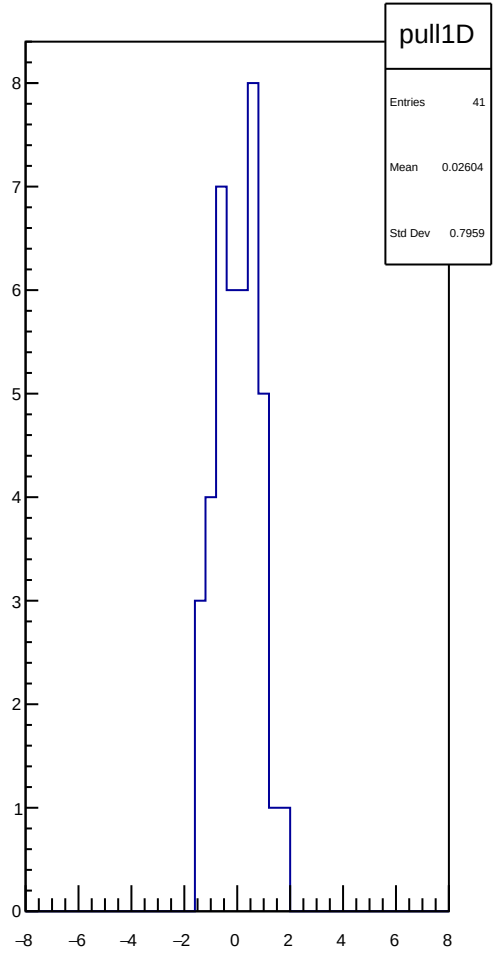

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.057e+04 / 40
p0 28.08 ± 0.03333
60
55
50
45
40
35
30
25
20
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

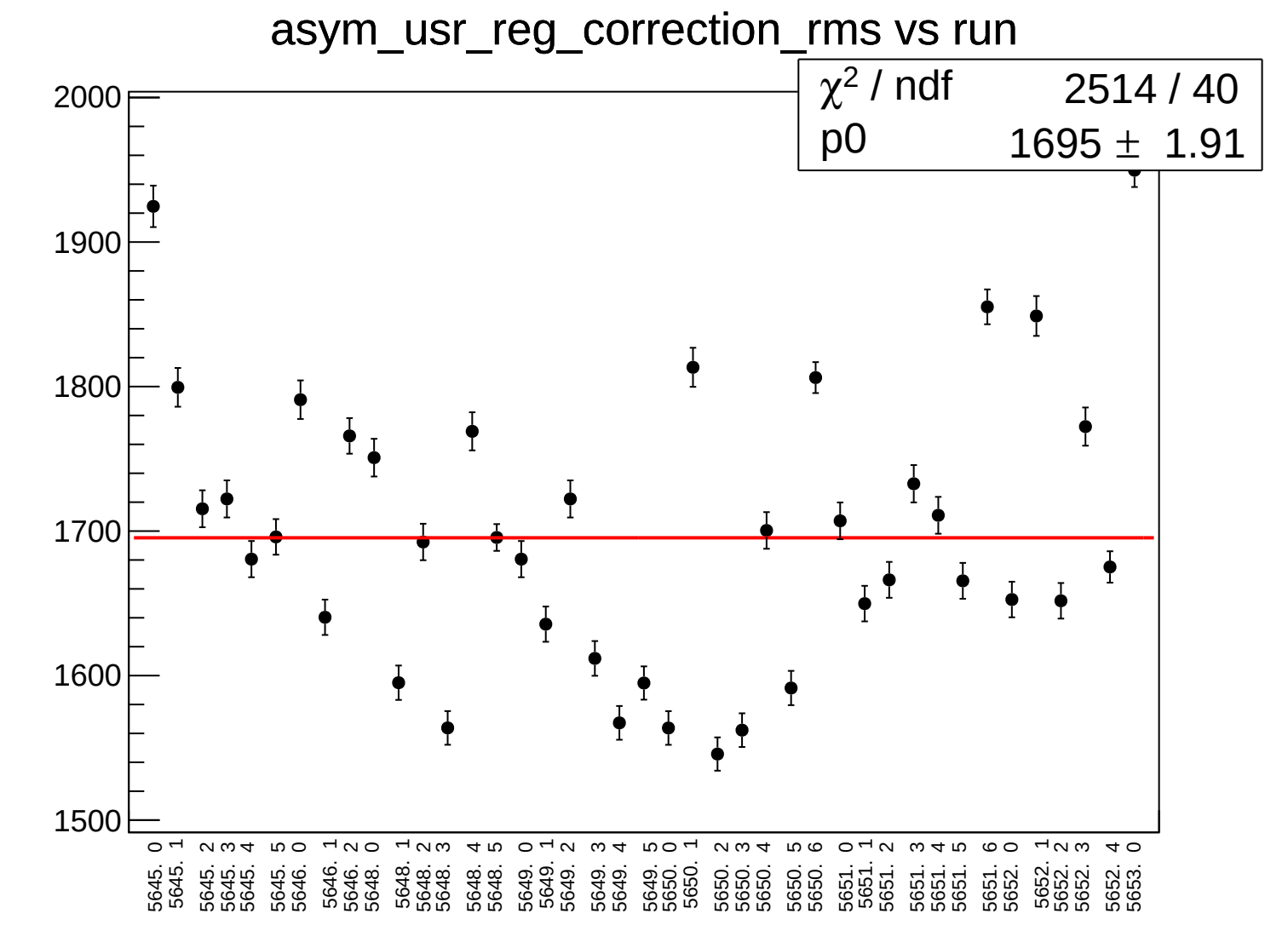

reg_asym_usr_mean vs run
χ² / ndf 42.79 / 40
p0 4742 ± 1709
40000
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −320.3
Std Dev 0
2
1
0
−1
−2

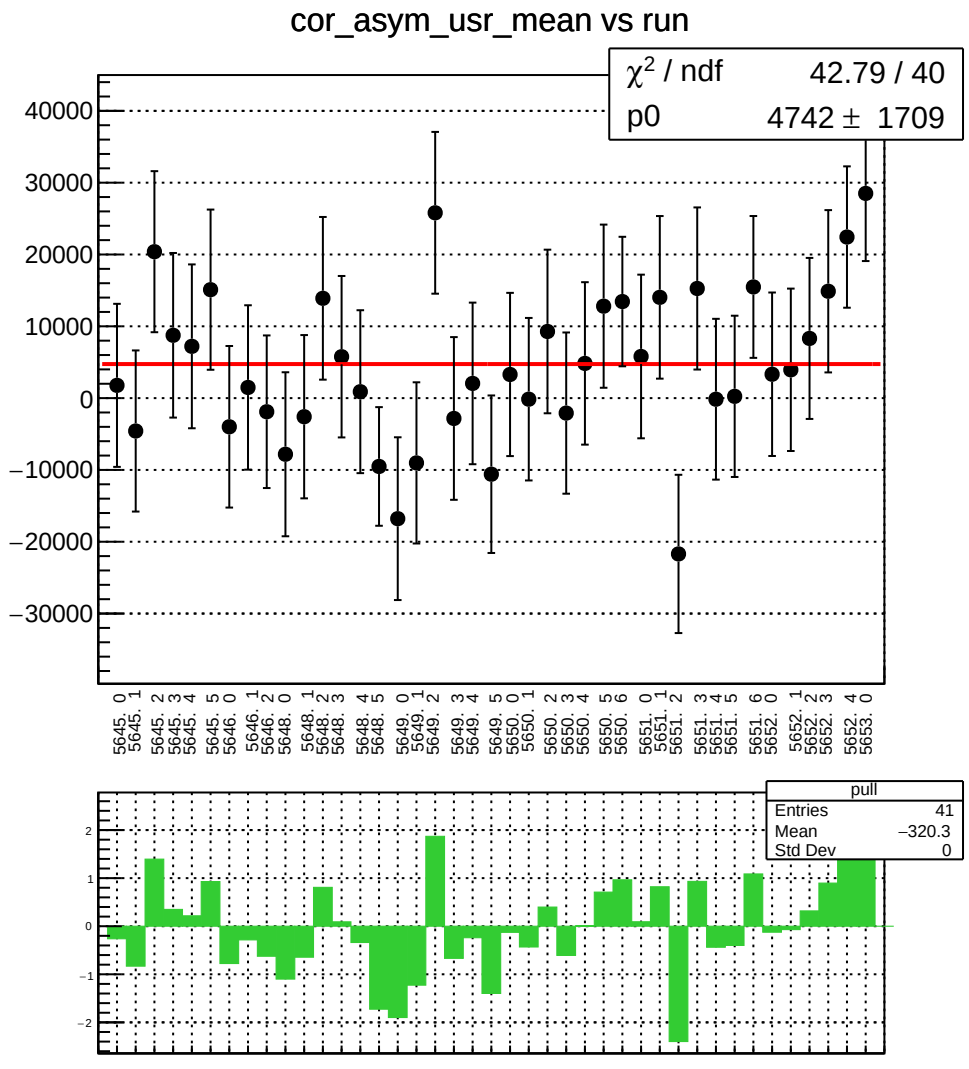

pull1D
Entries 41
Mean −0.009979
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

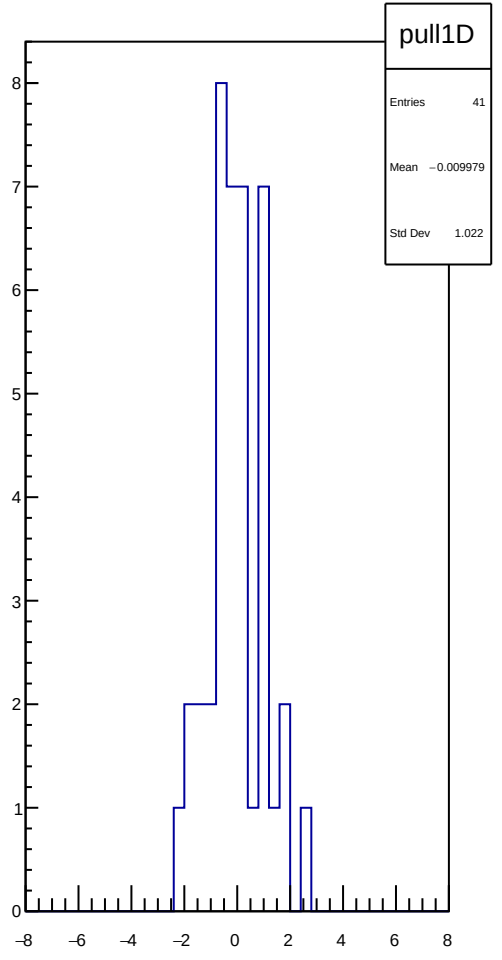

reg_asym_usr_rms vs run
χ² / ndf 82.86 / 40
p0 1074 ± 1.209
1120
1100
1080
1060
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

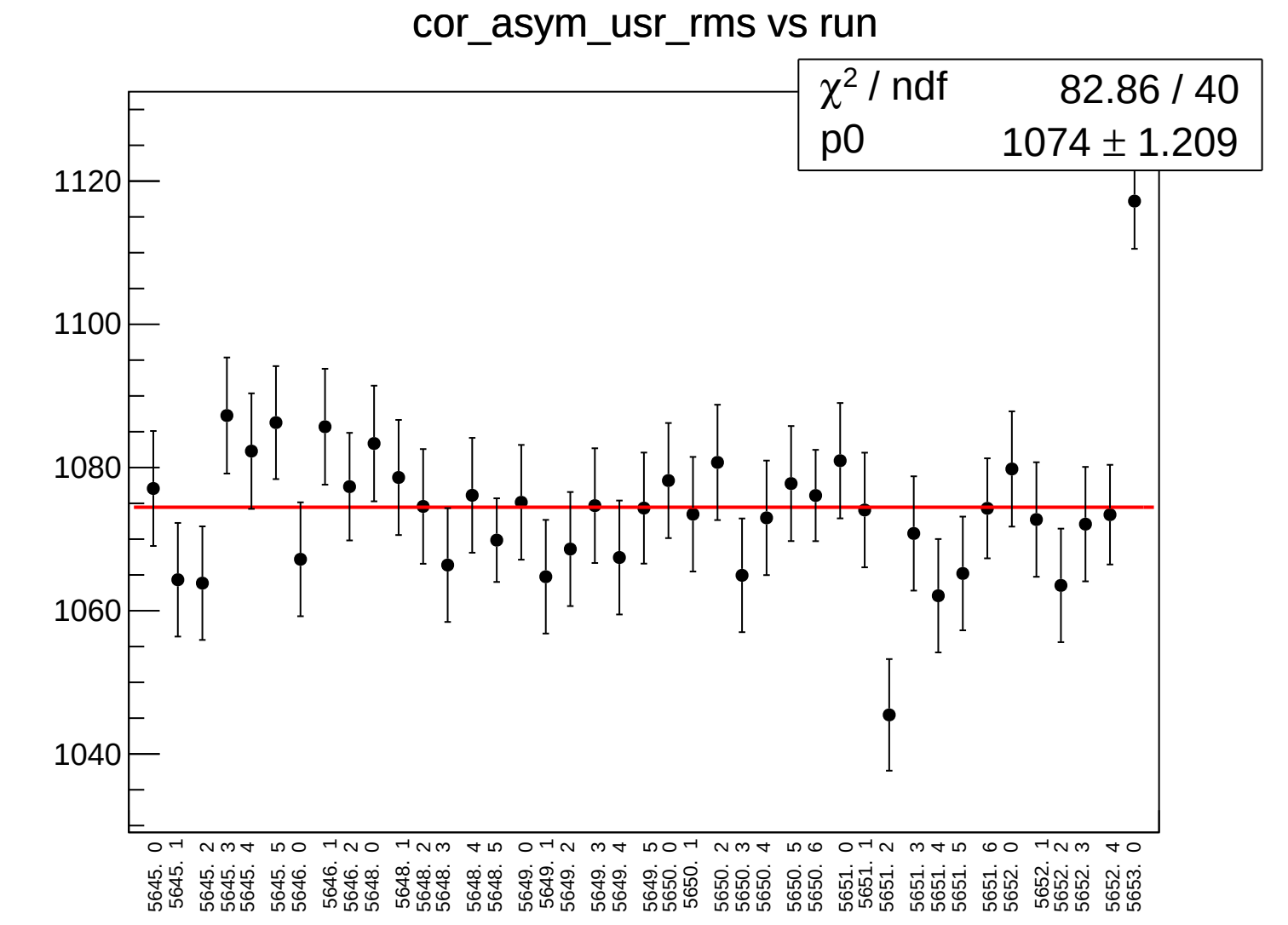

asym_usr_reg_correction_mean vs run
χ² / ndf 26 / 40
p0 −3195 ± 2701
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.6
Std Dev 39.65
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean 0.02604
Std Dev 0.7959
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_reg_correction_rms vs run
χ² / ndf 2514 / 40
p0 1695 ± 1.91
2000
1900
1800
1700
1600
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_usr_mean vs run
χ² / ndf 42.79 / 40
p0 4742 ± 1709
40000
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −320.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.009979
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_rms vs run
χ² / ndf 82.86 / 40
p0 1074 ± 1.209
1120
1100
1080
1060
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
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5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
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5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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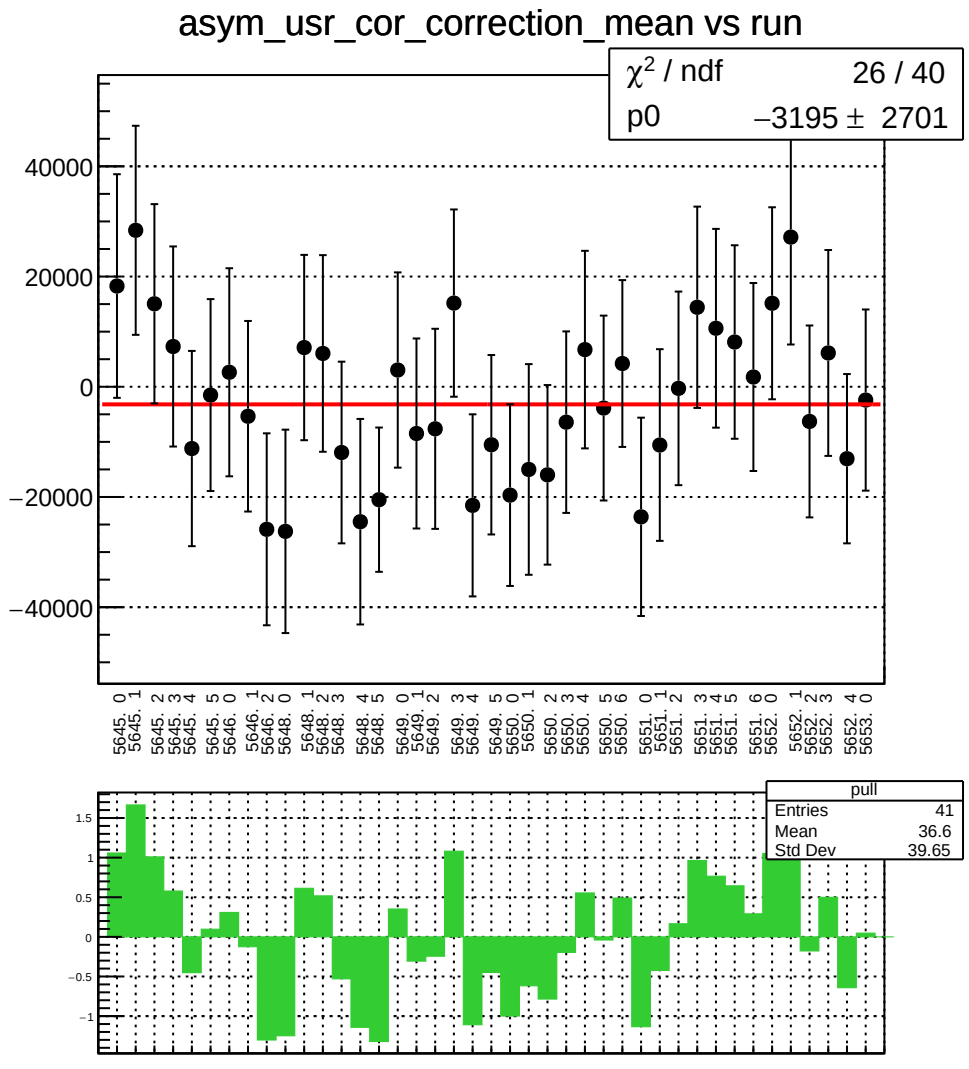
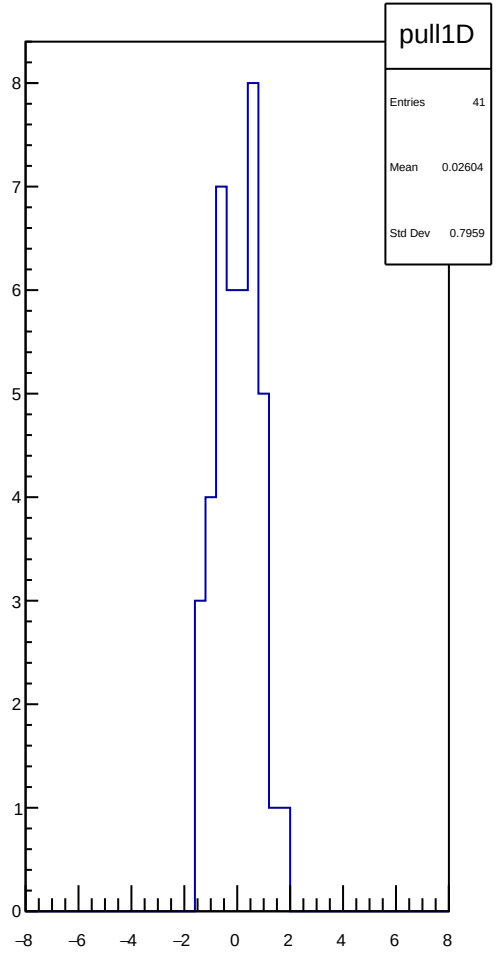
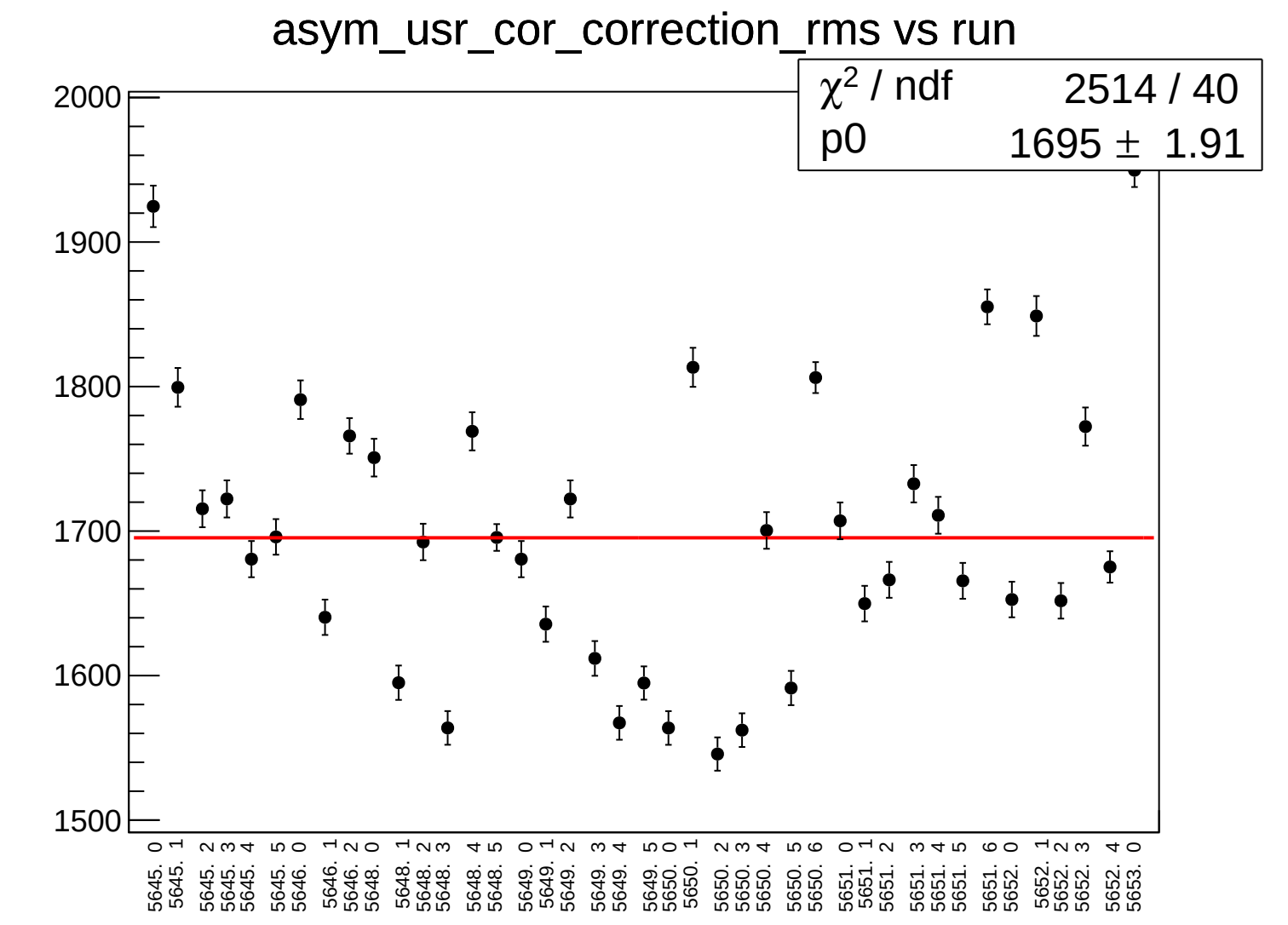
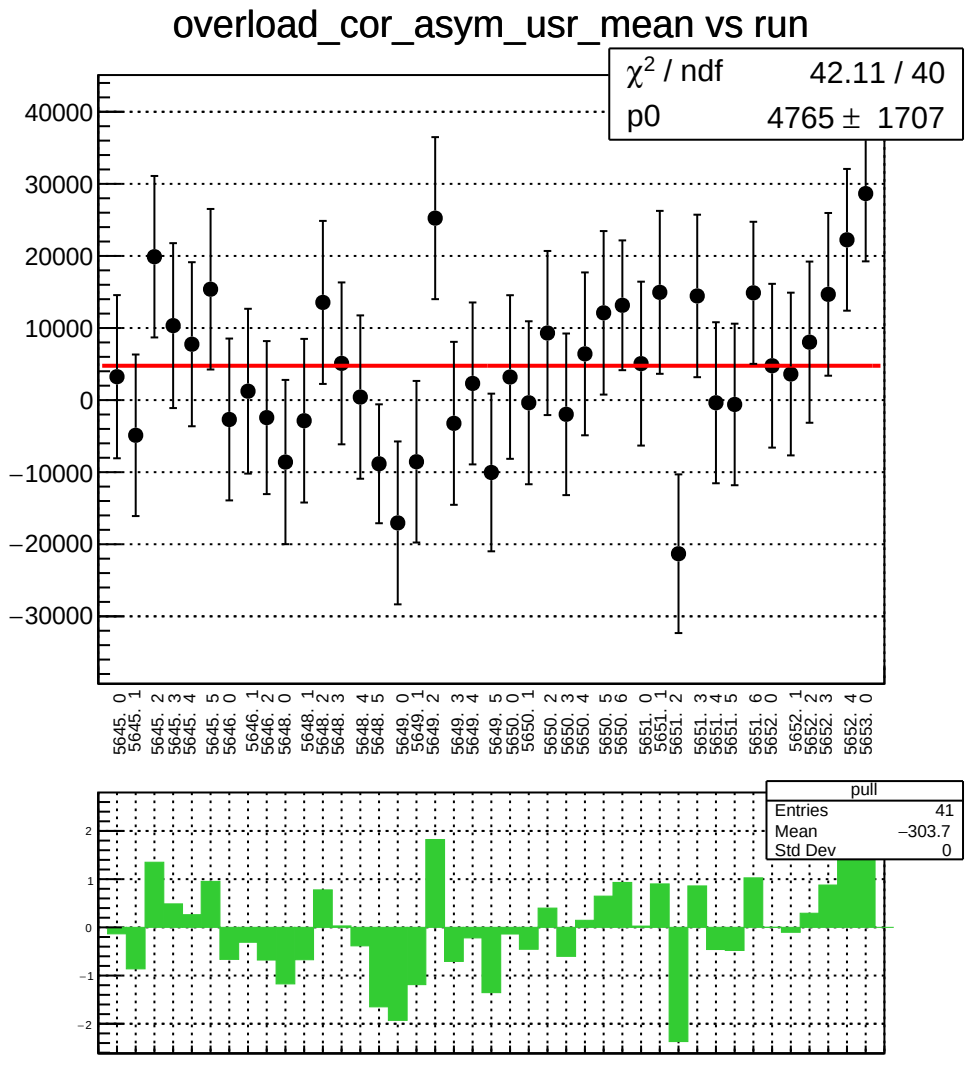
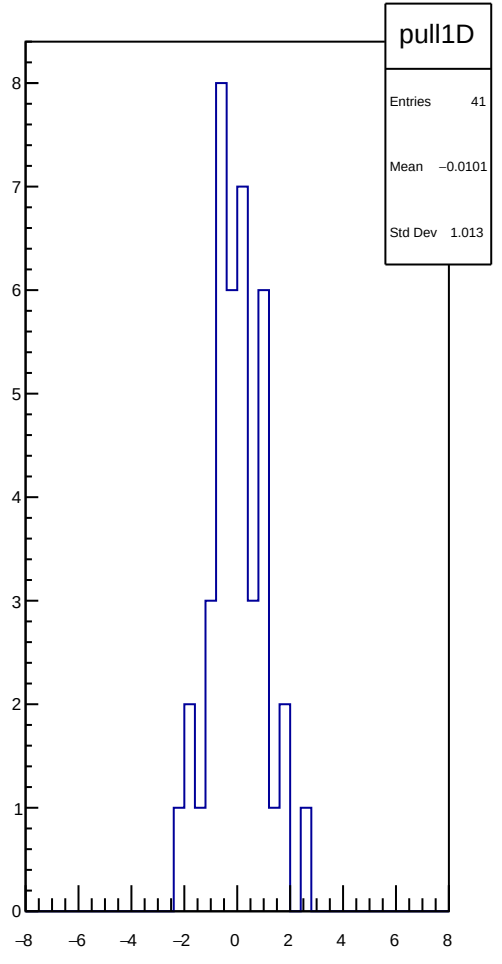
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

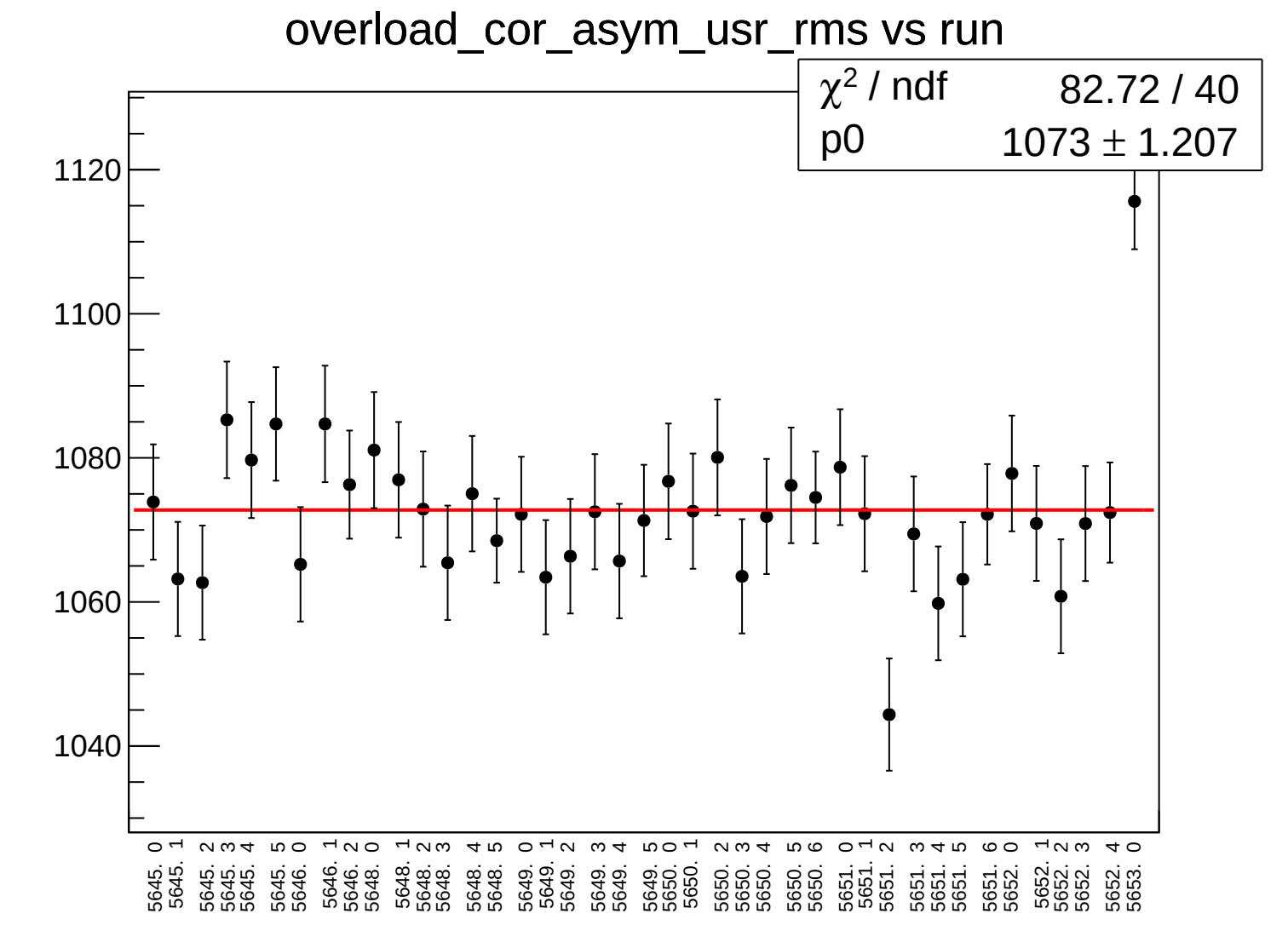

asym_usr_cor_correction_mean vs run
χ² / ndf 26 / 40
p0 −3195 ± 2701
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.6
Std Dev 39.65
1.5
1
0.5
0
−0.5
−1

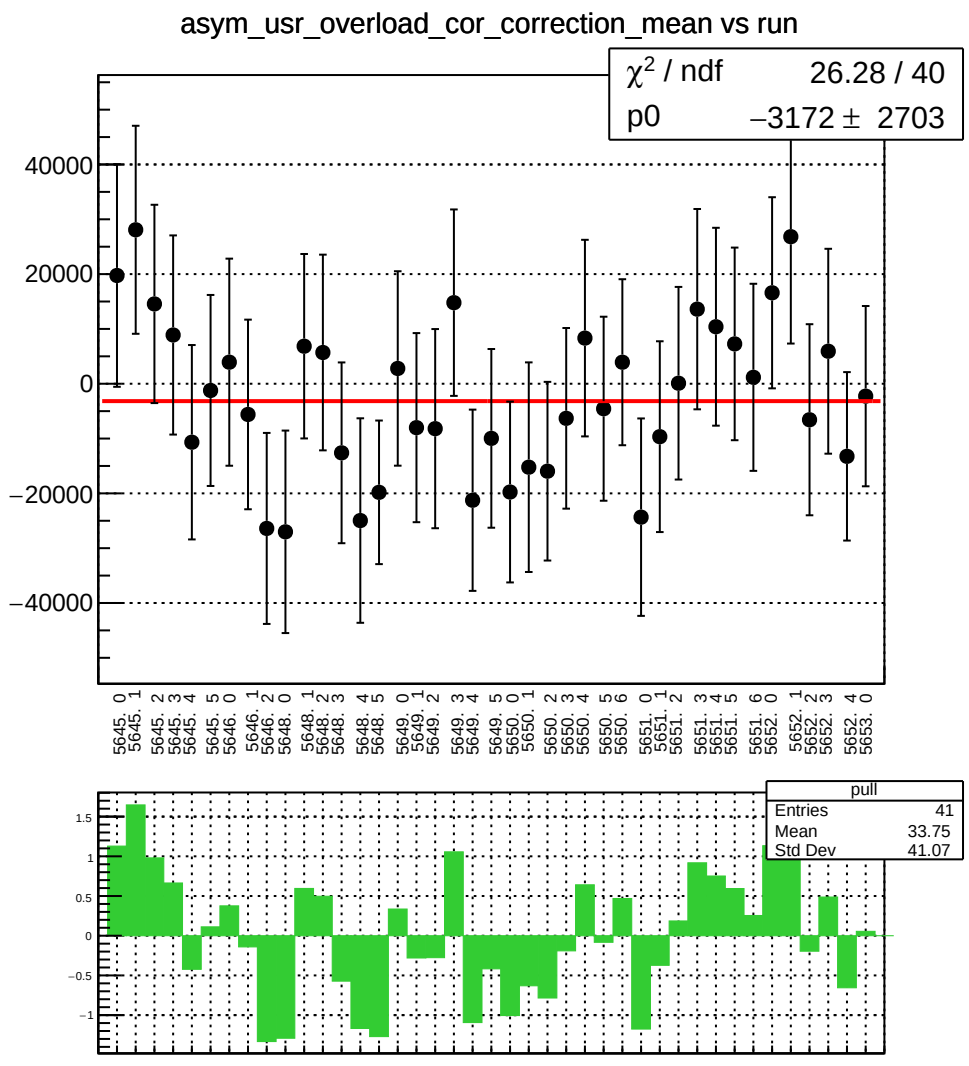

pull1D
Entries 41
Mean 0.02604
Std Dev 0.7959
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

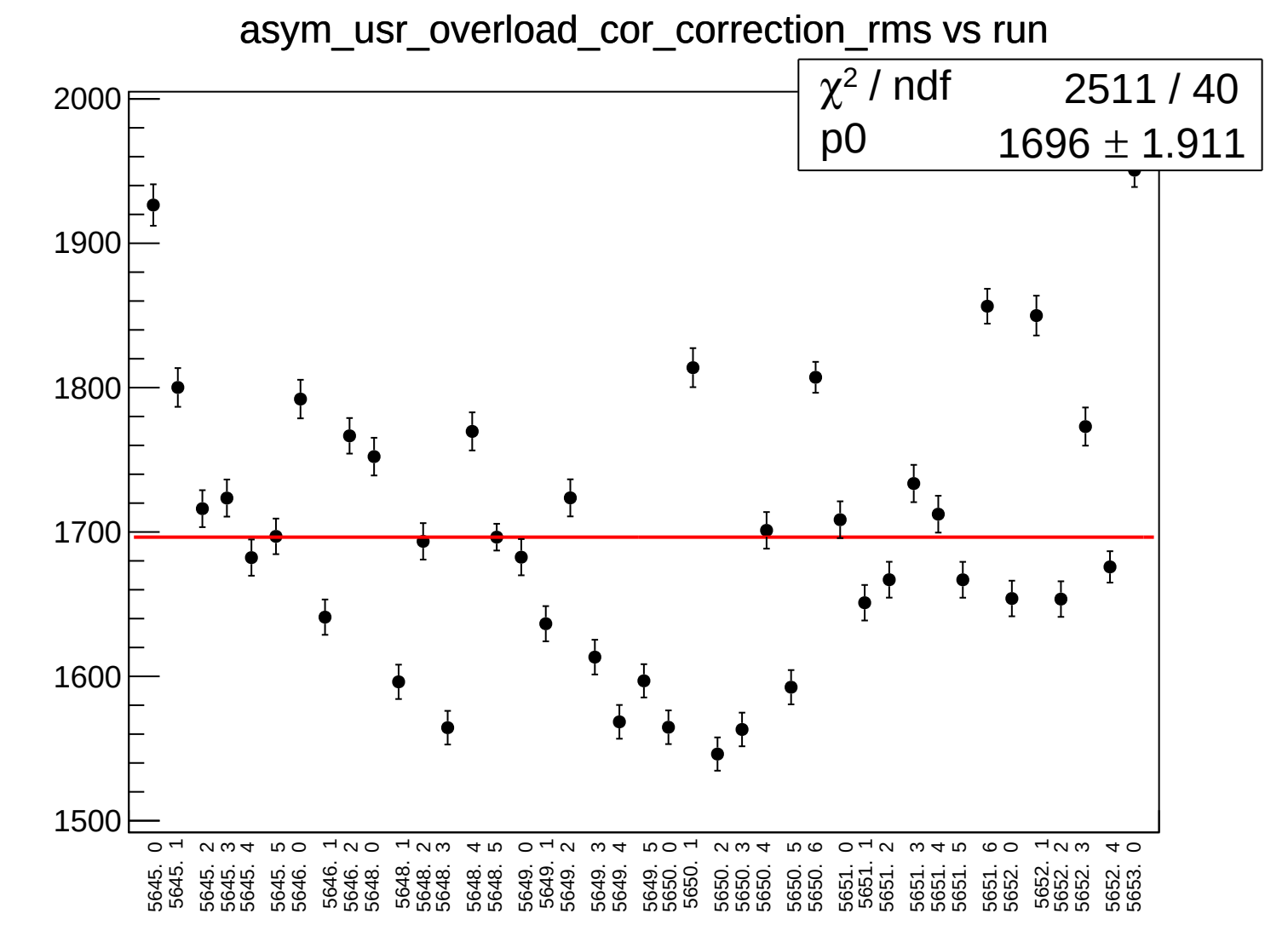

asym_usr_cor_correction_rms vs run
χ² / ndf 2514 / 40
p0 1695 ± 1.91
2000
1900
1800
1700
1600
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

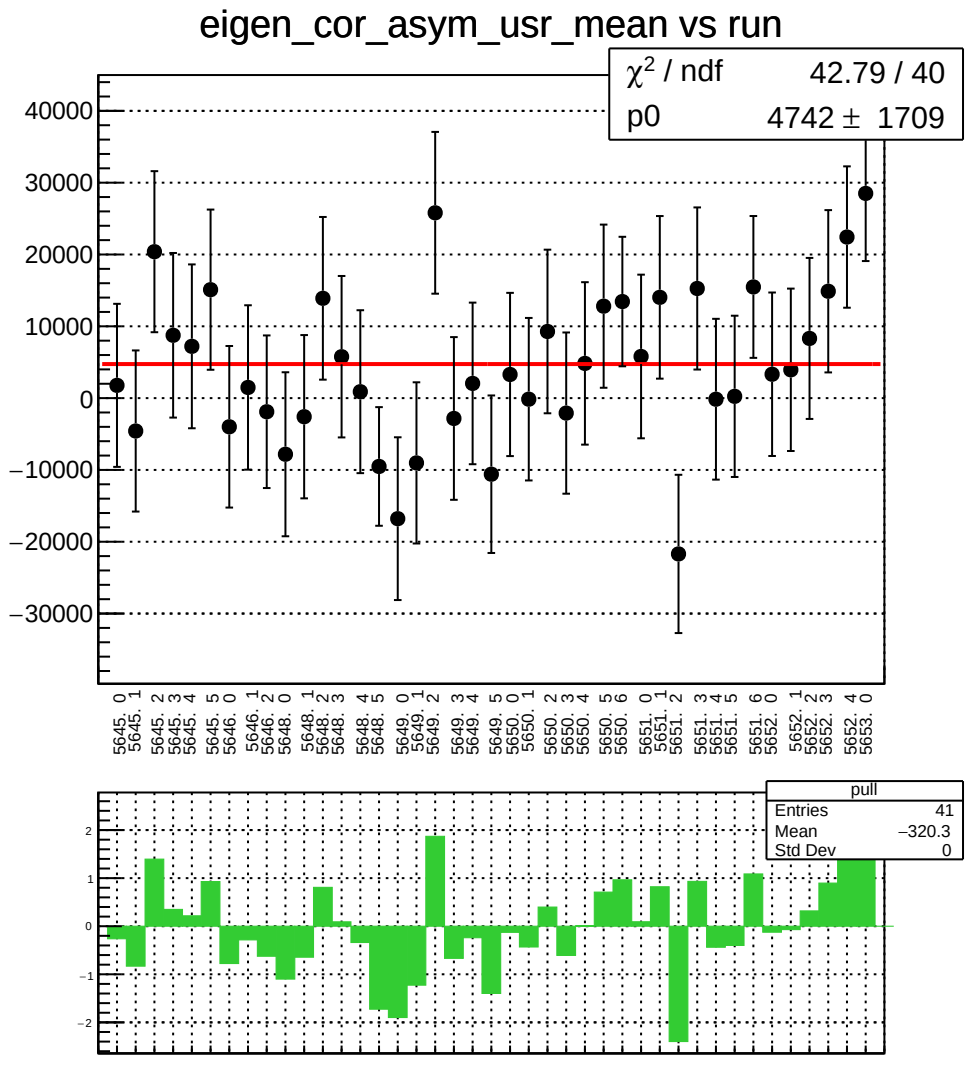

overload_cor_asym_usr_mean vs run
χ² / ndf 42.11 / 40
p0 4765 ± 1707
40000
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −303.7
Std Dev 0
2
1
0
−1
−2

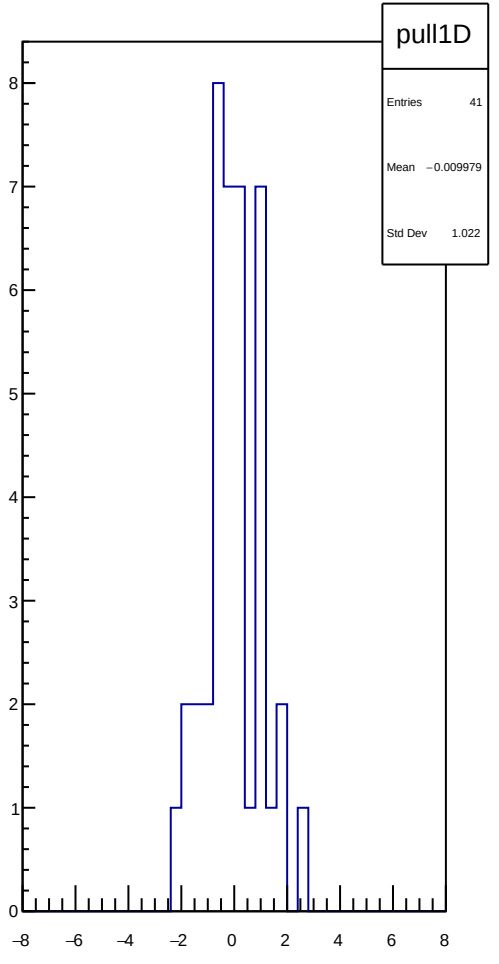

pull1D
Entries 41
Mean −0.0101
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

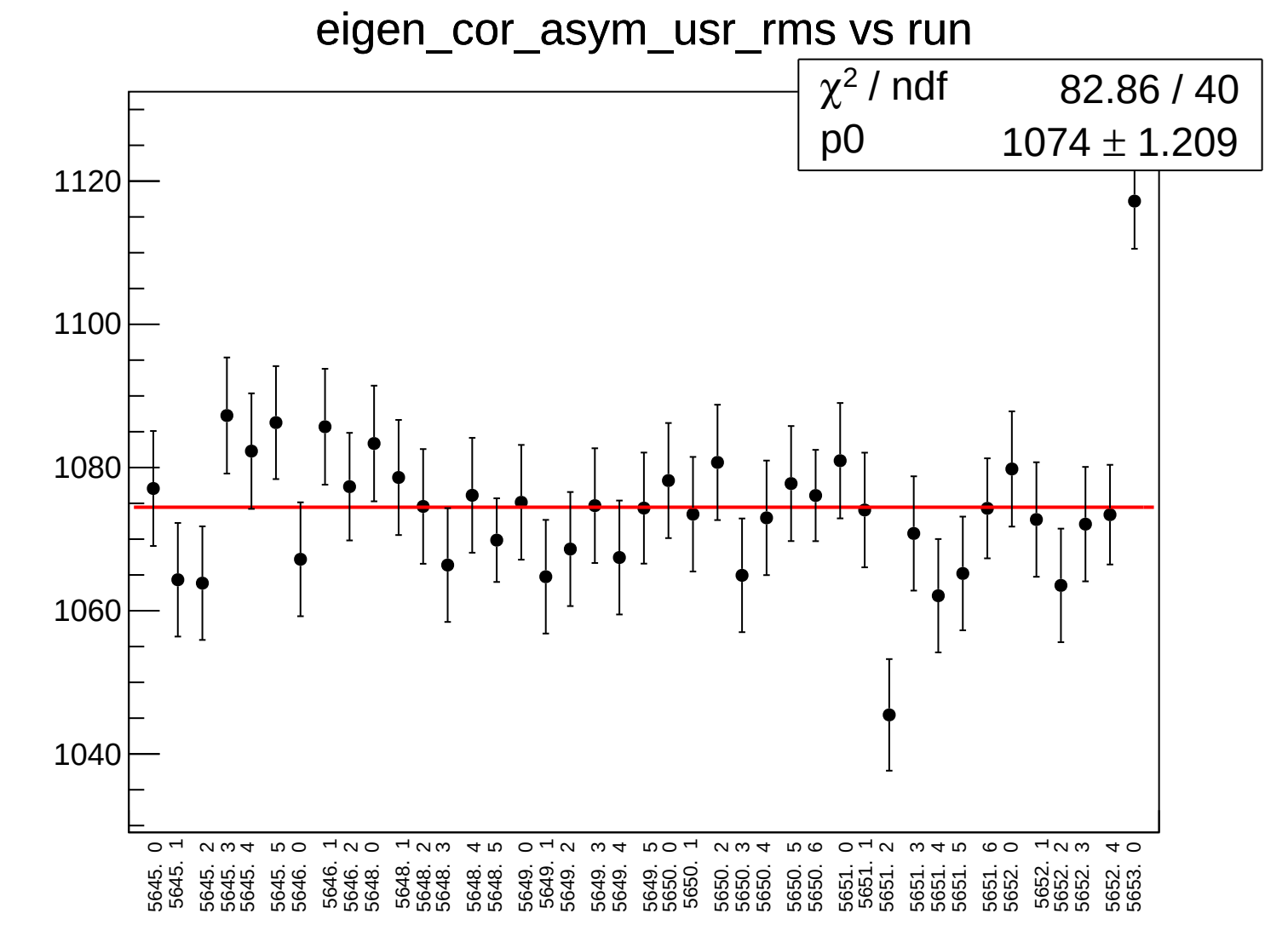

overload_cor_asym_usr_rms vs run
χ² / ndf 82.72 / 40
p0 1073 ± 1.207
1120
1100
1080
1060
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

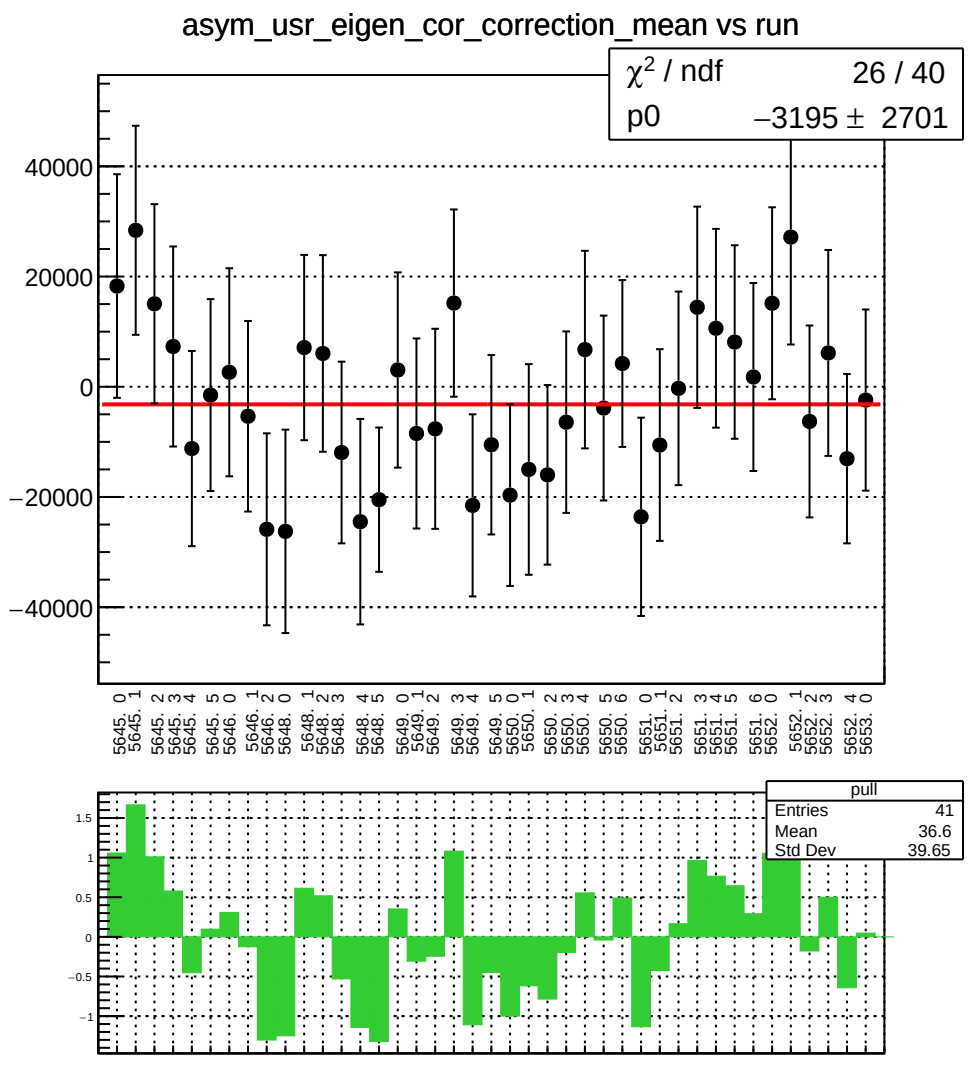

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 26.28 / 40
p0 −3172 ± 2703
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 33.75
Std Dev 41.07
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.02593
Std Dev 0.8002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

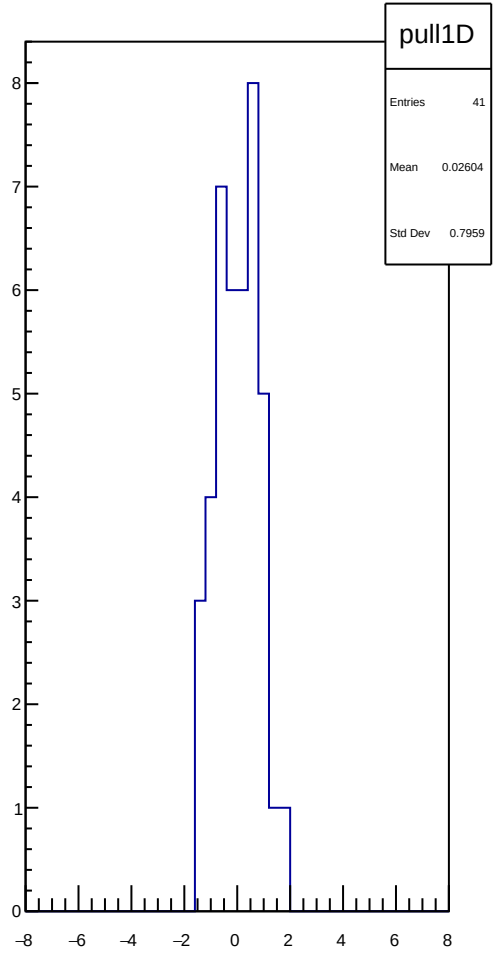

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 2511 / 40
p0 1696 ± 1.911
2000
1900
1800
1700
1600
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

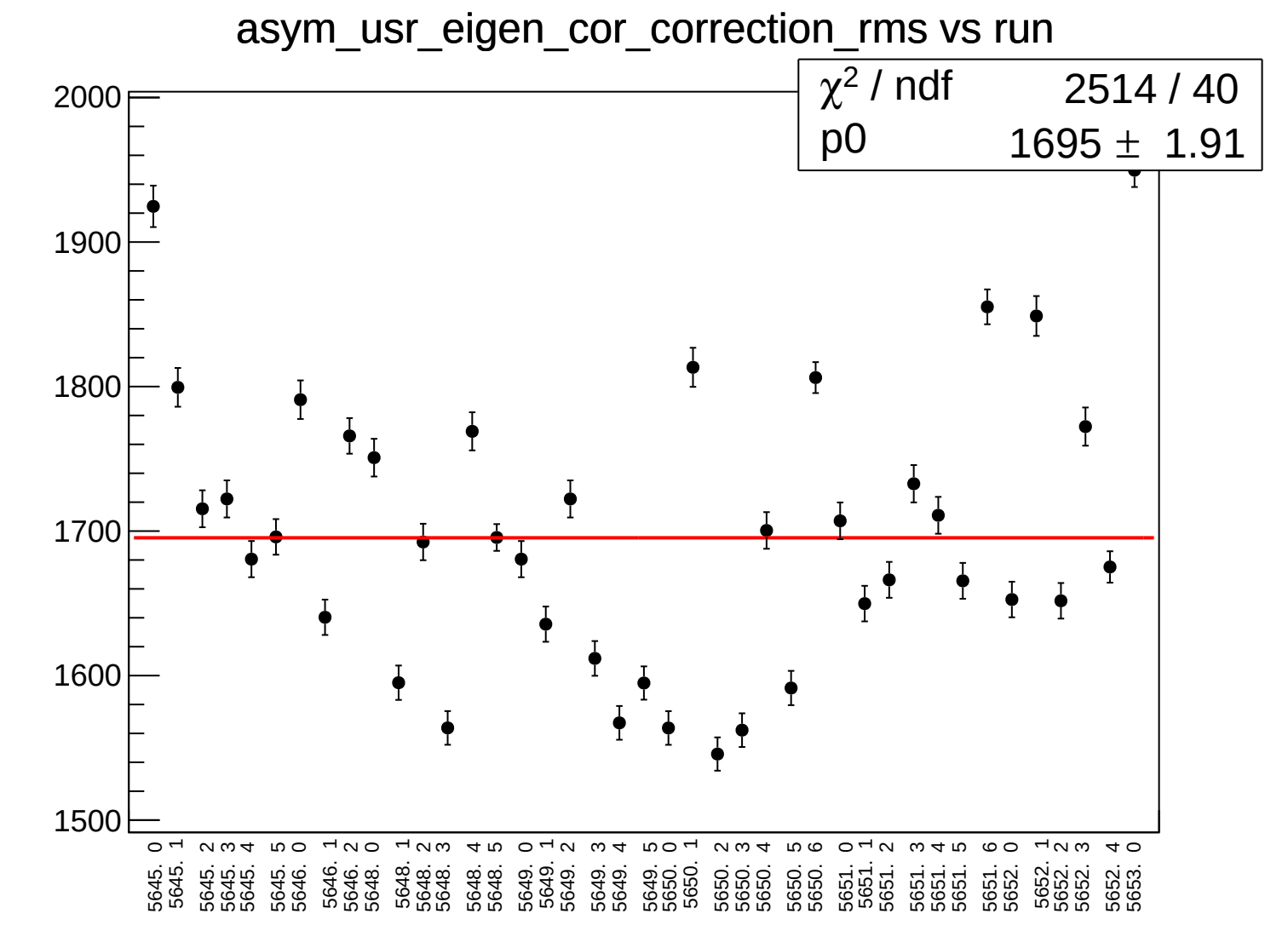

eigen_cor_asym_usr_mean vs run
χ² / ndf 42.79 / 40
p0 4742 ± 1709
40000
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −320.3
Std Dev 0
2
1
0
−1
−2

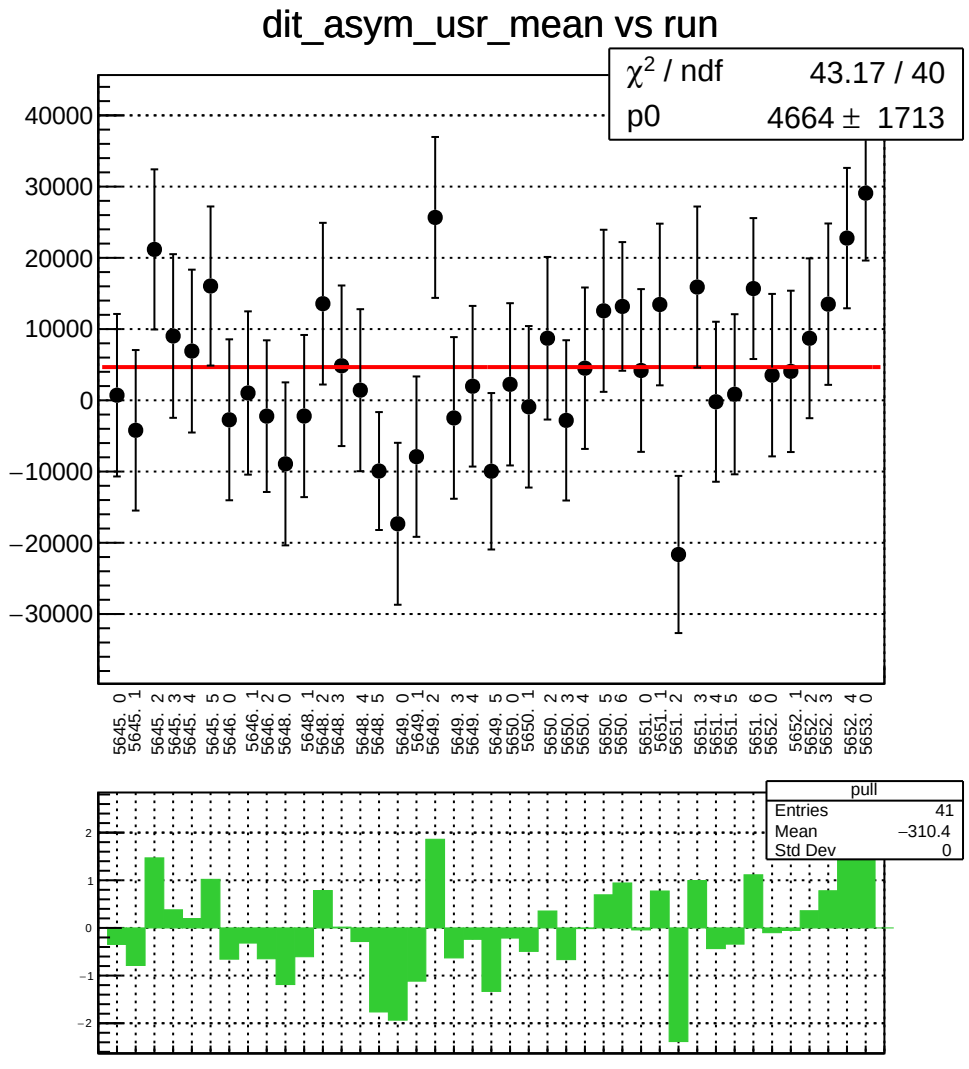

pull1D
Entries 41
Mean −0.009979
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

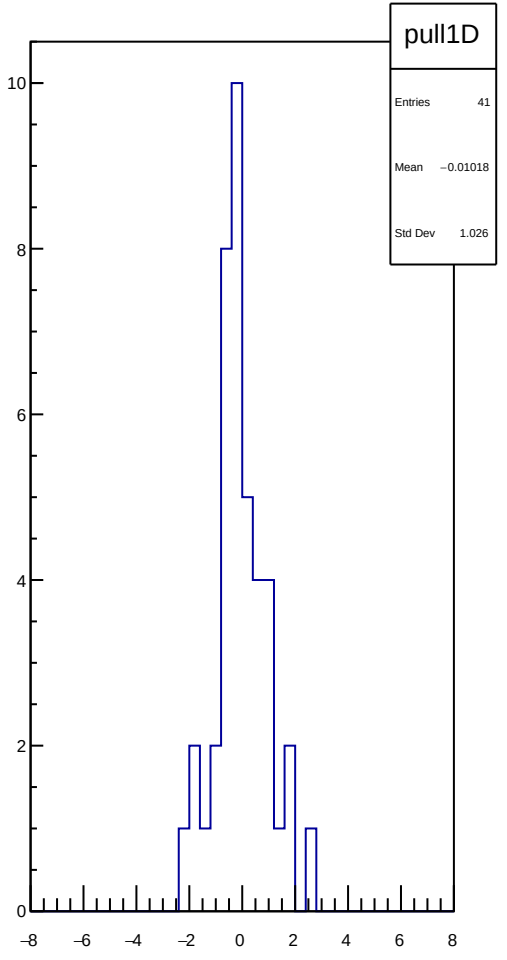

eigen_cor_asym_usr_rms vs run
χ² / ndf 82.86 / 40
p0 1074 ± 1.209
1120
1100
1080
1060
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

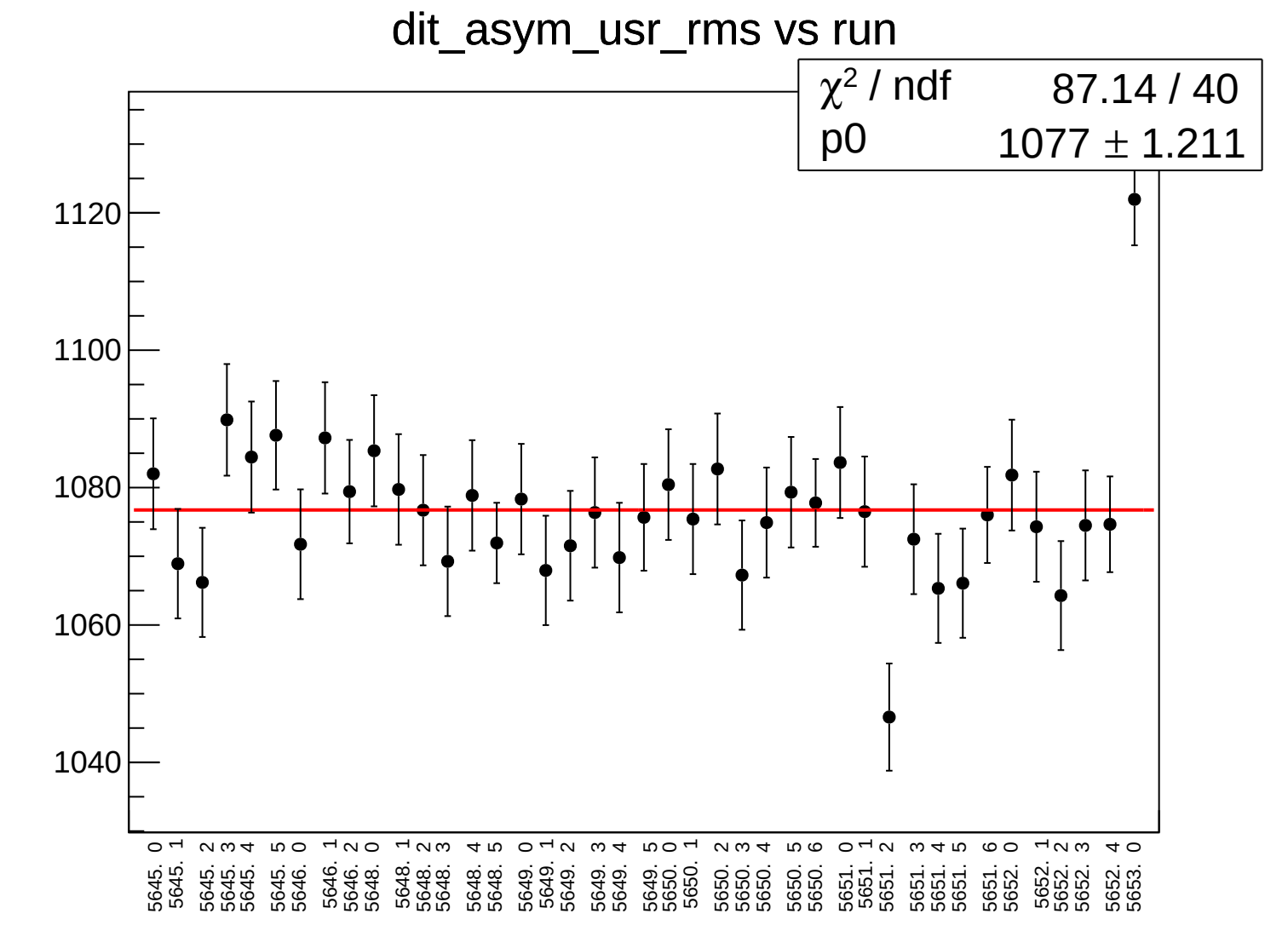

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 26 / 40
p0 −3195 ± 2701
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.6
Std Dev 39.65
1.5
1
0.5
0
−0.5
−1

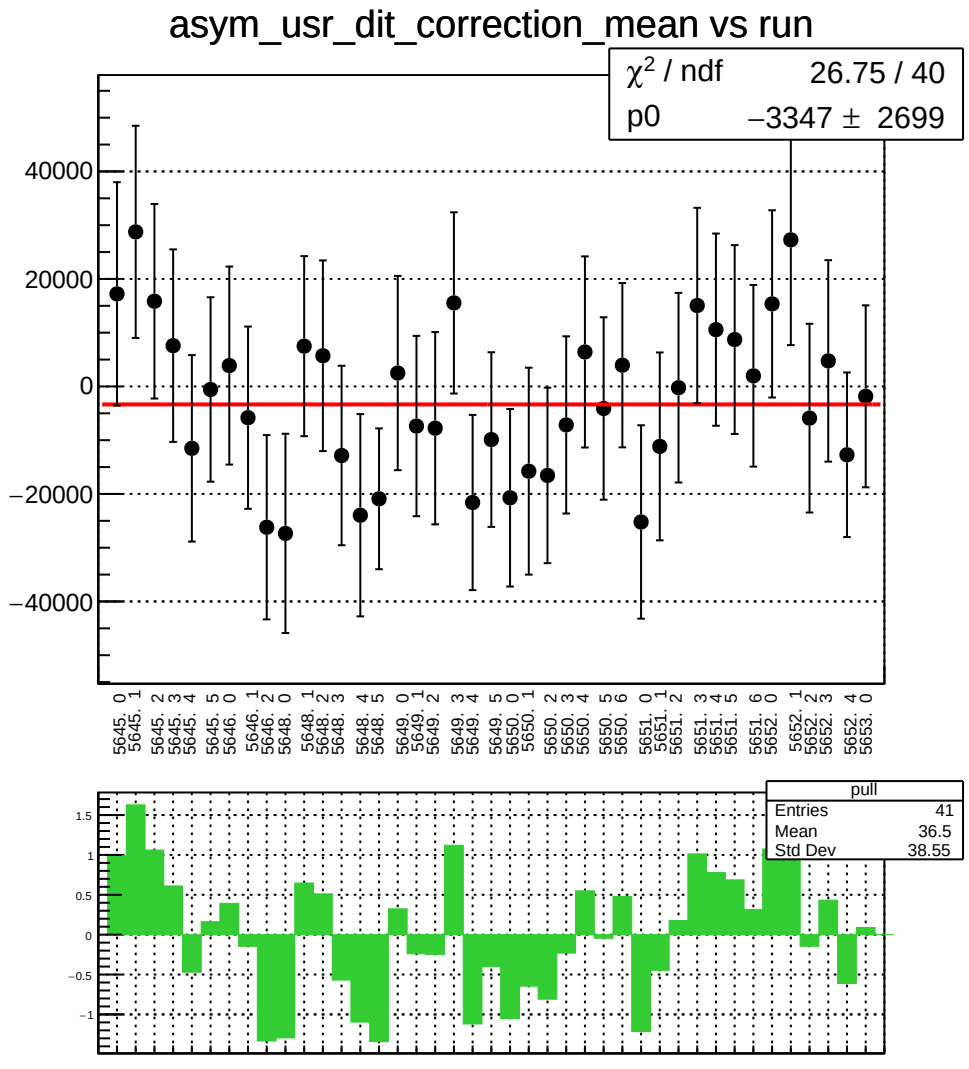

pull1D
Entries 41
Mean 0.02604
Std Dev 0.7959
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

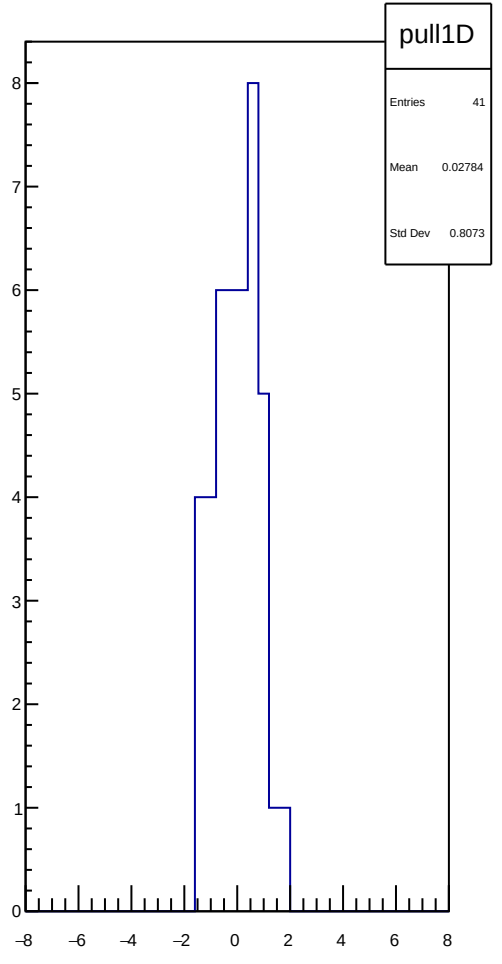

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 2514 / 40
p0 1695 ± 1.91
2000
1900
1800
1700
1600
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

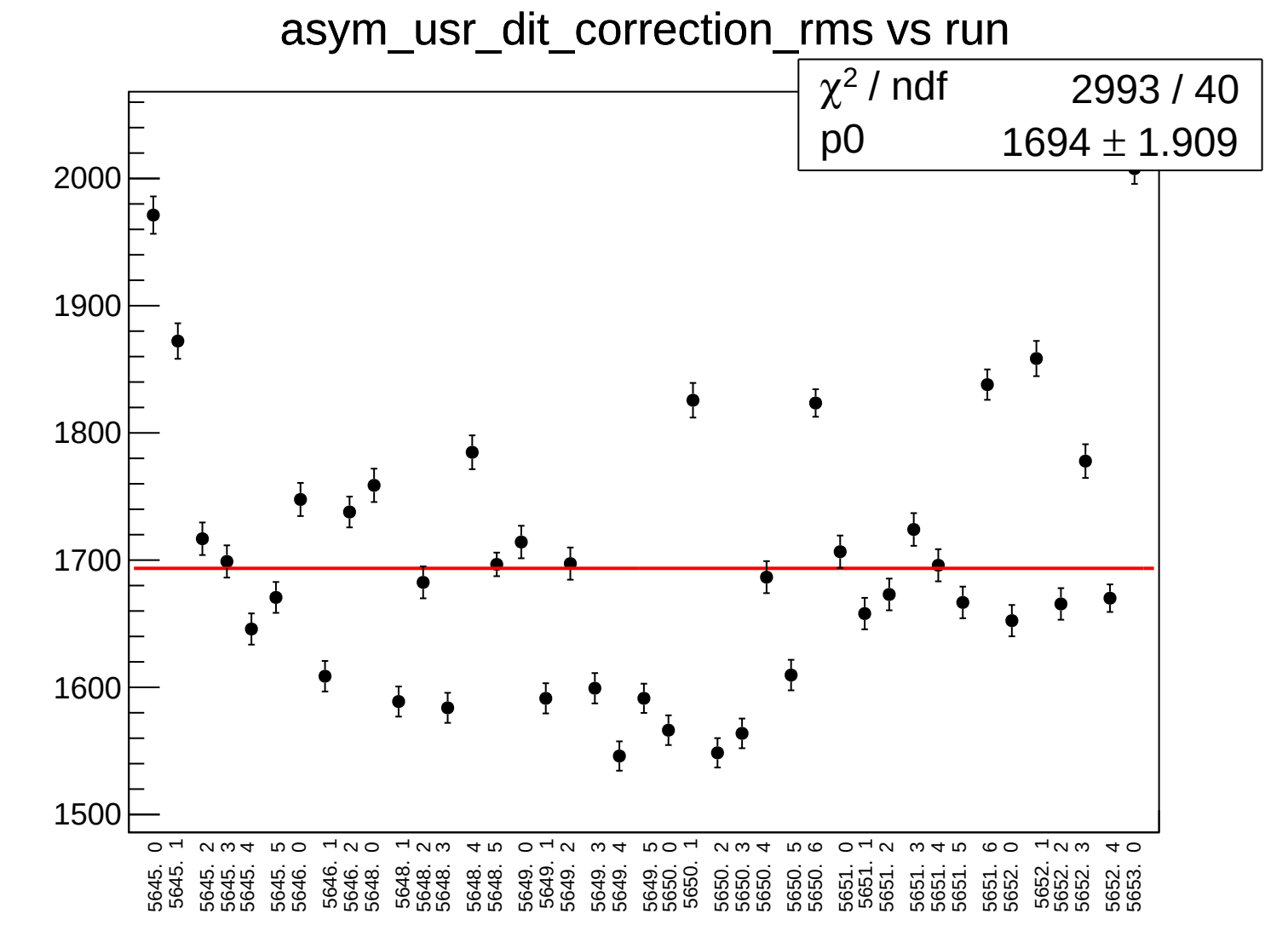

dit_asym_usr_mean vs run
χ² / ndf 43.17 / 40
p0 4664 ± 1713
40000
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −310.4
Std Dev 0
2
1
0
−1
−2

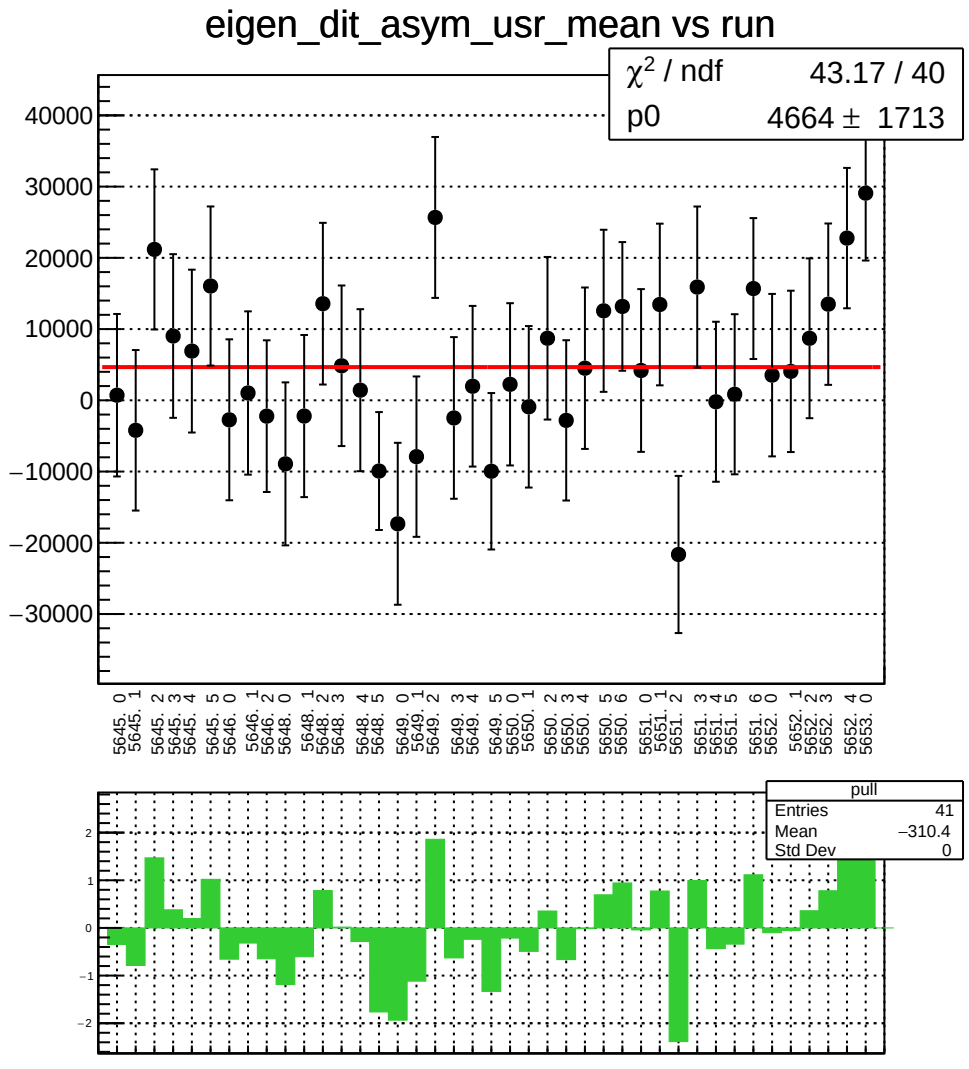

pull1D
Entries 41
Mean −0.01018
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

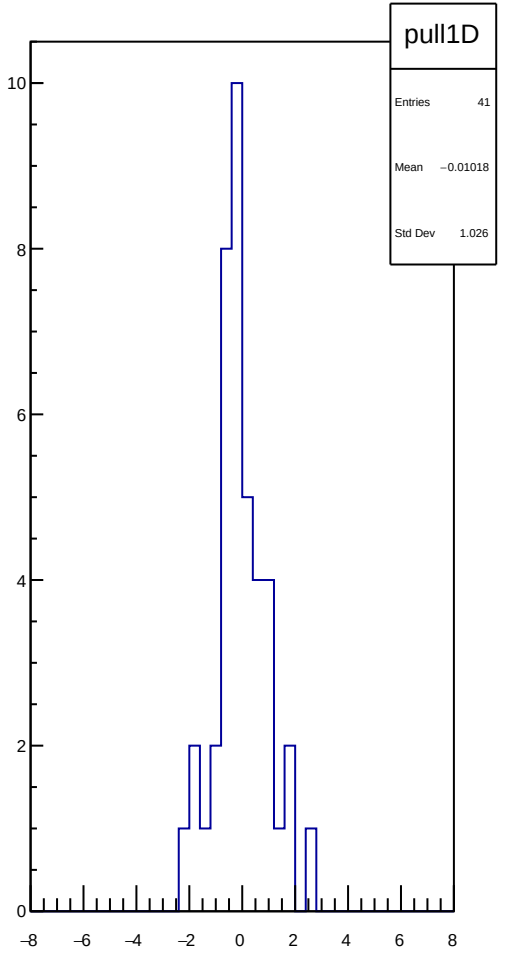

dit_asym_usr_rms vs run
χ² / ndf 87.14 / 40
p0 1077 ± 1.211
1120
1100
1080
1060
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

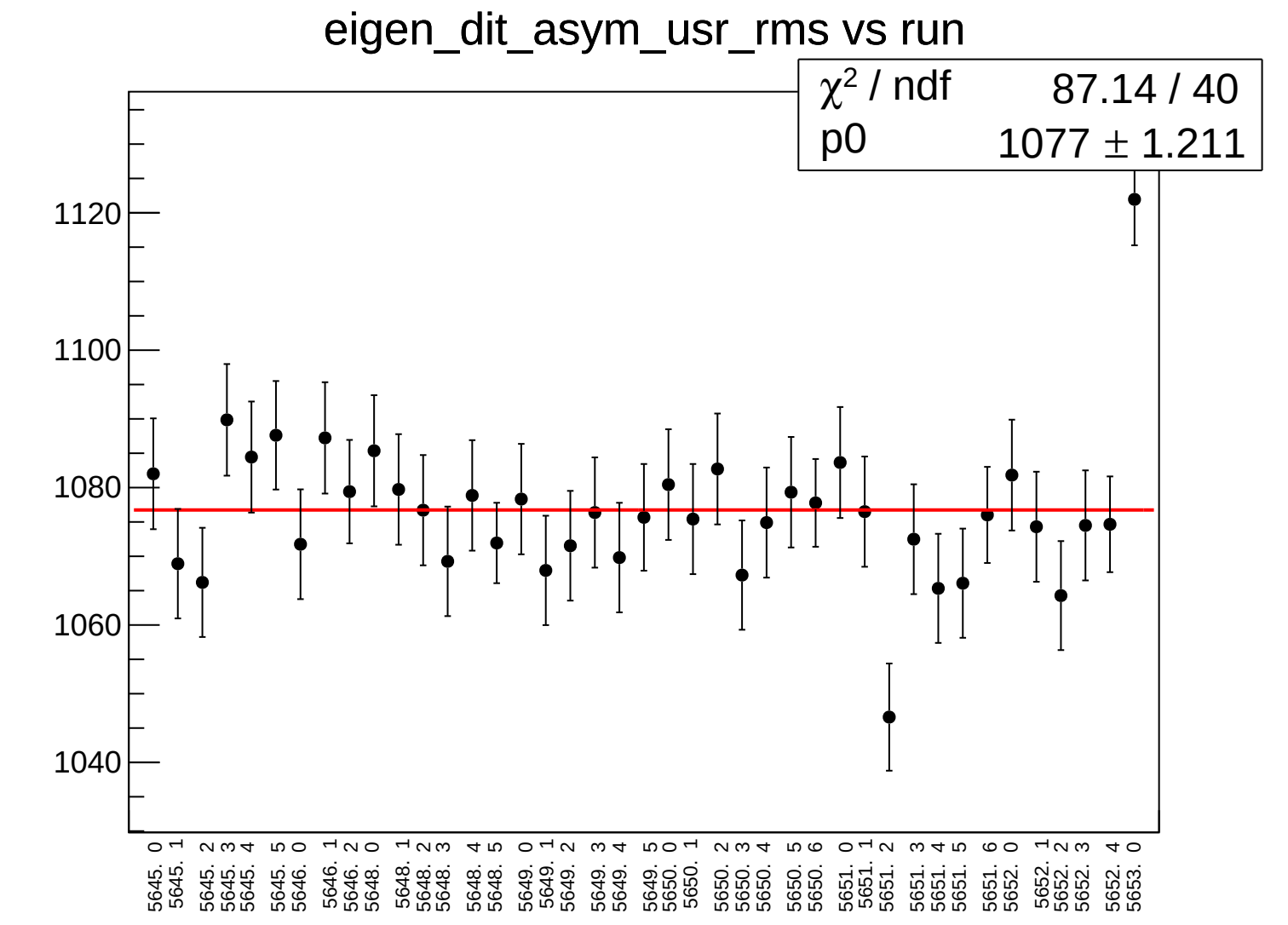

asym_usr_dit_correction_mean vs run
χ² / ndf 26.75 / 40
p0 −3347 ± 2699
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.5
Std Dev 38.55
1.5
1
0.5
0
−0.5
−1

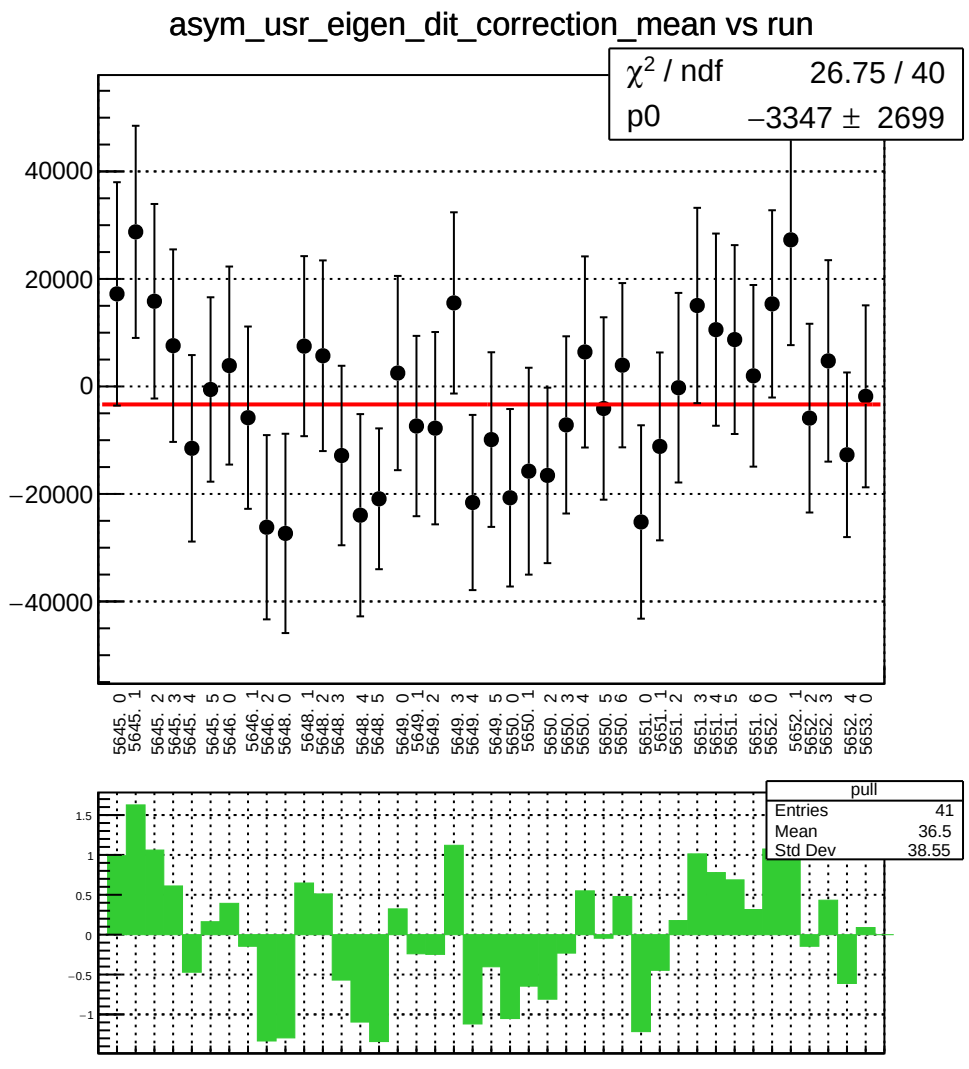

pull1D
Entries 41
Mean 0.02784
Std Dev 0.8073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

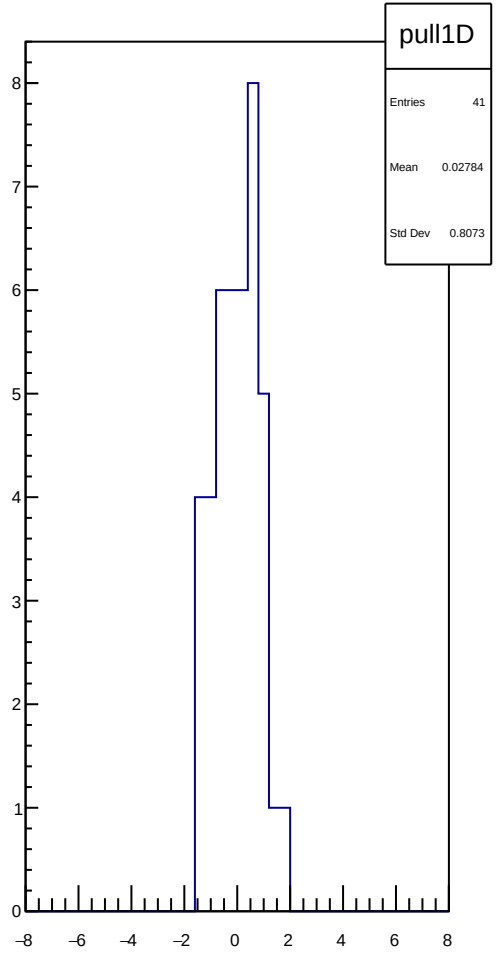

asym_usr_dit_correction_rms vs run
χ² / ndf 2993 / 40
p0 1694 ± 1.909
2000
1900
1800
1700
1600
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

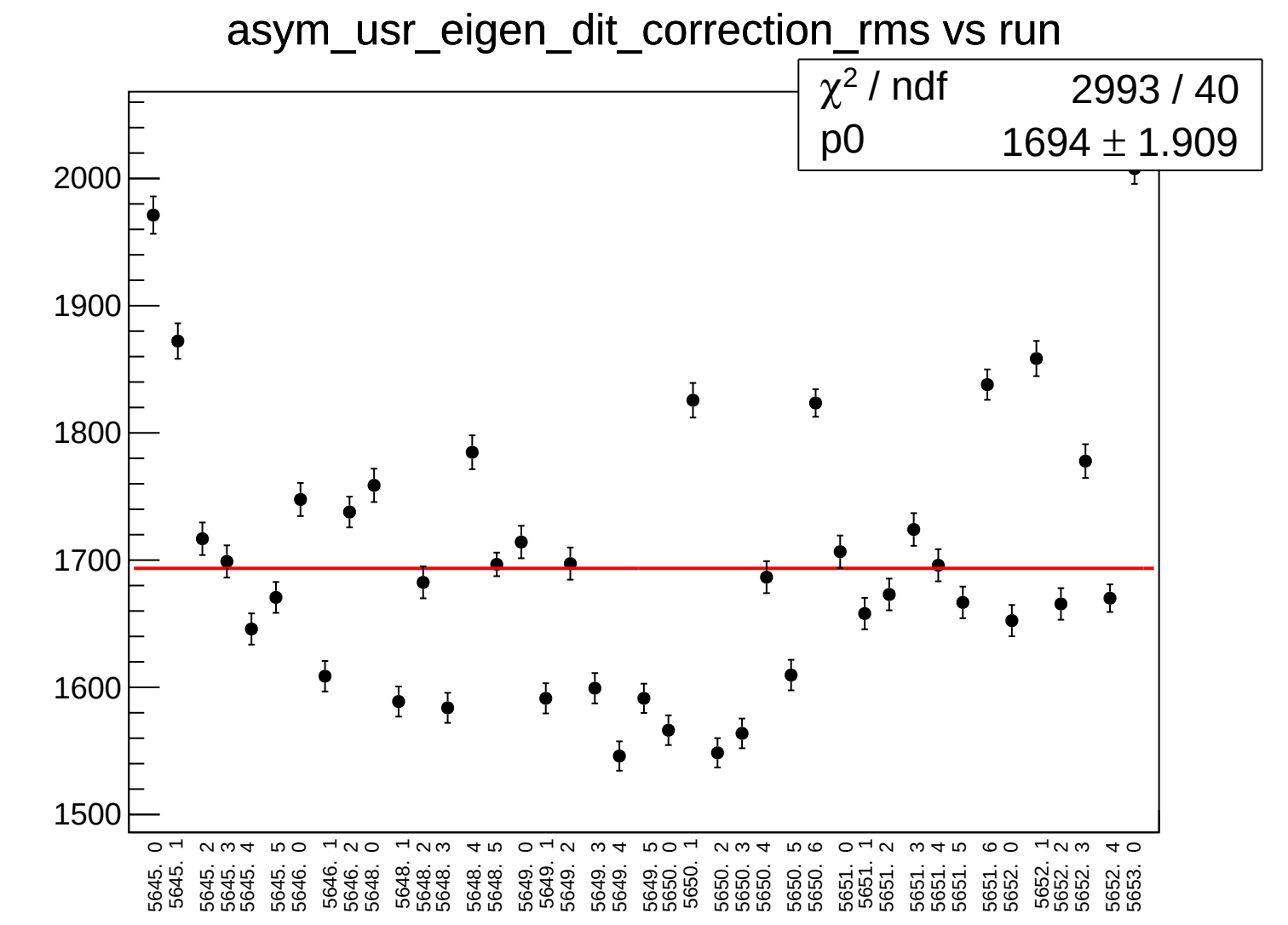

eigen_dit_asym_usr_mean vs run
χ² / ndf 43.17 / 40
p0 4664 ± 1713
40000
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −310.4
Std Dev 0
2
1
0
−1
−2

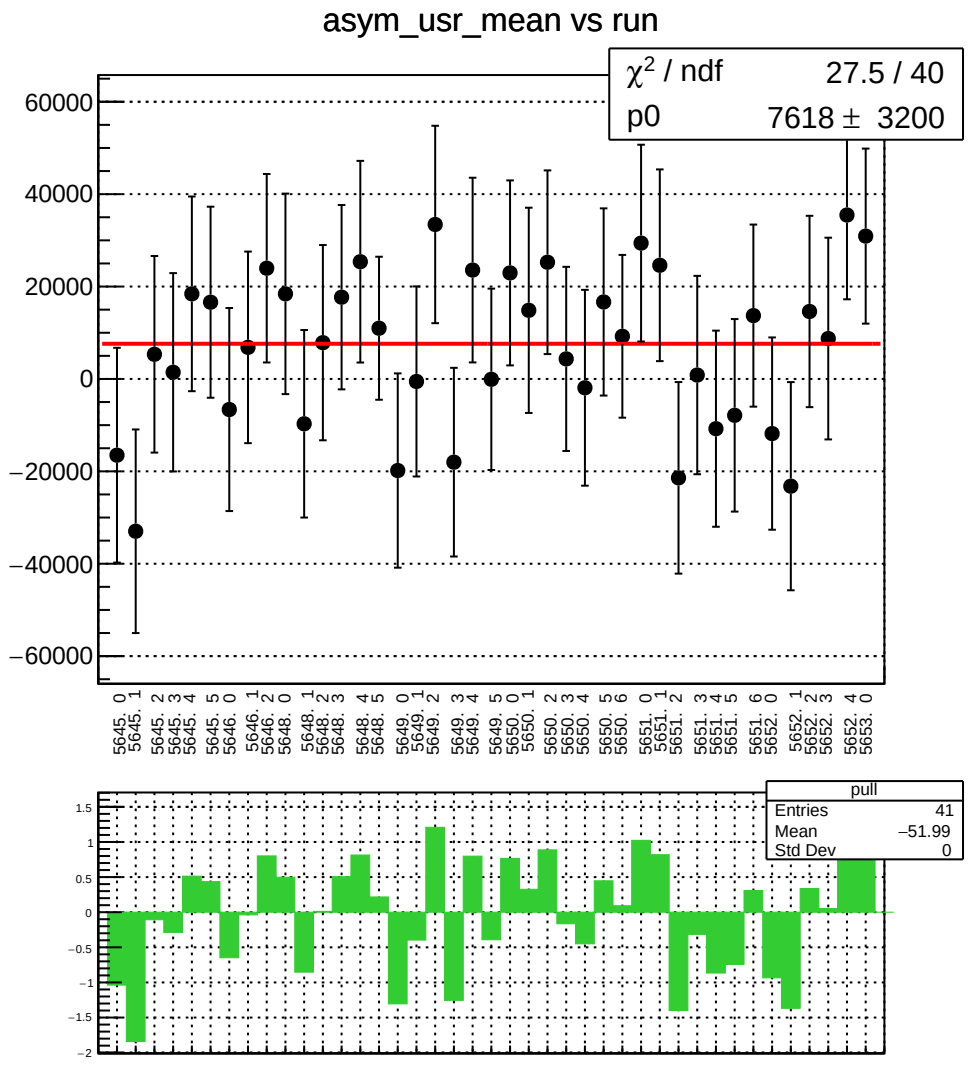

pull1D
Entries 41
Mean −0.01018
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

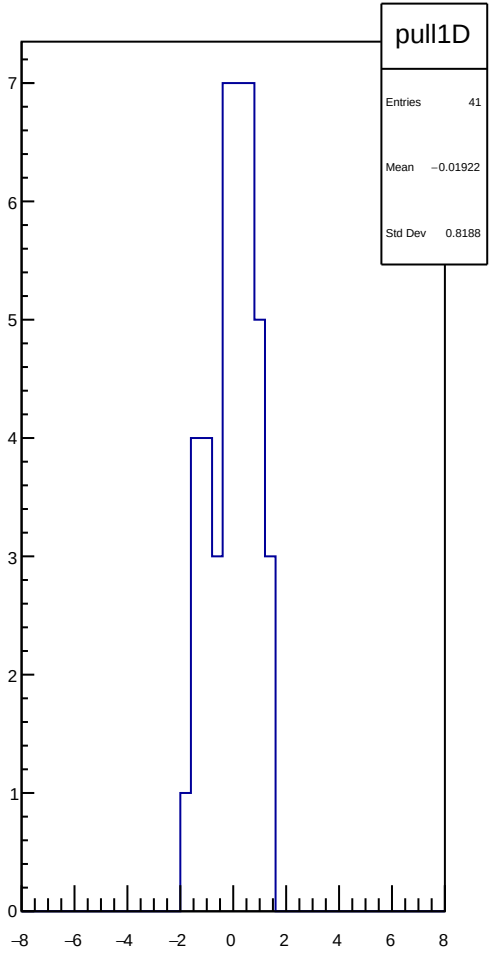

eigen_dit_asym_usr_rms vs run
χ² / ndf 87.14 / 40
p0 1077 ± 1.211
1120
1100
1080
1060
1040
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

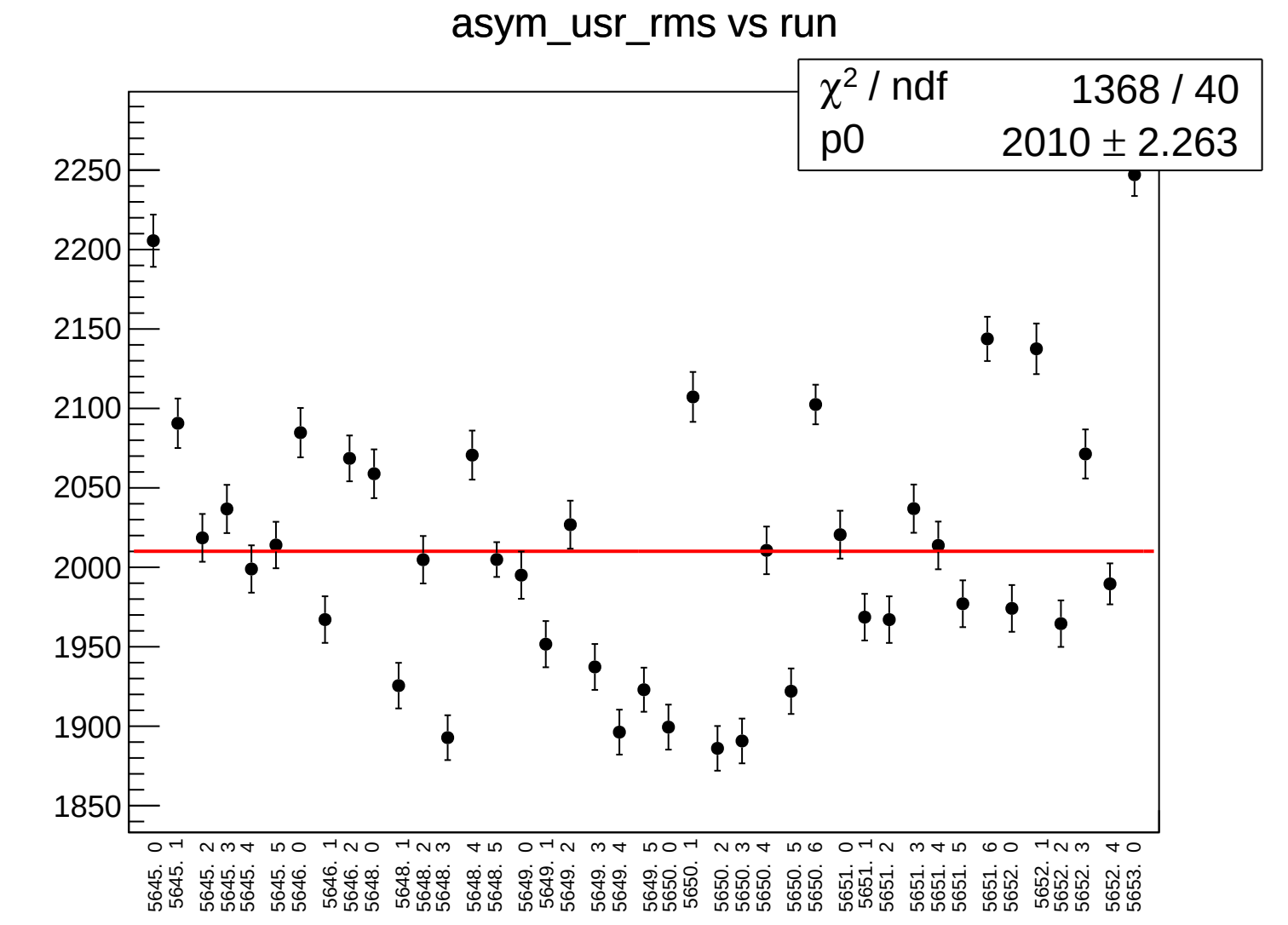

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 26.75 / 40
p0 −3347 ± 2699
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.5
Std Dev 38.55
1.5
1
0.5
0
−0.5
−1

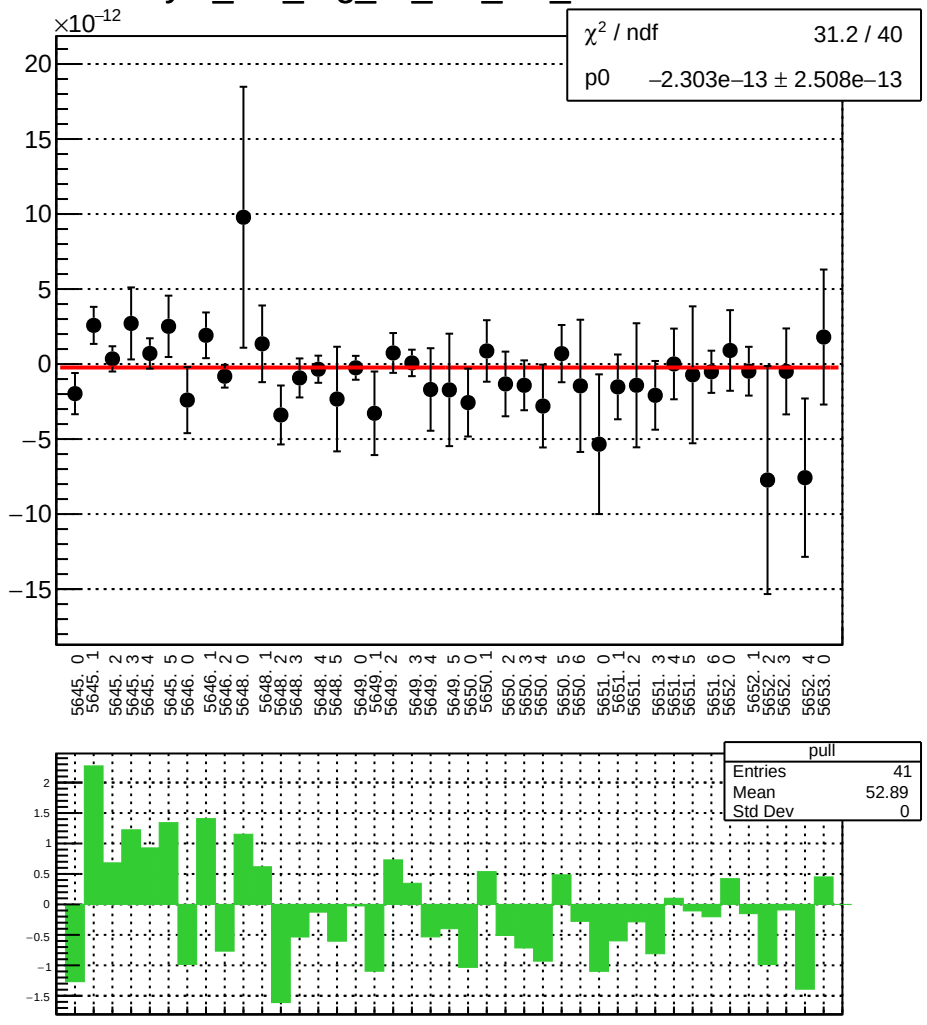

pull1D
Entries 41
Mean 0.02784
Std Dev 0.8073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

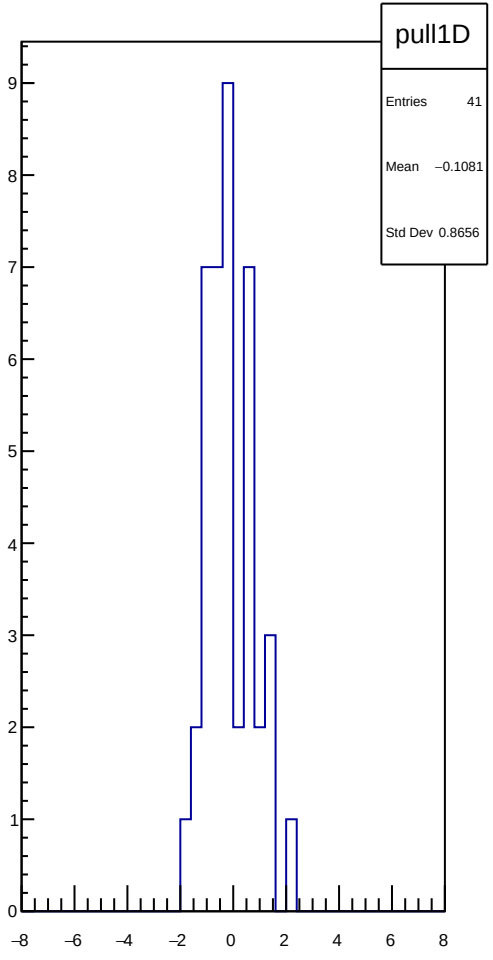

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2993 / 40
p0 1694 ± 1.909
2000
1900
1800
1700
1600
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

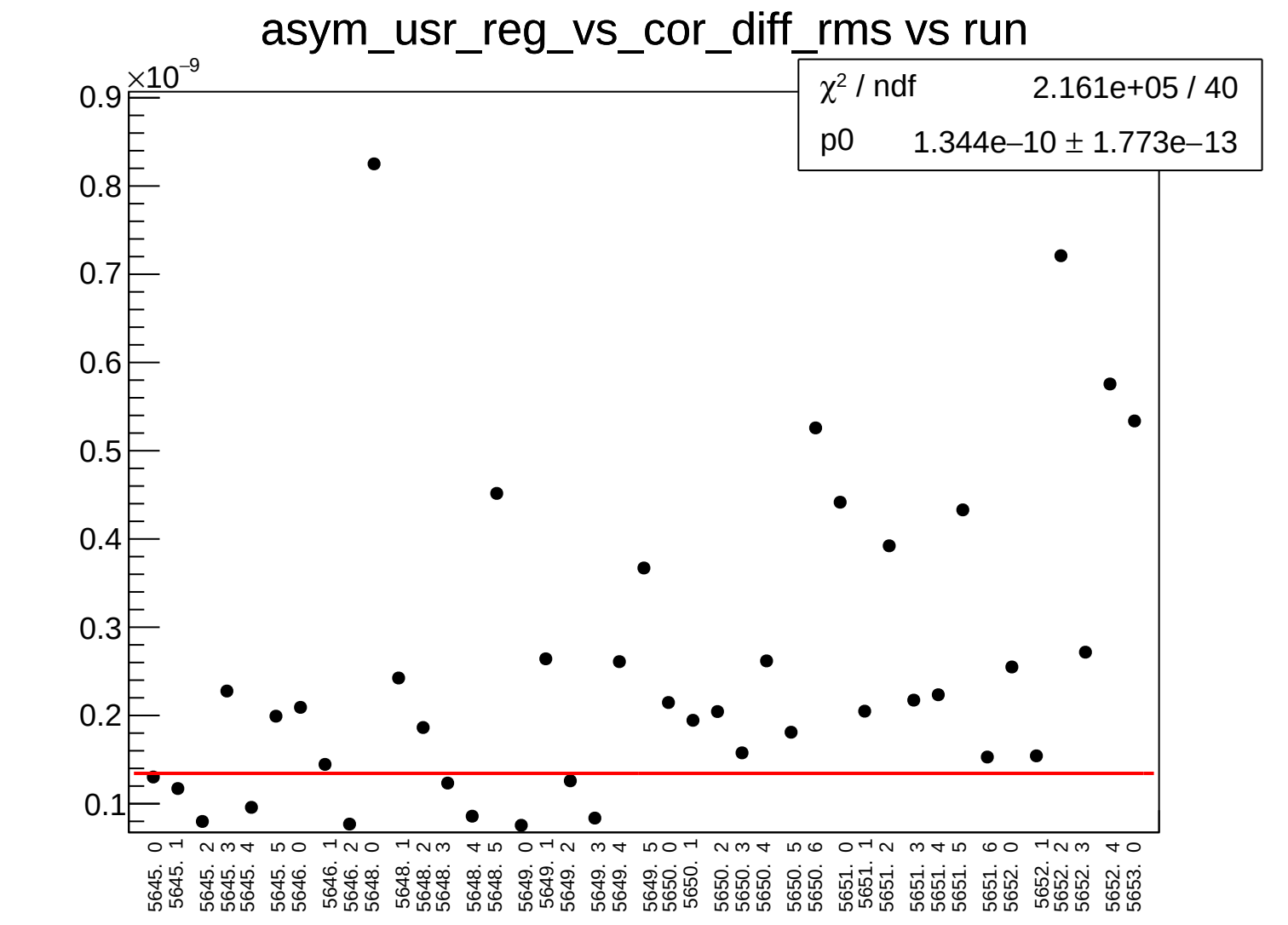

asym_usr_mean vs run
χ² / ndf 27.5 / 40
p0 7618 ± 3200
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −51.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

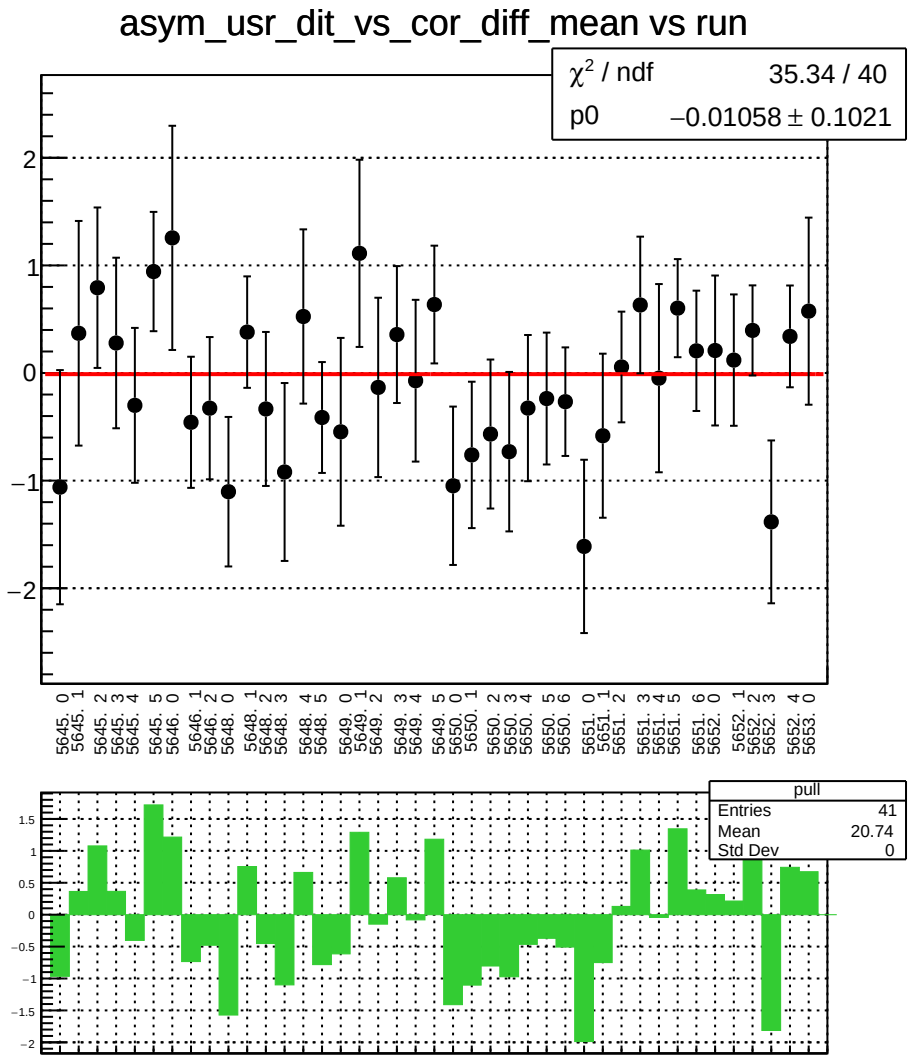

pull1D
Entries 41
Mean −0.01922
Std Dev 0.8188
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

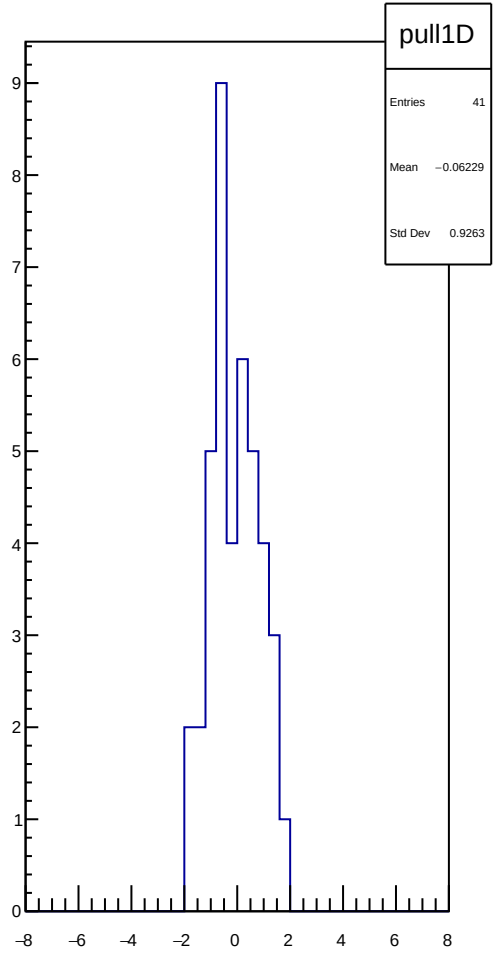

asym_usr_rms vs run
χ² / ndf 1368 / 40
p0 2010 ± 2.263
2250
2200
2150
2100
2050
2000
1950
1900
1850
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

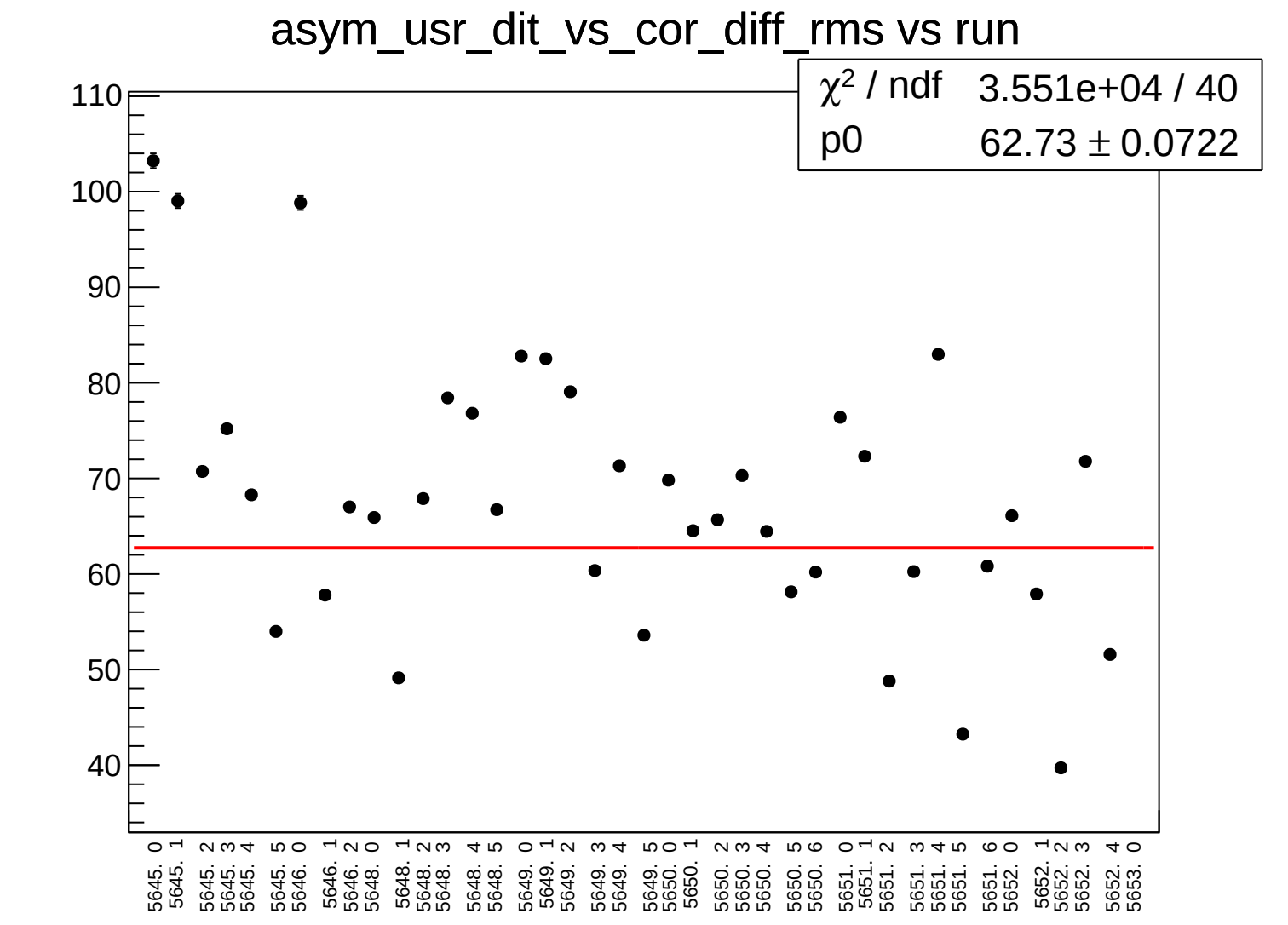

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.2 / 40
p0 −2.303e−13 ± 2.508e−13
pull
Entries 41
Mean 52.89
Std Dev 0

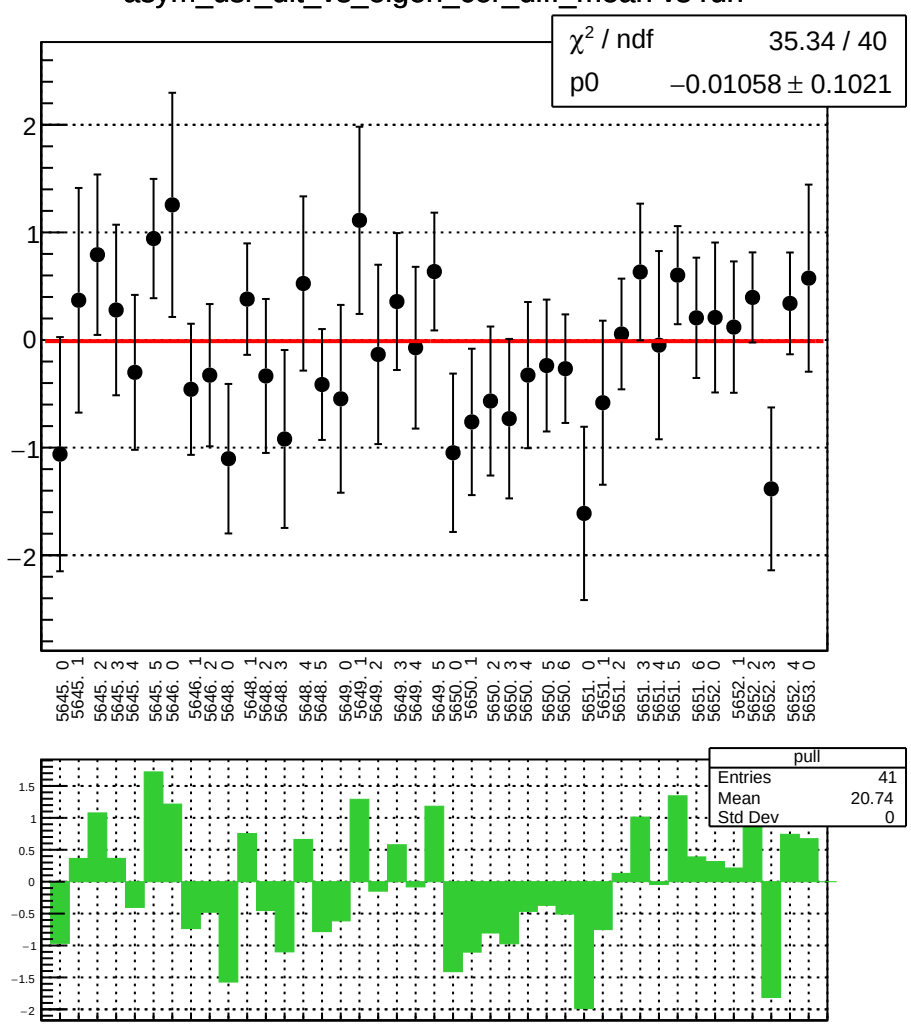

pull1D
Entries 41
Mean −0.1081
Std Dev 0.8656

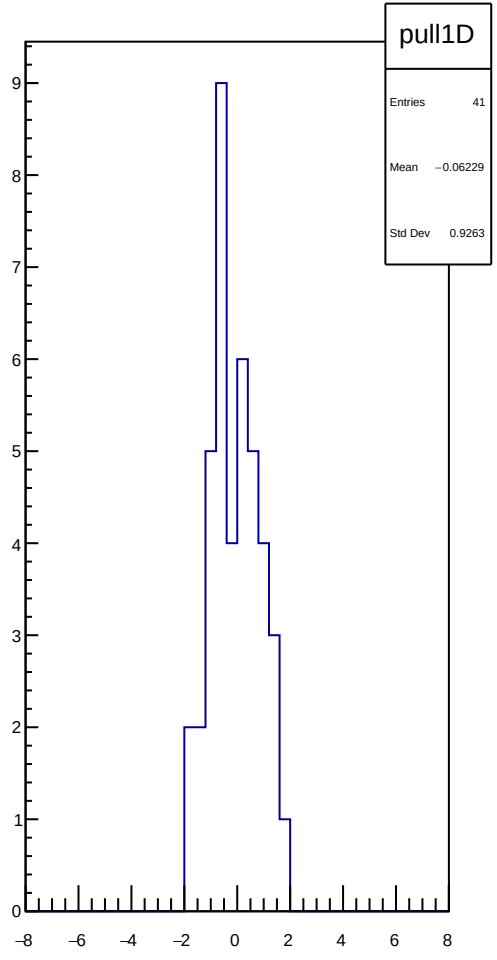

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.161e+05 / 40
p0 1.344e−10 ± 1.773e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

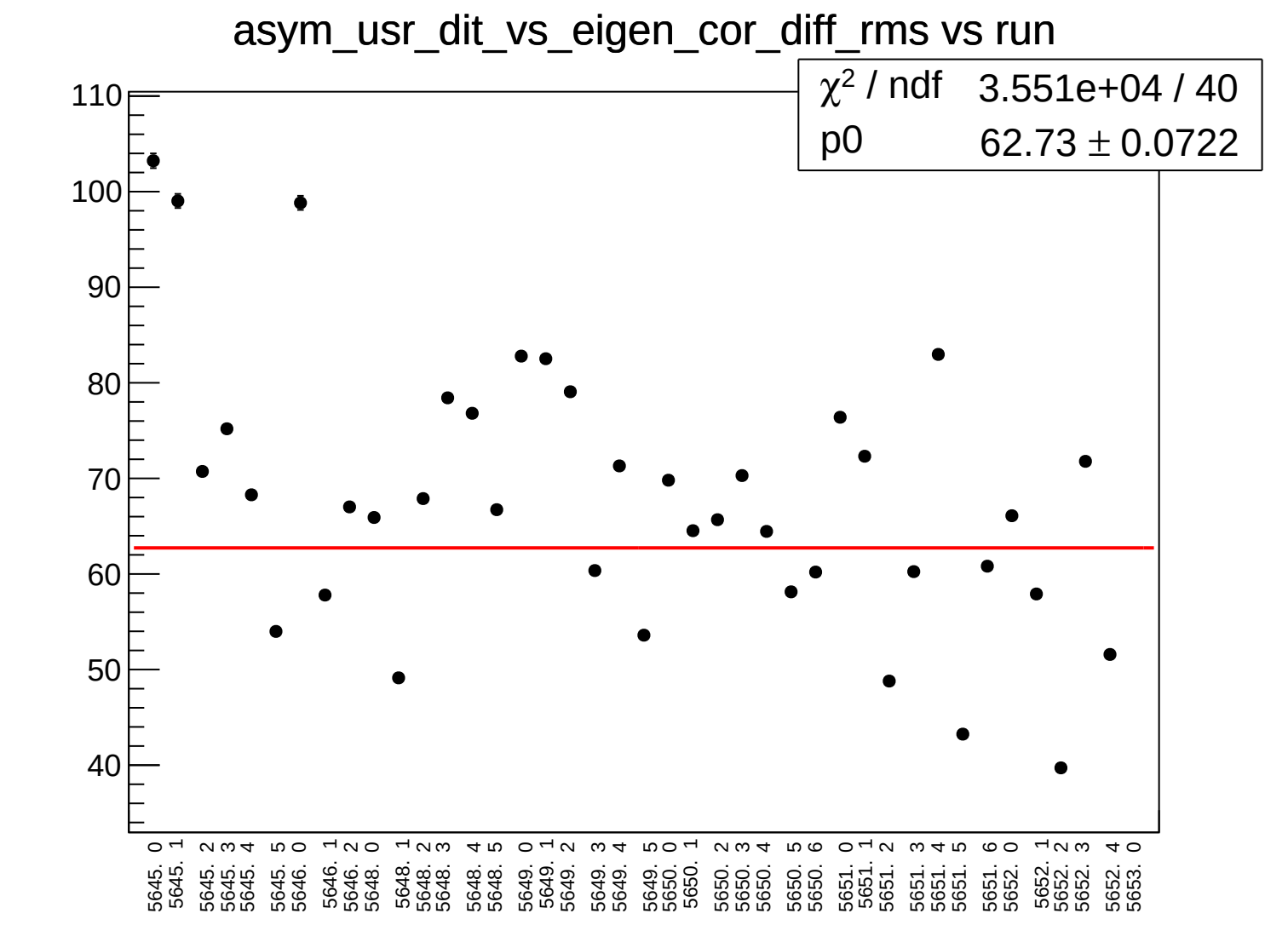

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 35.34 / 40
p0 −0.01058 ± 0.1021
pull
Entries 41
Mean 20.74
Std Dev 0

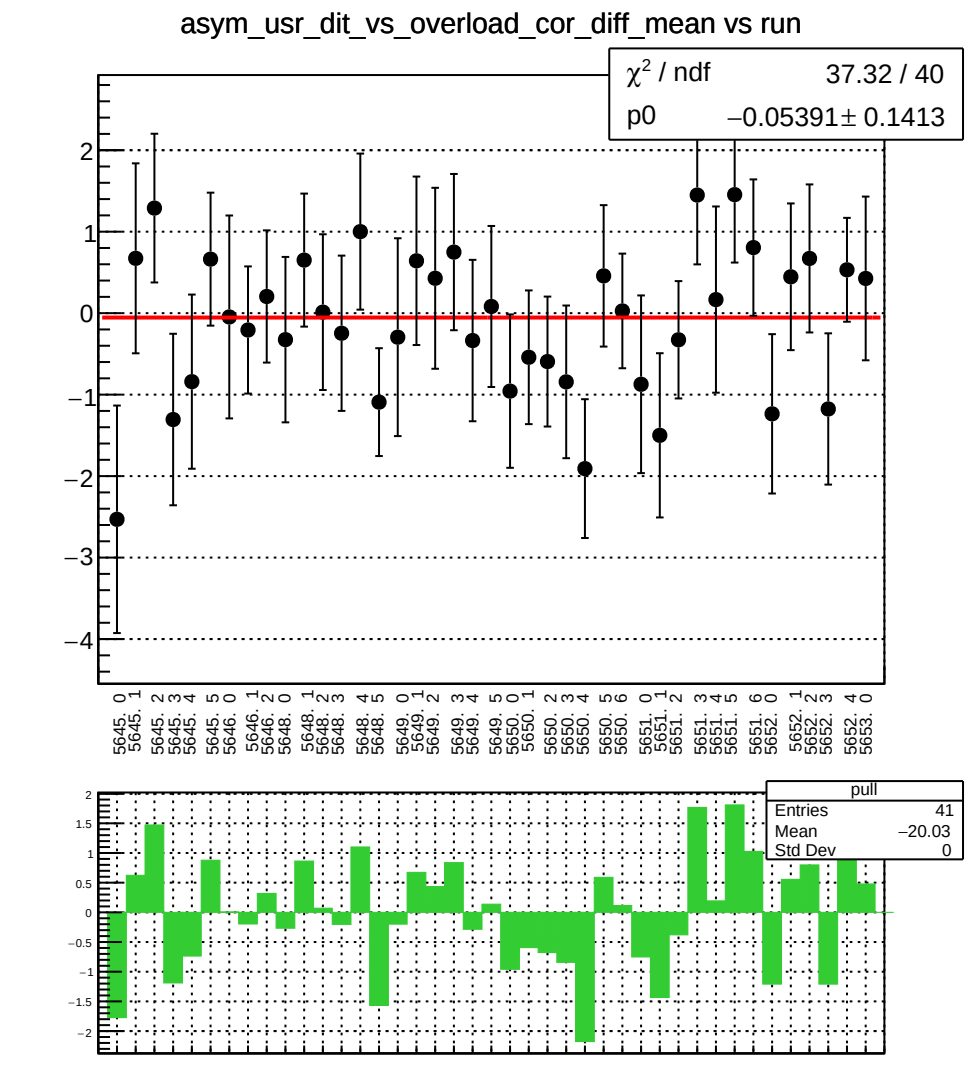

pull1D
Entries 41
Mean −0.06229
Std Dev 0.9263

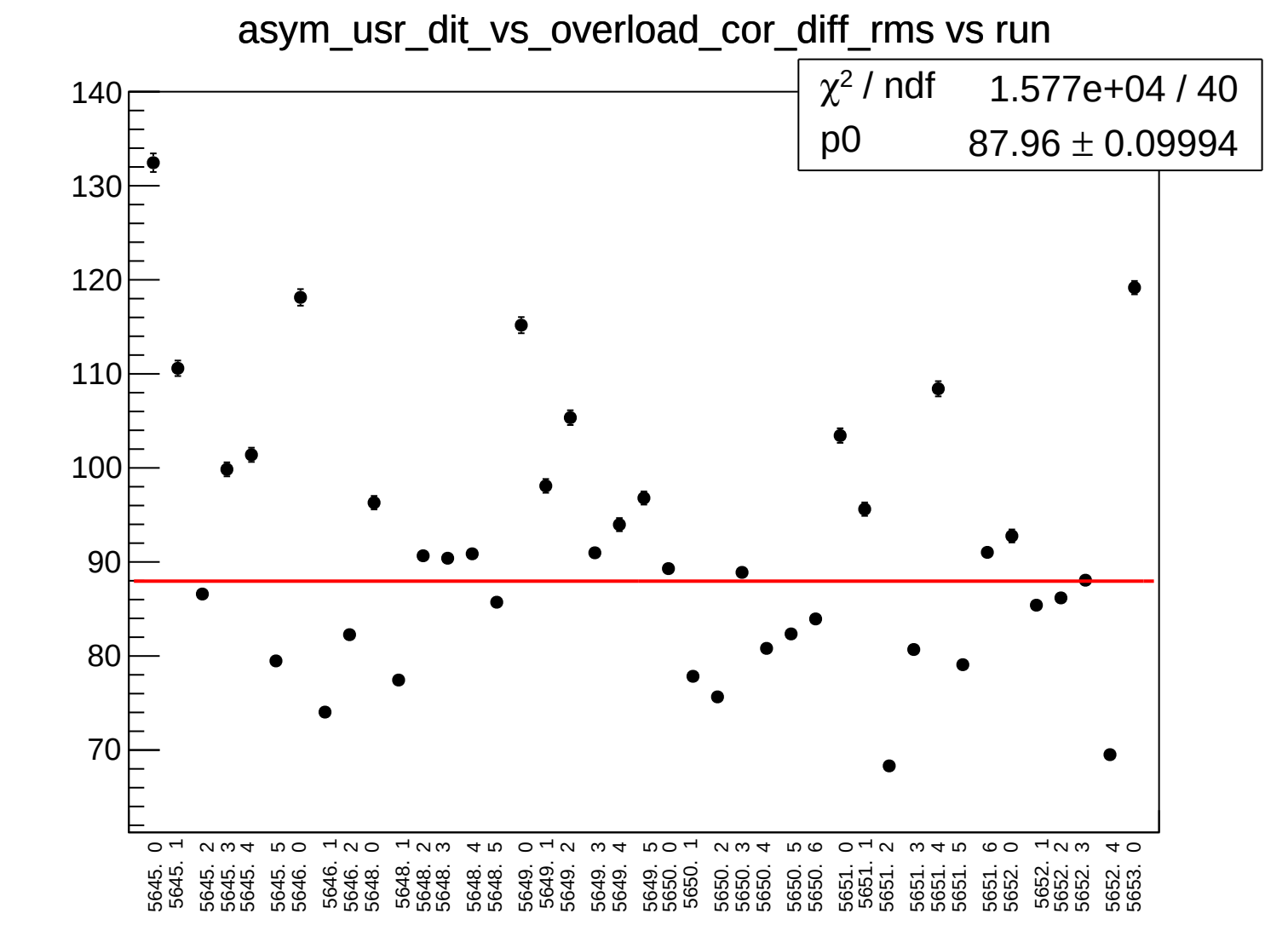

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.551e+04 / 40
p0 62.73 ± 0.0722
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

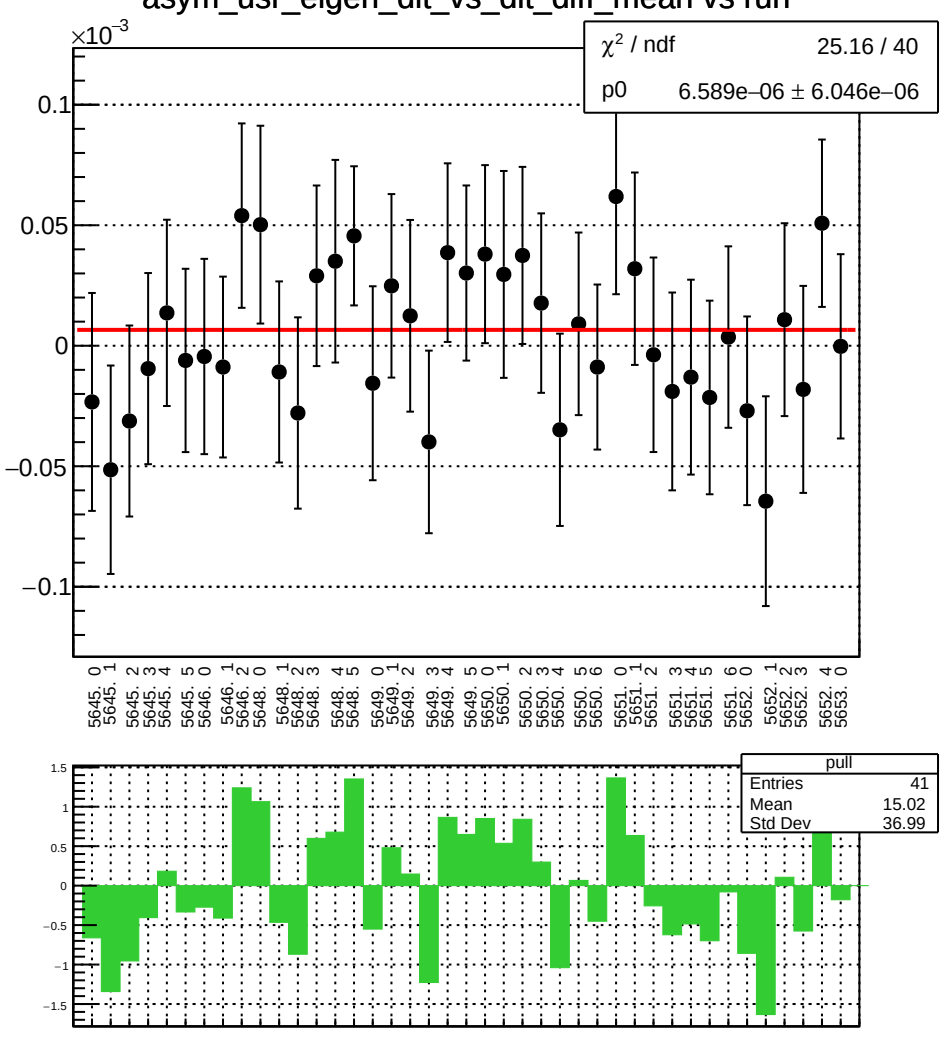

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.34 / 40
p0 −0.01058 ± 0.1021
pull
Entries 41
Mean 20.74
Std Dev 0

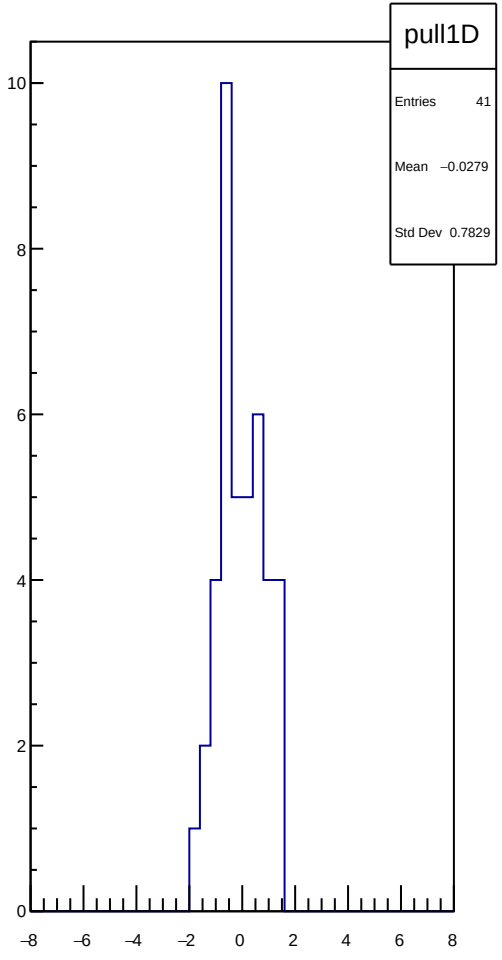

pull1D
Entries 41
Mean −0.06229
Std Dev 0.9263

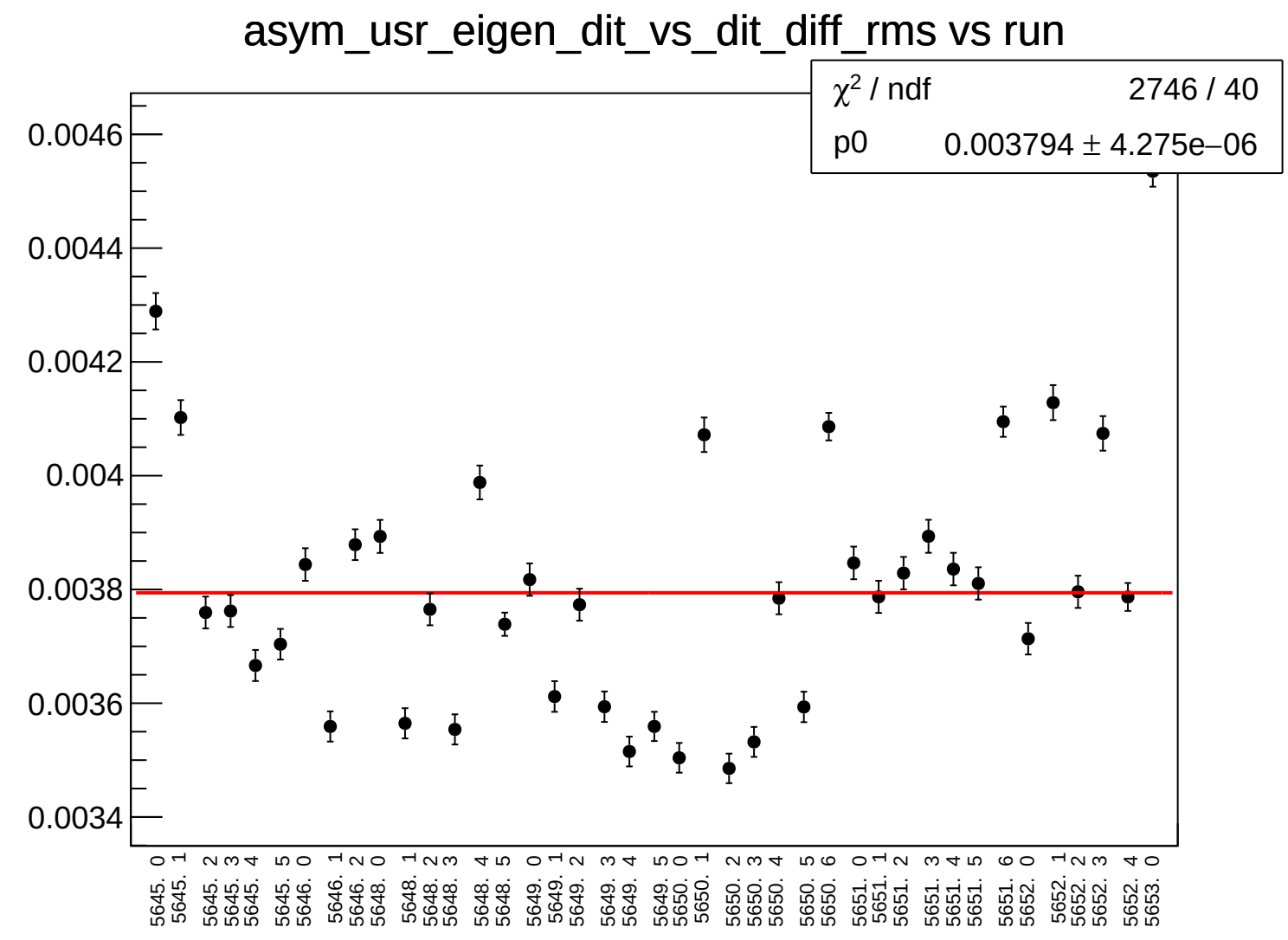

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.551e+04 / 40
p0 62.73 ± 0.0722
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

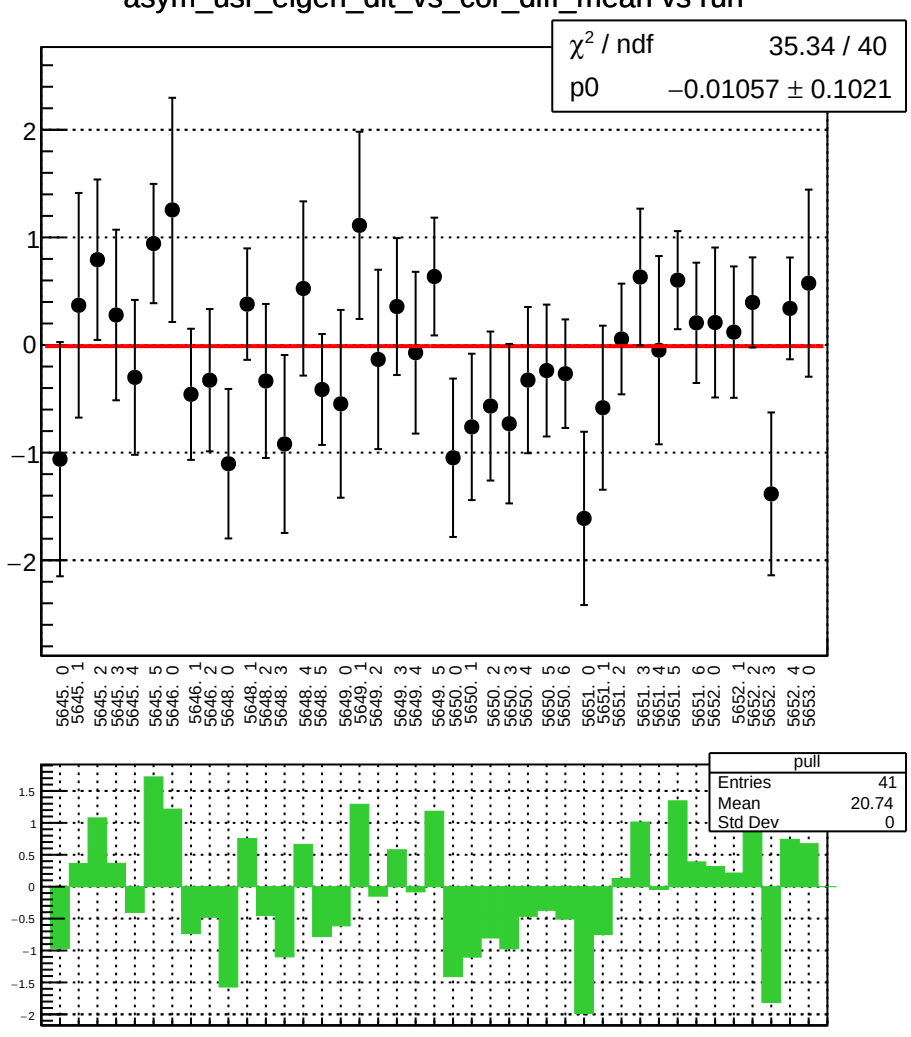

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.32 / 40
p0 −0.05391 ± 0.1413
pull
Entries 41
Mean −20.03
Std Dev 0
pull1D
Entries 41
Mean −0.02387
Std Dev 0.9538

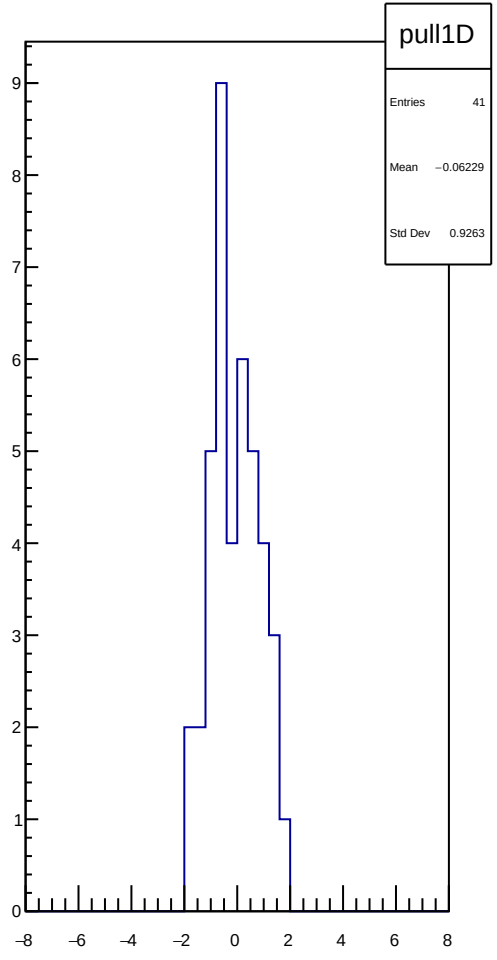

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.577e+04 / 40
p0 87.96 ± 0.09994
140
130
120
110
100
90
80
70
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

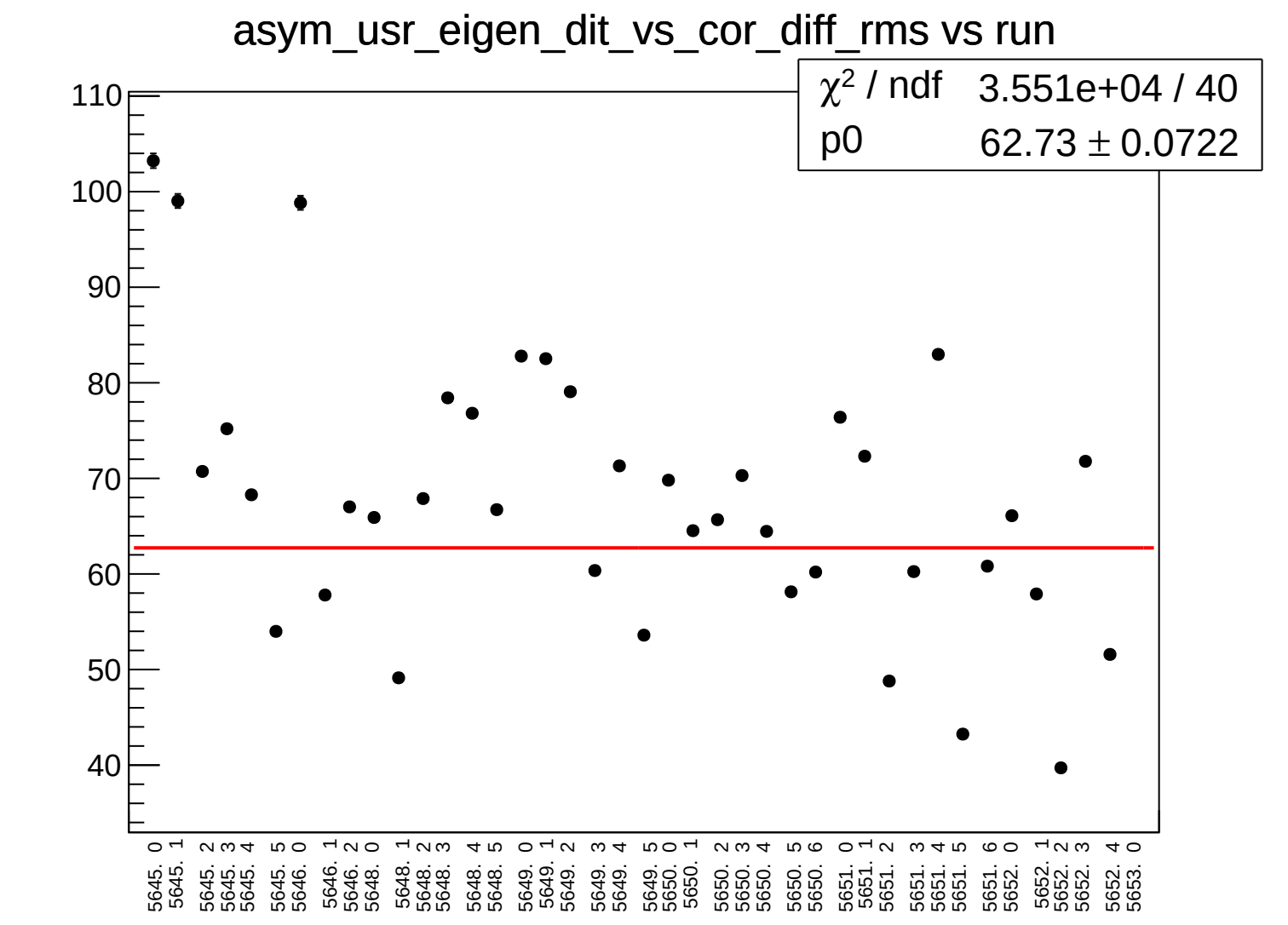

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.16 / 40
p0 6.589e−06 ± 6.046e−06
0.1
0.05
0
−0.05
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.02
Std Dev 36.99
1.5
1
0.5
0
−0.5
−1
−1.5

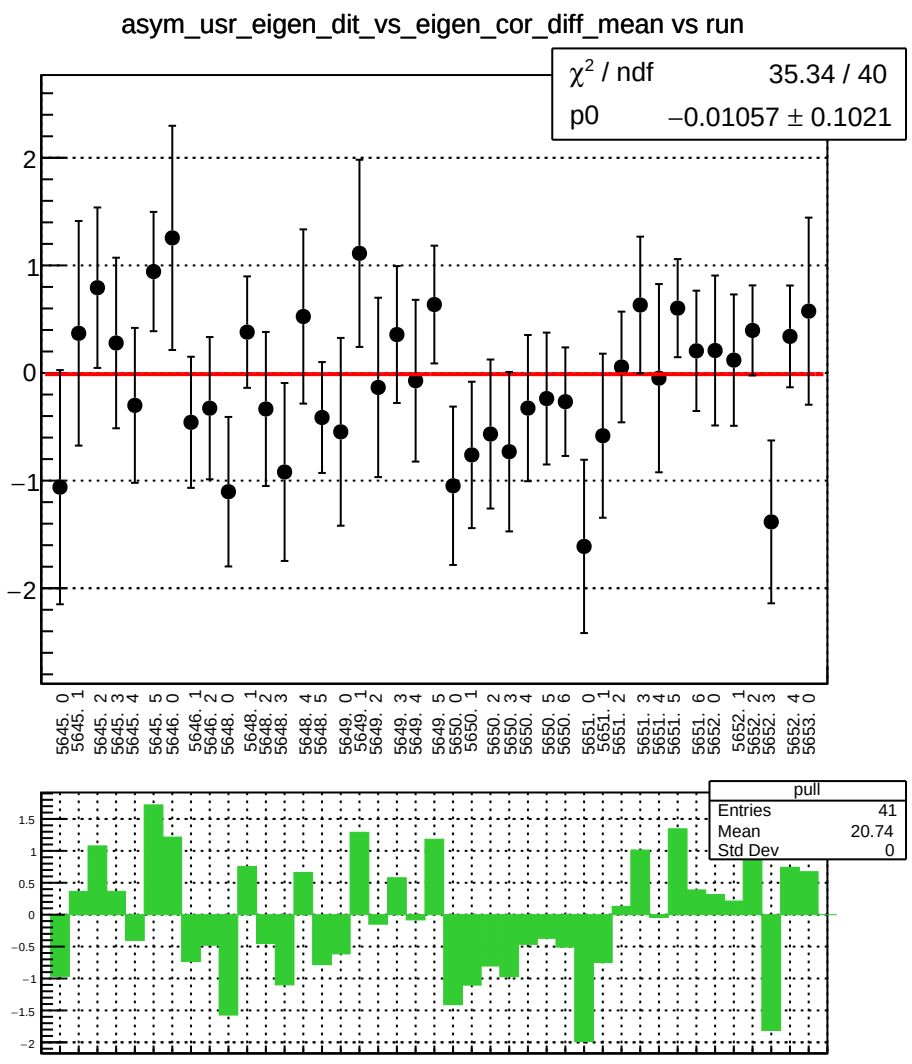

pull1D
Entries 41
Mean −0.0279
Std Dev 0.7829
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

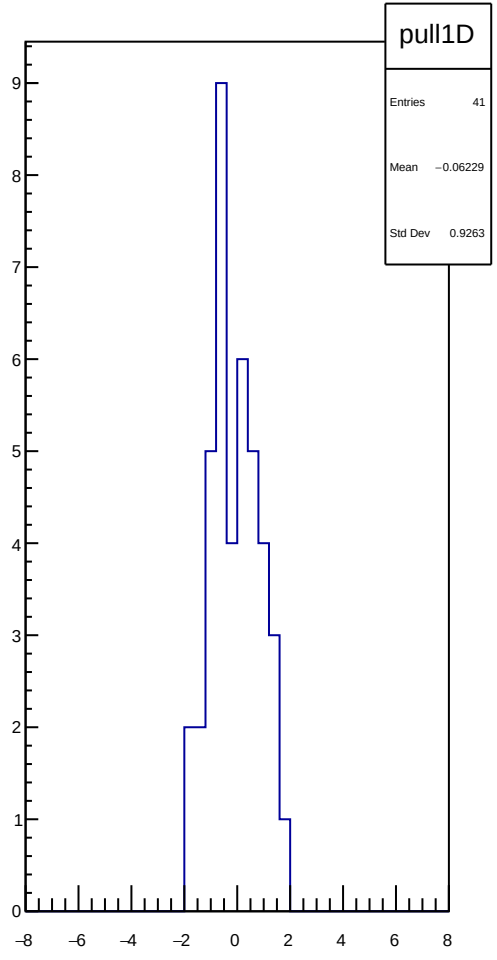

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2746 / 40
p0 0.003794 ± 4.275e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

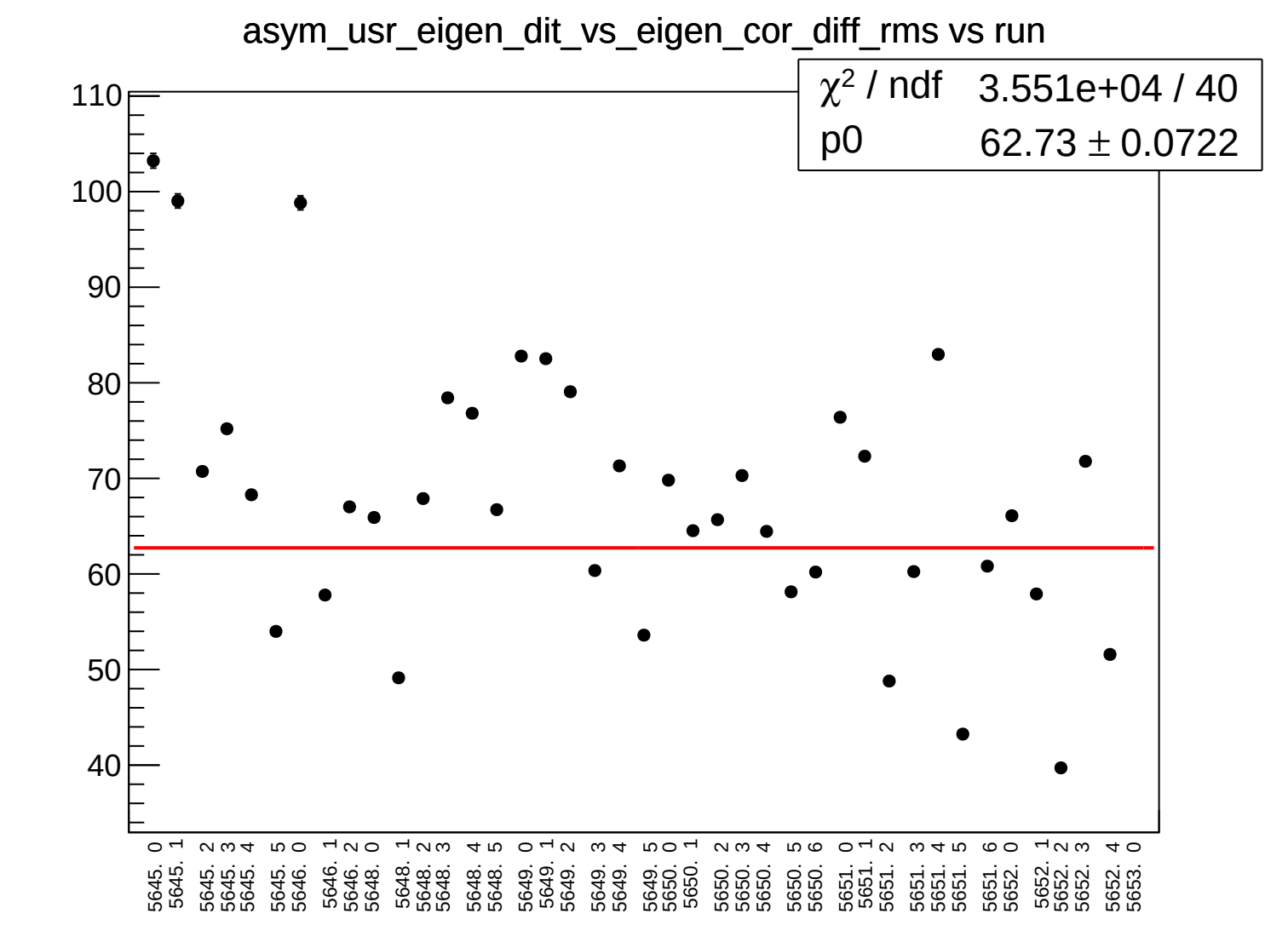

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.34 / 40
p0 −0.01057 ± 0.1021
pull
Entries 41
Mean 20.74
Std Dev 0

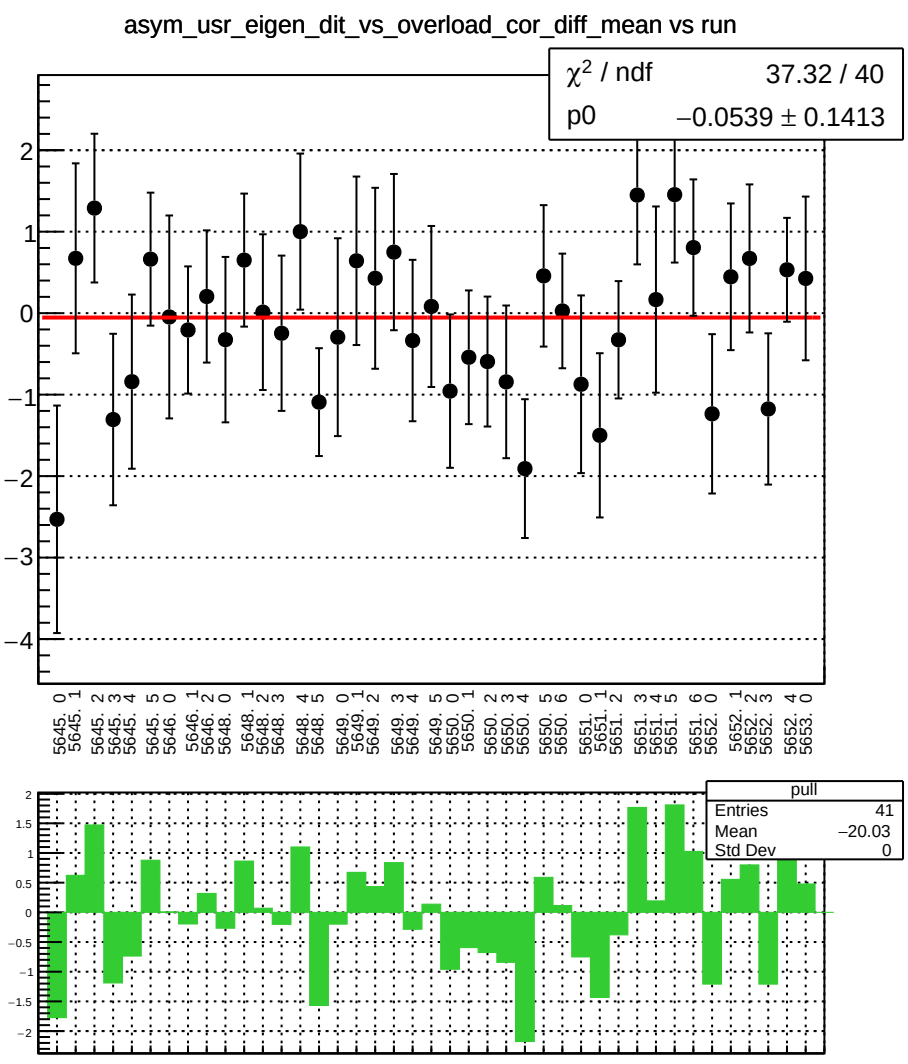

pull1D
Entries 41
Mean −0.06229
Std Dev 0.9263

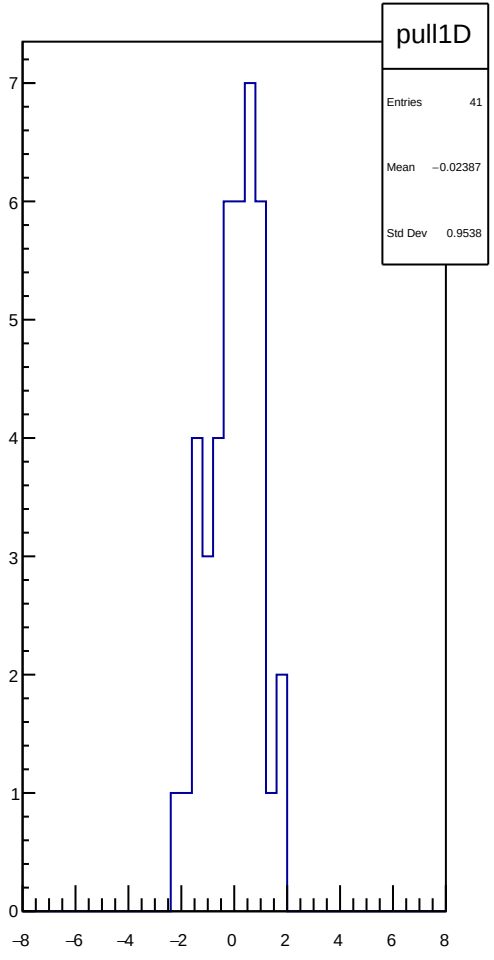

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.551e+04 / 40
p0 62.73 ± 0.0722
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

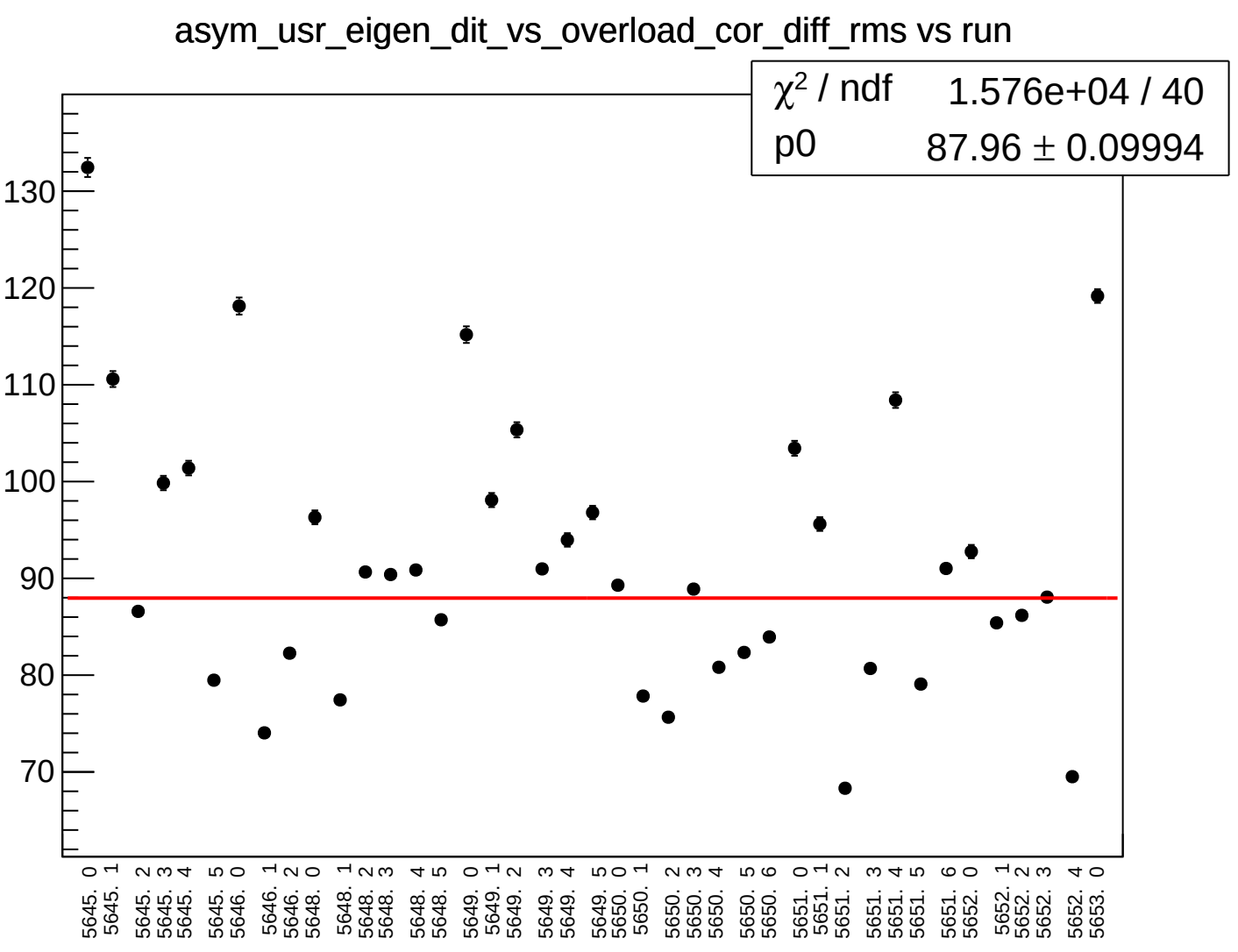

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.34 / 40
p0 −0.01057 ± 0.1021
pull
Entries 41
Mean 20.74
Std Dev 0

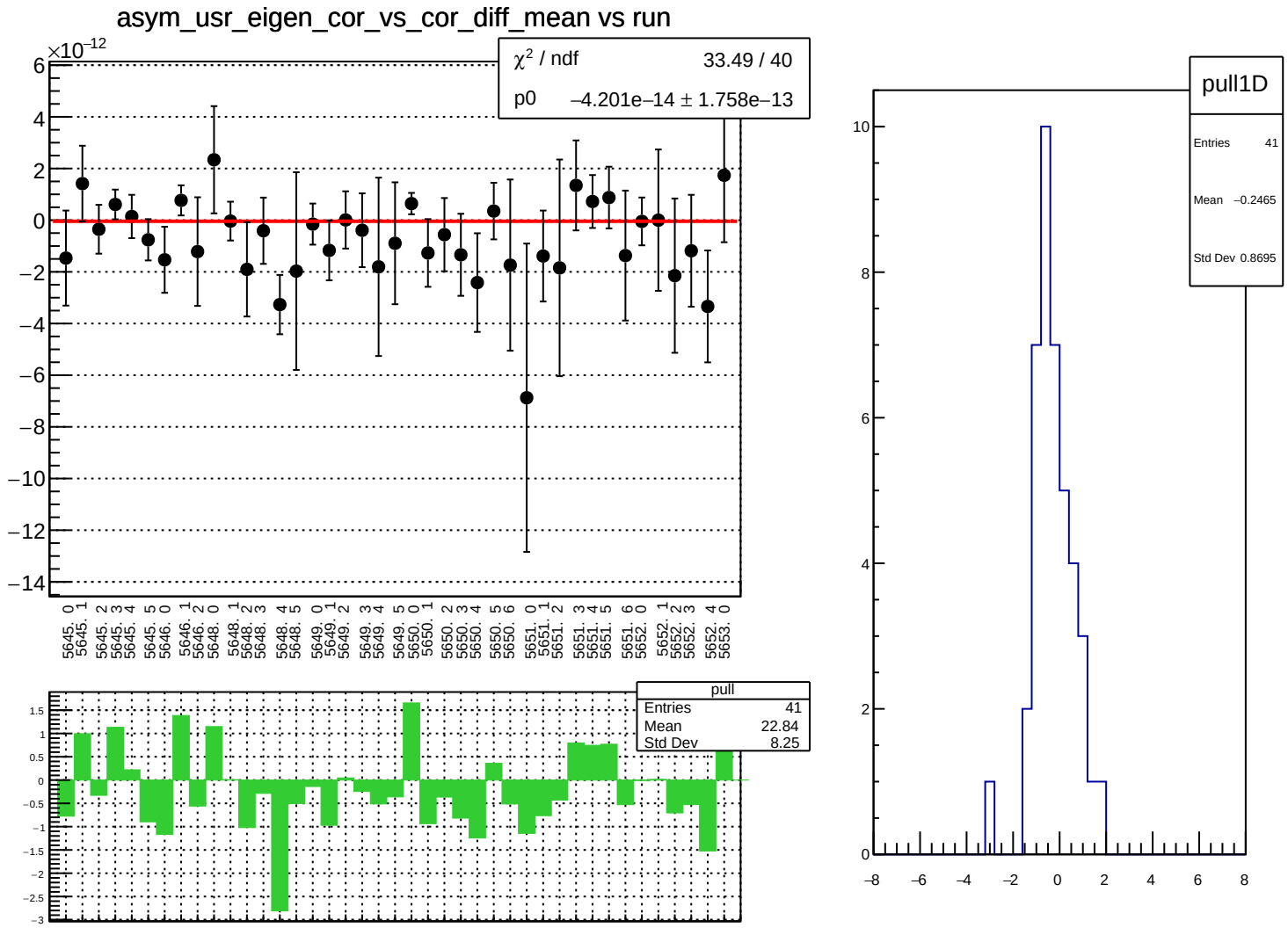

pull1D
Entries 41
Mean −0.06229
Std Dev 0.9263

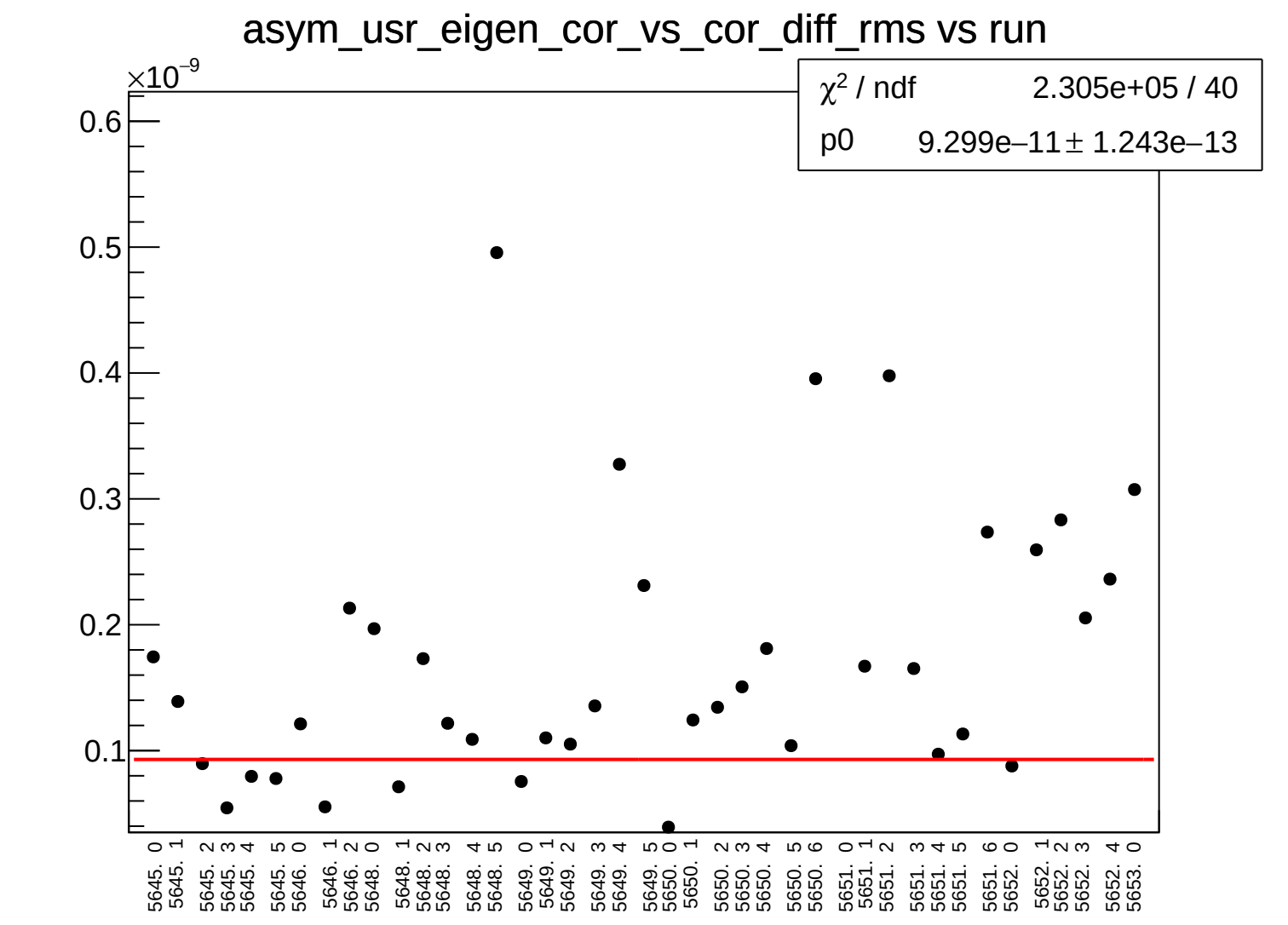

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.551e+04 / 40
p0 62.73 ± 0.0722
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

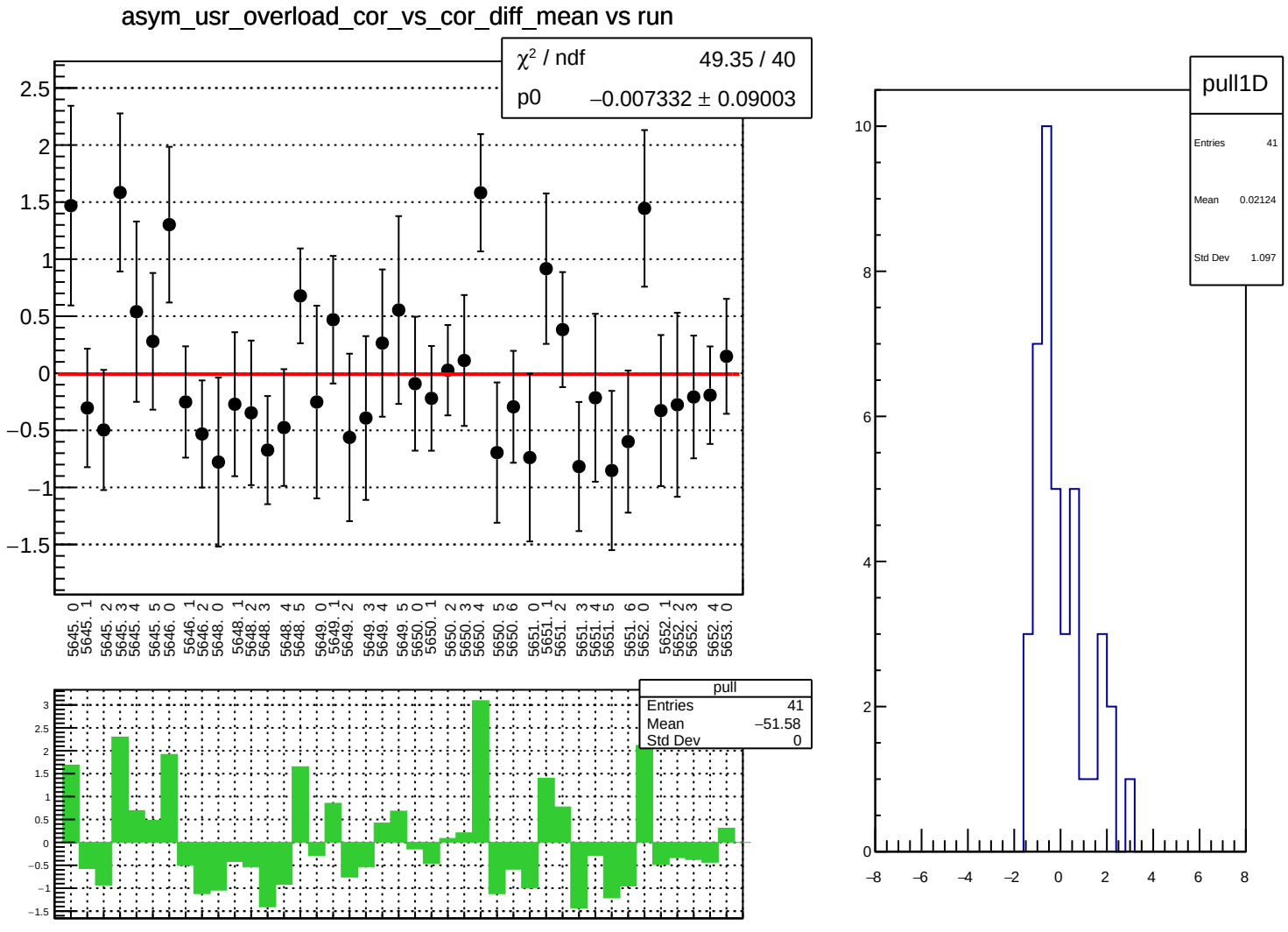

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 37.32 / 40
p0 −0.0539 ± 0.1413
pull
Entries 41
Mean −20.03
Std Dev 0

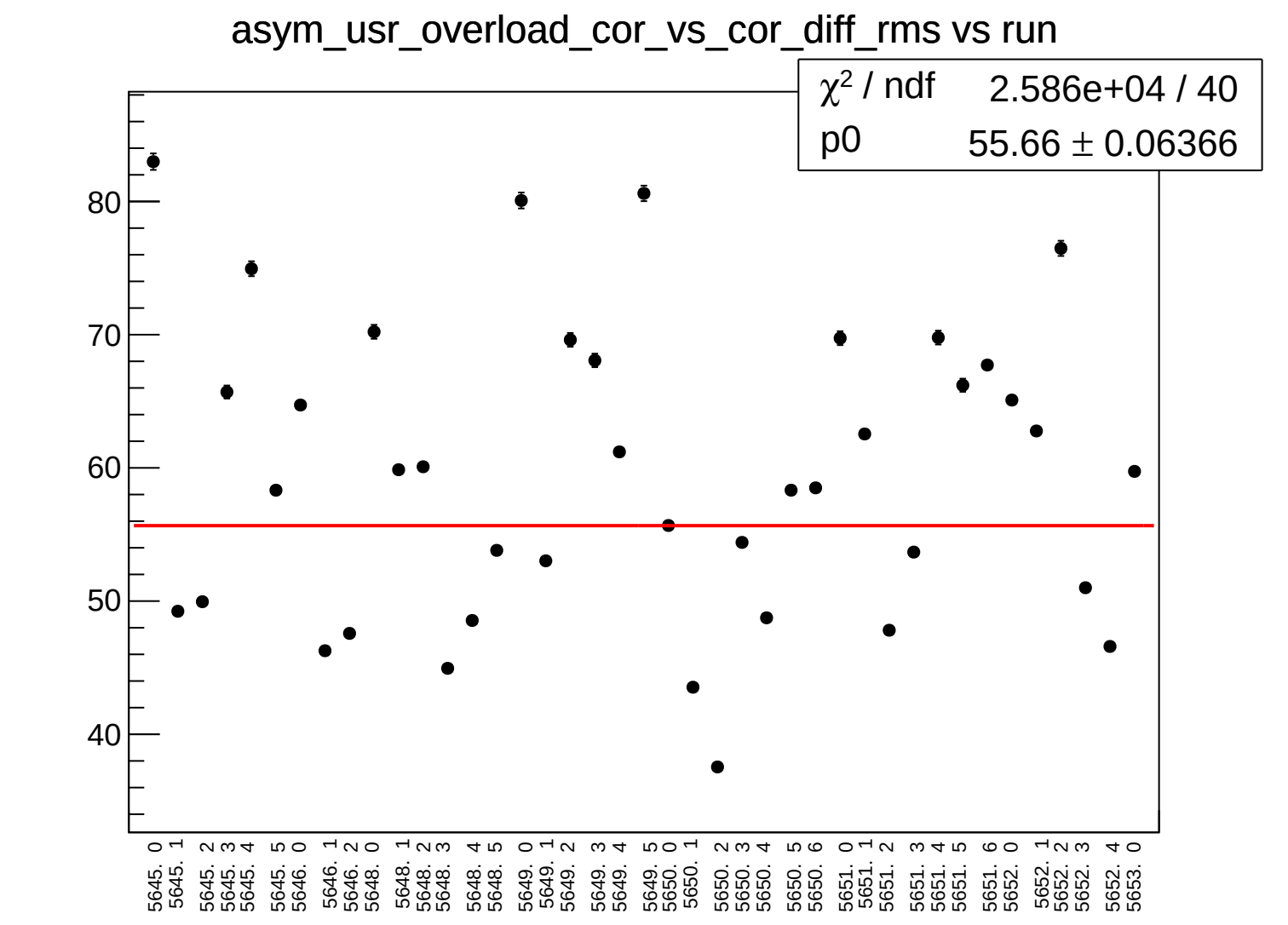

pull1D
Entries 41
Mean −0.02387
Std Dev 0.9538

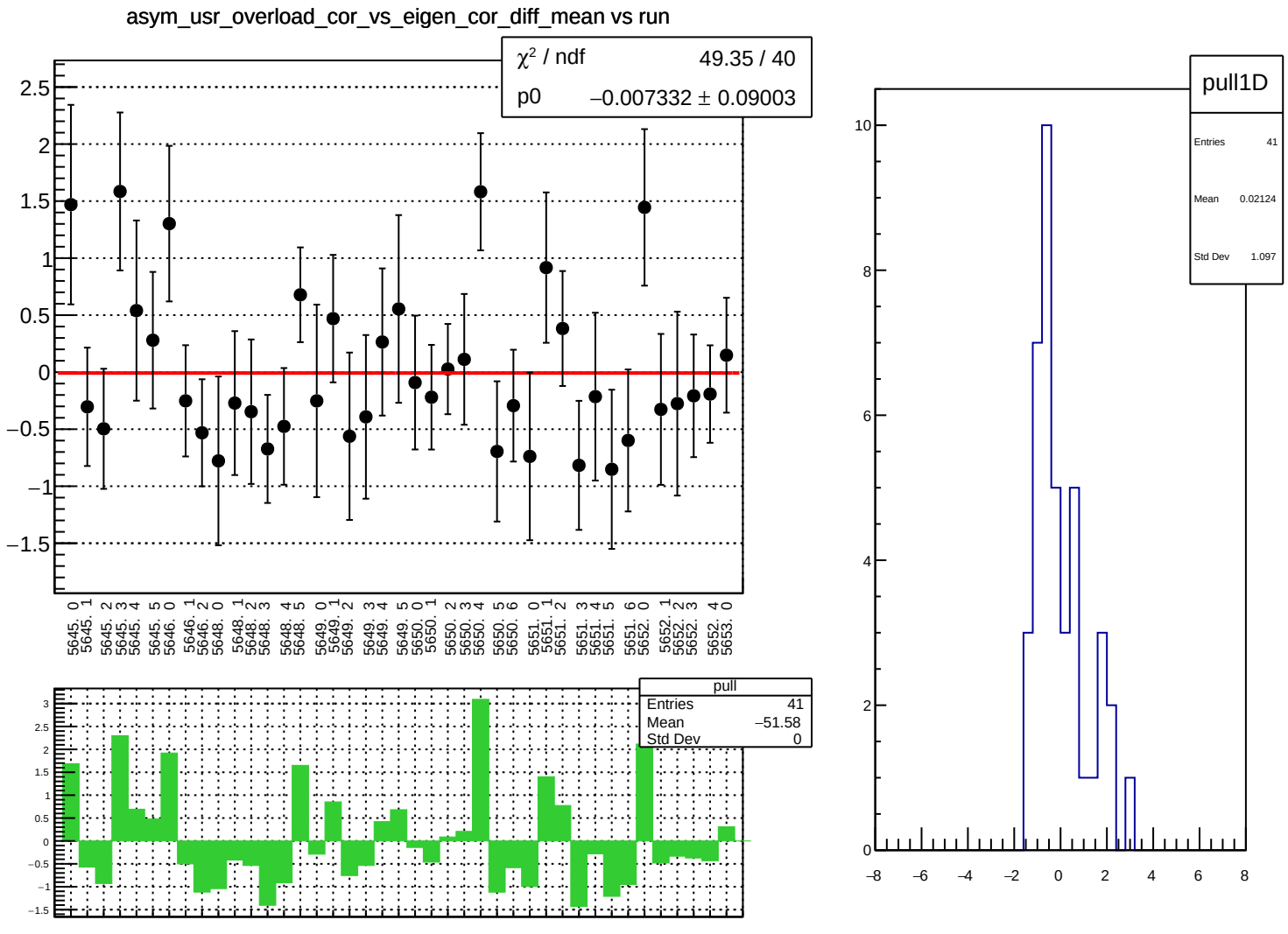

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.576e+04 / 40
p0 87.96 ± 0.09994
130
120
110
100
90
80
70
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

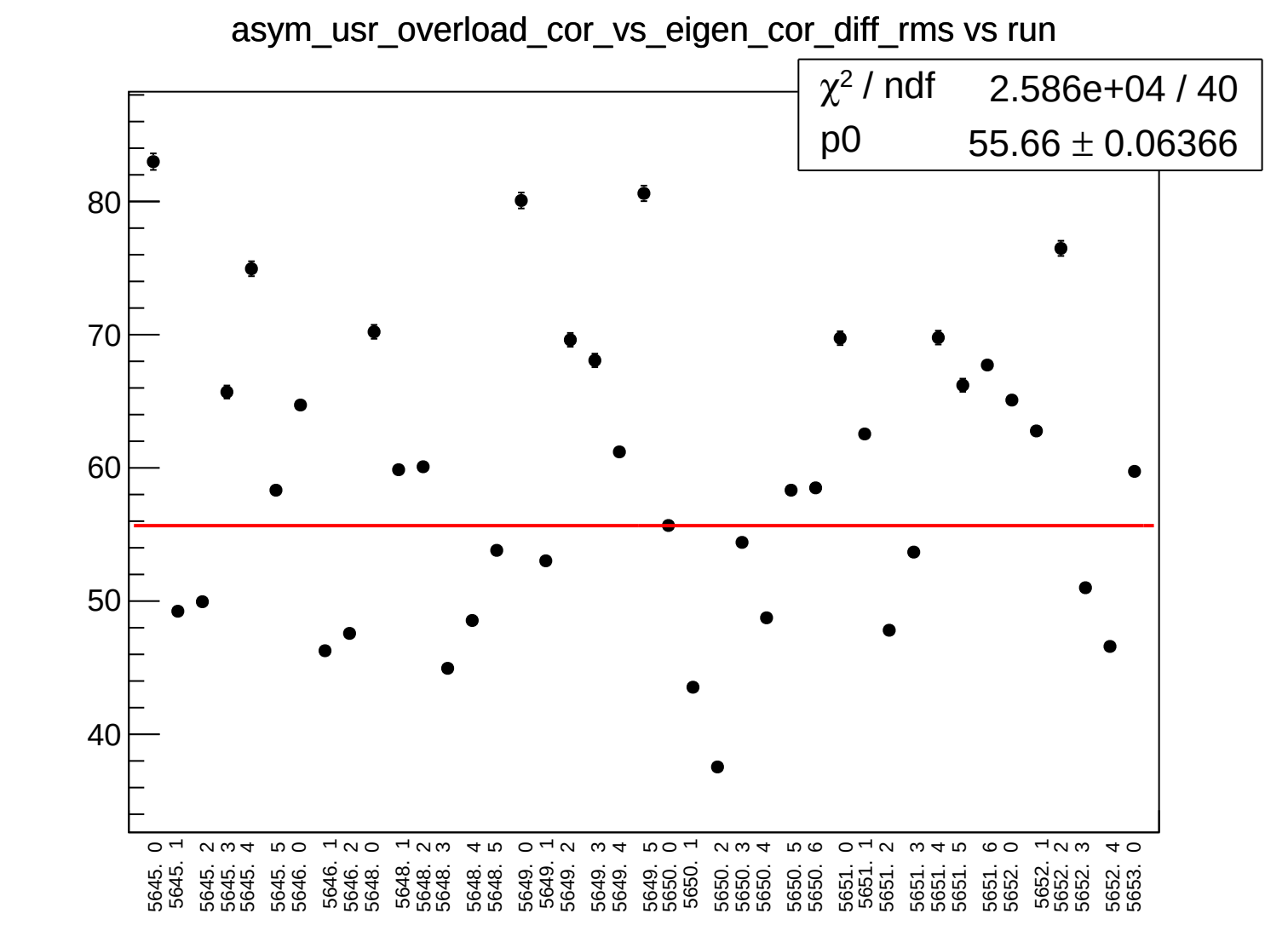

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.49 / 40
p0 −4.201e−14 ± 1.758e−13
pull
Entries 41
Mean 22.84
Std Dev 8.25
pull1D
Entries 41
Mean −0.2465
Std Dev 0.8695

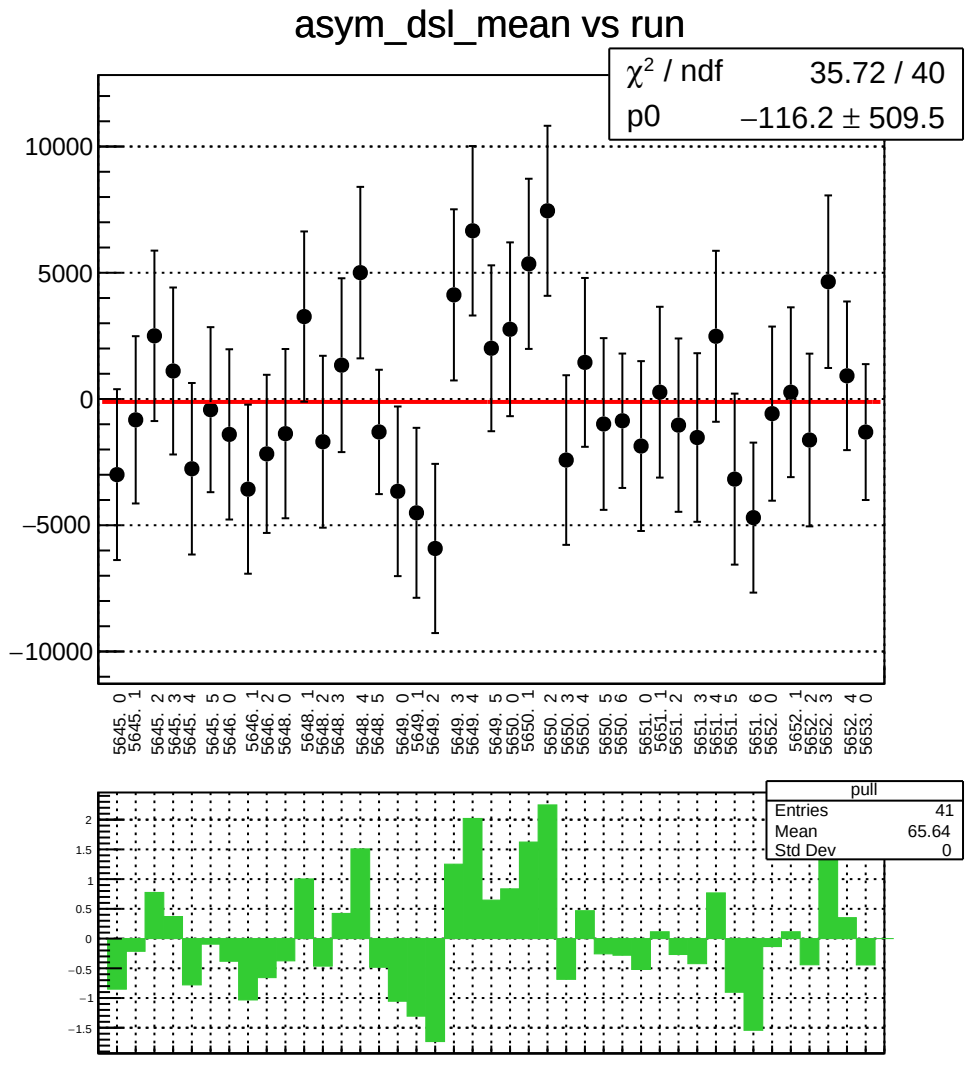

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.305e+05 / 40
p0 9.299e−11 ± 1.243e−13
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

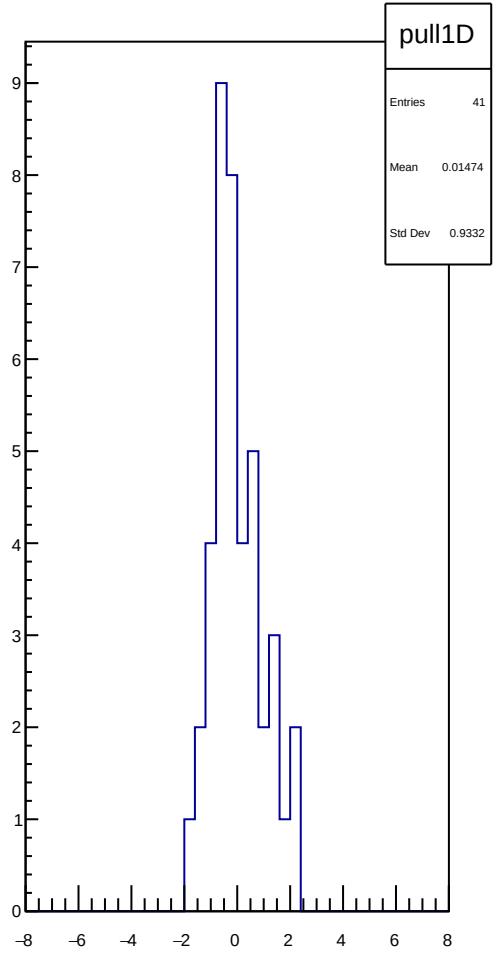

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 49.35 / 40
p0 −0.007332 ± 0.09003
pull
Entries 41
Mean −51.58
Std Dev 0
pull1D
Entries 41
Mean 0.02124
Std Dev 1.097

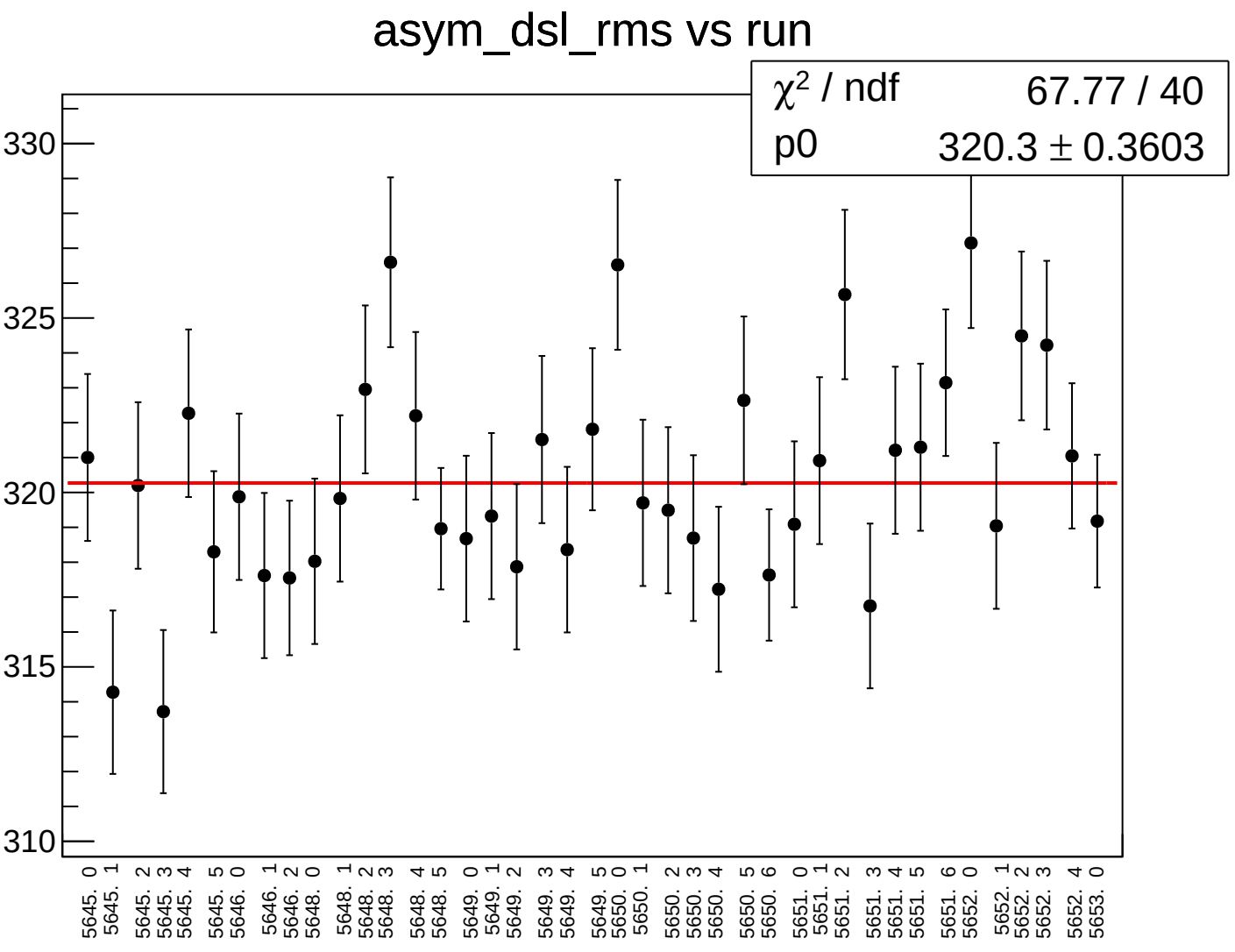

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.586e+04 / 40
p0 55.66 ± 0.06366
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

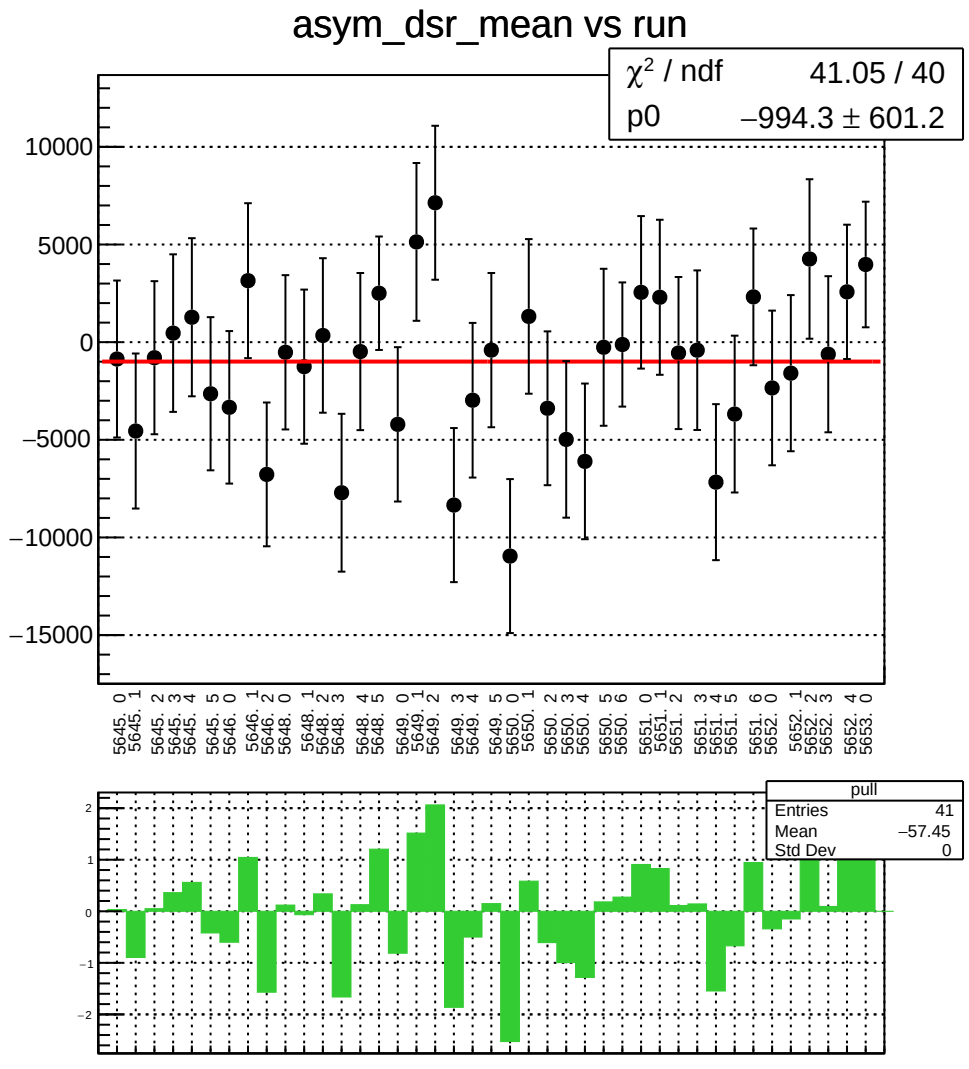

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.35 / 40
p0 −0.007332 ± 0.09003
pull
Entries 41
Mean −51.58
Std Dev 0
pull1D
Entries 41
Mean 0.02124
Std Dev 1.097

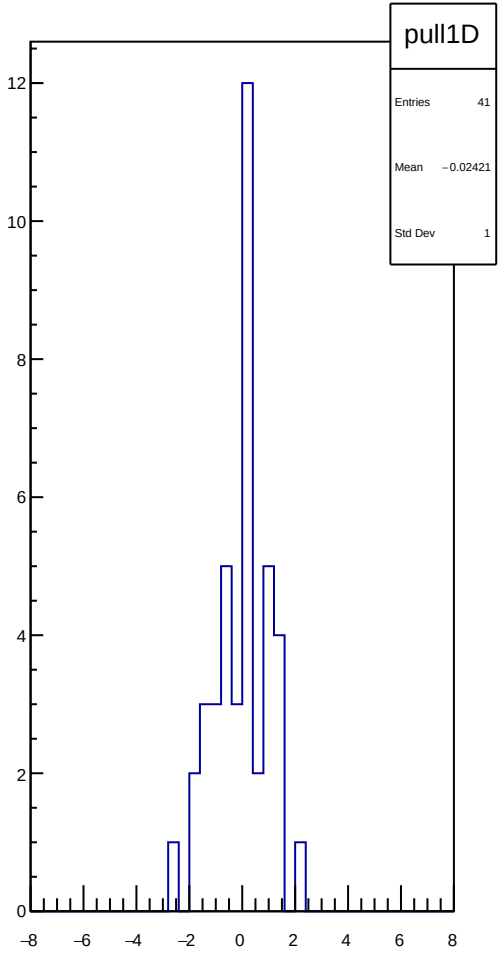

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.586e+04 / 40
p0 55.66 ± 0.06366
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

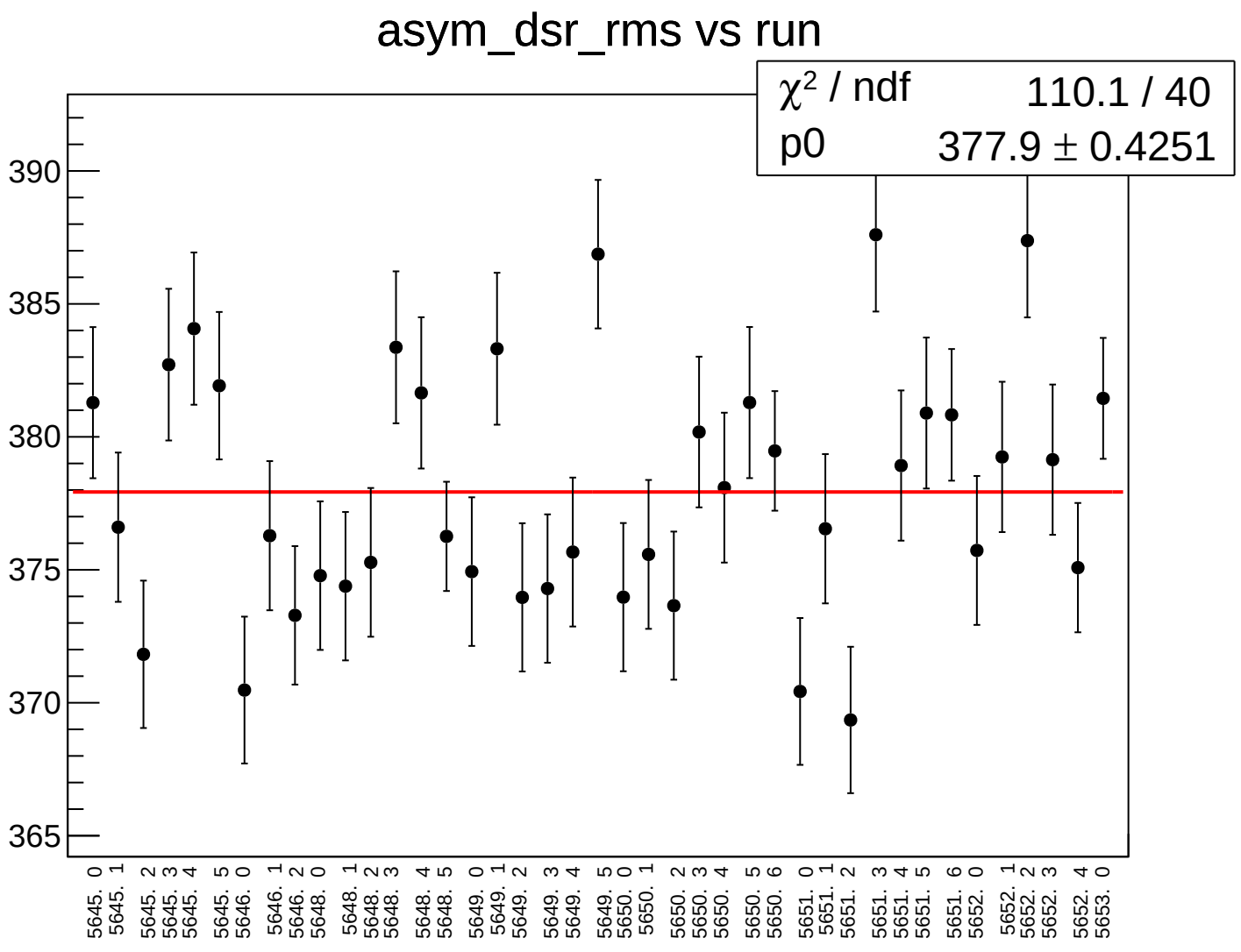

asym_dsl_mean vs run
χ^2 / ndf 35.72 / 40
p0 −116.2 ± 509.5
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 65.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

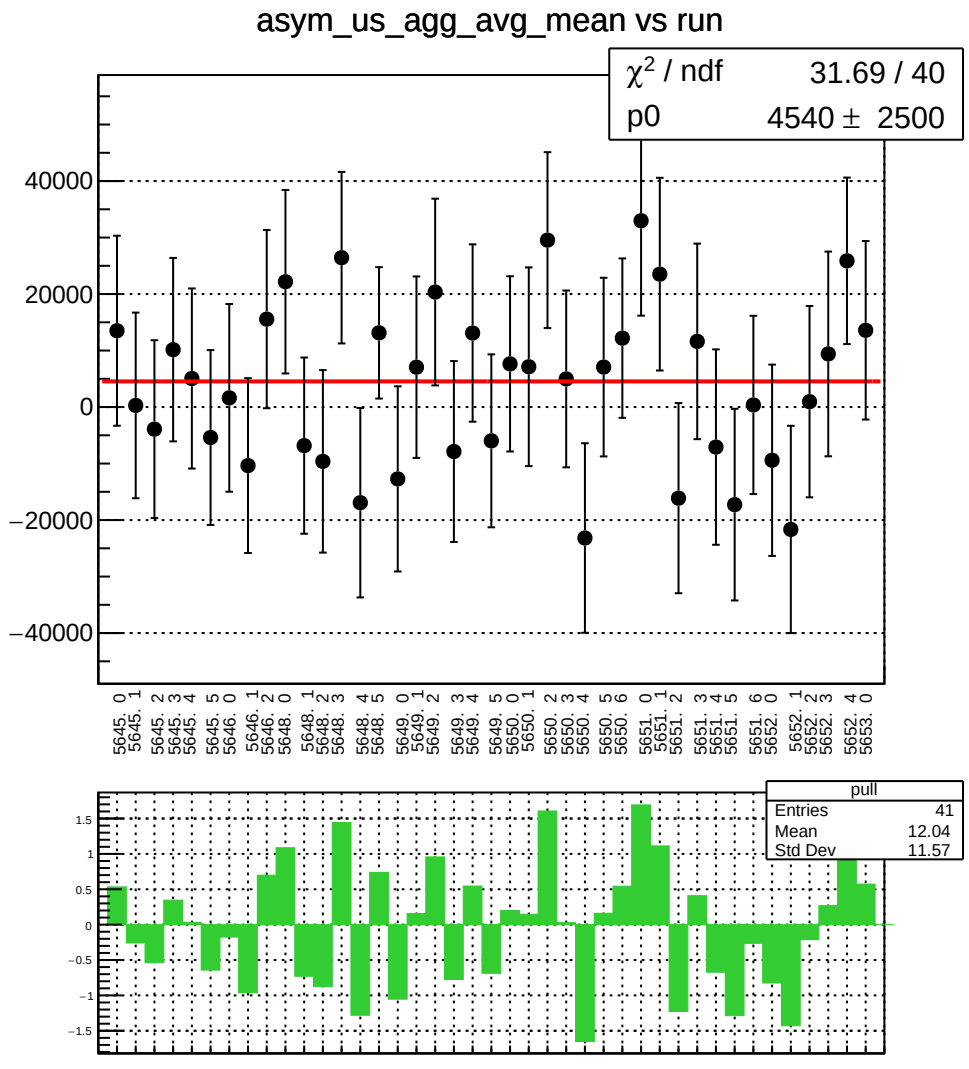

pull1D
Entries 41
Mean 0.01474
Std Dev 0.9332
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

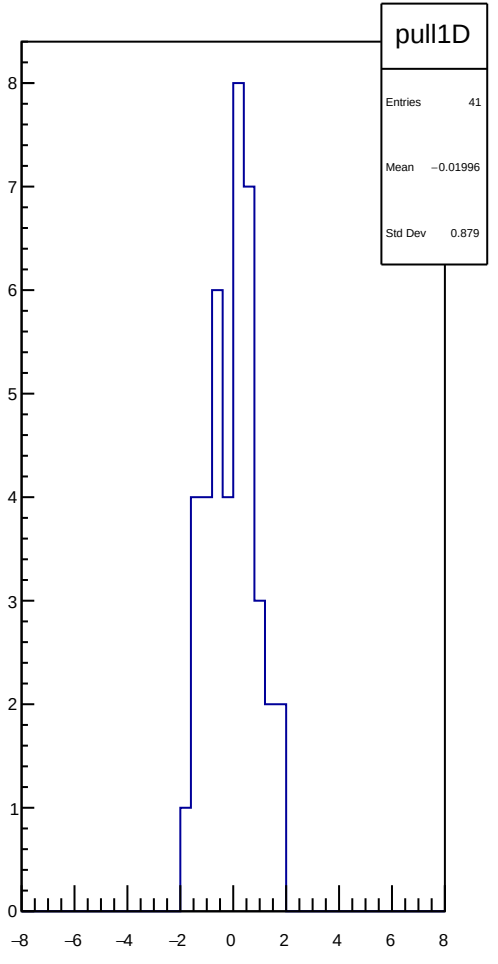

asym_dsl_rms vs run
χ² / ndf 67.77 / 40
p0 320.3 ± 0.3603
330
325
320
315
310
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

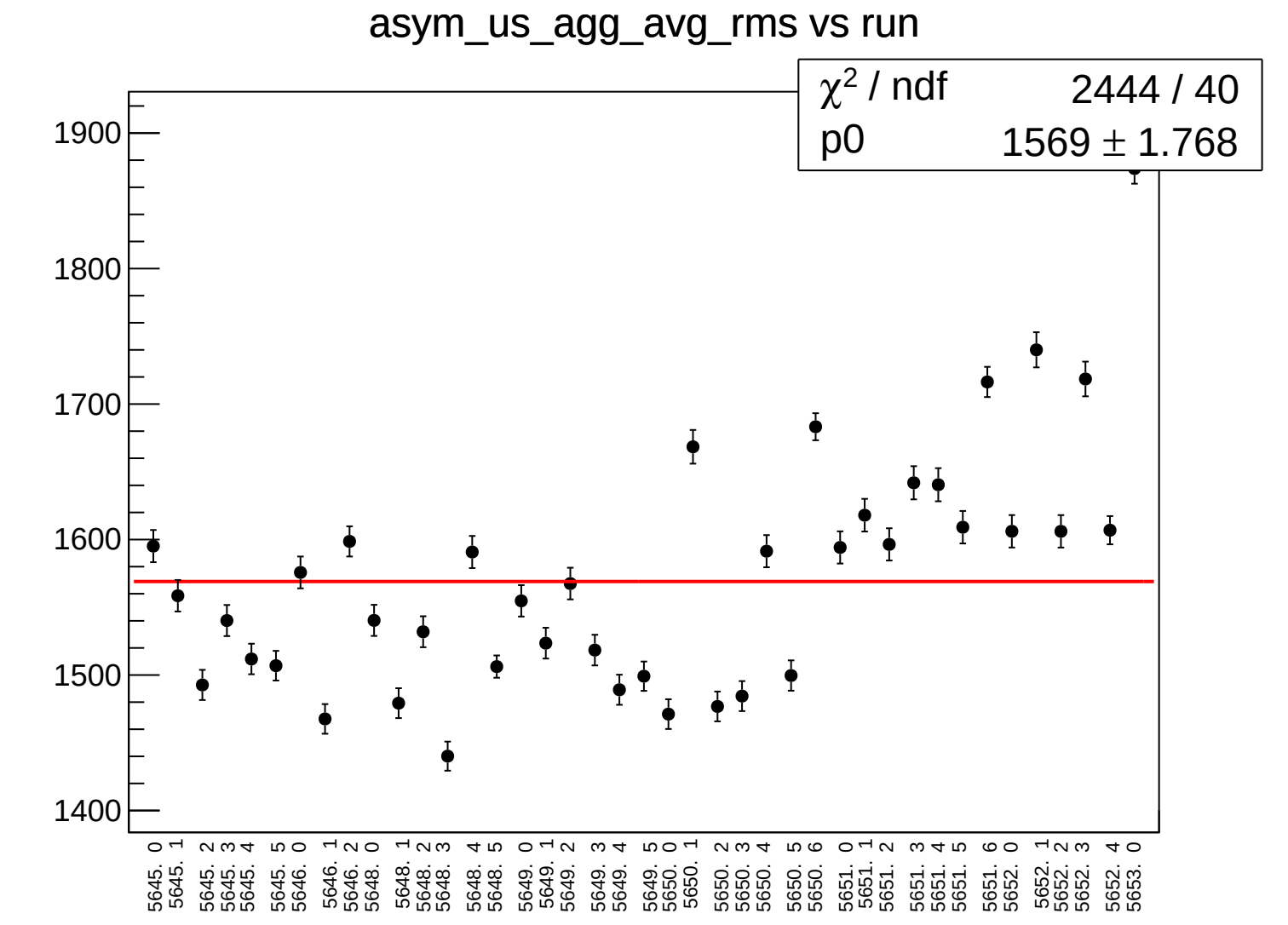

asym_dsr_mean vs run
χ² / ndf 41.05 / 40
p0 −994.3 ± 601.2
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −57.45
Std Dev 0
2
1
0
−1
−2

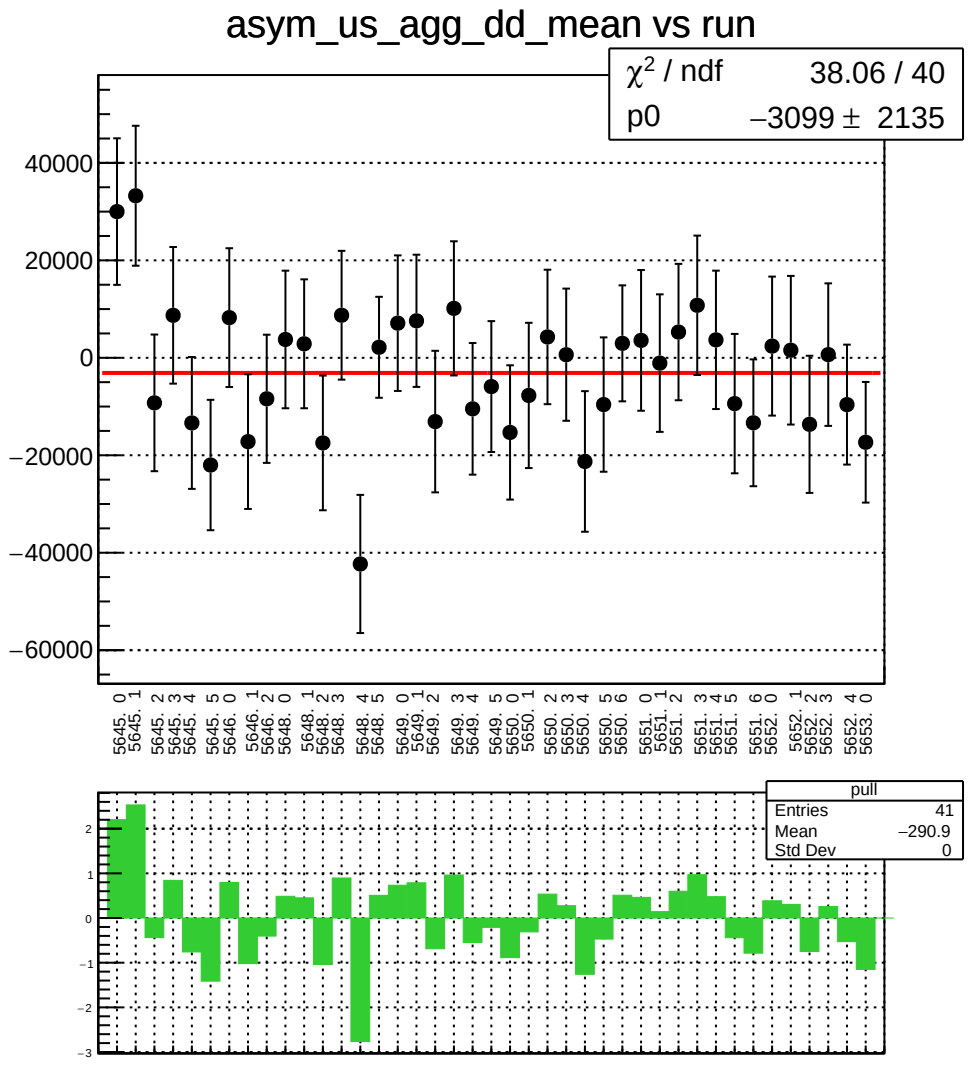

pull1D
Entries 41
Mean −0.02421
Std Dev 1
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

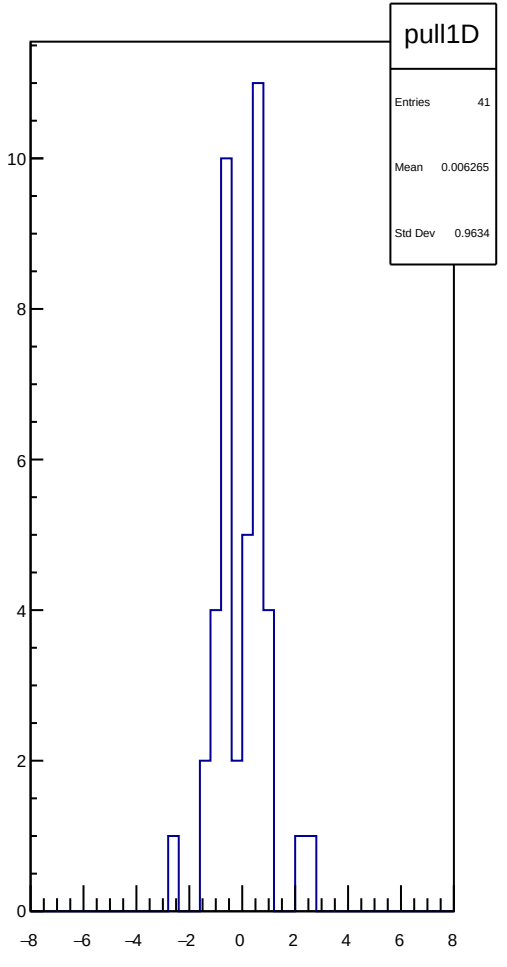

asym_dsr_rms vs run
χ² / ndf 110.1 / 40
p0 377.9 ± 0.4251
390
385
380
375
370
365
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

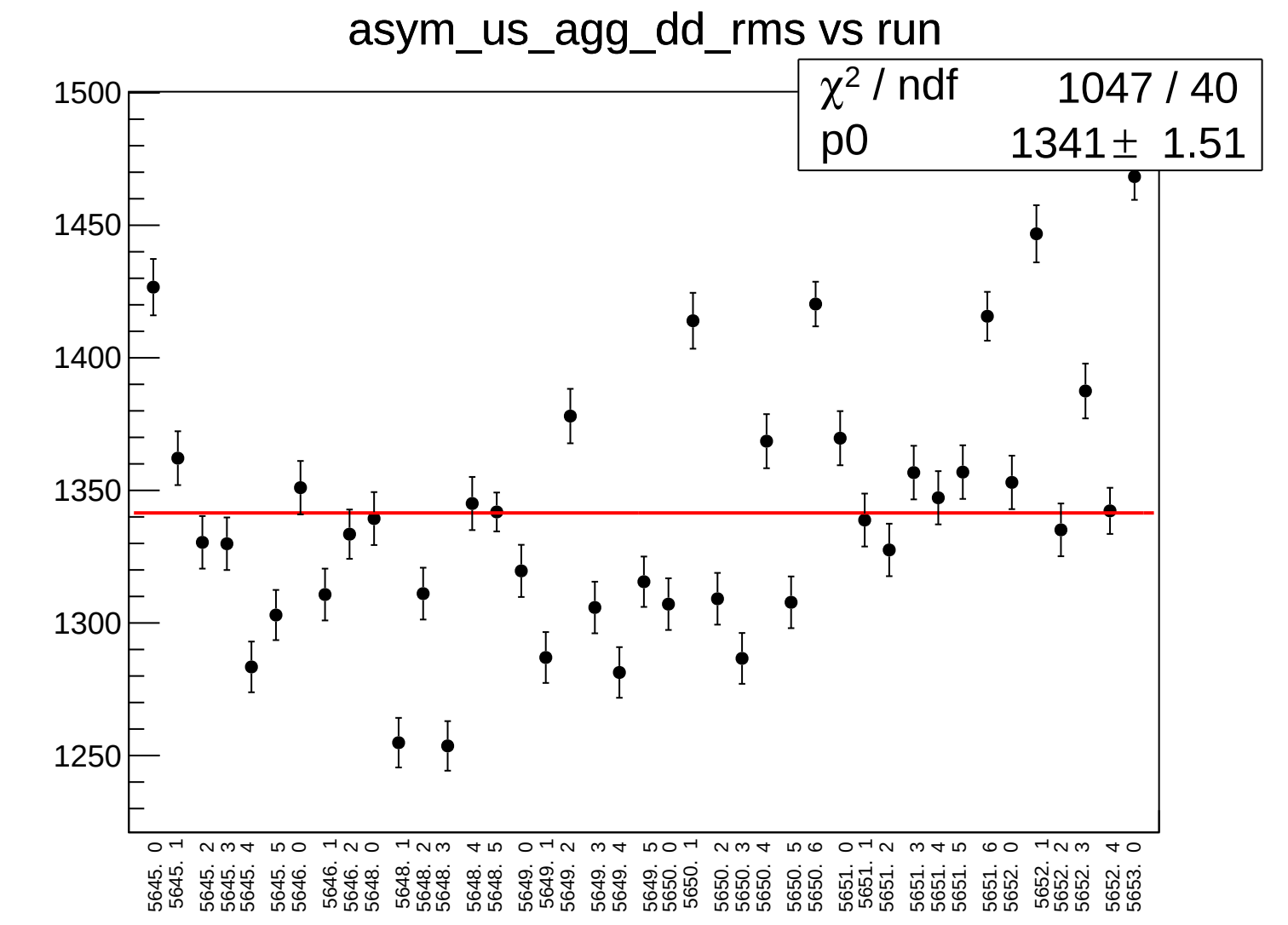

asym_us_agg_avg_mean vs run
χ² / ndf 31.69 / 40
p0 4540 ± 2500
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.04
Std Dev 11.57
1.5
1
0.5
0
−0.5
−1
−1.5

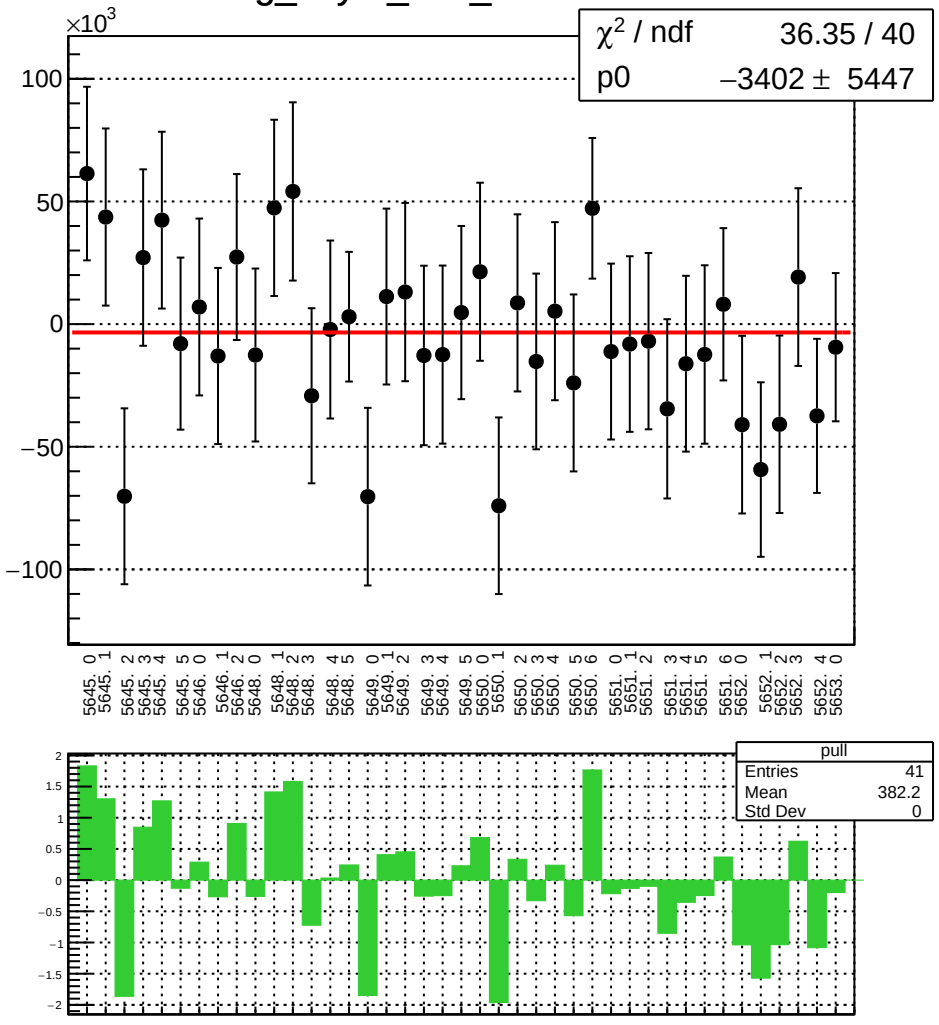

pull1D
Entries 41
Mean −0.01996
Std Dev 0.879
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

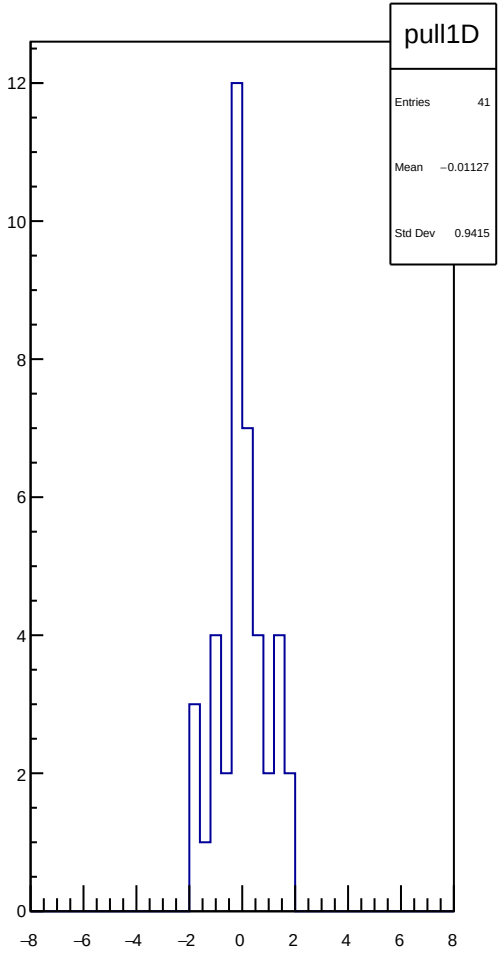

asym_us_agg_avg_rms vs run
χ² / ndf 2444 / 40
p0 1569 ± 1.768
1900
1800
1700
1600
1500
1400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

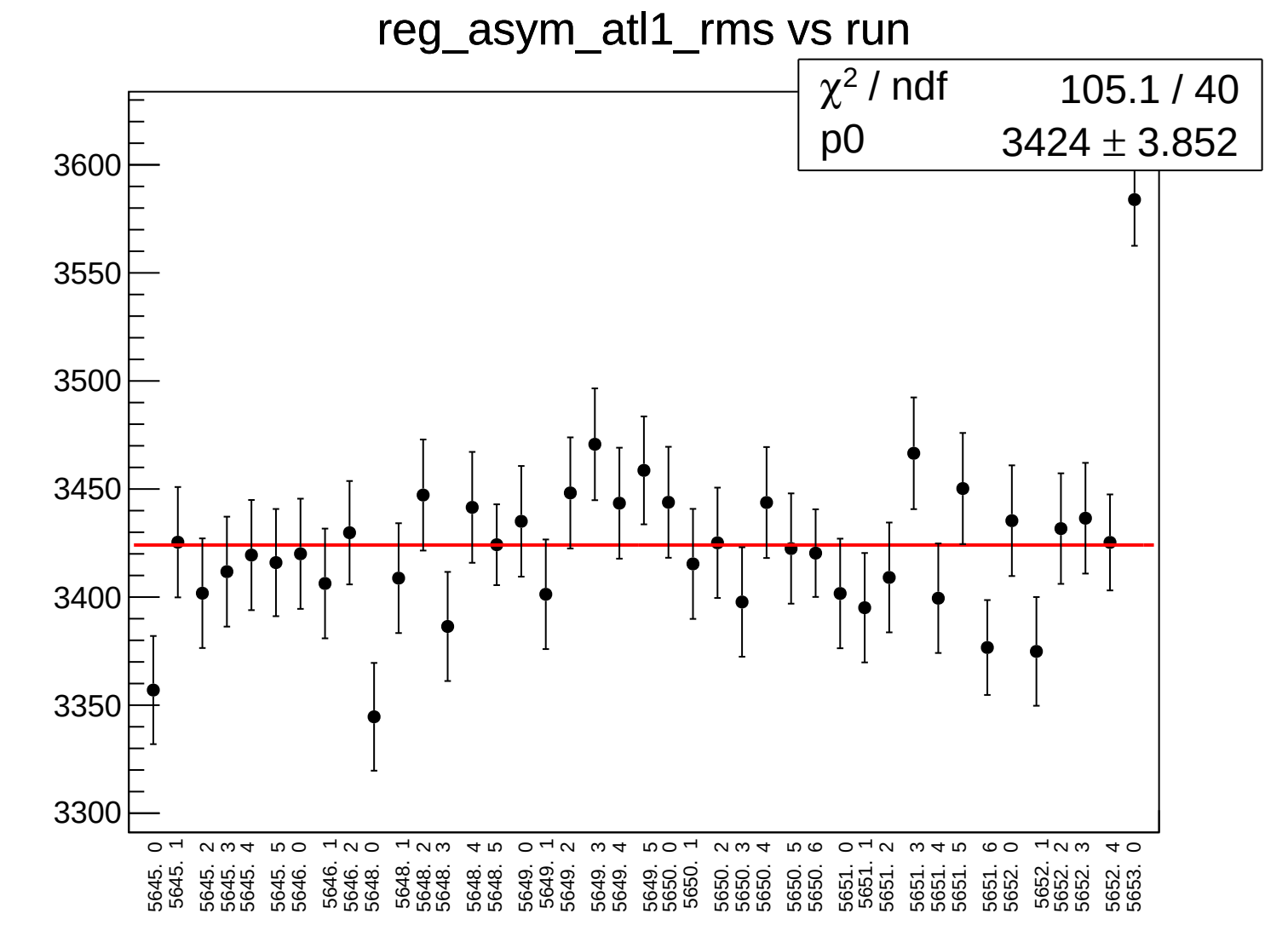

asym_us_agg_dd_mean vs run
χ² / ndf 38.06 / 40
p0 −3099 ± 2135
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −290.9
Std Dev 0
2
1
0
−1
−2
−3

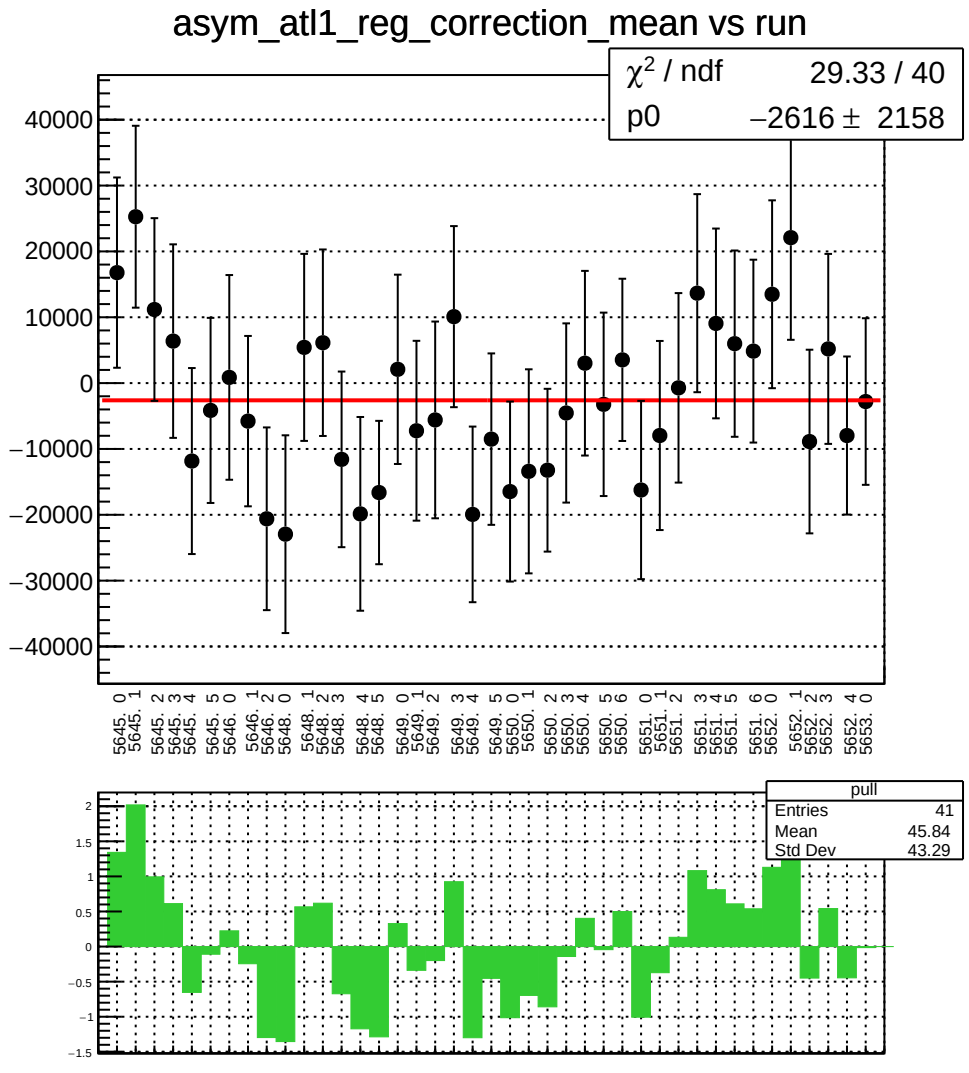

pull1D
Entries 41
Mean 0.006265
Std Dev 0.9634
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

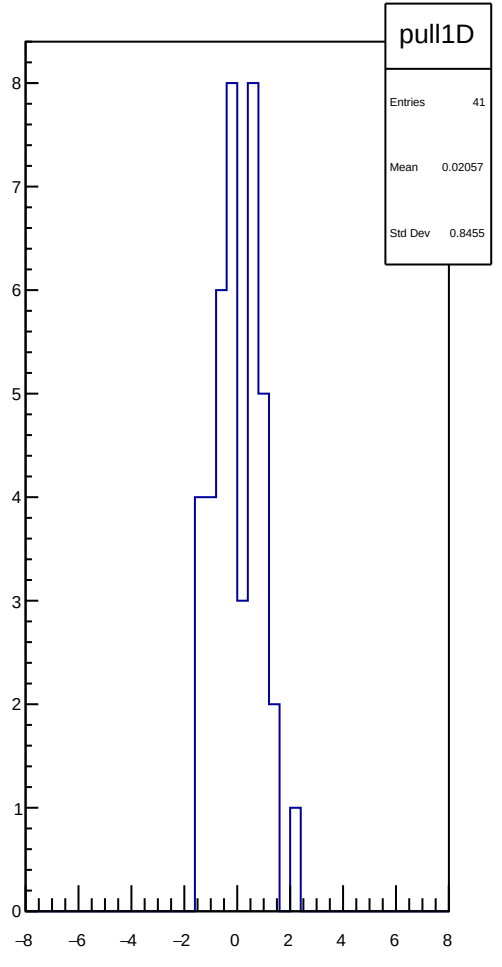

asym_us_agg_dd_rms vs run
χ² / ndf 1047 / 40
p0 1341 ± 1.51
1500
1450
1400
1350
1300
1250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

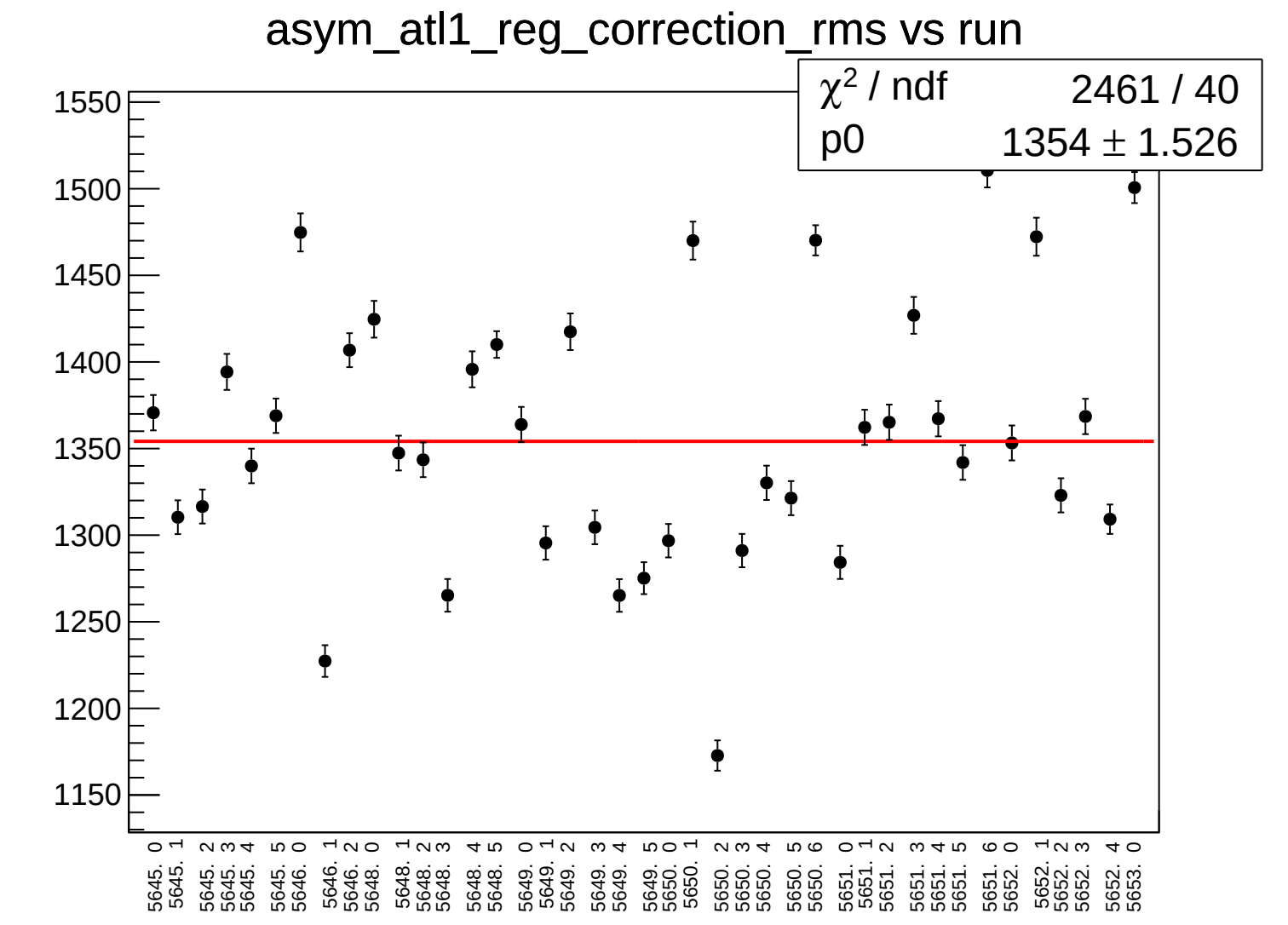

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 36.35 / 40
p0 −3402 ± 5447
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 382.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

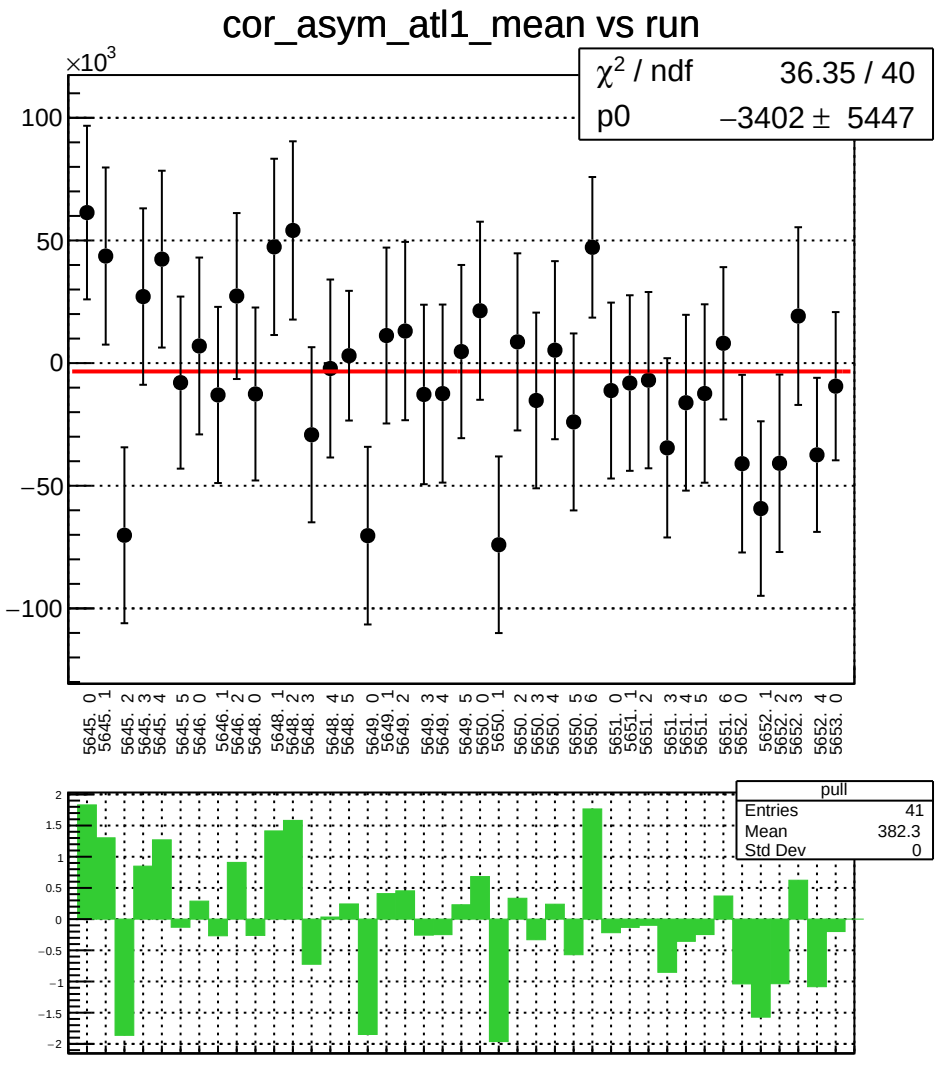

pull1D
Entries 41
Mean −0.01127
Std Dev 0.9415
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

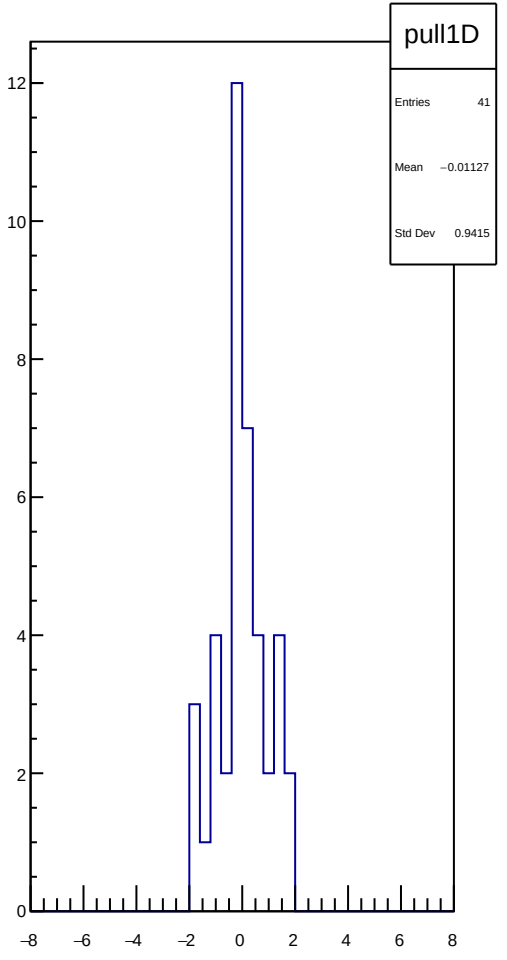

reg_asym_atl1_rms vs run
χ² / ndf 105.1 / 40
p0 3424 ± 3.852
3600
3550
3500
3450
3400
3350
3300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

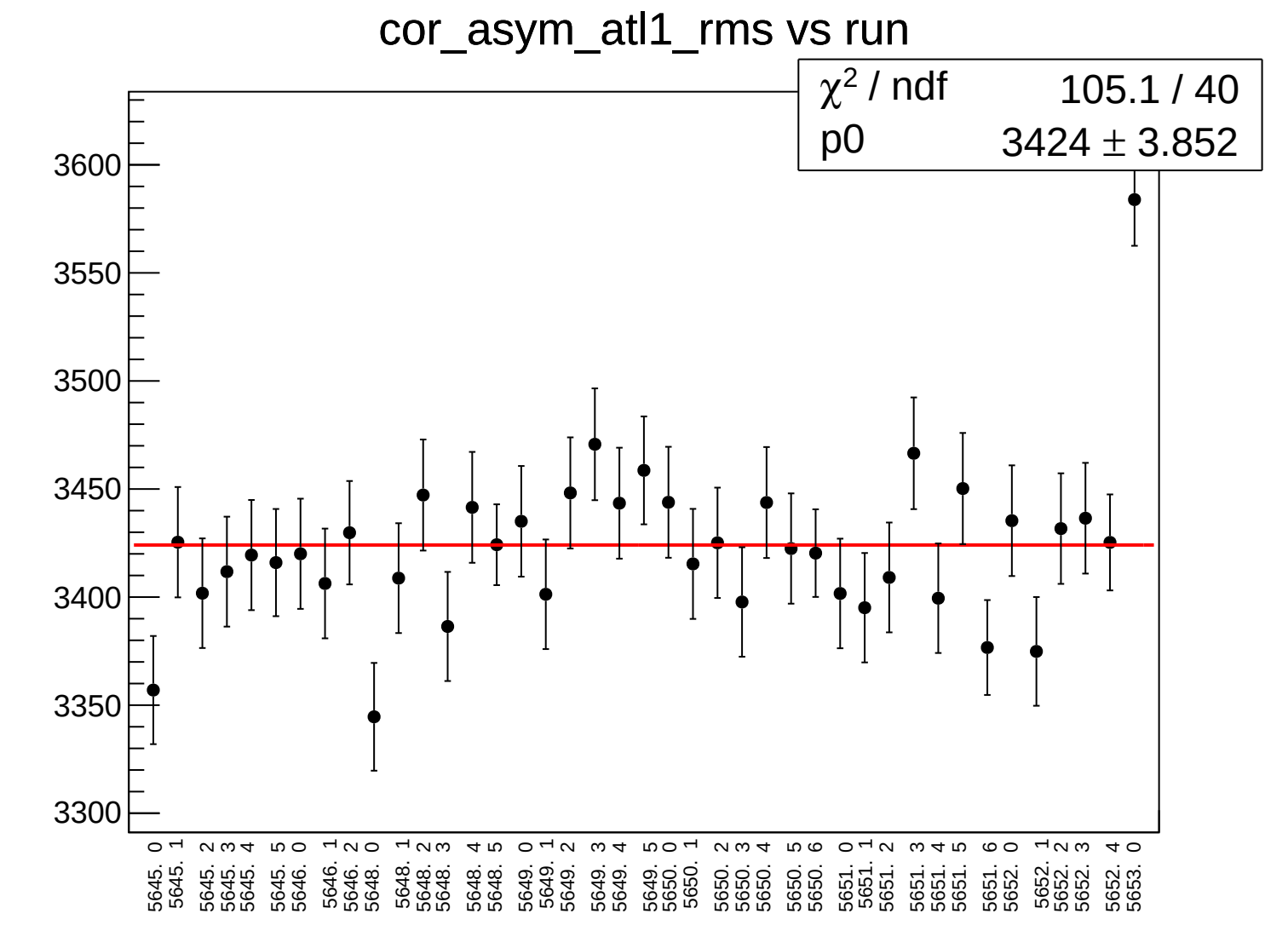

asym_atl1_reg_correction_mean vs run
χ² / ndf 29.33 / 40
p0 −2616 ± 2158
pull
Entries 41
Mean 45.84
Std Dev 43.29

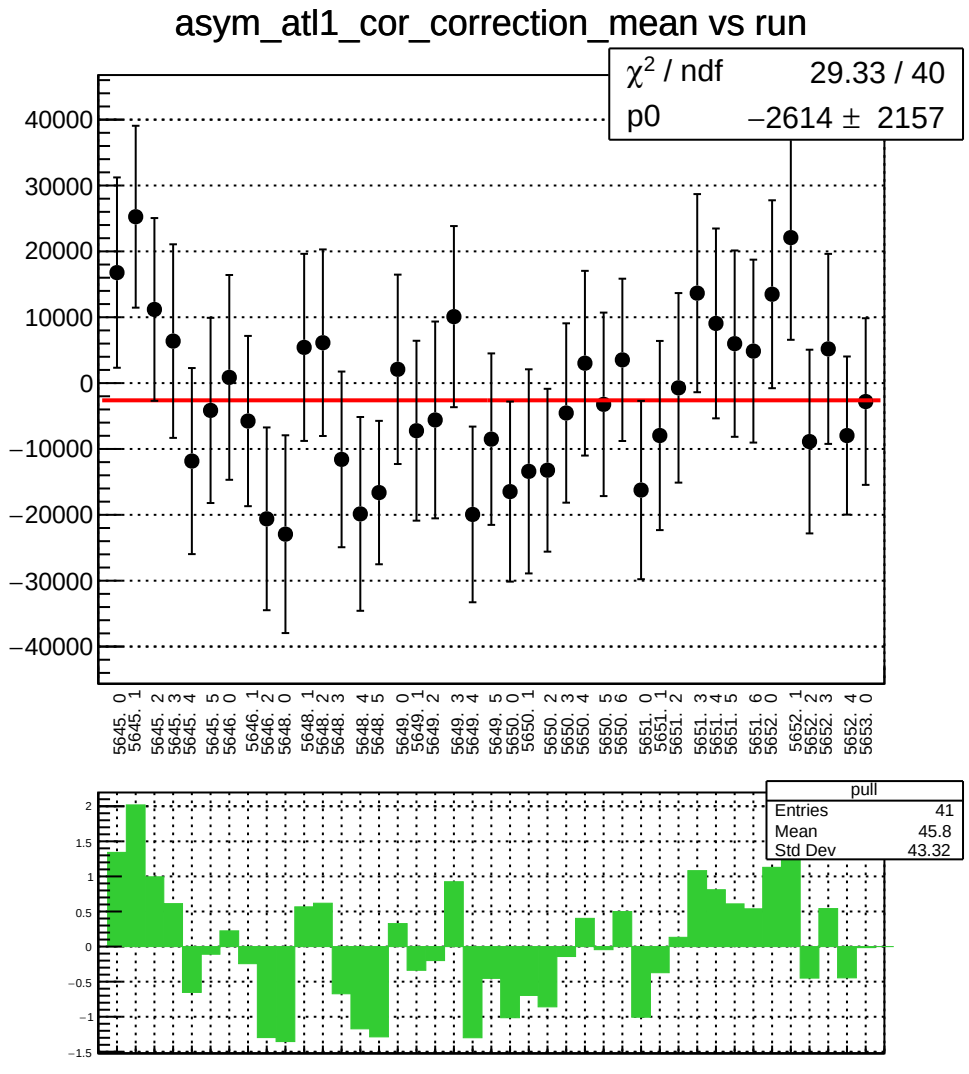

pull1D
Entries 41
Mean 0.02057
Std Dev 0.8455

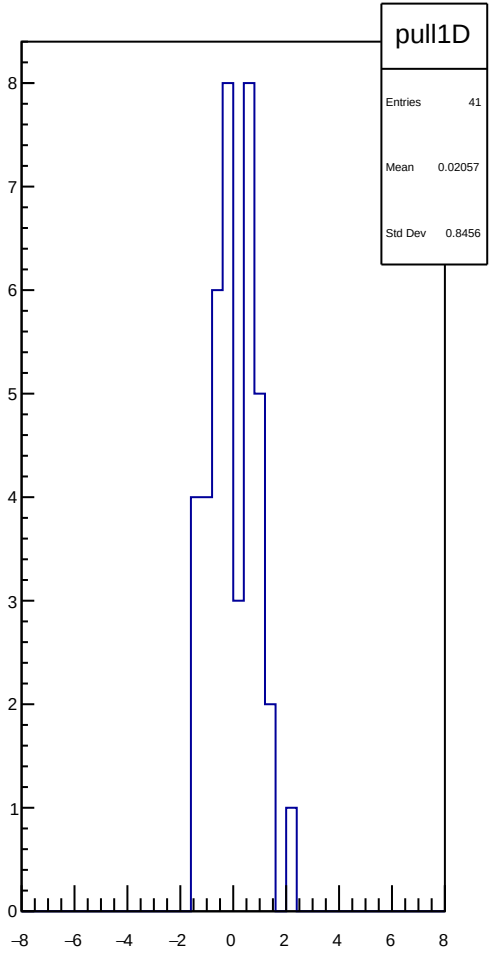

asym_atl1_reg_correction_rms vs run
χ² / ndf 2461 / 40
p0 1354 ± 1.526
1550
1500
1450
1400
1350
1300
1250
1200
1150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

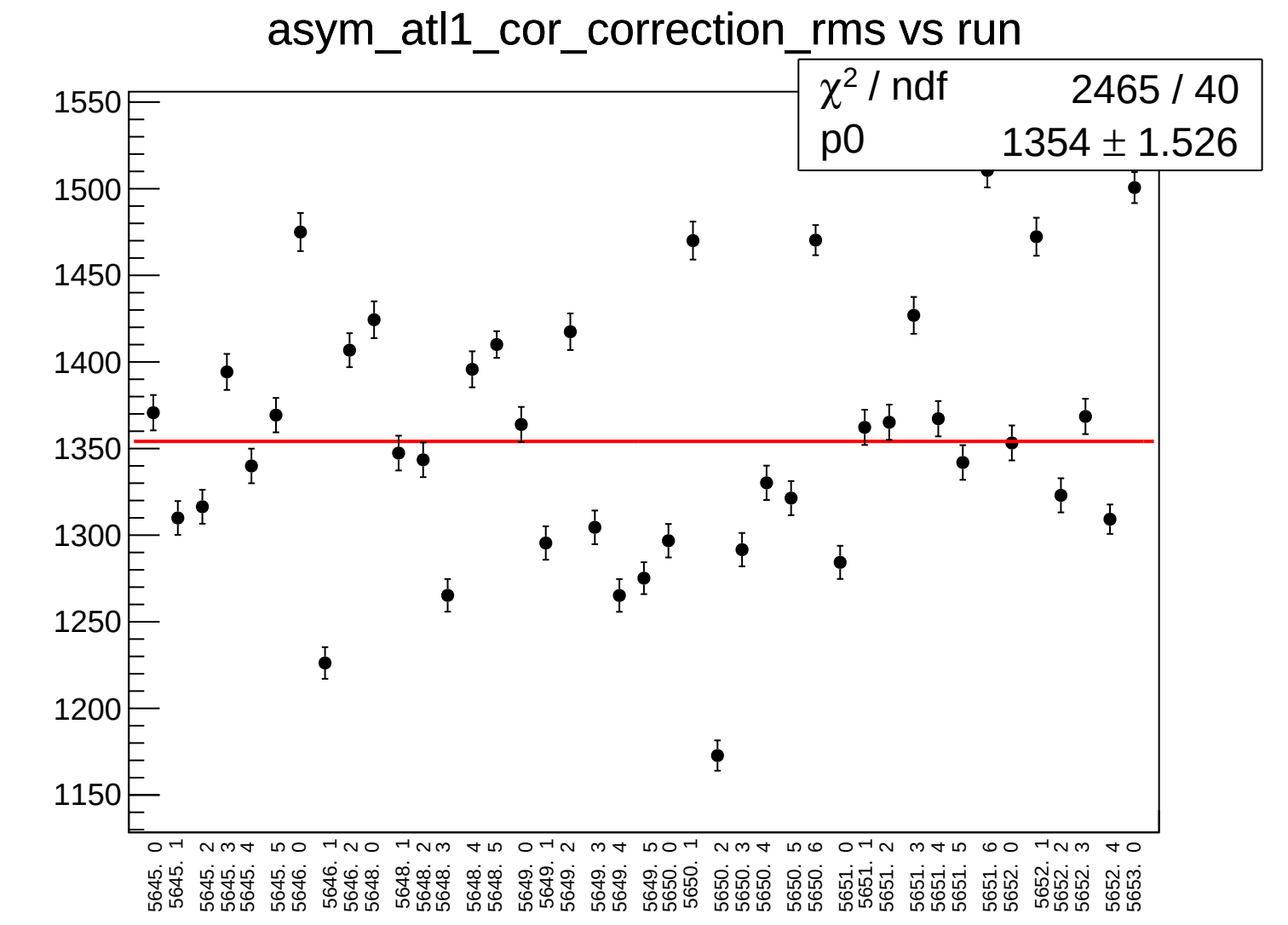

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 36.35 / 40
p0 −3402 ± 5447
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 382.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

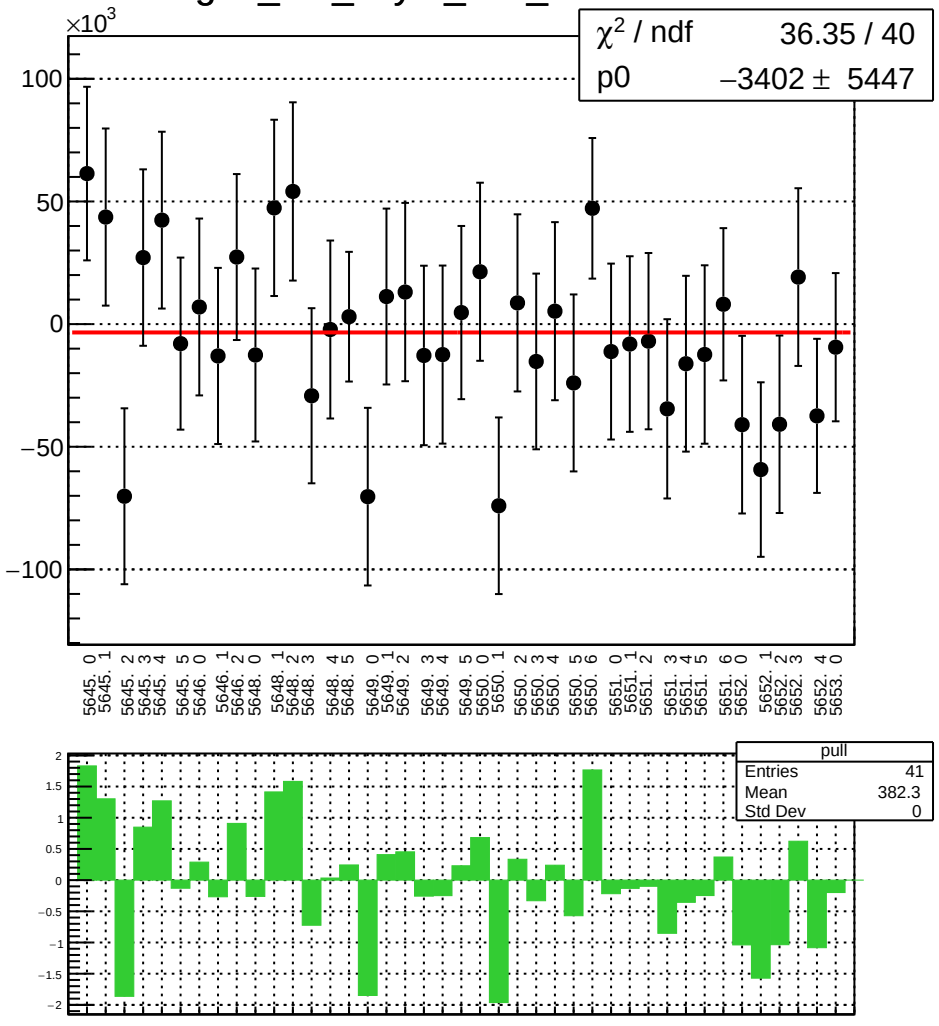

pull1D
Entries 41
Mean −0.01127
Std Dev 0.9415
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

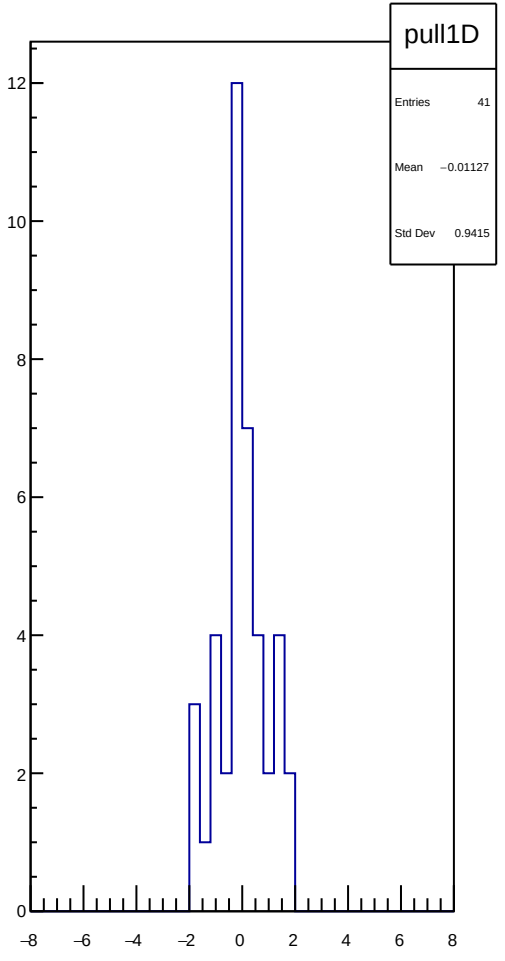

cor_asym_atl1_rms vs run
χ² / ndf 105.1 / 40
p0 3424 ± 3.852
3600
3550
3500
3450
3400
3350
3300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

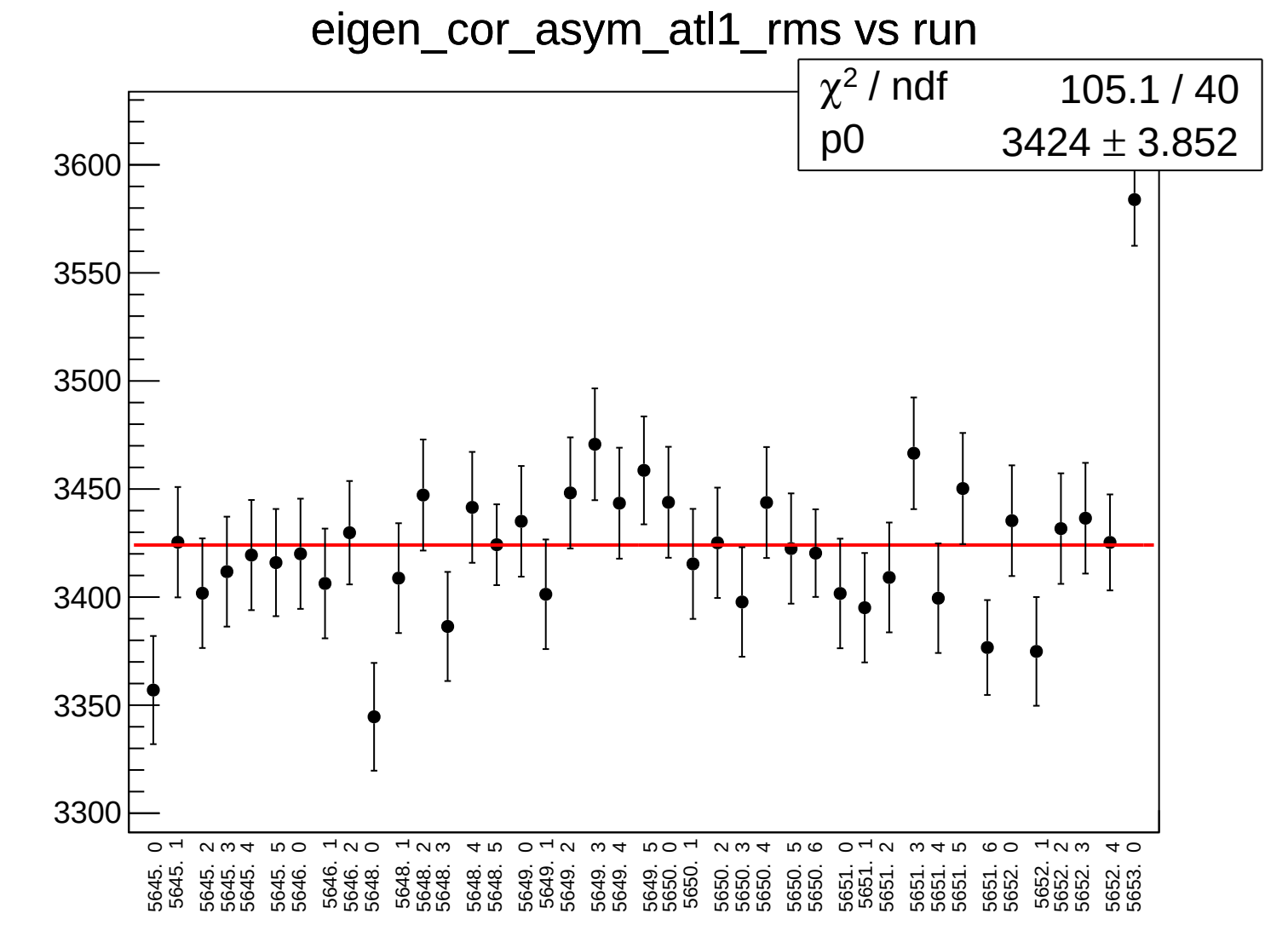

asym_atl1_cor_correction_mean vs run
χ² / ndf 29.33 / 40
p0 −2614 ± 2157
pull
Entries 41
Mean 45.8
Std Dev 43.32

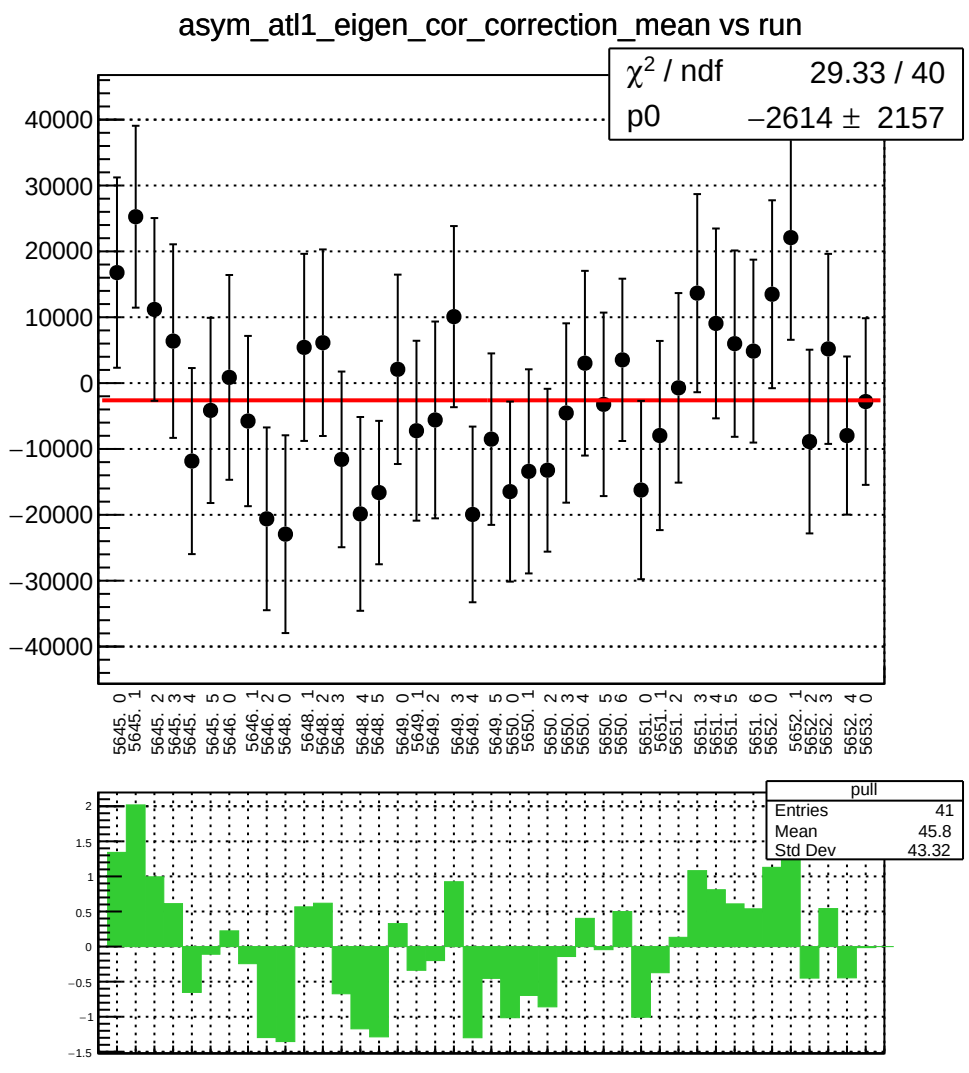

pull1D
Entries 41
Mean 0.02057
Std Dev 0.8456

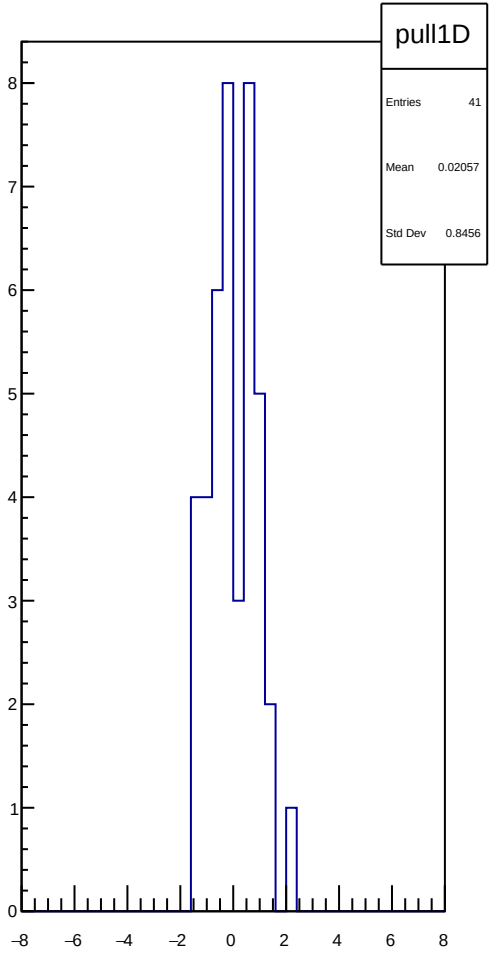

asym_atl1_cor_correction_rms vs run
χ² / ndf 2465 / 40
p0 1354 ± 1.526
1550
1500
1450
1400
1350
1300
1250
1200
1150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

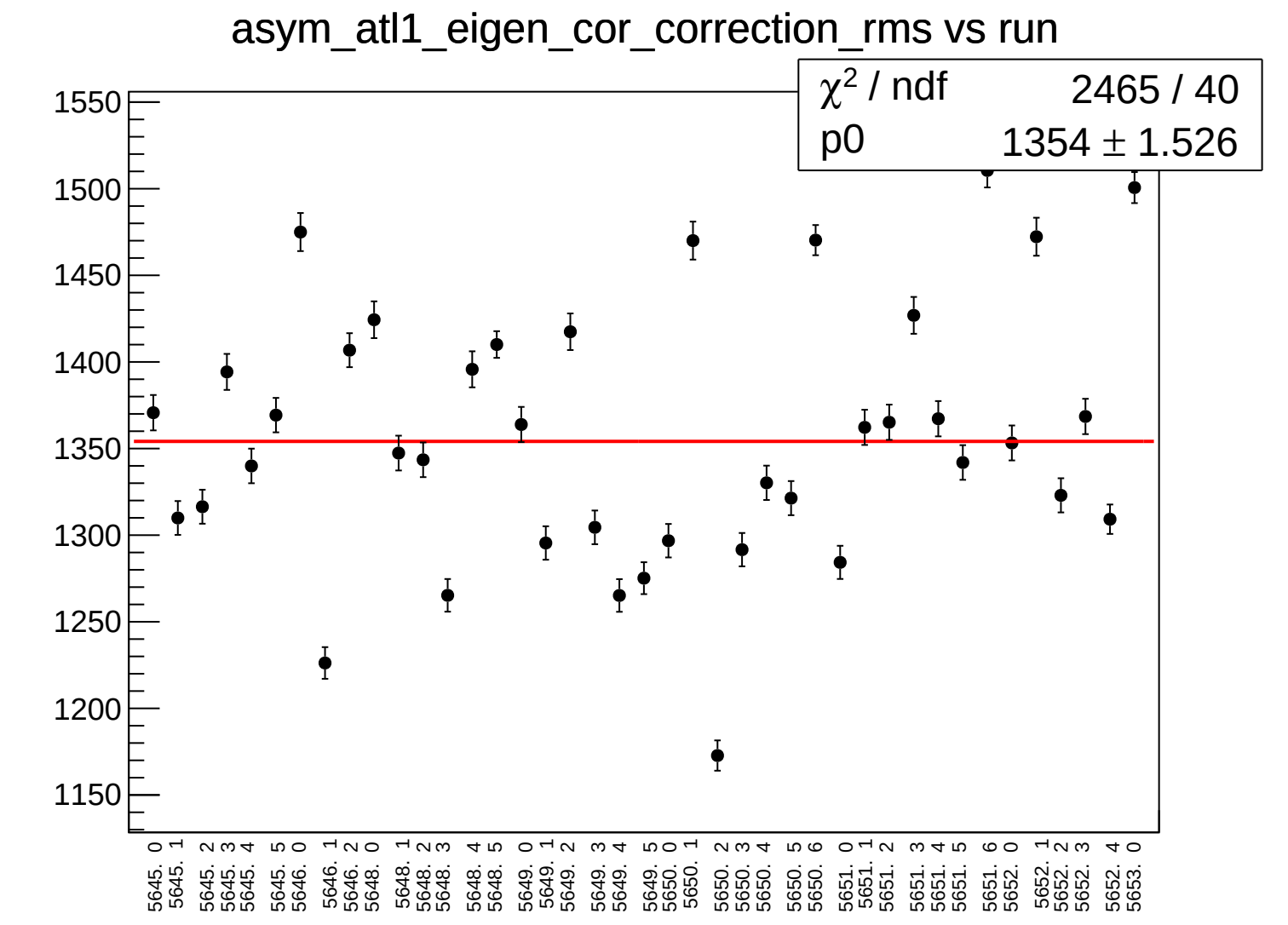

eigen_cor_asym_atl1_mean vs run
χ² / ndf 36.35 / 40
p0 −3402 ± 5447
×10³
pull
Entries 41
Mean 382.3
Std Dev 0

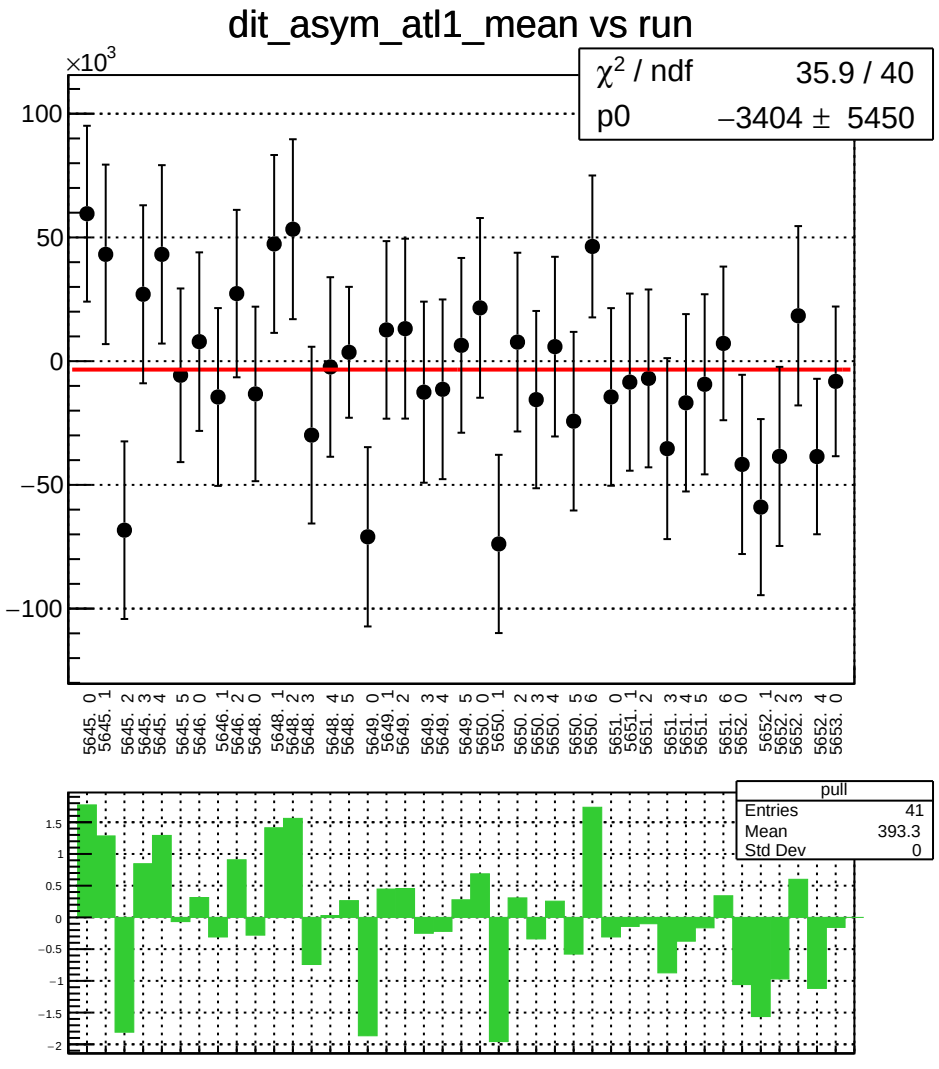

pull1D
Entries 41
Mean −0.01127
Std Dev 0.9415

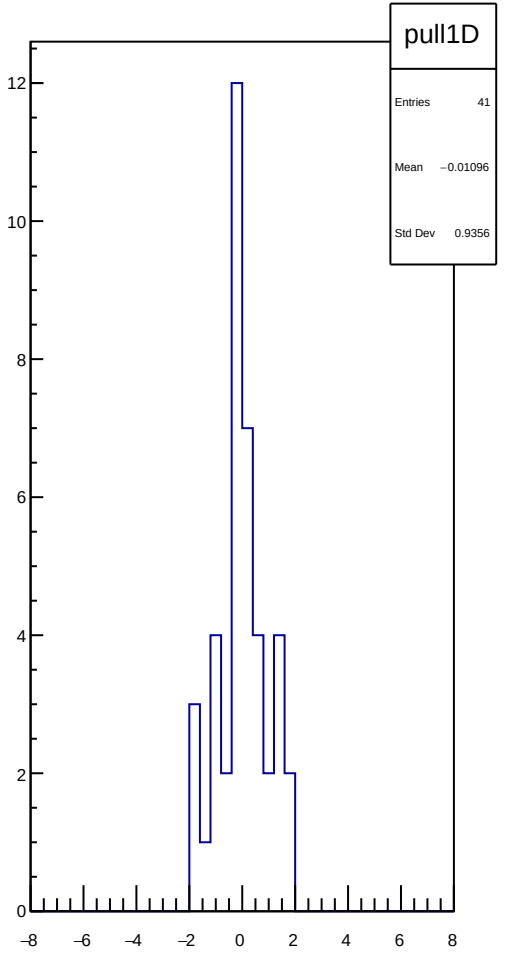

eigen_cor_asym_atl1_rms vs run
χ² / ndf 105.1 / 40
p0 3424 ± 3.852
3600
3550
3500
3450
3400
3350
3300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

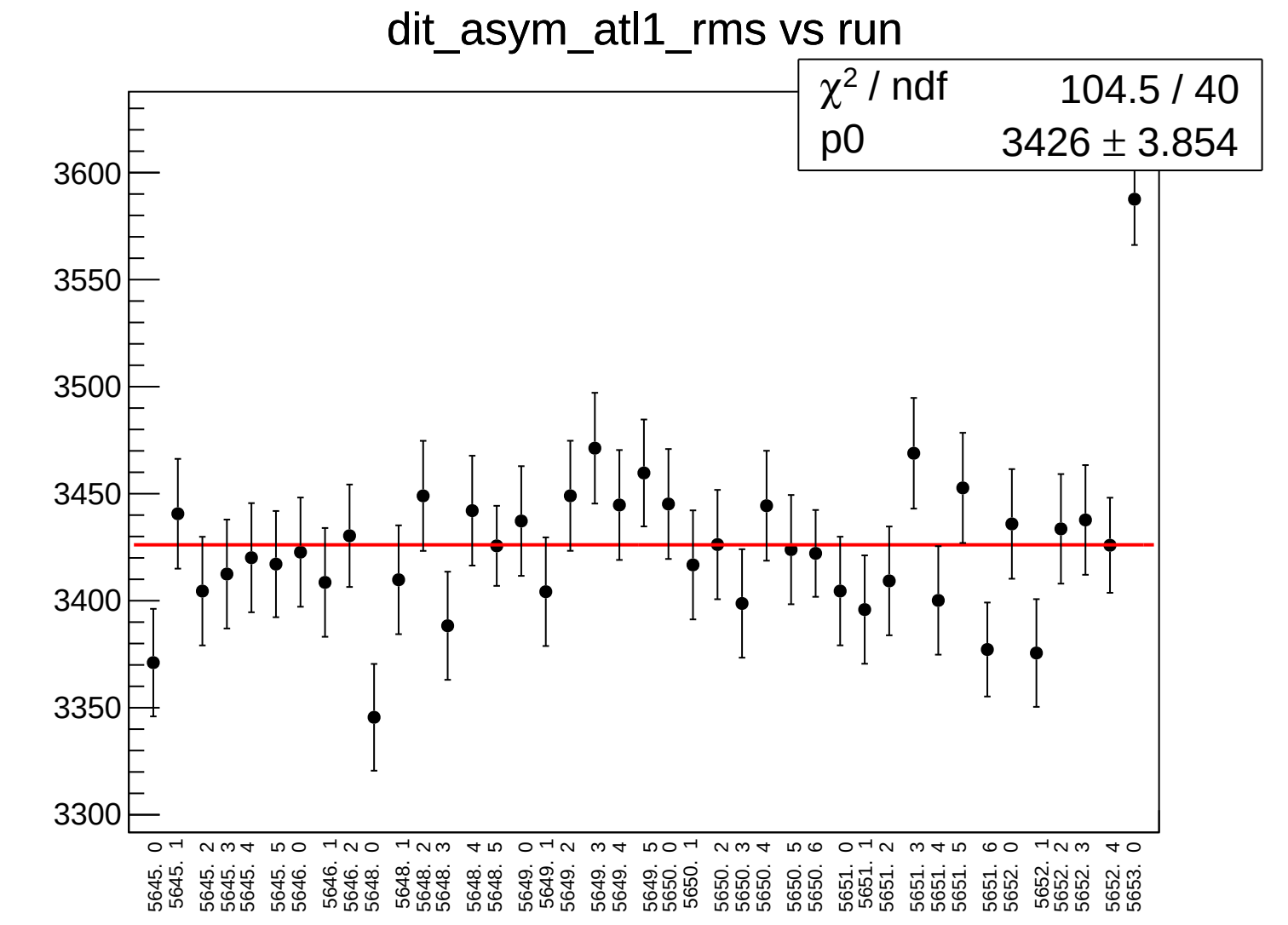

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 29.33 / 40
p0 −2614 ± 2157
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 45.8
Std Dev 43.32
2
1.5
1
0.5
0
−0.5
−1
−1.5

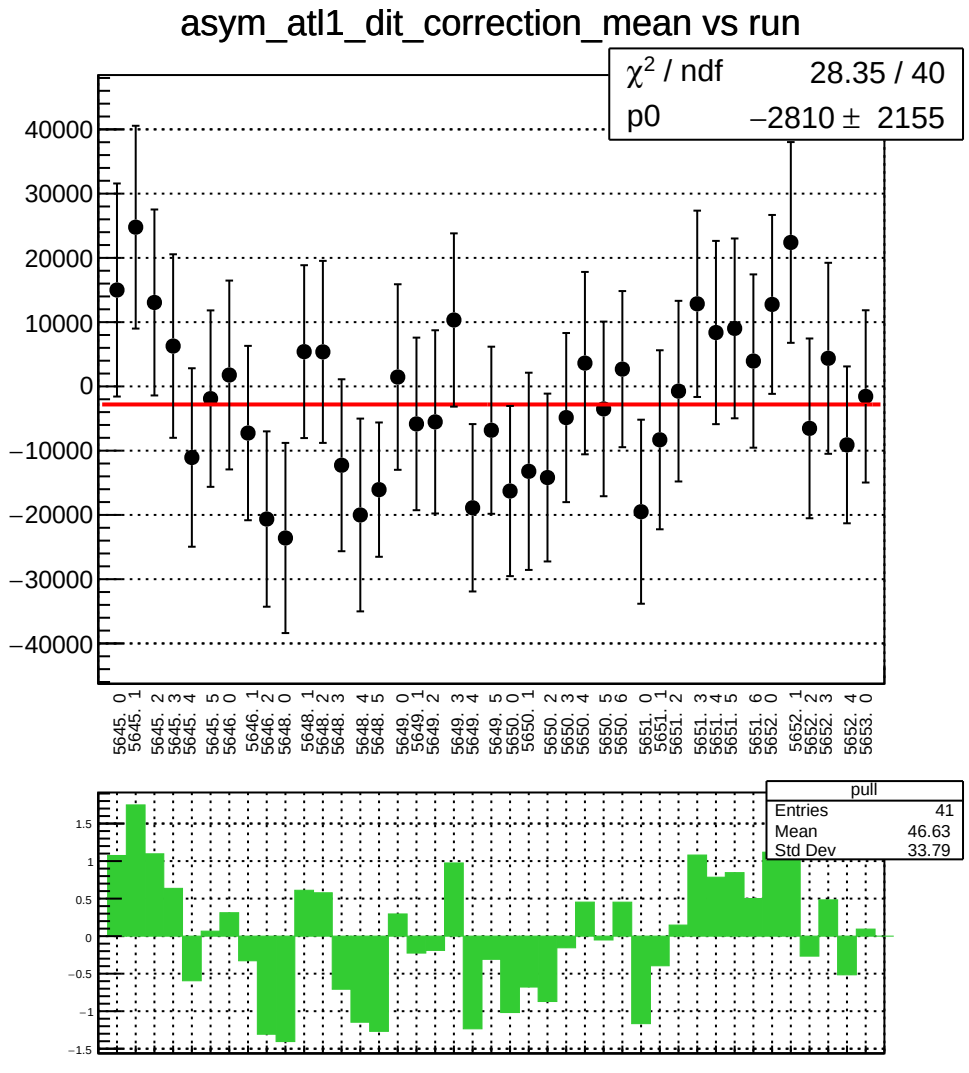

pull1D
Entries 41
Mean 0.02057
Std Dev 0.8456
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

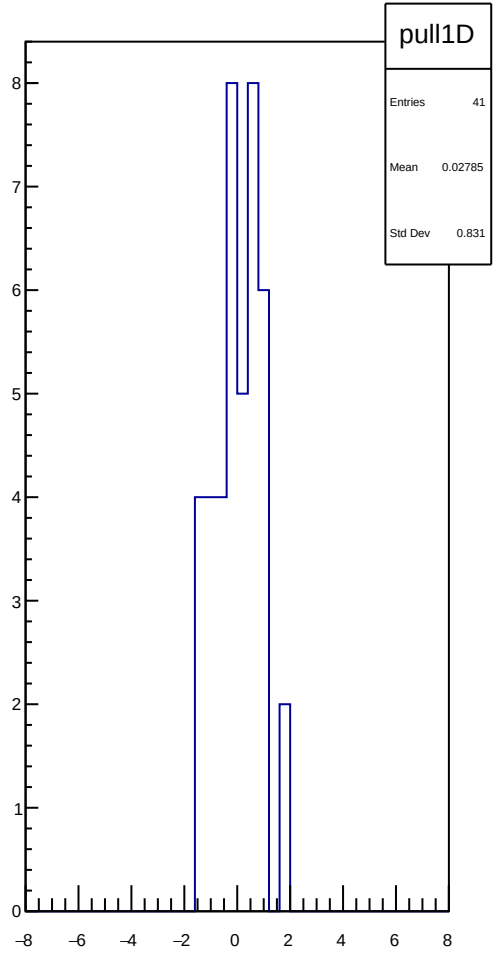

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2465 / 40
p0 1354 ± 1.526
1550
1500
1450
1400
1350
1300
1250
1200
1150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

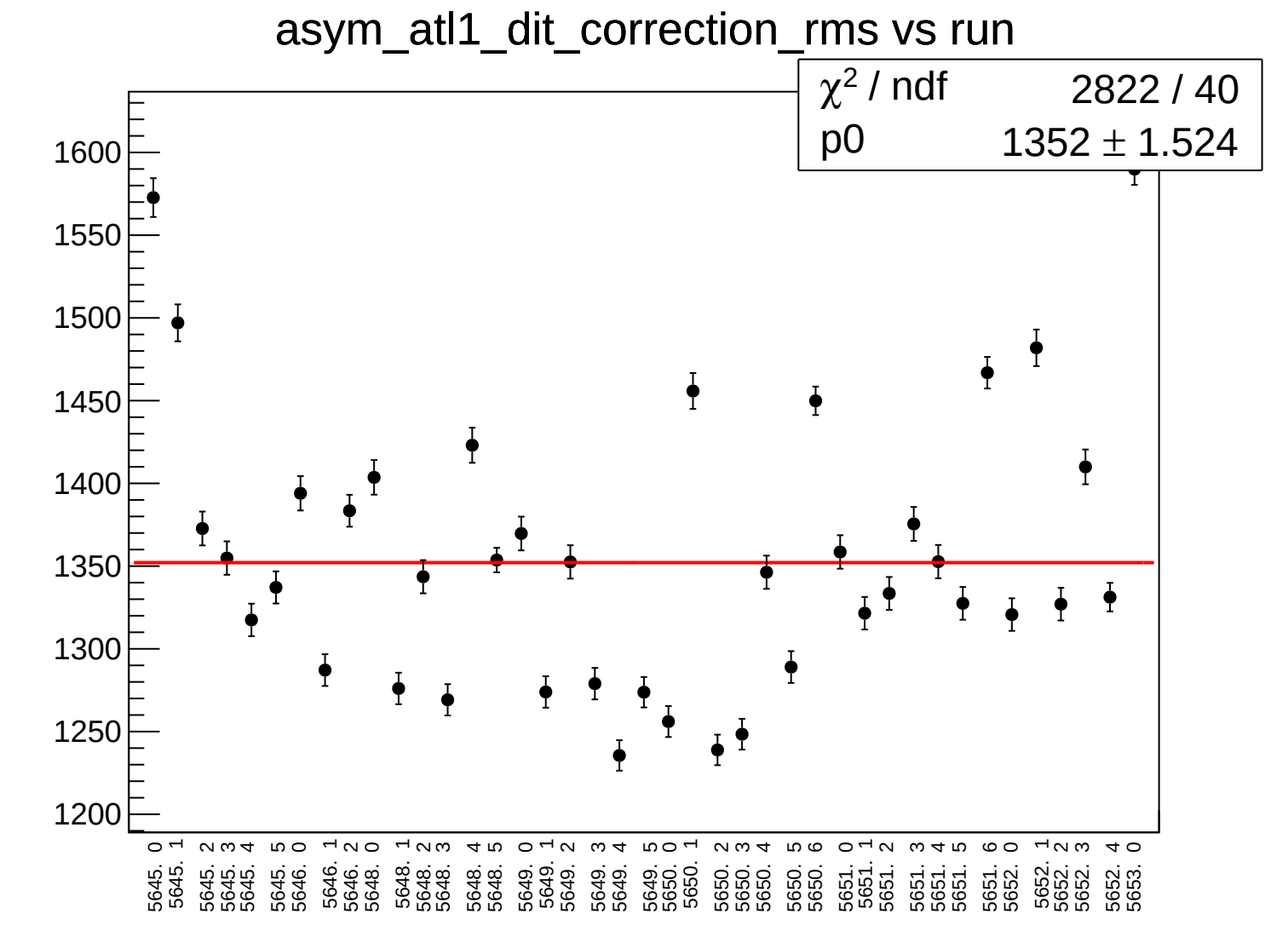

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 35.9 / 40
p0 −3404 ± 5450
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 393.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

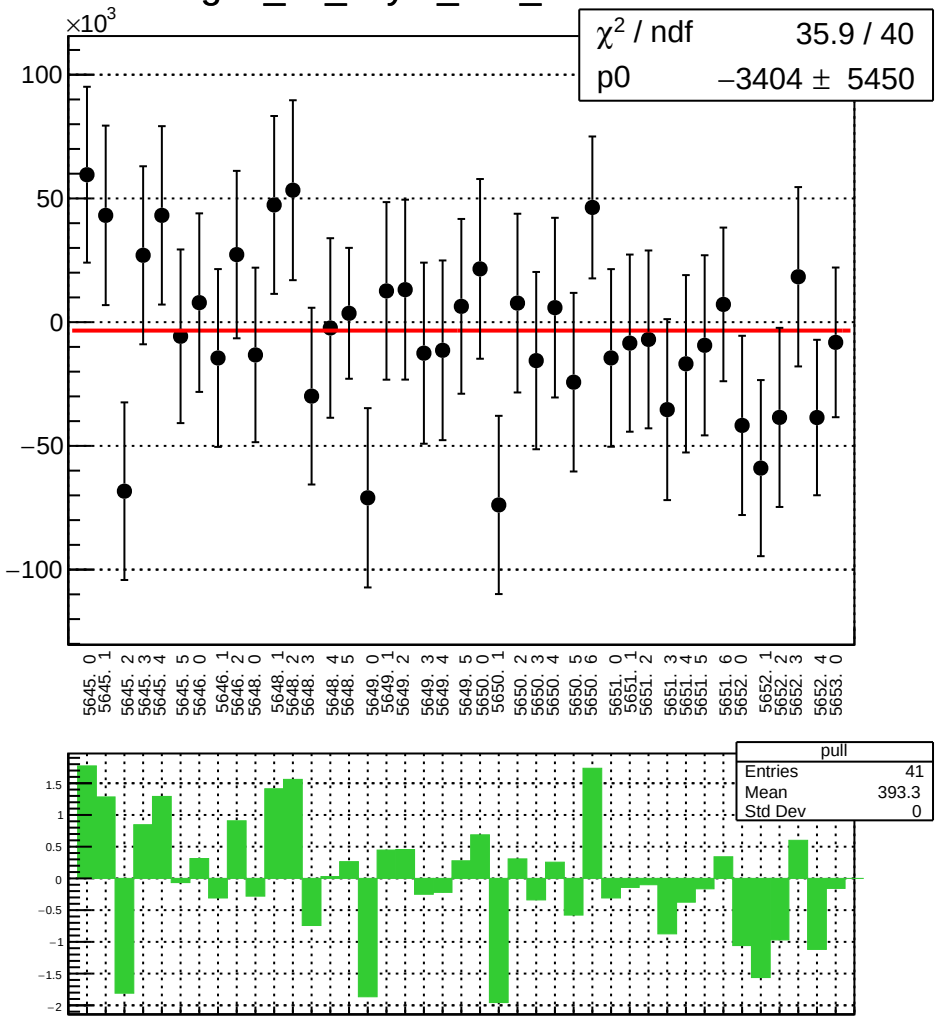

pull1D
Entries 41
Mean −0.01096
Std Dev 0.9356
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

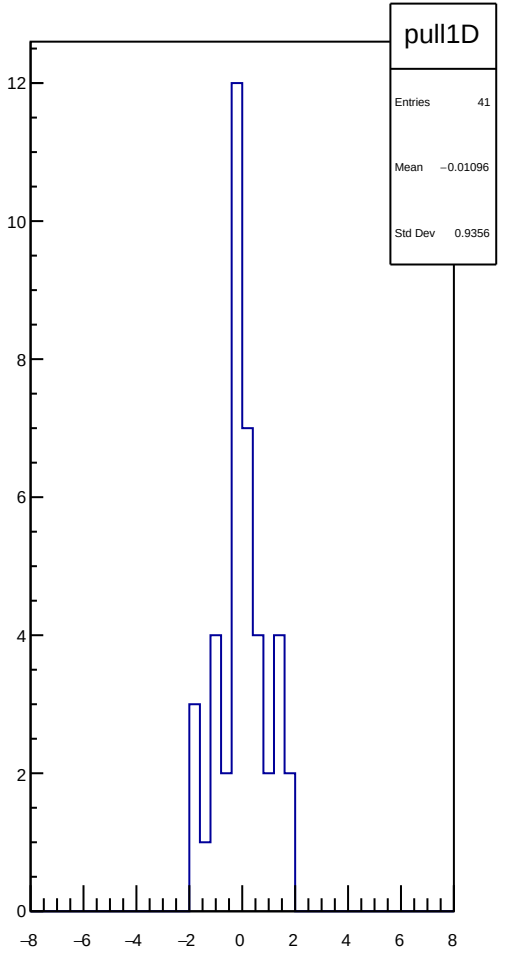

dit_asym_atl1_rms vs run
χ² / ndf 104.5 / 40
p0 3426 ± 3.854
3600
3550
3500
3450
3400
3350
3300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

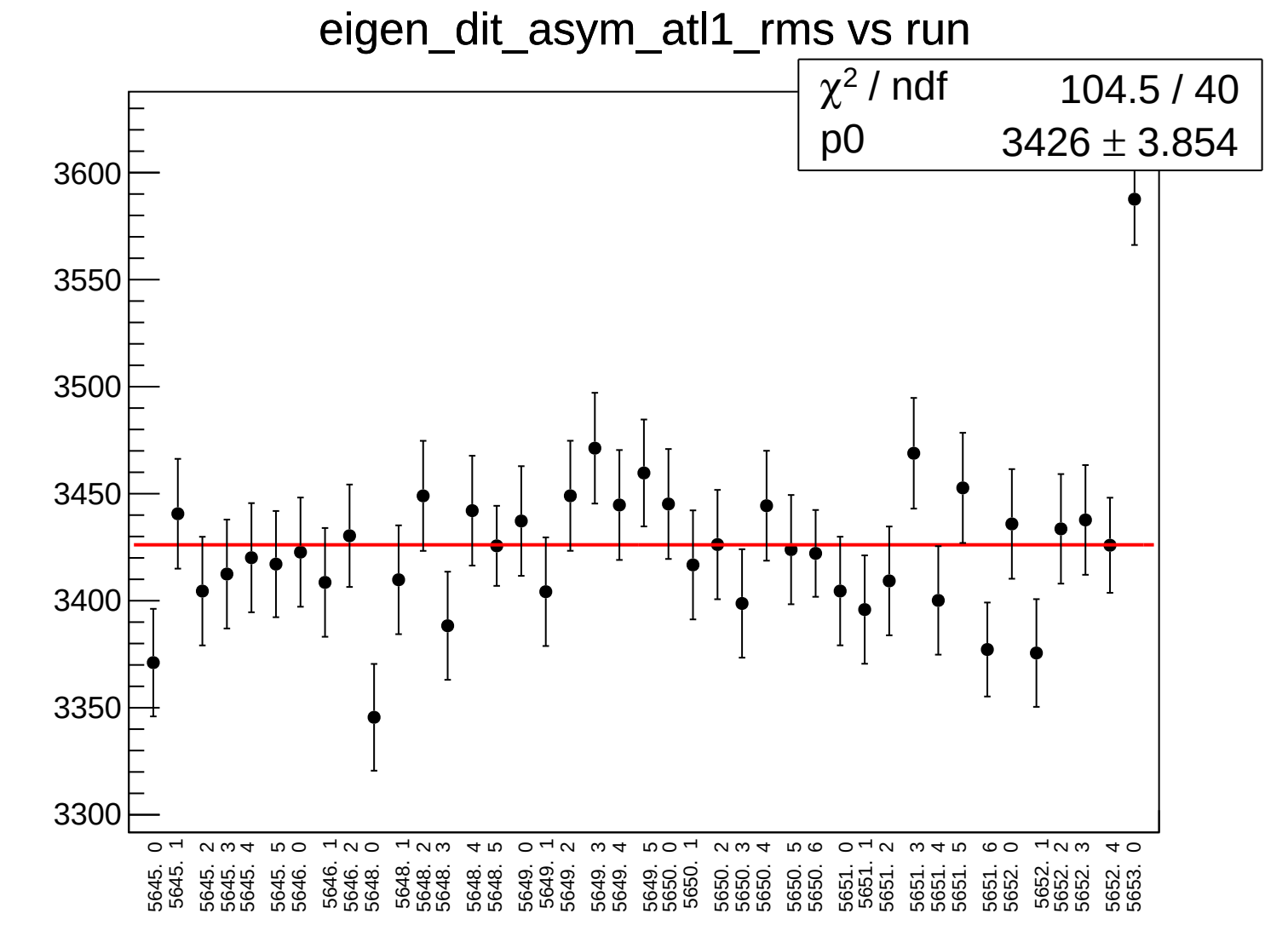

asym_atl1_dit_correction_mean vs run
χ² / ndf 28.35 / 40
p0 −2810 ± 2155
pull
Entries 41
Mean 46.63
Std Dev 33.79

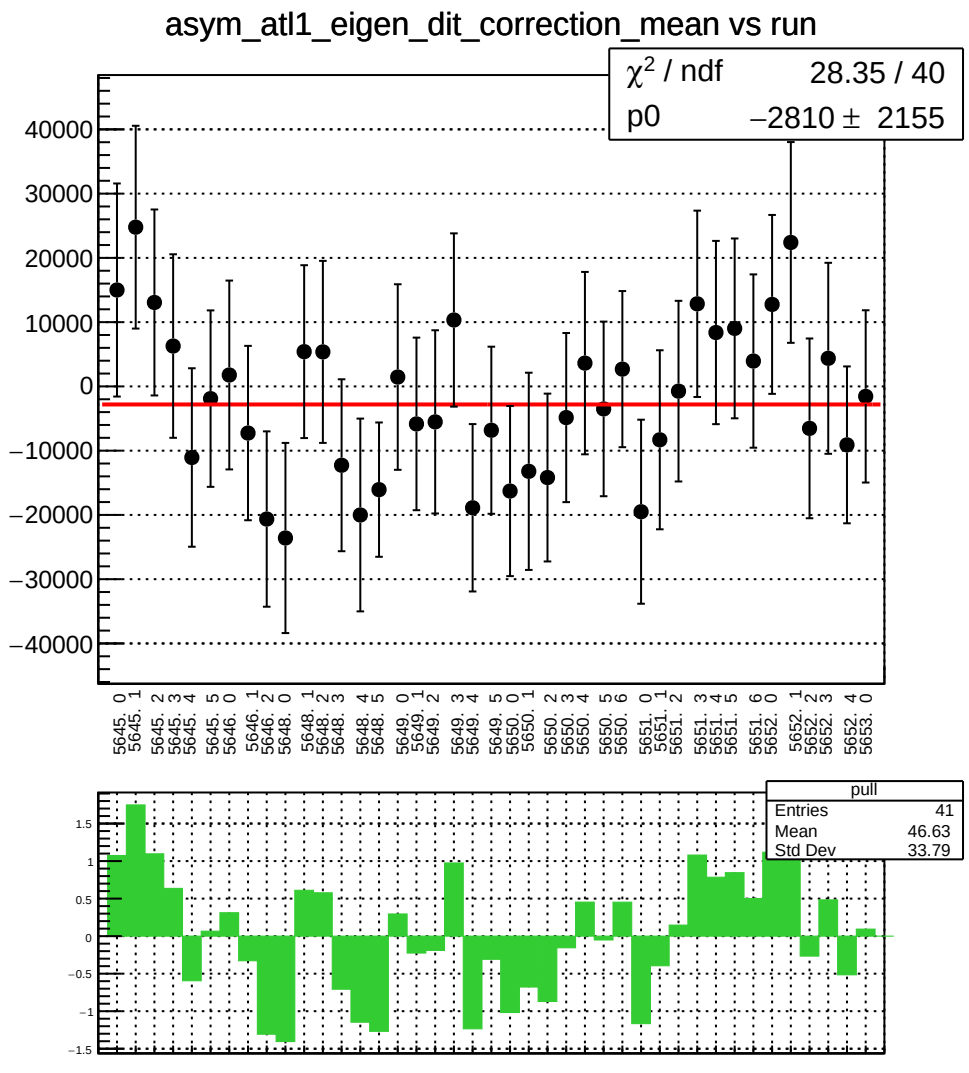

pull1D
Entries 41
Mean 0.02785
Std Dev 0.831

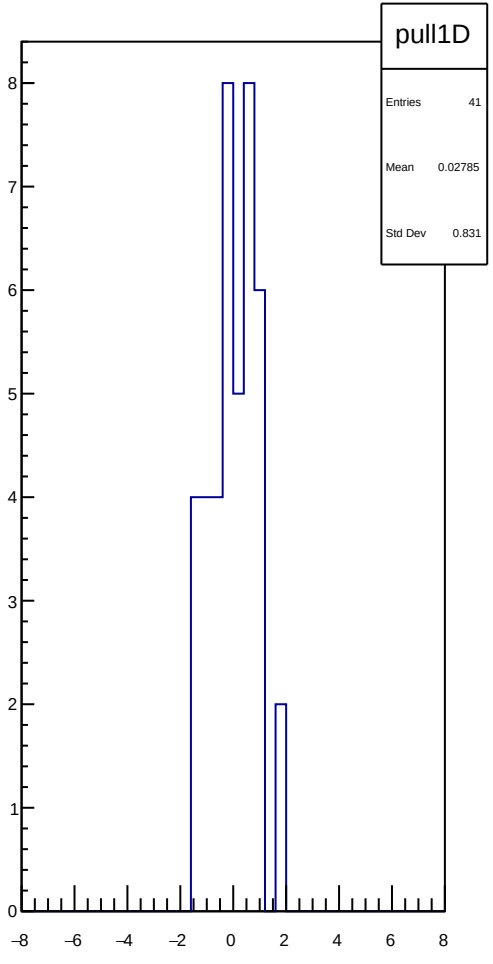

asym_atl1_dit_correction_rms vs run
χ² / ndf 2822 / 40
p0 1352 ± 1.524
1600
1550
1500
1450
1400
1350
1300
1250
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

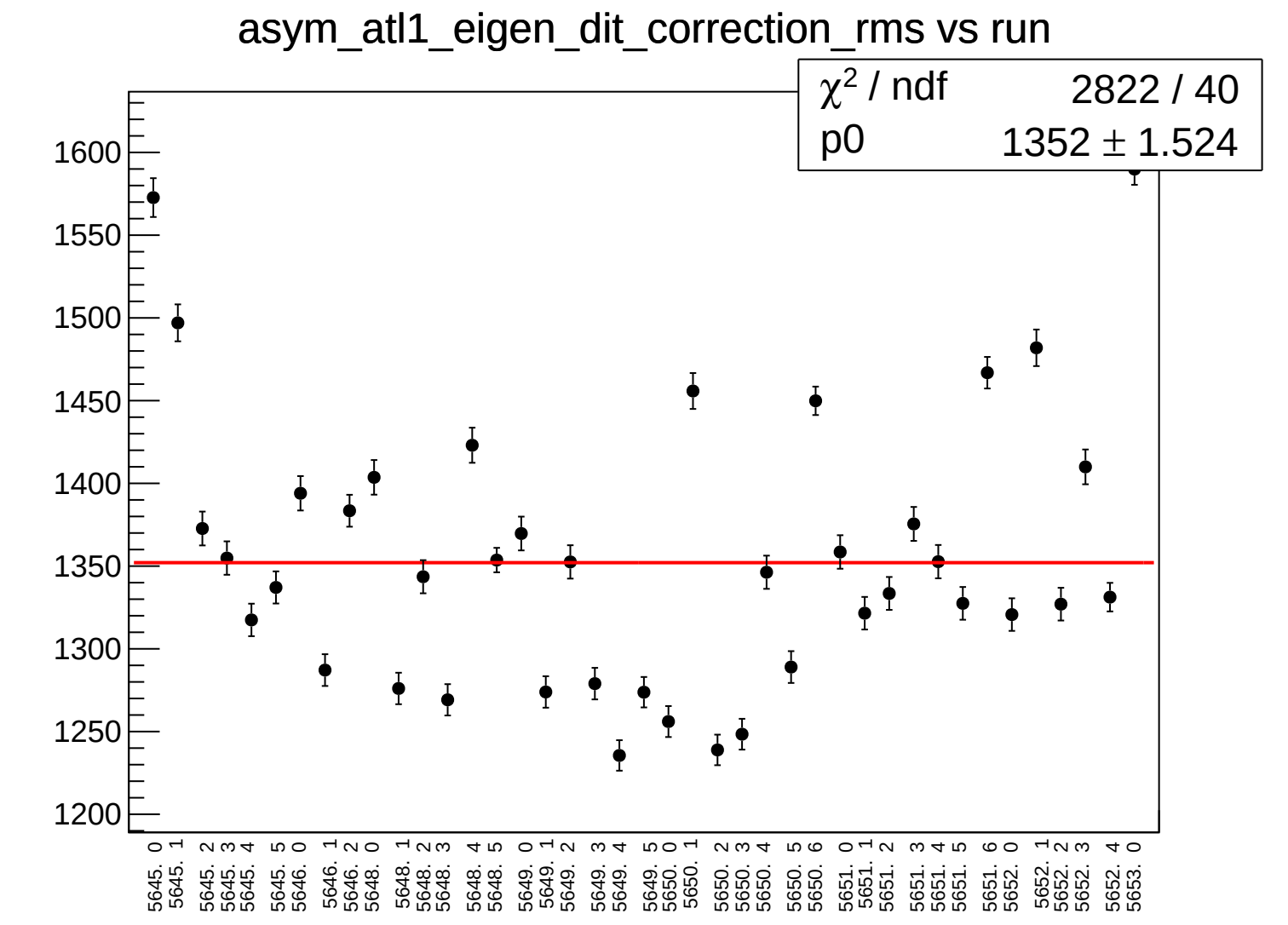

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 35.9 / 40
p0 −3404 ± 5450
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 393.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

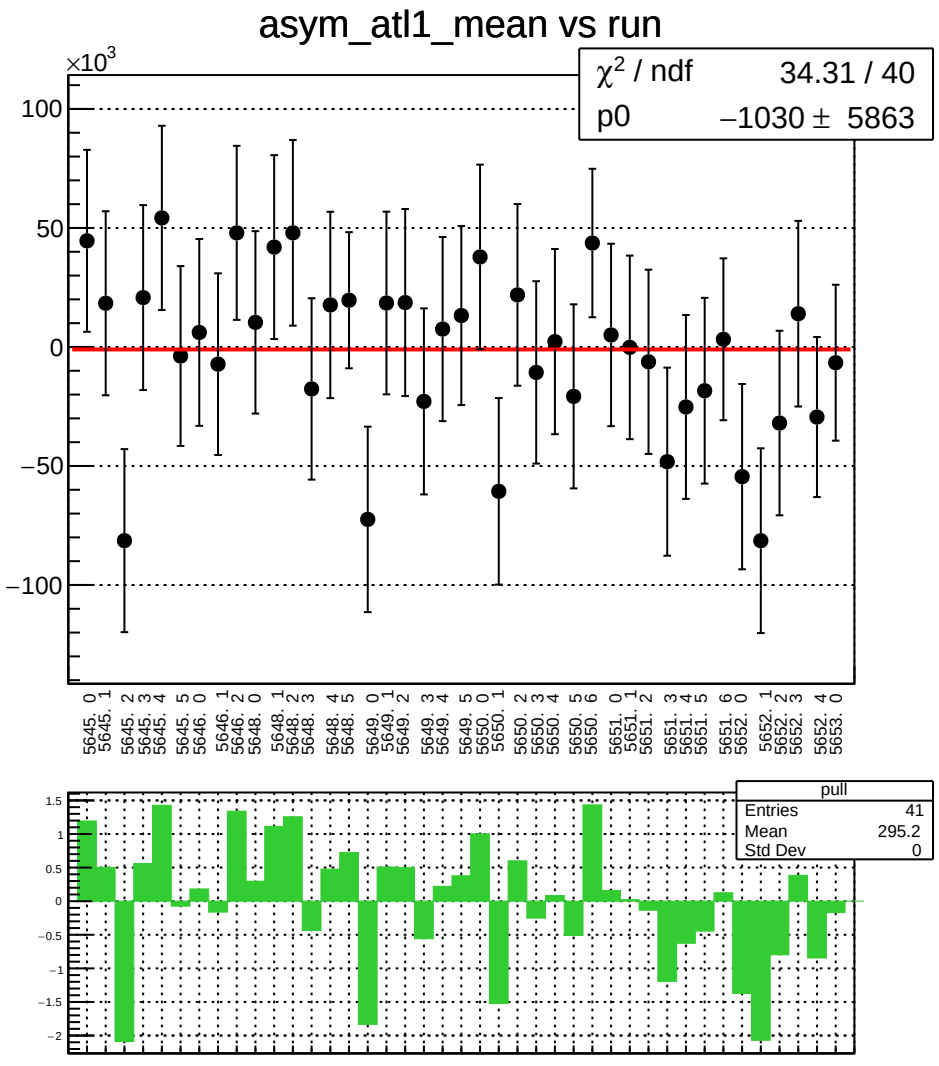

pull1D
Entries 41
Mean −0.01096
Std Dev 0.9356
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

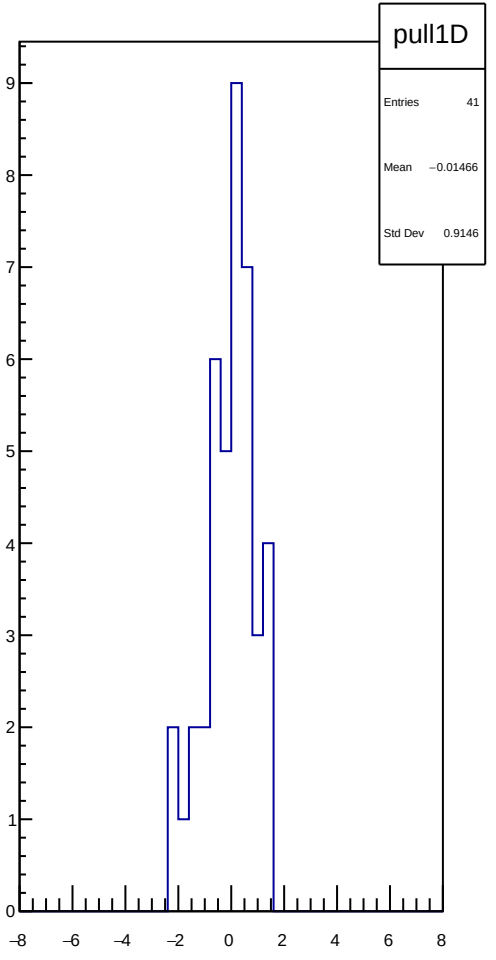

eigen_dit_asym_atl1_rms vs run
χ² / ndf 104.5 / 40
p0 3426 ± 3.854
3600
3550
3500
3450
3400
3350
3300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

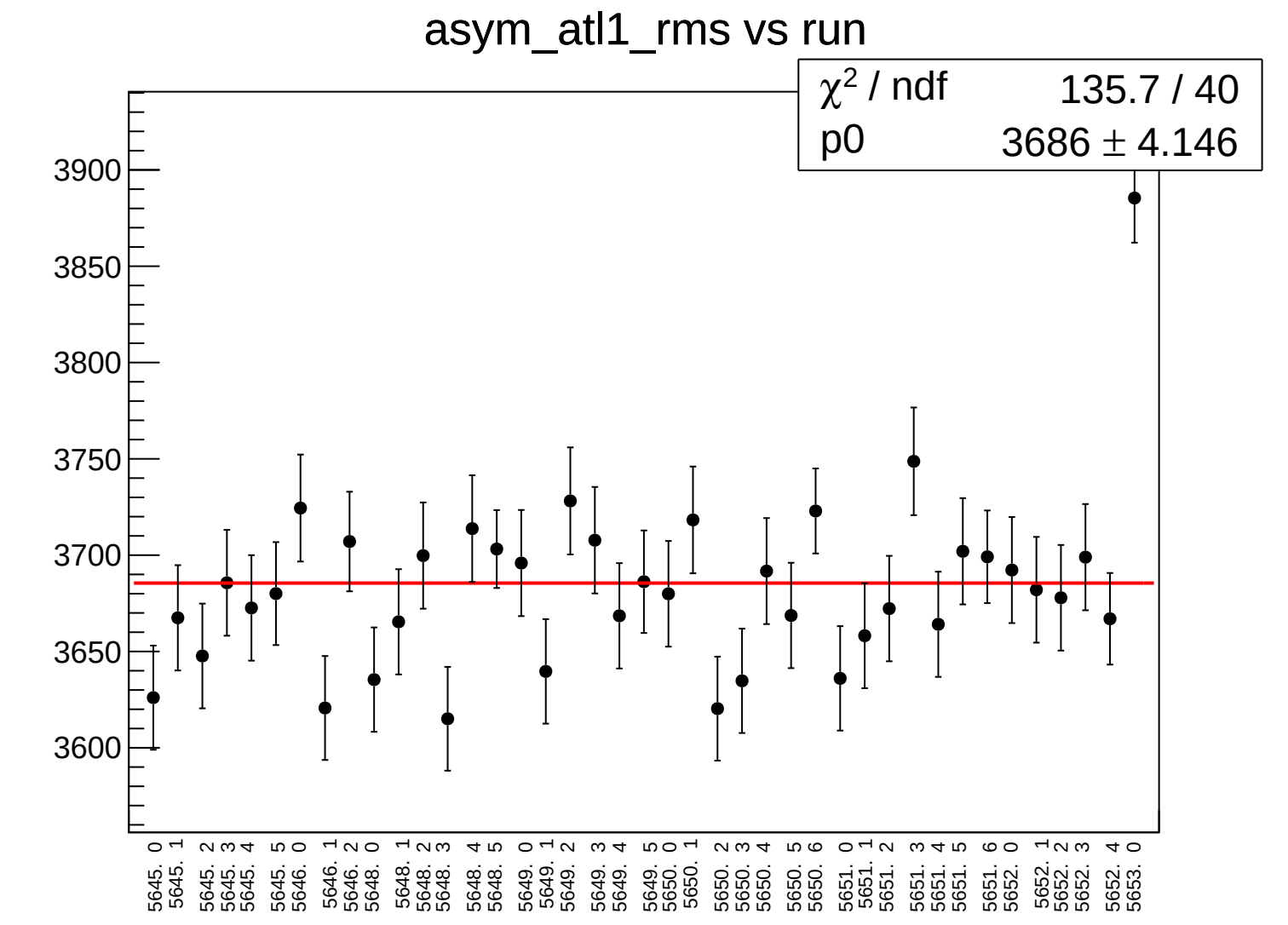

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 28.35 / 40
p0 −2810 ± 2155
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 46.63
Std Dev 33.79
1.5
1
0.5
0
−0.5
−1
−1.5

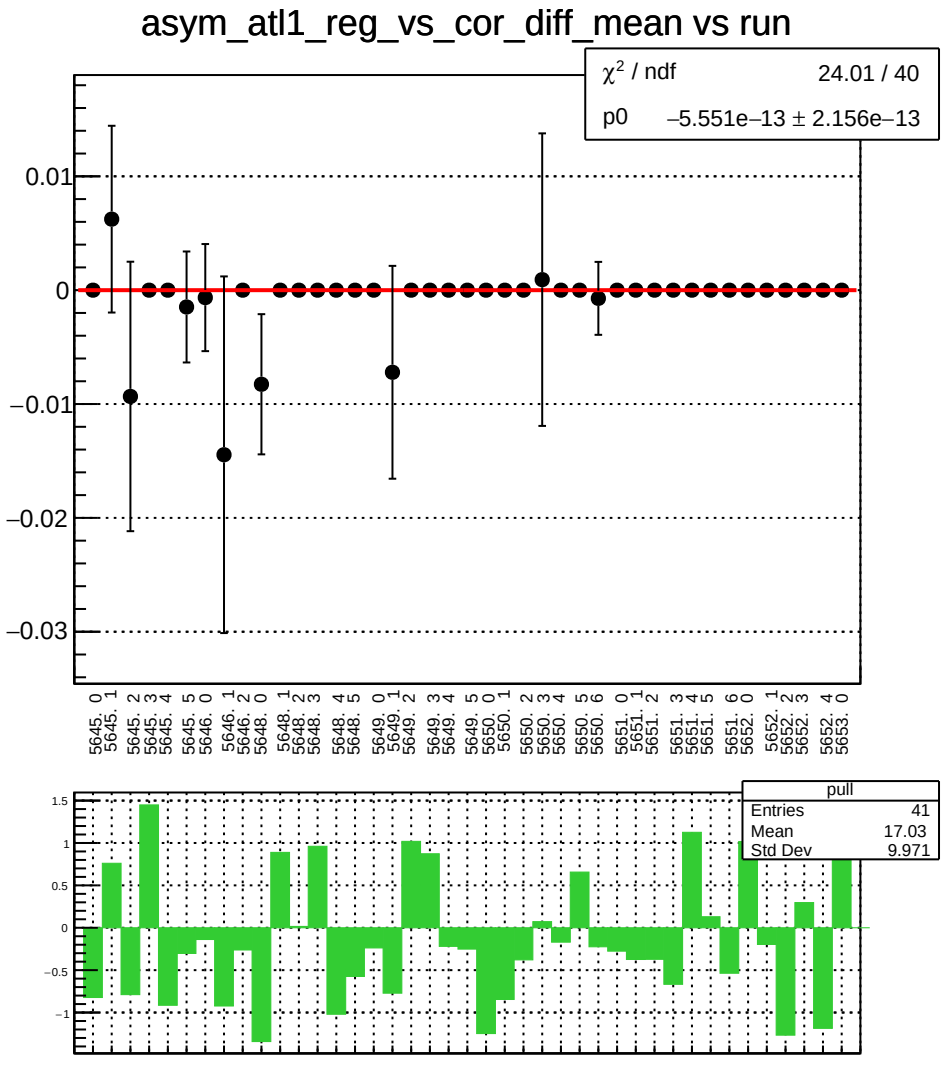

pull1D
Entries 41
Mean 0.02785
Std Dev 0.831
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

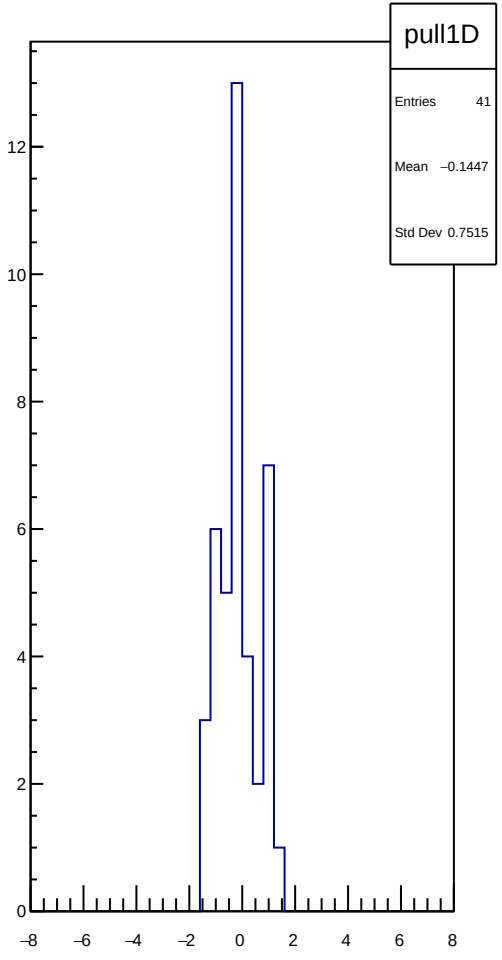

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2822 / 40
p0 1352 ± 1.524
1600
1550
1500
1450
1400
1350
1300
1250
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

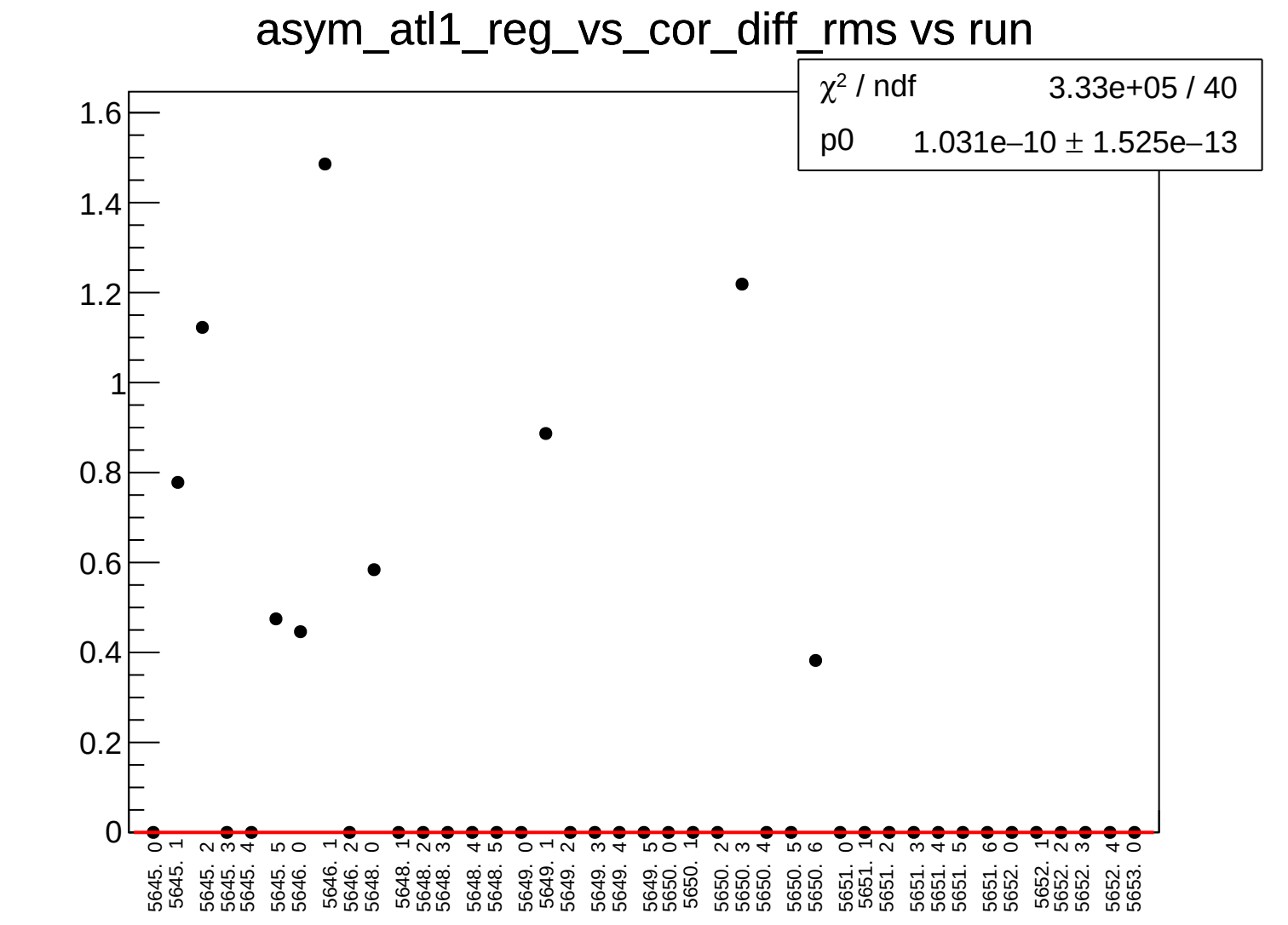

asym_atl1_mean vs run
×10^3
χ² / ndf 34.31 / 40
p0 −1030 ± 5863
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 295.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

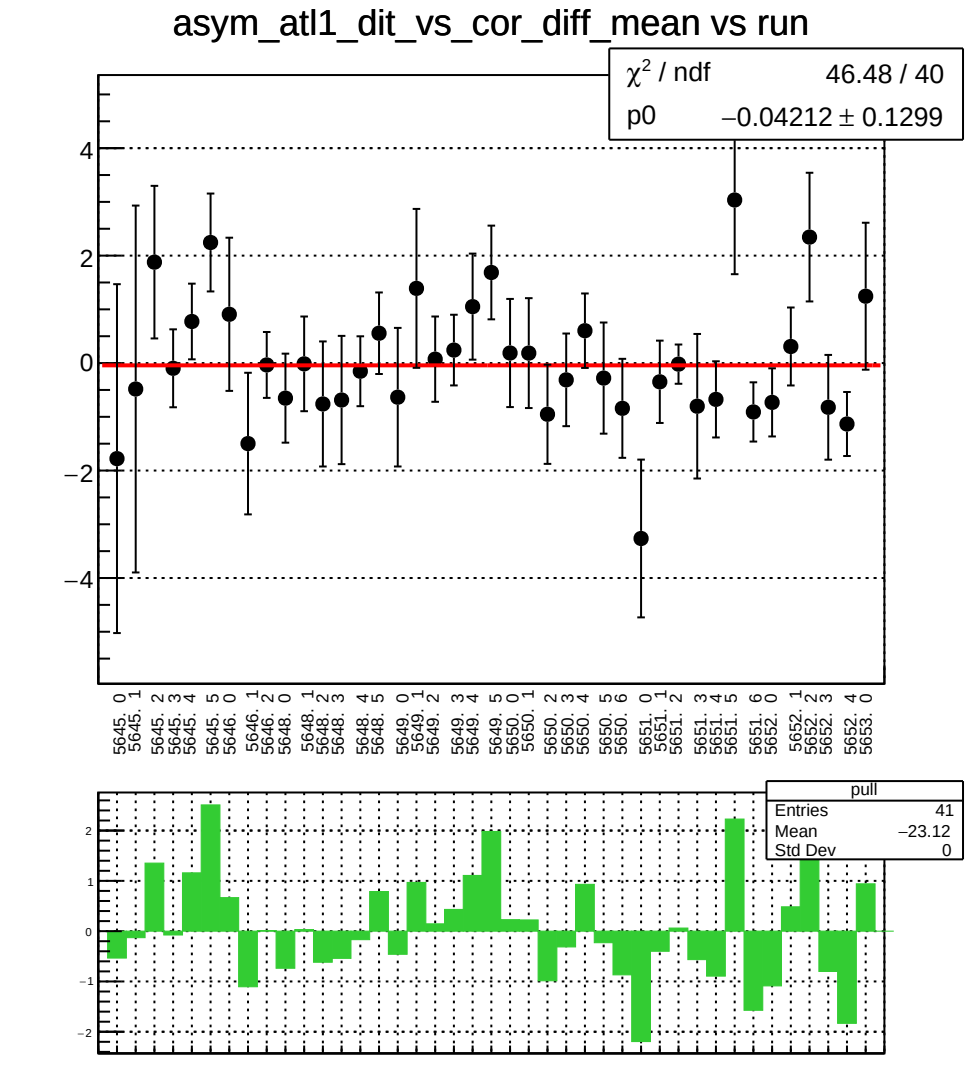

pull1D
Entries 41
Mean −0.01466
Std Dev 0.9146
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

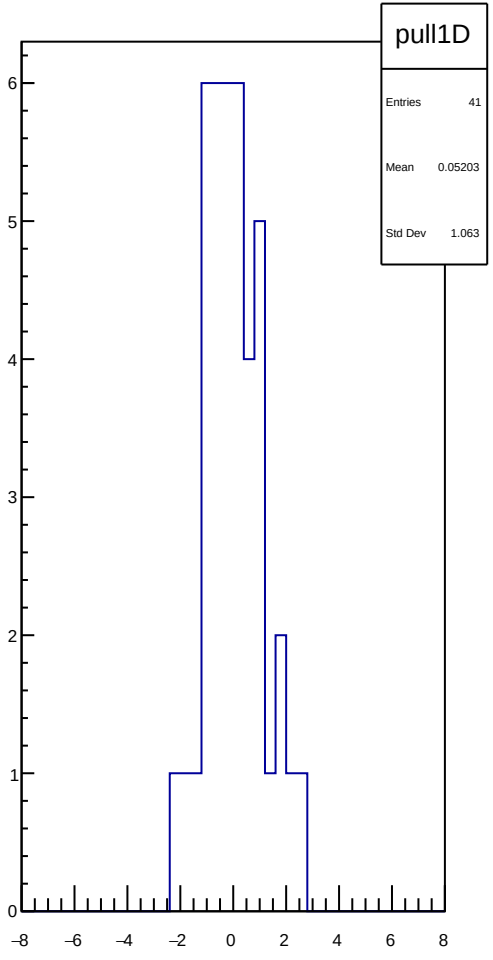

asym_atl1_rms vs run
χ² / ndf 135.7 / 40
p0 3686 ± 4.146
3900
3850
3800
3750
3700
3650
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

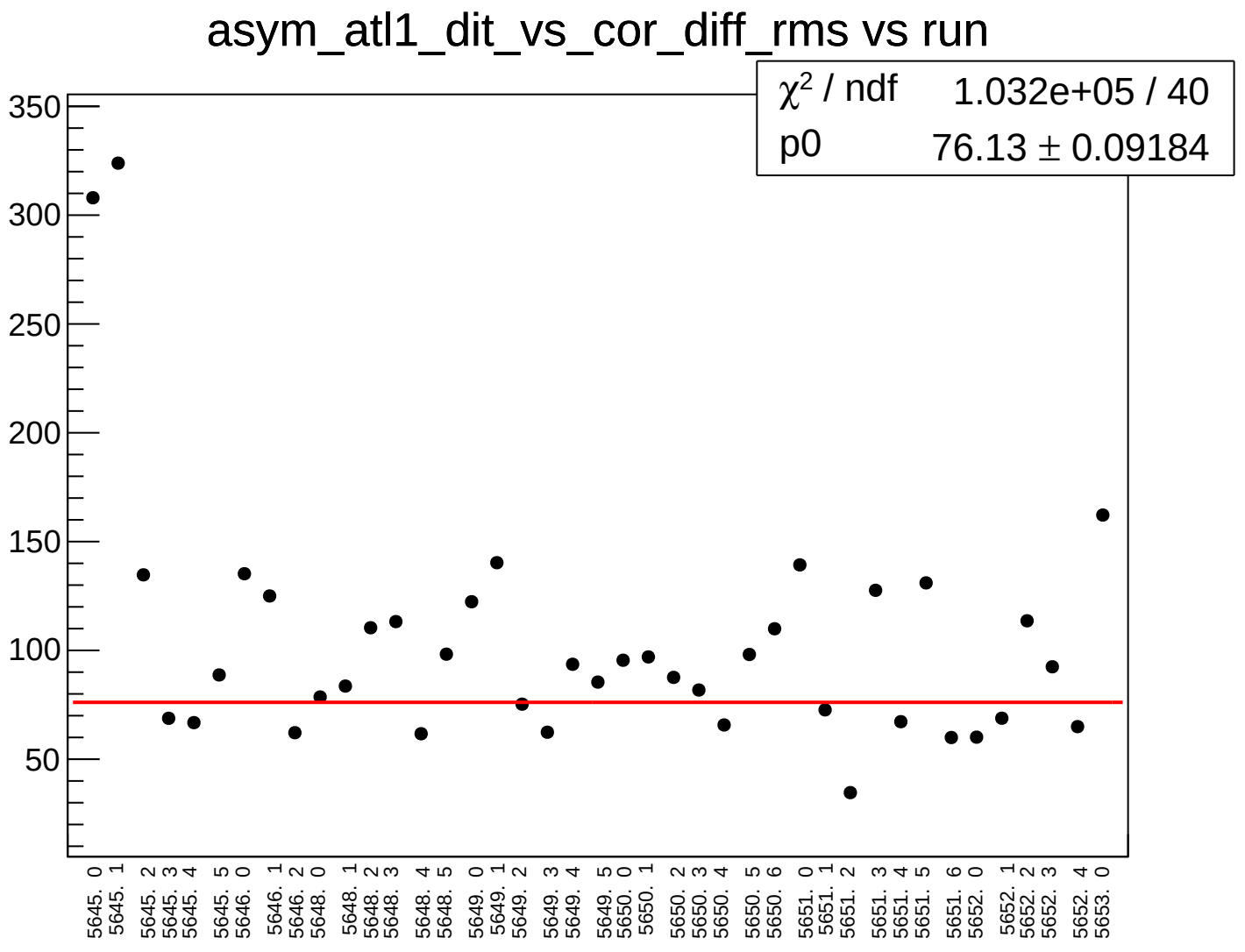

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 24.01 / 40
p0 −5.551e−13 ± 2.156e−13
0.01
0
−0.01
−0.02
−0.03
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.03
Std Dev 9.971
1.5
1
0.5
0
−0.5
−1

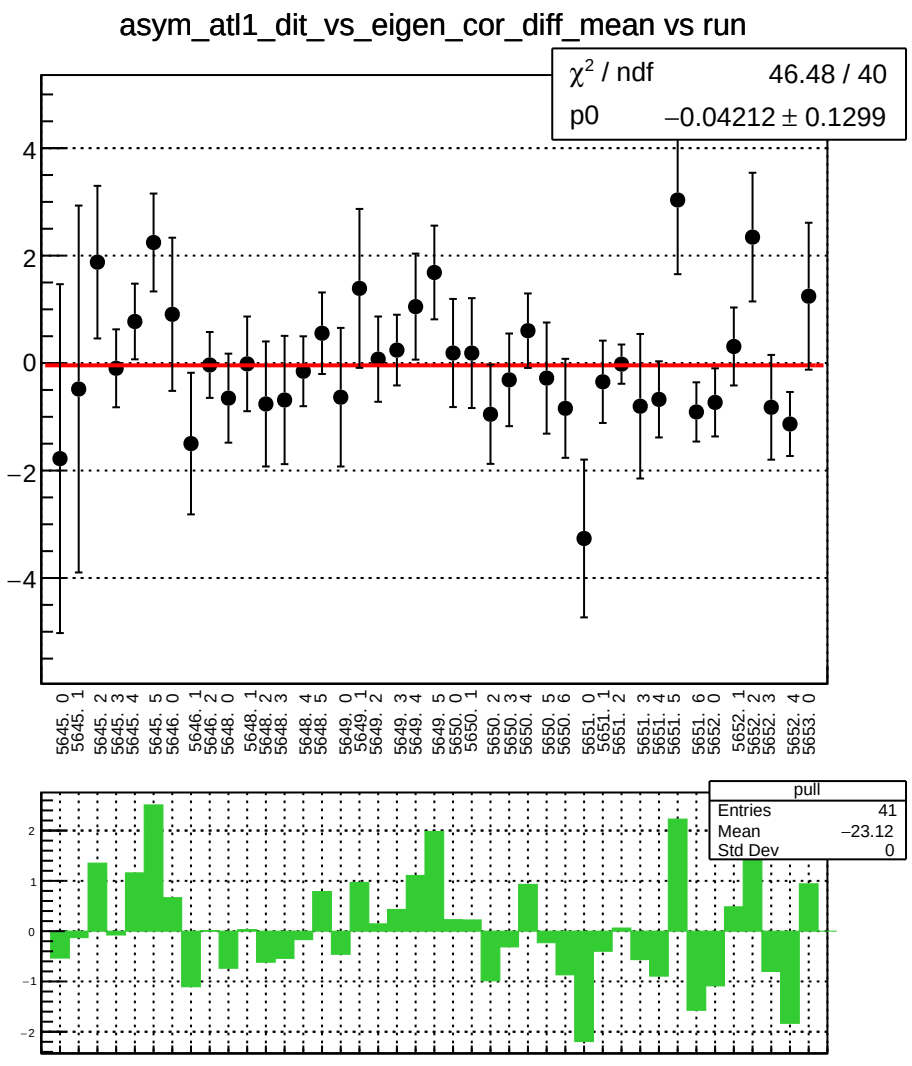

pull1D
Entries 41
Mean −0.1447
Std Dev 0.7515
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

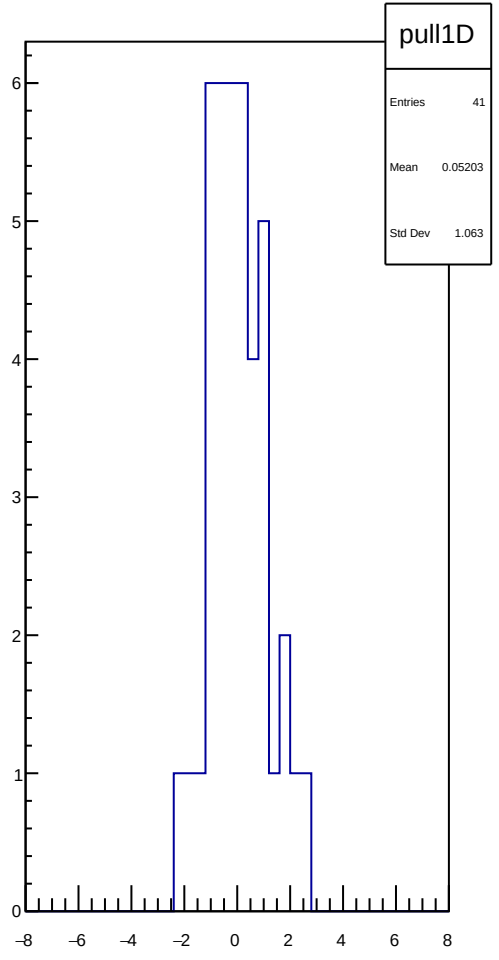

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 3.33e+05 / 40
p0 1.031e−10 ± 1.525e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

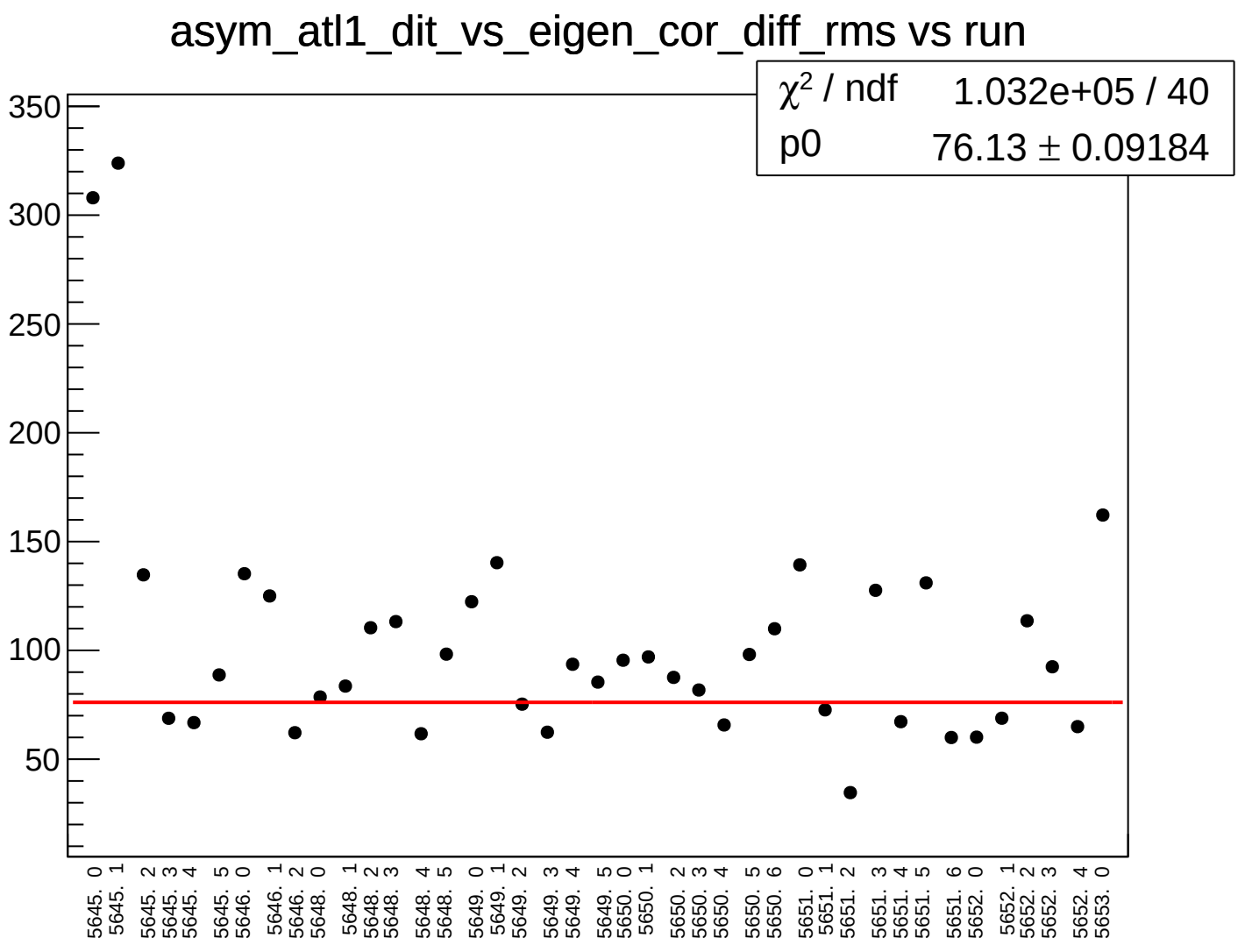

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 46.48 / 40
p0 −0.04212 ± 0.1299
pull
Entries 41
Mean −23.12
Std Dev 0

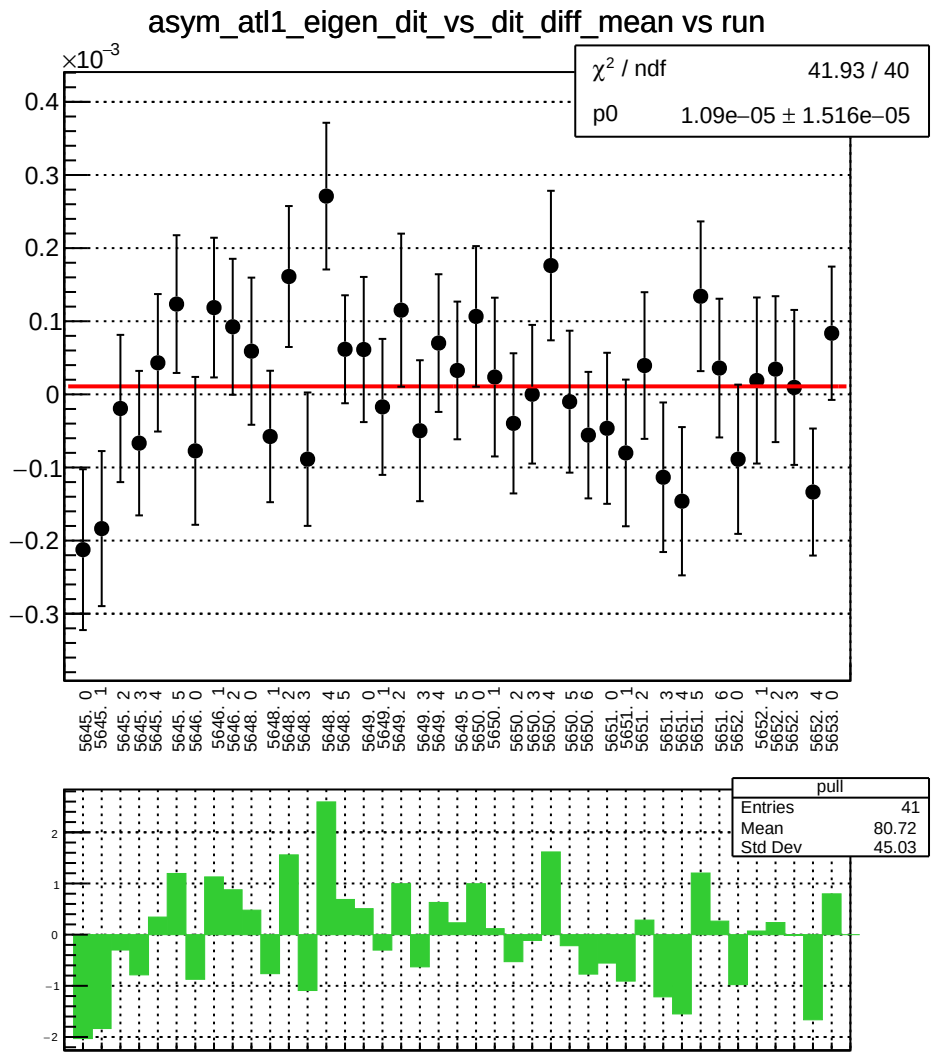

pull1D
Entries 41
Mean 0.05203
Std Dev 1.063

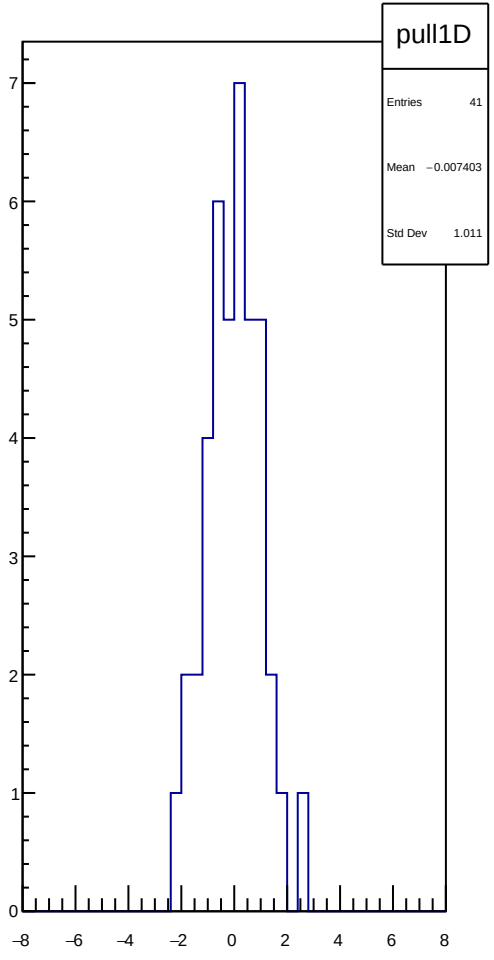

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 40
p0 76.13 ± 0.09184
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

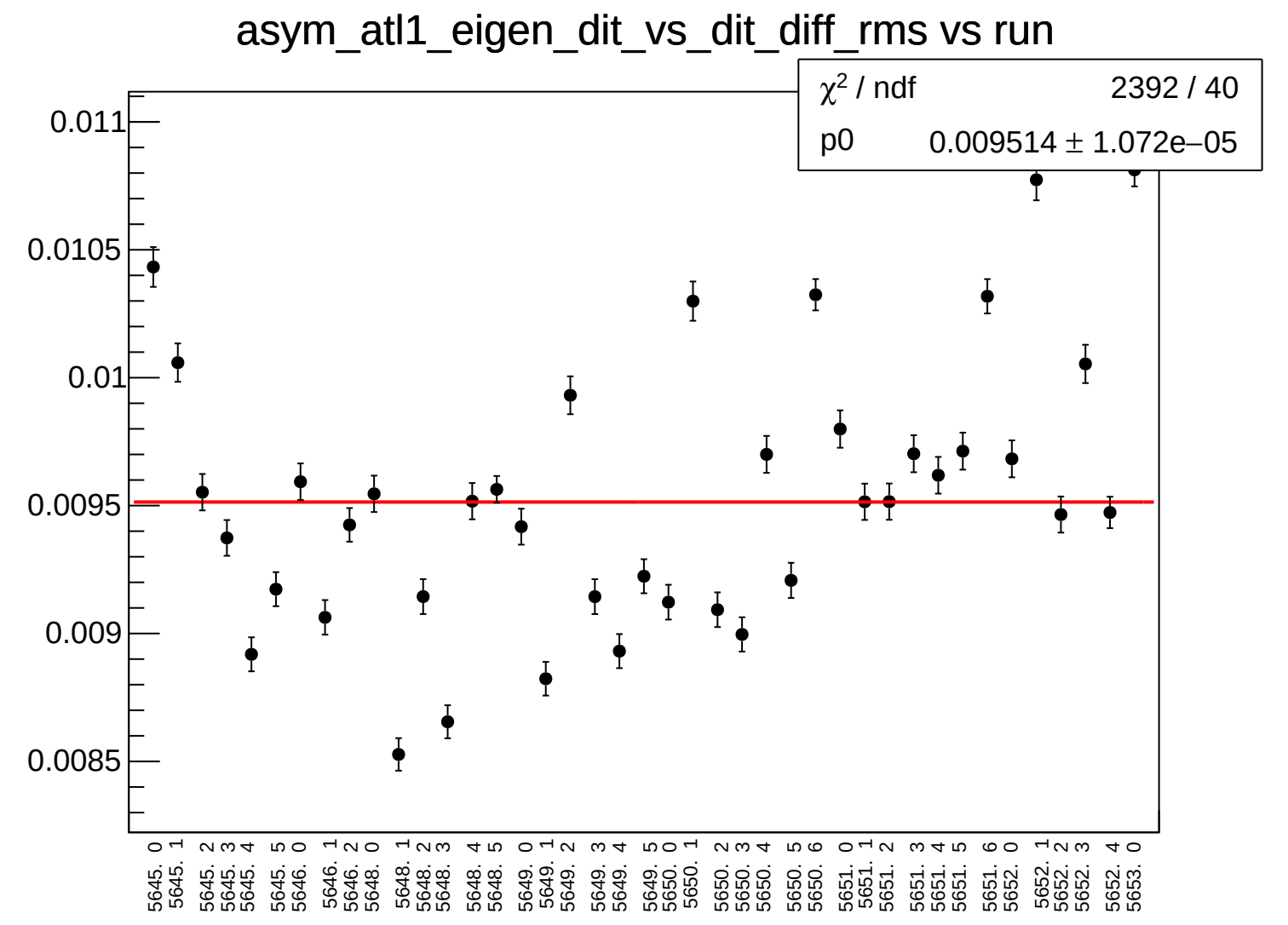

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.48 / 40
p0 −0.04212 ± 0.1299
pull
Entries 41
Mean −23.12
Std Dev 0

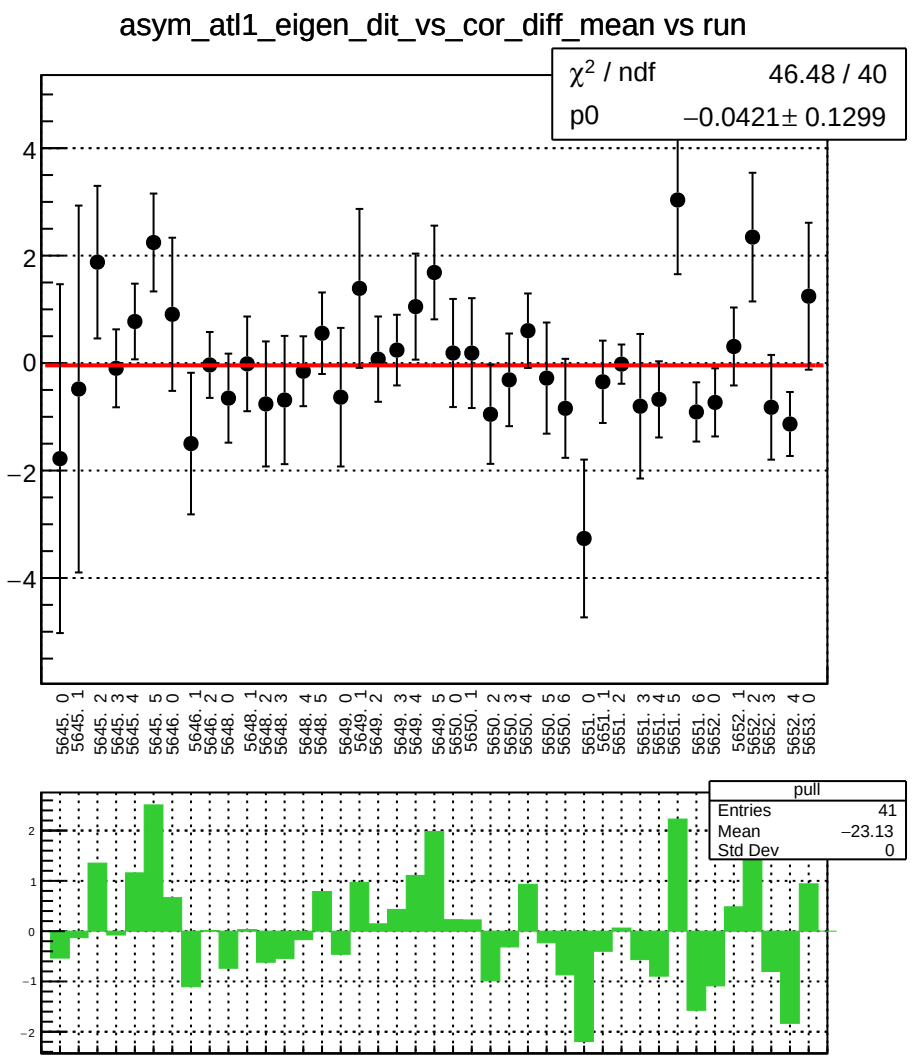

pull1D
Entries 41
Mean 0.05203
Std Dev 1.063

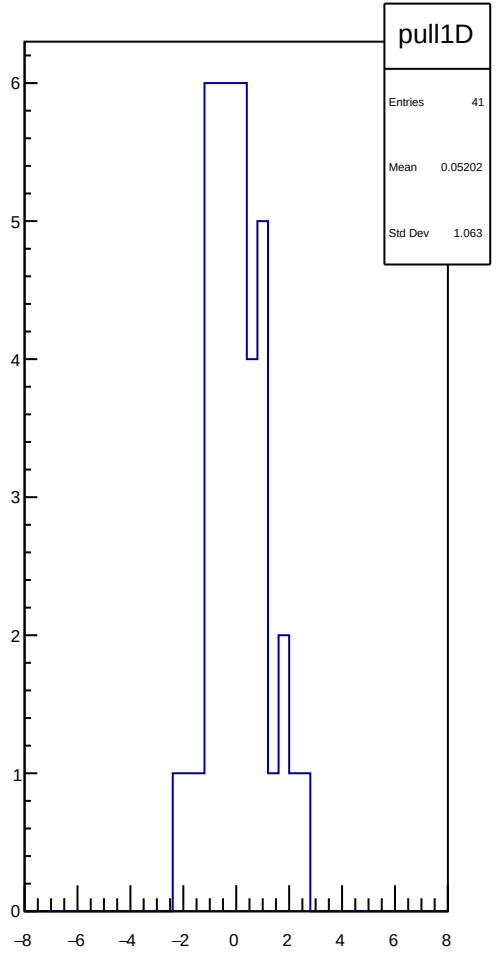

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 40
p0 76.13 ± 0.09184
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

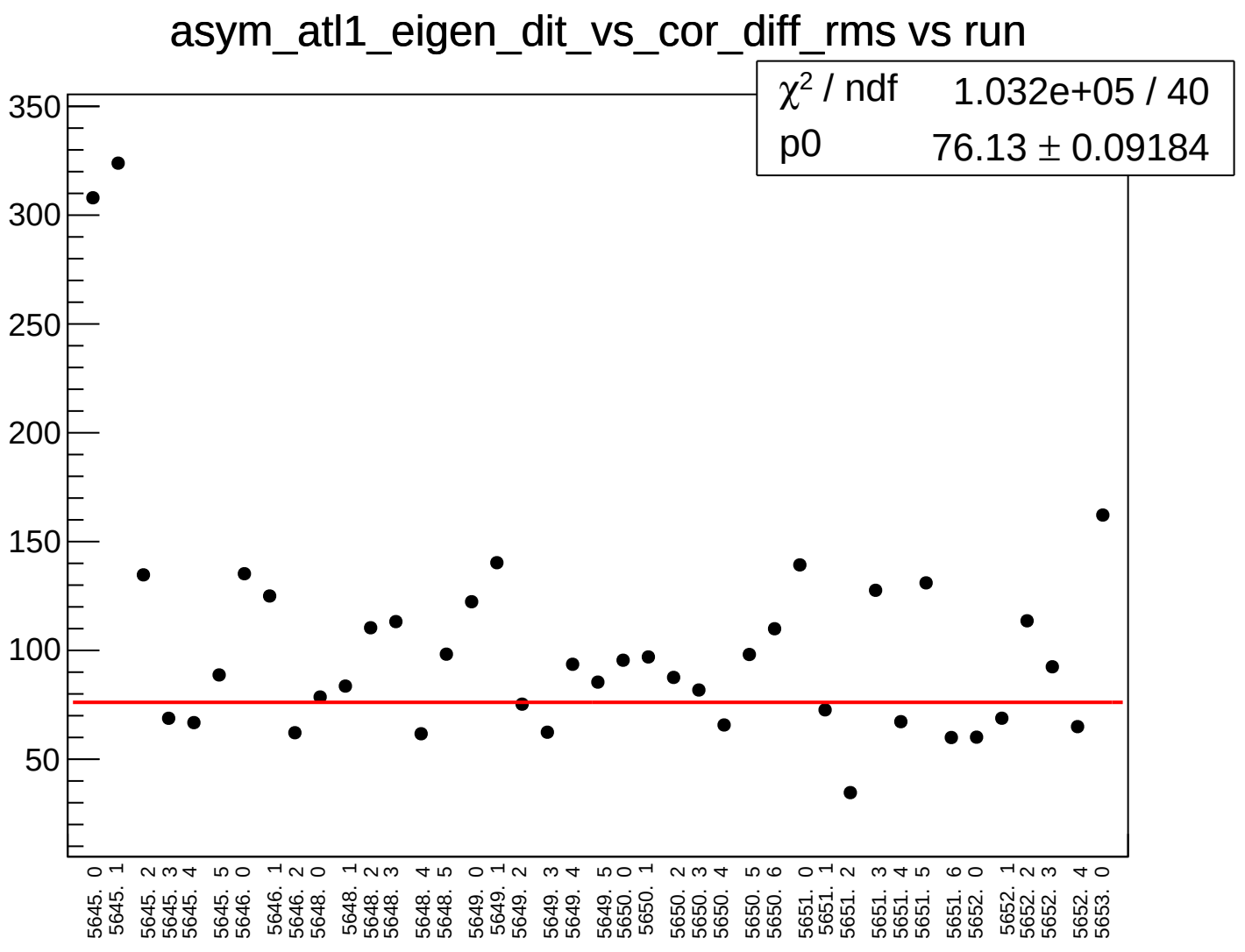

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.93 / 40
p0 1.09e−05 ± 1.516e−05
pull
Entries 41
Mean 80.72
Std Dev 45.03

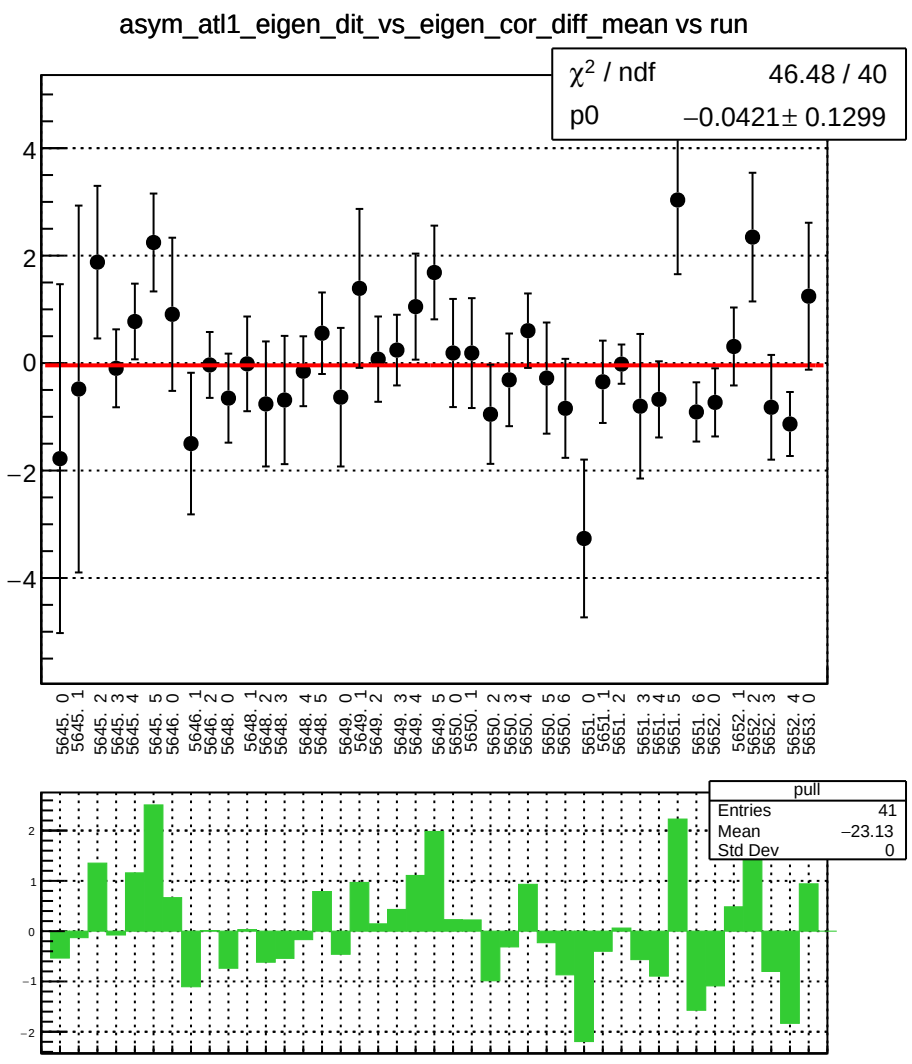

pull1D
Entries 41
Mean −0.007403
Std Dev 1.011

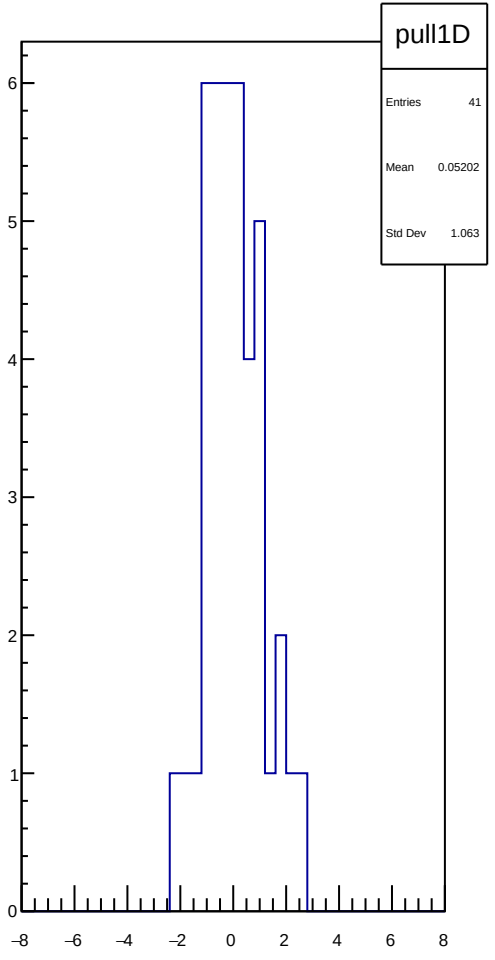

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2392 / 40
p0 0.009514 ± 1.072e−05
0.011
0.0105
0.01
0.0095
0.009
0.0085
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

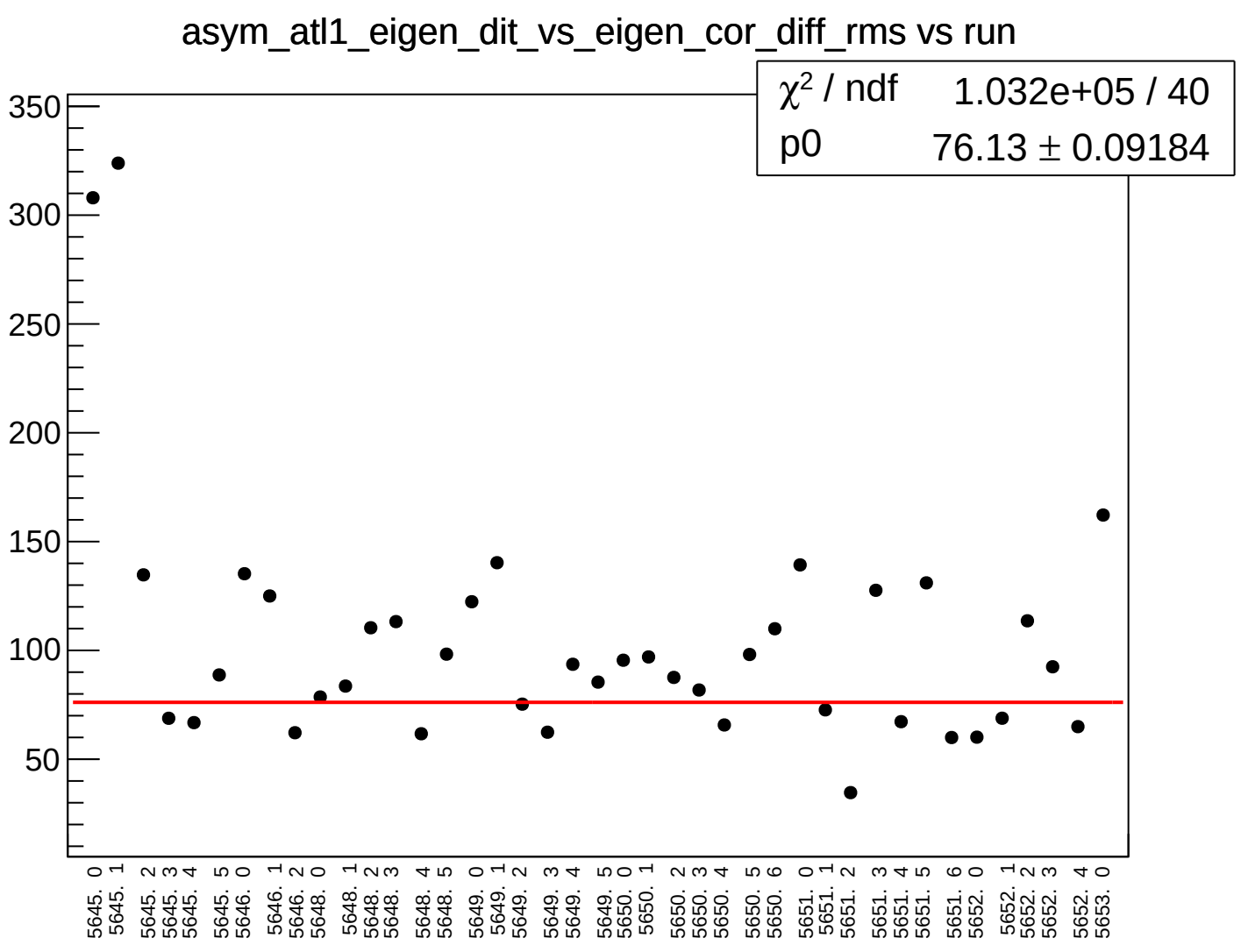

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.48 / 40
p0 −0.0421± 0.1299
pull
Entries 41
Mean −23.13
Std Dev 0

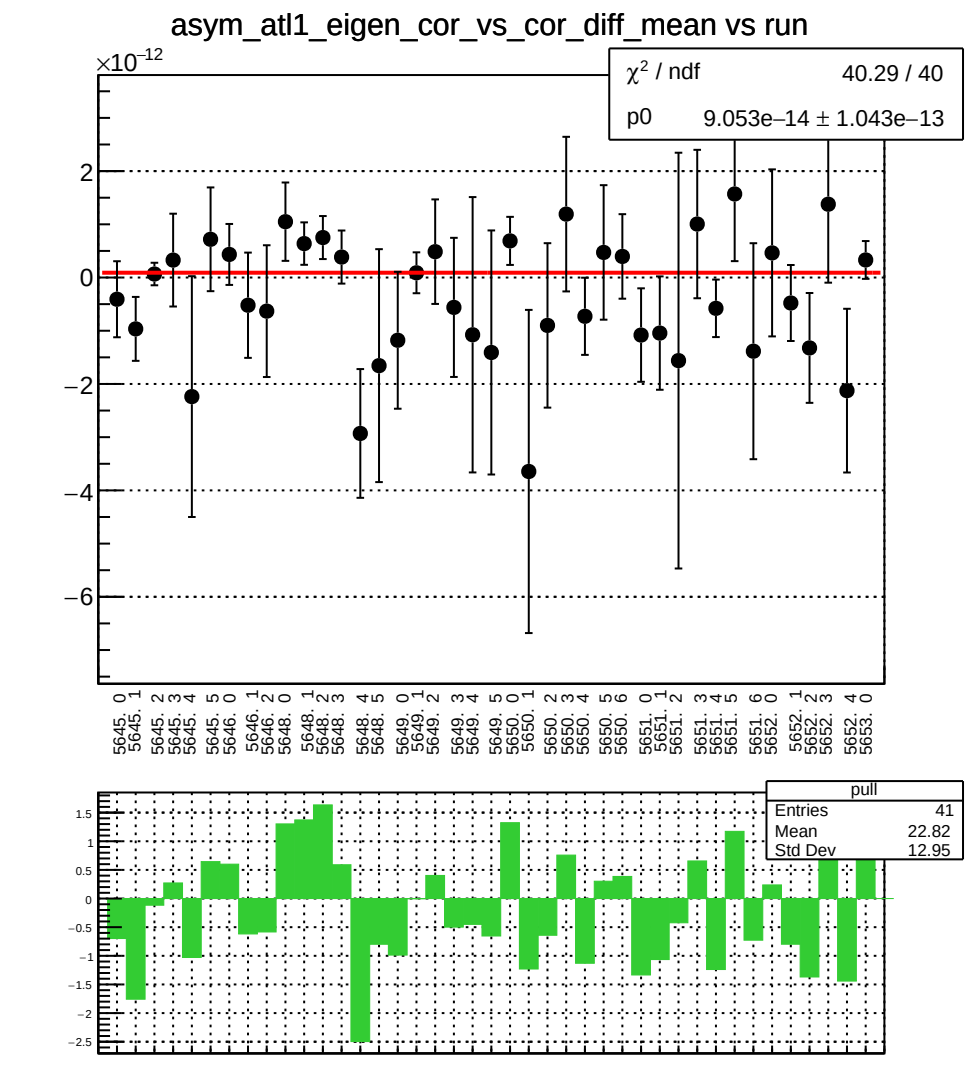

pull1D
Entries 41
Mean 0.05202
Std Dev 1.063

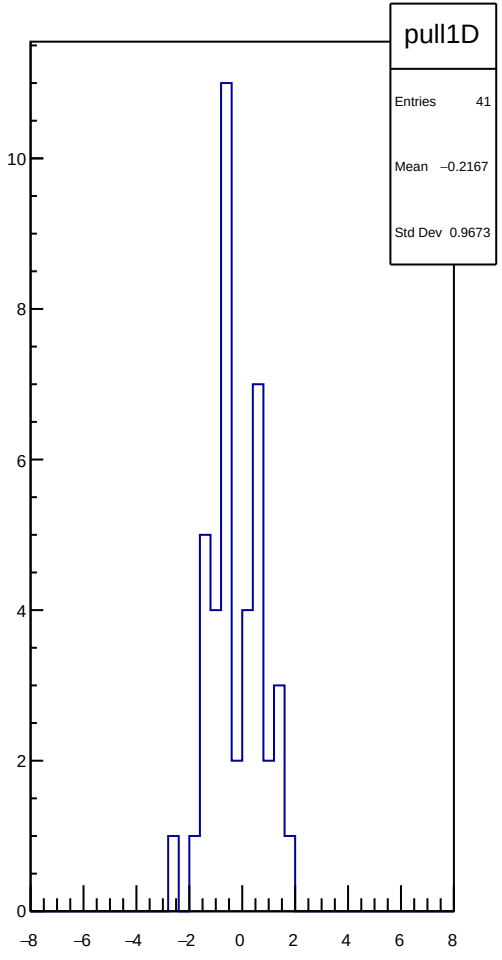

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 40
p0 76.13 ± 0.09184
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

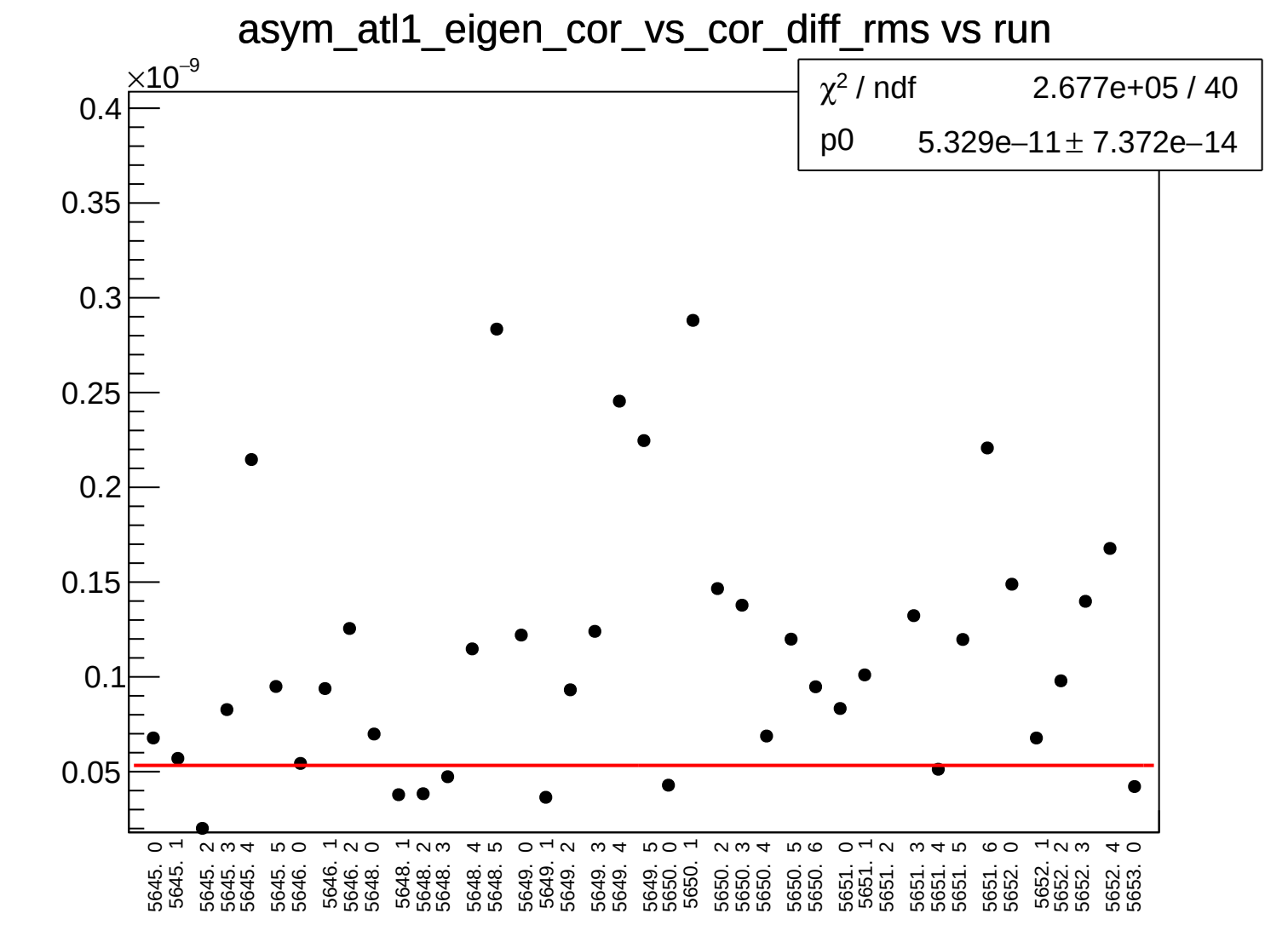

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.48 / 40
p0 −0.0421± 0.1299
pull
Entries 41
Mean −23.13
Std Dev 0

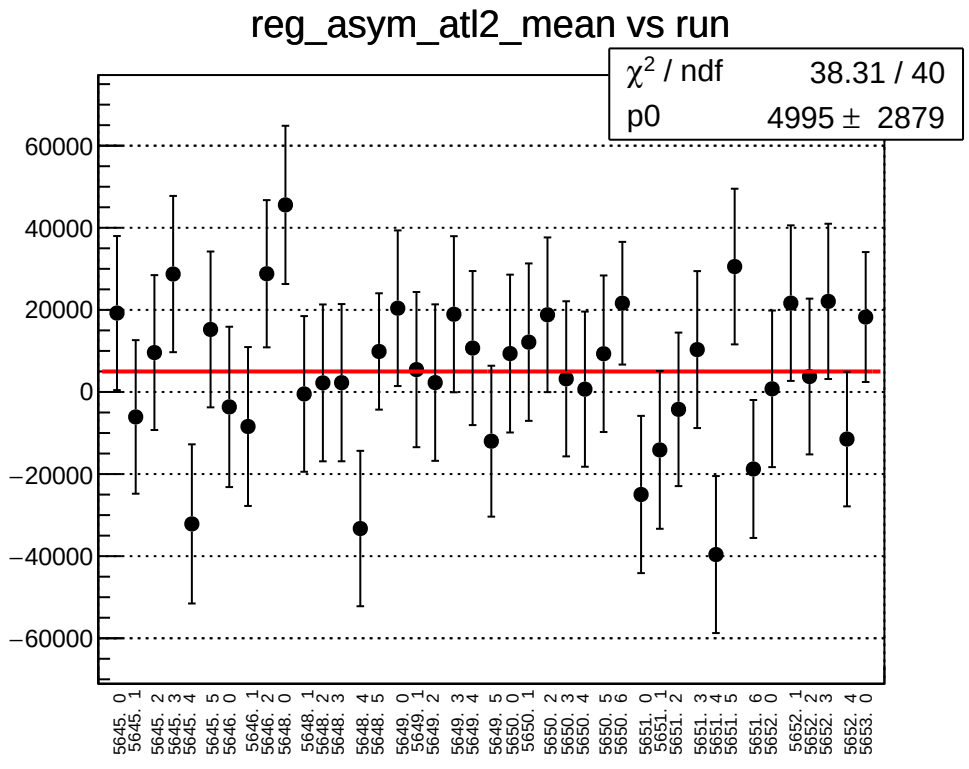

pull1D
Entries 41
Mean 0.05202
Std Dev 1.063

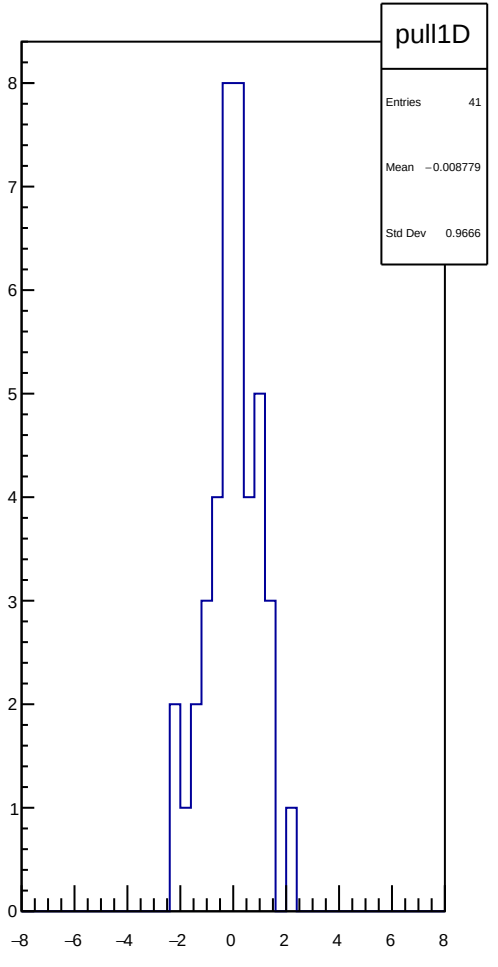

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.032e+05 / 40
p0 76.13 ± 0.09184
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

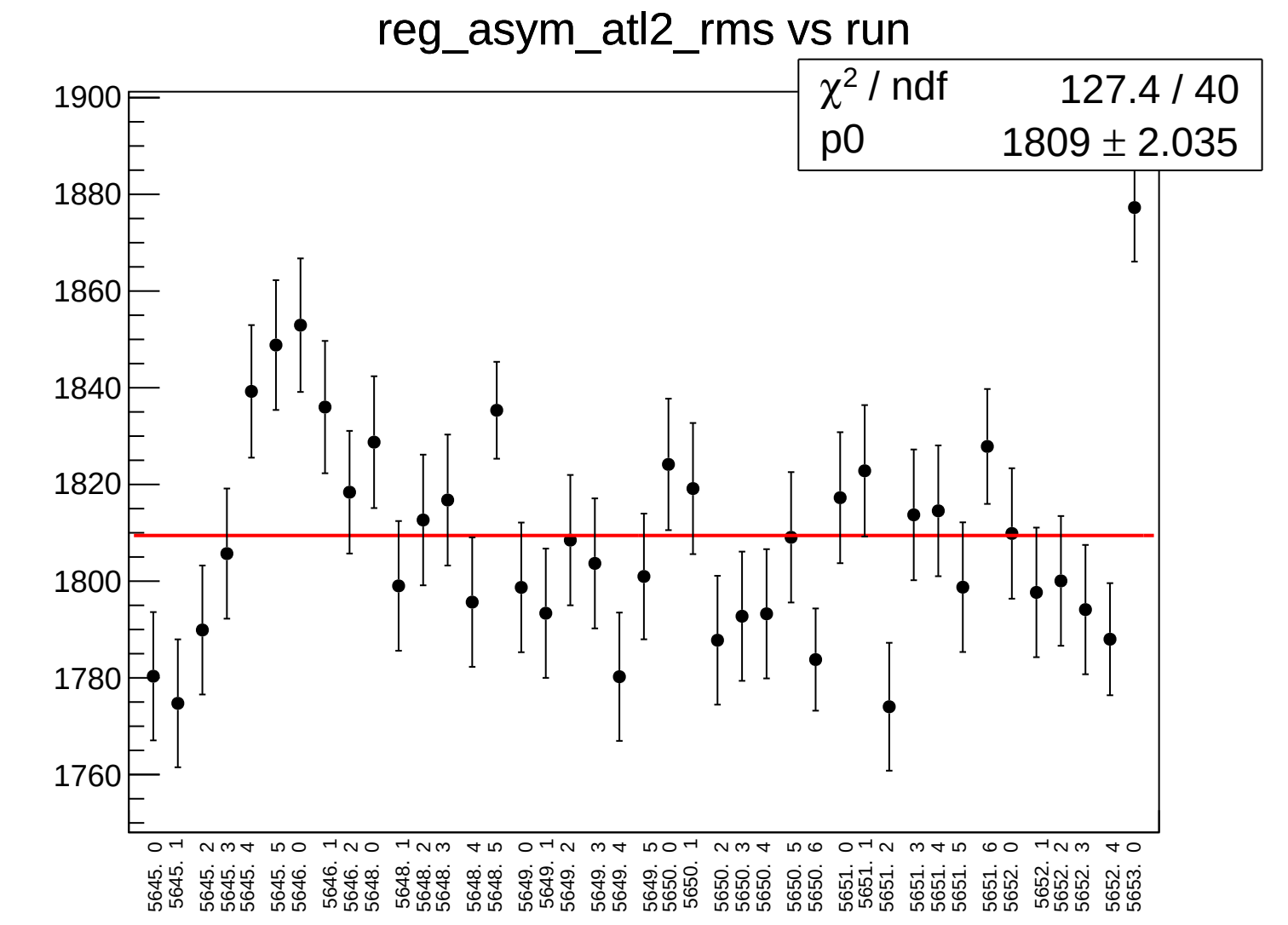

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 40.29 / 40
p0 9.053e−14 ± 1.043e−13
pull
Entries 41
Mean 22.82
Std Dev 12.95

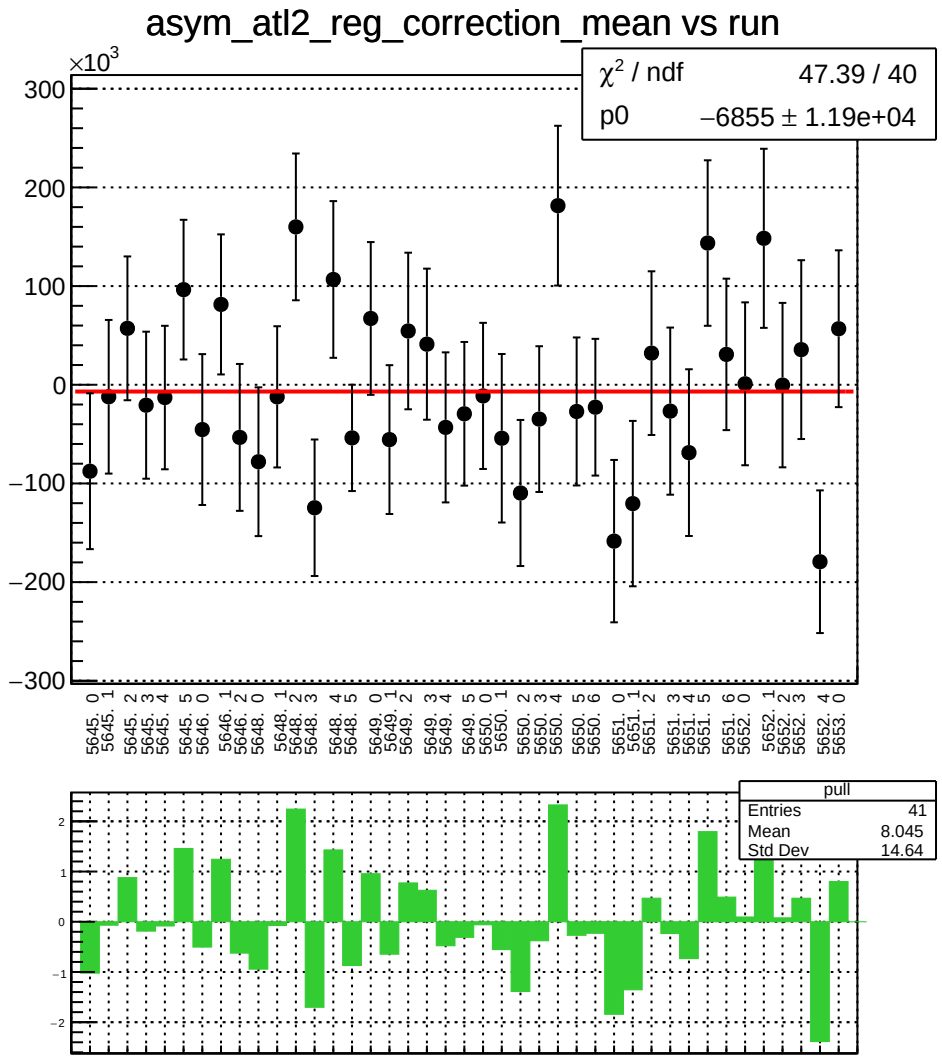

pull1D
Entries 41
Mean −0.2167
Std Dev 0.9673

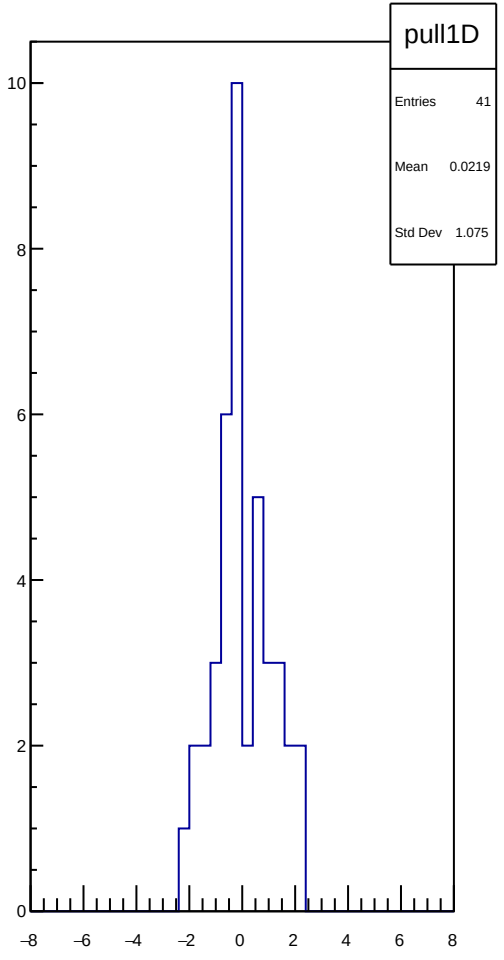

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.677e+05 / 40
p0 5.329e−11 ± 7.372e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

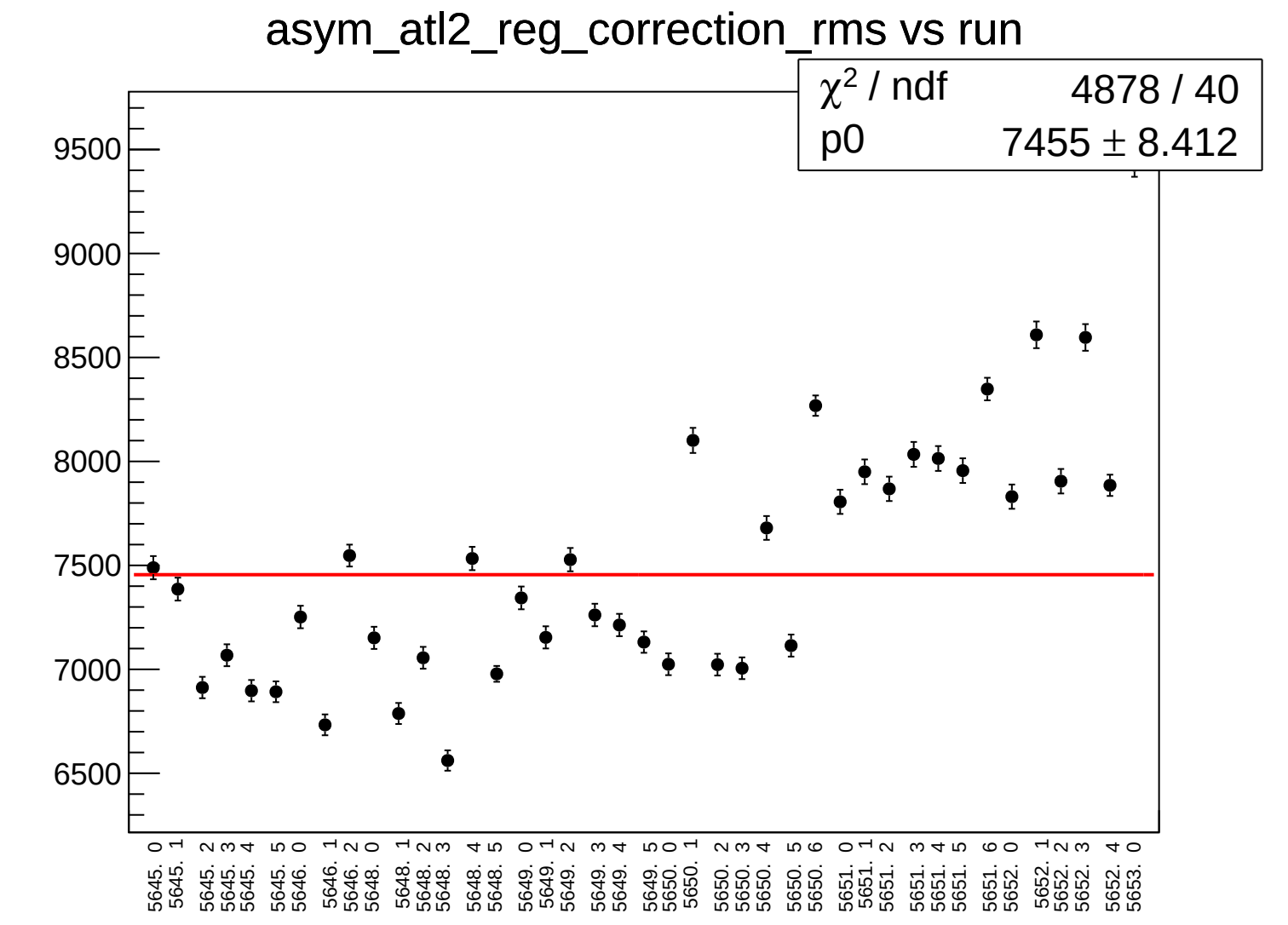

reg_asym_atl2_mean vs run
χ² / ndf 38.31 / 40
p0 4995 ± 2879
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 126.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

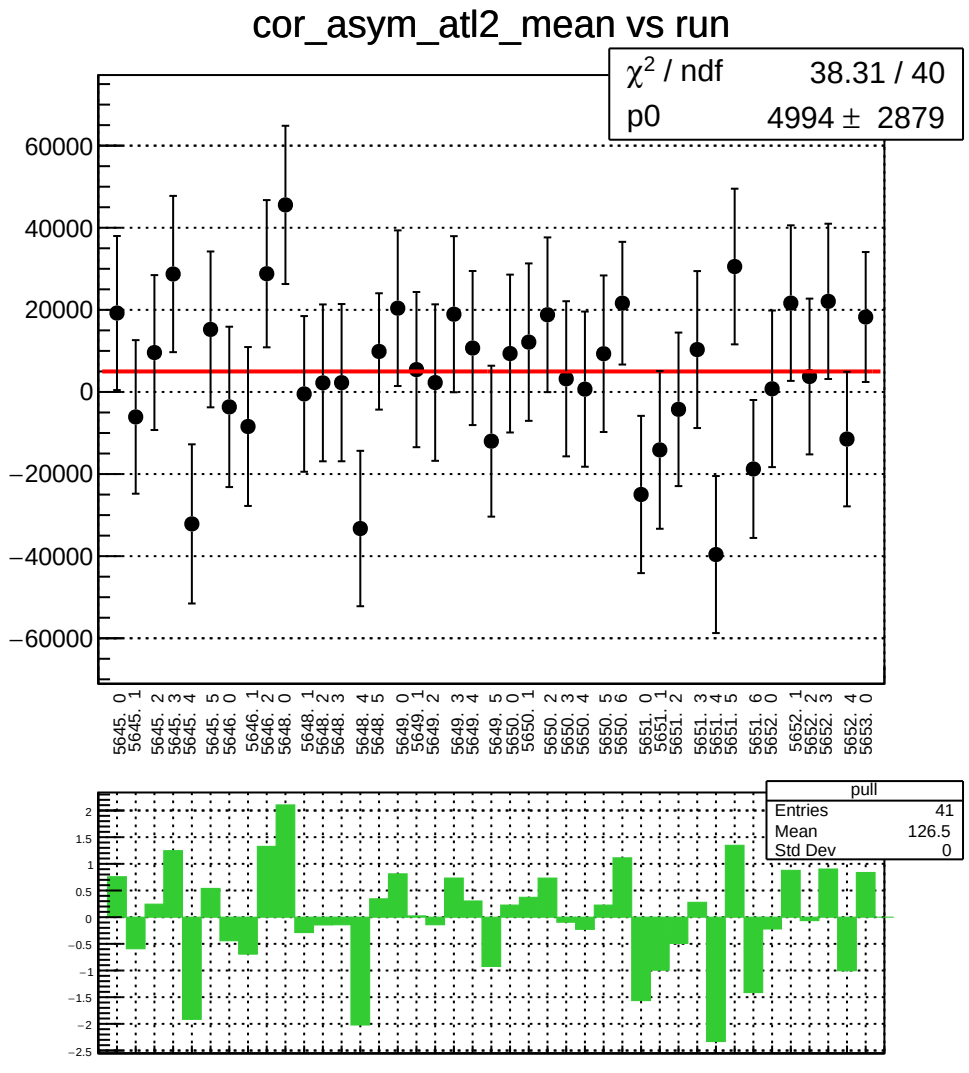

pull1D
Entries 41
Mean −0.008779
Std Dev 0.9666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

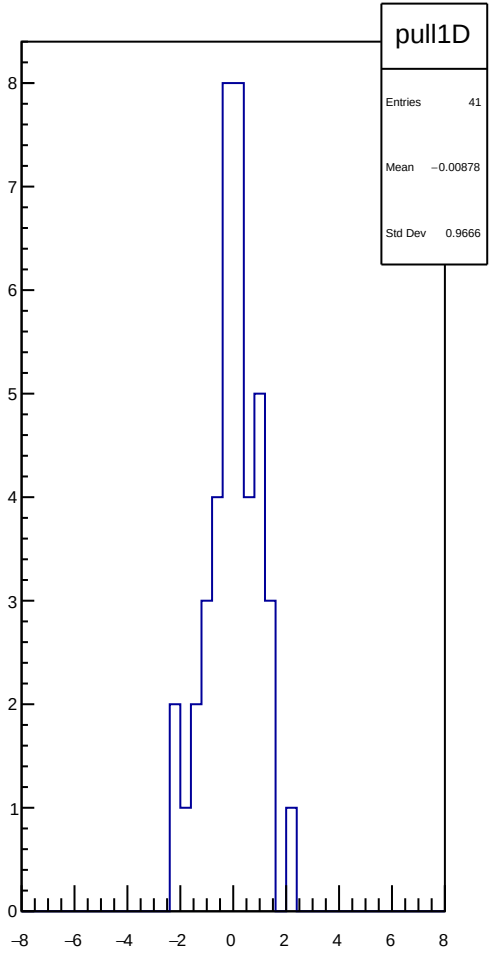

reg_asym_atl2_rms vs run
χ² / ndf 127.4 / 40
p0 1809 ± 2.035
1900
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

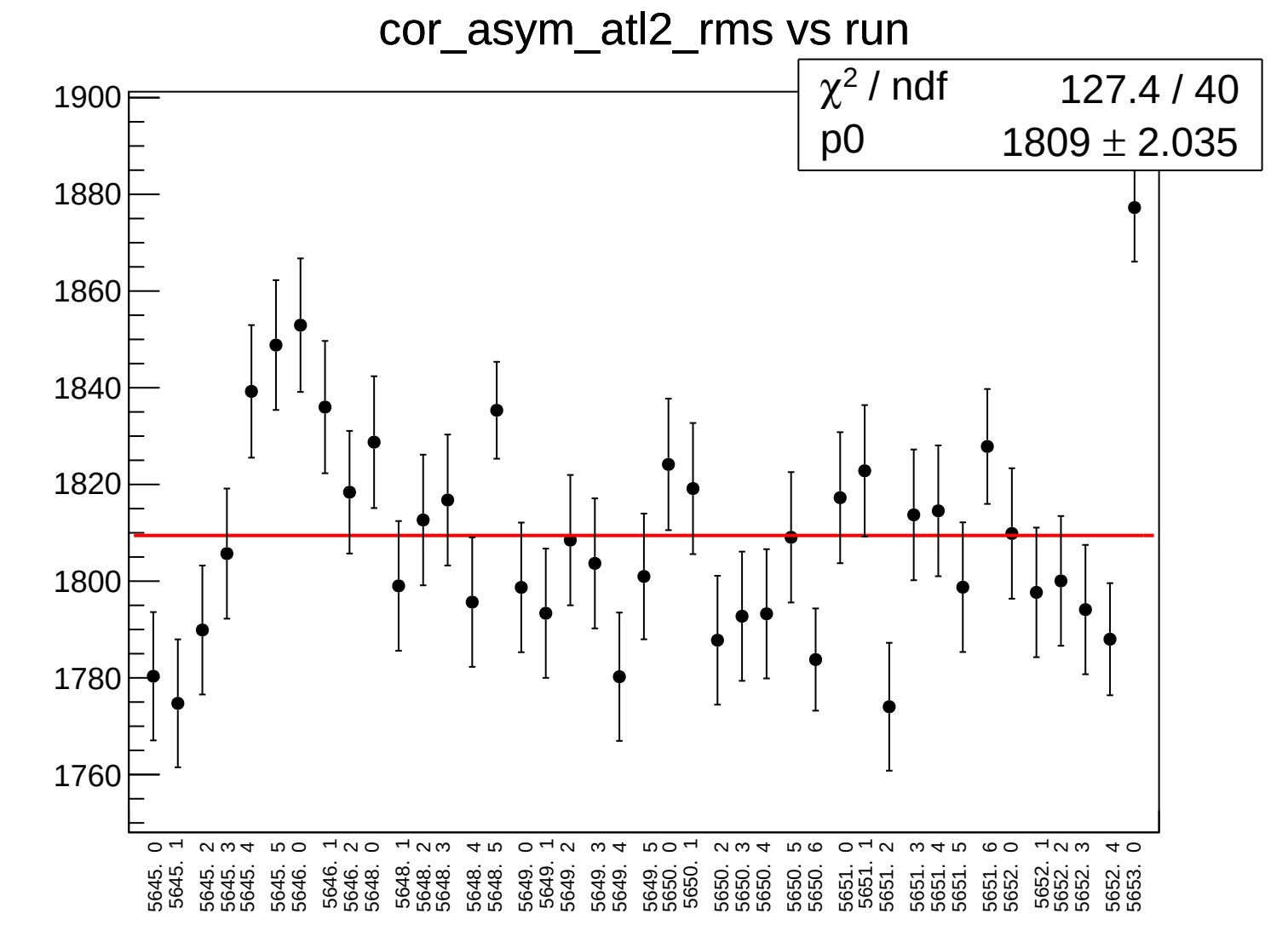

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 47.39 / 40
p0 −6855 ± 1.19e+04
pull
Entries 41
Mean 8.045
Std Dev 14.64

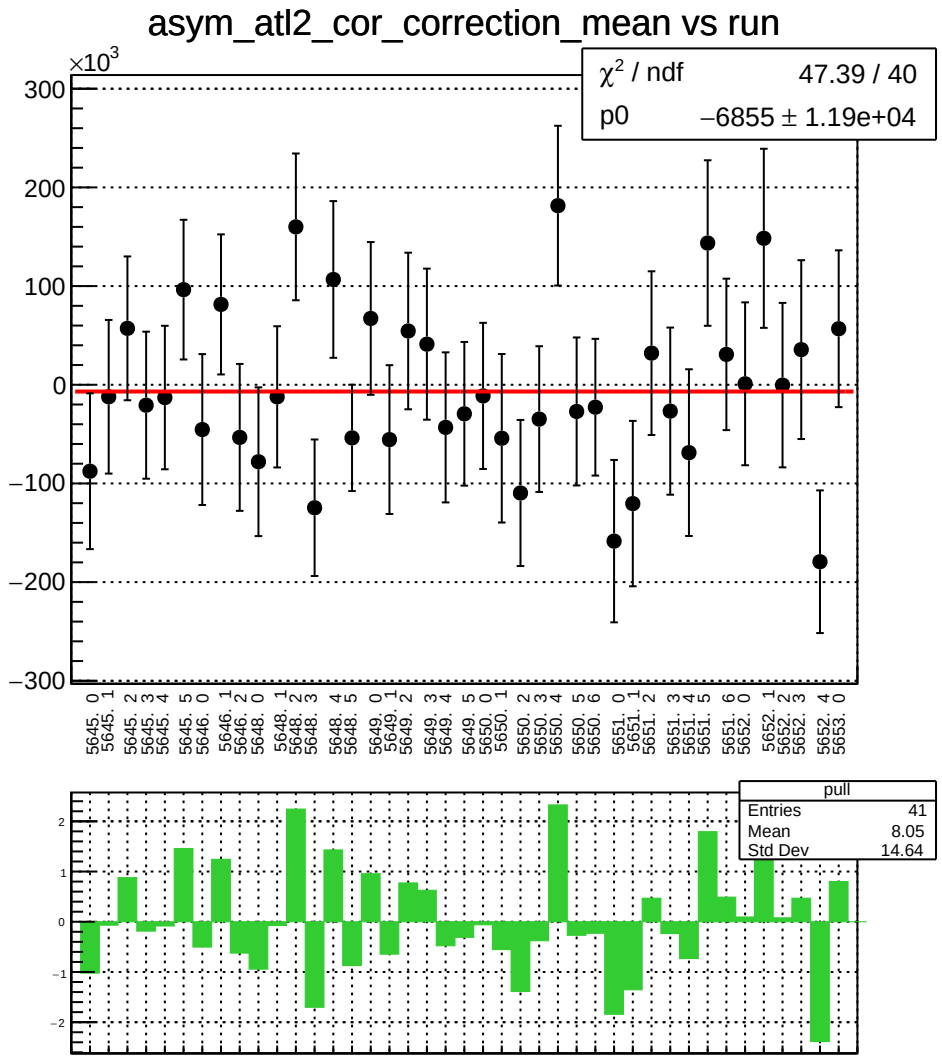

pull1D
Entries 41
Mean 0.0219
Std Dev 1.075

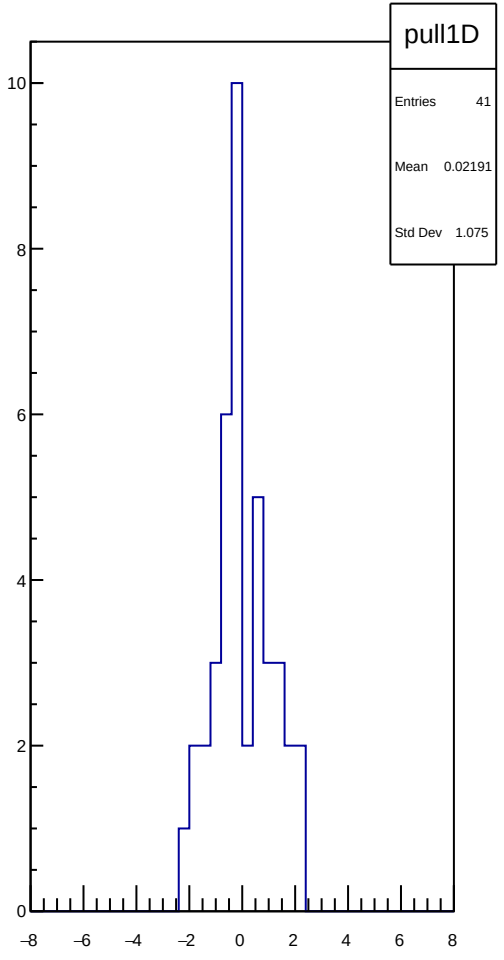

asym_atl2_reg_correction_rms vs run
χ² / ndf 4878 / 40
p0 7455 ± 8.412
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

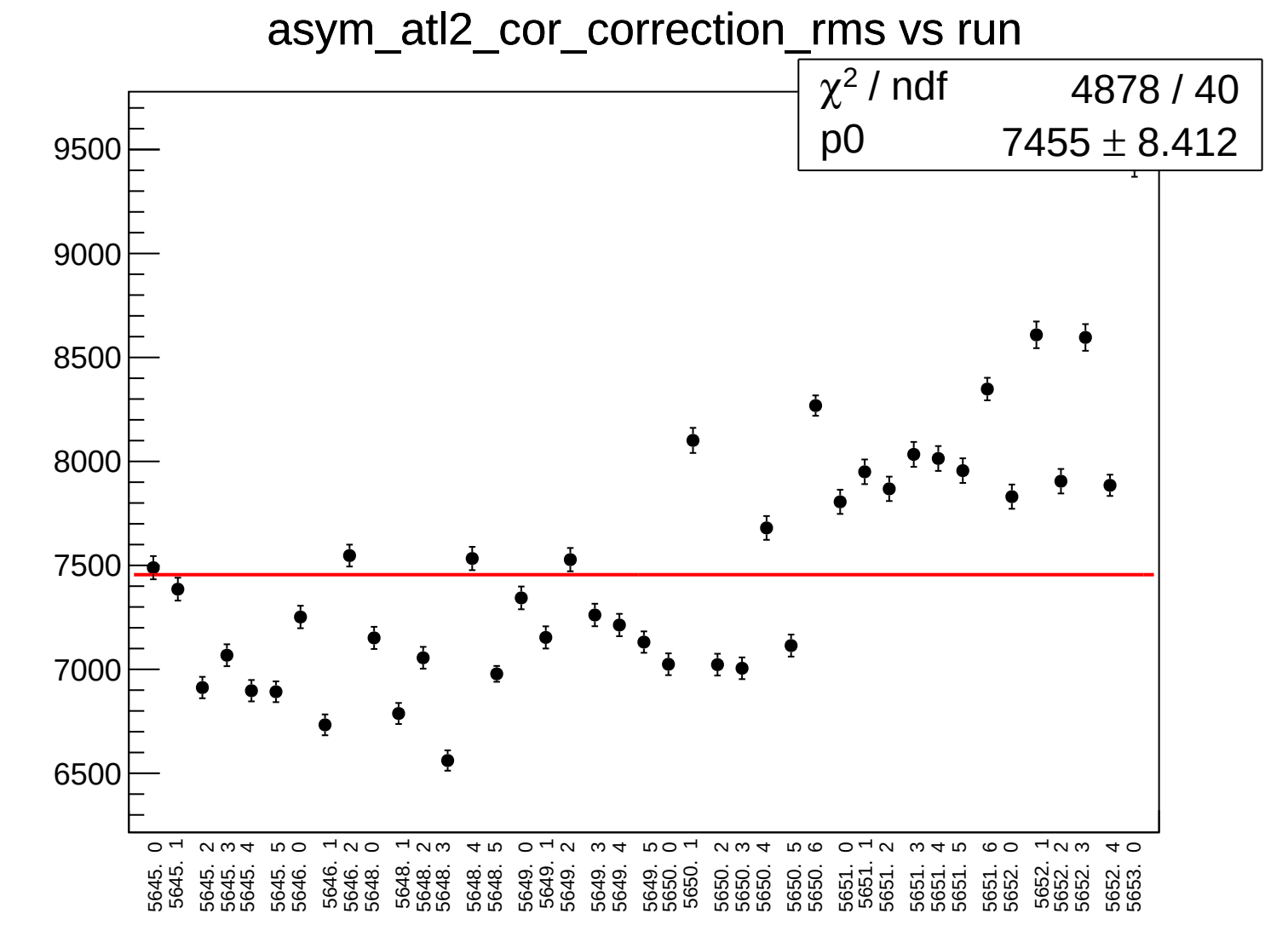

cor_asym_atl2_mean vs run
χ² / ndf 38.31 / 40
p0 4994 ± 2879
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 126.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

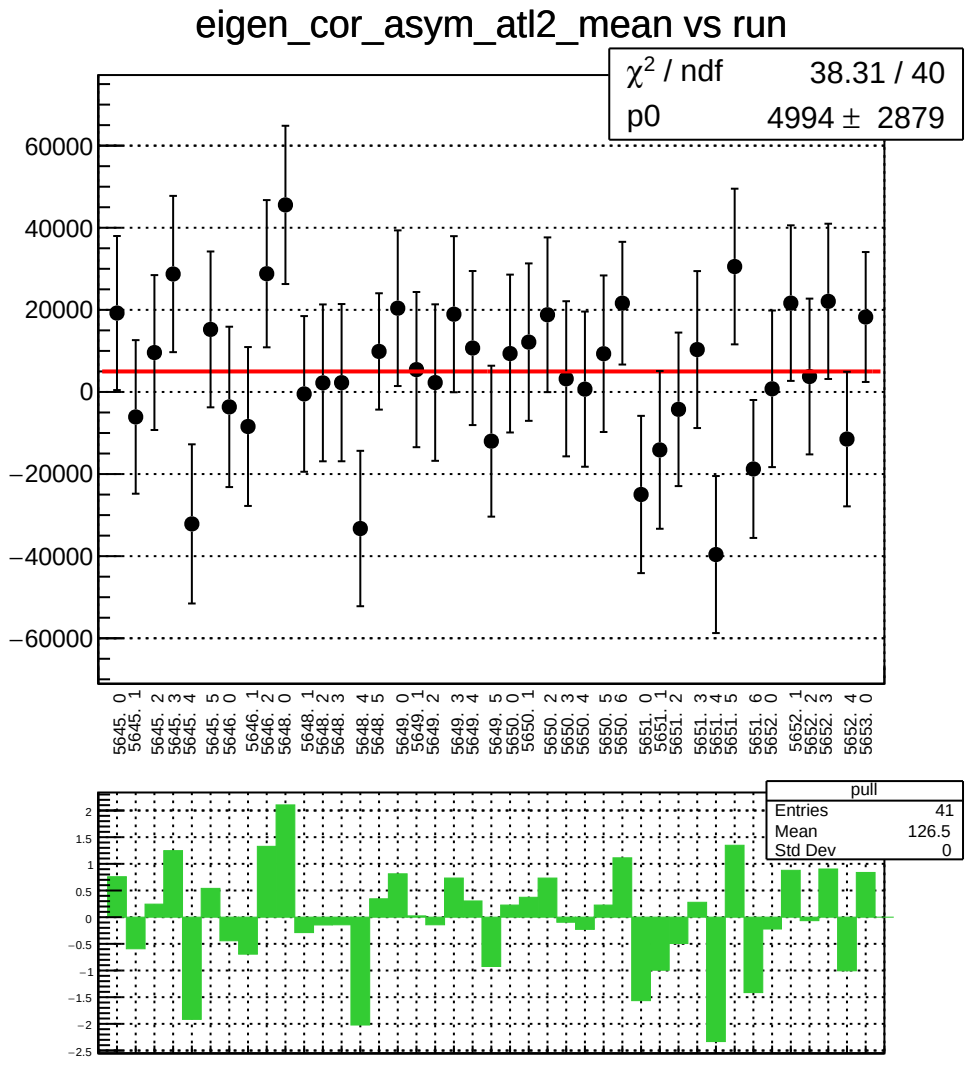

pull1D
Entries 41
Mean −0.00878
Std Dev 0.9666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

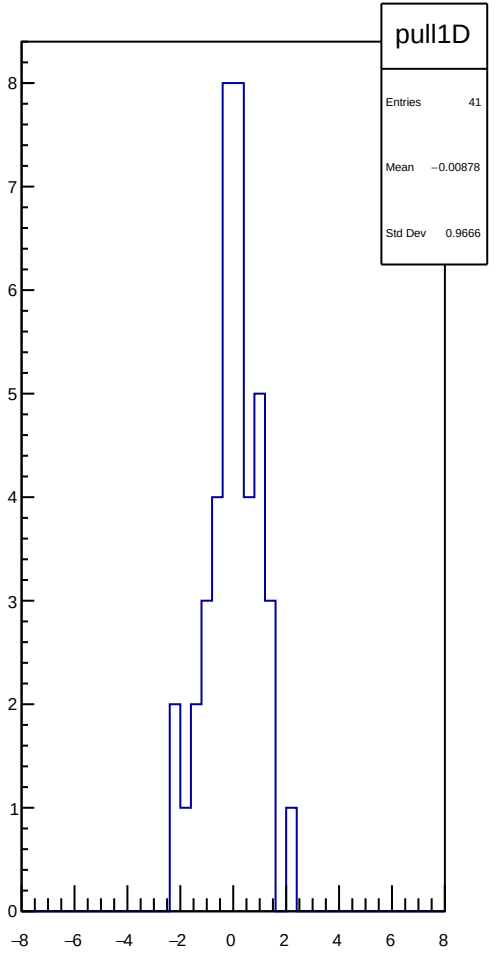

cor_asym_atl2_rms vs run
χ² / ndf 127.4 / 40
p0 1809 ± 2.035
1900
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

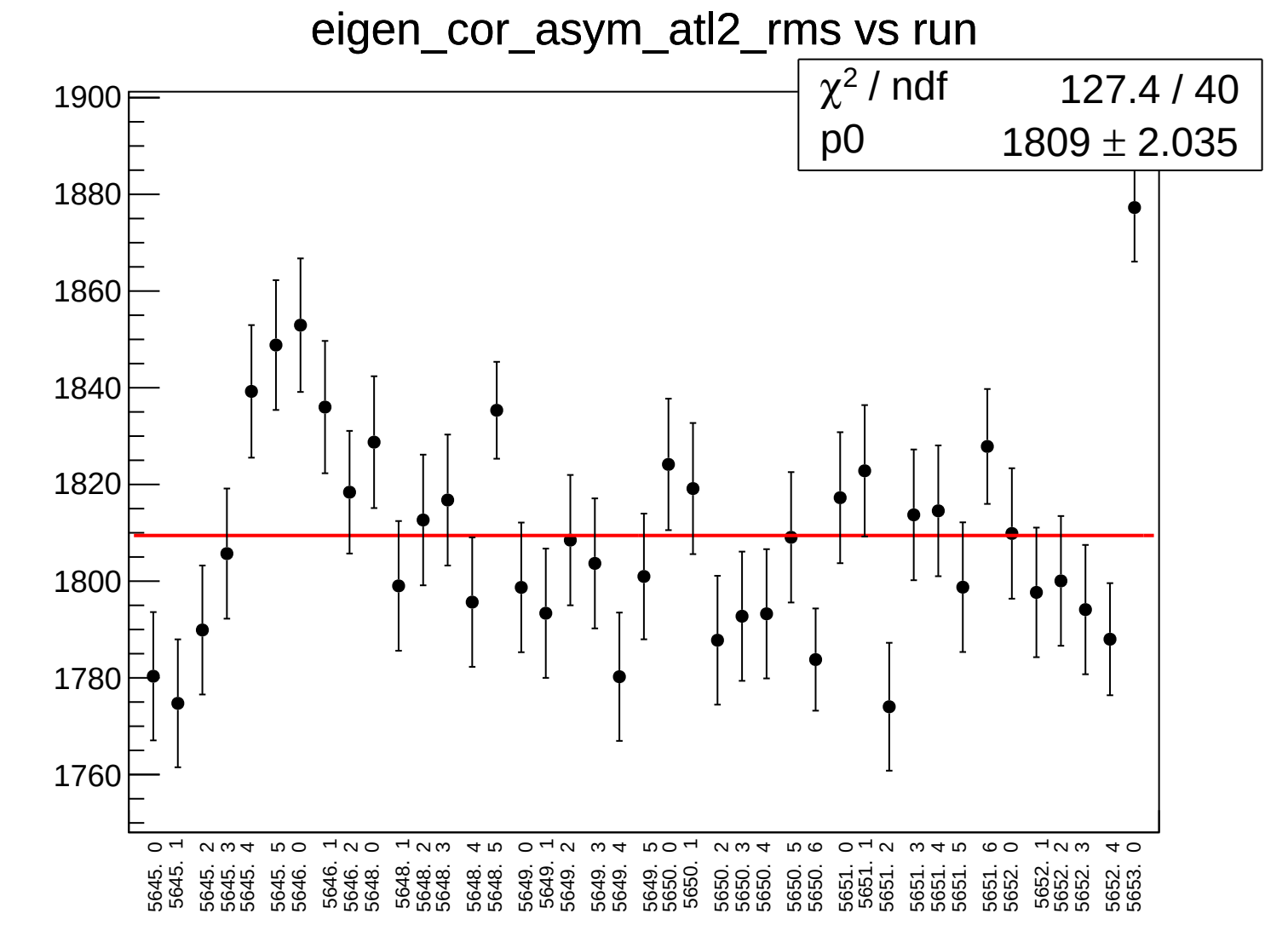

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 47.39 / 40
p0 −6855 ± 1.19e+04
pull
Entries 41
Mean 8.05
Std Dev 14.64

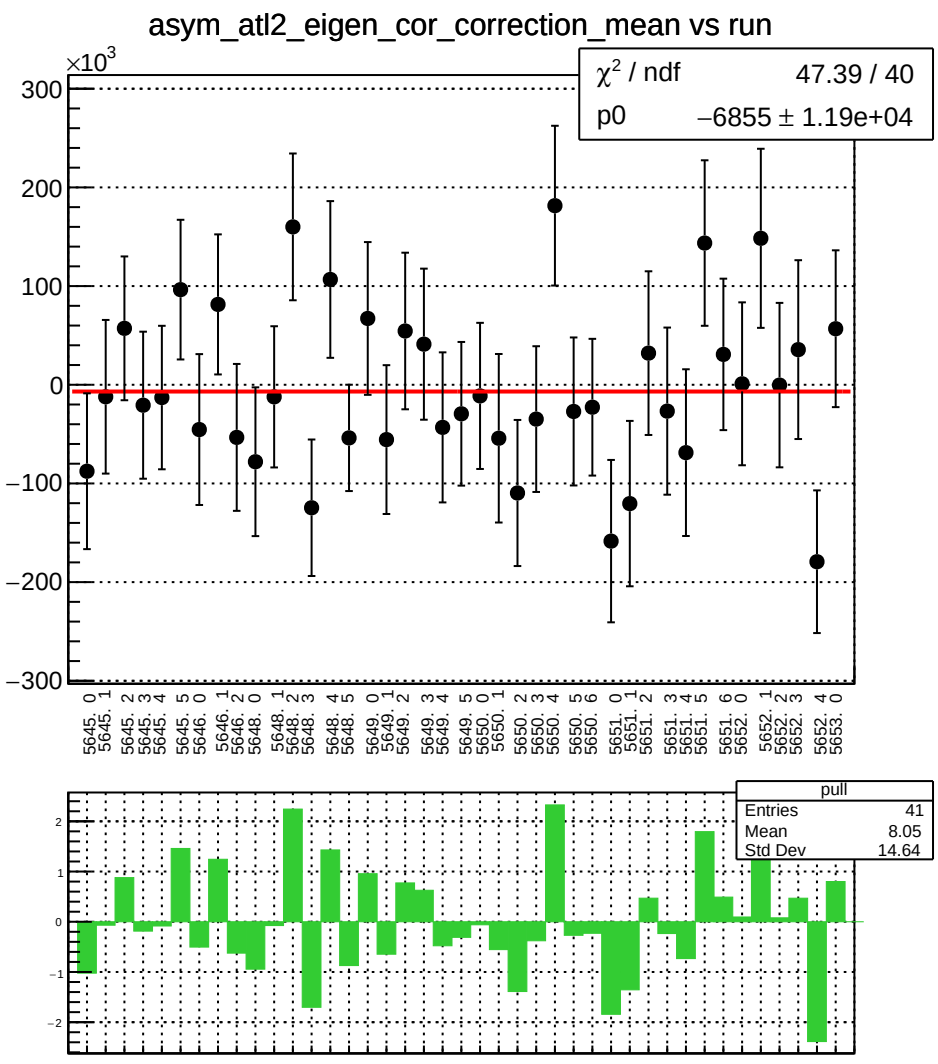

pull1D
Entries 41
Mean 0.02191
Std Dev 1.075

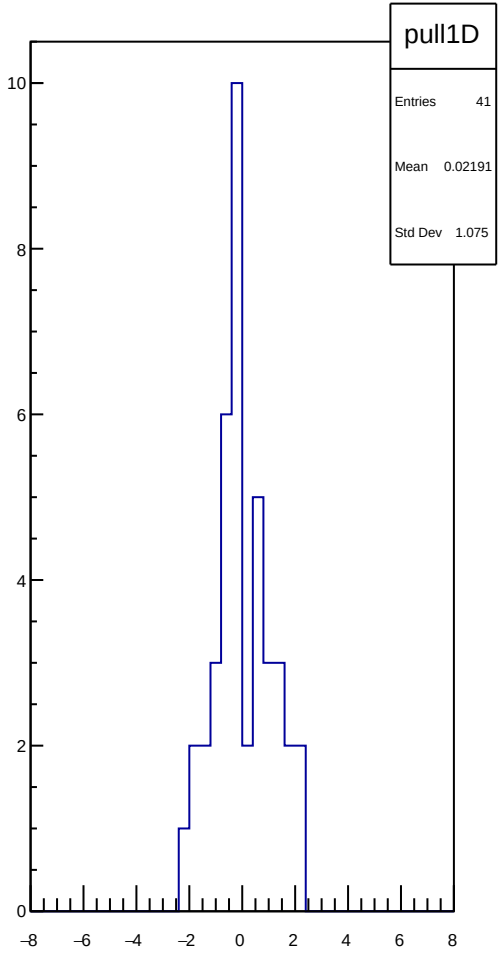

asym_atl2_cor_correction_rms vs run
χ² / ndf 4878 / 40
p0 7455 ± 8.412
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

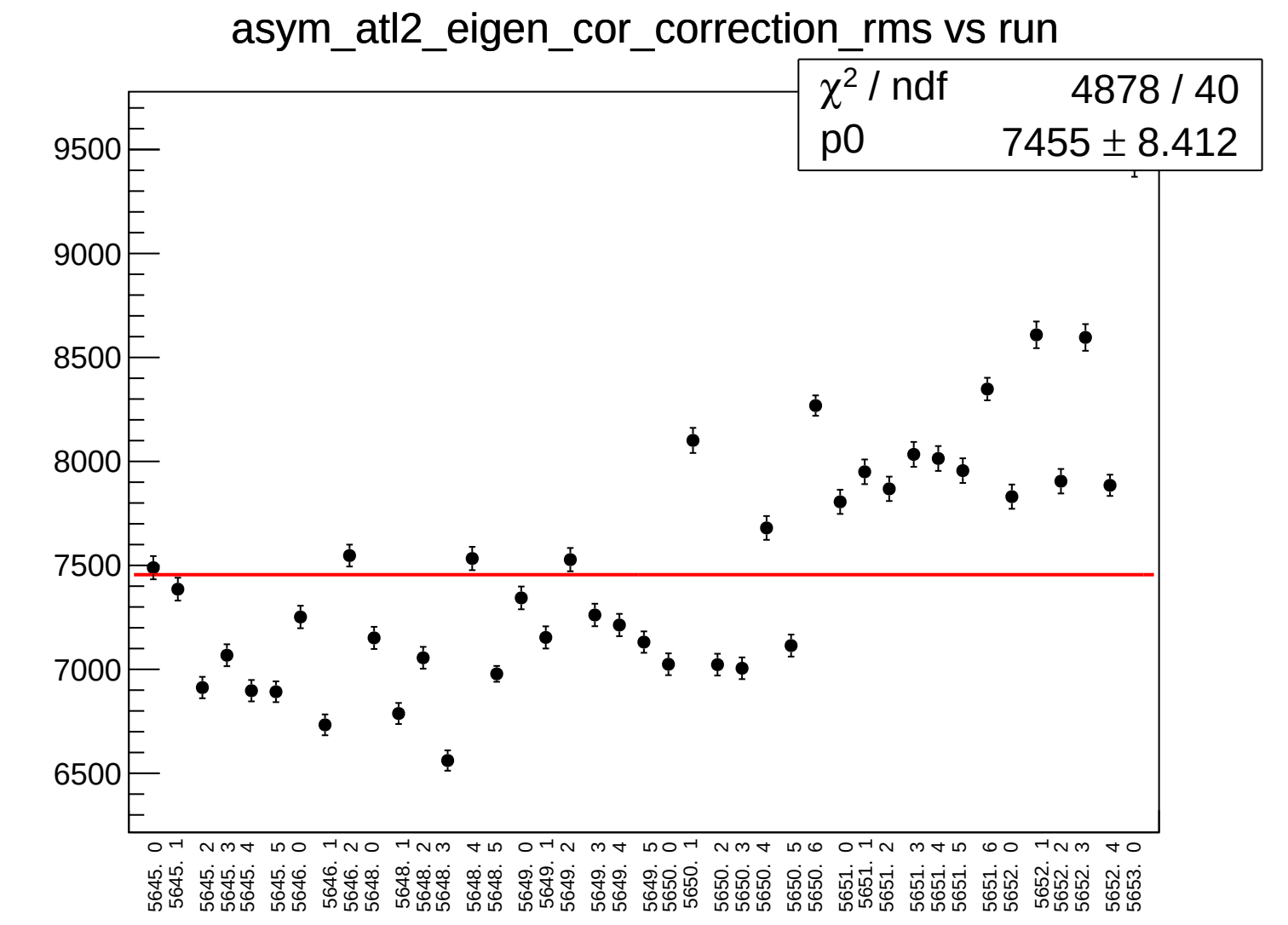

eigen_cor_asym_atl2_mean vs run
χ² / ndf 38.31 / 40
p0 4994 ± 2879
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 126.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

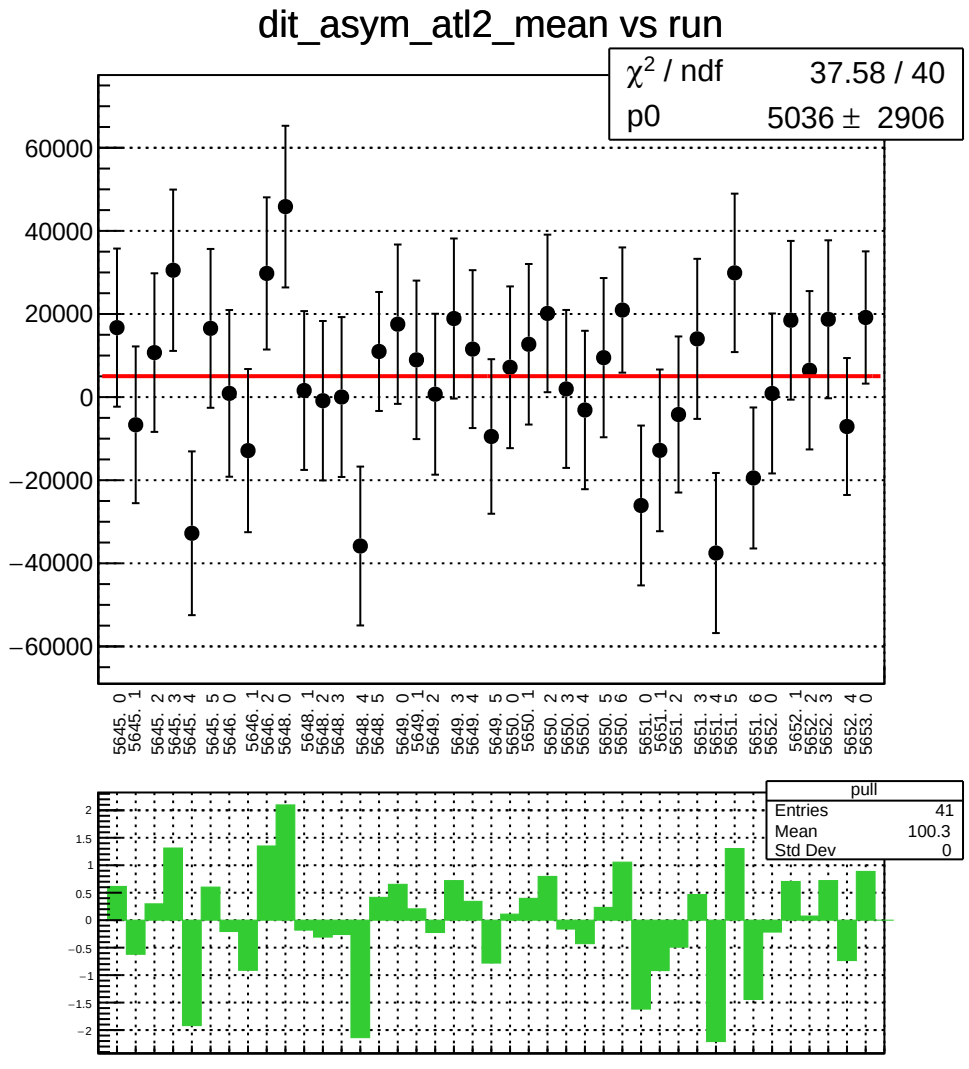

pull1D
Entries 41
Mean −0.00878
Std Dev 0.9666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

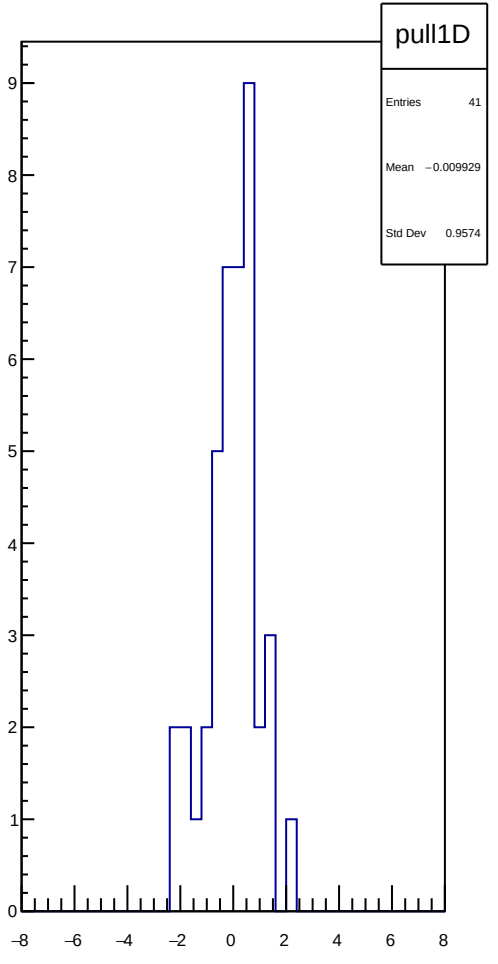

eigen_cor_asym_atl2_rms vs run
χ² / ndf 127.4 / 40
p0 1809 ± 2.035
1900
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

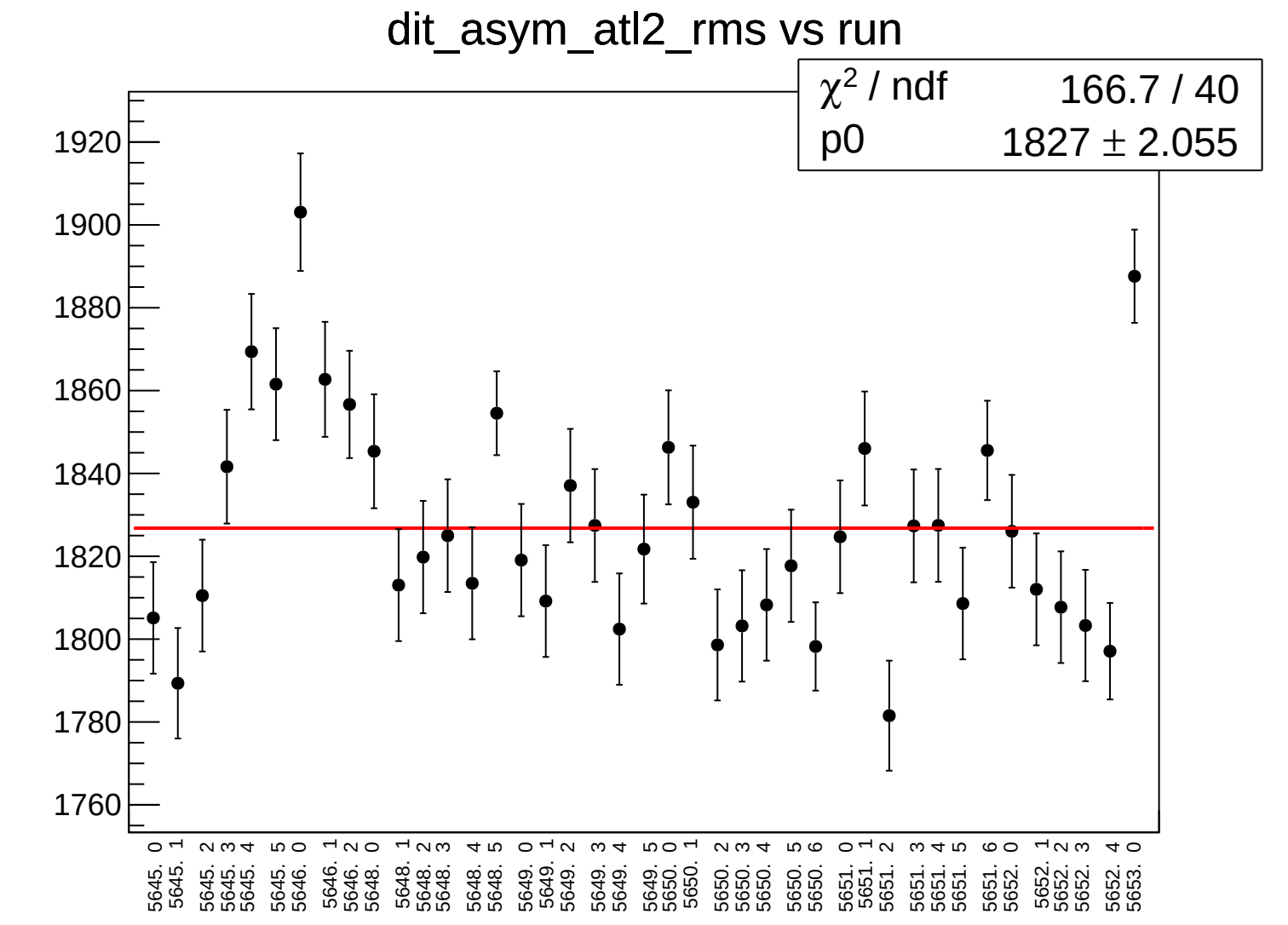

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.39 / 40
p0 −6855 ± 1.19e+04
pull
Entries 41
Mean 8.05
Std Dev 14.64

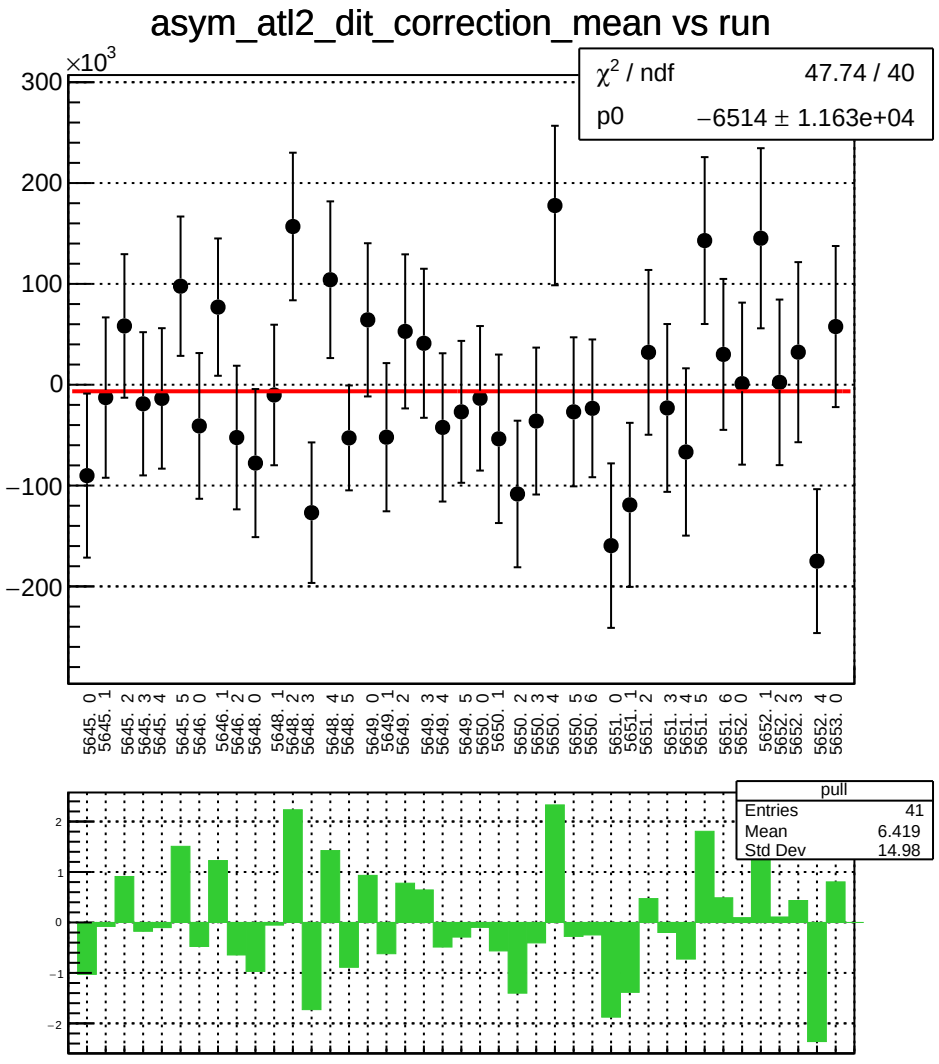

pull1D
Entries 41
Mean 0.02191
Std Dev 1.075

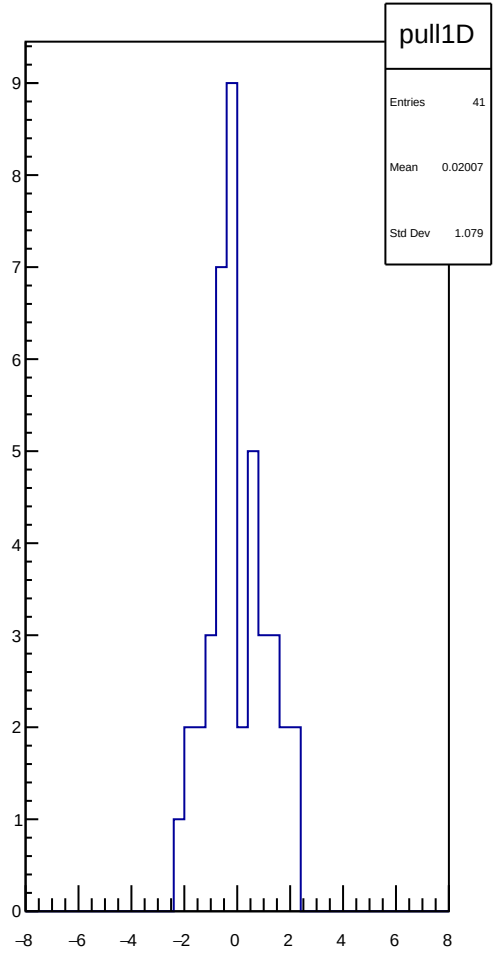

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4878 / 40
p0 7455 ± 8.412
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

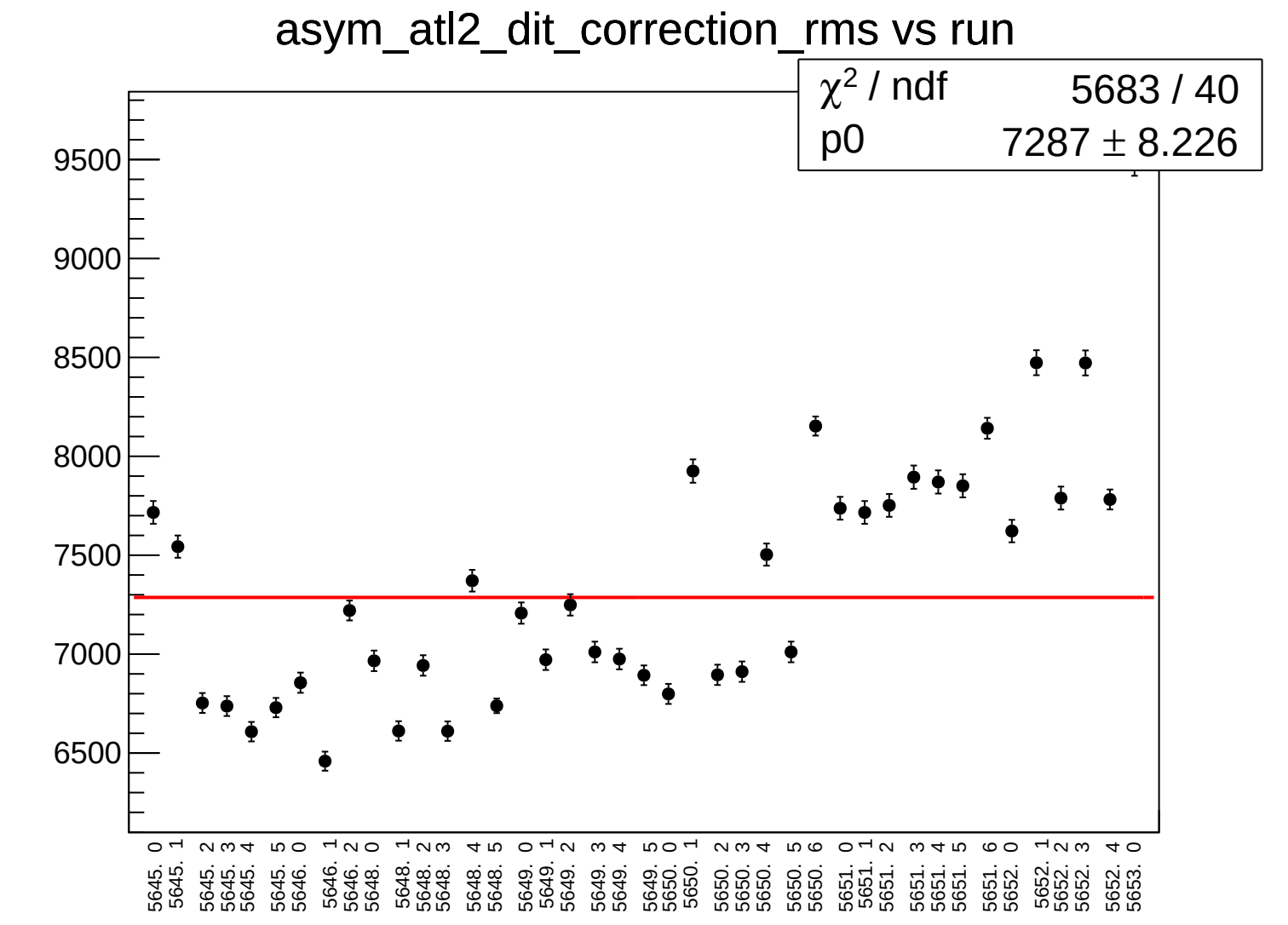

dit_asym_atl2_mean vs run
χ² / ndf 37.58 / 40
p0 5036 ± 2906
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 100.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

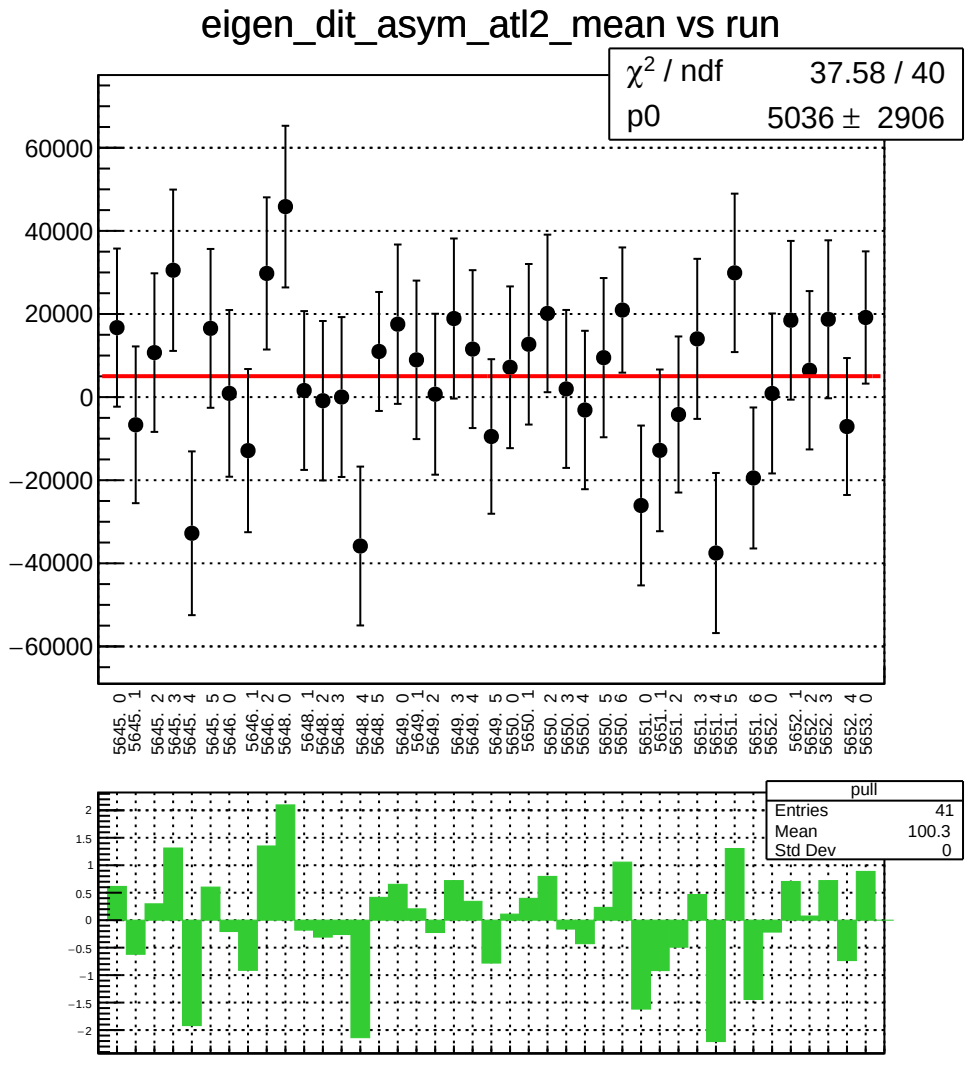

pull1D
Entries 41
Mean −0.009929
Std Dev 0.9574
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

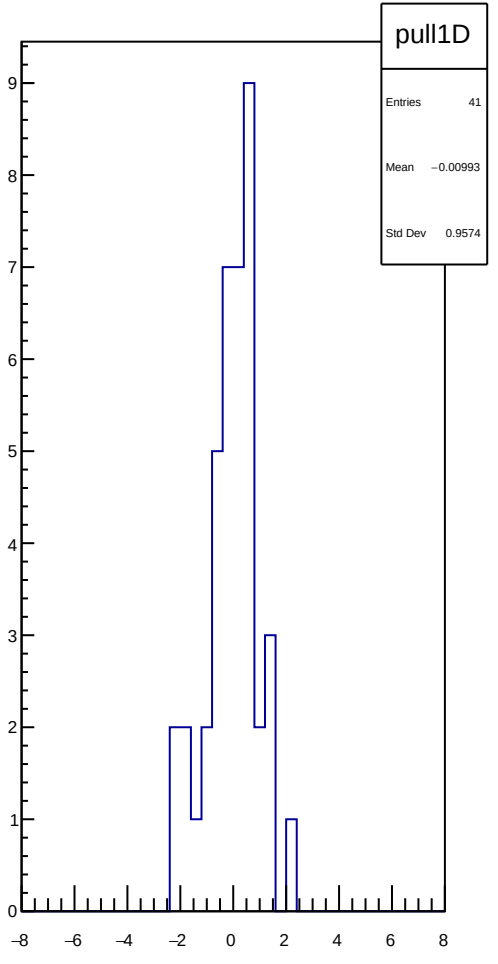

dit_asym_atl2_rms vs run
χ² / ndf 166.7 / 40
p0 1827 ± 2.055
1920
1900
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

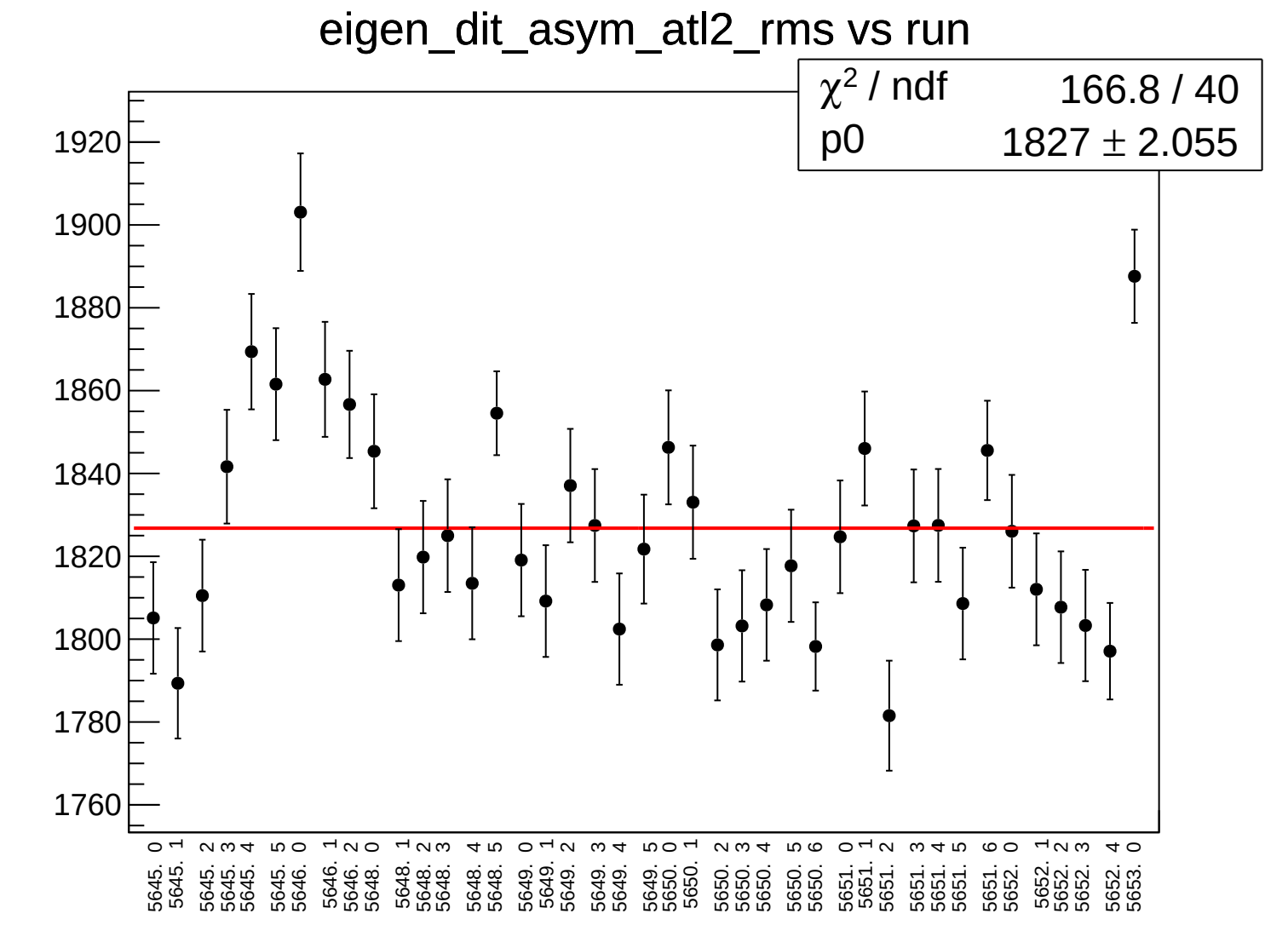

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 47.74 / 40
p0 −6514 ± 1.163e+04
300
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 6.419
Std Dev 14.98
2
1
0
−1
−2

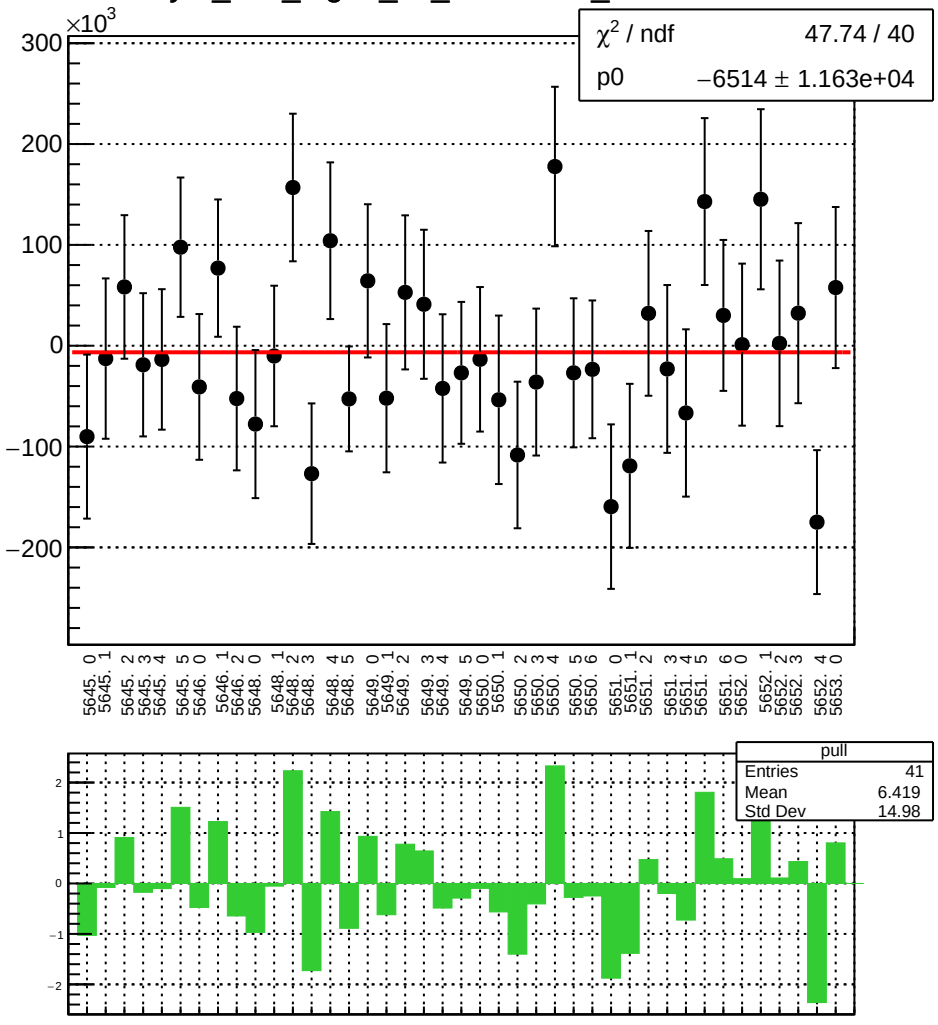

pull1D
Entries 41
Mean 0.02007
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

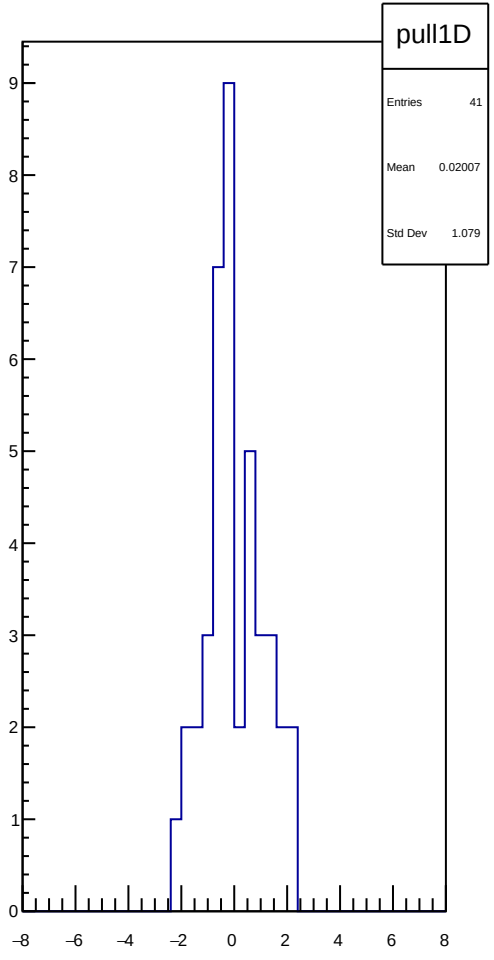

asym_atl2_dit_correction_rms vs run
χ² / ndf 5683 / 40
p0 7287 ± 8.226
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

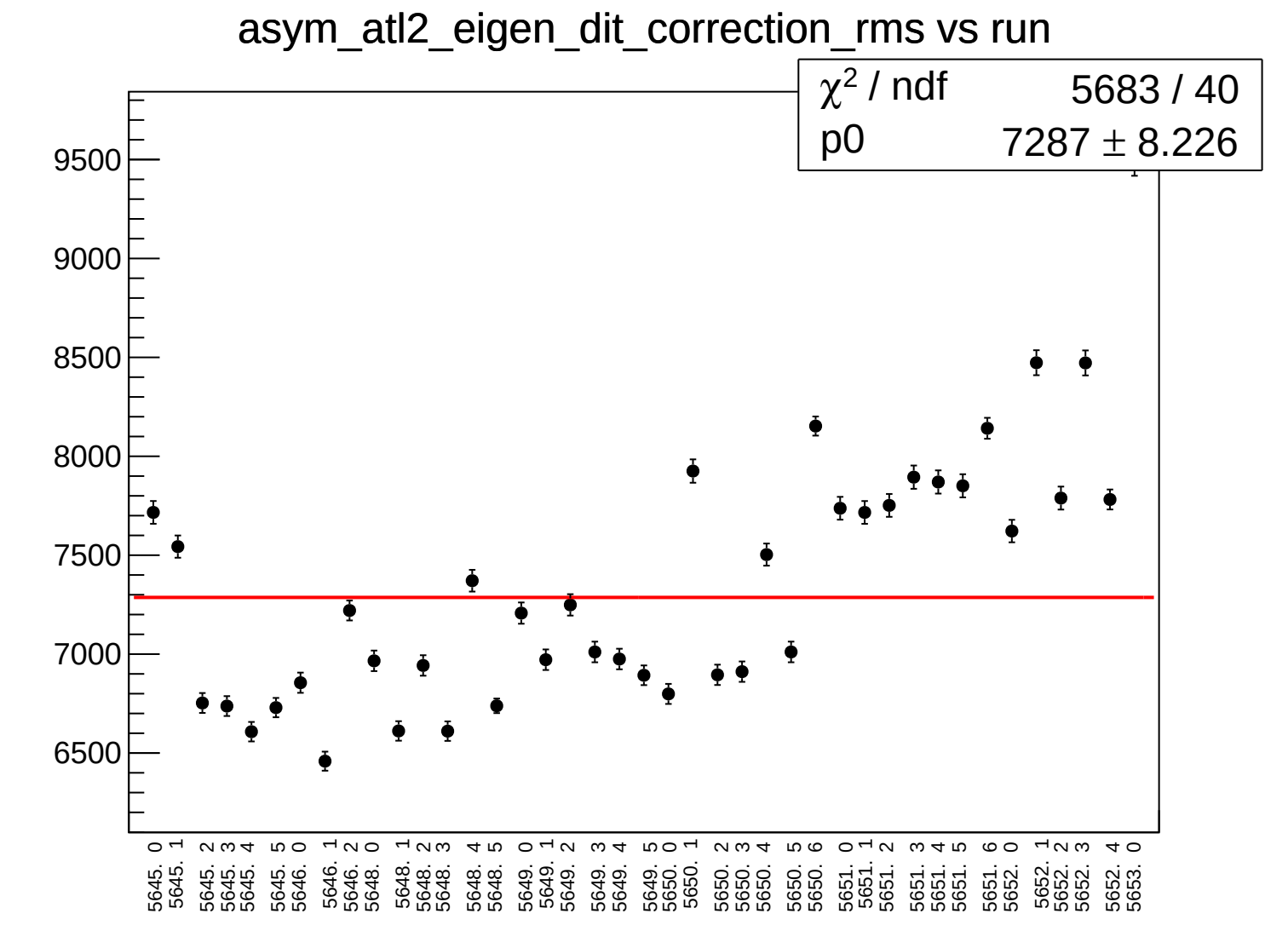

eigen_dit_asym_atl2_mean vs run
χ² / ndf 37.58 / 40
p0 5036 ± 2906
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 100.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

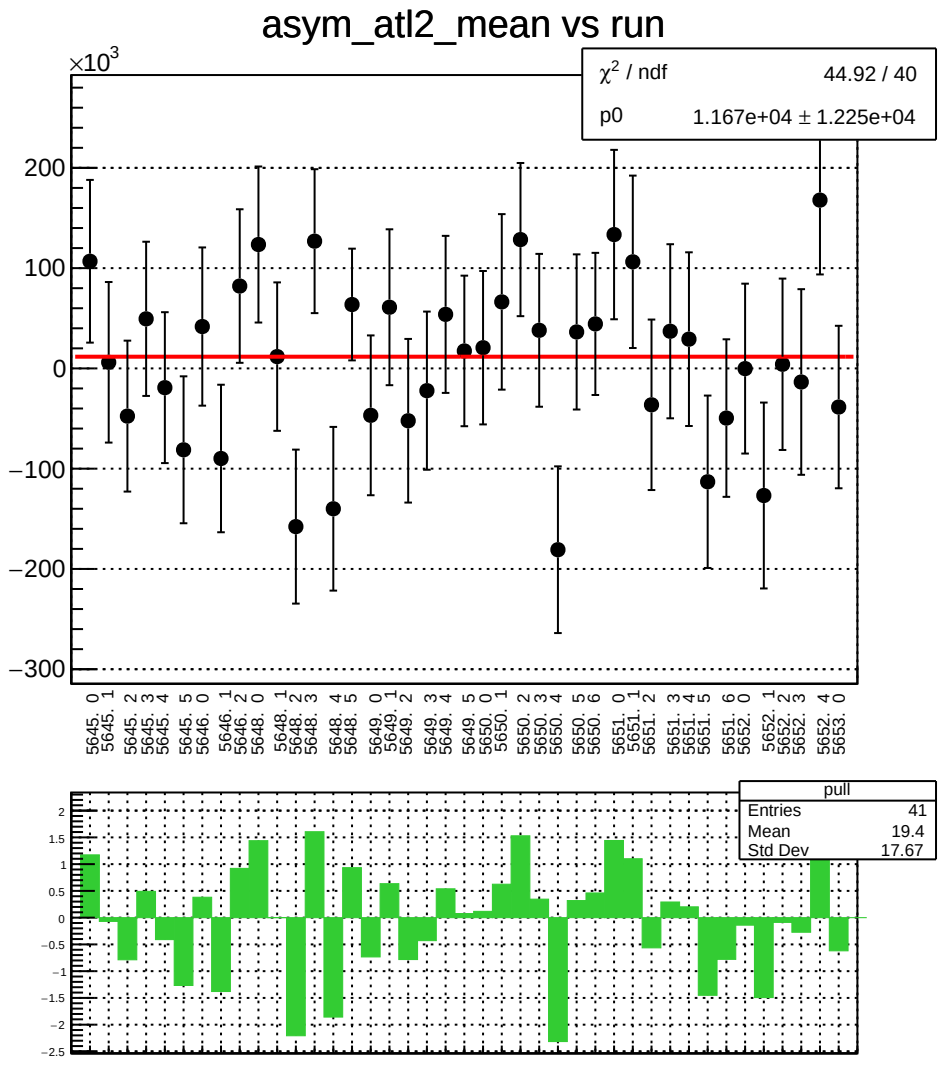

pull1D
Entries 41
Mean −0.00993
Std Dev 0.9574
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

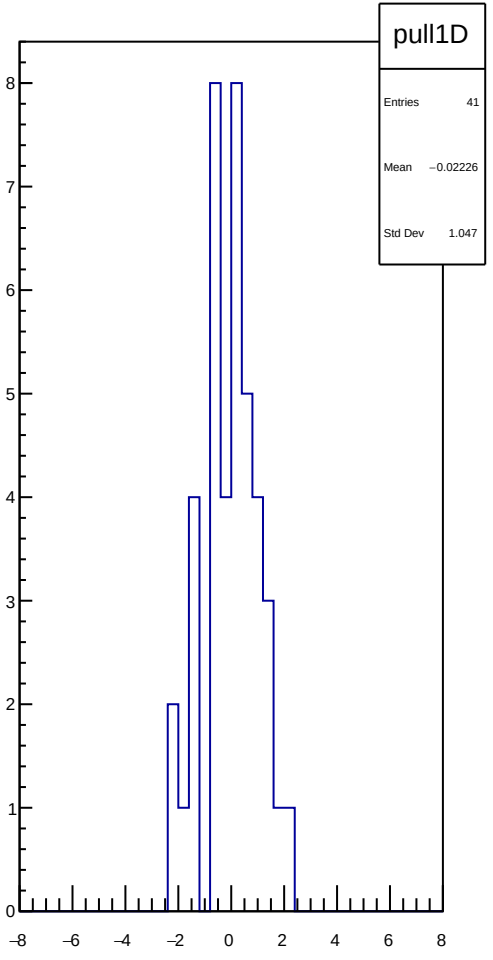

eigen_dit_asym_atl2_rms vs run
χ² / ndf 166.8 / 40
p0 1827 ± 2.055
1920
1900
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

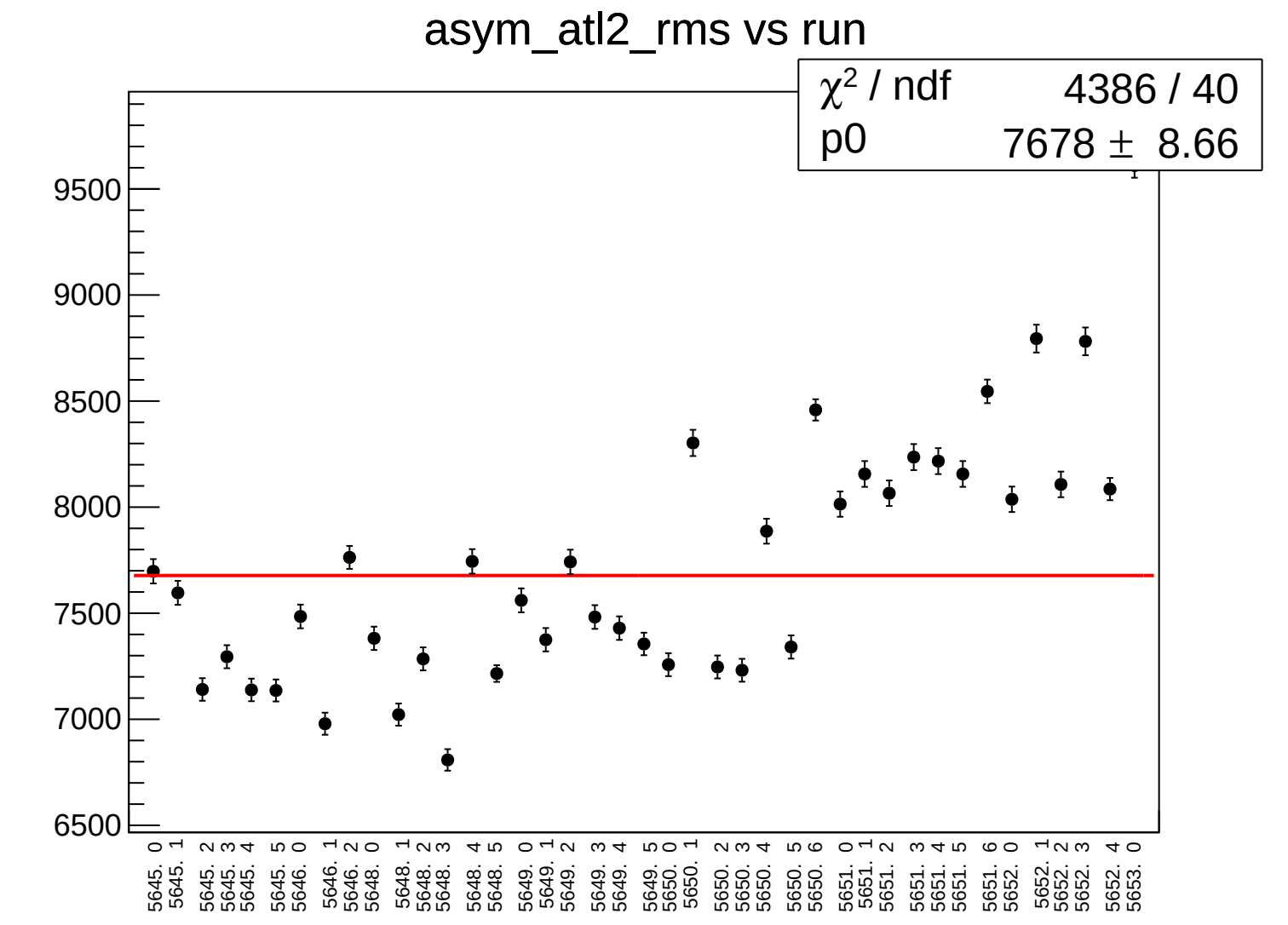

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.74 / 40
p0 −6514 ± 1.163e+04
pull
Entries 41
Mean 6.419
Std Dev 14.98

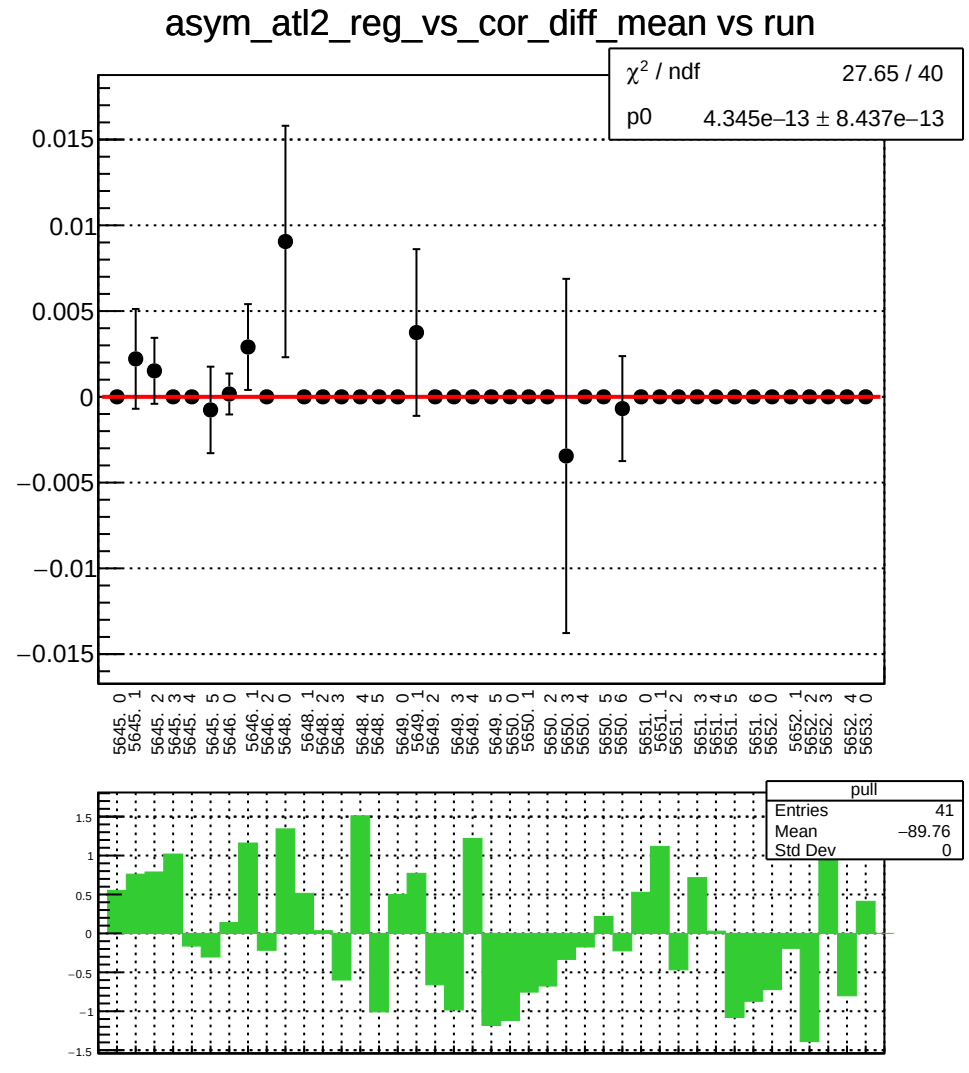

pull1D
Entries 41
Mean 0.02007
Std Dev 1.079

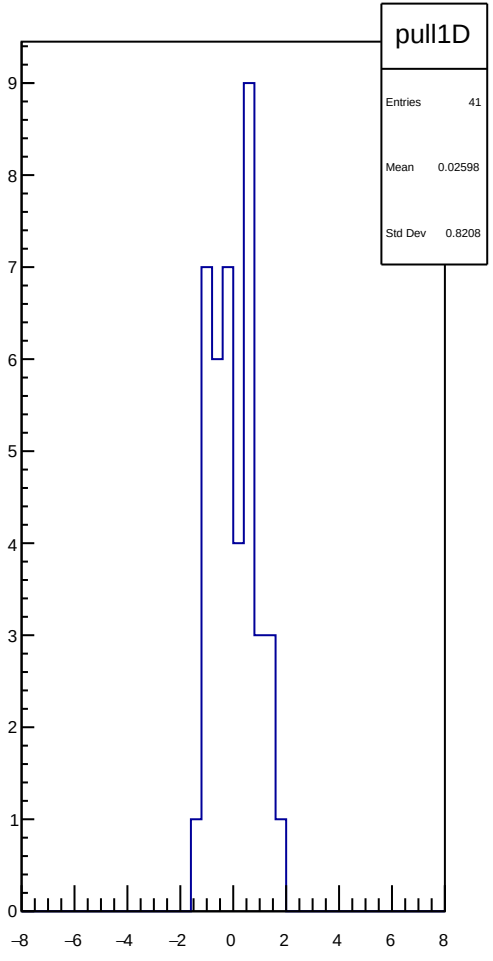

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5683 / 40
p0 7287 ± 8.226
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

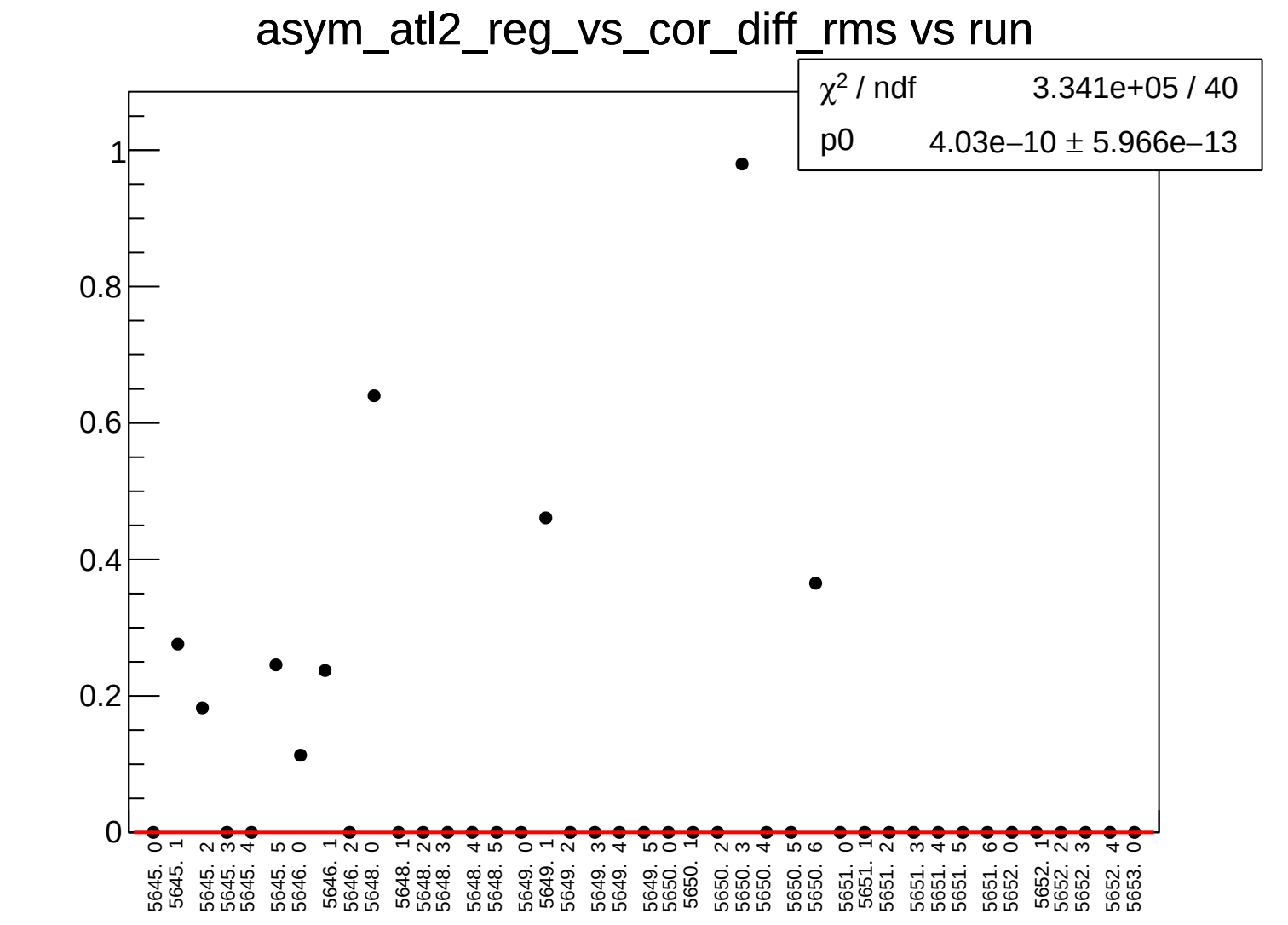

asym_atl2_mean vs run
×10^3
χ² / ndf 44.92 / 40
p0 1.167e+04 ± 1.225e+04
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 19.4
Std Dev 17.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

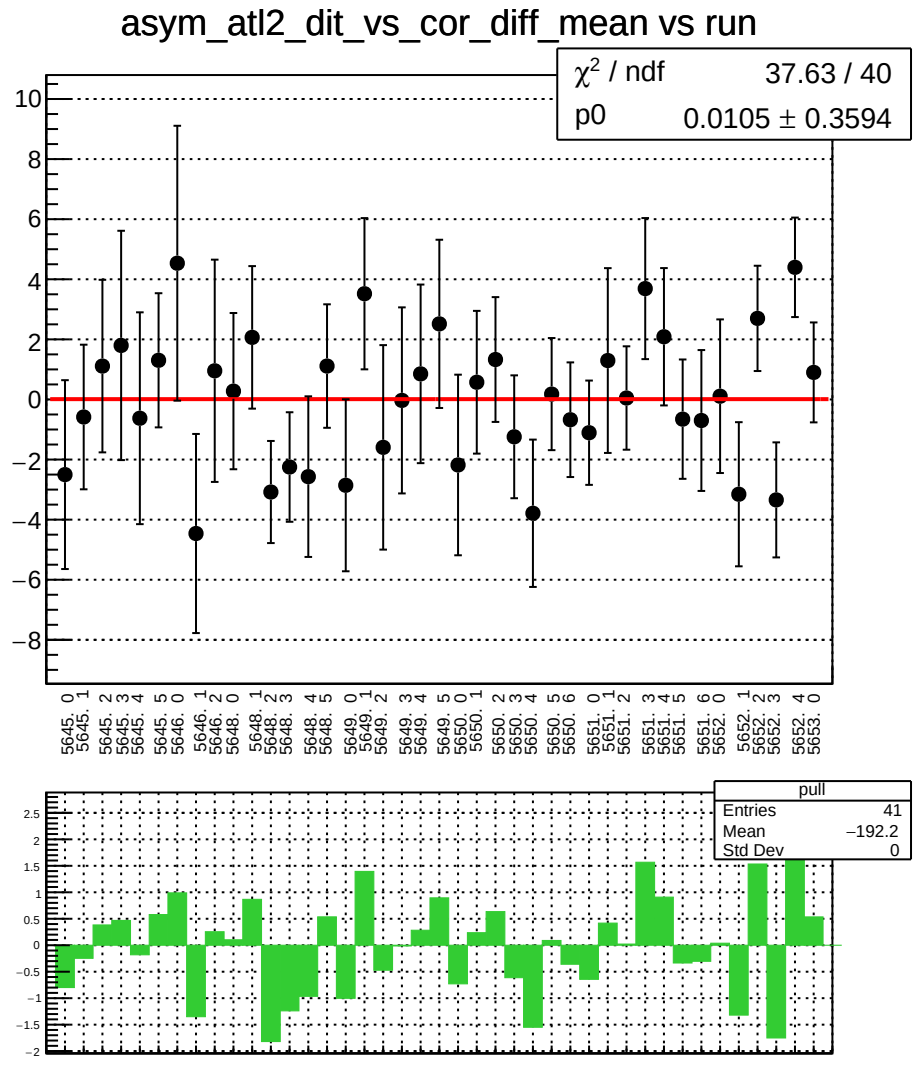

pull1D
Entries 41
Mean −0.02226
Std Dev 1.047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

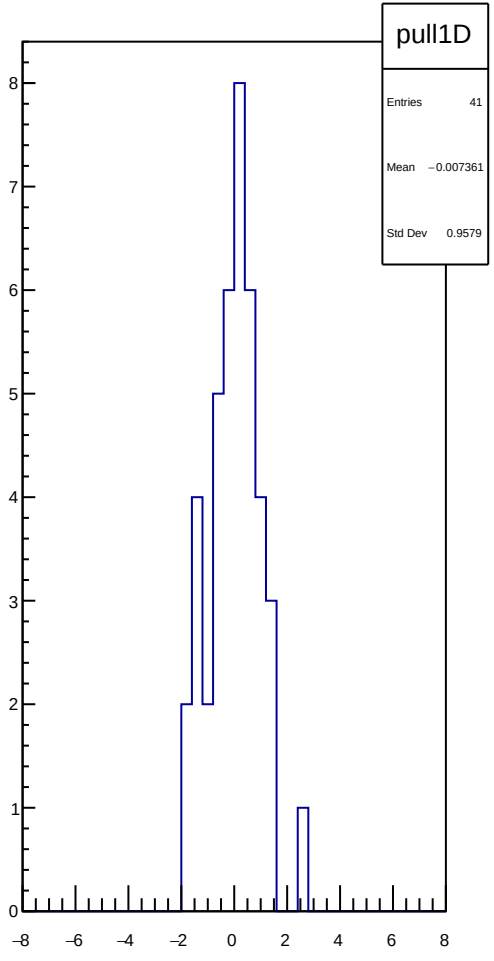

asym_atl2_rms vs run
χ² / ndf 4386 / 40
p0 7678 ± 8.66
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

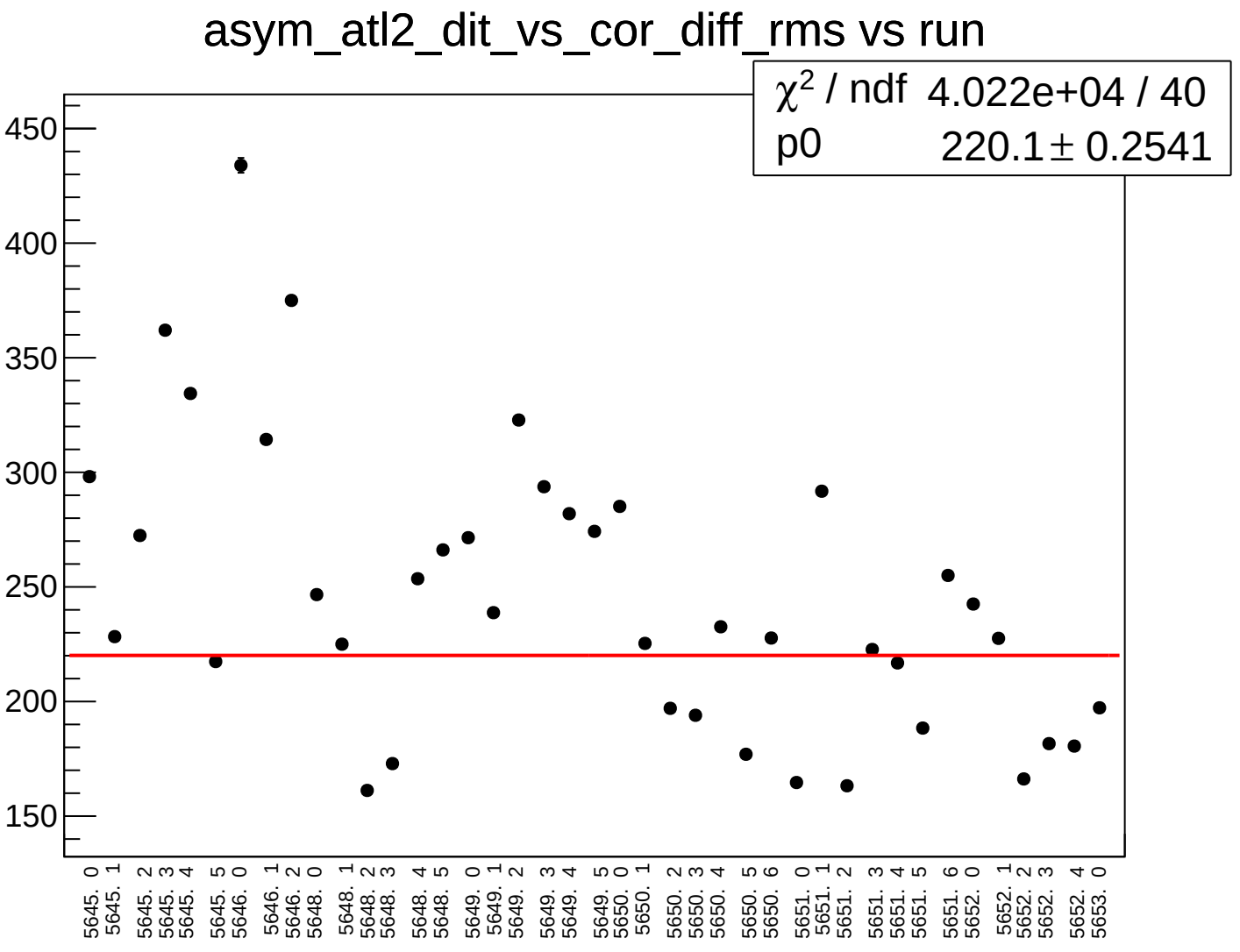

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 27.65 / 40
p0 4.345e−13 ± 8.437e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −89.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.02598
Std Dev 0.8208
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

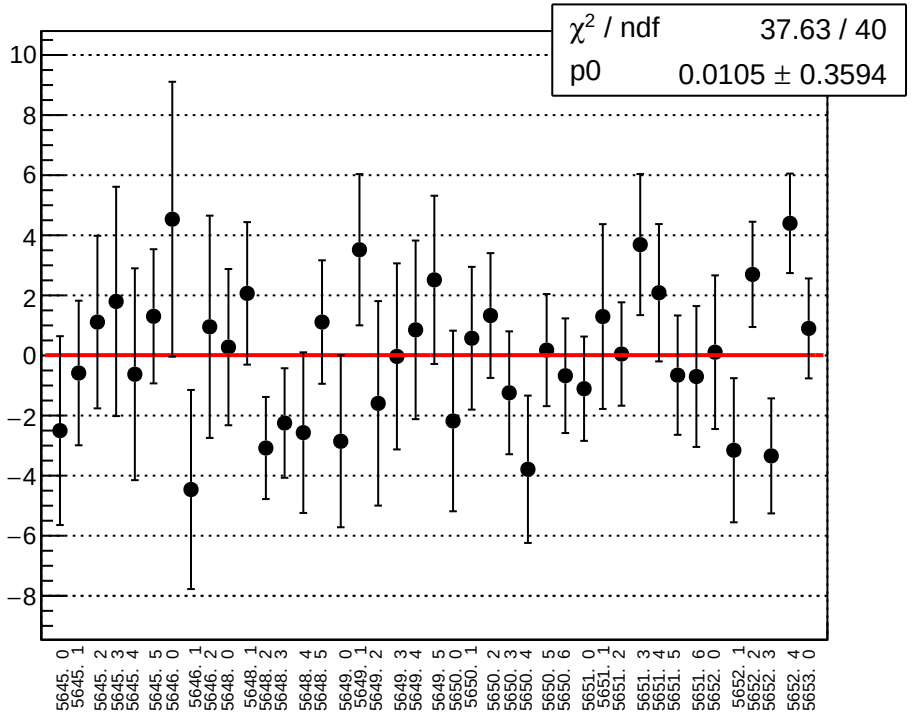

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 3.341e+05 / 40
p0 4.03e−10 ± 5.966e−13
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

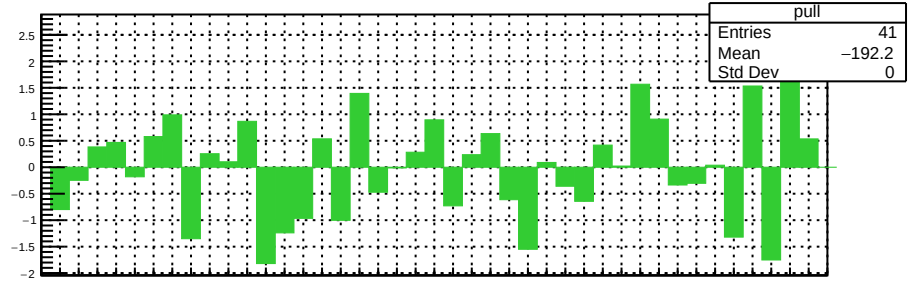

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 37.63 / 40
p0 0.0105 ± 0.3594
pull
Entries 41
Mean −192.2
Std Dev 0

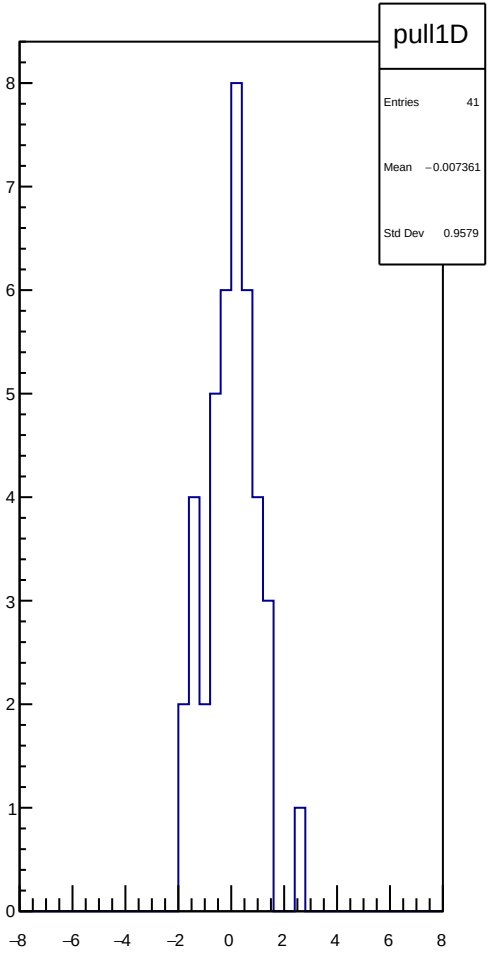

pull1D
Entries 41
Mean −0.007361
Std Dev 0.9579

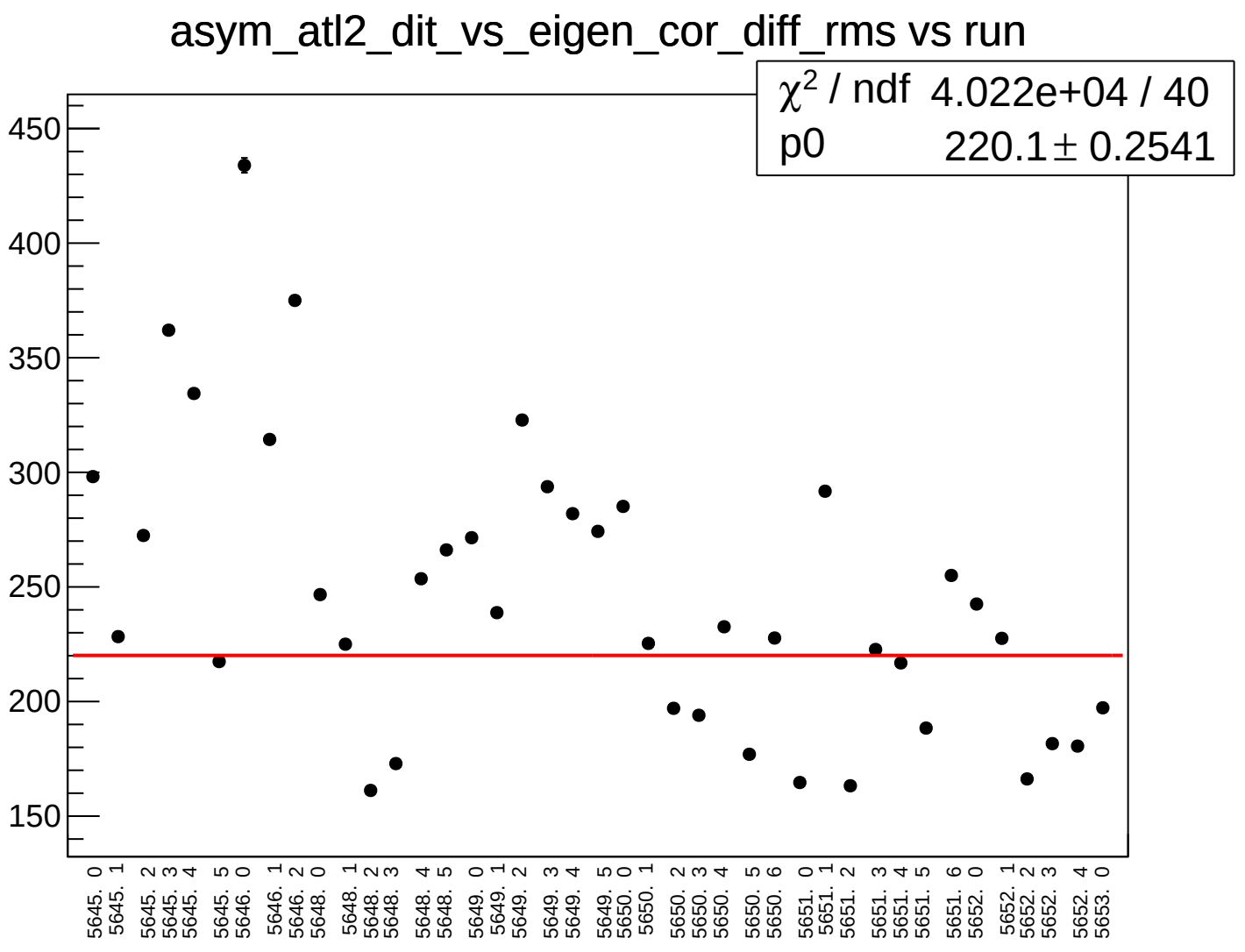

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 40
p0 220.1 ± 0.2541
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

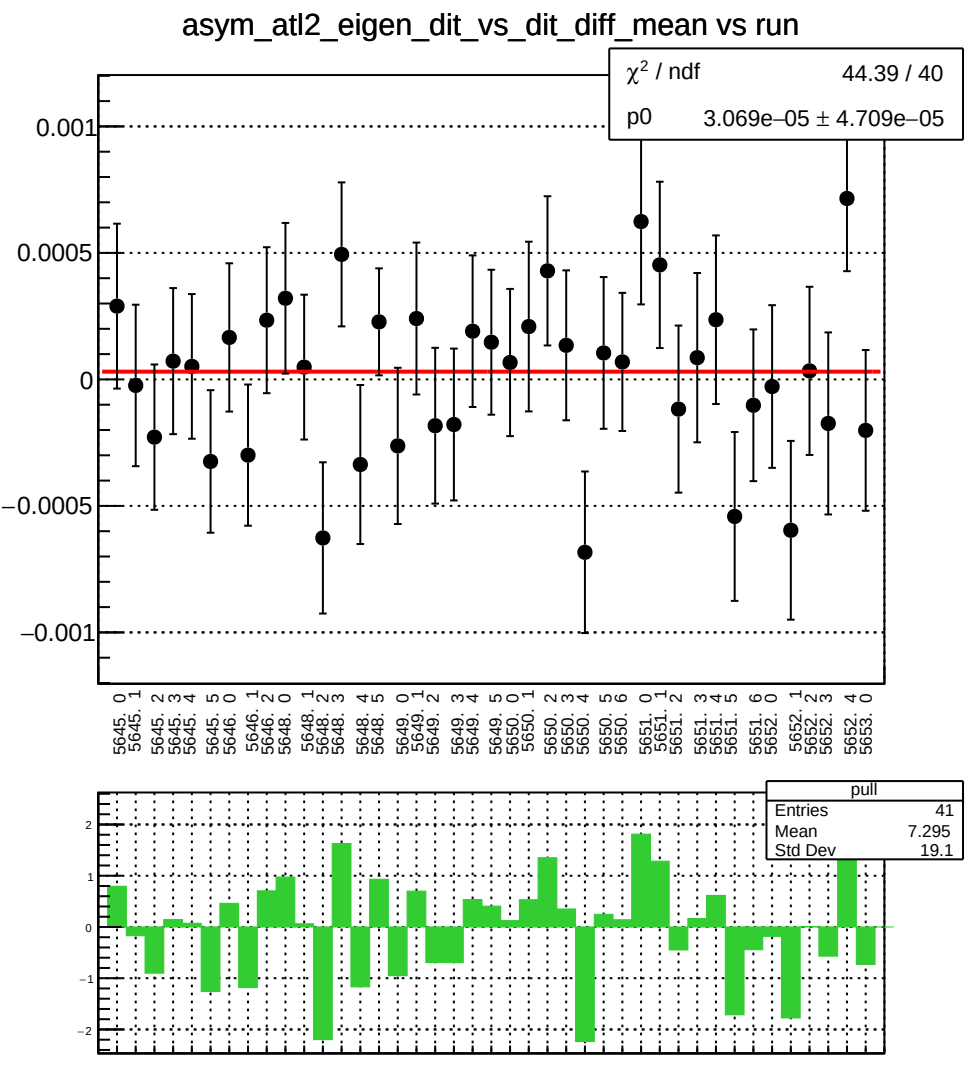
asym_atl2_dit_vs_eigen_cor_diff_mean vs run

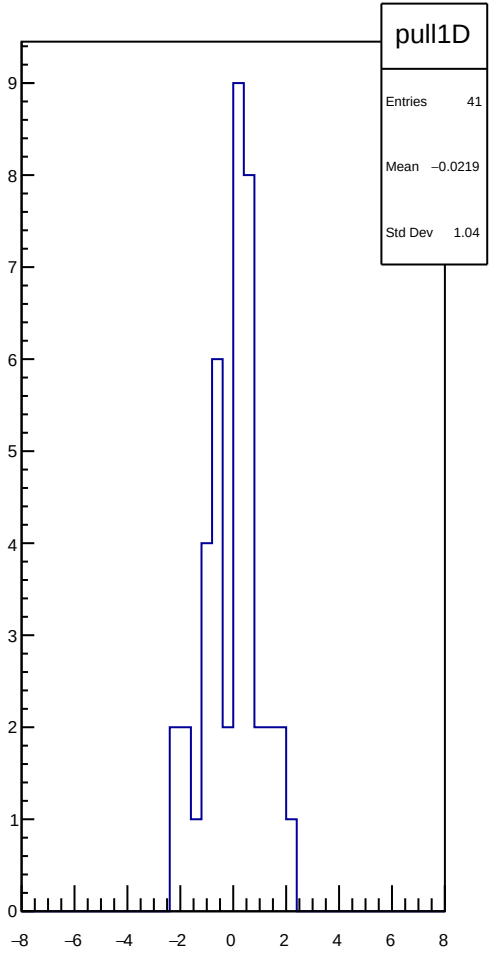


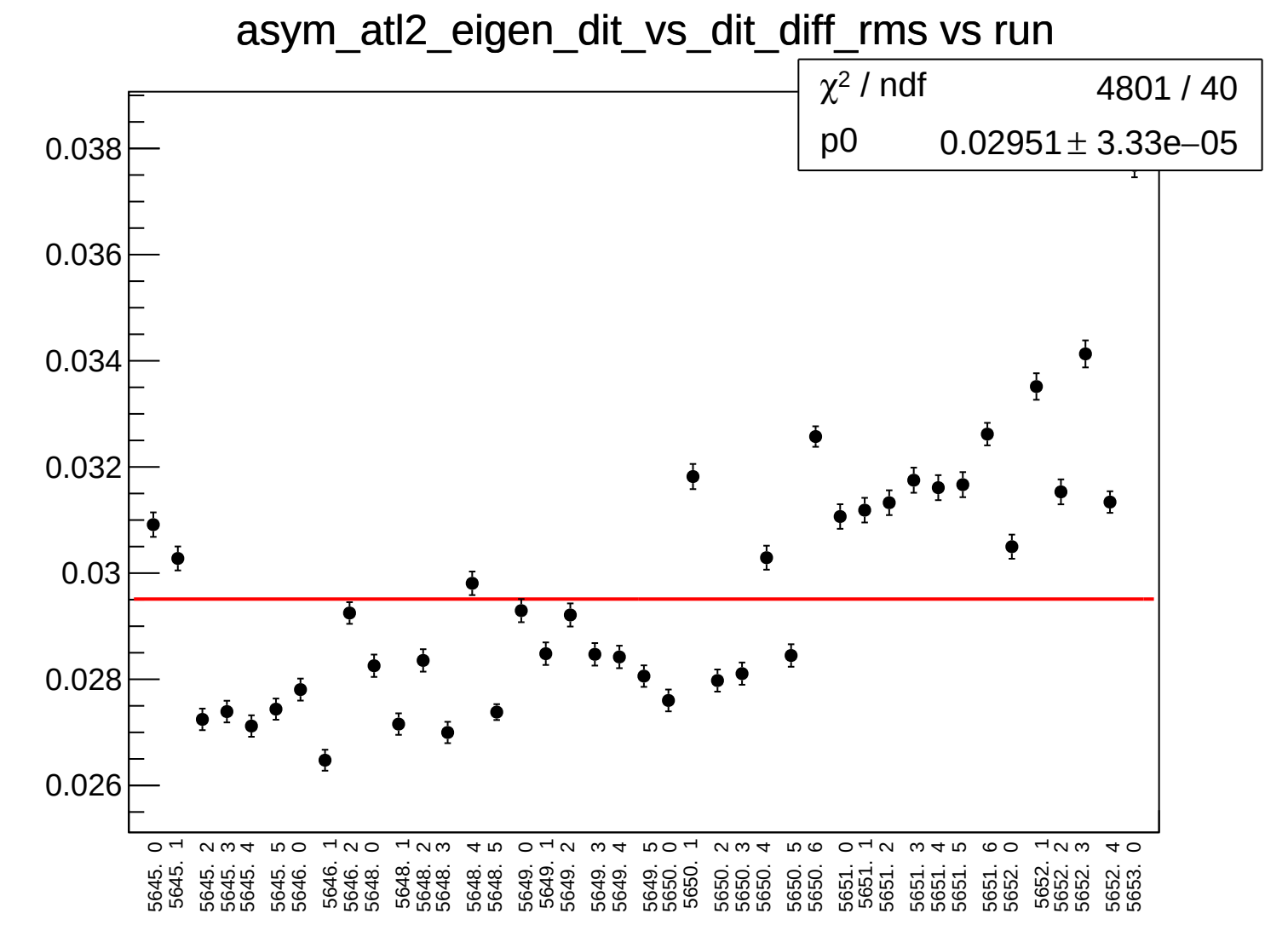


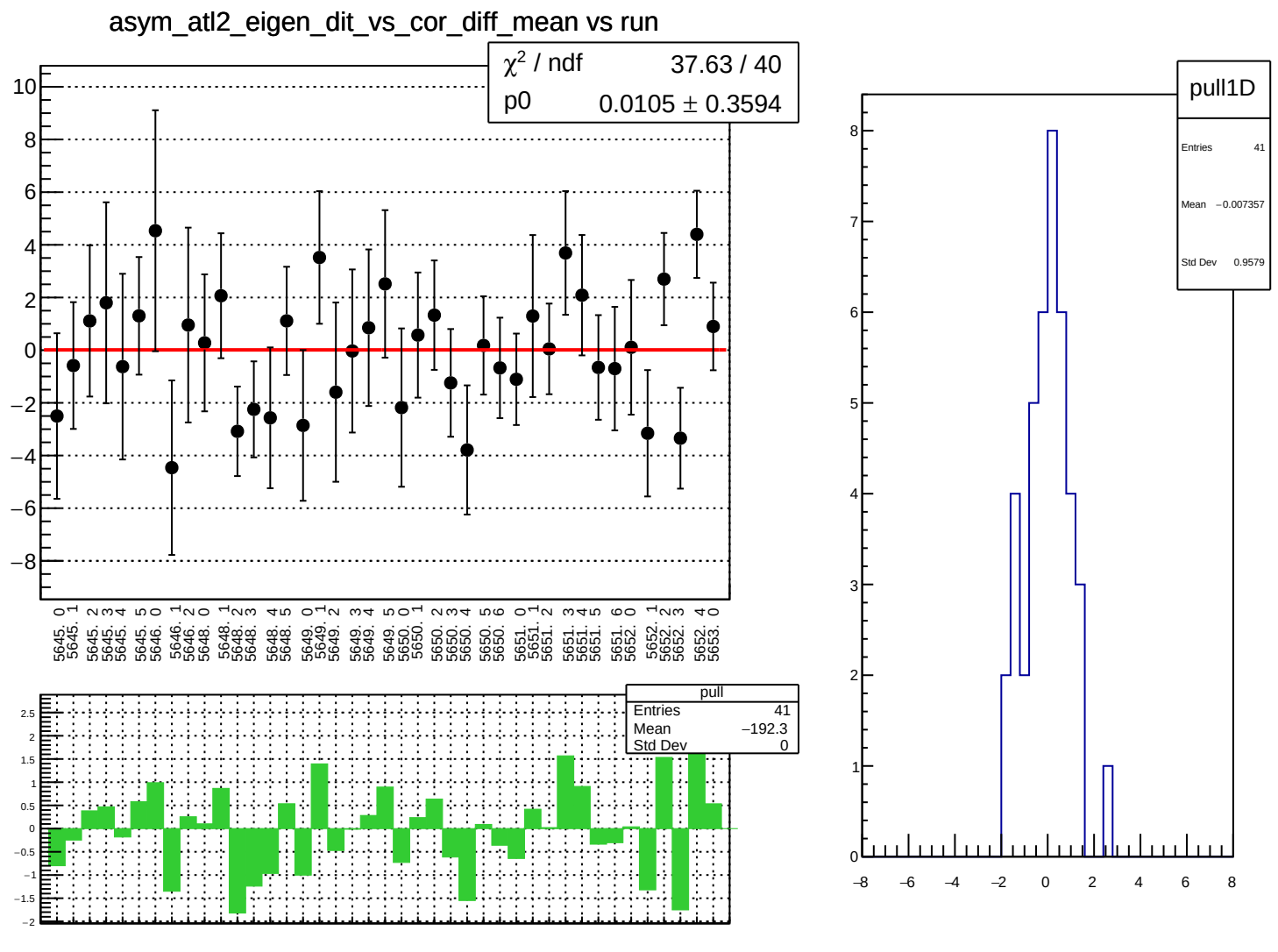


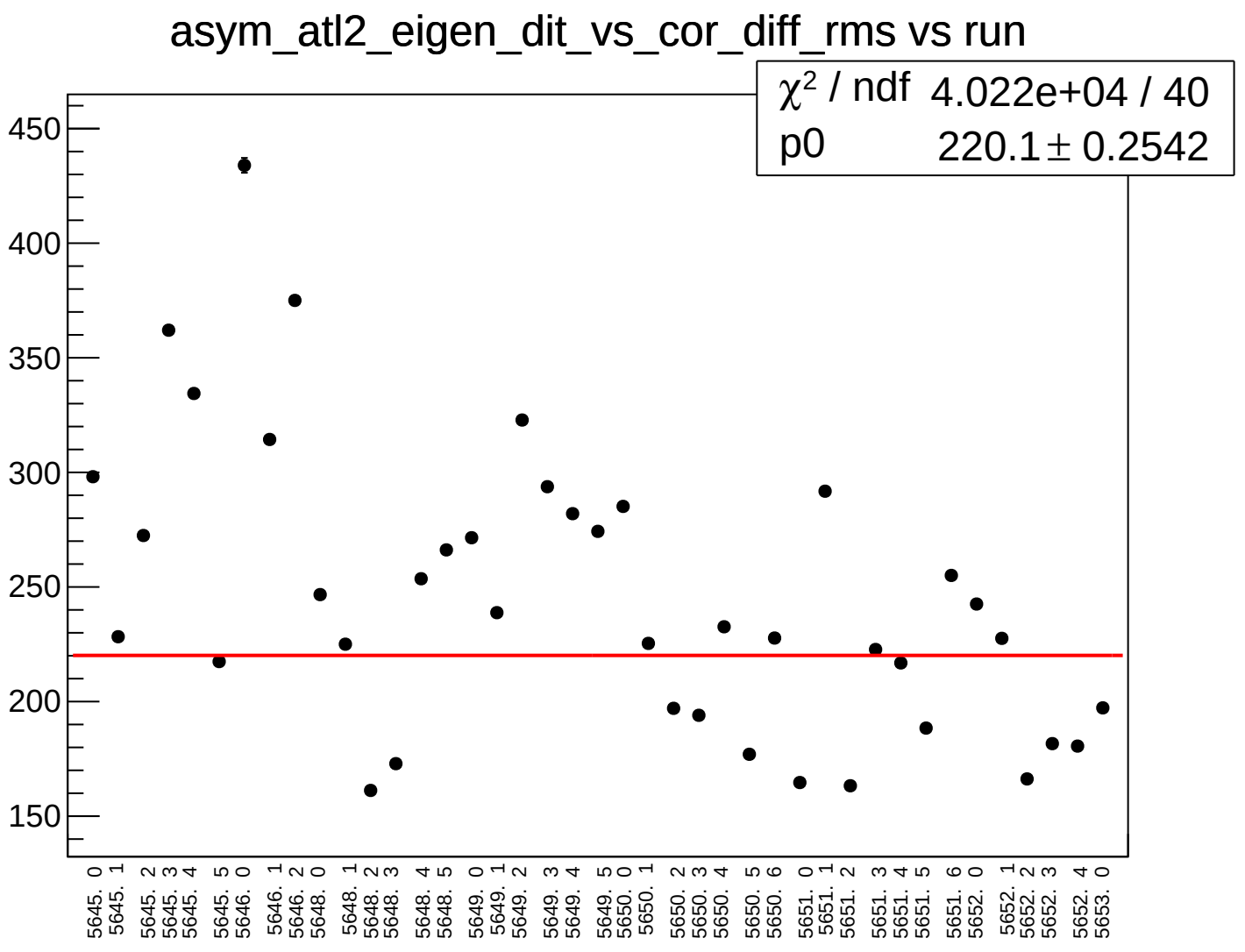

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 40
p0 220.1 ± 0.2541
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

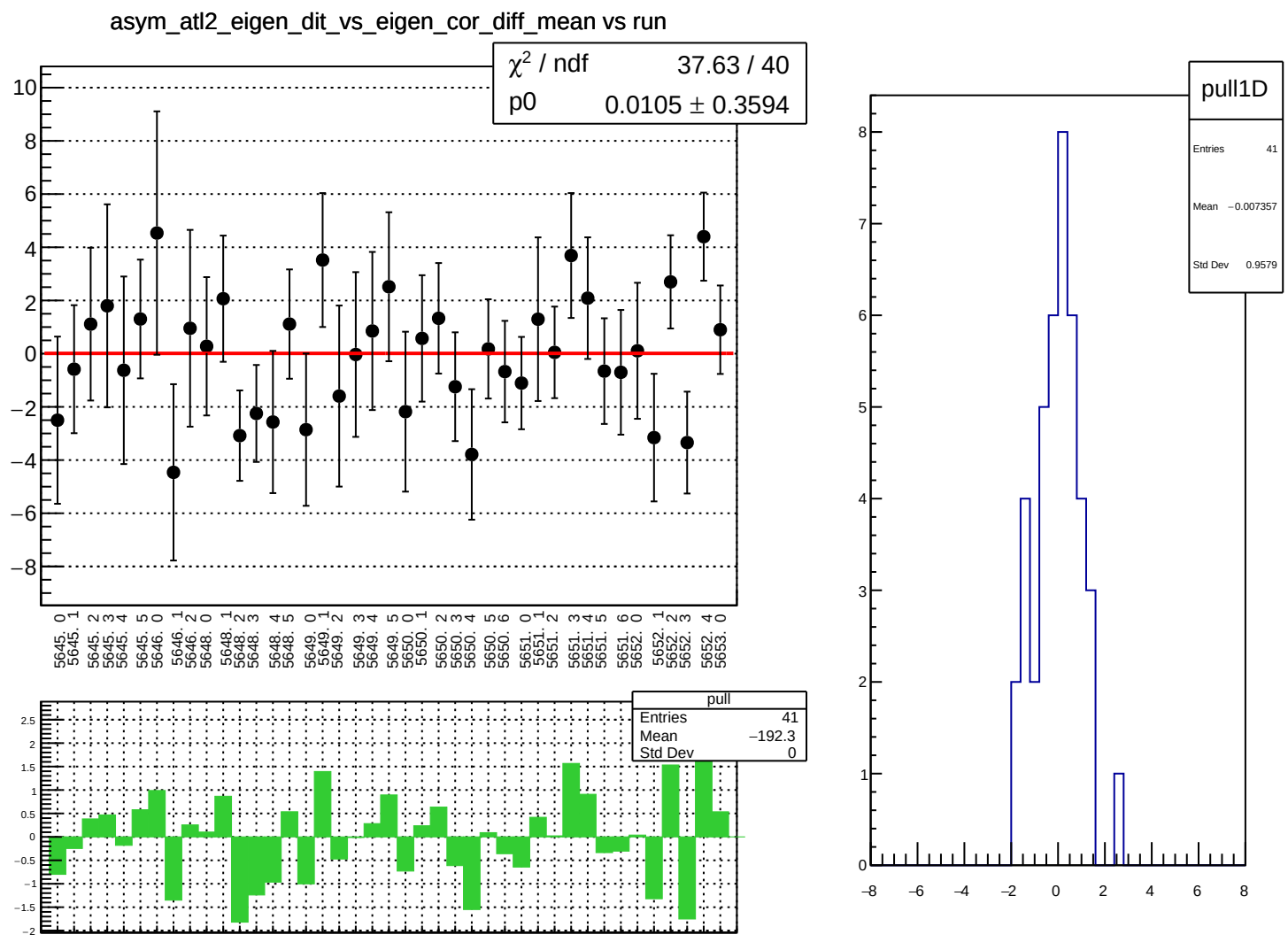

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 44.39 / 40
p0 3.069e−05 ± 4.709e−05
0.001
0.0005
0
−0.0005
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 7.295
Std Dev 19.1
2
1
0
−1
−2

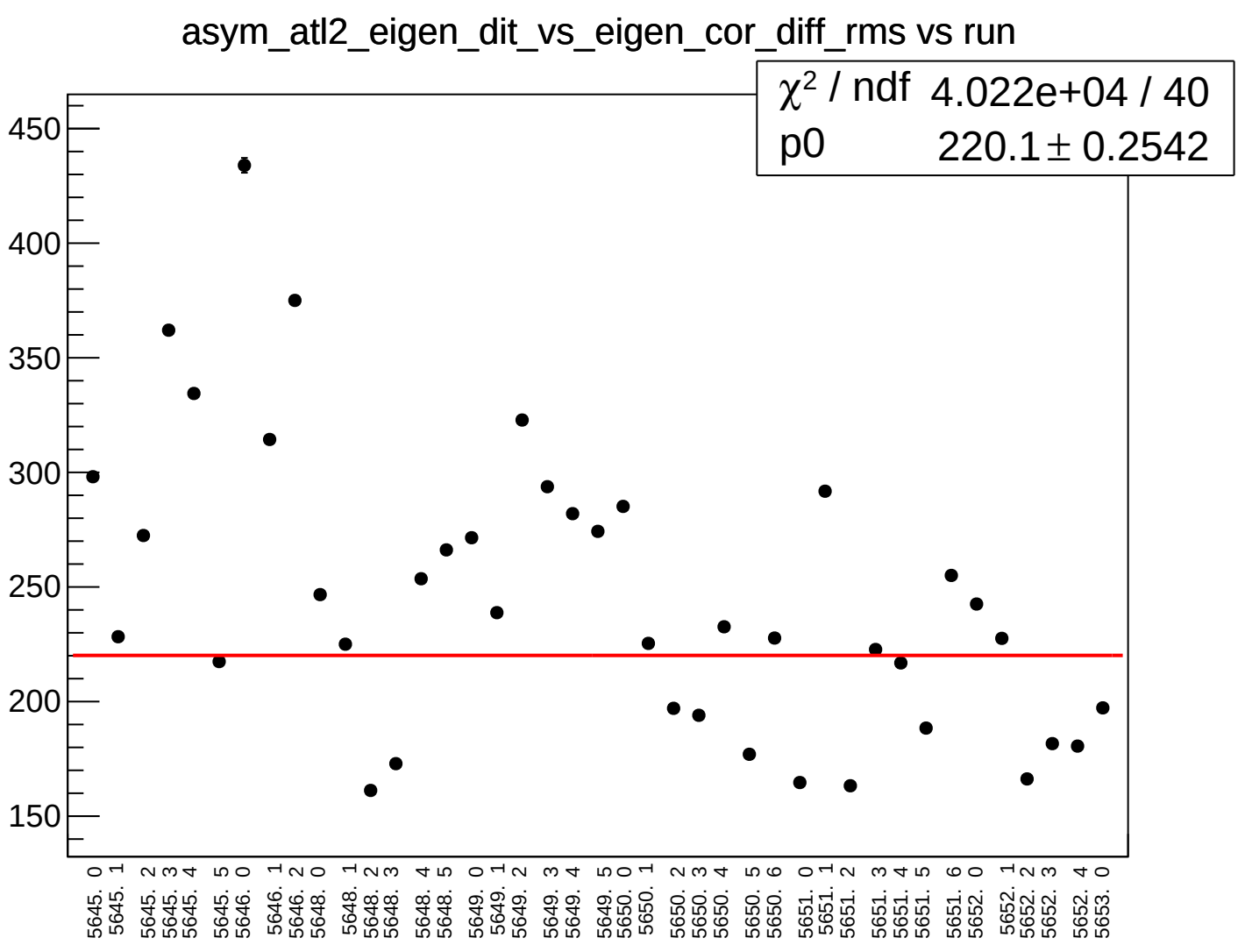

pull1D
Entries 41
Mean −0.0219
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

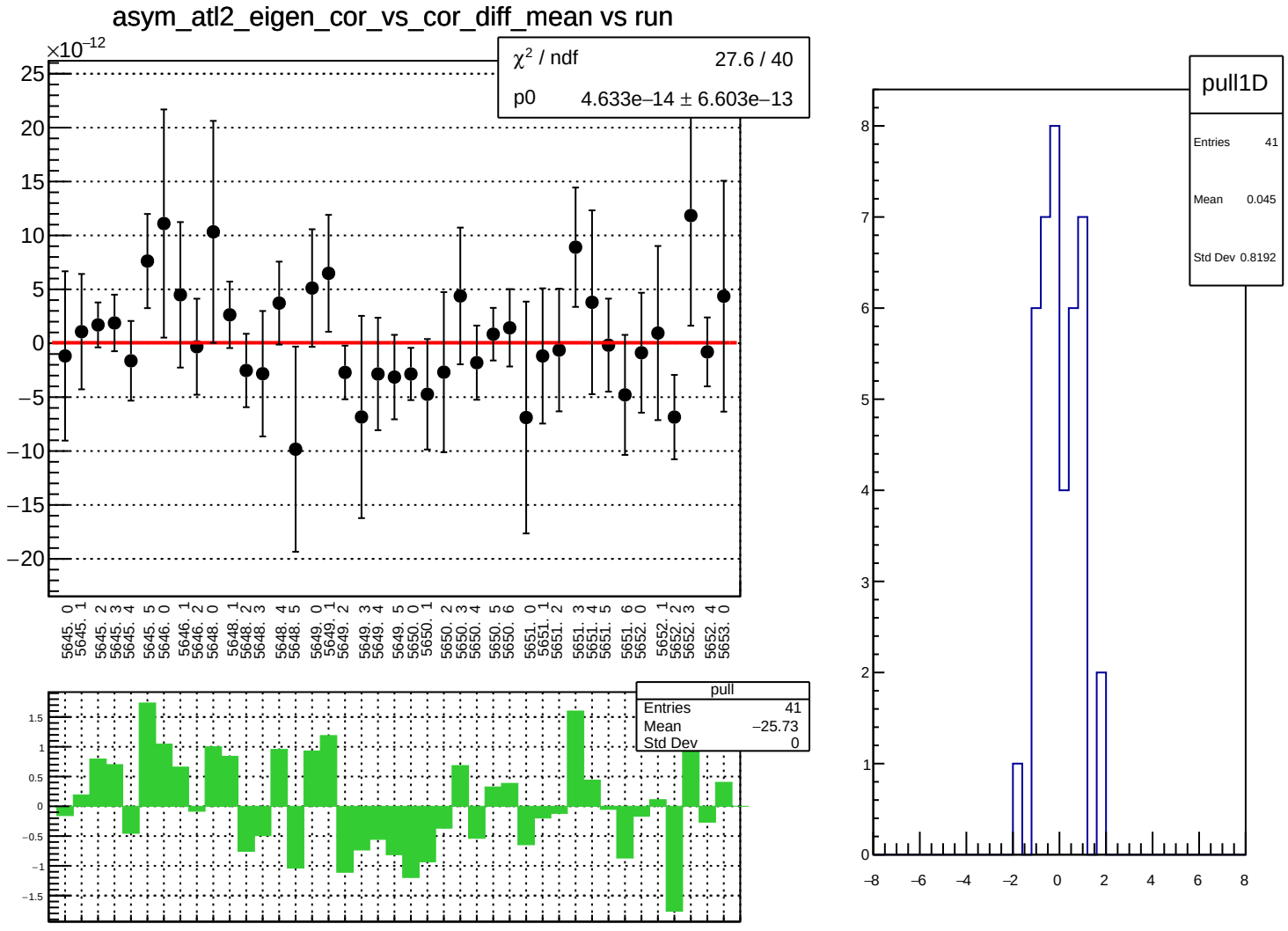

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4801 / 40
p0 0.02951 ± 3.33e–05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

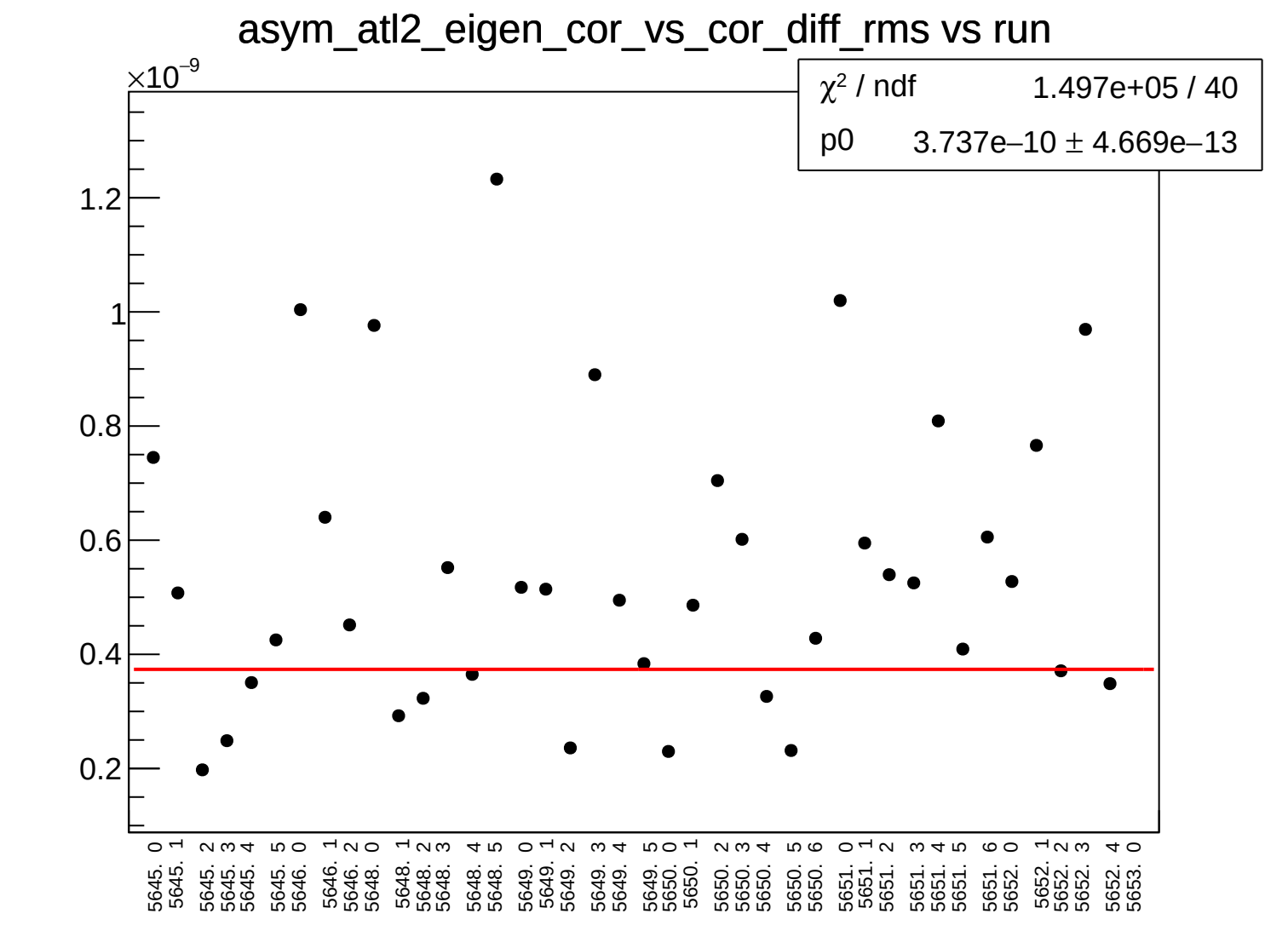

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.63 / 40
p0 0.0105 ± 0.3594
pull
Entries 41
Mean −192.3
Std Dev 0
pull1D
Entries 41
Mean −0.007357
Std Dev 0.9579

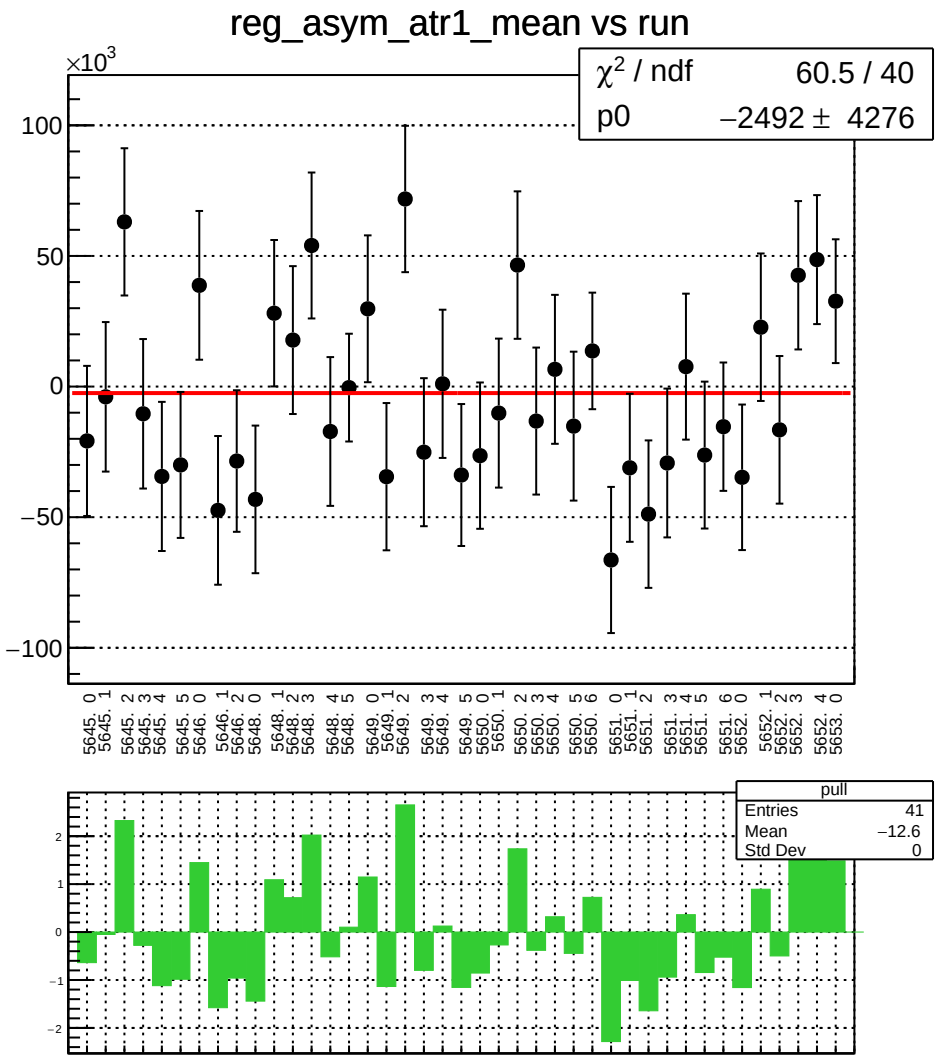

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 40
p0 220.1 ± 0.2542
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

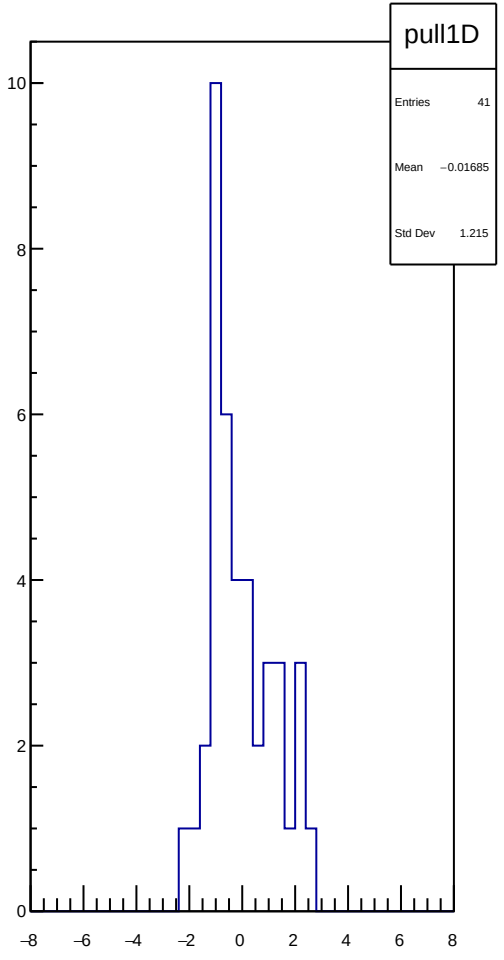

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.63 / 40
p0 0.0105 ± 0.3594
pull
Entries 41
Mean −192.3
Std Dev 0
pull1D
Entries 41
Mean −0.007357
Std Dev 0.9579

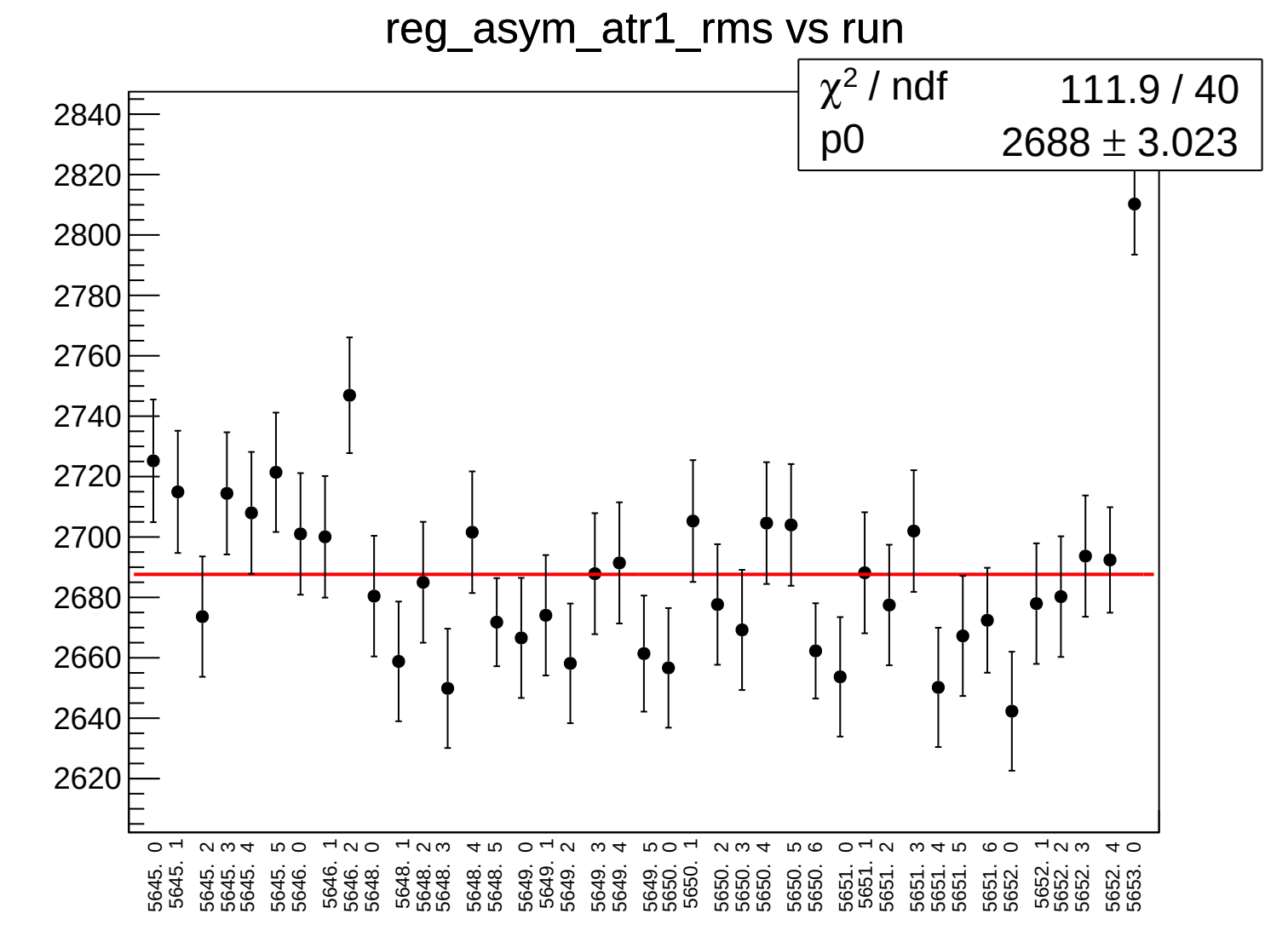

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.022e+04 / 40
p0 220.1 ± 0.2542
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

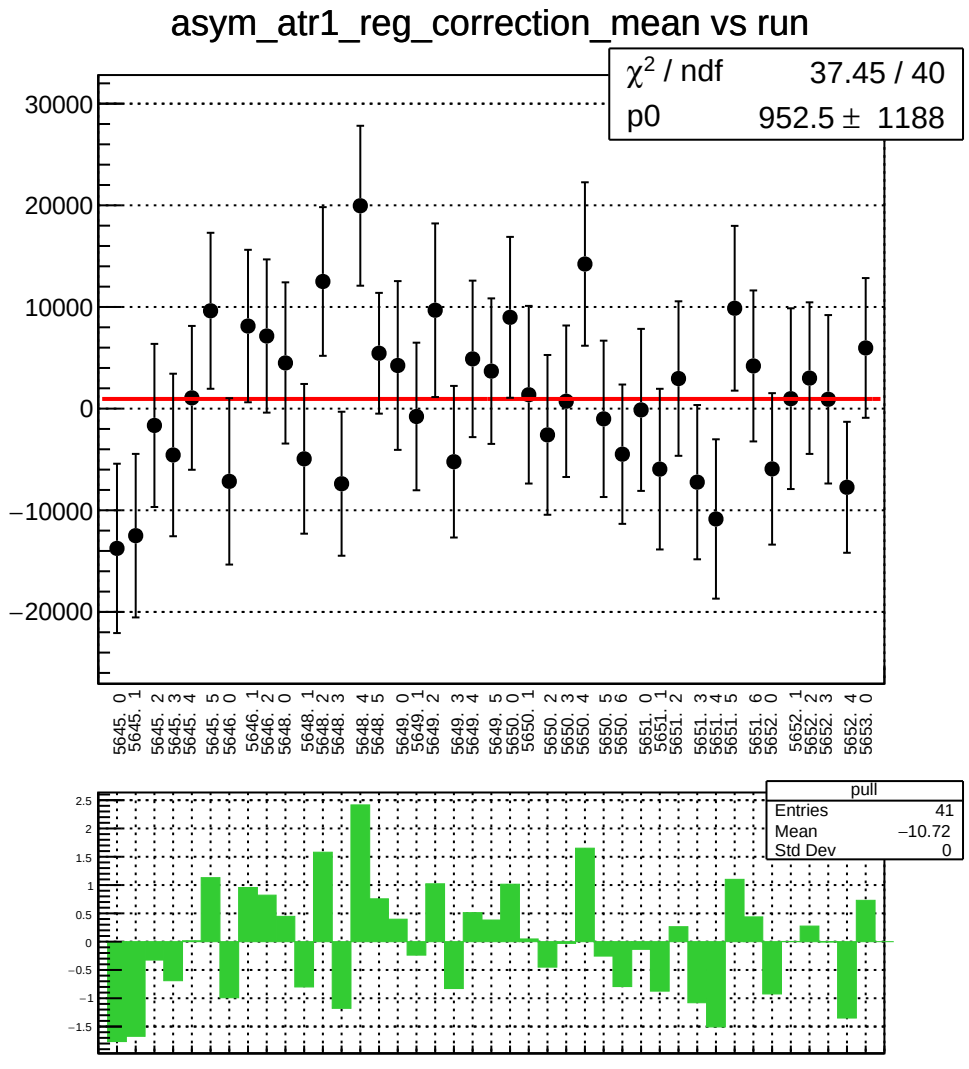

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.6 / 40
p0 4.633e−14 ± 6.603e−13
pull
Entries 41
Mean −25.73
Std Dev 0
pull1D
Entries 41
Mean 0.045
Std Dev 0.8192

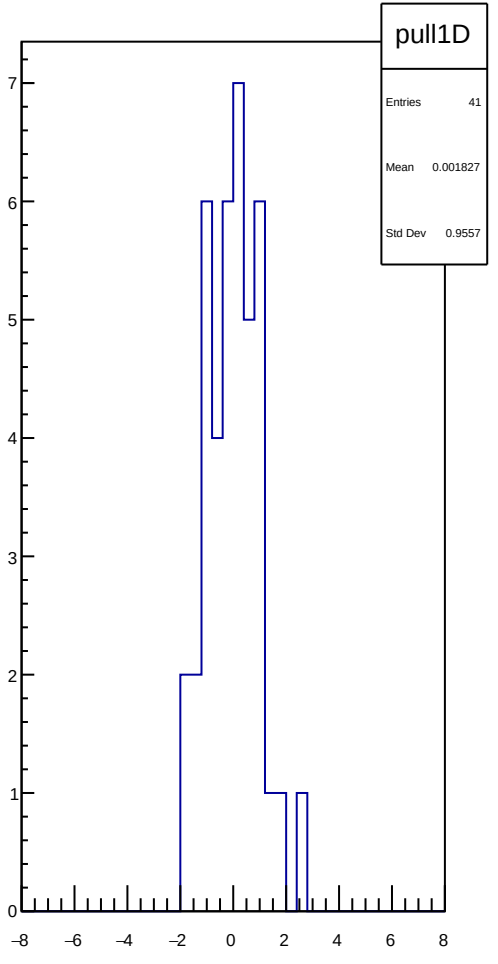

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.497e+05 / 40
p0 3.737e−10 ± 4.669e−13
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

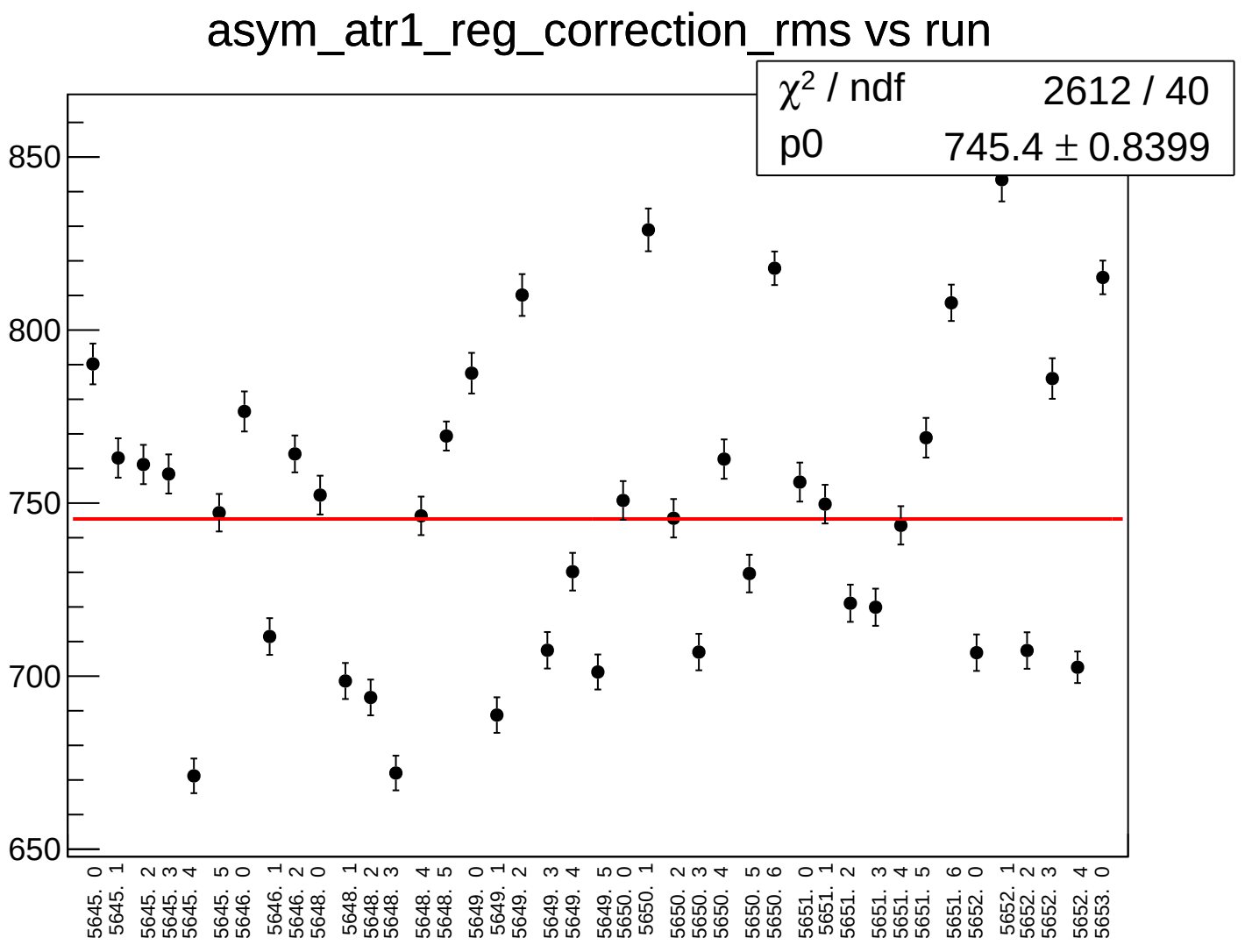

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 60.5 / 40
p0 −2492 ± 4276
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −12.6
Std Dev 0
2
1
0
−1
−2

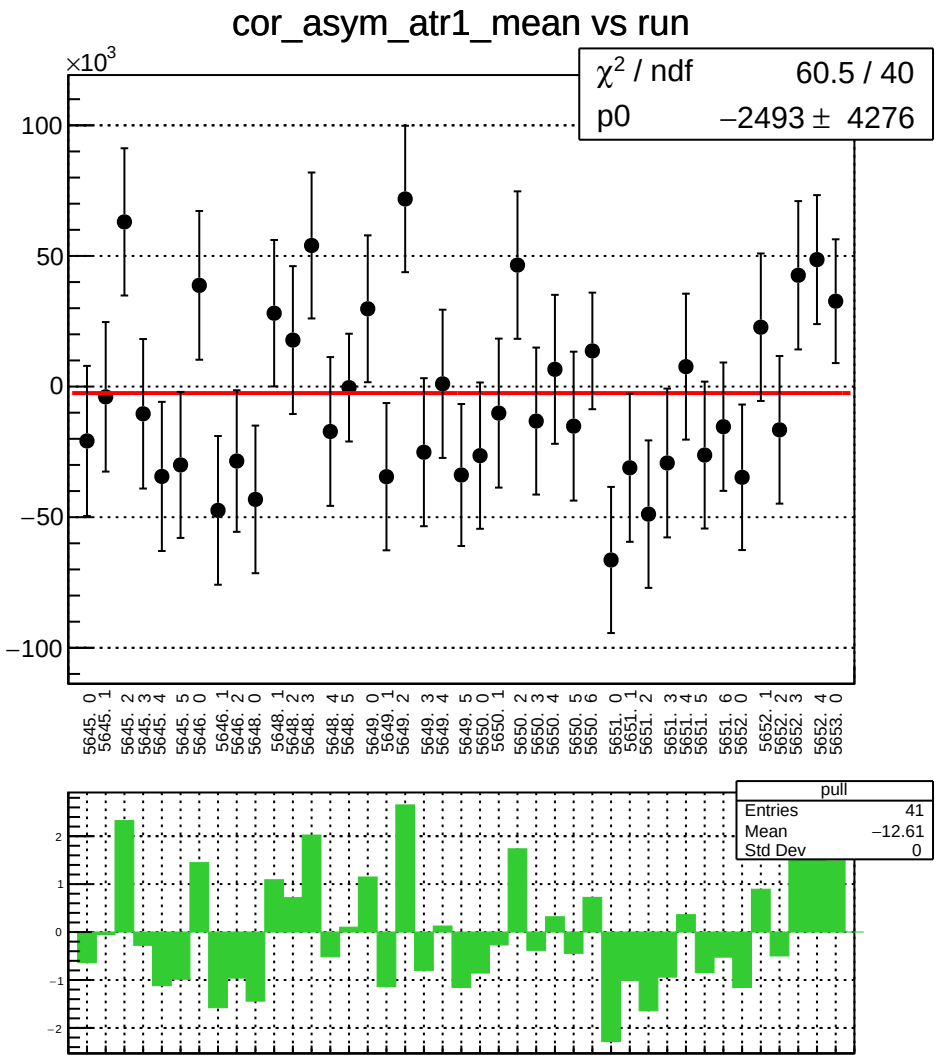

pull1D
Entries 41
Mean −0.01685
Std Dev 1.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

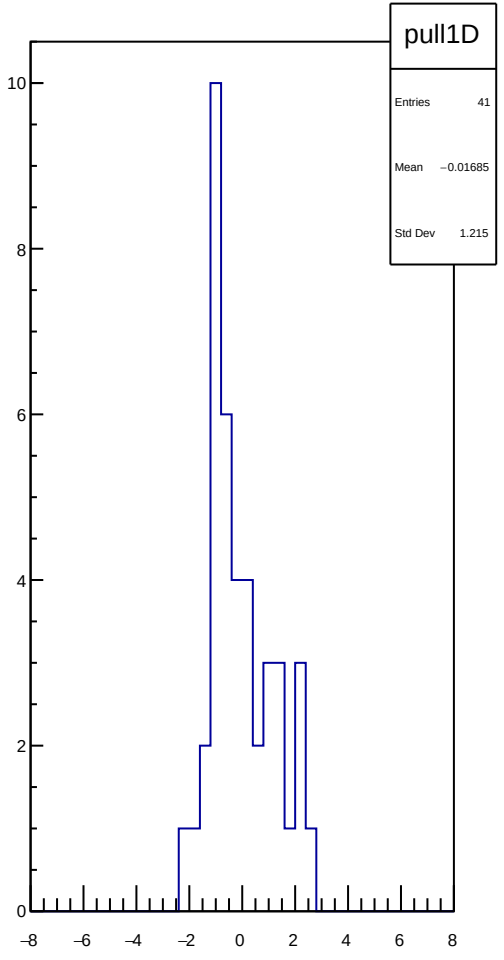

reg_asym_atr1_rms vs run
χ² / ndf 111.9 / 40
p0 2688 ± 3.023
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

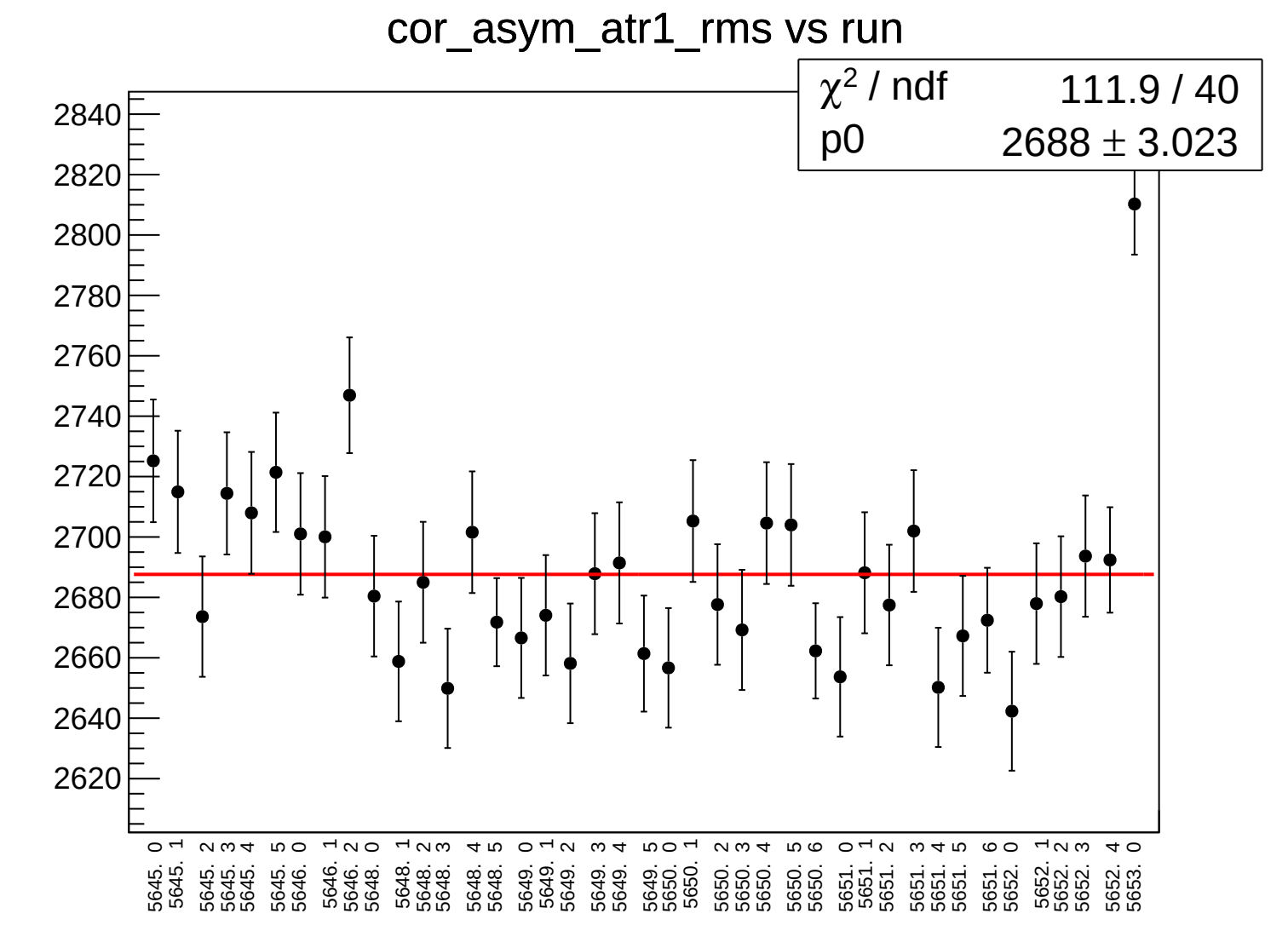

asym_atr1_reg_correction_mean vs run
χ² / ndf 37.45 / 40
p0 952.5 ± 1188
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −10.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

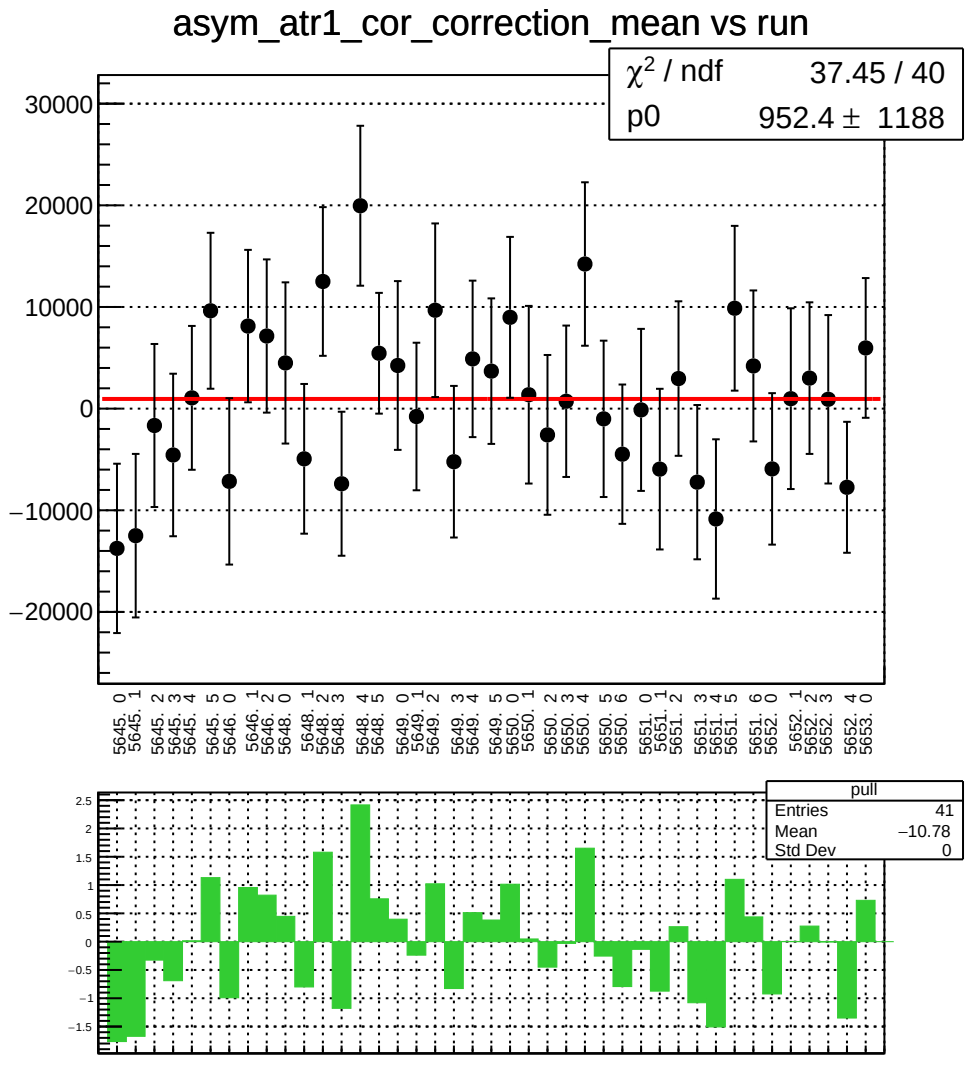

pull1D
Entries 41
Mean 0.001827
Std Dev 0.9557
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

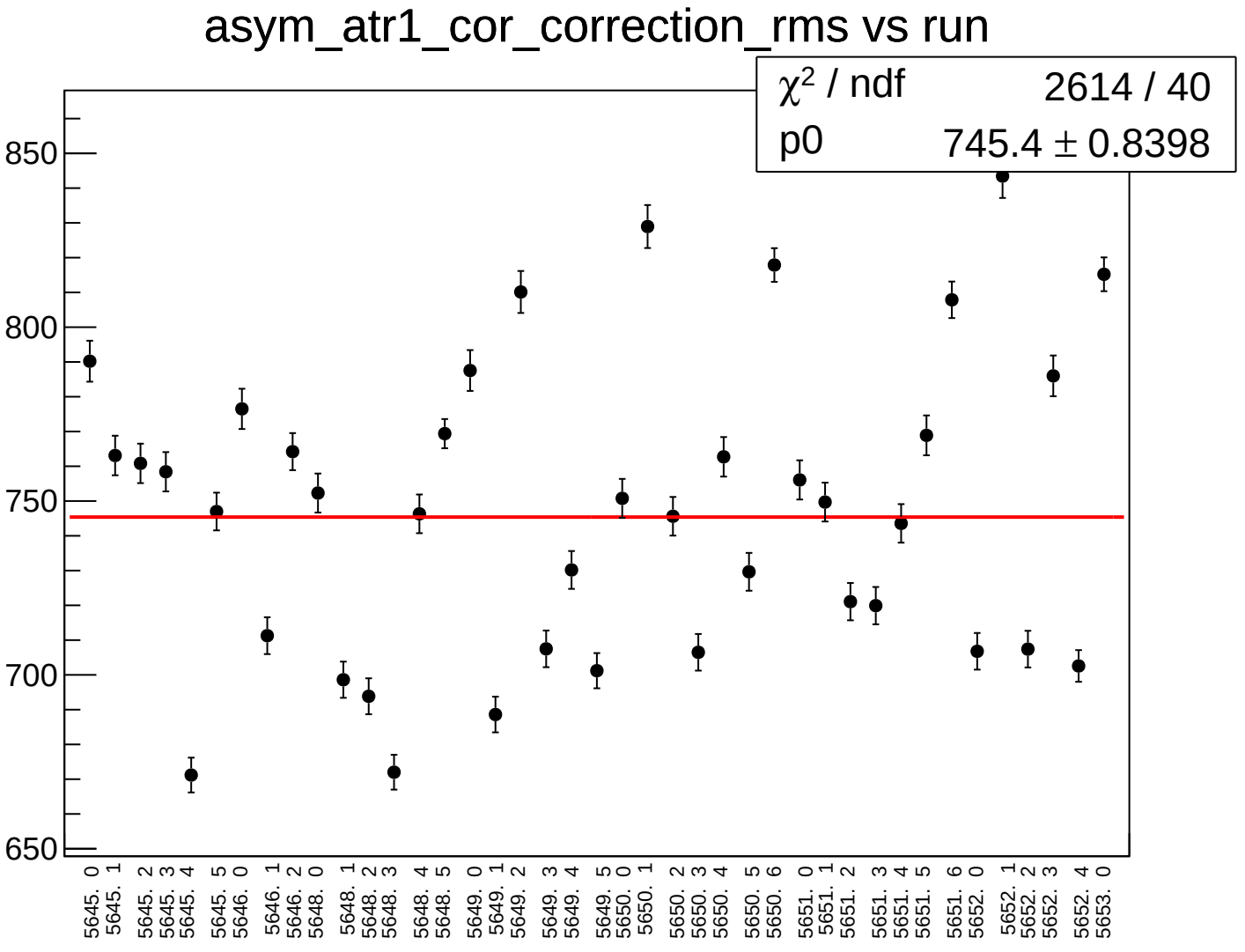

asym_atr1_reg_correction_rms vs run
χ² / ndf 2612 / 40
p0 745.4 ± 0.8399
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

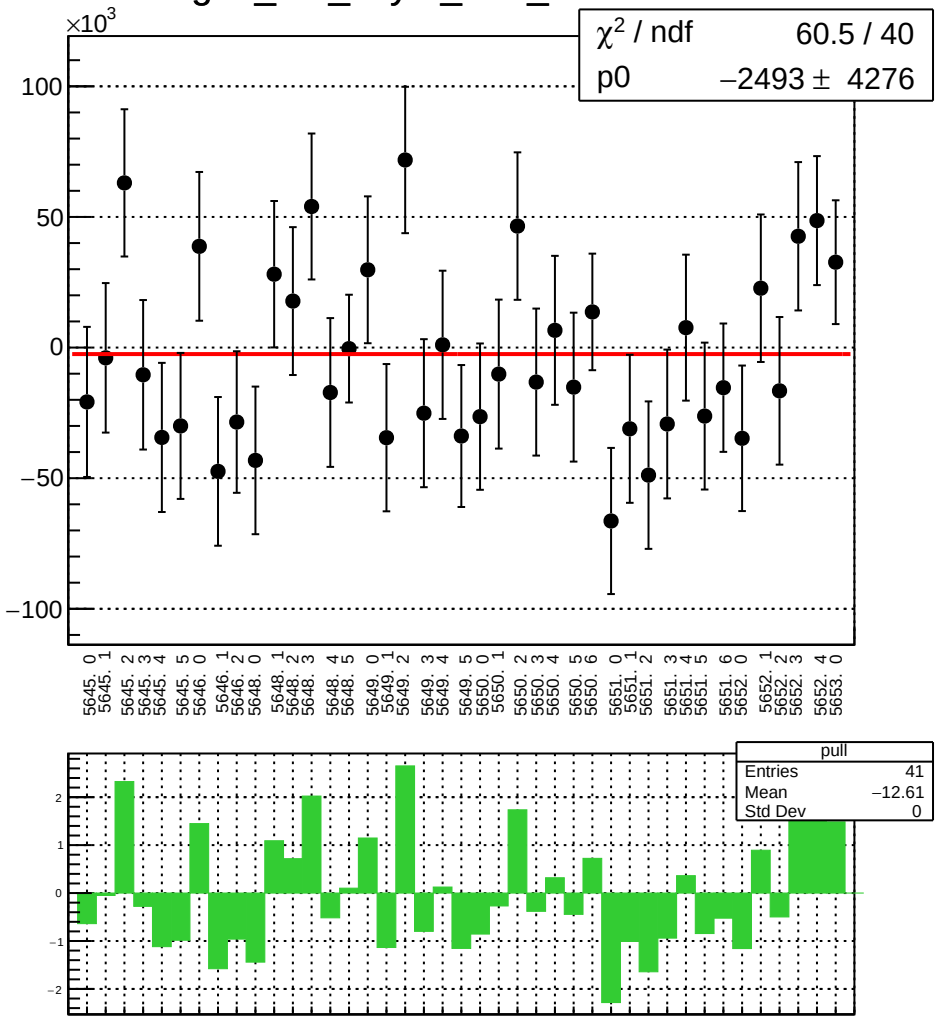

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 60.5 / 40
p0 −2493 ± 4276
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −12.61
Std Dev 0
2
1
0
−1
−2

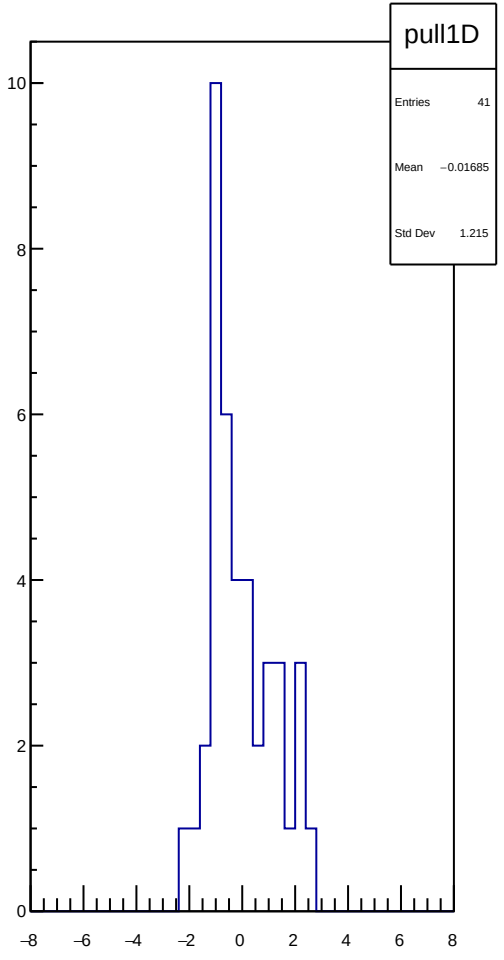

pull1D
Entries 41
Mean −0.01685
Std Dev 1.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

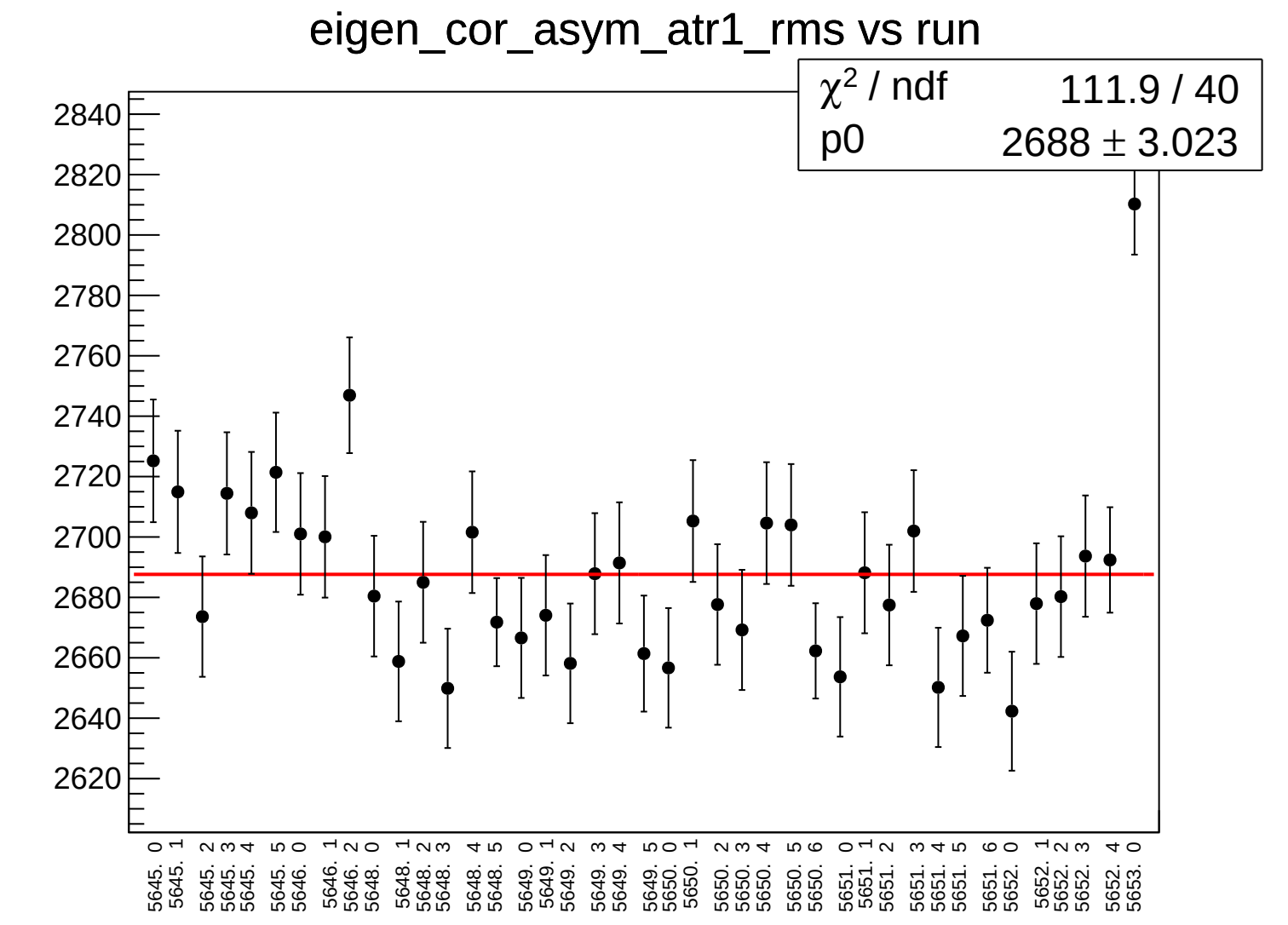

cor_asym_atr1_rms vs run
χ² / ndf 111.9 / 40
p0 2688 ± 3.023
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

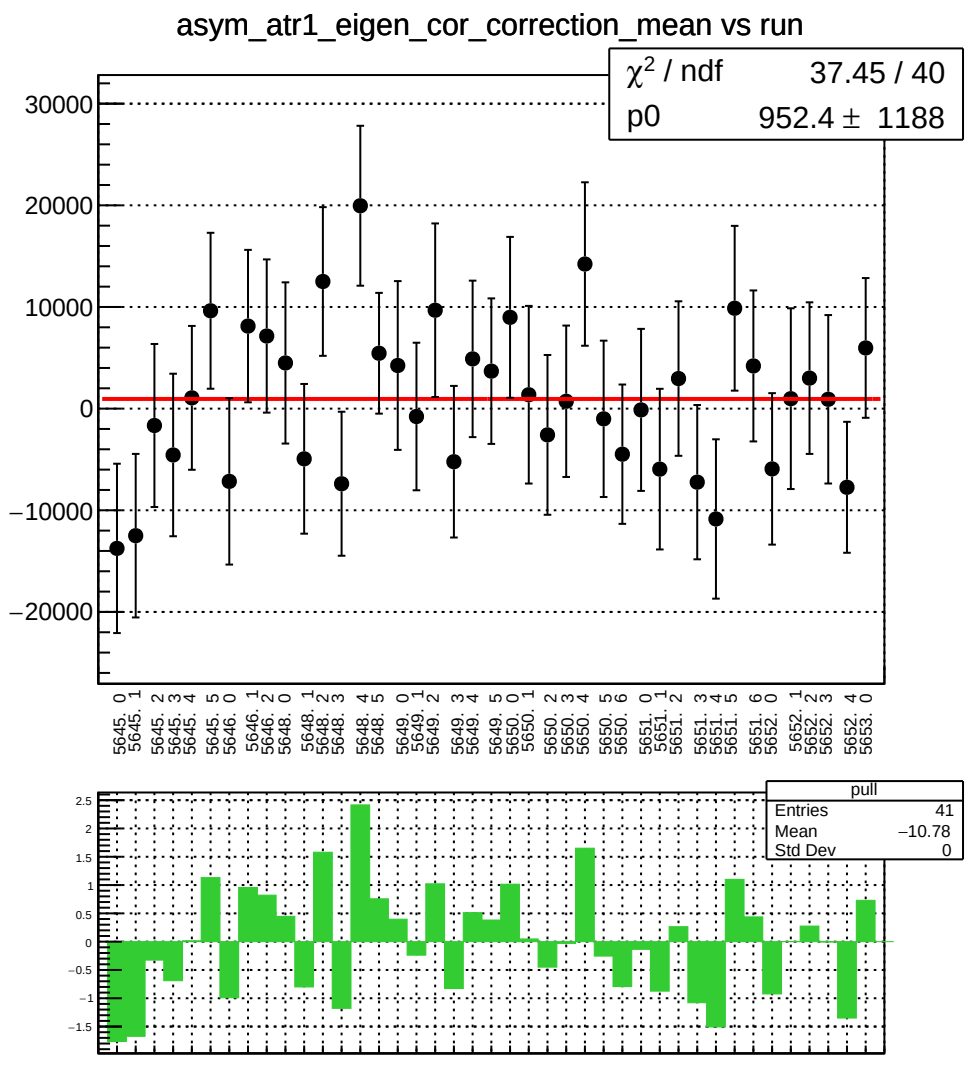

asym_atr1_cor_correction_mean vs run
χ² / ndf 37.45 / 40
p0 952.4 ± 1188
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −10.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.001812
Std Dev 0.9557
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

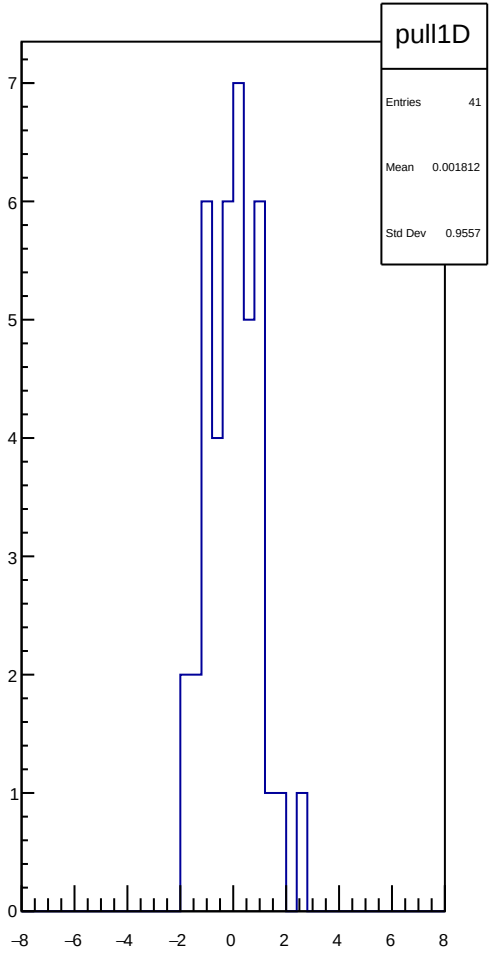

asym_atr1_cor_correction_rms vs run
χ² / ndf 2614 / 40
p0 745.4 ± 0.8398
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

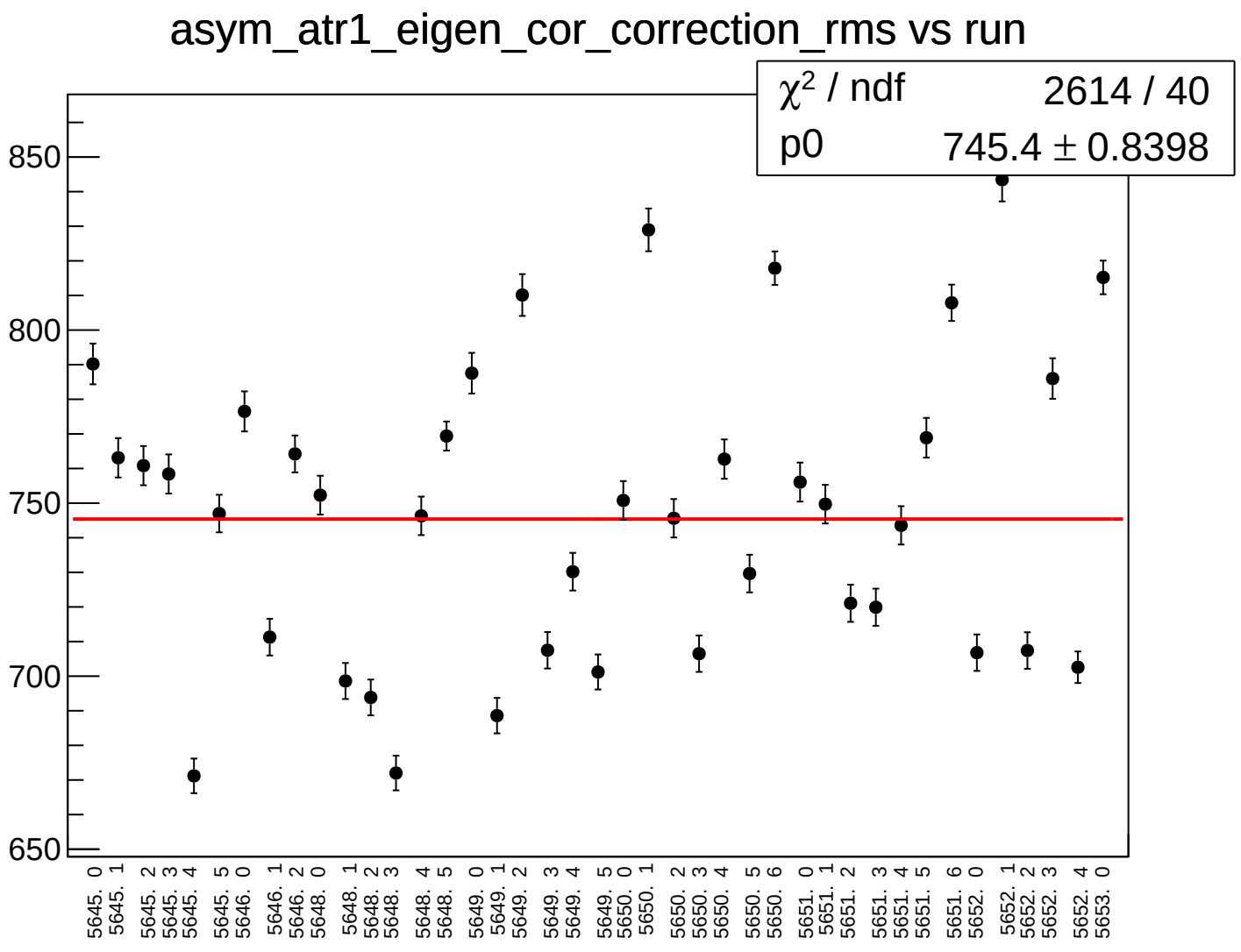

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 60.5 / 40
p0 −2493 ± 4276
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −12.61
Std Dev 0
2
1
0
−1
−2

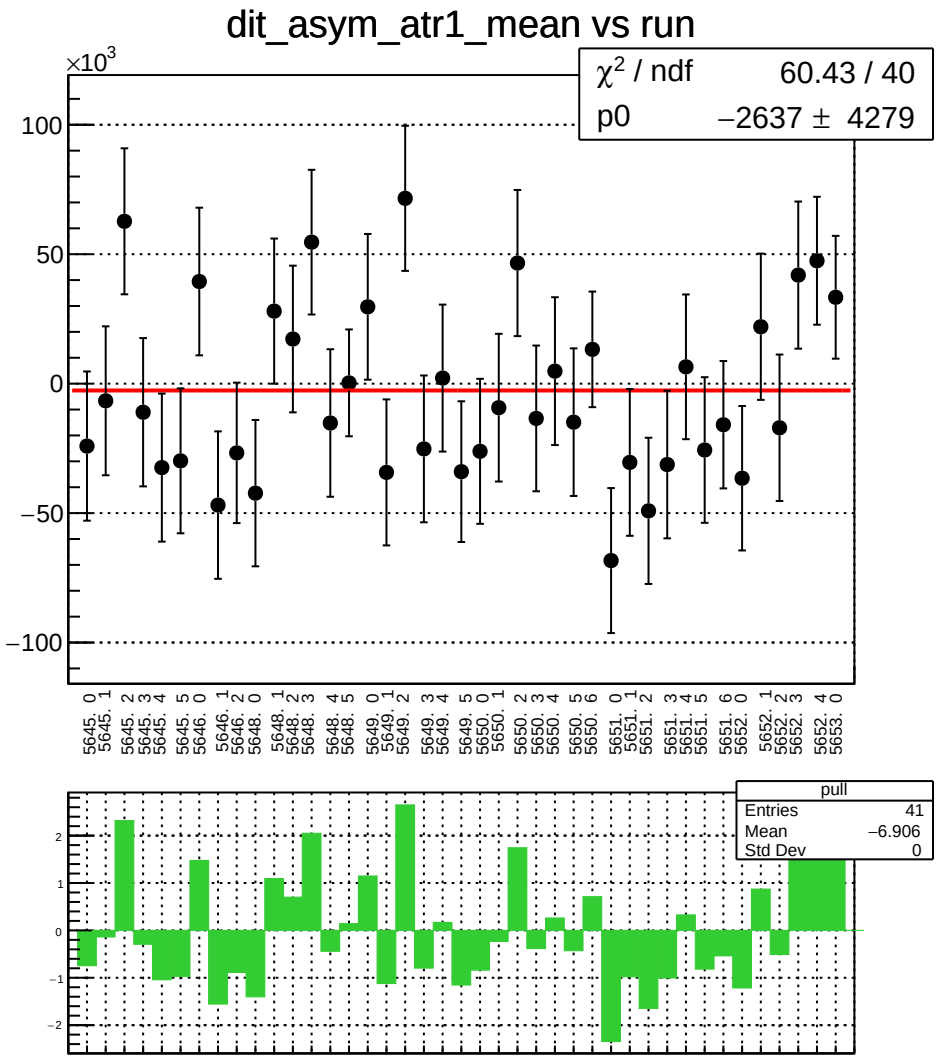

pull1D
Entries 41
Mean −0.01685
Std Dev 1.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

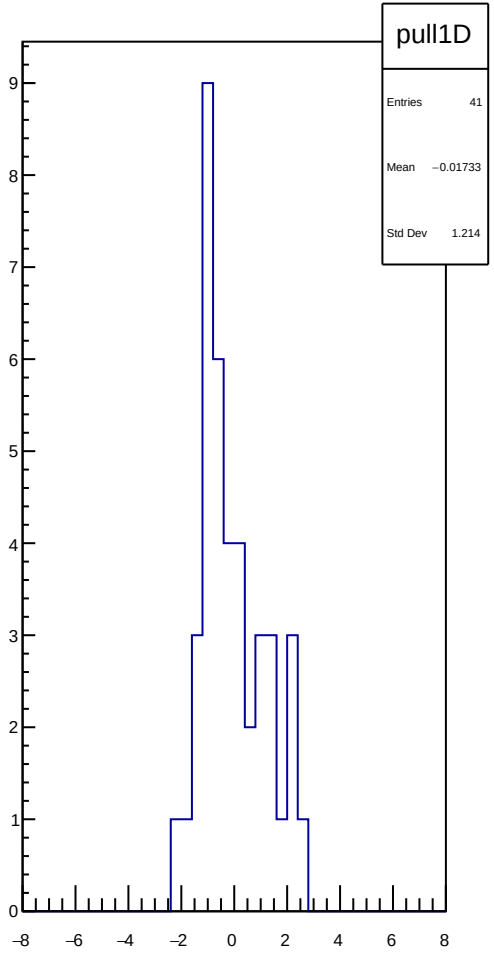

eigen_cor_asym_atr1_rms vs run
χ² / ndf 111.9 / 40
p0 2688 ± 3.023
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

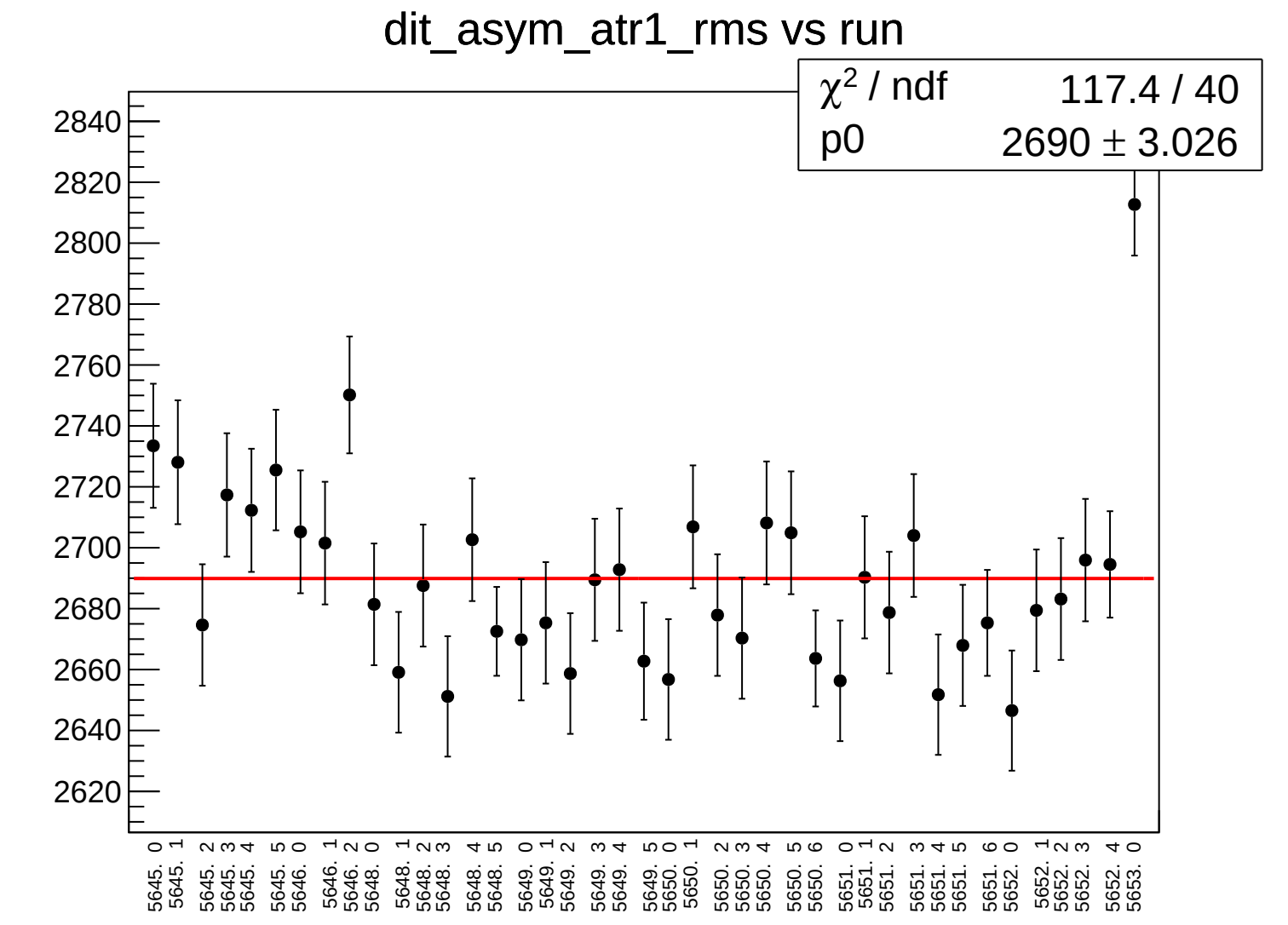

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 37.45 / 40
p0 952.4 ± 1188
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −10.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

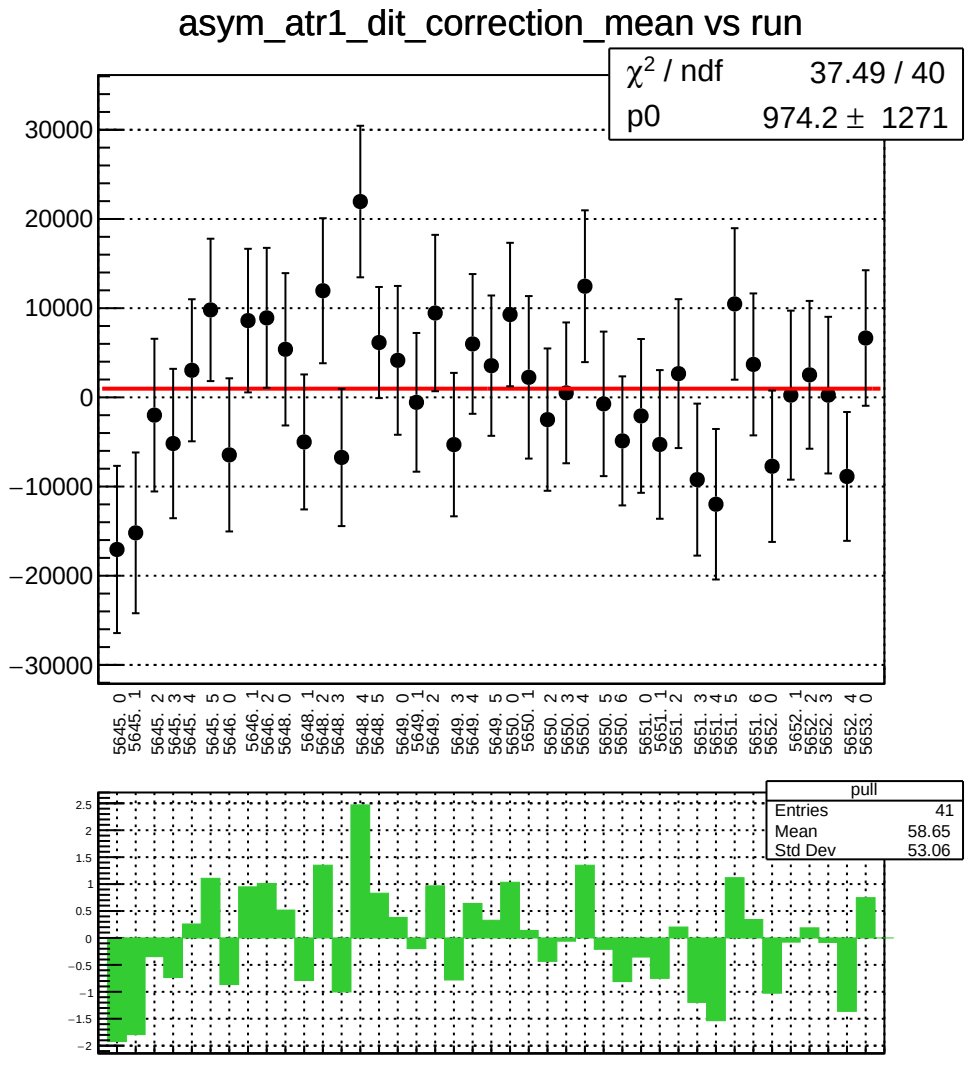

pull1D
Entries 41
Mean 0.001812
Std Dev 0.9557
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

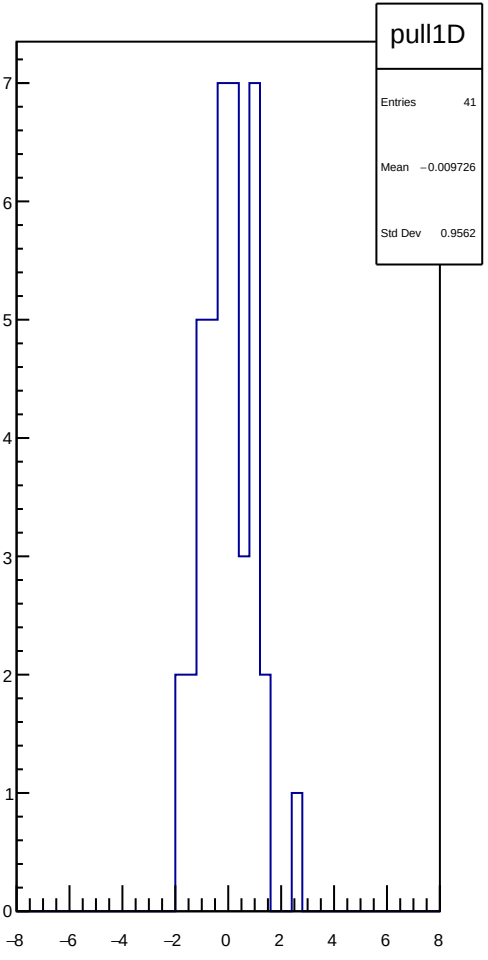

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2614 / 40
p0 745.4 ± 0.8398
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

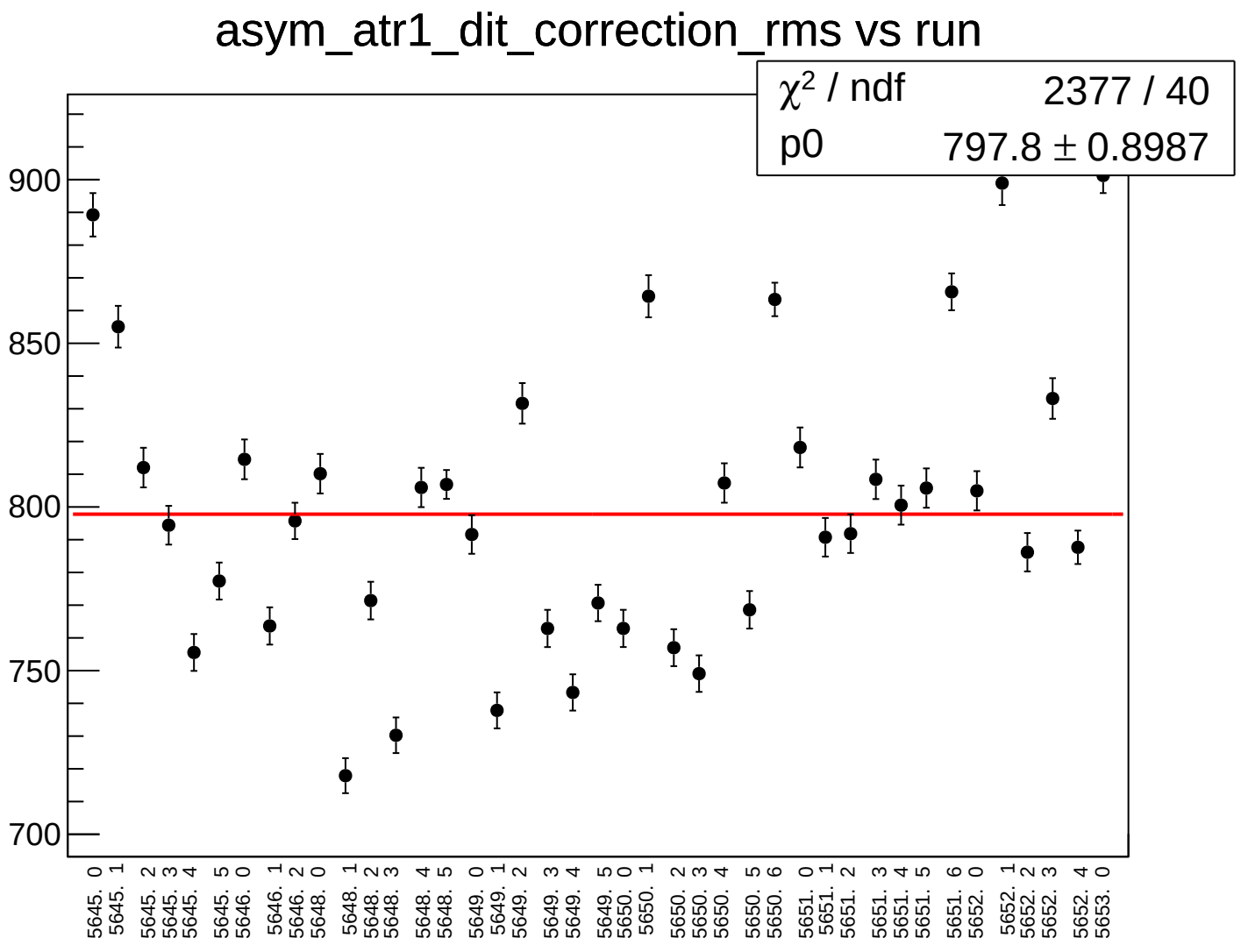

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 60.43 / 40
p0 −2637 ± 4279
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6.906
Std Dev 0
2
1
0
−1
−2

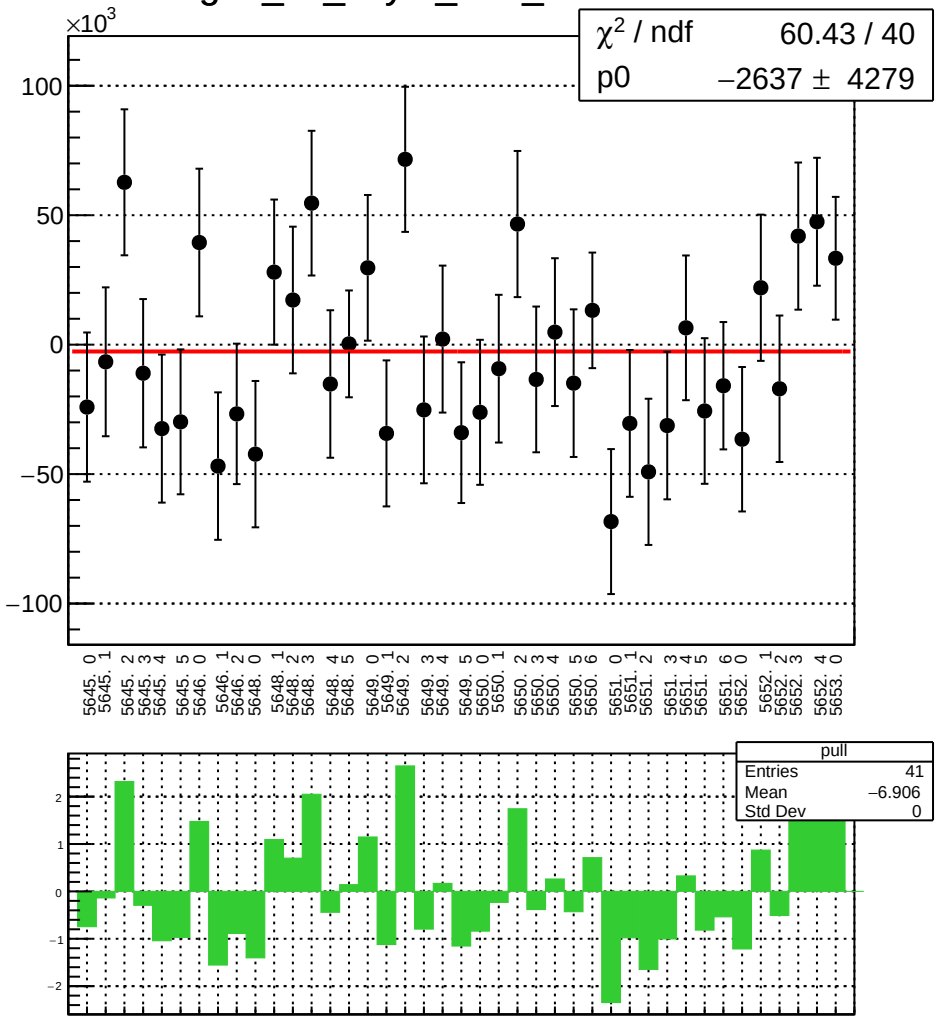

pull1D
Entries 41
Mean −0.01733
Std Dev 1.214
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

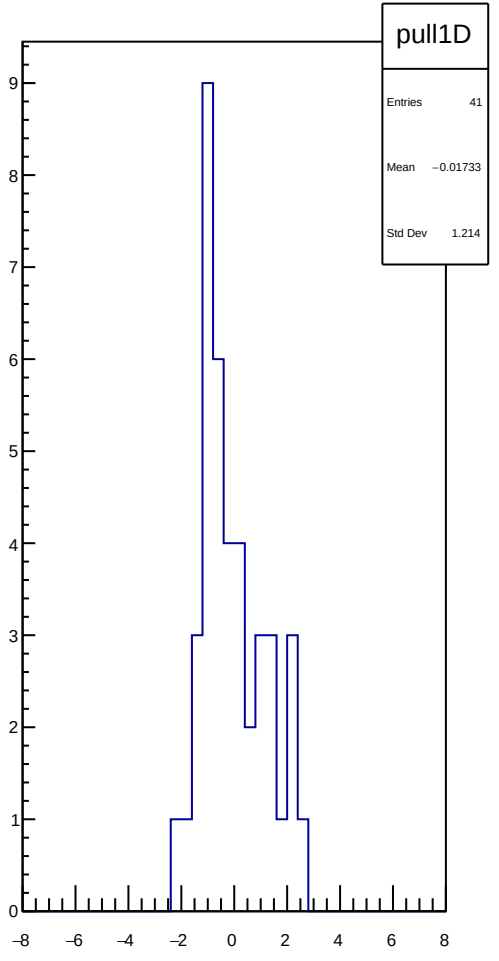

dit_asym_atr1_rms vs run
χ² / ndf 117.4 / 40
p0 2690 ± 3.026
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

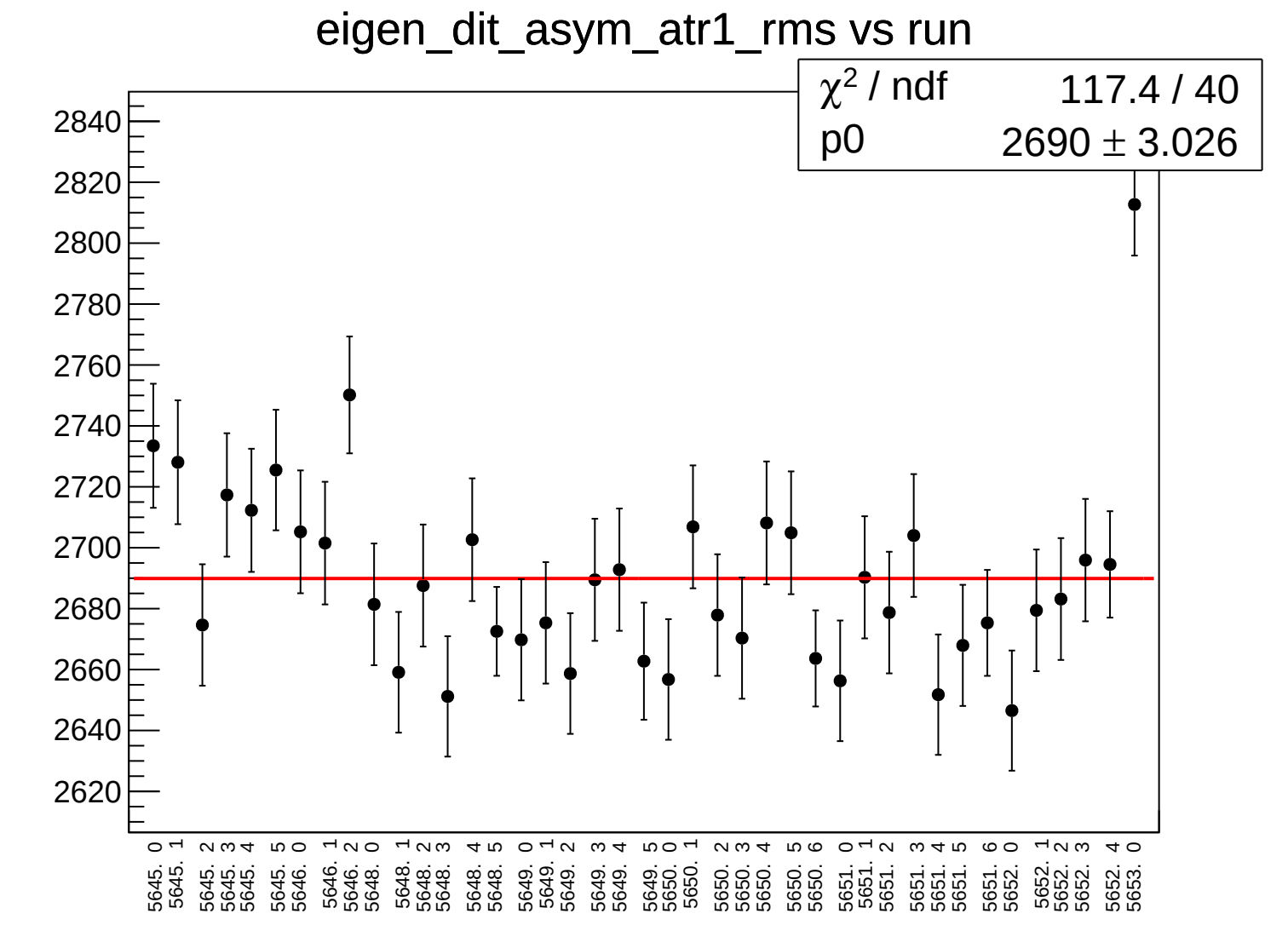

asym_atr1_dit_correction_mean vs run
χ² / ndf 37.49 / 40
p0 974.2 ± 1271
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 58.65
Std Dev 53.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

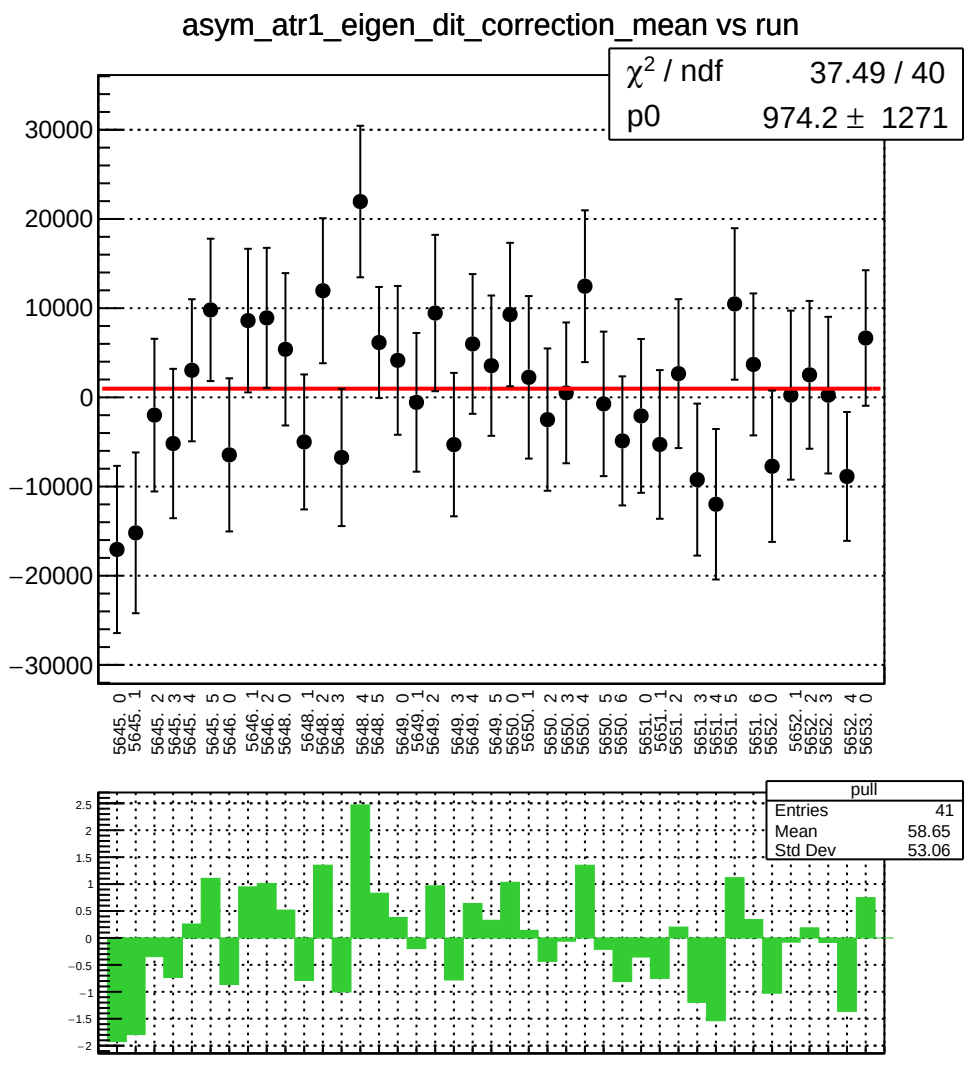

pull1D
Entries 41
Mean −0.009726
Std Dev 0.9562
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

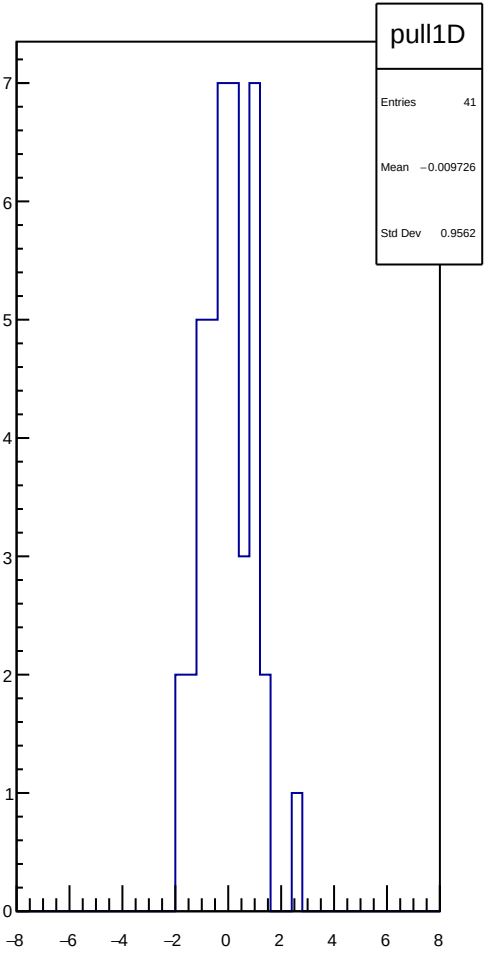

asym_atr1_dit_correction_rms vs run
χ² / ndf 2377 / 40
p0 797.8 ± 0.8987
900
850
800
750
700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

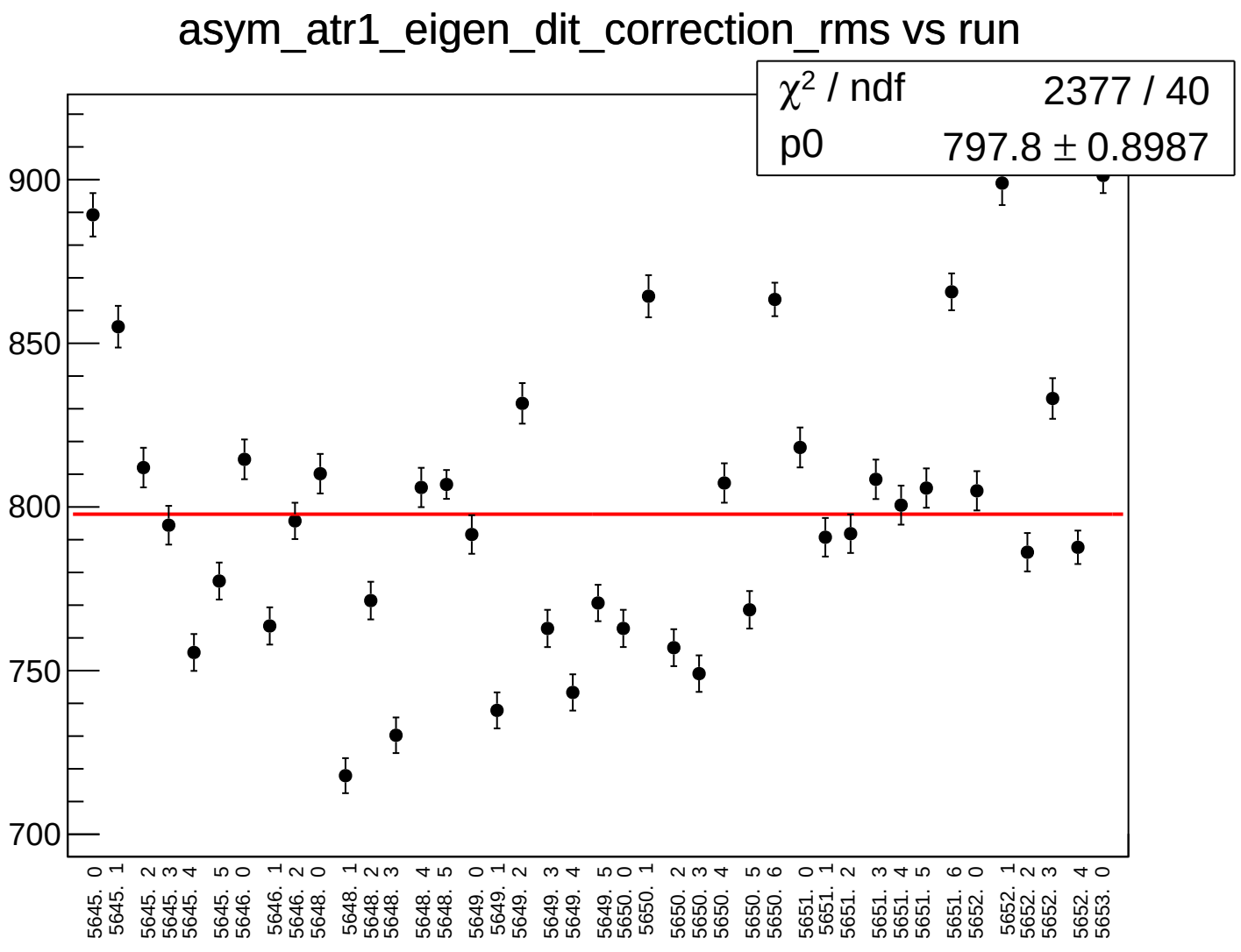

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 60.43 / 40
p0 −2637 ± 4279
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6.906
Std Dev 0
2
1
0
−1
−2

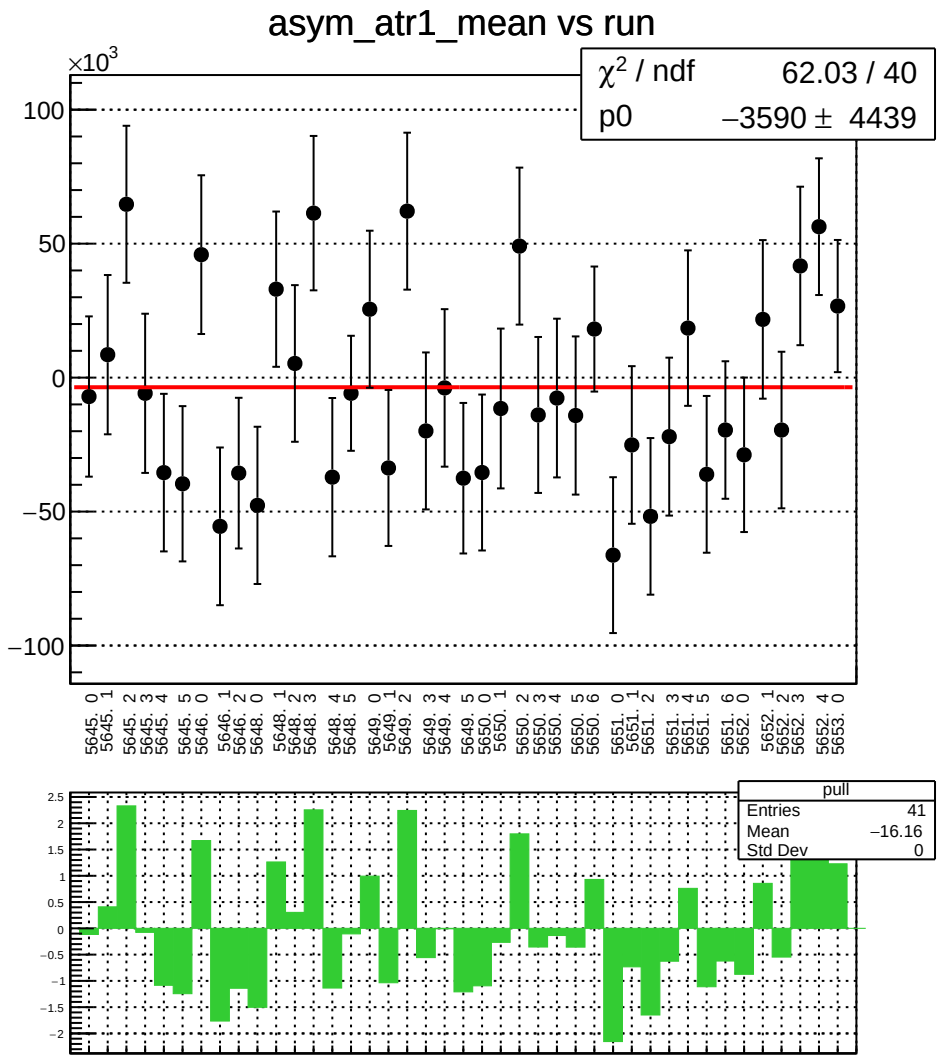

pull1D
Entries 41
Mean −0.01733
Std Dev 1.214
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

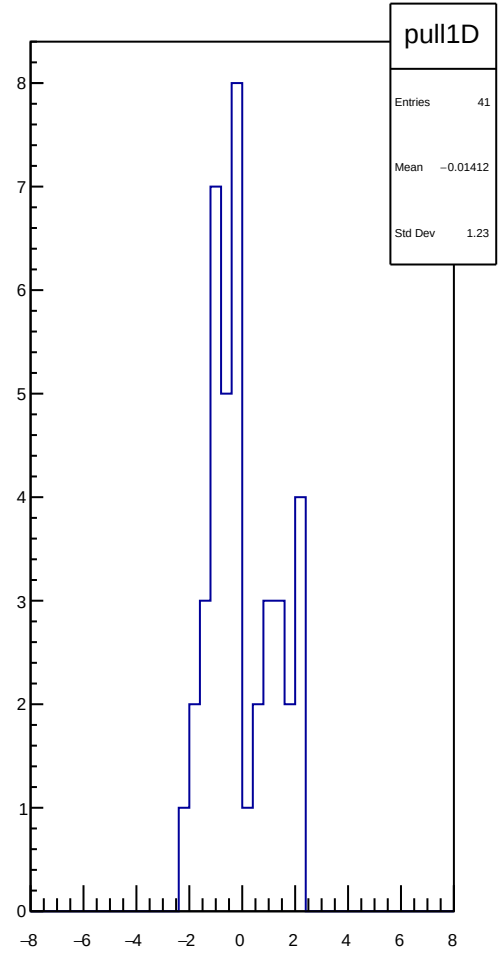

eigen_dit_asym_atr1_rms vs run
χ² / ndf 117.4 / 40
p0 2690 ± 3.026
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

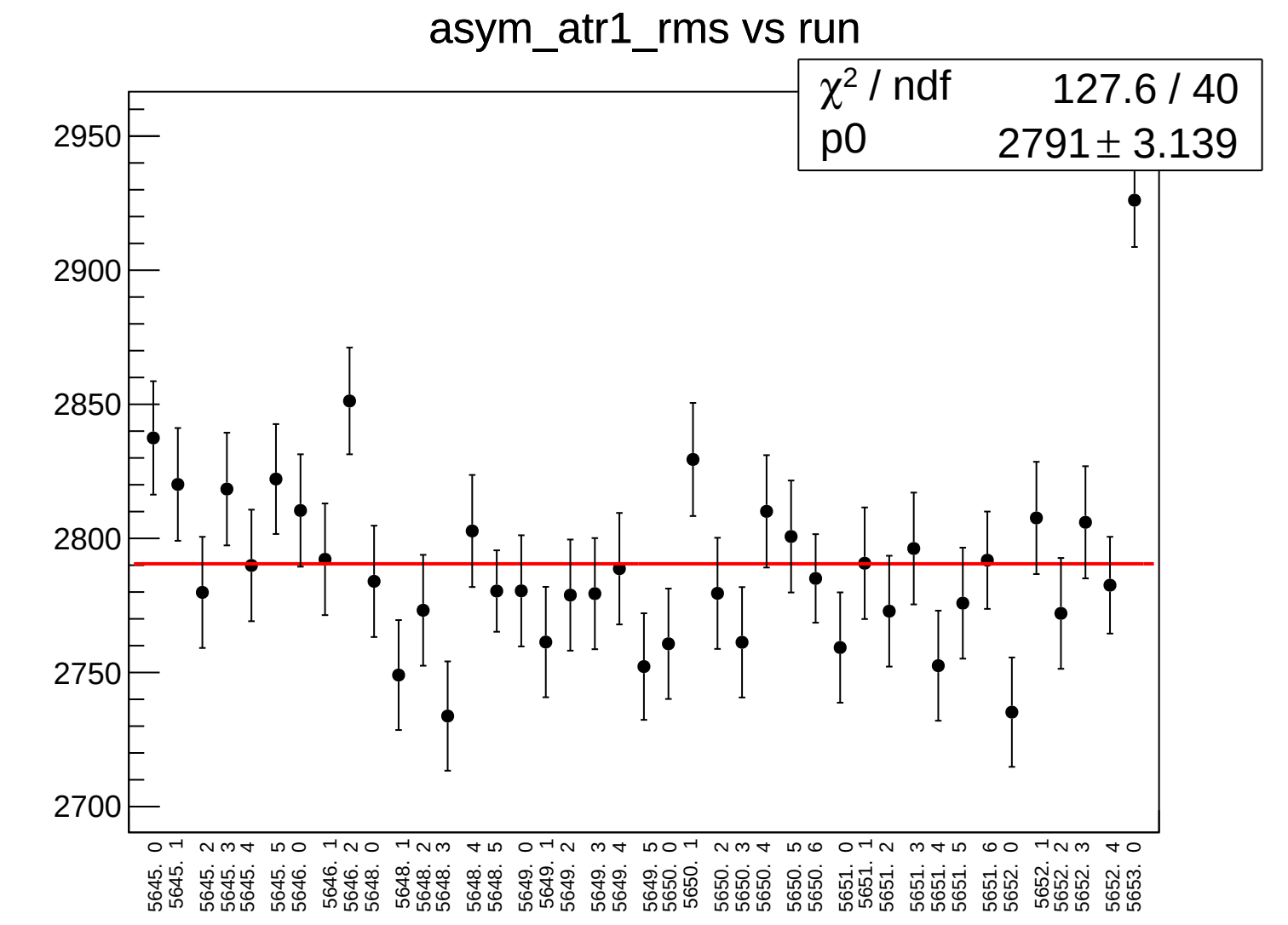

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 37.49 / 40
p0 974.2 ± 1271
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 58.65
Std Dev 53.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

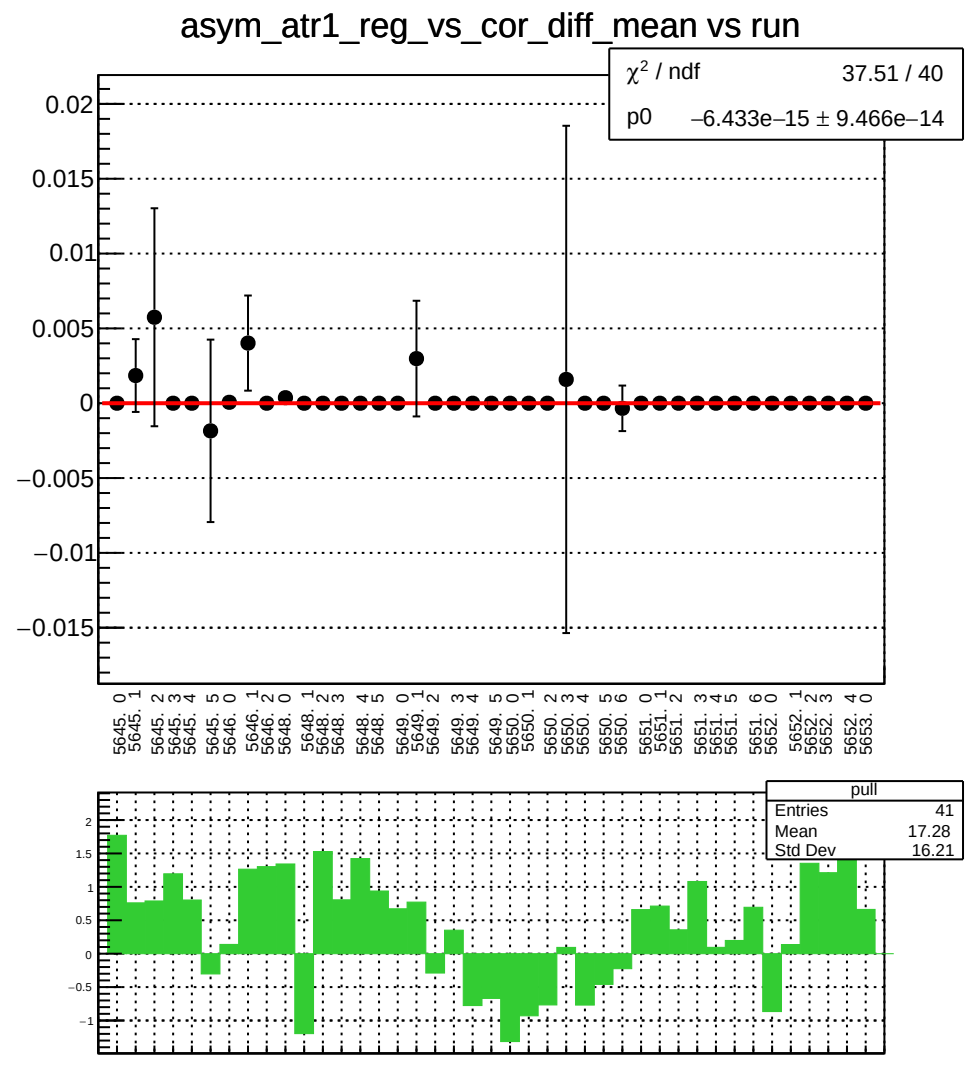

pull1D
Entries 41
Mean −0.009726
Std Dev 0.9562
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

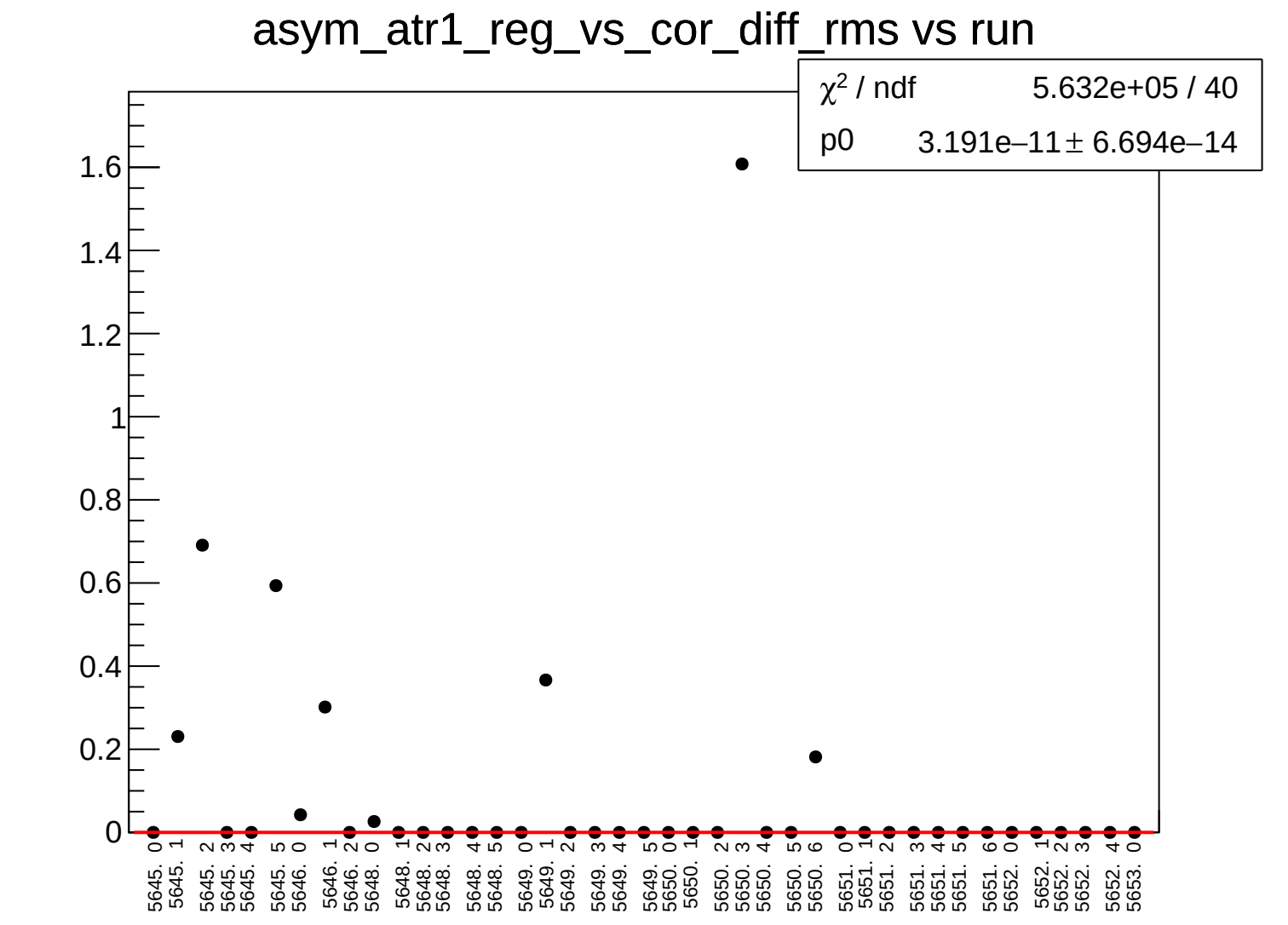

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2377 / 40
p0 797.8 ± 0.8987
900
850
800
750
700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

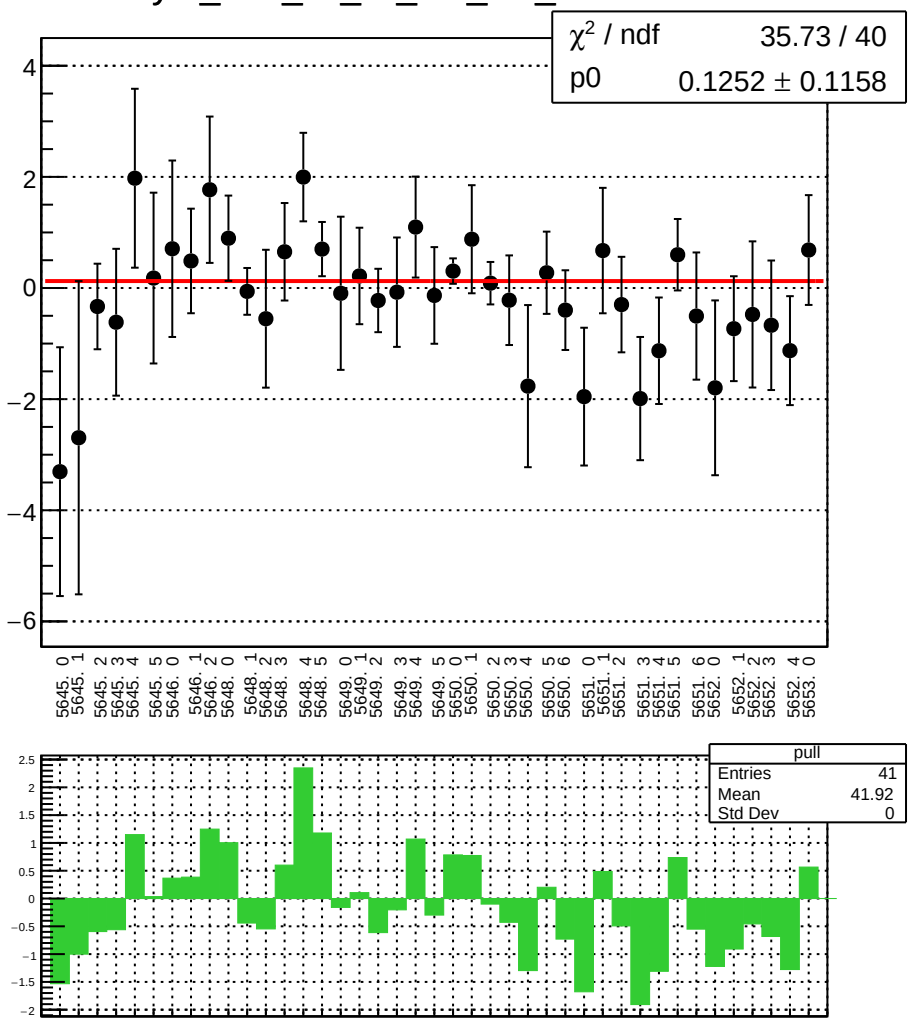

asym_atr1_mean vs run
×10^3
χ² / ndf 62.03 / 40
p0 −3590 ± 4439
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −16.16
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

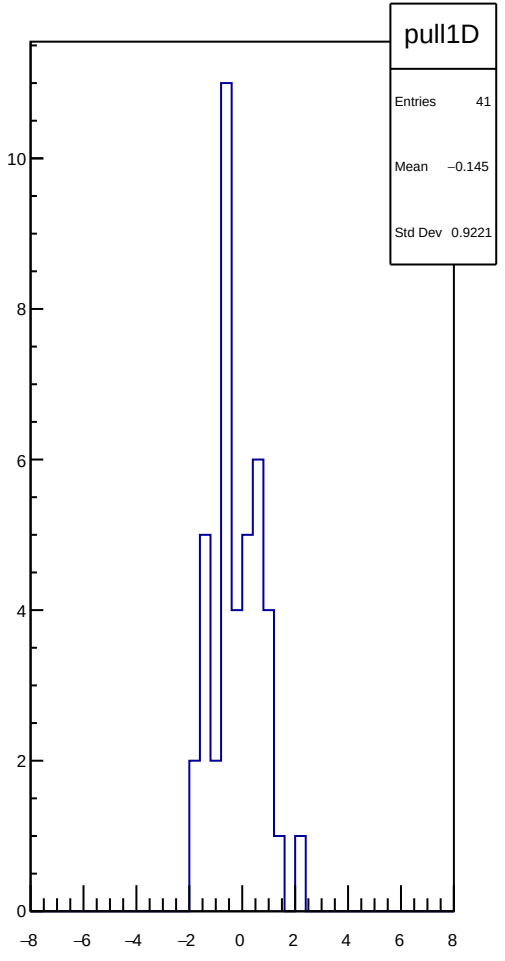

pull1D
Entries 41
Mean −0.01412
Std Dev 1.23
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

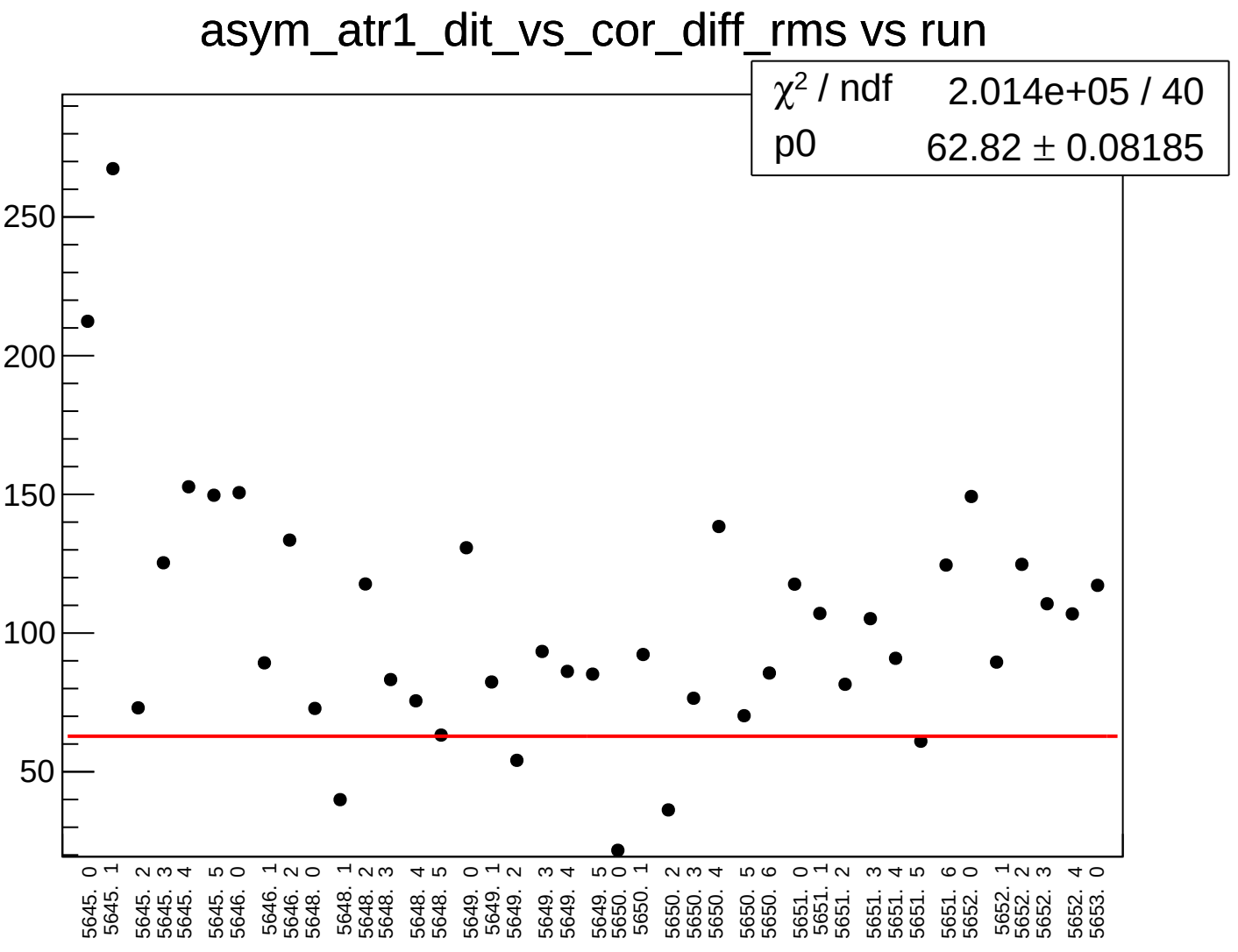

asym_atr1_rms vs run
χ² / ndf 127.6 / 40
p0 2791 ± 3.139
2950
2900
2850
2800
2750
2700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

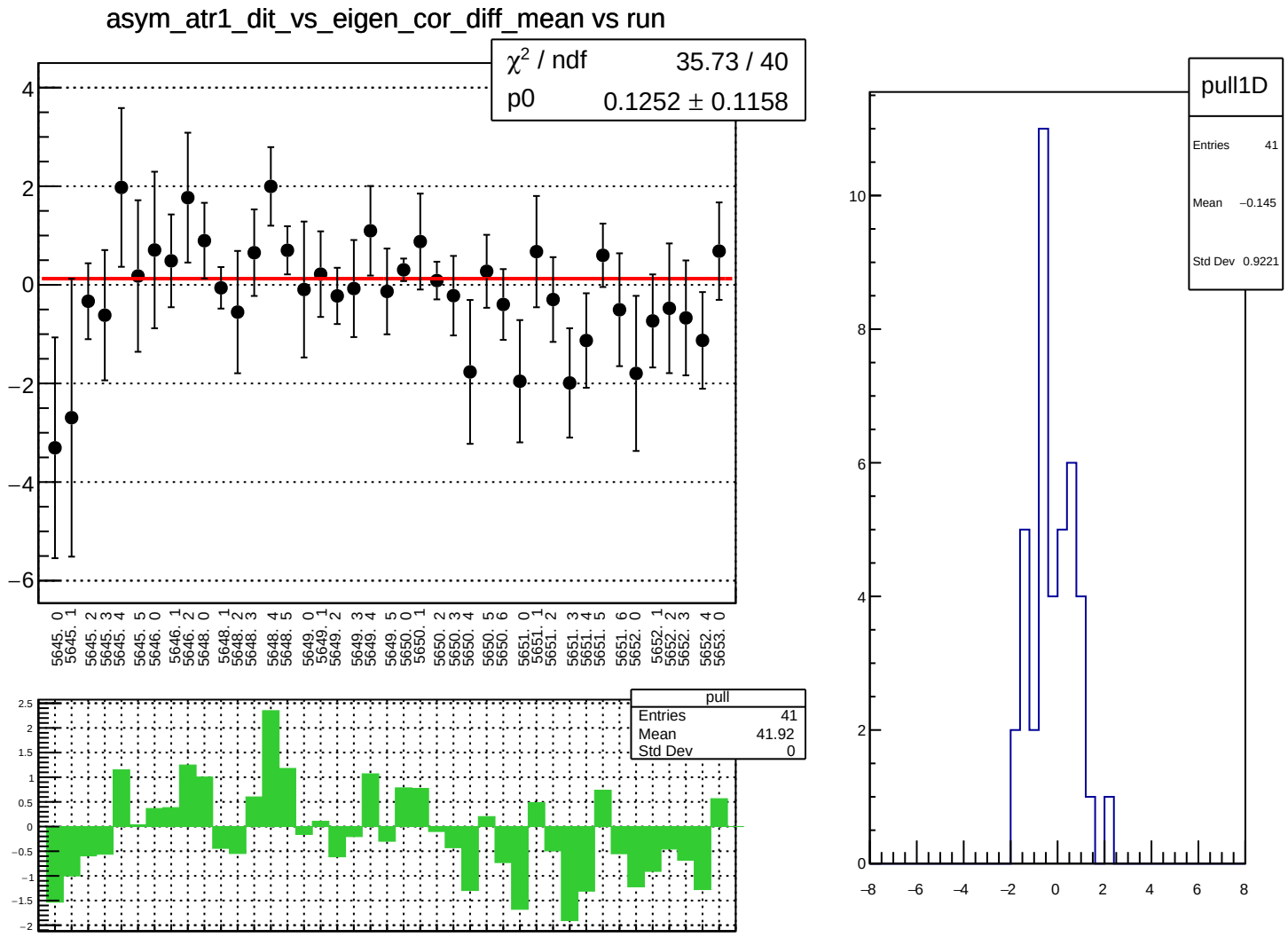

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 37.51 / 40
p0 −6.433e−15 ± 9.466e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.28
Std Dev 16.21
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.4091
Std Dev 0.8646
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

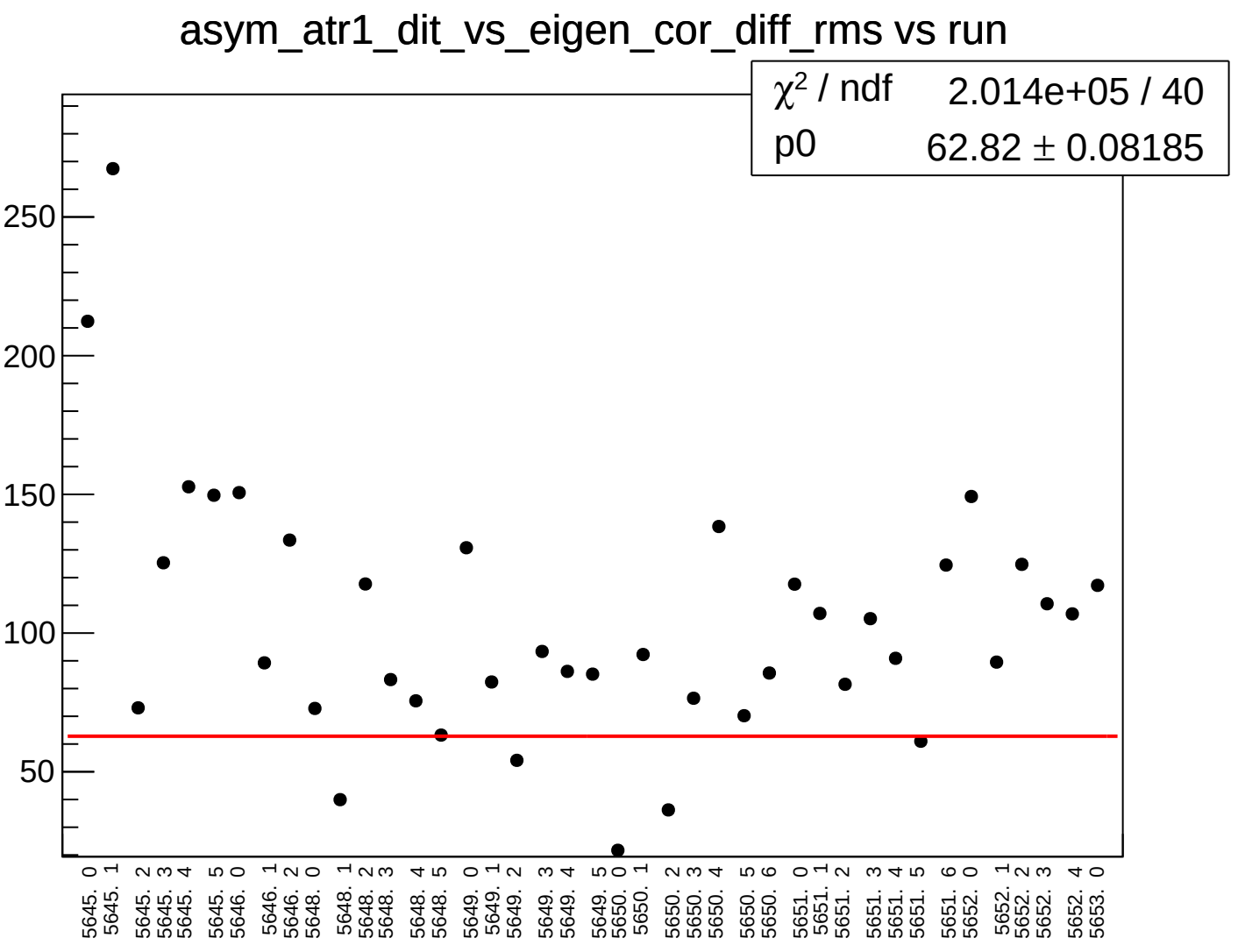

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.632e+05 / 40
p0 3.191e−11 ± 6.694e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

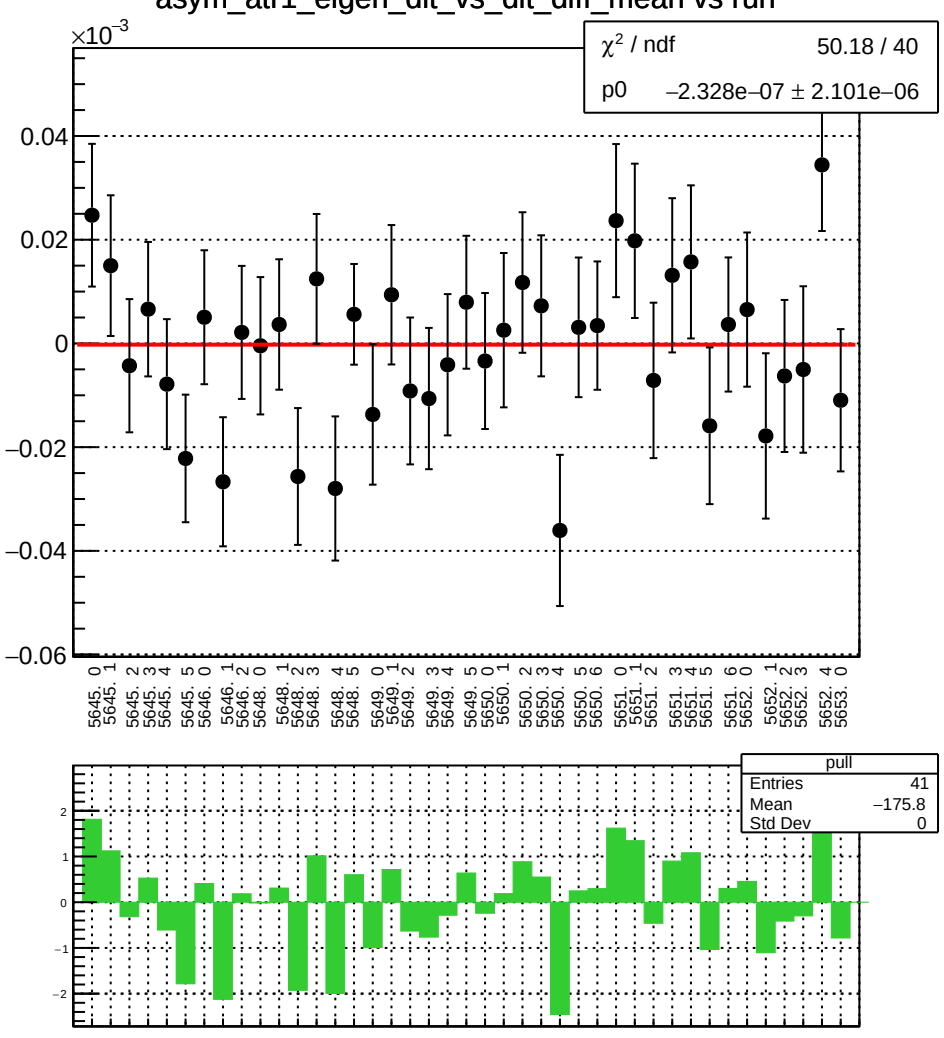

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 35.73 / 40
p0 0.1252 ± 0.1158
pull
Entries 41
Mean 41.92
Std Dev 0

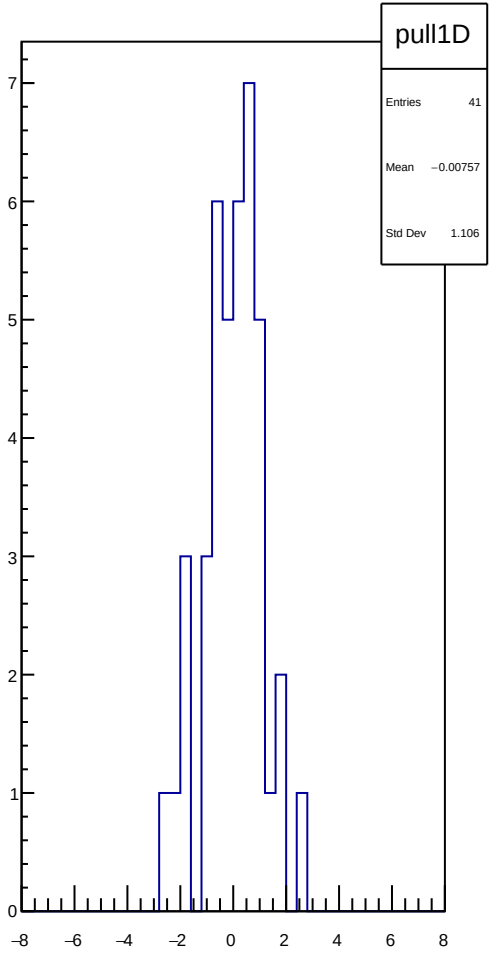

pull1D
Entries 41
Mean −0.145
Std Dev 0.9221

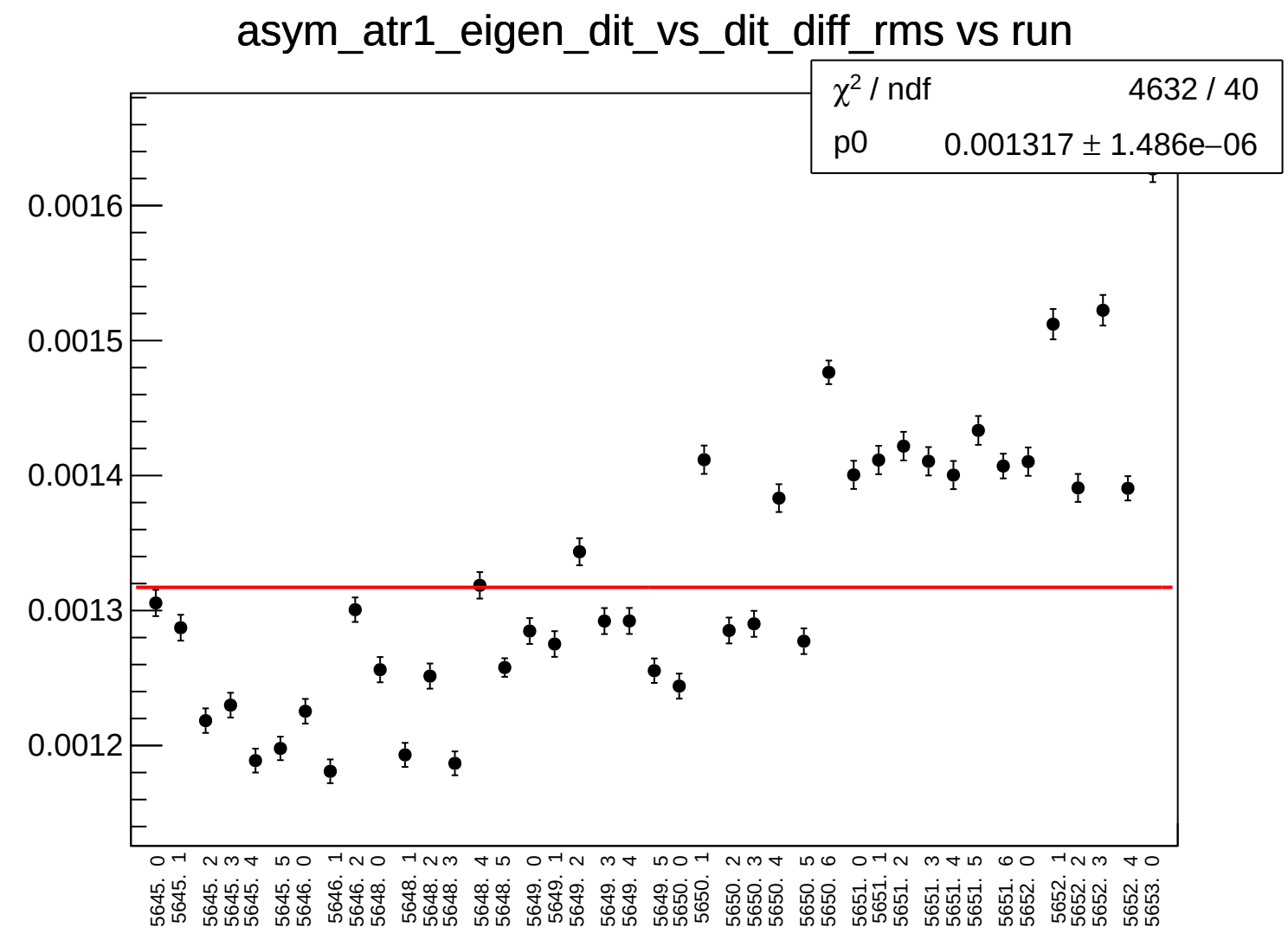

asym_atr1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.014e+05 / 40
p0 62.82 ± 0.08185
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

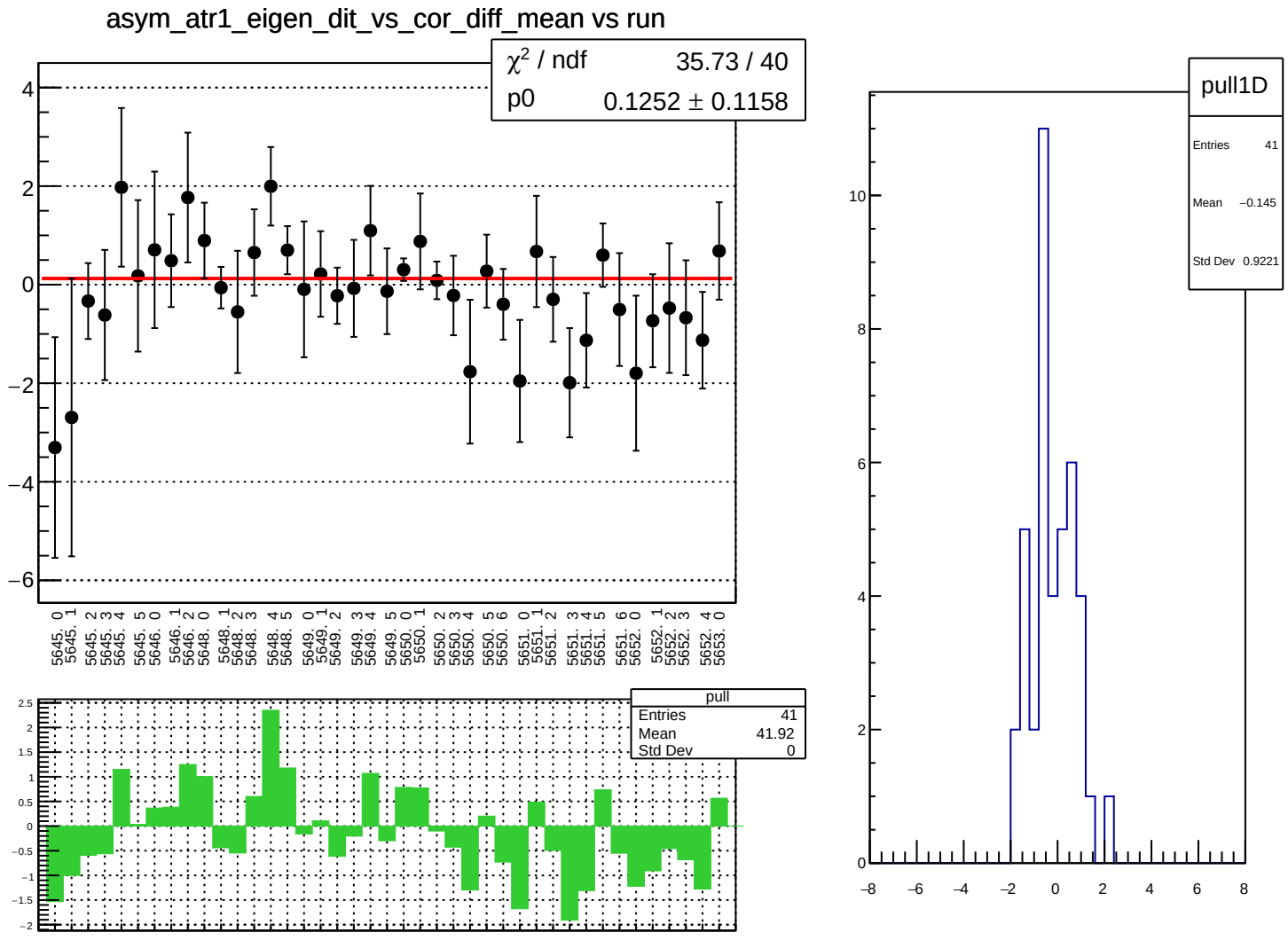

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.73 / 40
p0 0.1252 ± 0.1158
pull
Entries 41
Mean 41.92
Std Dev 0
pull1D
Entries 41
Mean −0.145
Std Dev 0.9221

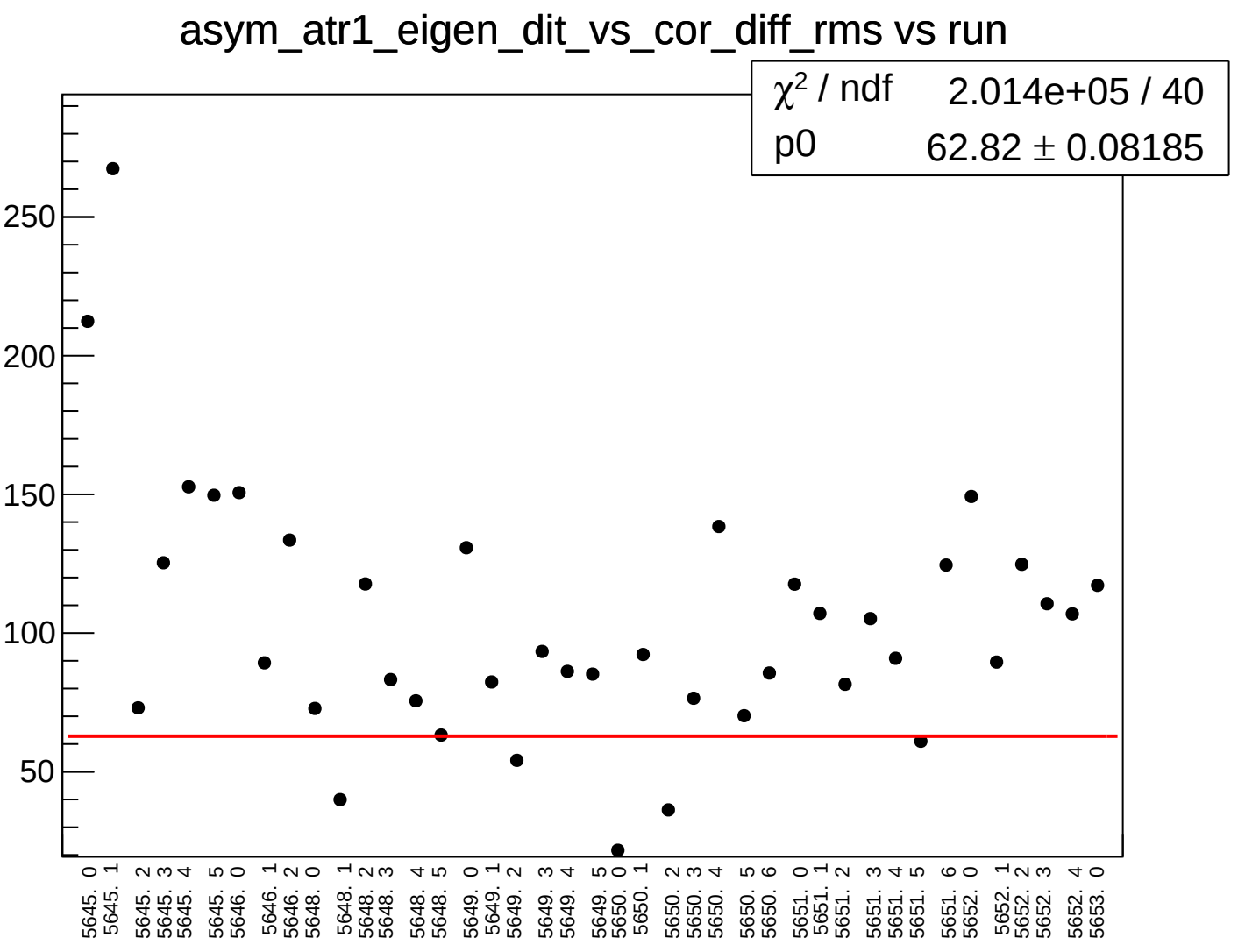

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 40
p0 62.82 ± 0.08185
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

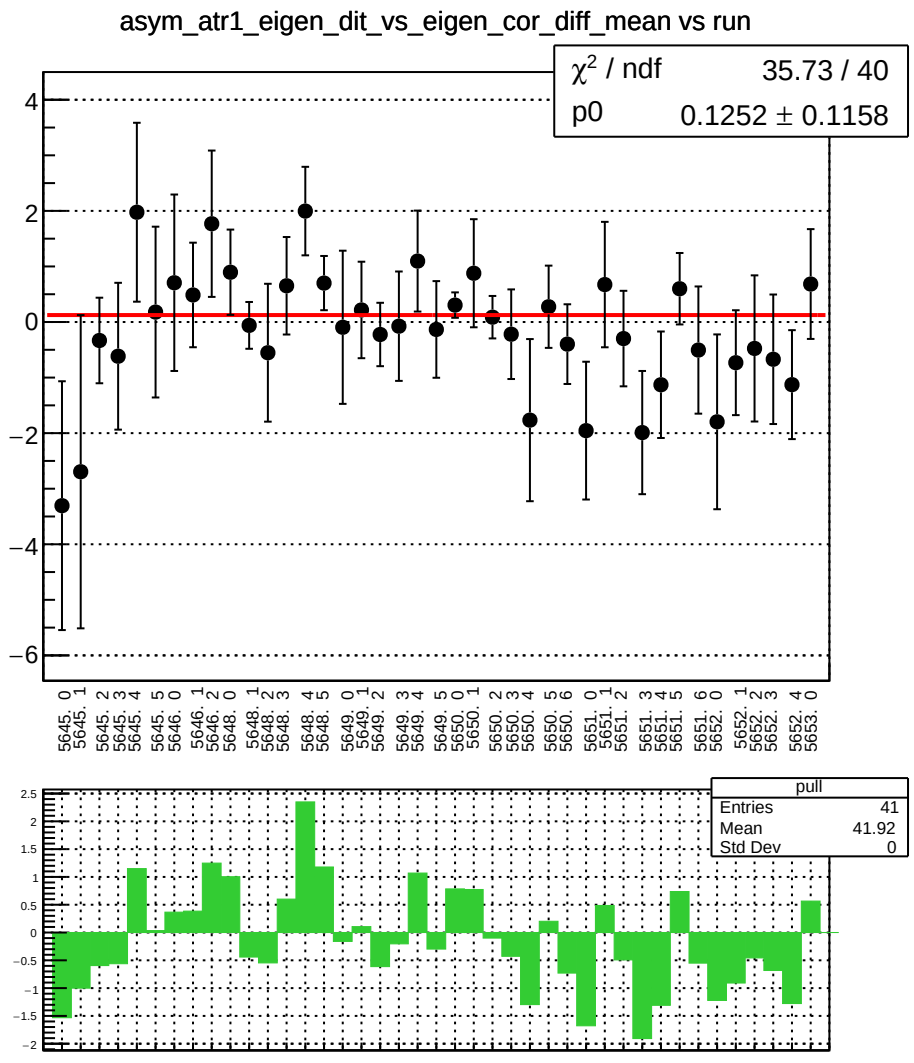

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.18 / 40
p0 −2.328e−07 ± 2.101e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −175.8
Std Dev 0
2
1
0
−1
−2

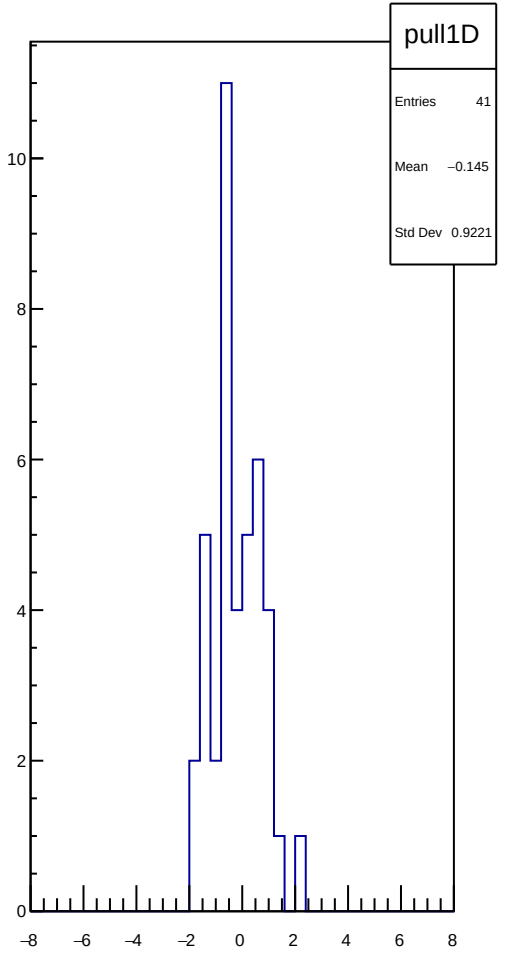

pull1D
Entries 41
Mean −0.00757
Std Dev 1.106
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

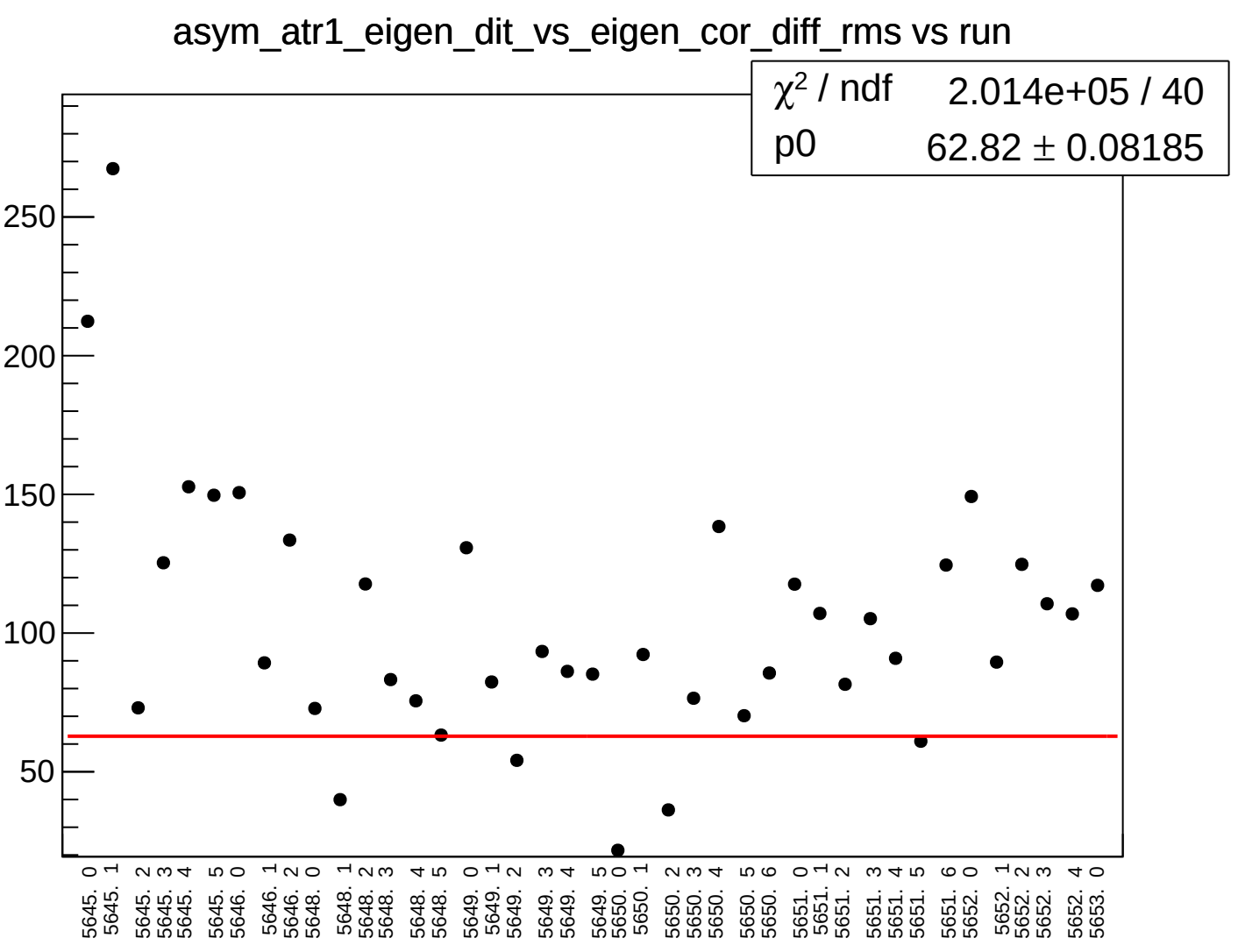

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4632 / 40
p0 0.001317 ± 1.486e−06
0.0016
0.0015
0.0014
0.0013
0.0012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

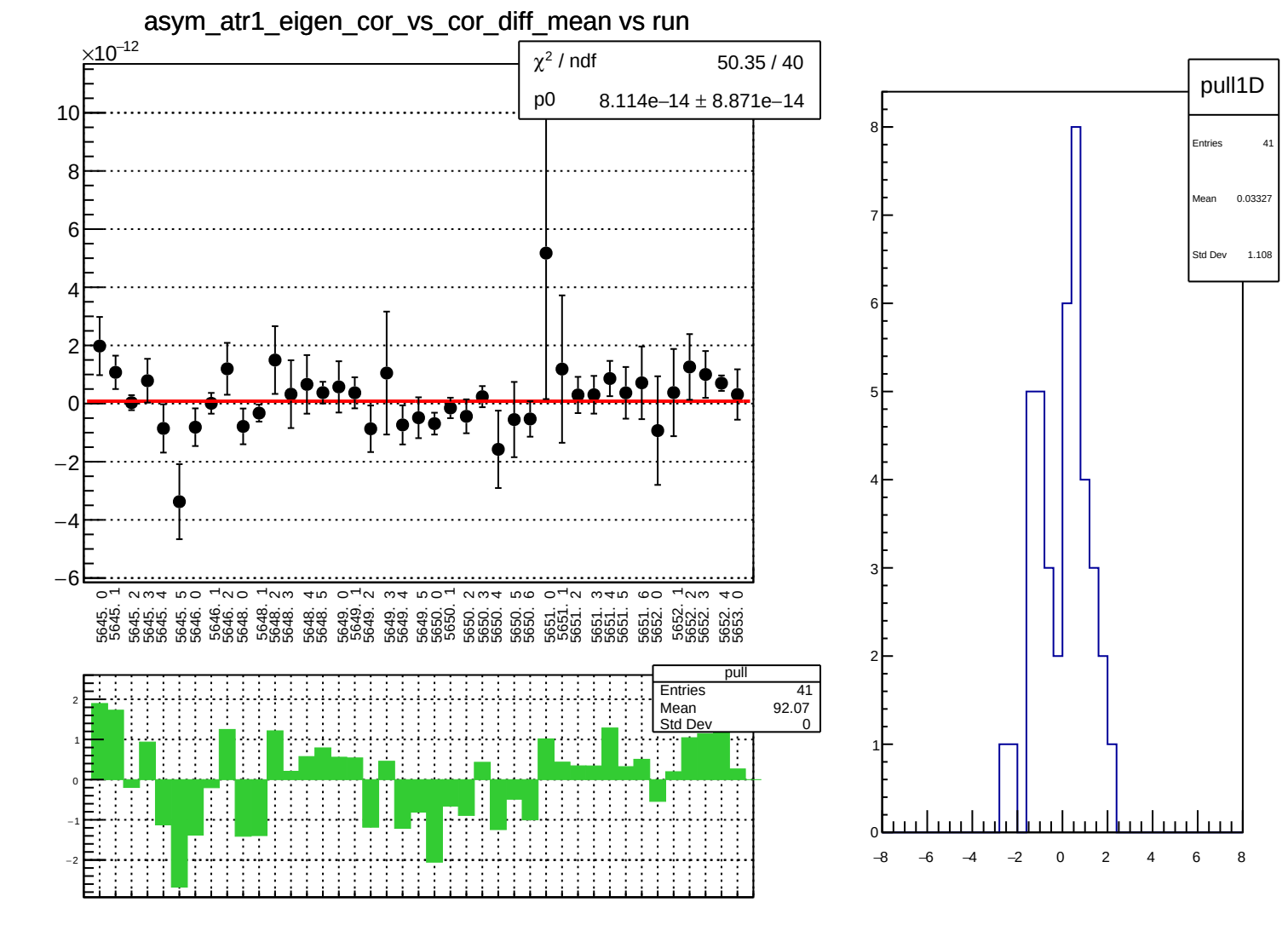

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.73 / 40
p0 0.1252 ± 0.1158
pull
Entries 41
Mean 41.92
Std Dev 0
pull1D
Entries 41
Mean −0.145
Std Dev 0.9221

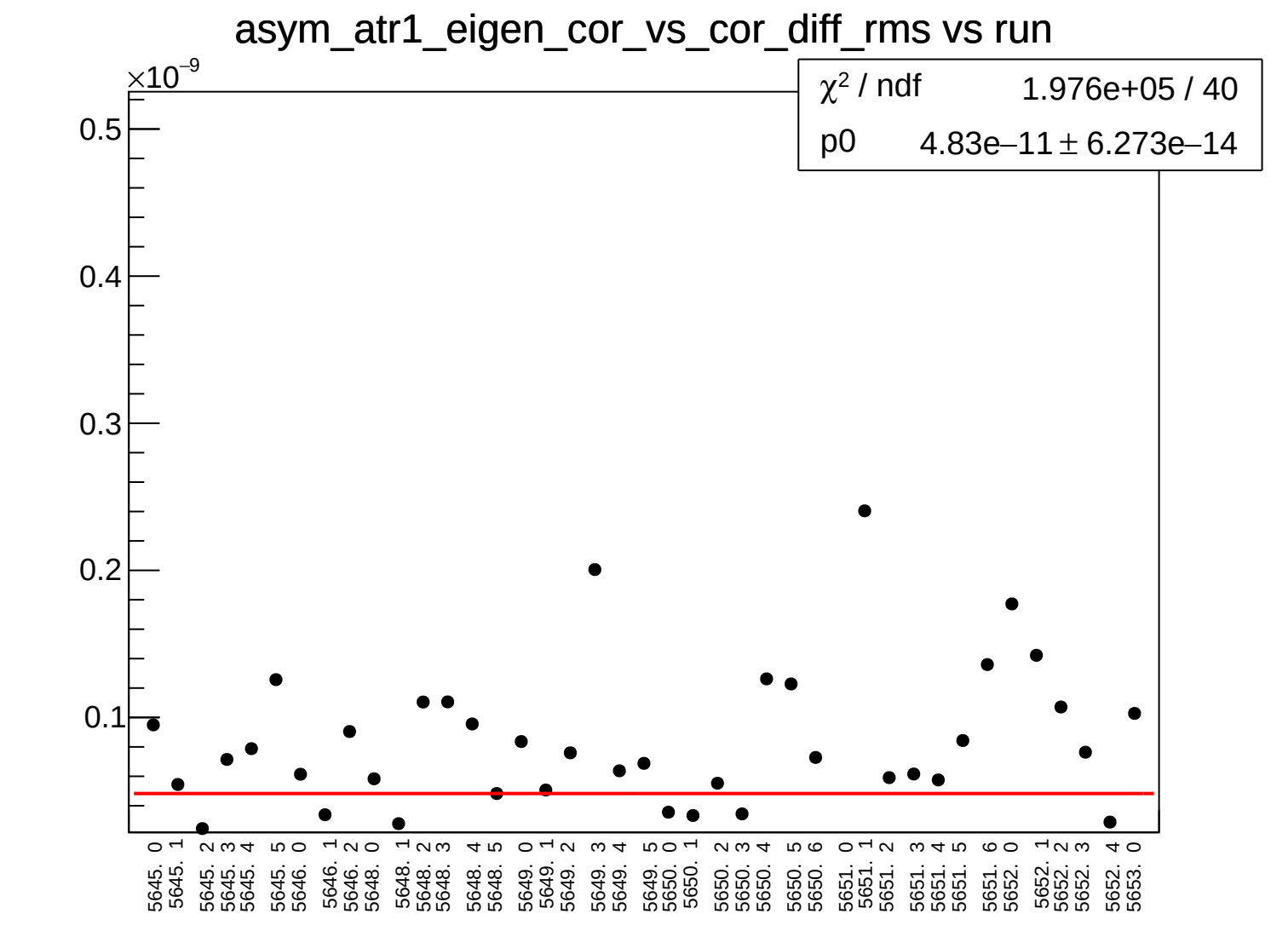

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 40
p0 62.82 ± 0.08185
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

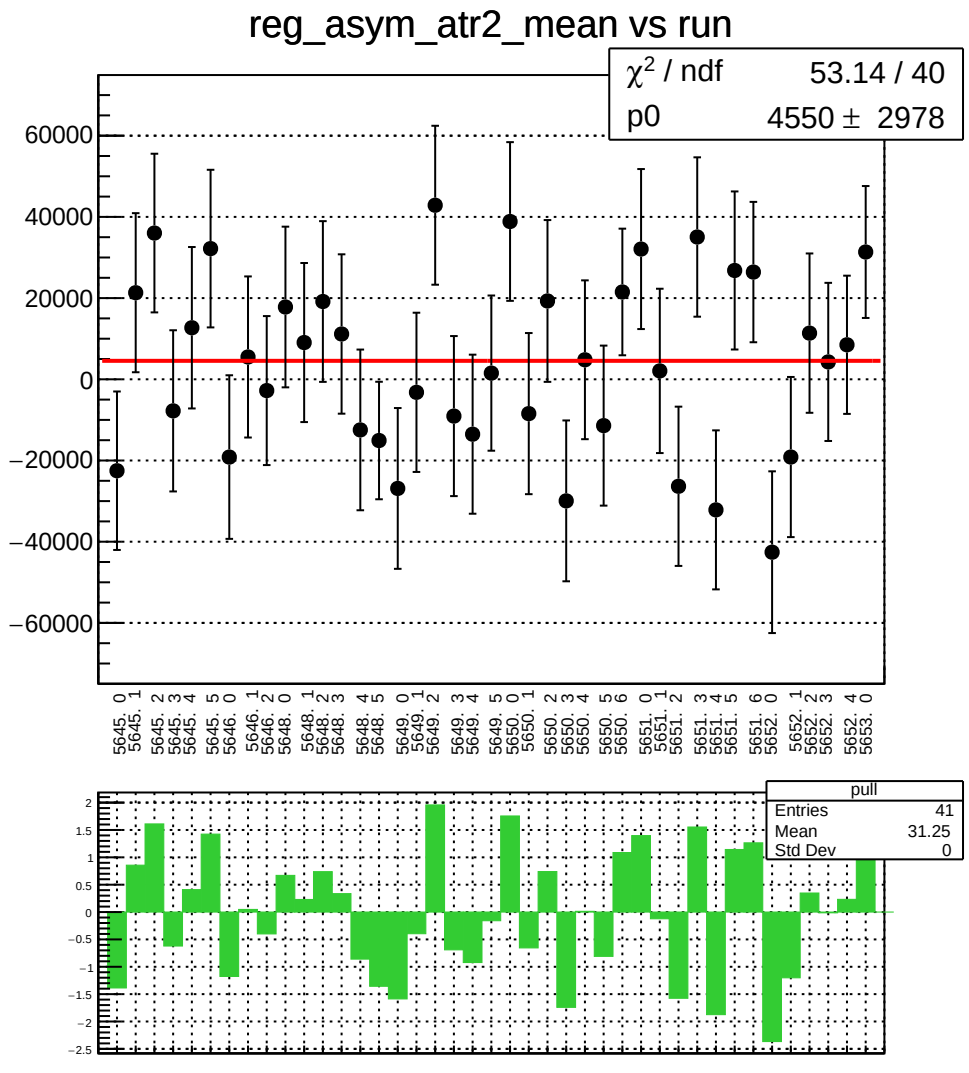

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.73 / 40
p0 0.1252 ± 0.1158
pull
Entries 41
Mean 41.92
Std Dev 0

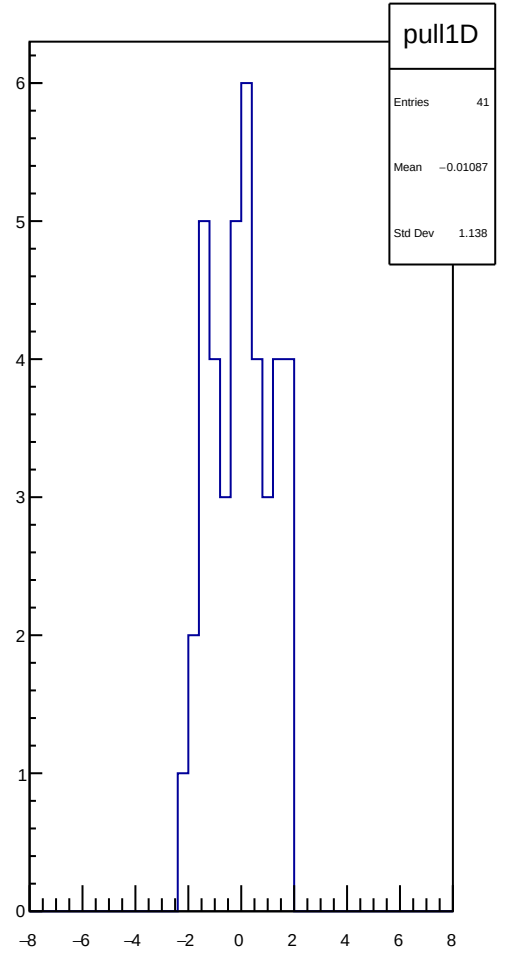

pull1D
Entries 41
Mean −0.145
Std Dev 0.9221

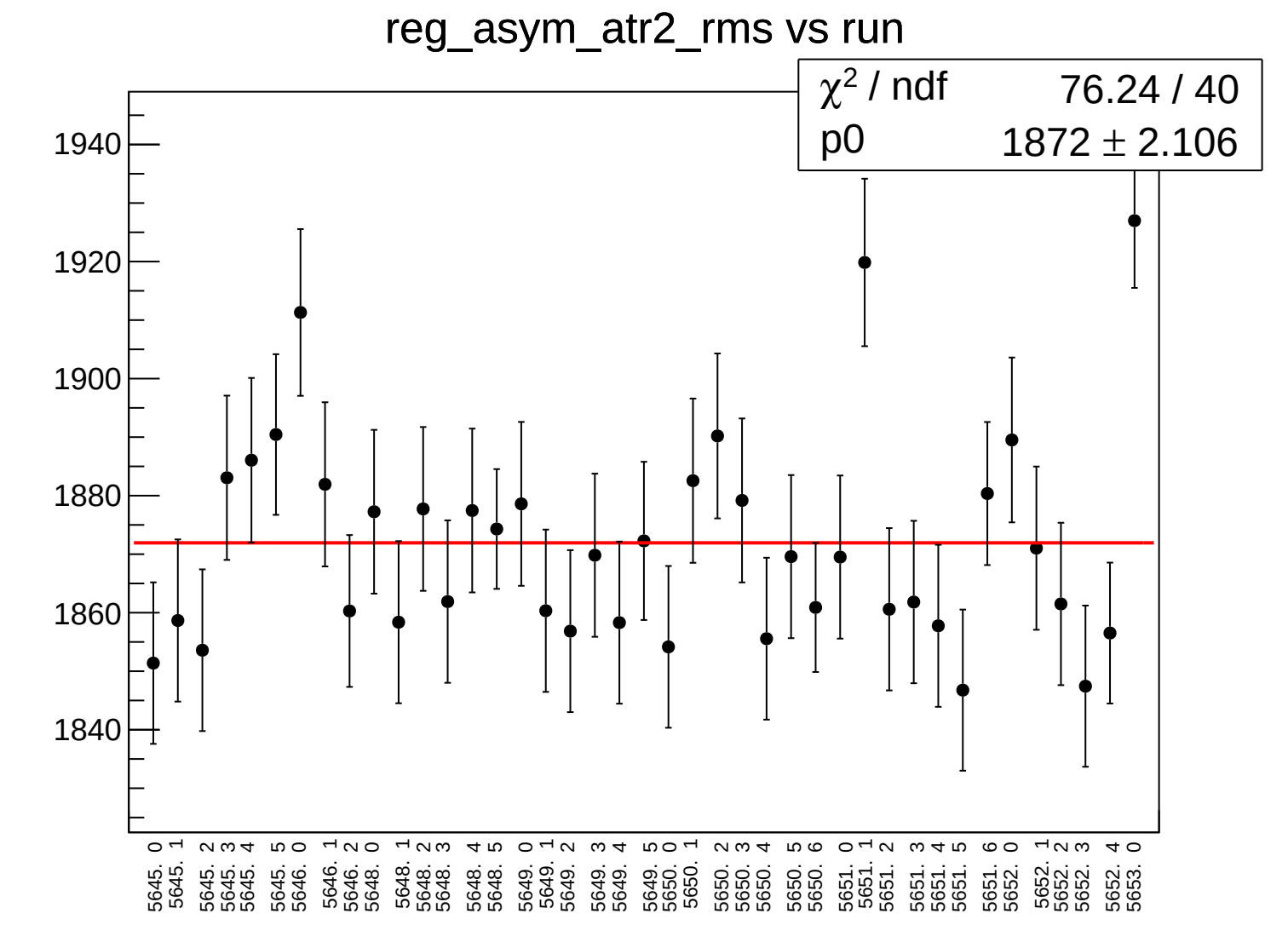

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.014e+05 / 40
p0 62.82 ± 0.08185
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

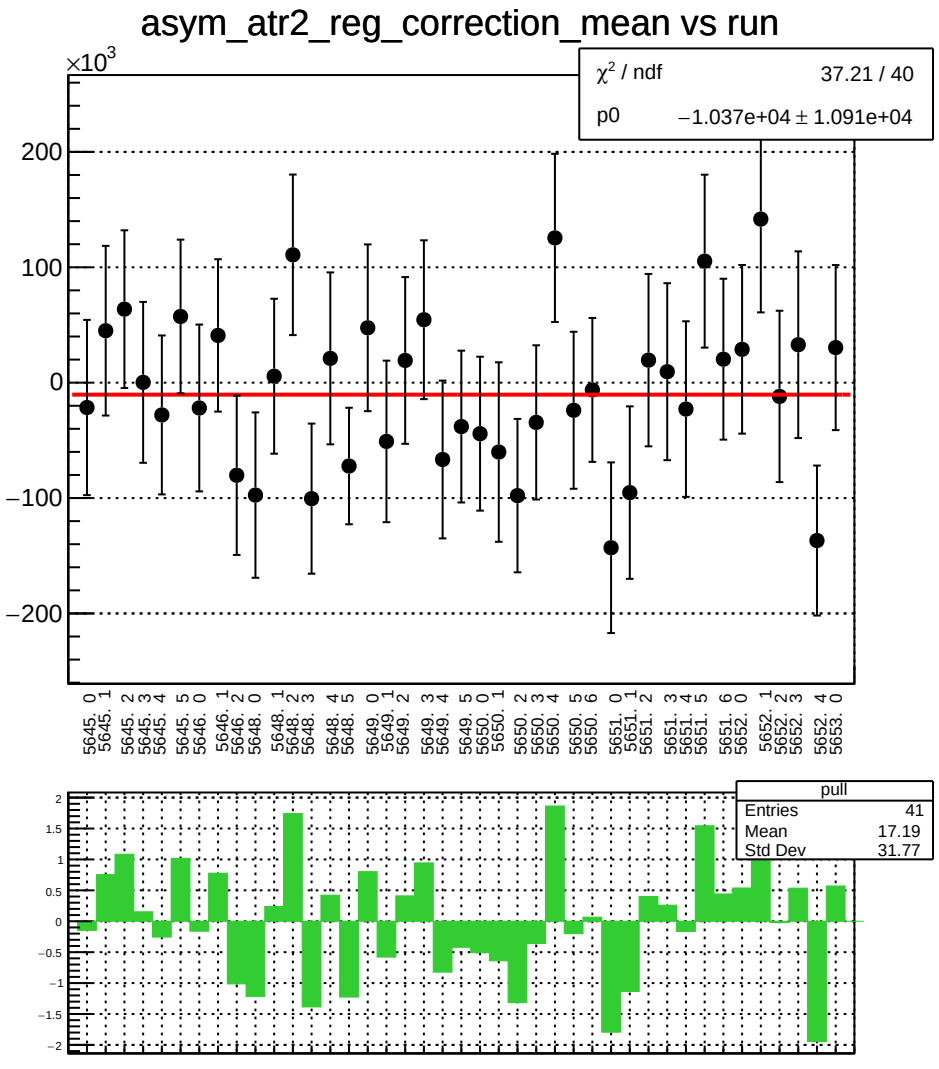

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.35 / 40
p0 8.114e−14 ± 8.871e−14
pull
Entries 41
Mean 92.07
Std Dev 0
pull1D
Entries 41
Mean 0.03327
Std Dev 1.108

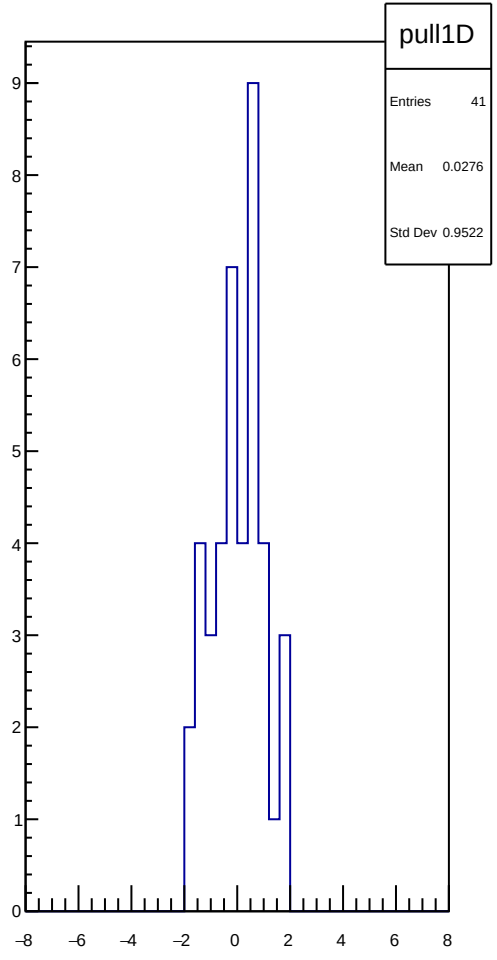

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.976e+05 / 40
p0 4.83e−11 ± 6.273e−14
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

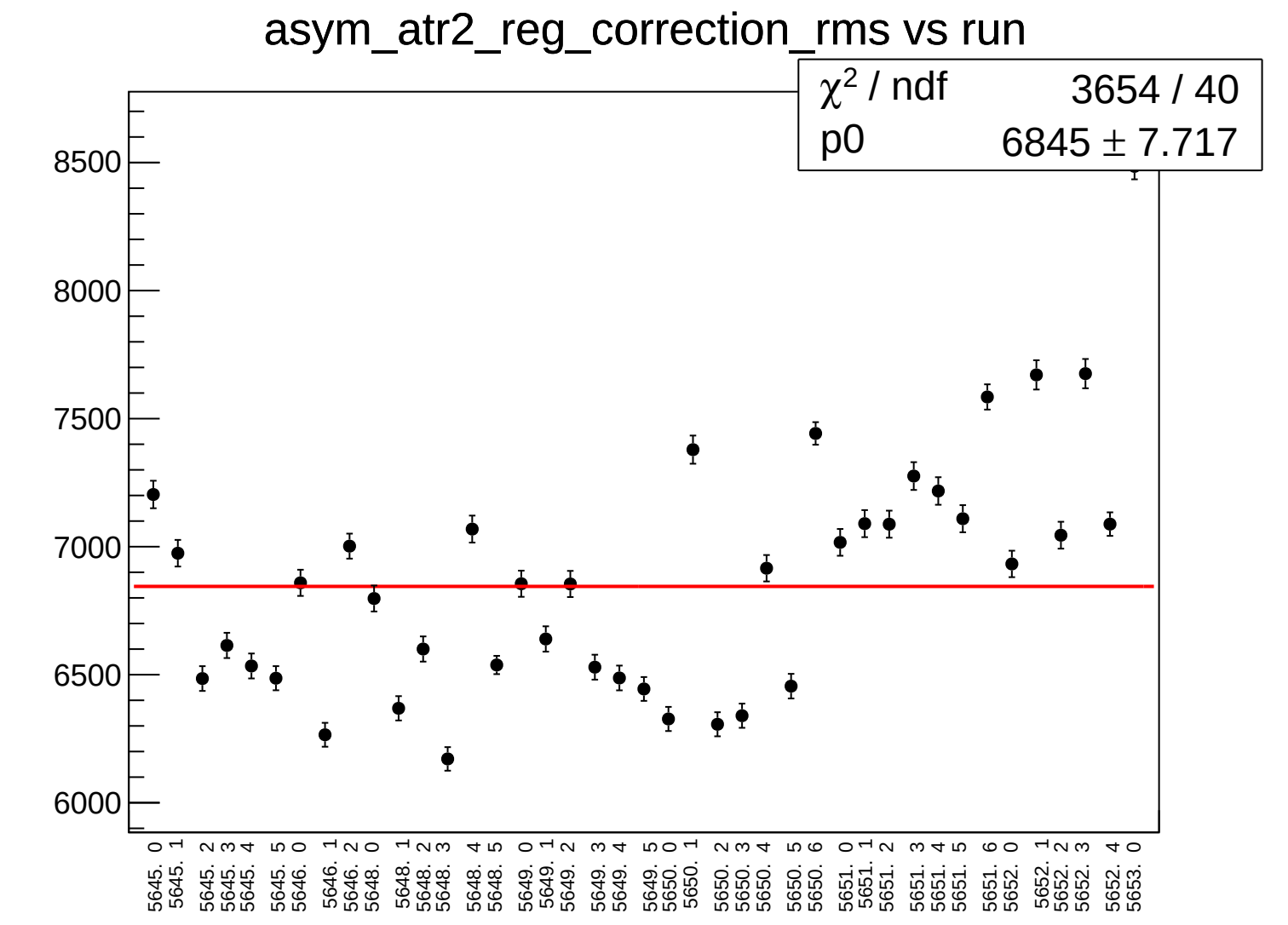

reg_asym_atr2_mean vs run
χ² / ndf 53.14 / 40
p0 4550 ± 2978
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 31.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

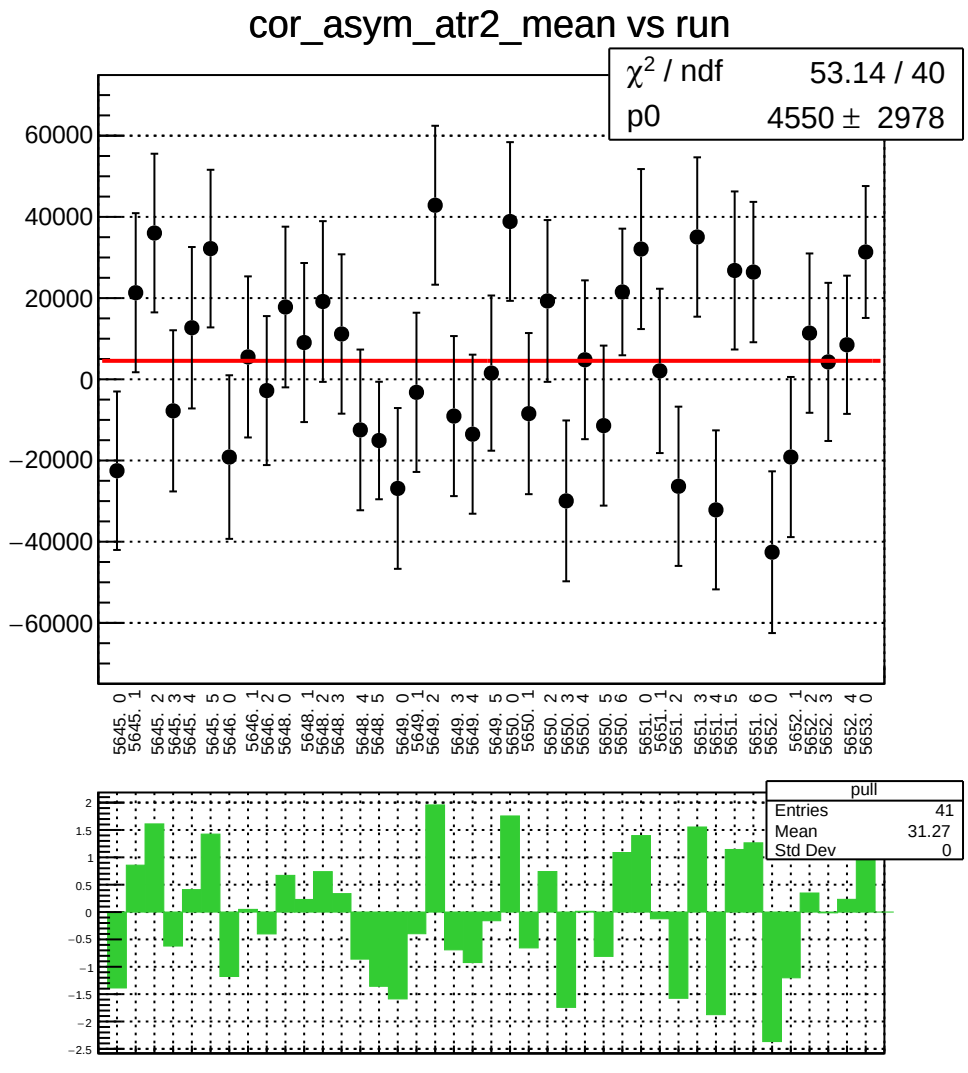

pull1D
Entries 41
Mean −0.01087
Std Dev 1.138
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

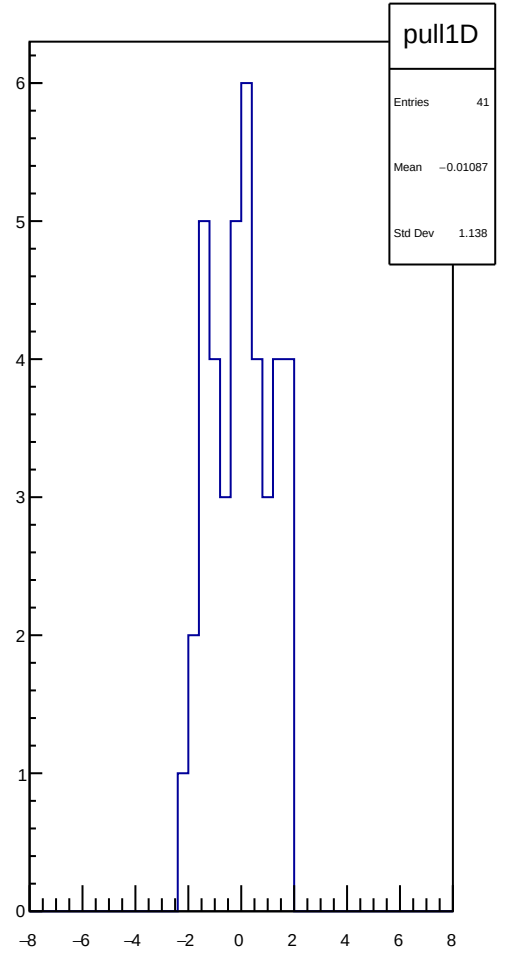

reg_asym_atr2_rms vs run
χ² / ndf 76.24 / 40
p0 1872 ± 2.106
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

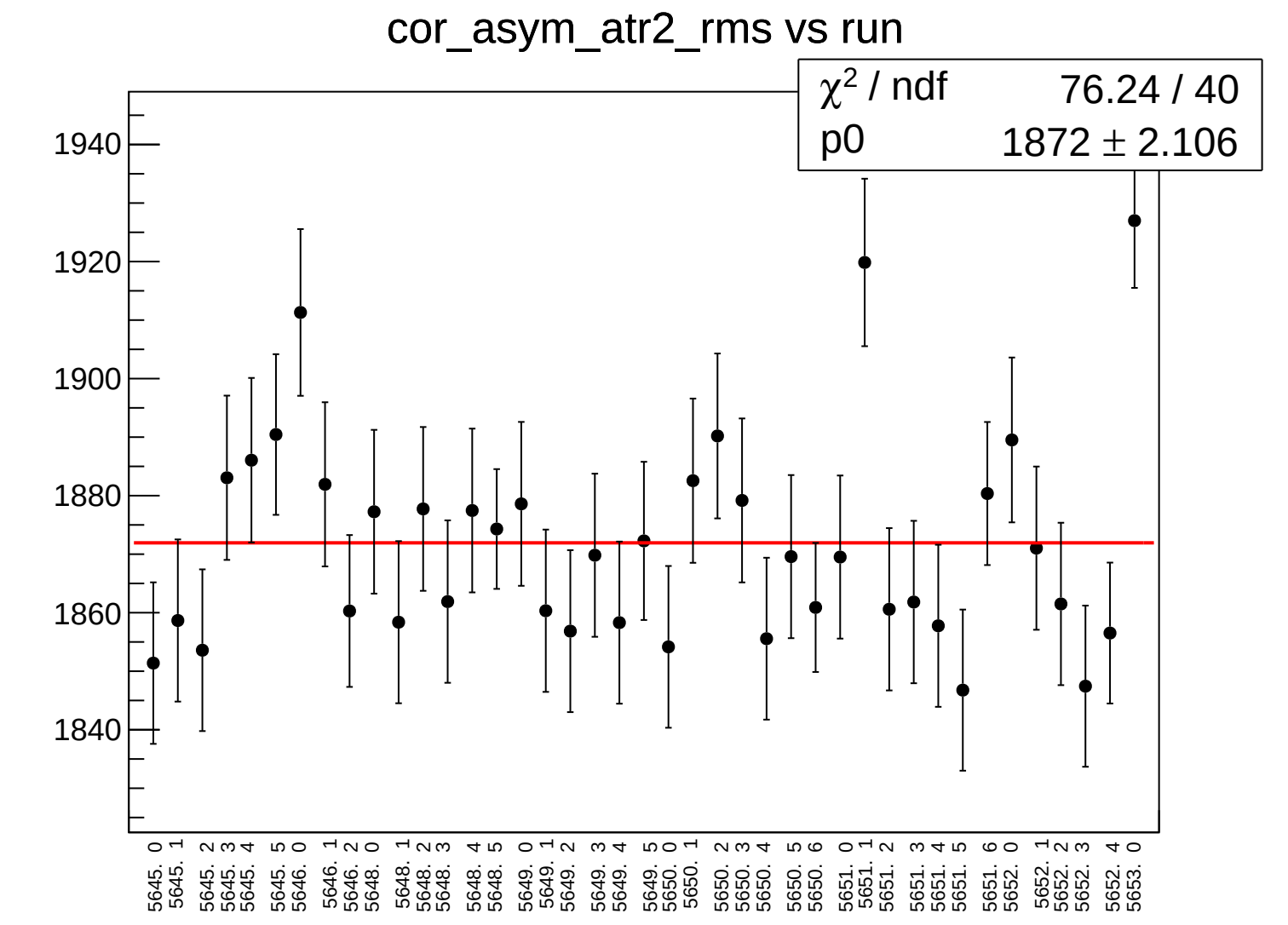

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 37.21 / 40
p0 −1.037e+04 ± 1.091e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.19
Std Dev 31.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

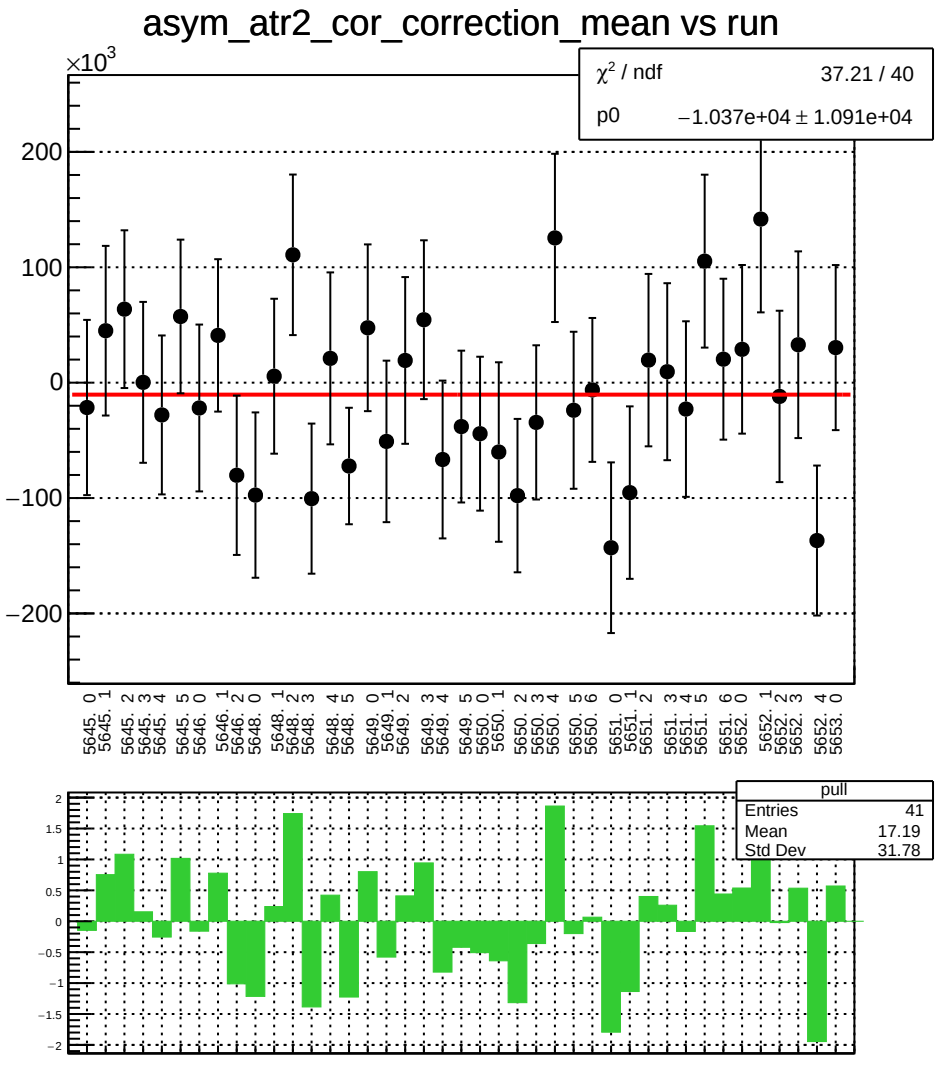

pull1D
Entries 41
Mean 0.0276
Std Dev 0.9522
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

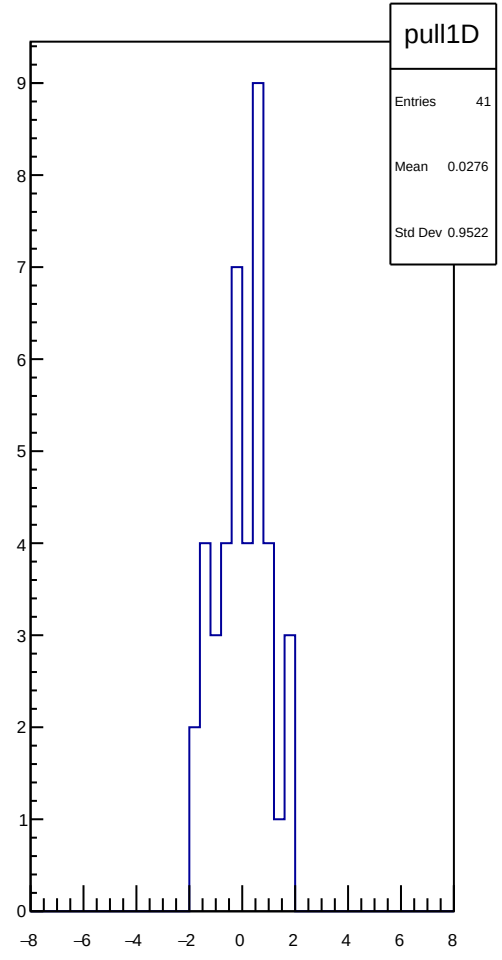

asym_atr2_reg_correction_rms vs run
χ² / ndf 3654 / 40
p0 6845 ± 7.717
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

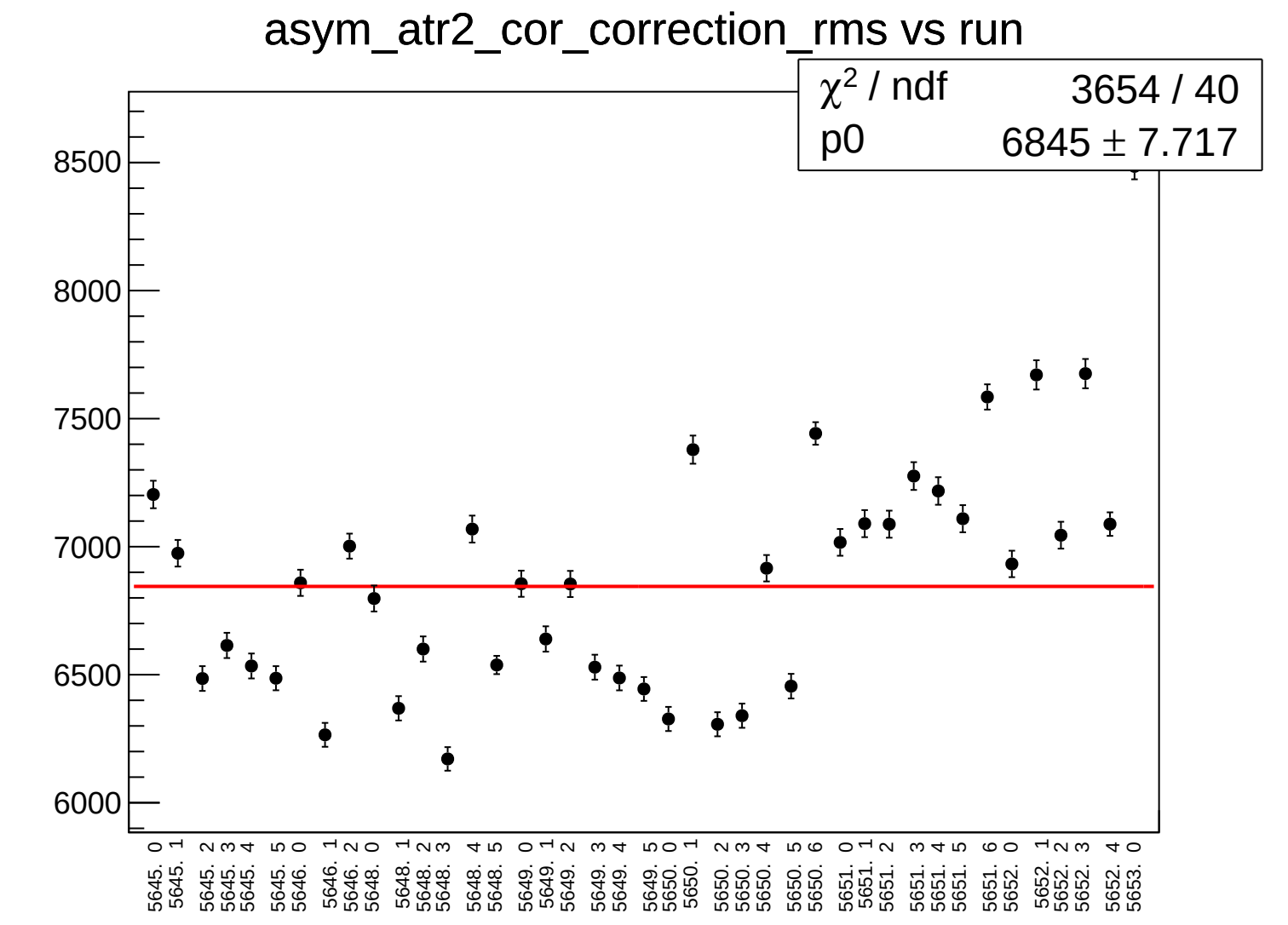

cor_asym_atr2_mean vs run
χ² / ndf 53.14 / 40
p0 4550 ± 2978
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 31.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

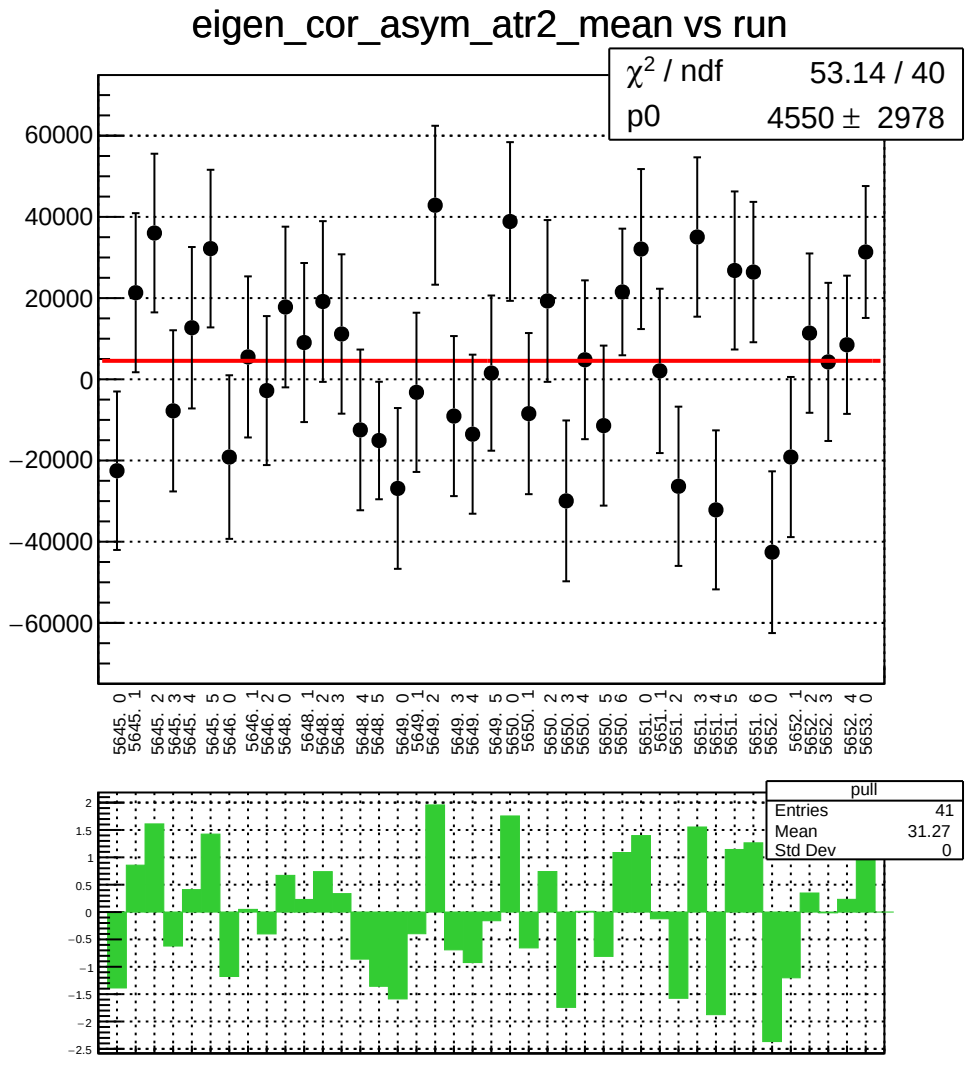

pull1D
Entries 41
Mean −0.01087
Std Dev 1.138
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

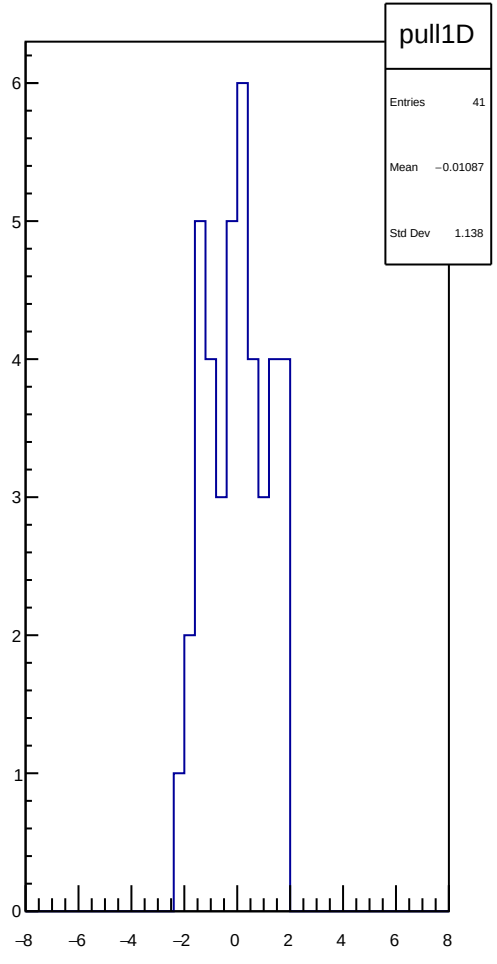

cor_asym_atr2_rms vs run
χ² / ndf 76.24 / 40
p0 1872 ± 2.106
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

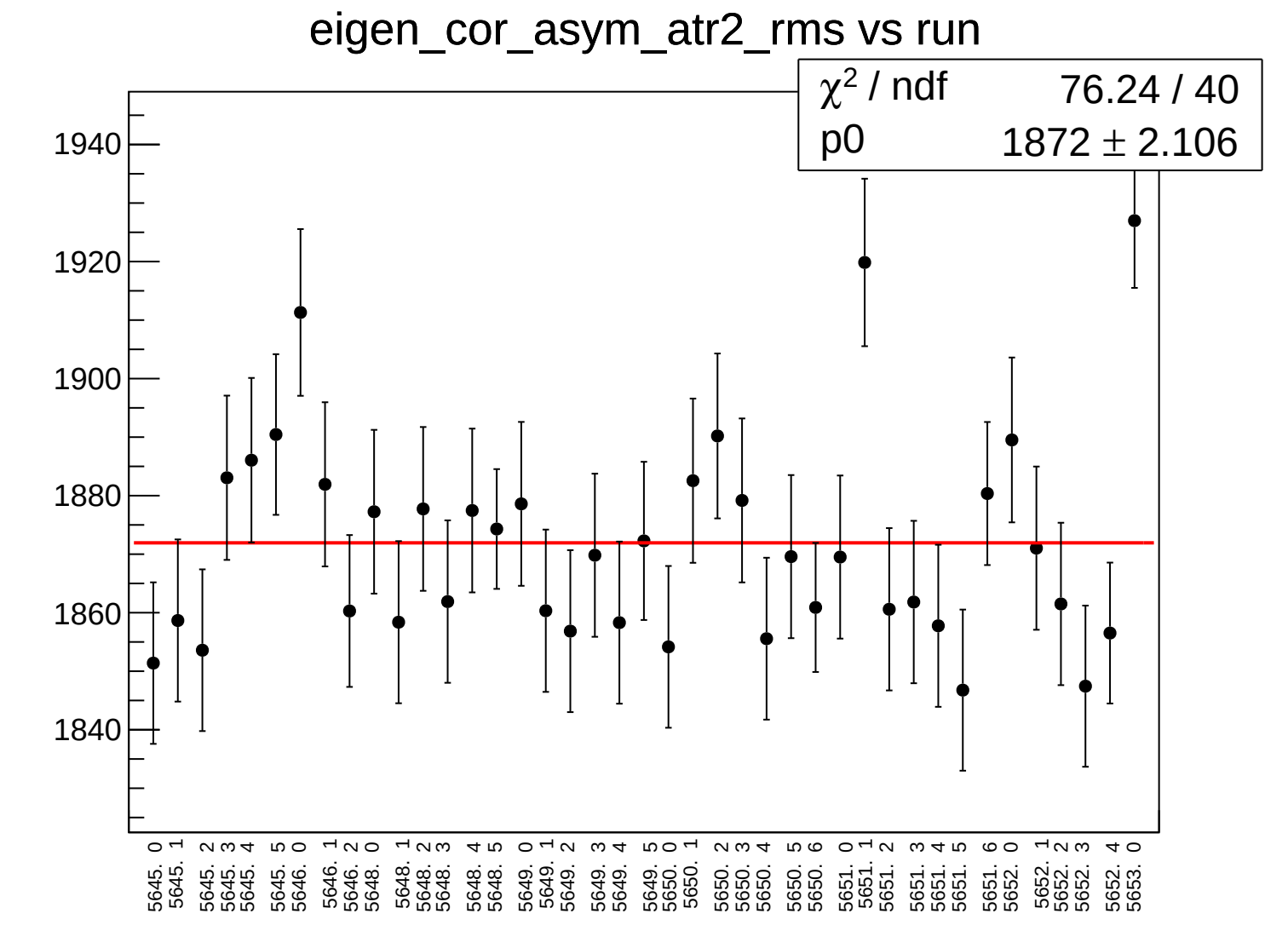

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 37.21 / 40
p0 −1.037e+04 ± 1.091e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.19
Std Dev 31.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

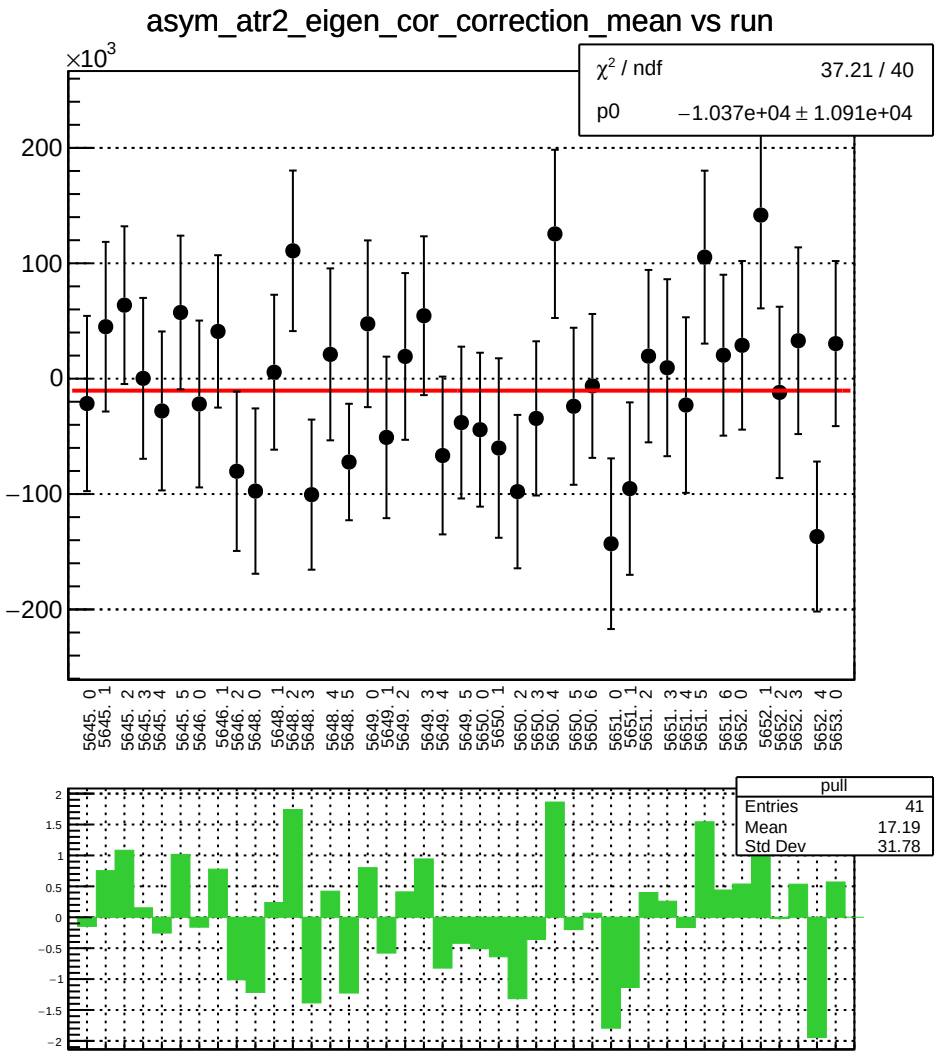

pull1D
Entries 41
Mean 0.0276
Std Dev 0.9522
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

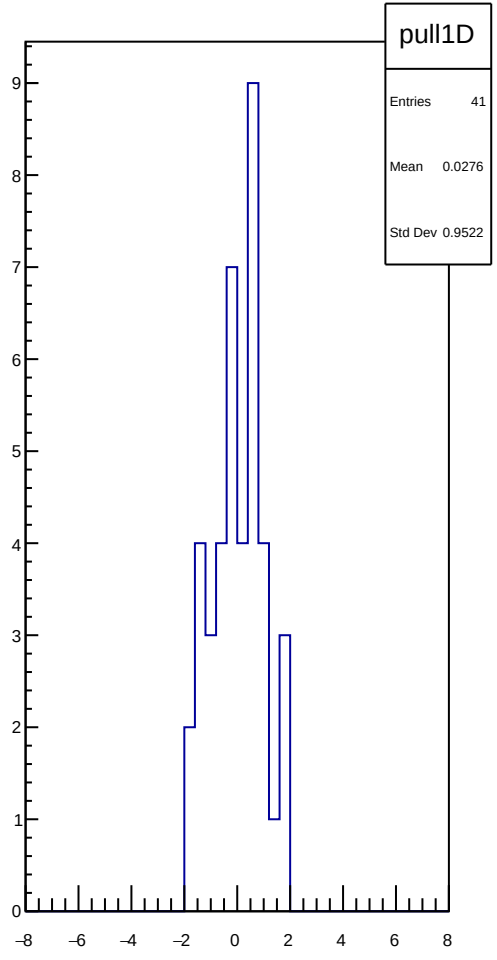

asym_atr2_cor_correction_rms vs run
χ² / ndf 3654 / 40
p0 6845 ± 7.717
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

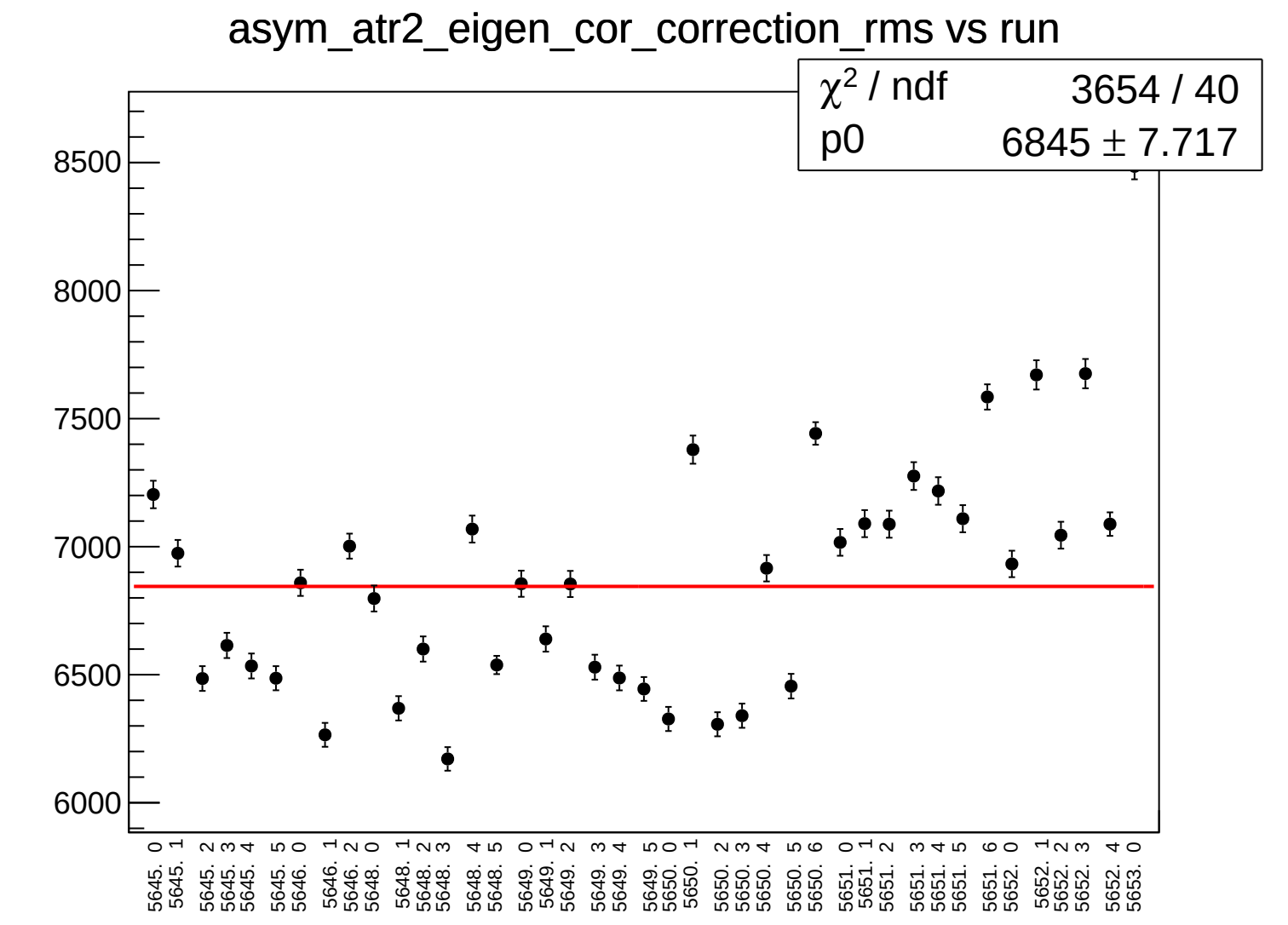

eigen_cor_asym_atr2_mean vs run
χ² / ndf 53.14 / 40
p0 4550 ± 2978
pull
Entries 41
Mean 31.27
Std Dev 0

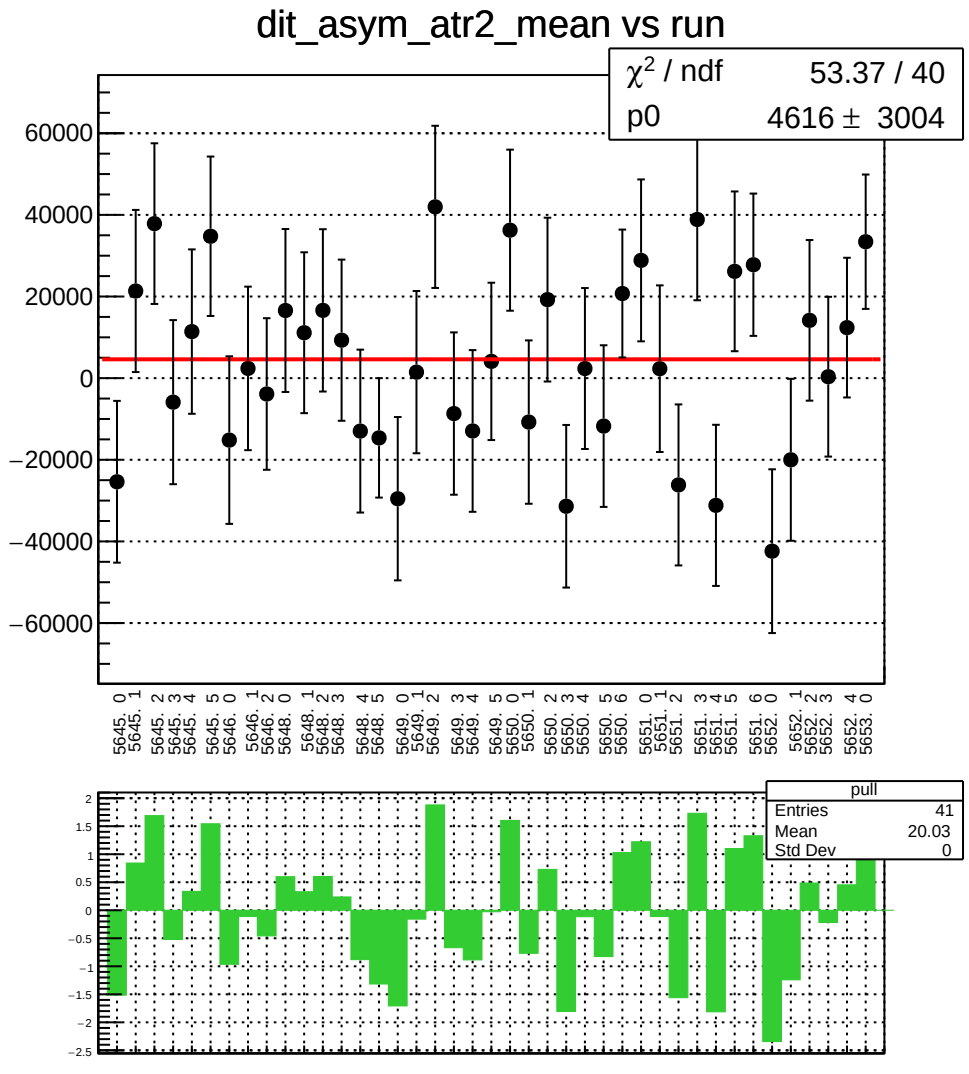

pull1D
Entries 41
Mean −0.01087
Std Dev 1.138

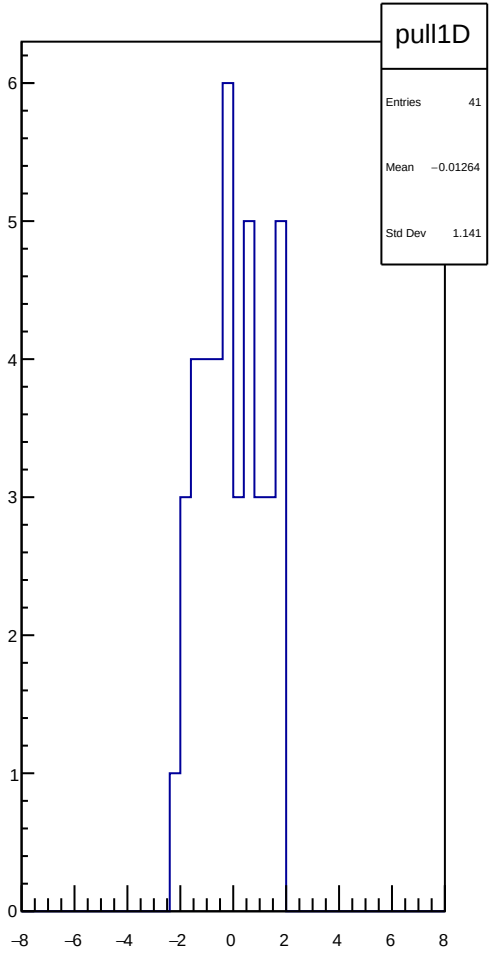

eigen_cor_asym_atr2_rms vs run
χ² / ndf 76.24 / 40
p0 1872 ± 2.106
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

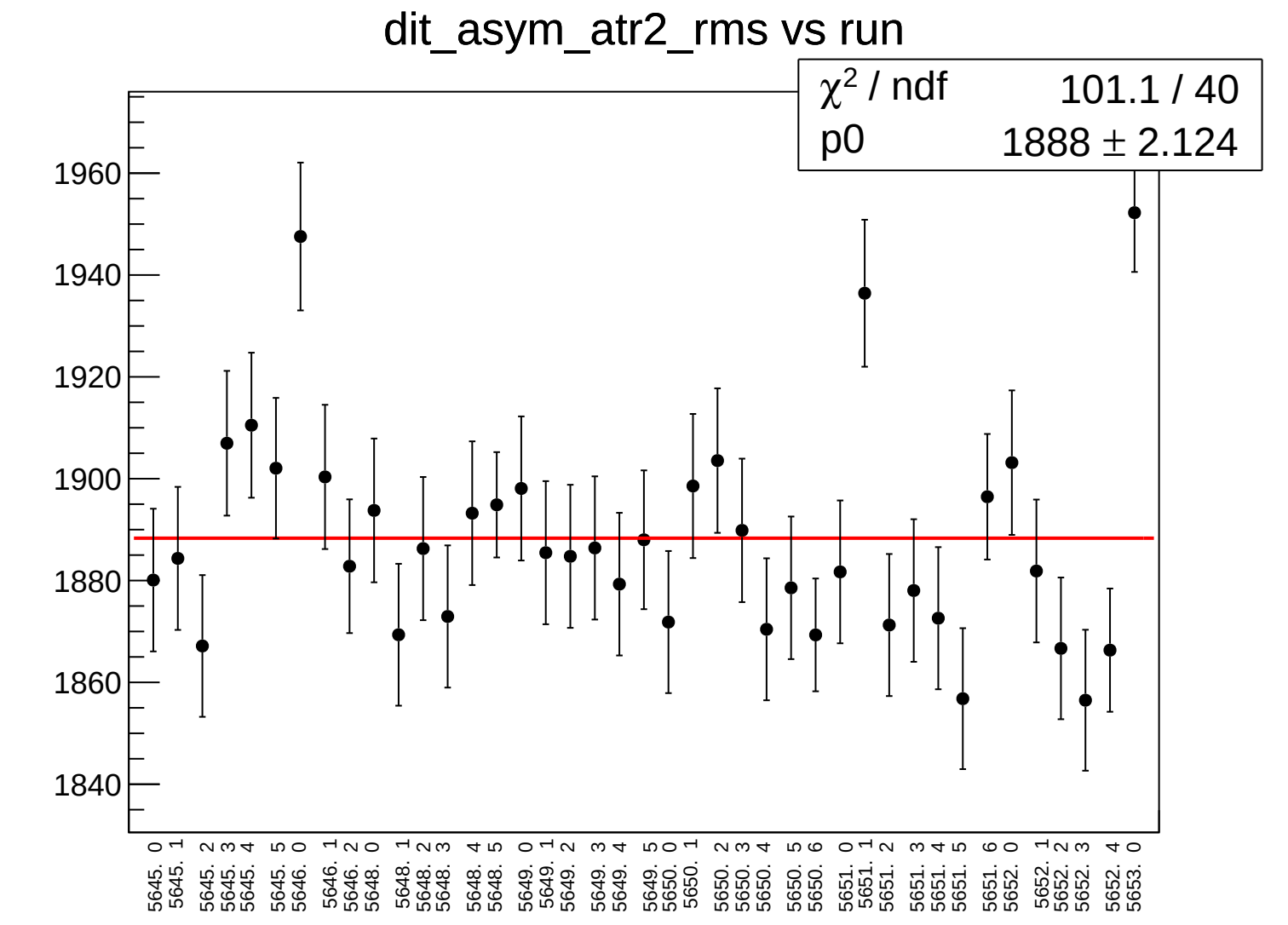

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 37.21 / 40
p0 −1.037e+04 ± 1.091e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.19
Std Dev 31.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

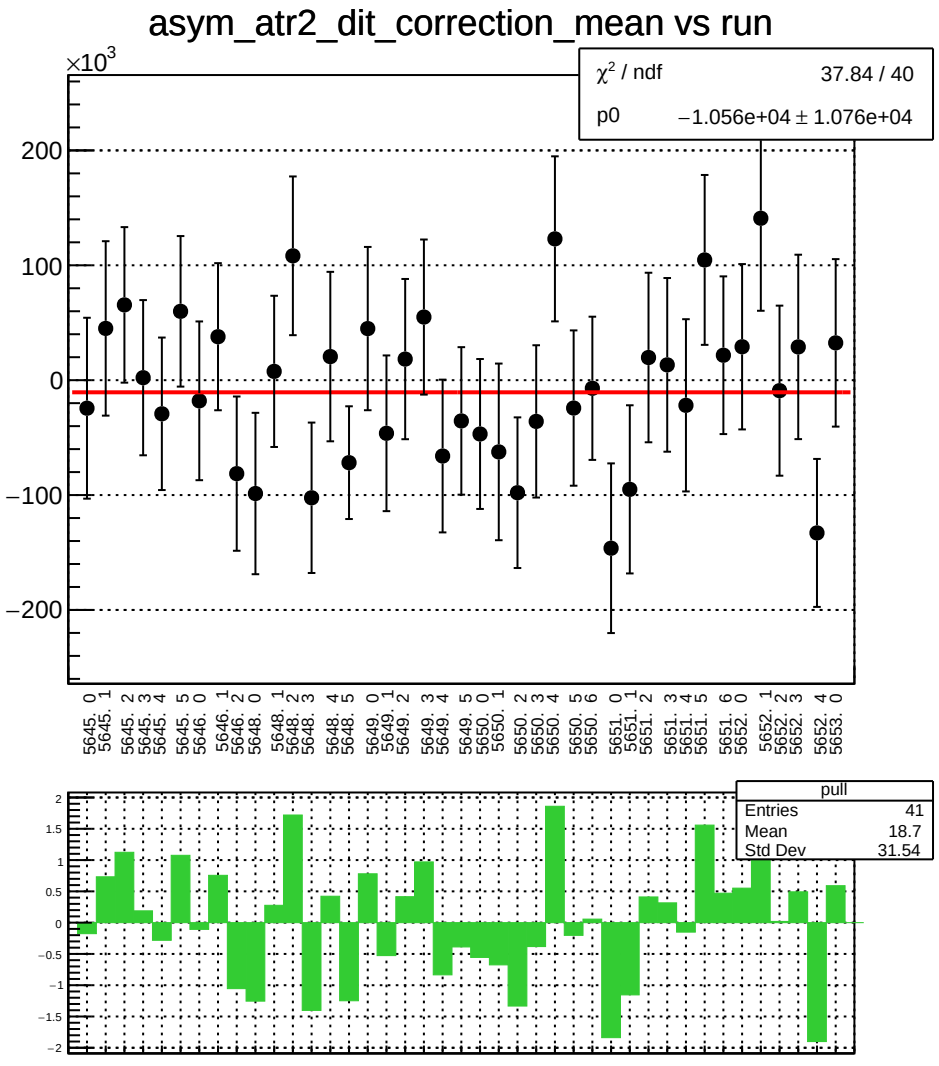

pull1D
Entries 41
Mean 0.0276
Std Dev 0.9522
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

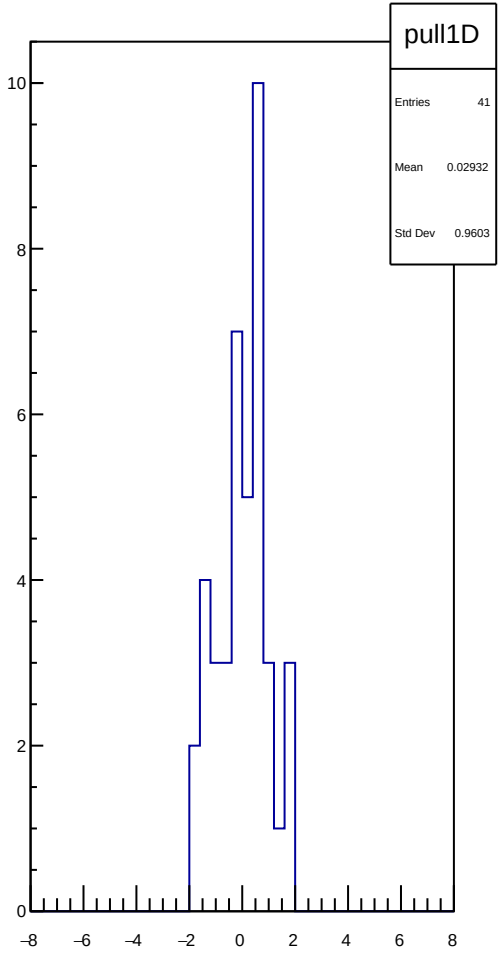

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3654 / 40
p0 6845 ± 7.717
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

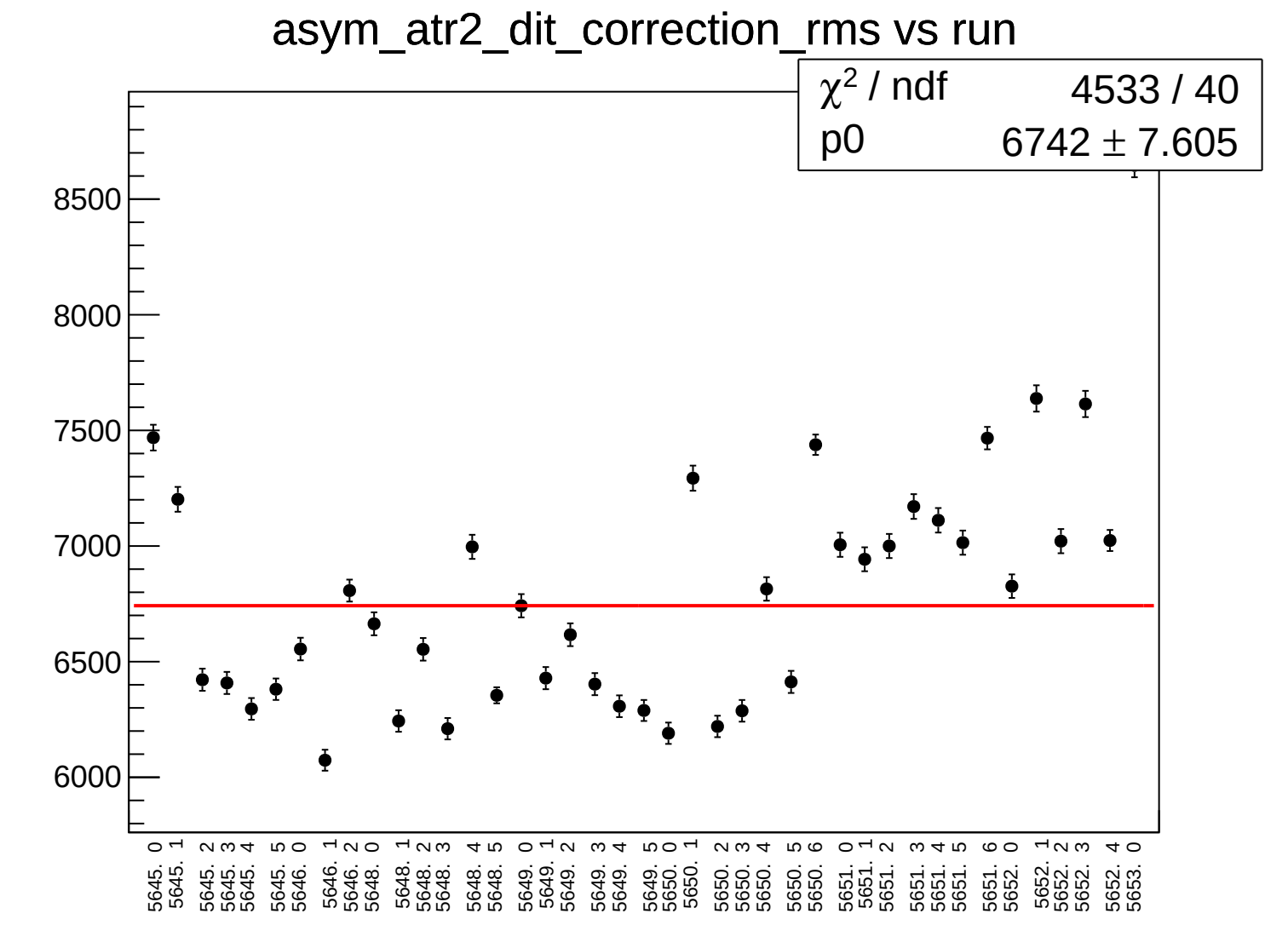

dit_asym_atr2_mean vs run
χ² / ndf 53.37 / 40
p0 4616 ± 3004
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

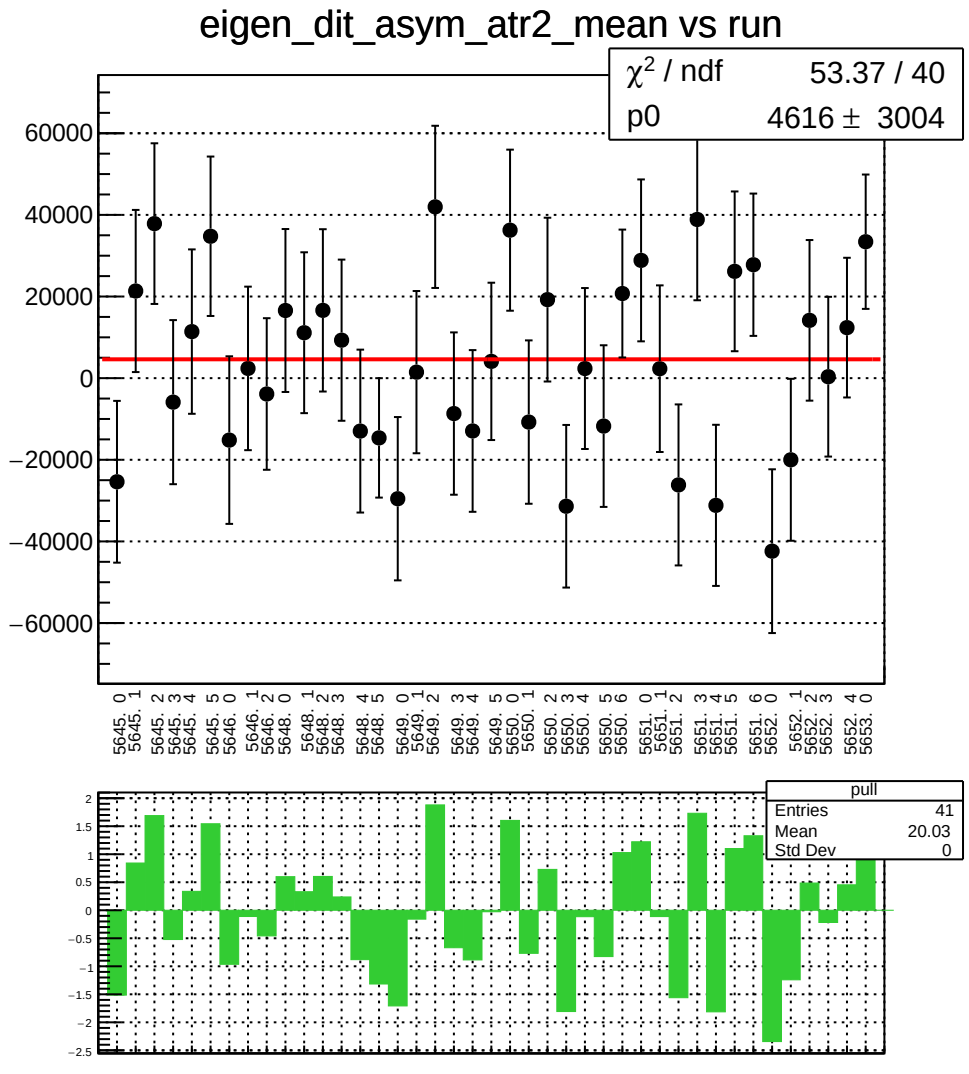

pull1D
Entries 41
Mean −0.01264
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

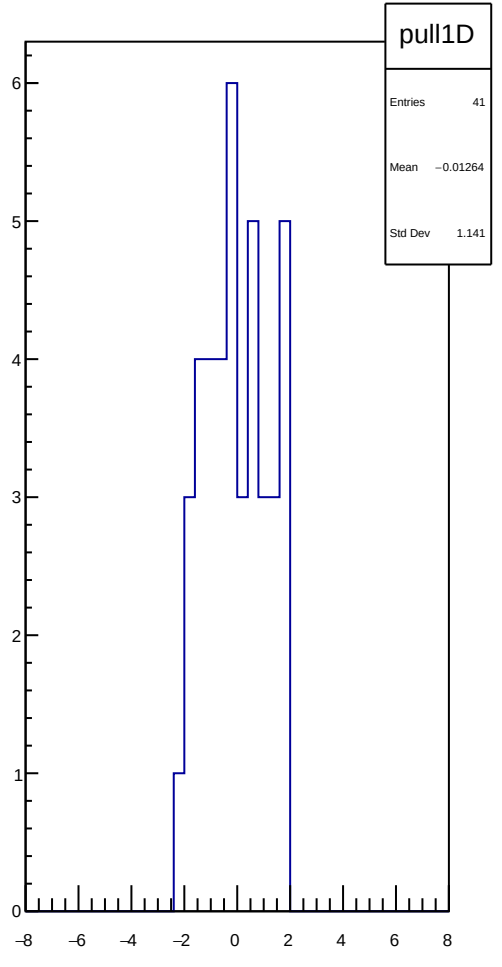

dit_asym_atr2_rms vs run
χ² / ndf 101.1 / 40
p0 1888 ± 2.124
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

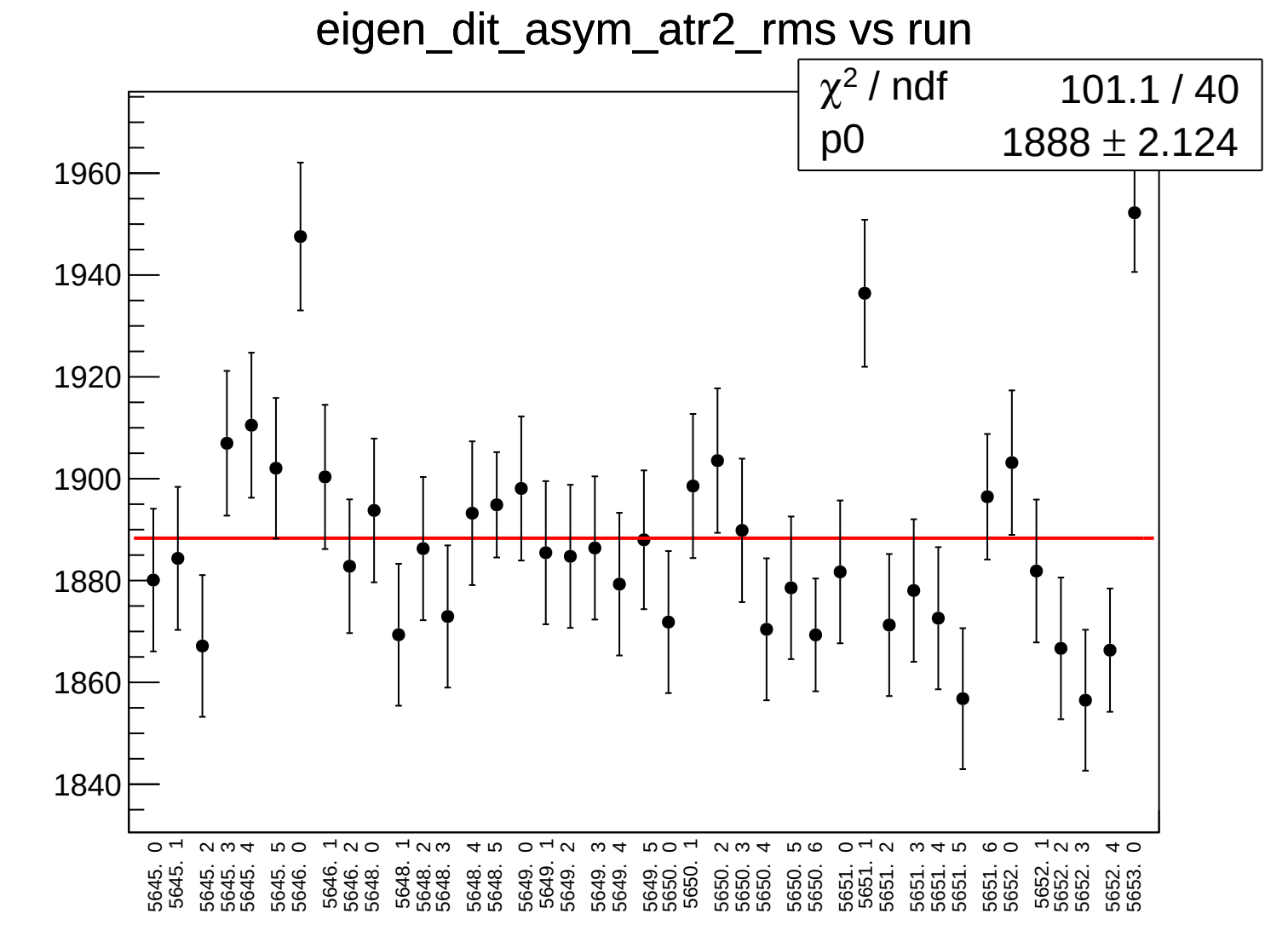

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 37.84 / 40
p0 −1.056e+04 ± 1.076e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.7
Std Dev 31.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

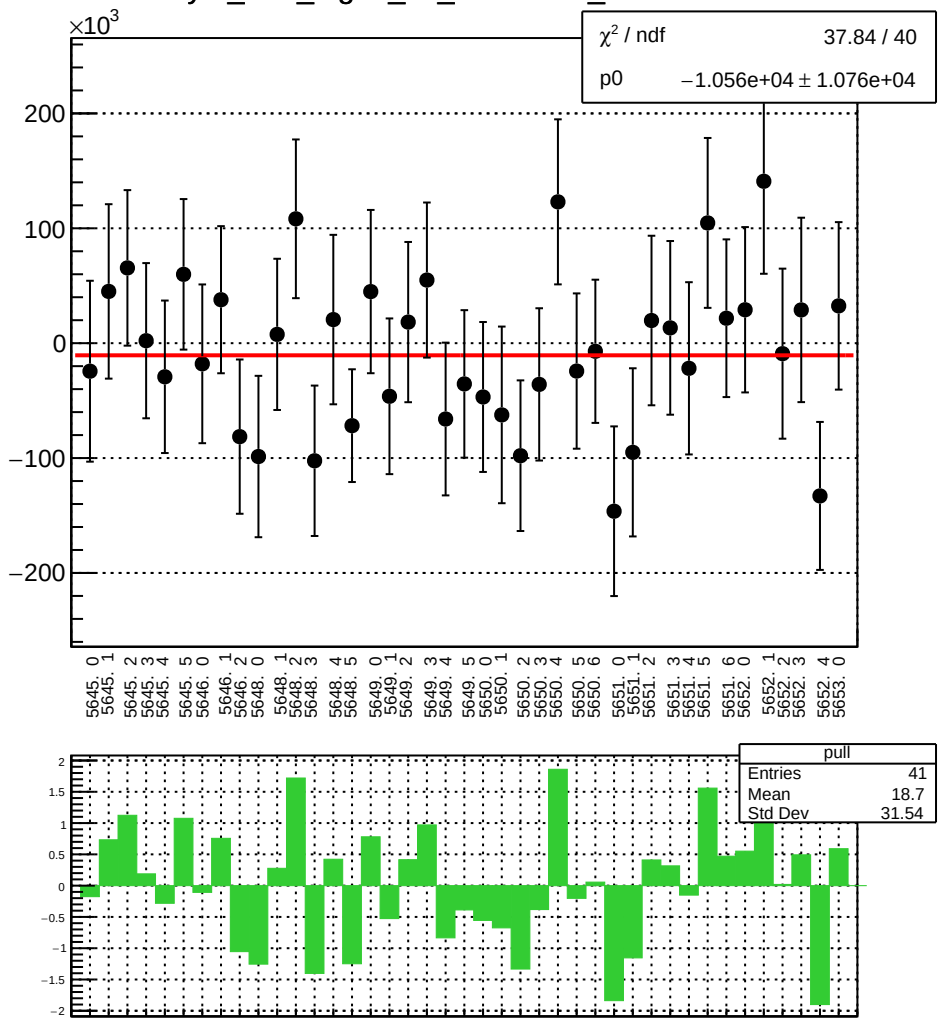

pull1D
Entries 41
Mean 0.02932
Std Dev 0.9603
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

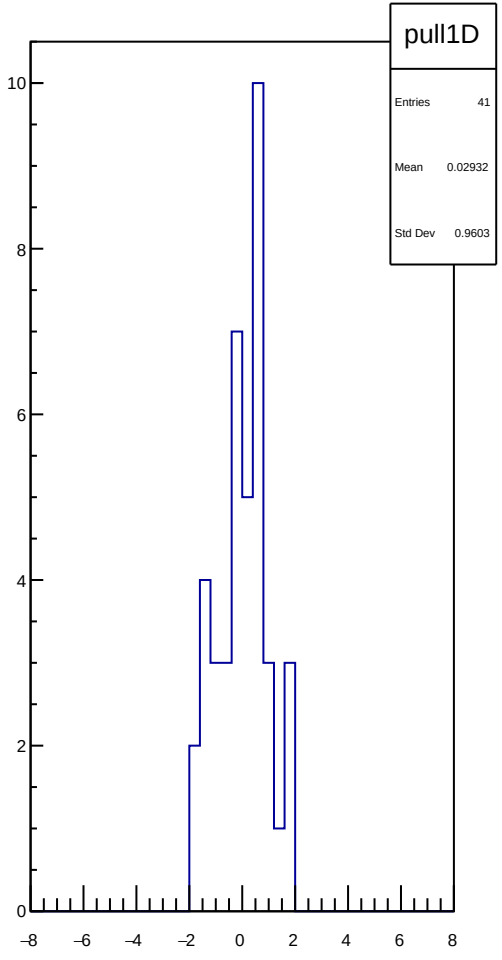

asym_atr2_dit_correction_rms vs run
χ² / ndf 4533 / 40
p0 6742 ± 7.605
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

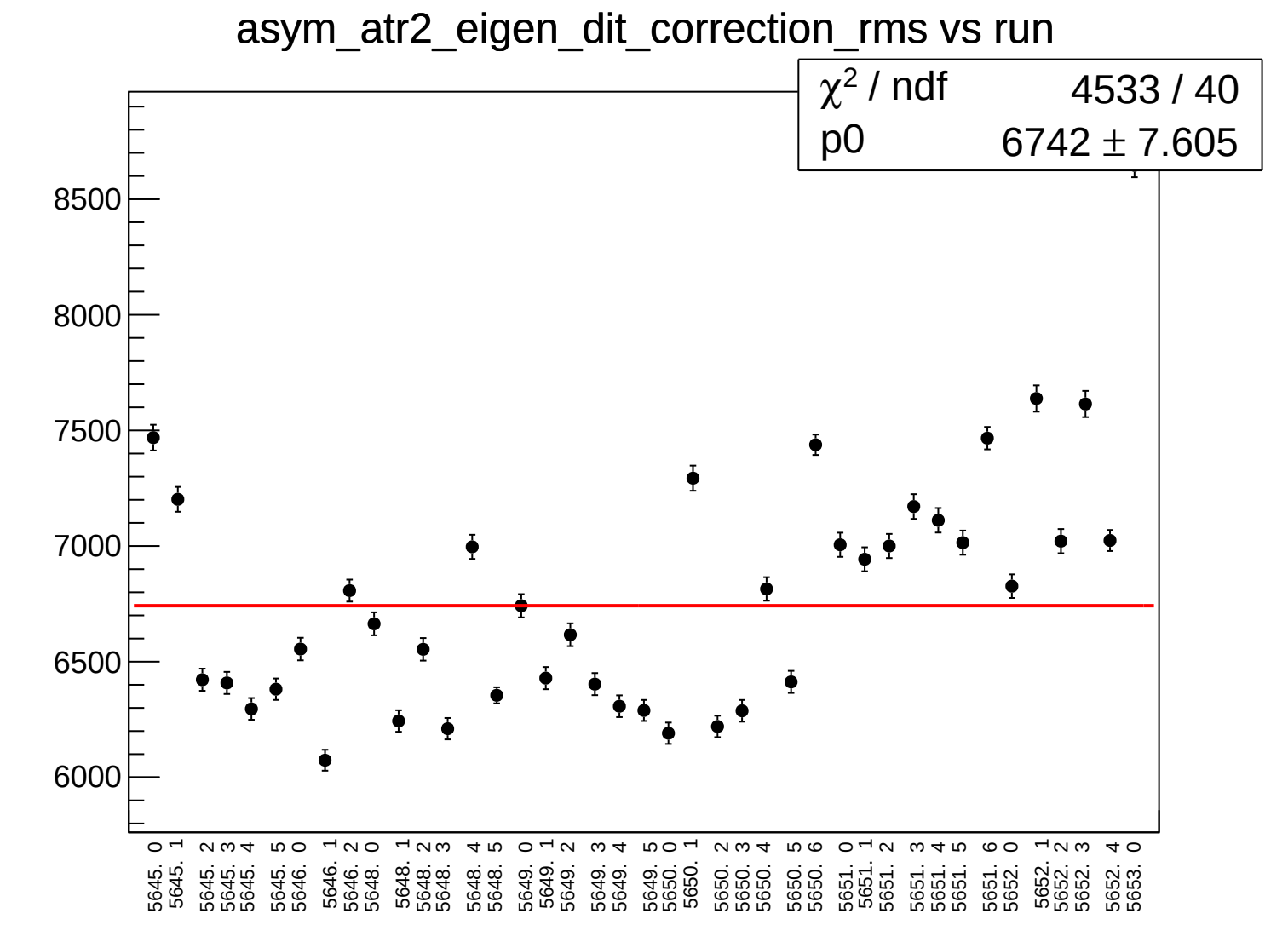

eigen_dit_asym_atr2_mean vs run
χ² / ndf 53.37 / 40
p0 4616 ± 3004
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

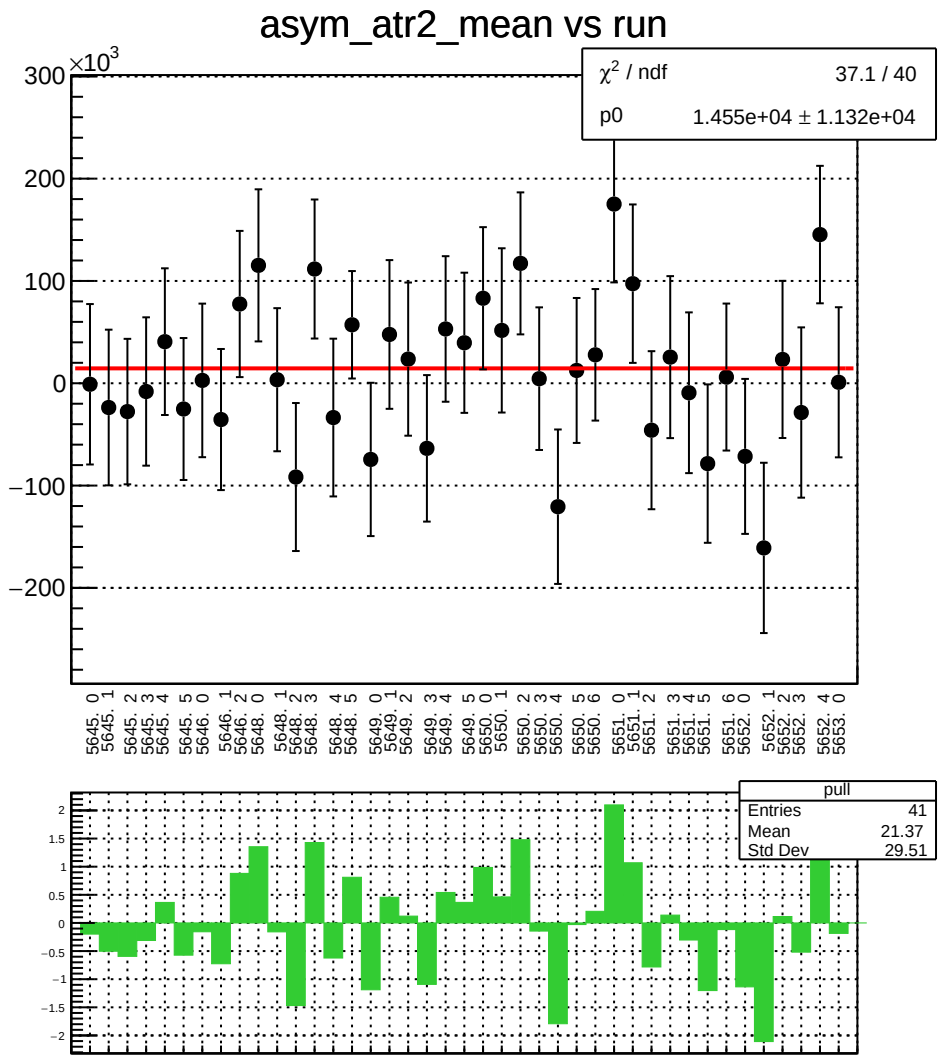

pull1D
Entries 41
Mean −0.01264
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

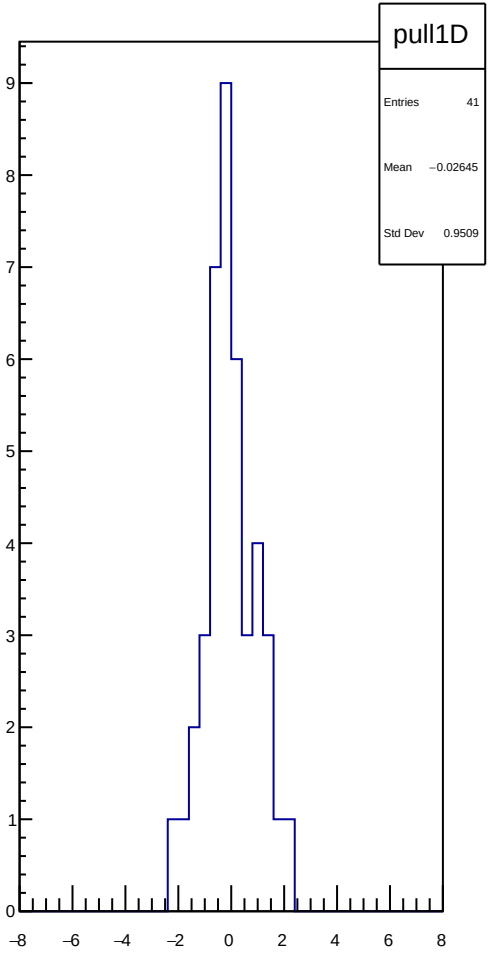

eigen_dit_asym_atr2_rms vs run
χ² / ndf 101.1 / 40
p0 1888 ± 2.124
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

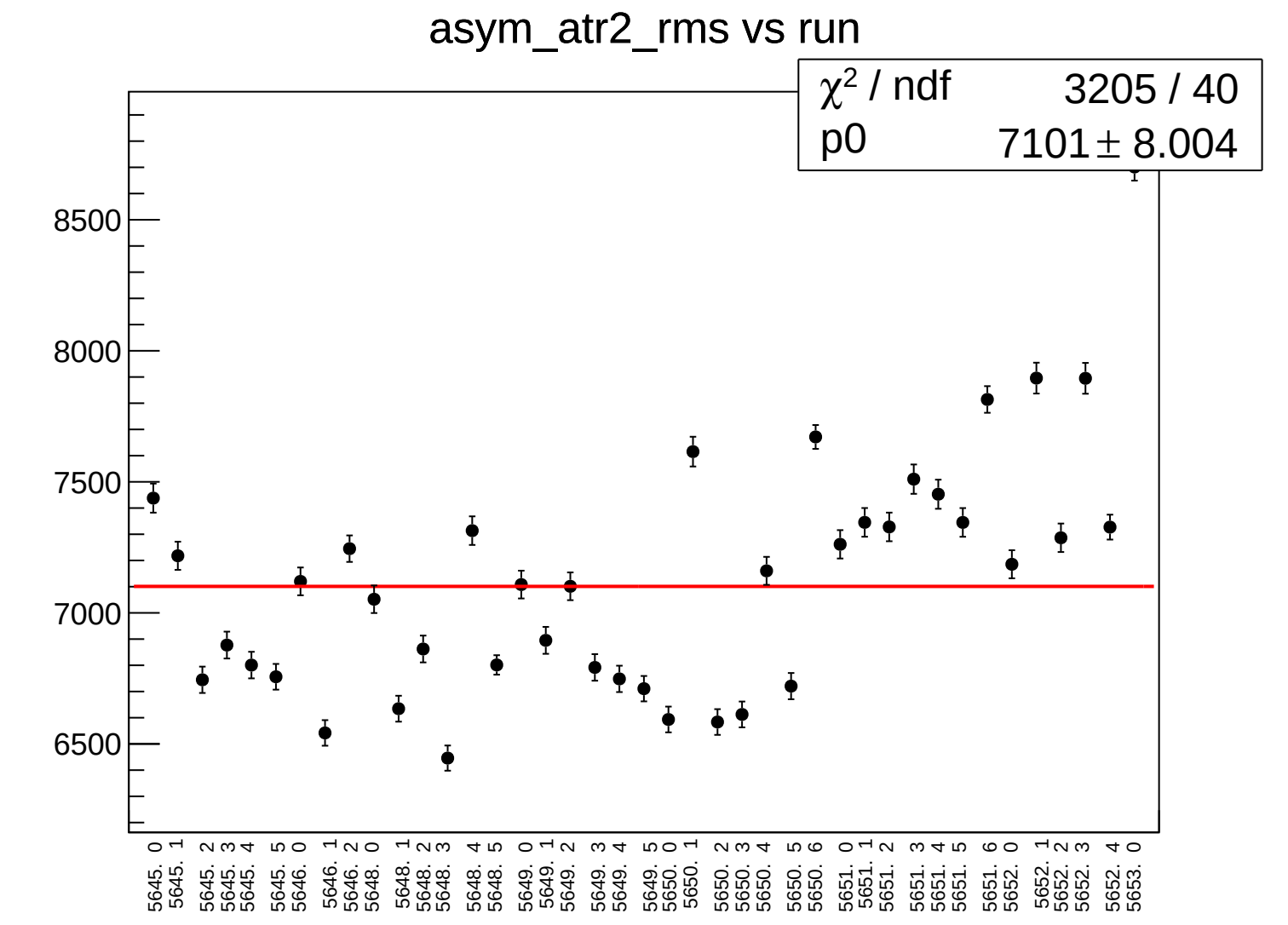

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 37.84 / 40
p0 −1.056e+04 ± 1.076e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.7
Std Dev 31.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

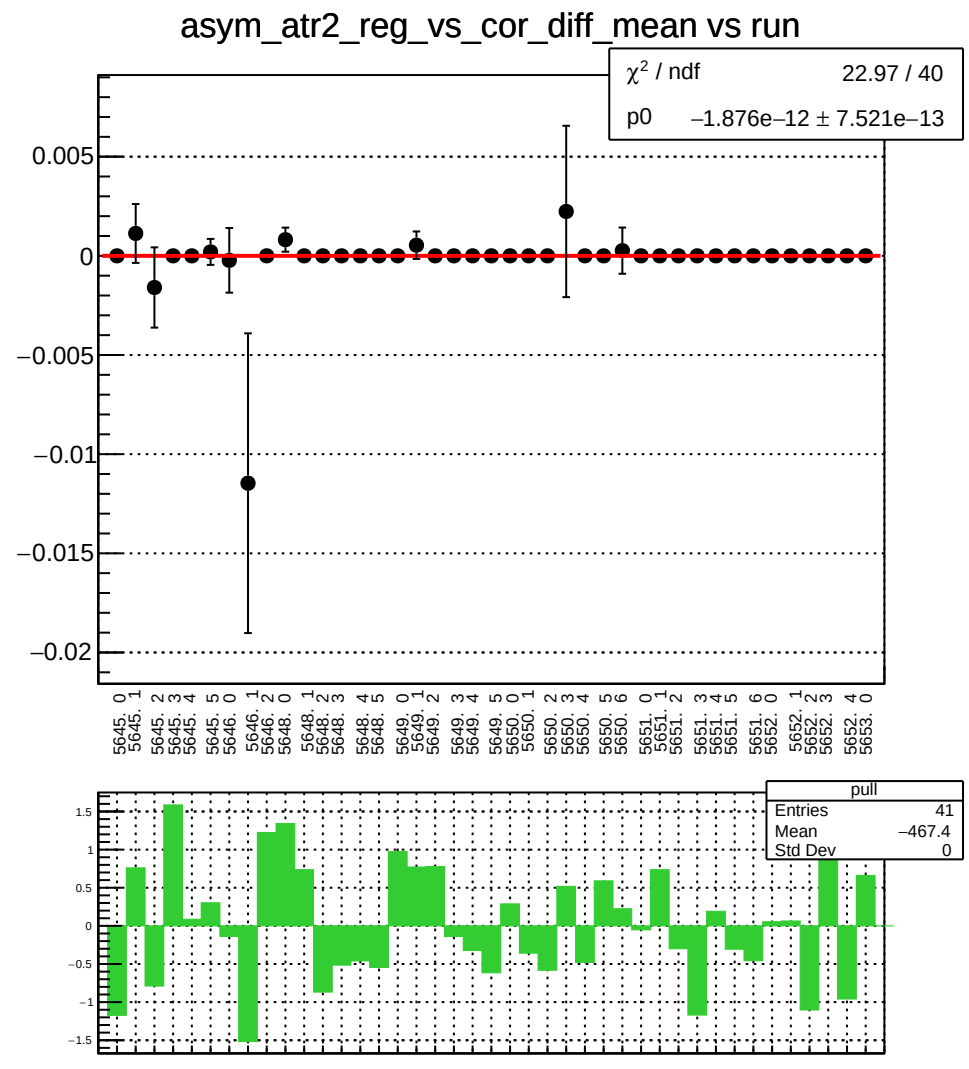

pull1D
Entries 41
Mean 0.02932
Std Dev 0.9603
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

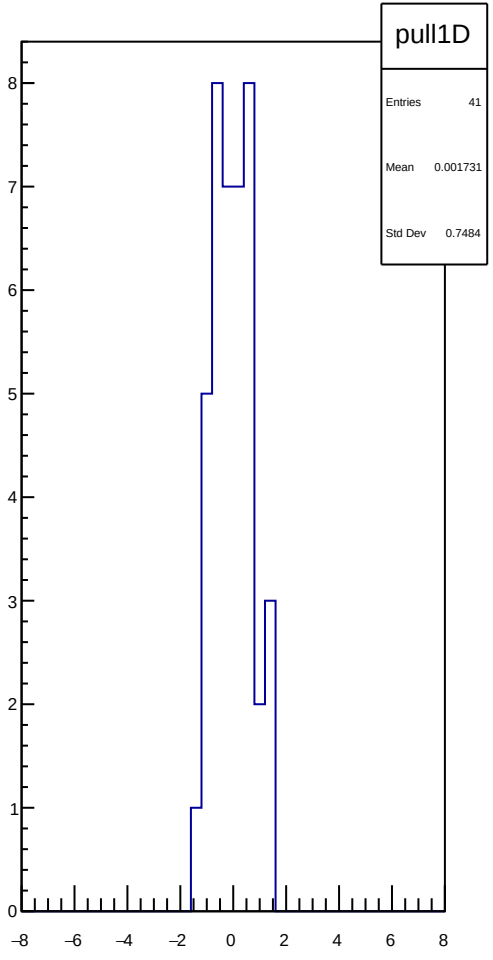

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 4533 / 40
p0 6742 ± 7.605
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

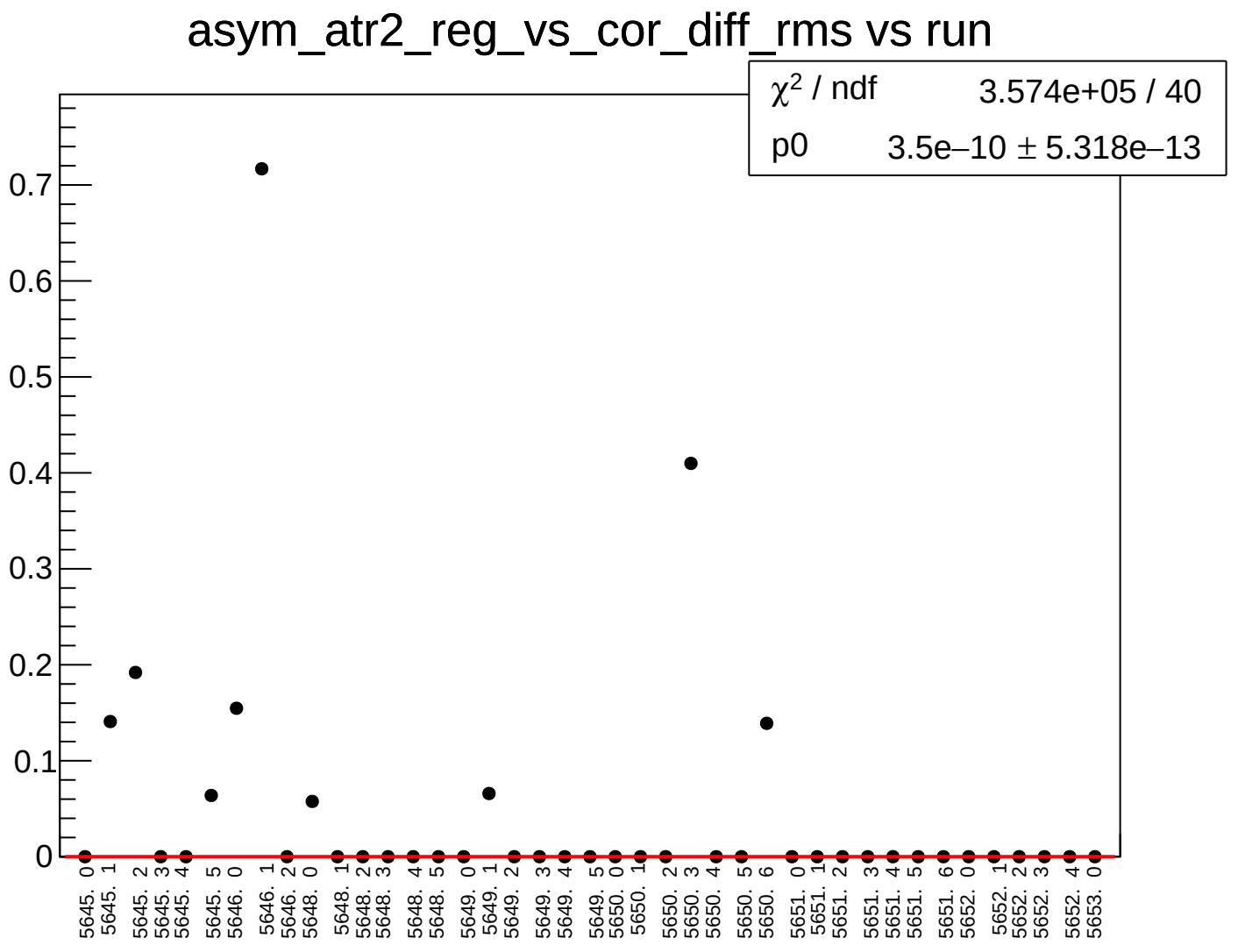

asym_atr2_mean vs run
×10^3
χ² / ndf 37.1 / 40
p0 1.455e+04 ± 1.132e+04
pull
Entries 41
Mean 21.37
Std Dev 29.51

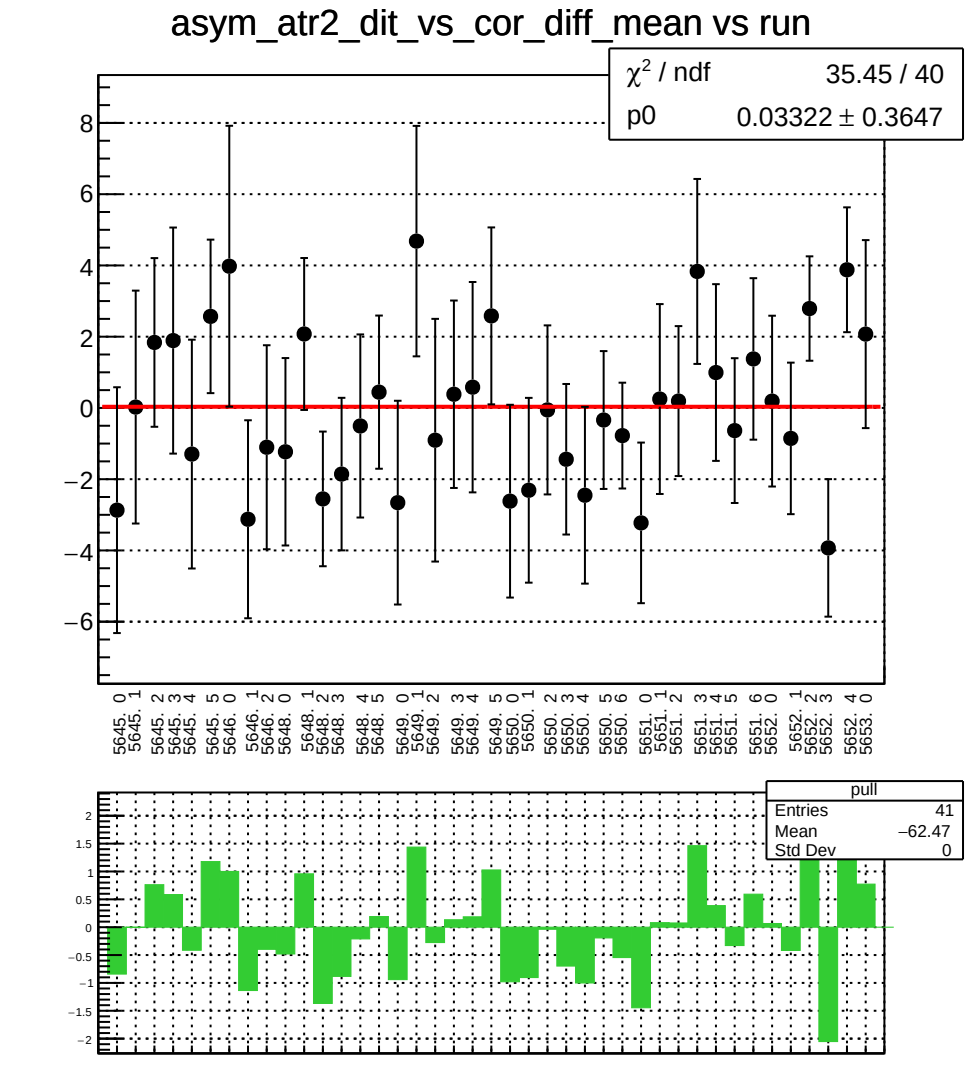

pull1D
Entries 41
Mean −0.02645
Std Dev 0.9509

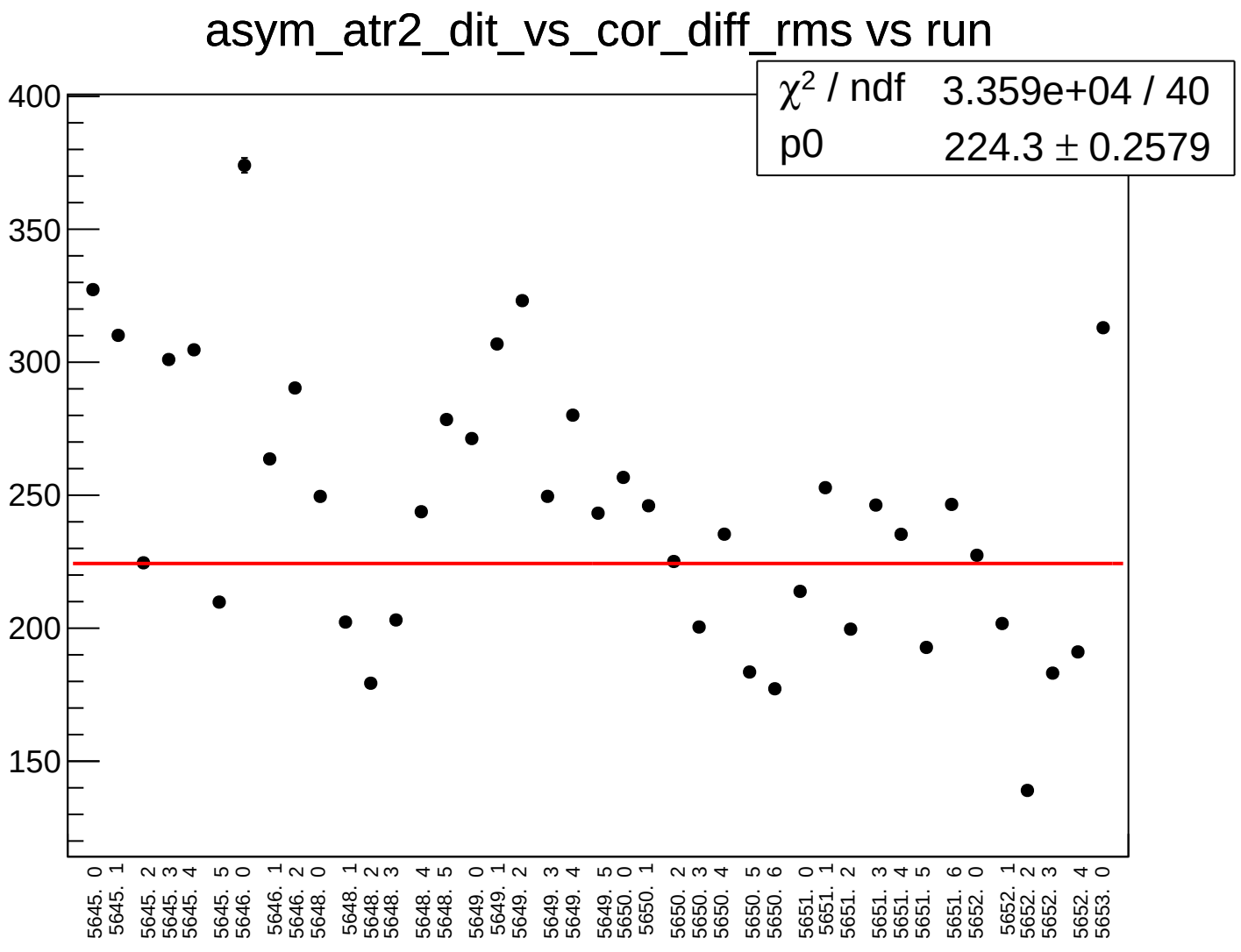

asym_atr2_rms vs run
χ² / ndf 3205 / 40
p0 7101 ± 8.004
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

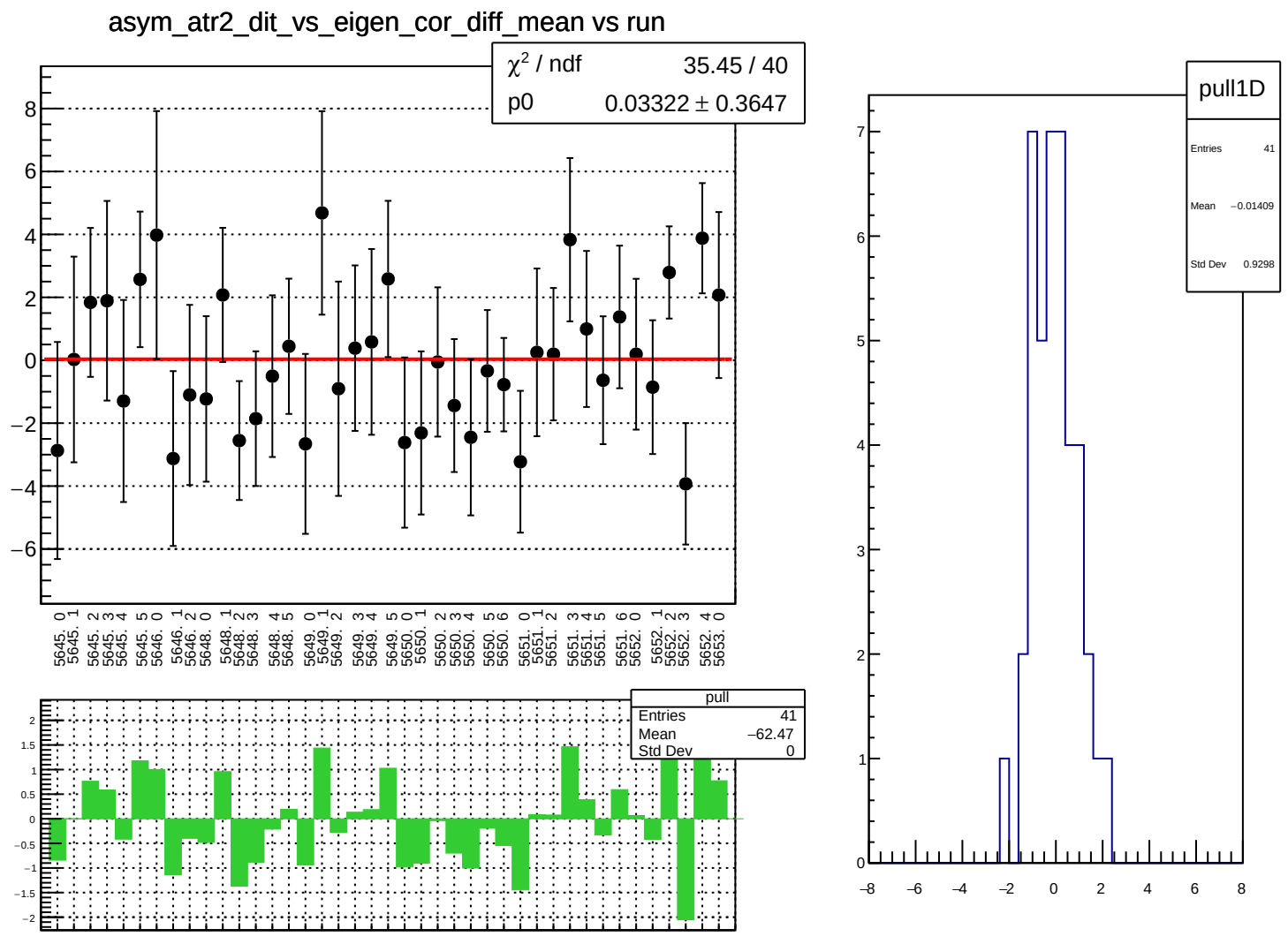

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 22.97 / 40
p0 −1.876e−12 ± 7.521e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −467.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

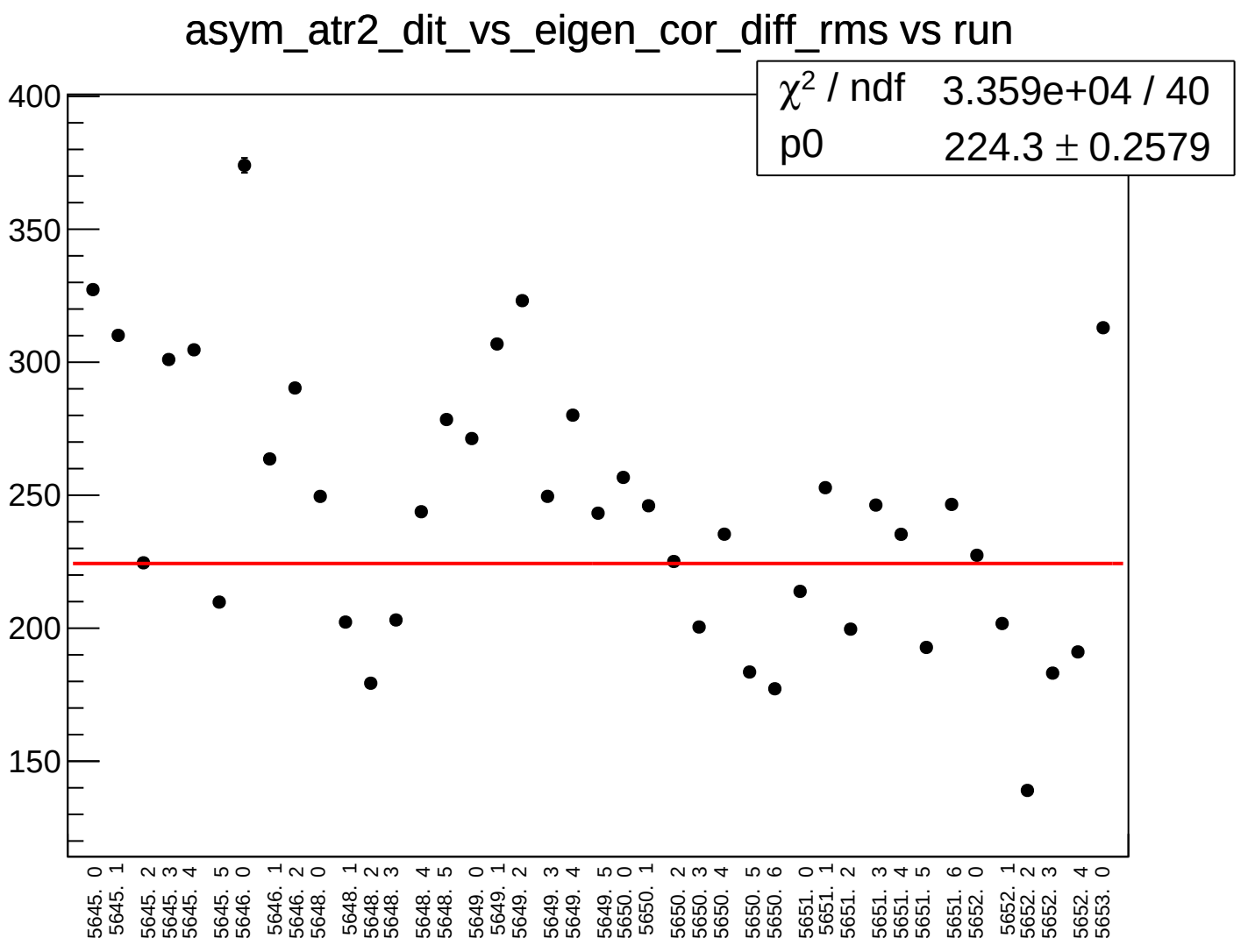

pull1D
Entries 41
Mean 0.001731
Std Dev 0.7484
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

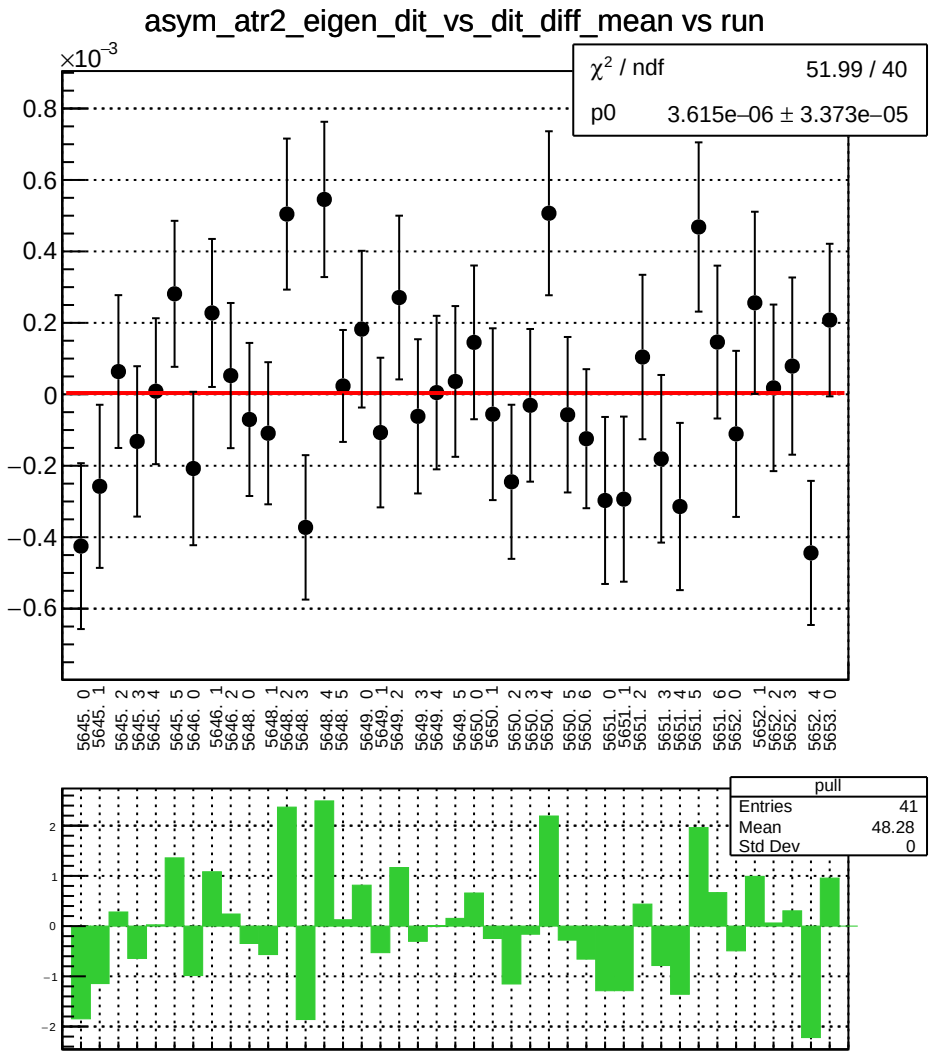

asym_atr2_reg_vs_cor_diff_rms vs run
χ2 / ndf 3.574e+05 / 40
p0 3.5e−10 ± 5.318e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

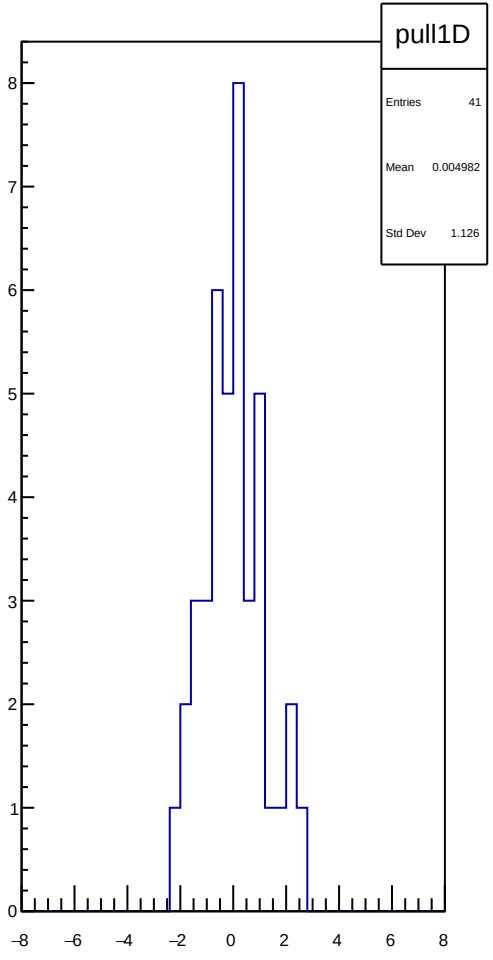

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 40
p0 0.03322 ± 0.3647
pull
Entries 41
Mean −62.47
Std Dev 0
pull1D
Entries 41
Mean −0.01409
Std Dev 0.9298

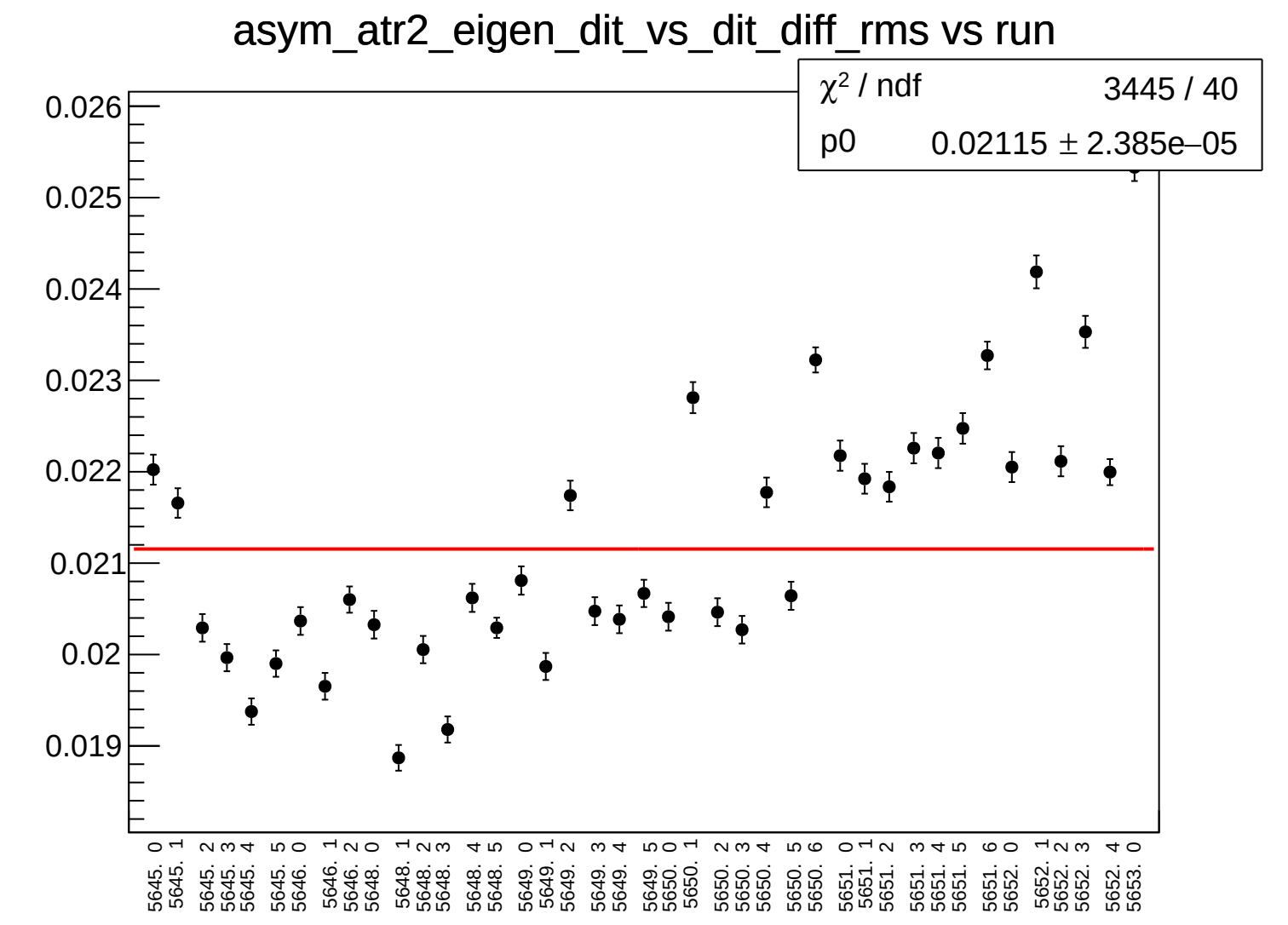

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.359e+04 / 40
p0 224.3 ± 0.2579
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

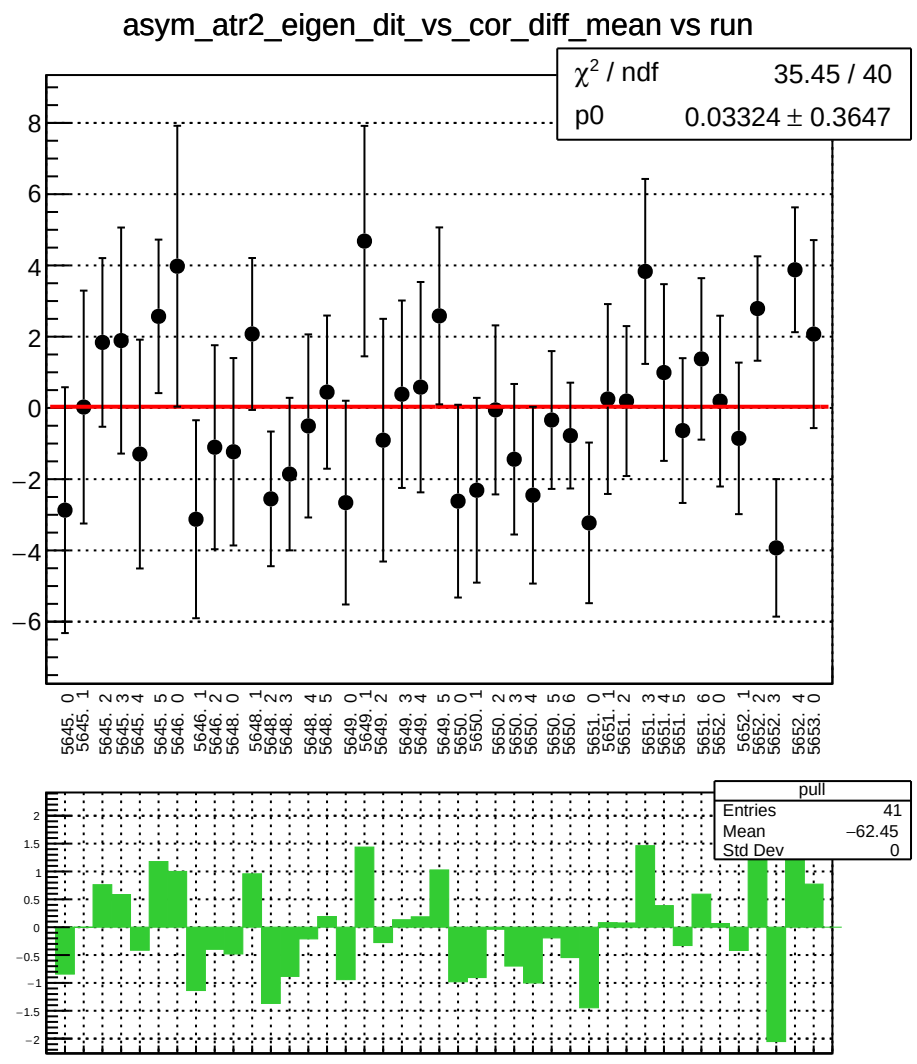

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 40
p0 0.03322 ± 0.3647
pull
Entries 41
Mean −62.47
Std Dev 0
pull1D
Entries 41
Mean −0.01409
Std Dev 0.9298

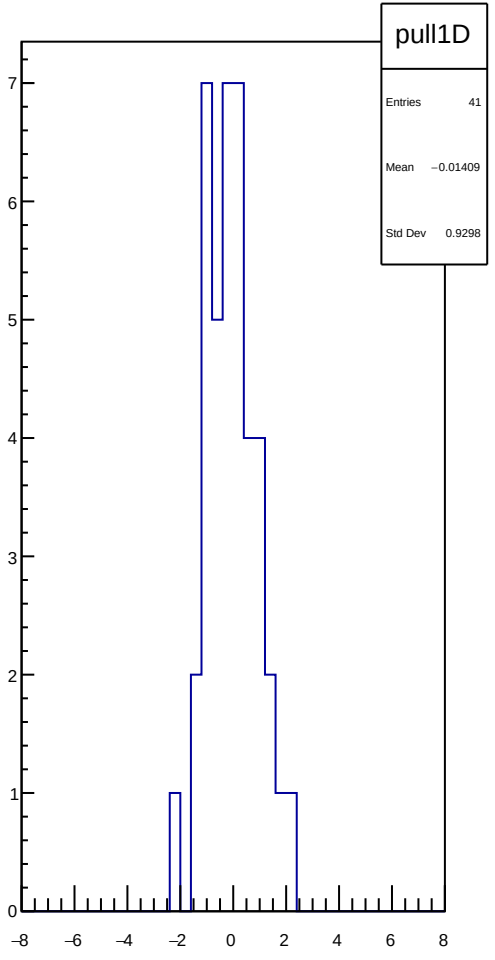

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.359e+04 / 40
p0 224.3 ± 0.2579
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

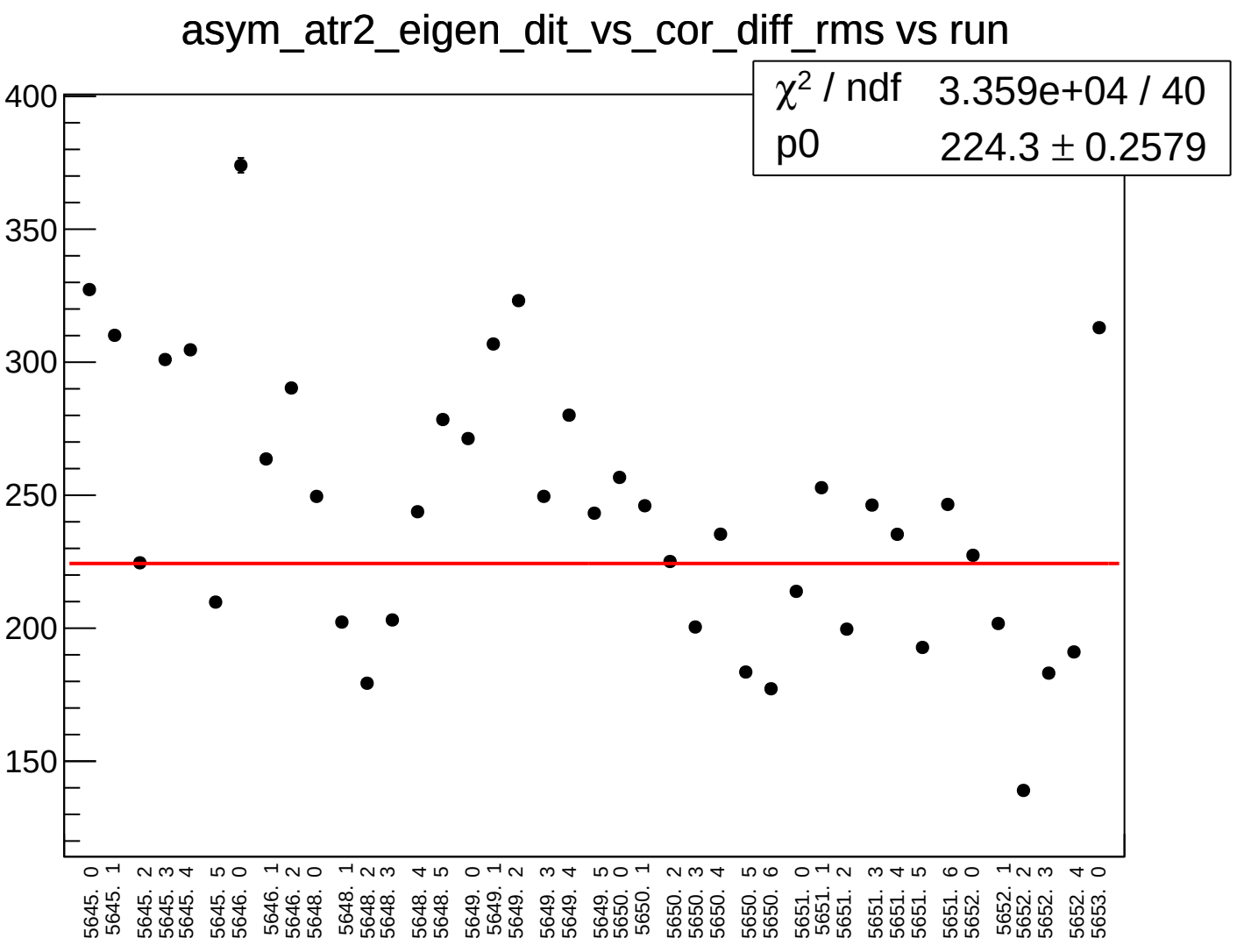

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.99 / 40
p0 3.615e−06 ± 3.373e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 48.28
Std Dev 0
2
1
0
−1
−2

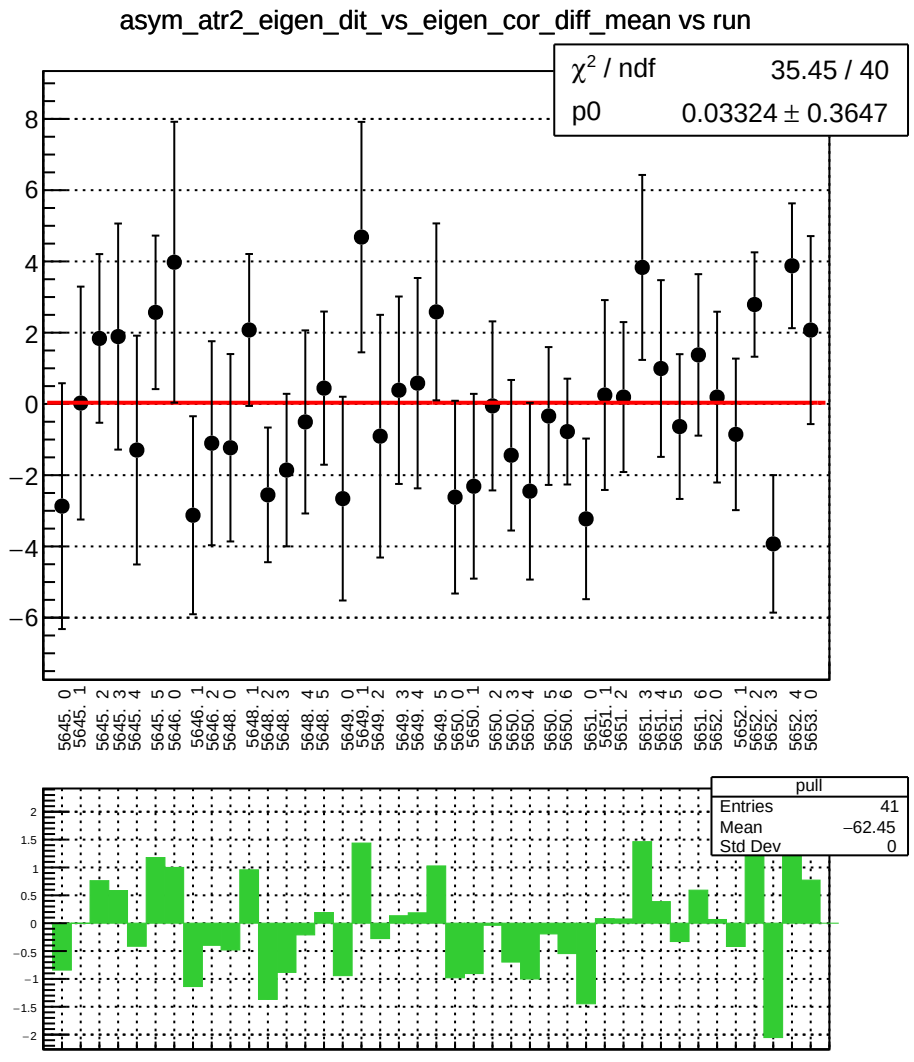

pull1D
Entries 41
Mean 0.004982
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

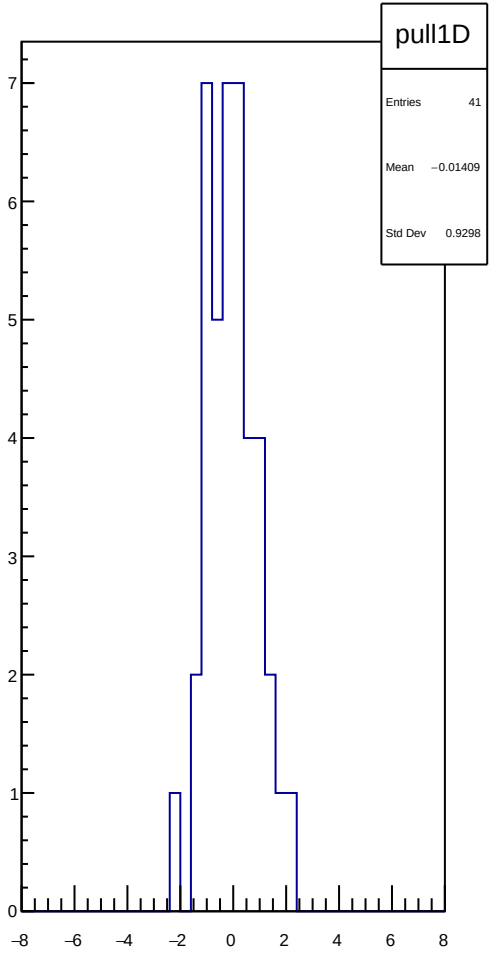

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3445 / 40
p0 0.02115 ± 2.385e–05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

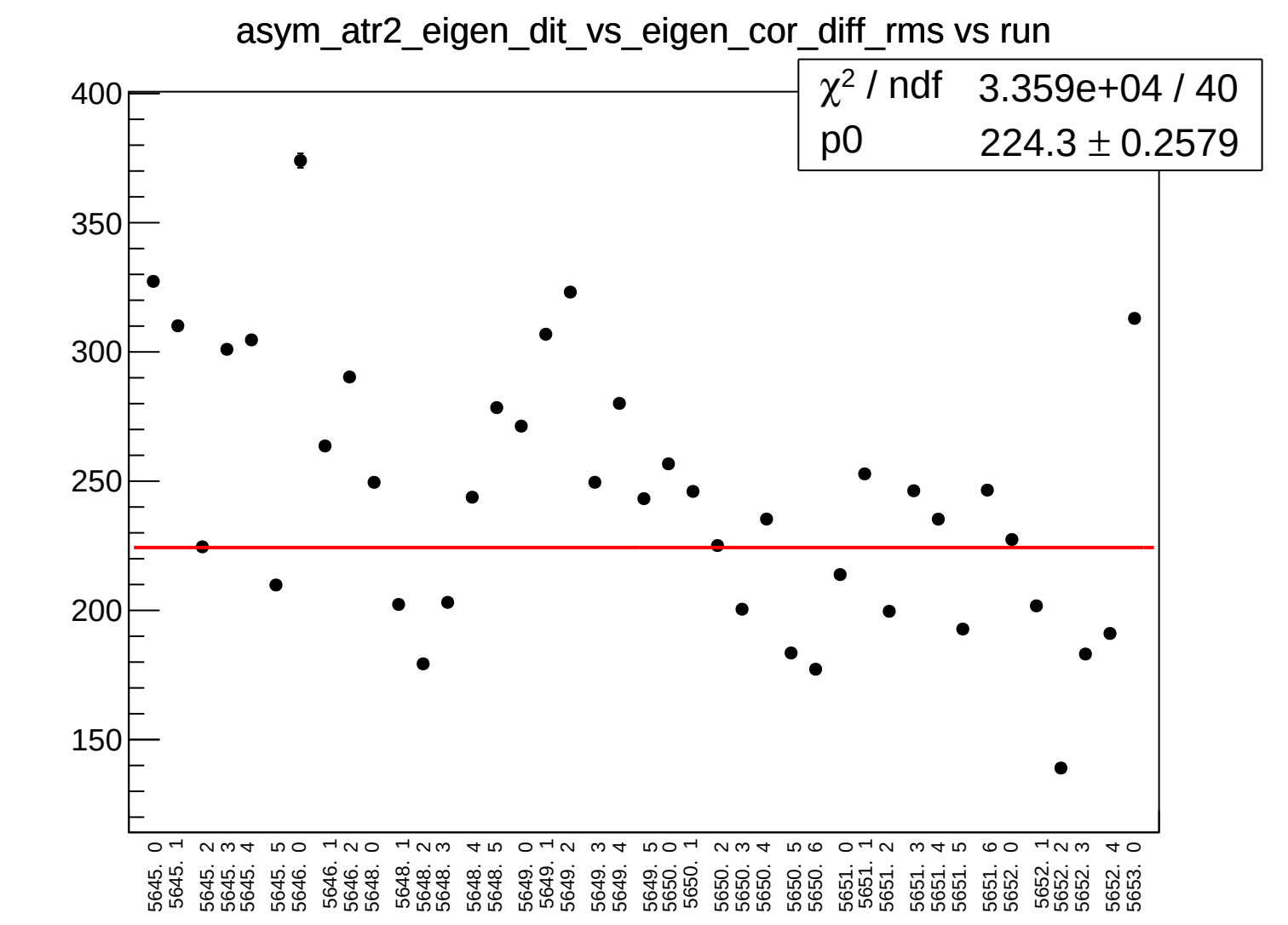

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.45 / 40
p0 0.03324 ± 0.3647
pull
Entries 41
Mean −62.45
Std Dev 0

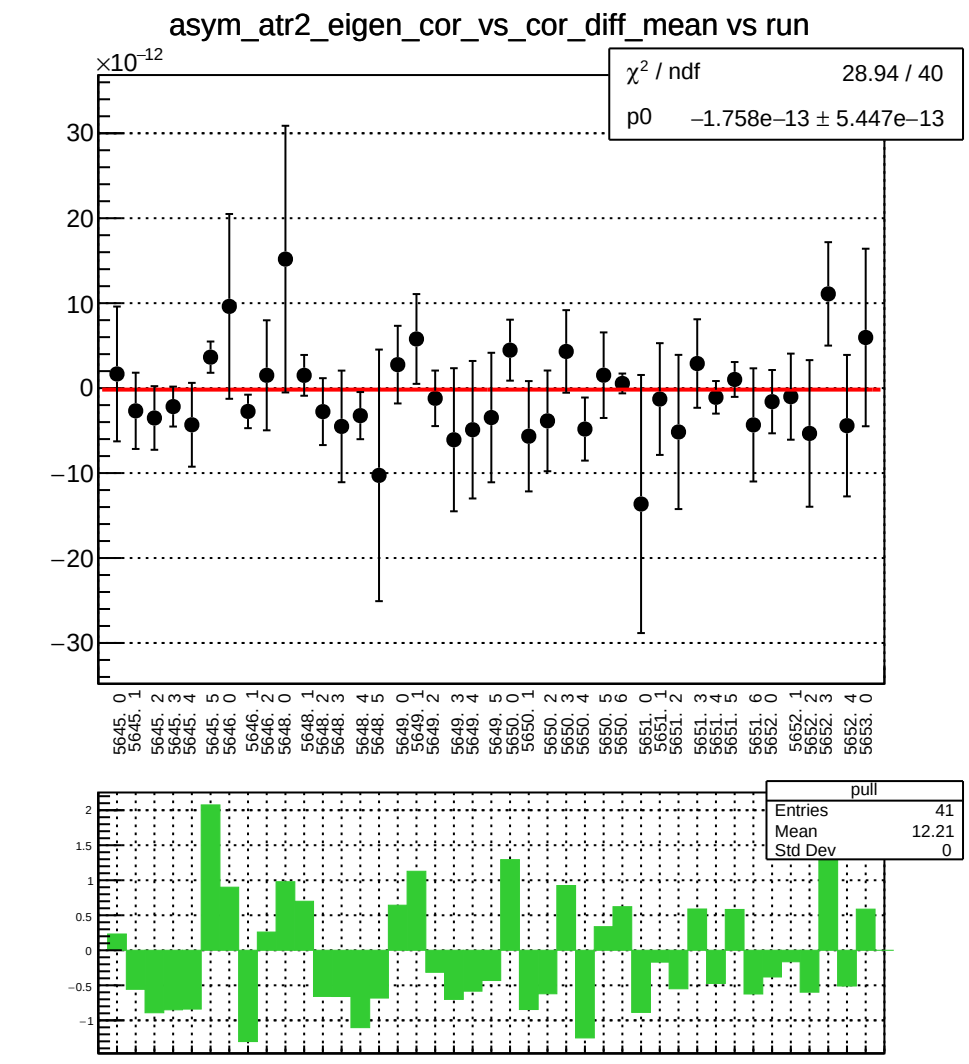

pull1D
Entries 41
Mean −0.01409
Std Dev 0.9298

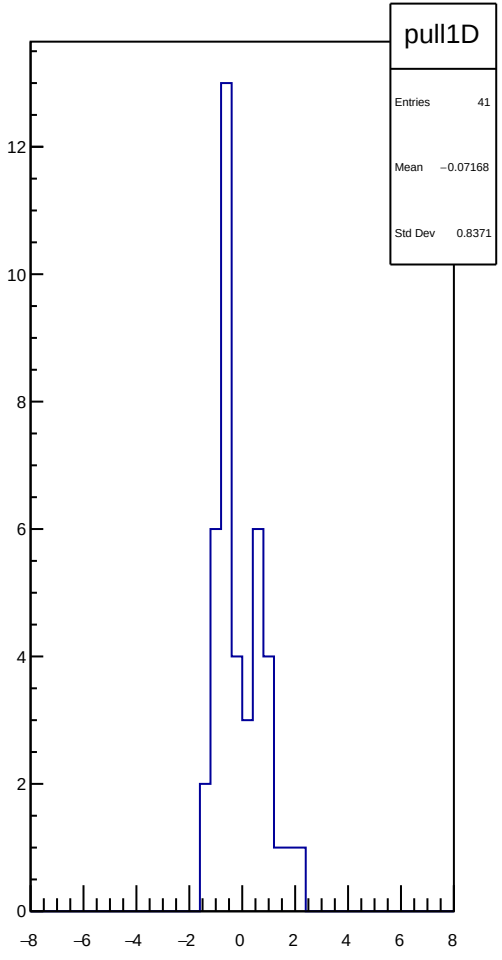

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.359e+04 / 40
p0 224.3 ± 0.2579
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

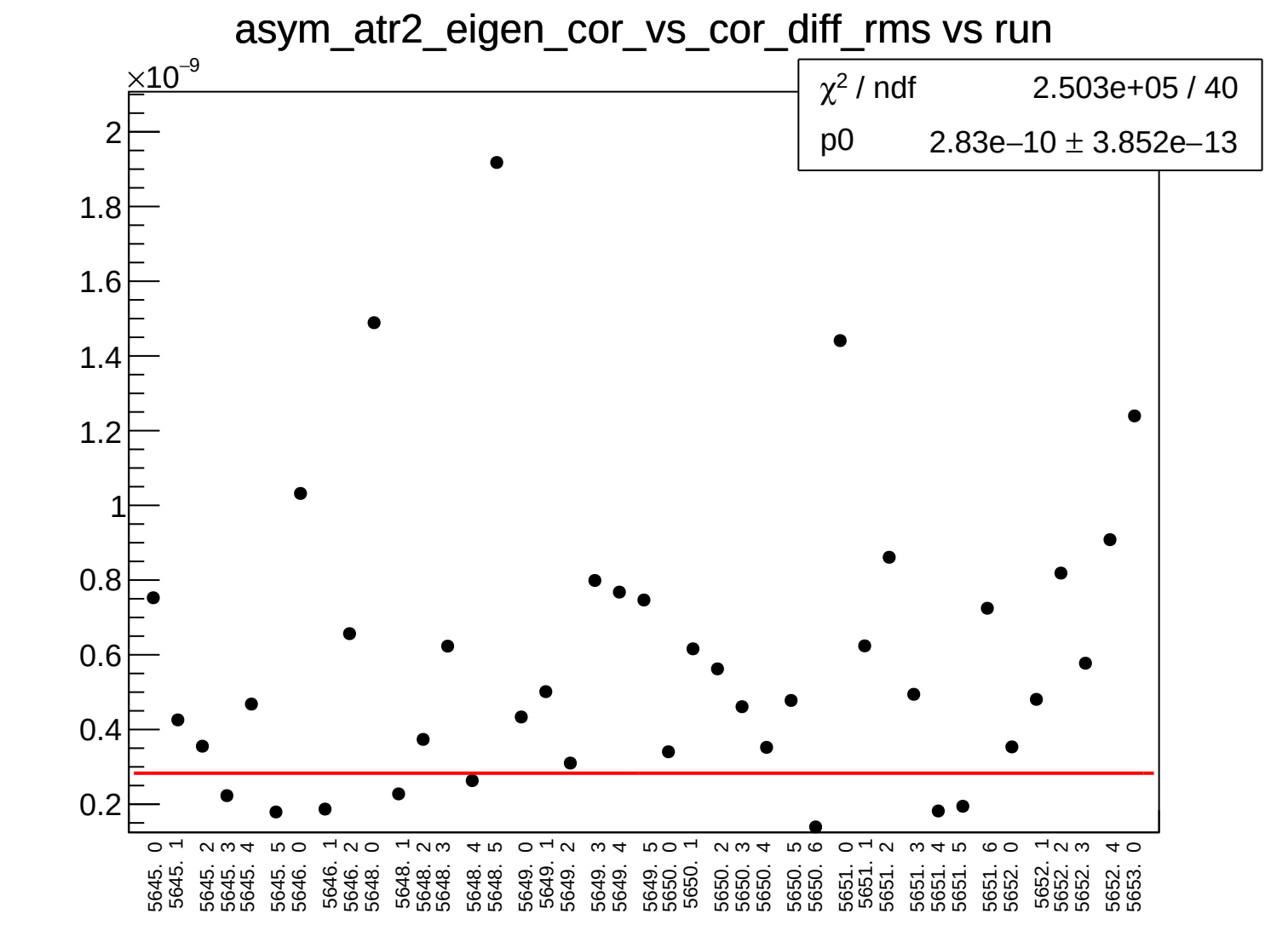

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.45 / 40
p0 0.03324 ± 0.3647
pull
Entries 41
Mean −62.45
Std Dev 0


pull1D
Entries 41
Mean −0.01409
Std Dev 0.9298


asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.359e+04 / 40
p0 224.3 ± 0.2579
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.94 / 40
p0 −1.758e−13 ± 5.447e−13
30
20
10
0
−10
−20
−30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.07168
Std Dev 0.8371
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.503e+05 / 40
p0 2.83e−10 ± 3.852e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
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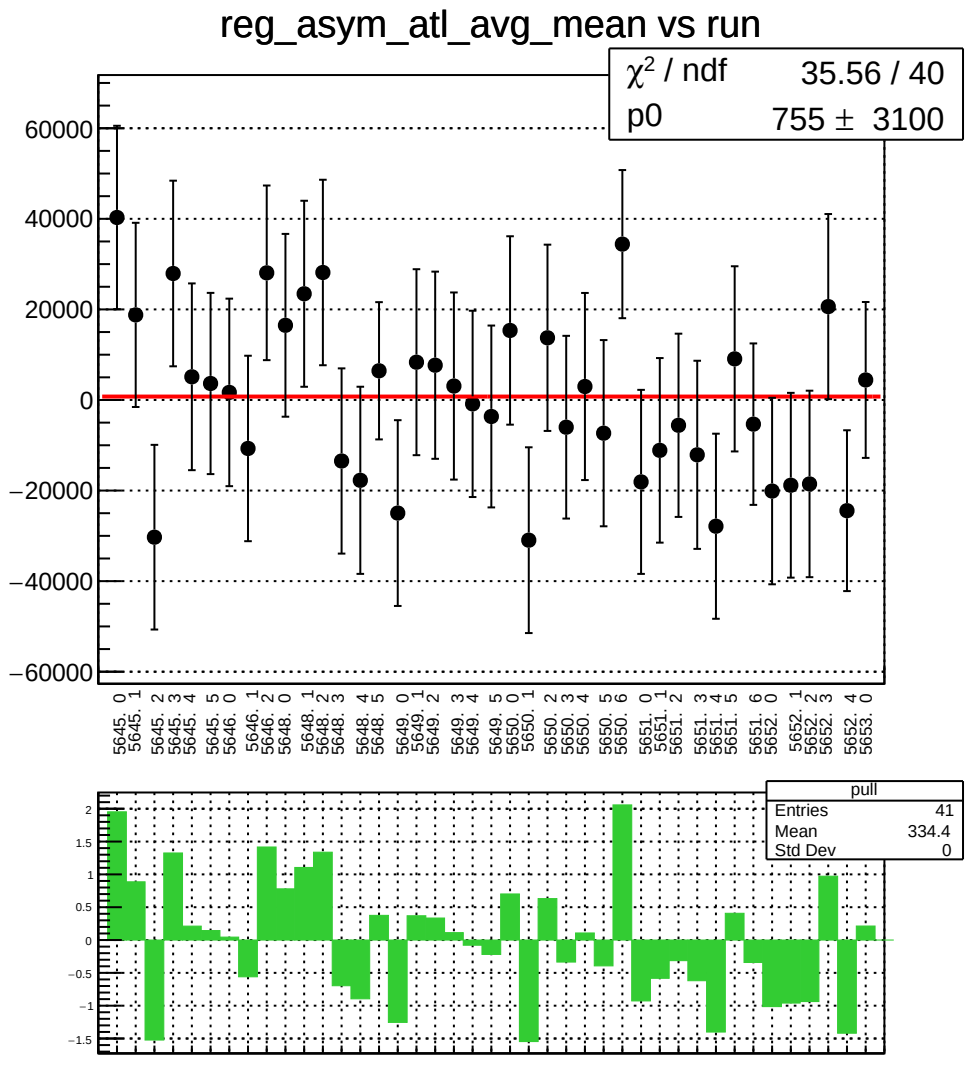
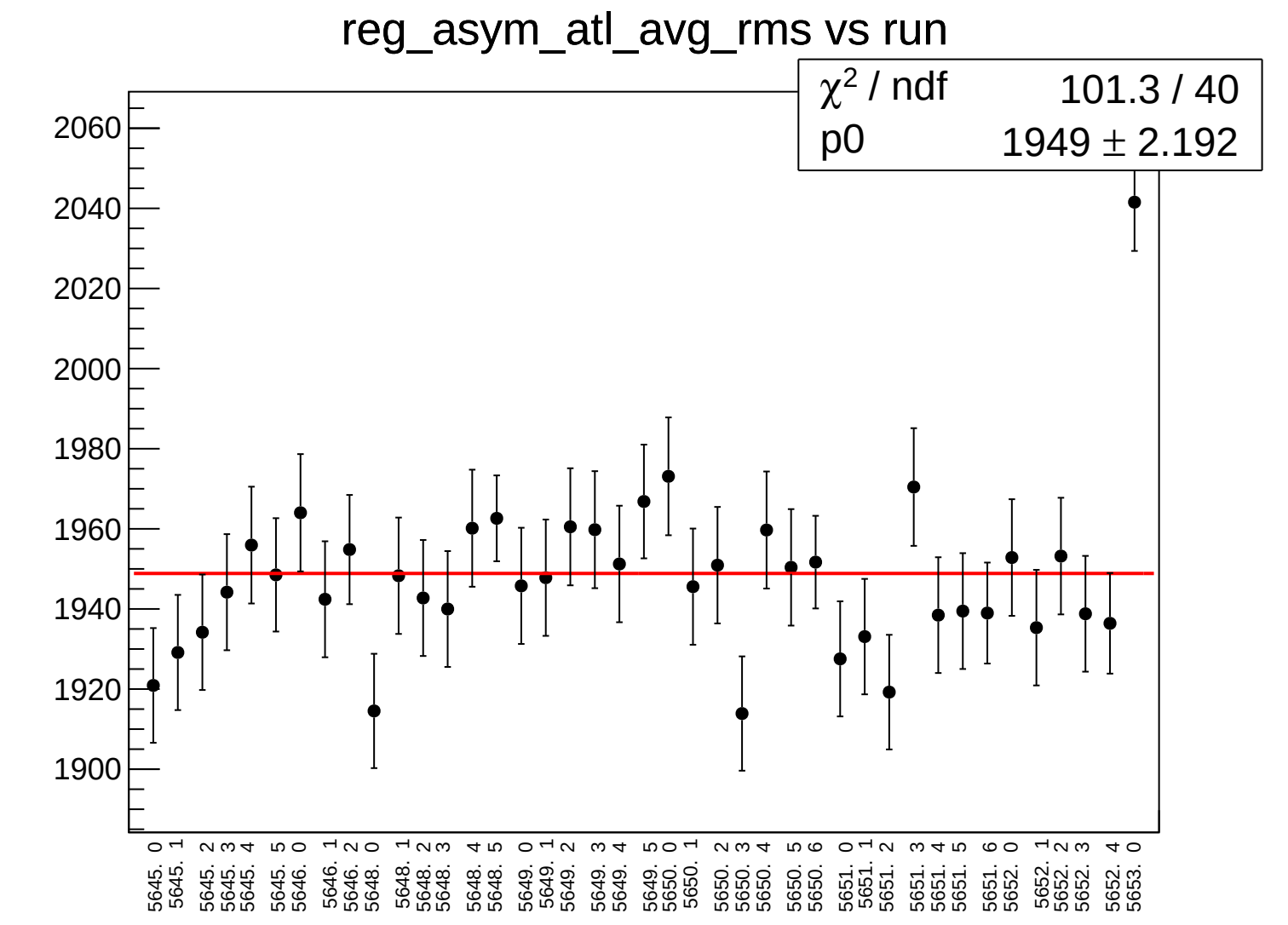
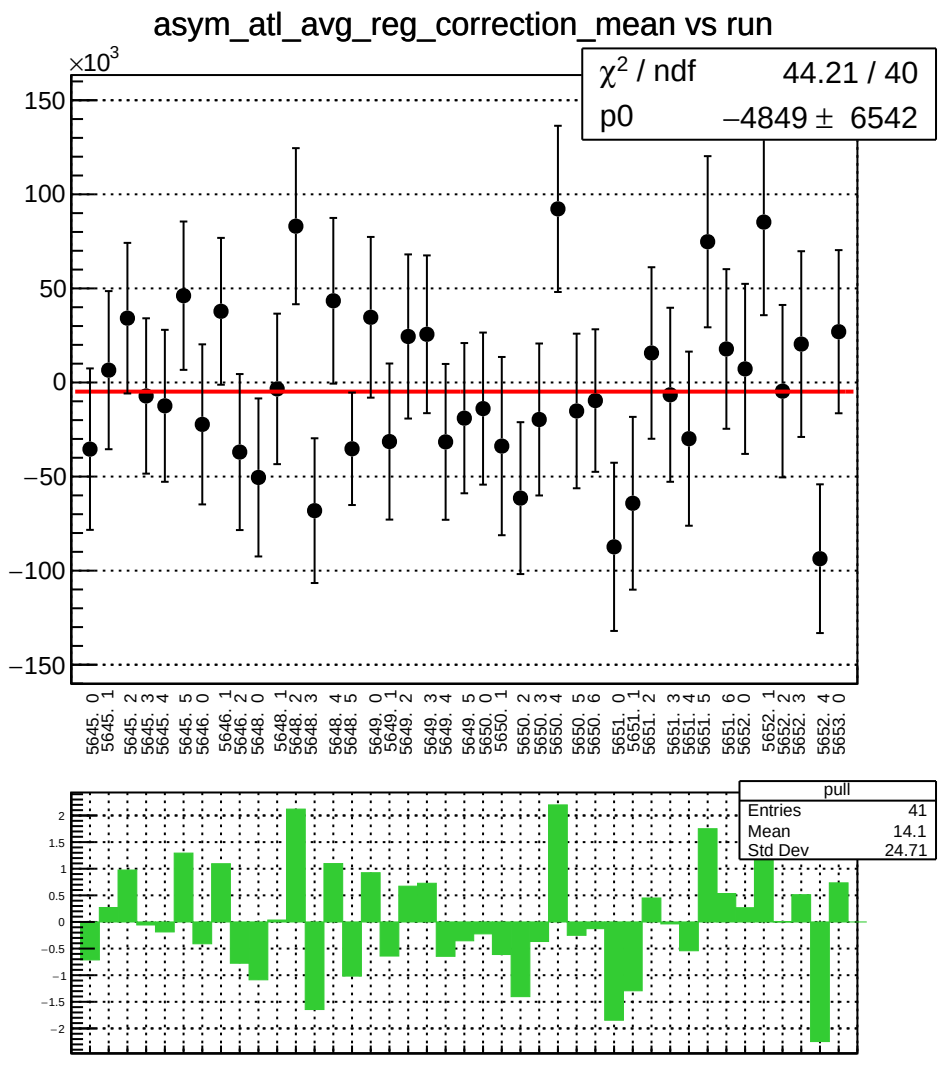
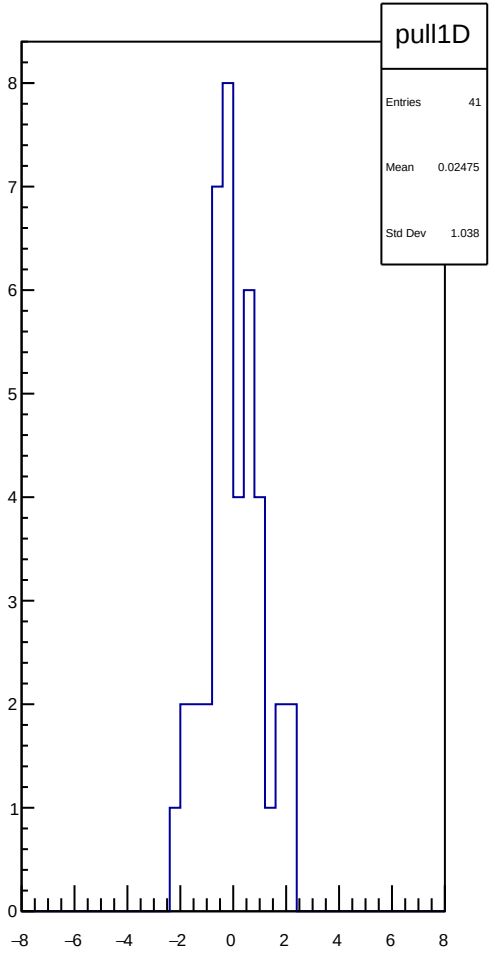
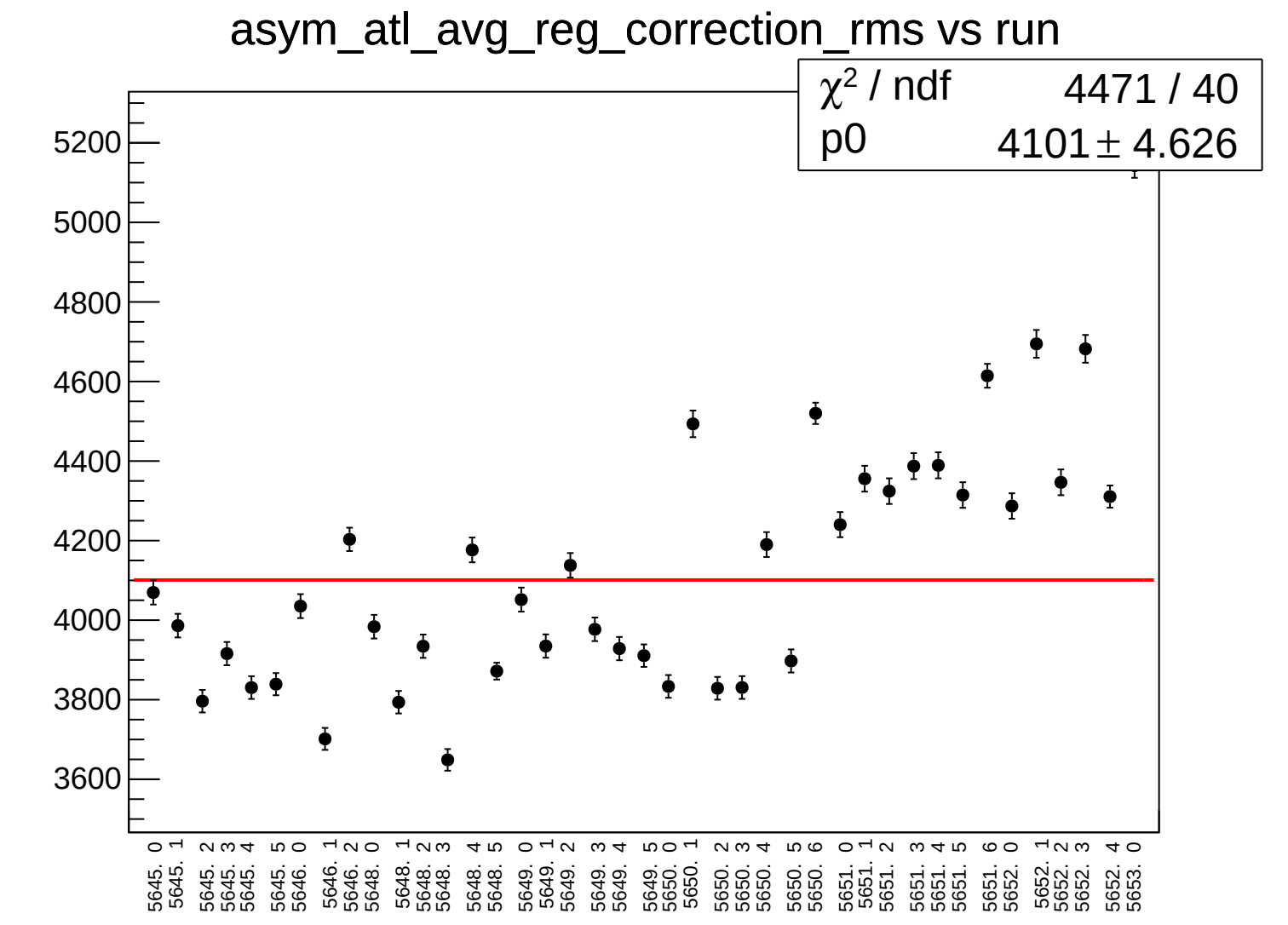
5652. 2
5652. 3
5652. 4
5653. 0

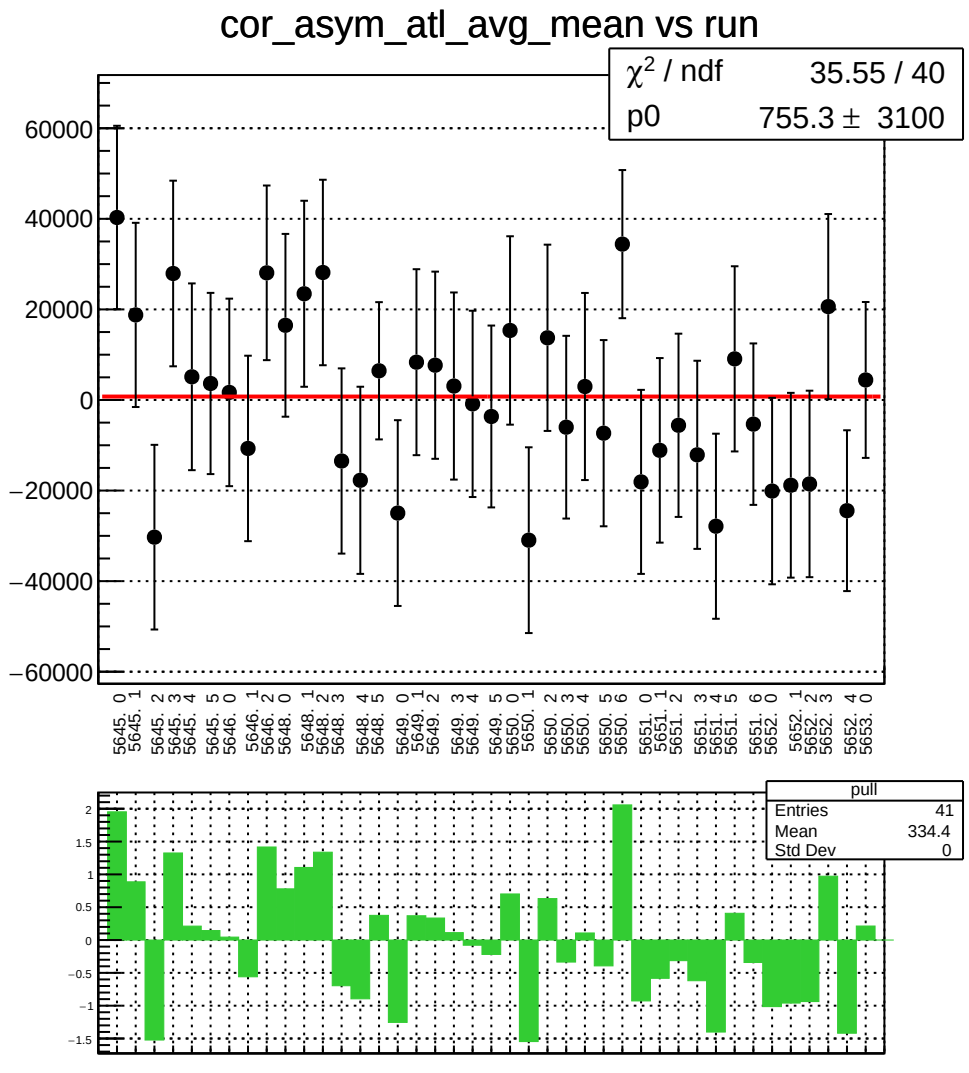

reg_asym_atl_avg_mean vs run
χ² / ndf 35.56 / 40
p0 755 ± 3100
pull
Entries 41
Mean 334.4
Std Dev 0
pull1D
Entries 41
Mean −0.01284
Std Dev 0.9311

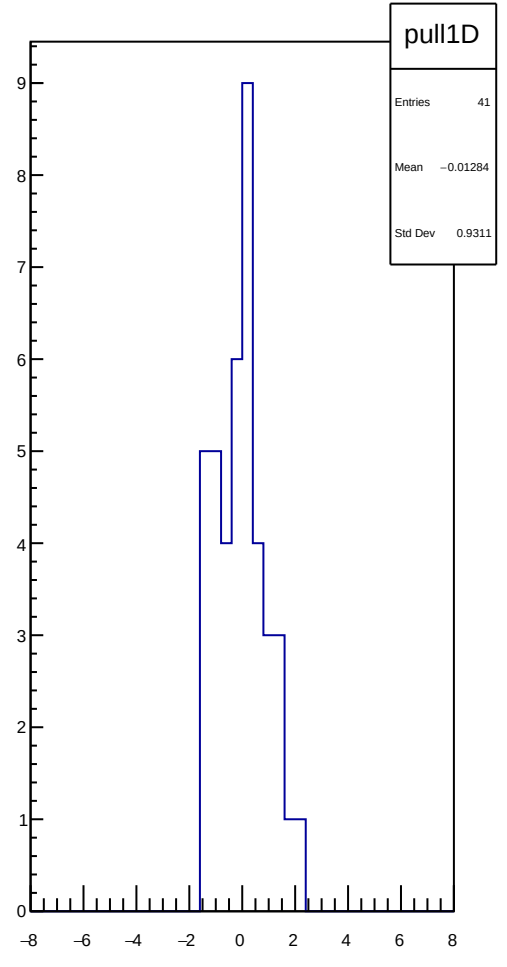

reg_asym_atl_avg_rms vs run
χ² / ndf 101.3 / 40
p0 1949 ± 2.192
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

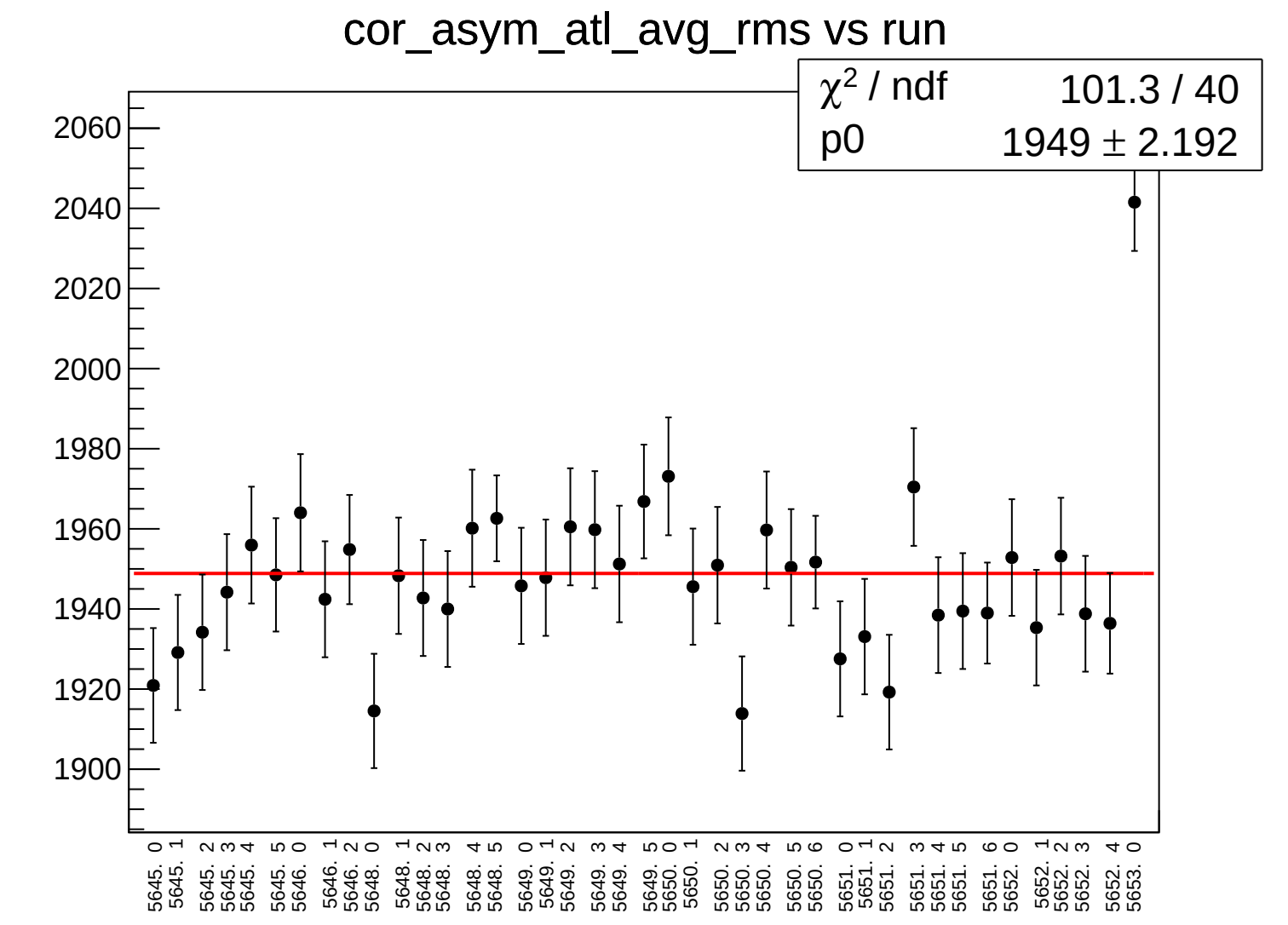

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 44.21 / 40
p0 −4849 ± 6542
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.1
Std Dev 24.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

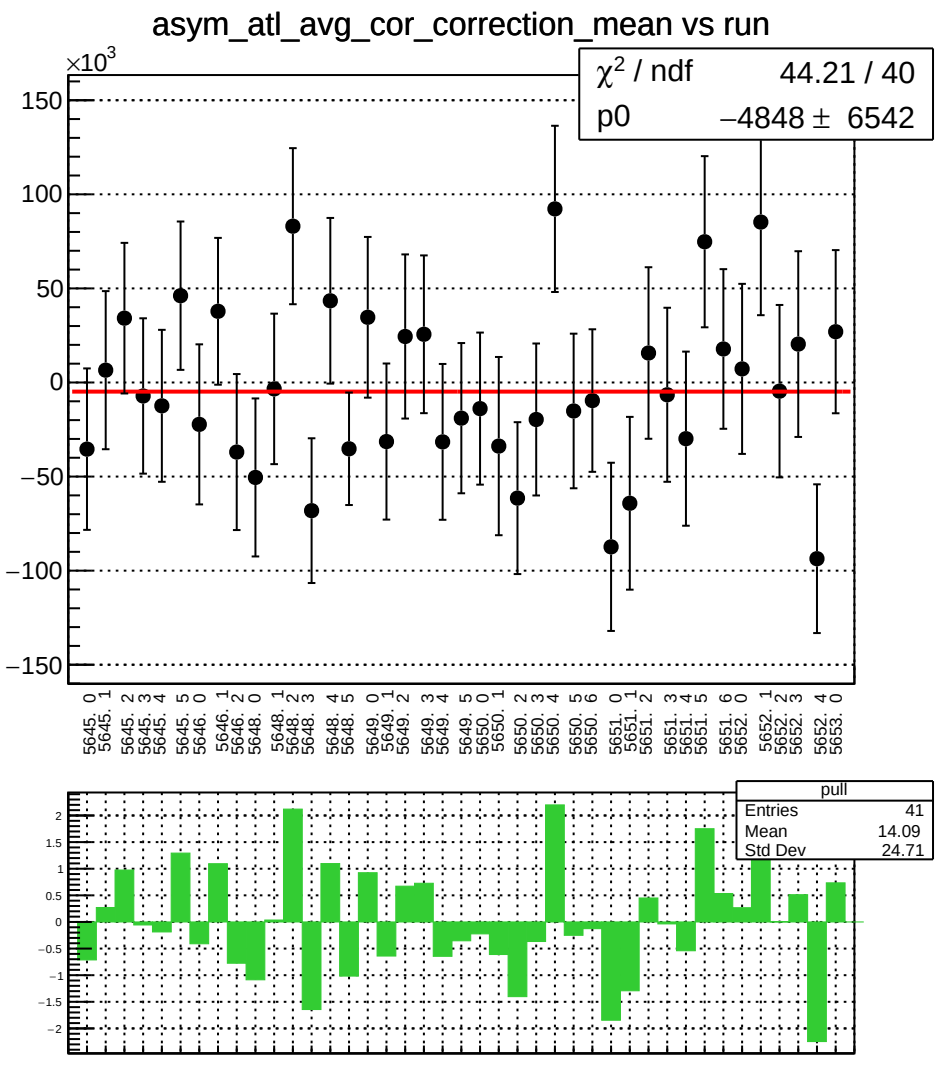

pull1D
Entries 41
Mean 0.02475
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

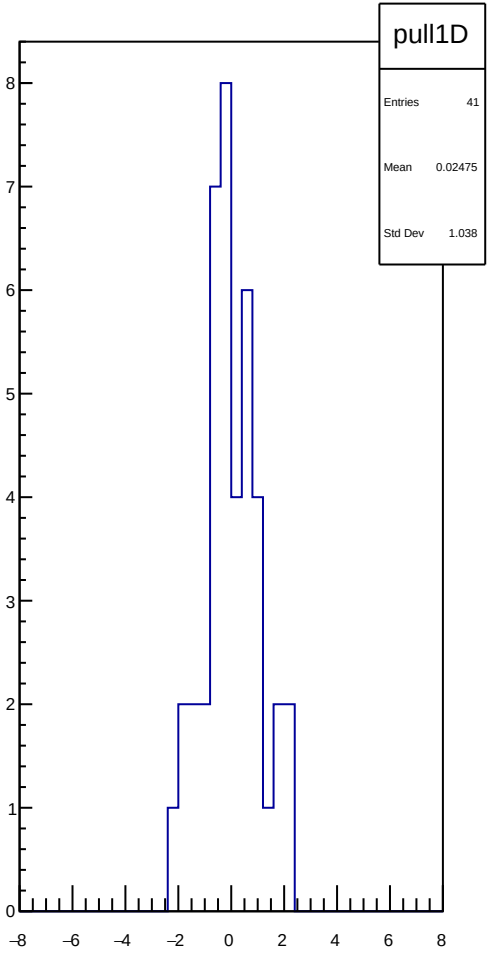

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4471 / 40
p0 4101 ± 4.626
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

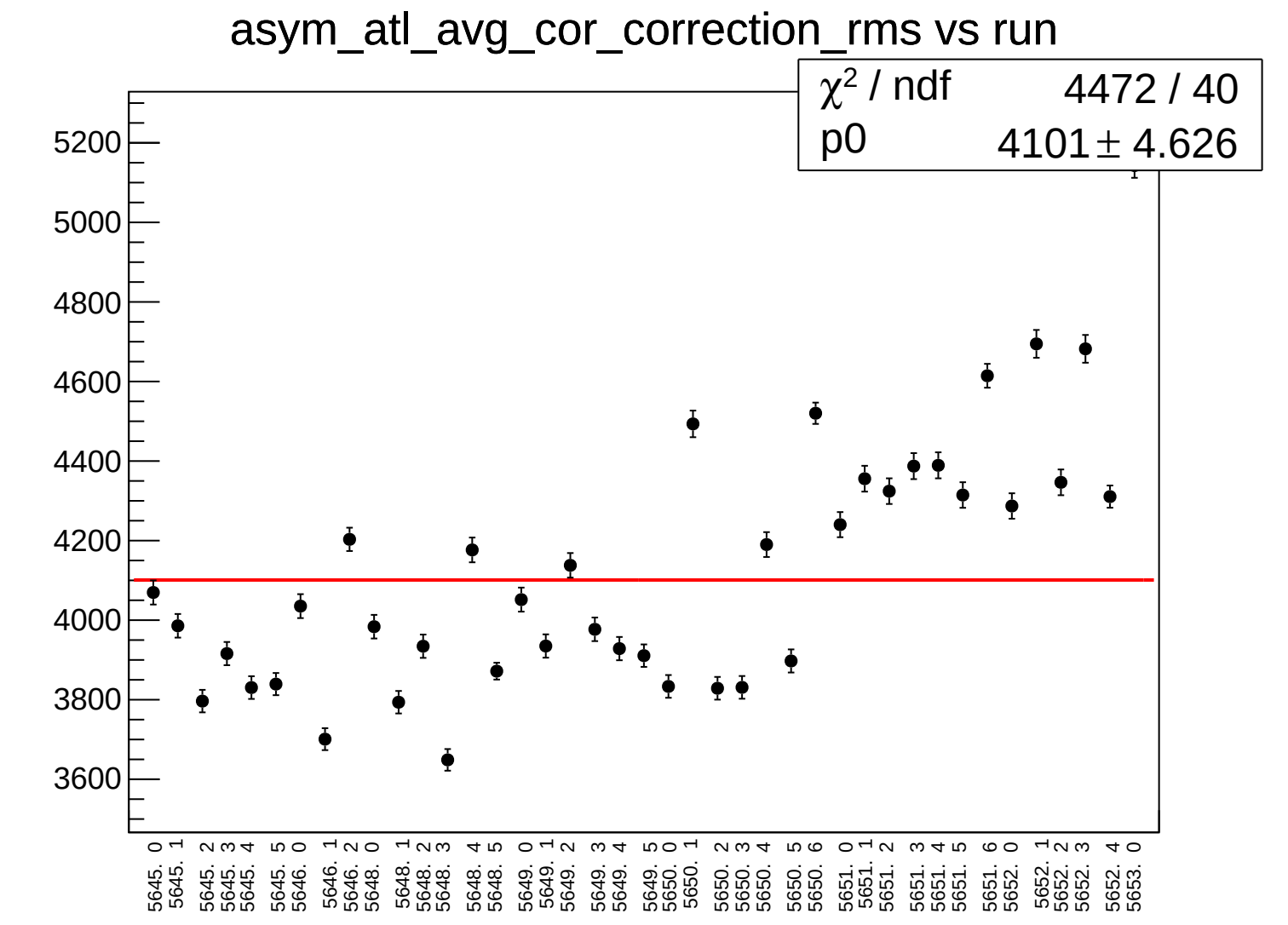

cor_asym_atl_avg_mean vs run
χ² / ndf 35.55 / 40
p0 755.3 ± 3100
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 334.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

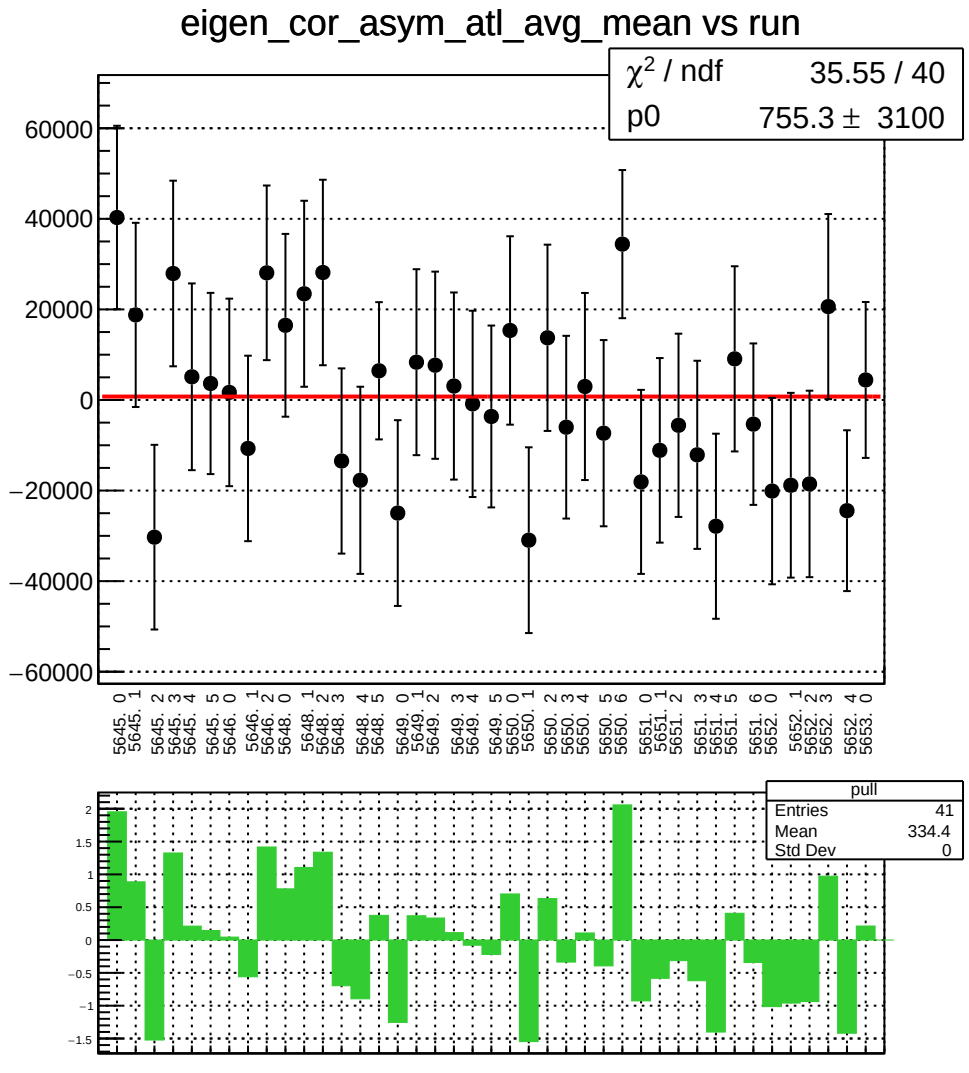

pull1D
Entries 41
Mean −0.01284
Std Dev 0.9311
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

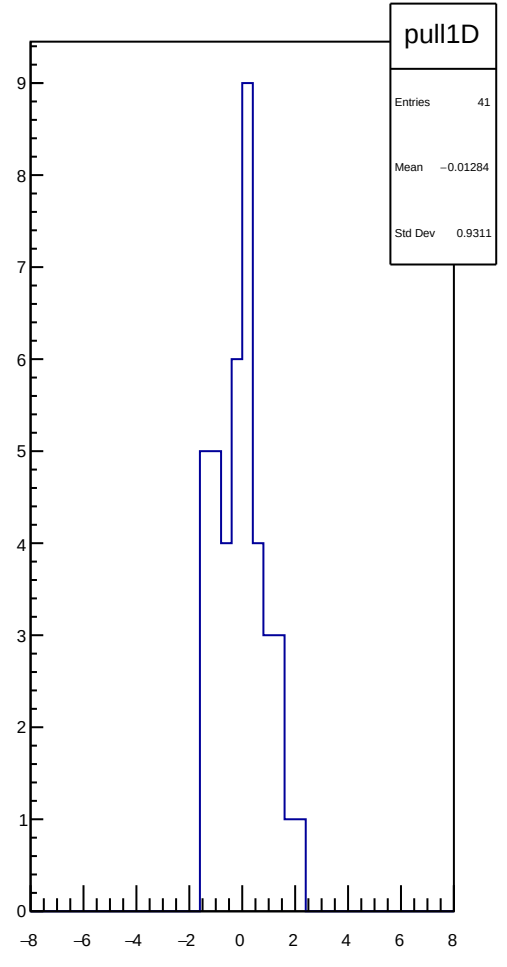

cor_asym_atl_avg_rms vs run
χ² / ndf 101.3 / 40
p0 1949 ± 2.192
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 44.21 / 40
p0 −4848 ± 6542
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.09
Std Dev 24.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02475
Std Dev 1.038
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 4472 / 40
p0 4101 ± 4.626
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 35.55 / 40
p0 755.3 ± 3100
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 334.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.01284
Std Dev 0.9311
9
8
7
6
5
4
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2
1
0
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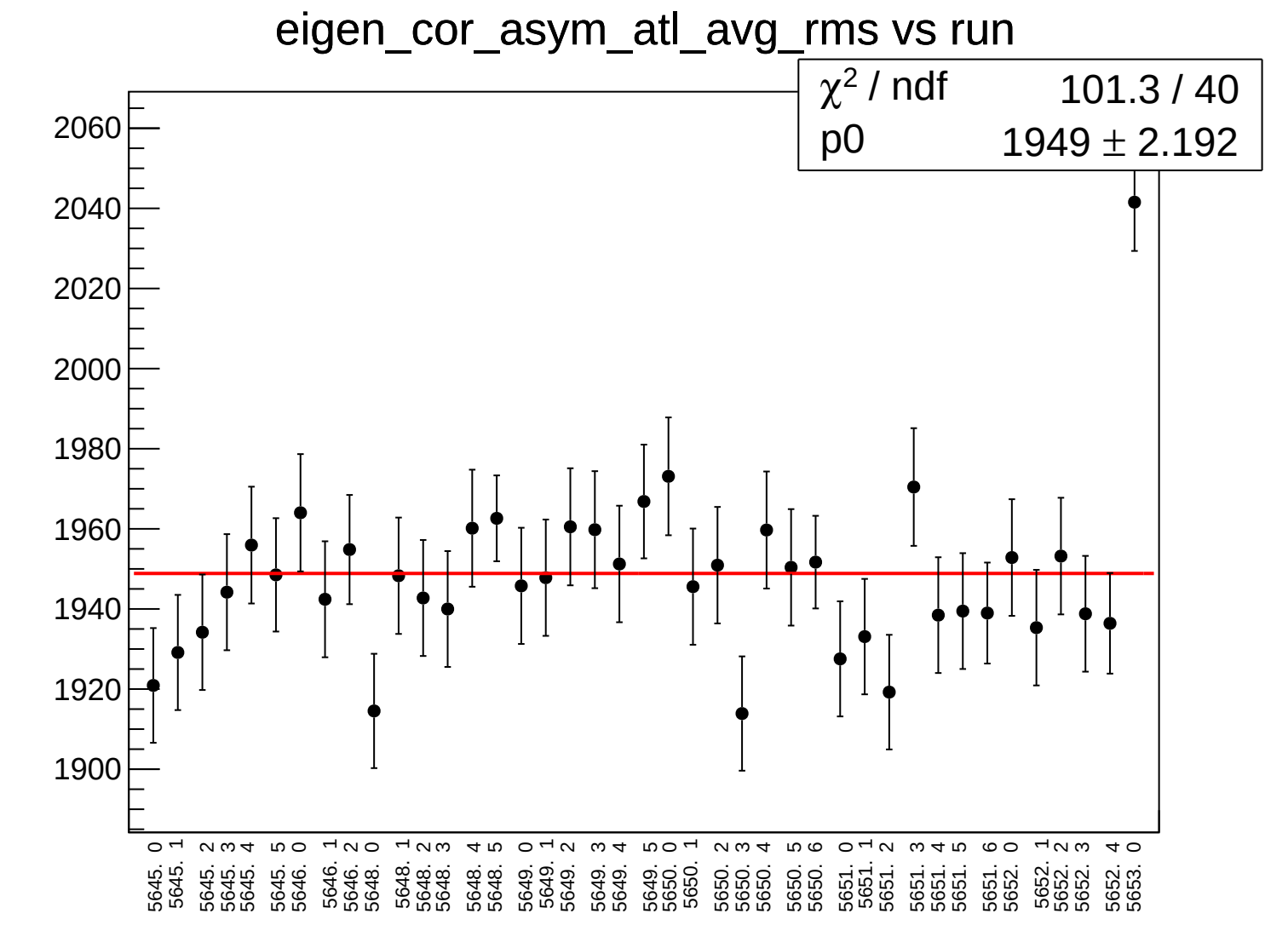
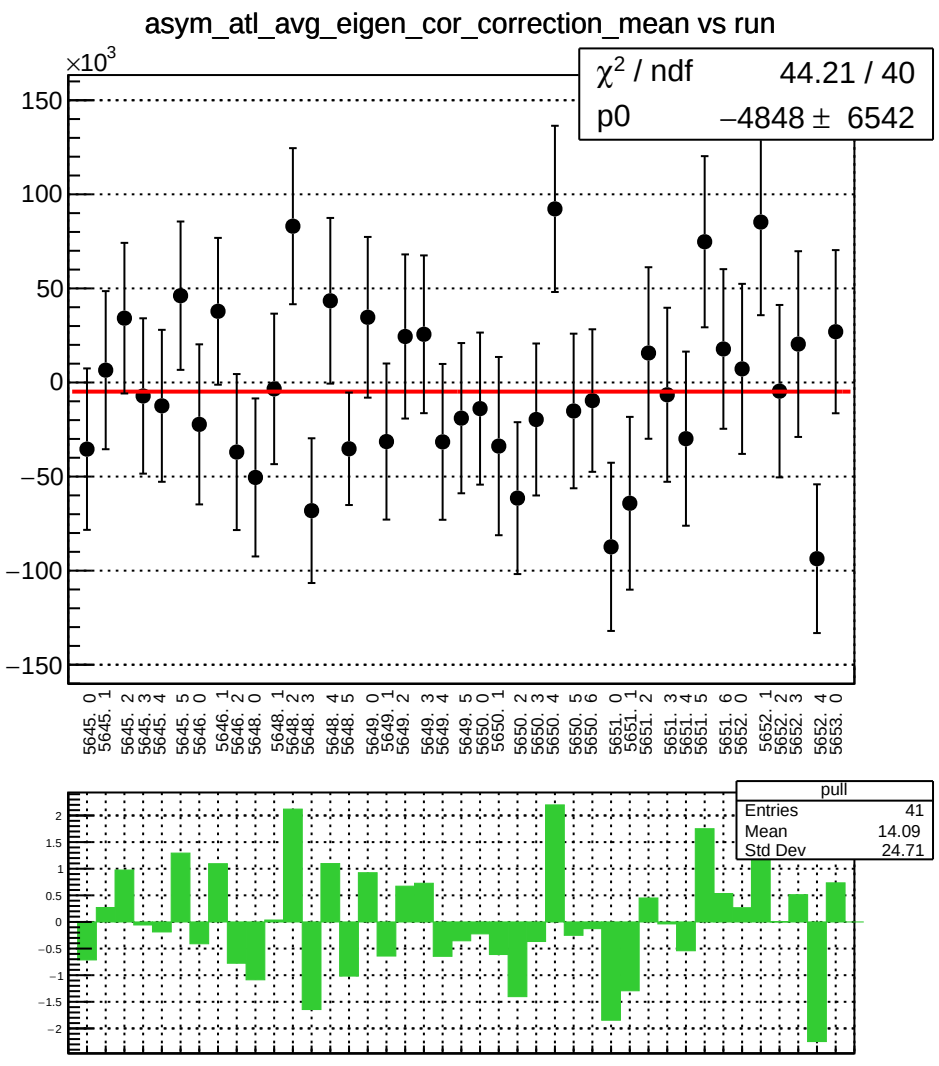
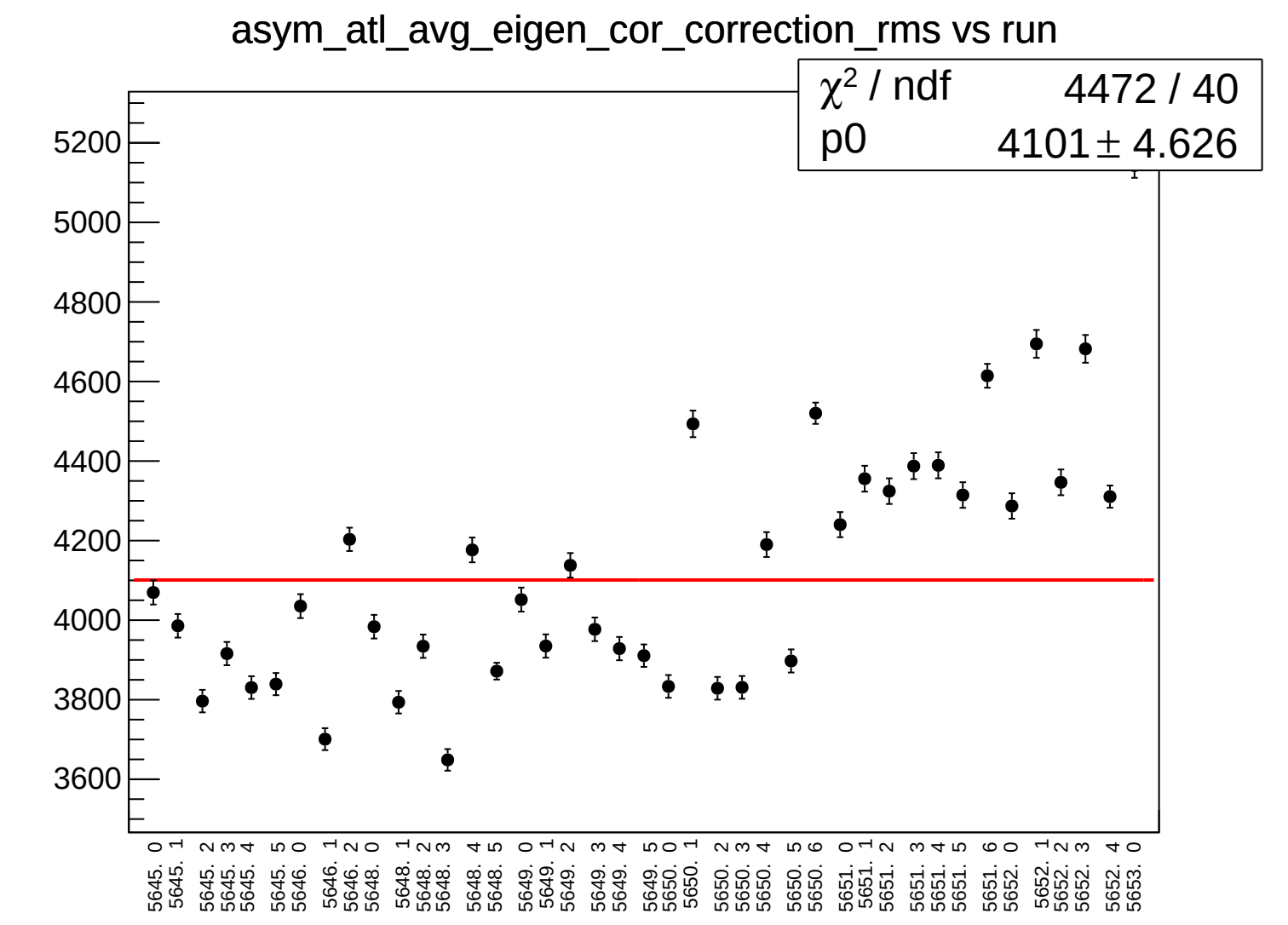
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 101.3 / 40
p0 1949 ± 2.192
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 44.21 / 40
p0 −4848 ± 6542
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.09
Std Dev 24.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02475
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 4472 / 40
p0 4101 ± 4.626
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
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5652. 2
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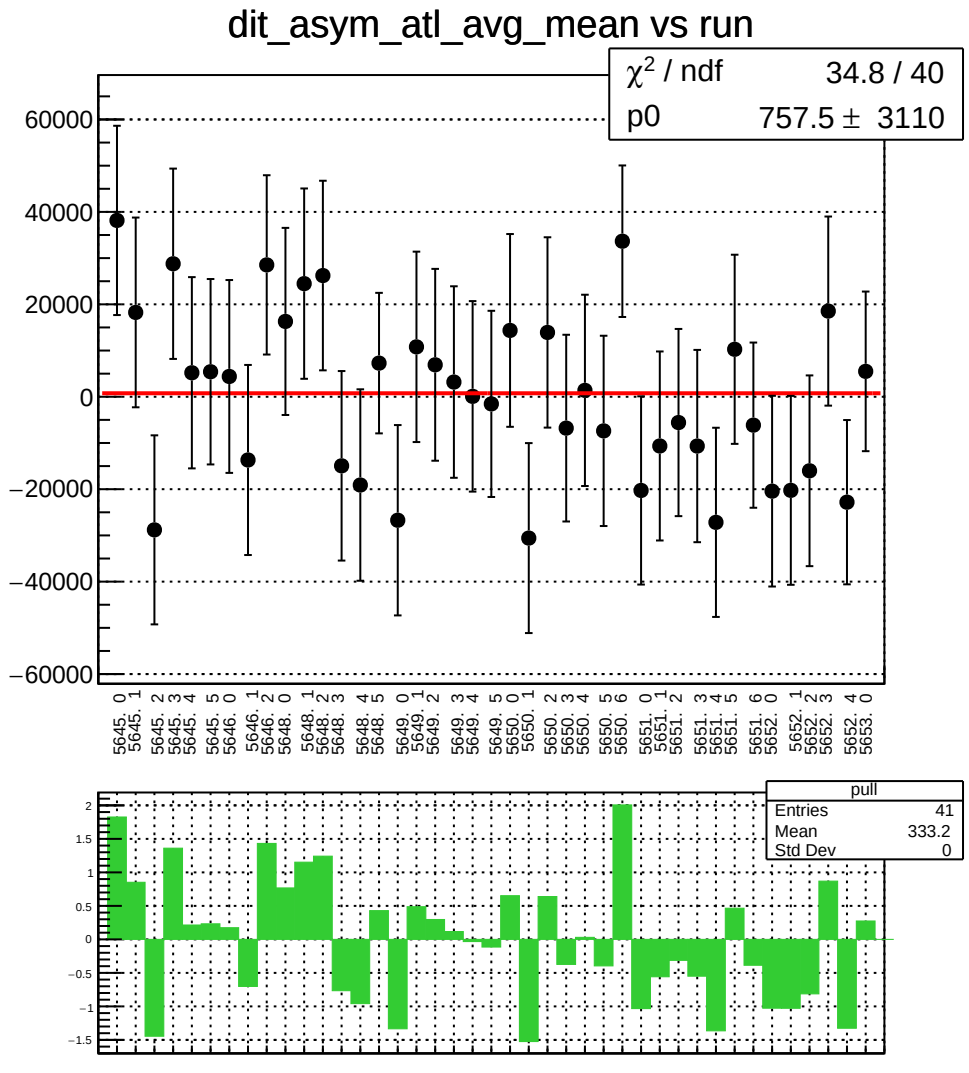
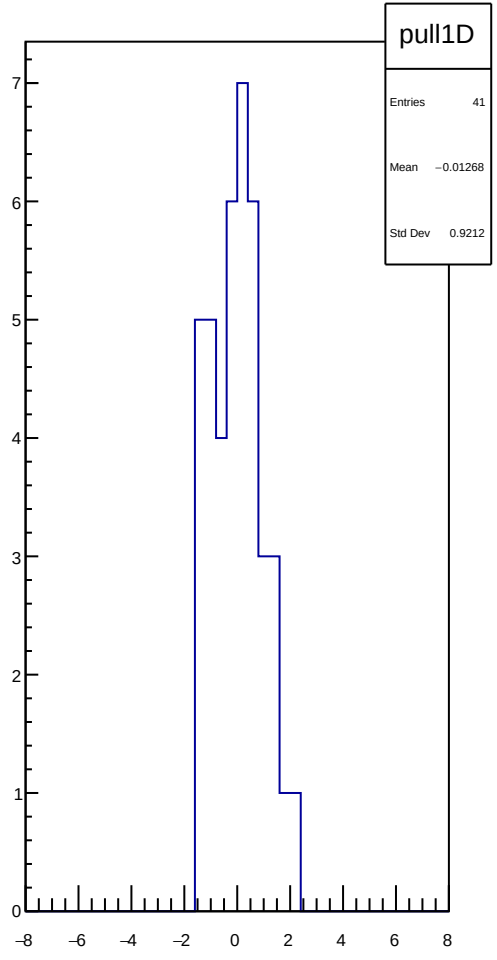
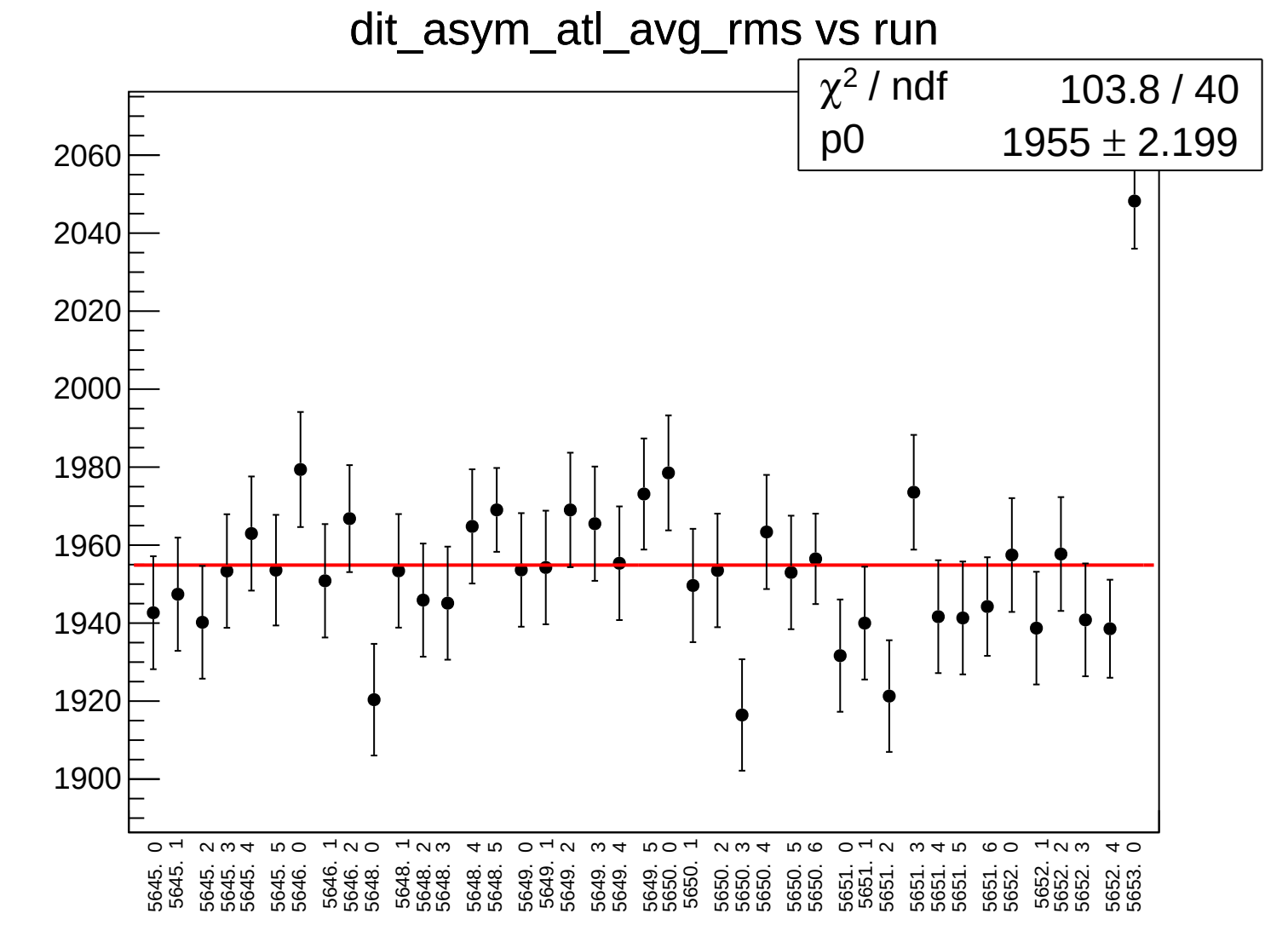
5653. 0


dit_asym_atl_avg_mean vs run
χ² / ndf 34.8 / 40
p0 757.5 ± 3110
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 333.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.01268
Std Dev 0.9212
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 103.8 / 40
p0 1955 ± 2.199
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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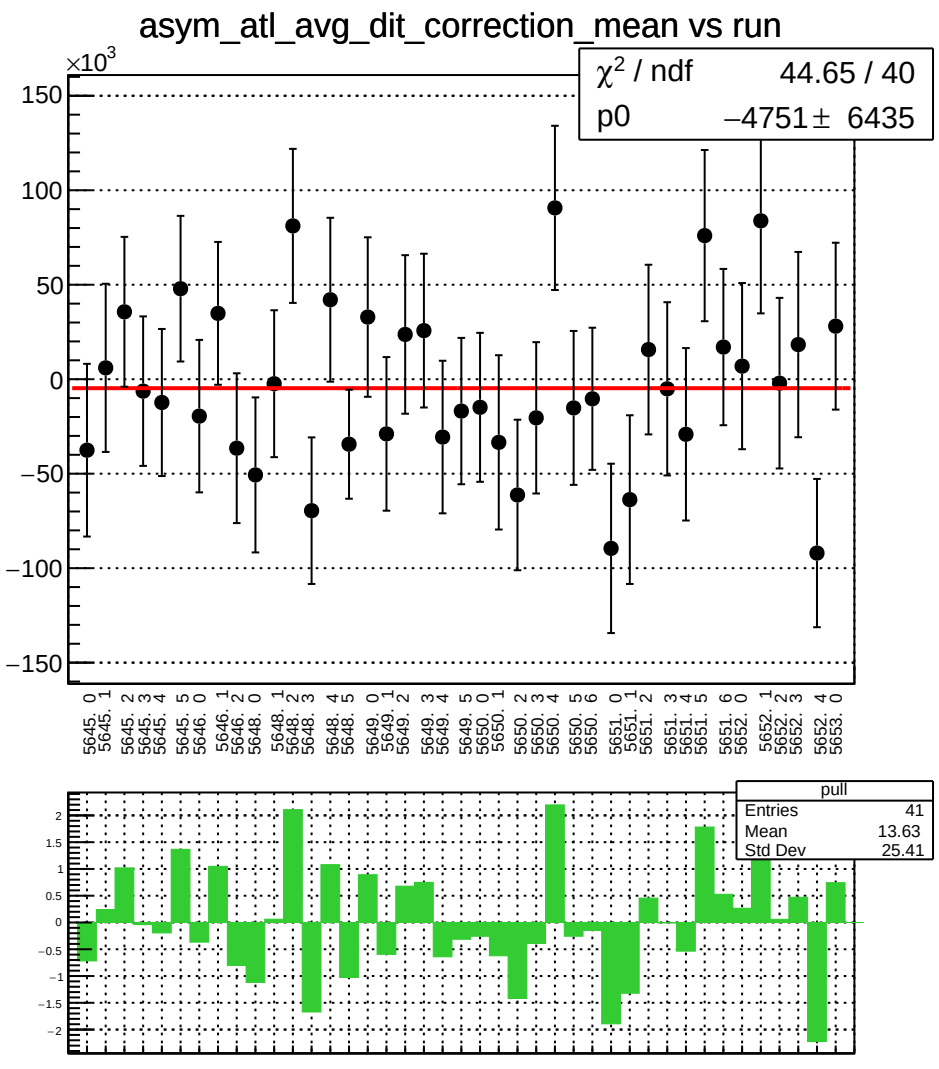
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 44.65 / 40
p0 −4751 ± 6435
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5649. 5
5650. 0
5650. 1
5650. 2
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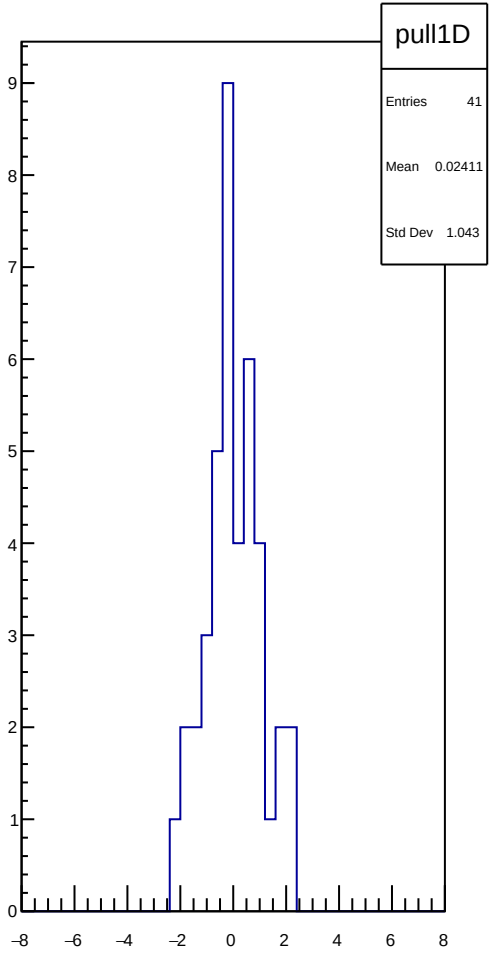
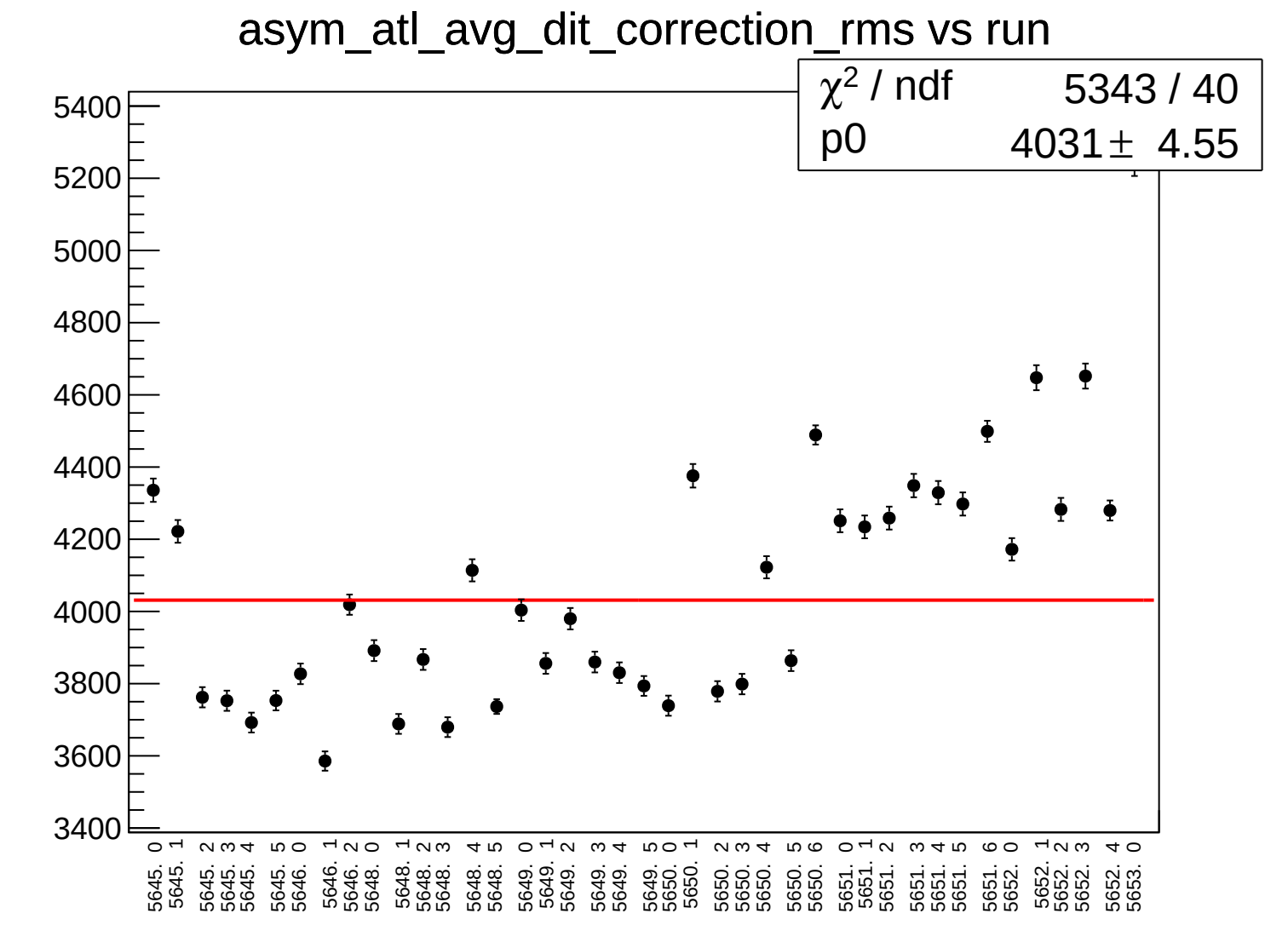
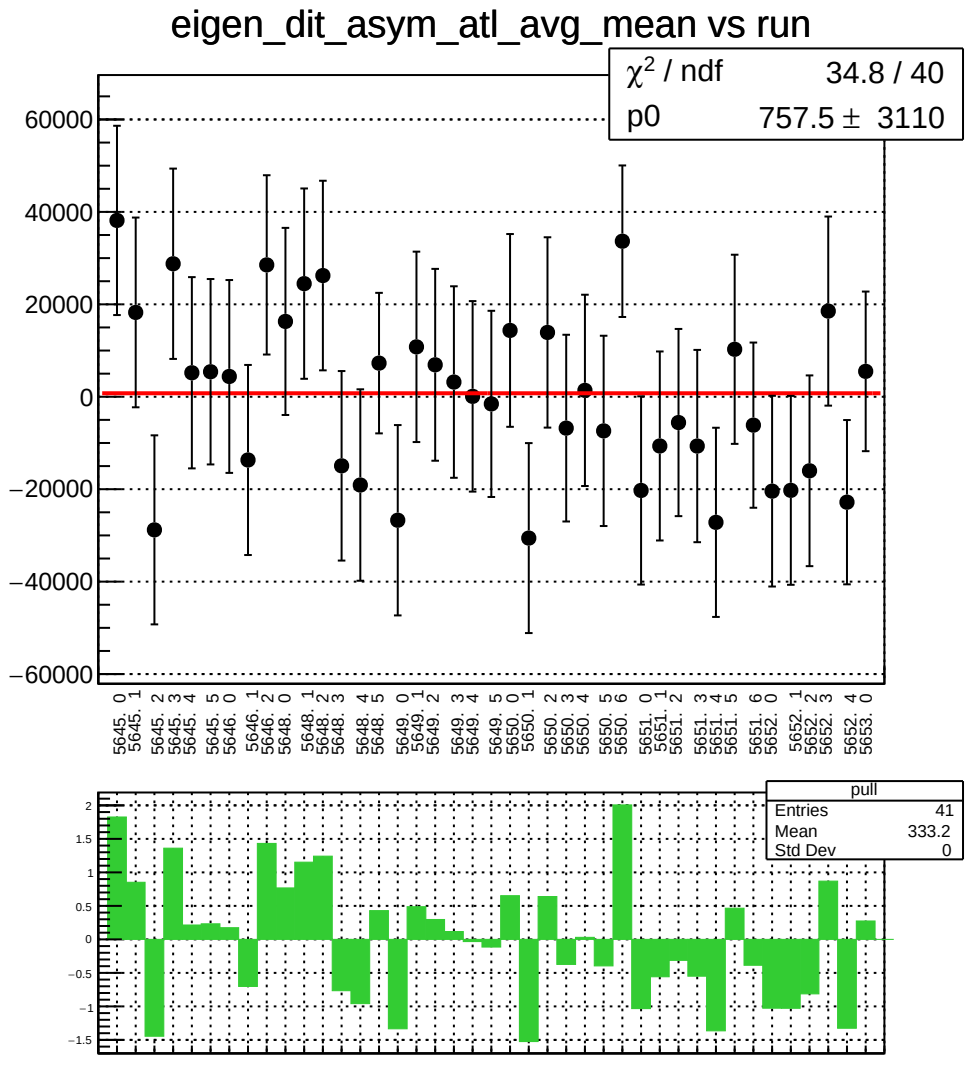
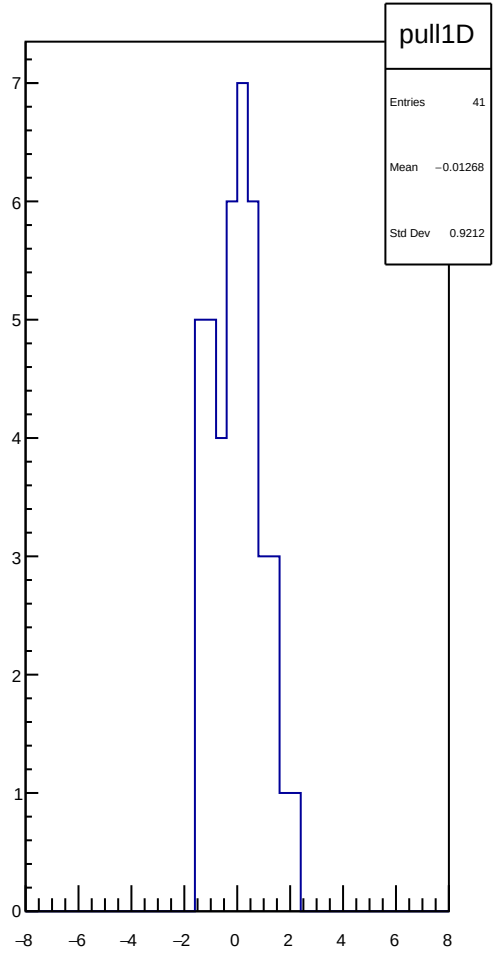
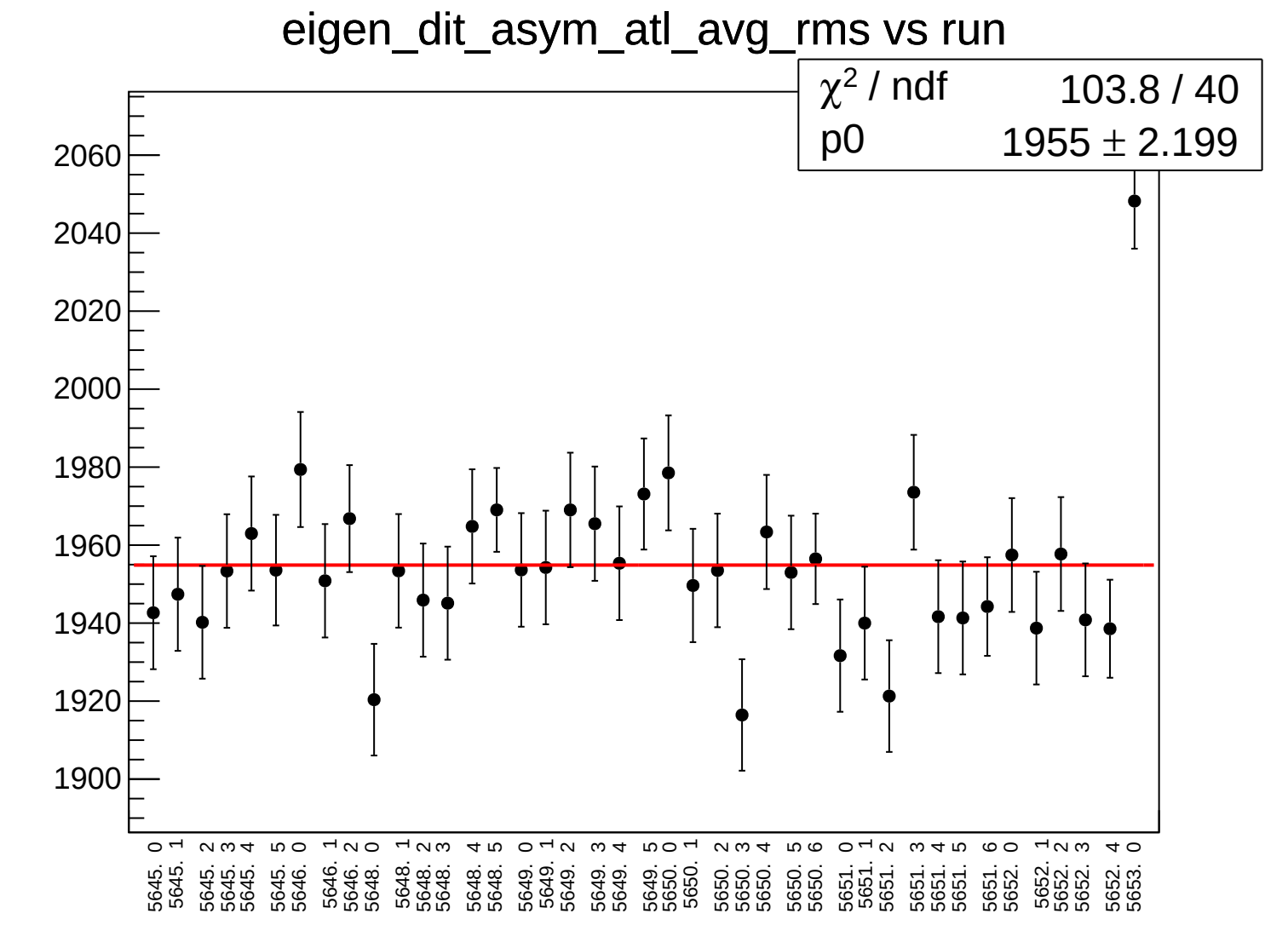
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.63
Std Dev 25.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

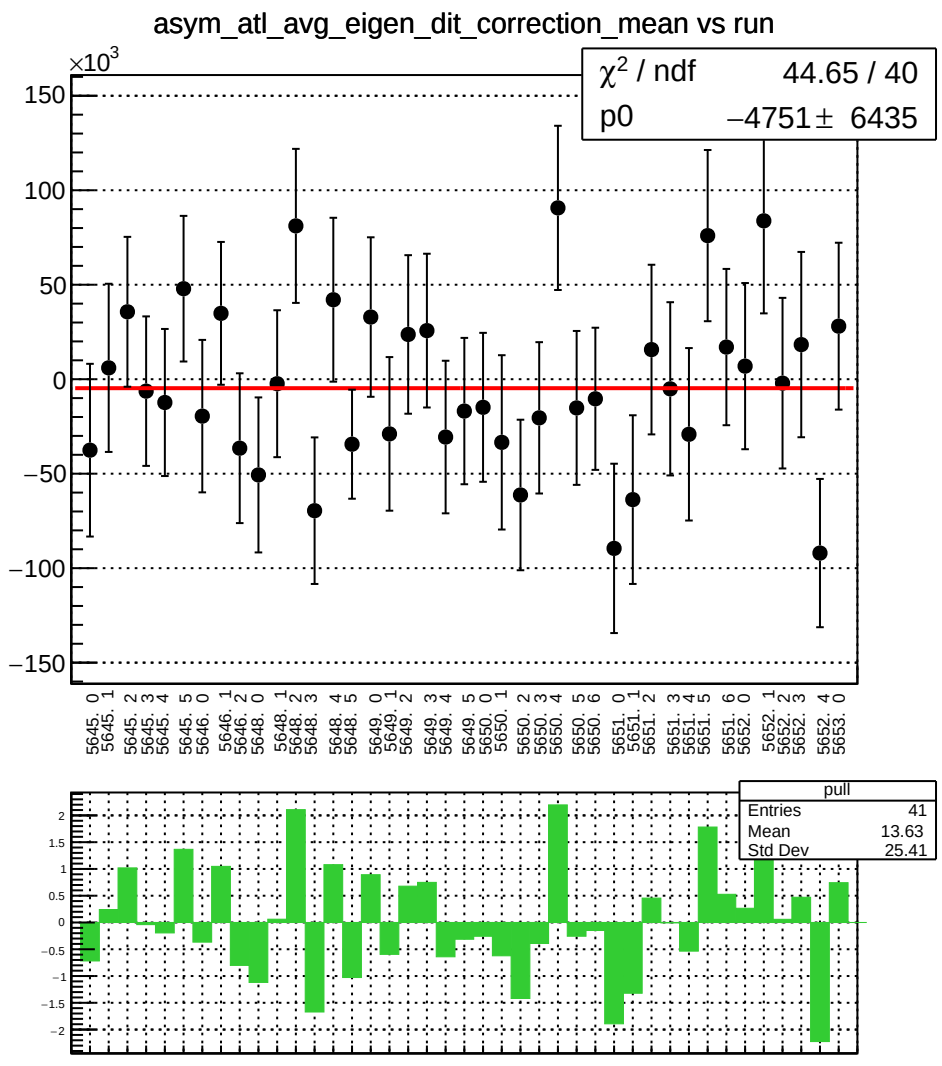

pull1D
Entries 41
Mean 0.02411
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

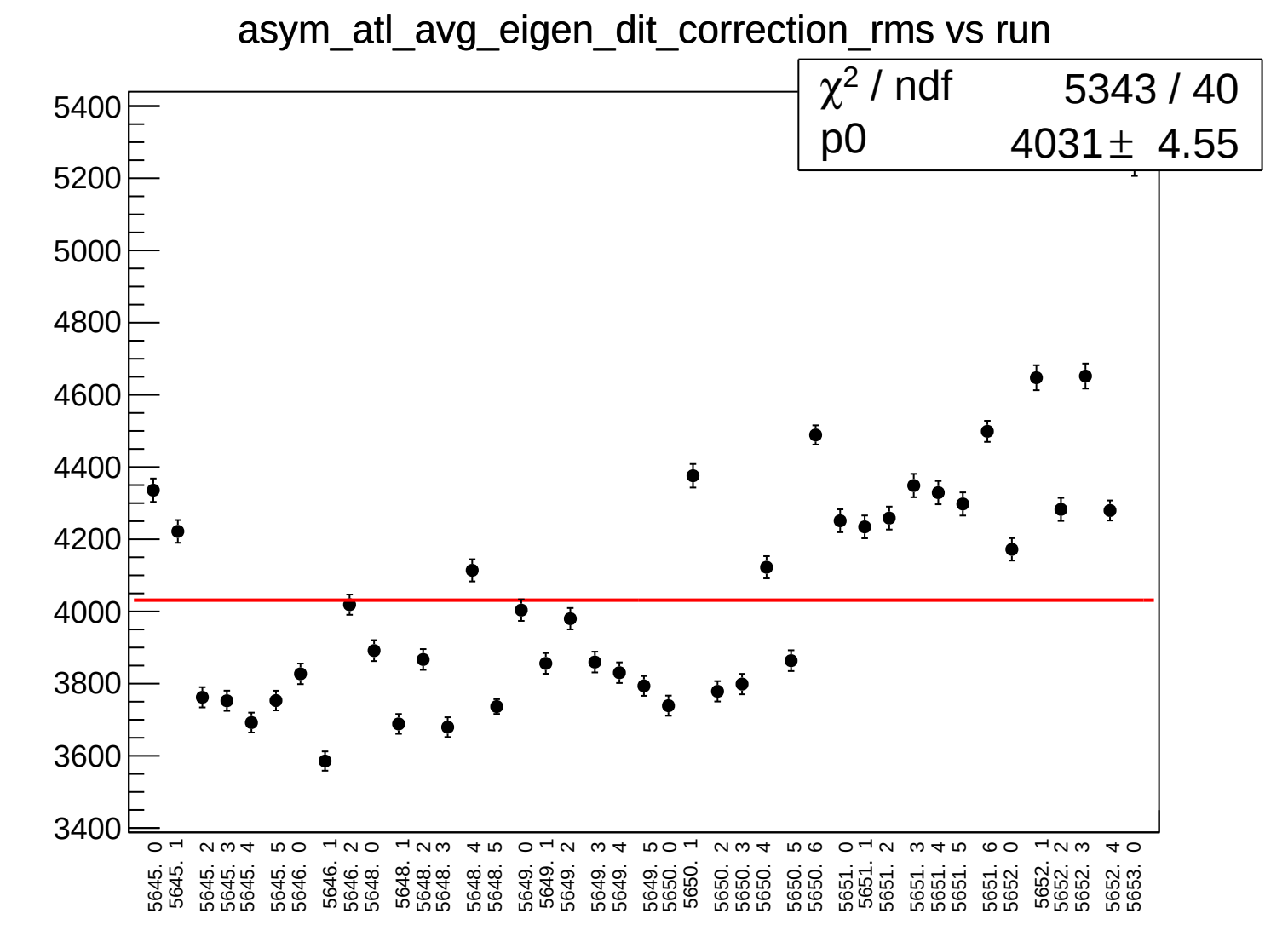

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5343 / 40
p0 4031 ± 4.55
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

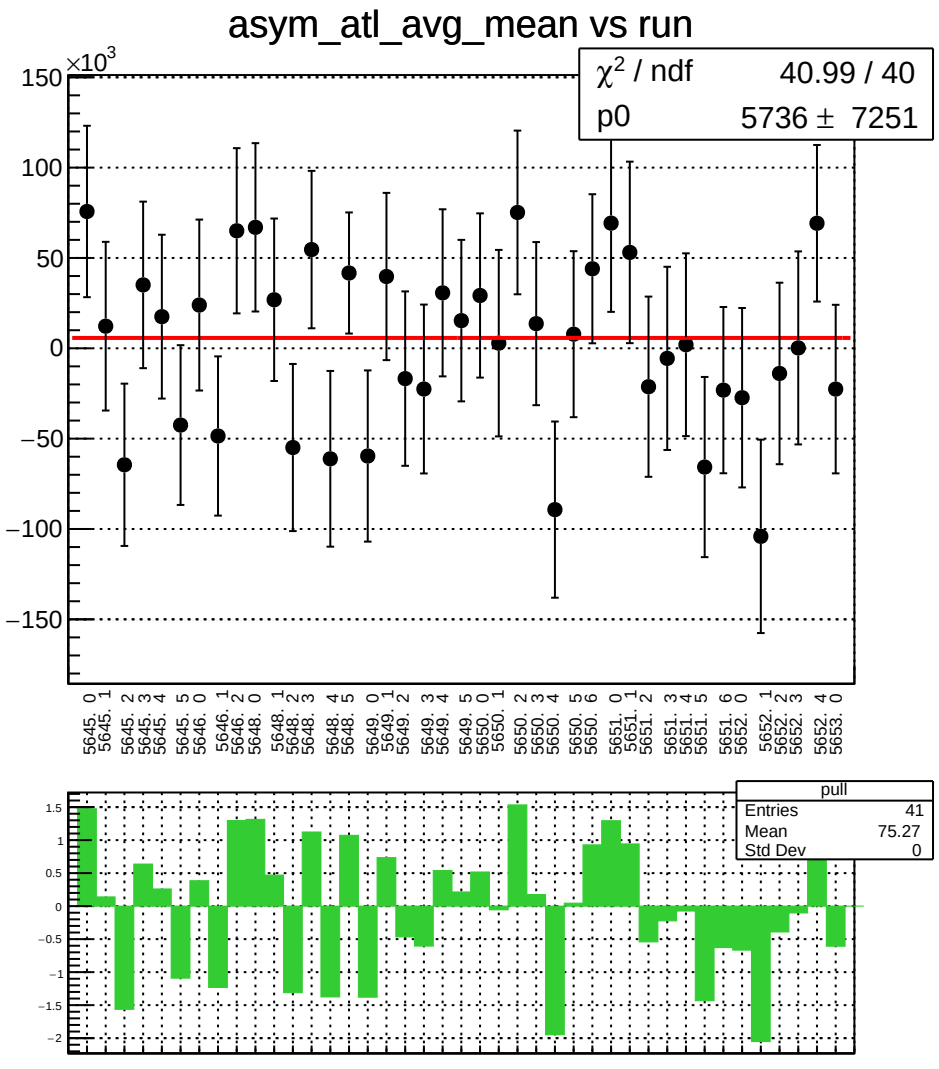

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 34.8 / 40
p0 757.5 ± 3110
pull
Entries 41
Mean 333.2
Std Dev 0

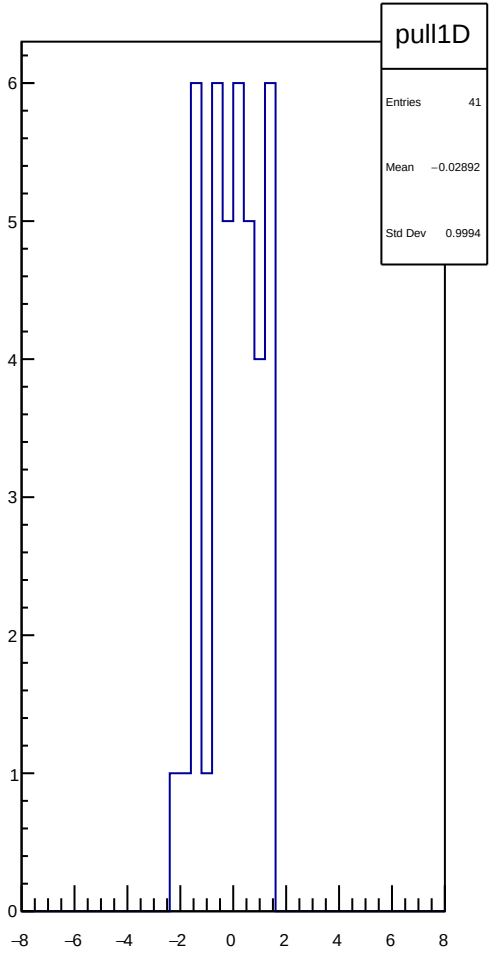

pull1D
Entries 41
Mean −0.01268
Std Dev 0.9212

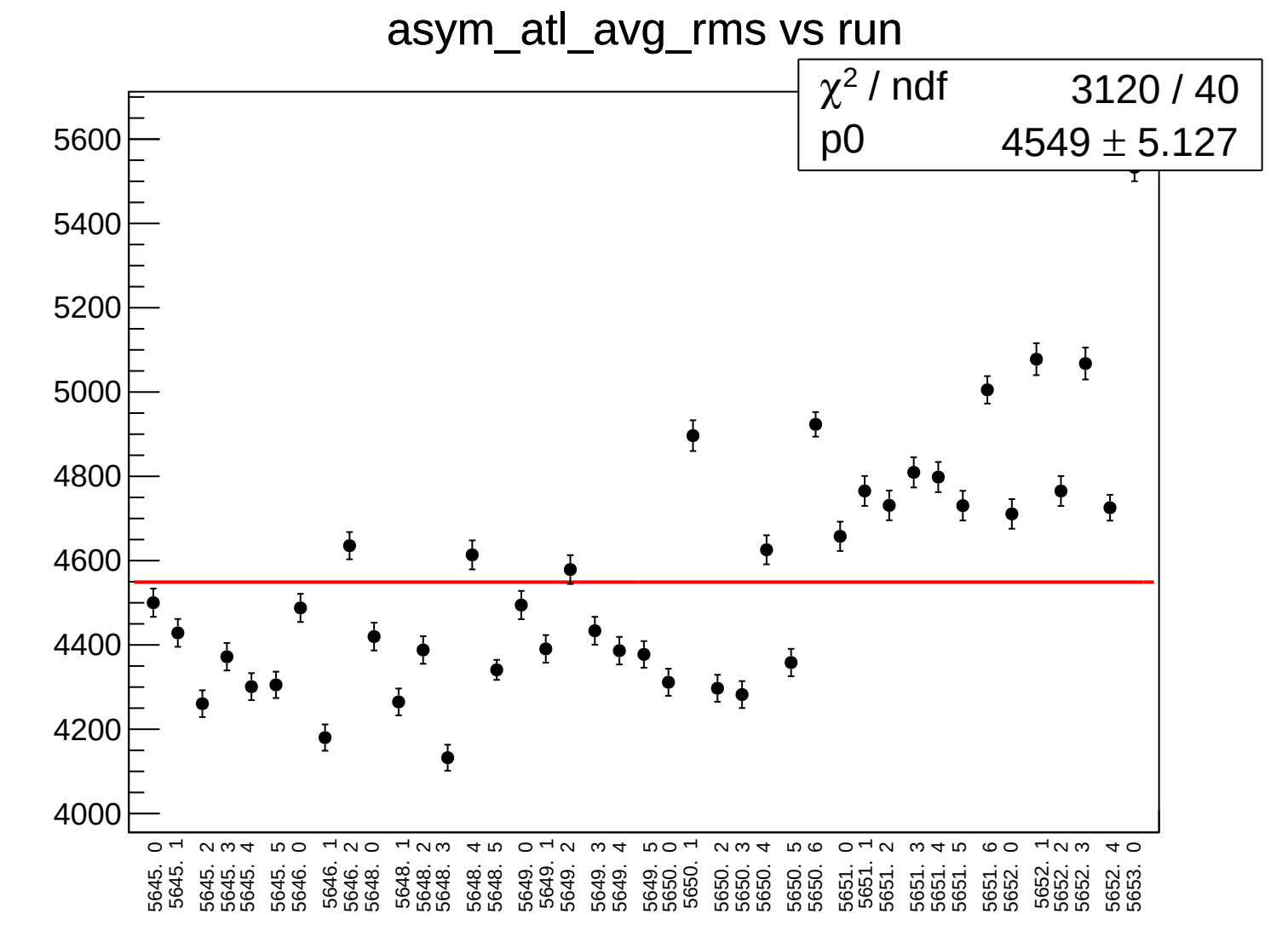

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 103.8 / 40
p0 1955 ± 2.199
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

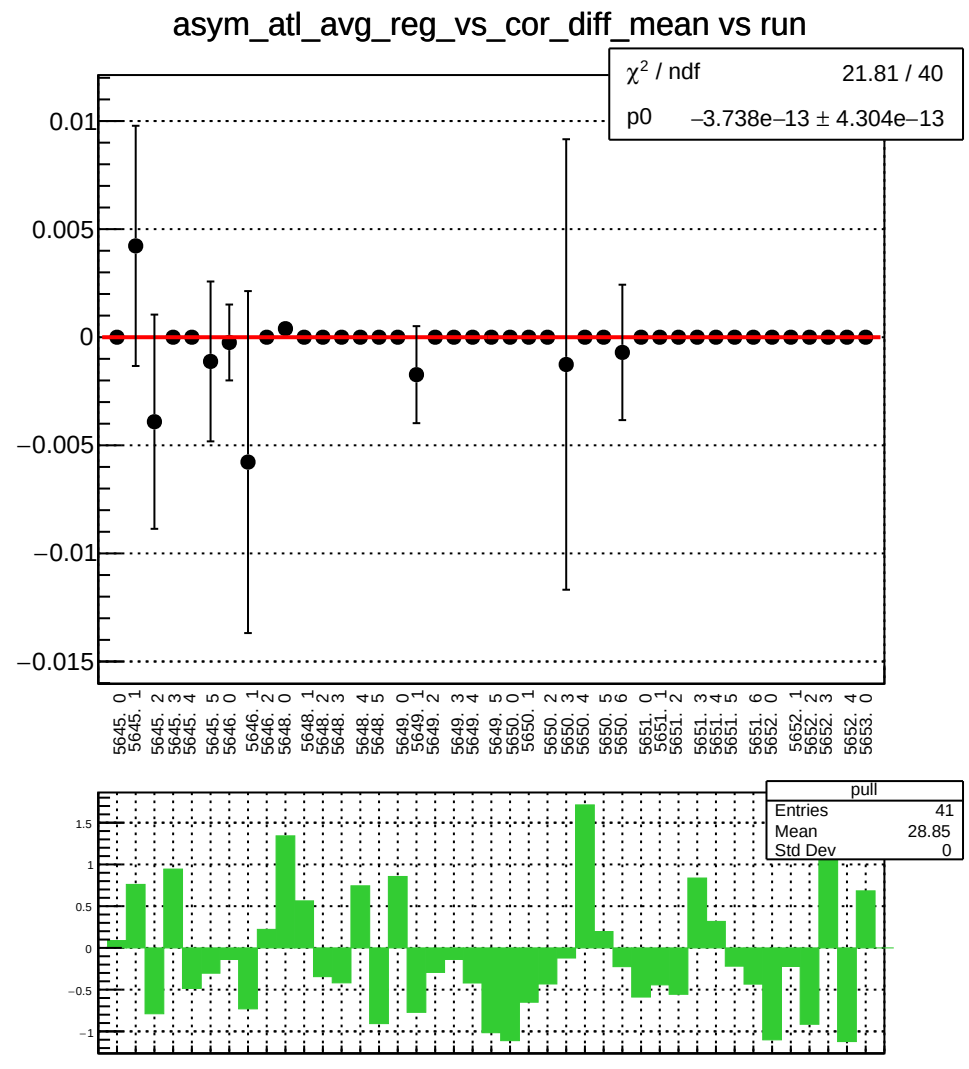

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 44.65 / 40
p0 −4751 ± 6435
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.63
Std Dev 25.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02411
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

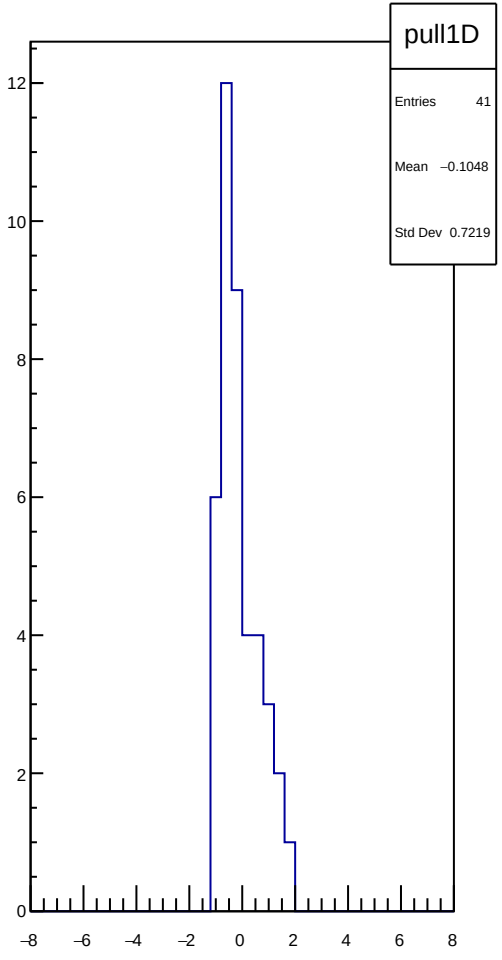

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5343 / 40
p0 4031 ± 4.55
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

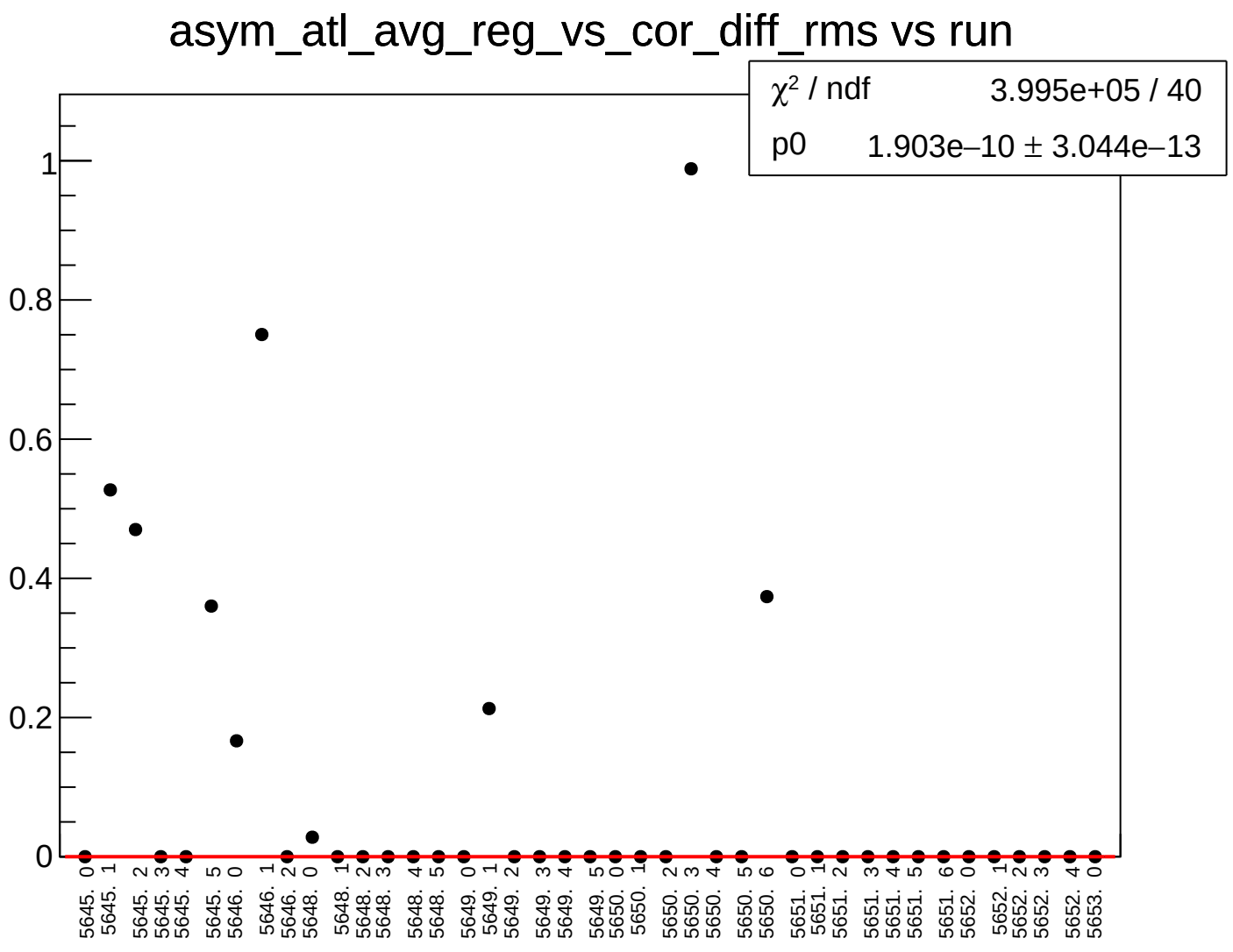

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 40.99 / 40
p0 5736 ± 7251
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 75.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

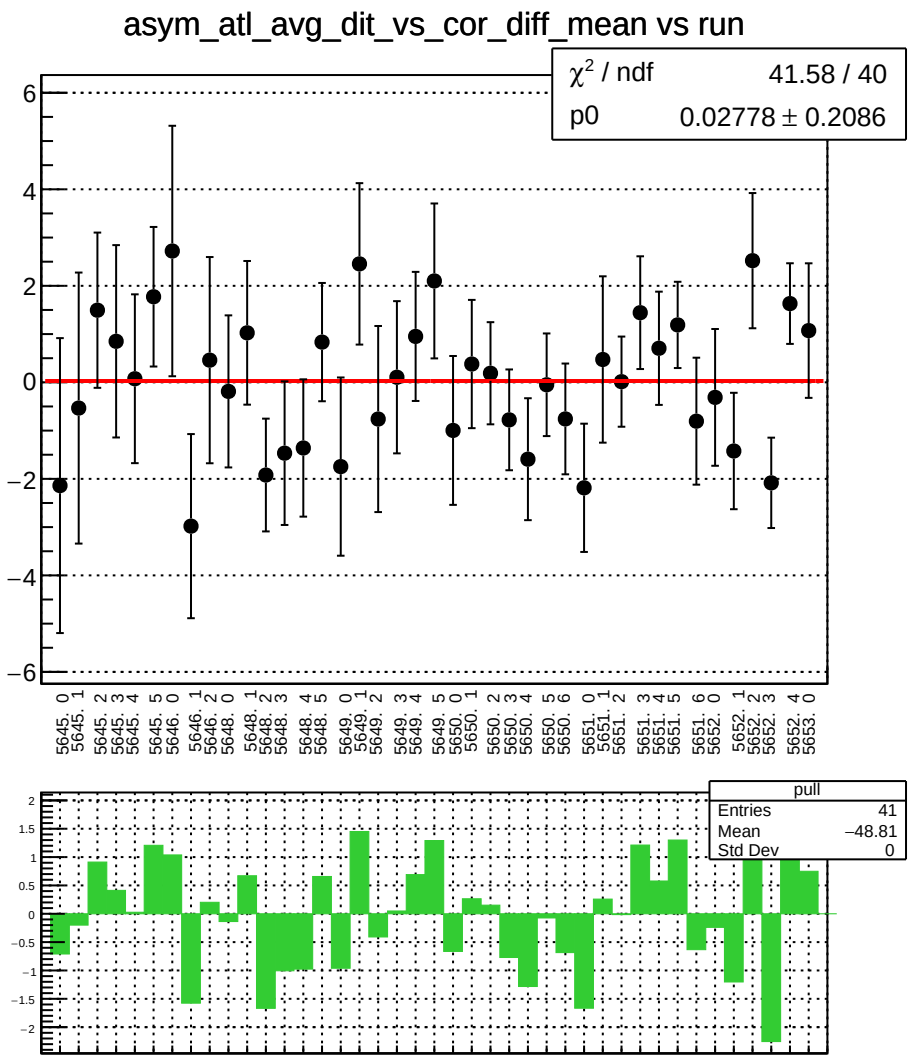

pull1D
Entries 41
Mean −0.02892
Std Dev 0.9994
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

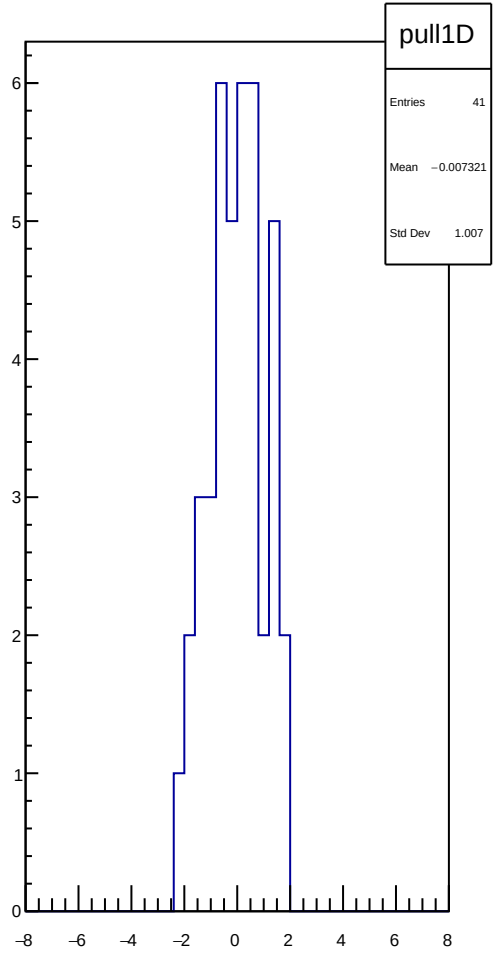

asym_atl_avg_rms vs run
χ² / ndf 3120 / 40
p0 4549 ± 5.127
5600
5400
5200
5000
4800
4600
4400
4200
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

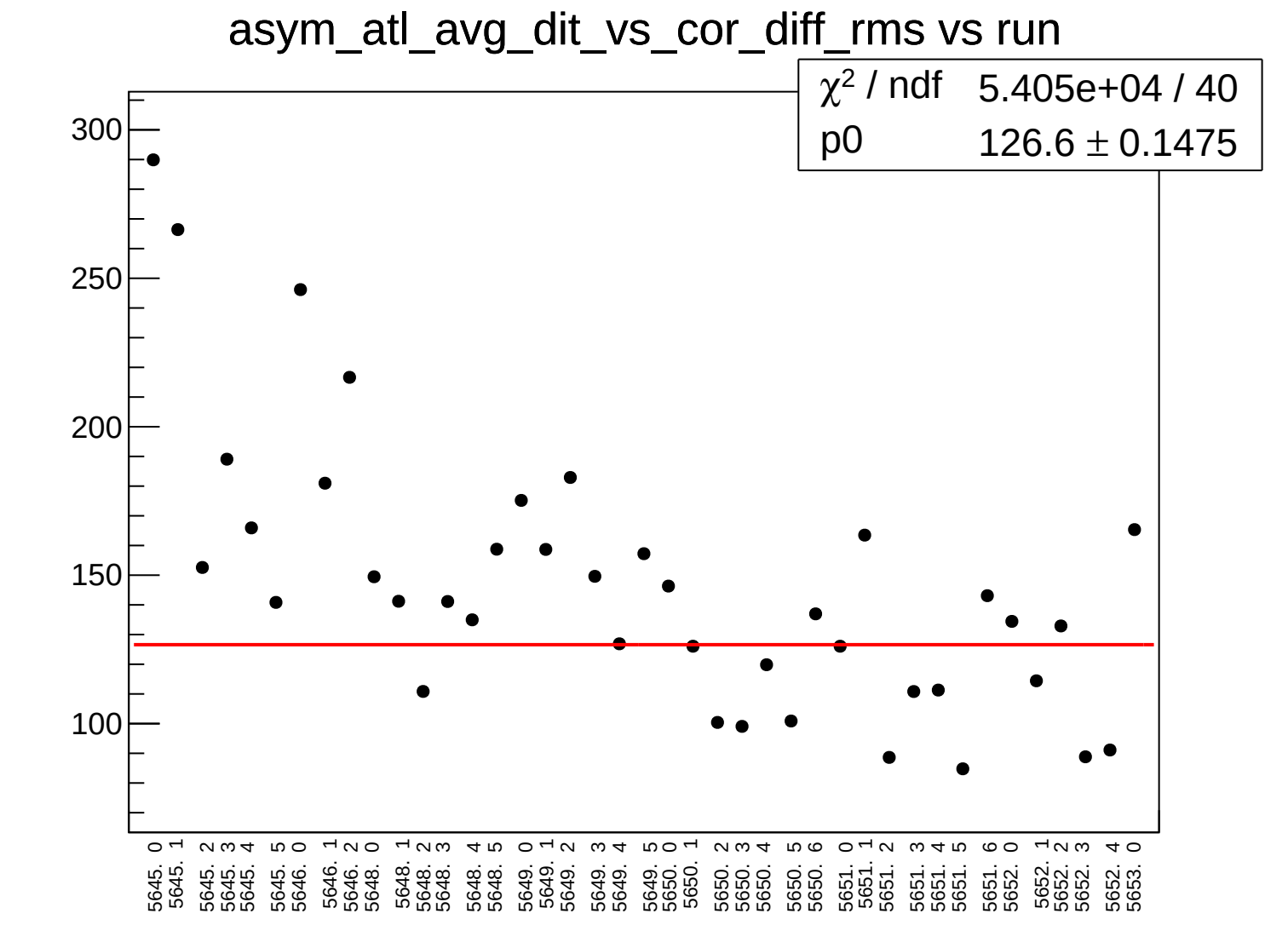

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.81 / 40
p0 −3.738e−13 ± 4.304e−13
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.1048
Std Dev 0.7219
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

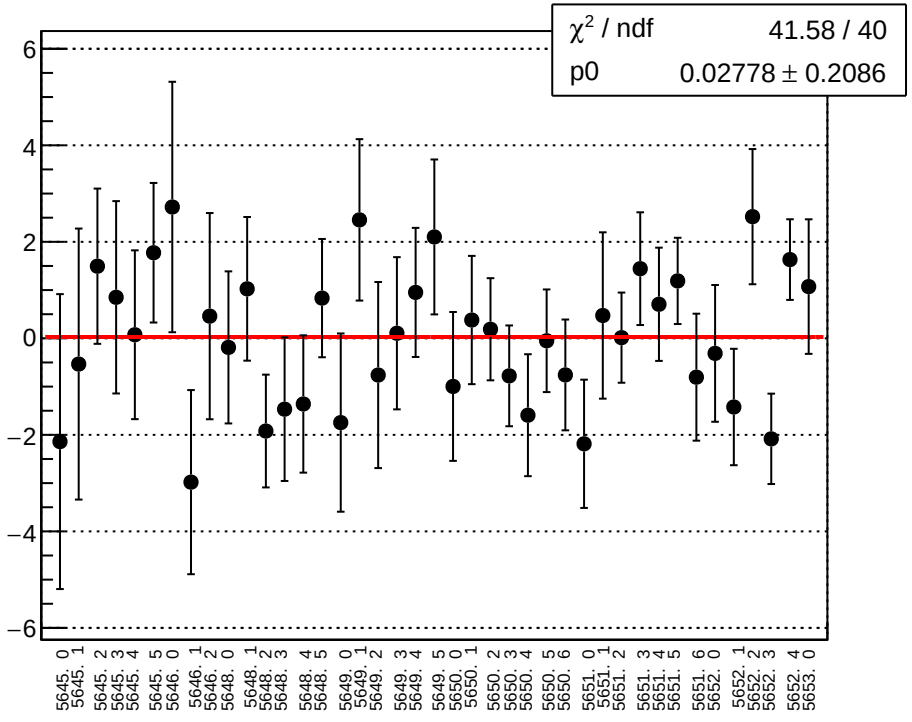

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.995e+05 / 40
p0 1.903e−10 ± 3.044e−13
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

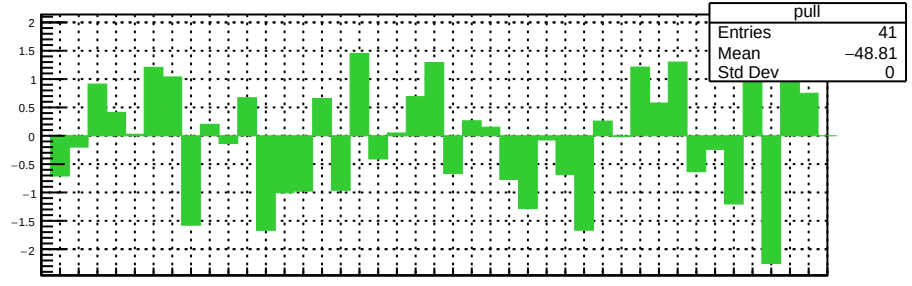

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.58 / 40
p0 0.02778 ± 0.2086
pull
Entries 41
Mean −48.81
Std Dev 0

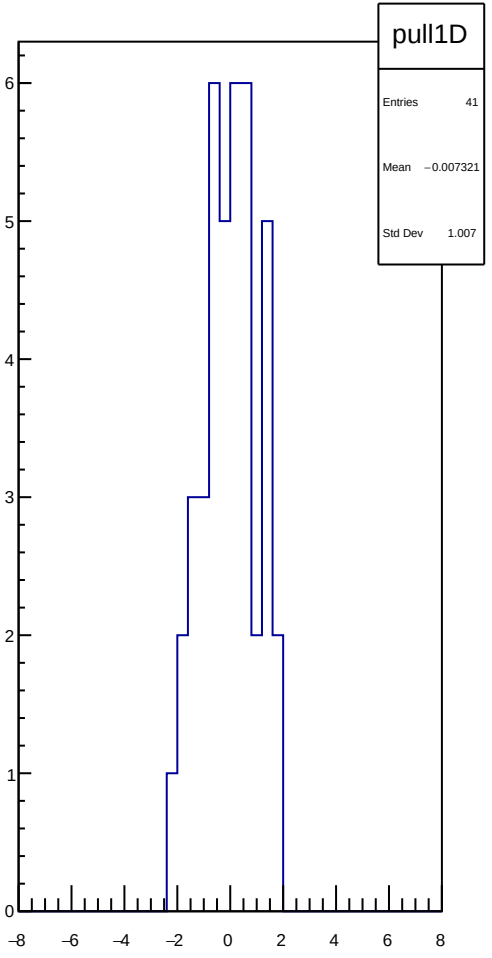

pull1D
Entries 41
Mean −0.007321
Std Dev 1.007

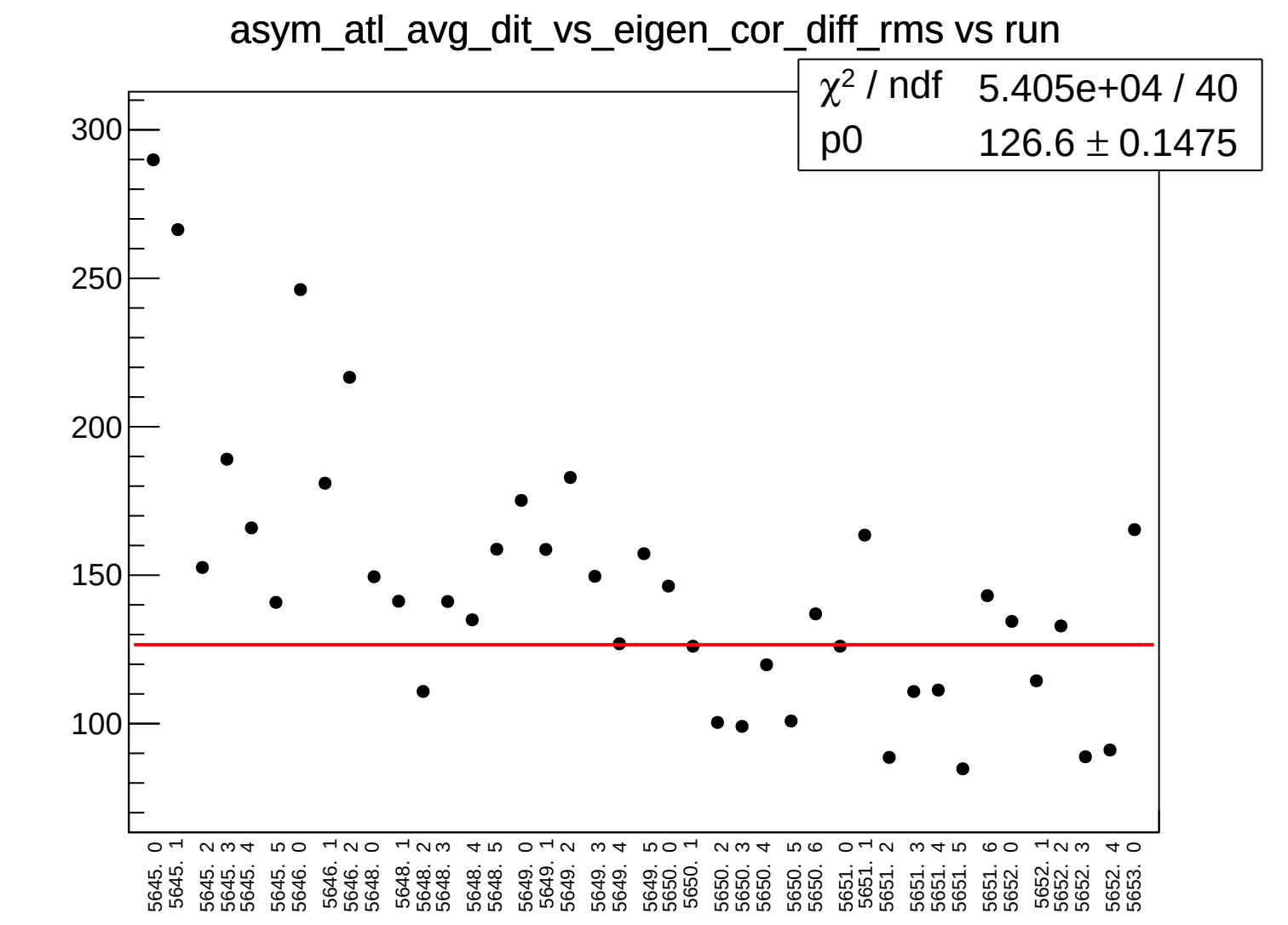

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.405e+04 / 40
p0 126.6 ± 0.1475
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

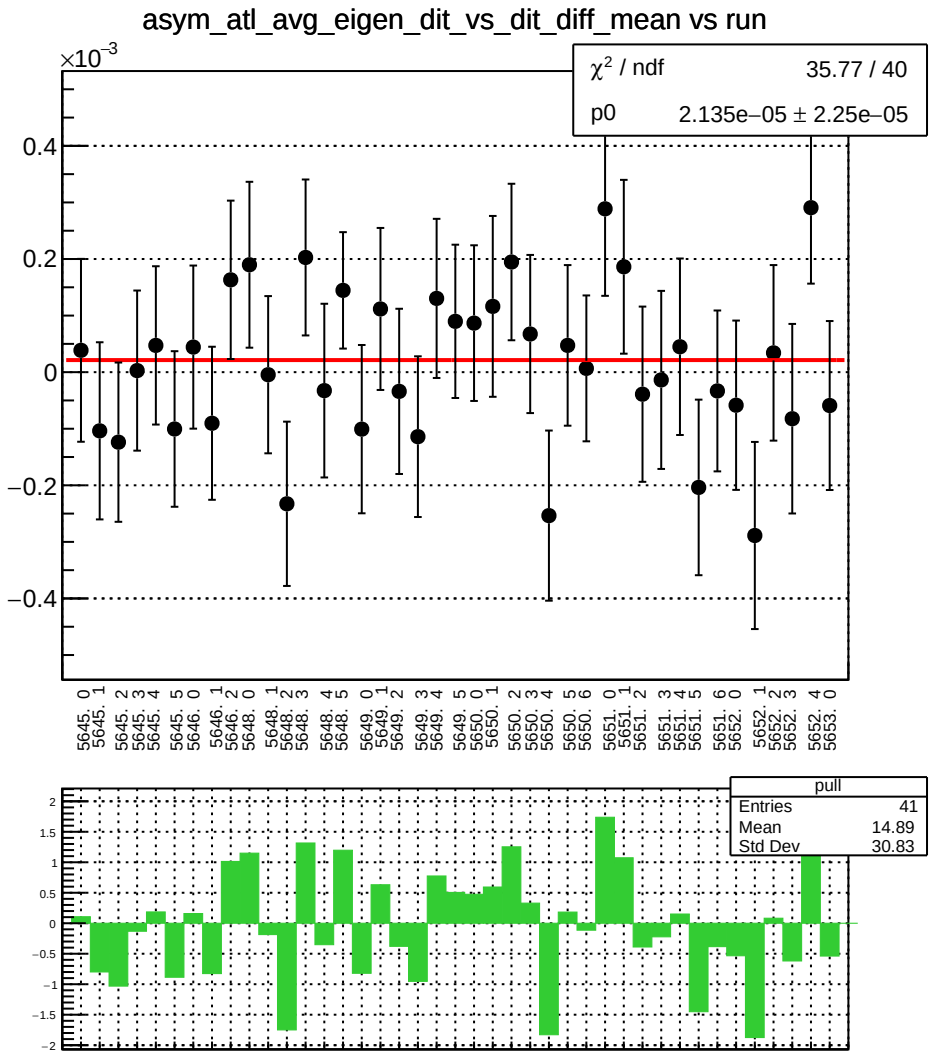
asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run

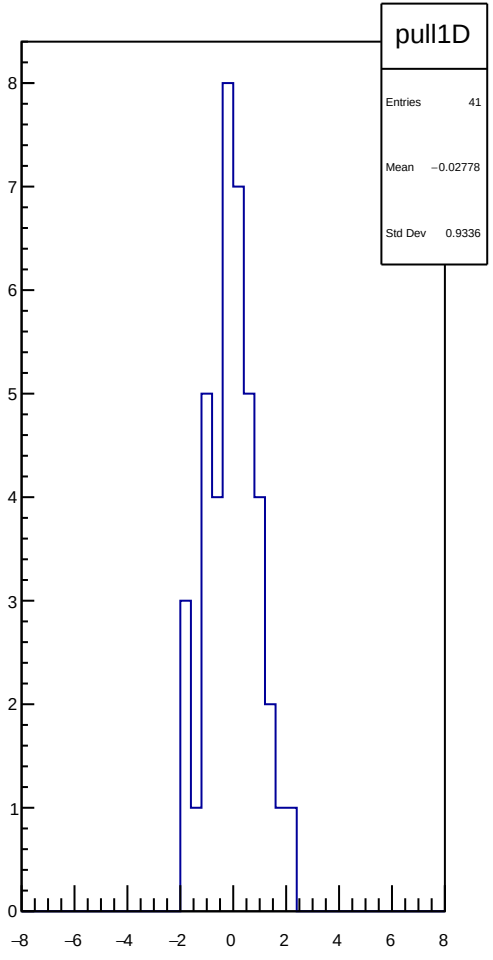


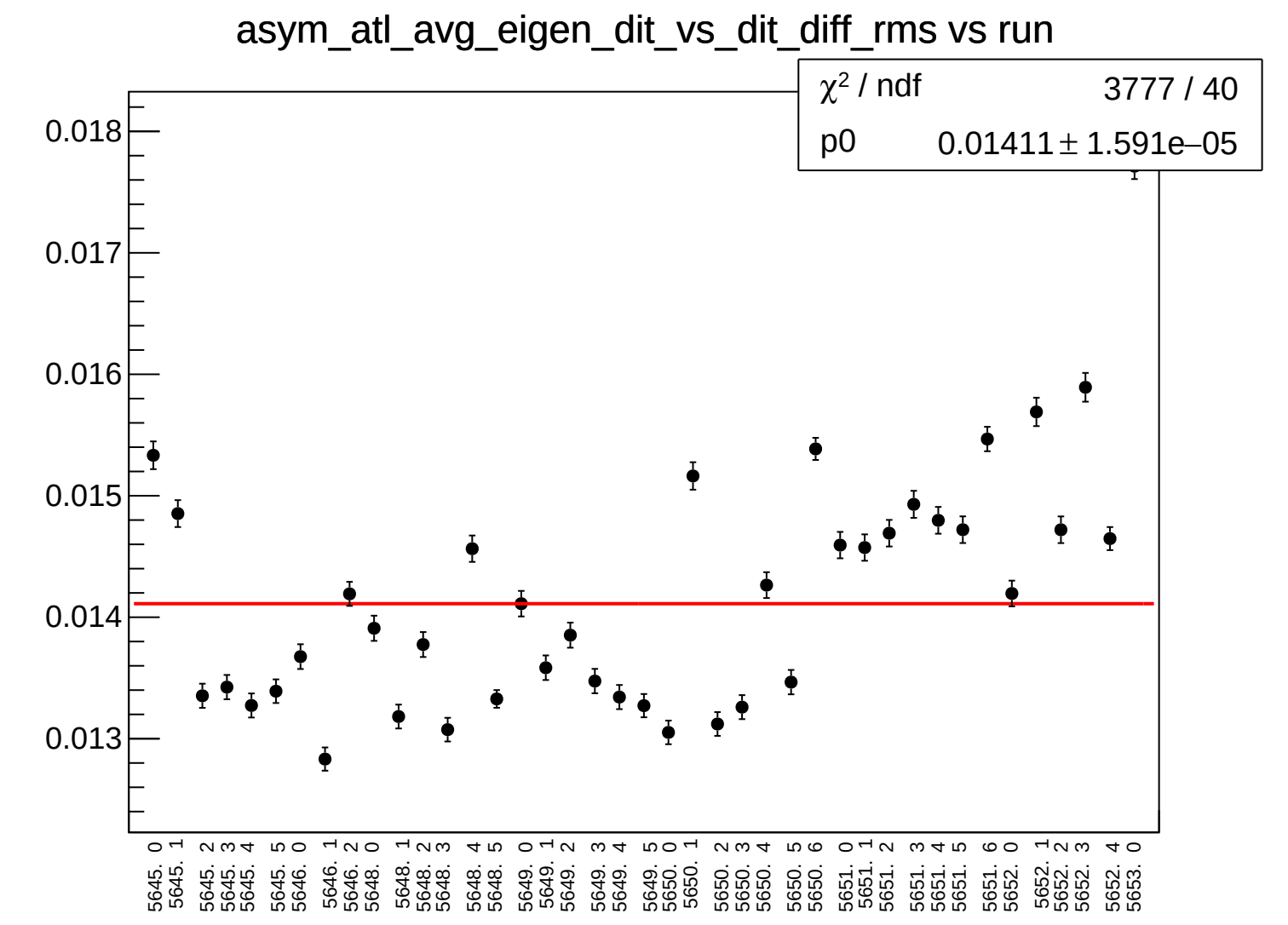


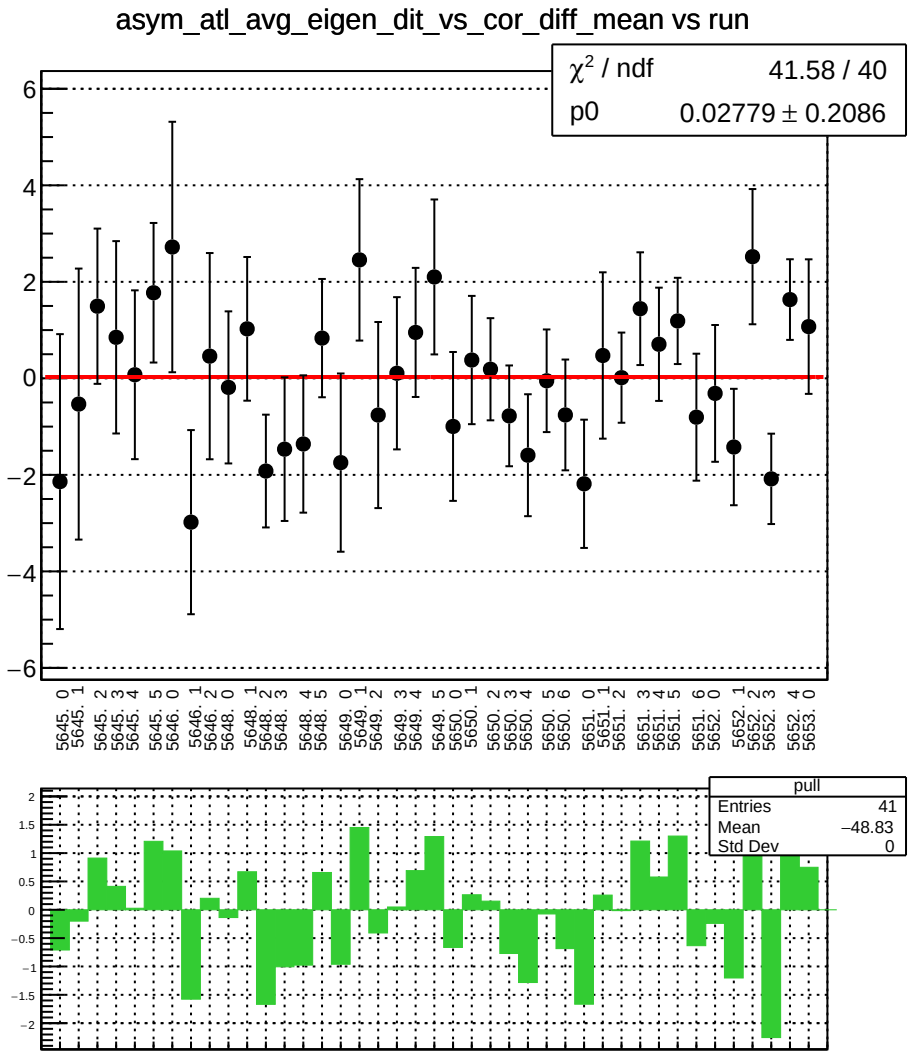


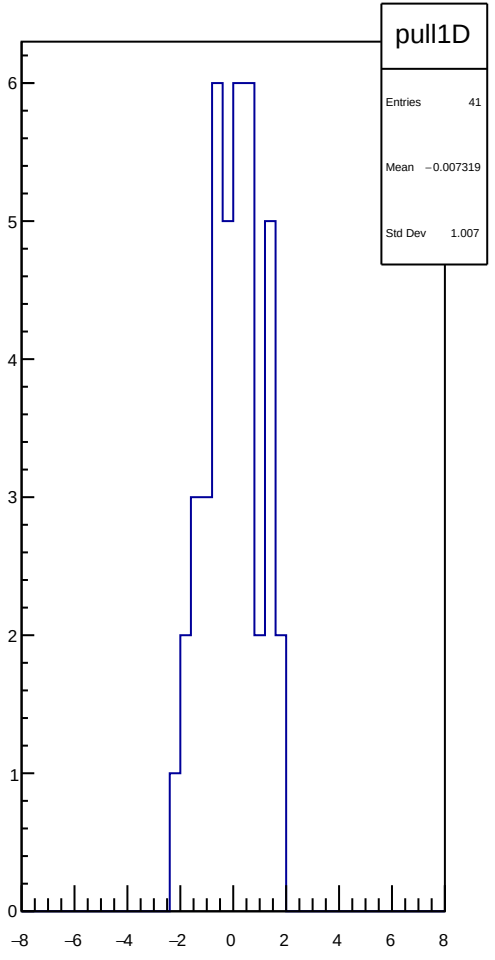

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.405e+04 / 40
p0 126.6 ± 0.1475
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

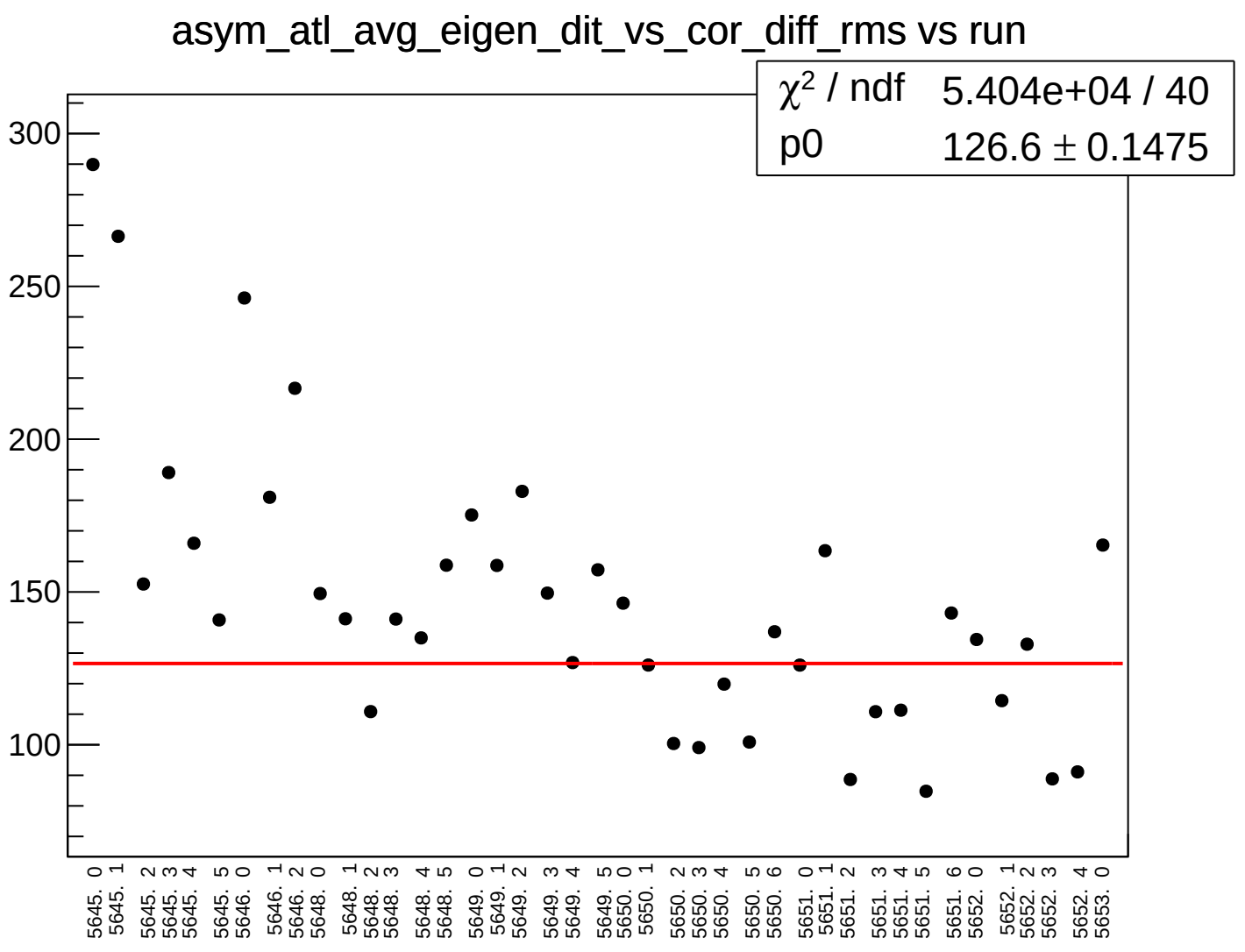

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.77 / 40
p0 2.135e−05 ± 2.25e−05
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.89
Std Dev 30.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

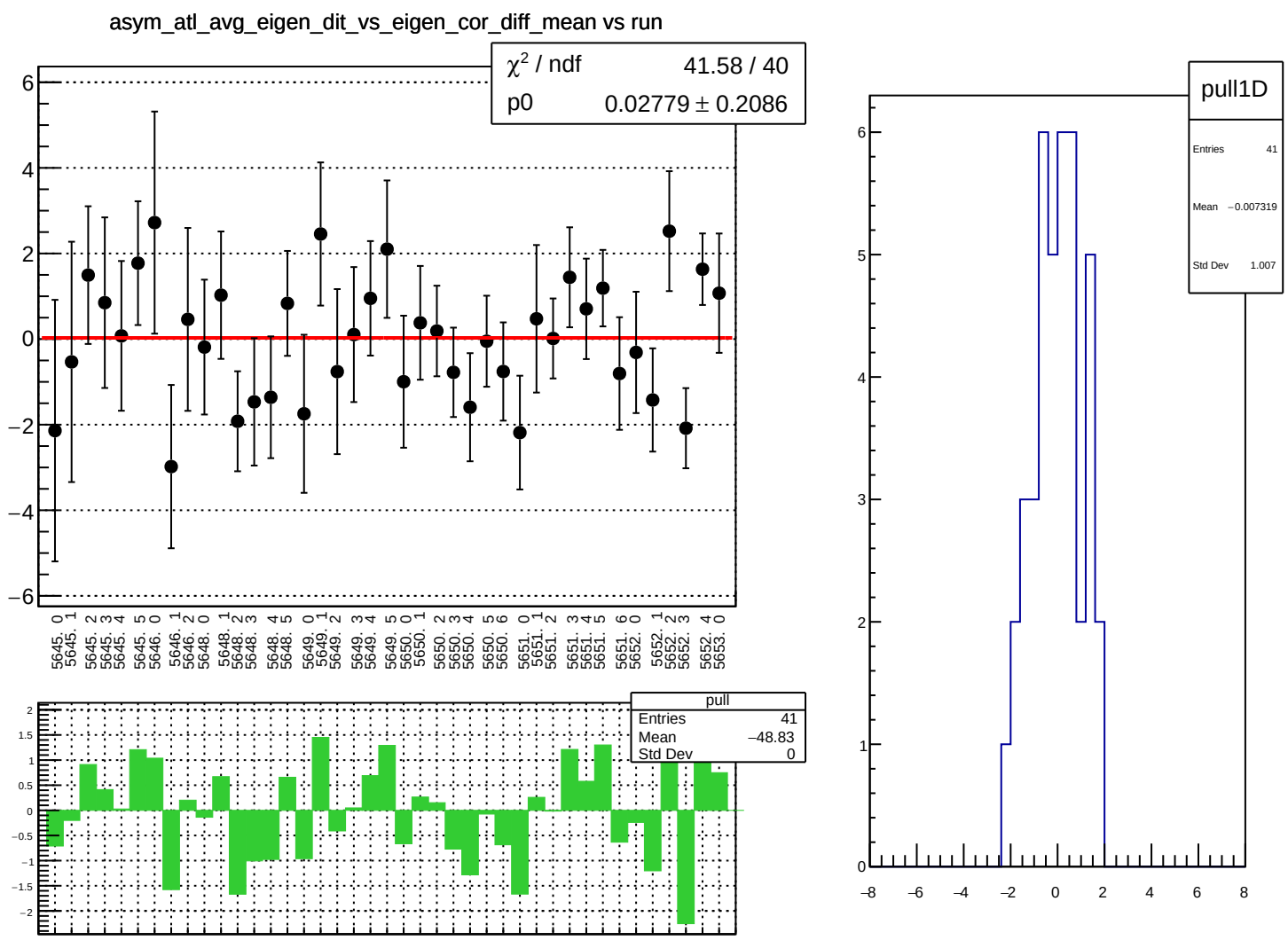

pull1D
Entries 41
Mean −0.02778
Std Dev 0.9336
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

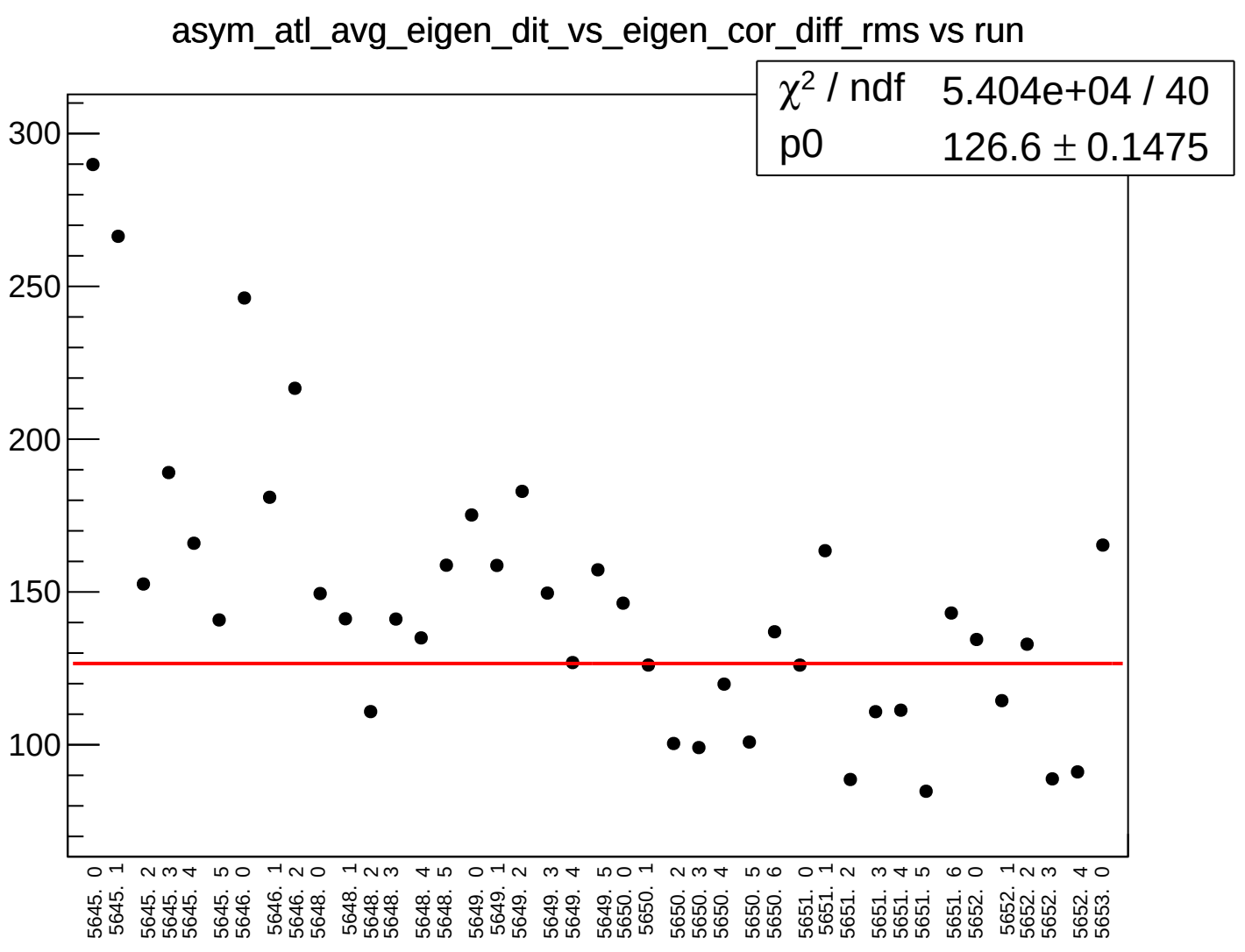

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3777 / 40
p0 0.01411 ± 1.591e–05
0.018
0.017
0.016
0.015
0.014
0.013
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

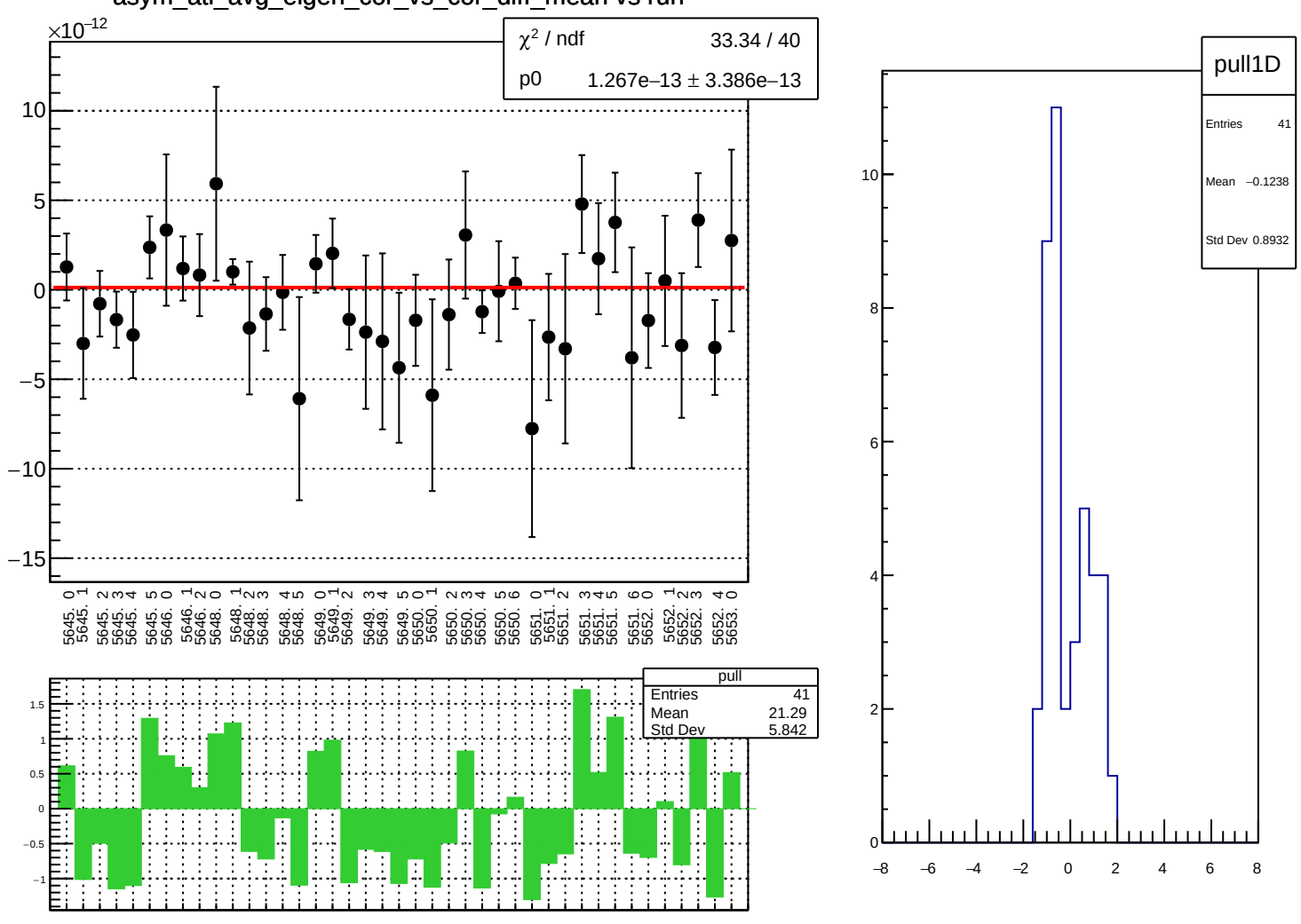

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.58 / 40
p0 0.02779 ± 0.2086
pull
Entries 41
Mean −48.83
Std Dev 0

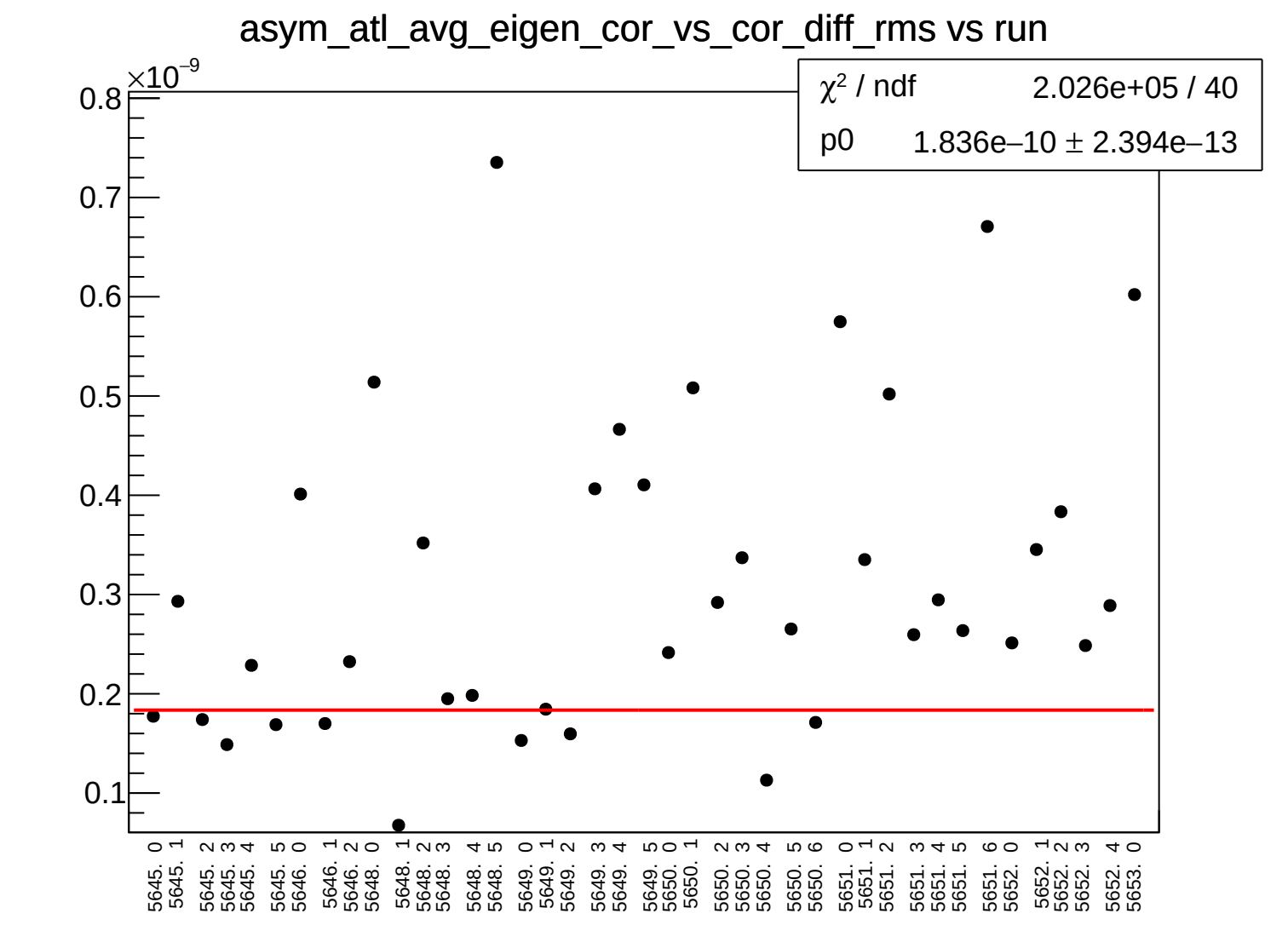

pull1D
Entries 41
Mean −0.007319
Std Dev 1.007

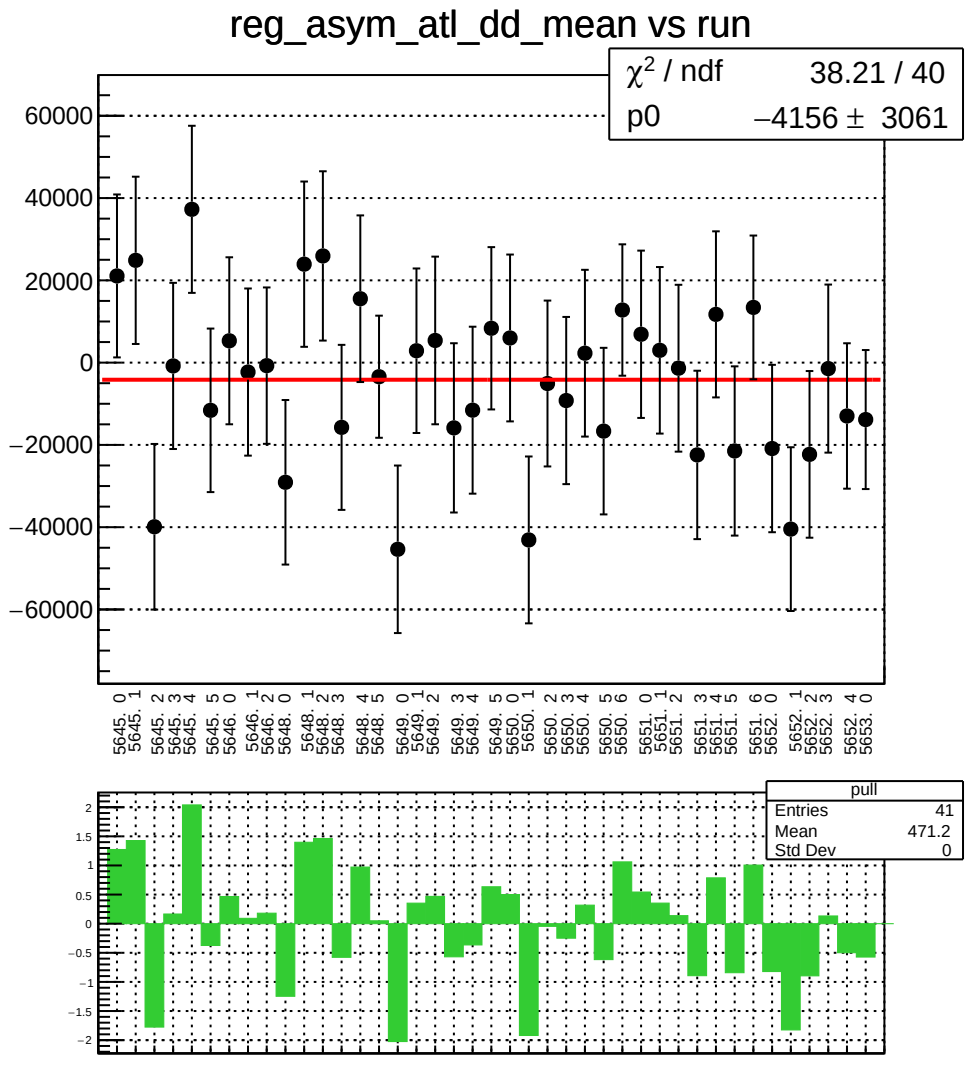

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.404e+04 / 40
p0 126.6 ± 0.1475
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

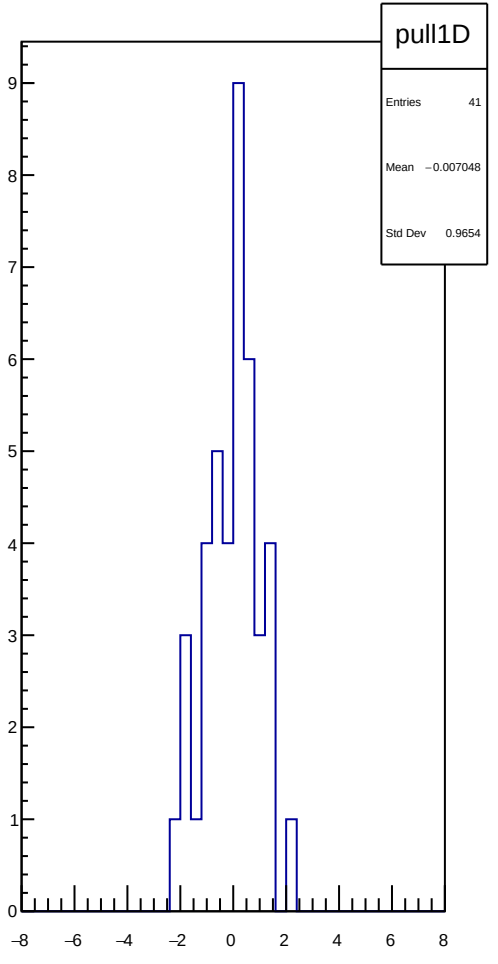

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.58 / 40
p0 0.02779 ± 0.2086
pull
Entries 41
Mean −48.83
Std Dev 0
pull1D
Entries 41
Mean −0.007319
Std Dev 1.007

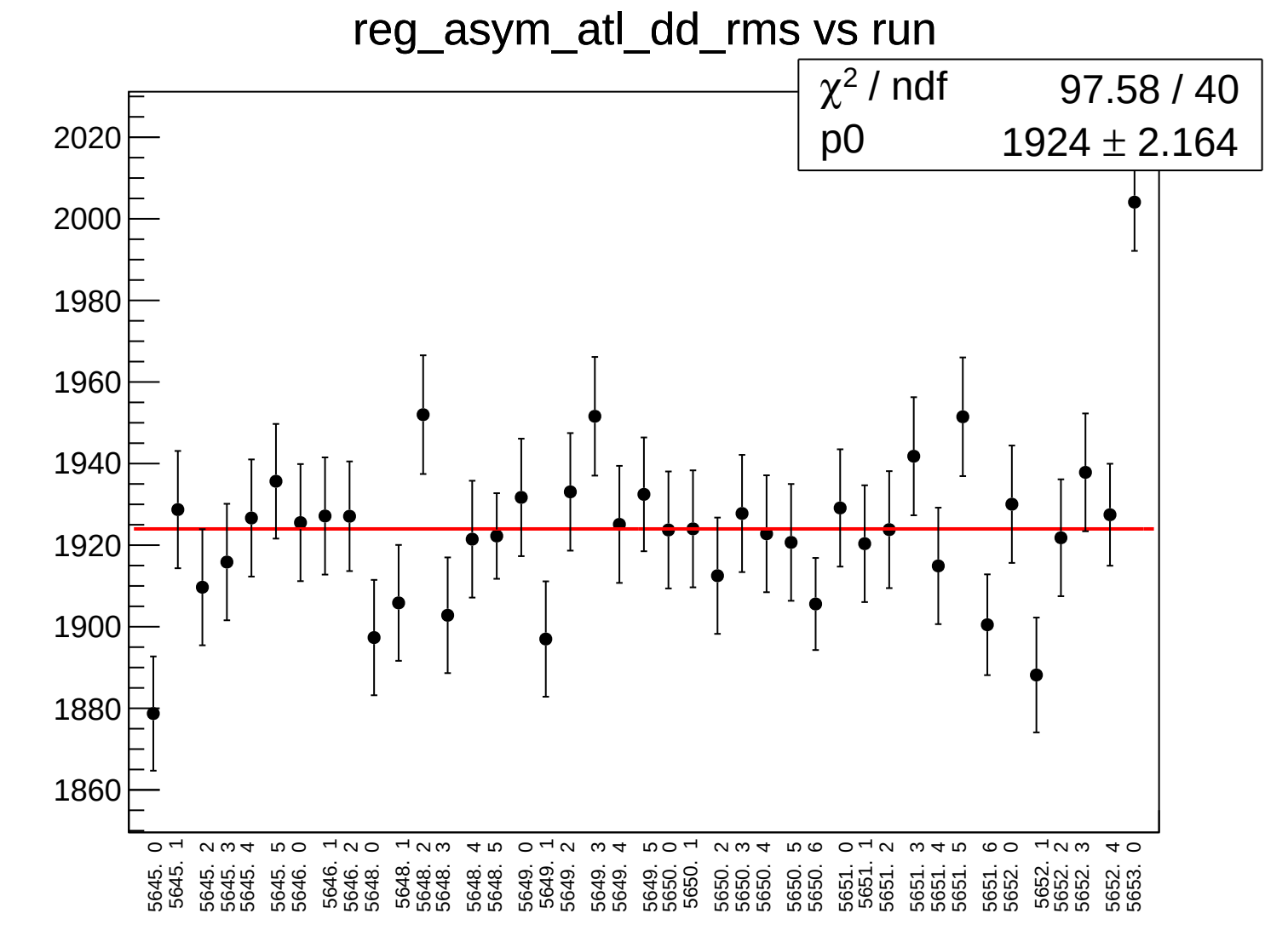

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.404e+04 / 40
p0 126.6 ± 0.1475
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

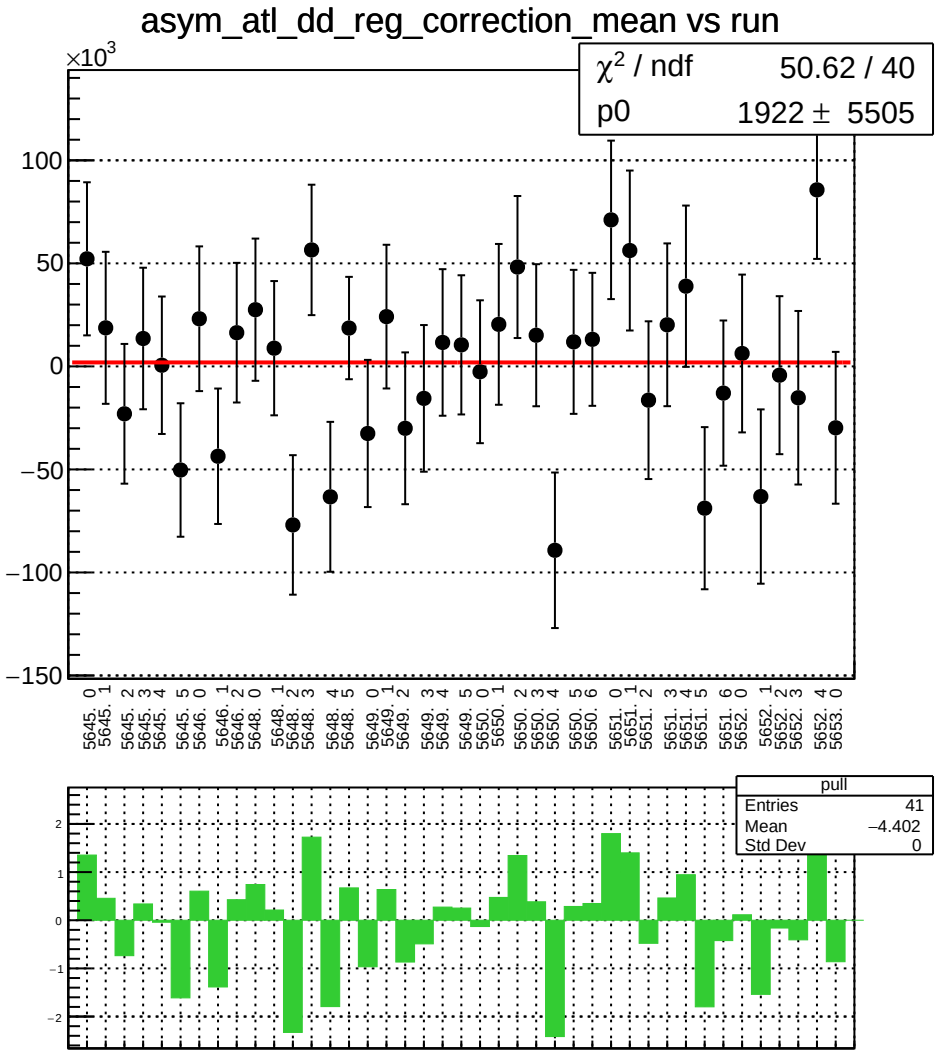

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.34 / 40
p0 1.267e−13 ± 3.386e−13
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.29
Std Dev 5.842
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.1238
Std Dev 0.8932
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

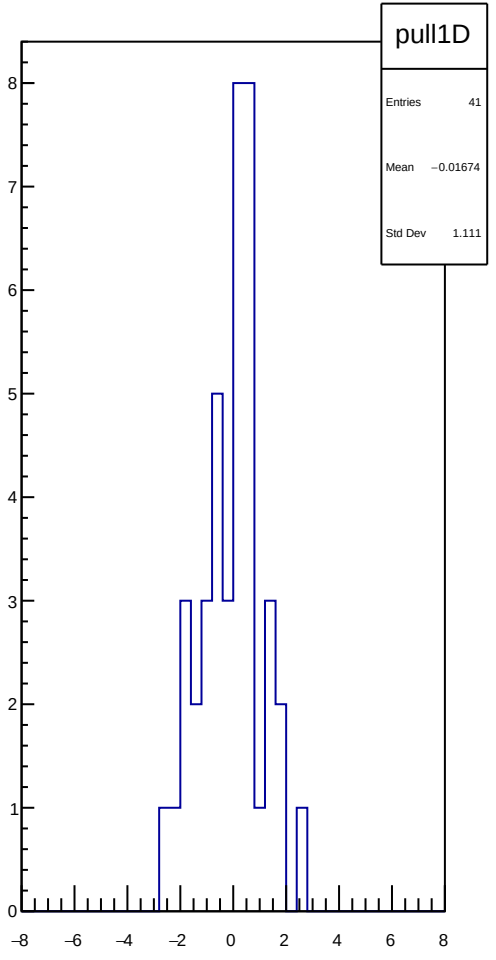

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.026e+05 / 40
p0 1.836e−10 ± 2.394e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

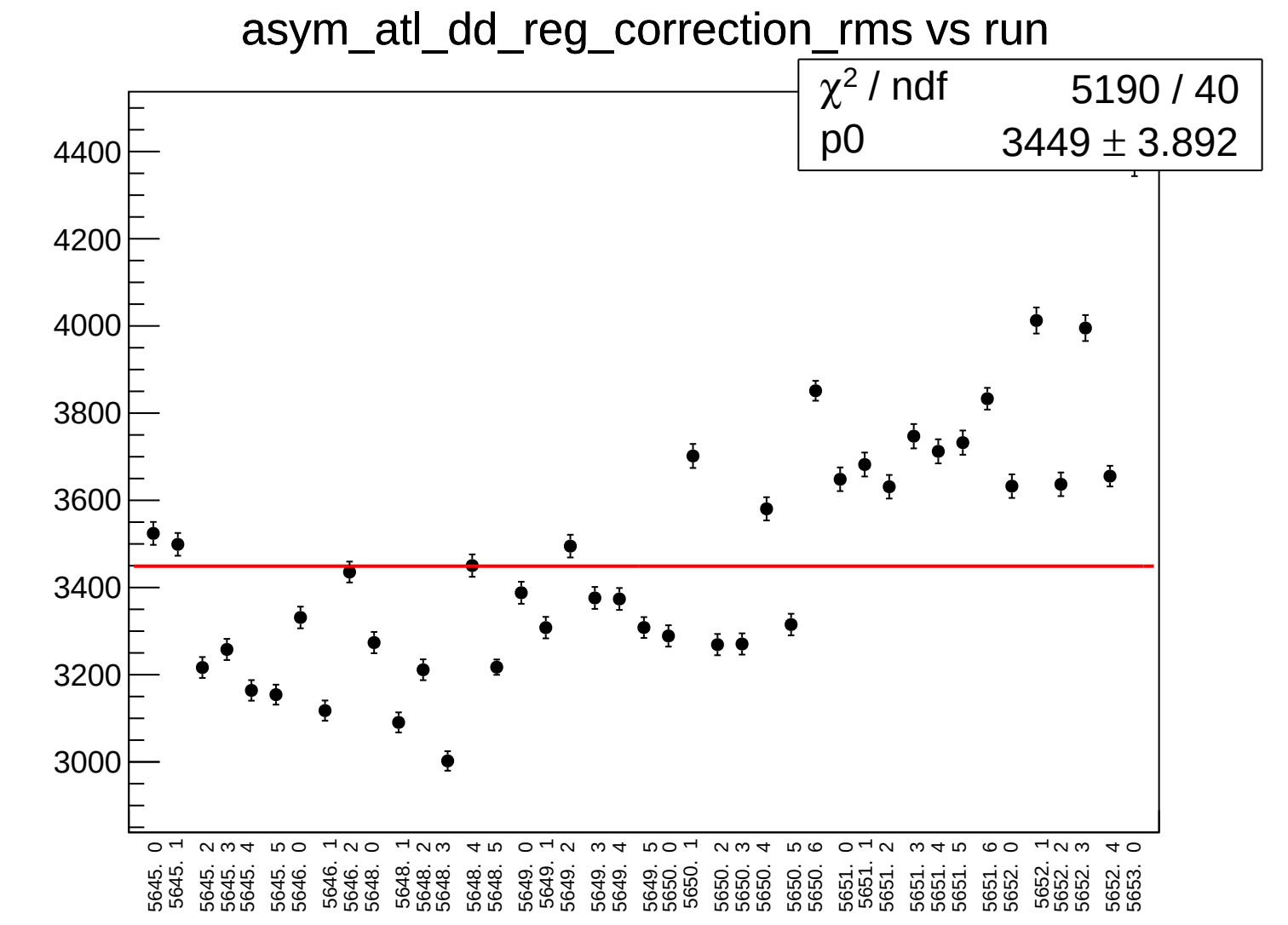

reg_asym_atl_dd_mean vs run
χ² / ndf 38.21 / 40
p0 −4156 ± 3061
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 471.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

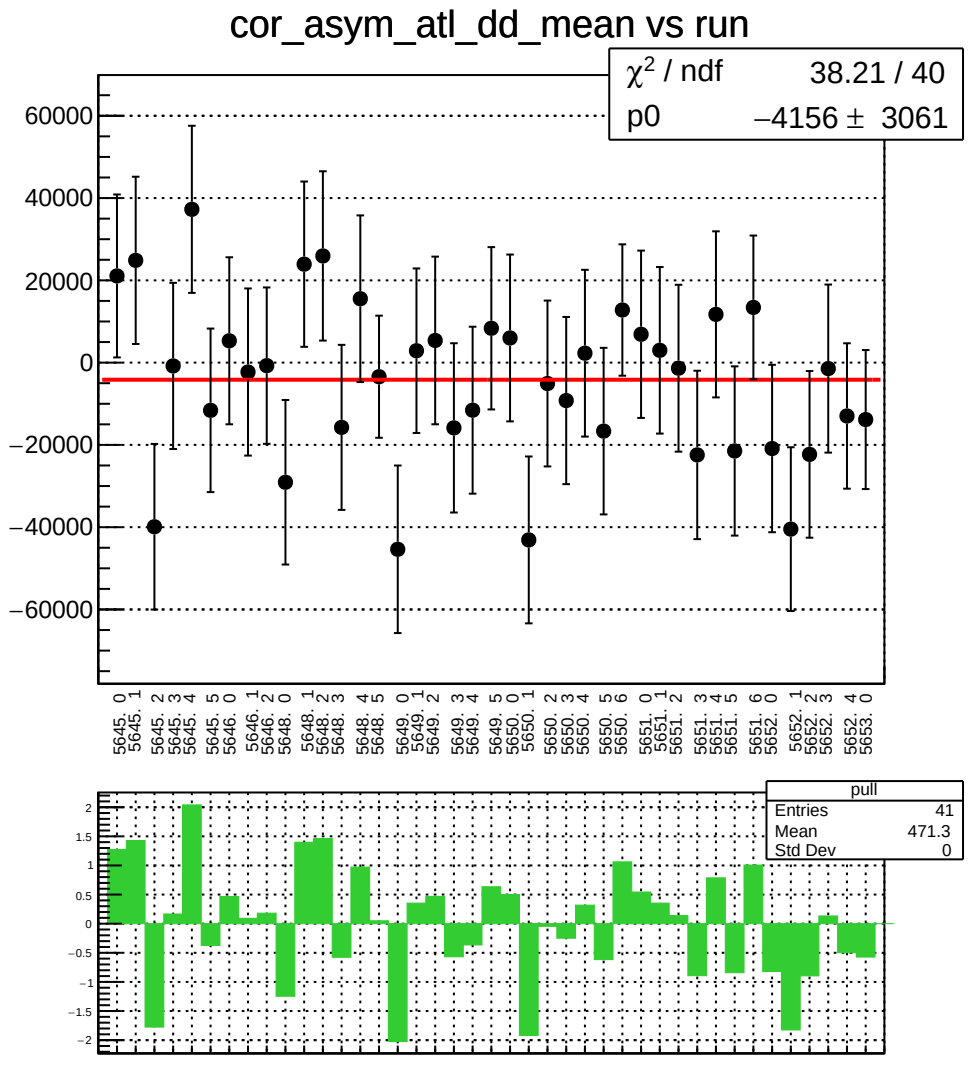

pull1D
Entries 41
Mean −0.007048
Std Dev 0.9654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

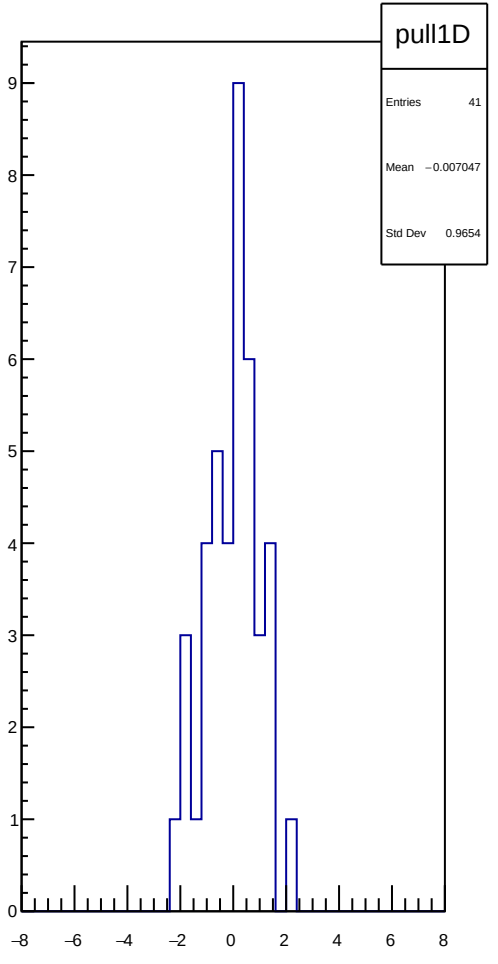

reg_asym_atl_dd_rms vs run
χ² / ndf 97.58 / 40
p0 1924 ± 2.164
2020
2000
1980
1960
1940
1920
1900
1880
1860
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

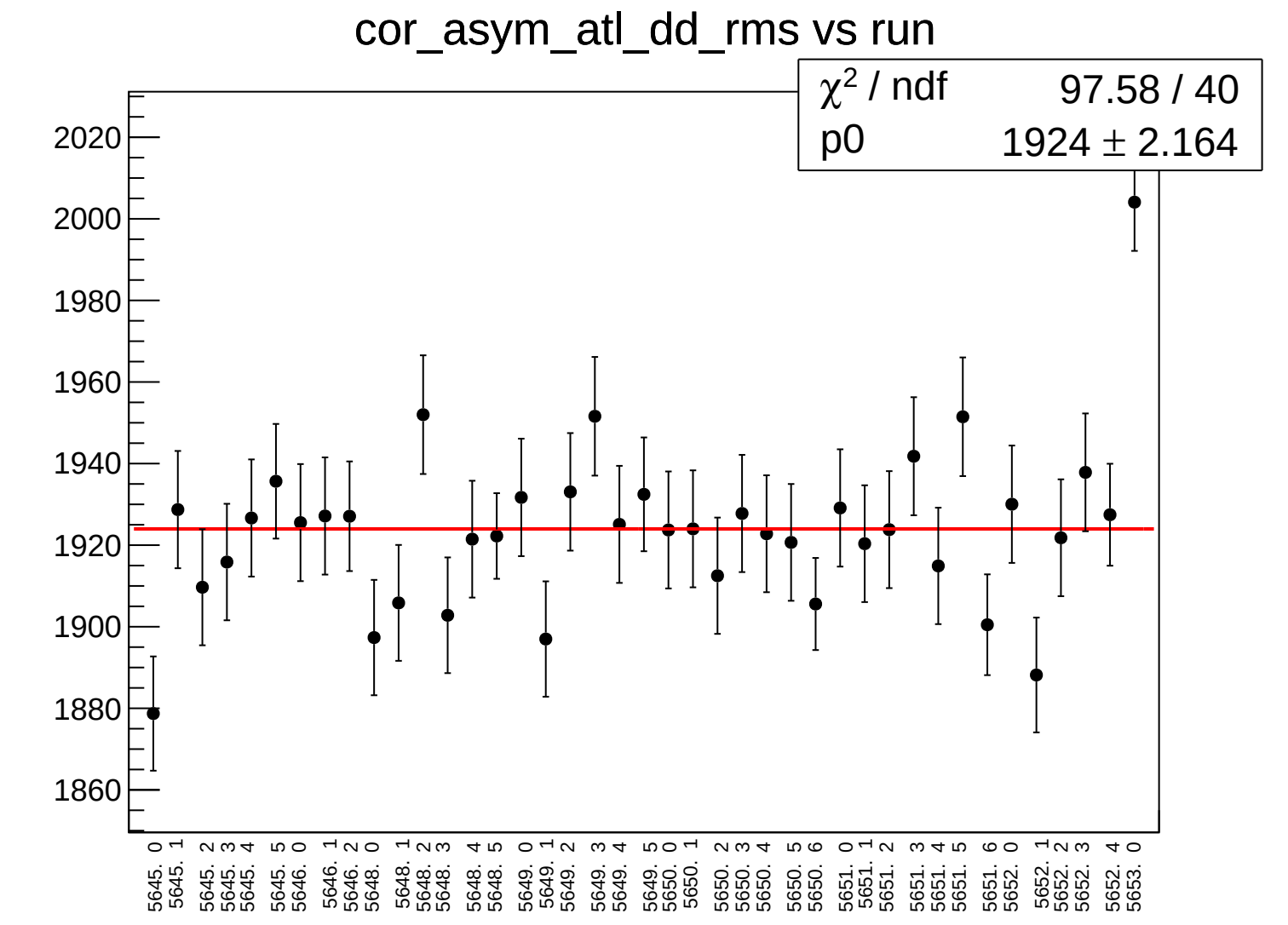

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 50.62 / 40
p0 1922 ± 5505
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −4.402
Std Dev 0
2
1
0
−1
−2

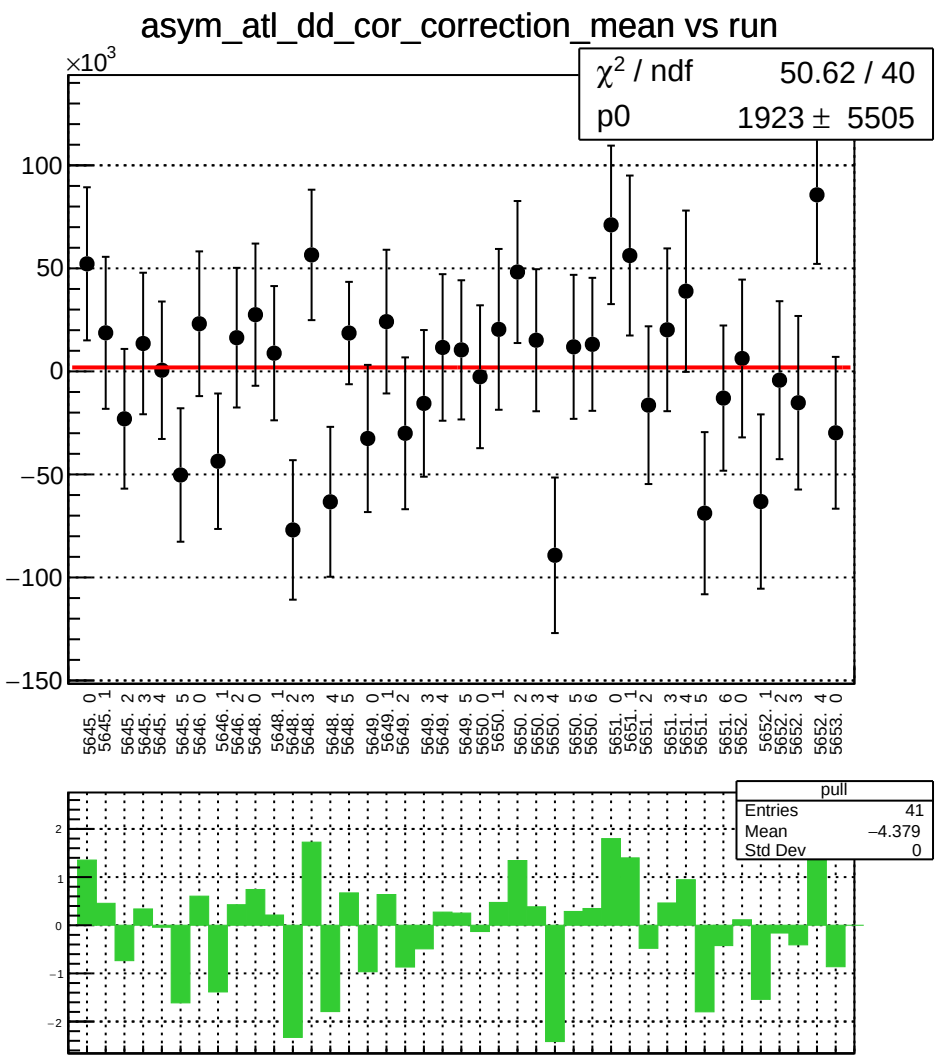

pull1D
Entries 41
Mean −0.01674
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

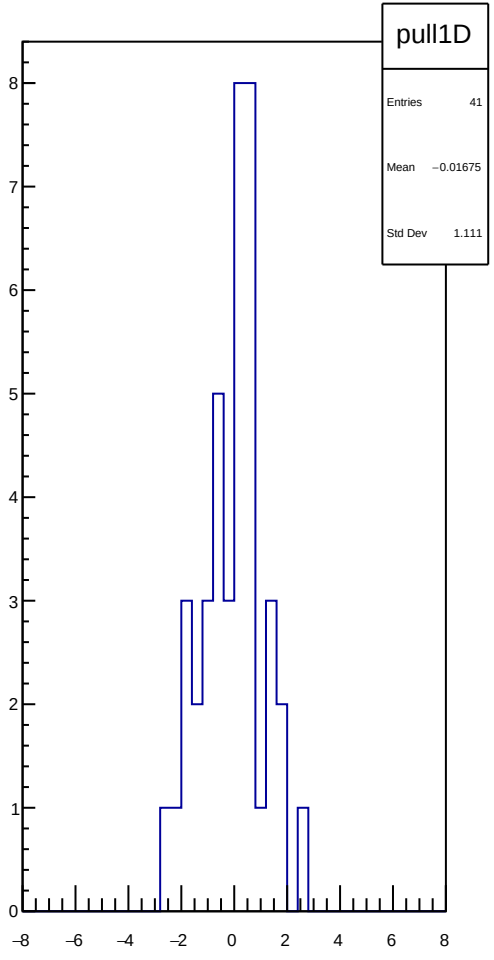

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5190 / 40
p0 3449 ± 3.892
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

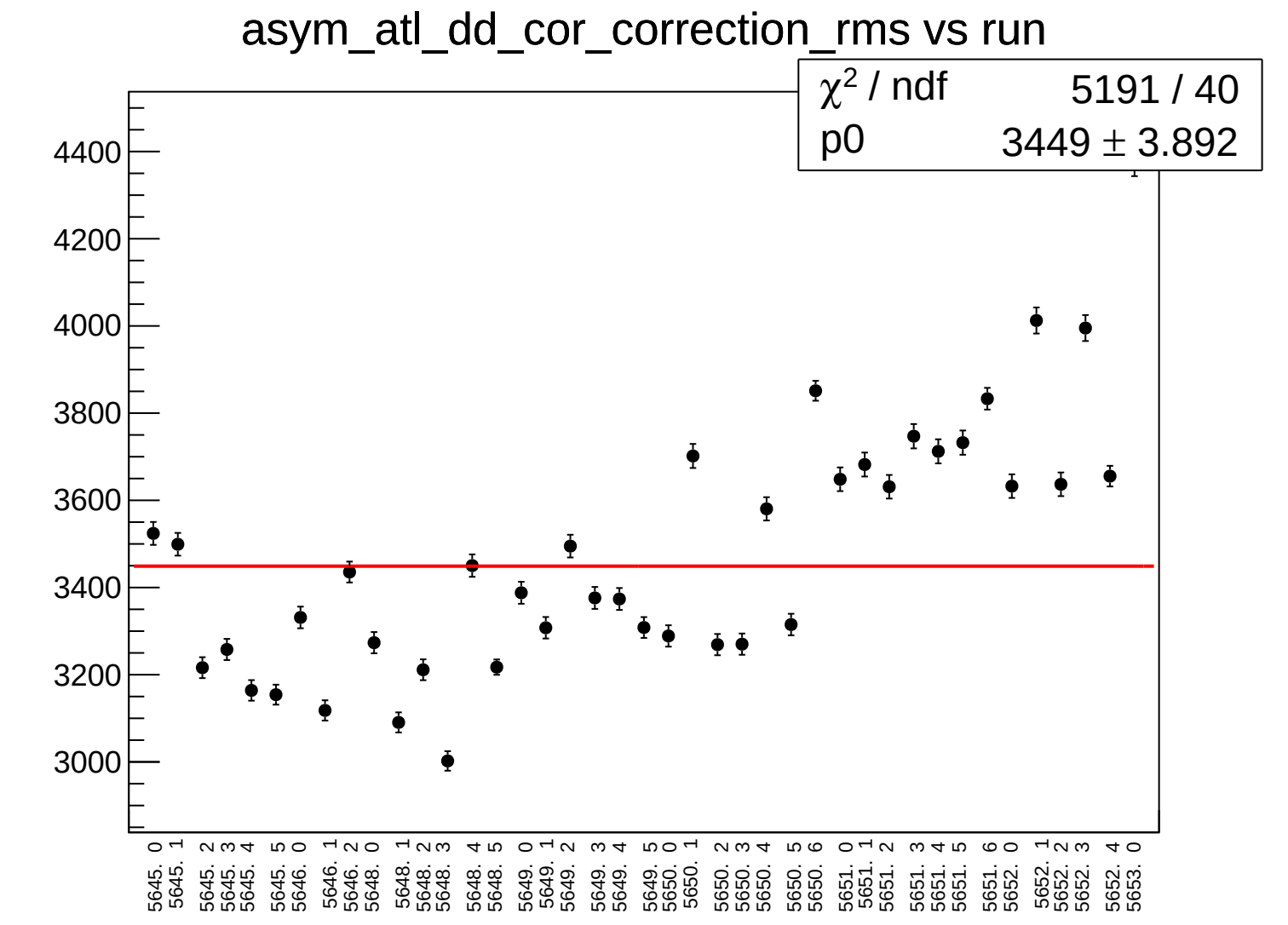

cor_asym_atl_dd_mean vs run
χ² / ndf 38.21 / 40
p0 −4156 ± 3061
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 471.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

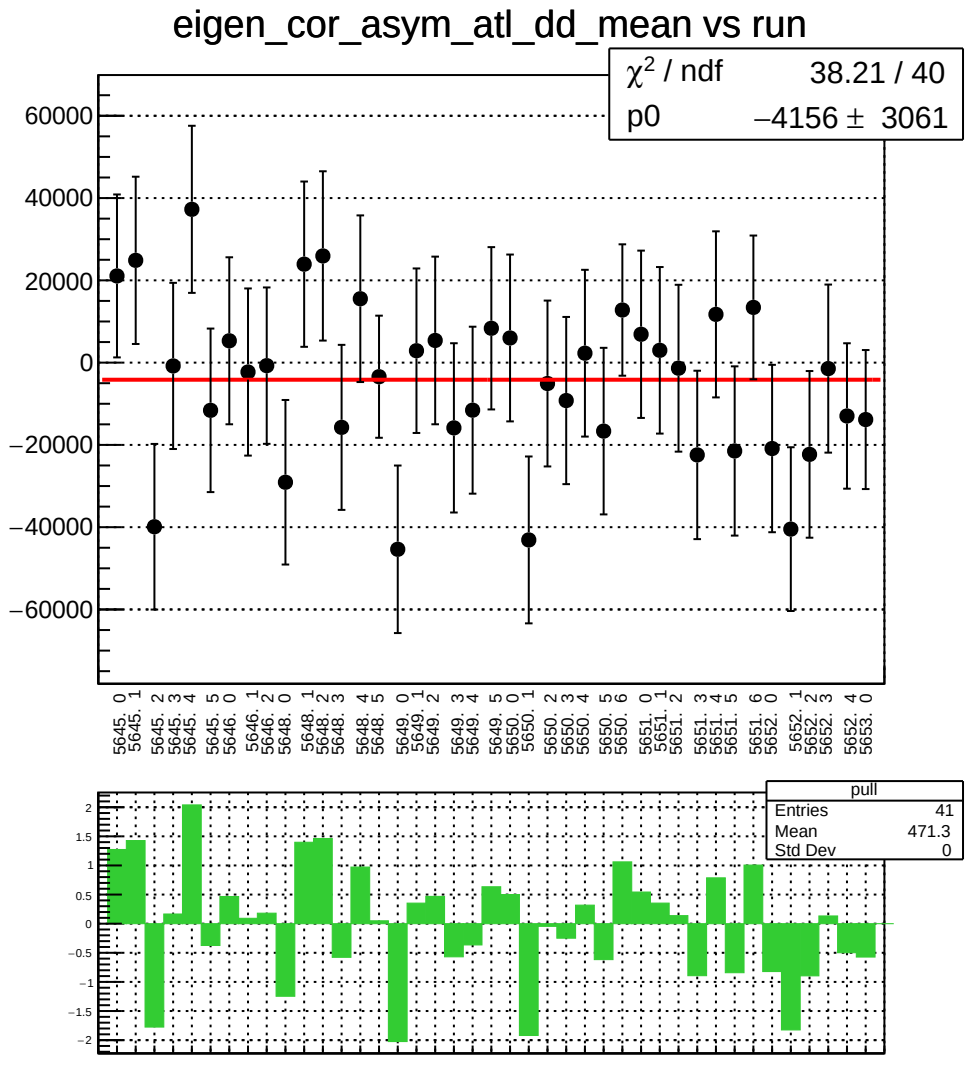

pull1D
Entries 41
Mean −0.007047
Std Dev 0.9654
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

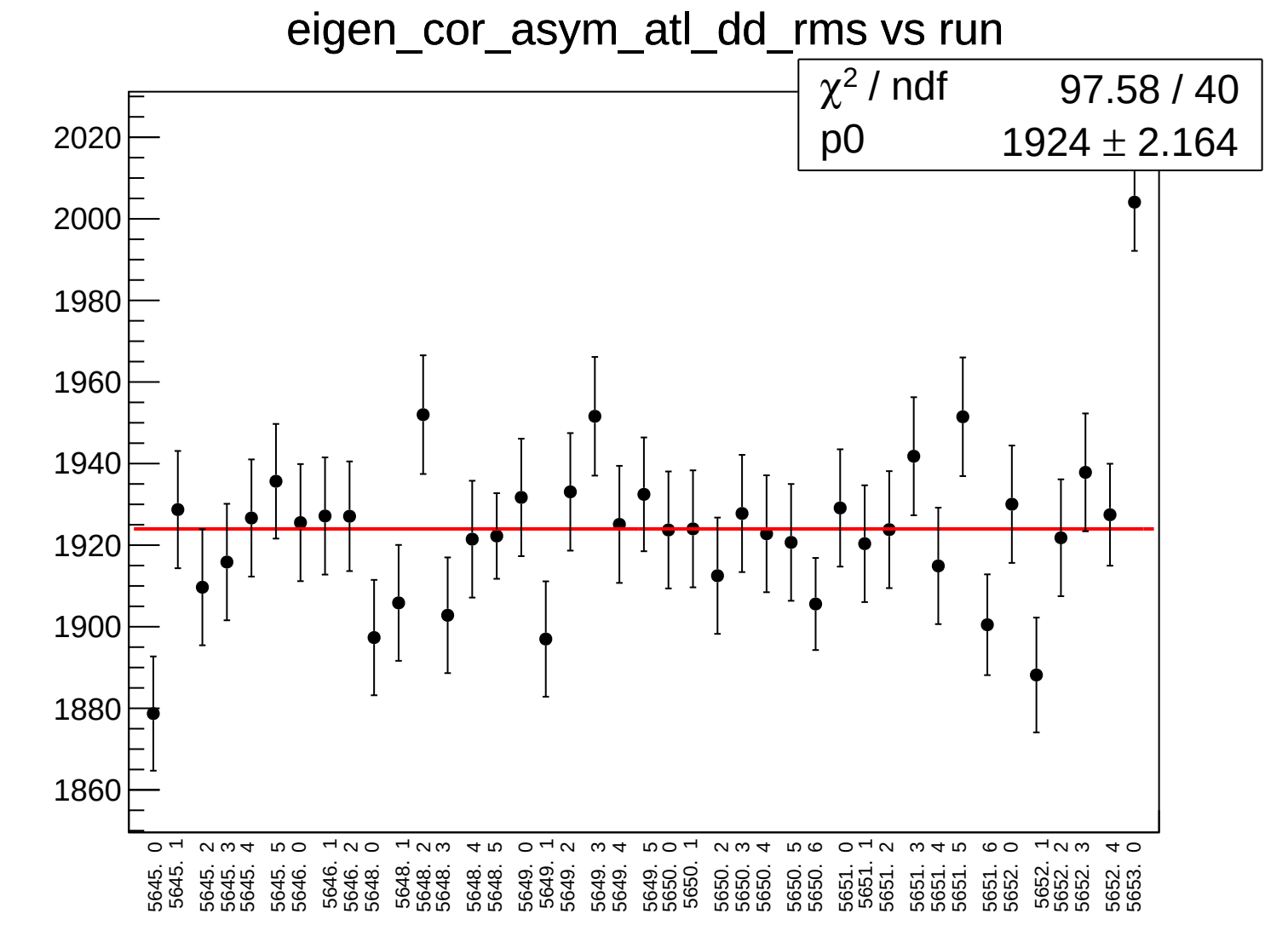

cor_asym_atl_dd_rms vs run
χ² / ndf 97.58 / 40
p0 1924 ± 2.164
2020
2000
1980
1960
1940
1920
1900
1880
1860
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

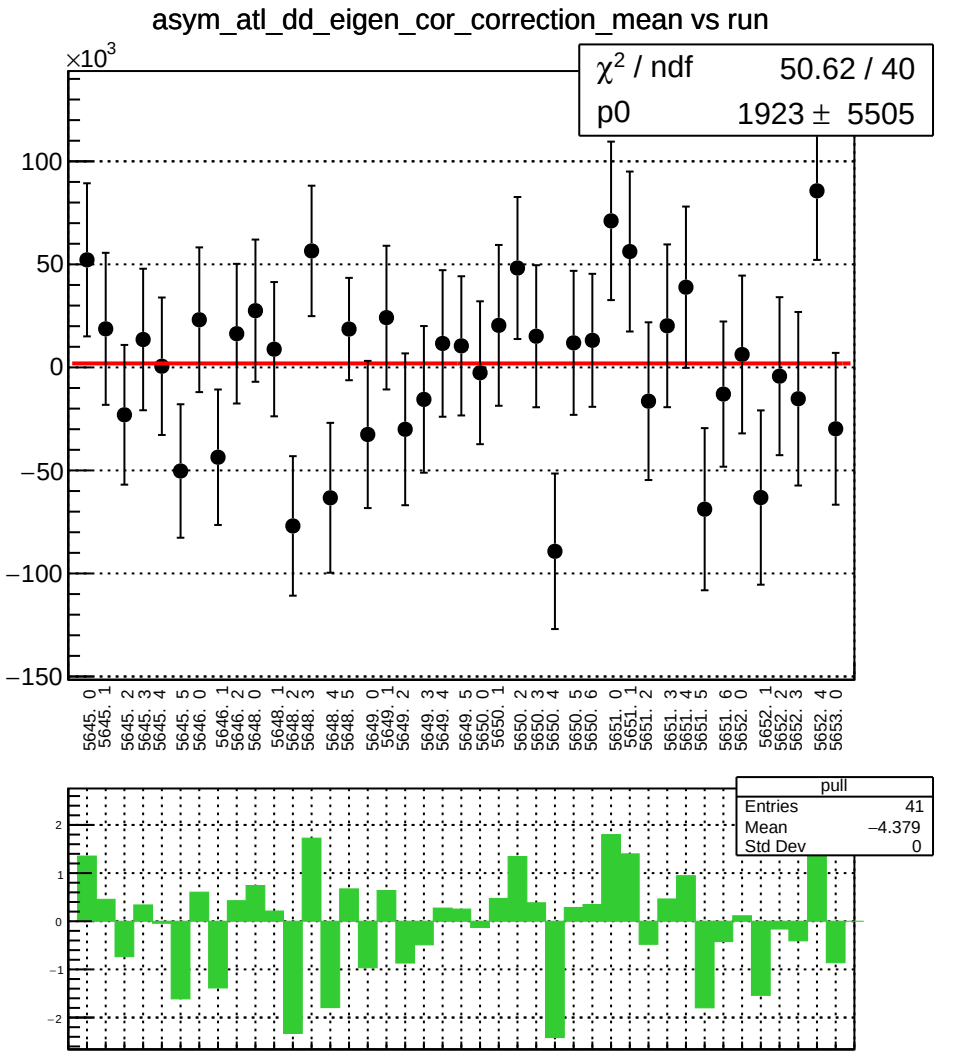

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.62 / 40
p0 1923 ± 5505
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −4.379
Std Dev 0
2
1
0
−1
−2

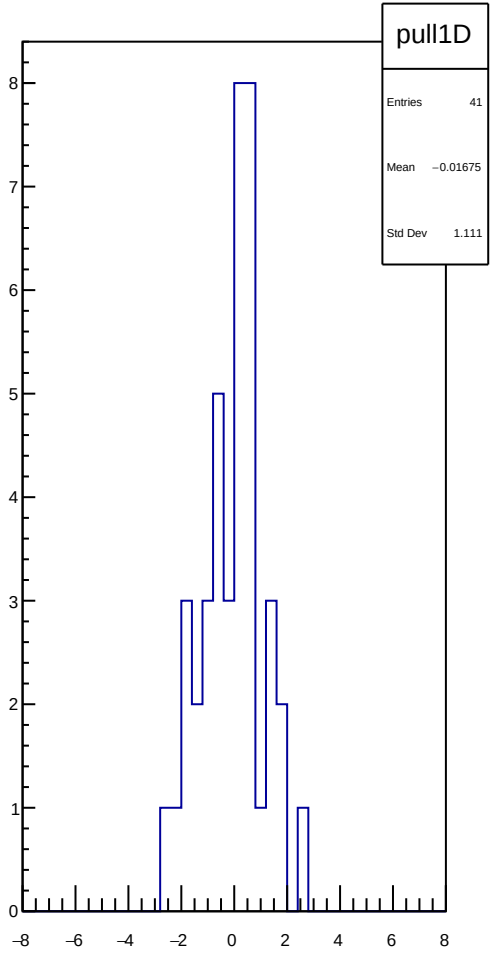

pull1D
Entries 41
Mean −0.01675
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

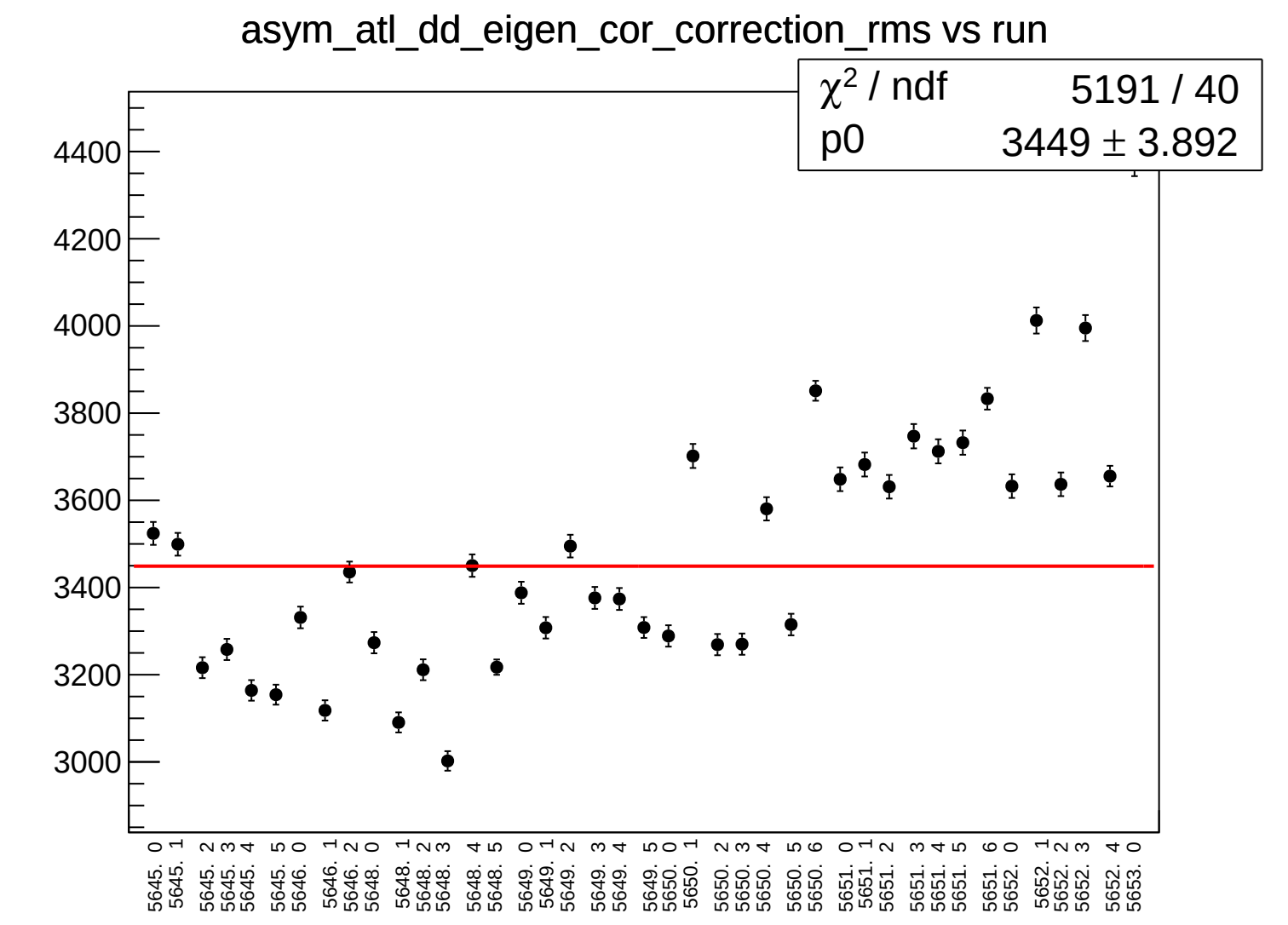

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5191 / 40
p0 3449 ± 3.892
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

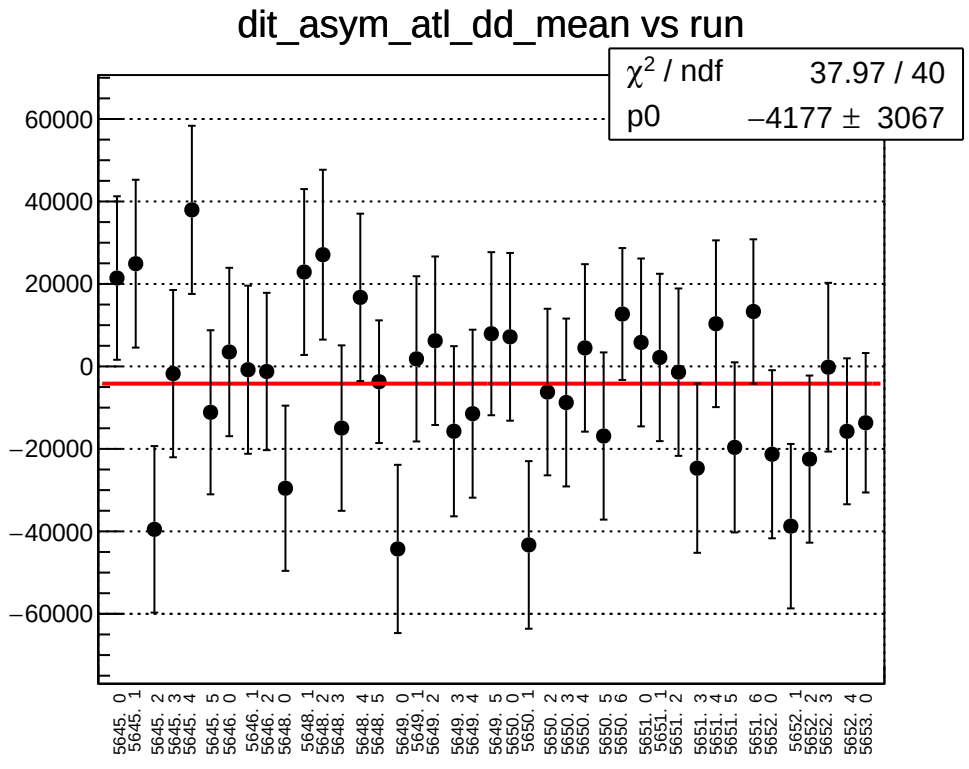

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 38.21 / 40
p0 −4156 ± 3061
pull
Entries 41
Mean 471.3
Std Dev 0
pull1D
Entries 41
Mean −0.007047
Std Dev 0.9654

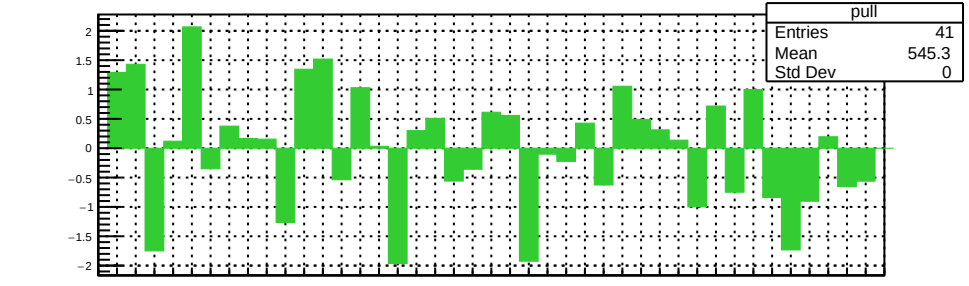

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 97.58 / 40
p0 1924 ± 2.164
2020
2000
1980
1960
1940
1920
1900
1880
1860
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

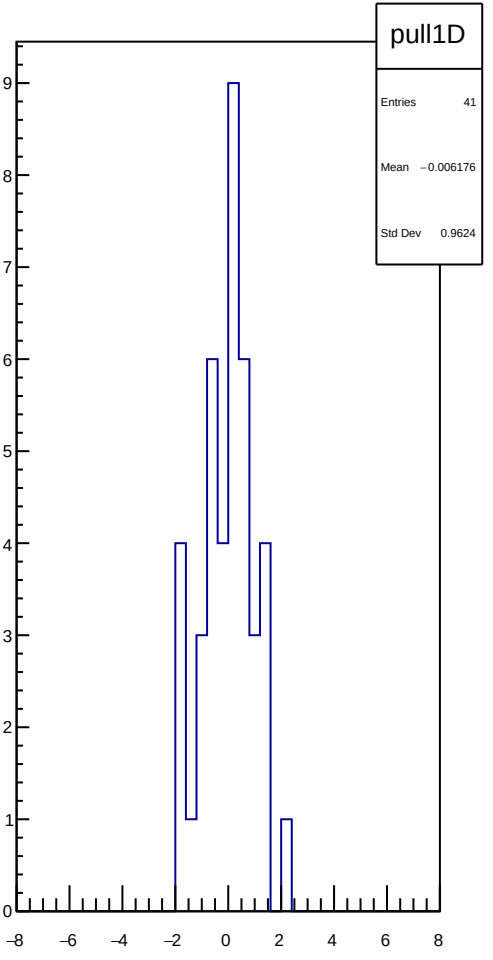

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.62 / 40
p0 1923 ± 5505
×10³
pull
Entries 41
Mean −4.379
Std Dev 0

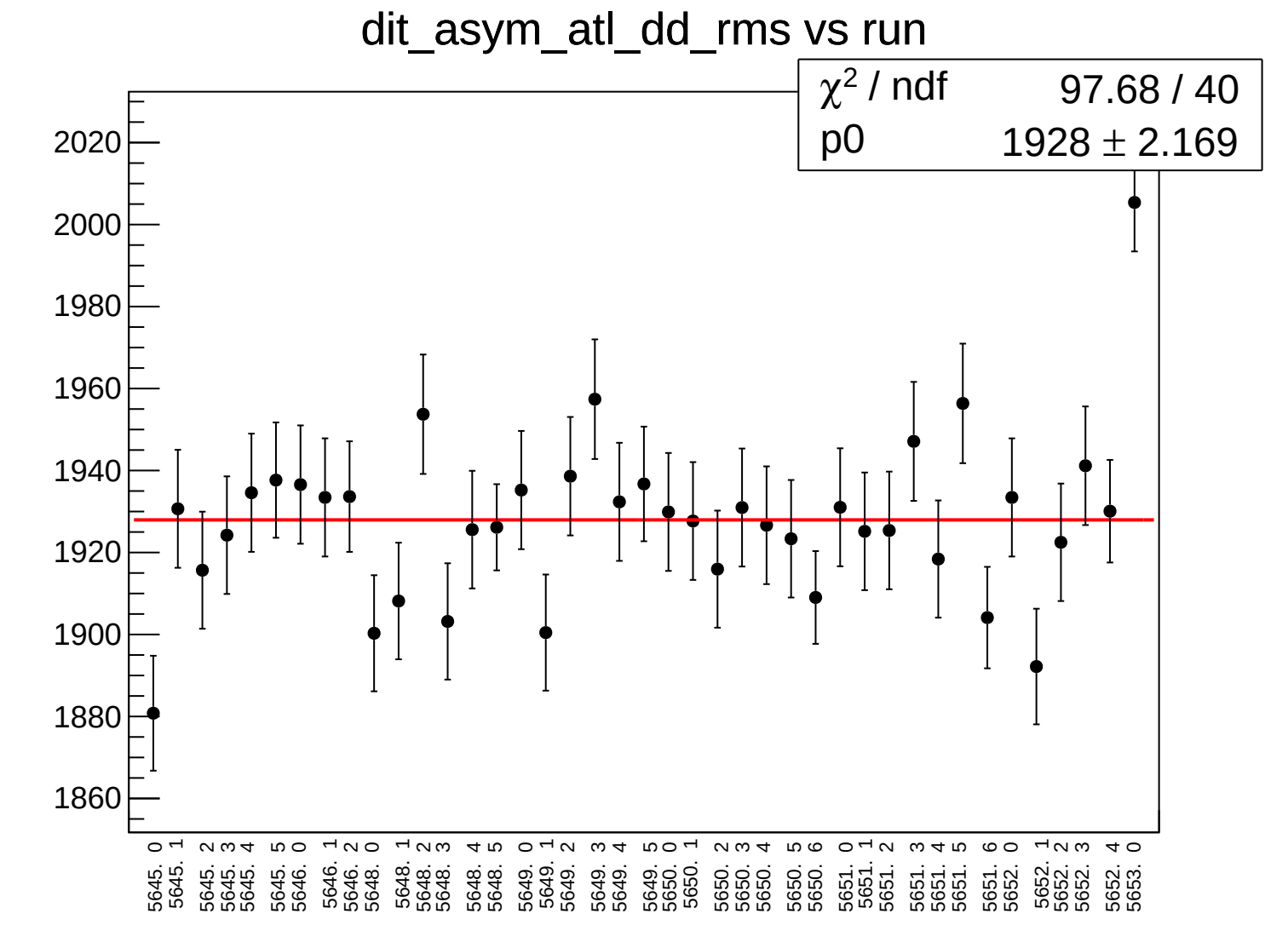

pull1D
Entries 41
Mean −0.01675
Std Dev 1.111

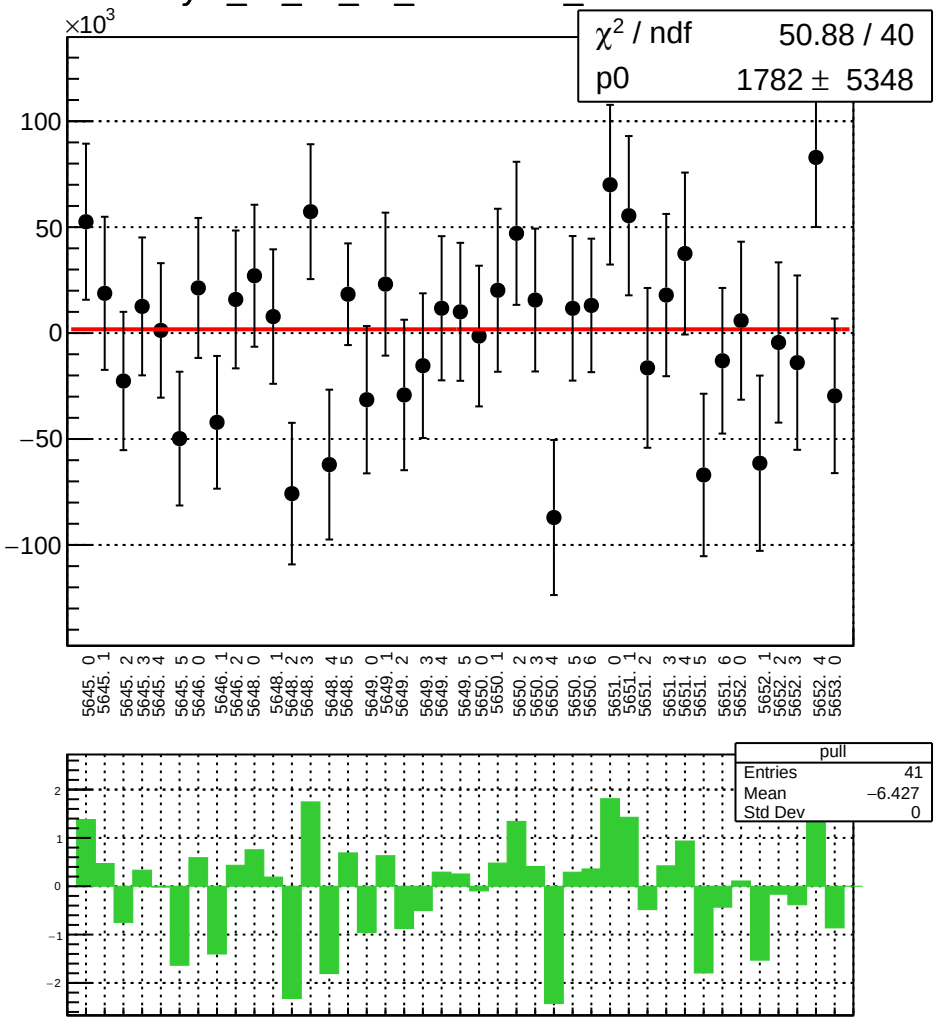

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 5191 / 40
p0 3449 ± 3.892
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

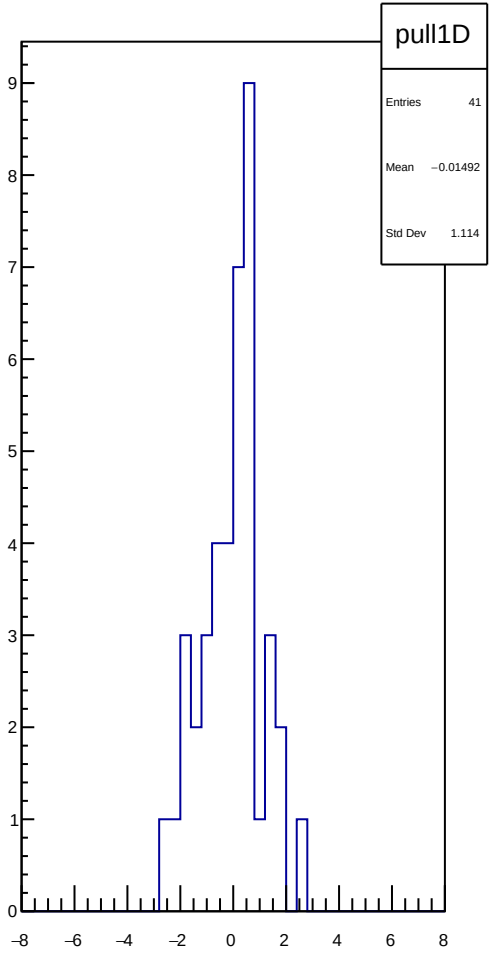

dit_asym_atl_dd_mean vs run
χ² / ndf 37.97 / 40
p0 −4177 ± 3067
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

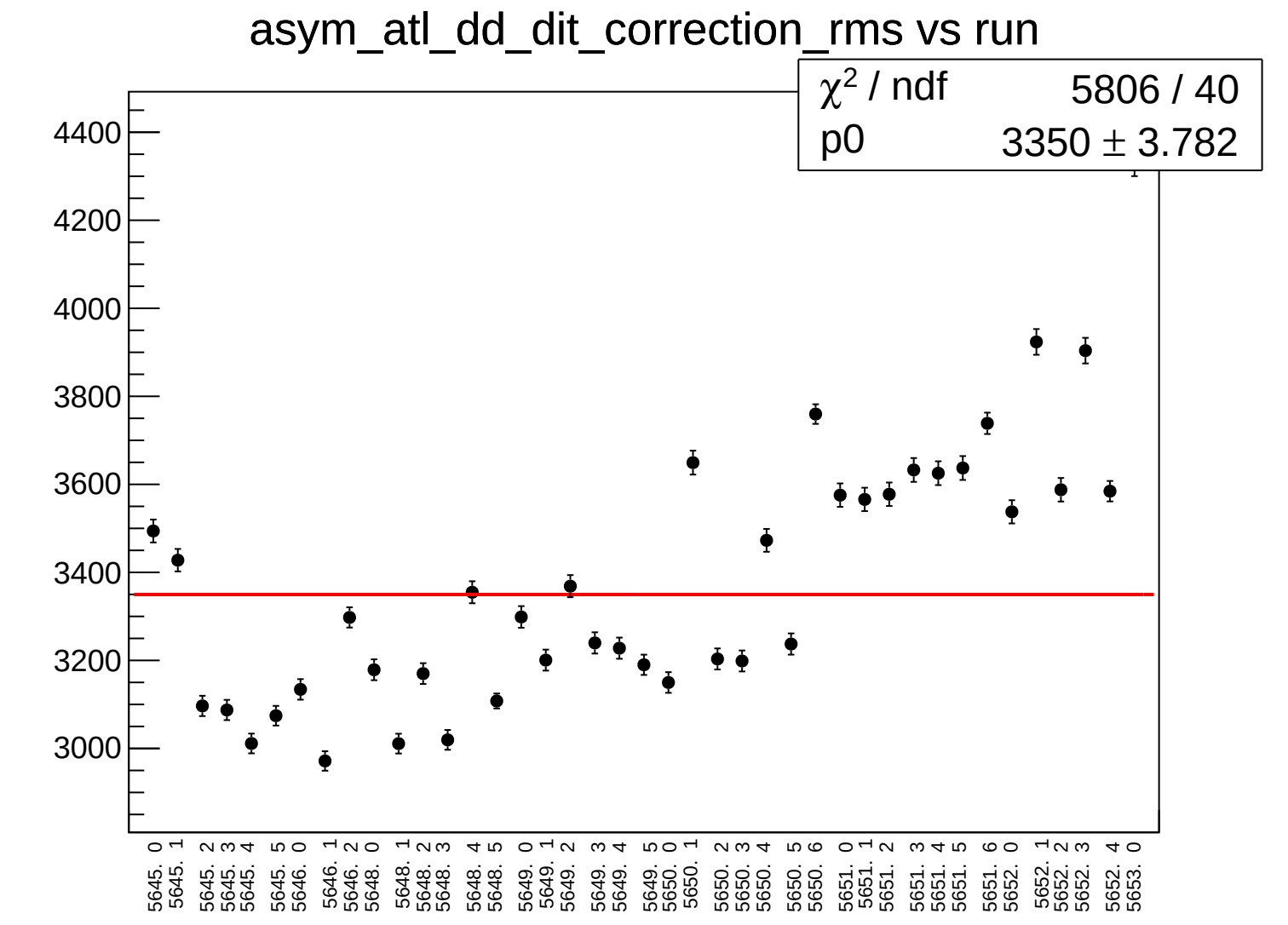

pull
Entries 41
Mean 545.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

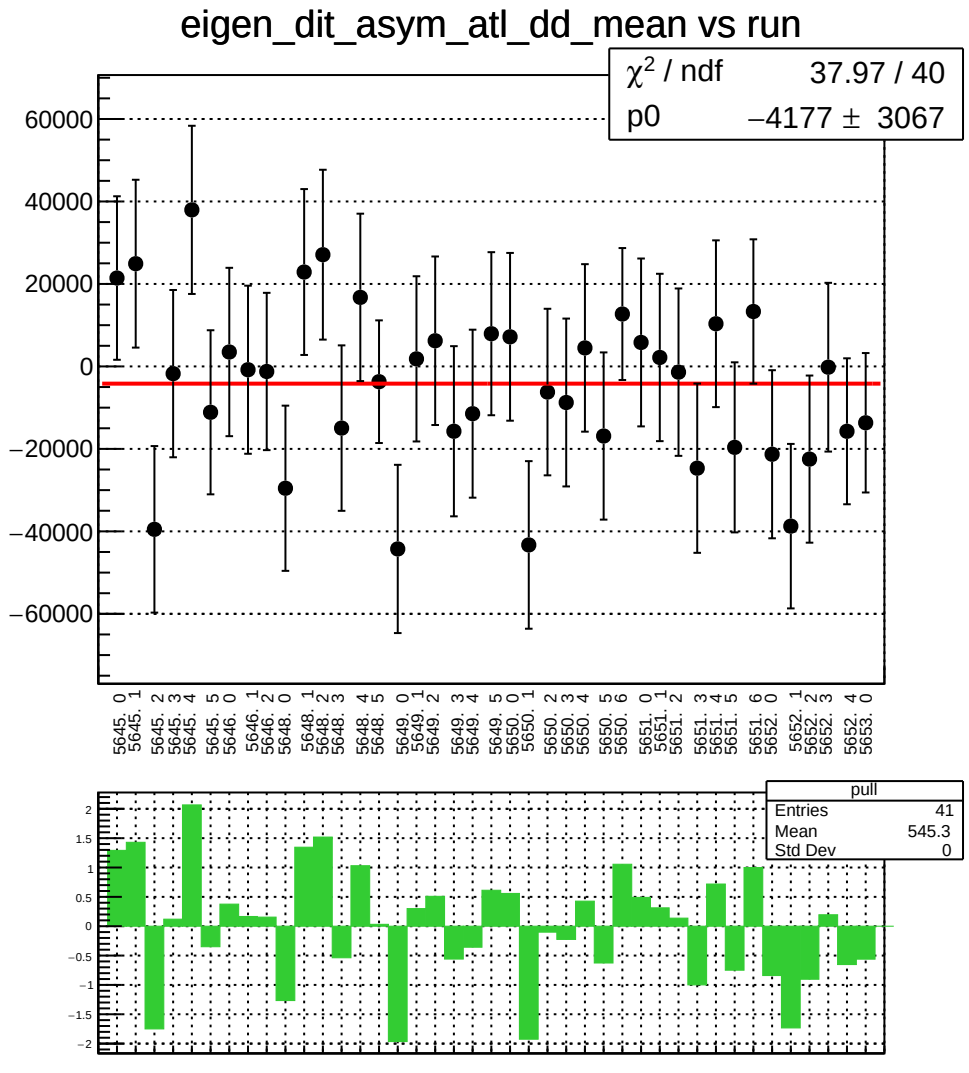

pull1D
Entries 41
Mean −0.006176
Std Dev 0.9624
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

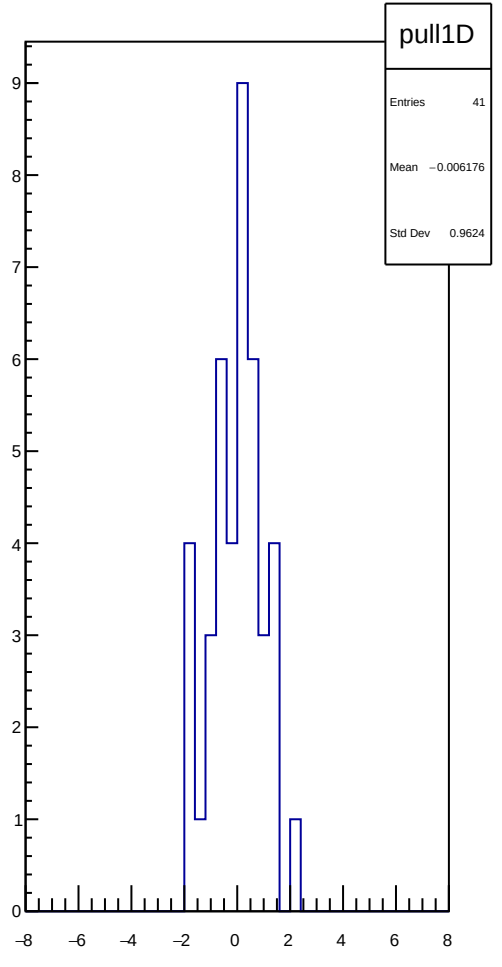

dit_asym_atl_dd_rms vs run
χ² / ndf 97.68 / 40
p0 1928 ± 2.169
2020
2000
1980
1960
1940
1920
1900
1880
1860
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

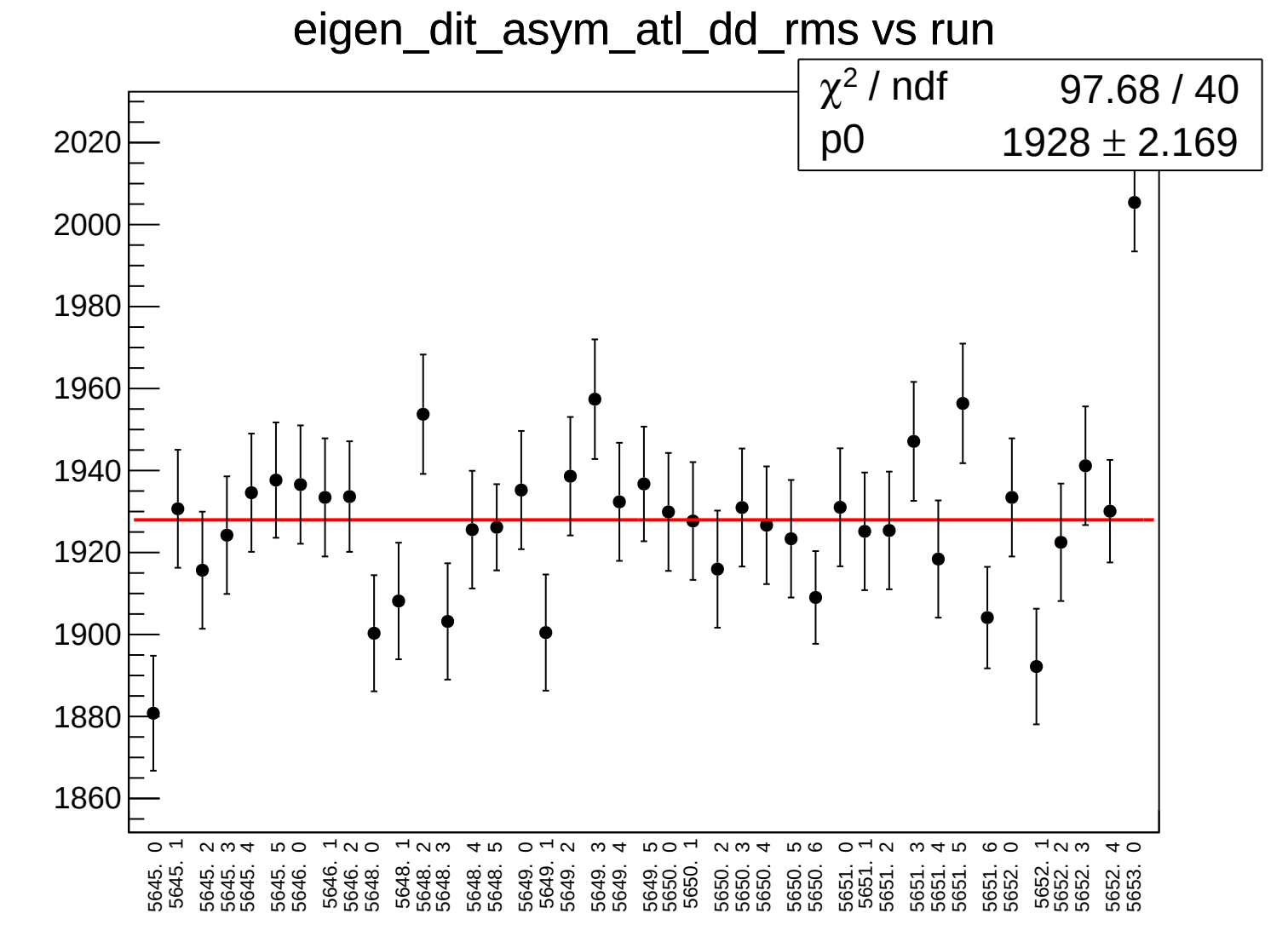

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 50.88 / 40
p0 1782 ± 5348
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6.427
Std Dev 0
2
1
0
−1
−2

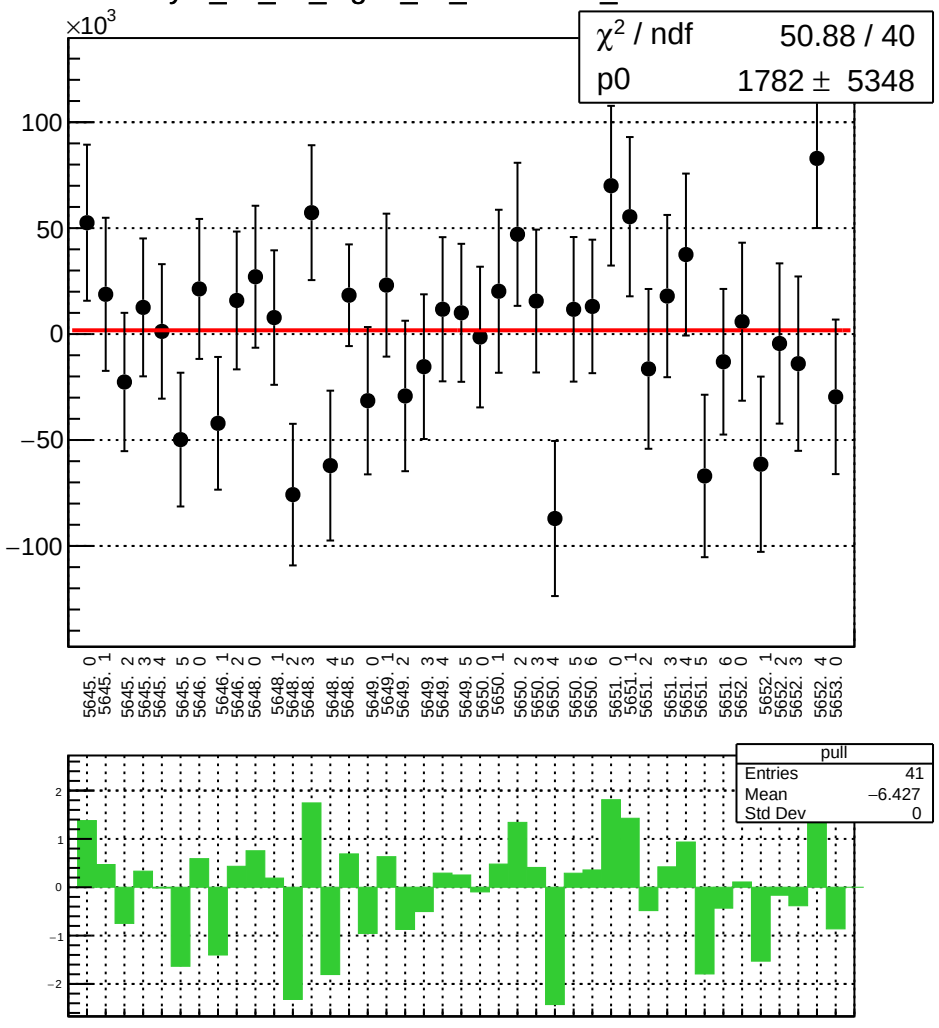

pull1D
Entries 41
Mean −0.01492
Std Dev 1.114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

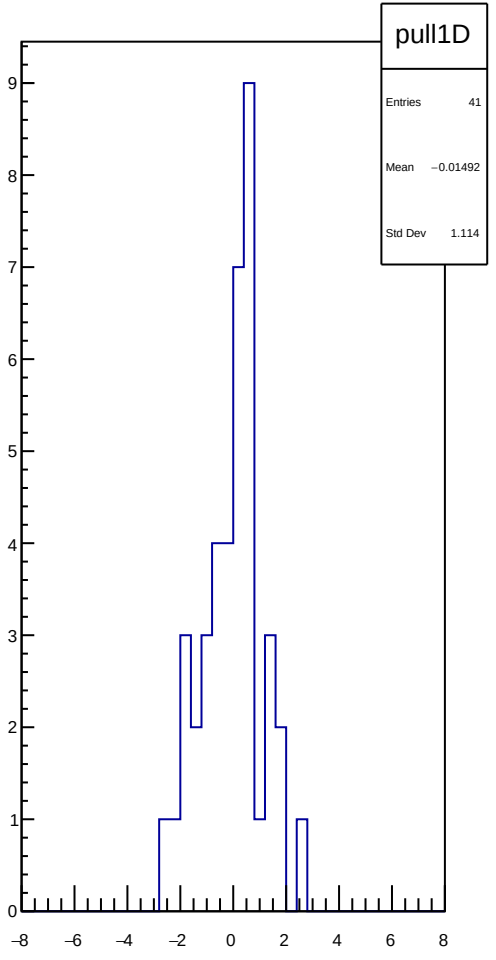

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5806 / 40
p0 3350 ± 3.782
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

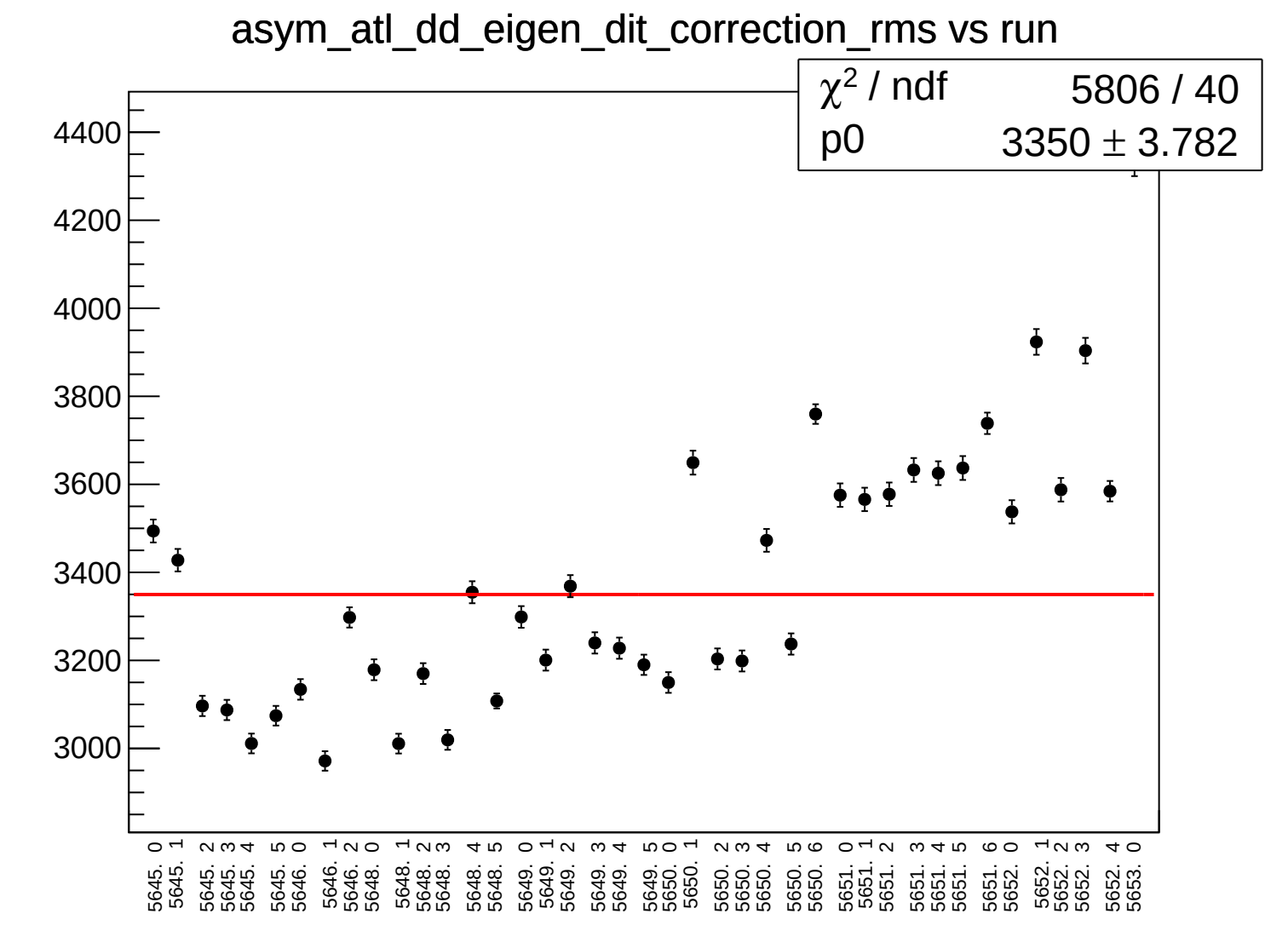

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 37.97 / 40
p0 −4177 ± 3067
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 545.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

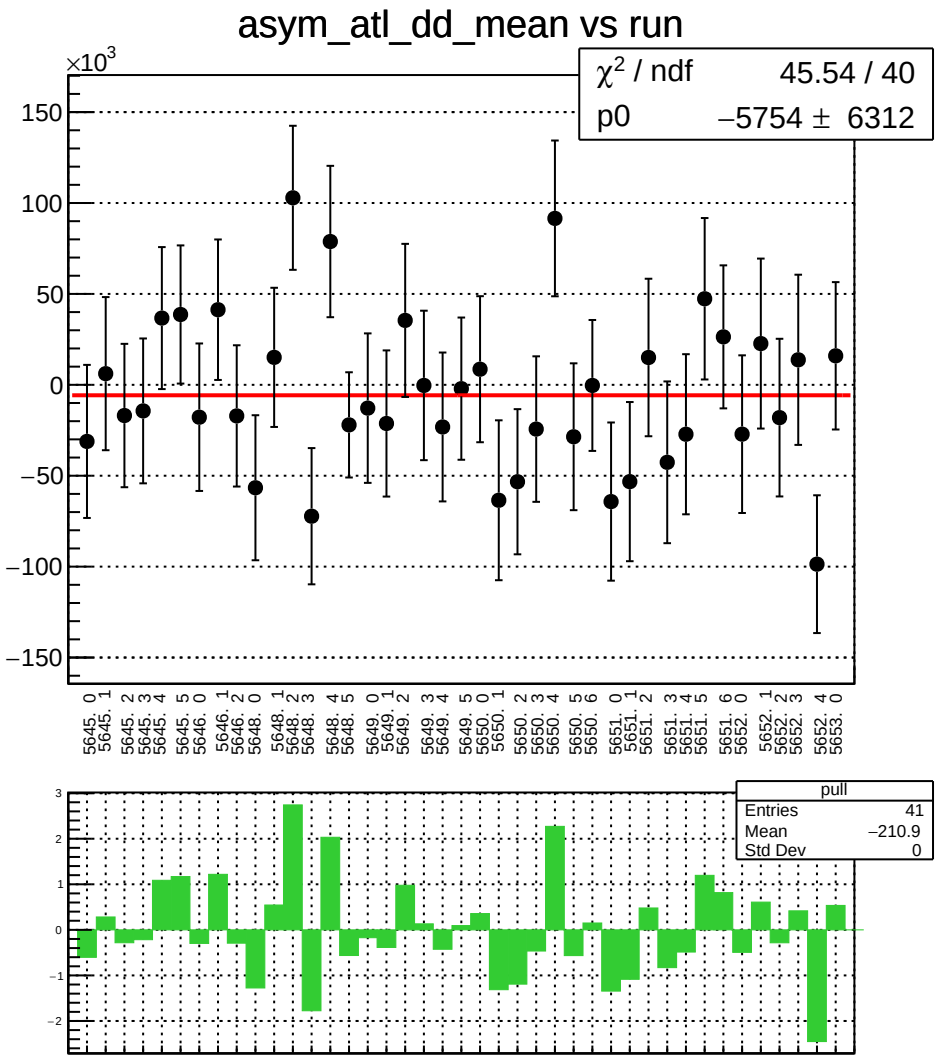

pull1D
Entries 41
Mean −0.006176
Std Dev 0.9624
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

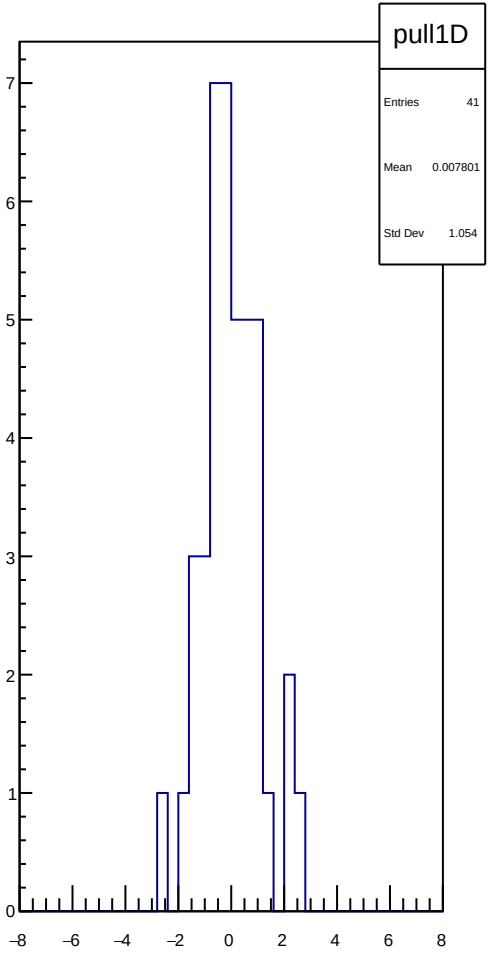

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 97.68 / 40
p0 1928 ± 2.169
2020
2000
1980
1960
1940
1920
1900
1880
1860
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

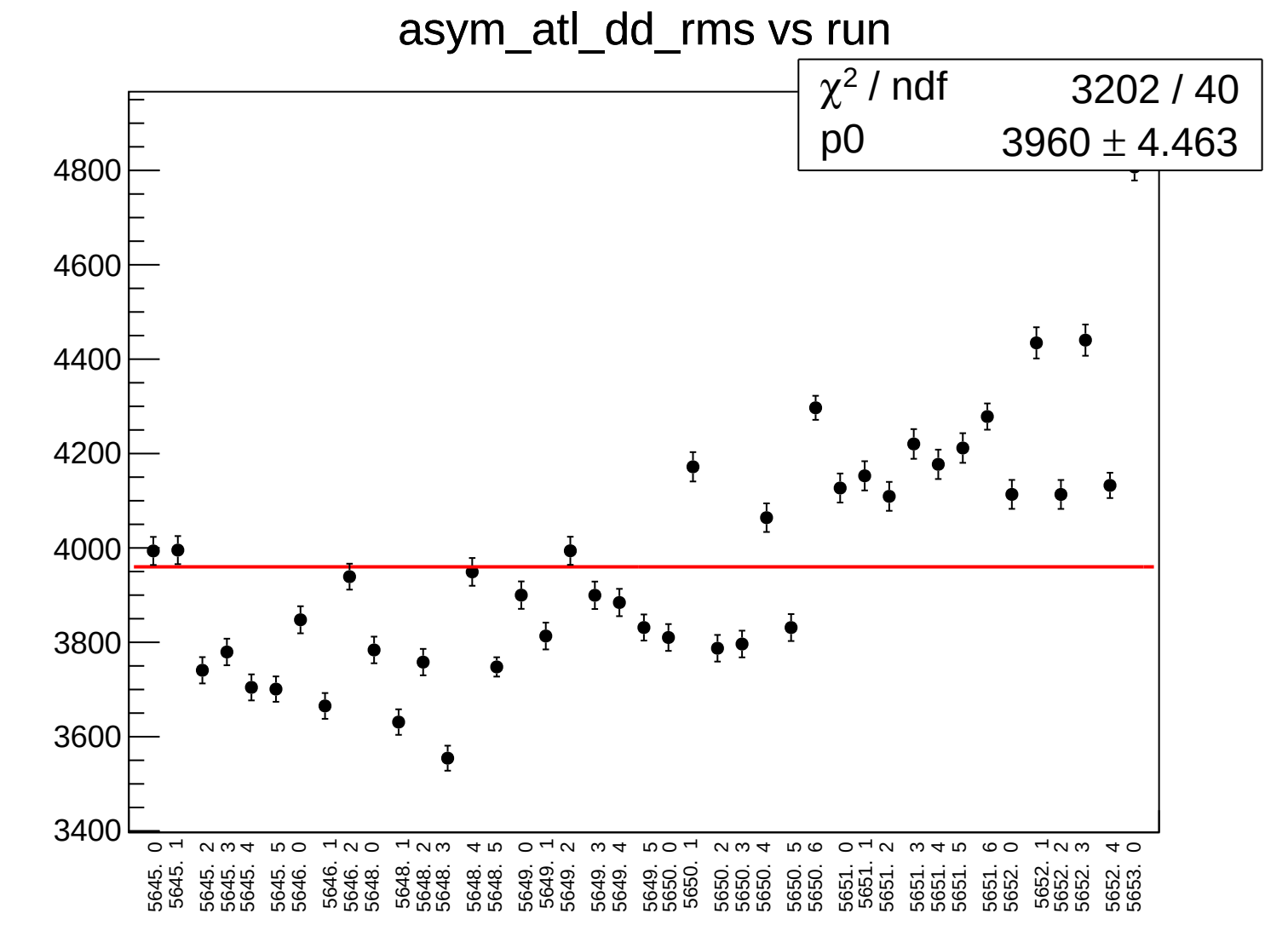

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.88 / 40
p0 1782 ± 5348
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6.427
Std Dev 0
2
1
0
−1
−2

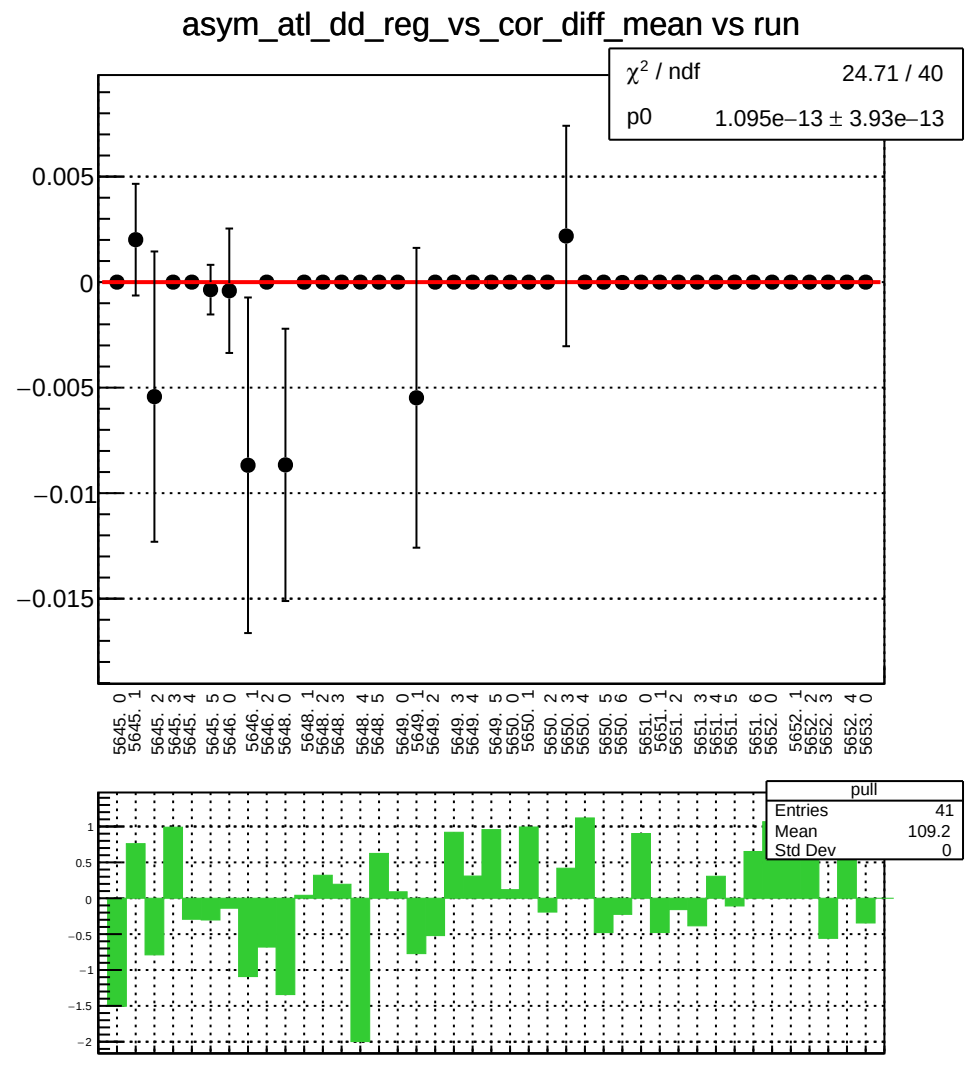

pull1D
Entries 41
Mean −0.01492
Std Dev 1.114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

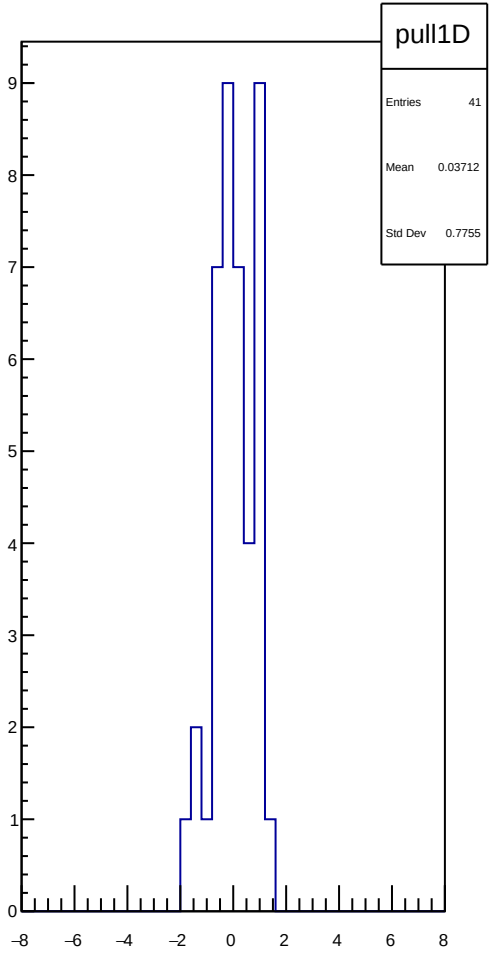

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5806 / 40
p0 3350 ± 3.782
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

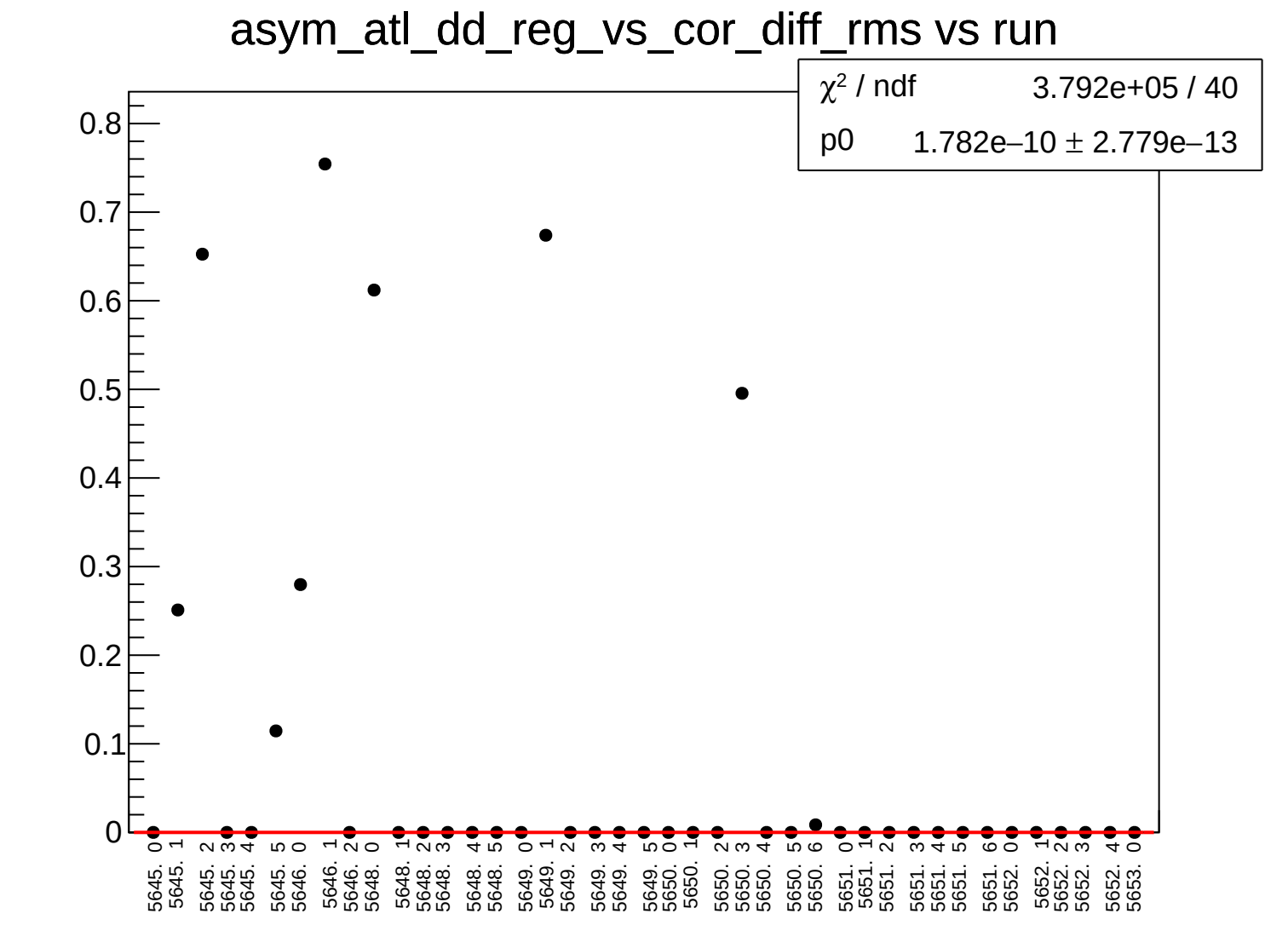

asym_atl_dd_mean vs run
×10^3
χ² / ndf 45.54 / 40
p0 −5754 ± 6312
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −210.9
Std Dev 0
3
2
1
0
−1
−2

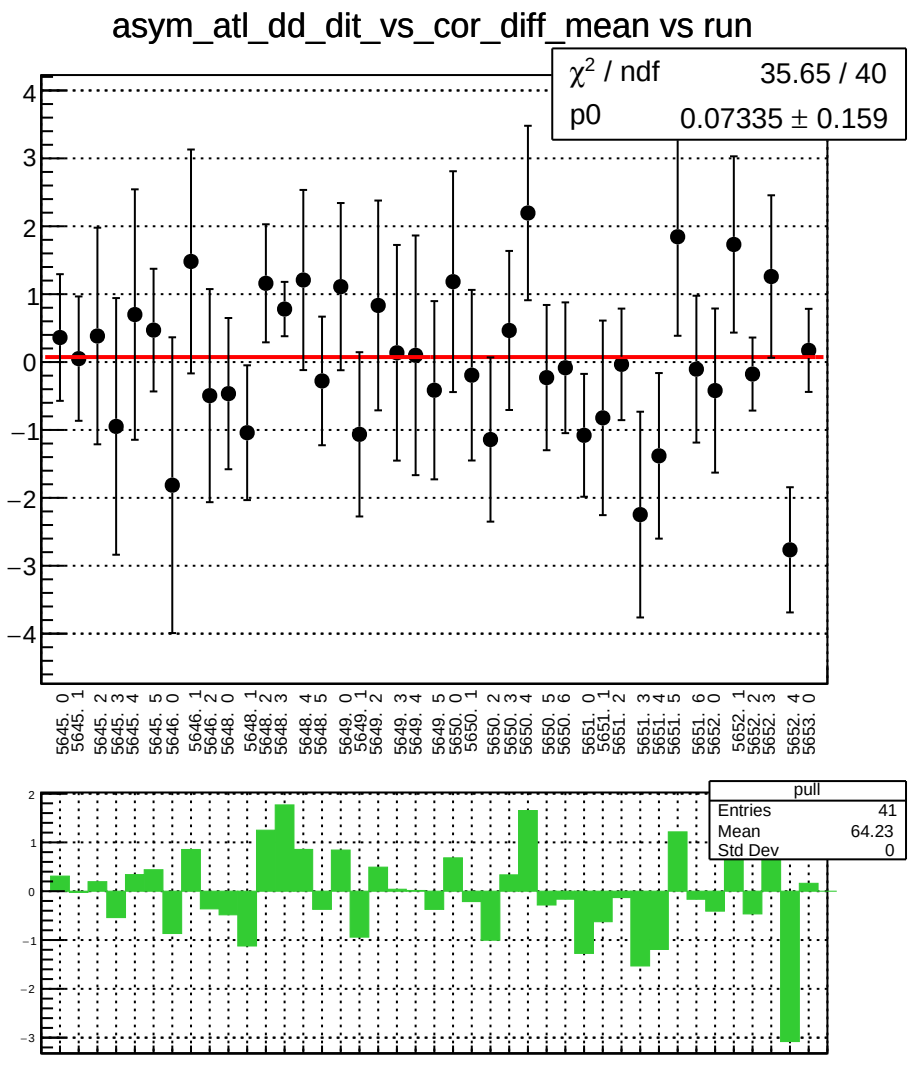

pull1D
Entries 41
Mean 0.007801
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

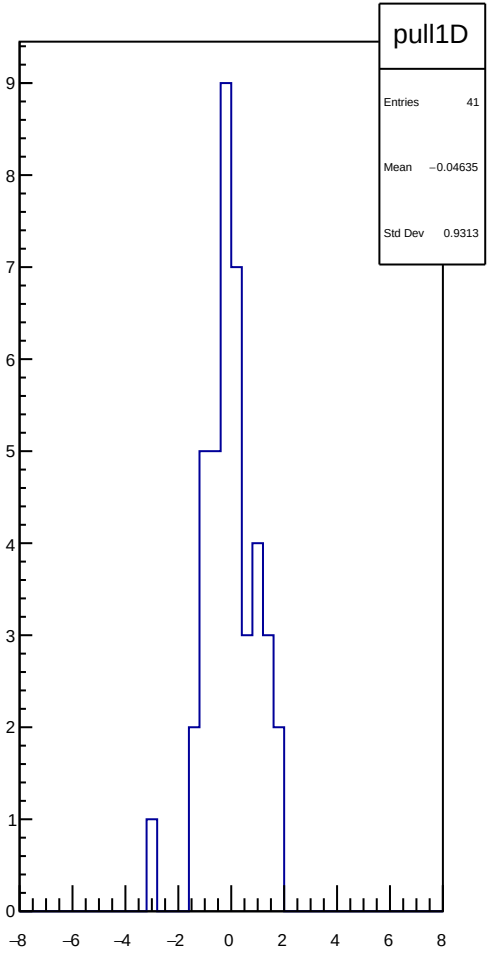

asym_atl_dd_rms vs run
χ² / ndf 3202 / 40
p0 3960 ± 4.463
4800
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

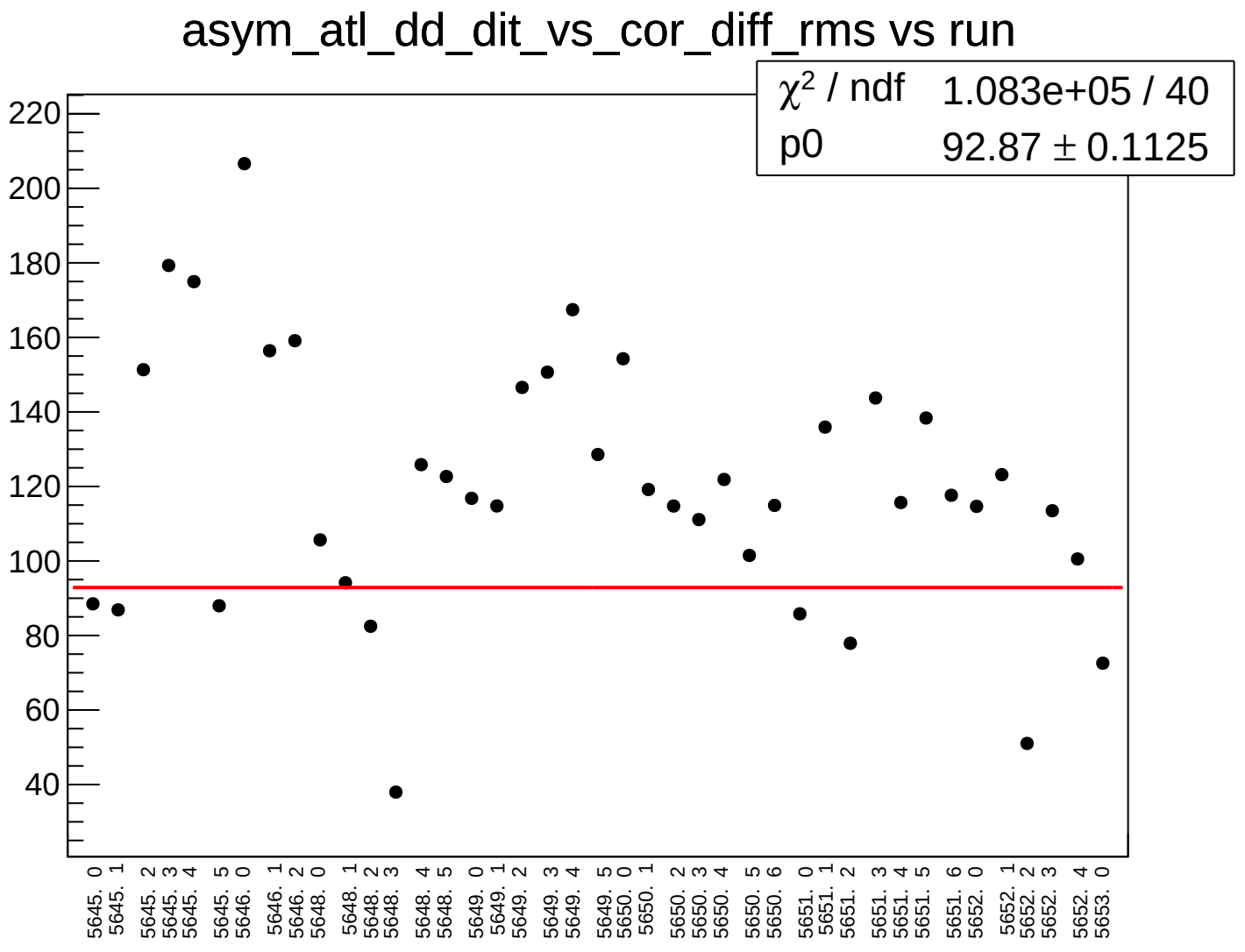

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.71 / 40
p0 1.095e−13 ± 3.93e−13
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 109.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

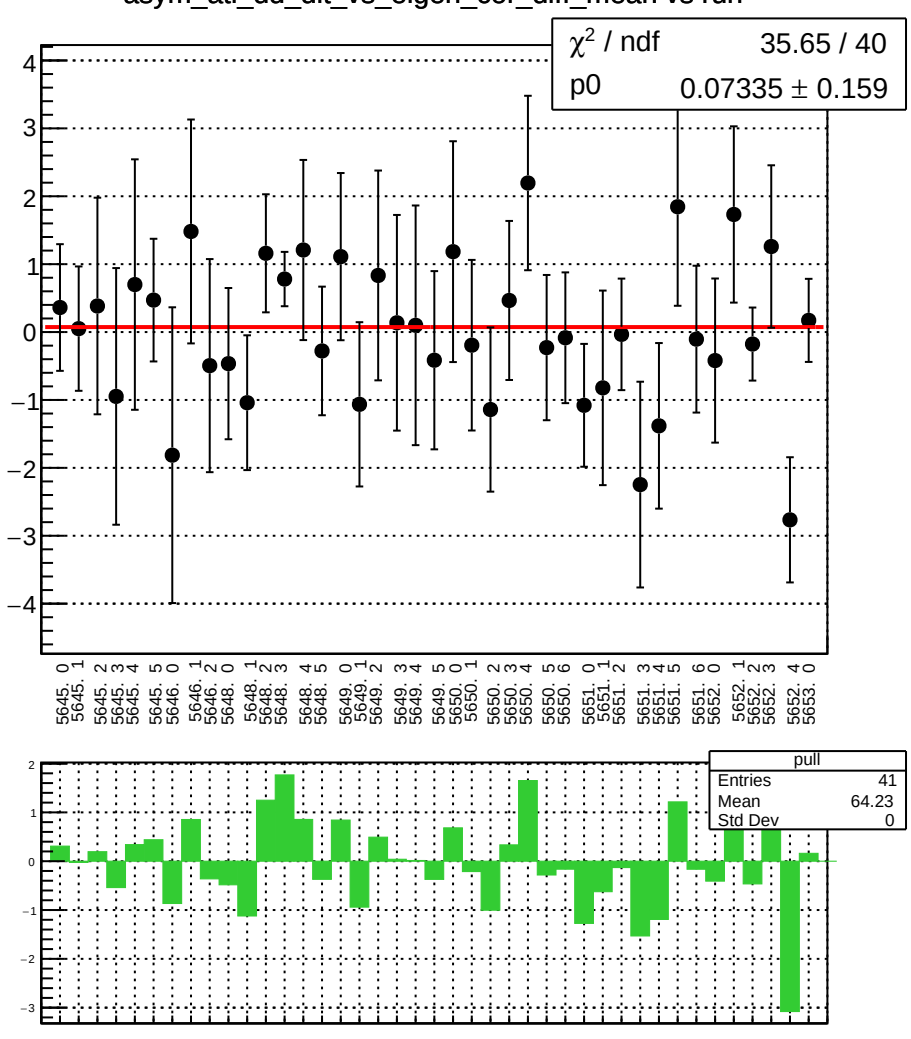

pull1D
Entries 41
Mean 0.03712
Std Dev 0.7755
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

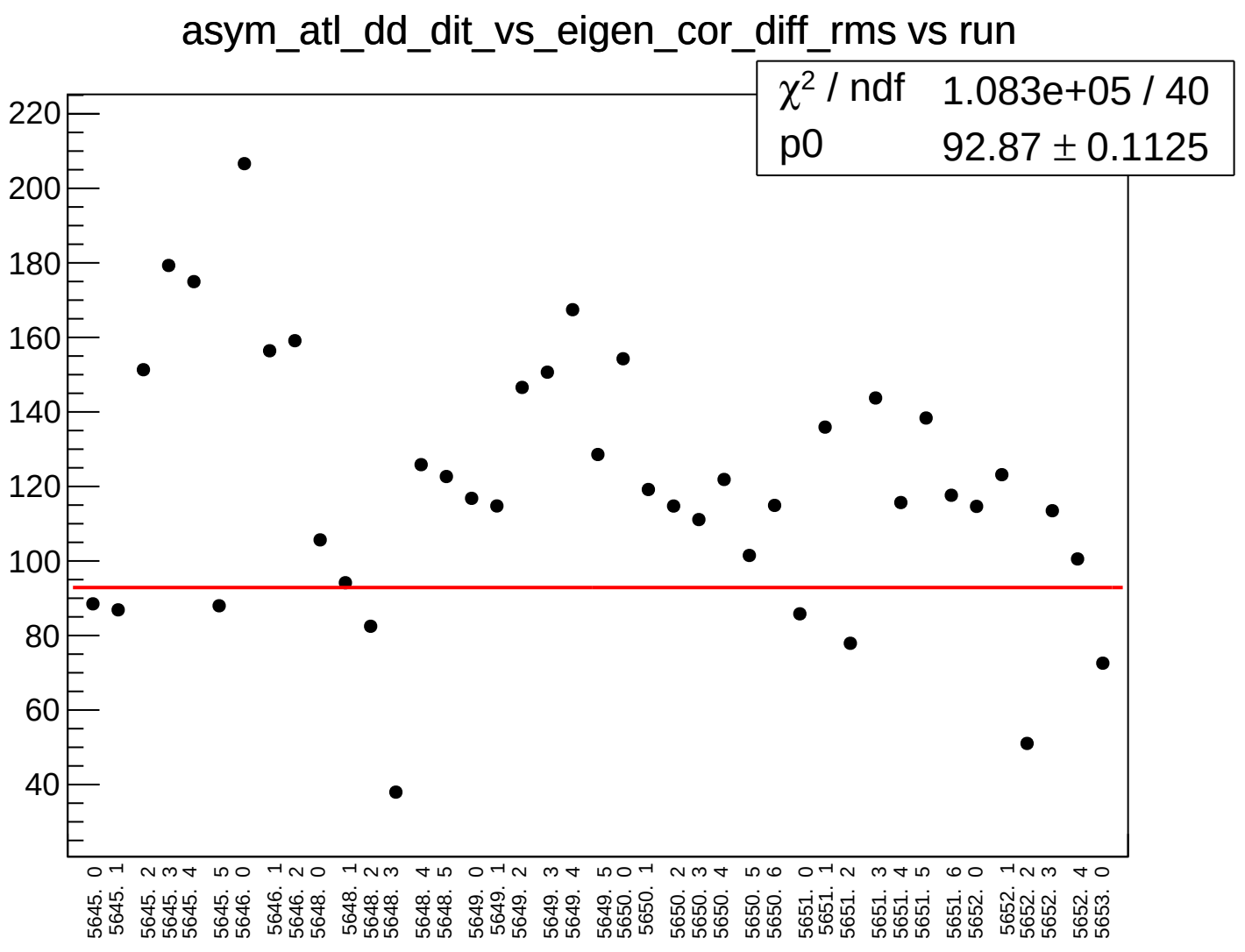

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.792e+05 / 40
p0 1.782e−10 ± 2.779e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

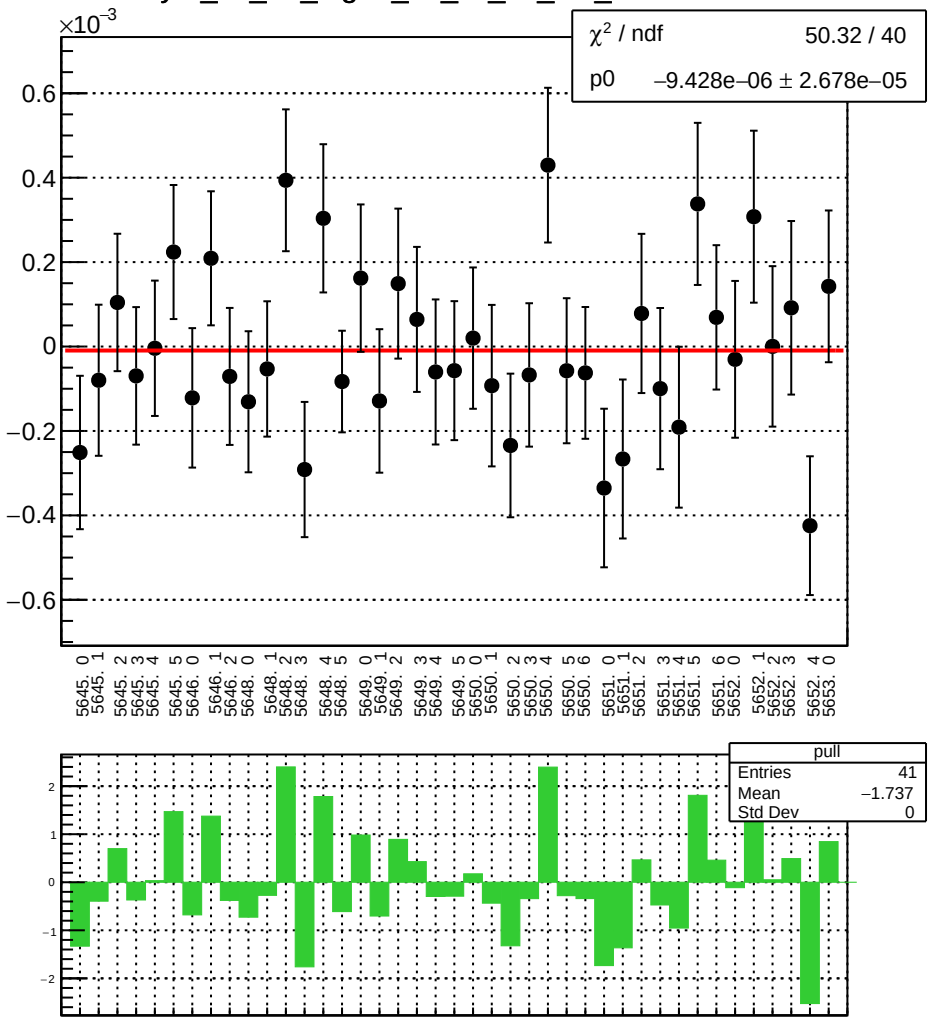

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.65 / 40
p0 0.07335 ± 0.159
pull
Entries 41
Mean 64.23
Std Dev 0

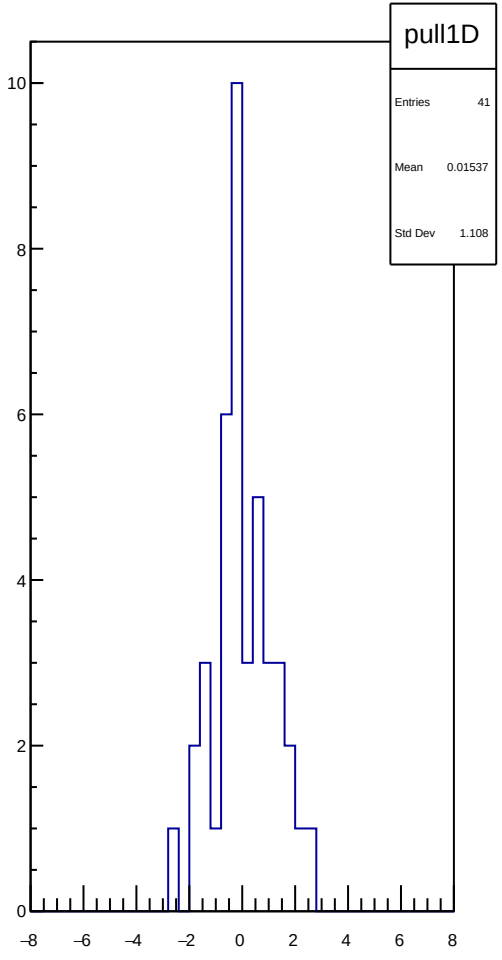

pull1D
Entries 41
Mean −0.04635
Std Dev 0.9313

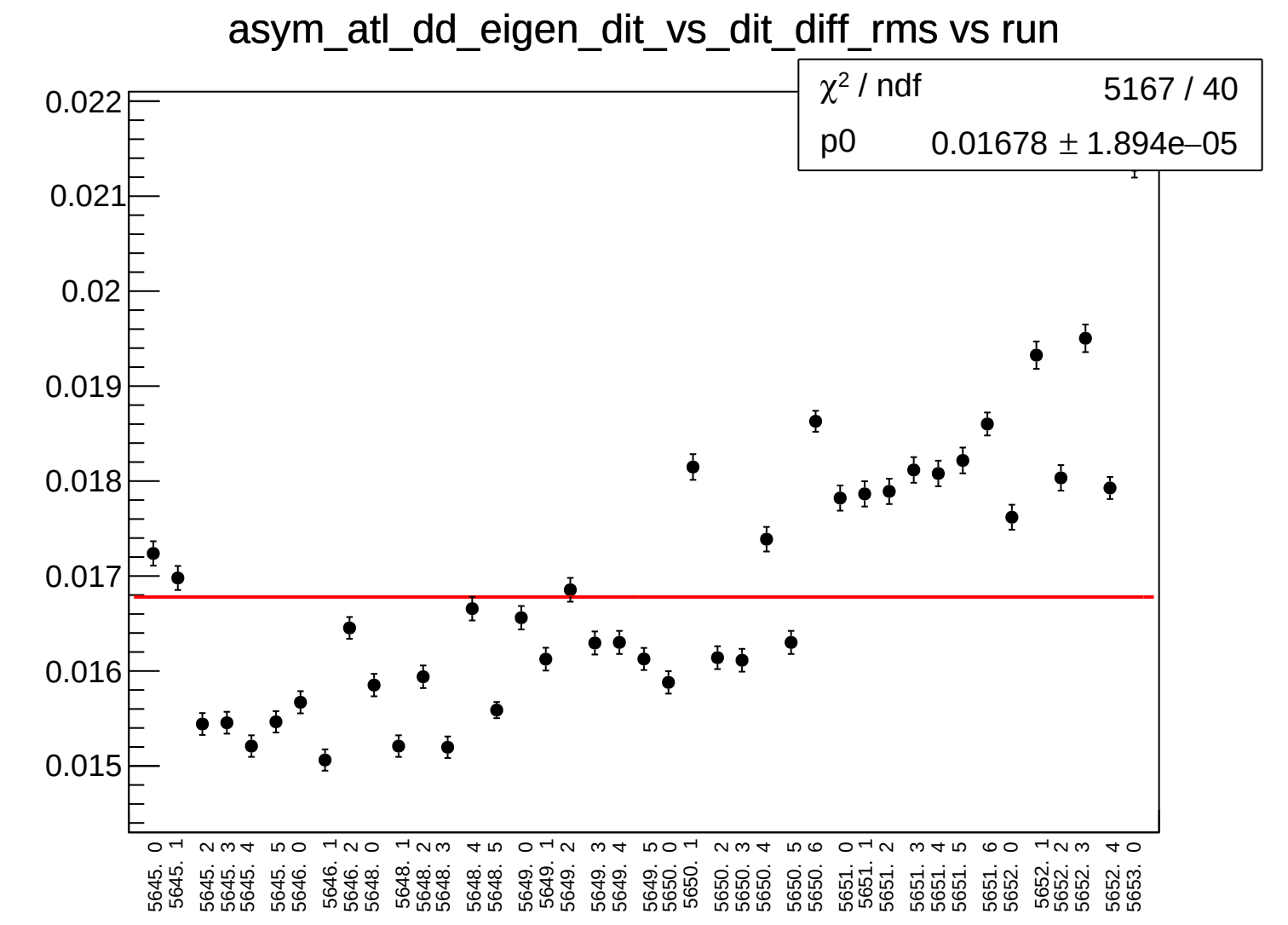

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 40
p0 92.87 ± 0.1125
220
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

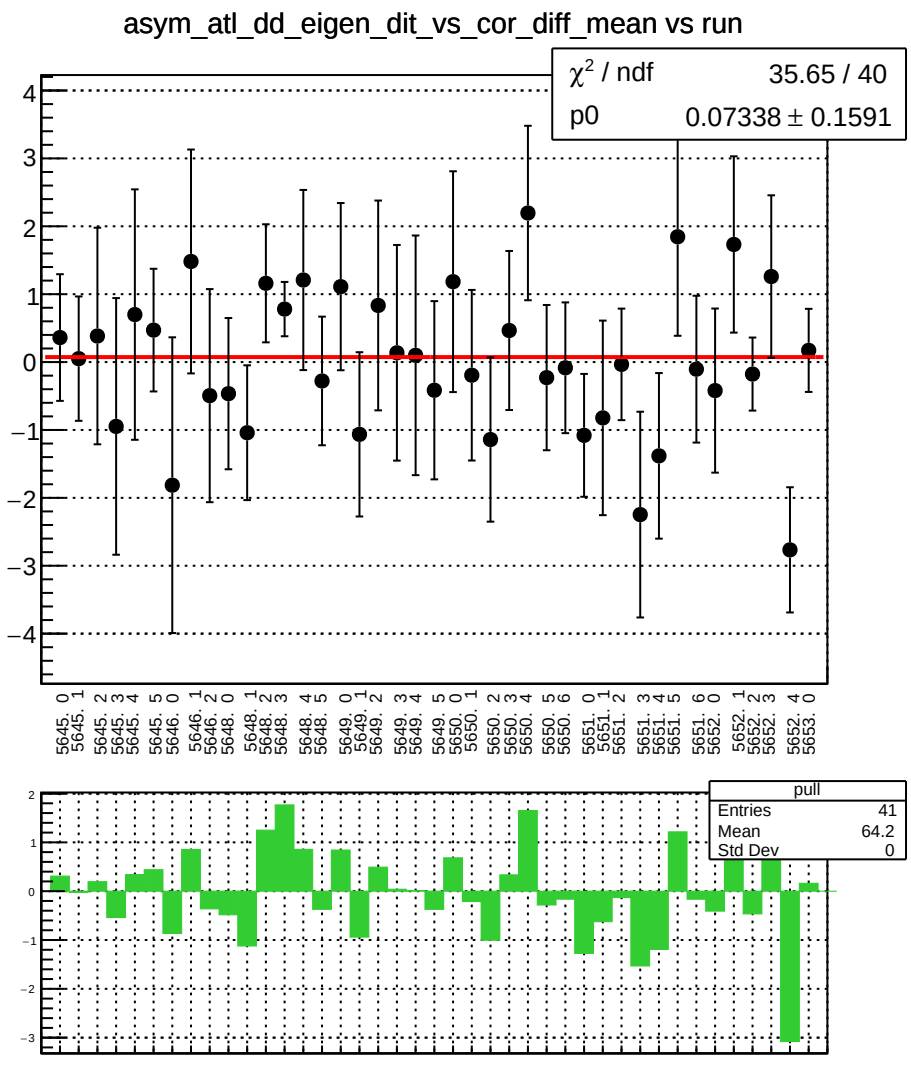

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.65 / 40
p0 0.07335 ± 0.159
pull
Entries 41
Mean 64.23
Std Dev 0
pull1D
Entries 41
Mean −0.04635
Std Dev 0.9313

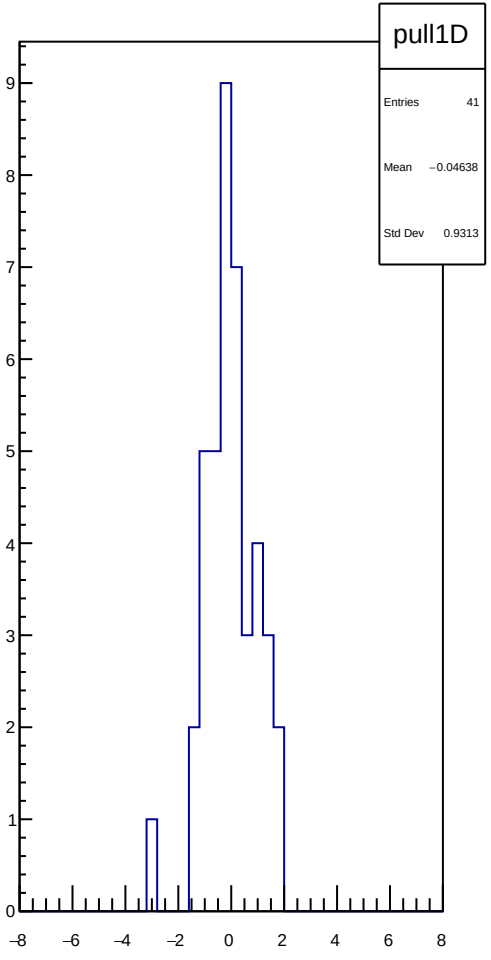

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 40
p0 92.87 ± 0.1125
220
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

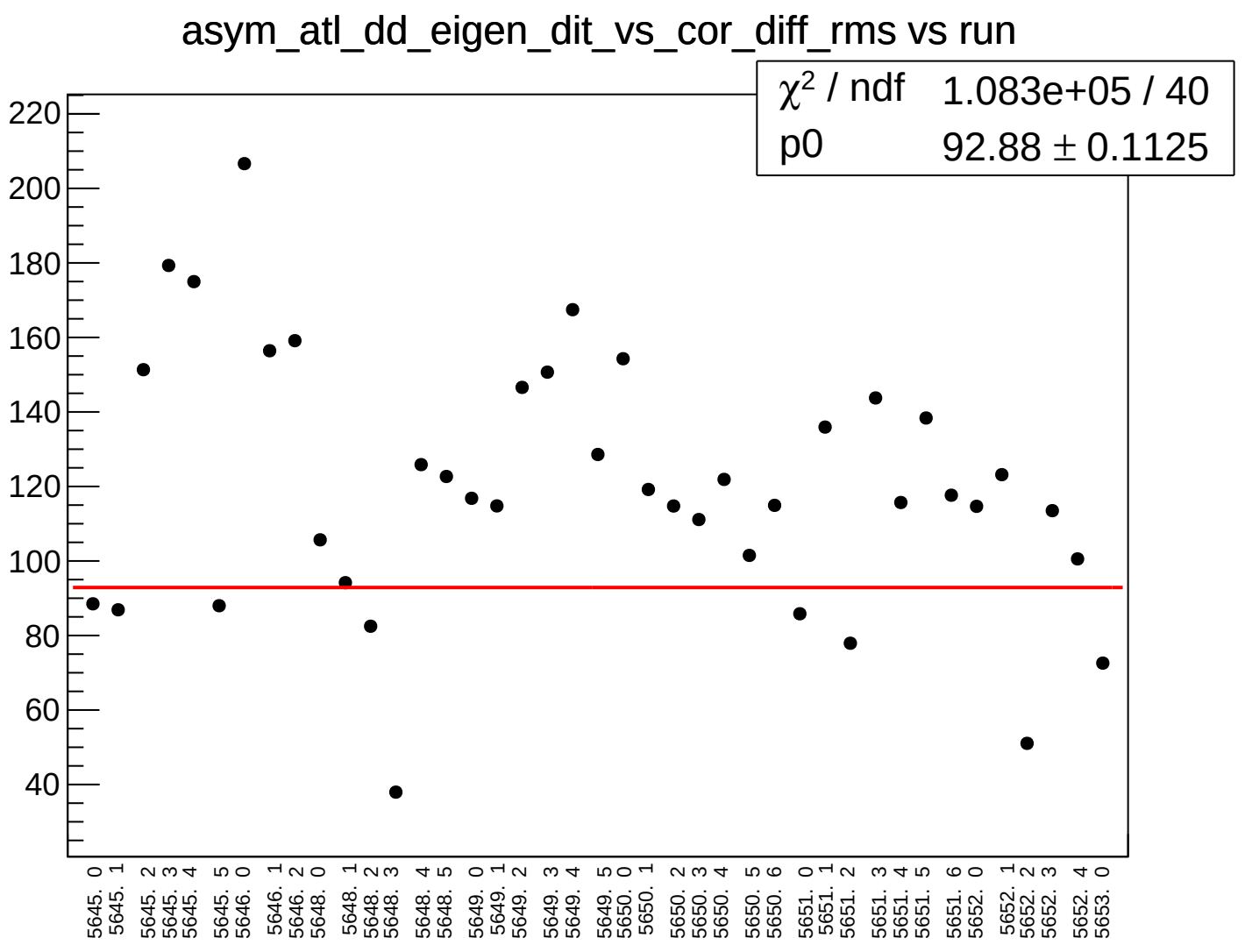

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.32 / 40
p0 −9.428e−06 ± 2.678e−05
pull
Entries 41
Mean −1.737
Std Dev 0

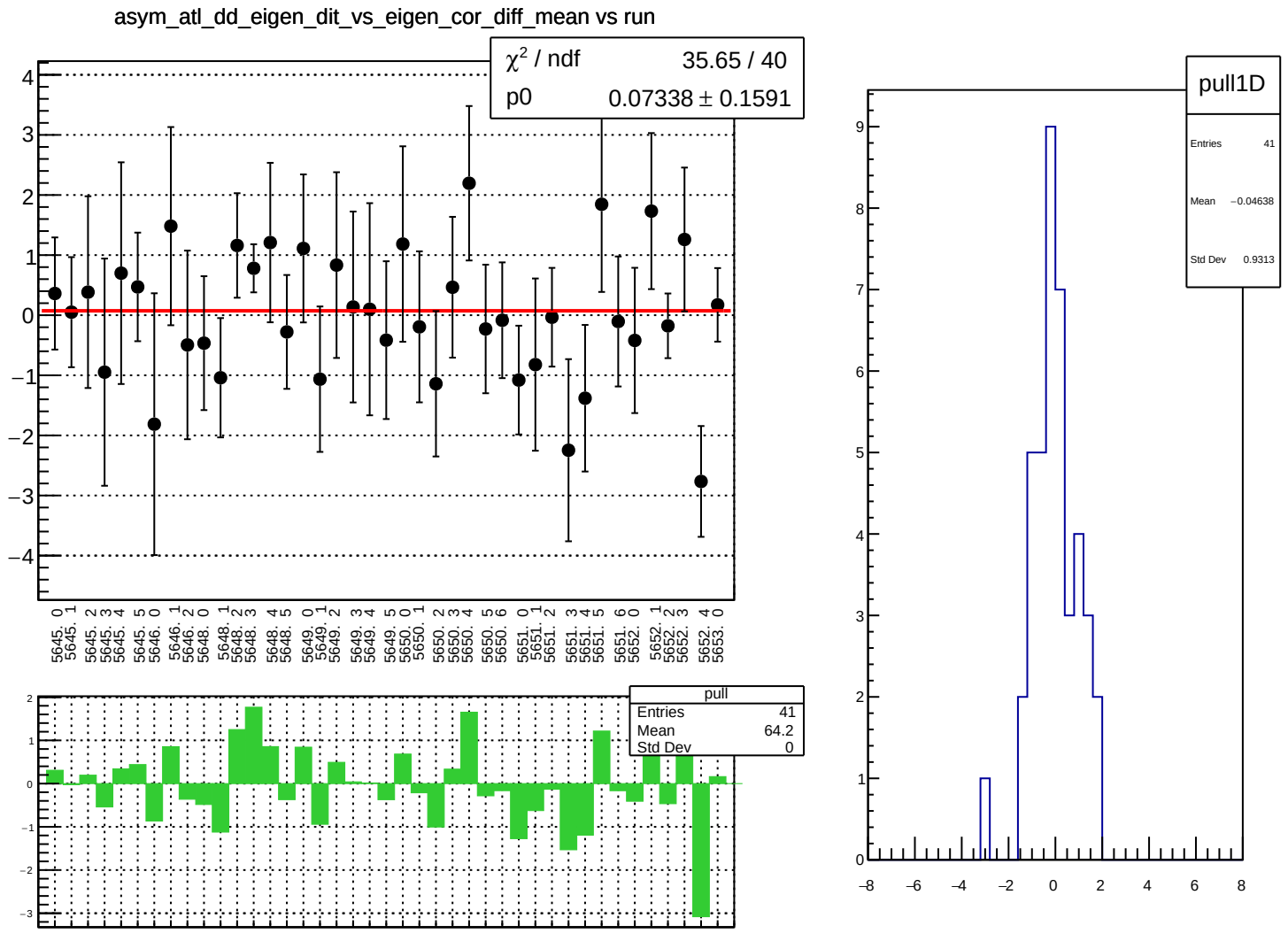

pull1D
Entries 41
Mean 0.01537
Std Dev 1.108

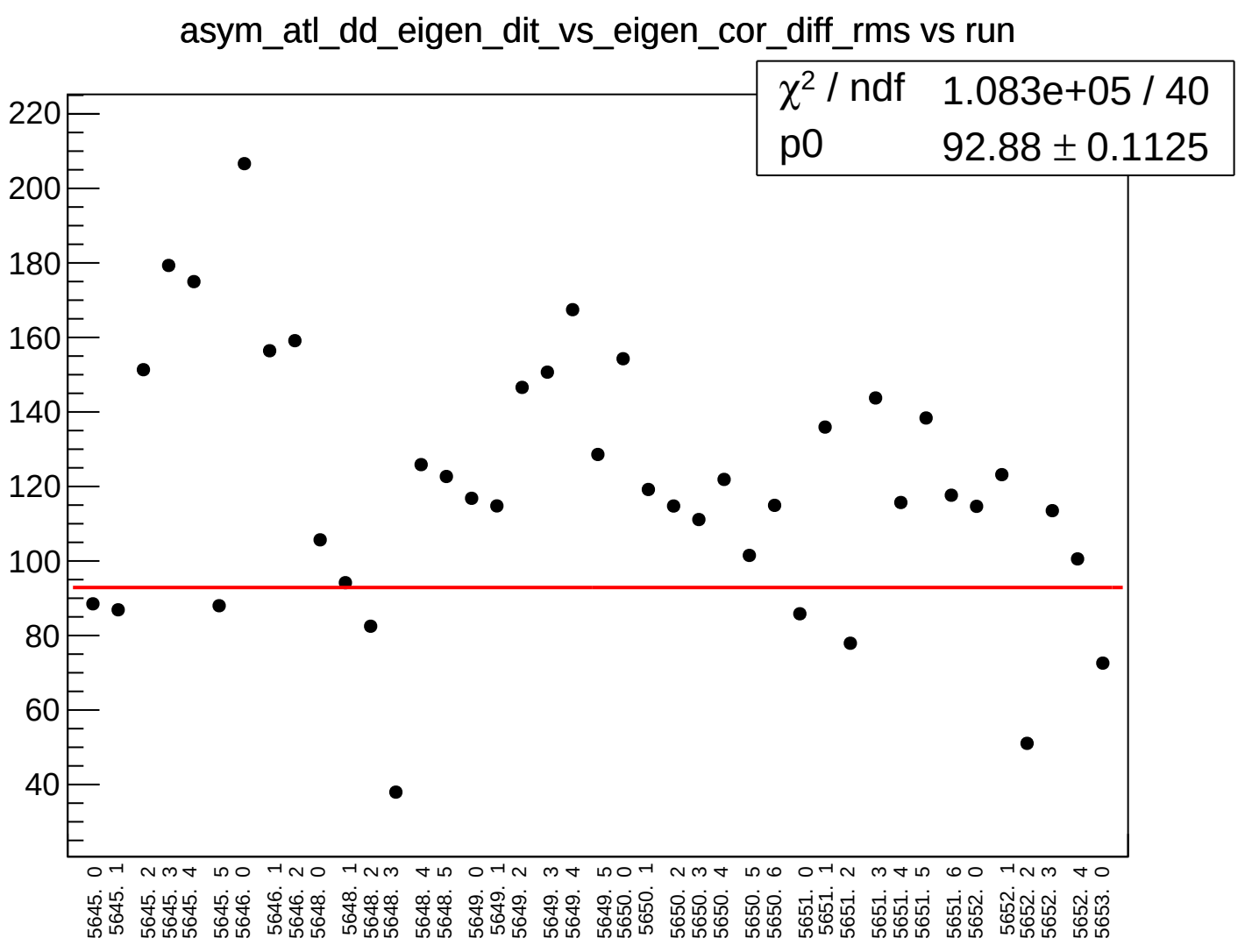

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5167 / 40
p0 0.01678 ± 1.894e−05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

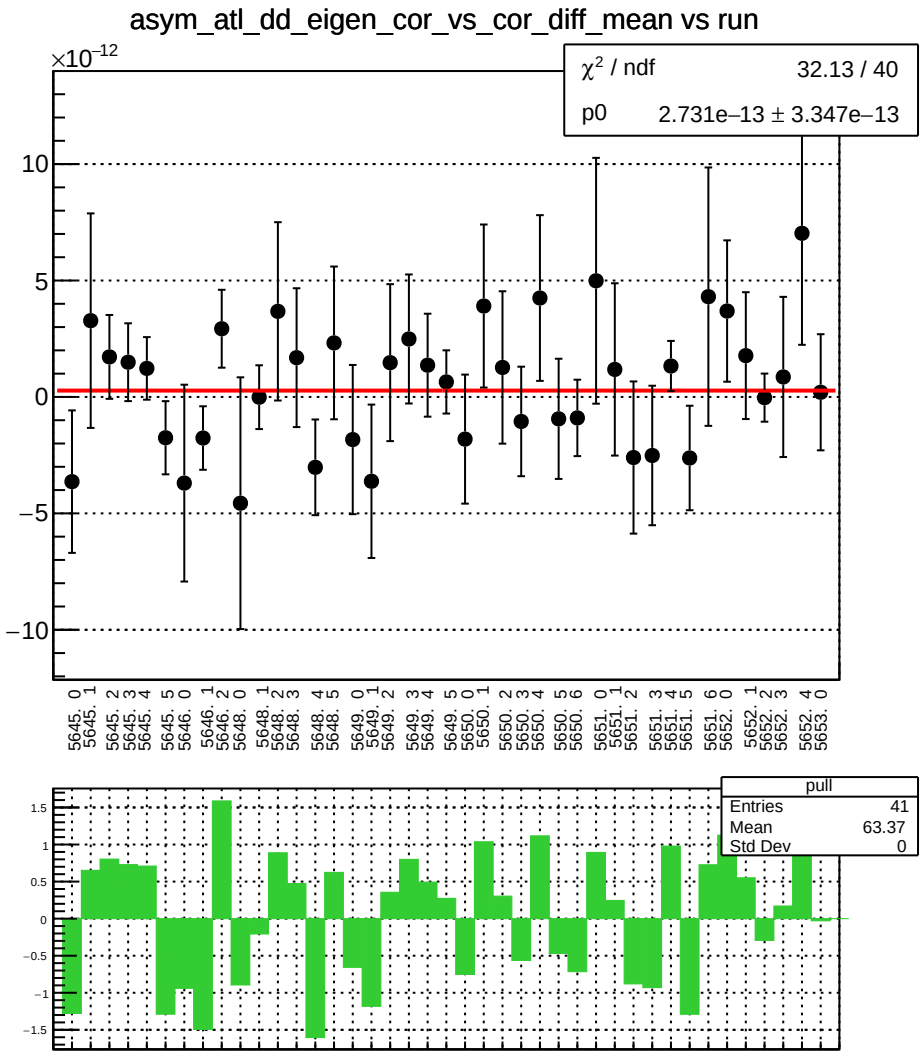

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.65 / 40
p0 0.07338 ± 0.1591
pull
Entries 41
Mean 64.2
Std Dev 0

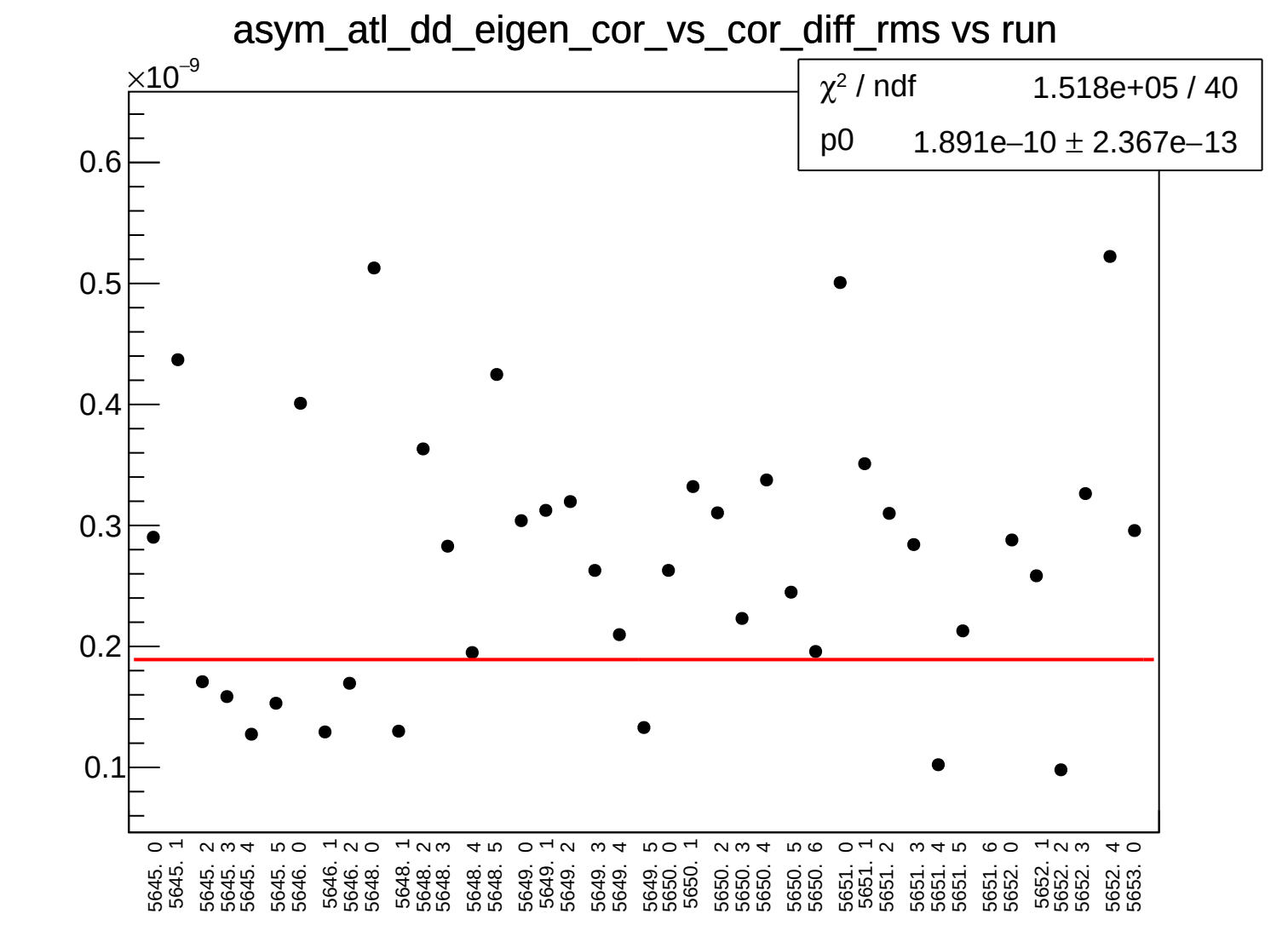

pull1D
Entries 41
Mean −0.04638
Std Dev 0.9313

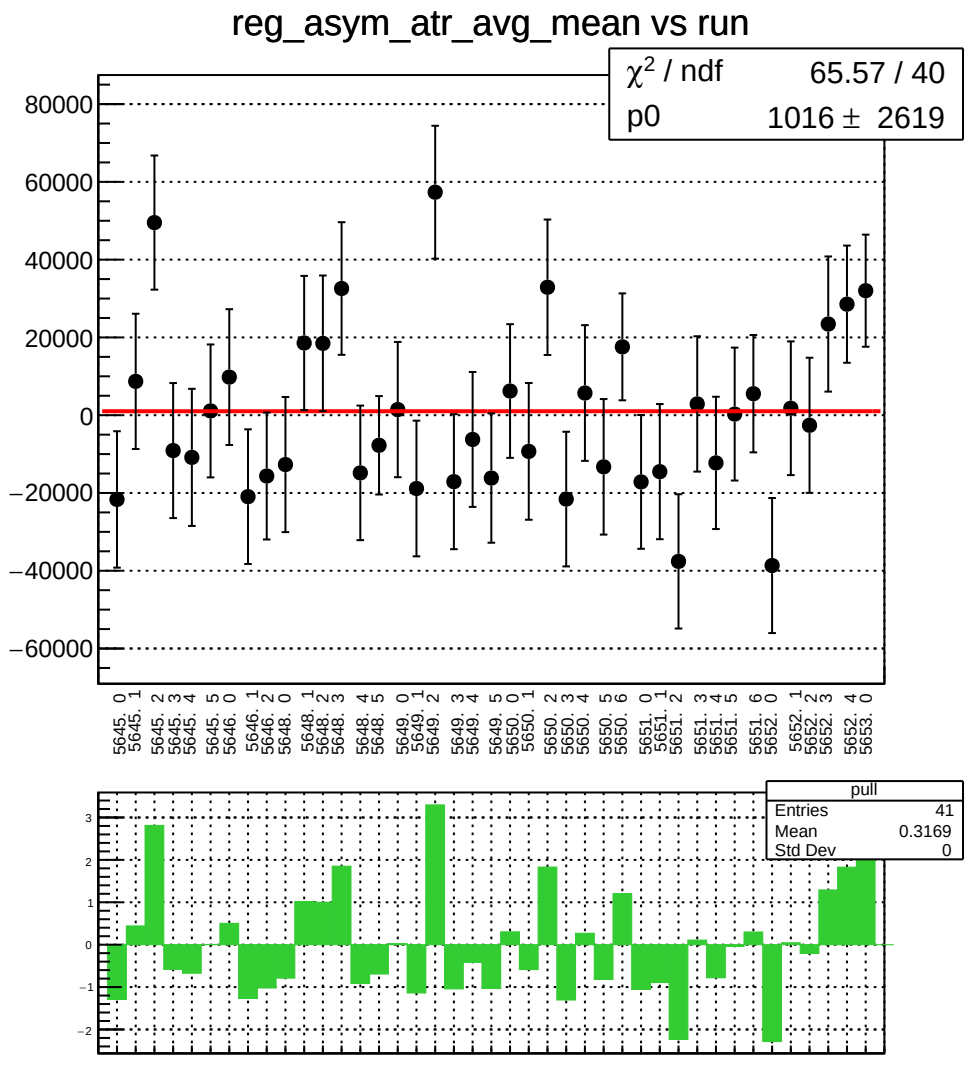

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 40
p0 92.88 ± 0.1125
220
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

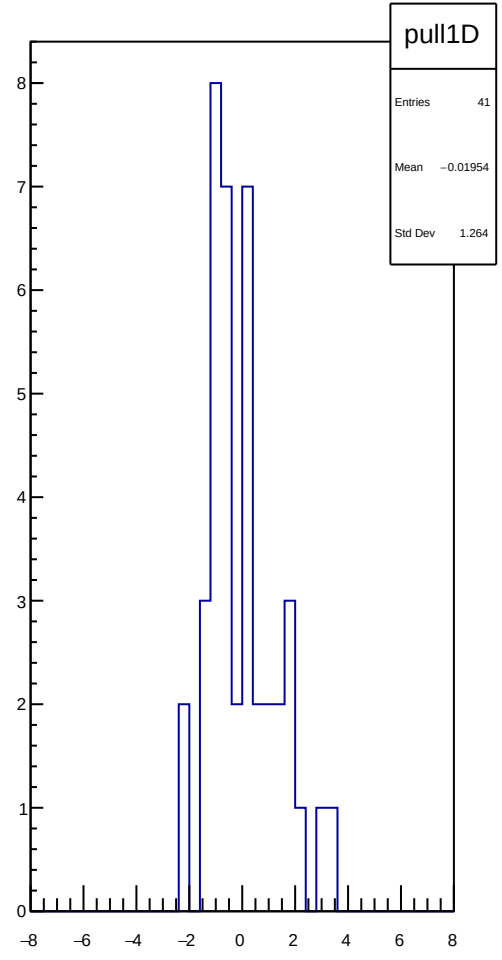

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.65 / 40
p0 0.07338 ± 0.1591
pull
Entries 41
Mean 64.2
Std Dev 0
pull1D
Entries 41
Mean −0.04638
Std Dev 0.9313

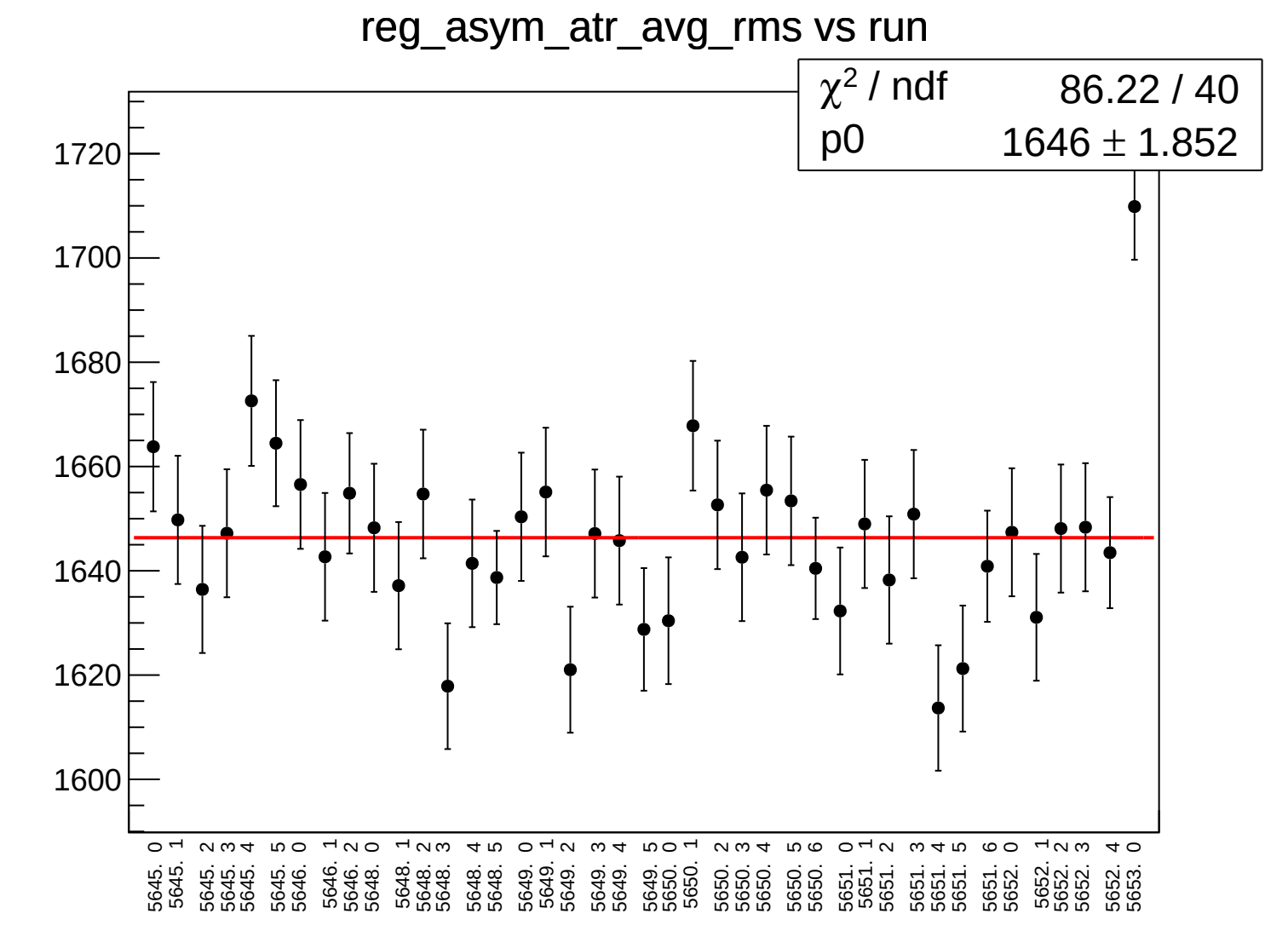

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 40
p0 92.88 ± 0.1125
220
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

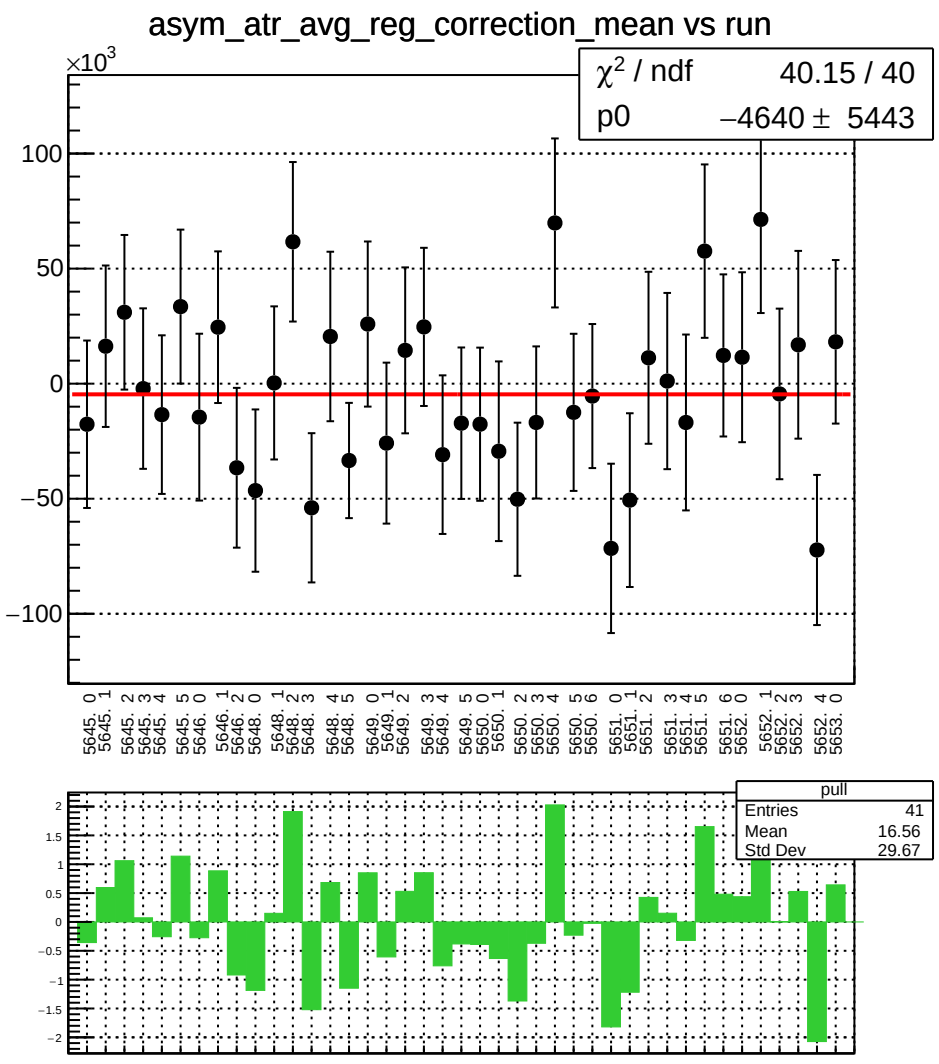

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.13 / 40
p0 2.731e−13 ± 3.347e−13
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 63.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.03613
Std Dev 0.8846
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

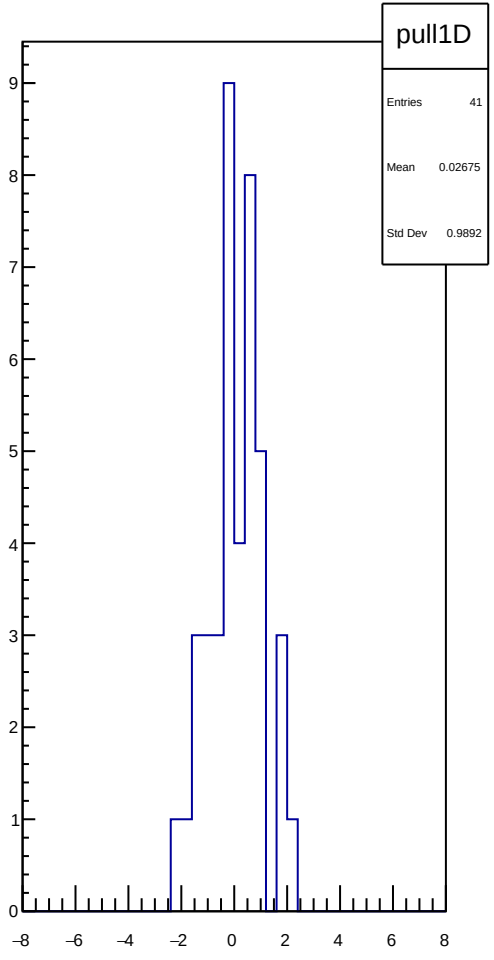

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.518e+05 / 40
p0 1.891e−10 ± 2.367e−13
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

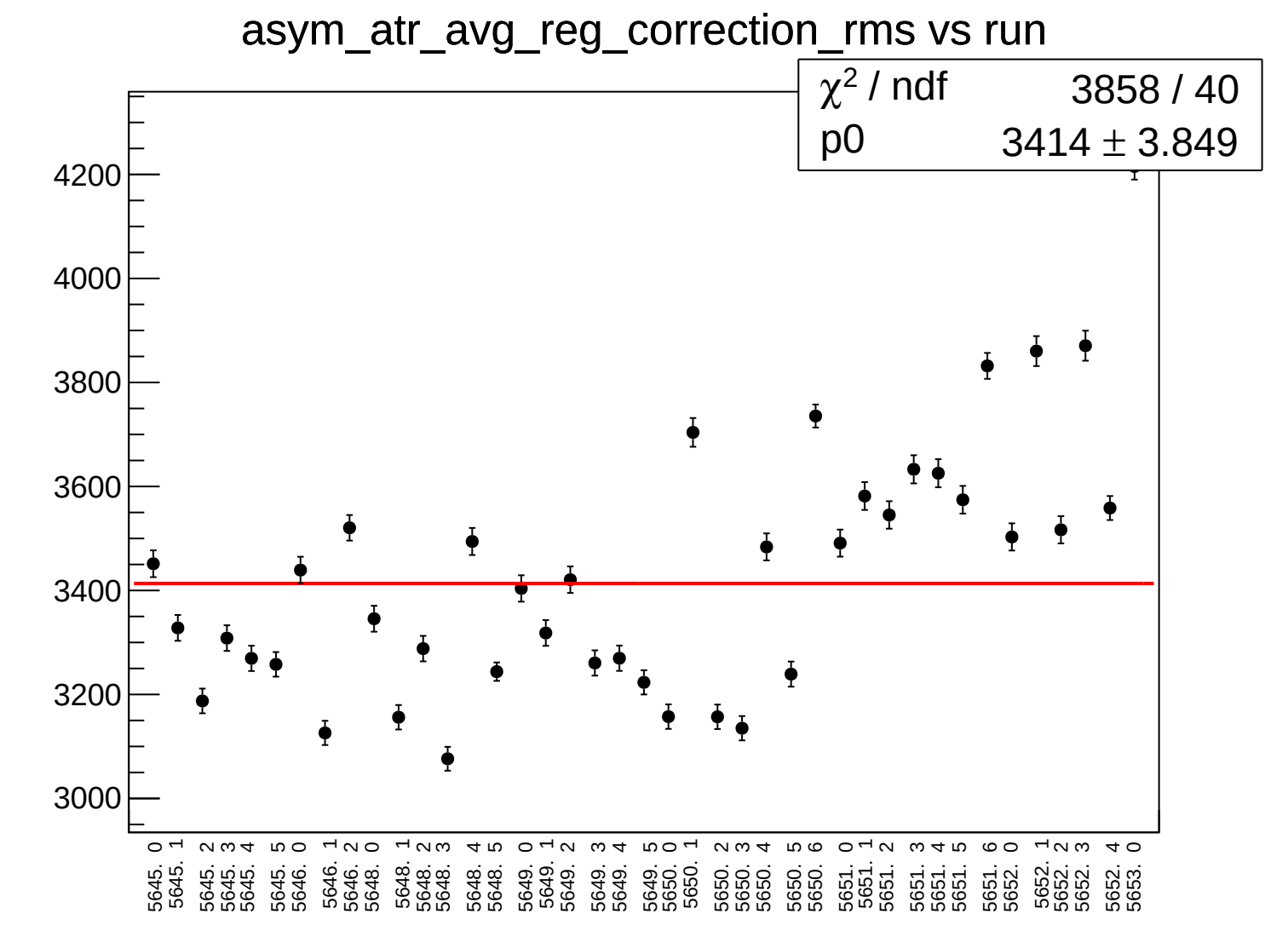

reg_asym_atr_avg_mean vs run
χ² / ndf 65.57 / 40
p0 1016 ± 2619
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 0.3169
Std Dev 0
3
2
1
0
−1
−2

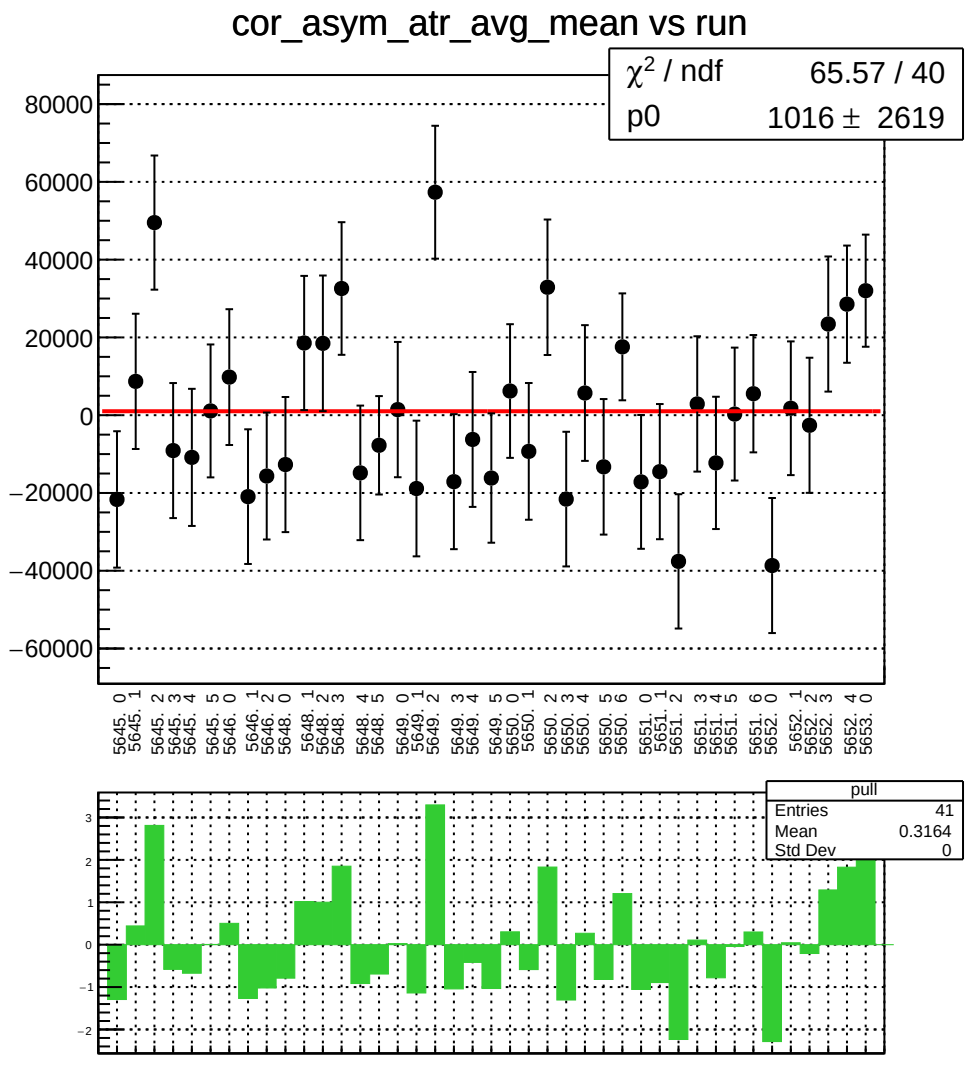

pull1D
Entries 41
Mean −0.01954
Std Dev 1.264
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

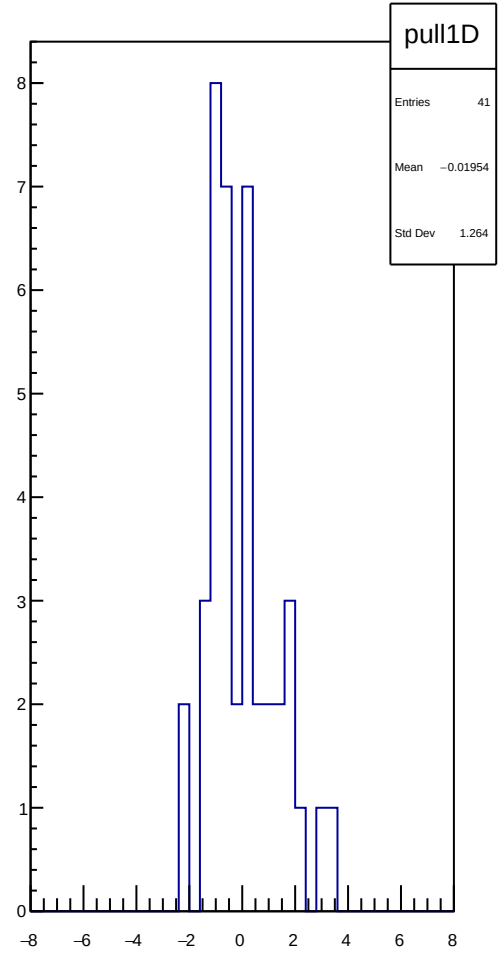

reg_asym_atr_avg_rms vs run
χ² / ndf 86.22 / 40
p0 1646 ± 1.852
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

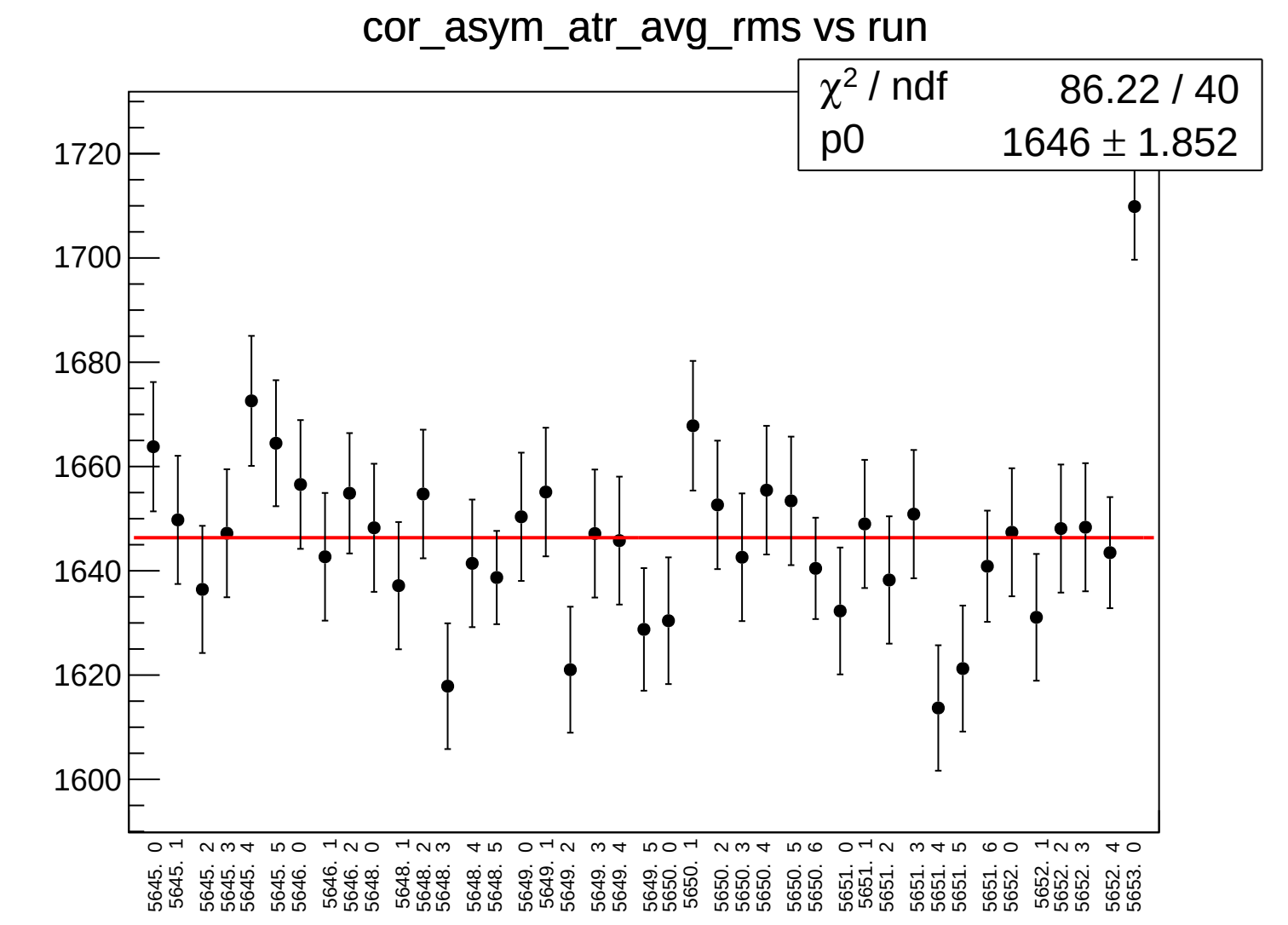

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 40.15 / 40
p0 −4640 ± 5443
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 16.56
Std Dev 29.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

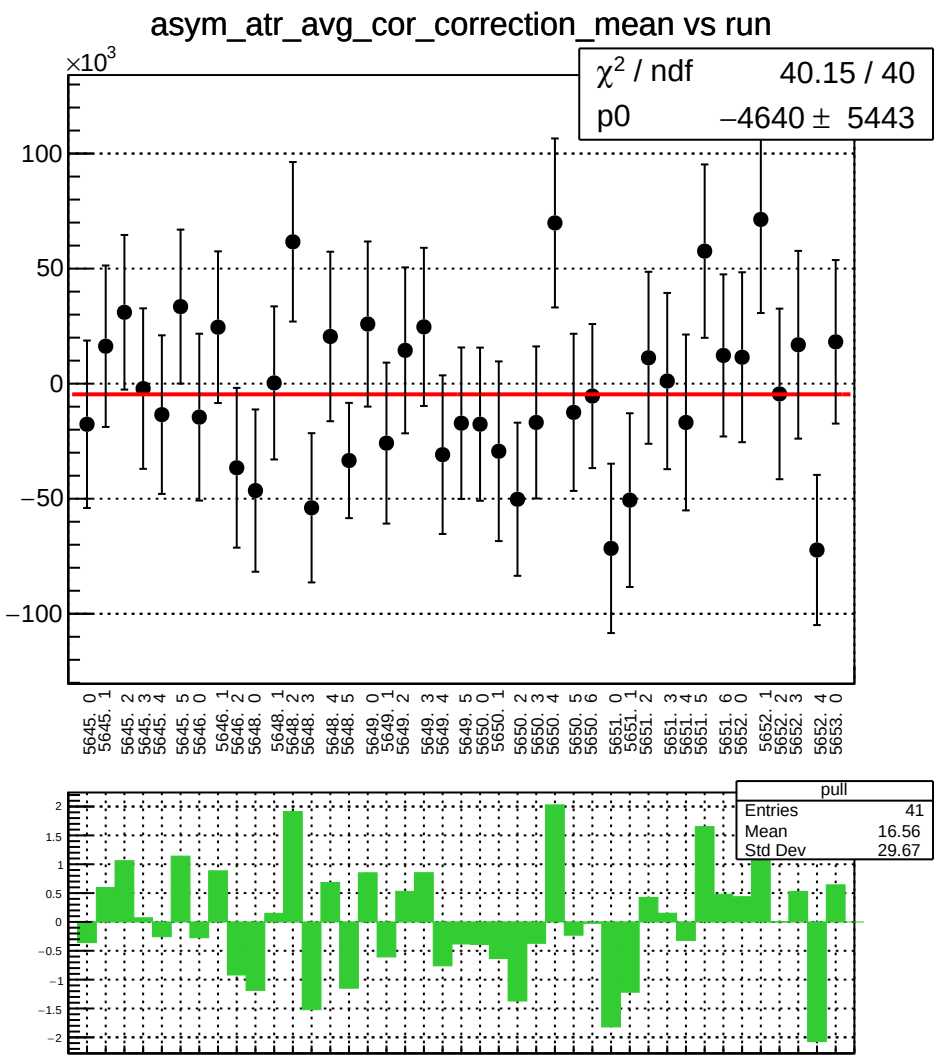

pull1D
Entries 41
Mean 0.02675
Std Dev 0.9892
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

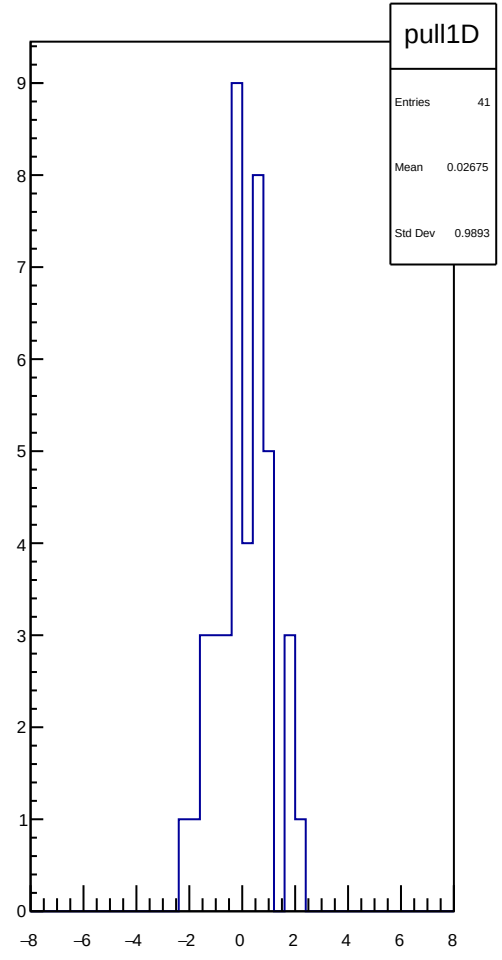

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3858 / 40
p0 3414 ± 3.849
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

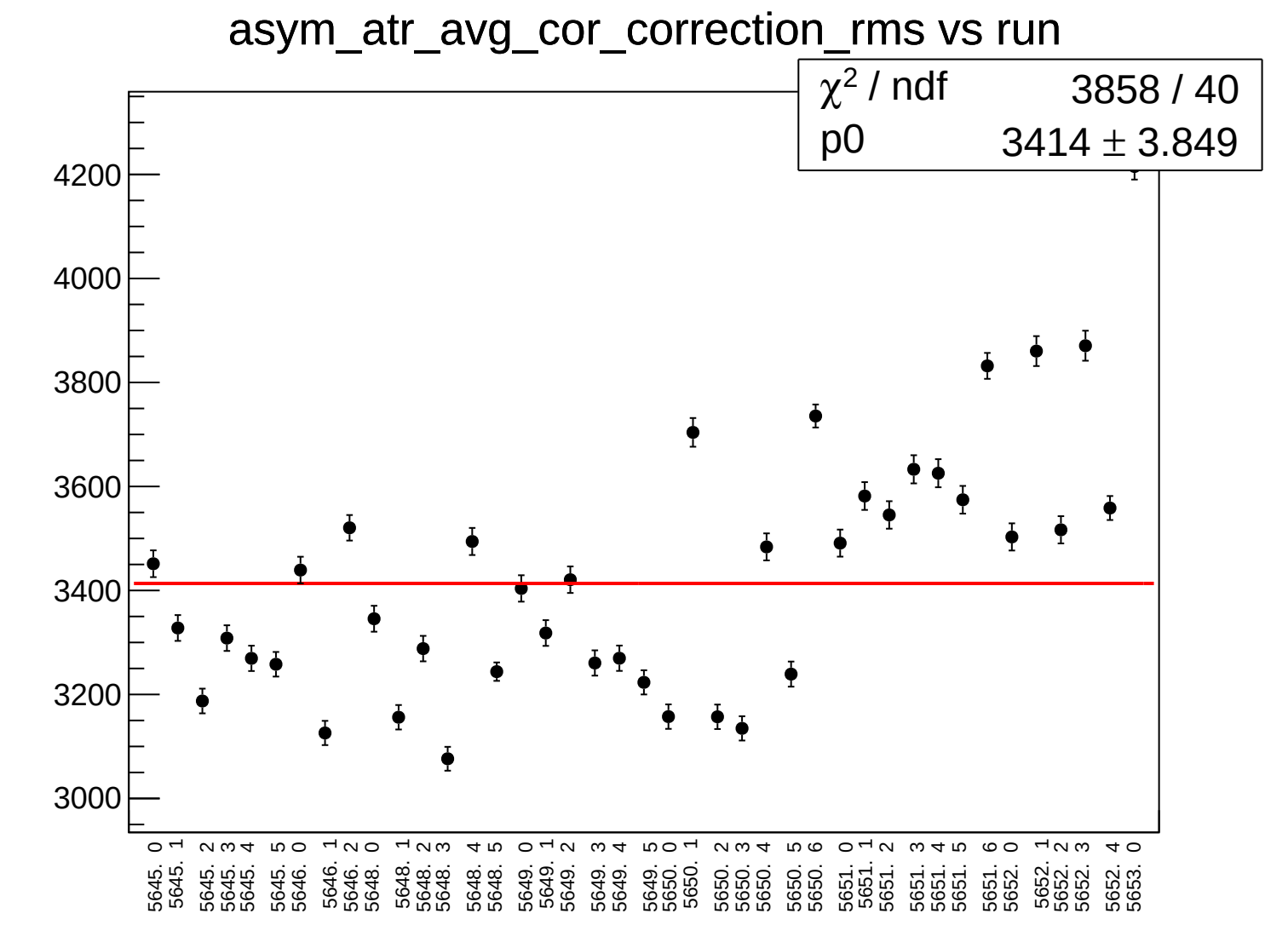

cor_asym_atr_avg_mean vs run
χ² / ndf 65.57 / 40
p0 1016 ± 2619
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 0.3164
Std Dev 0
3
2
1
0
−1
−2

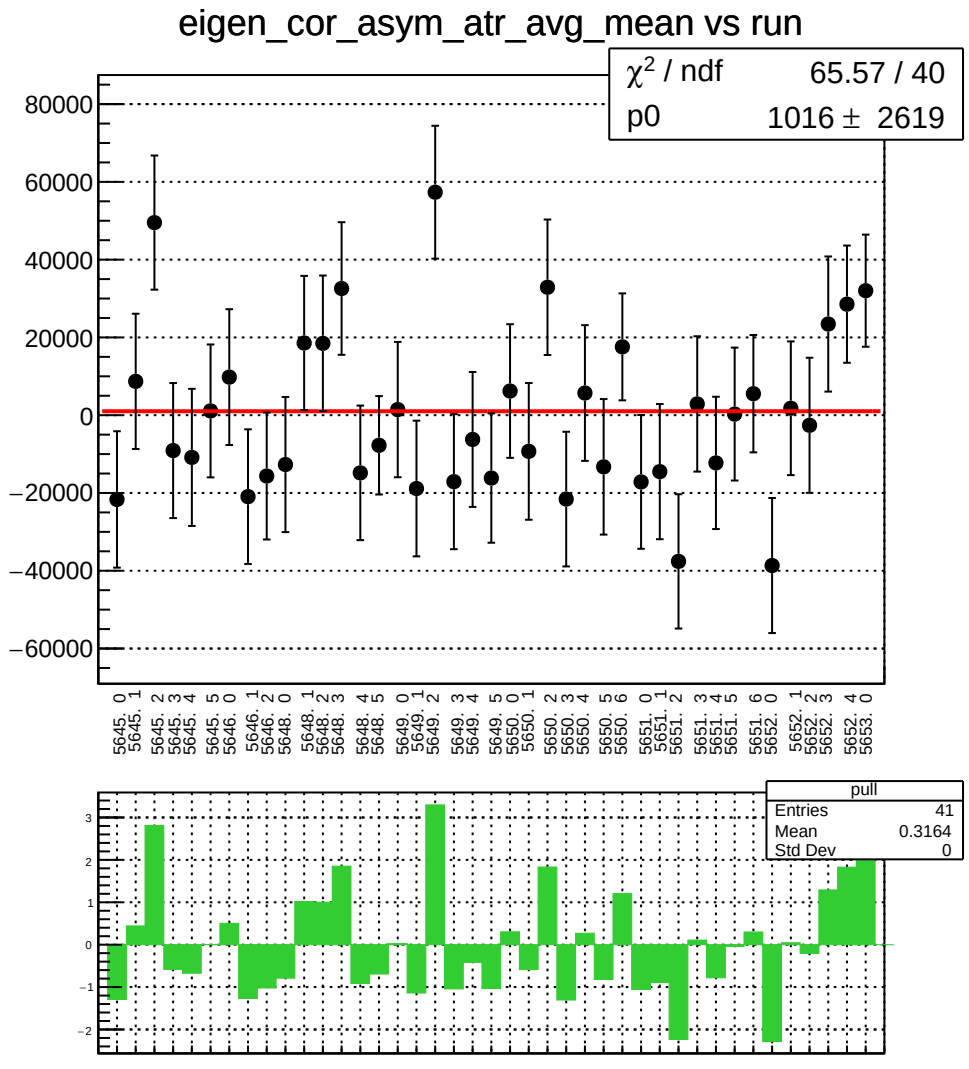

pull1D
Entries 41
Mean −0.01954
Std Dev 1.264
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

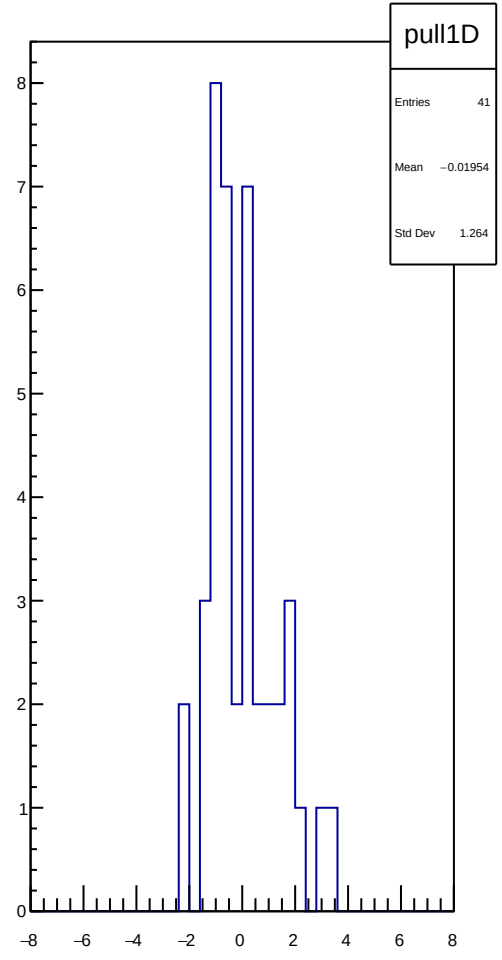

cor_asym_atr_avg_rms vs run
χ² / ndf 86.22 / 40
p0 1646 ± 1.852
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

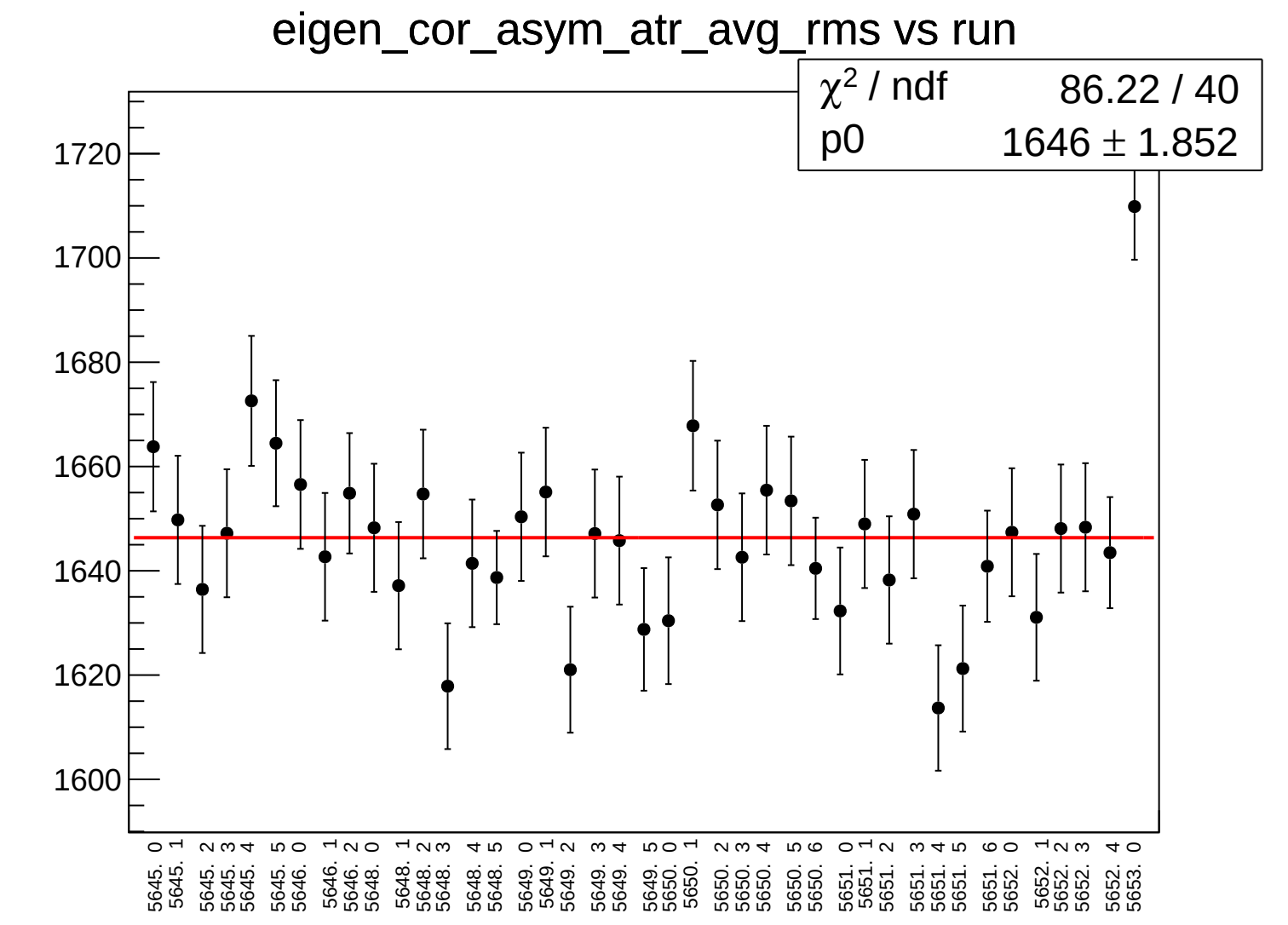

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 40.15 / 40
p0 −4640 ± 5443
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 16.56
Std Dev 29.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

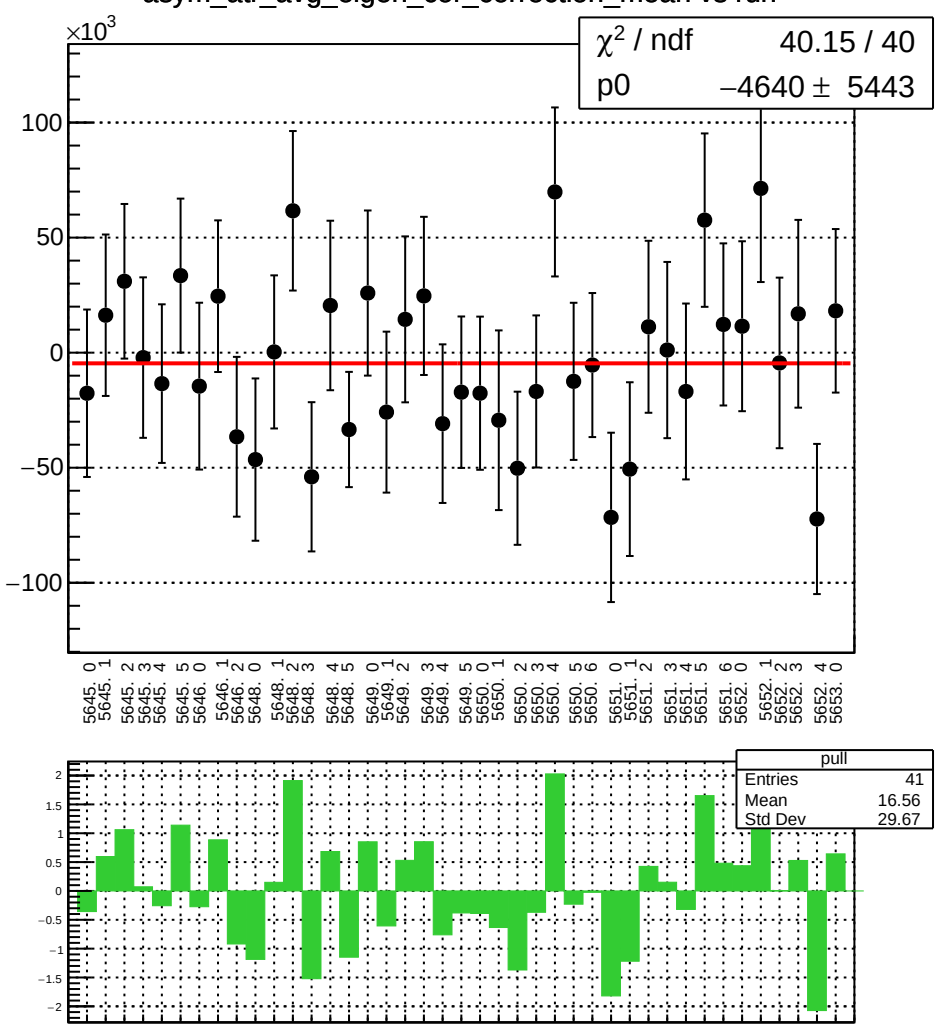

pull1D
Entries 41
Mean 0.02675
Std Dev 0.9893
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

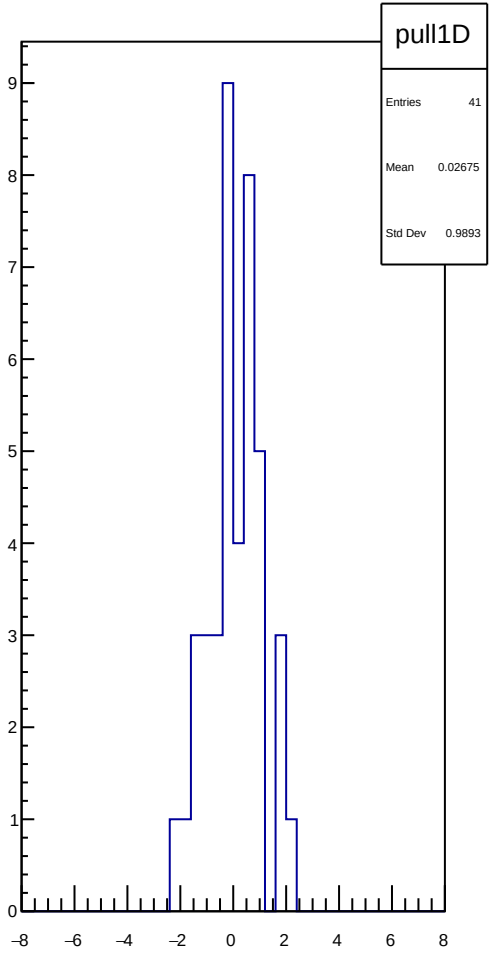

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3858 / 40
p0 3414 ± 3.849
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 65.57 / 40
p0 1016 ± 2619
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 0.3164
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.01954
Std Dev 1.264
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 86.22 / 40
p0 1646 ± 1.852
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.15 / 40
p0 −4640 ± 5443
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 16.56
Std Dev 29.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02675
Std Dev 0.9893
9
8
7
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5
4
3
2
1
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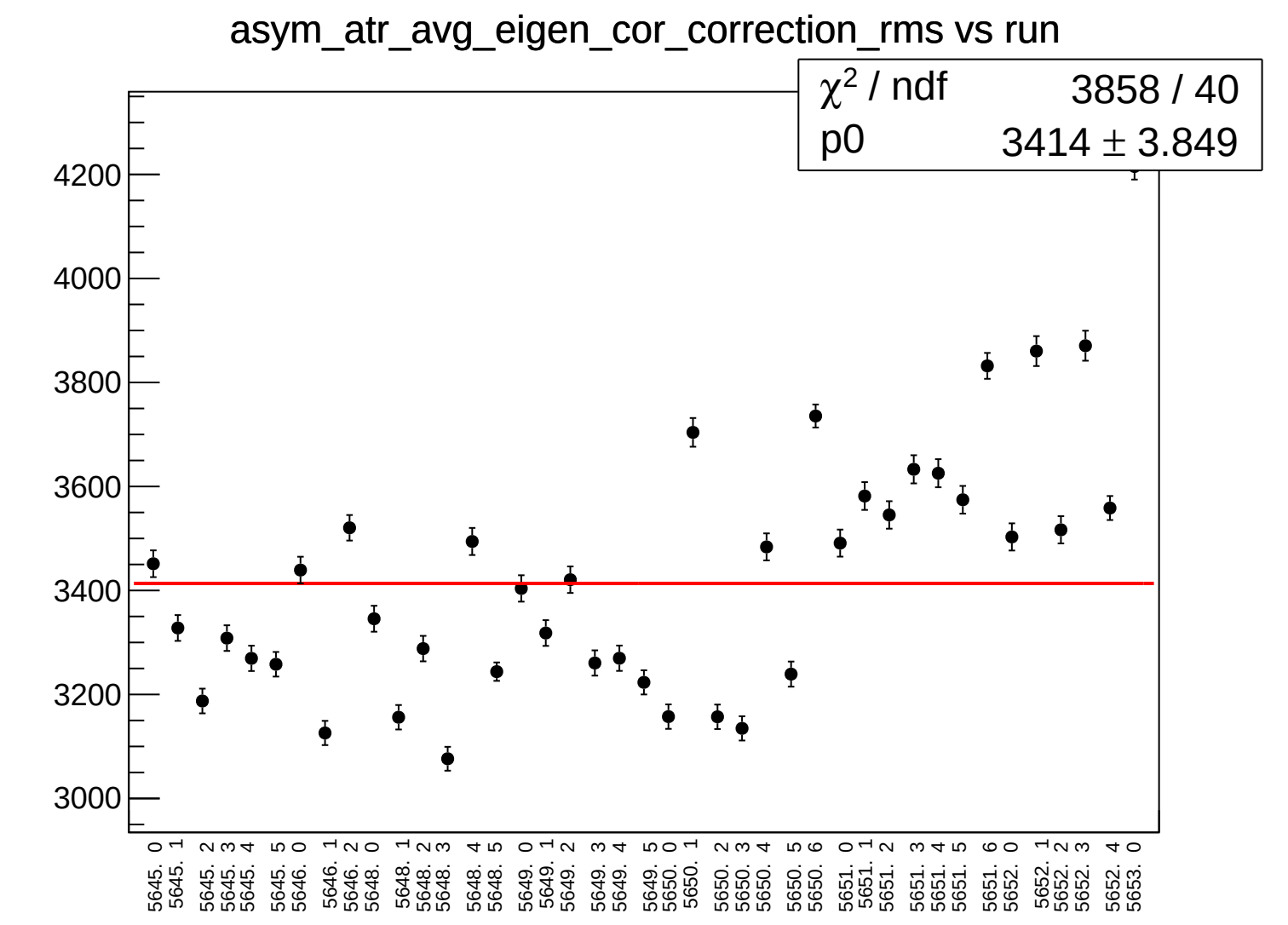
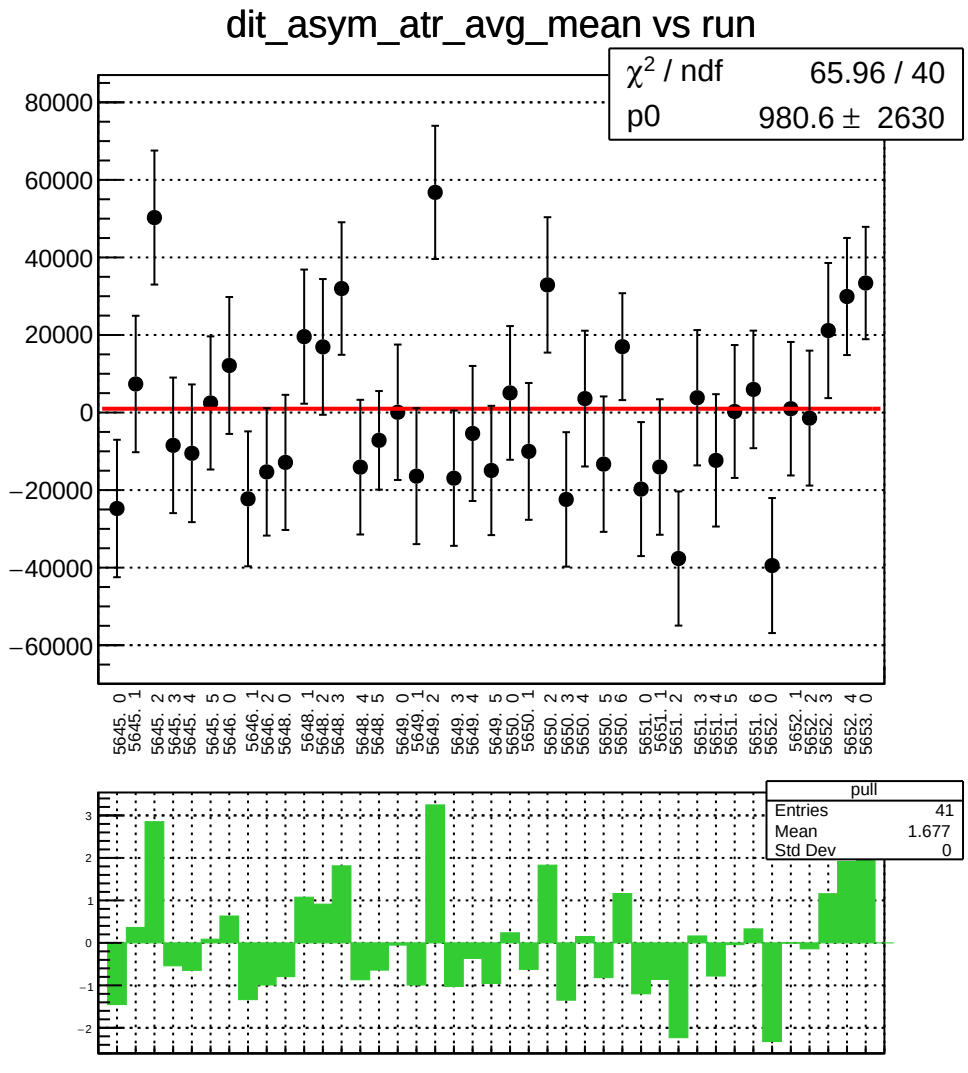
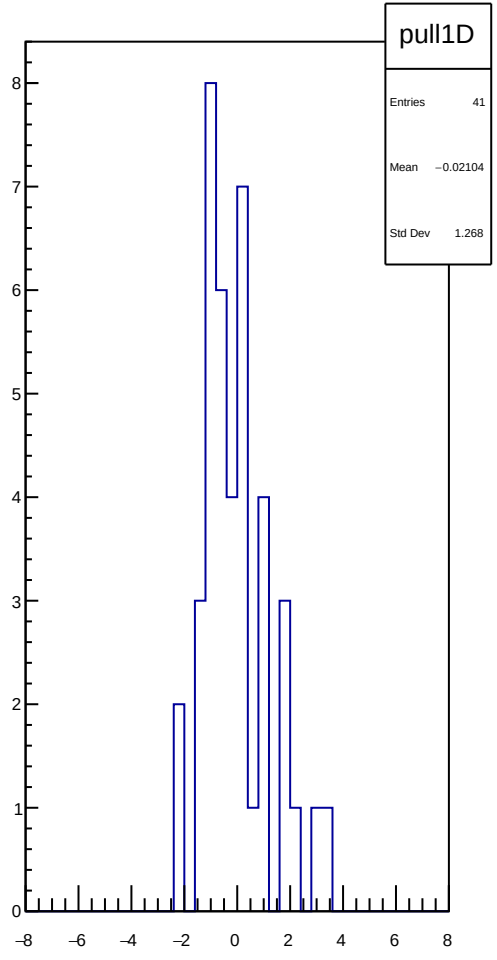
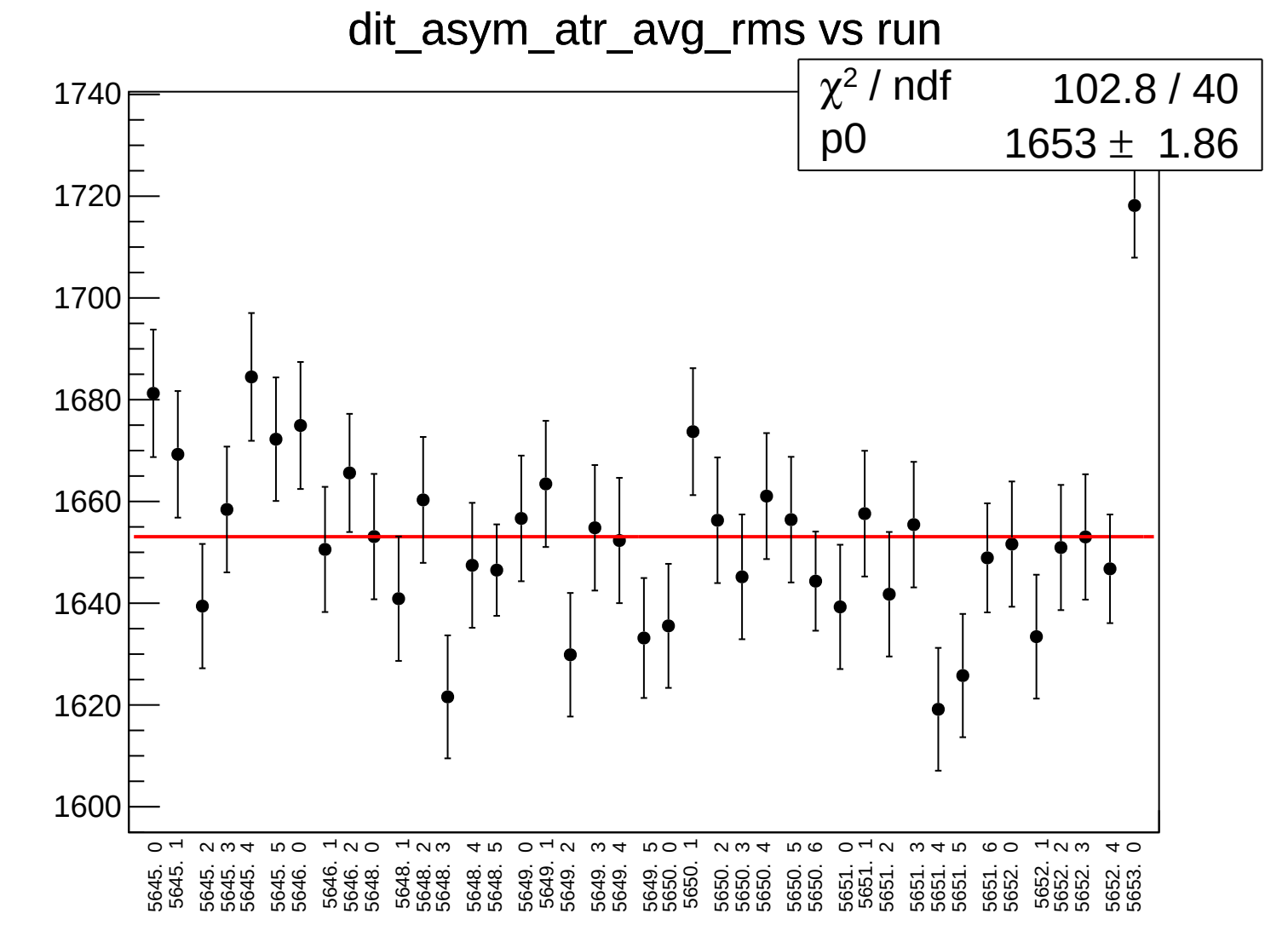
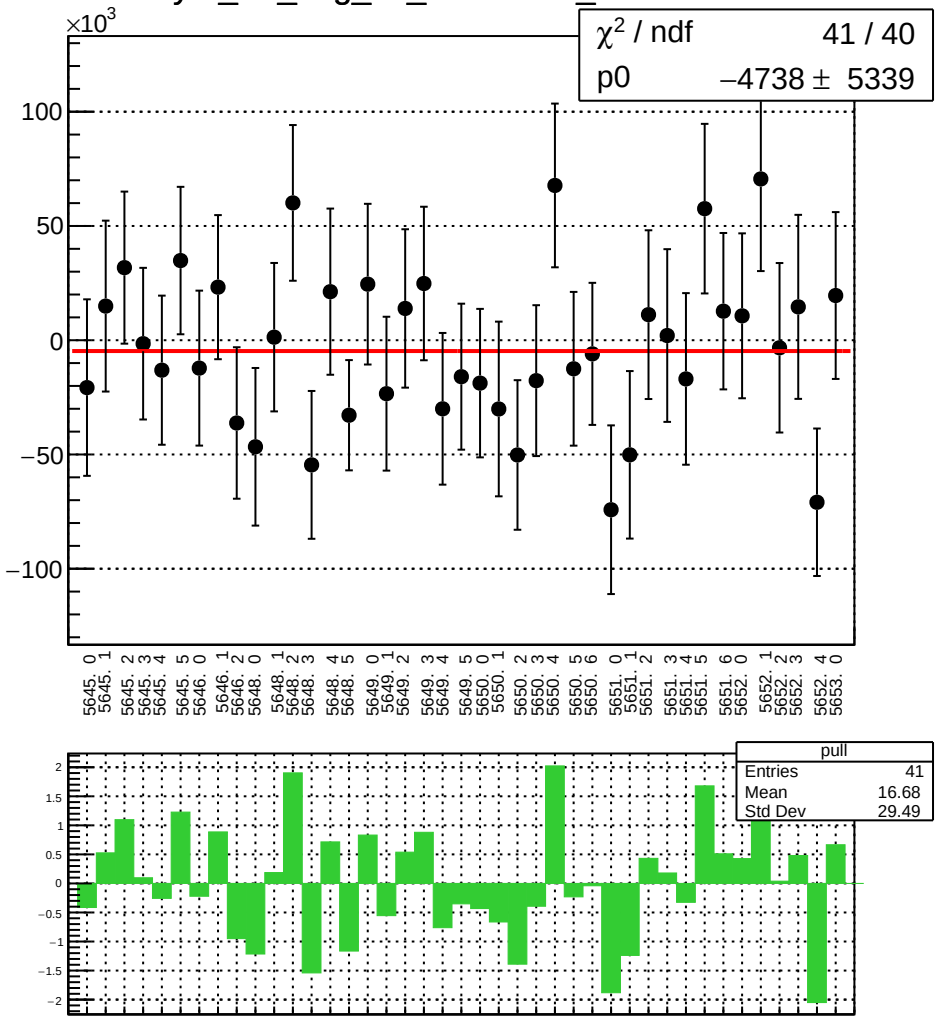
−8
−6
−4
−2
0
2
4
6
8

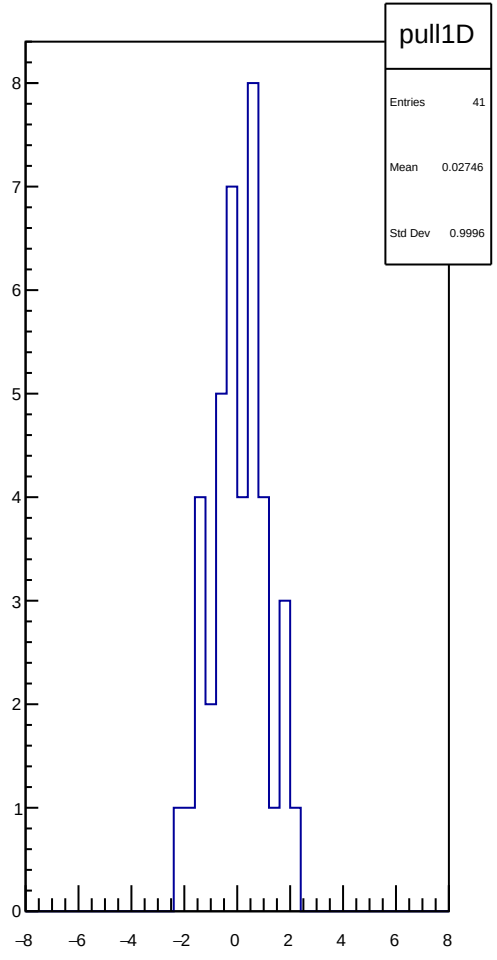

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3858 / 40
p0 3414 ± 3.849
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

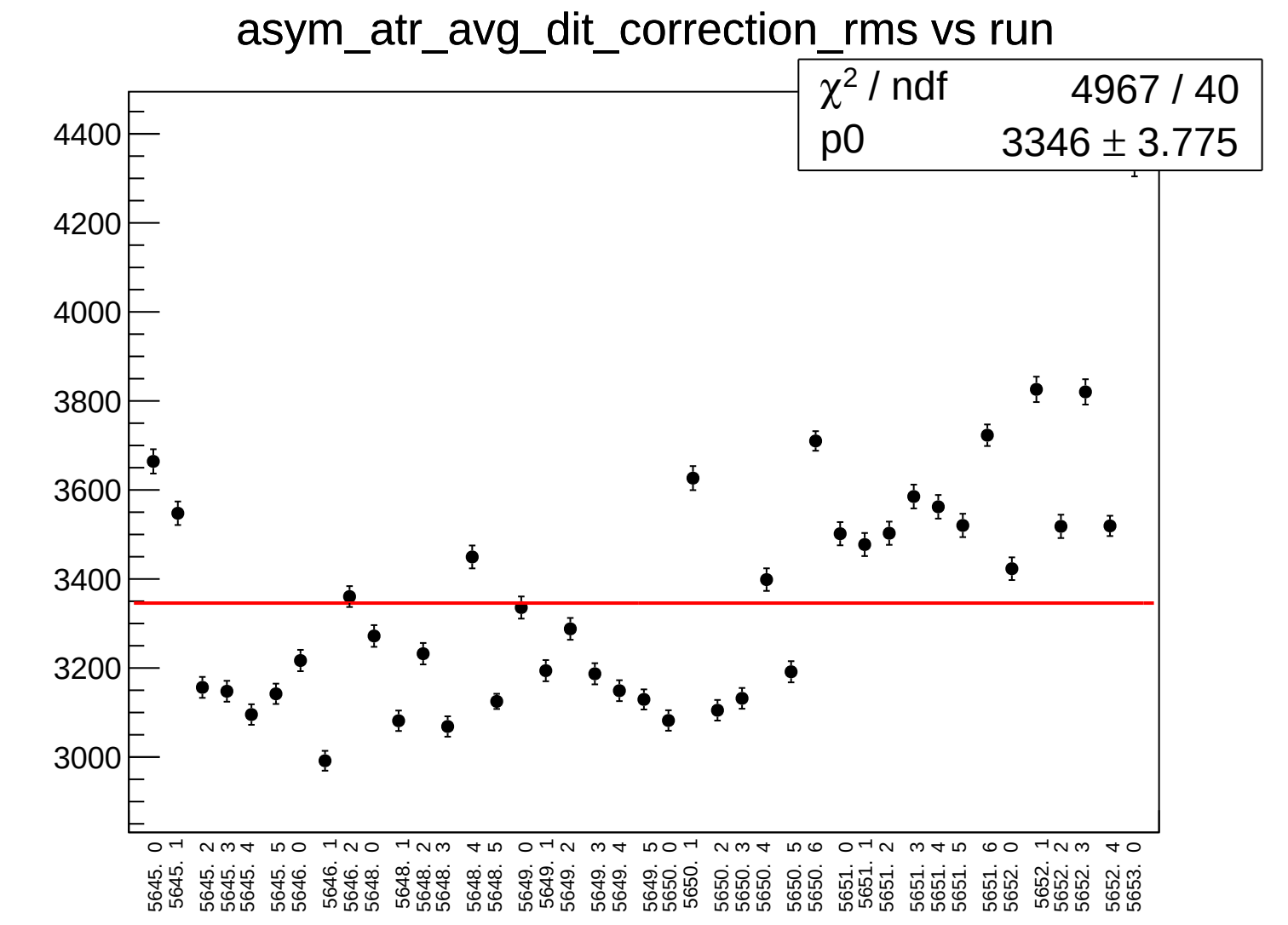

dit_asym_atr_avg_mean vs run
χ² / ndf 65.96 / 40
p0 980.6 ± 2630
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.677
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.02104
Std Dev 1.268
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr_avg_rms vs run
χ² / ndf 102.8 / 40
p0 1653 ± 1.86
1740
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 41 / 40
p0 −4738 ± 5339
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 16.68
Std Dev 29.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02746
Std Dev 0.9996
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 4967 / 40
p0 3346 ± 3.775
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
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5652. 1
5652. 2
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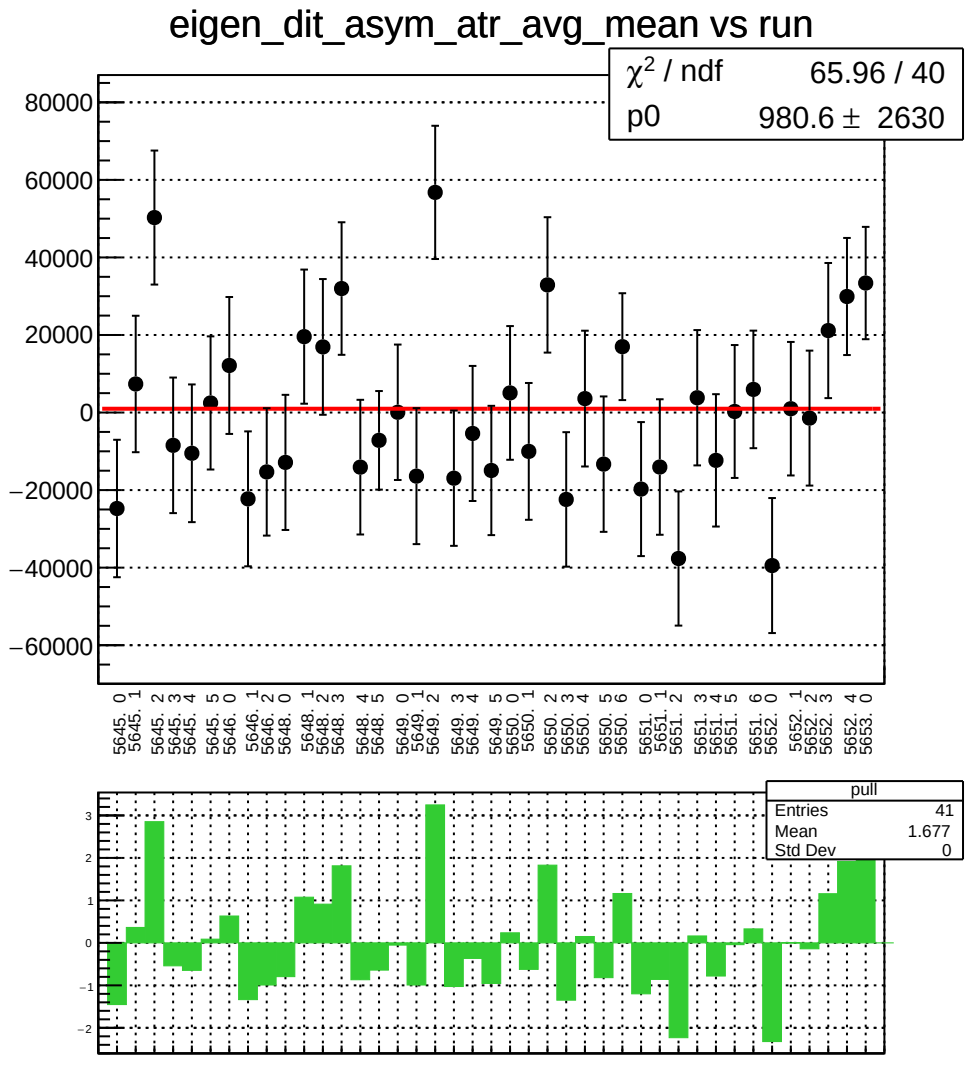
5652. 4
5653. 0


eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 65.96 / 40
p0 980.6 ± 2630
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5650. 0
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5650. 2
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5650. 6
5651. 0
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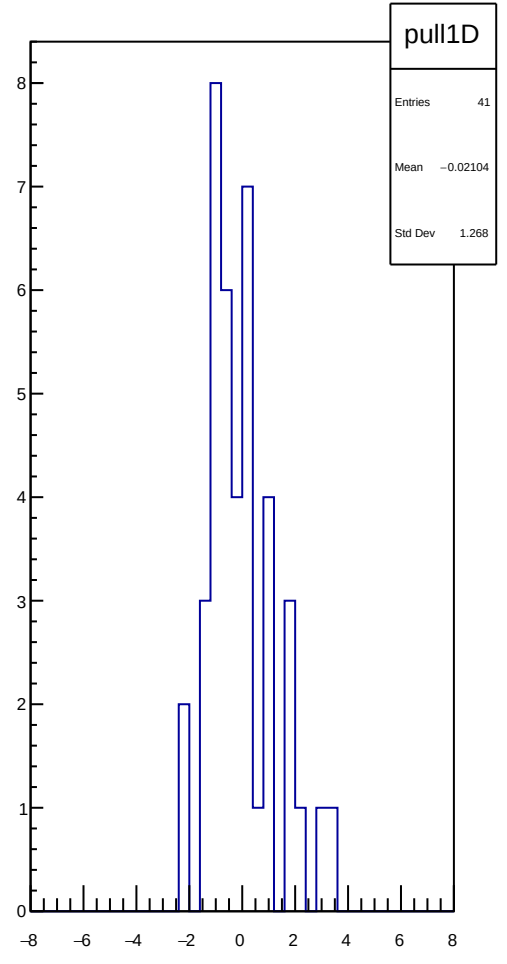
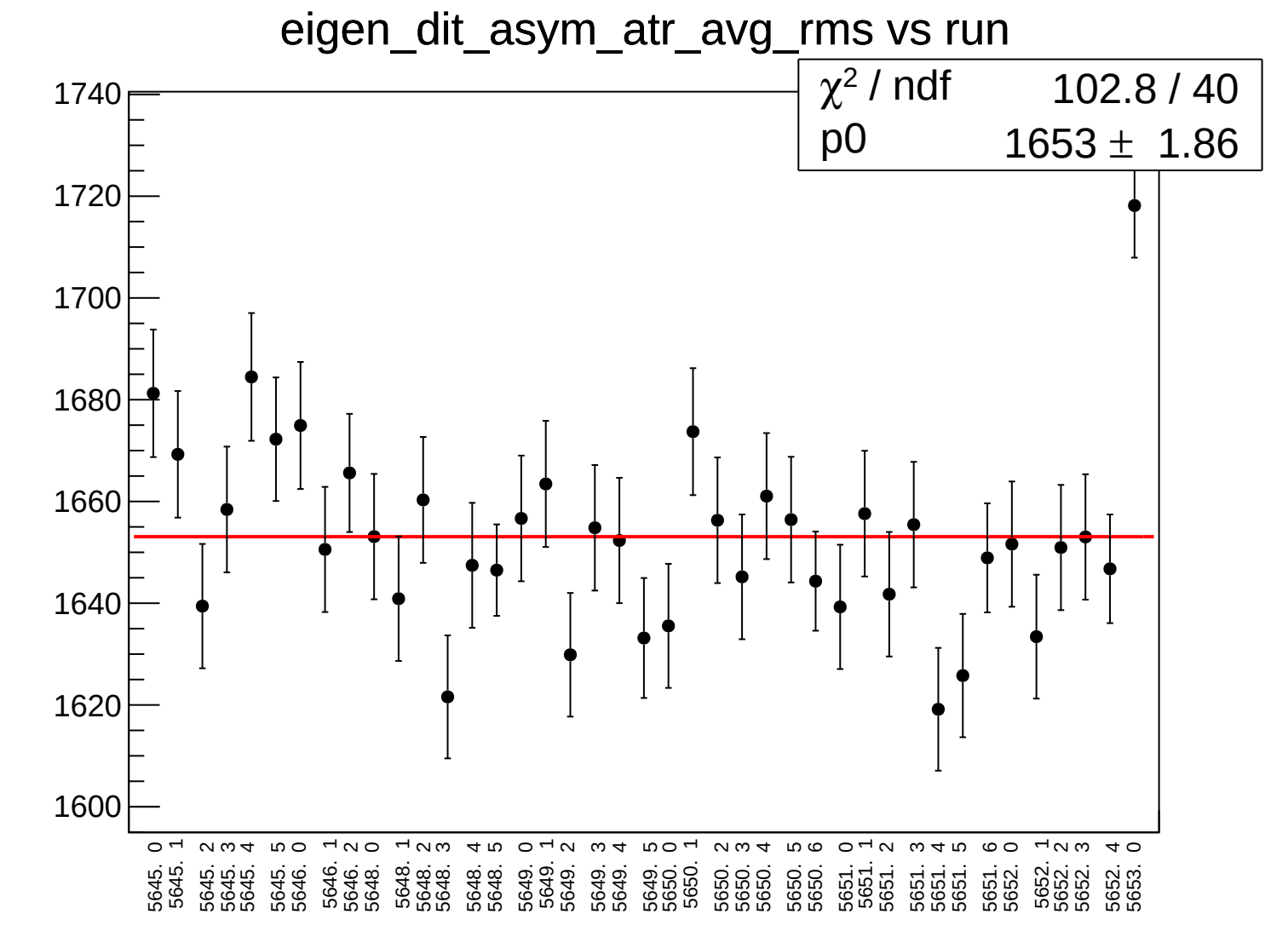
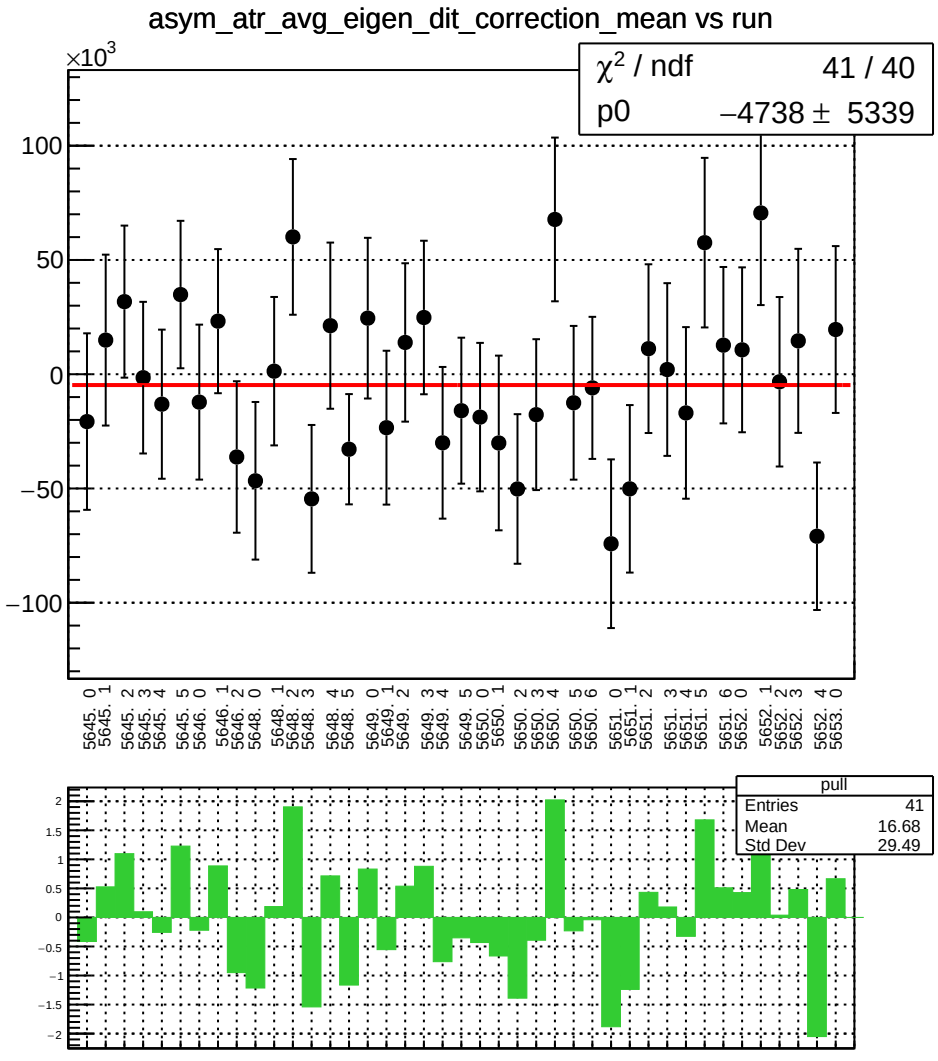
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.677
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.02104
Std Dev 1.268
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 102.8 / 40
p0 1653 ± 1.86
1740
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 41 / 40
p0 −4738 ± 5339
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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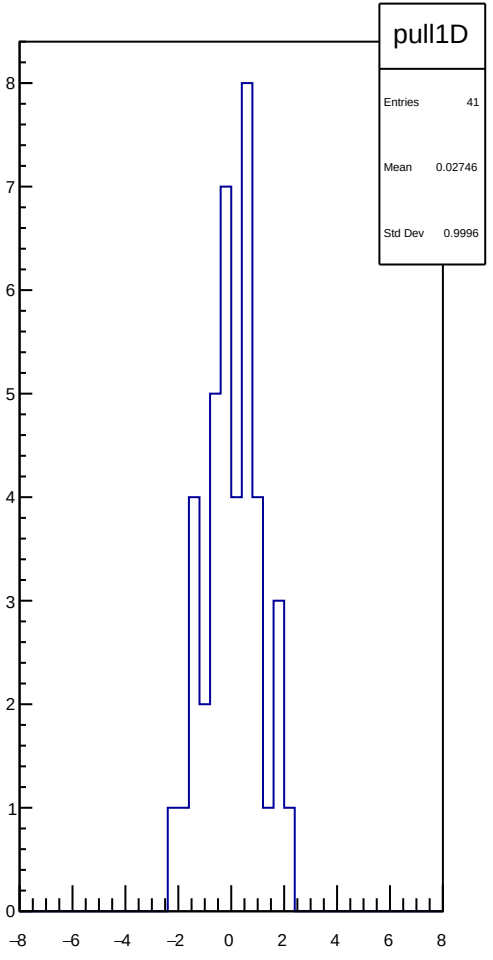
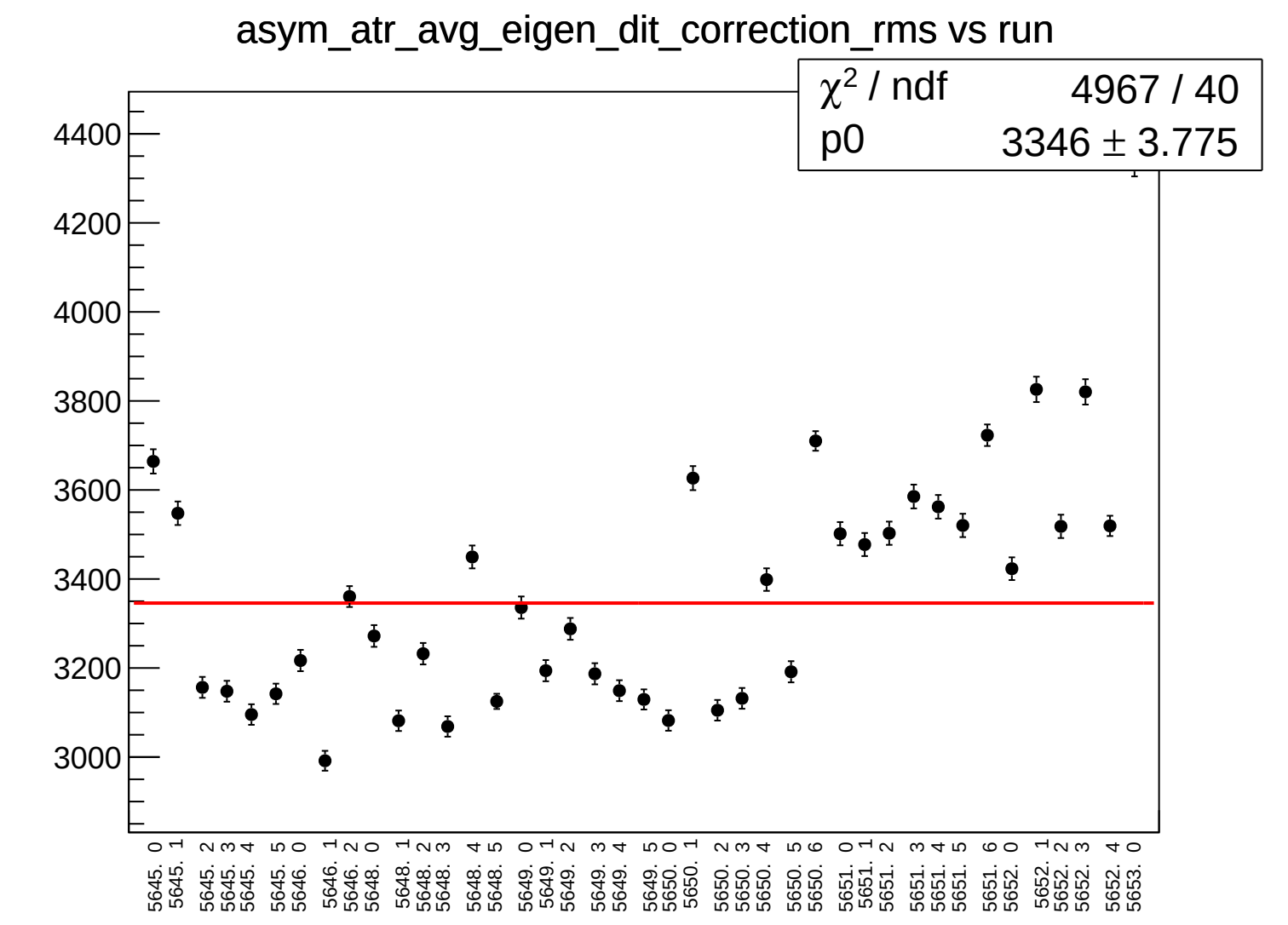
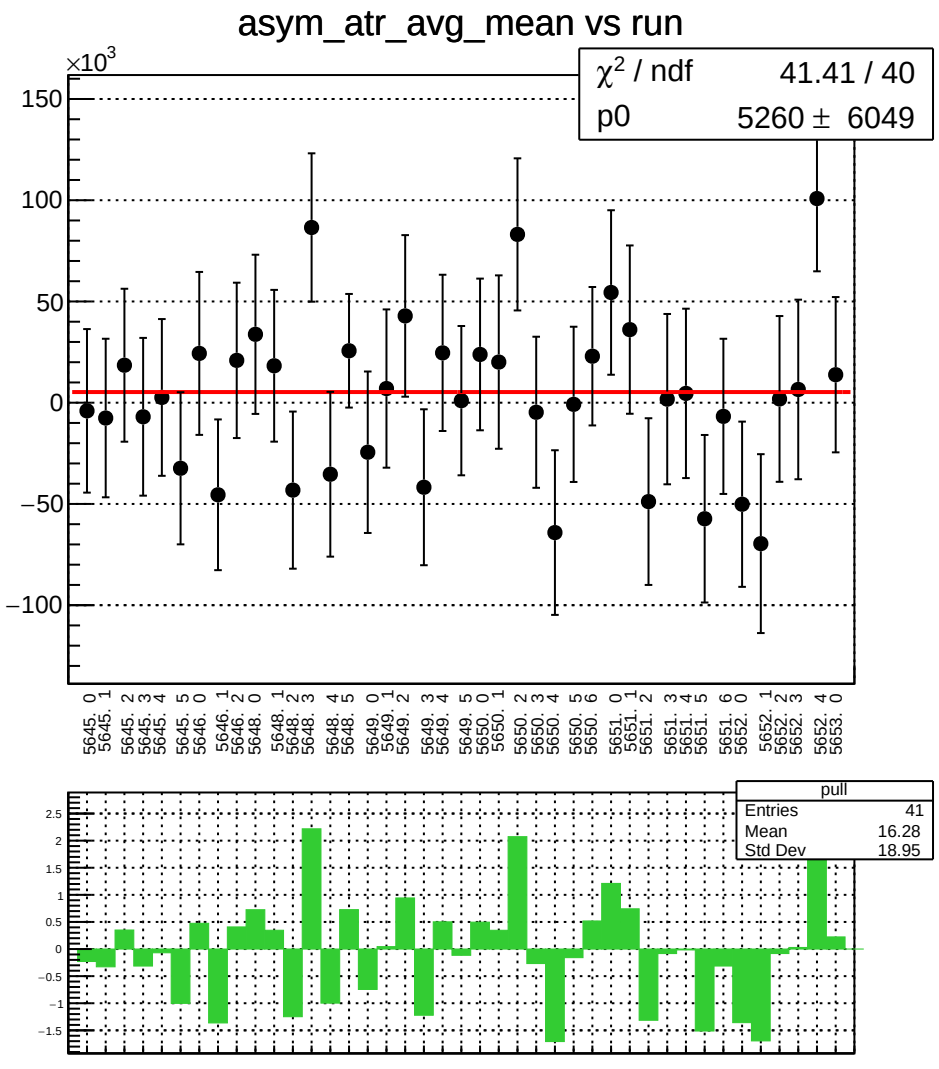
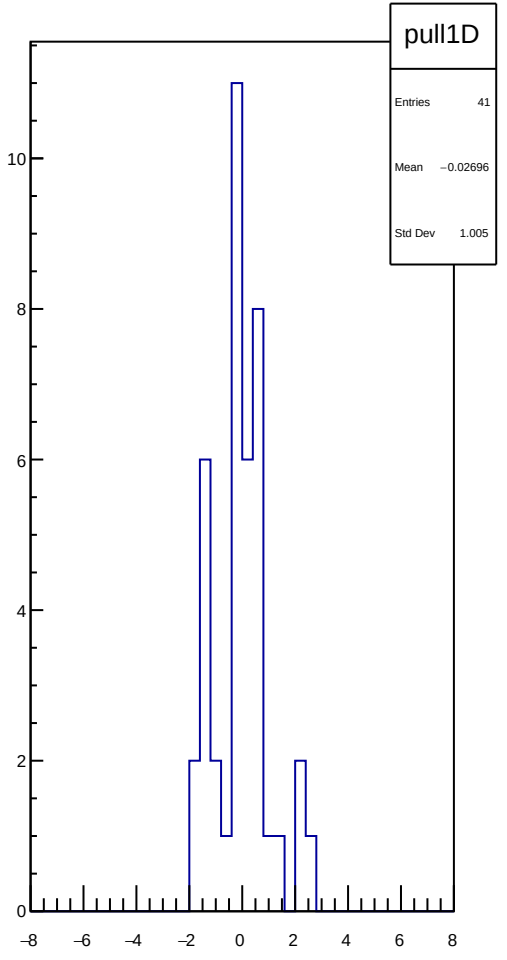
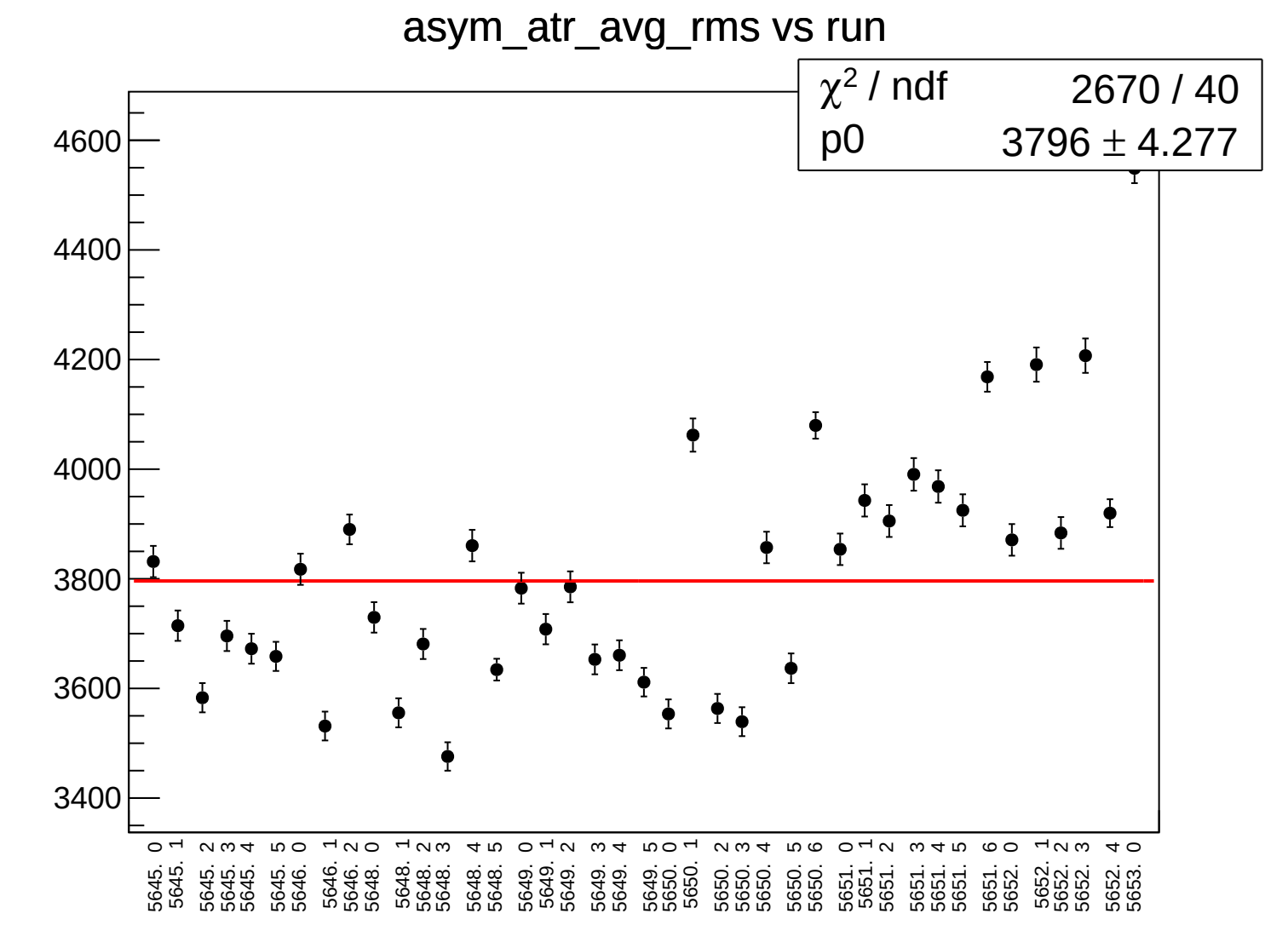
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 16.68
Std Dev 29.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

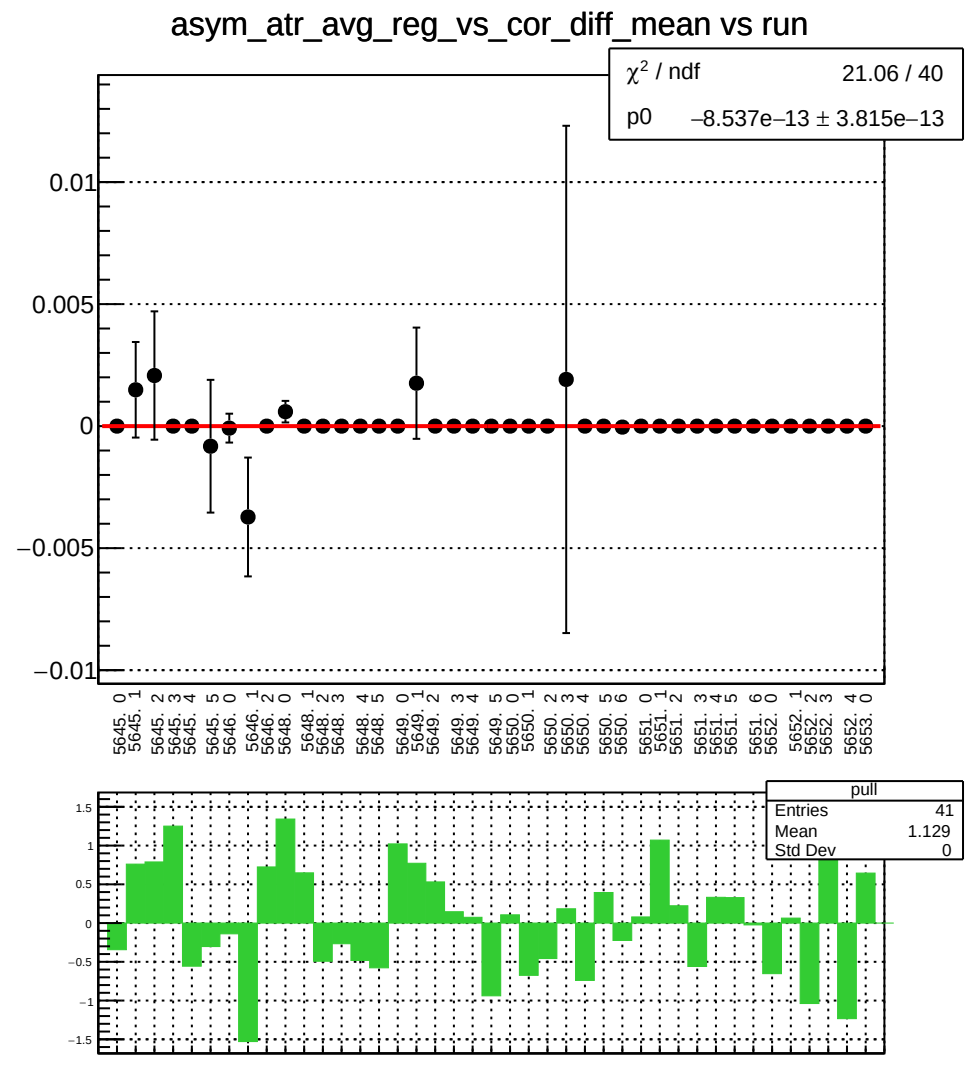

pull1D
Entries 41
Mean 0.02746
Std Dev 0.9996
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

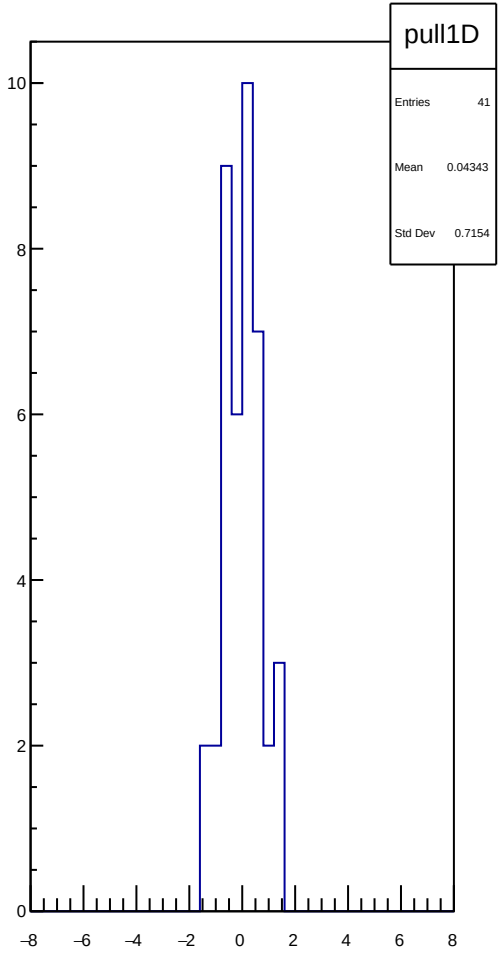

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4967 / 40
p0 3346 ± 3.775
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

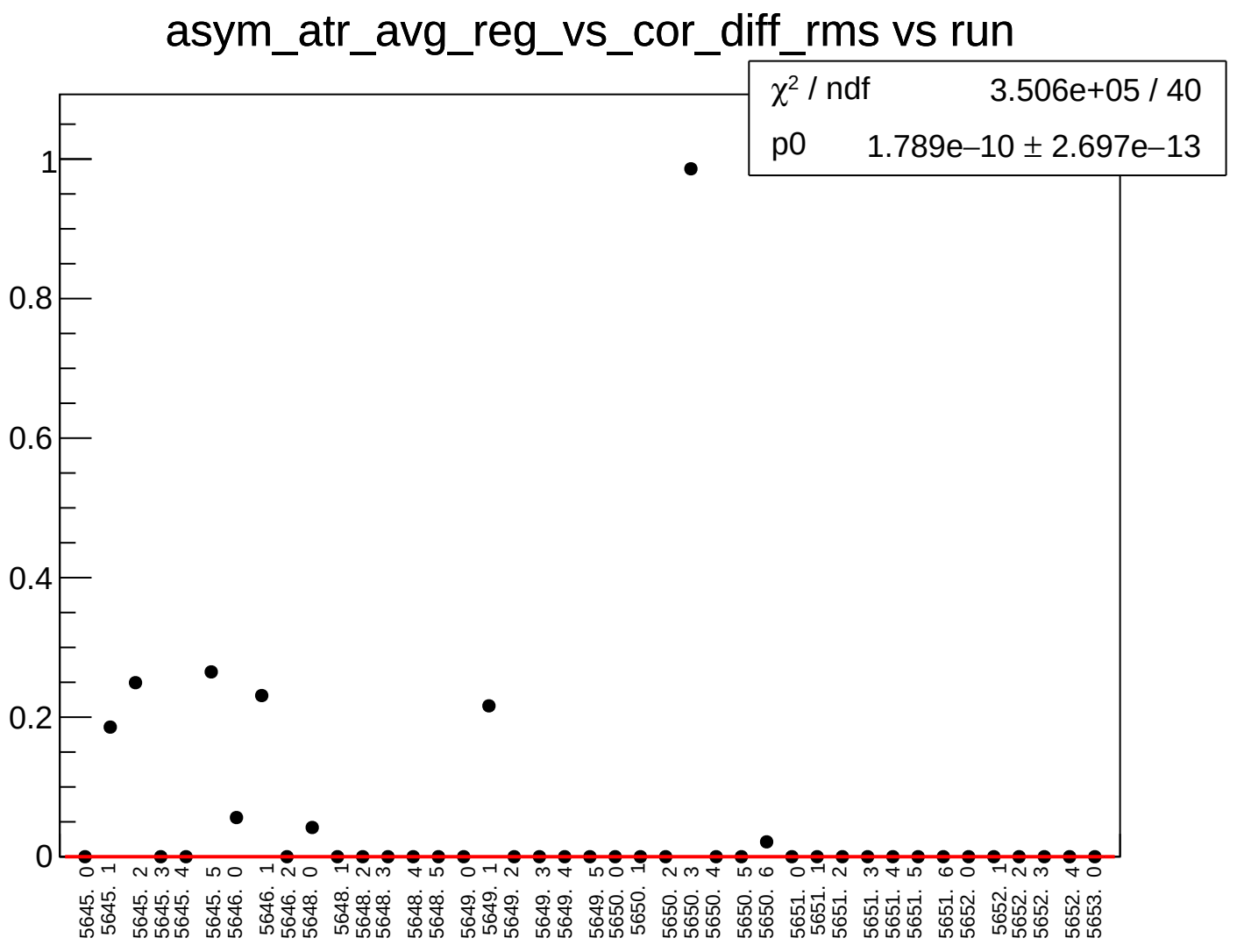

asym_atr_avg_mean vs run
×10^3
χ² / ndf 41.41 / 40
p0 5260 ± 6049
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 16.28
Std Dev 18.95
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

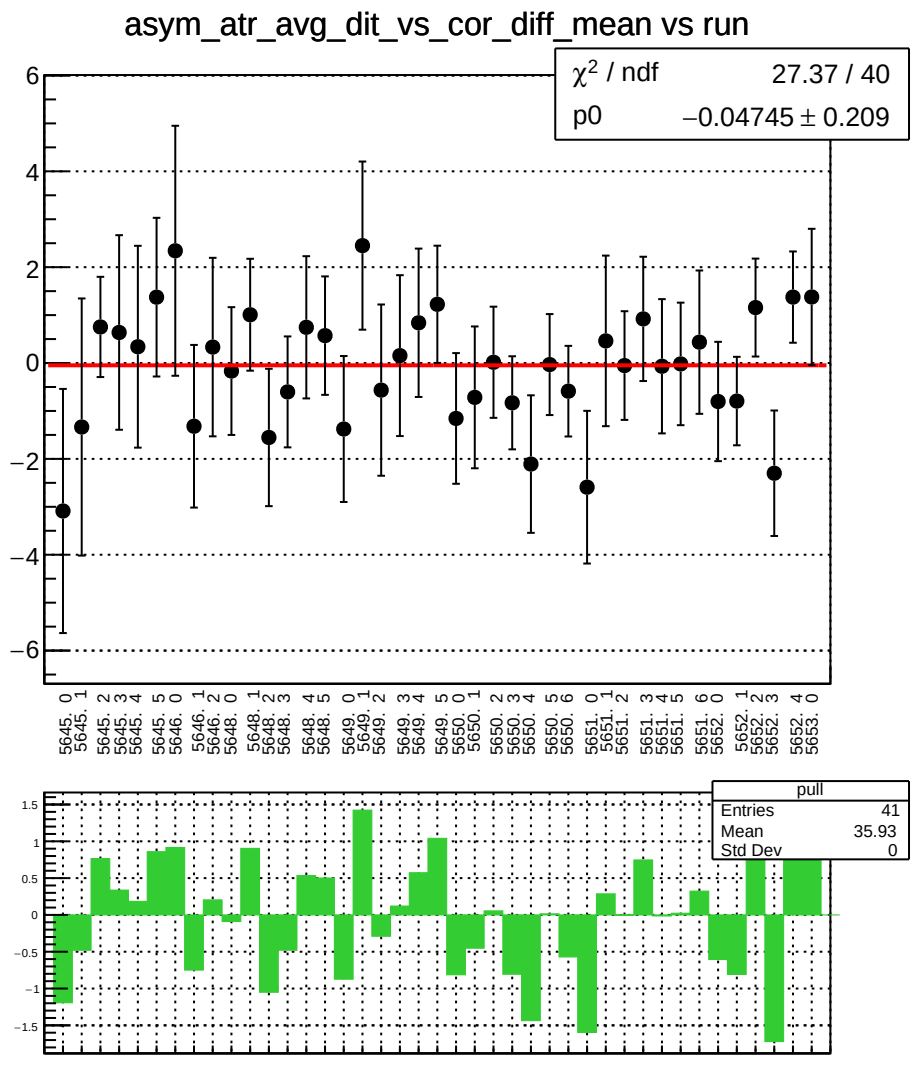

pull1D
Entries 41
Mean −0.02696
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

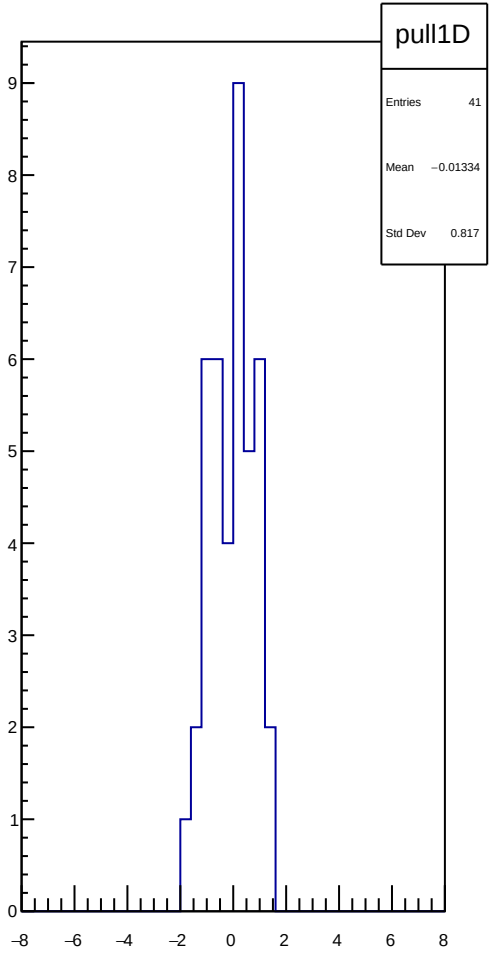

asym_atr_avg_rms vs run
χ² / ndf 2670 / 40
p0 3796 ± 4.277
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

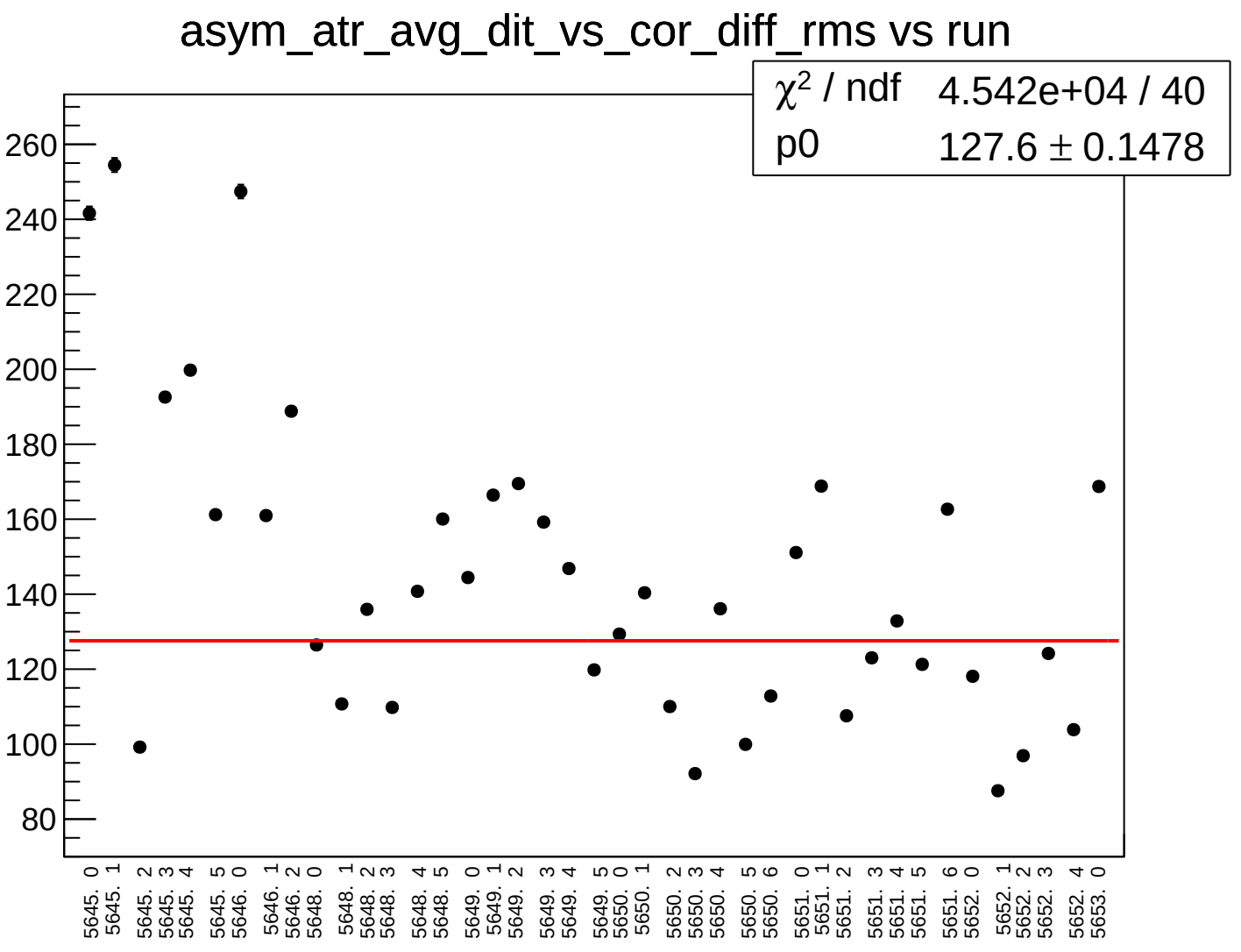

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.06 / 40
p0 −8.537e−13 ± 3.815e−13
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.129
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

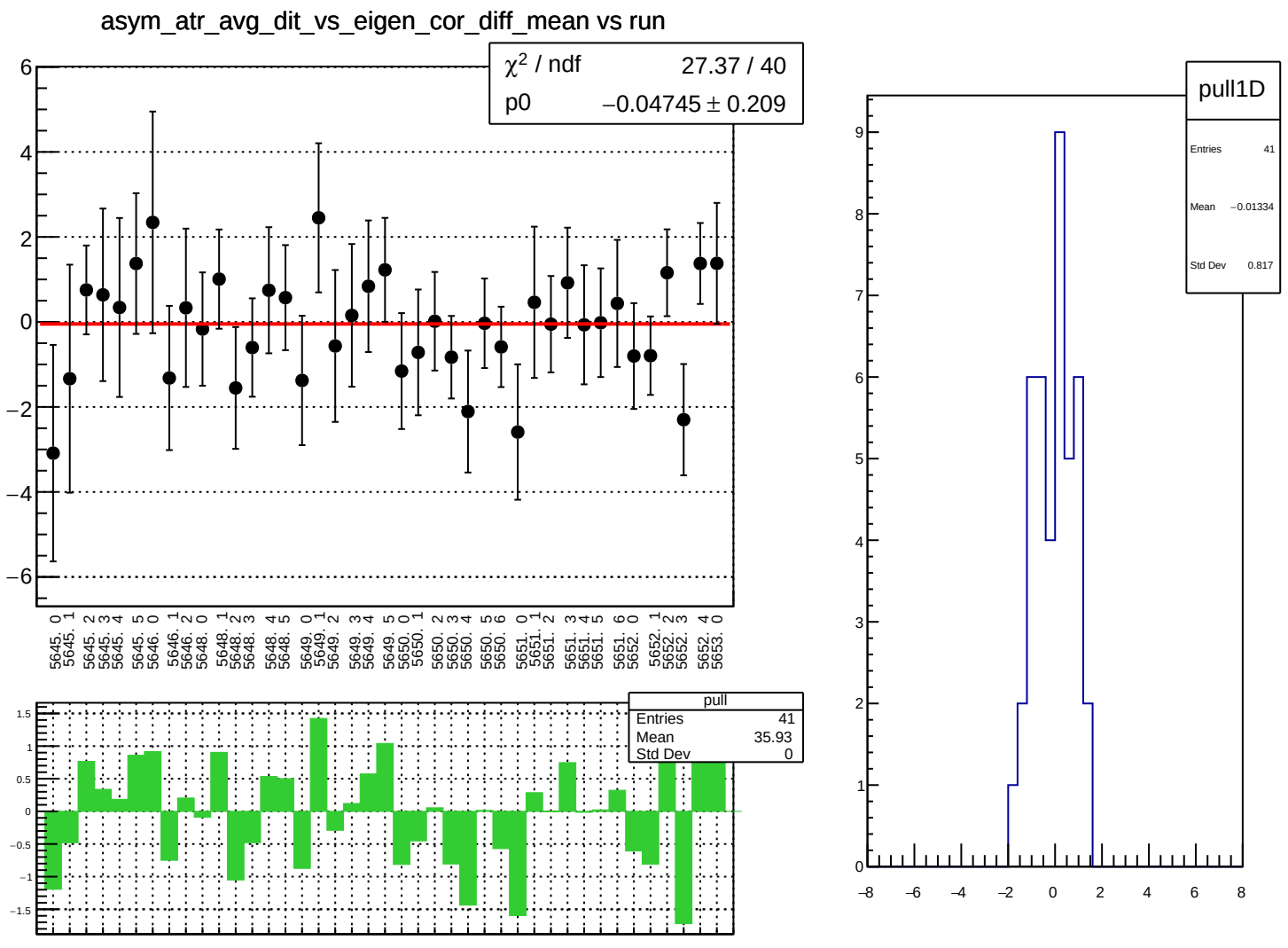

pull1D
Entries 41
Mean 0.04343
Std Dev 0.7154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

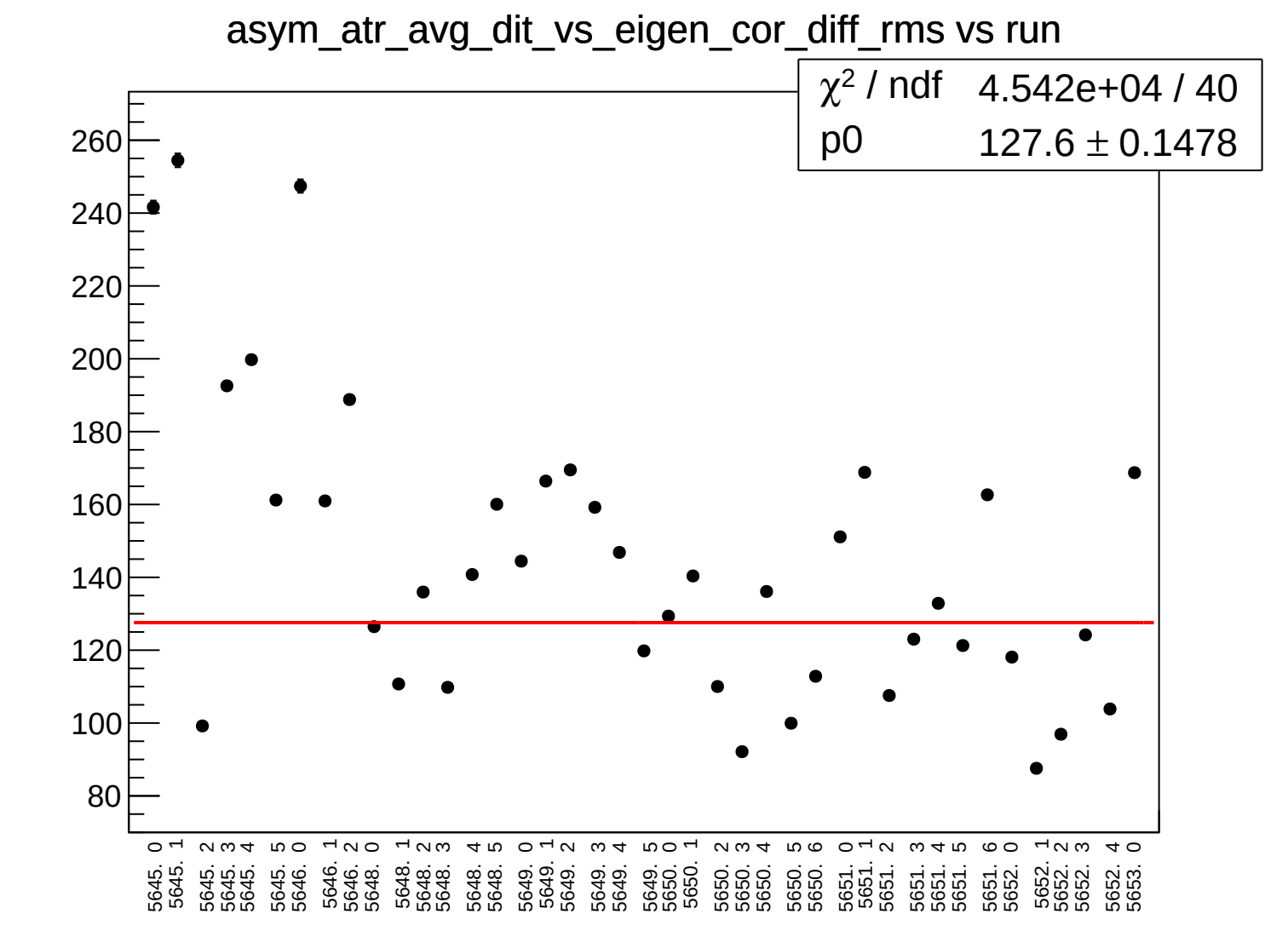

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.506e+05 / 40
p0 1.789e−10 ± 2.697e−13
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

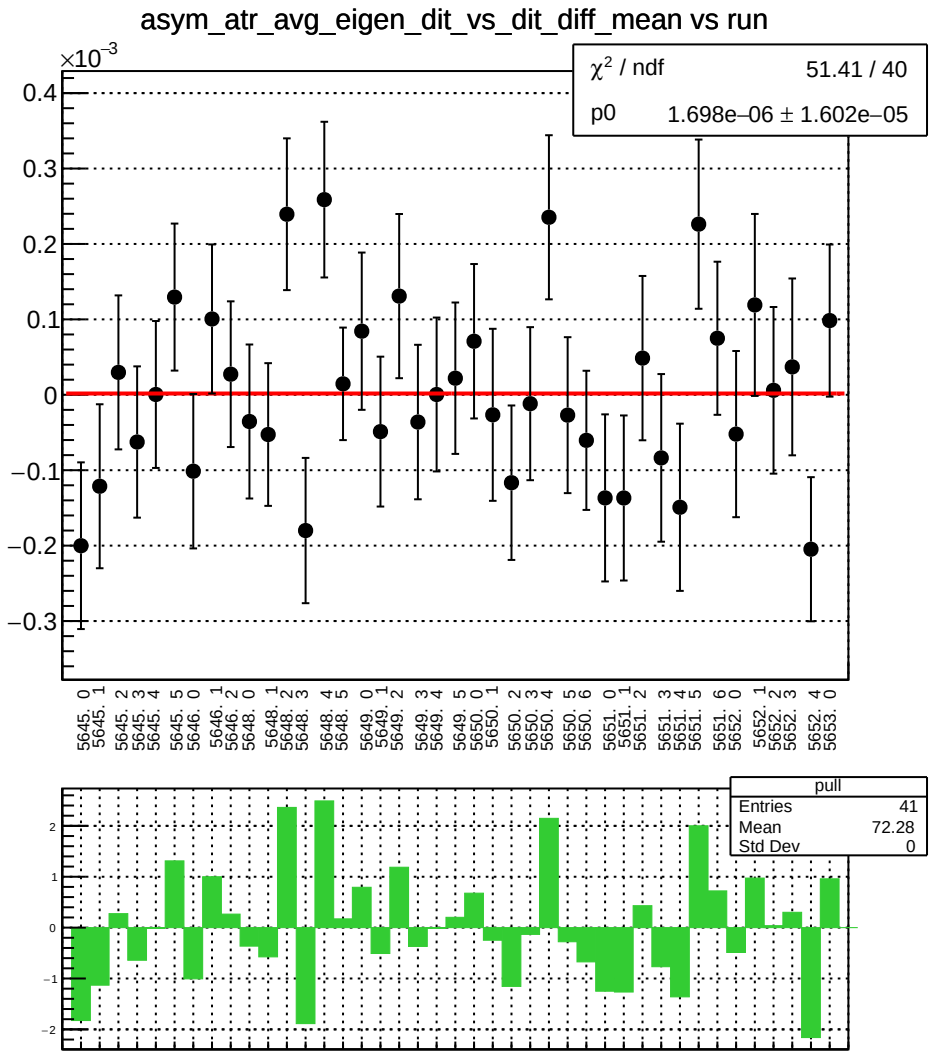

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.37 / 40
p0 −0.04745 ± 0.209
pull
Entries 41
Mean 35.93
Std Dev 0

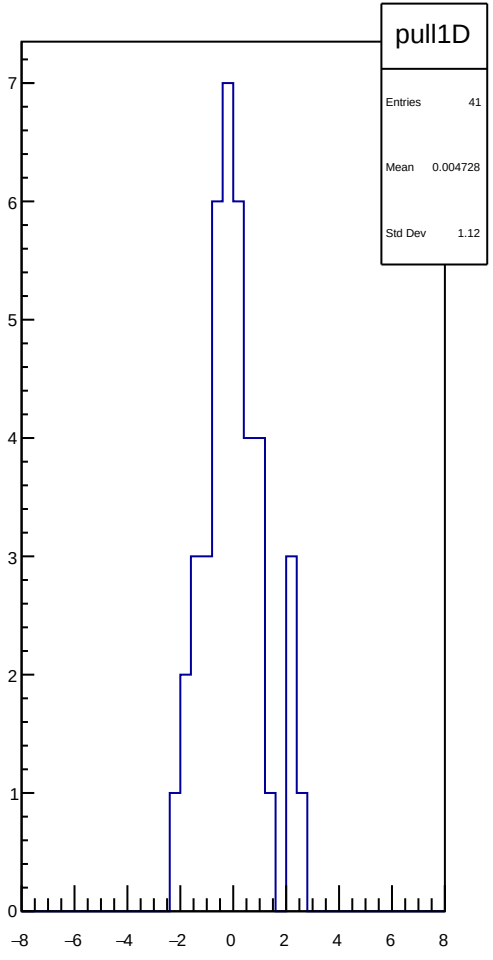

pull1D
Entries 41
Mean −0.01334
Std Dev 0.817

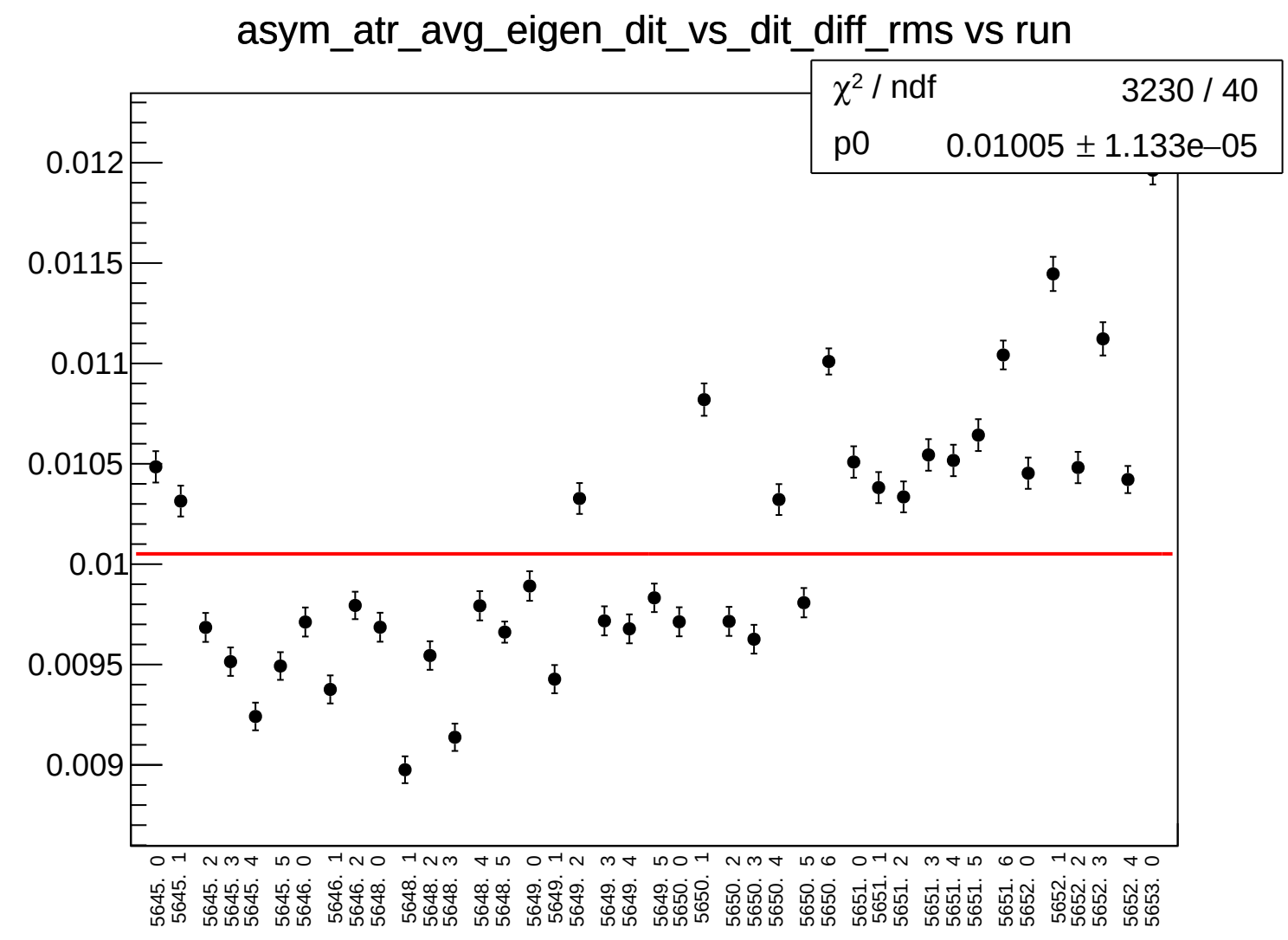

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.542e+04 / 40
p0 127.6 ± 0.1478
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

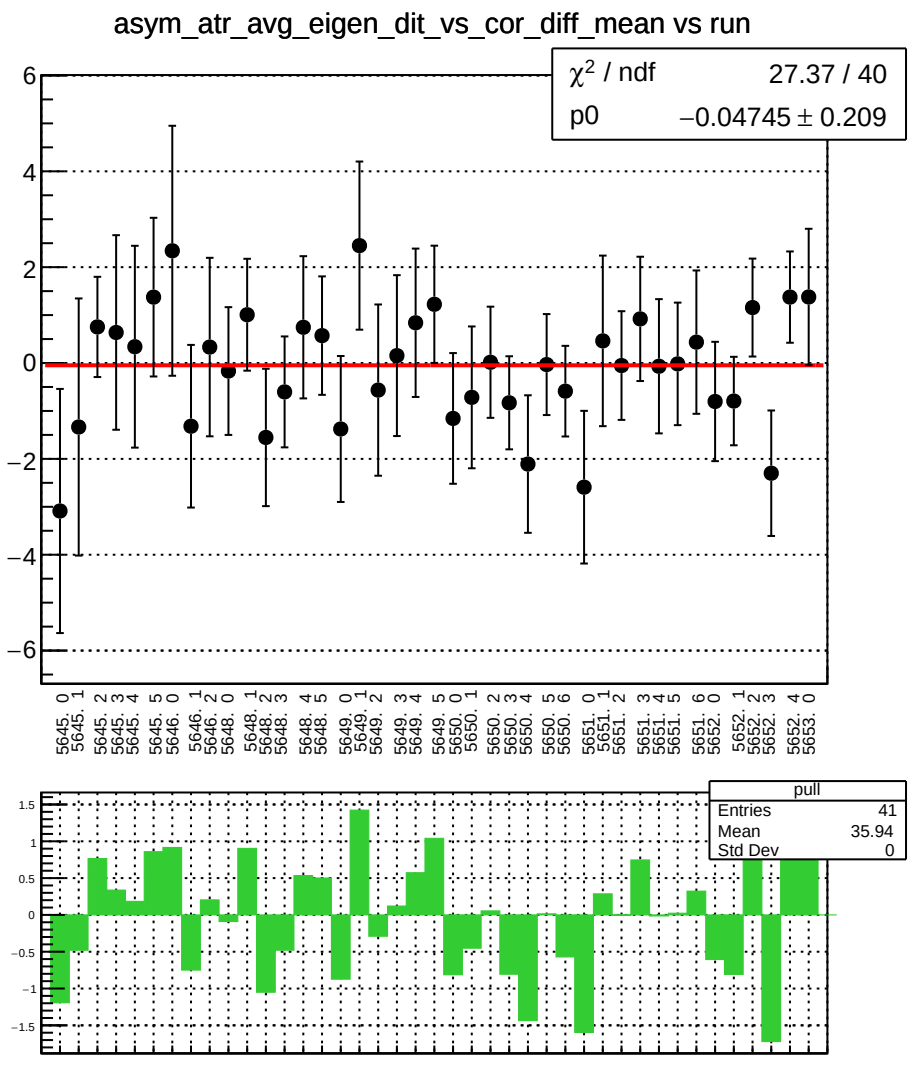

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.37 / 40
p0 −0.04745 ± 0.209
pull
Entries 41
Mean 35.93
Std Dev 0
pull1D
Entries 41
Mean −0.01334
Std Dev 0.817

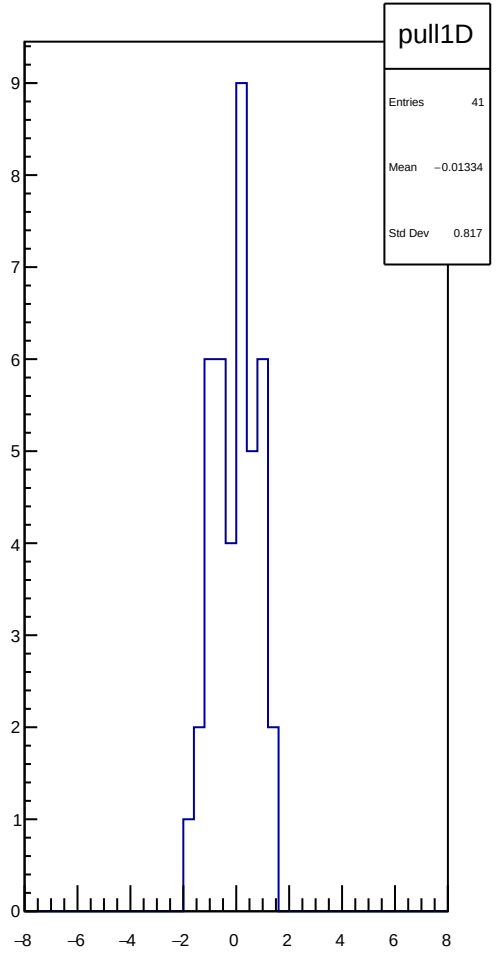

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.542e+04 / 40
p0 127.6 ± 0.1478
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

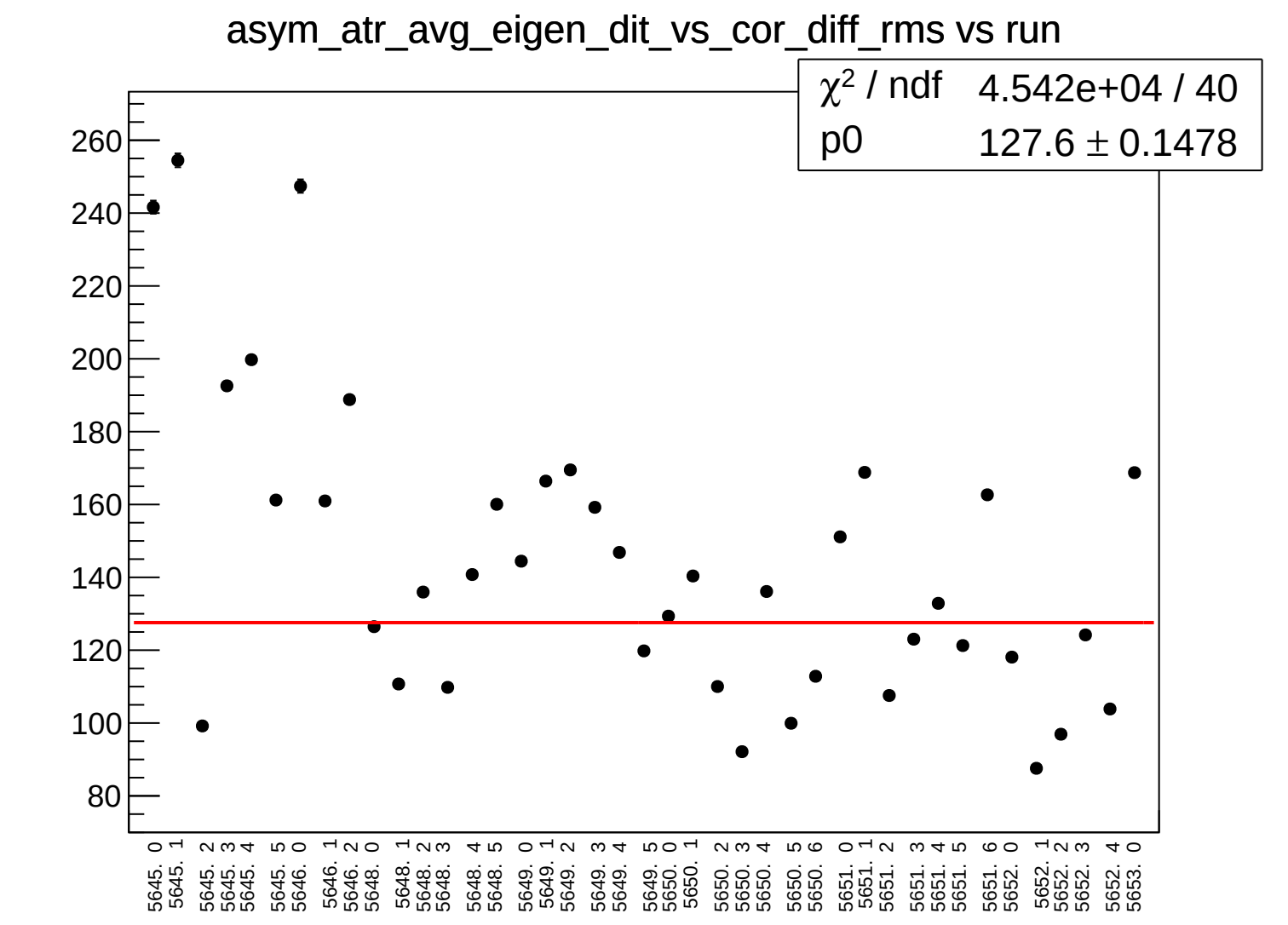

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.41 / 40
p0 1.698e−06 ± 1.602e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 72.28
Std Dev 0
2
1
0
−1
−2

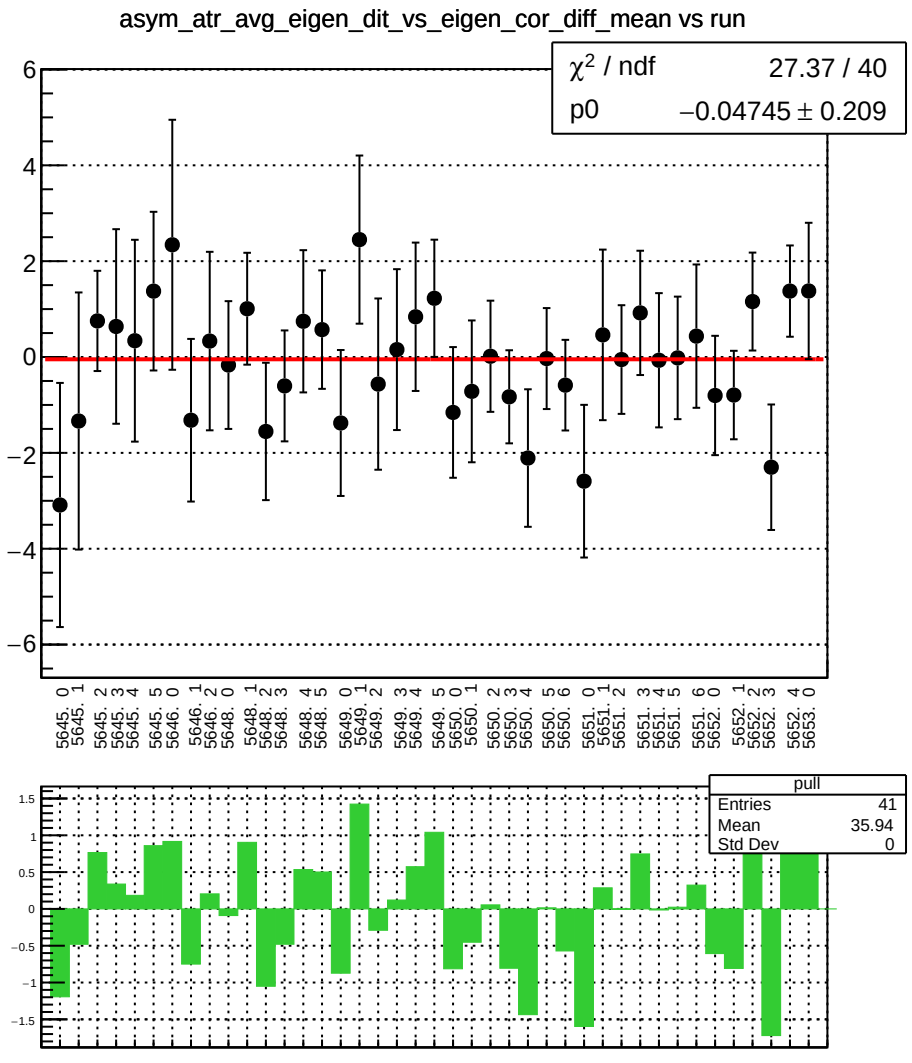

pull1D
Entries 41
Mean 0.004728
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

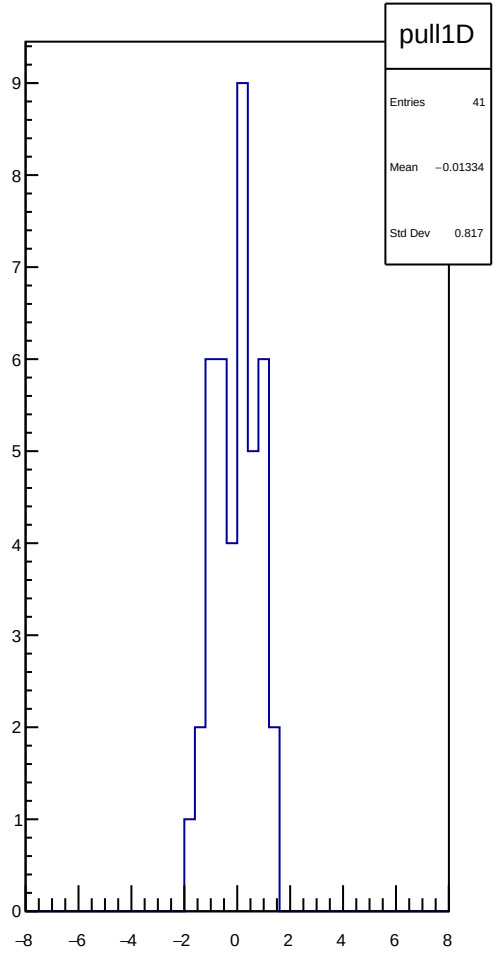

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3230 / 40
p0 0.01005 ± 1.133e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

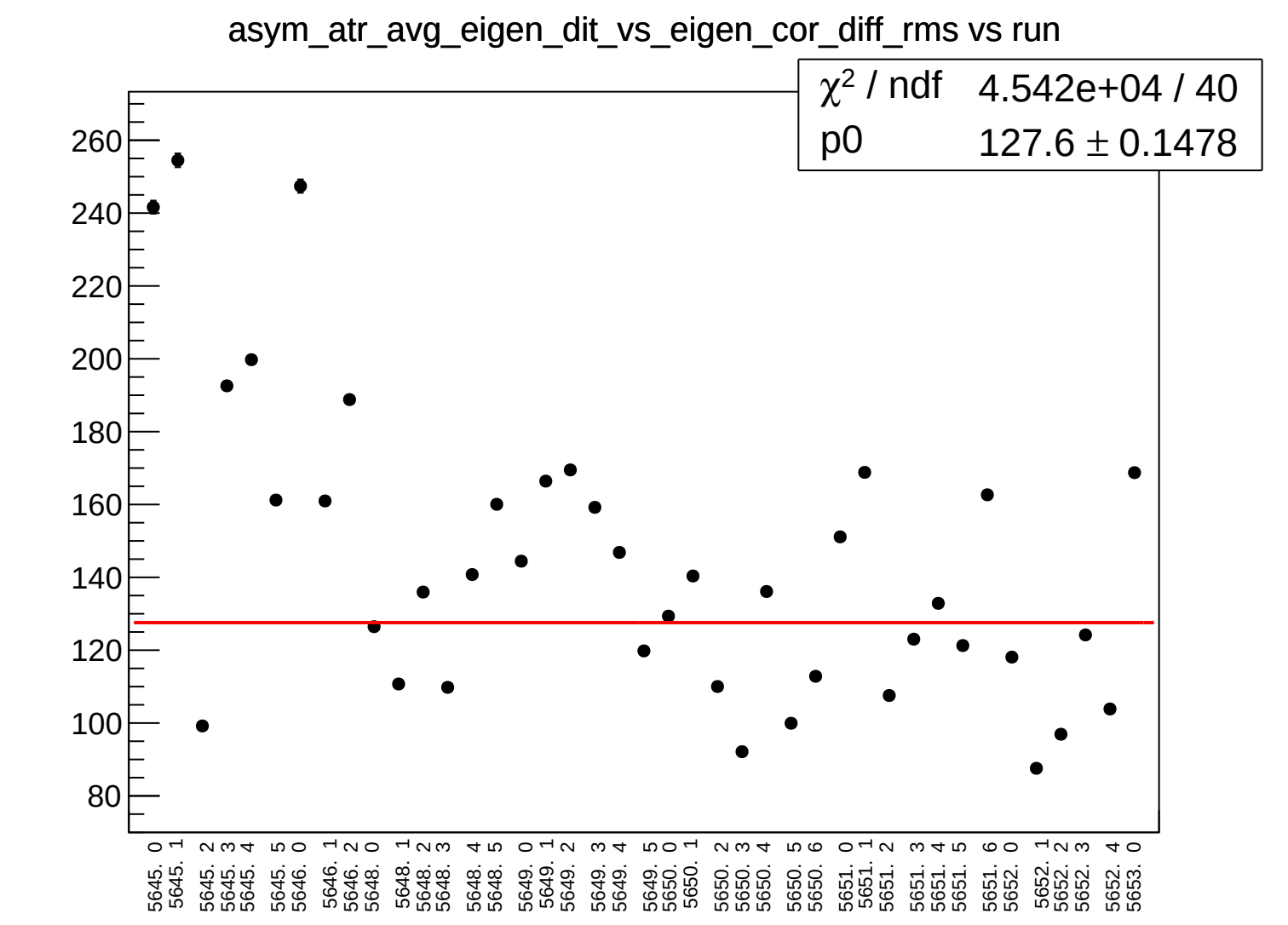

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.37 / 40
p0 −0.04745 ± 0.209
pull
Entries 41
Mean 35.94
Std Dev 0

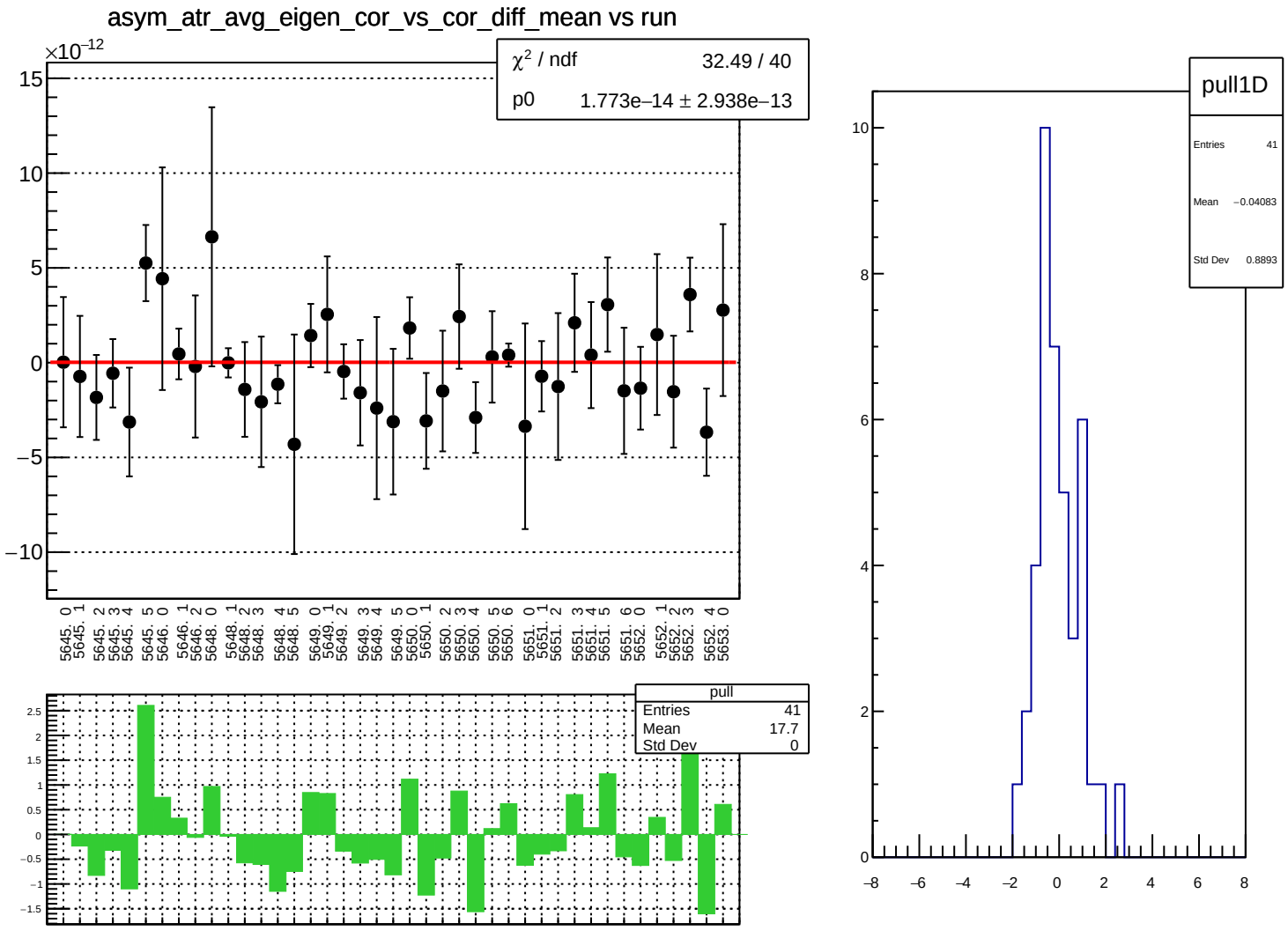

pull1D
Entries 41
Mean −0.01334
Std Dev 0.817

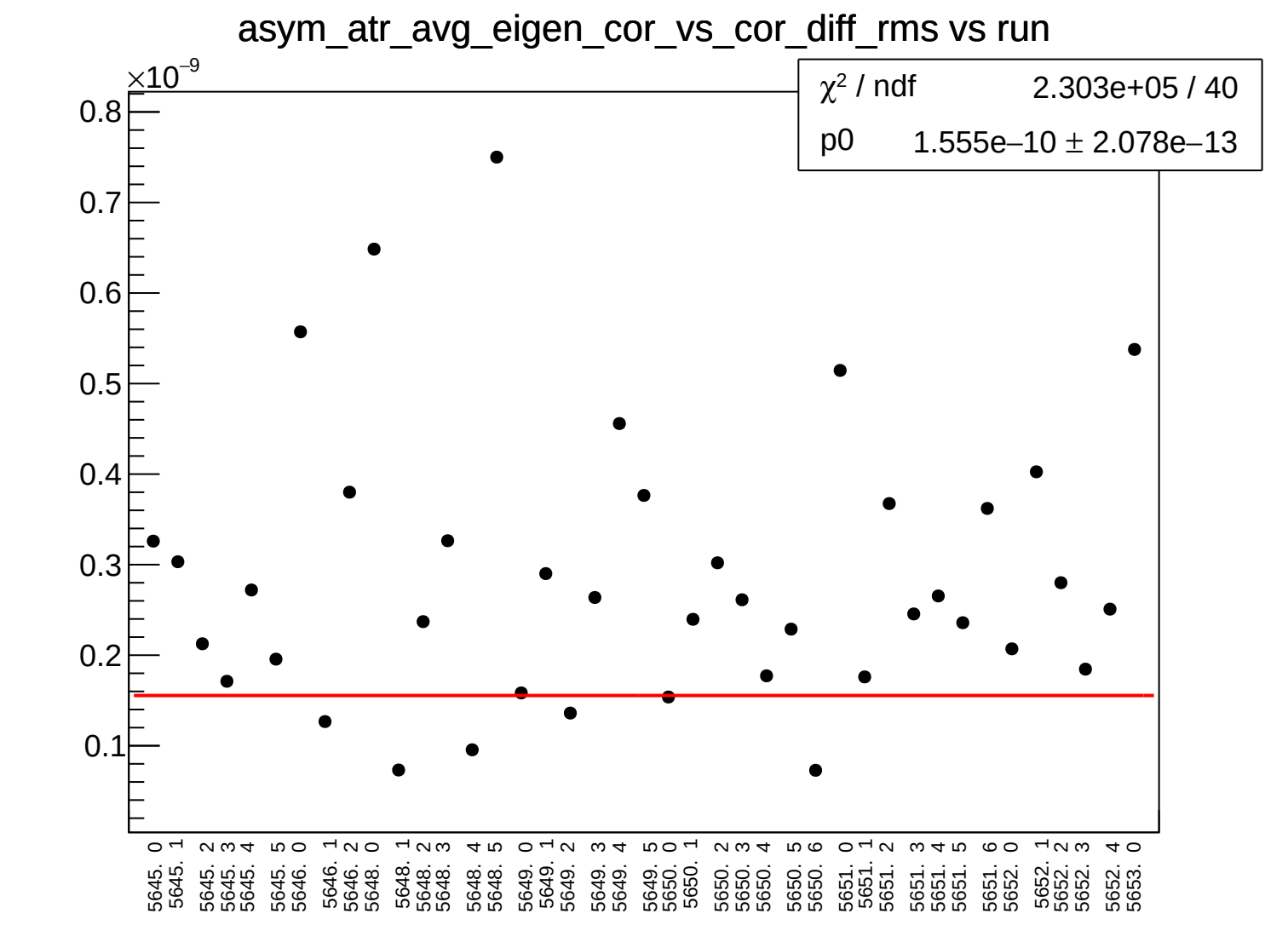

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.542e+04 / 40
p0 127.6 ± 0.1478
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

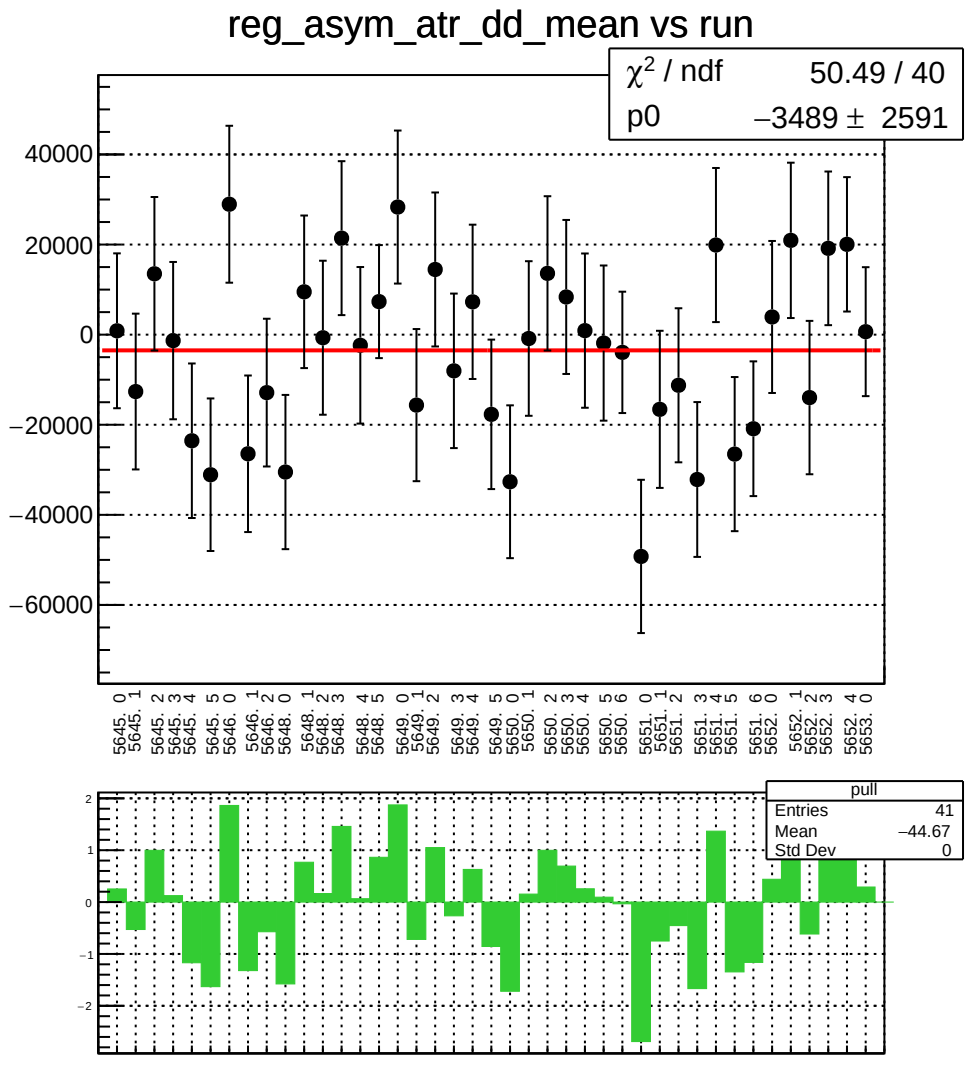

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.37 / 40
p0 −0.04745 ± 0.209
pull
Entries 41
Mean 35.94
Std Dev 0

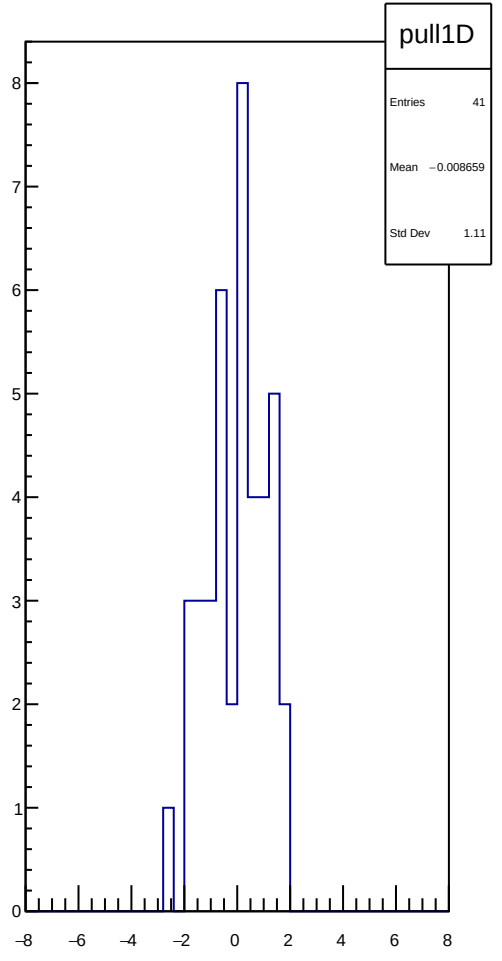

pull1D
Entries 41
Mean −0.01334
Std Dev 0.817

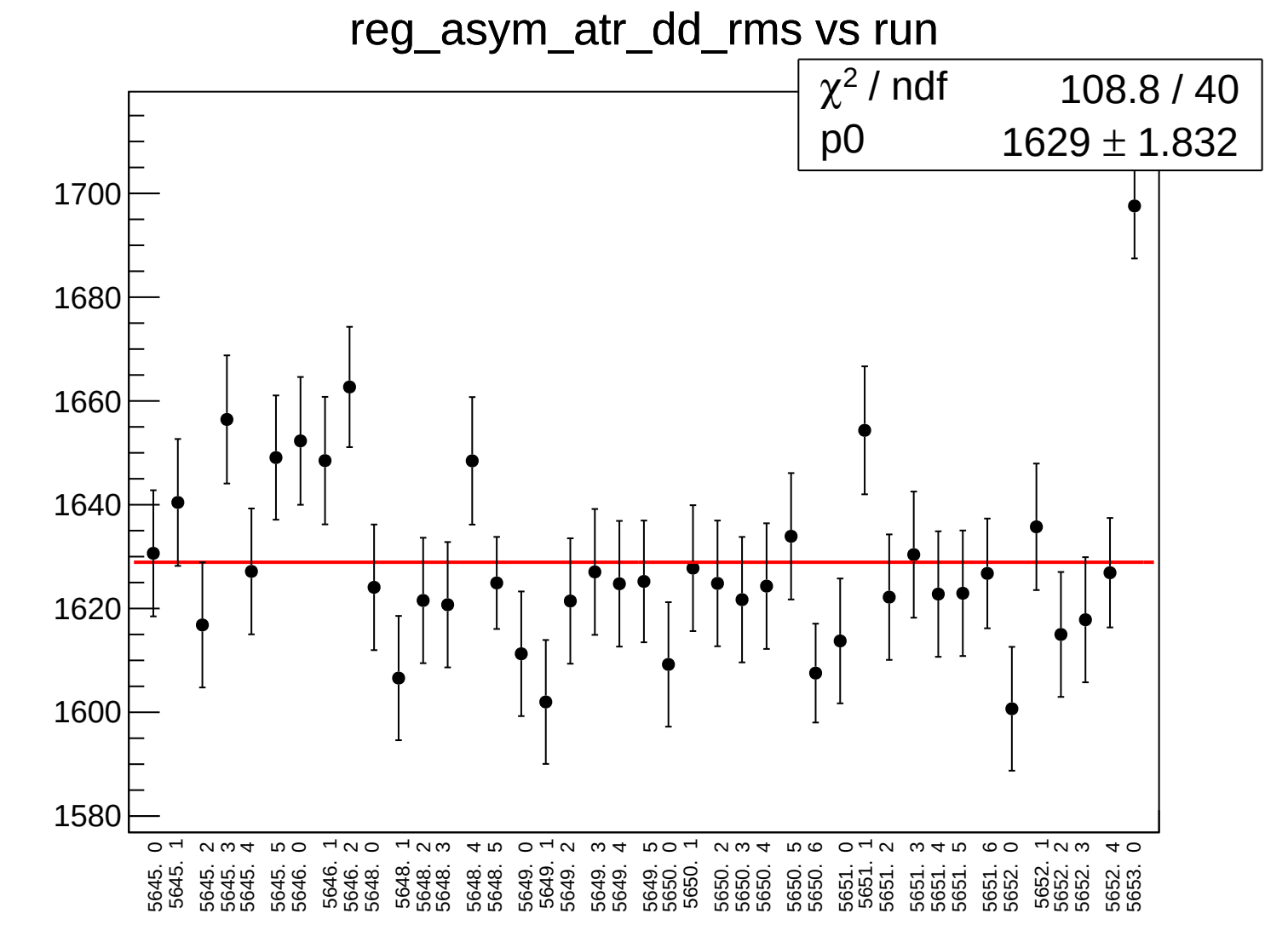

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.542e+04 / 40
p0 127.6 ± 0.1478
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

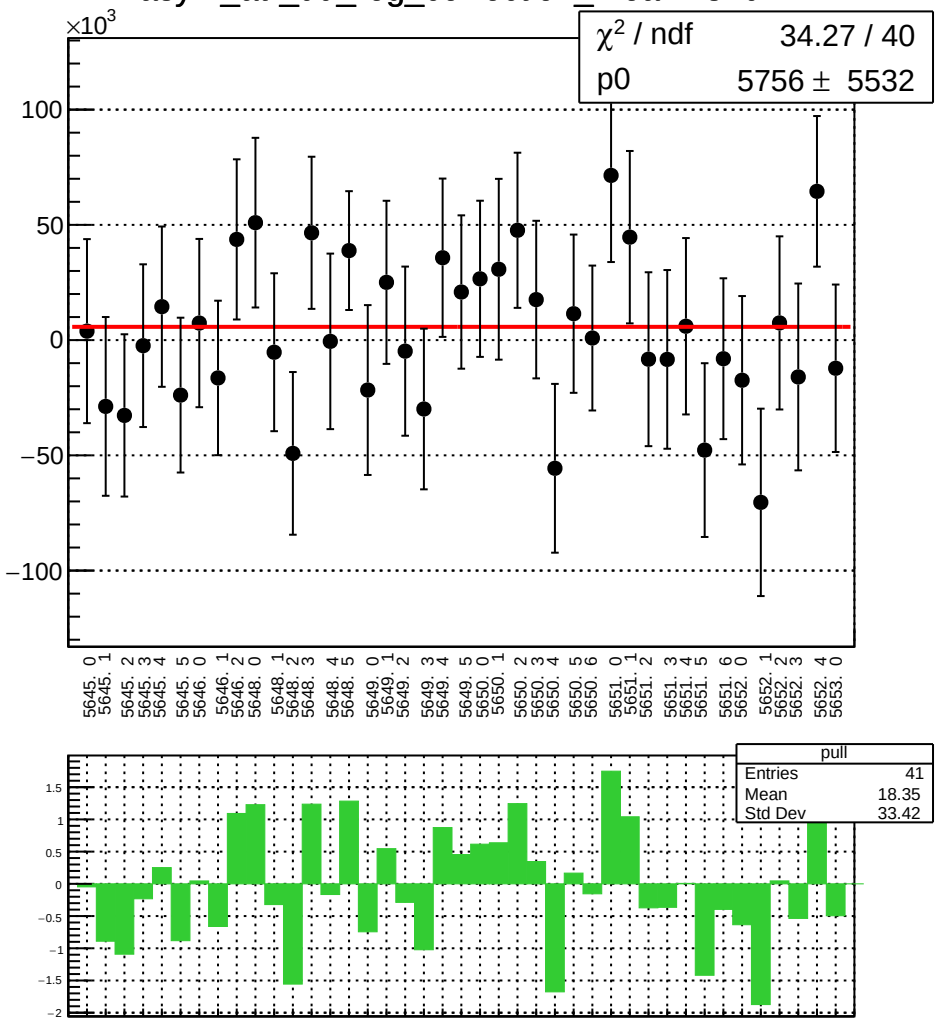

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.49 / 40
p0 1.773e−14 ± 2.938e−13
pull
Entries 41
Mean 17.7
Std Dev 0
pull1D
Entries 41
Mean −0.04083
Std Dev 0.8893

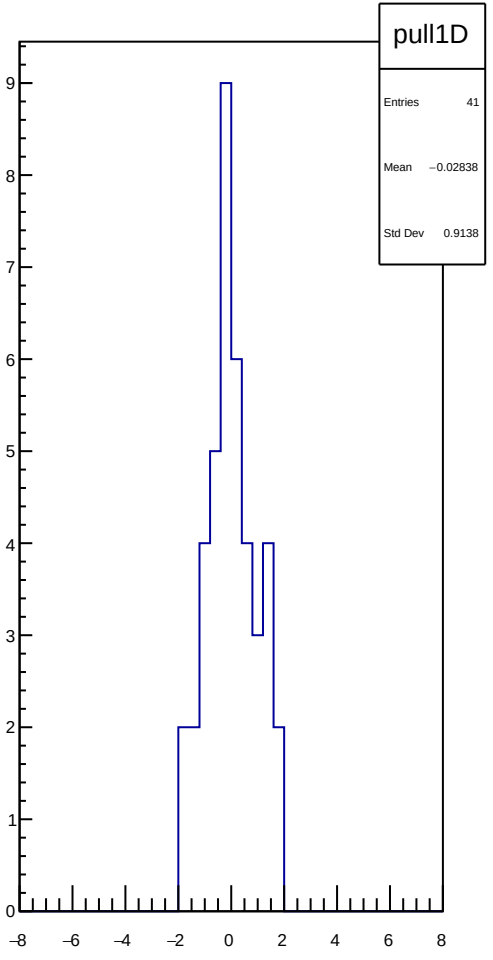

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.303e+05 / 40
p0 1.555e−10 ± 2.078e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

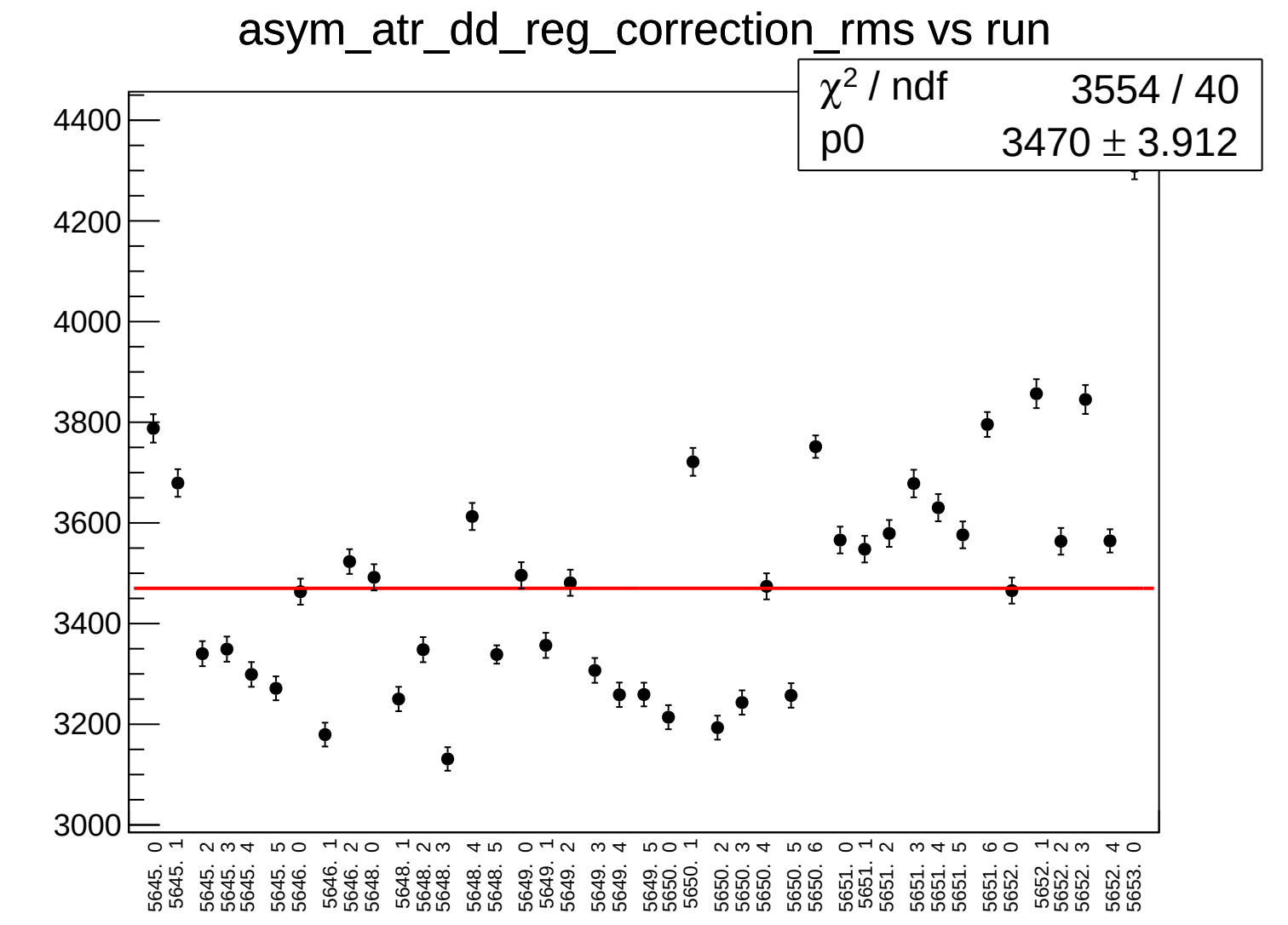

reg_asym_atr_dd_mean vs run
χ² / ndf 50.49 / 40
p0 −3489 ± 2591
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −44.67
Std Dev 0
2
1
0
−1
−2

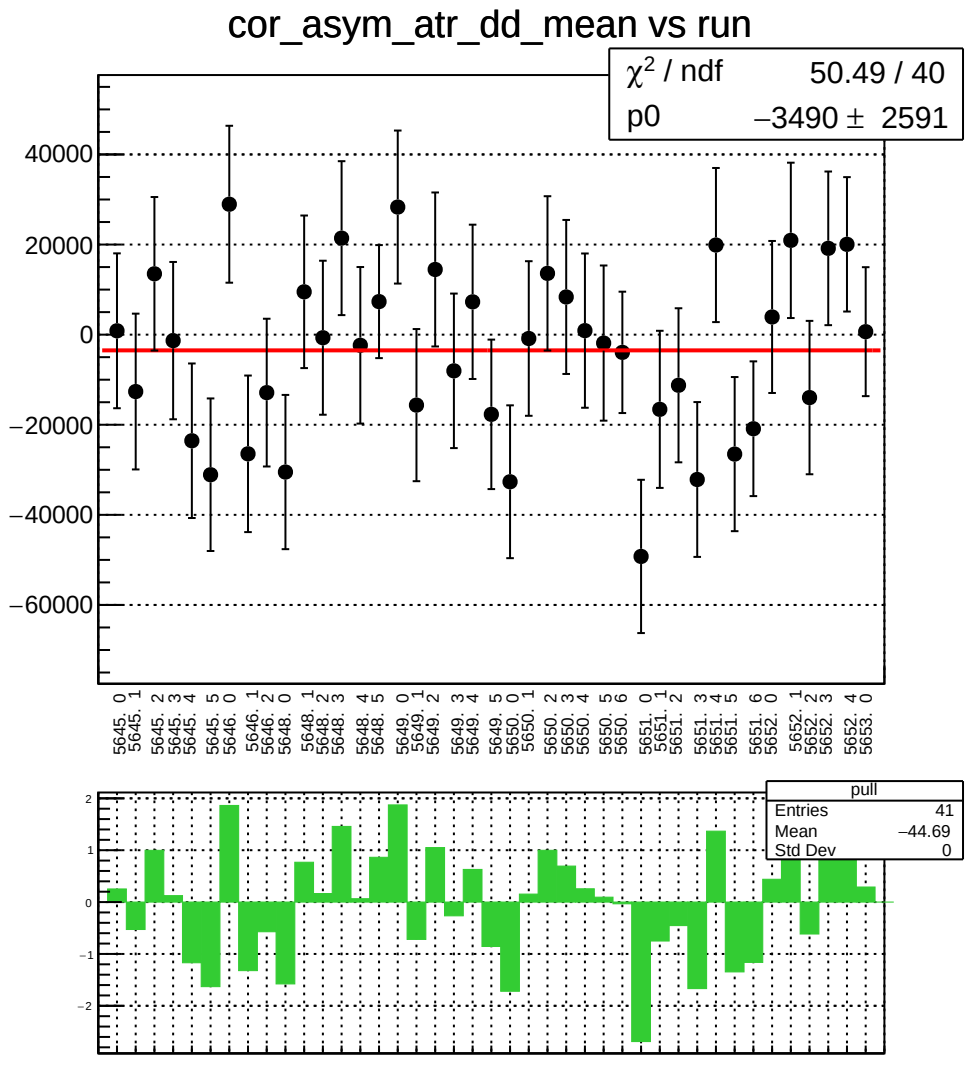

pull1D
Entries 41
Mean −0.008659
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

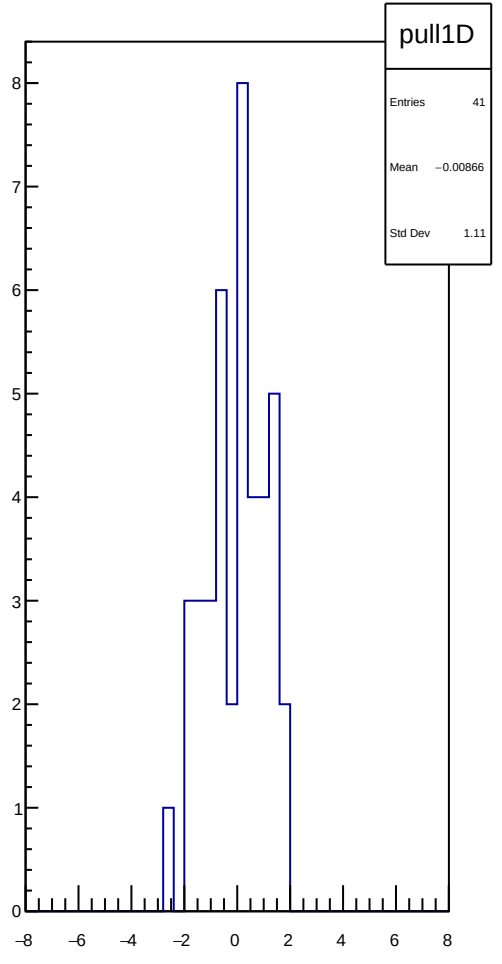

reg_asym_atr_dd_rms vs run
χ² / ndf 108.8 / 40
p0 1629 ± 1.832
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

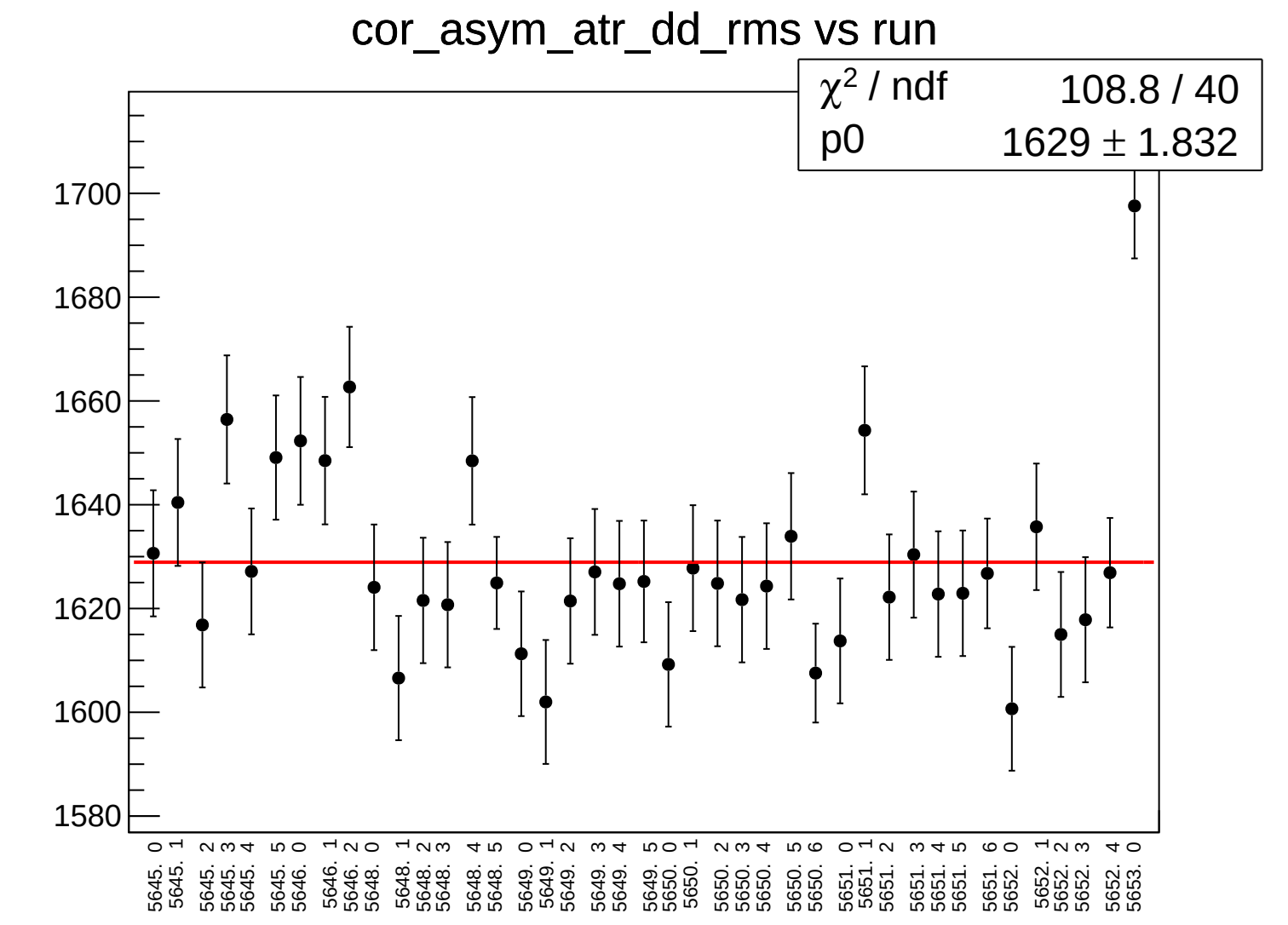

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 34.27 / 40
p0 5756 ± 5532
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.35
Std Dev 33.42
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02838
Std Dev 0.9138
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 3554 / 40
p0 3470 ± 3.912
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_atr_dd_mean vs run
χ² / ndf 50.49 / 40
p0 −3490 ± 2591
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −44.69
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.00866
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_dd_rms vs run
χ² / ndf 108.8 / 40
p0 1629 ± 1.832
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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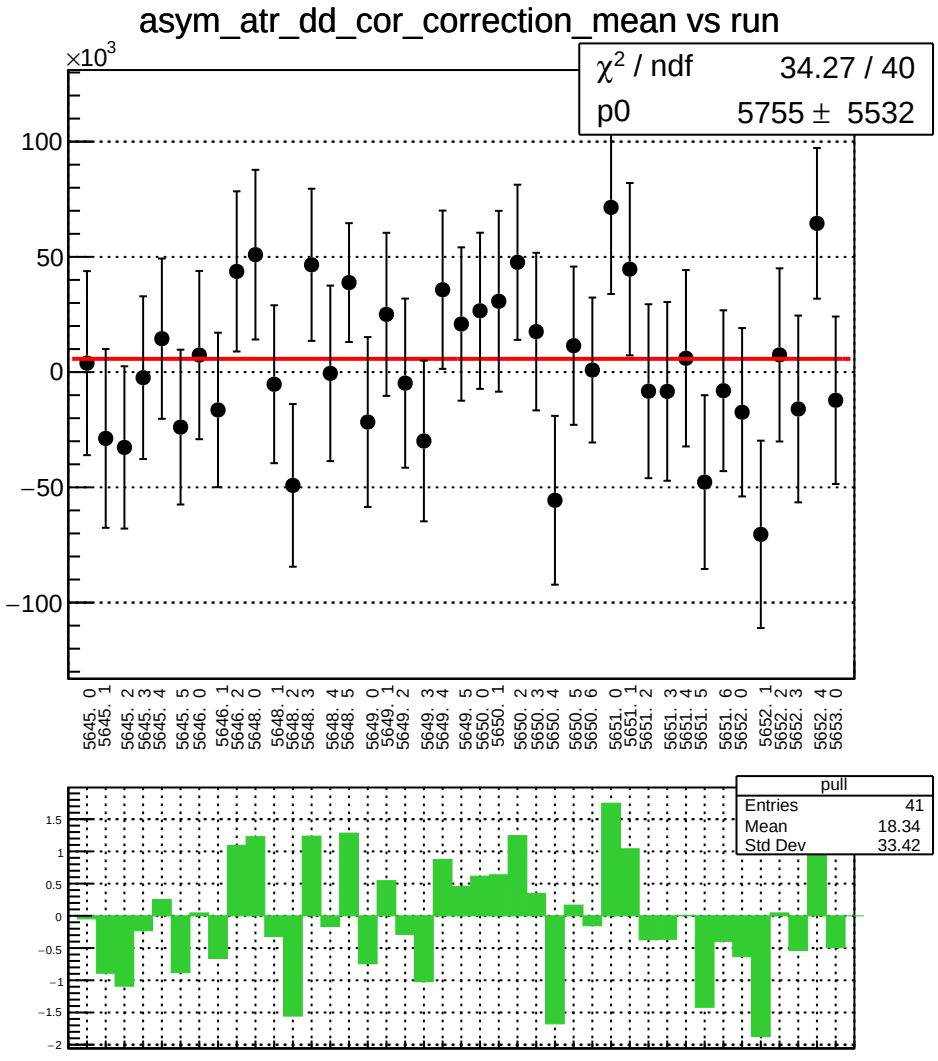
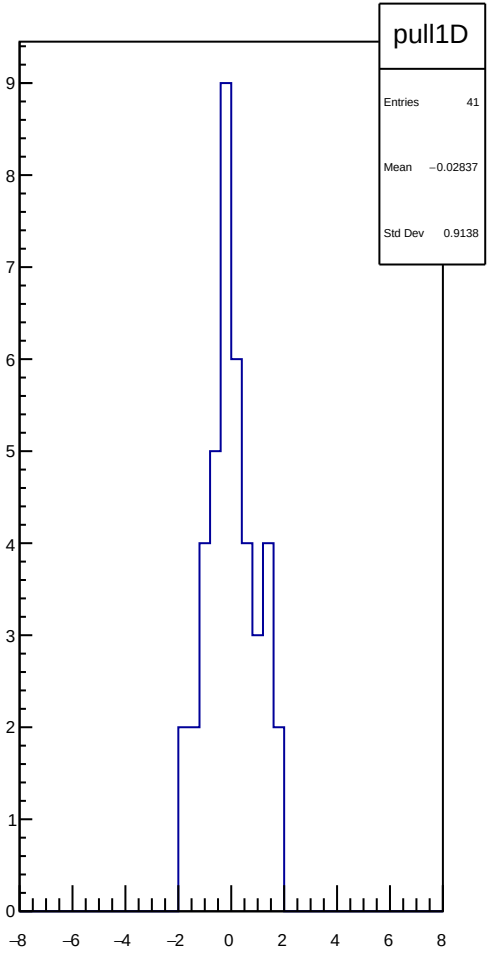
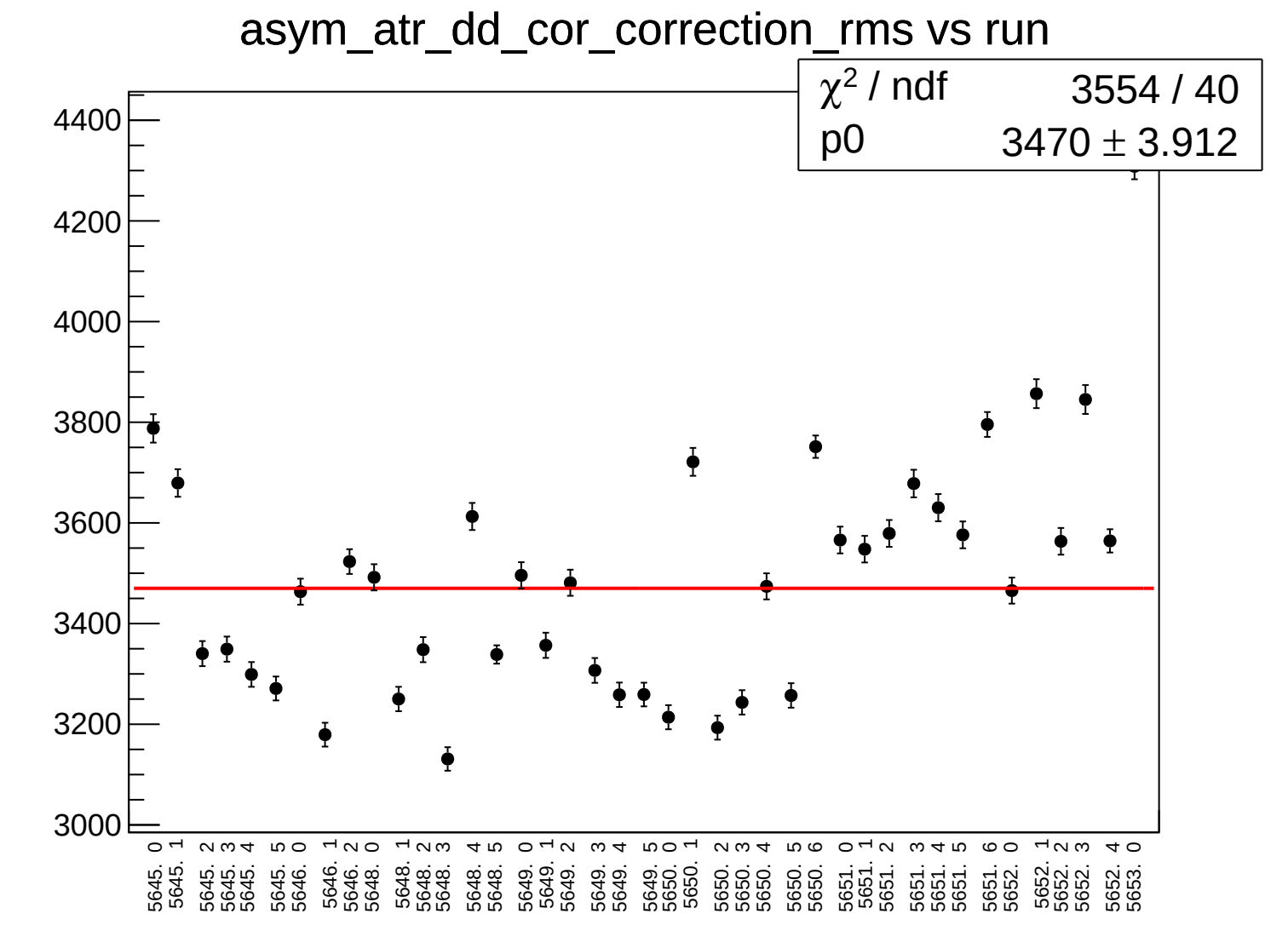
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 34.27 / 40
p0 5755 ± 5532
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.34
Std Dev 33.42
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02837
Std Dev 0.9138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3554 / 40
p0 3470 ± 3.912
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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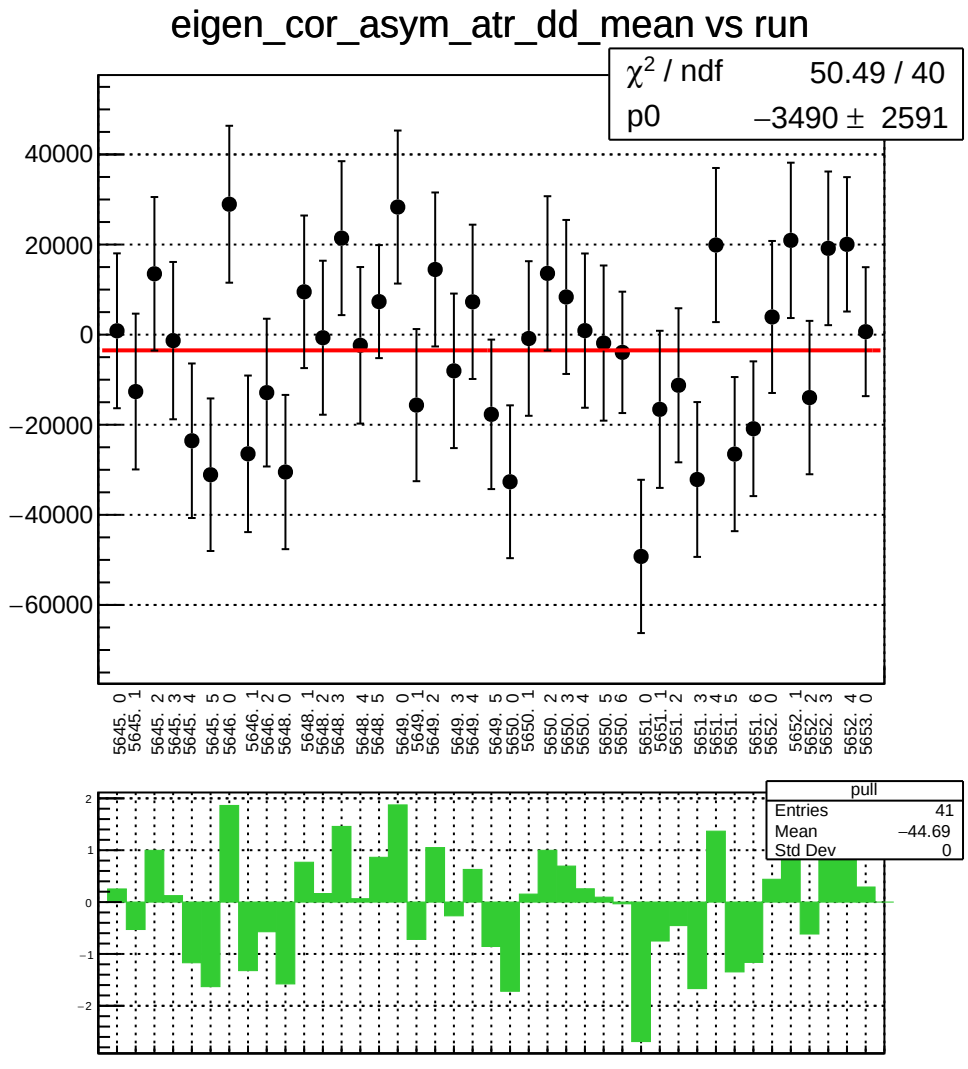
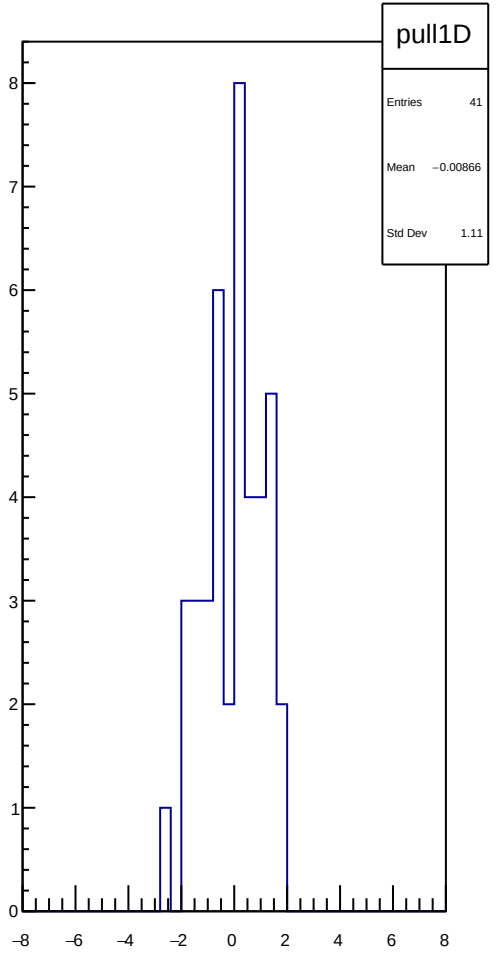
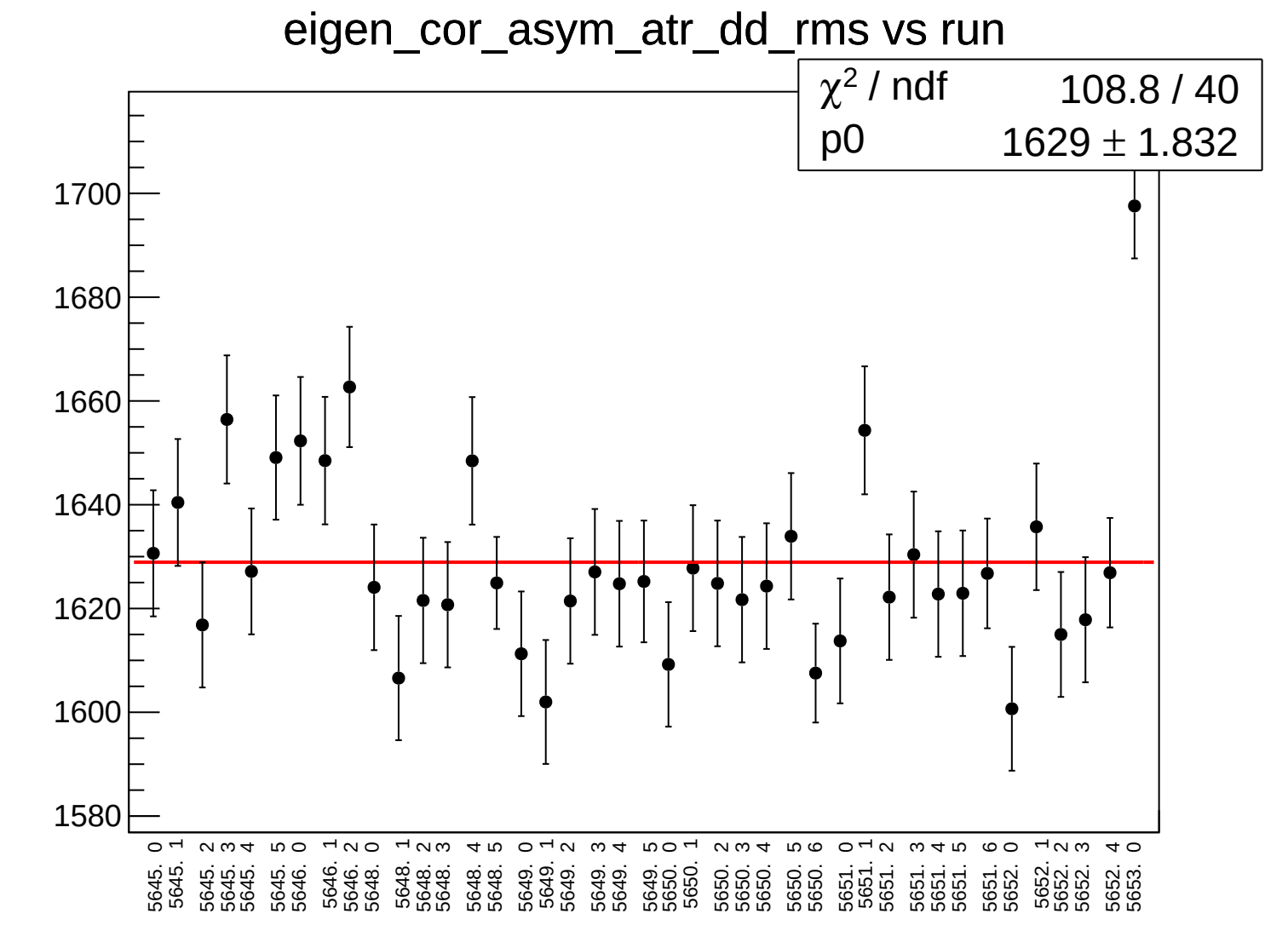
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 50.49 / 40
p0 −3490 ± 2591
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −44.69
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.00866
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 108.8 / 40
p0 1629 ± 1.832
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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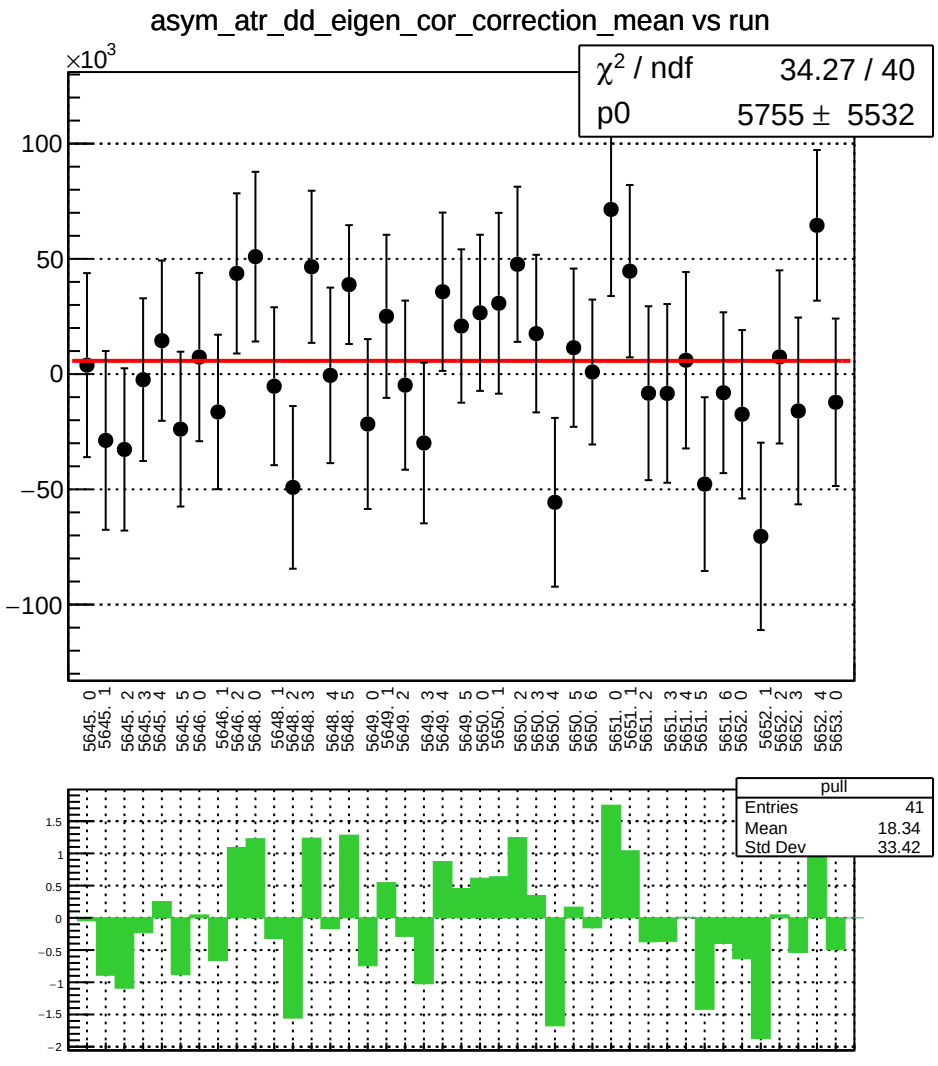
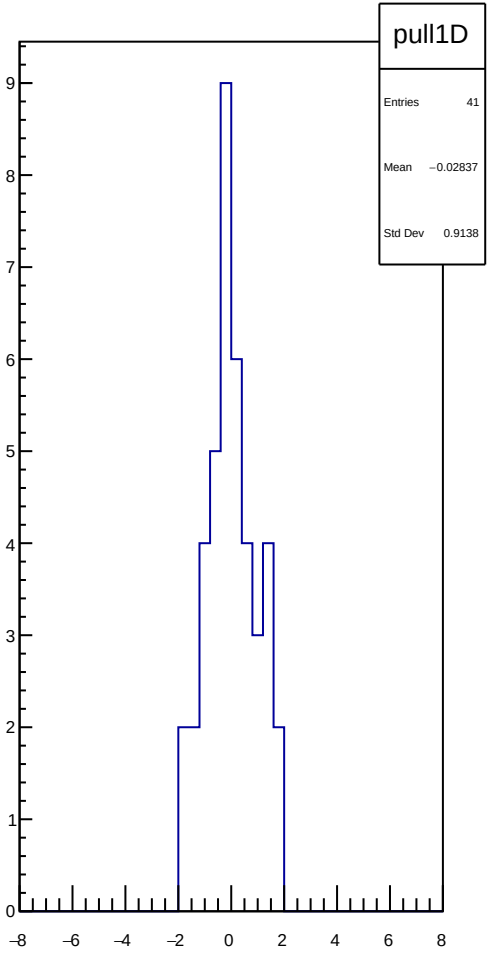
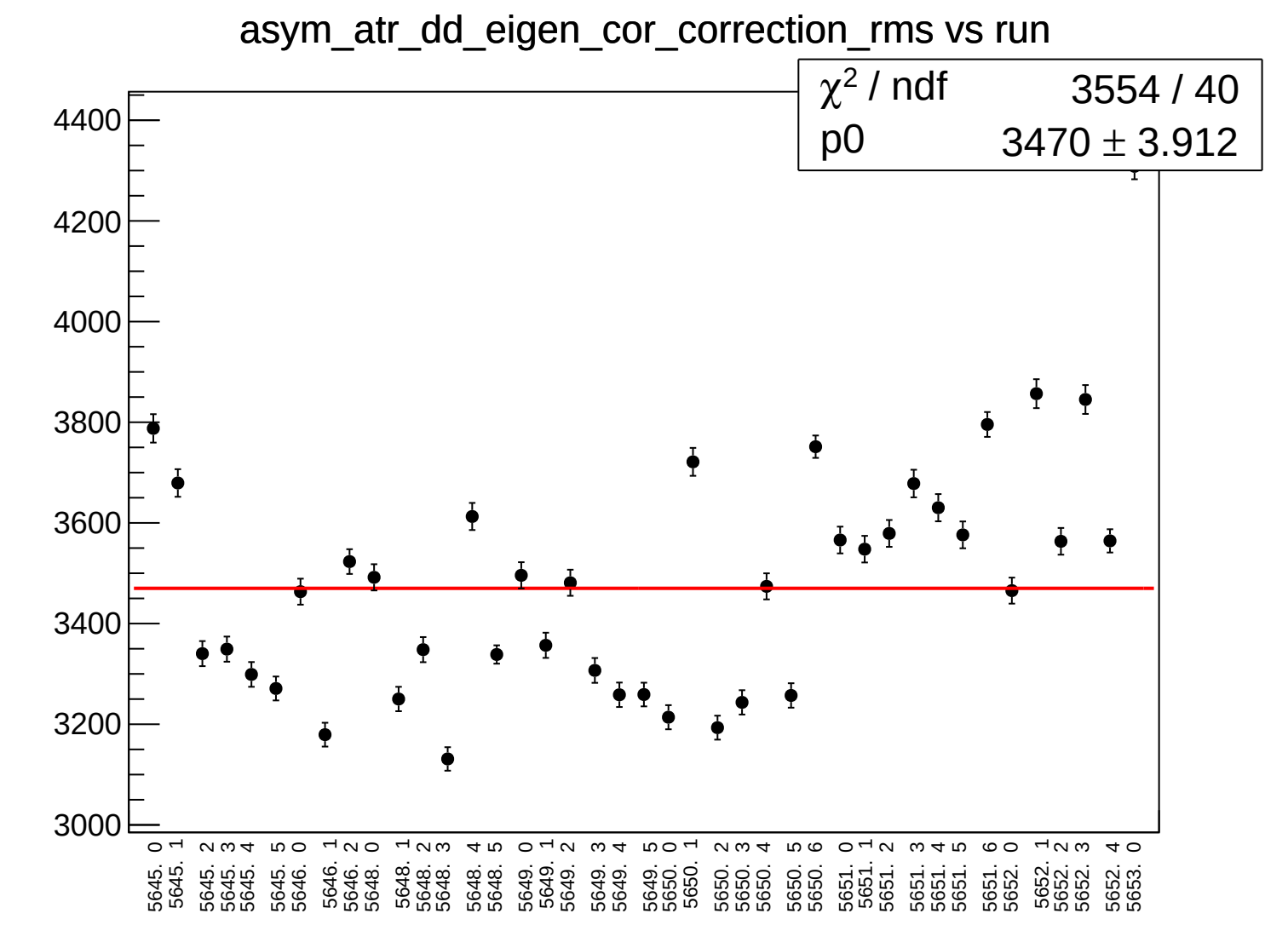
5652. 4
5653. 0


asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 34.27 / 40
p0 5755 ± 5532
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.34
Std Dev 33.42
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02837
Std Dev 0.9138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3554 / 40
p0 3470 ± 3.912
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
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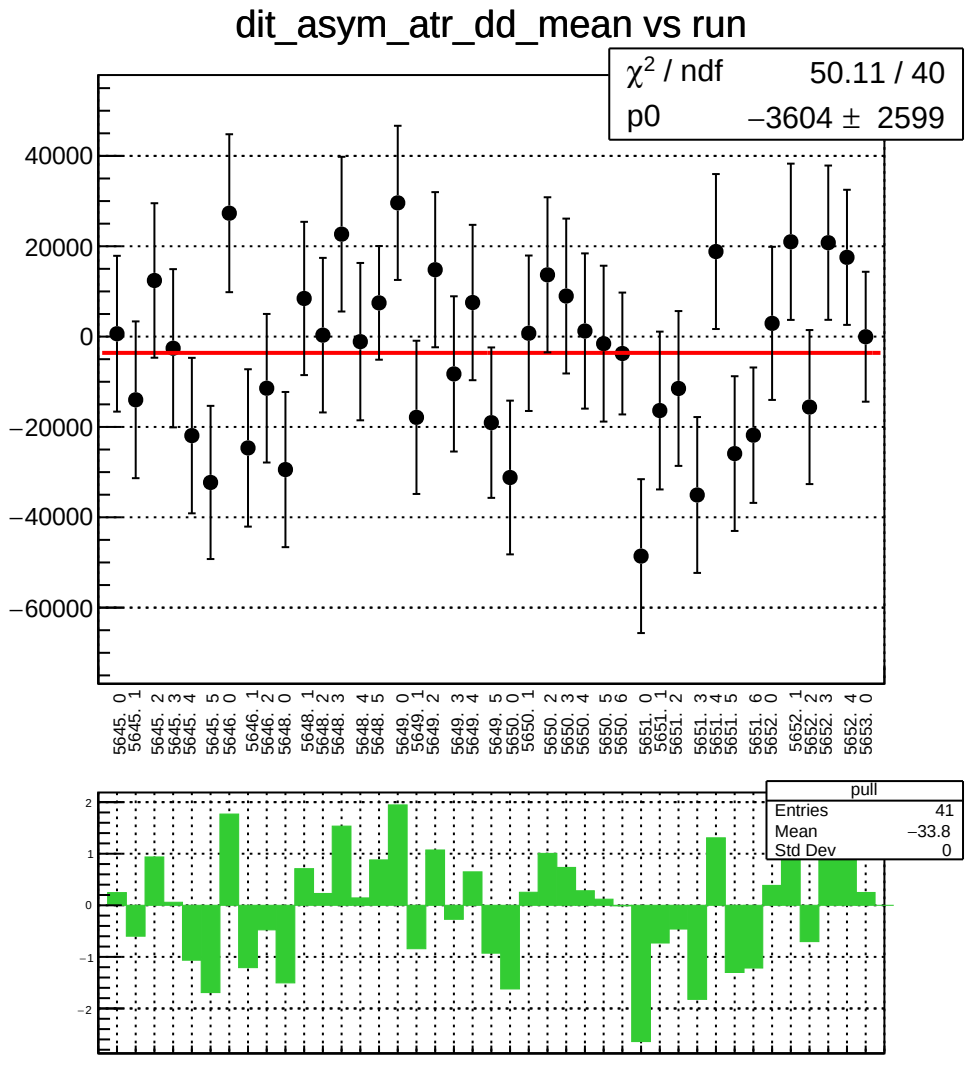
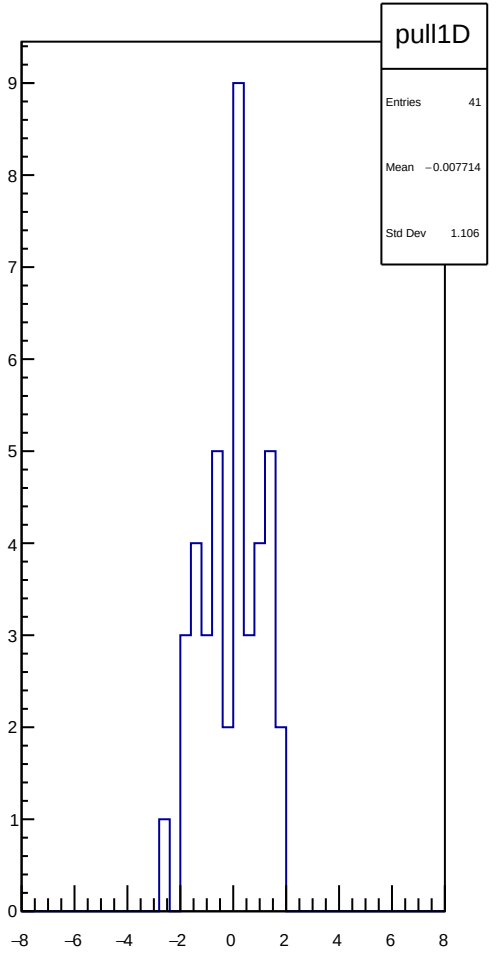
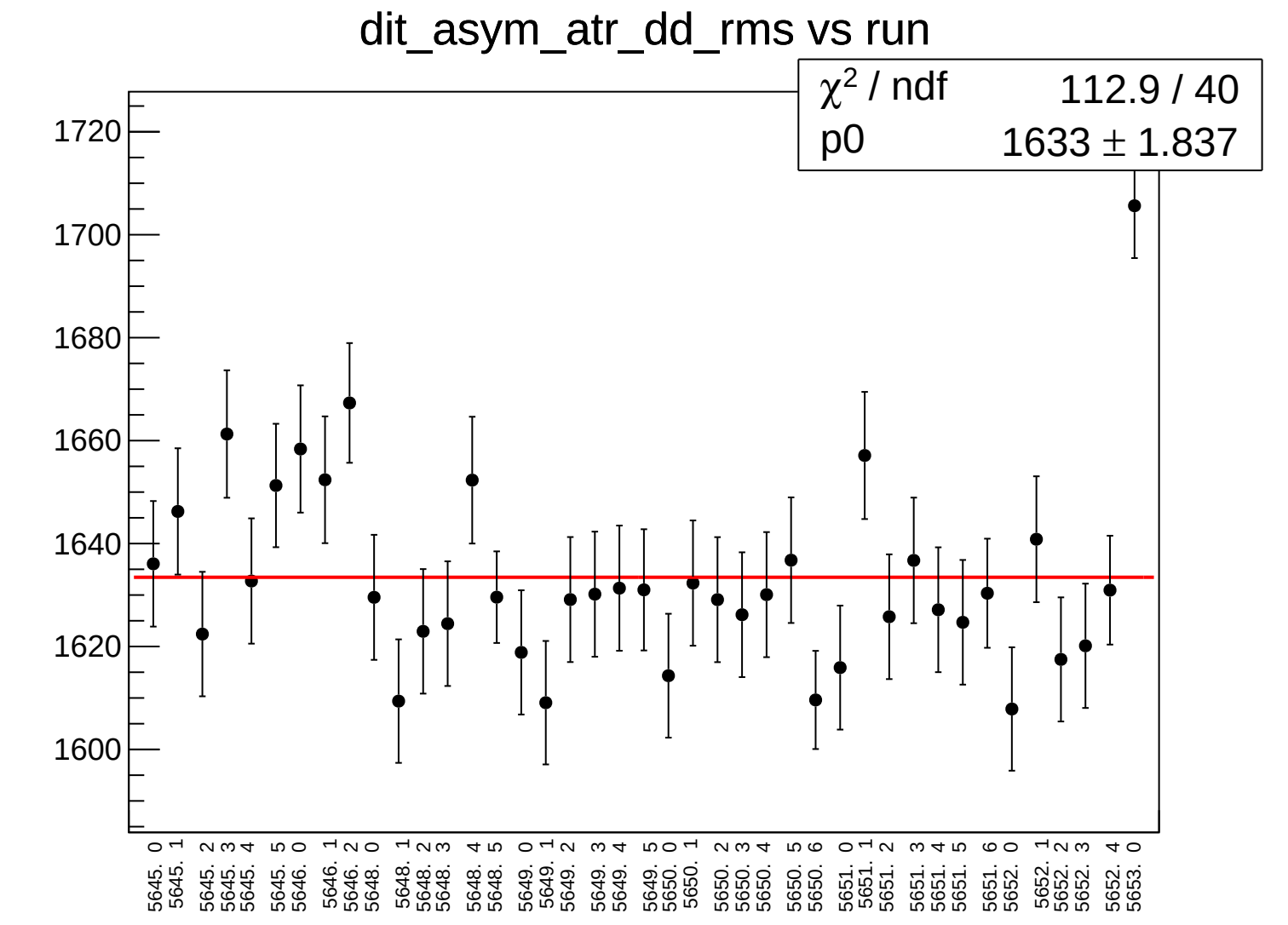
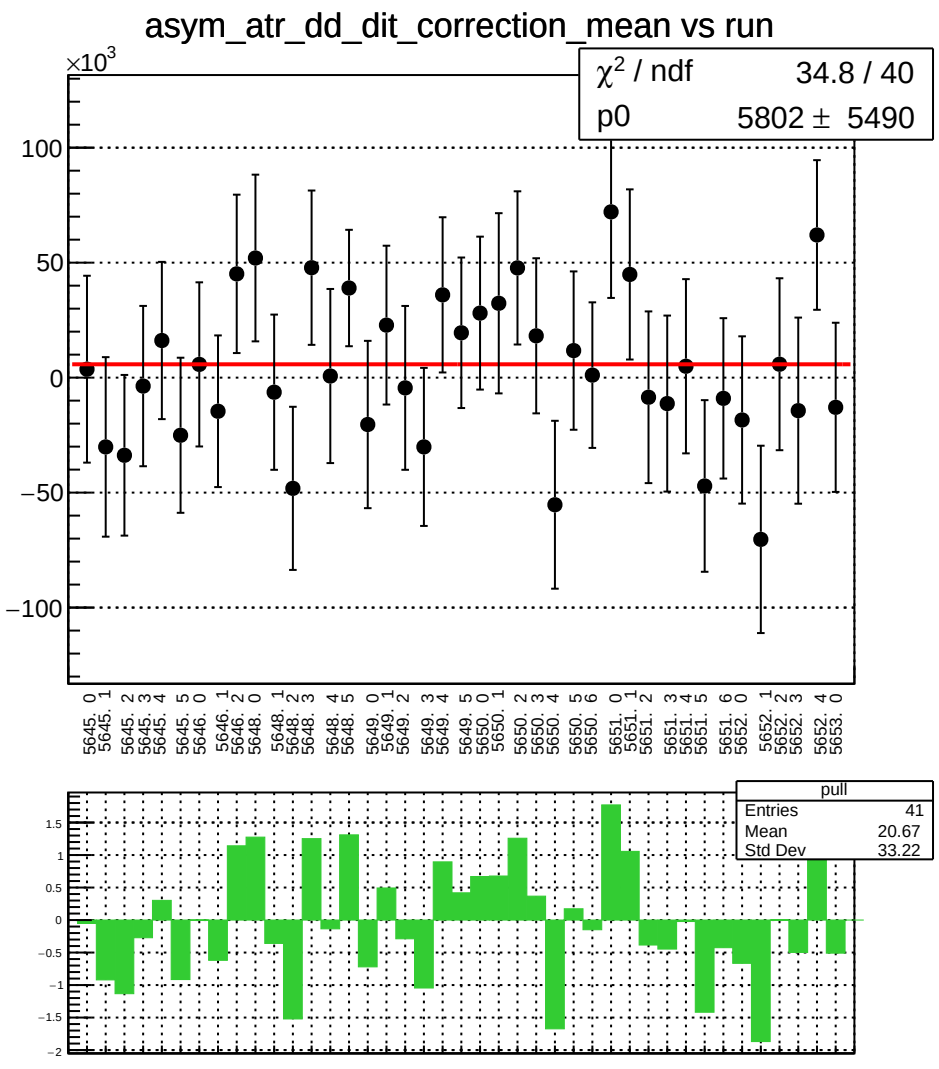
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_atr_dd_mean vs run
χ² / ndf 50.11 / 40
p0 −3604 ± 2599
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −33.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.007714
Std Dev 1.106
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 112.9 / 40
p0 1633 ± 1.837
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr_dd_dit_correction_mean vs run
χ² / ndf 34.8 / 40
p0 5802 ± 5490
×10³
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
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5648. 5
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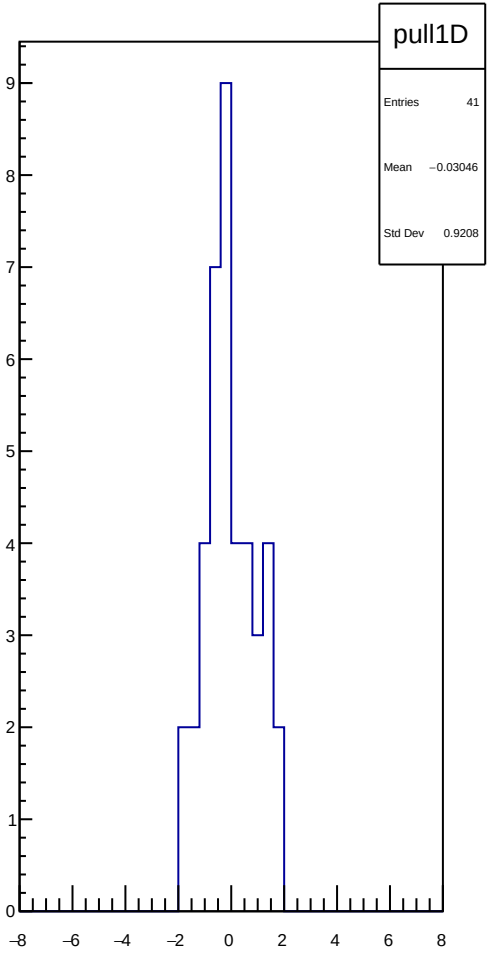
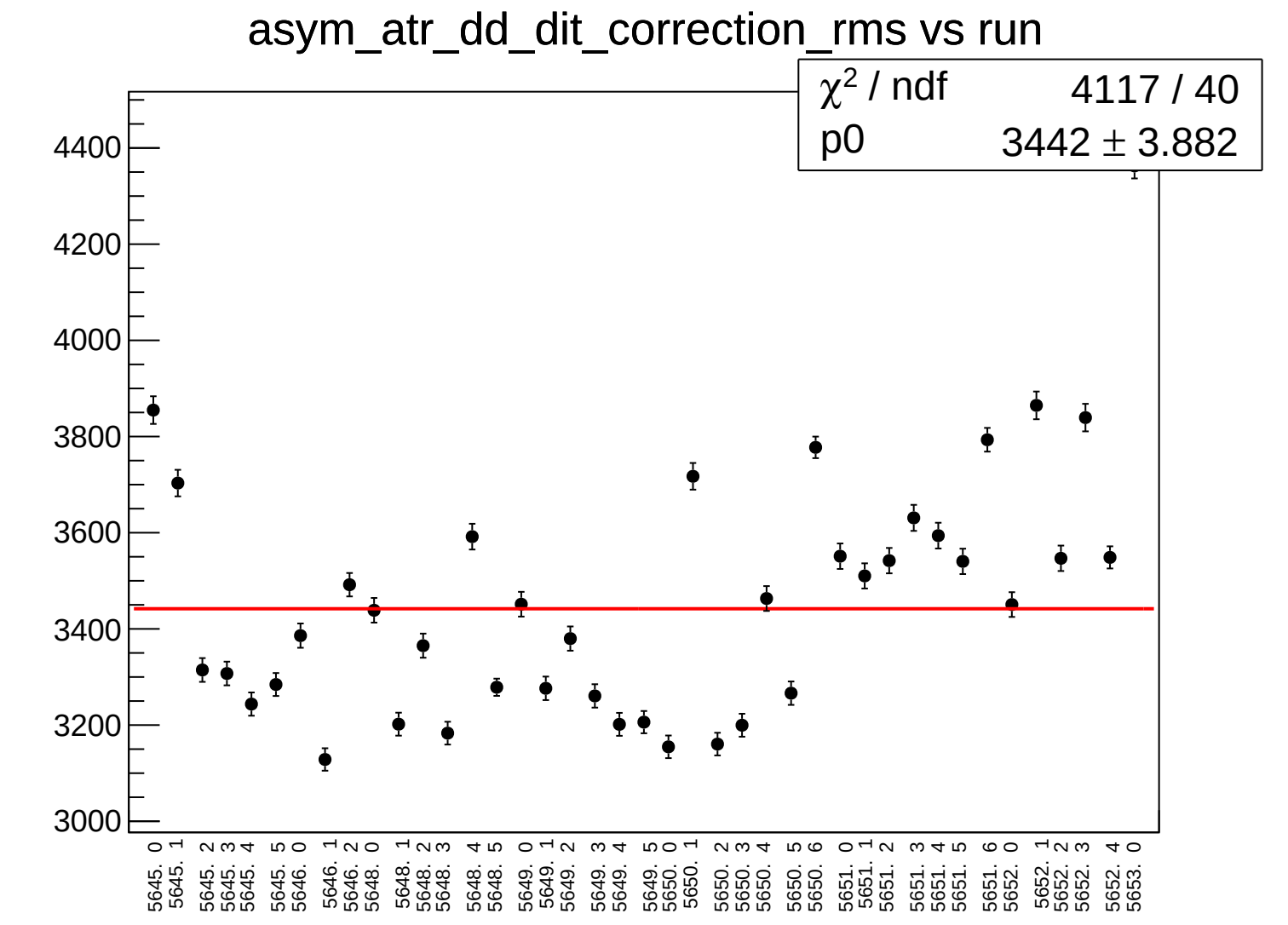
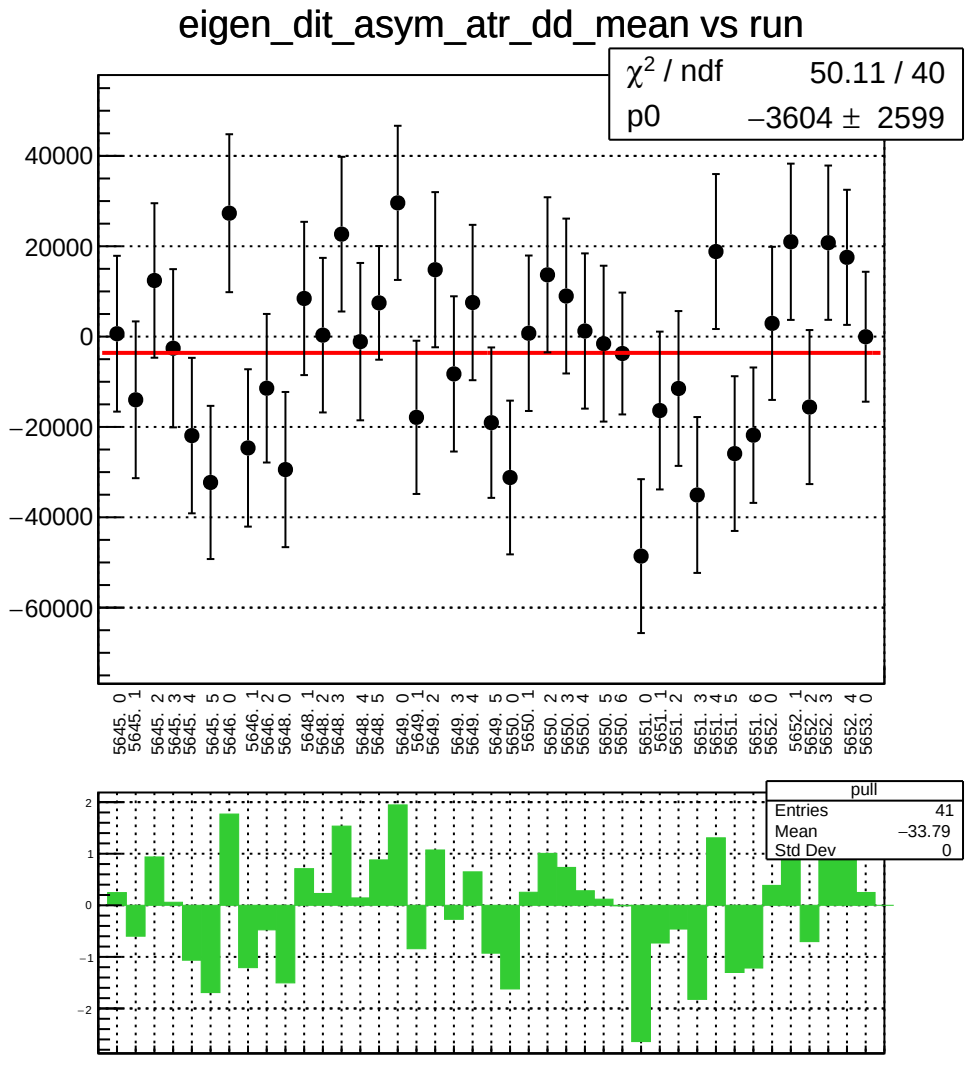
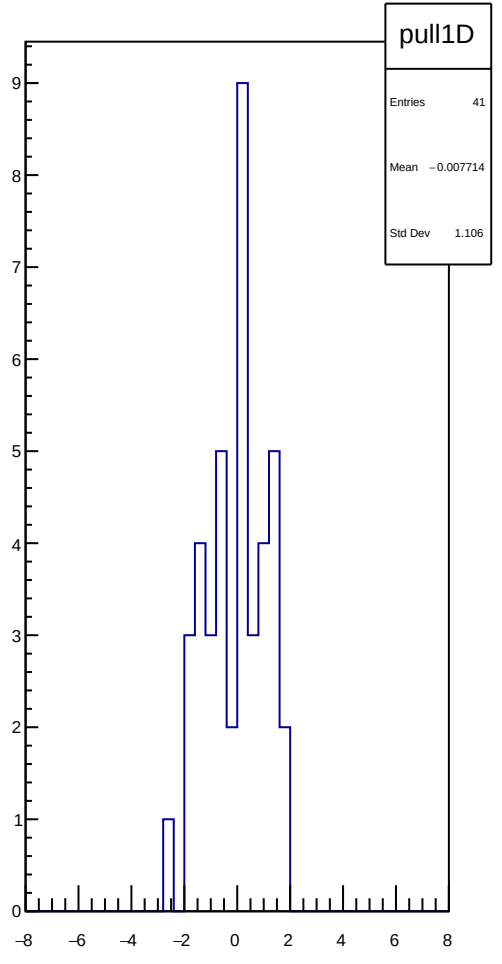
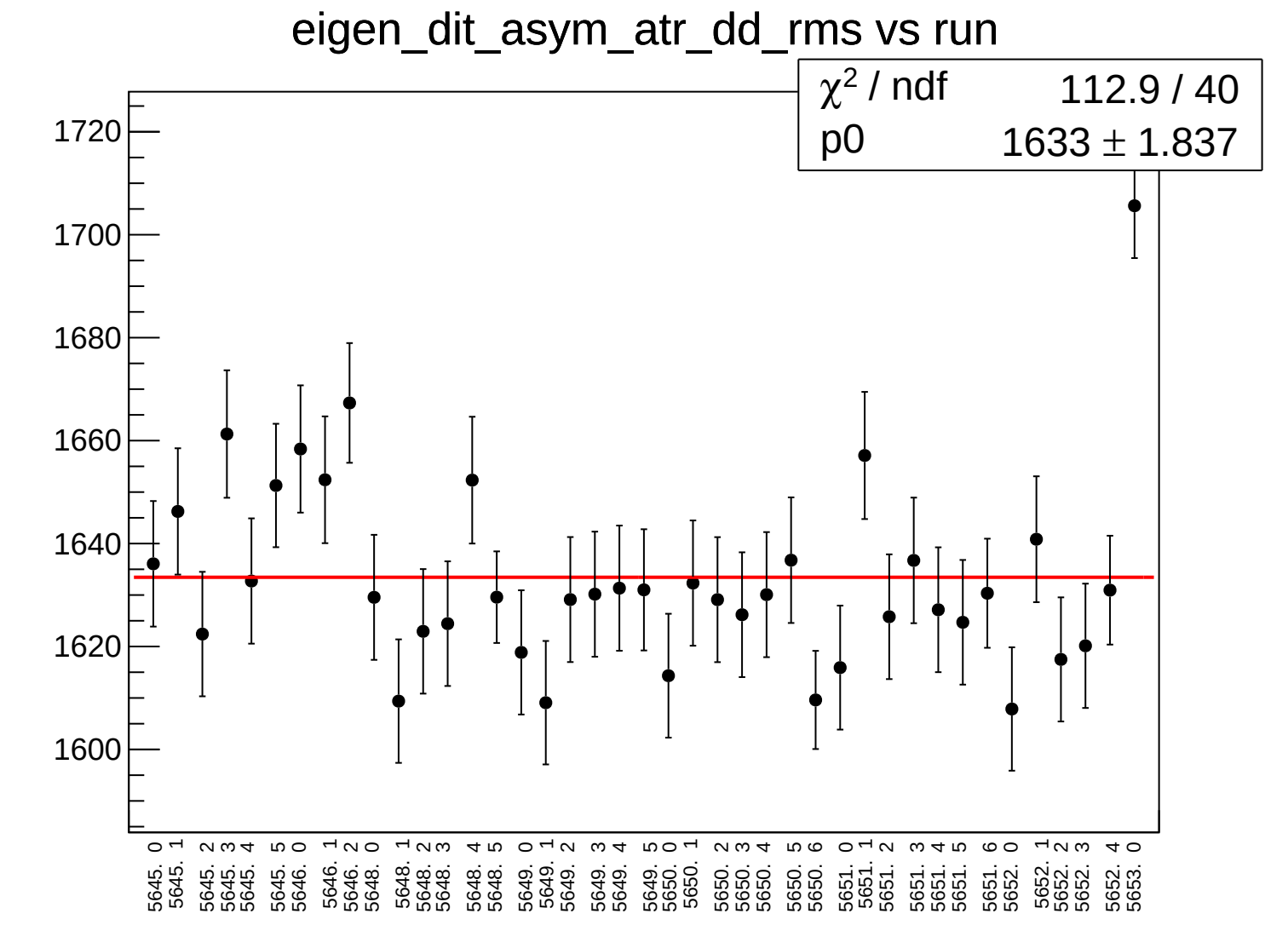
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.67
Std Dev 33.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2

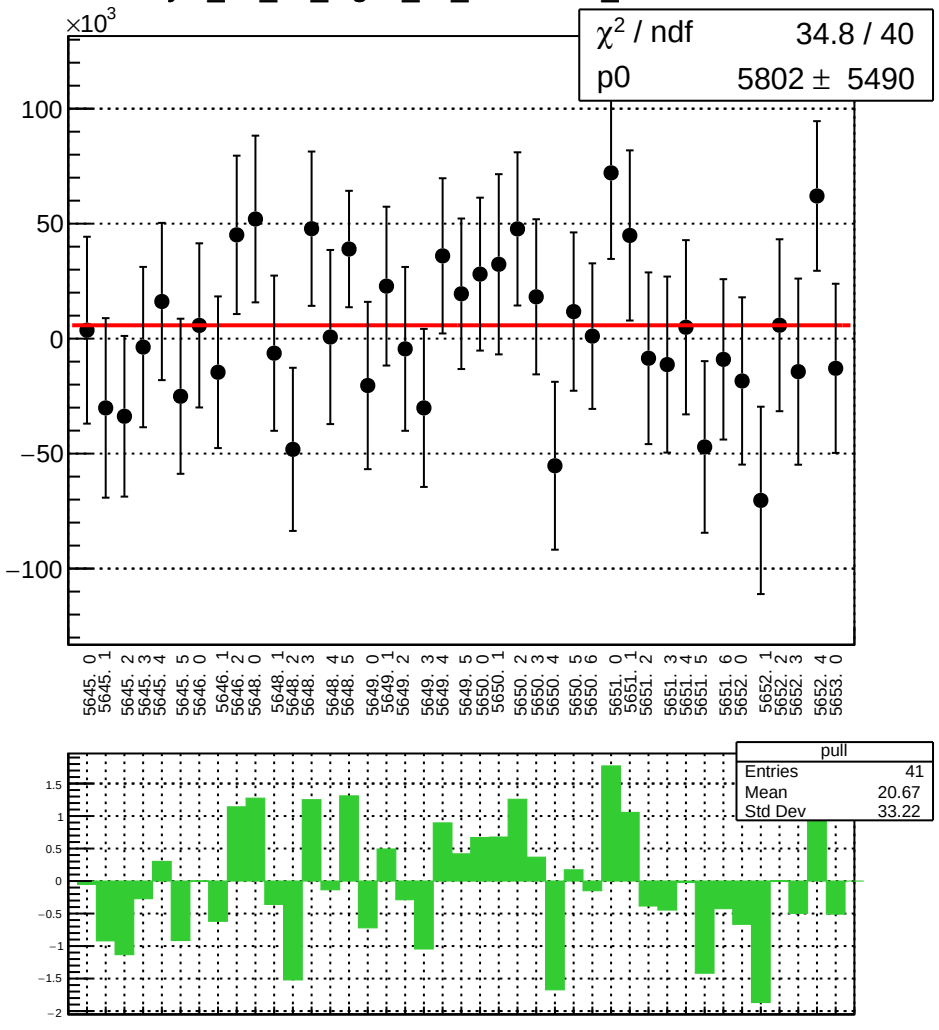

pull1D
Entries 41
Mean −0.03046
Std Dev 0.9208
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

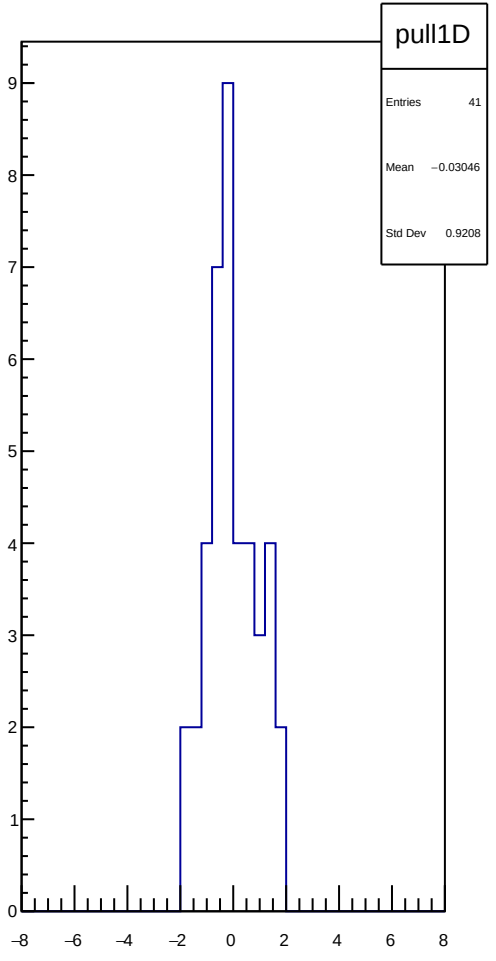

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 4117 / 40
p0 3442 ± 3.882
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

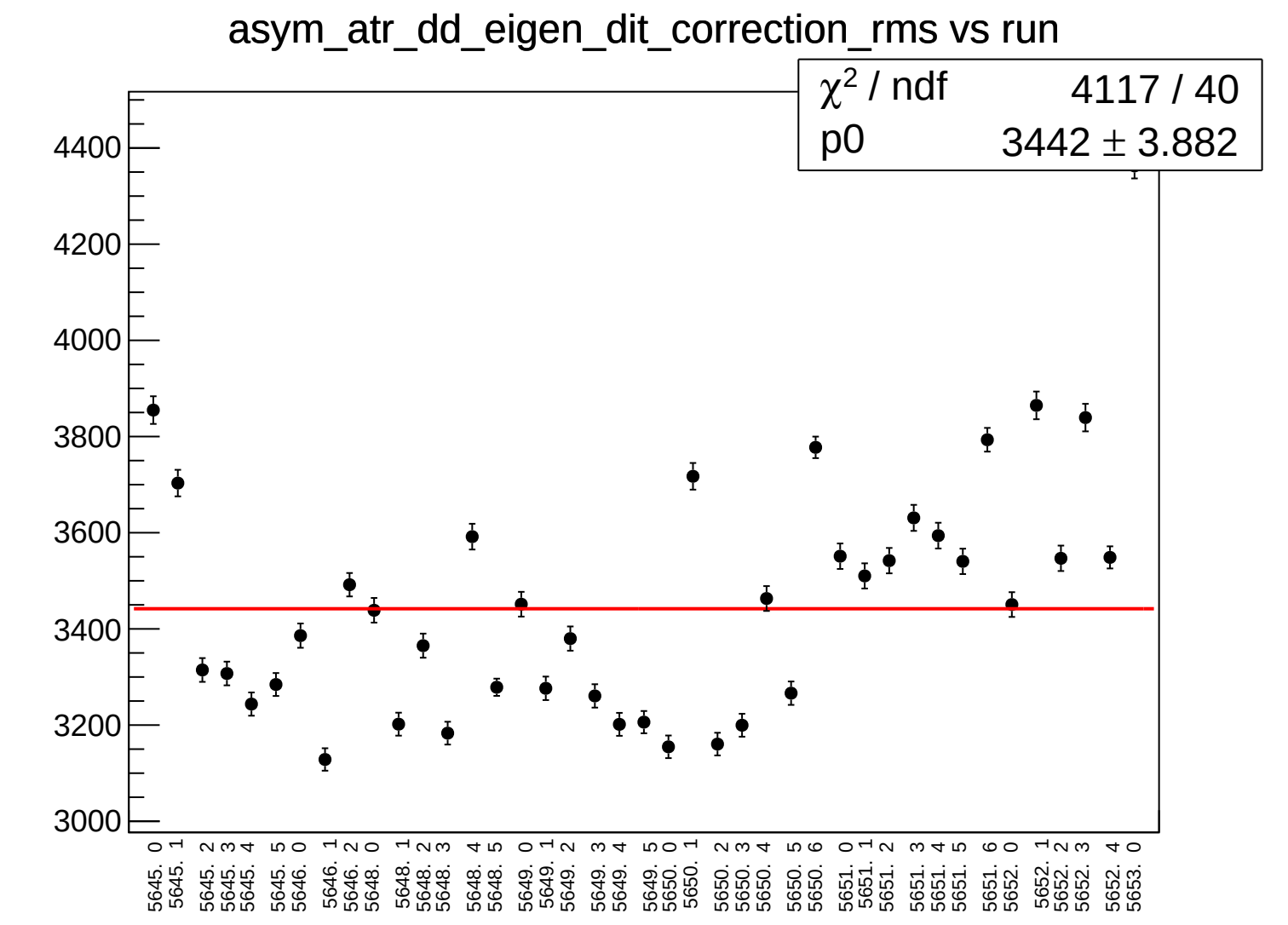

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 50.11 / 40
p0 −3604 ± 2599
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −33.79
Std Dev 0
2
1
0
−1
−2

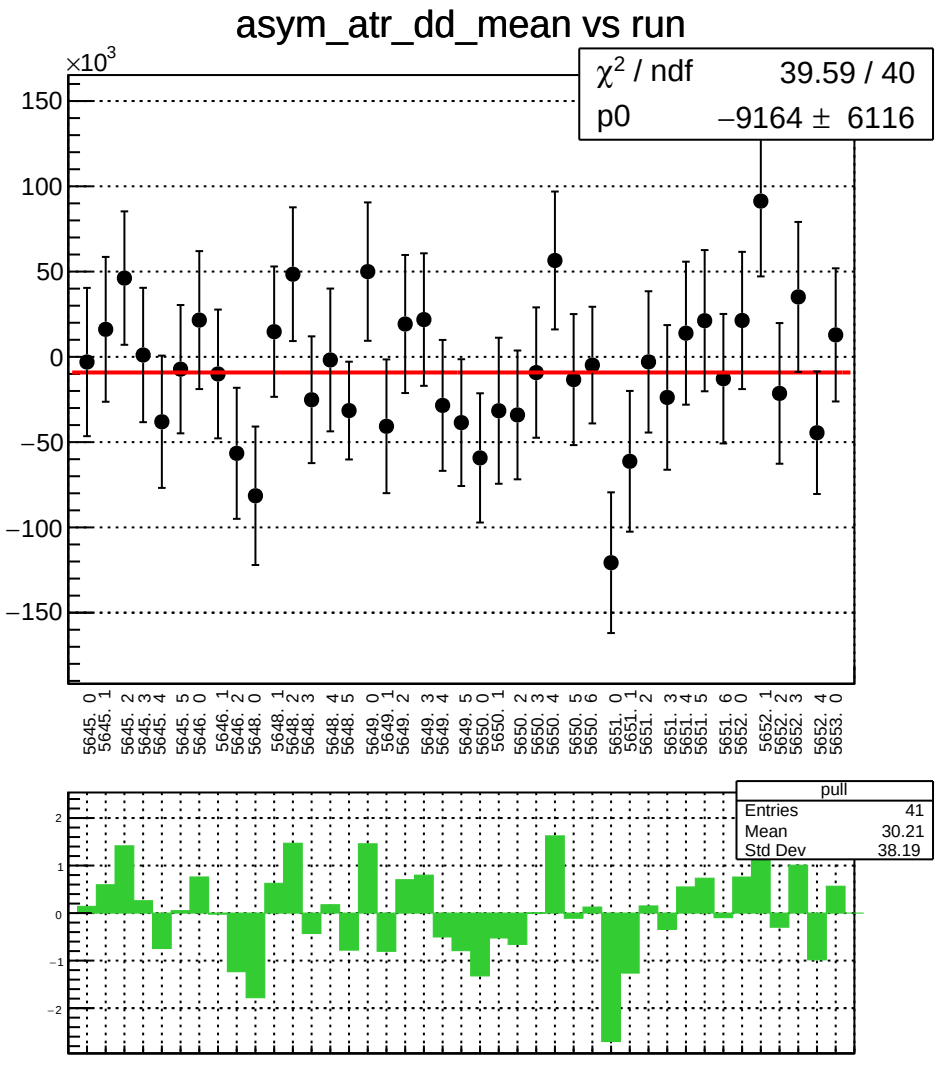

pull1D
Entries 41
Mean −0.007714
Std Dev 1.106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

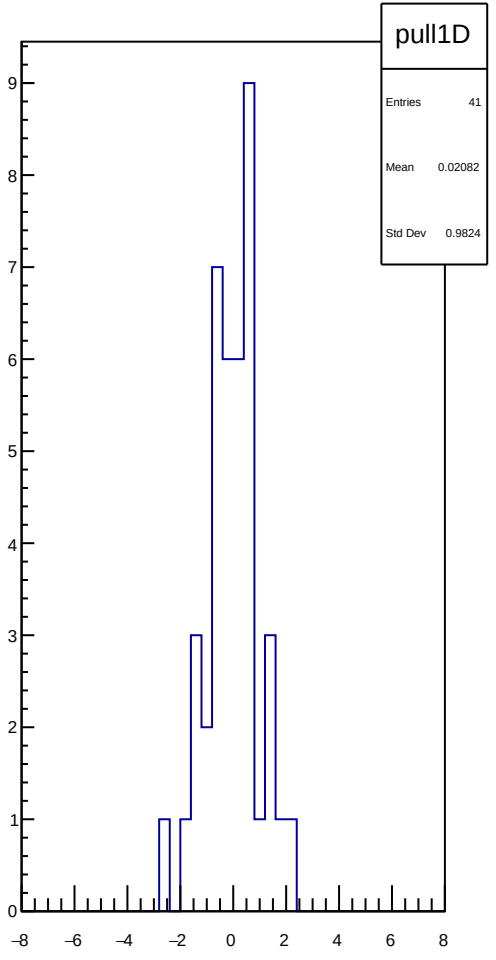

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 112.9 / 40
p0 1633 ± 1.837
1720
1700
1680
1660
1640
1620
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

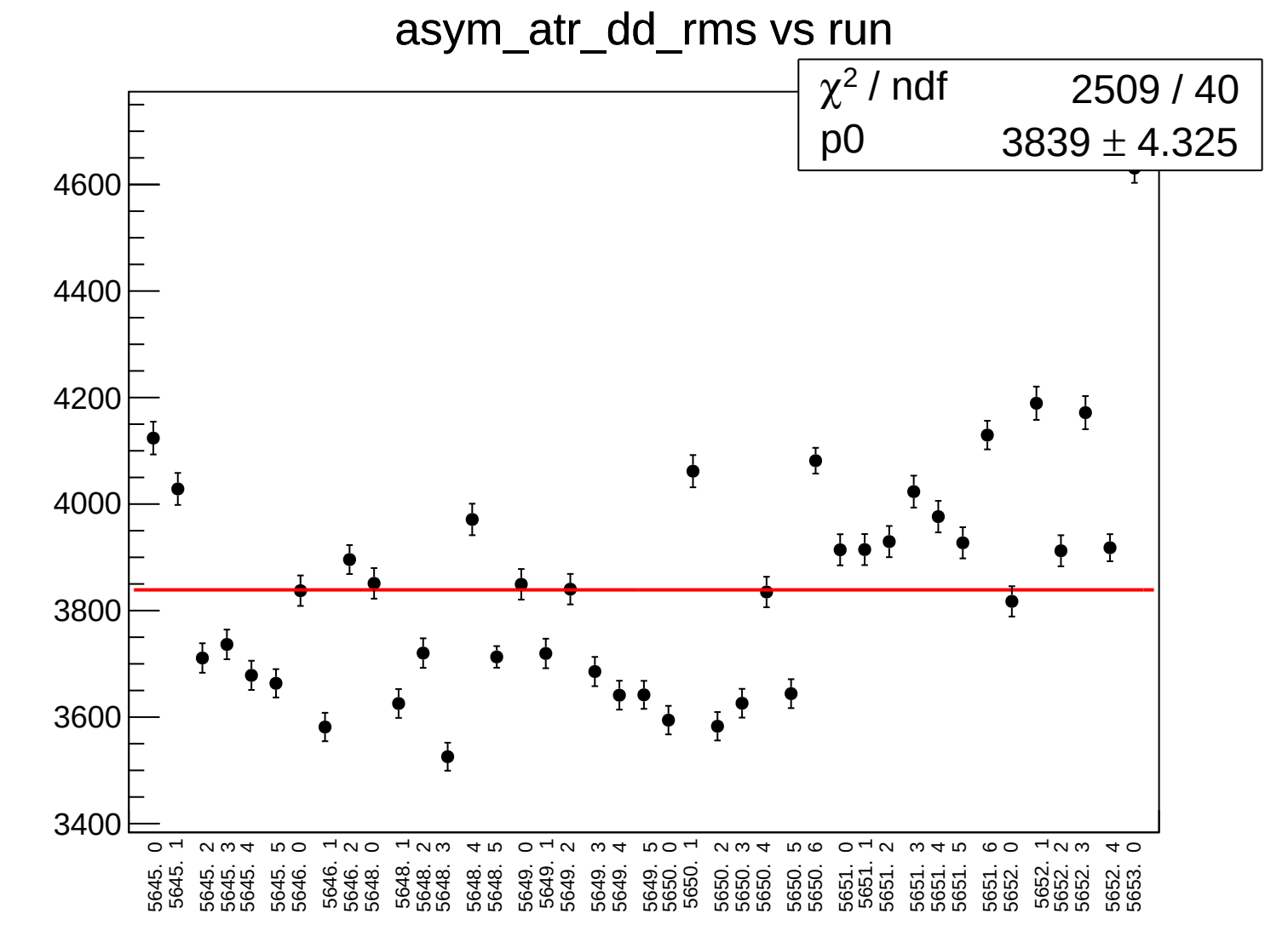

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 34.8 / 40
p0 5802 ± 5490
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.67
Std Dev 33.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2

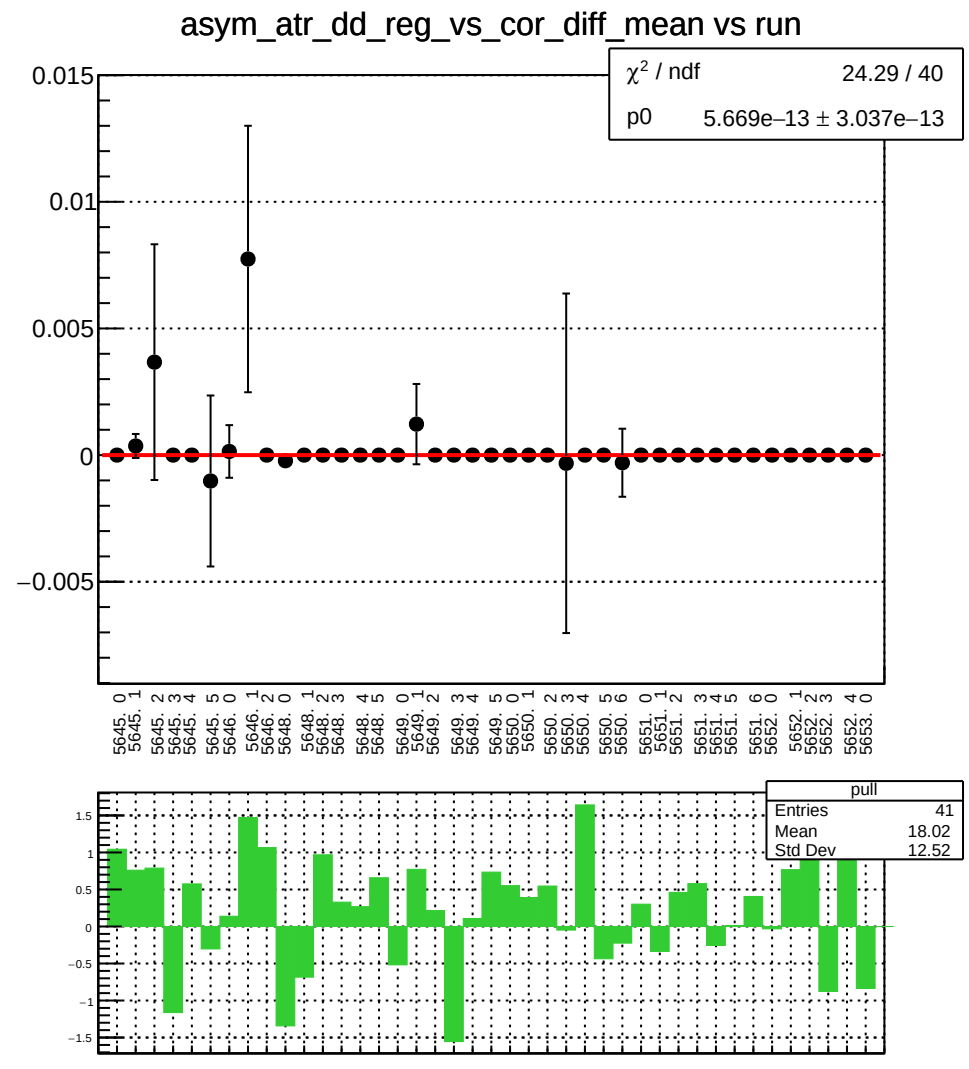

pull1D
Entries 41
Mean −0.03046
Std Dev 0.9208
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

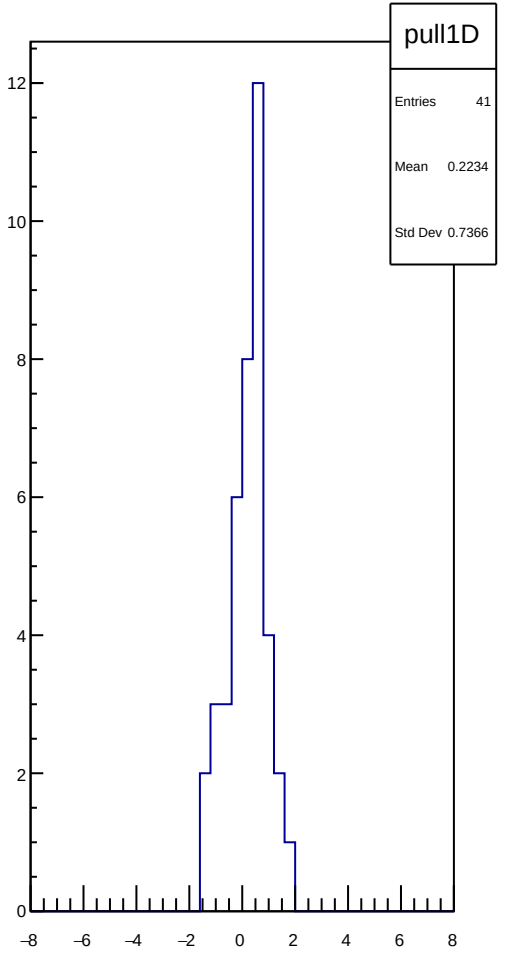

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 4117 / 40
p0 3442 ± 3.882
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

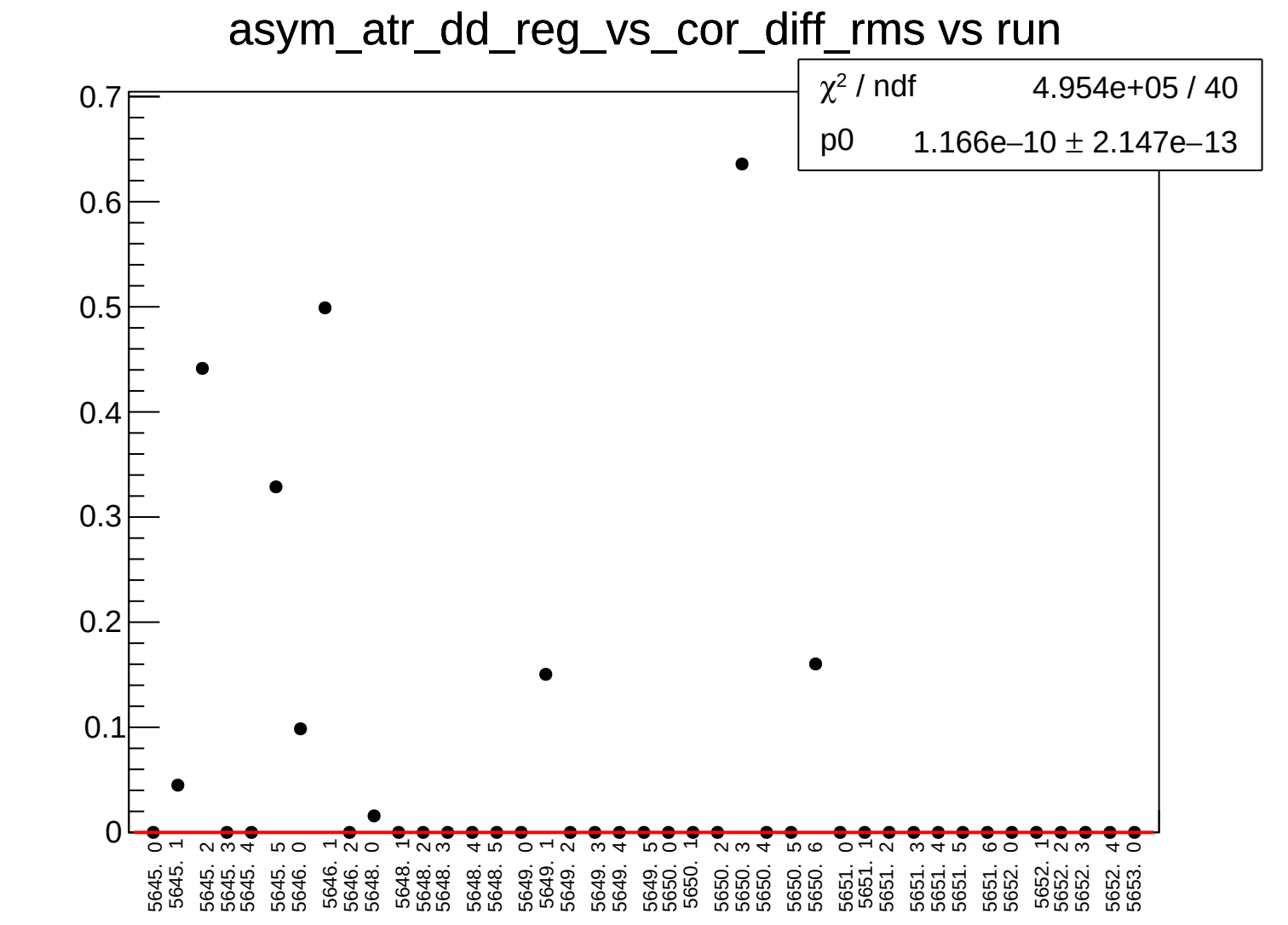

asym_atr_dd_mean vs run
×10^3
χ² / ndf 39.59 / 40
p0 −9164 ± 6116
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.21
Std Dev 38.19
2
1
0
−1
−2

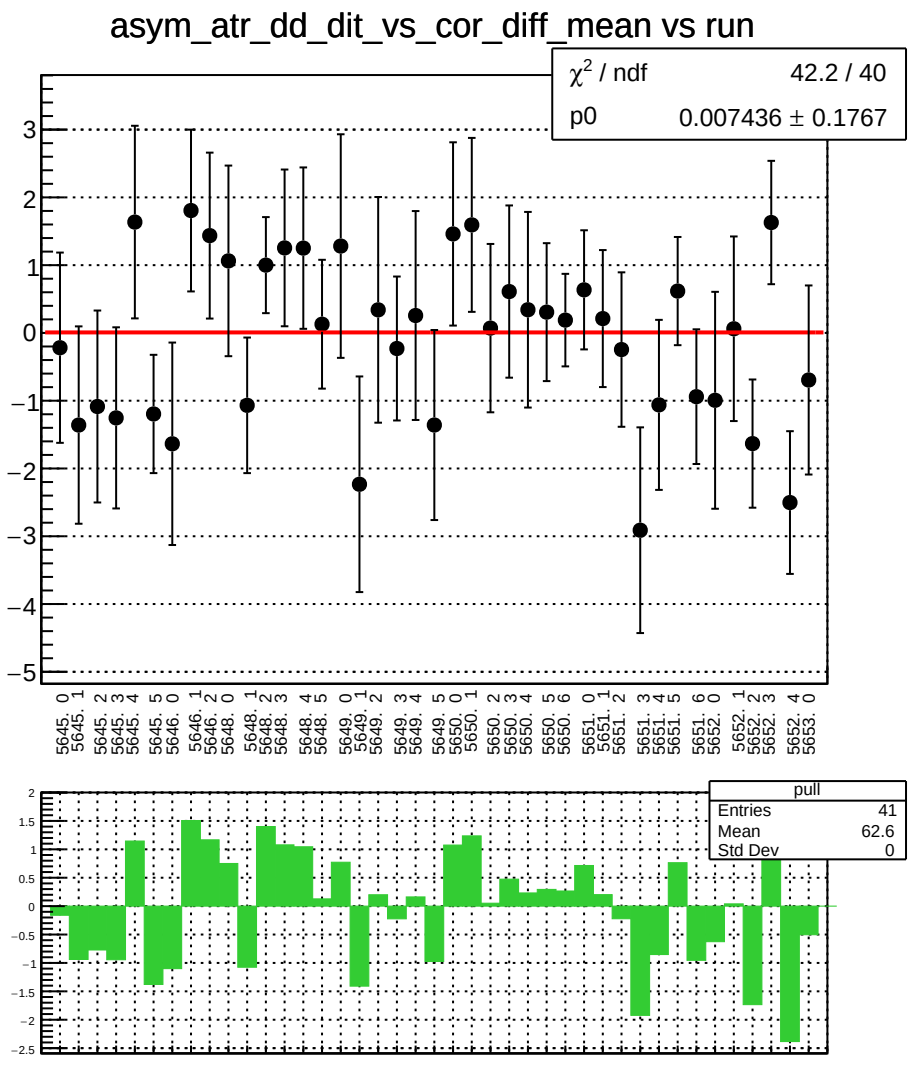

pull1D
Entries 41
Mean 0.02082
Std Dev 0.9824
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

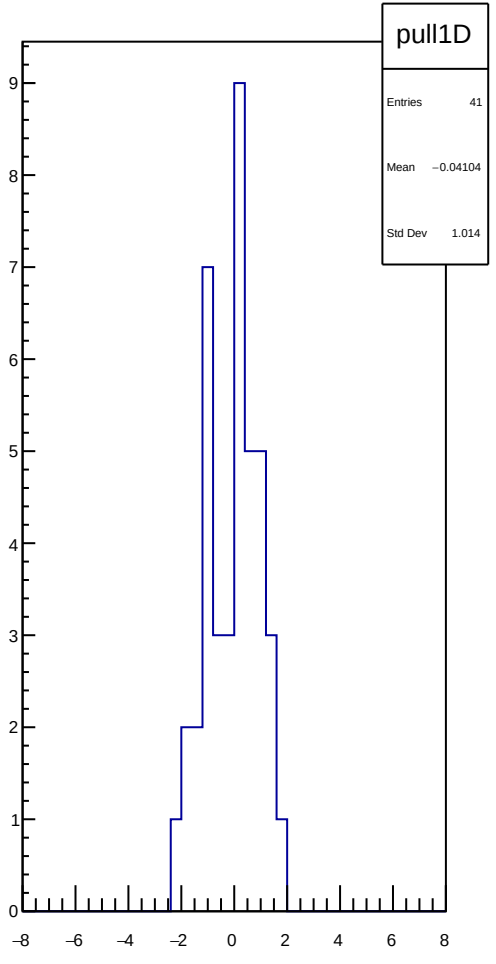

asym_atr_dd_rms vs run
χ² / ndf 2509 / 40
p0 3839 ± 4.325
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

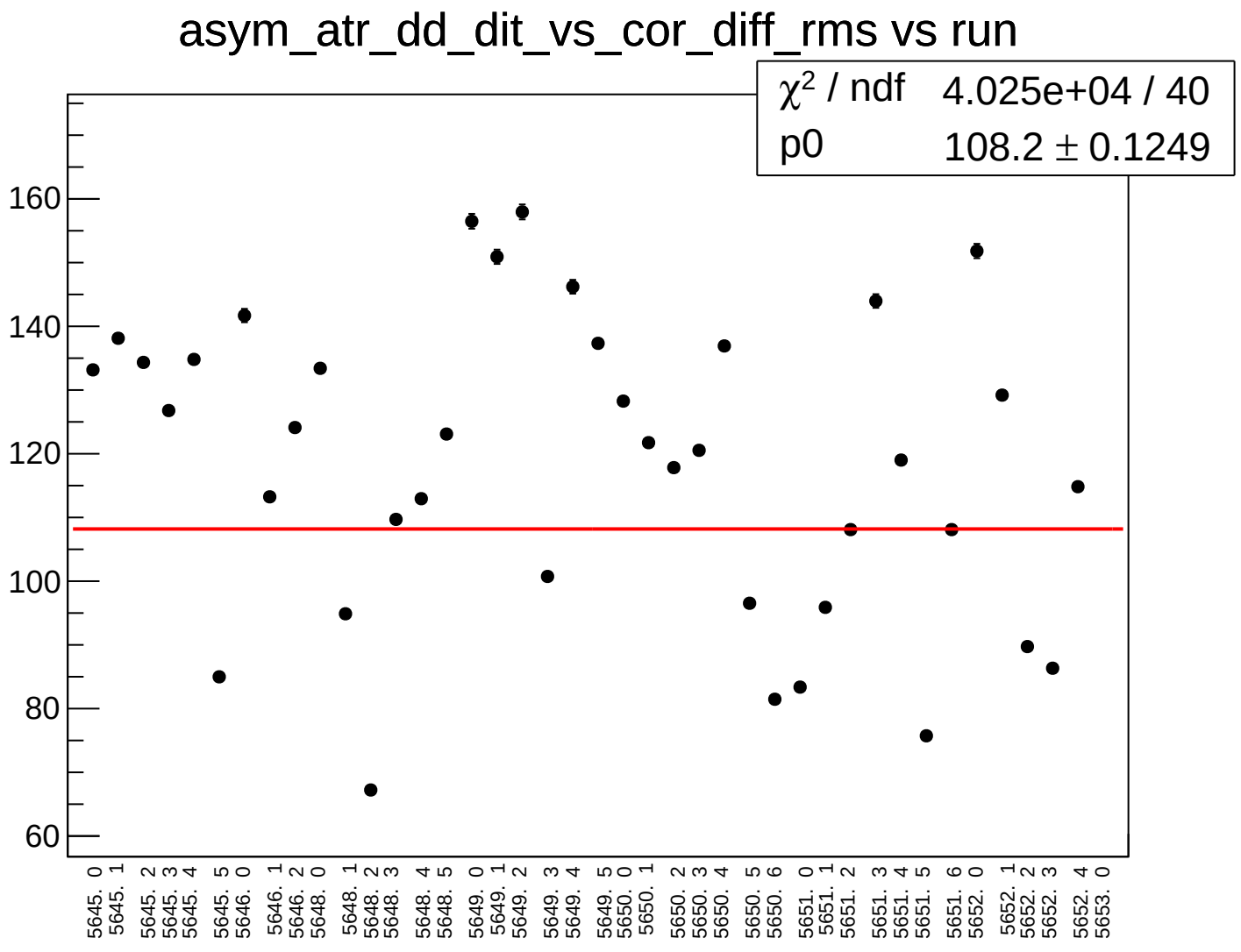

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.29 / 40
p0 5.669e−13 ± 3.037e−13
0.015
0.01
0.005
0
−0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.02
Std Dev 12.52
1.5
1
0.5
0
−0.5
−1
−1.5

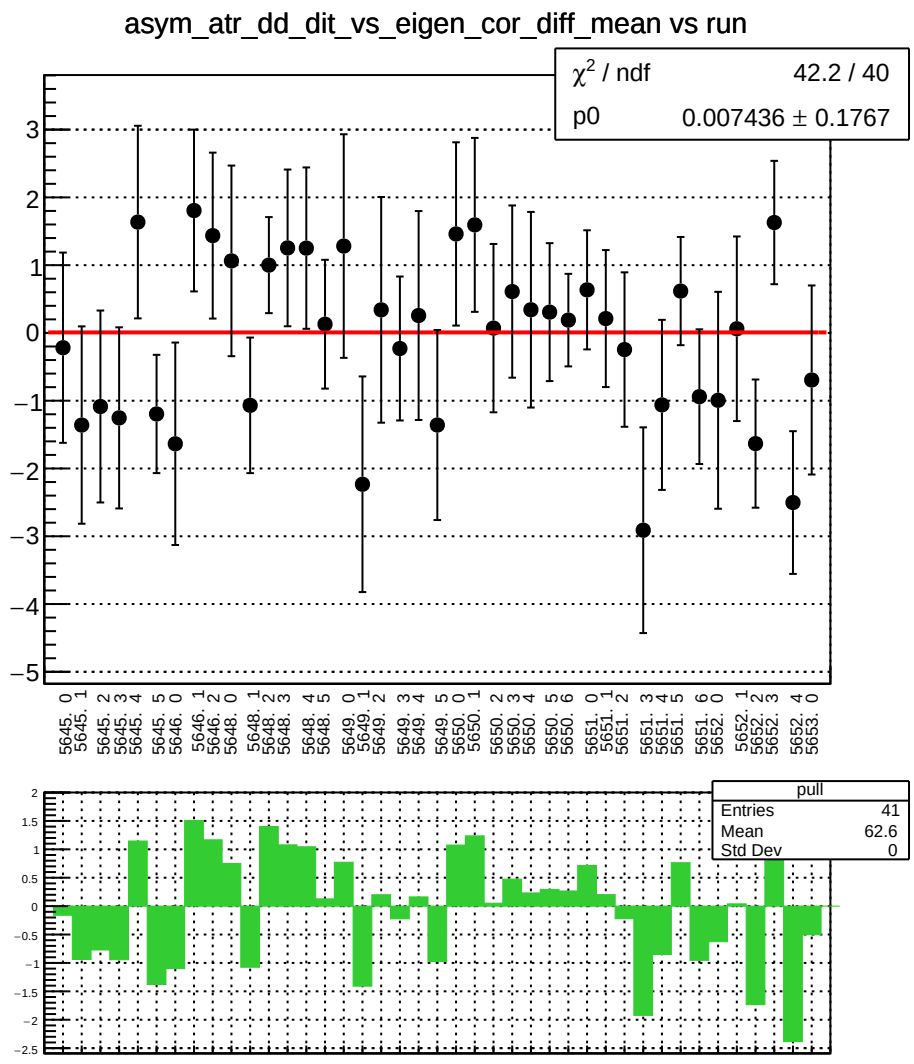

pull1D
Entries 41
Mean 0.2234
Std Dev 0.7366
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

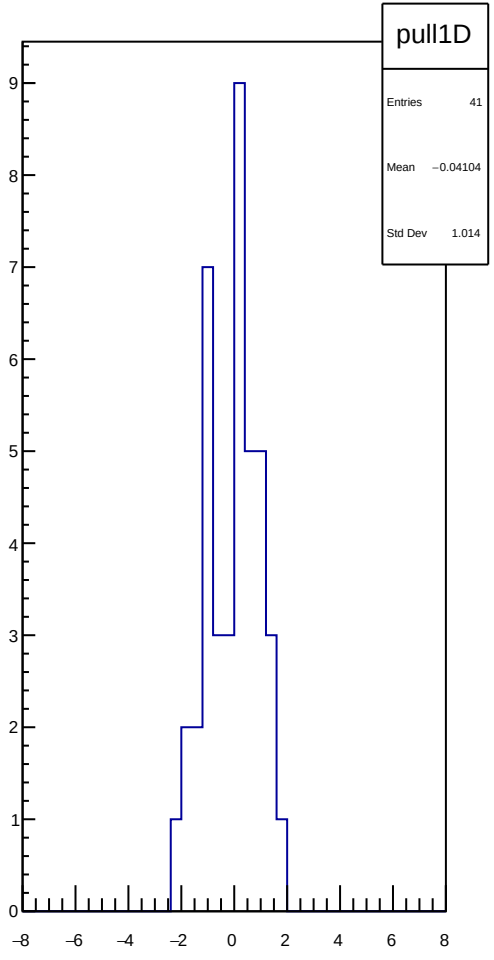

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.954e+05 / 40
p0 1.166e−10 ± 2.147e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

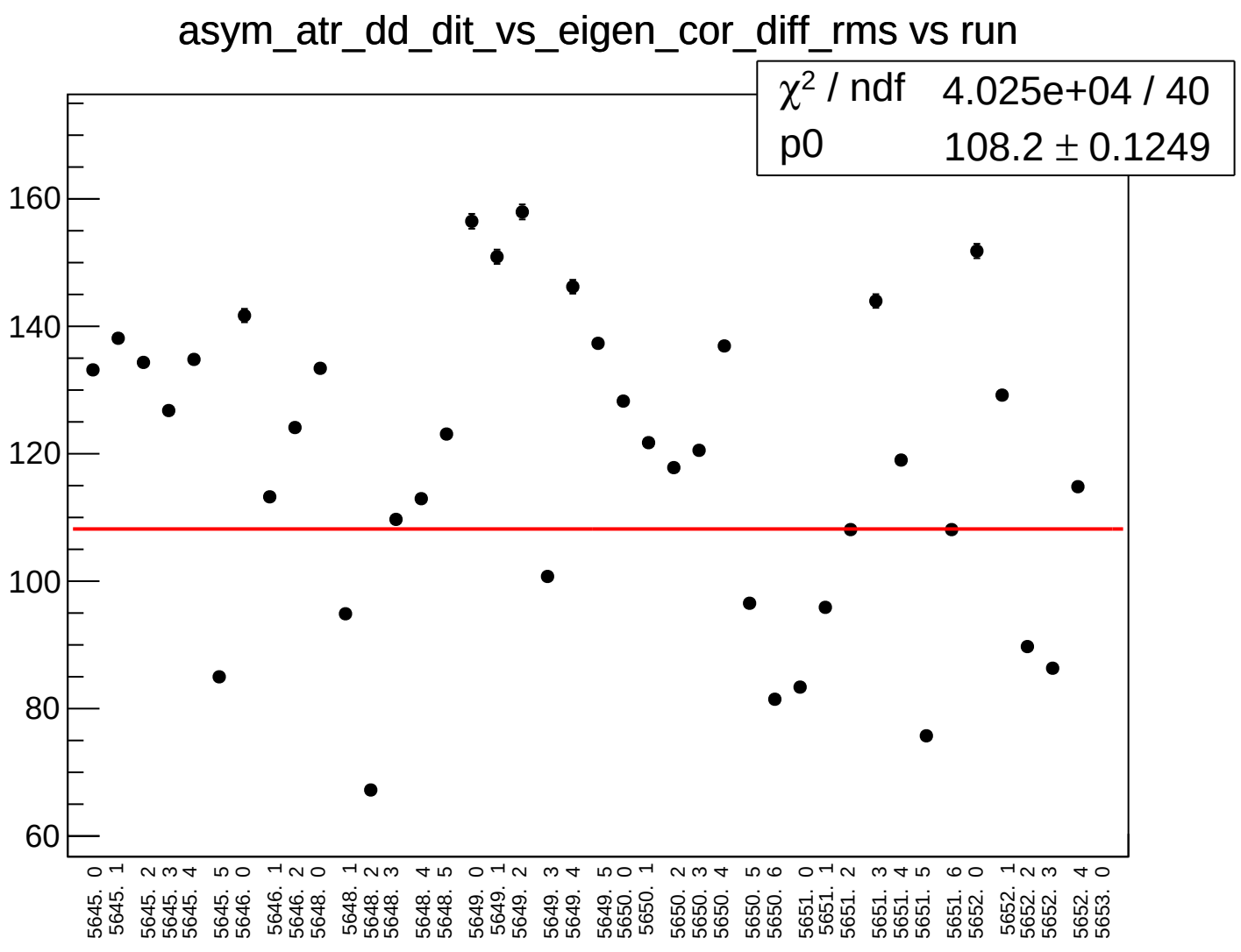

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.2 / 40
p0 0.007436 ± 0.1767
pull
Entries 41
Mean 62.6
Std Dev 0

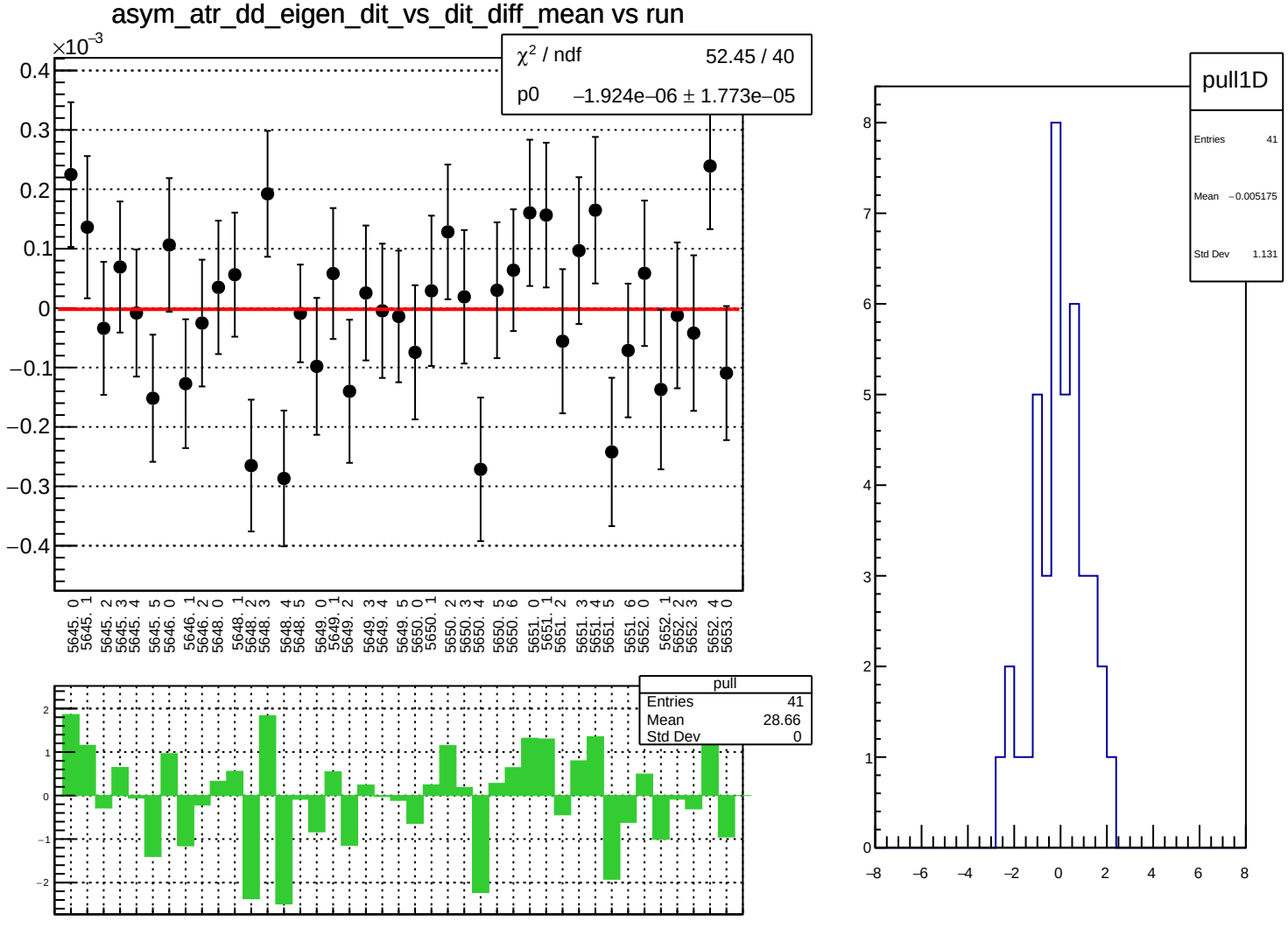

pull1D
Entries 41
Mean −0.04104
Std Dev 1.014

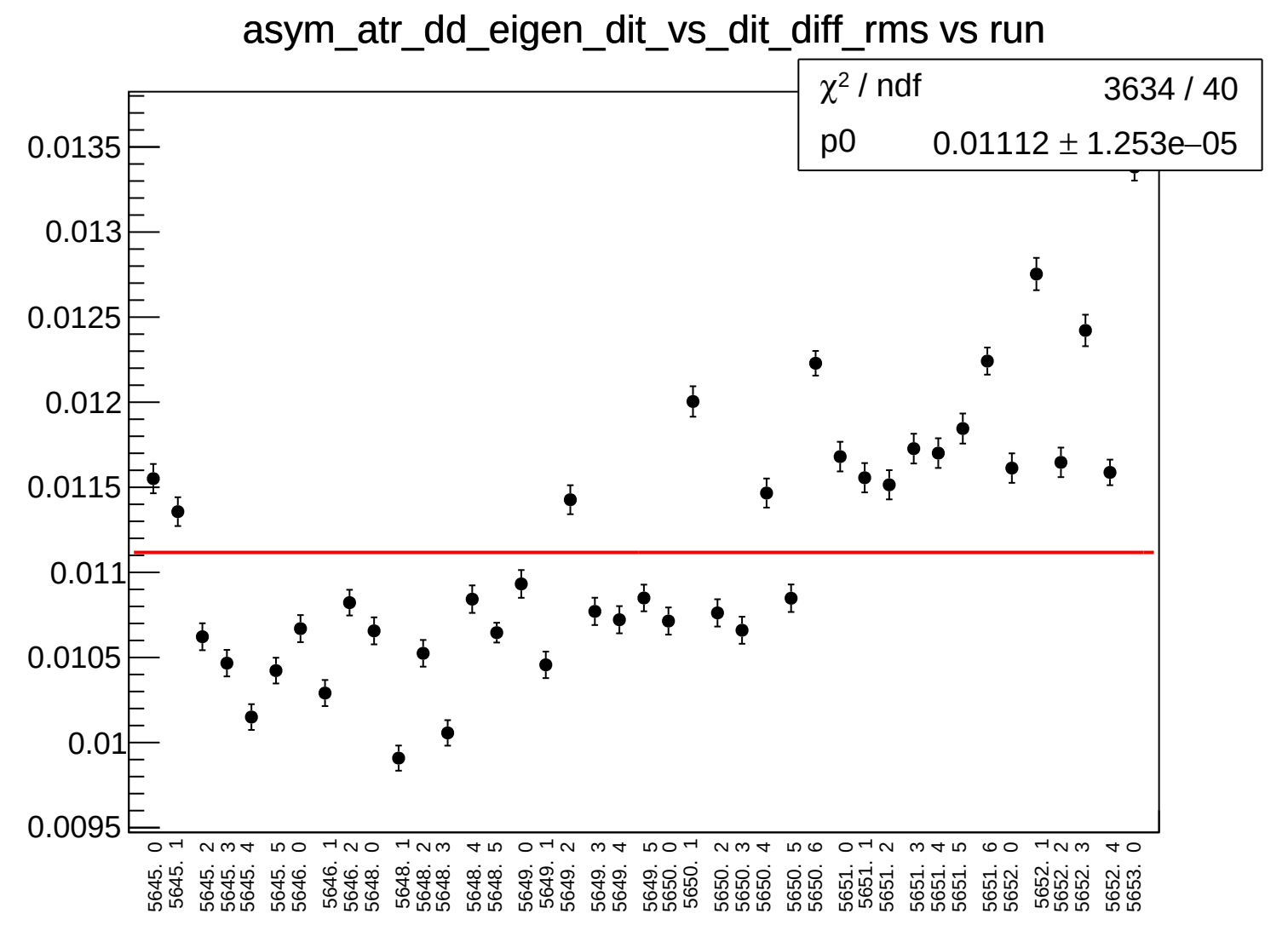

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.025e+04 / 40
p0 108.2 ± 0.1249
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

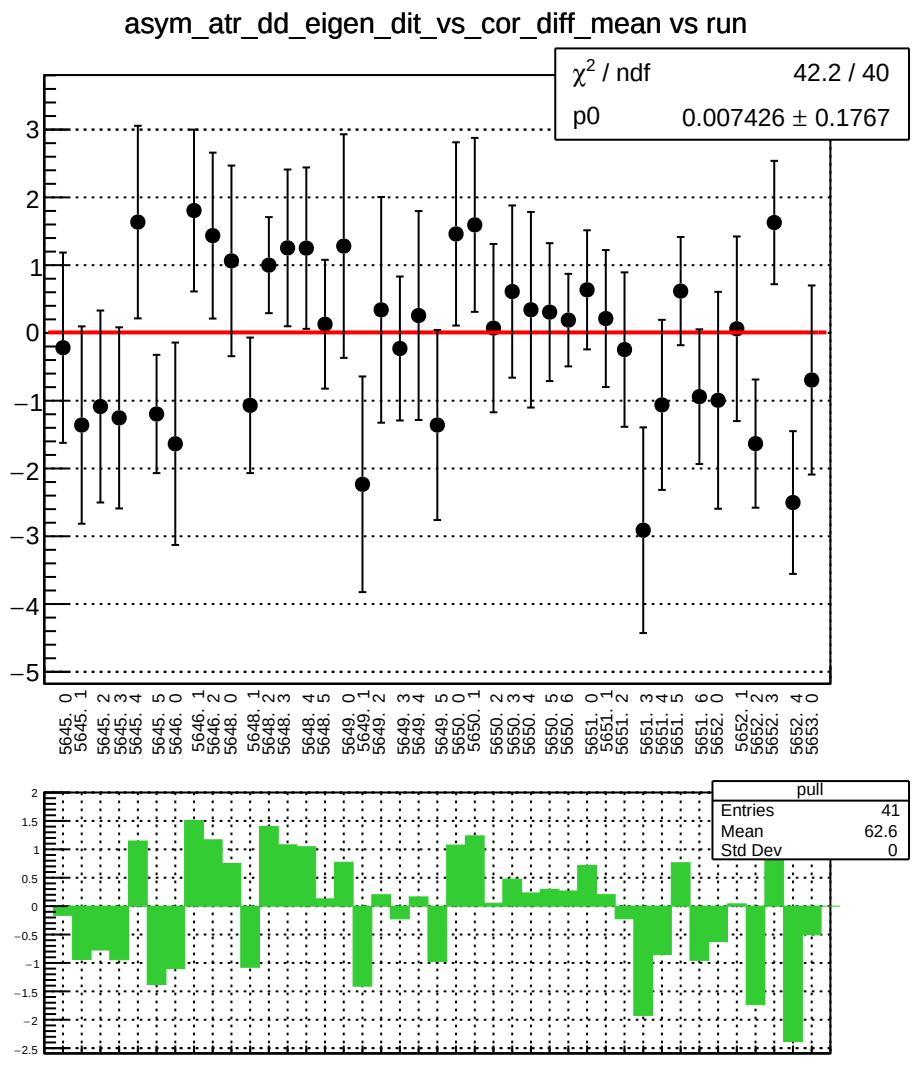

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.2 / 40
p0 0.007436 ± 0.1767
pull
Entries 41
Mean 62.6
Std Dev 0

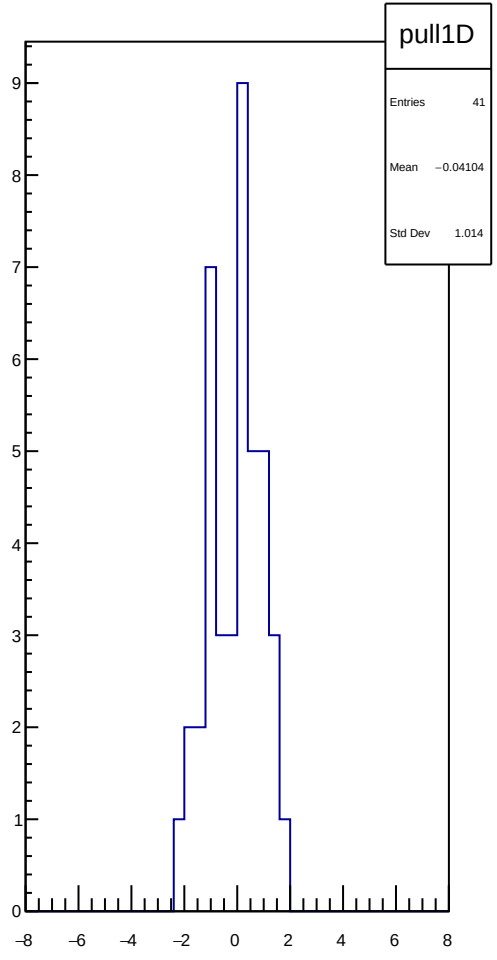

pull1D
Entries 41
Mean −0.04104
Std Dev 1.014

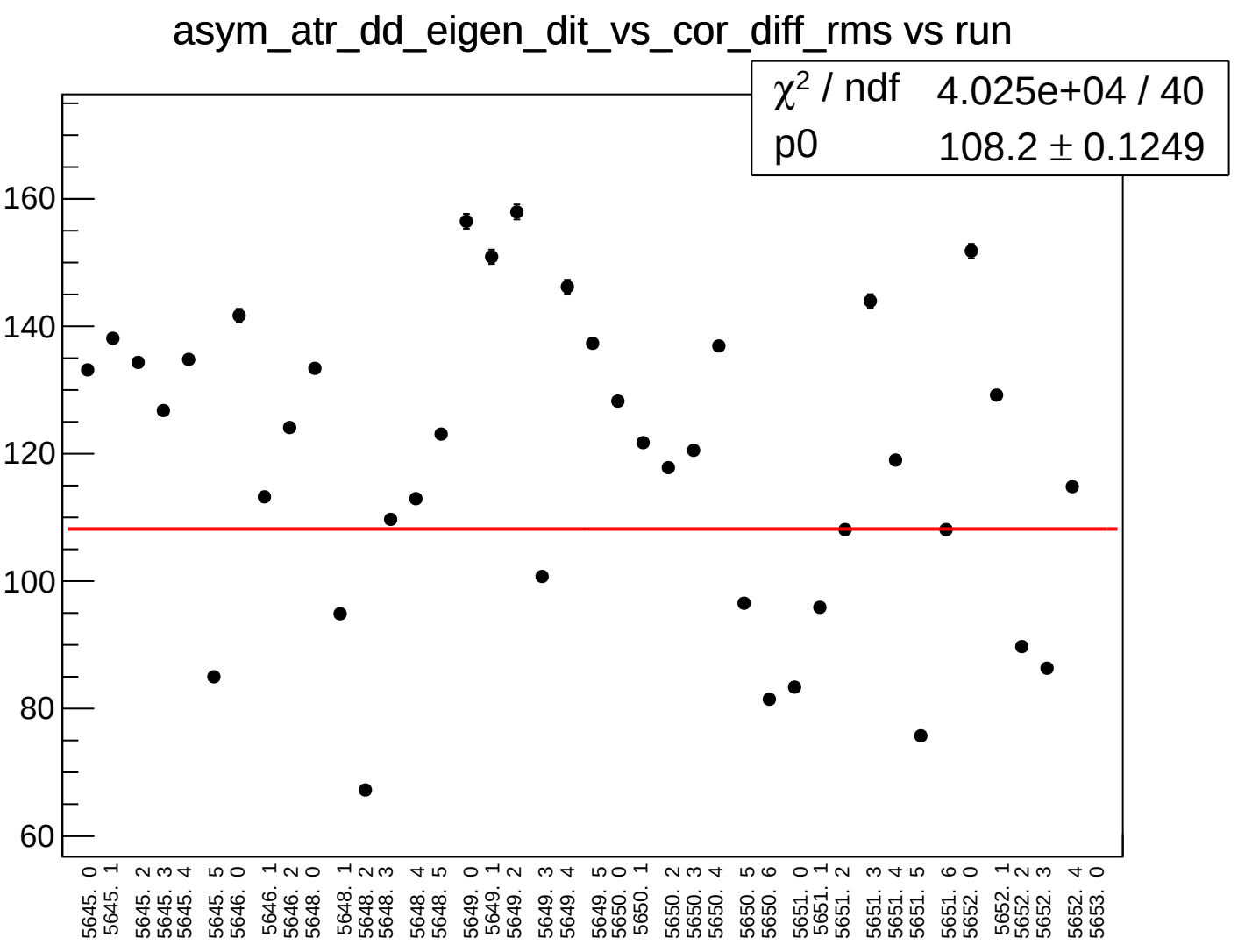

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.025e+04 / 40
p0 108.2 ± 0.1249
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

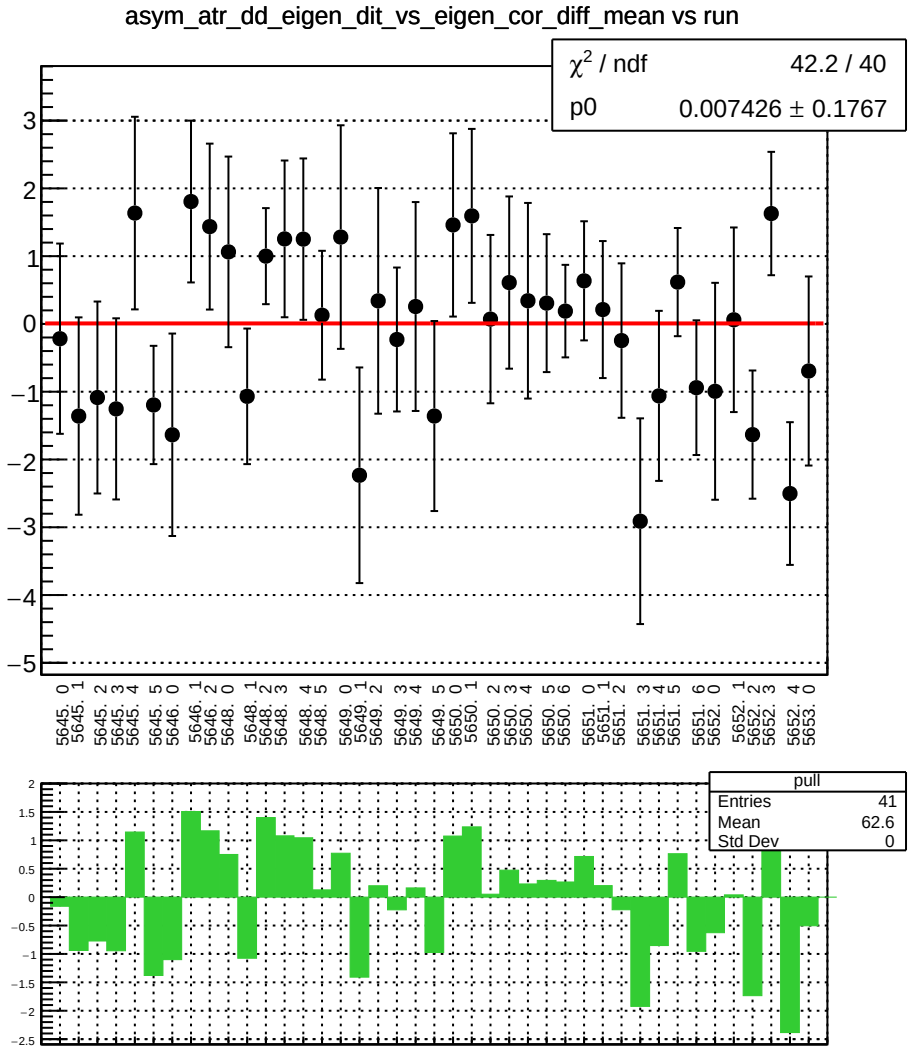

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 52.45 / 40
p0 −1.924e−06 ± 1.773e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.005175
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

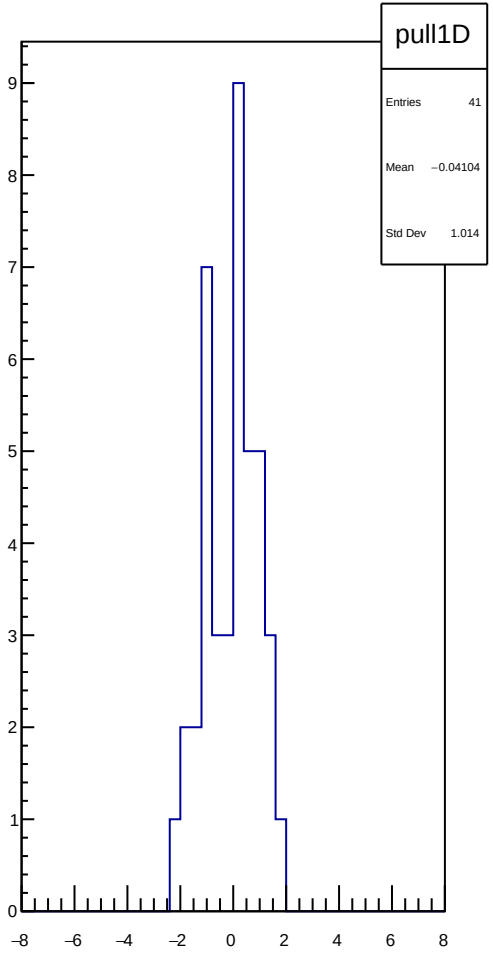

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3634 / 40
p0 0.01112 ± 1.253e–05
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

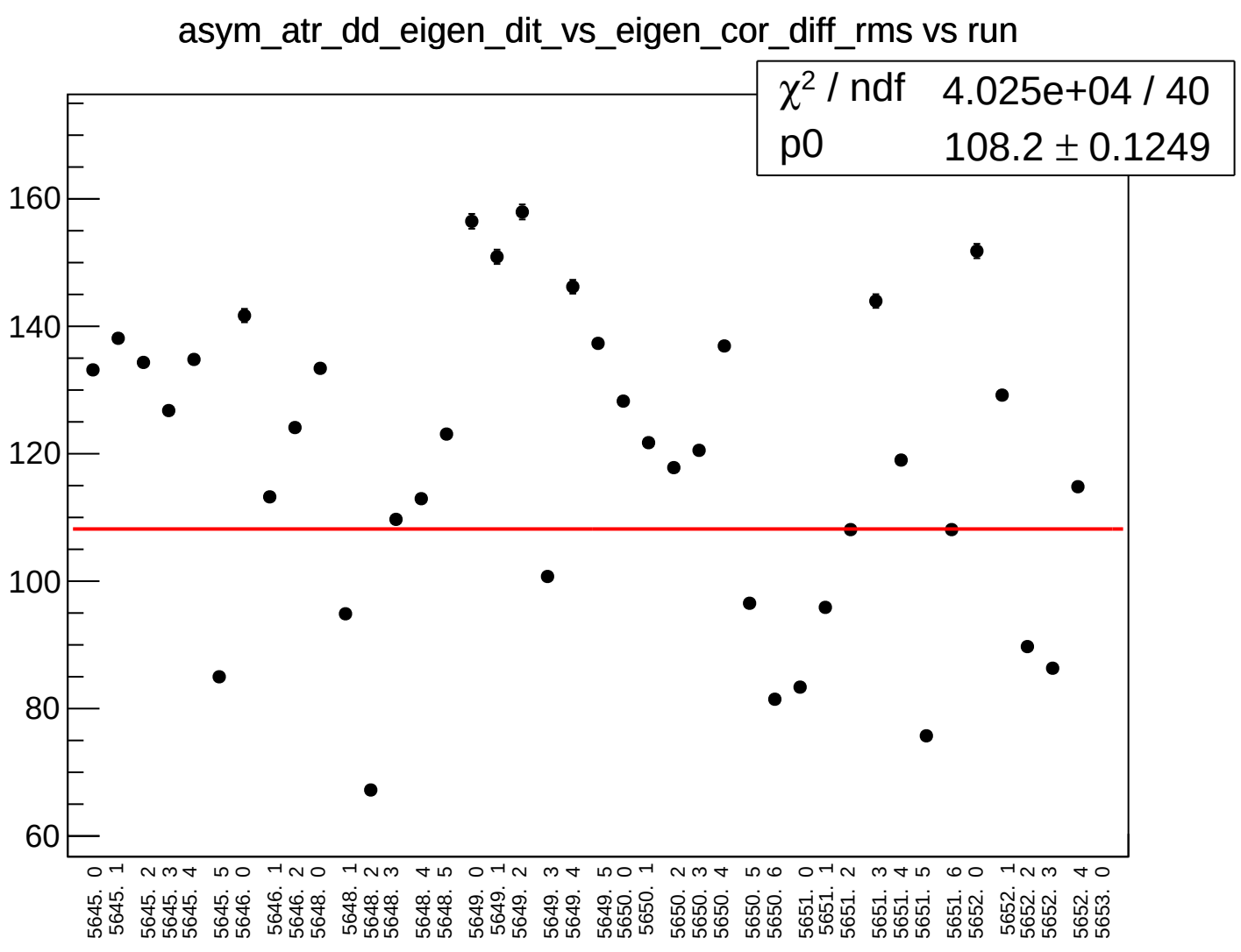

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.2 / 40
p0 0.007426 ± 0.1767
pull
Entries 41
Mean 62.6
Std Dev 0

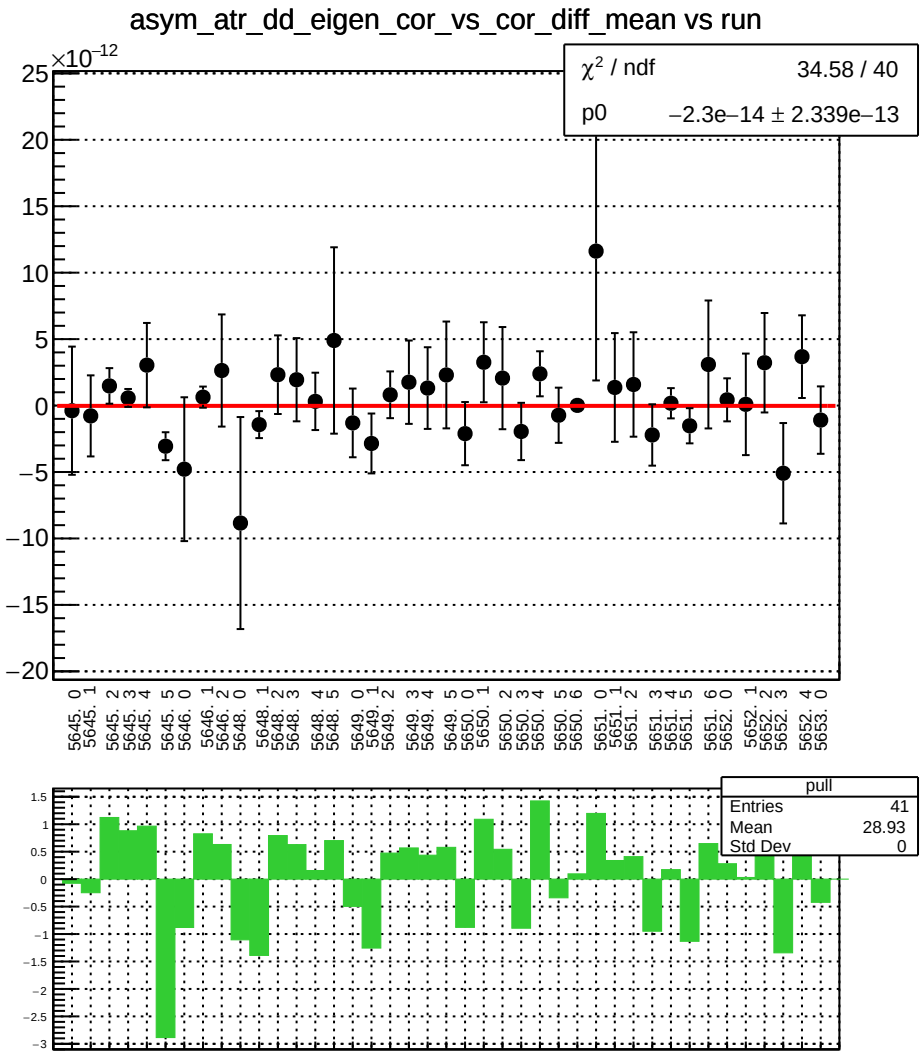

pull1D
Entries 41
Mean −0.04104
Std Dev 1.014

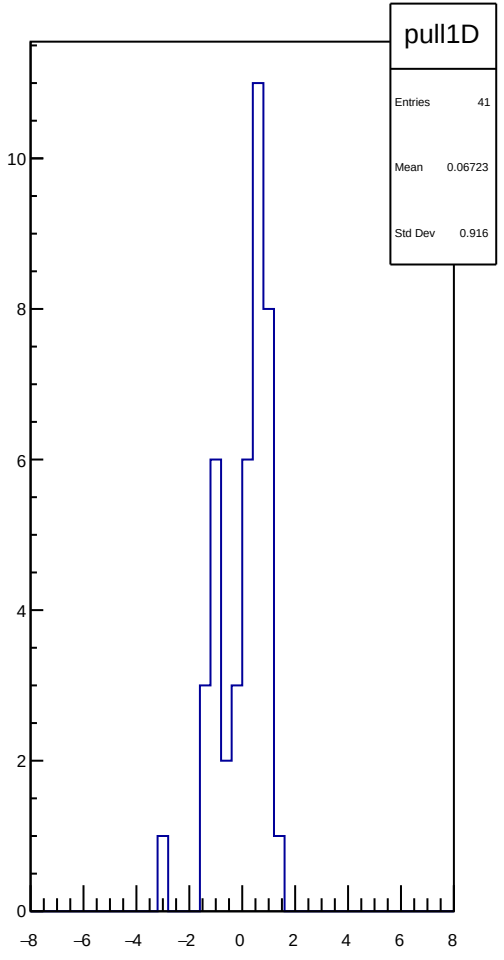

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.025e+04 / 40
p0 108.2 ± 0.1249
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

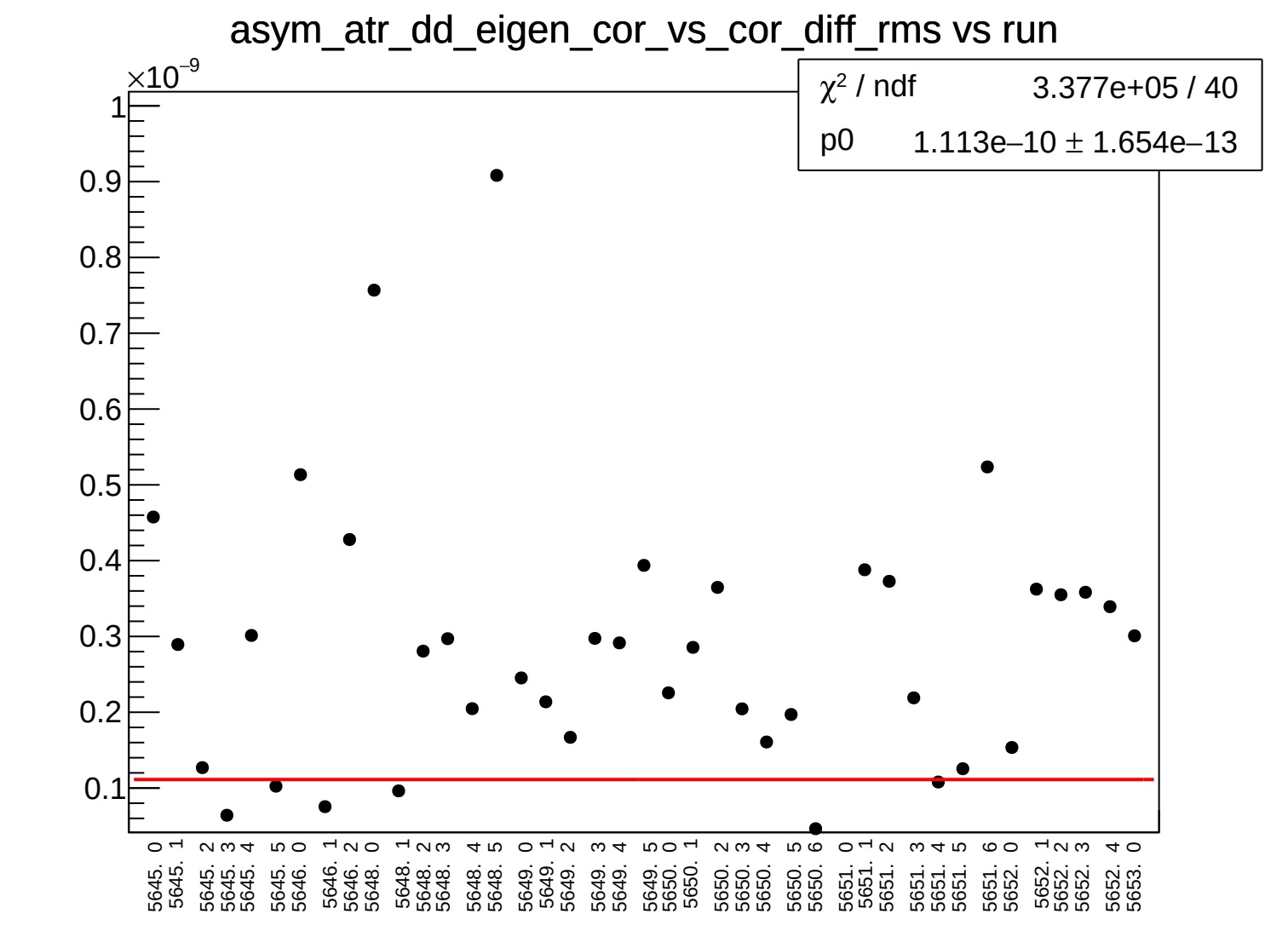

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.2 / 40
p0 0.007426 ± 0.1767
pull
Entries 41
Mean 62.6
Std Dev 0

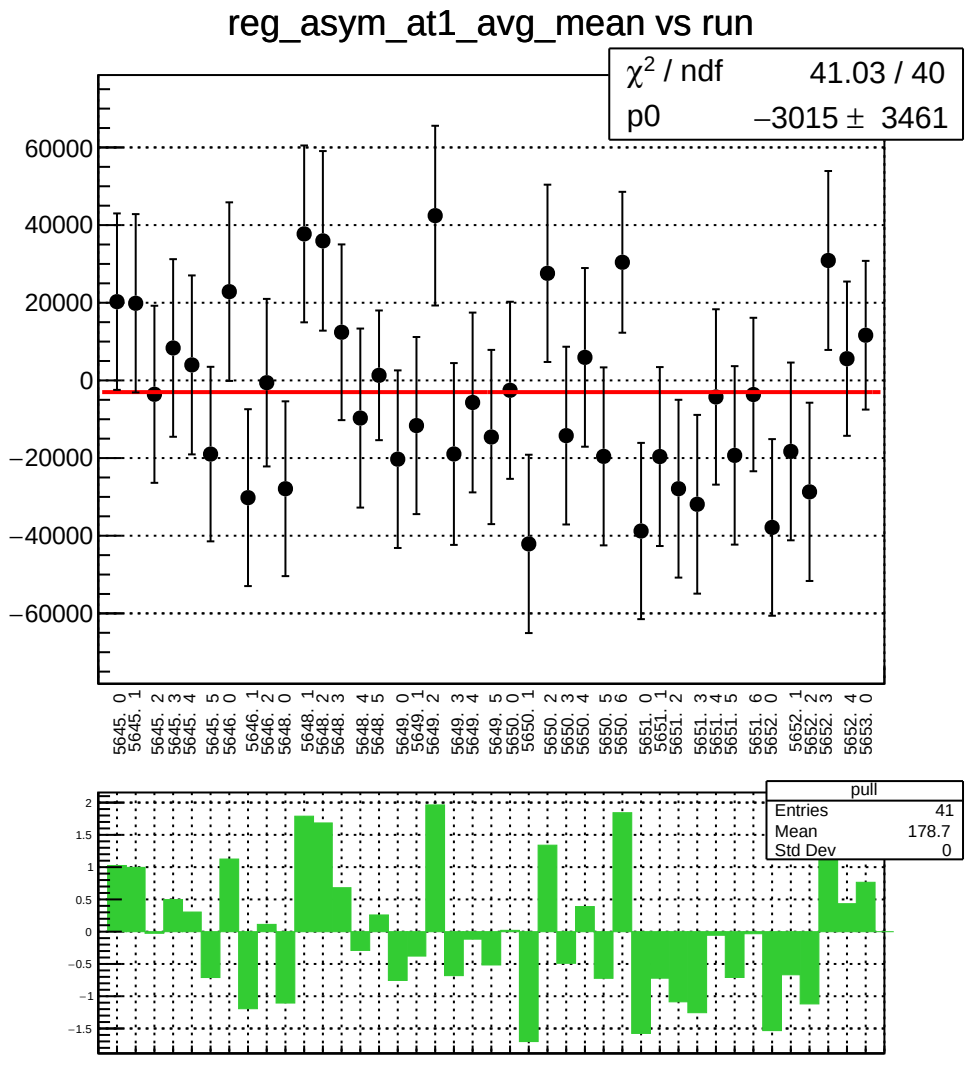

pull1D
Entries 41
Mean −0.04104
Std Dev 1.014

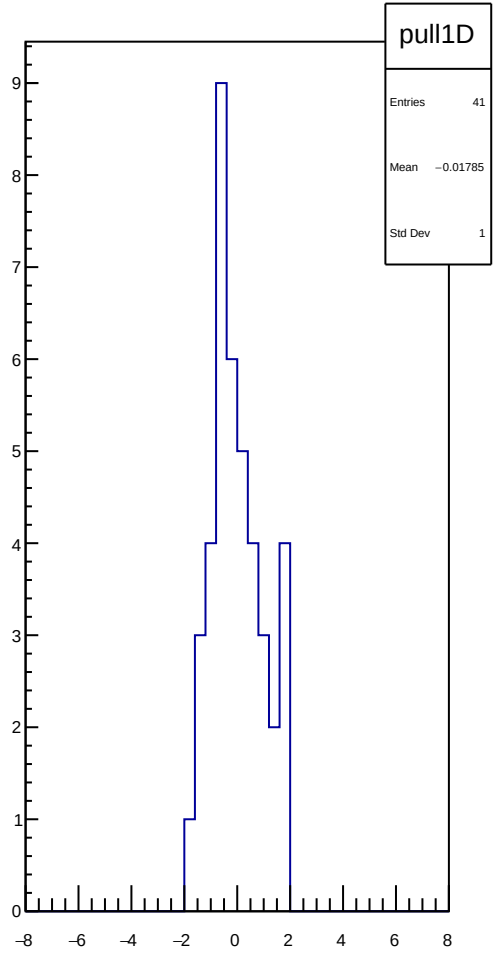

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.025e+04 / 40
p0 108.2 ± 0.1249
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

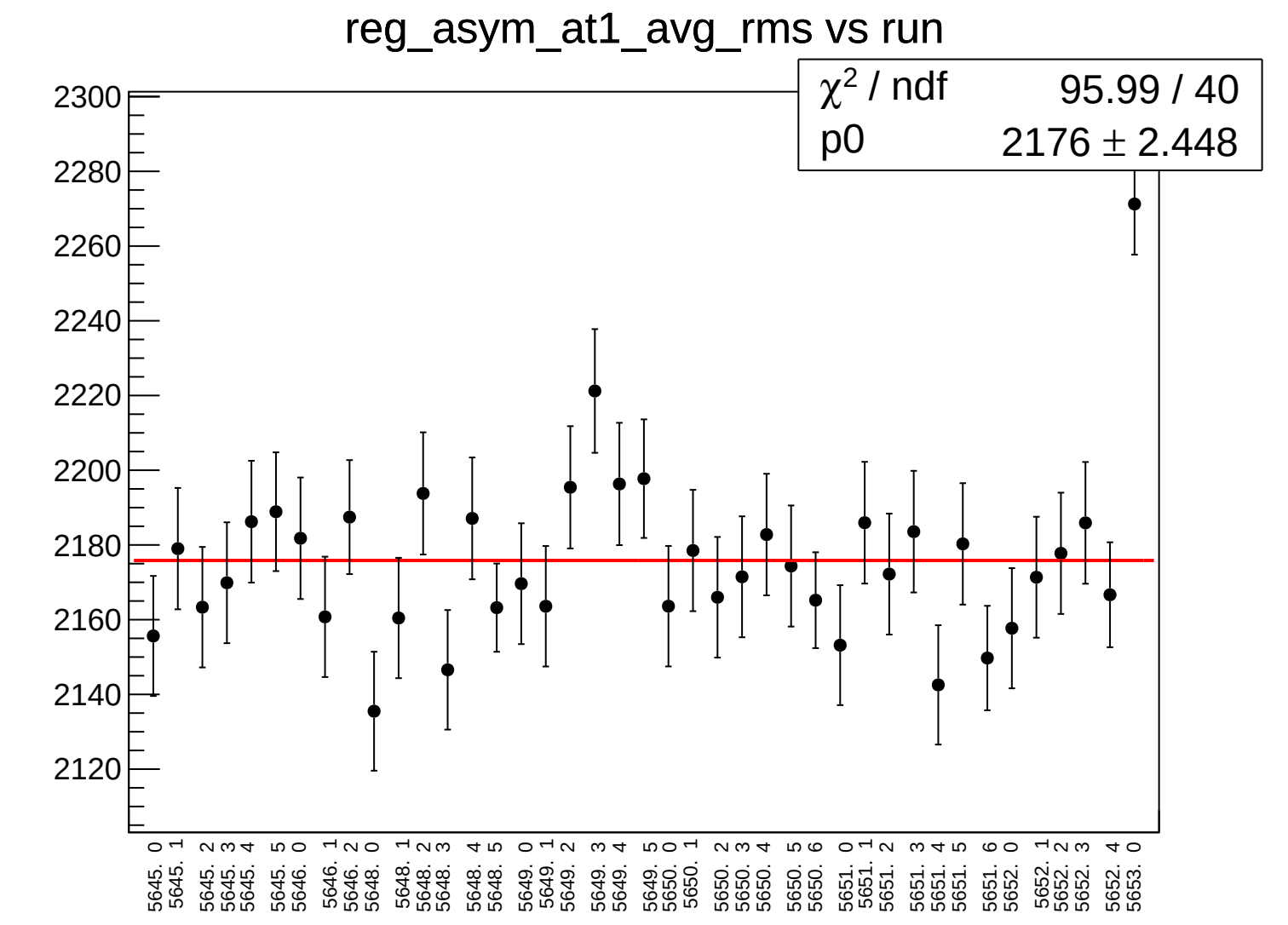

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.58 / 40
p0 −2.3e−14 ± 2.339e−13
pull
Entries 41
Mean 28.93
Std Dev 0

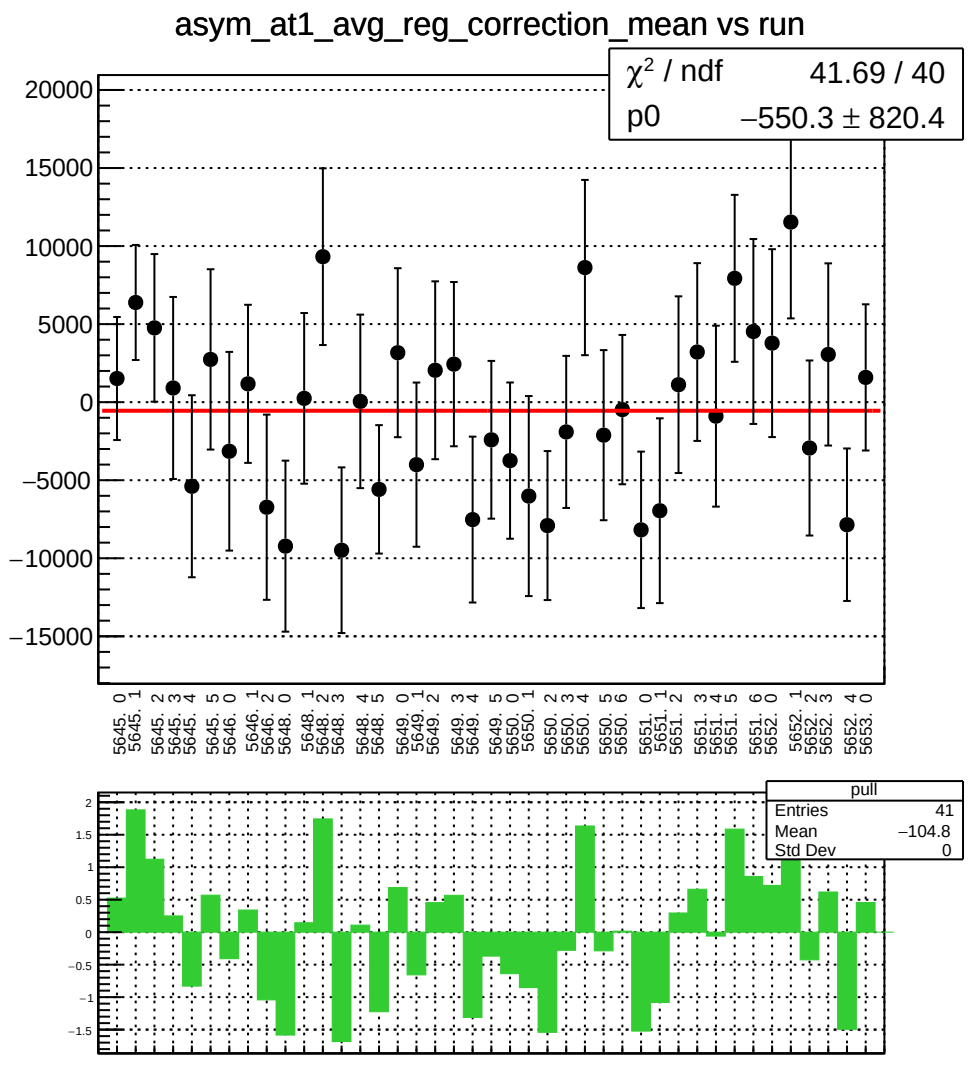

pull1D
Entries 41
Mean 0.06723
Std Dev 0.916

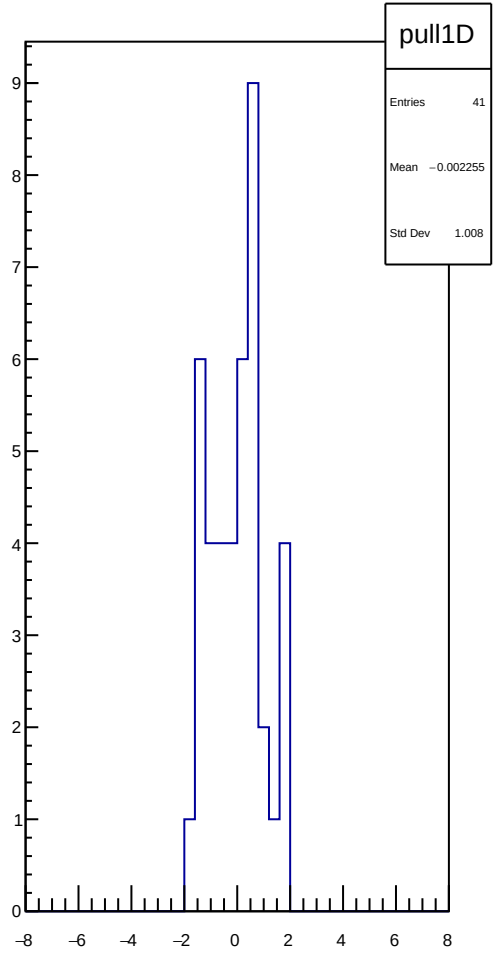

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.377e+05 / 40
p0 1.113e−10 ± 1.654e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

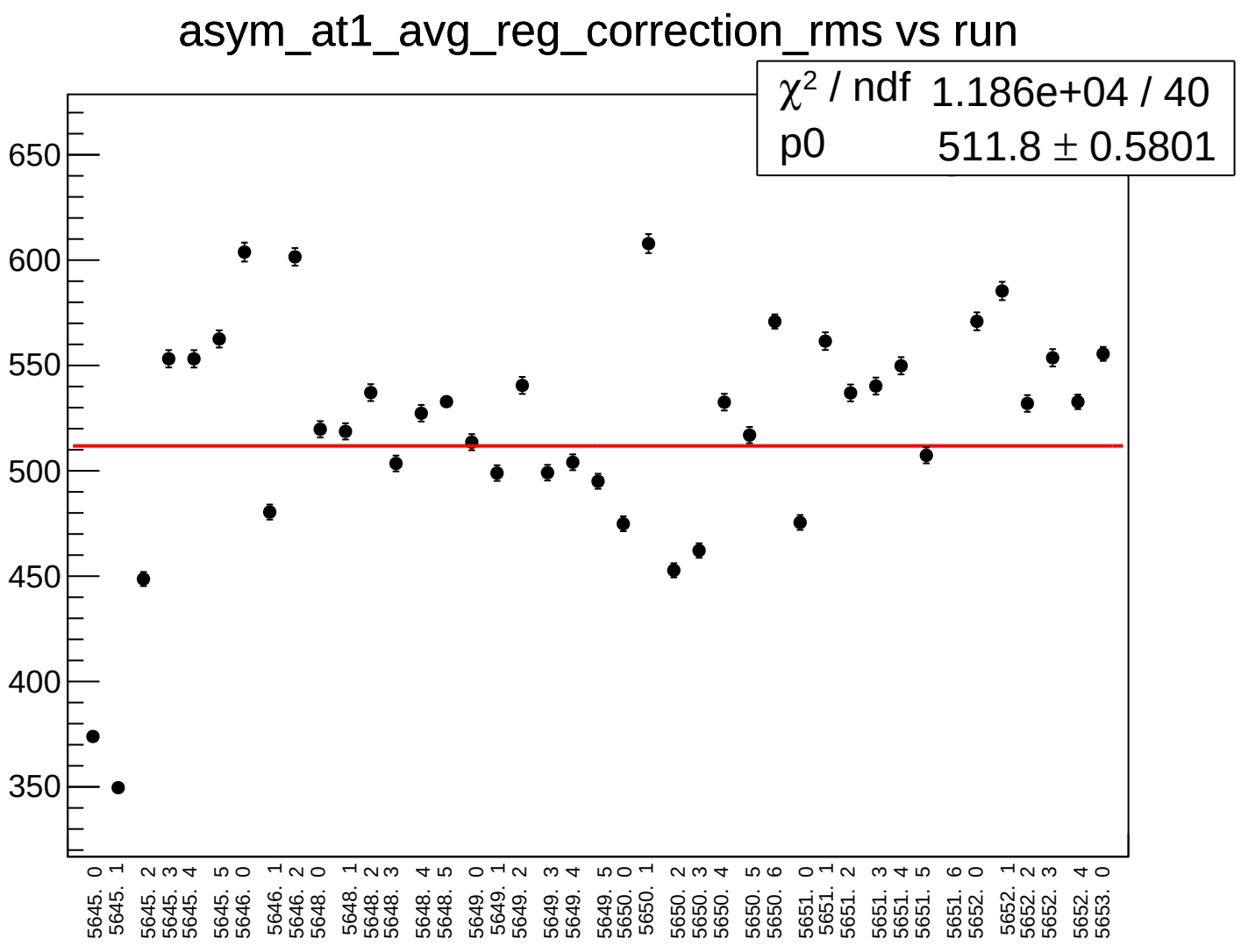

reg_asym_at1_avg_mean vs run
χ² / ndf 41.03 / 40
p0 −3015 ± 3461
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 178.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

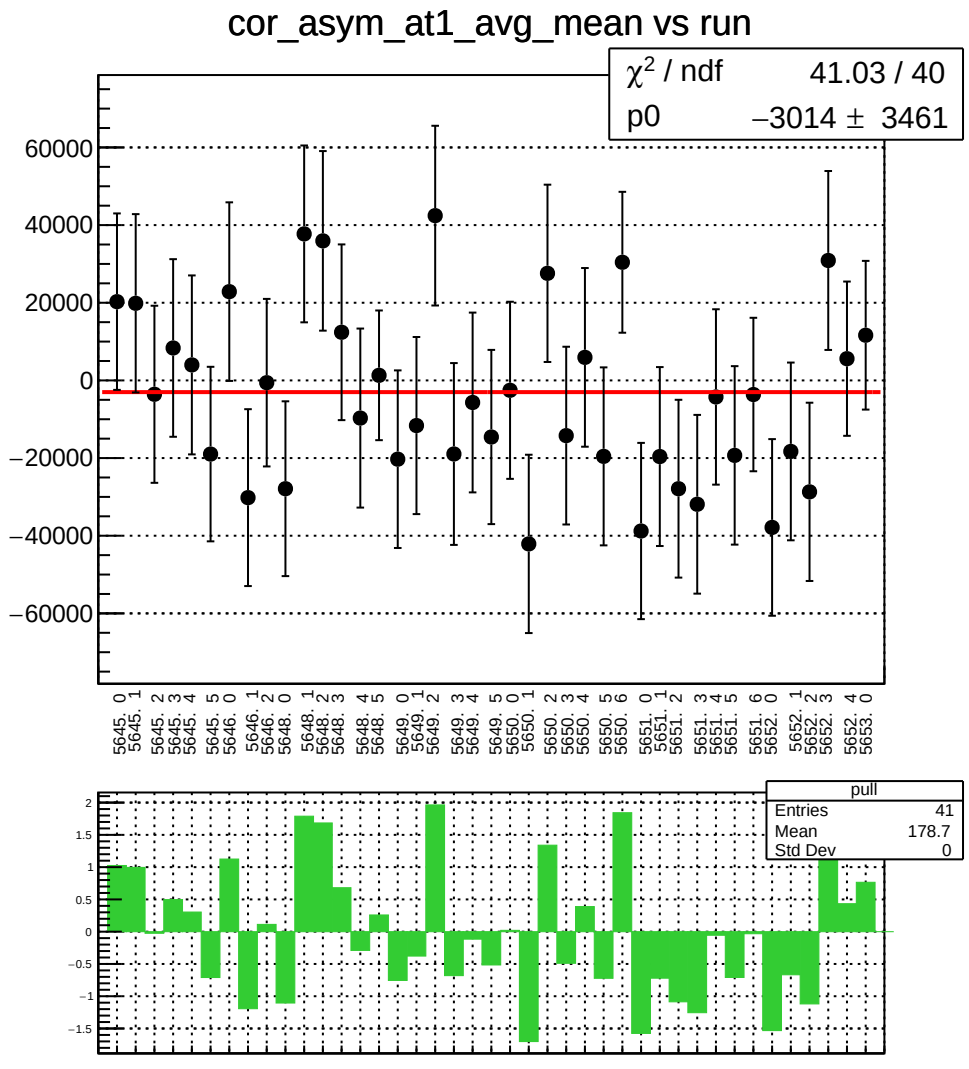

pull1D
Entries 41
Mean −0.01785
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

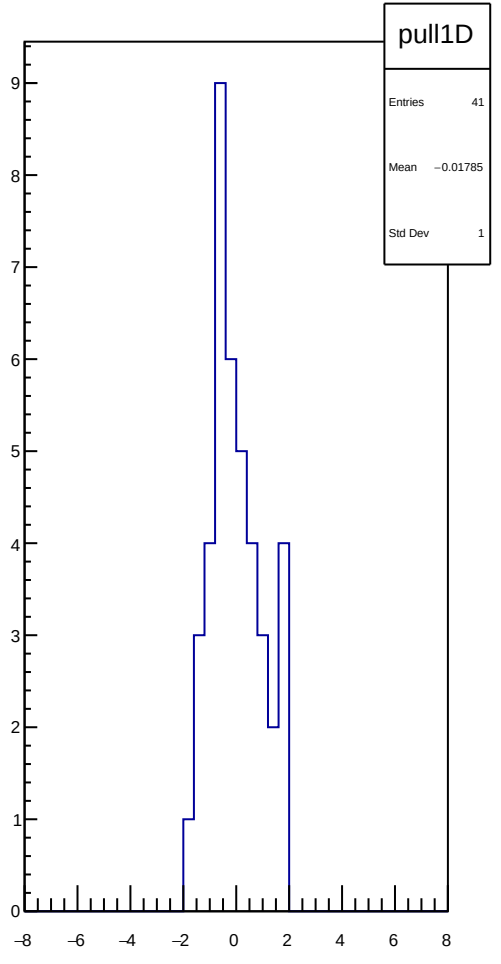

reg_asym_at1_avg_rms vs run
χ² / ndf 95.99 / 40
p0 2176 ± 2.448
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

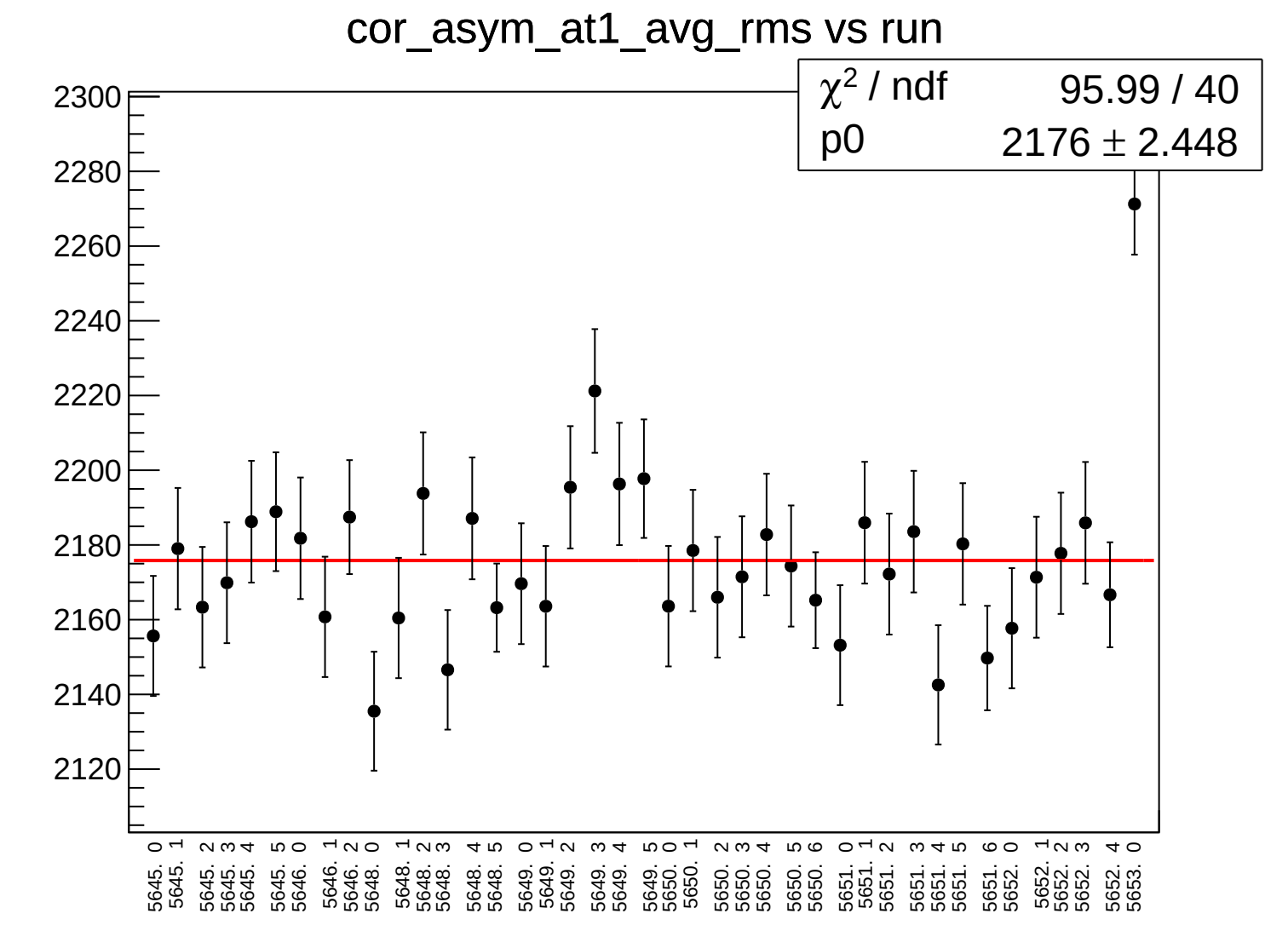

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 41.69 / 40
p0 −550.3 ± 820.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

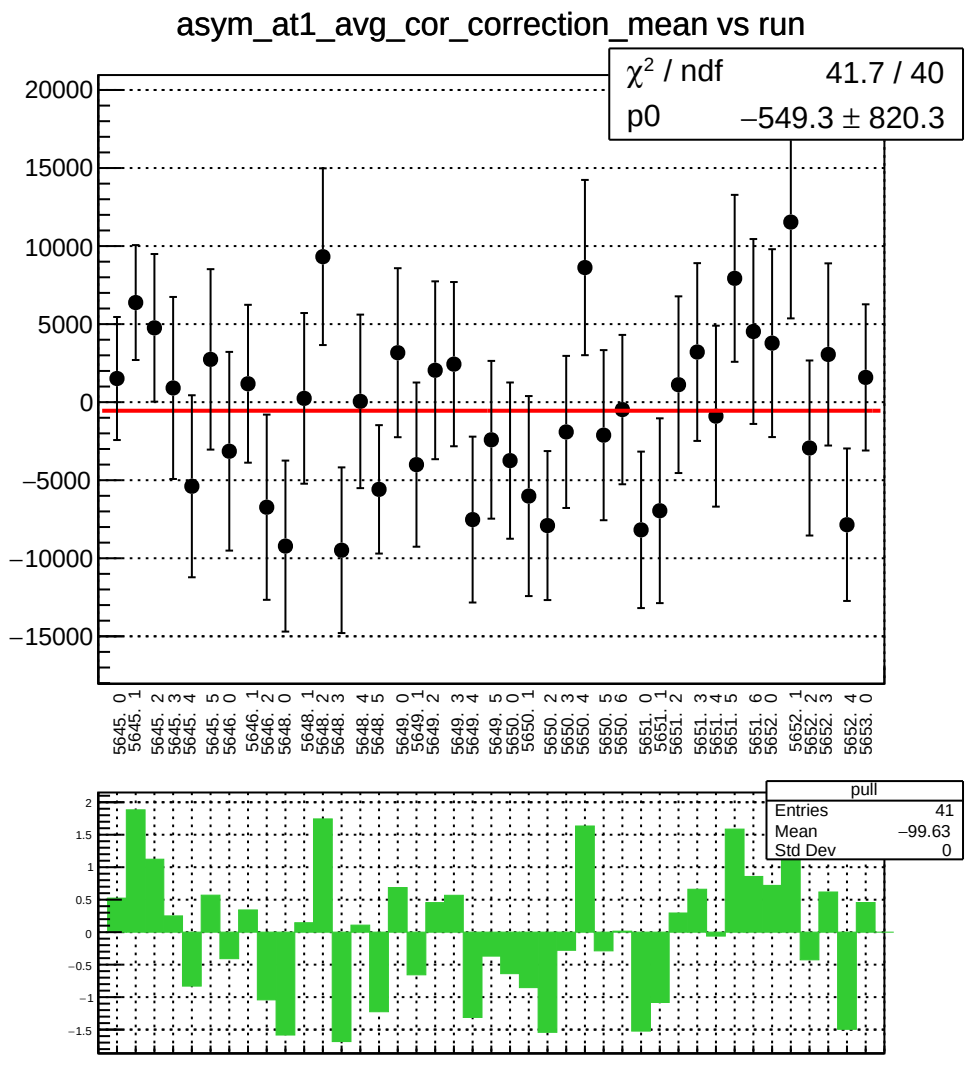

pull1D
Entries 41
Mean −0.002255
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

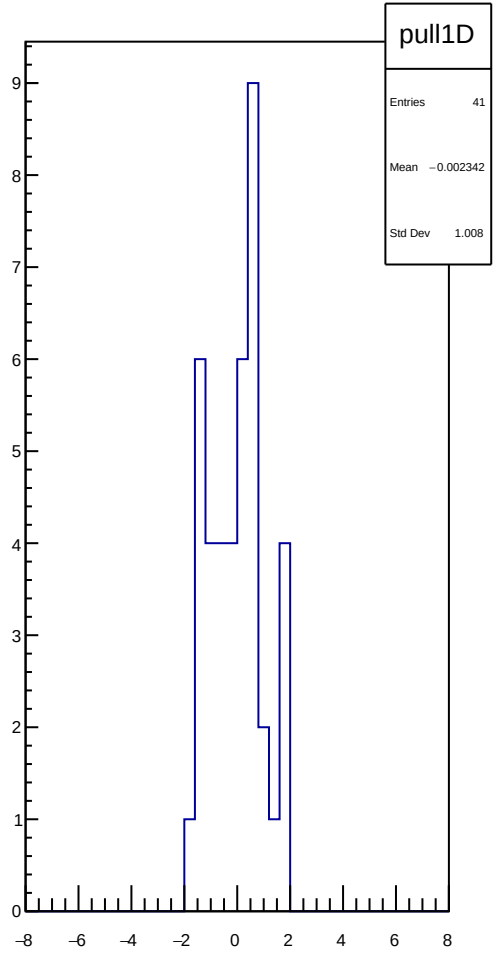

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.186e+04 / 40
p0 511.8 ± 0.5801
650
600
550
500
450
400
350
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

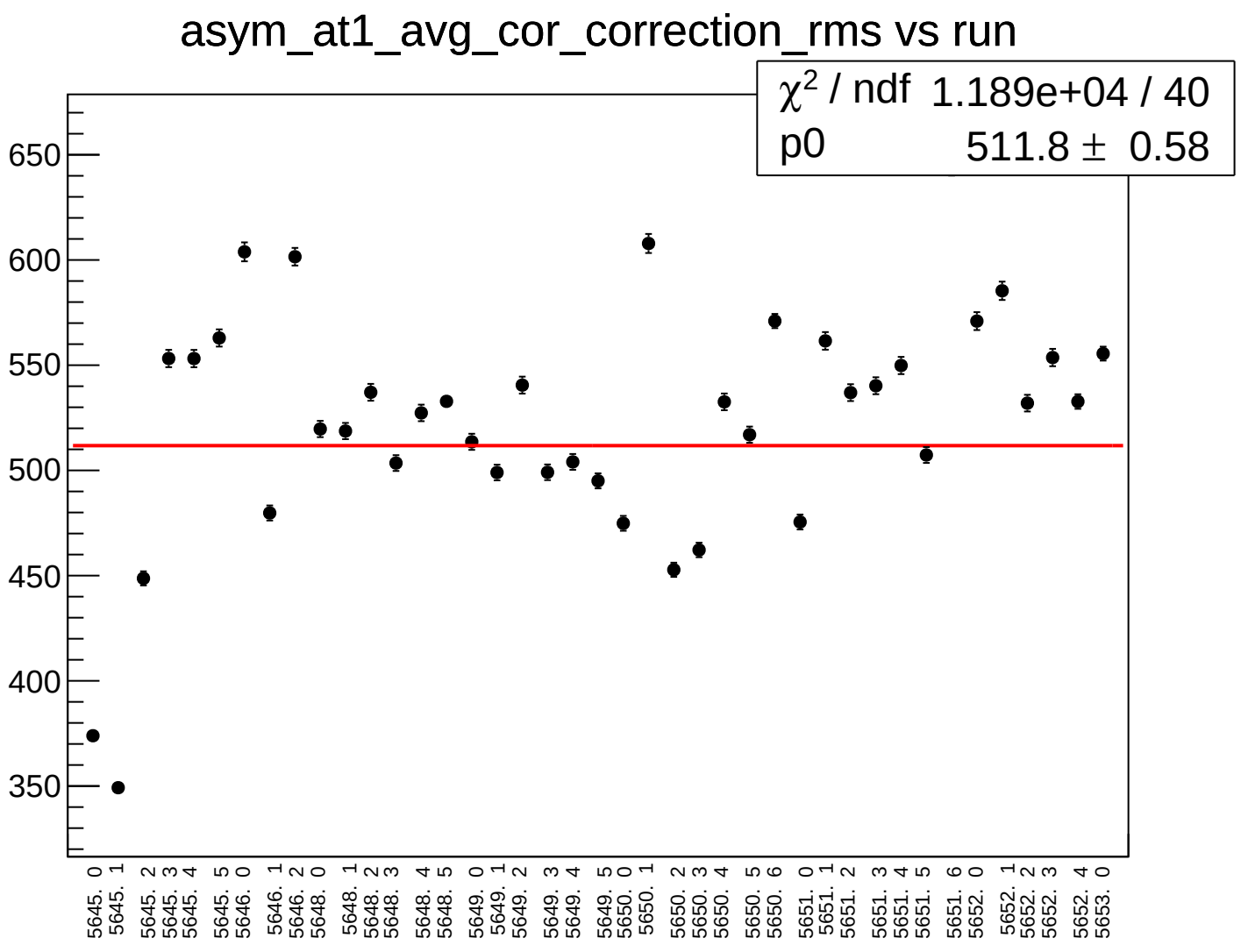

cor_asym_at1_avg_mean vs run
χ² / ndf 41.03 / 40
p0 −3014 ± 3461
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 178.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

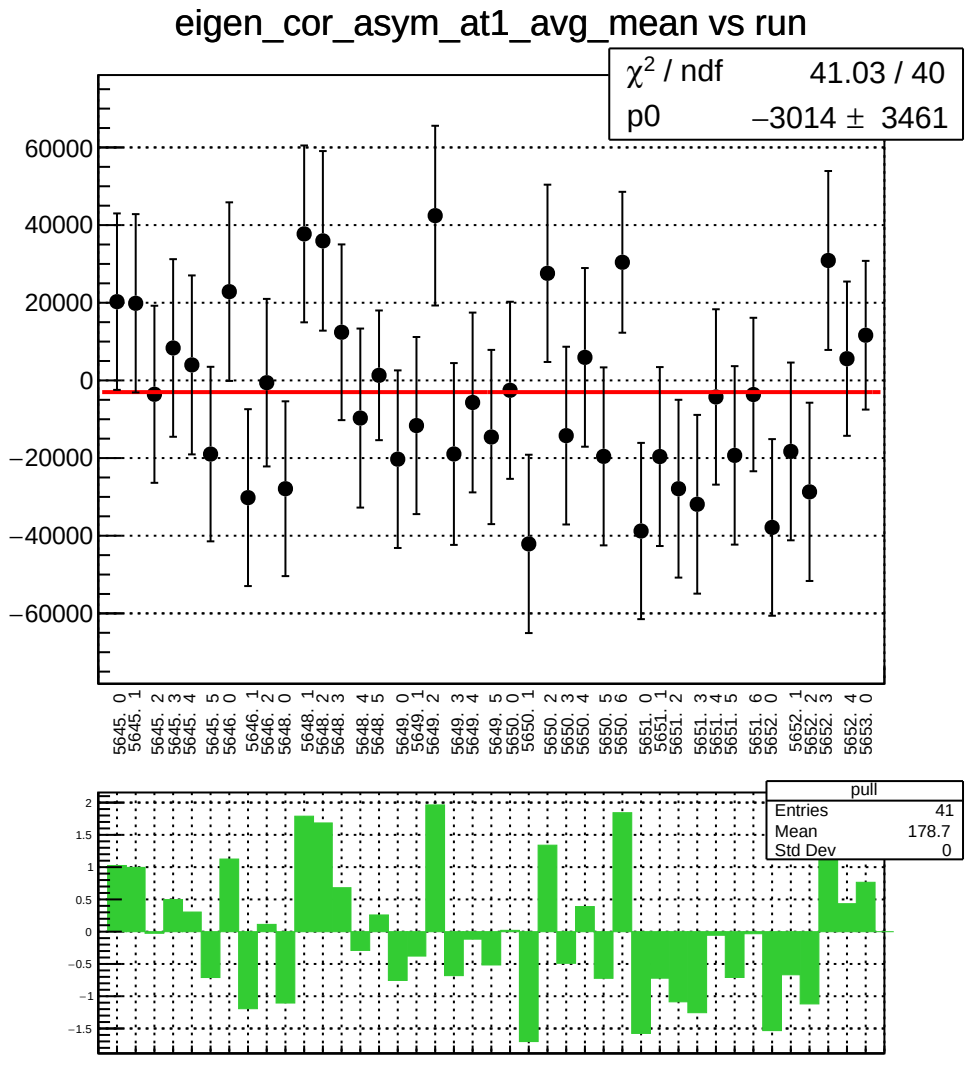

pull1D
Entries 41
Mean −0.01785
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

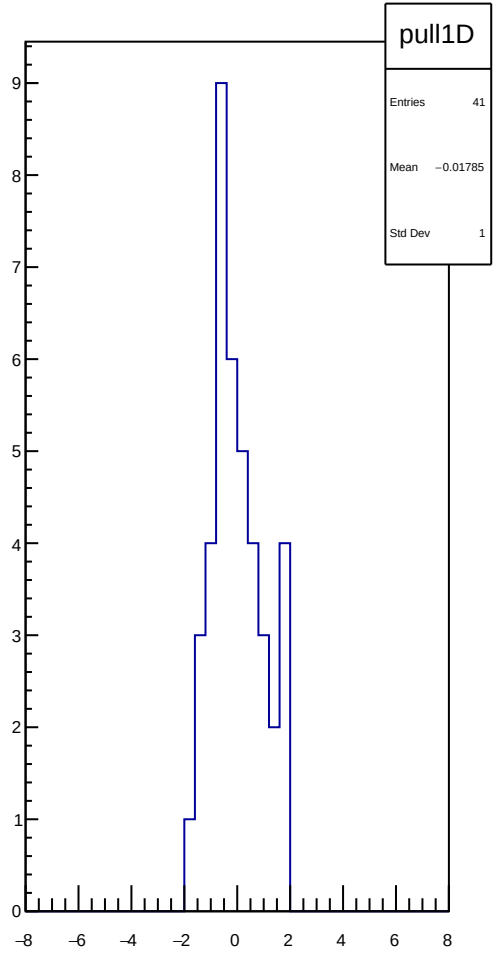

cor_asym_at1_avg_rms vs run
χ² / ndf 95.99 / 40
p0 2176 ± 2.448
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

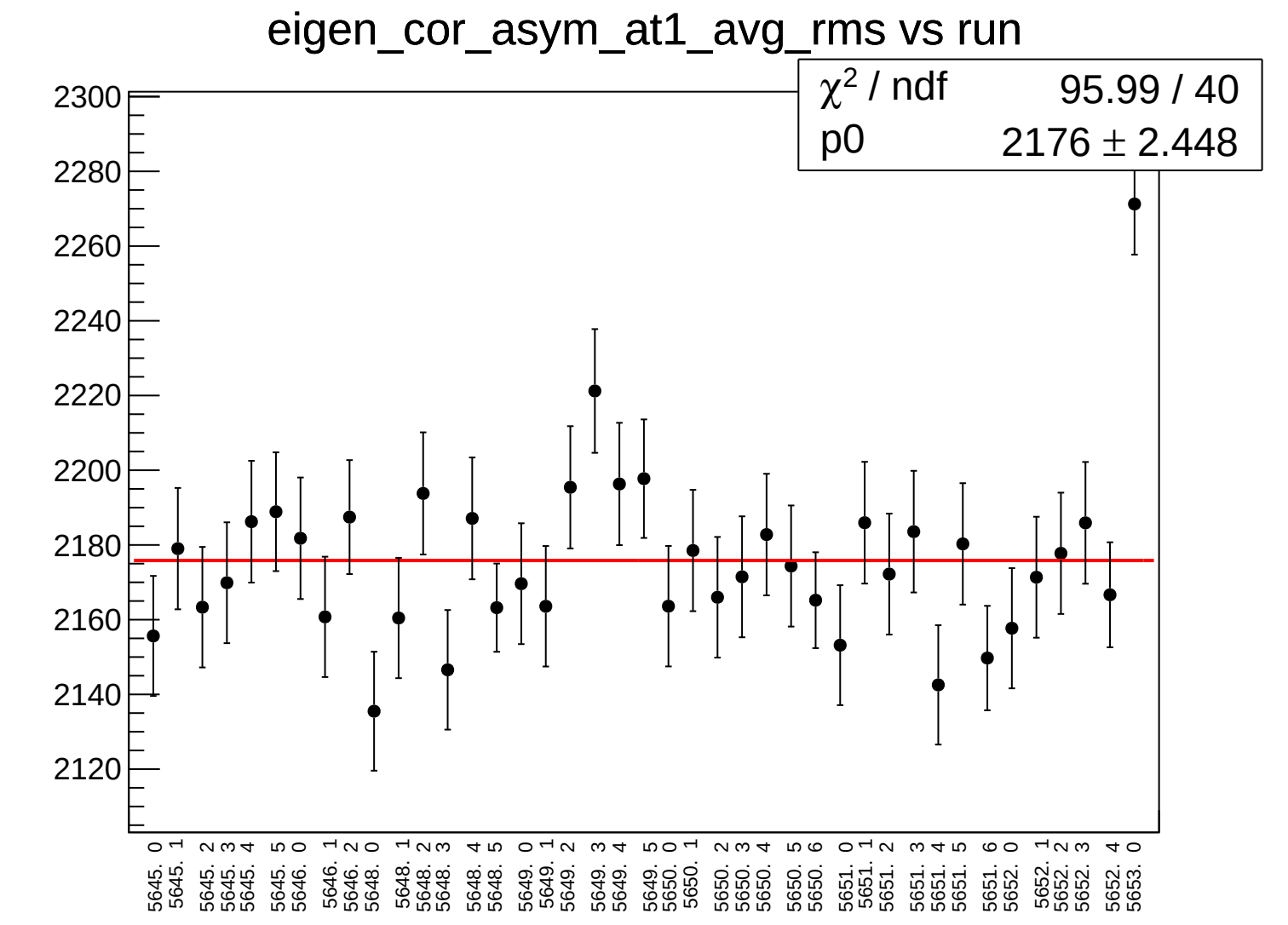

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 41.7 / 40
p0 −549.3 ± 820.3
20000
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −99.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

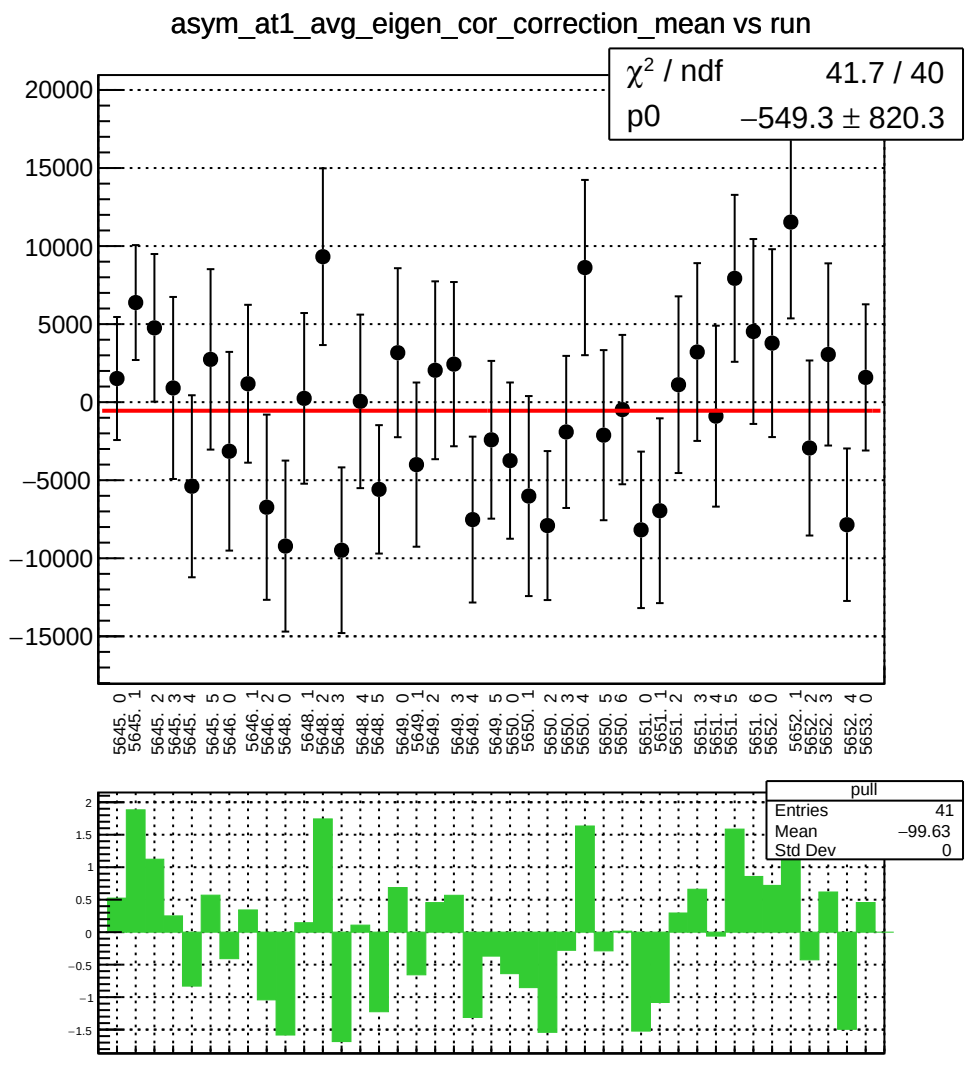

pull1D
Entries 41
Mean −0.002342
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

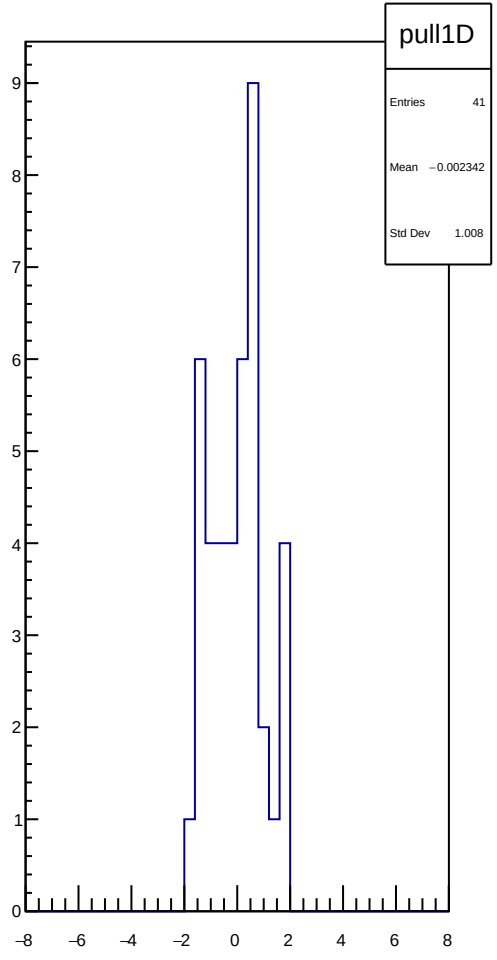

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 40
p0 511.8 ± 0.58
650
600
550
500
450
400
350
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

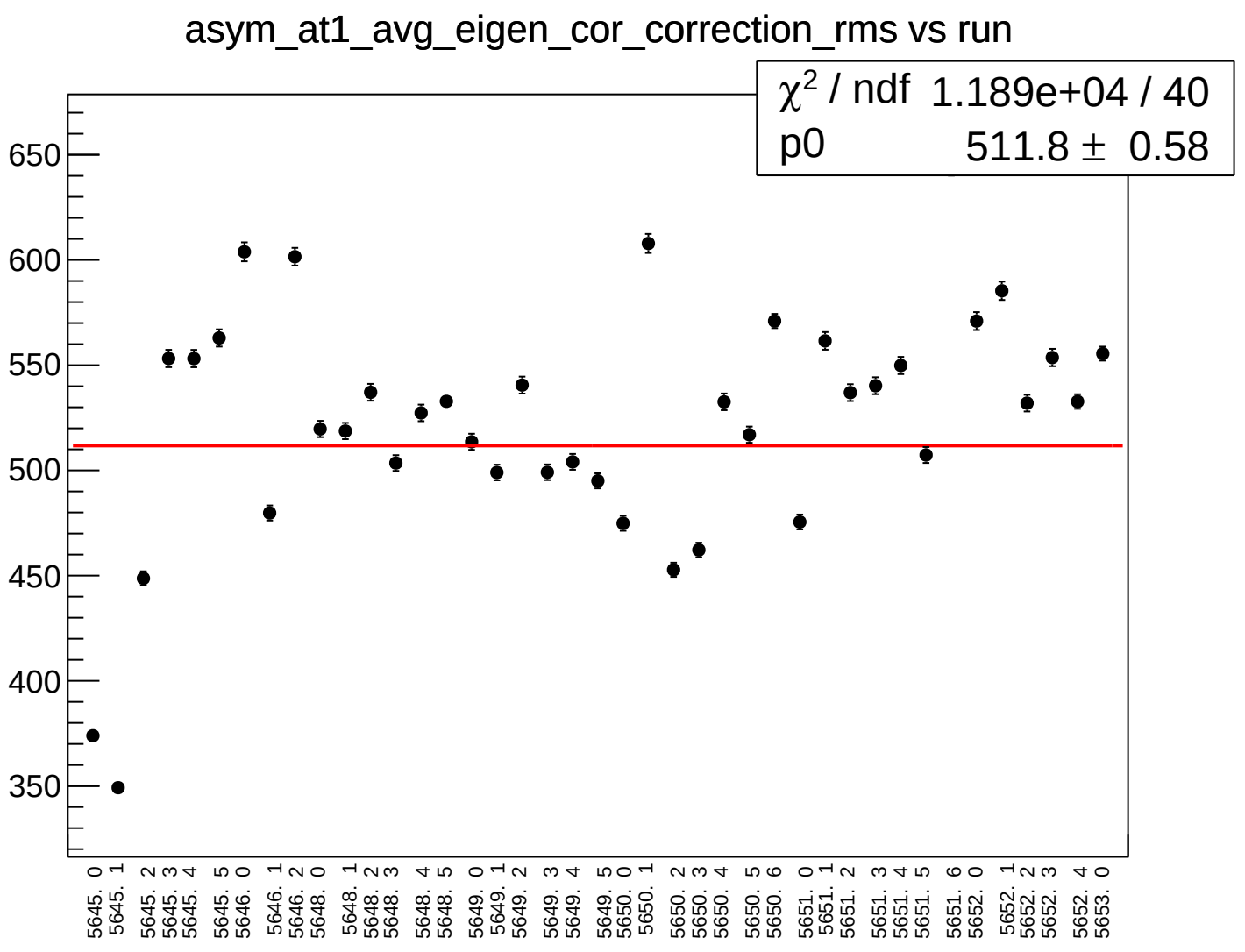

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 41.03 / 40
p0 −3014 ± 3461
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 178.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

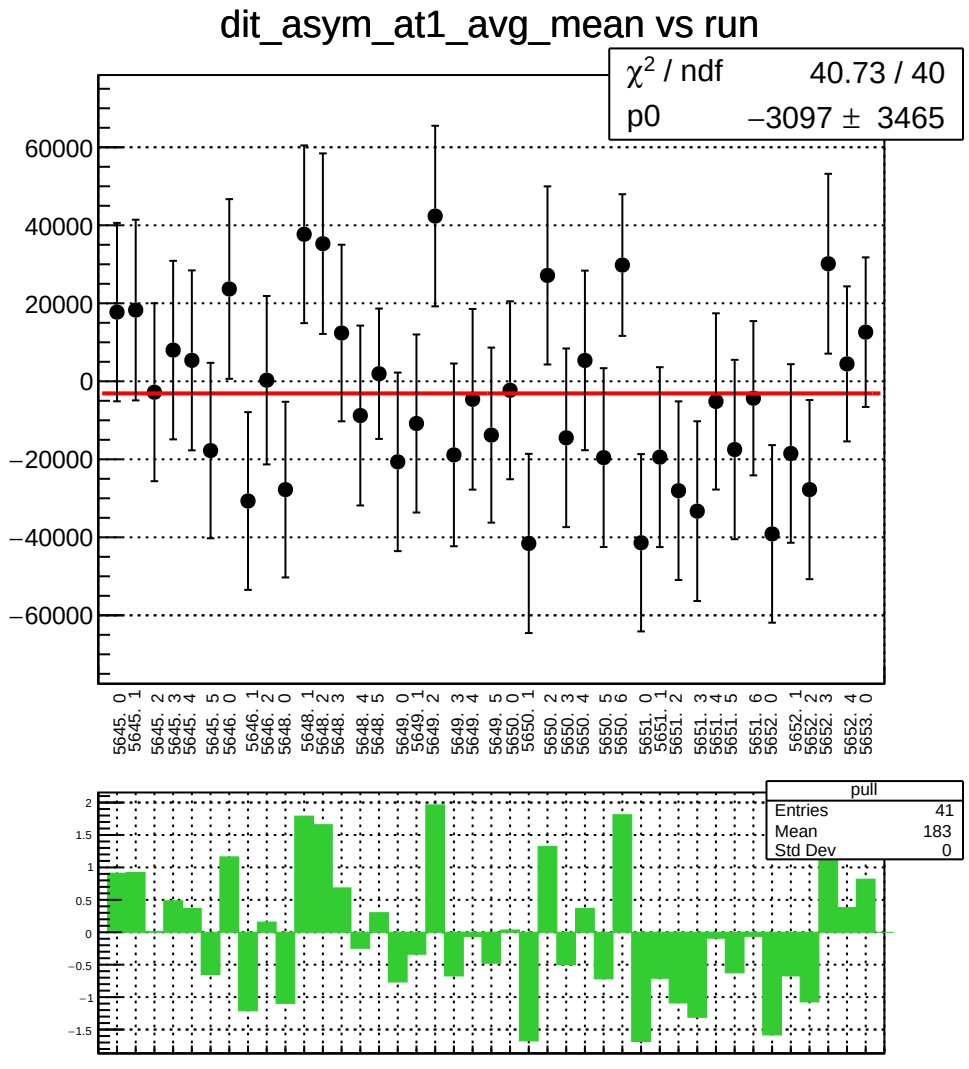

pull1D
Entries 41
Mean −0.01785
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

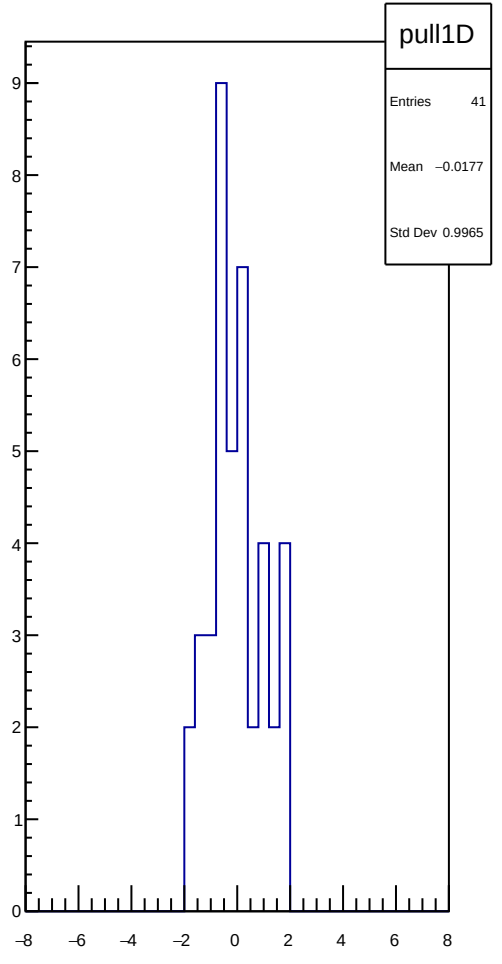

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 95.99 / 40
p0 2176 ± 2.448
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

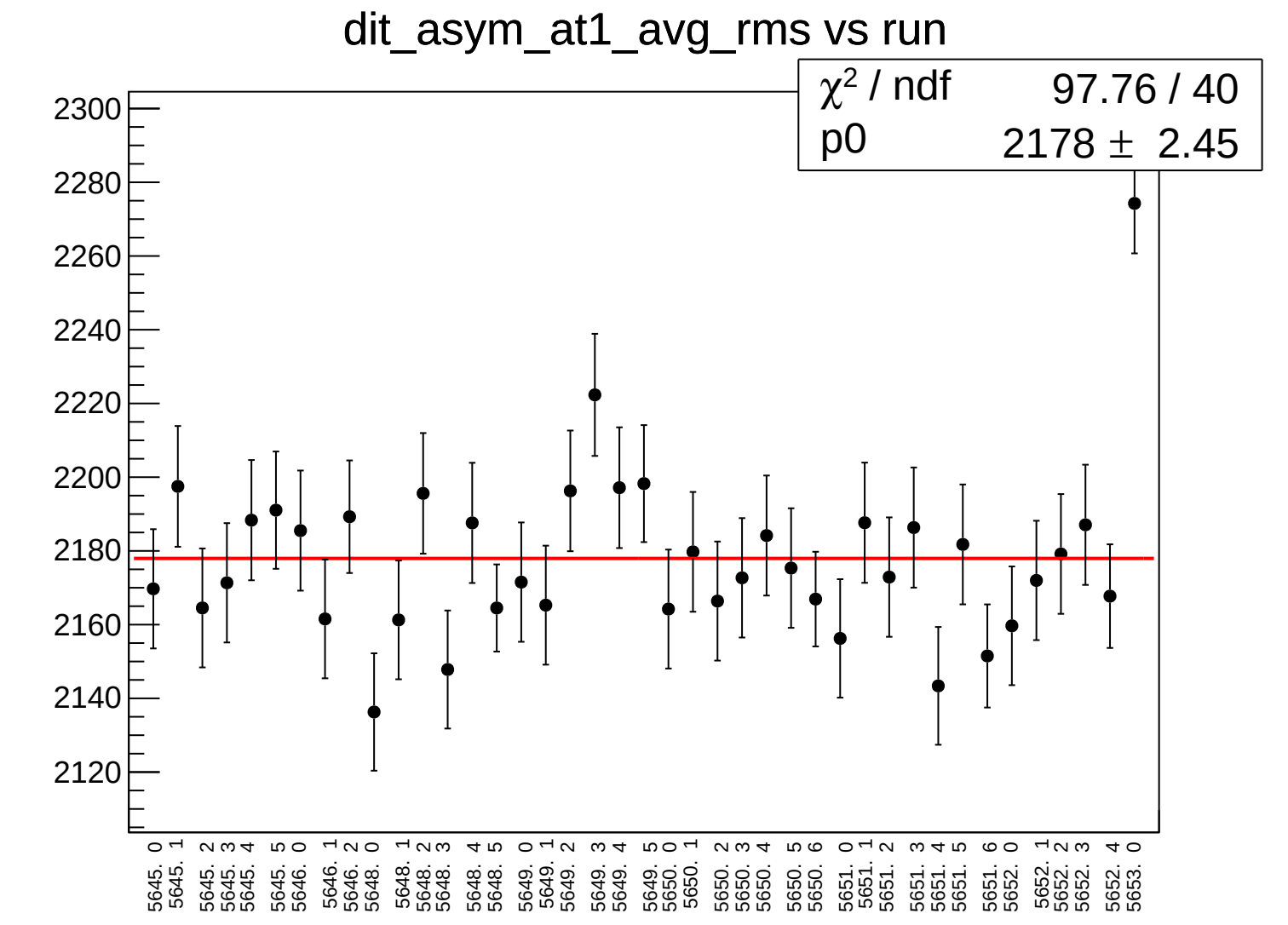

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 41.7 / 40
p0 −549.3 ± 820.3
pull
Entries 41
Mean −99.63
Std Dev 0

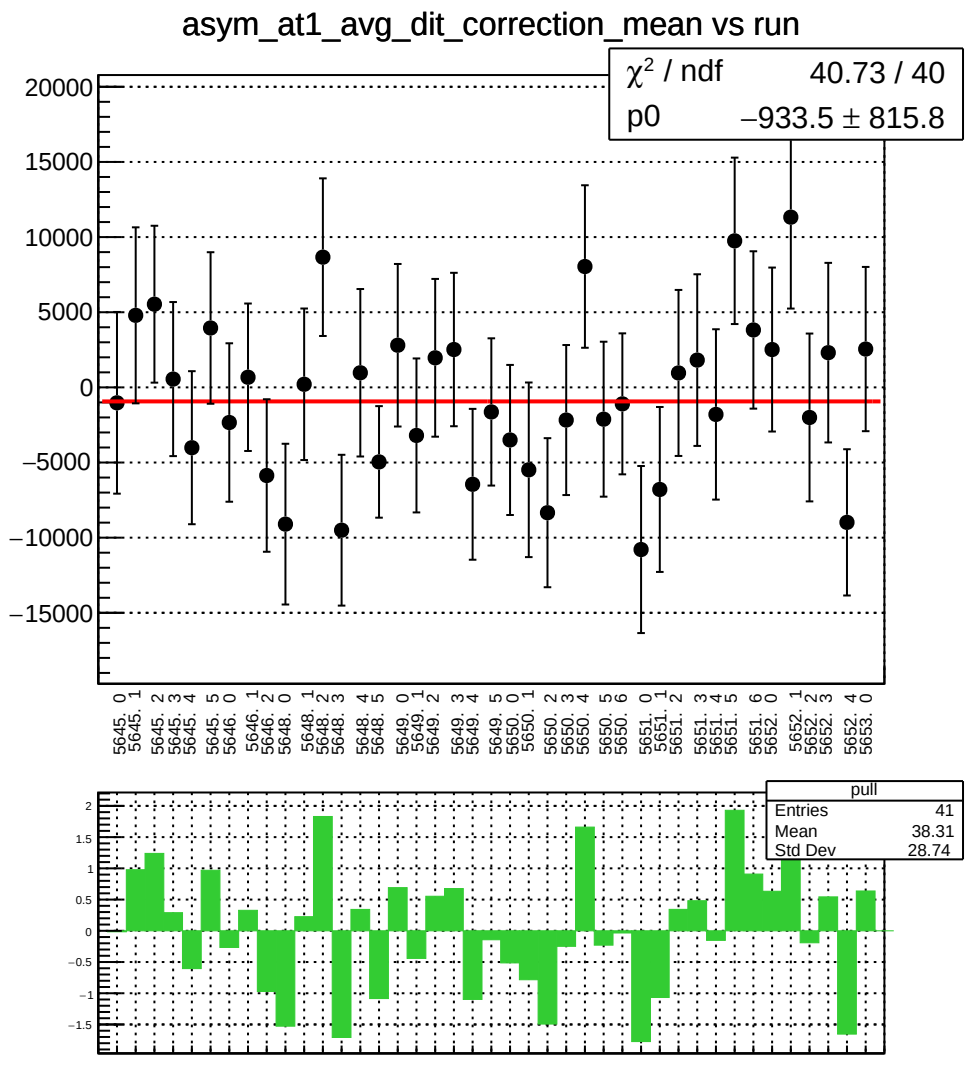

pull1D
Entries 41
Mean −0.002342
Std Dev 1.008

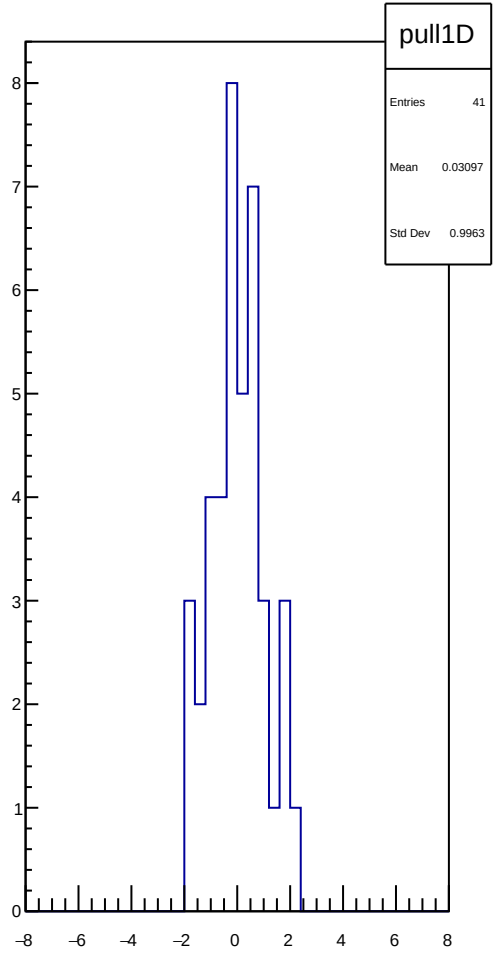

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 40
p0 511.8 ± 0.58
650
600
550
500
450
400
350
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

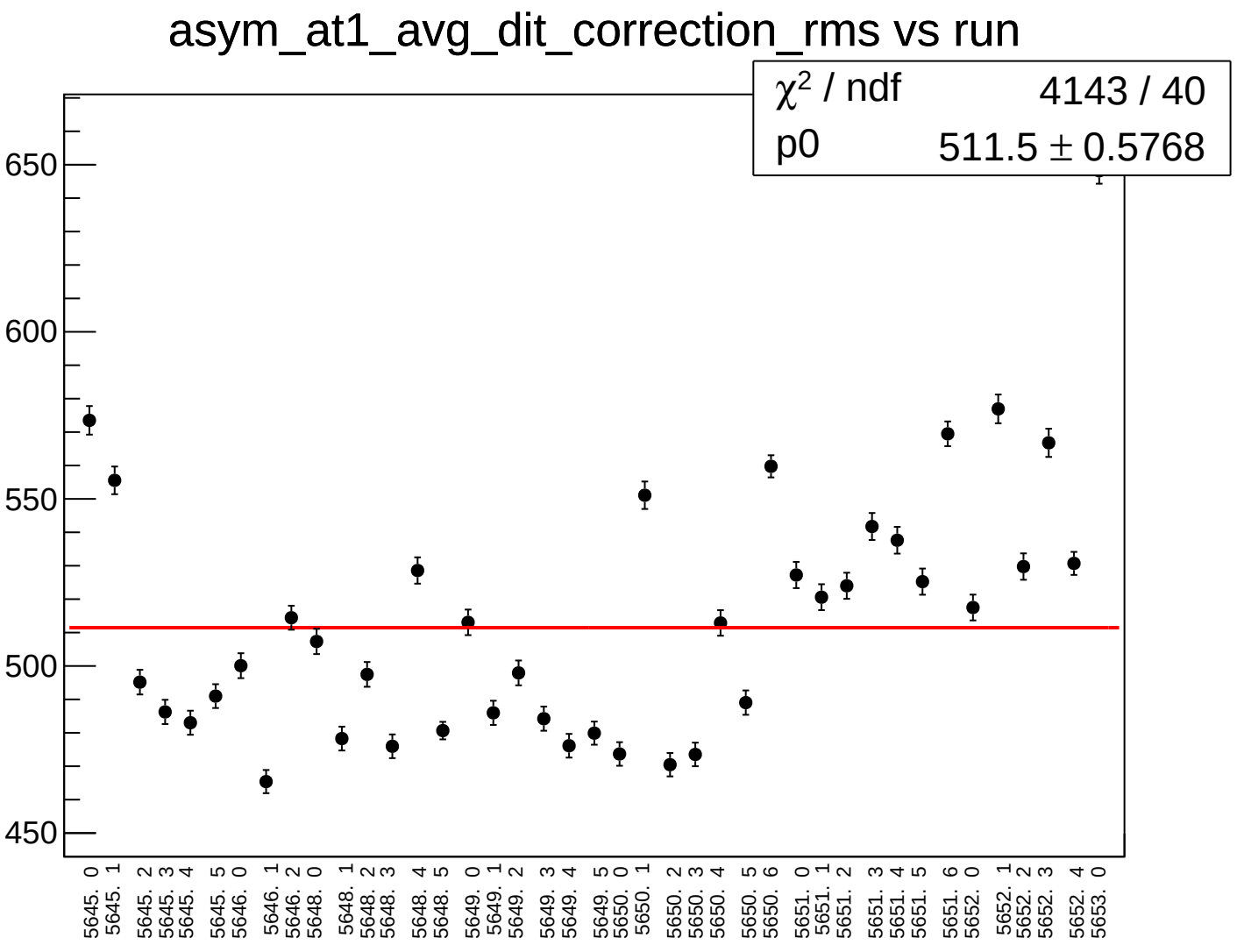

dit_asym_at1_avg_mean vs run
χ² / ndf 40.73 / 40
p0 −3097 ± 3465
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 183
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

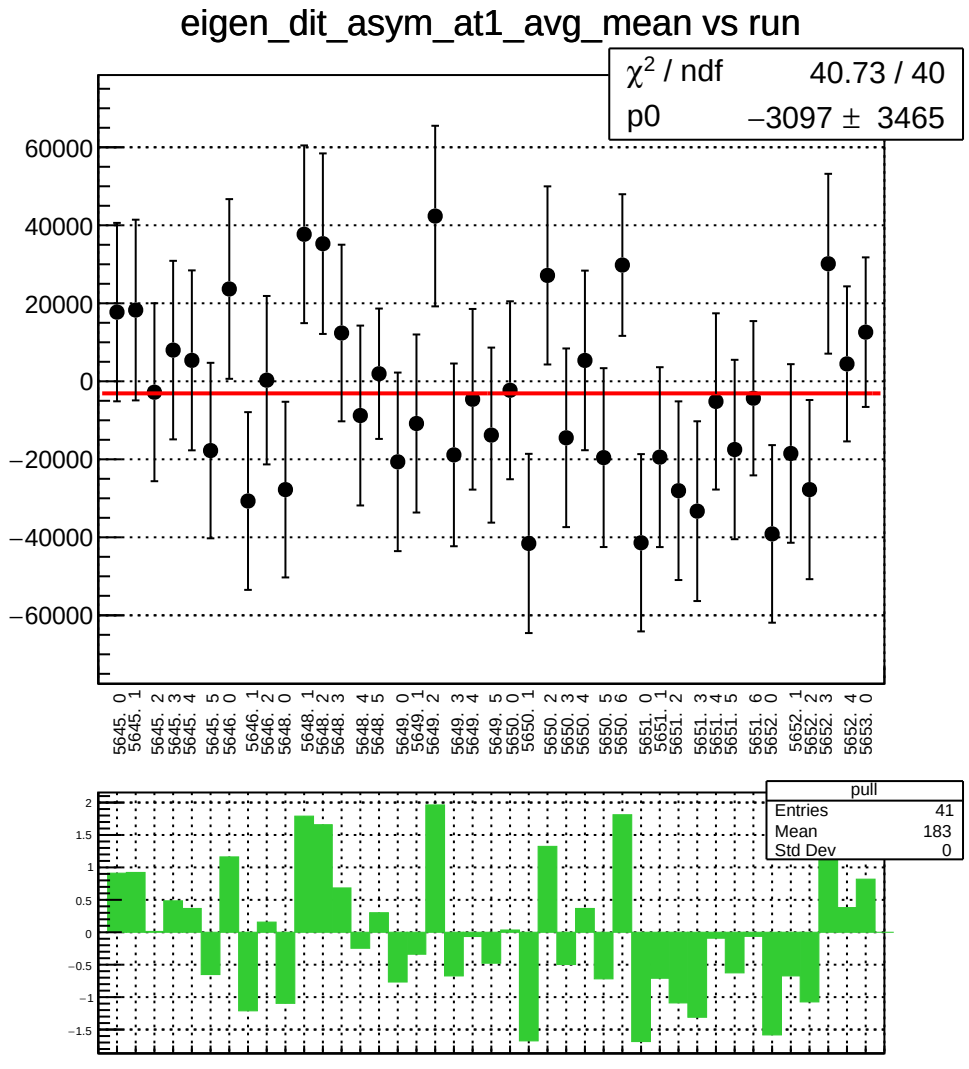

pull1D
Entries 41
Mean −0.0177
Std Dev 0.9965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

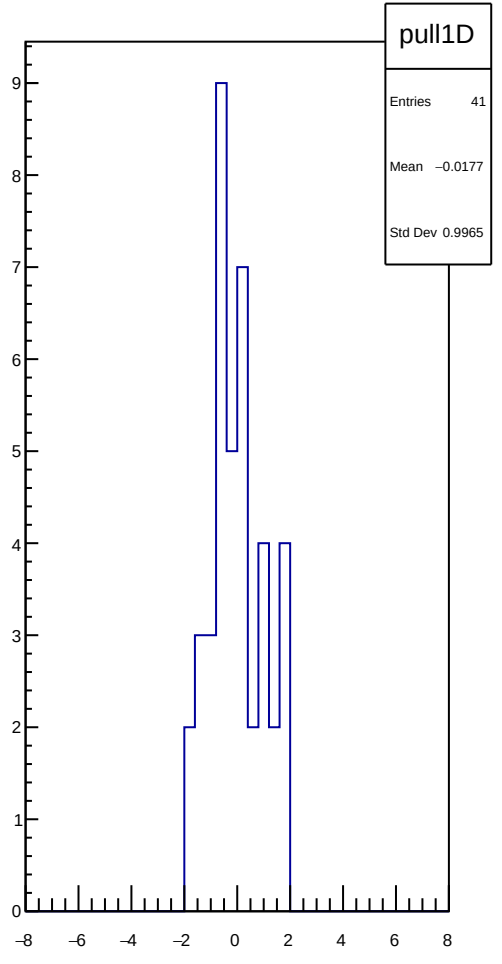

dit_asym_at1_avg_rms vs run
χ² / ndf 97.76 / 40
p0 2178 ± 2.45
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

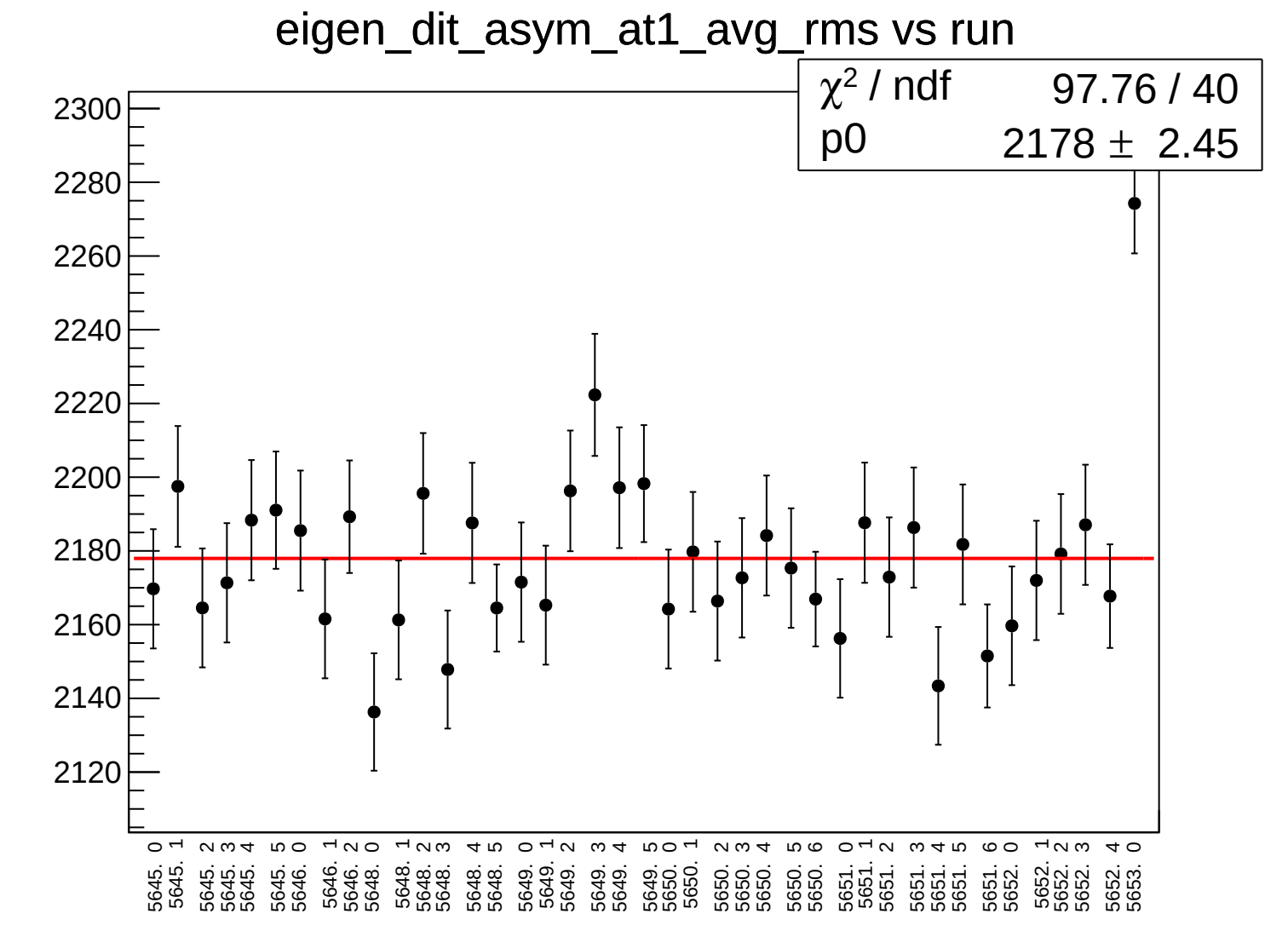

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 40.73 / 40
p0 −933.5 ± 815.8
pull
Entries 41
Mean 38.31
Std Dev 28.74

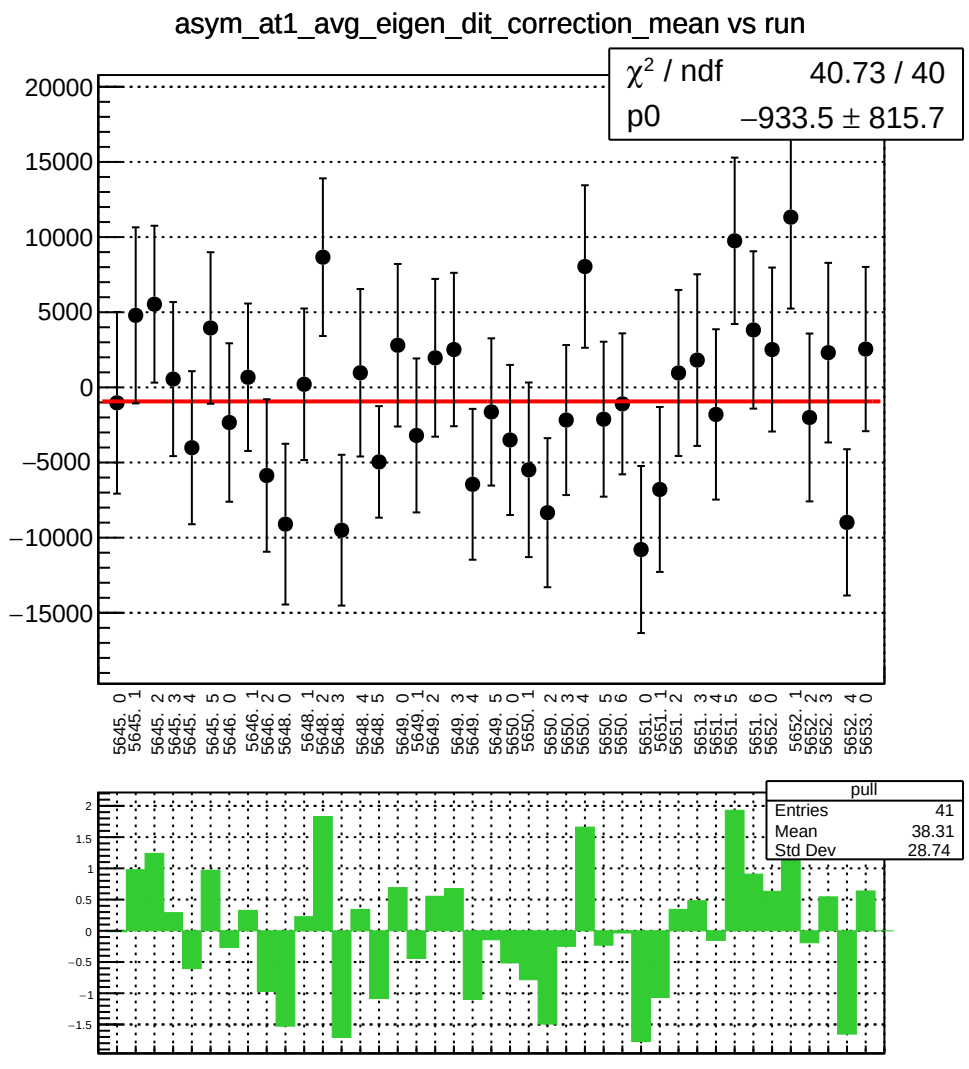

pull1D
Entries 41
Mean 0.03097
Std Dev 0.9963

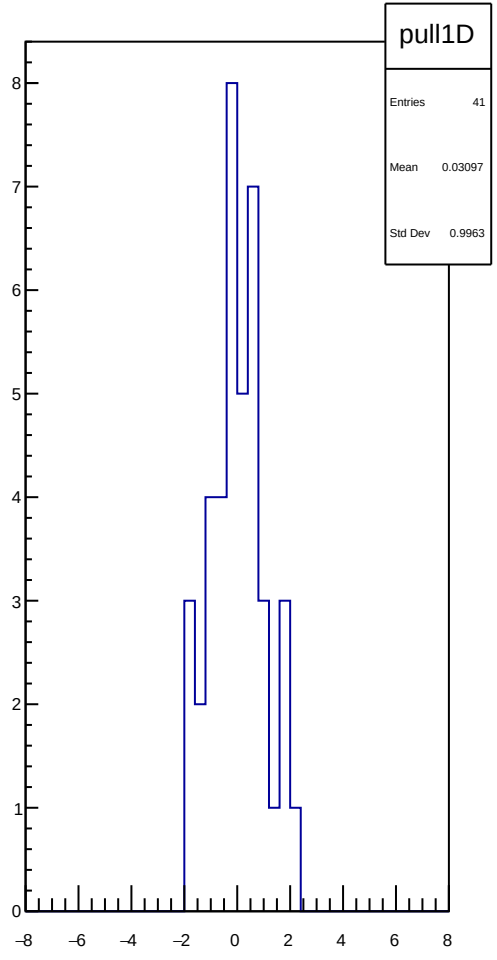

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 4143 / 40
p0 511.5 ± 0.5768
650
600
550
500
450
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

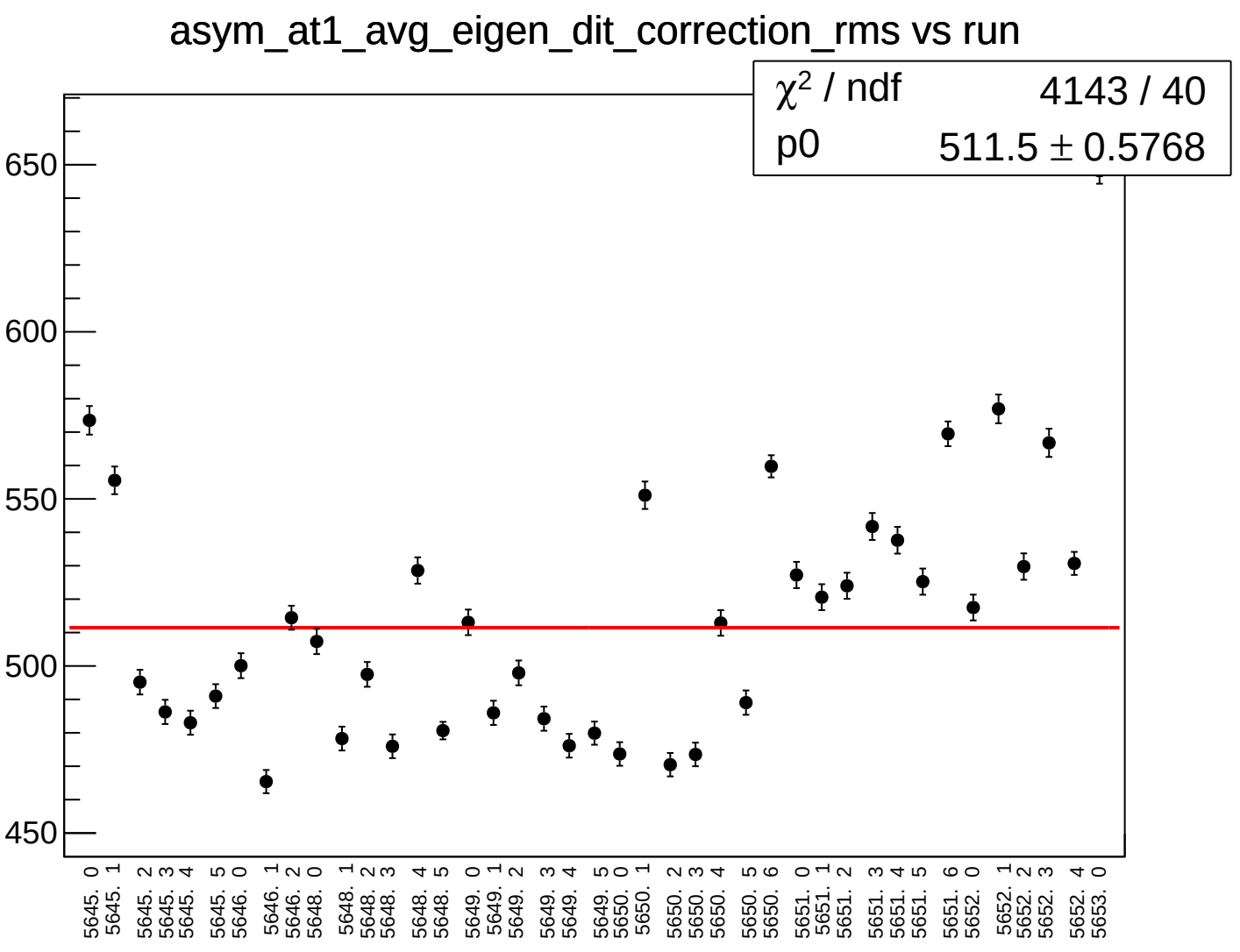

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 40.73 / 40
p0 −3097 ± 3465
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 183
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

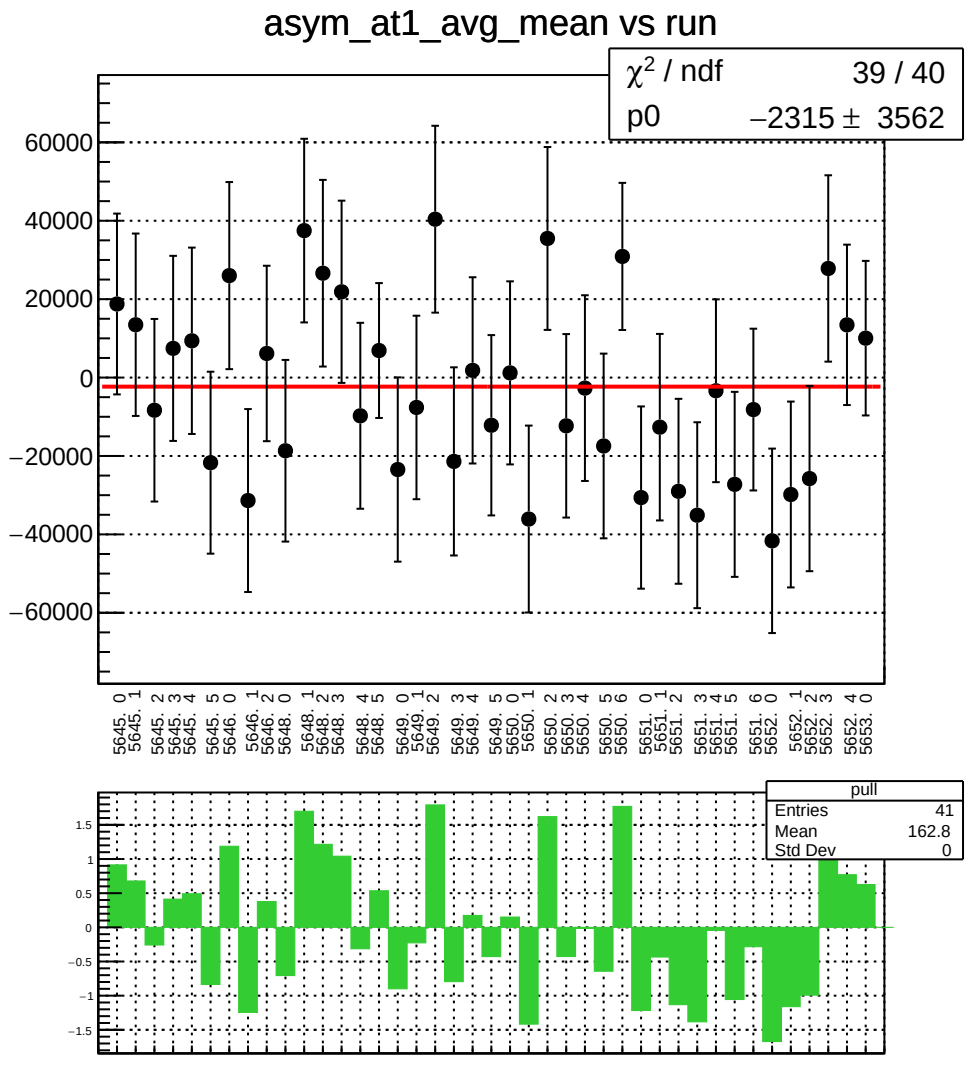

pull1D
Entries 41
Mean −0.0177
Std Dev 0.9965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

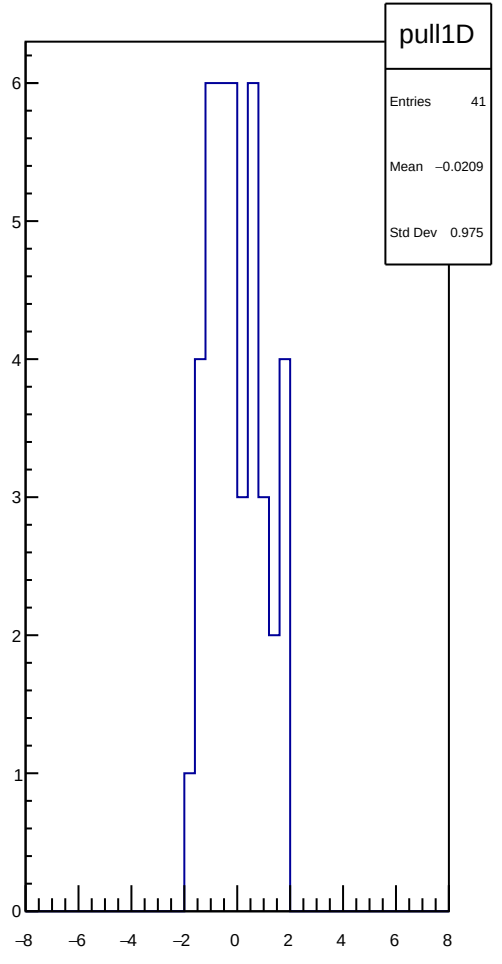

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 97.76 / 40
p0 2178 ± 2.45
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

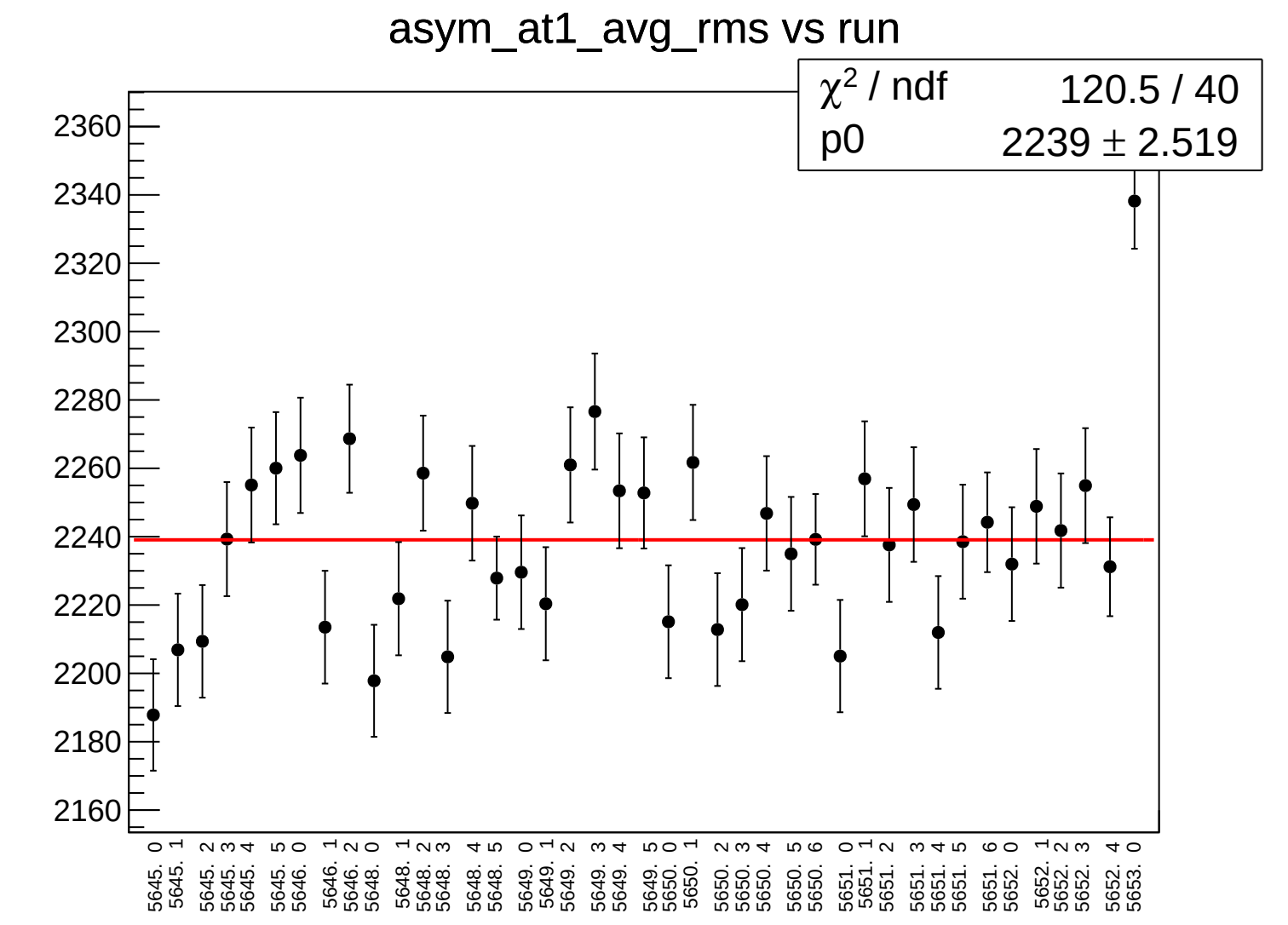

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.73 / 40
p0 −933.5 ± 815.7
20000
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 38.31
Std Dev 28.74
2
1.5
1
0.5
0
−0.5
−1
−1.5

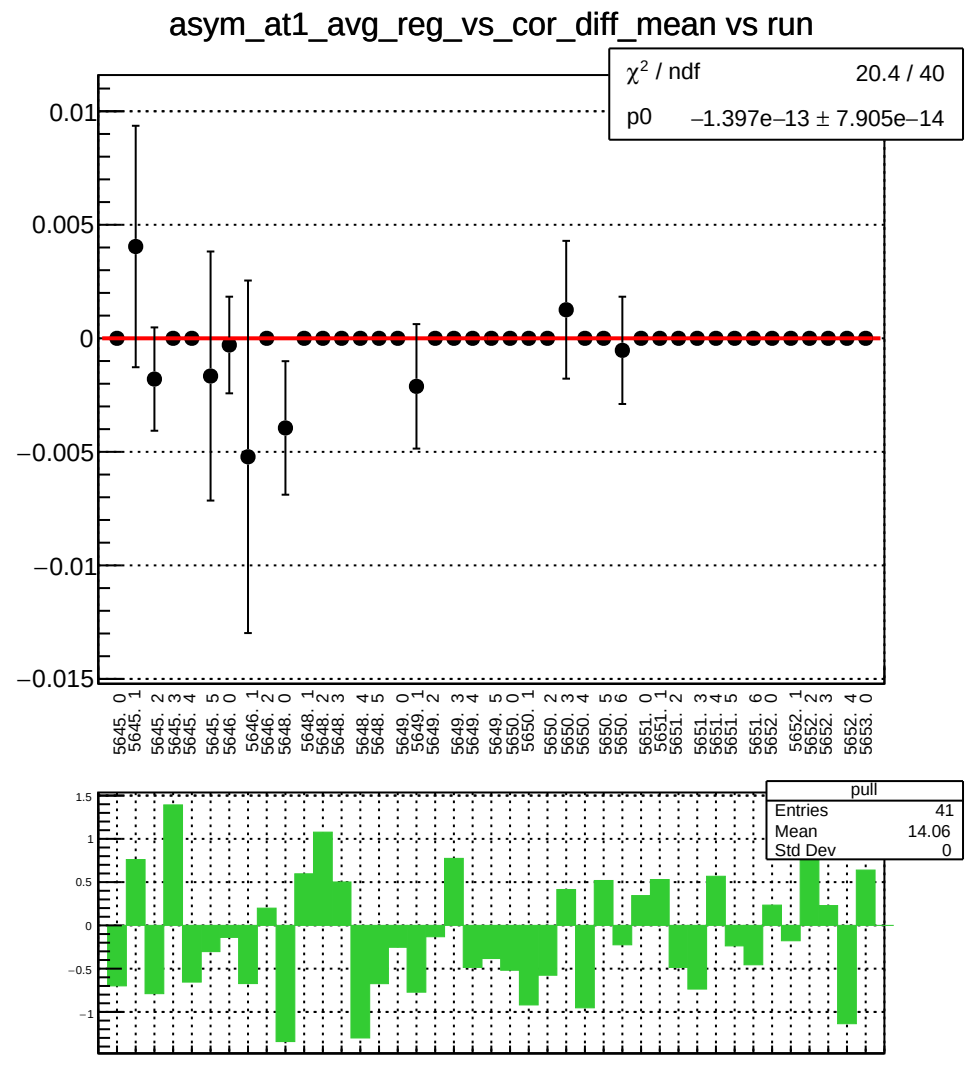

pull1D
Entries 41
Mean 0.03097
Std Dev 0.9963
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

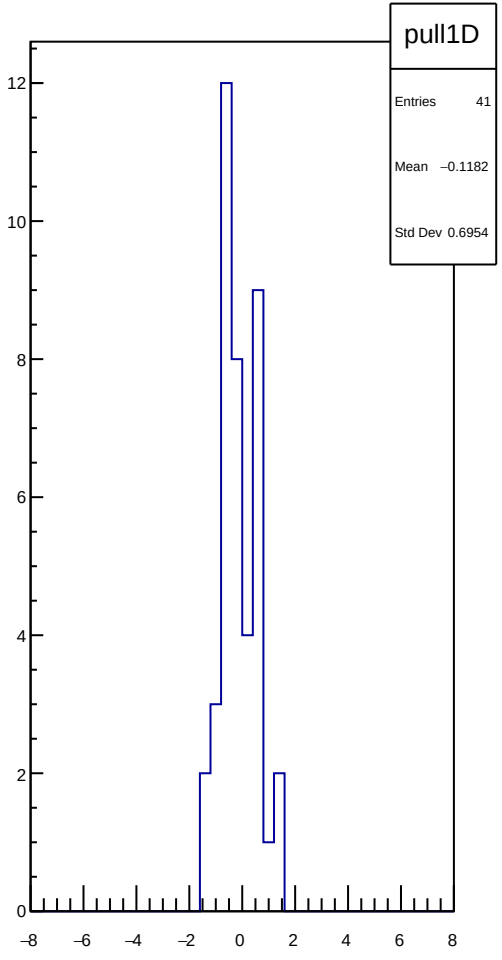

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4143 / 40
p0 511.5 ± 0.5768
650
600
550
500
450
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

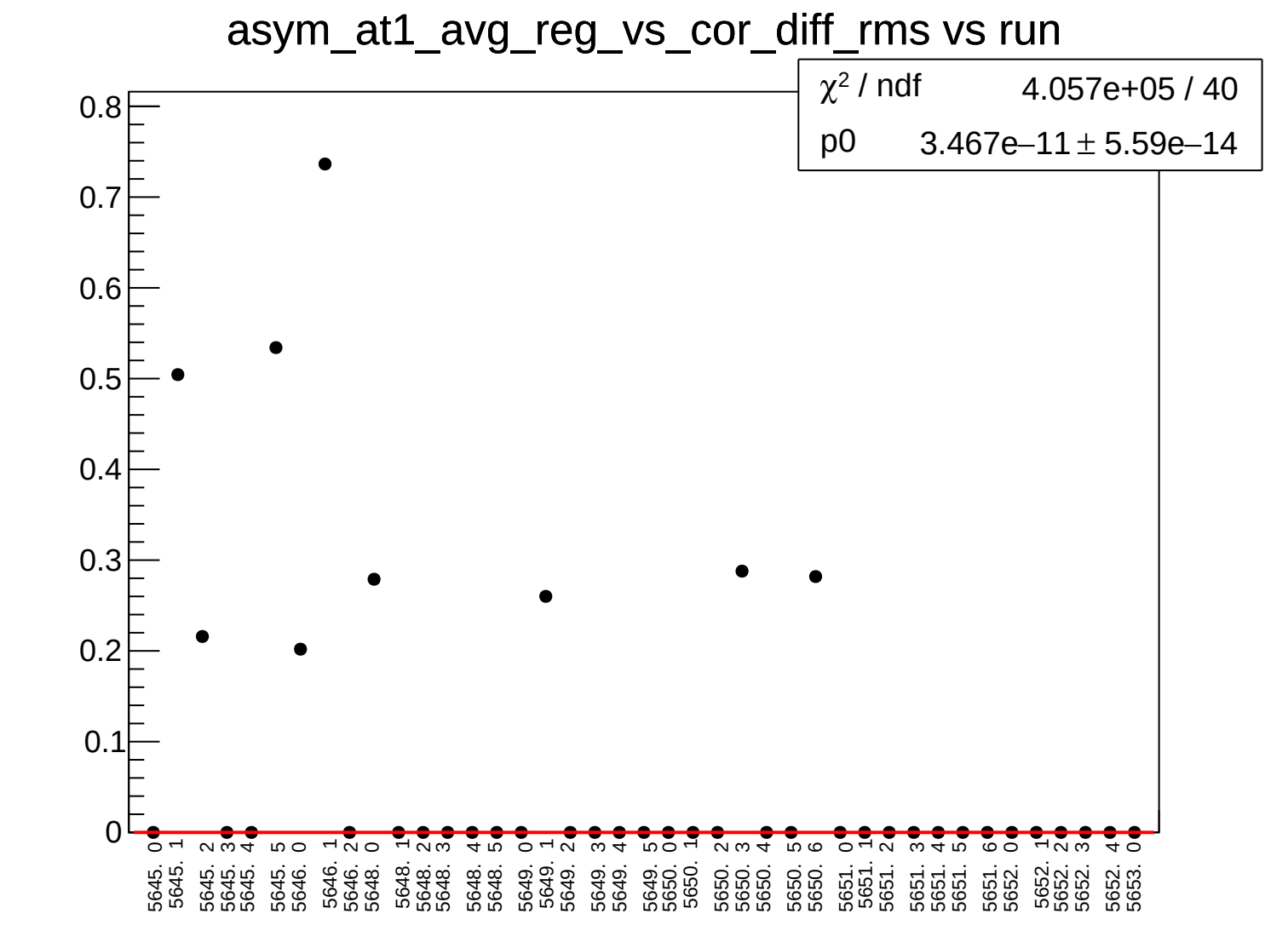

asym_at1_avg_mean vs run
χ² / ndf 39 / 40
p0 −2315 ± 3562
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 162.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

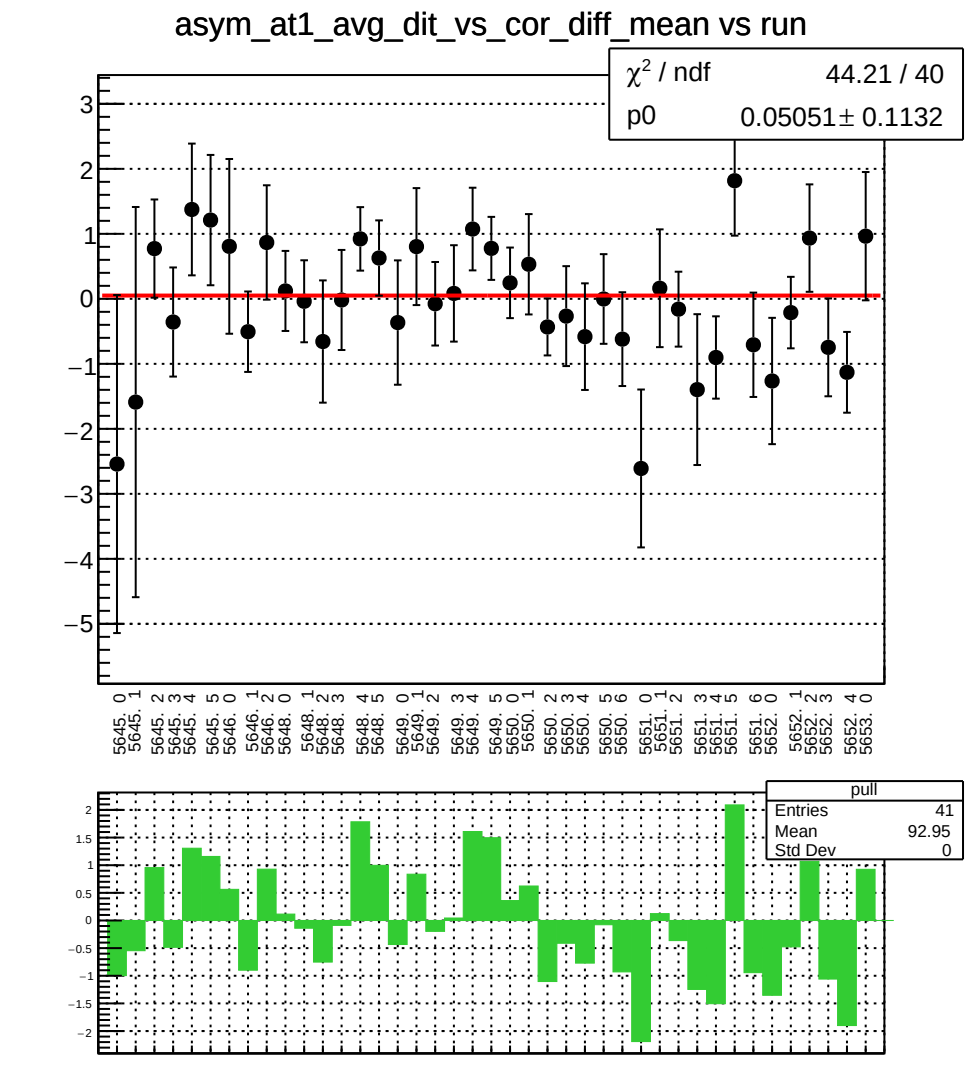

pull1D
Entries 41
Mean −0.0209
Std Dev 0.975
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

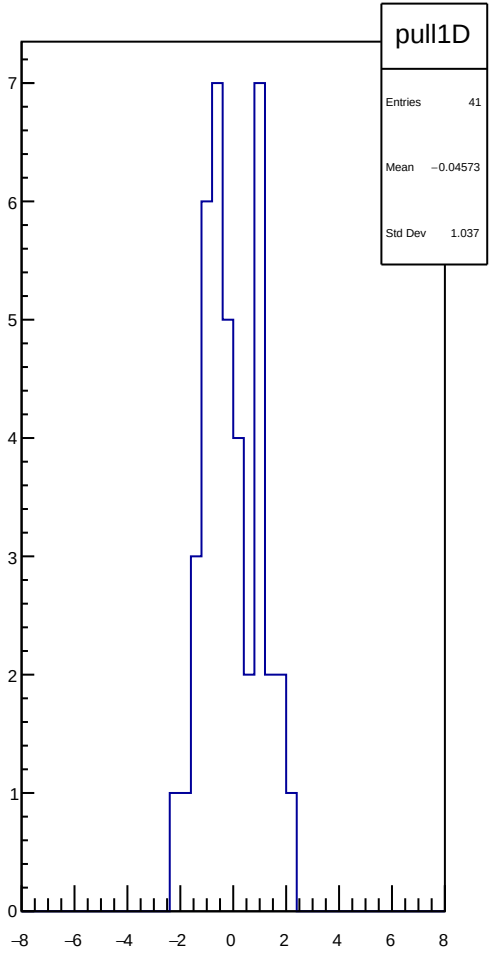

asym_at1_avg_rms vs run
χ² / ndf 120.5 / 40
p0 2239 ± 2.519
2360
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

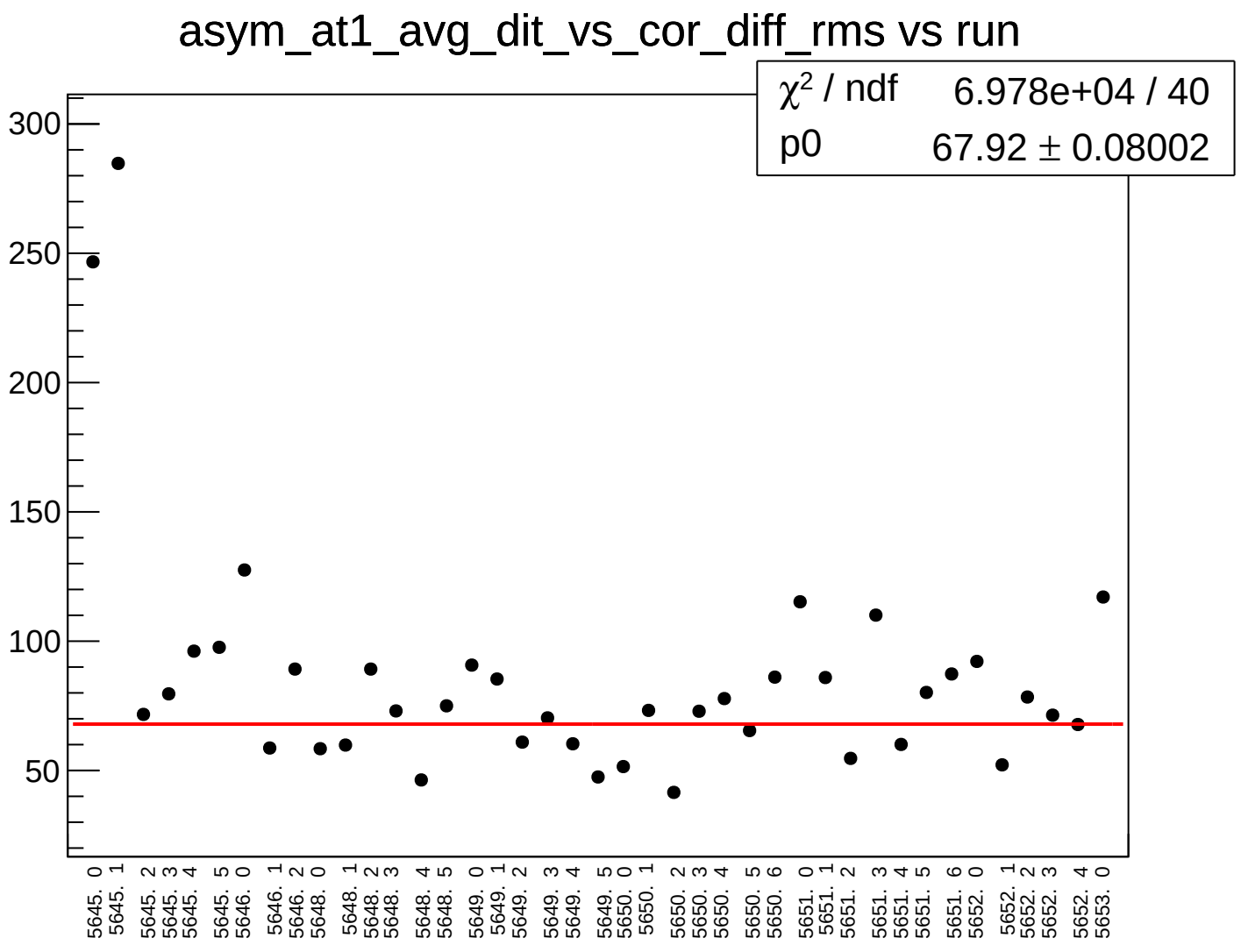

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.4 / 40
p0 −1.397e−13 ± 7.905e−14
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1

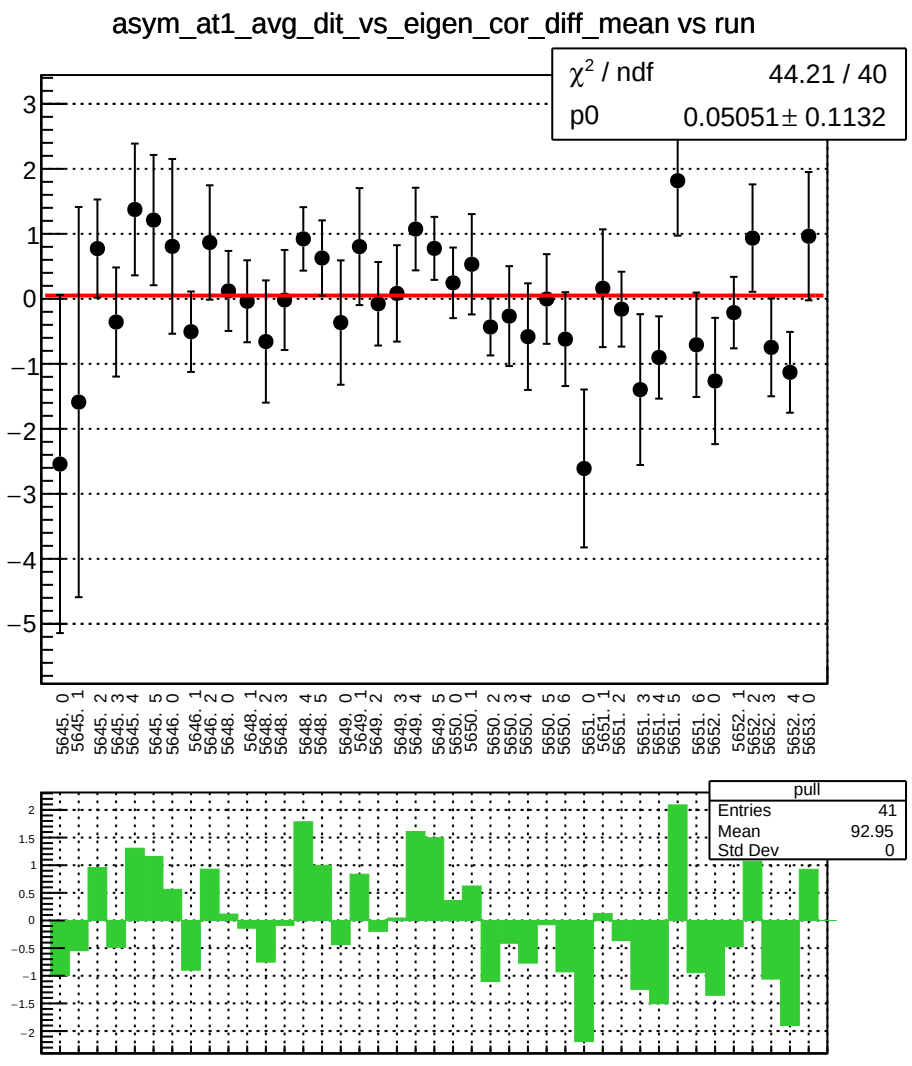

pull1D
Entries 41
Mean −0.1182
Std Dev 0.6954
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

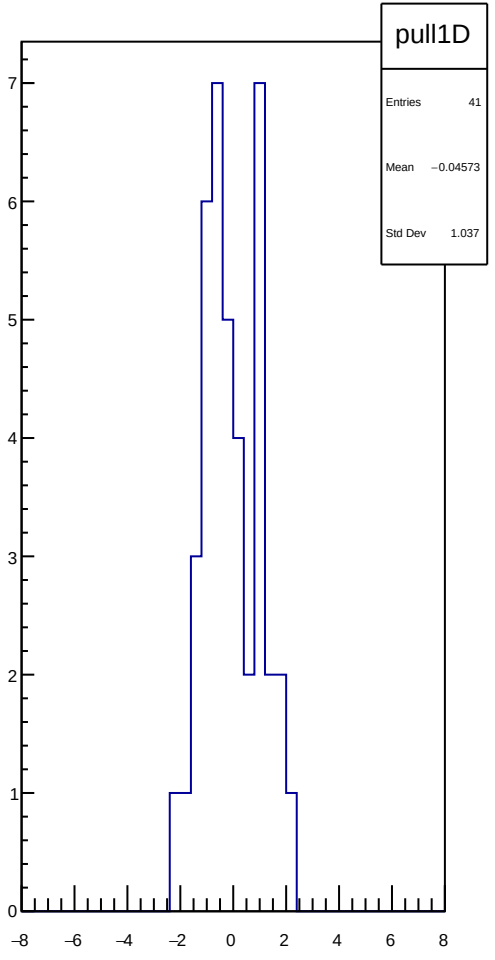

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.057e+05 / 40
p0 3.467e−11 ± 5.59e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

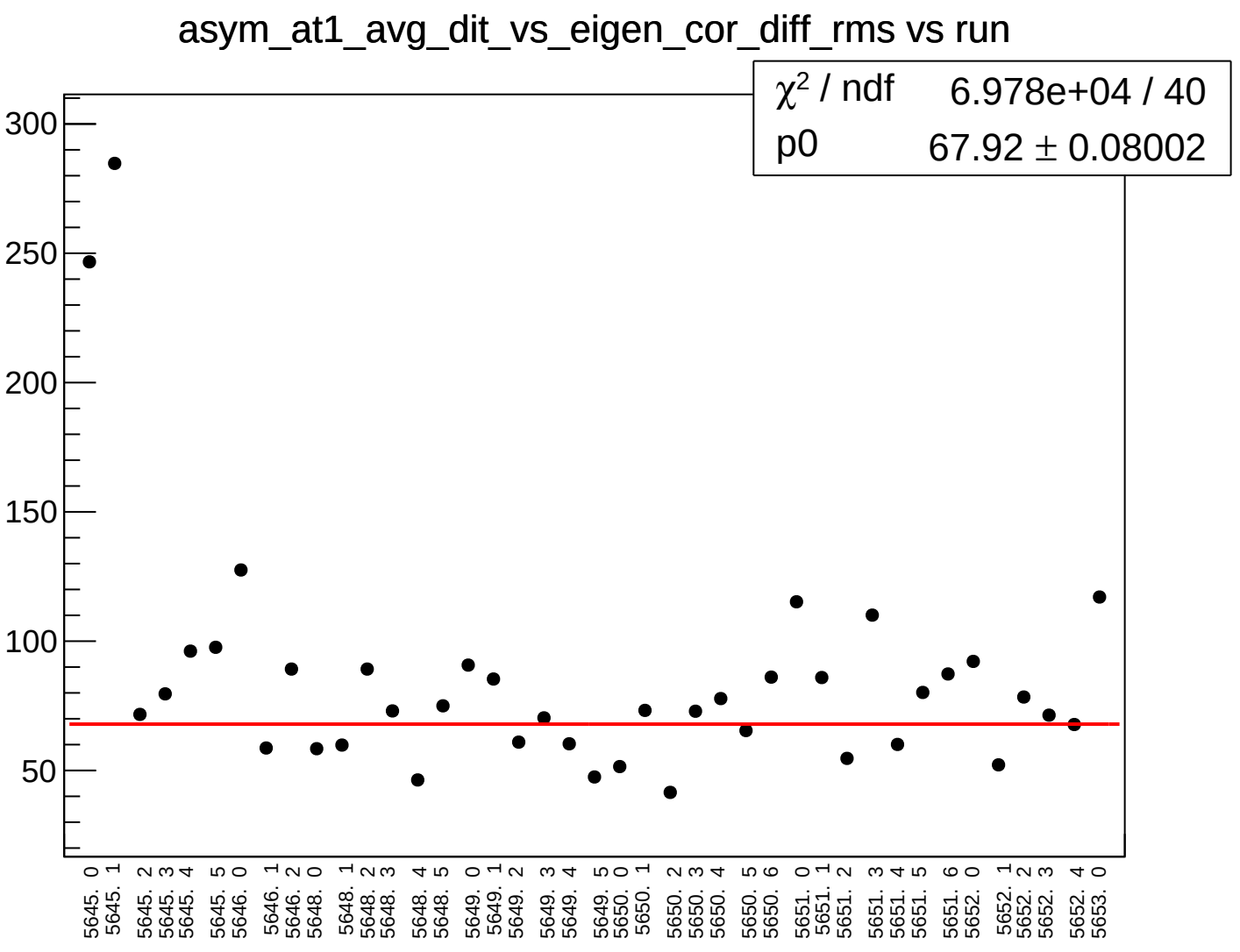

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 44.21 / 40
p0 0.05051 ± 0.1132
pull
Entries 41
Mean 92.95
Std Dev 0

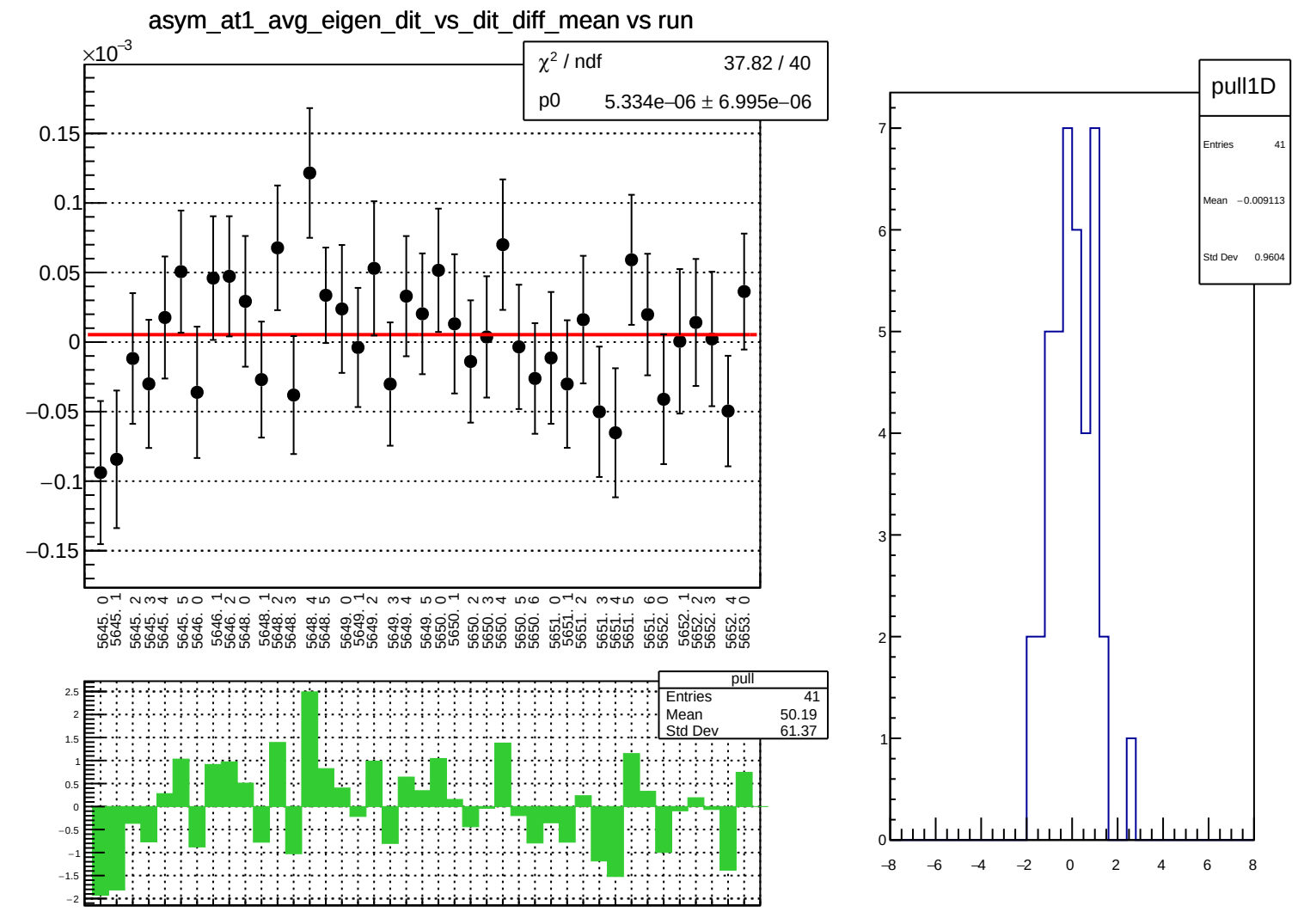

pull1D
Entries 41
Mean −0.04573
Std Dev 1.037

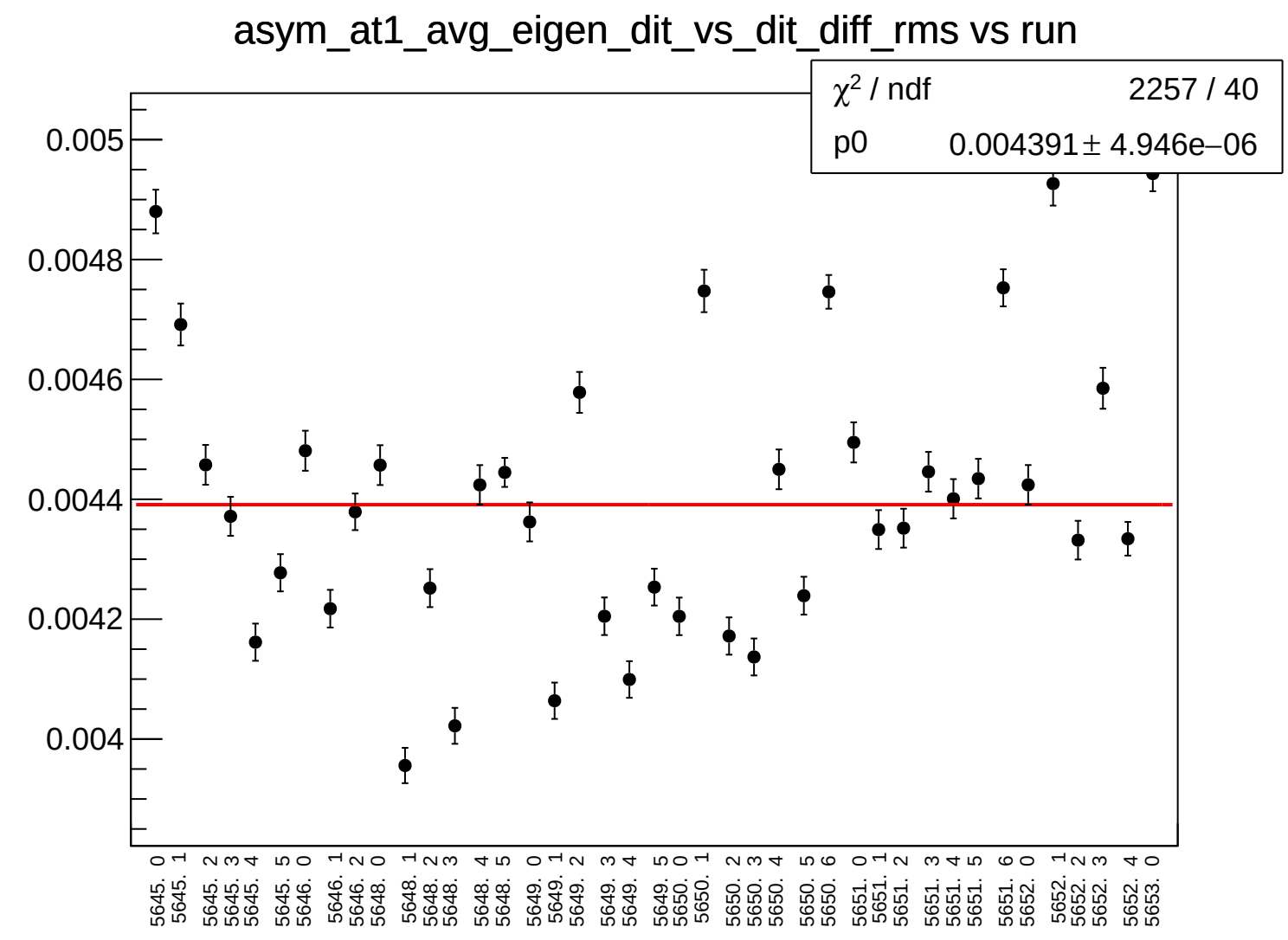

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.978e+04 / 40
p0 67.92 ± 0.08002
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

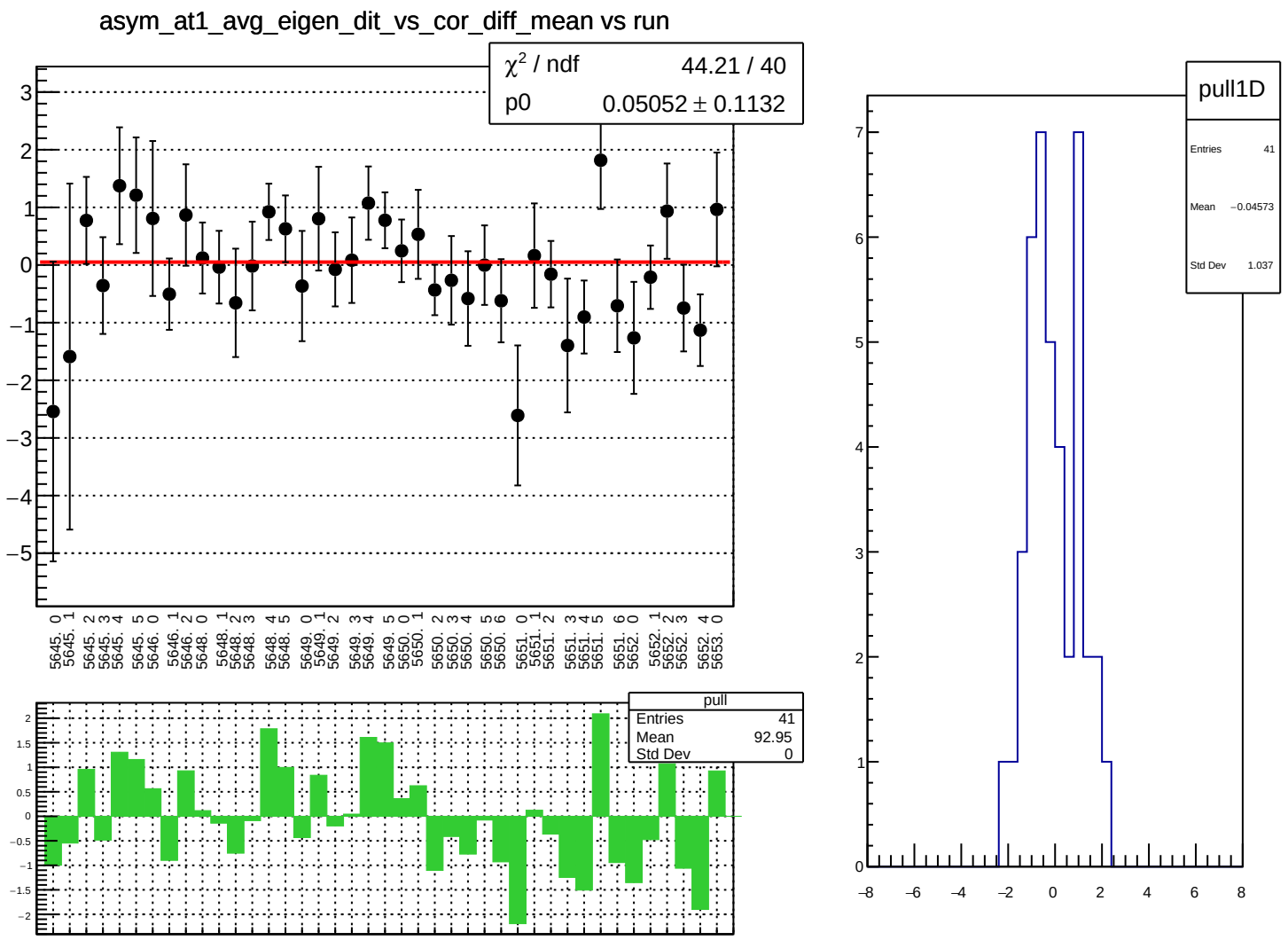

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.21 / 40
p0 0.05051 ± 0.1132
pull
Entries 41
Mean 92.95
Std Dev 0

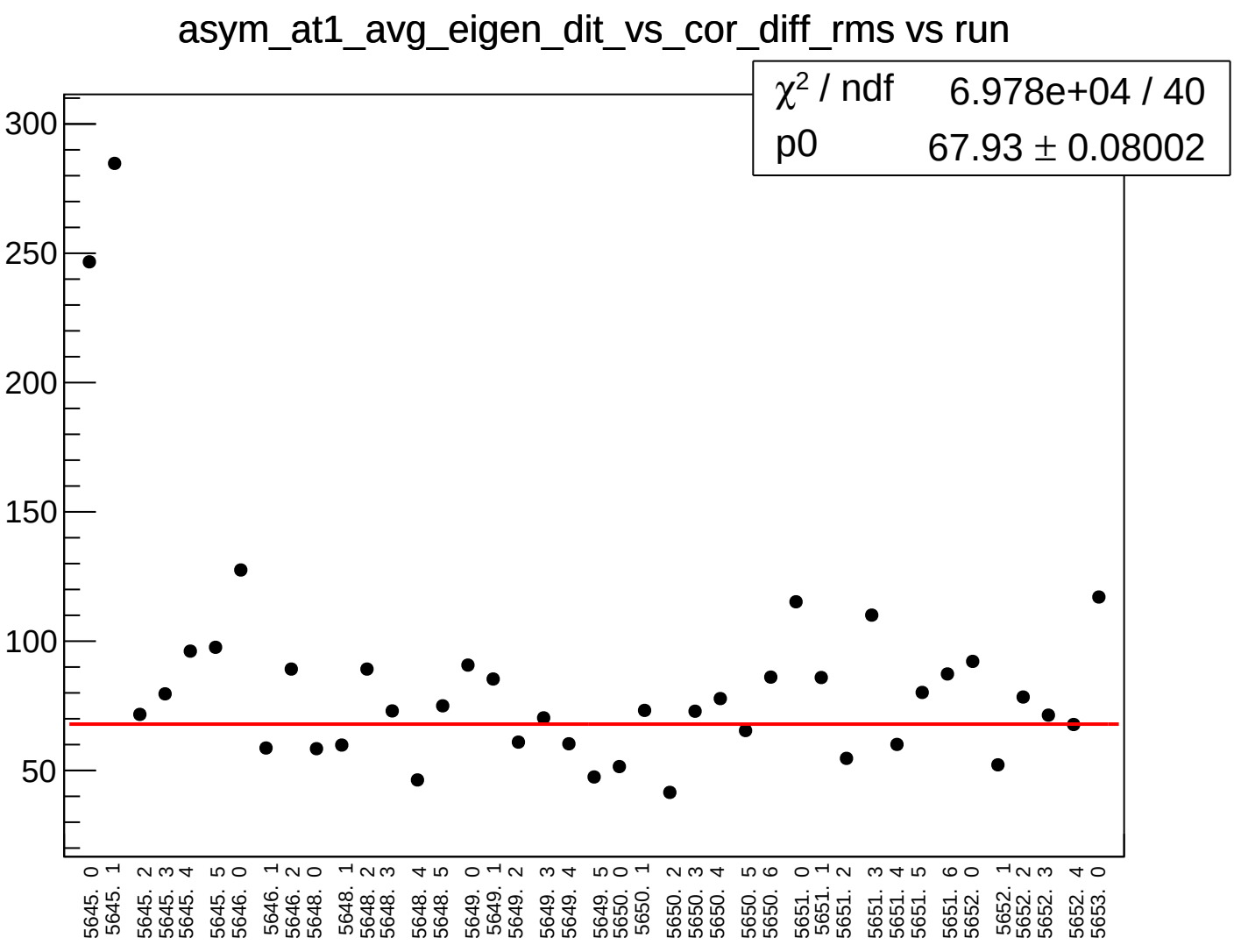

pull1D
Entries 41
Mean −0.04573
Std Dev 1.037

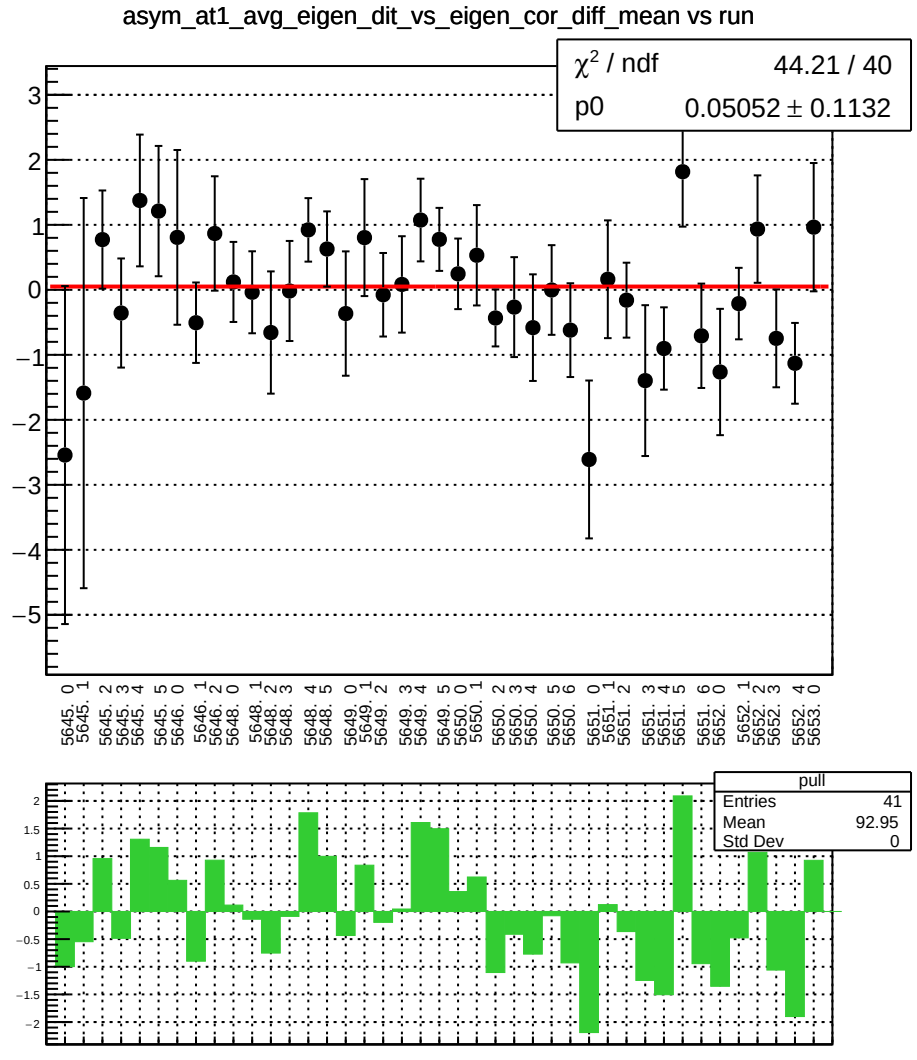

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.978e+04 / 40
p0 67.92 ± 0.08002
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

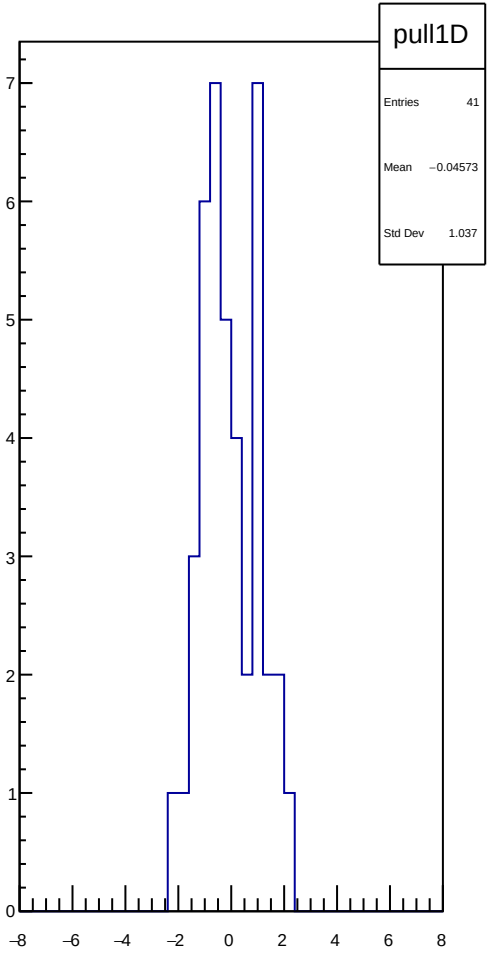

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.82 / 40
p0 5.334e−06 ± 6.995e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 3
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 50.19
Std Dev 61.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.009113
Std Dev 0.9604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

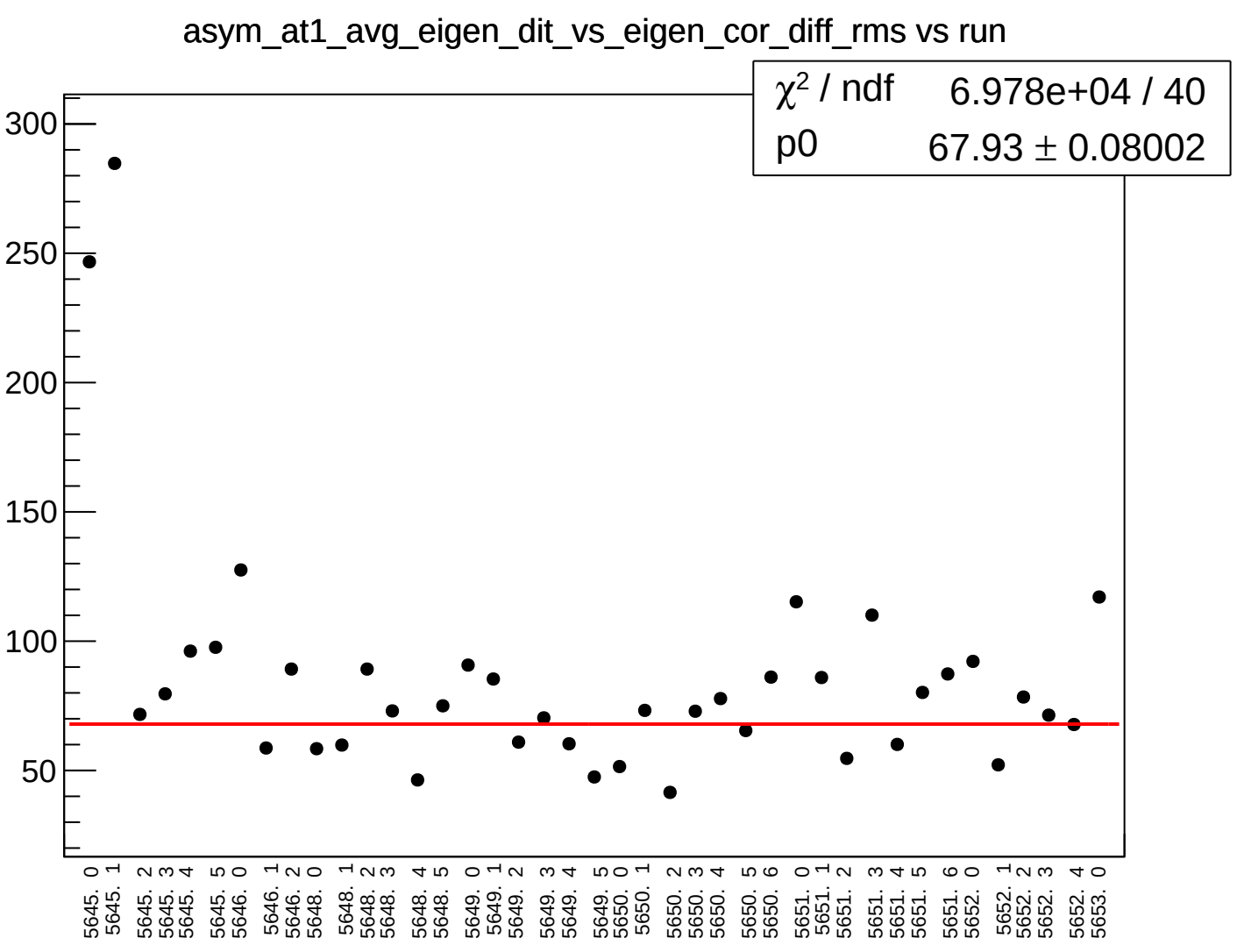

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2257 / 40
p0 0.004391 ± 4.946e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

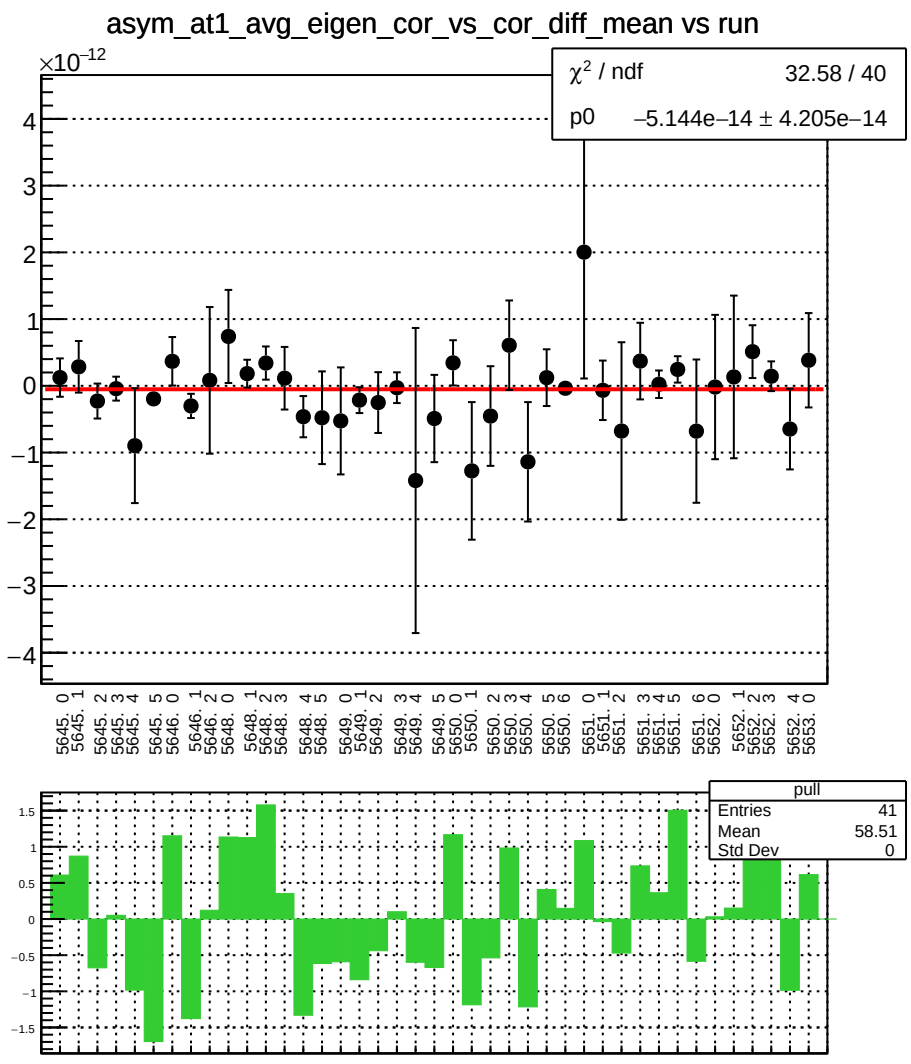

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.21 / 40
p0 0.05052 ± 0.1132
pull
Entries 41
Mean 92.95
Std Dev 0
pull1D
Entries 41
Mean −0.04573
Std Dev 1.037

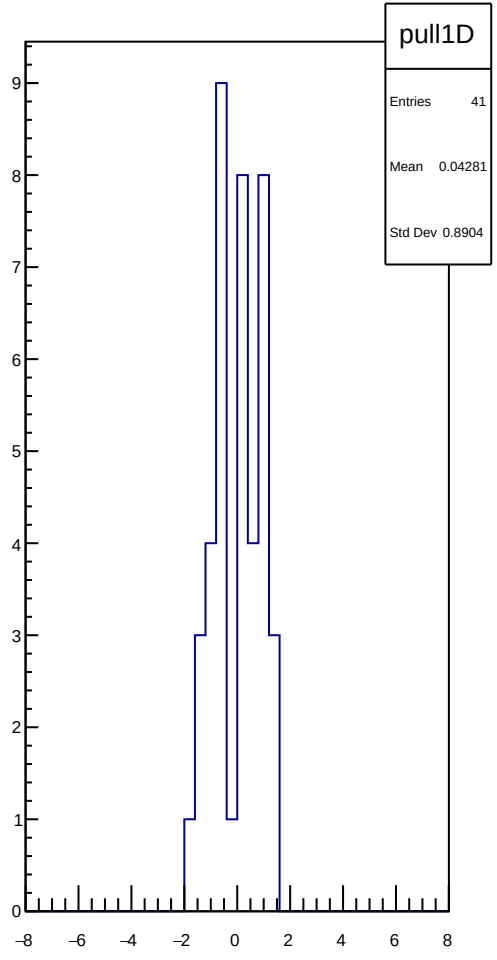

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.978e+04 / 40
p0 67.93 ± 0.08002
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

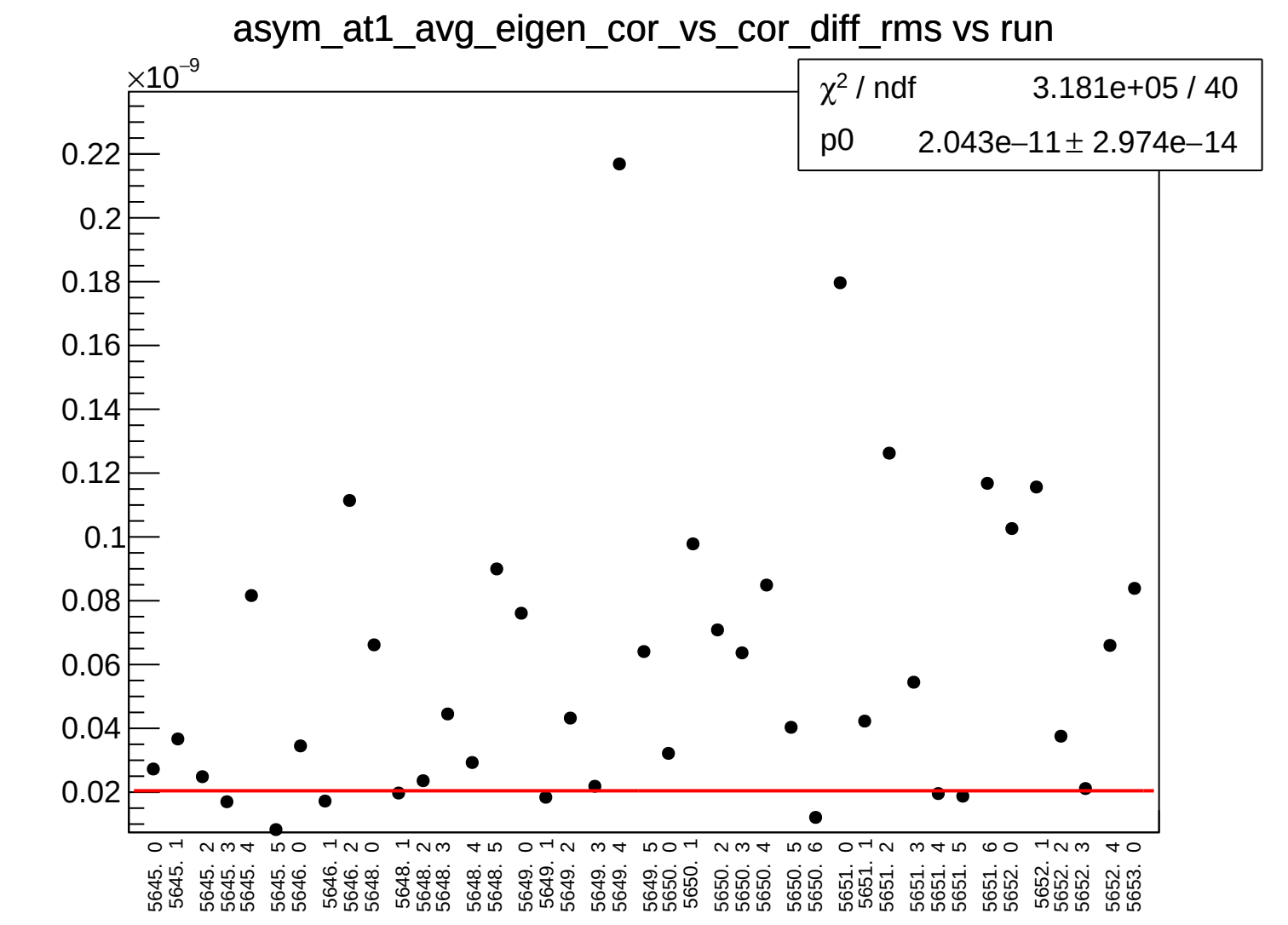

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.21 / 40
p0 0.05052 ± 0.1132
pull
Entries 41
Mean 92.95
Std Dev 0

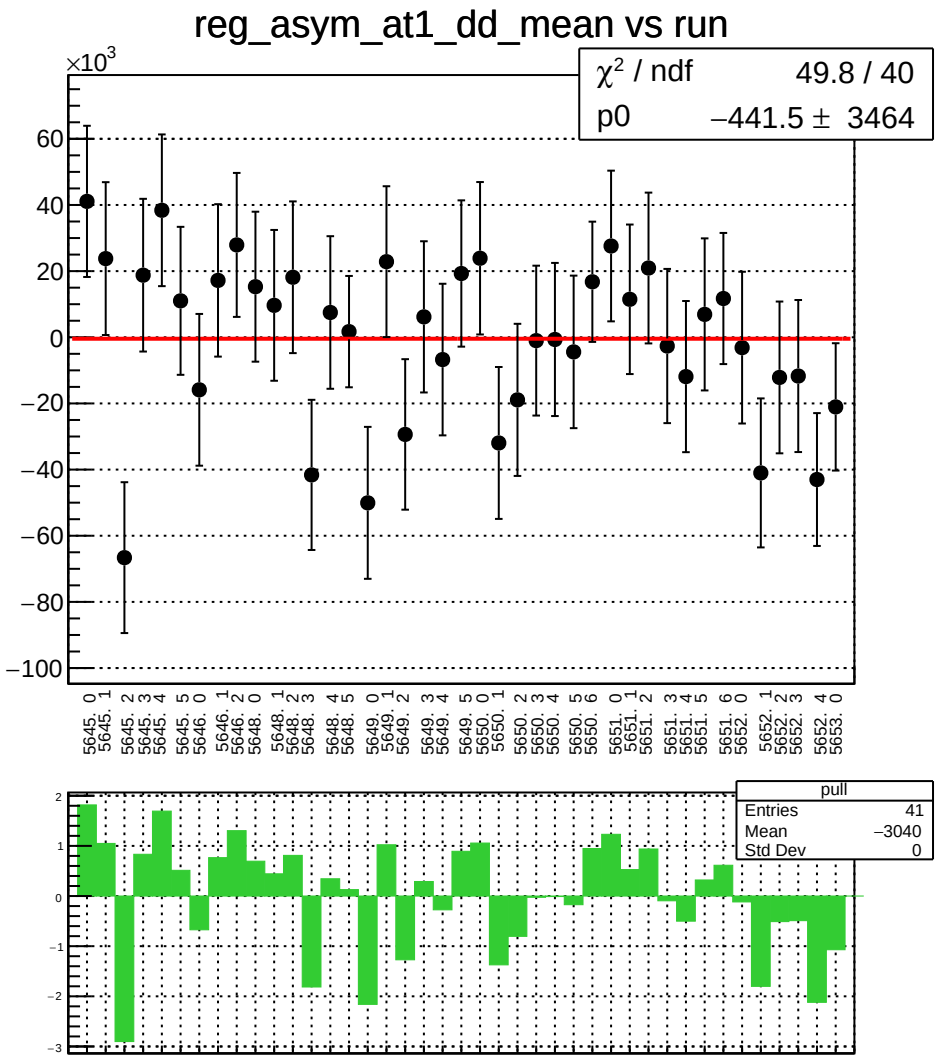

pull1D
Entries 41
Mean −0.04573
Std Dev 1.037

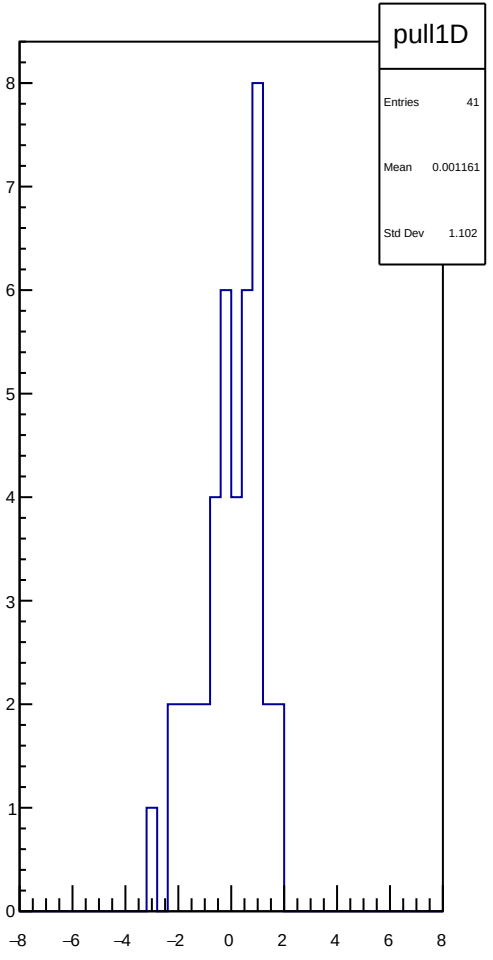

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.978e+04 / 40
p0 67.93 ± 0.08002
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

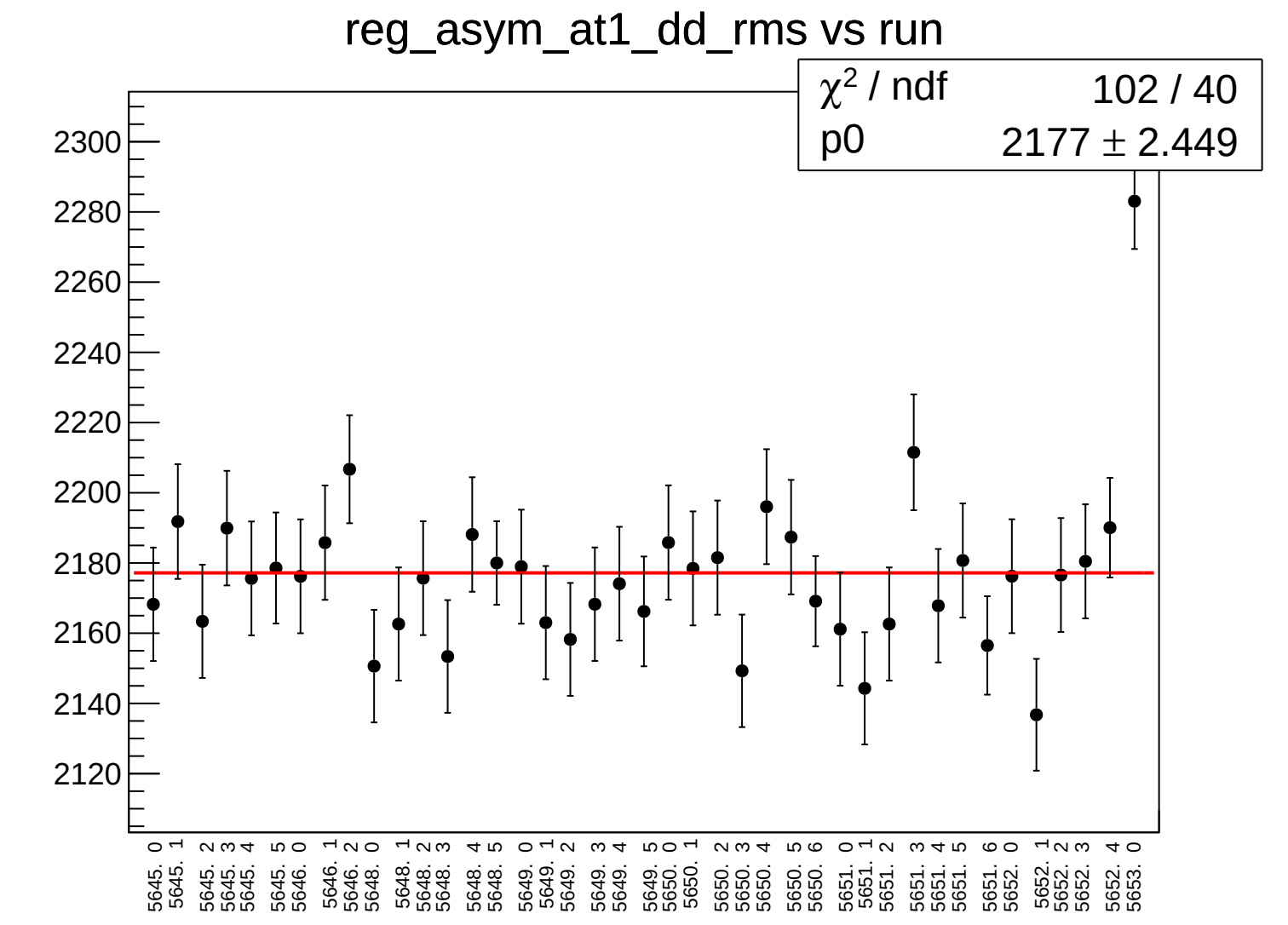

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.58 / 40
p0 −5.144e−14 ± 4.205e−14
pull
Entries 41
Mean 58.51
Std Dev 0

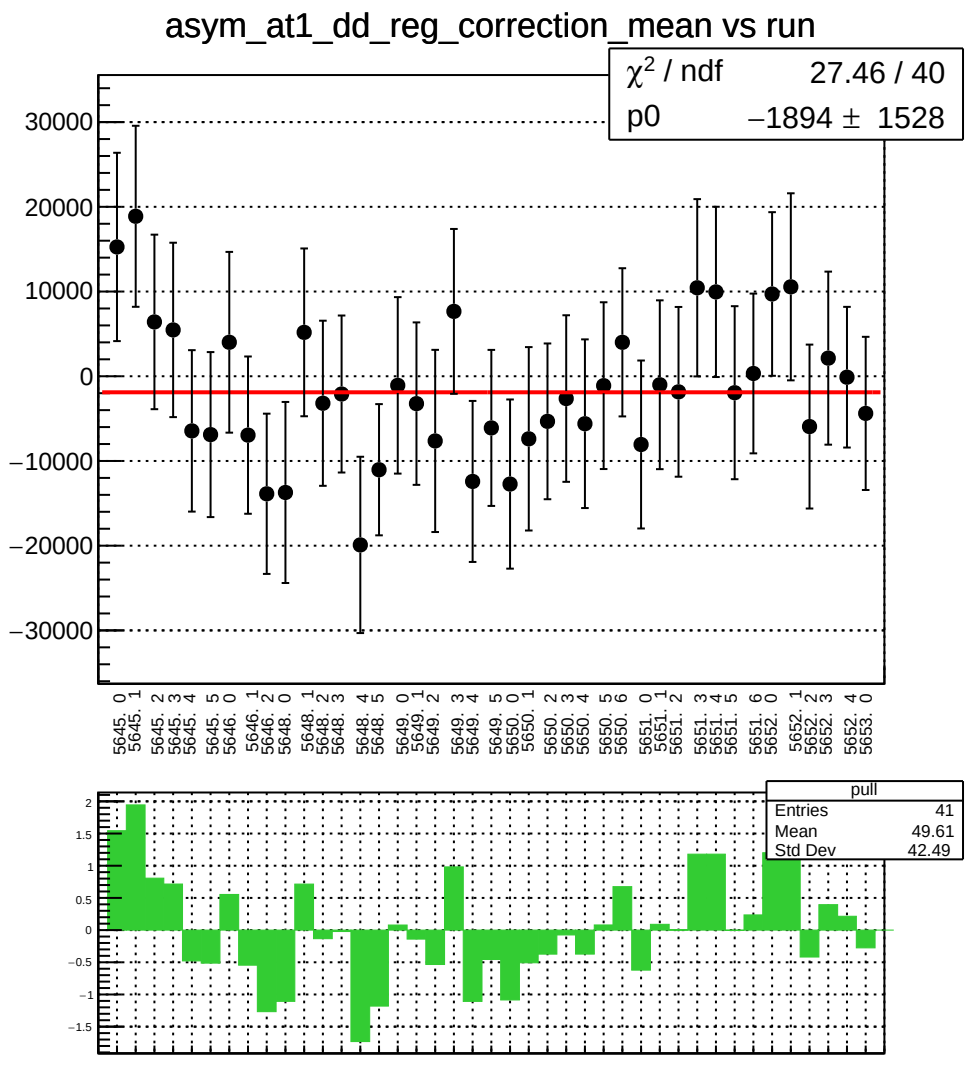

pull1D
Entries 41
Mean 0.04281
Std Dev 0.8904

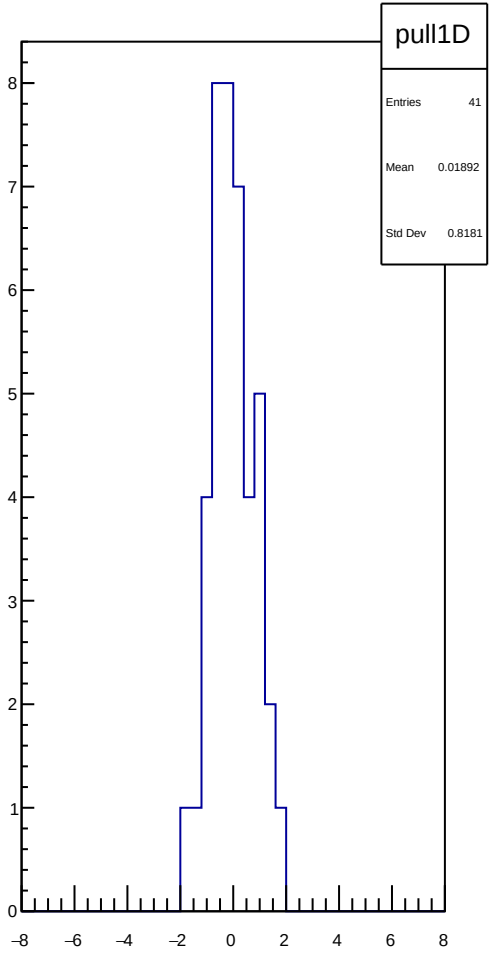

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.181e+05 / 40
p0 2.043e−11 ± 2.974e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

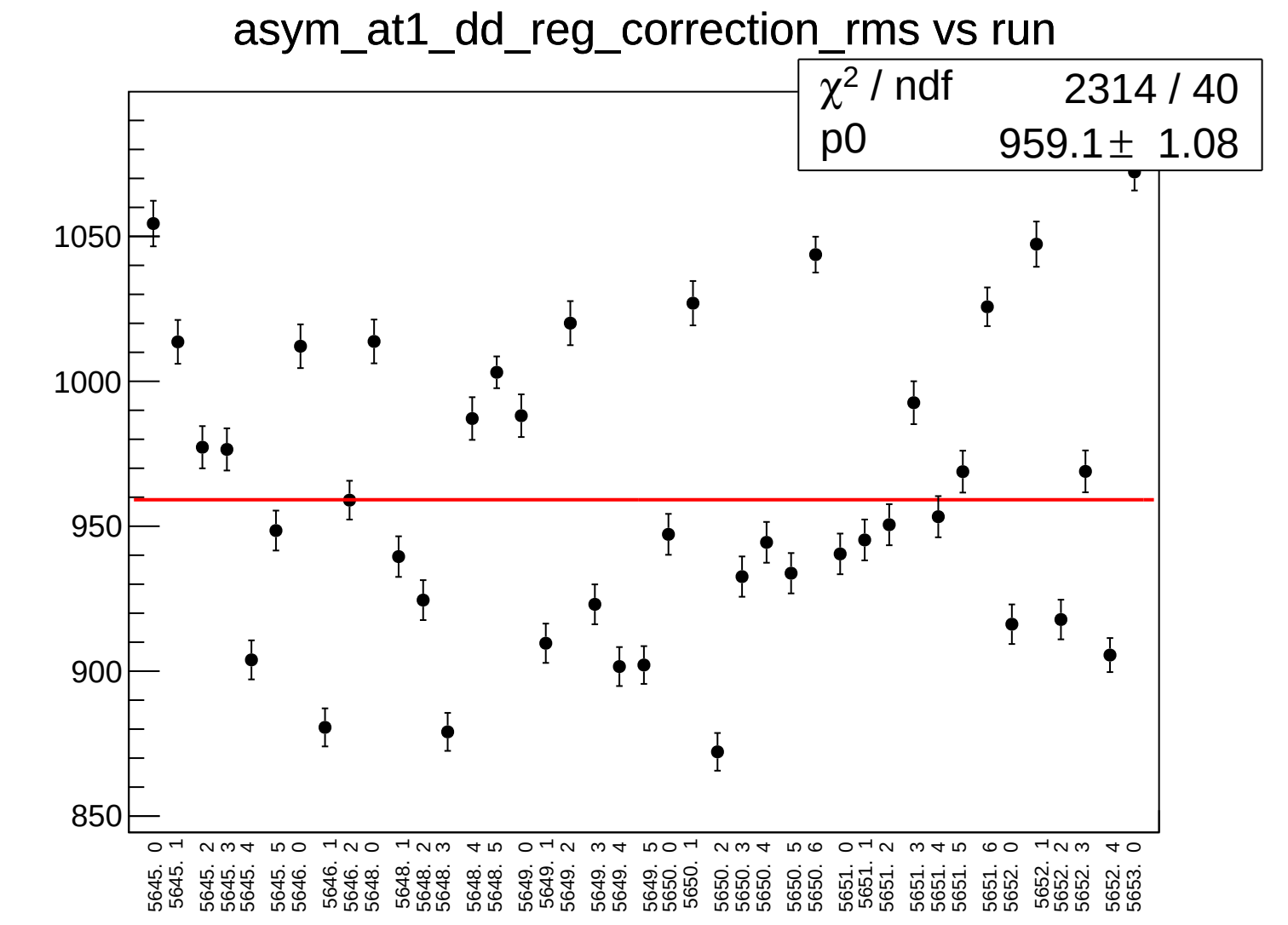

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 49.8 / 40
p0 −441.5 ± 3464
pull
Entries 41
Mean −3040
Std Dev 0

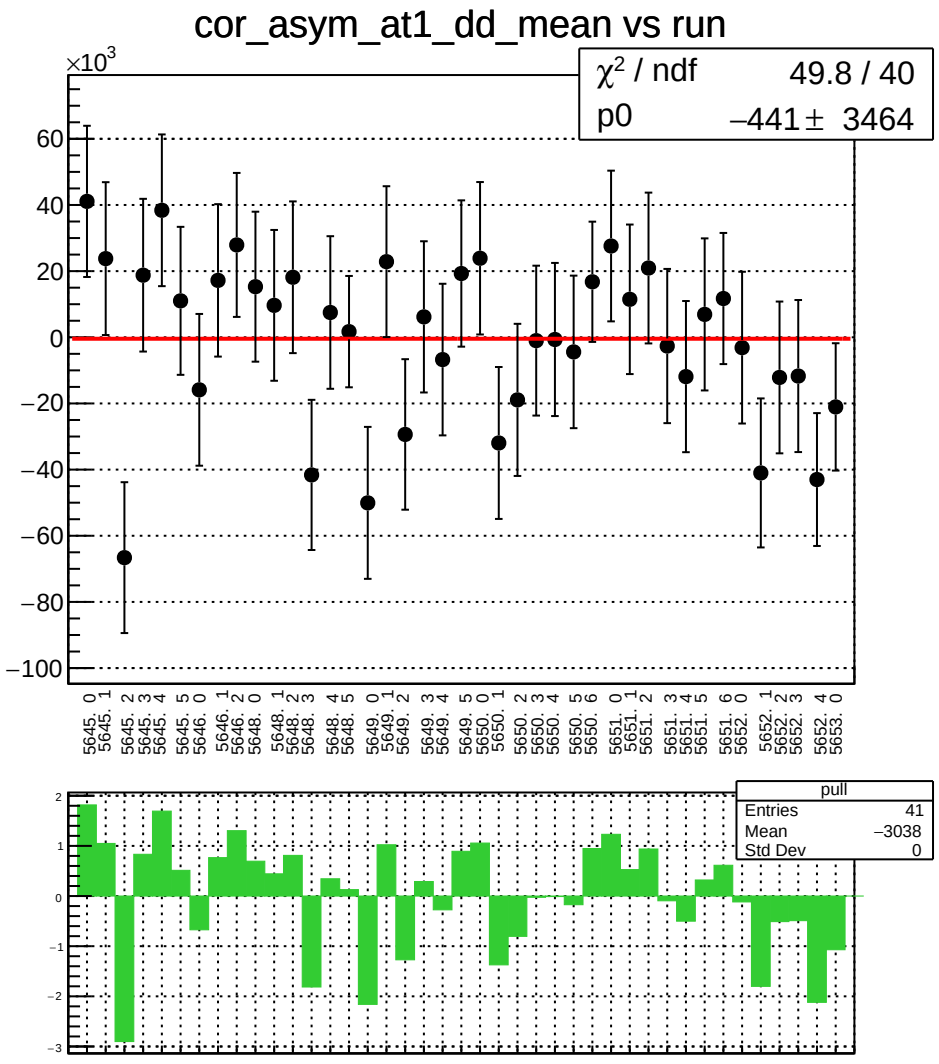

pull1D
Entries 41
Mean 0.001161
Std Dev 1.102

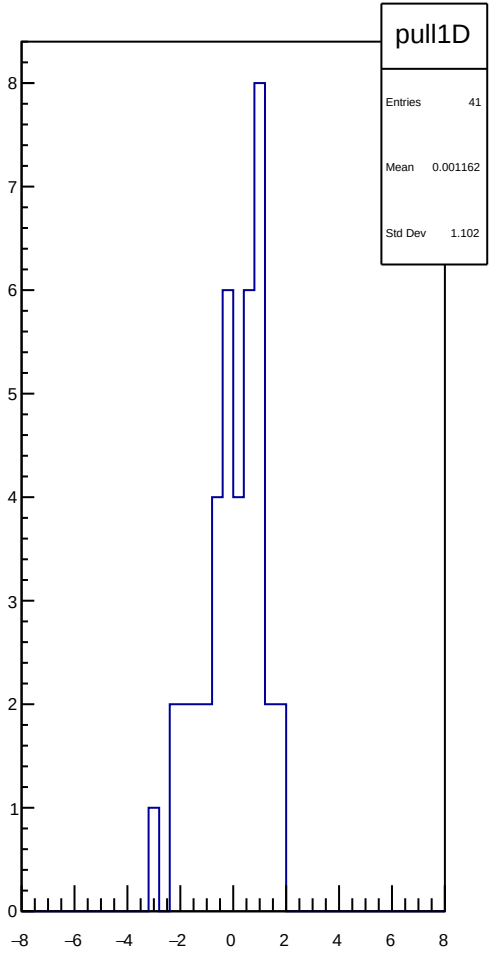

reg_asym_at1_dd_rms vs run
χ² / ndf 102 / 40
p0 2177 ± 2.449
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

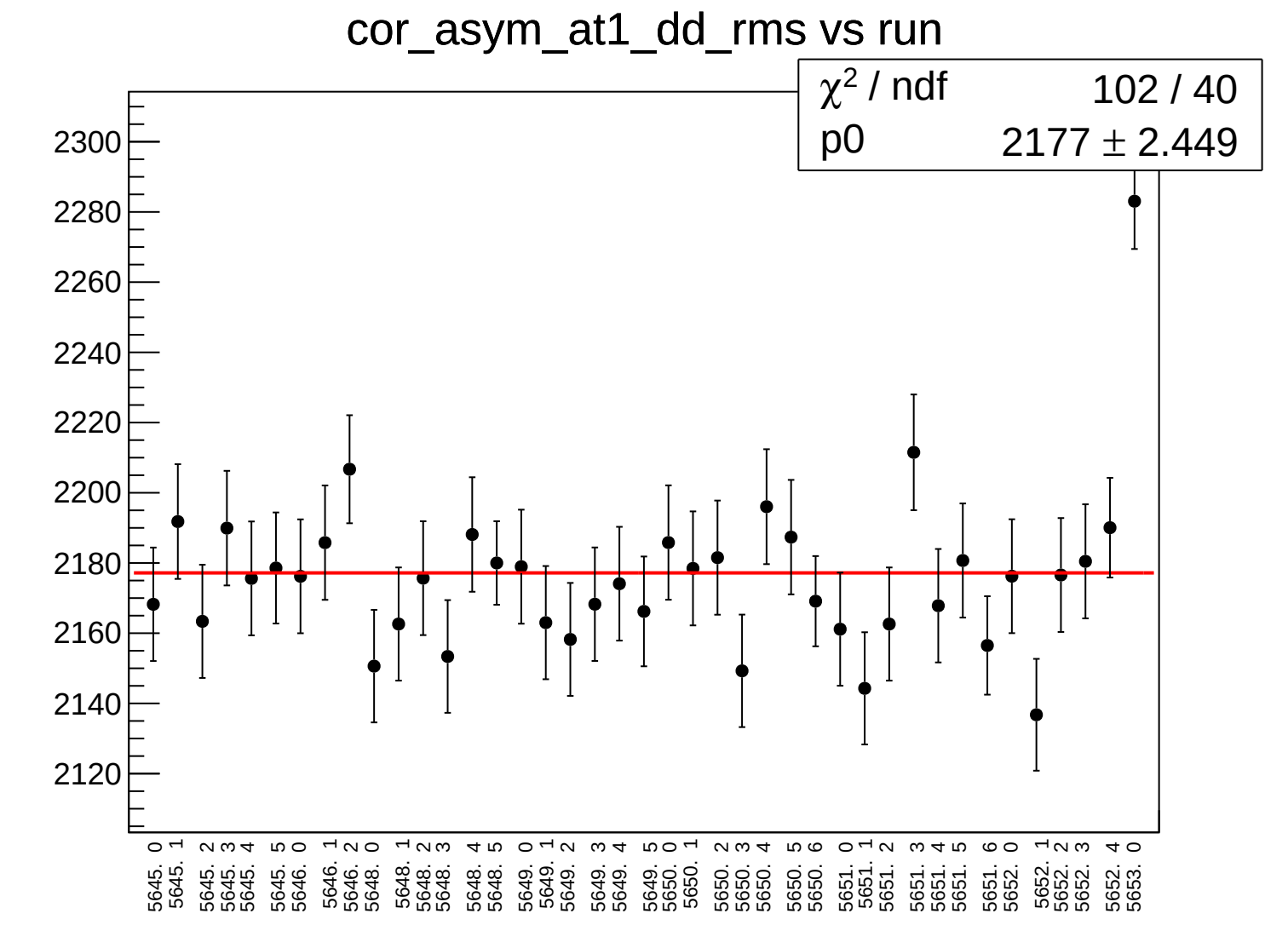

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 27.46 / 40
p0 −1894 ± 1528
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 49.61
Std Dev 42.49
2
1.5
1
0.5
0
−0.5
−1
−1.5

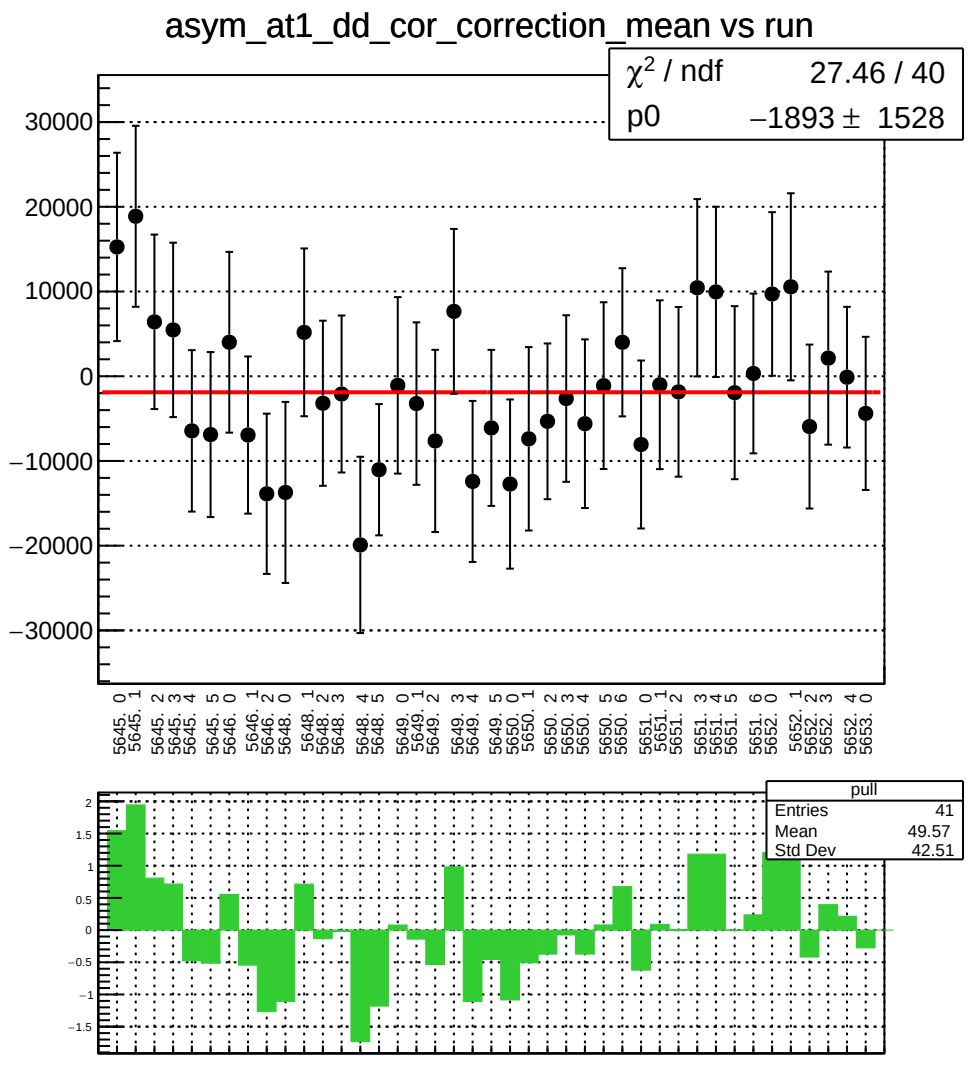

pull1D
Entries 41
Mean 0.01892
Std Dev 0.8181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

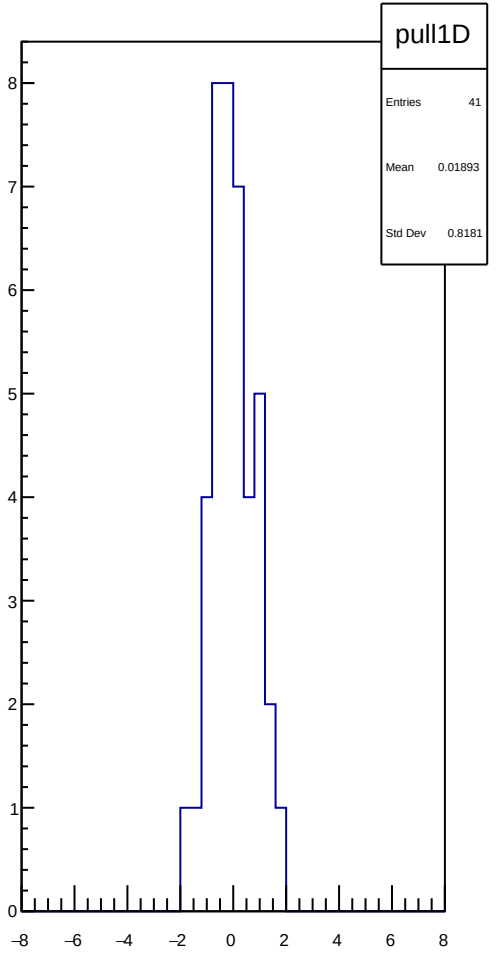

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2314 / 40
p0 959.1 ± 1.08
1050
1000
950
900
850
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

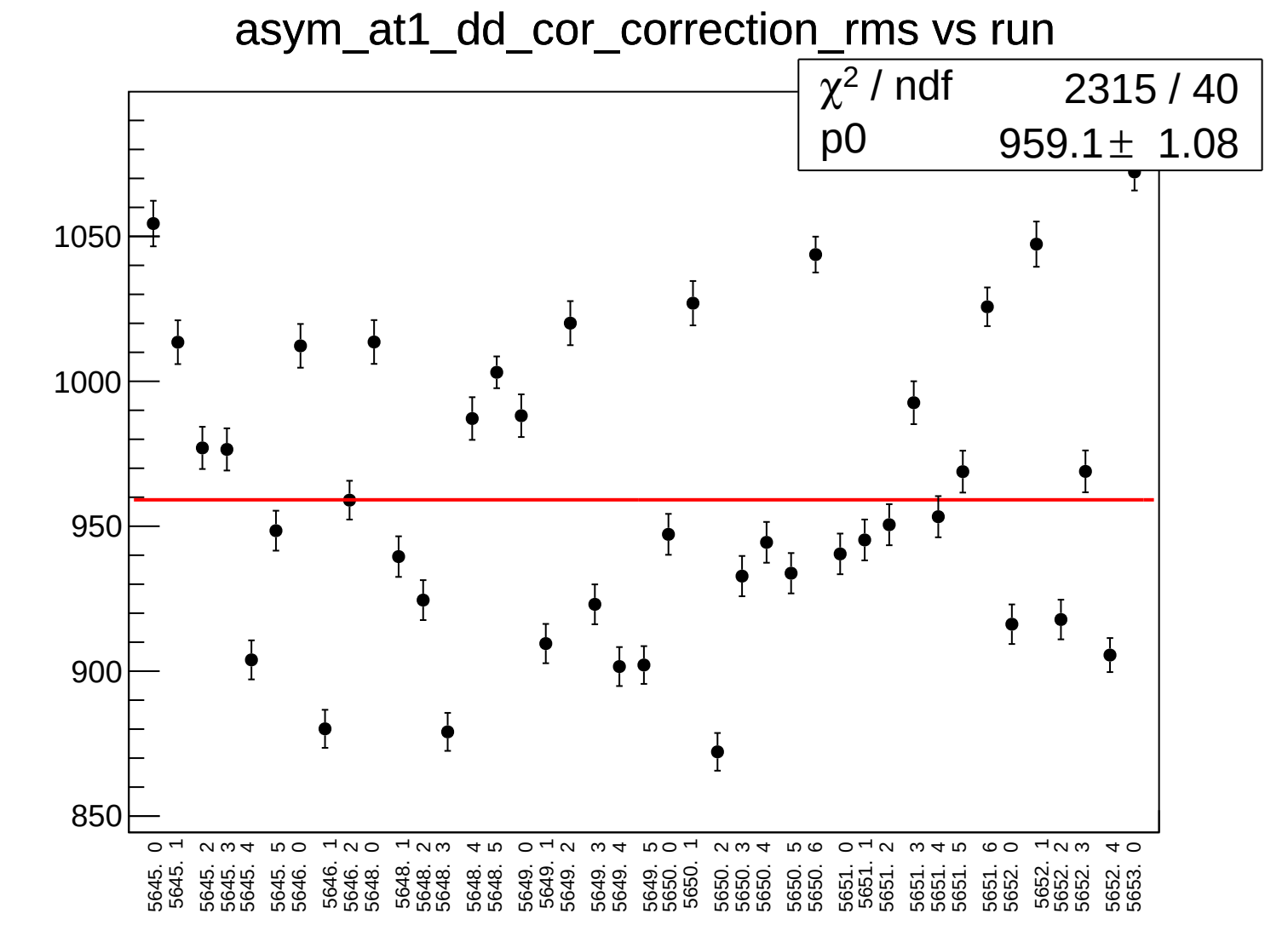

cor_asym_at1_dd_mean vs run
×10^3
χ² / ndf 49.8 / 40
p0 −441 ± 3464
pull
Entries 41
Mean −3038
Std Dev 0

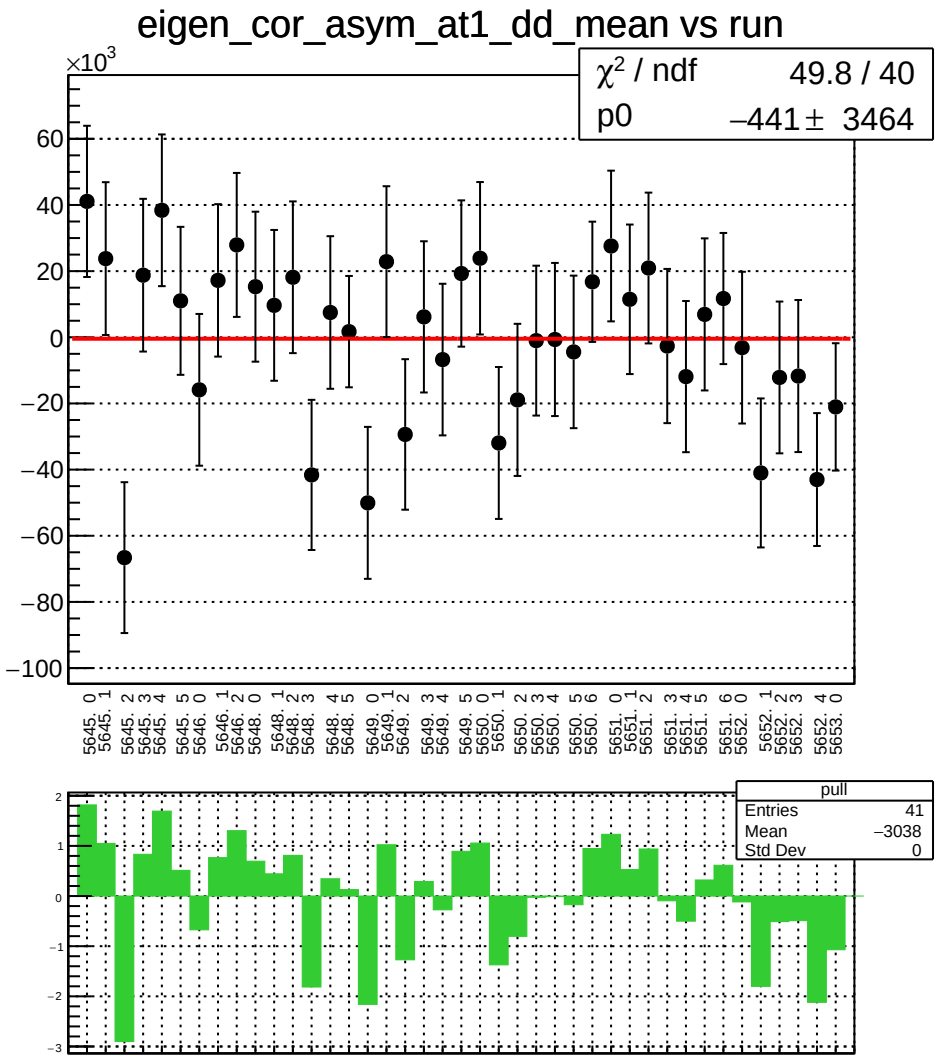

pull1D
Entries 41
Mean 0.001162
Std Dev 1.102

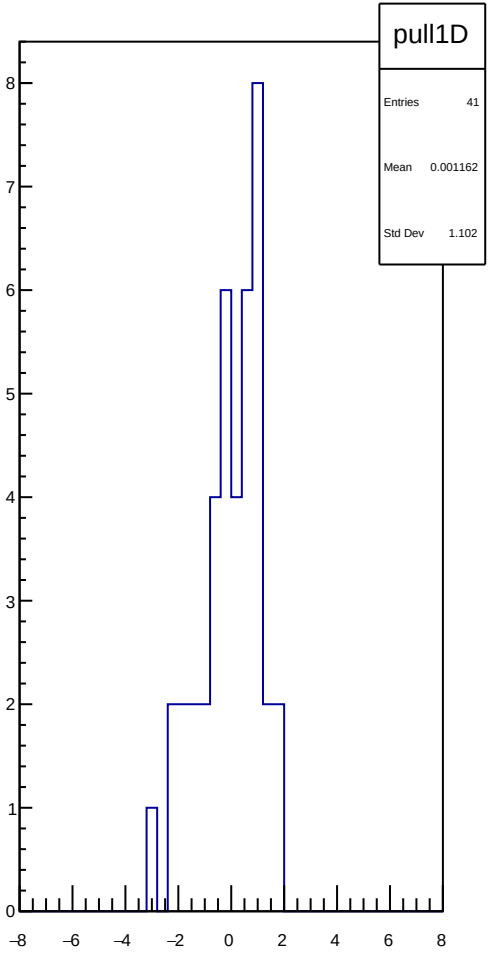

cor_asym_at1_dd_rms vs run
χ² / ndf 102 / 40
p0 2177 ± 2.449
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

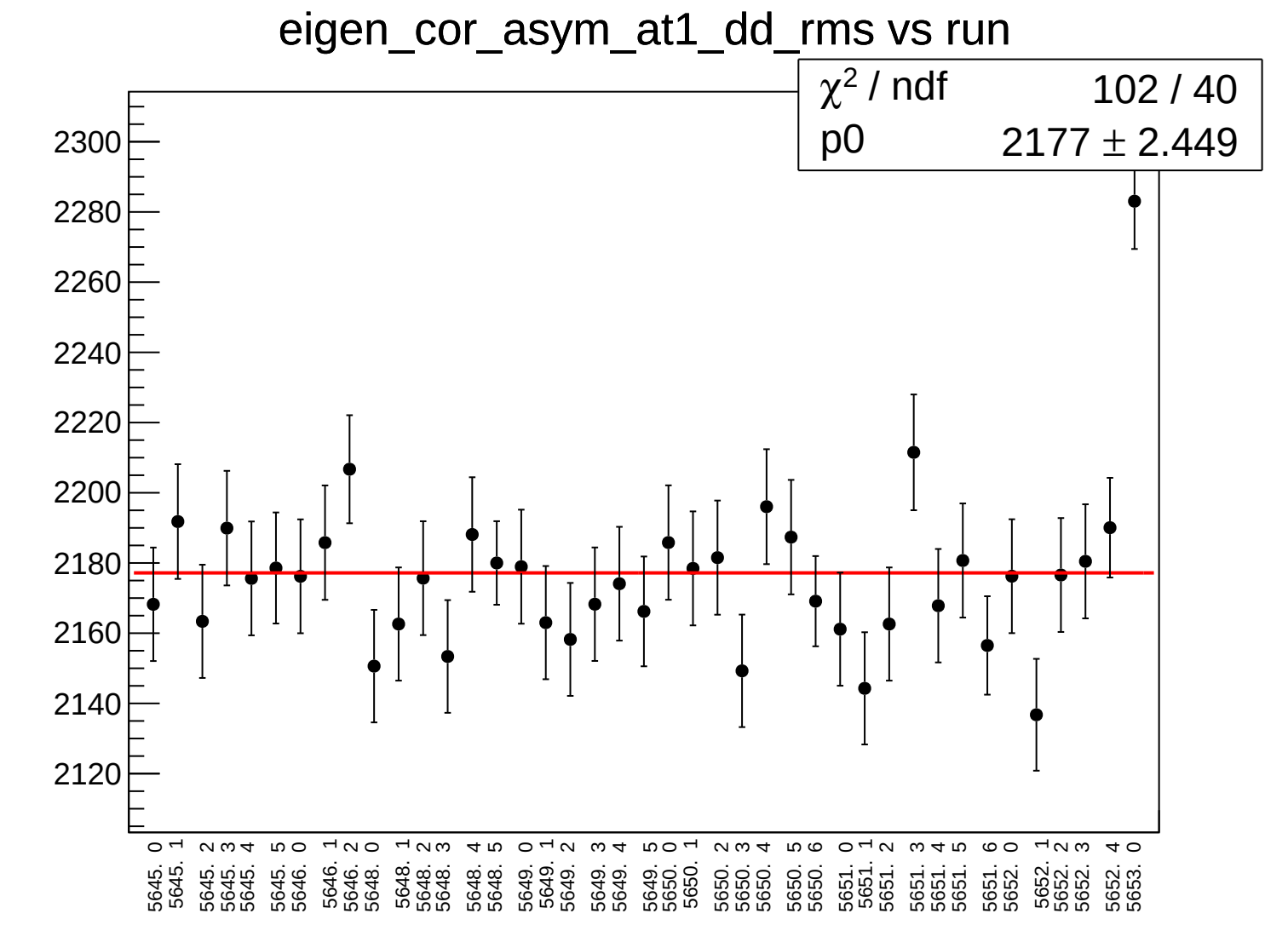

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 27.46 / 40
p0 −1893 ± 1528
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 49.57
Std Dev 42.51
2
1.5
1
0.5
0
−0.5
−1
−1.5

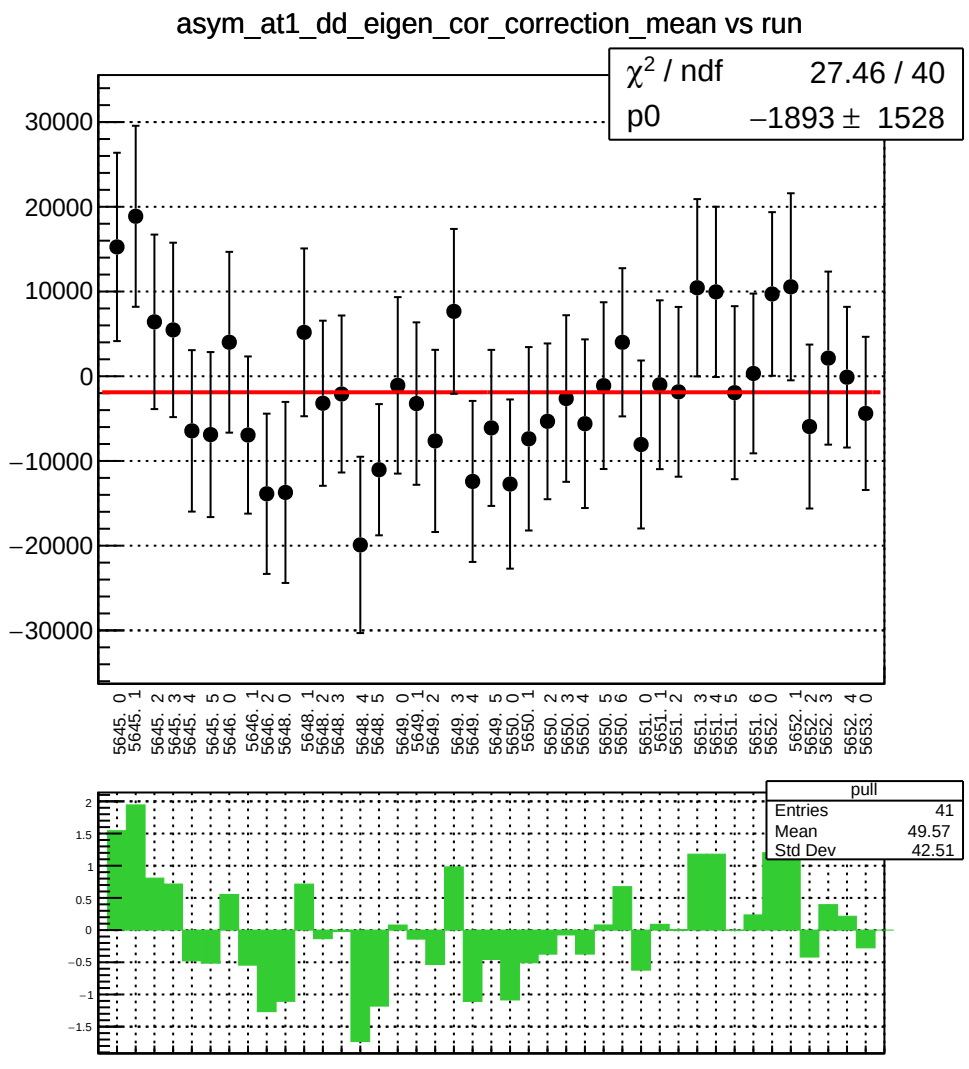

pull1D
Entries 41
Mean 0.01893
Std Dev 0.8181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

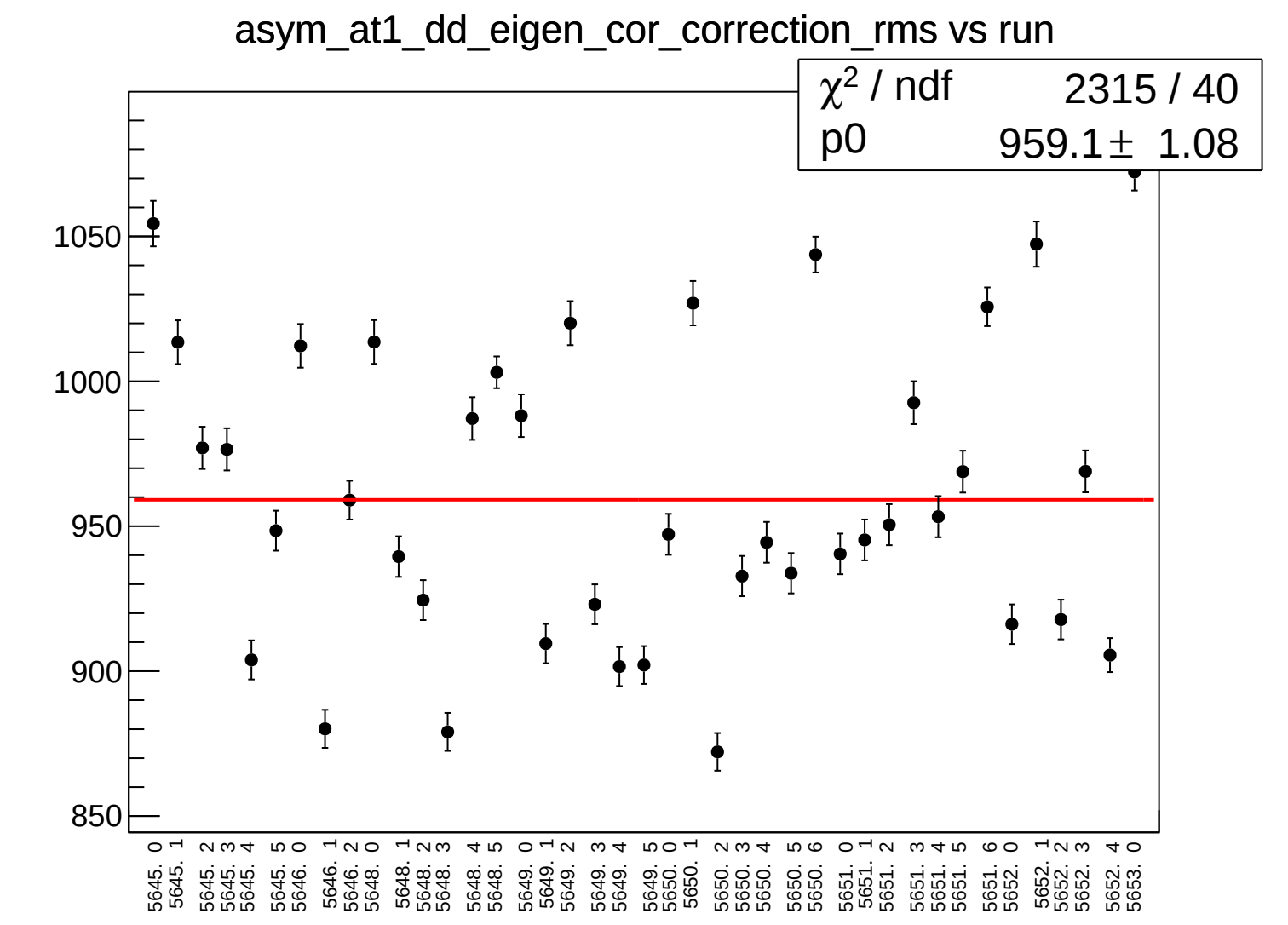

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2315 / 40
p0 959.1 ± 1.08
1050
1000
950
900
850
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

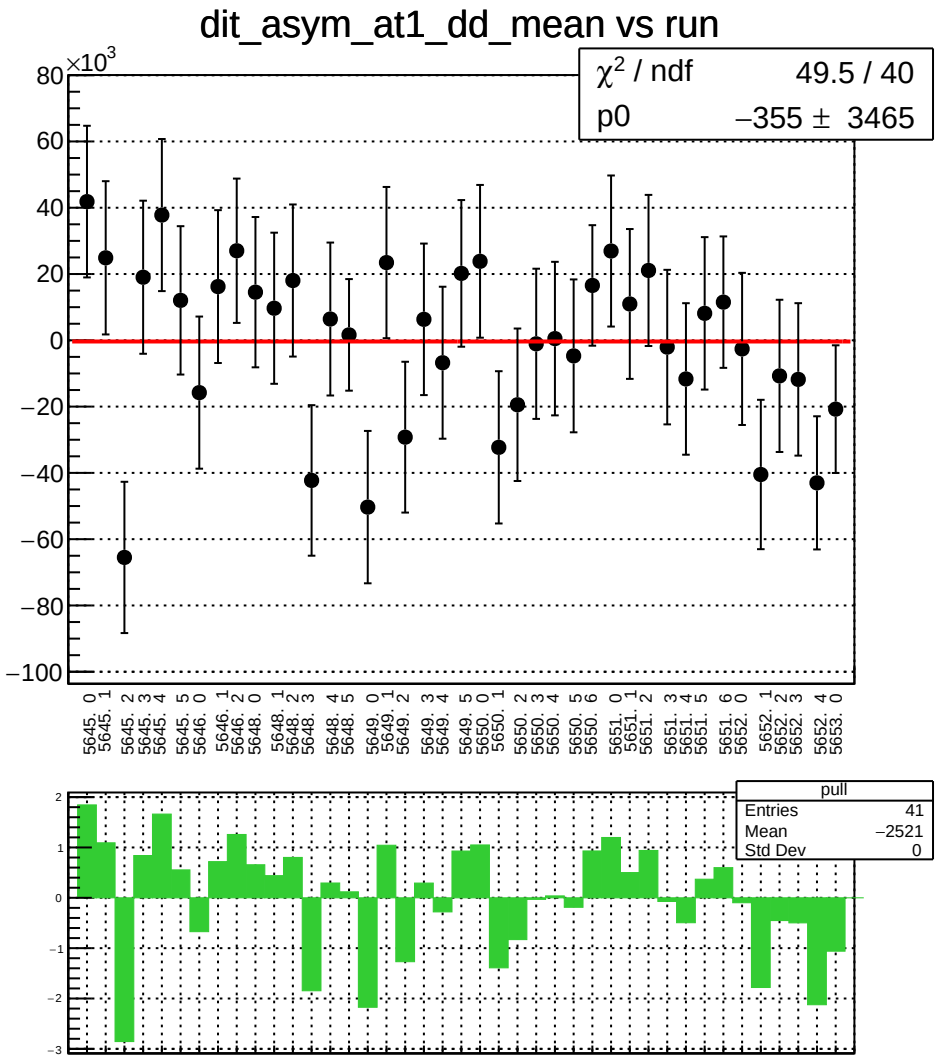

eigen_cor_asym_at1_dd_mean vs run
×10^3
χ² / ndf 49.8 / 40
p0 −441 ± 3464
pull
Entries 41
Mean −3038
Std Dev 0

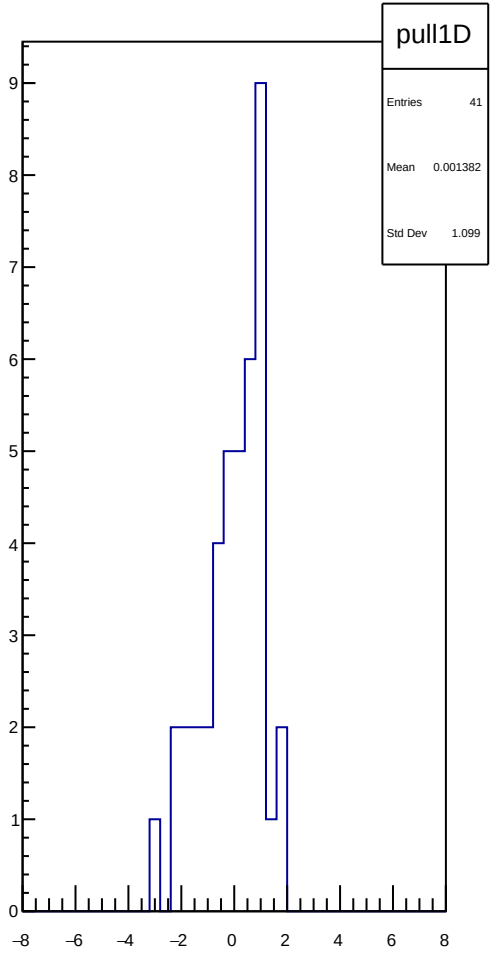

pull1D
Entries 41
Mean 0.001162
Std Dev 1.102

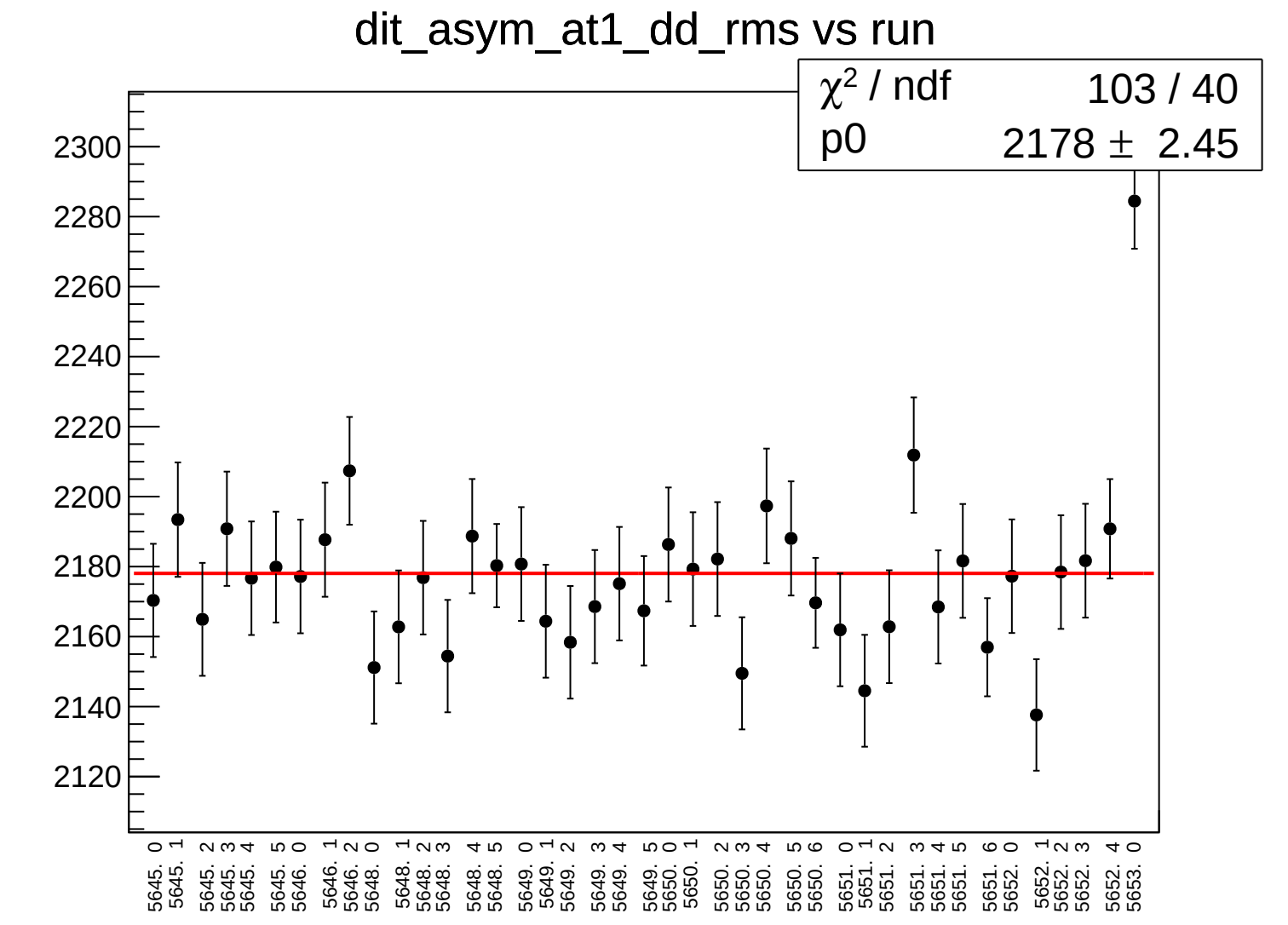

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 102 / 40
p0 2177 ± 2.449
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

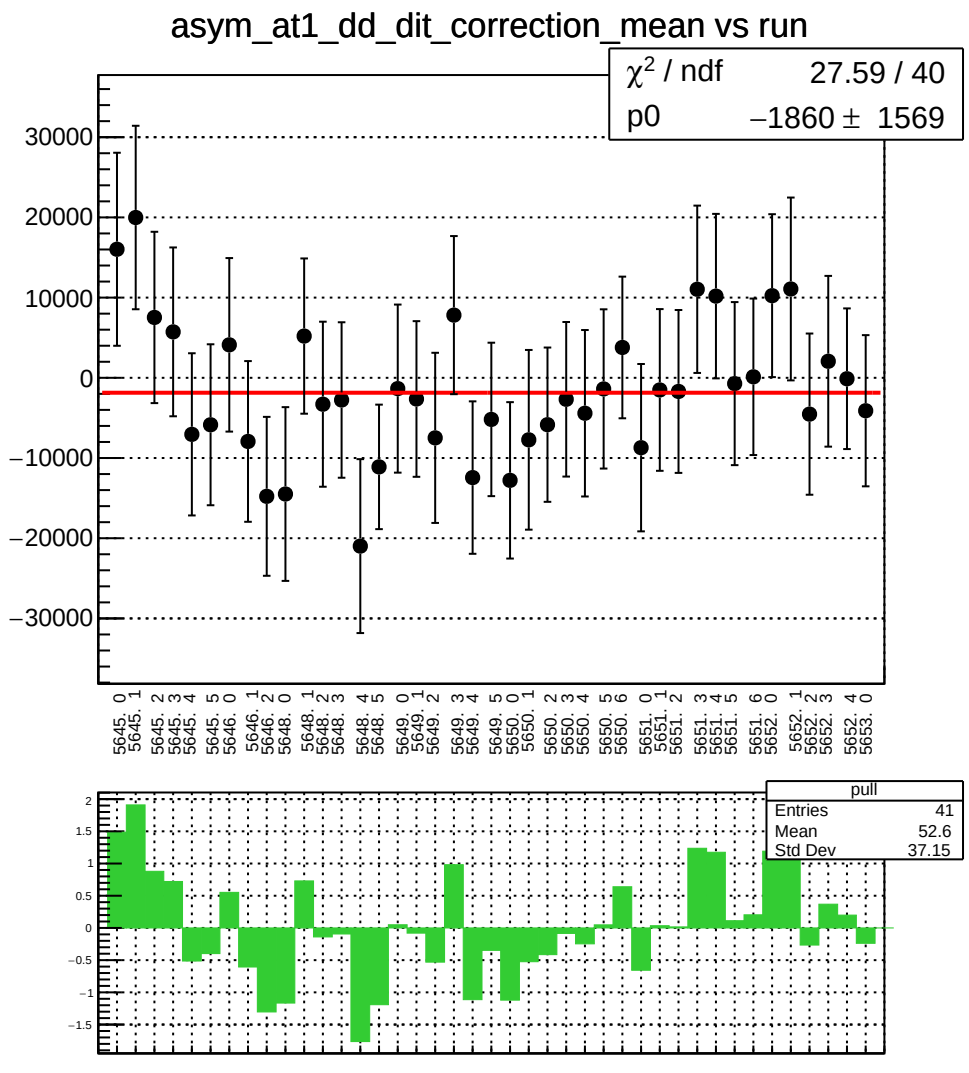

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.46 / 40
p0 −1893 ± 1528
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 49.57
Std Dev 42.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01893
Std Dev 0.8181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

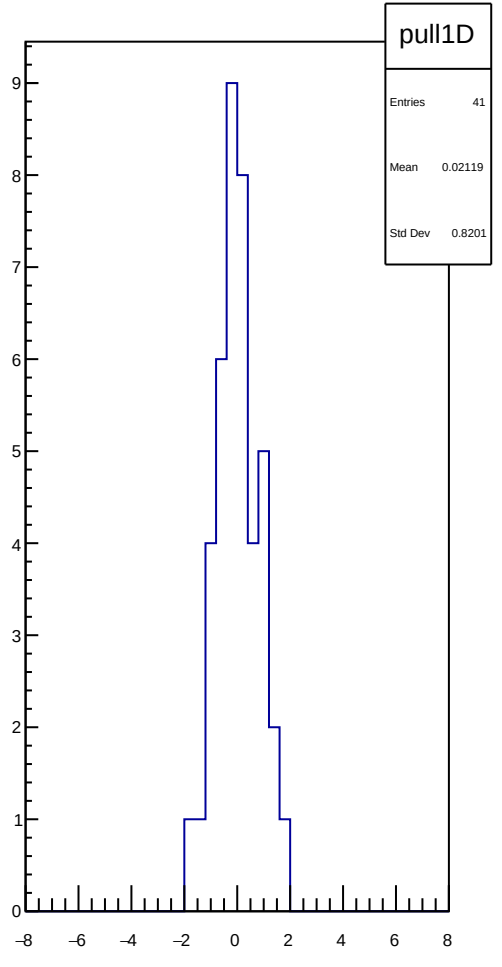

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2315 / 40
p0 959.1 ± 1.08
1050
1000
950
900
850
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

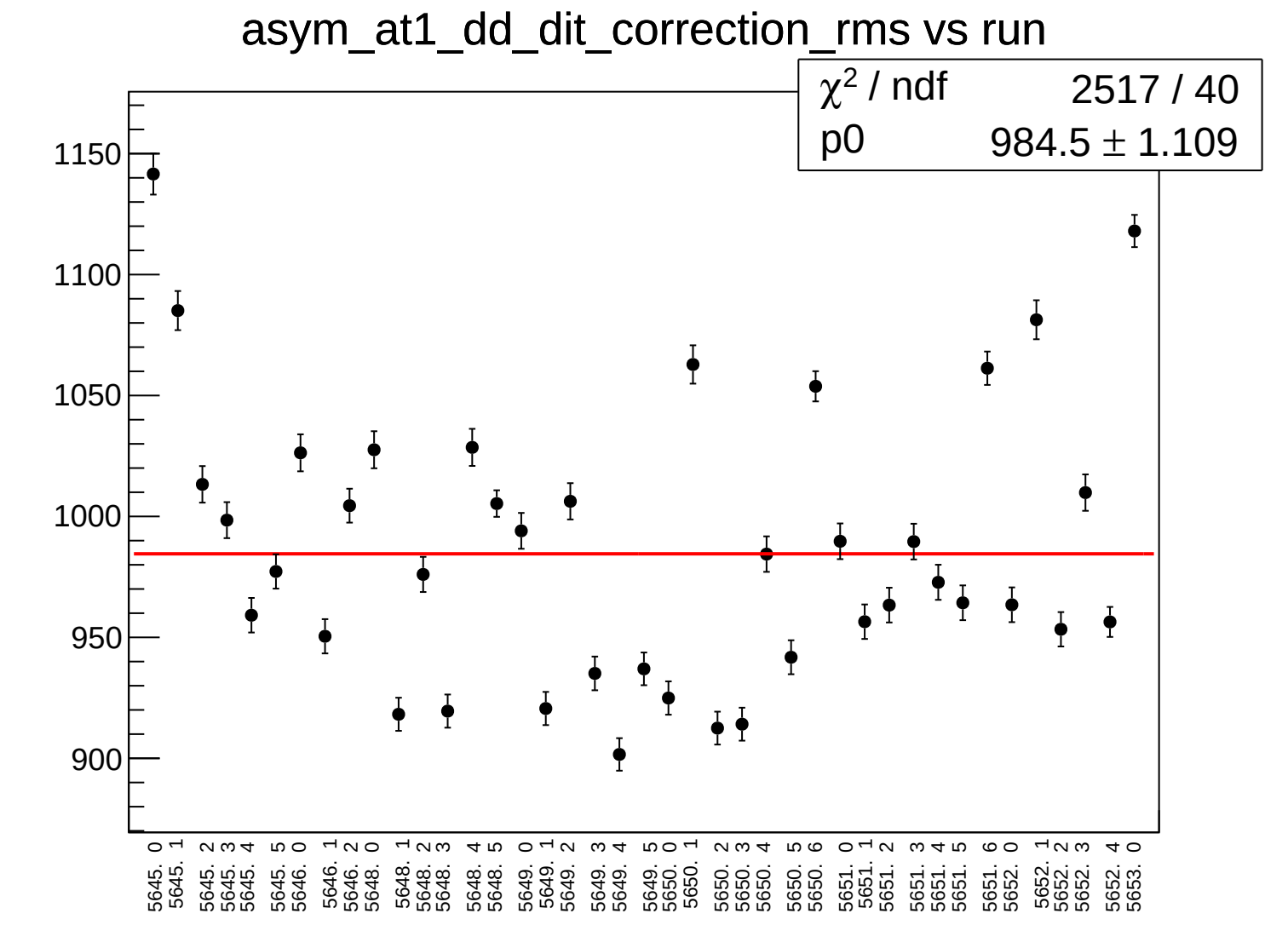

dit_asym_at1_dd_mean vs run
χ² / ndf 49.5 / 40
p0 −355 ± 3465
×10³
pull
Entries 41
Mean −2521
Std Dev 0

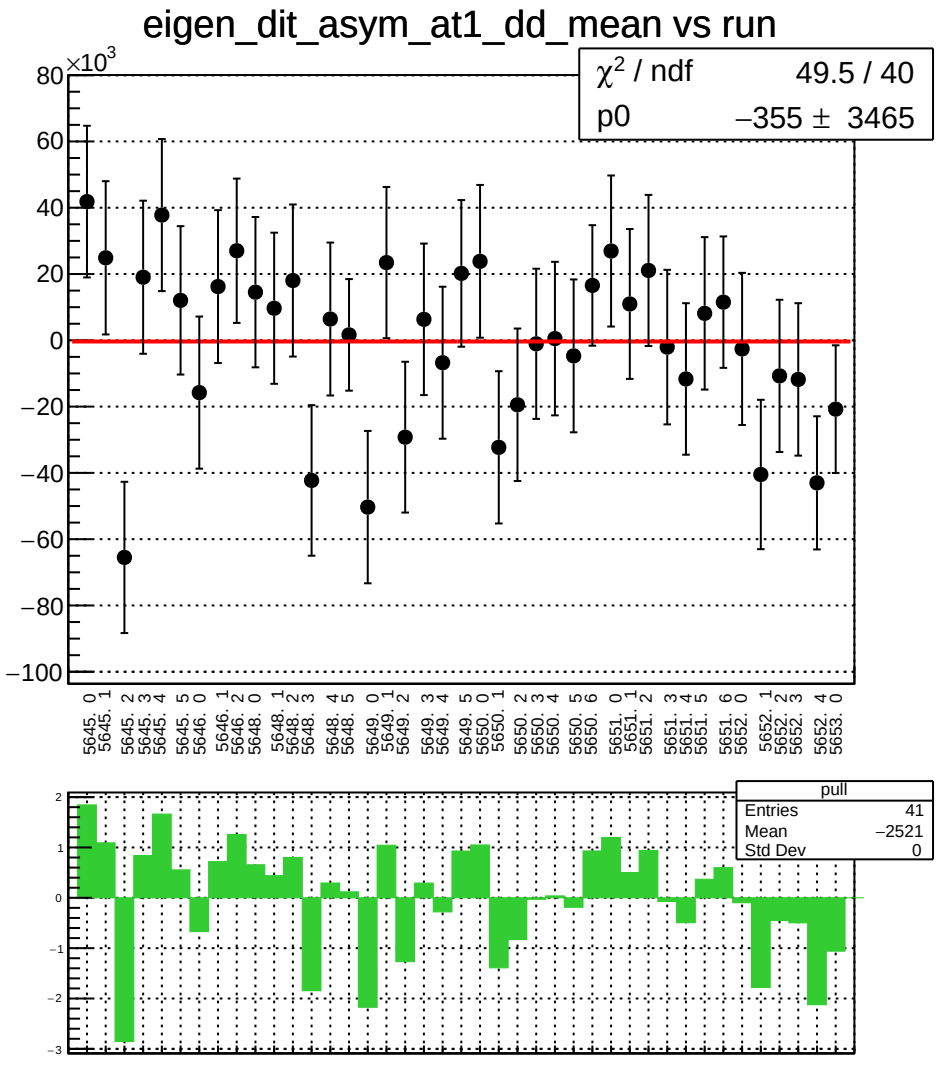

pull1D
Entries 41
Mean 0.001382
Std Dev 1.099

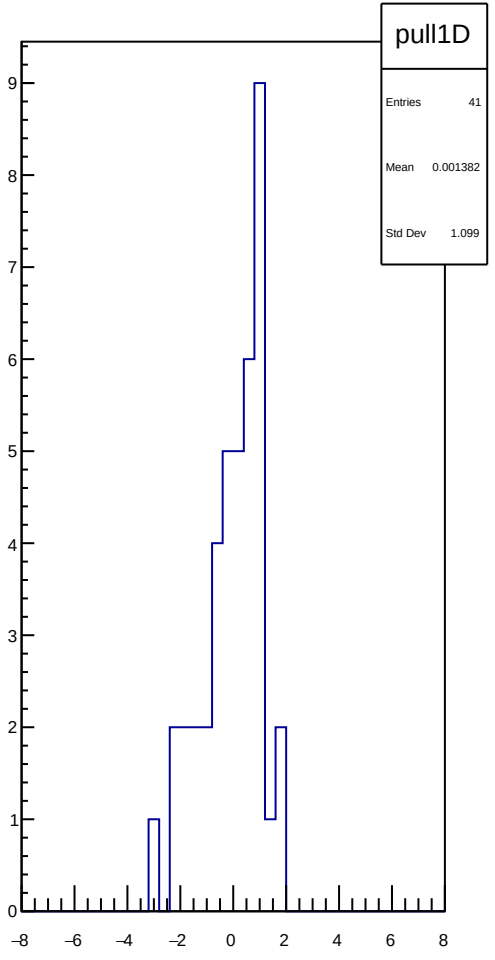

dit_asym_at1_dd_rms vs run
χ² / ndf 103 / 40
p0 2178 ± 2.45
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

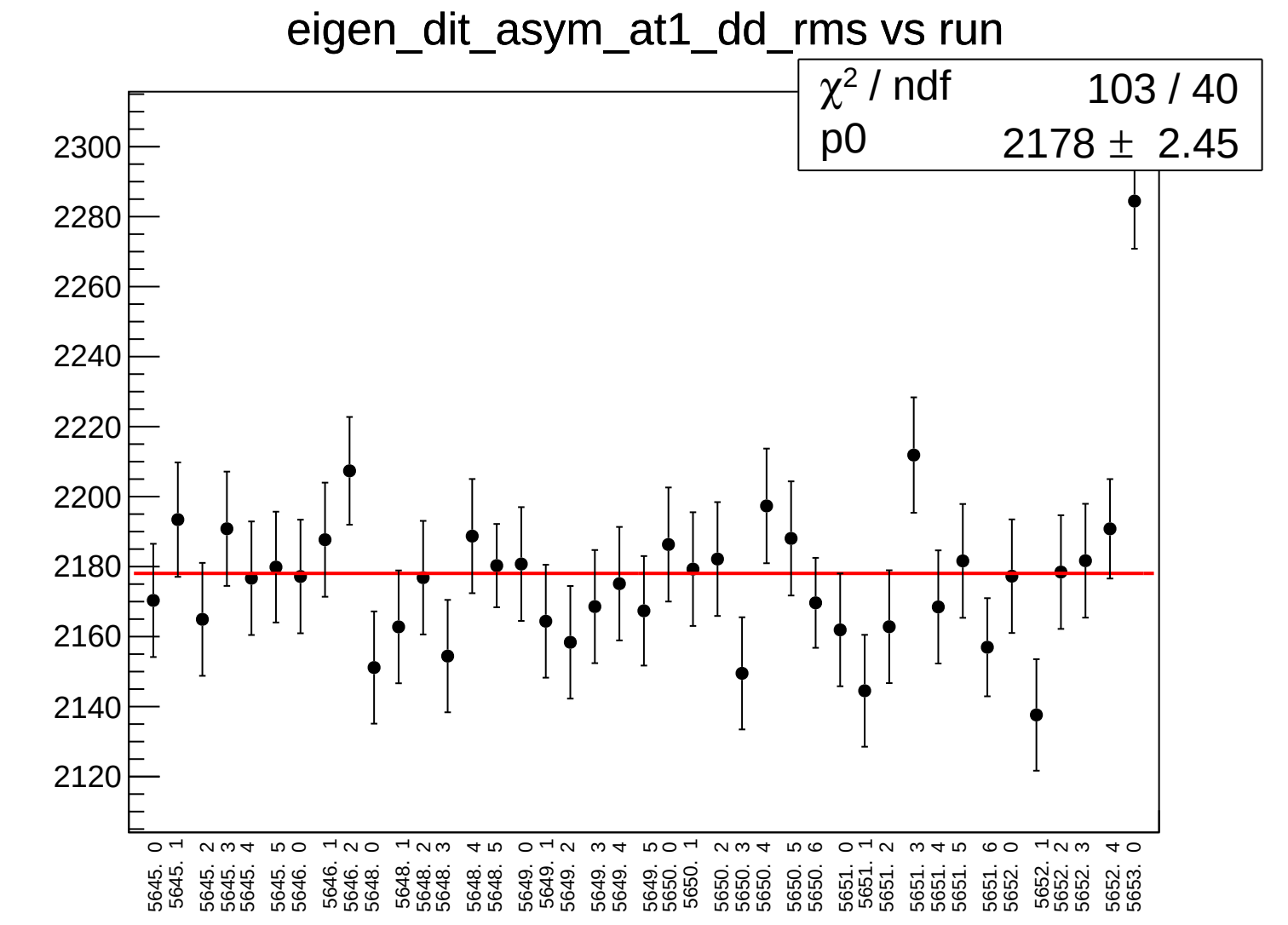

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 27.59 / 40
p0 −1860 ± 1569
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 52.6
Std Dev 37.15
2
1.5
1
0.5
0
−0.5
−1
−1.5

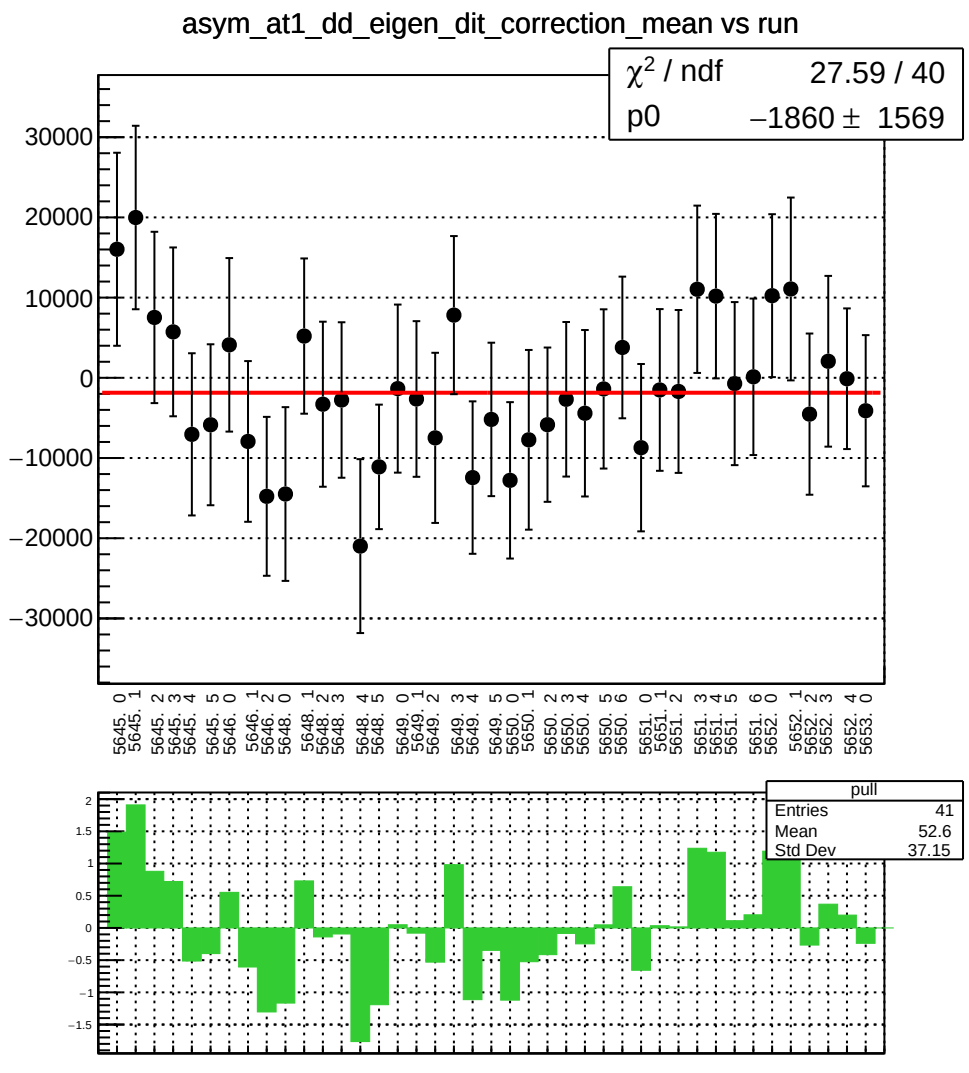

pull1D
Entries 41
Mean 0.02119
Std Dev 0.8201
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

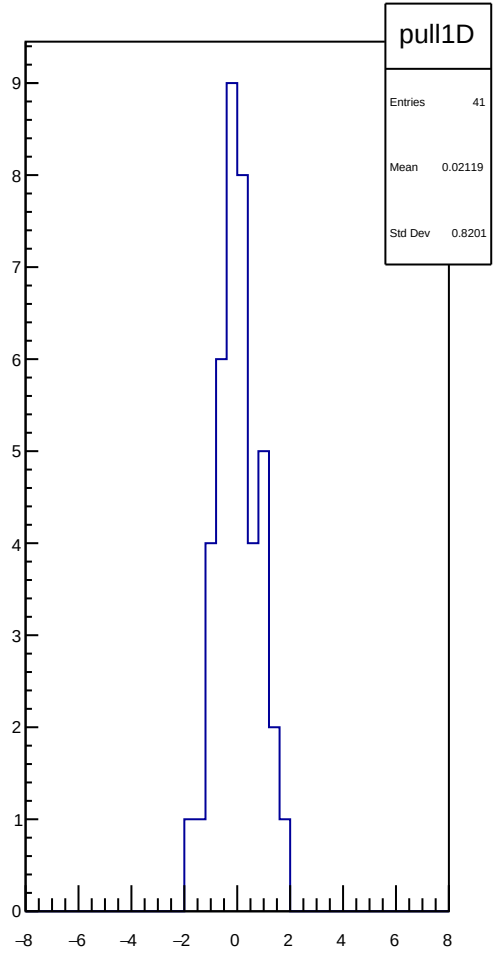

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2517 / 40
p0 984.5 ± 1.109
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

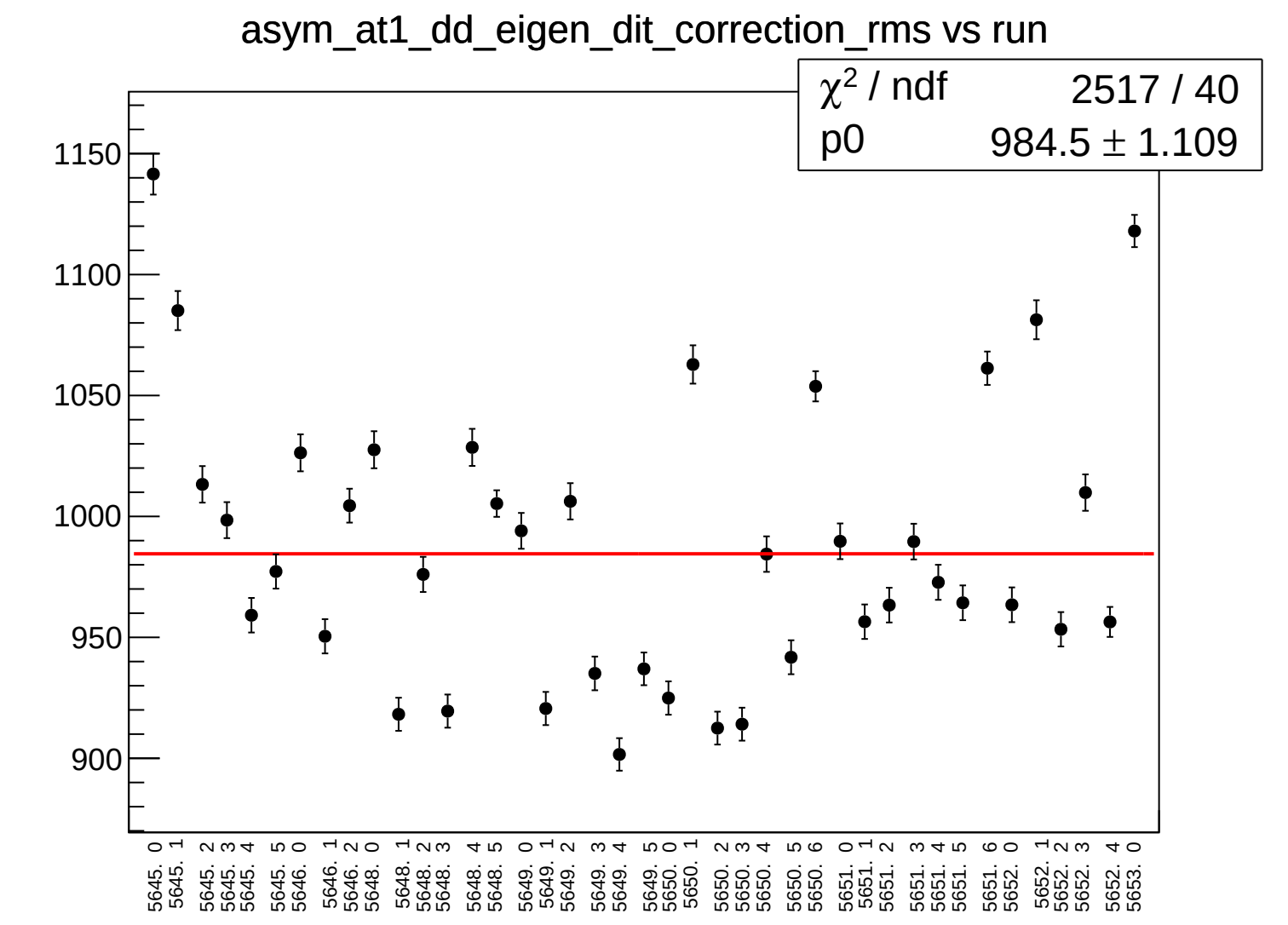

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 49.5 / 40
p0 −355 ± 3465
×10³
pull
Entries 41
Mean −2521
Std Dev 0

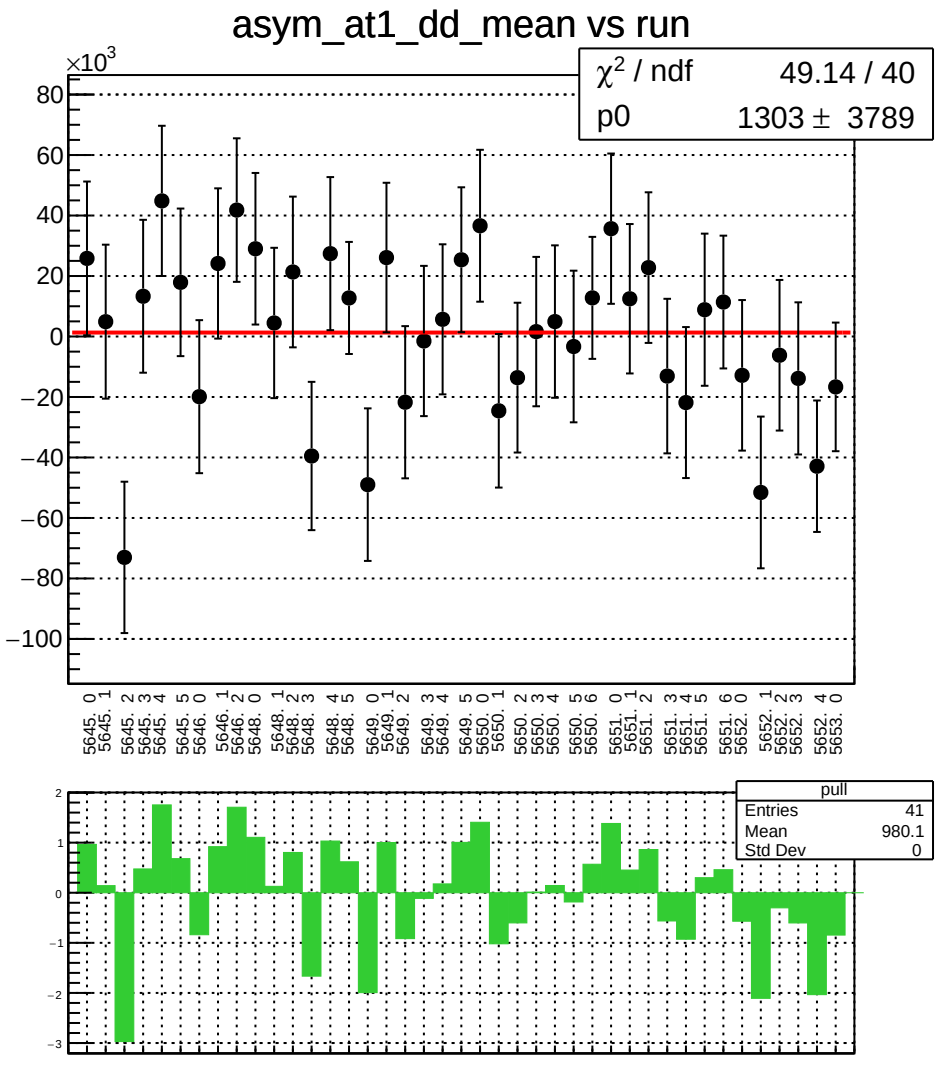

pull1D
Entries 41
Mean 0.001382
Std Dev 1.099

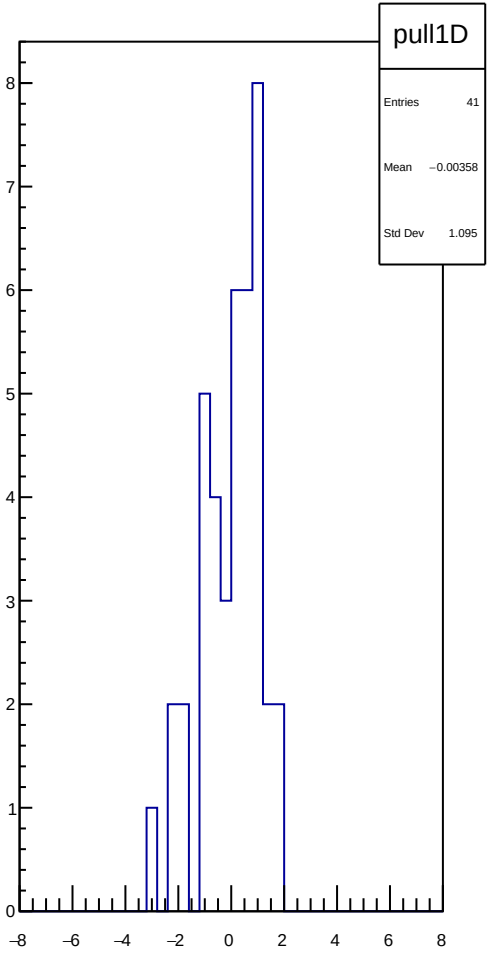

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 103 / 40
p0 2178 ± 2.45
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

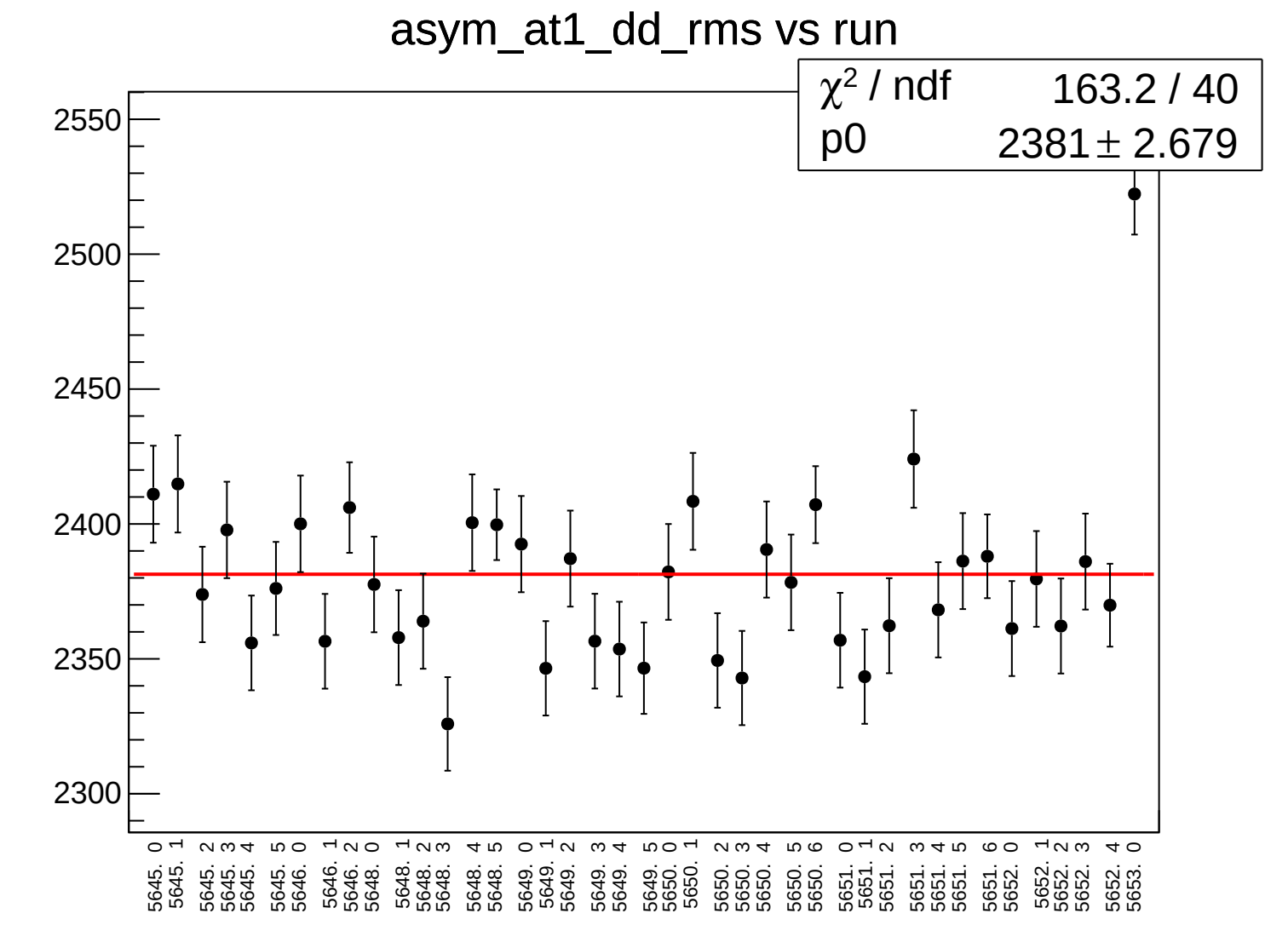

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 27.59 / 40
p0 −1860 ± 1569
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 52.6
Std Dev 37.15
2
1.5
1
0.5
0
−0.5
−1
−1.5

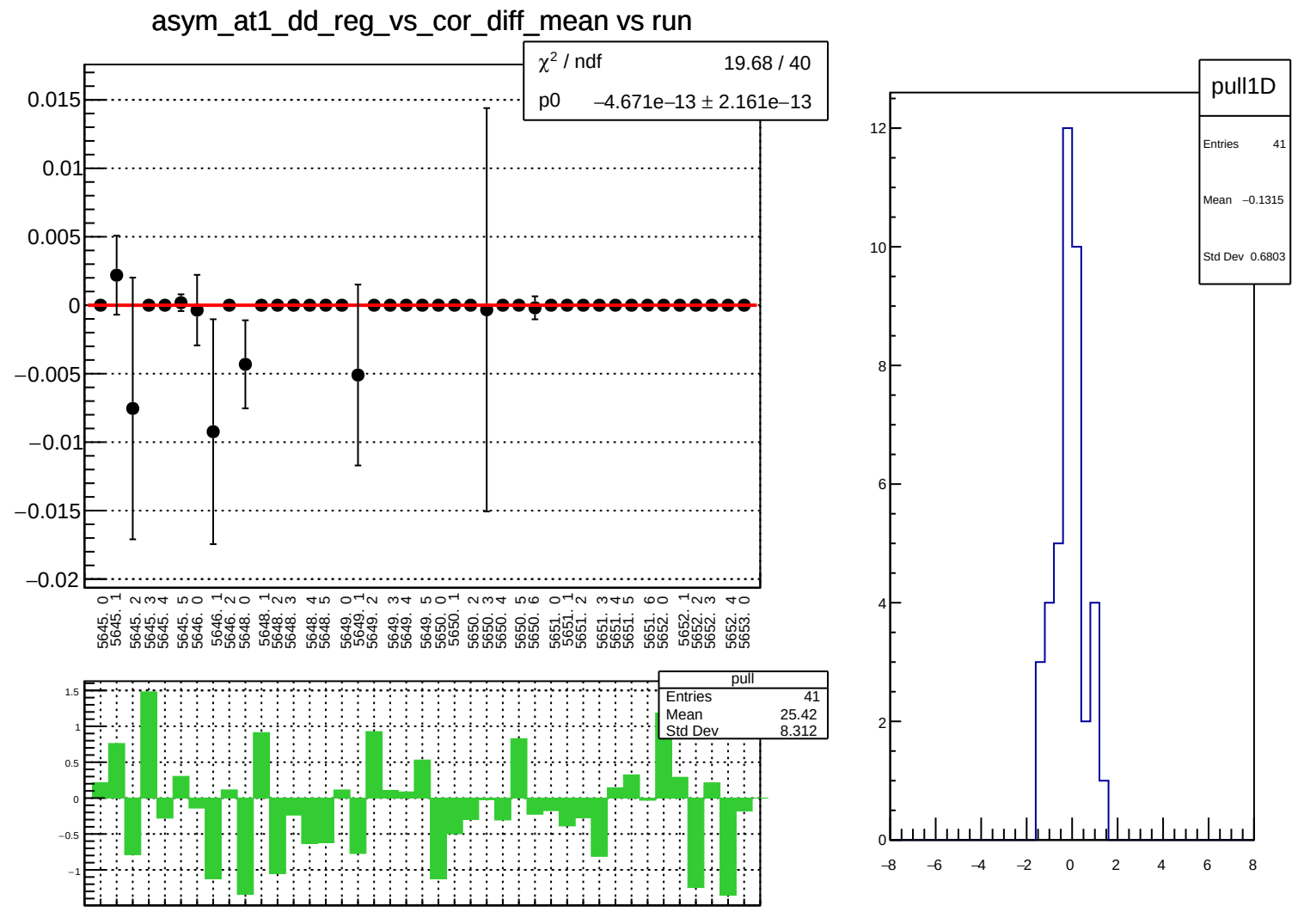

pull1D
Entries 41
Mean 0.02119
Std Dev 0.8201
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

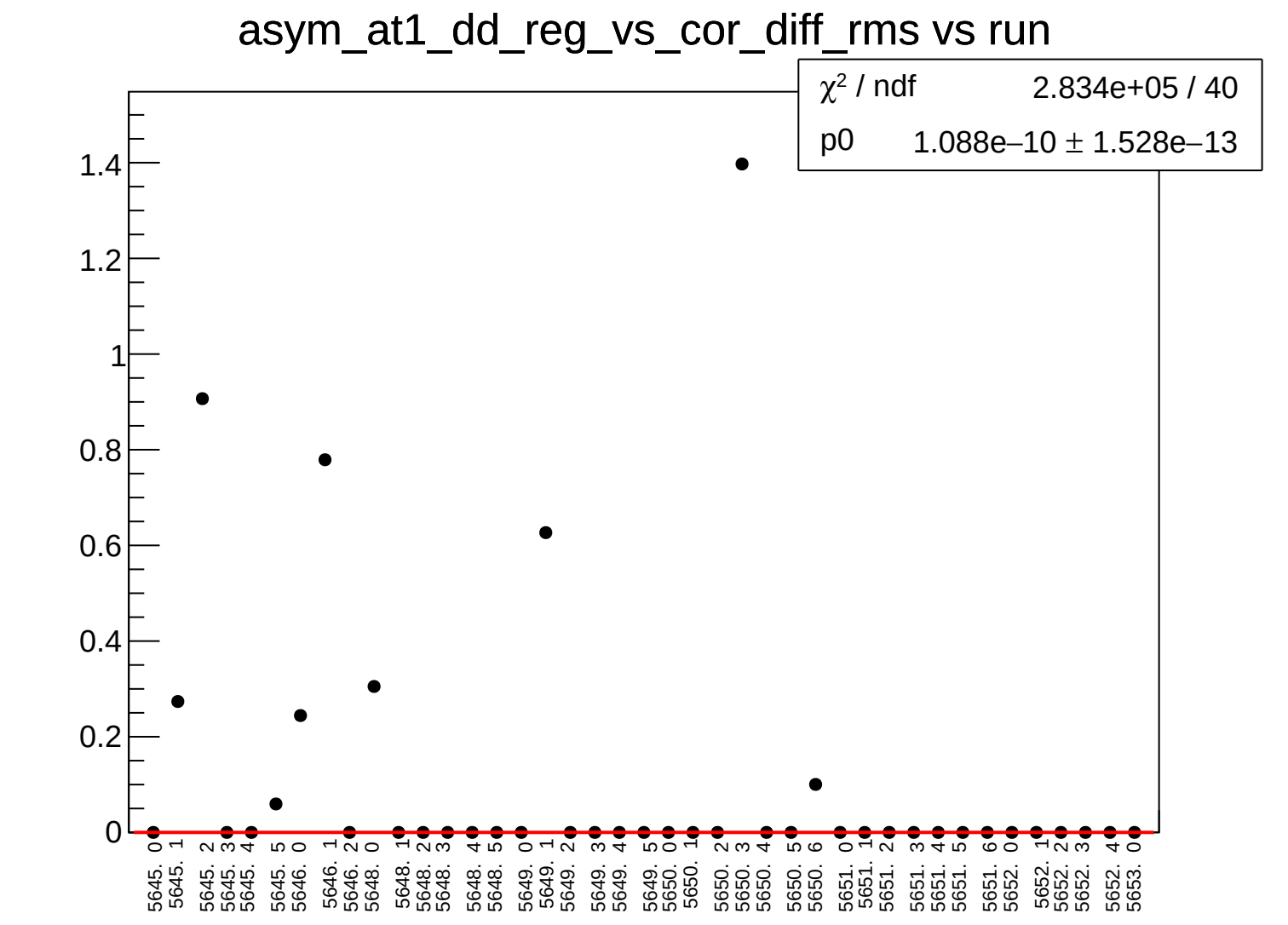

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2517 / 40
p0 984.5 ± 1.109
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

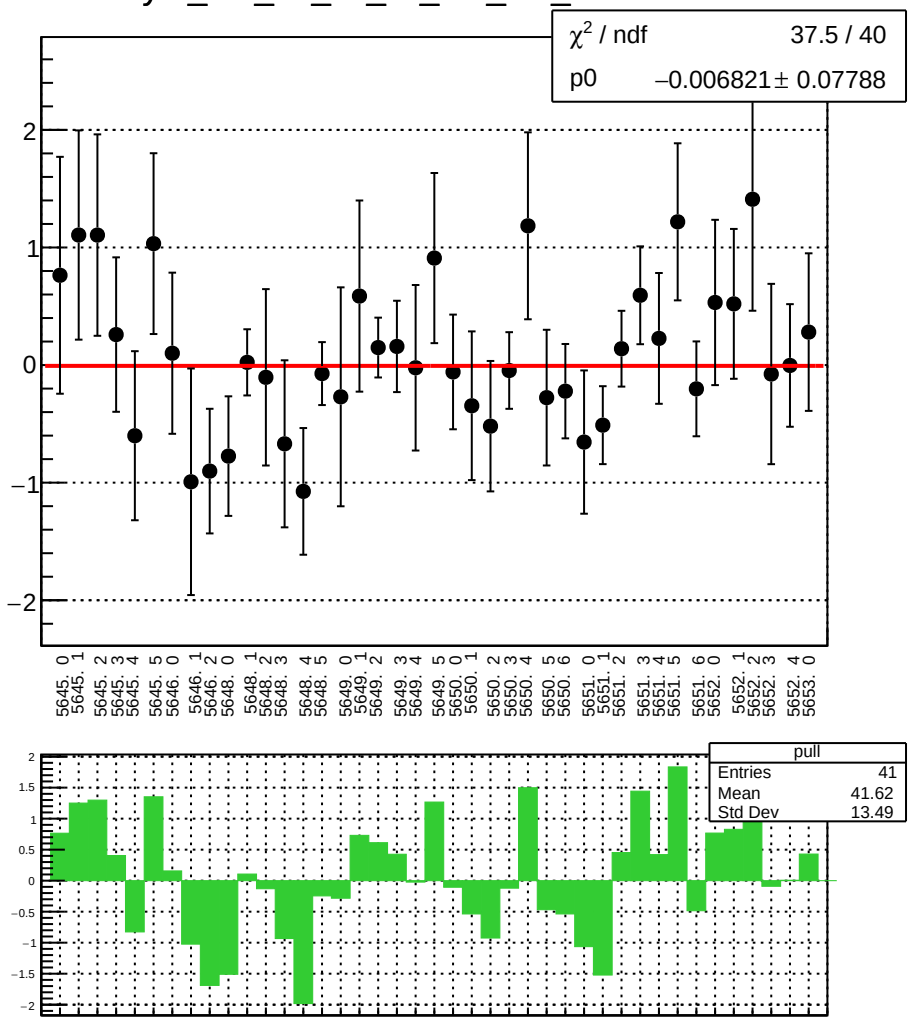

asym_at1_dd_mean vs run
×10^3
χ² / ndf 49.14 / 40
p0 1303 ± 3789
pull
Entries 41
Mean 980.1
Std Dev 0

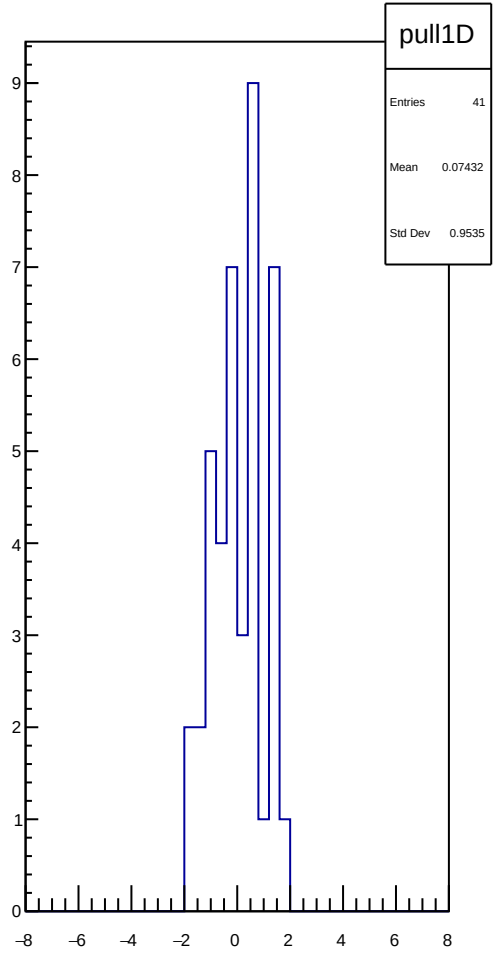

pull1D
Entries 41
Mean −0.00358
Std Dev 1.095

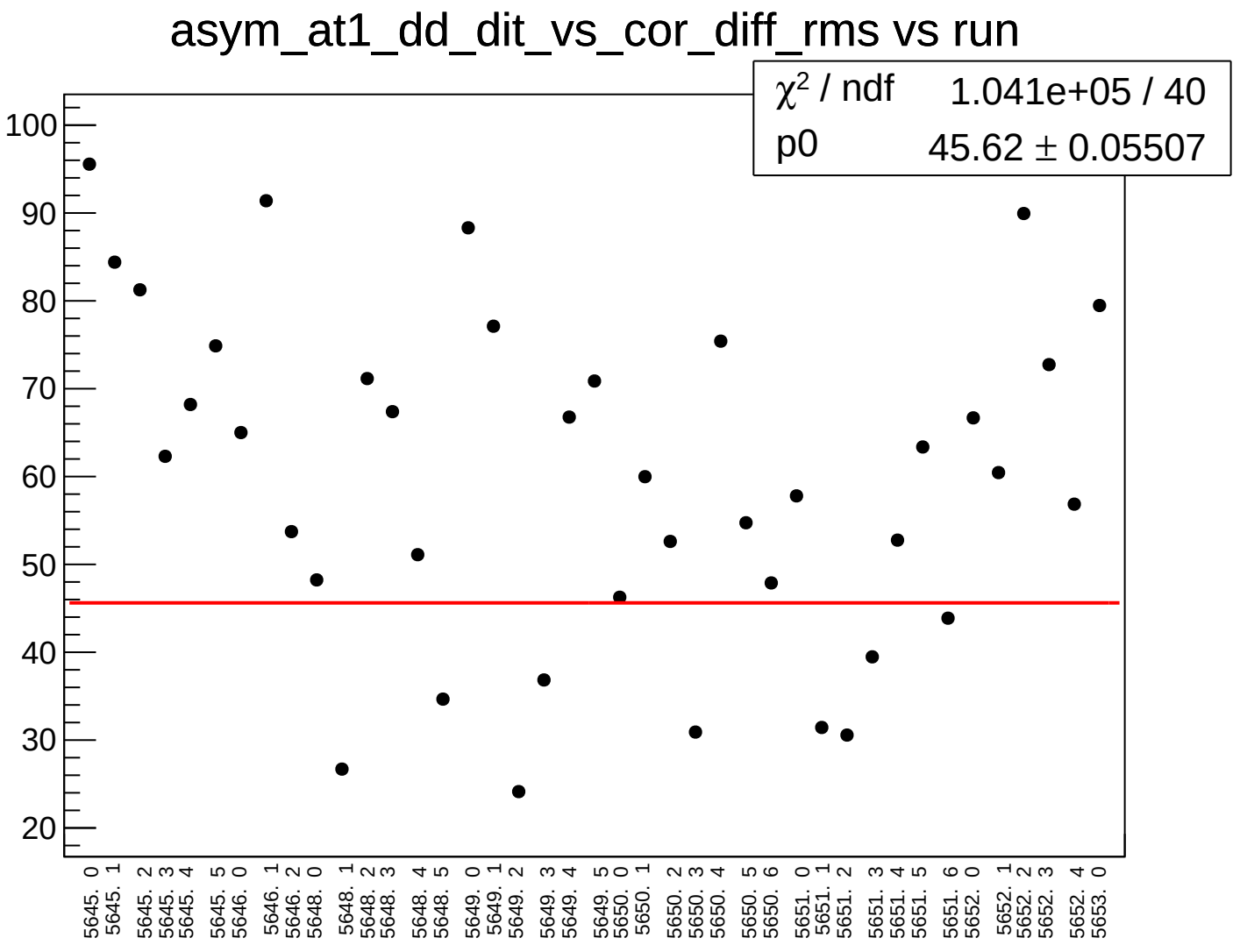

asym_at1_dd_rms vs run
χ² / ndf 163.2 / 40
p0 2381 ± 2.679
2550
2500
2450
2400
2350
2300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

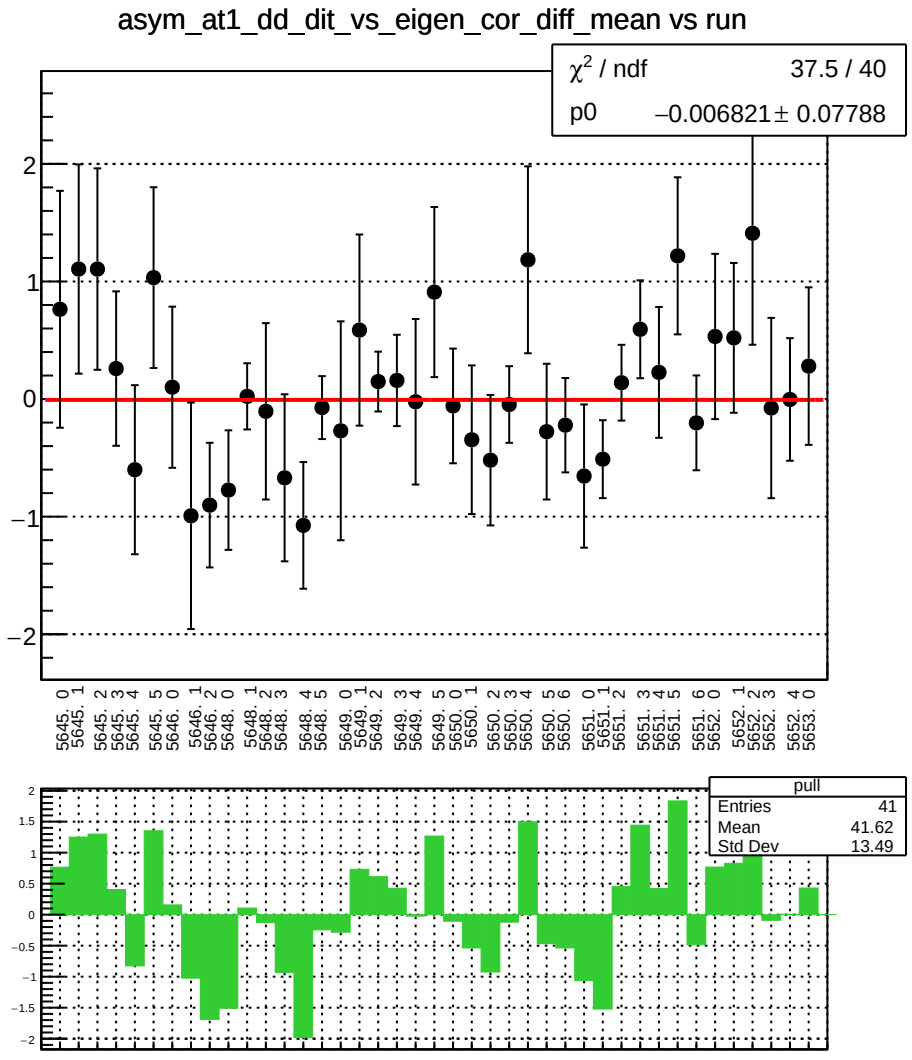

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.68 / 40
p0 −4.671e−13 ± 2.161e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 25.42
Std Dev 8.312
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.1315
Std Dev 0.6803
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

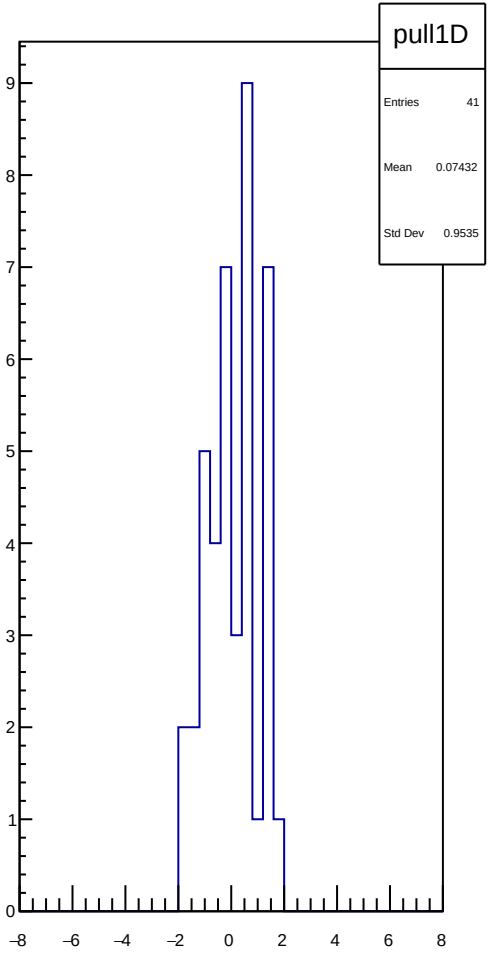

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.834e+05 / 40
p0 1.088e−10 ± 1.528e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

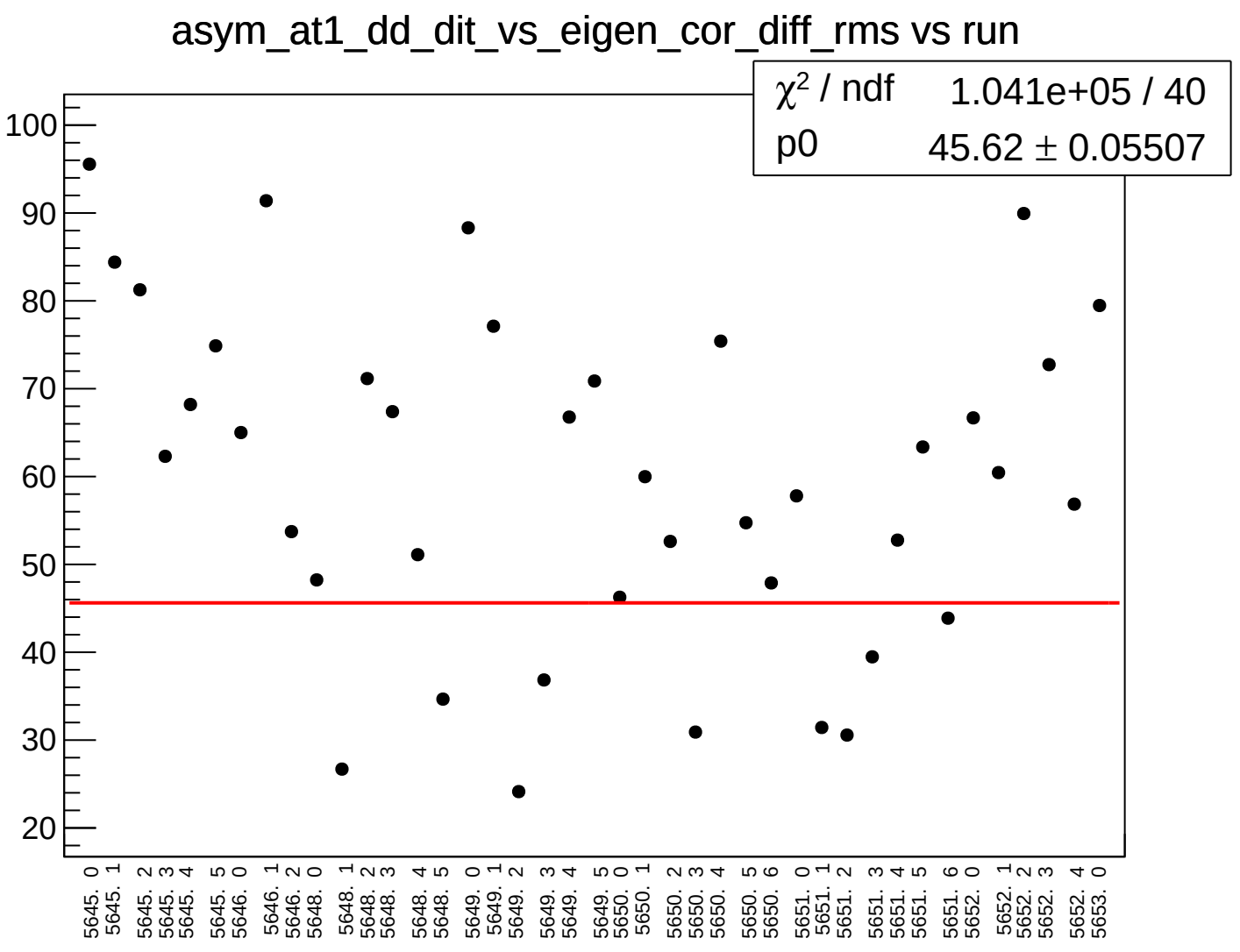

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.5 / 40
p0 −0.006821 ± 0.07788
pull
Entries 41
Mean 41.62
Std Dev 13.49

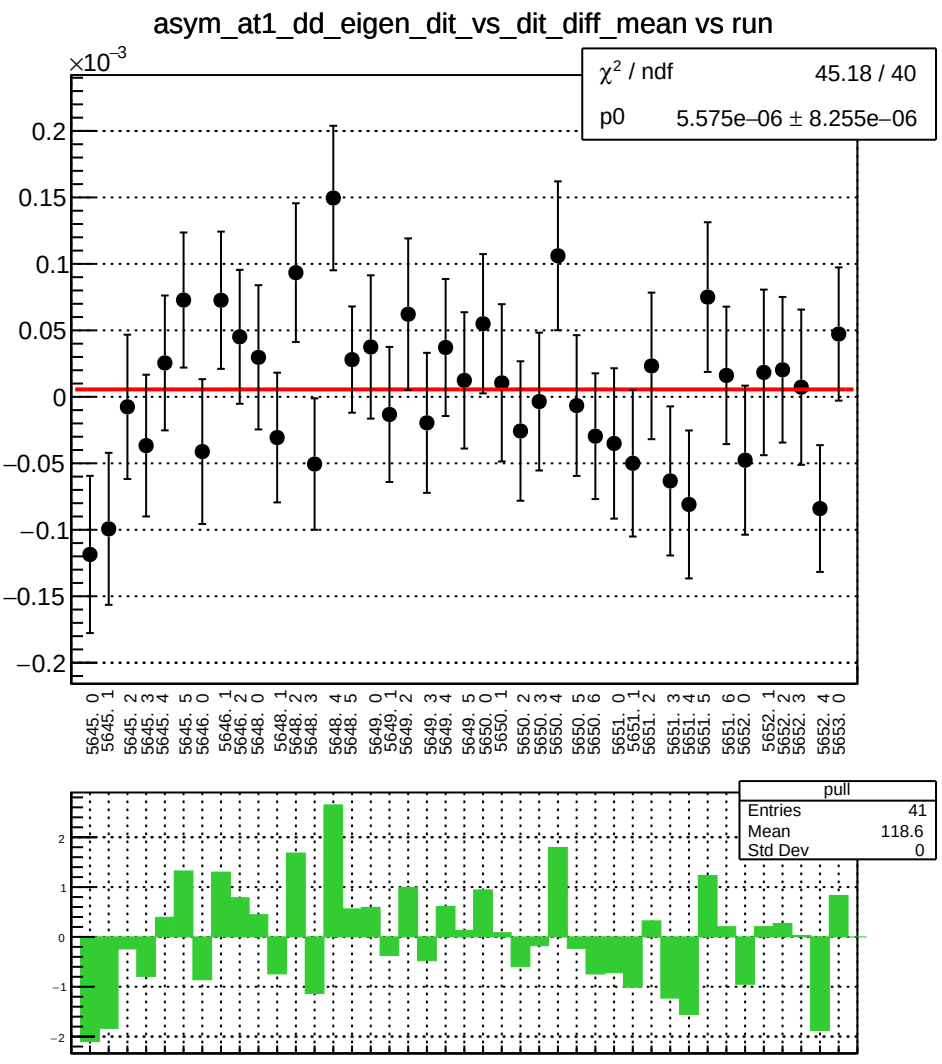

pull1D
Entries 41
Mean 0.07432
Std Dev 0.9535

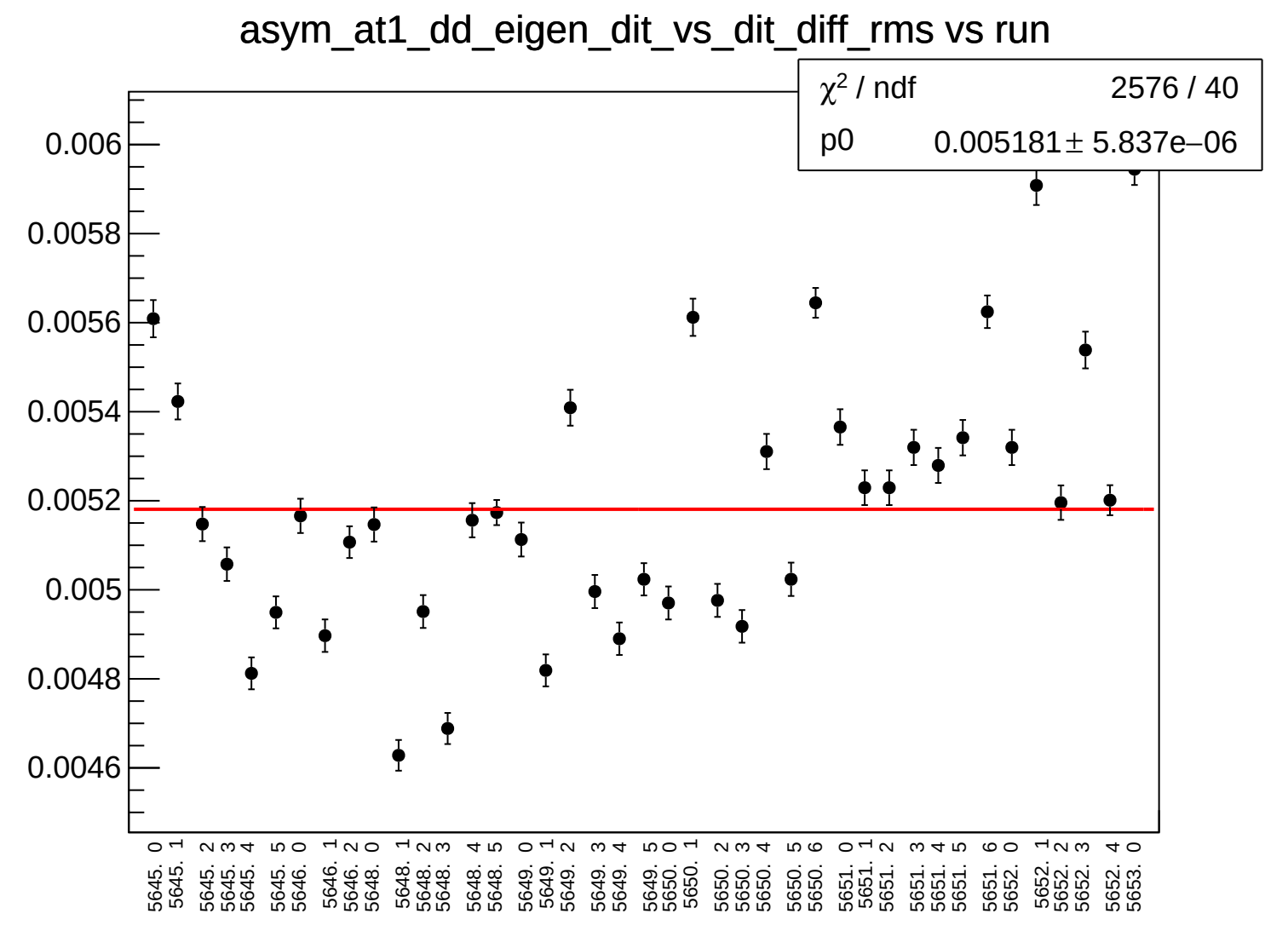

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 40
p0 45.62 ± 0.05507
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

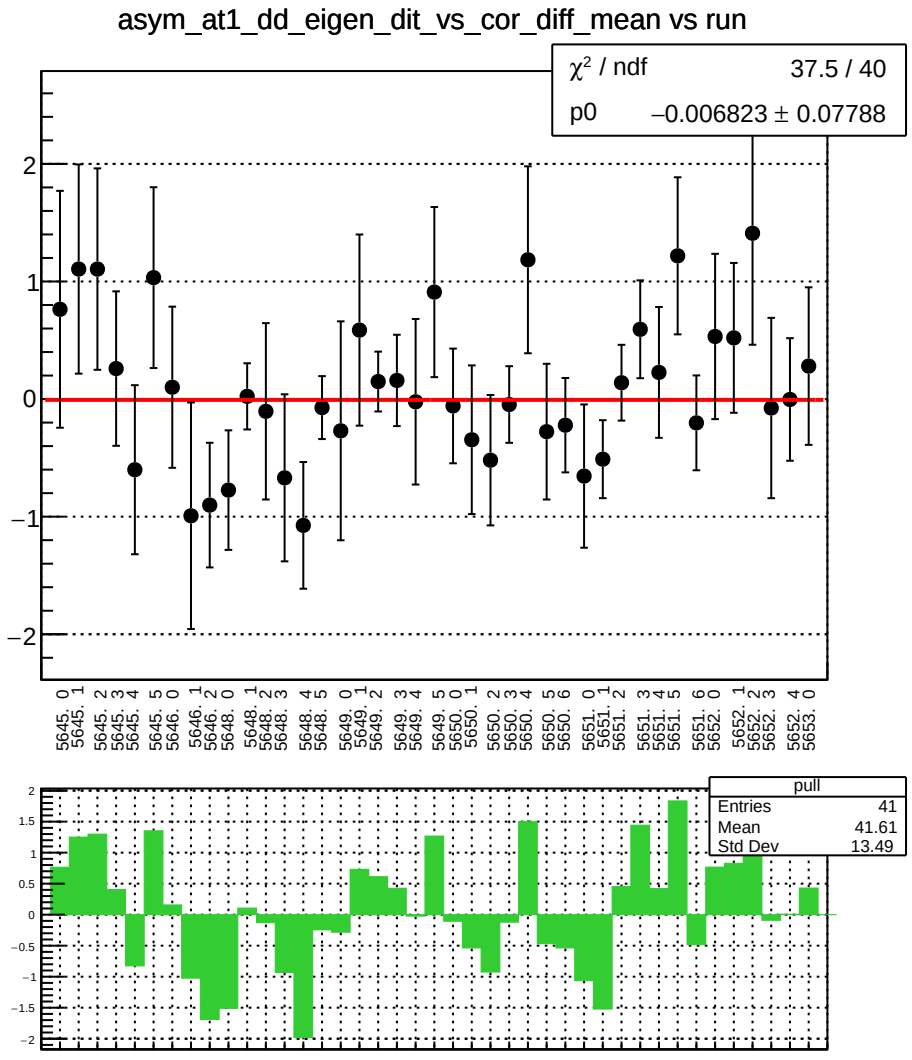

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.5 / 40
p0 −0.006821 ± 0.07788
pull
Entries 41
Mean 41.62
Std Dev 13.49

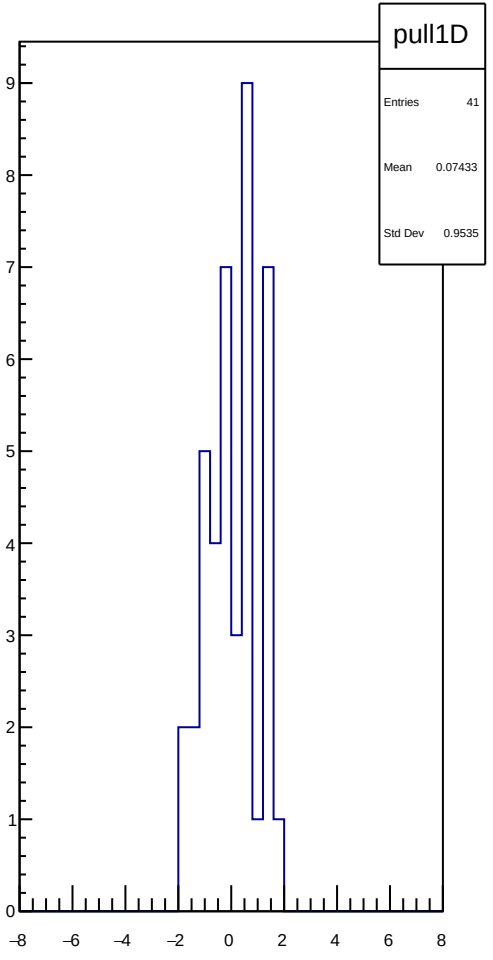

pull1D
Entries 41
Mean 0.07432
Std Dev 0.9535

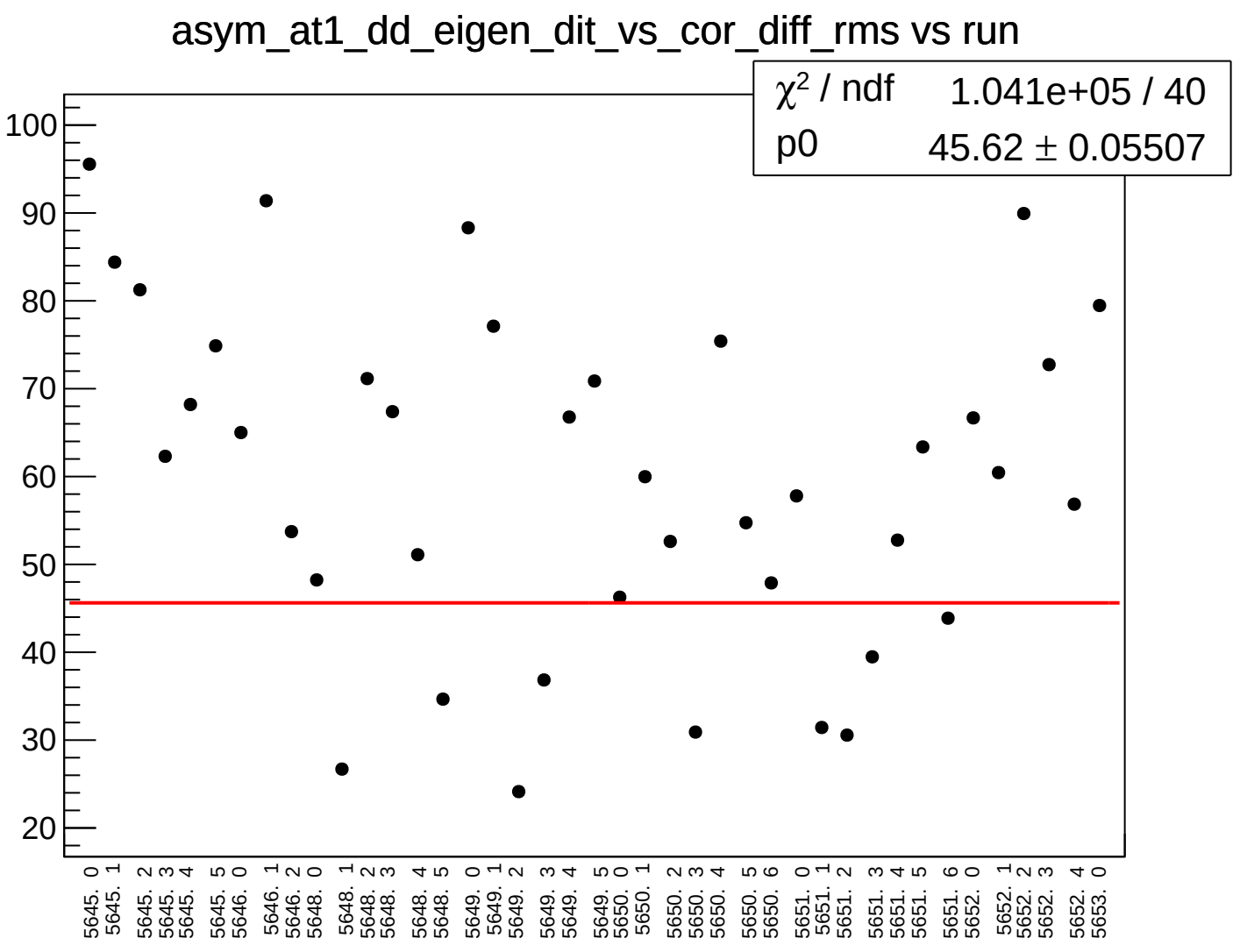

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 40
p0 45.62 ± 0.05507
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

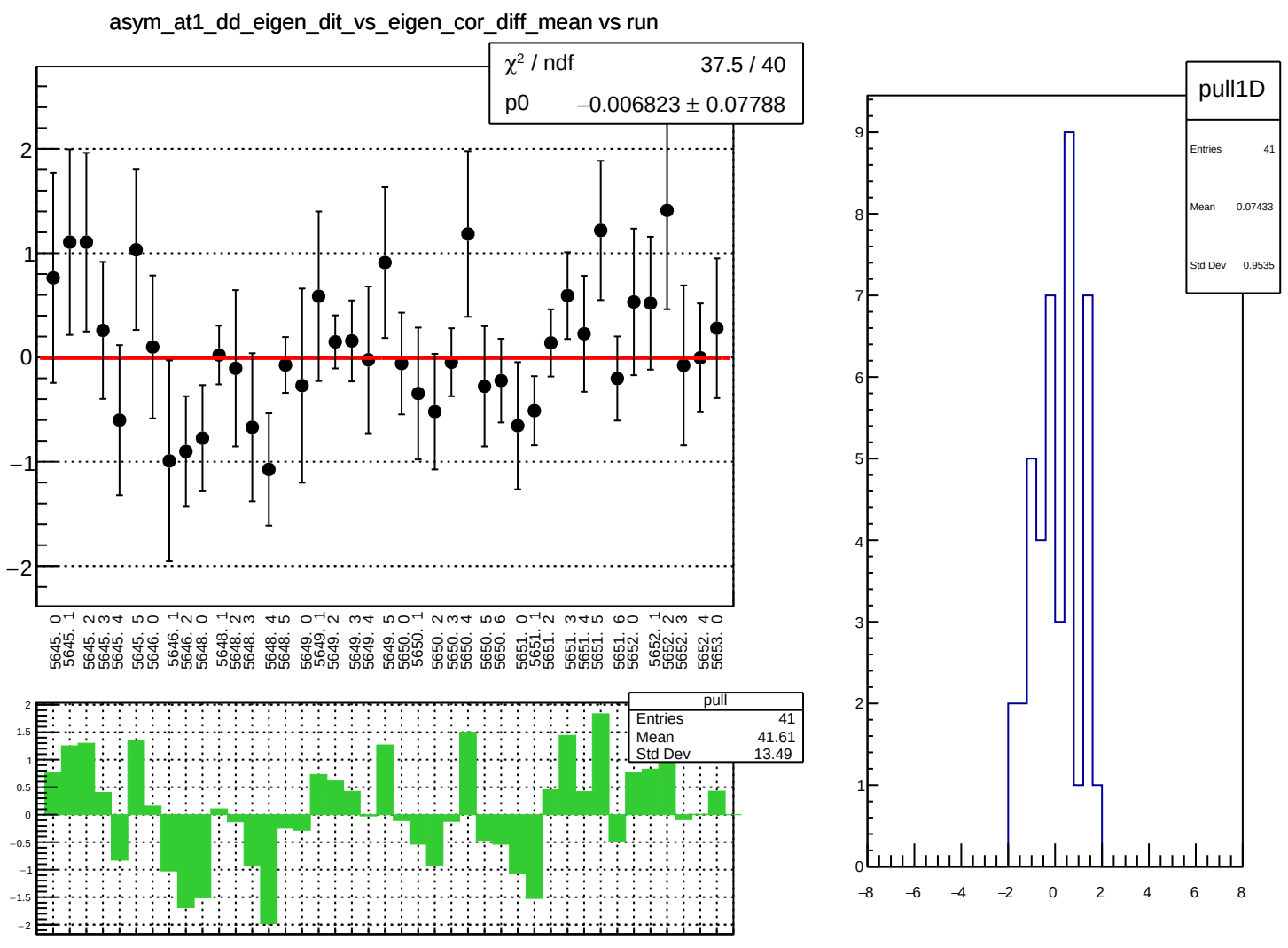

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.18 / 40
p0 5.575e−06 ± 8.255e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 118.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00599
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

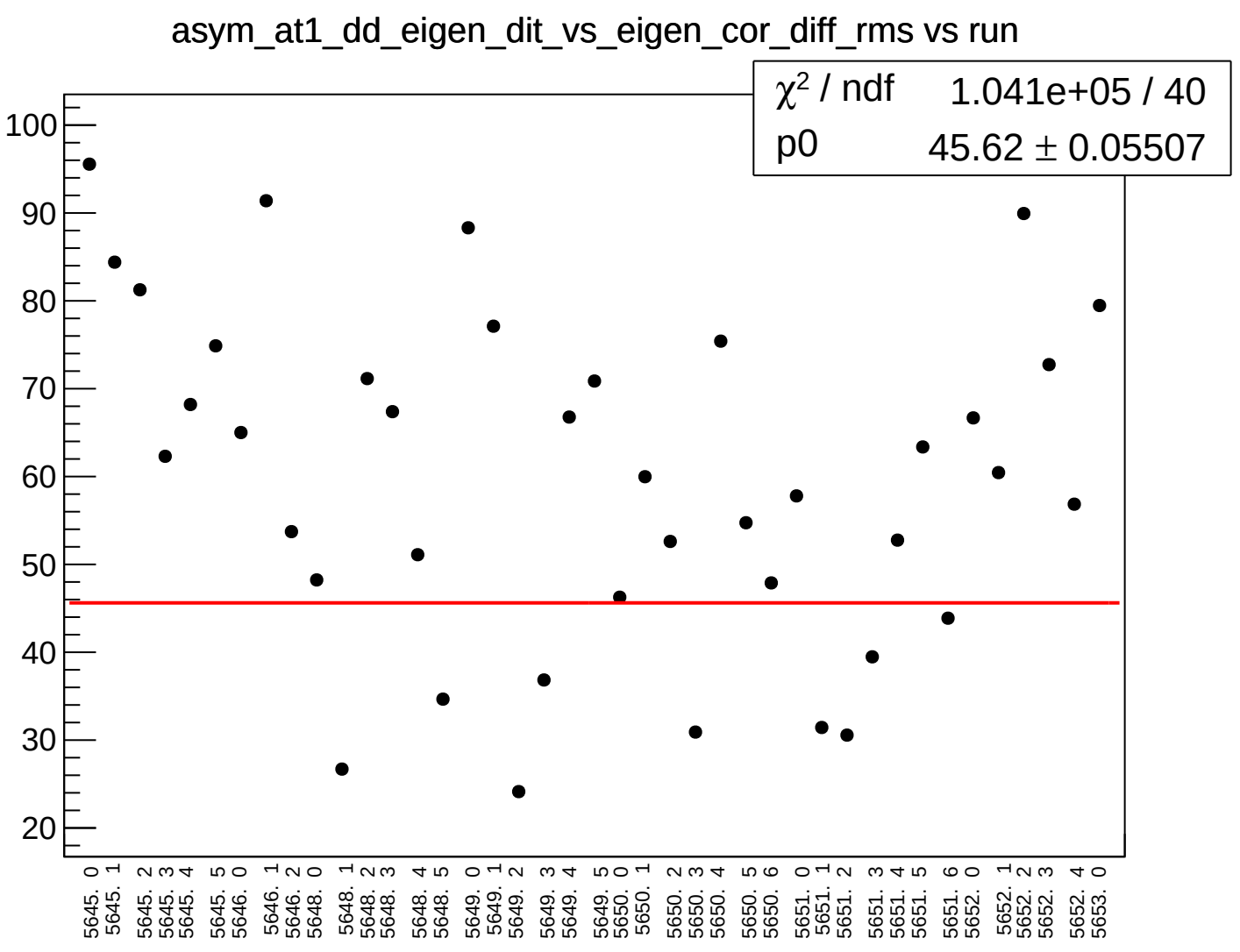

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2576 / 40
p0 0.005181 ± 5.837e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

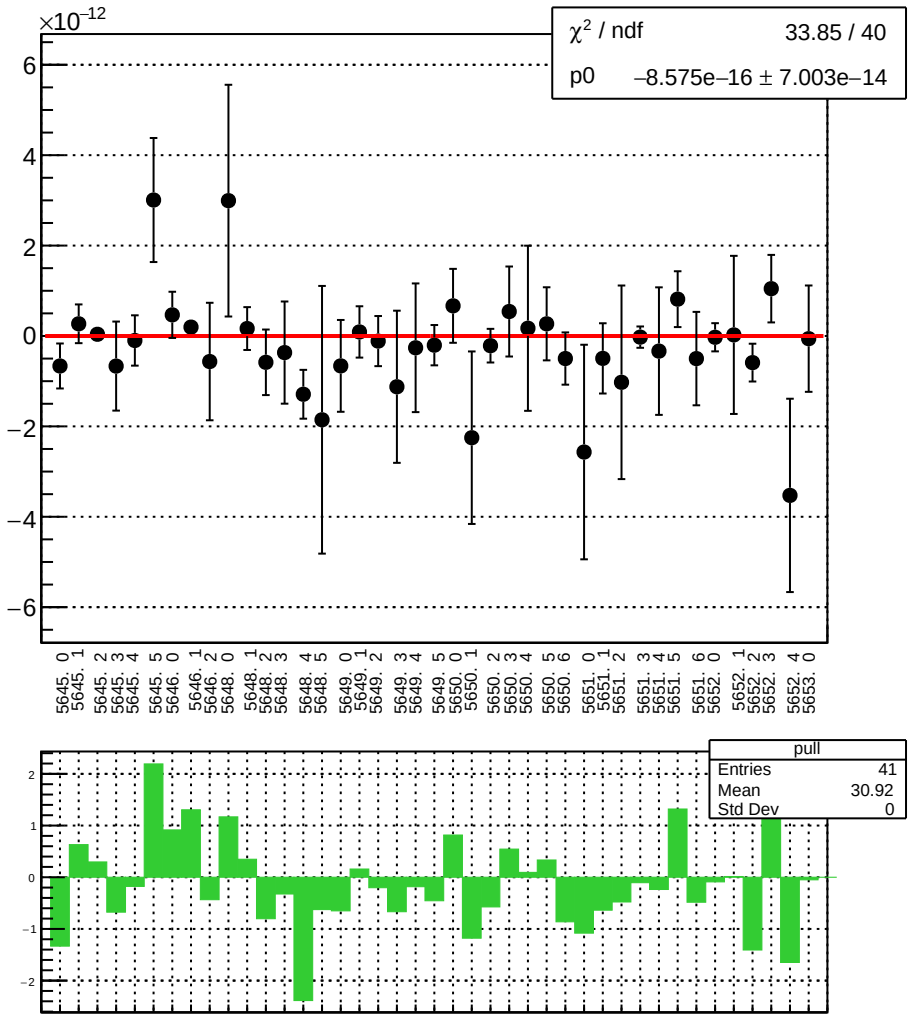

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.5 / 40
p0 −0.006823 ± 0.07788
pull
Entries 41
Mean 41.61
Std Dev 13.49

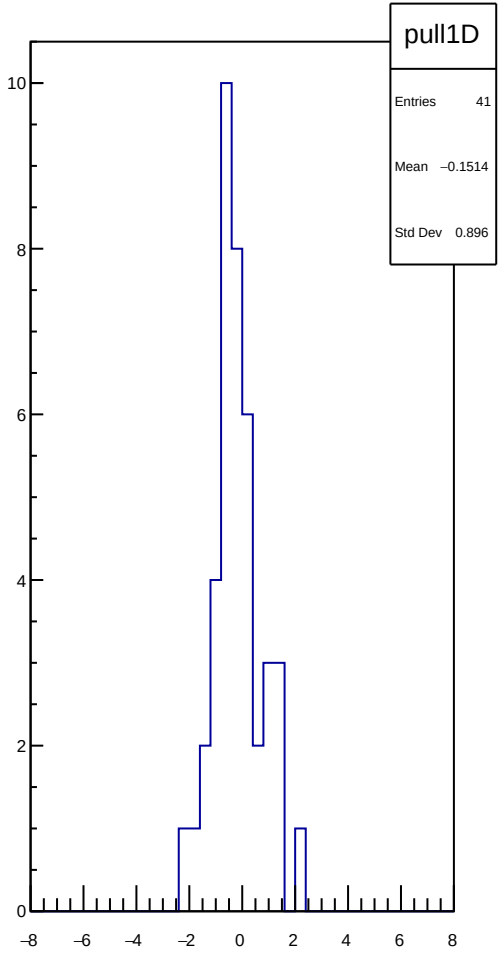

pull1D
Entries 41
Mean 0.07433
Std Dev 0.9535

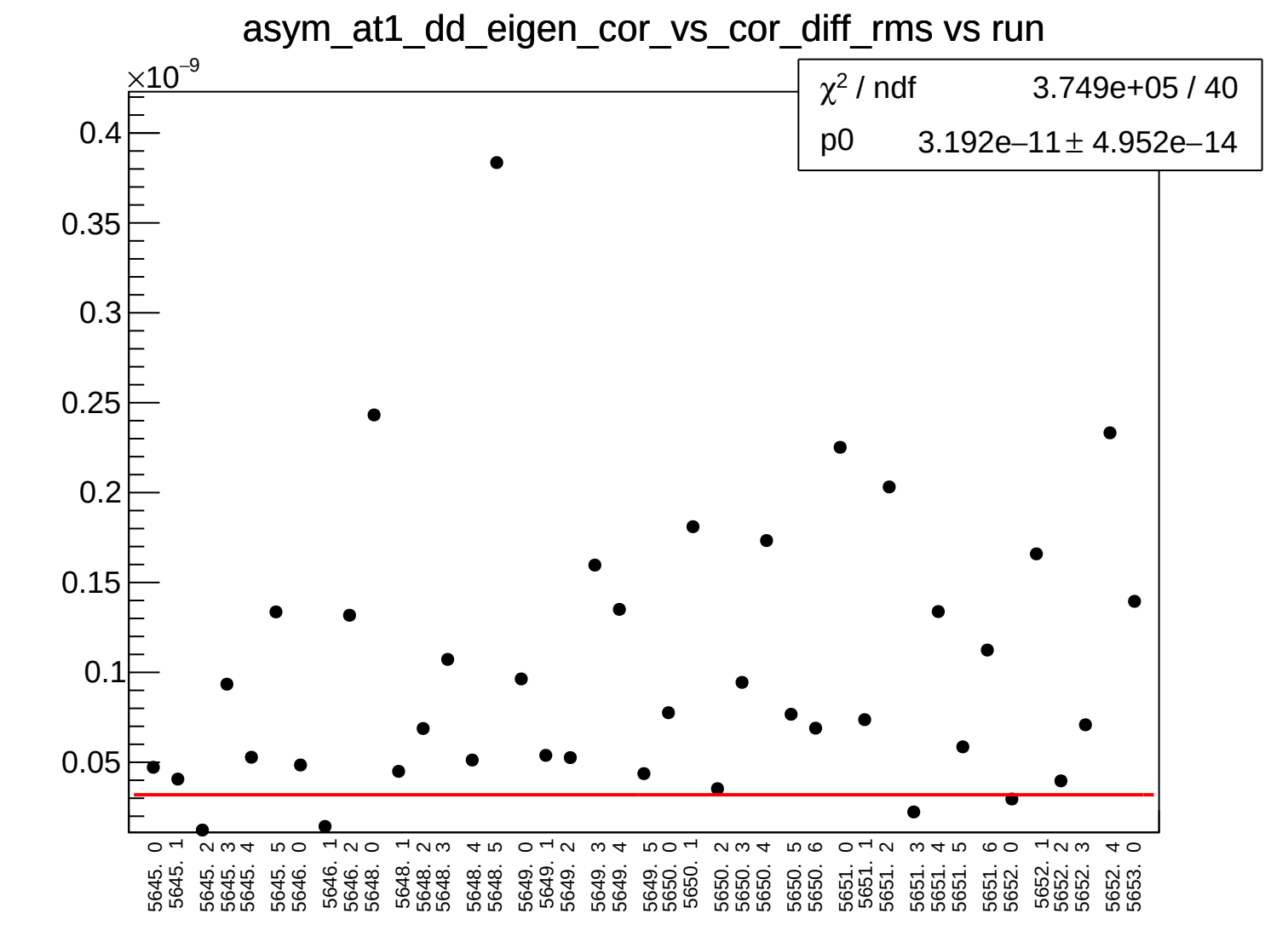

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 40
p0 45.62 ± 0.05507
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

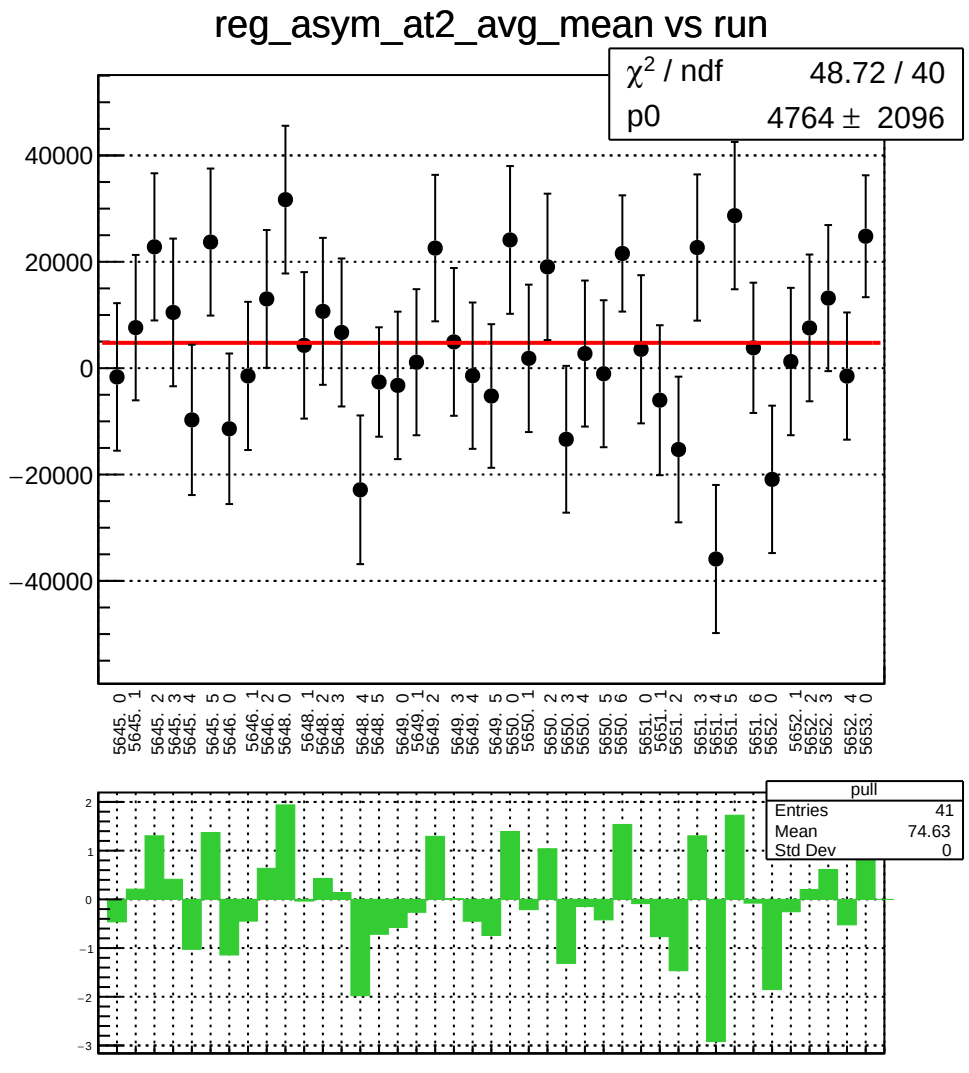

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.5 / 40
p0 −0.006823 ± 0.07788
pull
Entries 41
Mean 41.61
Std Dev 13.49
pull1D
Entries 41
Mean 0.07433
Std Dev 0.9535

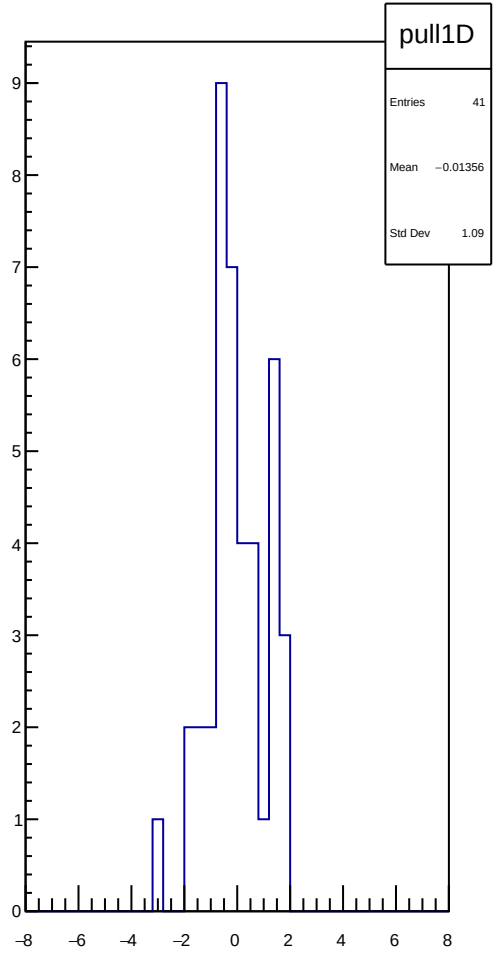

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.041e+05 / 40
p0 45.62 ± 0.05507
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

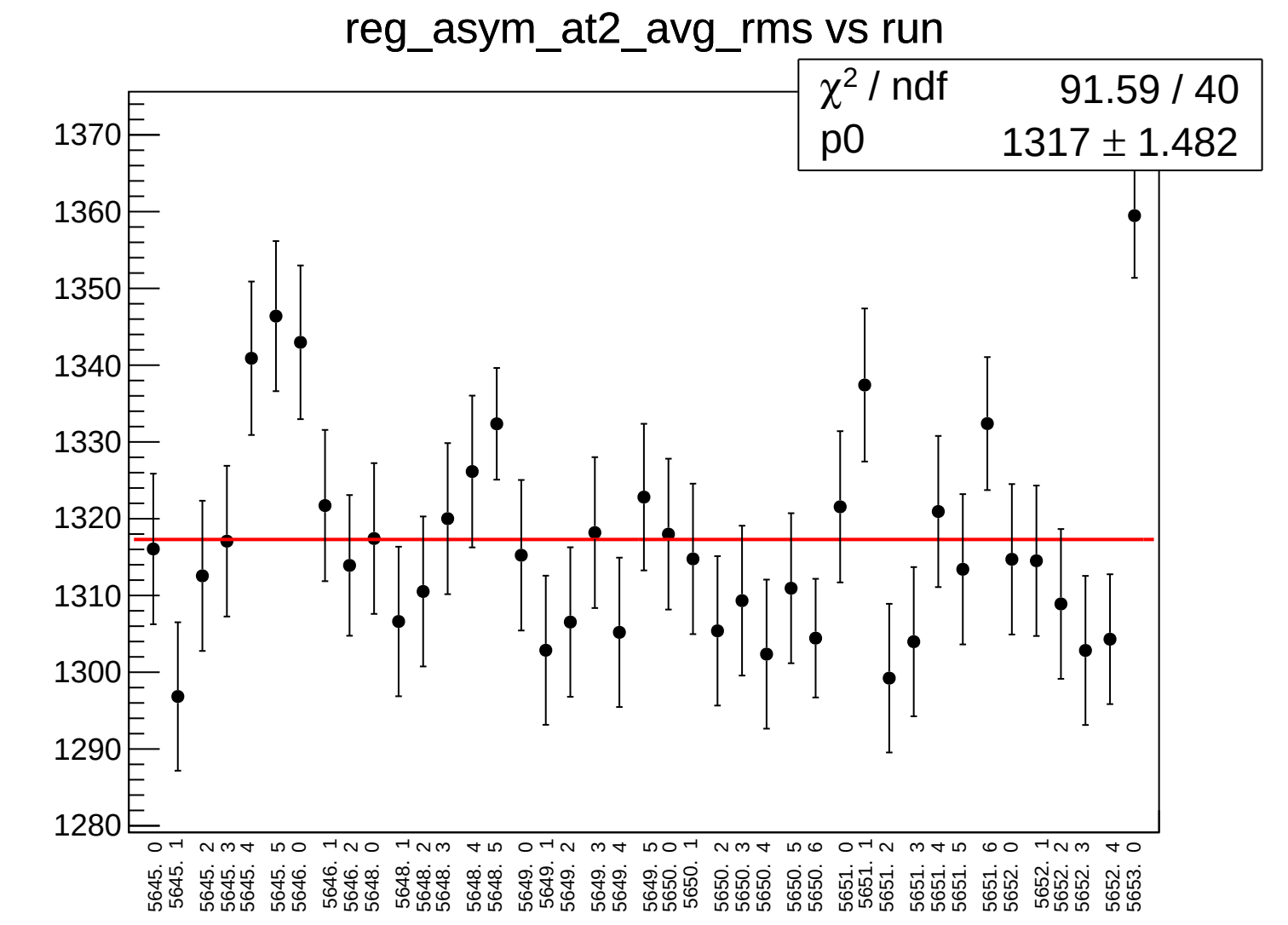

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.85 / 40
p0 −8.575e−16 ± 7.003e−14
pull
Entries 41
Mean 30.92
Std Dev 0

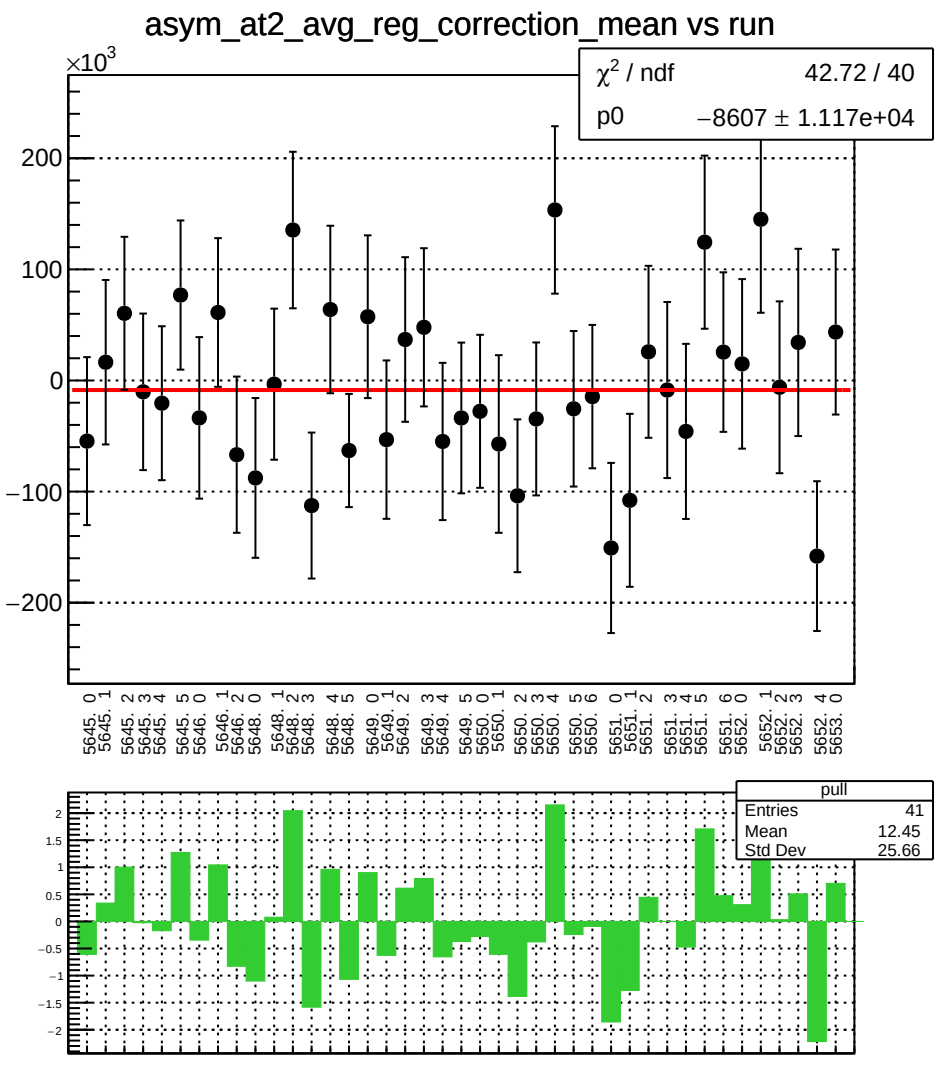

pull1D
Entries 41
Mean −0.1514
Std Dev 0.896

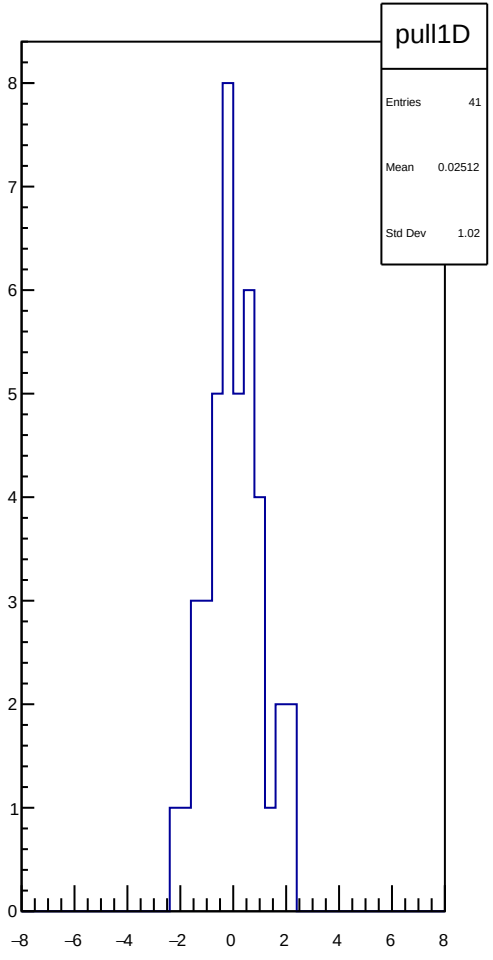

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.749e+05 / 40
p0 3.192e−11 ± 4.952e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

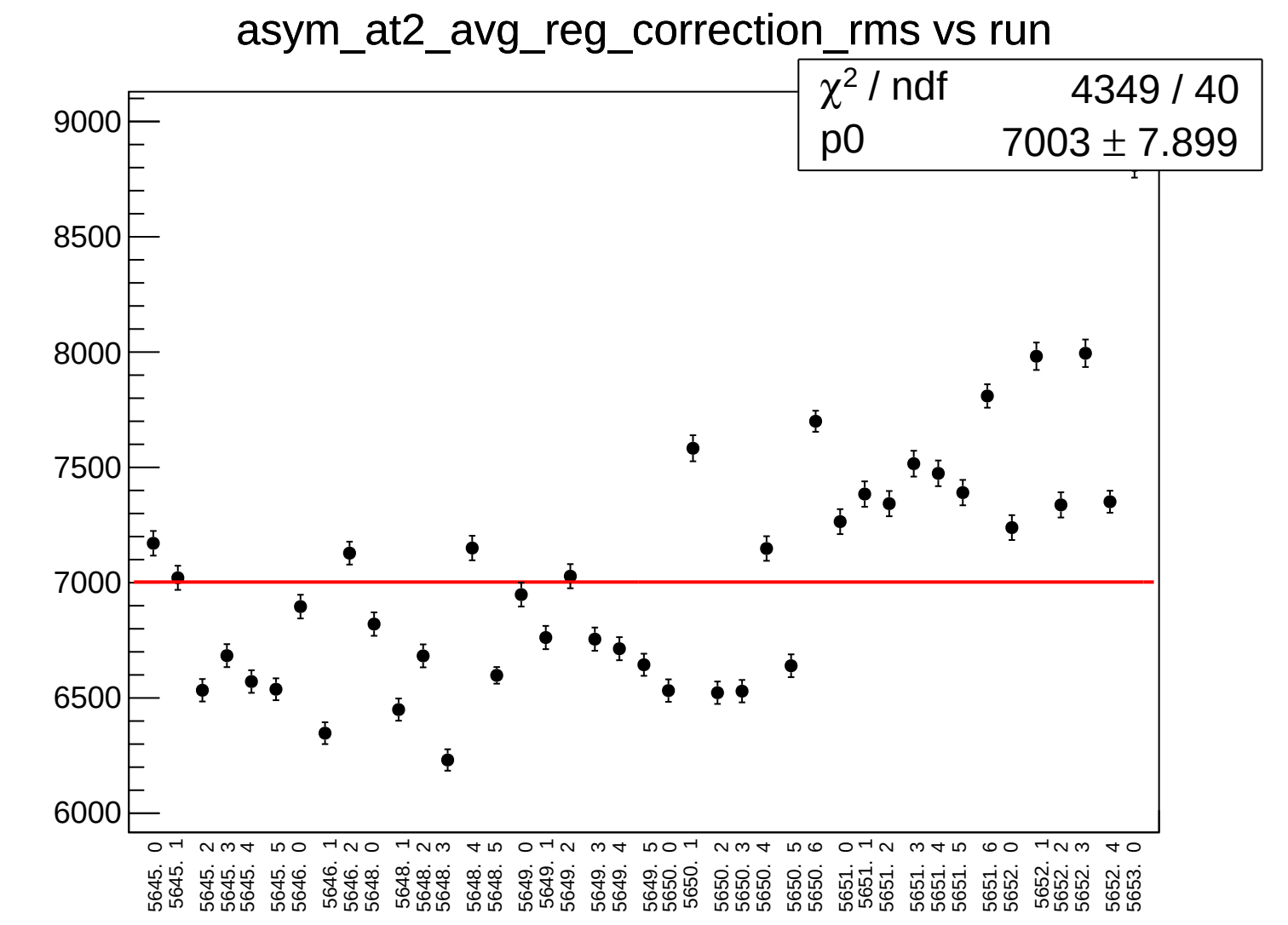

reg_asym_at2_avg_mean vs run
χ² / ndf 48.72 / 40
p0 4764 ± 2096
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 74.63
Std Dev 0
2
1
0
−1
−2
−3

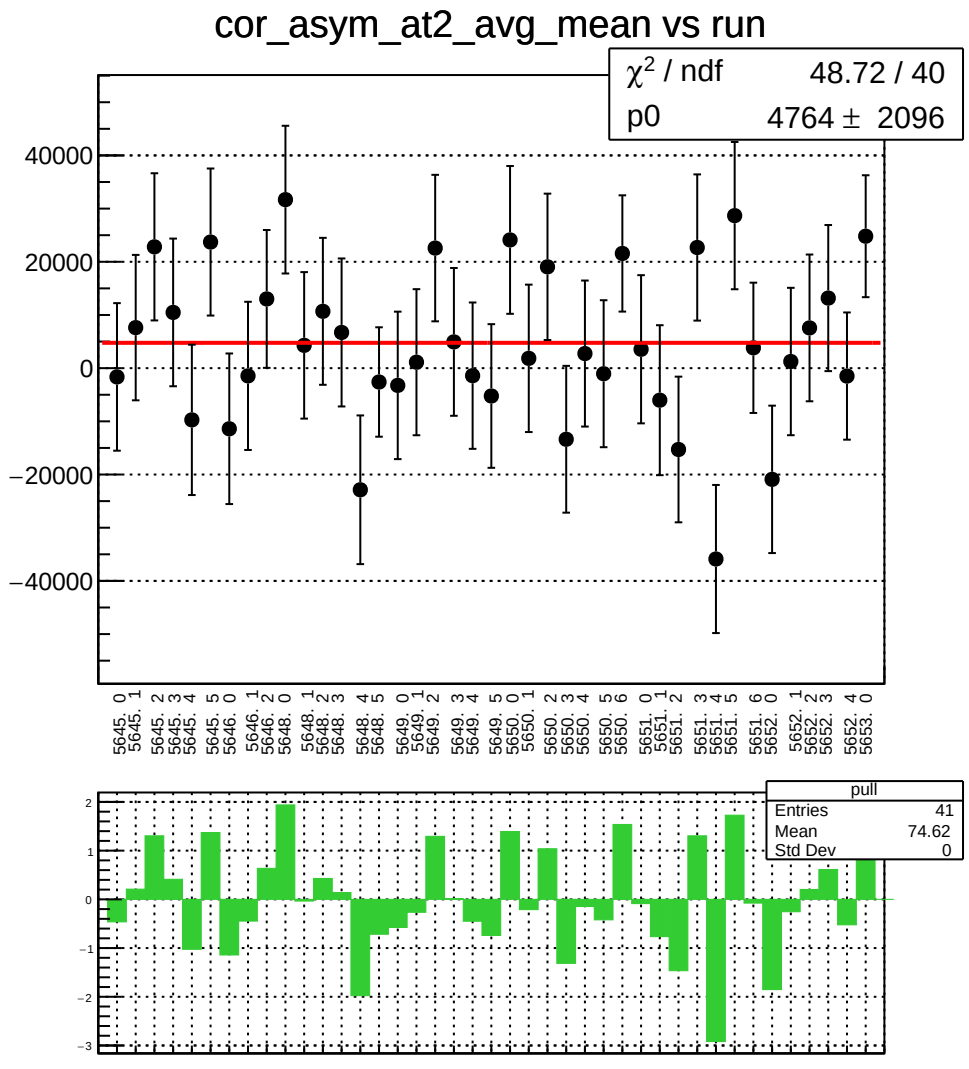

pull1D
Entries 41
Mean −0.01356
Std Dev 1.09
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

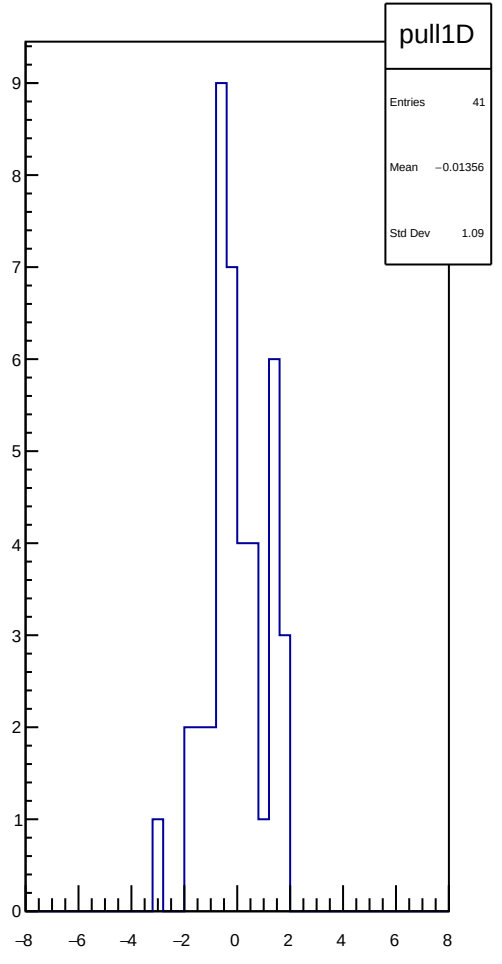

reg_asym_at2_avg_rms vs run
χ^2 / ndf 91.59 / 40
p0 1317 ± 1.482
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

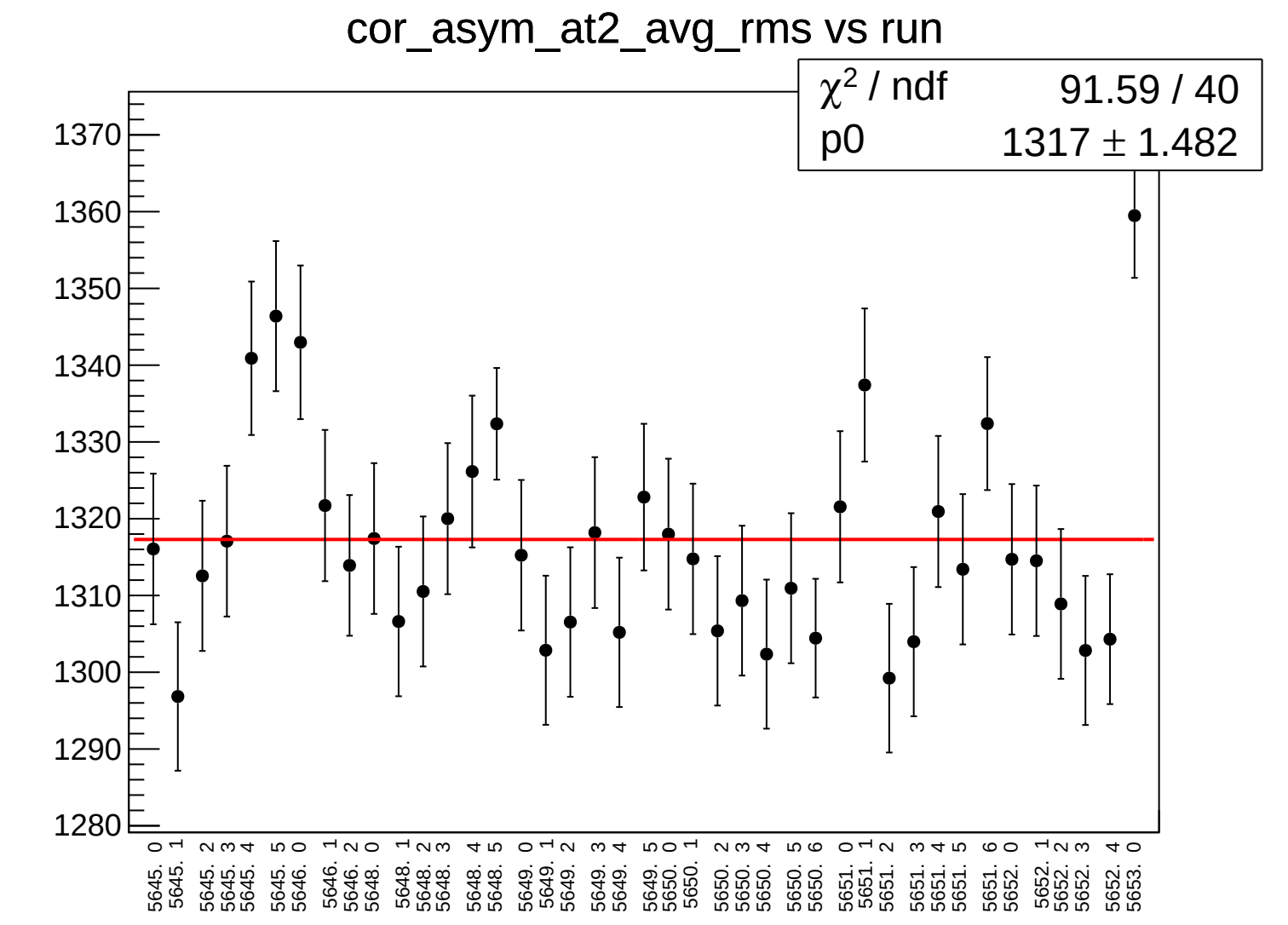

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 42.72 / 40
p0 −8607 ± 1.117e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.45
Std Dev 25.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02512
Std Dev 1.02
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 4349 / 40
p0 7003 ± 7.899
9000
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_at2_avg_mean vs run
χ² / ndf 48.72 / 40
p0 4764 ± 2096
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 74.62
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01356
Std Dev 1.09
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 91.59 / 40
p0 1317 ± 1.482
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
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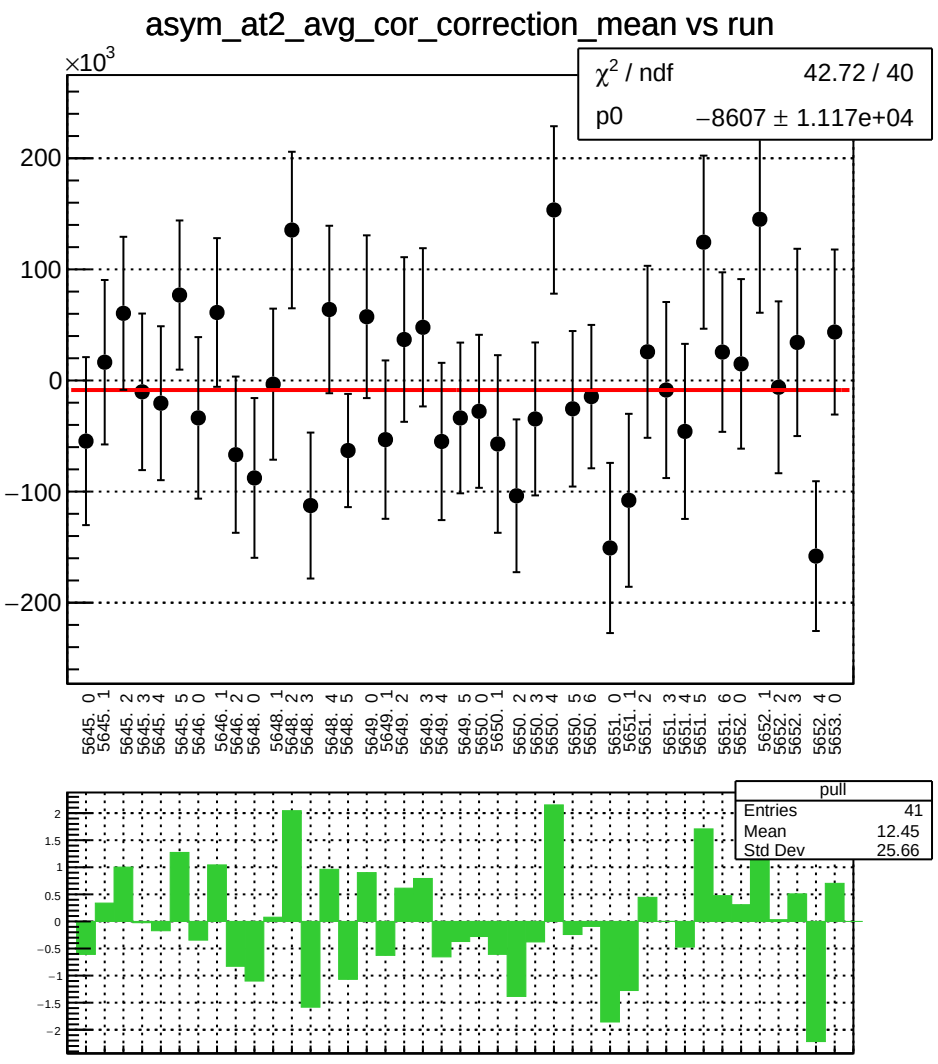
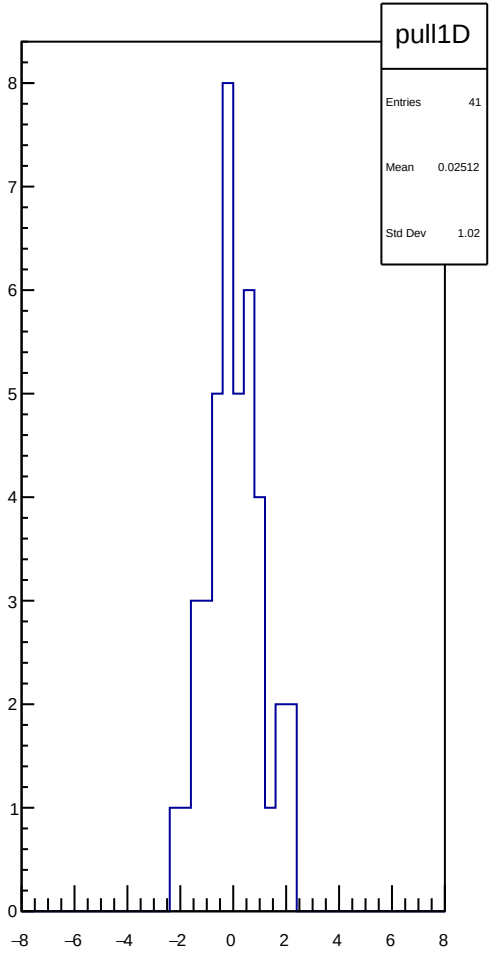
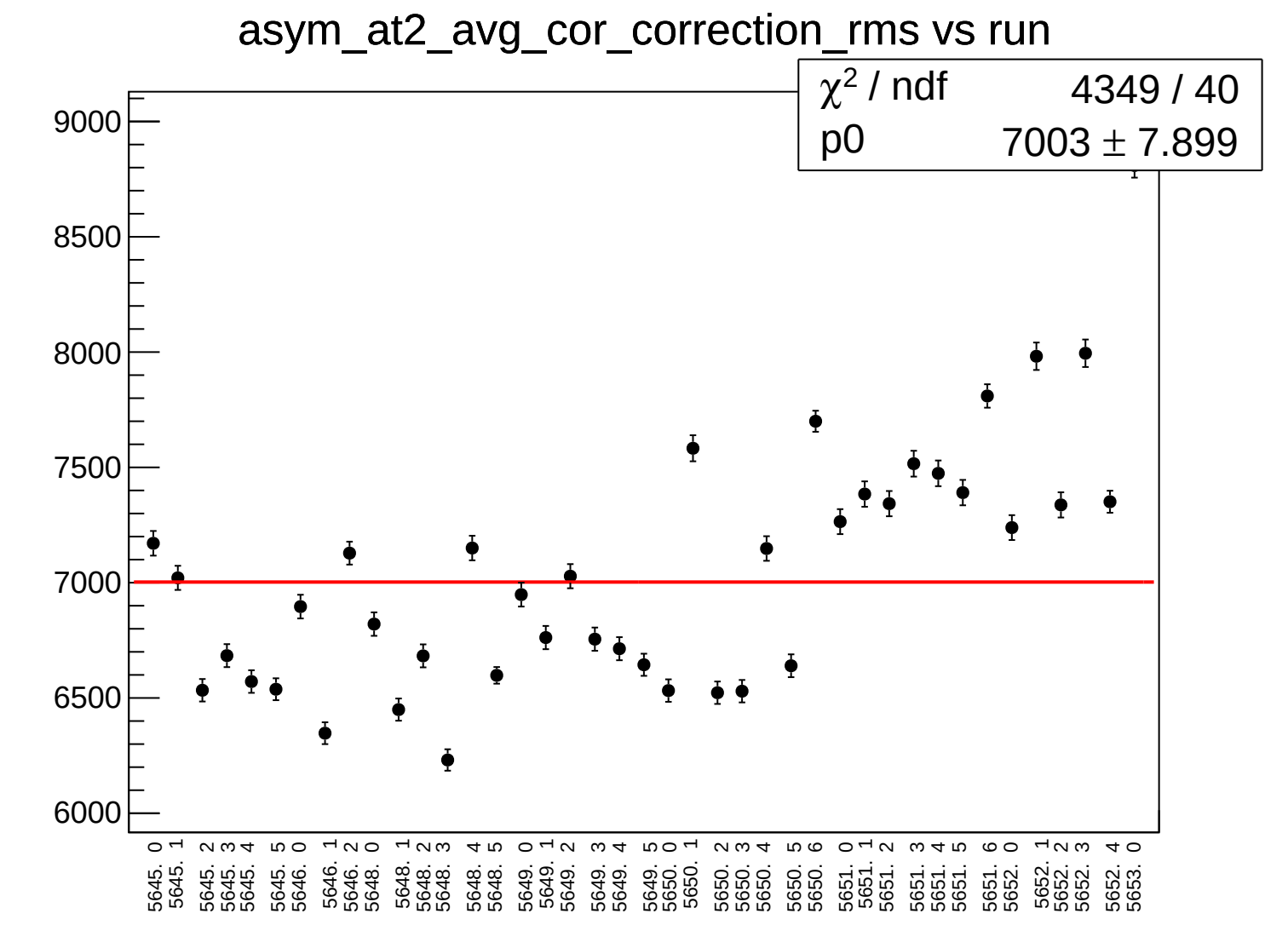
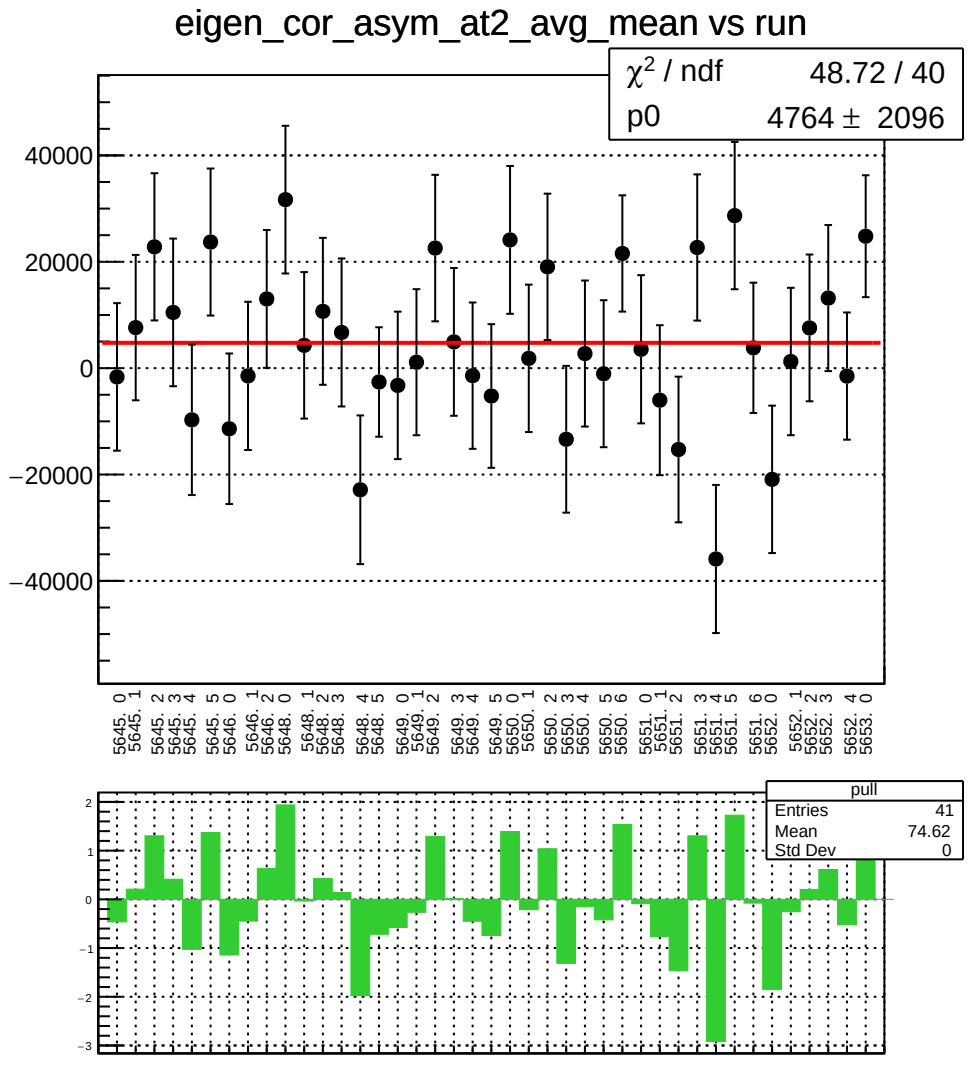
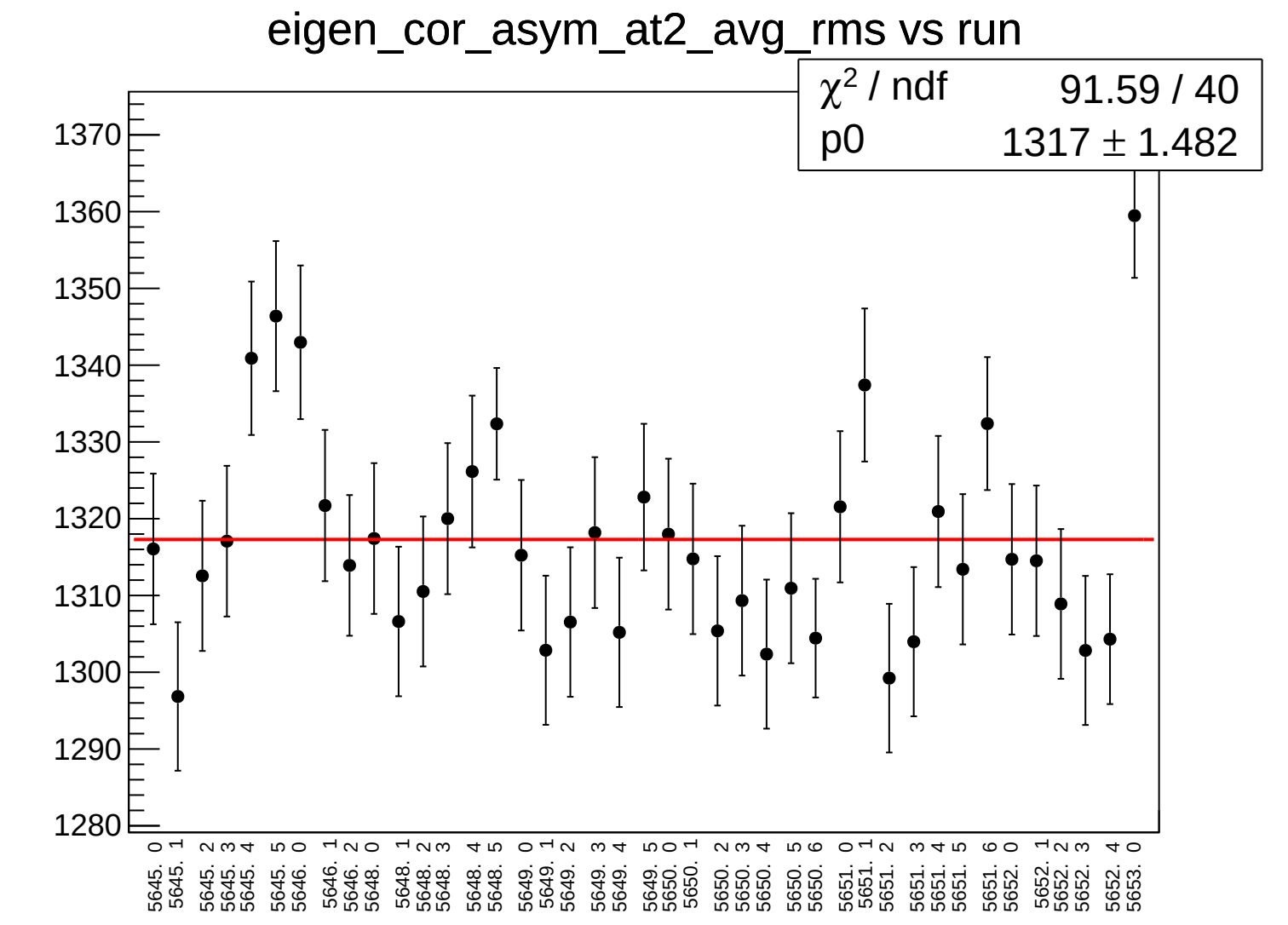
5652. 2
5652. 3
5652. 4
5653. 0

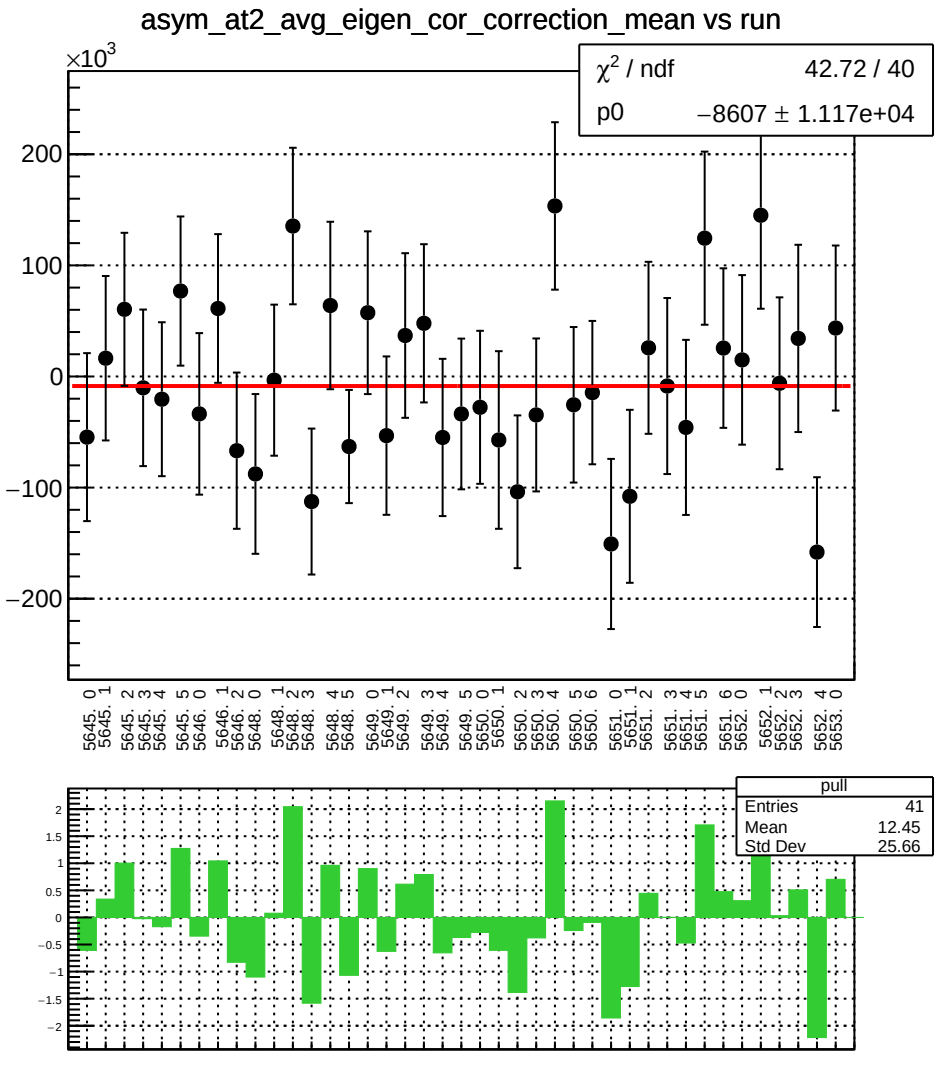

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 42.72 / 40
p0 −8607 ± 1.117e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.45
Std Dev 25.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

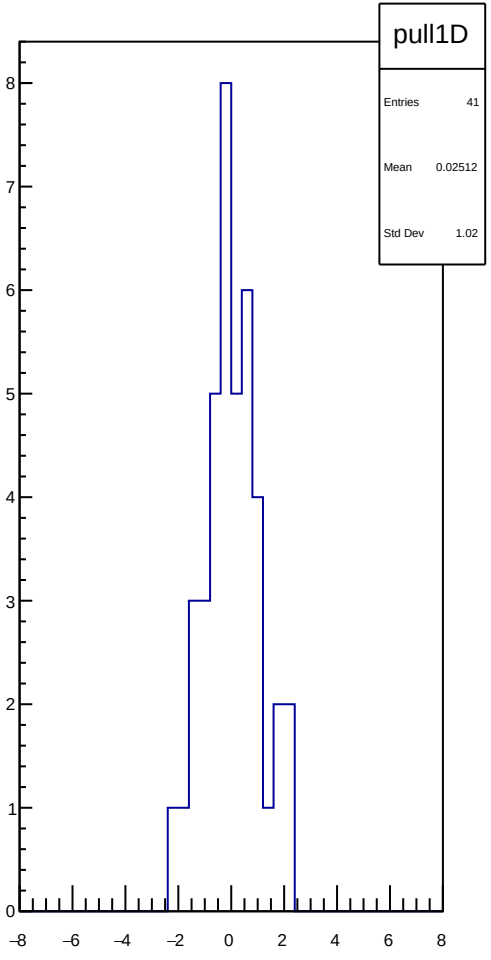

pull1D
Entries 41
Mean 0.02512
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

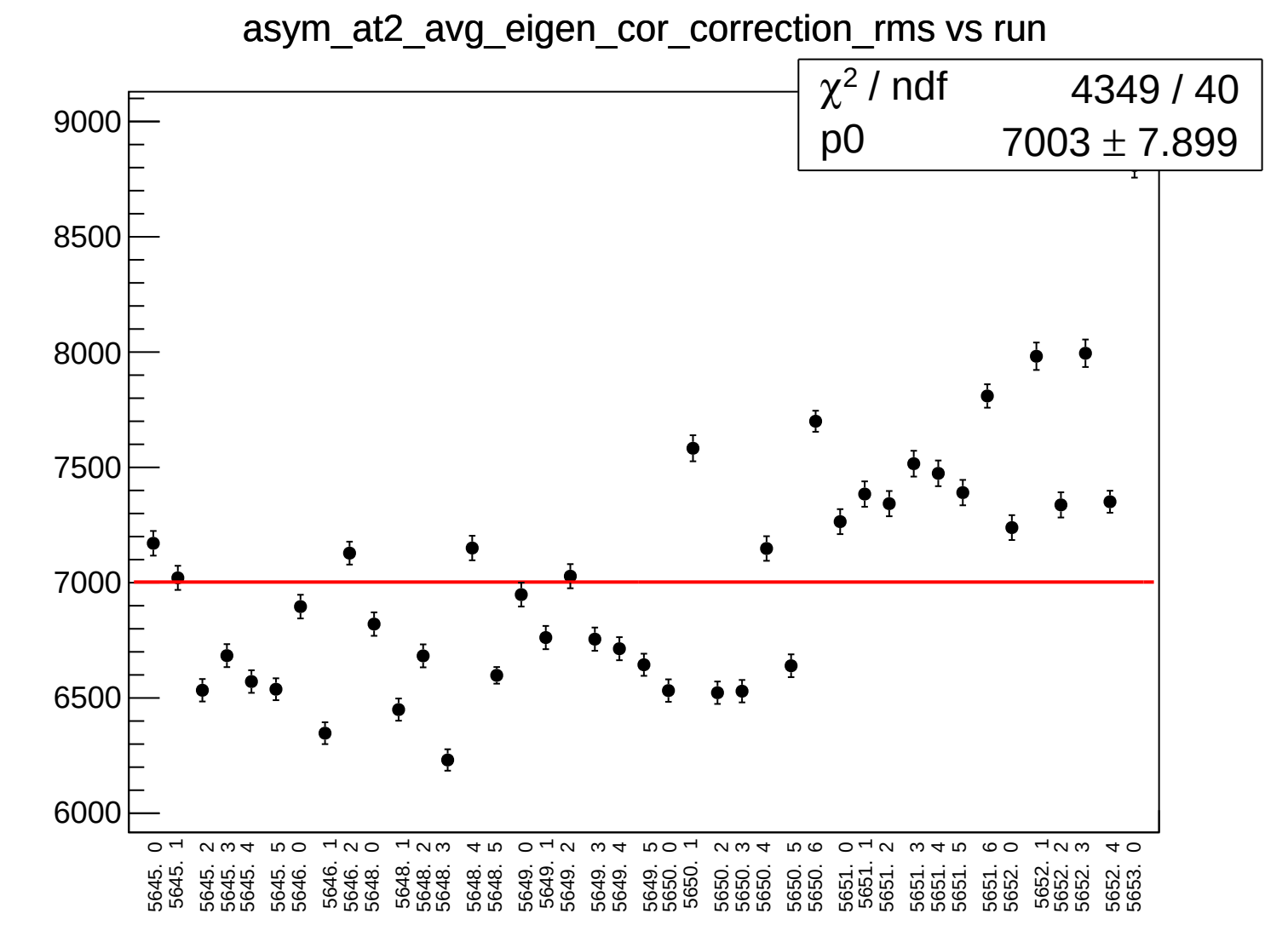

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4349 / 40
p0 7003 ± 7.899
9000
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 48.72 / 40
p0 4764 ± 2096
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 74.62
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.01356
Std Dev 1.09
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 91.59 / 40
p0 1317 ± 1.482
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 42.72 / 40
p0 −8607 ± 1.117e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.45
Std Dev 25.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02512
Std Dev 1.02
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 4349 / 40
p0 7003 ± 7.899
9000
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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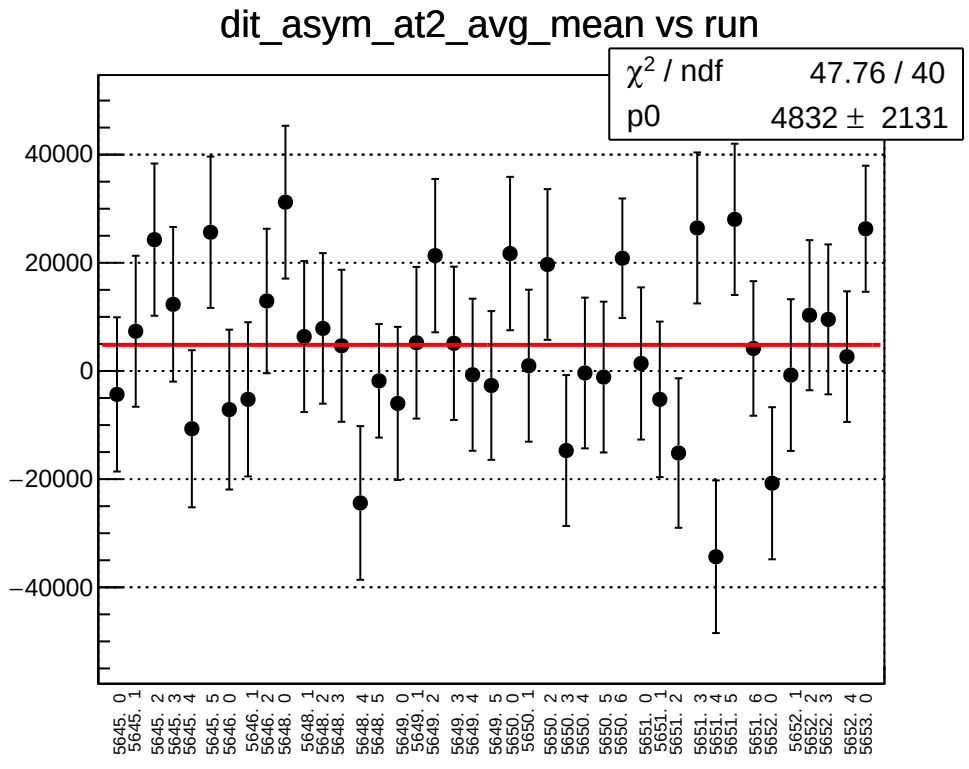
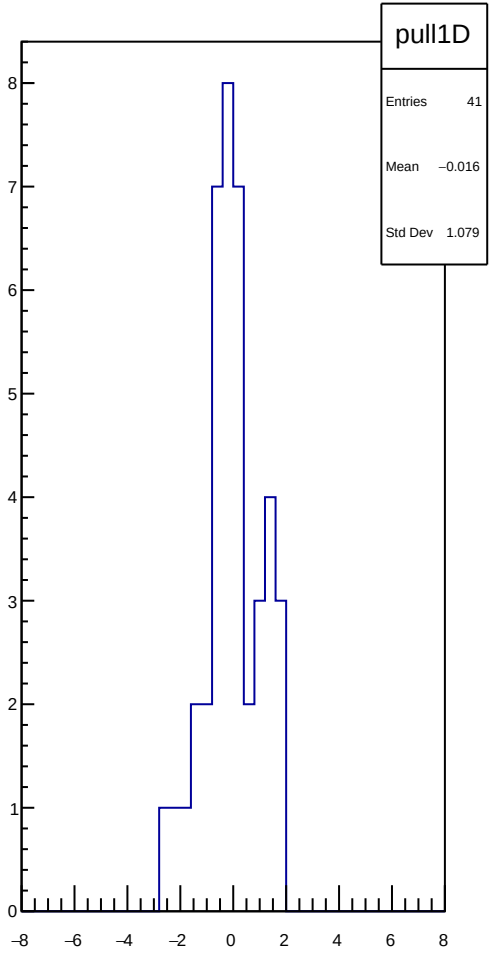
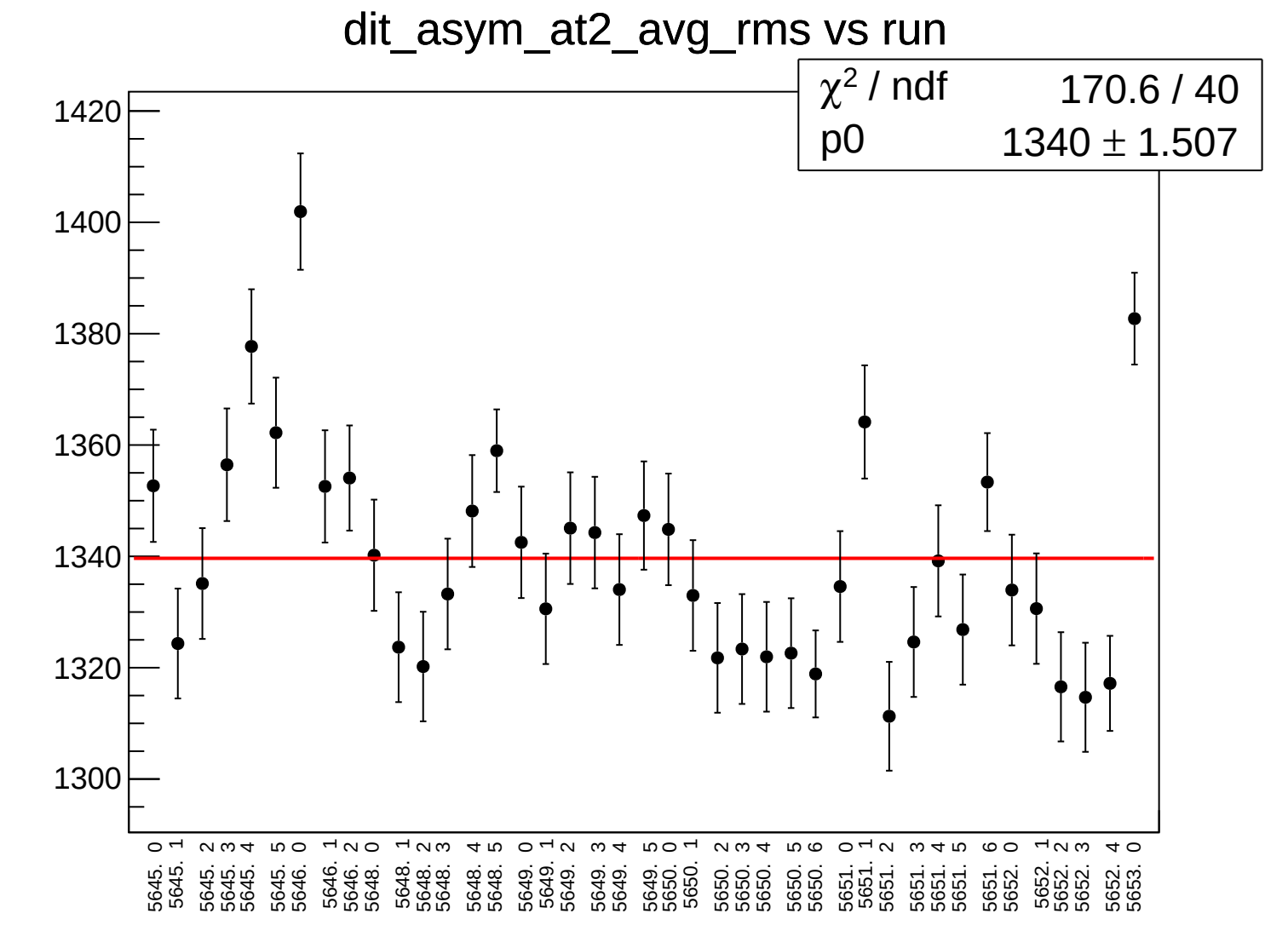
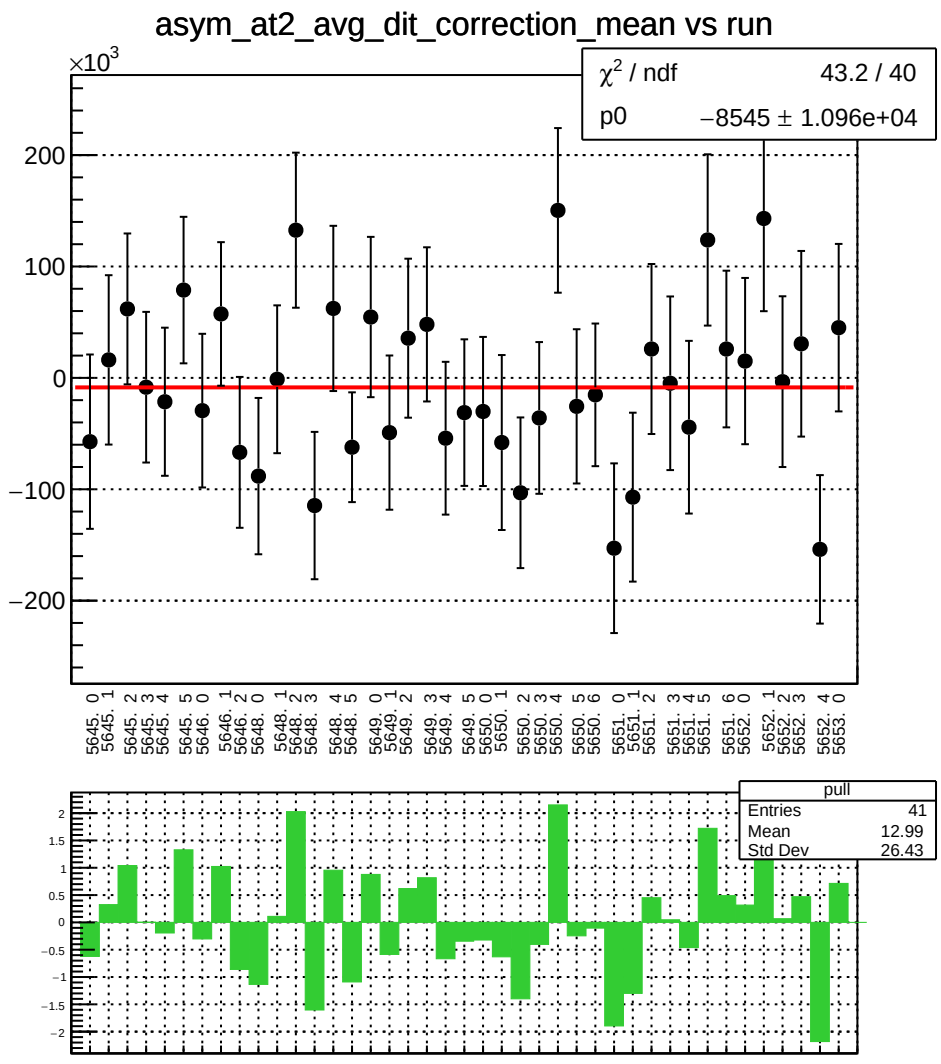
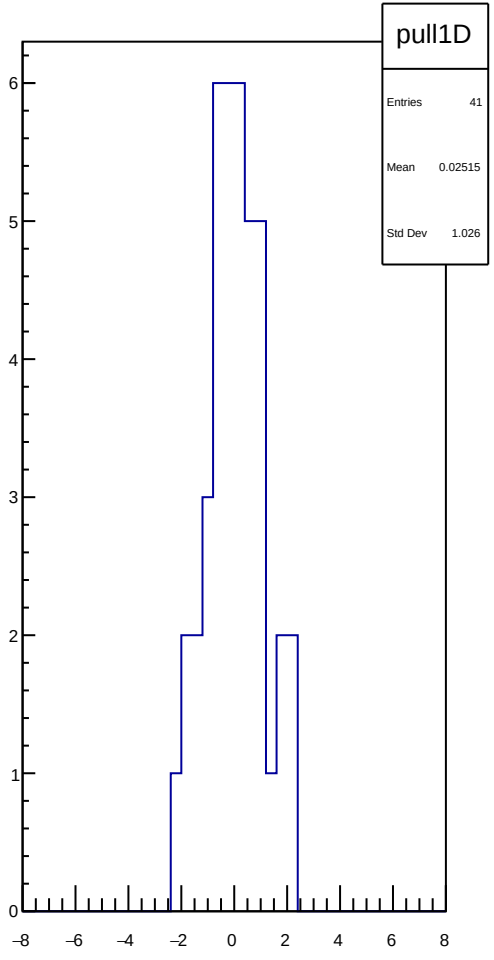
5652. 4
5653. 0

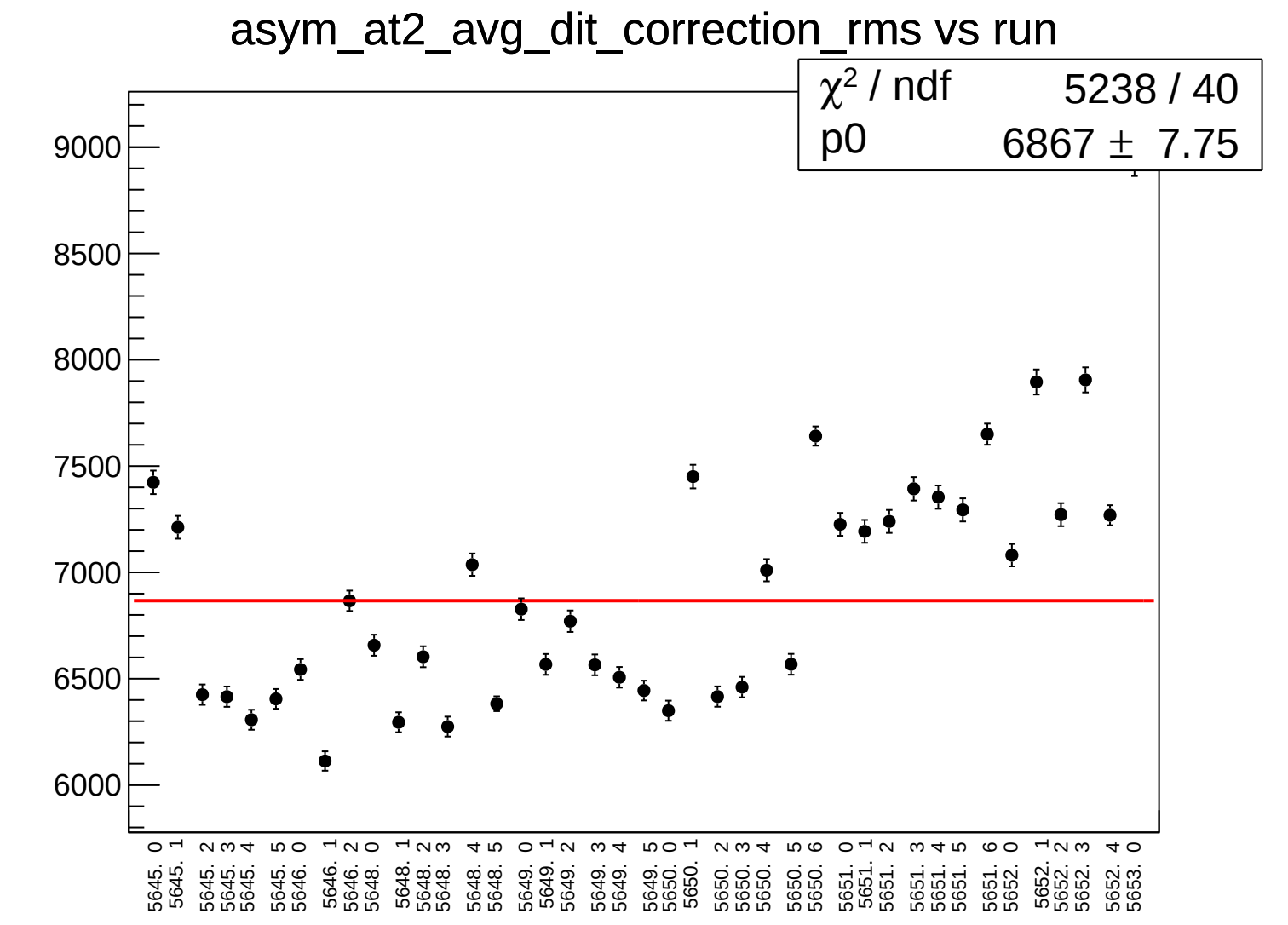

dit_asym_at2_avg_mean vs run
χ² / ndf 47.76 / 40
p0 4832 ± 2131
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 55.2
Std Dev 0
2
1
0
−1
−2
−3

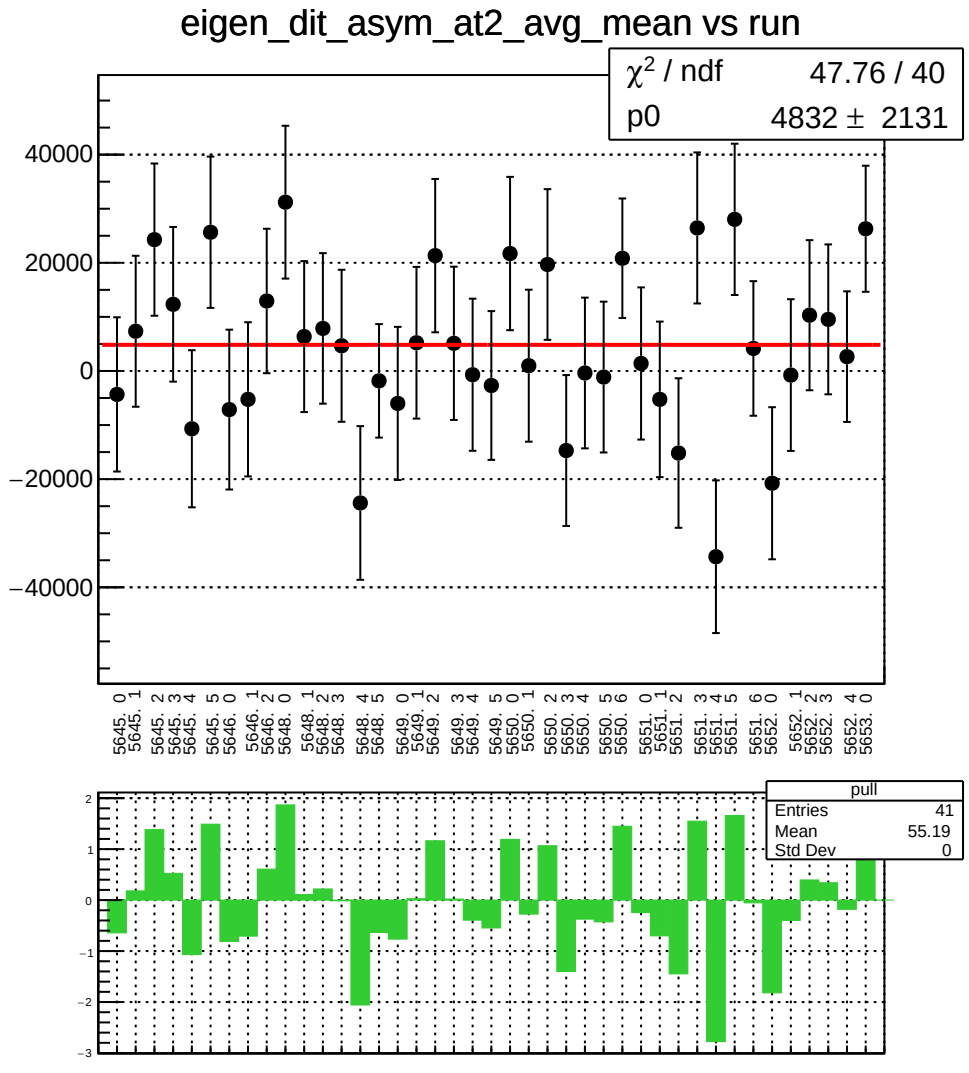

pull1D
Entries 41
Mean −0.016
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at2_avg_rms vs run
χ² / ndf 170.6 / 40
p0 1340 ± 1.507
1420
1400
1380
1360
1340
1320
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 43.2 / 40
p0 −8545 ± 1.096e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.99
Std Dev 26.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.02515
Std Dev 1.026
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 5238 / 40
p0 6867 ± 7.75
9000
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 47.76 / 40
p0 4832 ± 2131
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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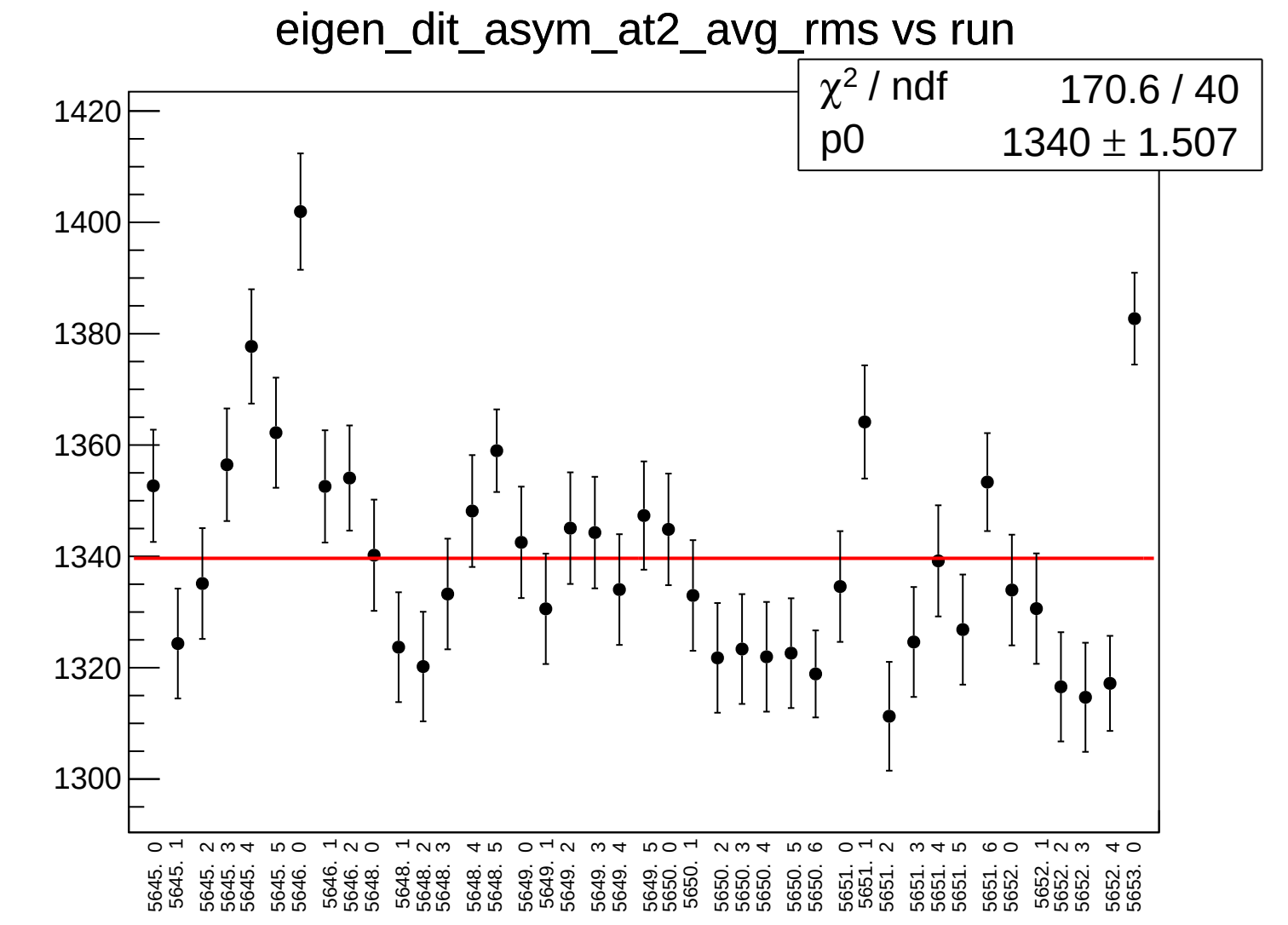
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 55.19
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.016
Std Dev 1.079
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 170.6 / 40
p0 1340 ± 1.507
1420
1400
1380
1360
1340
1320
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
5652. 0
5652. 1
5652. 2
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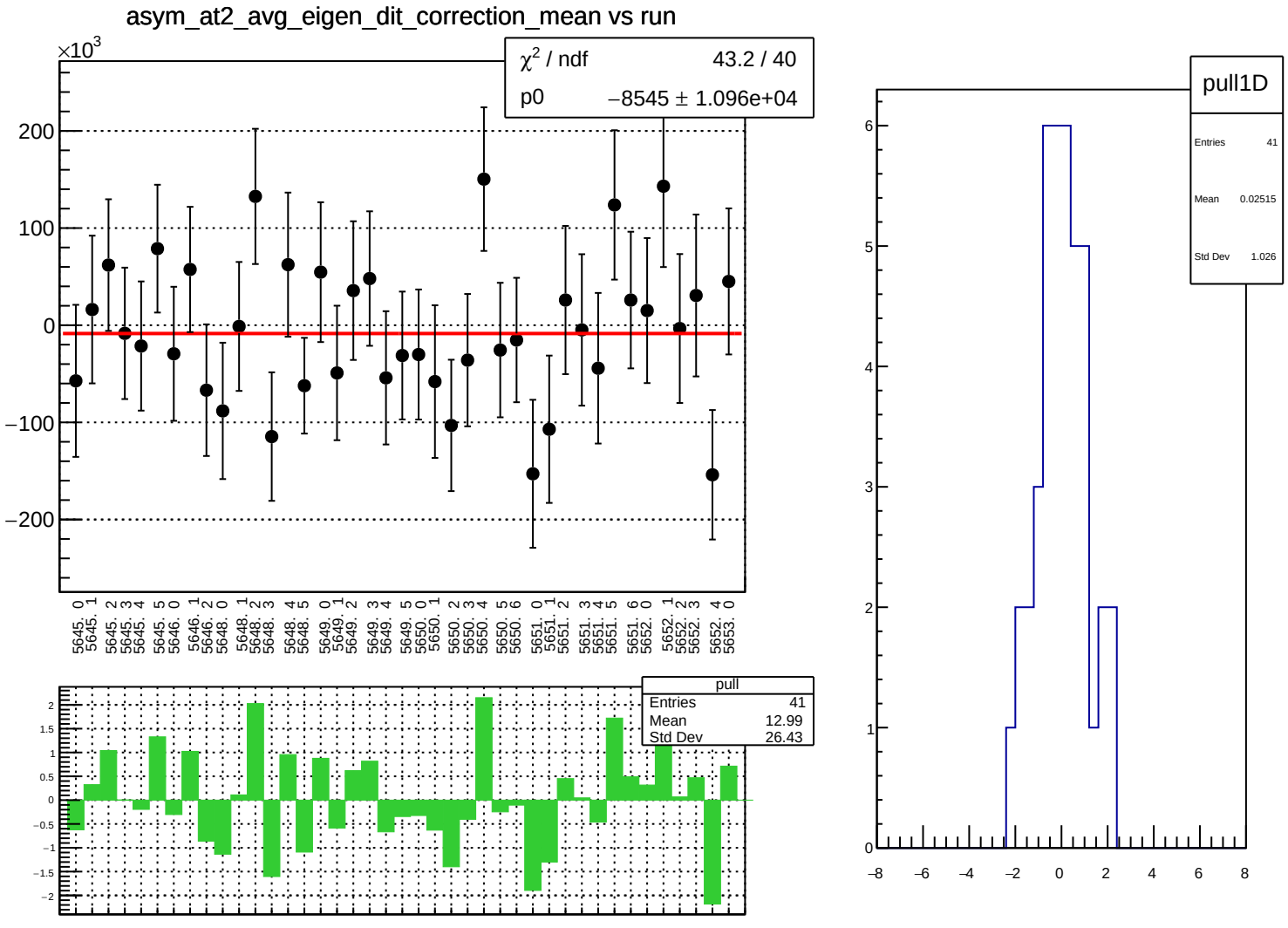
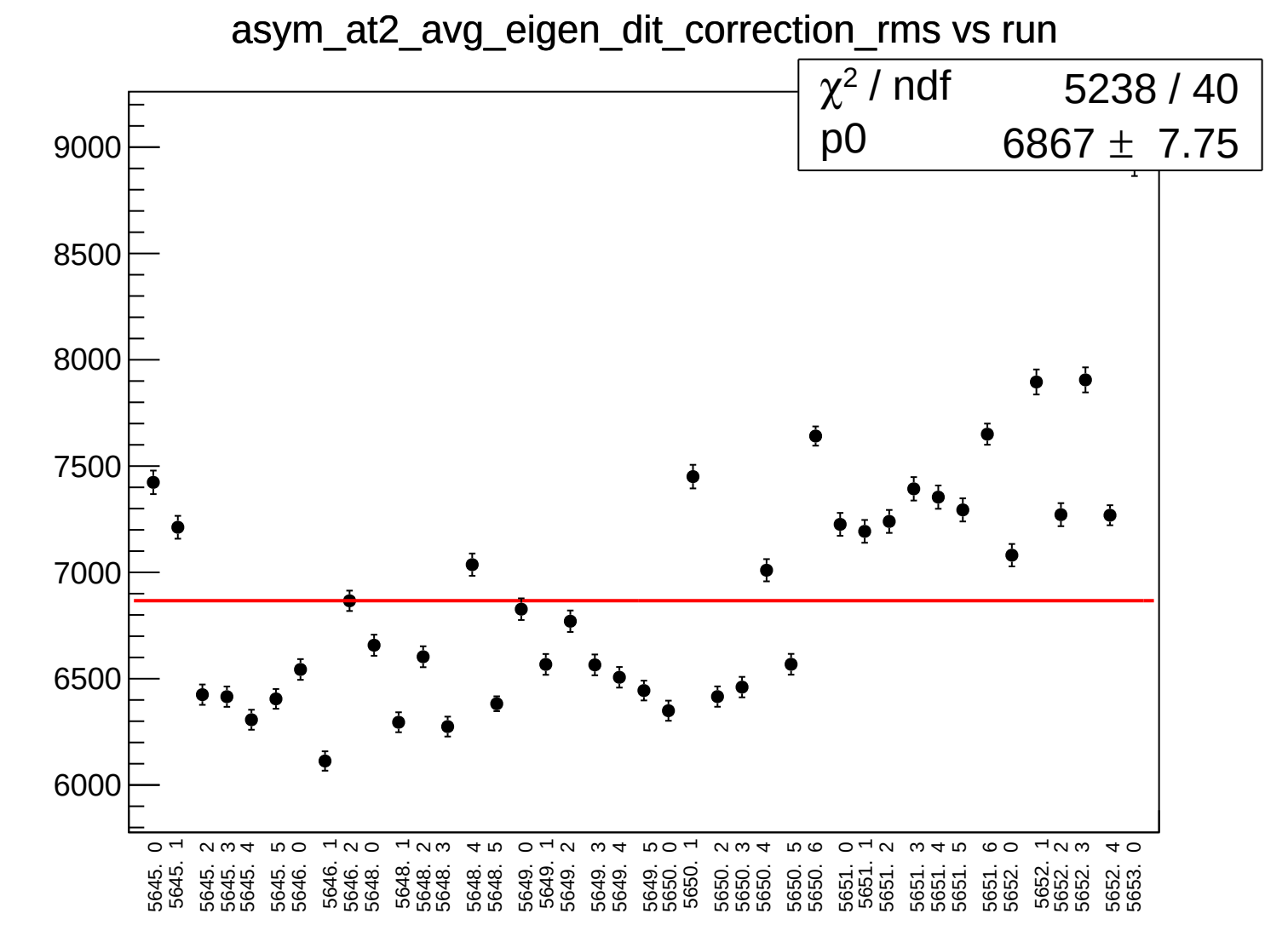
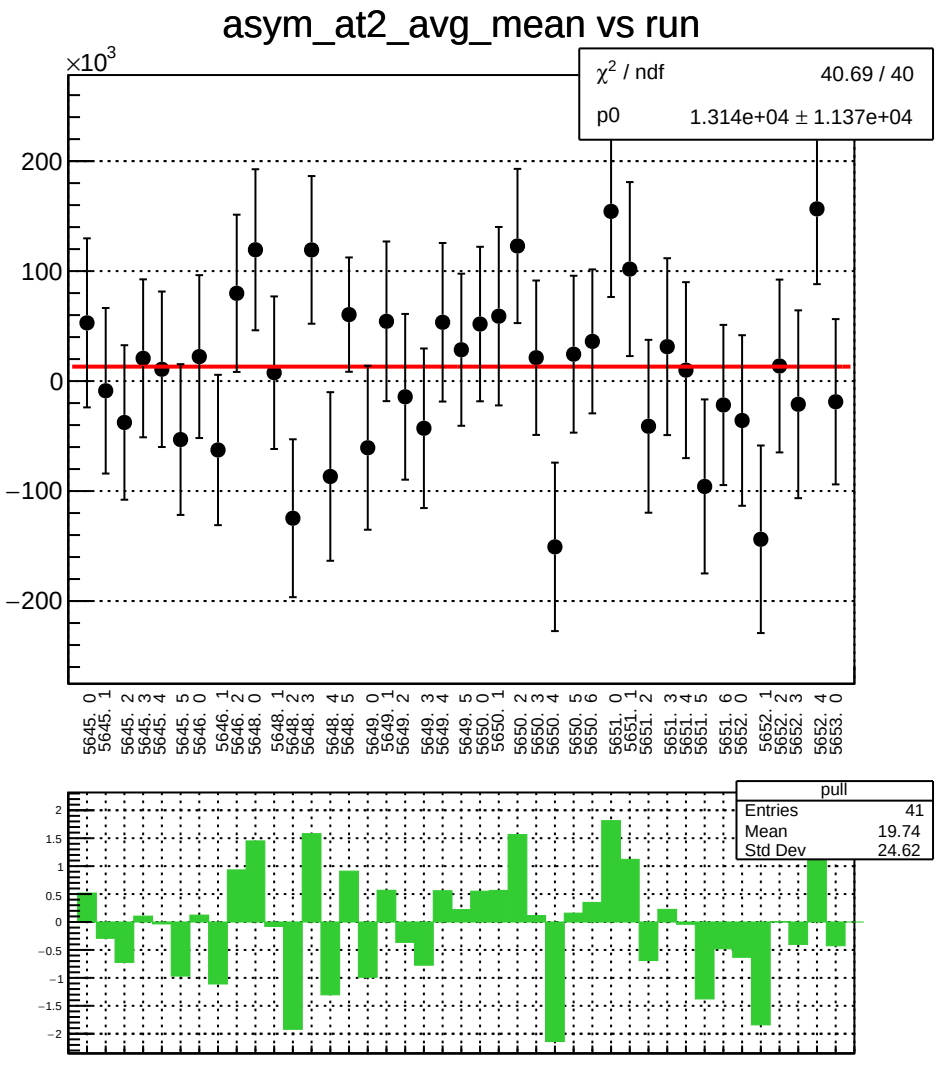
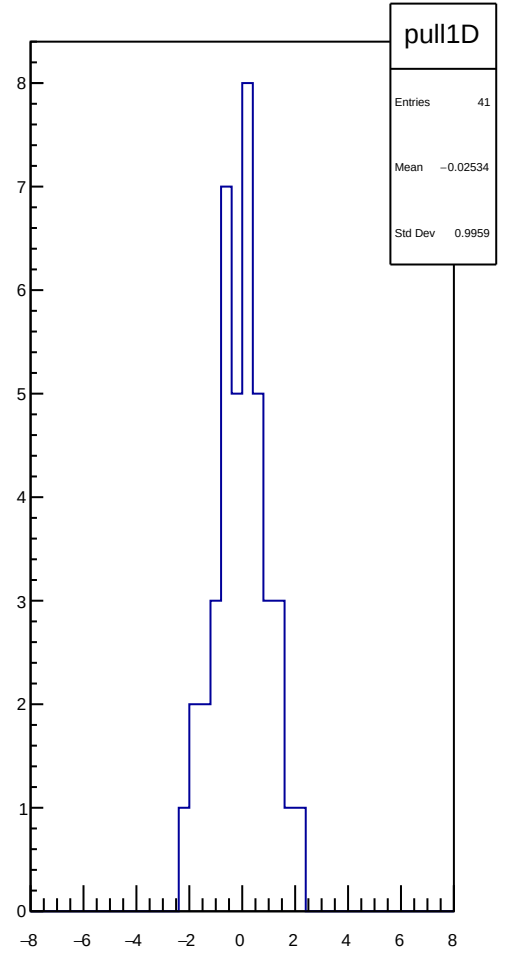
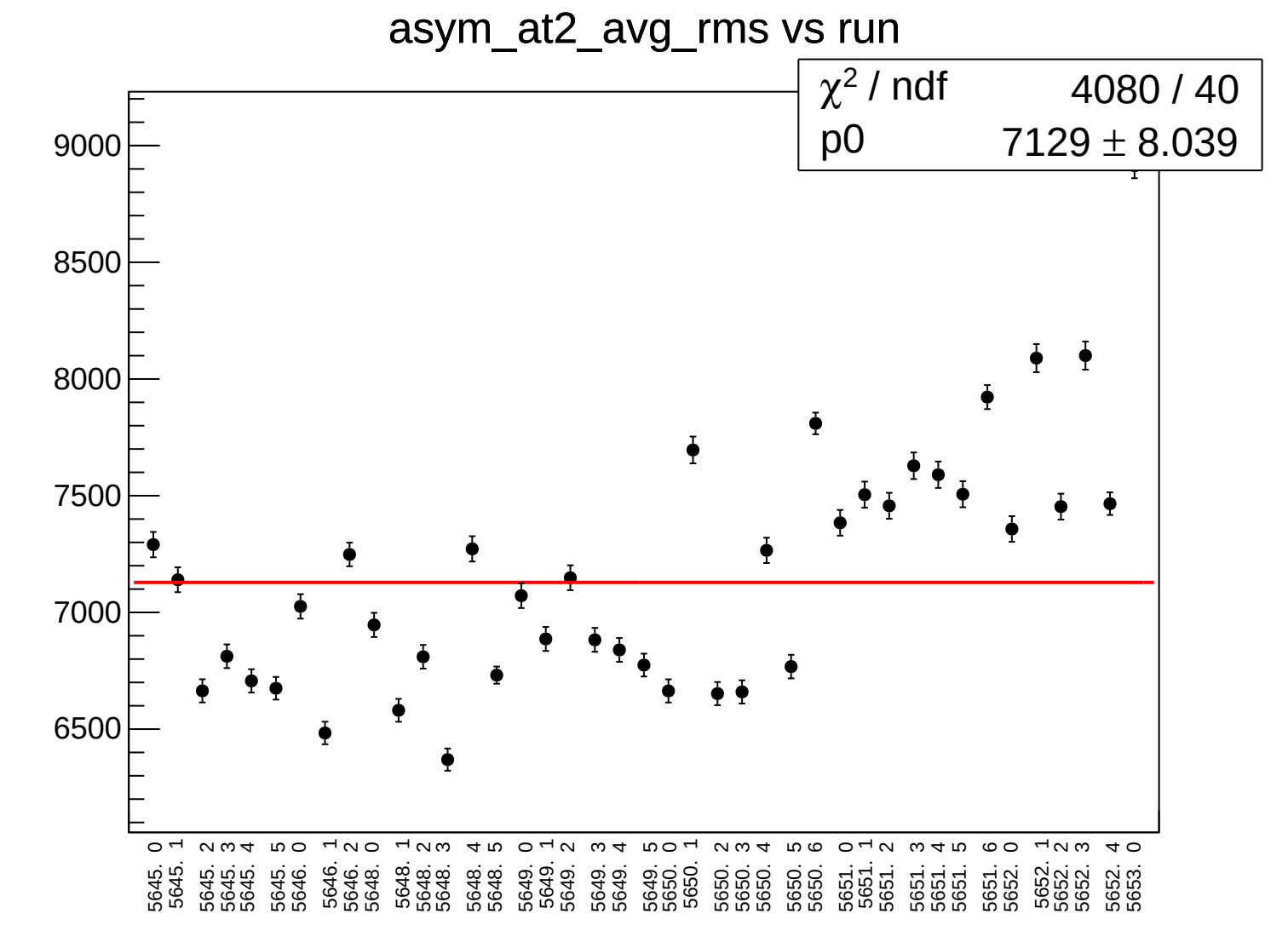
5652. 4
5653. 0

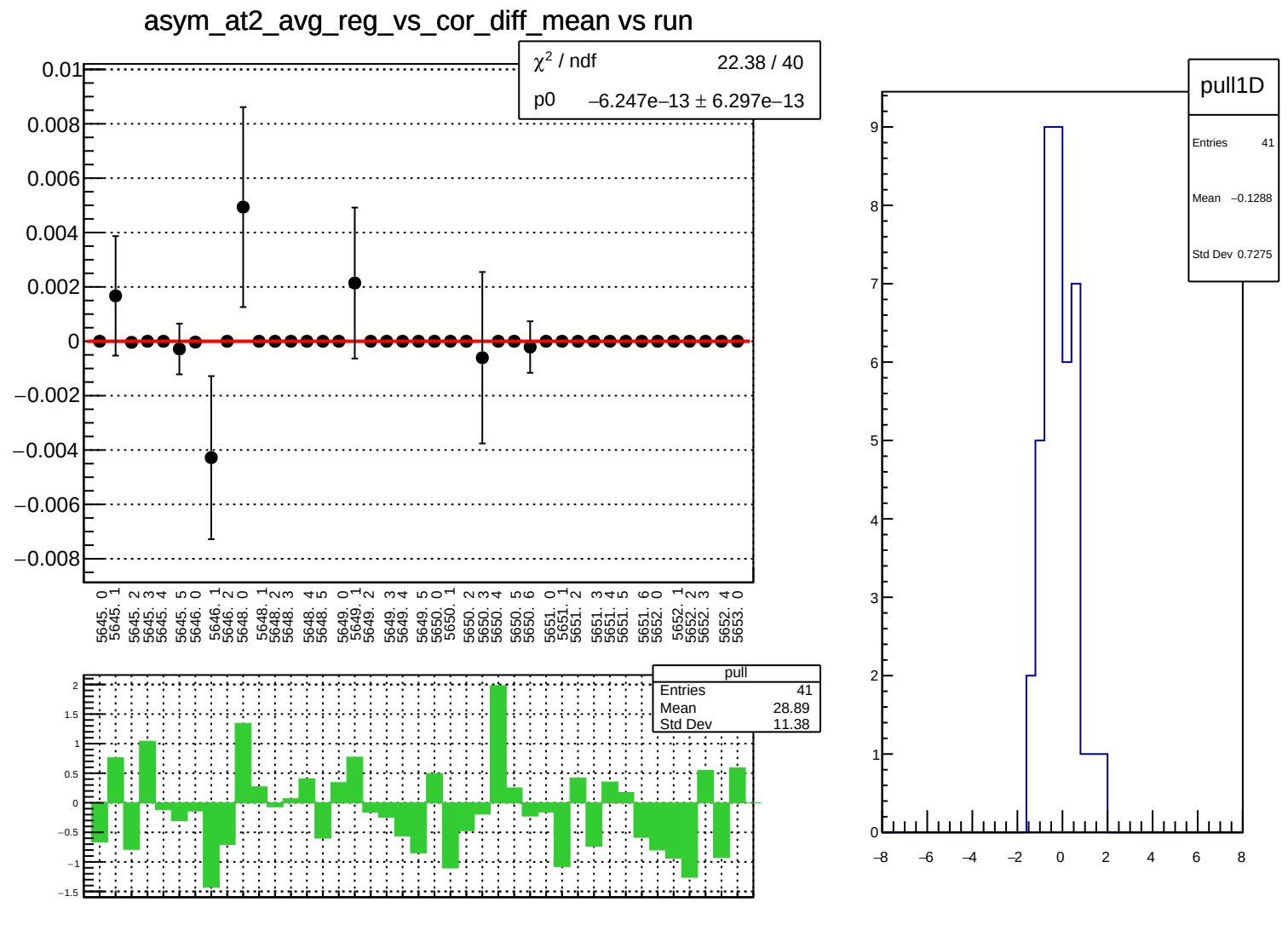

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.2 / 40
p0 −8545 ± 1.096e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.99
Std Dev 26.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02515
Std Dev 1.026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

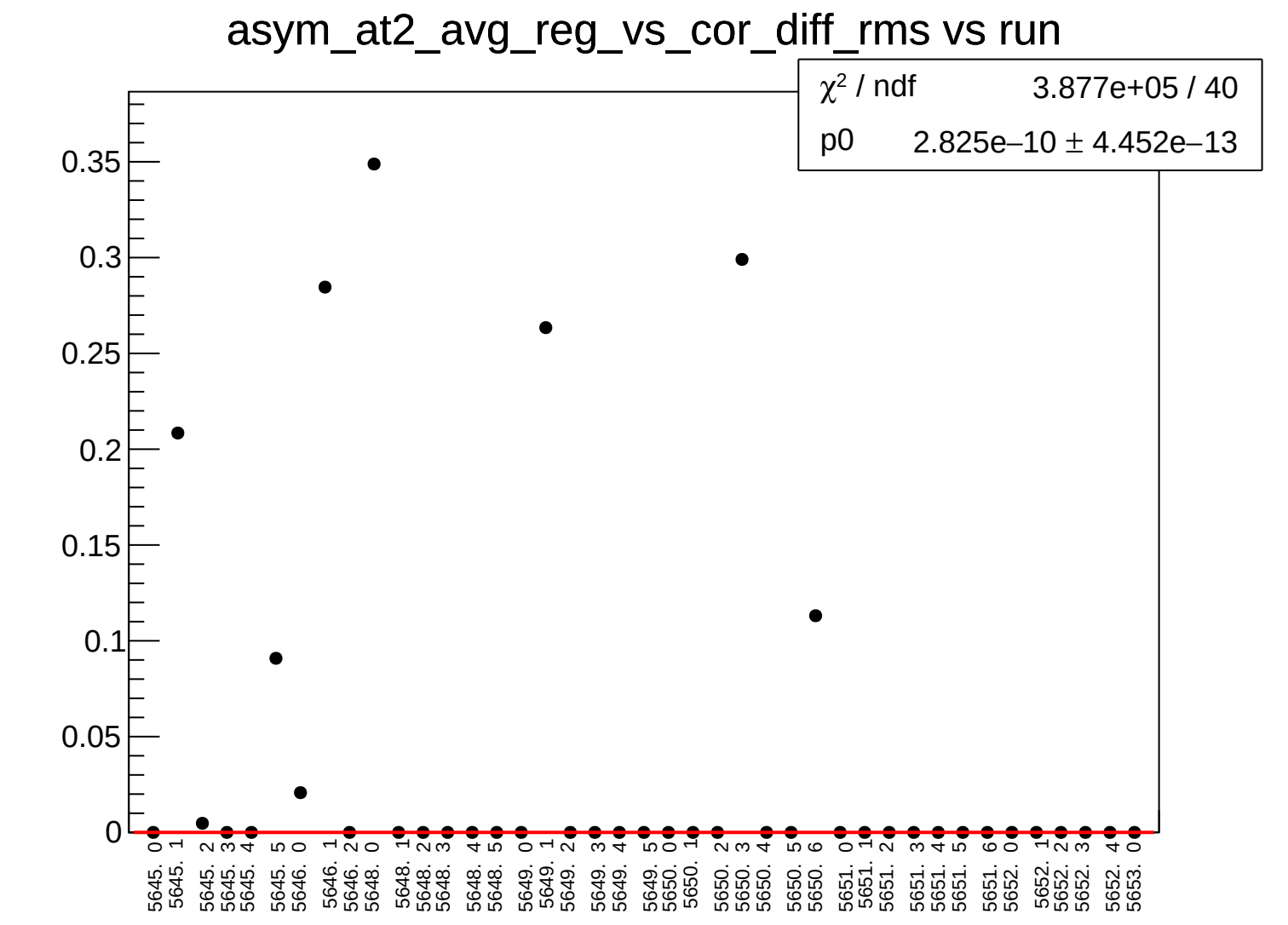

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5238 / 40
p0 6867 ± 7.75
9000
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

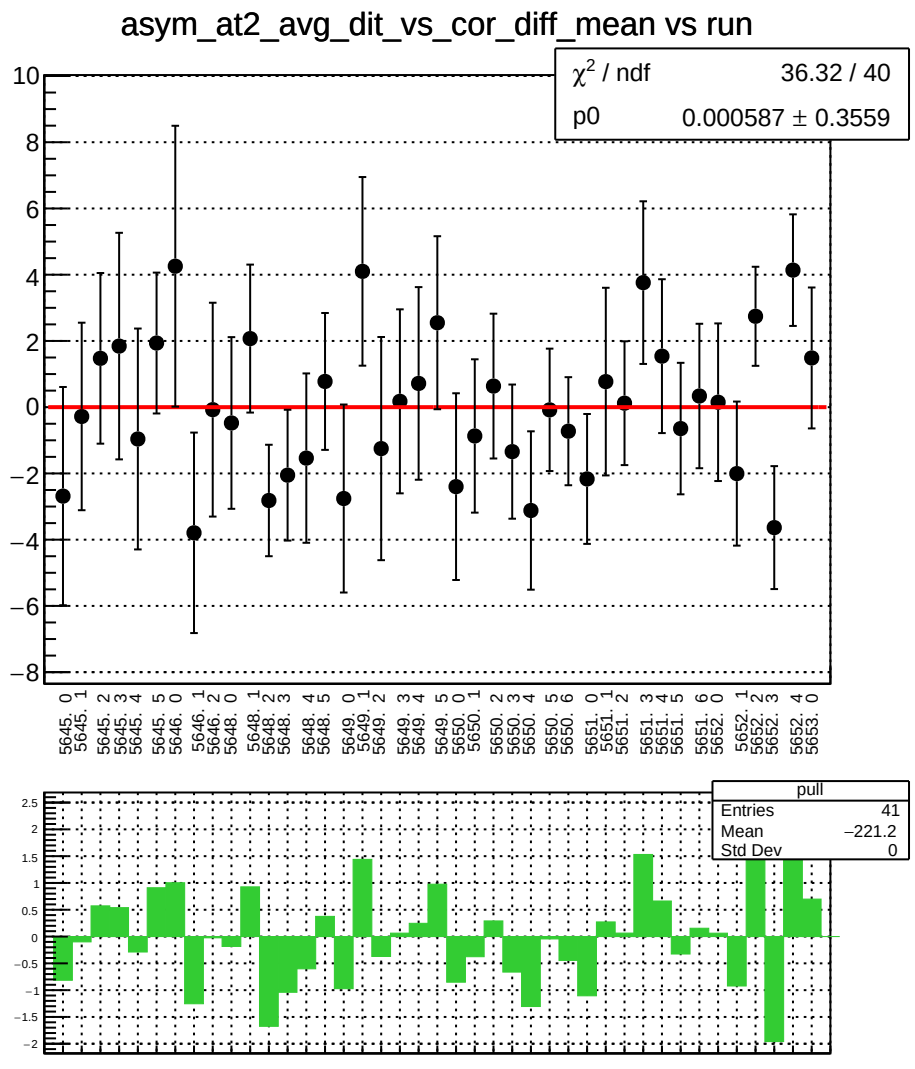

asym_at2_avg_mean vs run
×10^3
χ² / ndf 40.69 / 40
p0 1.314e+04 ± 1.137e+04
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 19.74
Std Dev 24.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

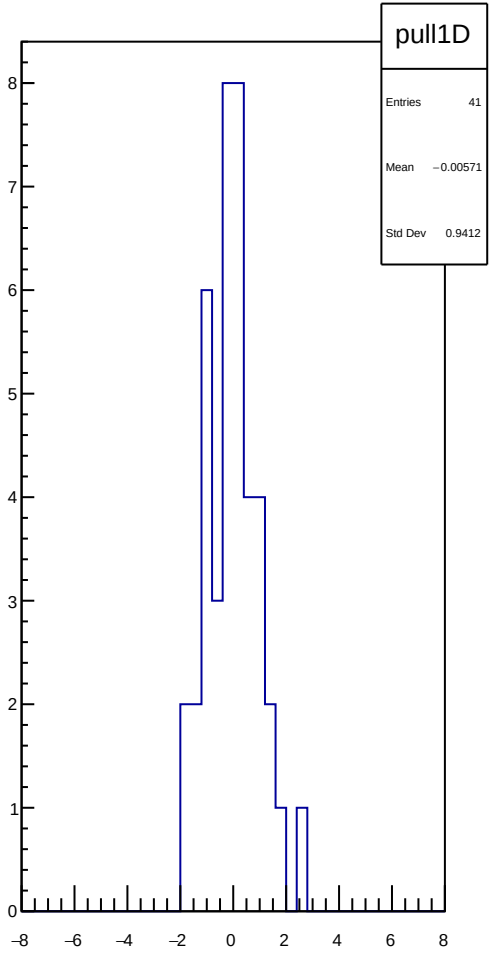

pull1D
Entries 41
Mean −0.02534
Std Dev 0.9959
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

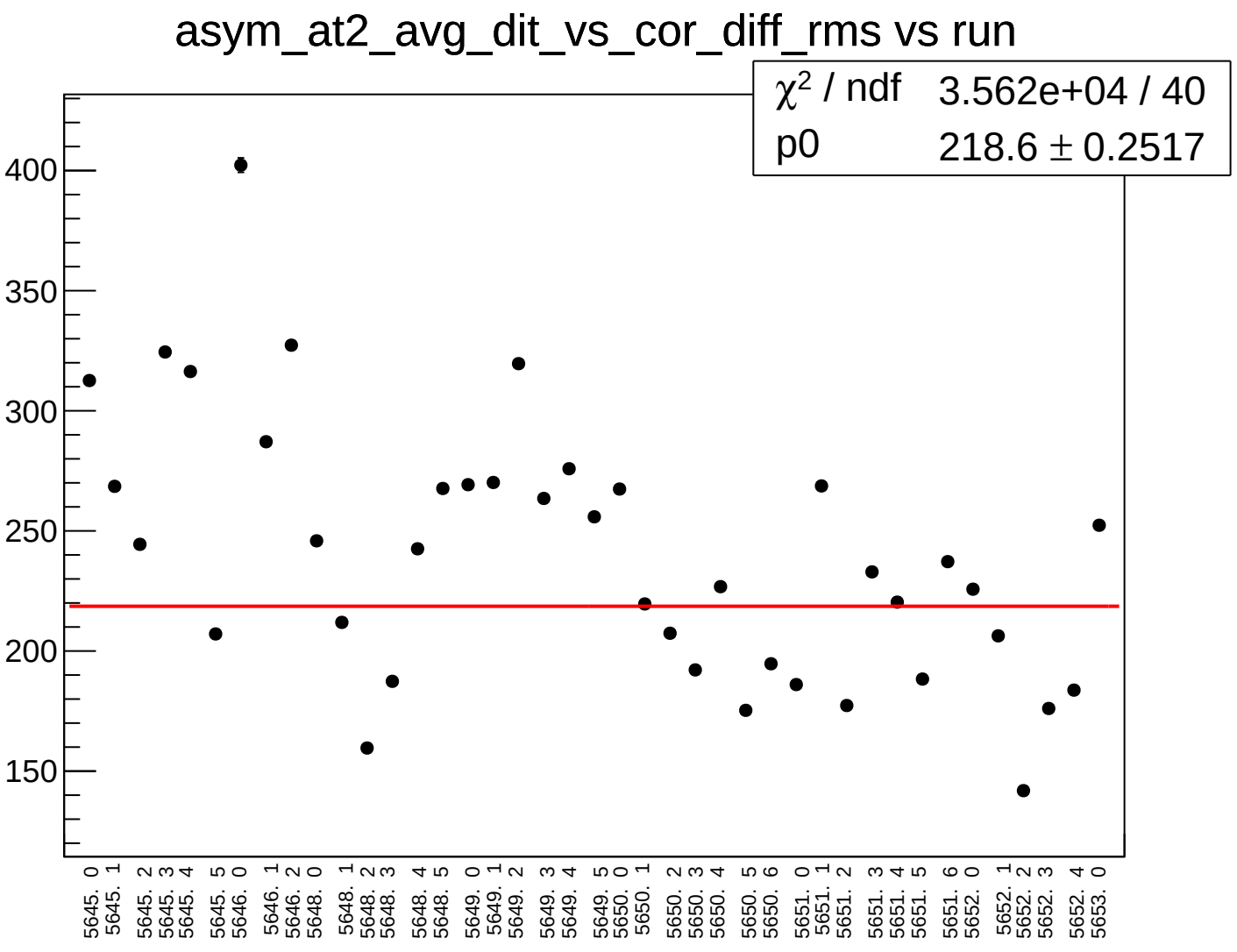

asym_at2_avg_rms vs run
χ² / ndf 4080 / 40
p0 7129 ± 8.039
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

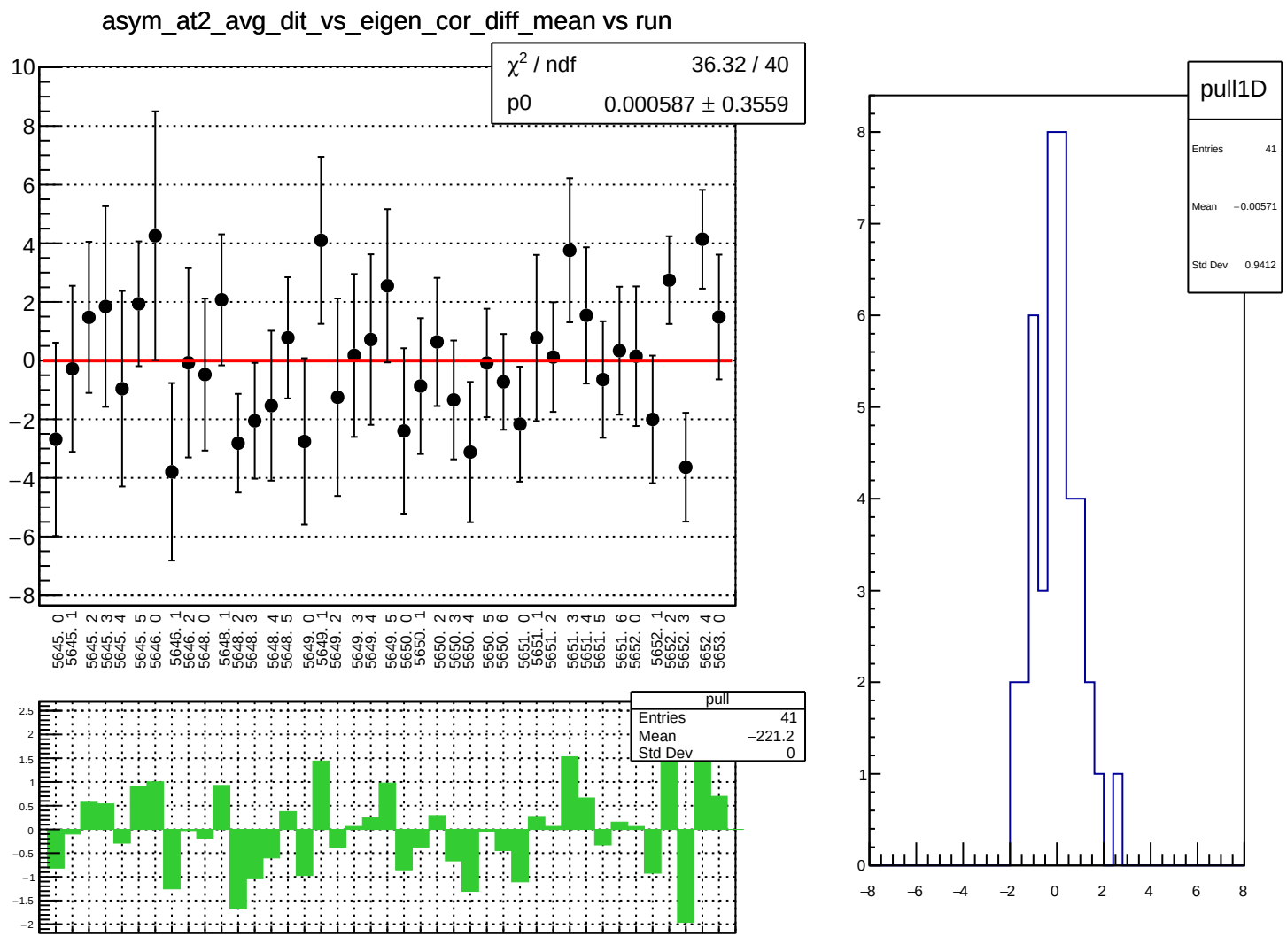

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 22.38 / 40
p0 −6.247e−13 ± 6.297e−13
pull
Entries 41
Mean 28.89
Std Dev 11.38
pull1D
Entries 41
Mean −0.1288
Std Dev 0.7275

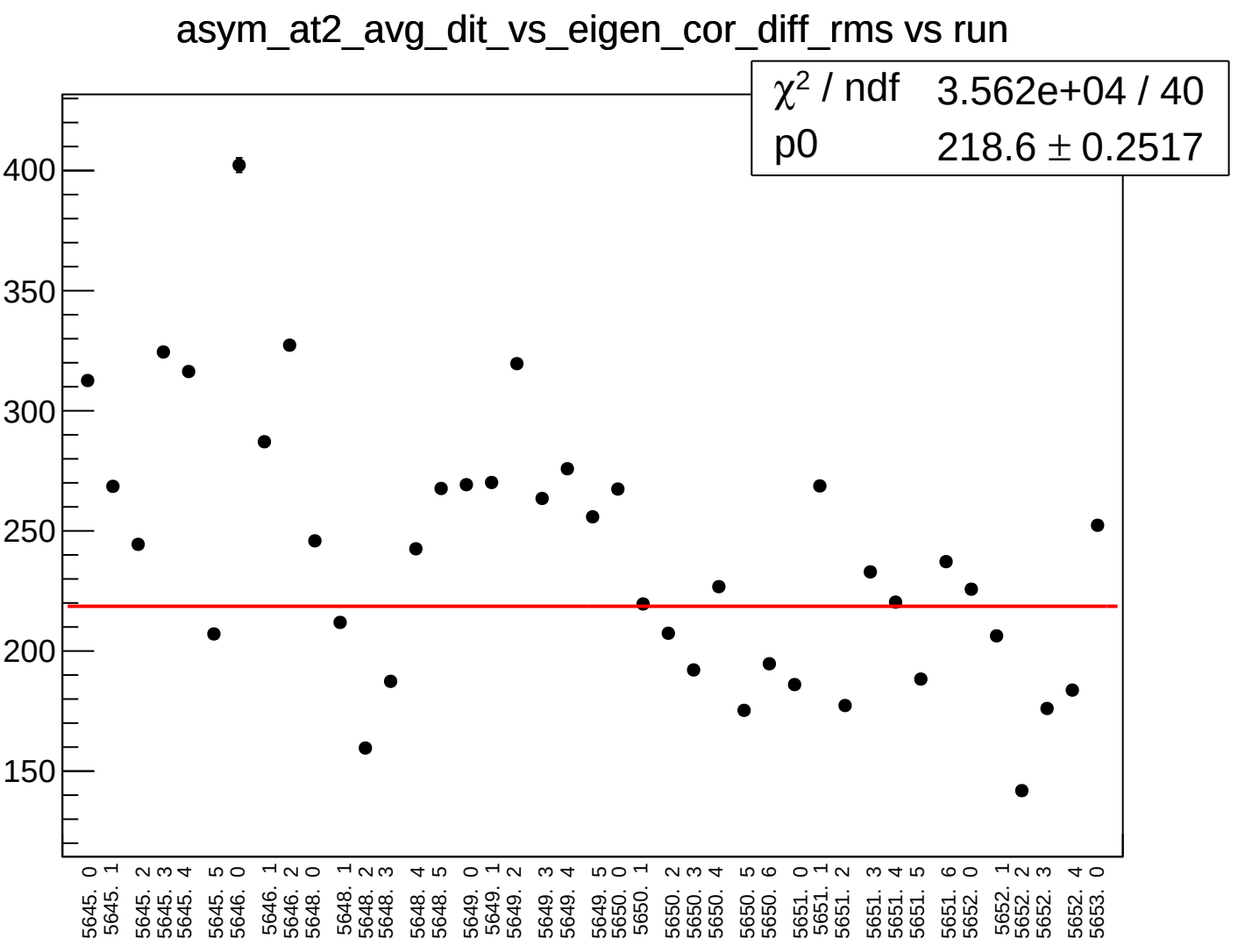

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.877e+05 / 40
p0 2.825e−10 ± 4.452e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

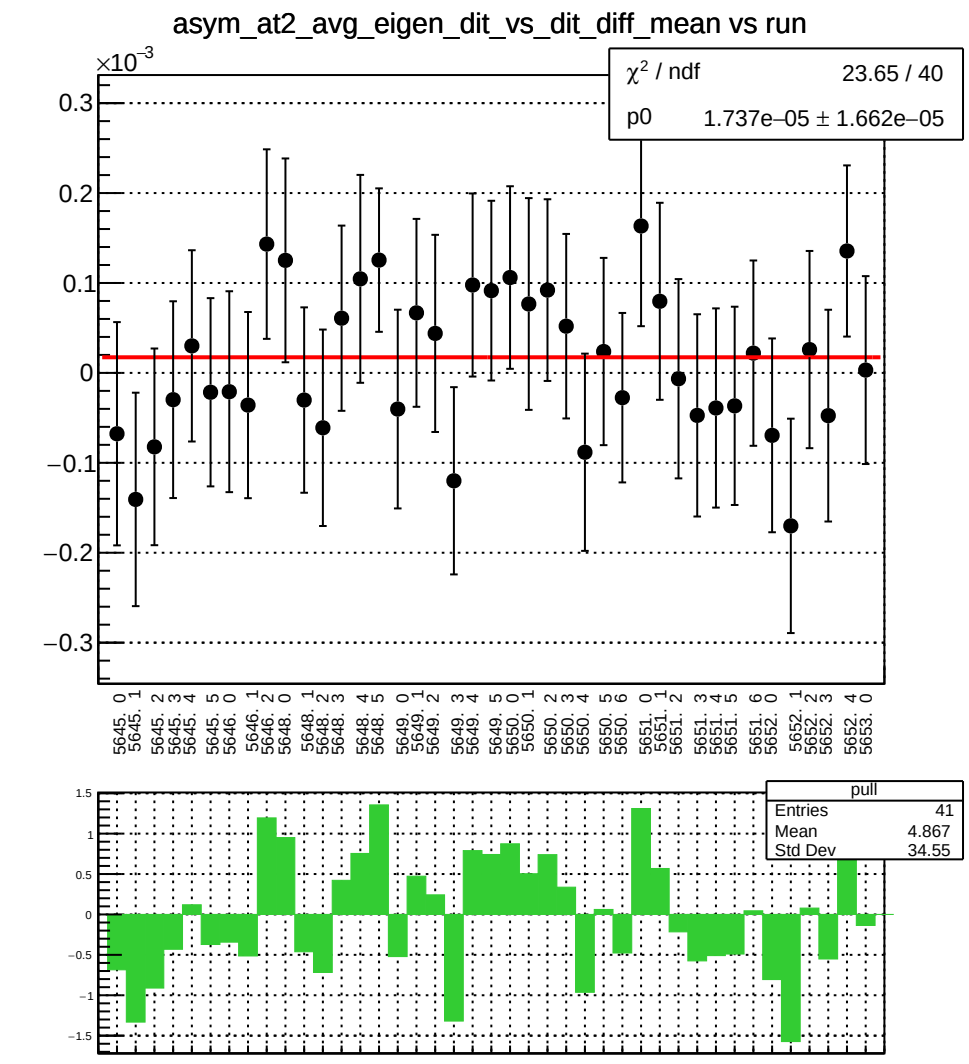

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.32 / 40
p0 0.000587 ± 0.3559
pull
Entries 41
Mean −221.2
Std Dev 0

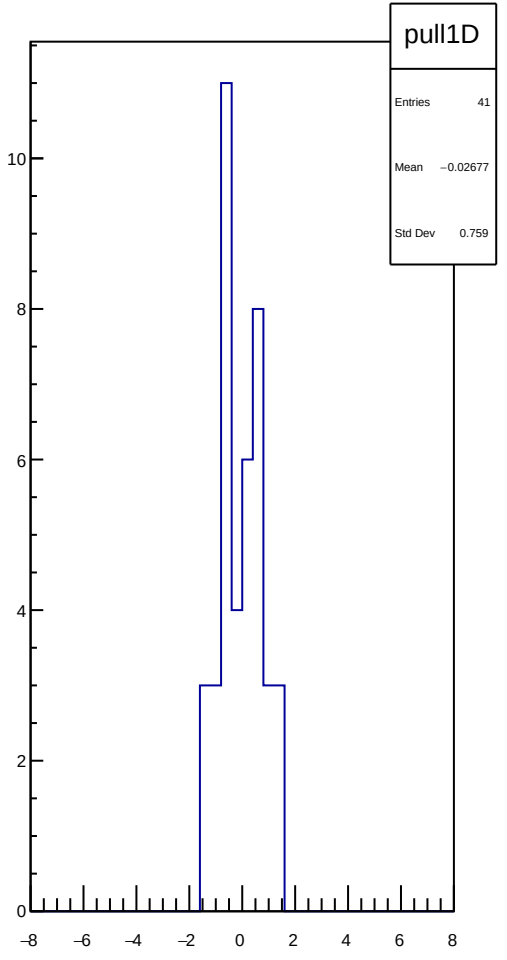

pull1D
Entries 41
Mean −0.00571
Std Dev 0.9412

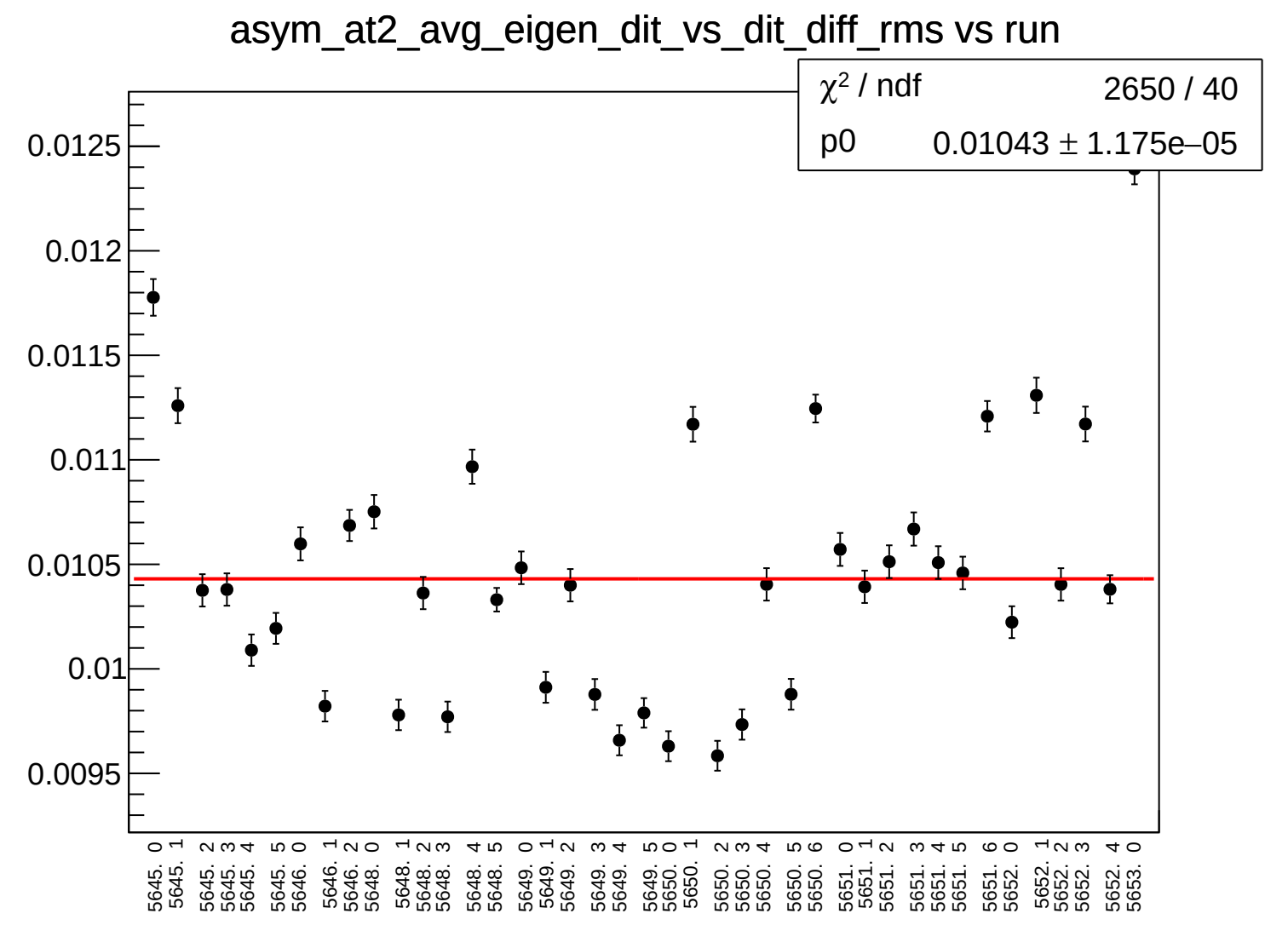

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.562e+04 / 40
p0 218.6 ± 0.2517
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

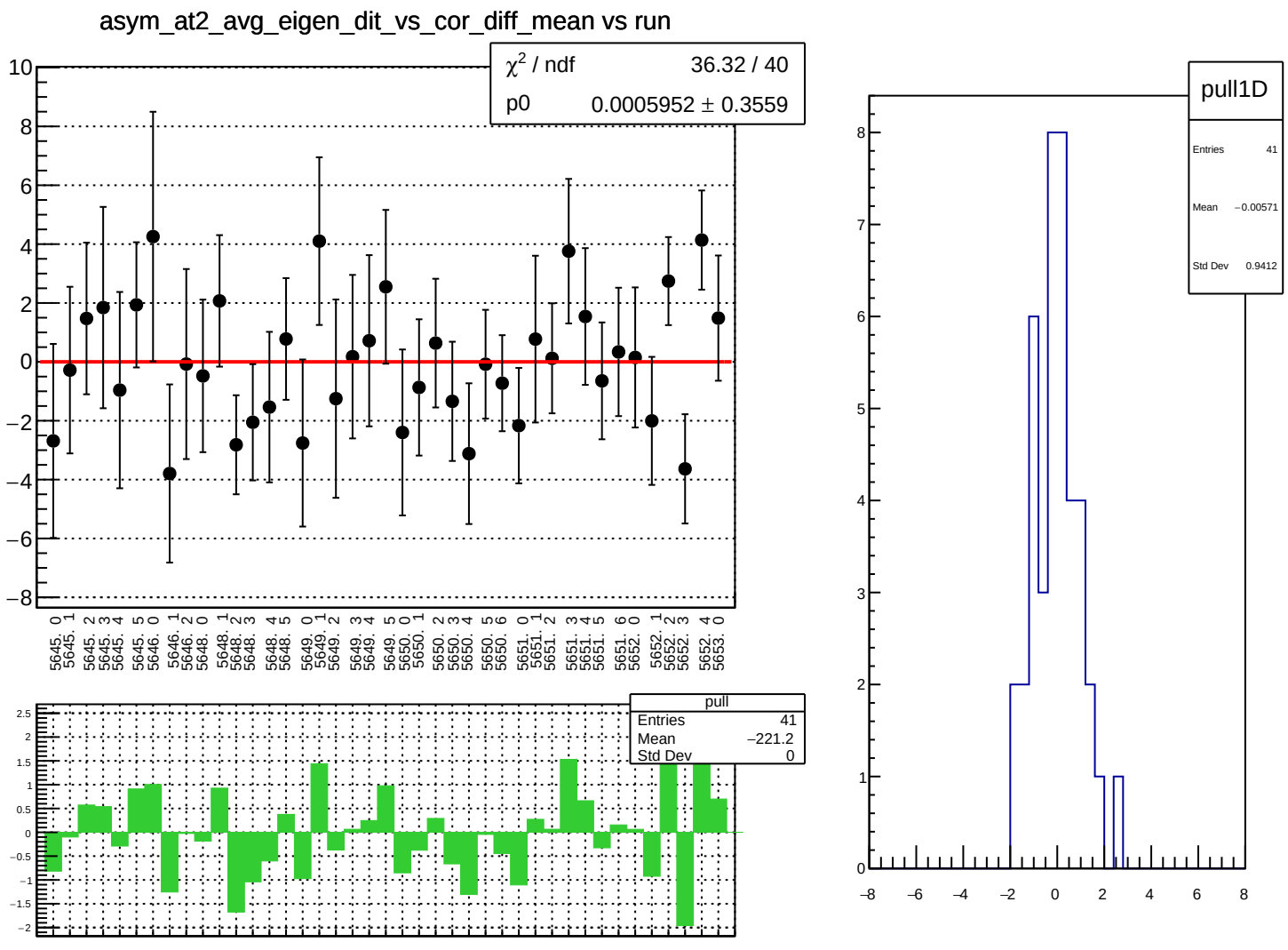

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.32 / 40
p0 0.000587 ± 0.3559
pull
Entries 41
Mean −221.2
Std Dev 0
pull1D
Entries 41
Mean −0.00571
Std Dev 0.9412

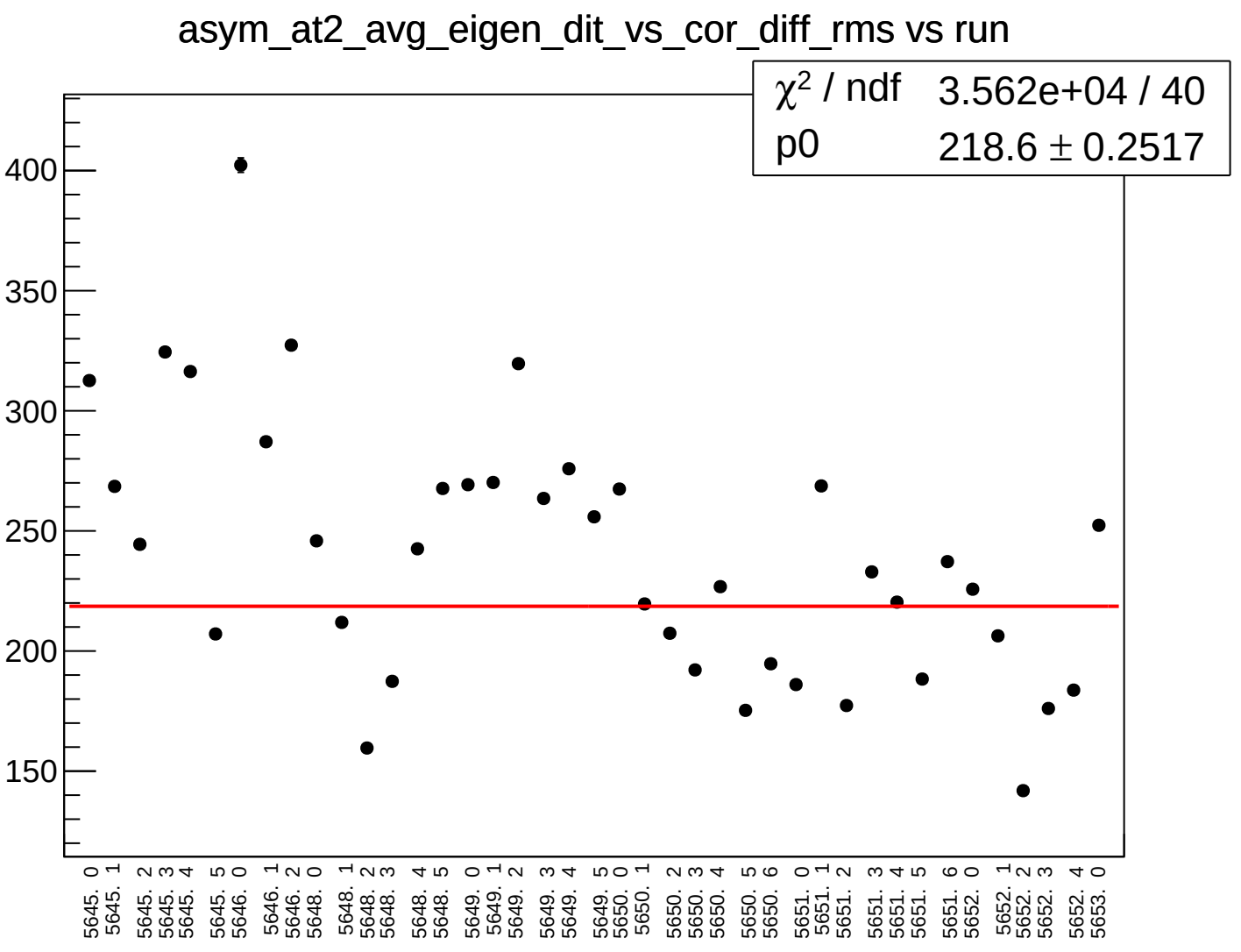

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.562e+04 / 40
p0 218.6 ± 0.2517
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

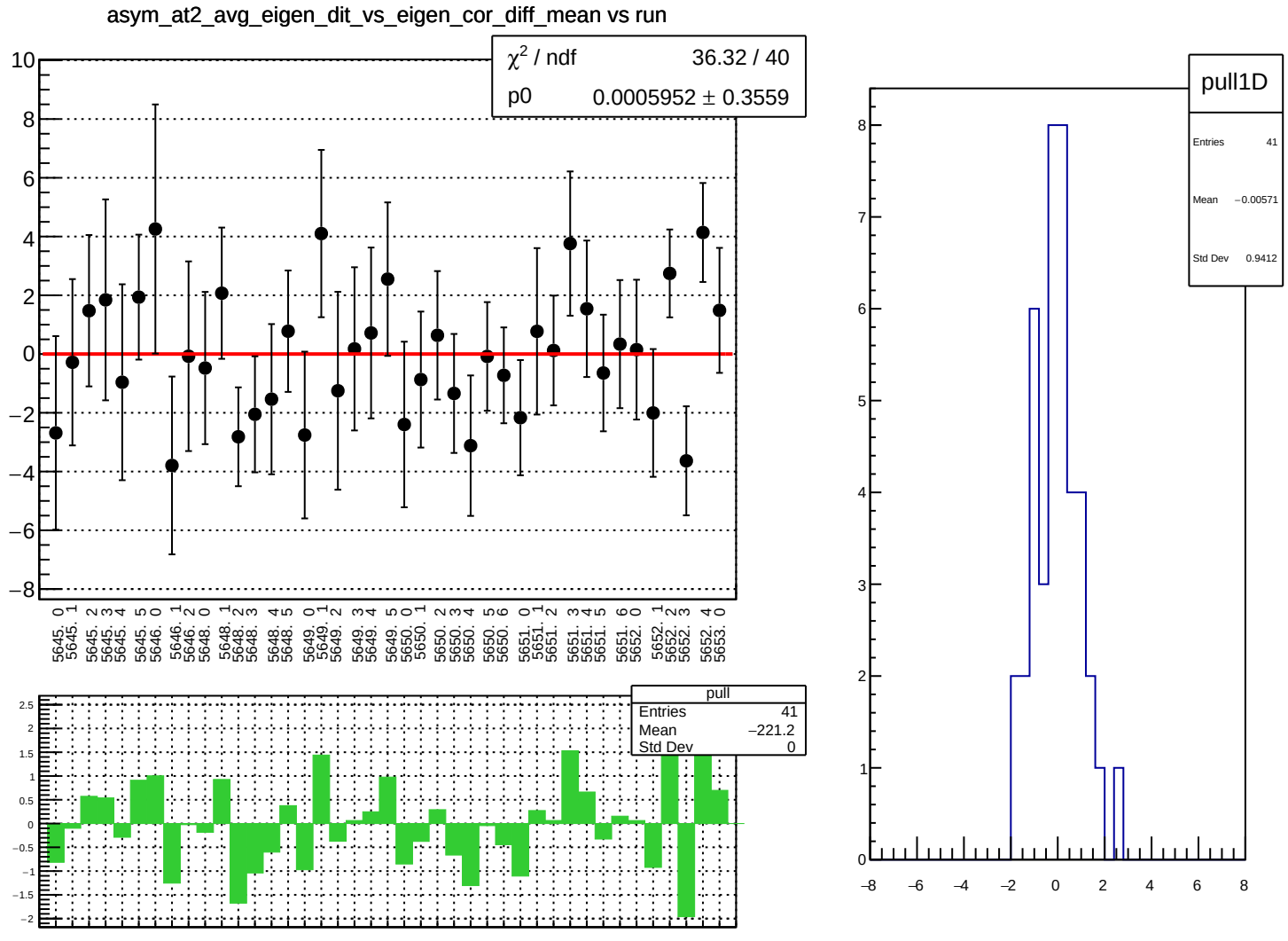

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 23.65 / 40
p0 1.737e−05 ± 1.662e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.867
Std Dev 34.55
1.5
1
0.5
0
−0.5
−1
−1.5

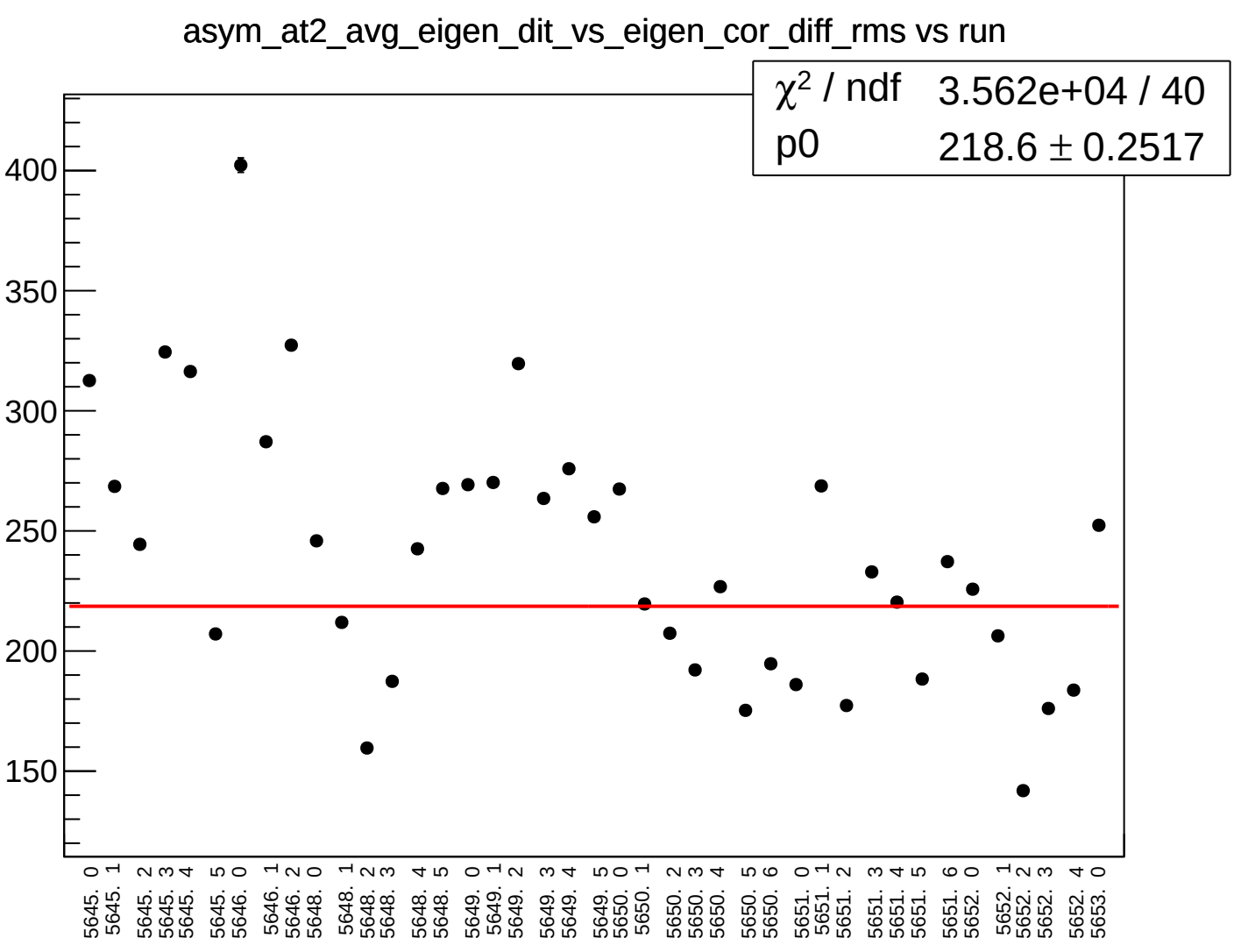

pull1D
Entries 41
Mean −0.02677
Std Dev 0.759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

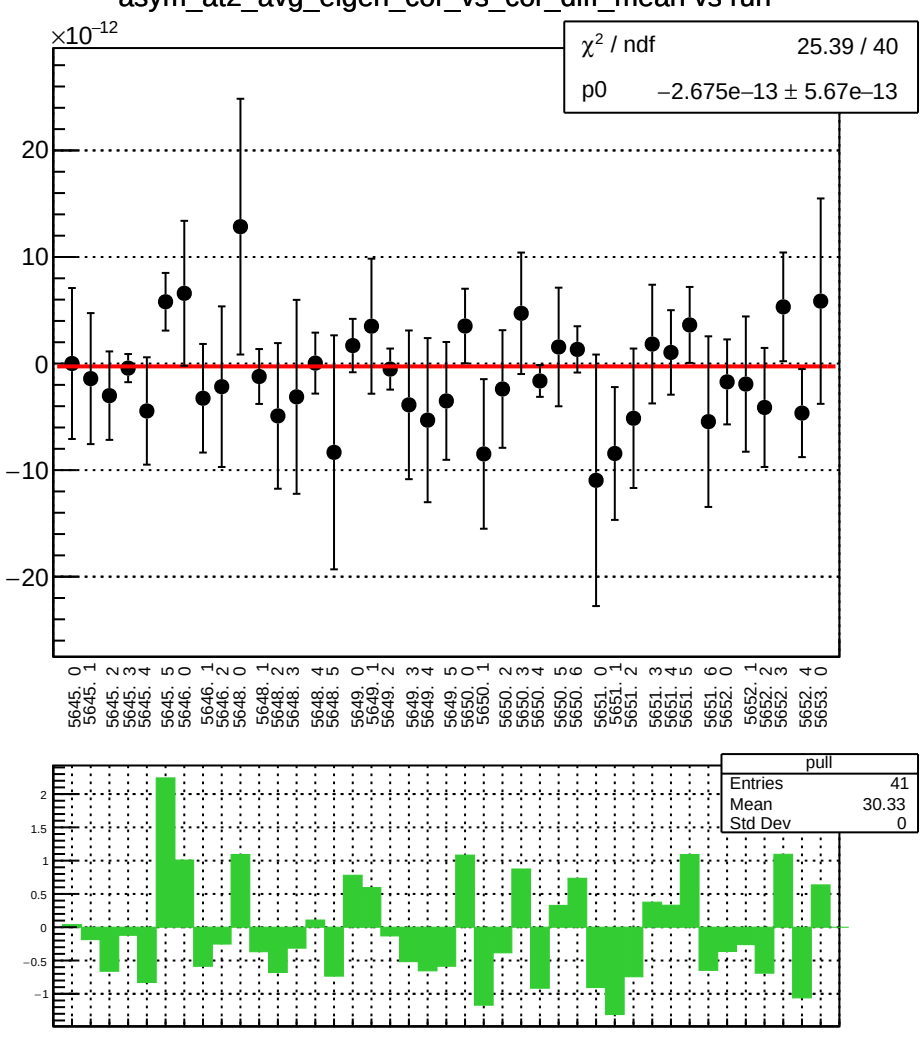

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2650 / 40
p0 0.01043 ± 1.175e−05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

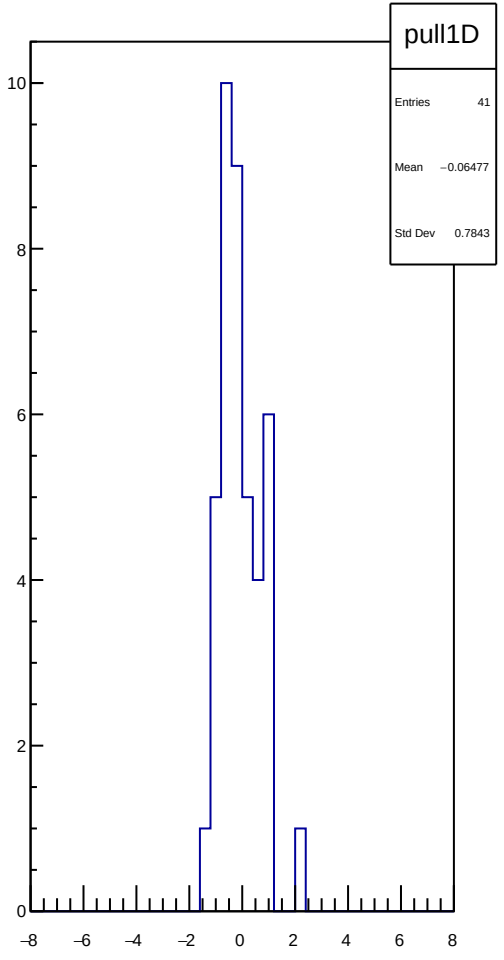

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.32 / 40
p0 0.0005952 ± 0.3559
pull
Entries 41
Mean −221.2
Std Dev 0
pull1D
Entries 41
Mean −0.00571
Std Dev 0.9412

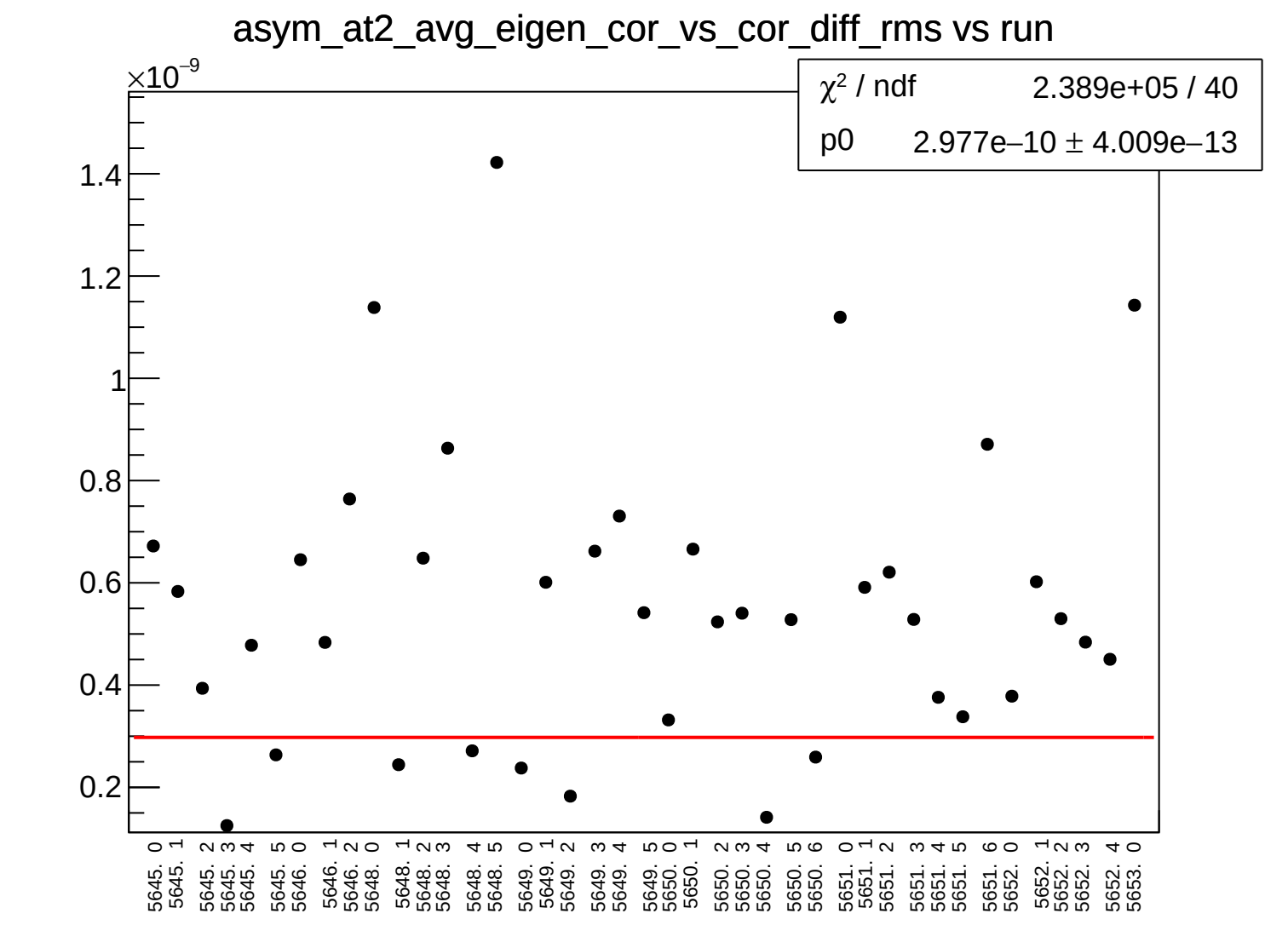

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.562e+04 / 40
p0 218.6 ± 0.2517
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

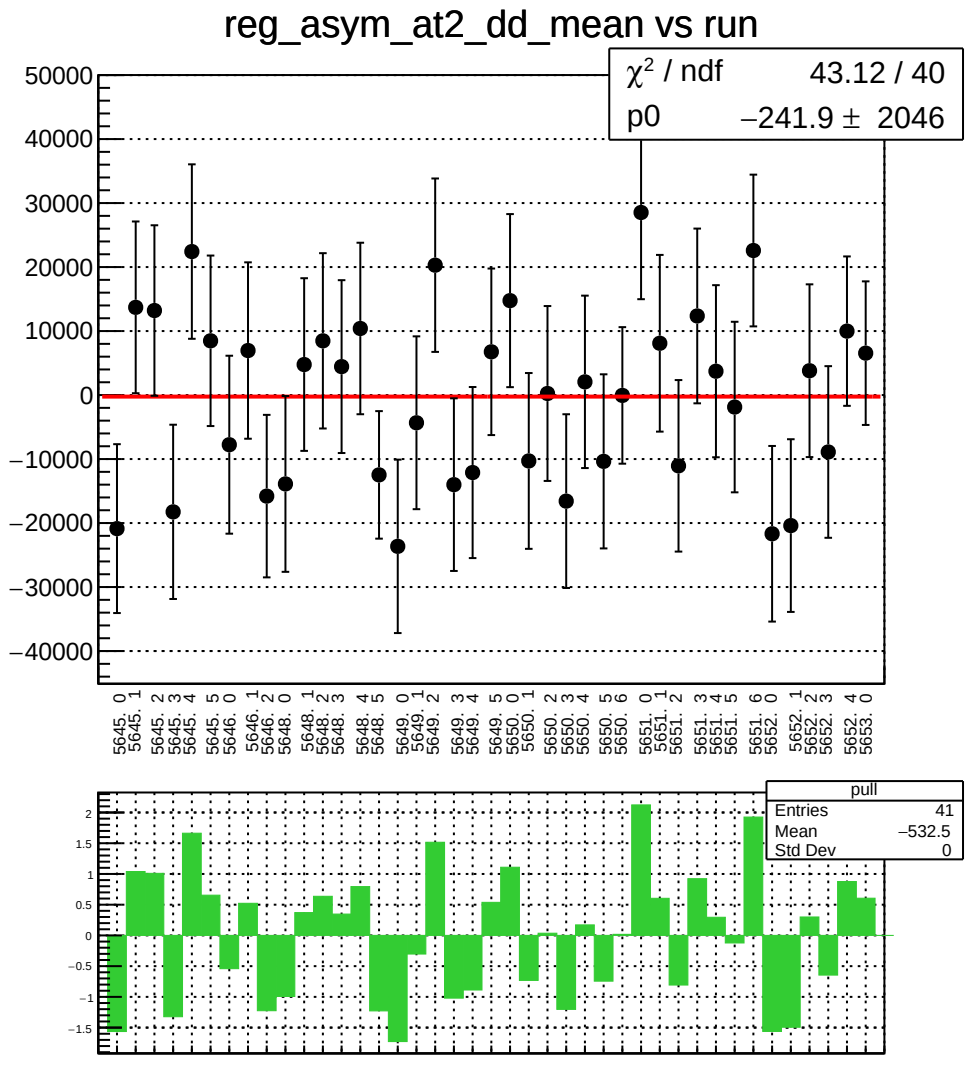

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.32 / 40
p0 0.0005952 ± 0.3559
pull
Entries 41
Mean −221.2
Std Dev 0
pull1D
Entries 41
Mean −0.00571
Std Dev 0.9412

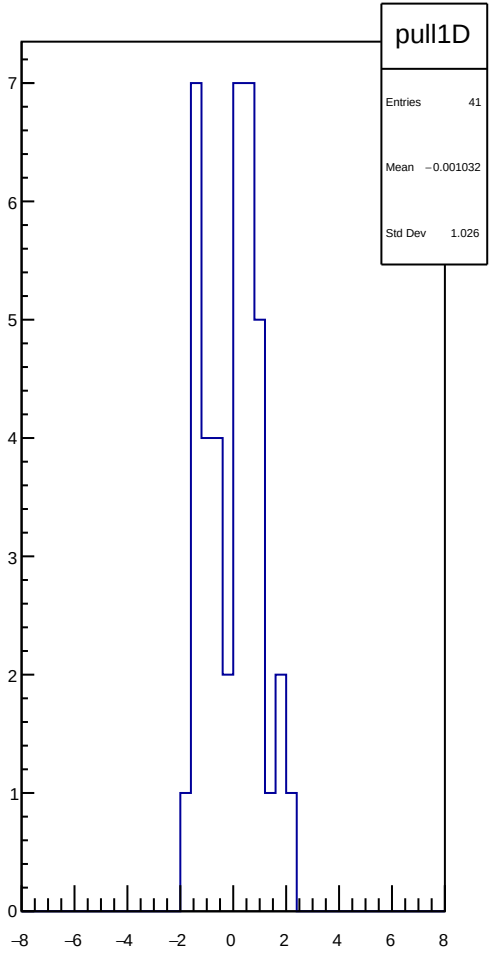

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.562e+04 / 40
p0 218.6 ± 0.2517
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

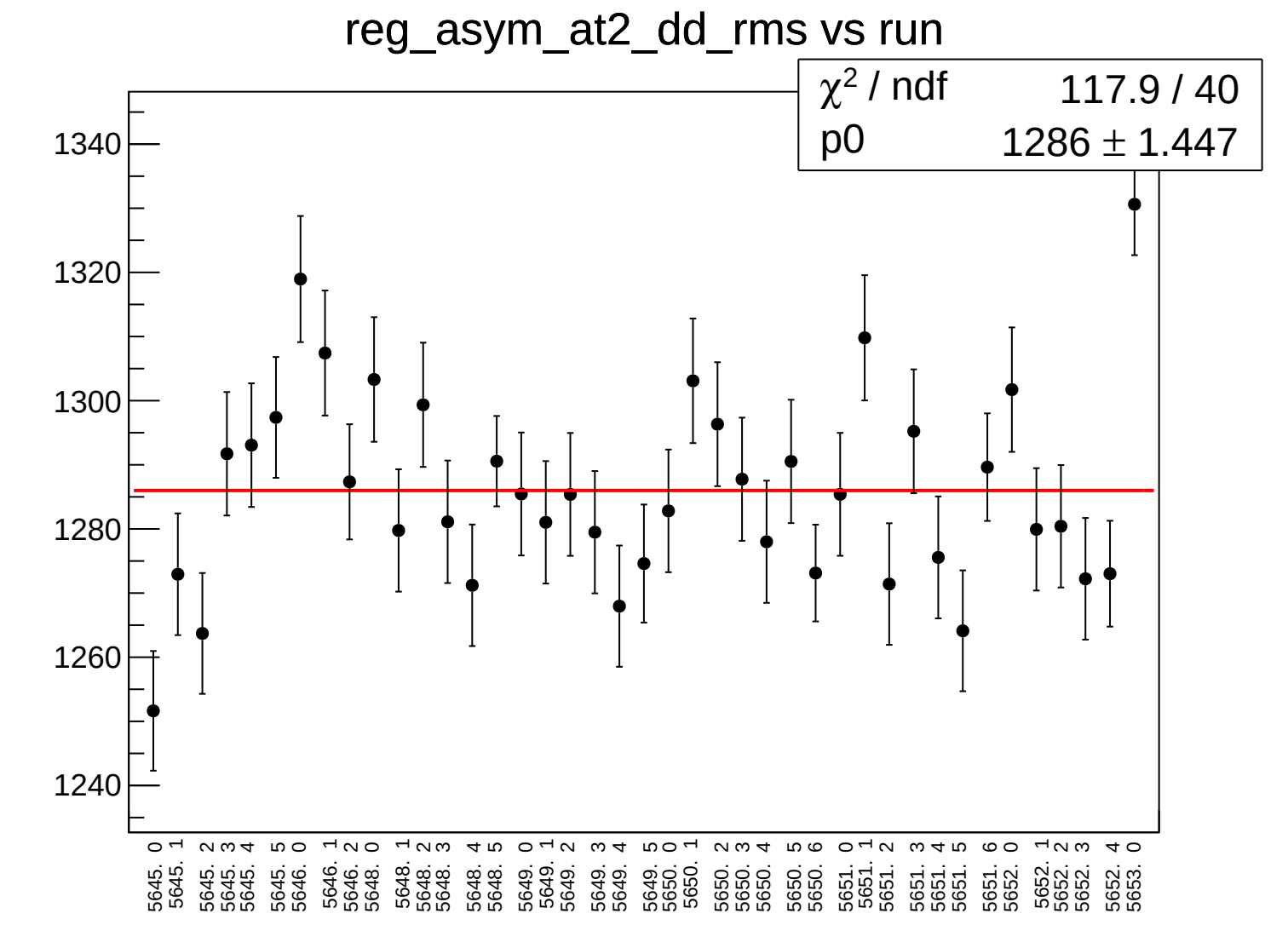

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.39 / 40
p0 −2.675e−13 ± 5.67e−13
pull
Entries 41
Mean 30.33
Std Dev 0

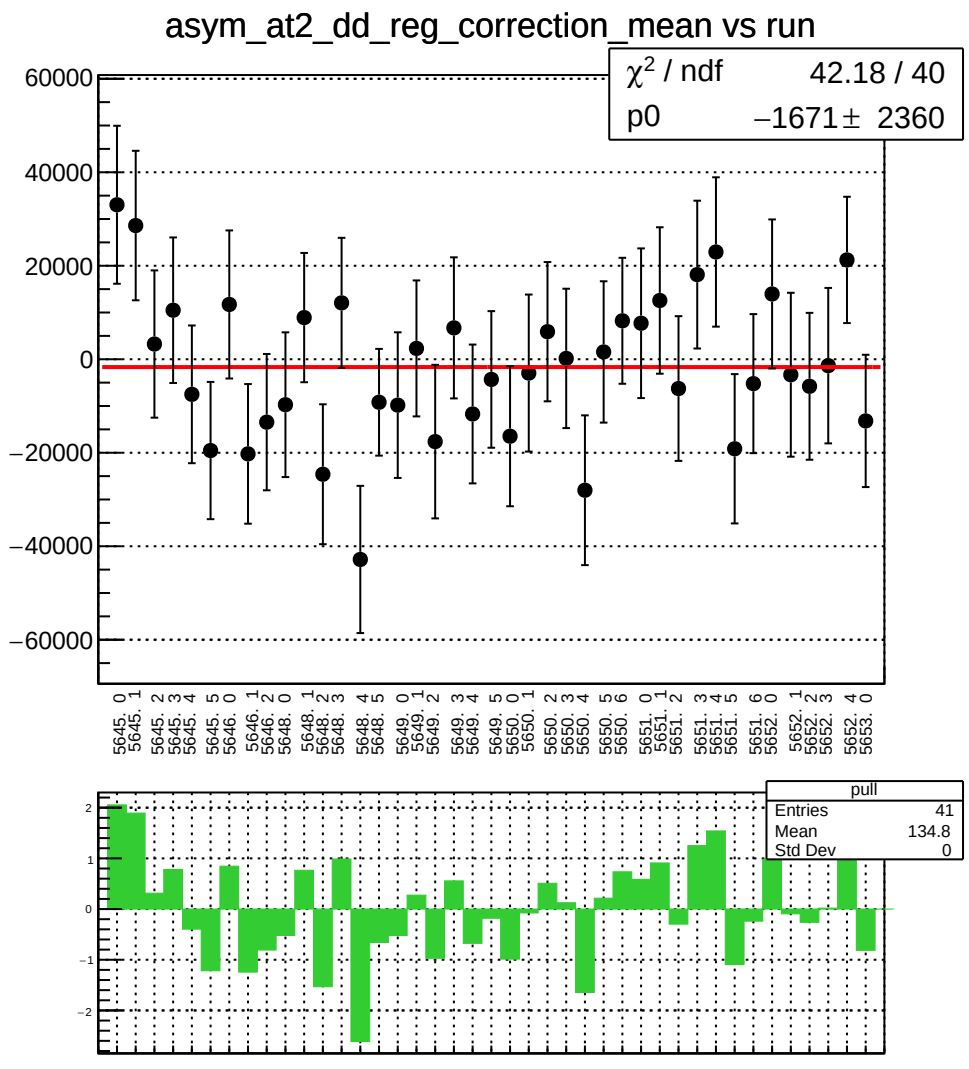

pull1D
Entries 41
Mean −0.06477
Std Dev 0.7843

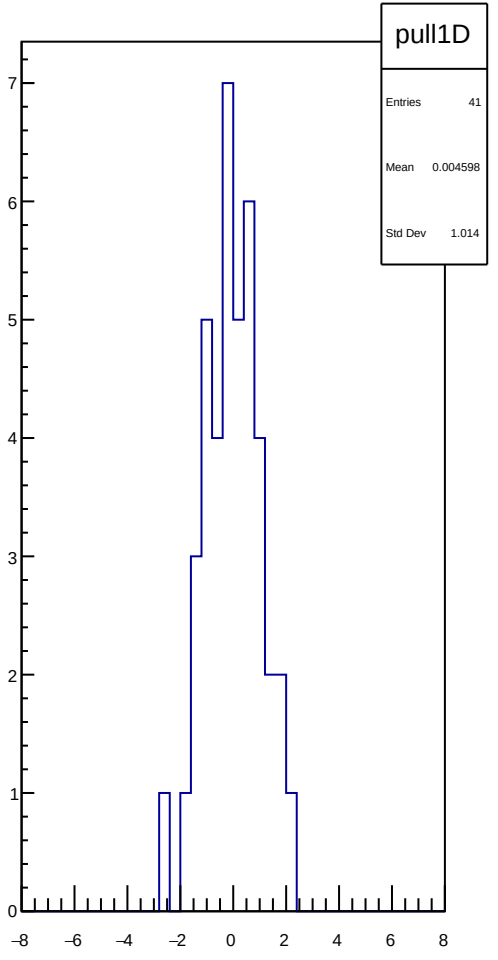

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.389e+05 / 40
p0 2.977e−10 ± 4.009e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

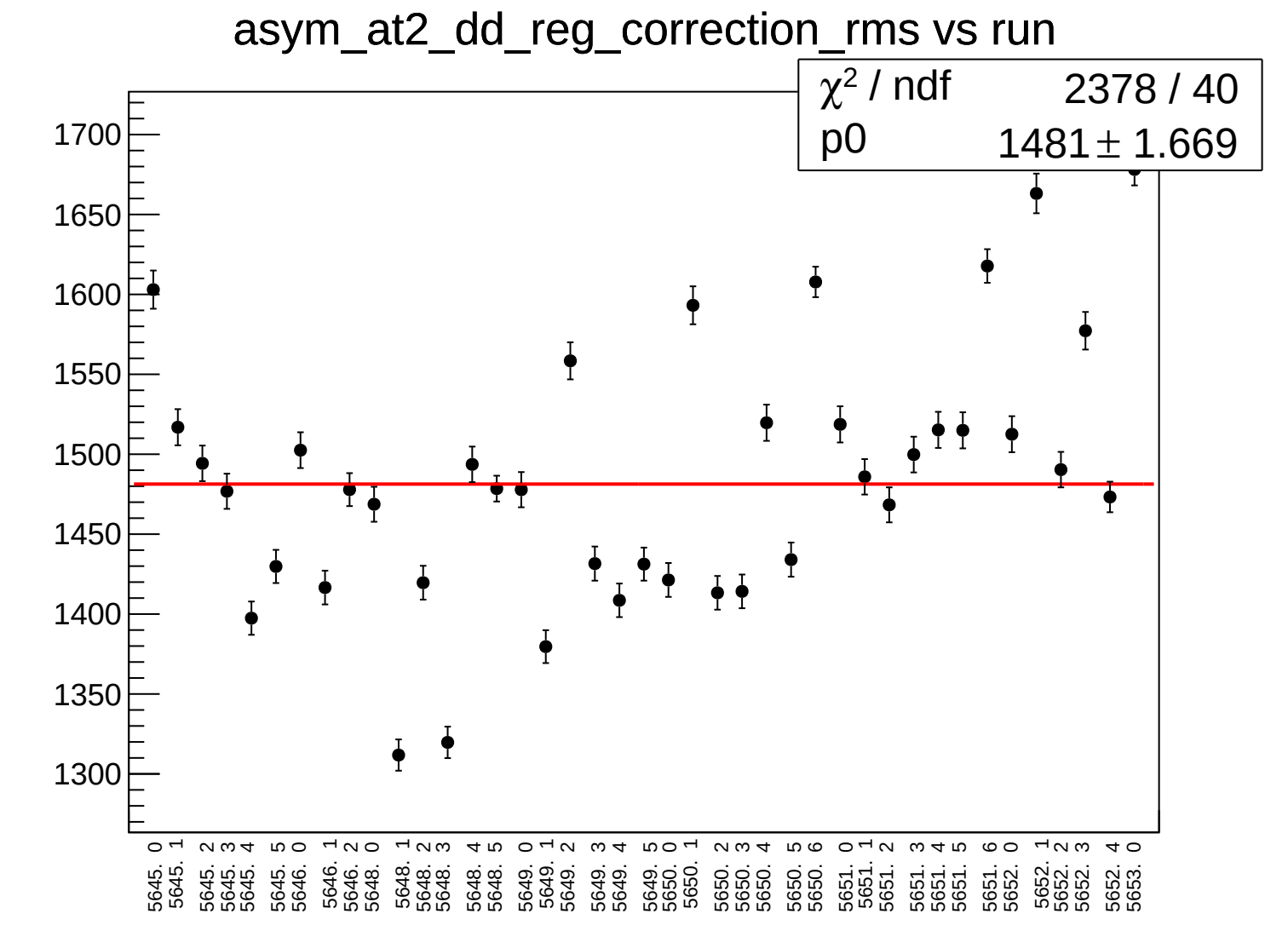

reg_asym_at2_dd_mean vs run
χ² / ndf 43.12 / 40
p0 −241.9 ± 2046
pull
Entries 41
Mean −532.5
Std Dev 0

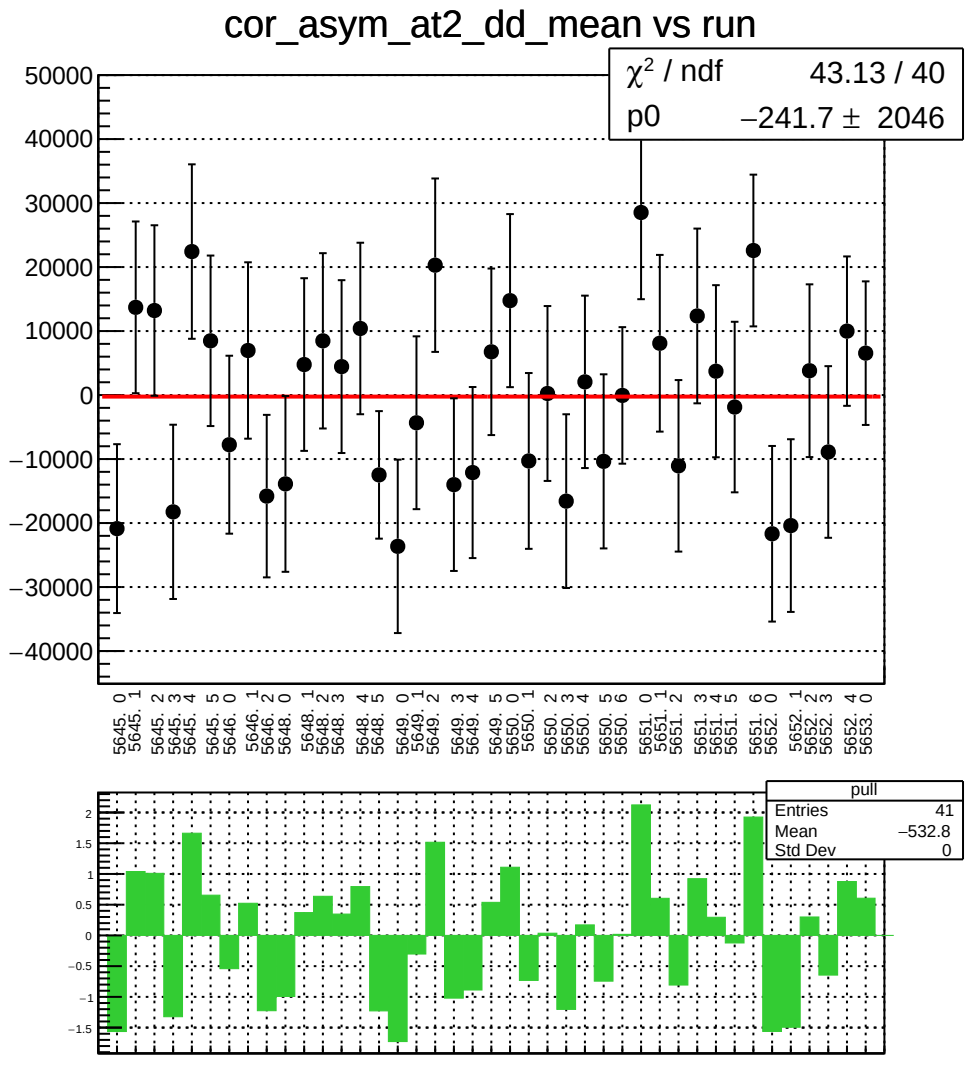

pull1D
Entries 41
Mean −0.001032
Std Dev 1.026

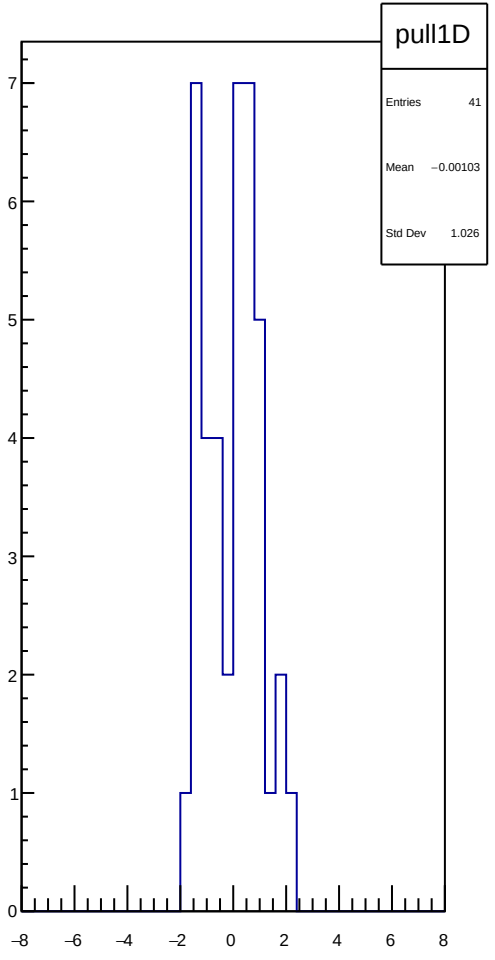

reg_asym_at2_dd_rms vs run
χ² / ndf 117.9 / 40
p0 1286 ± 1.447
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

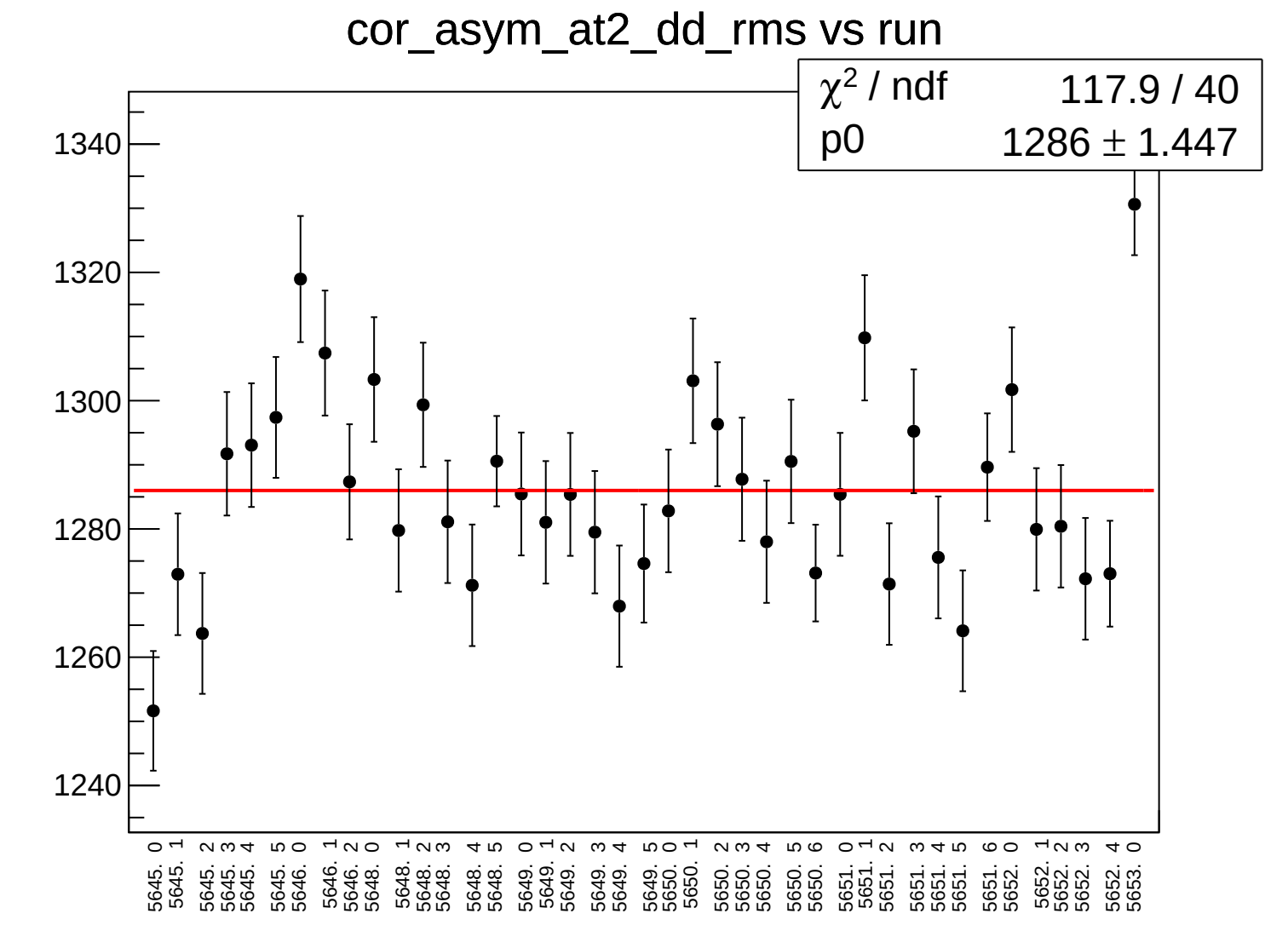

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 42.18 / 40
p0 −1671 ± 2360
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 134.8
Std Dev 0
2
1
0
−1
−2

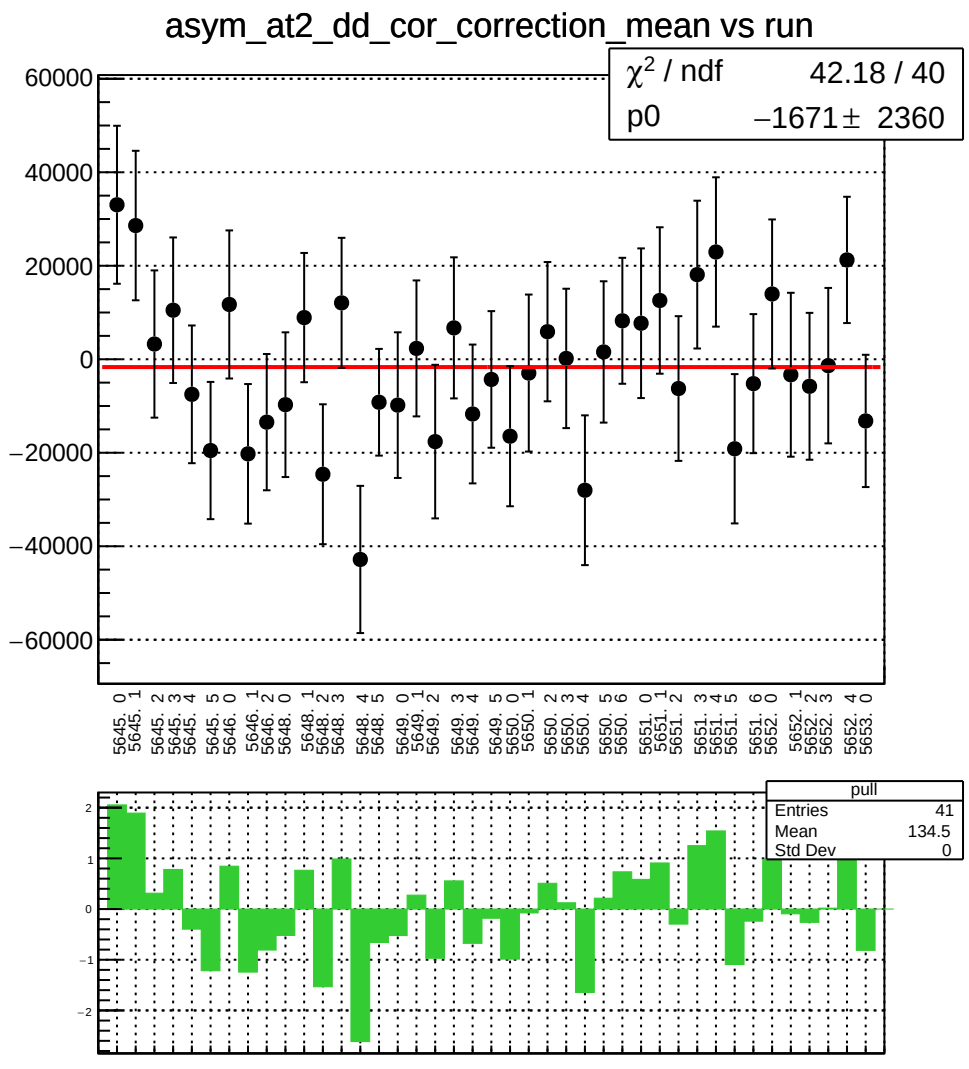

pull1D
Entries 41
Mean 0.004598
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

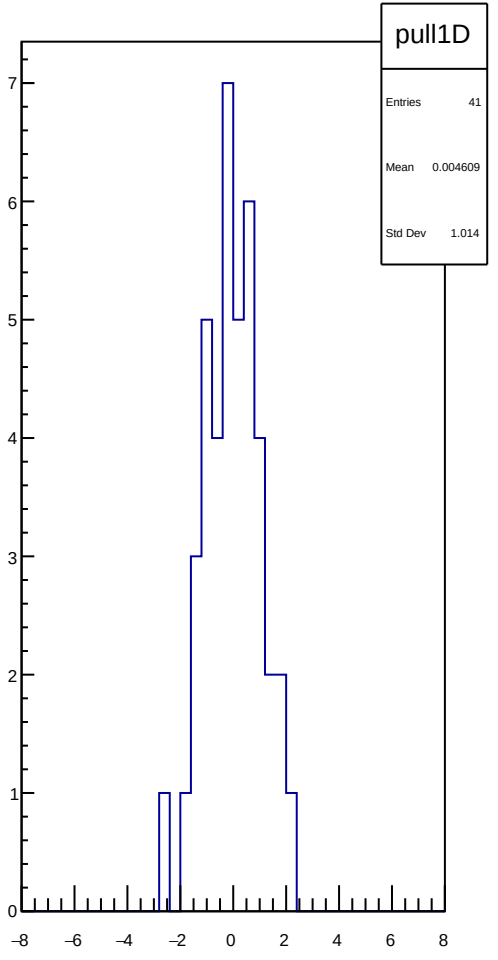

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 2378 / 40
p0 1481 ± 1.669
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

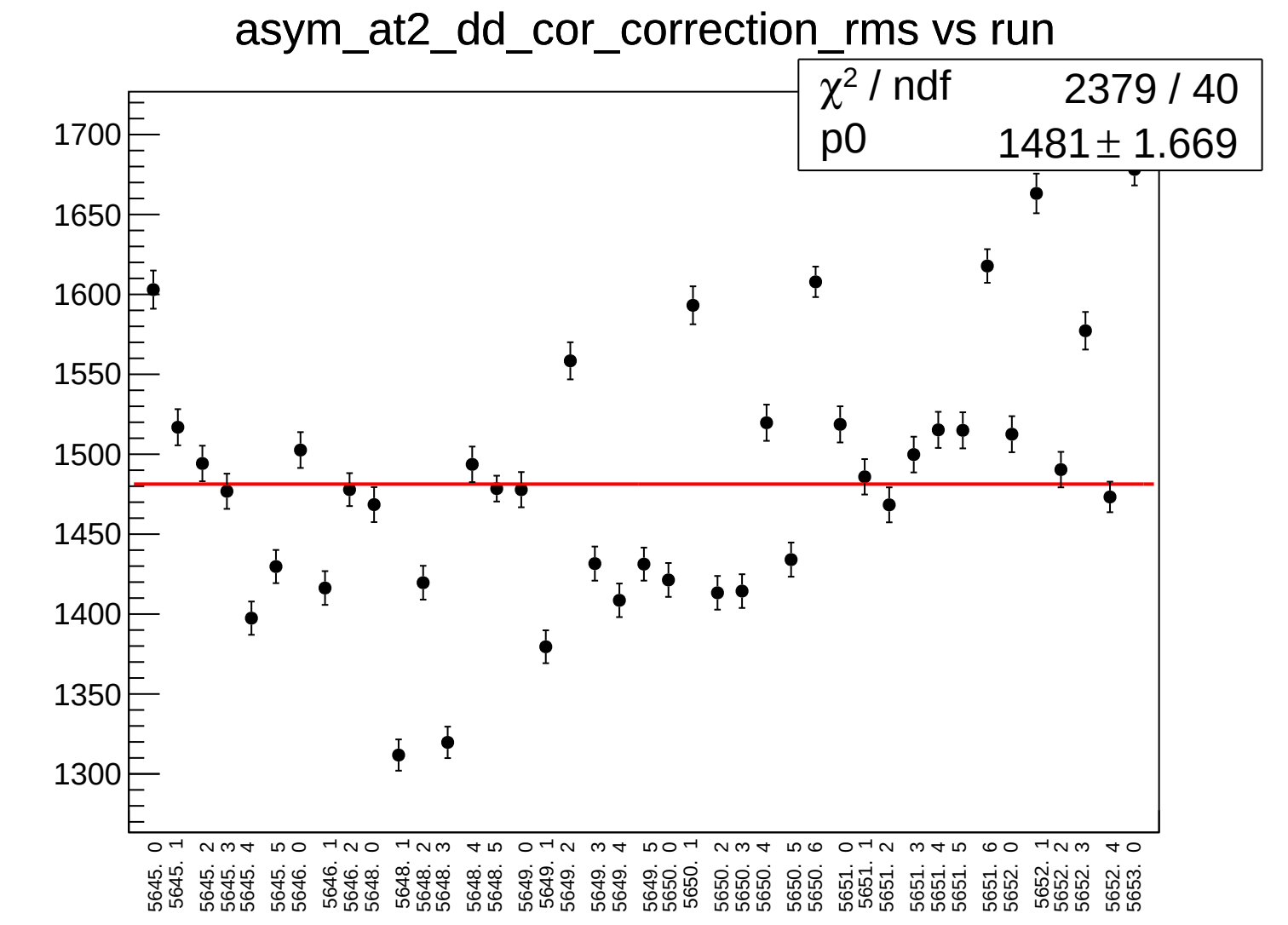

cor_asym_at2_dd_mean vs run
χ² / ndf 43.13 / 40
p0 −241.7 ± 2046
pull
Entries 41
Mean −532.8
Std Dev 0

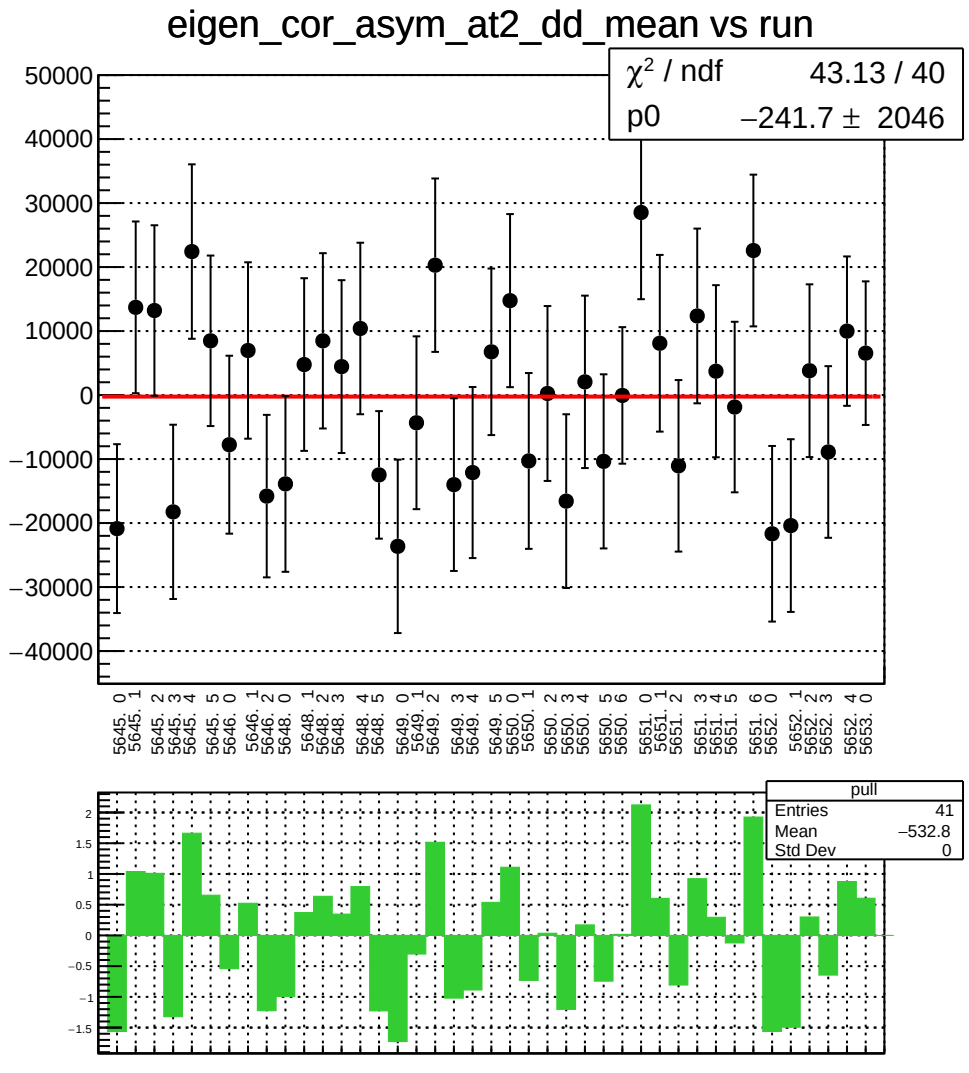

pull1D
Entries 41
Mean −0.00103
Std Dev 1.026

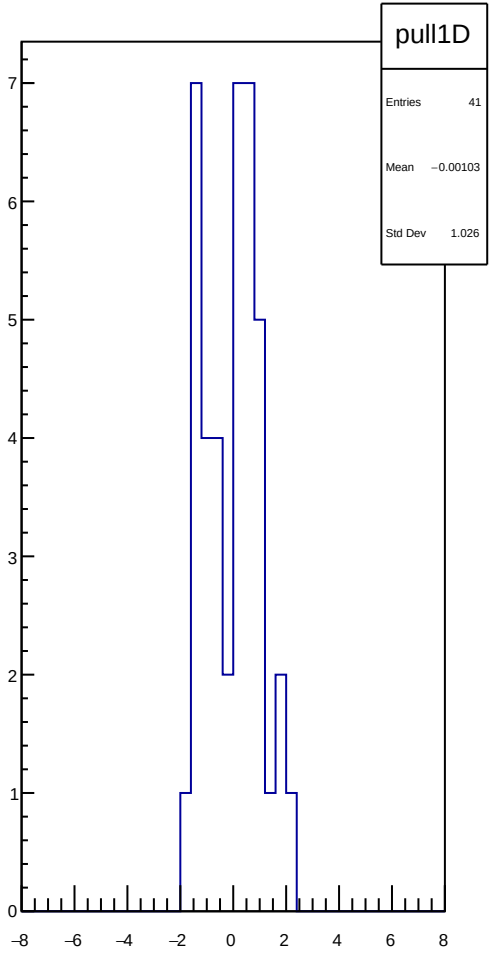

cor_asym_at2_dd_rms vs run
χ² / ndf 117.9 / 40
p0 1286 ± 1.447
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

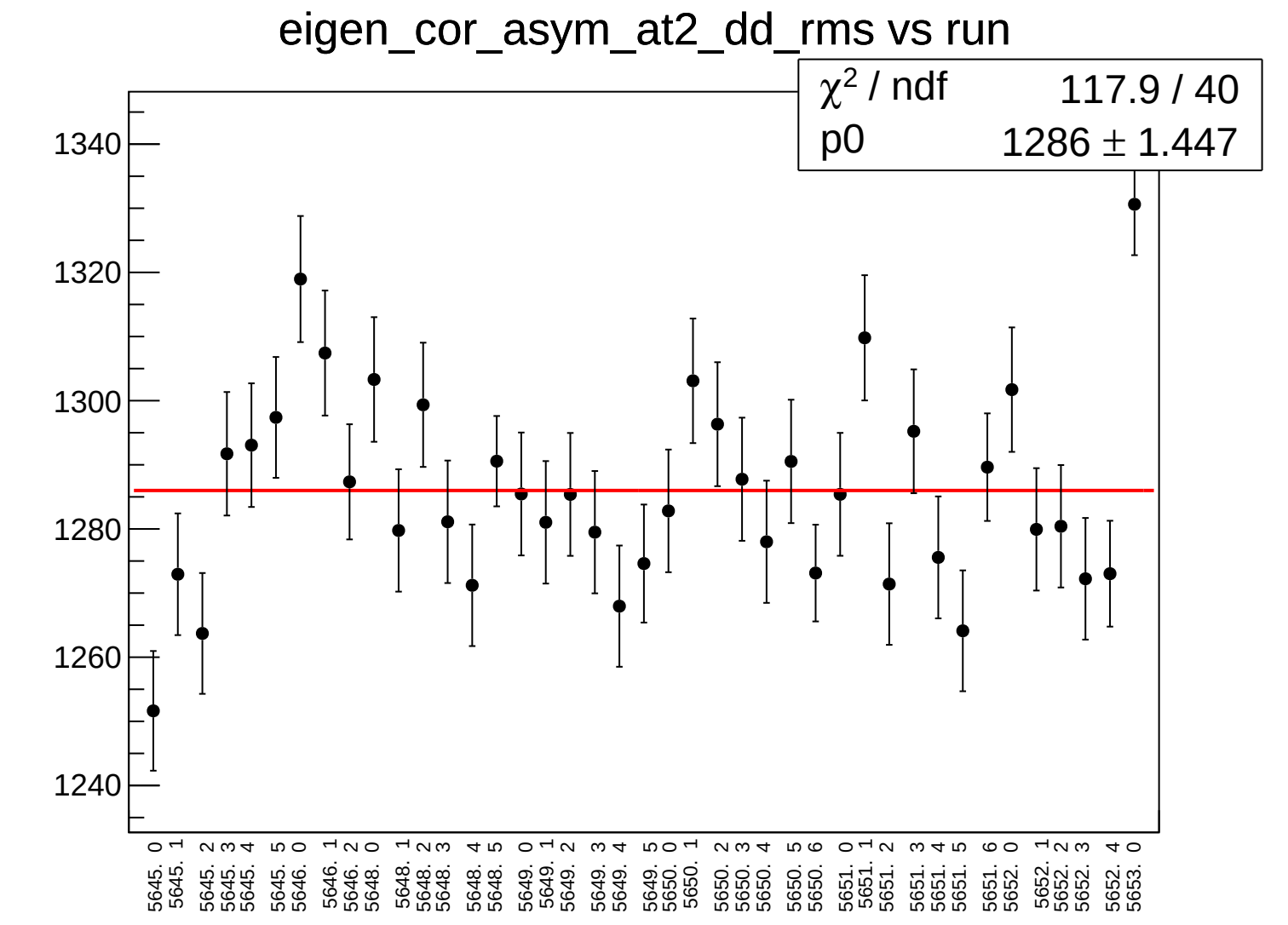

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 42.18 / 40
p0 −1671 ± 2360
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 134.5
Std Dev 0
2
1
0
−1
−2

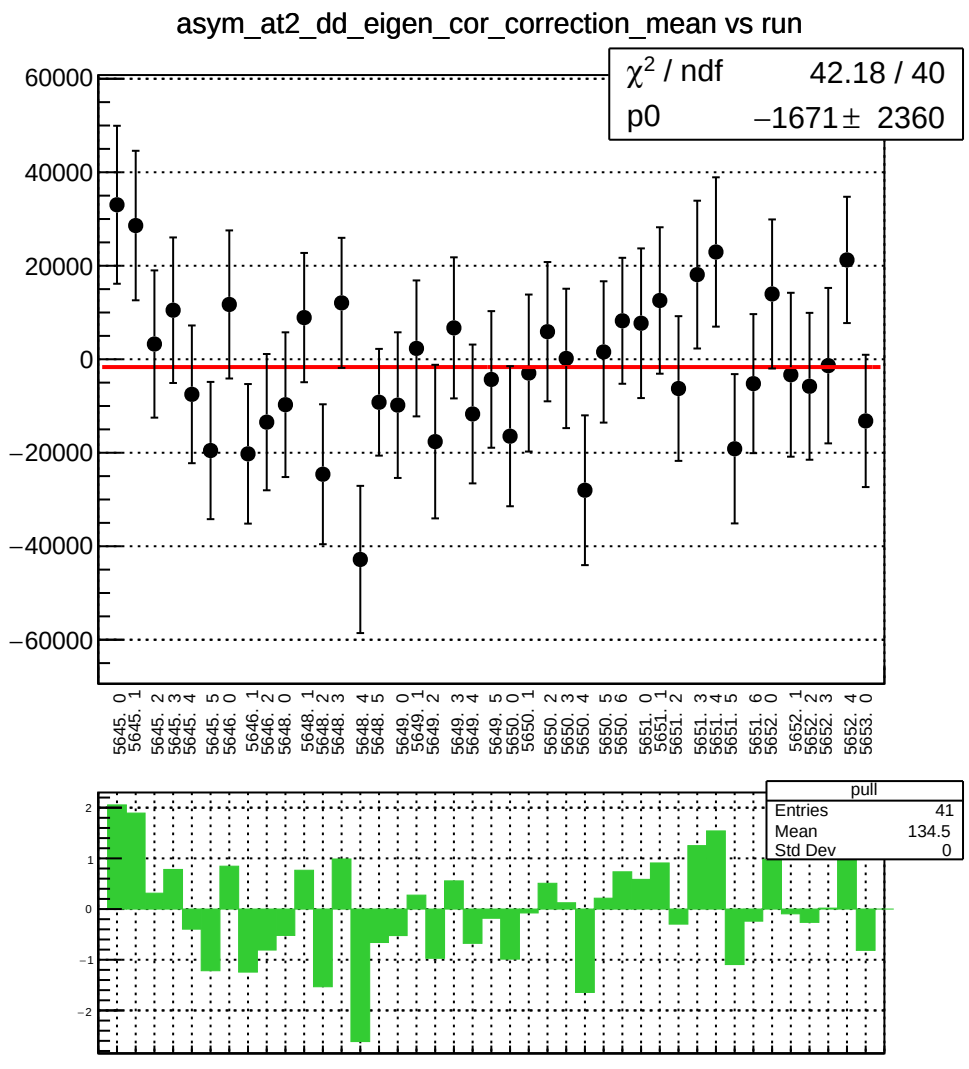

pull1D
Entries 41
Mean 0.004609
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

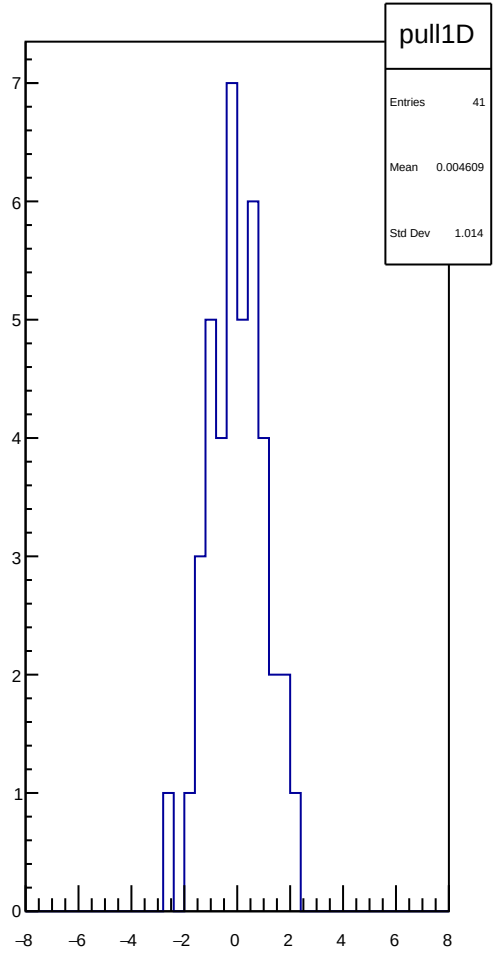

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 2379 / 40
p0 1481 ± 1.669
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

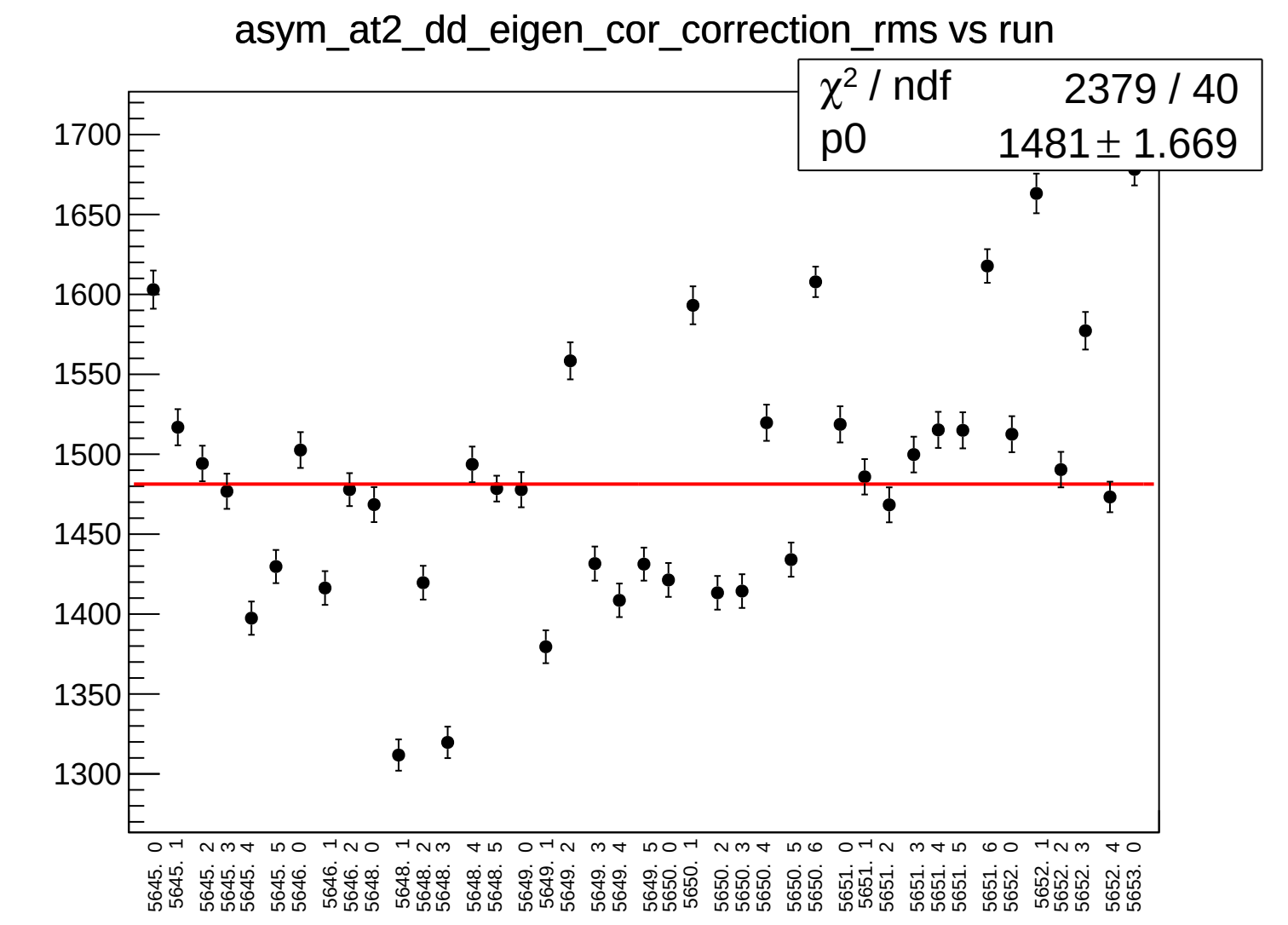

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 43.13 / 40
p0 −241.7 ± 2046
pull
Entries 41
Mean −532.8
Std Dev 0

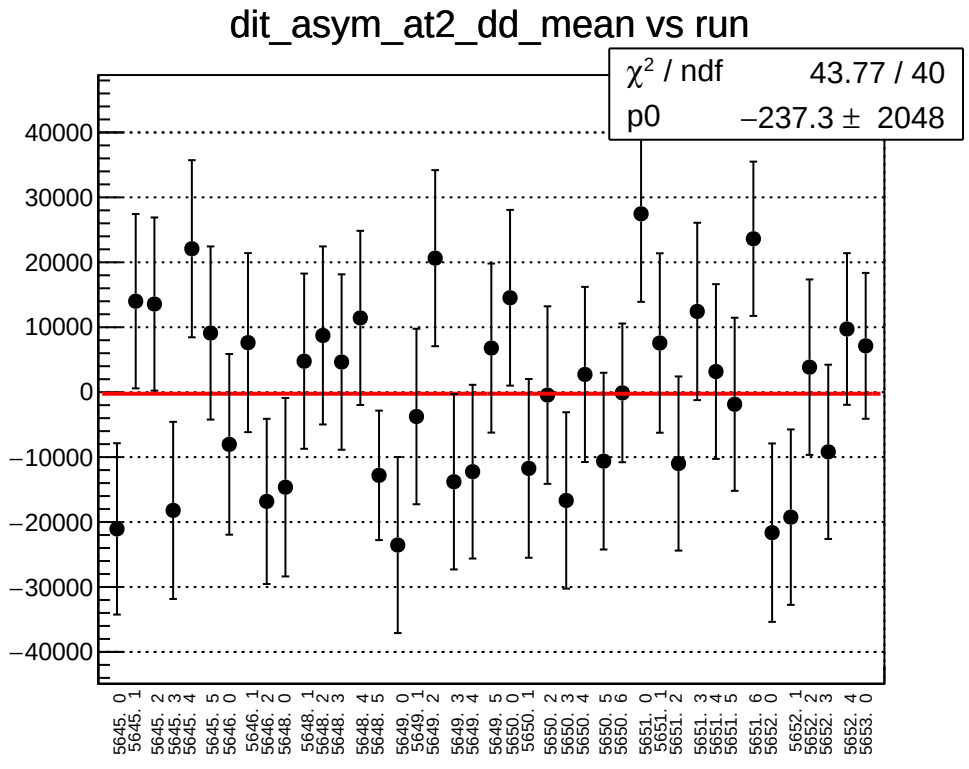

pull1D
Entries 41
Mean −0.00103
Std Dev 1.026

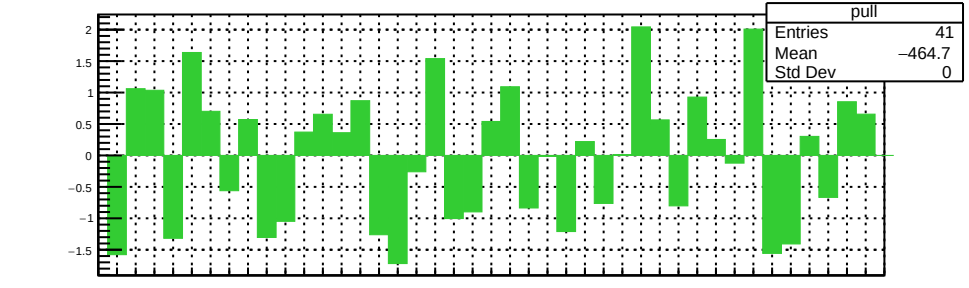

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 117.9 / 40
p0 1286 ± 1.447
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

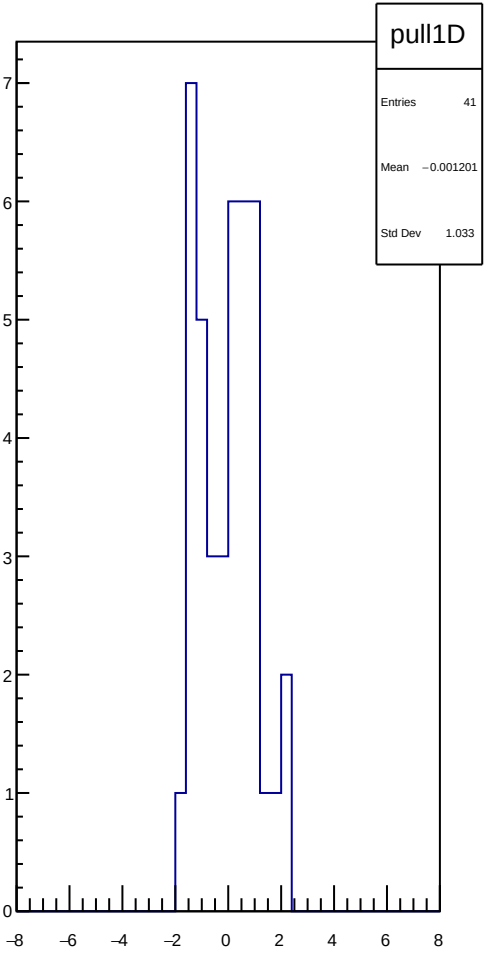

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.18 / 40
p0 −1671 ± 2360
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 134.5
Std Dev 0
2
1
0
−1
−2

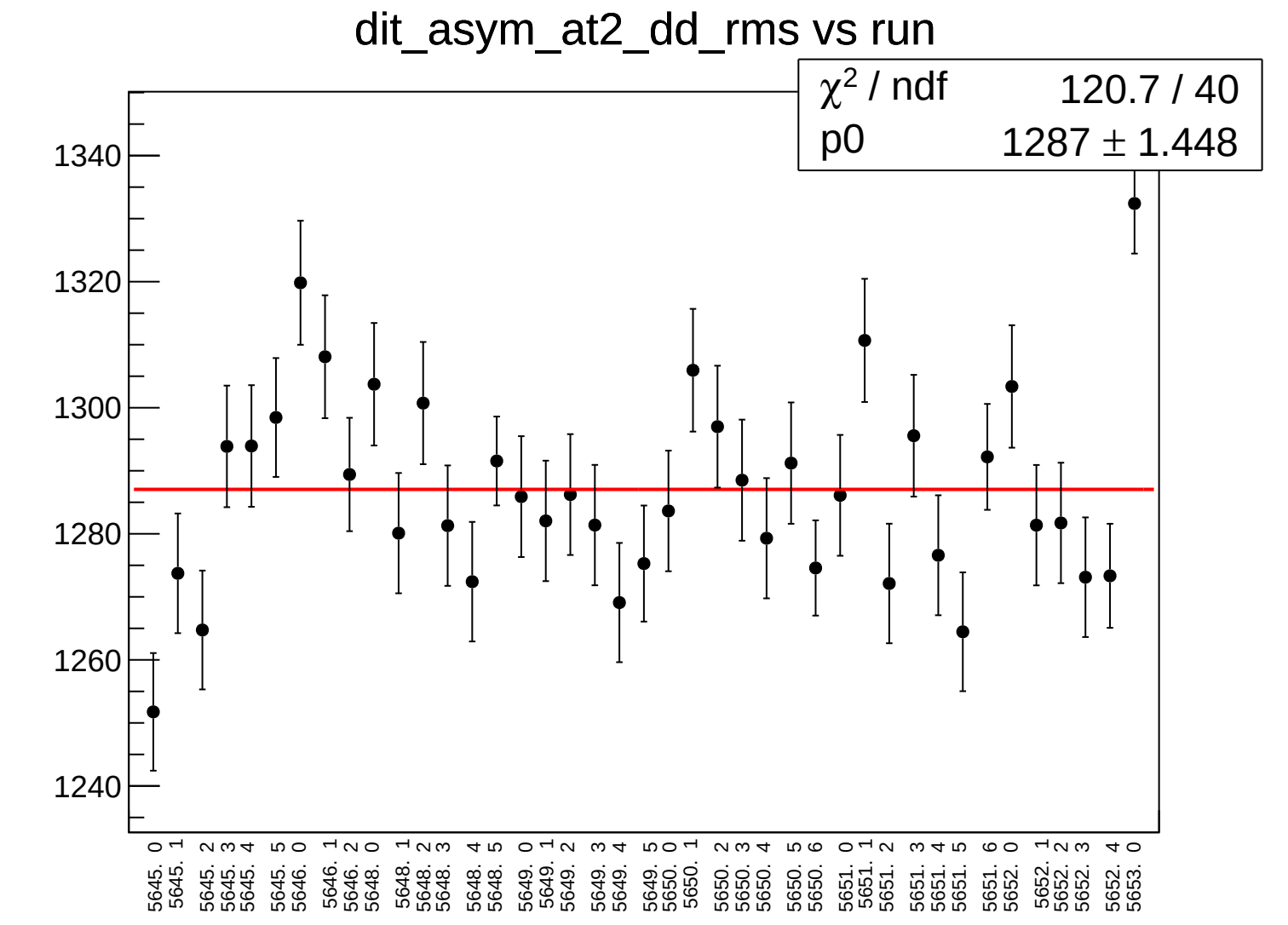

pull1D
Entries 41
Mean 0.004609
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

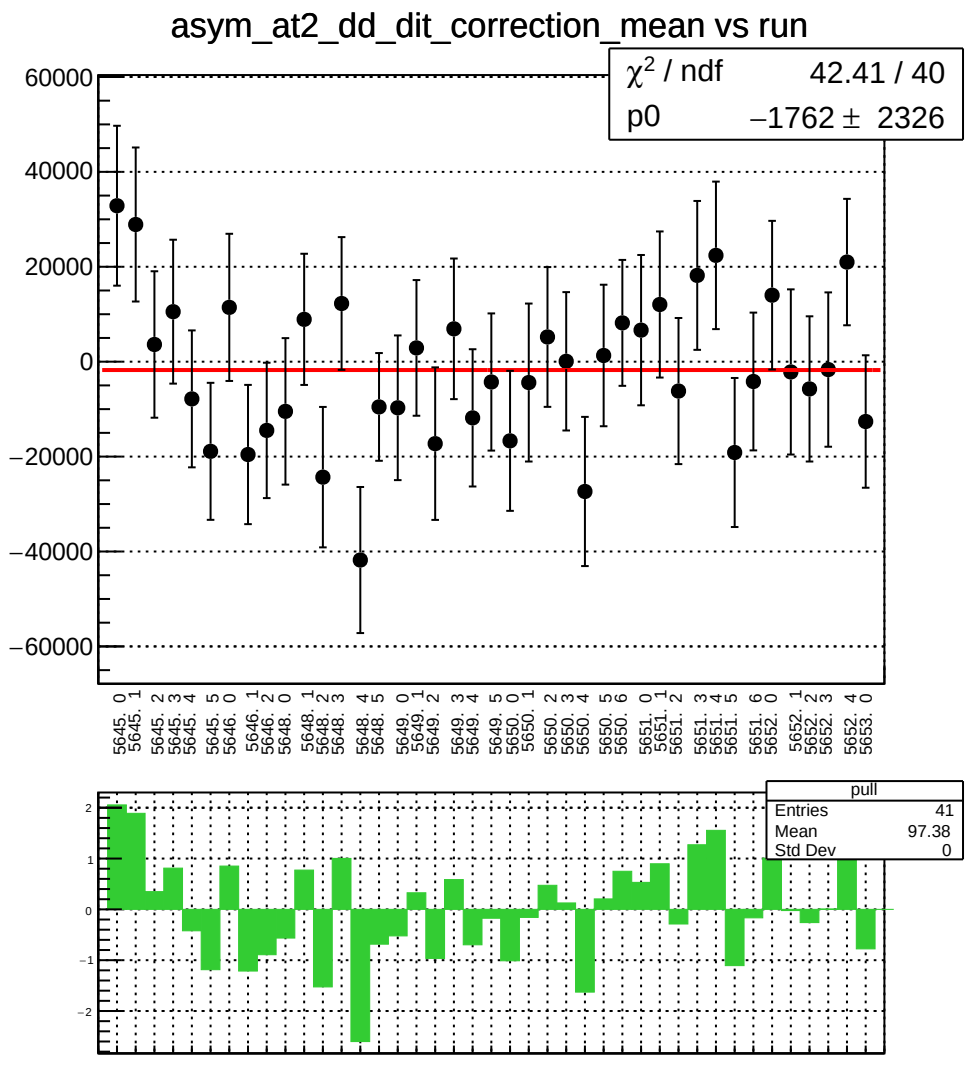

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2379 / 40
p0 1481 ± 1.669
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

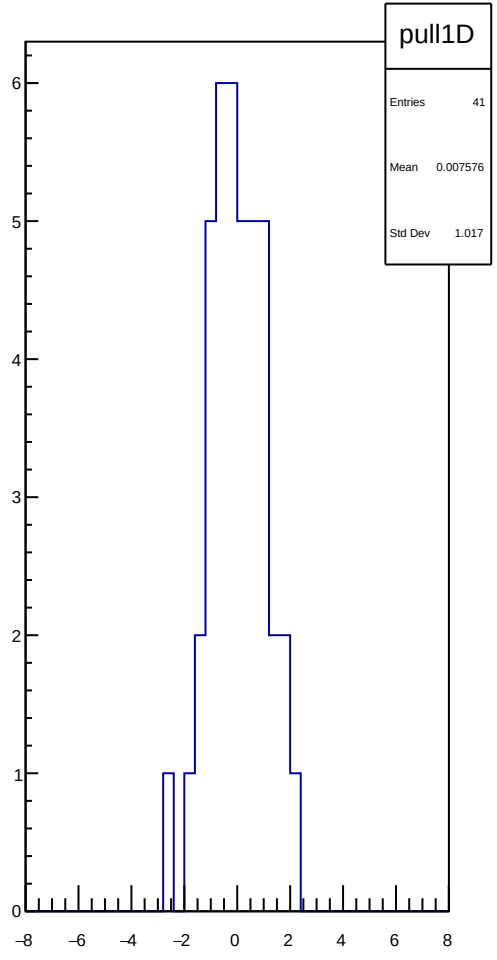

dit_asym_at2_dd_mean vs run
χ² / ndf 43.77 / 40
p0 −237.3 ± 2048
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

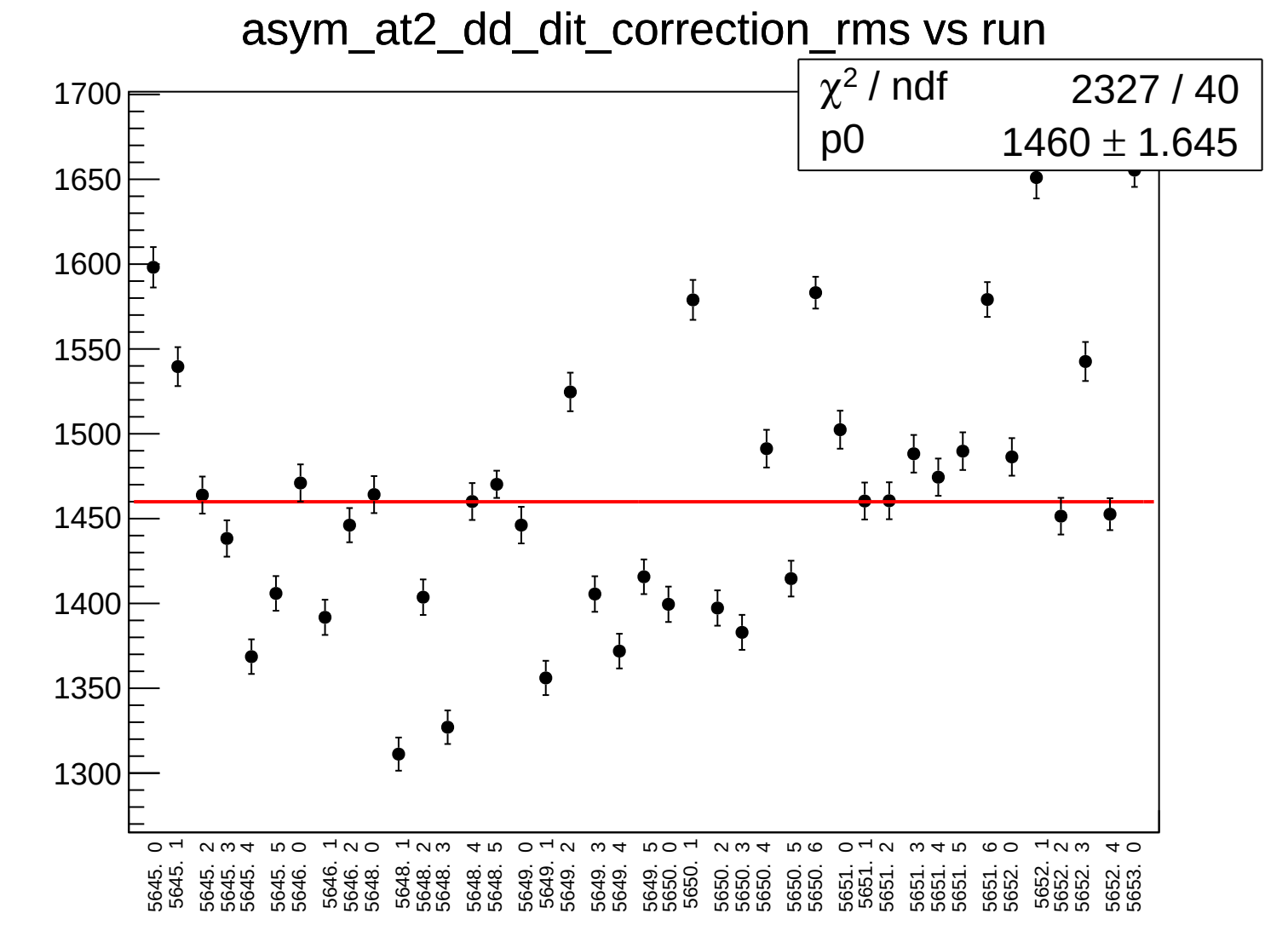

pull
Entries 41
Mean −464.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

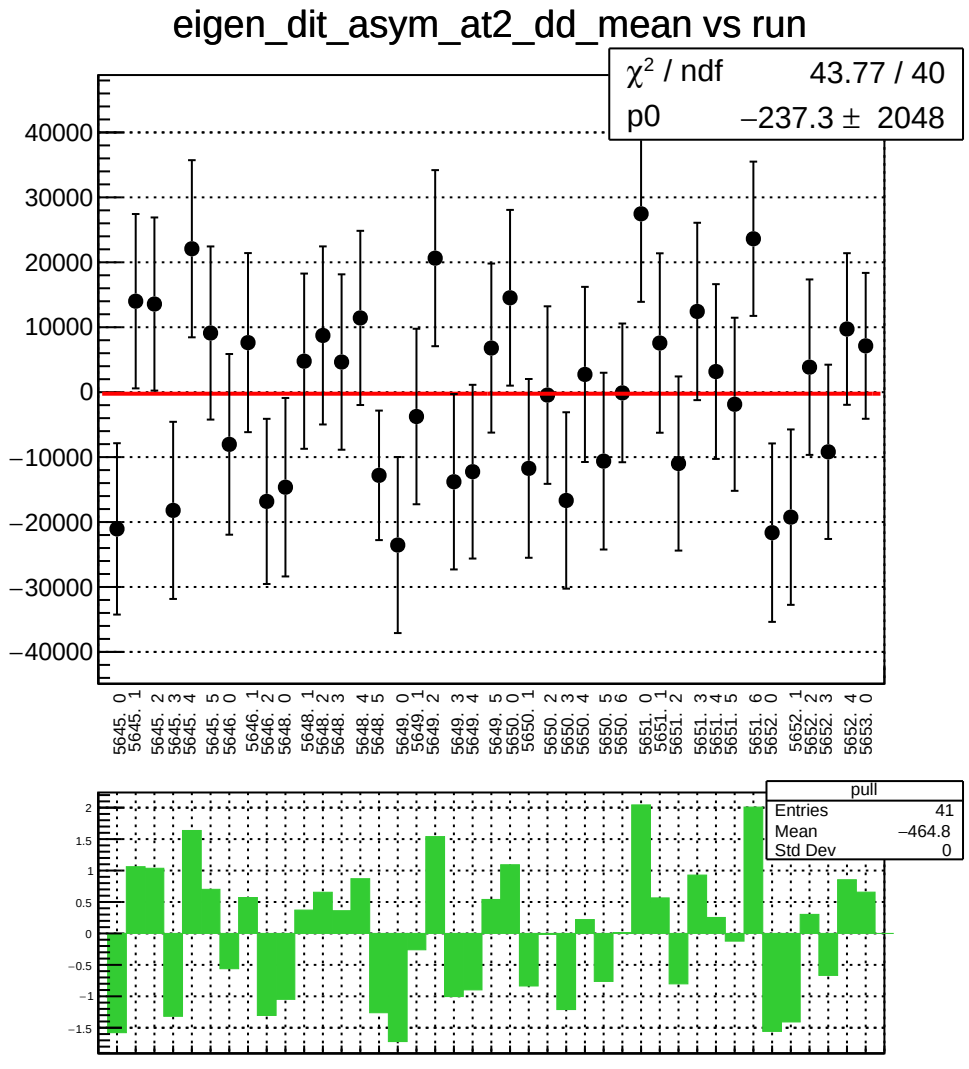

pull1D
Entries 41
Mean −0.001201
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

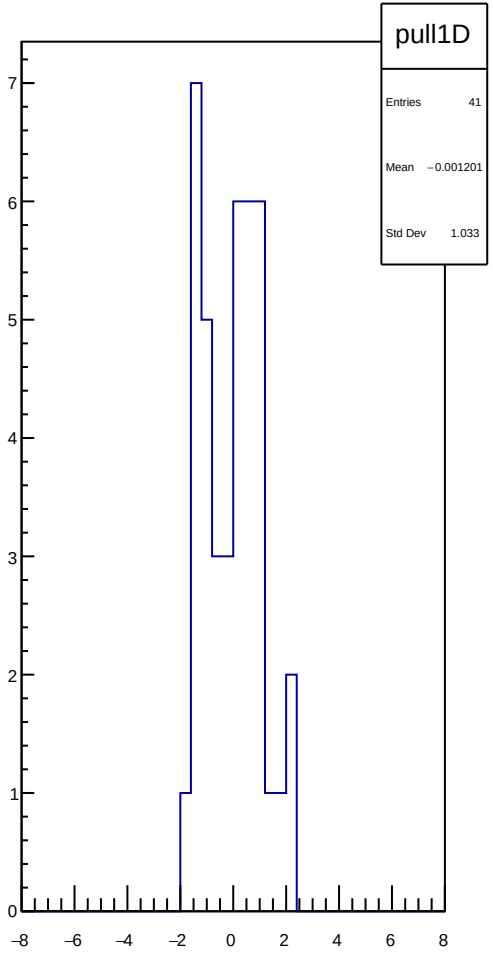

dit_asym_at2_dd_rms vs run
χ² / ndf 120.7 / 40
p0 1287 ± 1.448
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

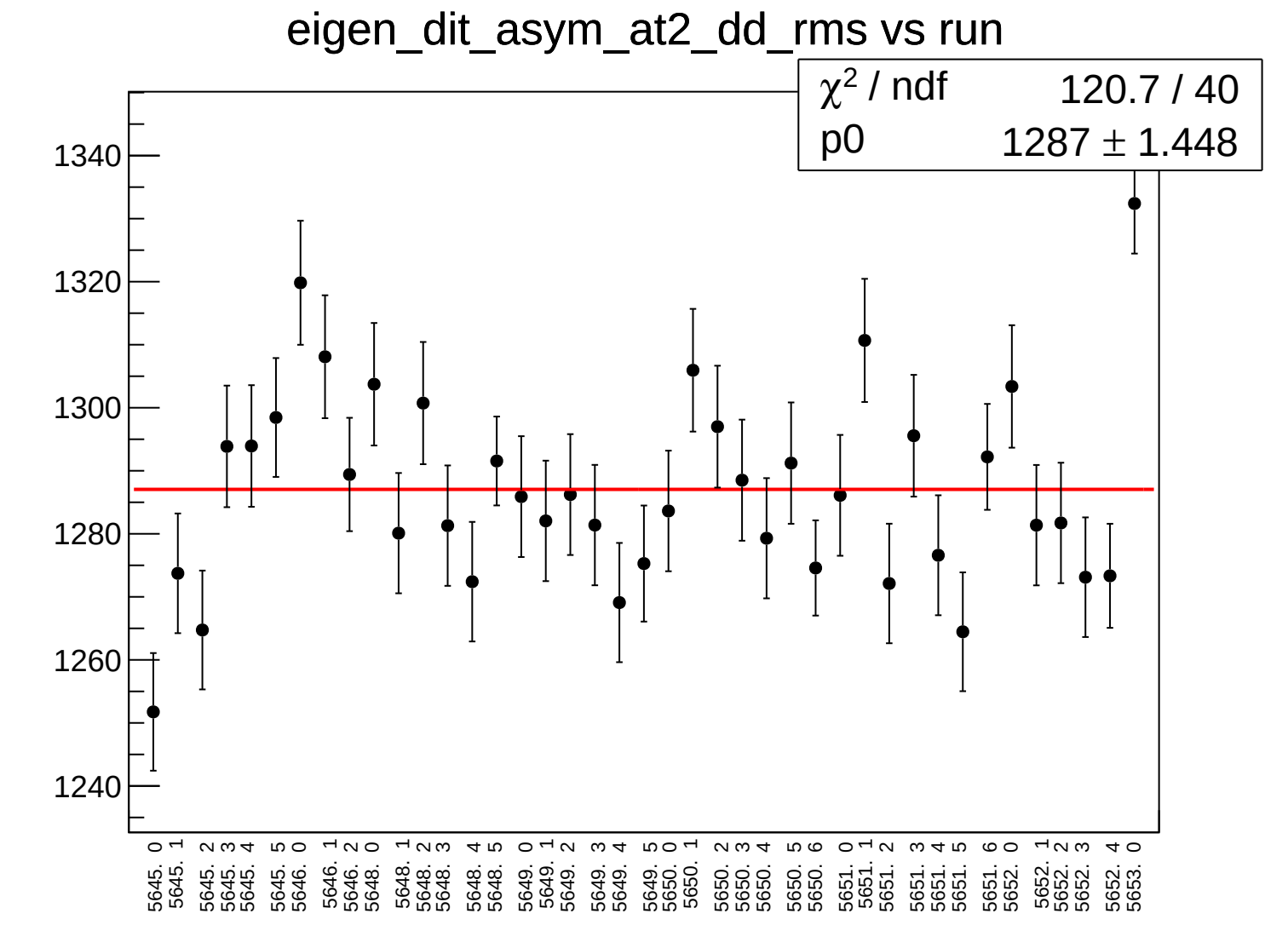

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 42.41 / 40
p0 −1762 ± 2326
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 97.38
Std Dev 0
2
1
0
−1
−2

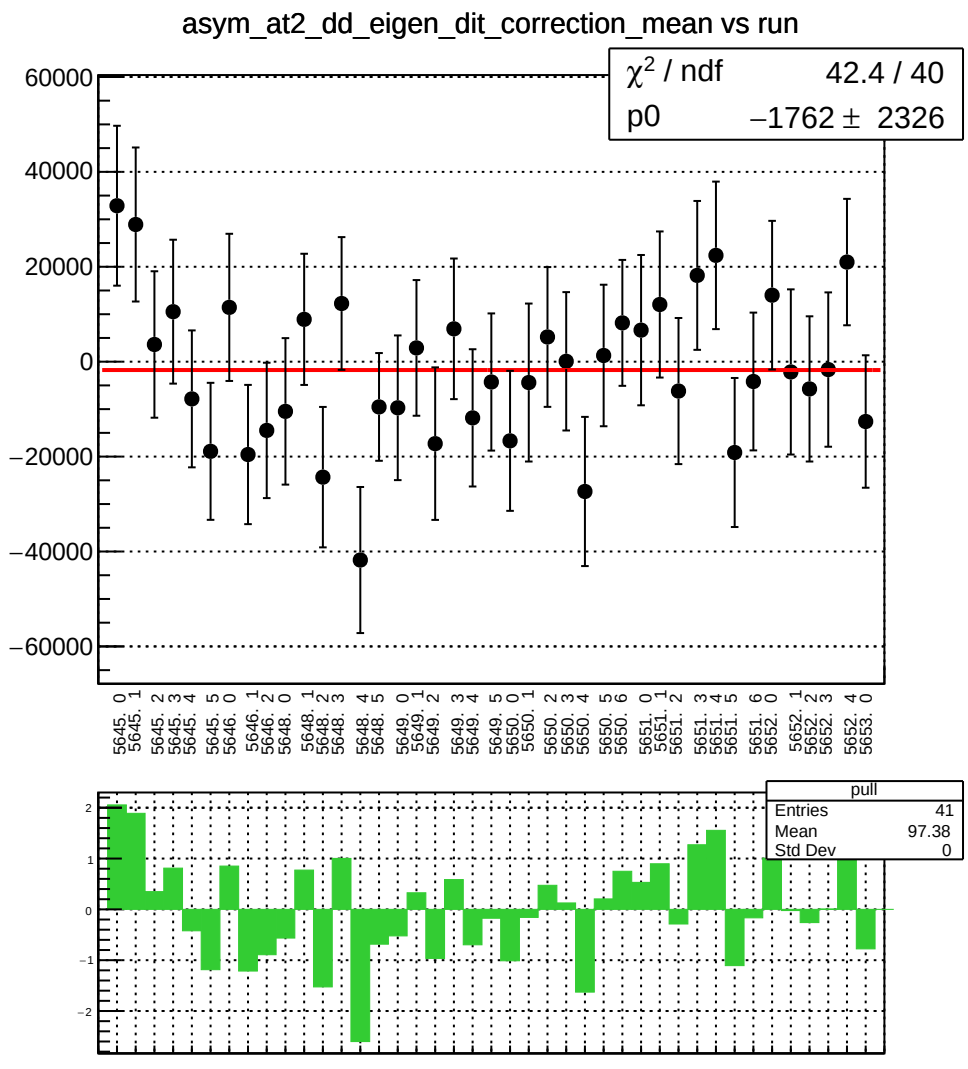

pull1D
Entries 41
Mean 0.007576
Std Dev 1.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

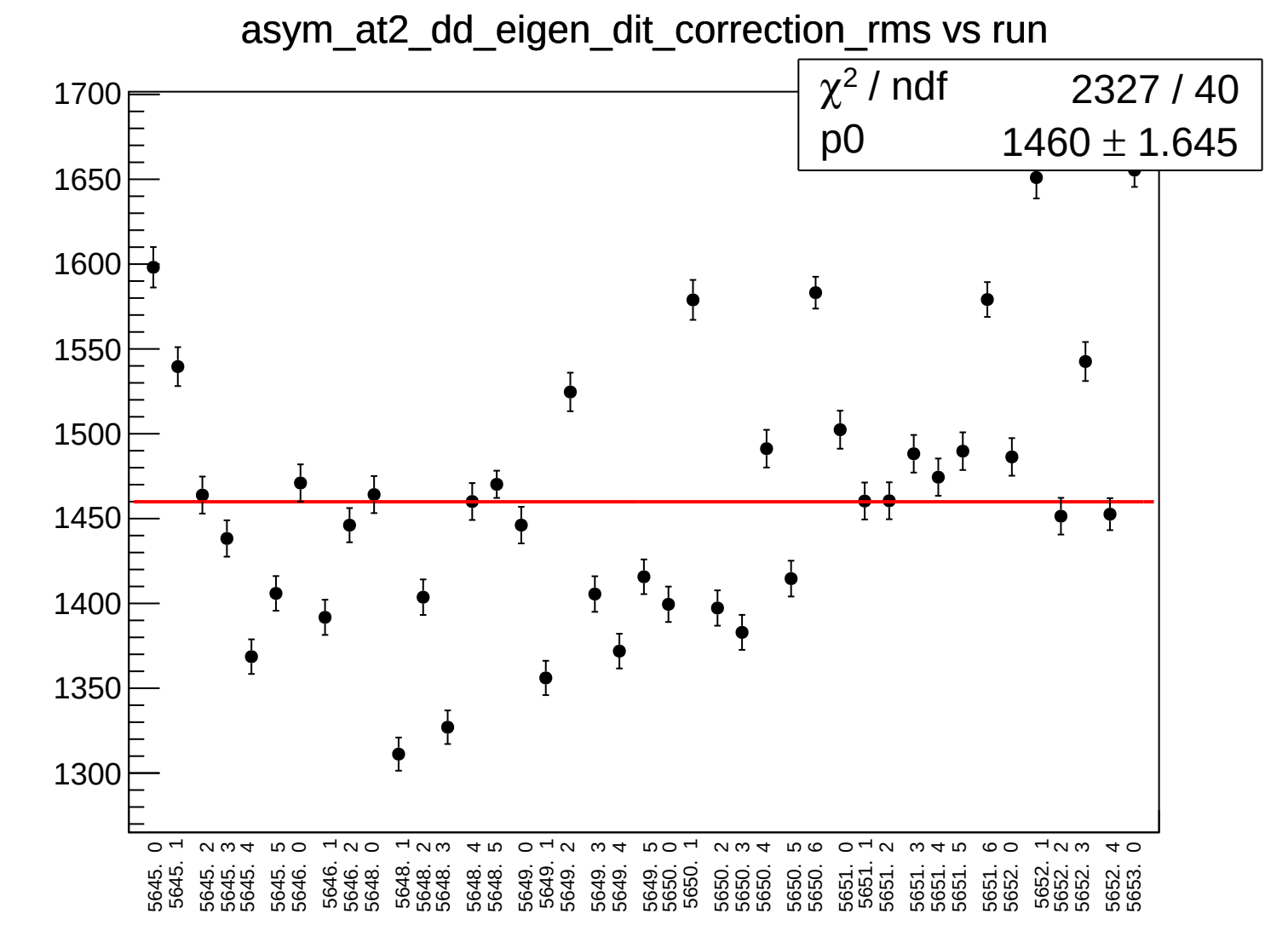

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2327 / 40
p0 1460 ± 1.645
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

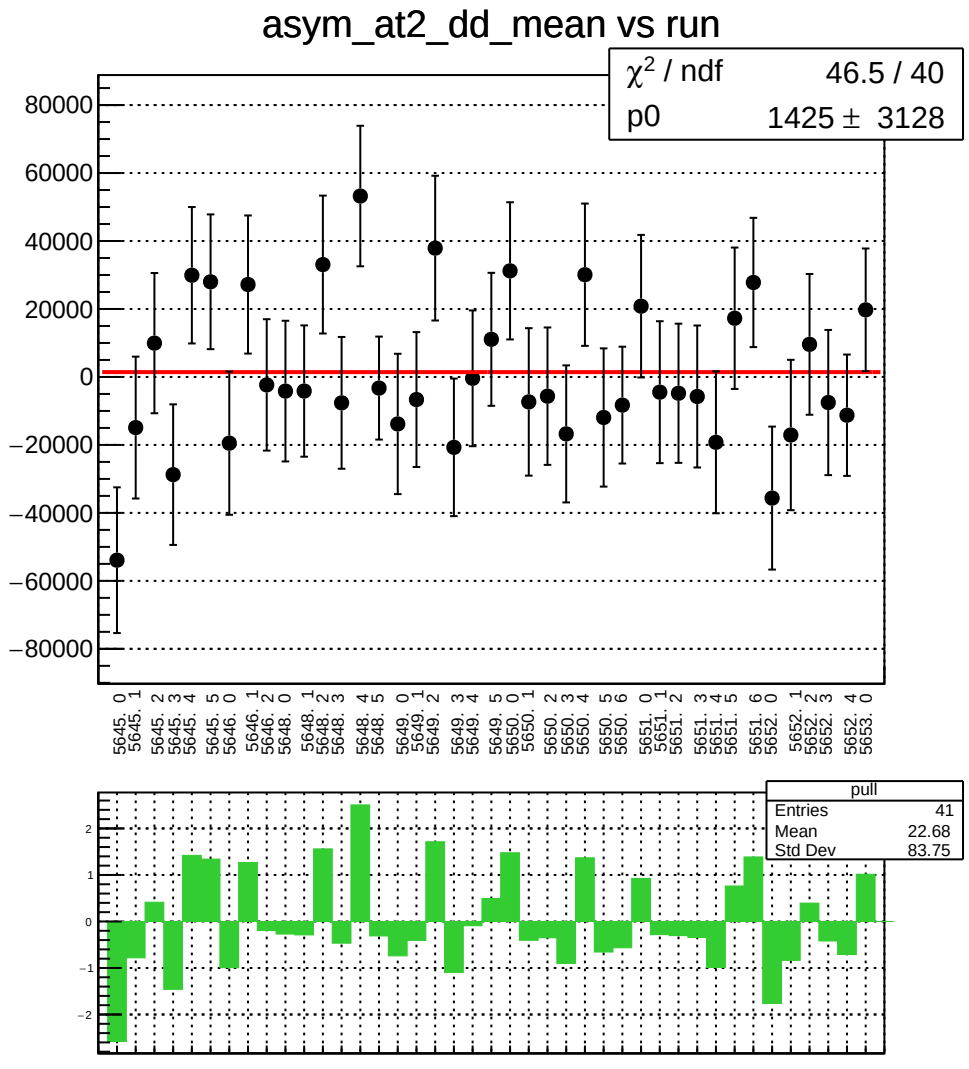

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 43.77 / 40
p0 −237.3 ± 2048
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −464.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

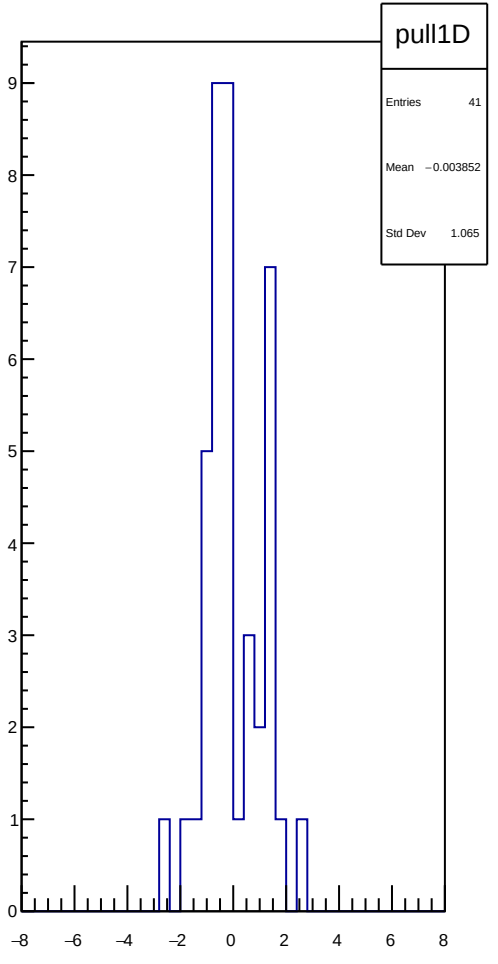

pull1D
Entries 41
Mean −0.001201
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

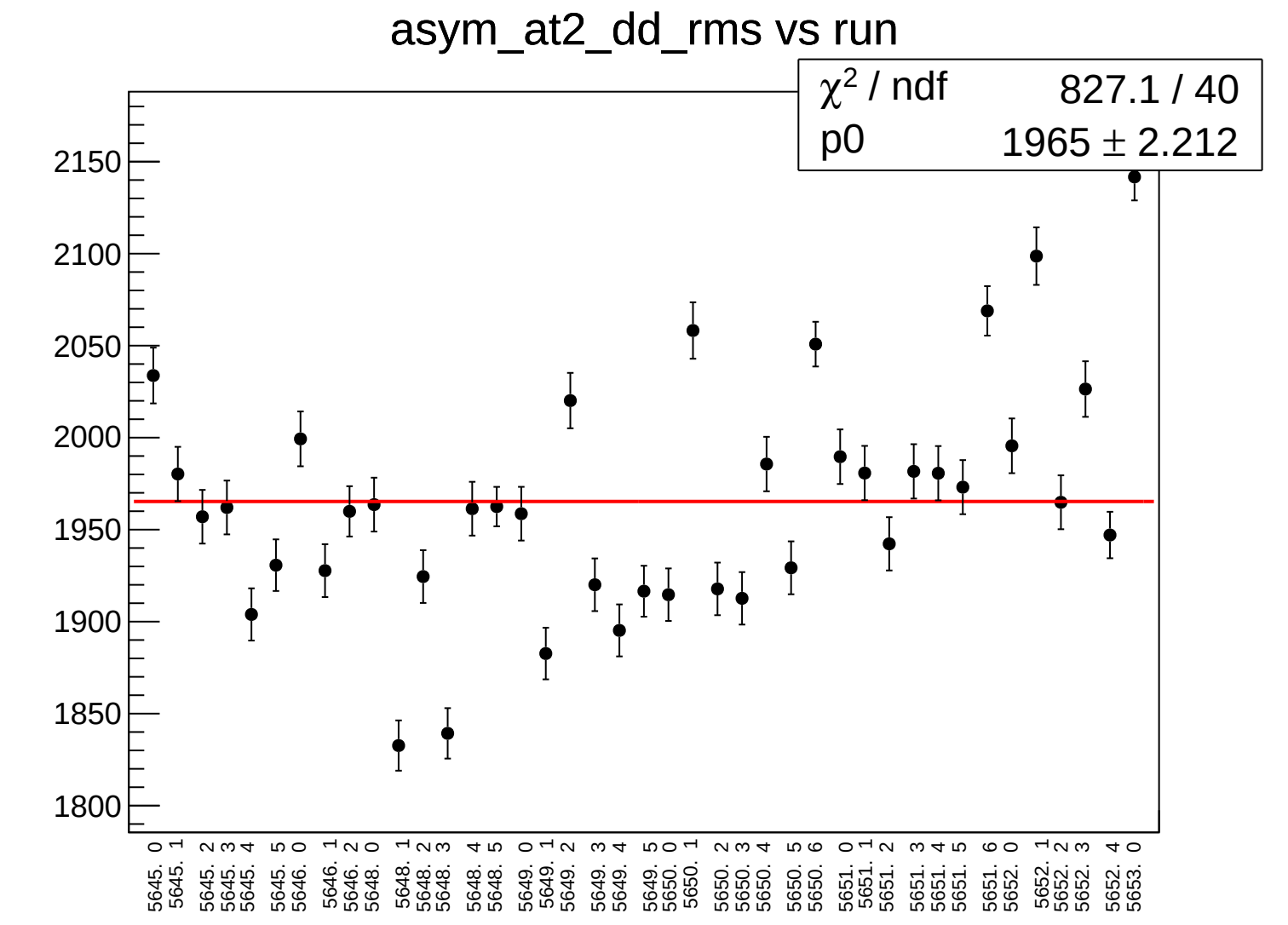

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 120.7 / 40
p0 1287 ± 1.448
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

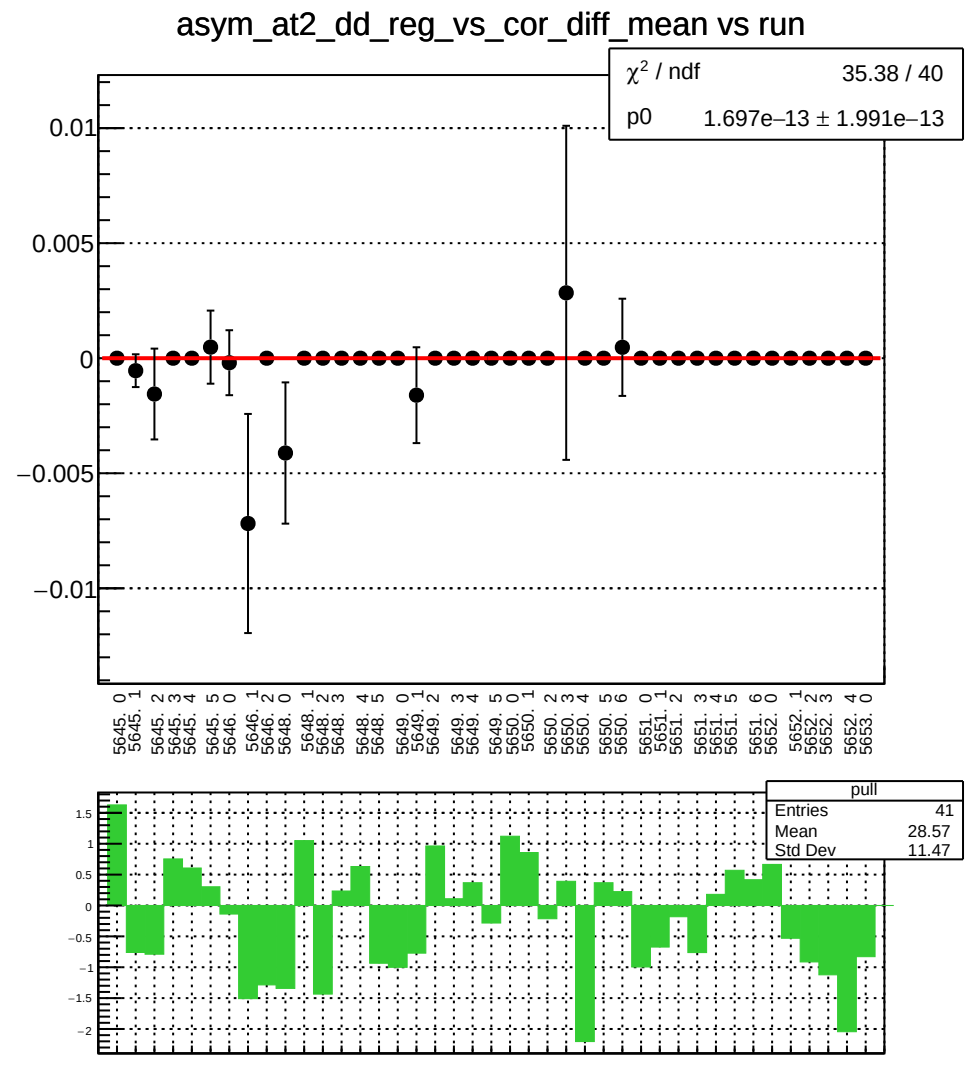

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.4 / 40
p0 −1762 ± 2326
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 97.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.007576
Std Dev 1.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

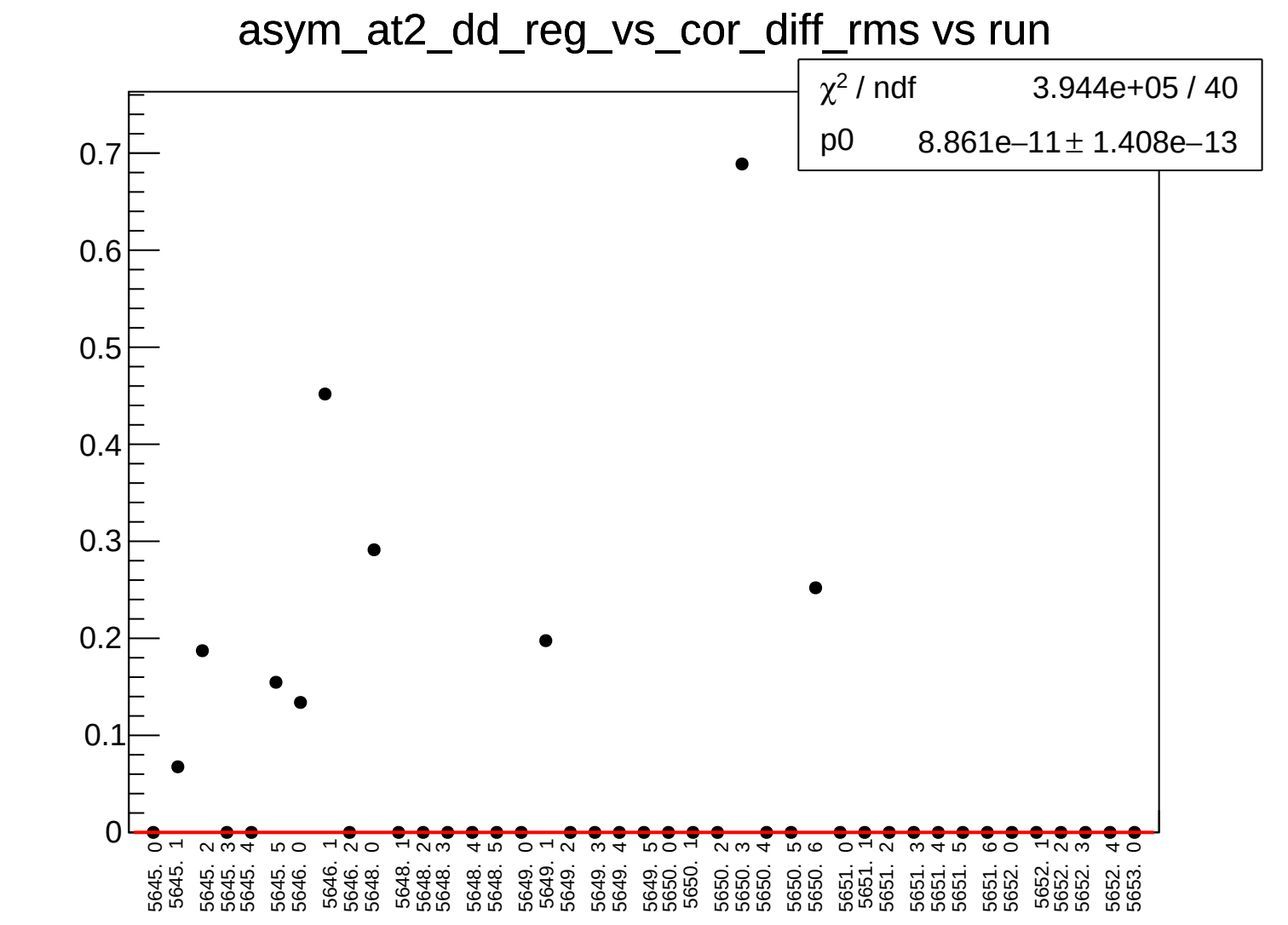

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2327 / 40
p0 1460 ± 1.645
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

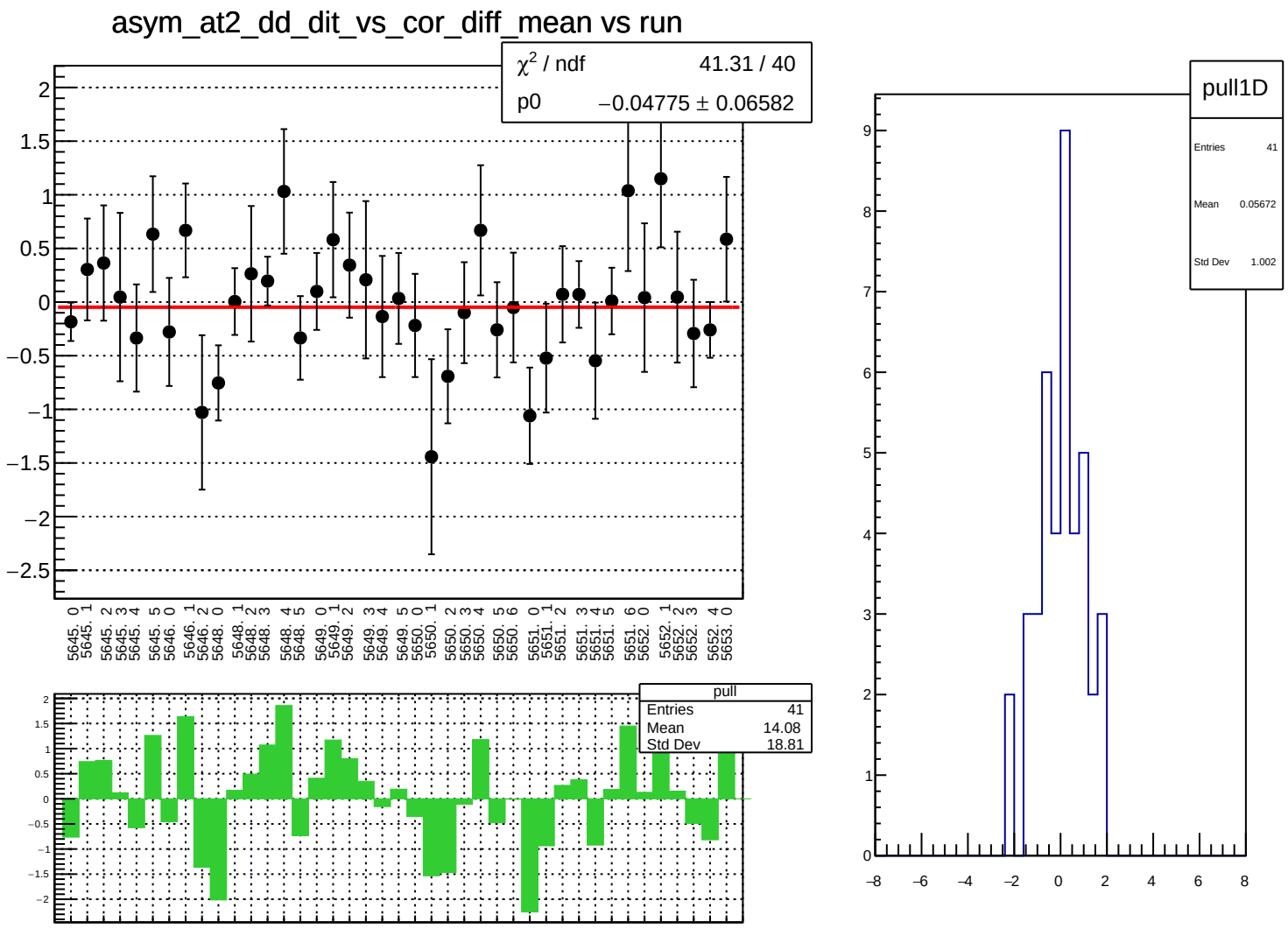

asym_at2_dd_mean vs run
χ² / ndf 46.5 / 40
p0 1425 ± 3128
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.68
Std Dev 83.75
2
1
0
−1
−2

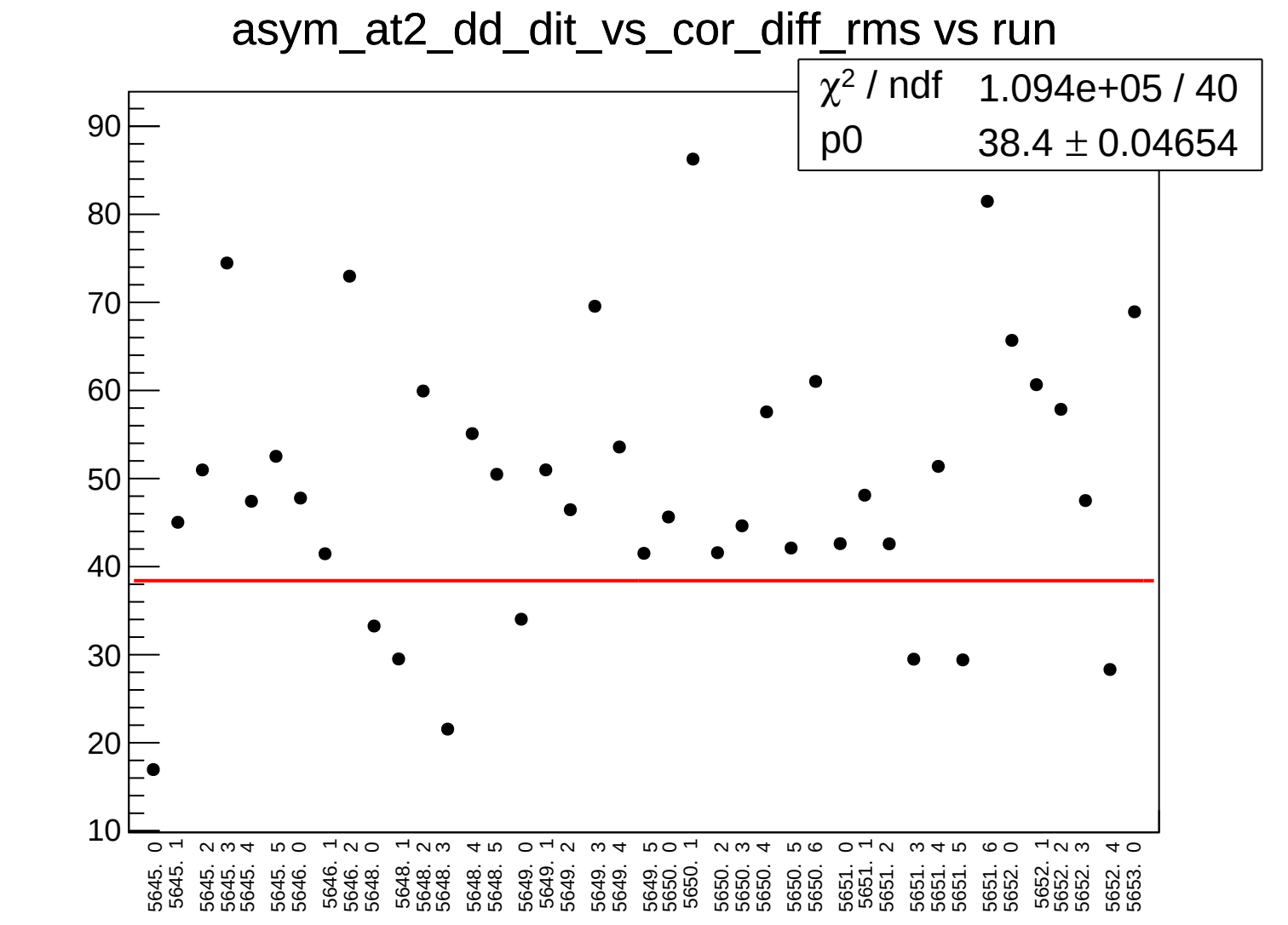

pull1D
Entries 41
Mean −0.003852
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_rms vs run
χ² / ndf 827.1 / 40
p0 1965 ± 2.212
2150
2100
2050
2000
1950
1900
1850
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

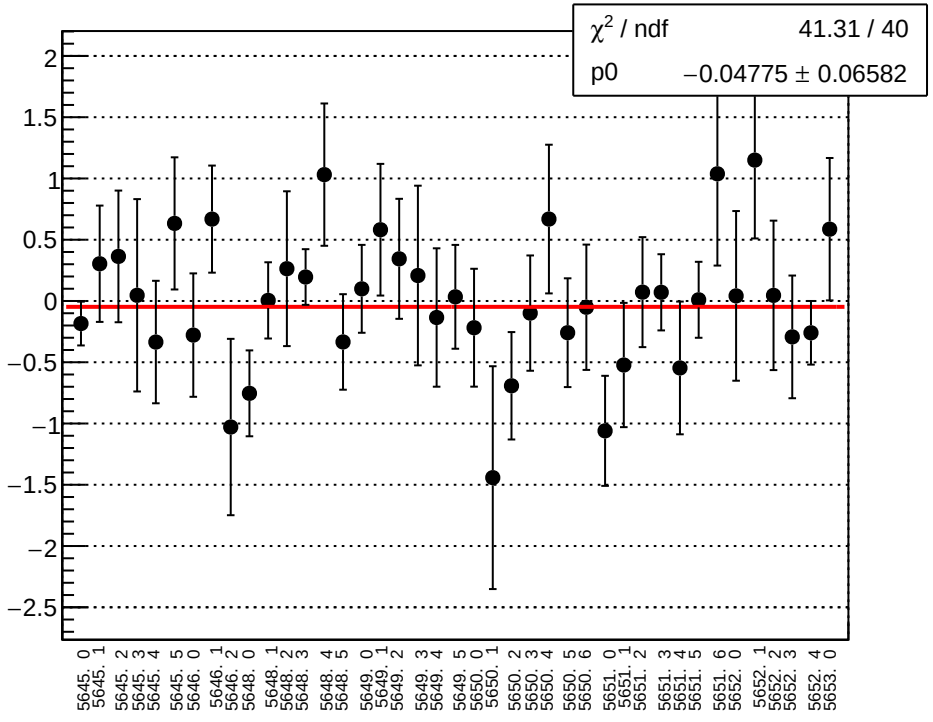

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.38 / 40
p0 1.697e−13 ± 1.991e−13
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.57
Std Dev 11.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.2263
Std Dev 0.901
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

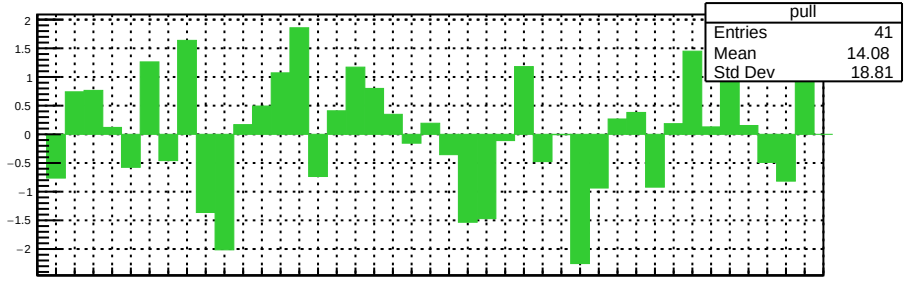

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.944e+05 / 40
p0 8.861e−11 ± 1.408e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

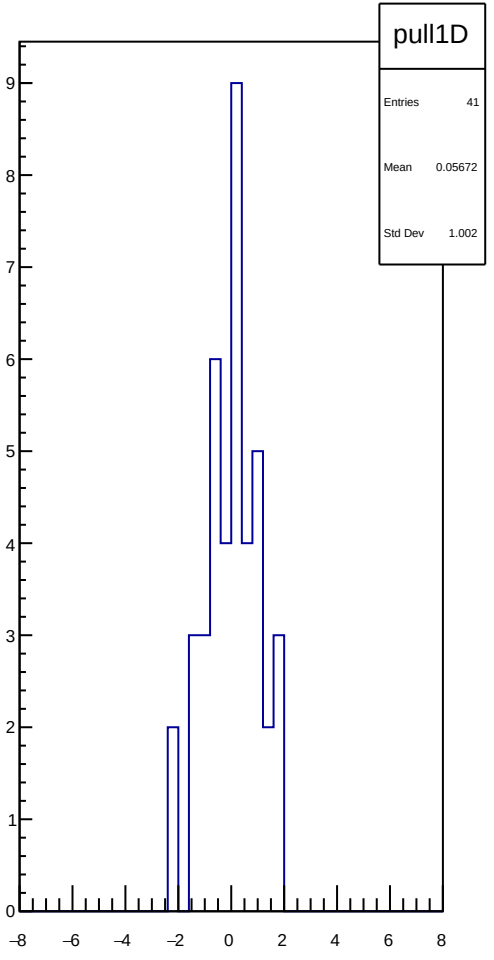

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.31 / 40
p0 −0.04775 ± 0.06582
pull
Entries 41
Mean 14.08
Std Dev 18.81
pull1D
Entries 41
Mean 0.05672
Std Dev 1.002

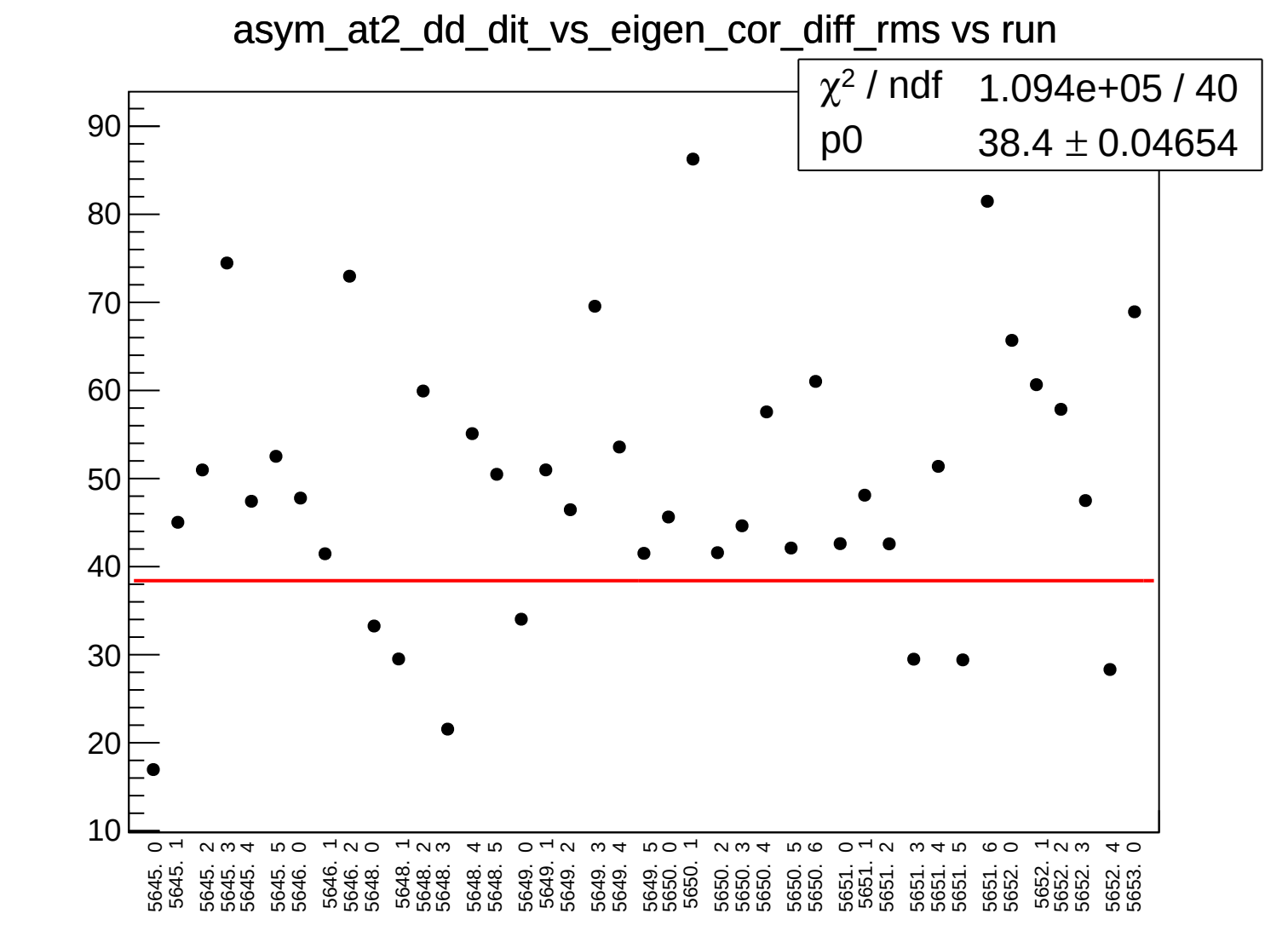

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.094e+05 / 40
p0 38.4 ± 0.04654
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

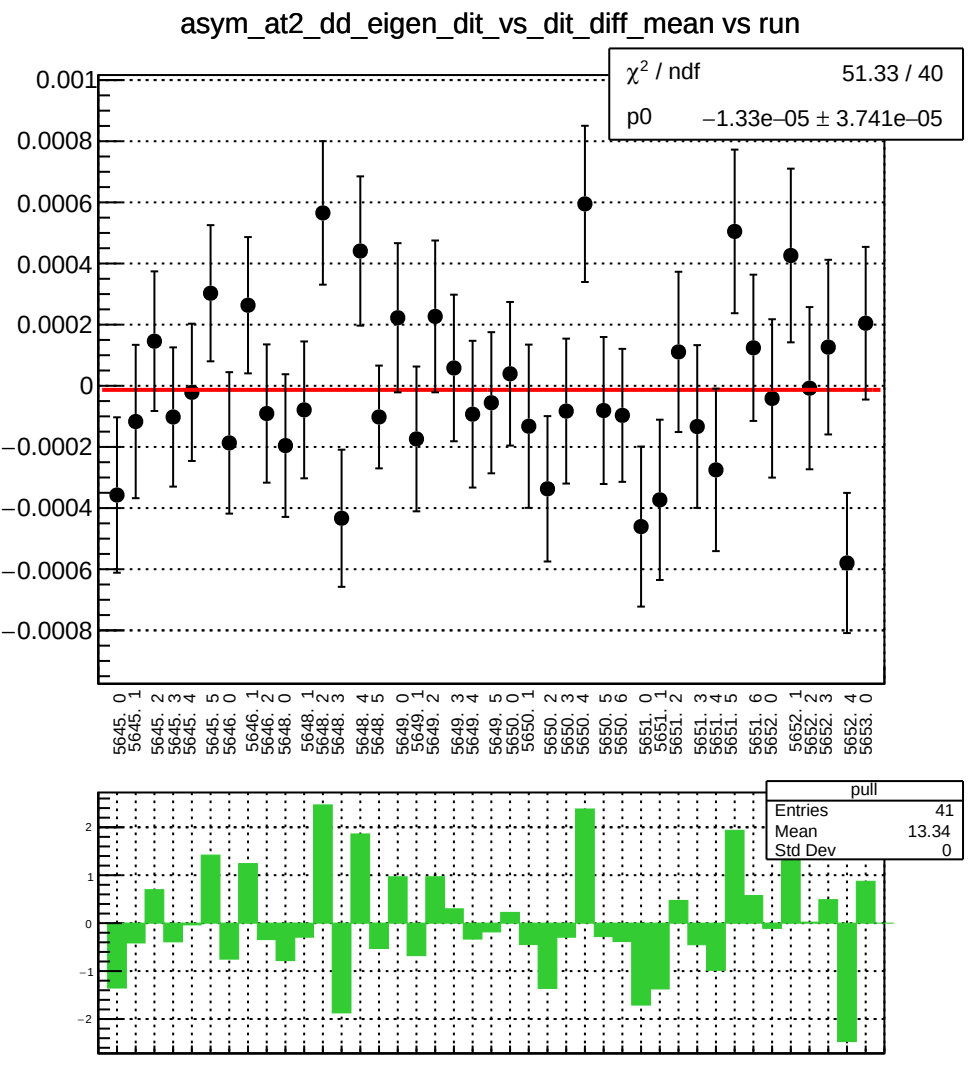
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

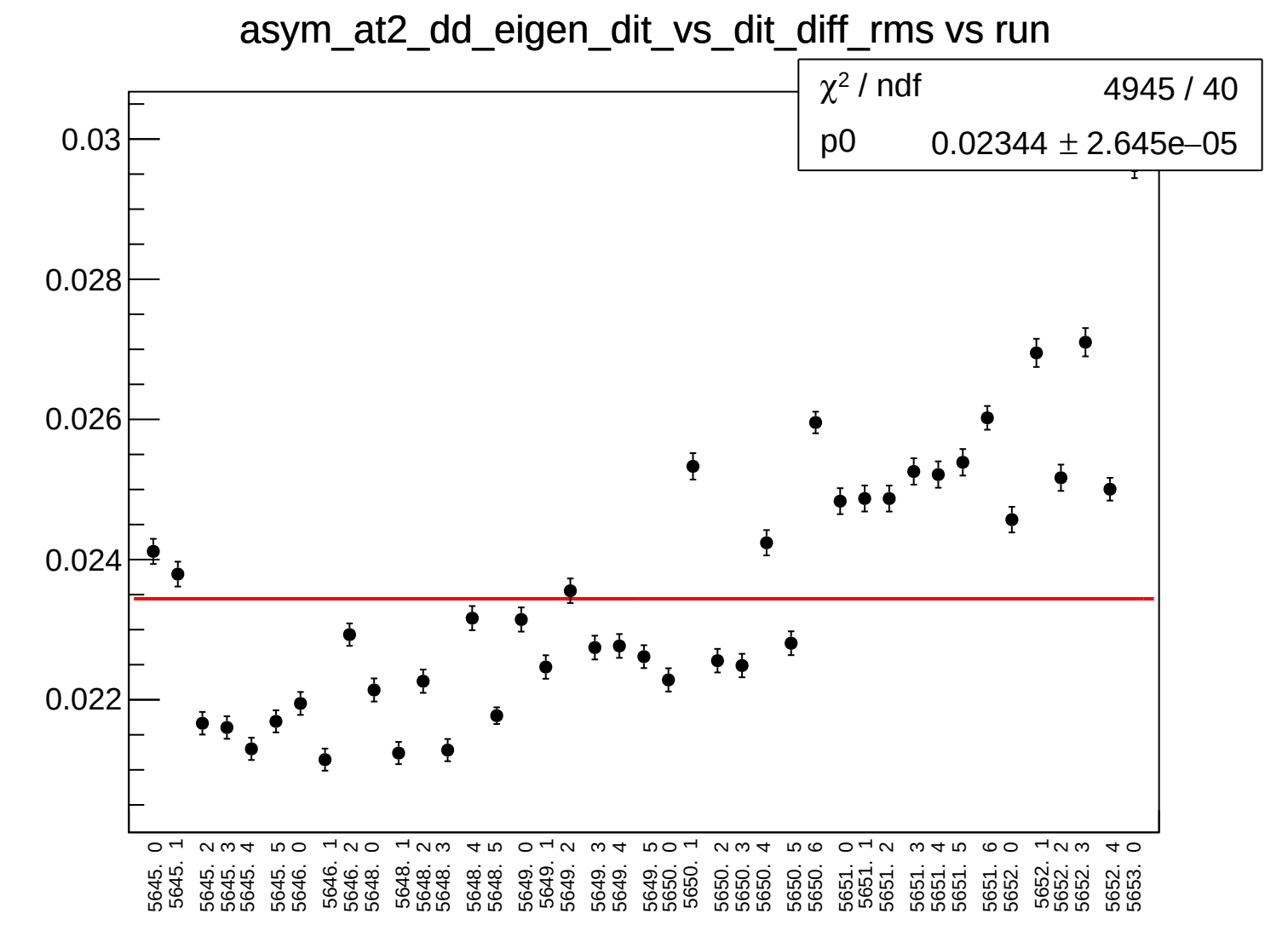


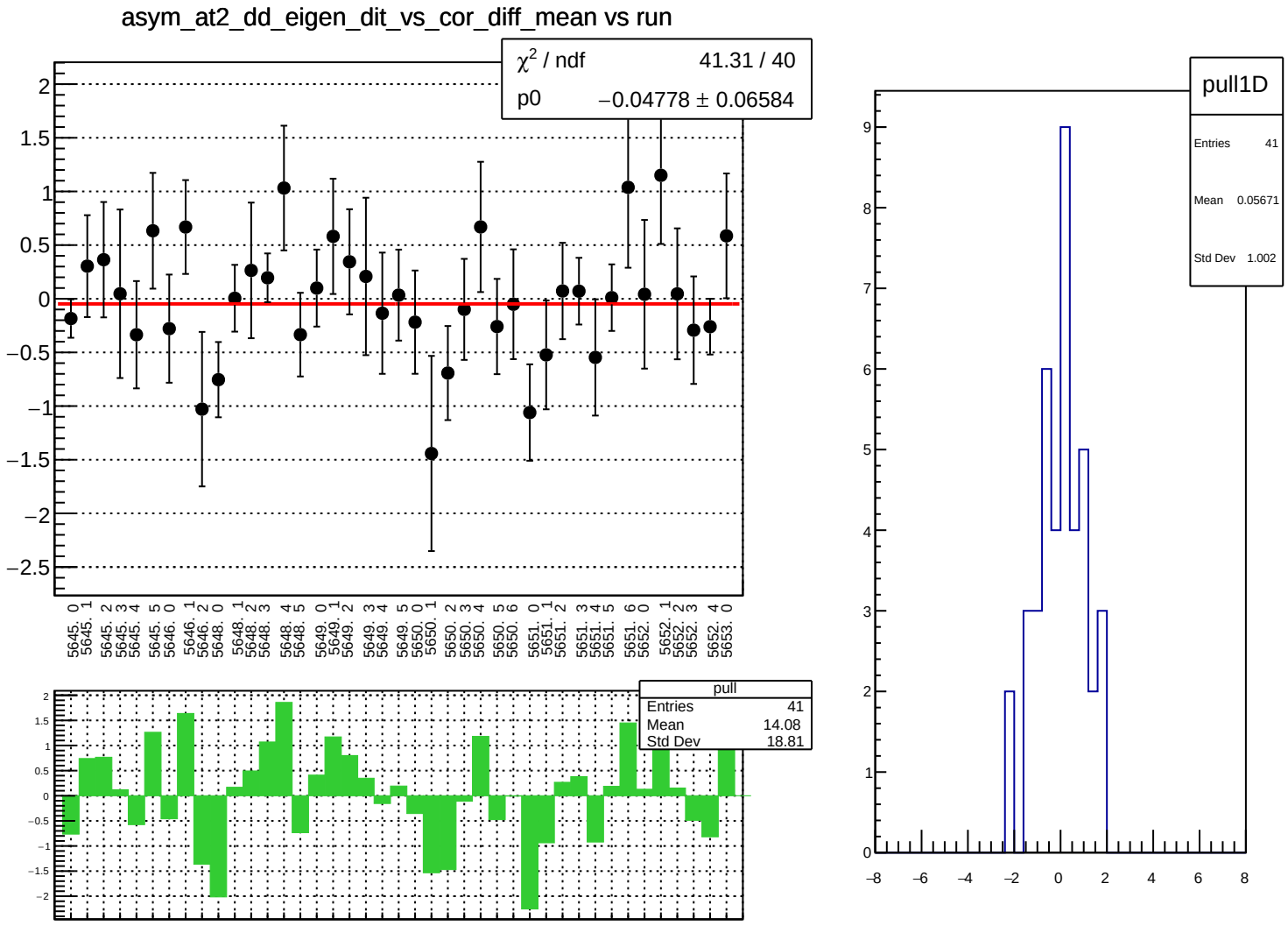


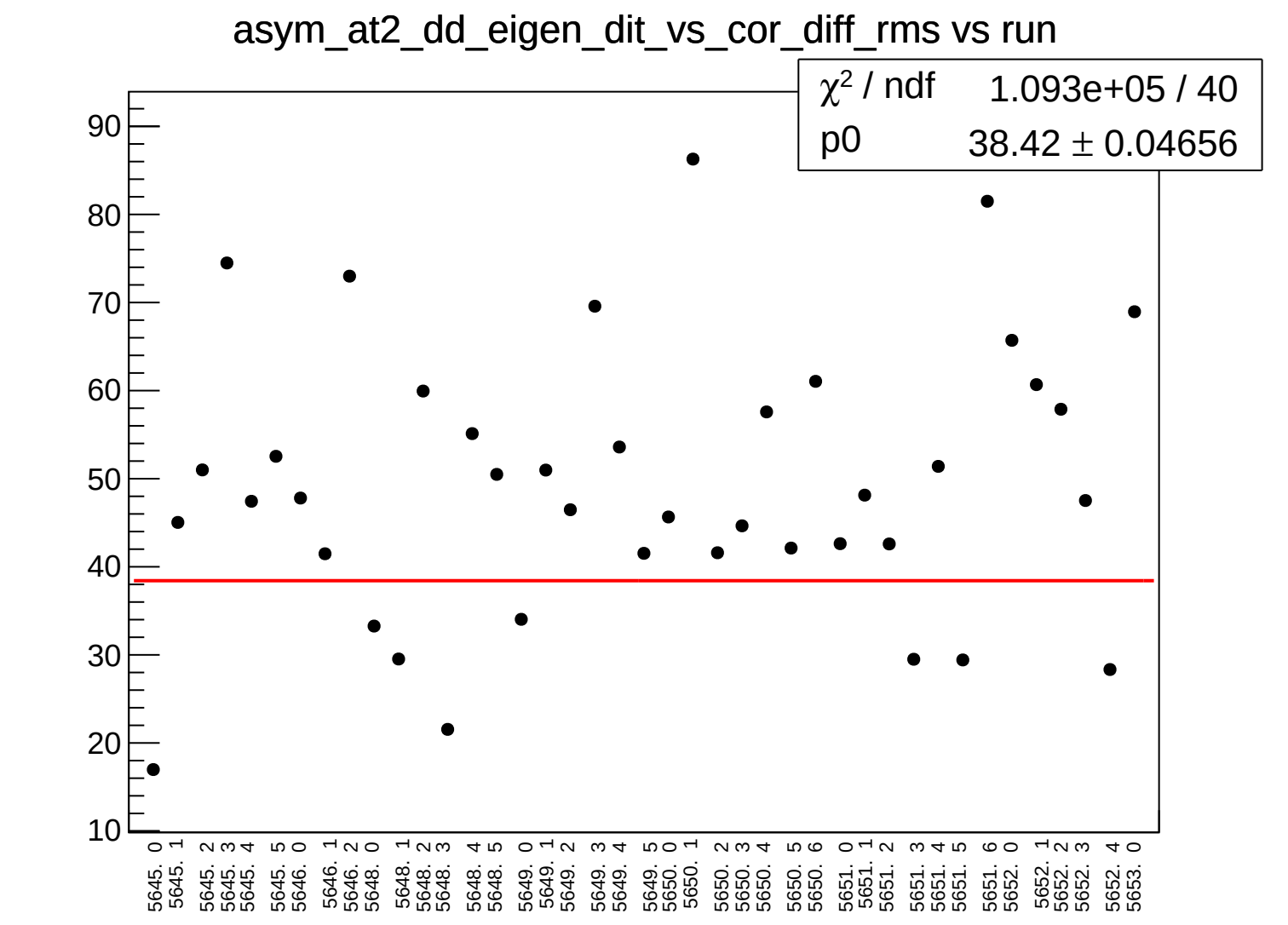


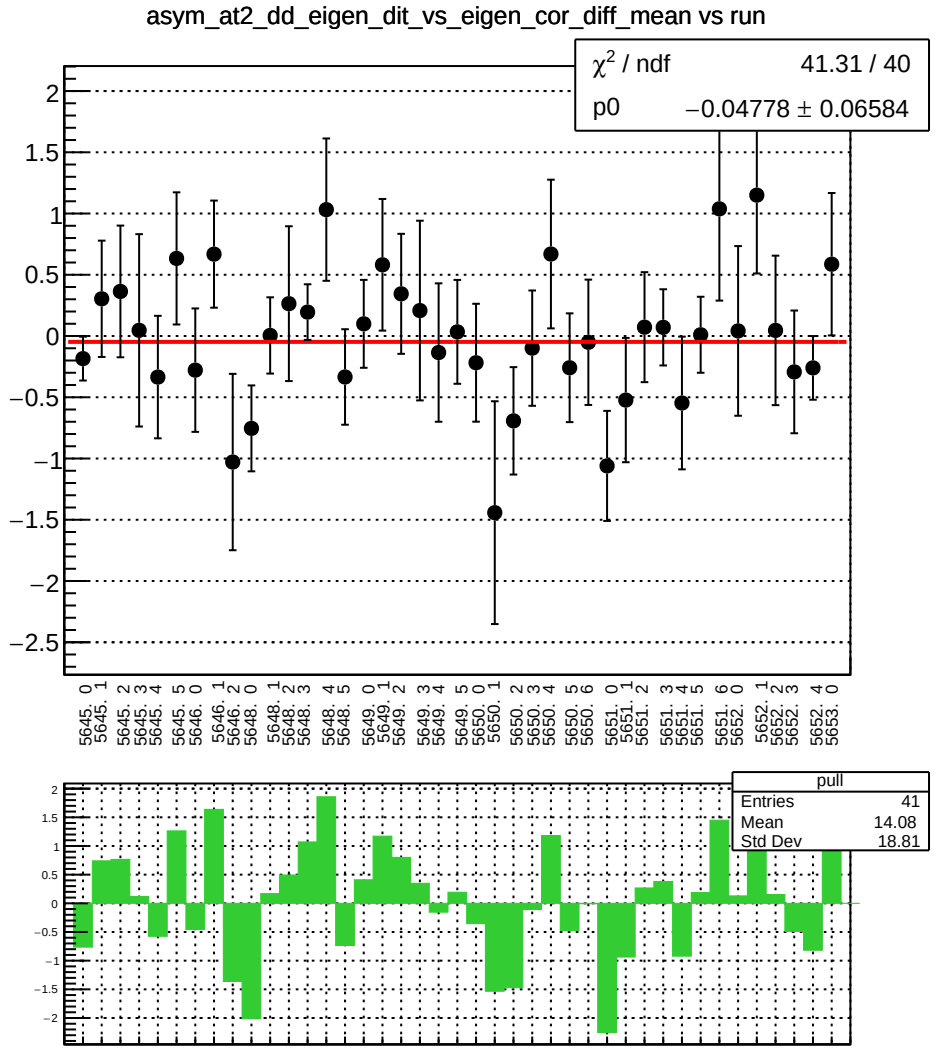

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.094e+05 / 40
p0 38.4 ± 0.04654
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

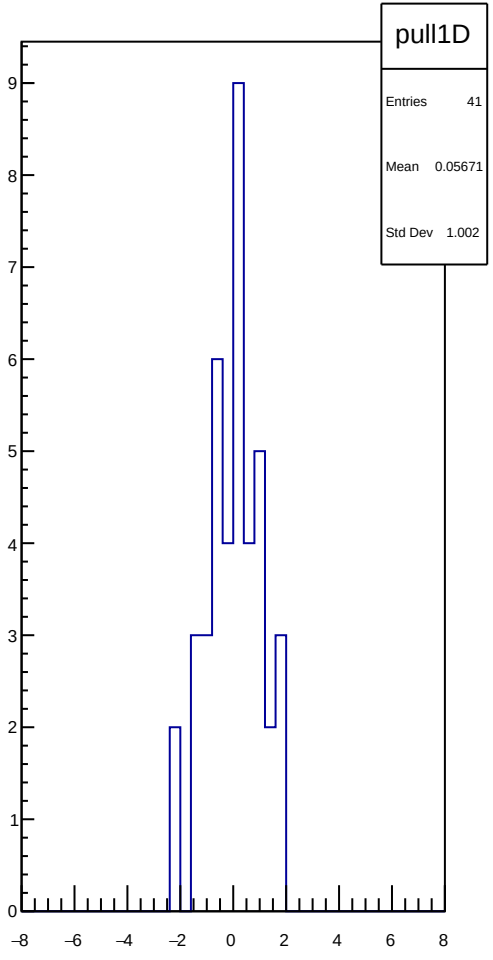

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 51.33 / 40
p0 −1.33e−05 ± 3.741e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.34
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01537
Std Dev 1.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

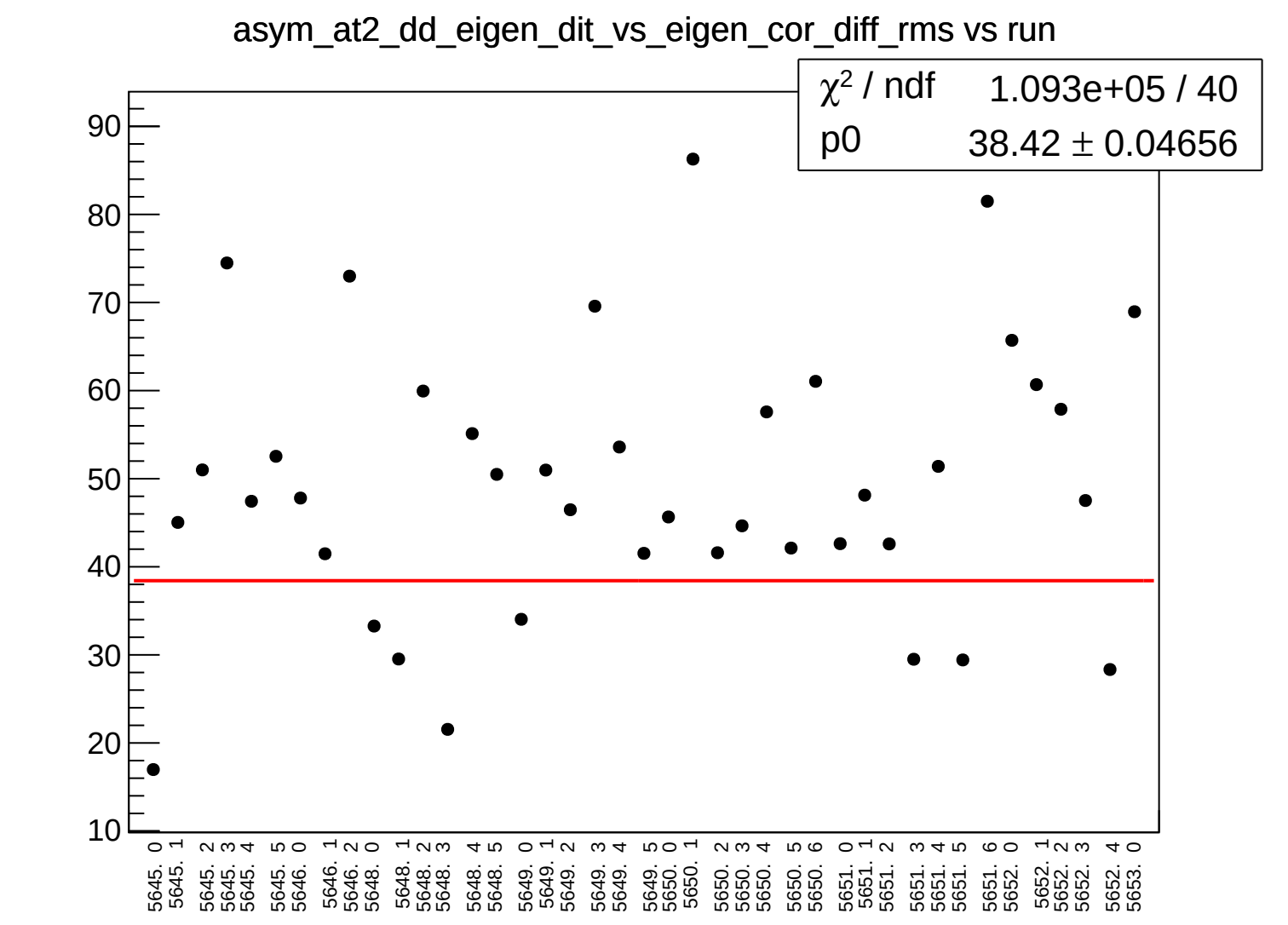

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4945 / 40
p0 0.02344 ± 2.645e−05
0.03
0.028
0.026
0.024
0.022
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.31 / 40
p0 −0.04778 ± 0.06584
pull
Entries 41
Mean 14.08
Std Dev 18.81
pull1D
Entries 41
Mean 0.05671
Std Dev 1.002

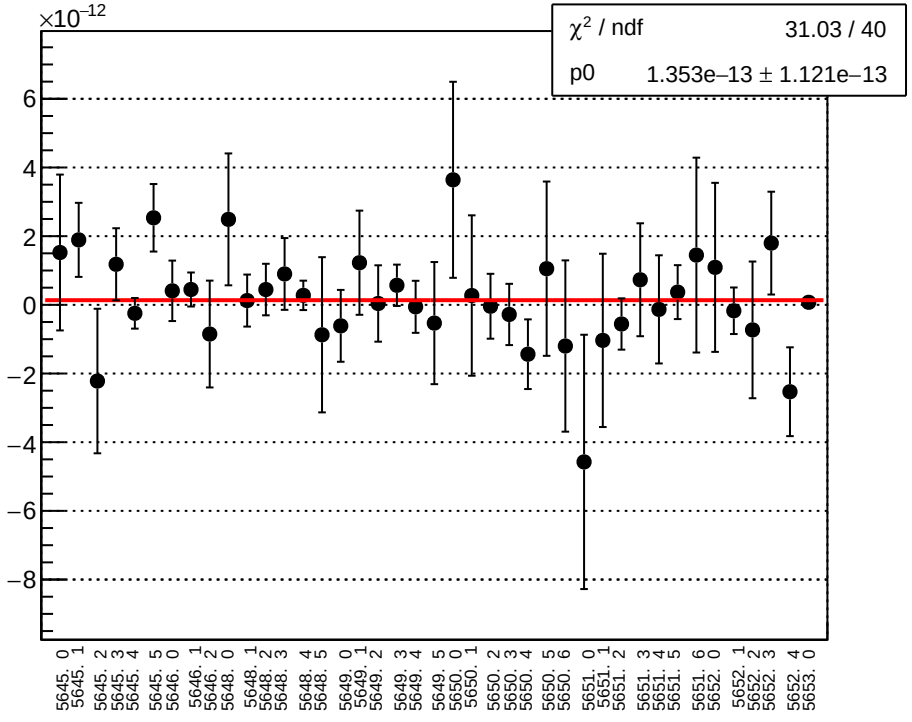

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 40
p0 38.42 ± 0.04656
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

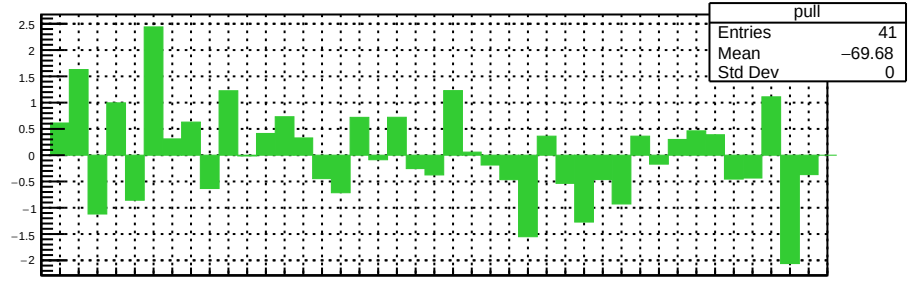

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.31 / 40
p0 −0.04778 ± 0.06584
pull
Entries 41
Mean 14.08
Std Dev 18.81

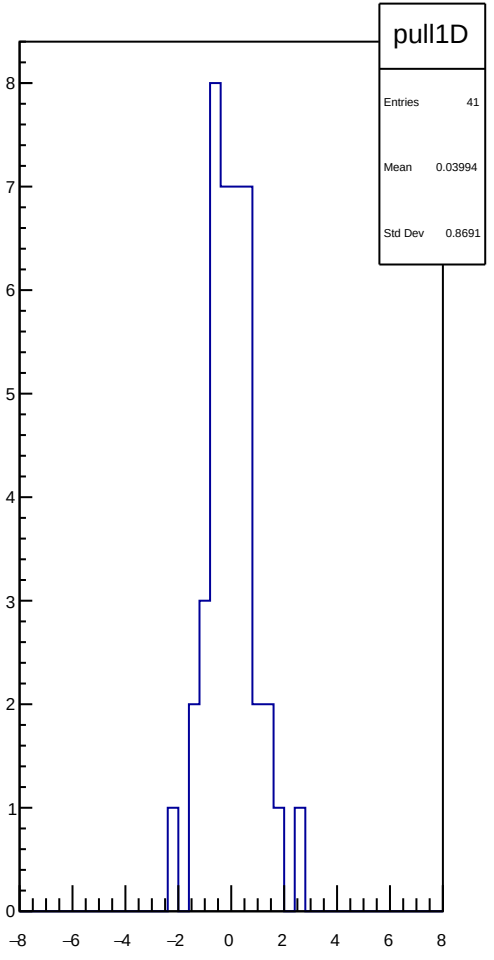

pull1D
Entries 41
Mean 0.05671
Std Dev 1.002

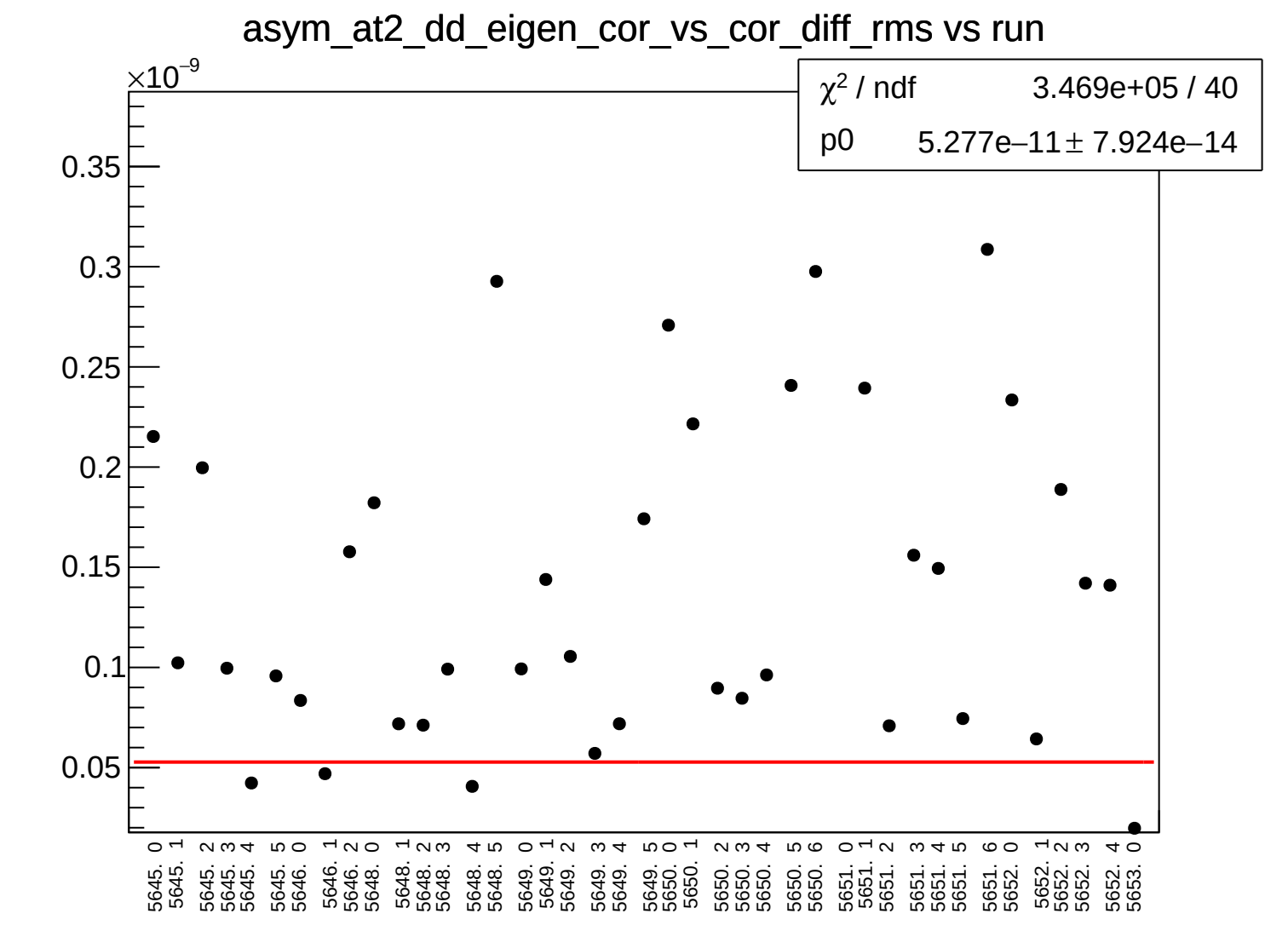

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 40
p0 38.42 ± 0.04656
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

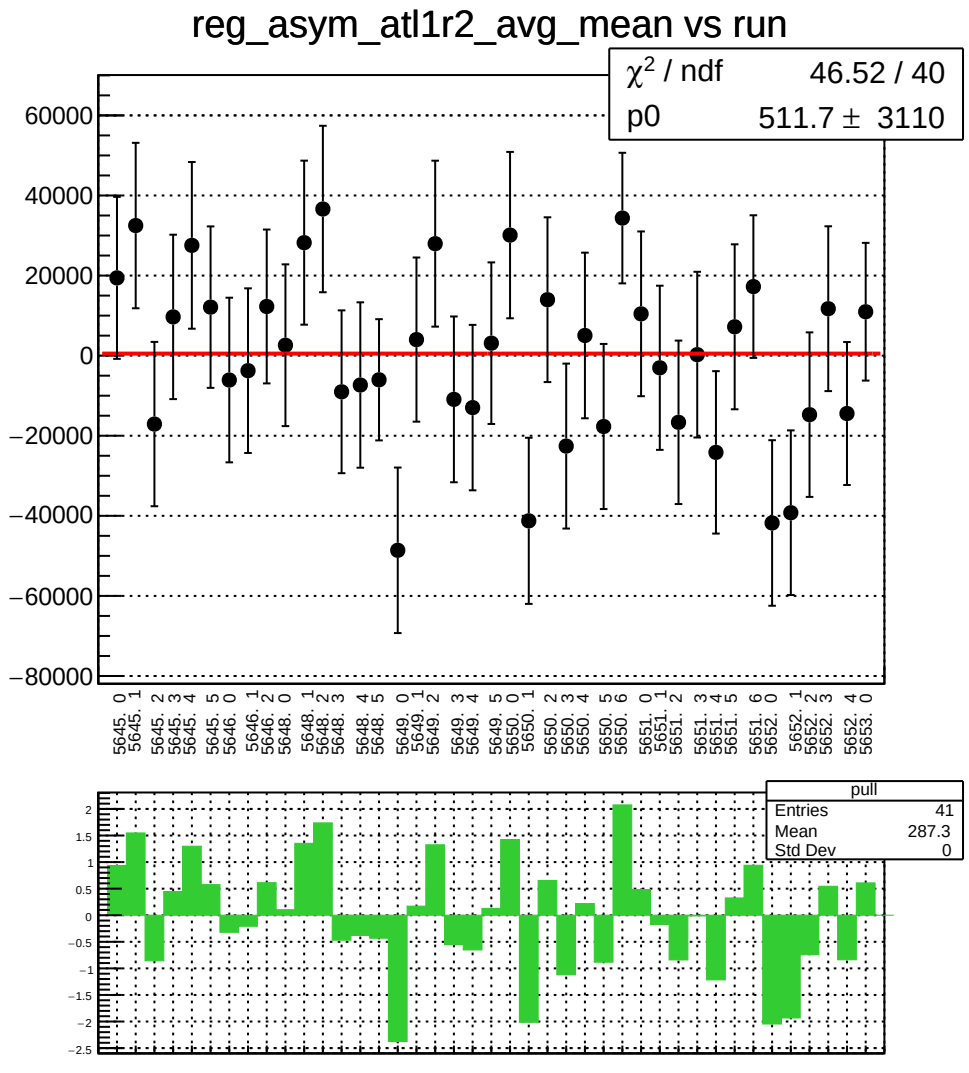
asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run

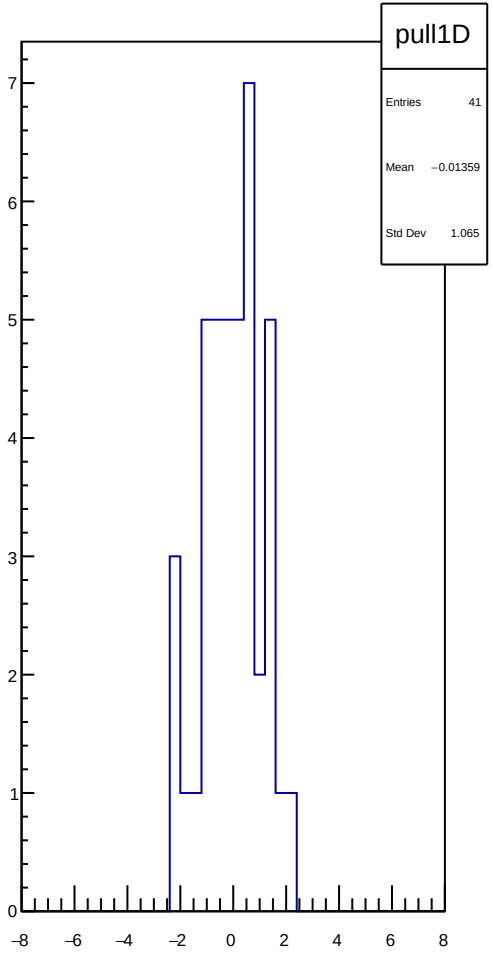


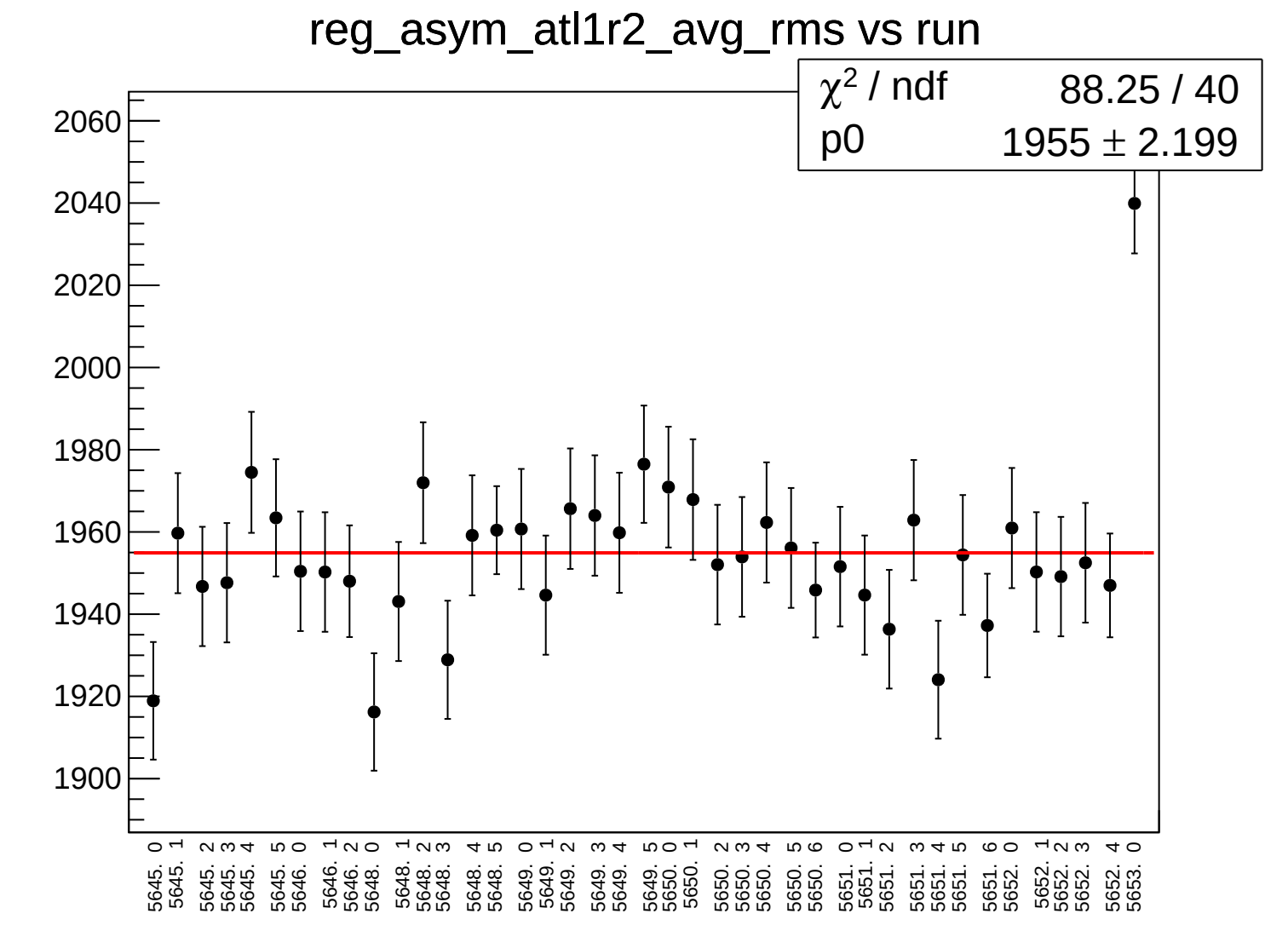


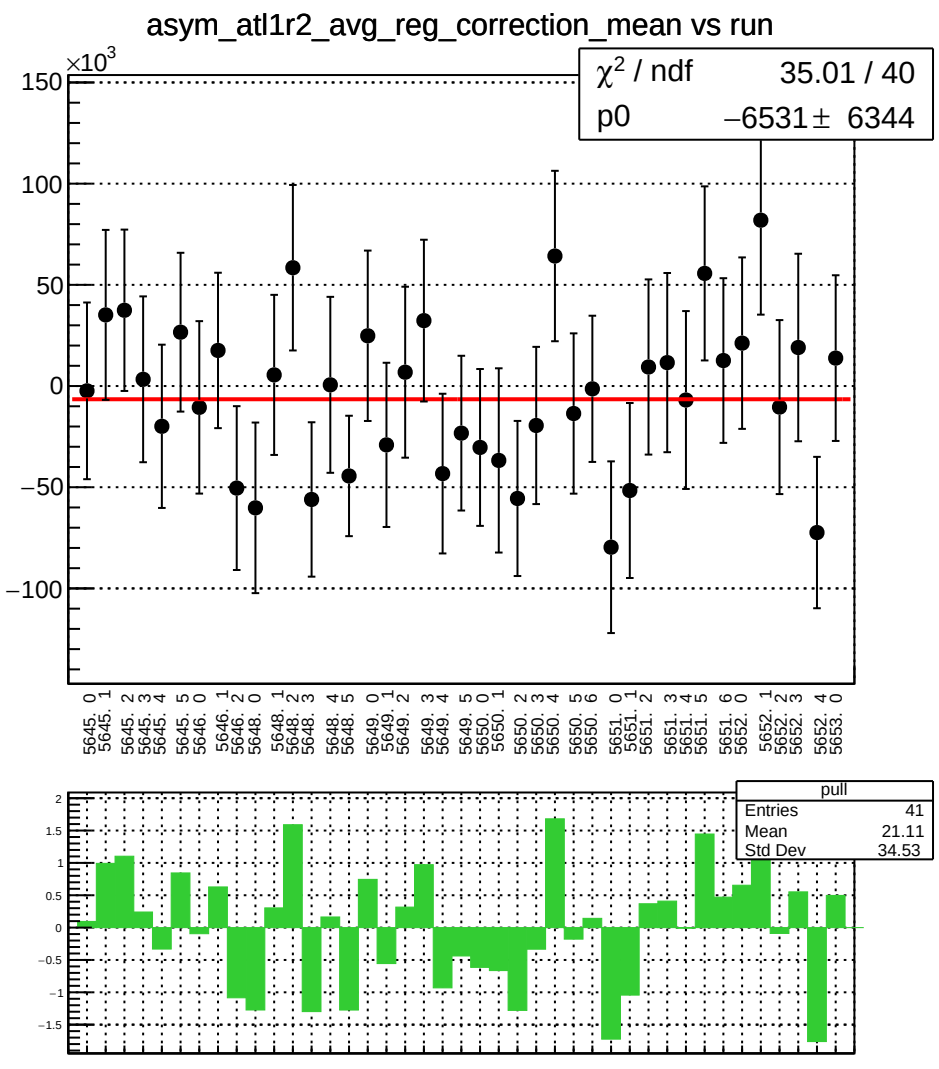


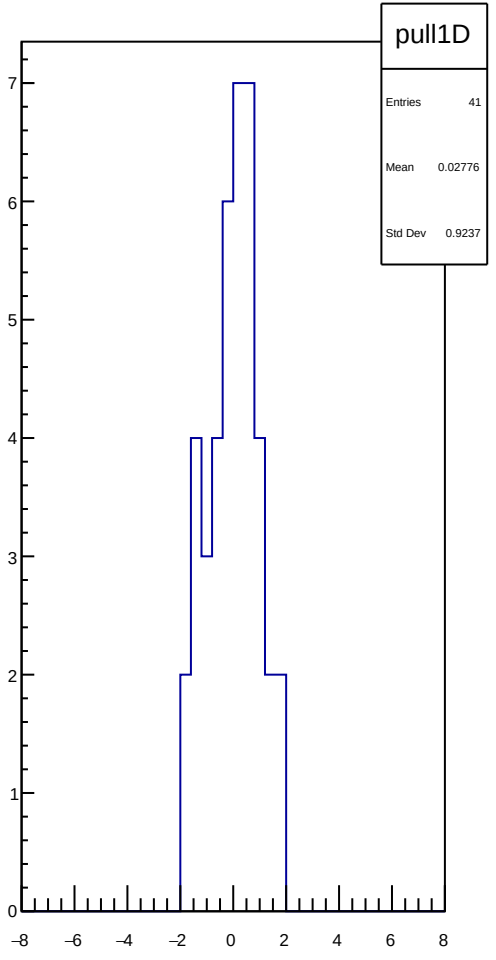

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.469e+05 / 40
p0 5.277e−11 ± 7.924e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

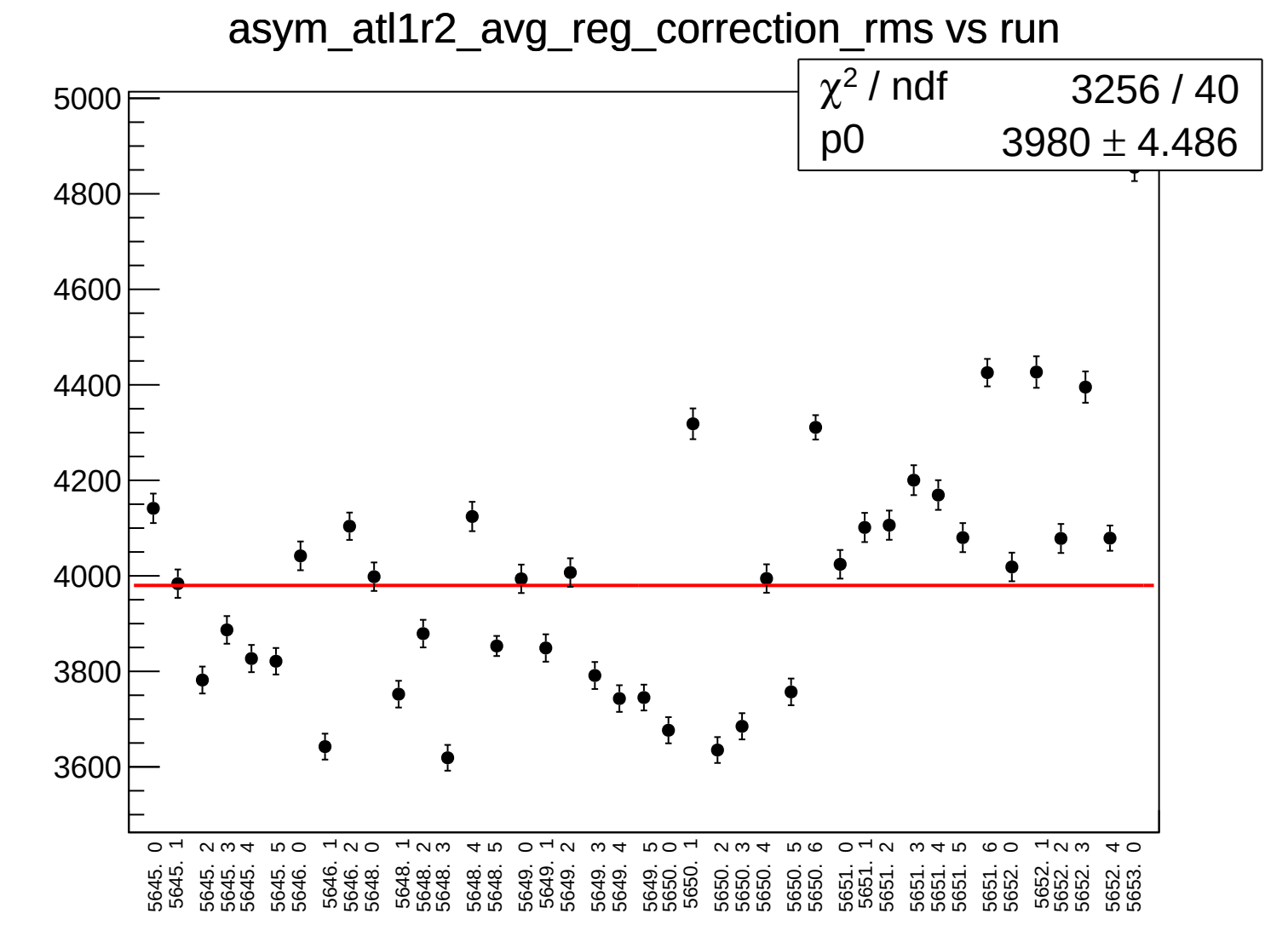

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 46.52 / 40
p0 511.7 ± 3110
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 287.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

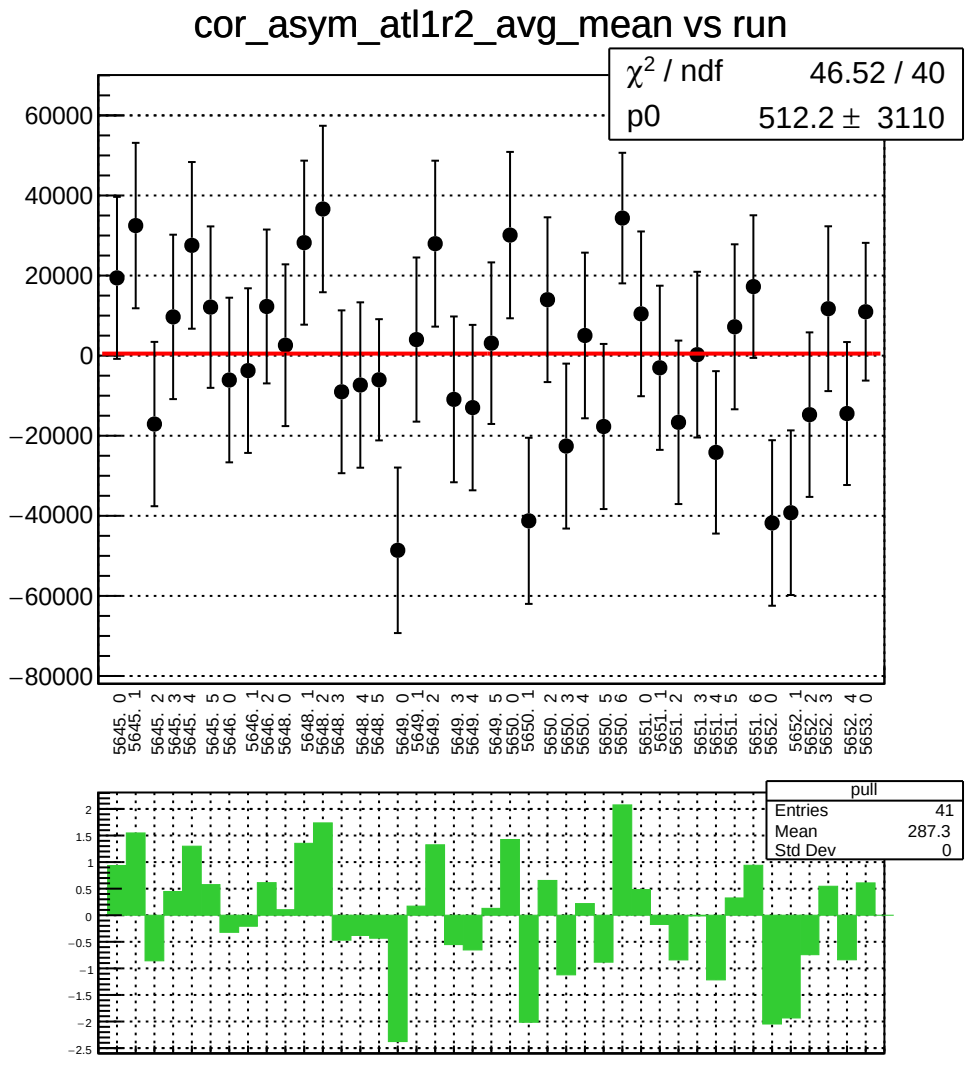

pull1D
Entries 41
Mean −0.01359
Std Dev 1.065
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

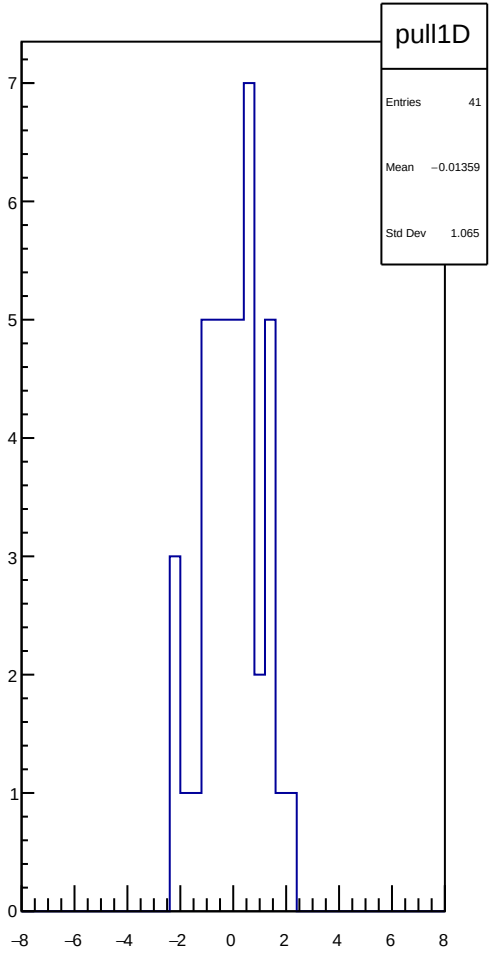

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 88.25 / 40
p0 1955 ± 2.199
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

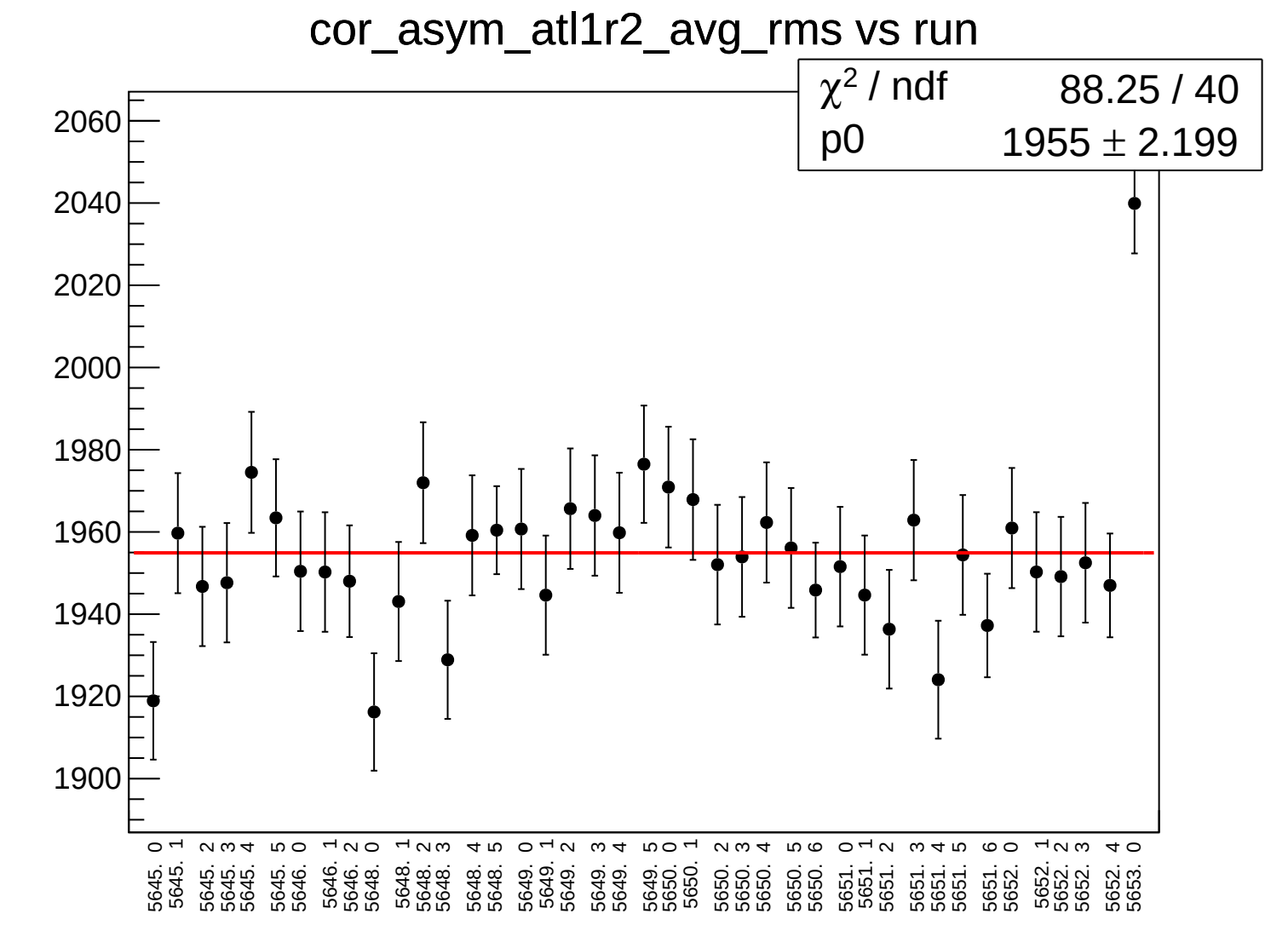

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 35.01 / 40
p0 −6531 ± 6344
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.11
Std Dev 34.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

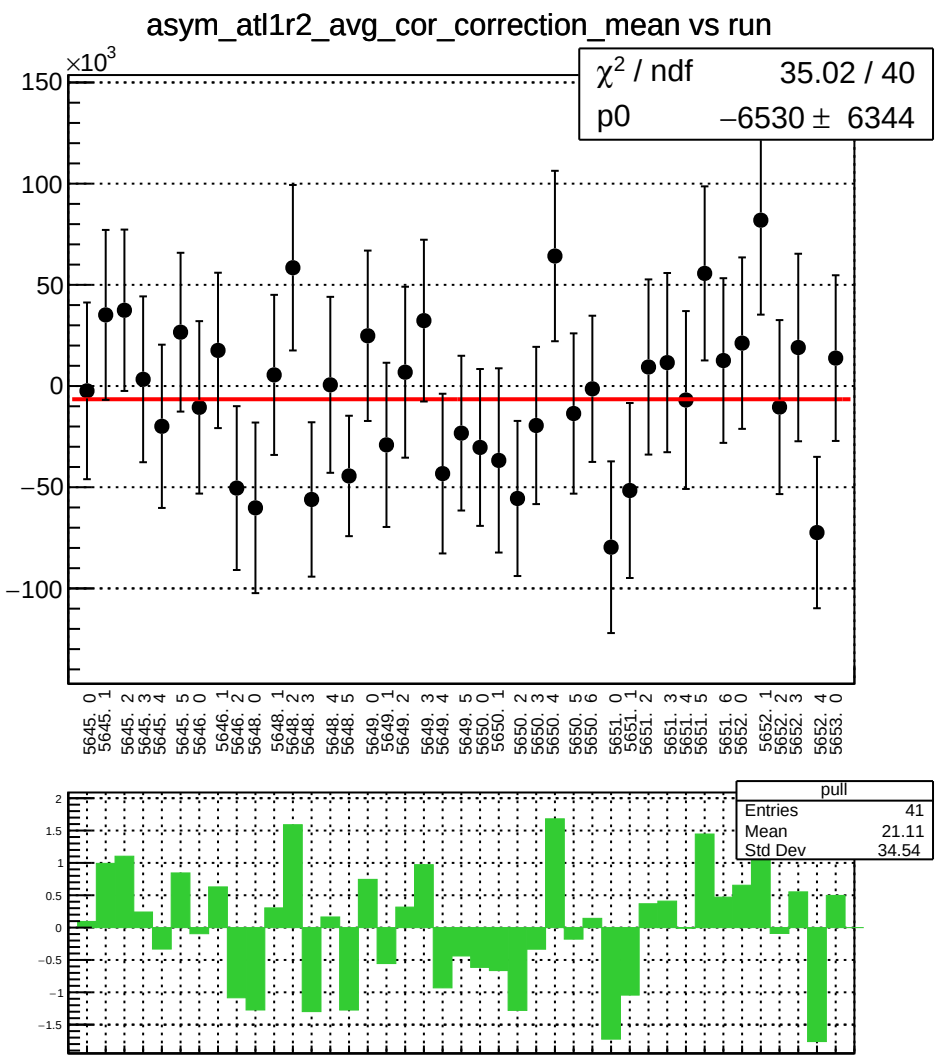

pull1D
Entries 41
Mean 0.02776
Std Dev 0.9237
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

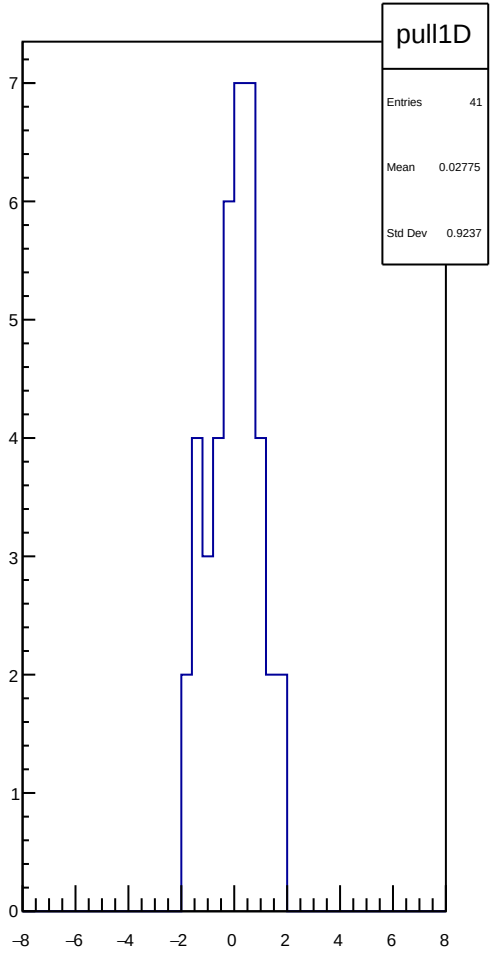

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3256 / 40
p0 3980 ± 4.486
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

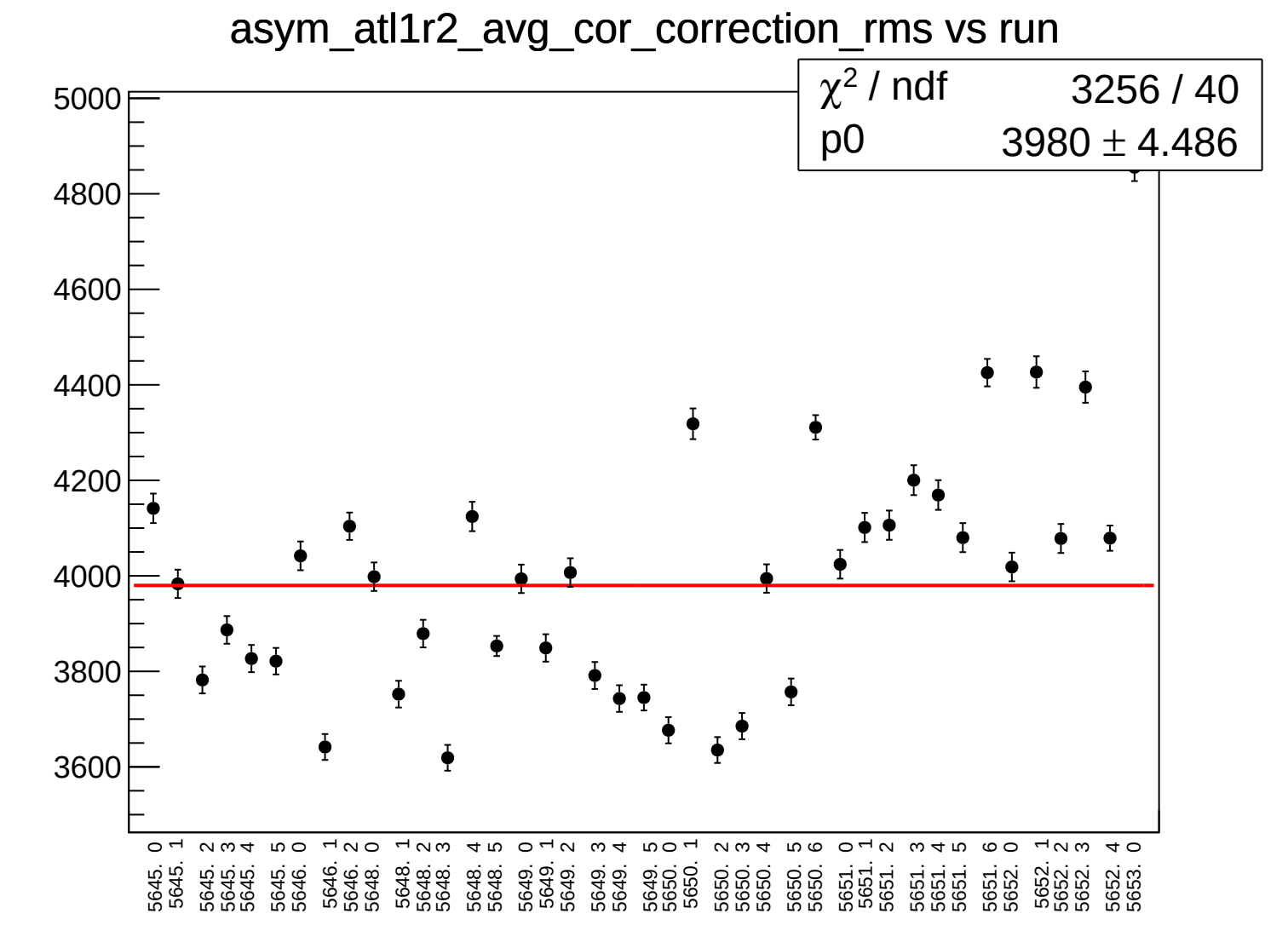

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 46.52 / 40
p0 512.2 ± 3110
pull
Entries 41
Mean 287.3
Std Dev 0


pull1D
Entries 41
Mean −0.01359
Std Dev 1.065


cor_asym_atl1r2_avg_rms vs run
χ² / ndf 88.25 / 40
p0 1955 ± 2.199
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 35.02 / 40
p0 −6530 ± 6344
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.11
Std Dev 34.54
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.02775
Std Dev 0.9237
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 3256 / 40
p0 3980 ± 4.486
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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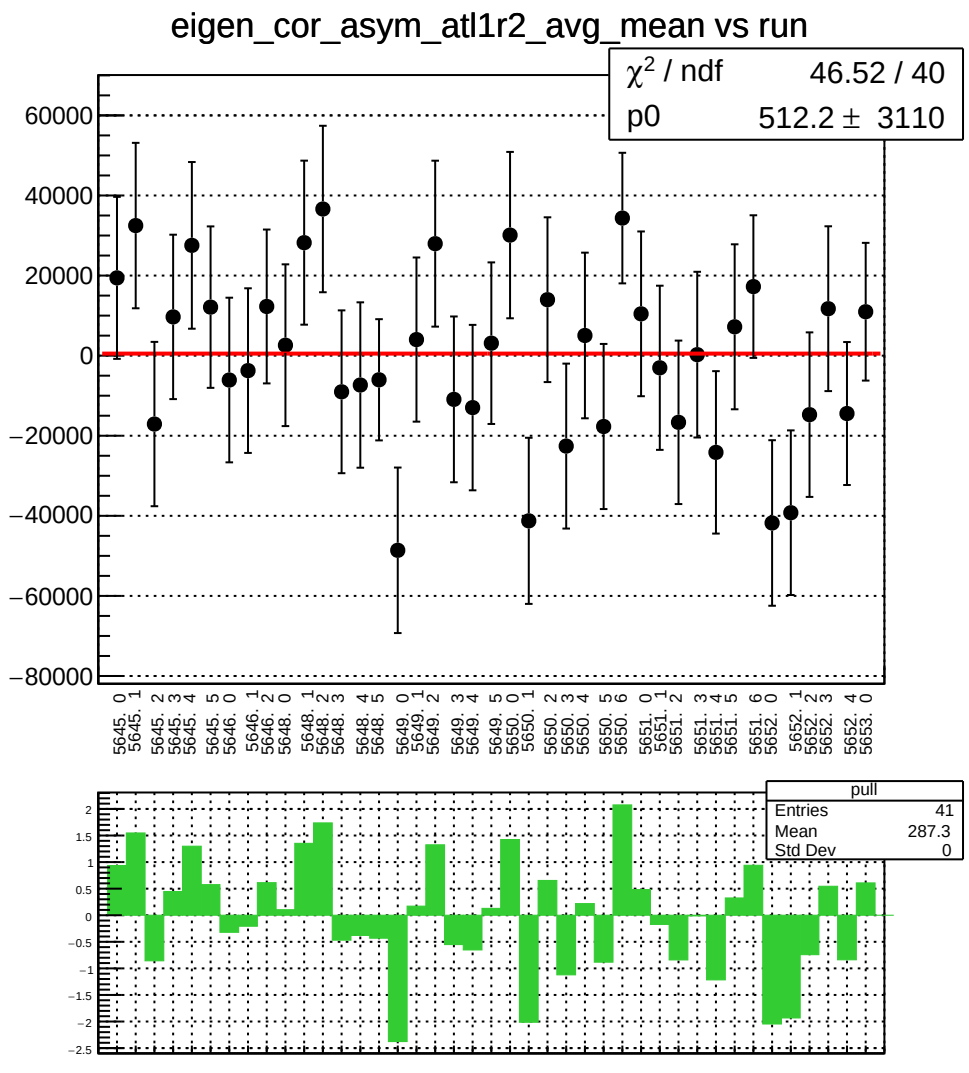
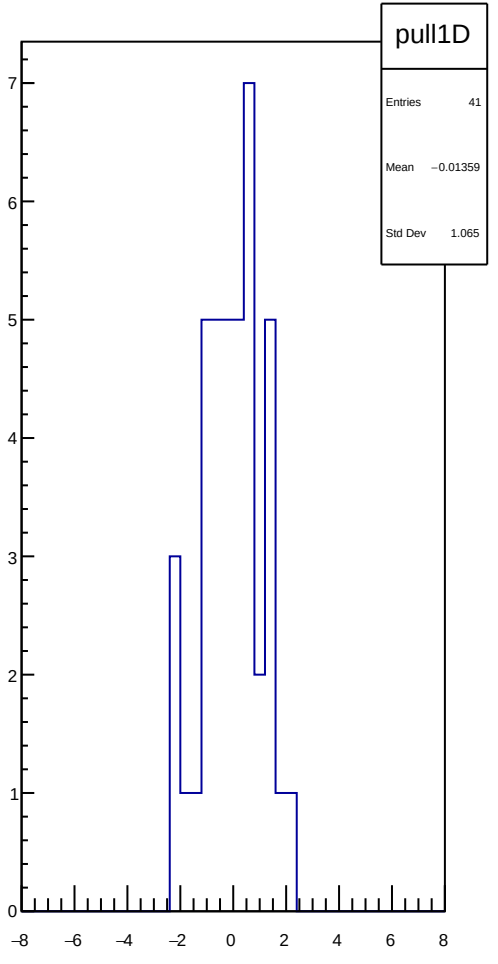
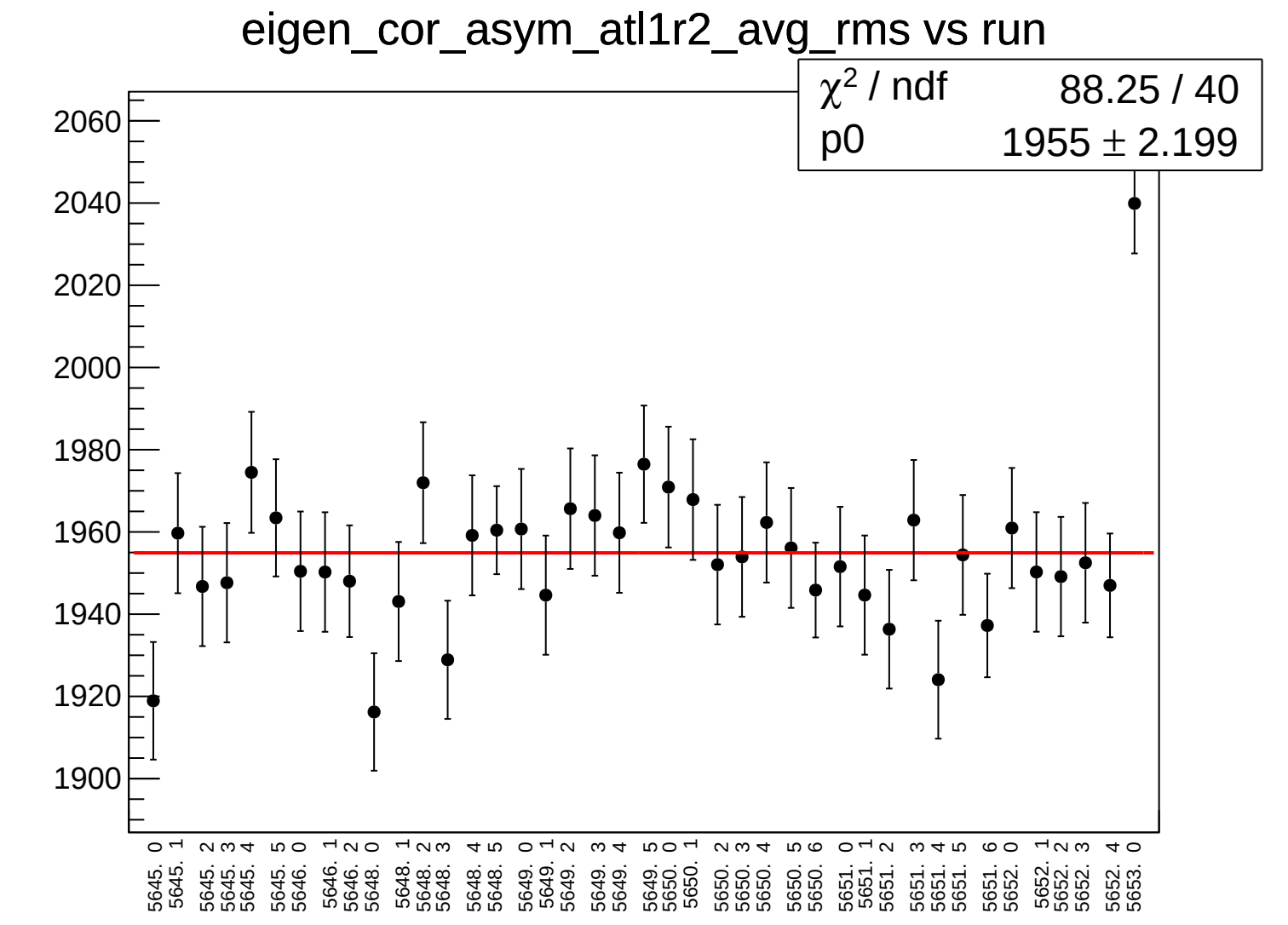
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 46.52 / 40
p0 512.2 ± 3110
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 287.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean −0.01359
Std Dev 1.065
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 88.25 / 40
p0 1955 ± 2.199
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
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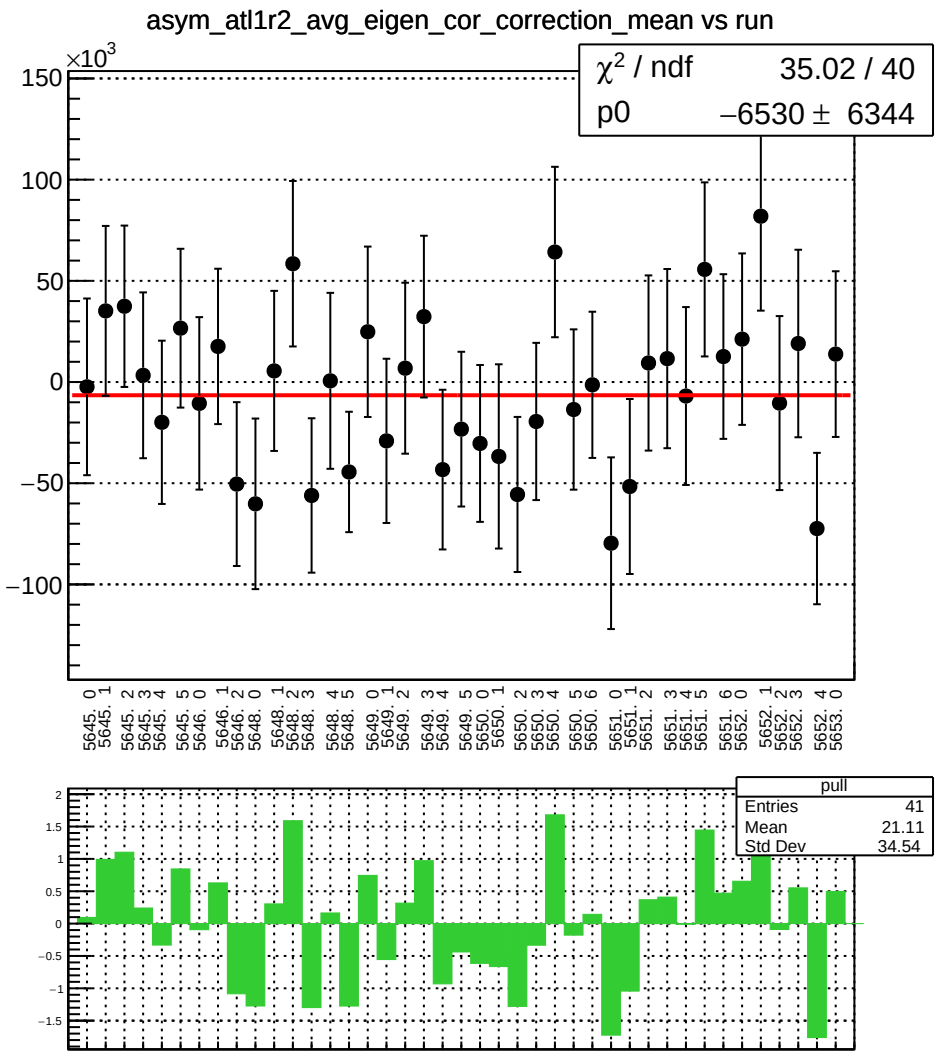
5653. 0


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 35.02 / 40
p0 −6530 ± 6344
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
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5648. 2
5648. 3
5648. 4
5648. 5
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
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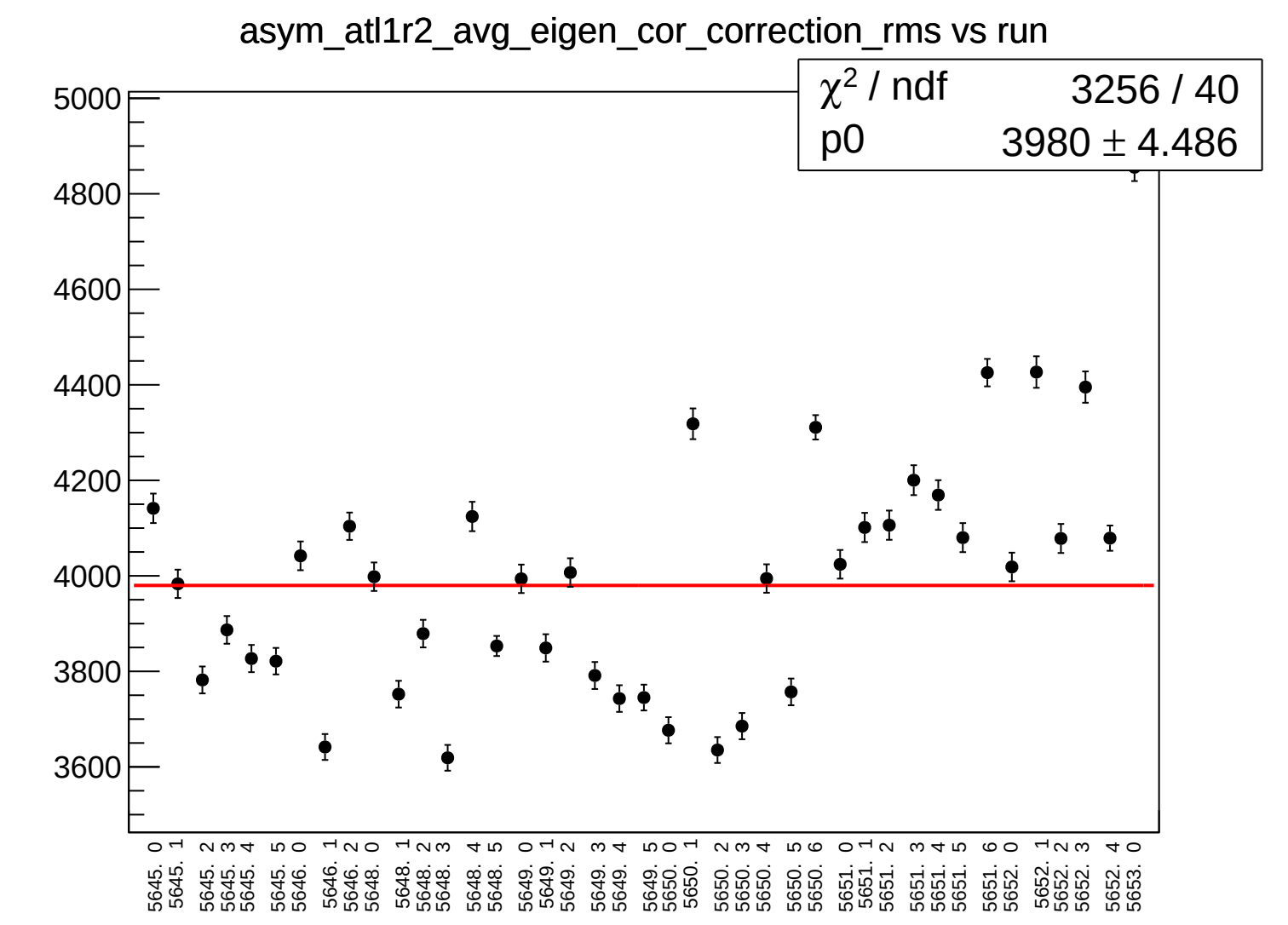
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.11
Std Dev 34.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02775
Std Dev 0.9237
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3256 / 40
p0 3980 ± 4.486
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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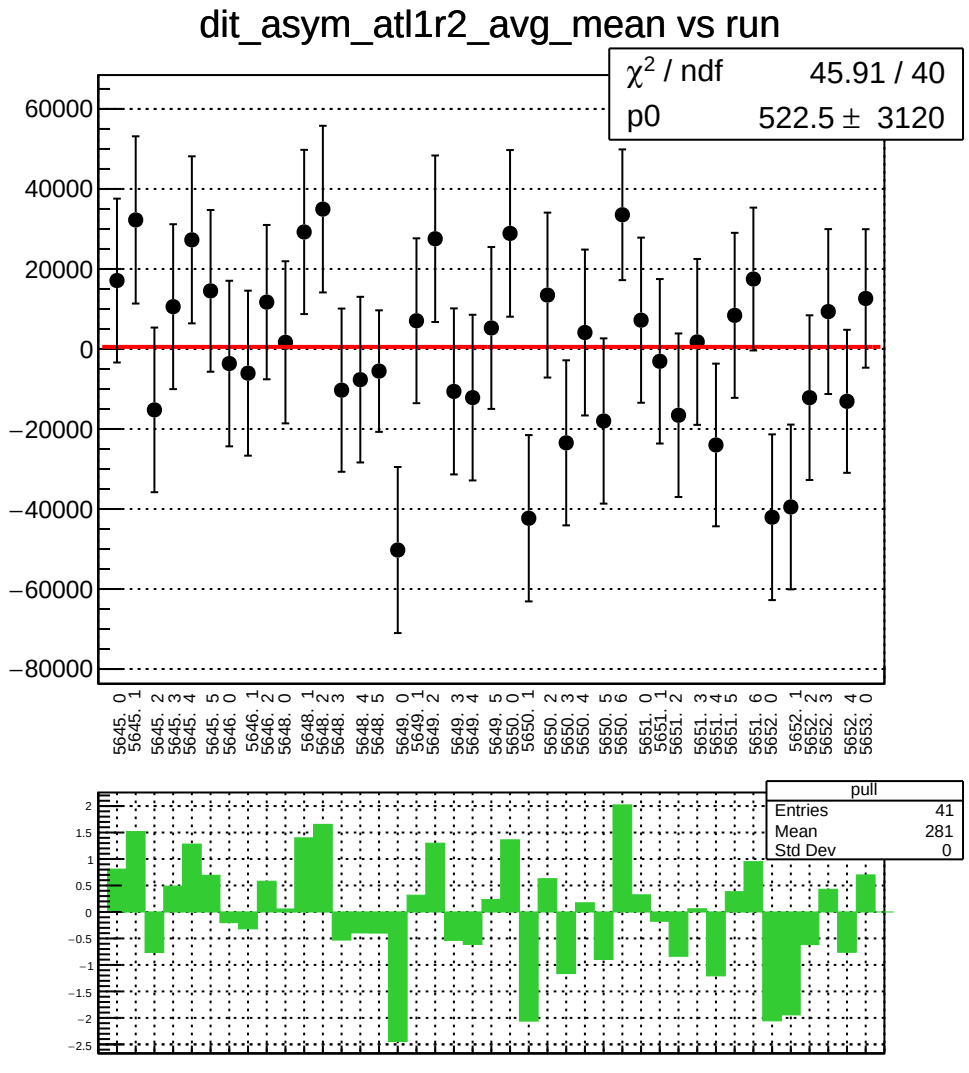
5652. 3
5652. 4
5653. 0


dit_asym_atl1r2_avg_mean vs run
χ² / ndf 45.91 / 40
p0 522.5 ± 3120
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
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5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
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5649. 1
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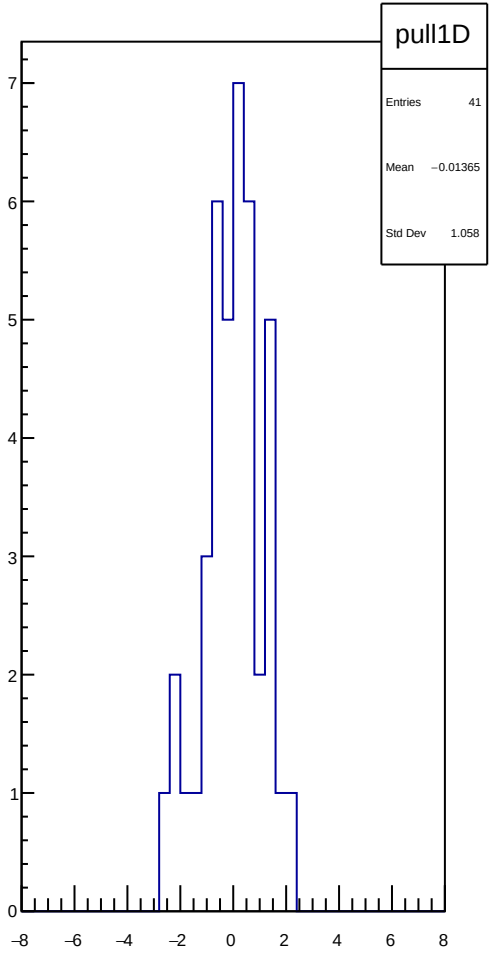
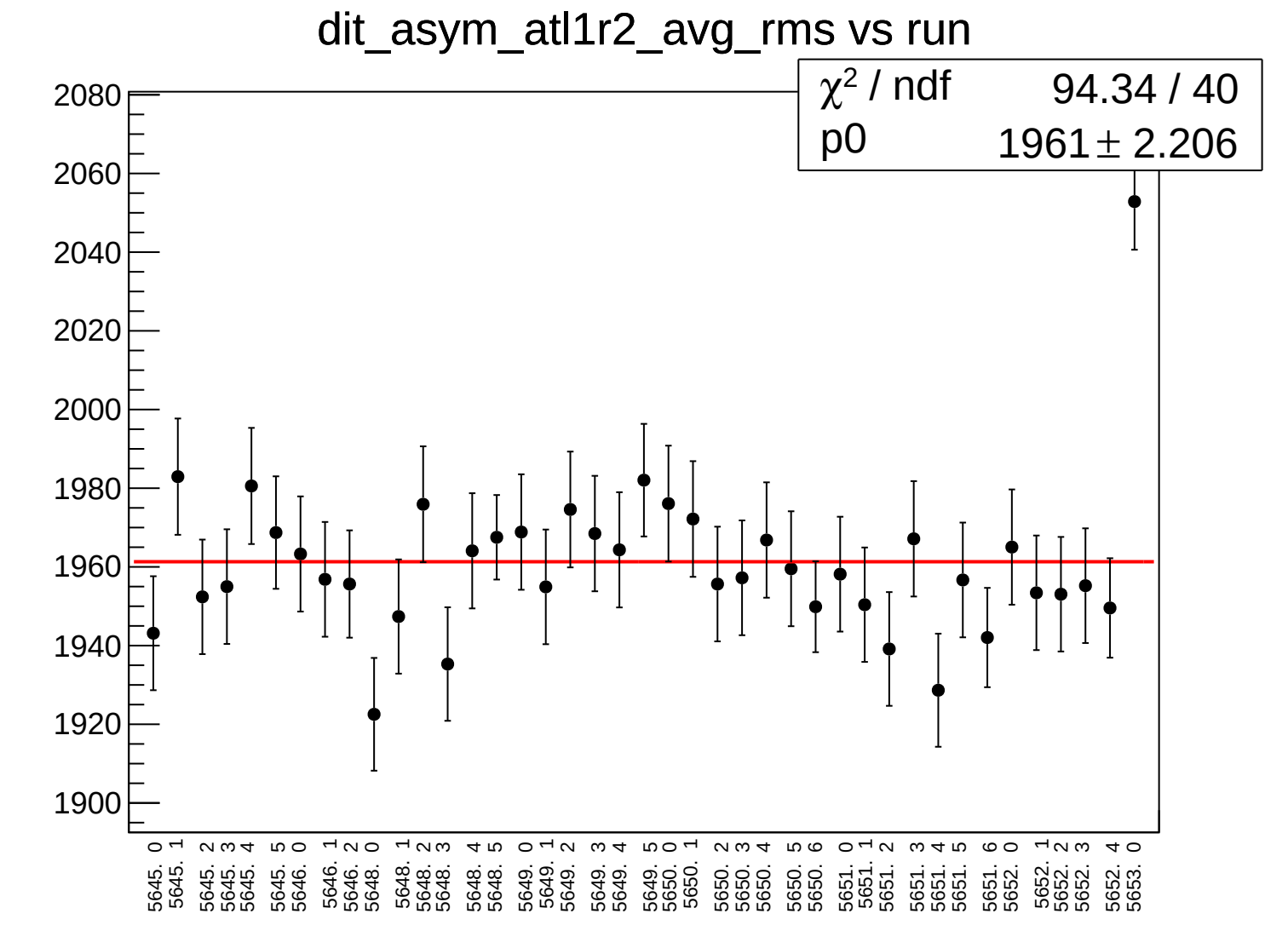
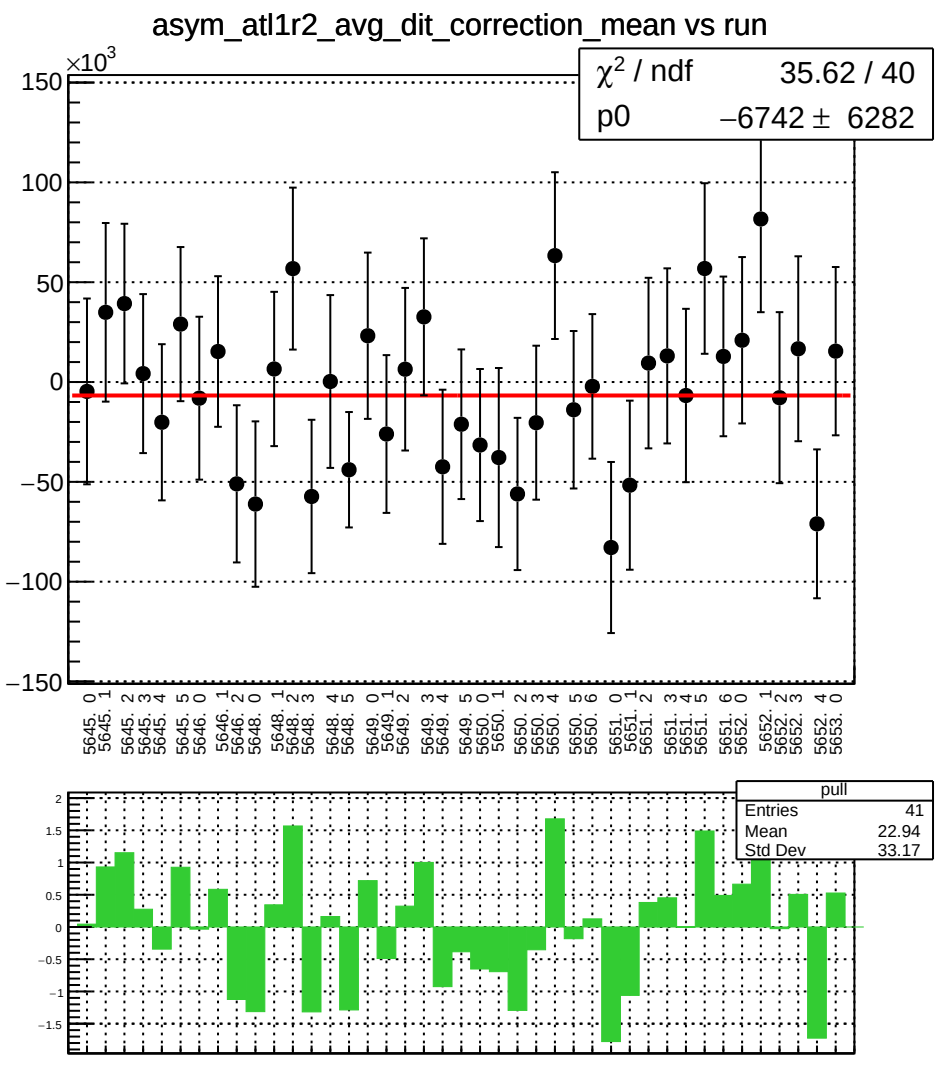
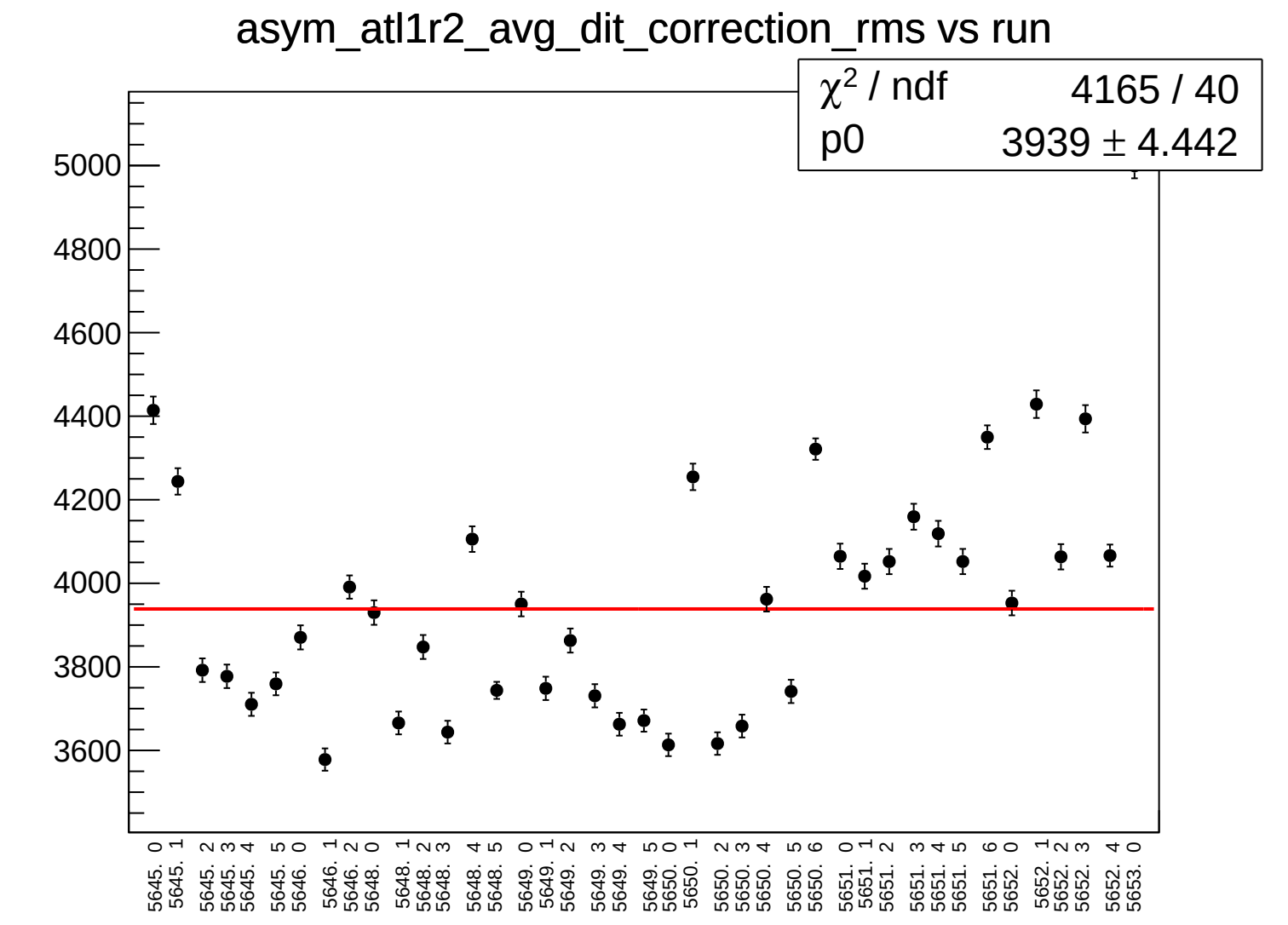
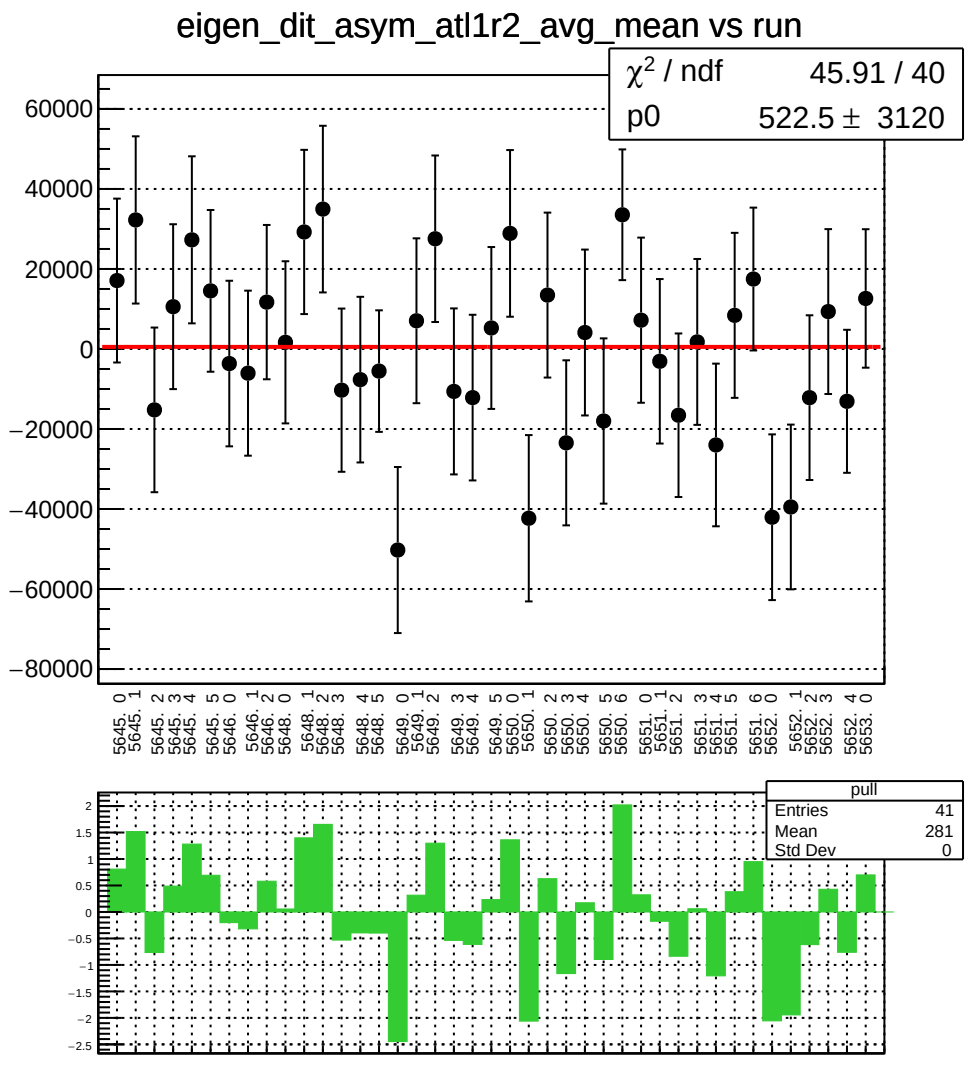
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 281
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

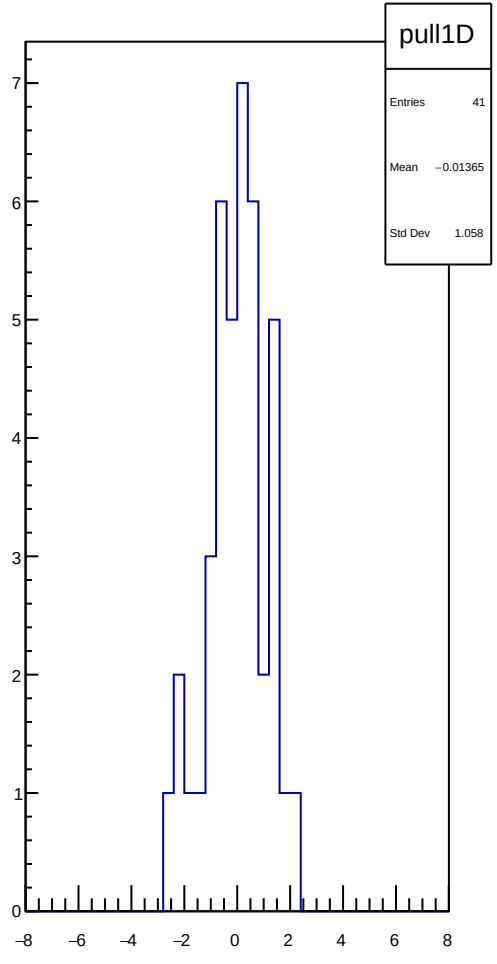

pull1D
Entries 41
Mean −0.01365
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

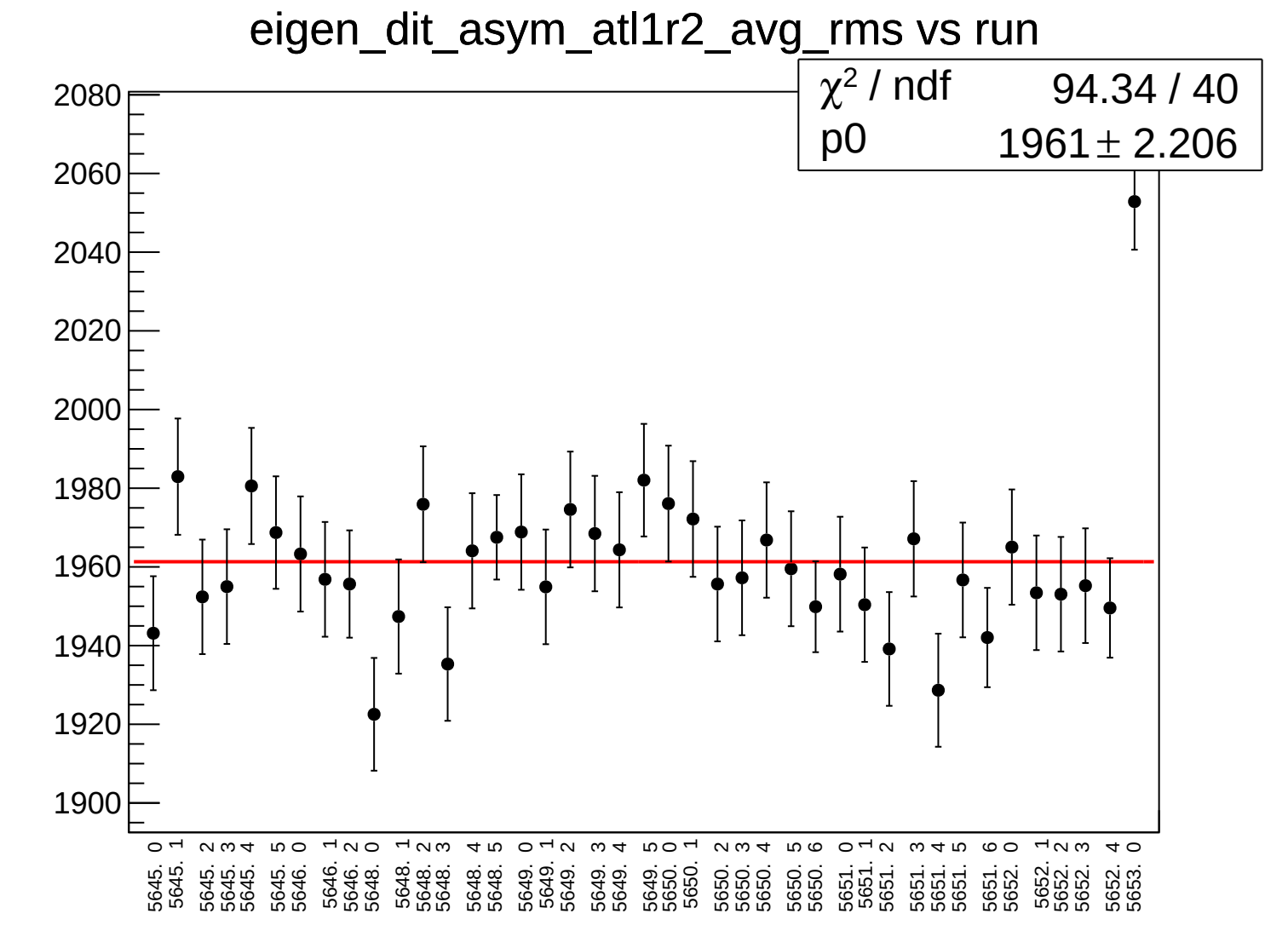

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 94.34 / 40
p0 1961 ± 2.206
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

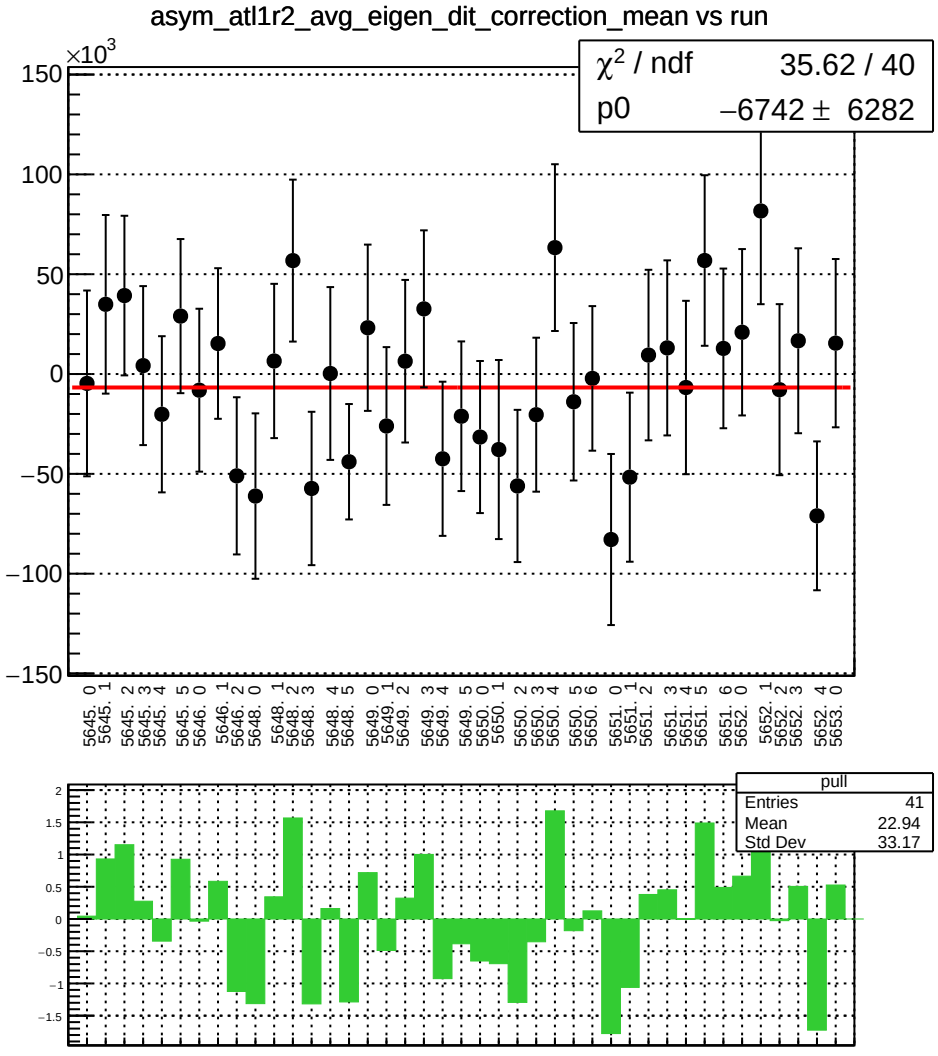

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 35.62 / 40
p0 −6742 ± 6282
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.94
Std Dev 33.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.03073
Std Dev 0.9316
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

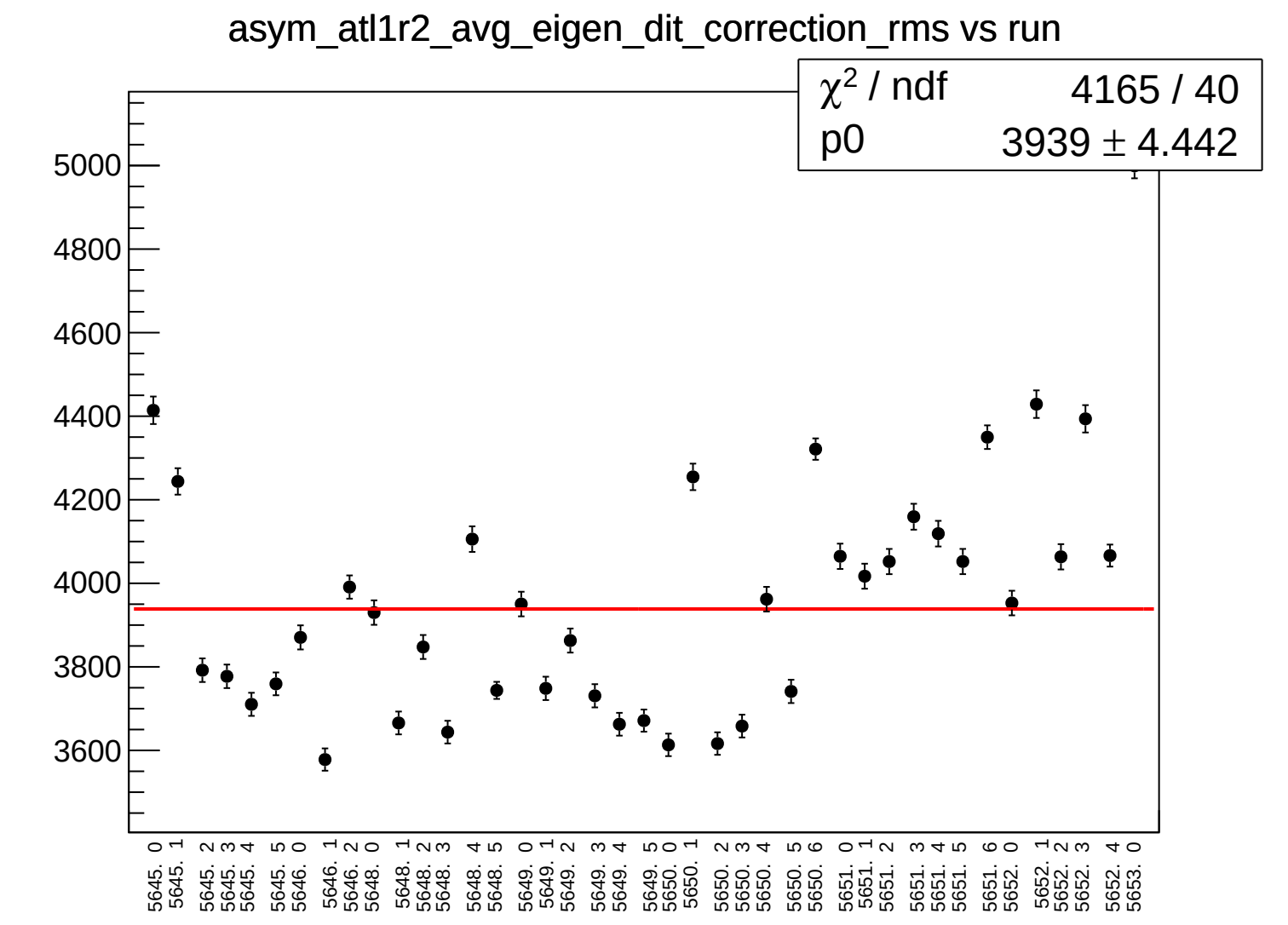

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4165 / 40
p0 3939 ± 4.442
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

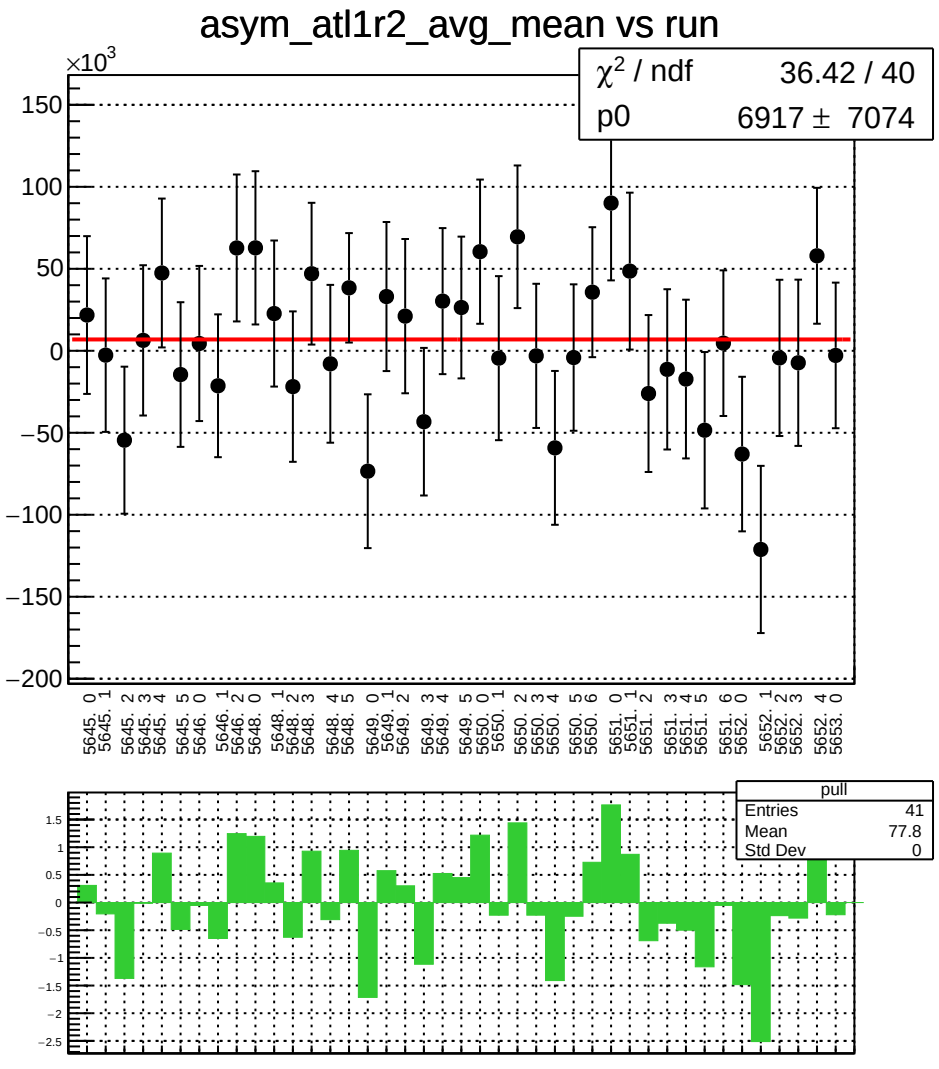

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 45.91 / 40
p0 522.5 ± 3120
pull
Entries 41
Mean 281
Std Dev 0

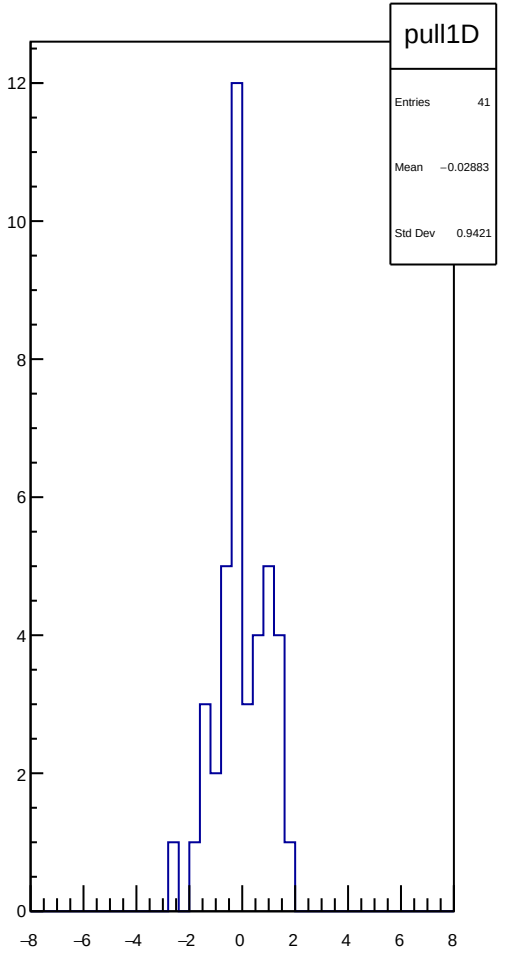

pull1D
Entries 41
Mean −0.01365
Std Dev 1.058

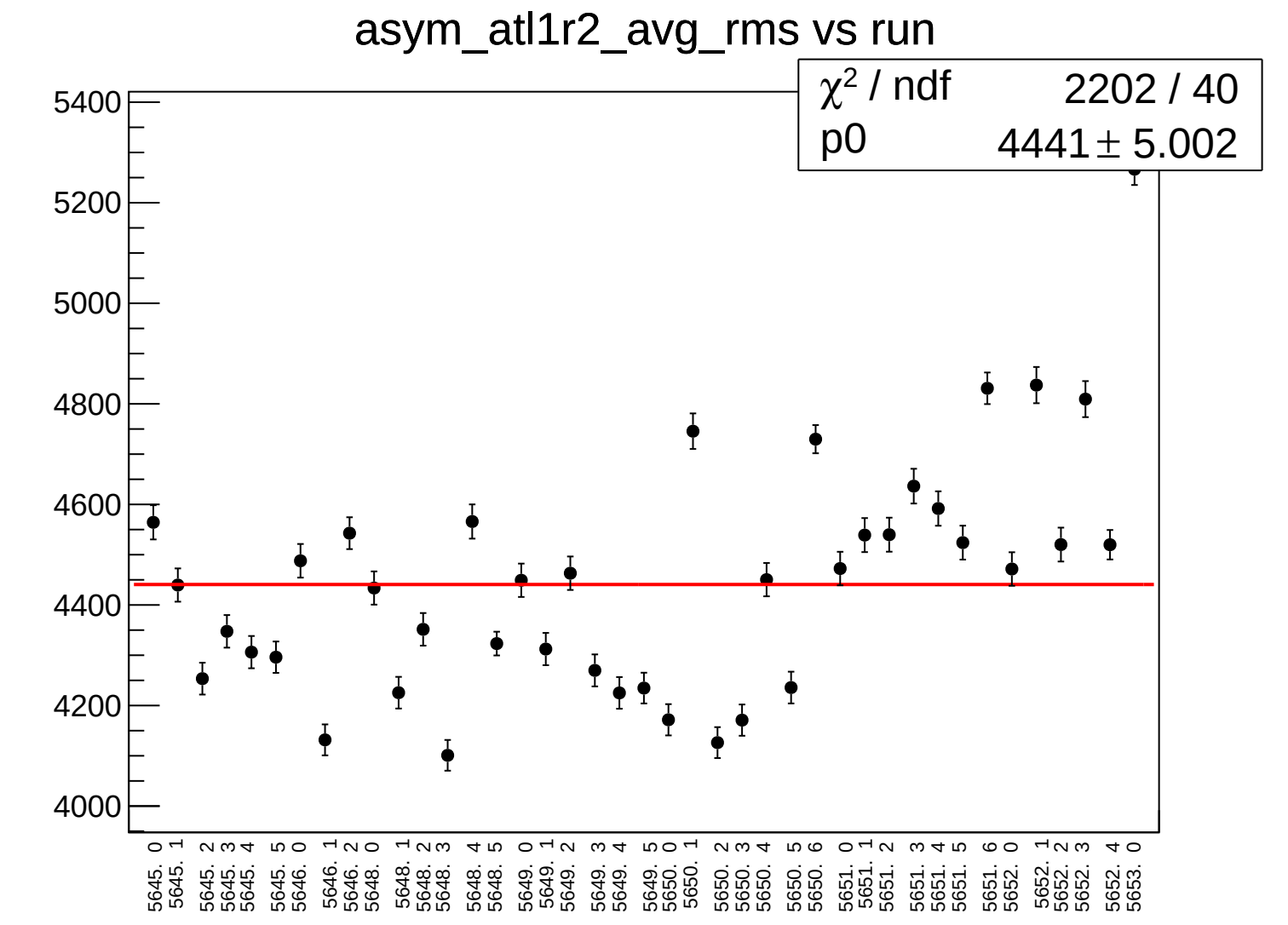

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 94.34 / 40
p0 1961 ± 2.206
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

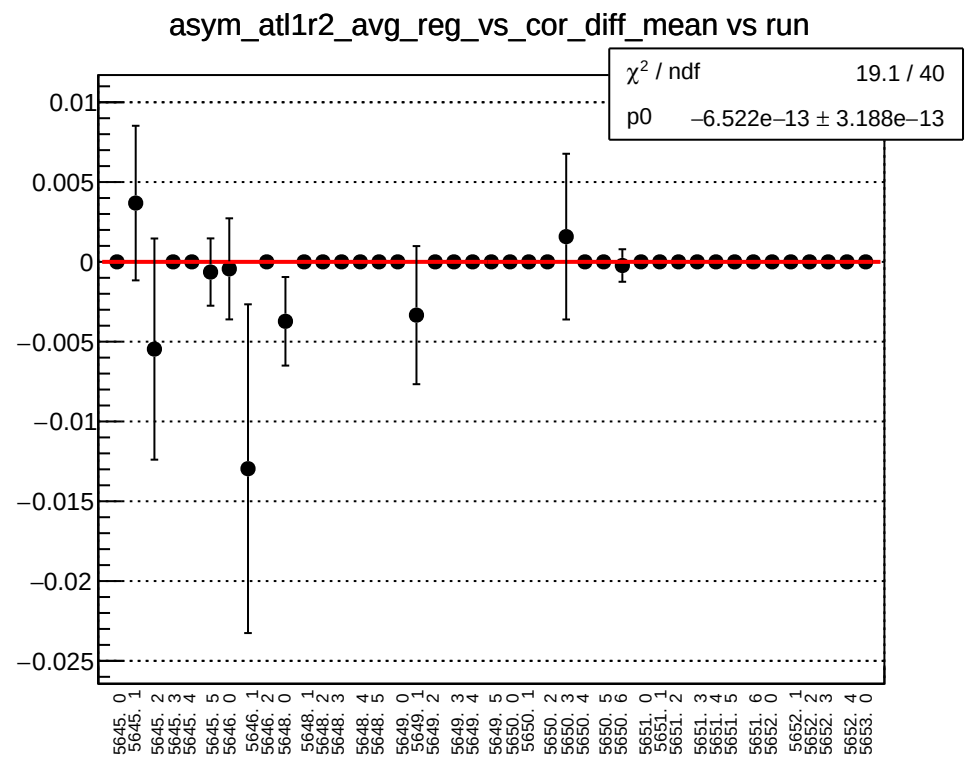

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 35.62 / 40
p0 −6742 ± 6282
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.94
Std Dev 33.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.03073
Std Dev 0.9316
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

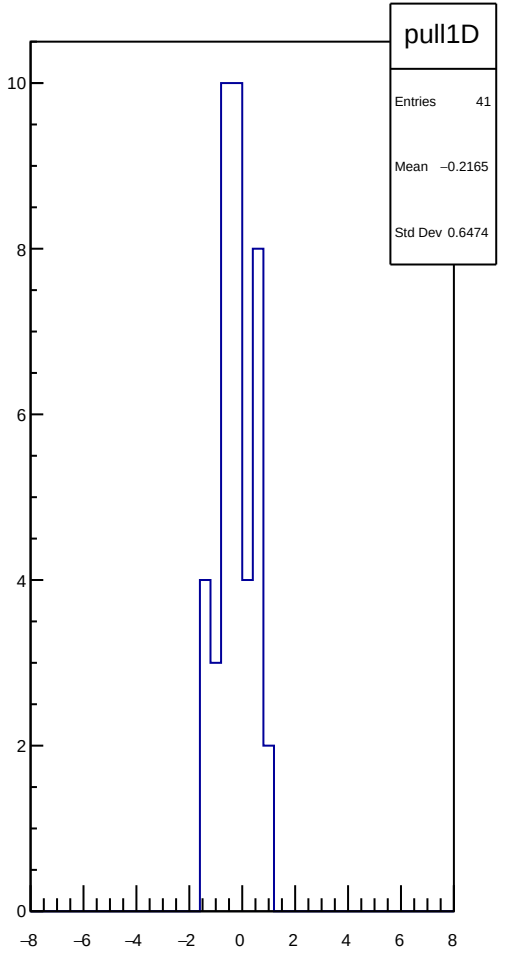

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4165 / 40
p0 3939 ± 4.442
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

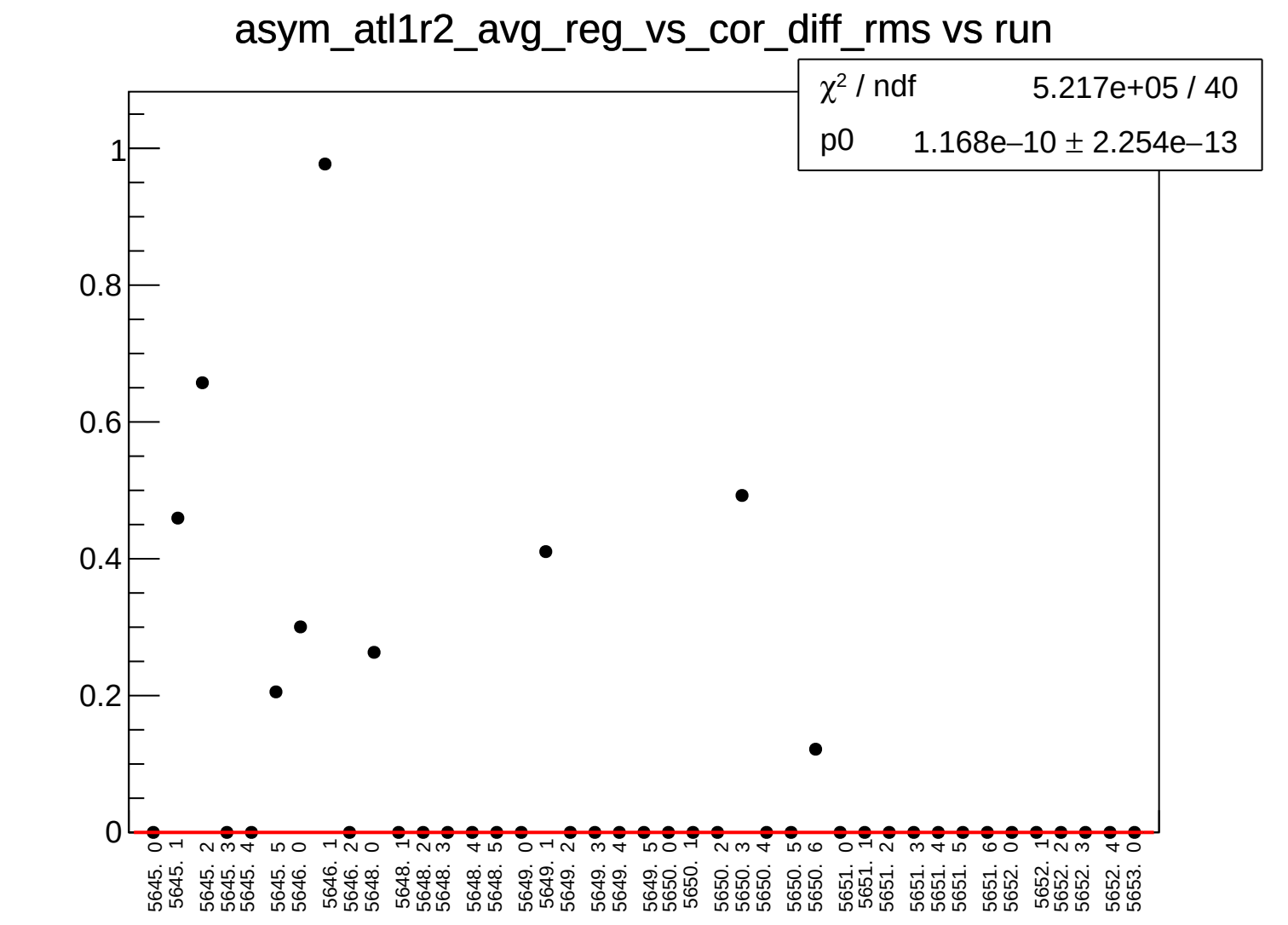

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 36.42 / 40
p0 6917 ± 7074
150
100
50
0
−50
−100
−150
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 77.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

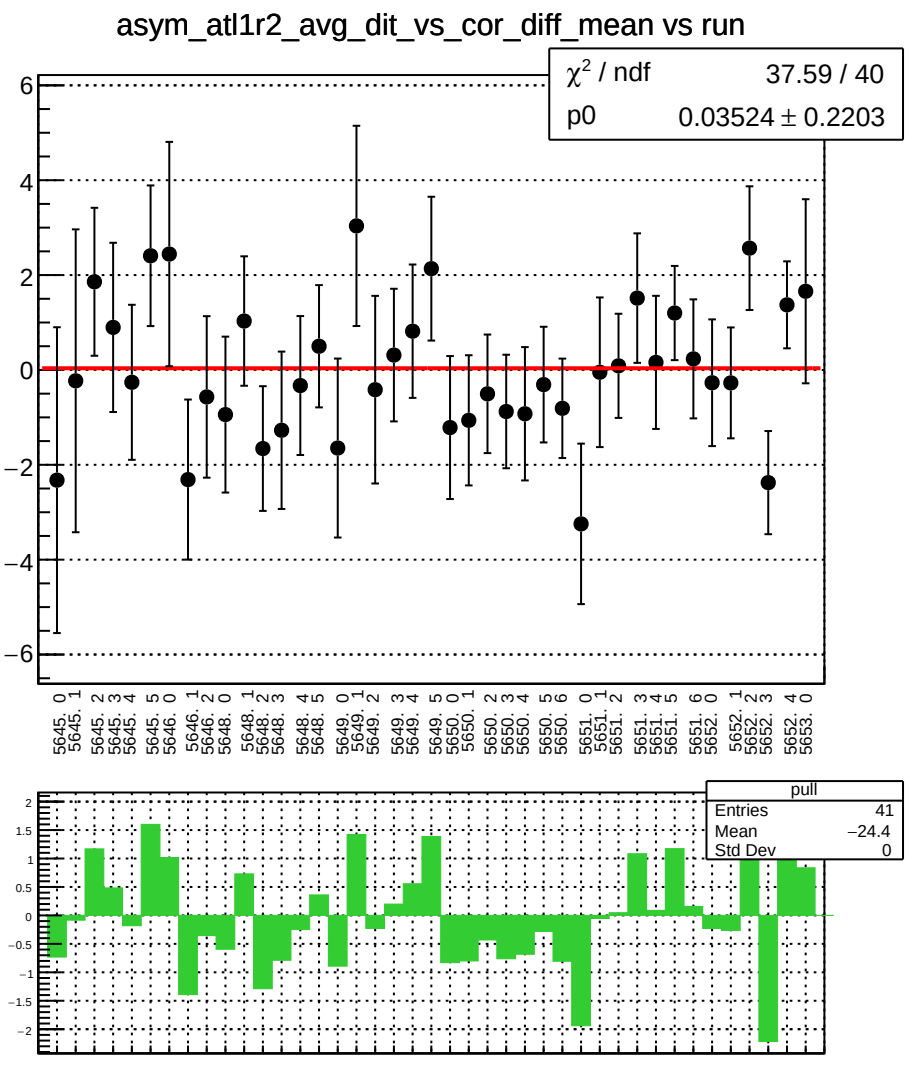

pull1D
Entries 41
Mean −0.02883
Std Dev 0.9421
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

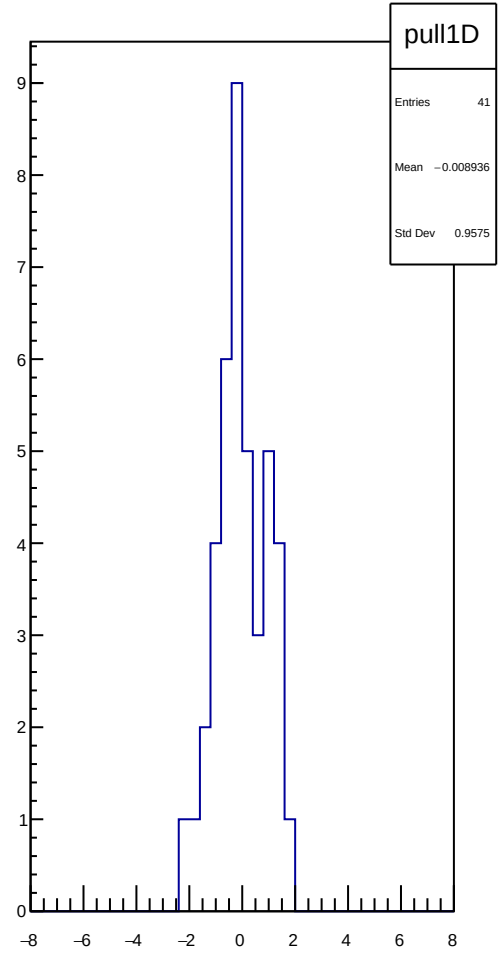

asym_atl1r2_avg_rms vs run
χ² / ndf 2202 / 40
p0 4441 ± 5.002
5400
5200
5000
4800
4600
4400
4200
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

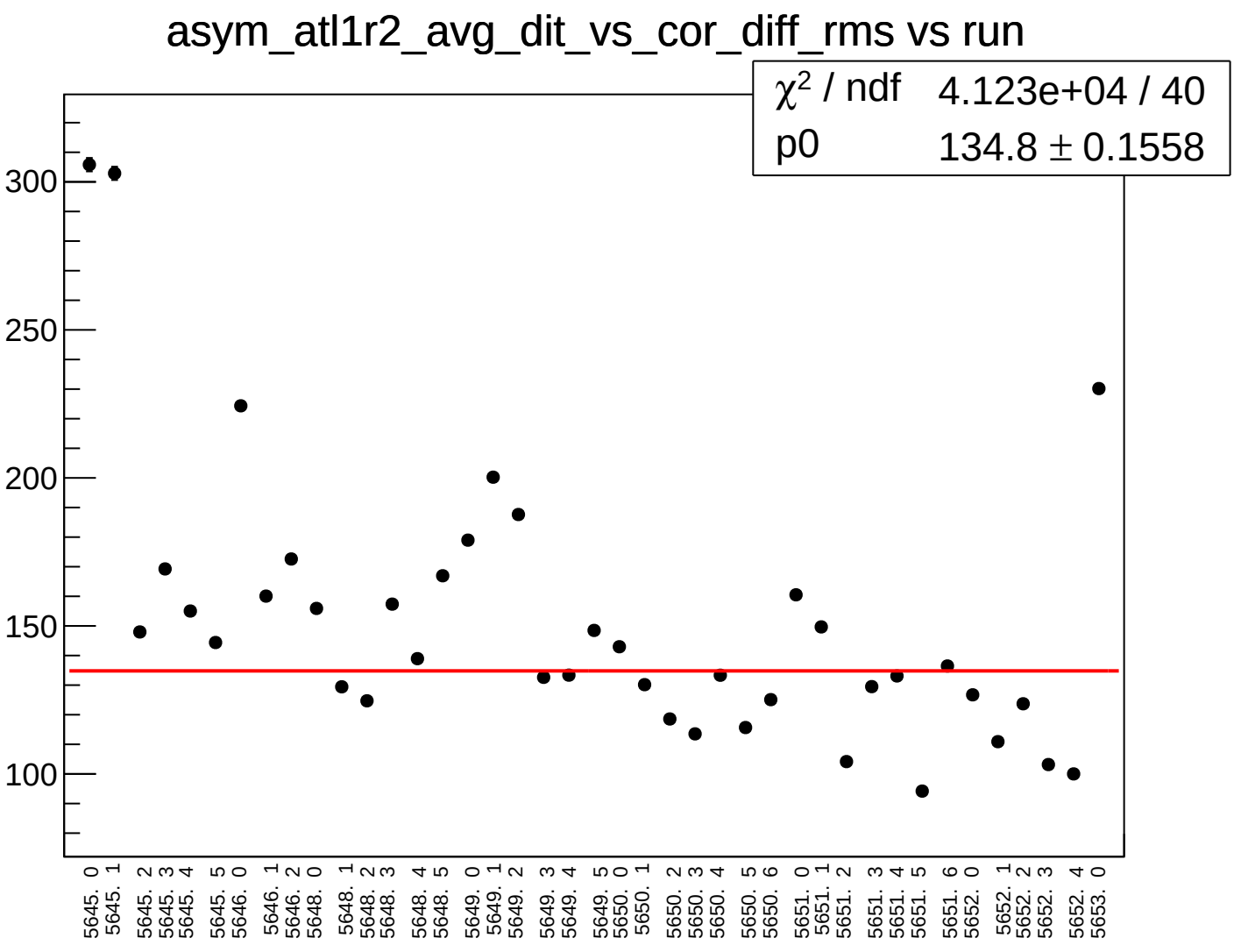

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.1 / 40
p0 −6.522e−13 ± 3.188e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.86
Std Dev 12.74
1
0.5
0
−0.5
−1

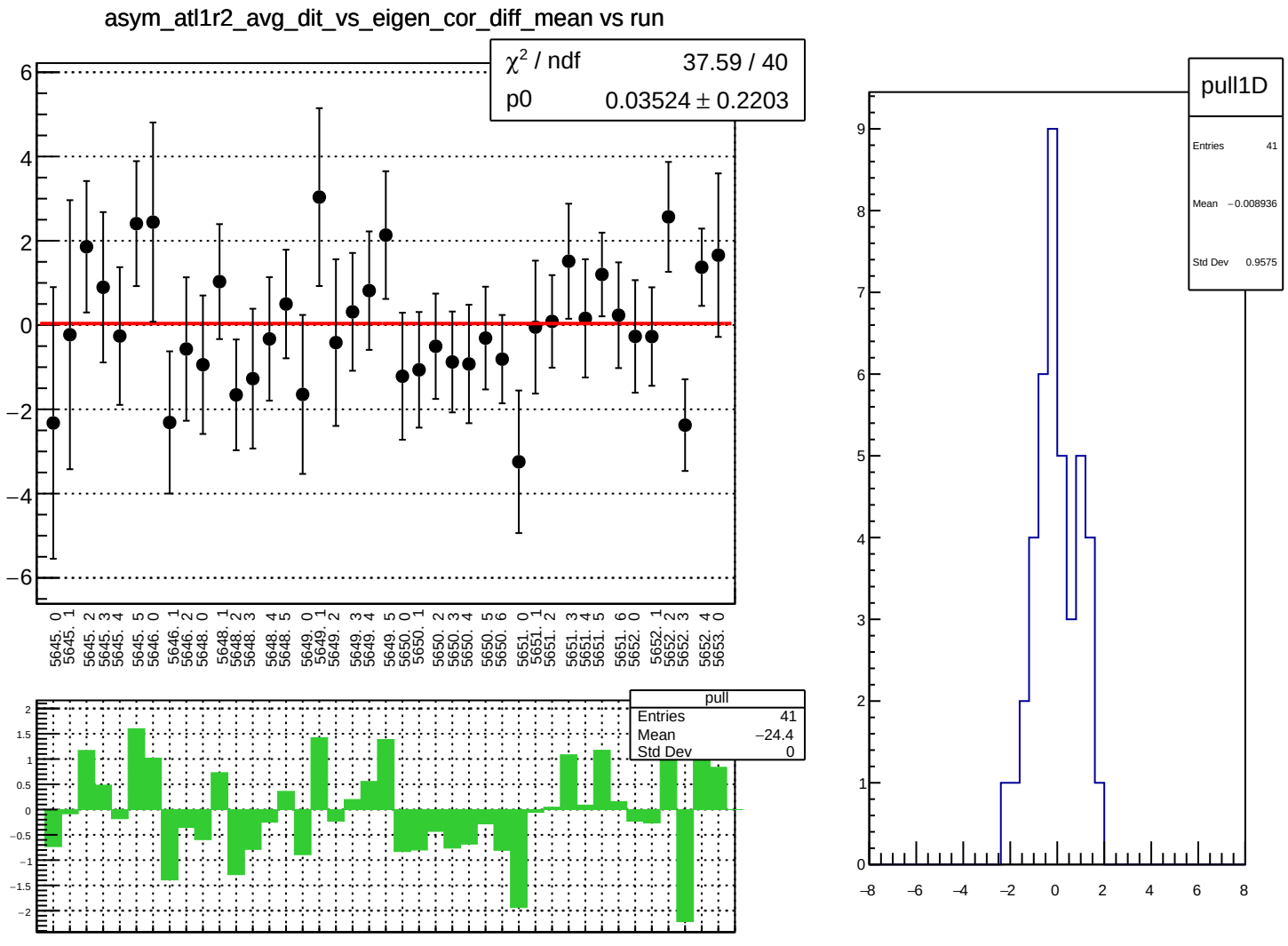

pull1D
Entries 41
Mean −0.2165
Std Dev 0.6474
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

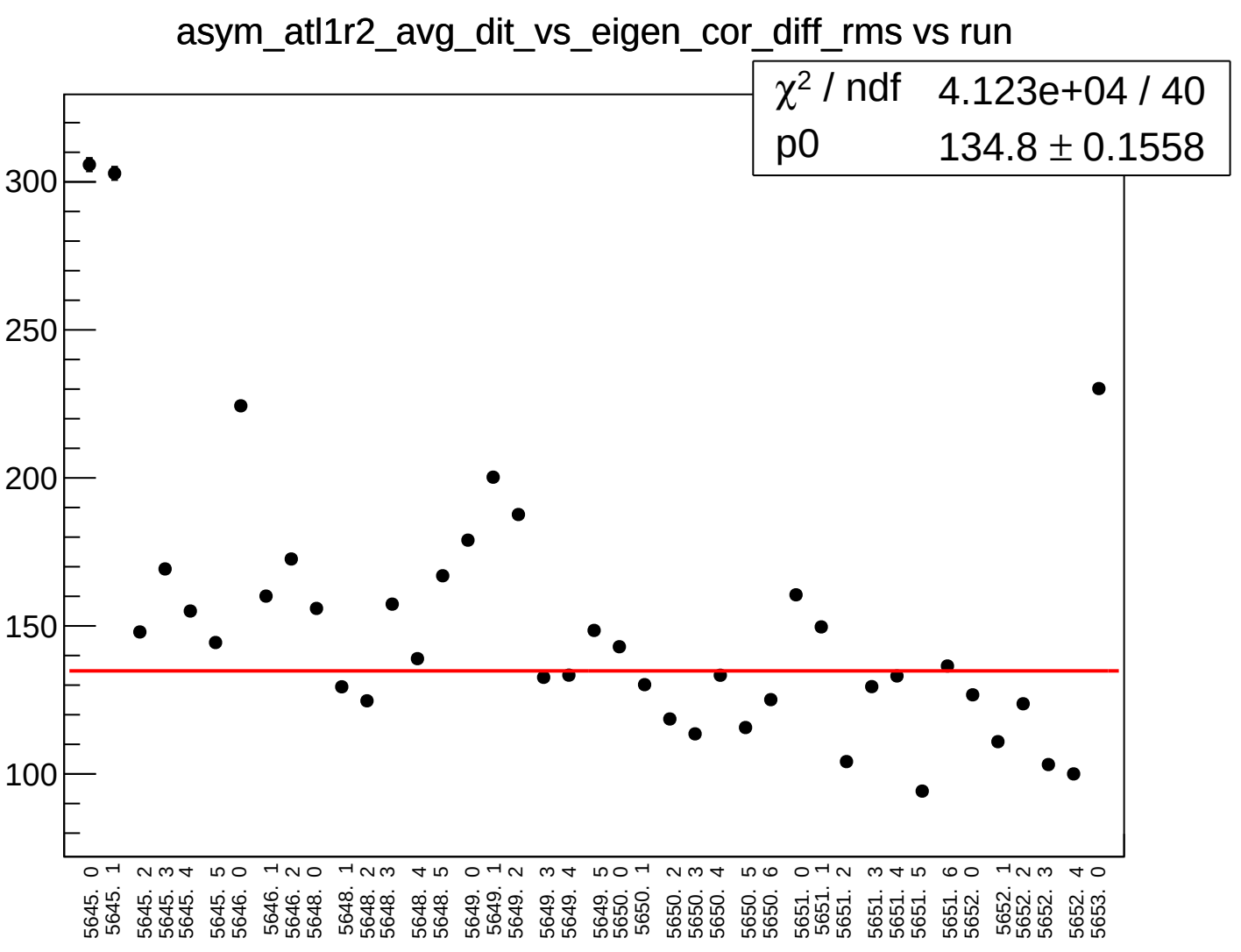

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.217e+05 / 40
p0 1.168e−10 ± 2.254e−13
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

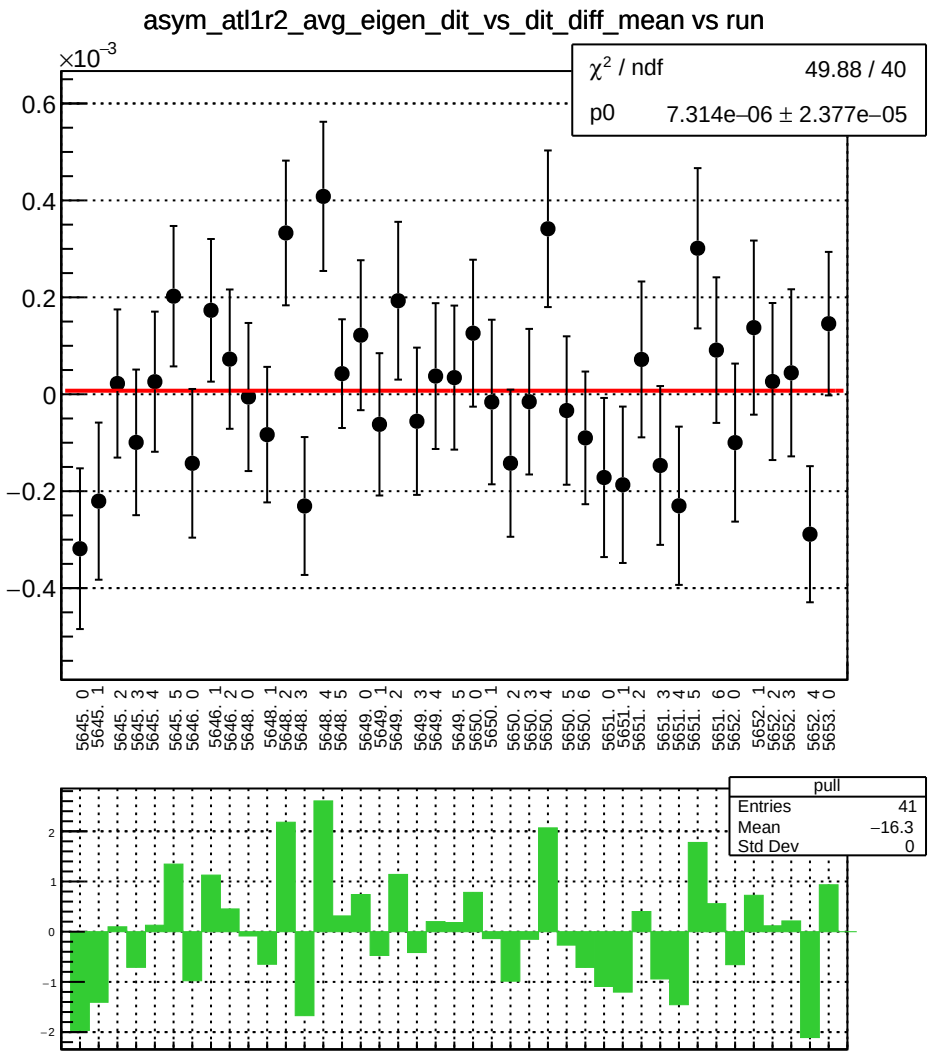

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.59 / 40
p0 0.03524 ± 0.2203
pull
Entries 41
Mean −24.4
Std Dev 0

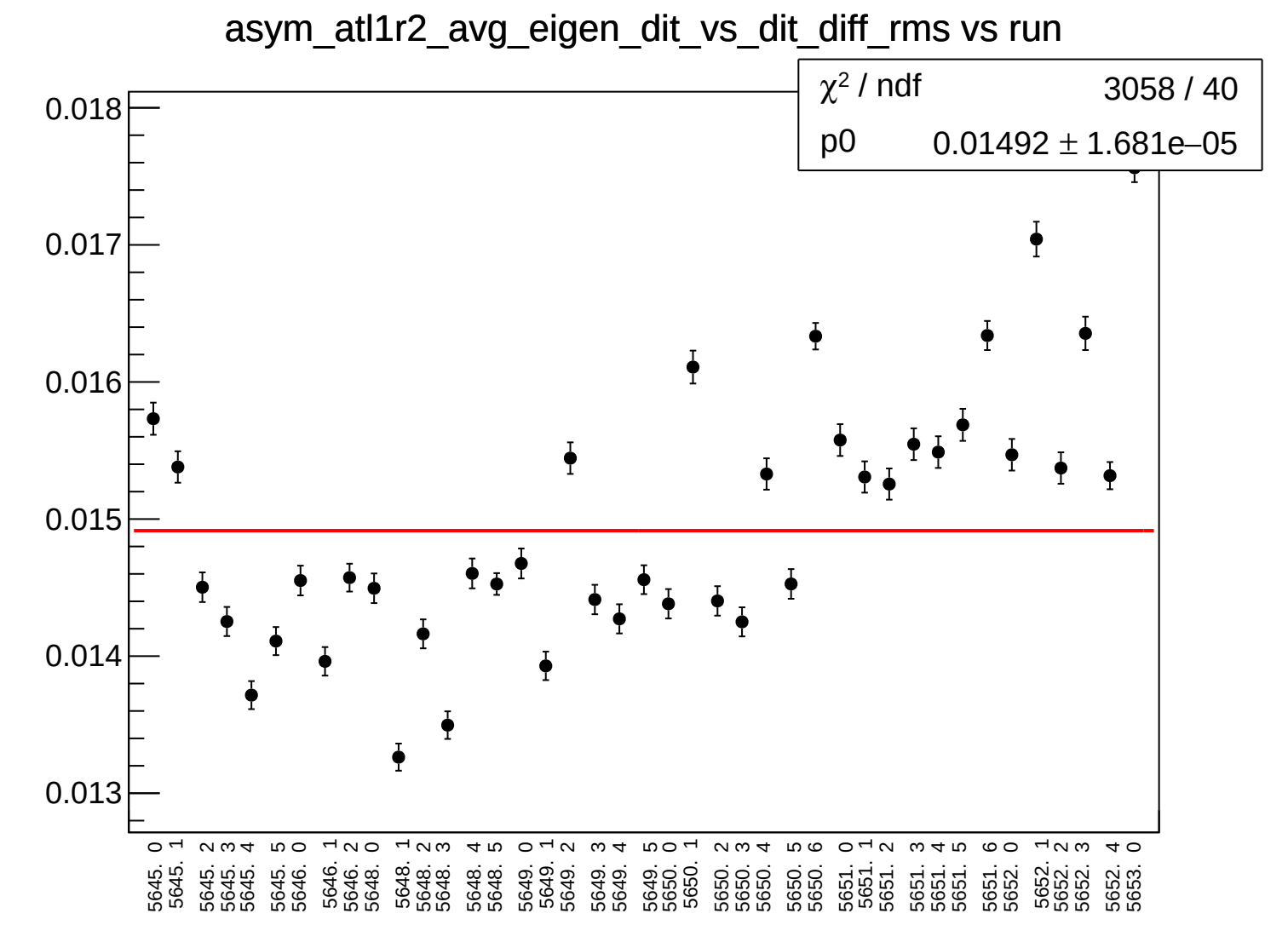

pull1D
Entries 41
Mean −0.008936
Std Dev 0.9575

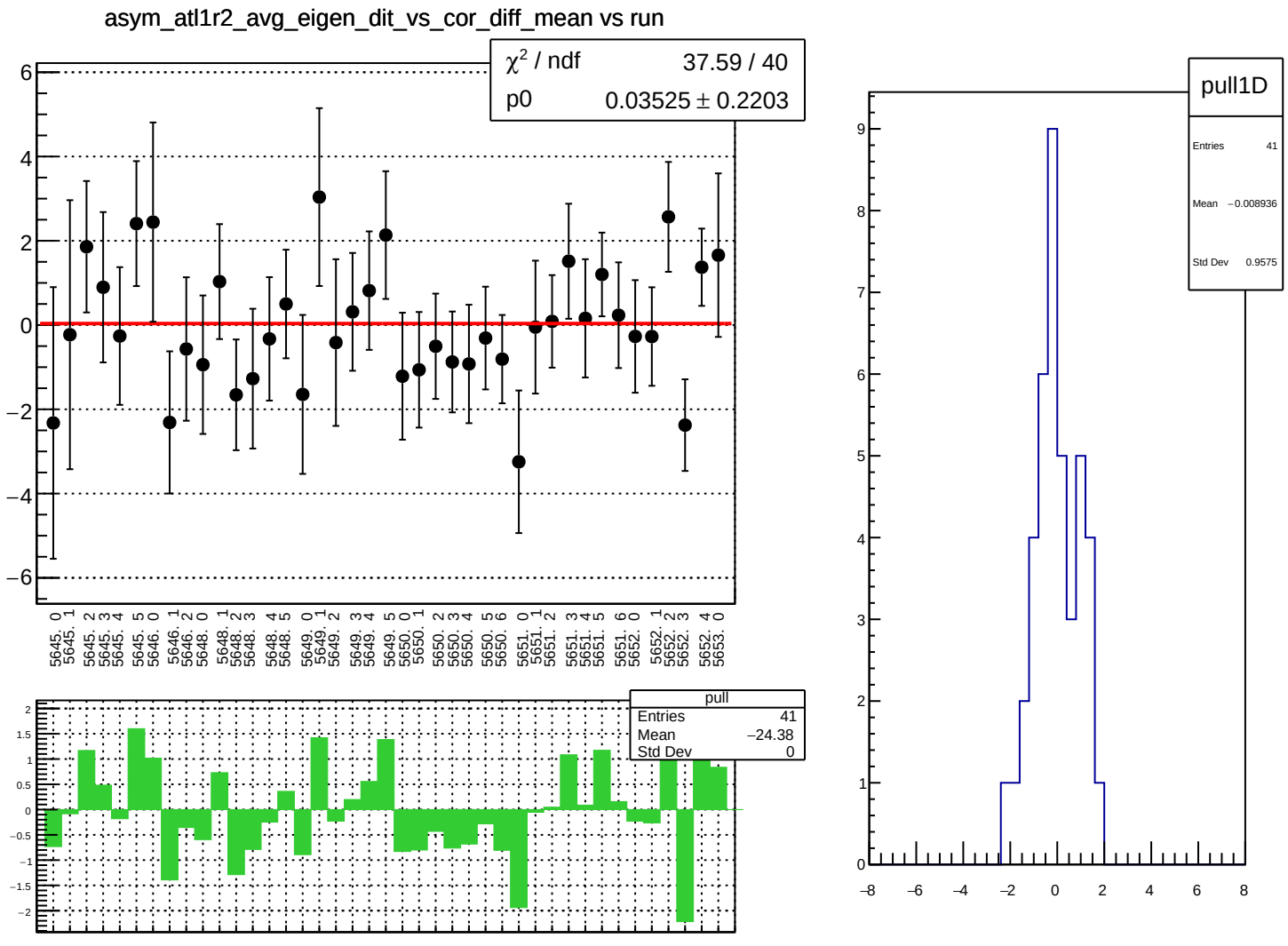

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.123e+04 / 40
p0 134.8 ± 0.1558
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

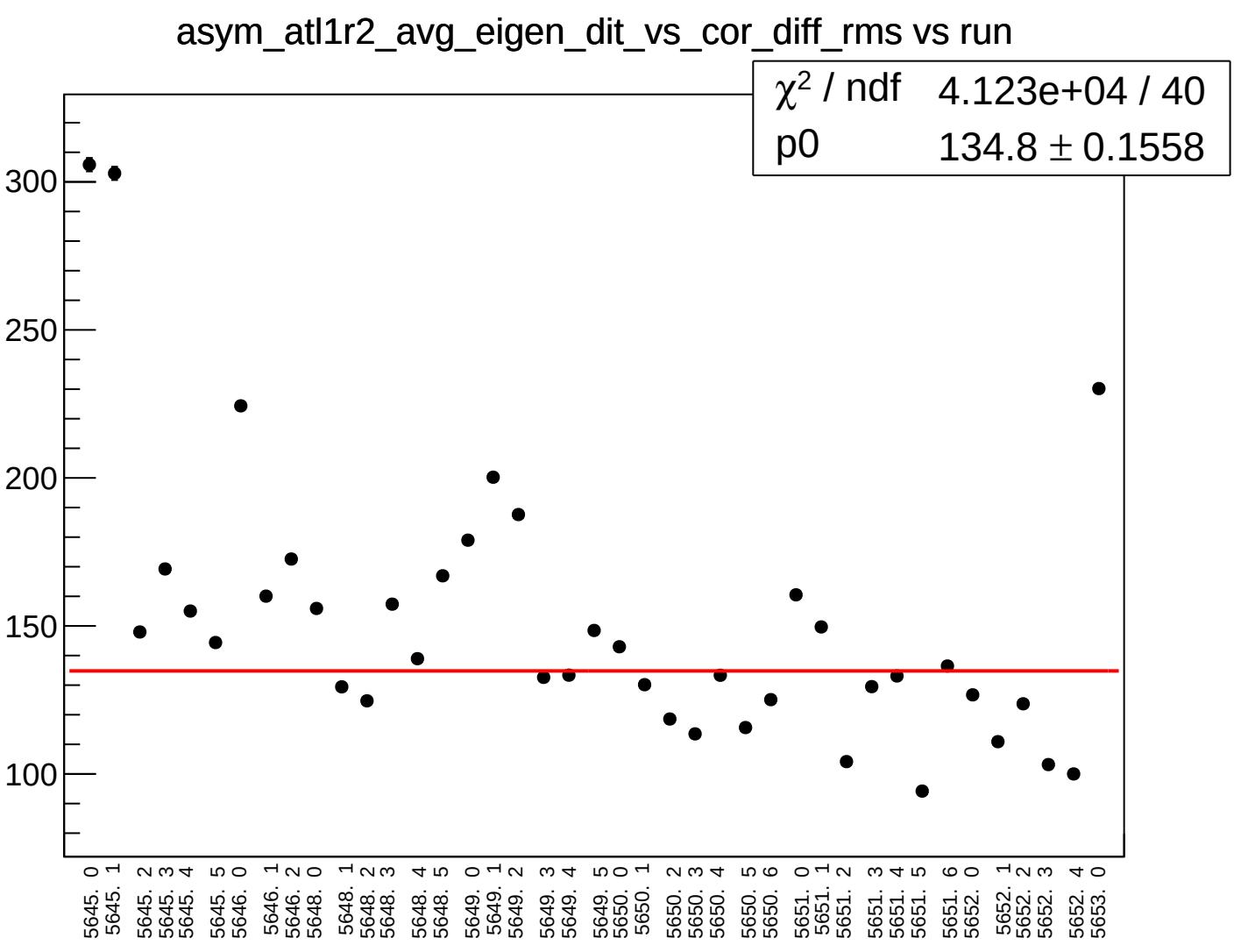

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.59 / 40
p0 0.03524 ± 0.2203
pull
Entries 41
Mean −24.4
Std Dev 0
pull1D
Entries 41
Mean −0.008936
Std Dev 0.9575

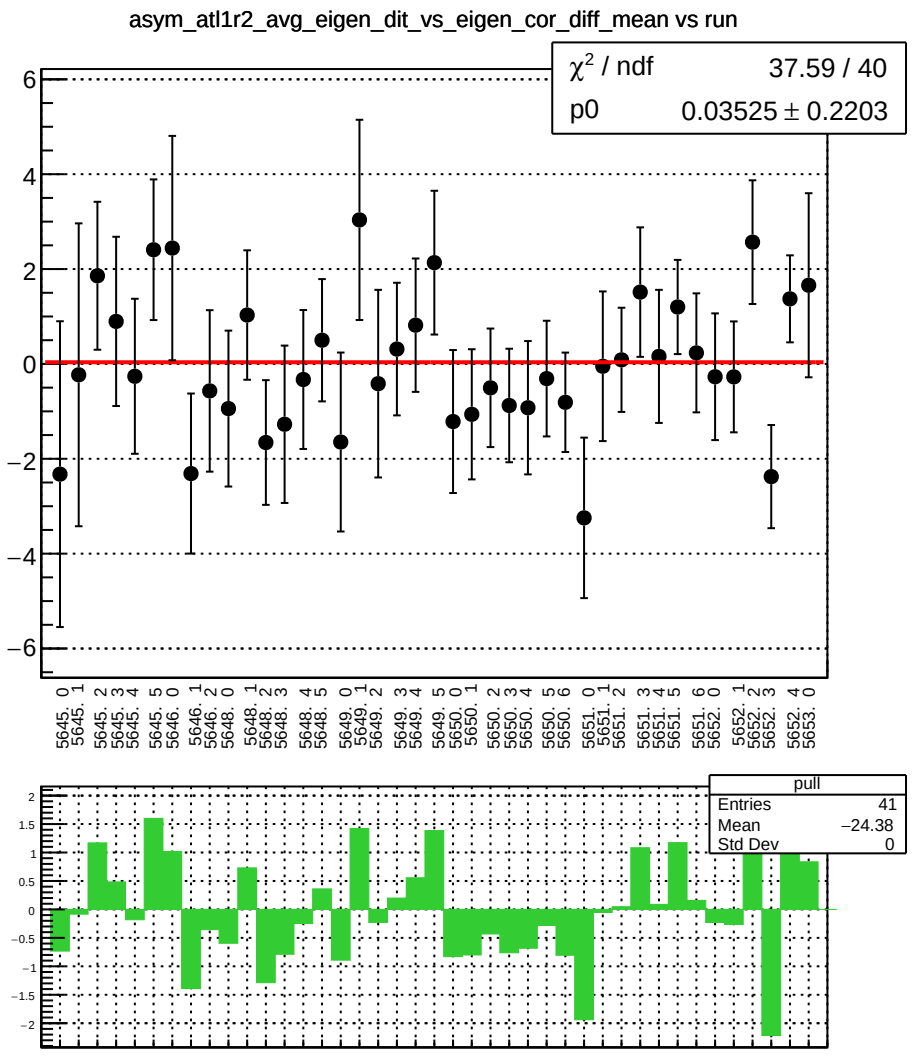

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.123e+04 / 40
p0 134.8 ± 0.1558
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

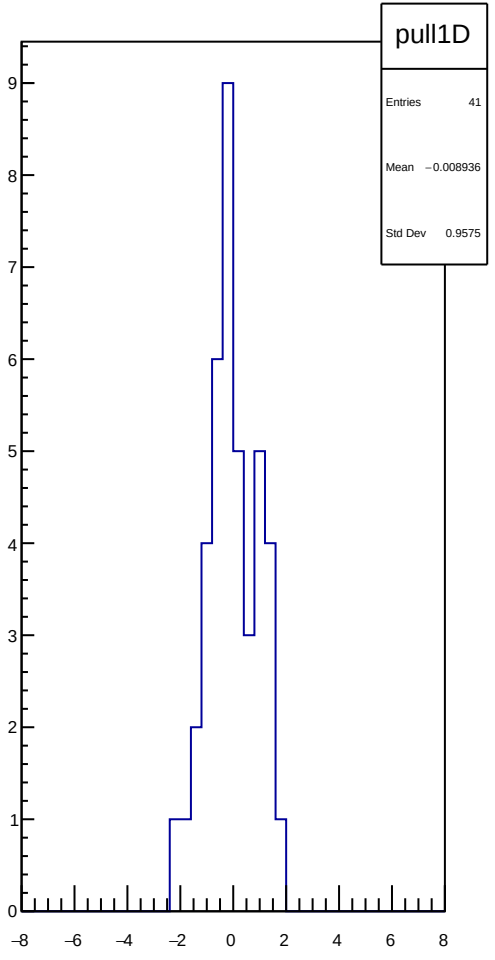

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.88 / 40
p0 7.314e−06 ± 2.377e−05
0.6
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −16.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0009162
Std Dev 1.103
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

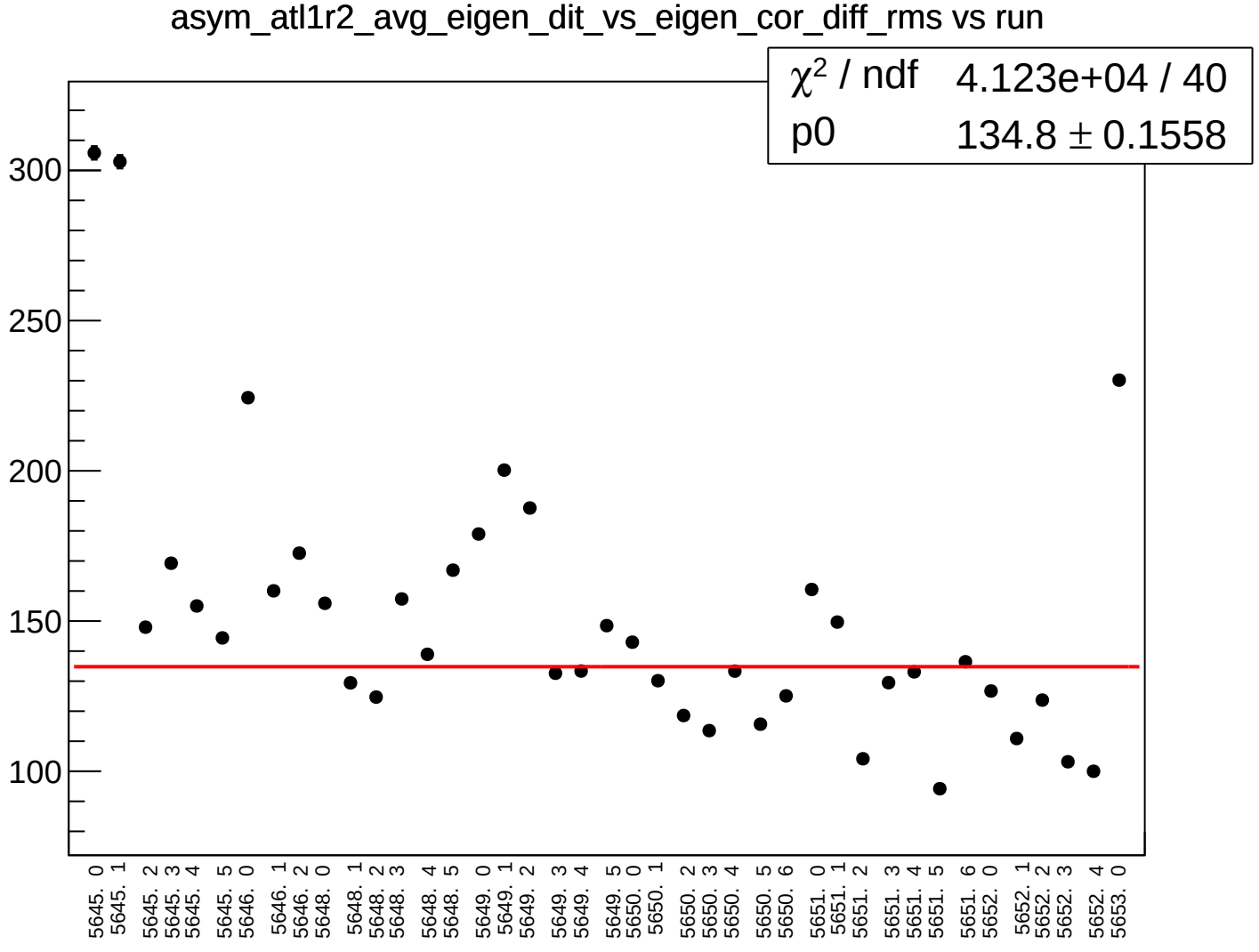

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3058 / 40
p0 0.01492 ± 1.681e–05
0.018
0.017
0.016
0.015
0.014
0.013
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

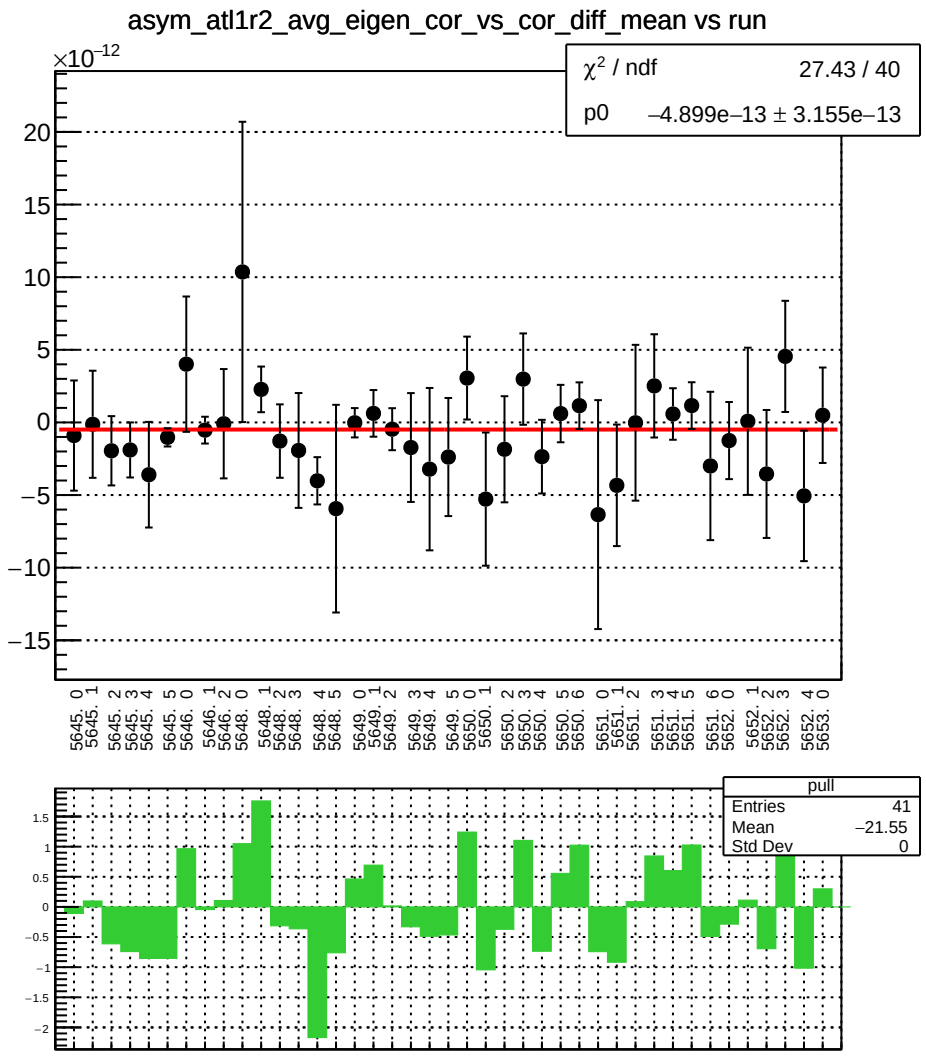

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.59 / 40
p0 0.03525 ± 0.2203
pull
Entries 41
Mean −24.38
Std Dev 0
pull1D
Entries 41
Mean −0.008936
Std Dev 0.9575

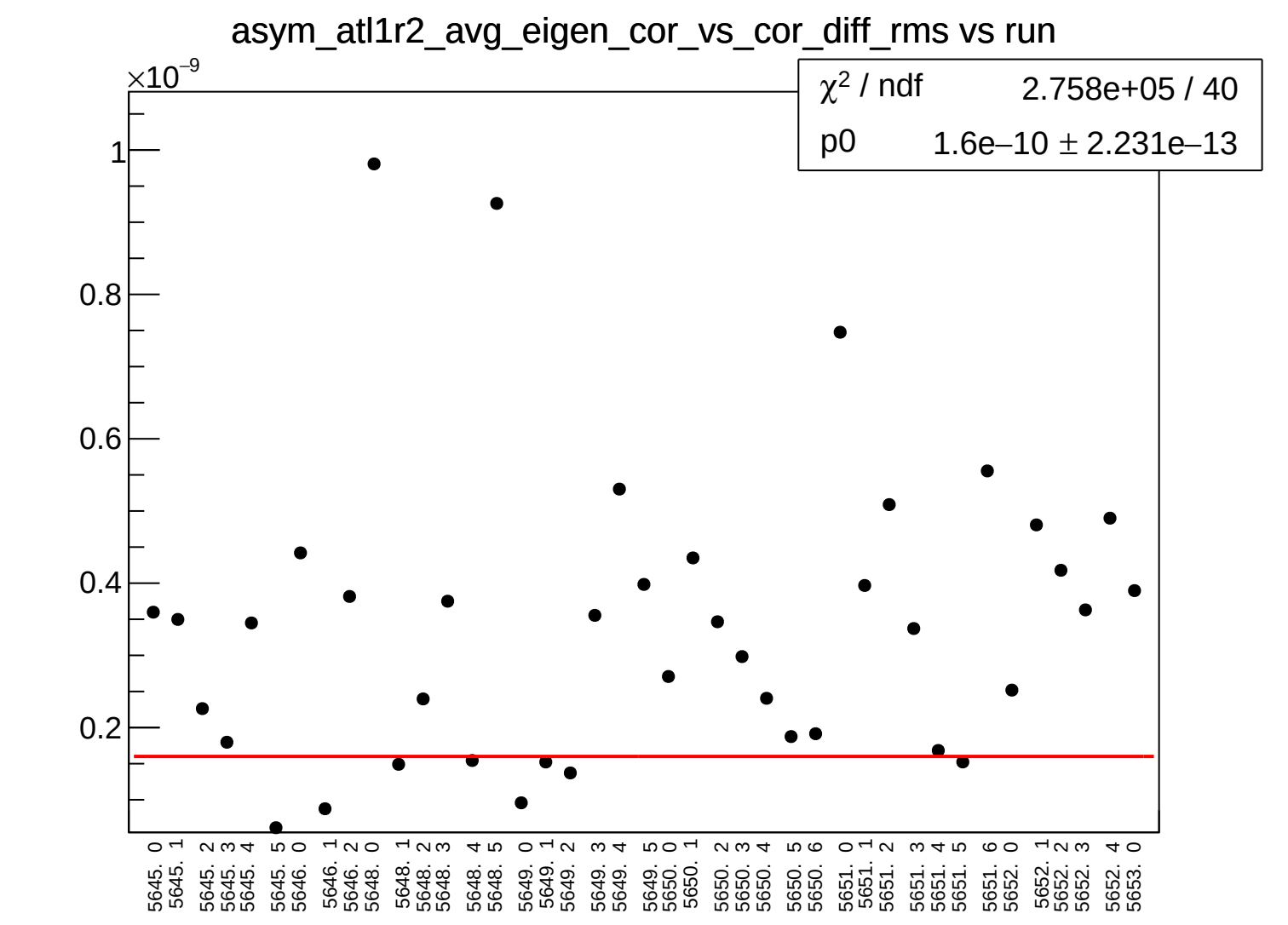

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.123e+04 / 40
p0 134.8 ± 0.1558
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

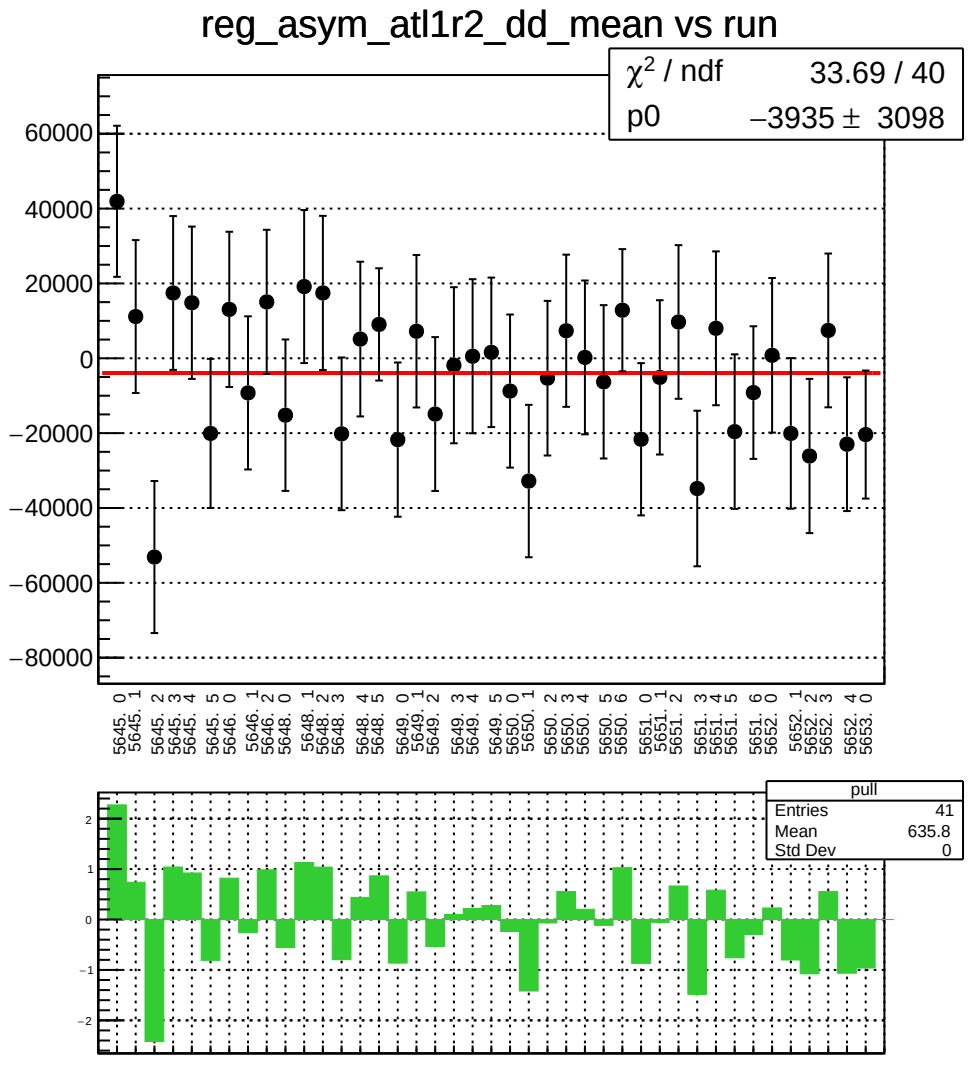

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.59 / 40
p0 0.03525 ± 0.2203
pull
Entries 41
Mean −24.38
Std Dev 0

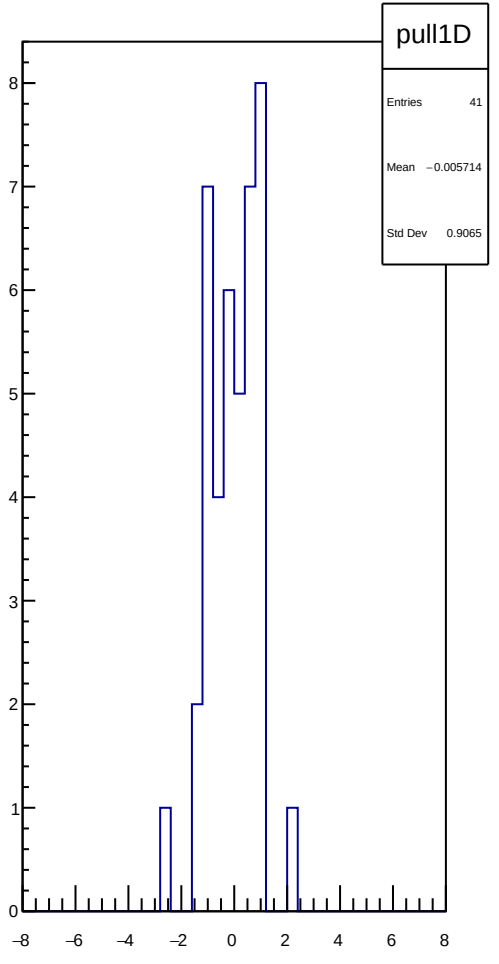

pull1D
Entries 41
Mean −0.008936
Std Dev 0.9575

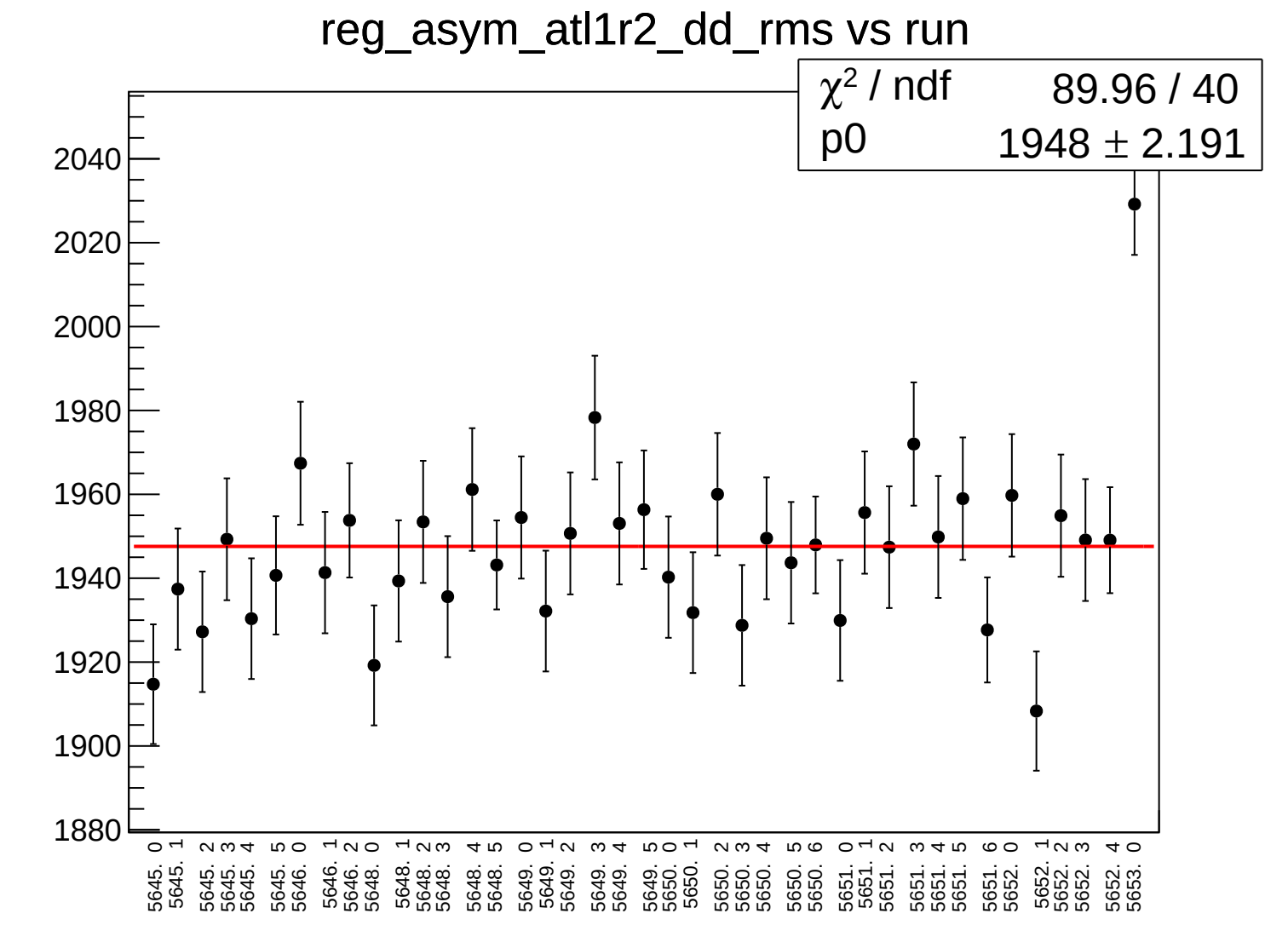

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.123e+04 / 40
p0 134.8 ± 0.1558
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

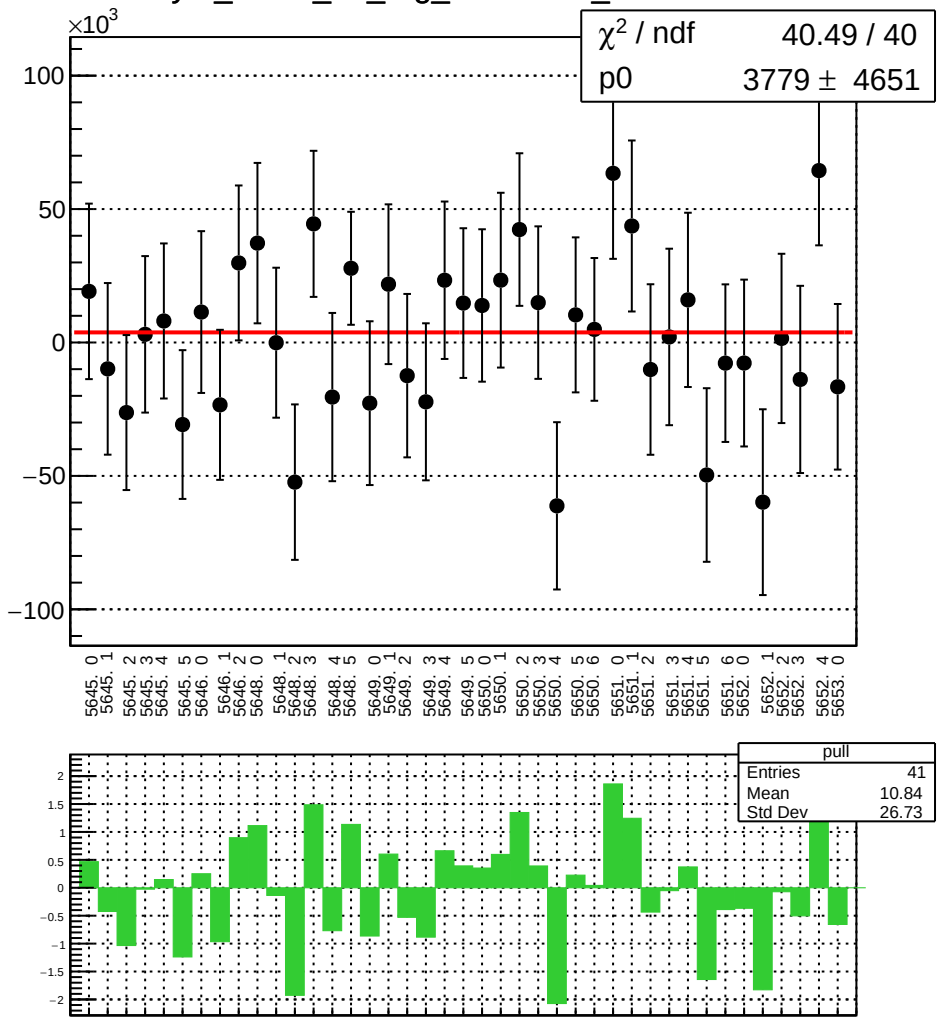

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.43 / 40
p0 −4.899e−13 ± 3.155e−13
20
15
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −21.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02531
Std Dev 0.8175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

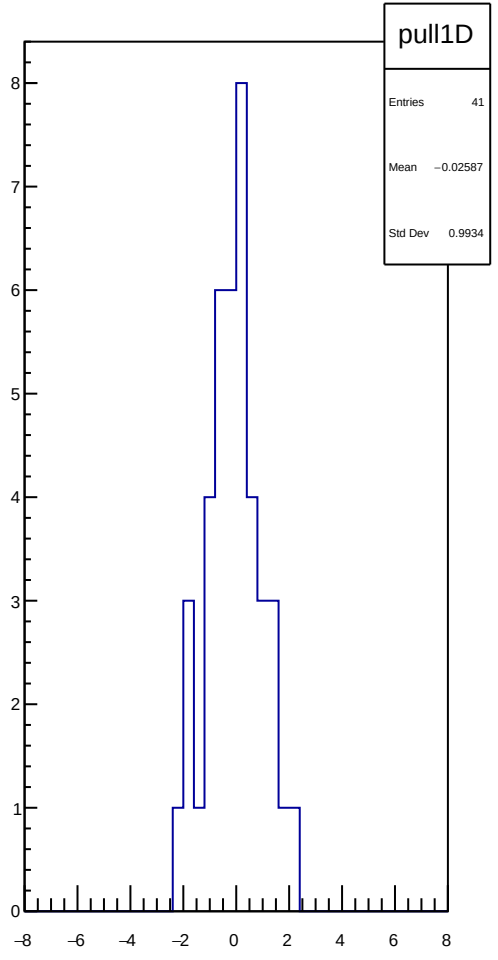

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.758e+05 / 40
p0 1.6e−10 ± 2.231e−13
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

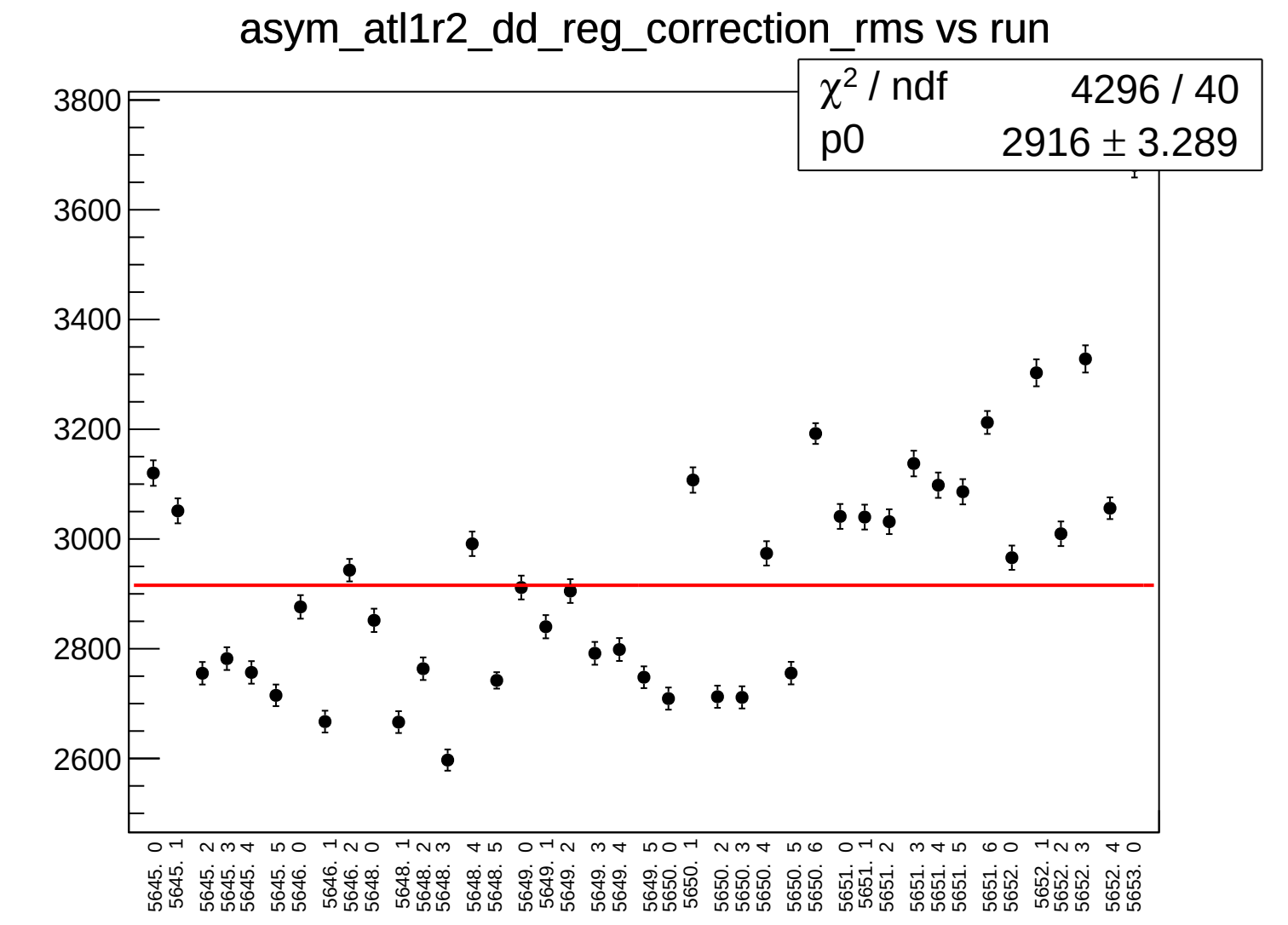

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 33.69 / 40
p0 −3935 ± 3098
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 635.8
Std Dev 0
2
1
0
−1
−2

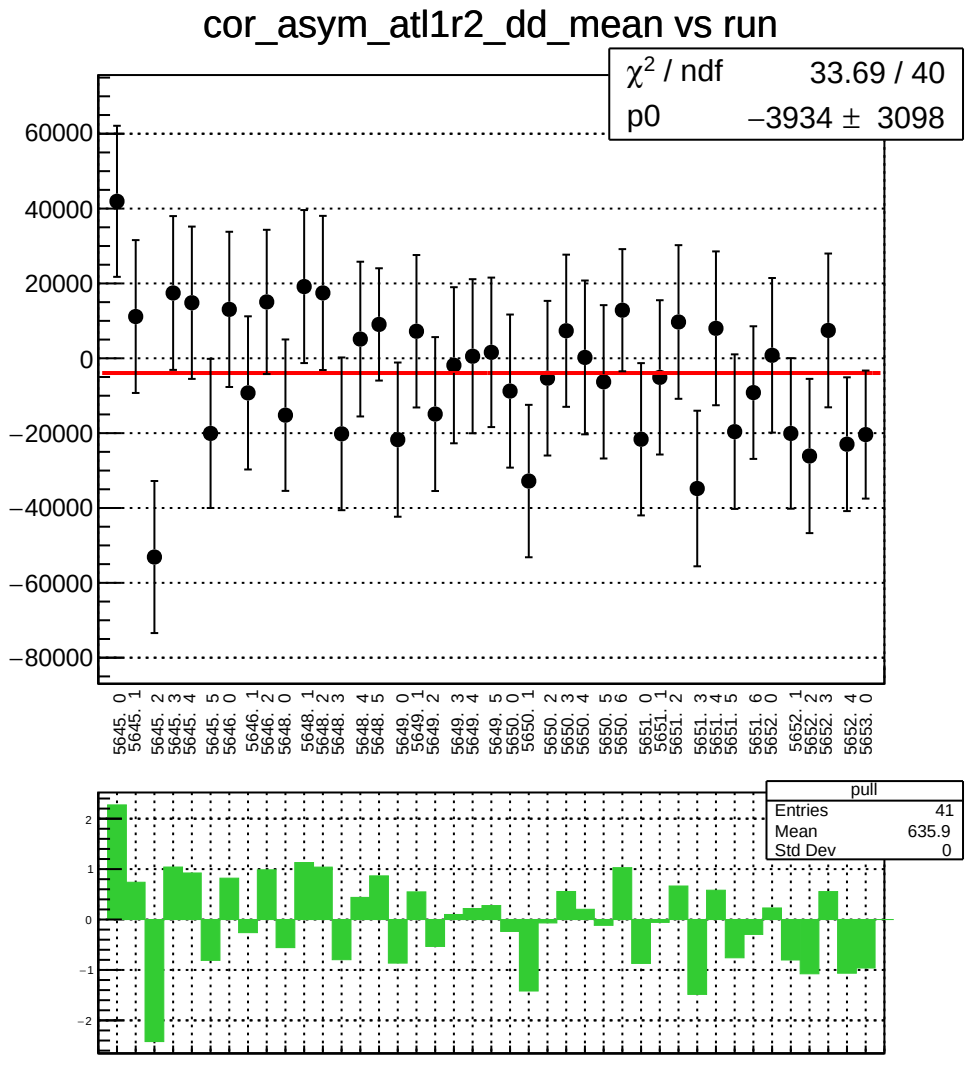

pull1D
Entries 41
Mean −0.005714
Std Dev 0.9065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

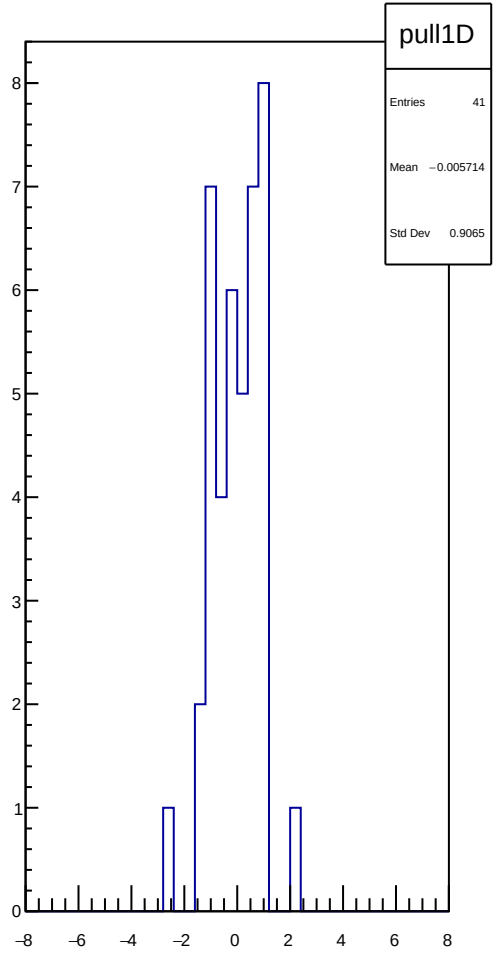

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 89.96 / 40
p0 1948 ± 2.191
2040
2020
2000
1980
1960
1940
1920
1900
1880
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

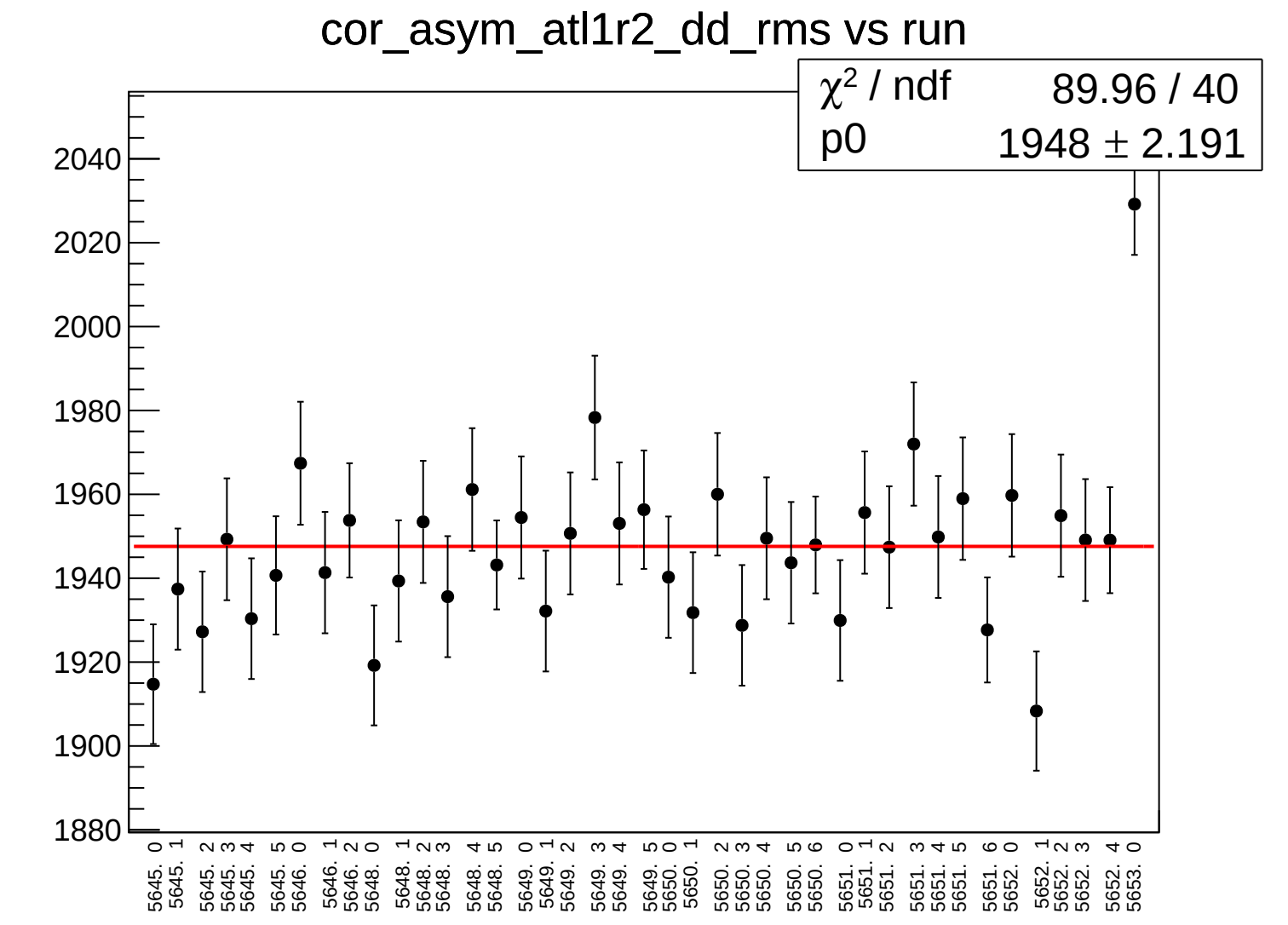

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 40.49 / 40
p0 3779 ± 4651
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.84
Std Dev 26.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02587
Std Dev 0.9934
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 4296 / 40
p0 2916 ± 3.289
3800
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 33.69 / 40
p0 −3934 ± 3098
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 635.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.005714
Std Dev 0.9065
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 89.96 / 40
p0 1948 ± 2.191
2040
2020
2000
1980
1960
1940
1920
1900
1880
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
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5646. 2
5648. 0
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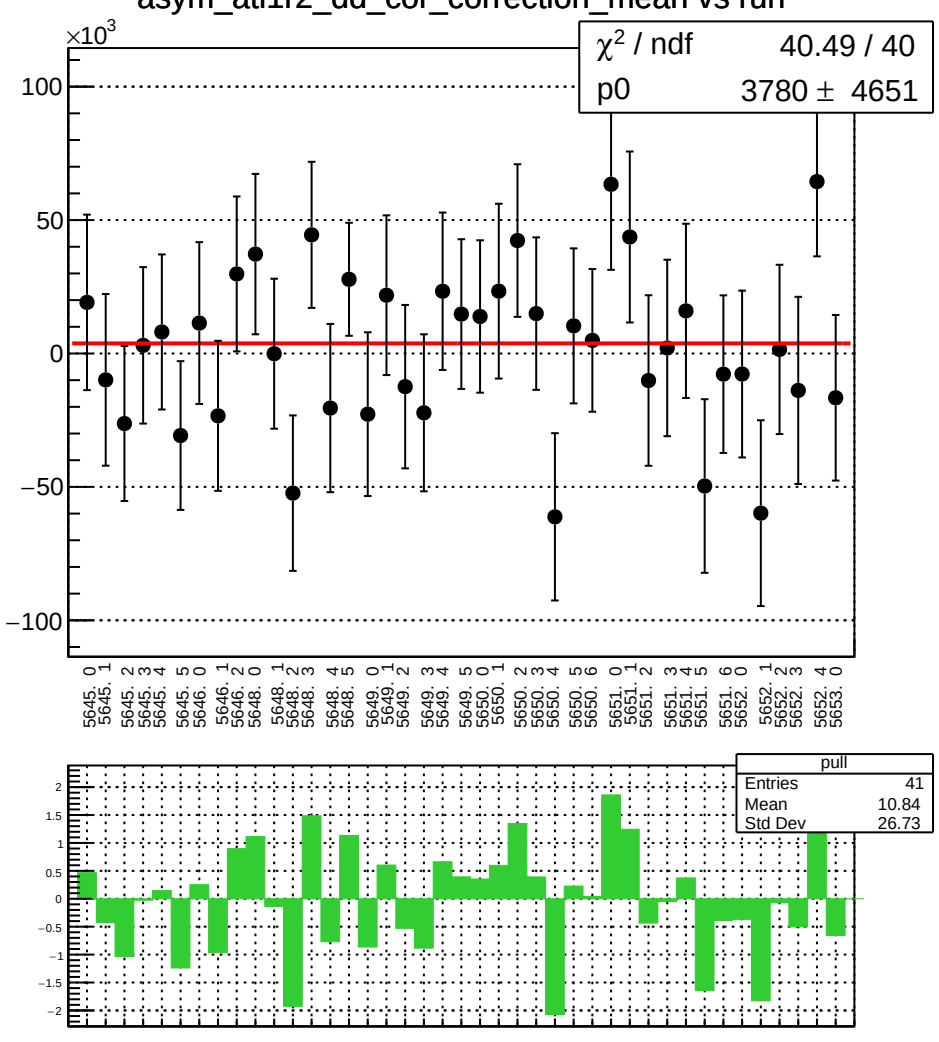
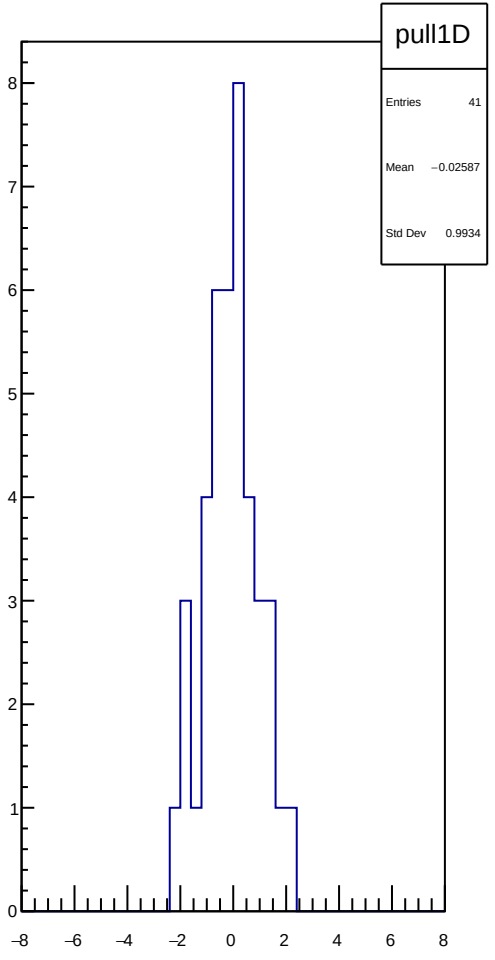
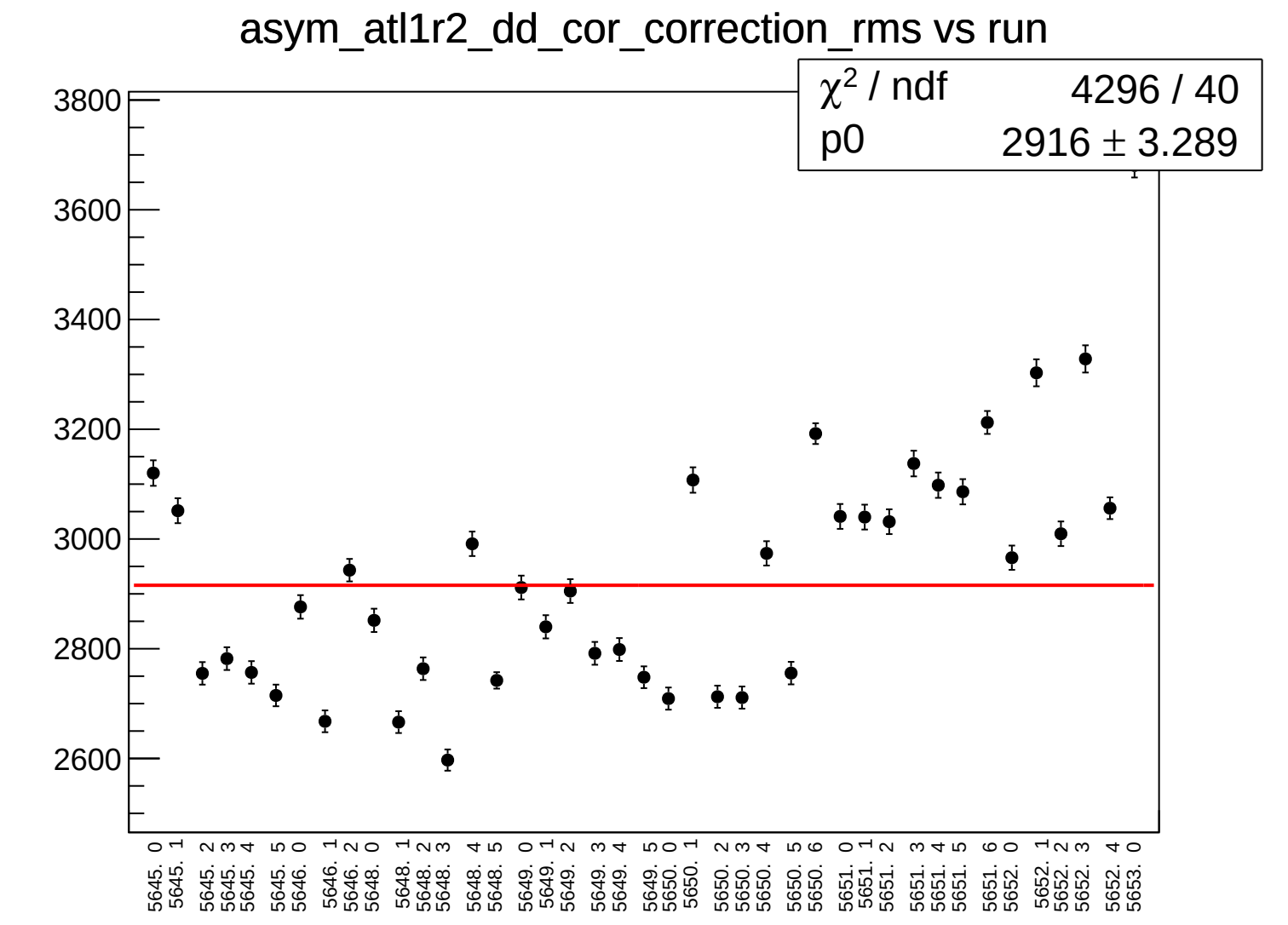
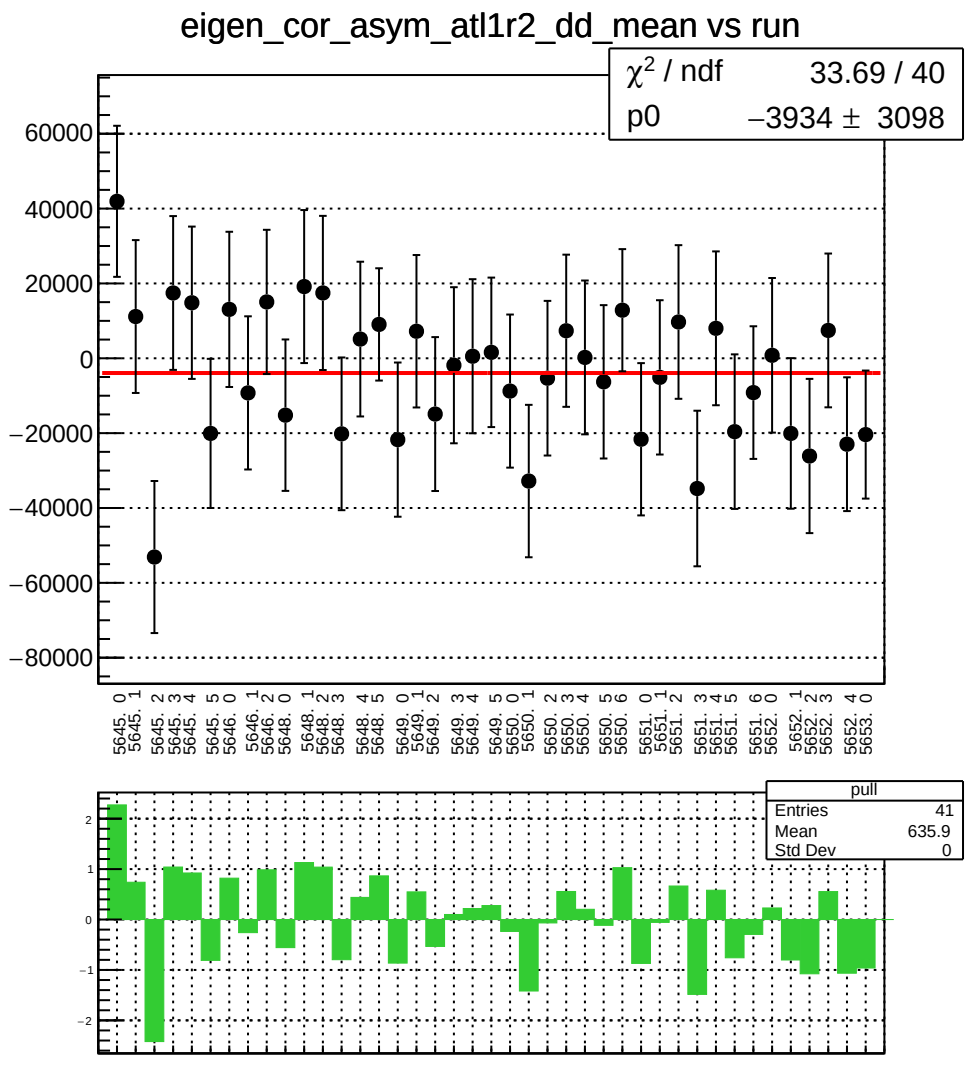
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 40.49 / 40
p0 3780 ± 4651
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.84
Std Dev 26.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02587
Std Dev 0.9934
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 4296 / 40
p0 2916 ± 3.289
3800
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 33.69 / 40
p0 −3934 ± 3098
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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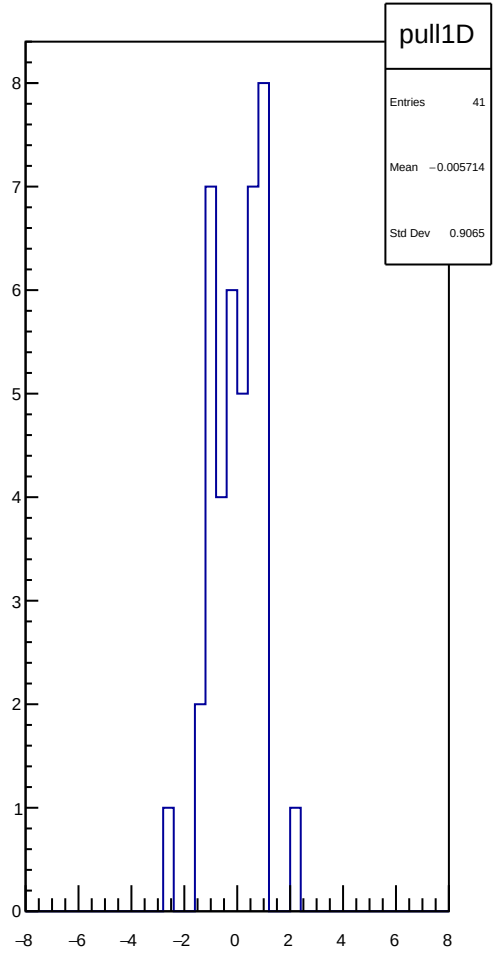
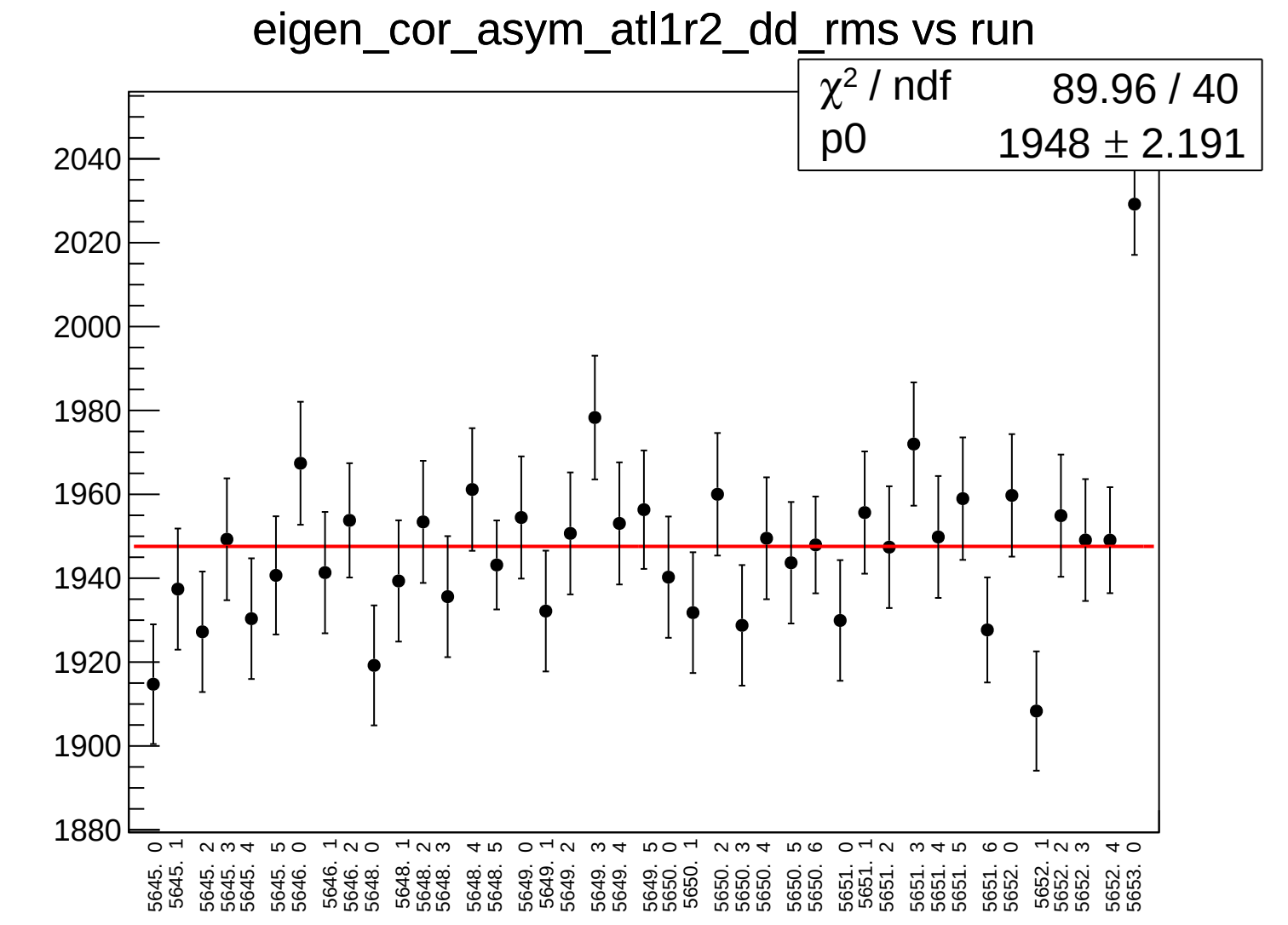
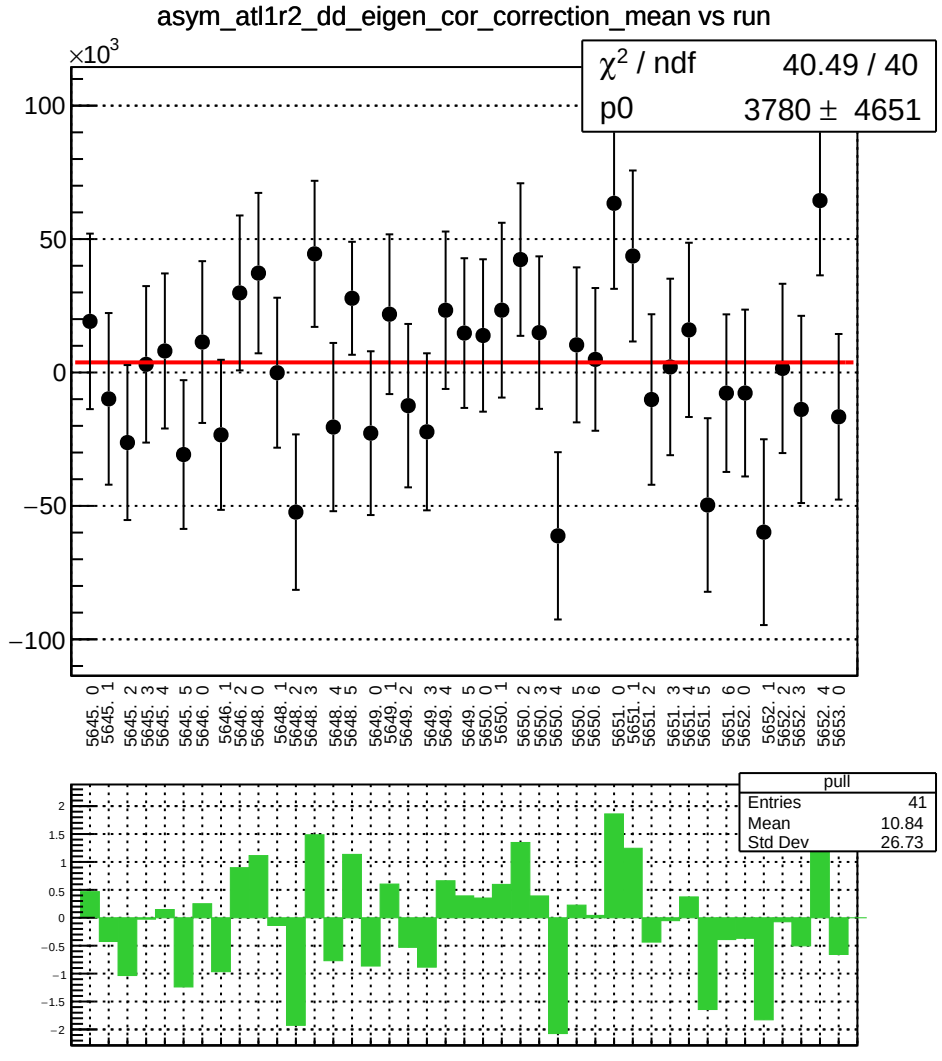
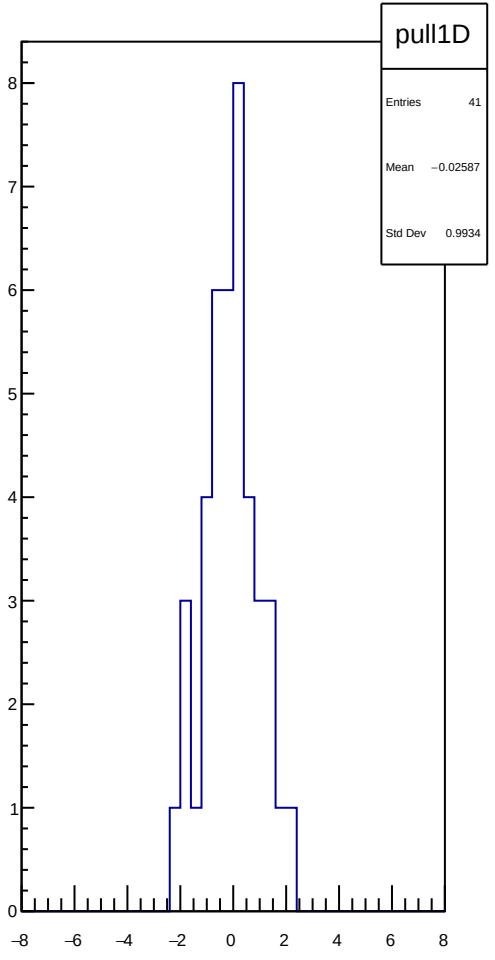
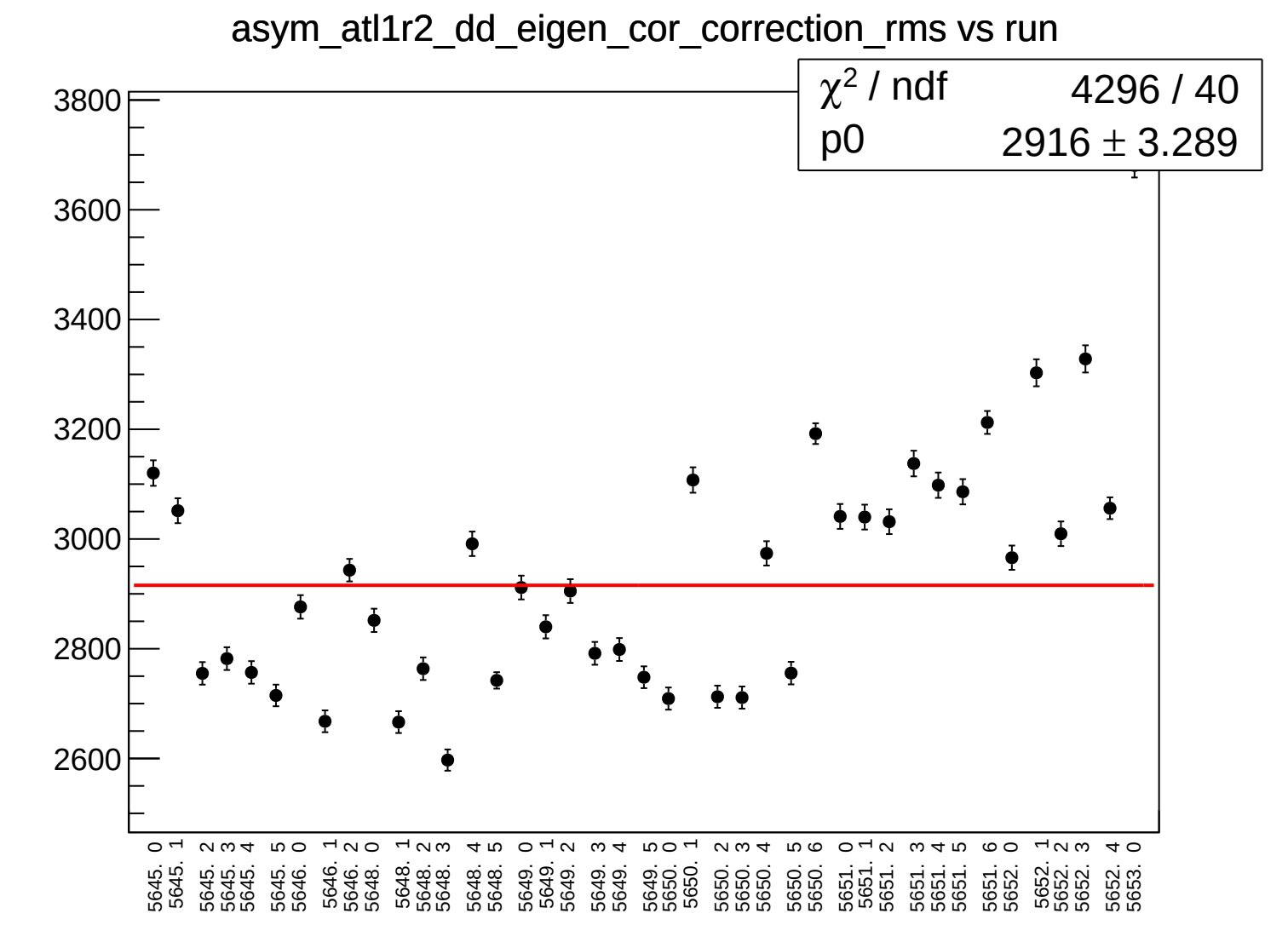
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 635.9
Std Dev 0
2
1
0
−1
−2

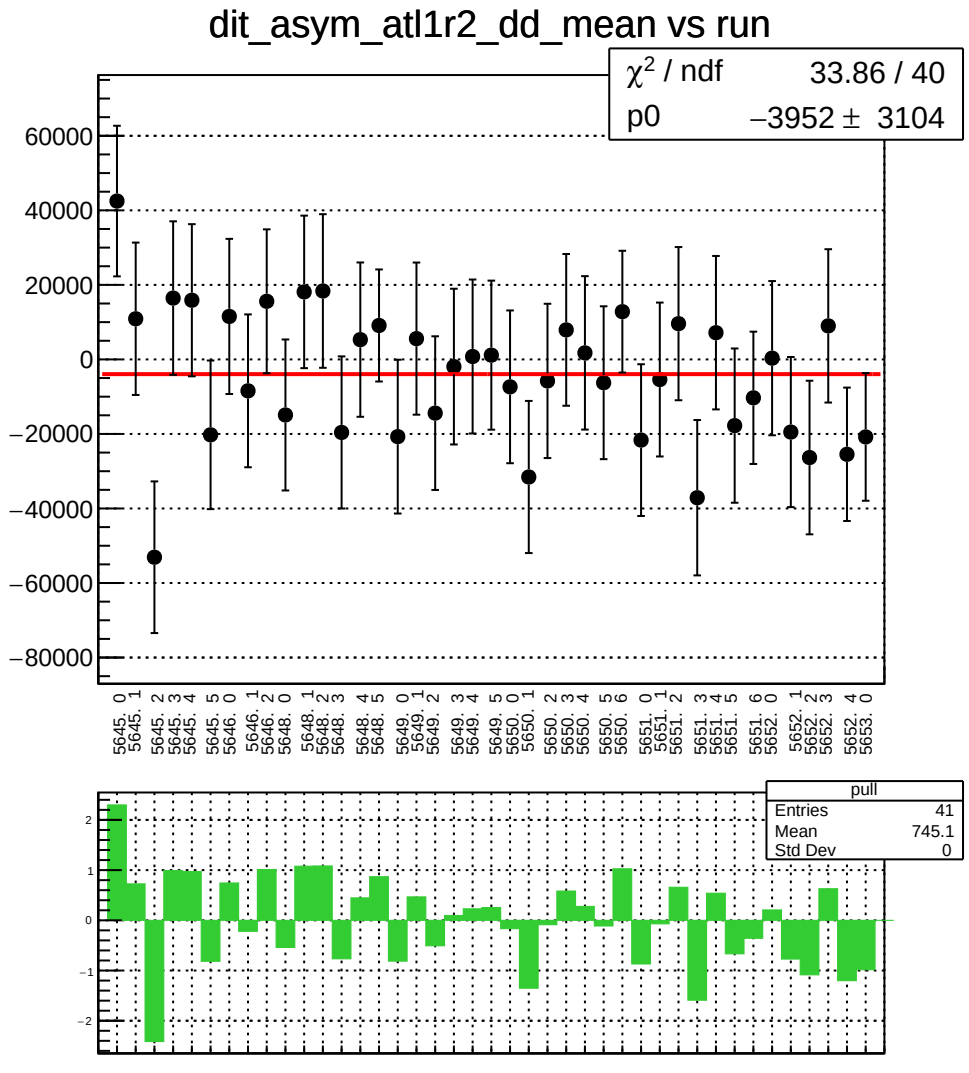

pull1D
Entries 41
Mean −0.005714
Std Dev 0.9065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

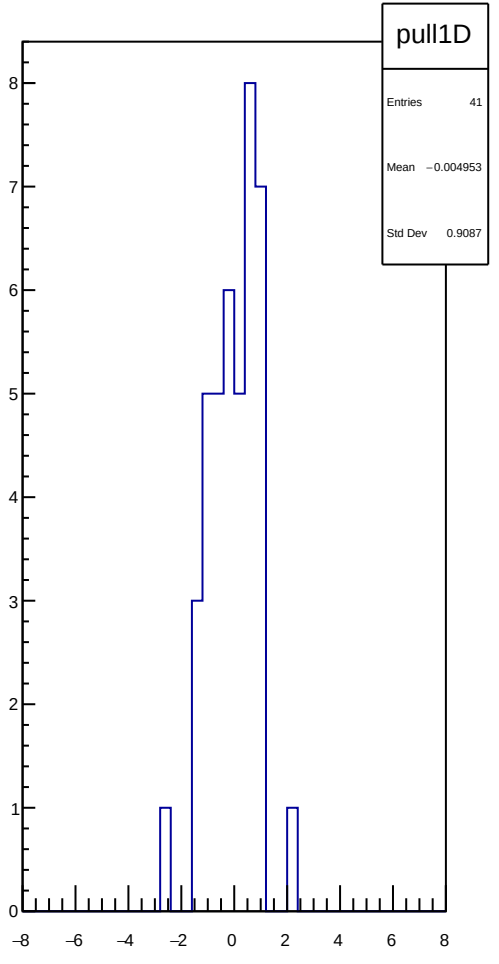

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 89.96 / 40
p0 1948 ± 2.191
2040
2020
2000
1980
1960
1940
1920
1900
1880
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

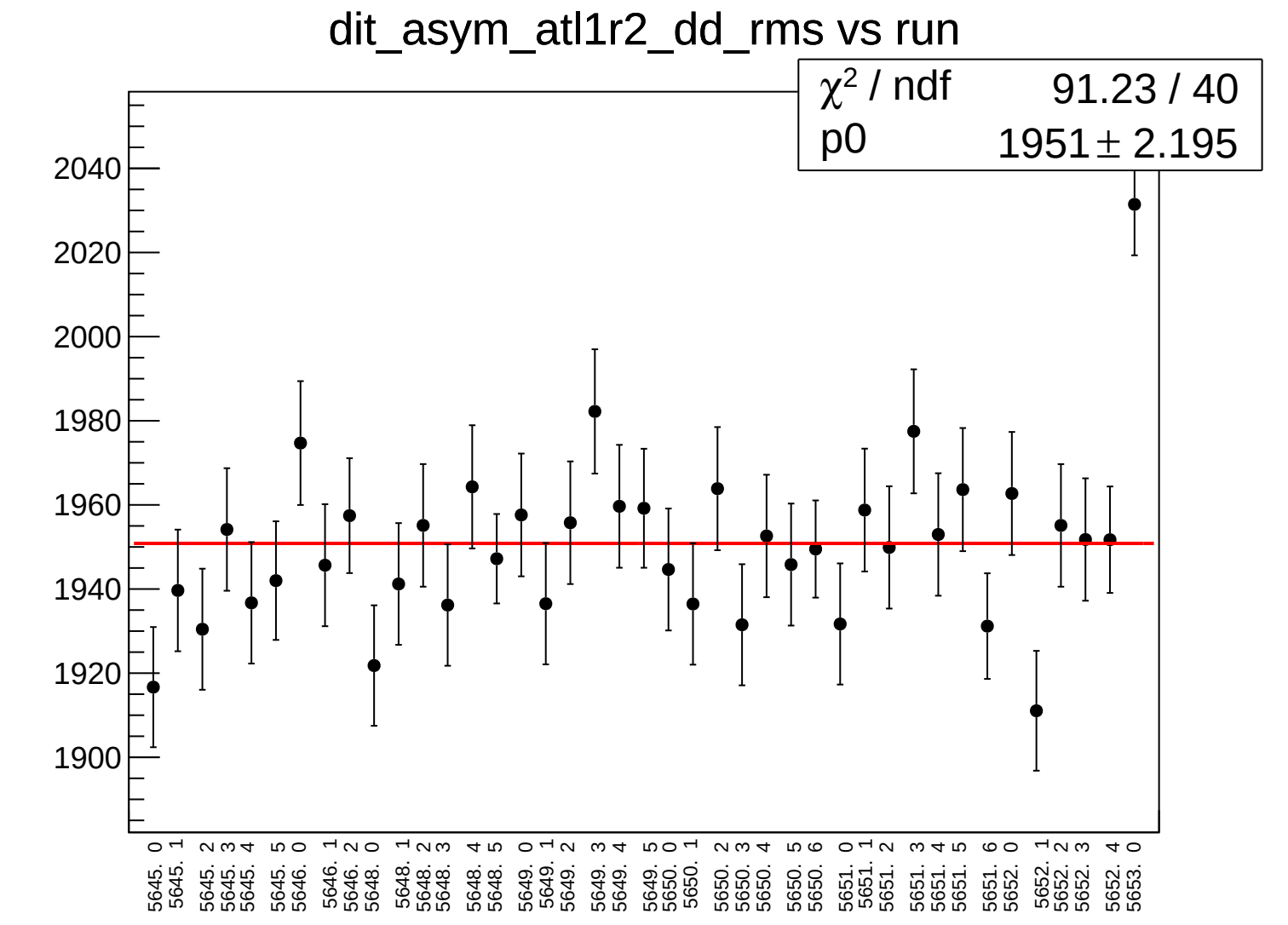

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 40.49 / 40
p0 3780 ± 4651
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.84
Std Dev 26.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

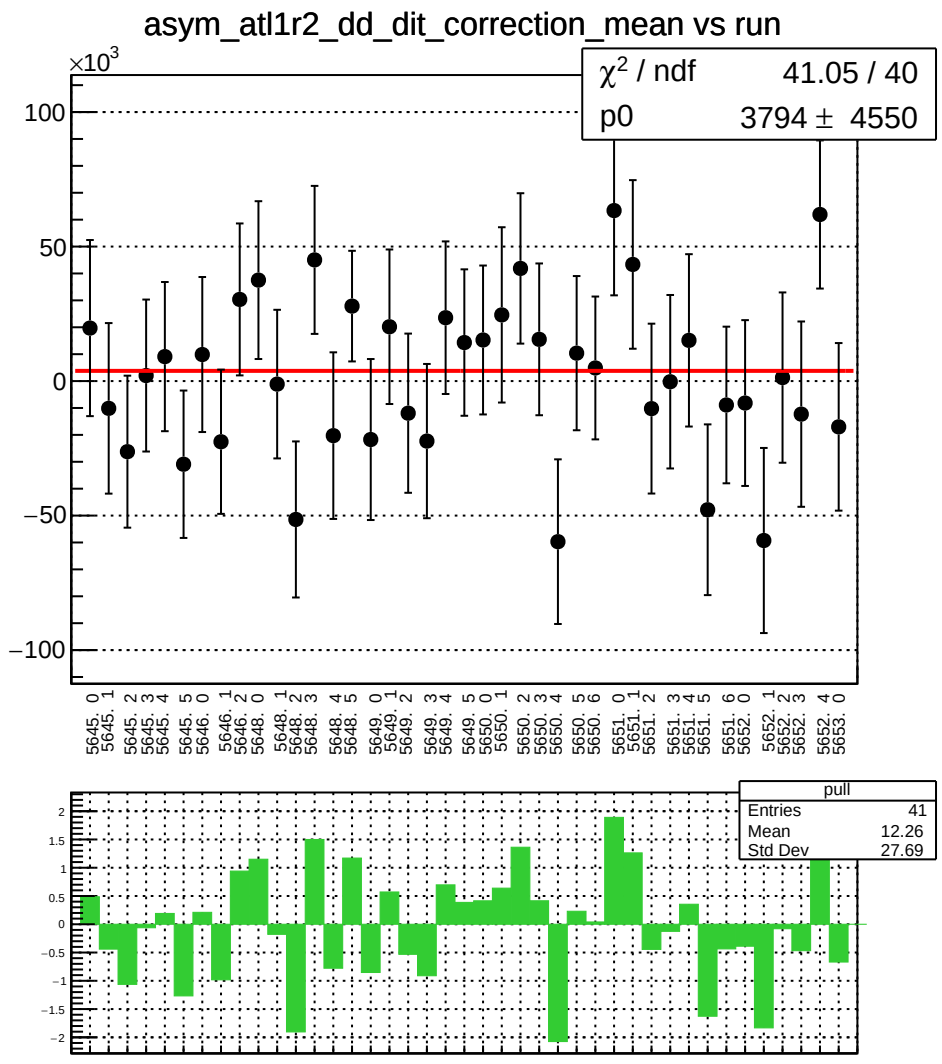

pull1D
Entries 41
Mean −0.02587
Std Dev 0.9934
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

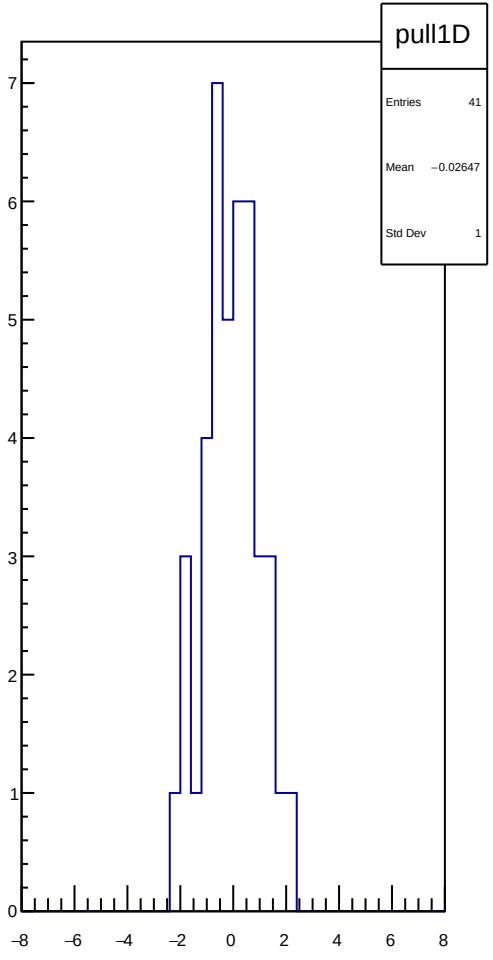

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4296 / 40
p0 2916 ± 3.289
3800
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

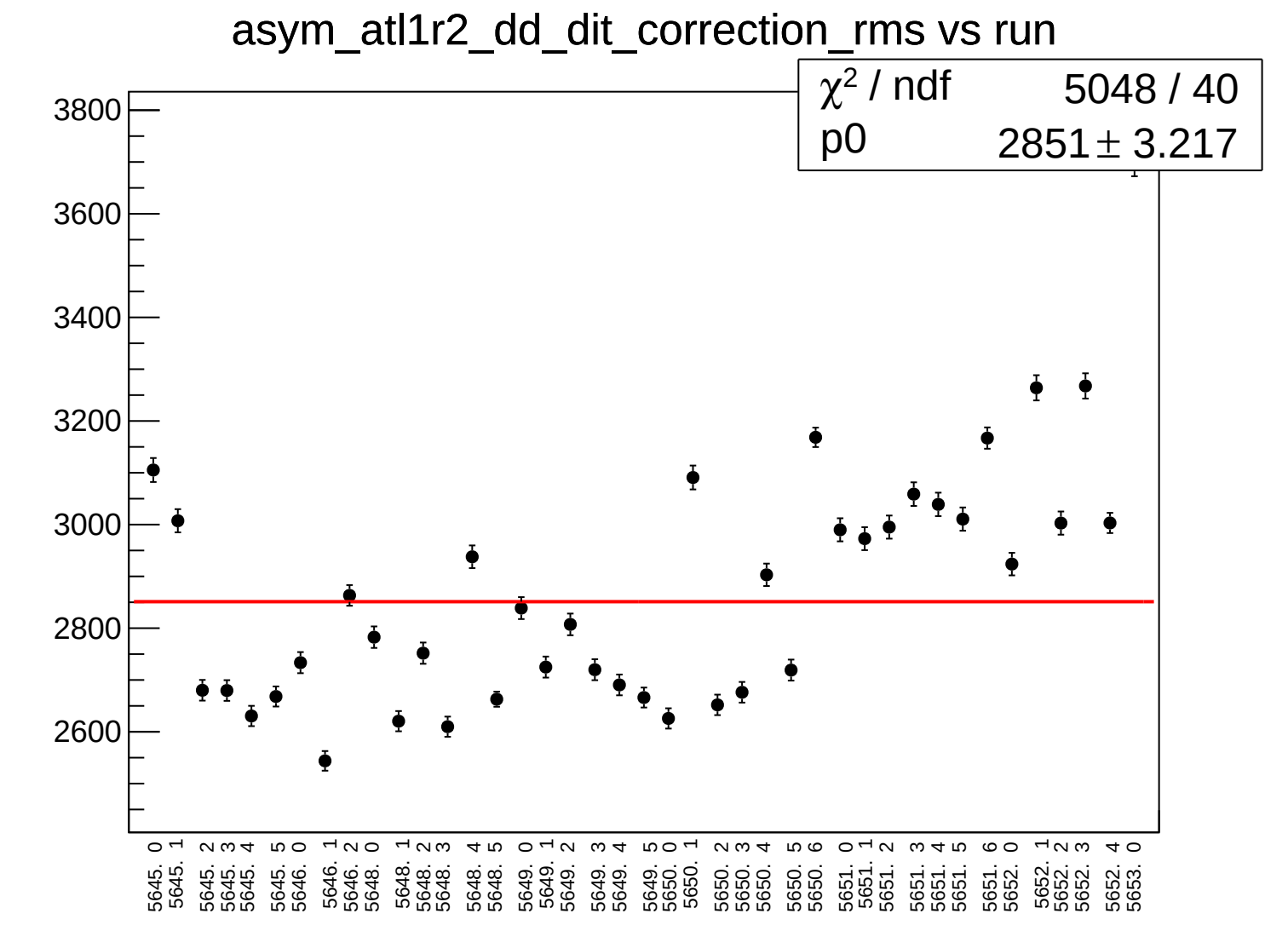

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 33.86 / 40
p0 −3952 ± 3104
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 745.1
Std Dev 0
2
1
0
−1
−2

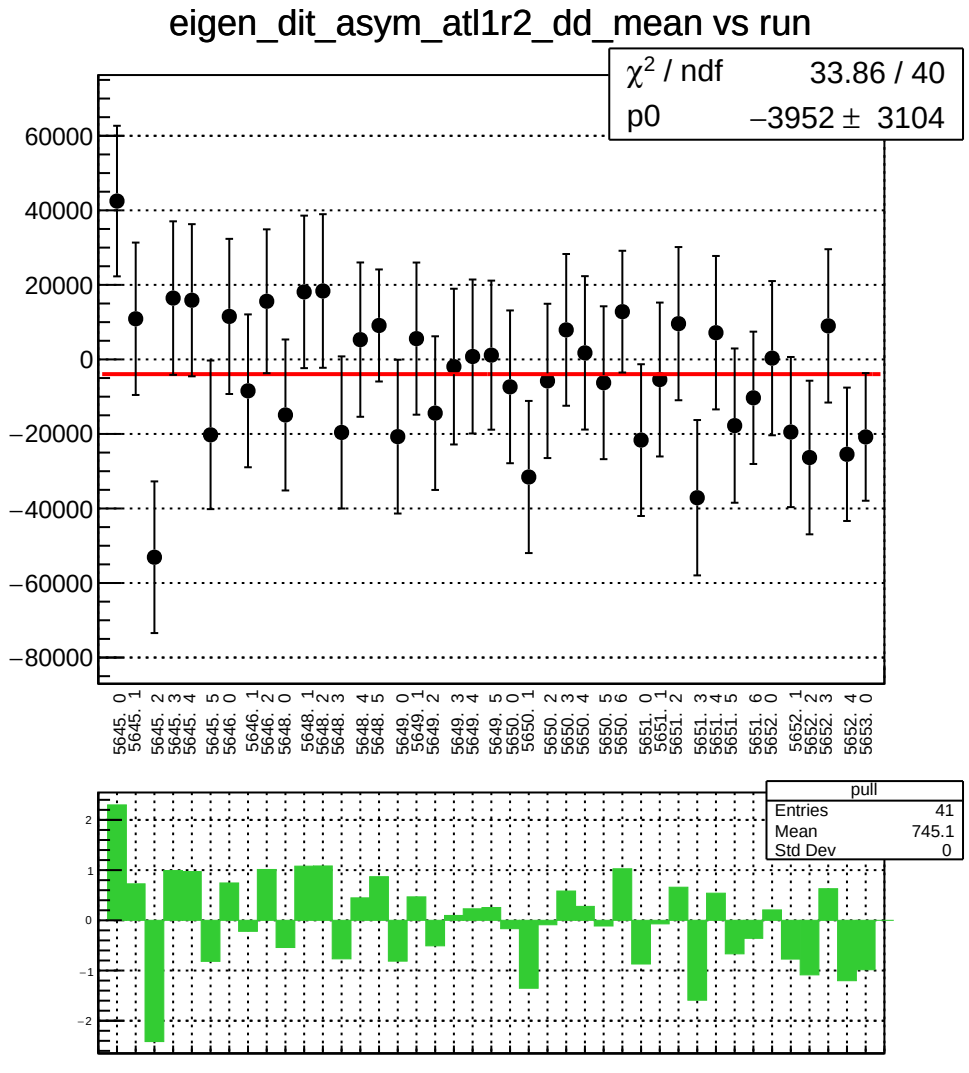

pull1D
Entries 41
Mean −0.004953
Std Dev 0.9087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

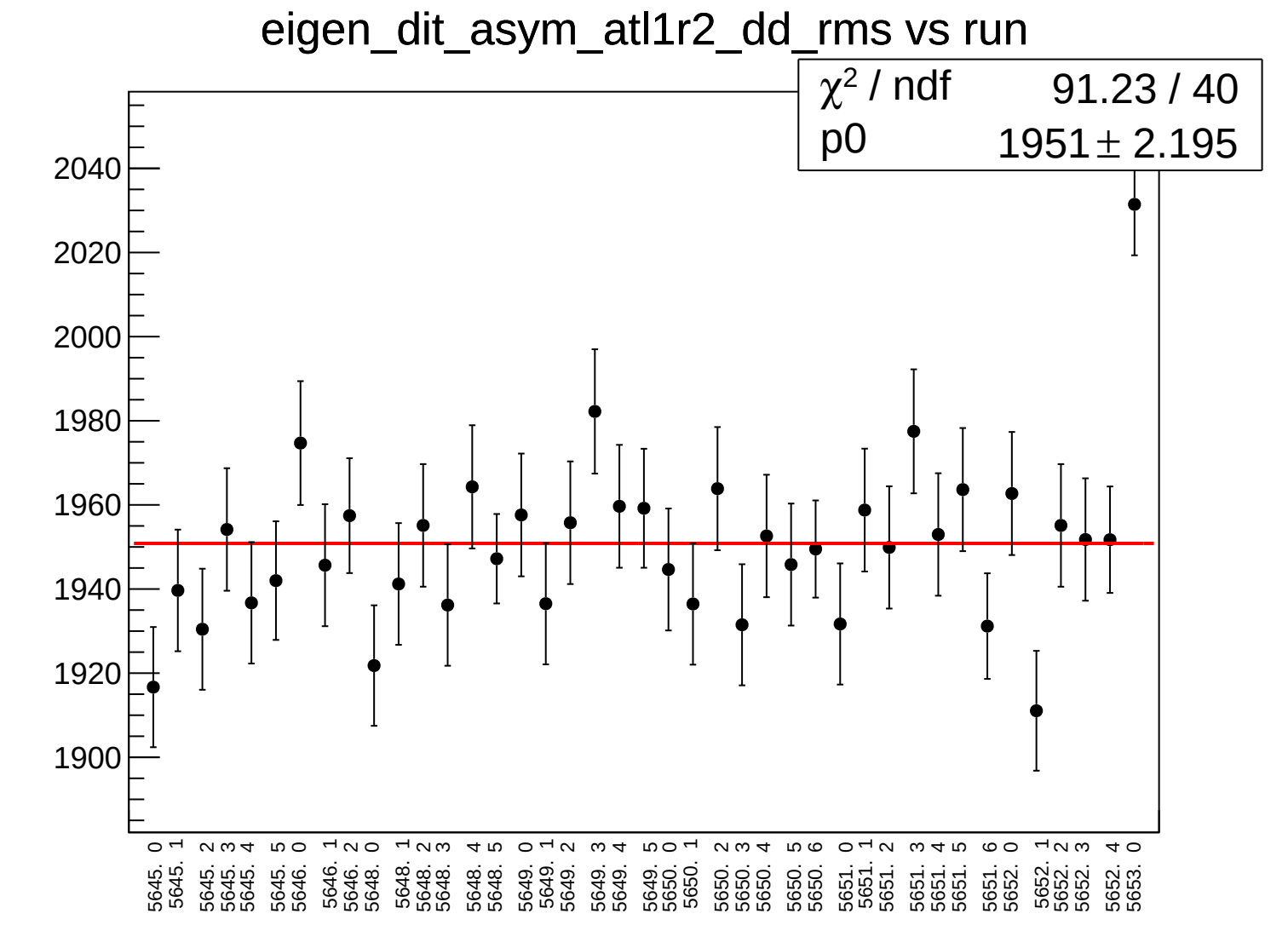

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 91.23 / 40
p0 1951 ± 2.195
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

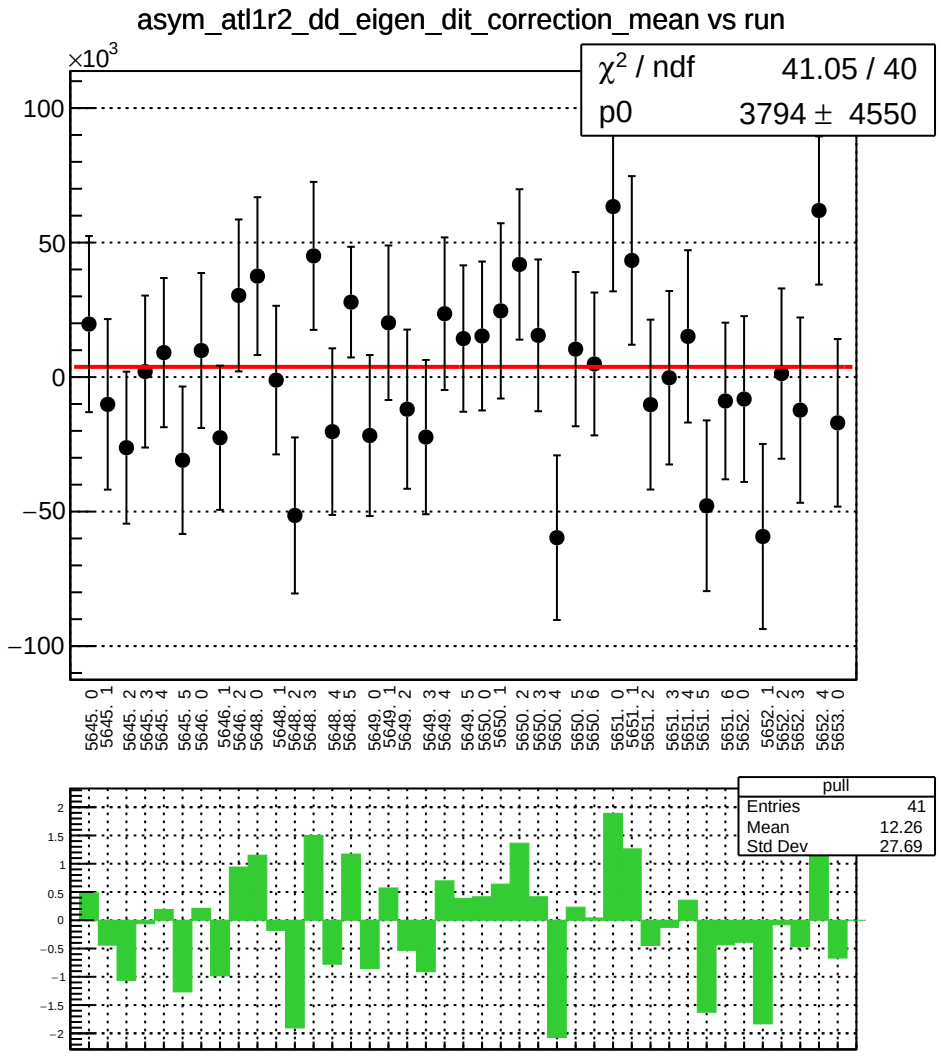

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.05 / 40
p0 3794 ± 4550
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.26
Std Dev 27.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

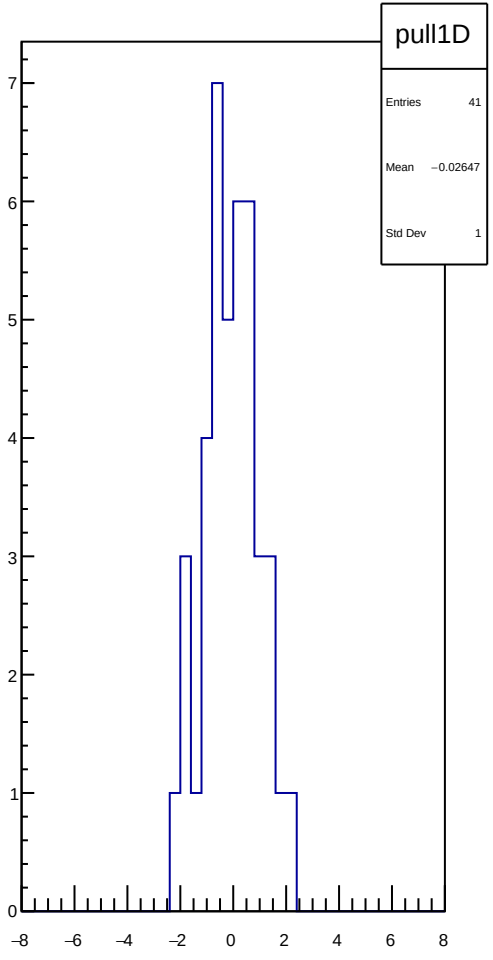

pull1D
Entries 41
Mean −0.02647
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

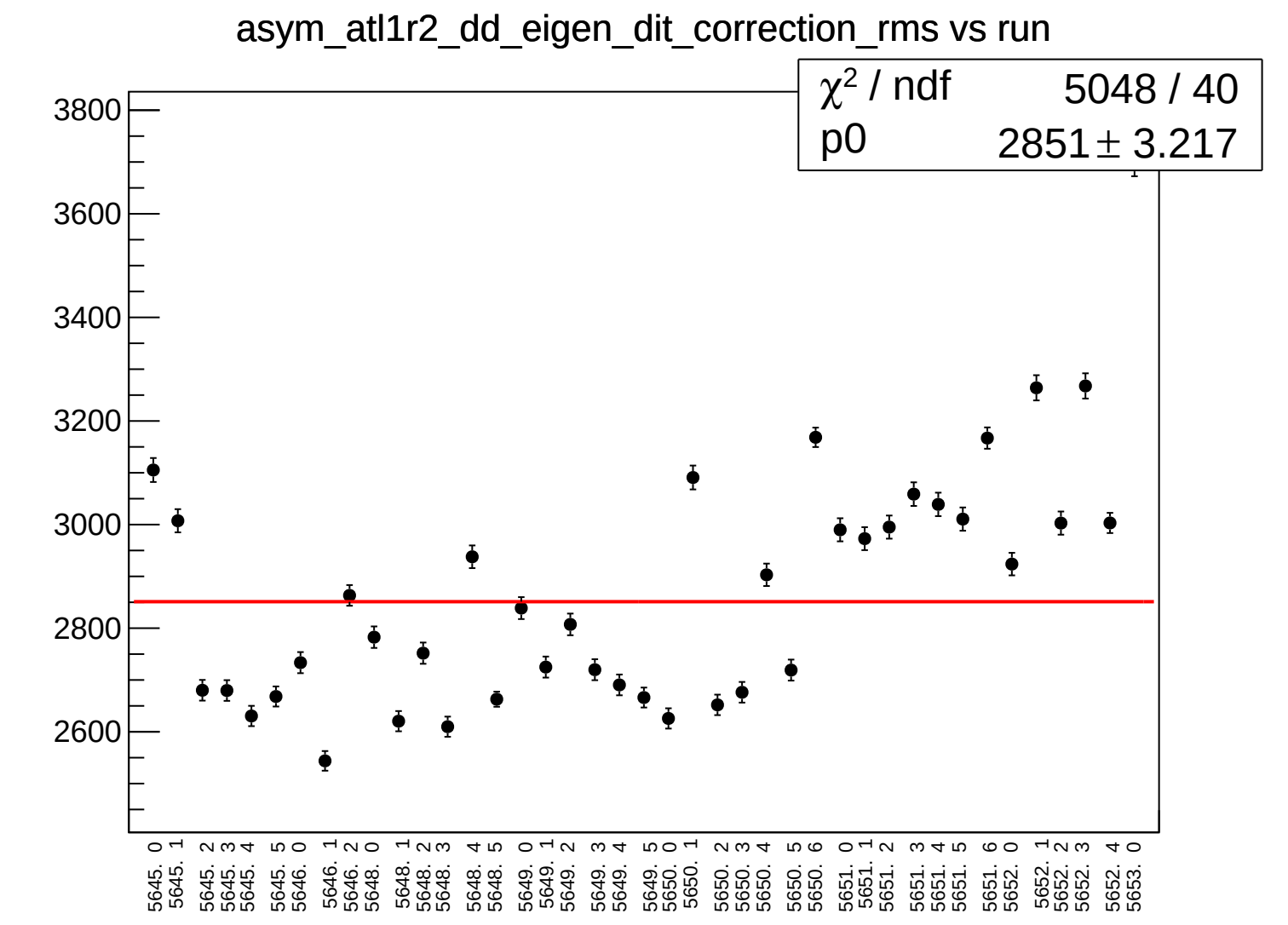

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 5048 / 40
p0 2851 ± 3.217
3800
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

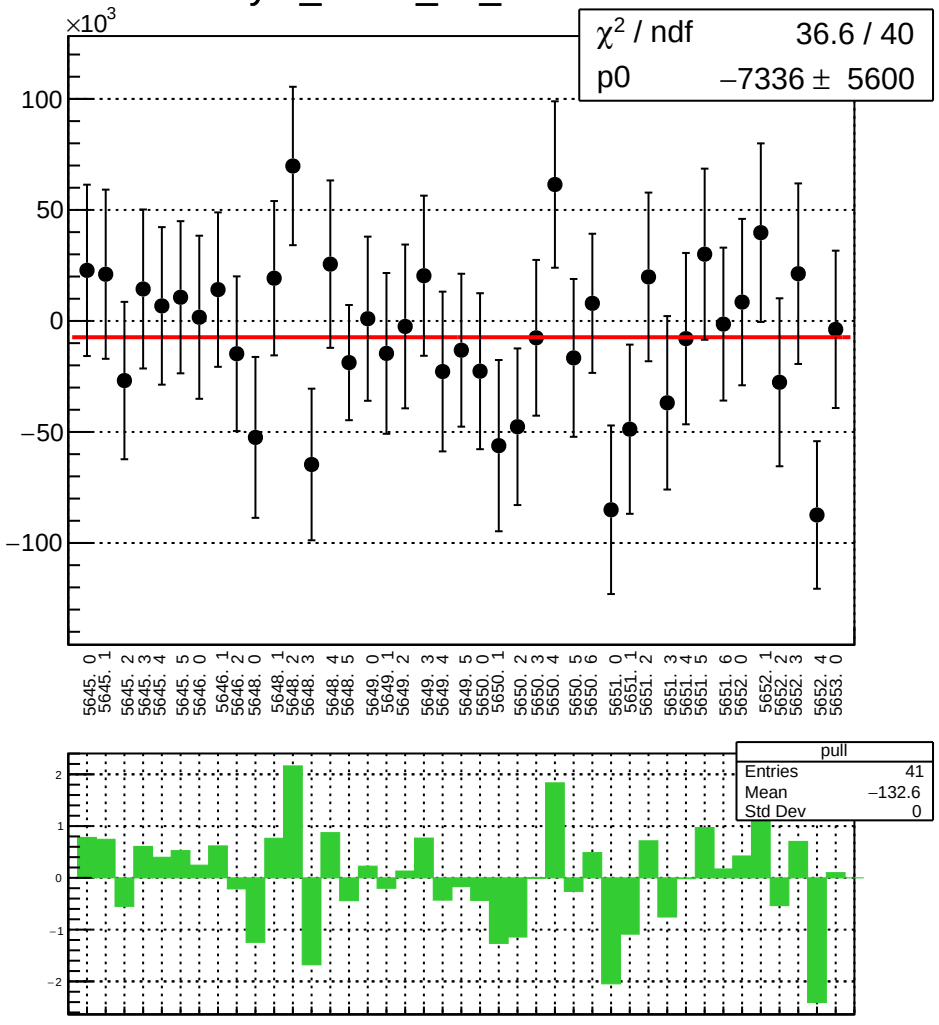

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 33.86 / 40
p0 −3952 ± 3104
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 745.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.004953
Std Dev 0.9087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

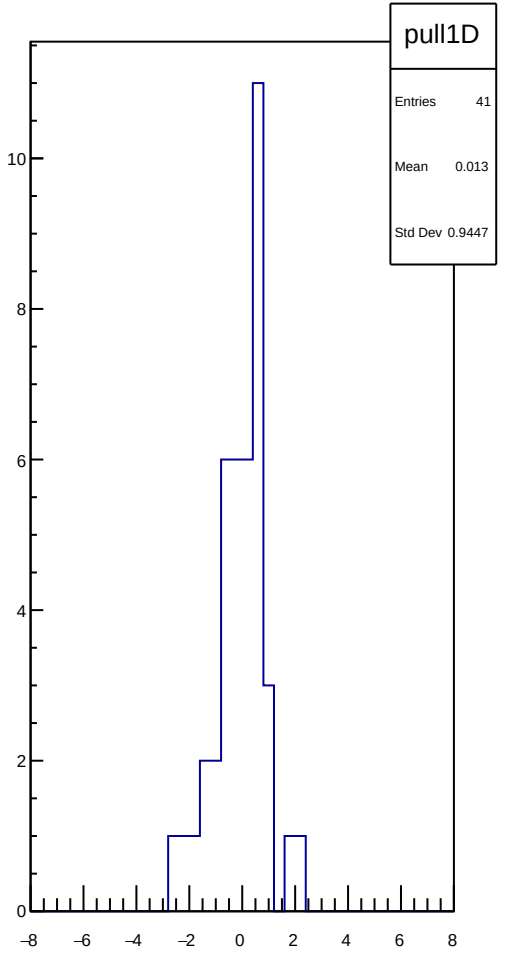

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 91.23 / 40
p0 1951 ± 2.195
2040
2020
2000
1980
1960
1940
1920
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

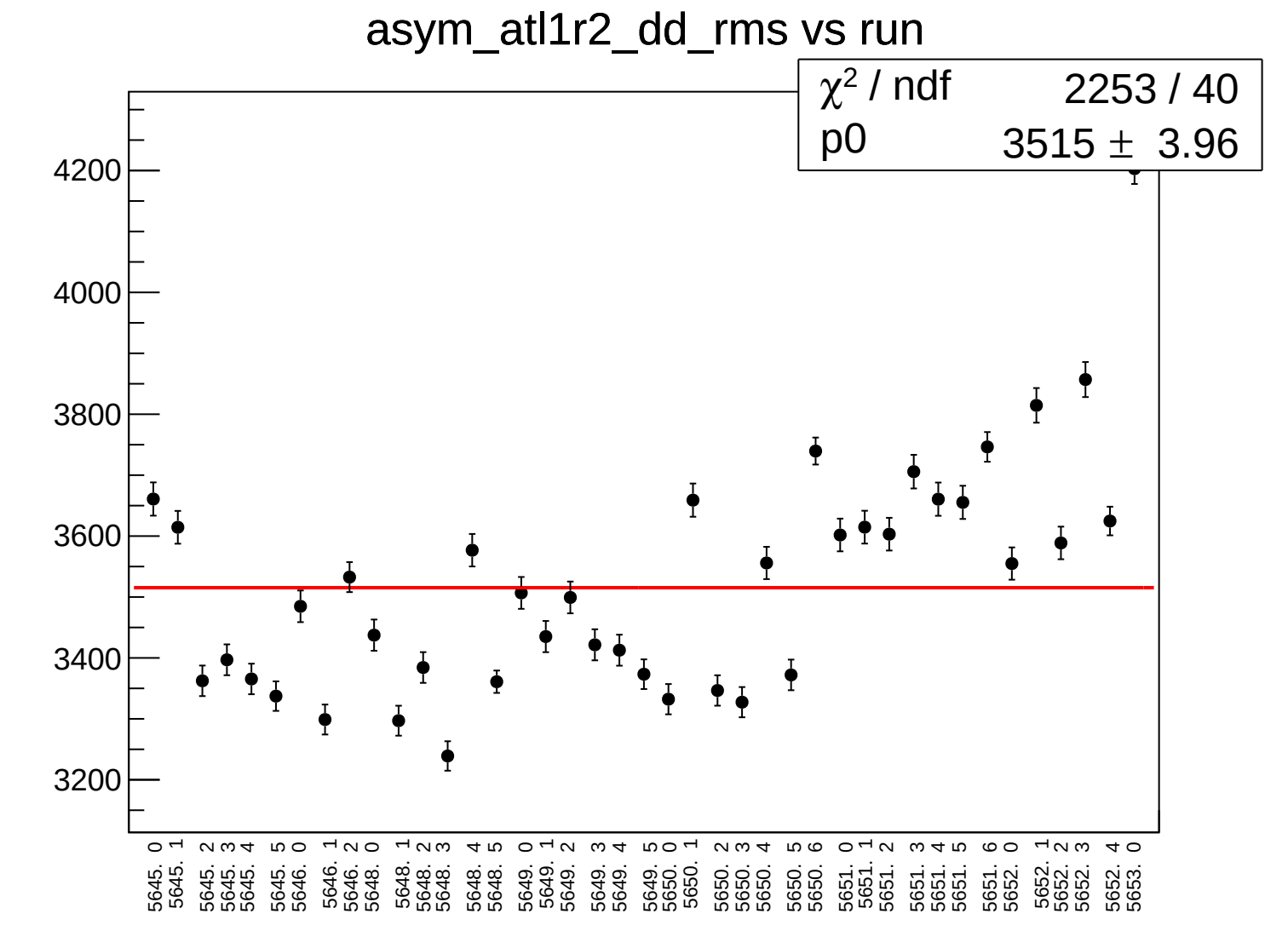

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 41.05 / 40
p0 3794 ± 4550
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.26
Std Dev 27.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

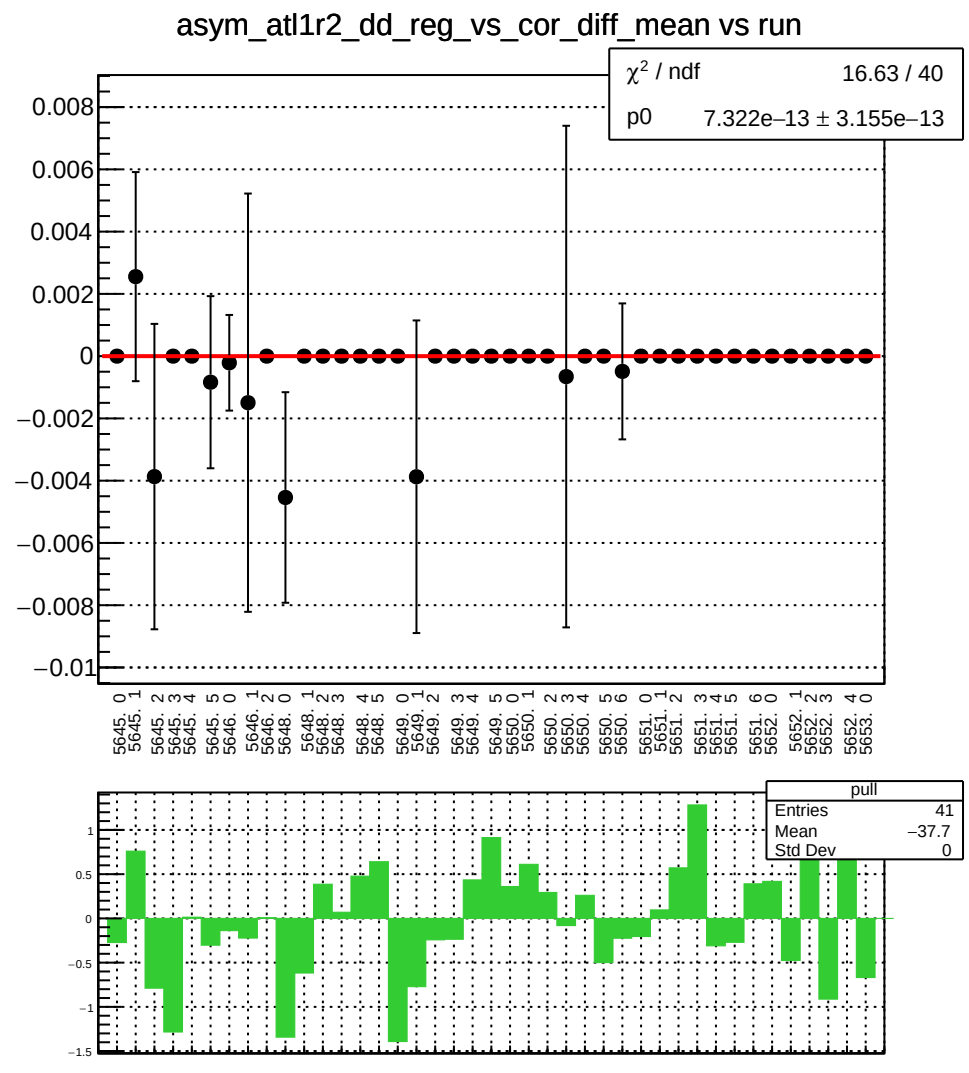

pull1D
Entries 41
Mean −0.02647
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

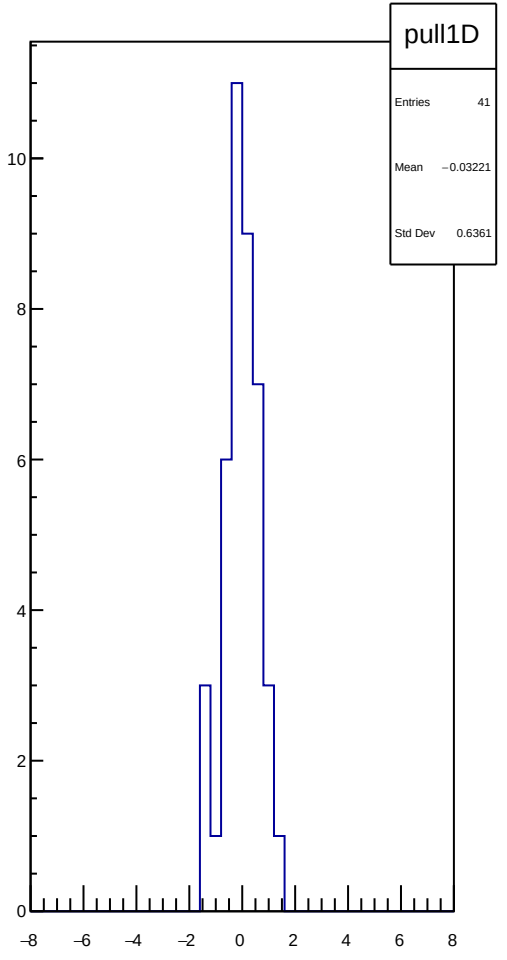

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5048 / 40
p0 2851 ± 3.217
3800
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

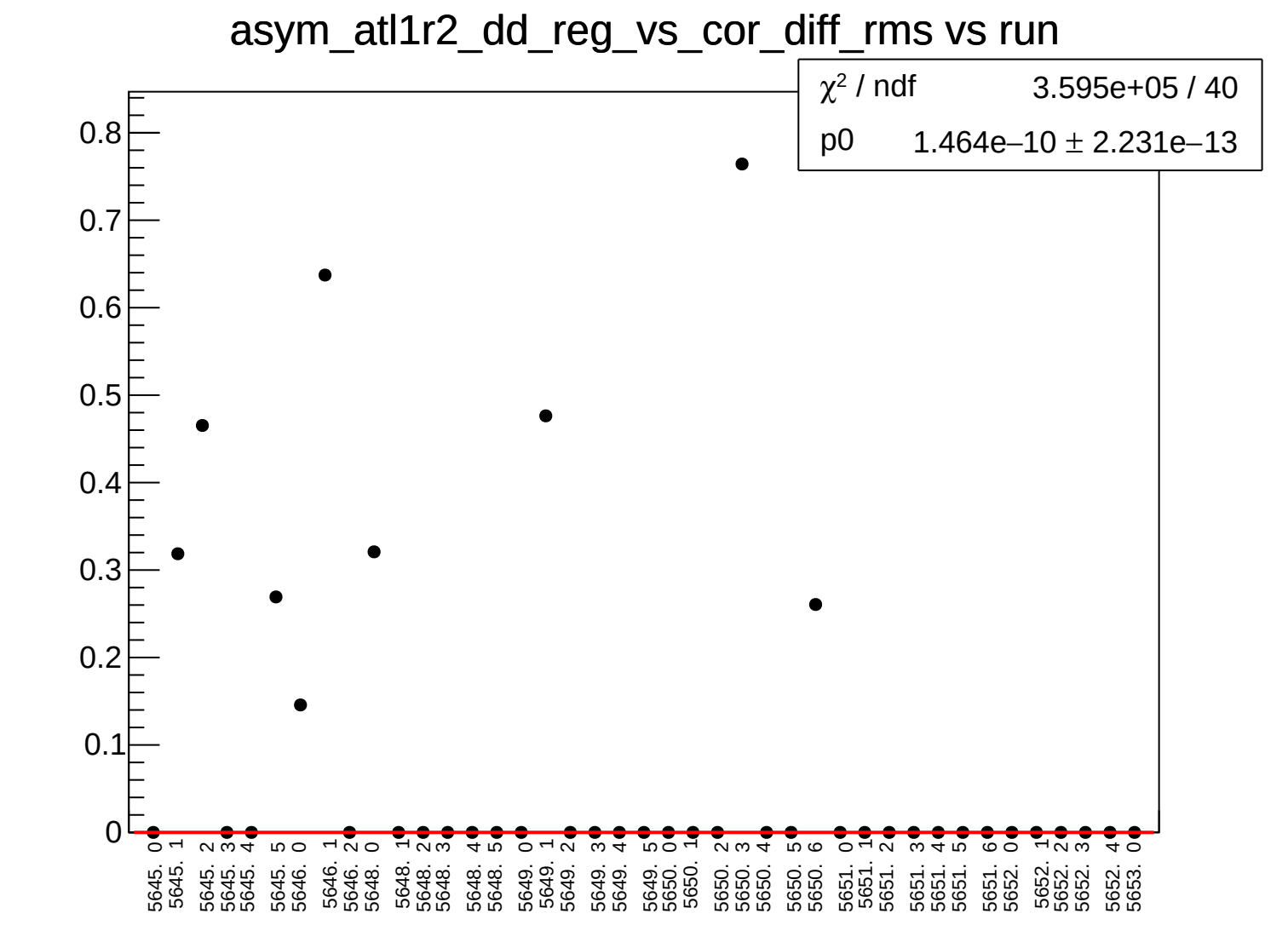

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 36.6 / 40
p0 −7336 ± 5600
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −132.6
Std Dev 0
2
1
0
−1
−2

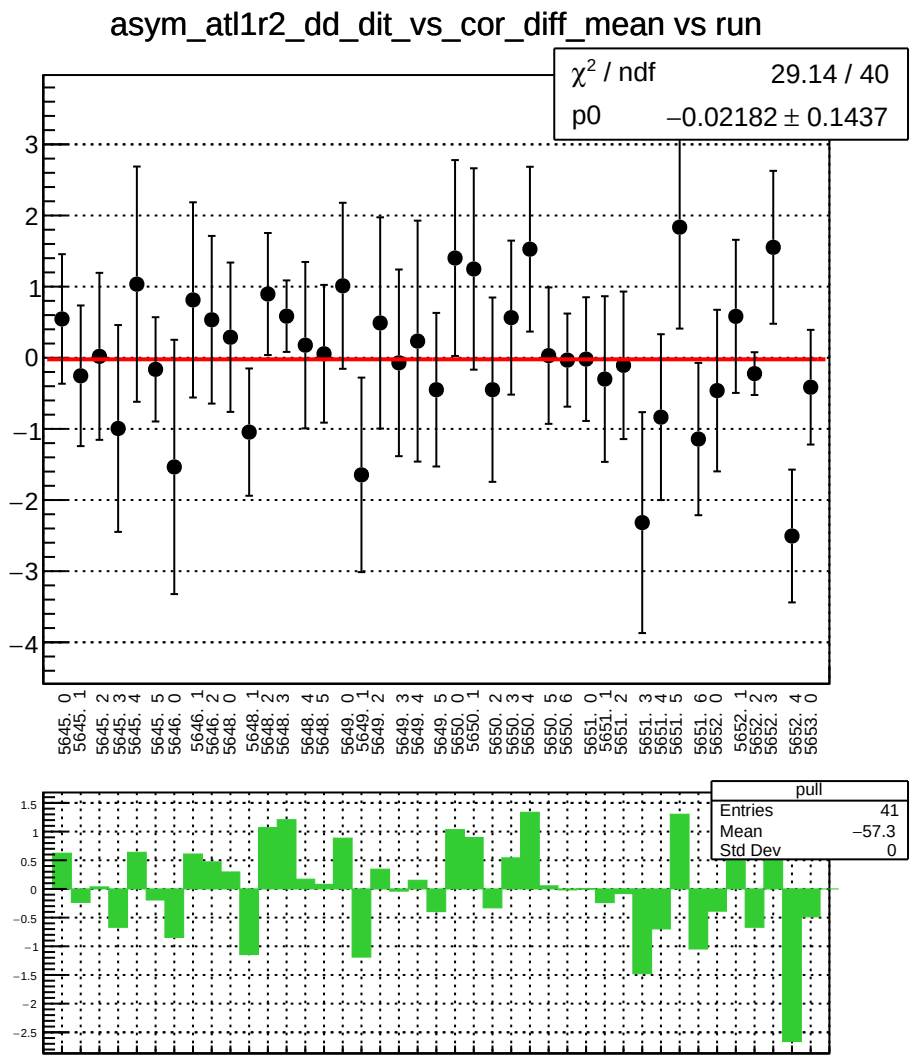

pull1D
Entries 41
Mean 0.013
Std Dev 0.9447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

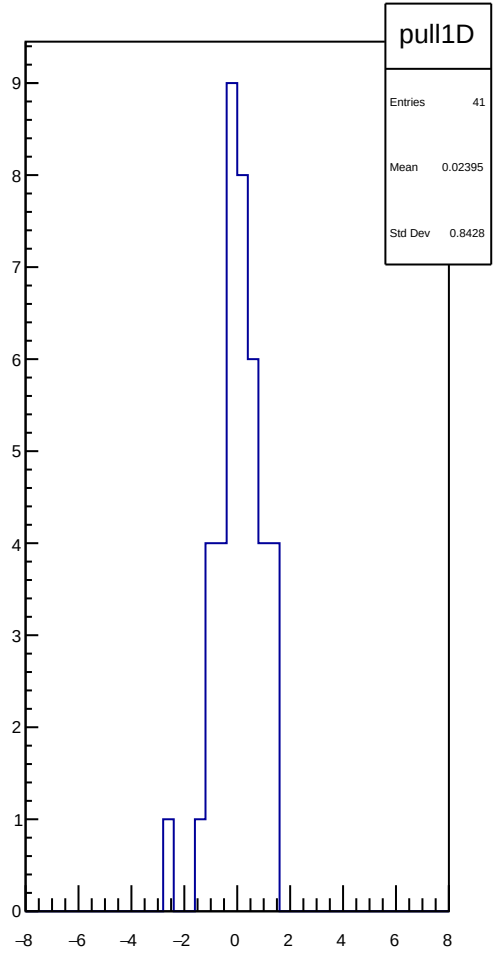

asym_atl1r2_dd_rms vs run
χ² / ndf 2253 / 40
p0 3515 ± 3.96
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

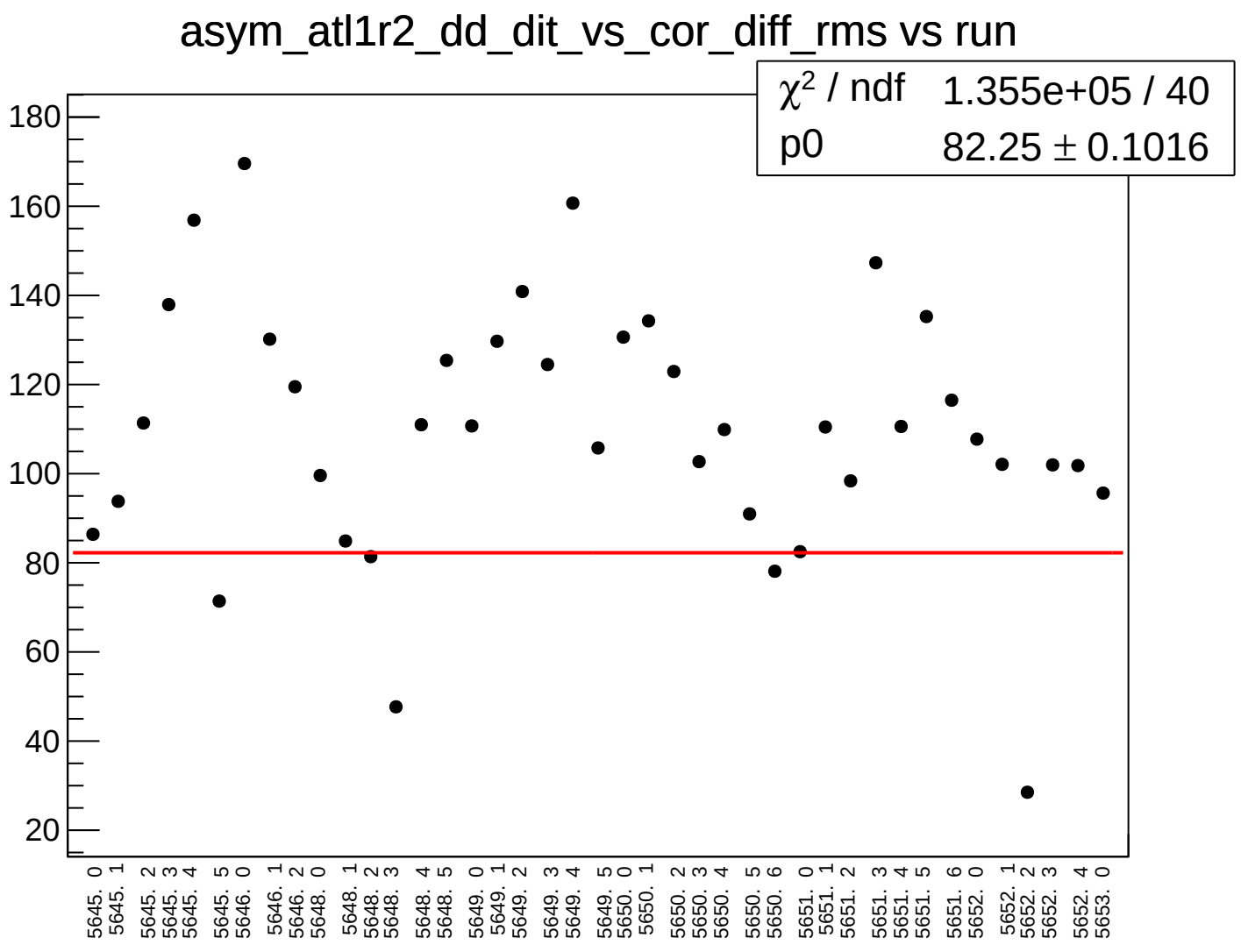

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 16.63 / 40
p0 7.322e−13 ± 3.155e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −37.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

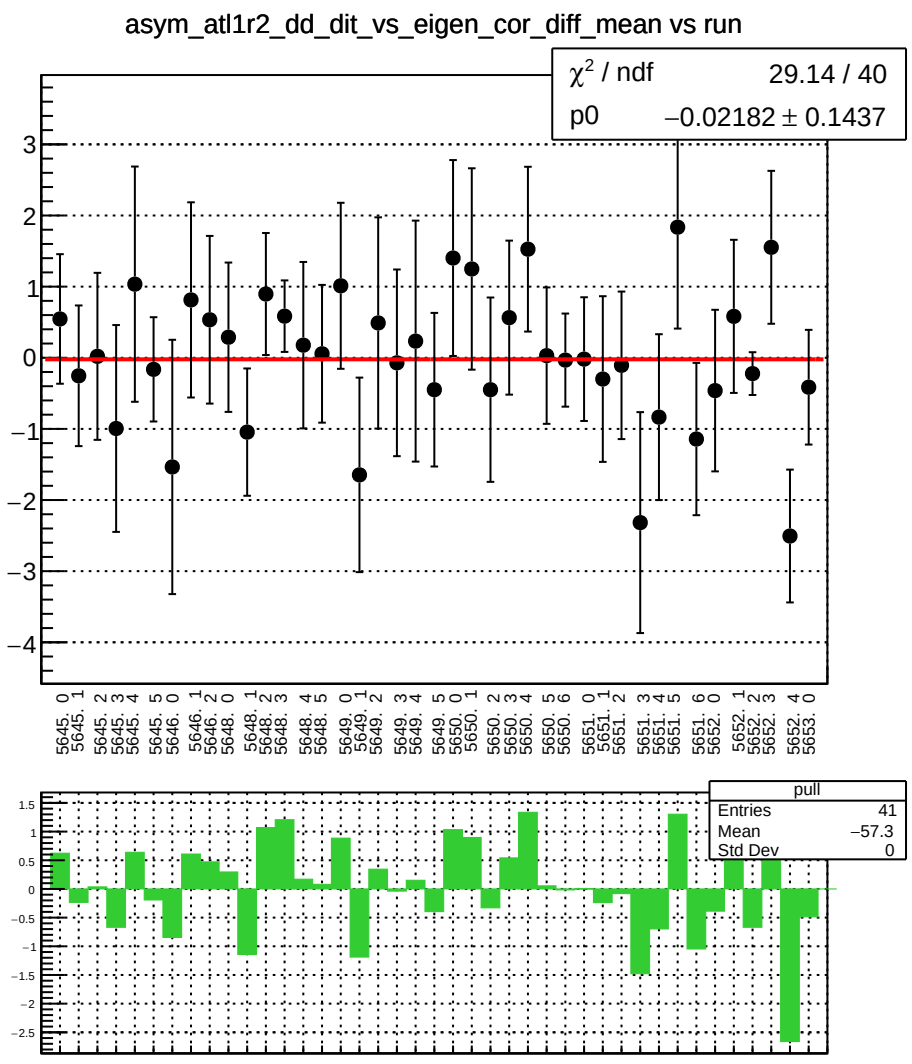

pull1D
Entries 41
Mean −0.03221
Std Dev 0.6361
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

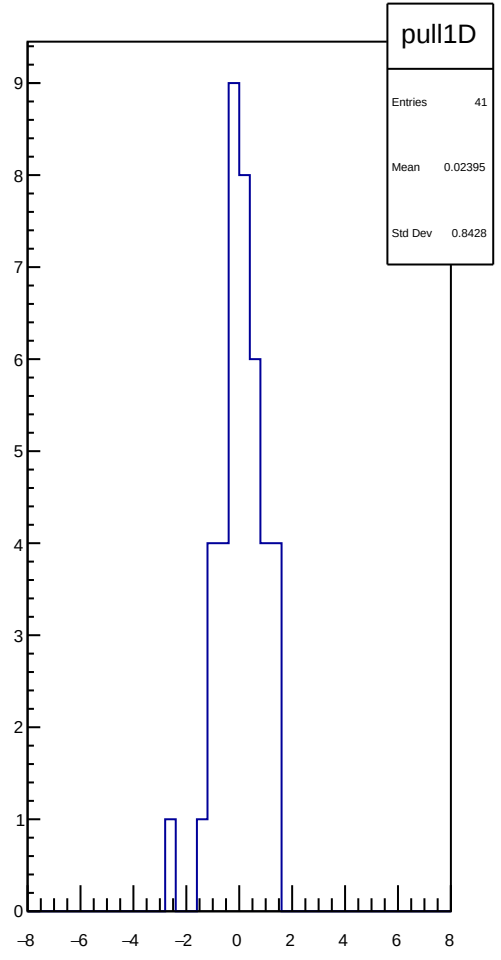

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.595e+05 / 40
p0 1.464e−10 ± 2.231e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

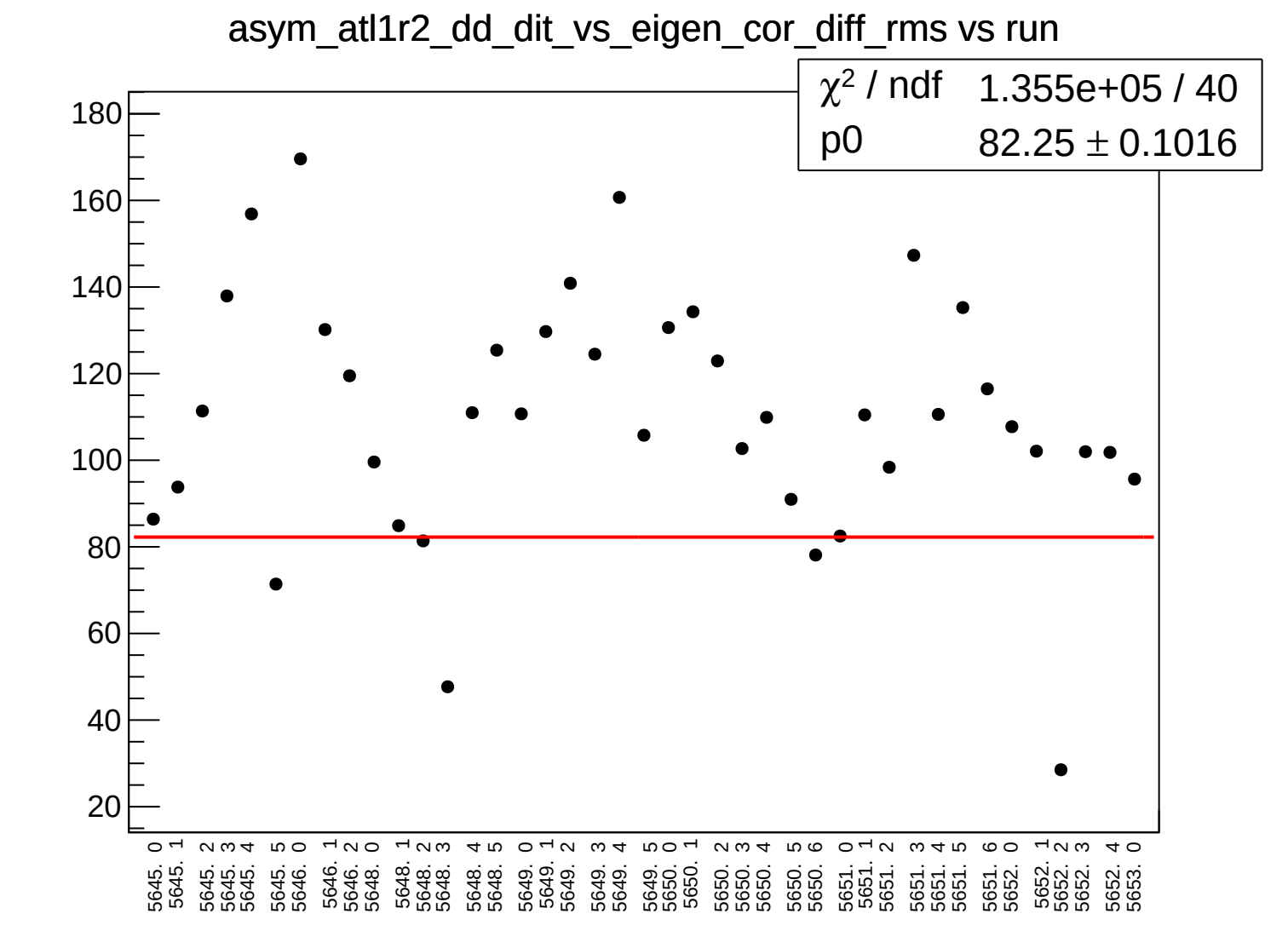

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 29.14 / 40
p0 −0.02182 ± 0.1437
pull
Entries 41
Mean −57.3
Std Dev 0

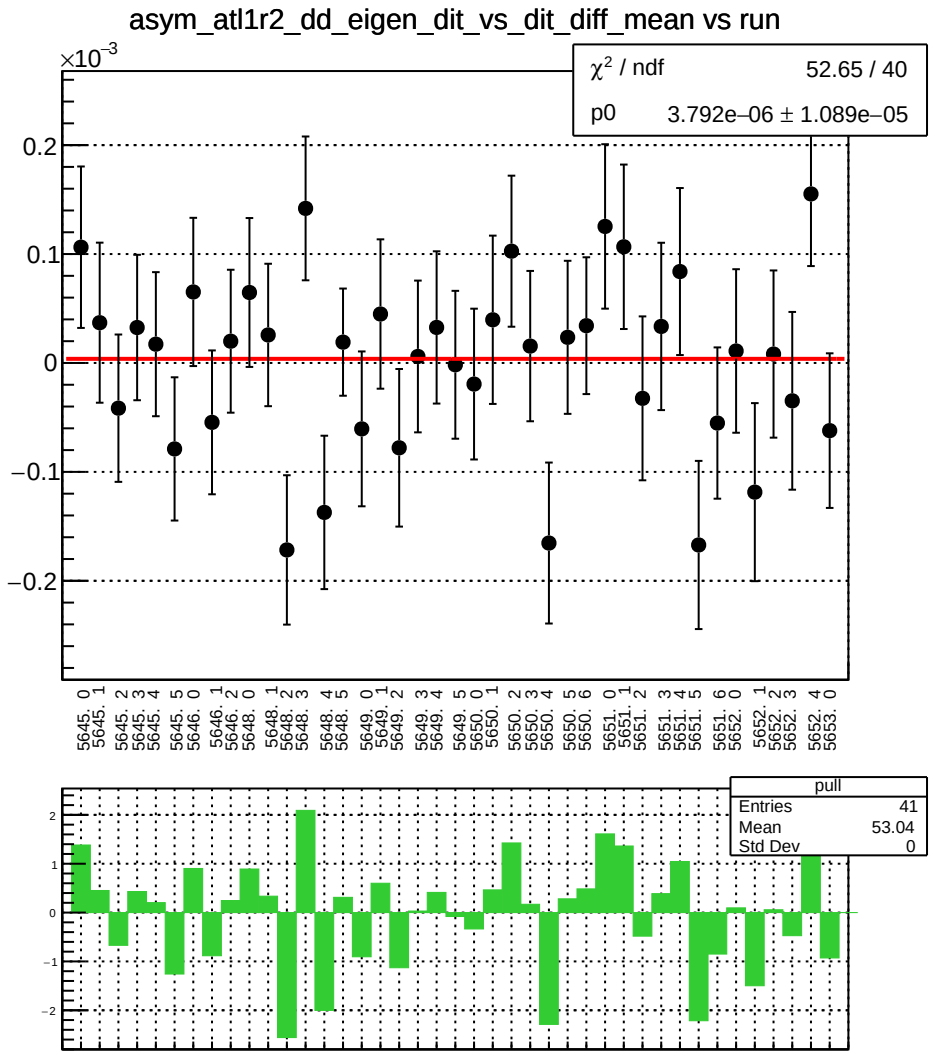

pull1D
Entries 41
Mean 0.02395
Std Dev 0.8428

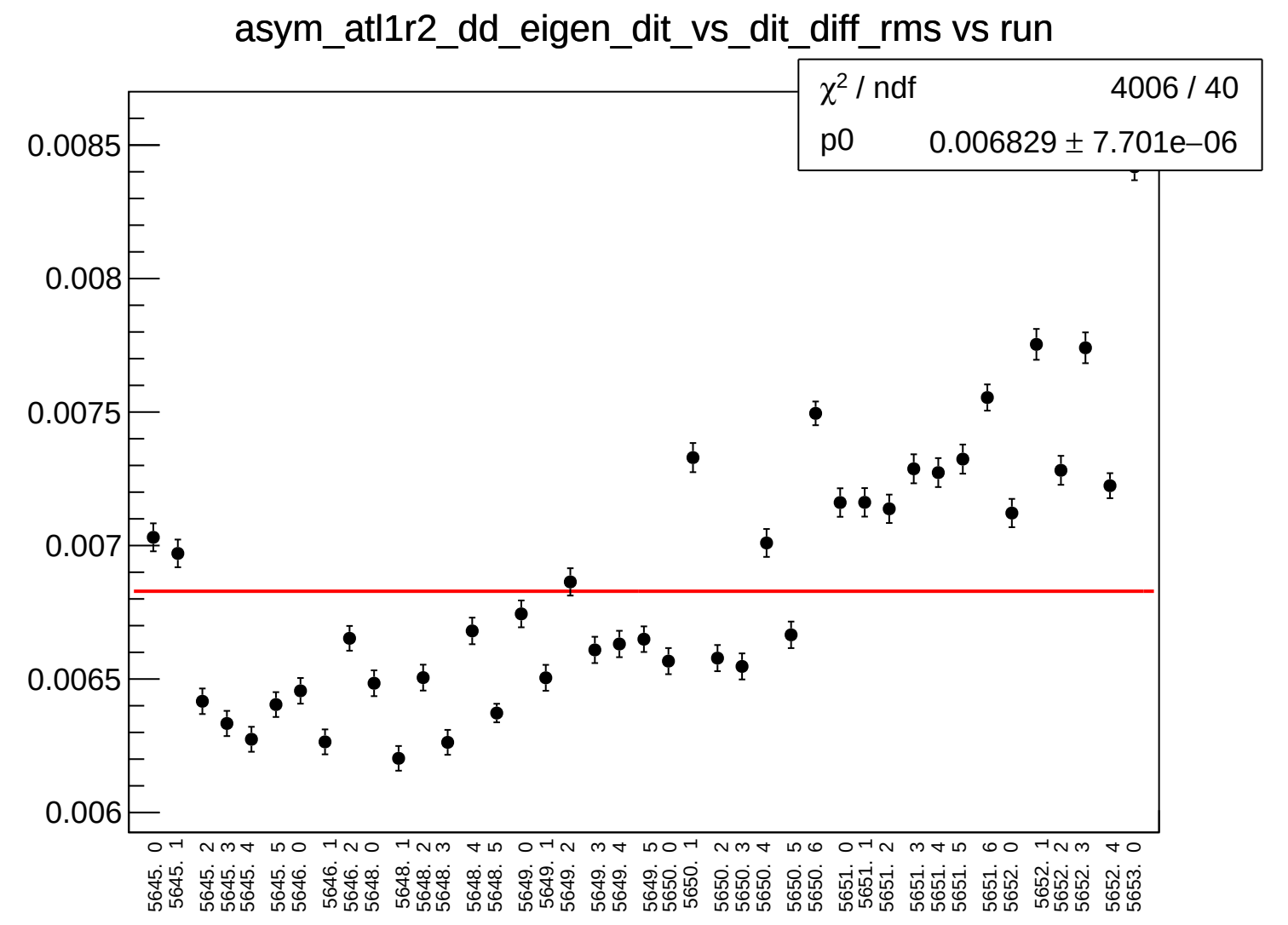

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 40
p0 82.25 ± 0.1016
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

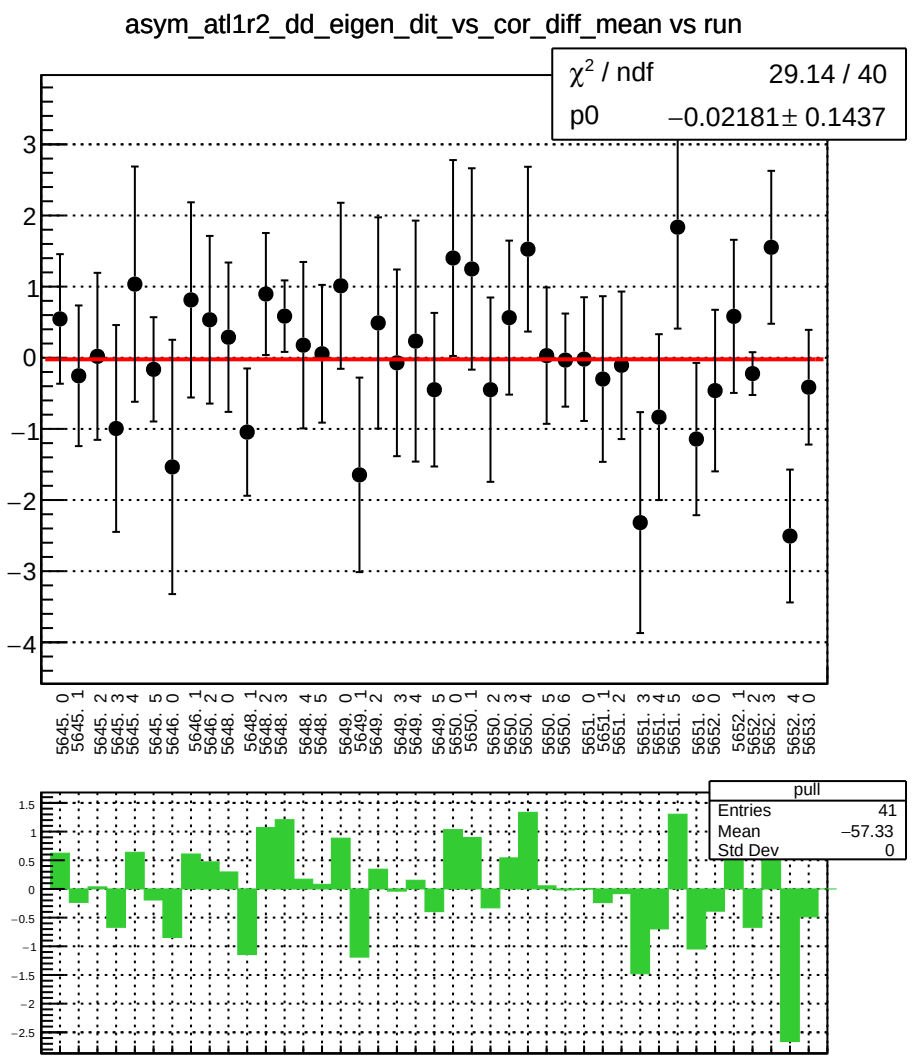

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.14 / 40
p0 −0.02182 ± 0.1437
pull
Entries 41
Mean −57.3
Std Dev 0

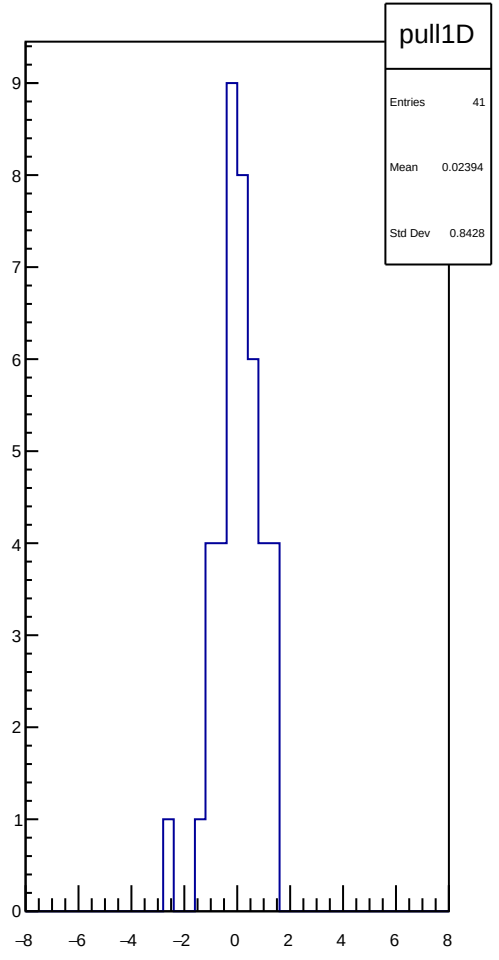

pull1D
Entries 41
Mean 0.02395
Std Dev 0.8428

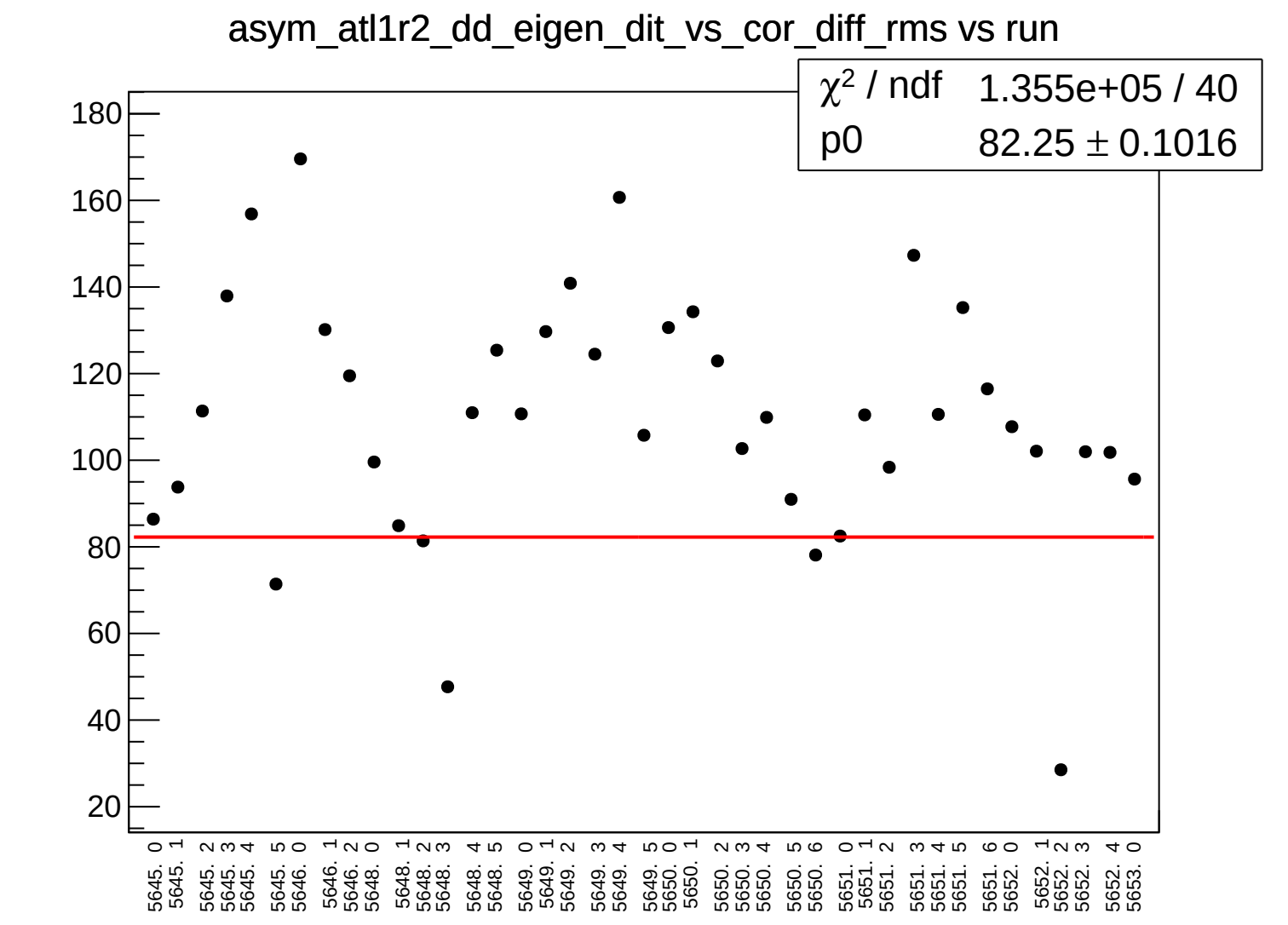

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 40
p0 82.25 ± 0.1016
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

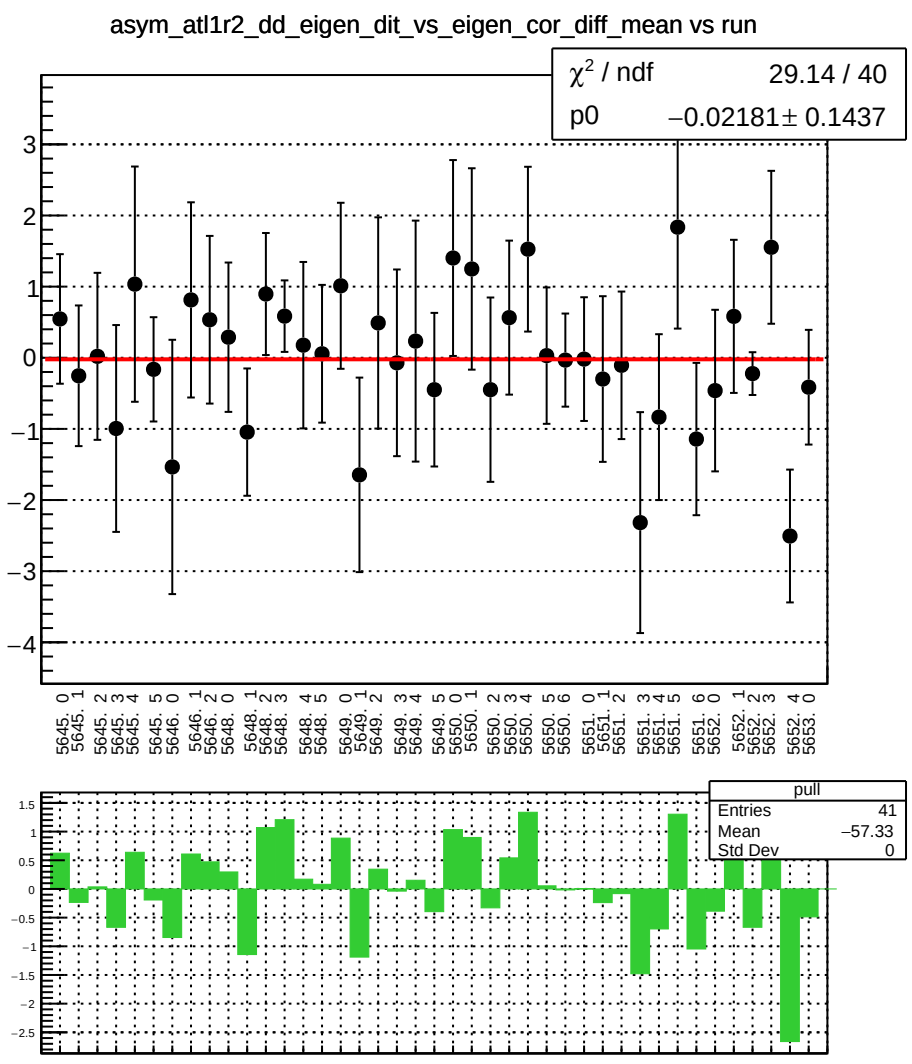

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.65 / 40
p0 3.792e−06 ± 1.089e−05
0.2
0.1
0
−0.1
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 53.04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01441
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

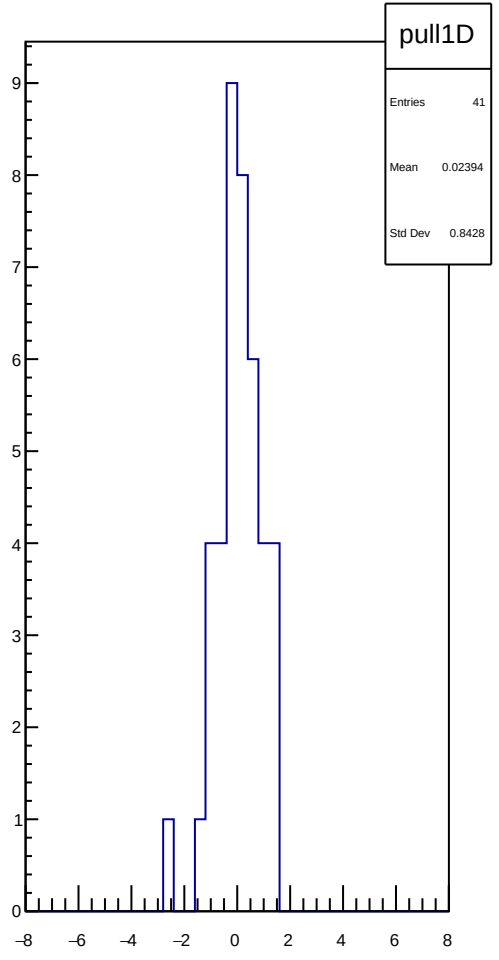

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4006 / 40
p0 0.006829 ± 7.701e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

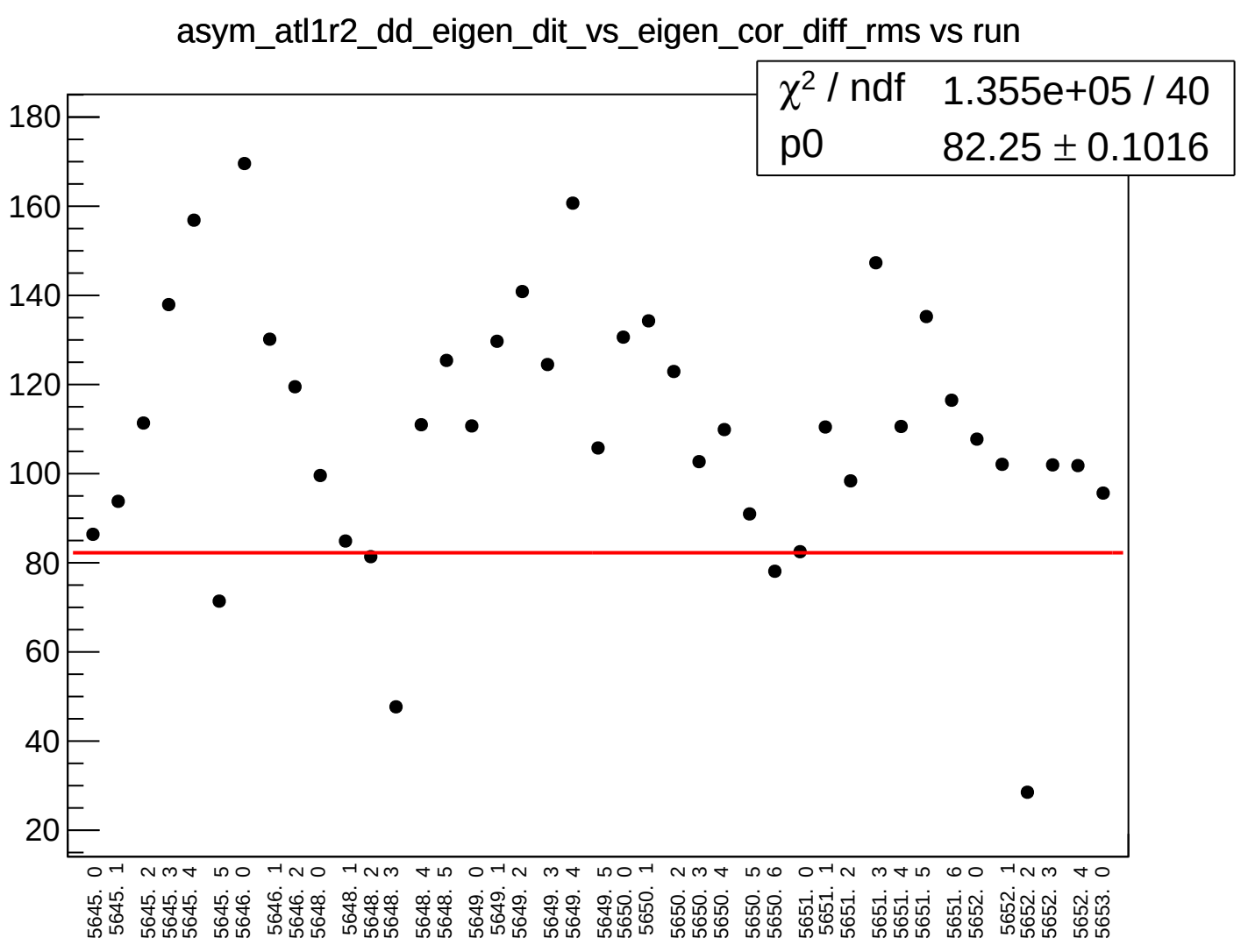

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.14 / 40
p0 −0.02181 ± 0.1437
pull
Entries 41
Mean −57.33
Std Dev 0

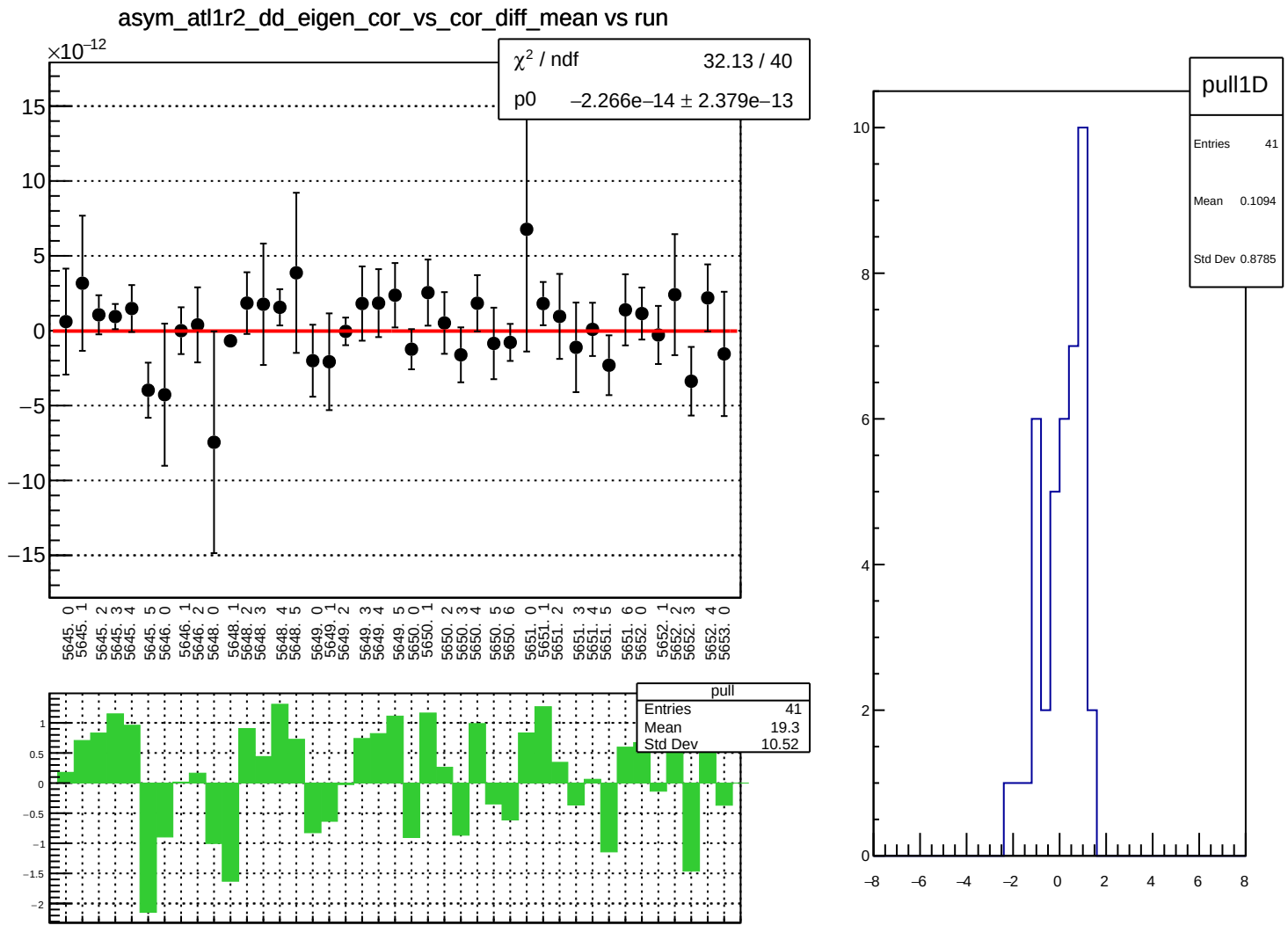

pull1D
Entries 41
Mean 0.02394
Std Dev 0.8428

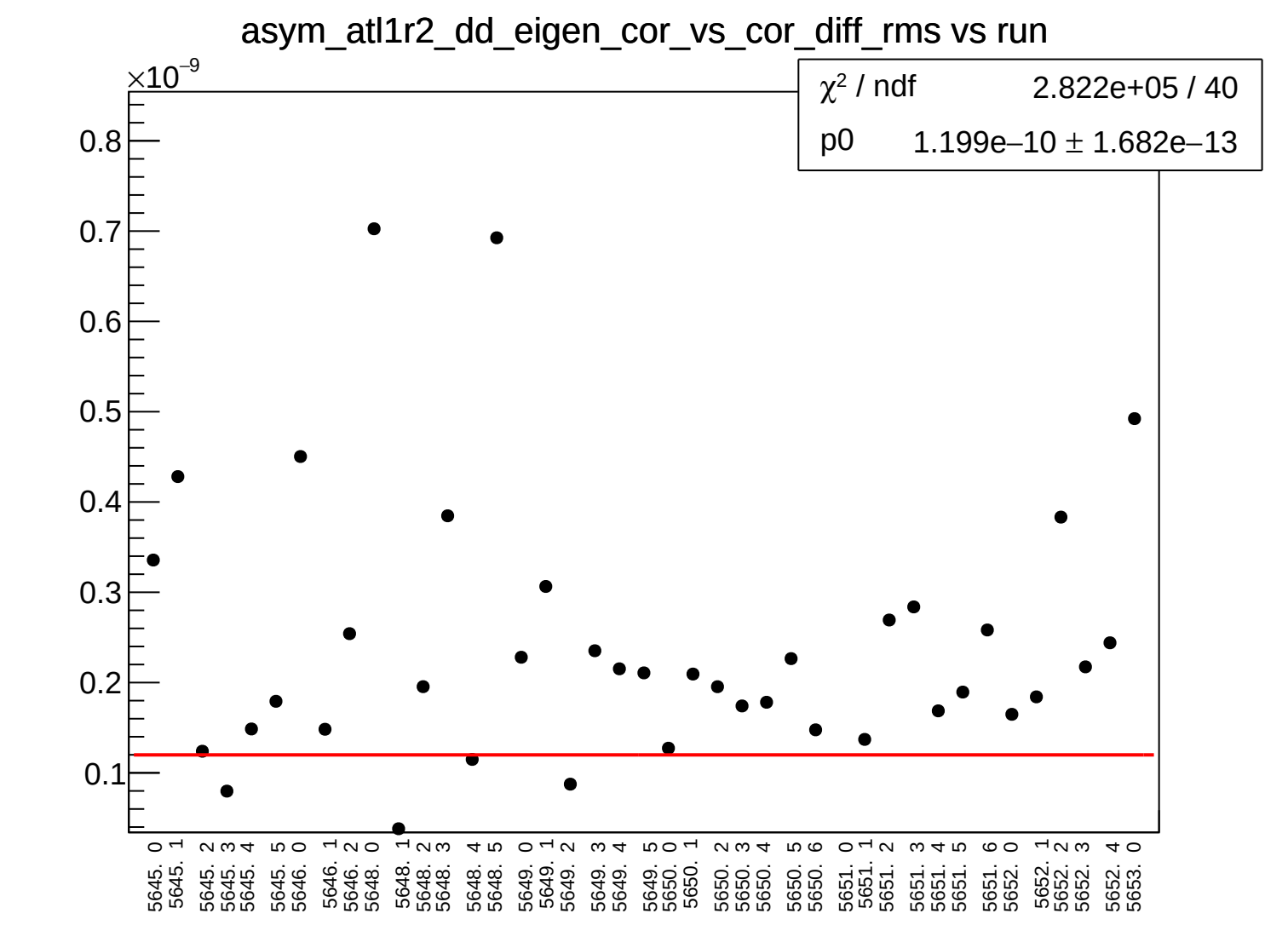

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 40
p0 82.25 ± 0.1016
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

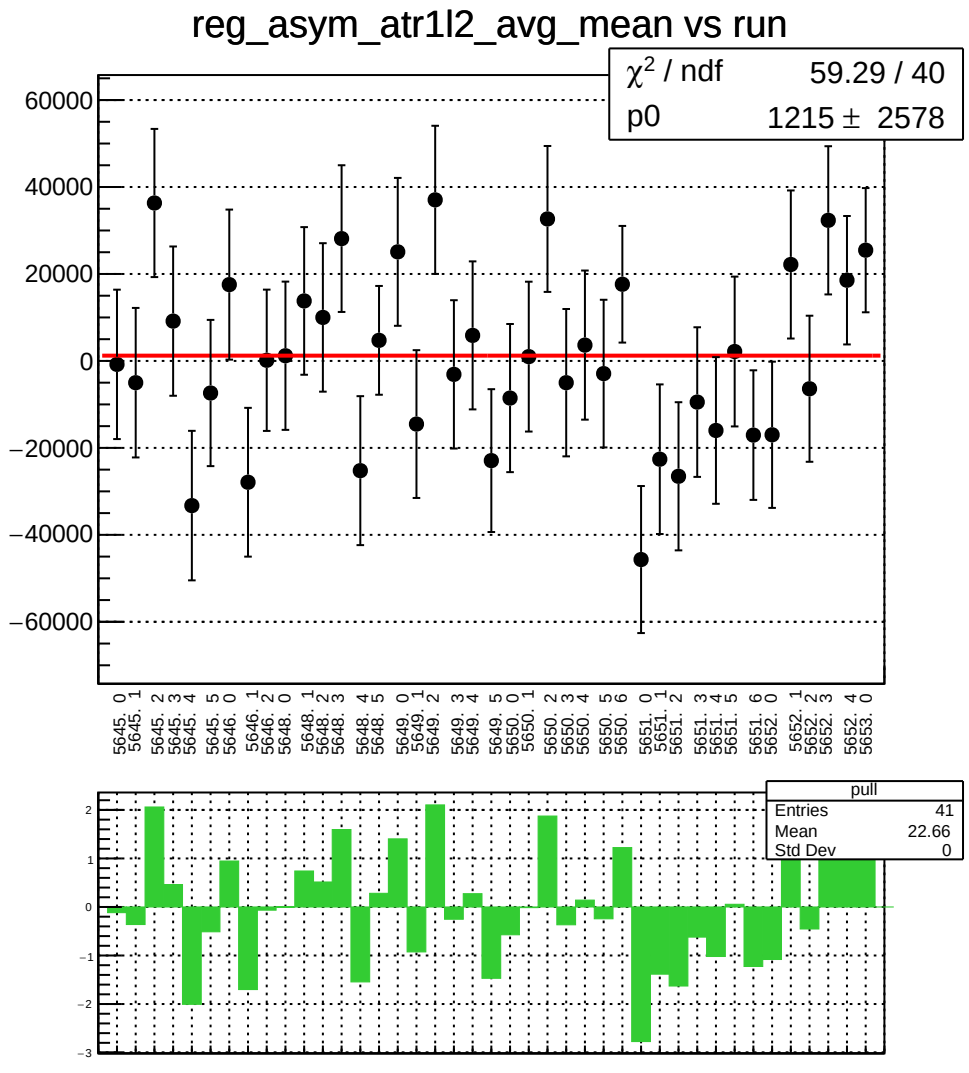

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.14 / 40
p0 −0.02181 ± 0.1437
pull
Entries 41
Mean −57.33
Std Dev 0

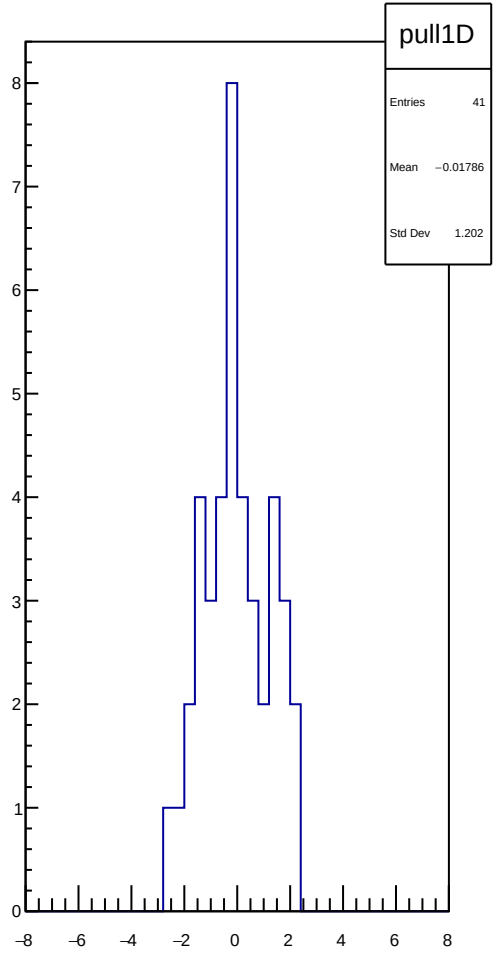

pull1D
Entries 41
Mean 0.02394
Std Dev 0.8428

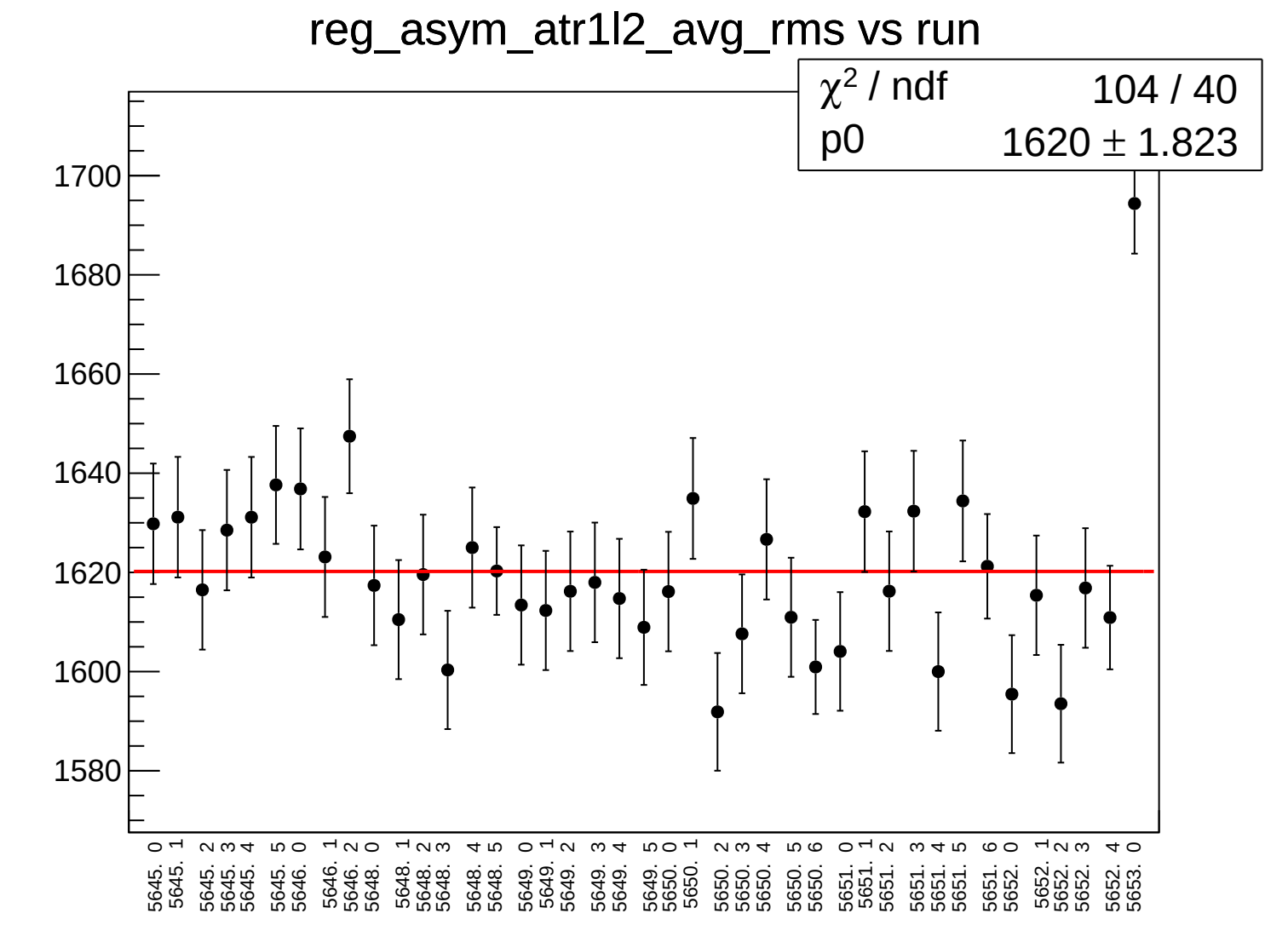

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.355e+05 / 40
p0 82.25 ± 0.1016
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

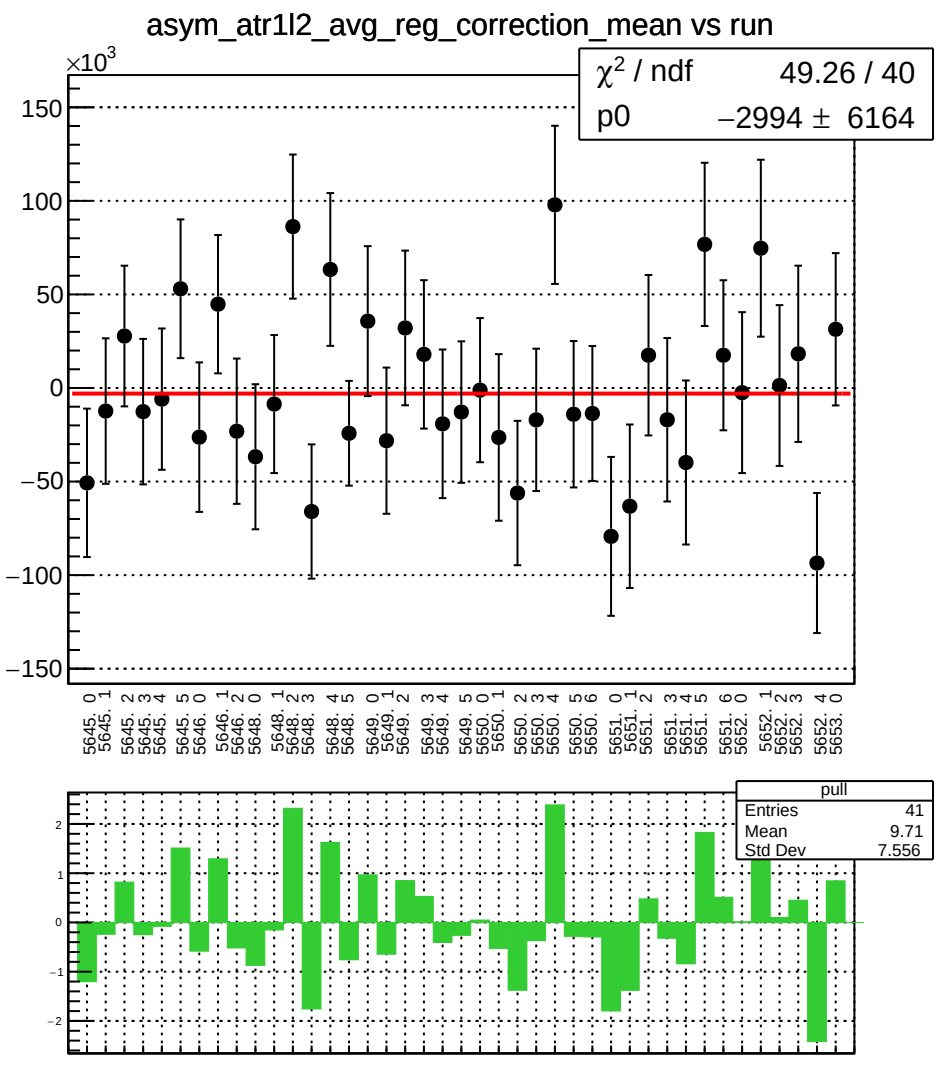

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.13 / 40
p0 −2.266e−14 ± 2.379e−13
15
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 19.3
Std Dev 10.52
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.1094
Std Dev 0.8785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

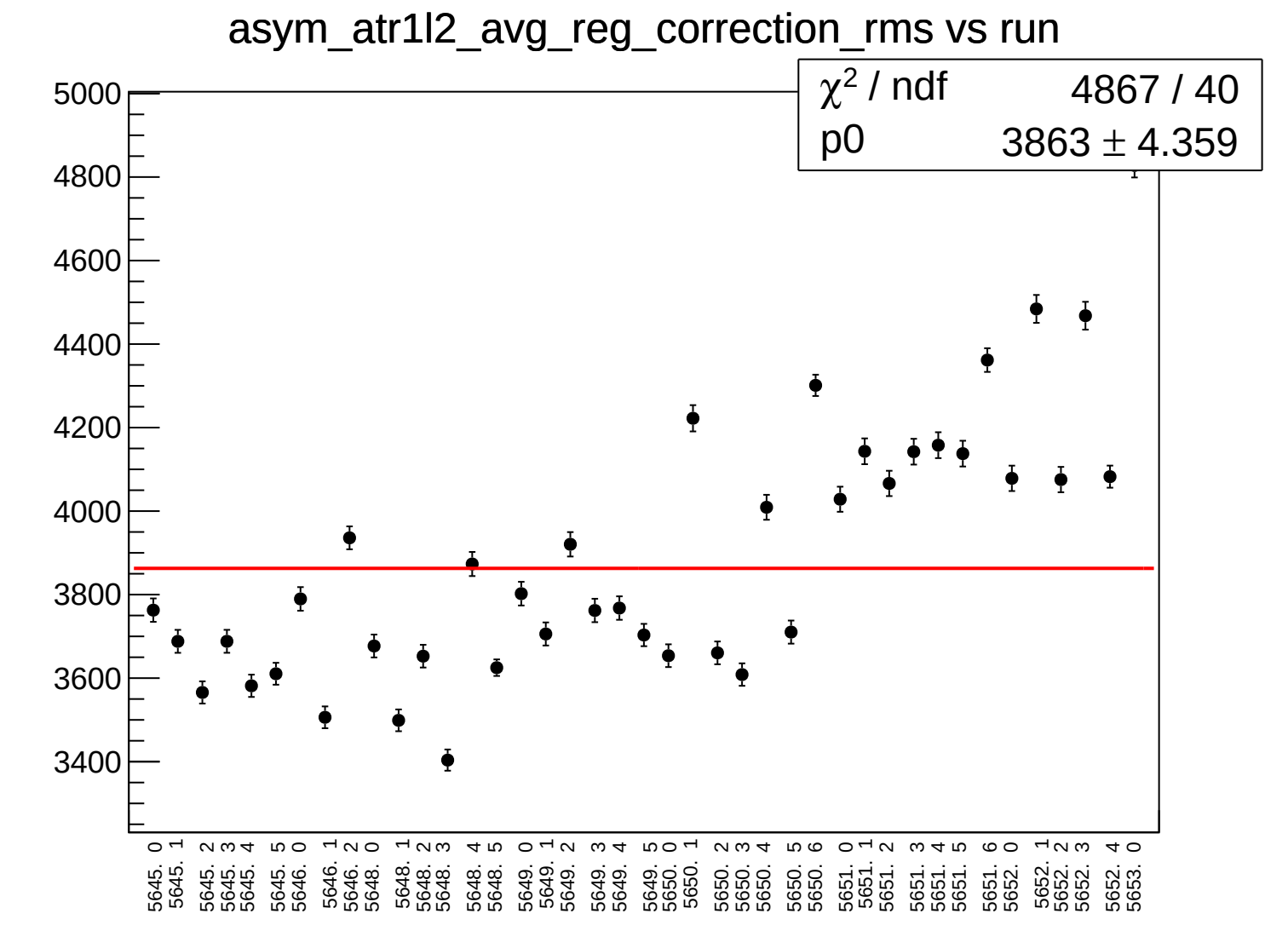

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.822e+05 / 40
p0 1.199e−10 ± 1.682e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


reg_asym_atr1l2_avg_mean vs run
χ² / ndf 59.29 / 40
p0 1215 ± 2578
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.66
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01786
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 104 / 40
p0 1620 ± 1.823
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 49.26 / 40
p0 −2994 ± 6164
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.71
Std Dev 7.556
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0217
Std Dev 1.096
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 4867 / 40
p0 3863 ± 4.359
5000
4800
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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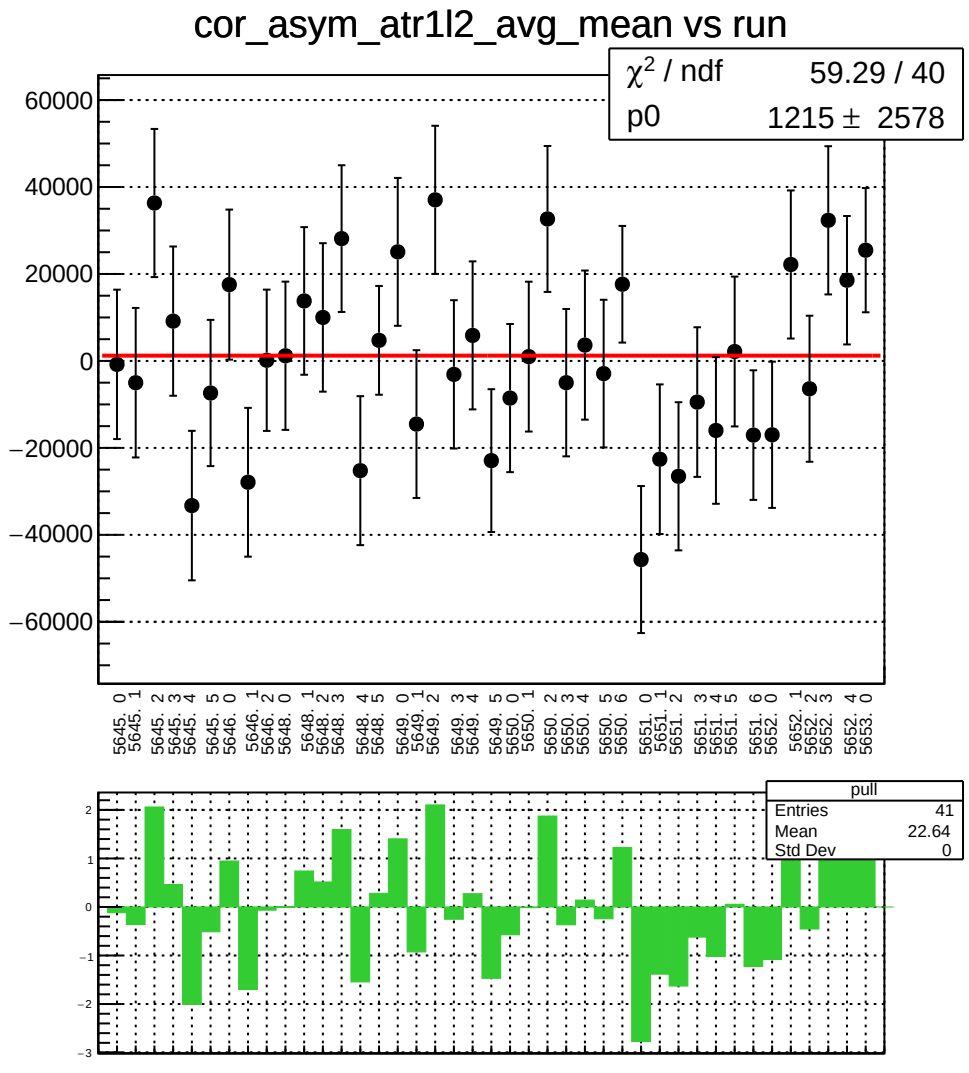
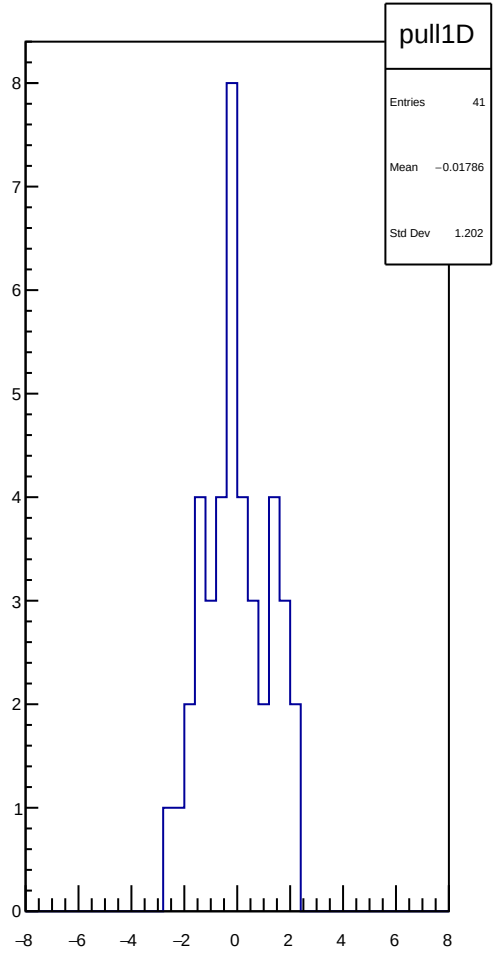
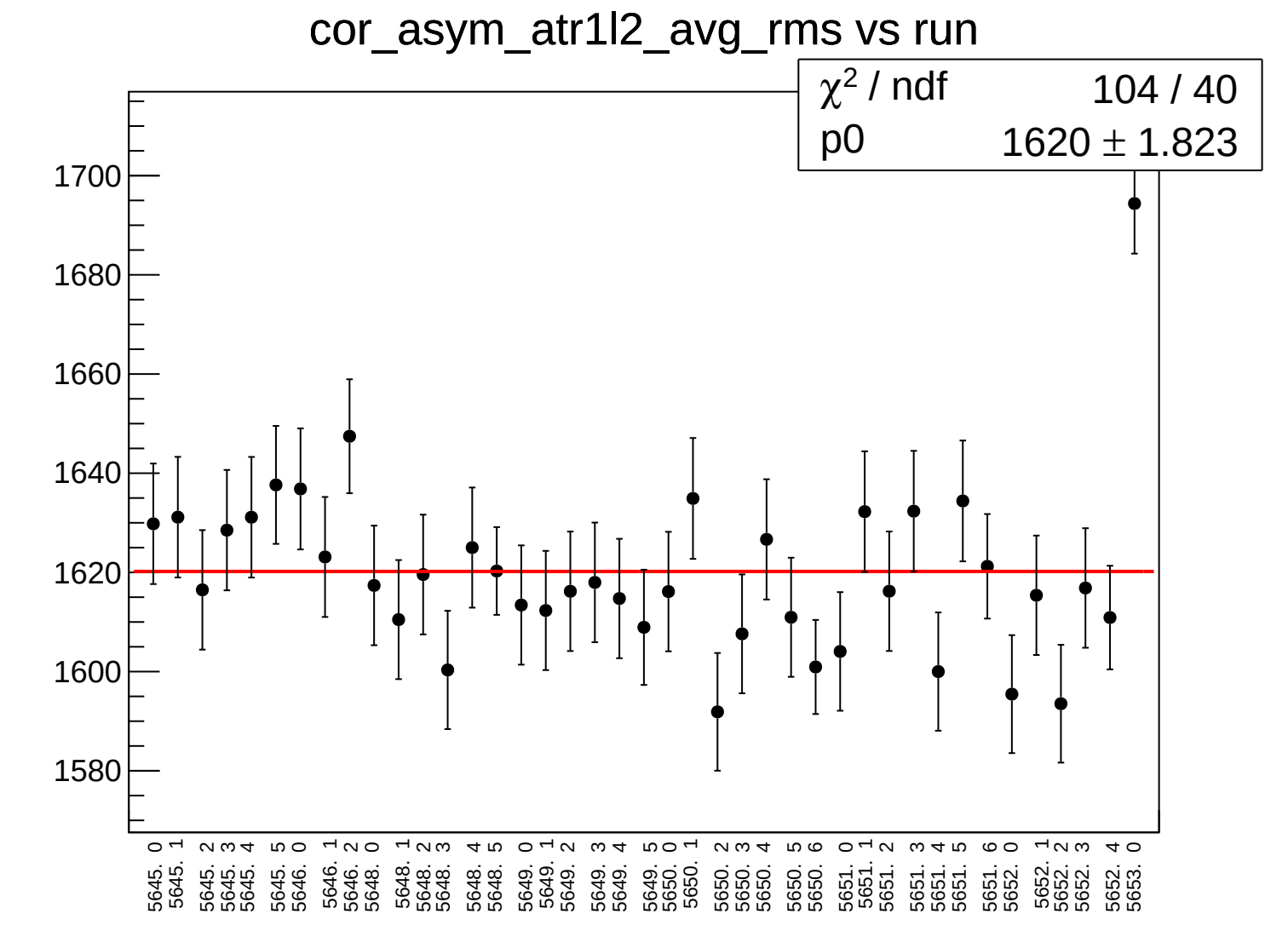
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_atr1l2_avg_mean vs run
χ² / ndf 59.29 / 40
p0 1215 ± 2578
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.64
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01786
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 104 / 40
p0 1620 ± 1.823
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
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5652. 2
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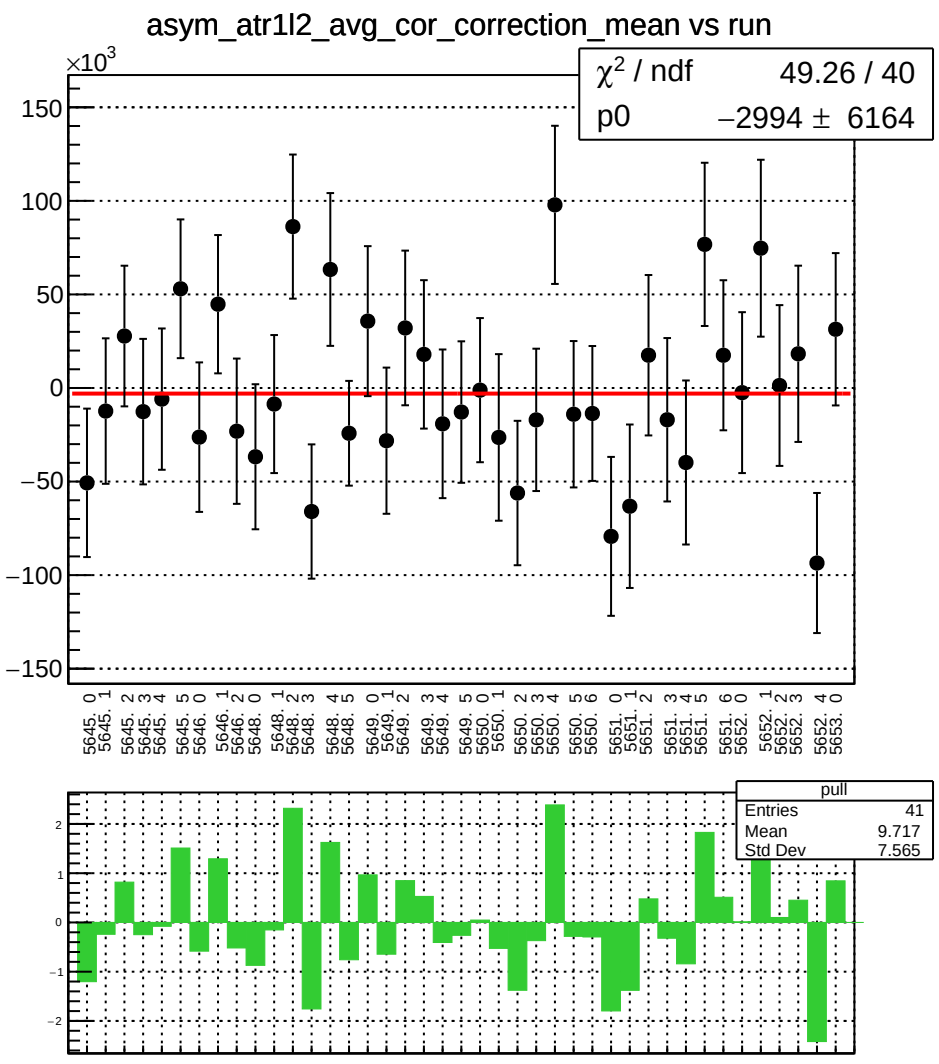
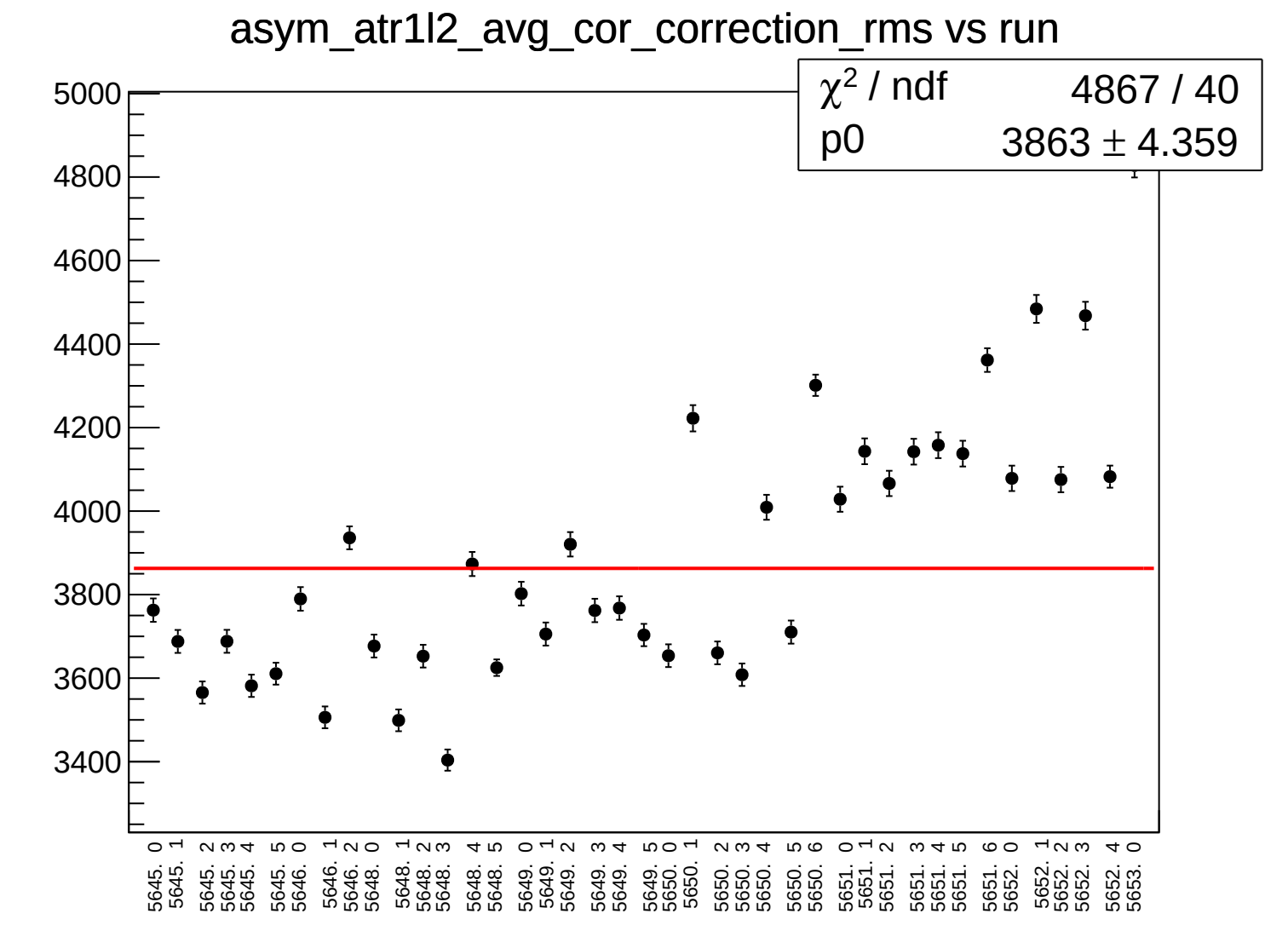
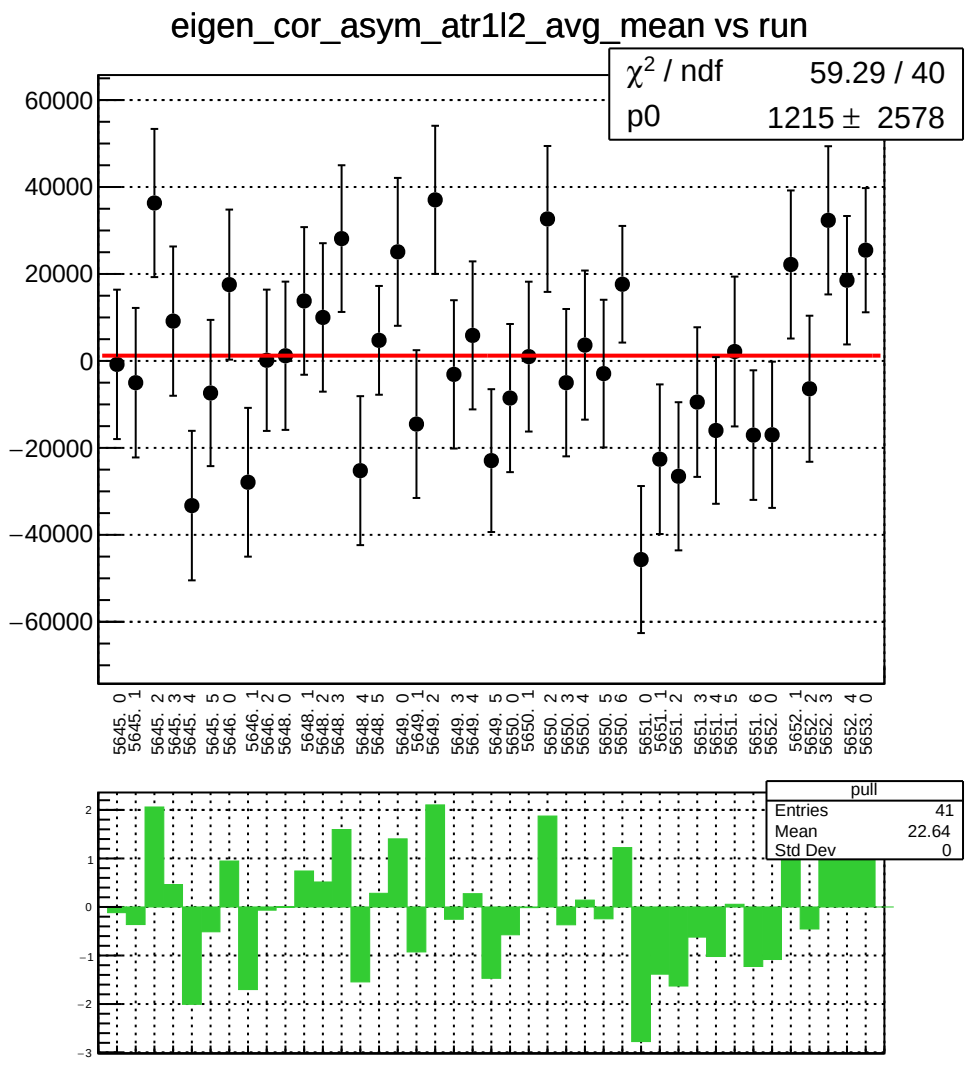
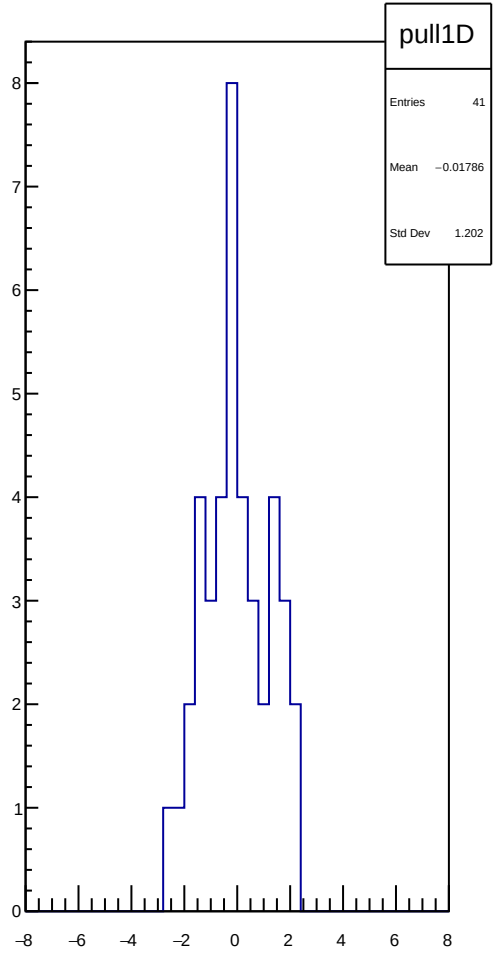
5652. 4
5653. 0


asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 49.26 / 40
p0 −2994 ± 6164
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.717
Std Dev 7.565
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02171
Std Dev 1.096
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 4867 / 40
p0 3863 ± 4.359
5000
4800
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 59.29 / 40
p0 1215 ± 2578
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.64
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01786
Std Dev 1.202
8
7
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5
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3
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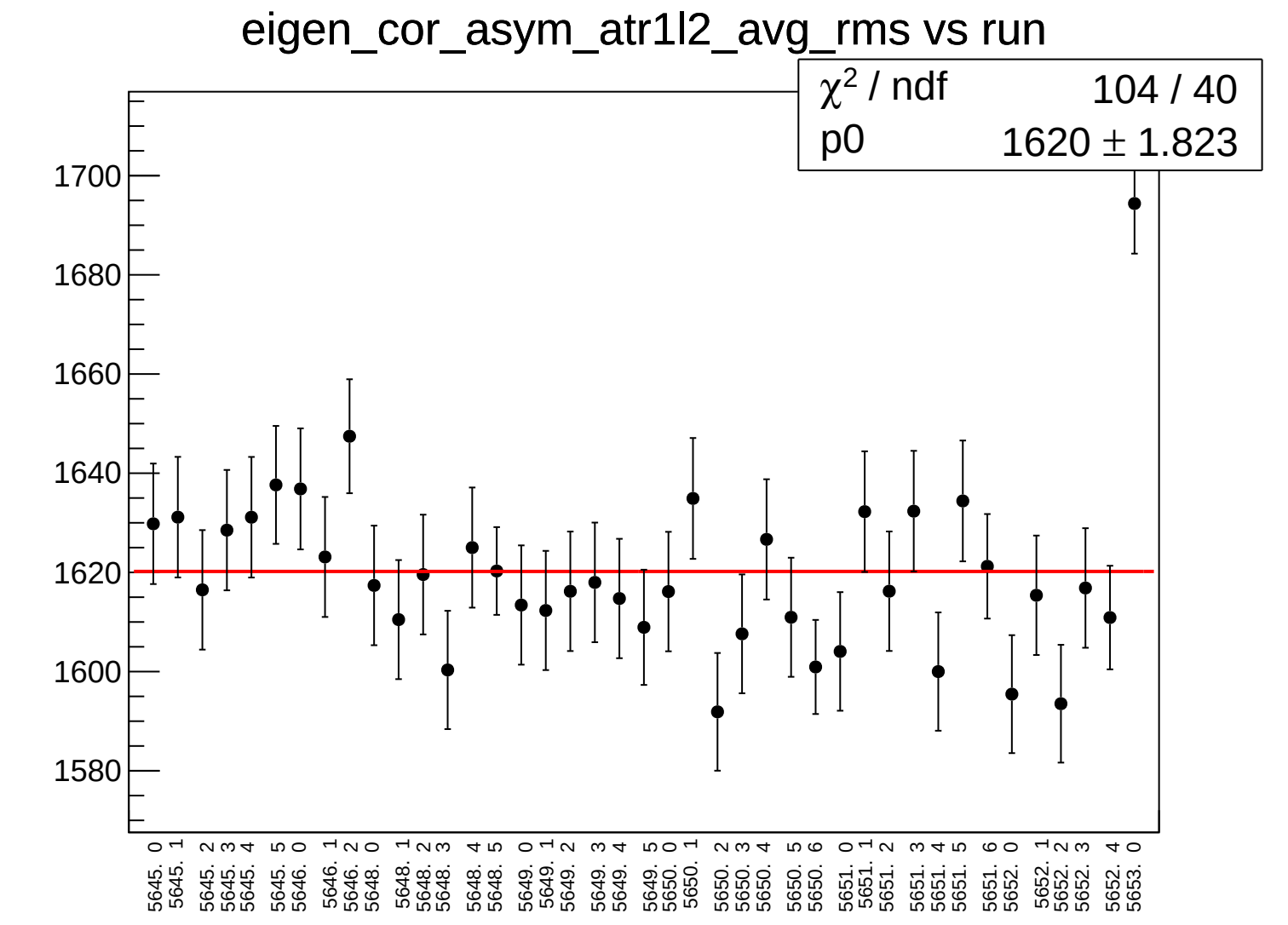
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 104 / 40
p0 1620 ± 1.823
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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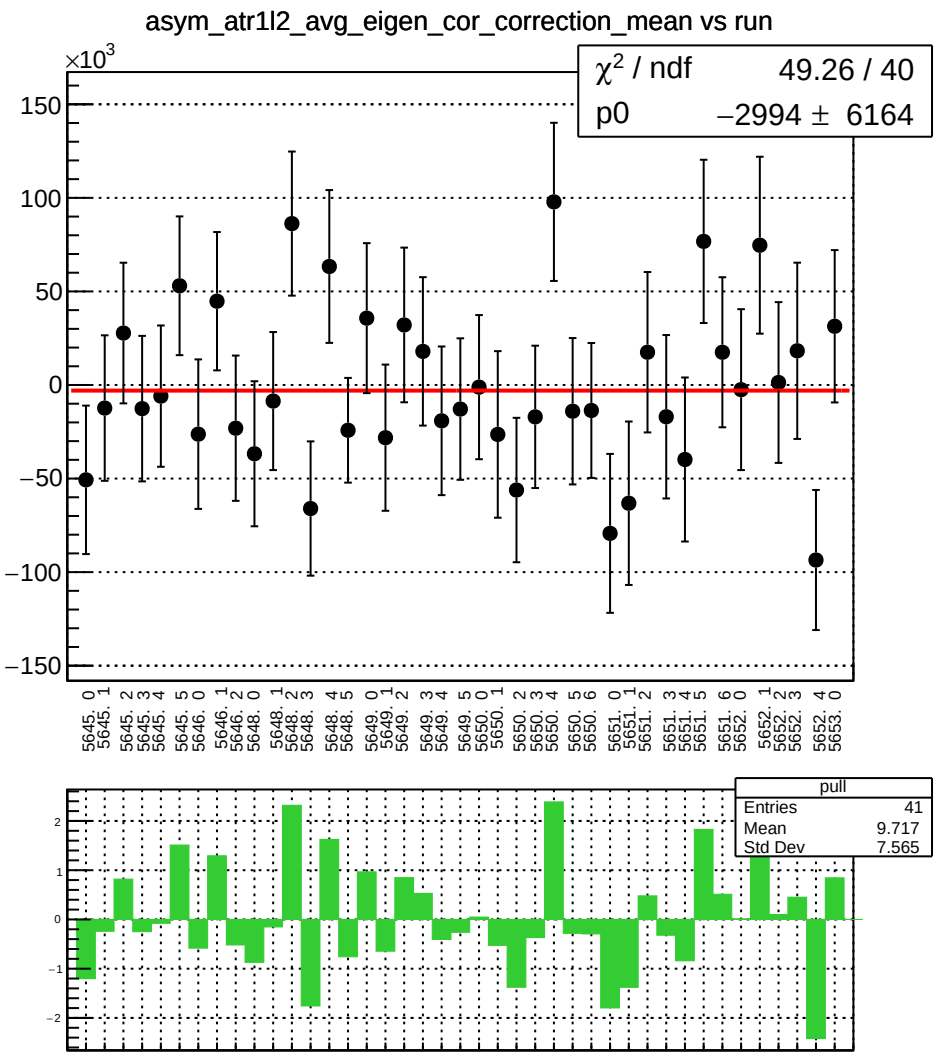
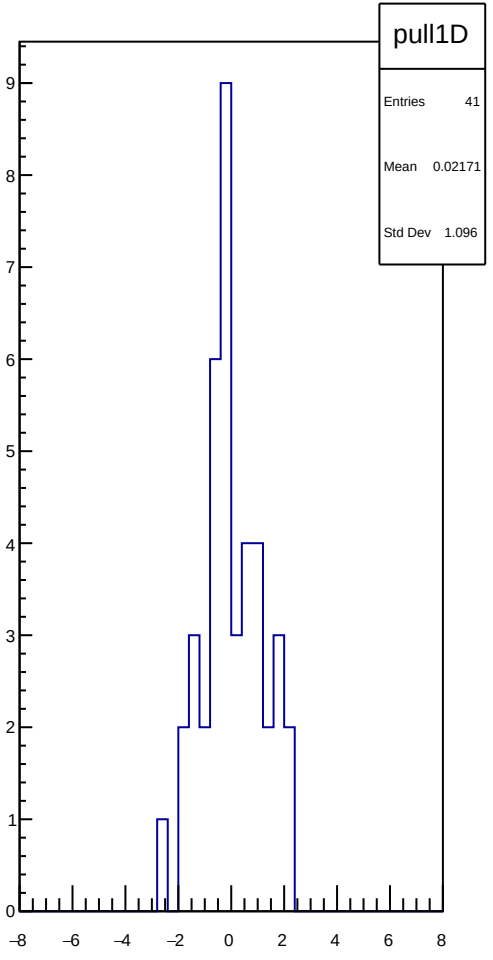
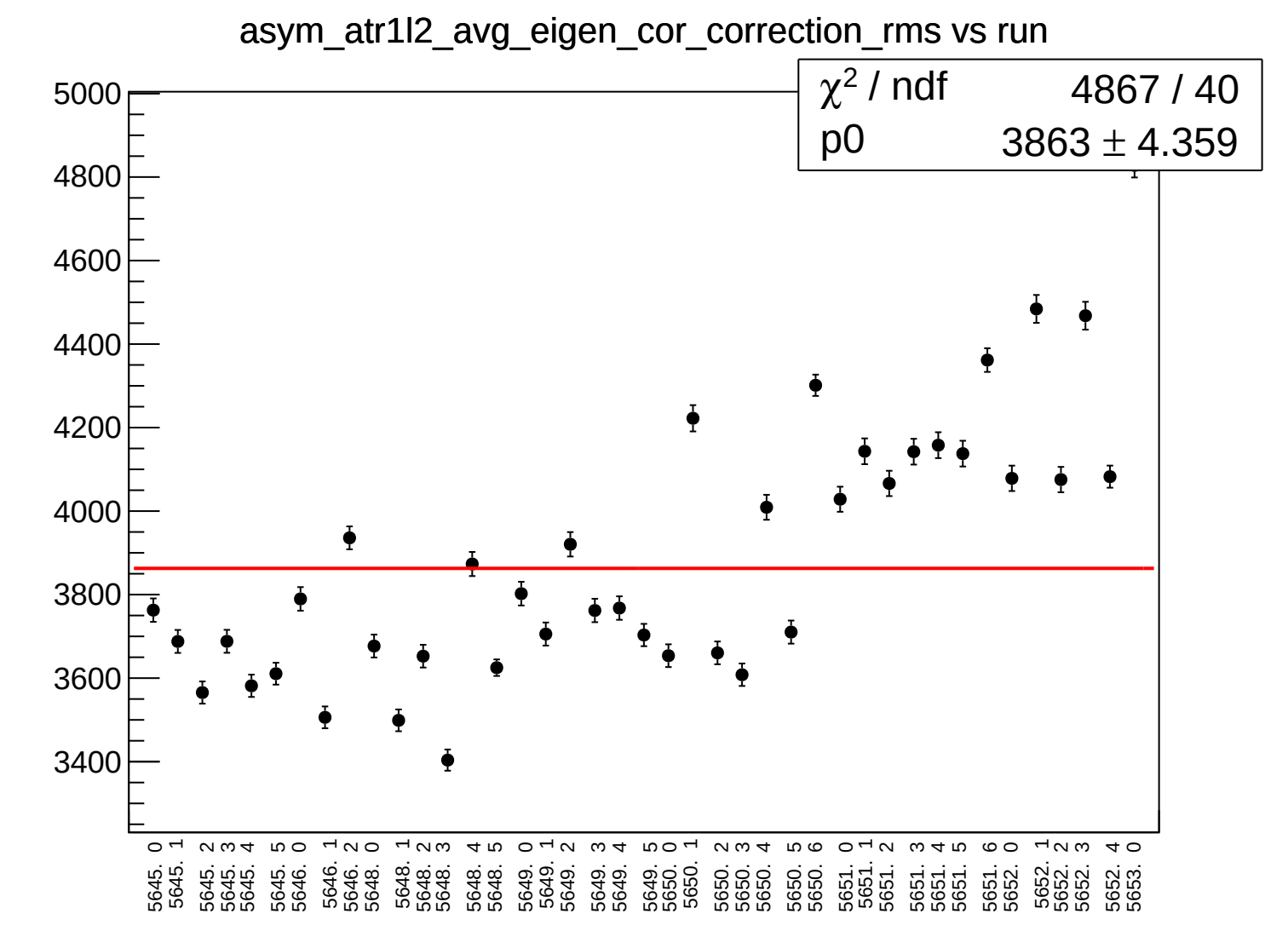
5652. 4
5653. 0


asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 49.26 / 40
p0 −2994 ± 6164
150
100
50
0
−50
−100
−150
pull
Entries 41
Mean 9.717
Std Dev 7.565
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.02171
Std Dev 1.096
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 4867 / 40
p0 3863 ± 4.359
5000
4800
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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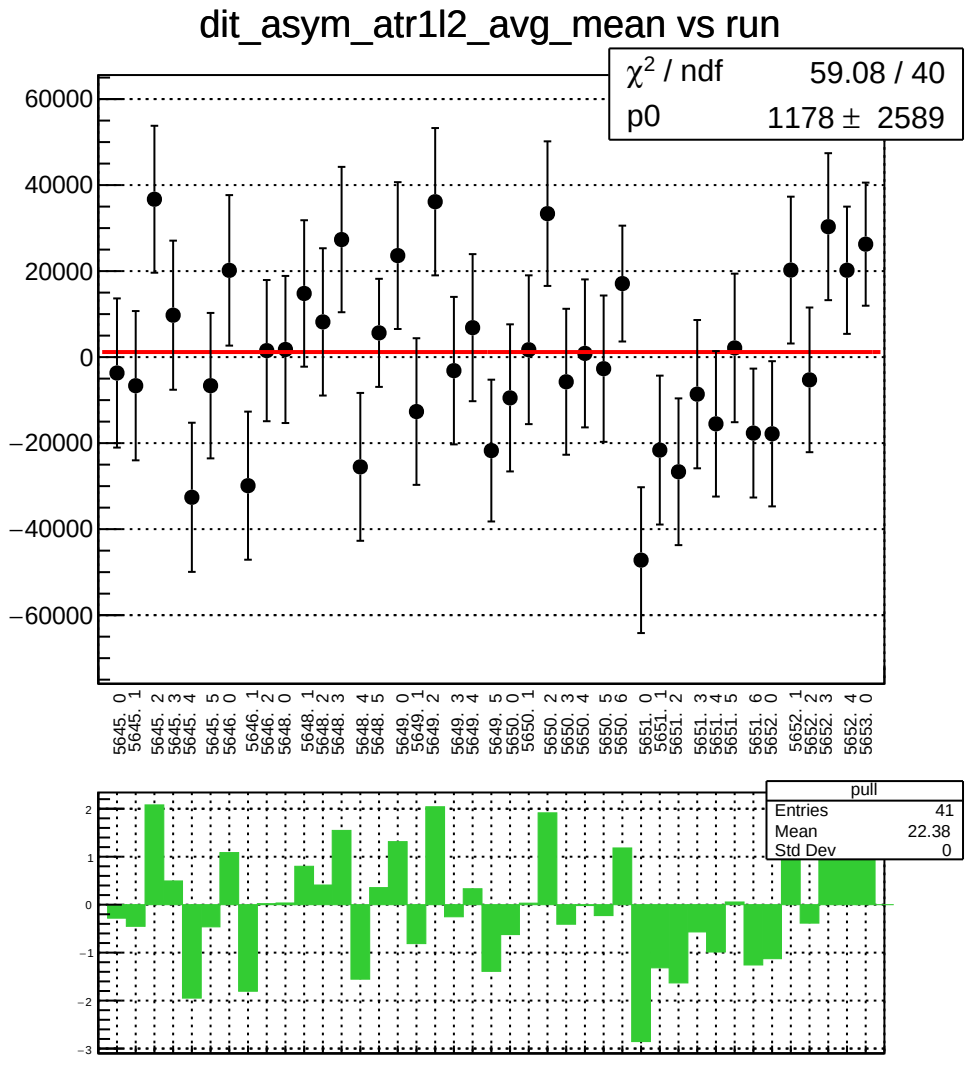
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_atr1l2_avg_mean vs run
χ² / ndf 59.08 / 40
p0 1178 ± 2589
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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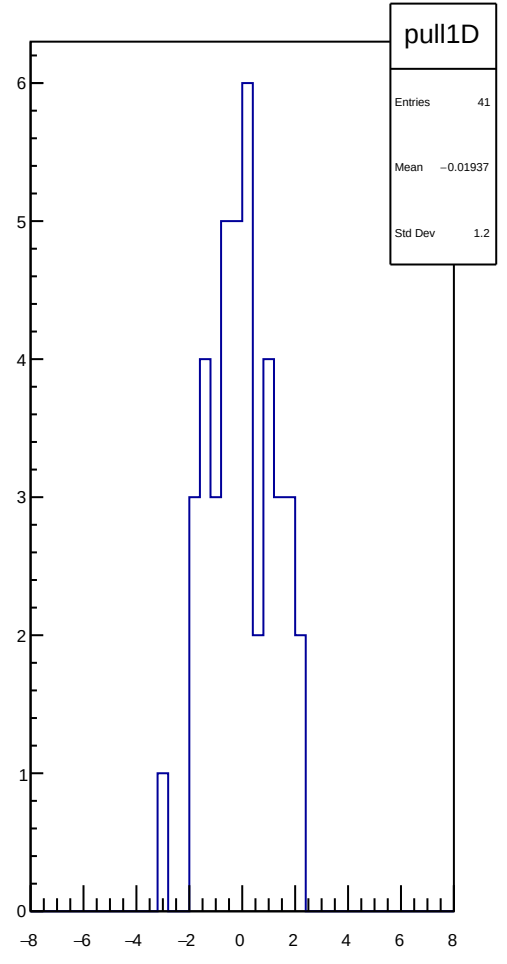
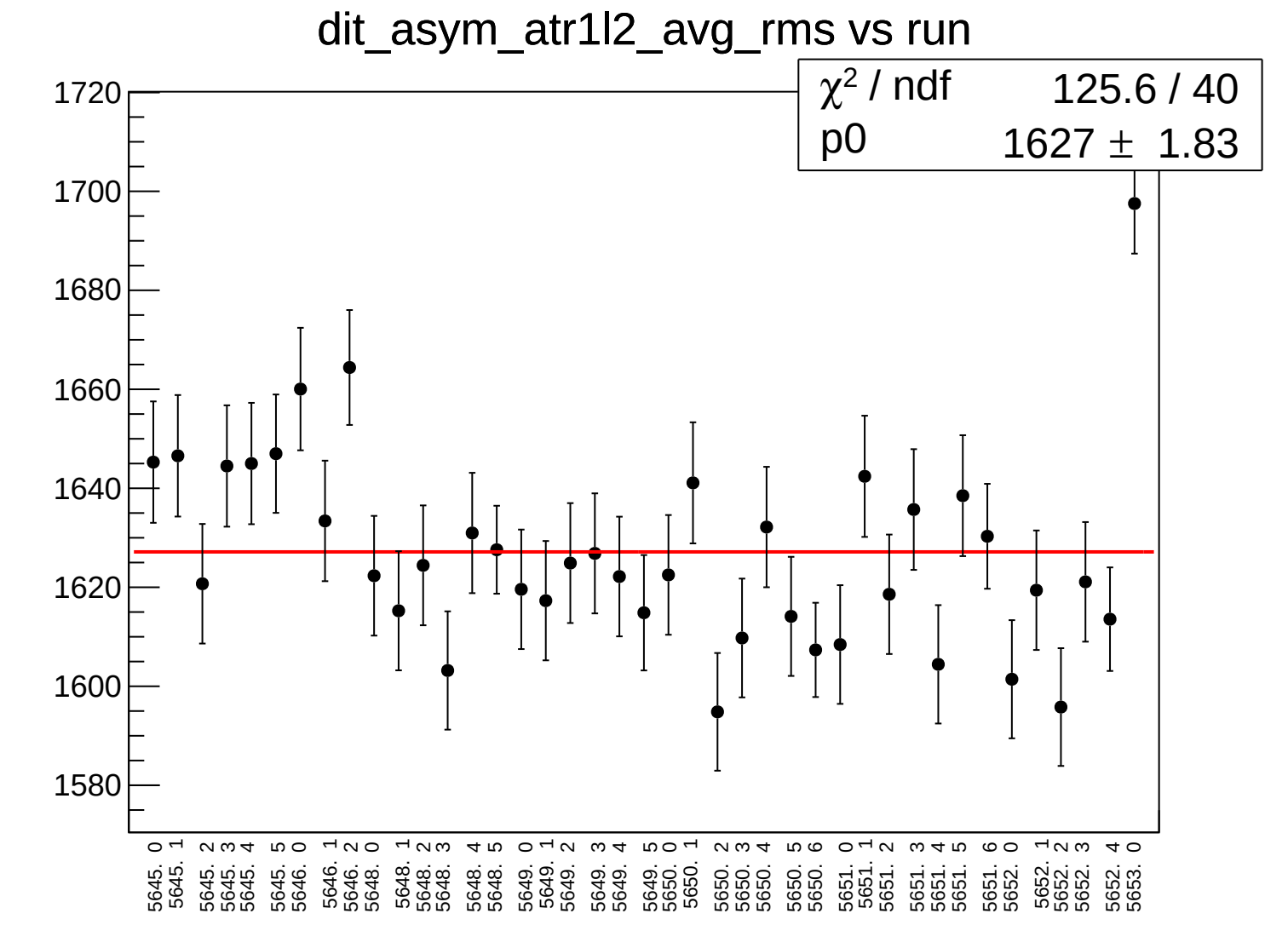
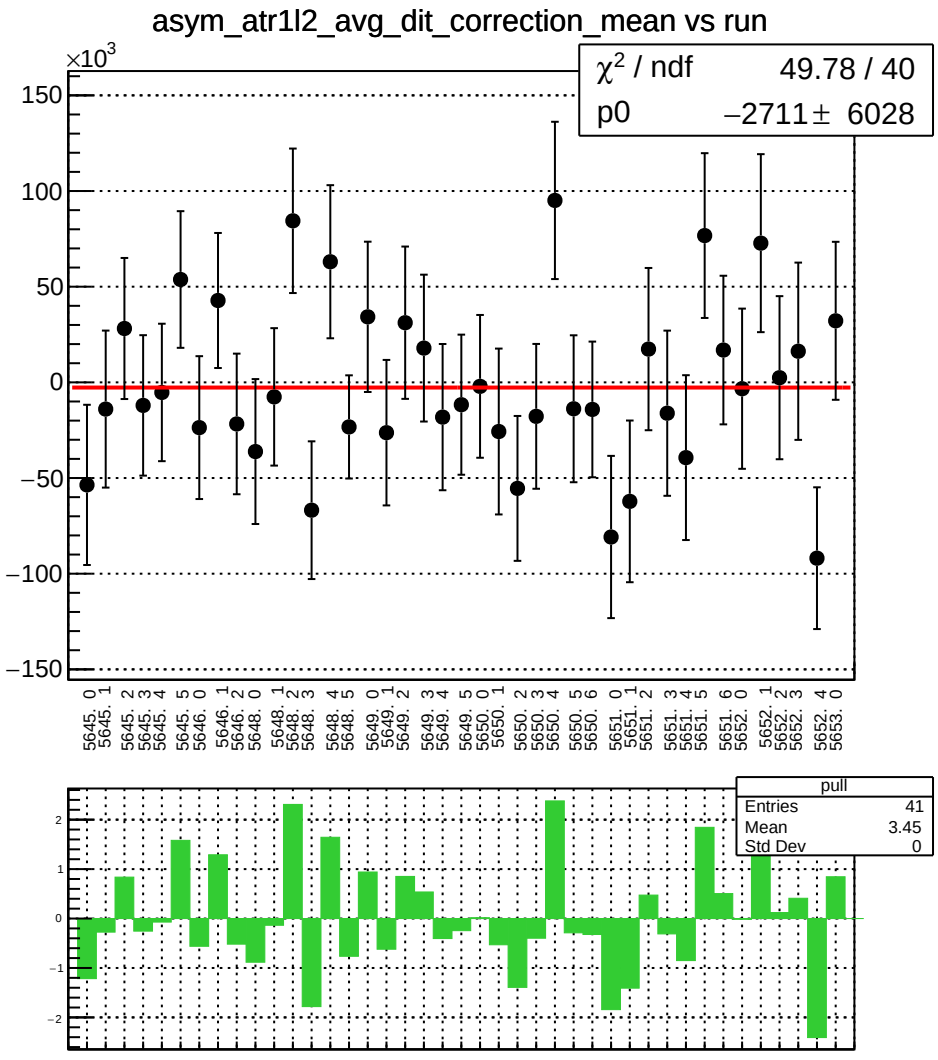
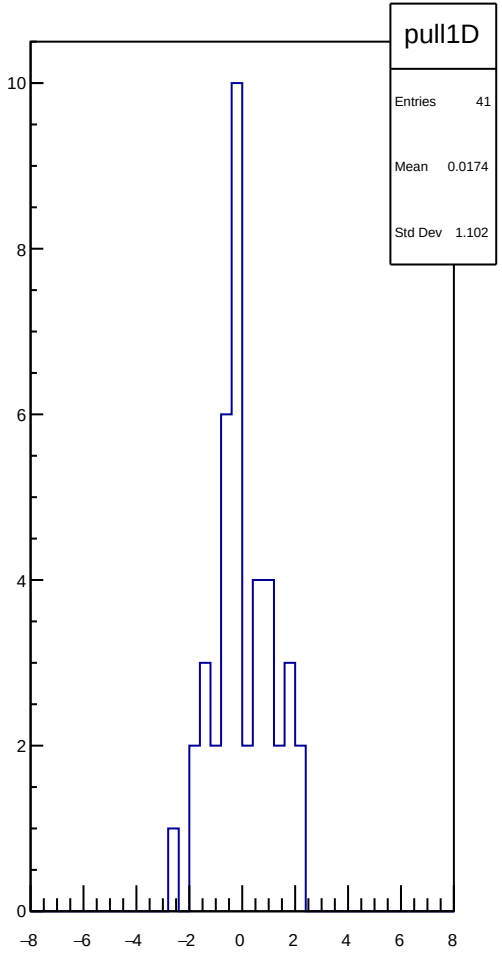
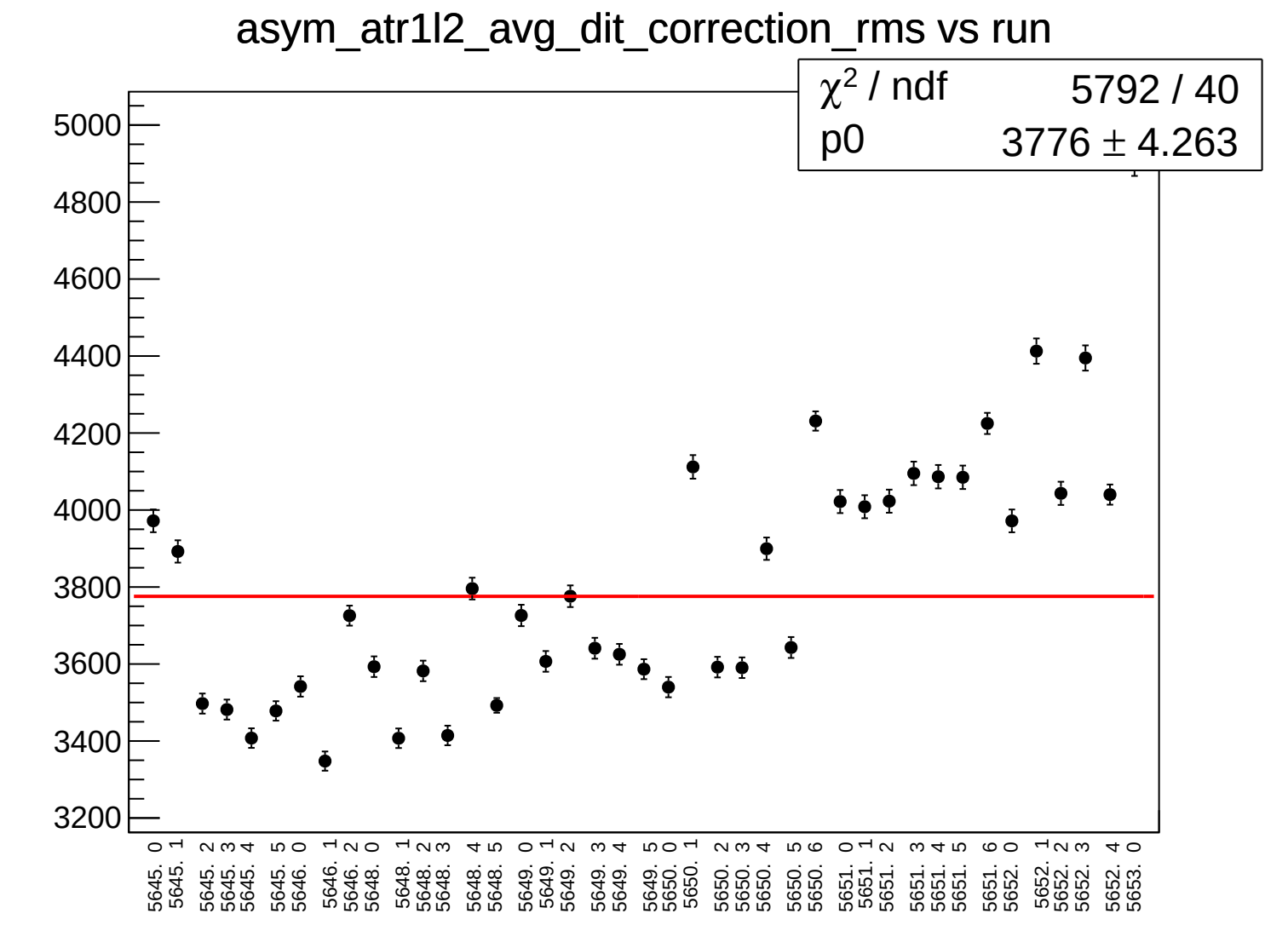
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.38
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01937
Std Dev 1.2
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1l2_avg_rms vs run
χ² / ndf 125.6 / 40
p0 1627 ± 1.83
1720
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.78 / 40
p0 −2711 ± 6028
150
100
50
0
−50
−100
−150
pull
Entries 41
Mean 3.45
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.0174
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 5792 / 40
p0 3776 ± 4.263
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
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5652. 2
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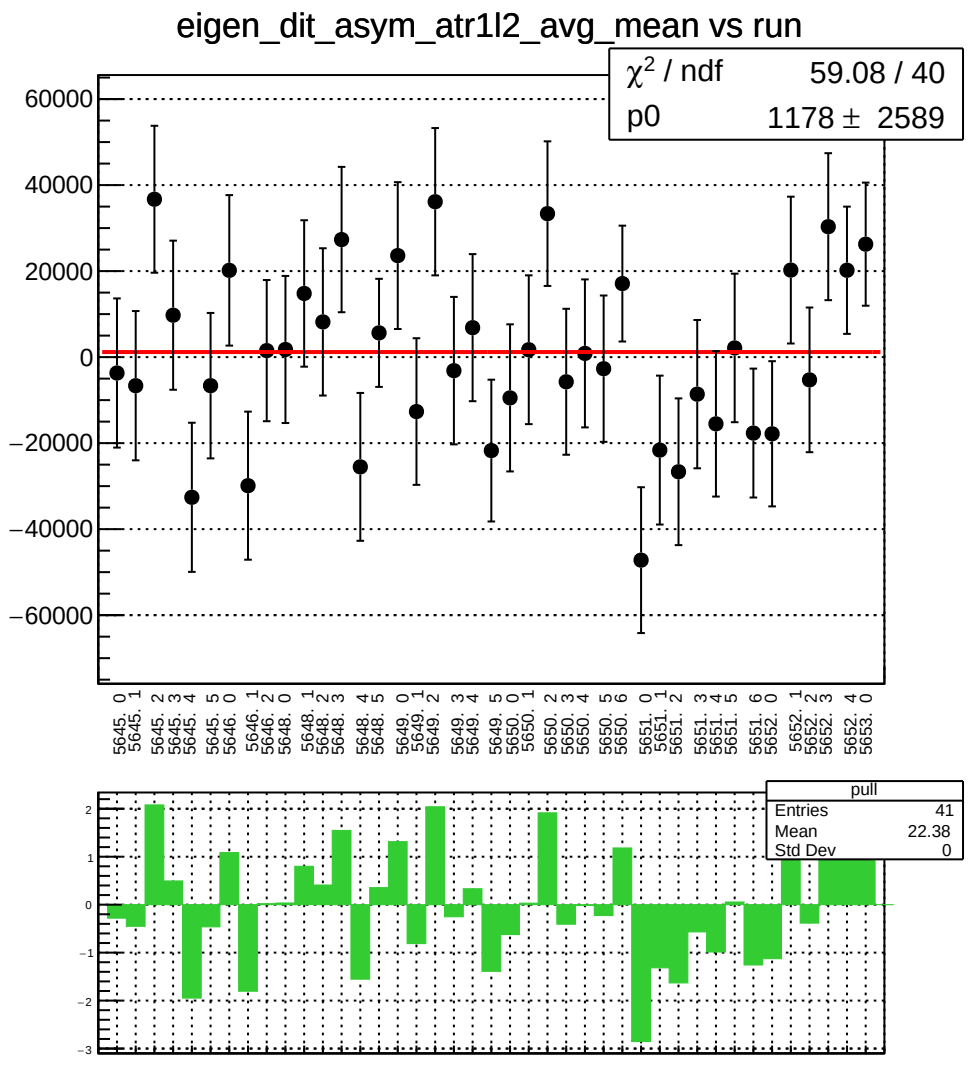
5653. 0


eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 59.08 / 40
p0 1178 ± 2589
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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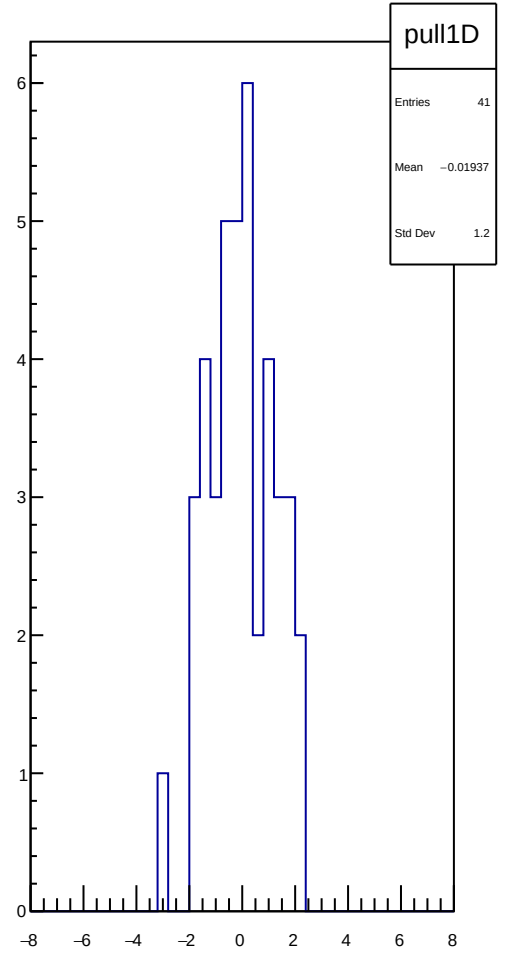
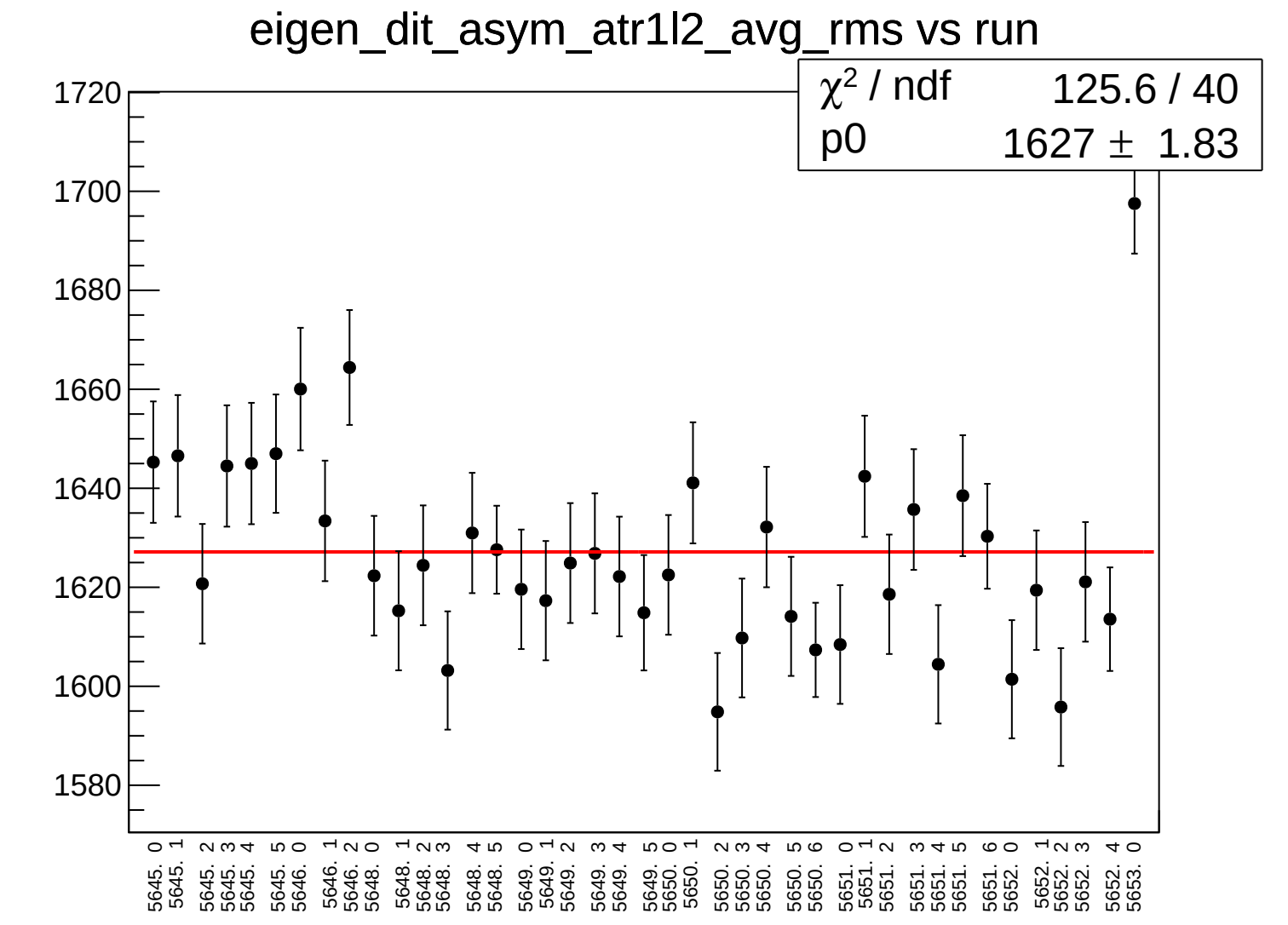
5653. 0
pull
Entries 41
Mean 22.38
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean −0.01937
Std Dev 1.2
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 125.6 / 40
p0 1627 ± 1.83
1720
1700
1680
1660
1640
1620
1600
1580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5648. 1
5648. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
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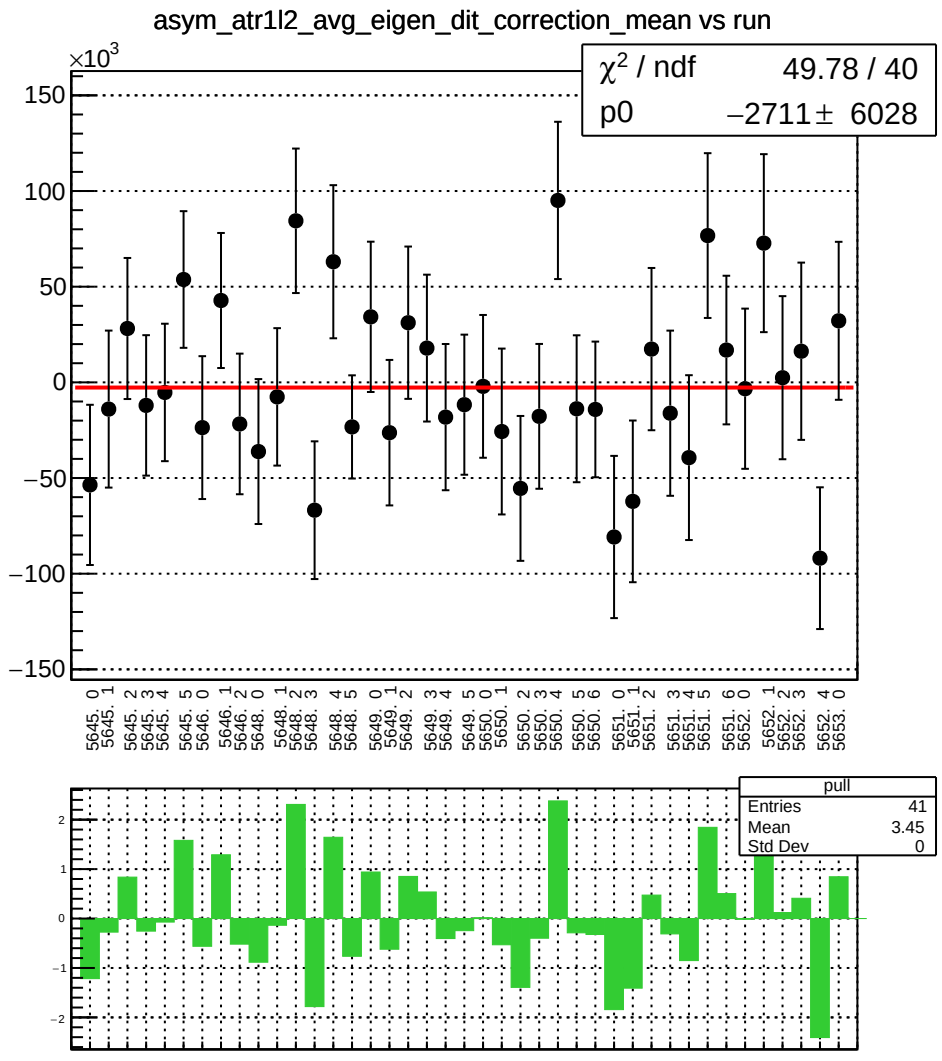
asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.78 / 40
p0 −2711 ± 6028
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
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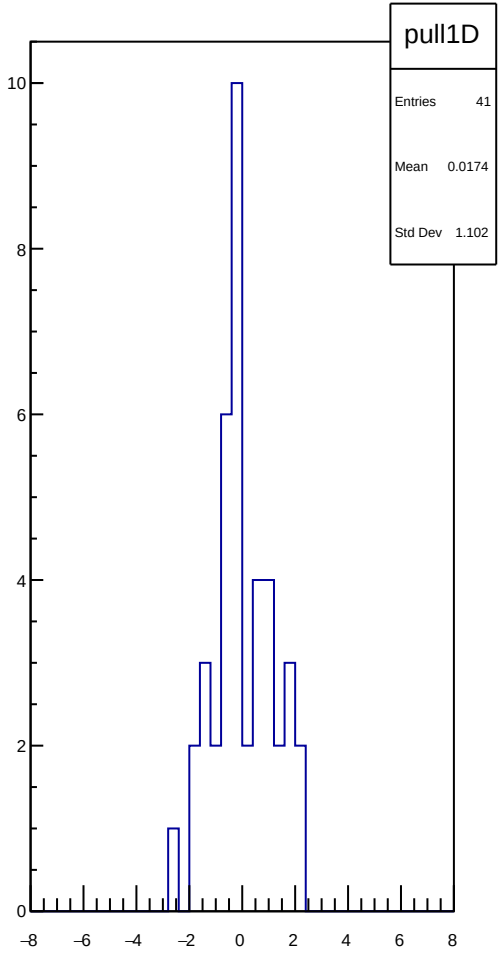
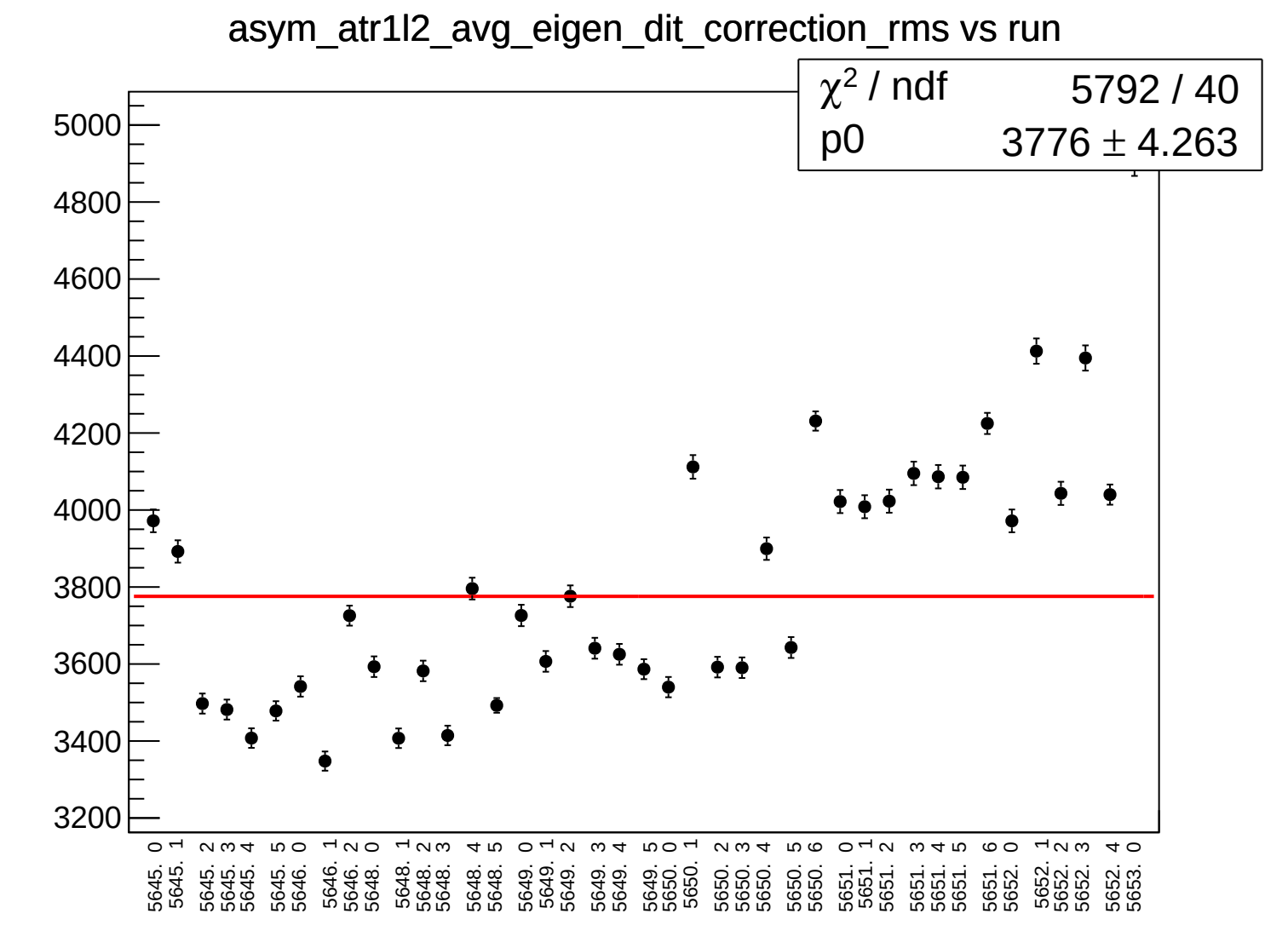
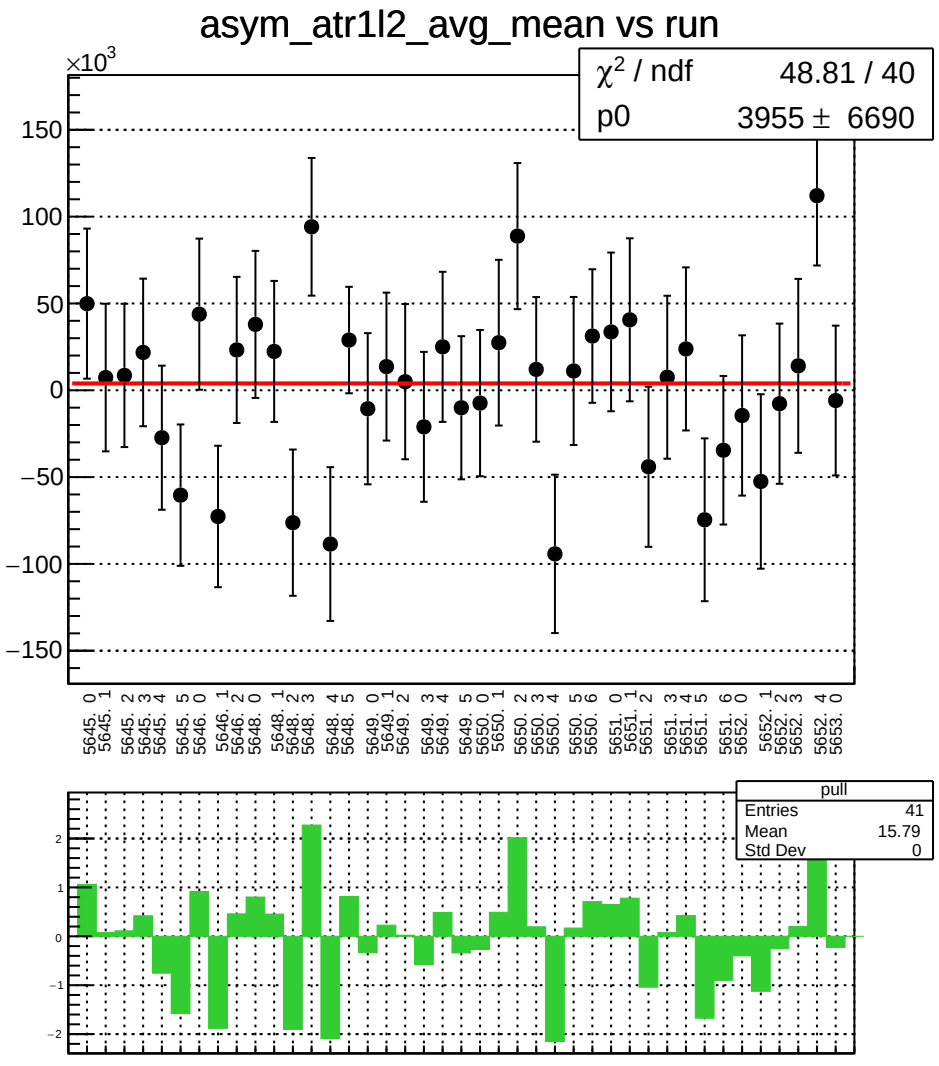
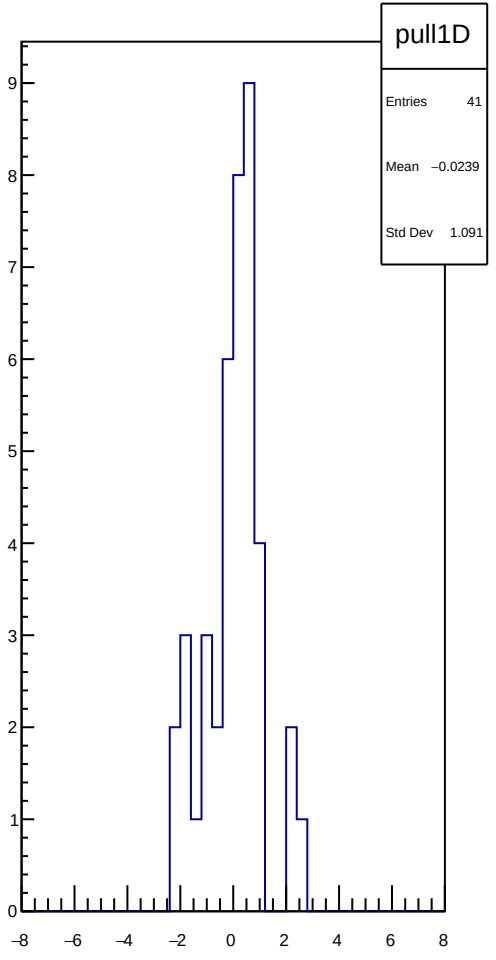
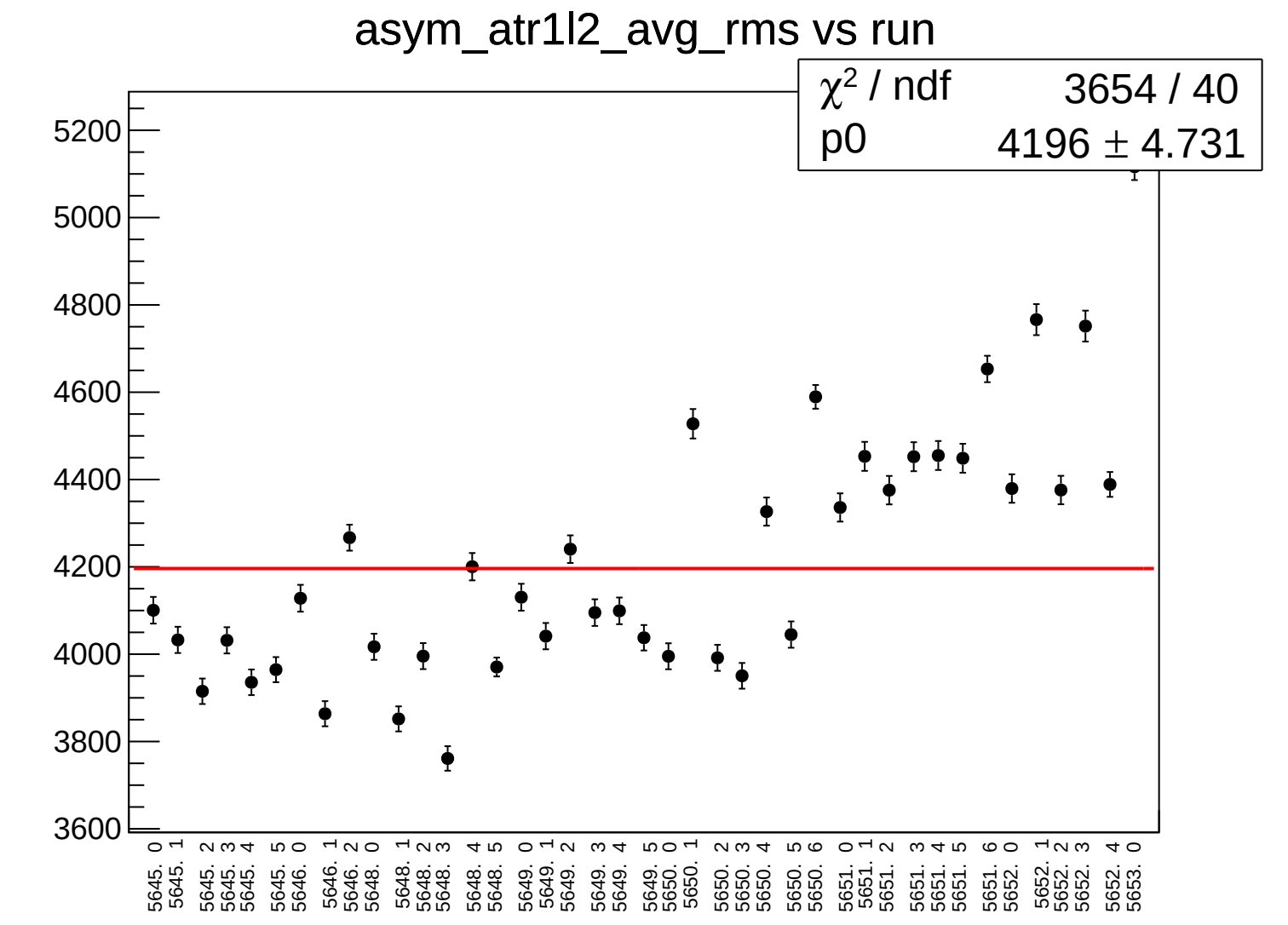
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 3.45
Std Dev 0
2
1
0
−1
−2

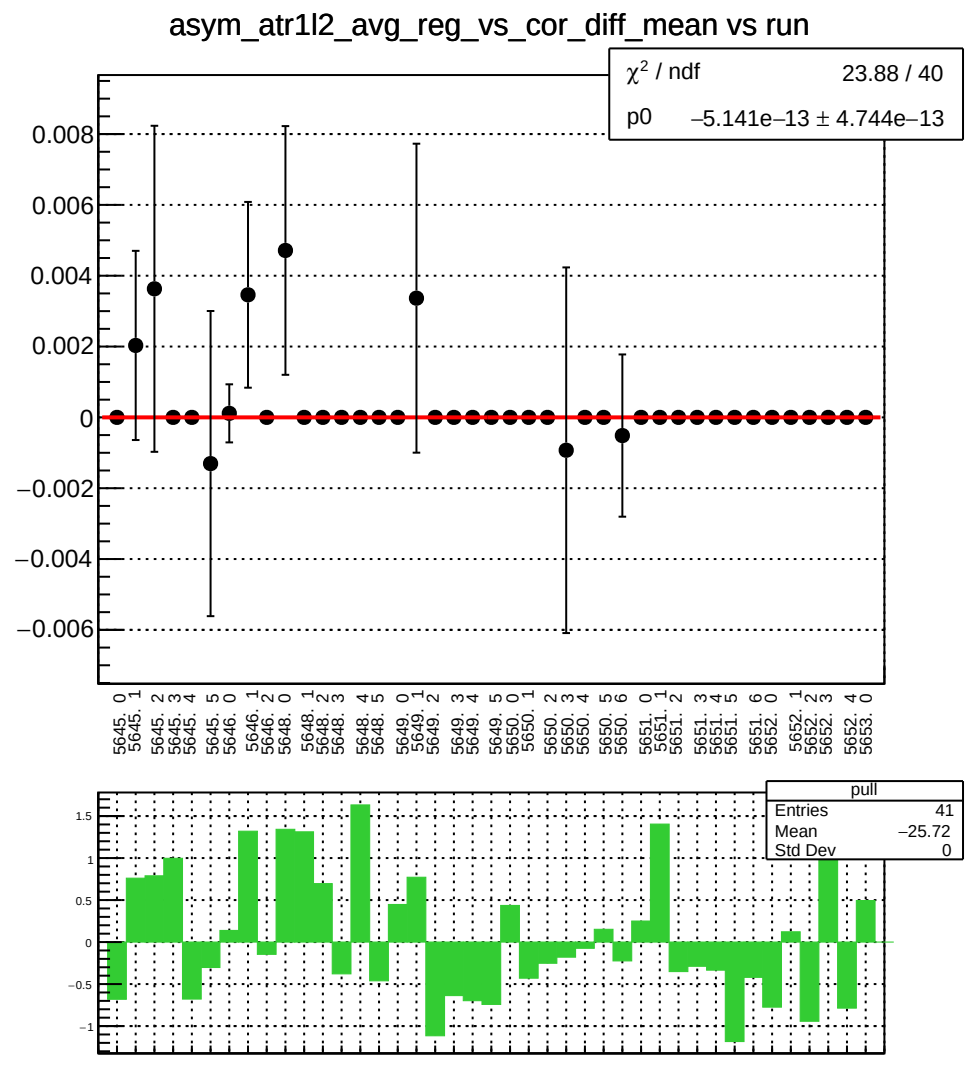

pull1D
Entries 41
Mean 0.0174
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

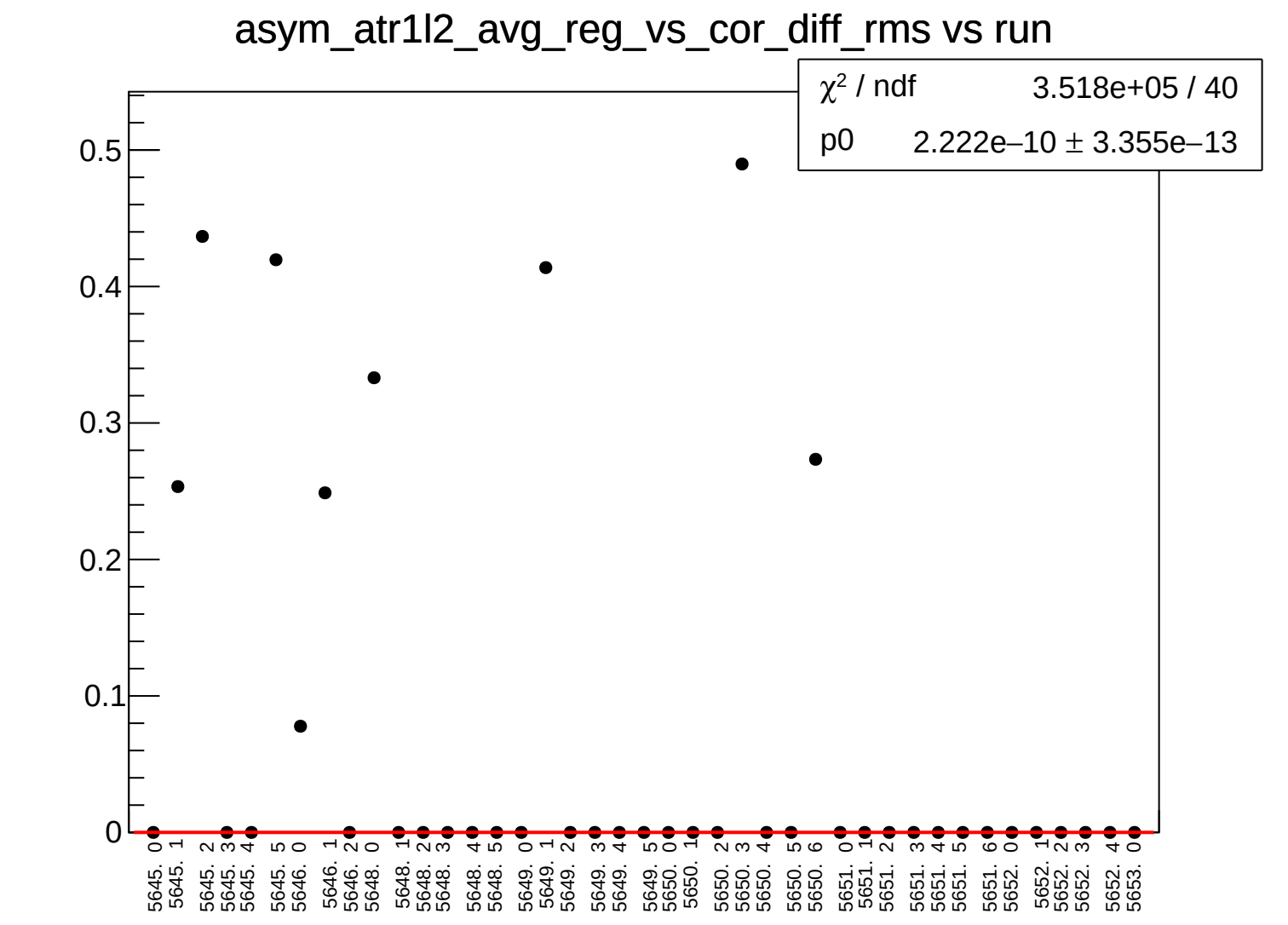

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5792 / 40
p0 3776 ± 4.263
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

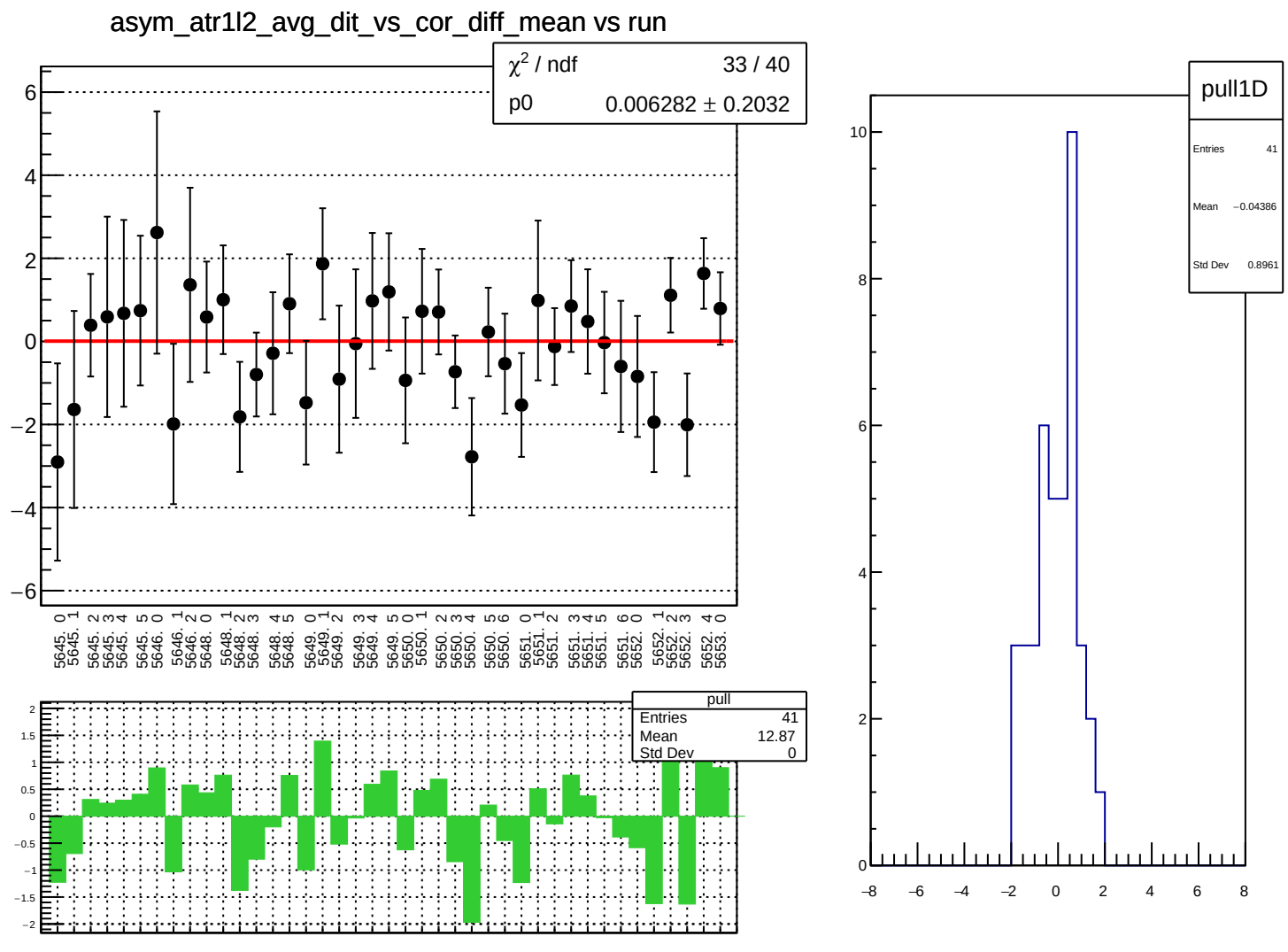

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 48.81 / 40
p0 3955 ± 6690
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.79
Std Dev 0
2
1
0
−1
−2

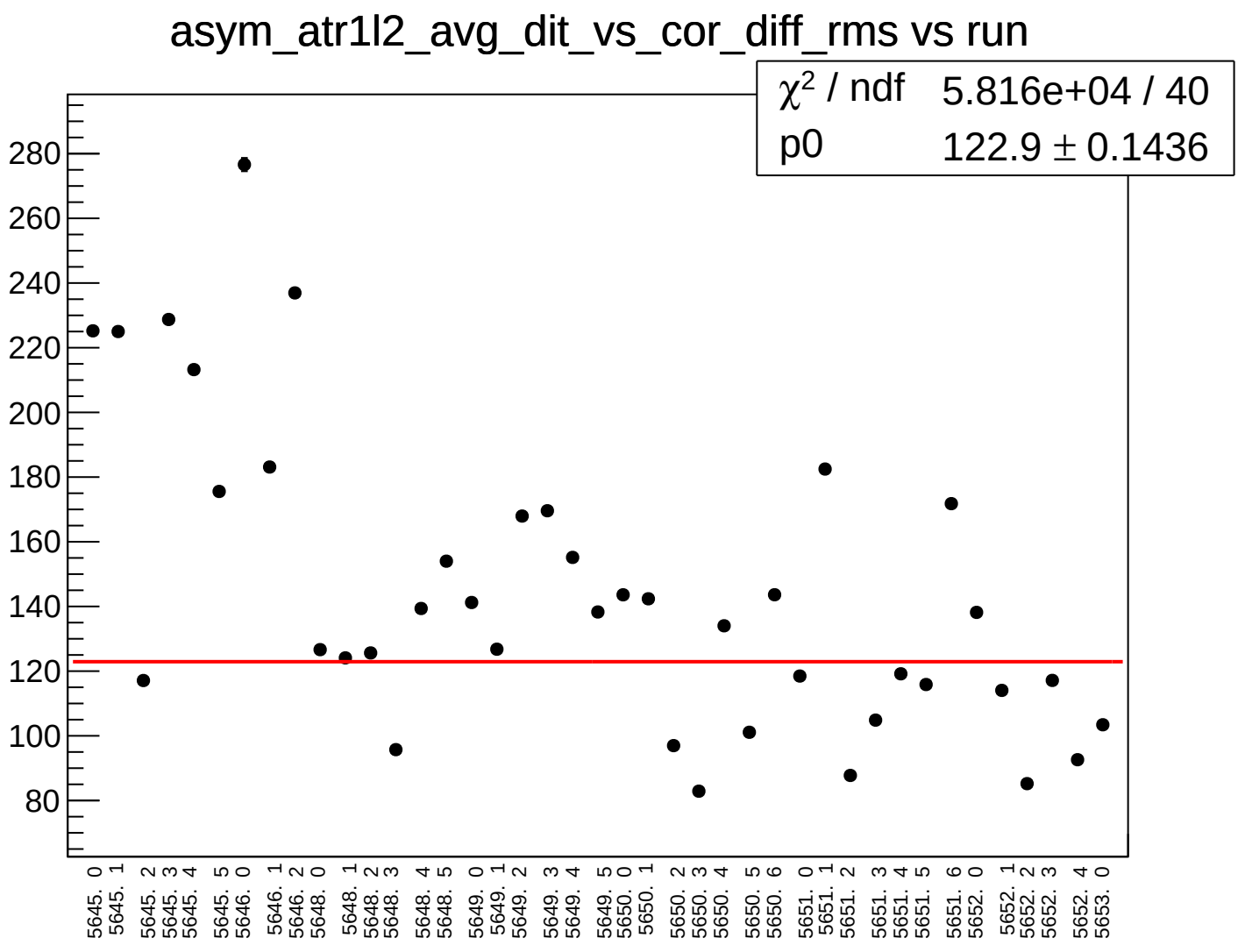

pull1D
Entries 41
Mean −0.0239
Std Dev 1.091
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

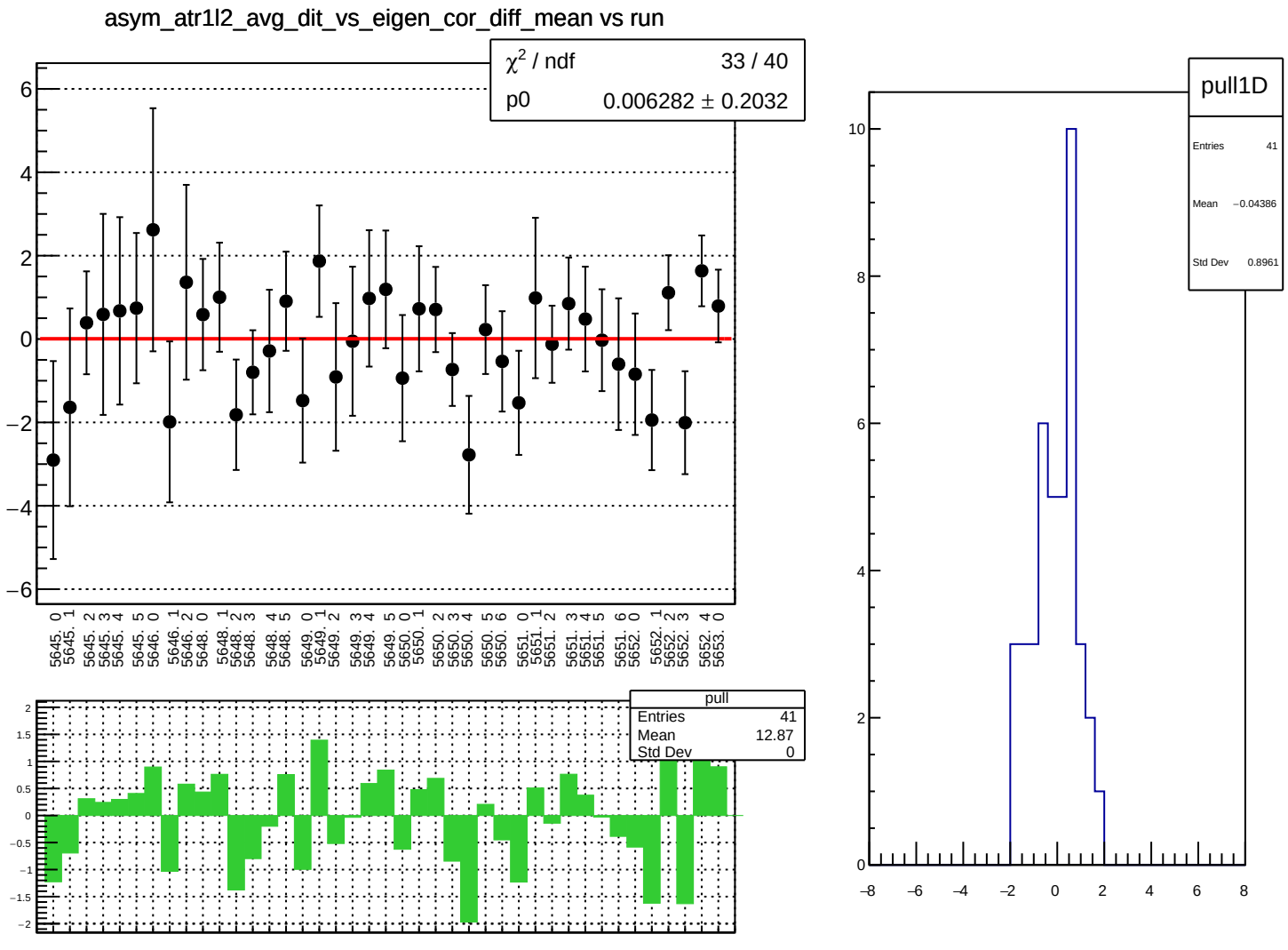

asym_atr1l2_avg_rms vs run
χ² / ndf 3654 / 40
p0 4196 ± 4.731
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

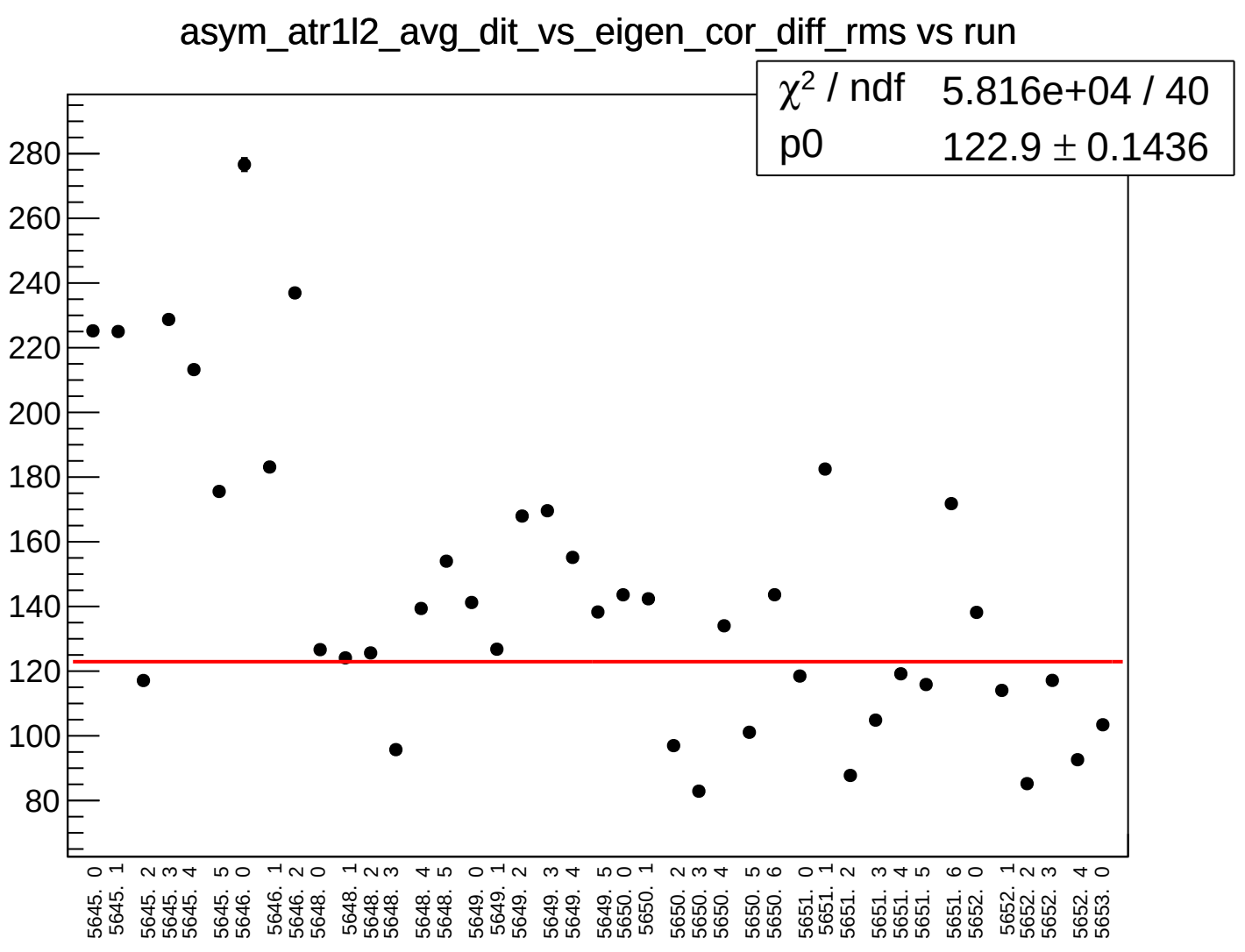

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.88 / 40
p0 −5.141e−13 ± 4.744e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −25.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.05408
Std Dev 0.7612
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

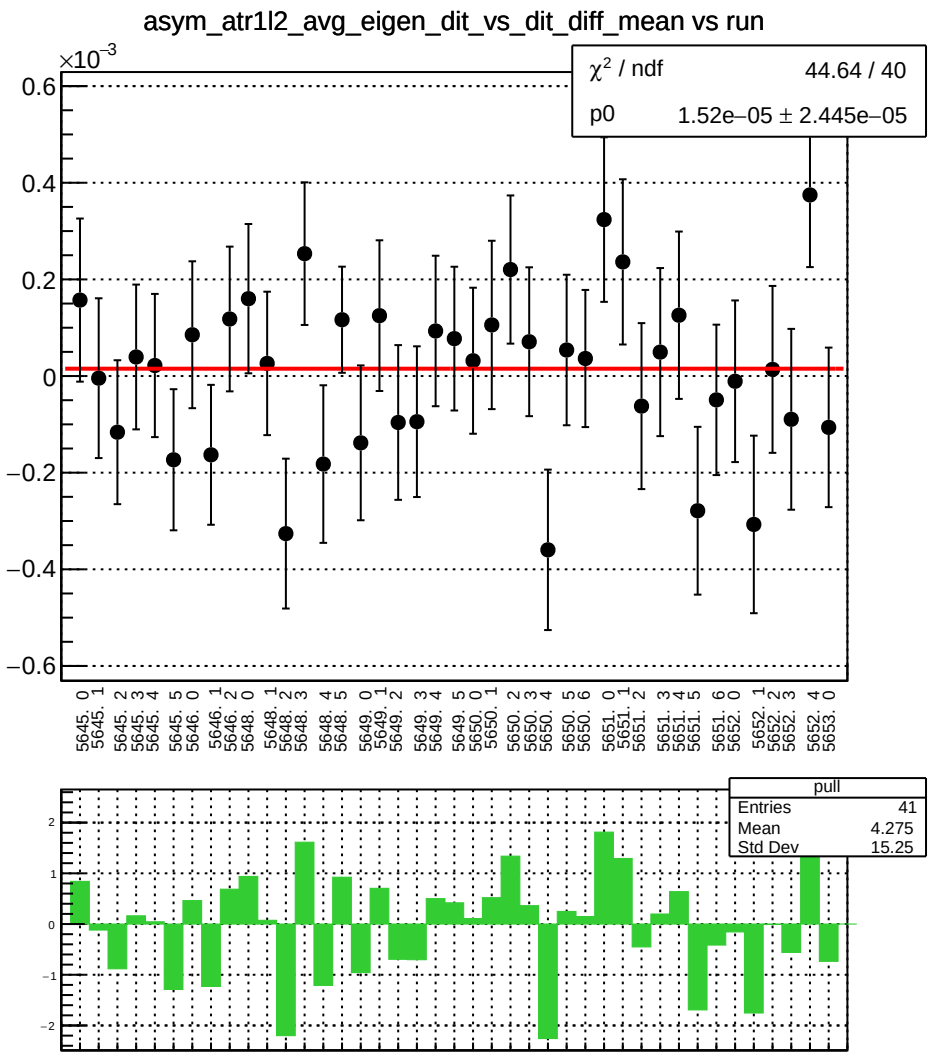

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.518e+05 / 40
p0 2.222e−10 ± 3.355e−13
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

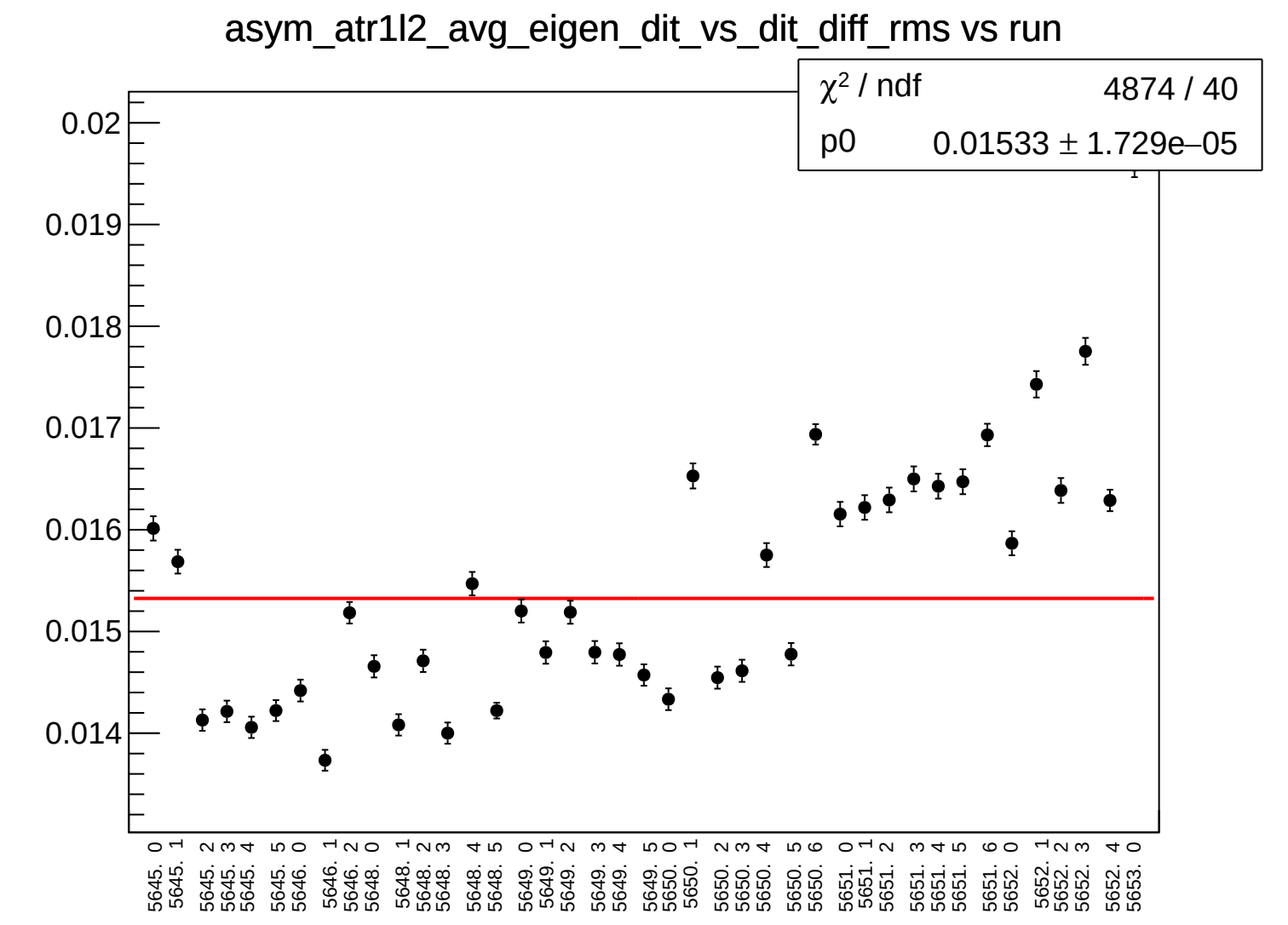

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33 / 40
p0 0.006282 ± 0.2032
pull
Entries 41
Mean 12.87
Std Dev 0
pull1D
Entries 41
Mean −0.04386
Std Dev 0.8961

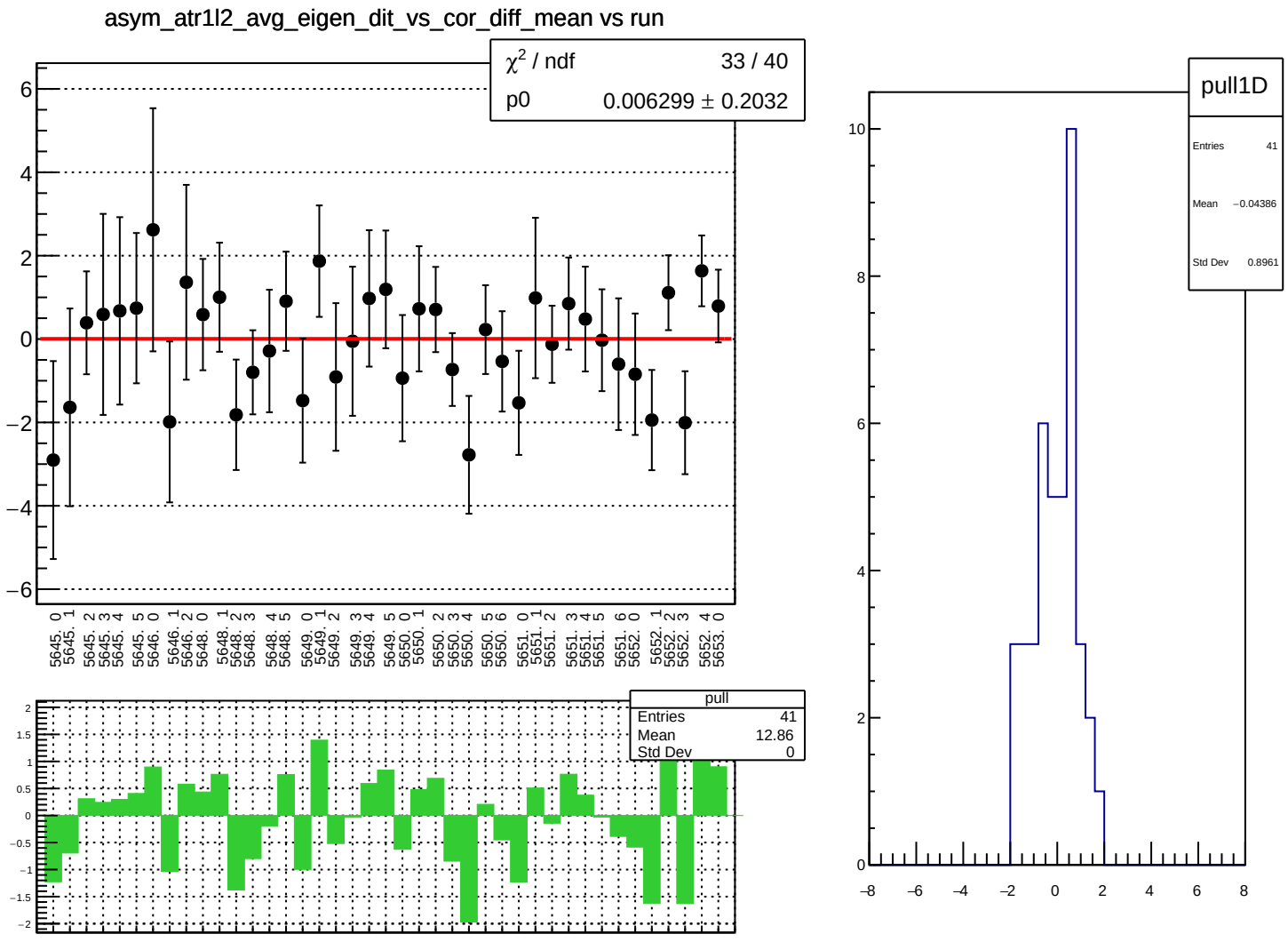

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.816e+04 / 40
p0 122.9 ± 0.1436
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

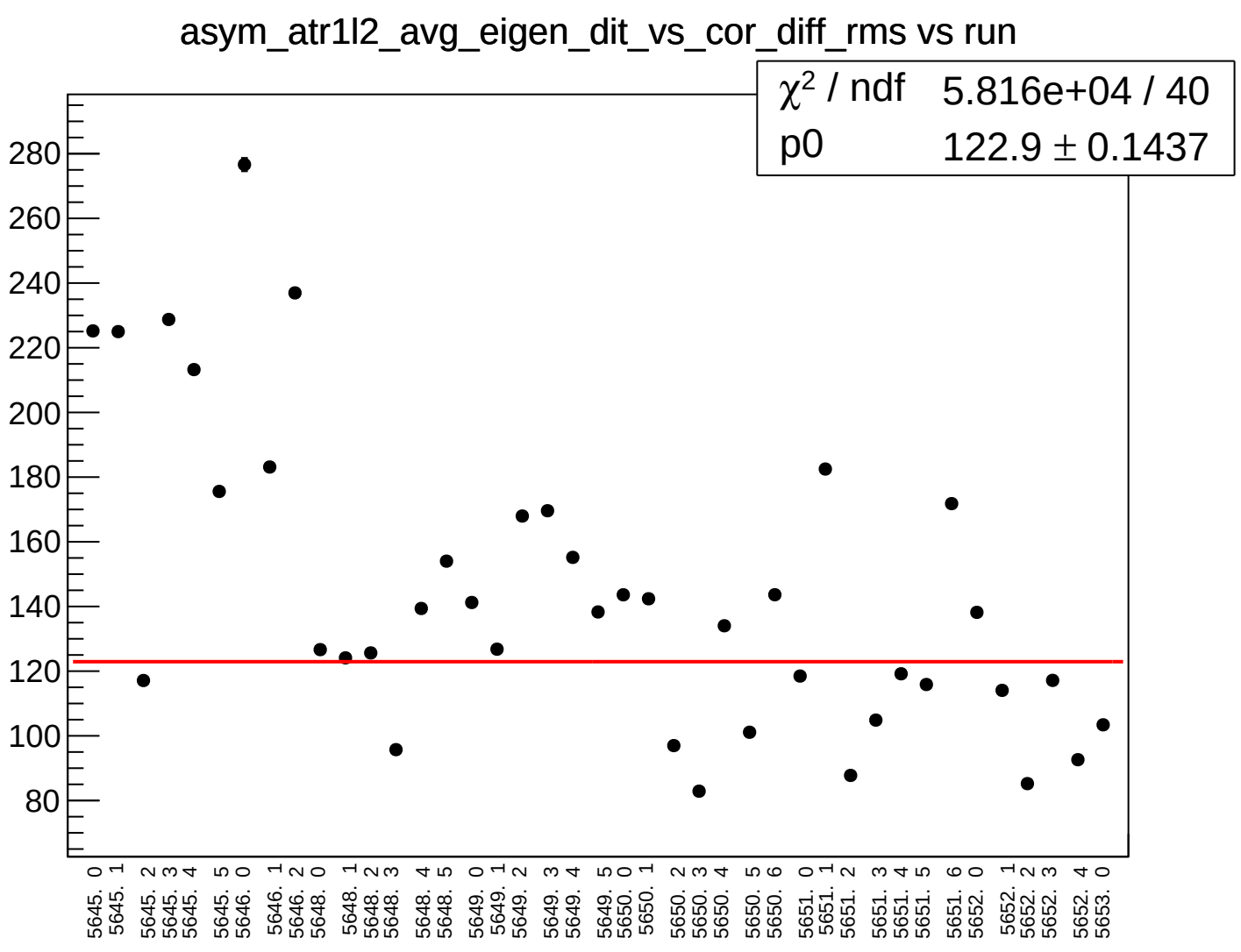

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33 / 40
p0 0.006282 ± 0.2032
pull
Entries 41
Mean 12.87
Std Dev 0
pull1D
Entries 41
Mean −0.04386
Std Dev 0.8961


asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.816e+04 / 40
p0 122.9 ± 0.1436
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

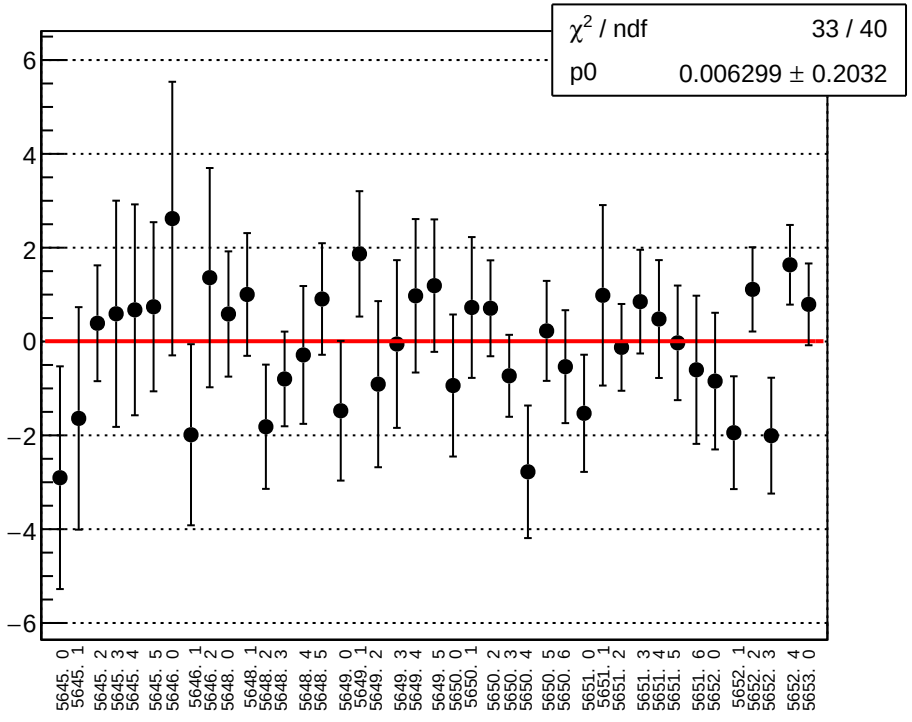

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.64 / 40
p0 1.52e−05 ± 2.445e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.275
Std Dev 15.25
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.0213
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

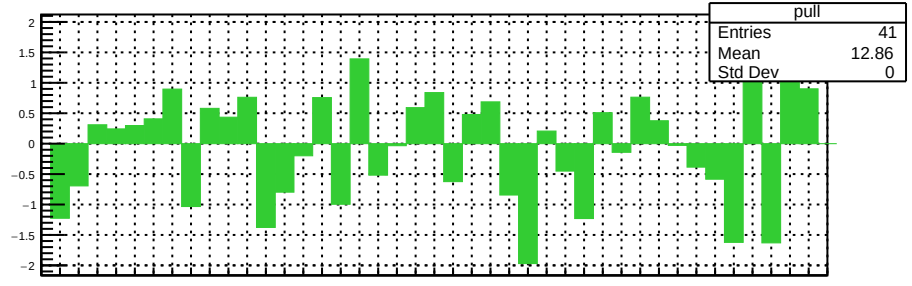

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4874 / 40
p0 0.01533 ± 1.729e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

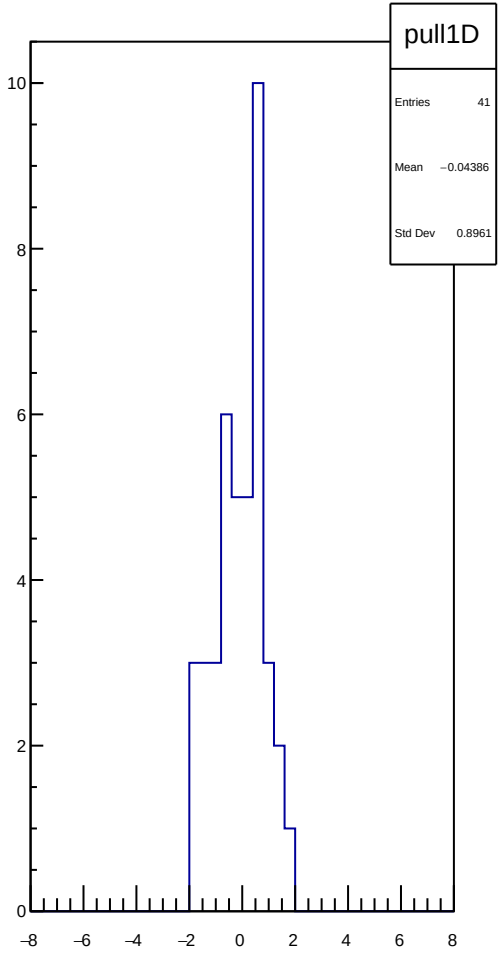

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33 / 40
p0 0.006299 ± 0.2032
pull
Entries 41
Mean 12.86
Std Dev 0
pull1D
Entries 41
Mean −0.04386
Std Dev 0.8961

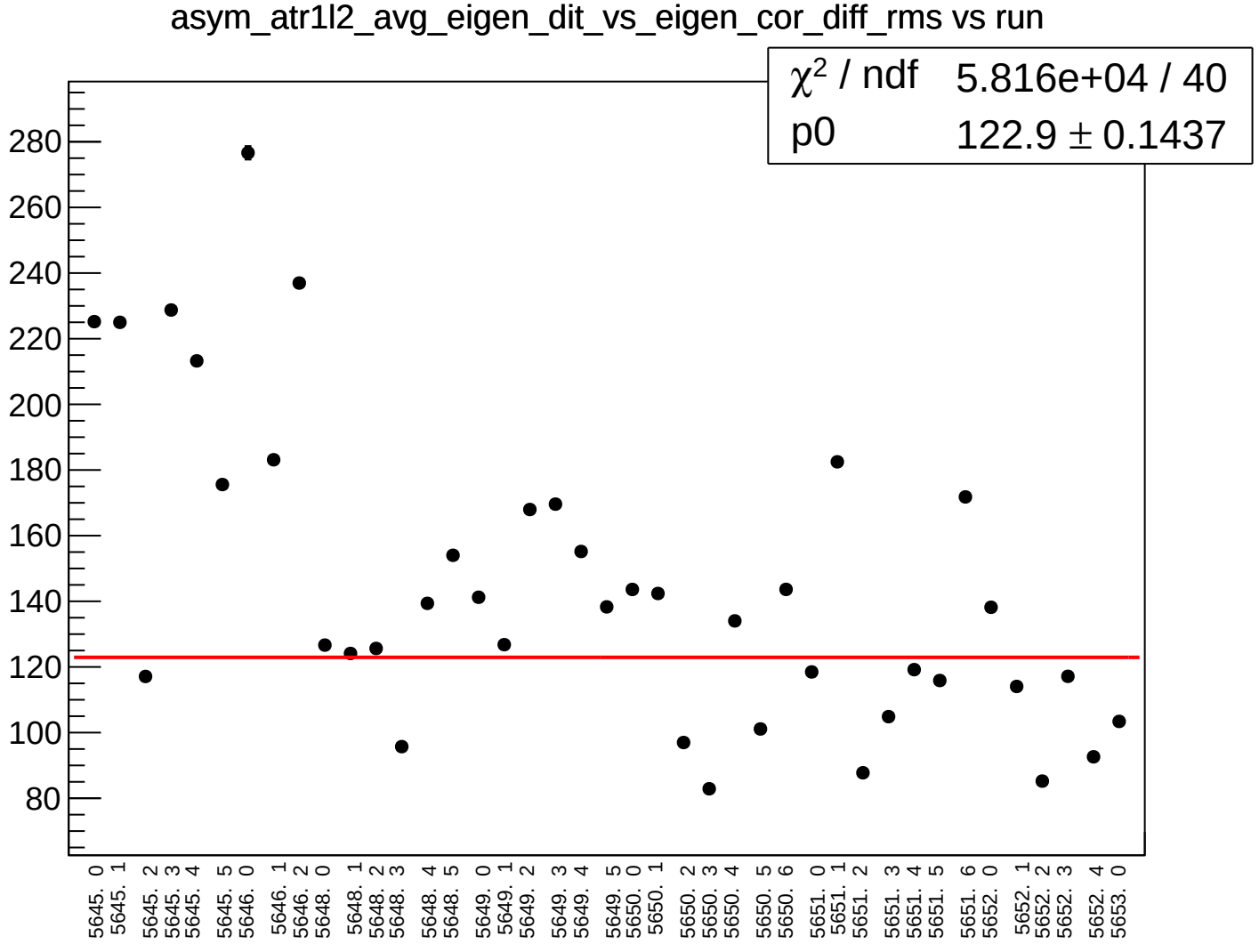

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.816e+04 / 40
p0 122.9 ± 0.1437
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

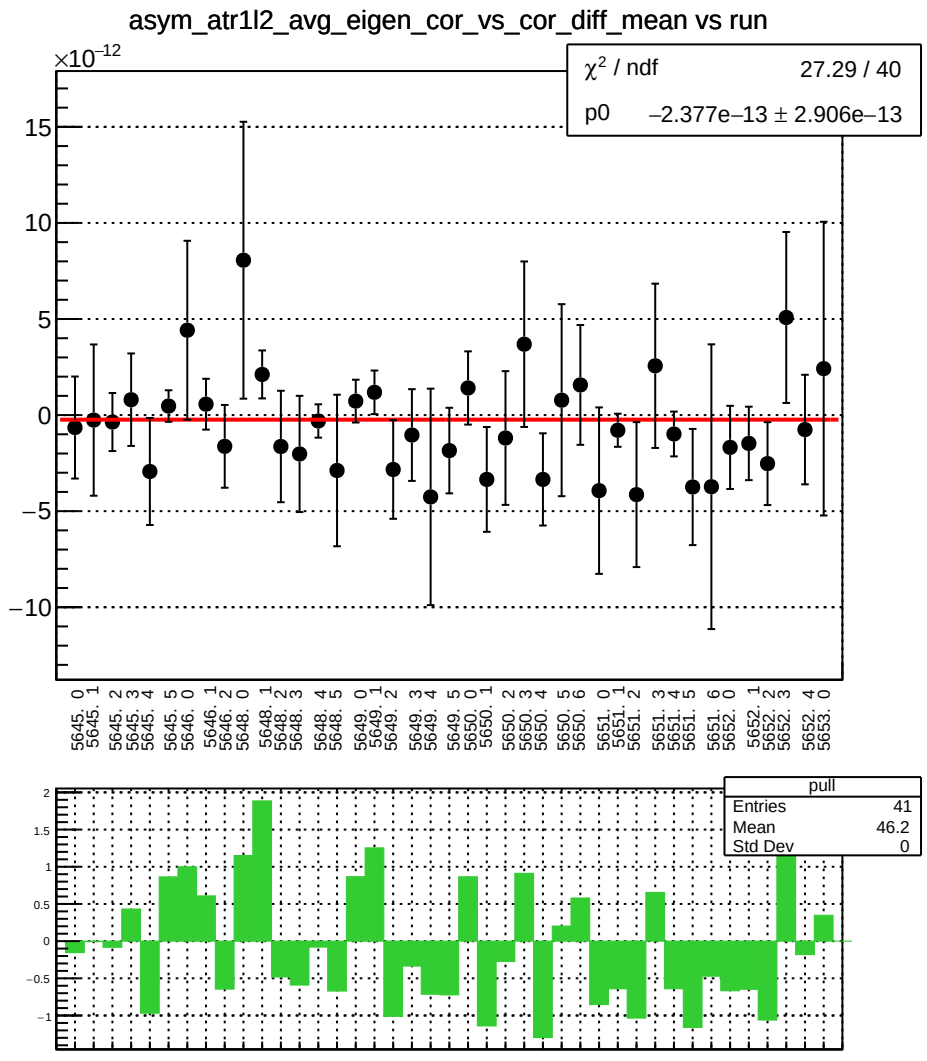
asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

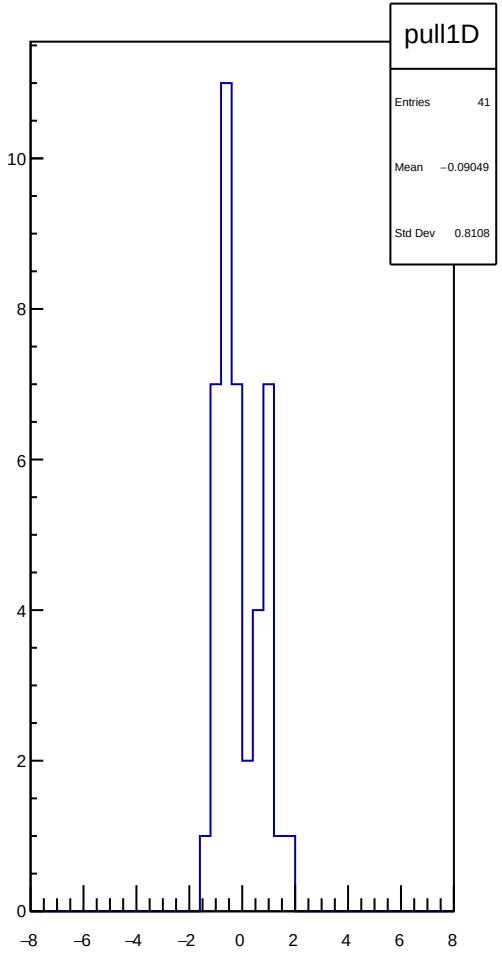


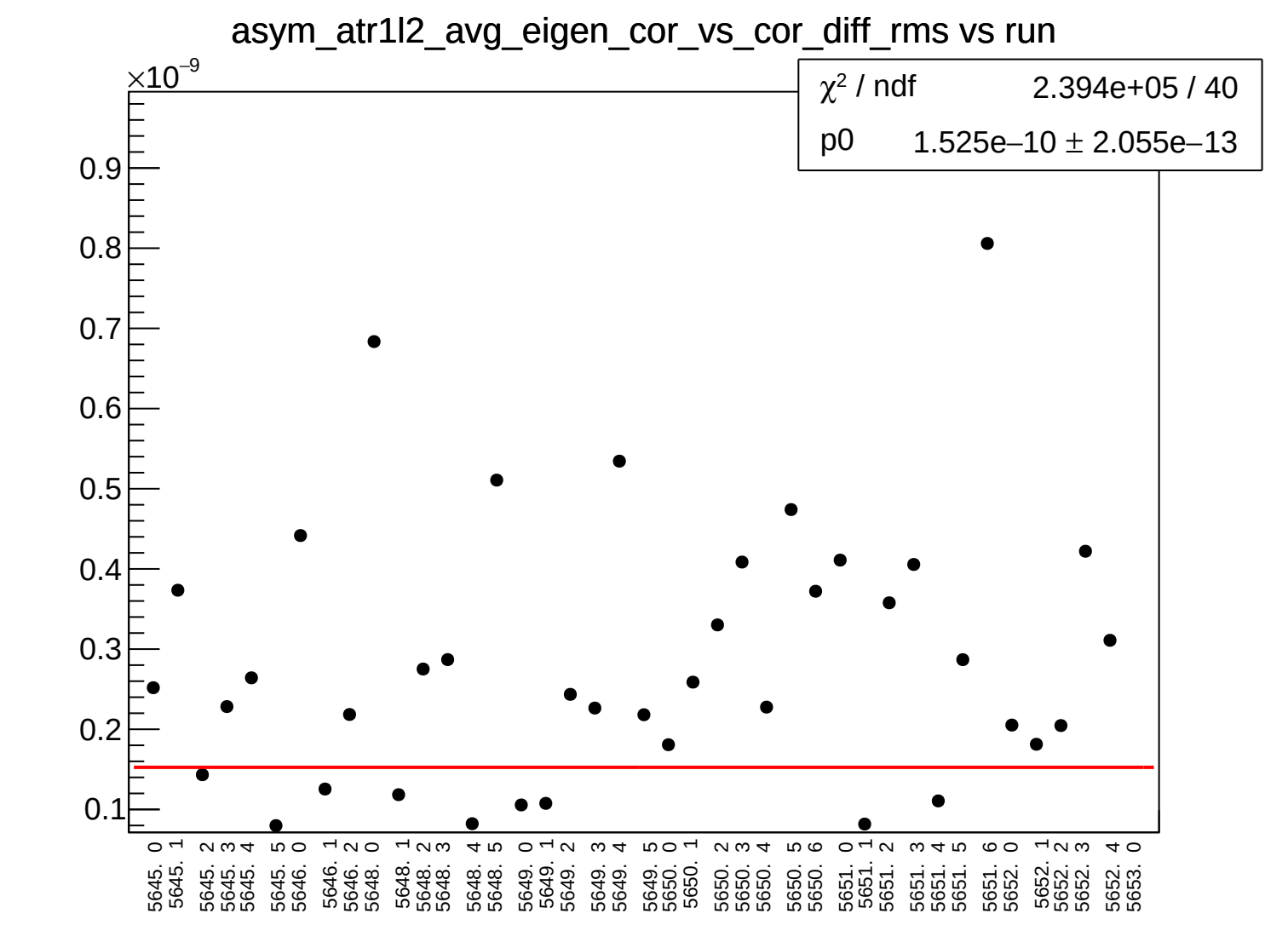


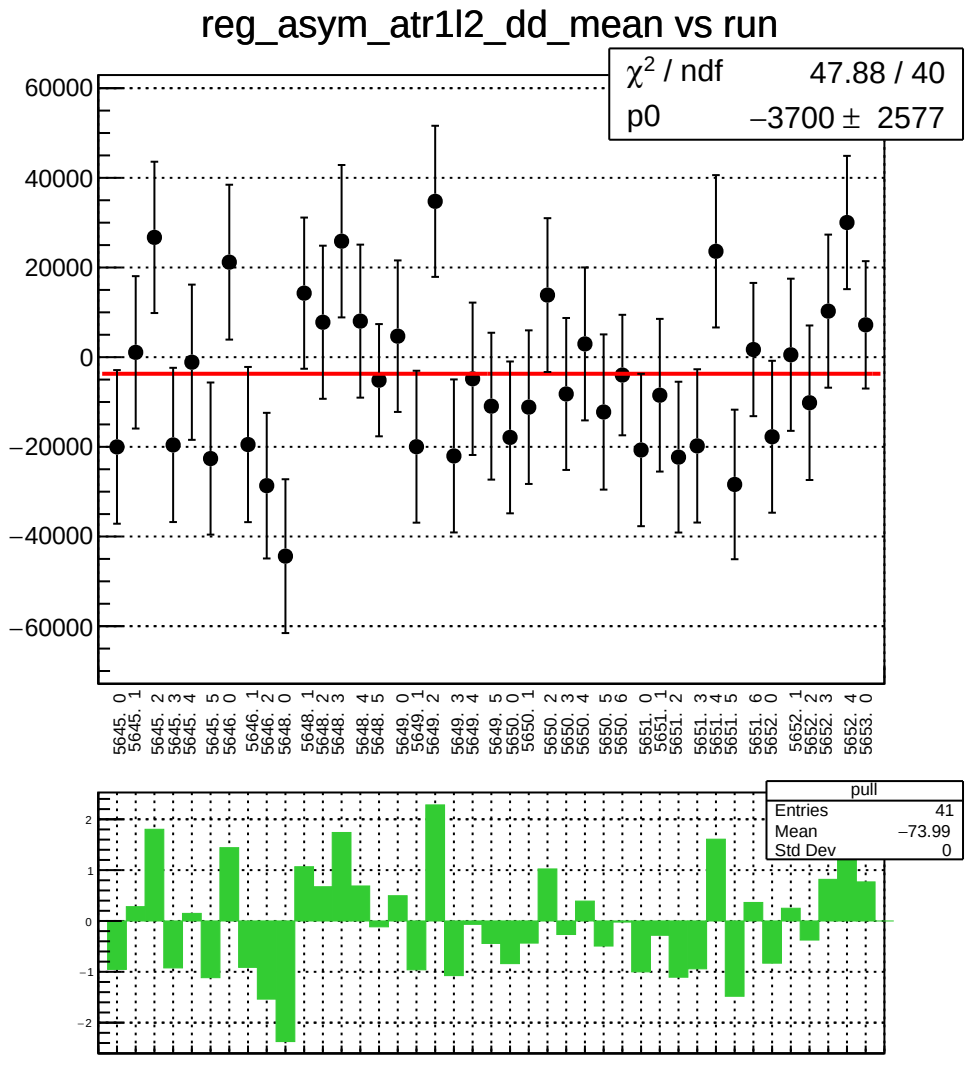


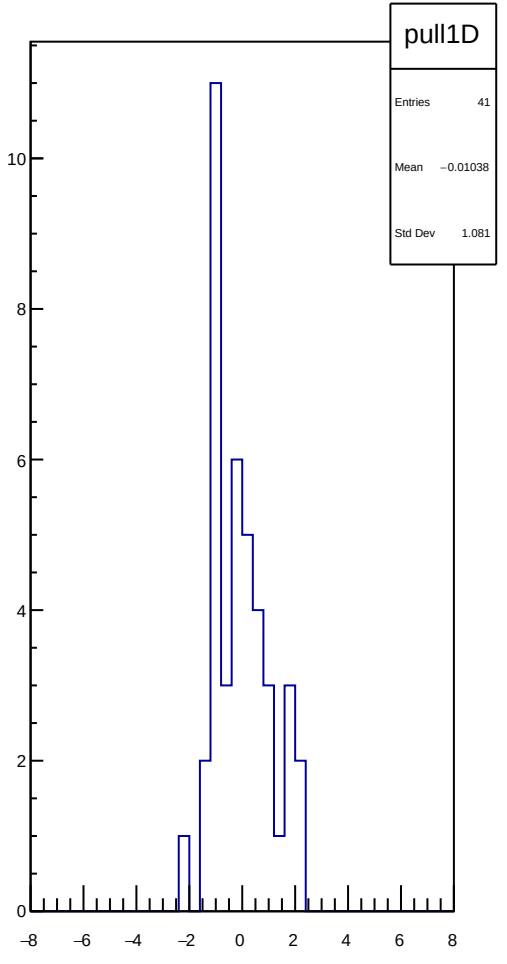

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.816e+04 / 40
p0 122.9 ± 0.1437
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

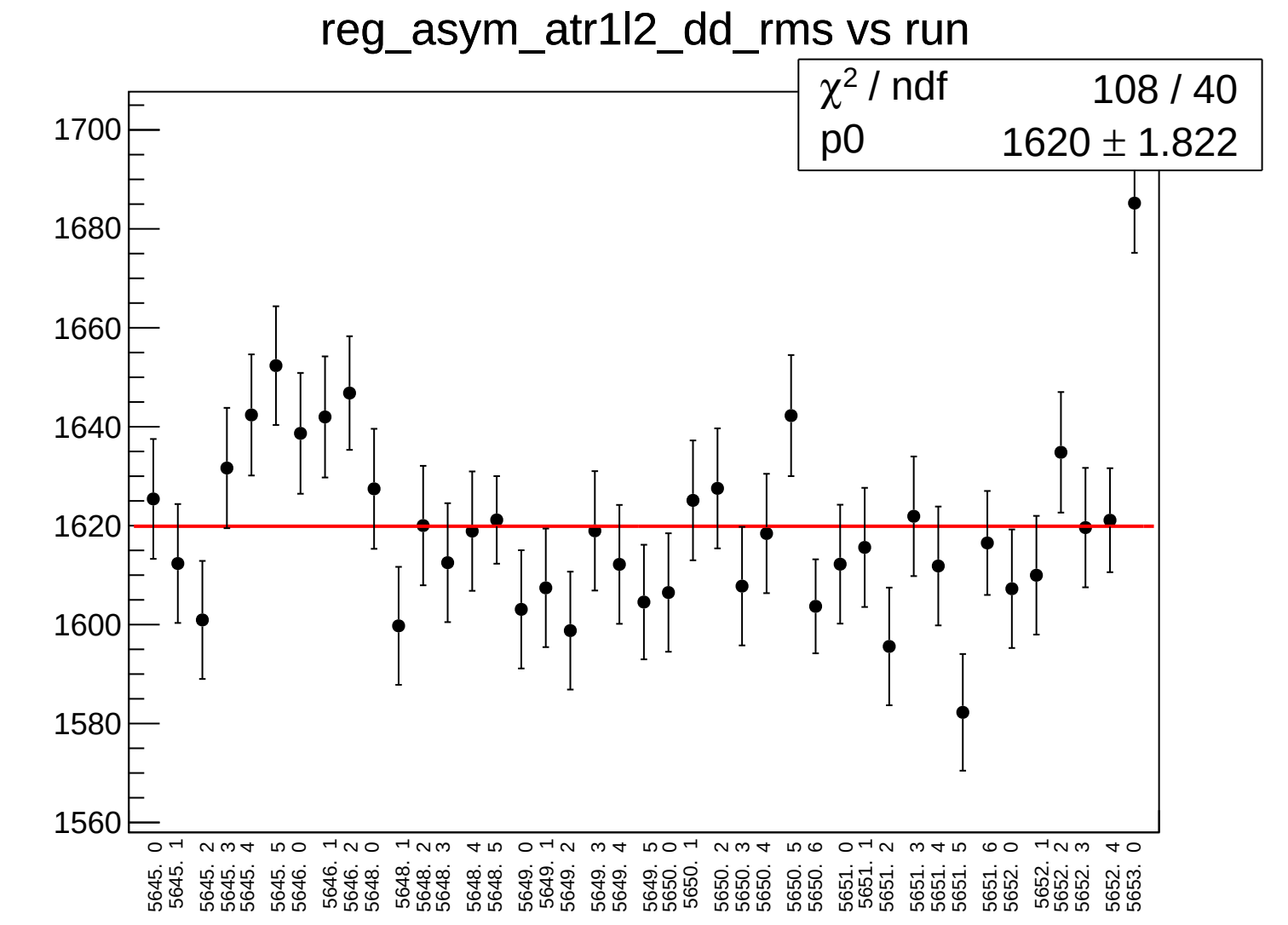

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.29 / 40
p0 −2.377e−13 ± 2.906e−13
15
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 46.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

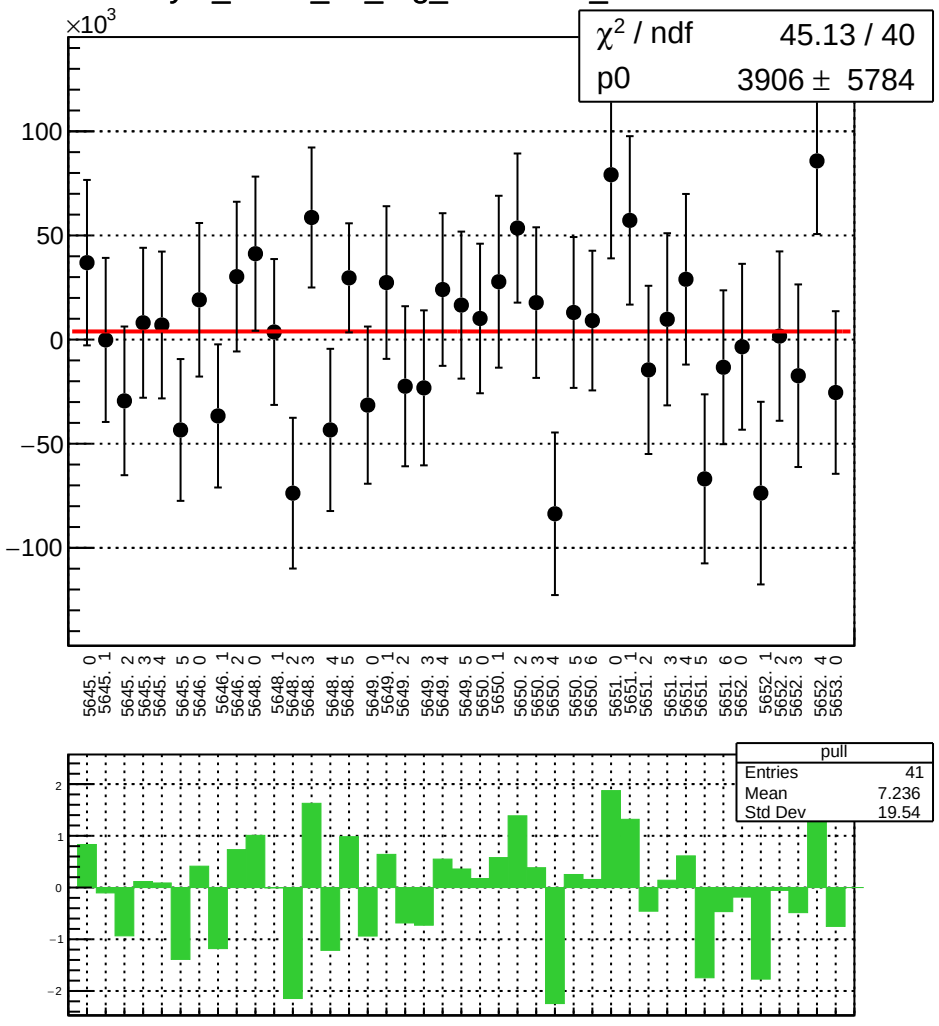

pull1D
Entries 41
Mean −0.09049
Std Dev 0.8108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

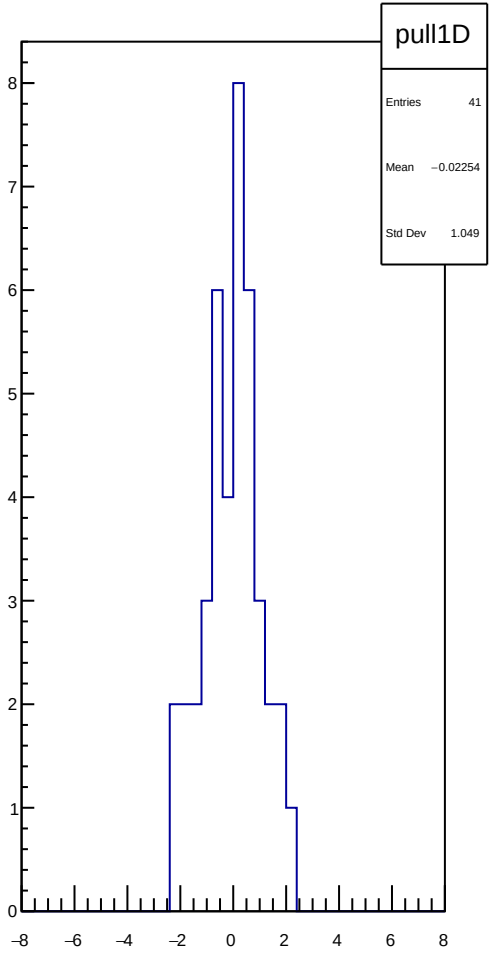

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.394e+05 / 40
p0 1.525e−10 ± 2.055e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

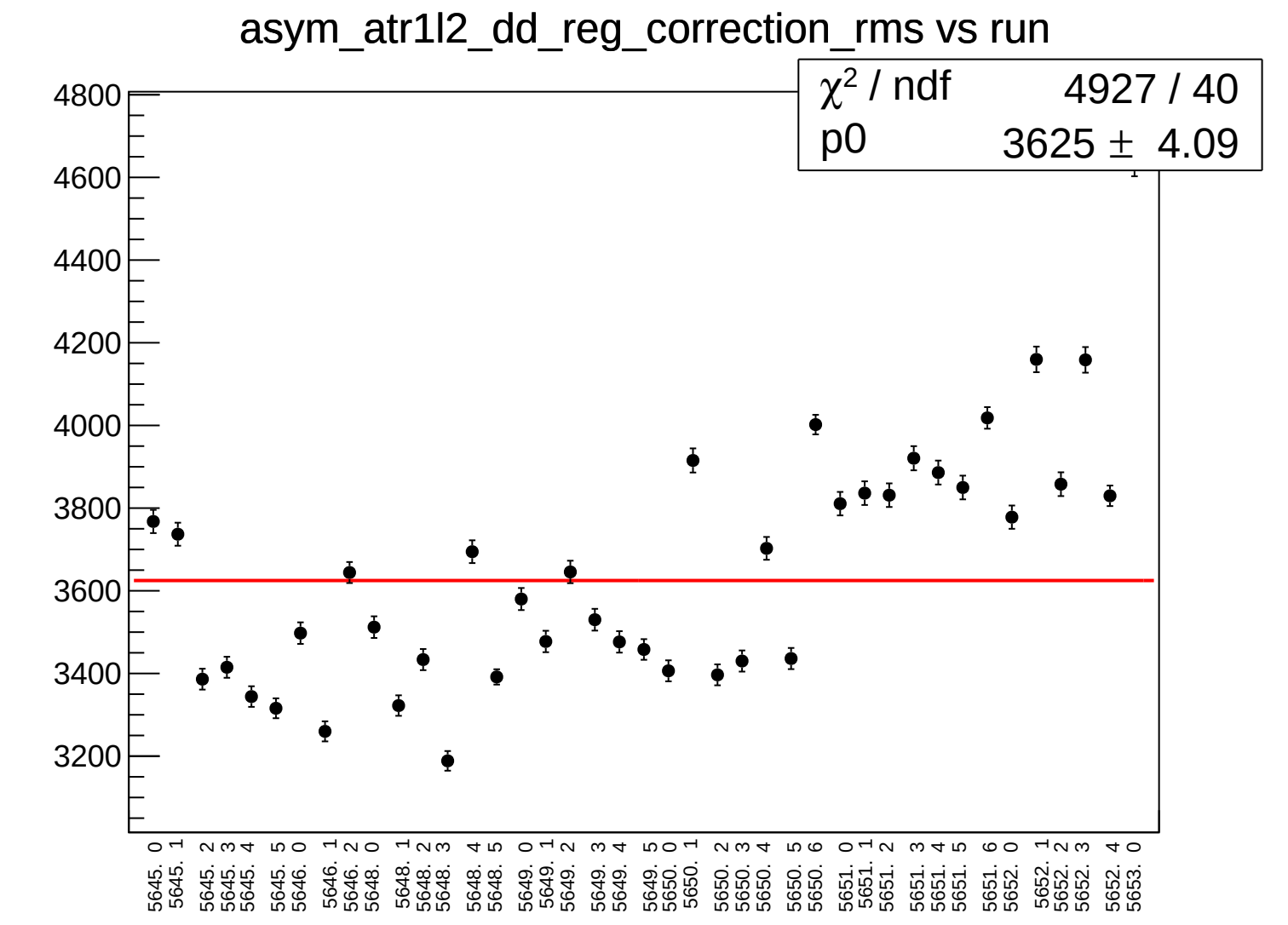

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 47.88 / 40
p0 −3700 ± 2577
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −73.99
Std Dev 0
2
1
0
−1
−2

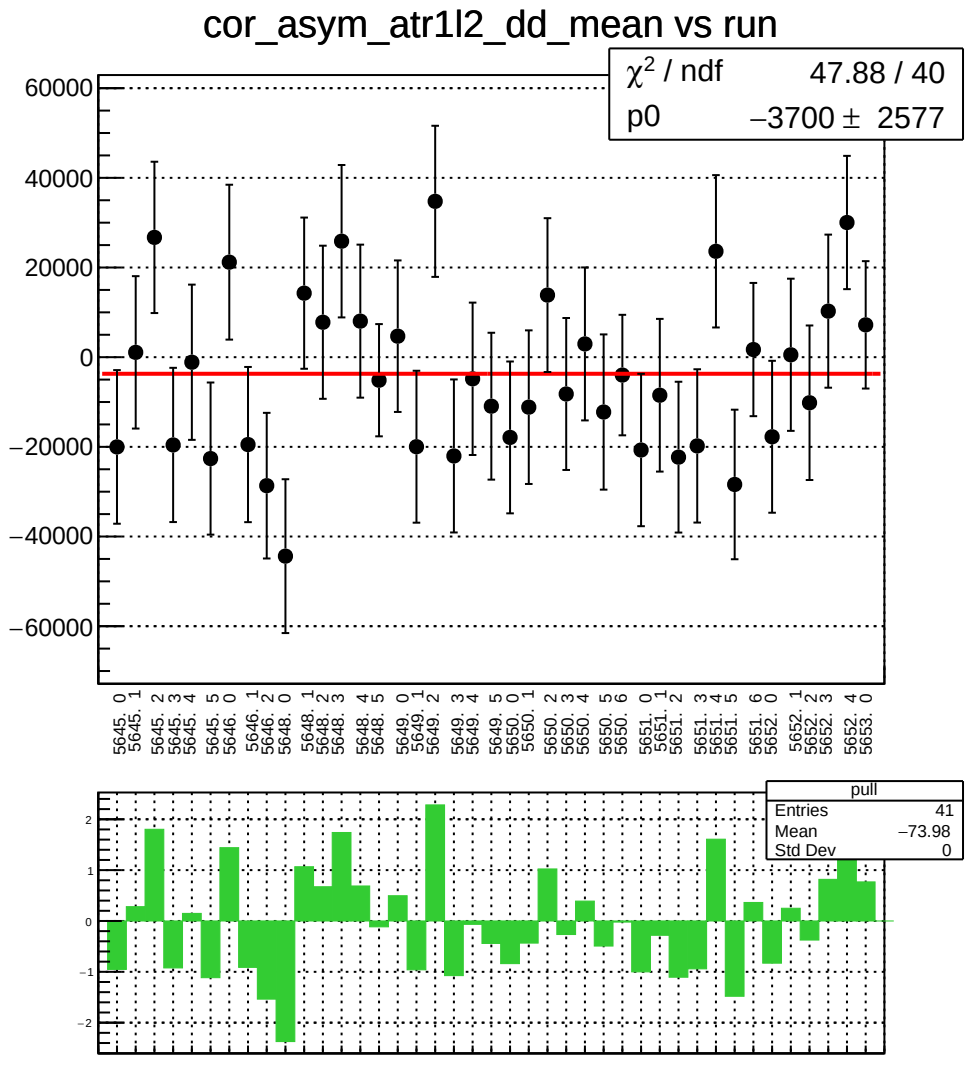

pull1D
Entries 41
Mean −0.01038
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

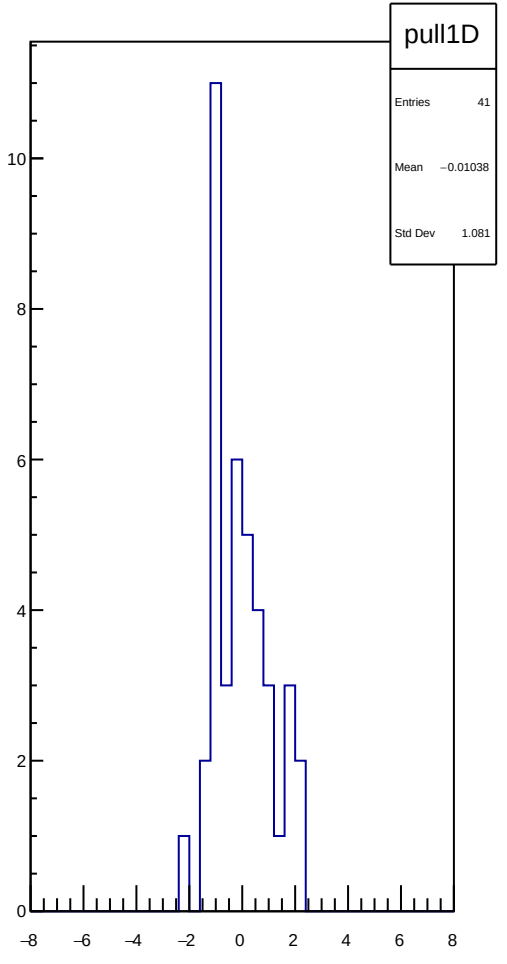

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 108 / 40
p0 1620 ± 1.822
1700
1680
1660
1640
1620
1600
1580
1560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

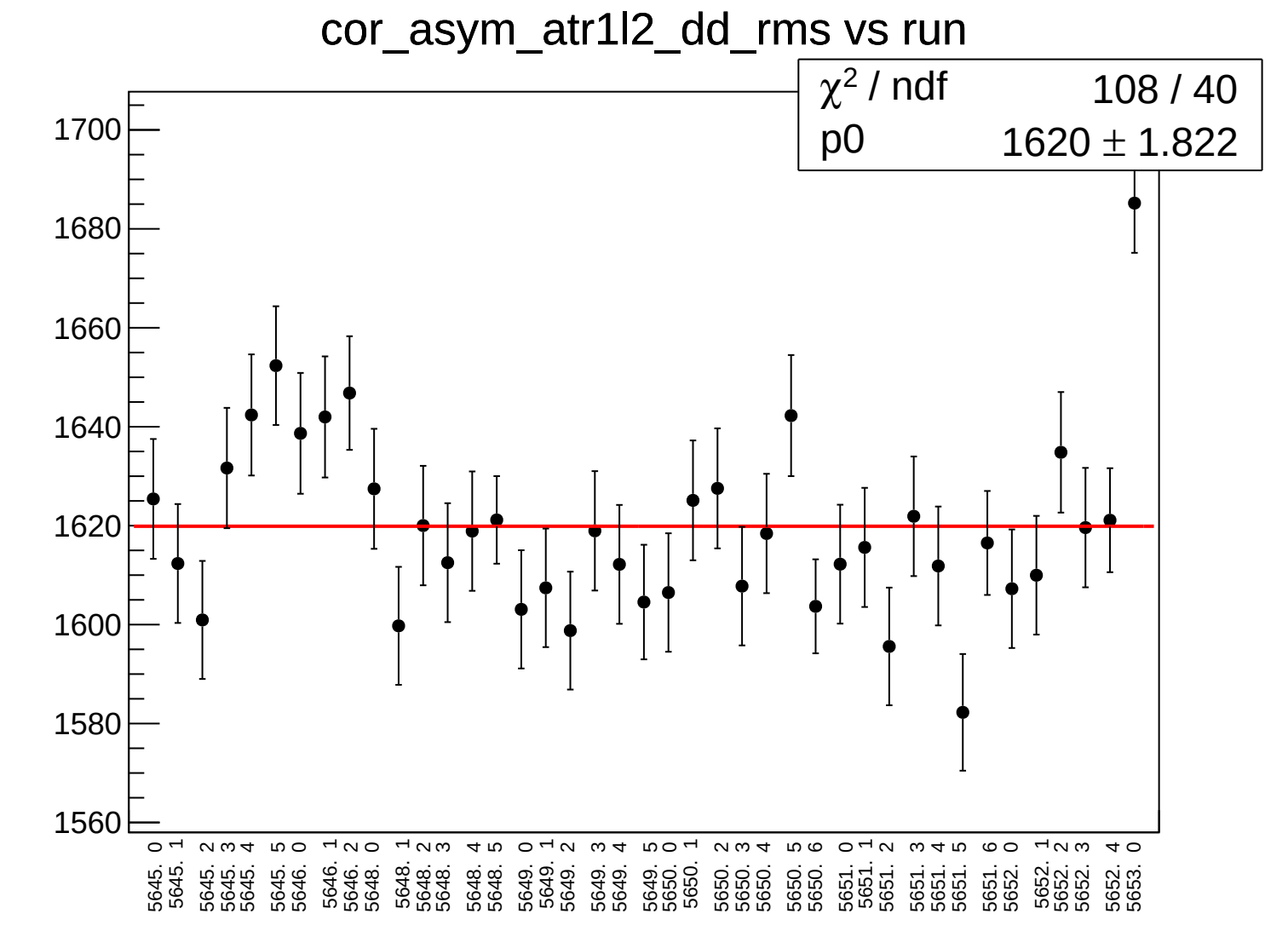

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 45.13 / 40
p0 3906 ± 5784
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 7.236
Std Dev 19.54
2
1
0
−1
−2

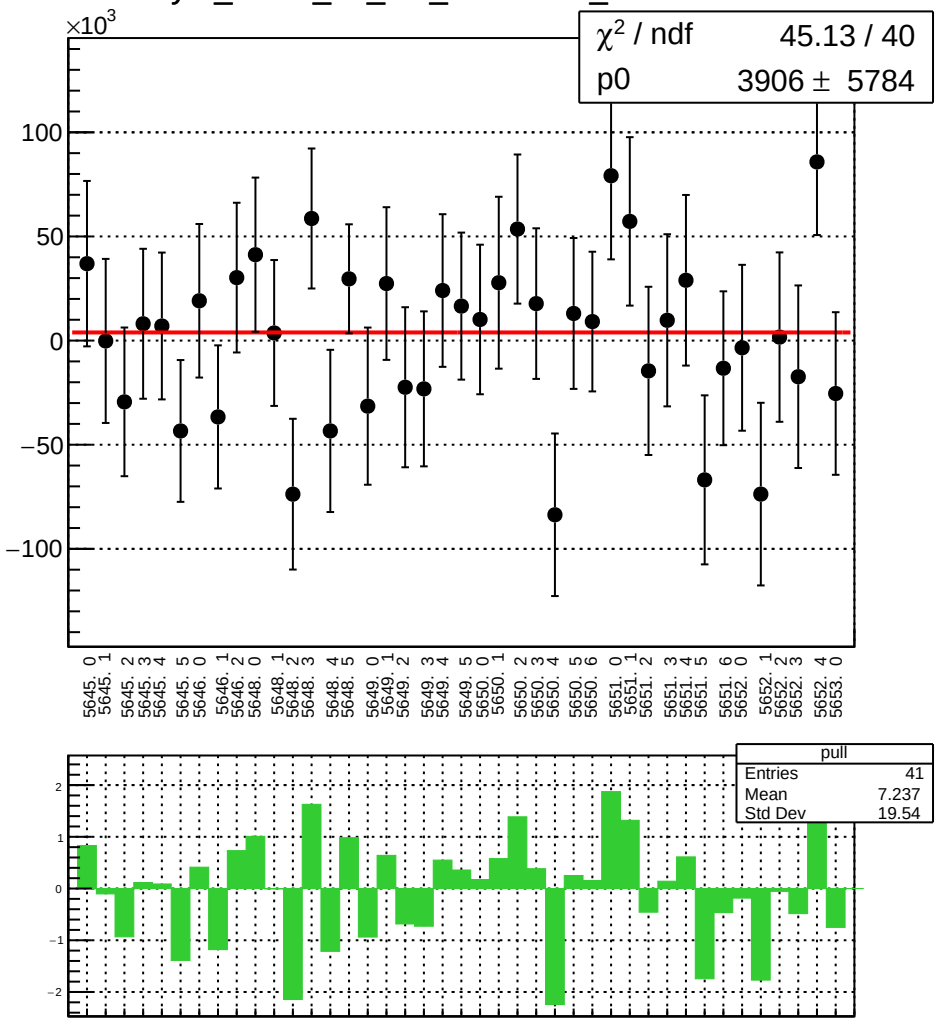

pull1D
Entries 41
Mean −0.02254
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

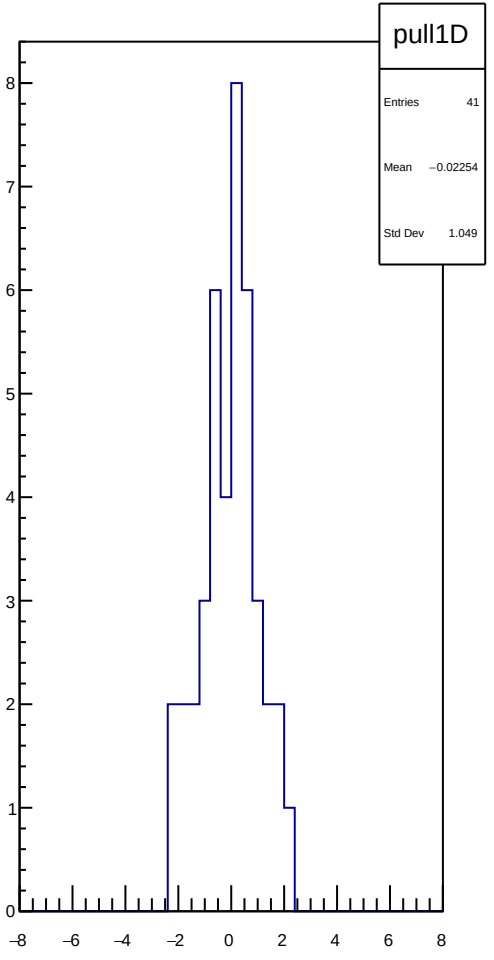

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 4927 / 40
p0 3625 ± 4.09
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

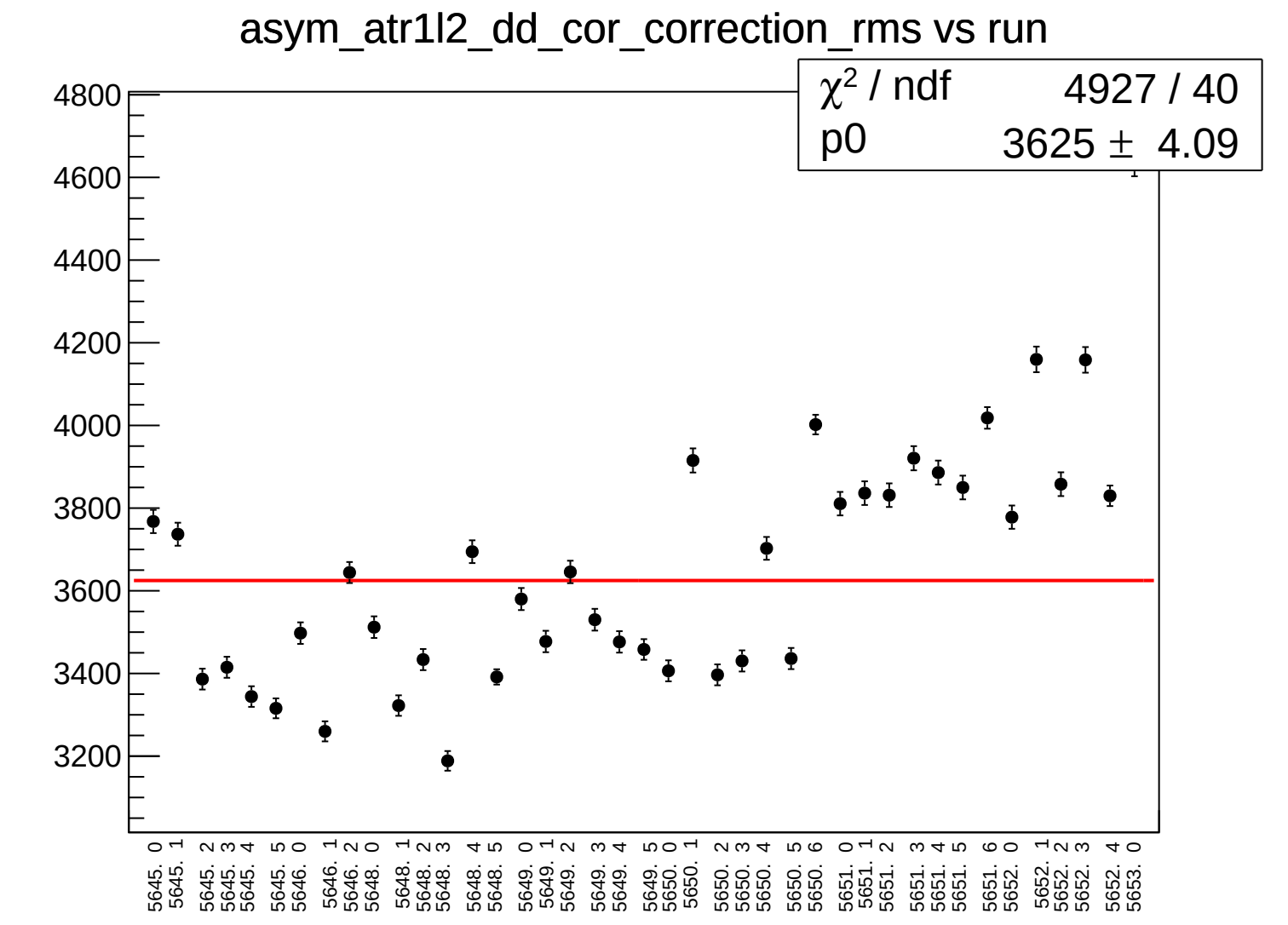

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 47.88 / 40
p0 −3700 ± 2577
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −73.98
Std Dev 0
2
1
0
−1
−2

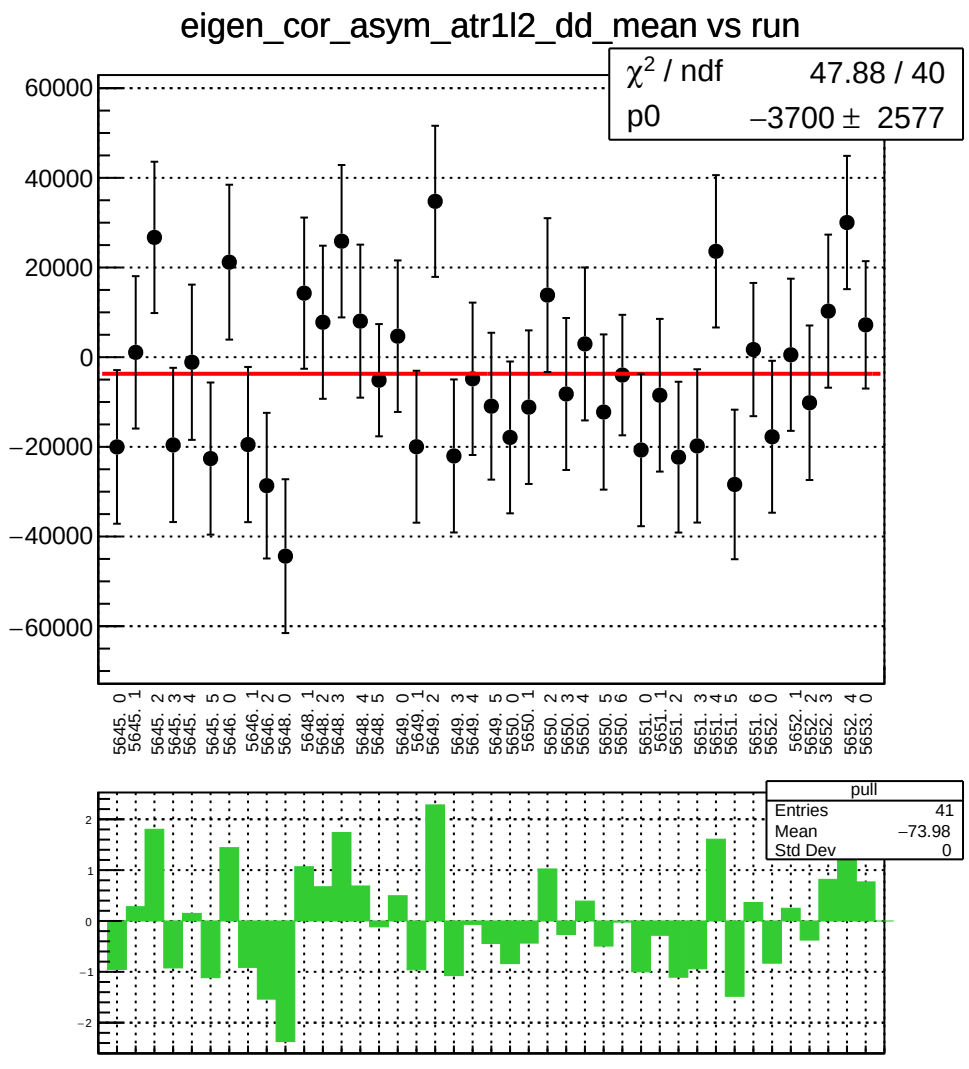

pull1D
Entries 41
Mean −0.01038
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

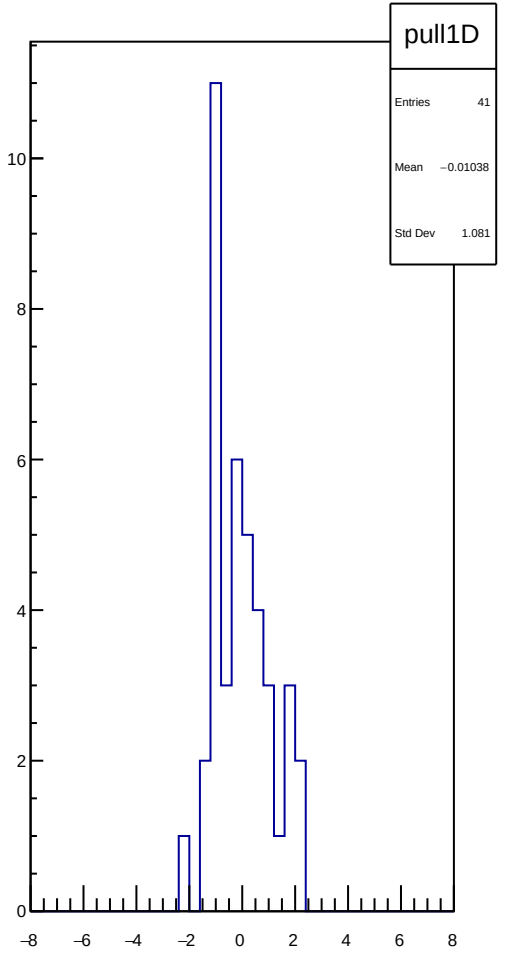

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 108 / 40
p0 1620 ± 1.822
1700
1680
1660
1640
1620
1600
1580
1560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

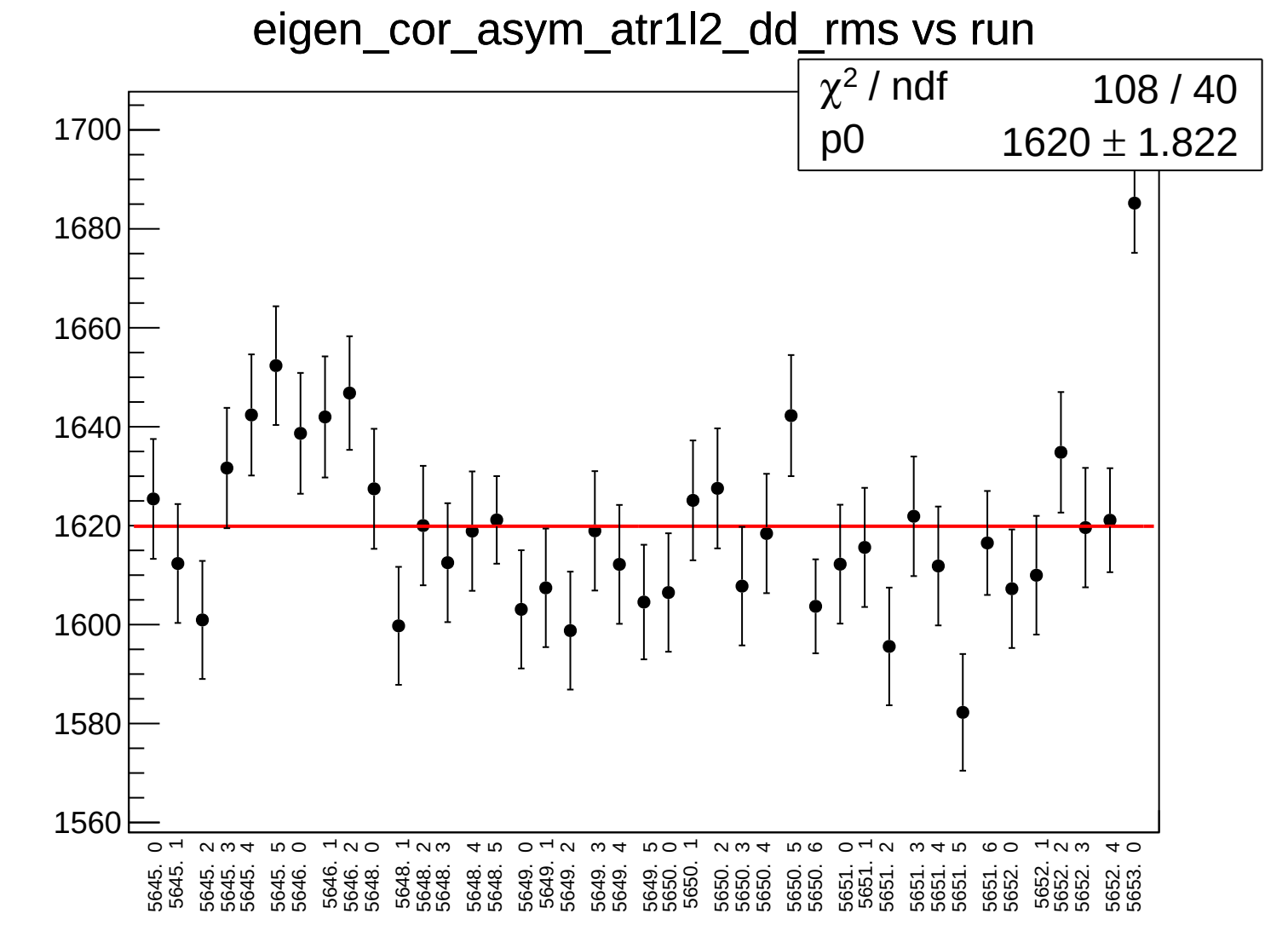

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 45.13 / 40
p0 3906 ± 5784
×10³
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 7.237
Std Dev 19.54
2
1
0
−1
−2

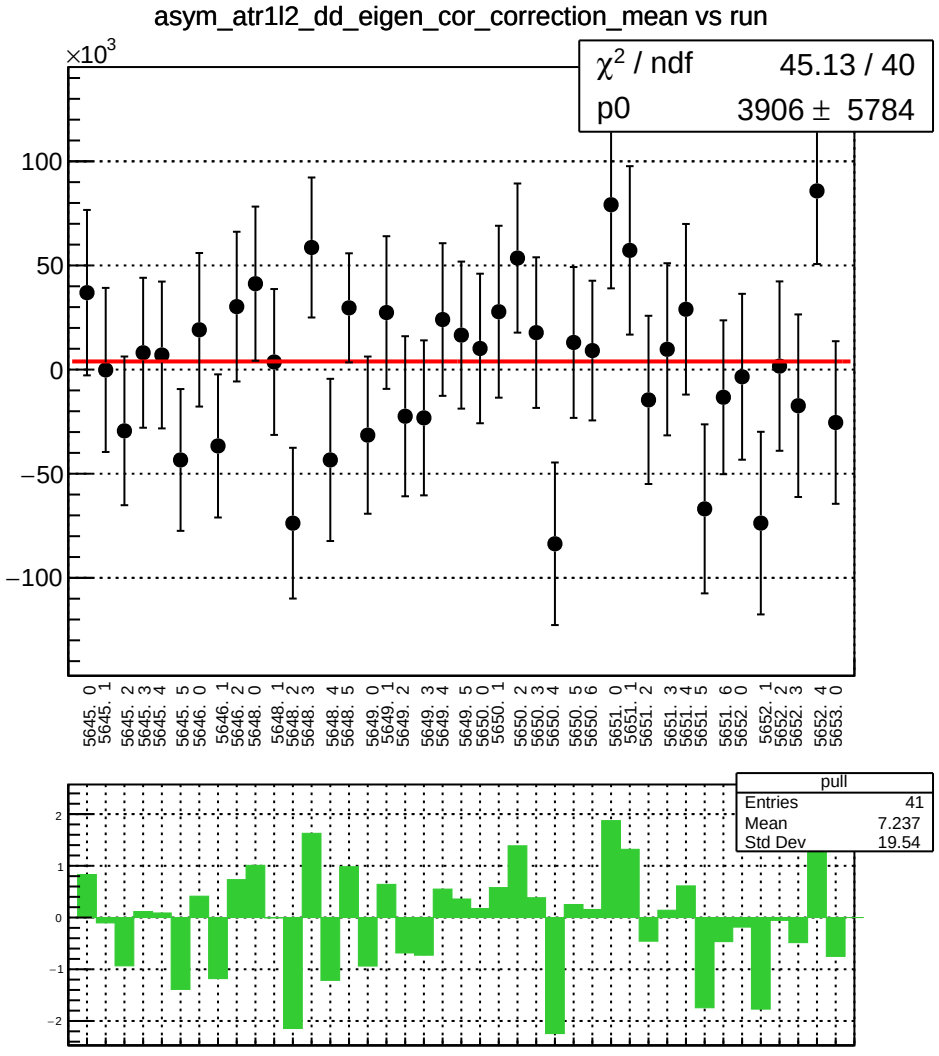

pull1D
Entries 41
Mean −0.02254
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

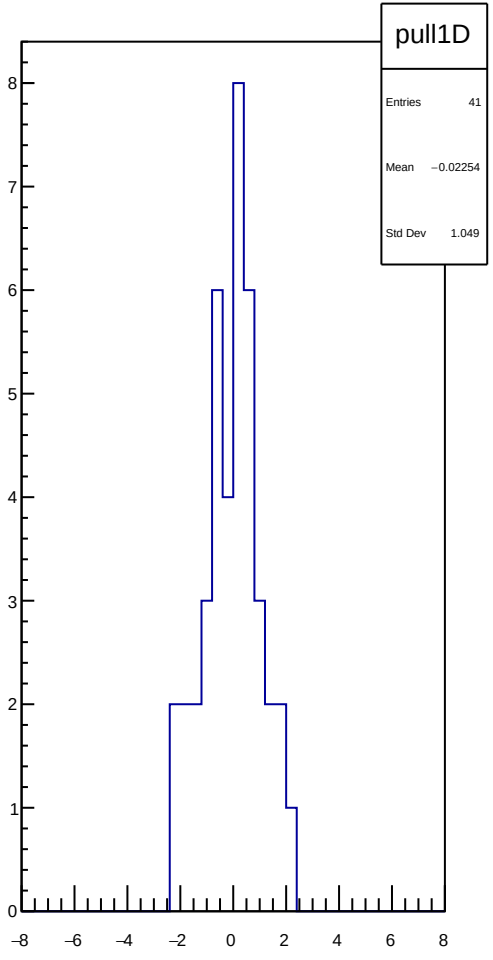

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 4927 / 40
p0 3625 ± 4.09
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

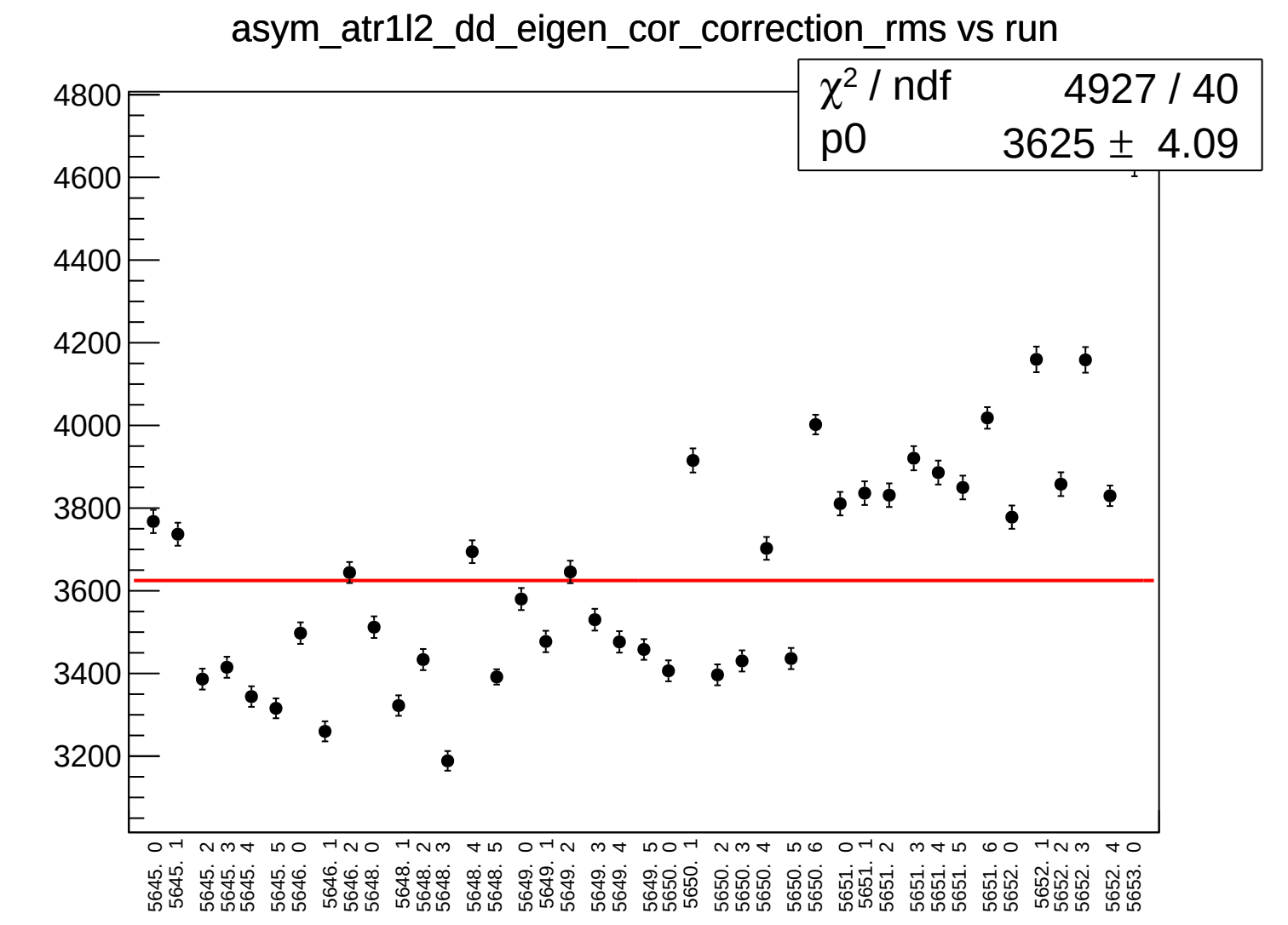

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 47.88 / 40
p0 −3700 ± 2577
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −73.98
Std Dev 0
2
1
0
−1
−2

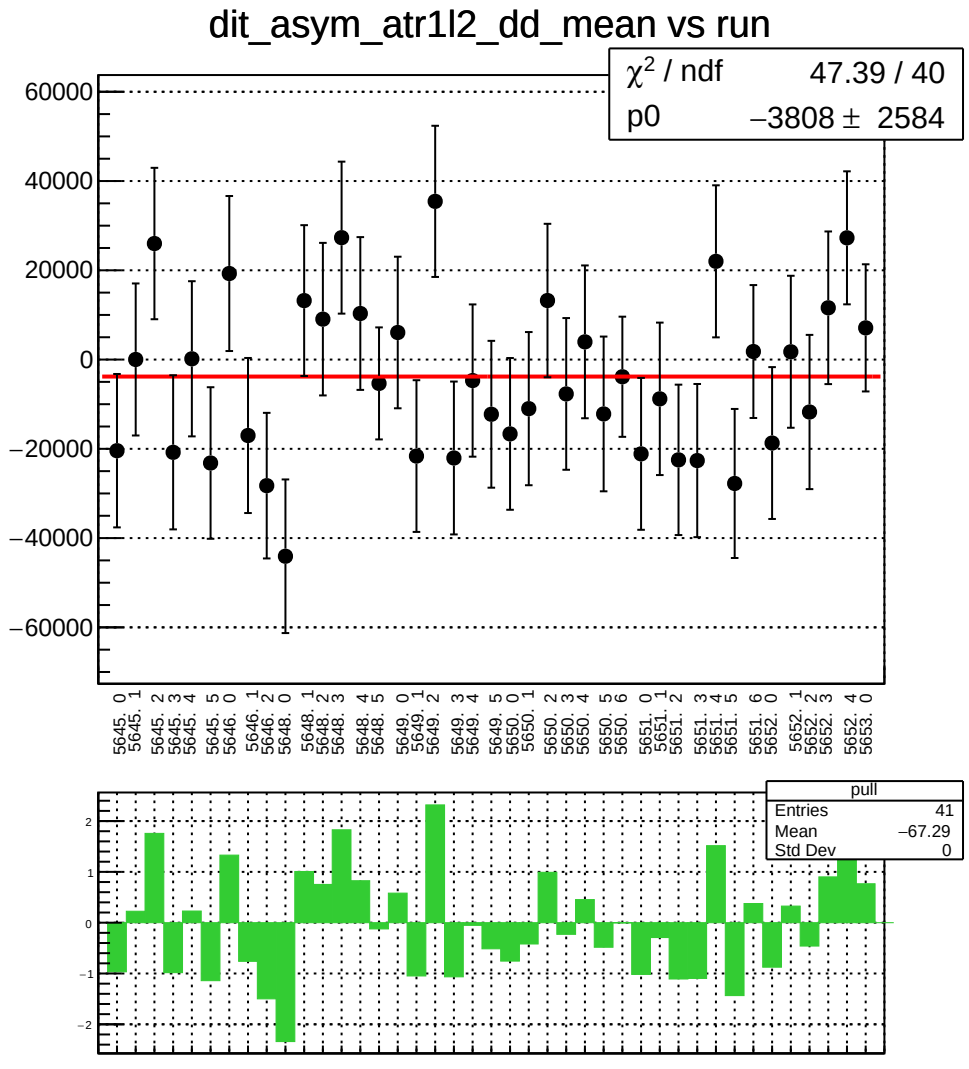

pull1D
Entries 41
Mean −0.01038
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

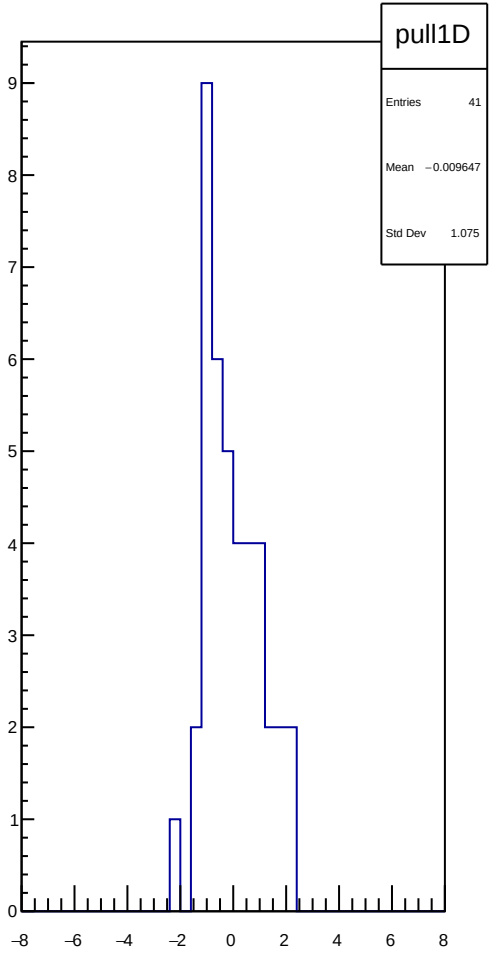

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 108 / 40
p0 1620 ± 1.822
1700
1680
1660
1640
1620
1600
1580
1560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

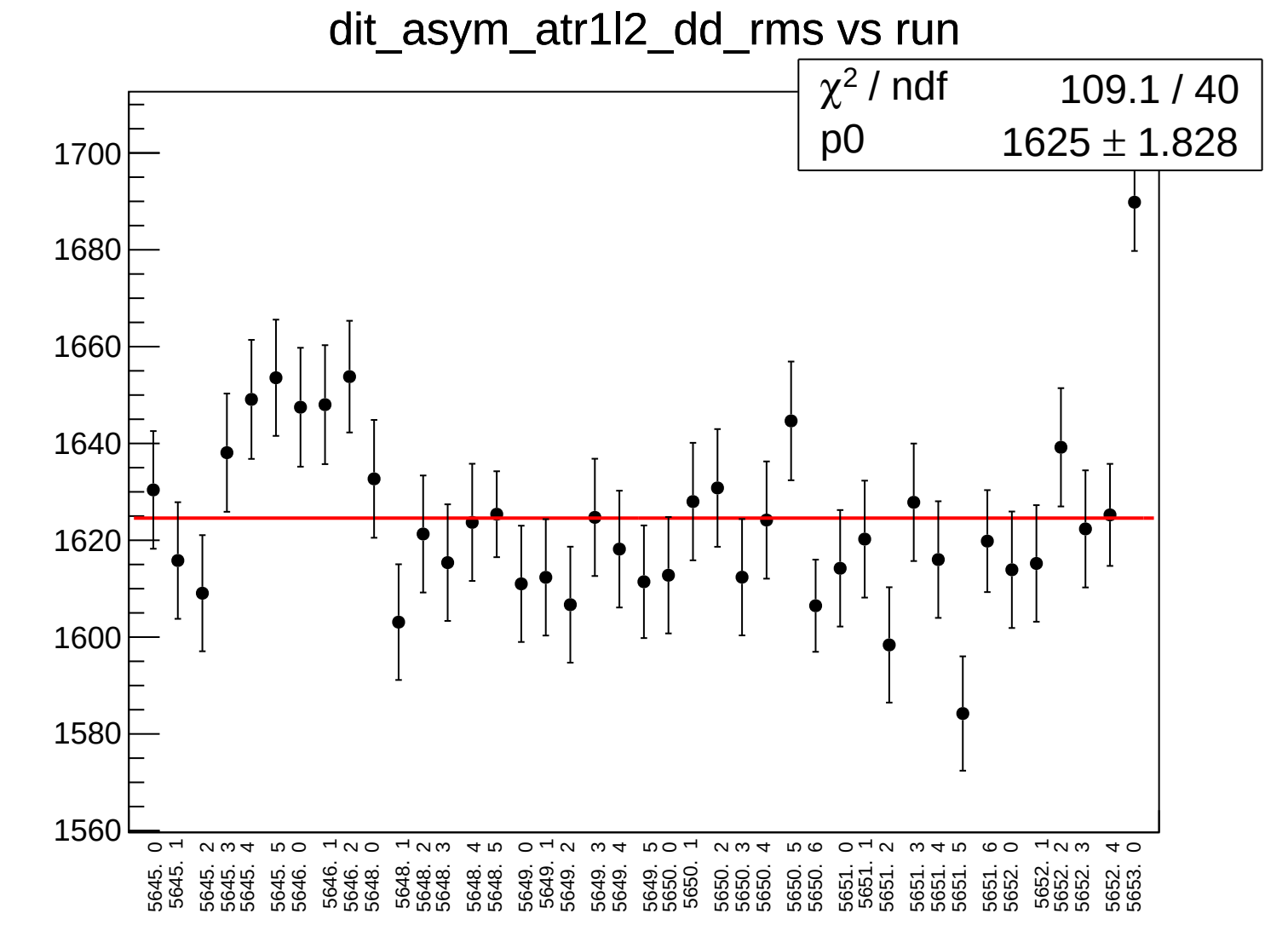

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 45.13 / 40
p0 3906 ± 5784
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 7.237
Std Dev 19.54
2
1
0
−1
−2

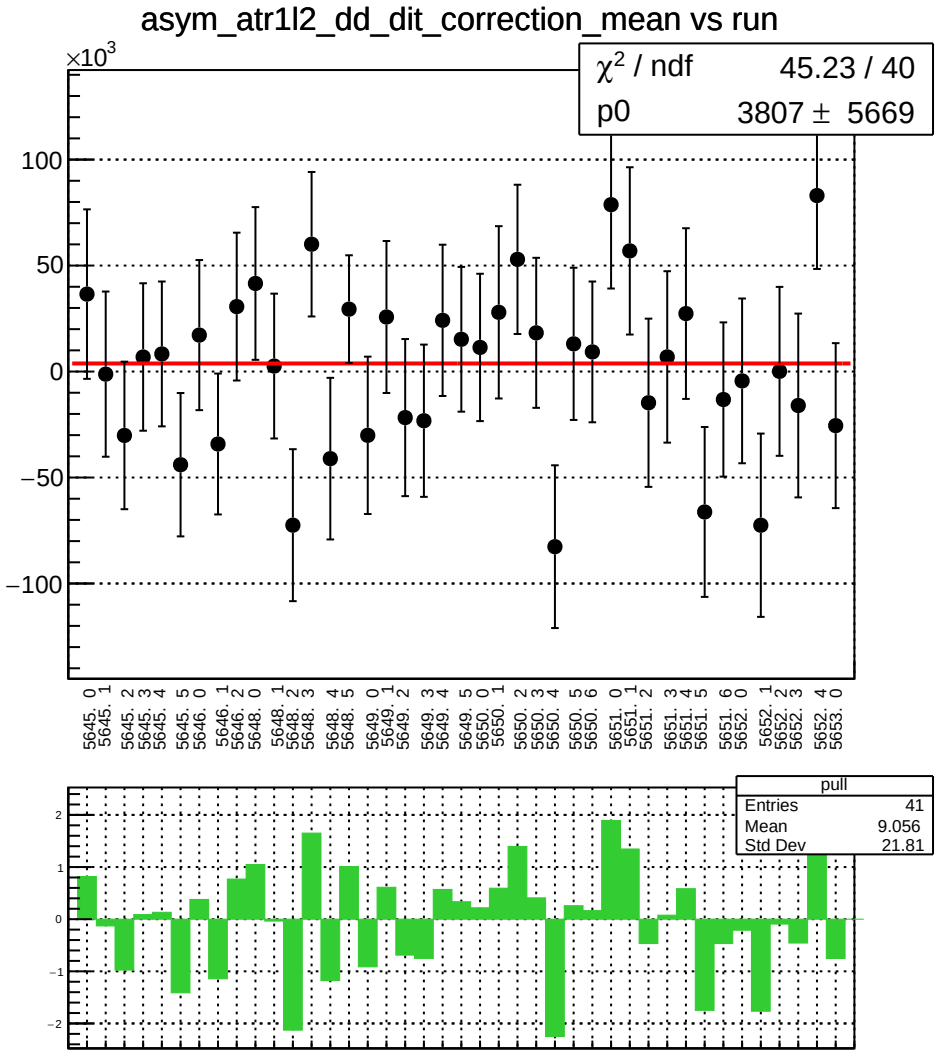

pull1D
Entries 41
Mean −0.02254
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

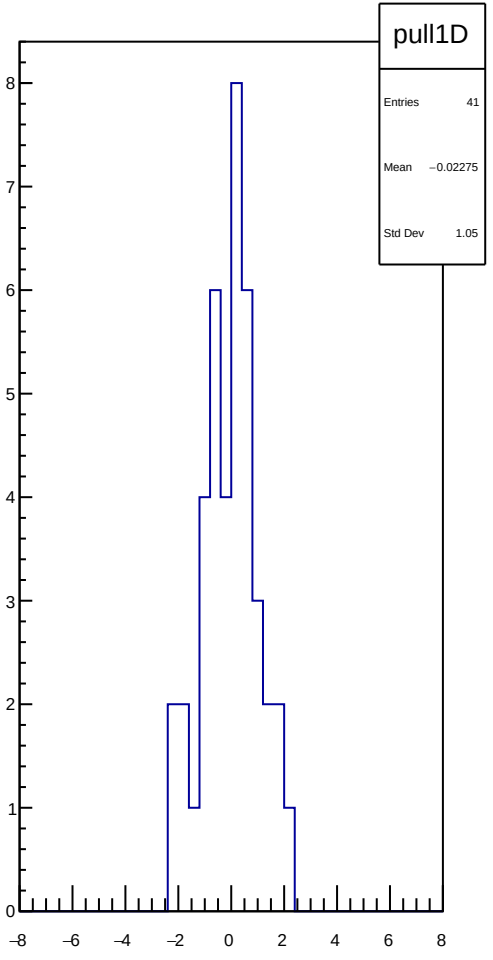

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4927 / 40
p0 3625 ± 4.09
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

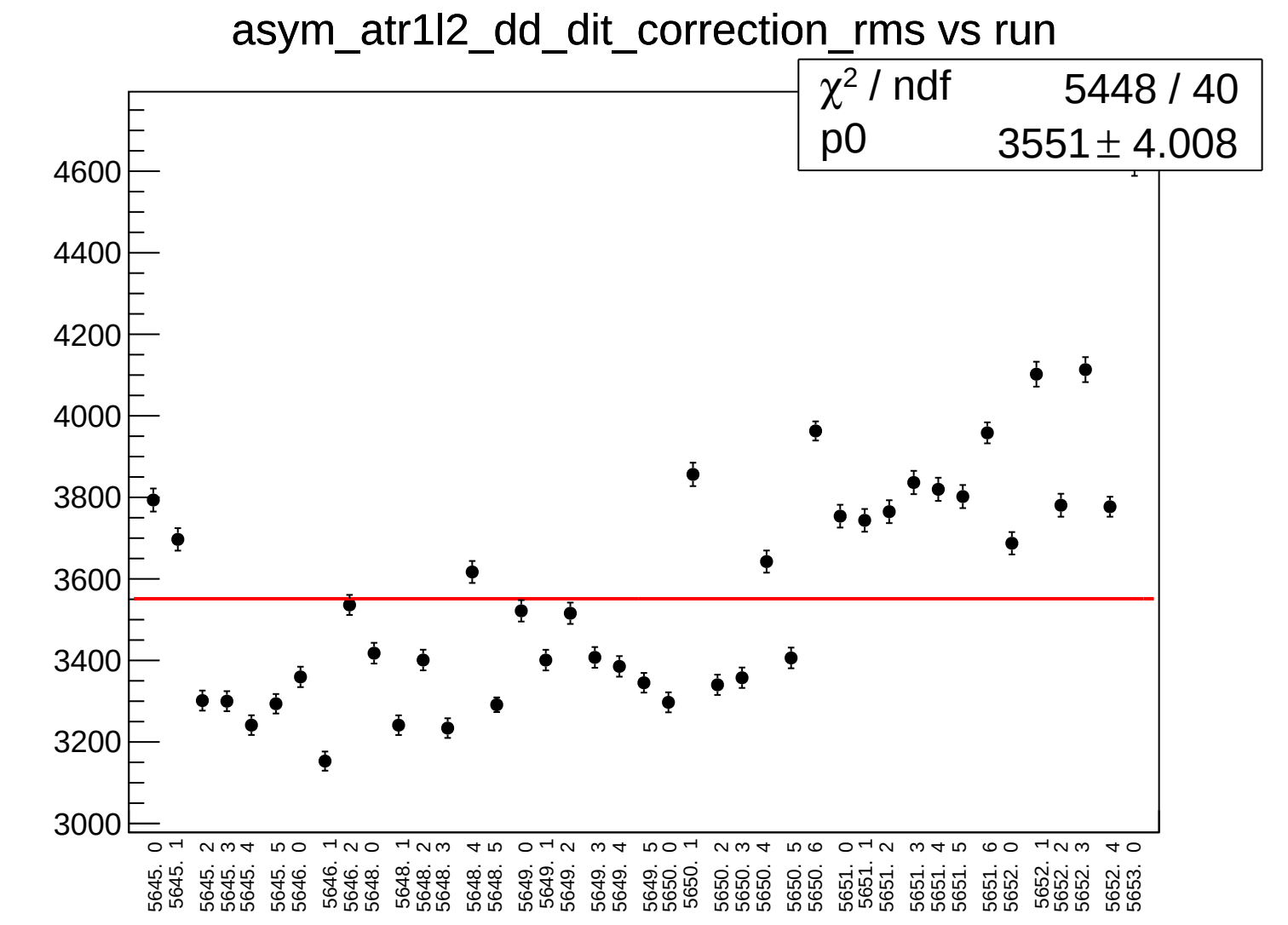

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 47.39 / 40
p0 −3808 ± 2584
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.29
Std Dev 0
2
1
0
−1
−2

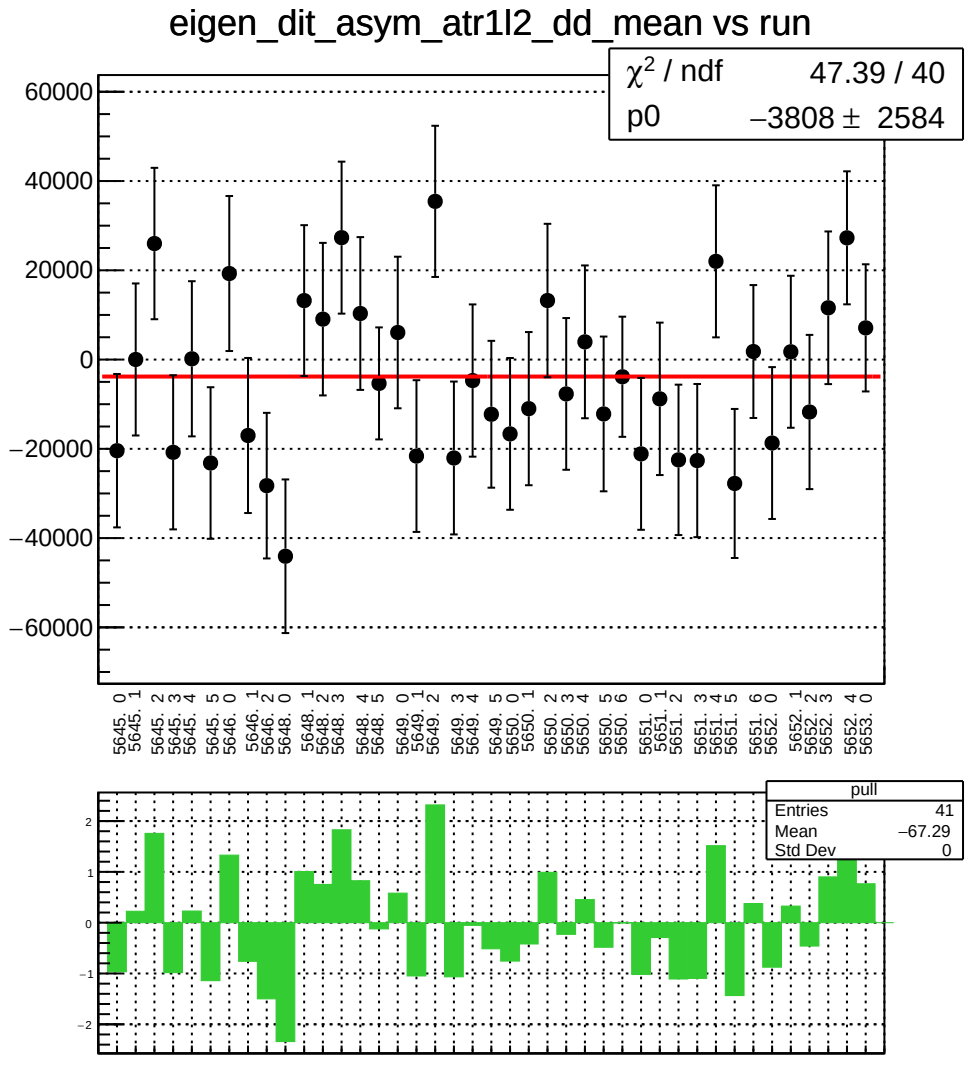

pull1D
Entries 41
Mean −0.009647
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

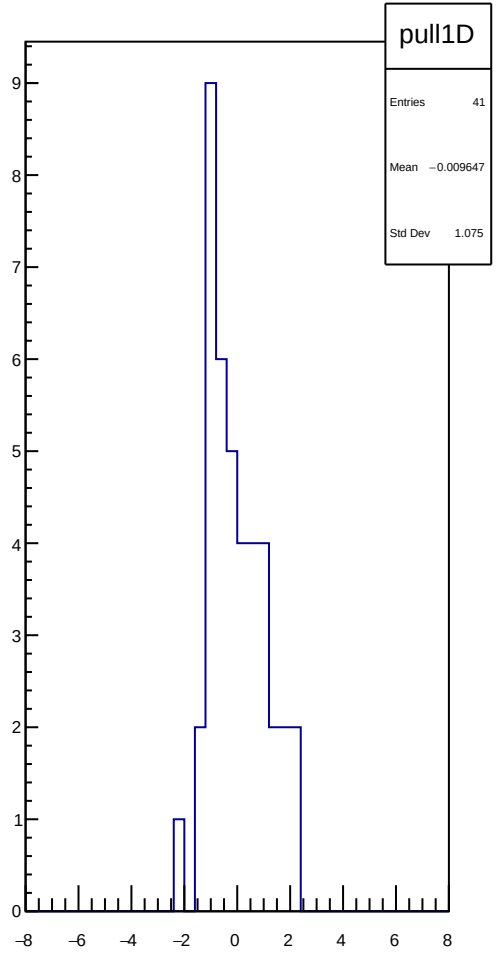

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 109.1 / 40
p0 1625 ± 1.828
1700
1680
1660
1640
1620
1600
1580
1560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

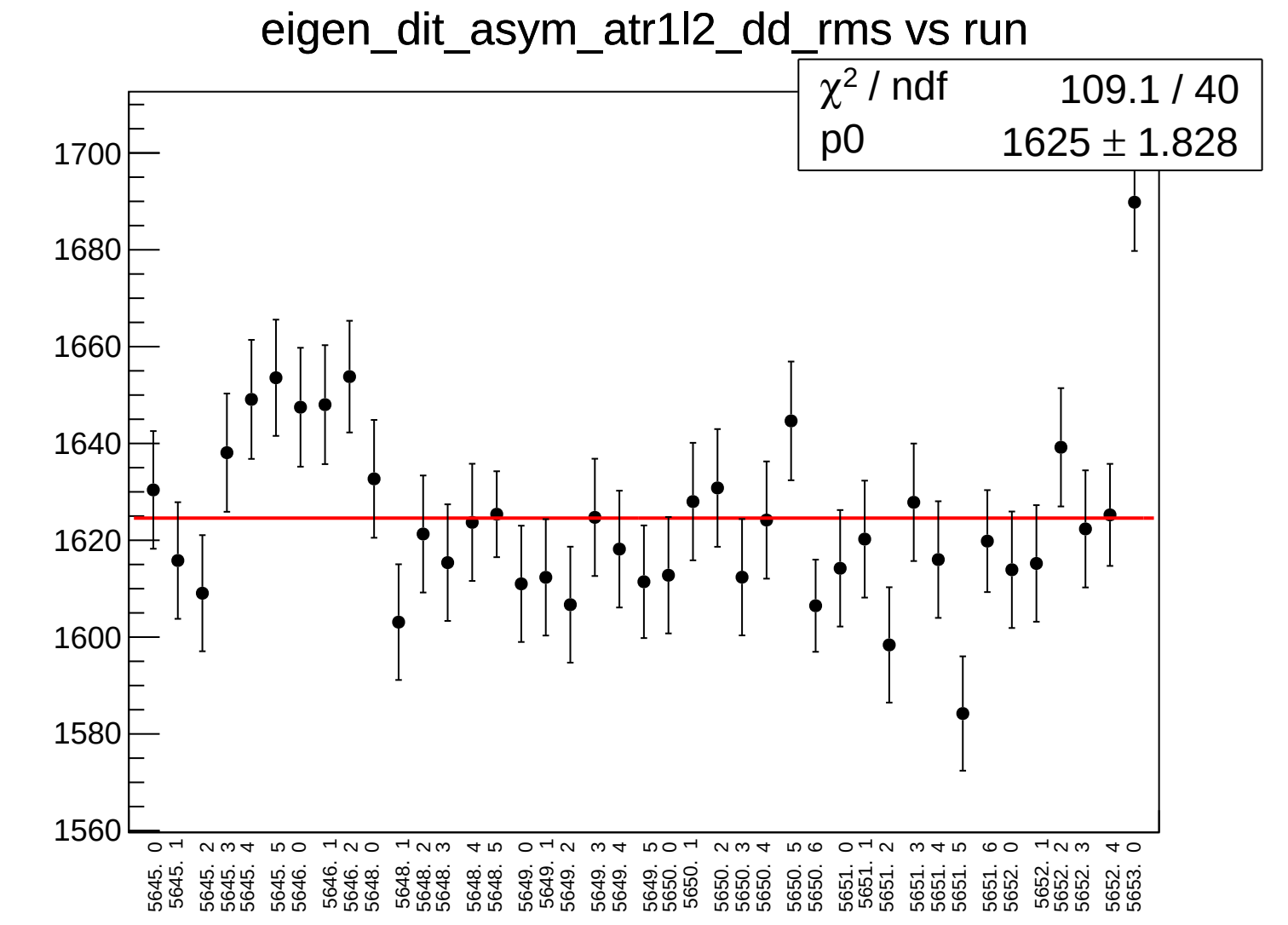

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 45.23 / 40
p0 3807 ± 5669
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.056
Std Dev 21.81
2
1
0
−1
−2

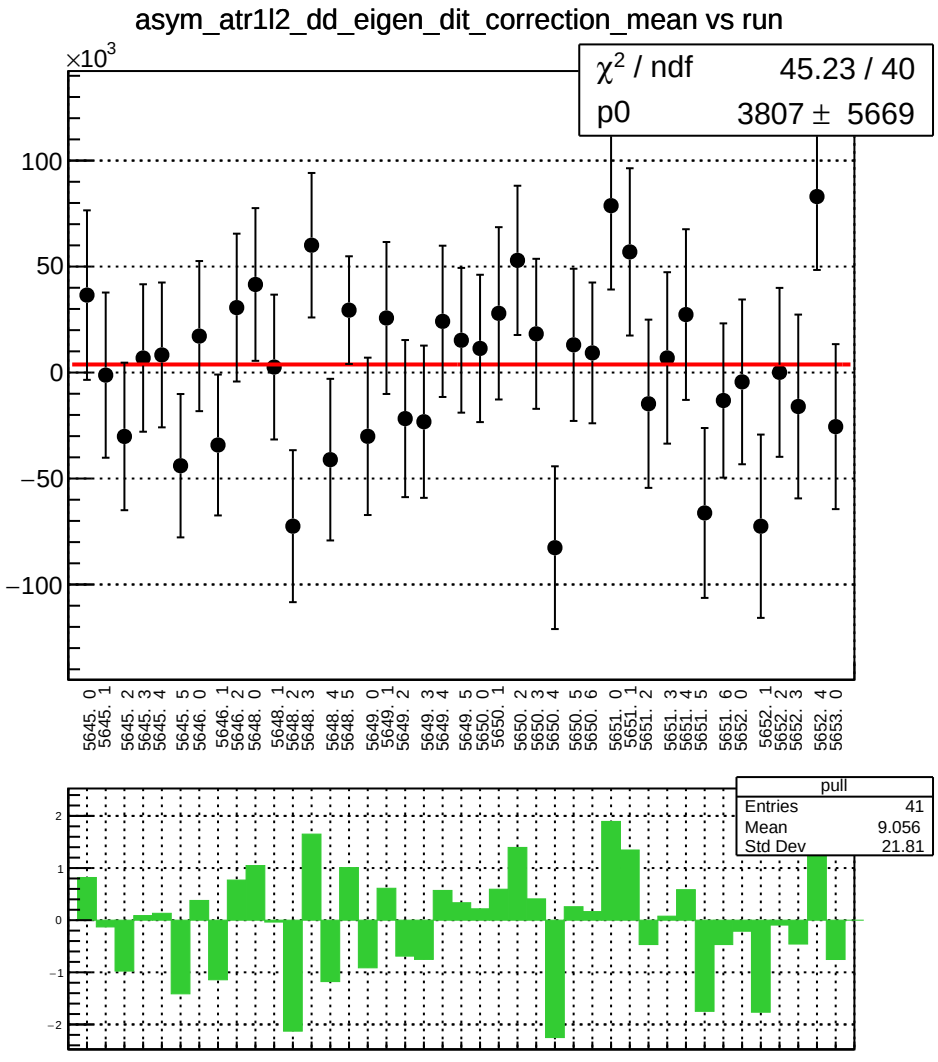

pull1D
Entries 41
Mean −0.02275
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

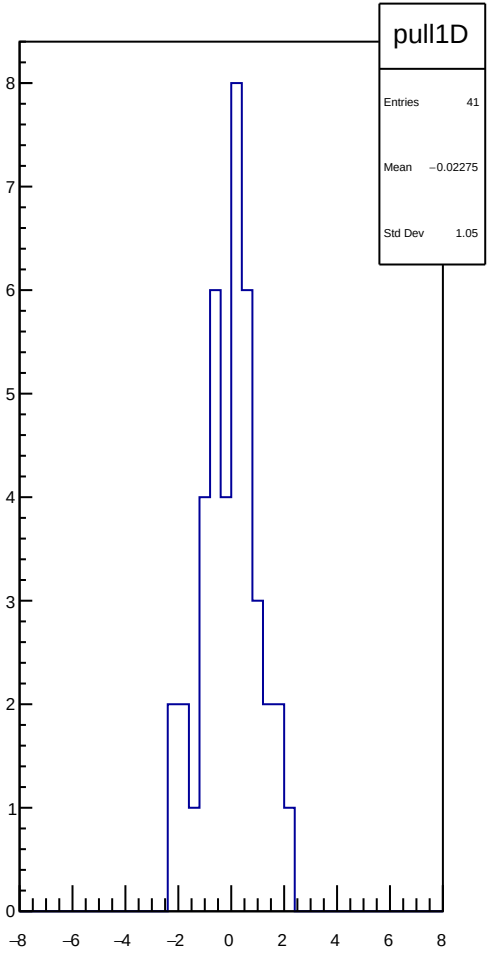

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5448 / 40
p0 3551 ± 4.008
4600
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

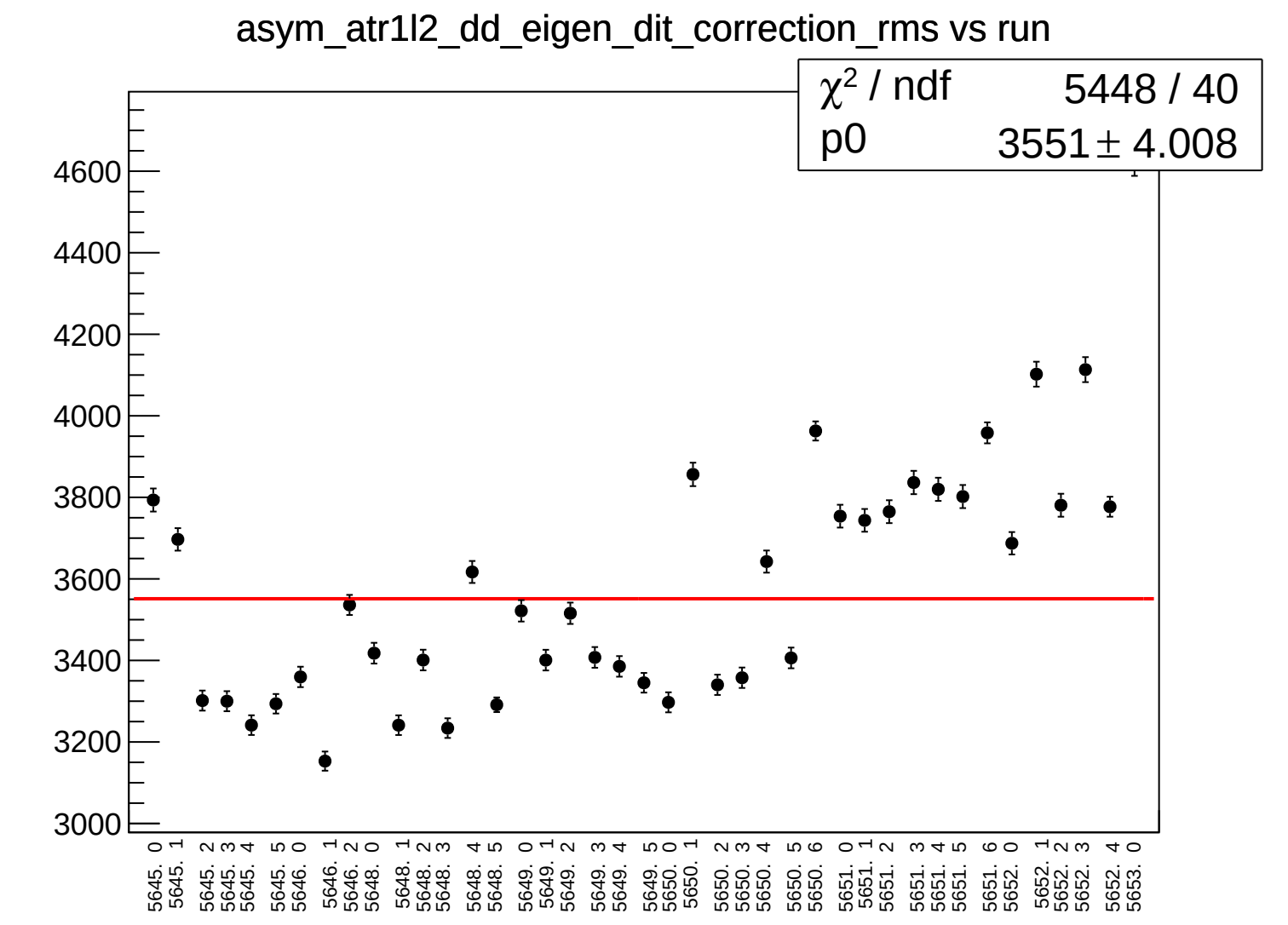

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 47.39 / 40
p0 −3808 ± 2584
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.29
Std Dev 0
2
1
0
−1
−2

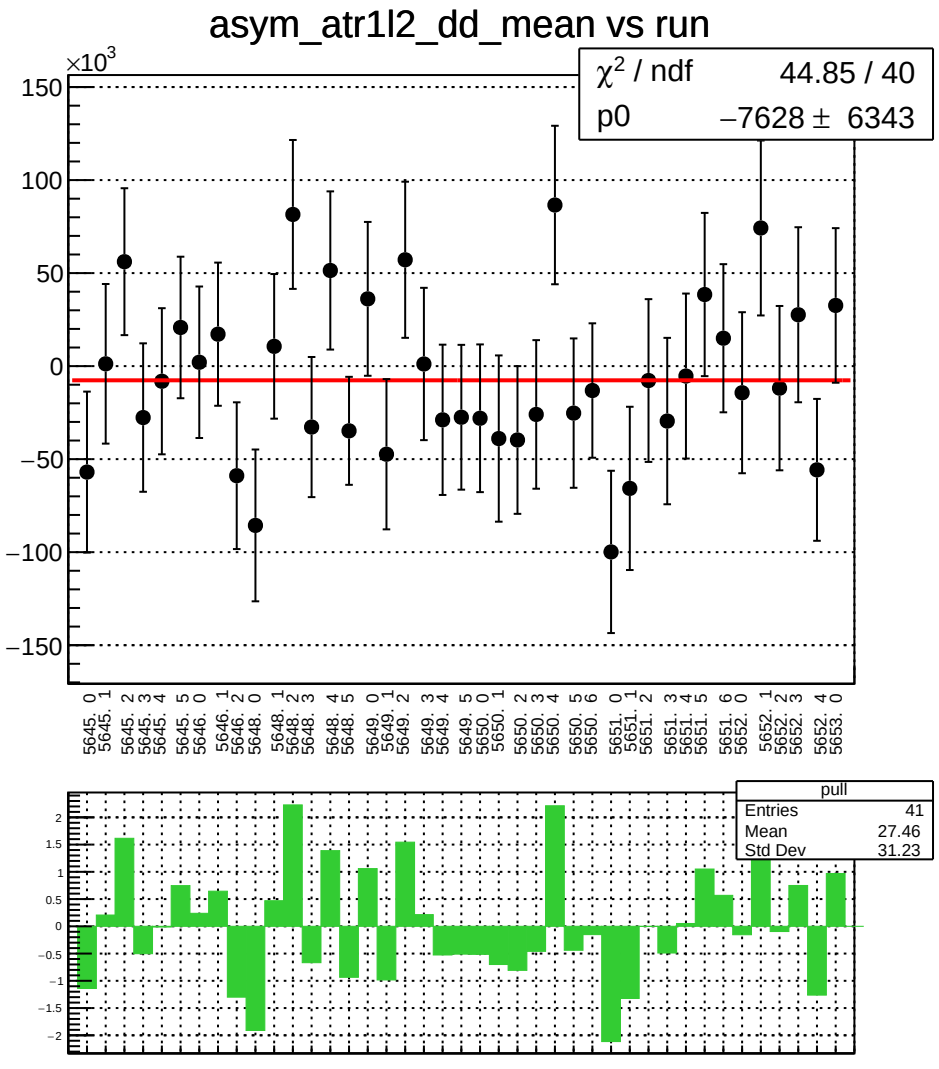

pull1D
Entries 41
Mean −0.009647
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

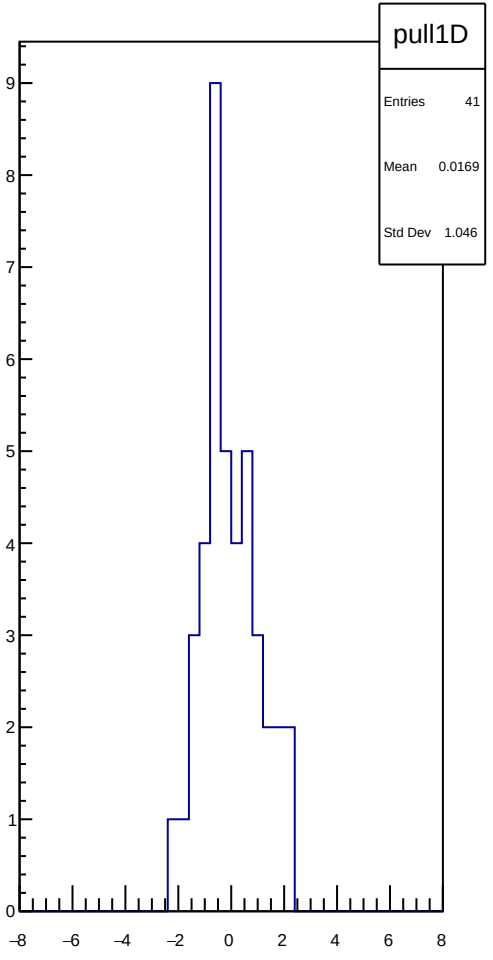

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 109.1 / 40
p0 1625 ± 1.828
1700
1680
1660
1640
1620
1600
1580
1560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

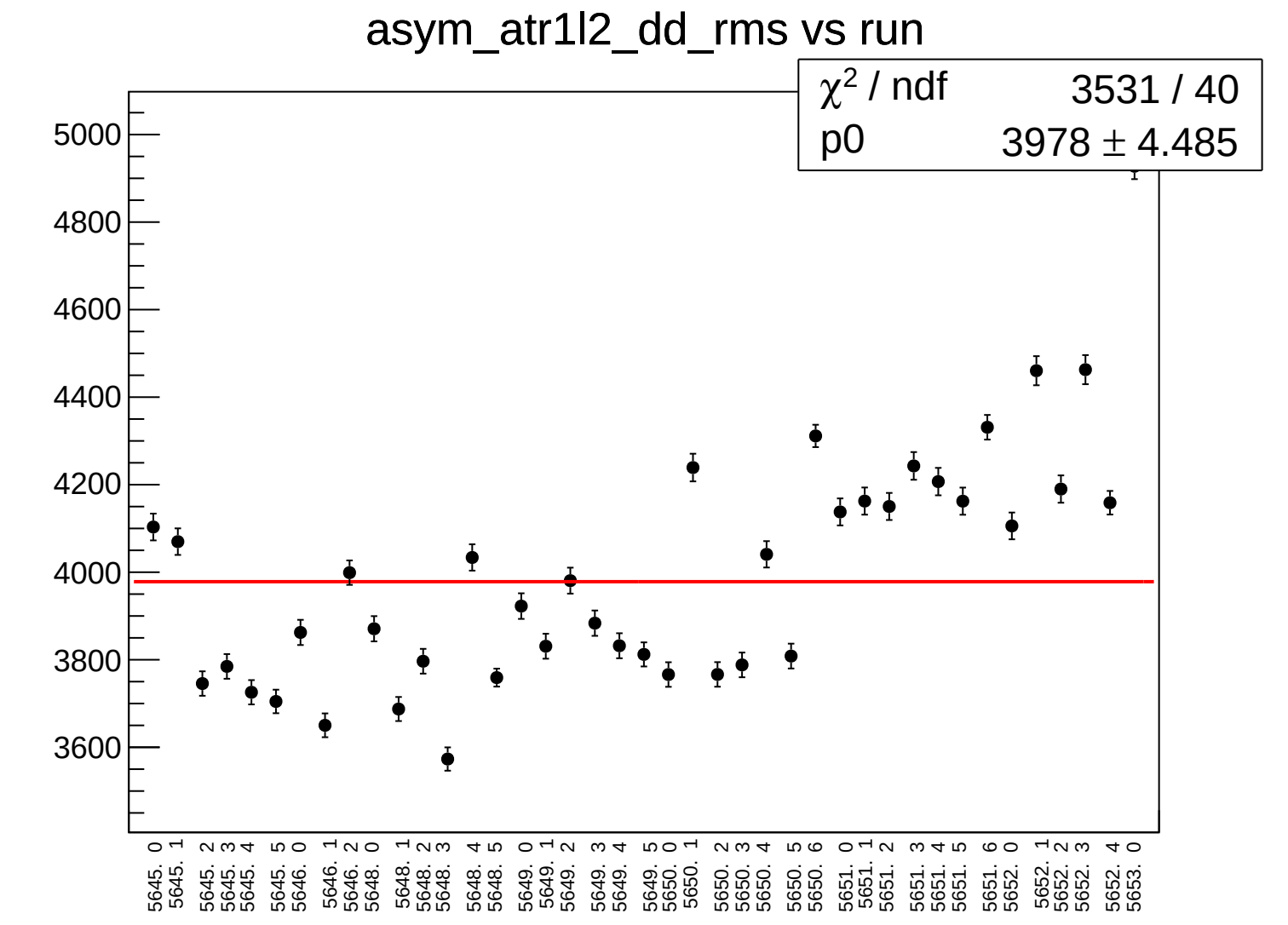

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 45.23 / 40
p0 3807 ± 5669
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.056
Std Dev 21.81
2
1
0
−1
−2

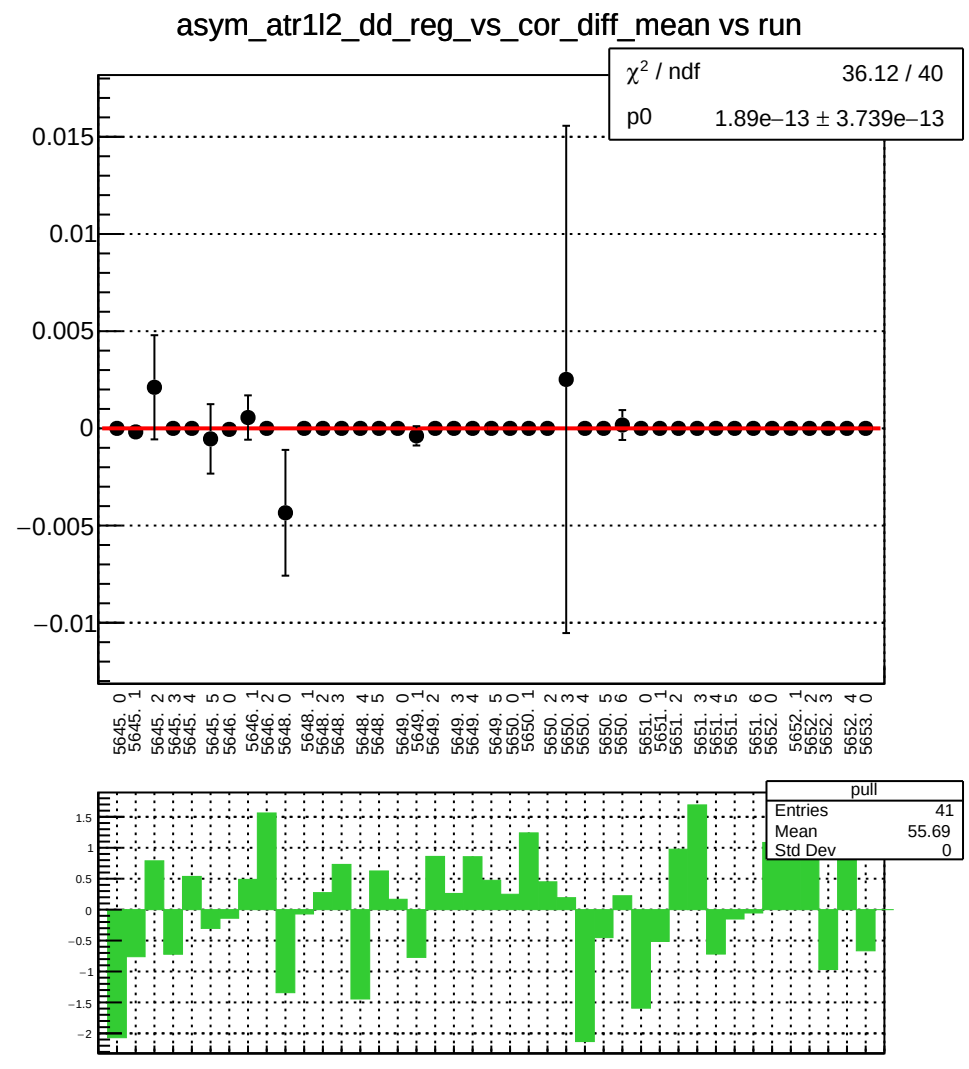

pull1D
Entries 41
Mean −0.02275
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

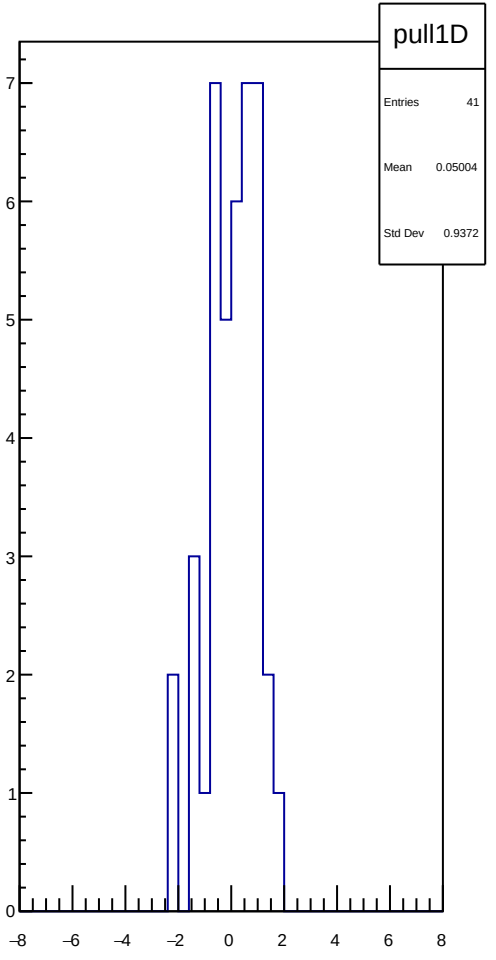

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5448 / 40
p0 3551 ± 4.008
4600
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

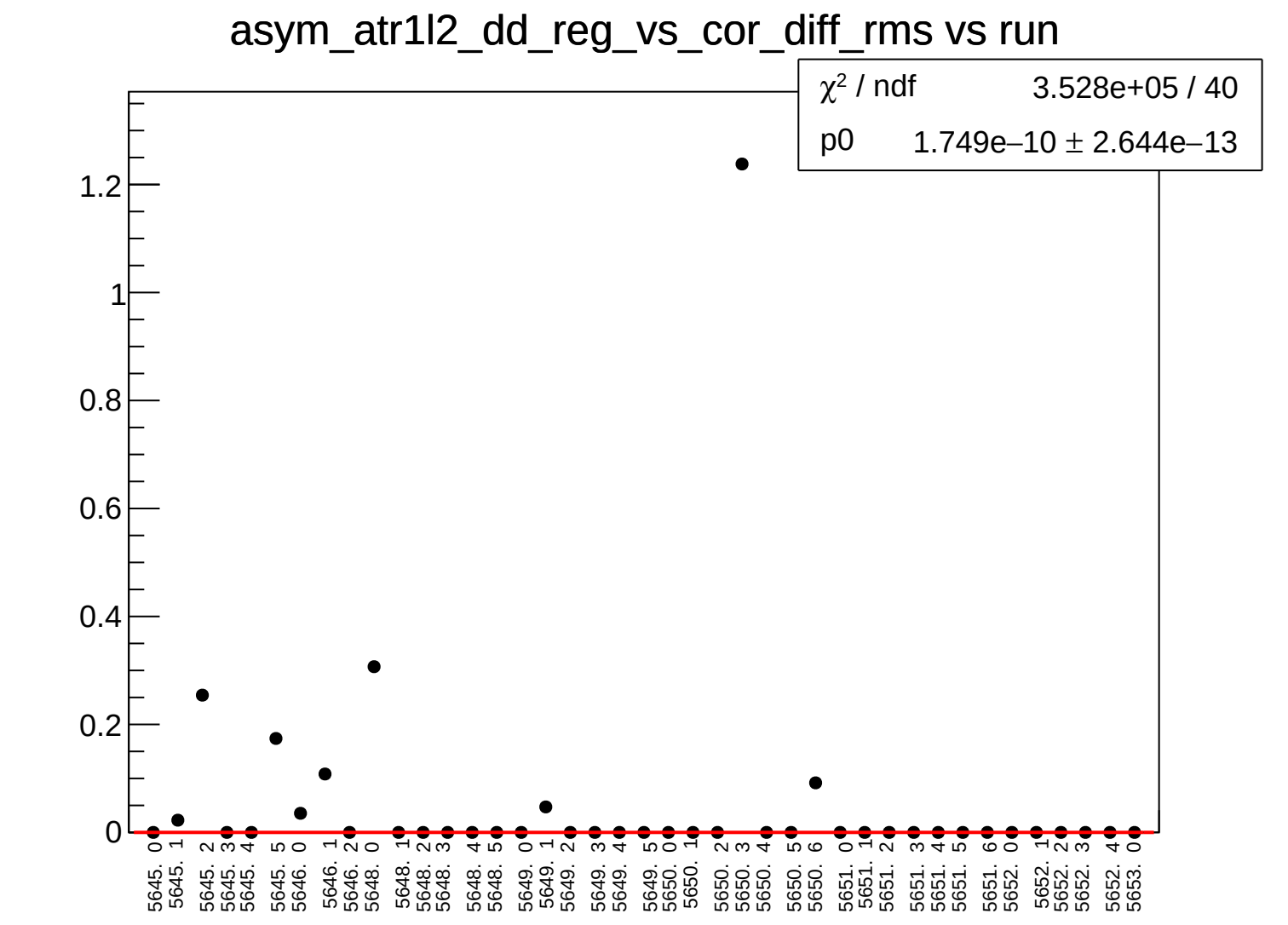

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 44.85 / 40
p0 −7628 ± 6343
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 27.46
Std Dev 31.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

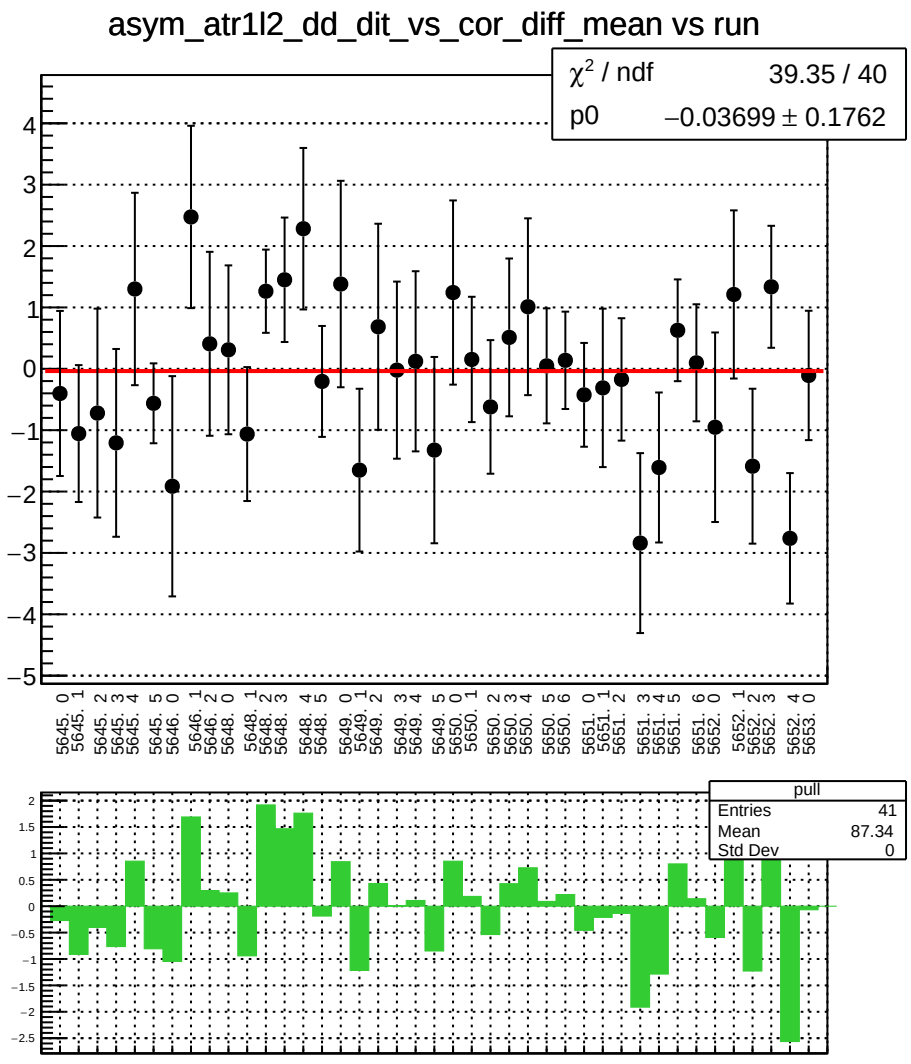

pull1D
Entries 41
Mean 0.0169
Std Dev 1.046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

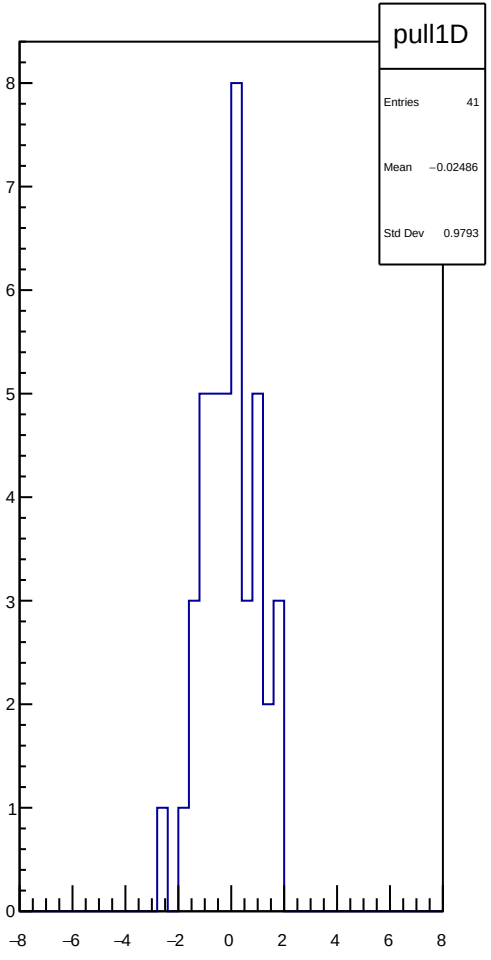

asym_atr1l2_dd_rms vs run
χ² / ndf 3531 / 40
p0 3978 ± 4.485
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

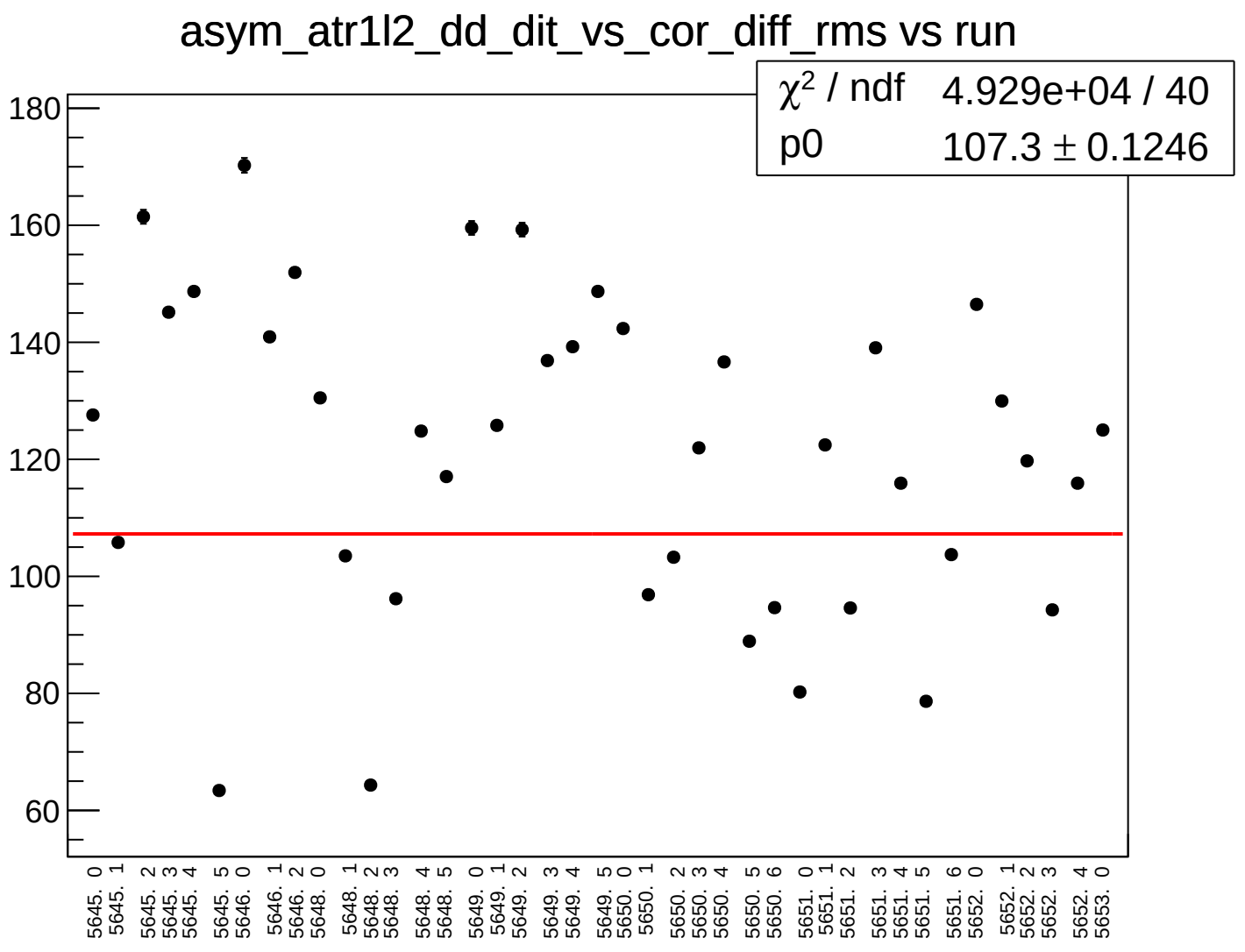

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 36.12 / 40
p0 1.89e−13 ± 3.739e−13
0.015
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 55.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.05004
Std Dev 0.9372
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

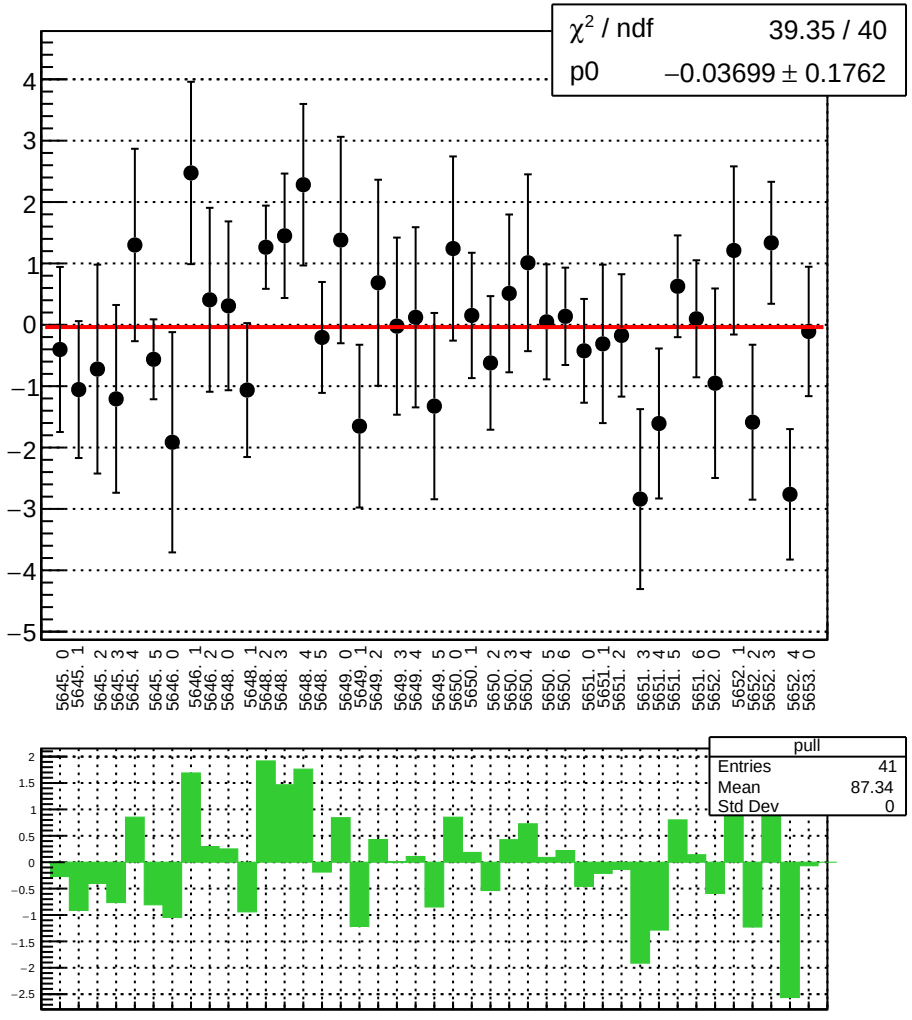

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.528e+05 / 40
p0 1.749e−10 ± 2.644e−13
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

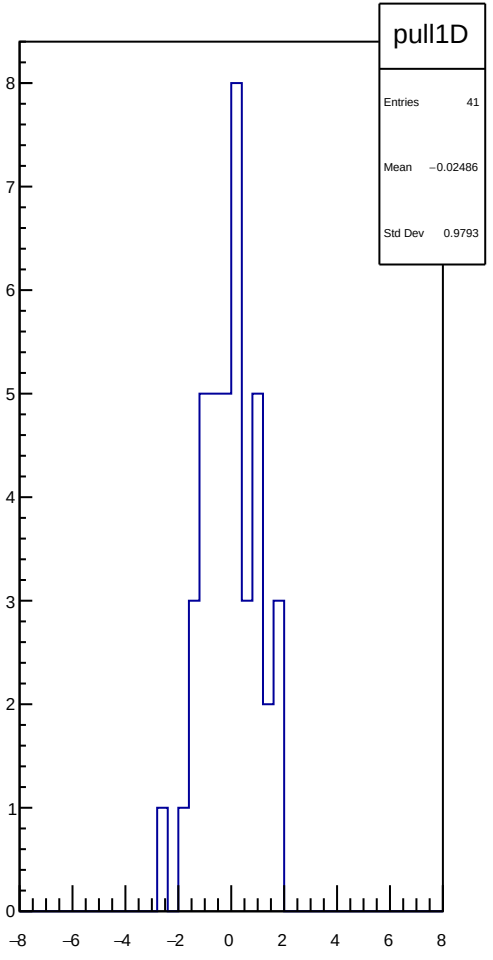

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 39.35 / 40
p0 −0.03699 ± 0.1762
pull
Entries 41
Mean 87.34
Std Dev 0

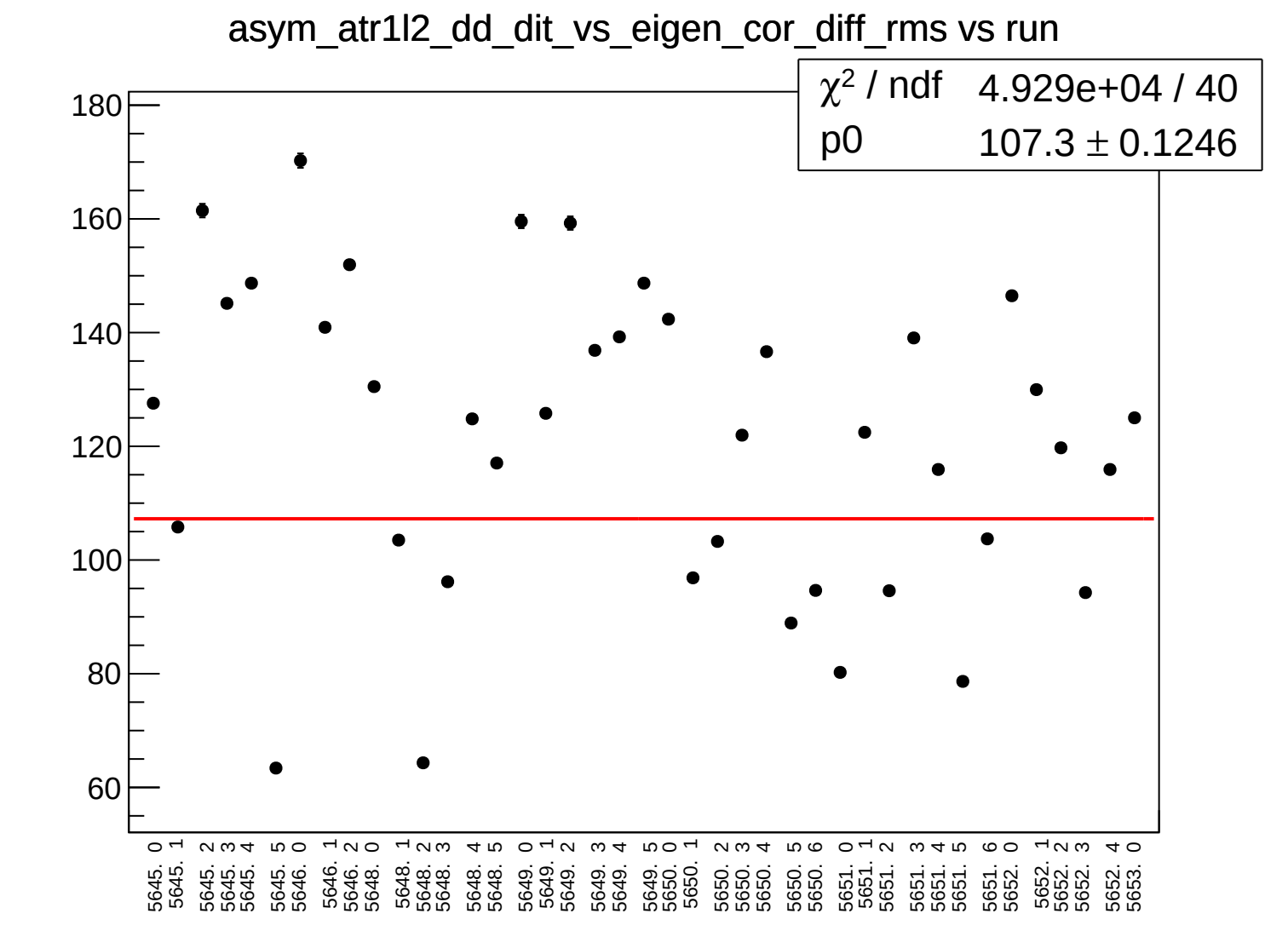

pull1D
Entries 41
Mean −0.02486
Std Dev 0.9793

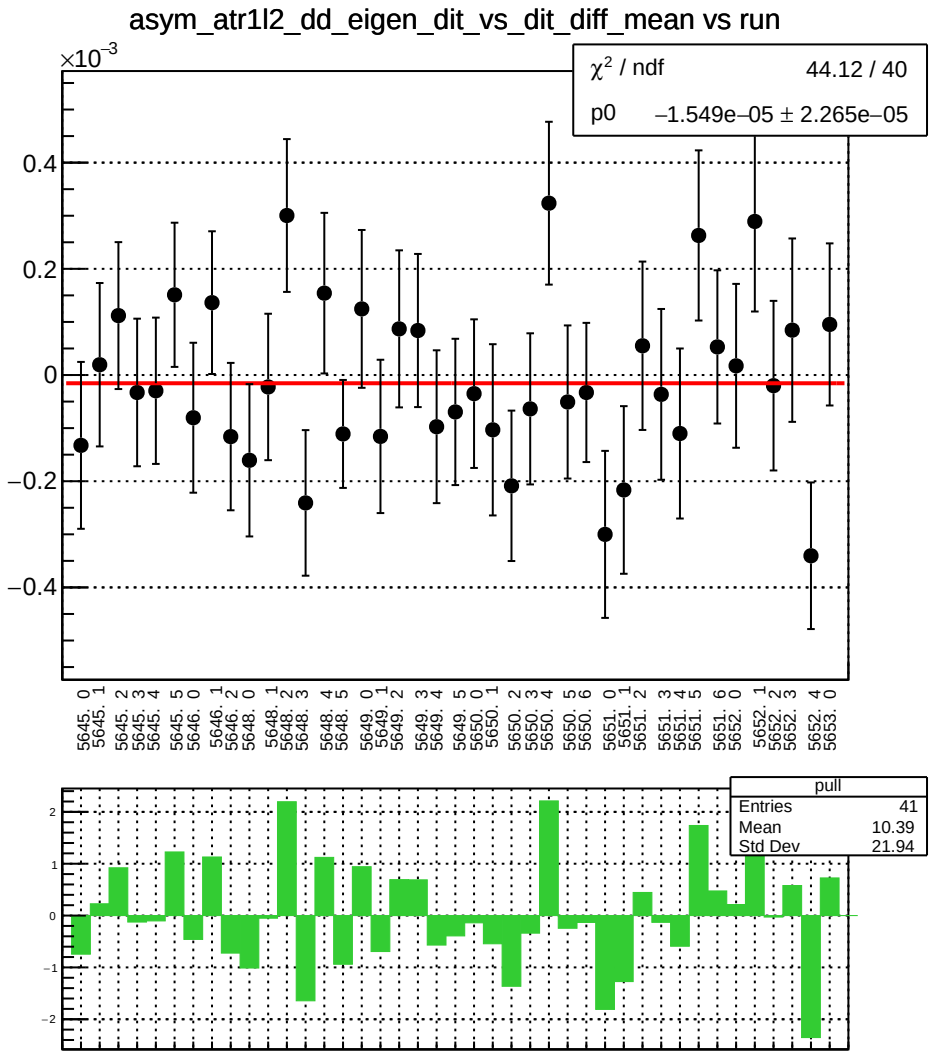

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.929e+04 / 40
p0 107.3 ± 0.1246
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run






asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.929e+04 / 40
p0 107.3 ± 0.1246
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 44.12 / 40
p0 −1.549e−05 ± 2.265e−05
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
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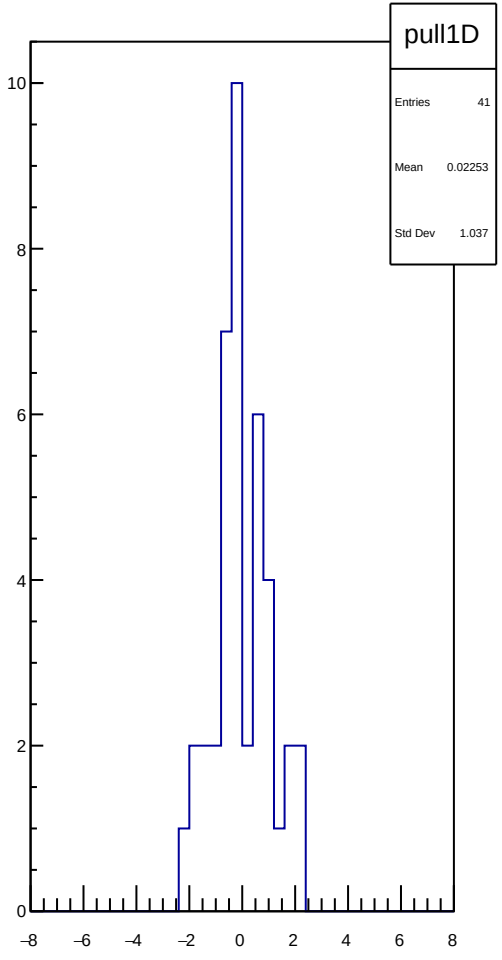
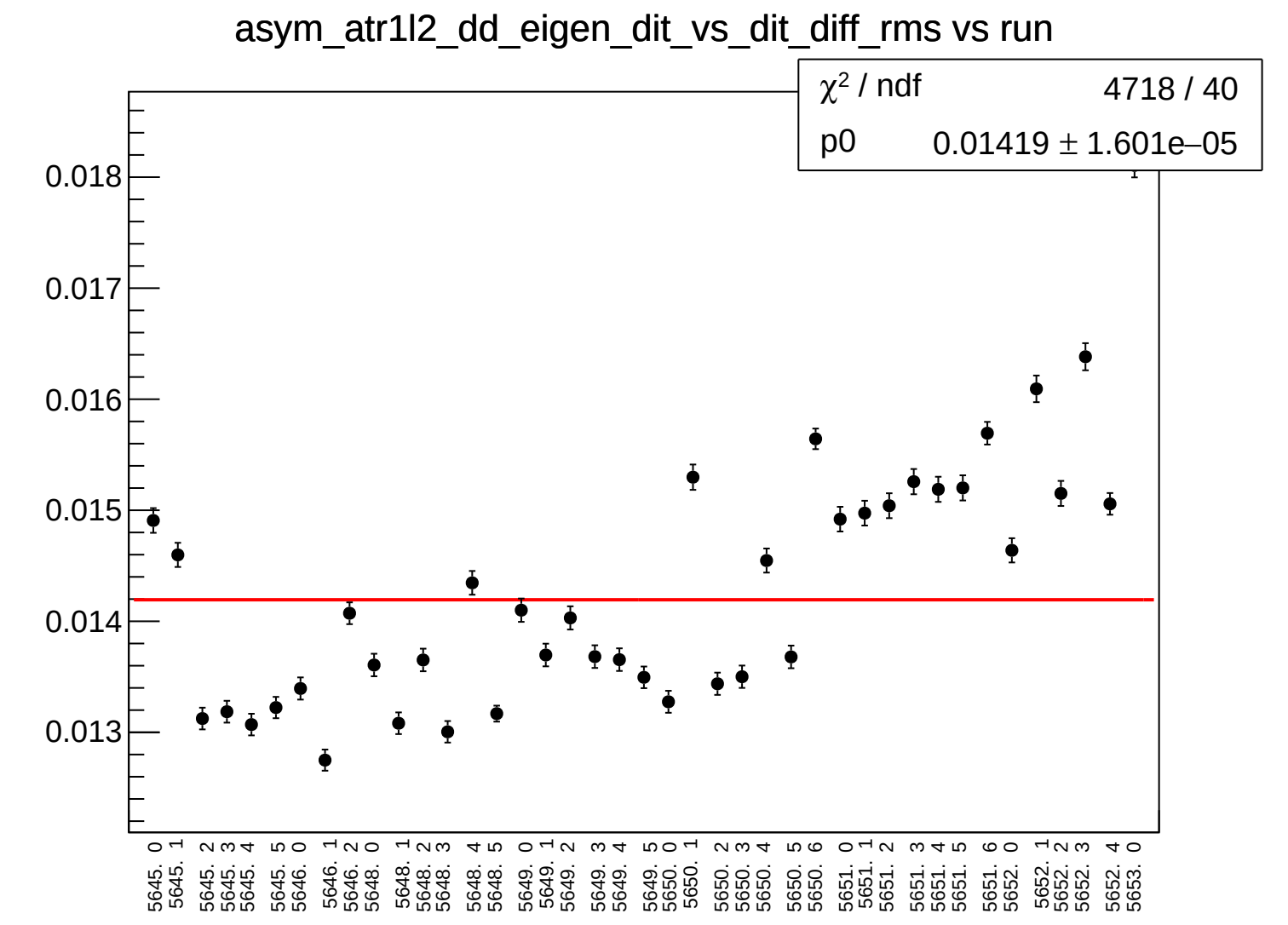
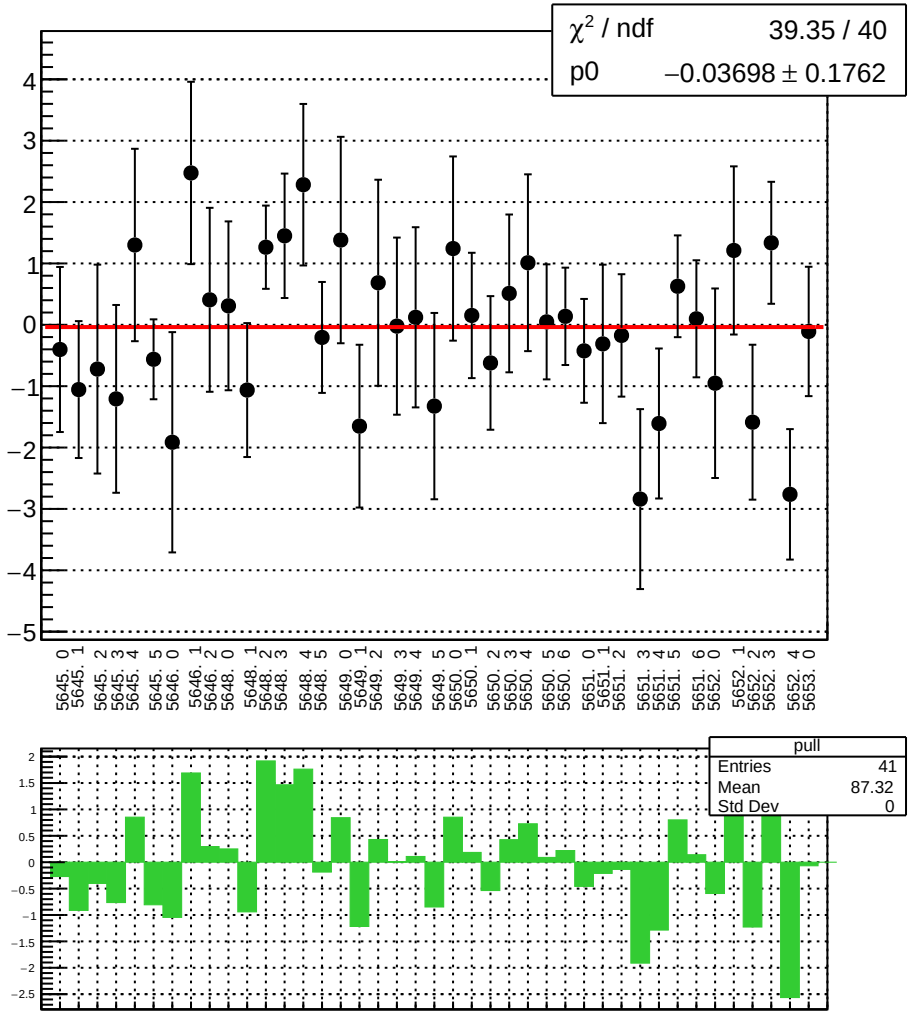
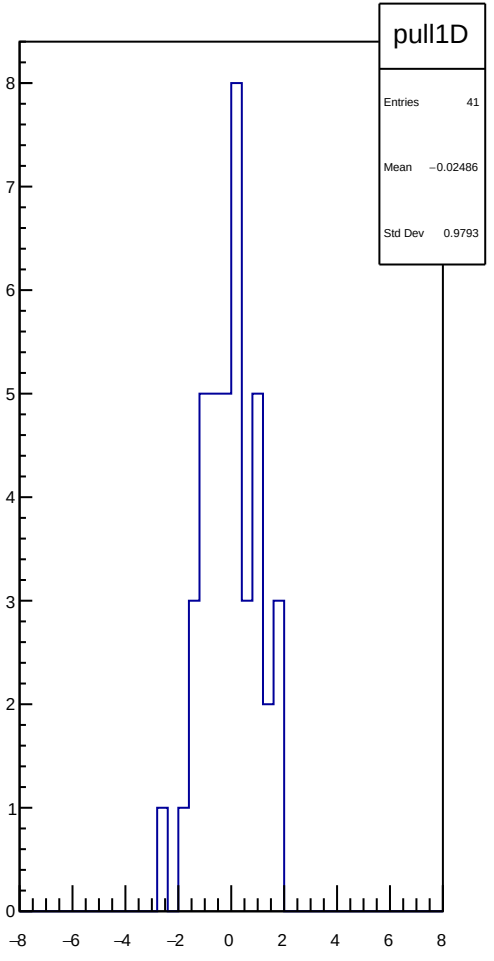
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.39
Std Dev 21.94
2
1
0
−1
−2

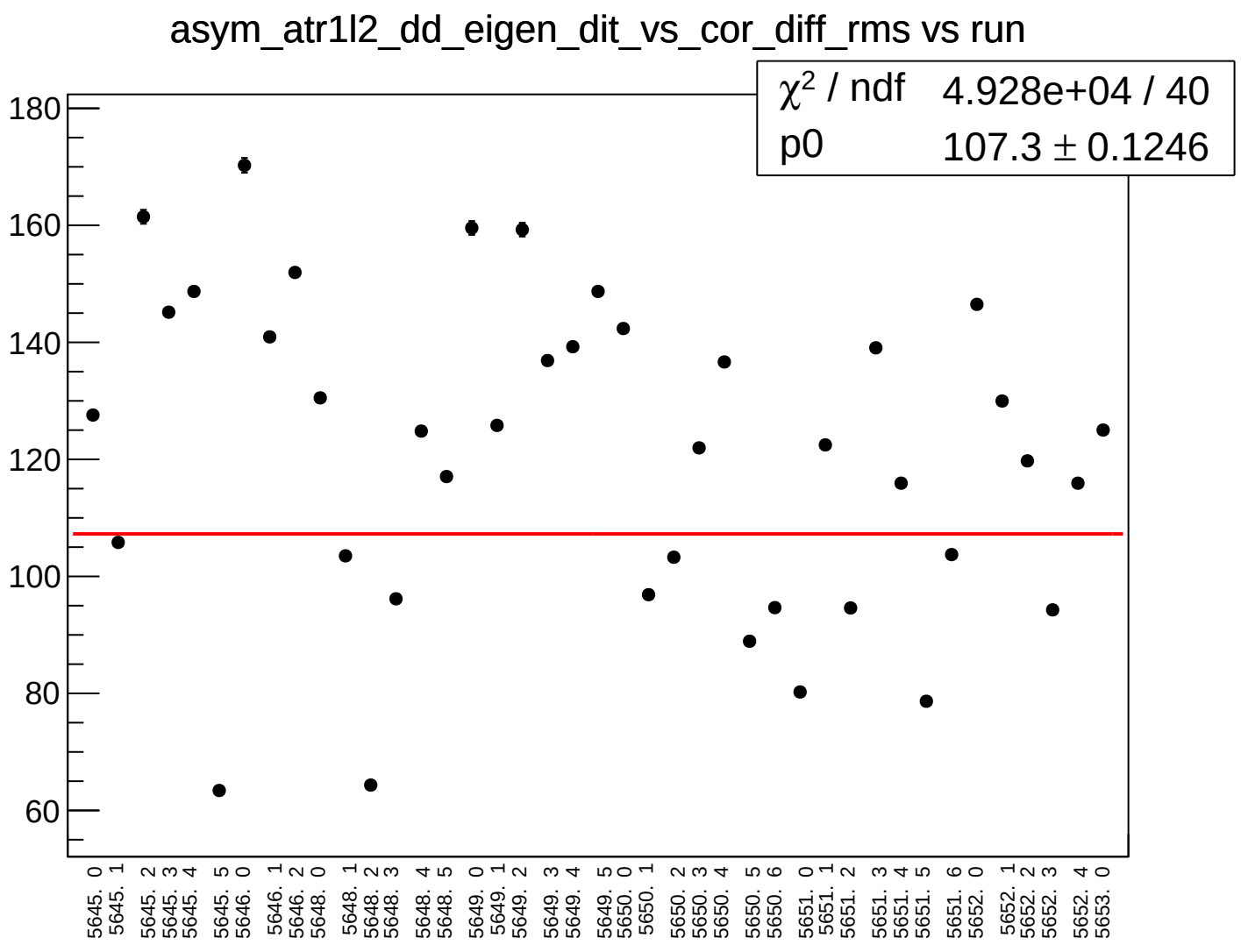

pull1D
Entries 41
Mean 0.02253
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

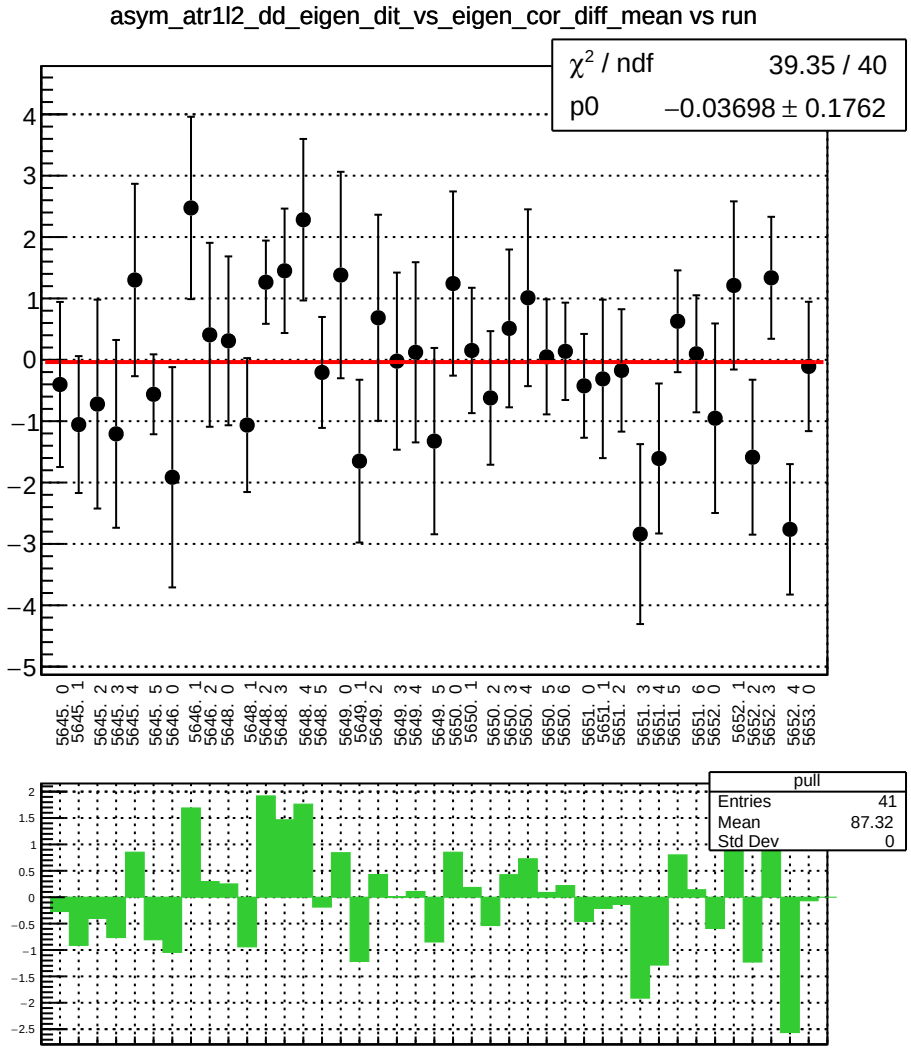

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4718 / 40
p0 0.01419 ± 1.601e−05
0.018
0.017
0.016
0.015
0.014
0.013
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

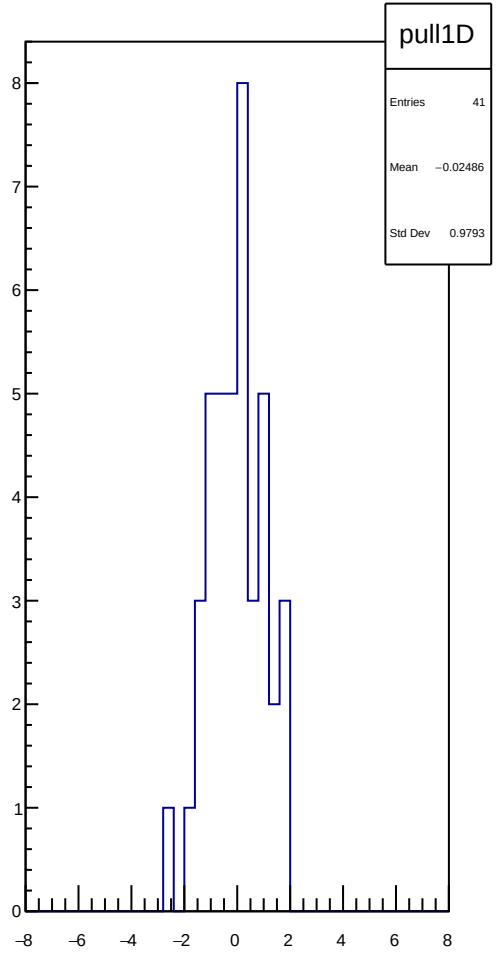
asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run

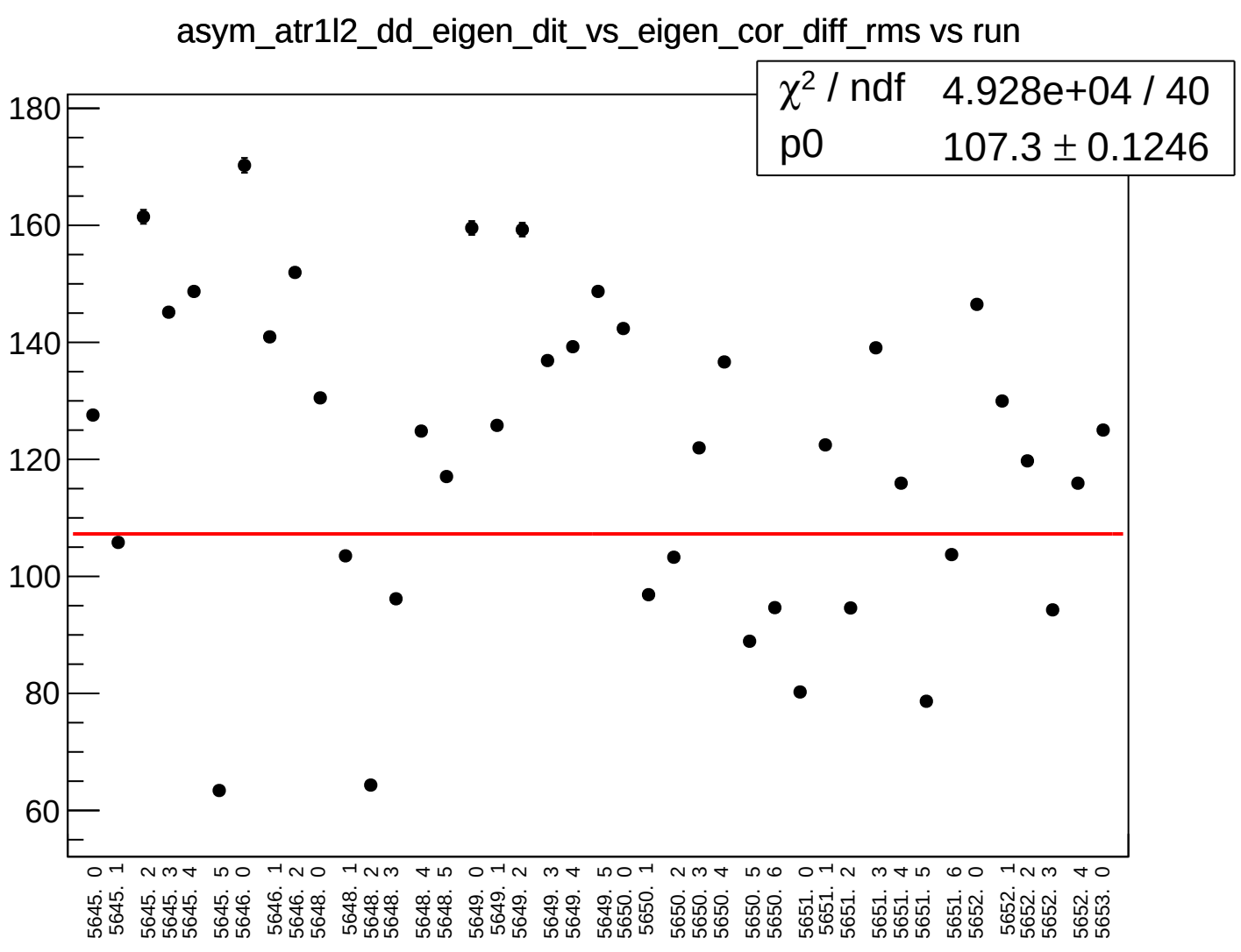


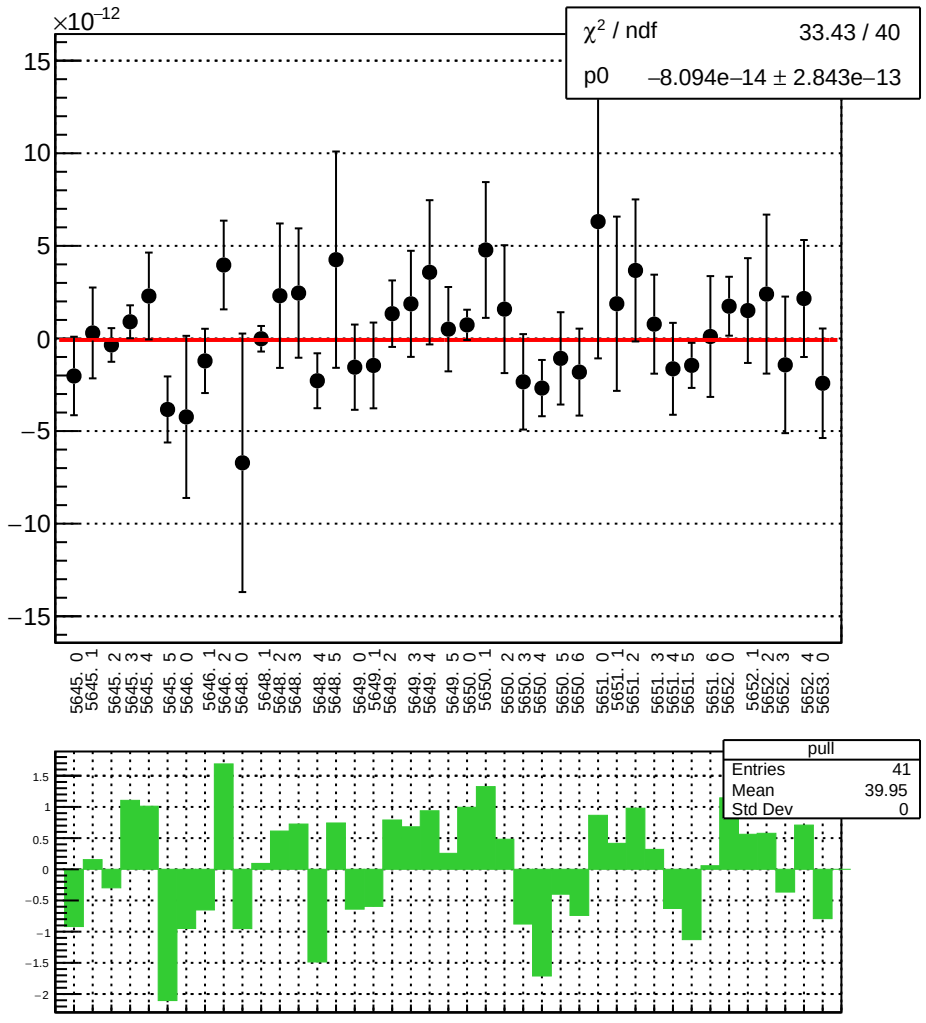


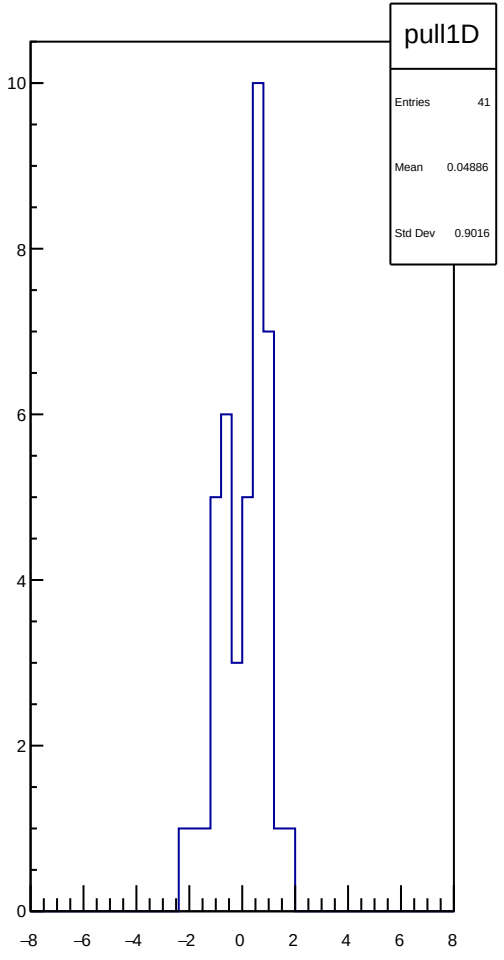

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.928e+04 / 40
p0 107.3 ± 0.1246
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

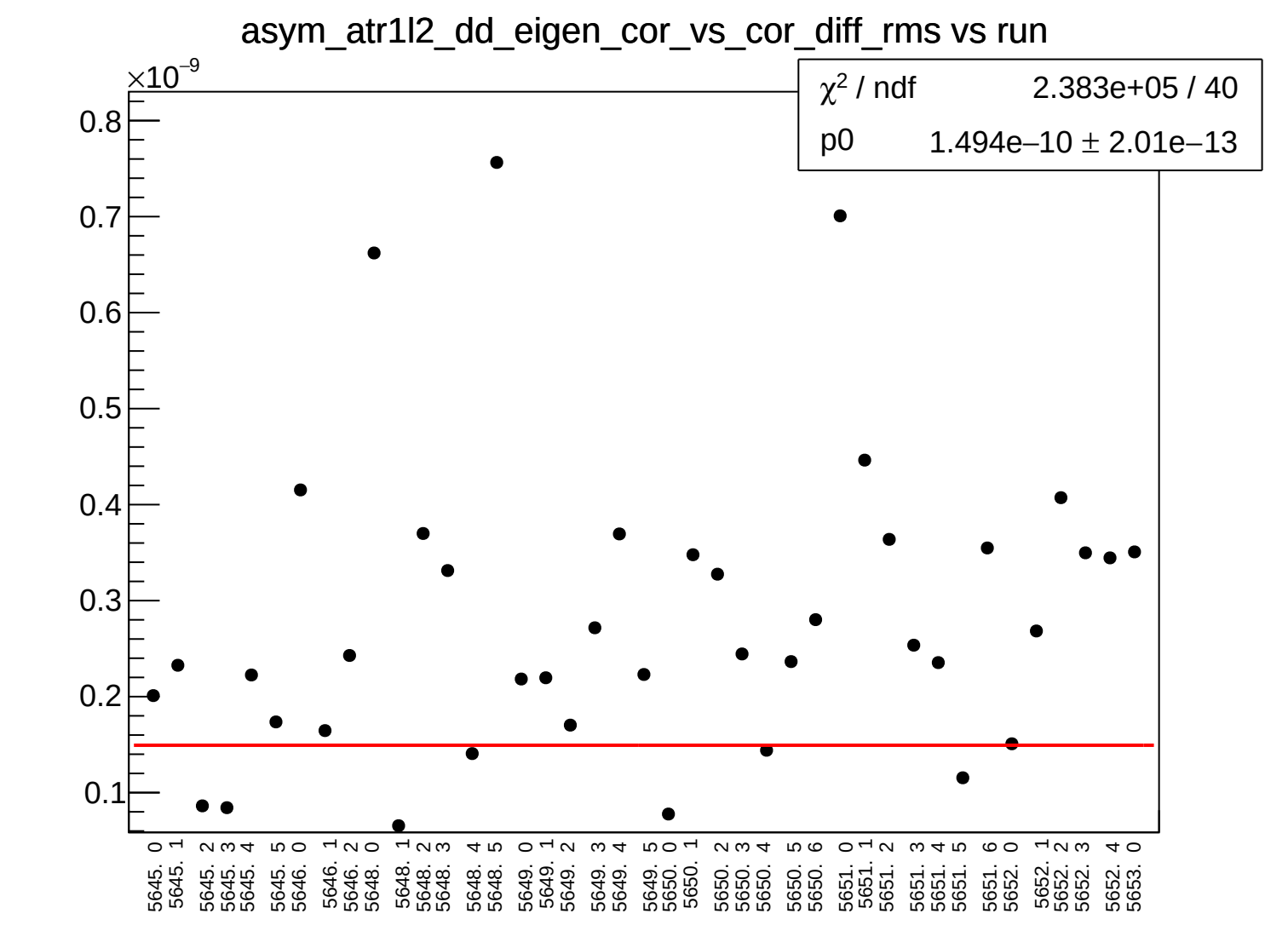

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.35 / 40
p0 −0.03698 ± 0.1762
pull
Entries 41
Mean 87.32
Std Dev 0

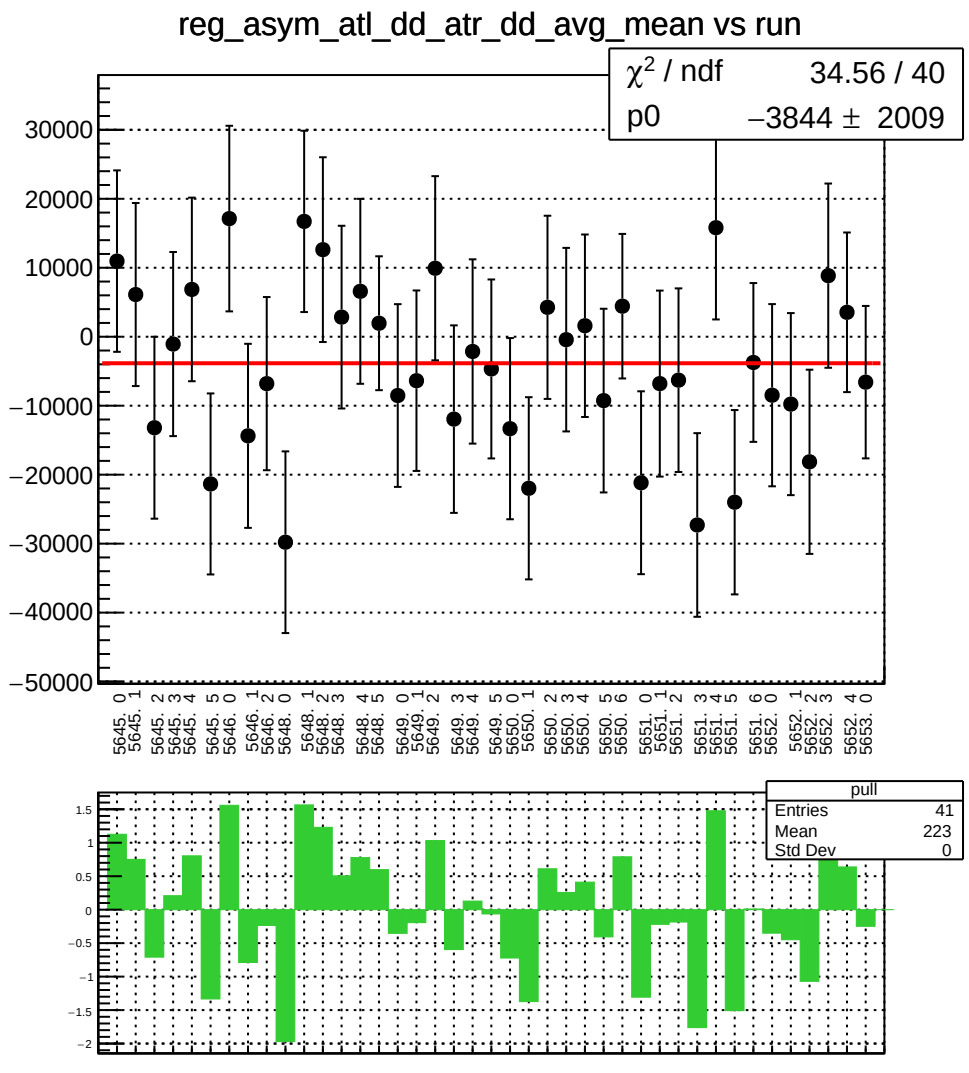

pull1D
Entries 41
Mean −0.02486
Std Dev 0.9793

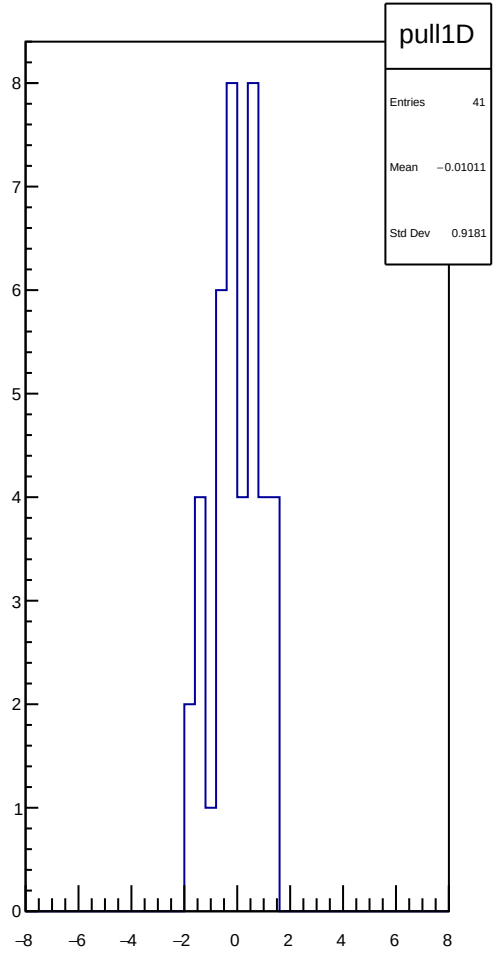

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.928e+04 / 40
p0 107.3 ± 0.1246
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

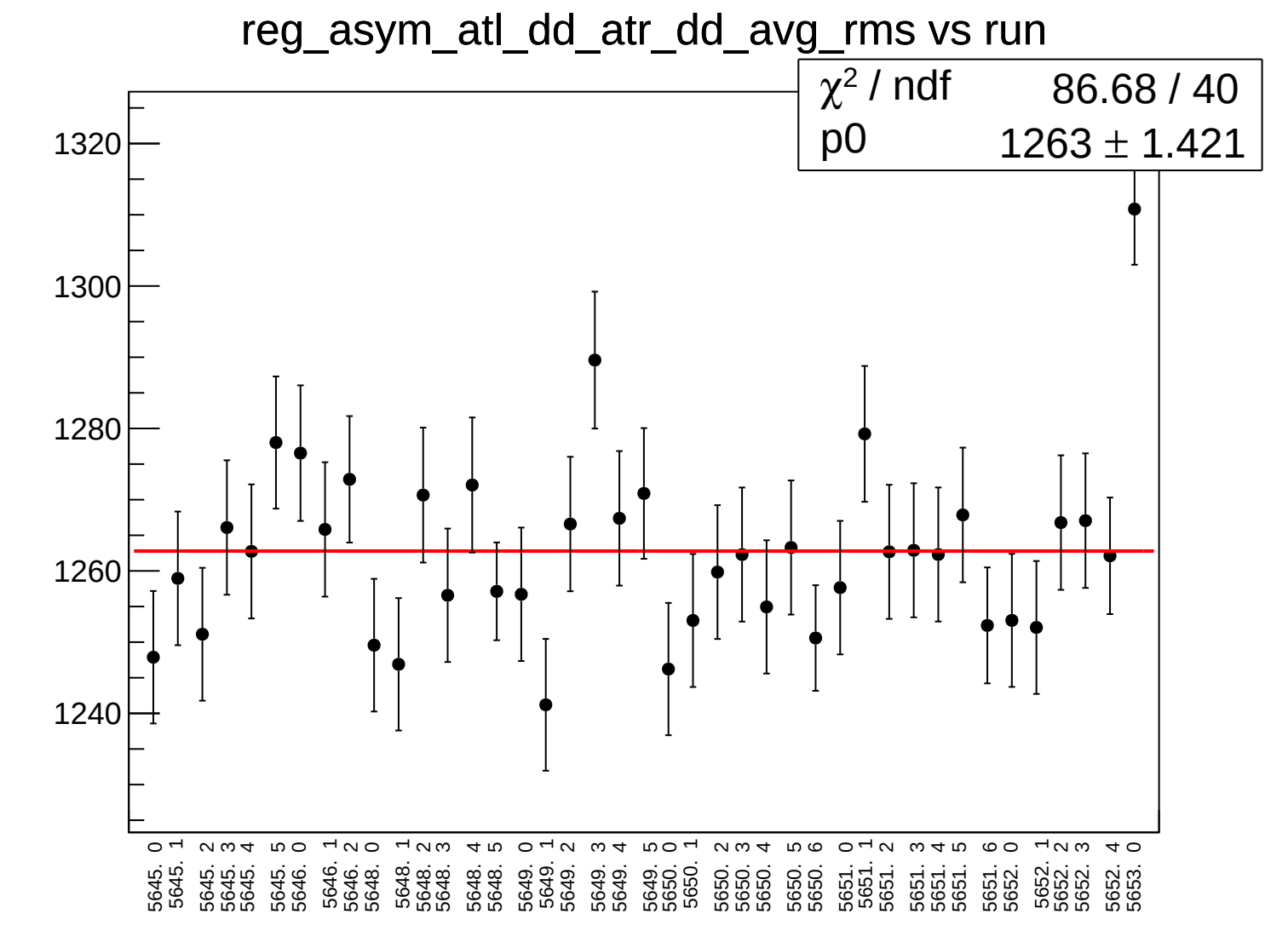

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.43 / 40
p0 −8.094e−14 ± 2.843e−13
pull
Entries 41
Mean 39.95
Std Dev 0

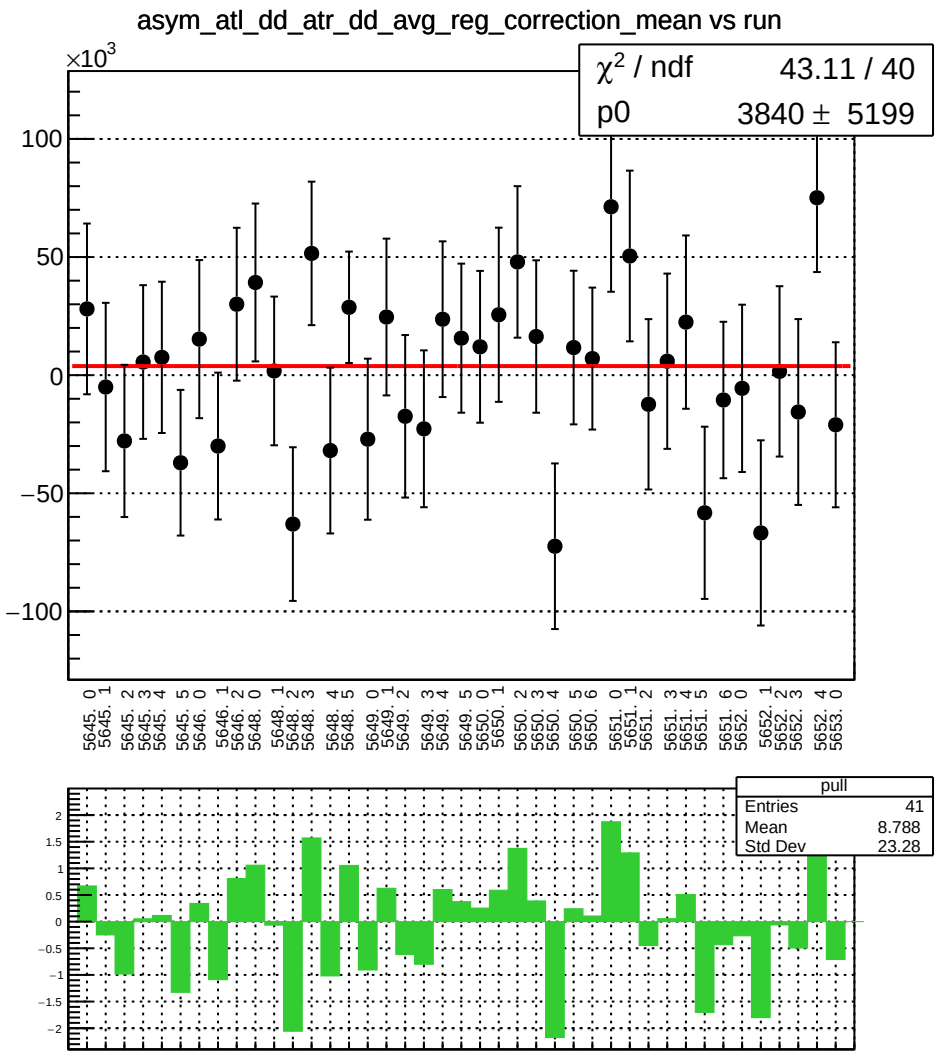

pull1D
Entries 41
Mean 0.04886
Std Dev 0.9016

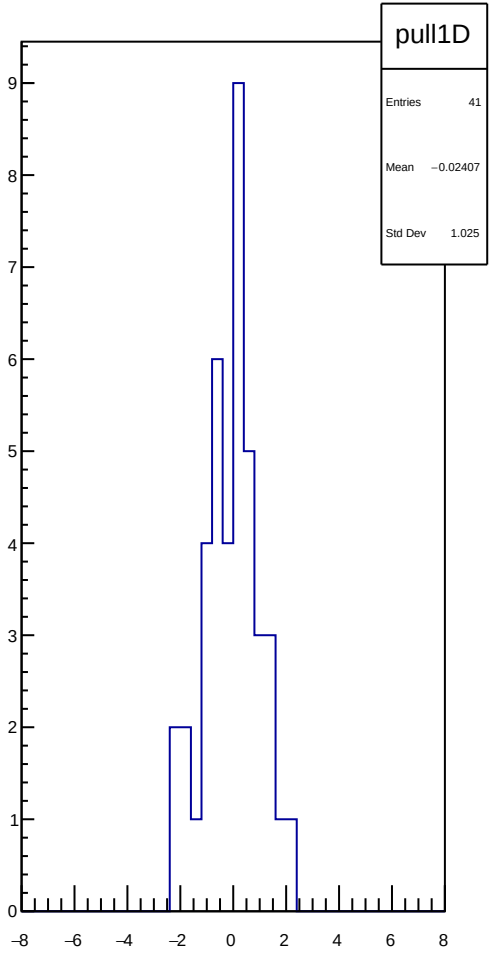

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.383e+05 / 40
p0 1.494e−10 ± 2.01e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

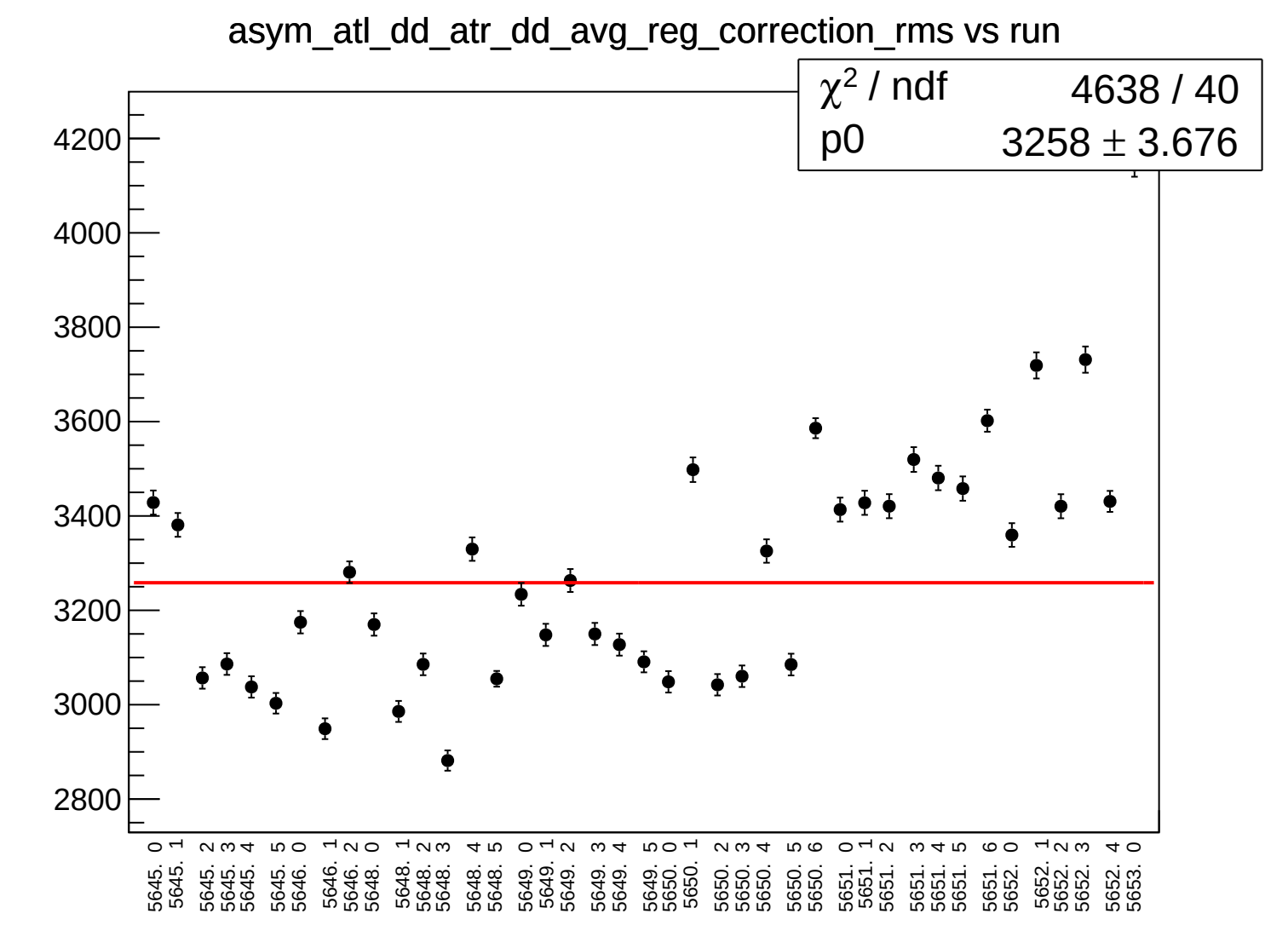

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
pull
Entries 41
Mean 223
Std Dev 0

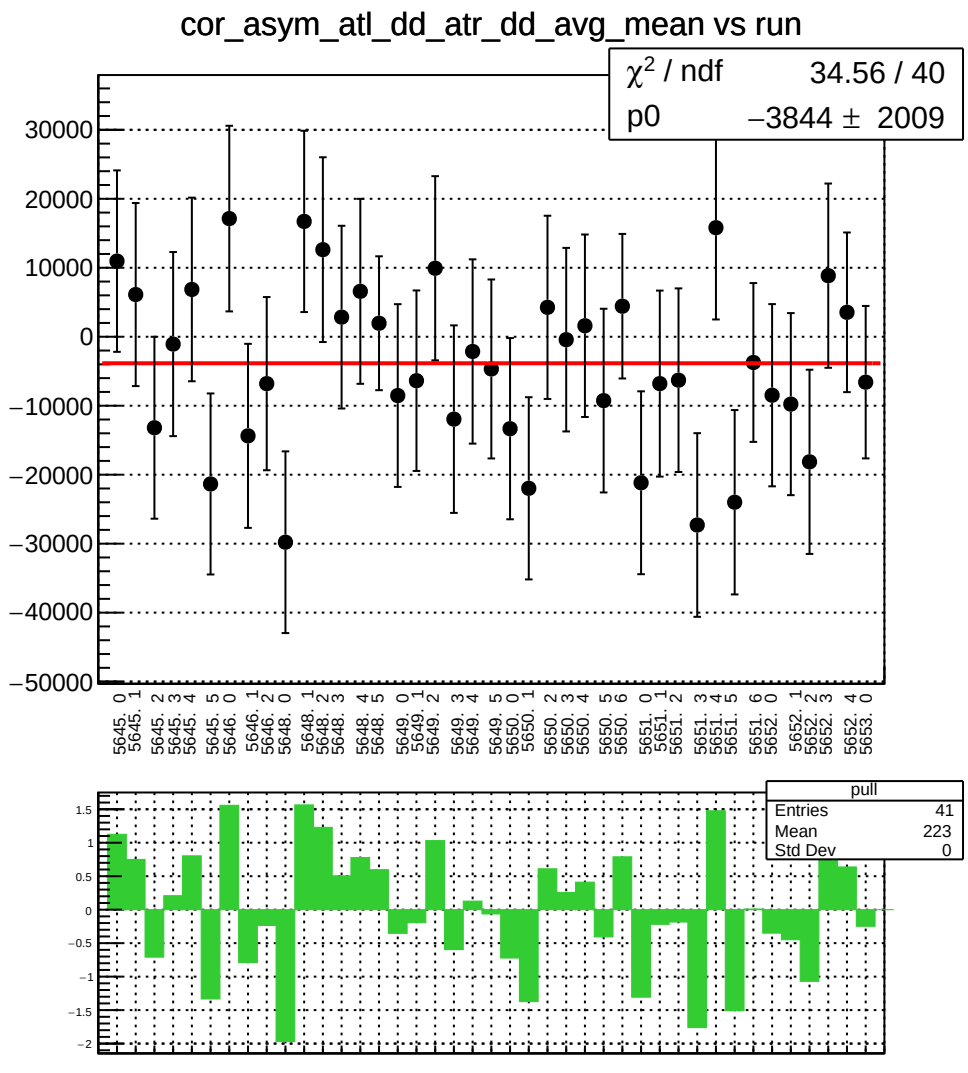

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181

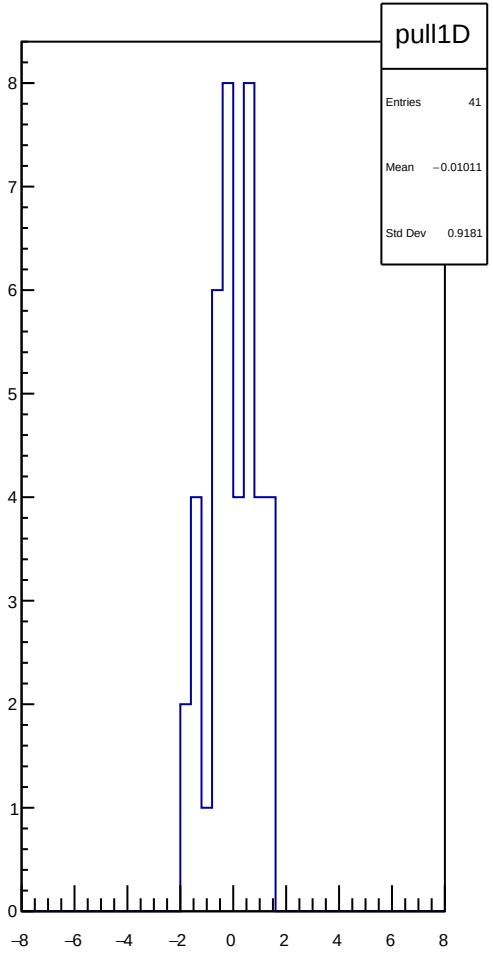

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

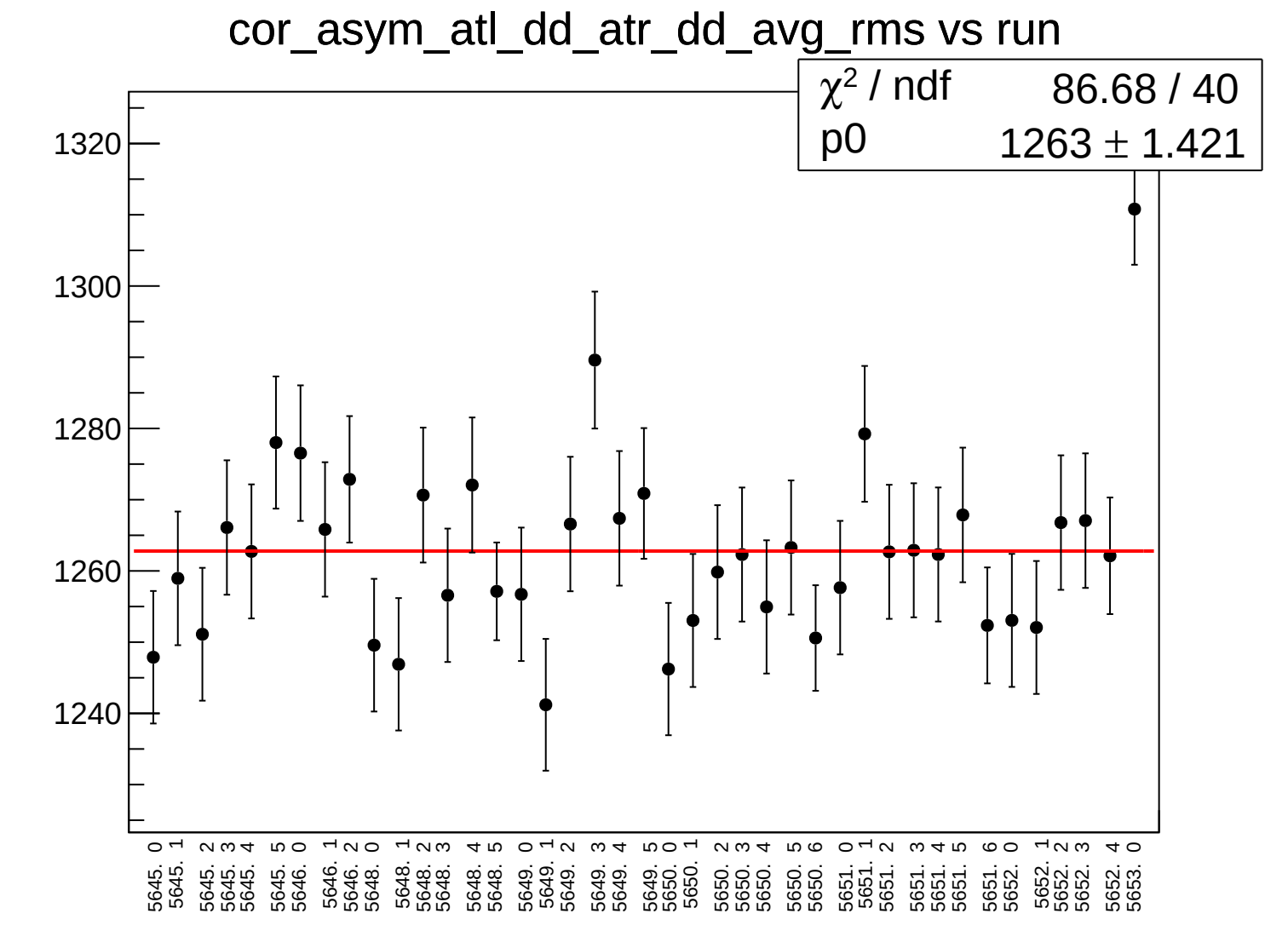

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.788
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

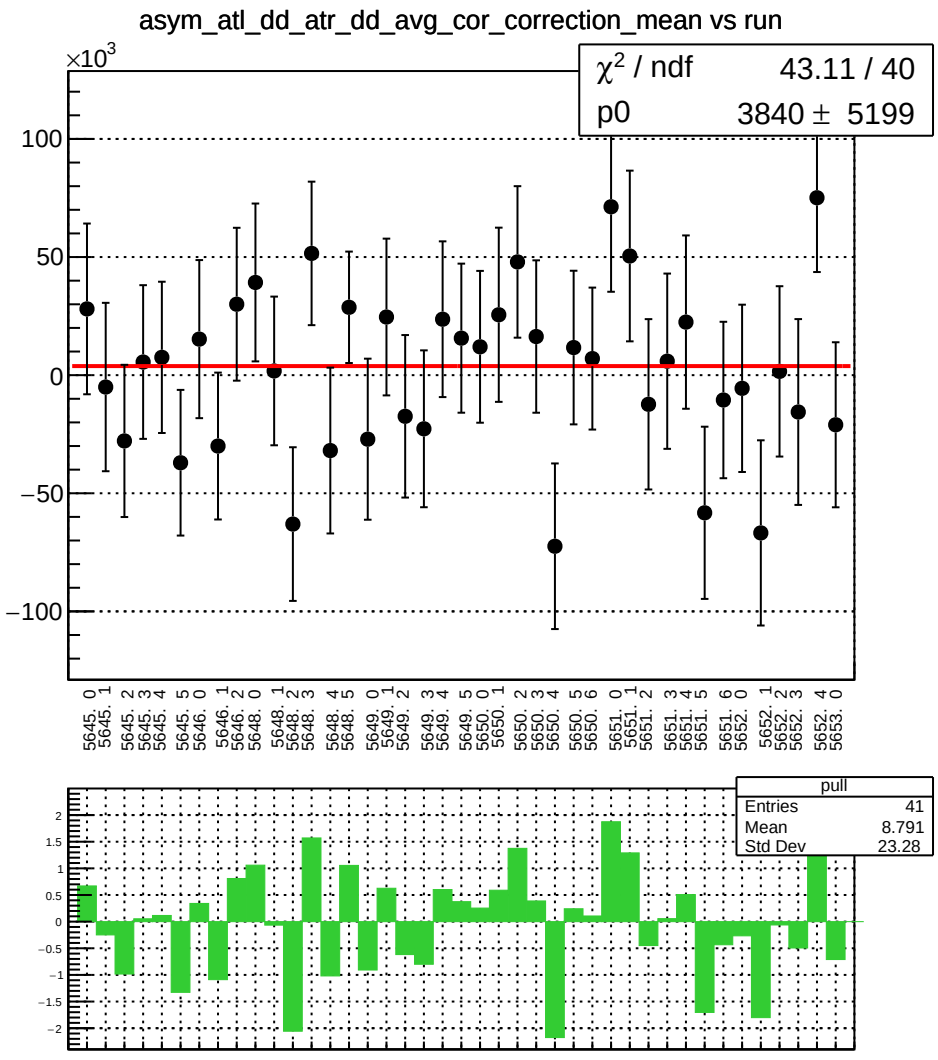

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

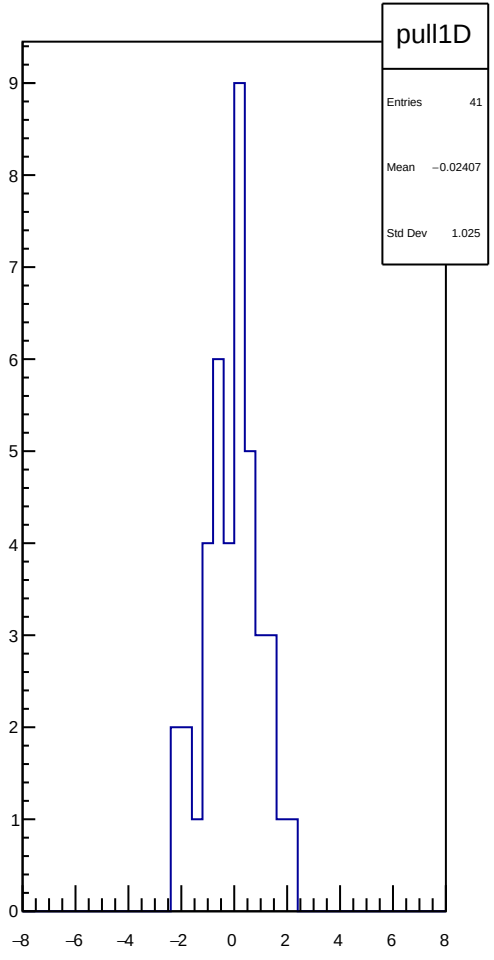

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

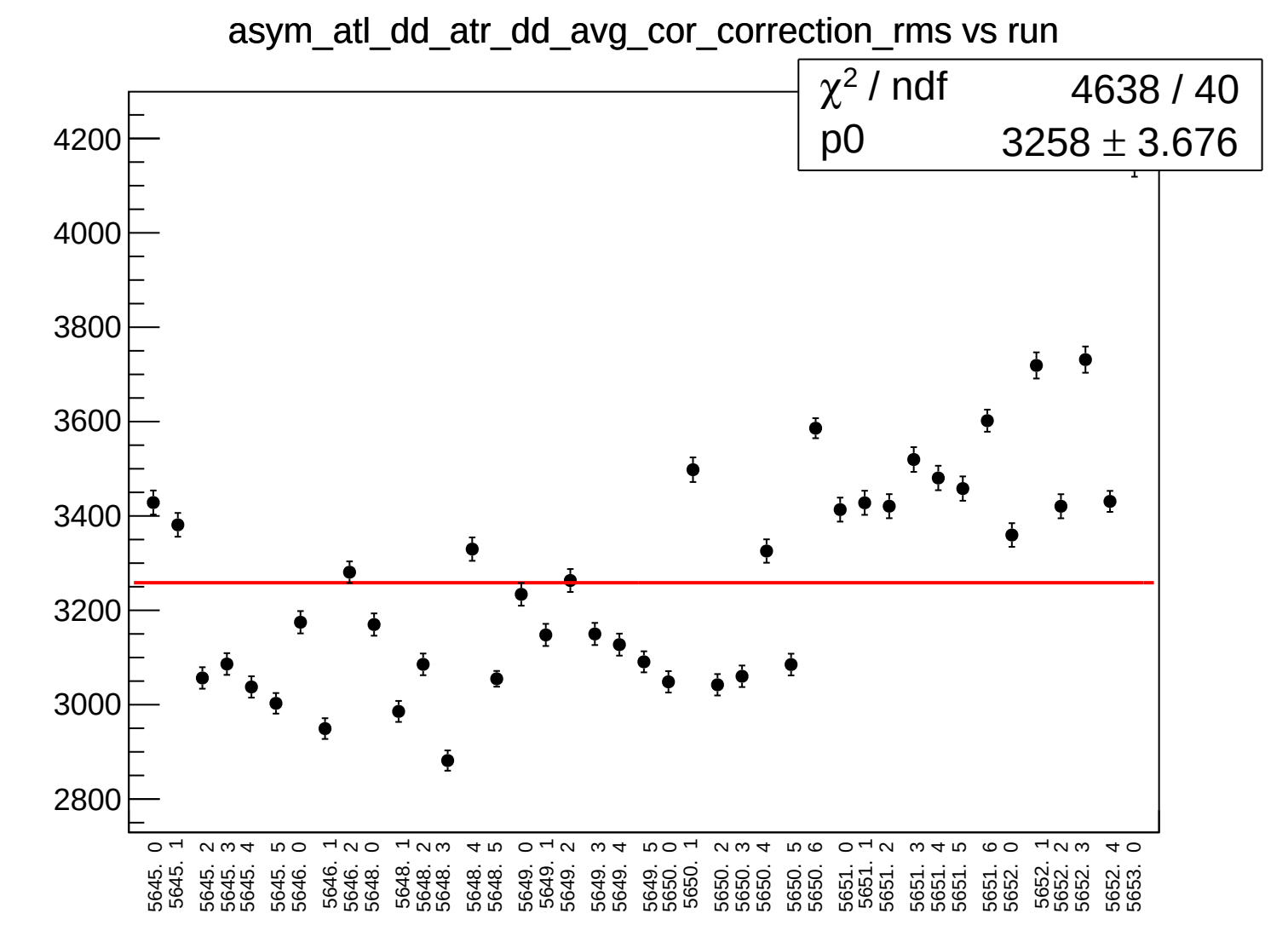

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 223
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

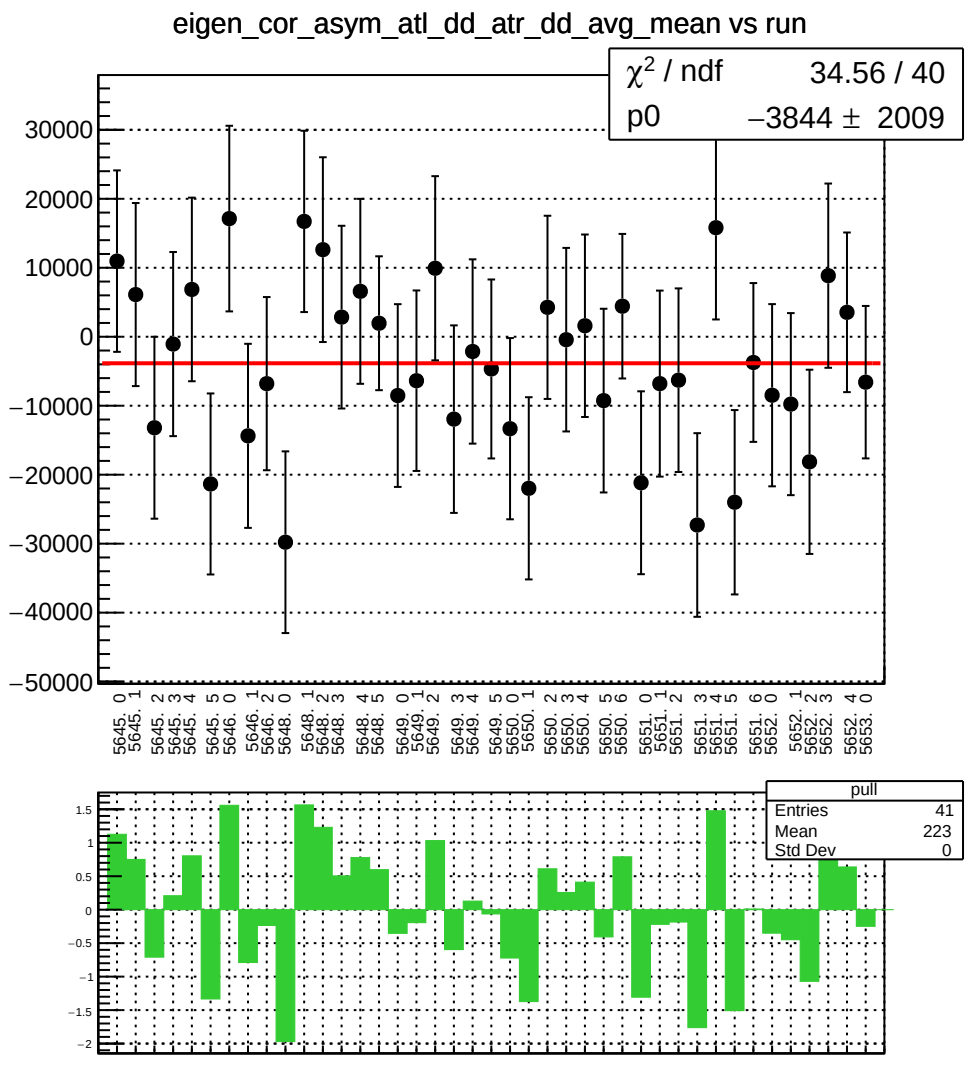

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

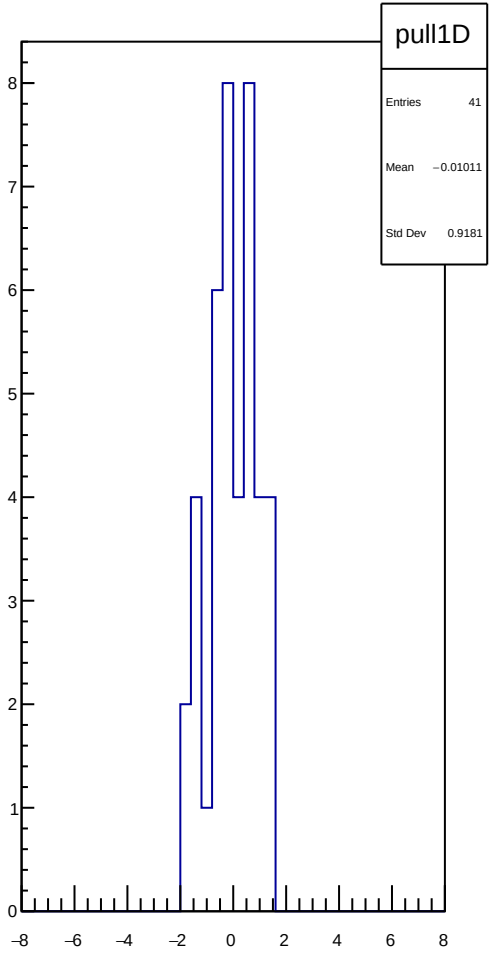

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

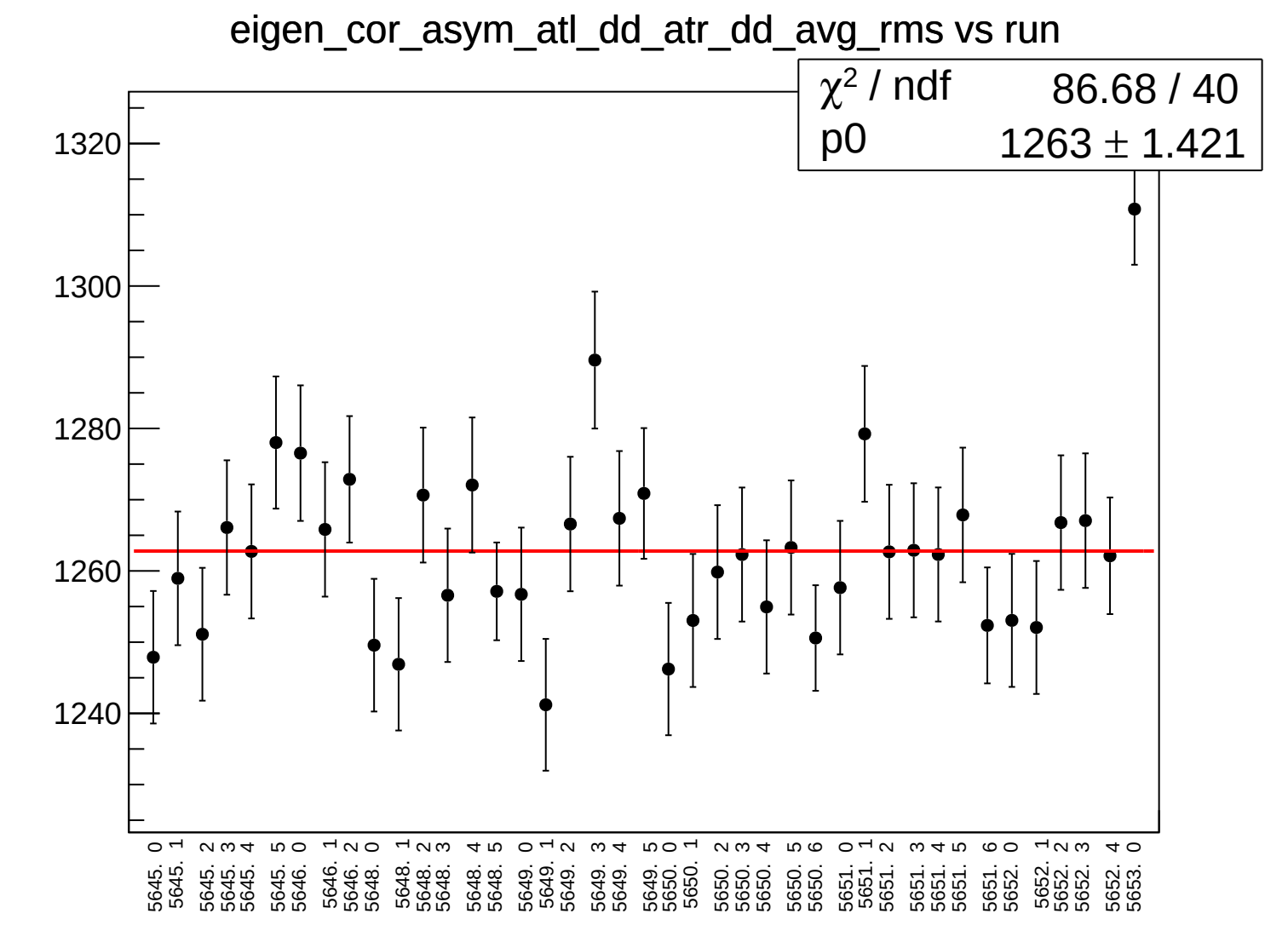

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.791
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

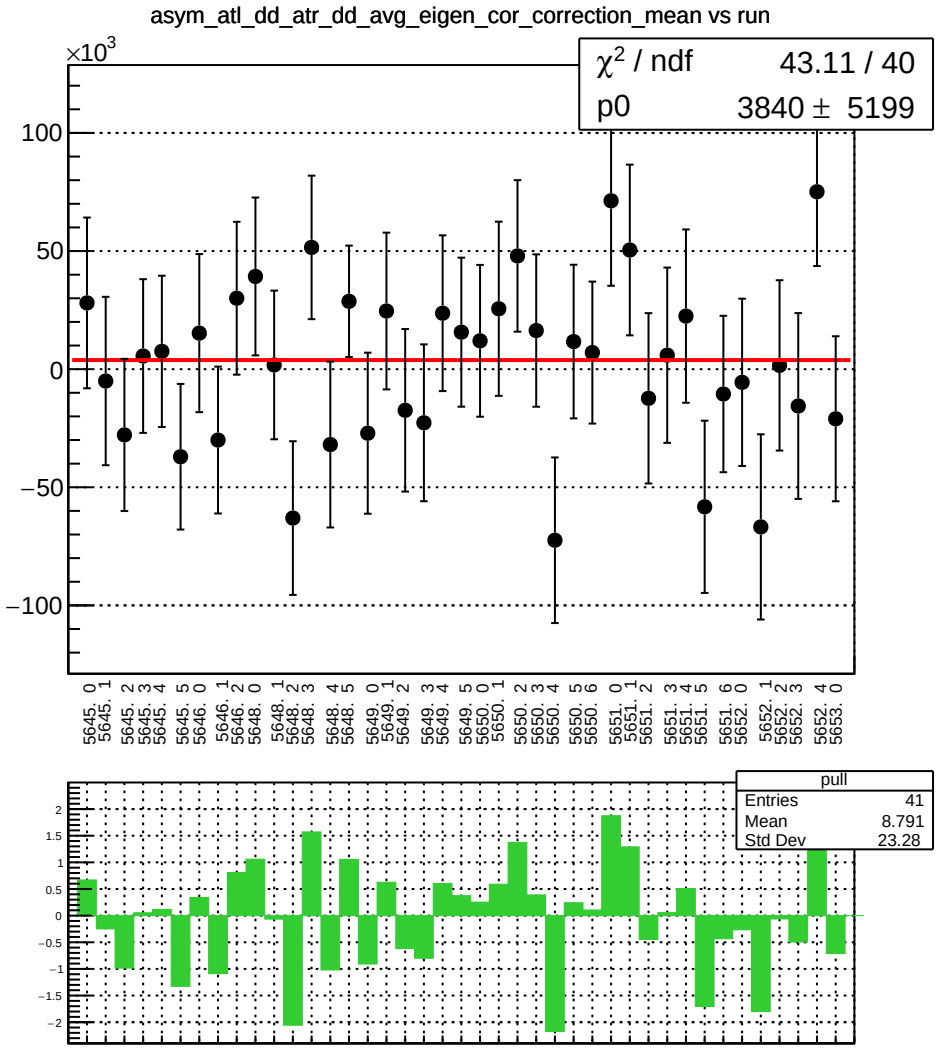

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

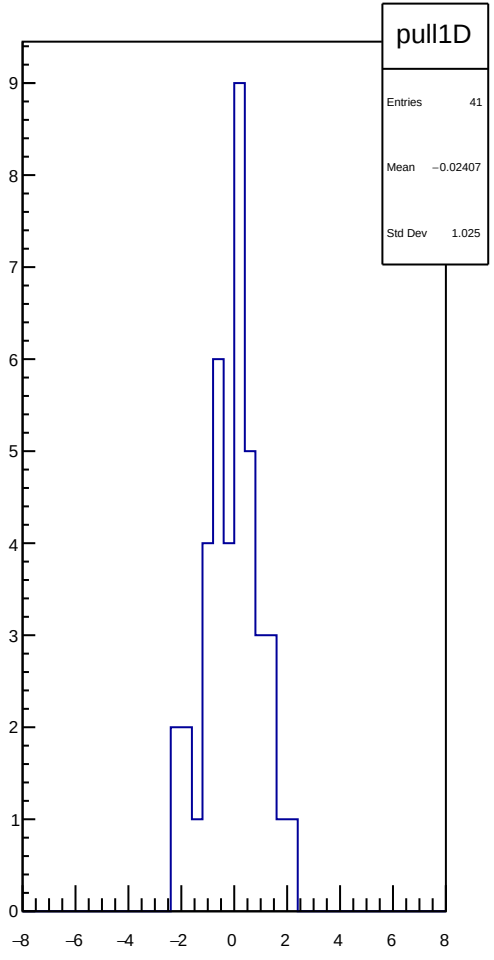

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

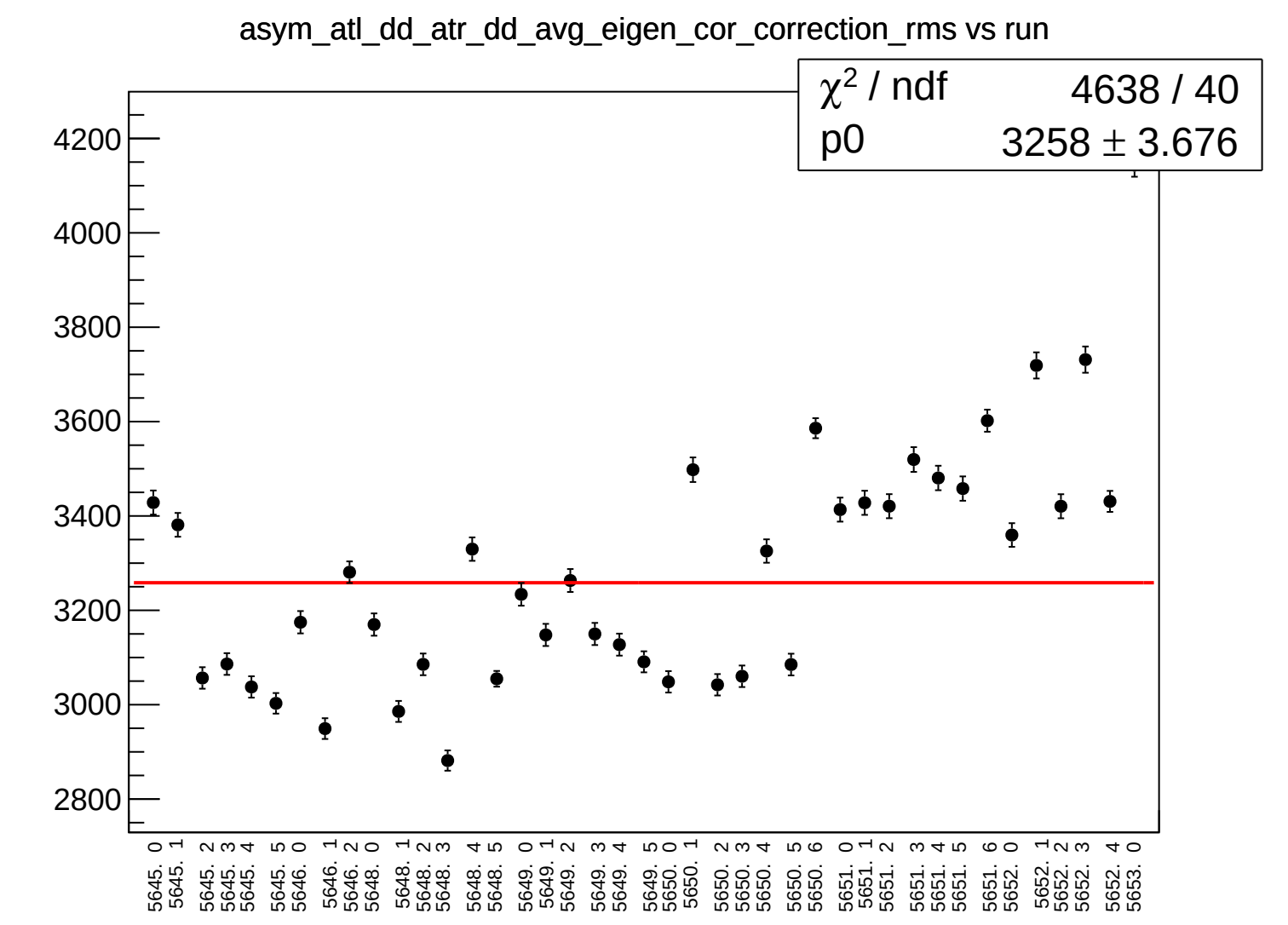

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 223
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

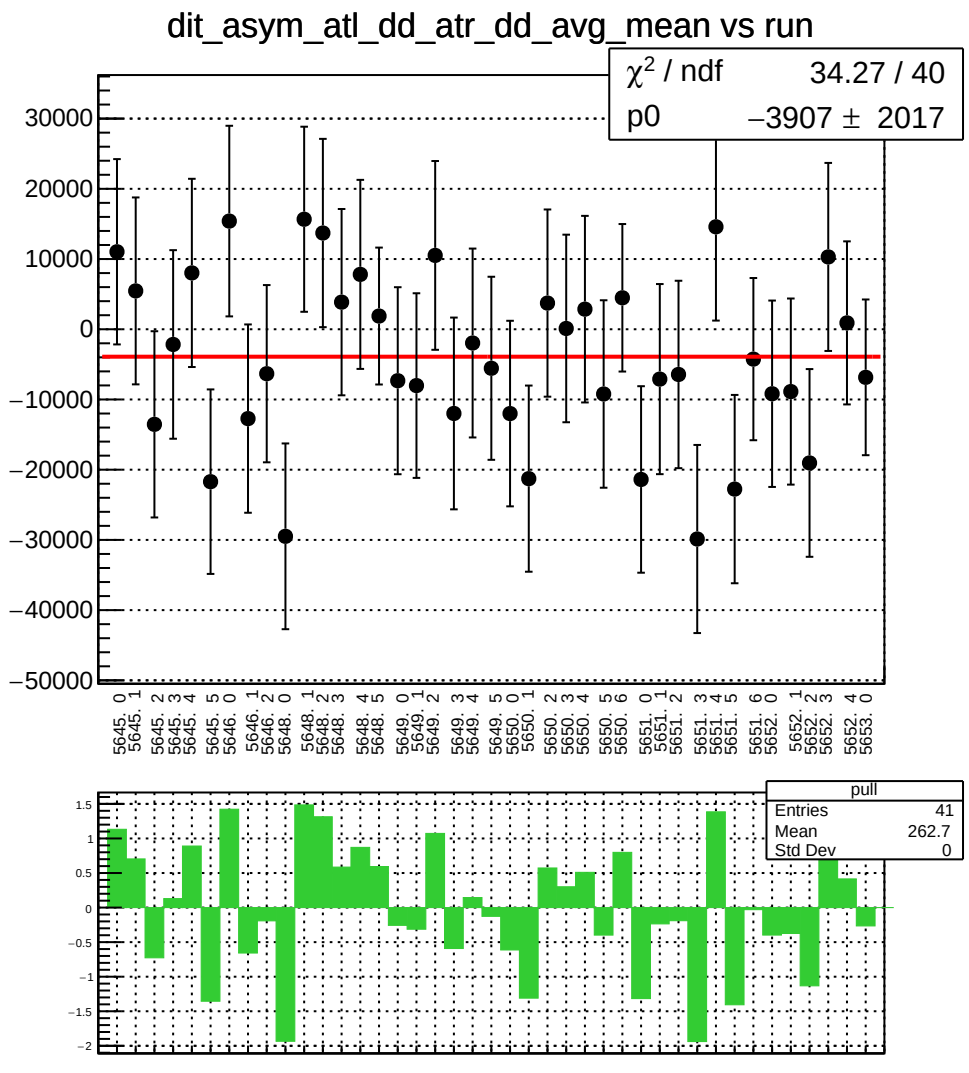

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

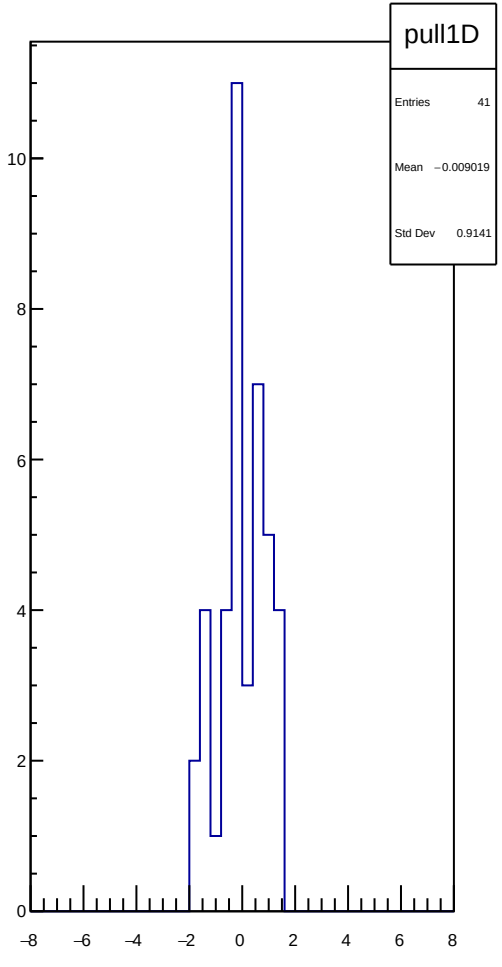

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

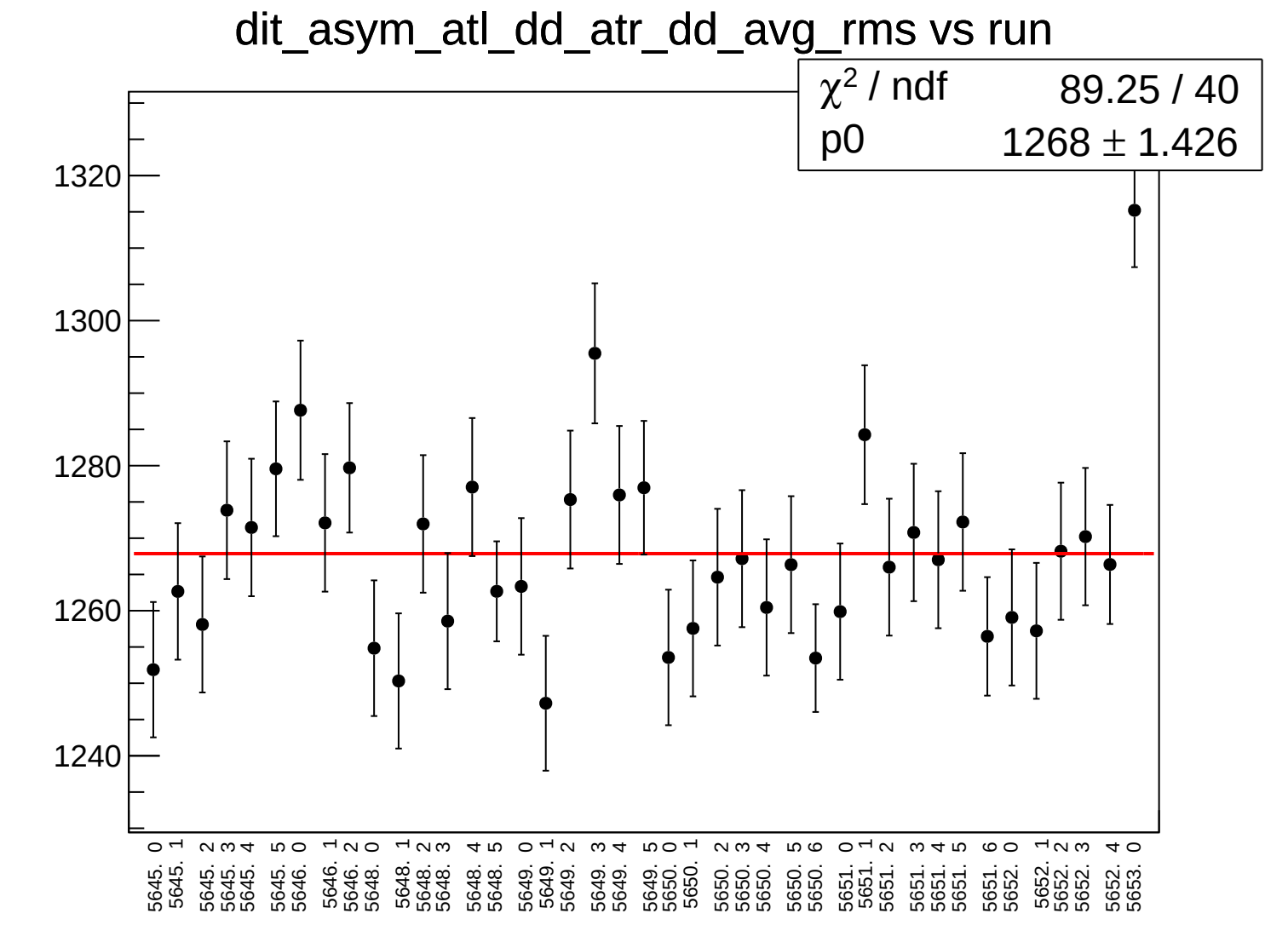

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.791
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

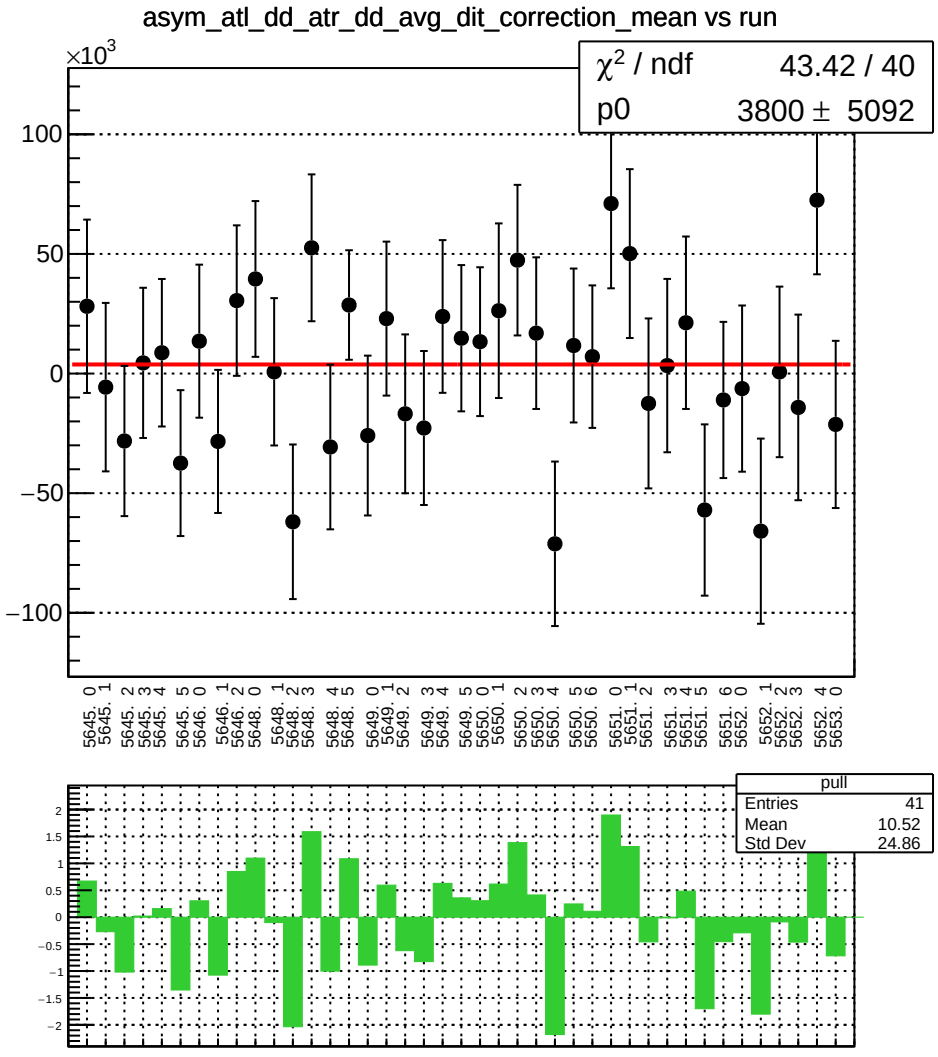

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

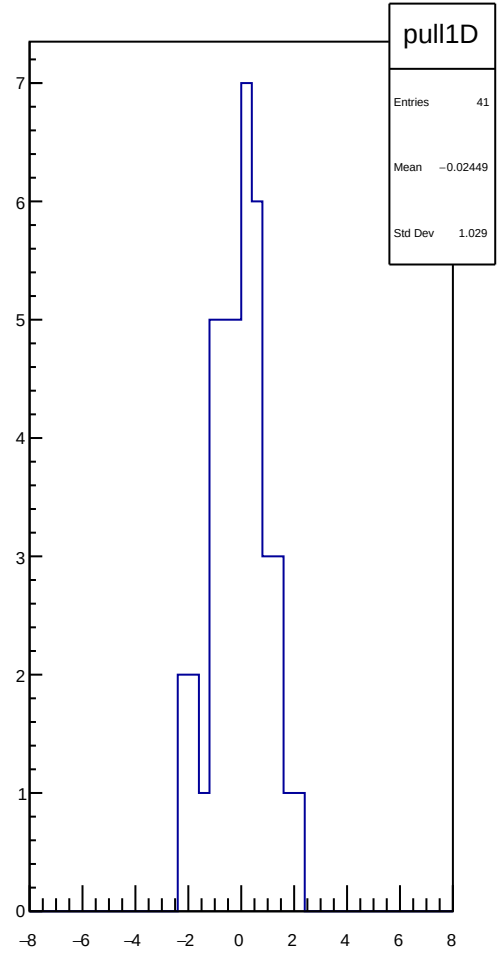

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

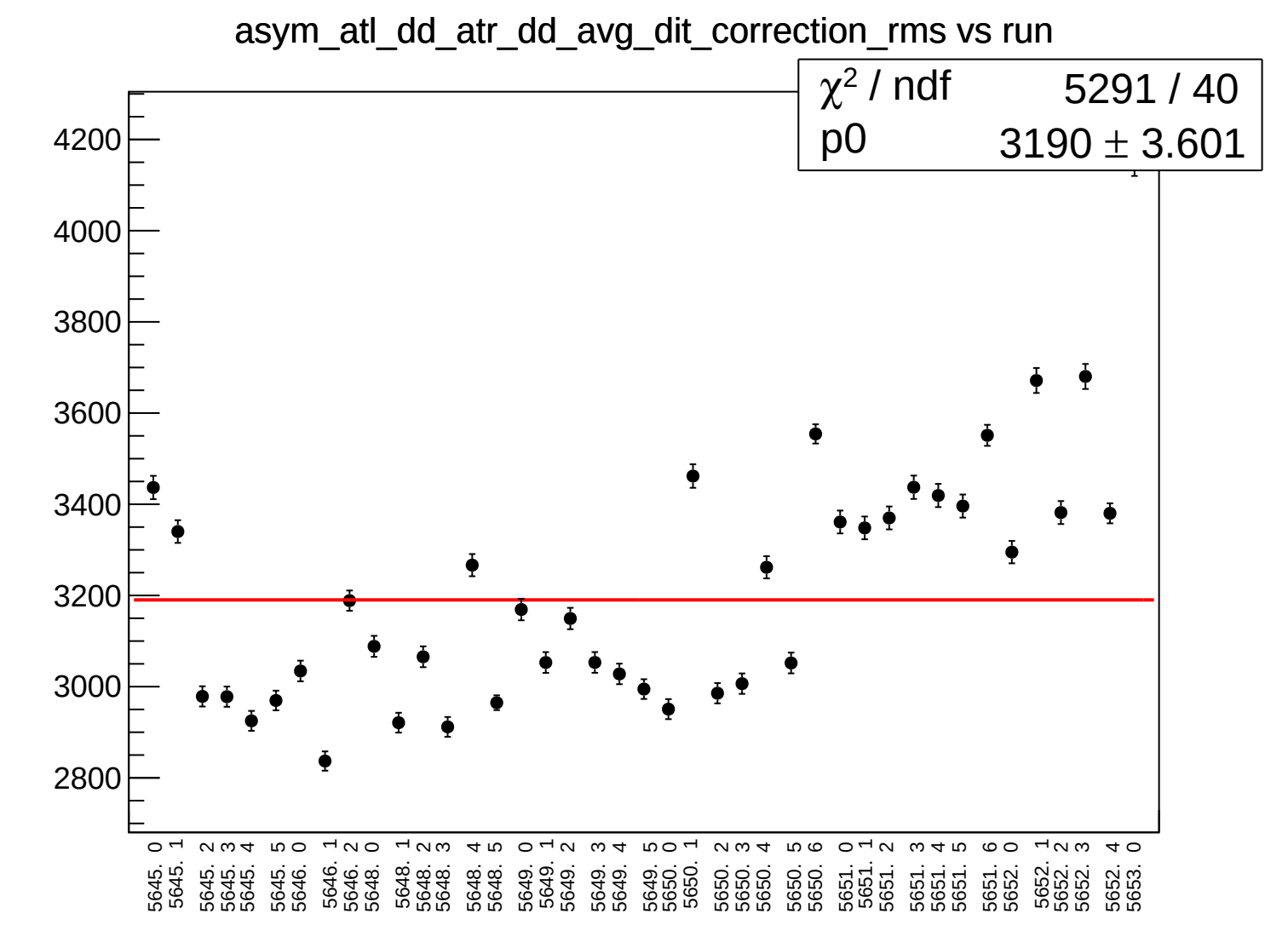

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.27 / 40
p0 −3907 ± 2017
pull
Entries 41
Mean 262.7
Std Dev 0

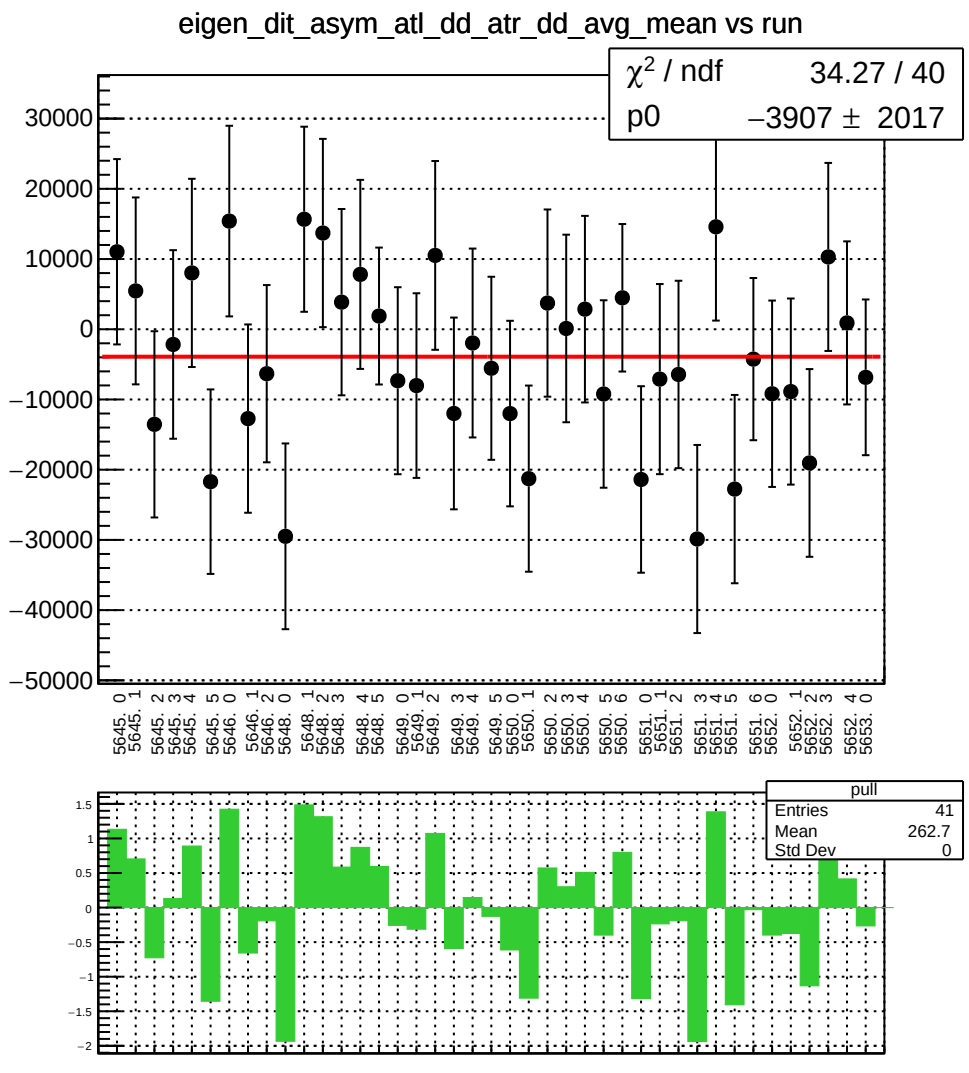

pull1D
Entries 41
Mean −0.009019
Std Dev 0.9141

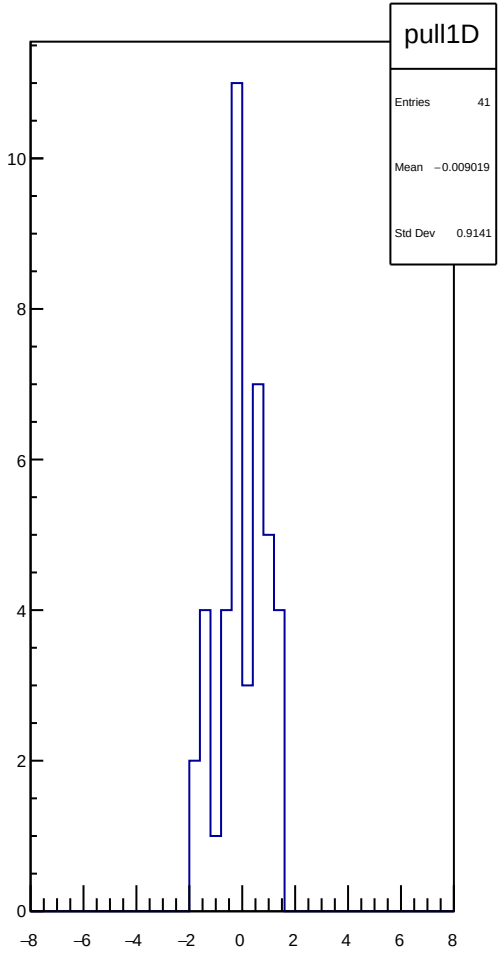

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 89.25 / 40
p0 1268 ± 1.426
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

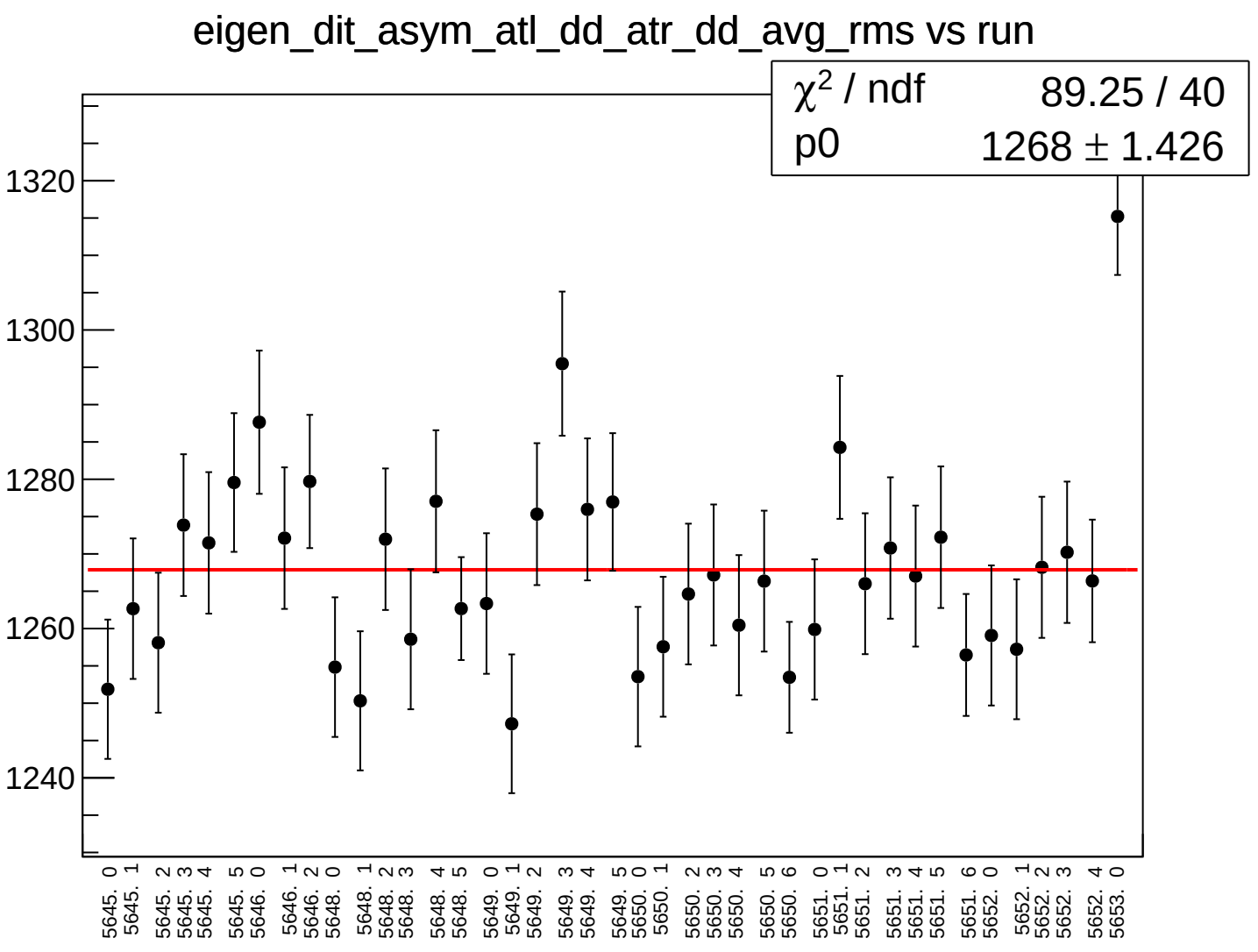

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 43.42 / 40
p0 3800 ± 5092
100
50
0
−50
−100
pull
Entries 41
Mean 10.52
Std Dev 24.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

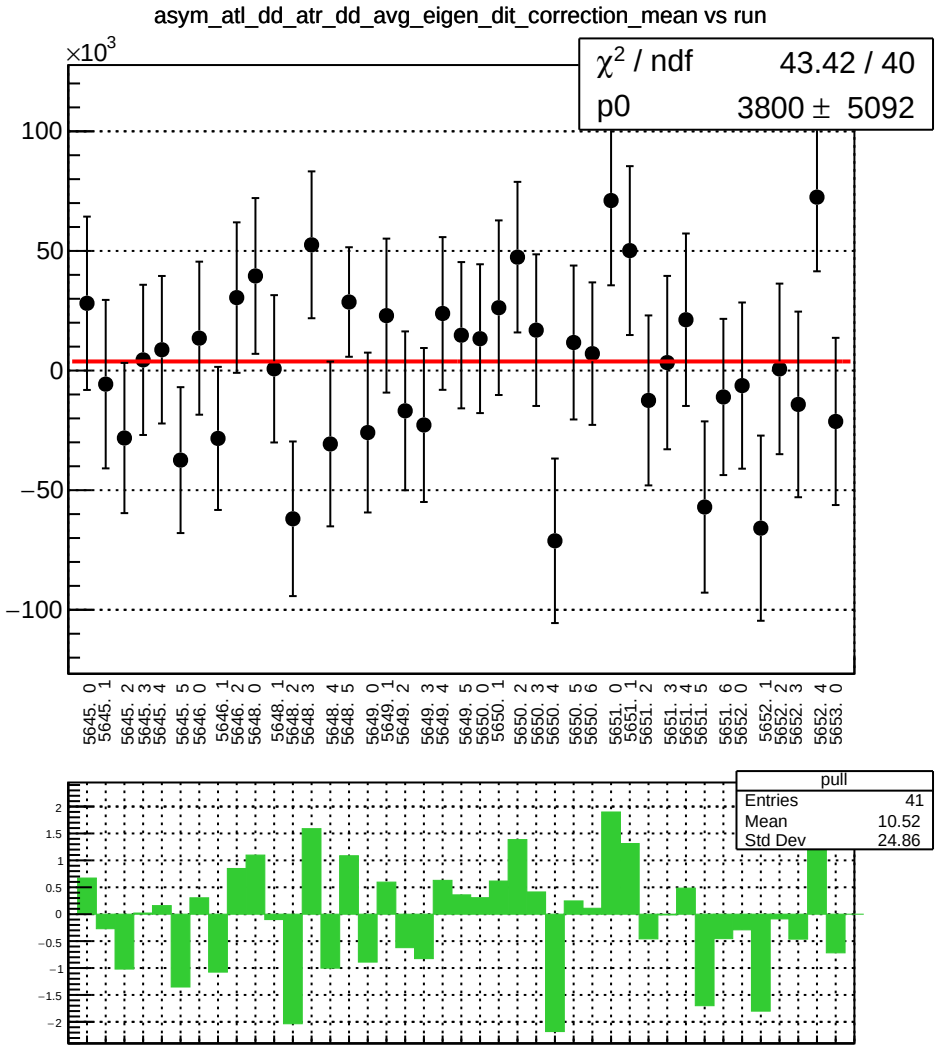

pull1D
Entries 41
Mean −0.02449
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

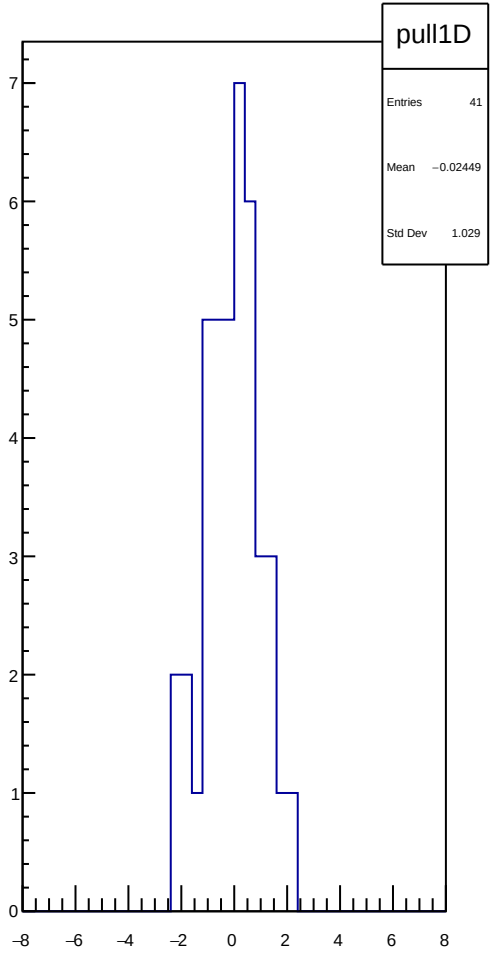

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5291 / 40
p0 3190 ± 3.601
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

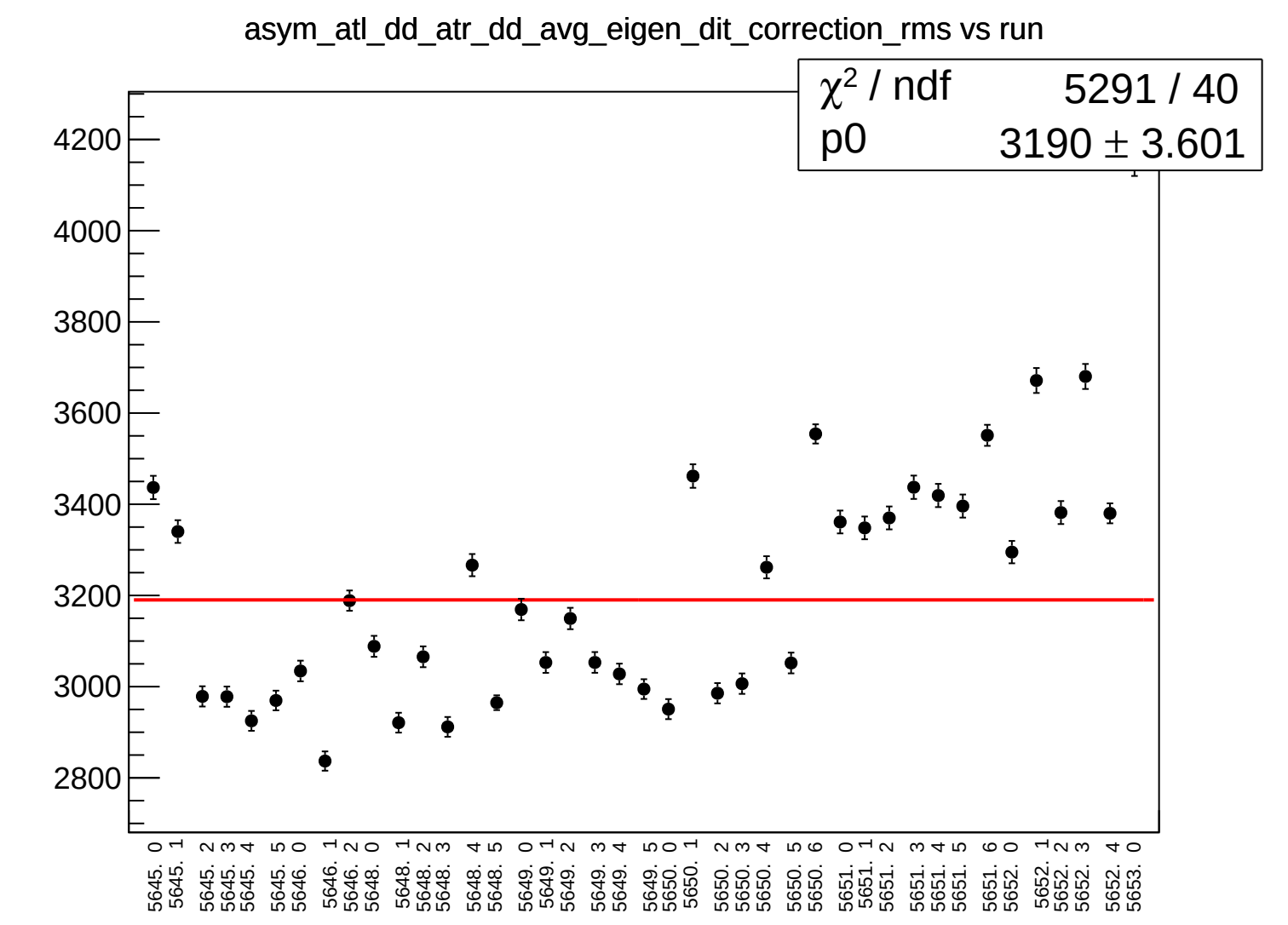

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 34.27 / 40
p0 −3907 ± 2017
pull
Entries 41
Mean 262.7
Std Dev 0

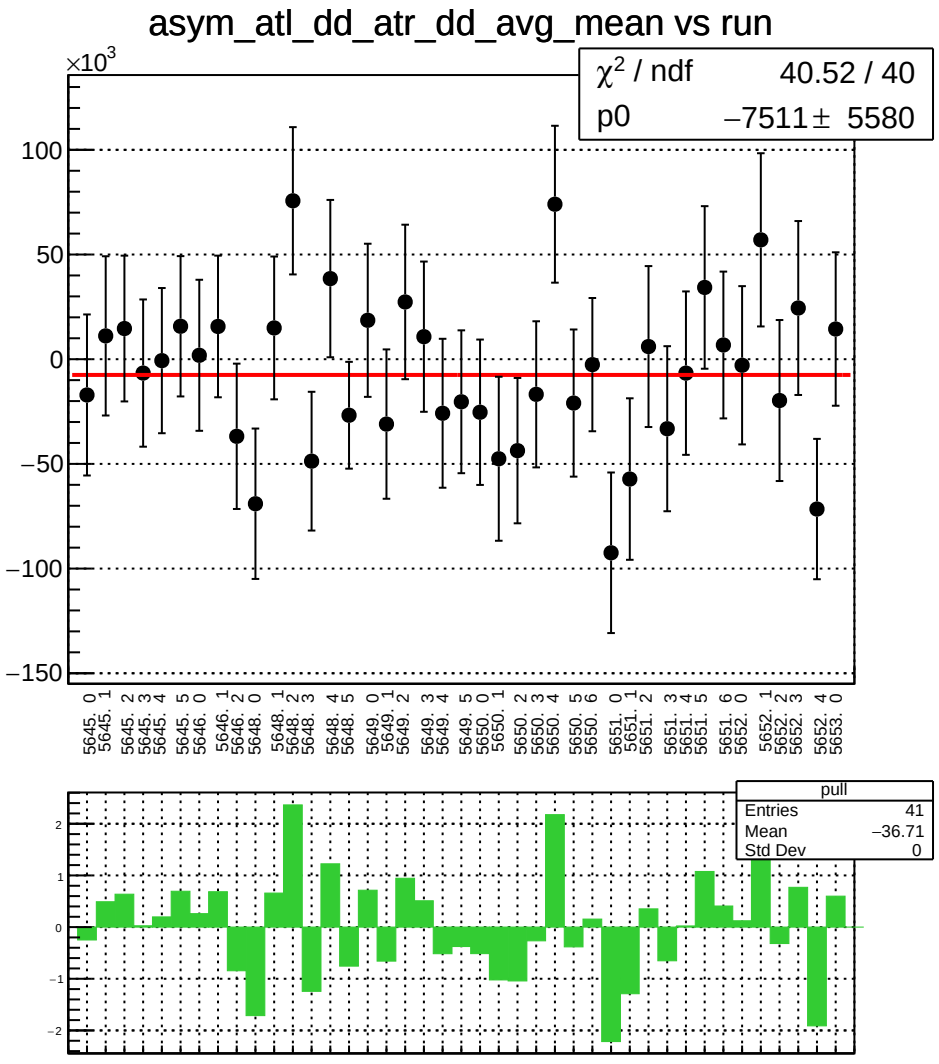

pull1D
Entries 41
Mean −0.009019
Std Dev 0.9141

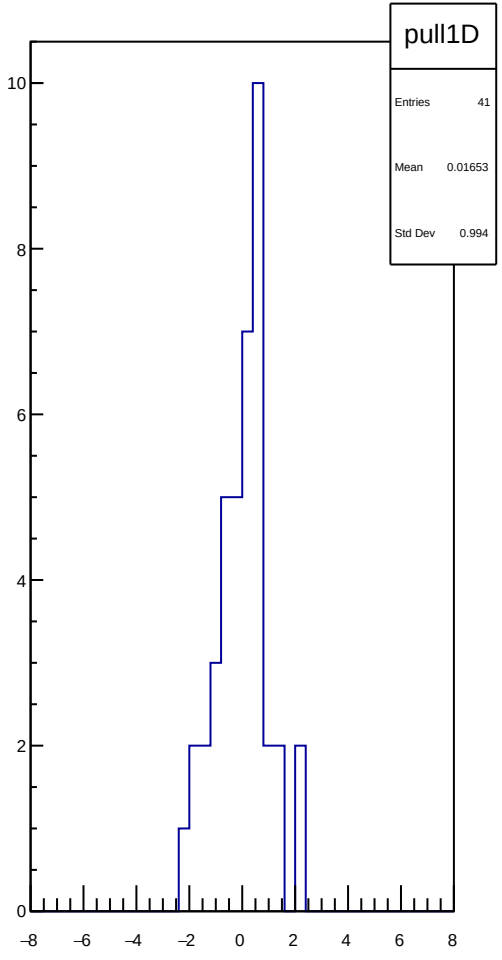

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 89.25 / 40
p0 1268 ± 1.426
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

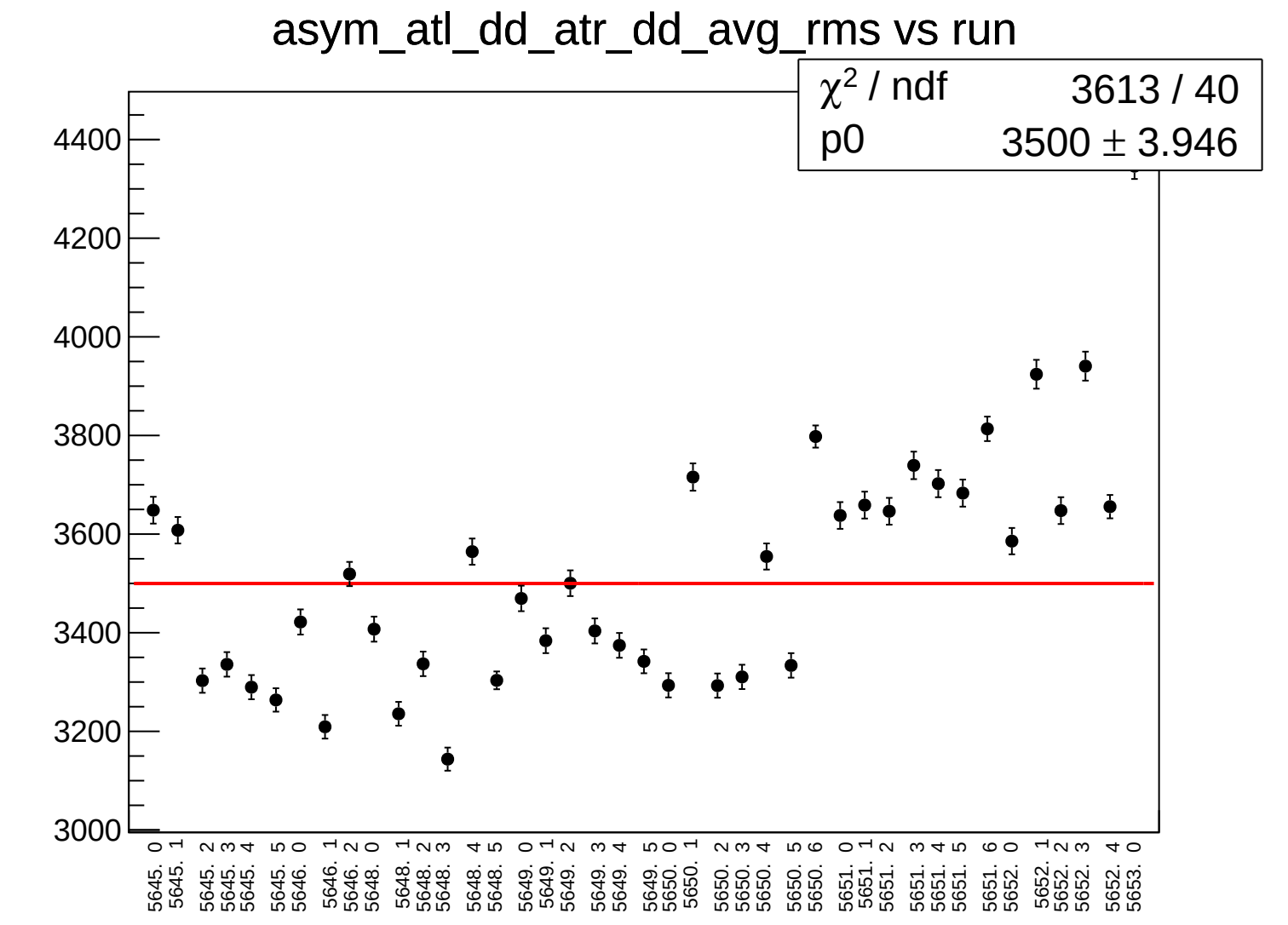

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.42 / 40
p0 3800 ± 5092
100
50
0
−50
−100
pull
Entries 41
Mean 10.52
Std Dev 24.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

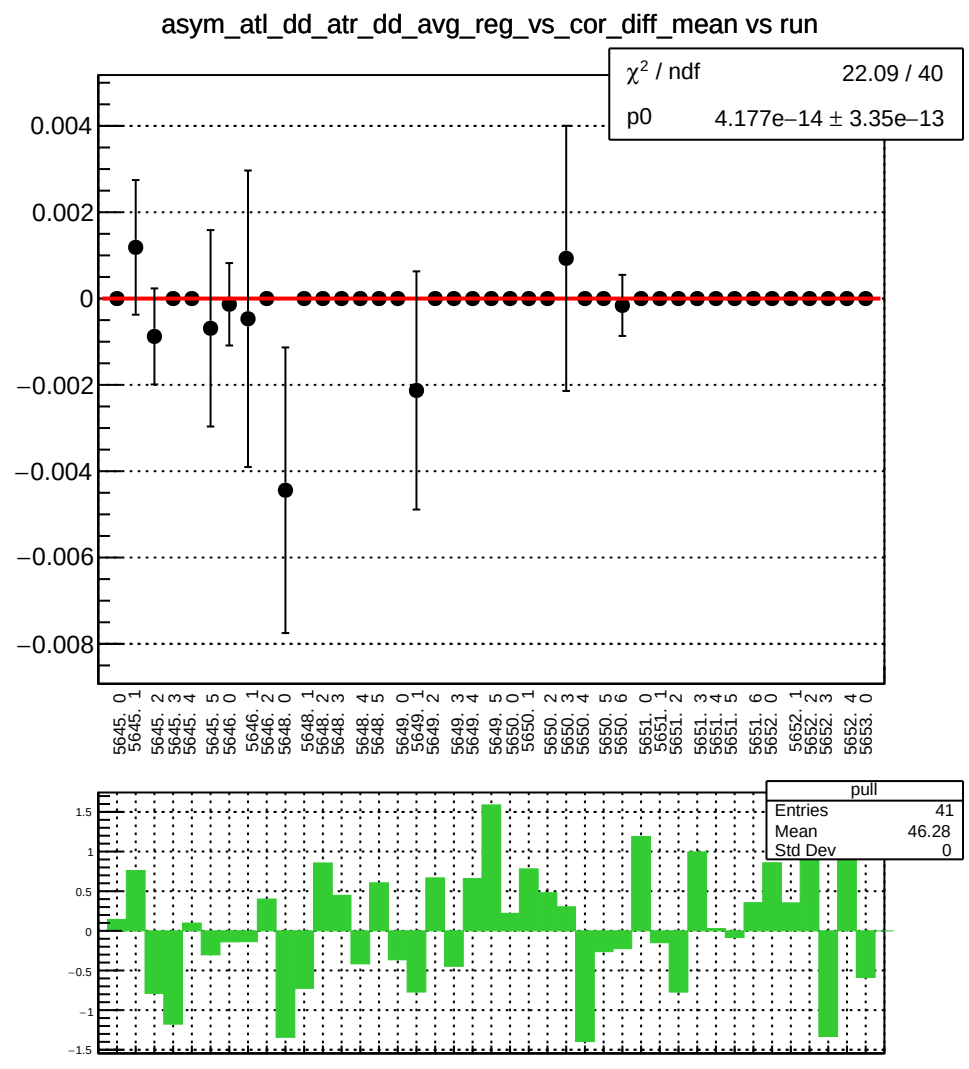

pull1D
Entries 41
Mean −0.02449
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

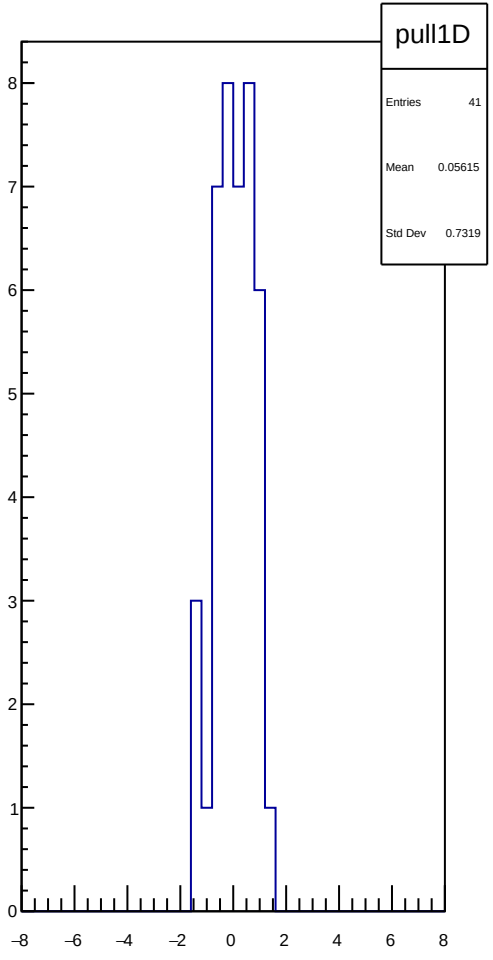

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5291 / 40
p0 3190 ± 3.601
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

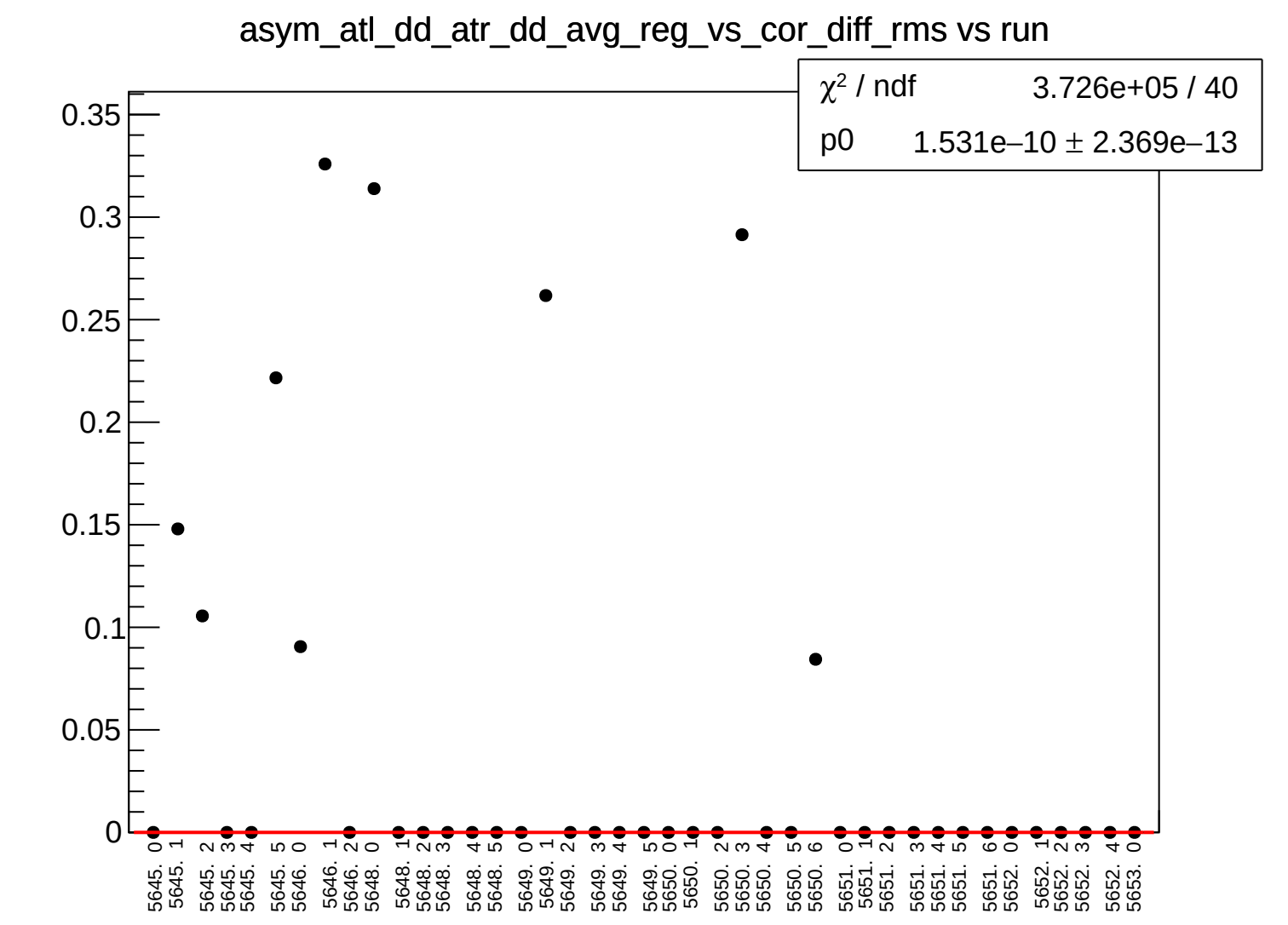

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 40.52 / 40
p0 −7511 ± 5580
100
50
0
−50
−100
−150
pull
Entries 41
Mean −36.71
Std Dev 0
2
1
0
−1
−2

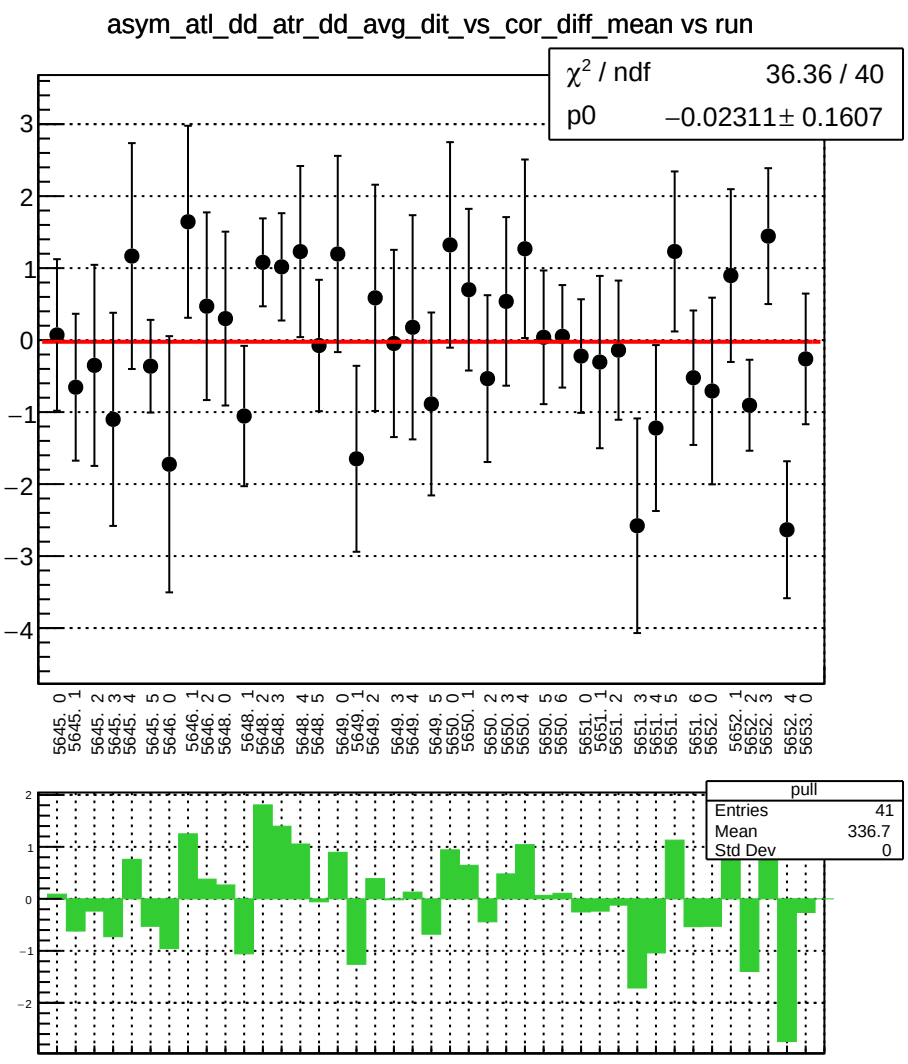

pull1D
Entries 41
Mean 0.01653
Std Dev 0.994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

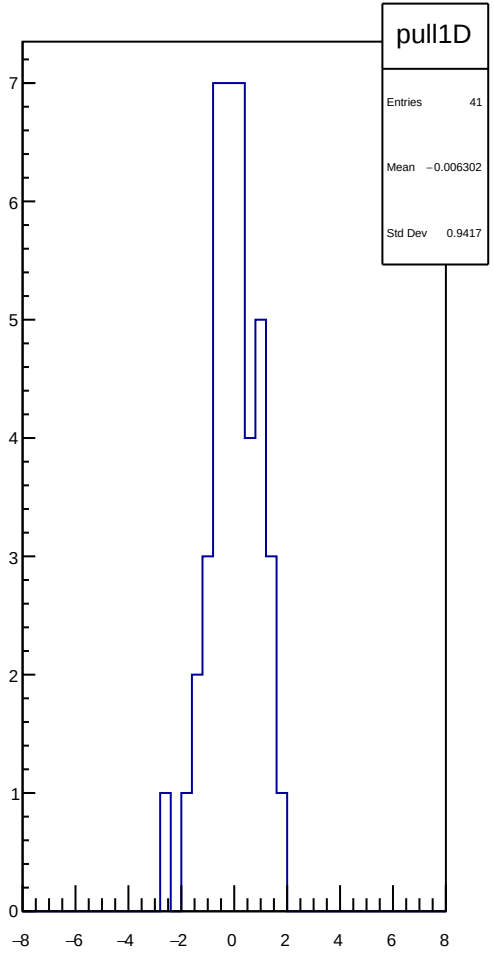

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3613 / 40
p0 3500 ± 3.946
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

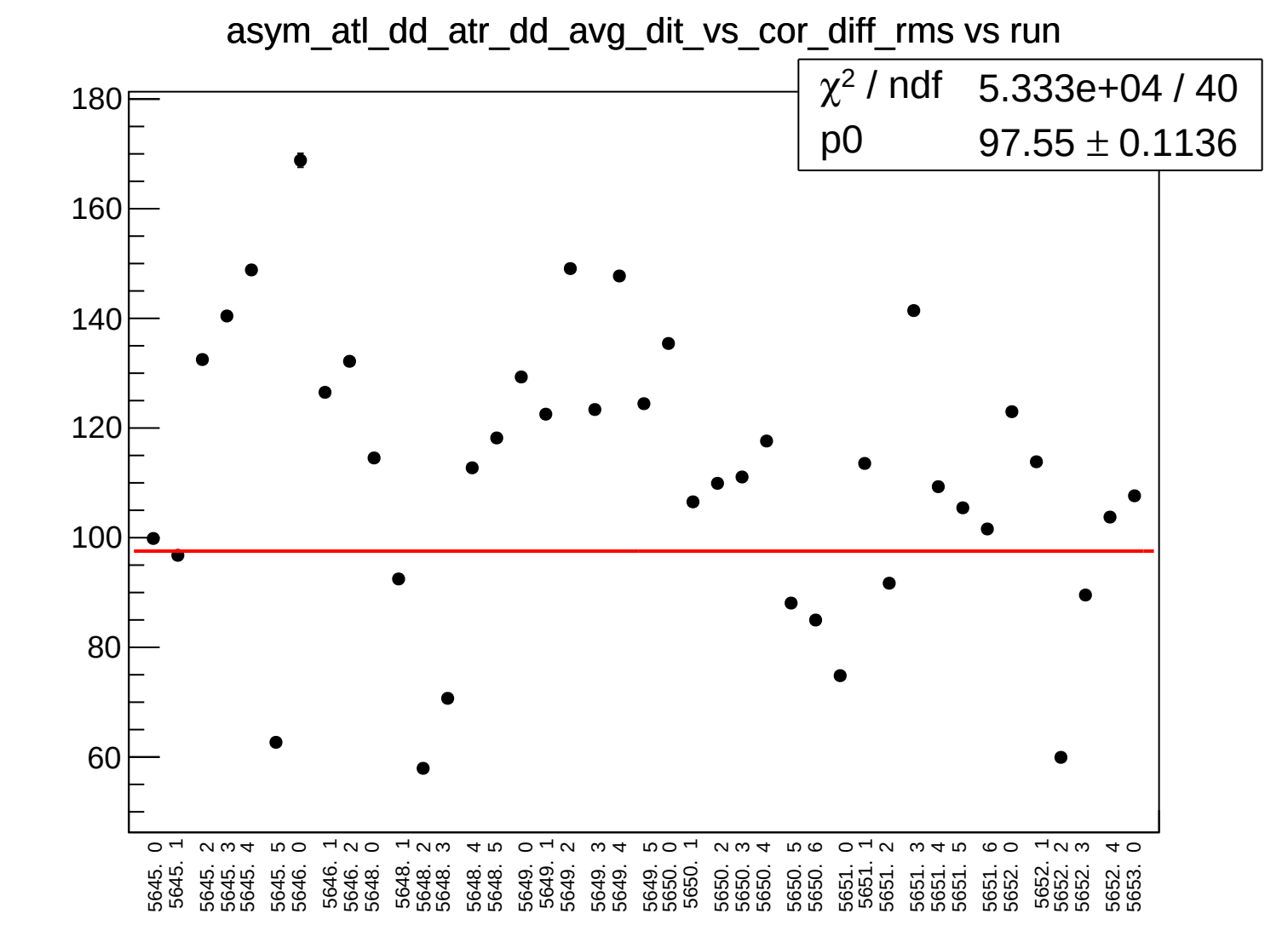

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 22.09 / 40
p0 4.177e−14 ± 3.35e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 46.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

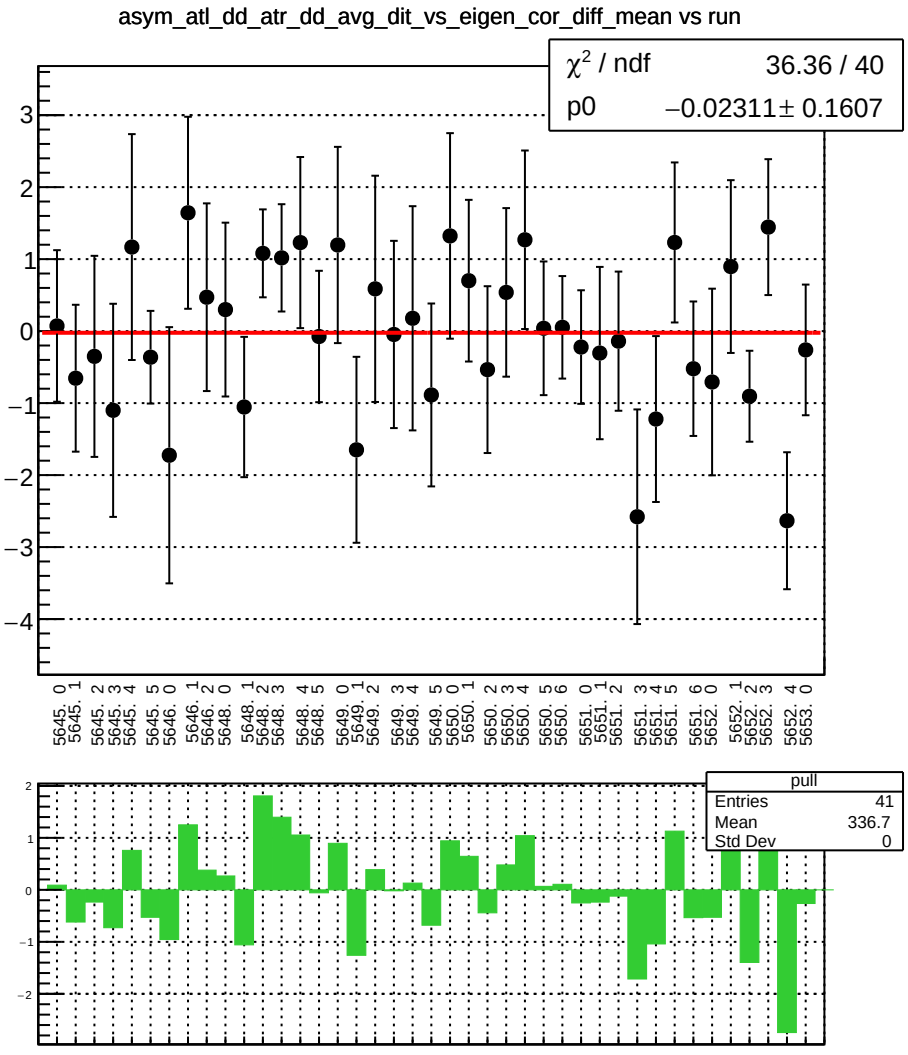

pull1D
Entries 41
Mean 0.05615
Std Dev 0.7319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

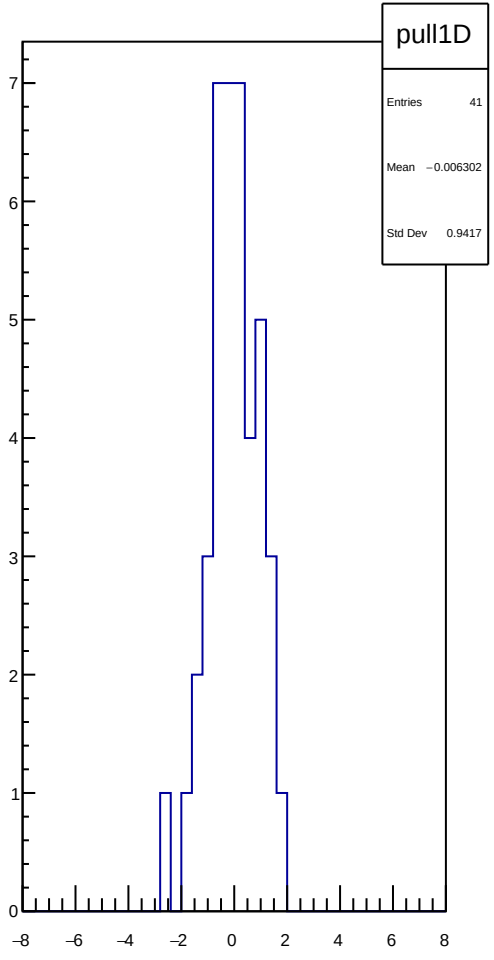

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.726e+05 / 40
p0 1.531e−10 ± 2.369e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

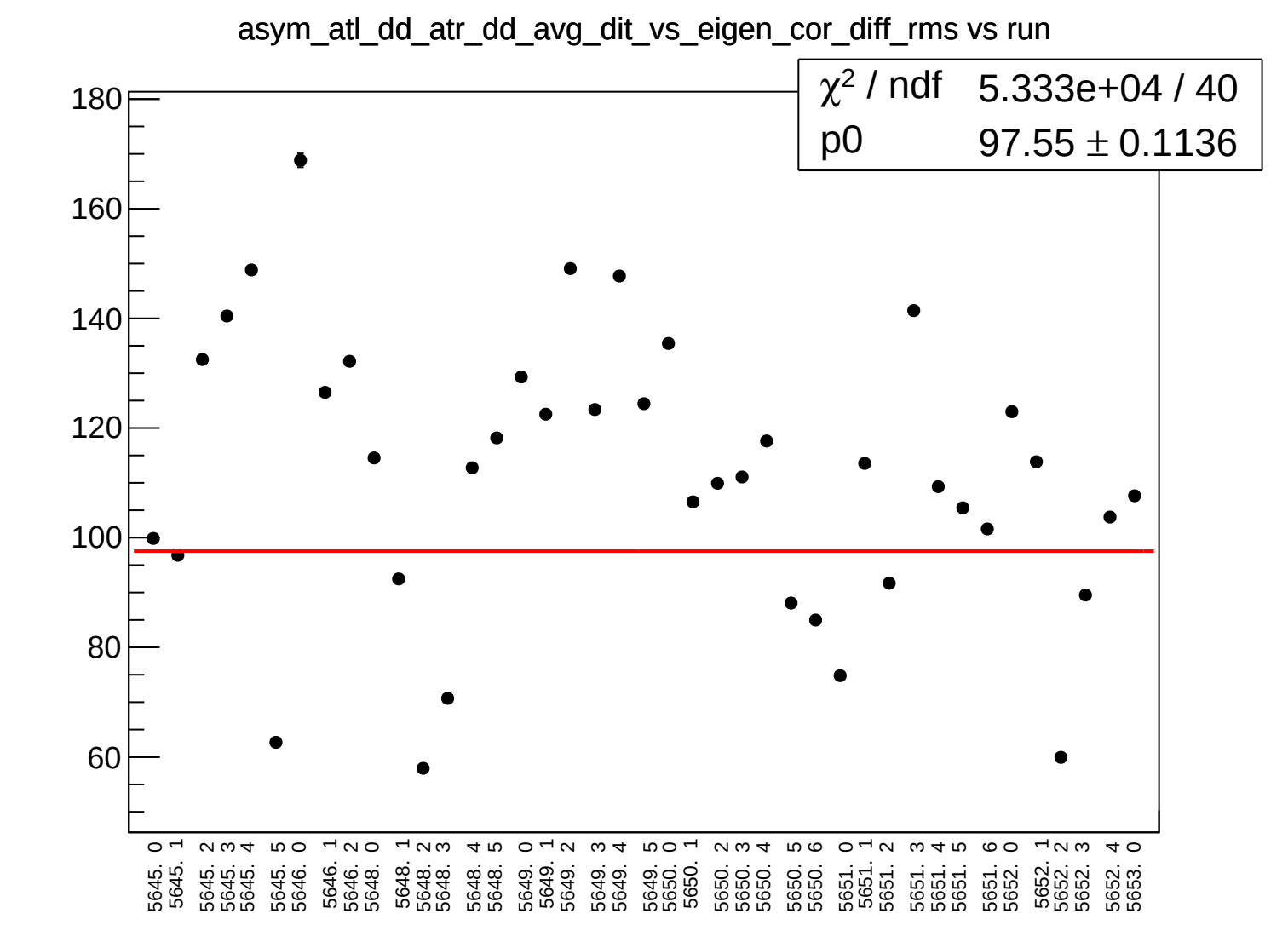

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.02311± 0.1607
pull
Entries 41
Mean 336.7
Std Dev 0

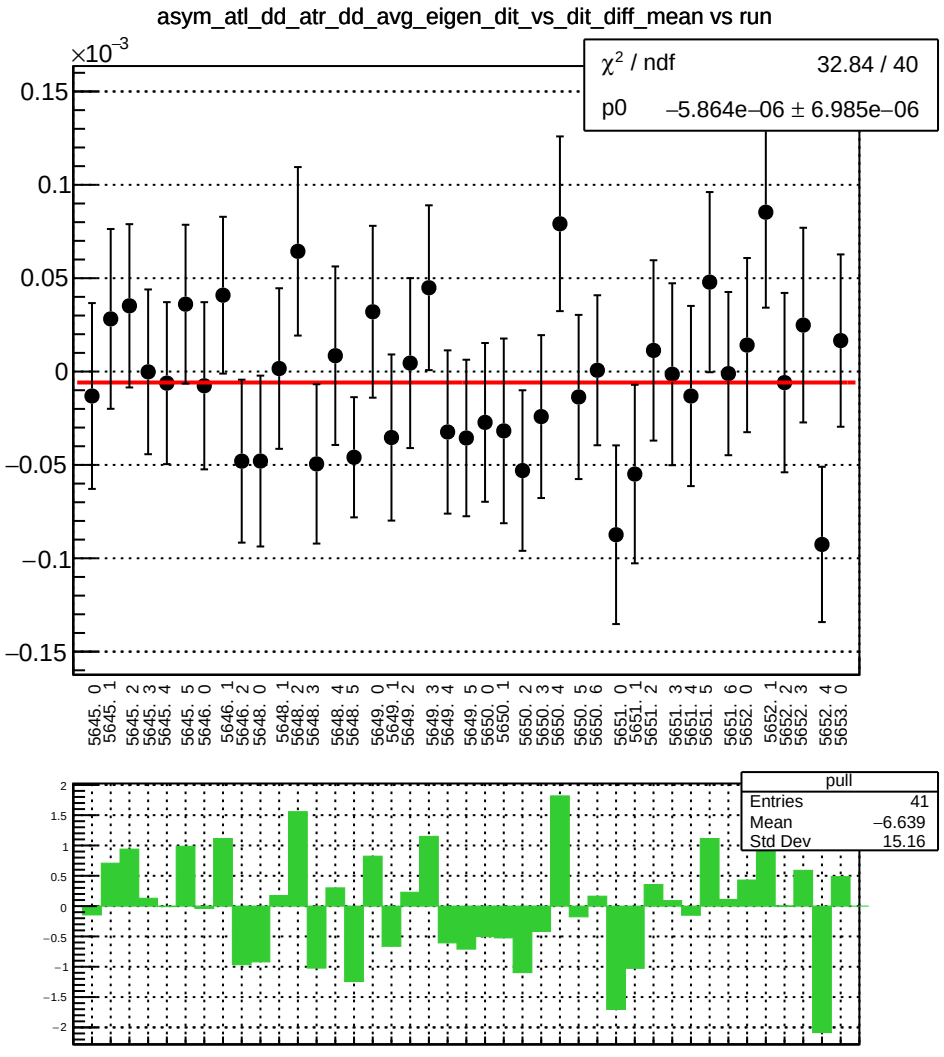

pull1D
Entries 41
Mean −0.006302
Std Dev 0.9417

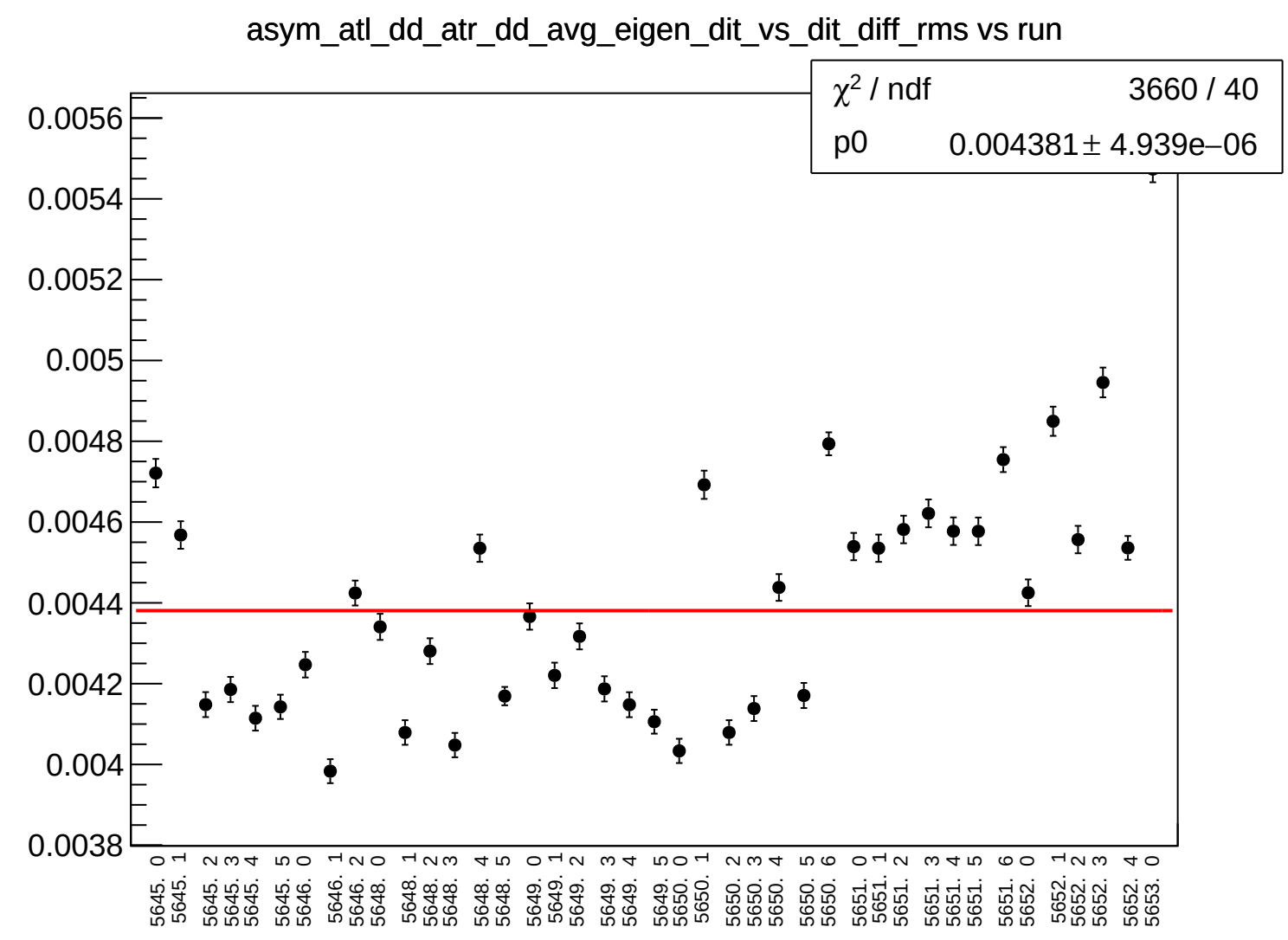

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

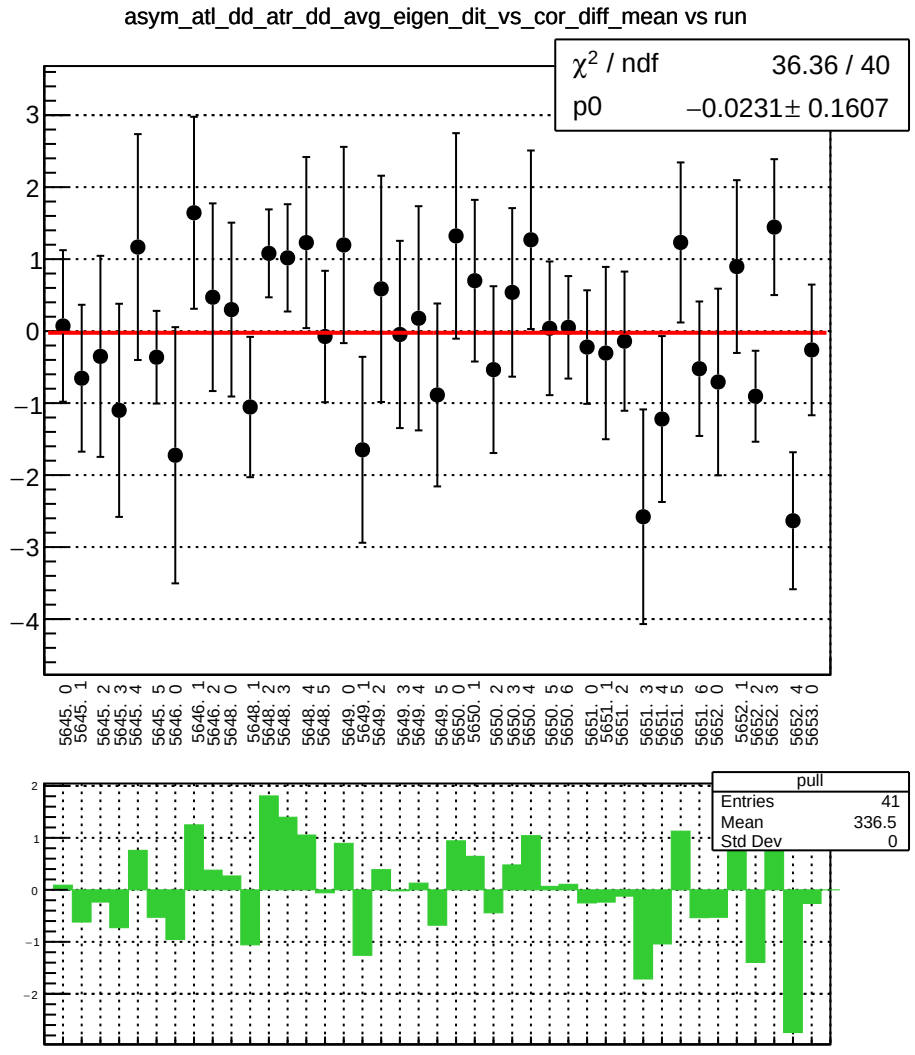

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.02311 ± 0.1607
pull
Entries 41
Mean 336.7
Std Dev 0

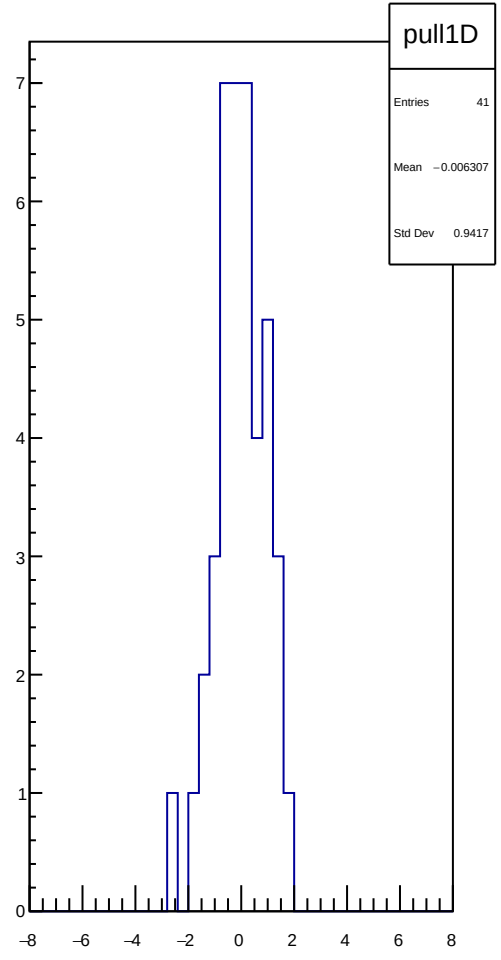

pull1D
Entries 41
Mean −0.006302
Std Dev 0.9417

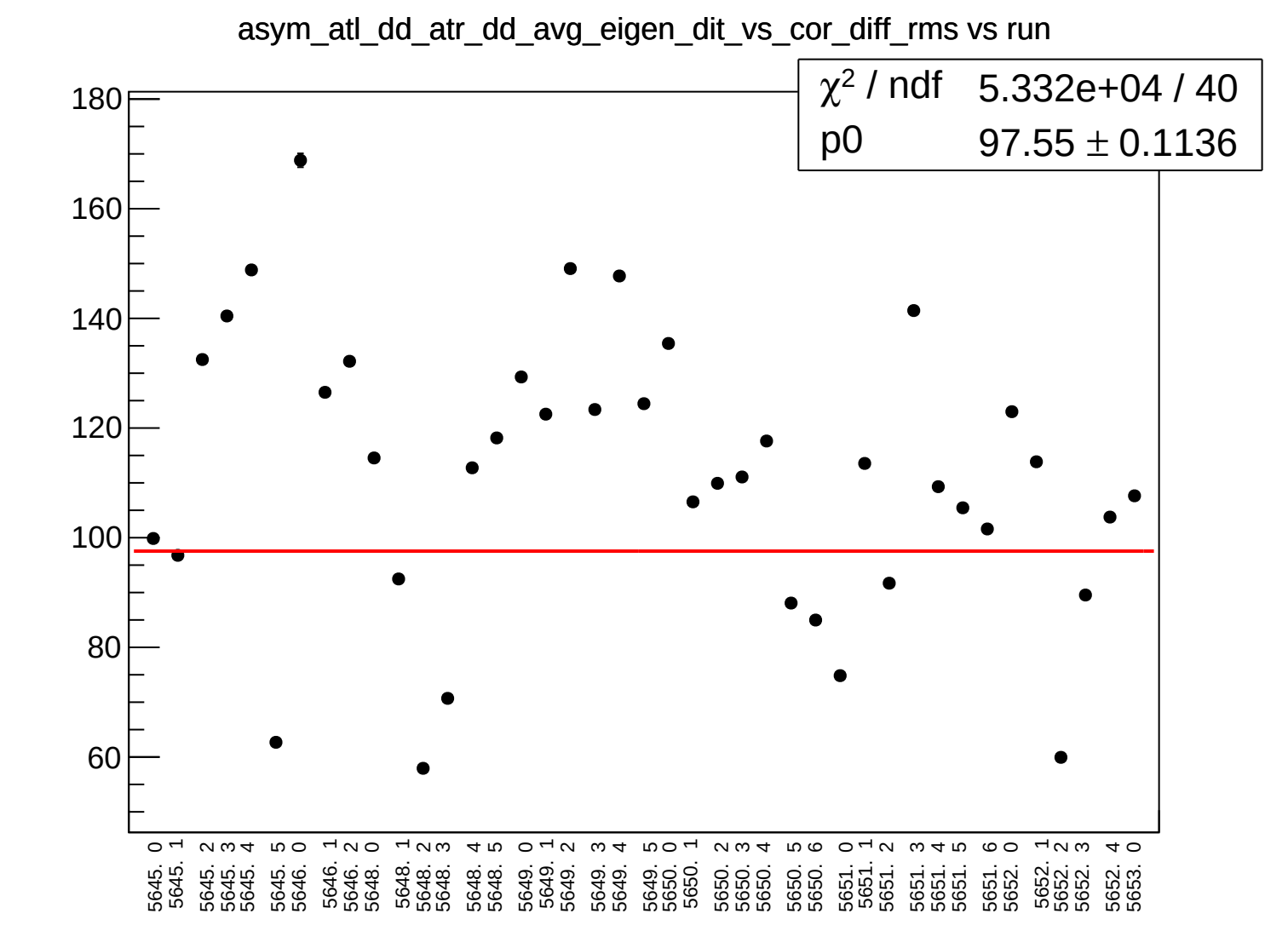

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

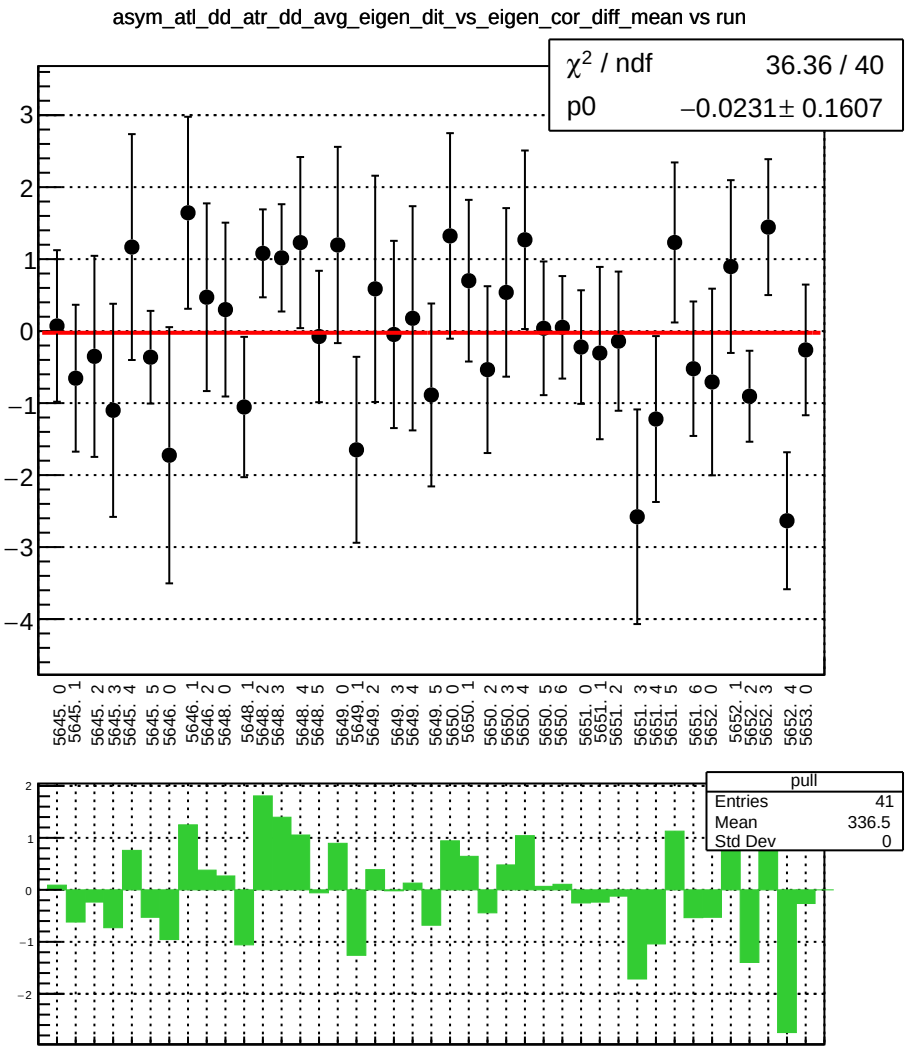

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.84 / 40
p0 −5.864e−06 ± 6.985e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6.639
Std Dev 15.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02549
Std Dev 0.8946
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

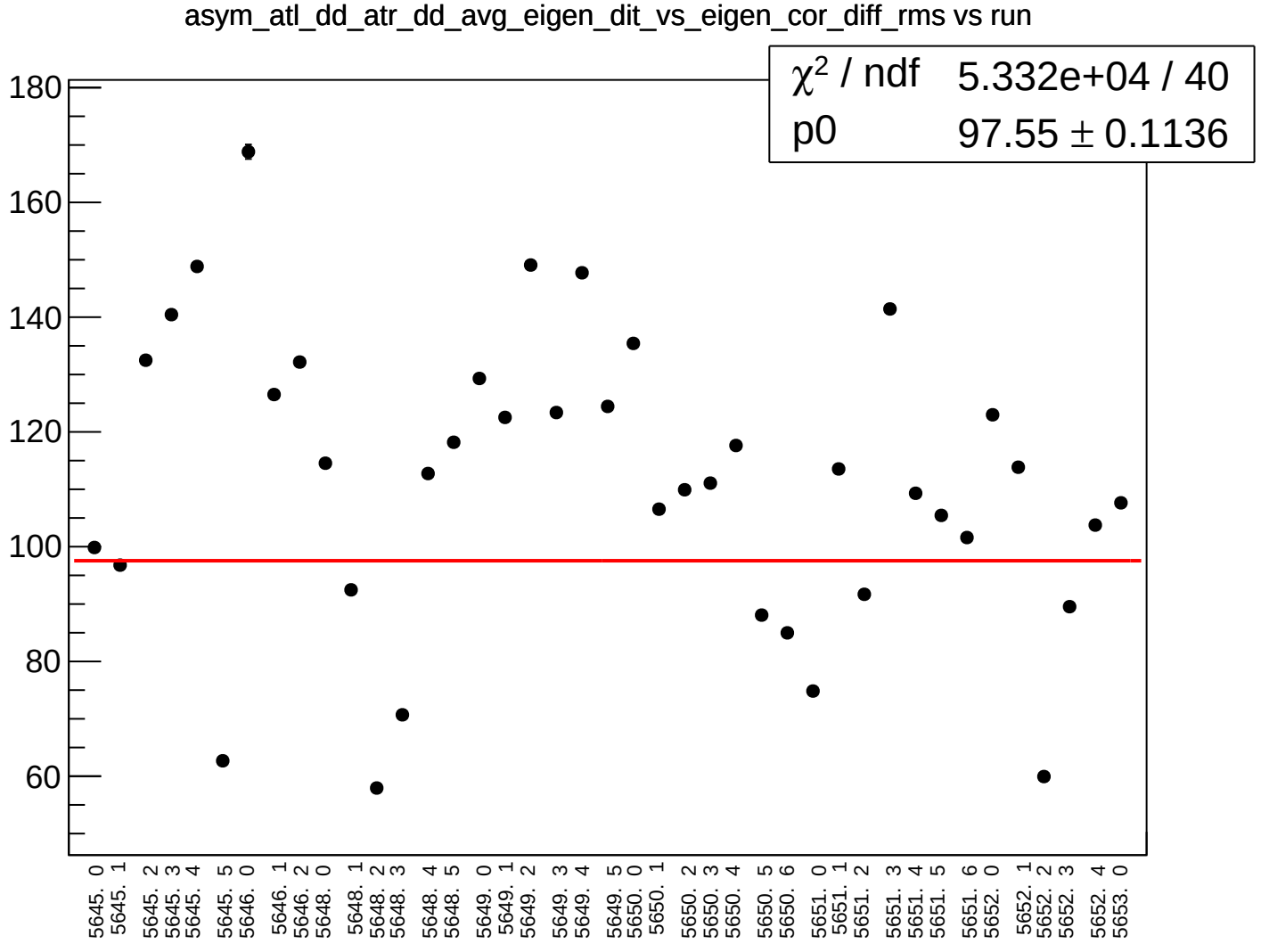

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3660 / 40
p0 0.004381 ± 4.939e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

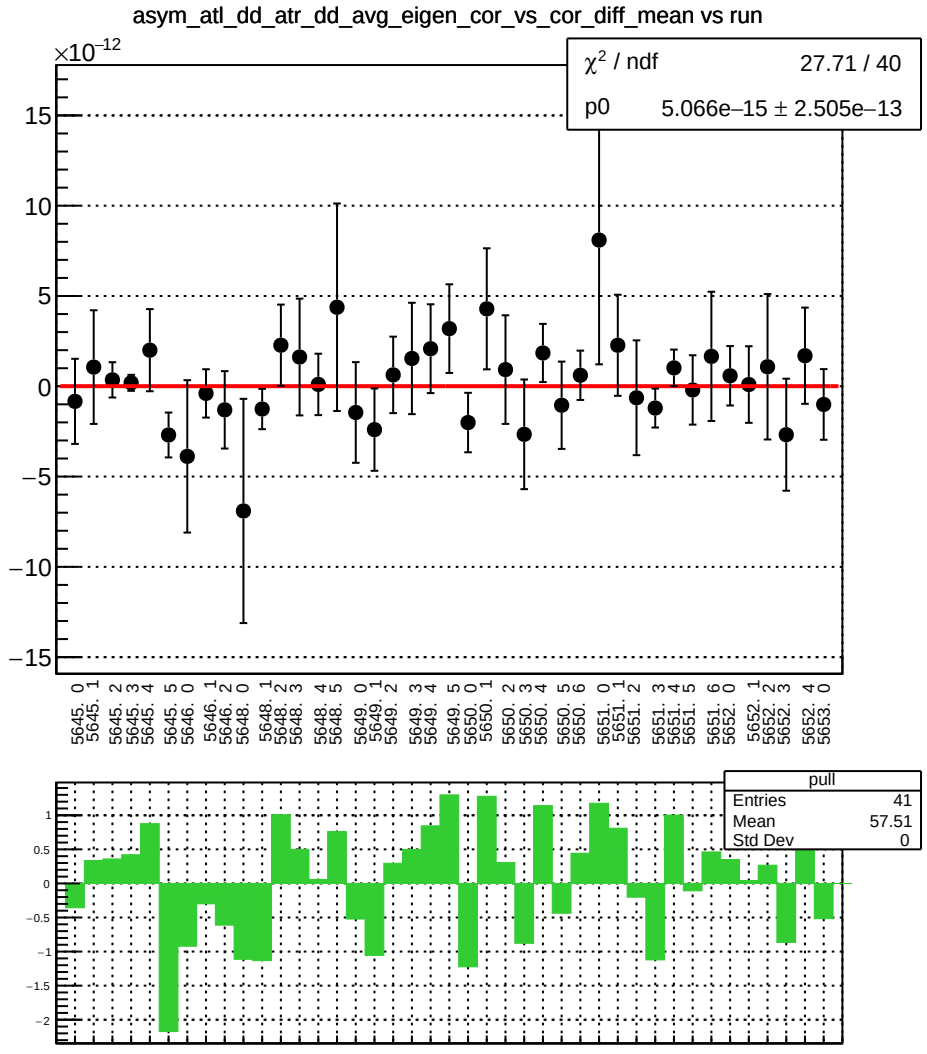

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.0231± 0.1607
pull
Entries 41
Mean 336.5
Std Dev 0

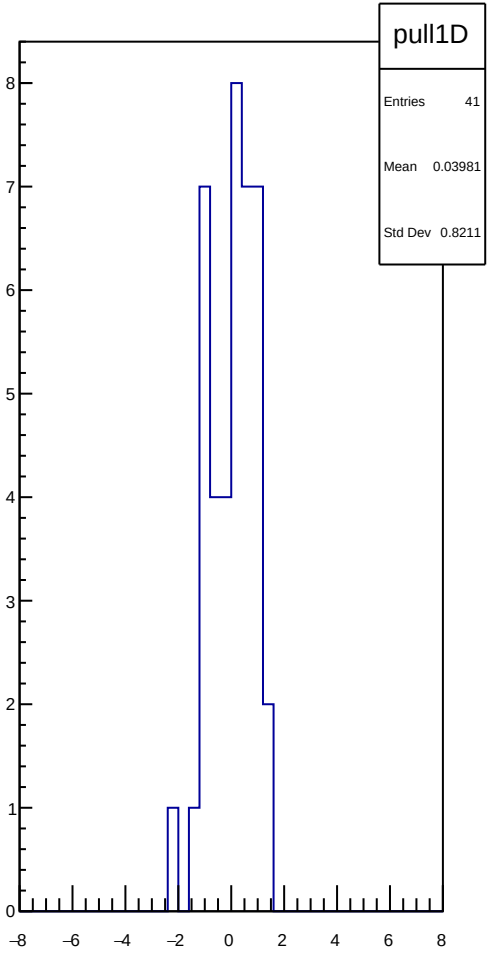

pull1D
Entries 41
Mean −0.006307
Std Dev 0.9417

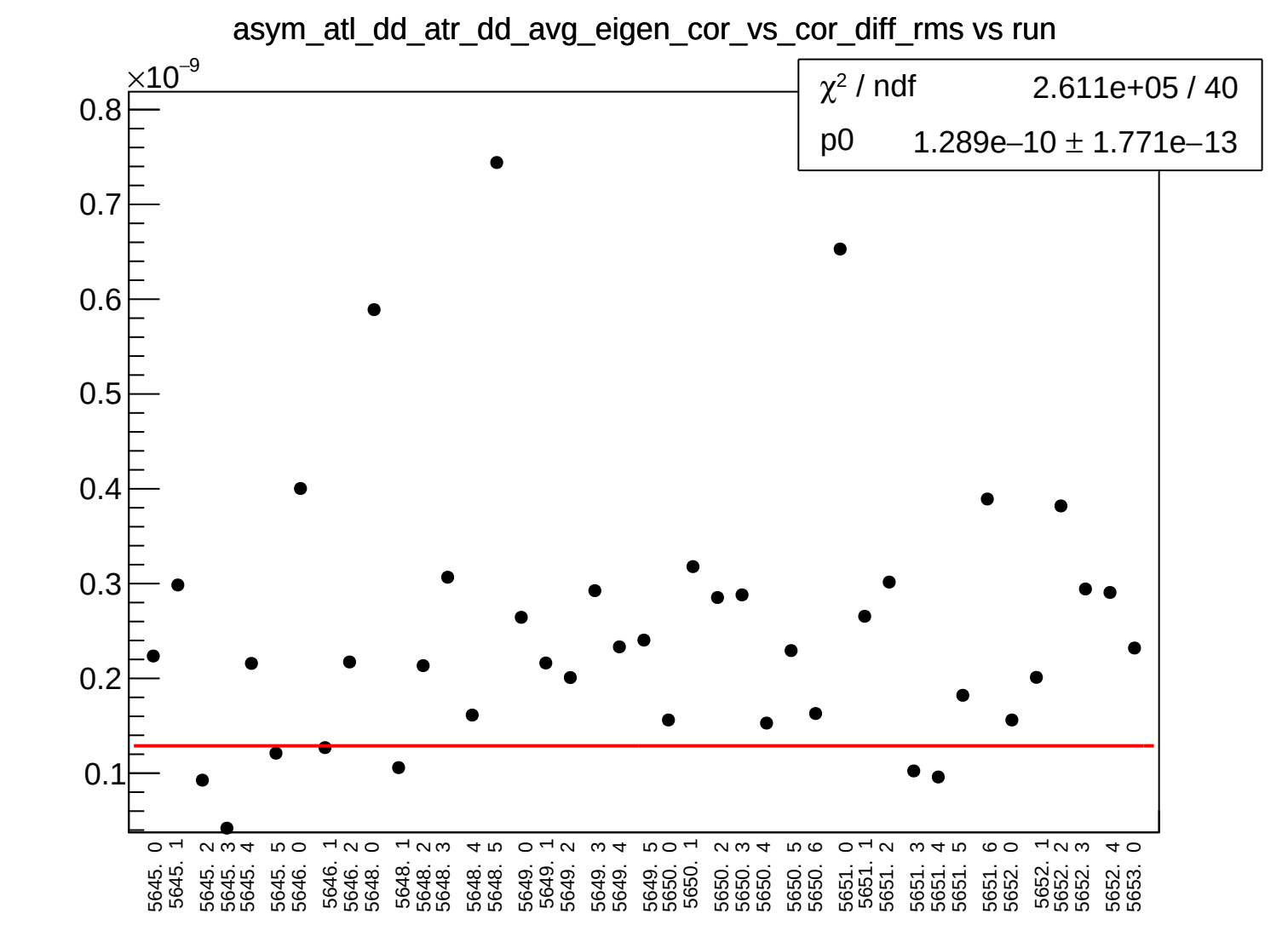

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.332e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

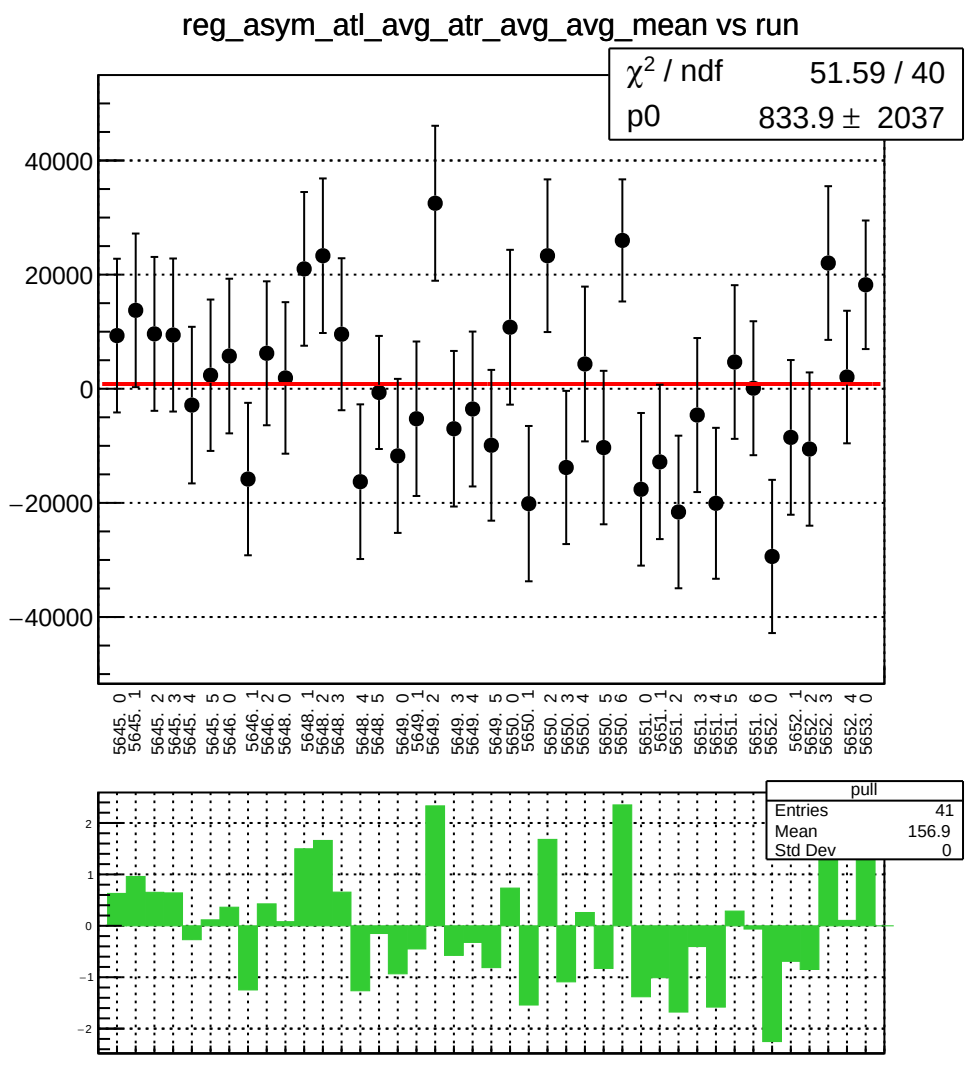

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.0231± 0.1607
pull
Entries 41
Mean 336.5
Std Dev 0
pull1D
Entries 41
Mean −0.006307
Std Dev 0.9417

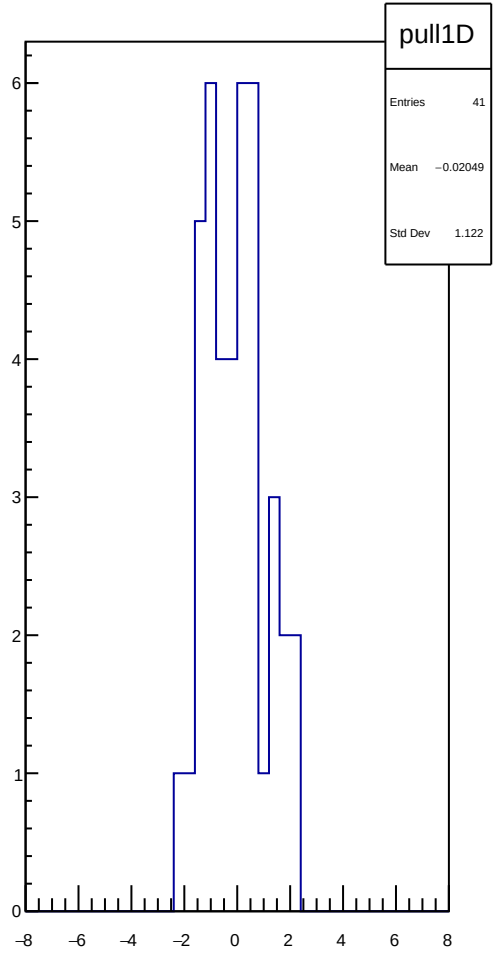

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.332e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

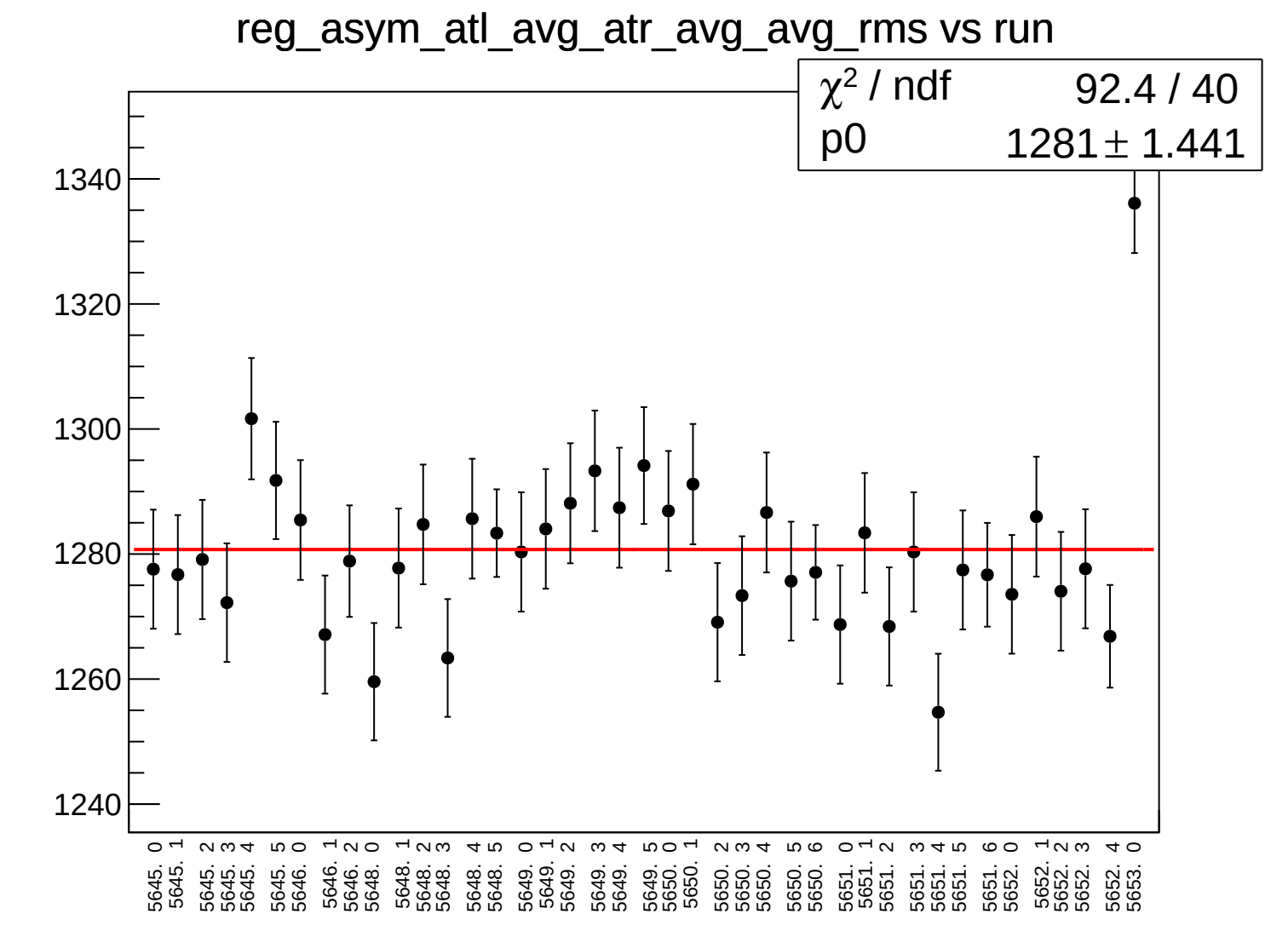

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.71 / 40
p0 5.066e−15 ± 2.505e−13
pull
Entries 41
Mean 57.51
Std Dev 0

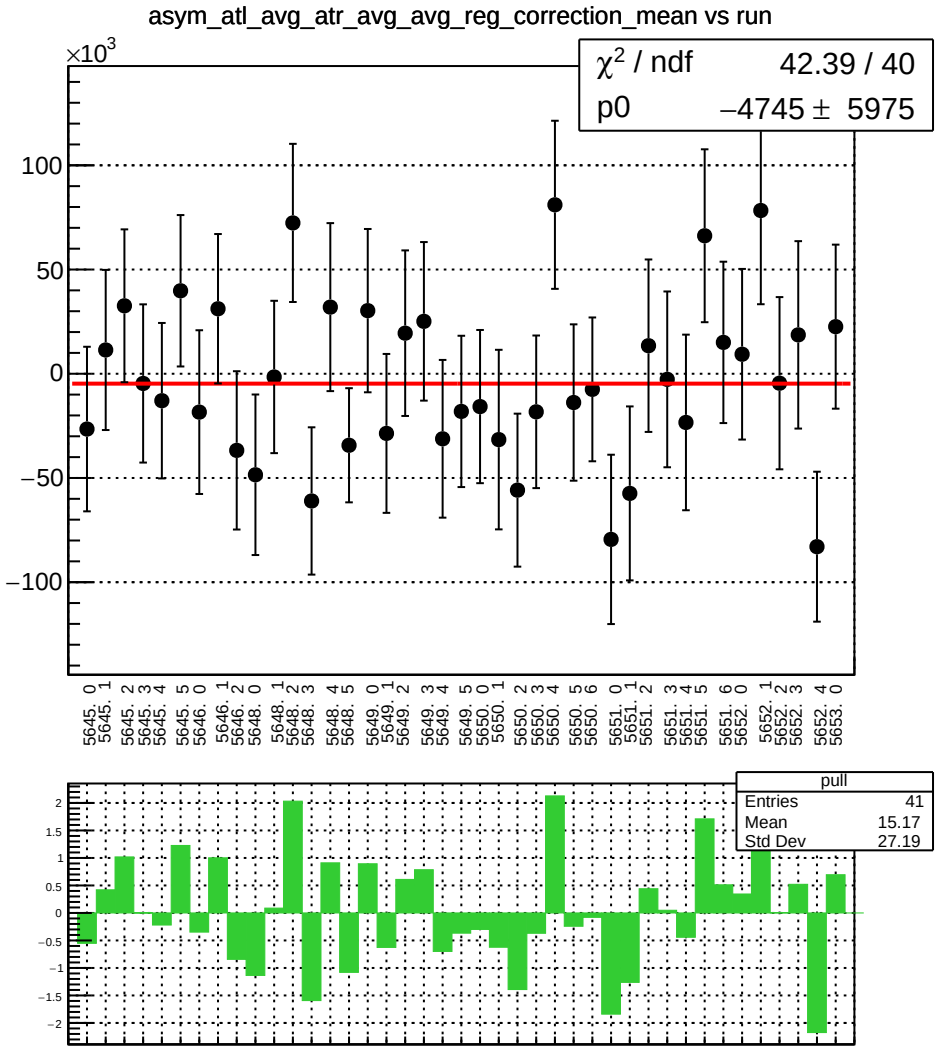

pull1D
Entries 41
Mean 0.03981
Std Dev 0.8211

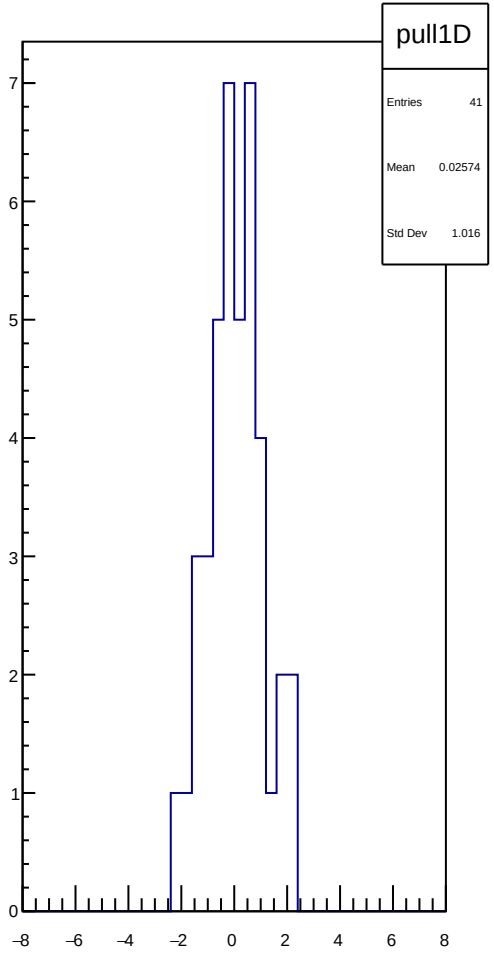

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.611e+05 / 40
p0 1.289e−10 ± 1.771e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

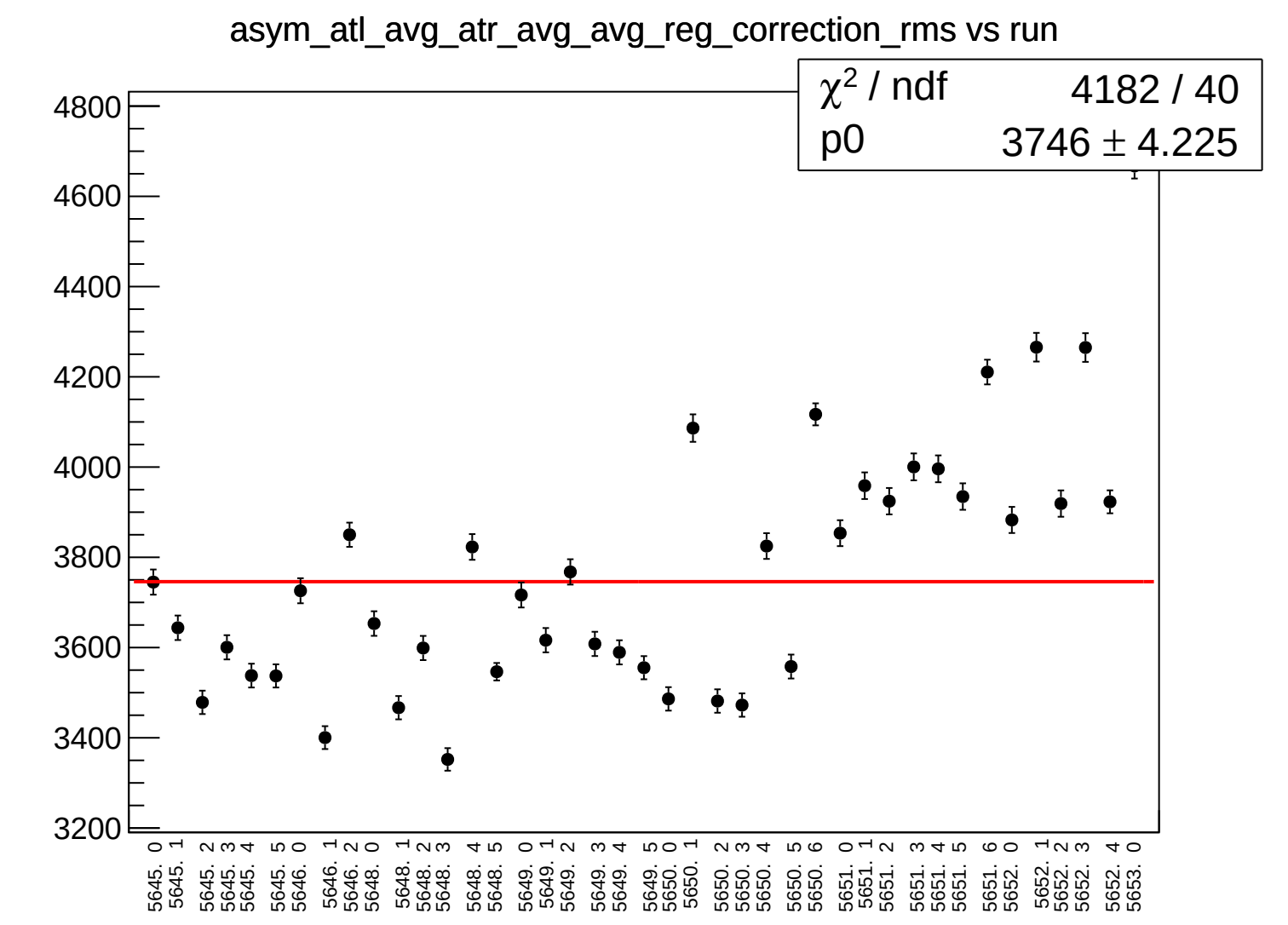

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 51.59 / 40
p0 833.9 ± 2037
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 156.9
Std Dev 0
2
1
0
−1
−2

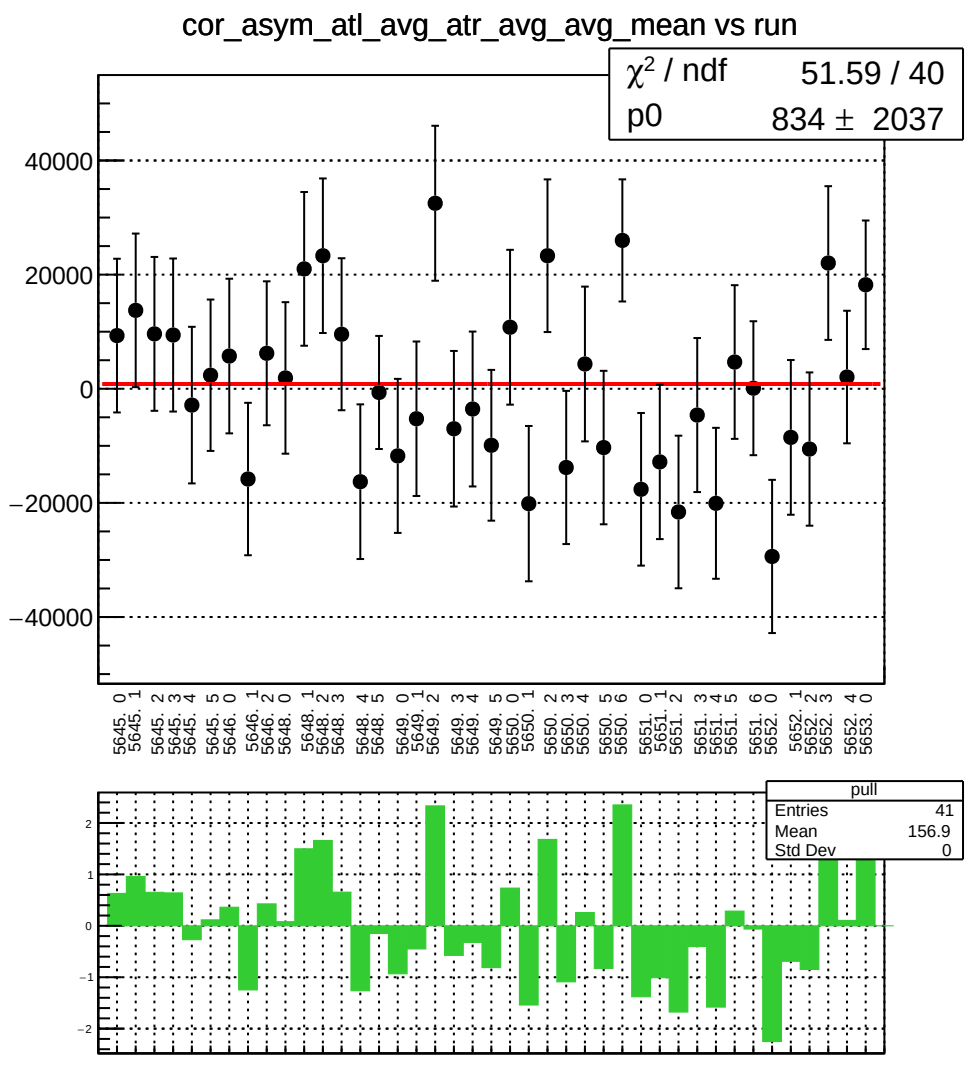

pull1D
Entries 41
Mean −0.02049
Std Dev 1.122
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

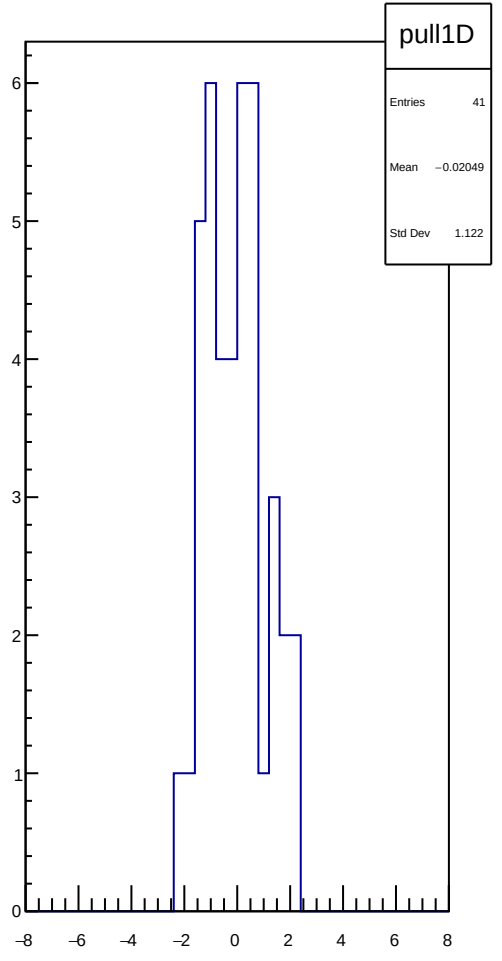

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 92.4 / 40
p0 1281 ± 1.441
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

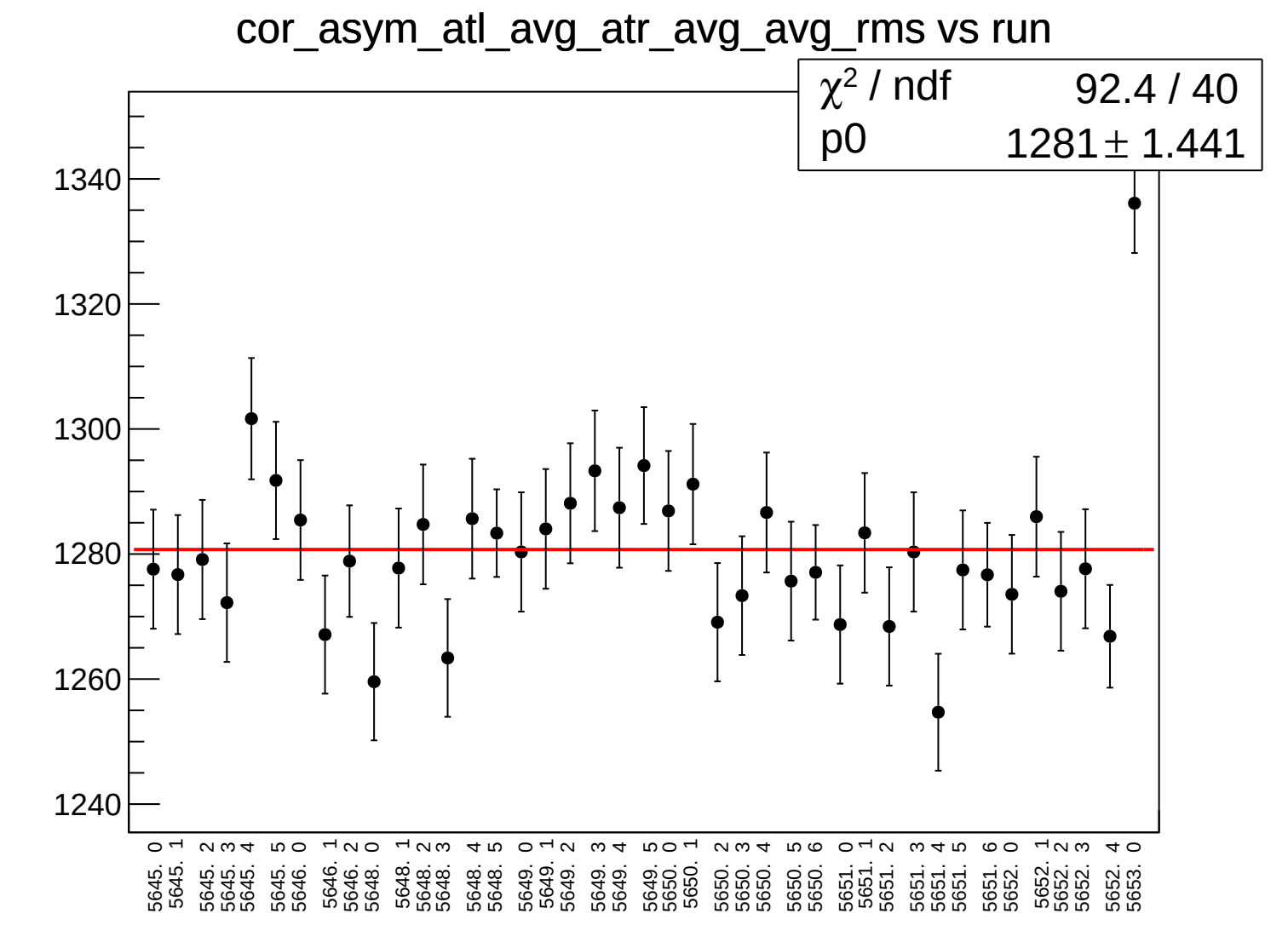

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
χ² / ndf 42.39 / 40
p0 −4745 ± 5975
×10³
pull
Entries 41
Mean 15.17
Std Dev 27.19

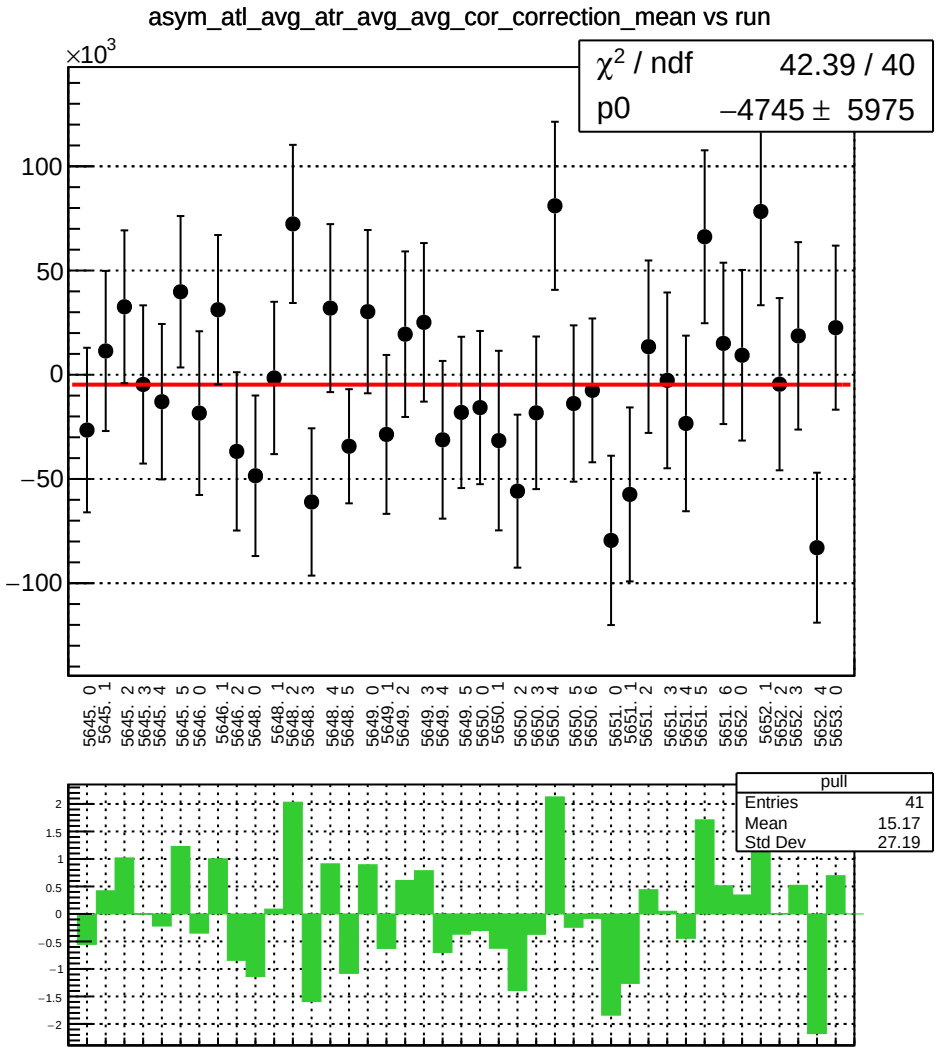

pull1D
Entries 41
Mean 0.02574
Std Dev 1.016

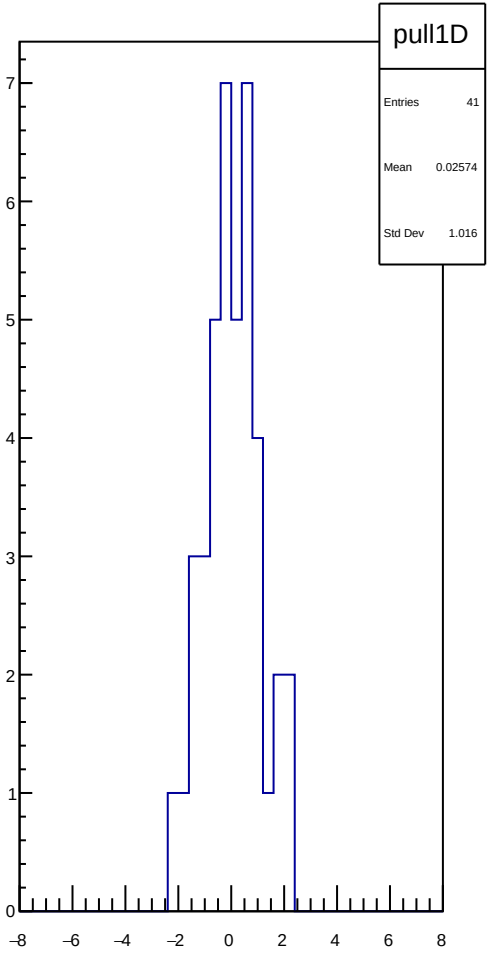

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4182 / 40
p0 3746 ± 4.225
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

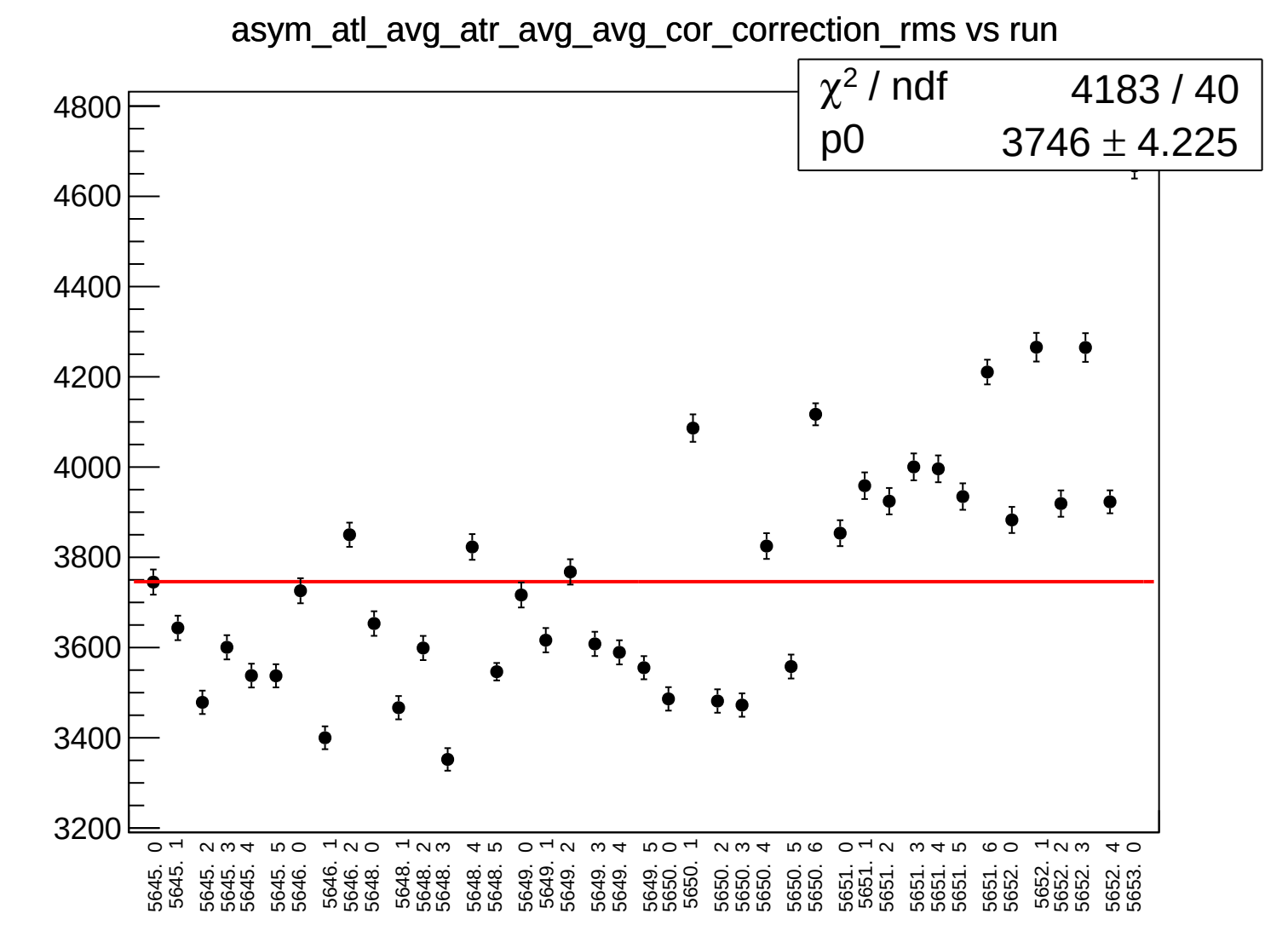

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 51.59 / 40
p0 834 ± 2037
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 156.9
Std Dev 0
2
1
0
−1
−2

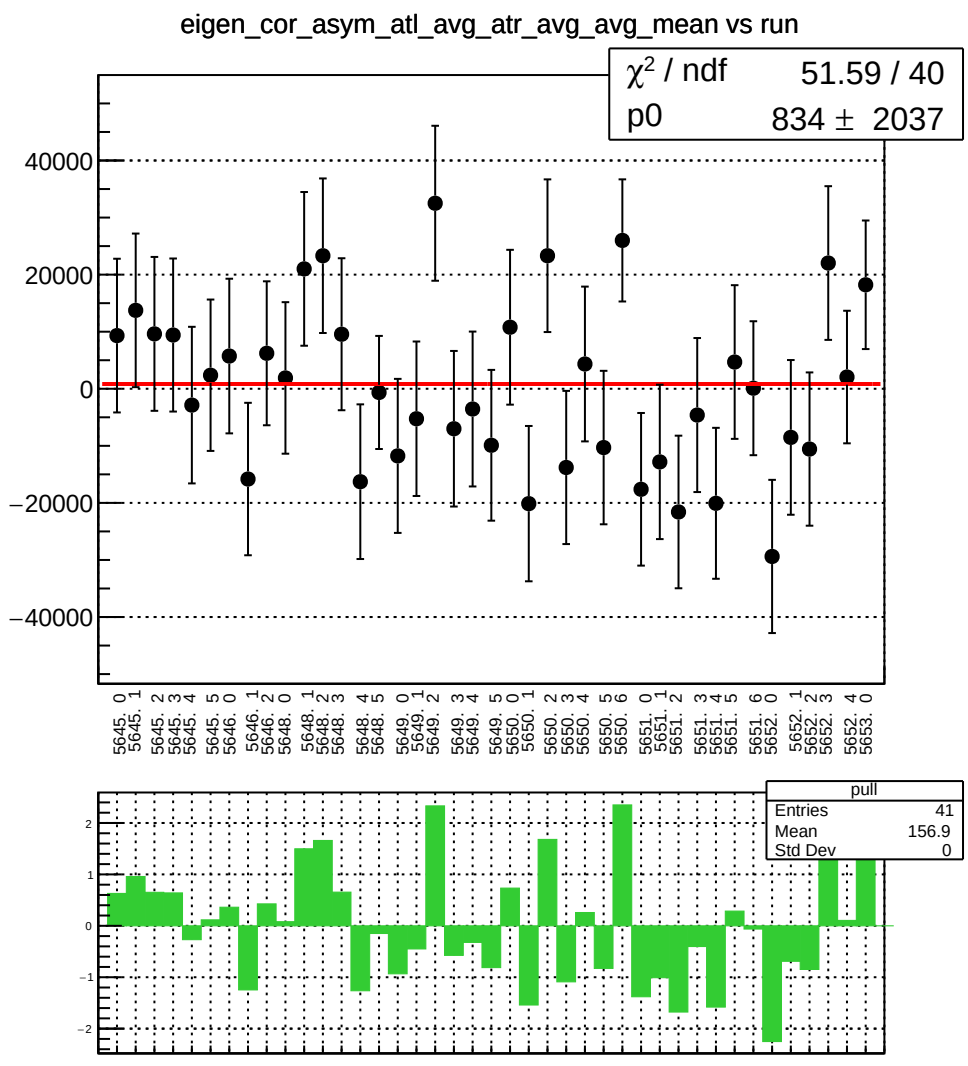

pull1D
Entries 41
Mean −0.02049
Std Dev 1.122
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

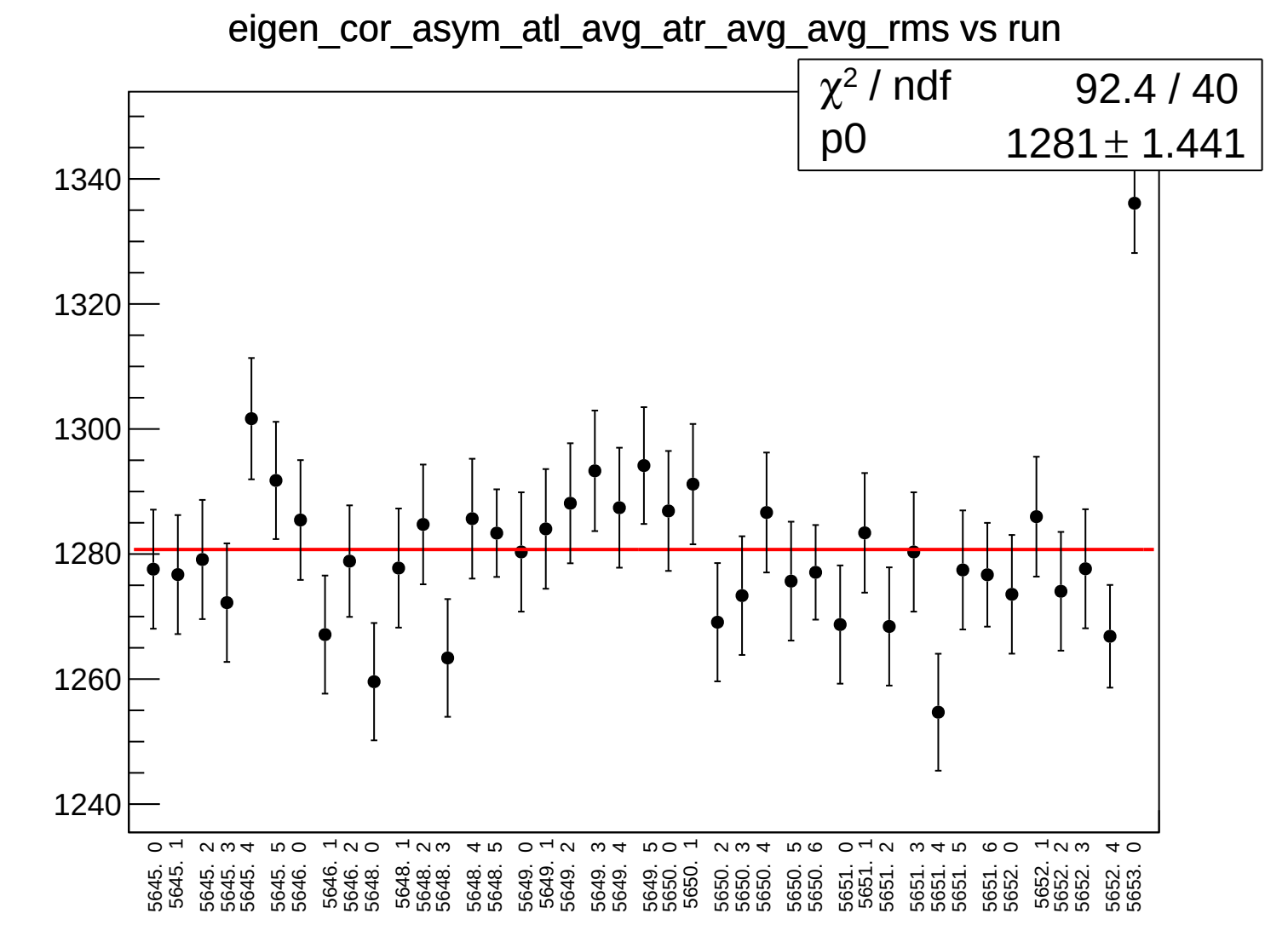

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 92.4 / 40
p0 1281 ± 1.441
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

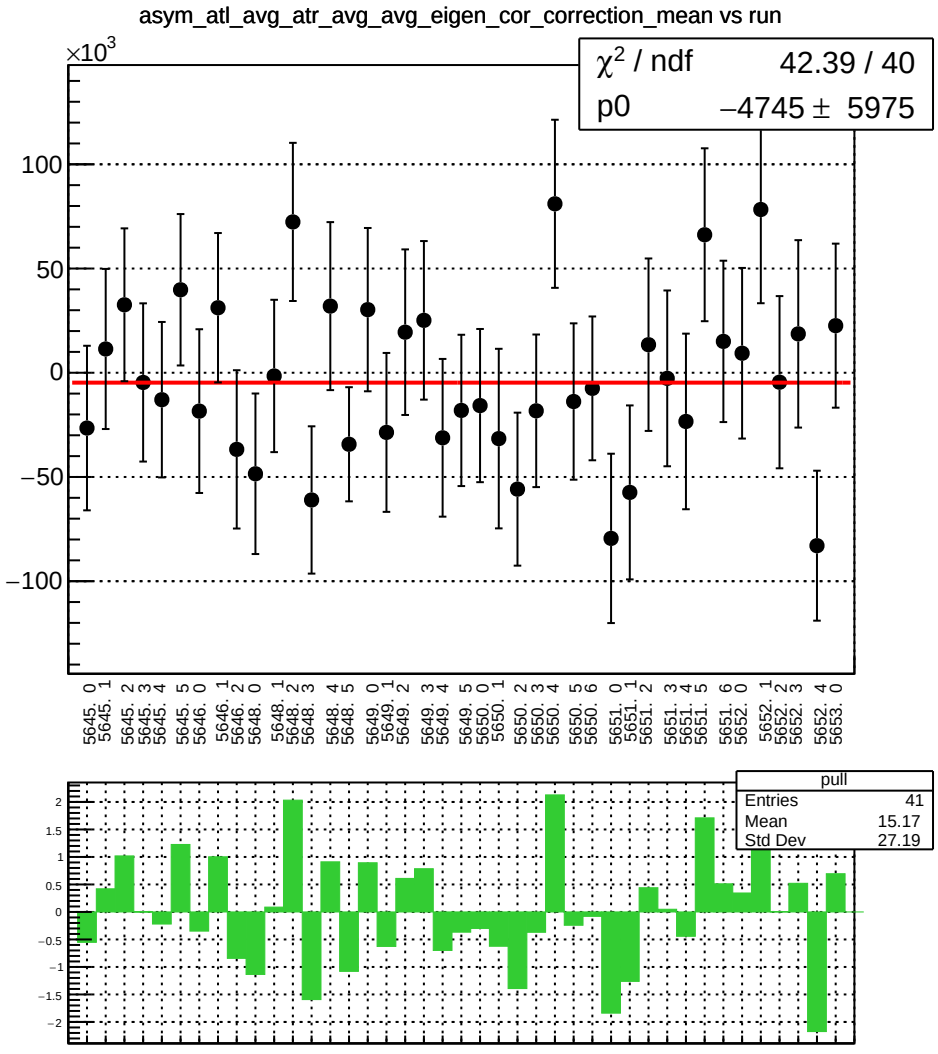

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 42.39 / 40
p0 −4745 ± 5975
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.17
Std Dev 27.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

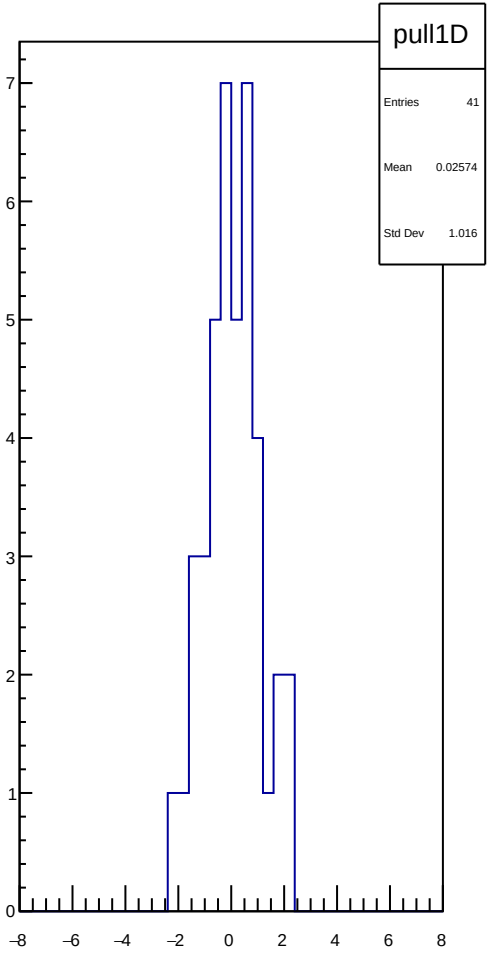

pull1D
Entries 41
Mean 0.02574
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

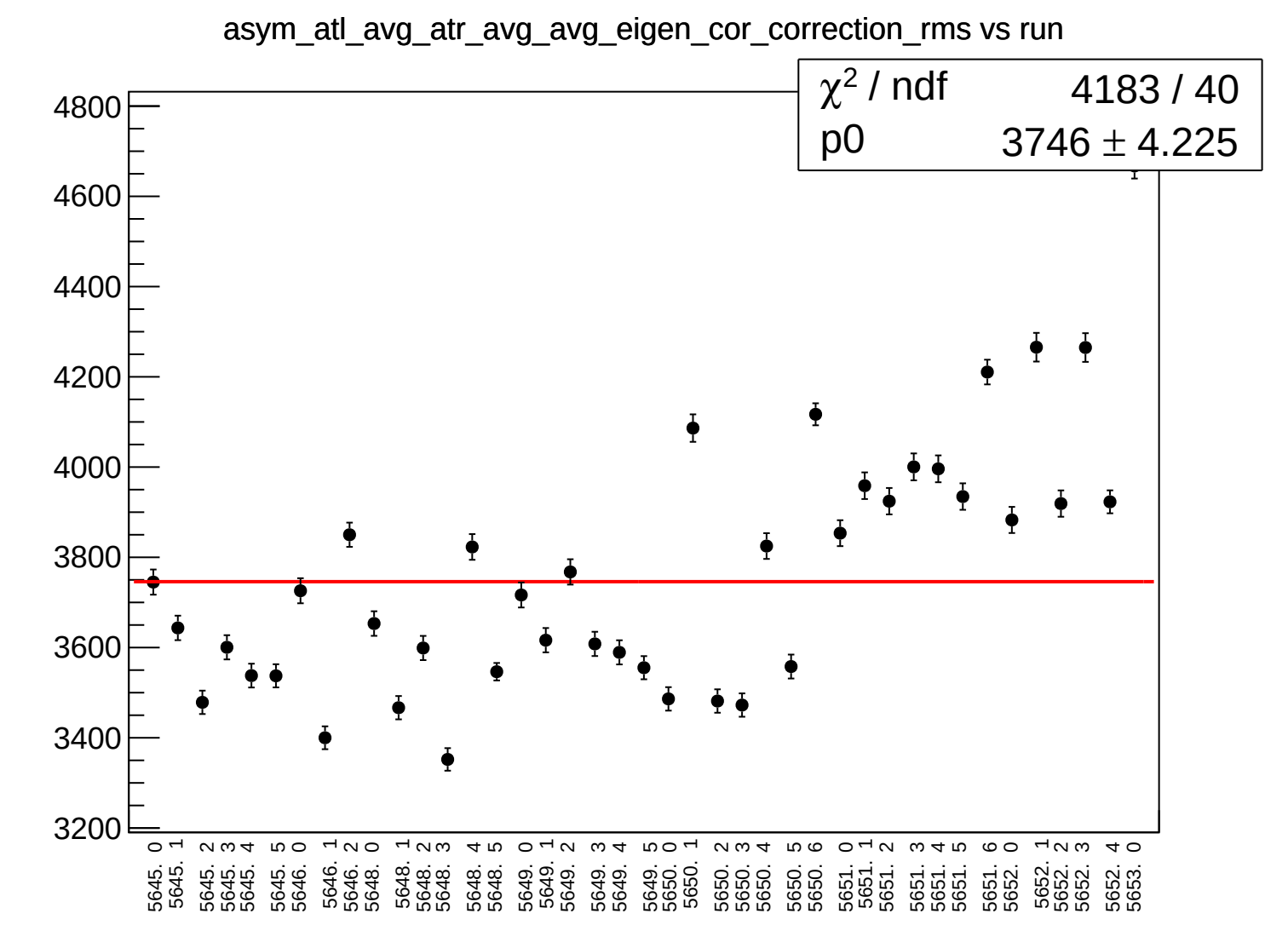

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4183 / 40
p0 3746 ± 4.225
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

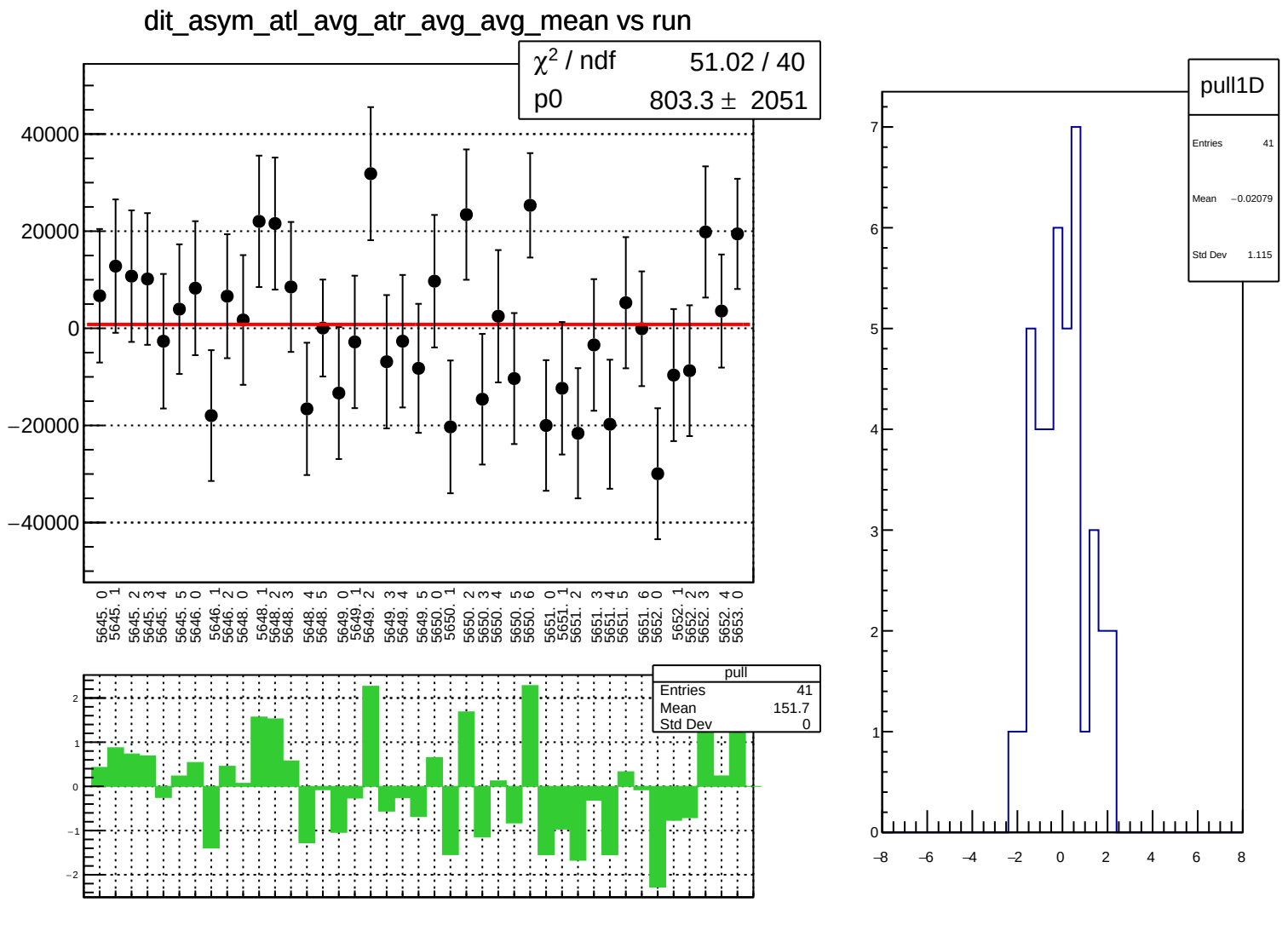

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 51.59 / 40
p0 834 ± 2037
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 156.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02049
Std Dev 1.122
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

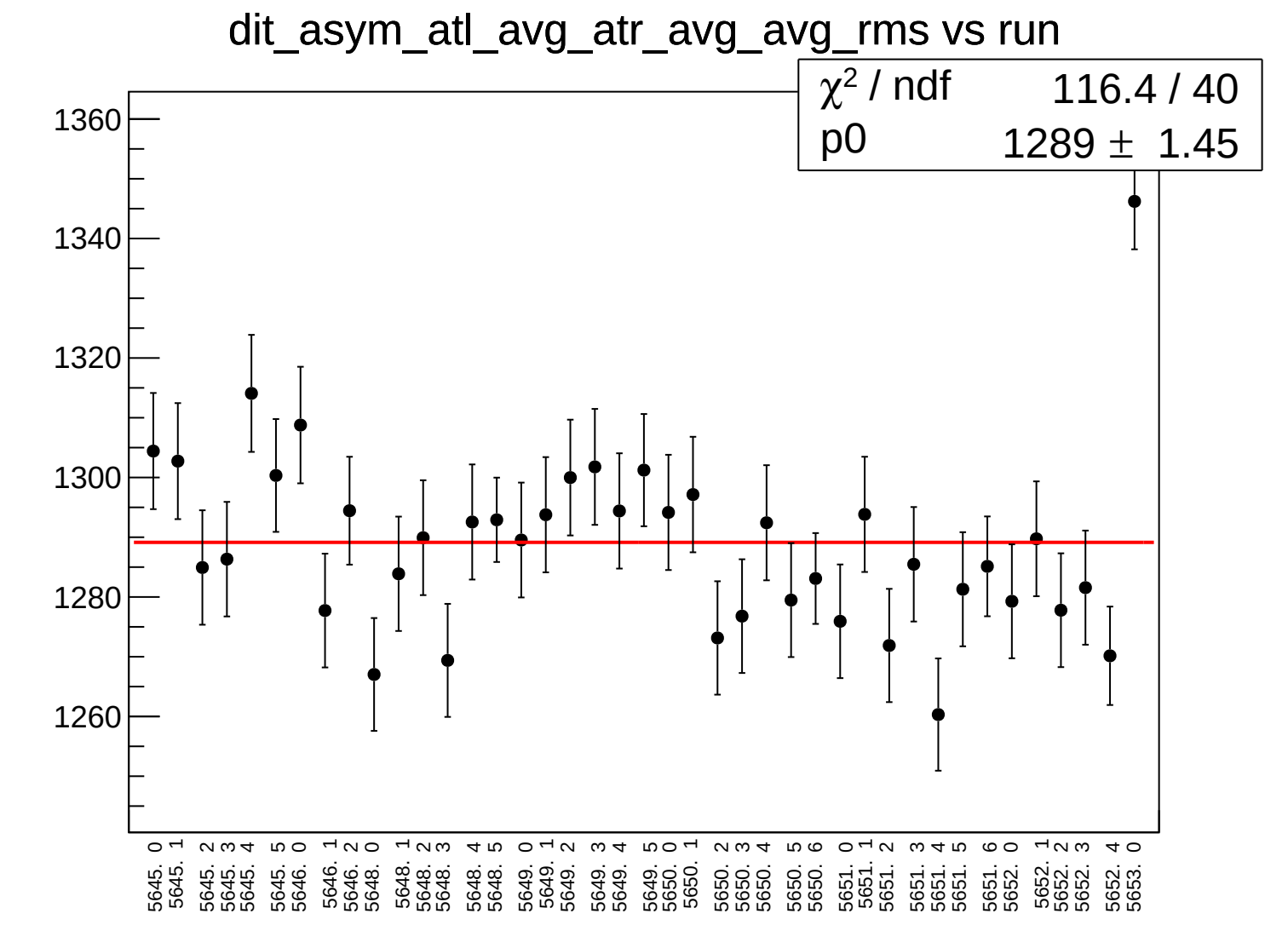

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 92.4 / 40
p0 1281 ± 1.441
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

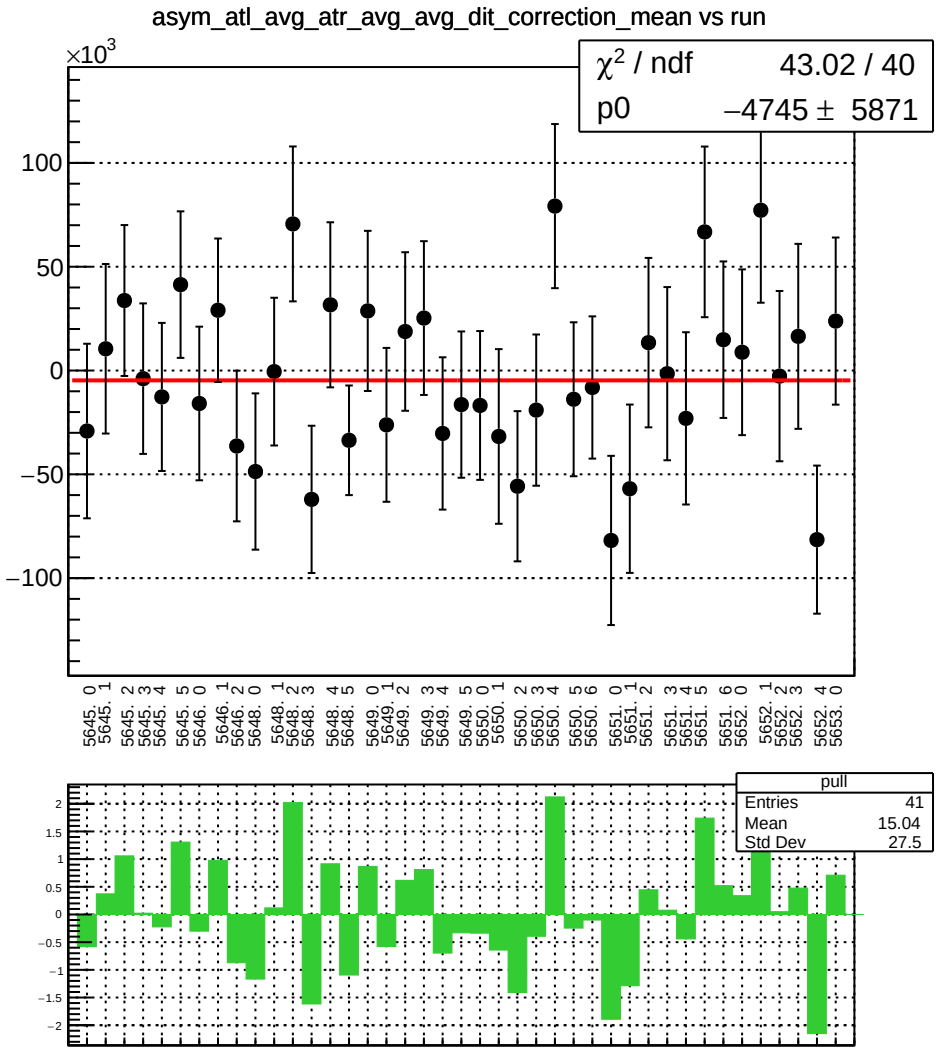

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 42.39 / 40
p0 −4745 ± 5975
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.17
Std Dev 27.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

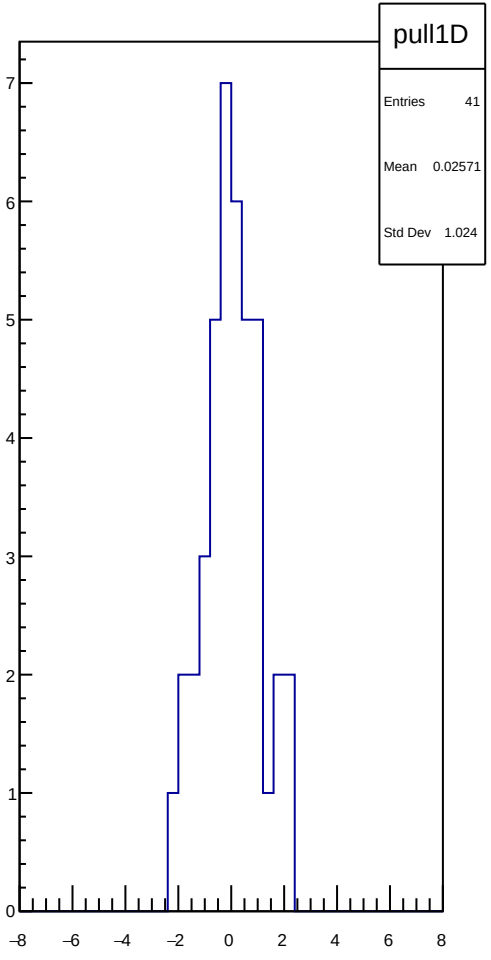

pull1D
Entries 41
Mean 0.02574
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

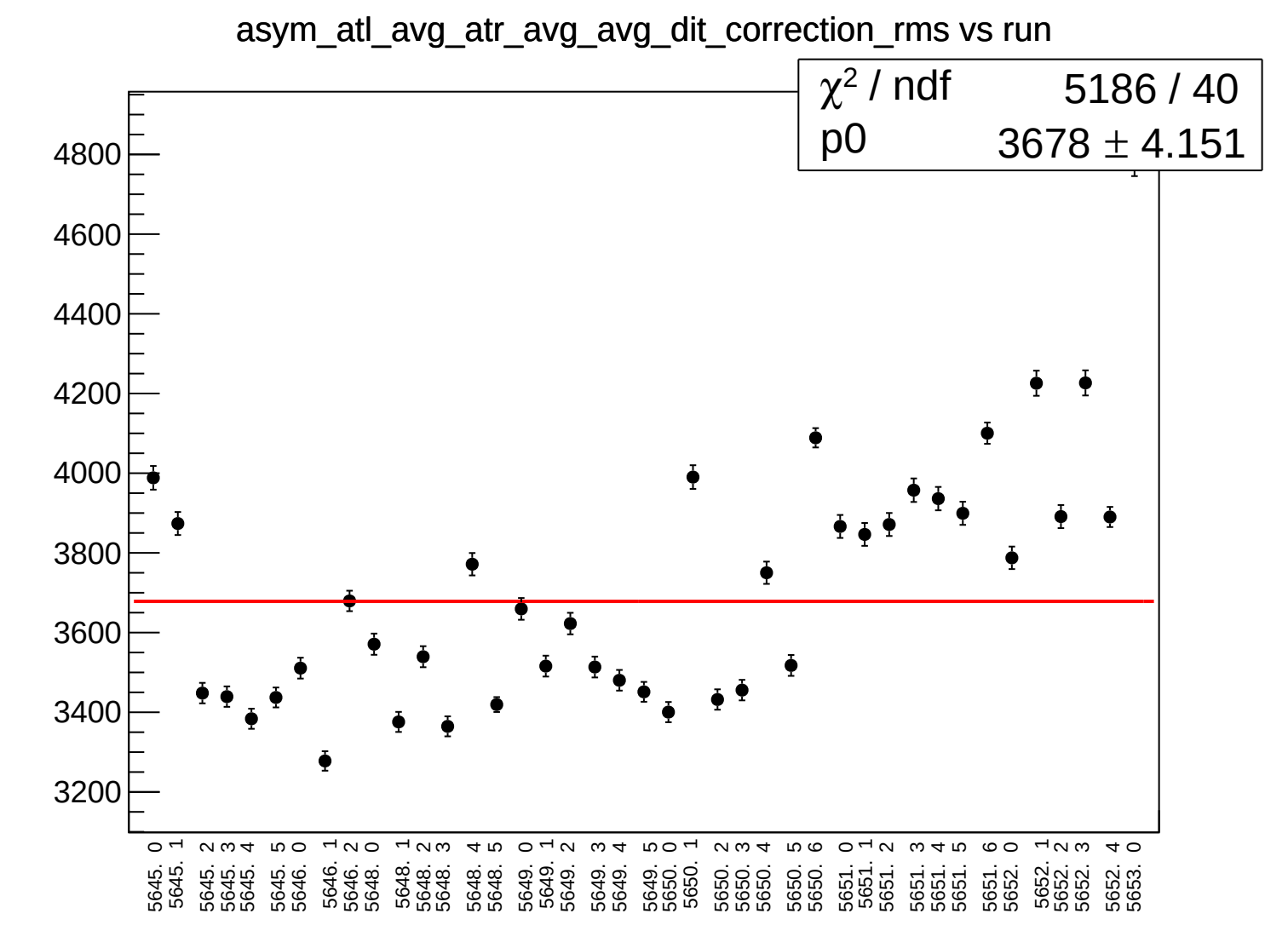

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4183 / 40
p0 3746 ± 4.225
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

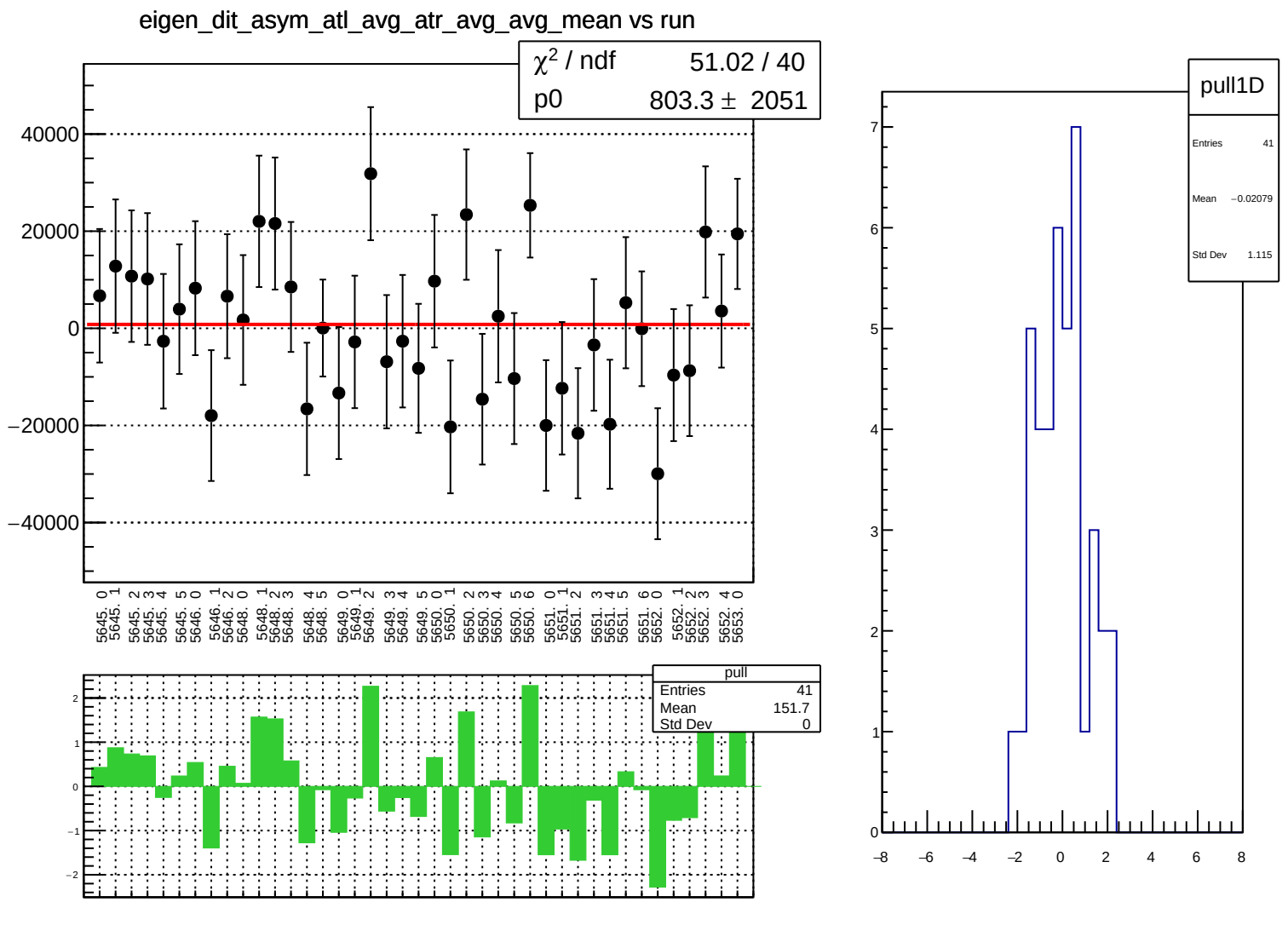

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 51.02 / 40
p0 803.3 ± 2051
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02079
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

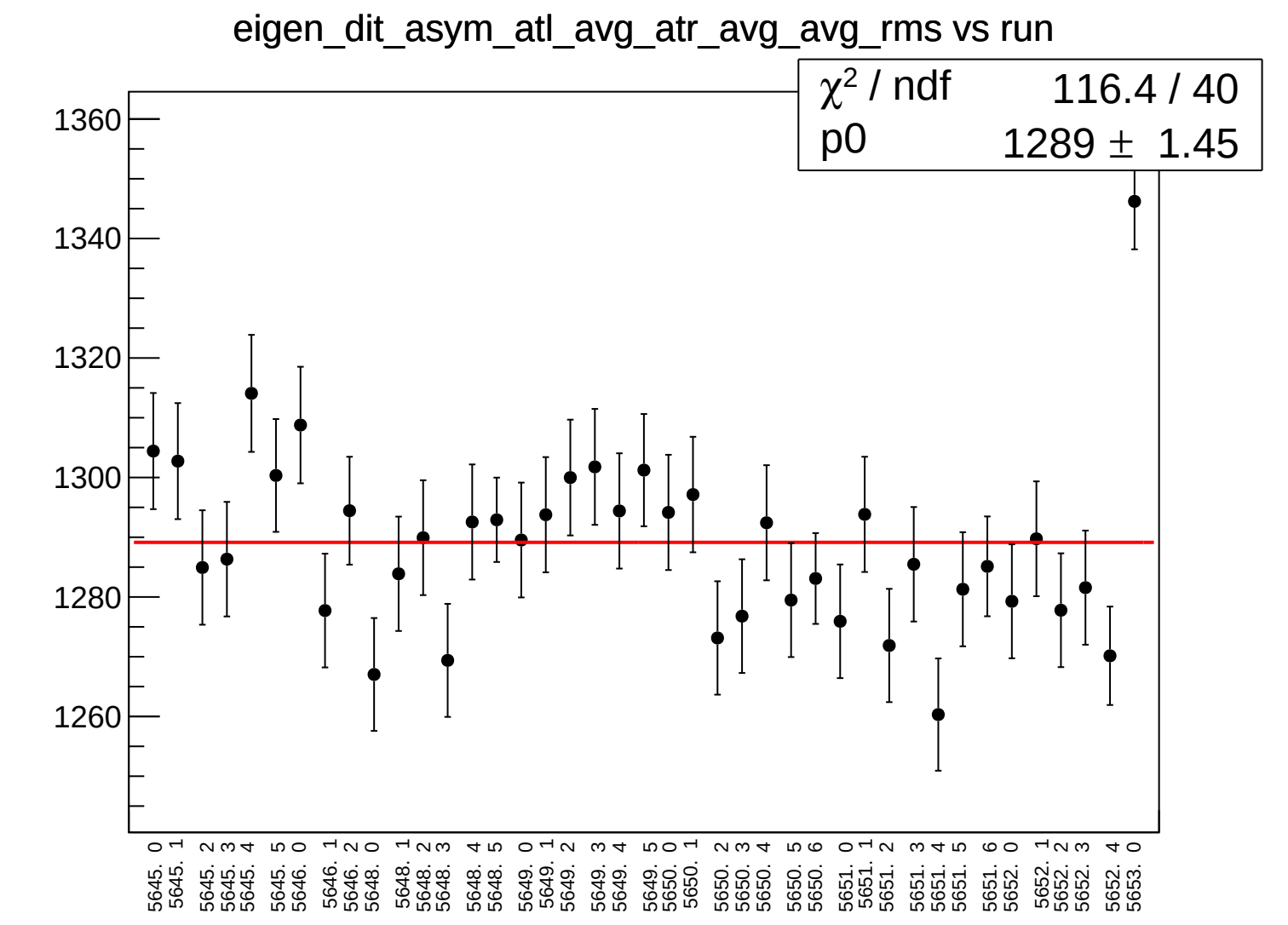

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 116.4 / 40
p0 1289 ± 1.45
1360
1340
1320
1300
1280
1260
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

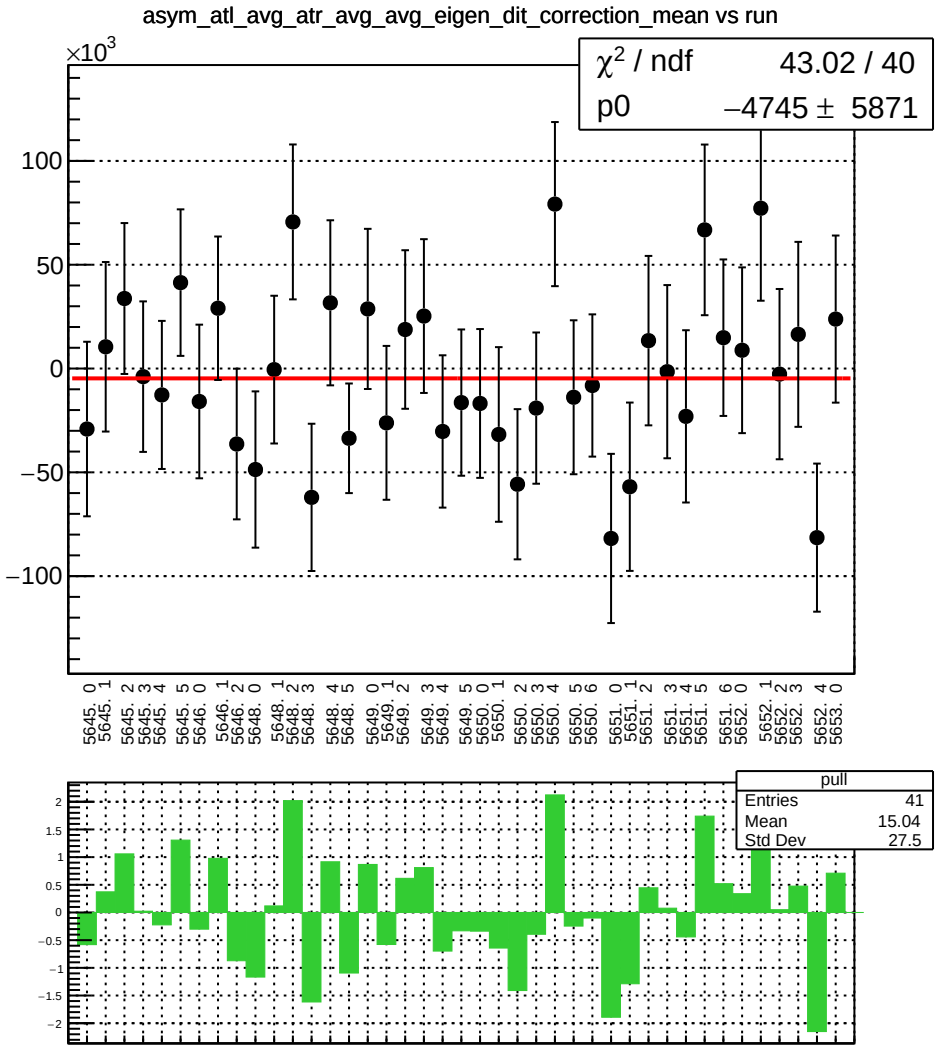

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 43.02 / 40
p0 −4745 ± 5871
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.04
Std Dev 27.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

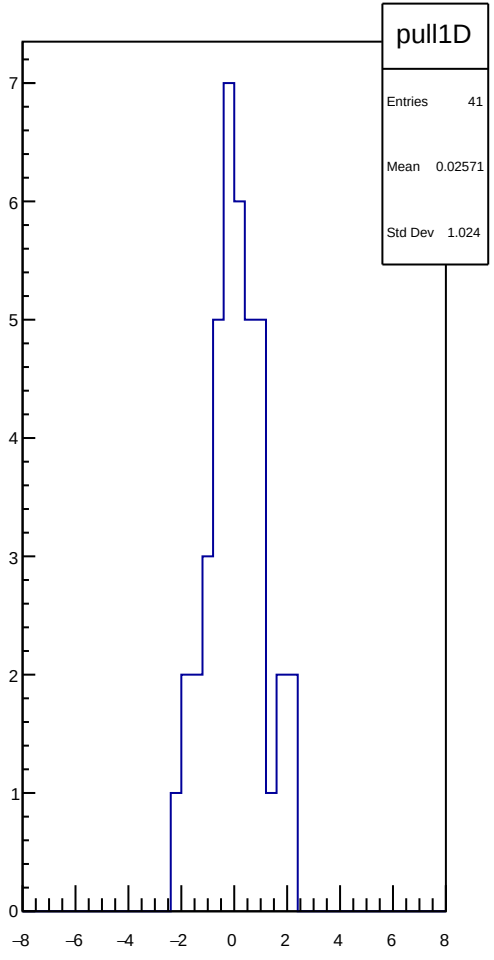

pull1D
Entries 41
Mean 0.02571
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

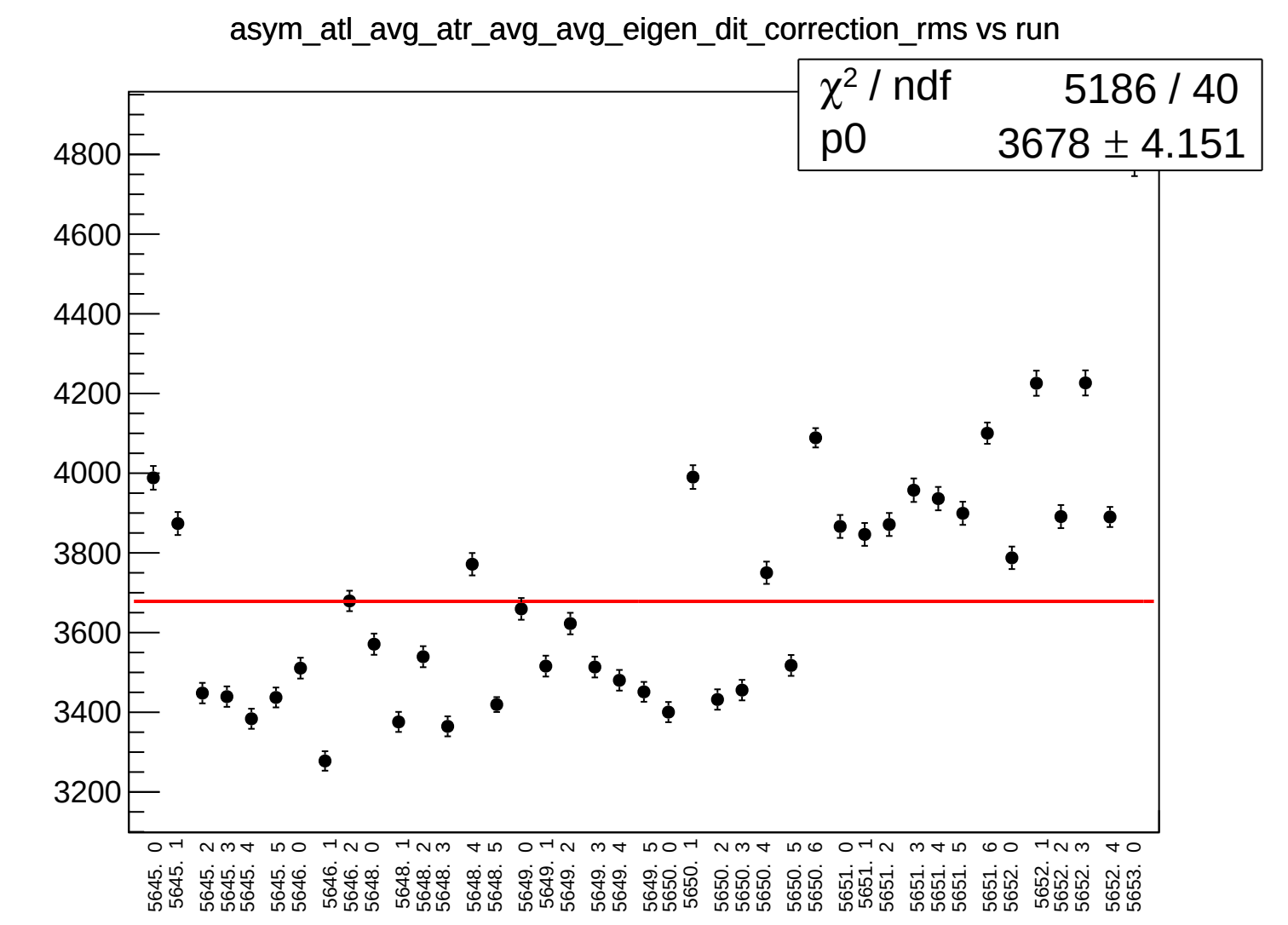

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5186 / 40
p0 3678 ± 4.151
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

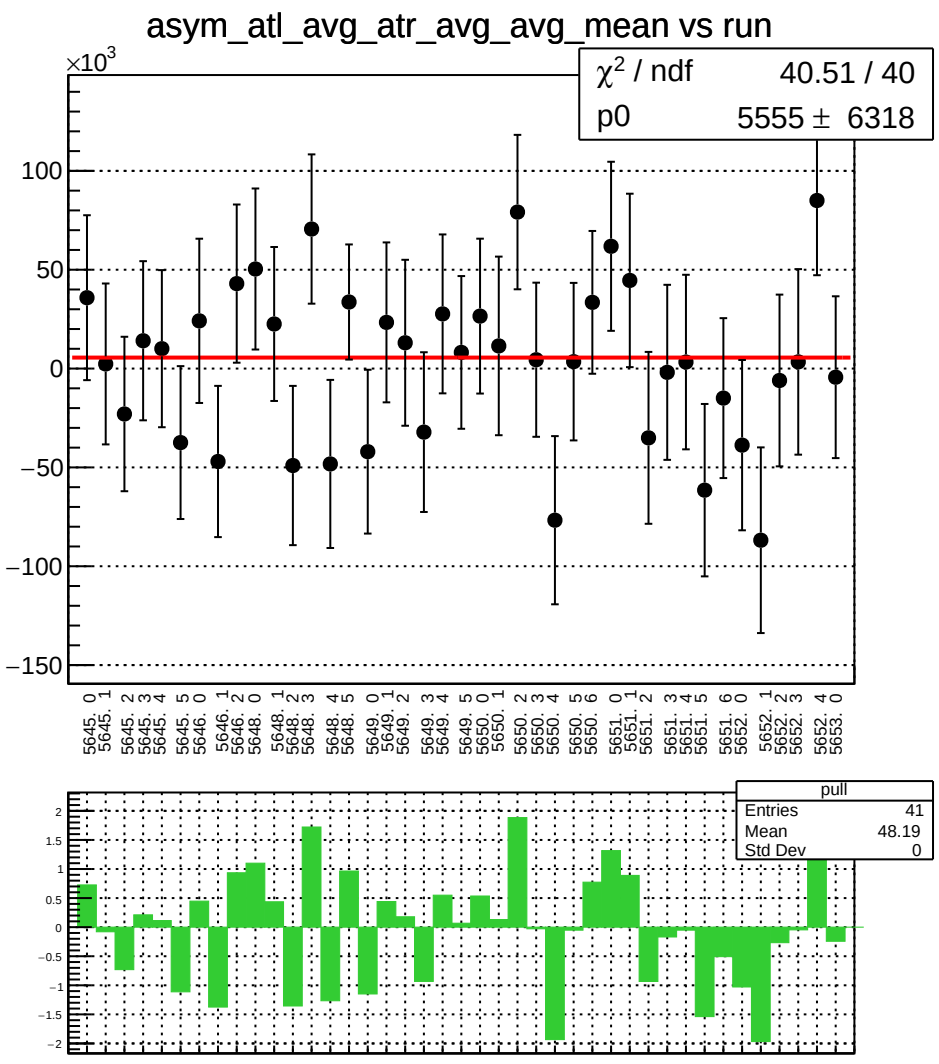

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 51.02 / 40
p0 803.3 ± 2051
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02079
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

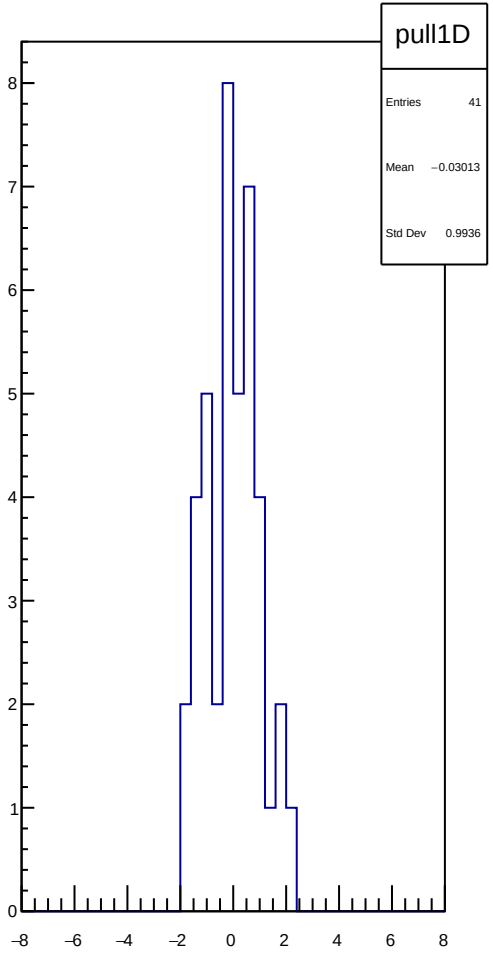

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 116.4 / 40
p0 1289 ± 1.45
1360
1340
1320
1300
1280
1260
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

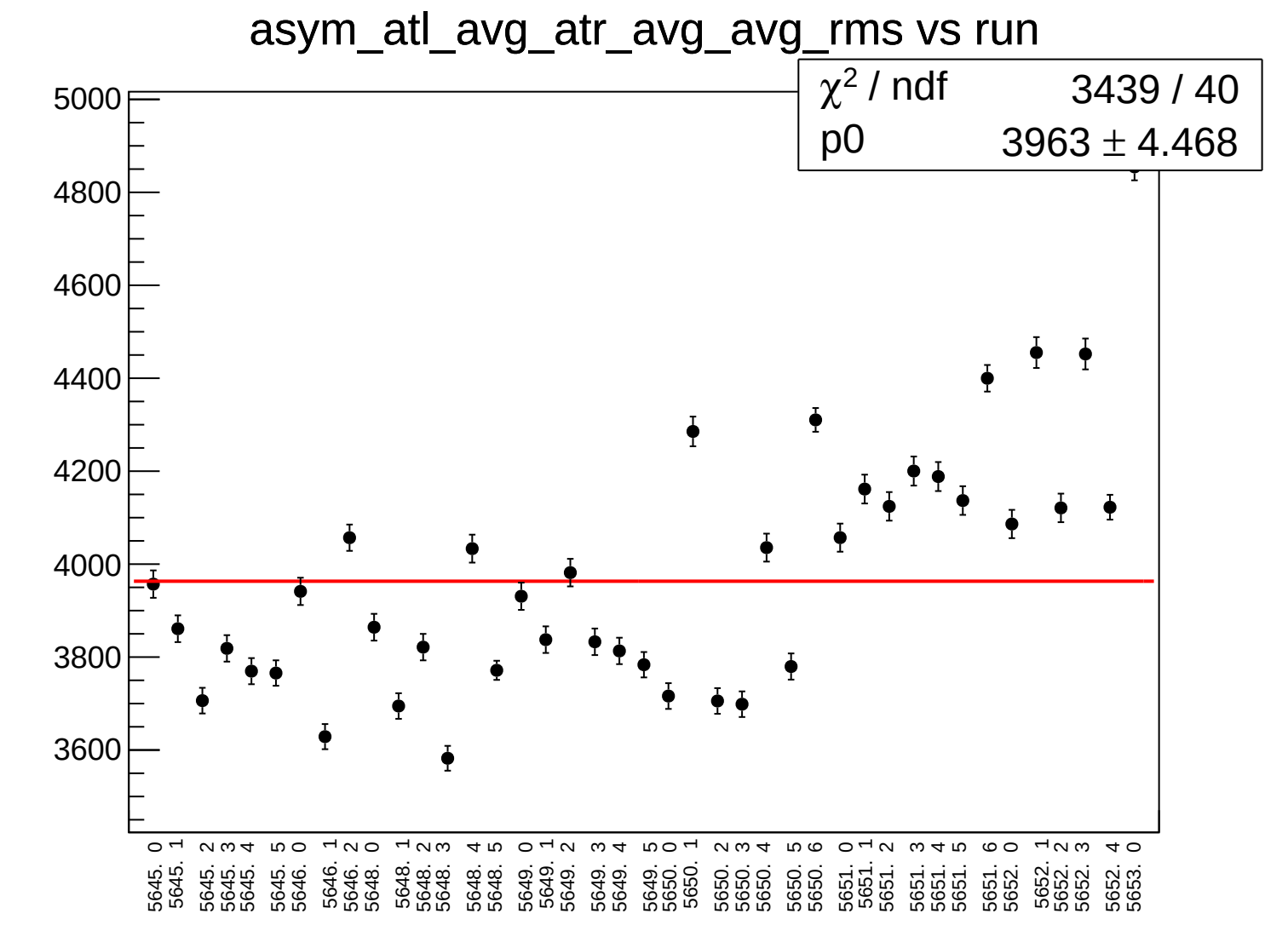

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.02 / 40
p0 −4745 ± 5871
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.04
Std Dev 27.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

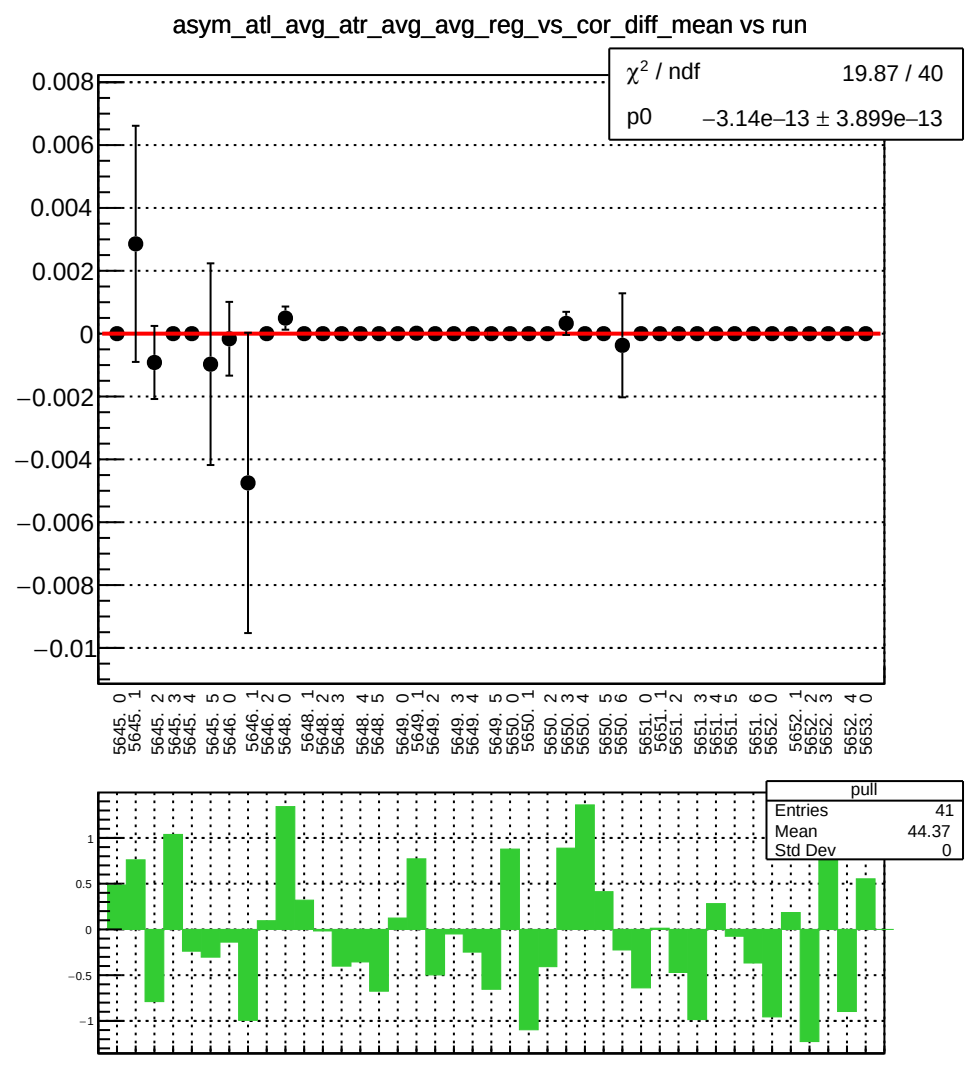

pull1D
Entries 41
Mean 0.02571
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

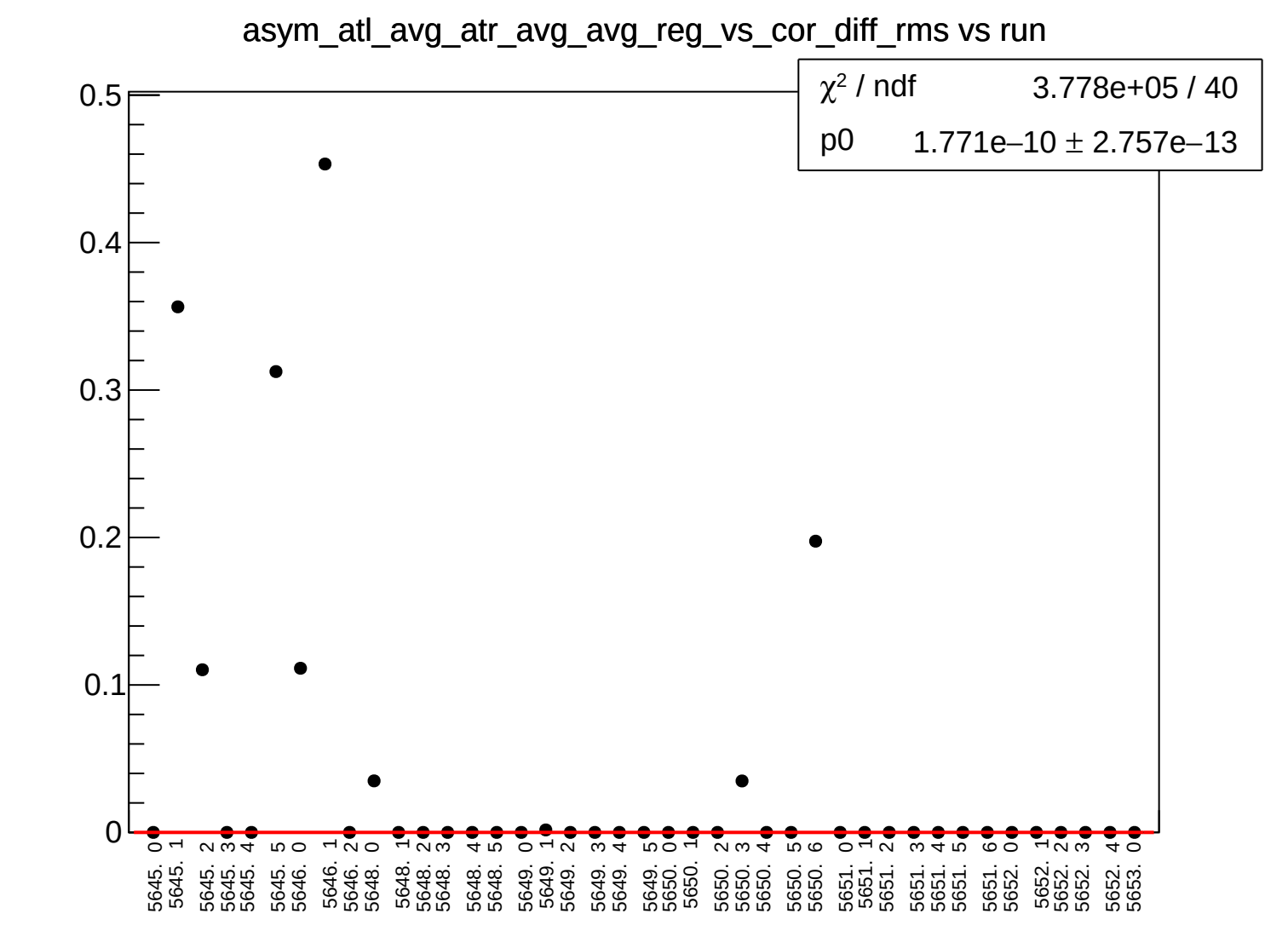

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5186 / 40
p0 3678 ± 4.151
4800
4600
4400
4200
4000
3800
3600
3400
3200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

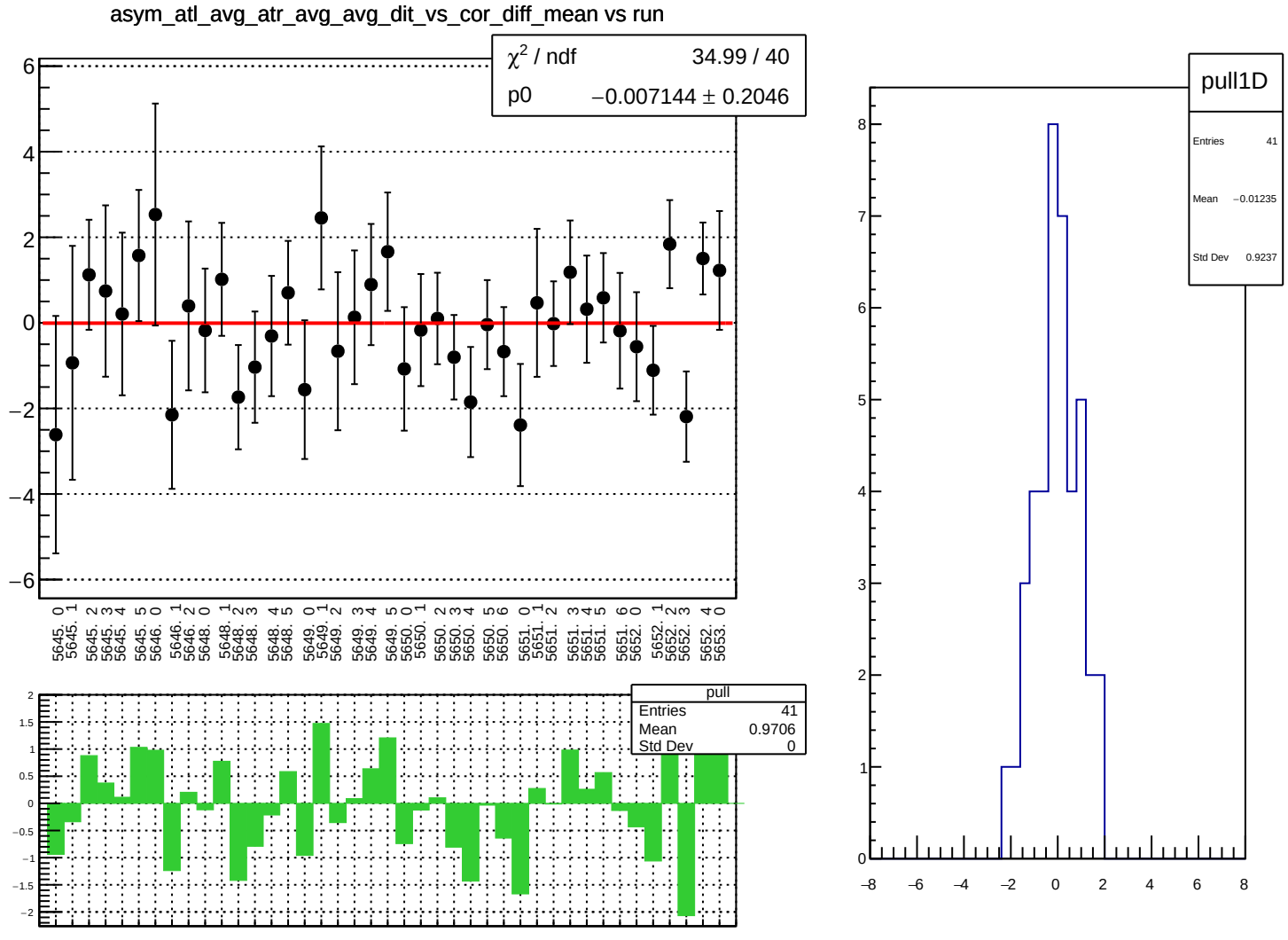

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 40.51 / 40
p0 5555 ± 6318
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 48.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

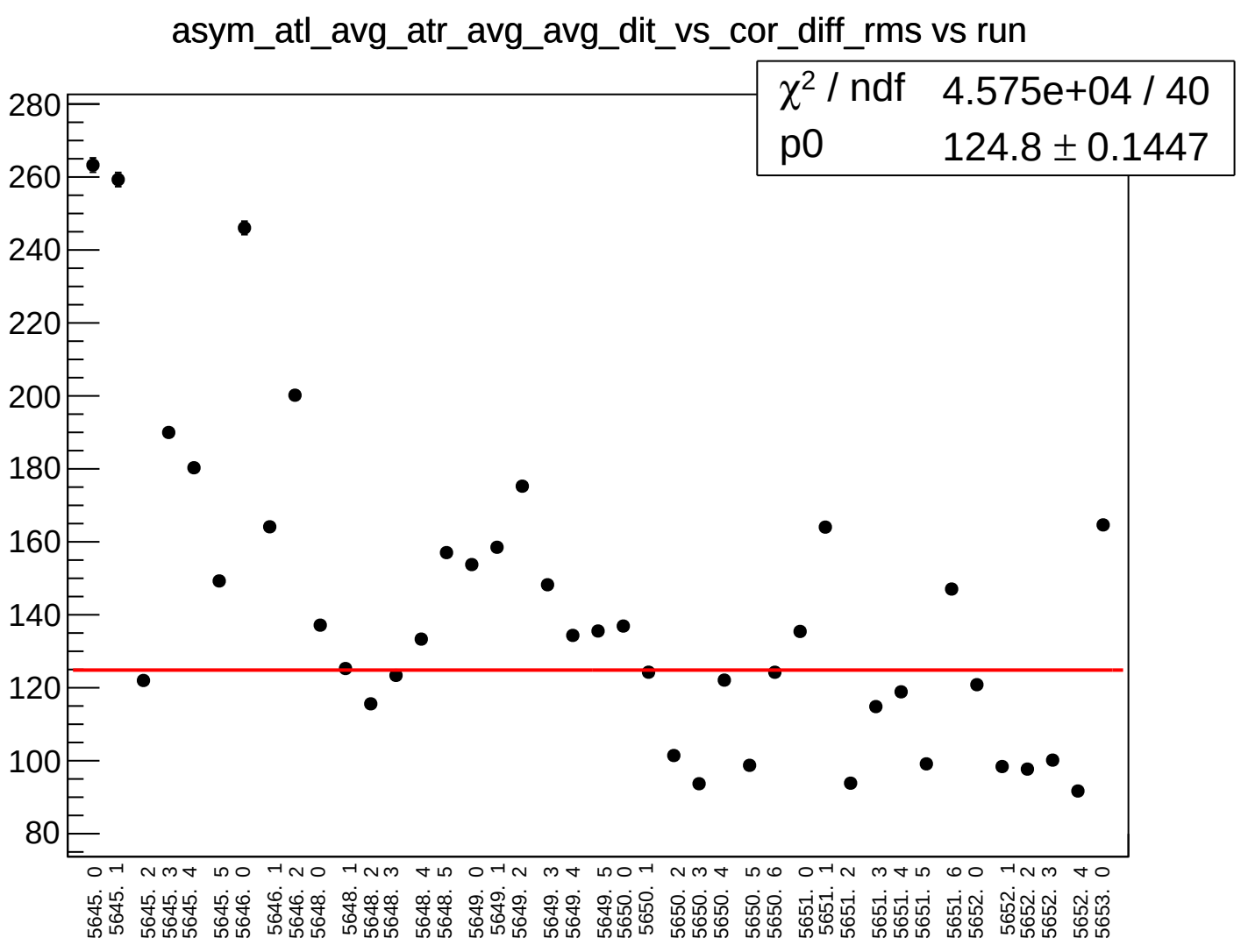

pull1D
Entries 41
Mean −0.03013
Std Dev 0.9936
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

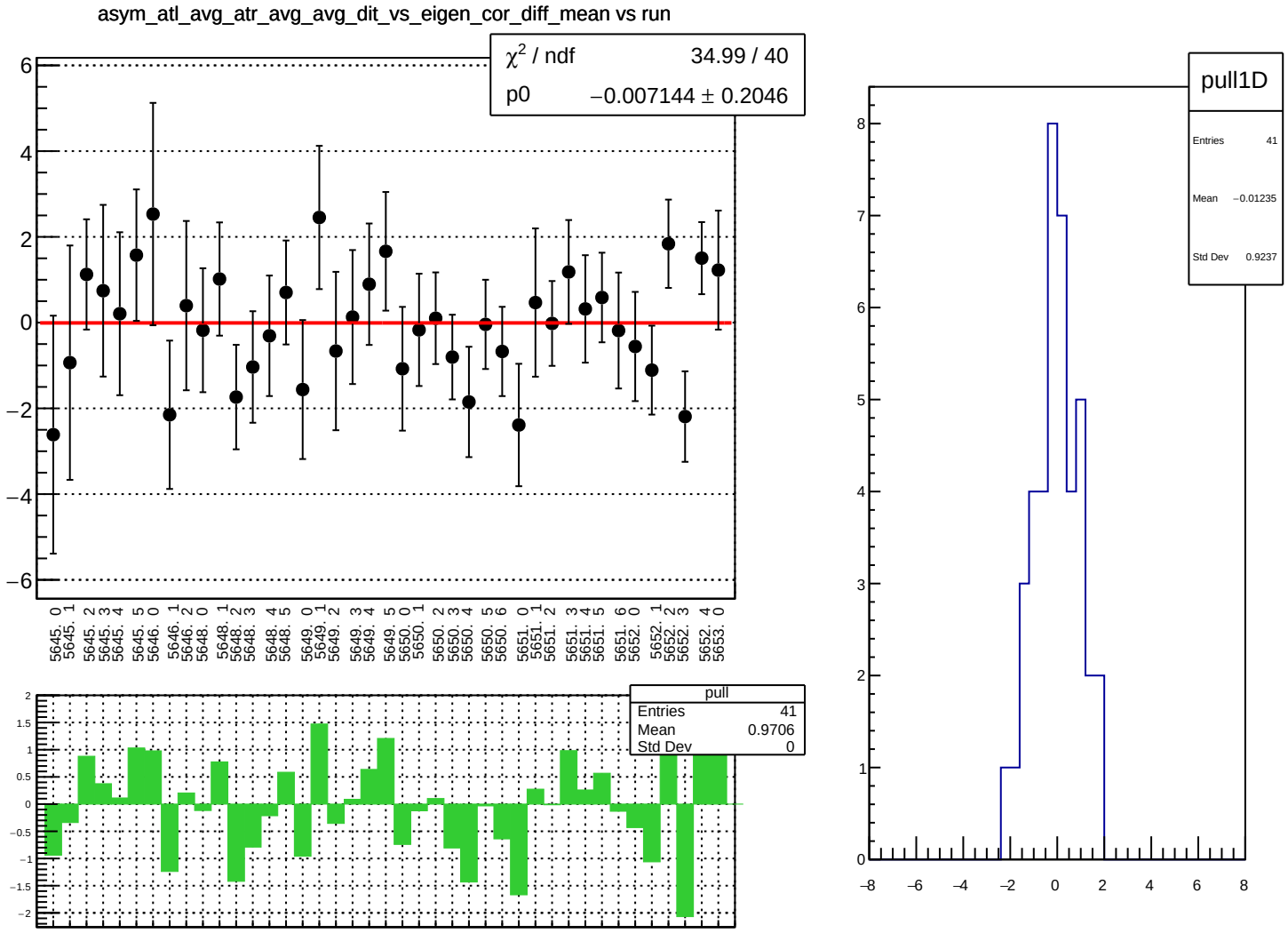

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3439 / 40
p0 3963 ± 4.468
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

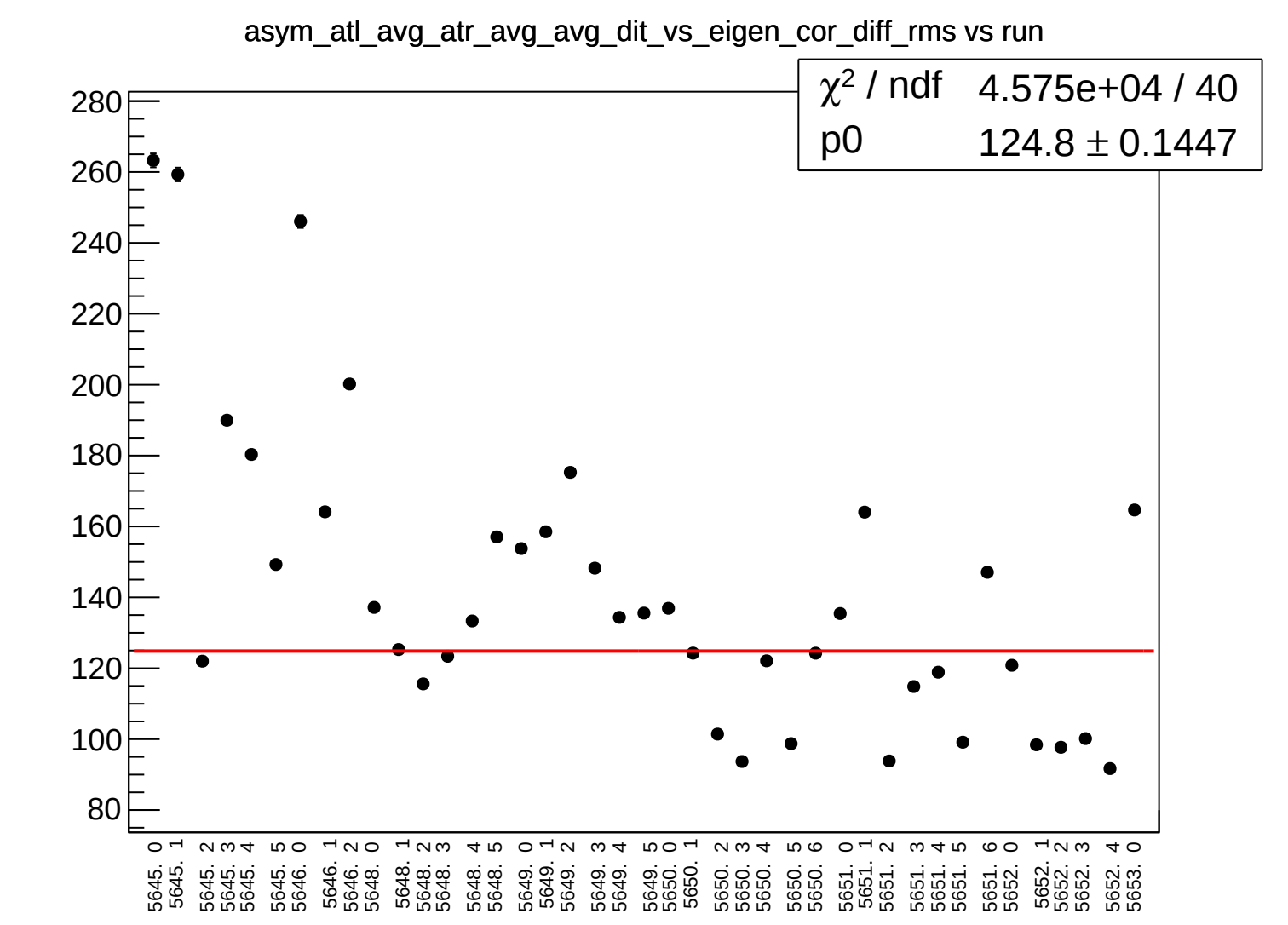

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.87 / 40
p0 −3.14e−13 ± 3.899e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 44.37
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.04492
Std Dev 0.6947
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

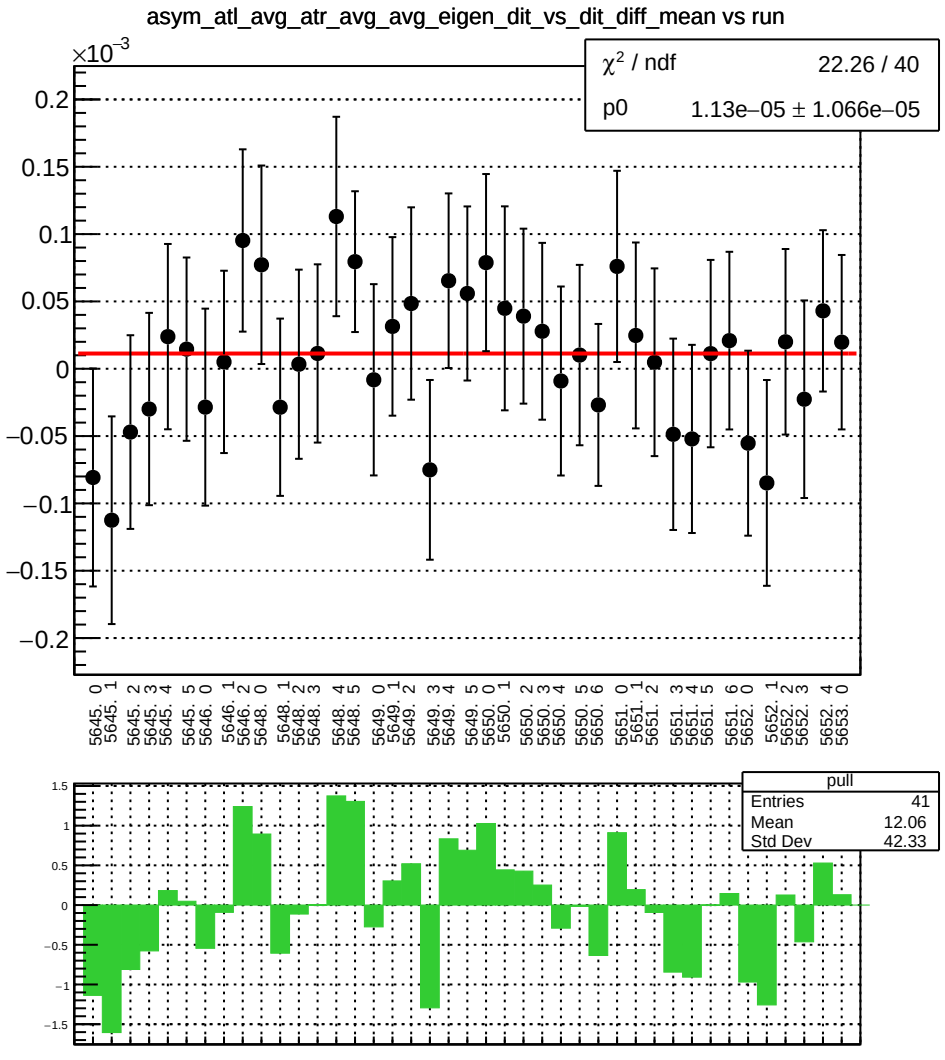

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.778e+05 / 40
p0 1.771e−10 ± 2.757e−13
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

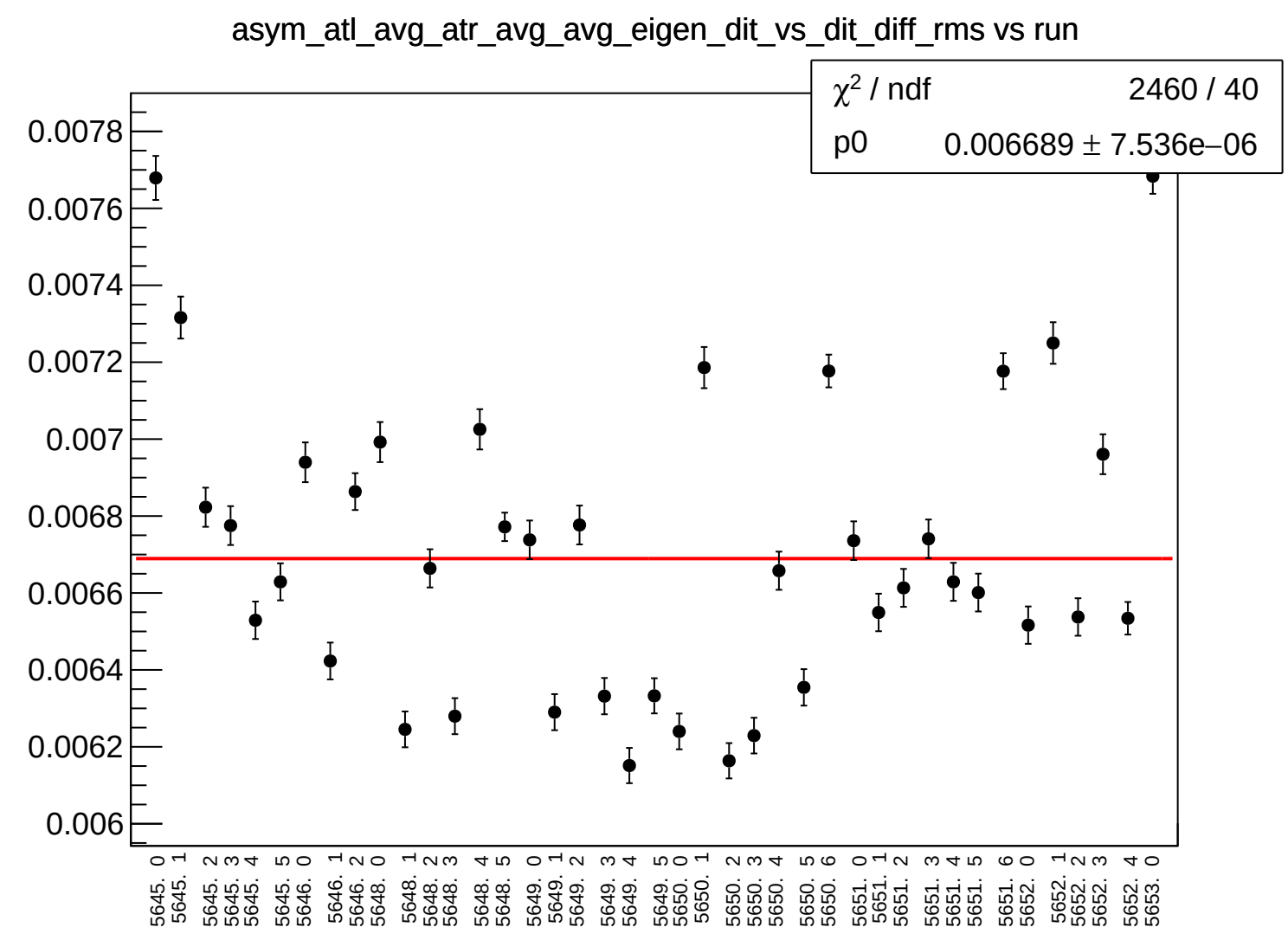

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.99 / 40
p0 −0.007144 ± 0.2046
pull
Entries 41
Mean 0.9706
Std Dev 0
pull1D
Entries 41
Mean −0.01235
Std Dev 0.9237

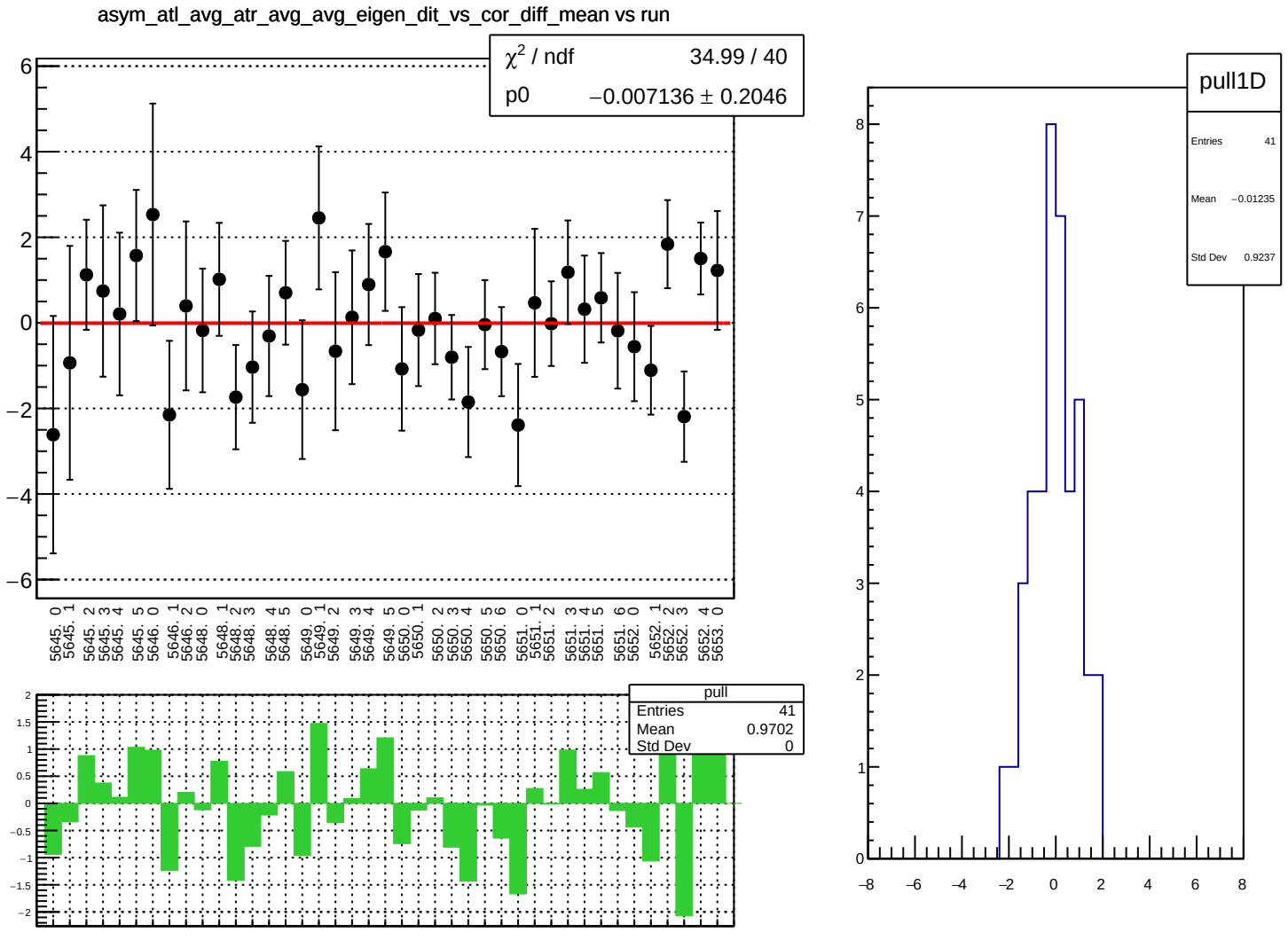

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.575e+04 / 40
p0 124.8 ± 0.1447
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

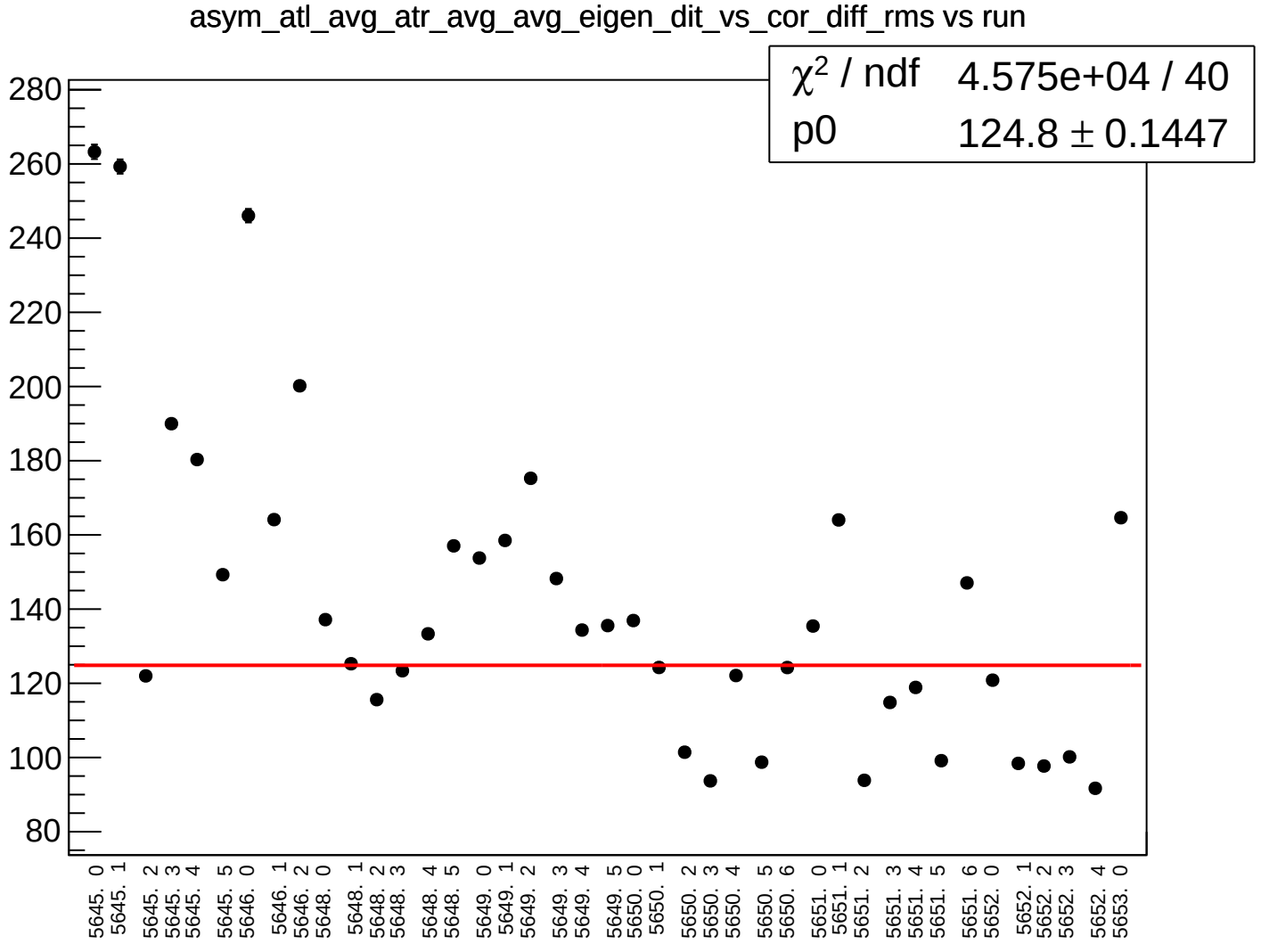

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.99 / 40
p0 −0.007144 ± 0.2046
pull
Entries 41
Mean 0.9706
Std Dev 0
pull1D
Entries 41
Mean −0.01235
Std Dev 0.9237

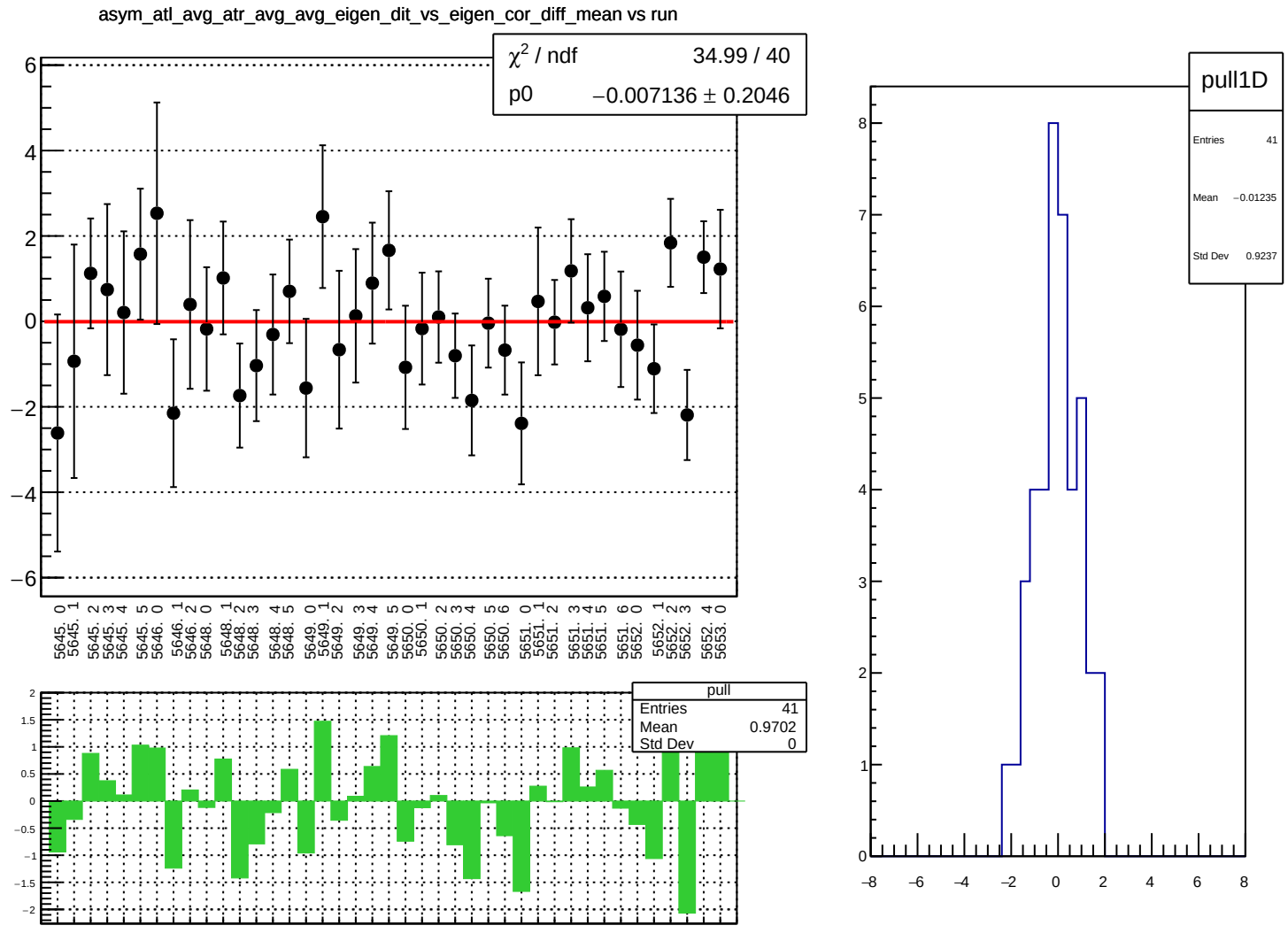

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.575e+04 / 40
p0 124.8 ± 0.1447
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

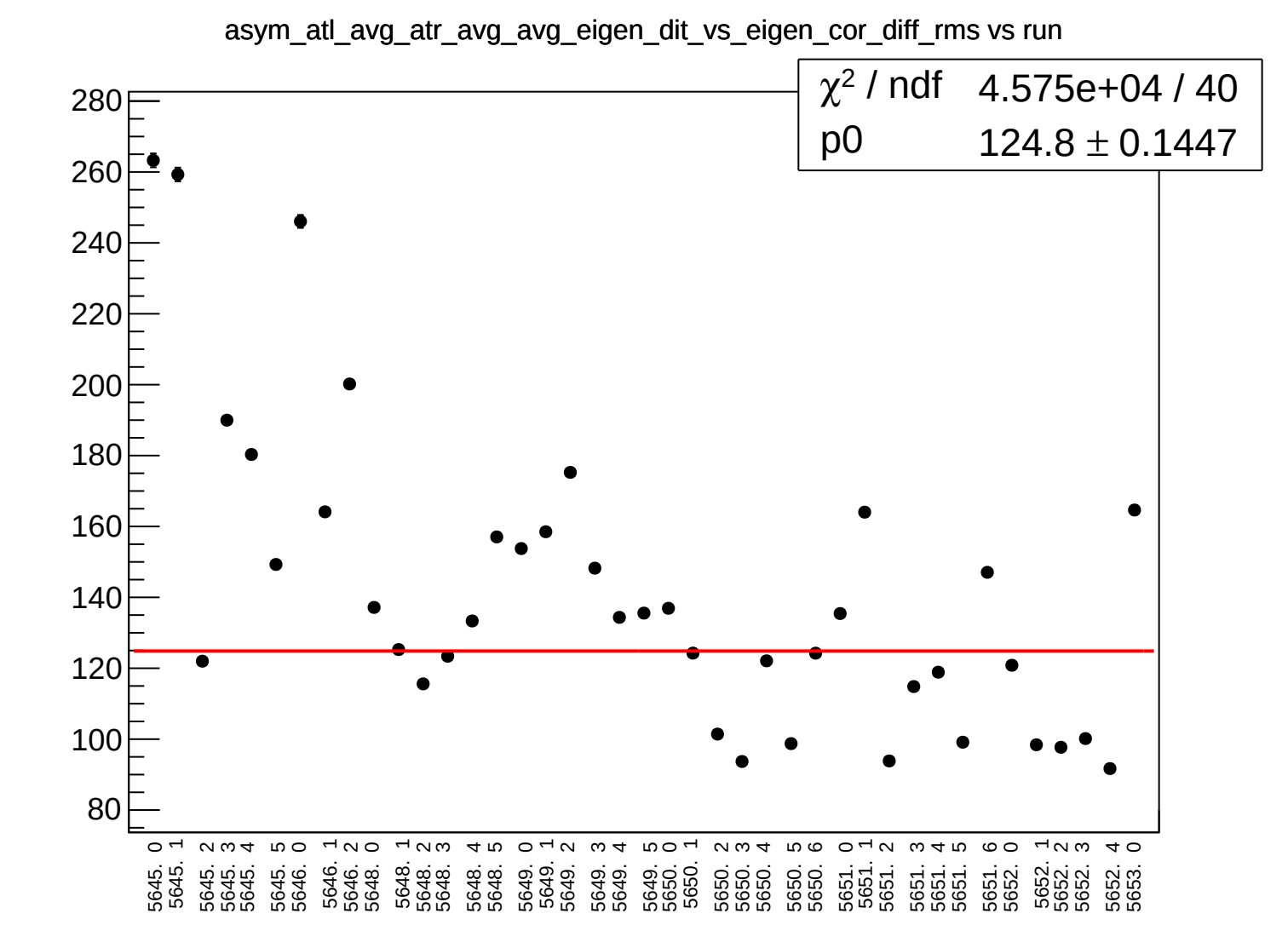

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 22.26 / 40
p0 1.13e−05 ± 1.066e−05
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.06
Std Dev 42.33
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.02327
Std Dev 0.7365
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

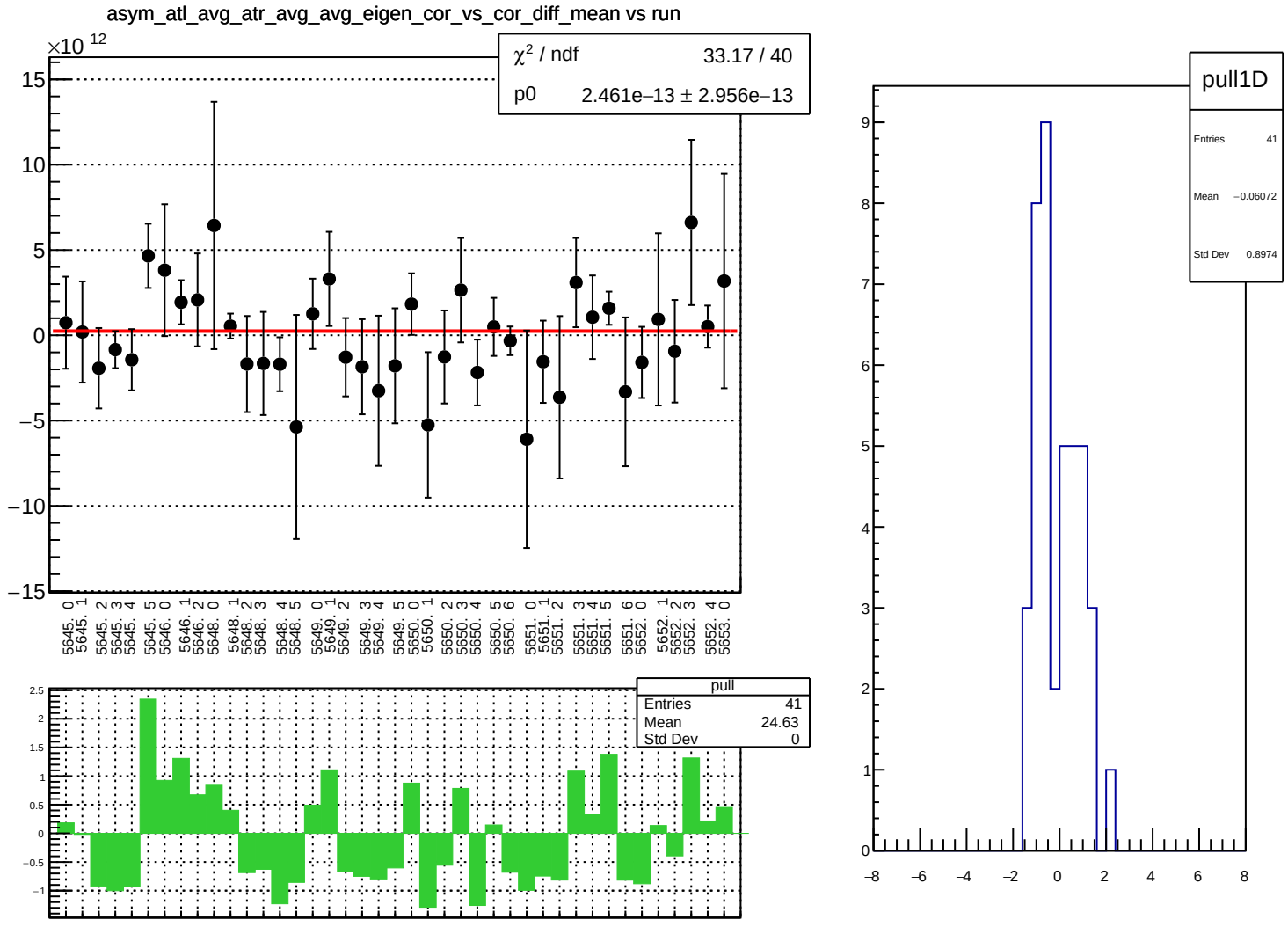

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2460 / 40
p0 0.006689 ± 7.536e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

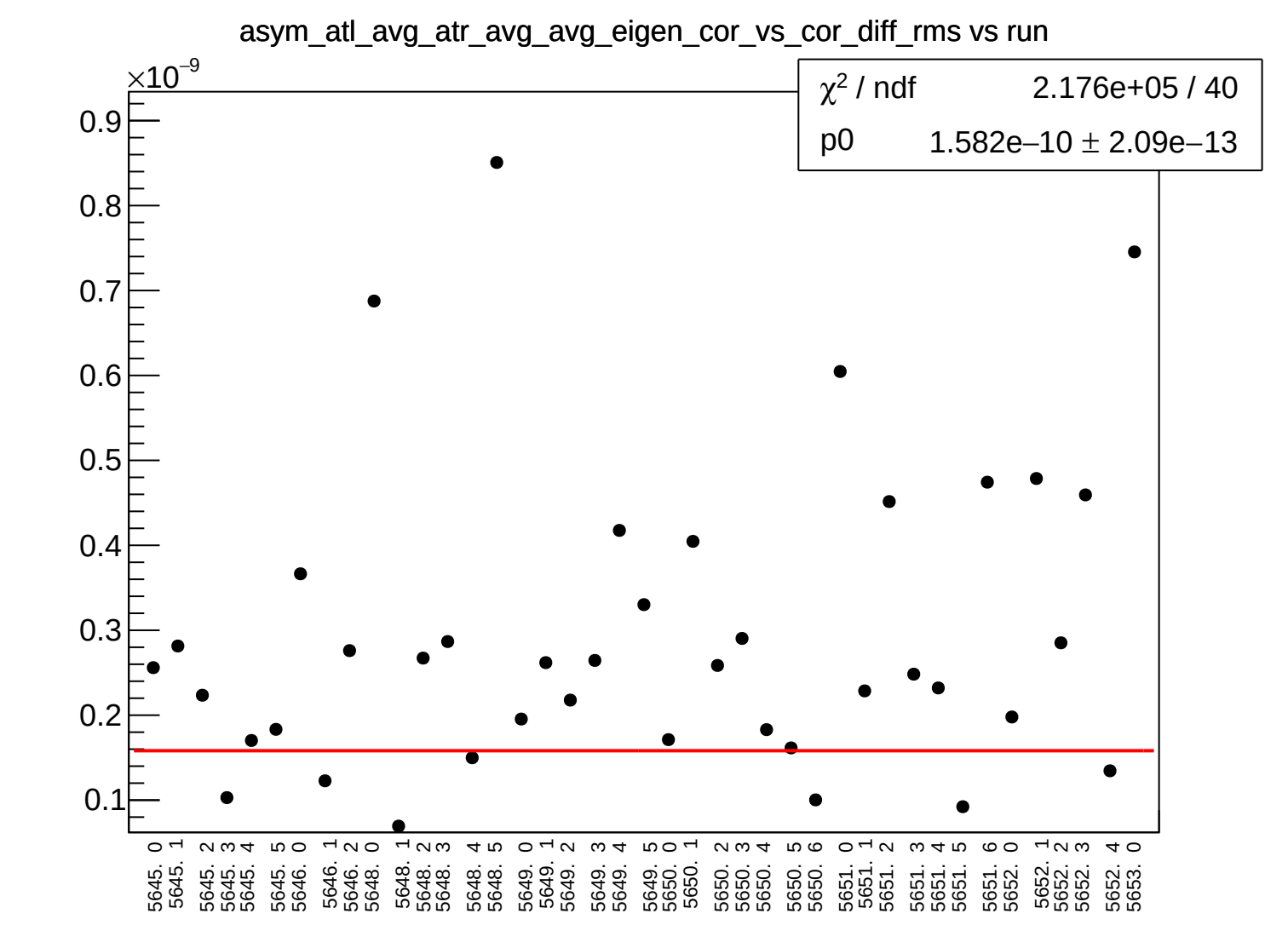

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.99 / 40
p0 −0.007136 ± 0.2046
pull
Entries 41
Mean 0.9702
Std Dev 0
pull1D
Entries 41
Mean −0.01235
Std Dev 0.9237

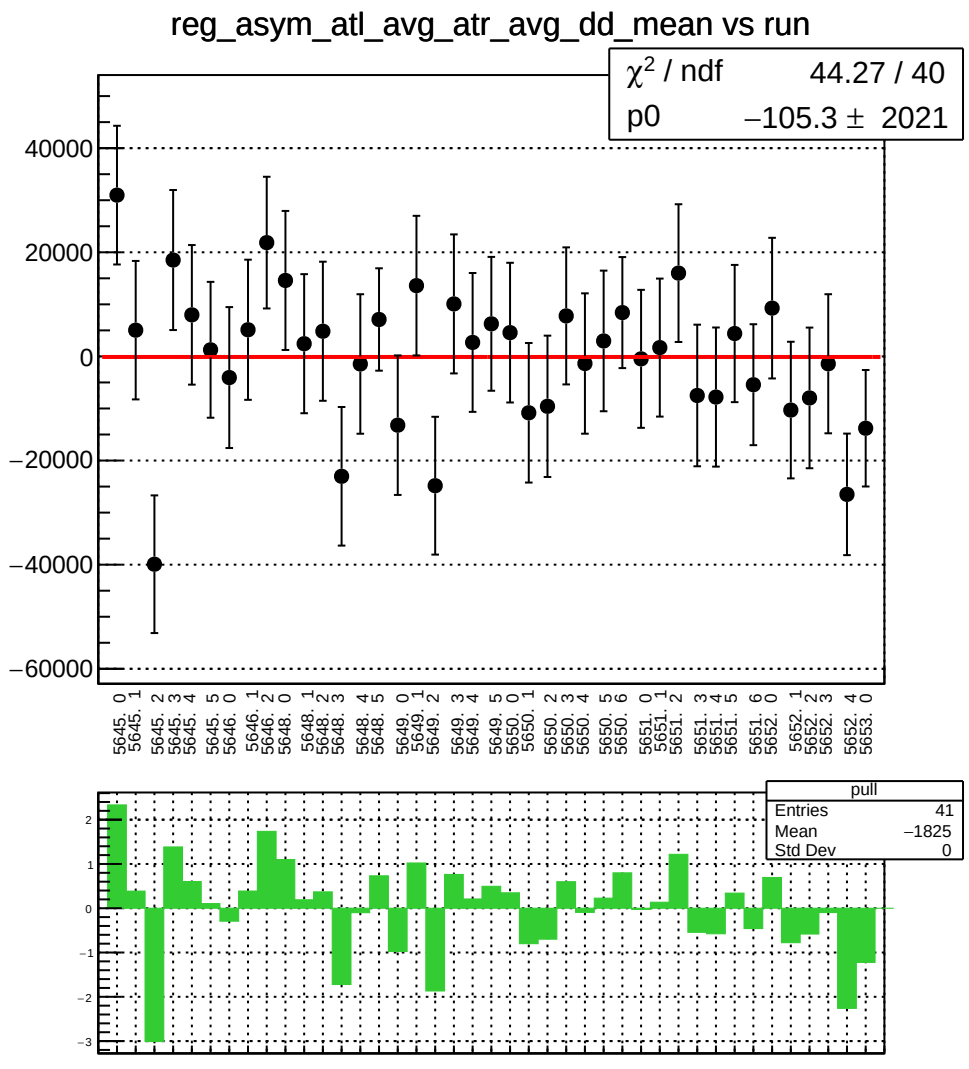

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.575e+04 / 40
p0 124.8 ± 0.1447
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

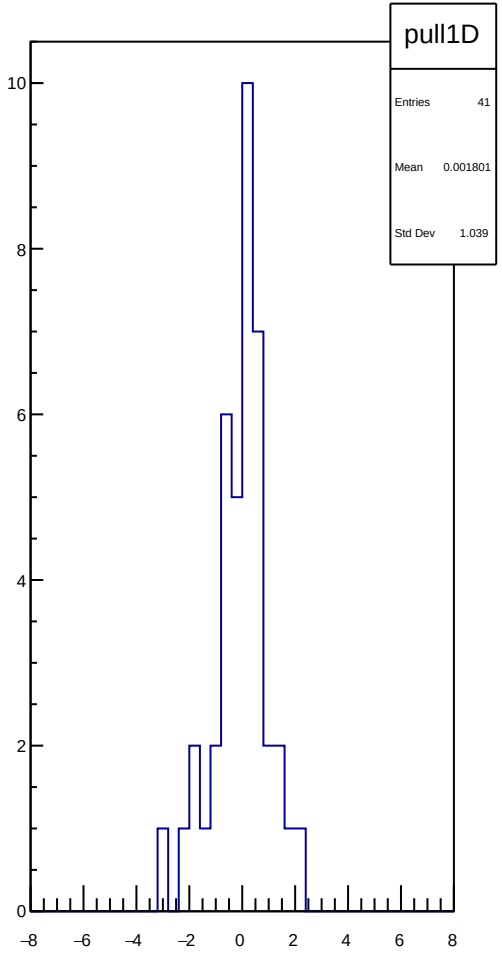

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.99 / 40
p0 −0.007136 ± 0.2046
pull
Entries 41
Mean 0.9702
Std Dev 0
pull1D
Entries 41
Mean −0.01235
Std Dev 0.9237

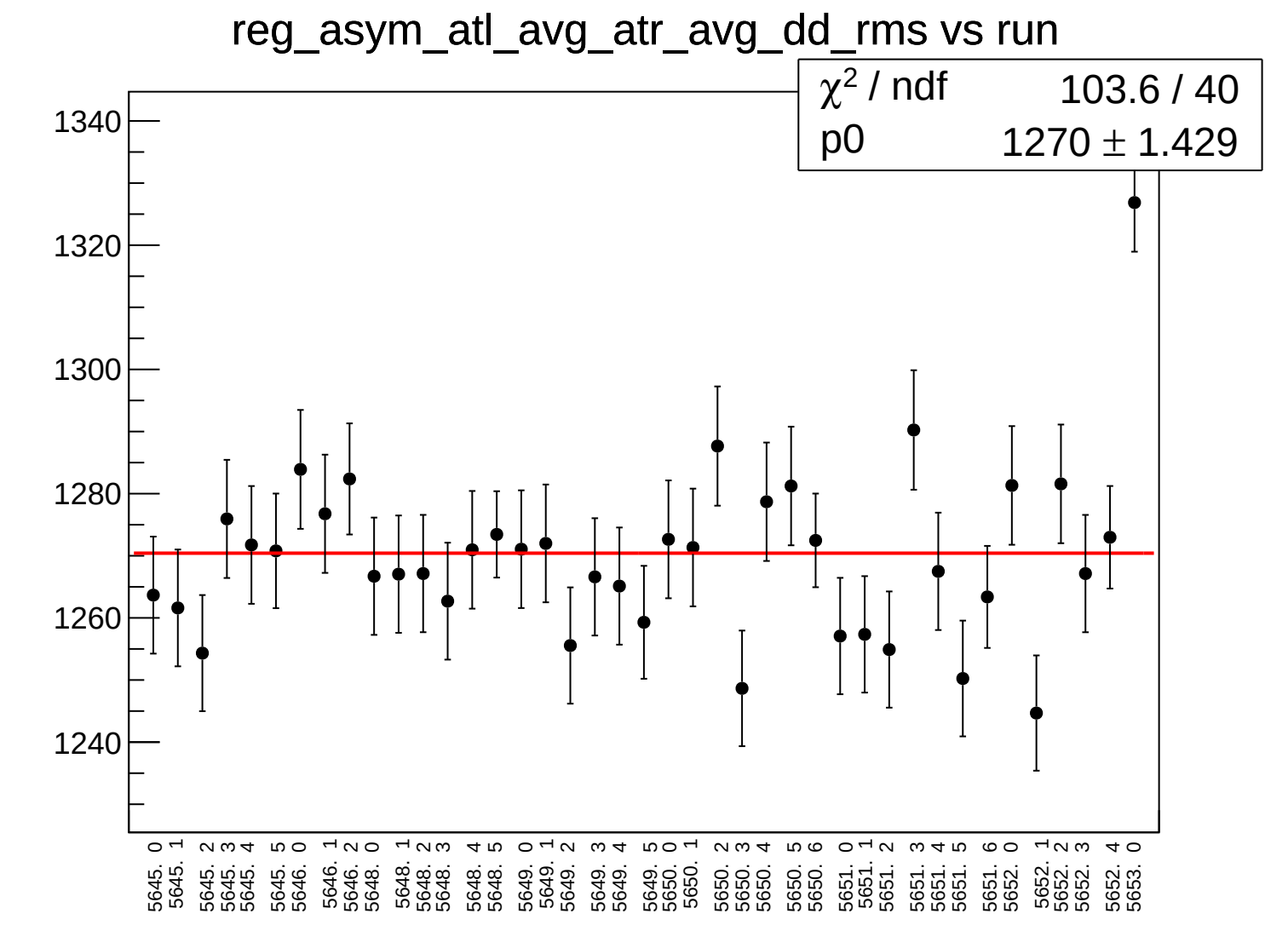

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.575e+04 / 40
p0 124.8 ± 0.1447
280
260
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

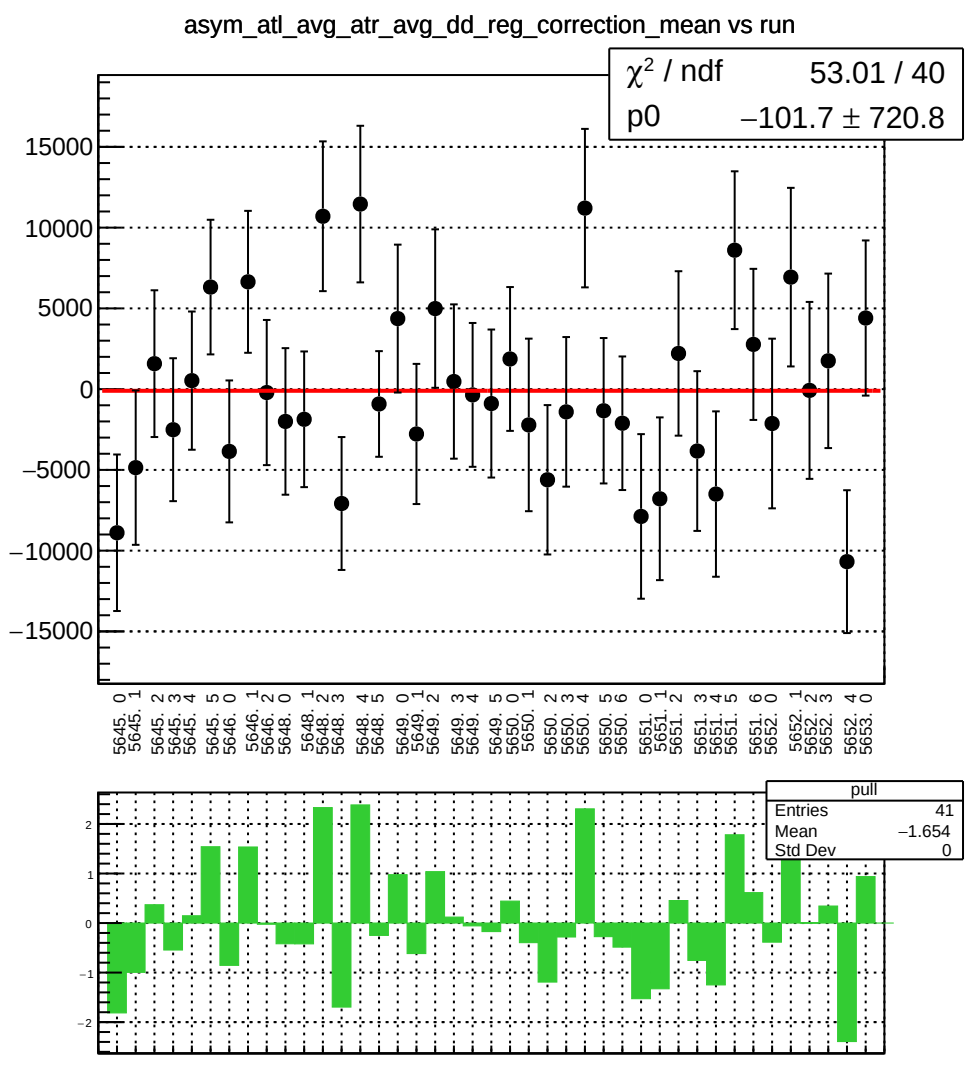

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.17 / 40
p0 2.461e−13 ± 2.956e−13
pull
Entries 41
Mean 24.63
Std Dev 0
pull1D
Entries 41
Mean −0.06072
Std Dev 0.8974

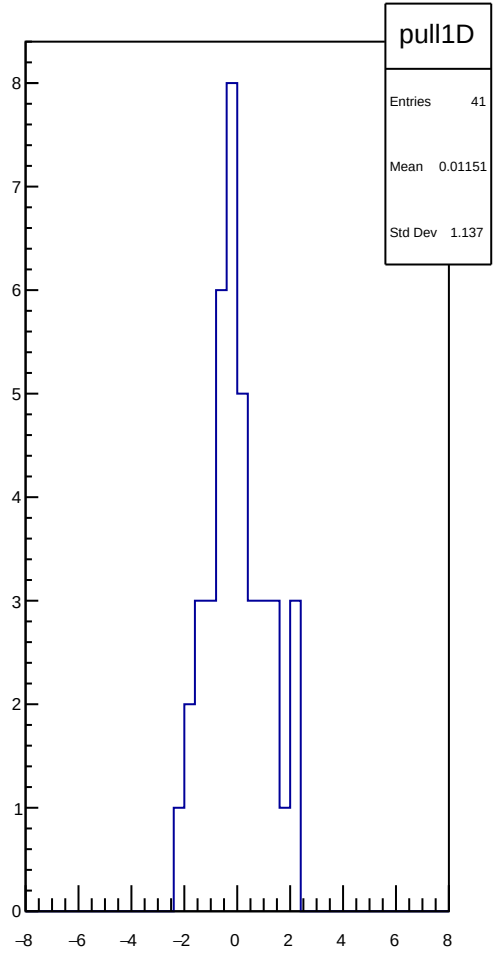

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.176e+05 / 40
p0 1.582e−10 ± 2.09e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

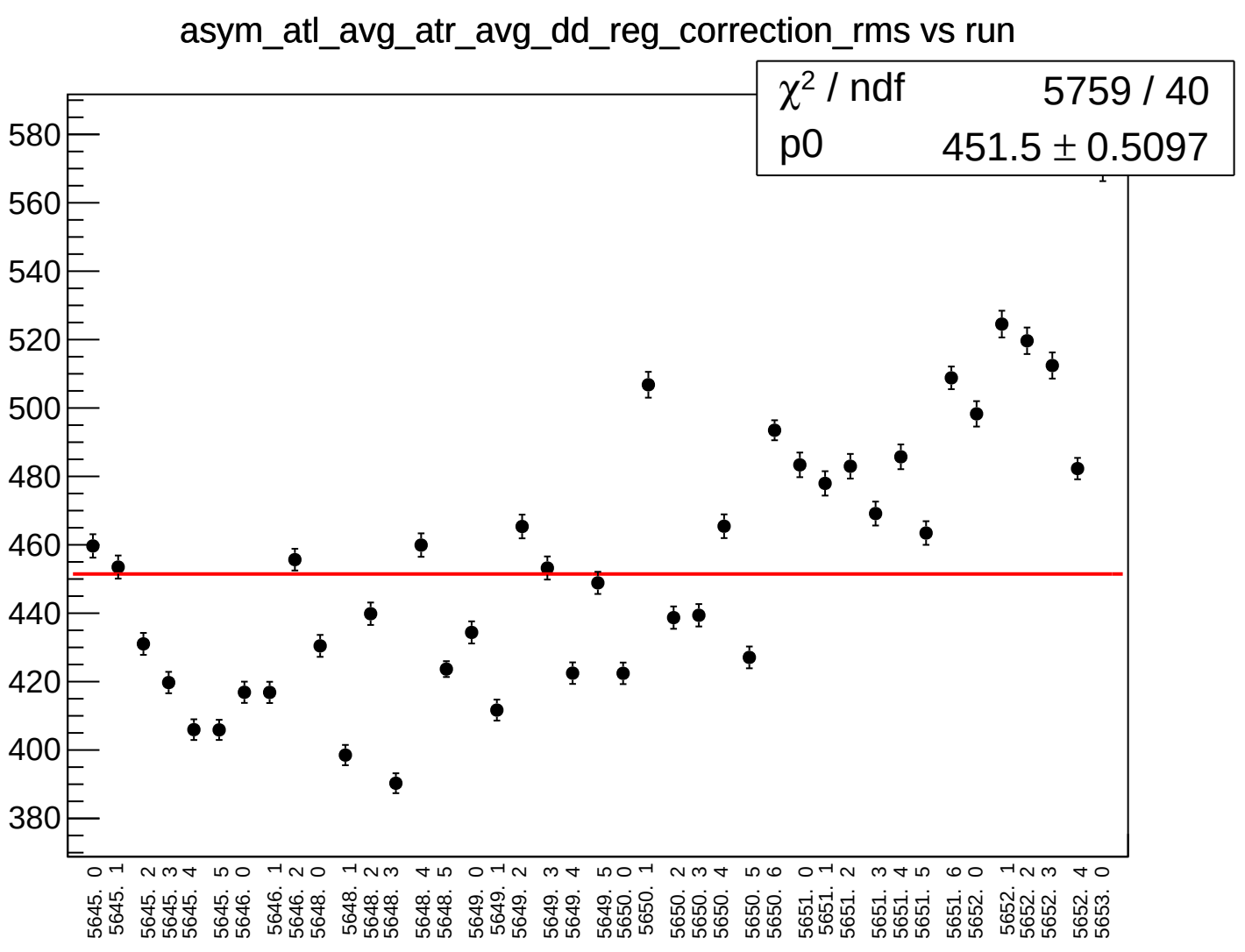

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.27 / 40
p0 −105.3 ± 2021
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1825
Std Dev 0
2
1
0
−1
−2
−3

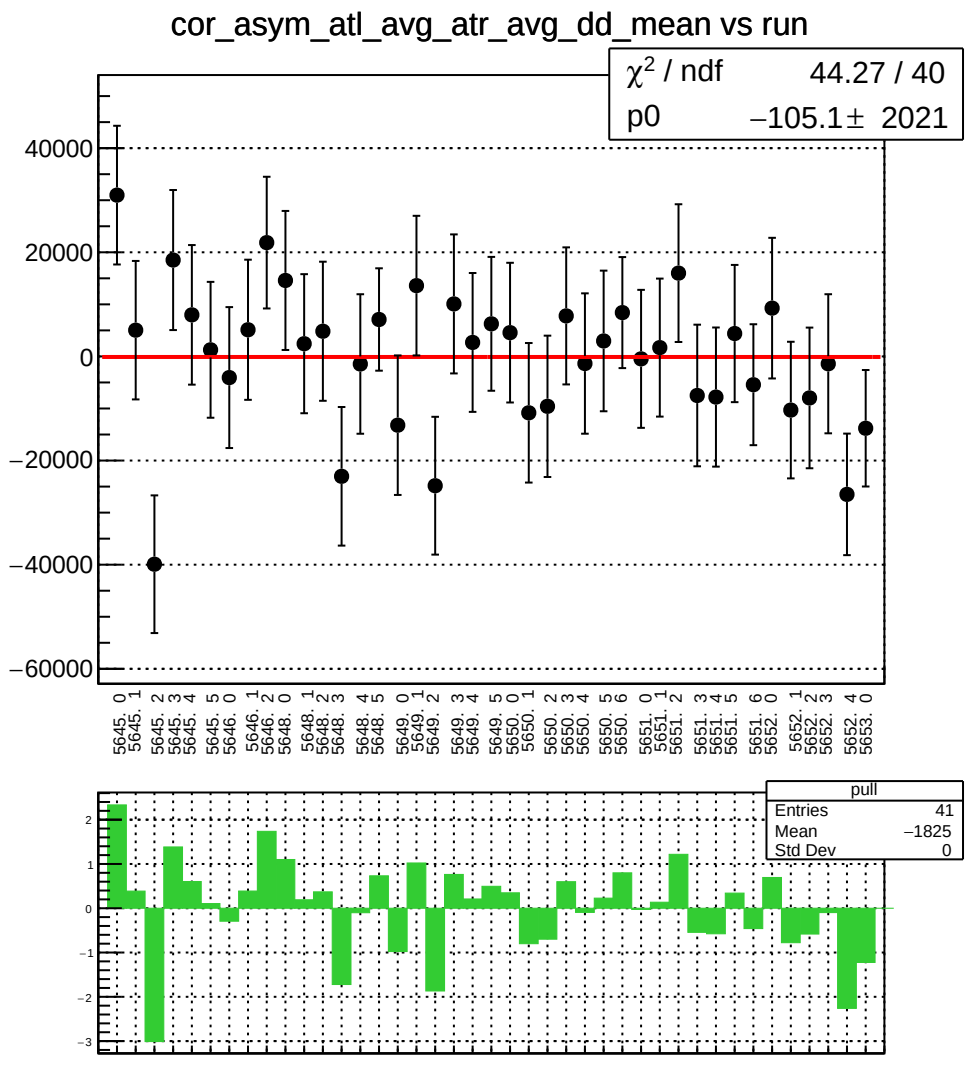

pull1D
Entries 41
Mean 0.001801
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

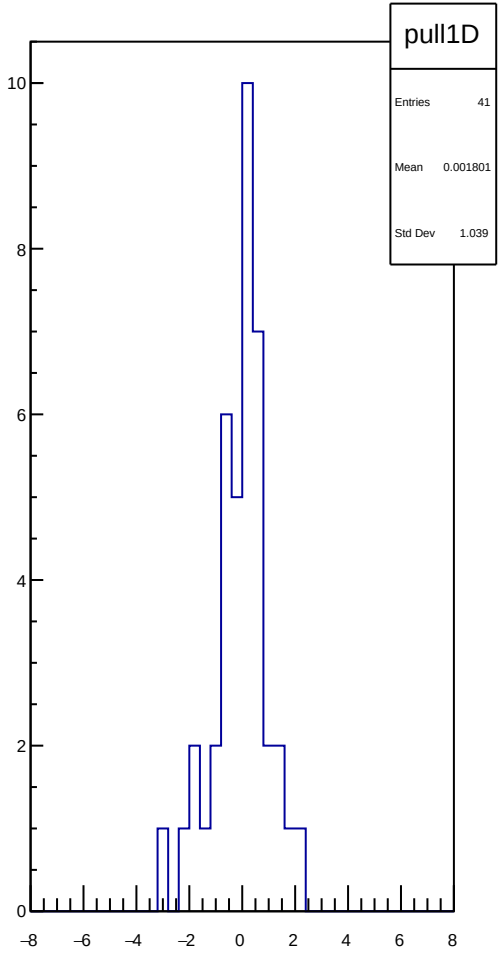

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.6 / 40
p0 1270 ± 1.429
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

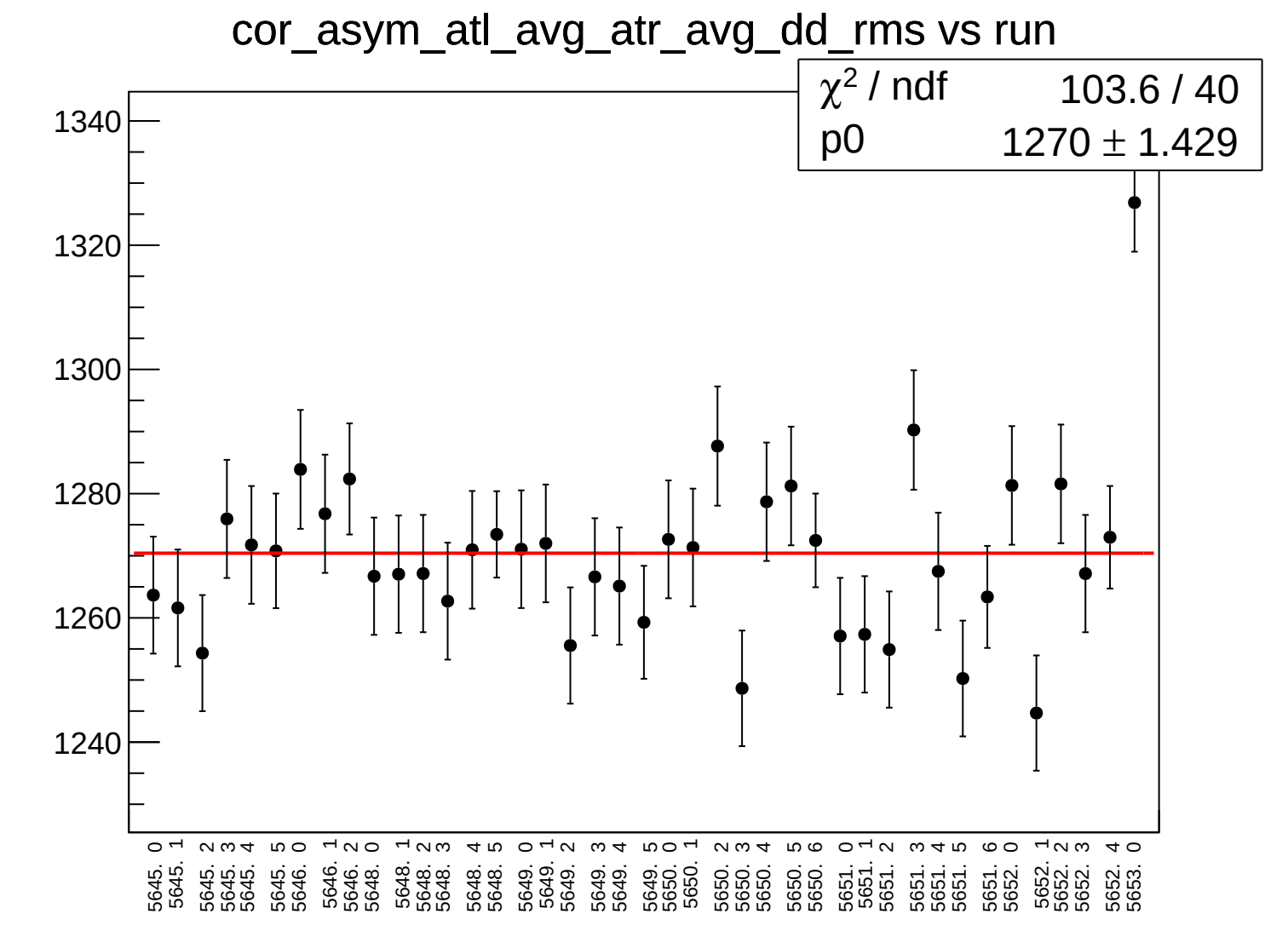

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 53.01 / 40
p0 −101.7 ± 720.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.654
Std Dev 0
2
1
0
−1
−2

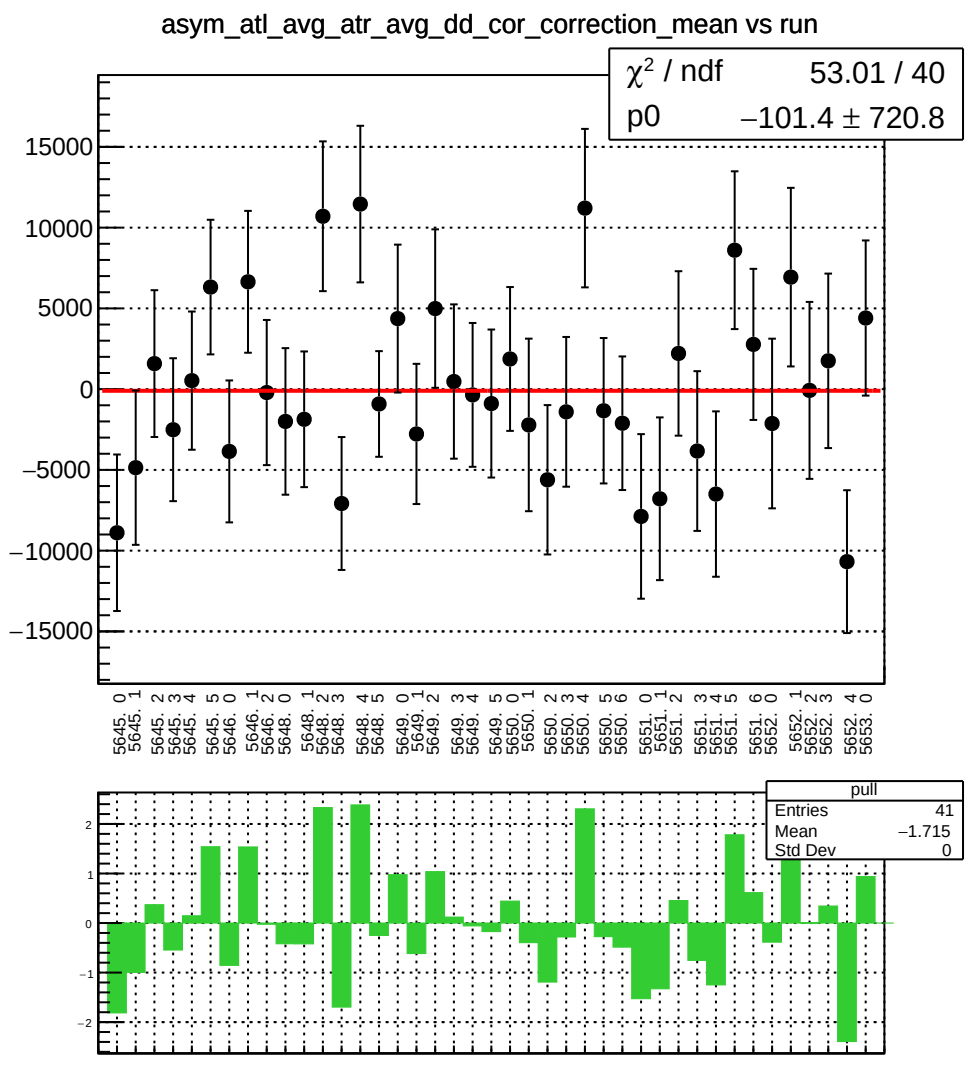

pull1D
Entries 41
Mean 0.01151
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

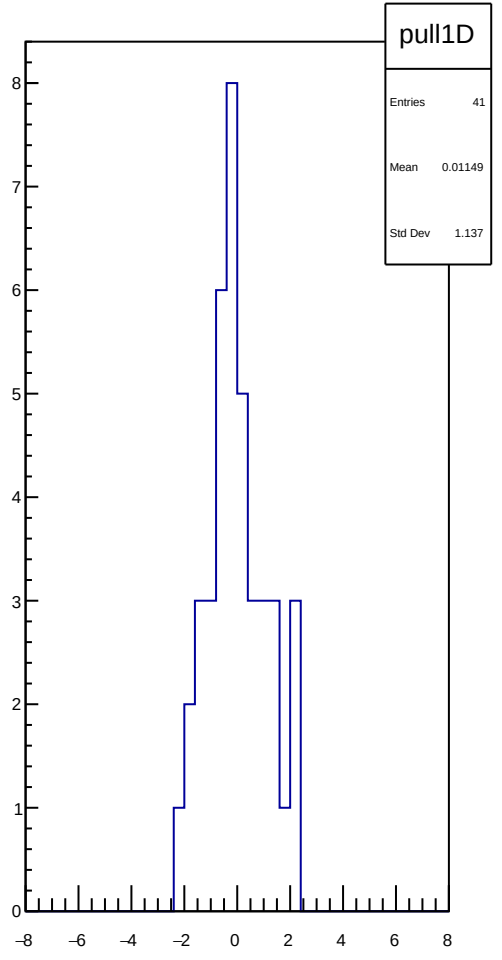

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 5759 / 40
p0 451.5 ± 0.5097
580
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

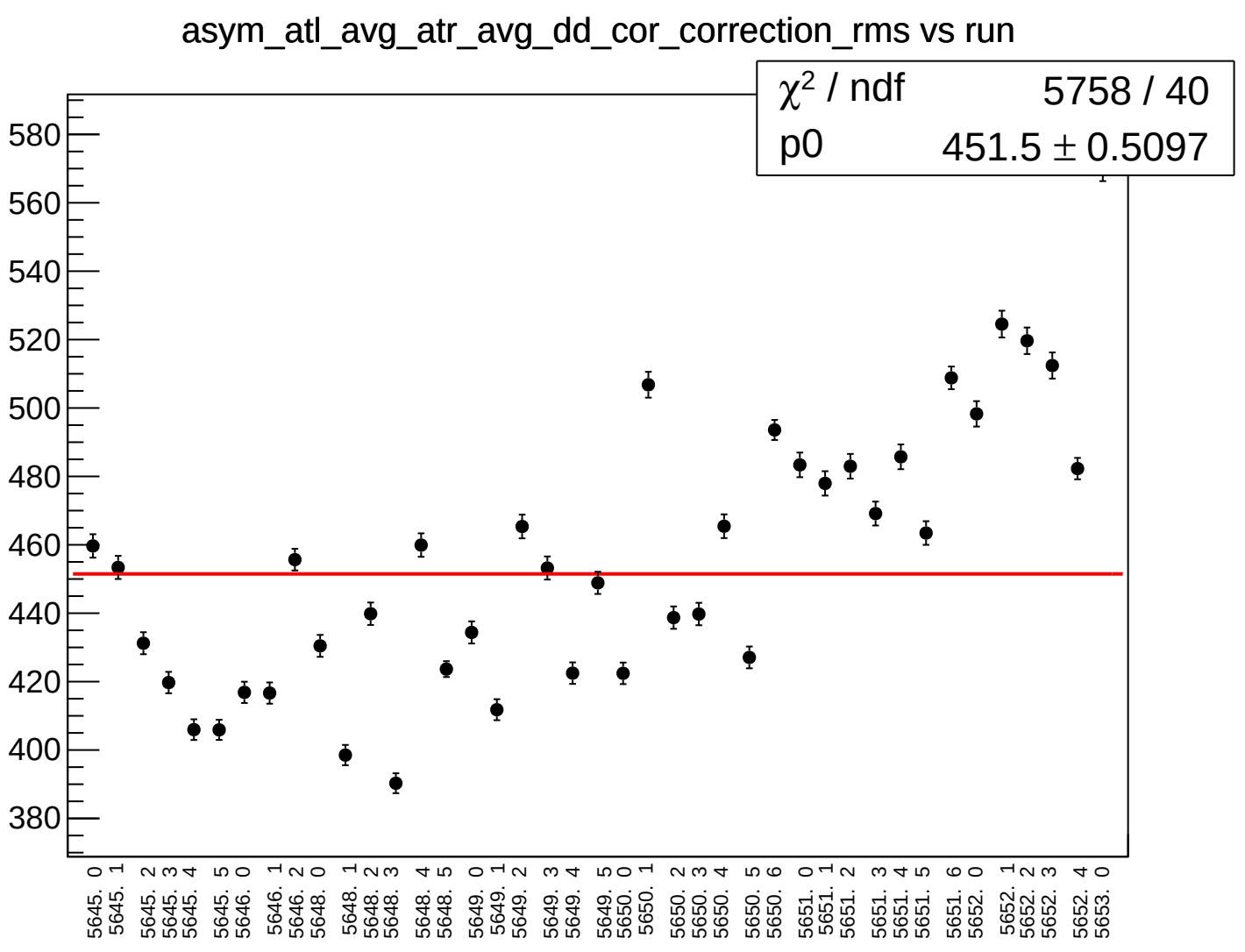

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.27 / 40
p0 −105.1± 2021
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1825
Std Dev 0
2
1
0
−1
−2
−3

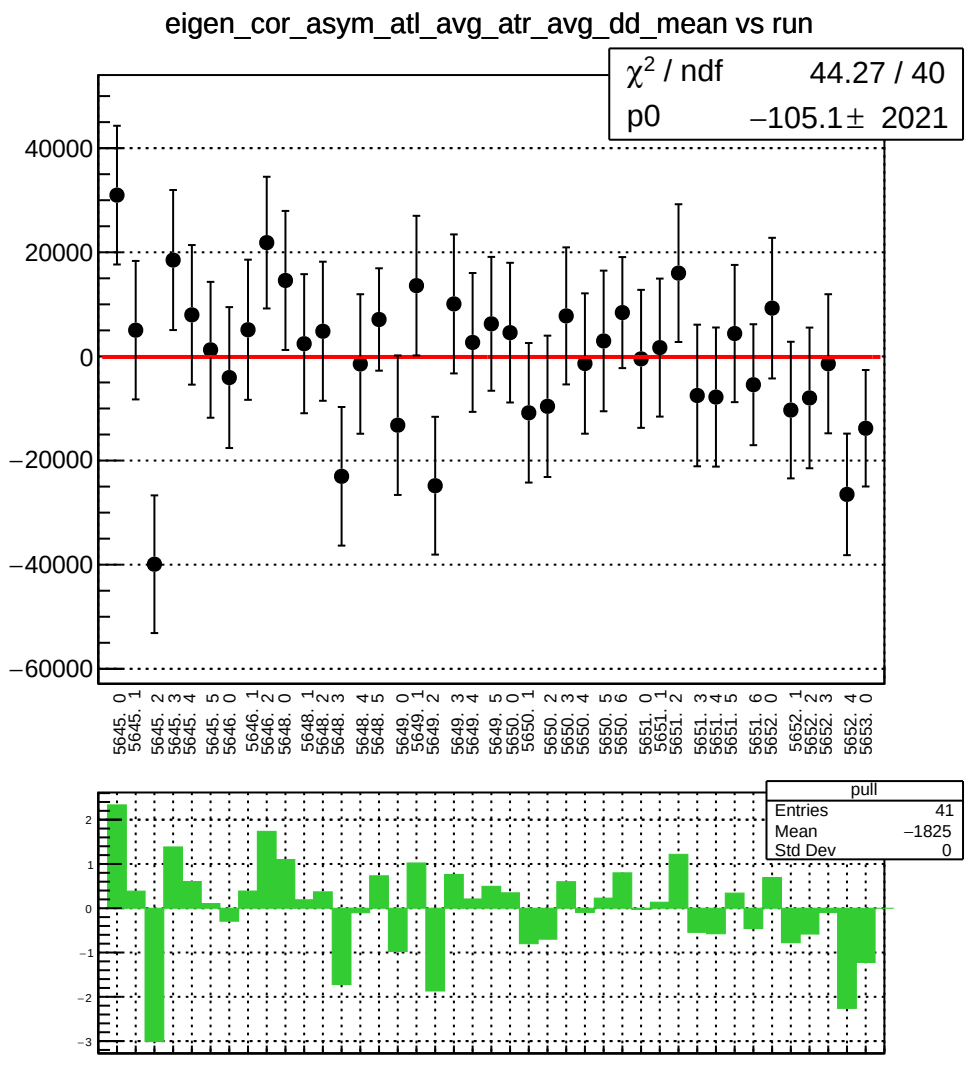

pull1D
Entries 41
Mean 0.001801
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

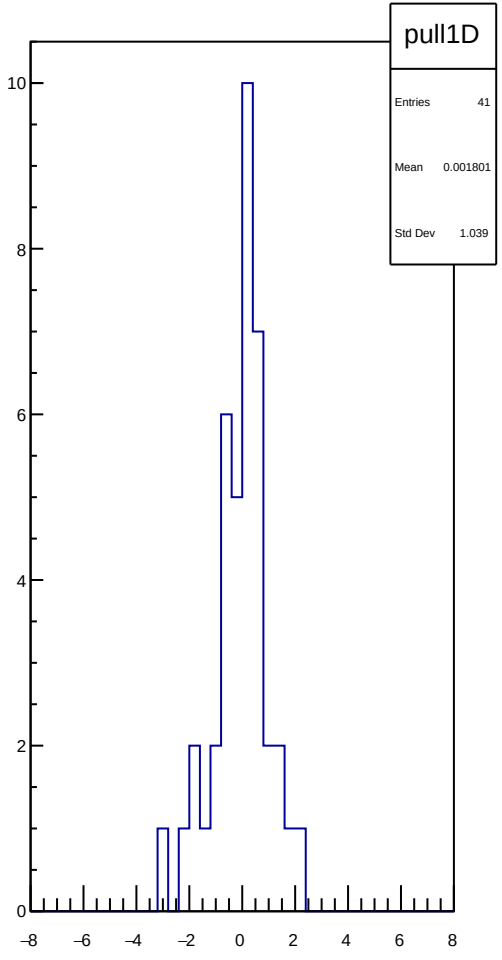

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.6 / 40
p0 1270 ± 1.429
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

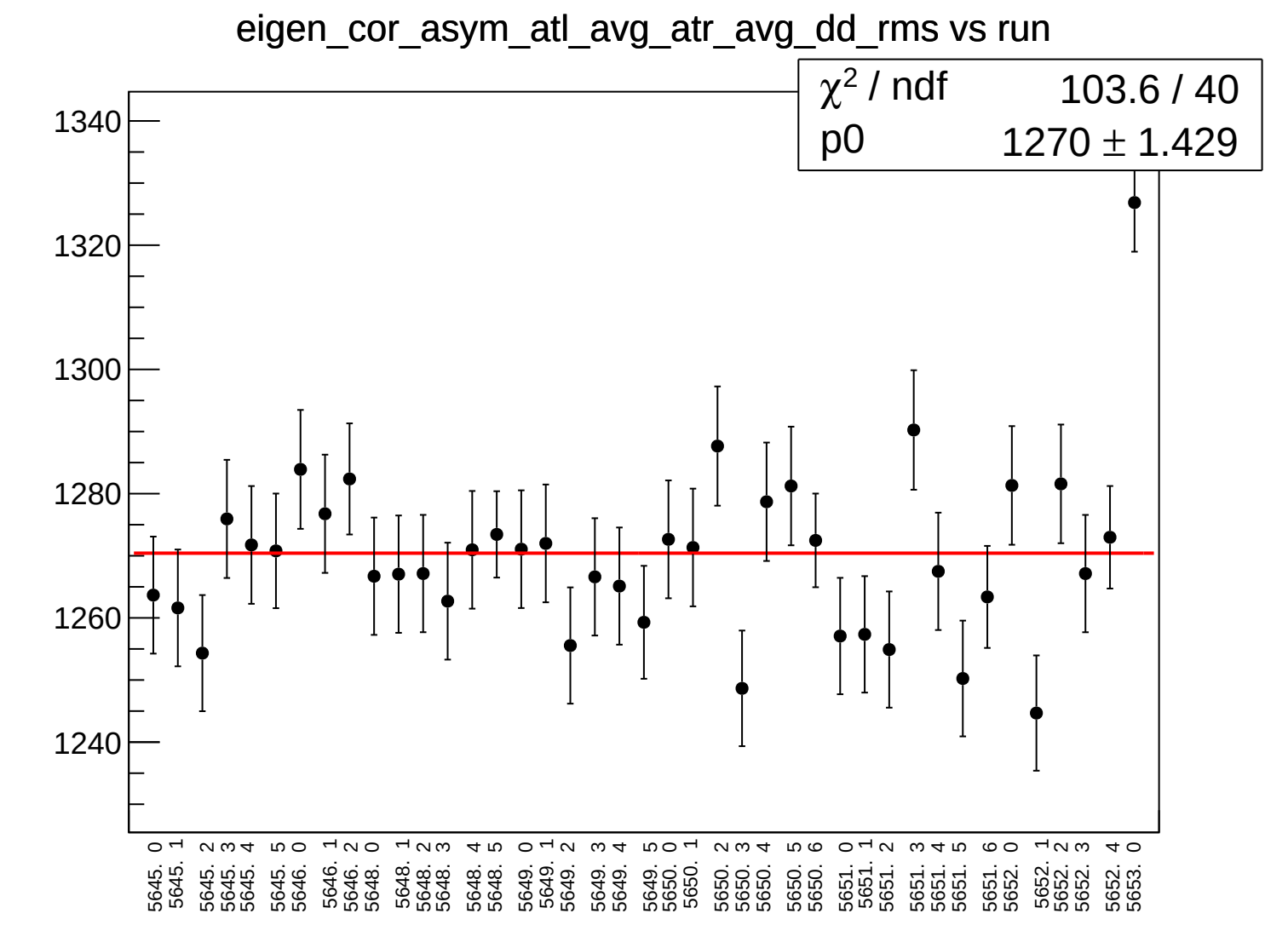

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 53.01 / 40
p0 −101.4 ± 720.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.715
Std Dev 0
2
1
0
−1
−2

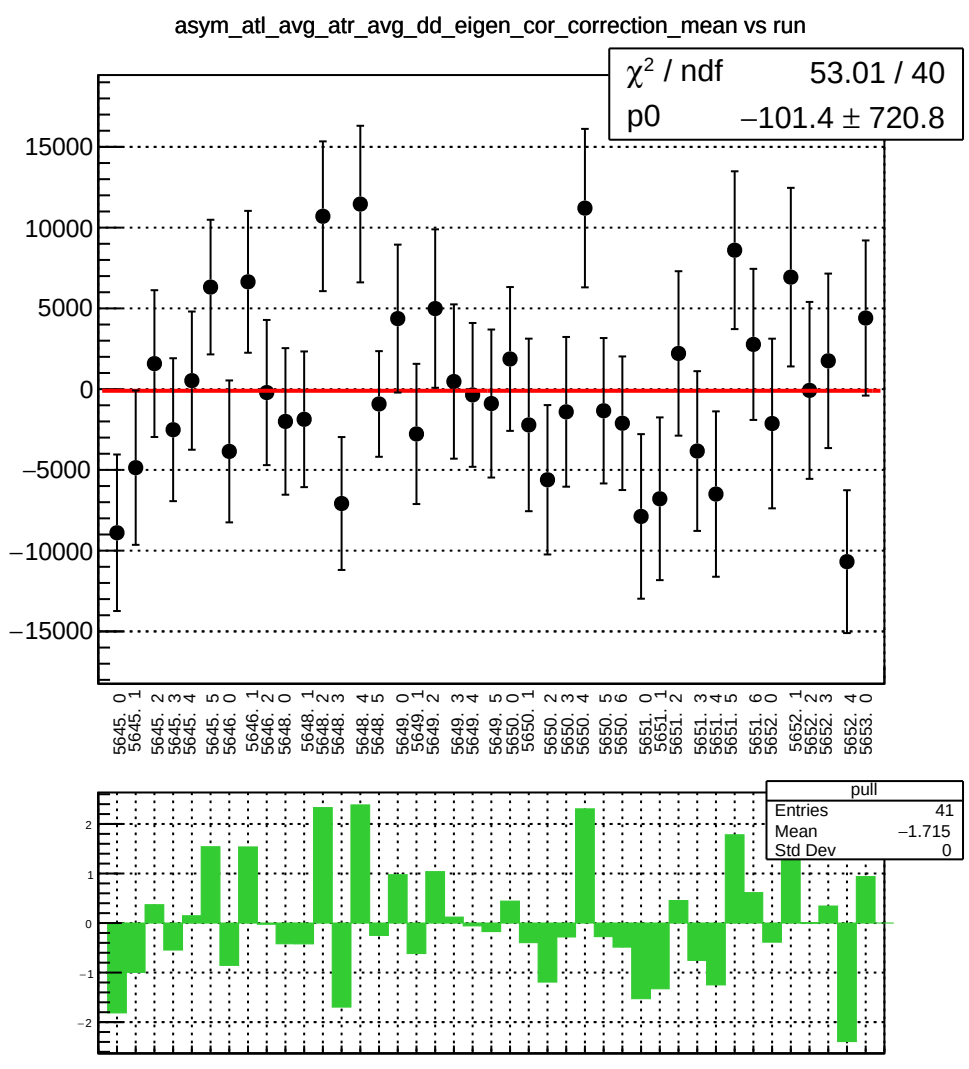

pull1D
Entries 41
Mean 0.01149
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

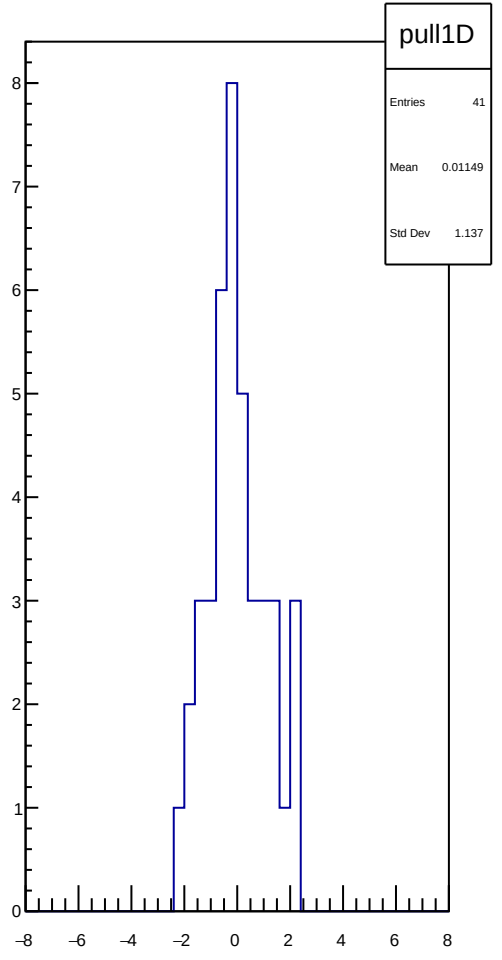

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 5758 / 40
p0 451.5 ± 0.5097
580
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

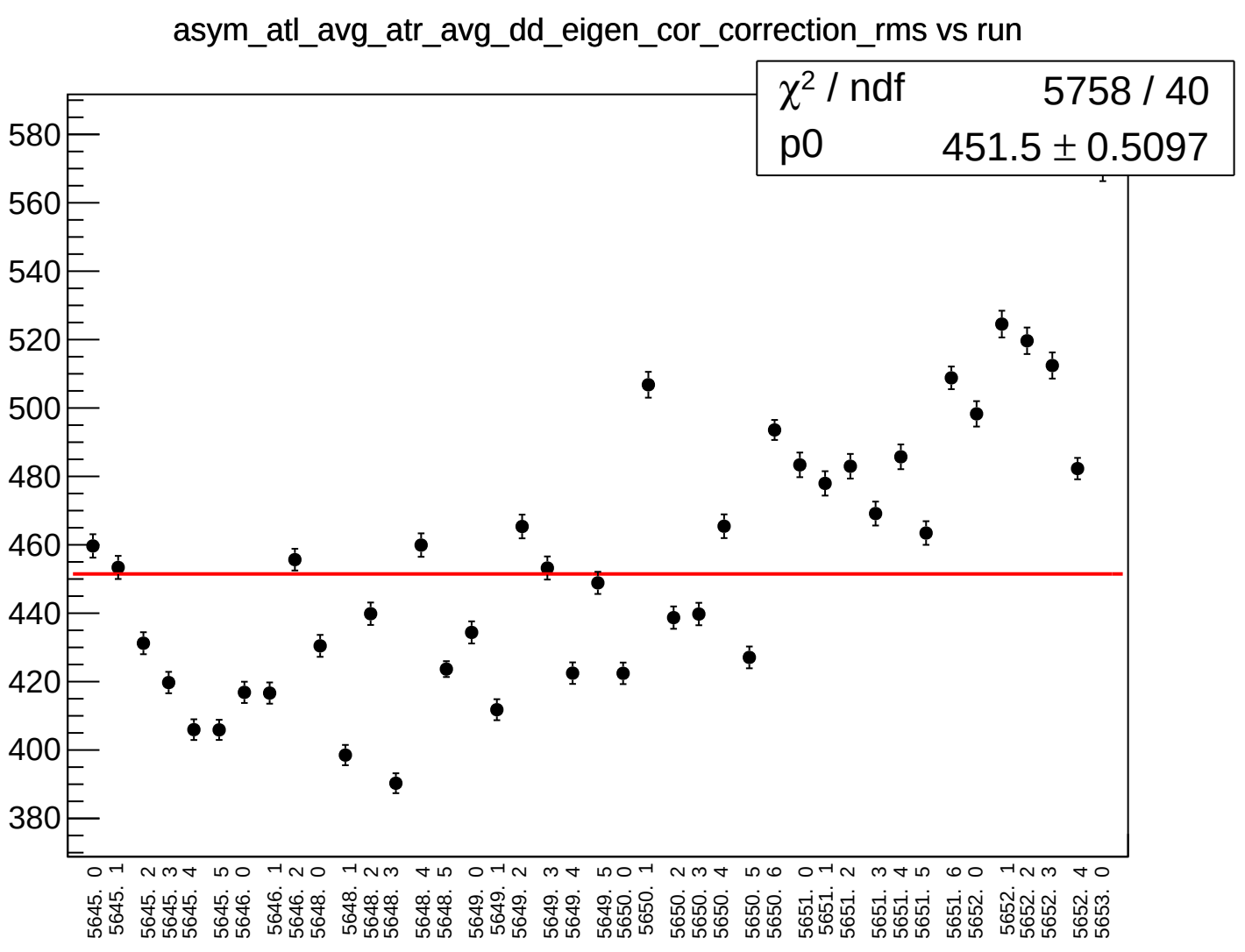

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.27 / 40
p0 −105.1± 2021
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1825
Std Dev 0
2
1
0
−1
−2
−3

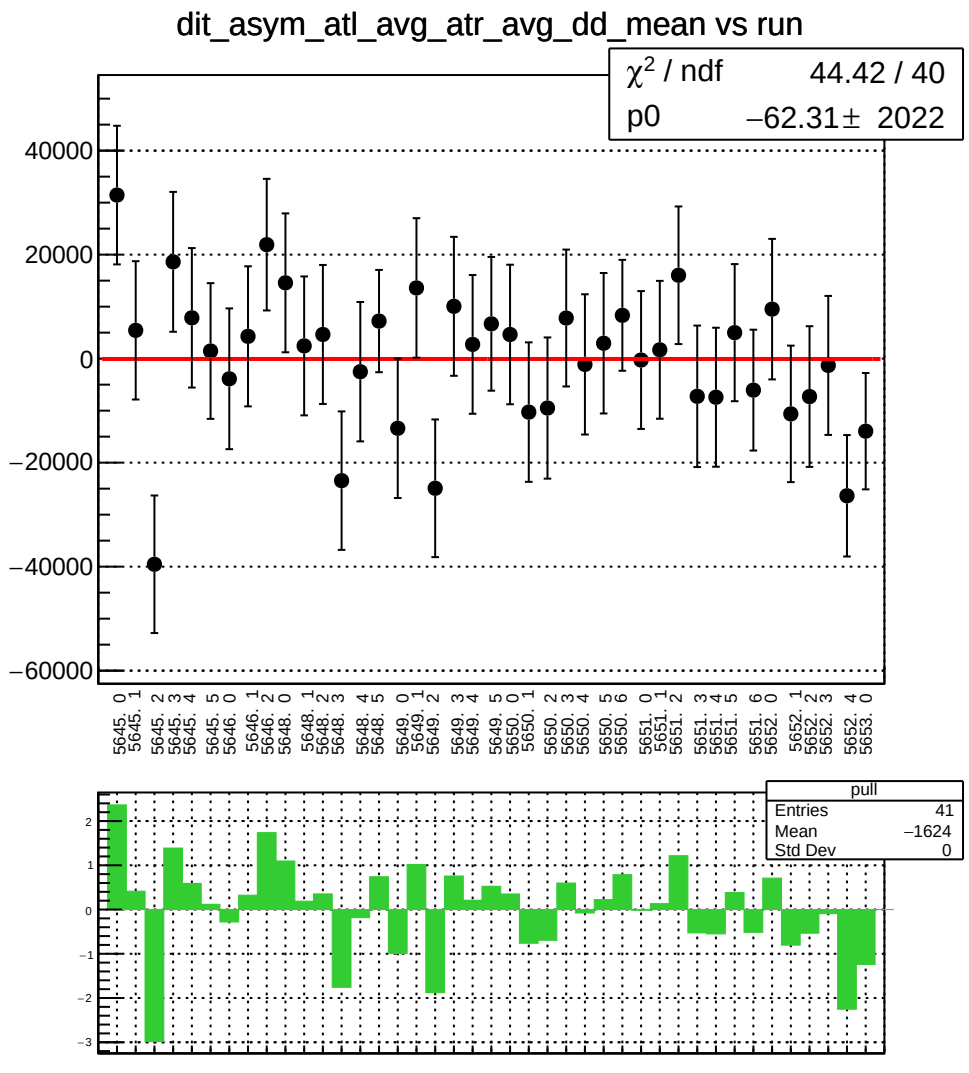

pull1D
Entries 41
Mean 0.001801
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

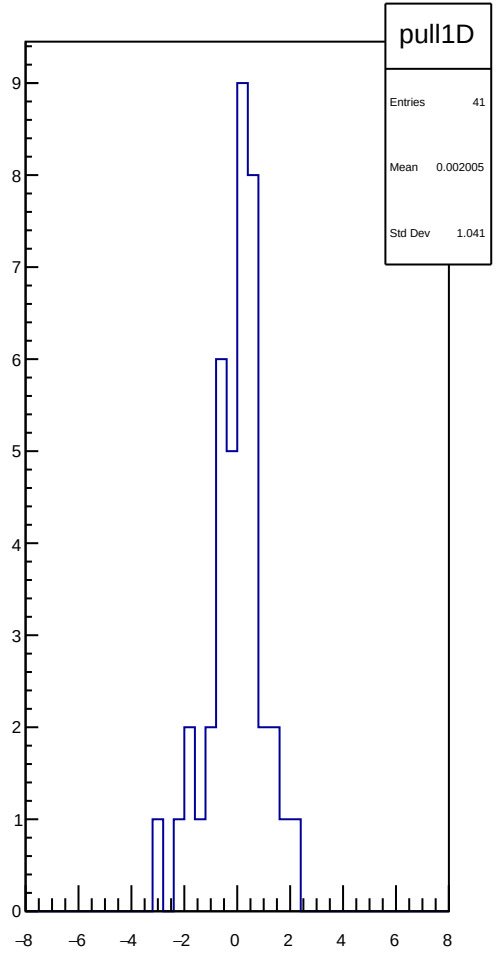

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.6 / 40
p0 1270 ± 1.429
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

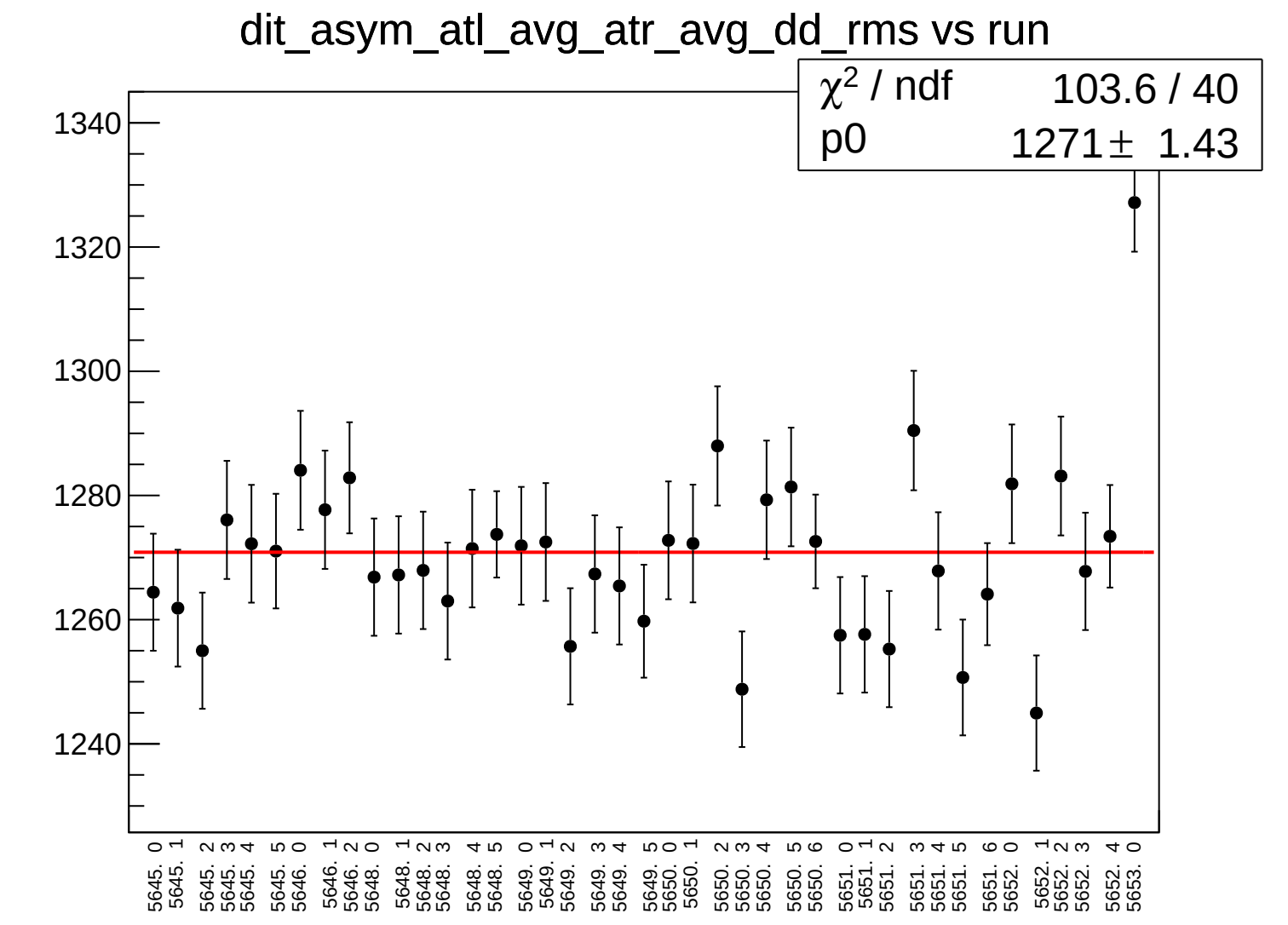

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 53.01 / 40
p0 −101.4 ± 720.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.715
Std Dev 0
2
1
0
−1
−2

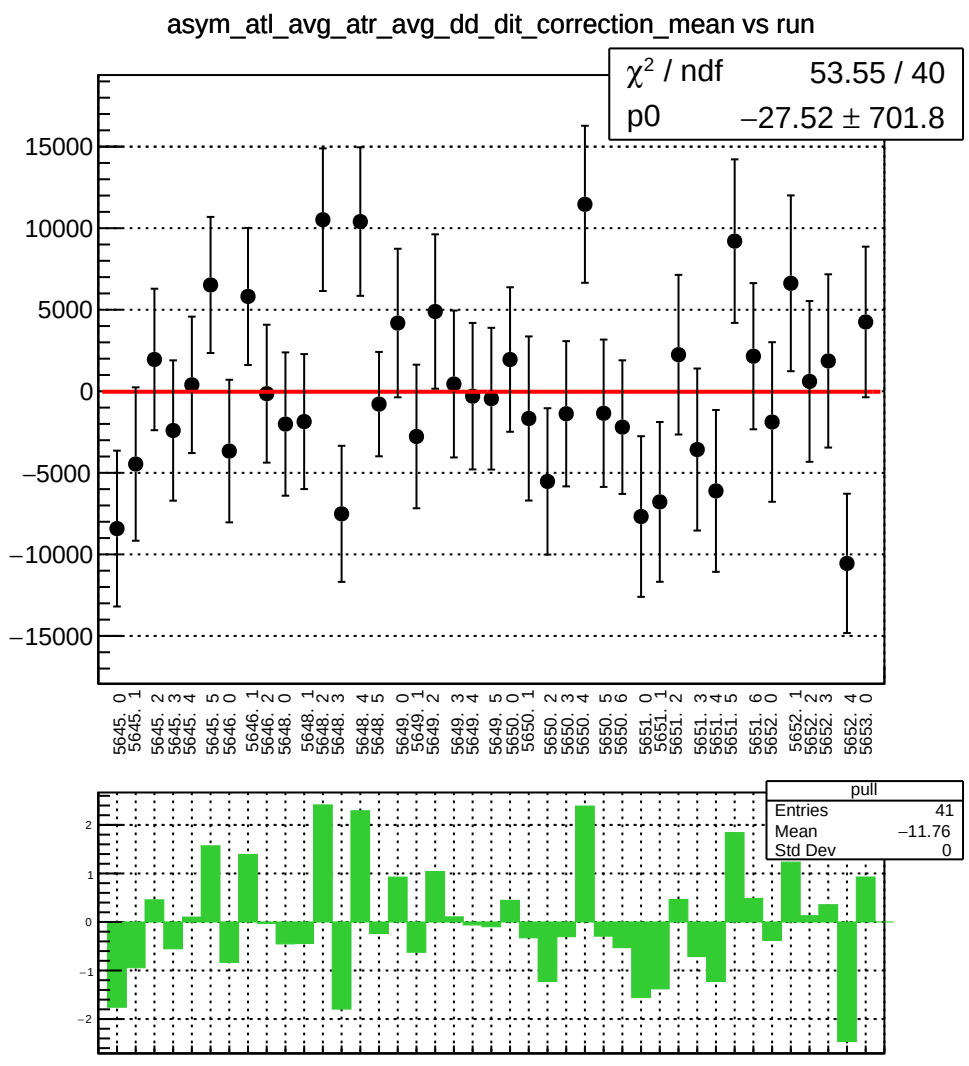

pull1D
Entries 41
Mean 0.01149
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

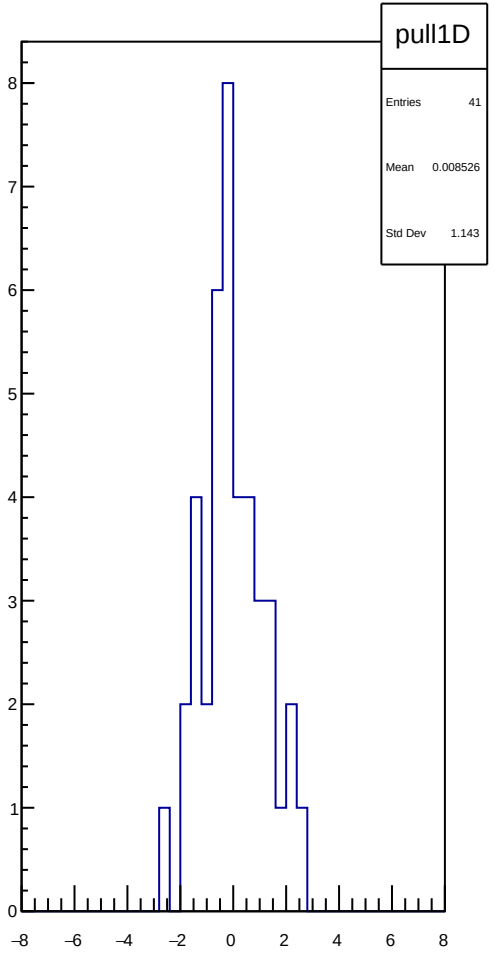

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5758 / 40
p0 451.5 ± 0.5097
580
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

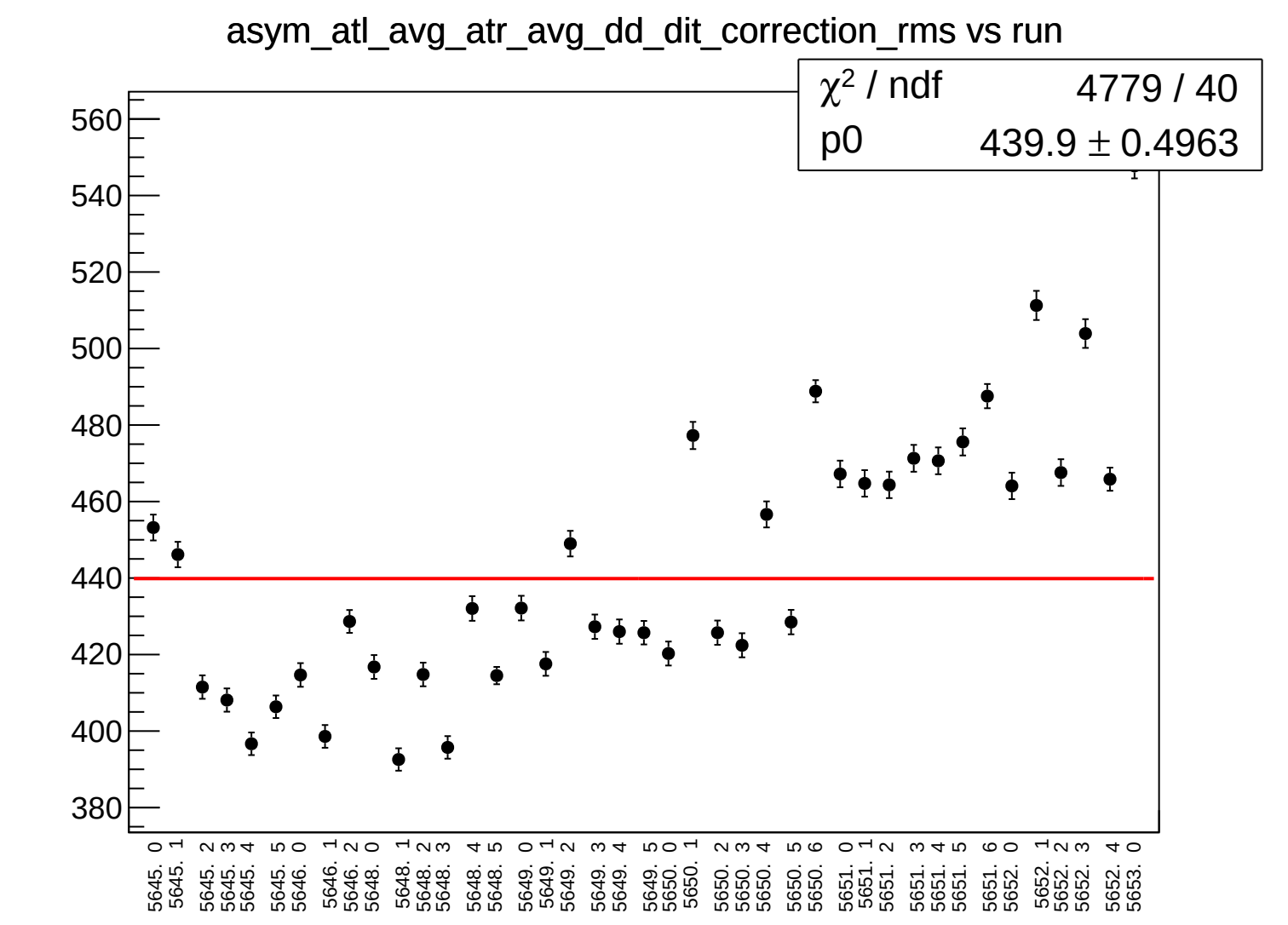

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.42 / 40
p0 −62.31± 2022
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1624
Std Dev 0
2
1
0
−1
−2
−3

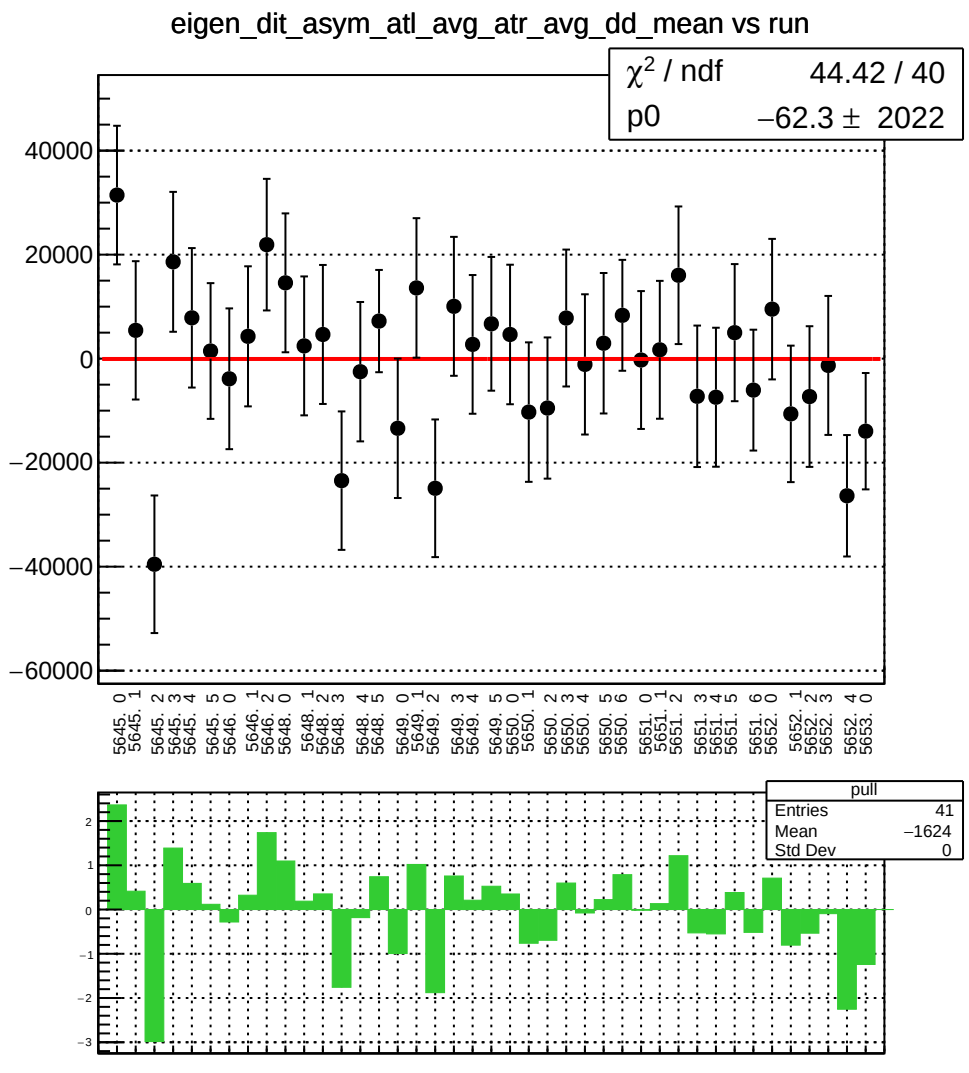

pull1D
Entries 41
Mean 0.002005
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

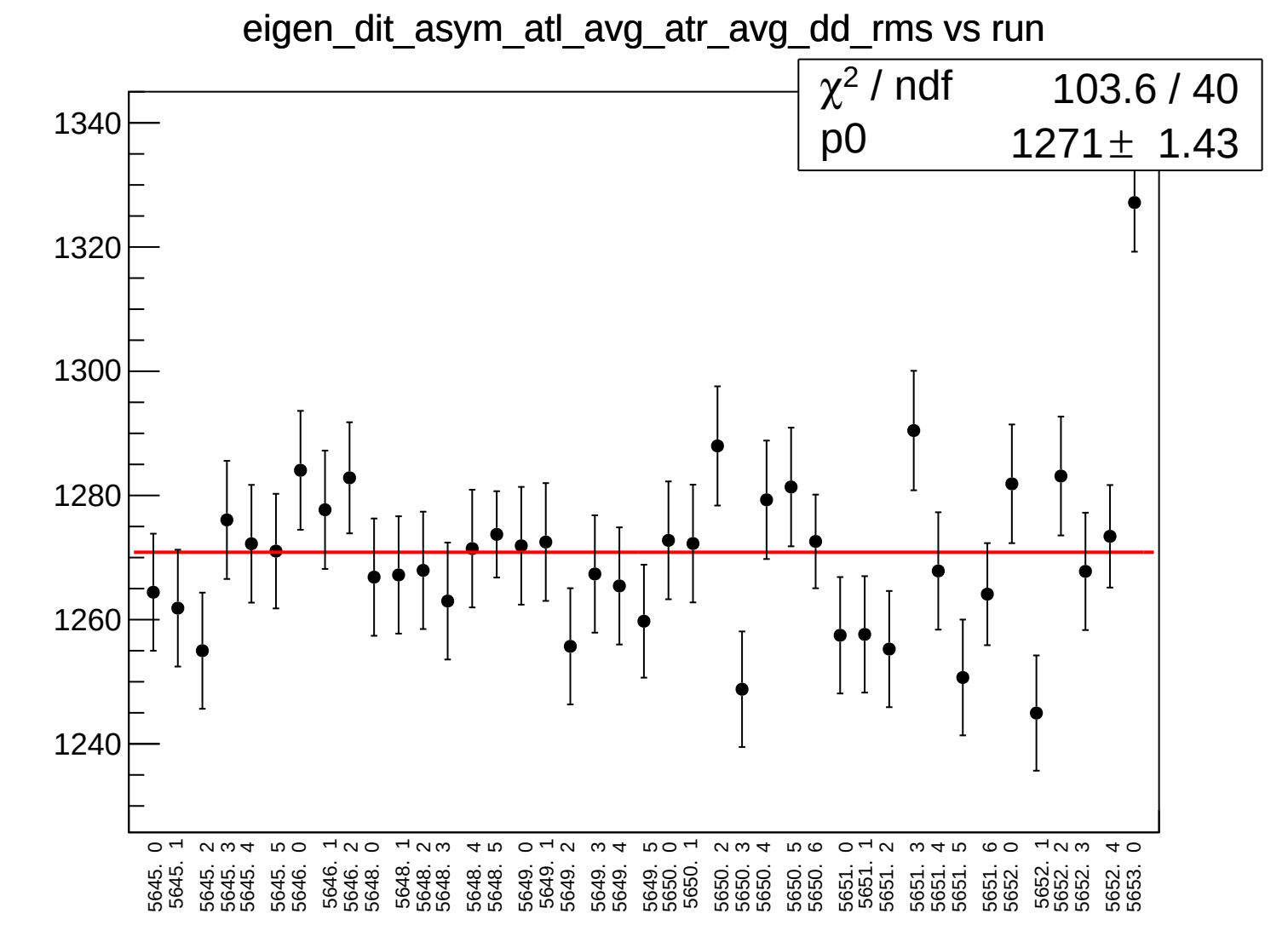

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.6 / 40
p0 1271 ± 1.43
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

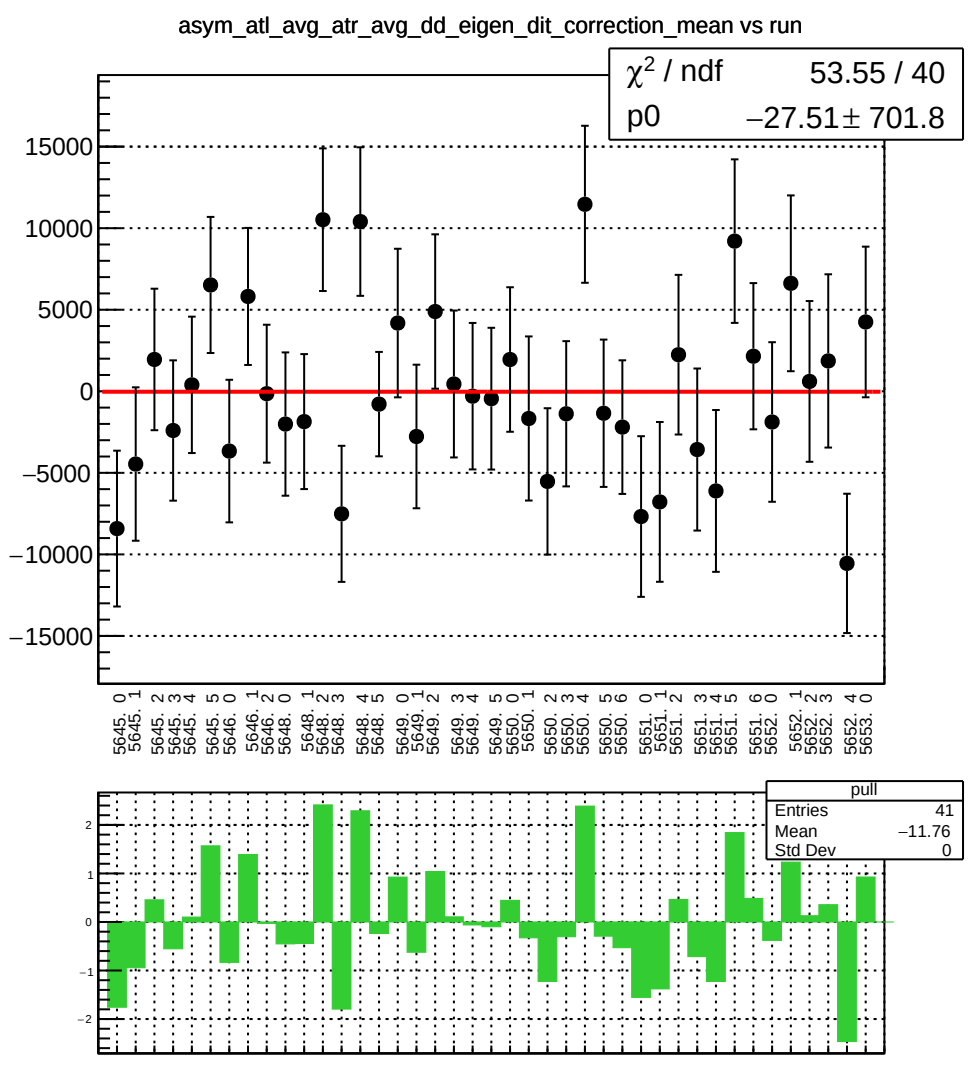

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 53.55 / 40
p0 −27.52 ± 701.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.76
Std Dev 0
2
1
0
−1
−2

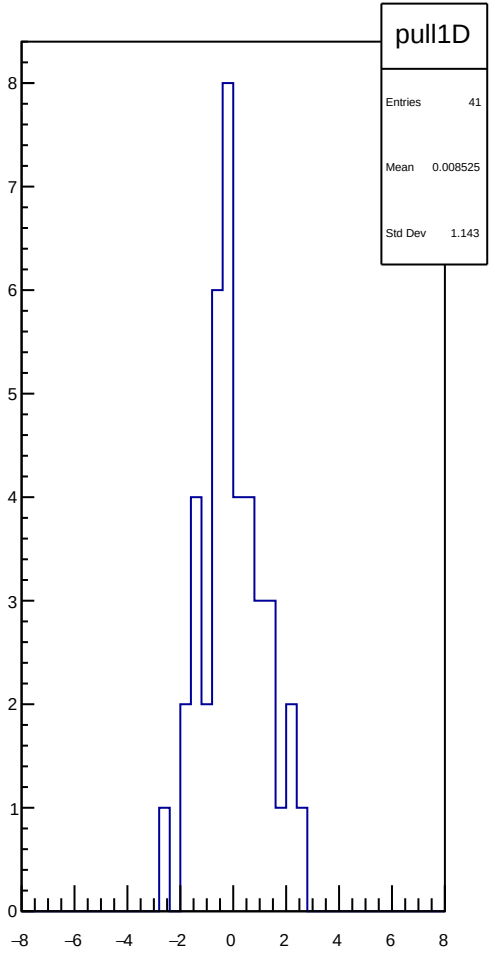

pull1D
Entries 41
Mean 0.008526
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

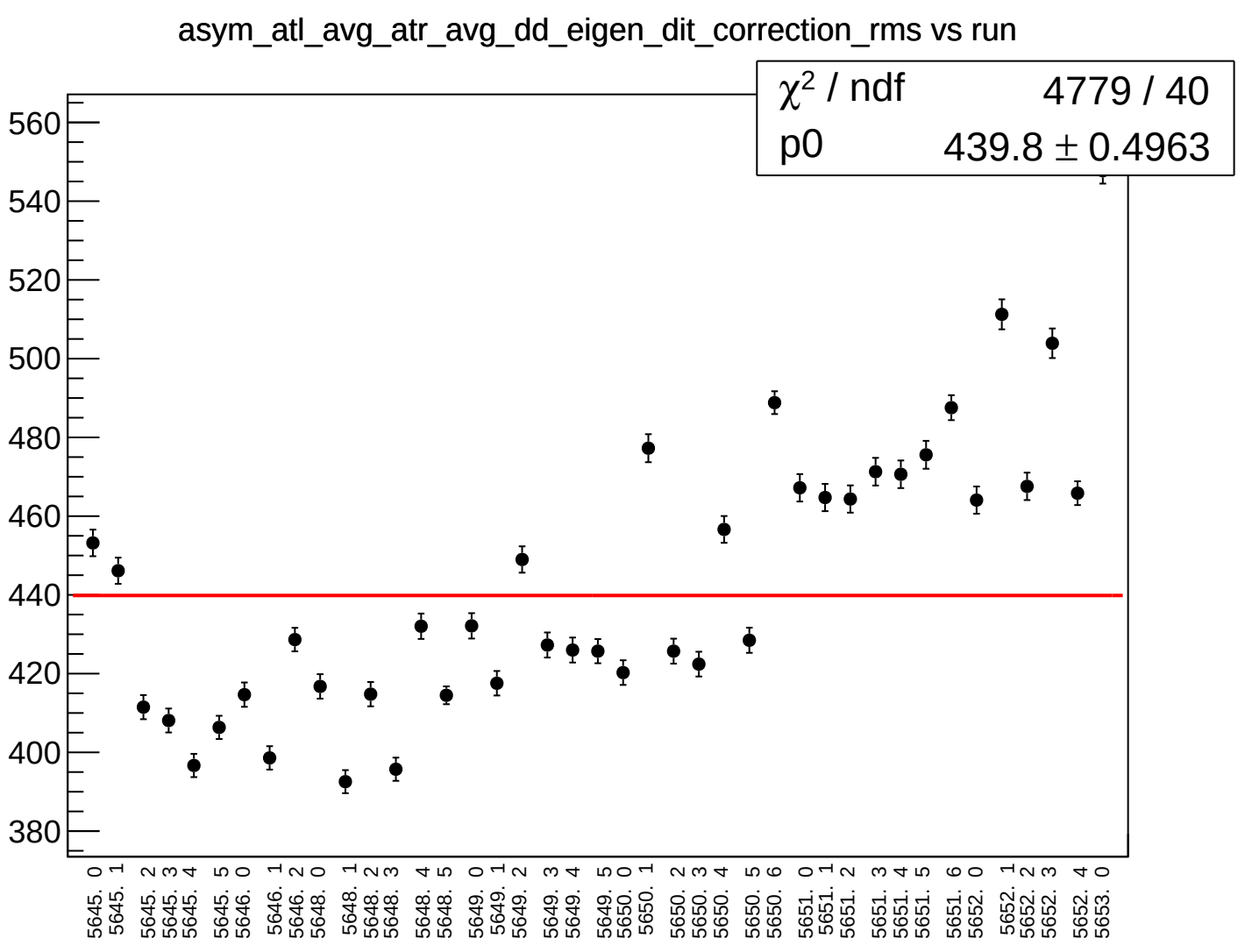

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4779 / 40
p0 439.9 ± 0.4963
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

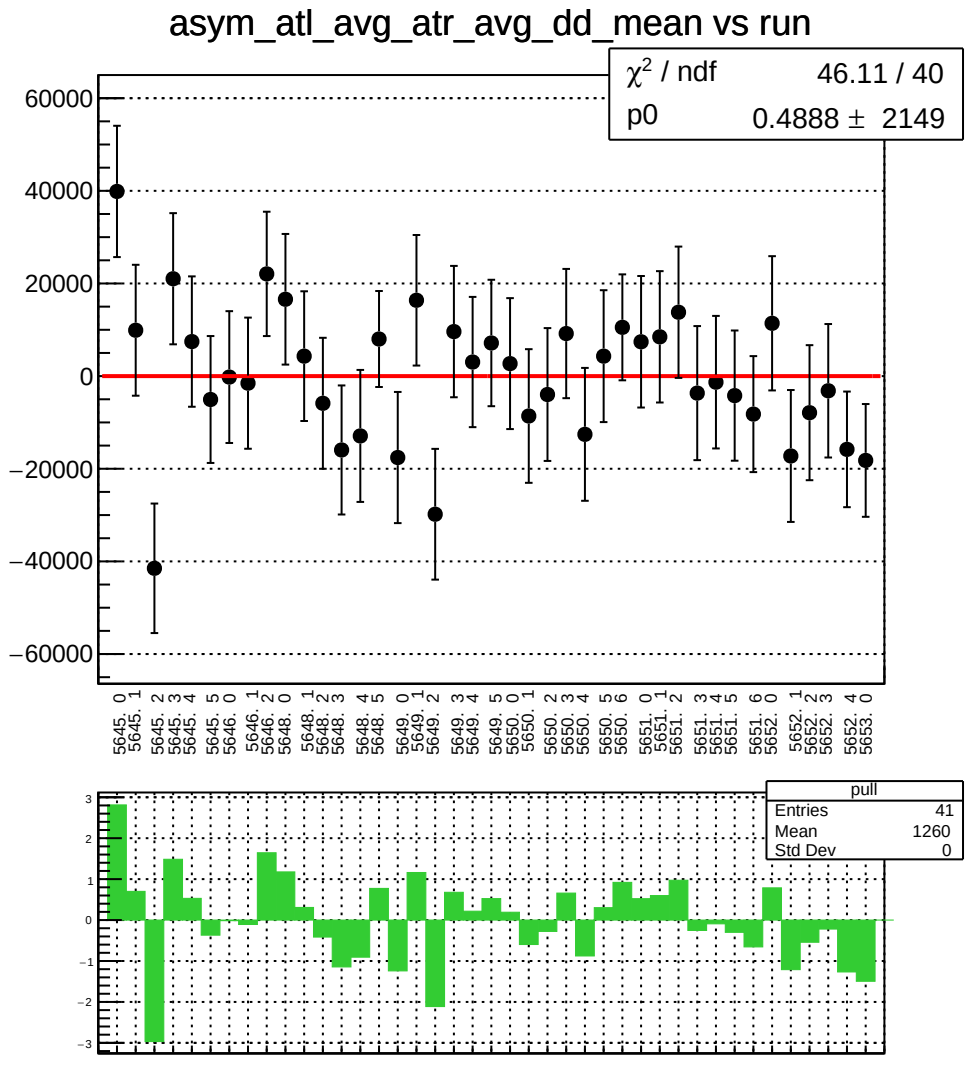

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.42 / 40
p0 −62.3 ± 2022
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1624
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.002005
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

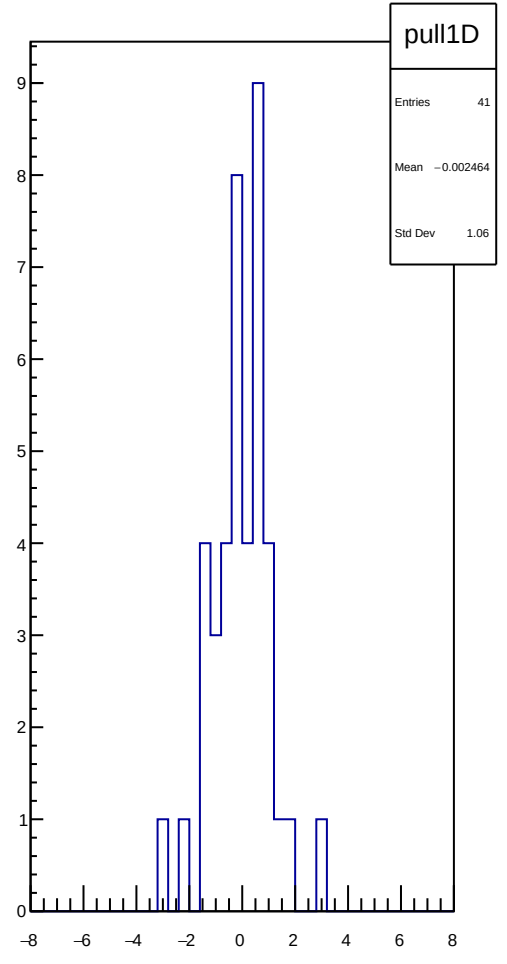

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 103.6 / 40
p0 1271 ± 1.43
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

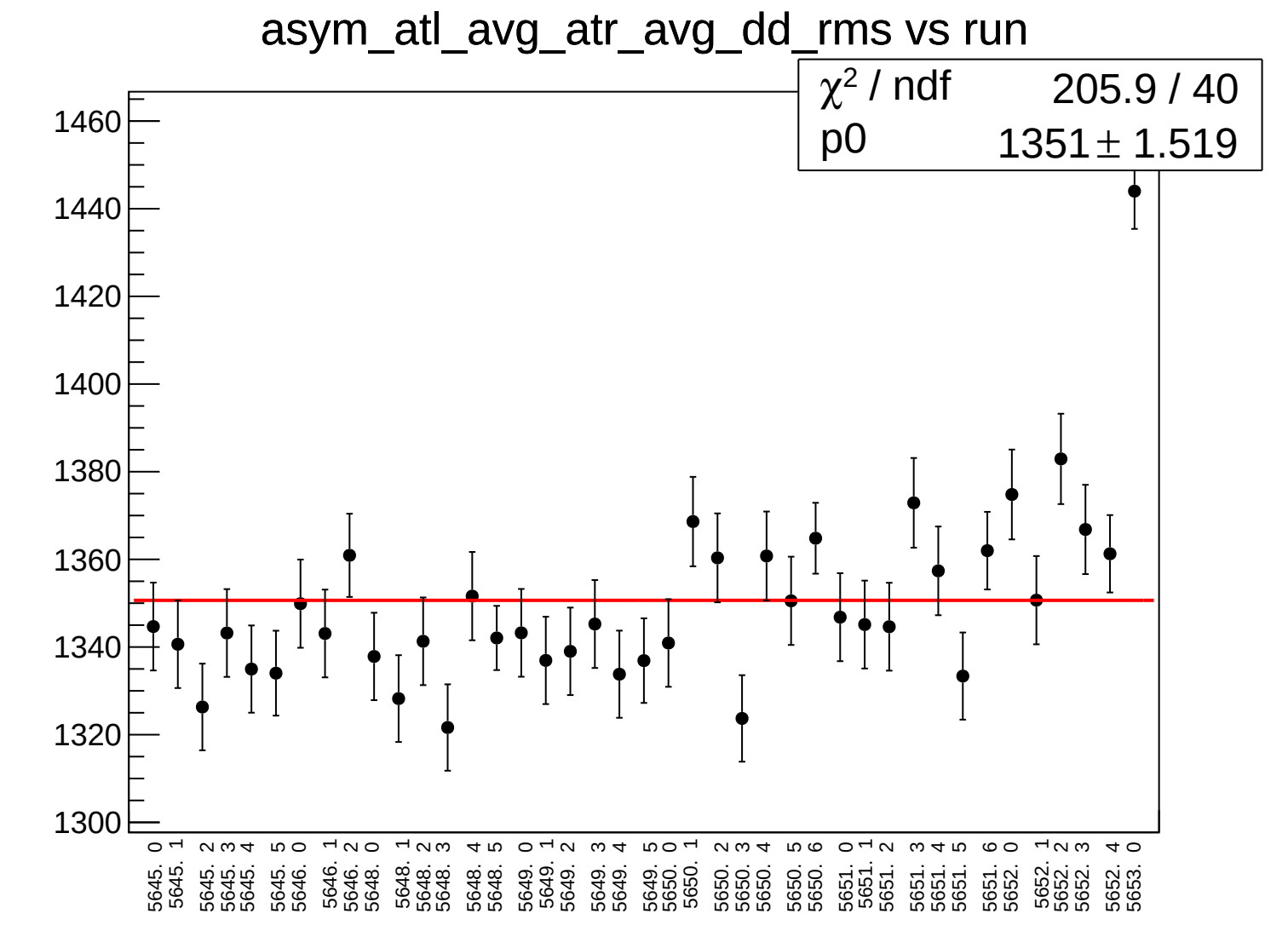

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 53.55 / 40
p0 −27.51± 701.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.76
Std Dev 0
2
1
0
−1
−2

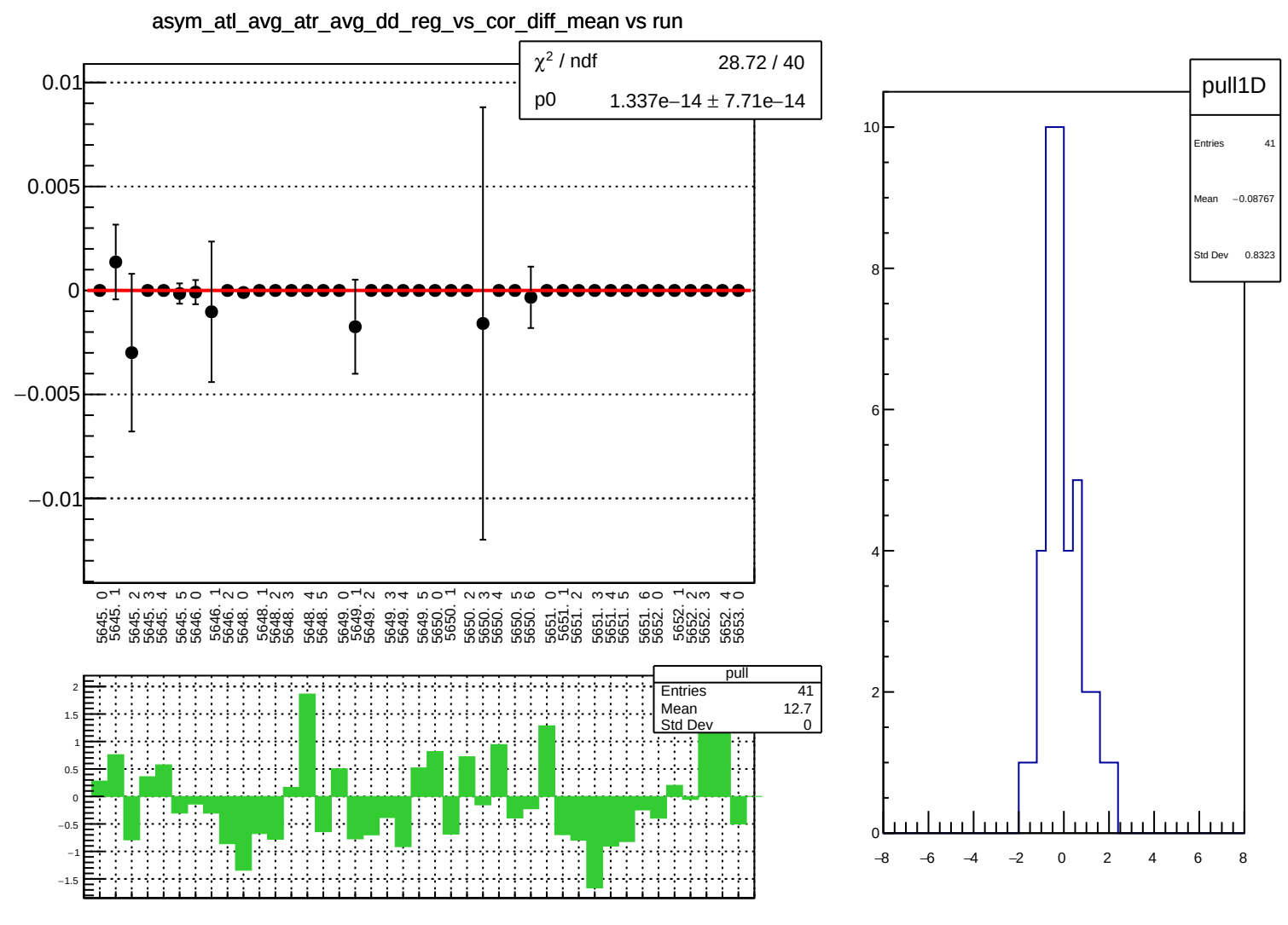

pull1D
Entries 41
Mean 0.008525
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

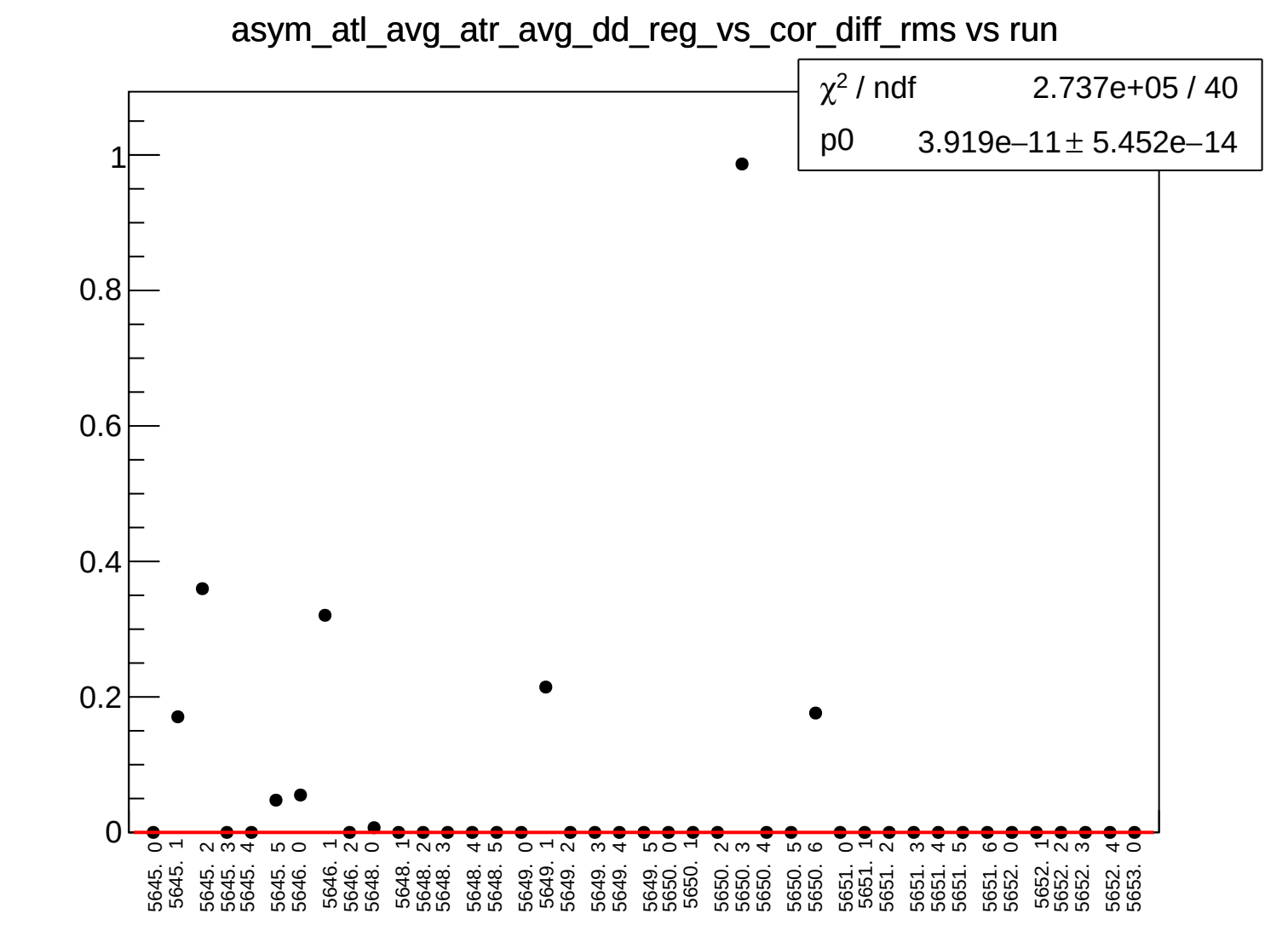

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4779 / 40
p0 439.8 ± 0.4963
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

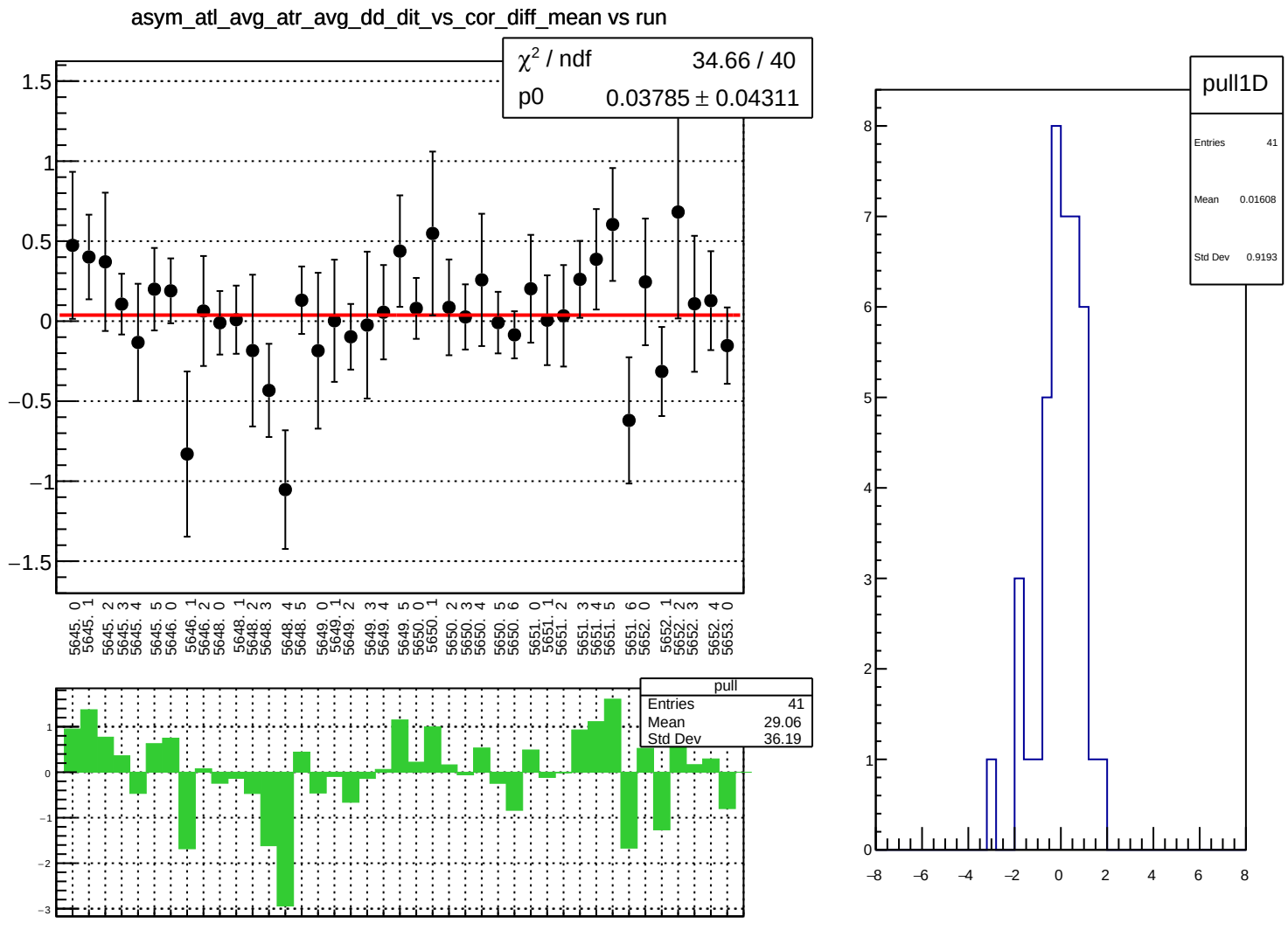

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 46.11 / 40
p0 0.4888 ± 2149
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1260
Std Dev 0
3
2
1
0
−1
−2
−3

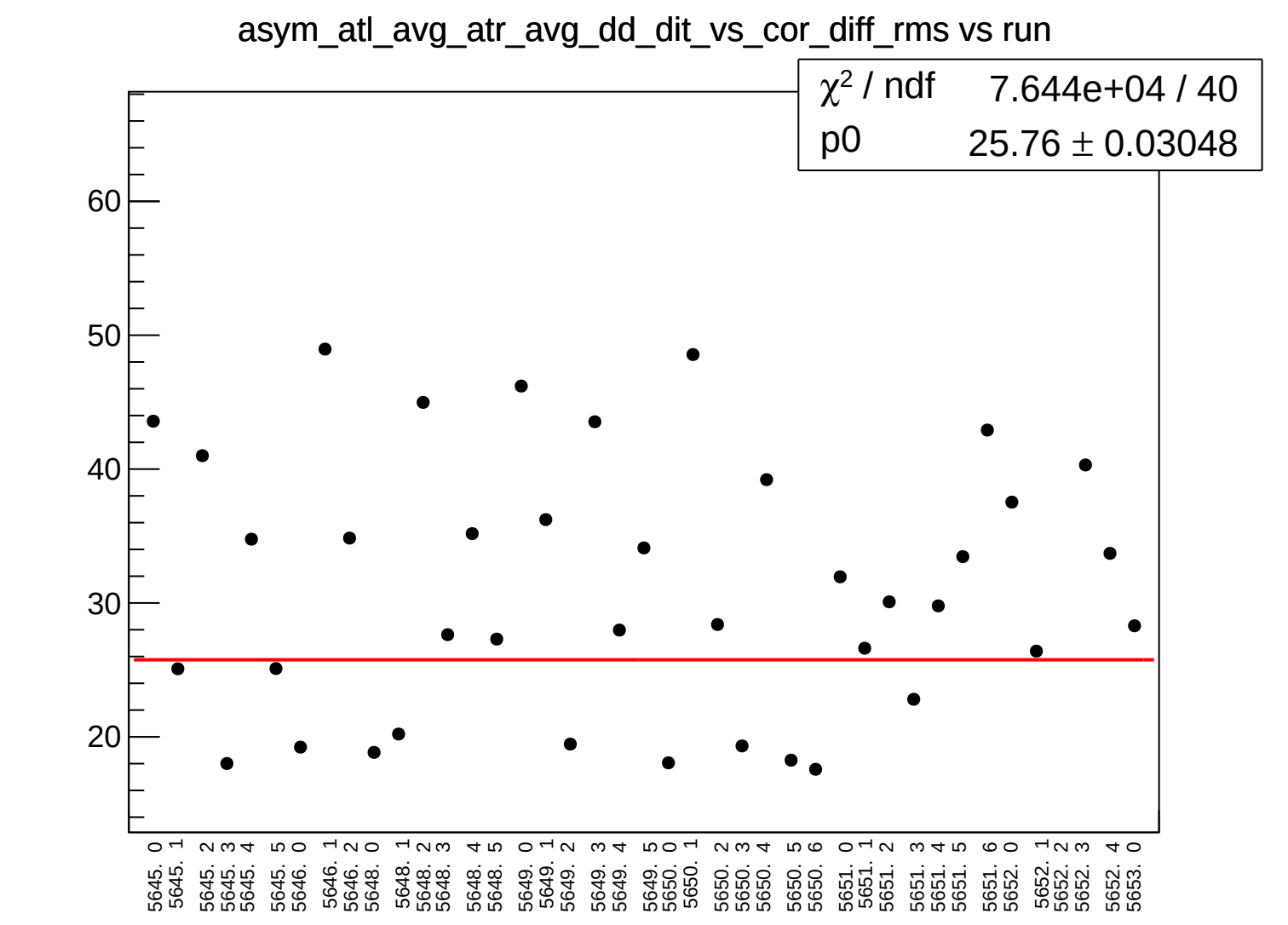

pull1D
Entries 41
Mean −0.002464
Std Dev 1.06
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

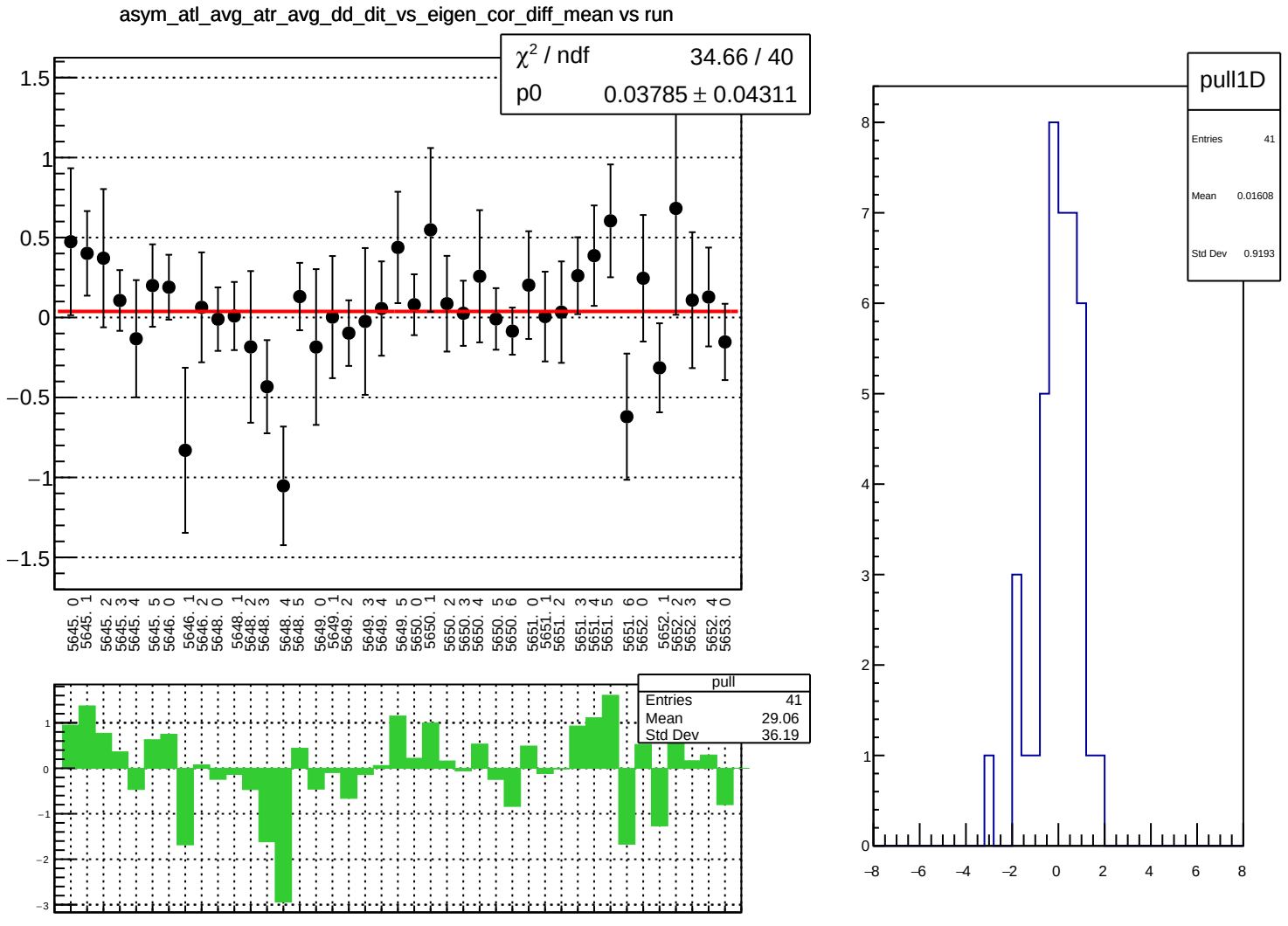

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 205.9 / 40
p0 1351 ± 1.519
1460
1440
1420
1400
1380
1360
1340
1320
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

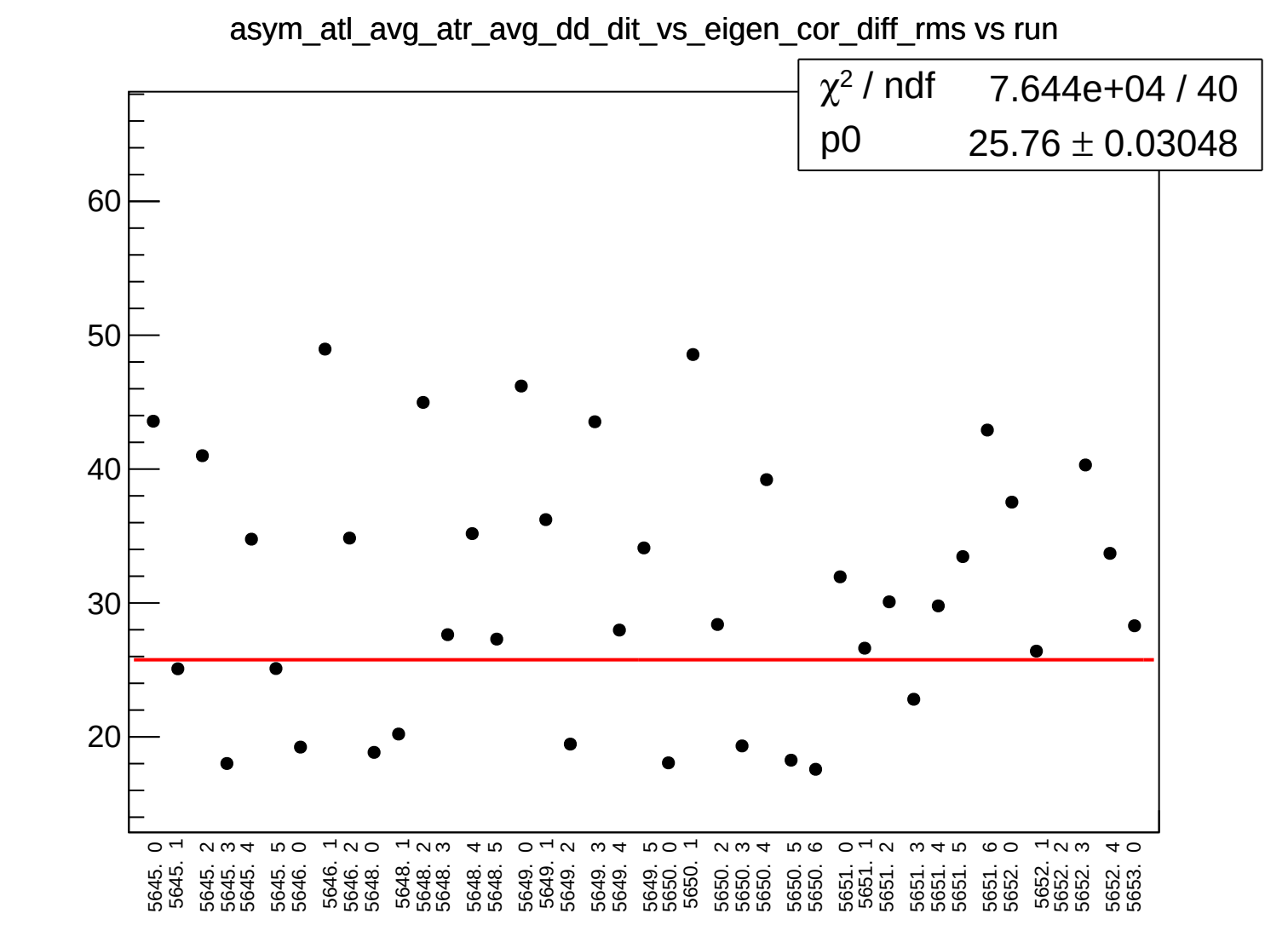

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.72 / 40
p0 1.337e−14 ± 7.71e−14
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.08767
Std Dev 0.8323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

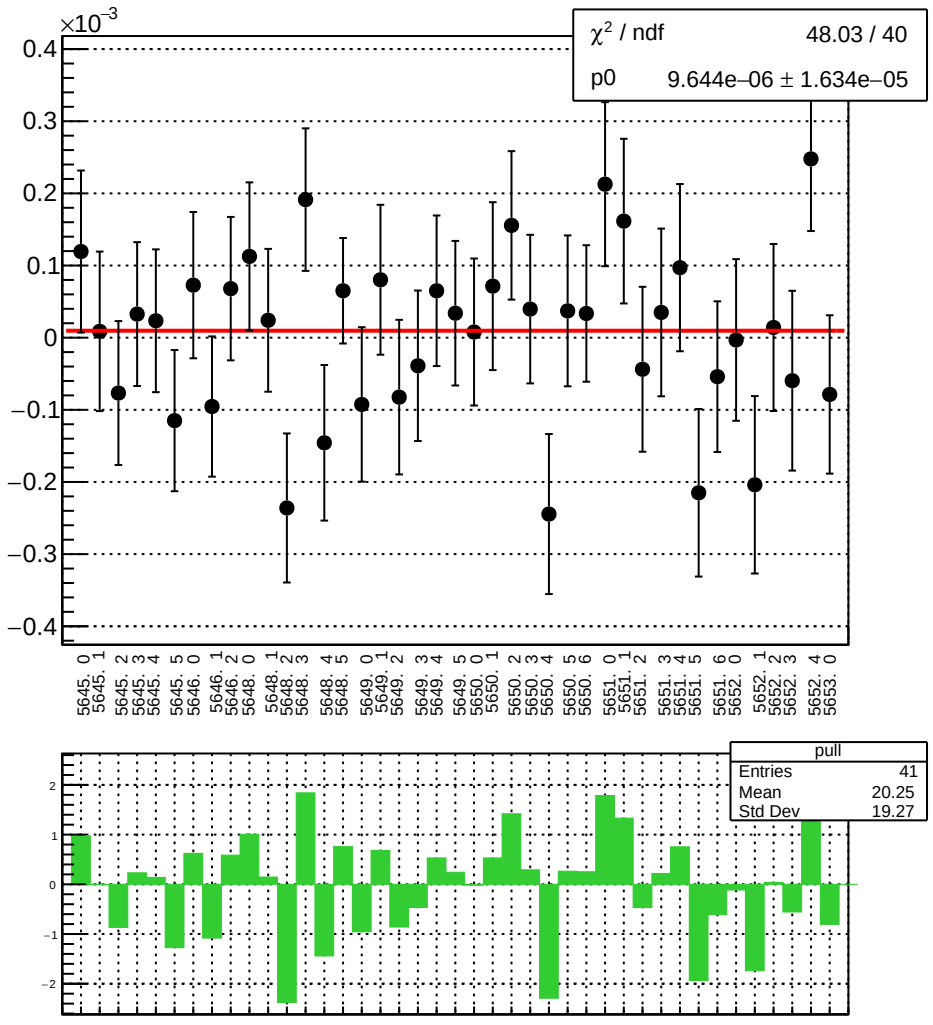

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.737e+05 / 40
p0 3.919e−11 ± 5.452e−14
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

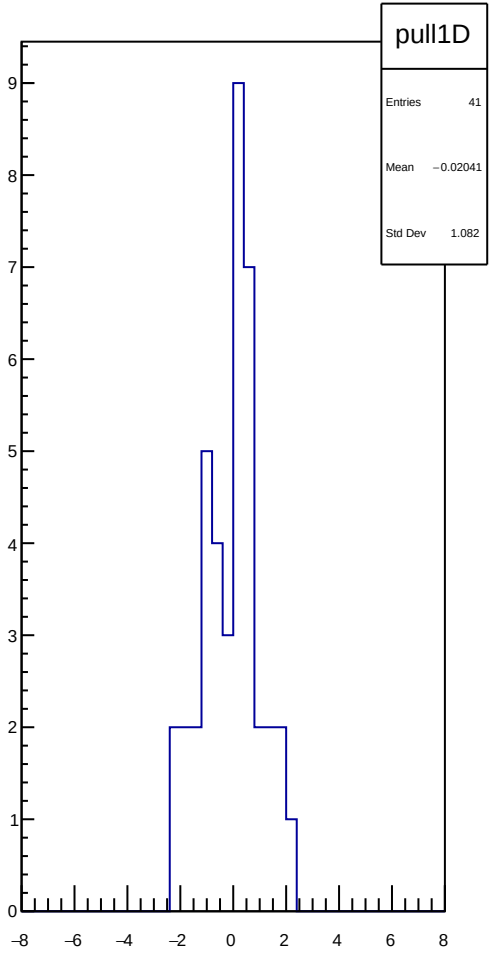

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03785 ± 0.04311
pull
Entries 41
Mean 29.06
Std Dev 36.19
pull1D
Entries 41
Mean 0.01608
Std Dev 0.9193

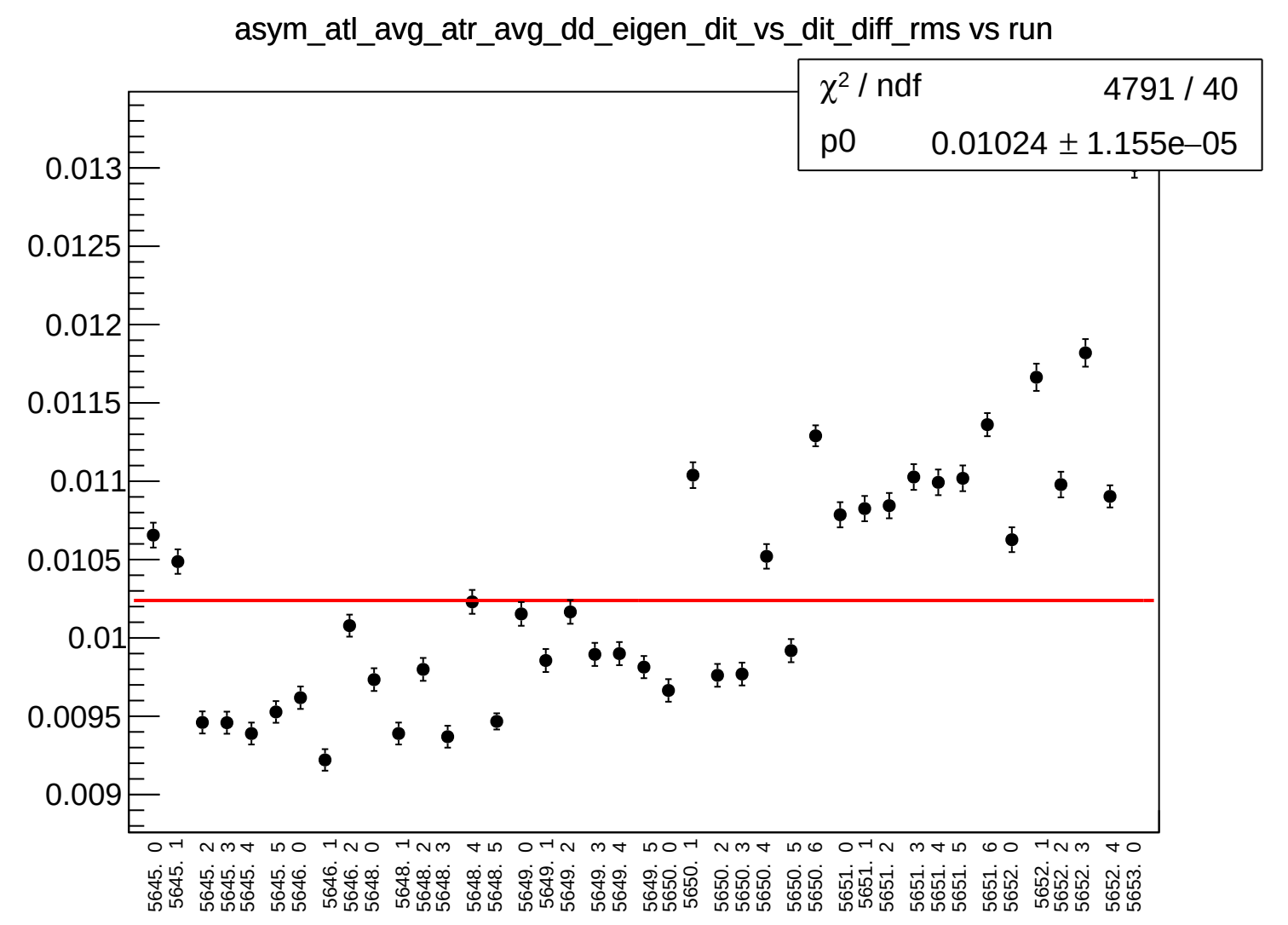

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.644e+04 / 40
p0 25.76 ± 0.03048
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

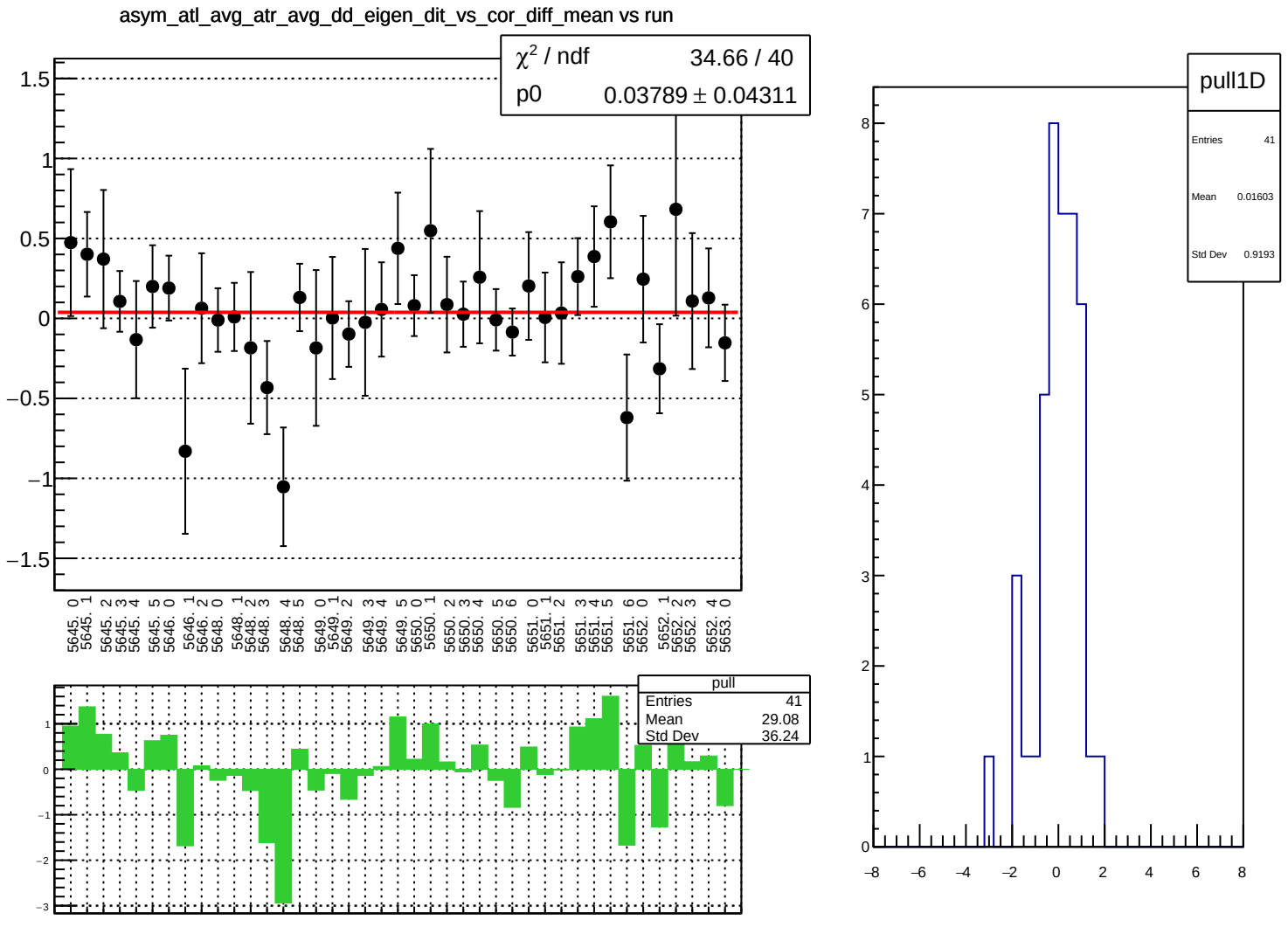

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03785 ± 0.04311
pull
Entries 41
Mean 29.06
Std Dev 36.19
pull1D
Entries 41
Mean 0.01608
Std Dev 0.9193

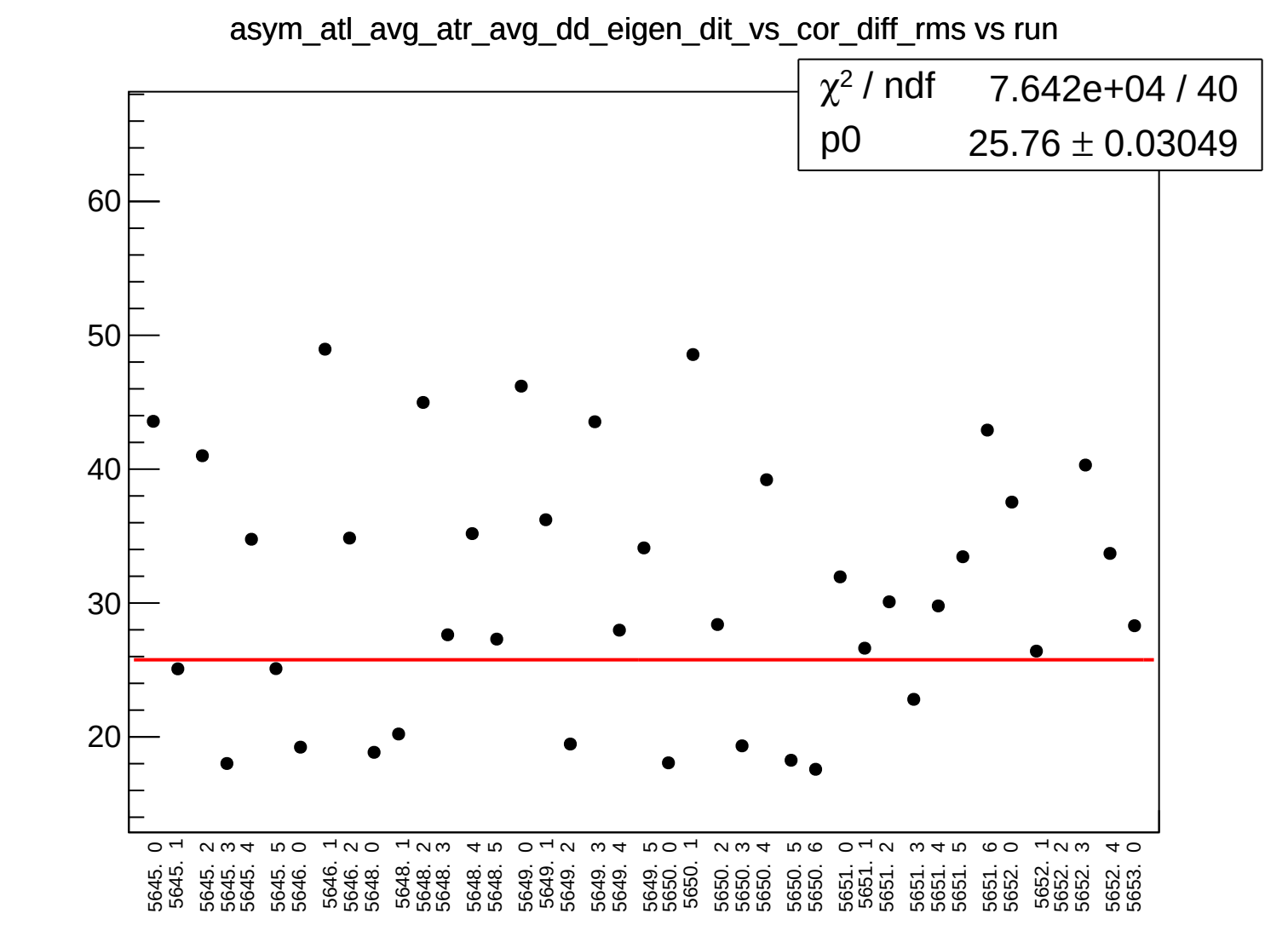

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.644e+04 / 40
p0 25.76 ± 0.03048
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

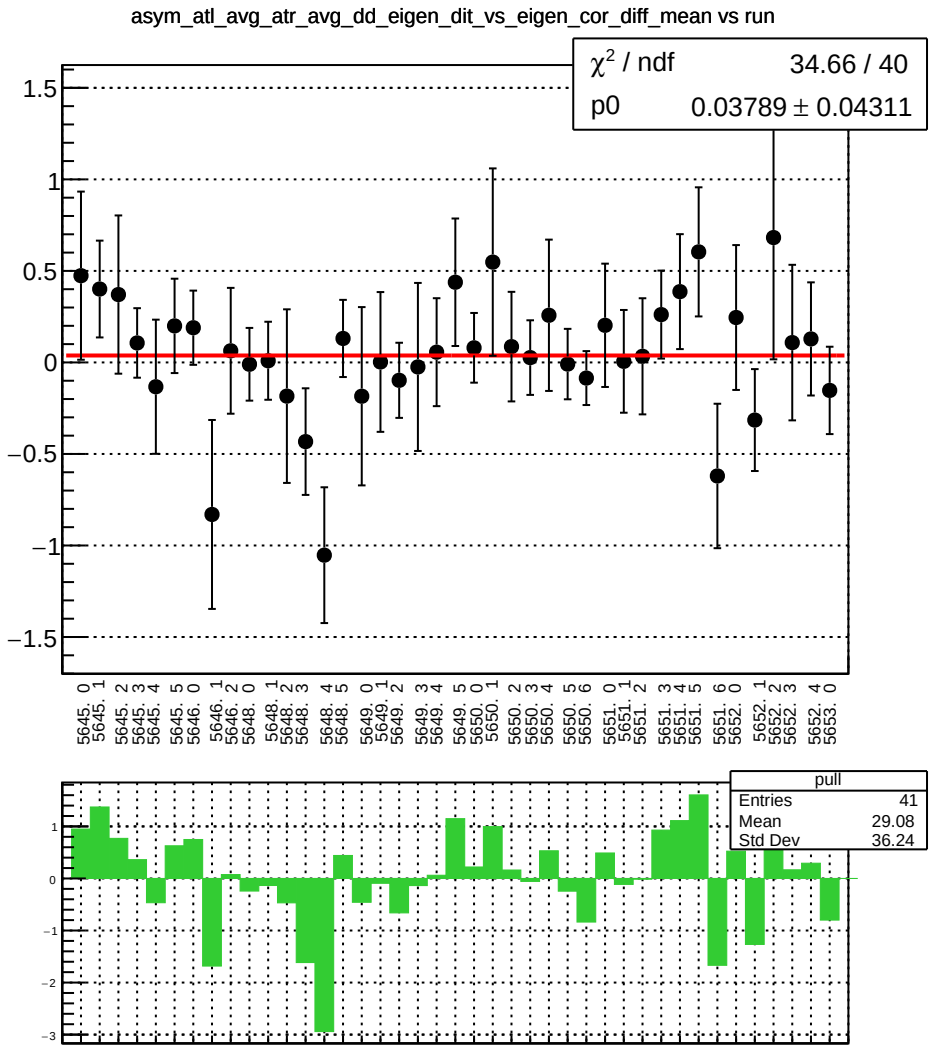

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.03 / 40
p0 9.644e−06 ± 1.634e−05
pull
Entries 41
Mean 20.25
Std Dev 19.27

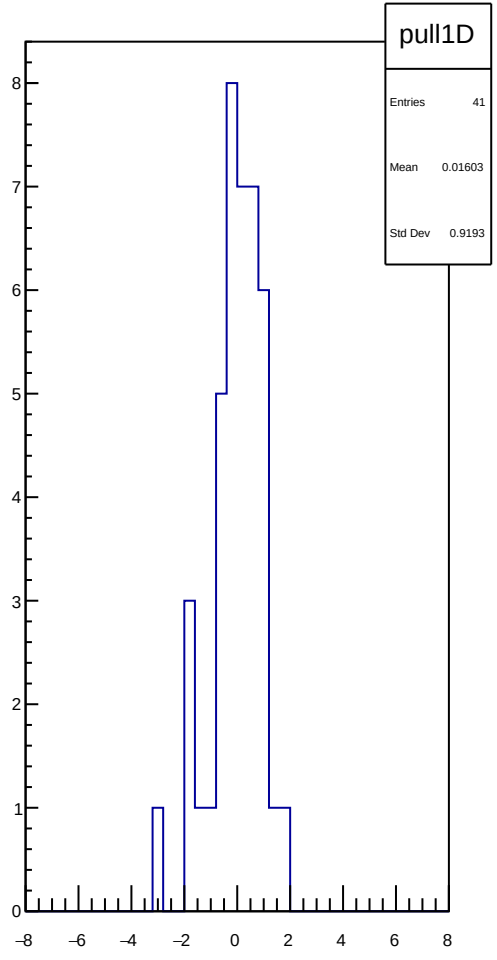

pull1D
Entries 41
Mean −0.02041
Std Dev 1.082

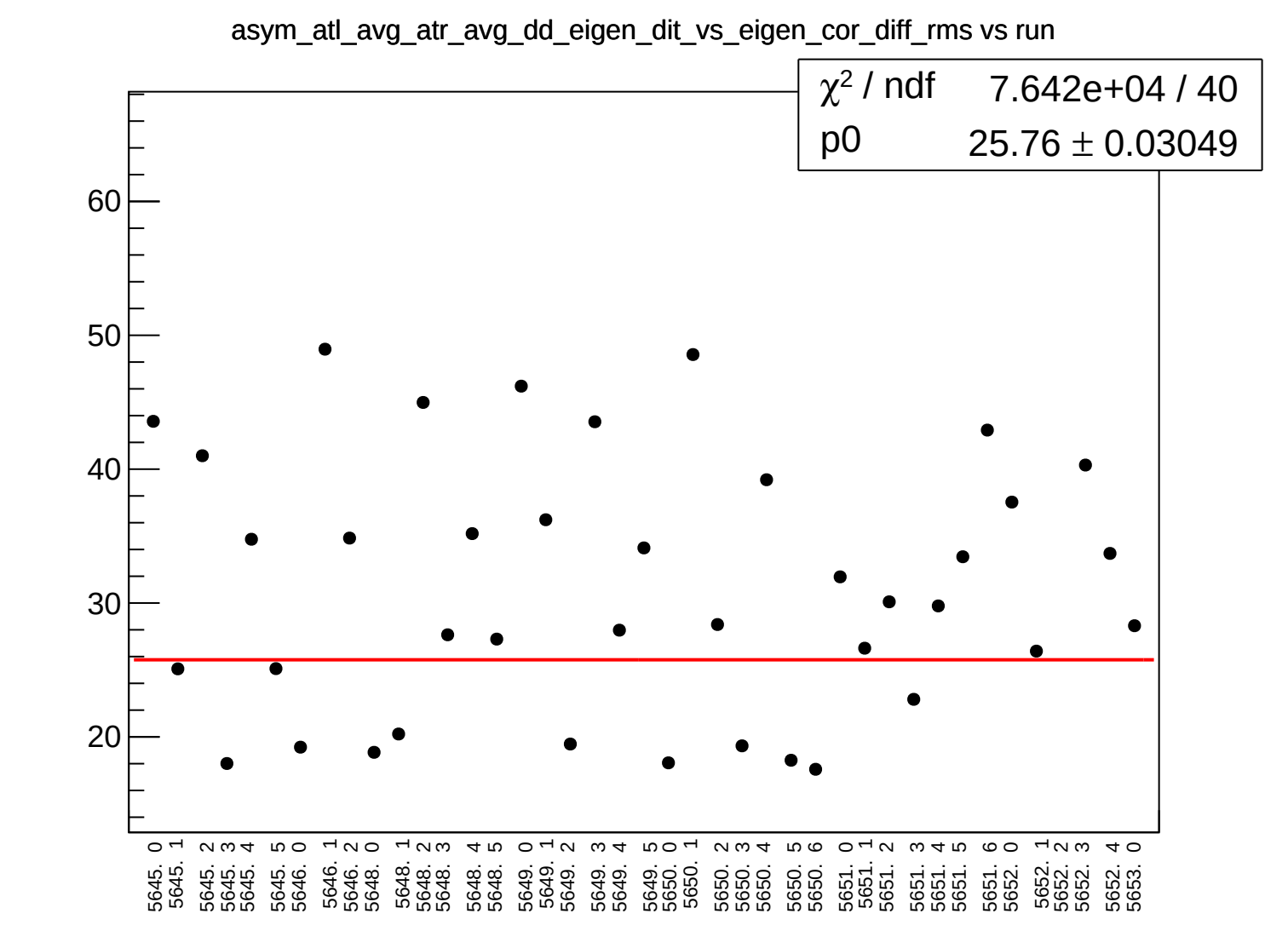

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4791 / 40
p0 0.01024 ± 1.155e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

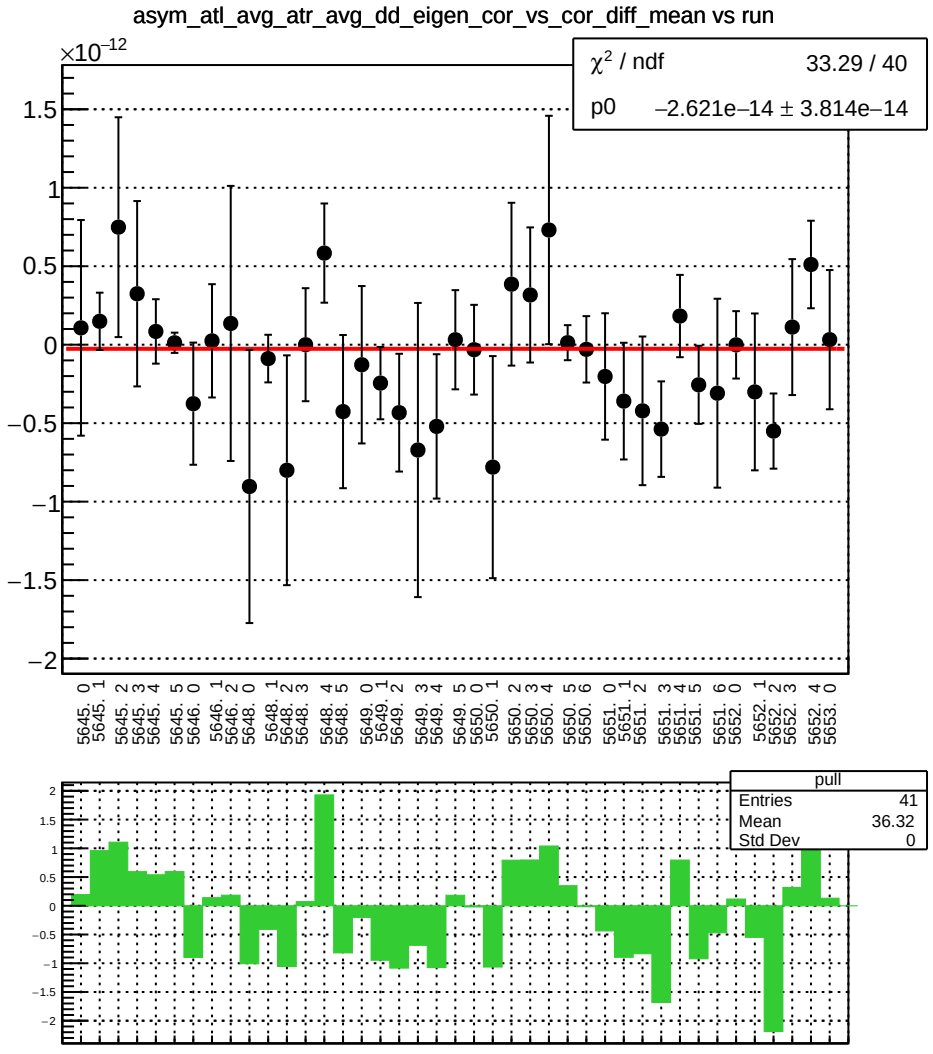

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03789 ± 0.04311
pull
Entries 41
Mean 29.08
Std Dev 36.24
pull1D
Entries 41
Mean 0.01603
Std Dev 0.9193

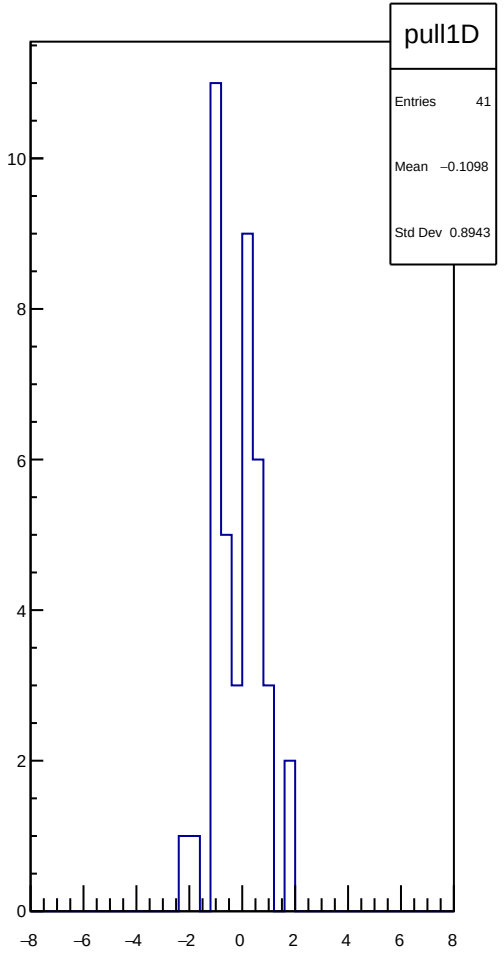

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.642e+04 / 40
p0 25.76 ± 0.03049
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

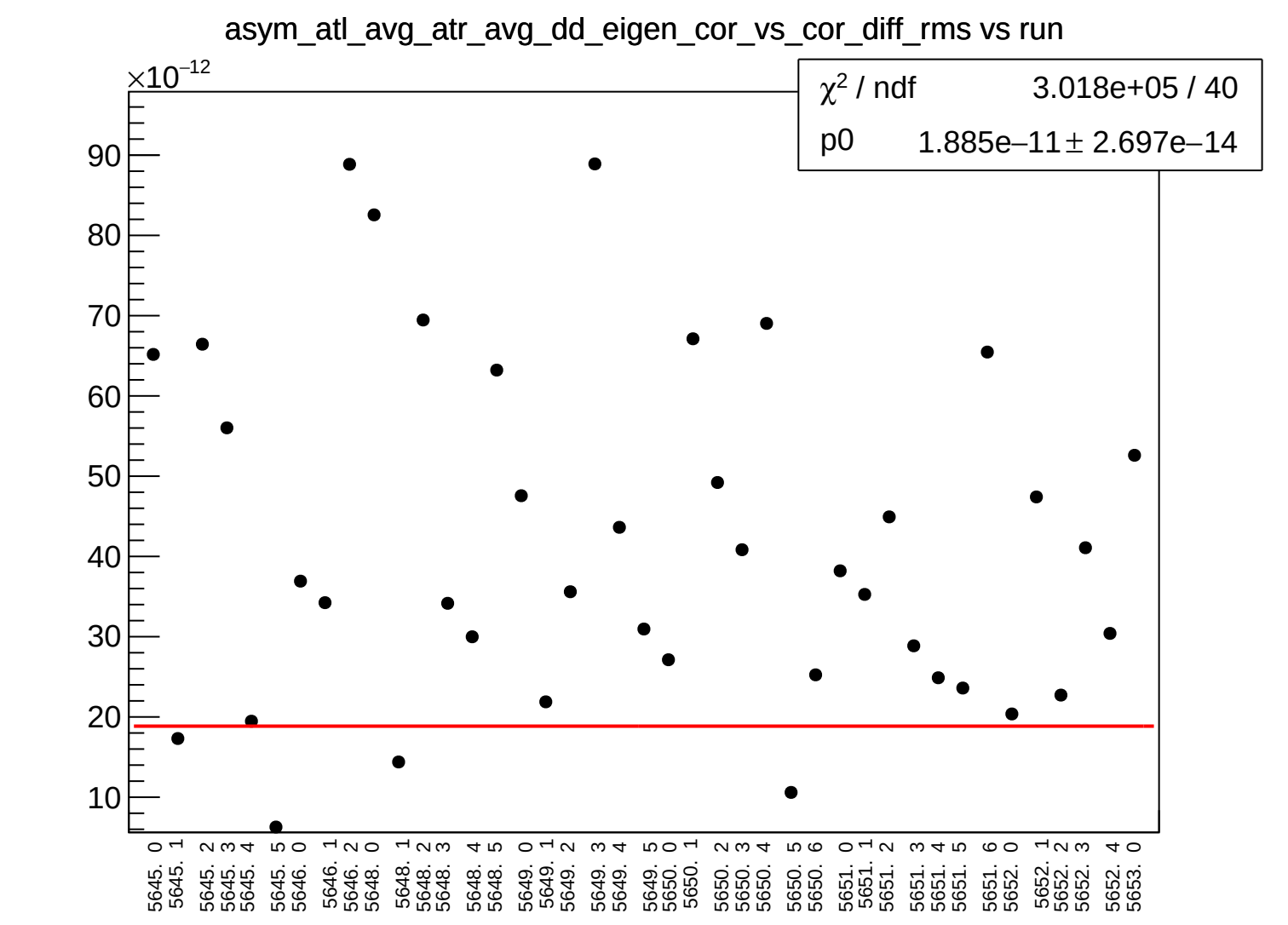

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03789 ± 0.04311
pull
Entries 41
Mean 29.08
Std Dev 36.24

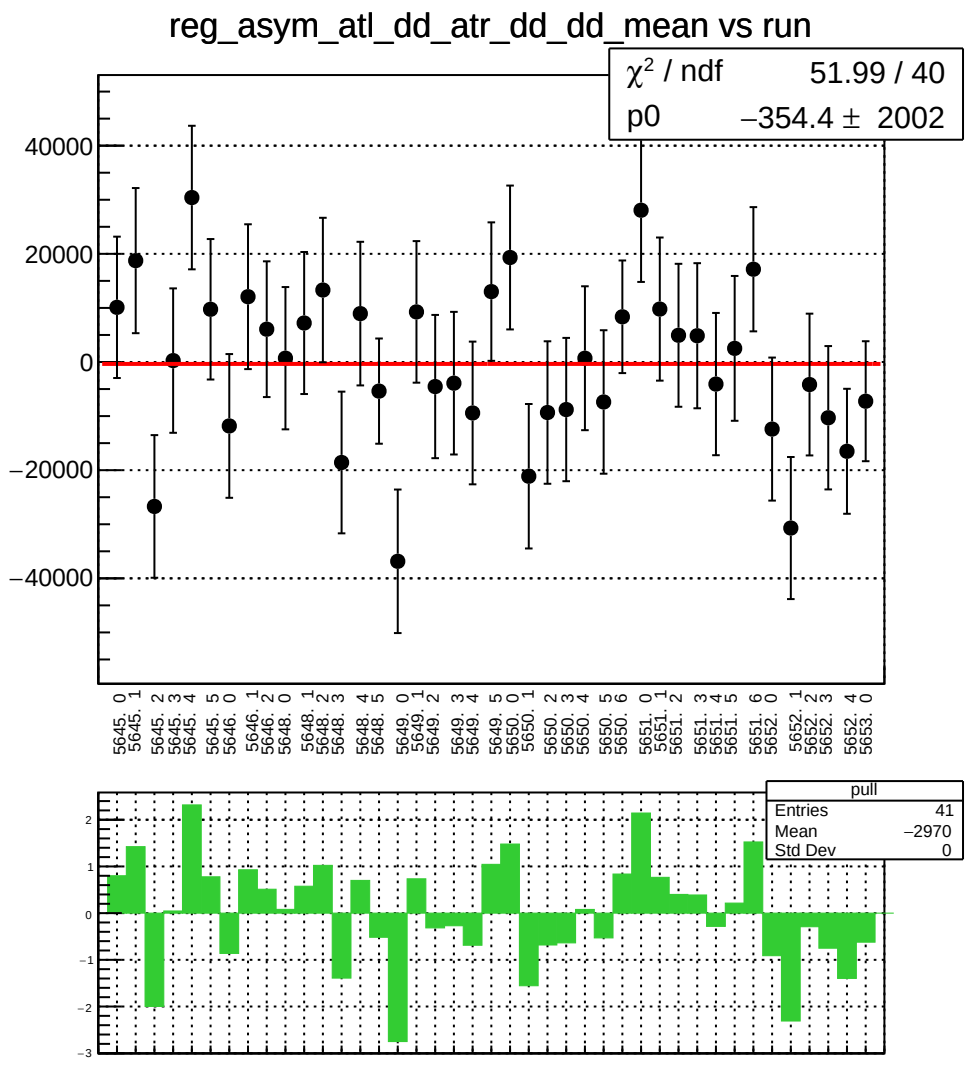

pull1D
Entries 41
Mean 0.01603
Std Dev 0.9193

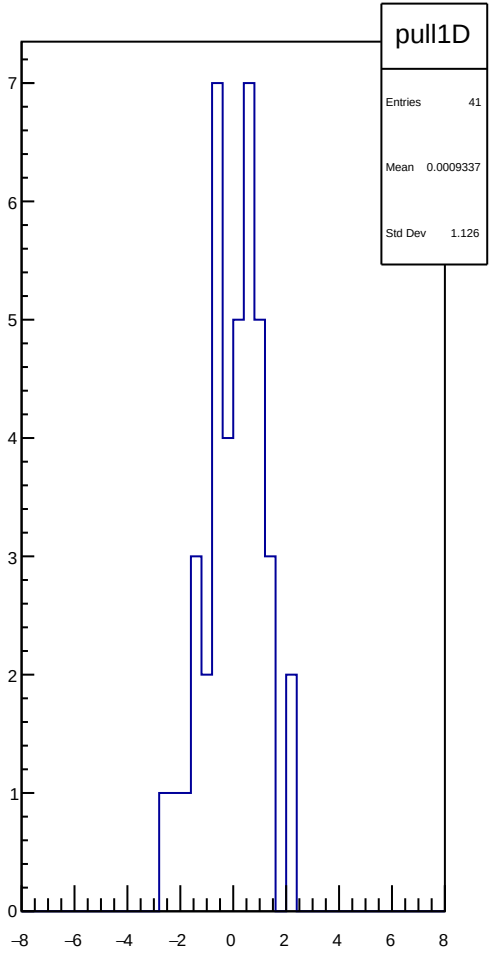

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.642e+04 / 40
p0 25.76 ± 0.03049
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

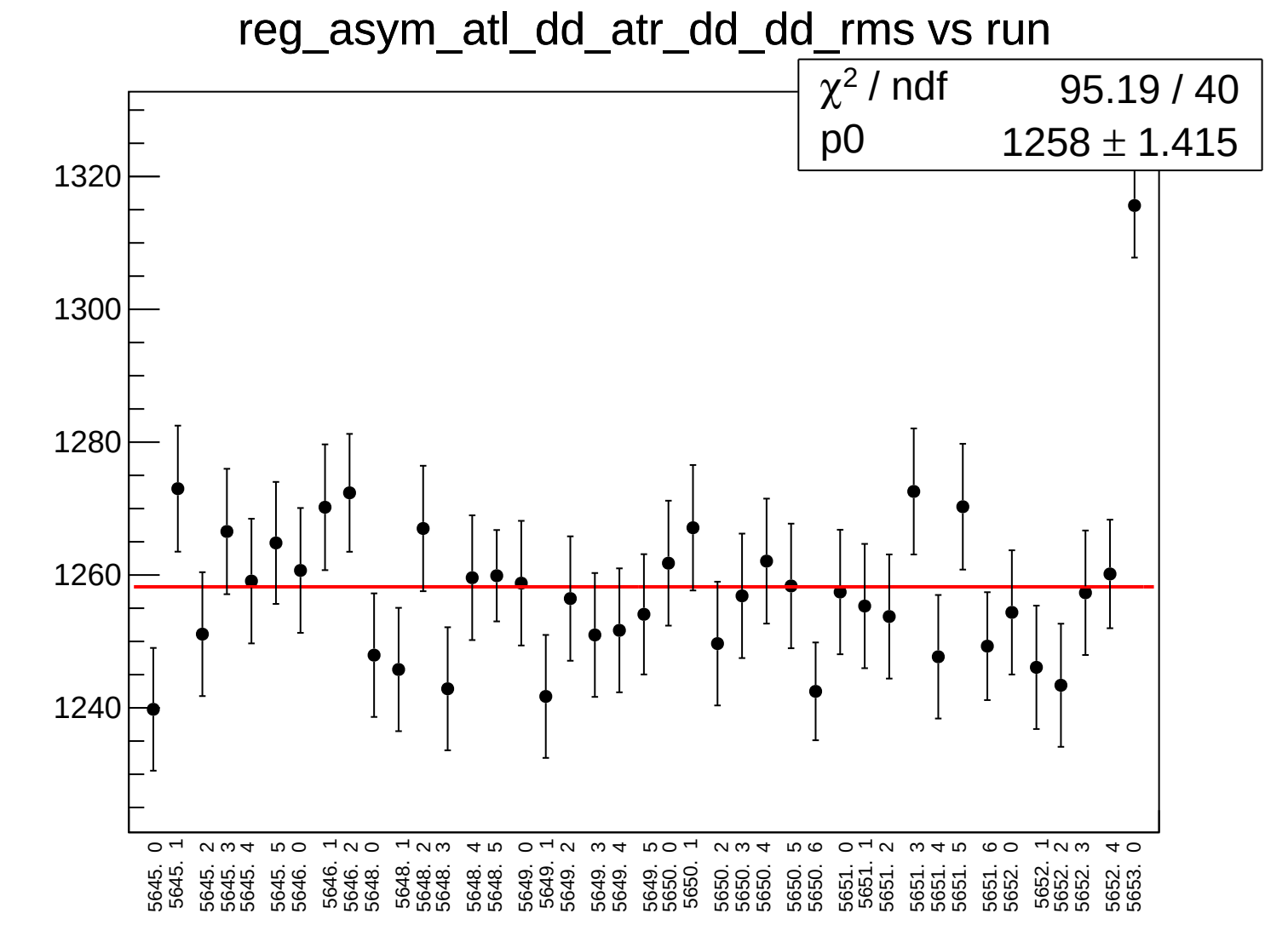

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.29 / 40
p0 −2.621e−14 ± 3.814e−14
pull
Entries 41
Mean 36.32
Std Dev 0

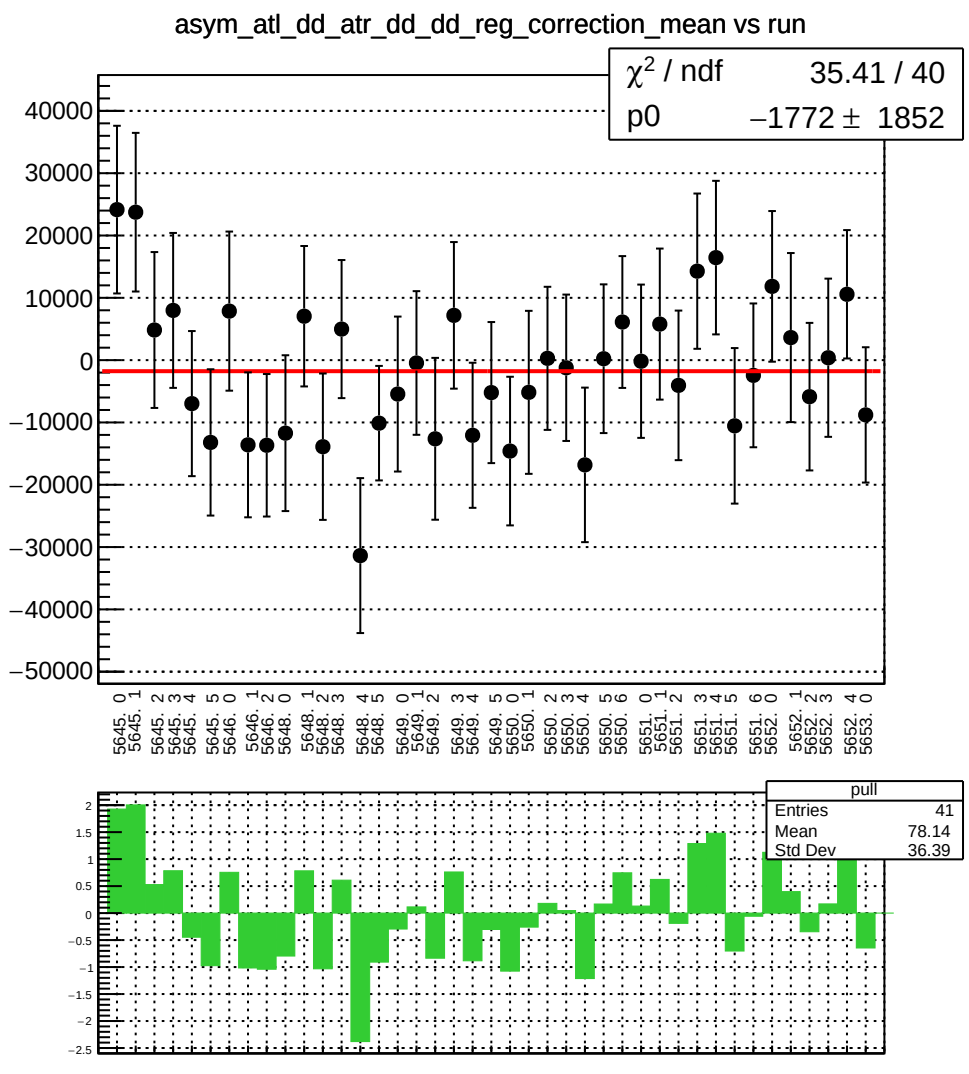

pull1D
Entries 41
Mean −0.1098
Std Dev 0.8943

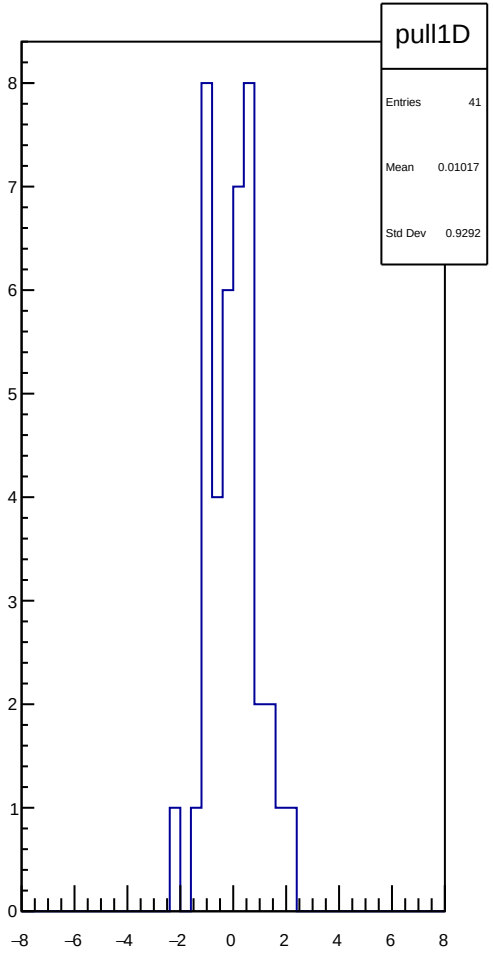

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.018e+05 / 40
p0 1.885e−11 ± 2.697e−14
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

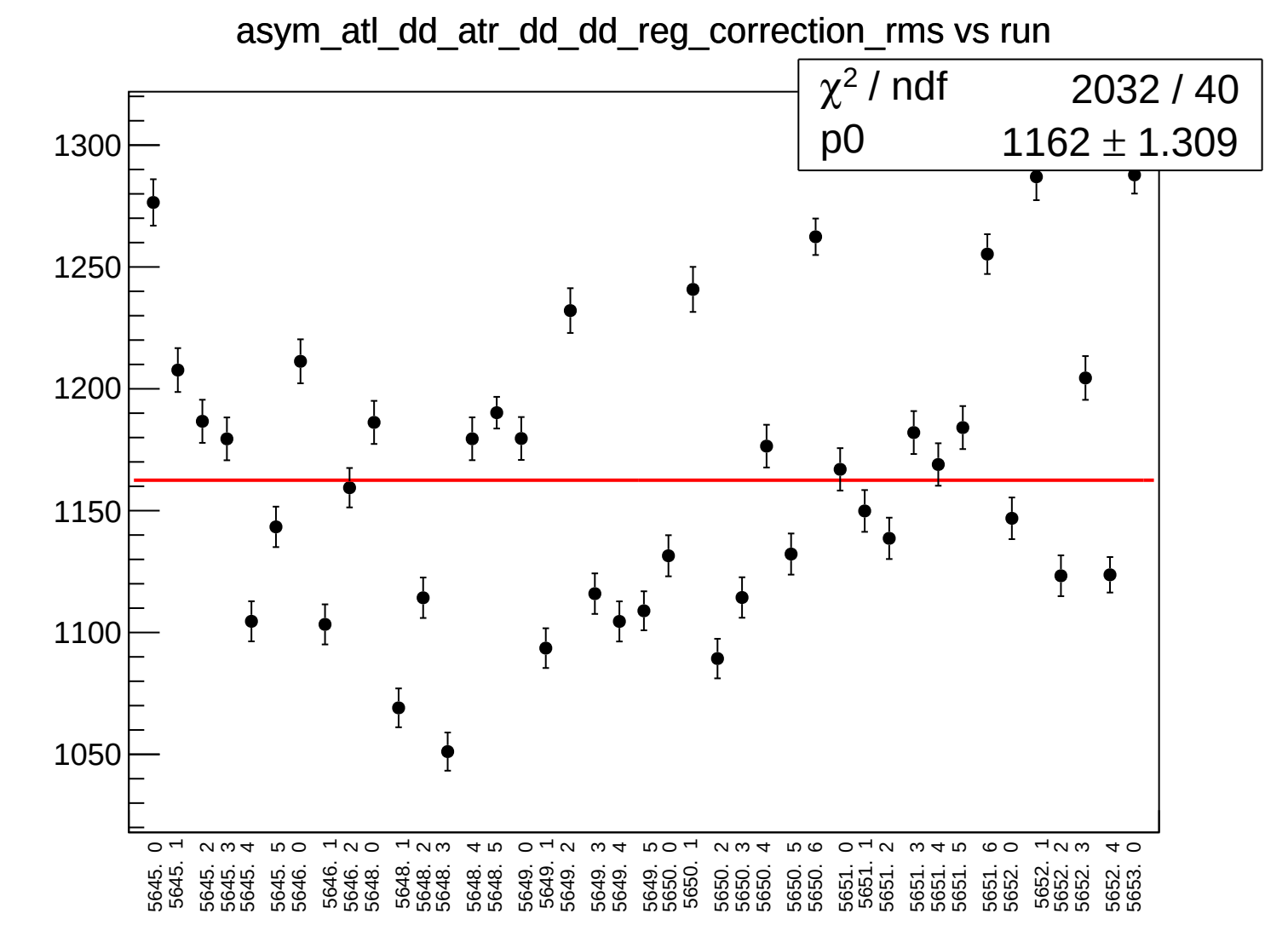

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 51.99 / 40
p0 −354.4 ± 2002
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2970
Std Dev 0
2
1
0
−1
−2
−3

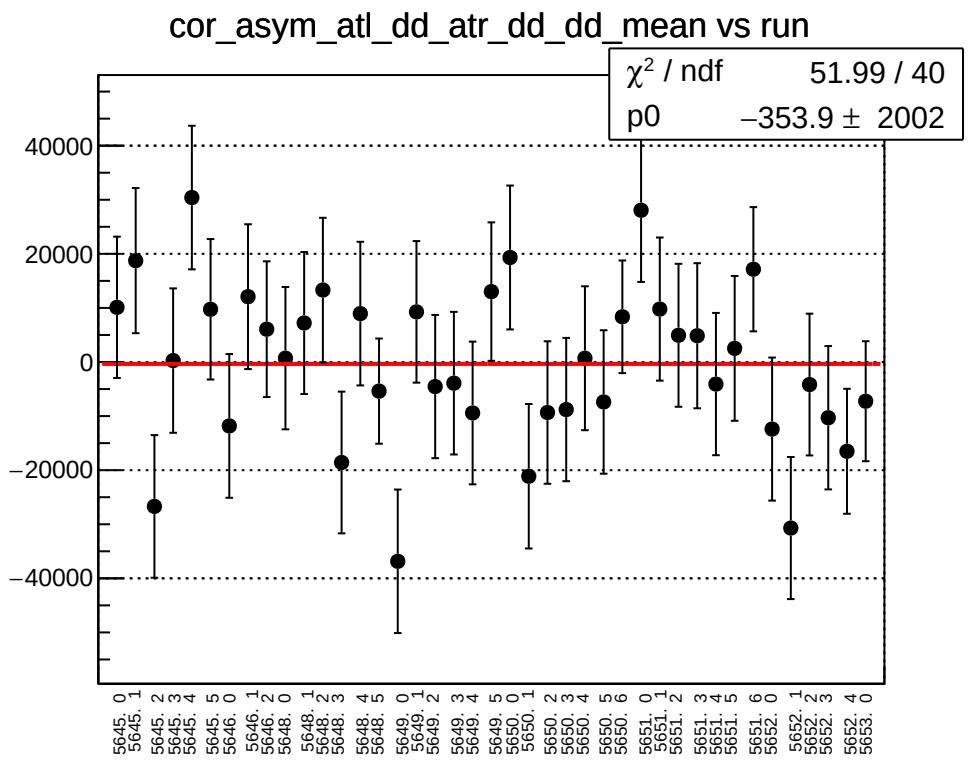

pull1D
Entries 41
Mean 0.0009337
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

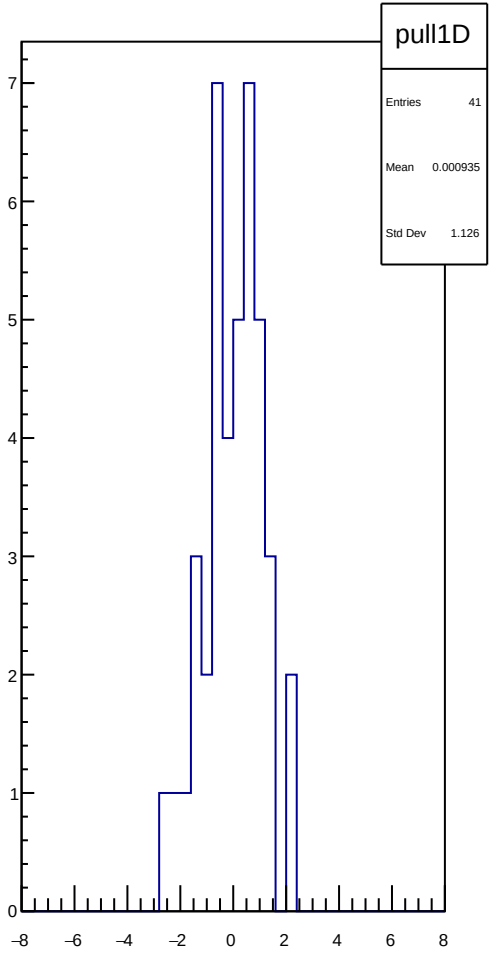

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.19 / 40
p0 1258 ± 1.415
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

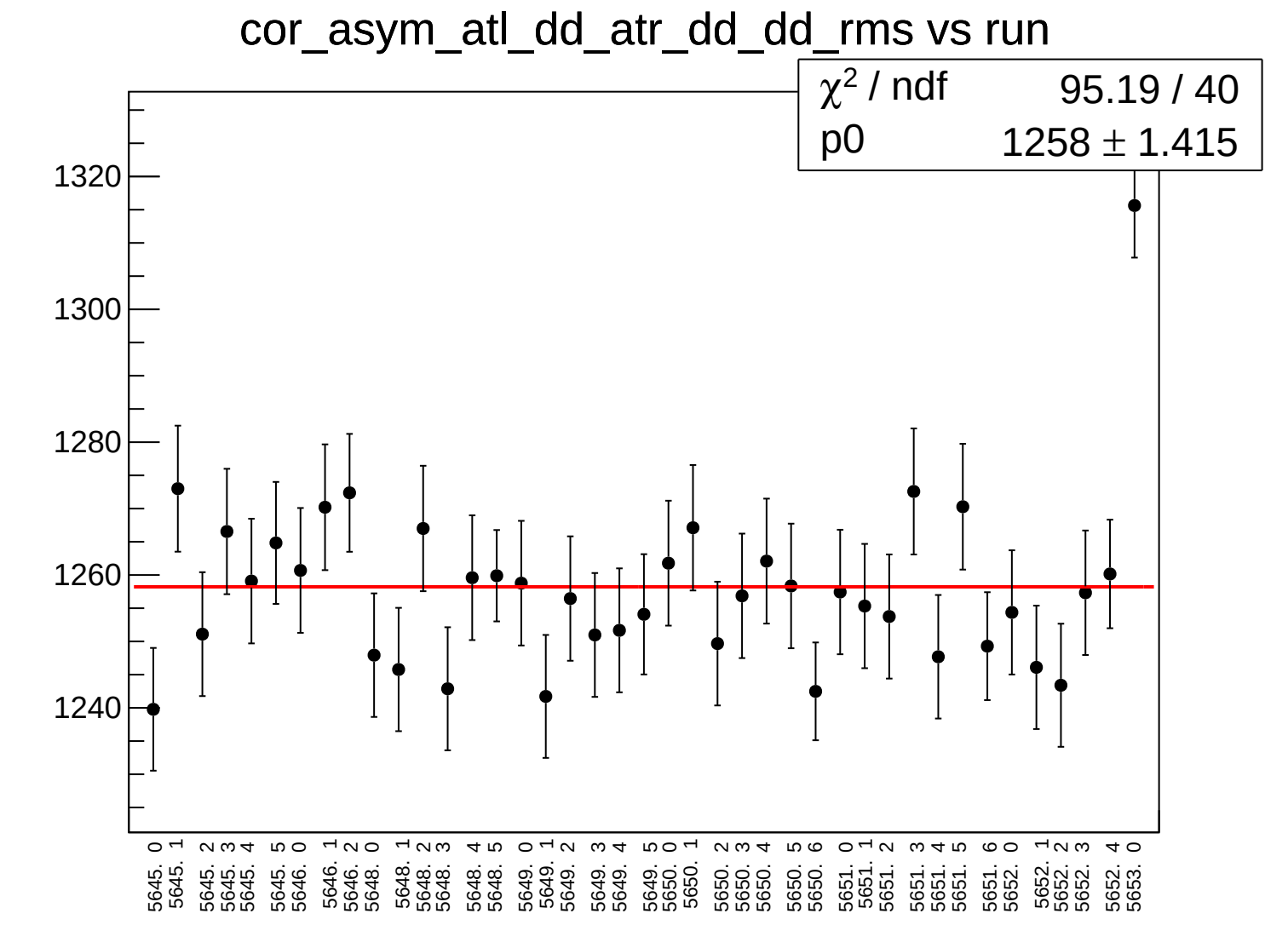

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 35.41 / 40
p0 −1772 ± 1852
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.14
Std Dev 36.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

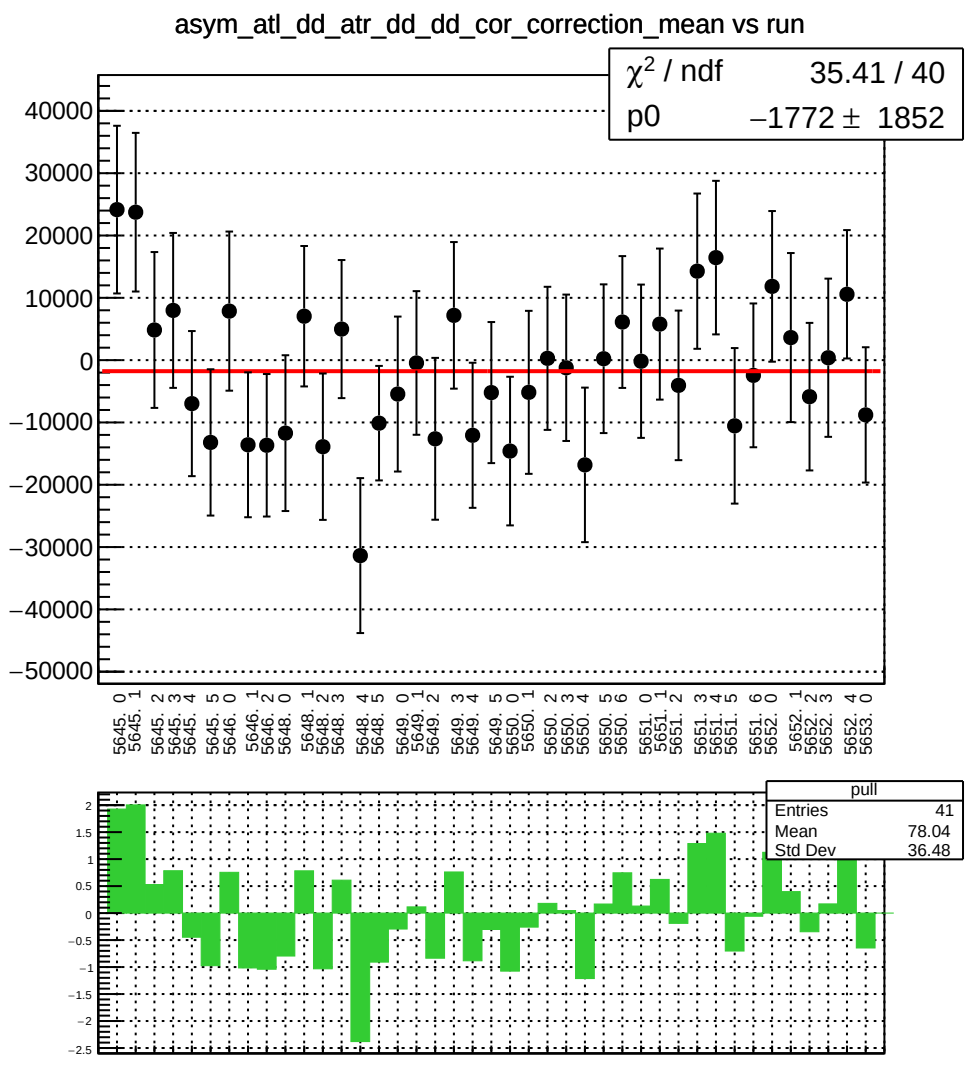

pull1D
Entries 41
Mean 0.01017
Std Dev 0.9292
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

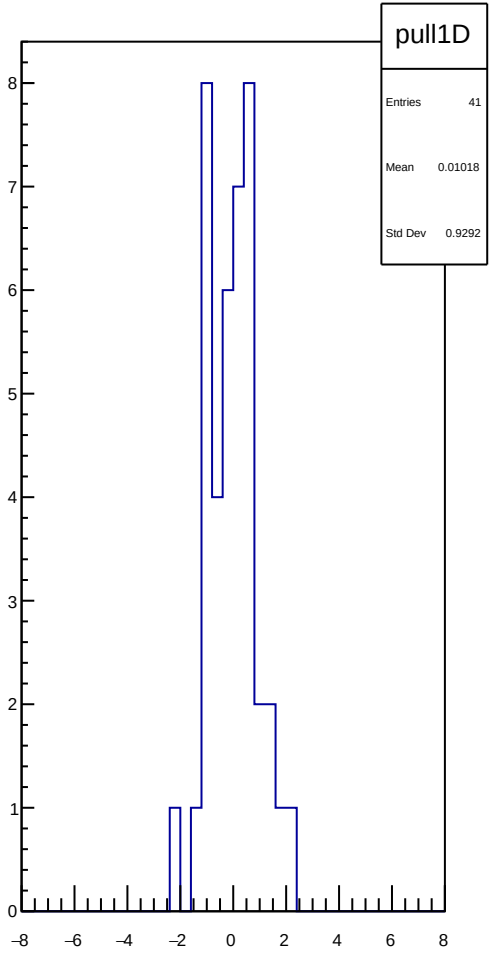

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2032 / 40
p0 1162 ± 1.309
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

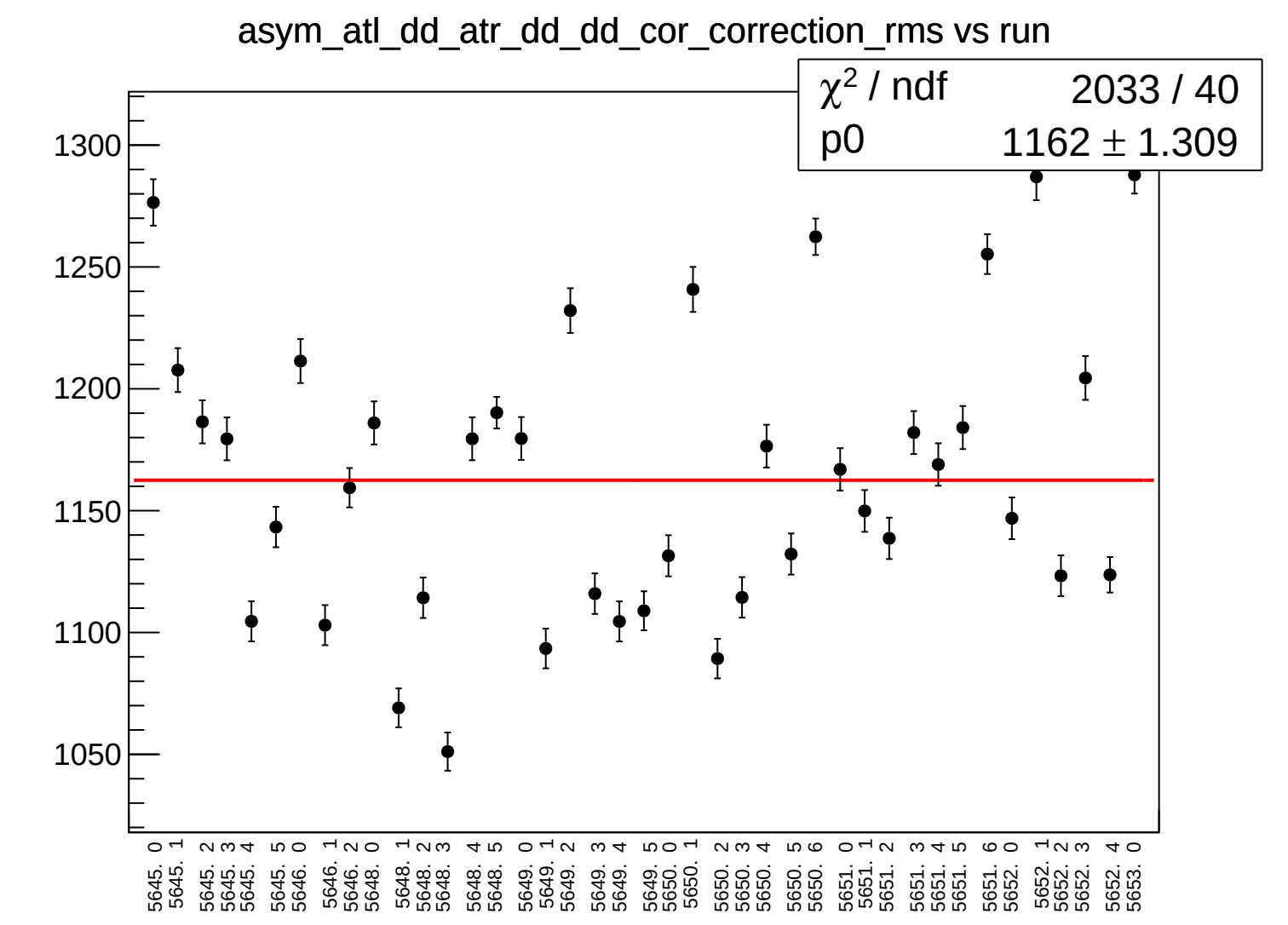

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 51.99 / 40
p0 −353.9 ± 2002
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2966
Std Dev 0
2
1
0
−1
−2
−3

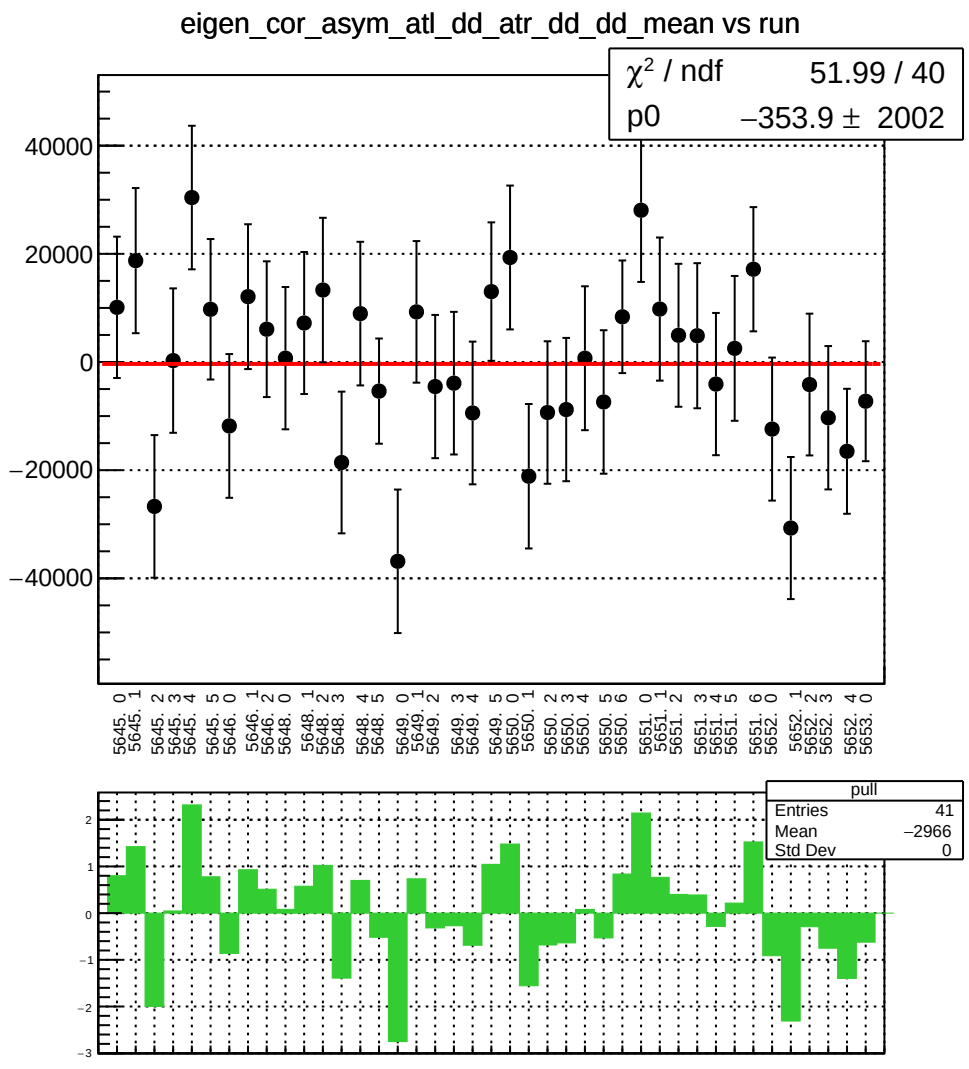

pull1D
Entries 41
Mean 0.000935
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

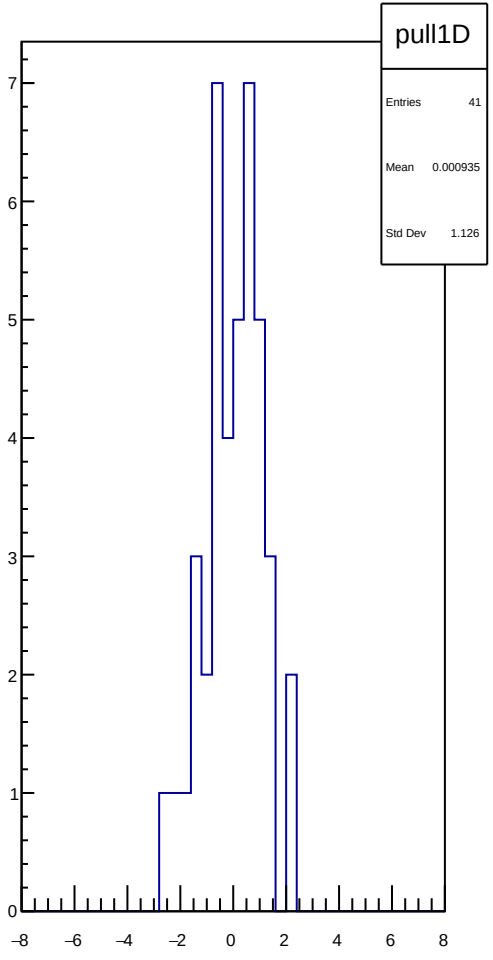

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.19 / 40
p0 1258 ± 1.415
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

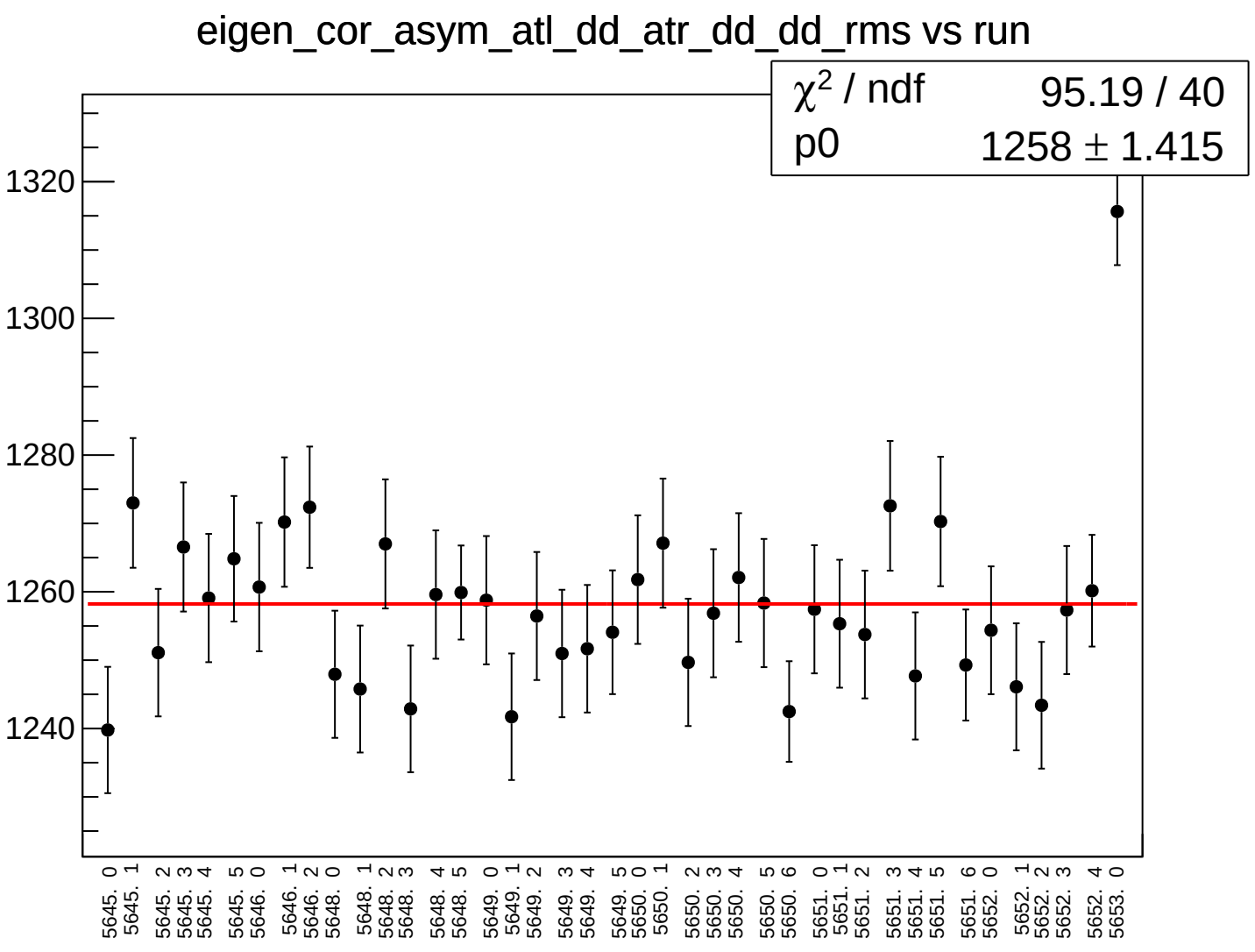

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 35.41 / 40
p0 −1772 ± 1852
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.04
Std Dev 36.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.01018
Std Dev 0.9292
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 2033 / 40
p0 1162 ± 1.309
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 51.99 / 40
p0 −353.9 ± 2002
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2966
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.000935
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 95.19 / 40
p0 1258 ± 1.415
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5648. 2
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5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
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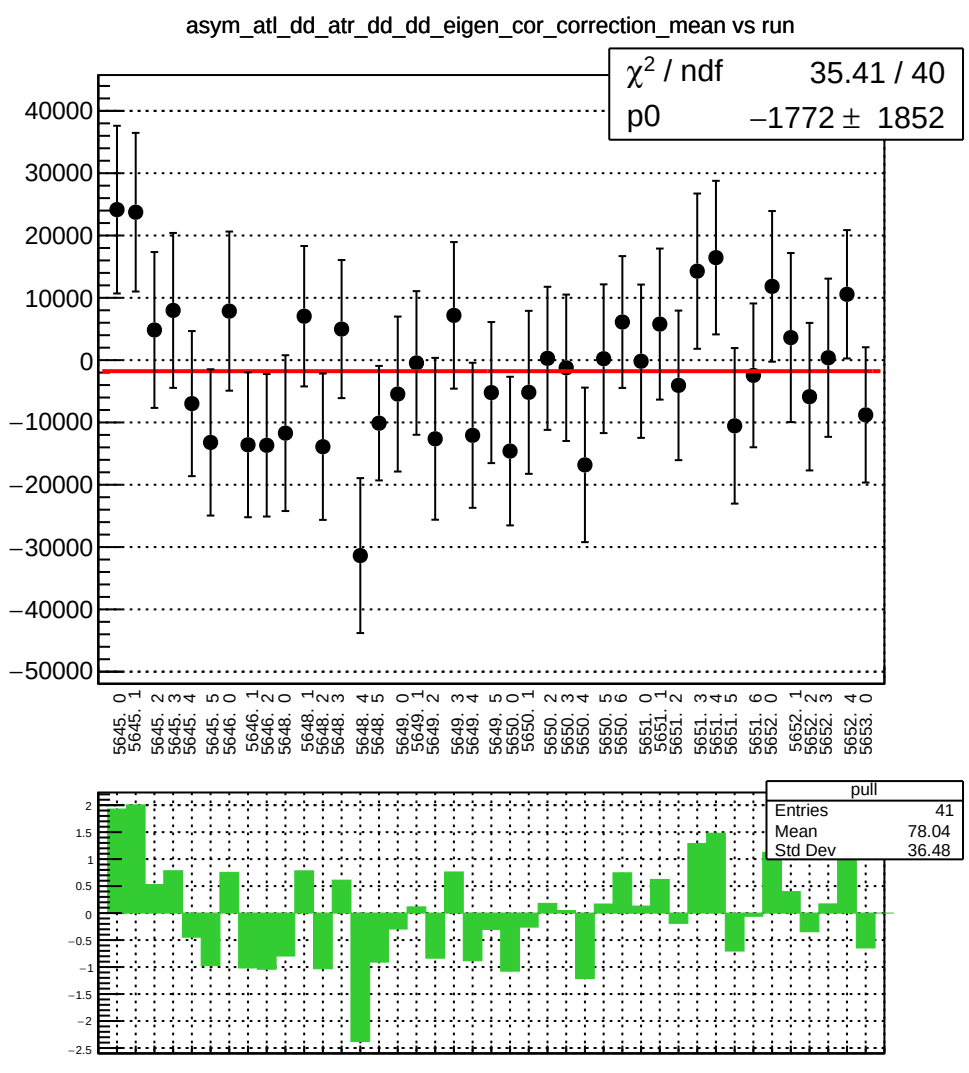
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 35.41 / 40
p0 −1772 ± 1852
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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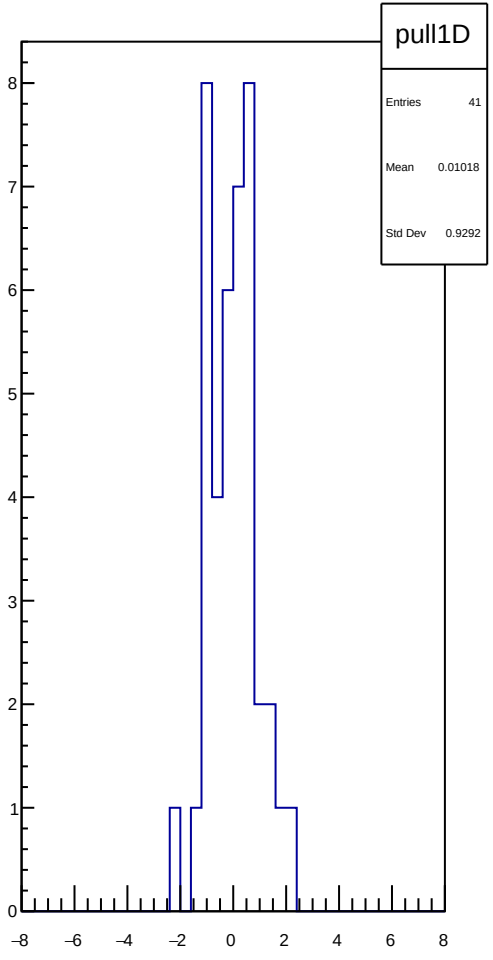
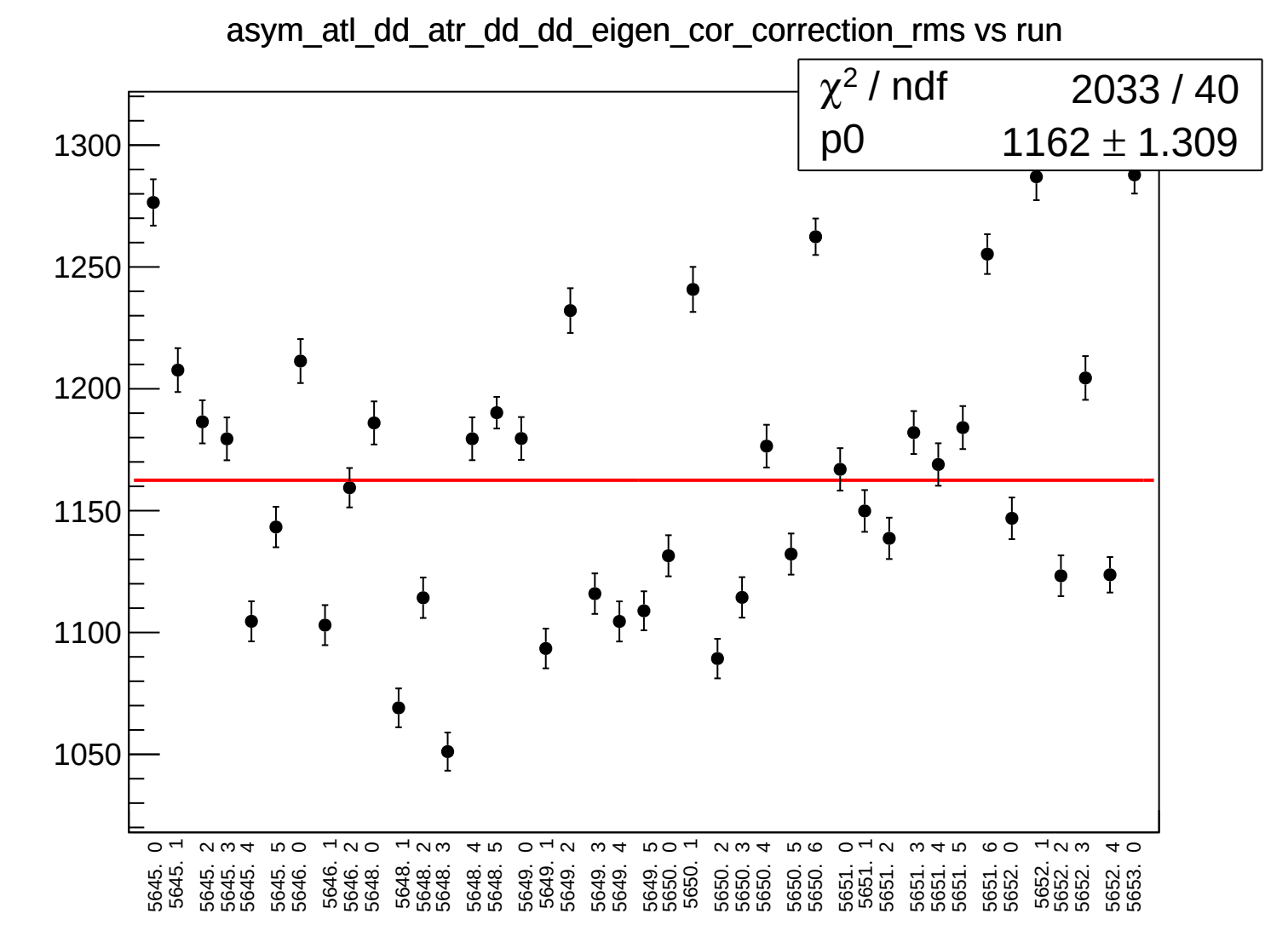
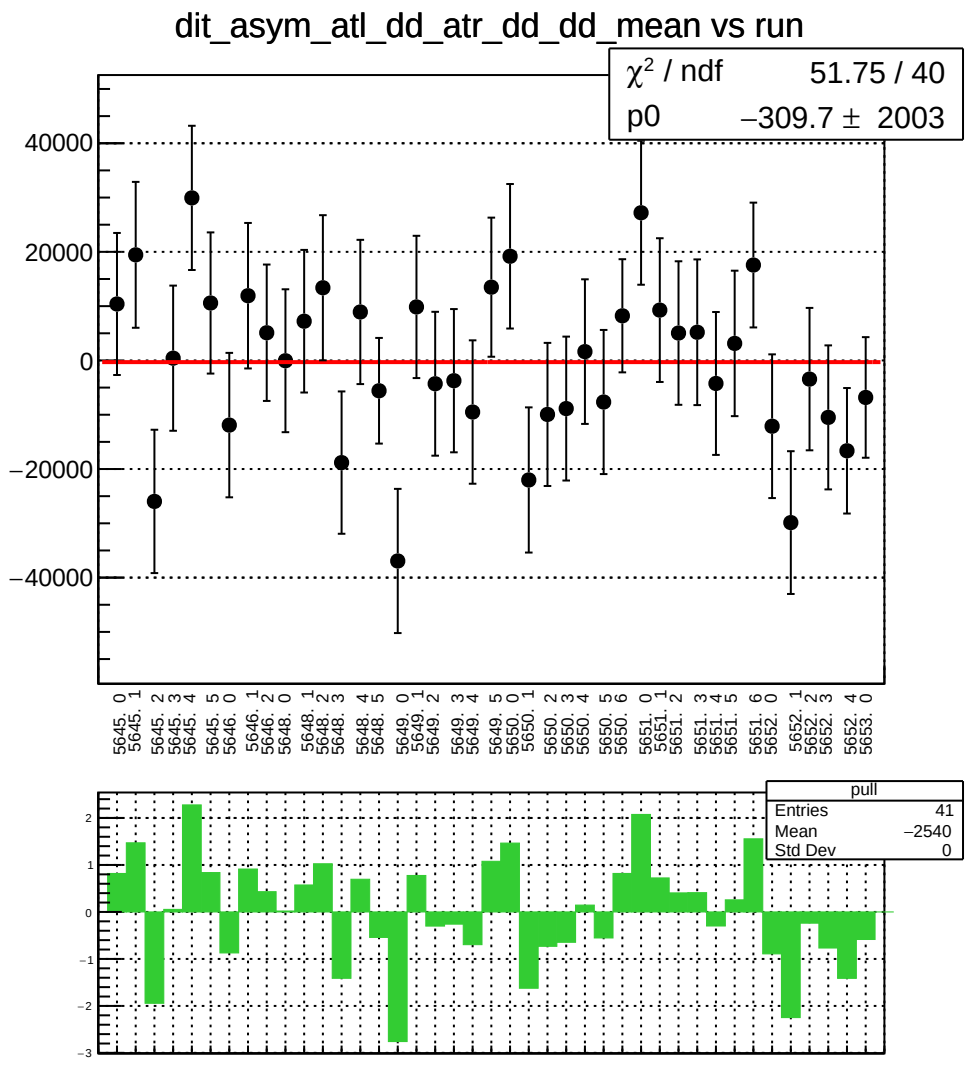
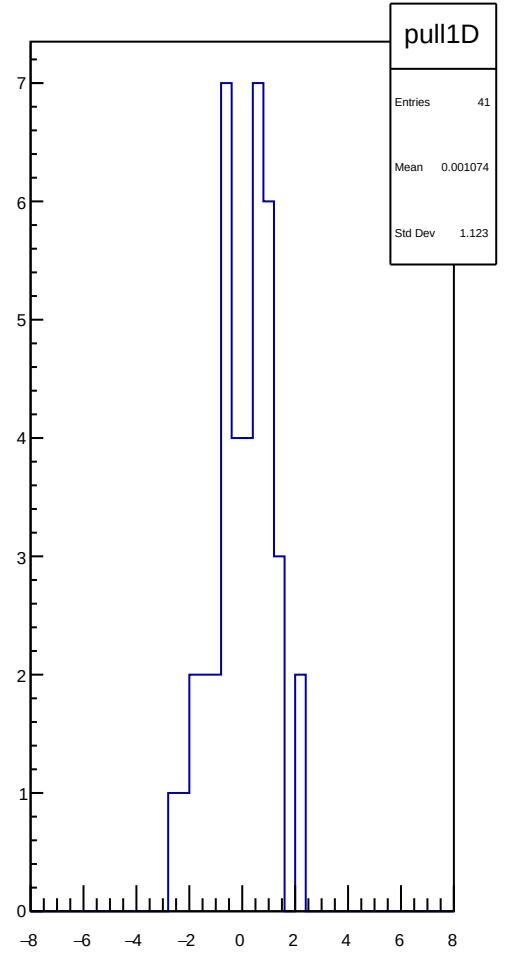
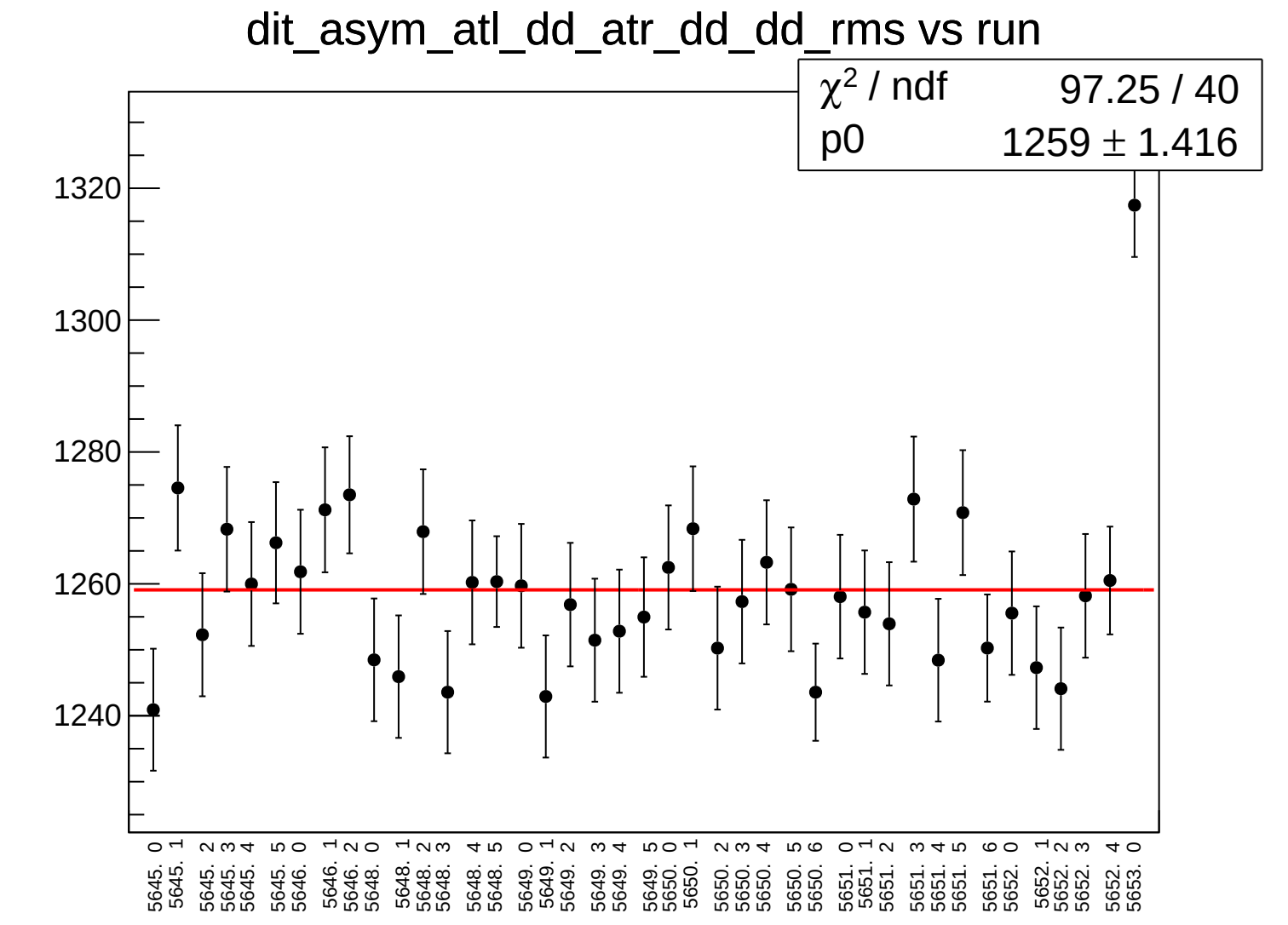
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.04
Std Dev 36.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

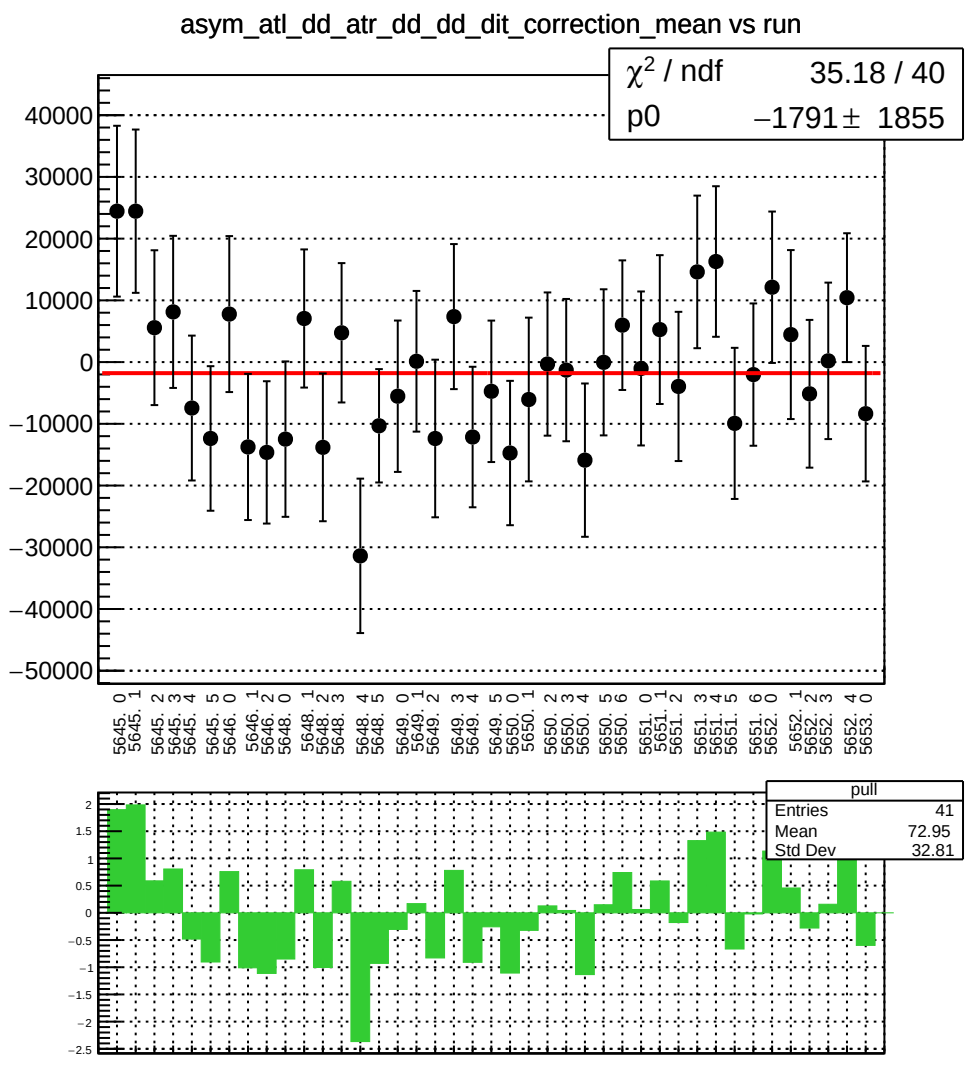

pull1D
Entries 41
Mean 0.01018
Std Dev 0.9292
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

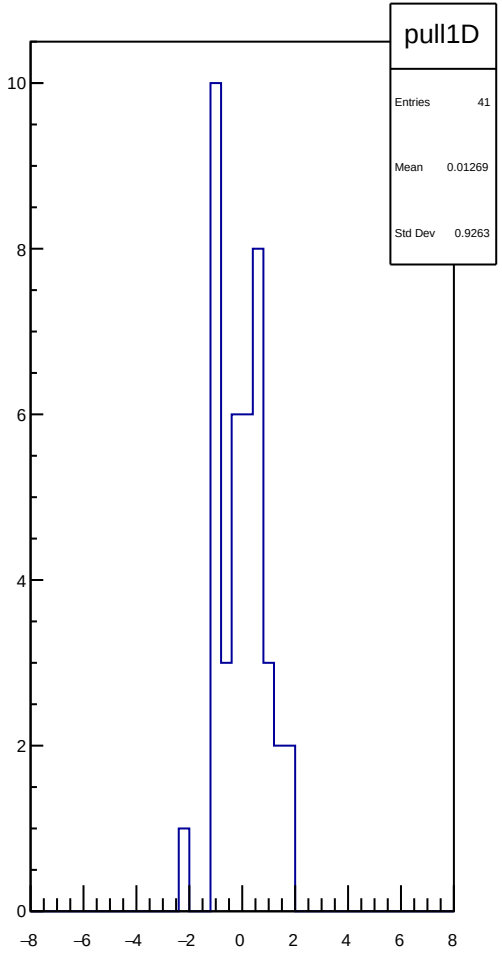

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2033 / 40
p0 1162 ± 1.309
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

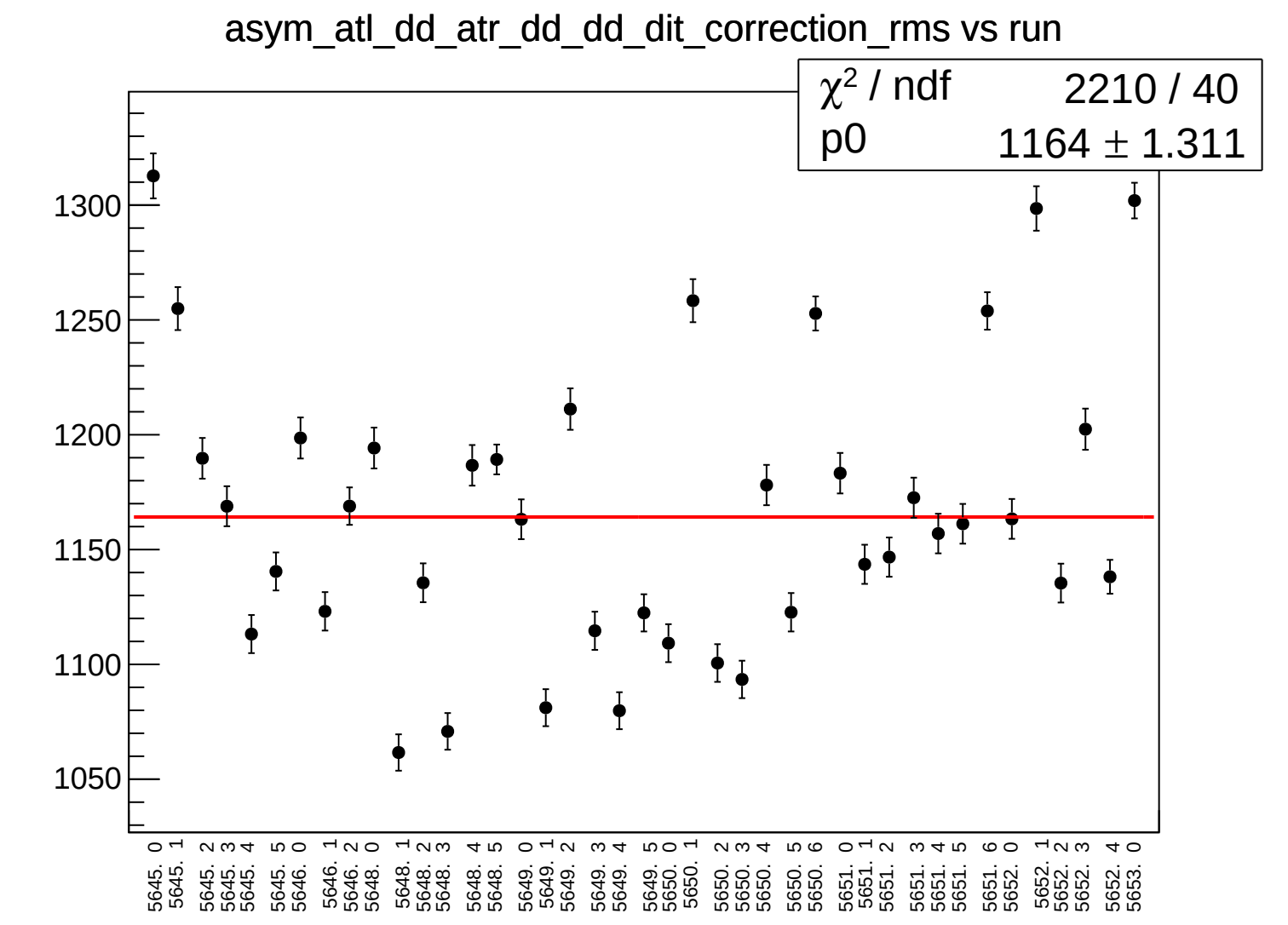

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 51.75 / 40
p0 −309.7 ± 2003
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2540
Std Dev 0
2
1
0
−1
−2
−3

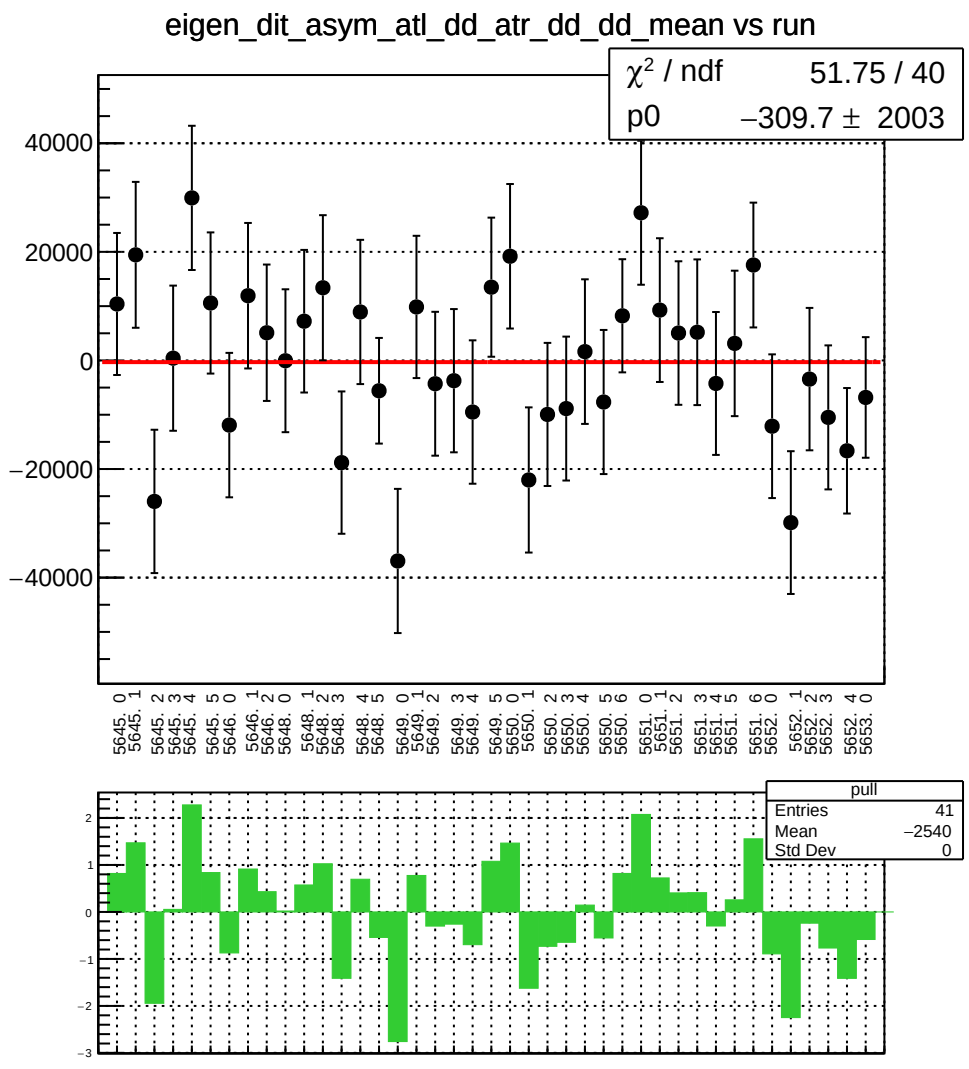

pull1D
Entries 41
Mean 0.001074
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

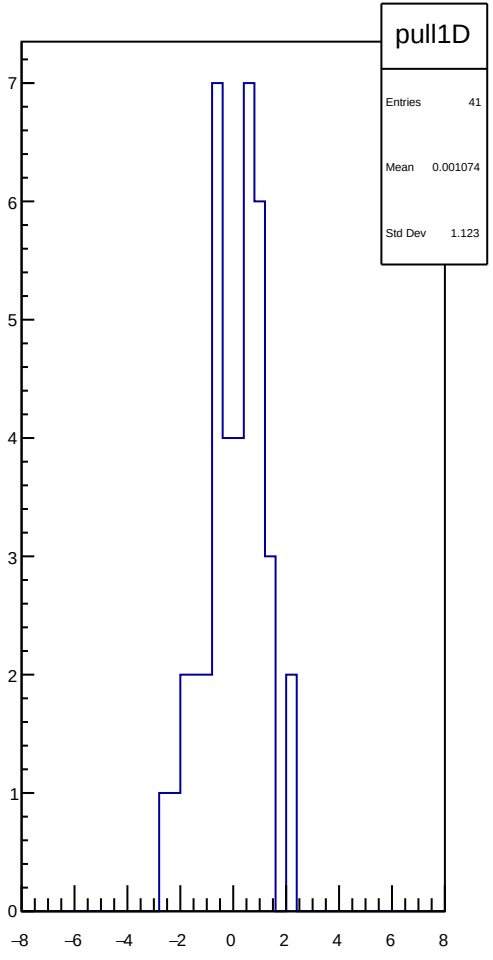

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 97.25 / 40
p0 1259 ± 1.416
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

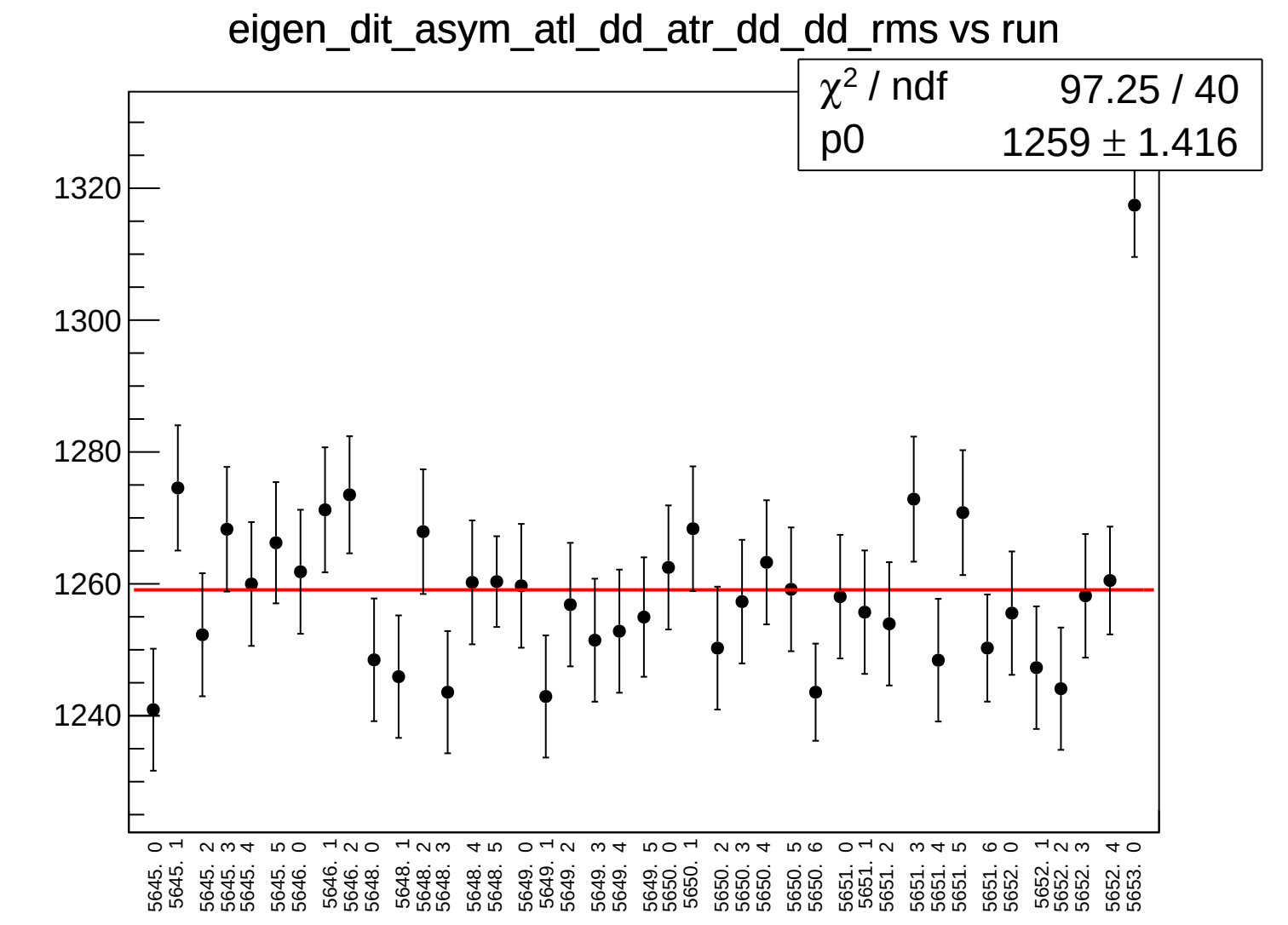

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 35.18 / 40
p0 −1791 ± 1855
pull
Entries 41
Mean 72.95
Std Dev 32.81

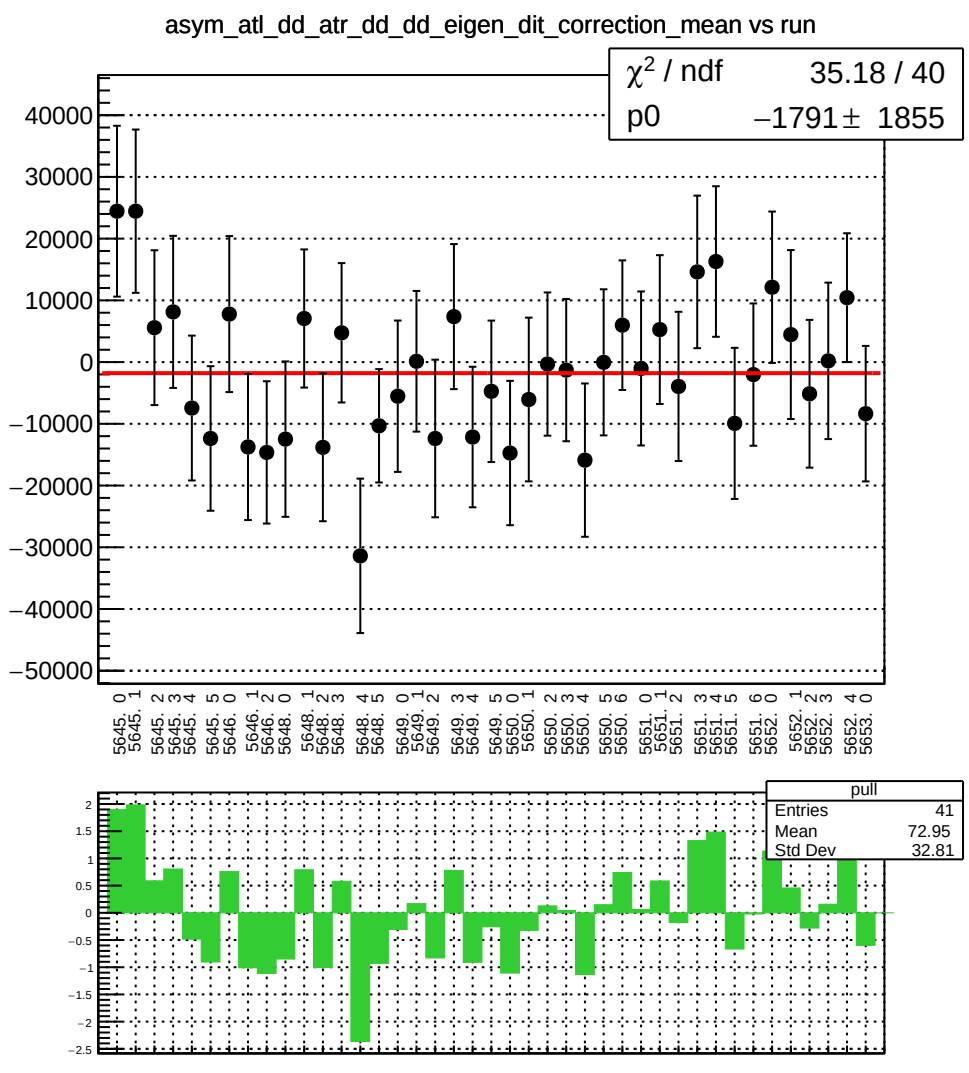

pull1D
Entries 41
Mean 0.01269
Std Dev 0.9263

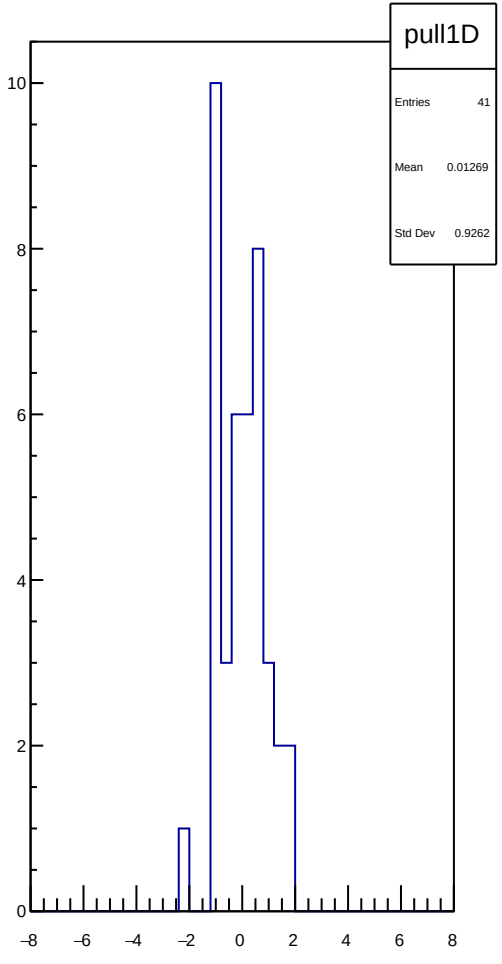

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2210 / 40
p0 1164 ± 1.311
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

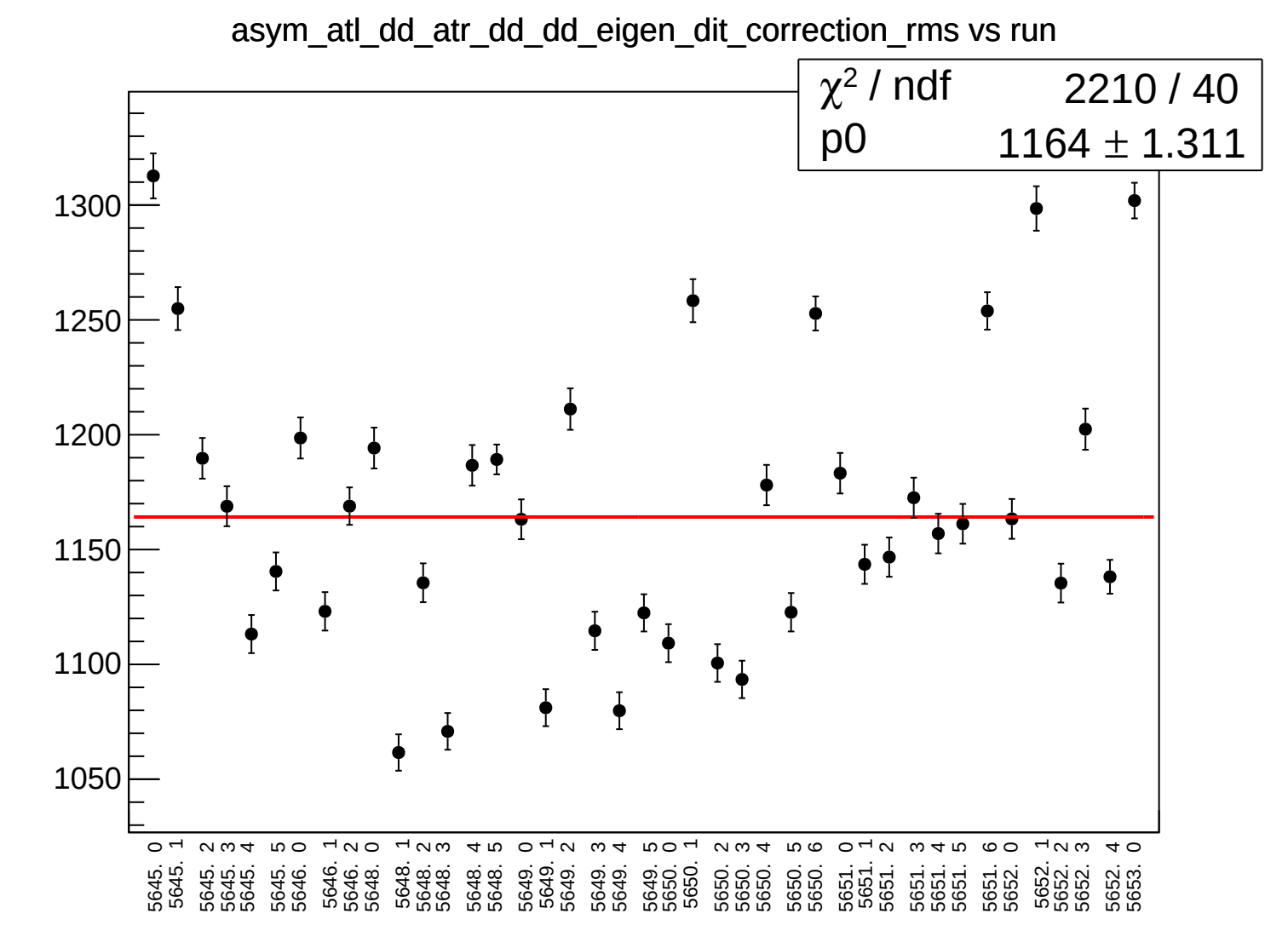

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 51.75 / 40
p0 −309.7 ± 2003
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2540
Std Dev 0
2
1
0
−1
−2
−3

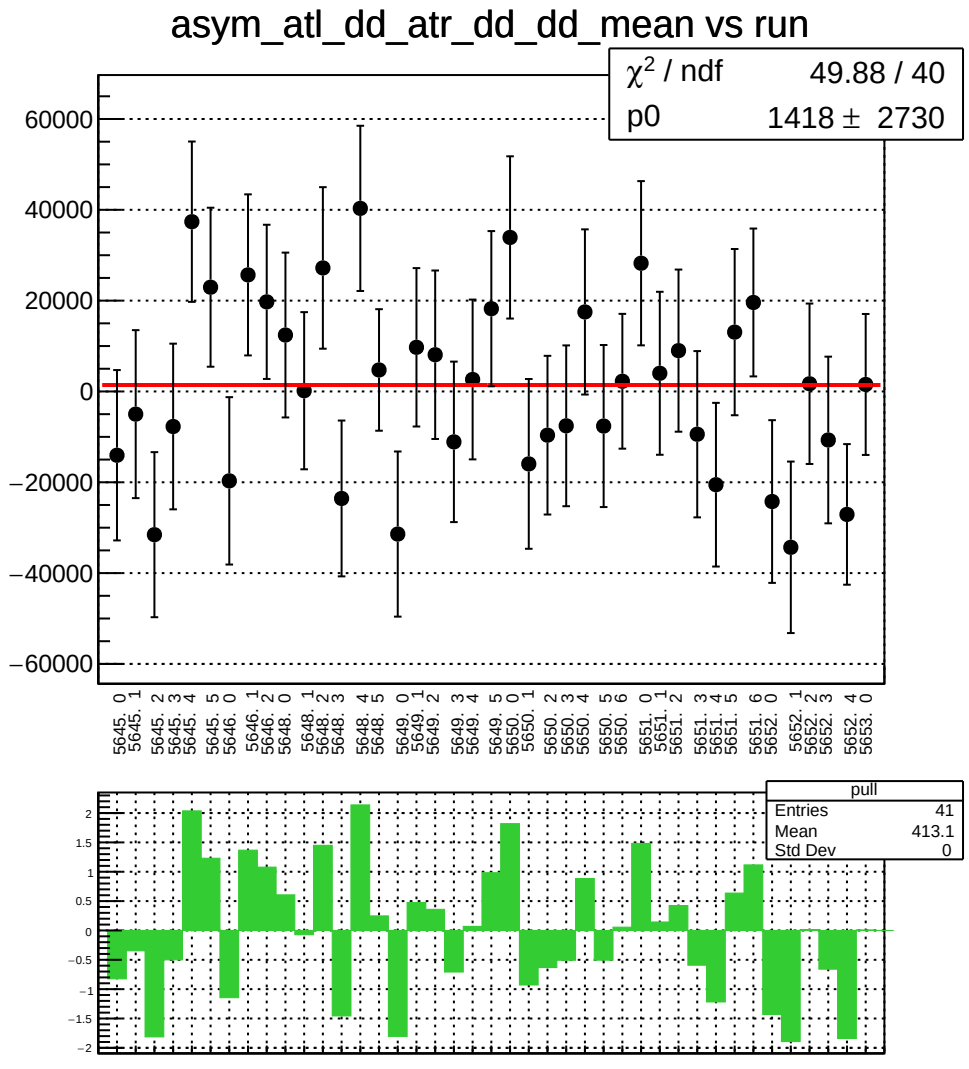

pull1D
Entries 41
Mean 0.001074
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

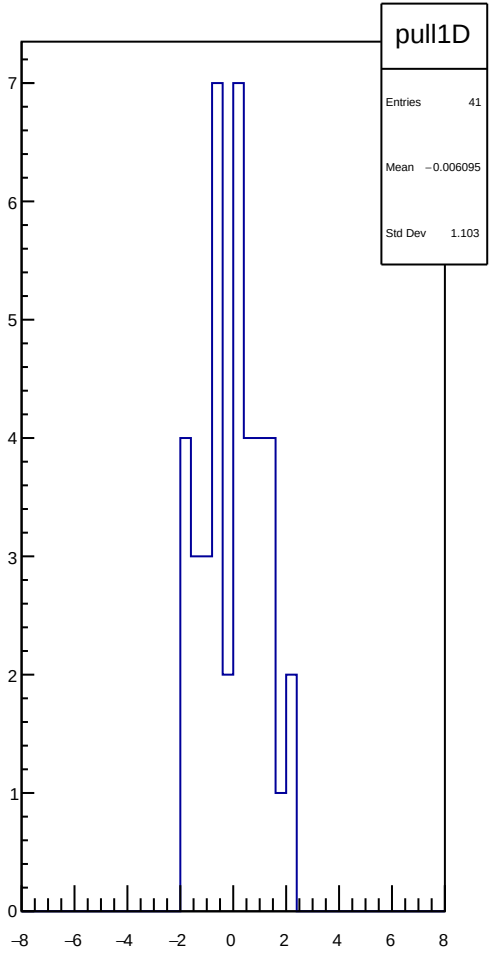

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 97.25 / 40
p0 1259 ± 1.416
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

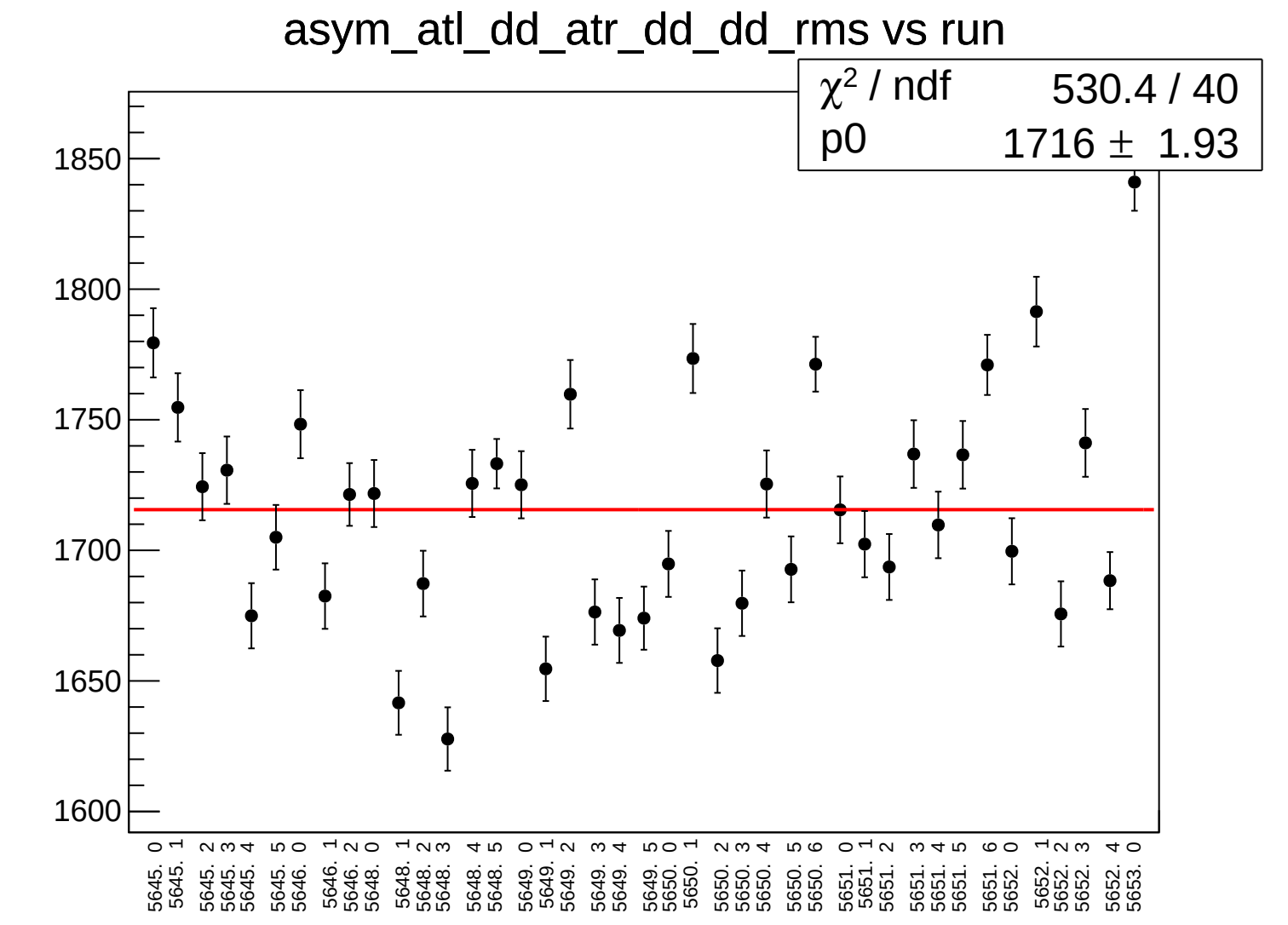

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.18 / 40
p0 −1791 ± 1855
pull
Entries 41
Mean 72.95
Std Dev 32.81

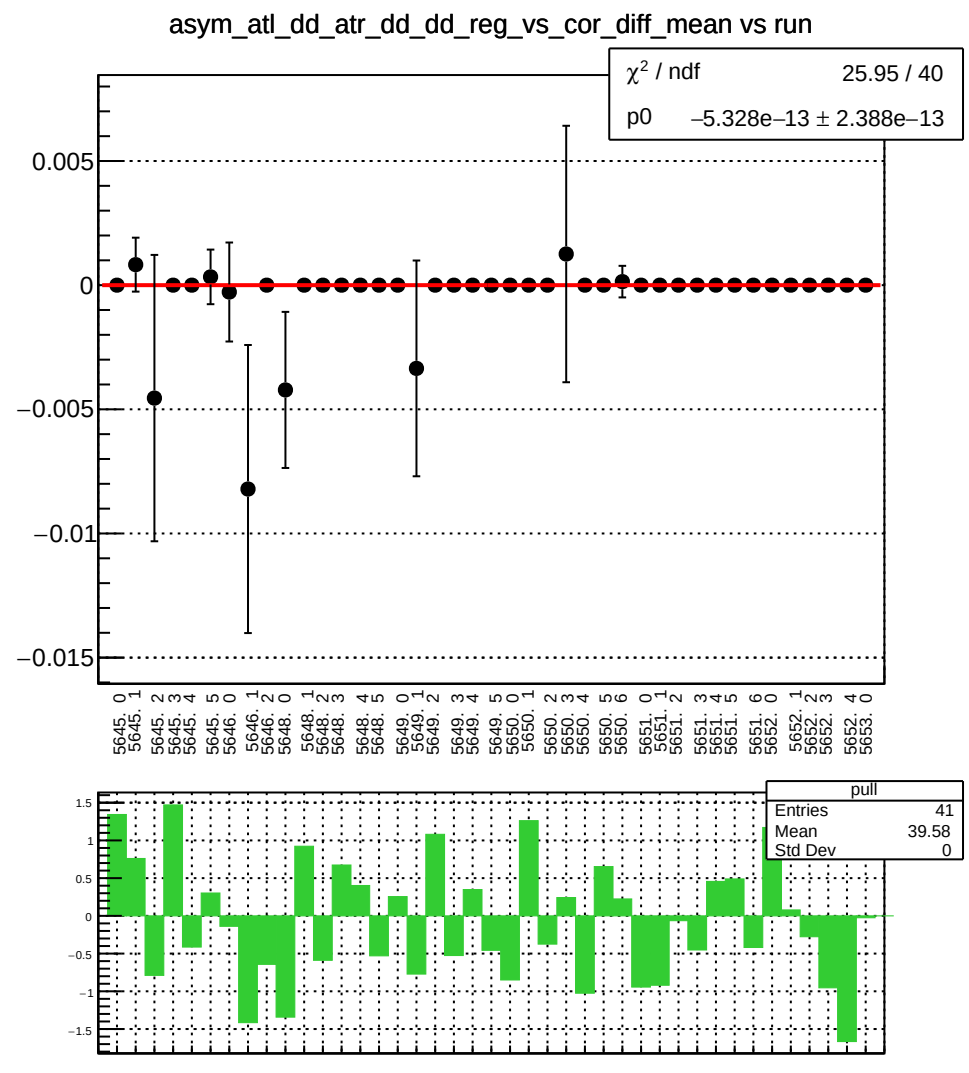

pull1D
Entries 41
Mean 0.01269
Std Dev 0.9262

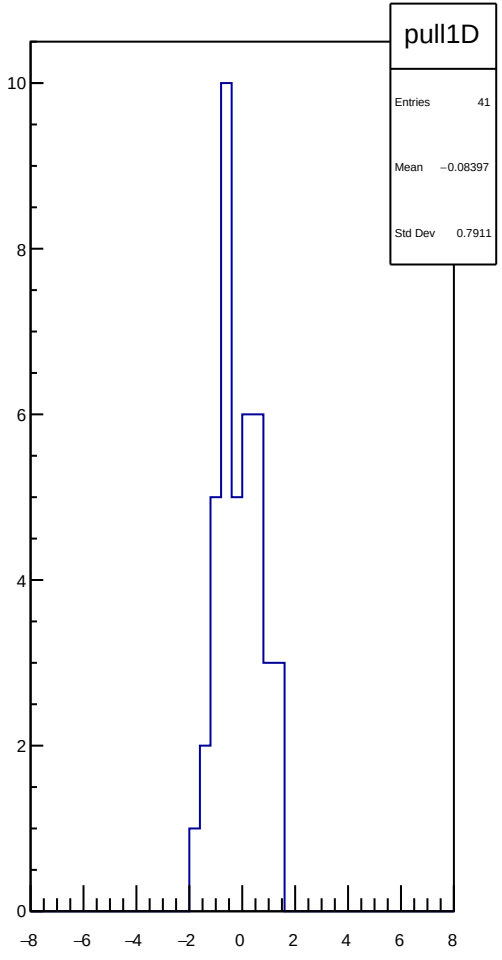

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2210 / 40
p0 1164 ± 1.311
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

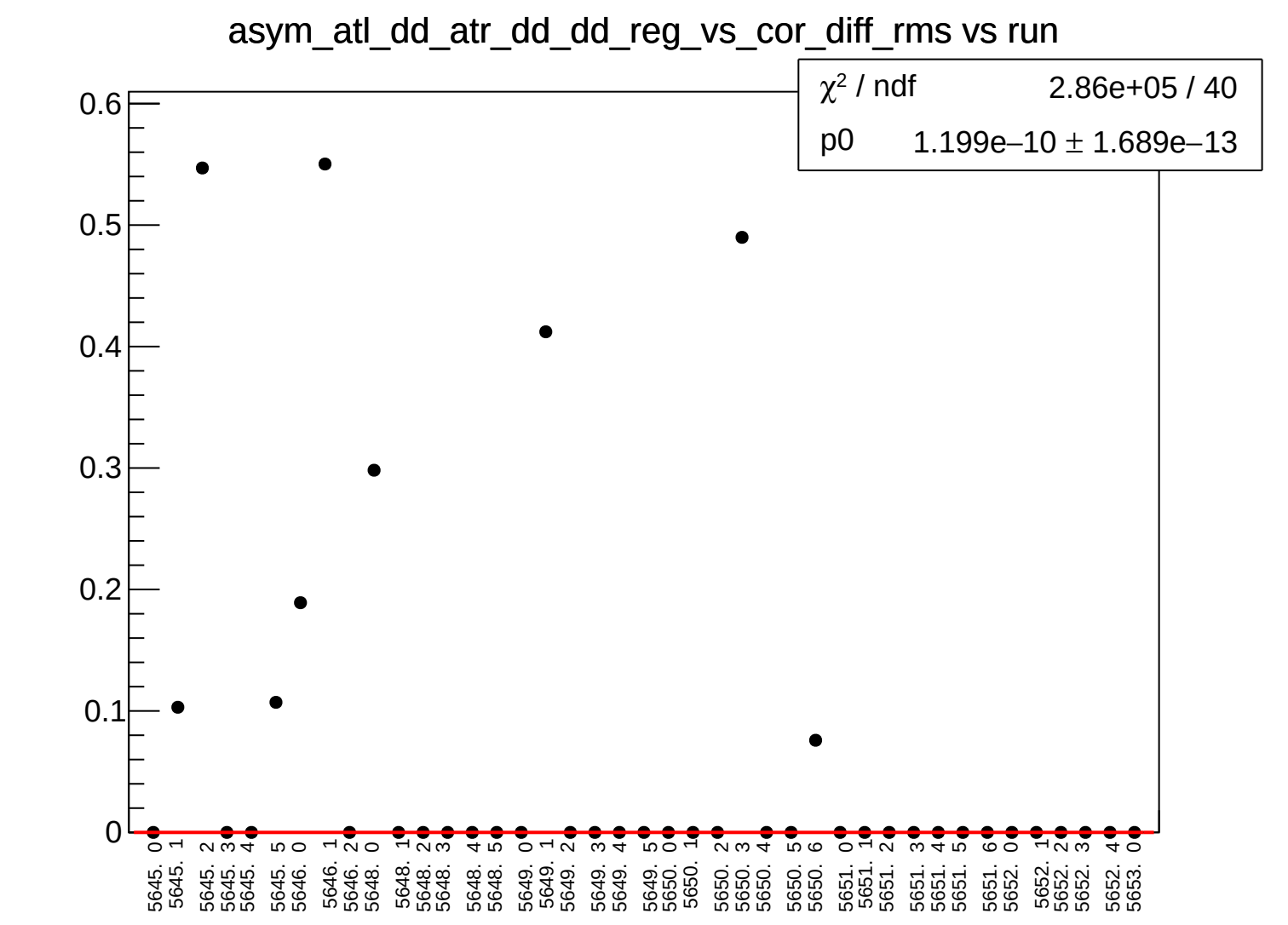

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.88 / 40
p0 1418 ± 2730
pull
Entries 41
Mean 413.1
Std Dev 0

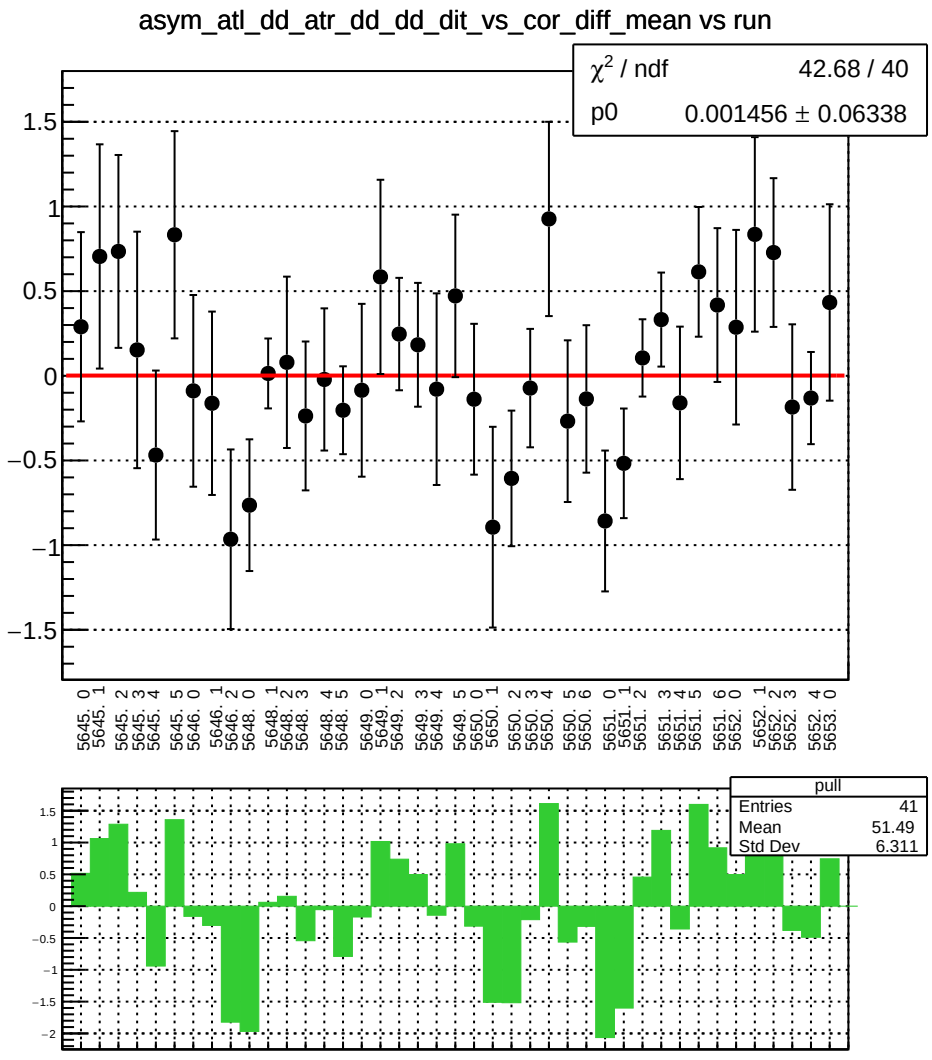

pull1D
Entries 41
Mean −0.006095
Std Dev 1.103

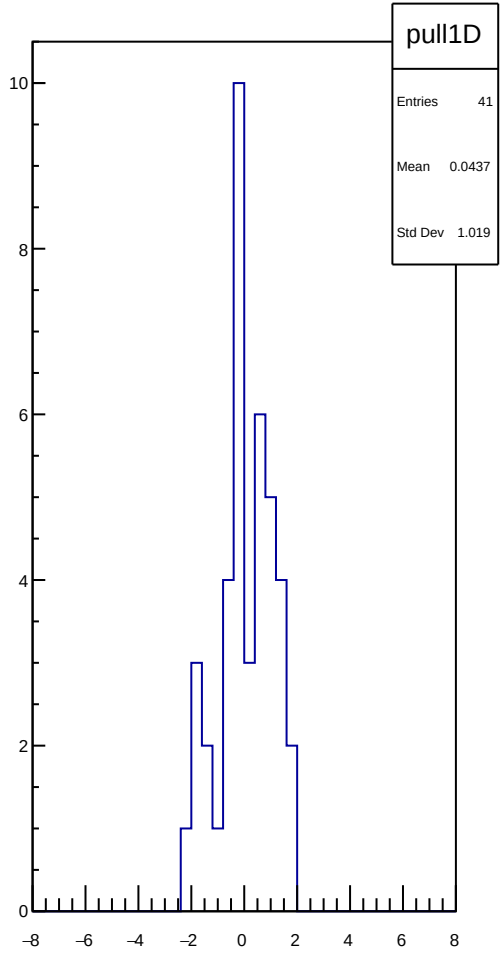

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 530.4 / 40
p0 1716 ± 1.93
1850
1800
1750
1700
1650
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

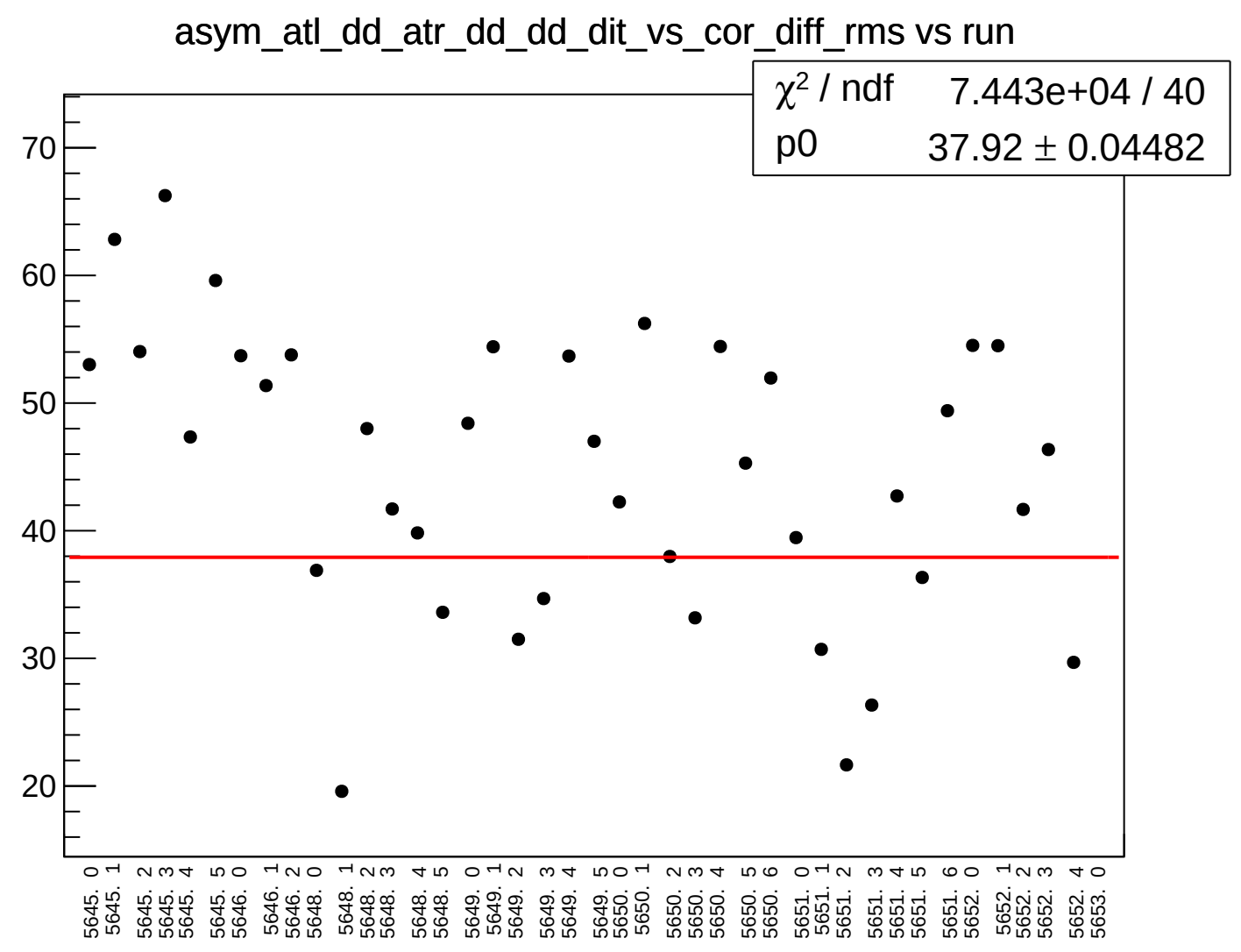

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.95 / 40
p0 −5.328e−13 ± 2.388e−13
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 39.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

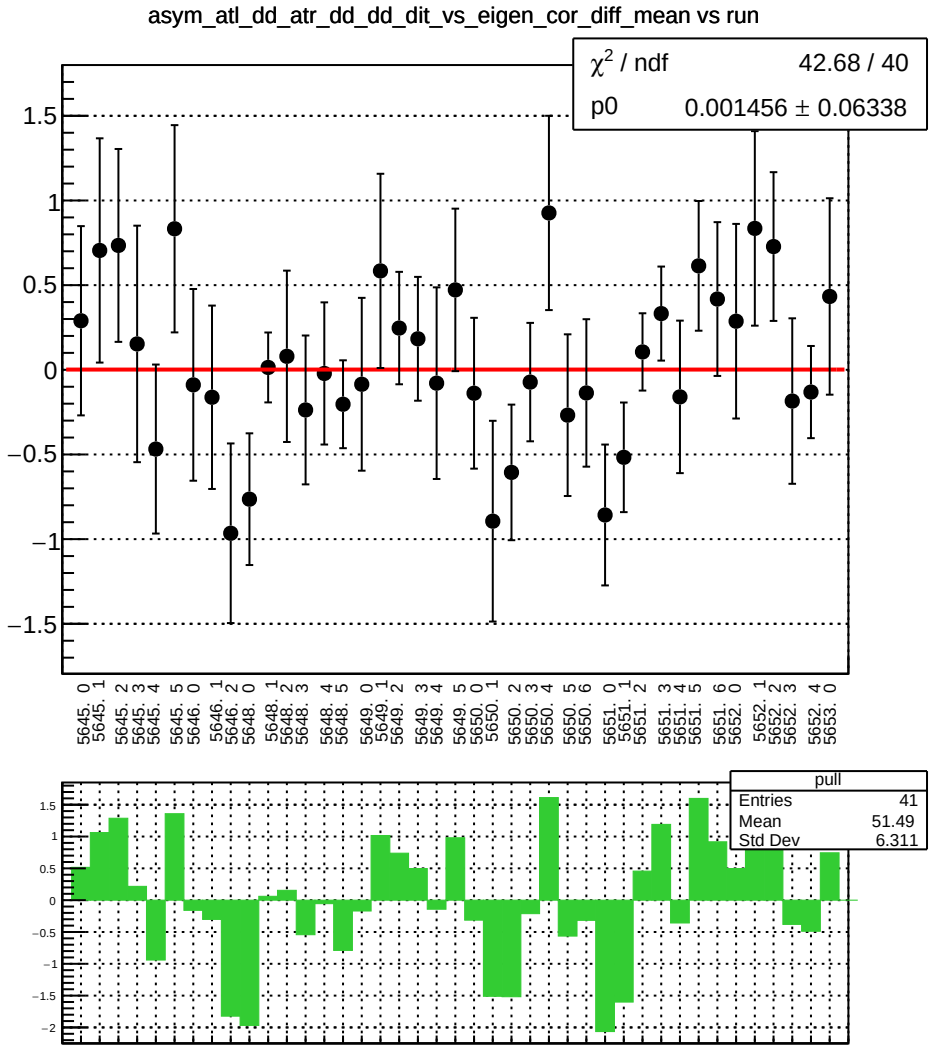

pull1D
Entries 41
Mean −0.08397
Std Dev 0.7911
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

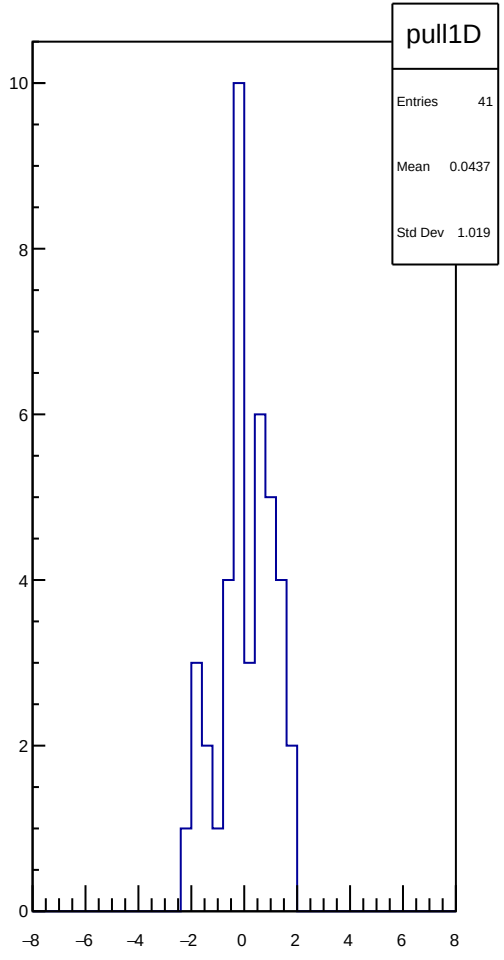

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.86e+05 / 40
p0 1.199e−10 ± 1.689e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

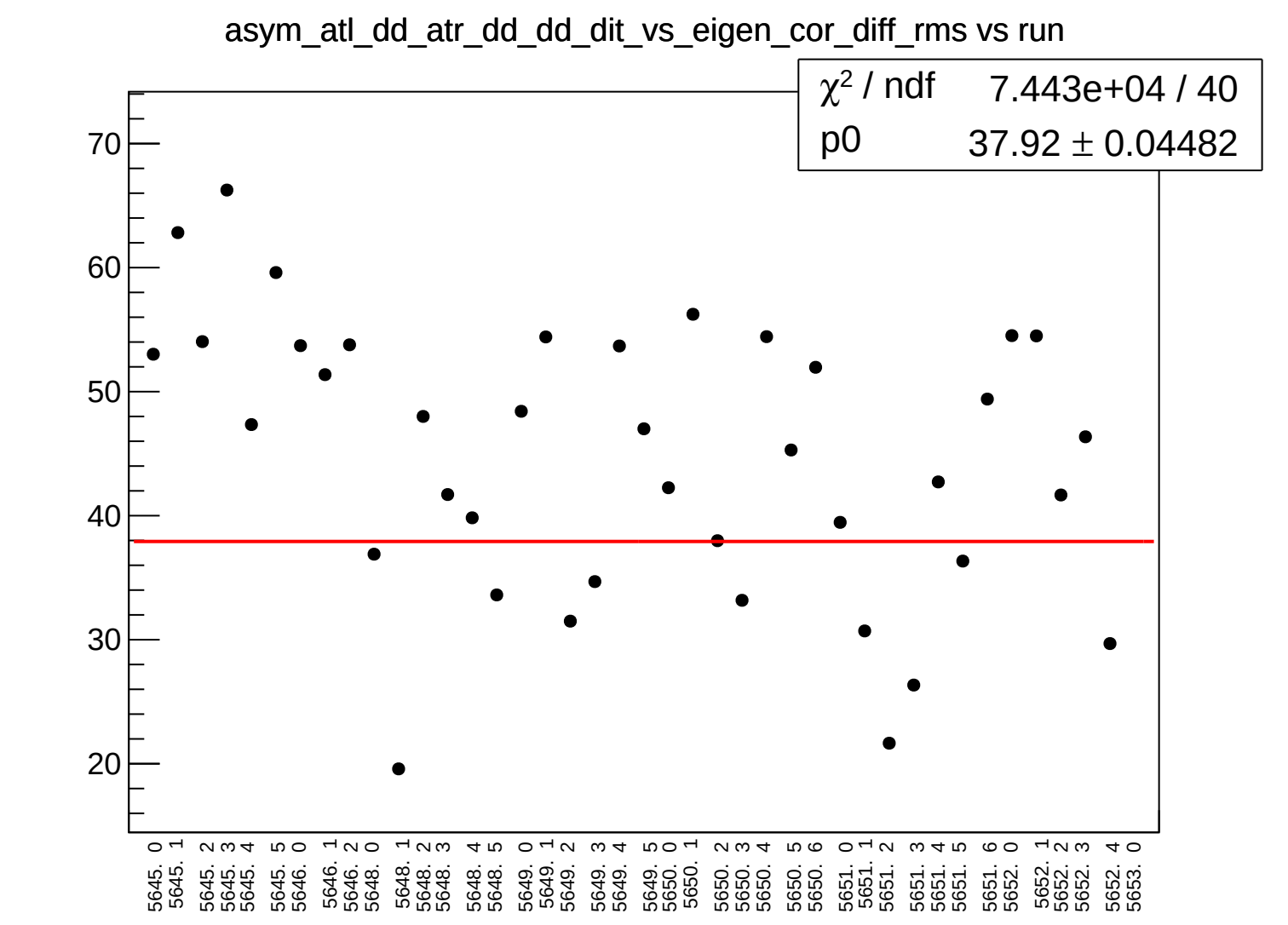

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001456 ± 0.06338
pull
Entries 41
Mean 51.49
Std Dev 6.311

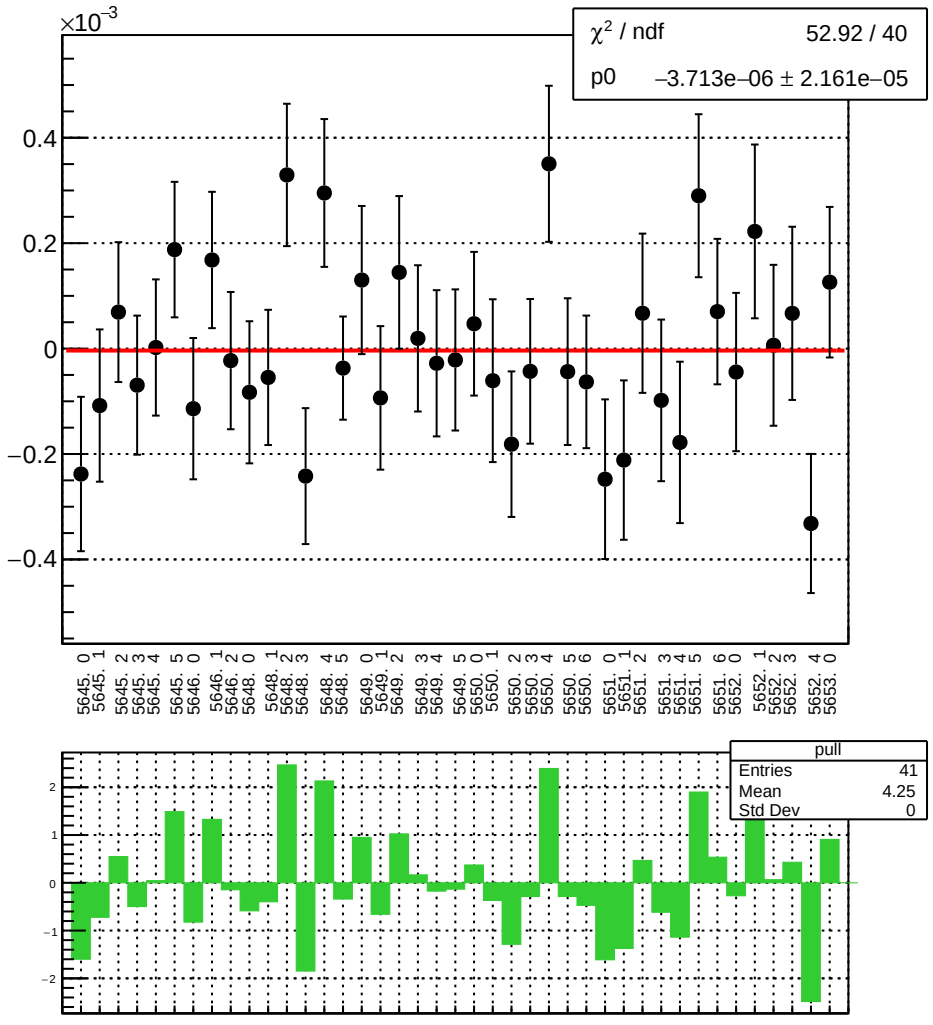

pull1D
Entries 41
Mean 0.0437
Std Dev 1.019

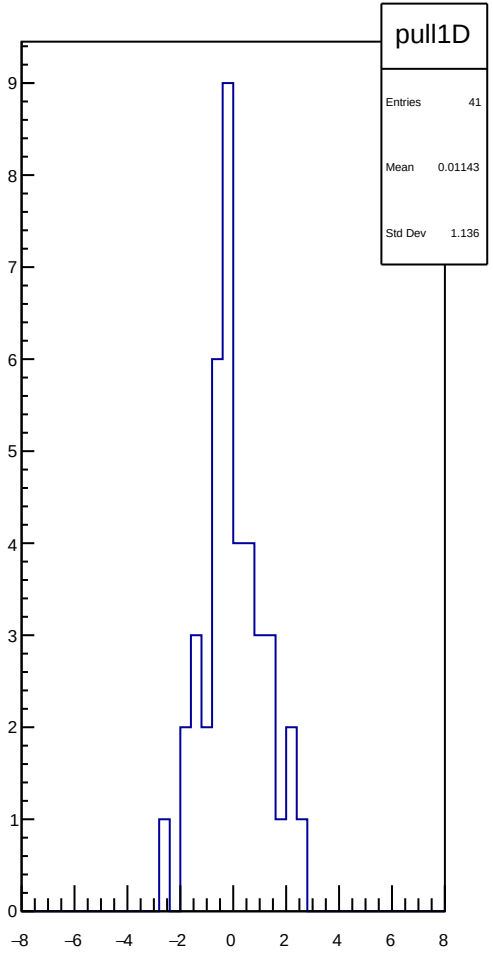

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.443e+04 / 40
p0 37.92 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

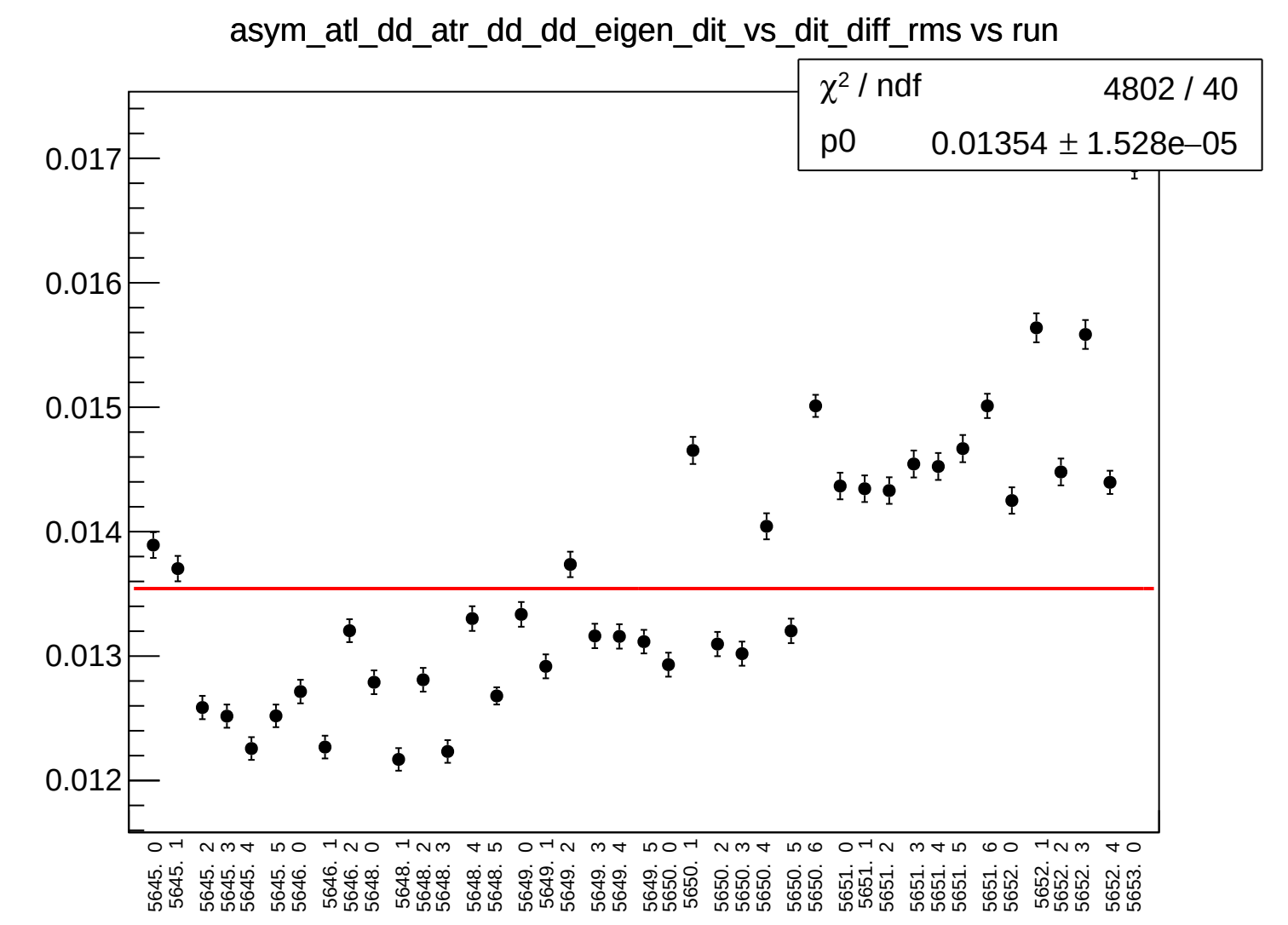

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001456 ± 0.06338
pull
Entries 41
Mean 51.49
Std Dev 6.311

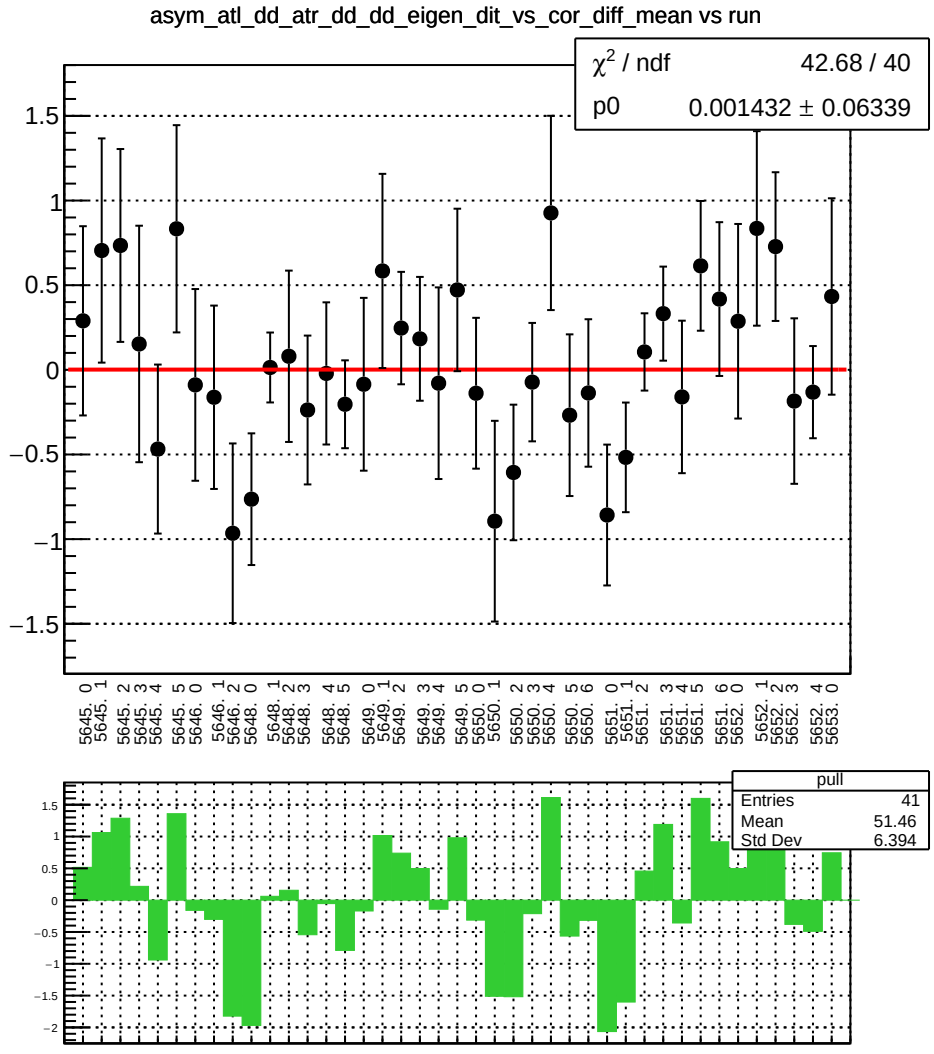

pull1D
Entries 41
Mean 0.0437
Std Dev 1.019

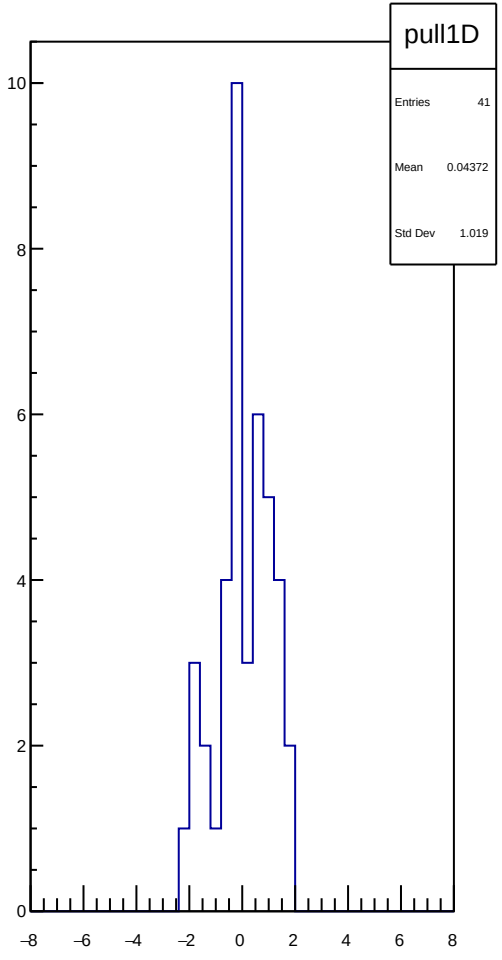

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.443e+04 / 40
p0 37.92 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

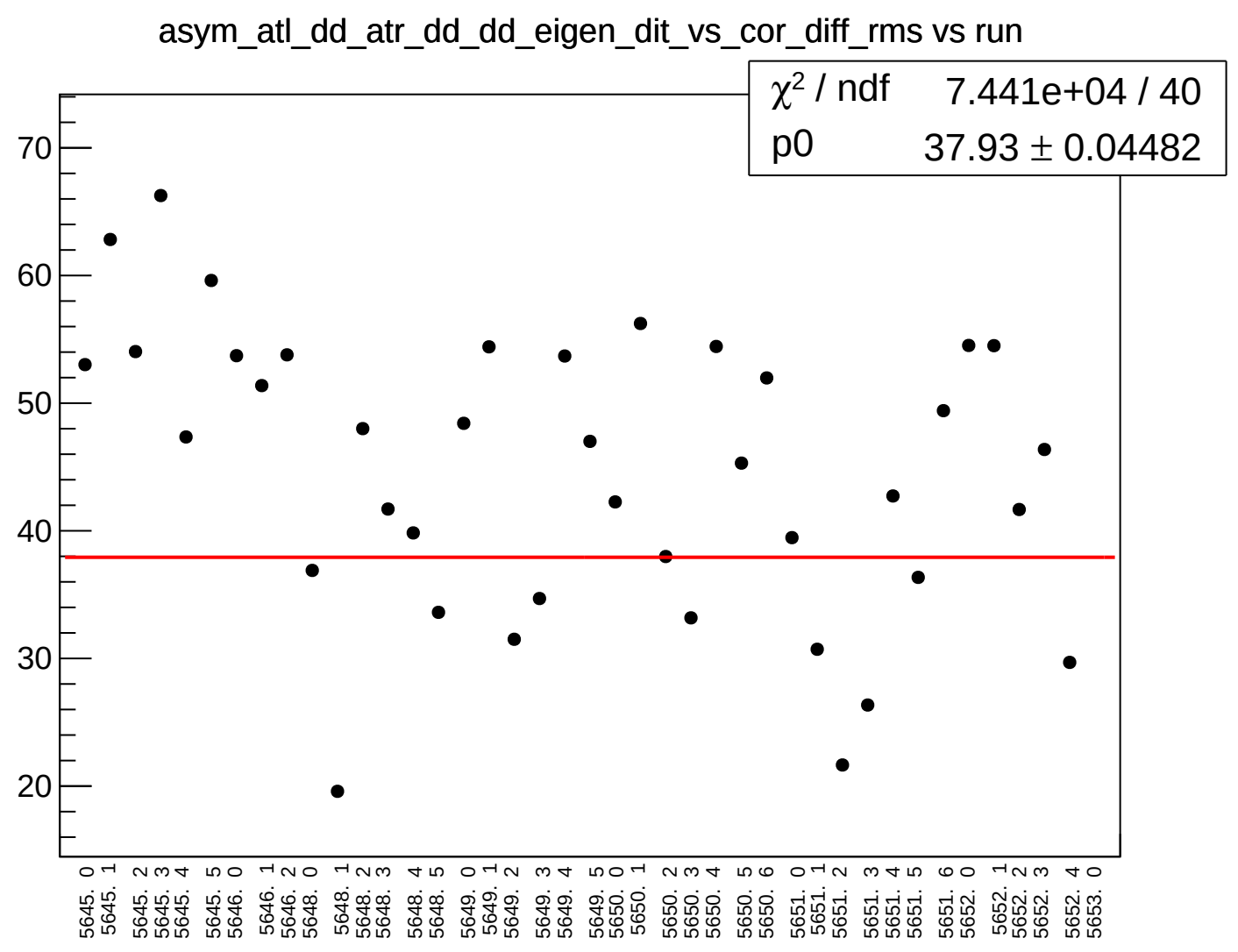

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.92 / 40
p0 −3.713e−06 ± 2.161e−05
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.25
Std Dev 0
2
1
0
−1
−2

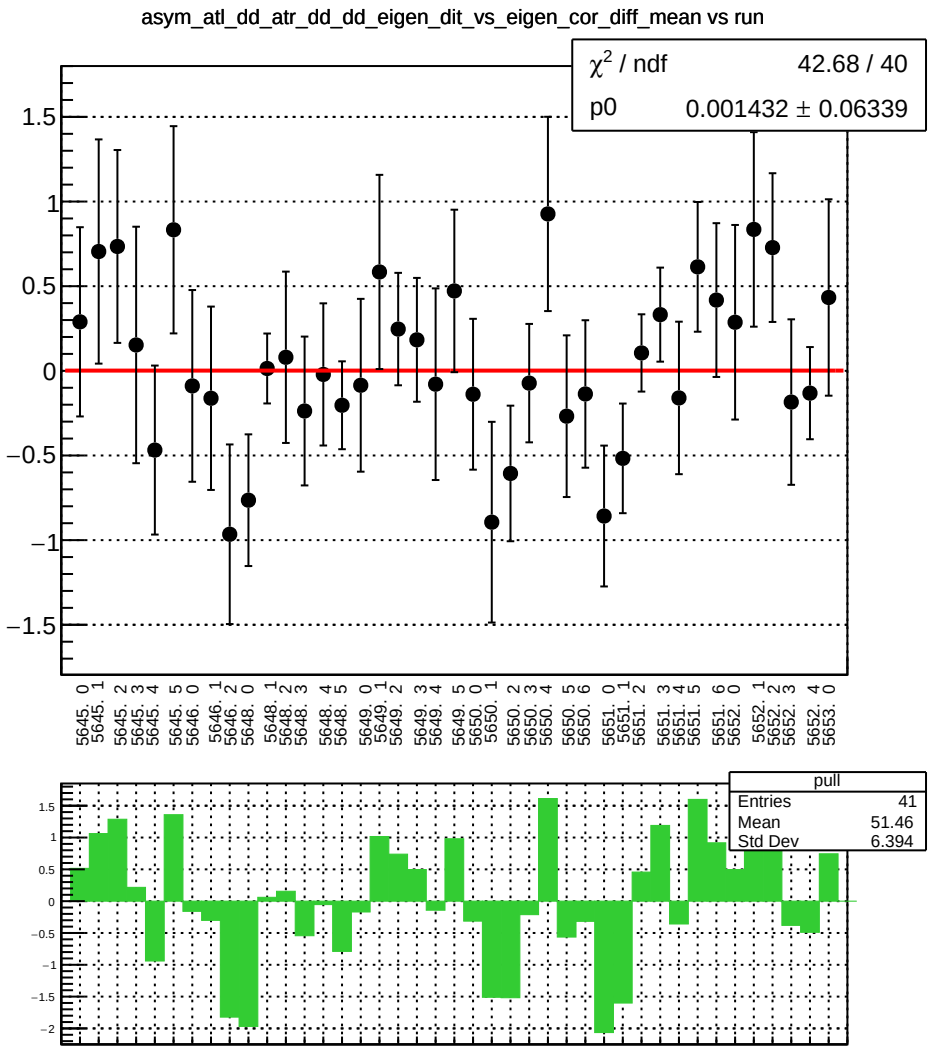

pull1D
Entries 41
Mean 0.01143
Std Dev 1.136
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

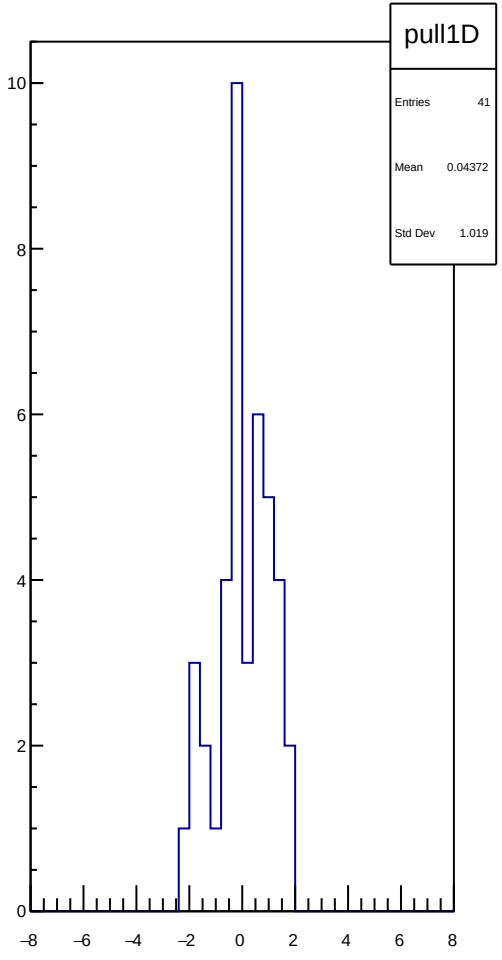

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4802 / 40
p0 0.01354 ± 1.528e−05
0.017
0.016
0.015
0.014
0.013
0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

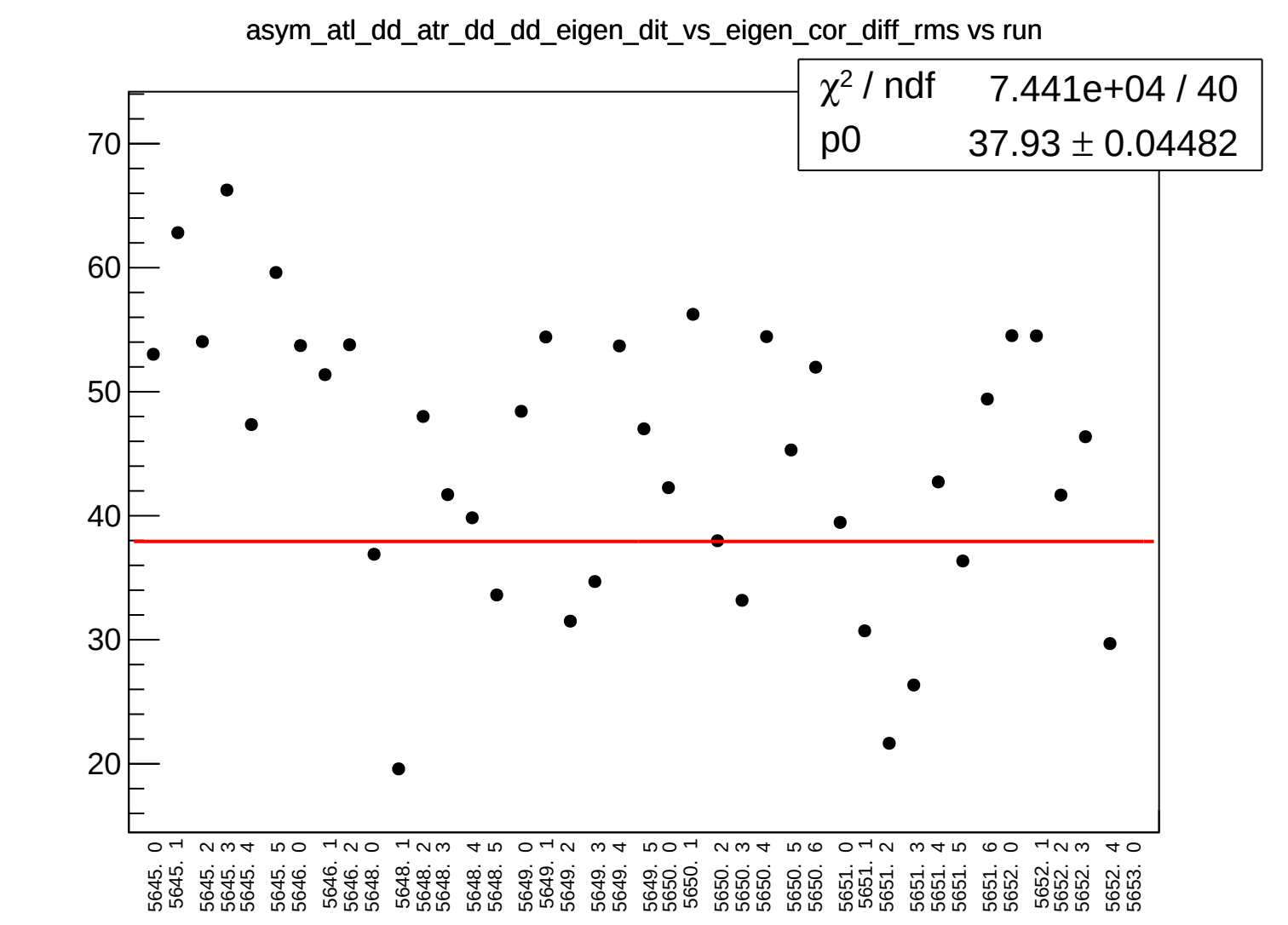

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001432 ± 0.06339
pull
Entries 41
Mean 51.46
Std Dev 6.394

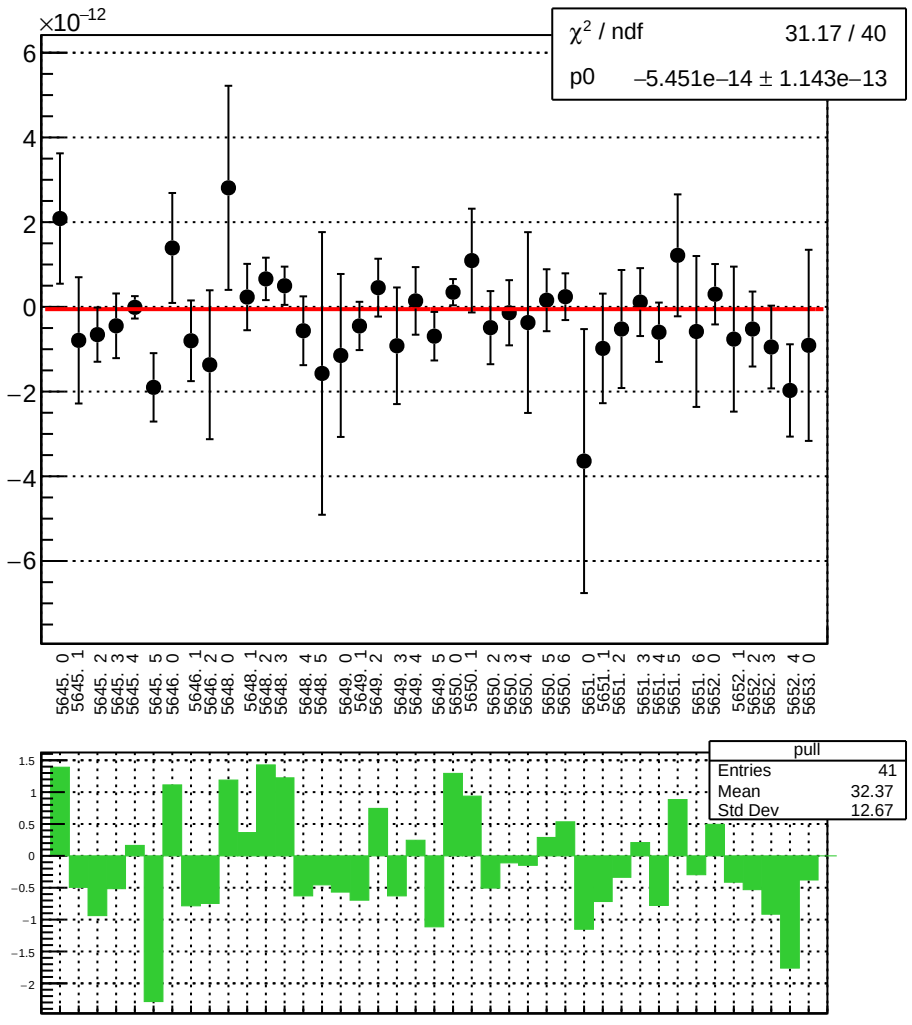

pull1D
Entries 41
Mean 0.04372
Std Dev 1.019

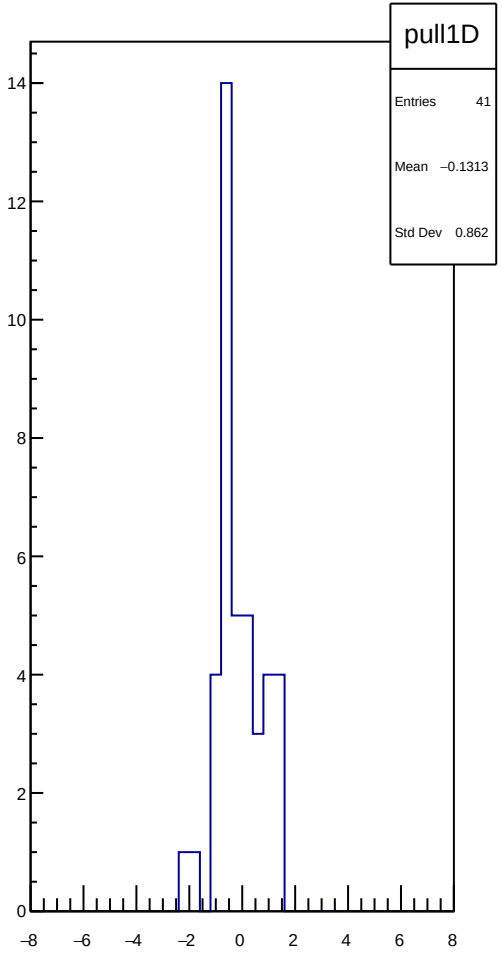

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.441e+04 / 40
p0 37.93 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

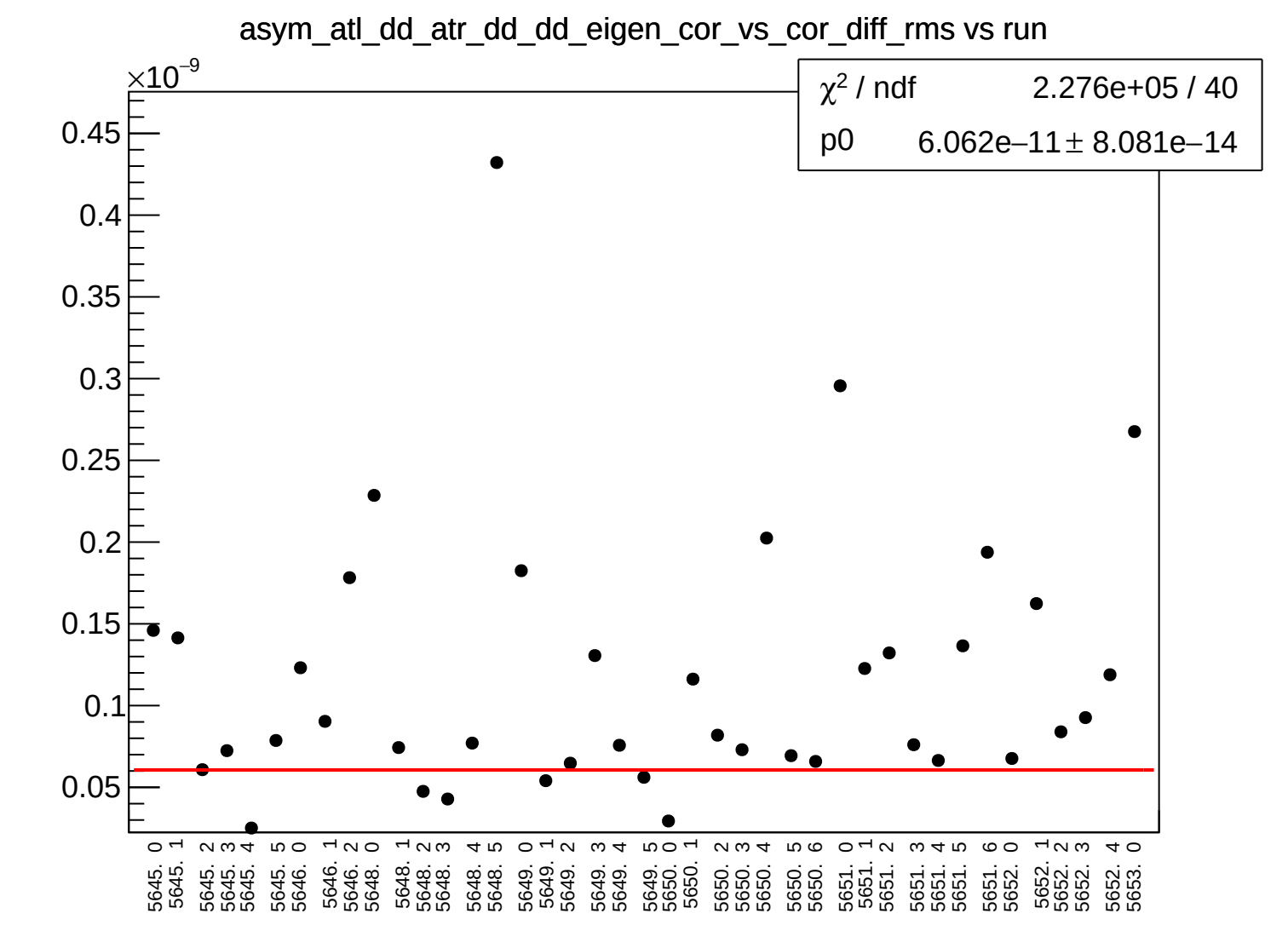

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001432 ± 0.06339
pull
Entries 41
Mean 51.46
Std Dev 6.394

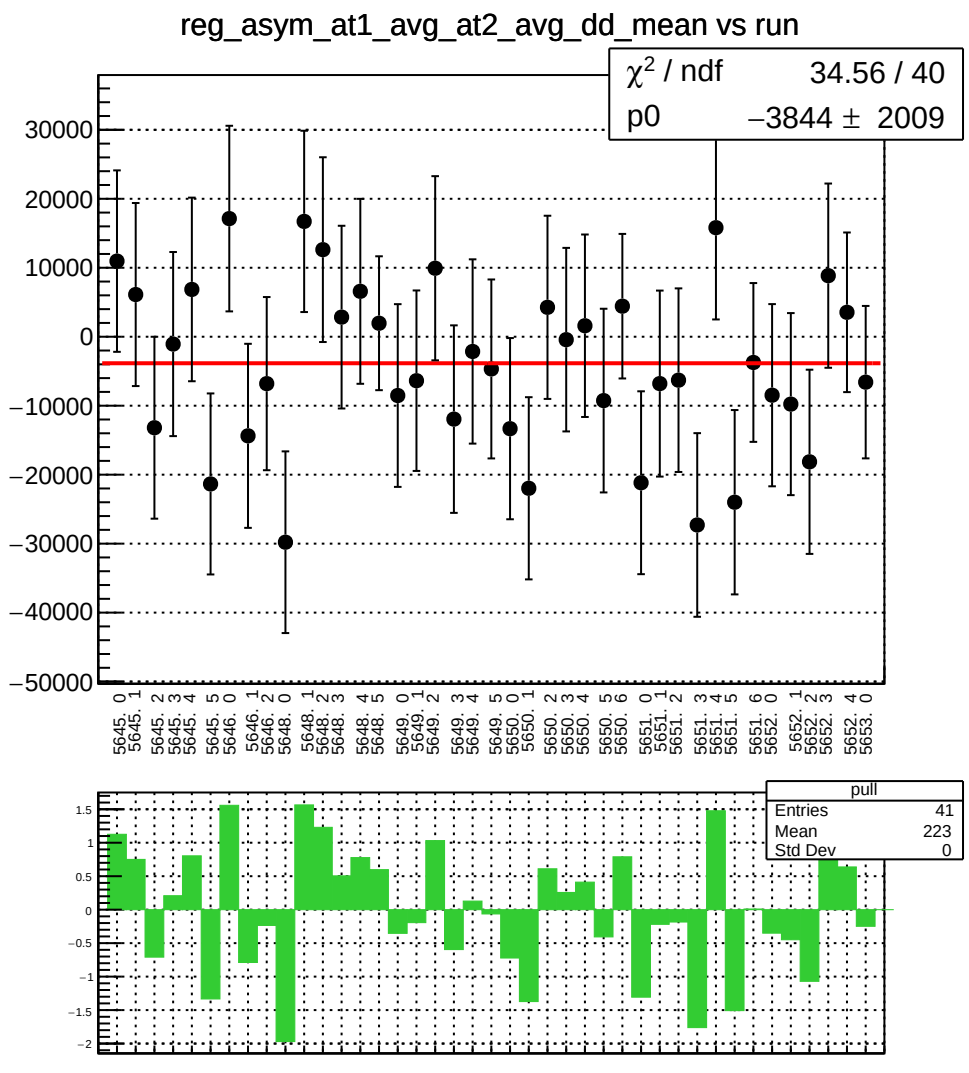

pull1D
Entries 41
Mean 0.04372
Std Dev 1.019

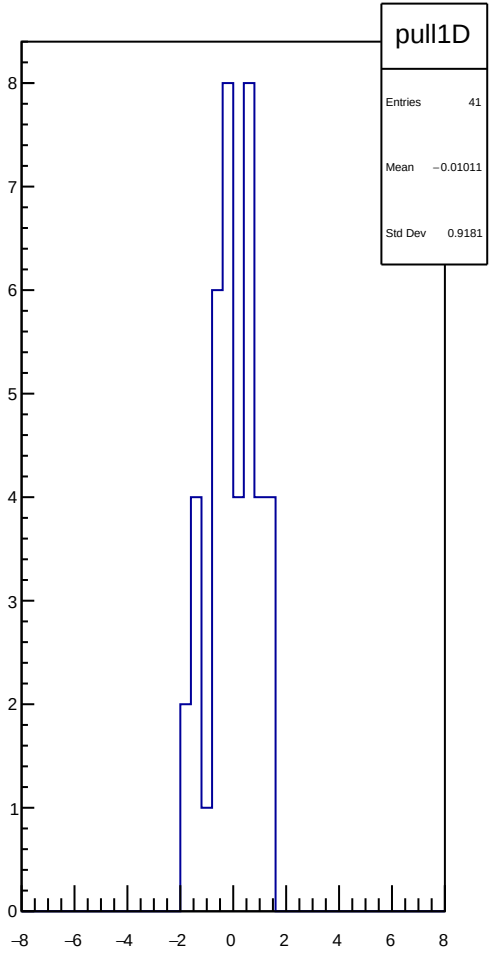

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.441e+04 / 40
p0 37.93 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

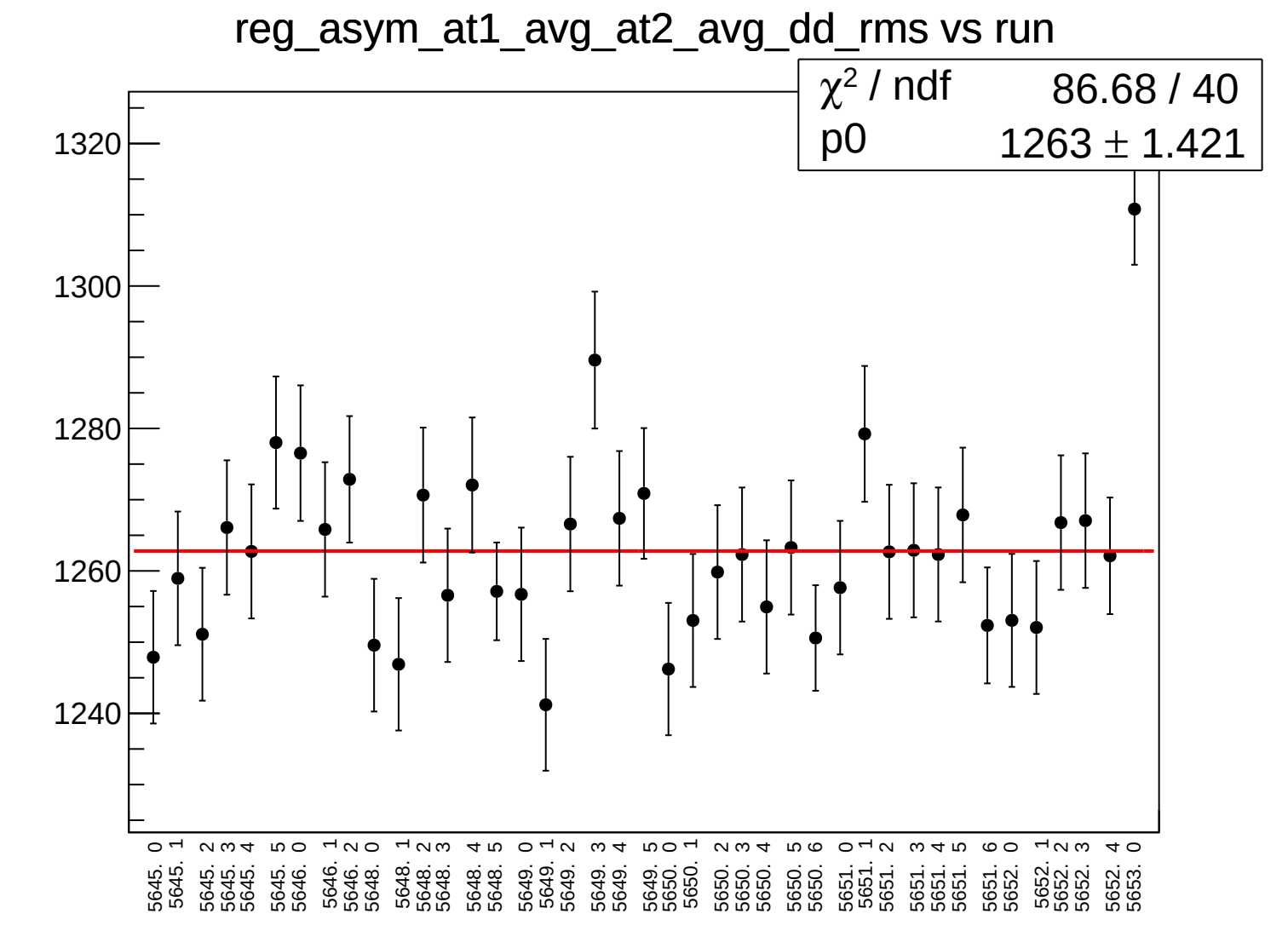

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 31.17 / 40
p0 −5.451e−14 ± 1.143e−13
pull
Entries 41
Mean 32.37
Std Dev 12.67

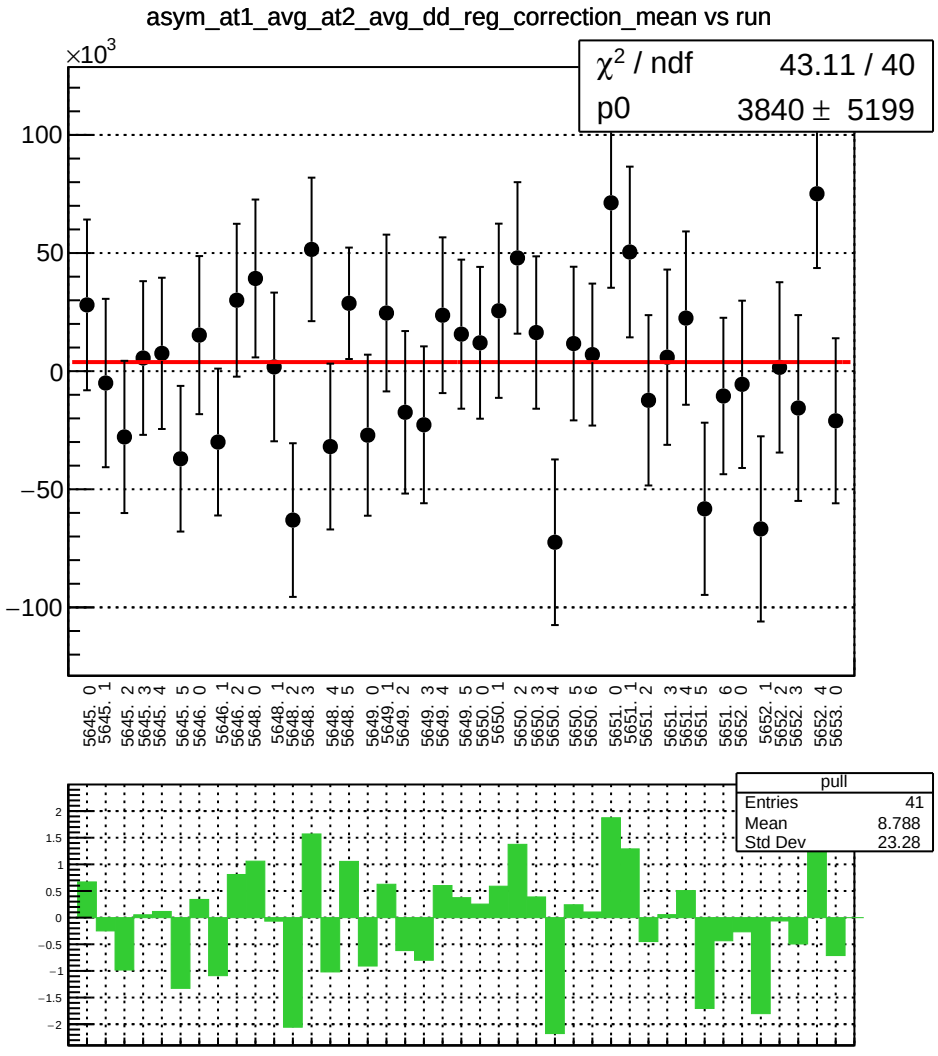

pull1D
Entries 41
Mean −0.1313
Std Dev 0.862

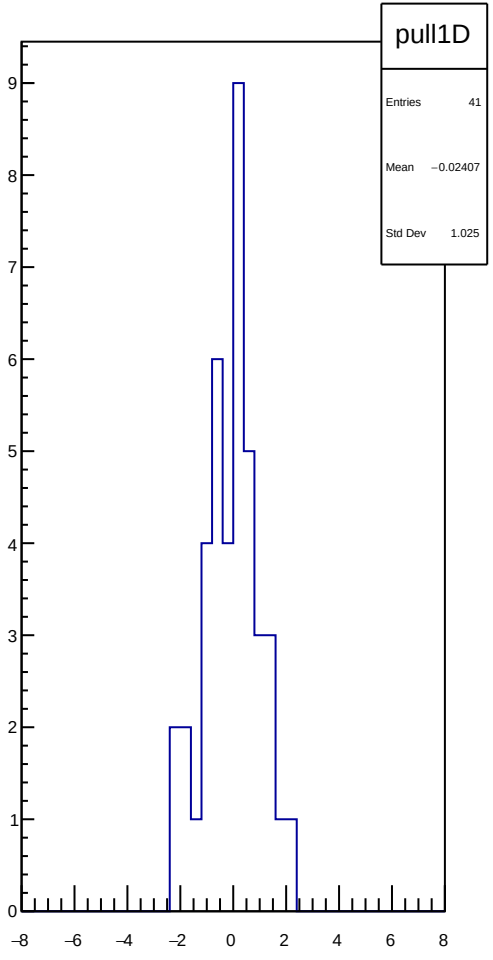

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.276e+05 / 40
p0 6.062e−11 ± 8.081e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

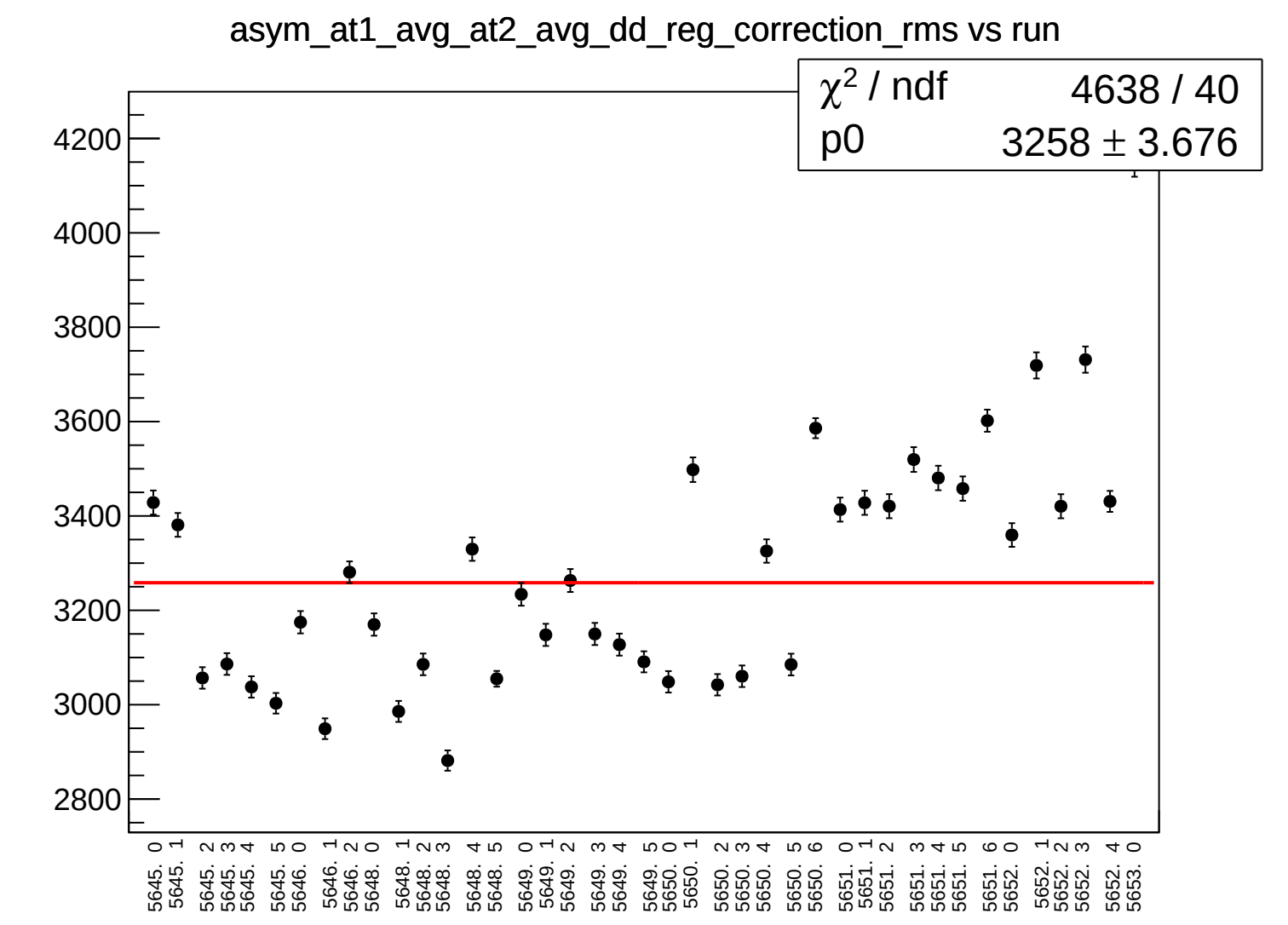

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 223
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

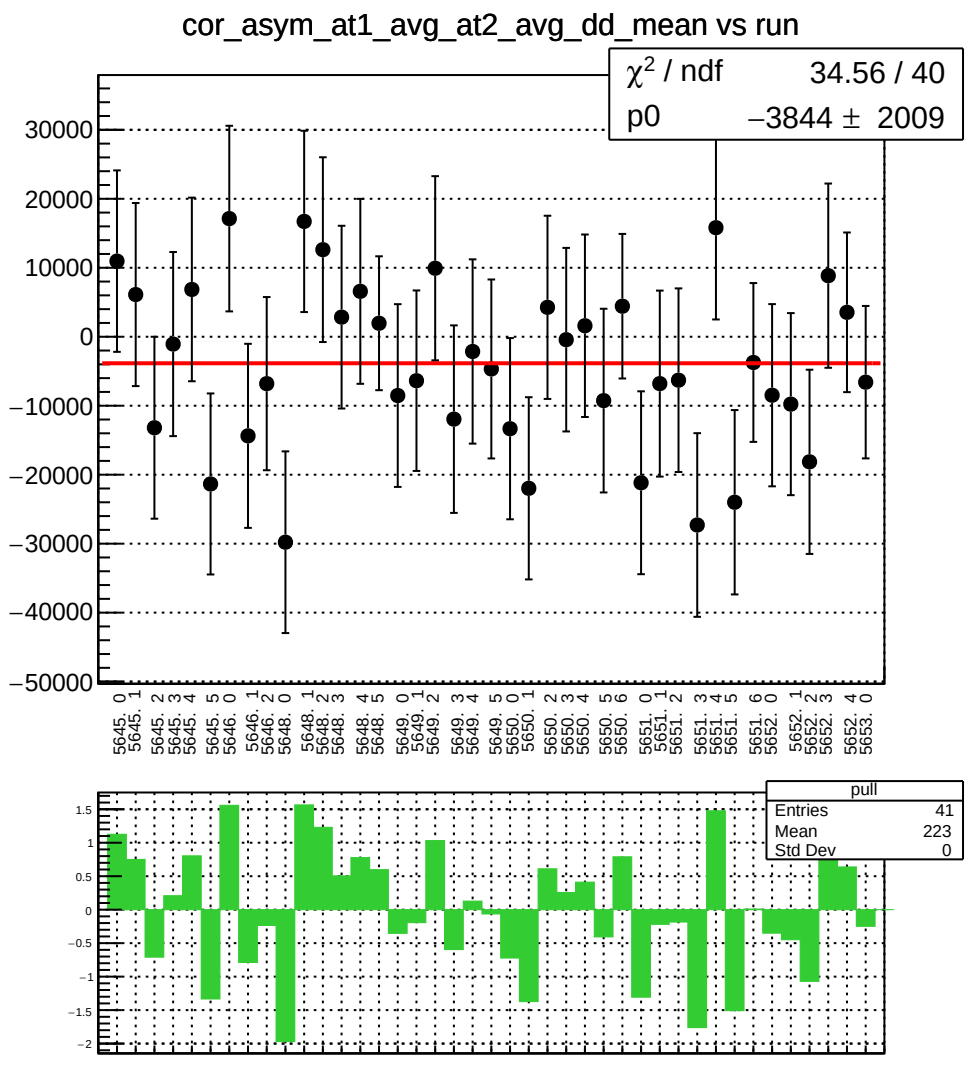

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

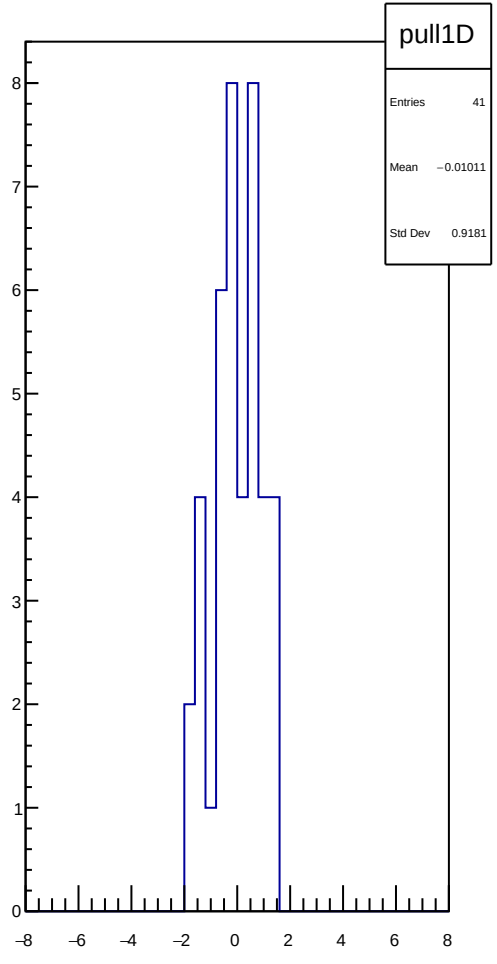

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

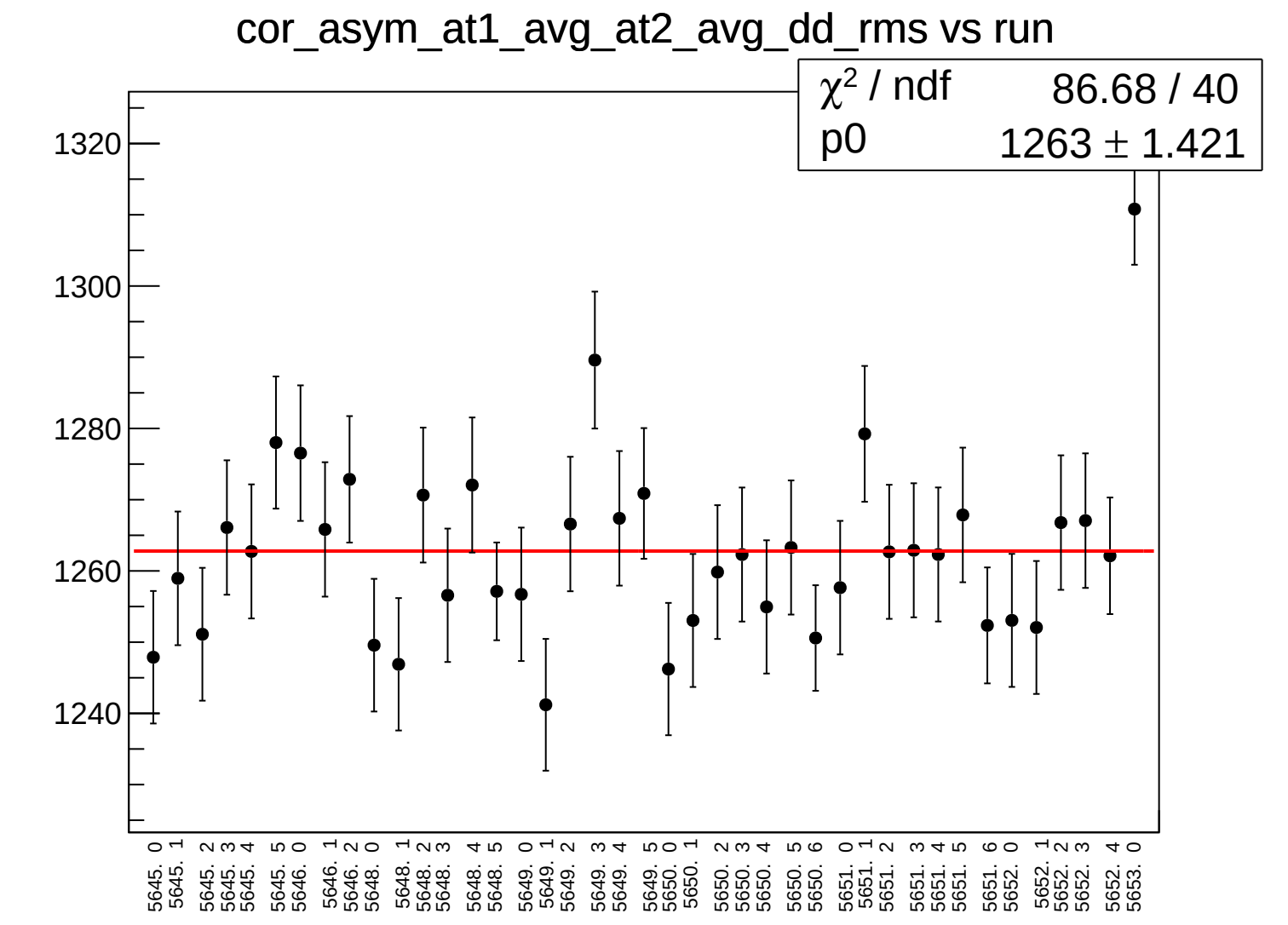

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.788
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

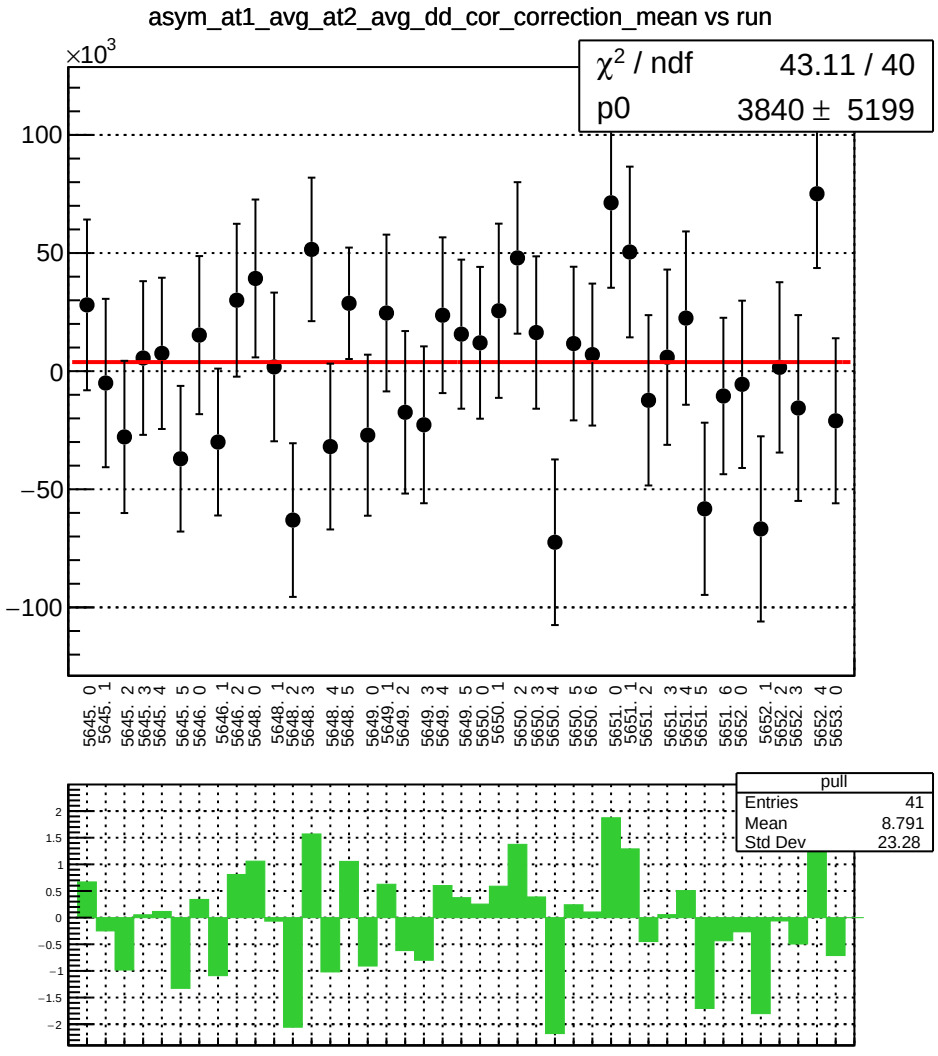

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

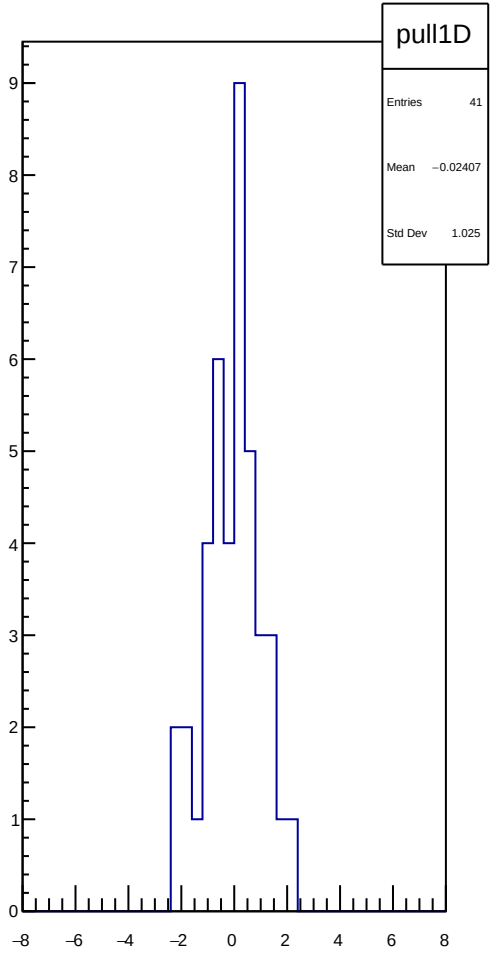

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

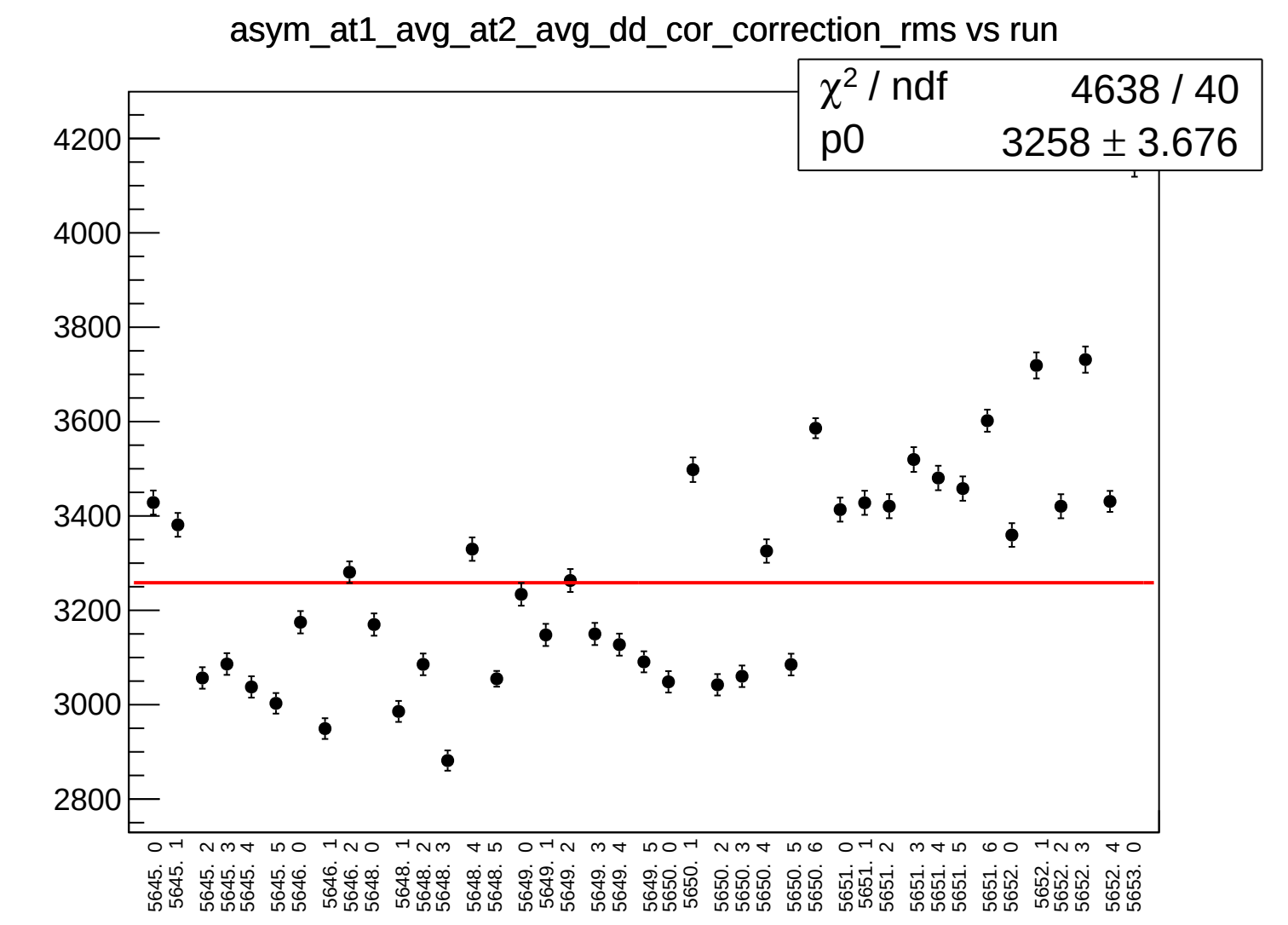

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
pull
Entries 41
Mean 223
Std Dev 0

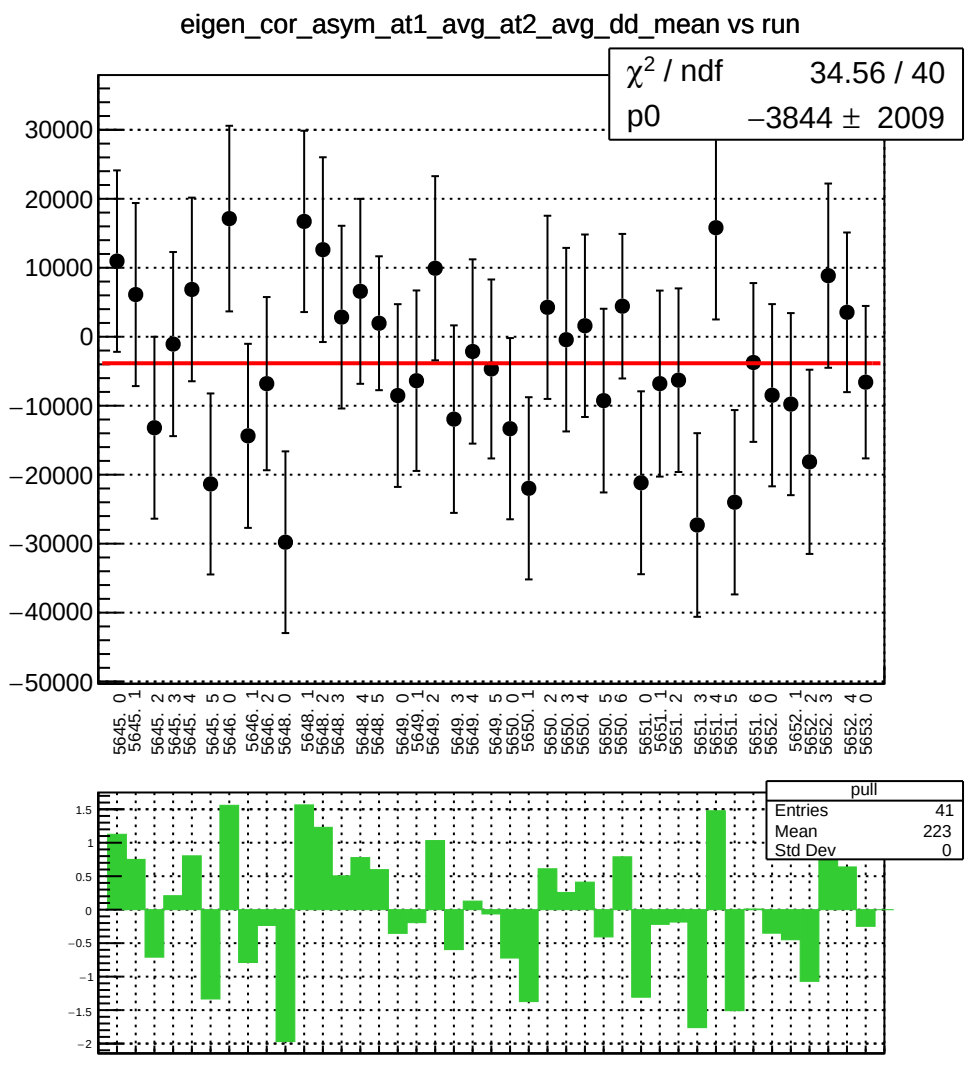

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181

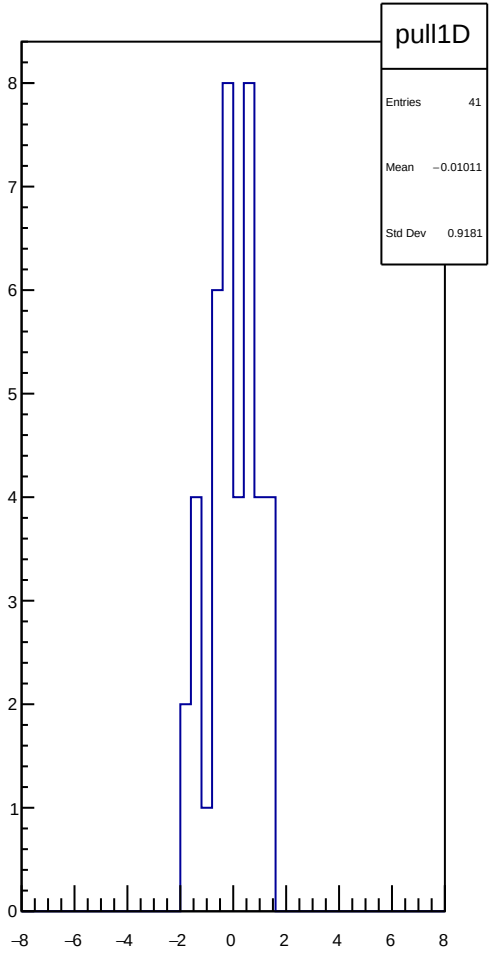

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

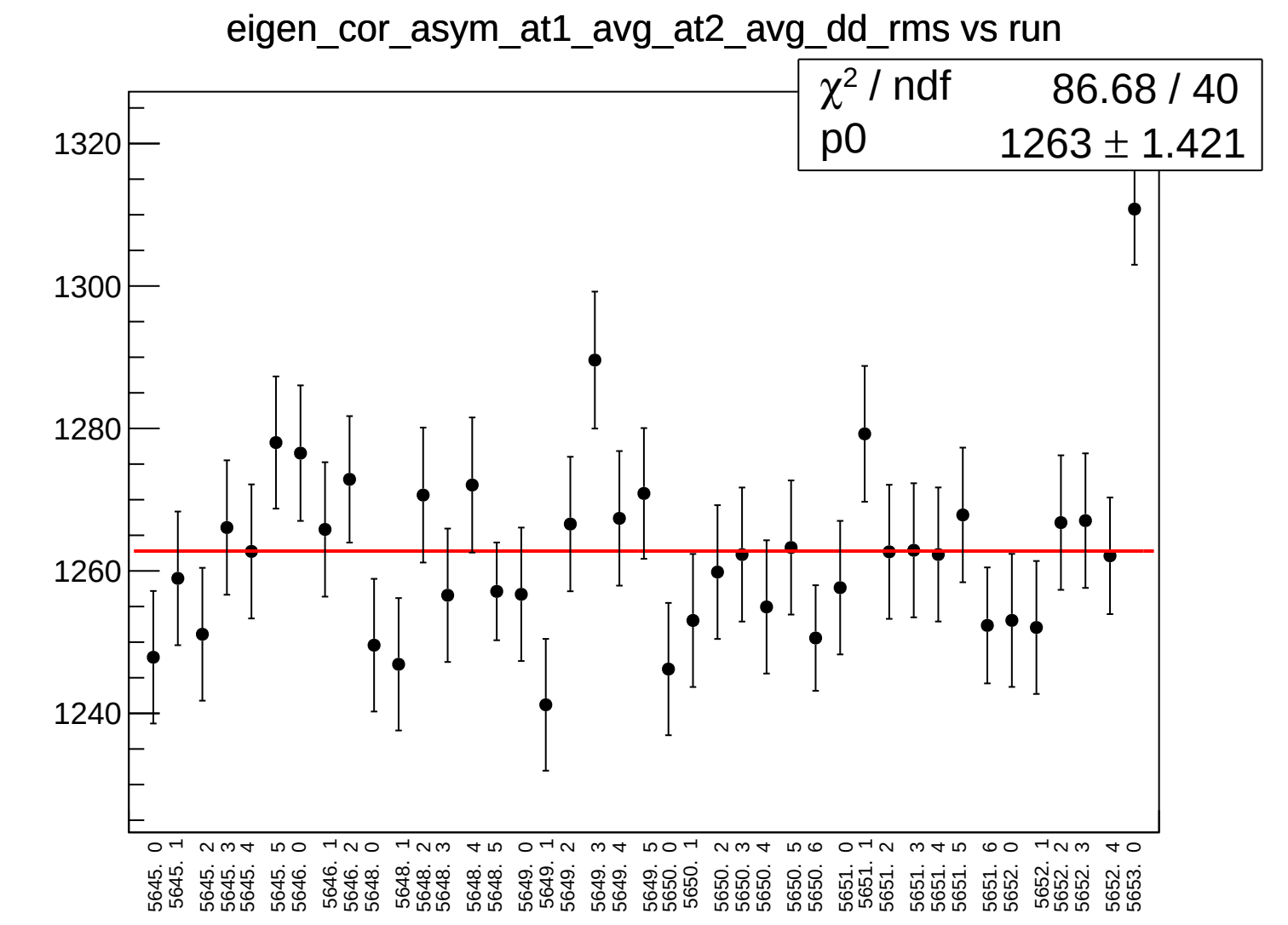

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.791
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

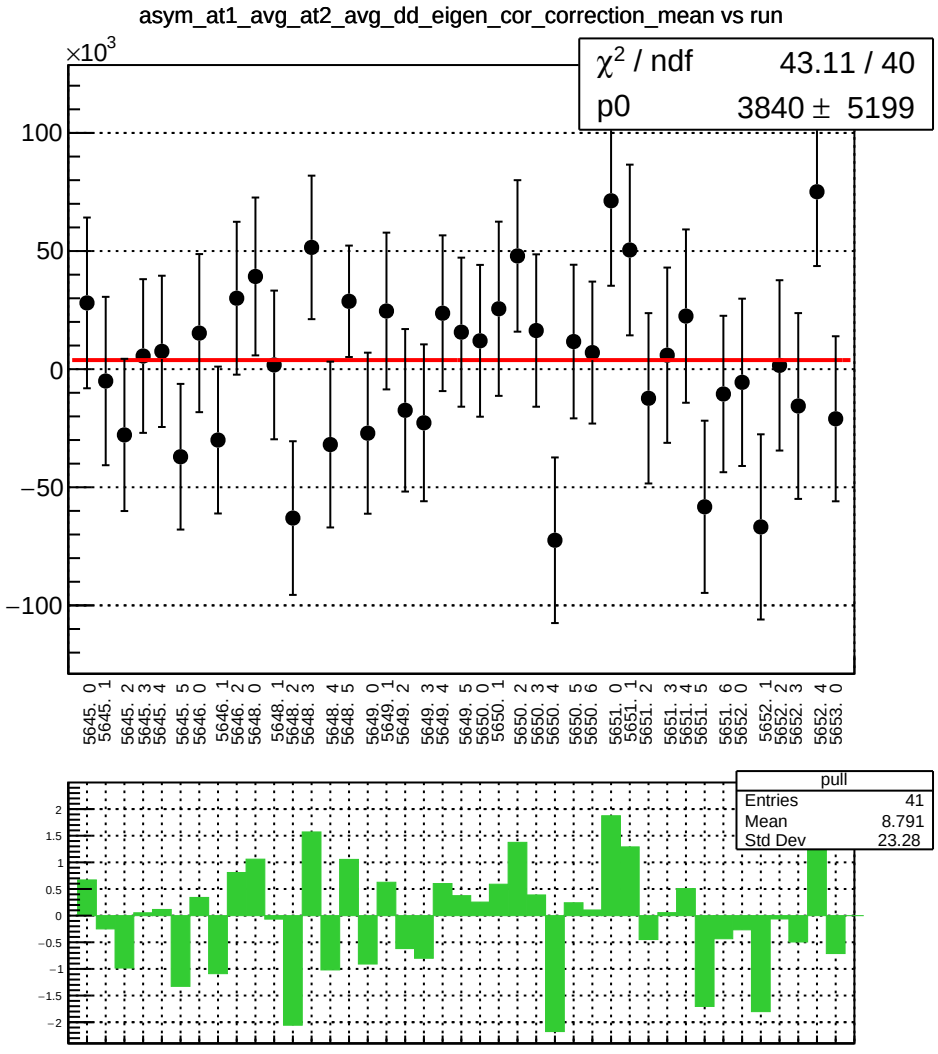

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

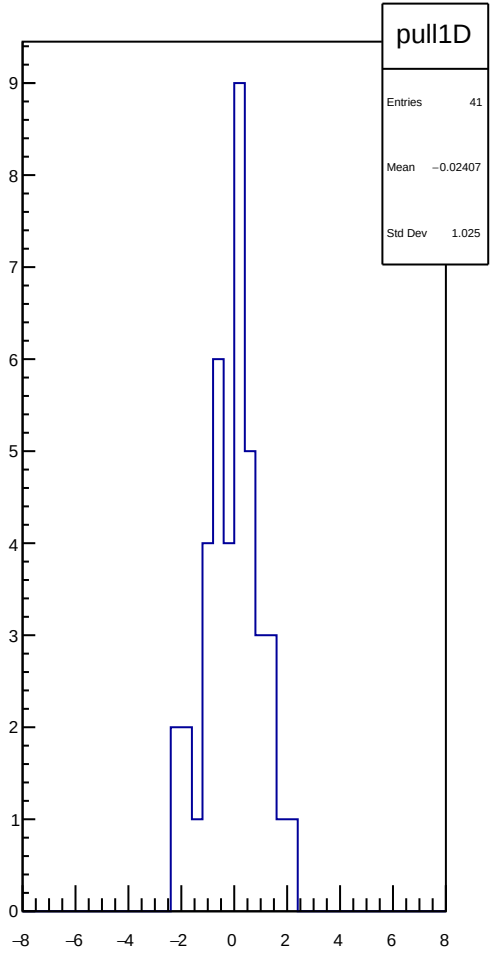

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

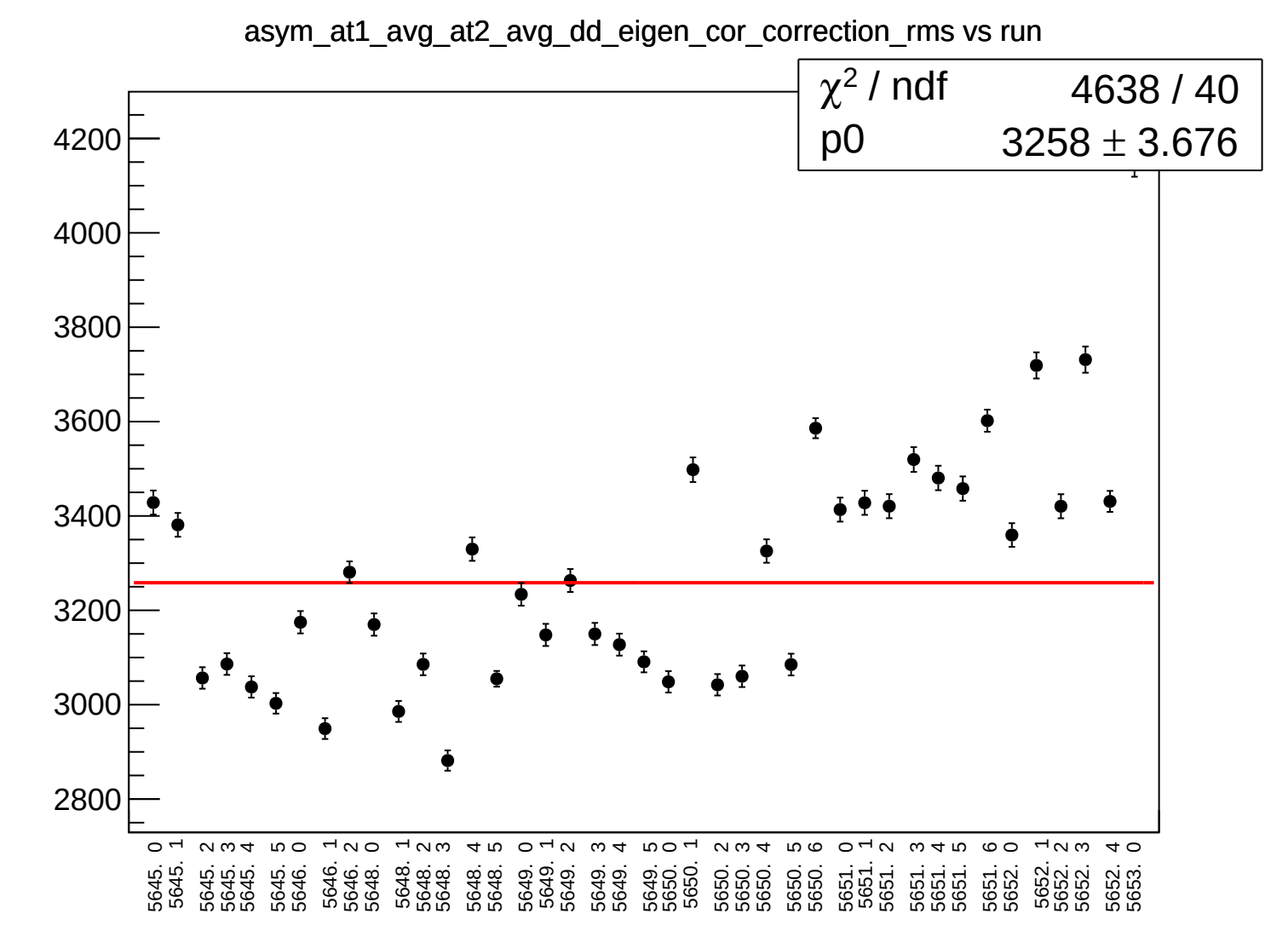

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 223
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

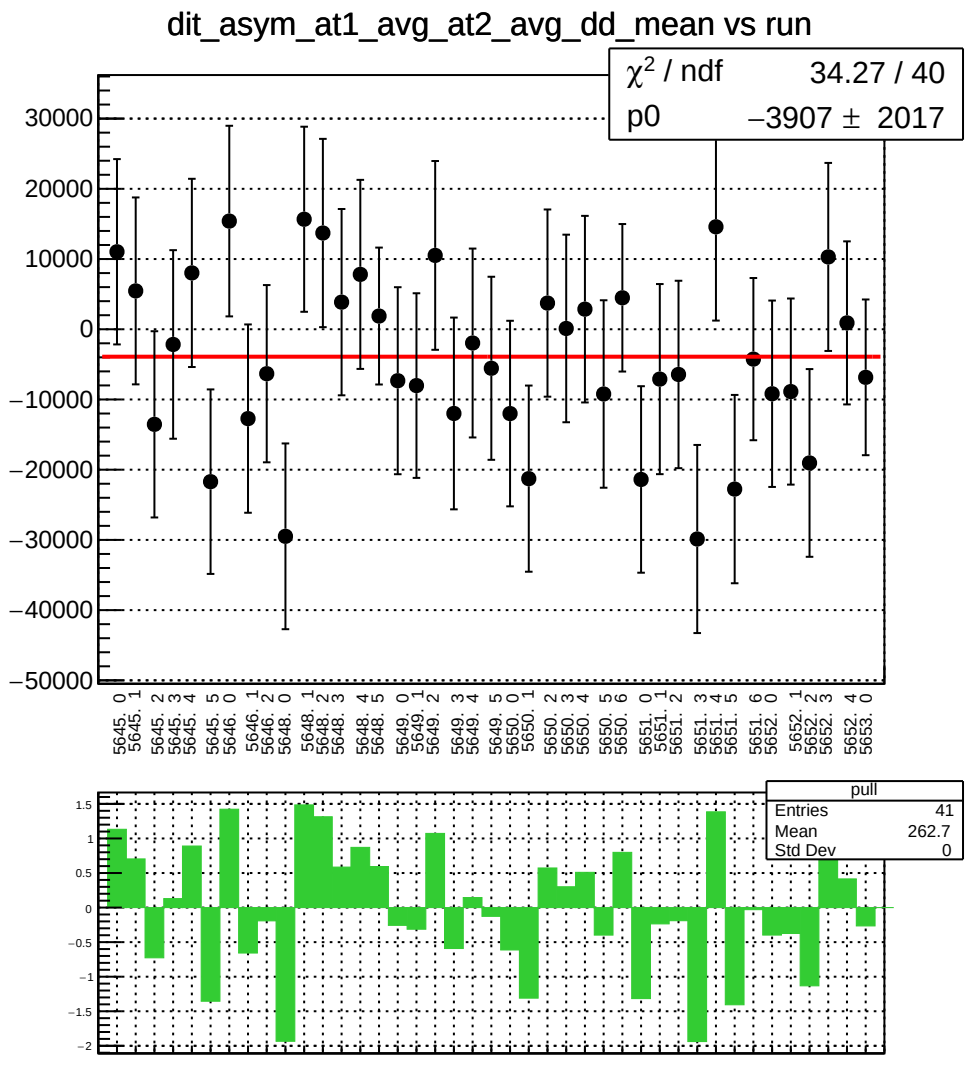

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

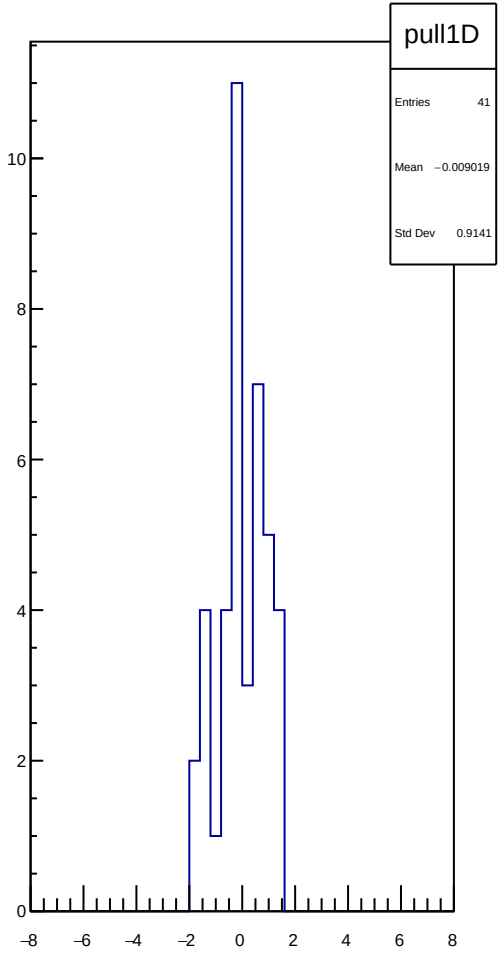

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

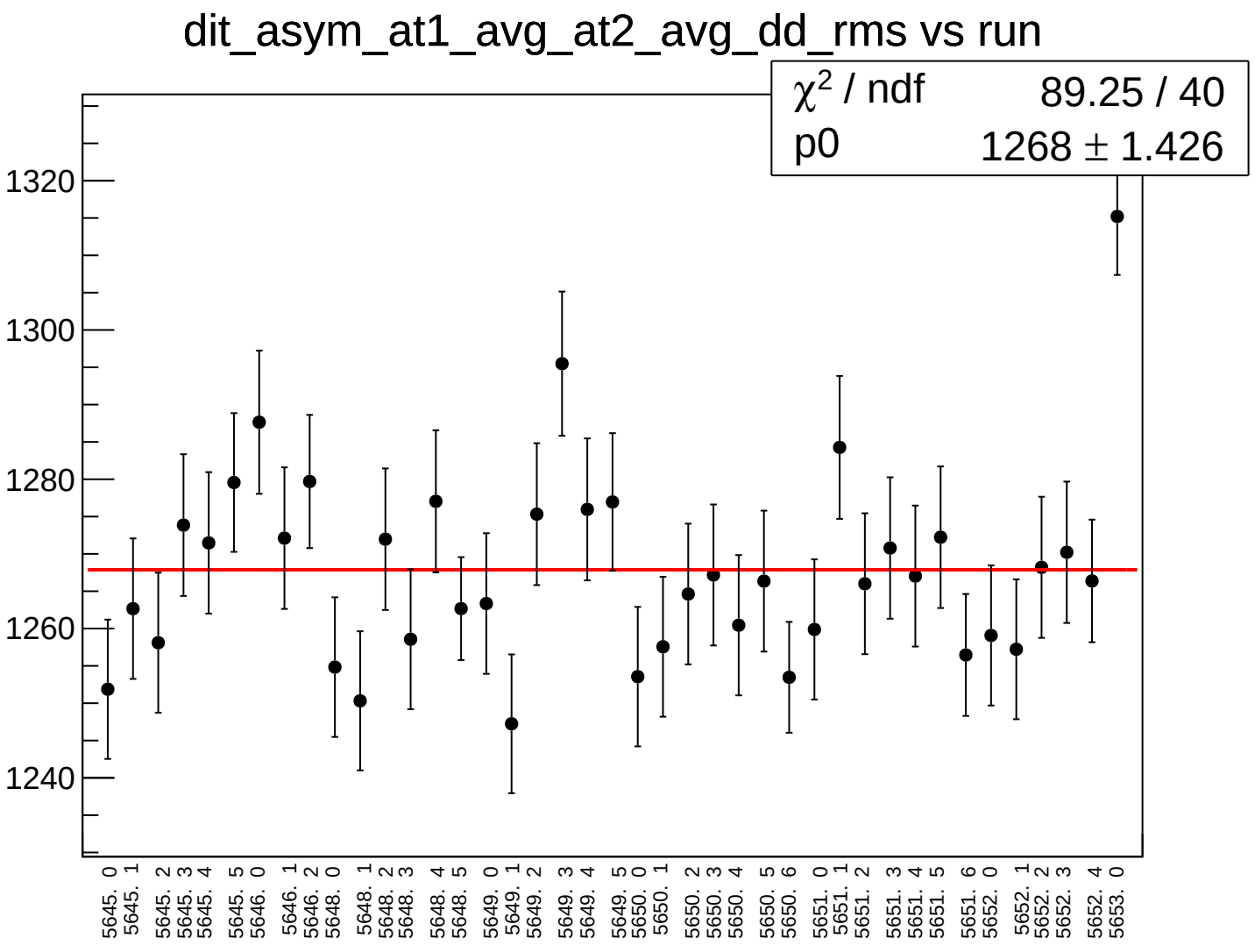

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 43.11 / 40
p0 3840 ± 5199
×10³
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.791
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

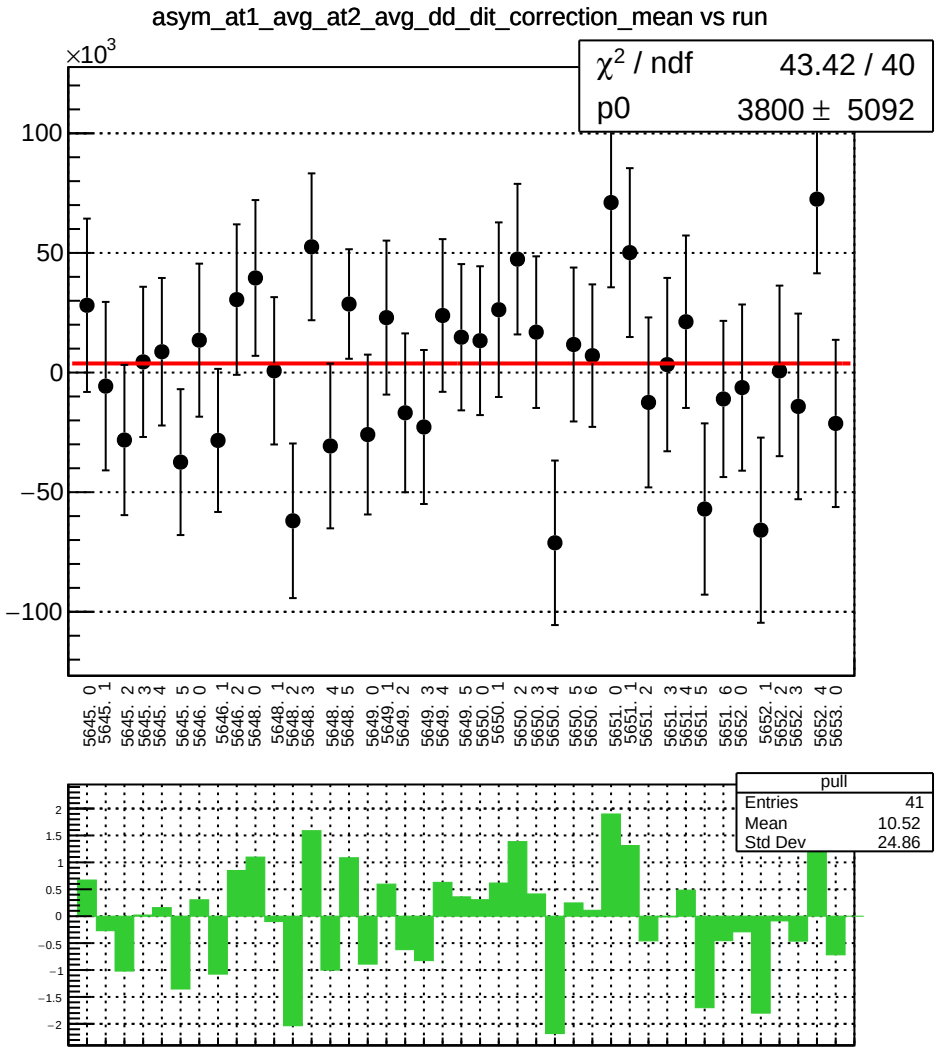

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

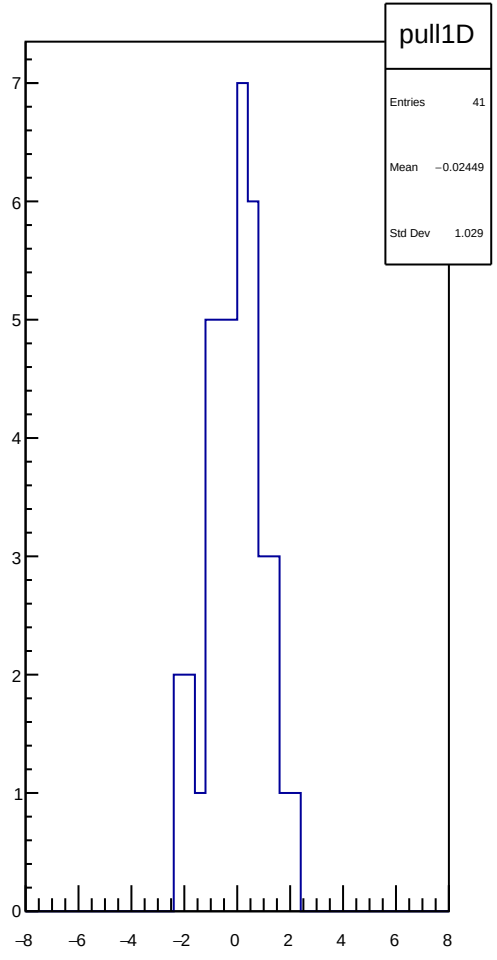

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

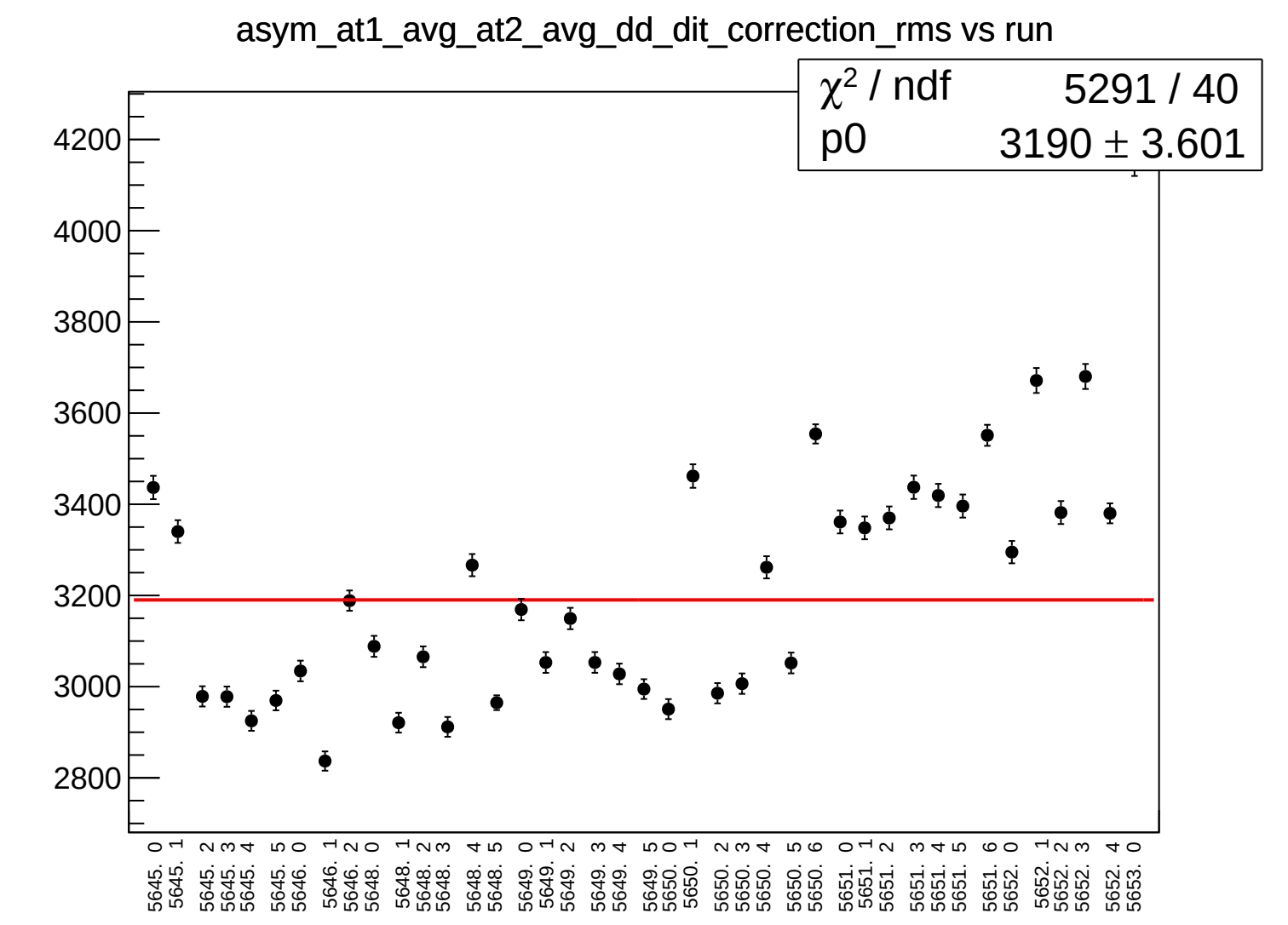

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 34.27 / 40
p0 −3907 ± 2017
pull
Entries 41
Mean 262.7
Std Dev 0

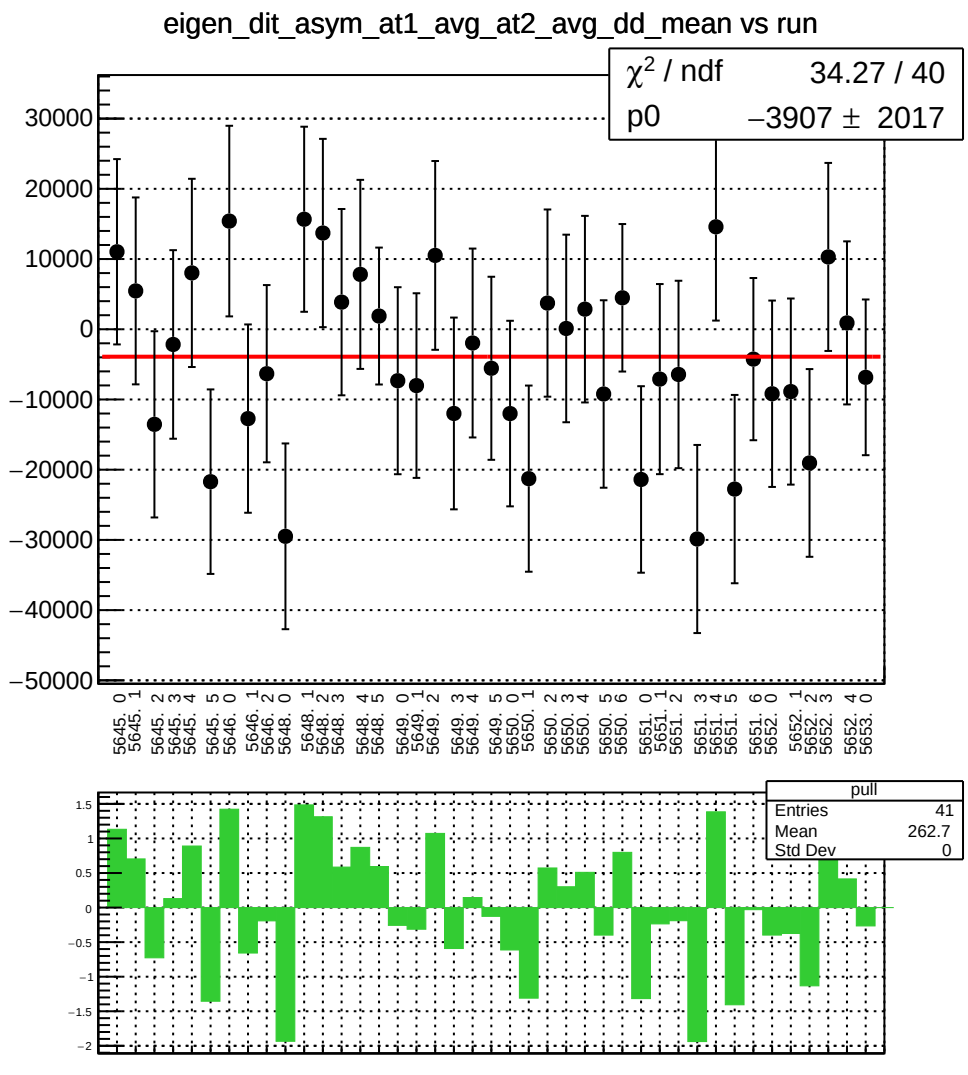

pull1D
Entries 41
Mean −0.009019
Std Dev 0.9141

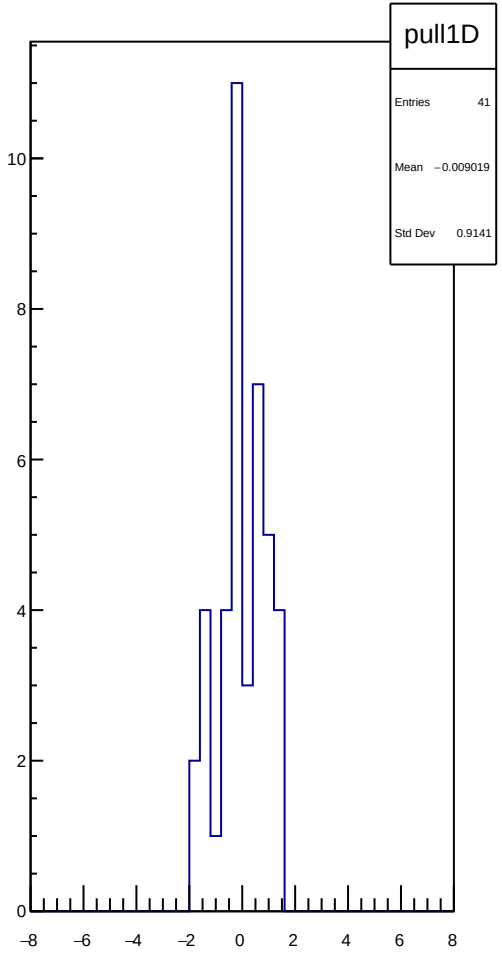

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 89.25 / 40
p0 1268 ± 1.426
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

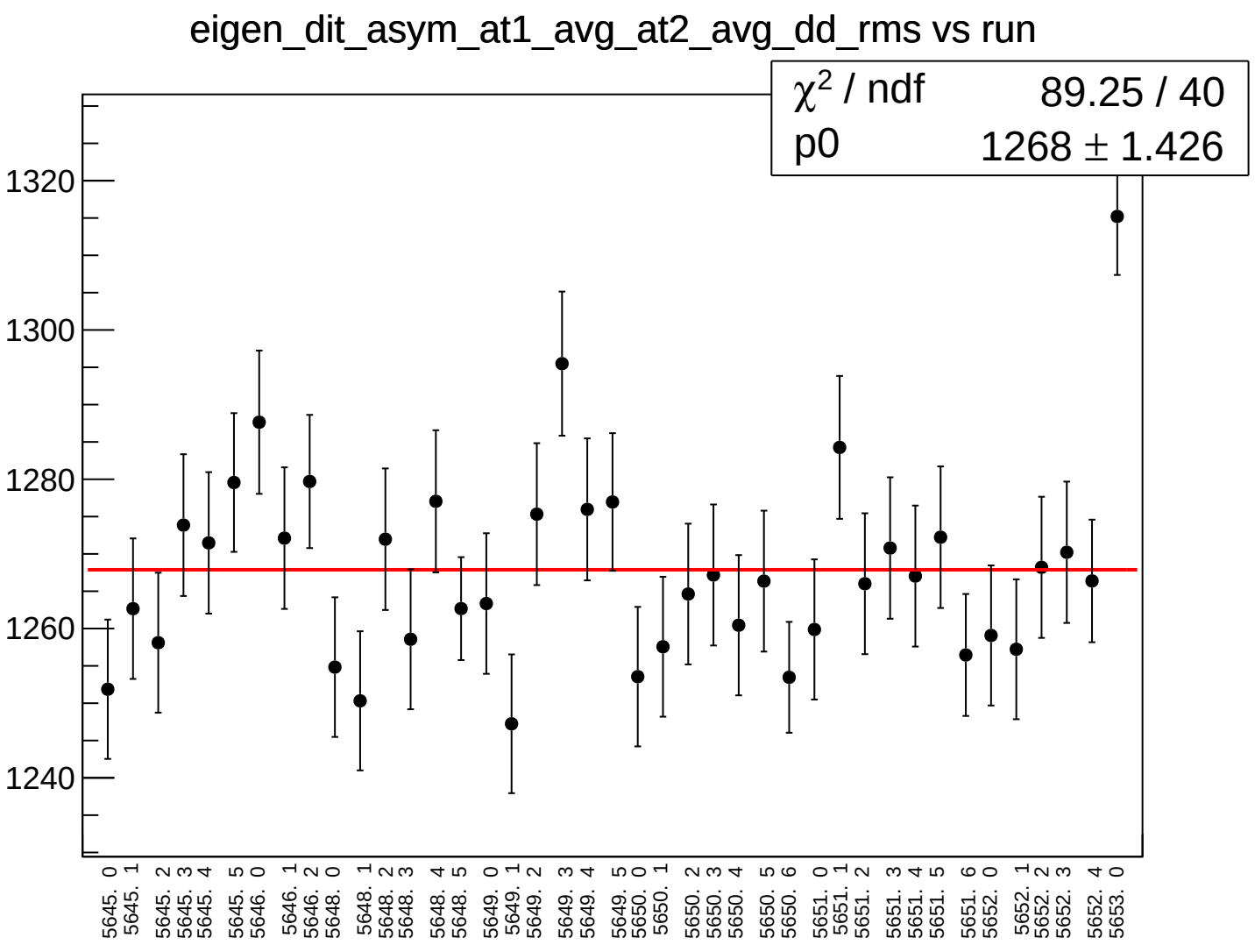

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 43.42 / 40
p0 3800 ± 5092
100
50
0
−50
−100
pull
Entries 41
Mean 10.52
Std Dev 24.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

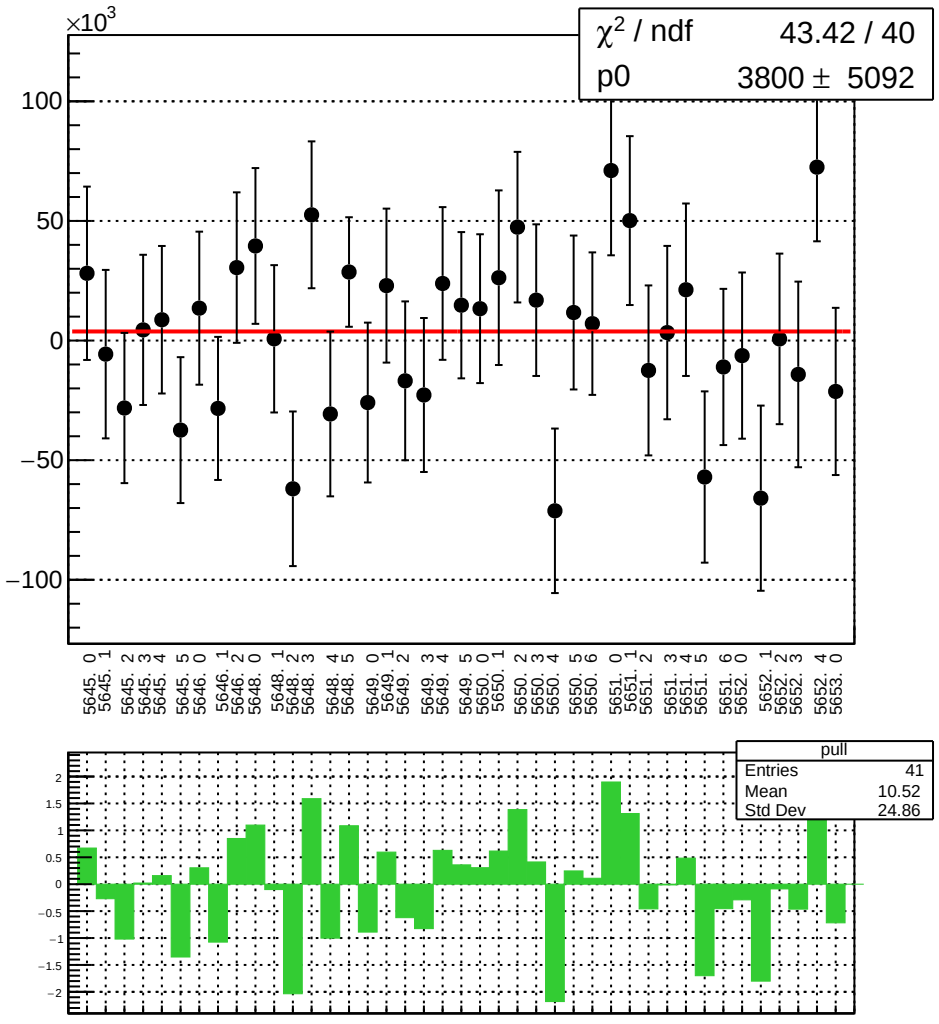

pull1D
Entries 41
Mean −0.02449
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

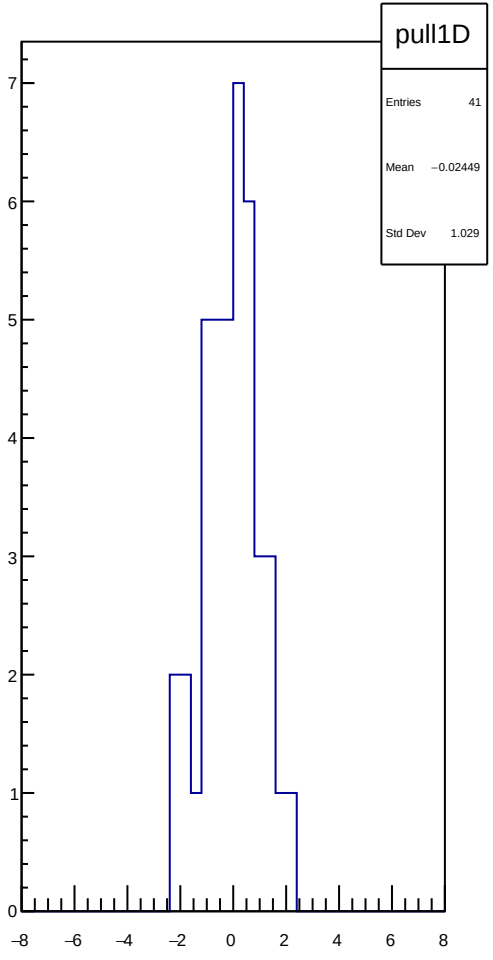

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5291 / 40
p0 3190 ± 3.601
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

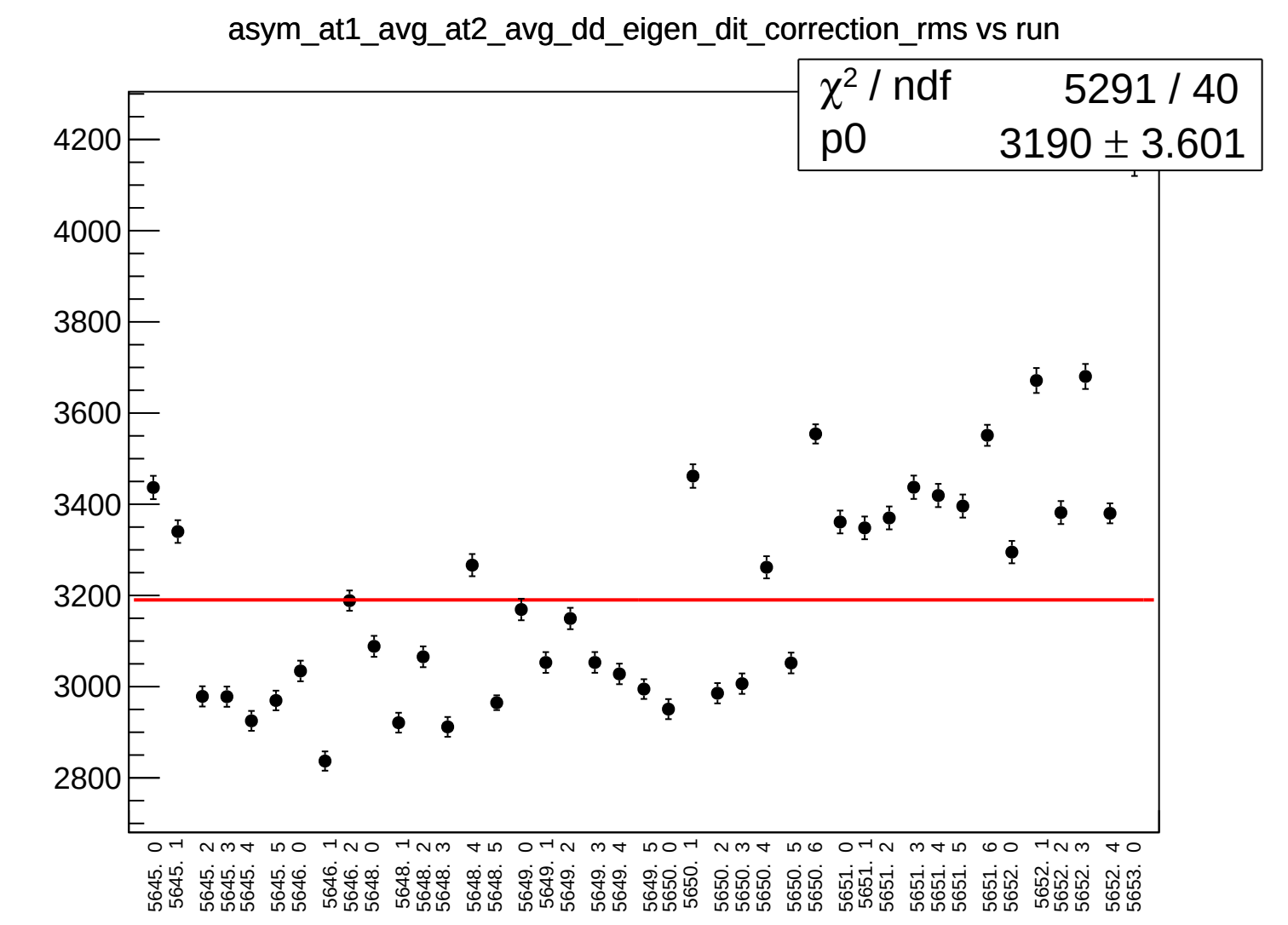

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 34.27 / 40
p0 −3907 ± 2017
pull
Entries 41
Mean 262.7
Std Dev 0

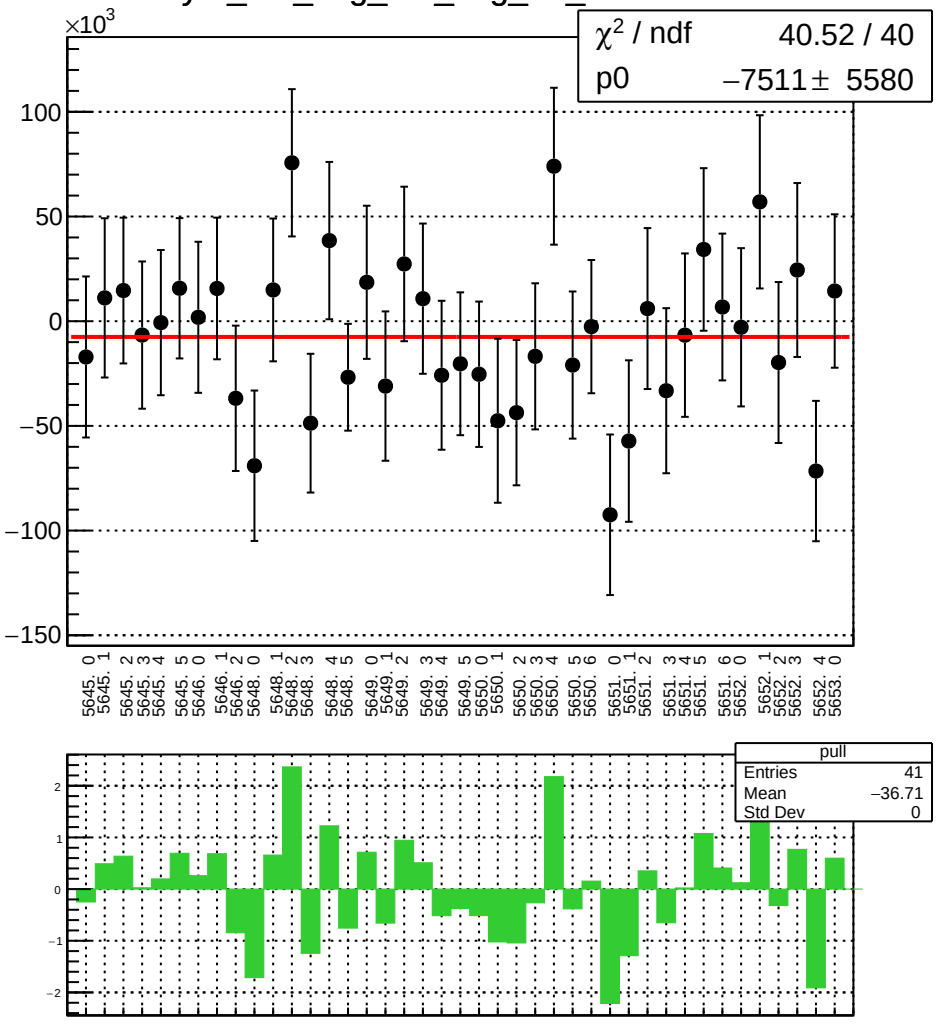

pull1D
Entries 41
Mean −0.009019
Std Dev 0.9141

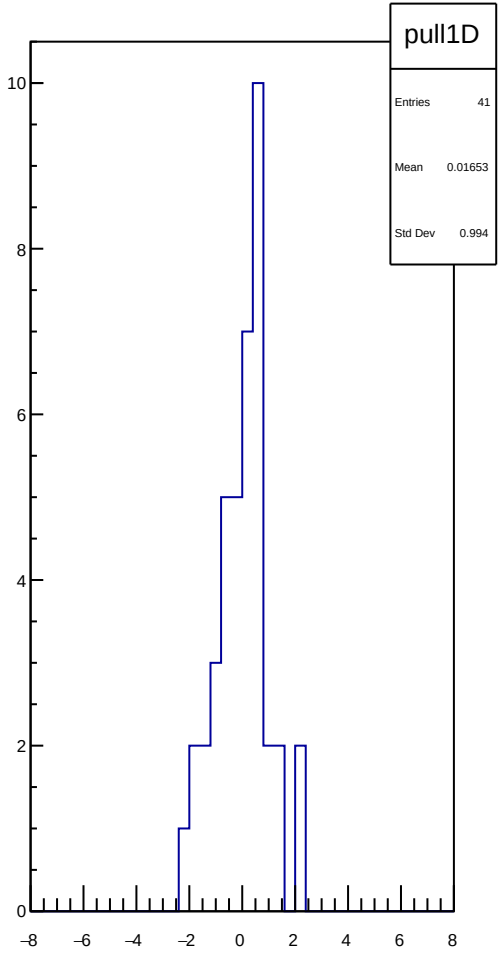

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 89.25 / 40
p0 1268 ± 1.426
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

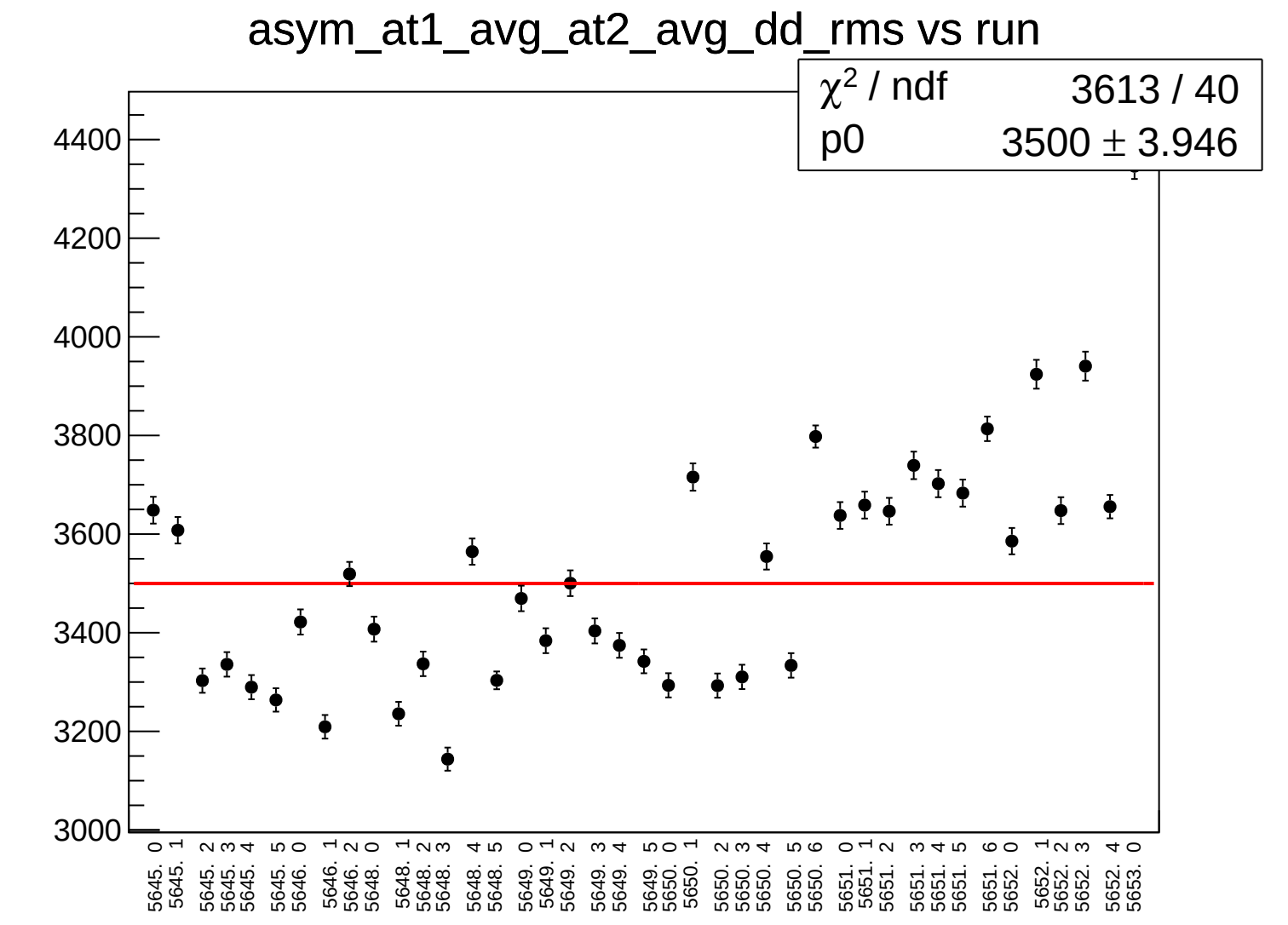

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.42 / 40
p0 3800 ± 5092
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.52
Std Dev 24.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

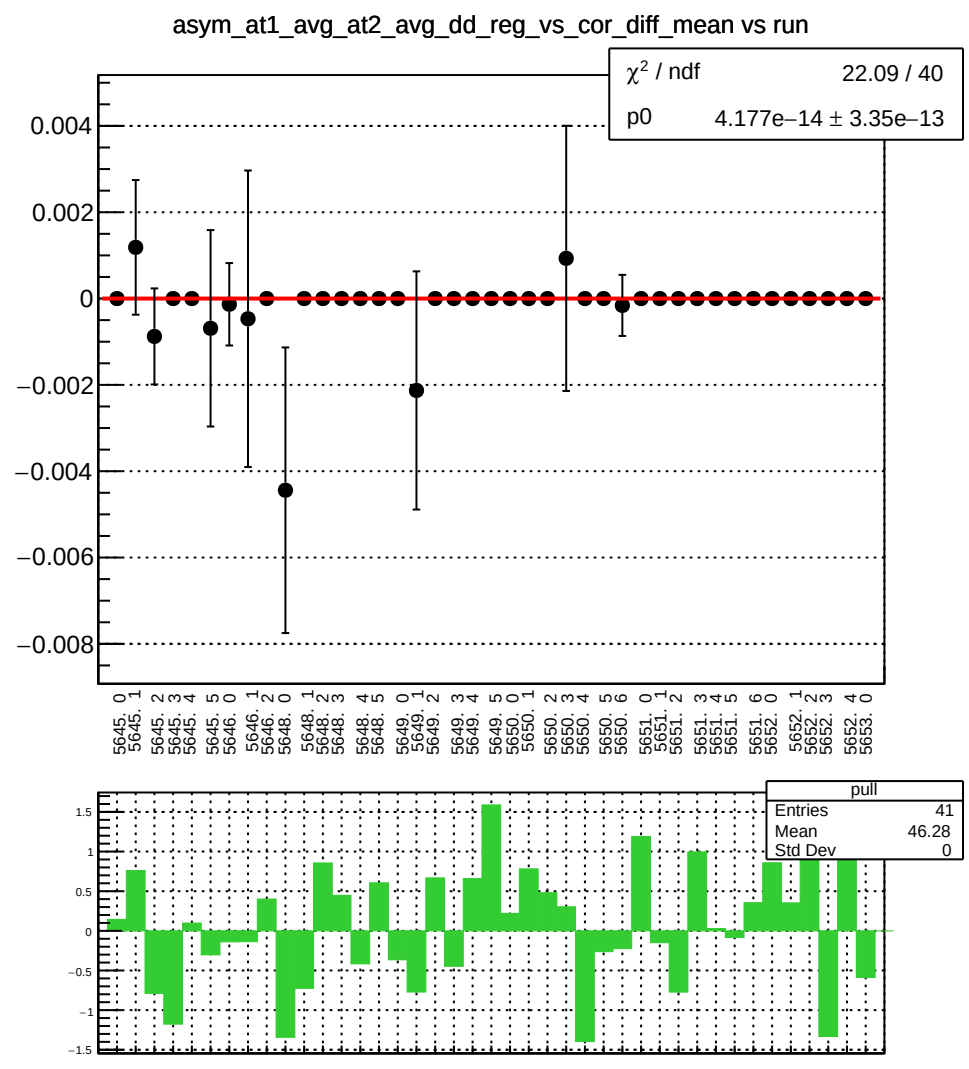

pull1D
Entries 41
Mean −0.02449
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

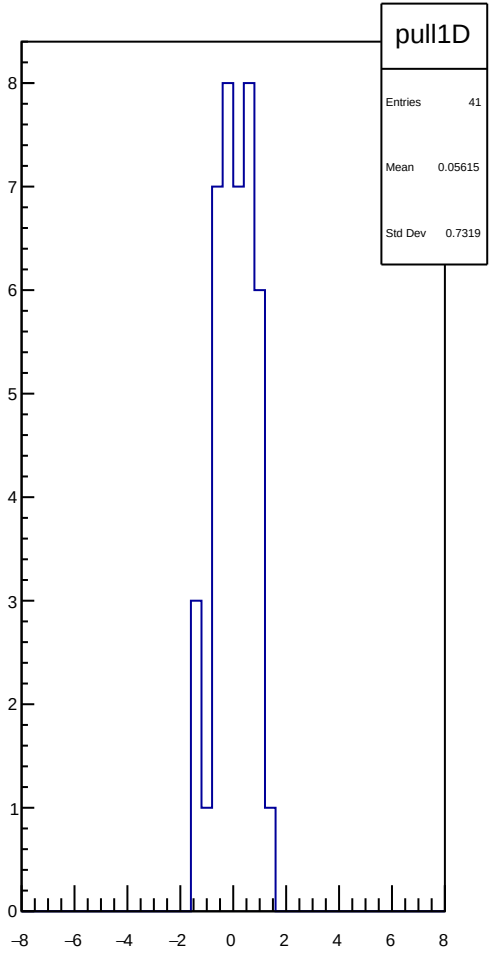

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5291 / 40
p0 3190 ± 3.601
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

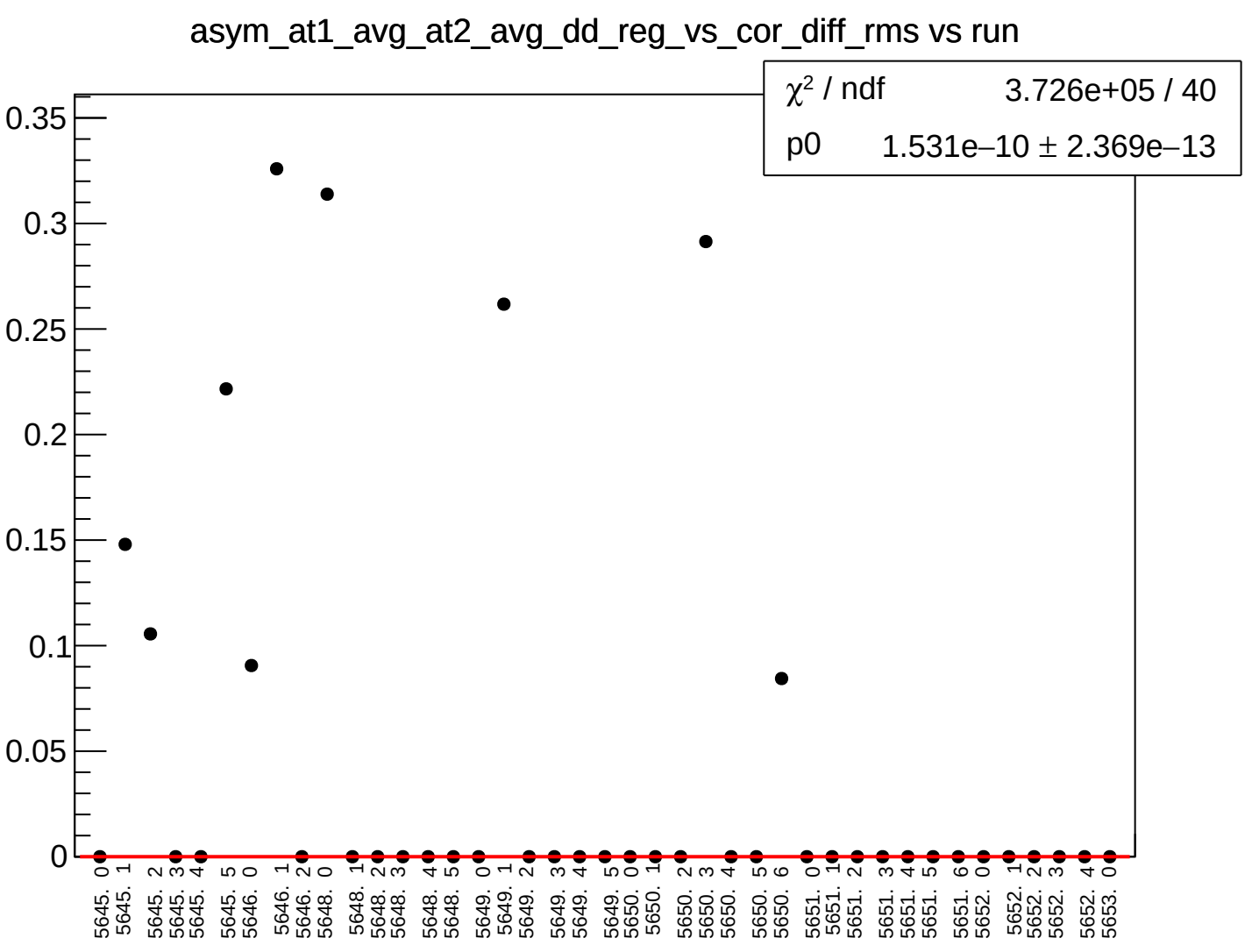

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 40.52 / 40
p0 −7511 ± 5580
100
50
0
−50
−100
−150
pull
Entries 41
Mean −36.71
Std Dev 0
2
1
0
−1
−2

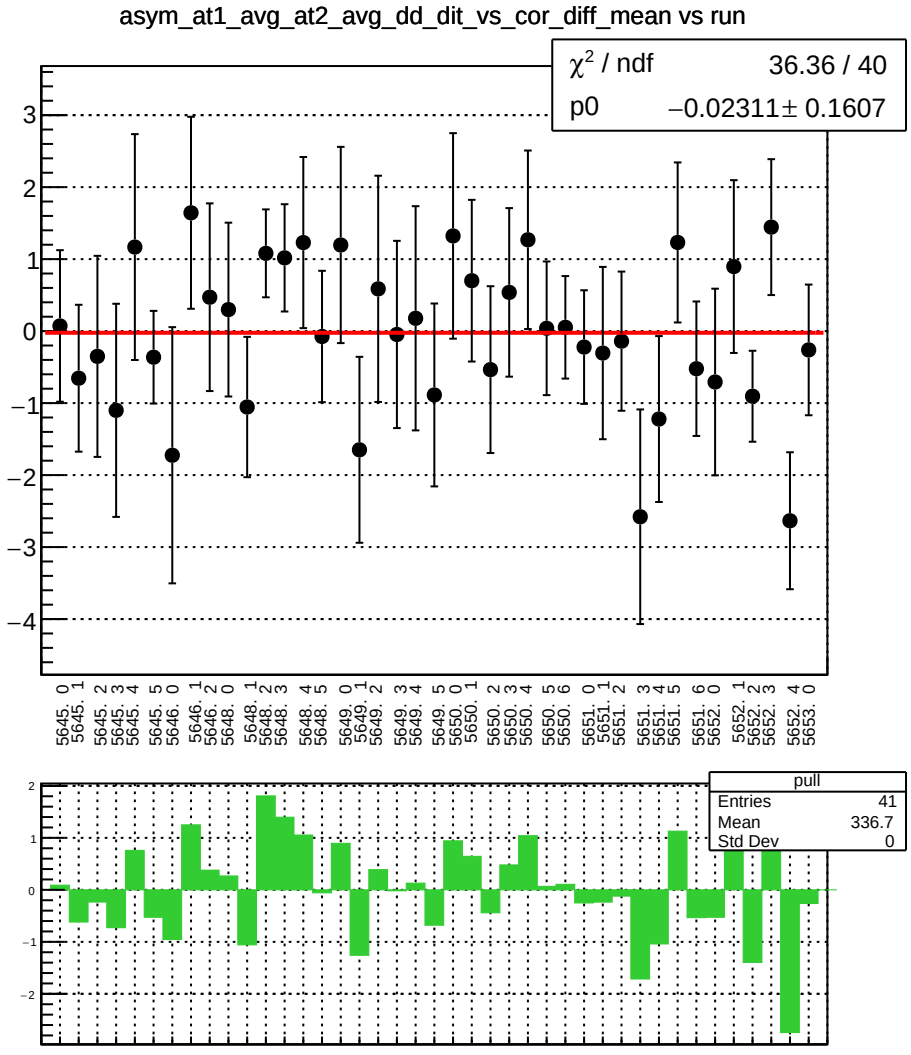

pull1D
Entries 41
Mean 0.01653
Std Dev 0.994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

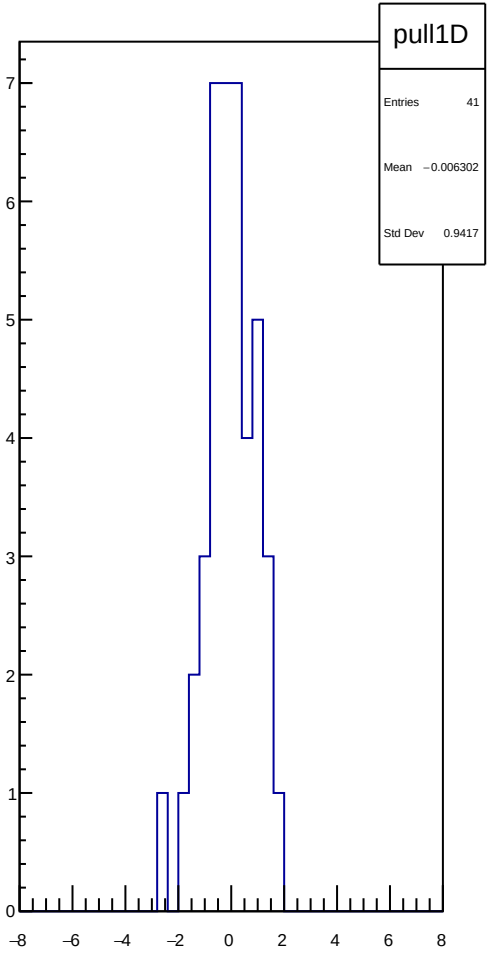

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3613 / 40
p0 3500 ± 3.946
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

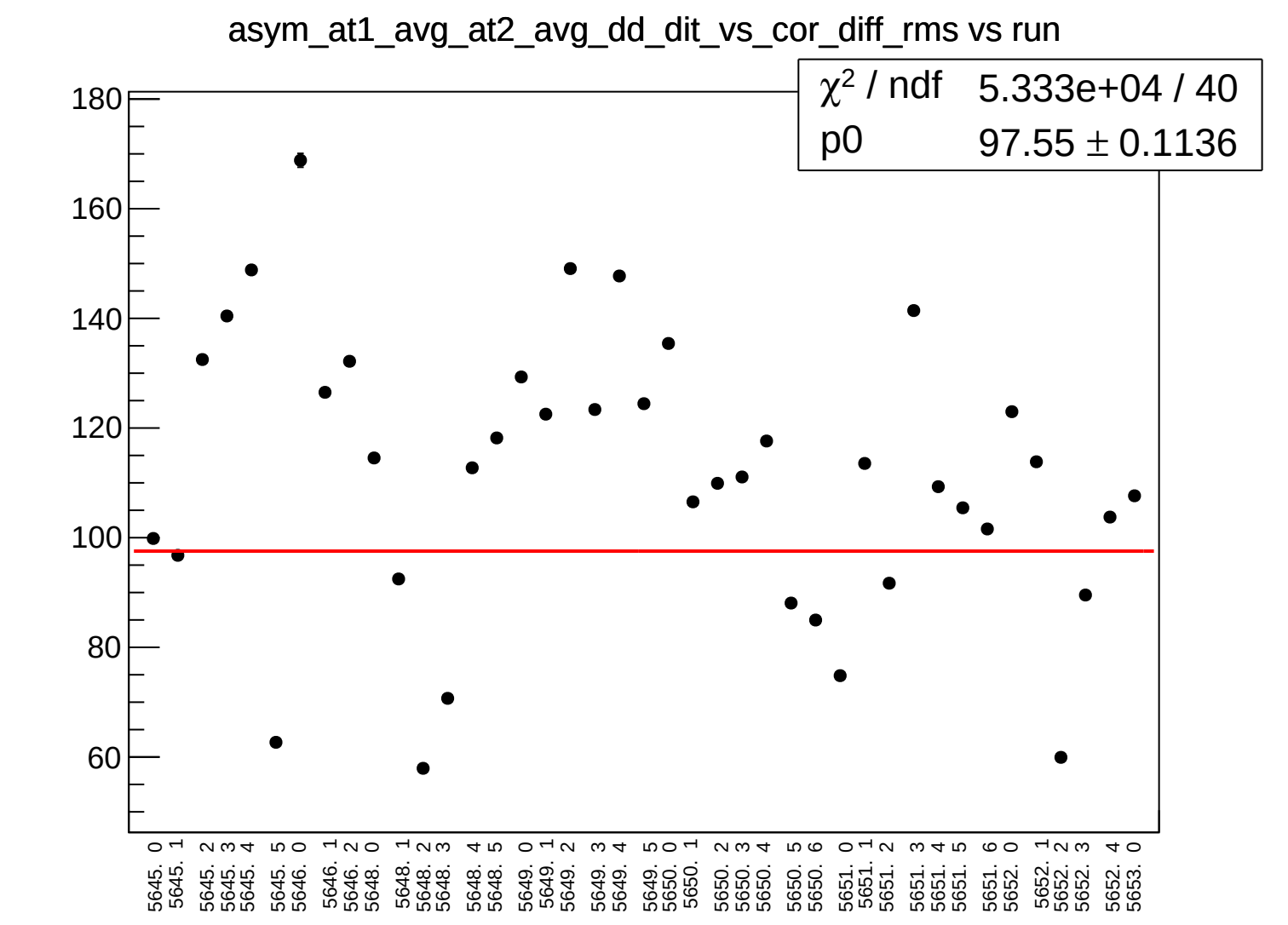

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.09 / 40
p0 4.177e−14 ± 3.35e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 46.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

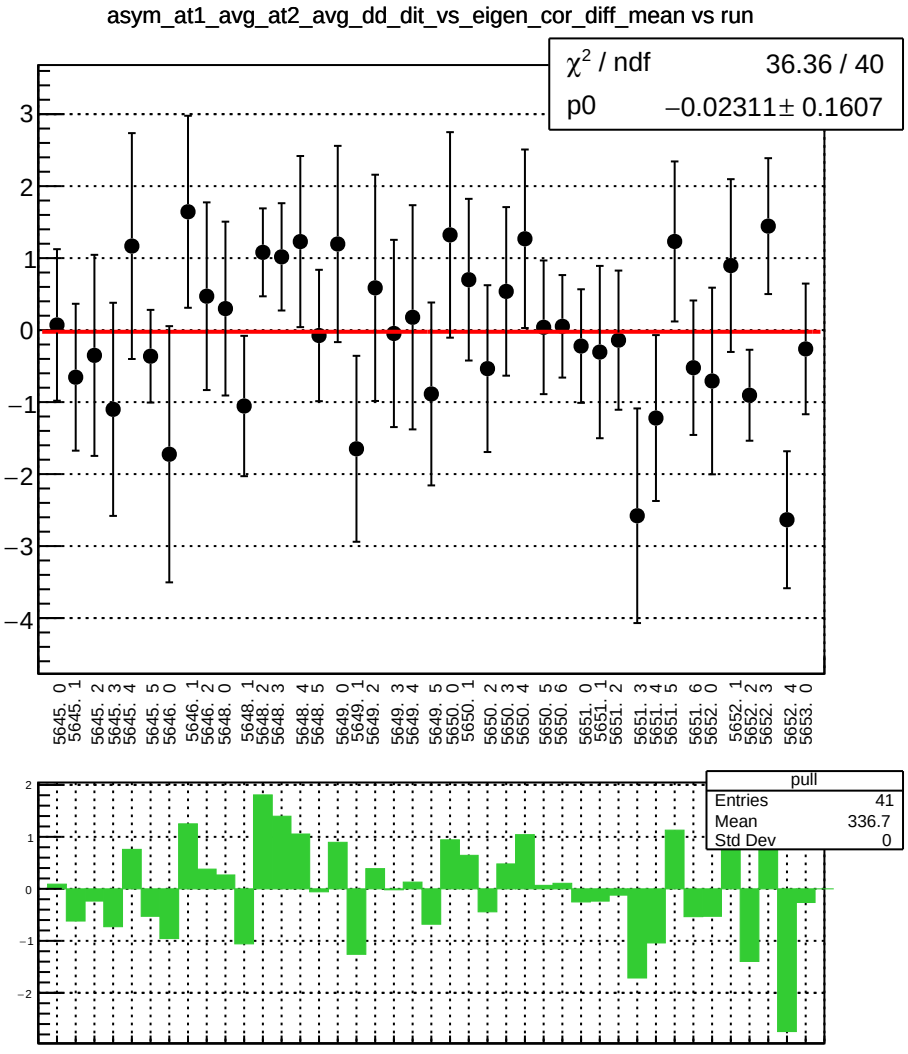

pull1D
Entries 41
Mean 0.05615
Std Dev 0.7319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

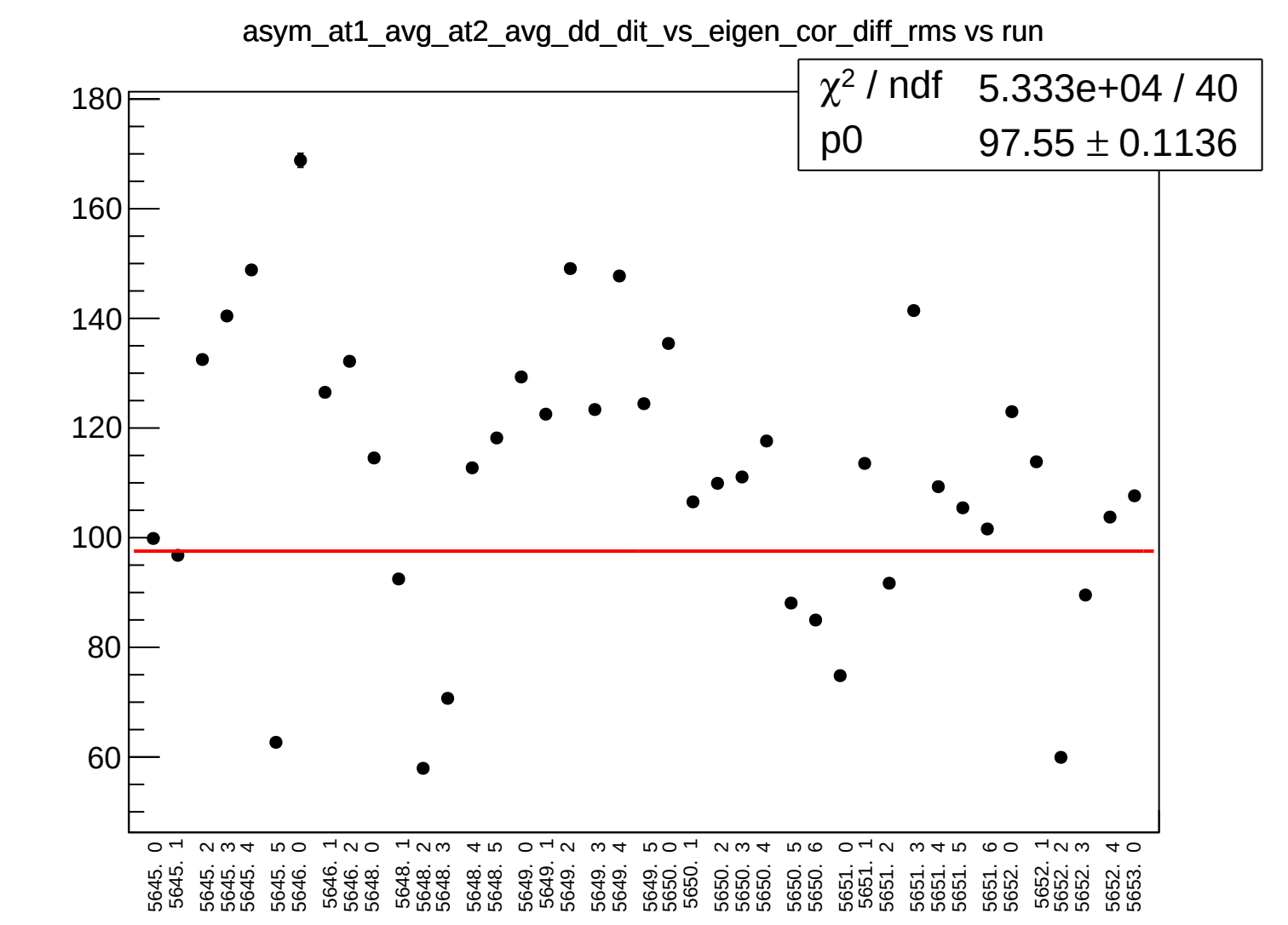

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.726e+05 / 40
p0 1.531e−10 ± 2.369e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

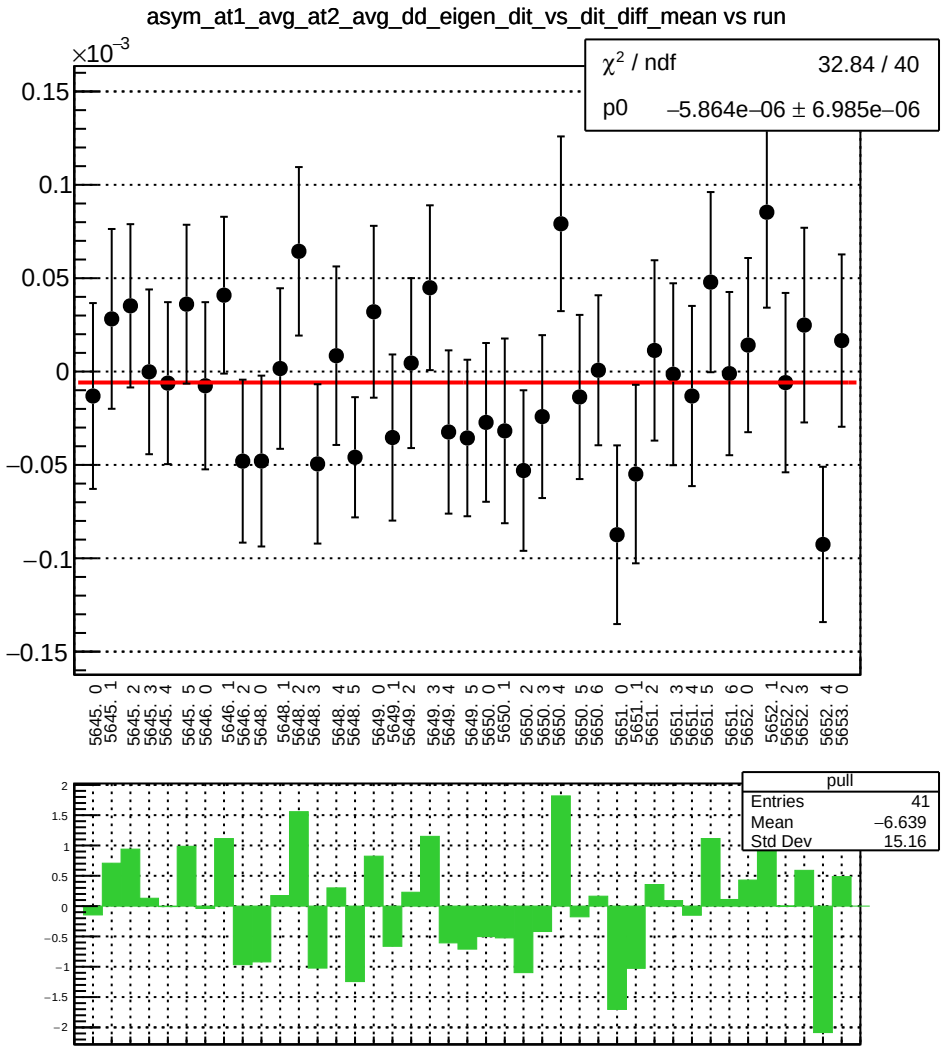

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.02311± 0.1607
pull
Entries 41
Mean 336.7
Std Dev 0

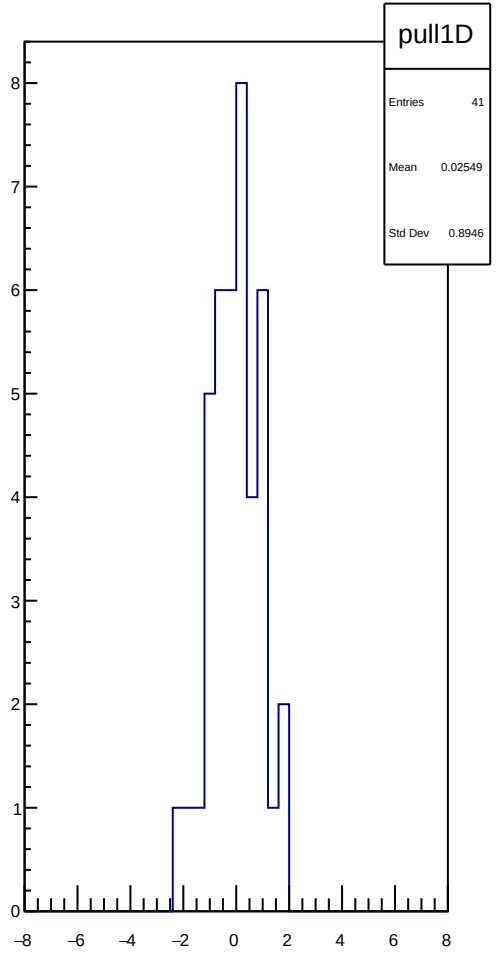

pull1D
Entries 41
Mean −0.006302
Std Dev 0.9417

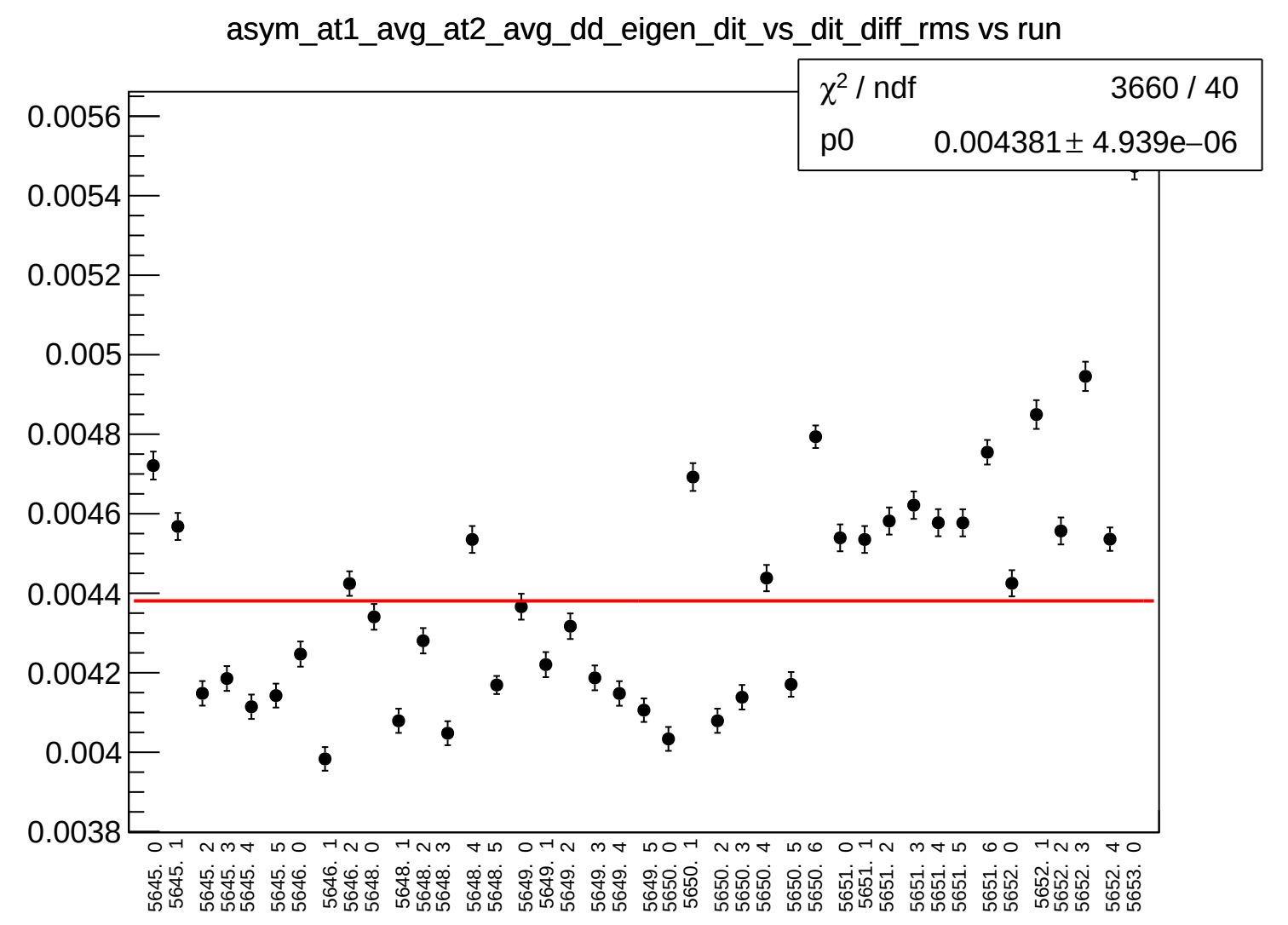

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

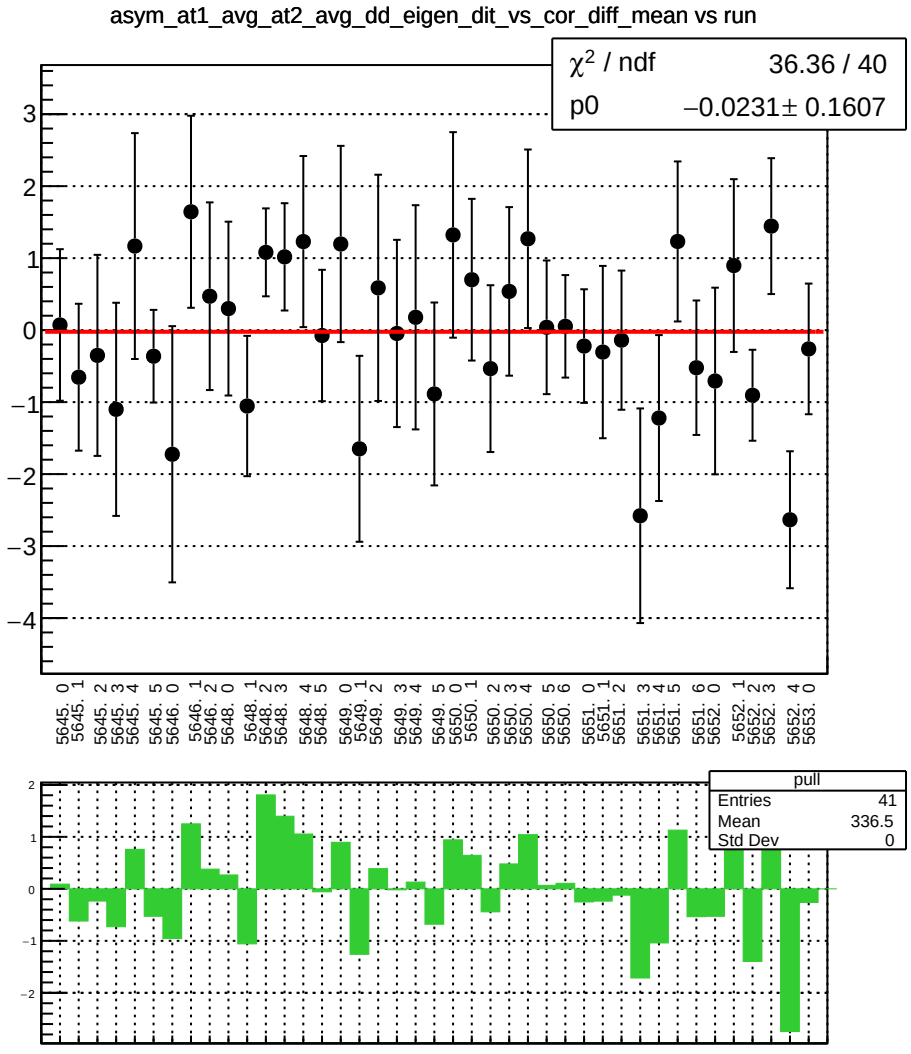

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.02311 ± 0.1607
pull
Entries 41
Mean 336.7
Std Dev 0
pull1D
Entries 41
Mean −0.006302
Std Dev 0.9417

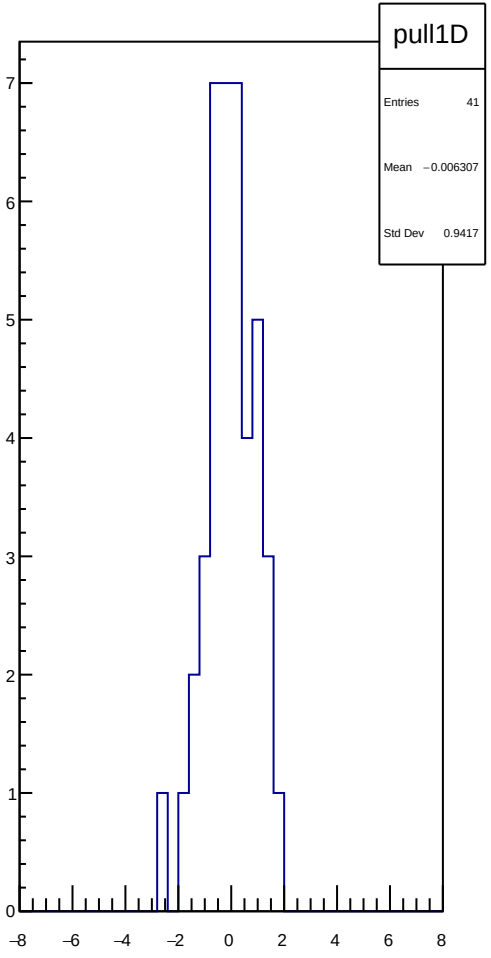

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

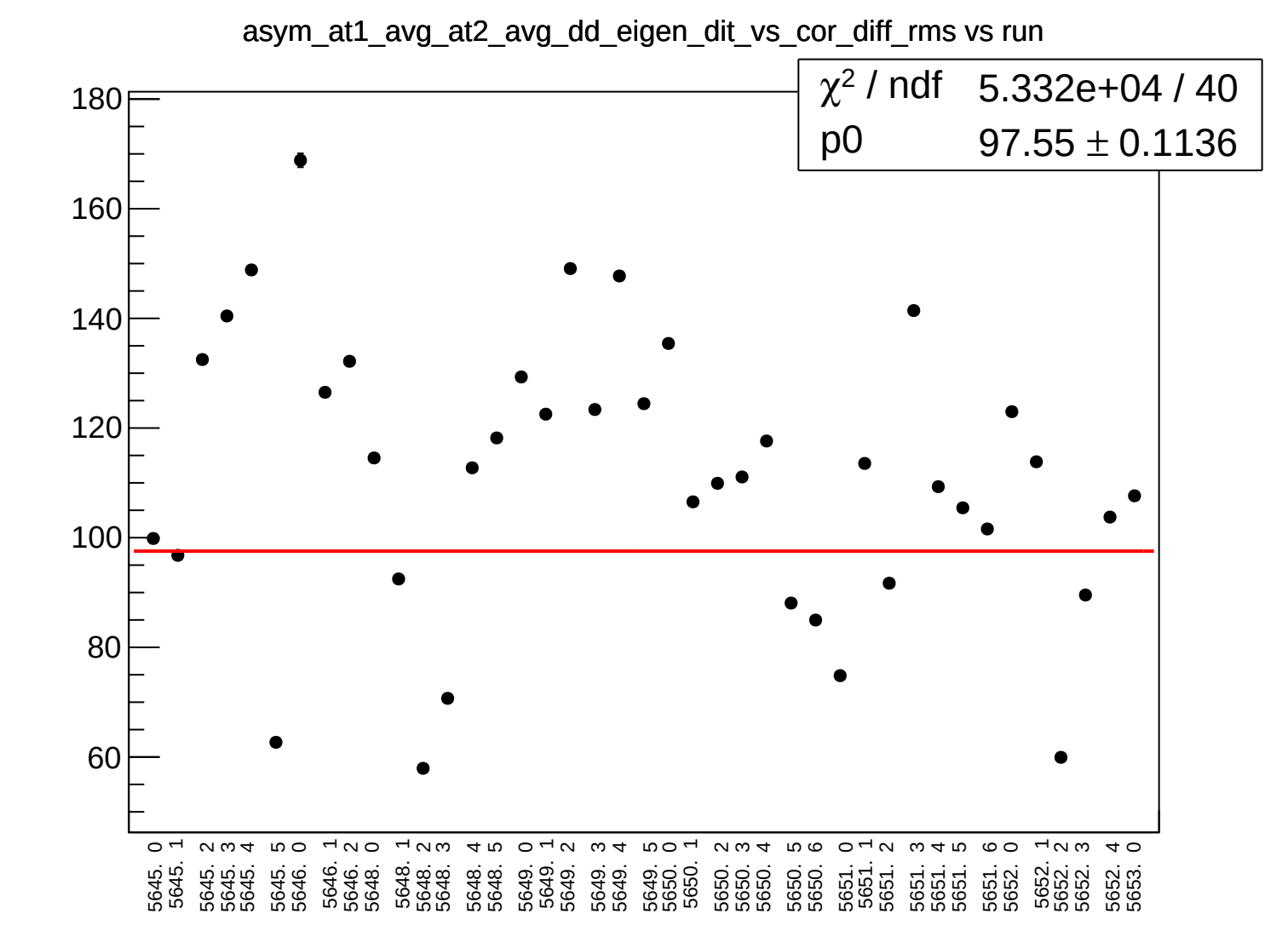

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.84 / 40
p0 −5.864e−06 ± 6.985e−06
pull
Entries 41
Mean −6.639
Std Dev 15.16

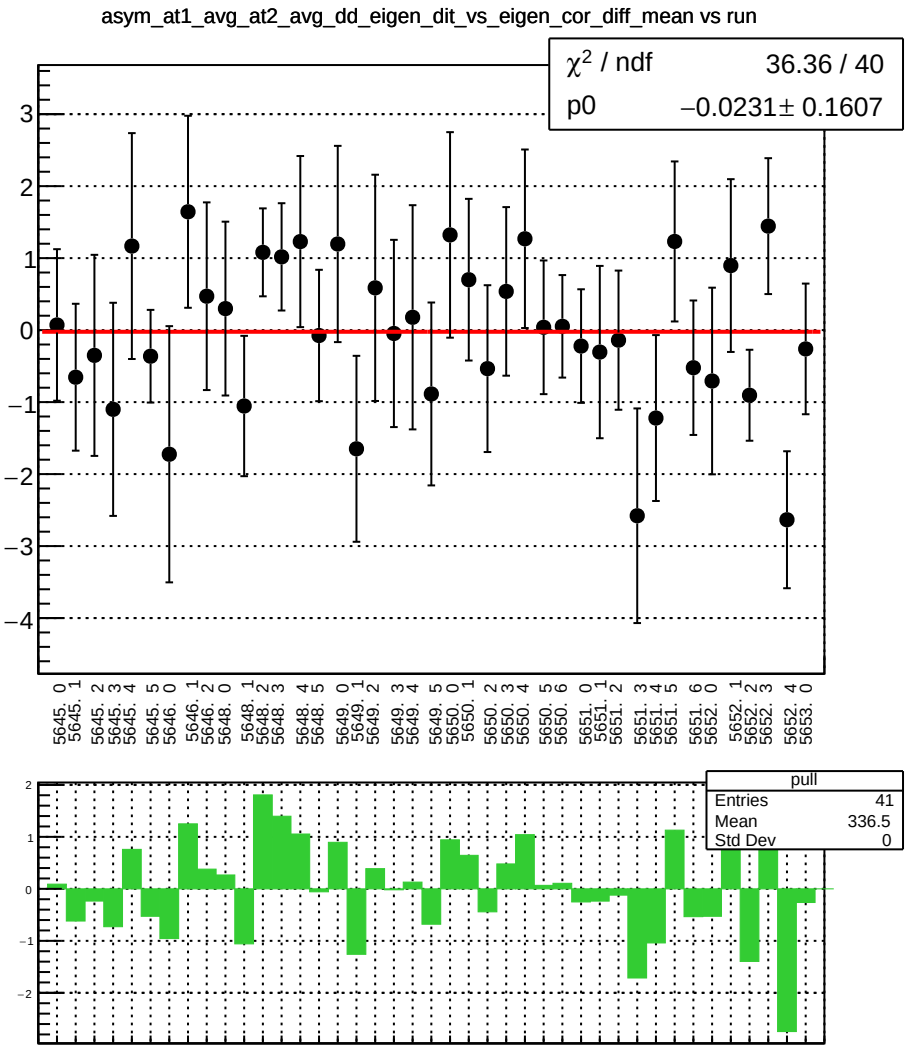

pull1D
Entries 41
Mean 0.02549
Std Dev 0.8946

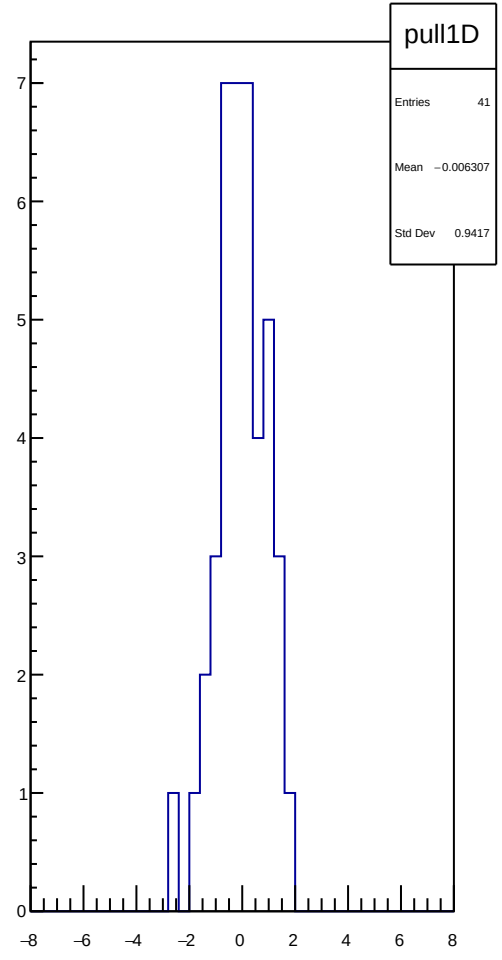

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3660 / 40
p0 0.004381 ± 4.939e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

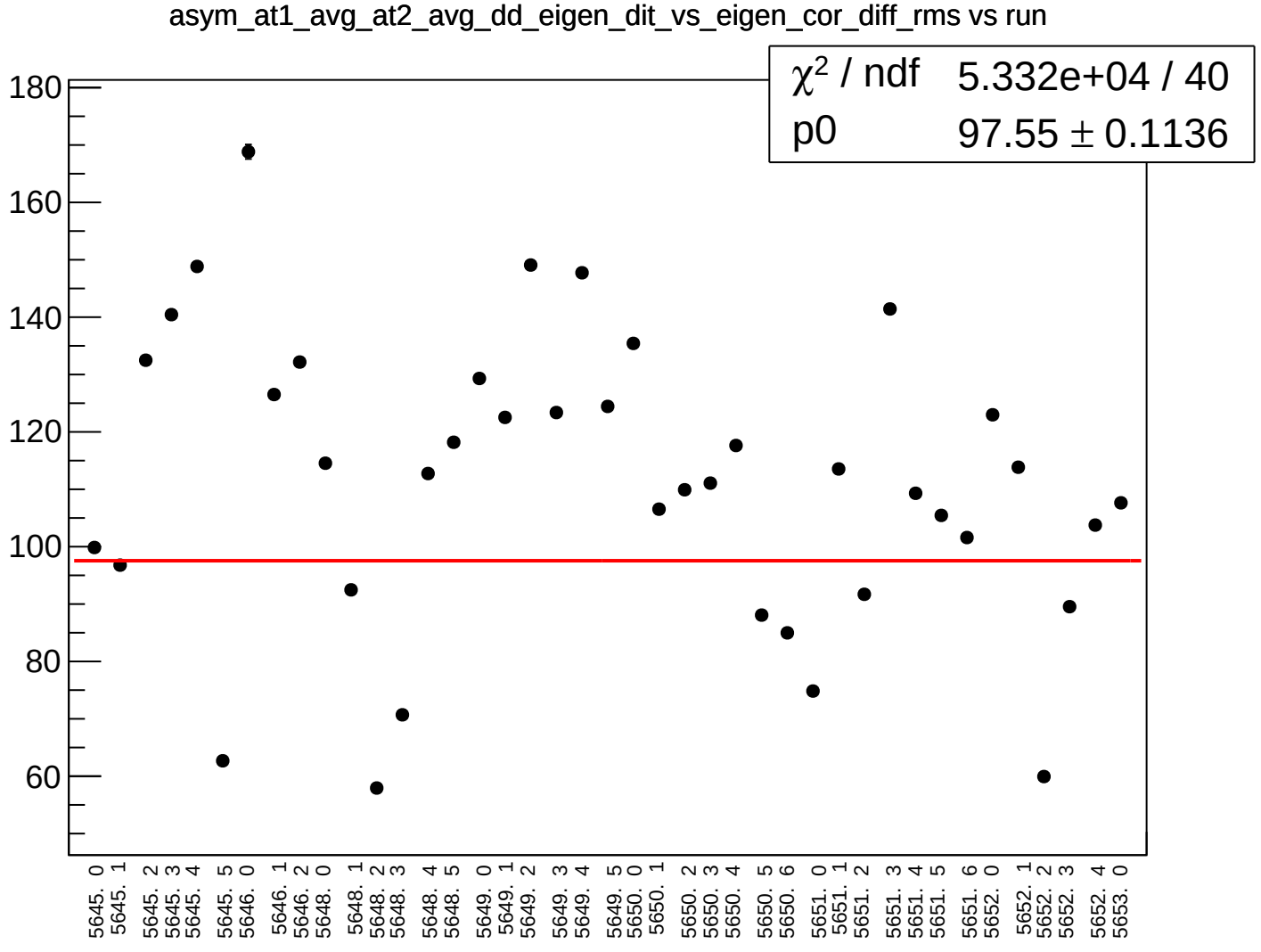

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.0231± 0.1607
pull
Entries 41
Mean 336.5
Std Dev 0

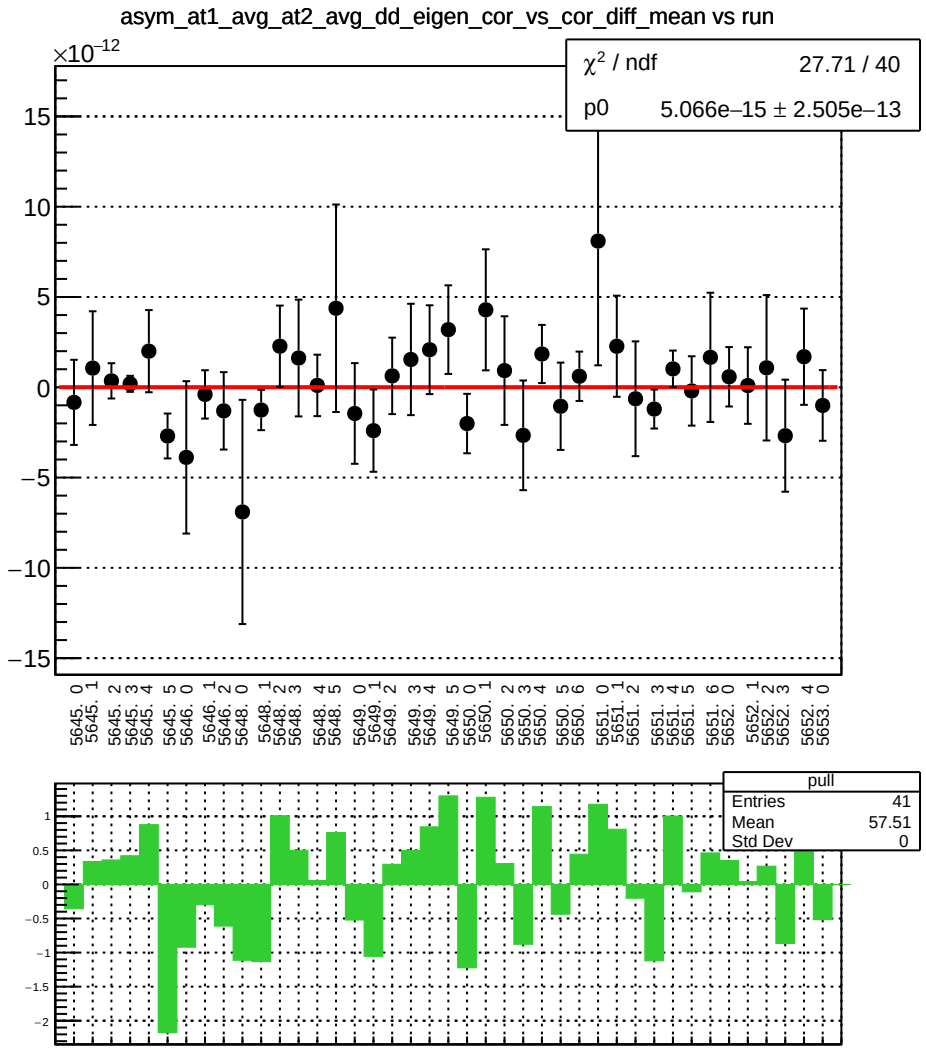

pull1D
Entries 41
Mean −0.006307
Std Dev 0.9417

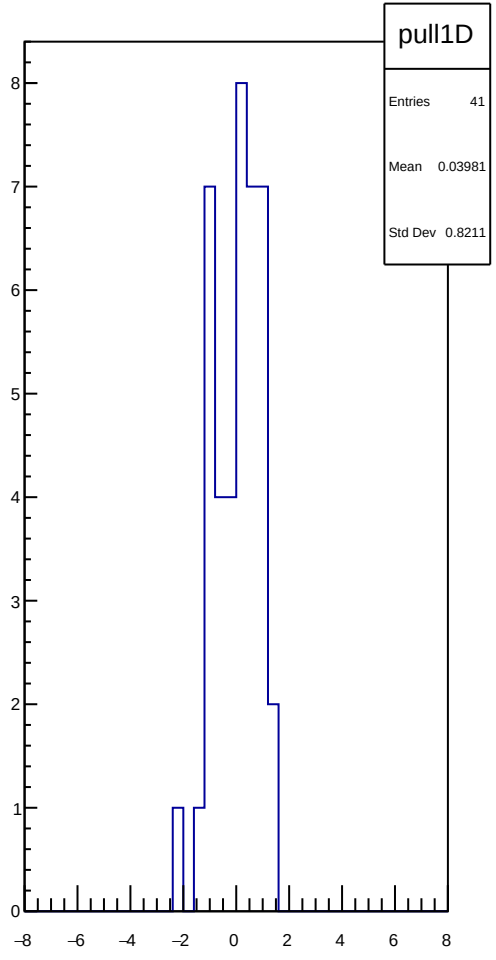

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.332e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

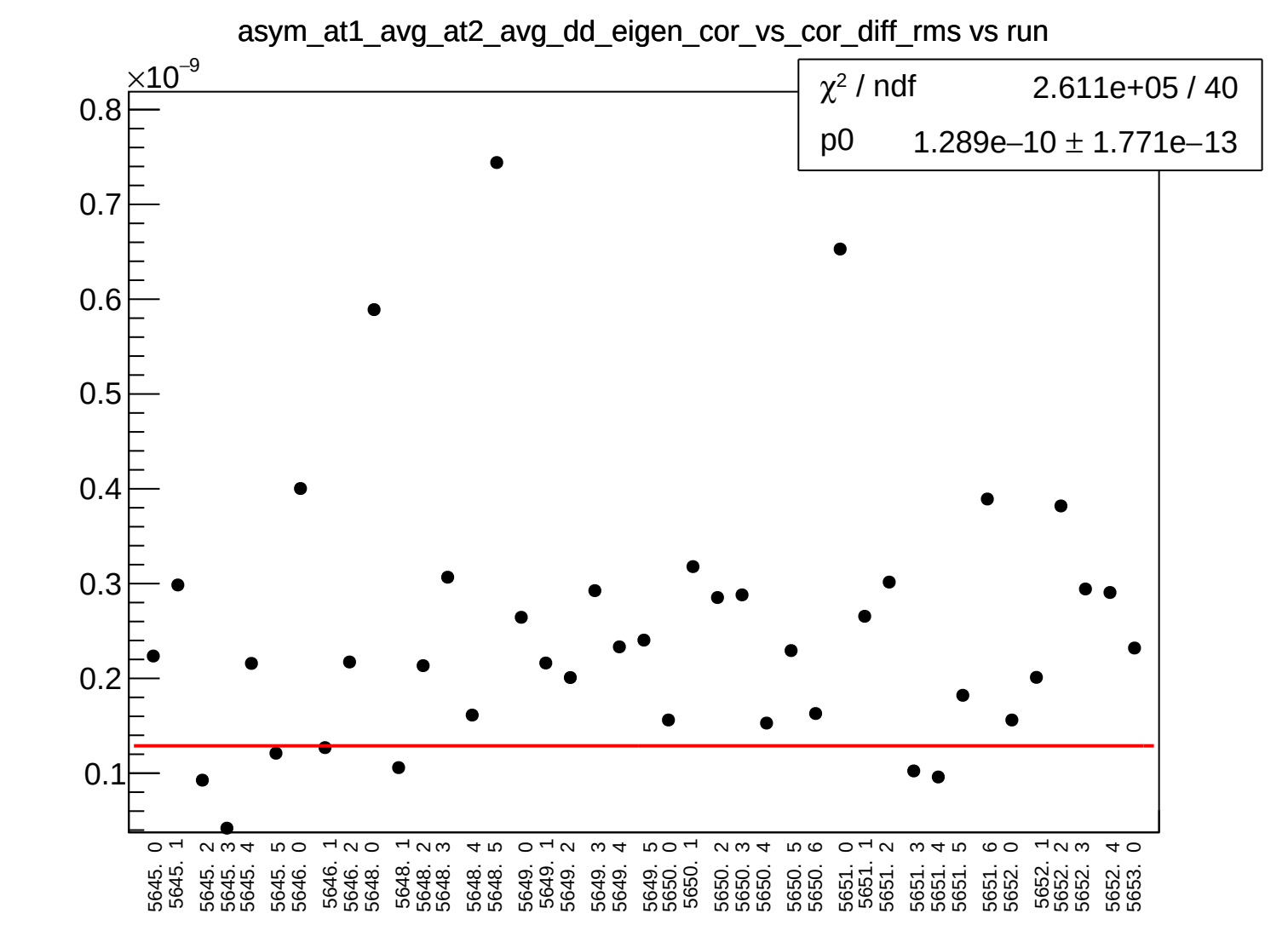

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.0231± 0.1607
pull
Entries 41
Mean 336.5
Std Dev 0

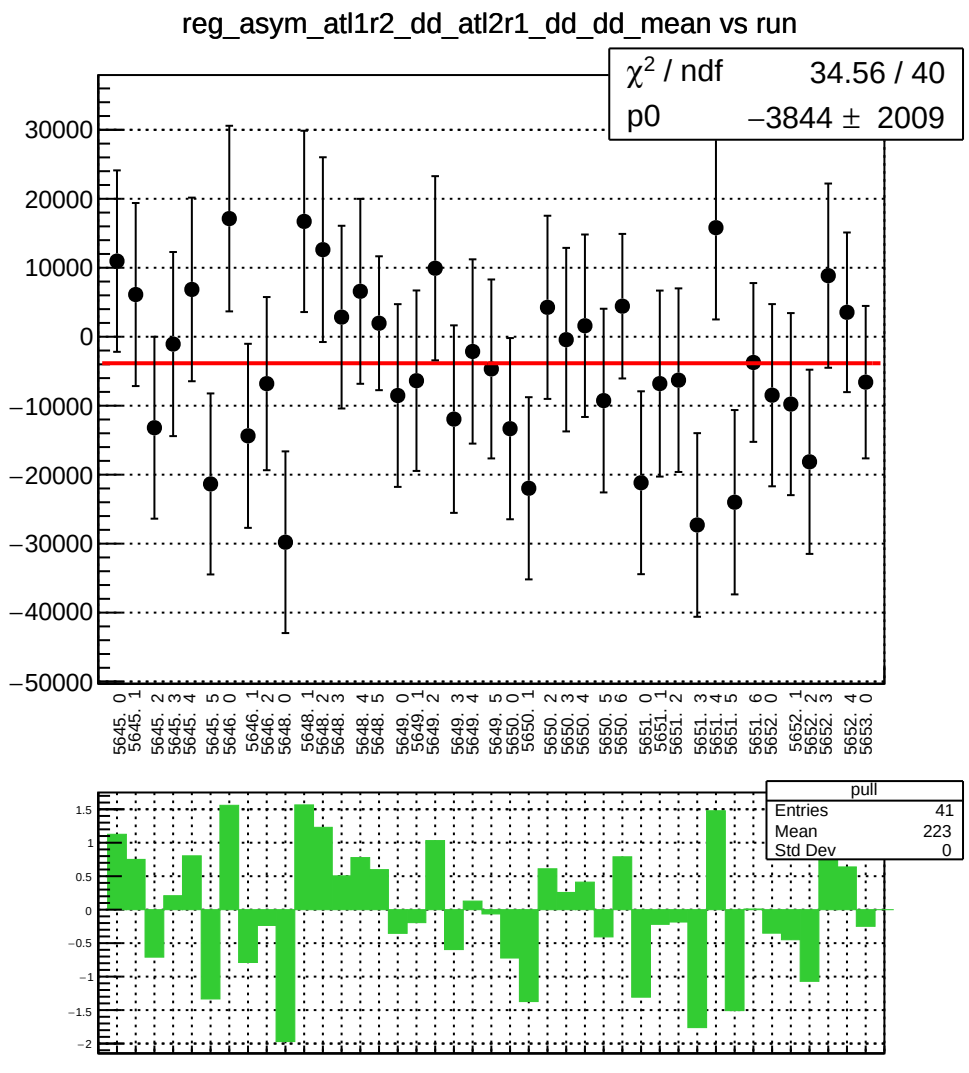

pull1D
Entries 41
Mean −0.006307
Std Dev 0.9417

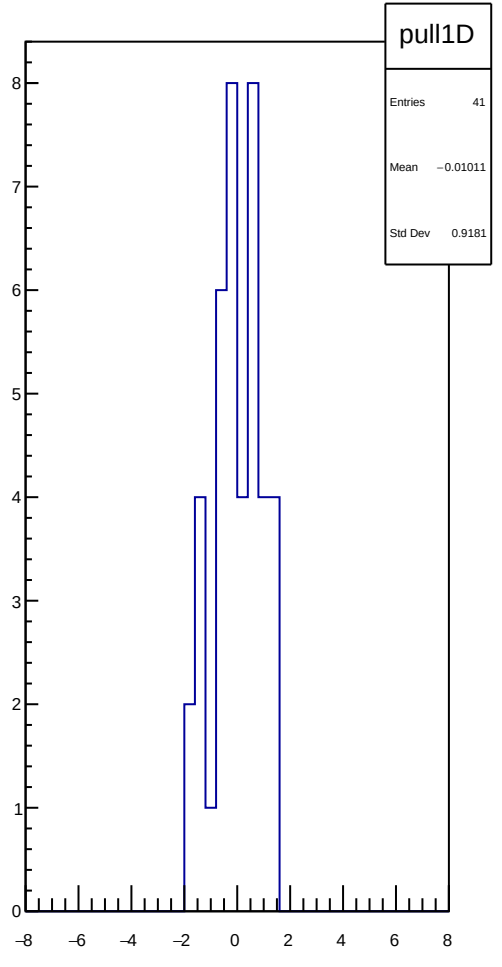

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.332e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

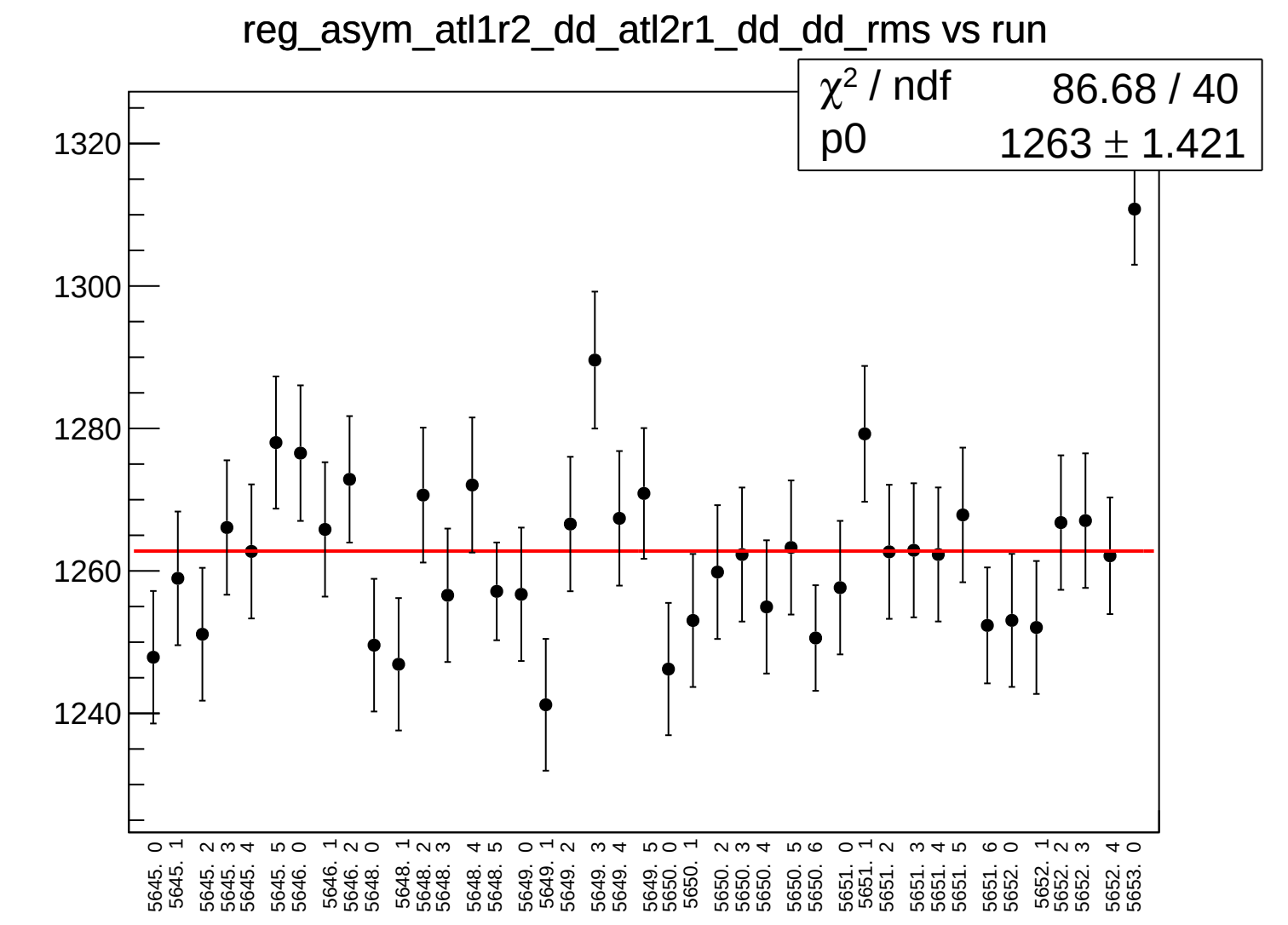

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.71 / 40
p0 5.066e−15 ± 2.505e−13
15
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 57.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

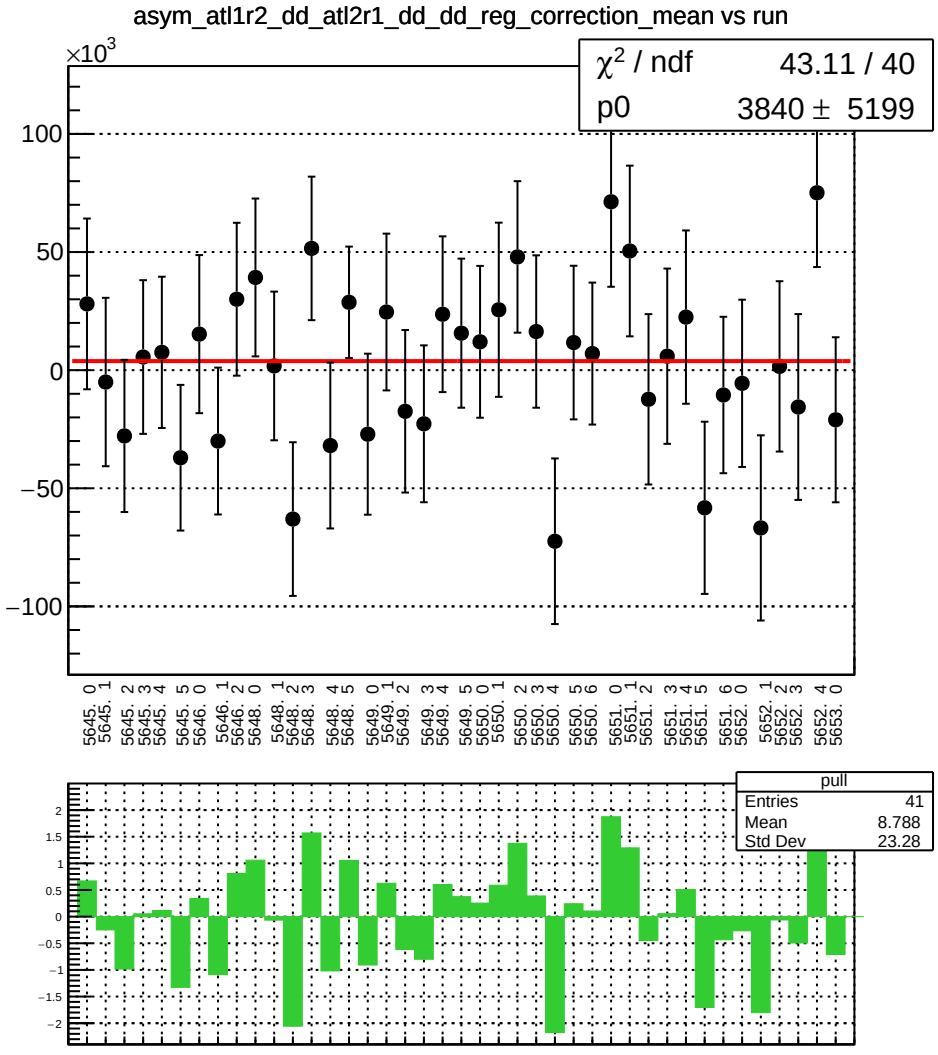

pull1D
Entries 41
Mean 0.03981
Std Dev 0.8211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

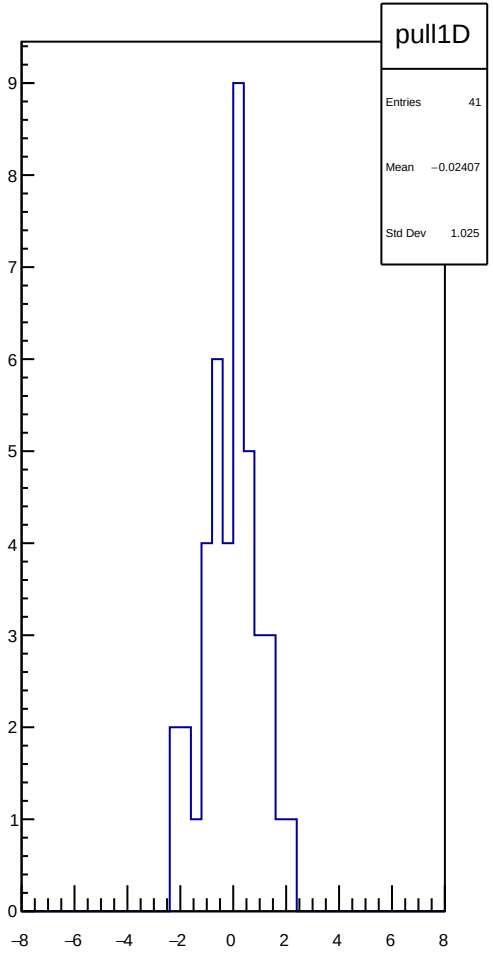

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.611e+05 / 40
p0 1.289e−10 ± 1.771e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

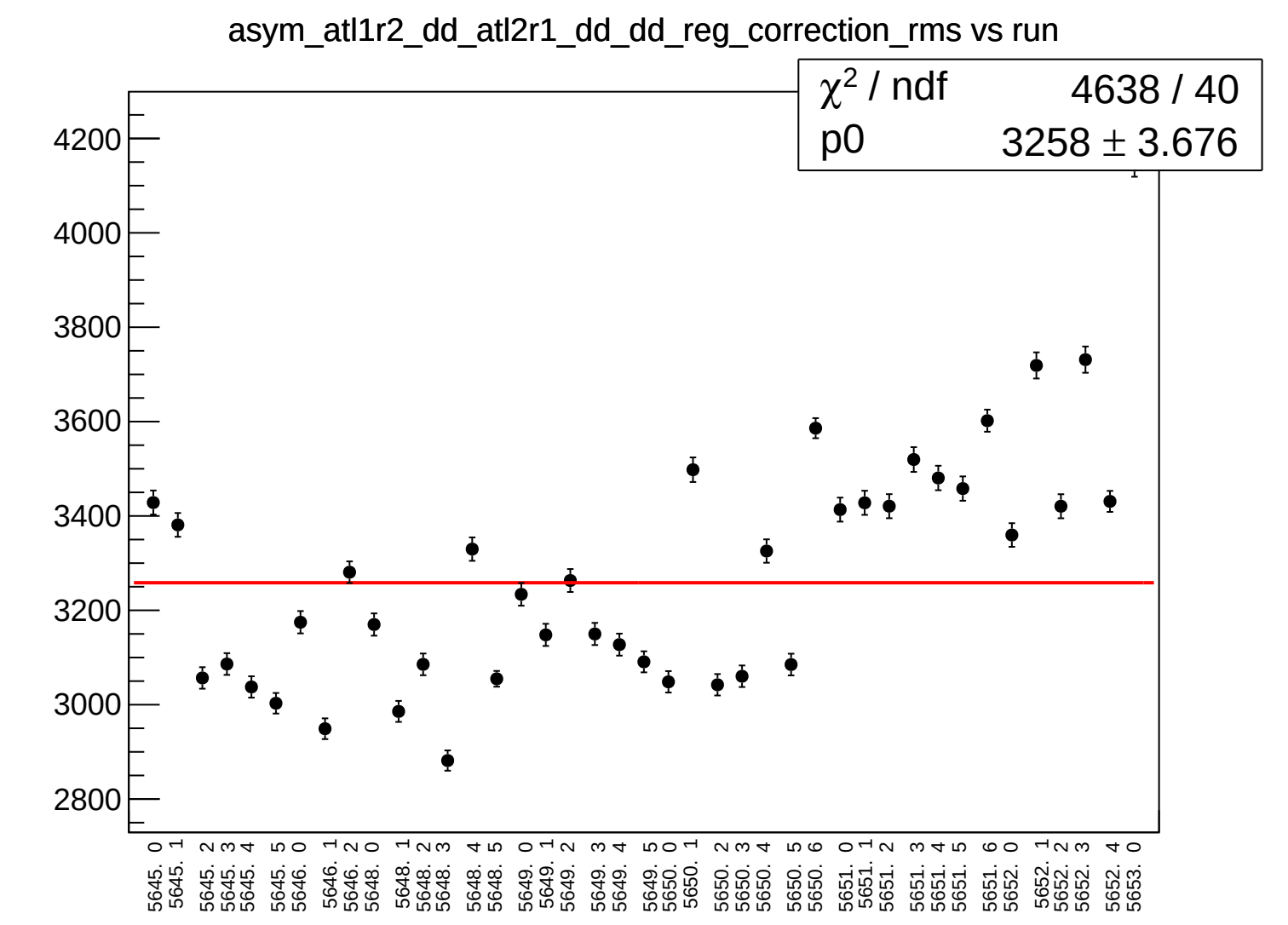

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
pull
Entries 41
Mean 223
Std Dev 0

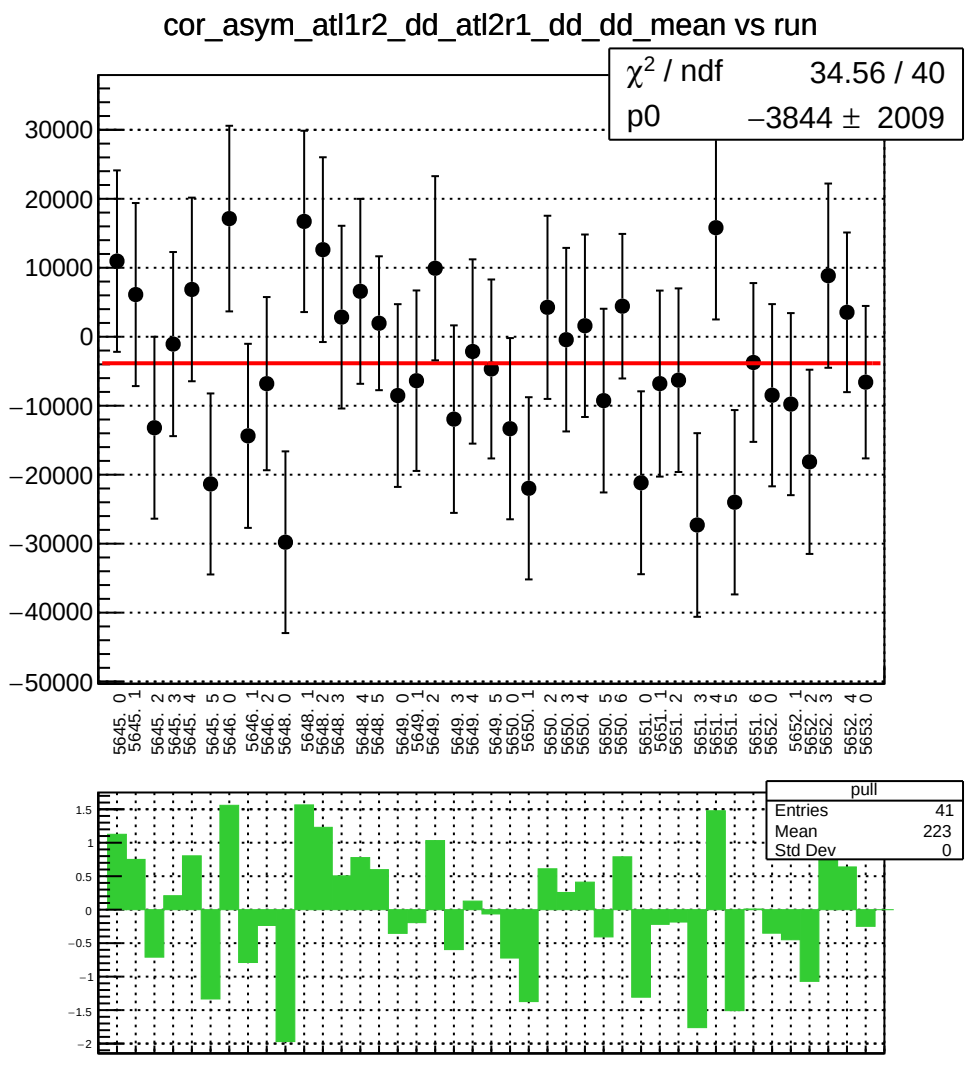

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181

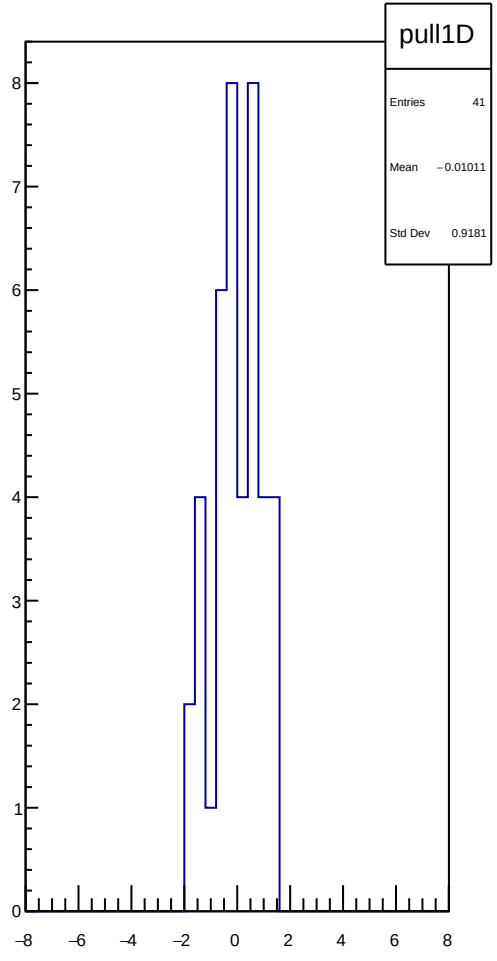

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

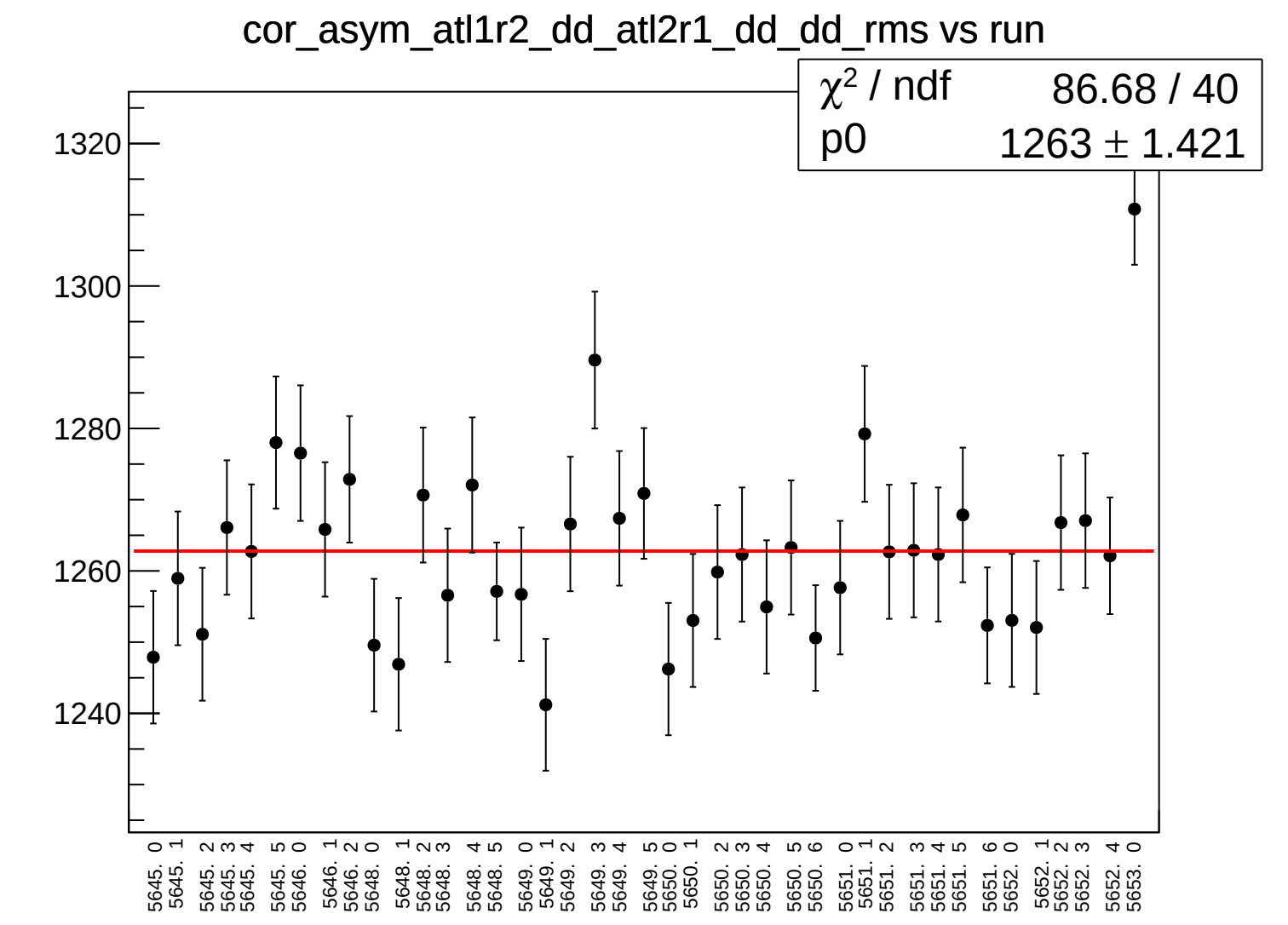

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.788
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

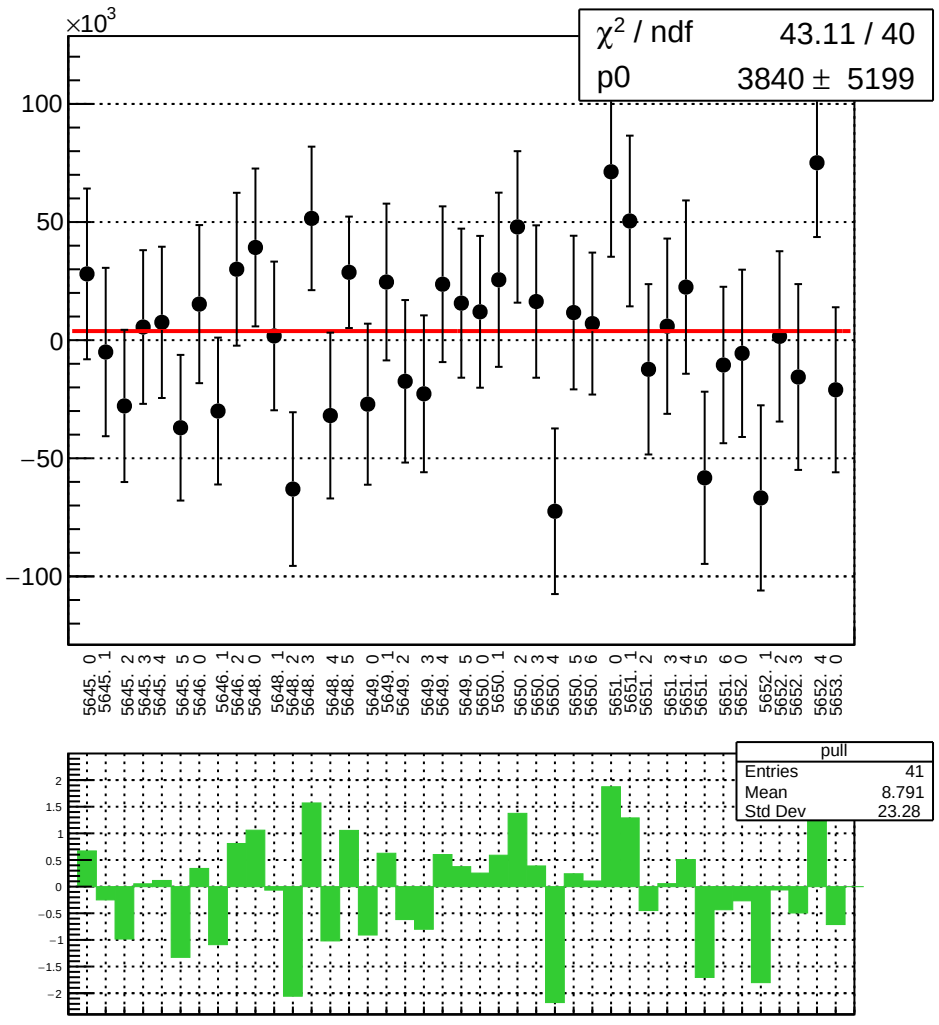

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

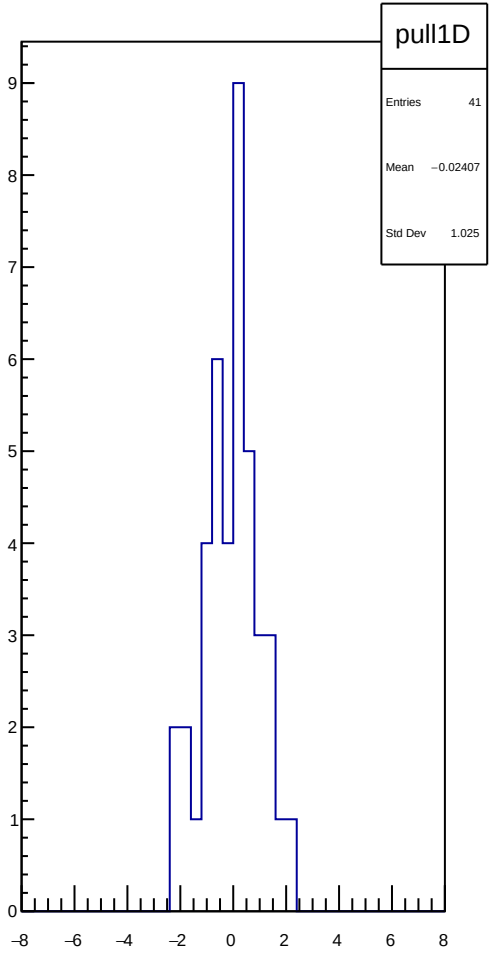

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

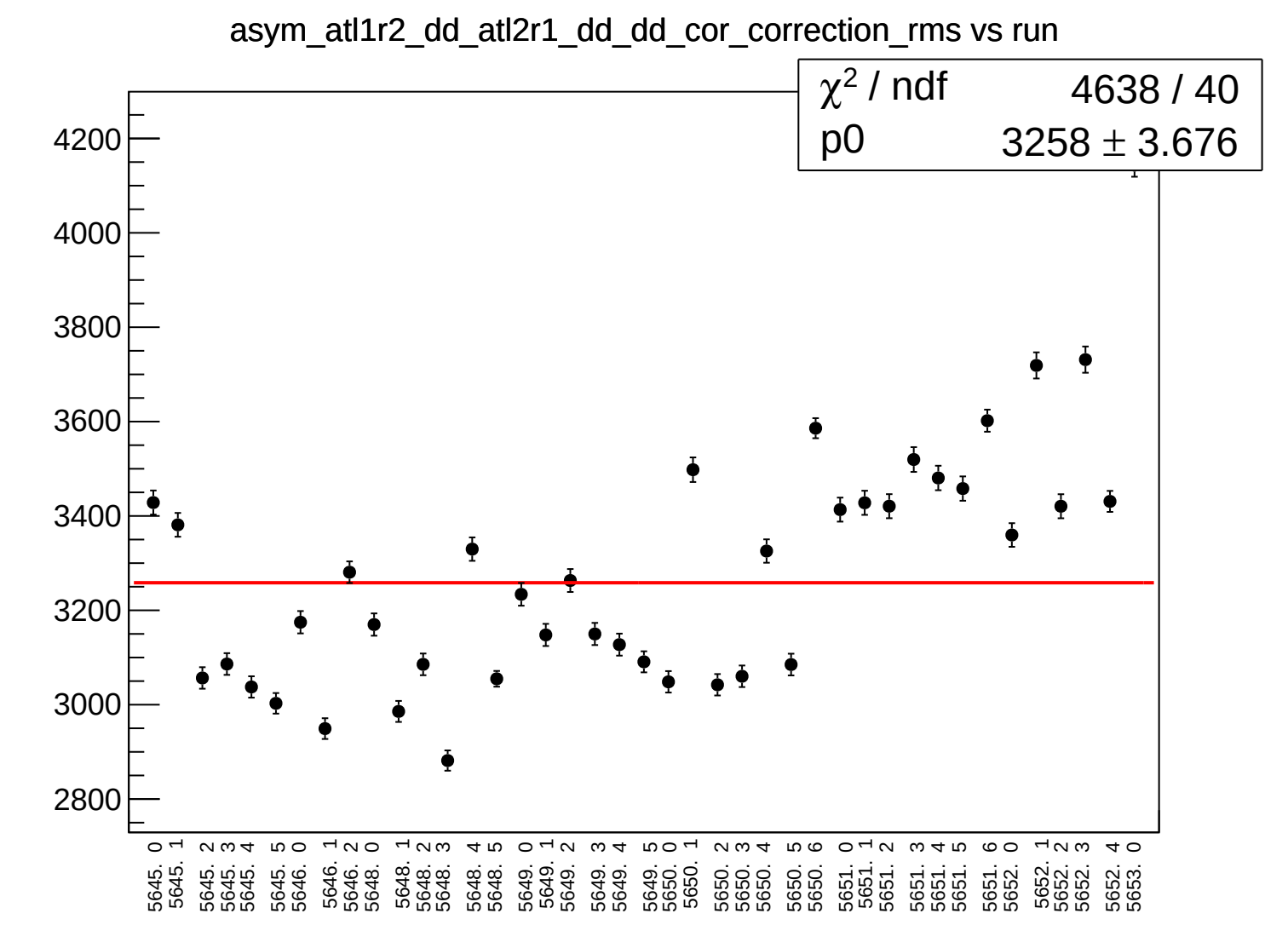

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
pull
Entries 41
Mean 223
Std Dev 0

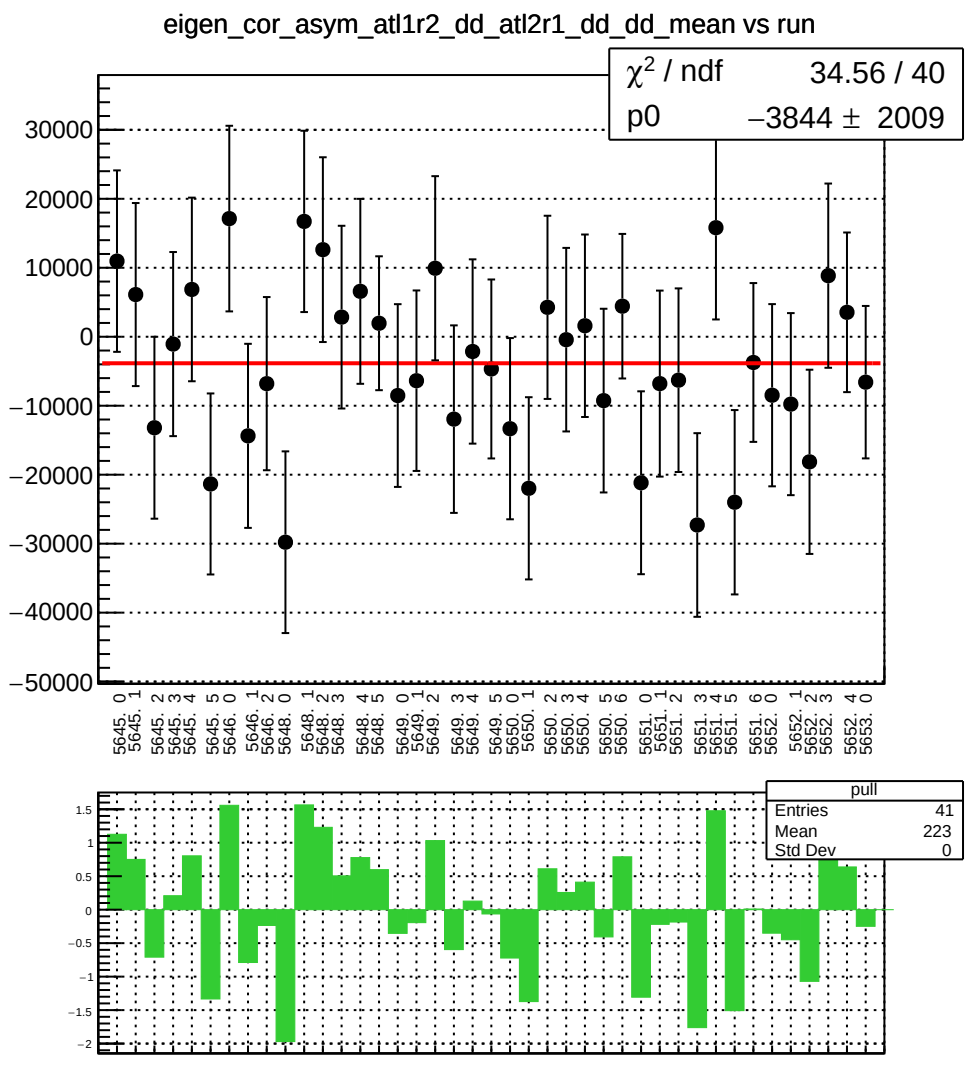

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181

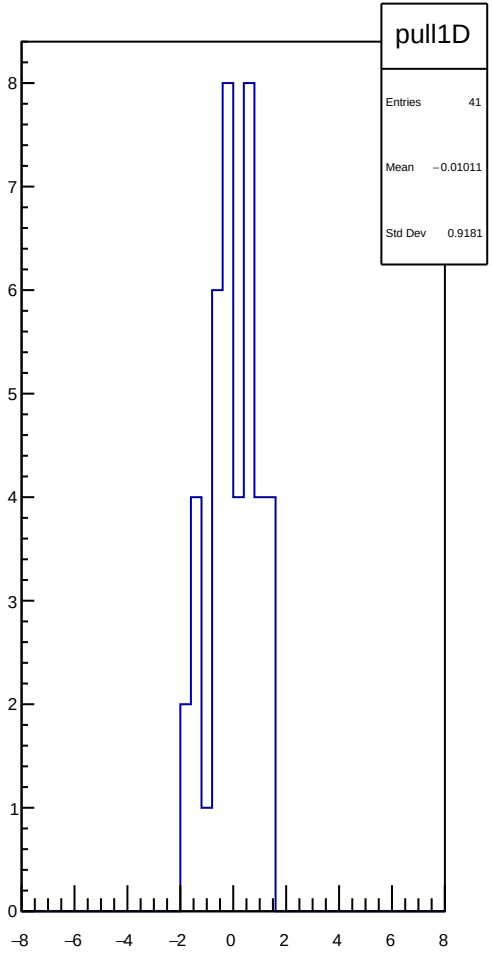

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

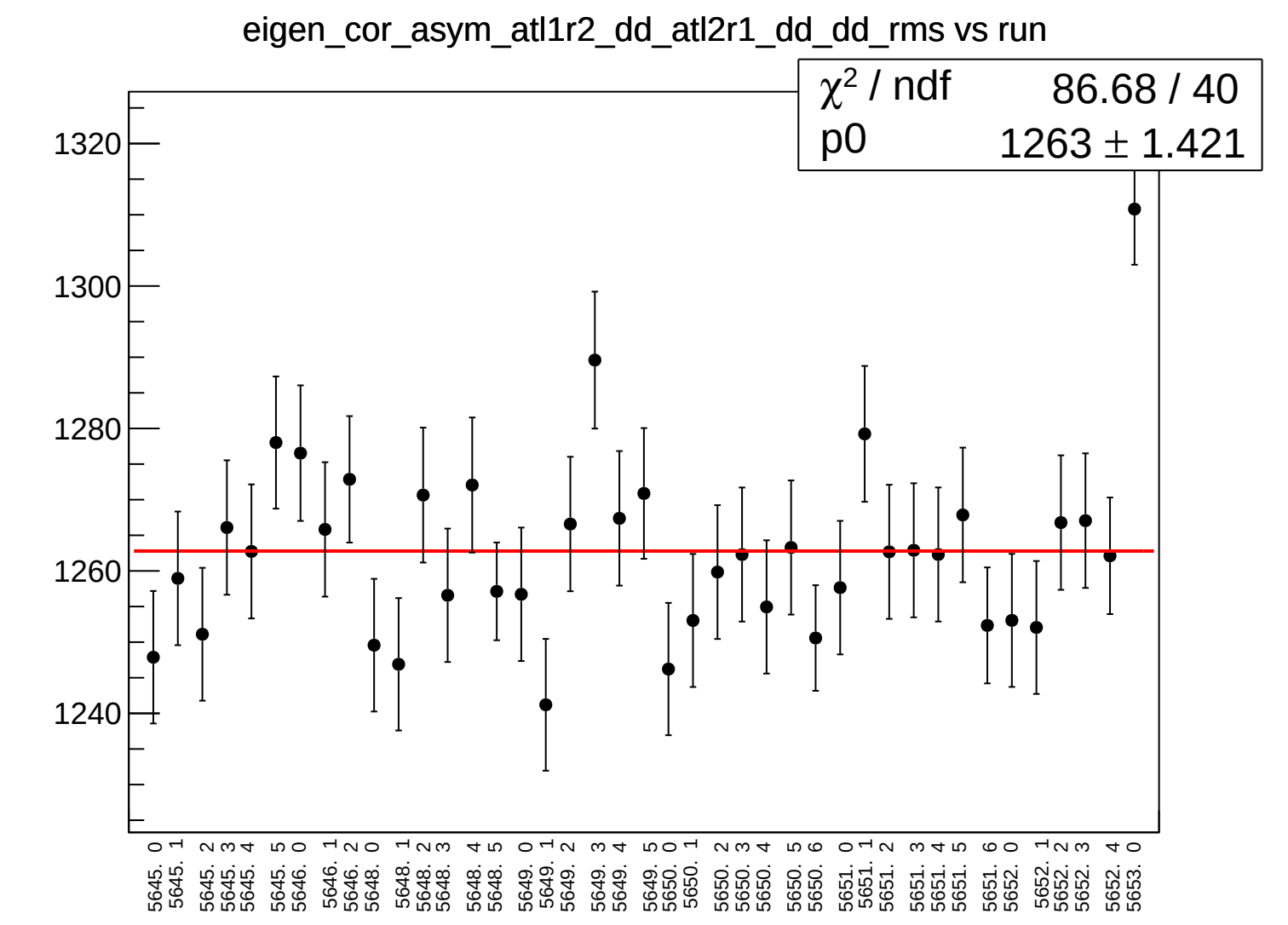

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.791
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

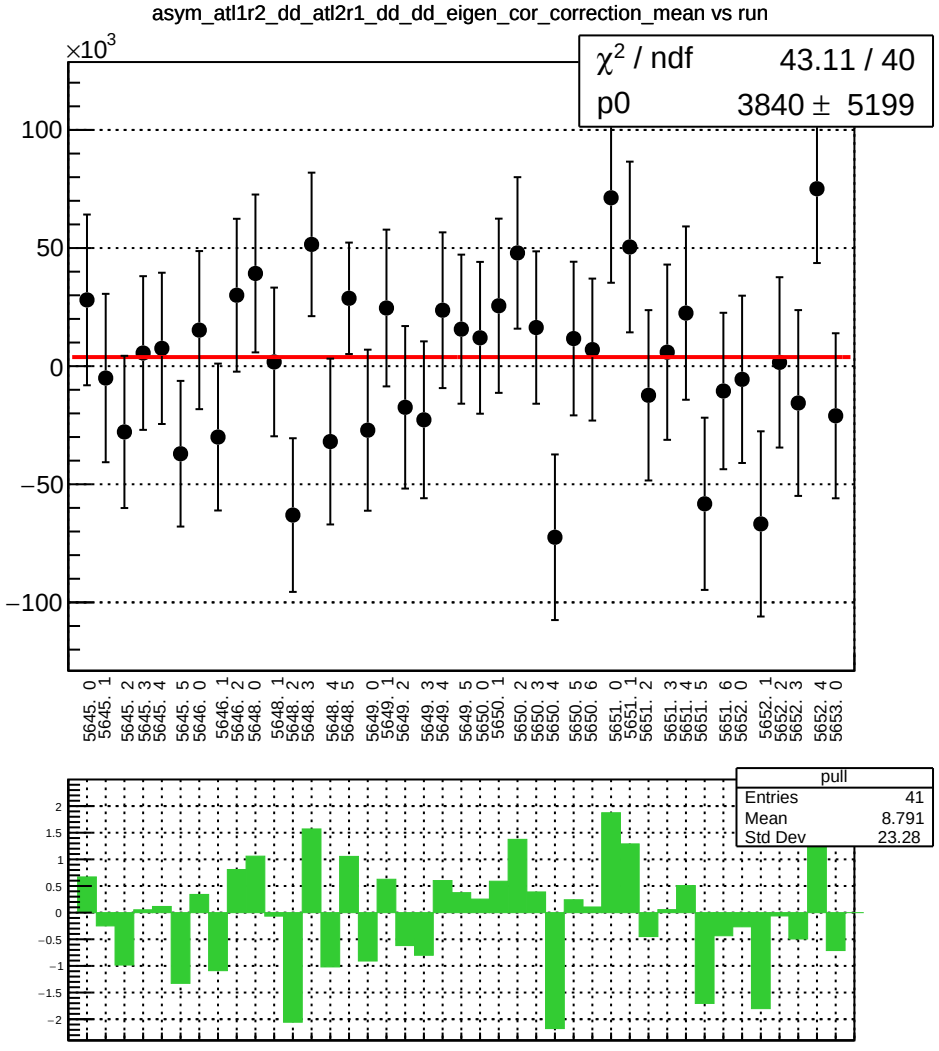

pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

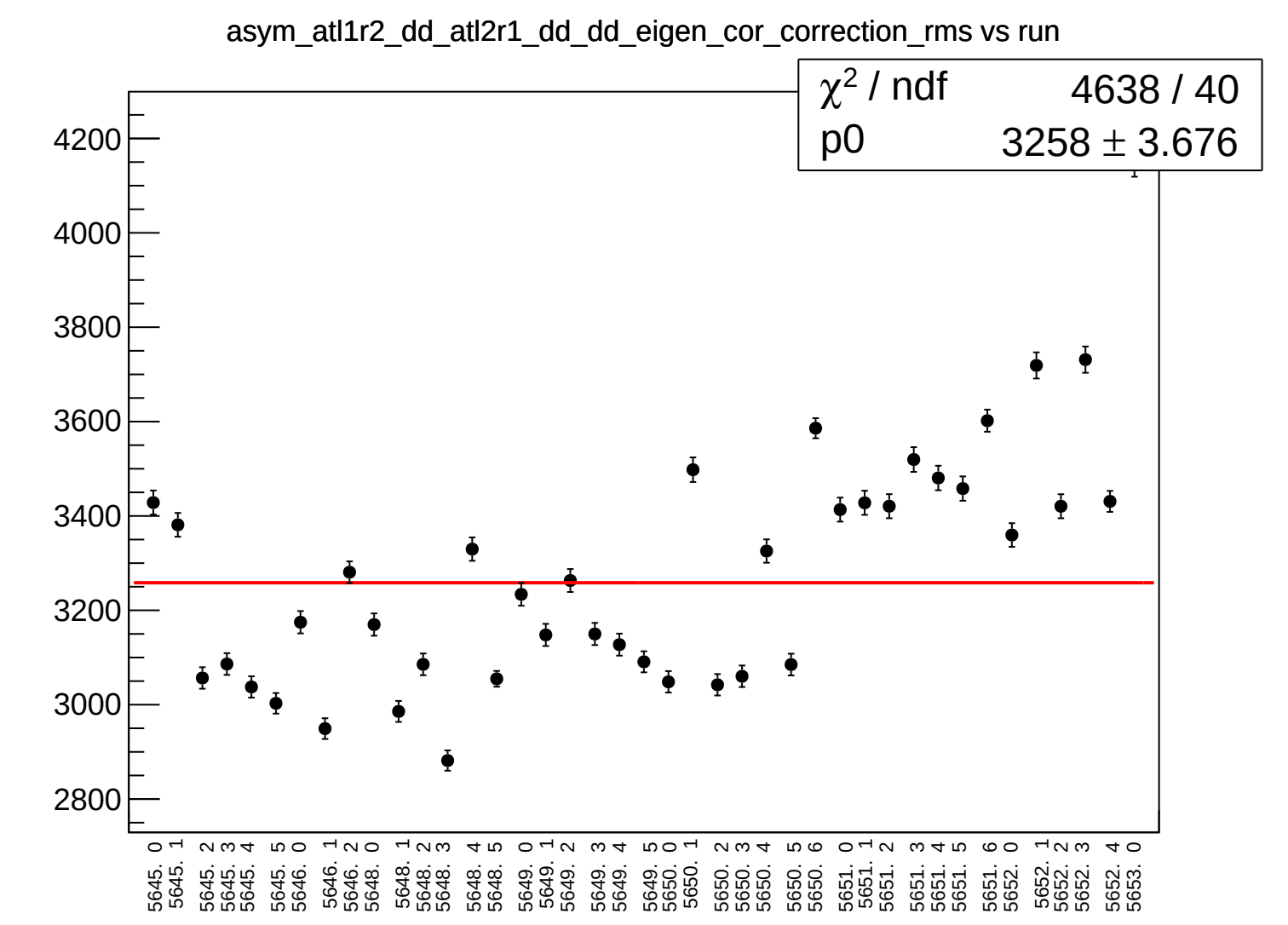

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

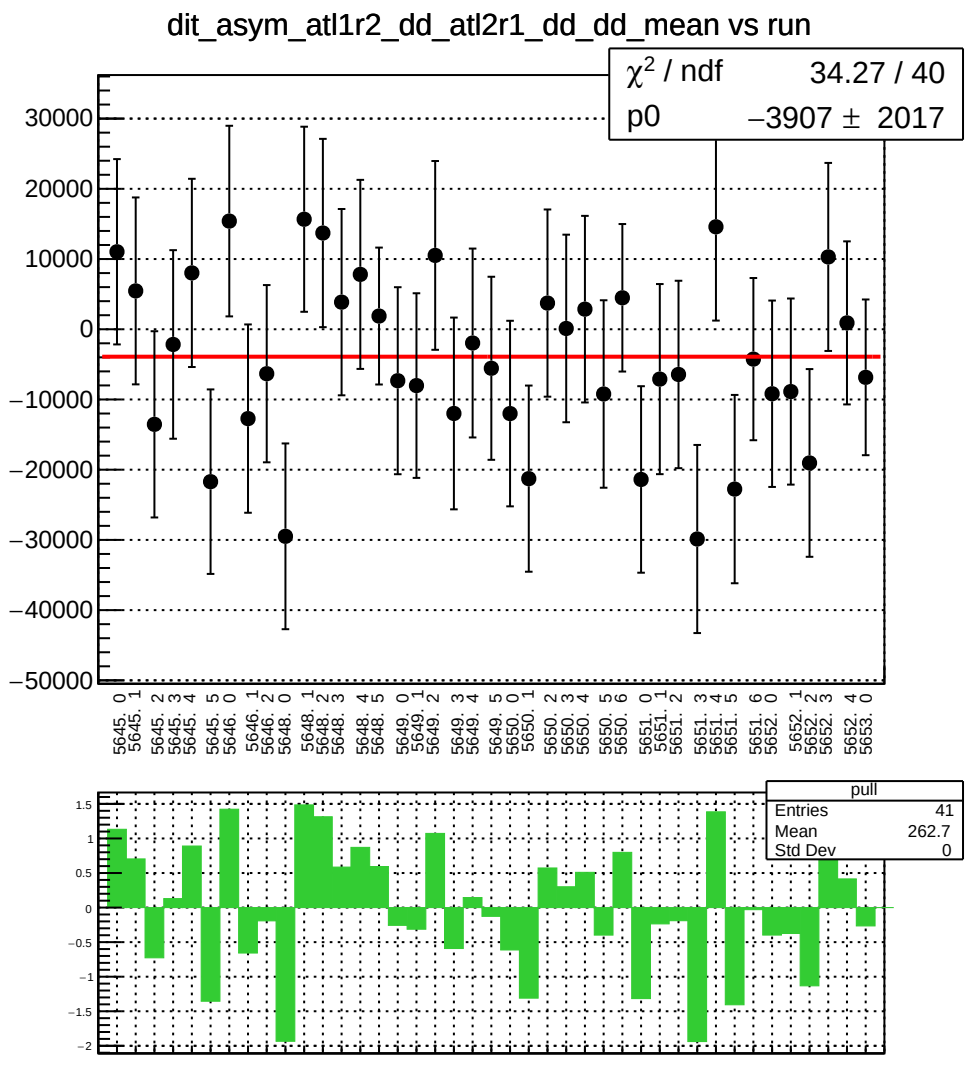

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 34.56 / 40
p0 −3844 ± 2009
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 223
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

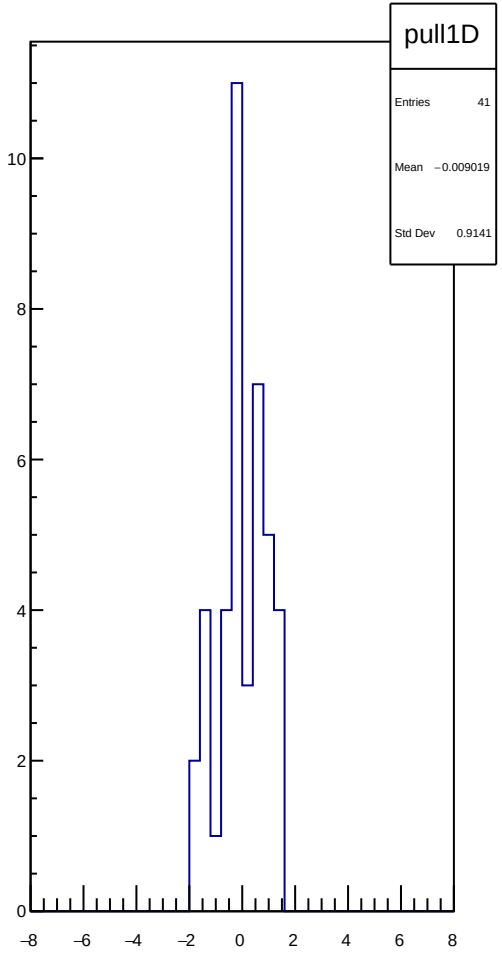

pull1D
Entries 41
Mean −0.01011
Std Dev 0.9181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

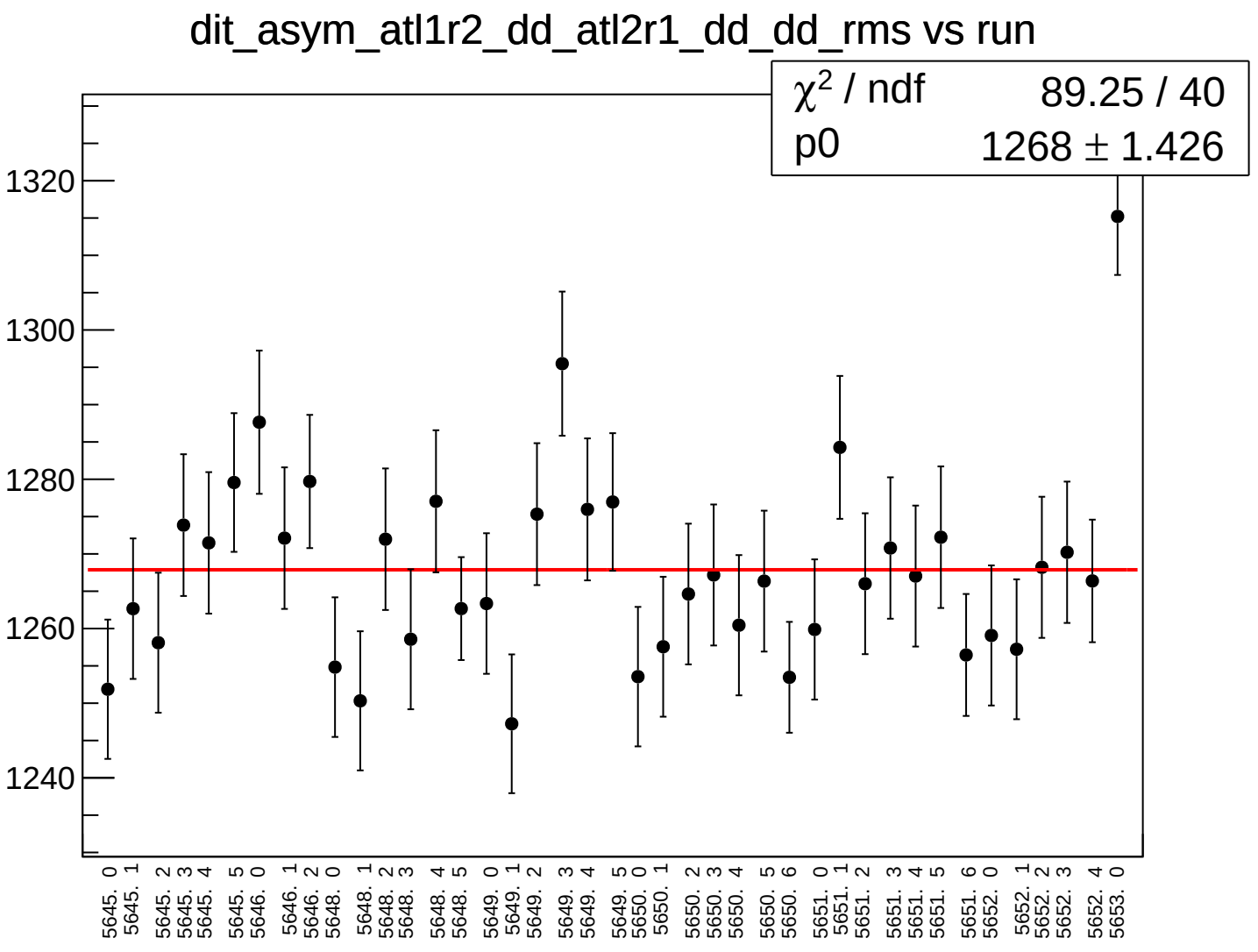

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 86.68 / 40
p0 1263 ± 1.421
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

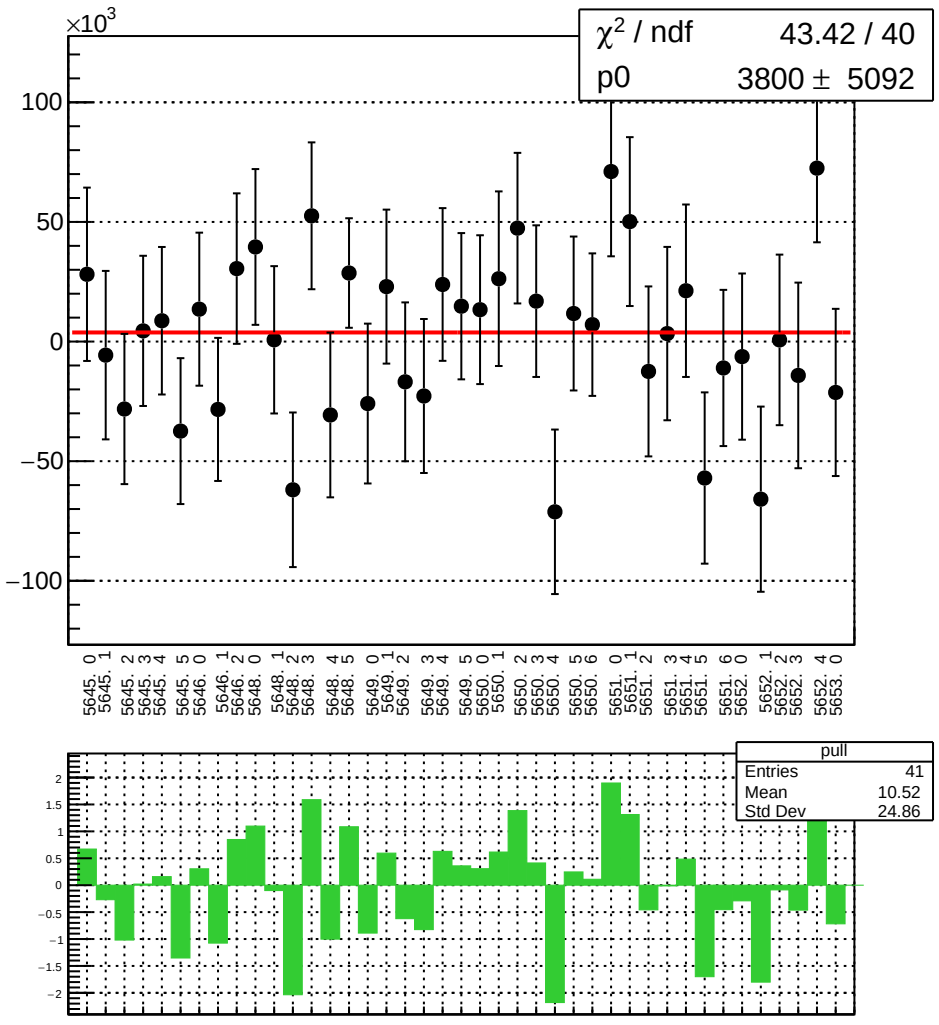

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 43.11 / 40
p0 3840 ± 5199
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.791
Std Dev 23.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02407
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

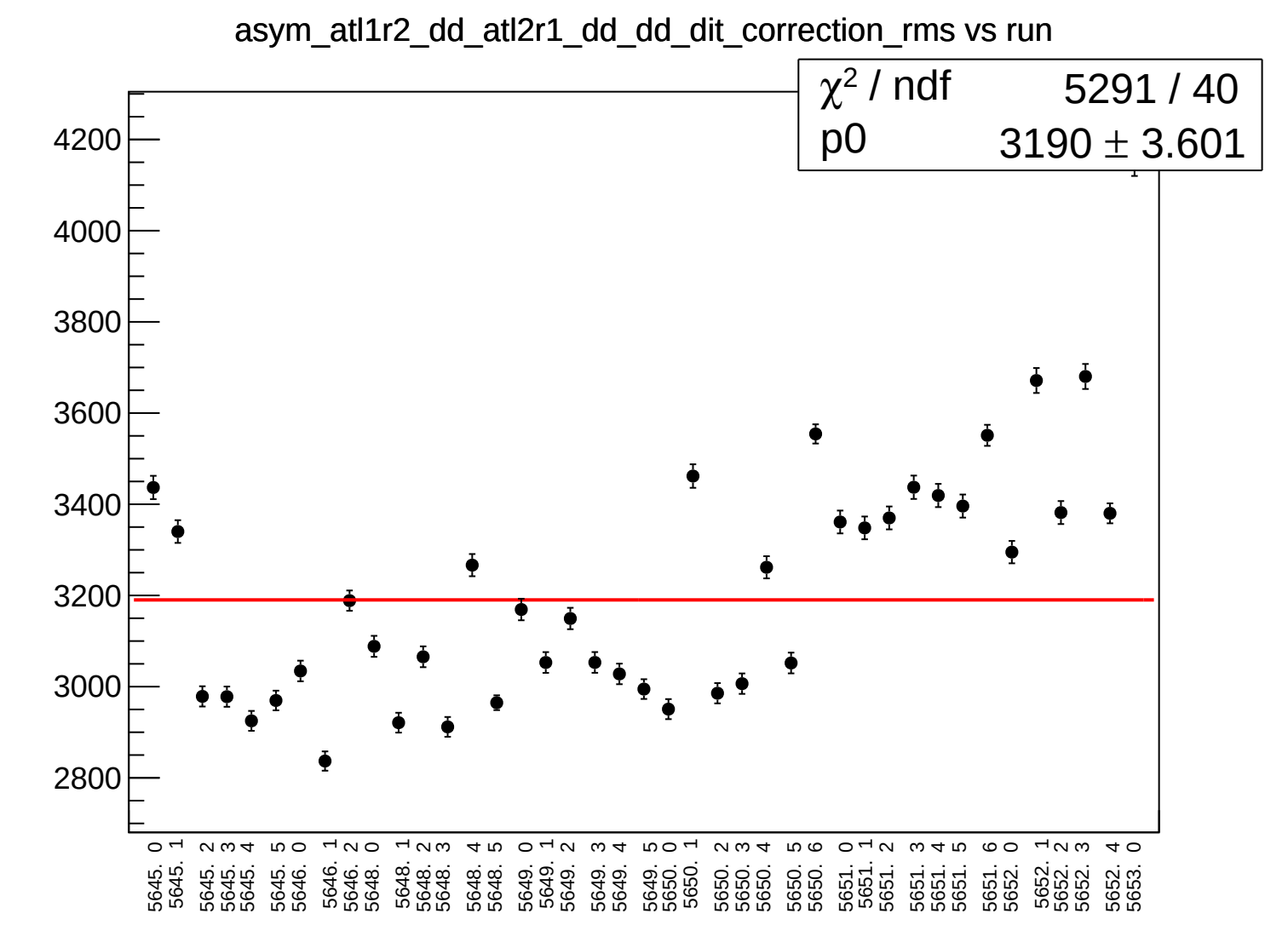

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4638 / 40
p0 3258 ± 3.676
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

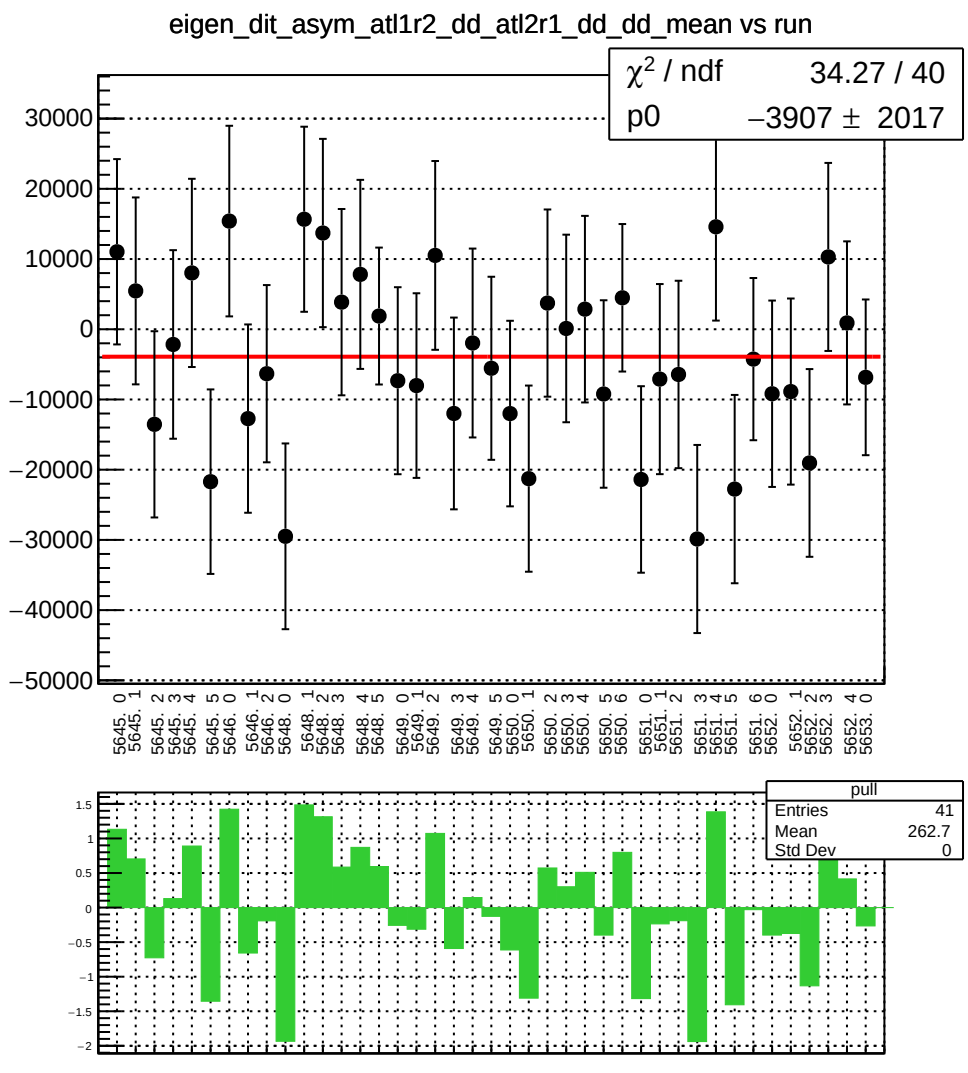

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 34.27 / 40
p0 −3907 ± 2017
pull
Entries 41
Mean 262.7
Std Dev 0

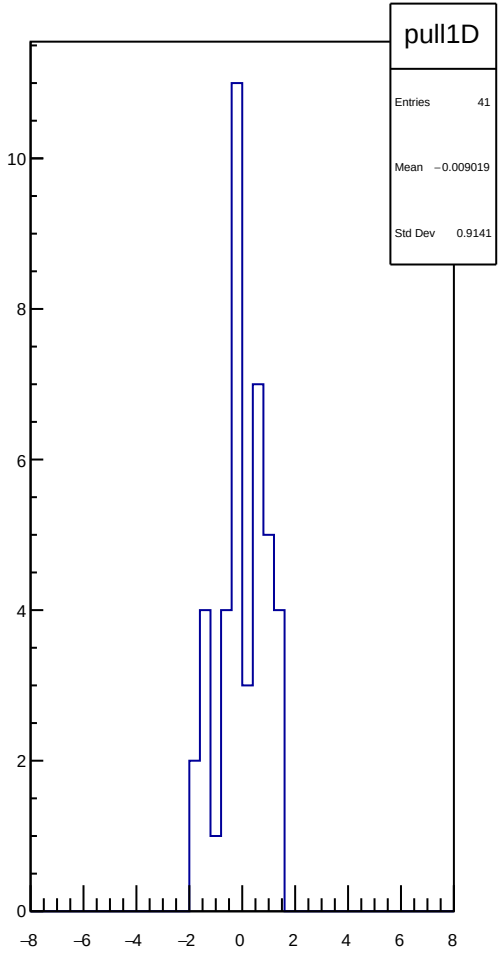

pull1D
Entries 41
Mean −0.009019
Std Dev 0.9141

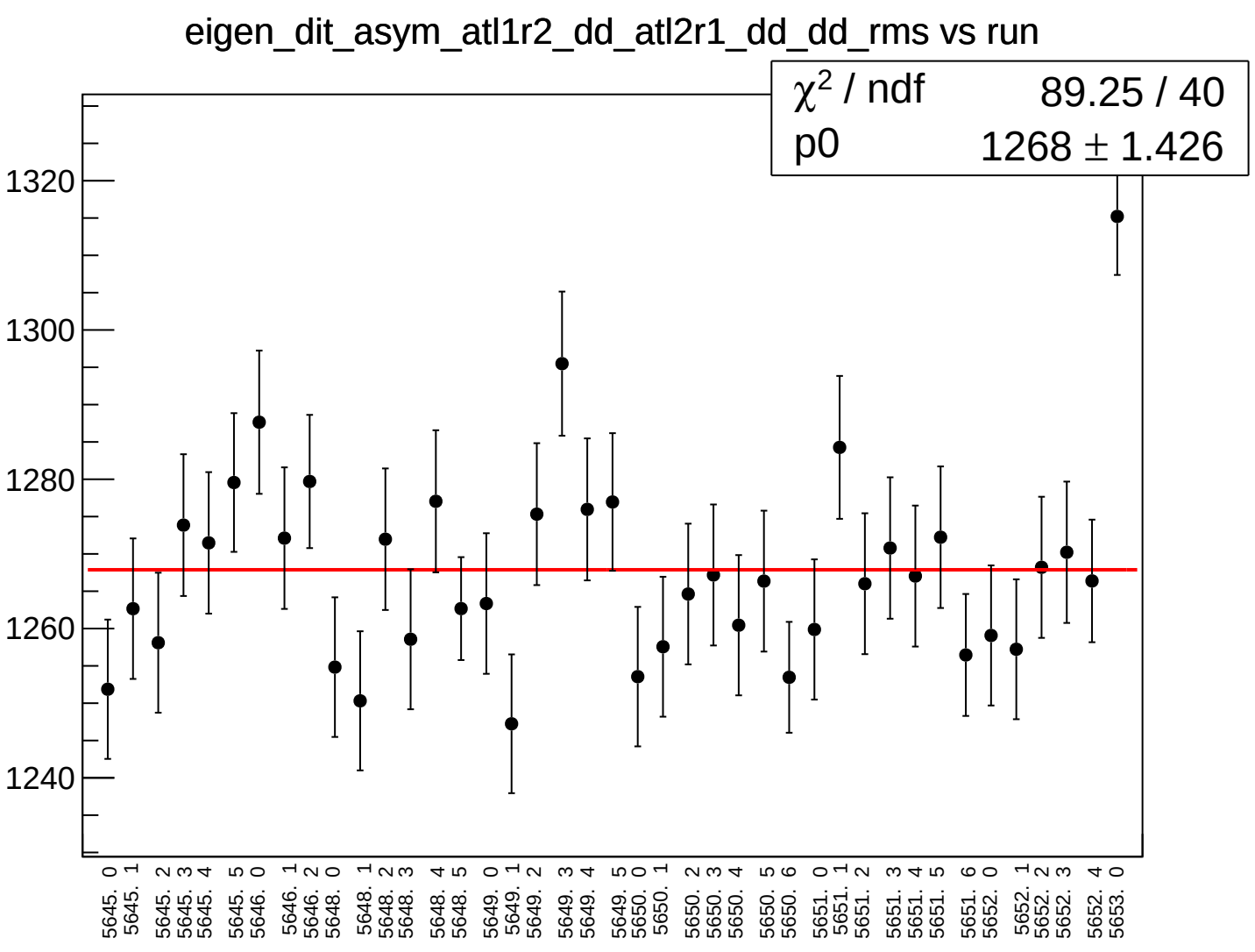

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 89.25 / 40
p0 1268 ± 1.426
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

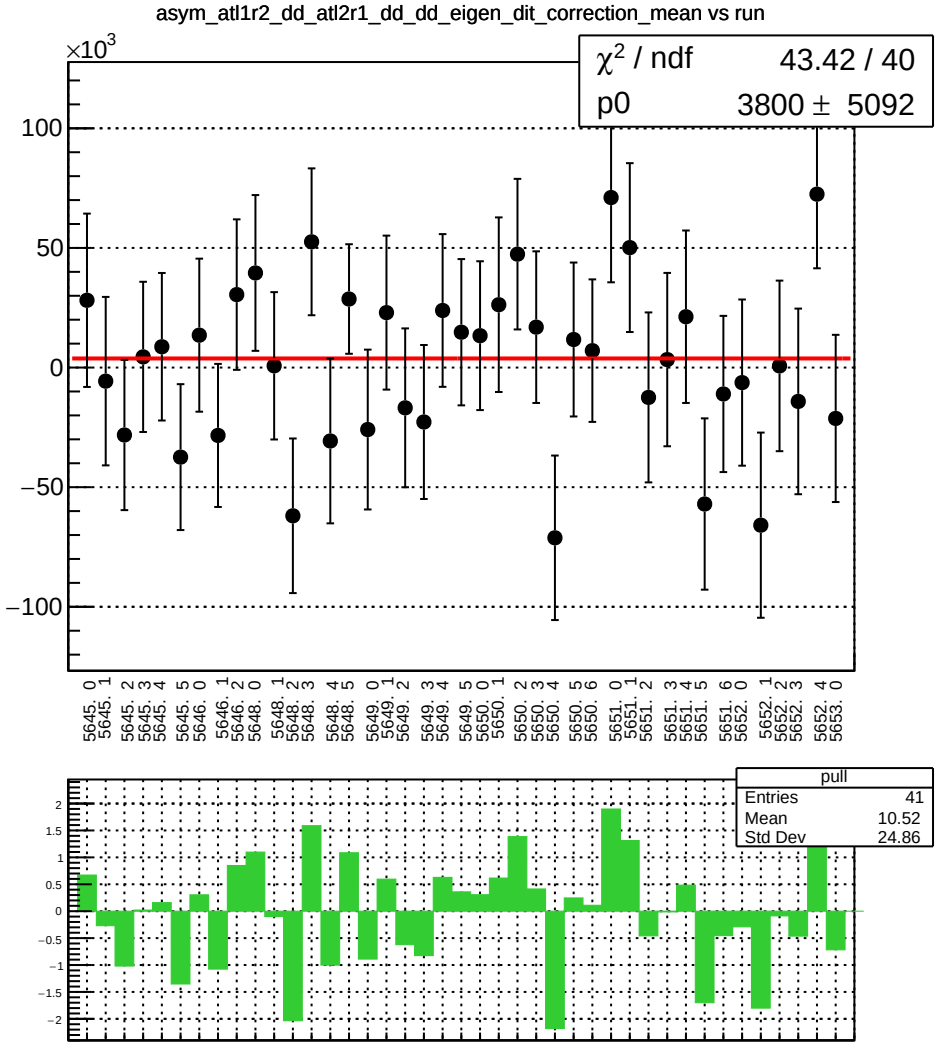

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 43.42 / 40
p0 3800 ± 5092
100
50
0
−50
−100
pull
Entries 41
Mean 10.52
Std Dev 24.86
pull1D
Entries 41
Mean −0.02449
Std Dev 1.029

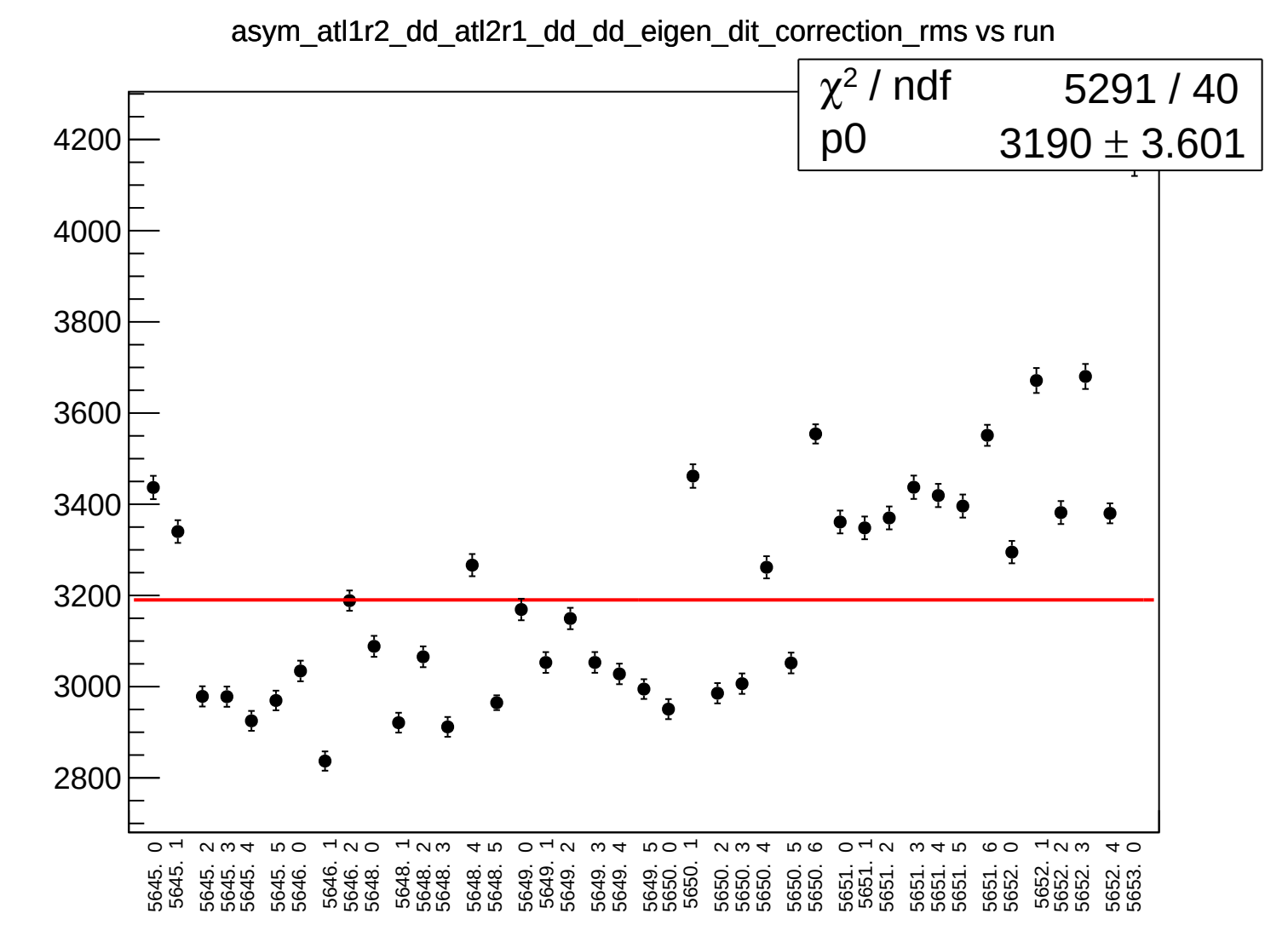

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5291 / 40
p0 3190 ± 3.601
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

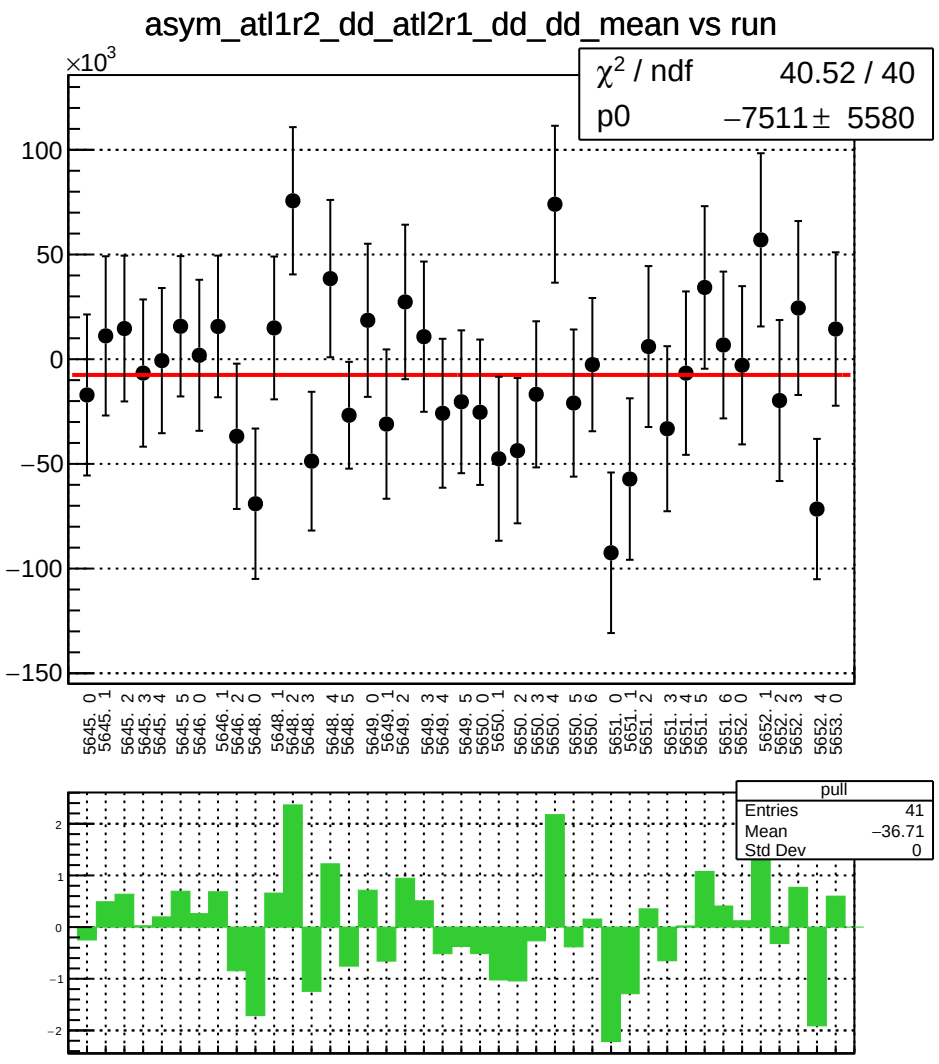

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 34.27 / 40
p0 −3907 ± 2017
pull
Entries 41
Mean 262.7
Std Dev 0

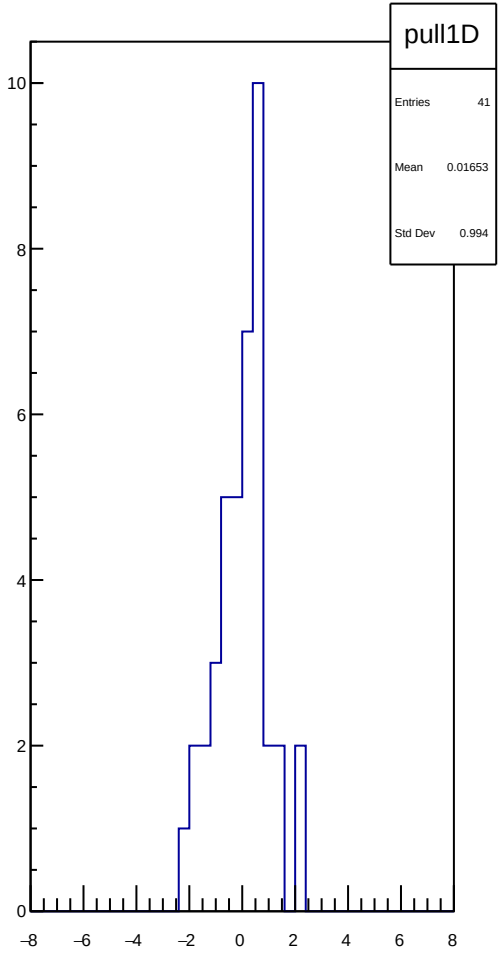

pull1D
Entries 41
Mean −0.009019
Std Dev 0.9141

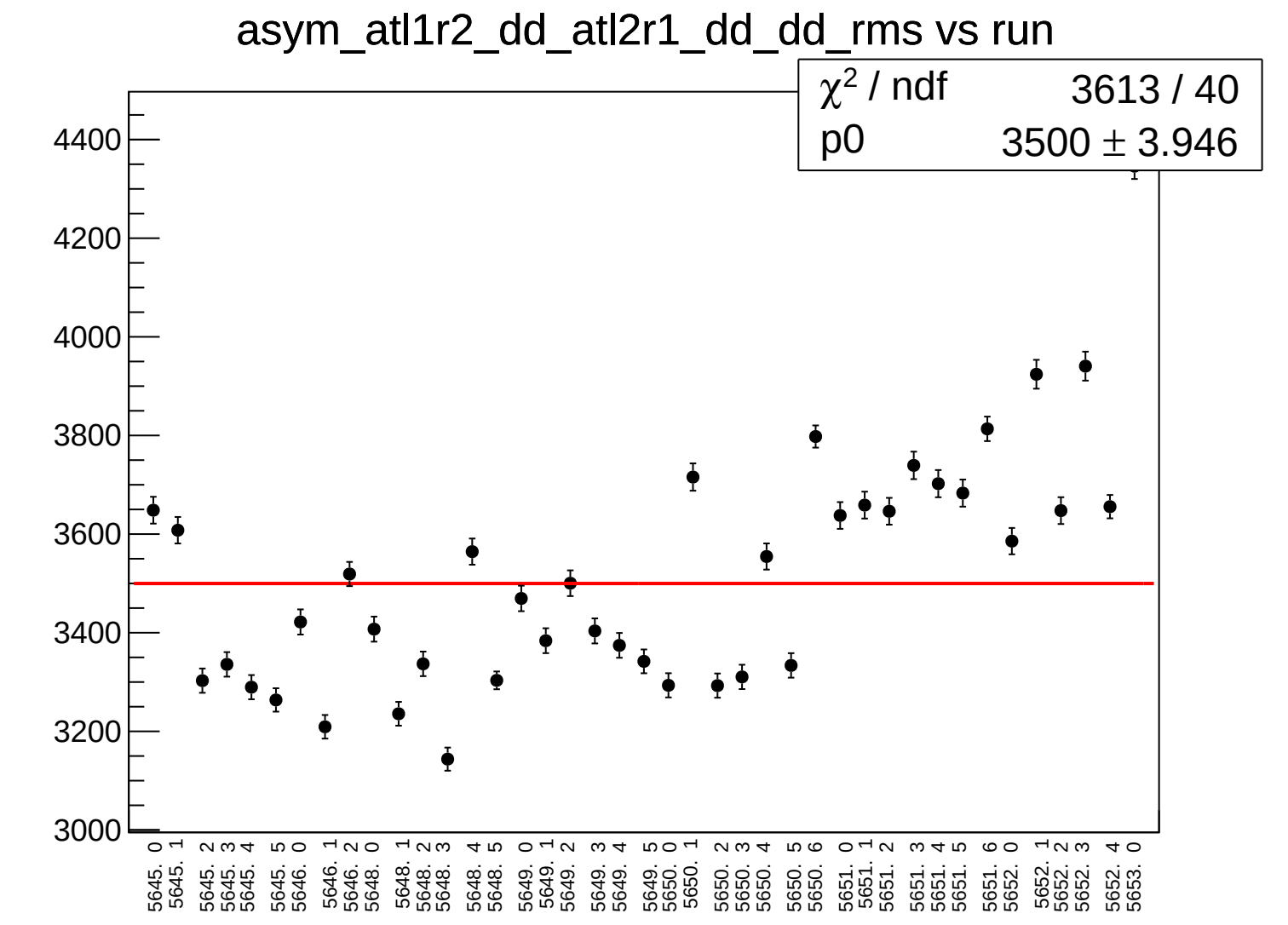

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 89.25 / 40
p0 1268 ± 1.426
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

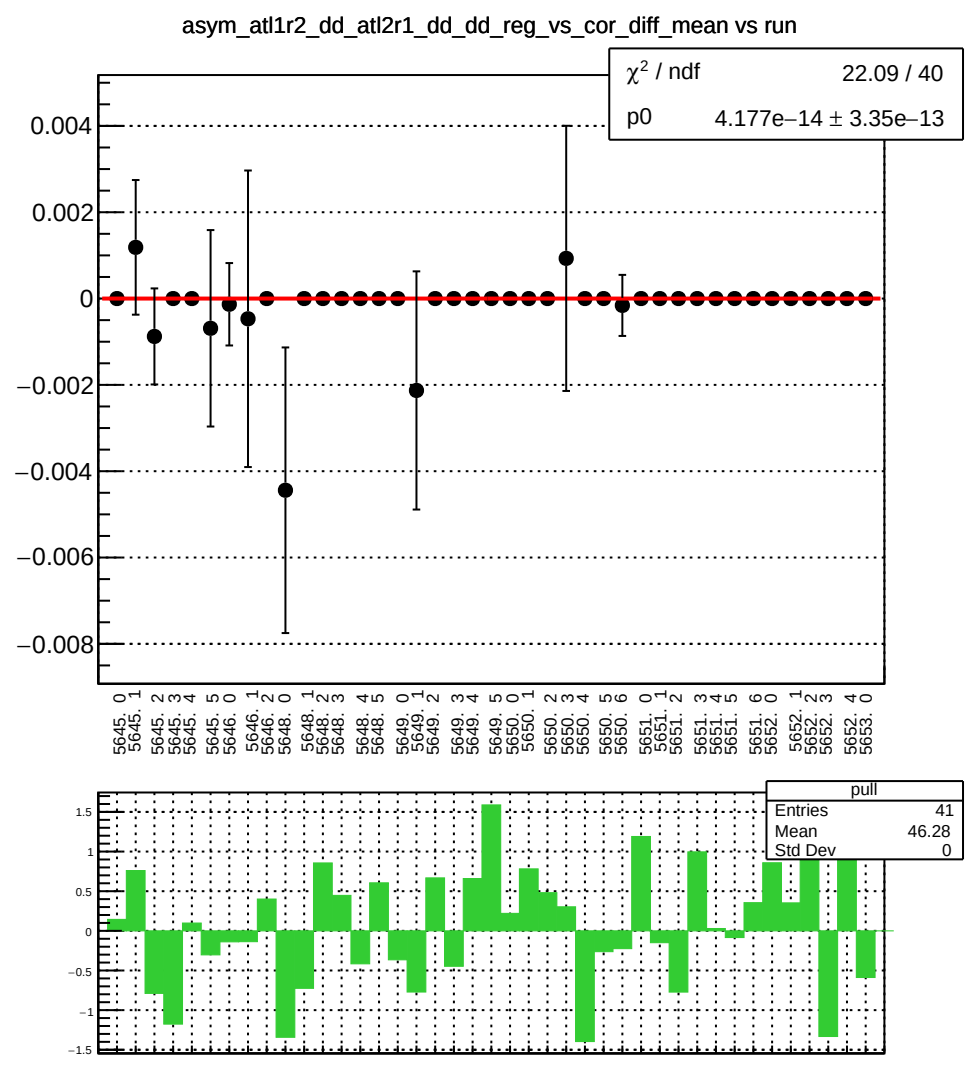

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 43.42 / 40
p0 3800 ± 5092
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.52
Std Dev 24.86
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02449
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

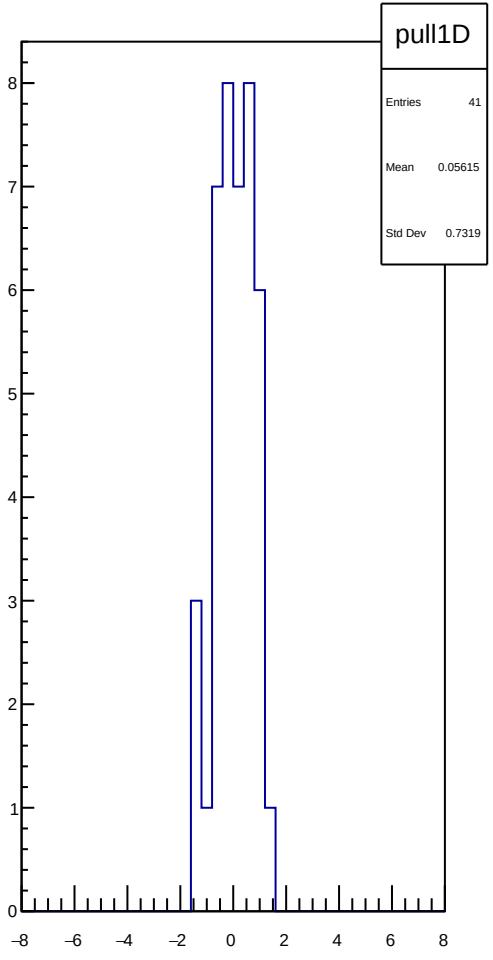

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5291 / 40
p0 3190 ± 3.601
4200
4000
3800
3600
3400
3200
3000
2800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

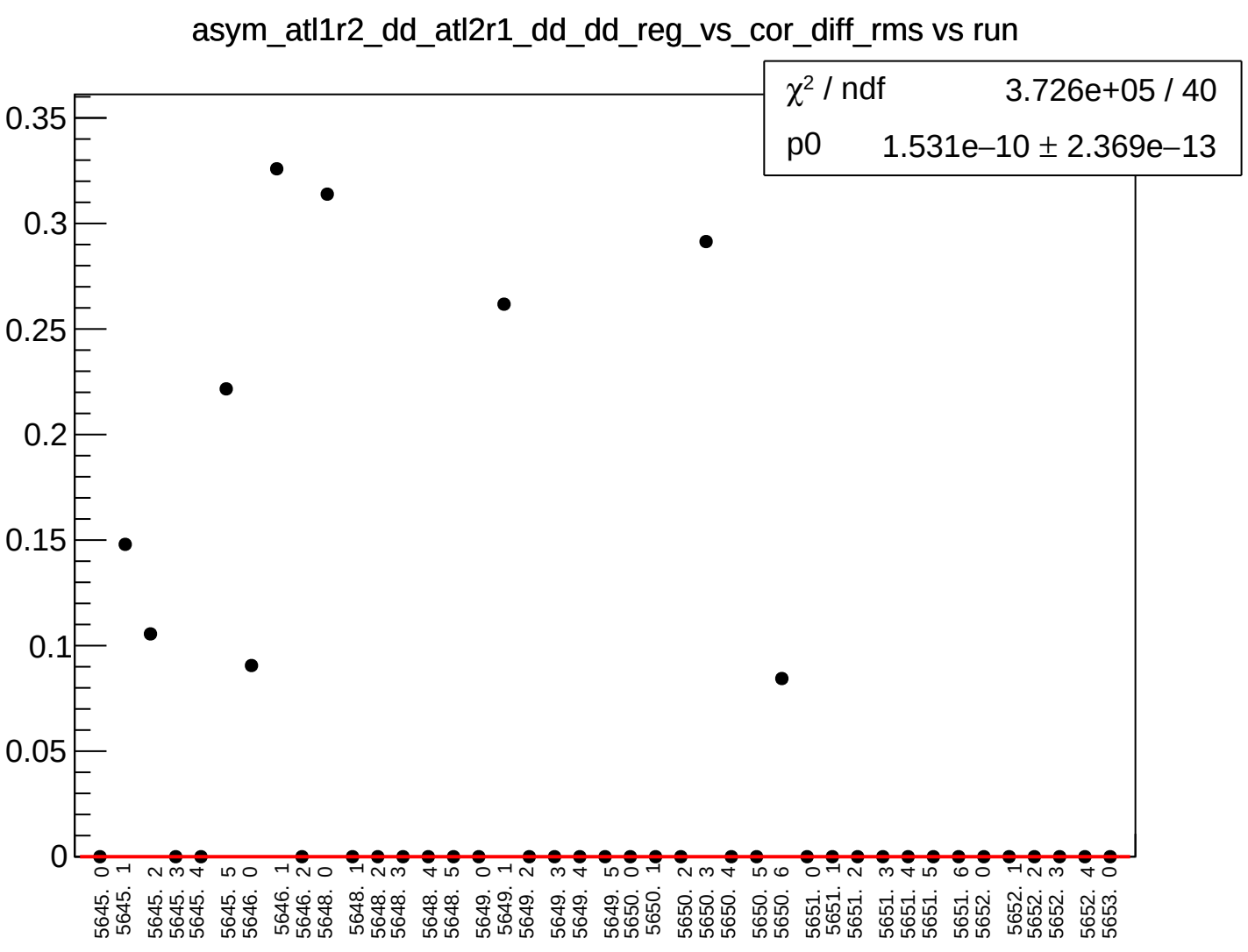

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 40.52 / 40
p0 −7511 ± 5580
100
50
0
−50
−100
−150
pull
Entries 41
Mean −36.71
Std Dev 0
2
1
0
−1
−2

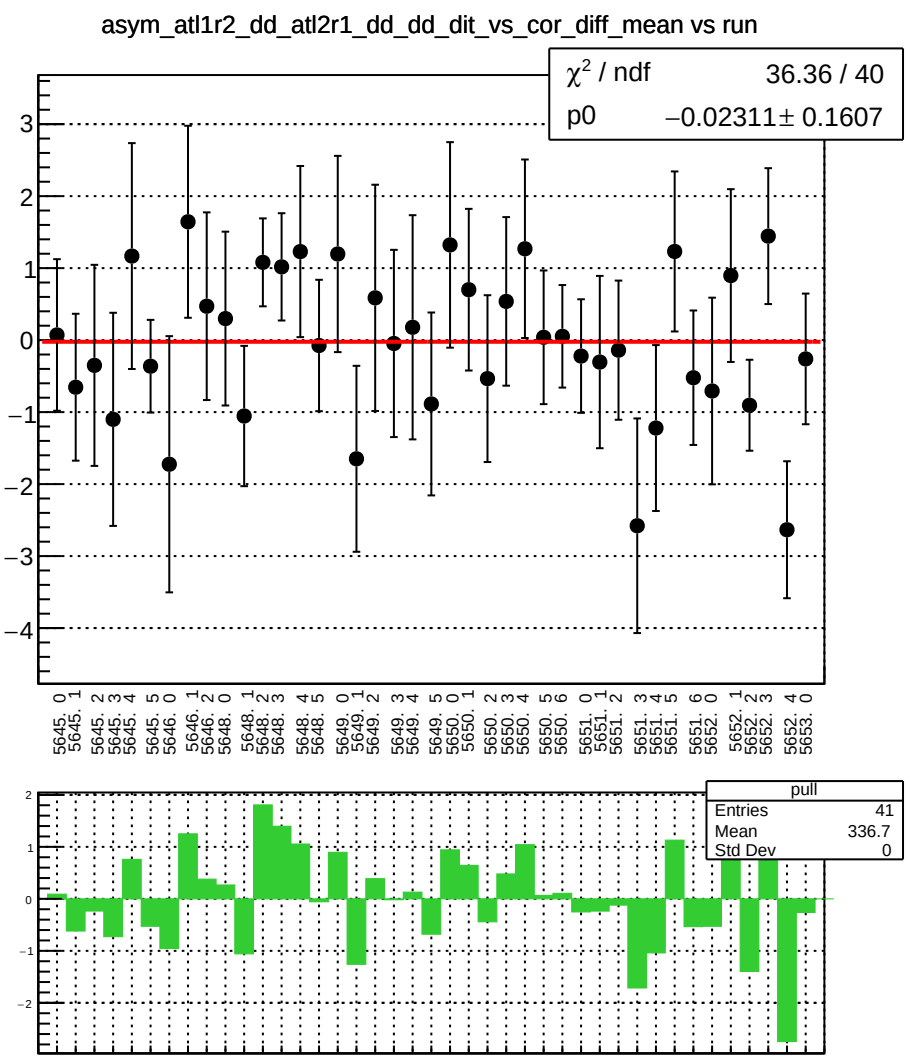

pull1D
Entries 41
Mean 0.01653
Std Dev 0.994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

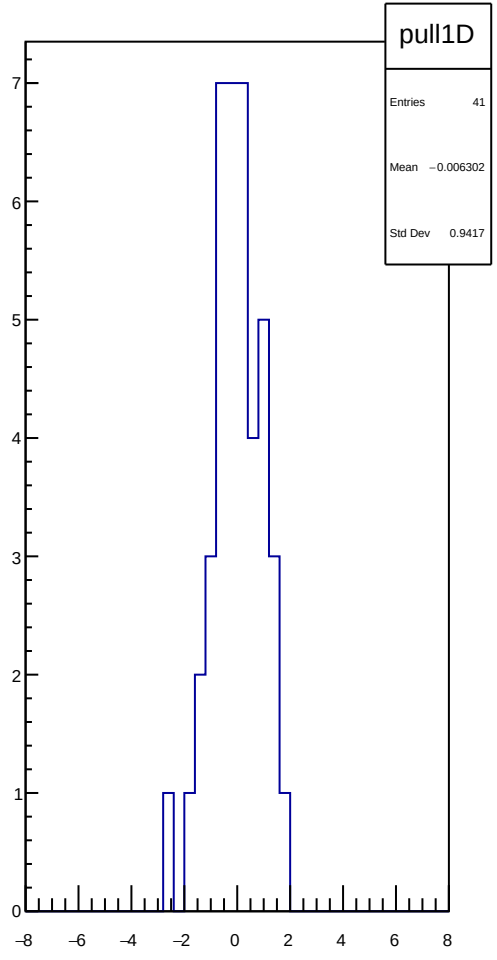

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3613 / 40
p0 3500 ± 3.946
4400
4200
4000
3800
3600
3400
3200
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

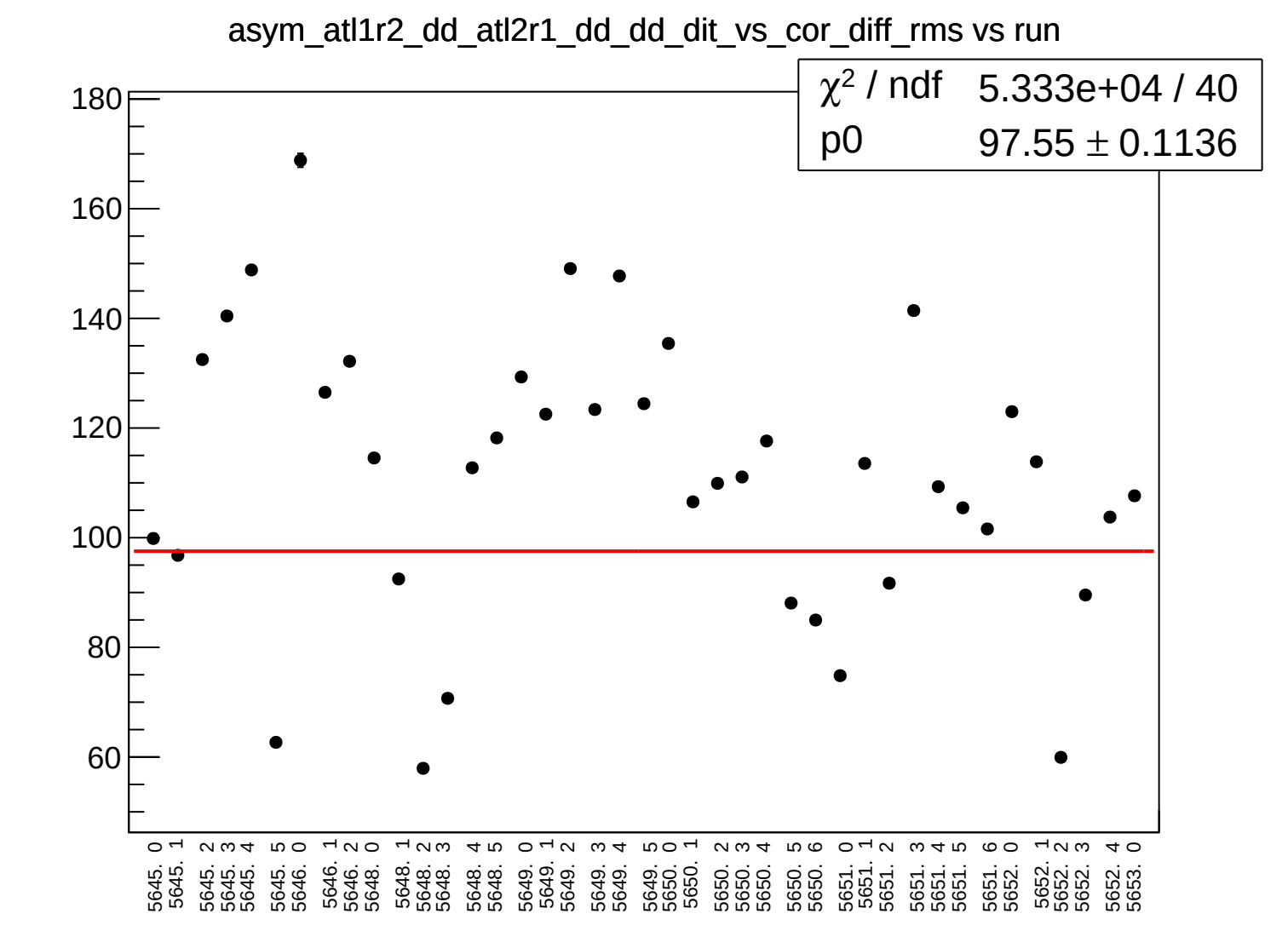

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.09 / 40
p0 4.177e−14 ± 3.35e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 46.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

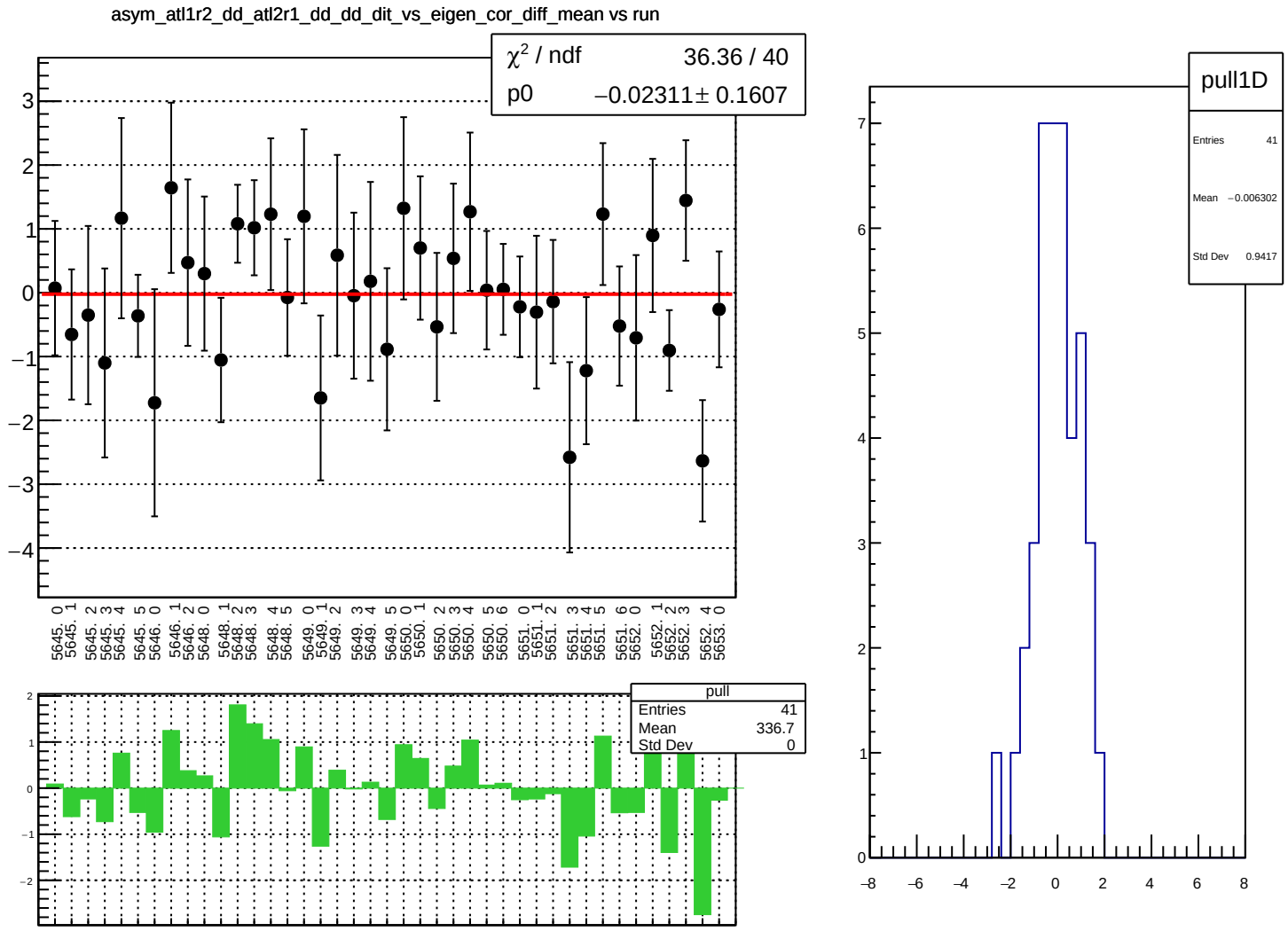

pull1D
Entries 41
Mean 0.05615
Std Dev 0.7319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

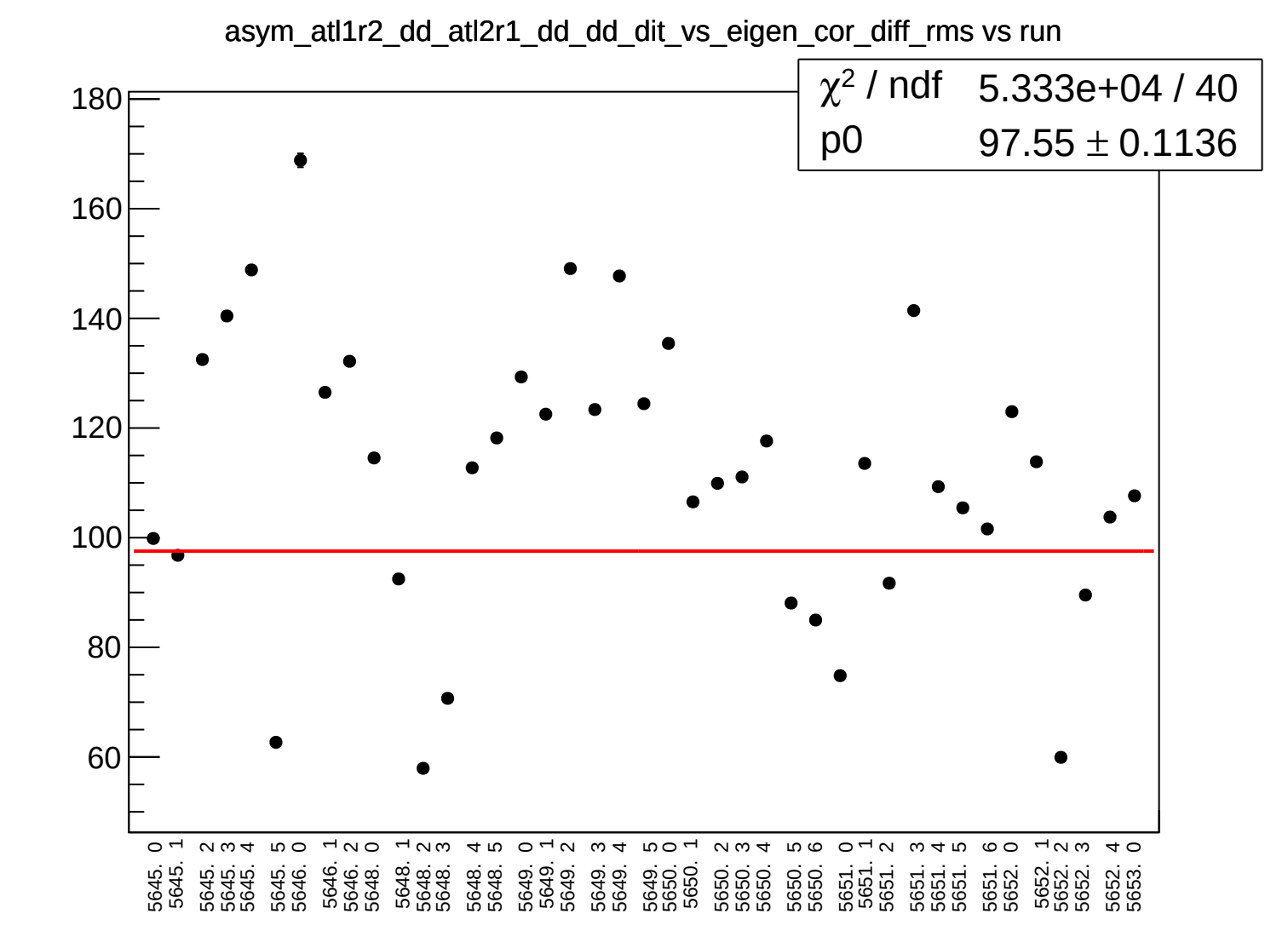

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.726e+05 / 40
p0 1.531e−10 ± 2.369e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

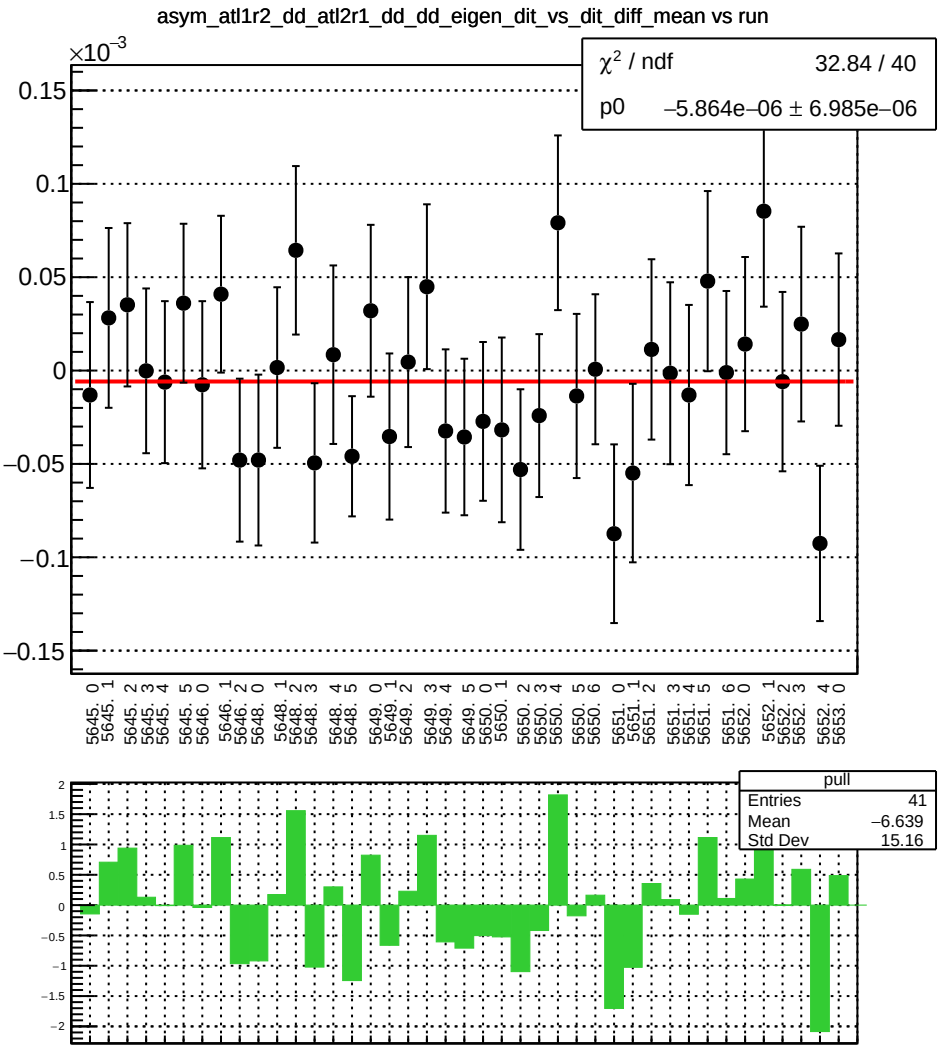

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.02311 ± 0.1607
pull
Entries 41
Mean 336.7
Std Dev 0

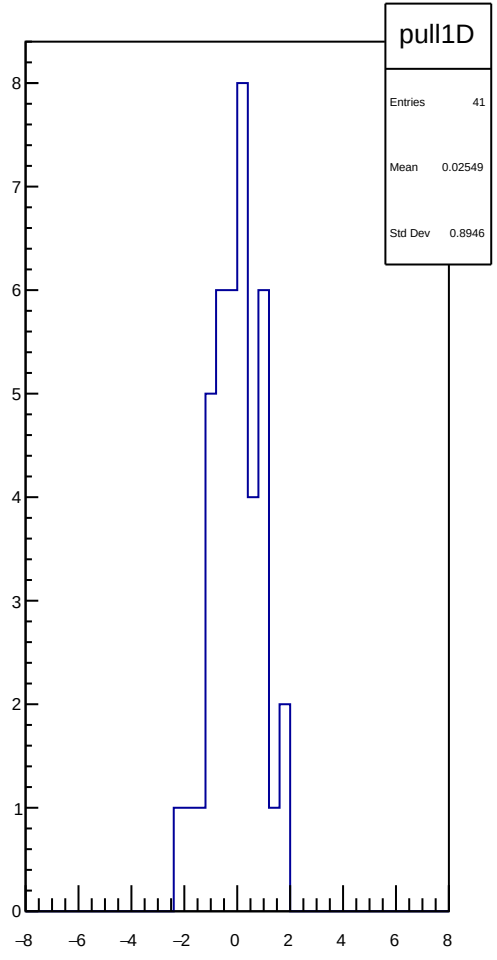

pull1D
Entries 41
Mean −0.006302
Std Dev 0.9417

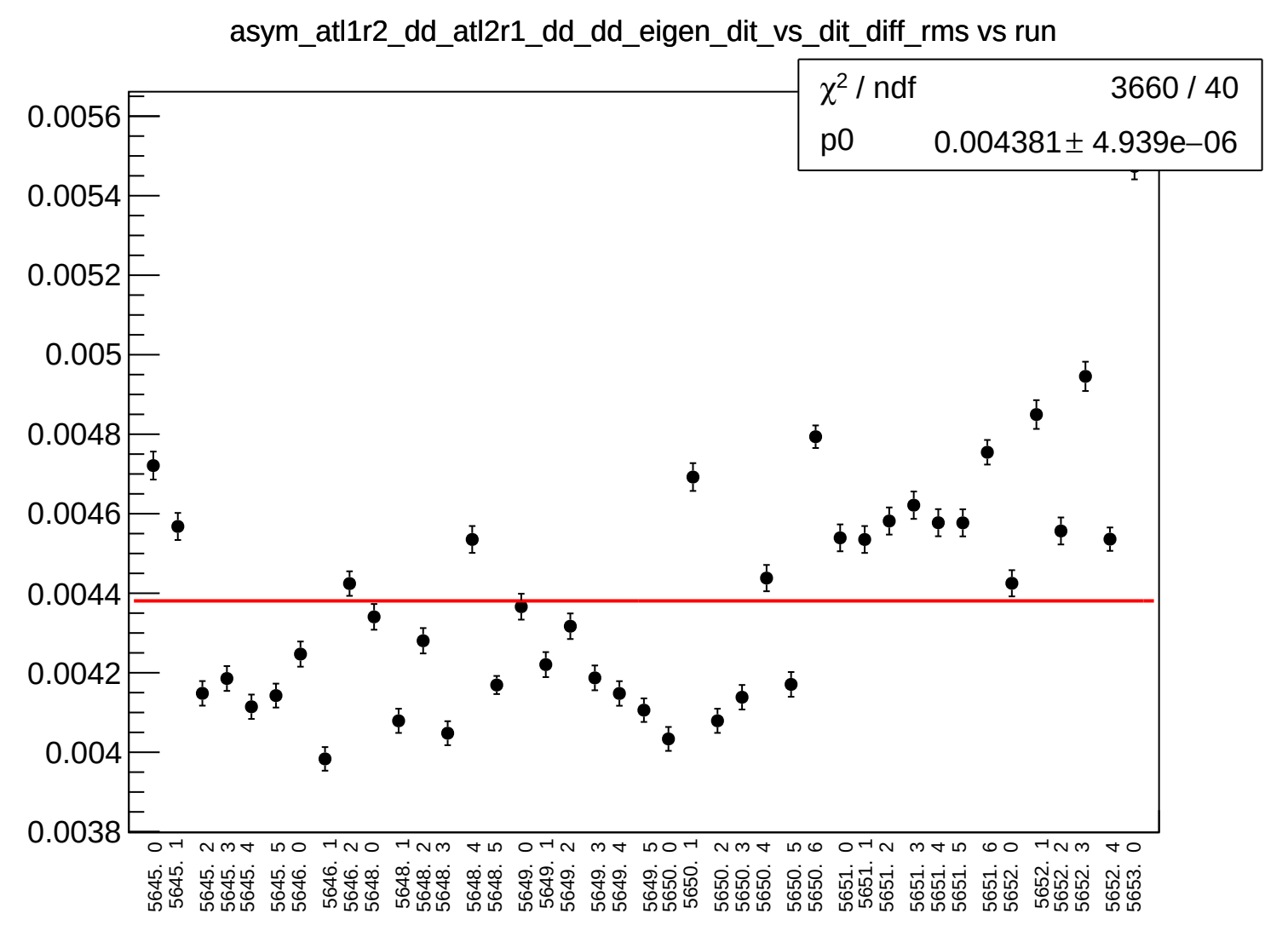

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

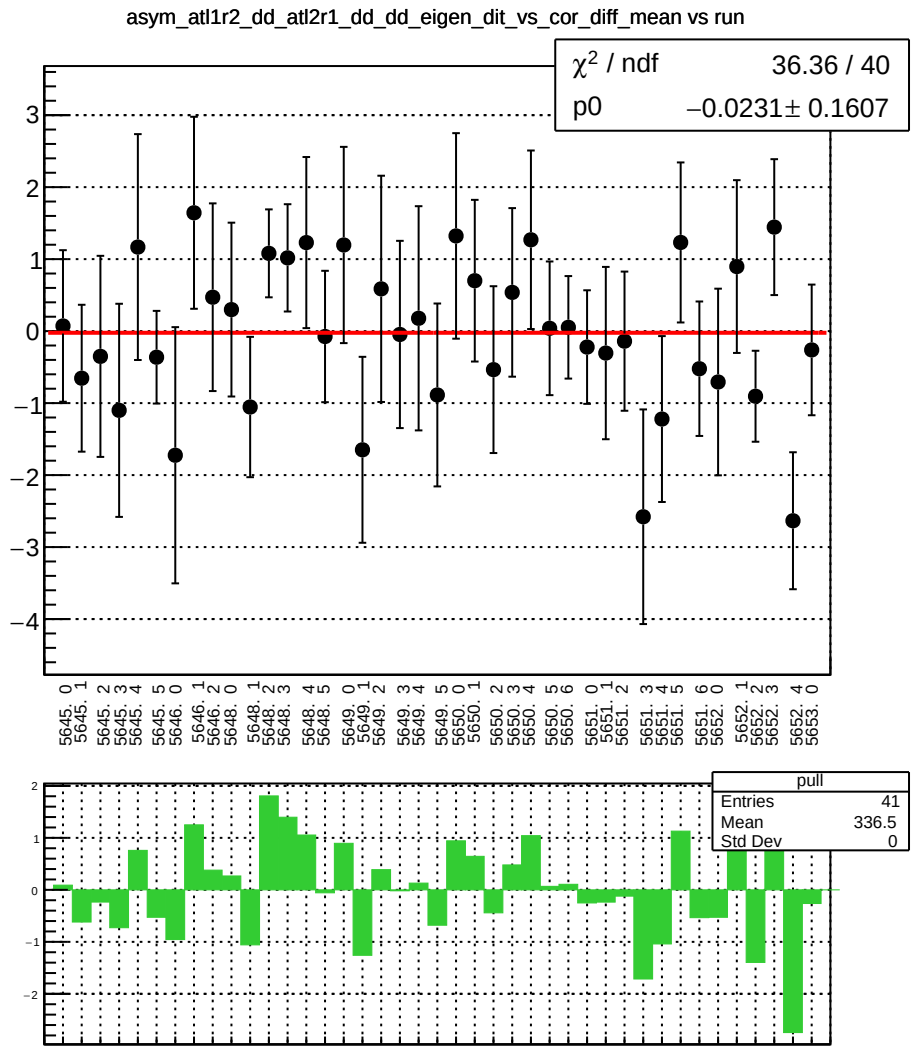

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.02311 ± 0.1607
pull
Entries 41
Mean 336.7
Std Dev 0
pull1D
Entries 41
Mean −0.006302
Std Dev 0.9417

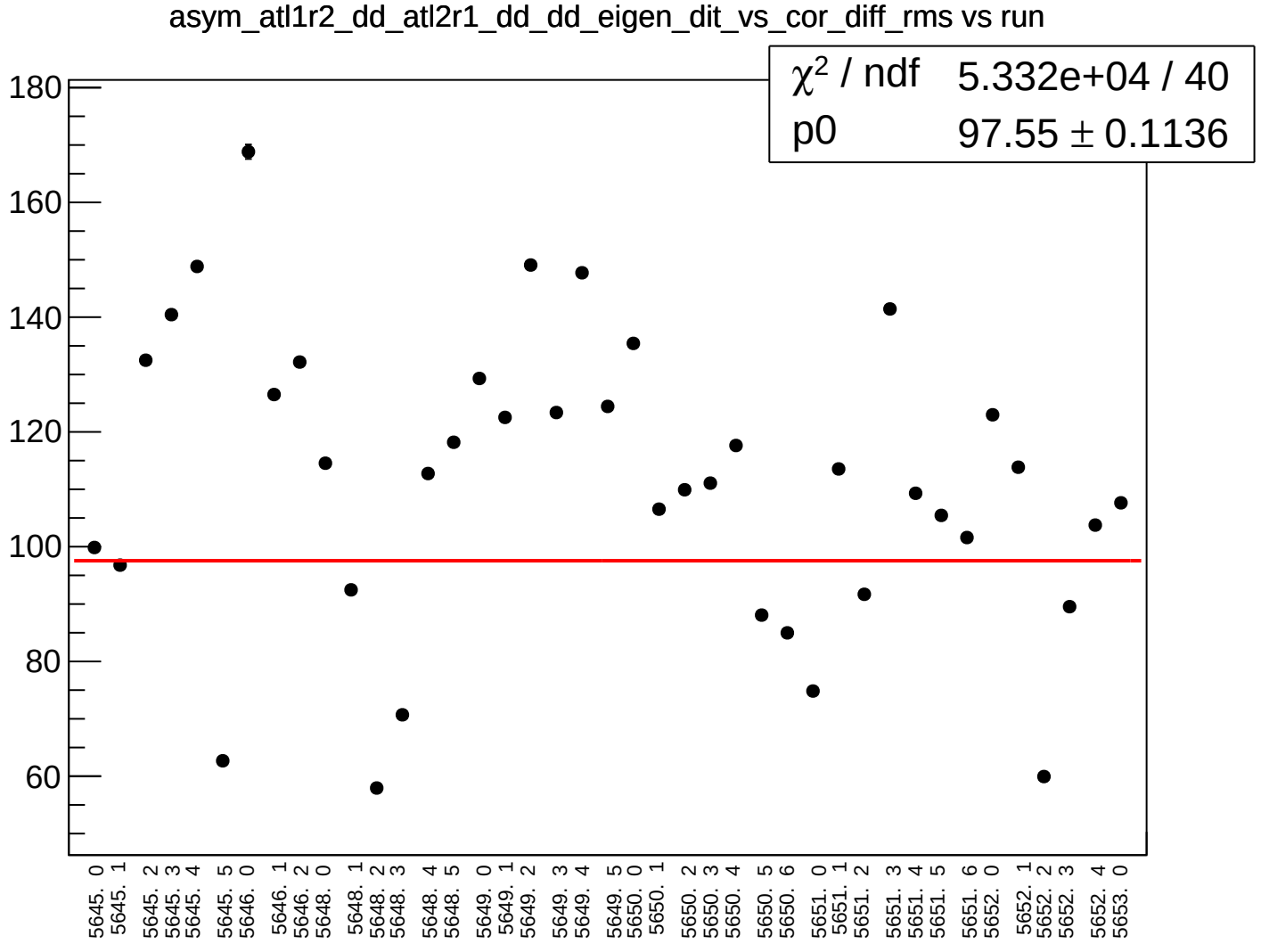

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.333e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

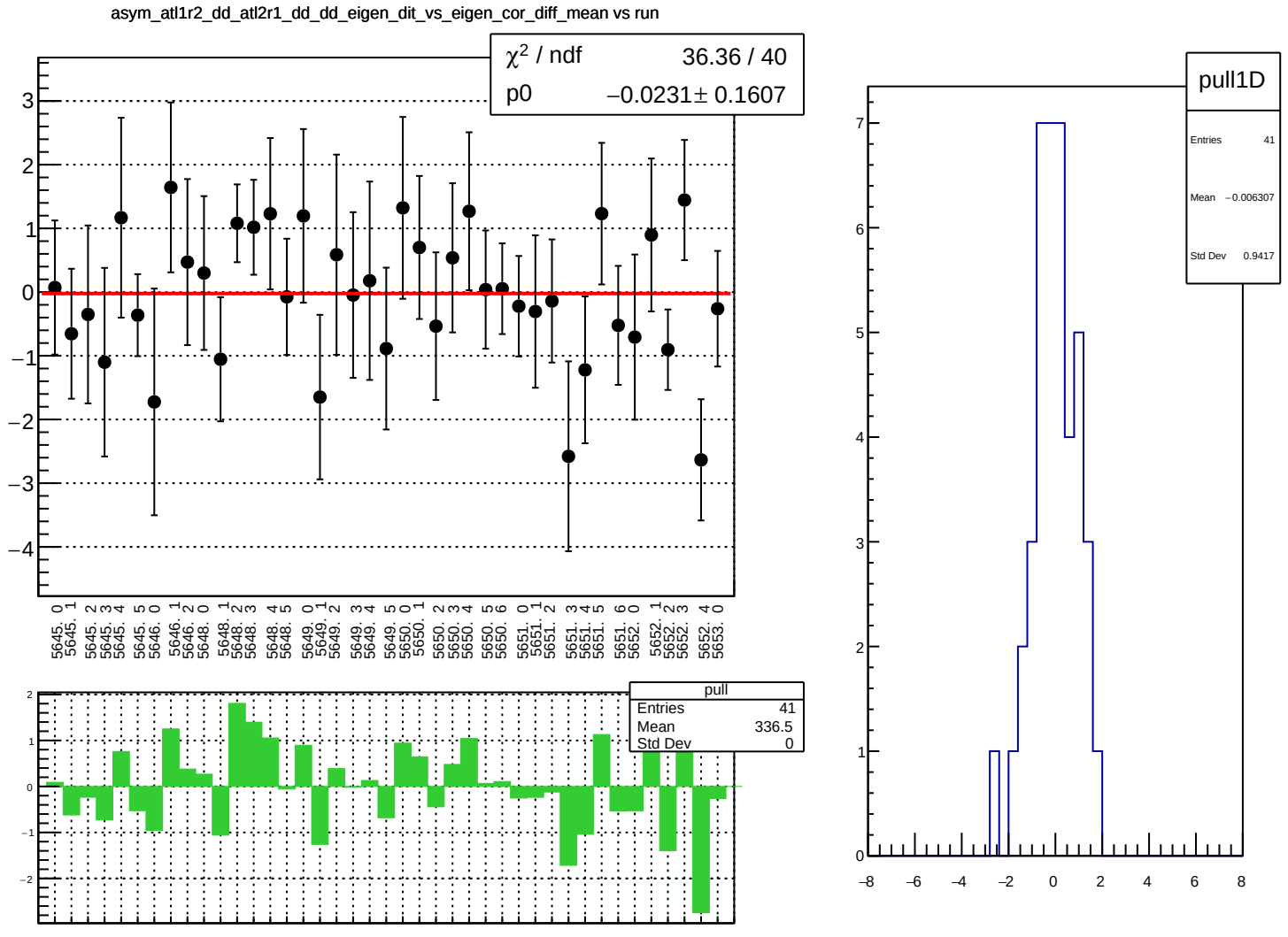

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.84 / 40
p0 −5.864e−06 ± 6.985e−06
pull
Entries 41
Mean −6.639
Std Dev 15.16

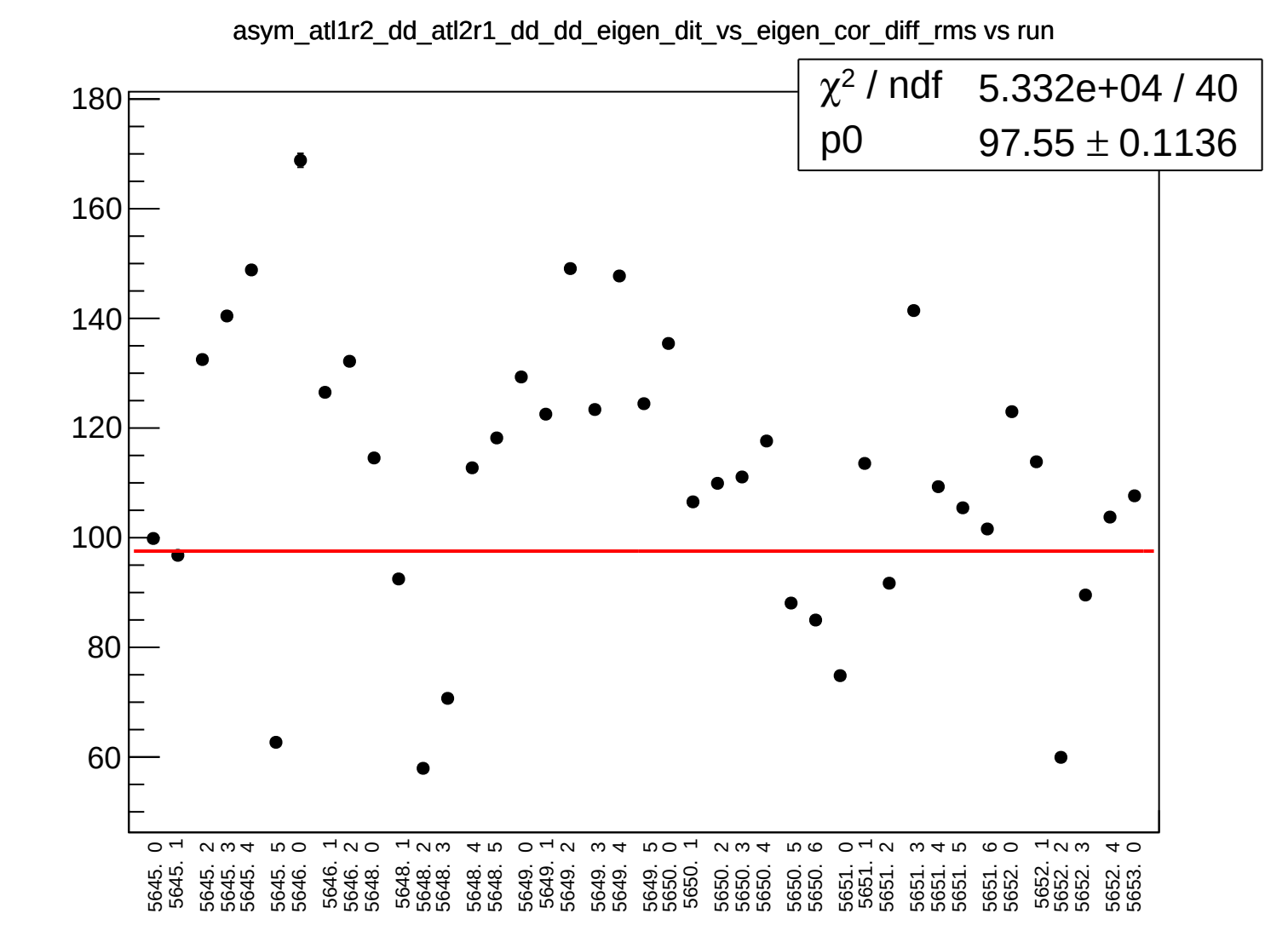

pull1D
Entries 41
Mean 0.02549
Std Dev 0.8946

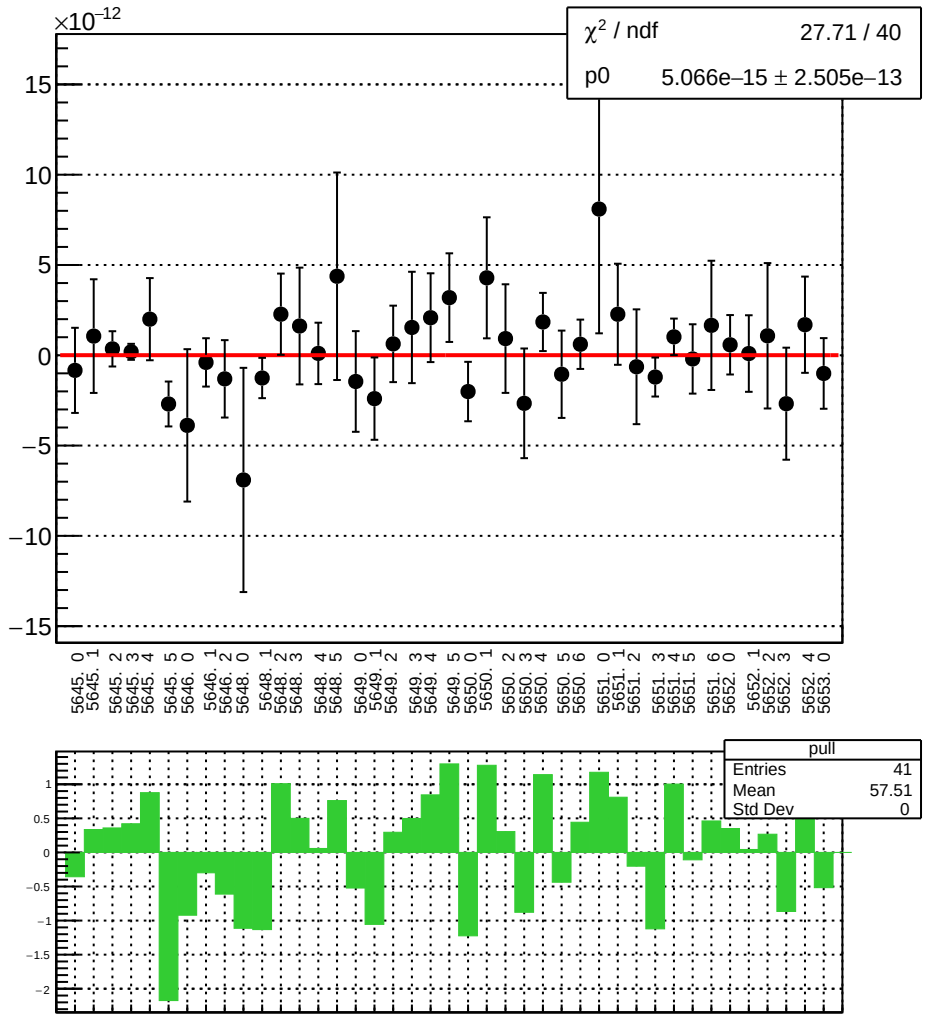

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3660 / 40
p0 0.004381 ± 4.939e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

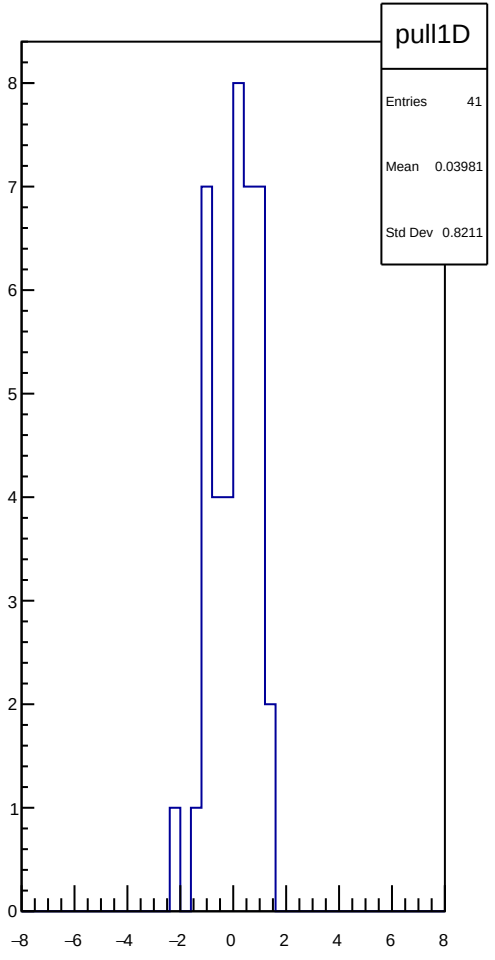

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.0231± 0.1607
pull
Entries 41
Mean 336.5
Std Dev 0
pull1D
Entries 41
Mean −0.006307
Std Dev 0.9417

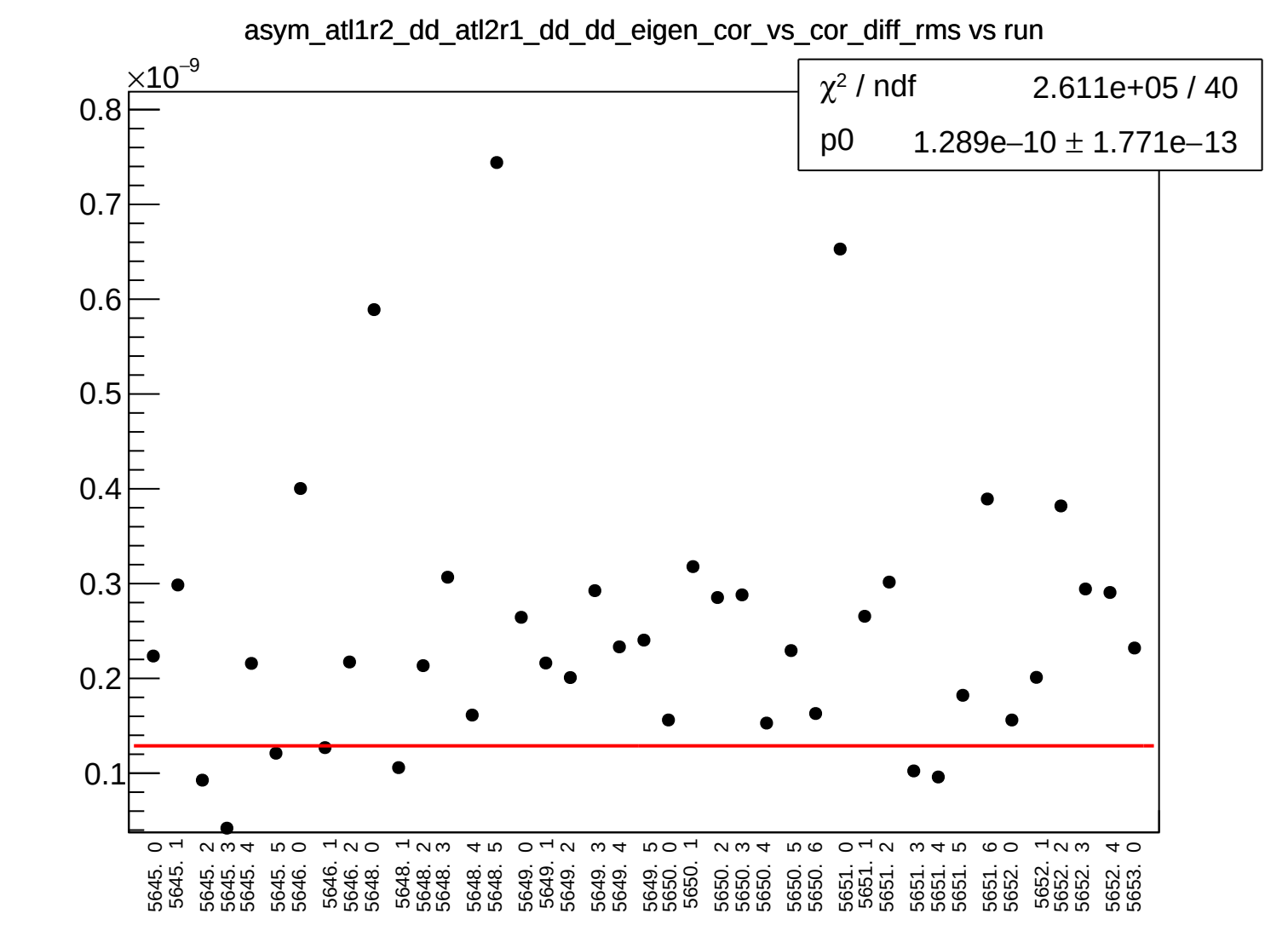

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.332e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

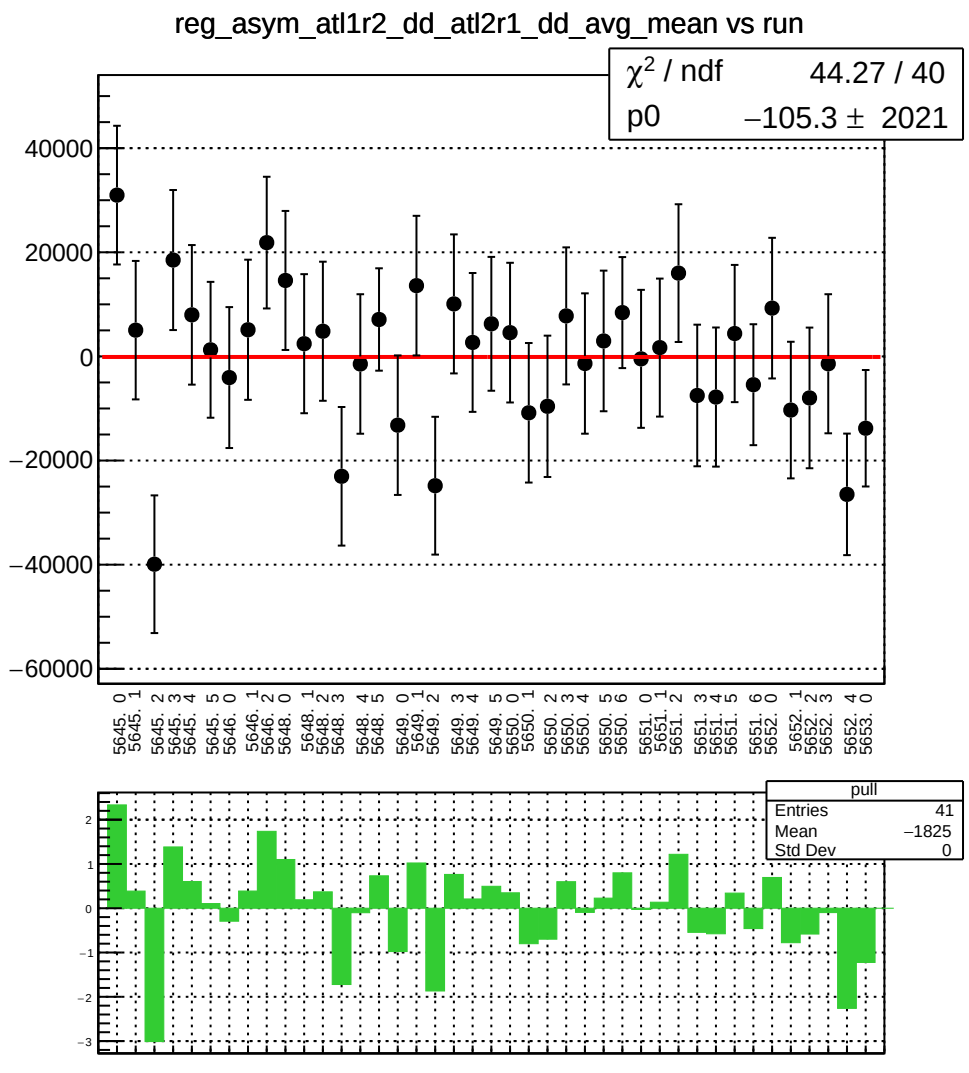

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.36 / 40
p0 −0.0231± 0.1607
pull
Entries 41
Mean 336.5
Std Dev 0
pull1D
Entries 41
Mean −0.006307
Std Dev 0.9417

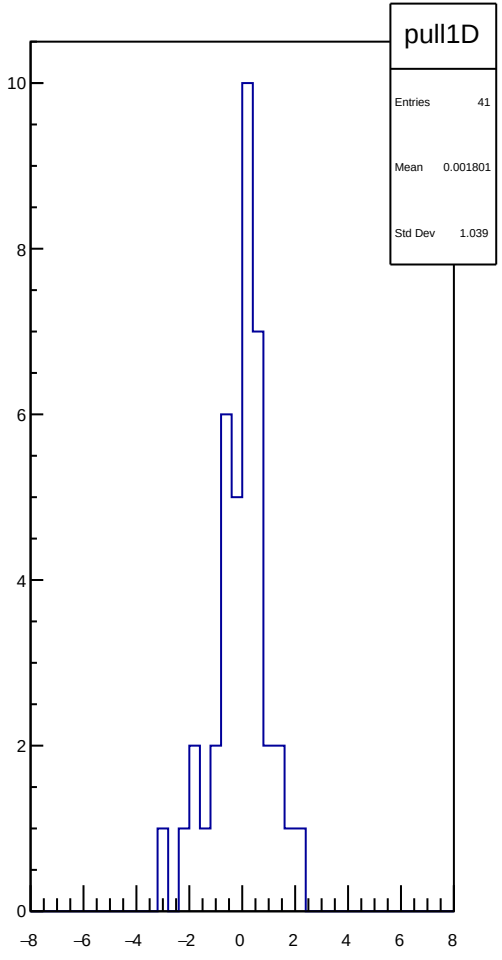

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.332e+04 / 40
p0 97.55 ± 0.1136
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

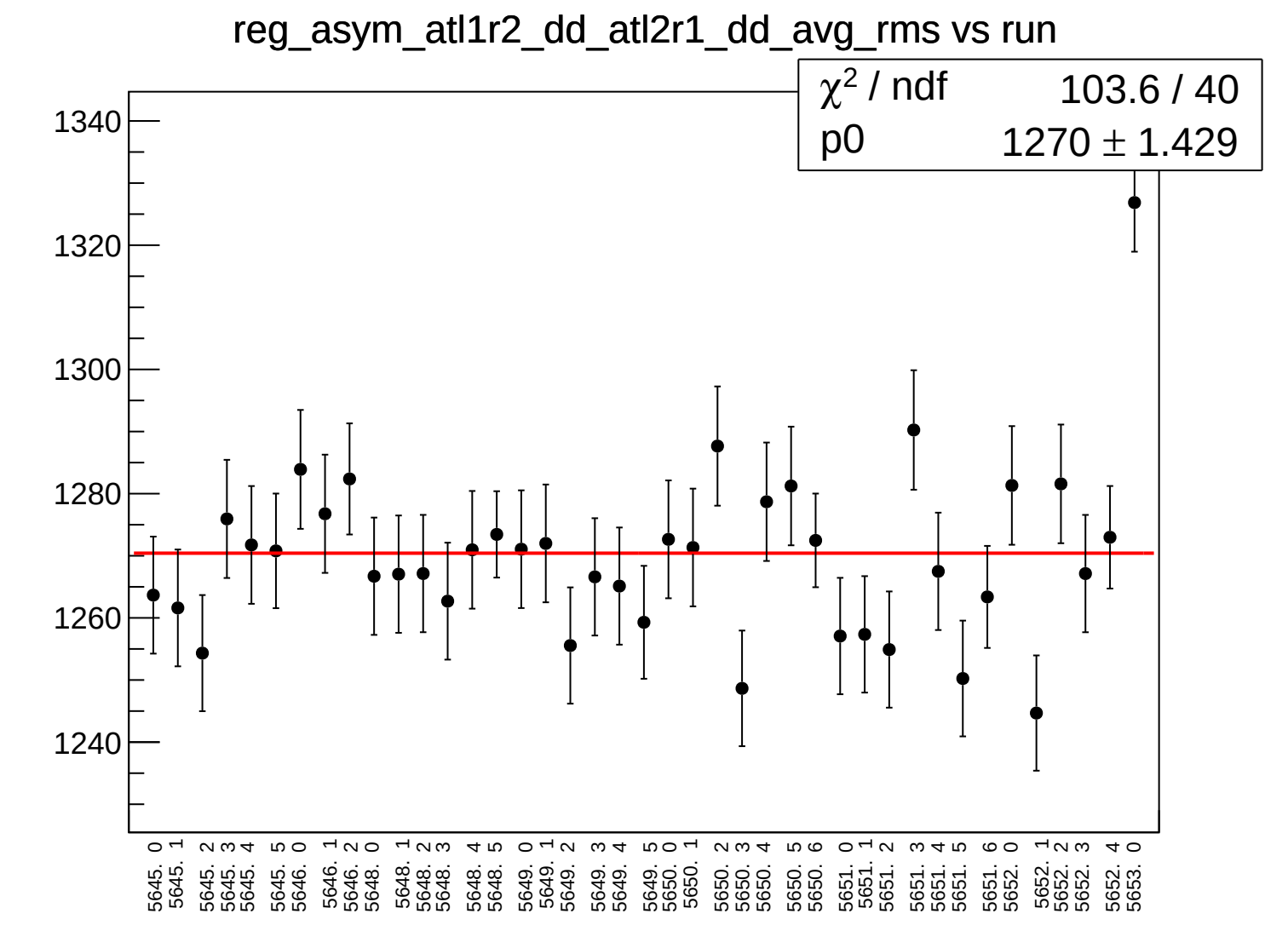

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 27.71 / 40
p0 5.066e−15 ± 2.505e−13
15
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 57.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

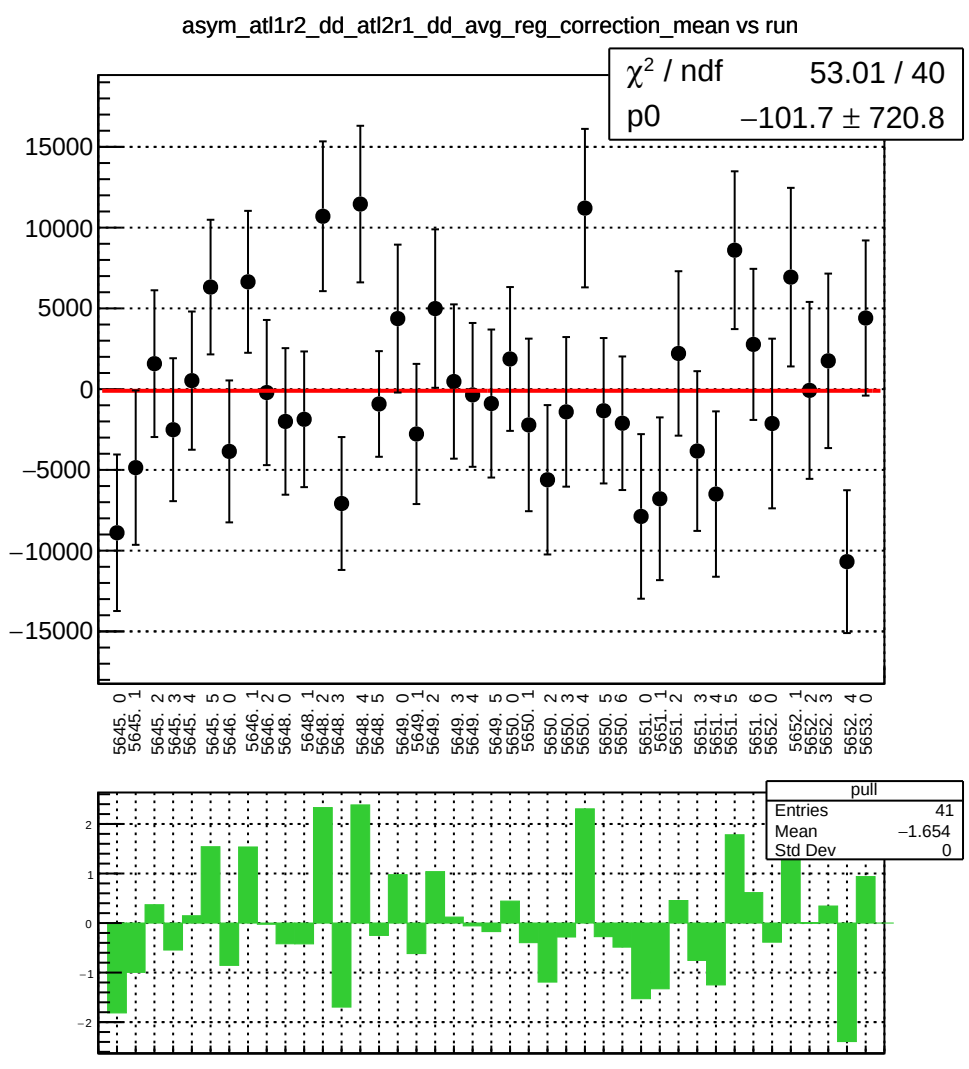

pull1D
Entries 41
Mean 0.03981
Std Dev 0.8211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

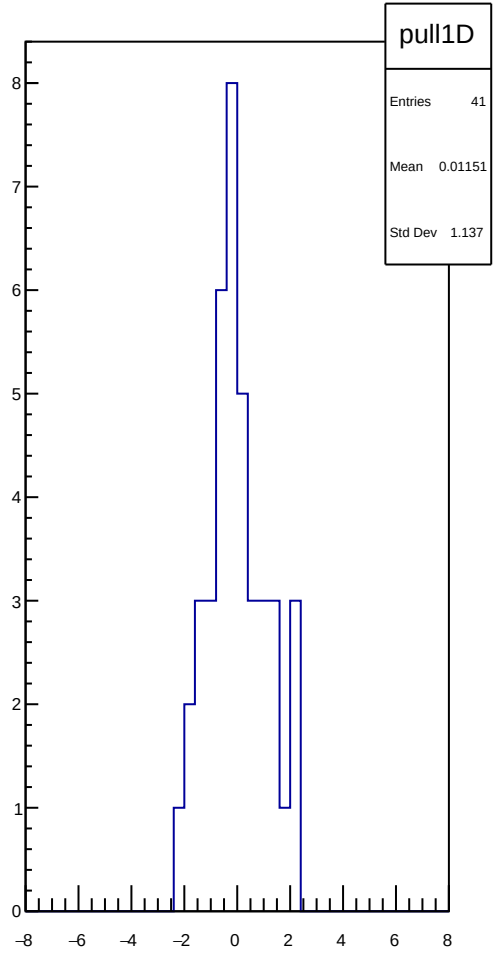

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.611e+05 / 40
p0 1.289e−10 ± 1.771e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

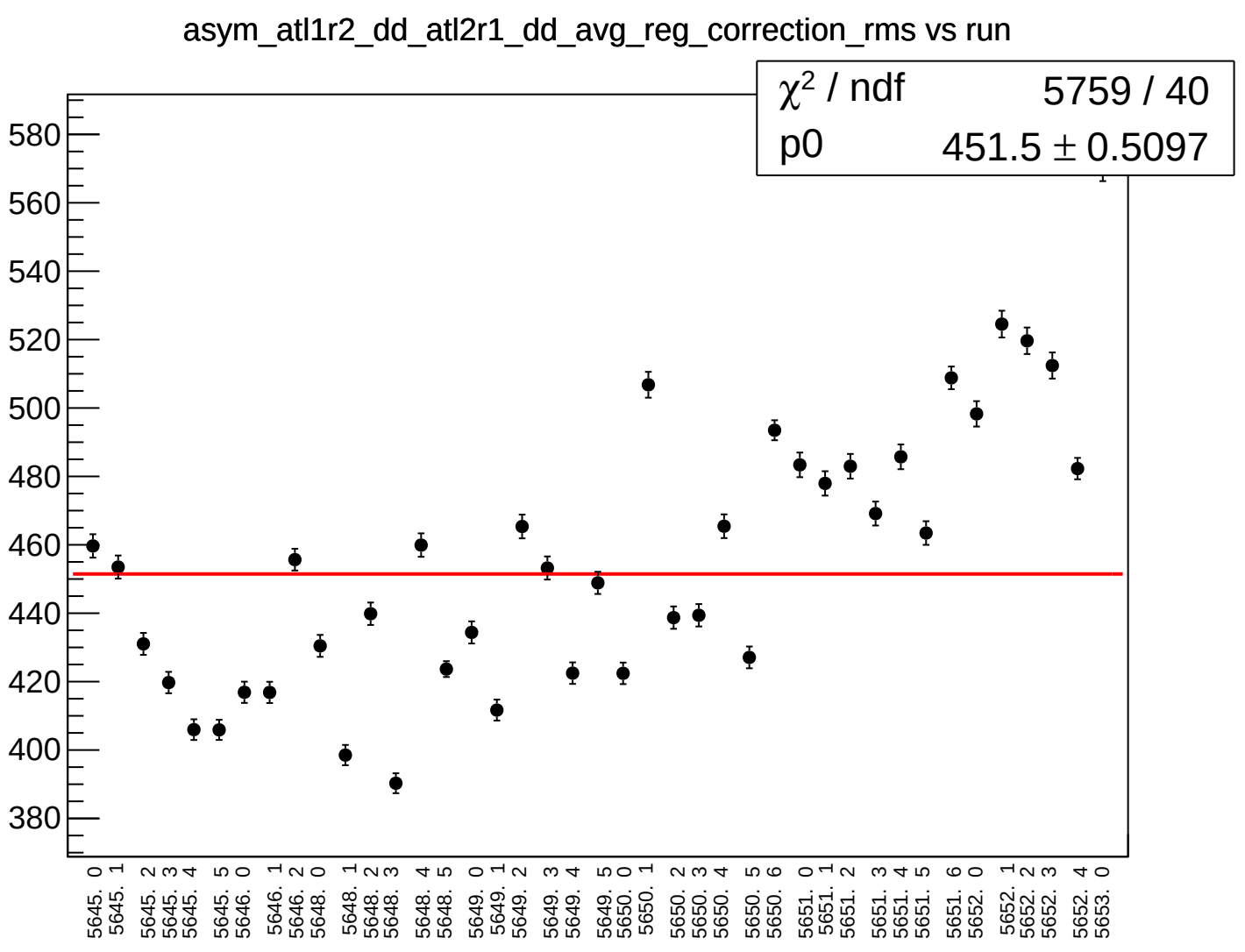

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 44.27 / 40
p0 −105.3 ± 2021
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1825
Std Dev 0
2
1
0
−1
−2
−3

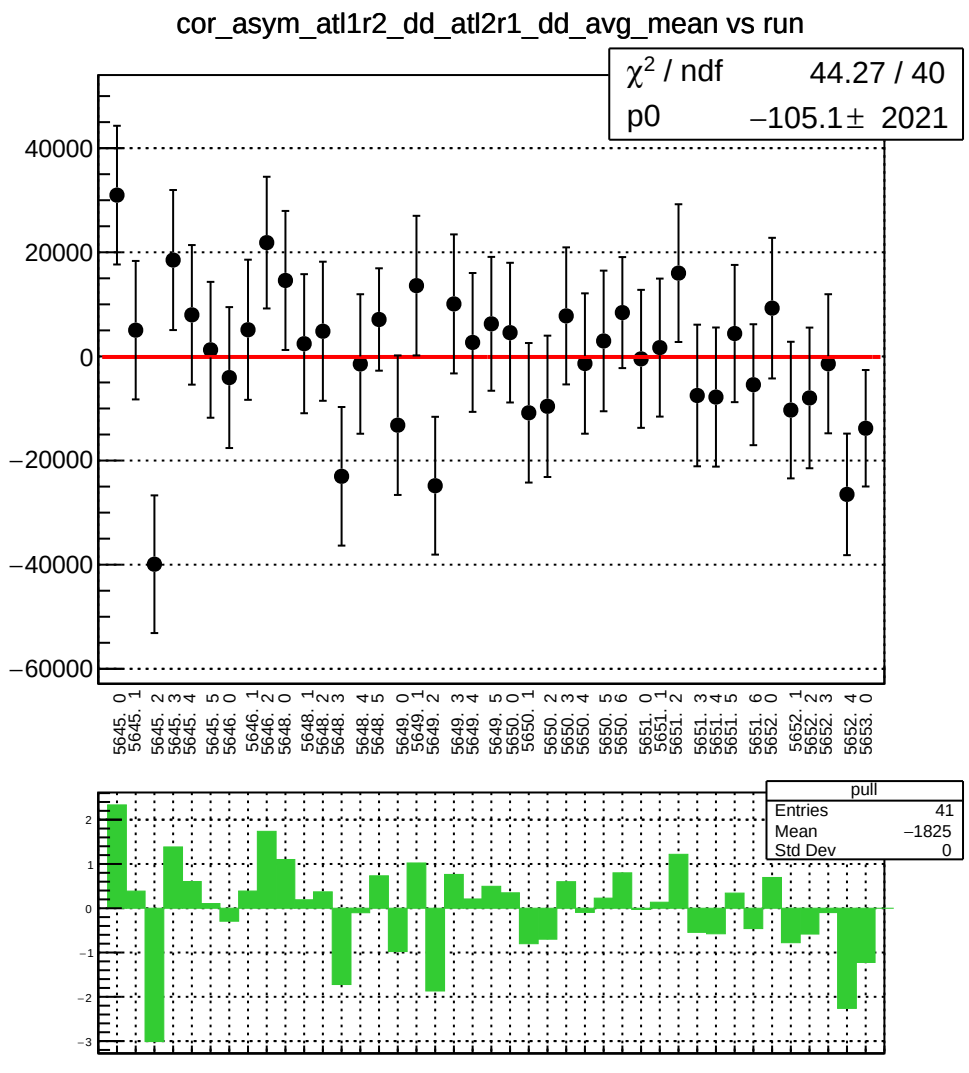

pull1D
Entries 41
Mean 0.001801
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

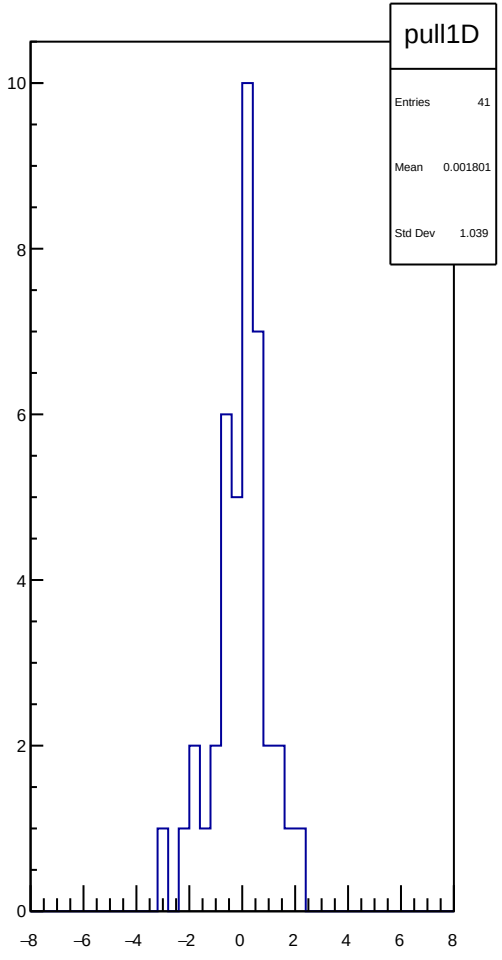

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 103.6 / 40
p0 1270 ± 1.429
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

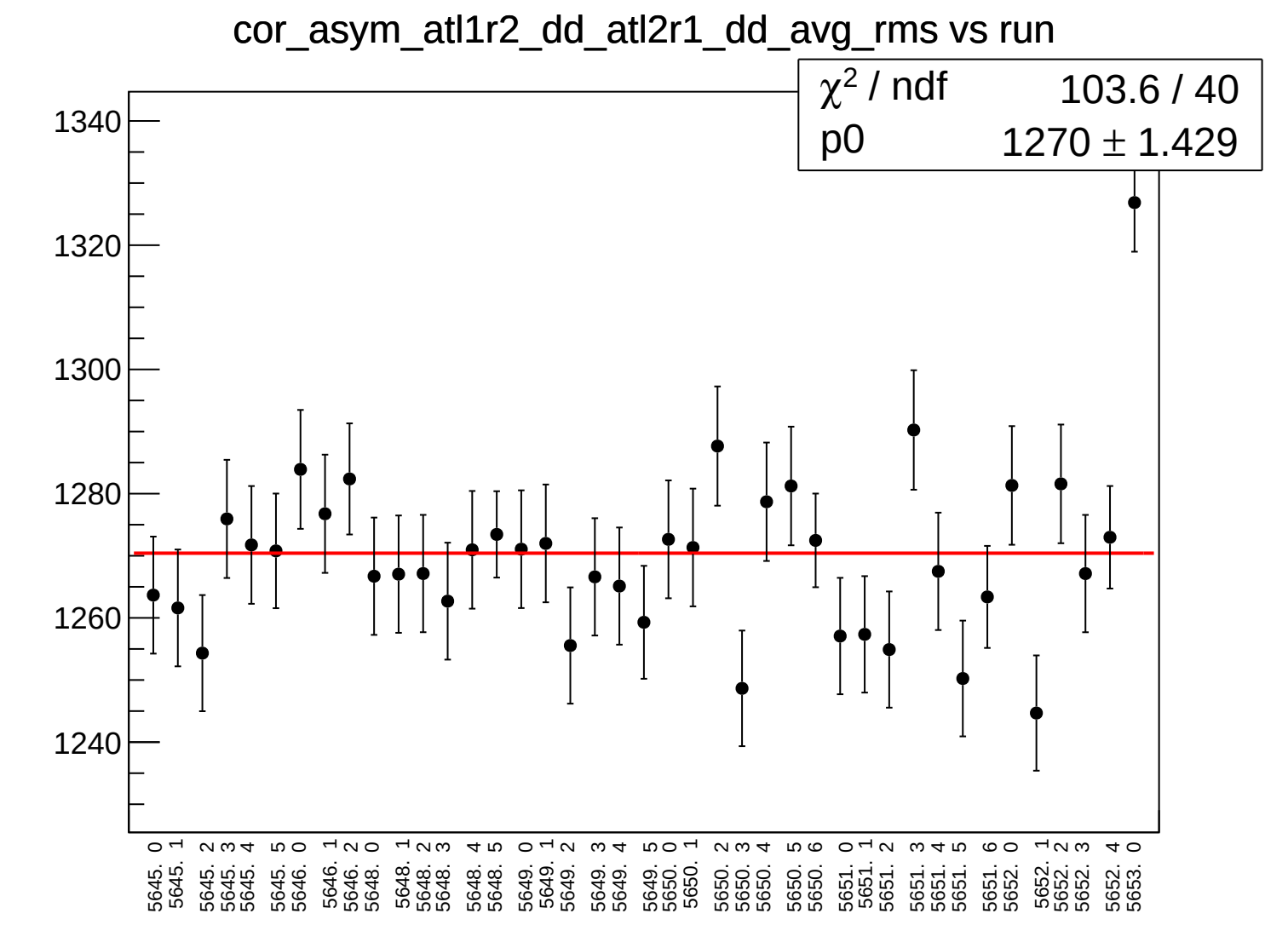

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 53.01 / 40
p0 −101.7 ± 720.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.654
Std Dev 0
2
1
0
−1
−2

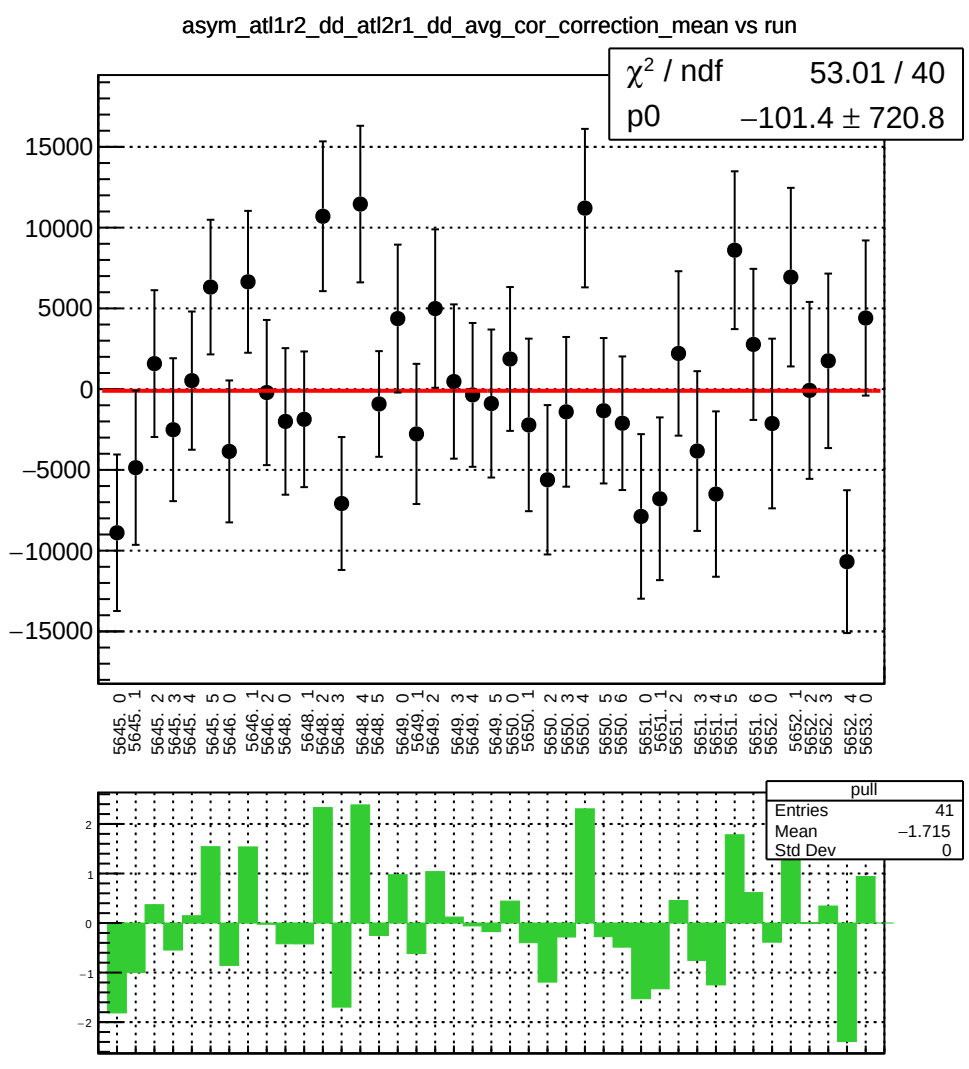

pull1D
Entries 41
Mean 0.01151
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

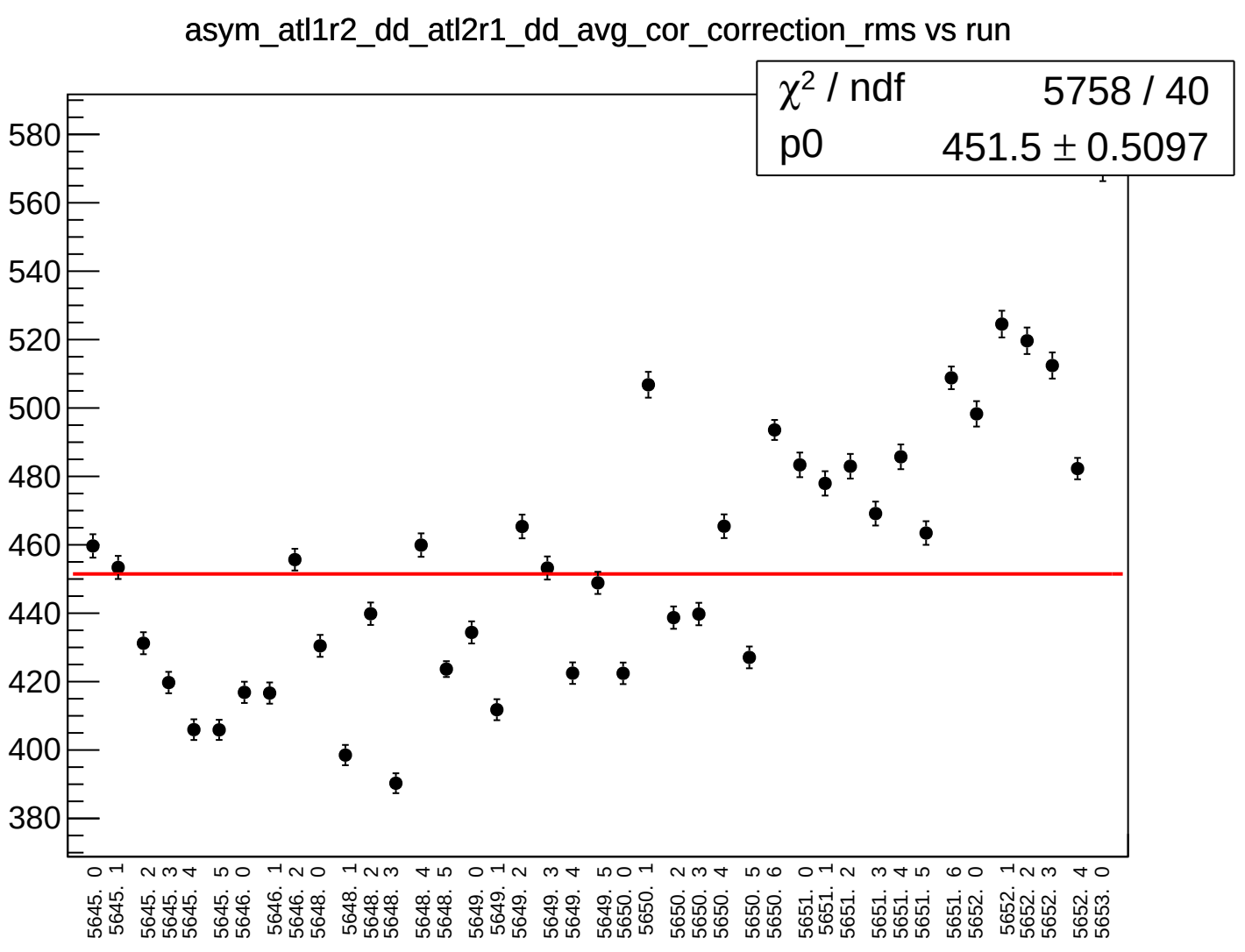

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 5759 / 40
p0 451.5 ± 0.5097
580
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

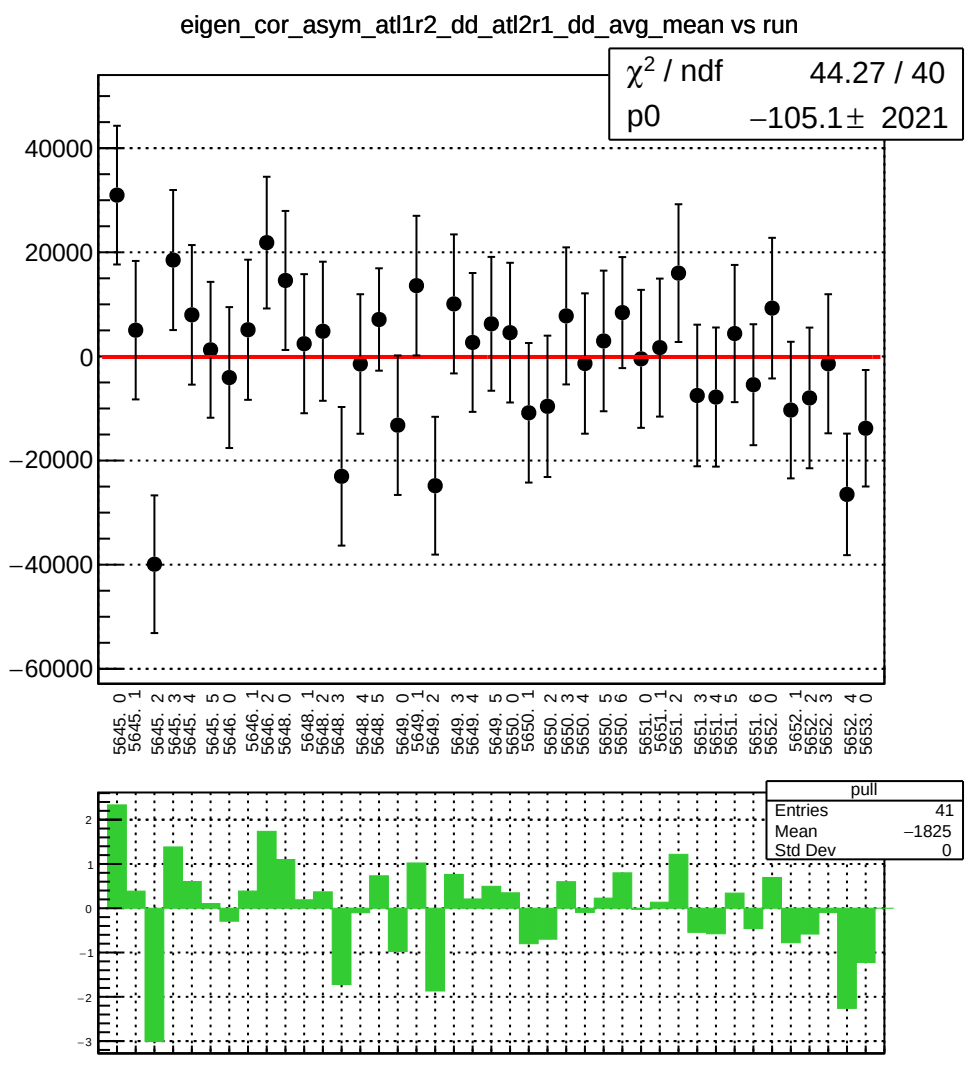

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 44.27 / 40
p0 −105.1± 2021
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1825
Std Dev 0
2
1
0
−1
−2
−3

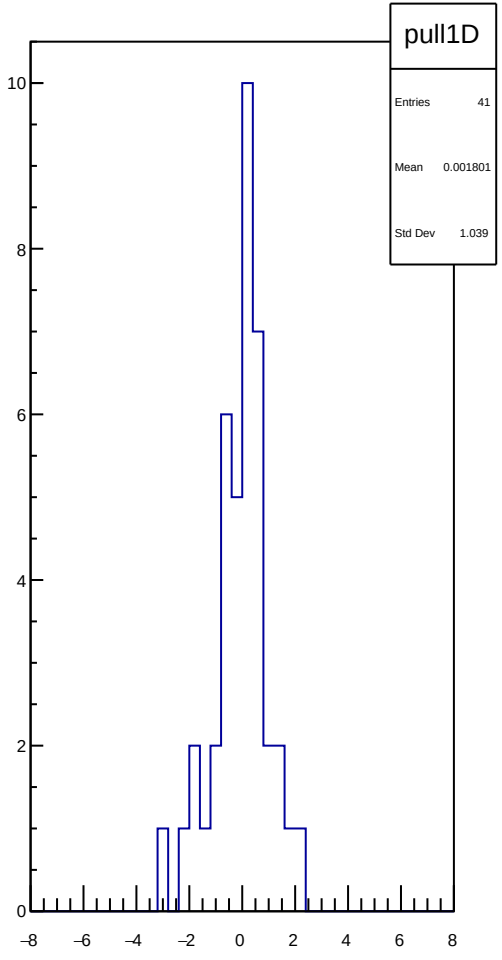

pull1D
Entries 41
Mean 0.001801
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

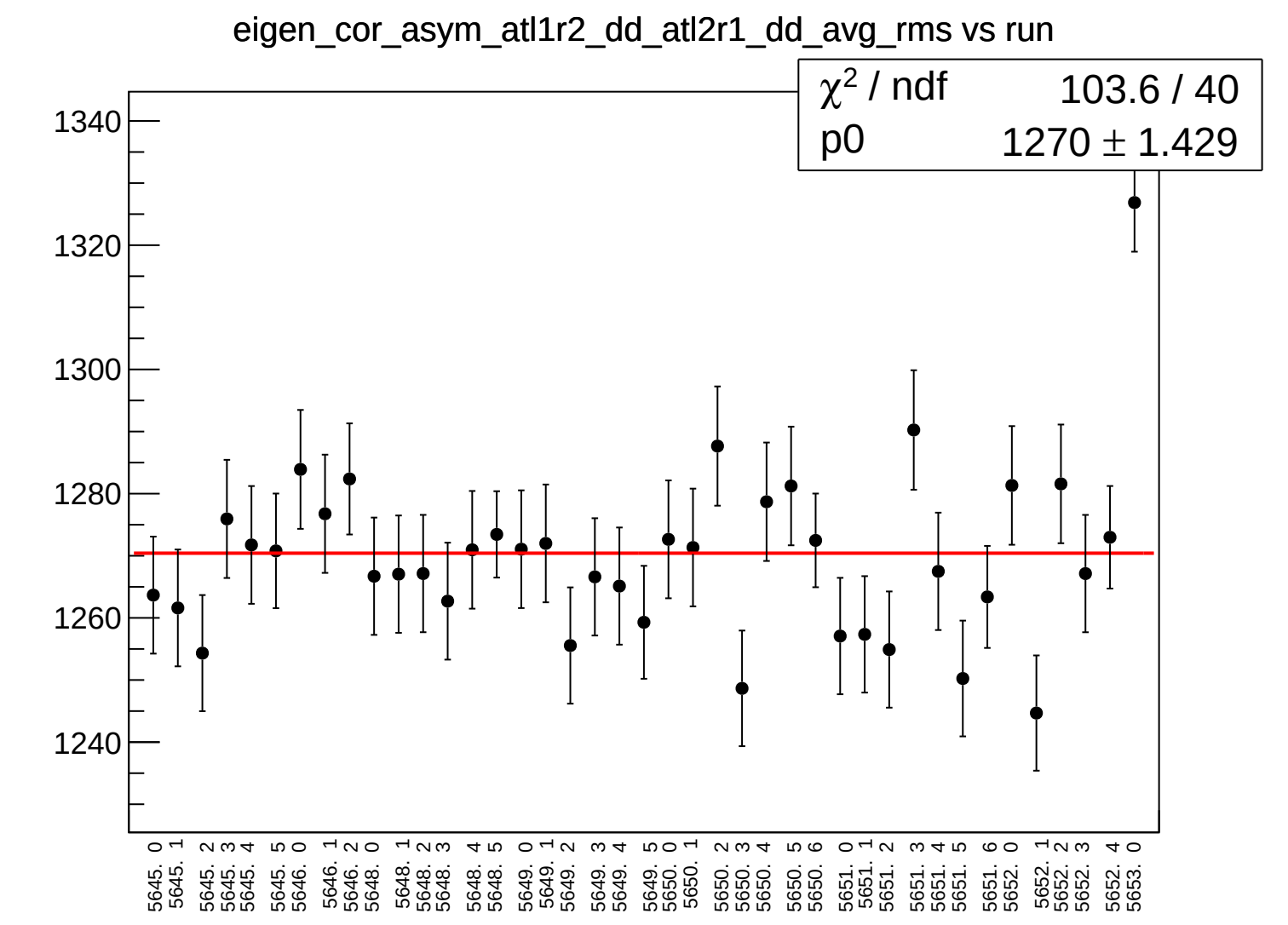

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 103.6 / 40
p0 1270 ± 1.429
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

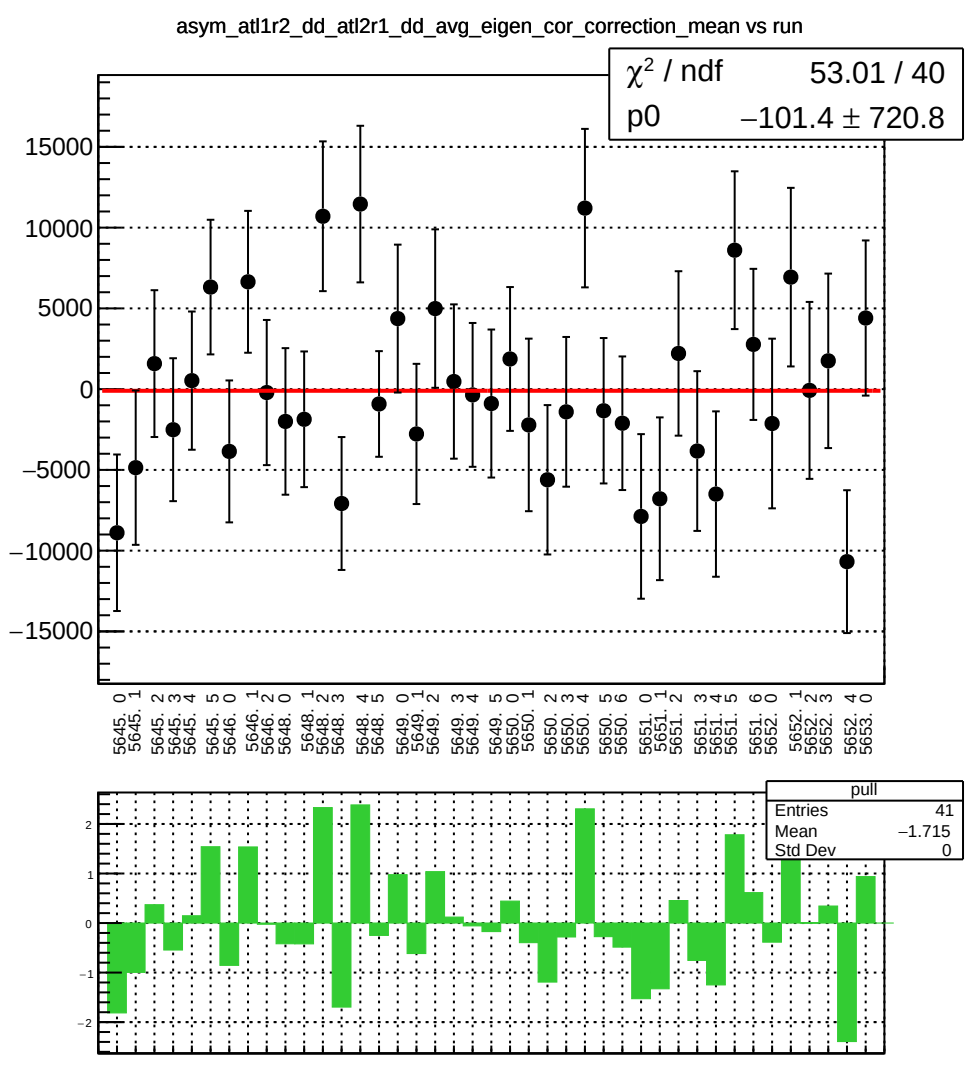

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 53.01 / 40
p0 −101.4 ± 720.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.715
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01149
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

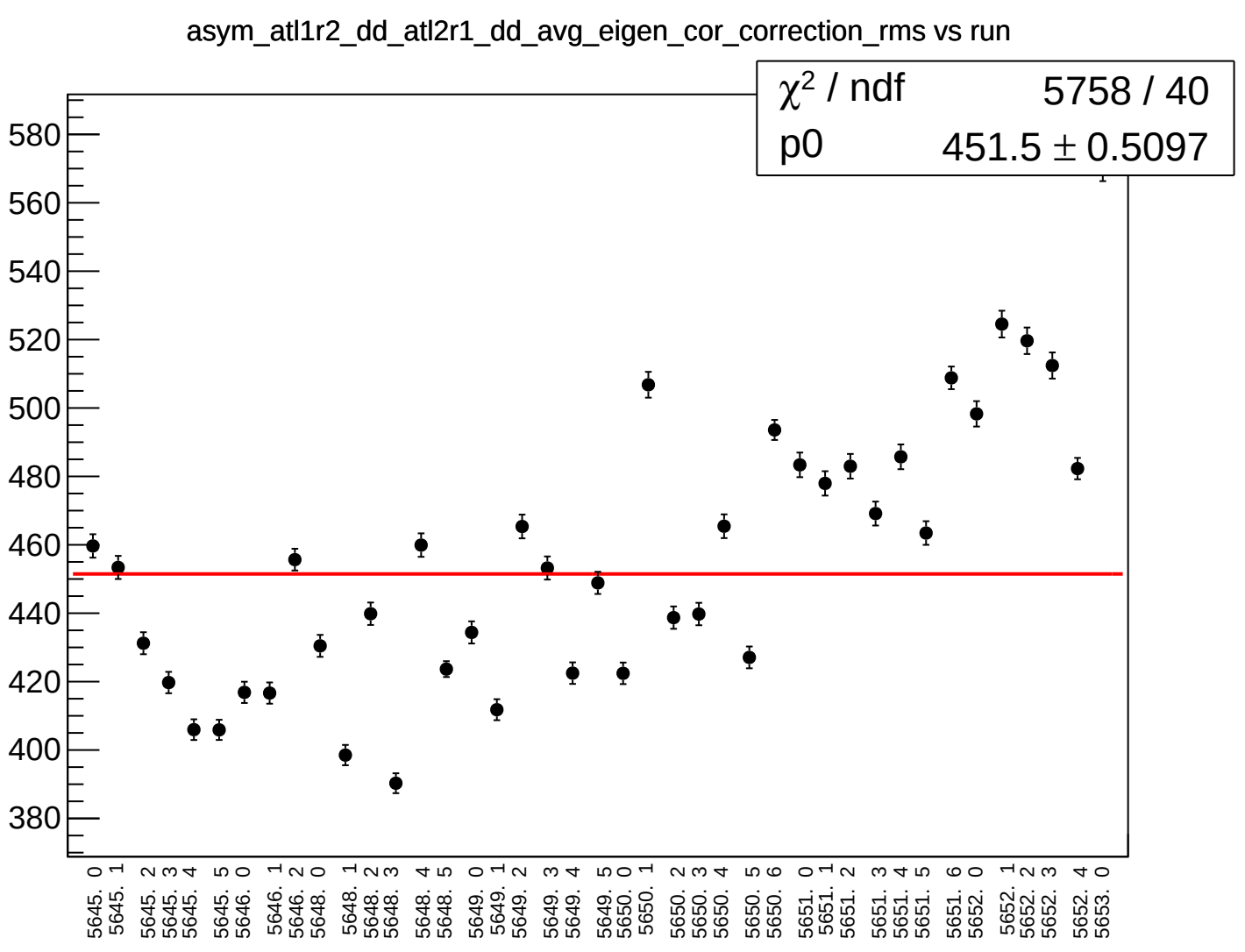

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 5758 / 40
p0 451.5 ± 0.5097
580
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 44.27 / 40
p0 −105.1± 2021
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1825
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.001801
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 103.6 / 40
p0 1270 ± 1.429
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 53.01 / 40
p0 −101.4 ± 720.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.715
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01149
Std Dev 1.137
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 5758 / 40
p0 451.5 ± 0.5097
580
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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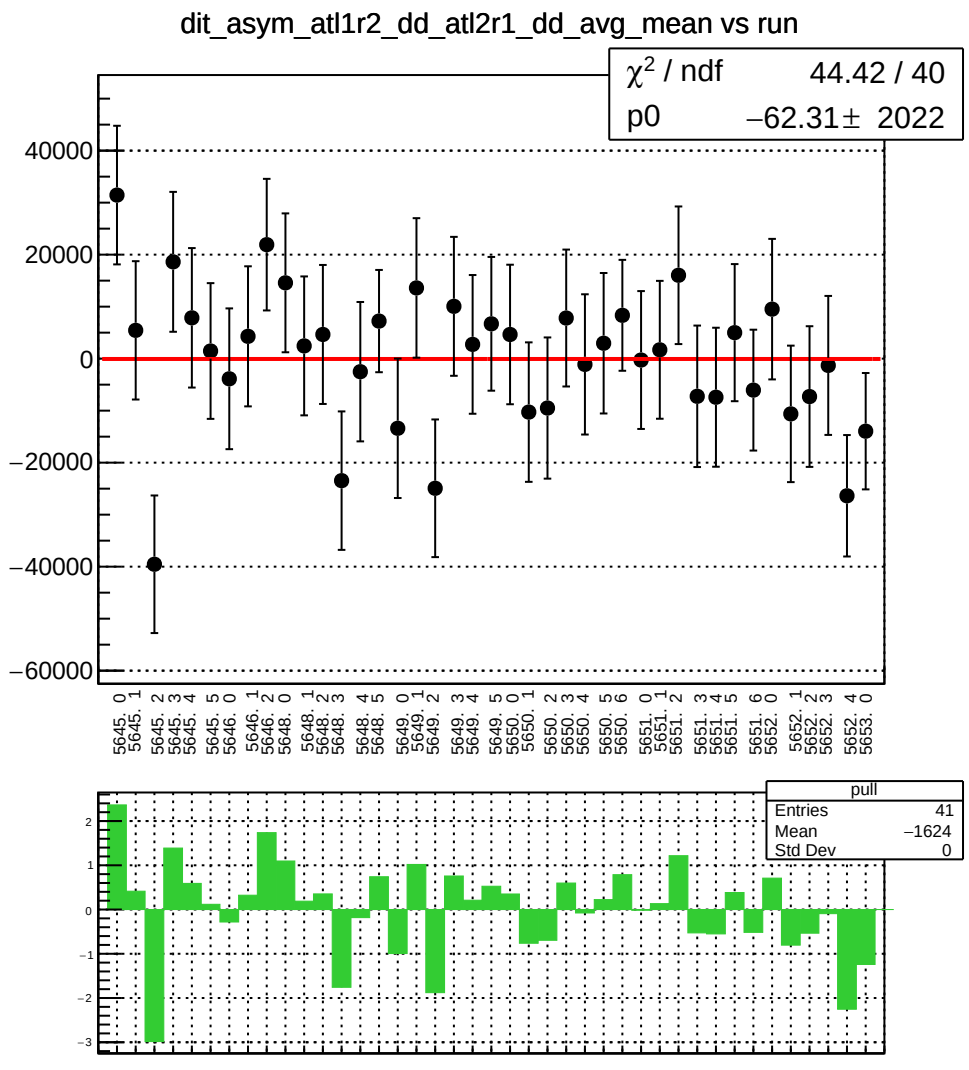
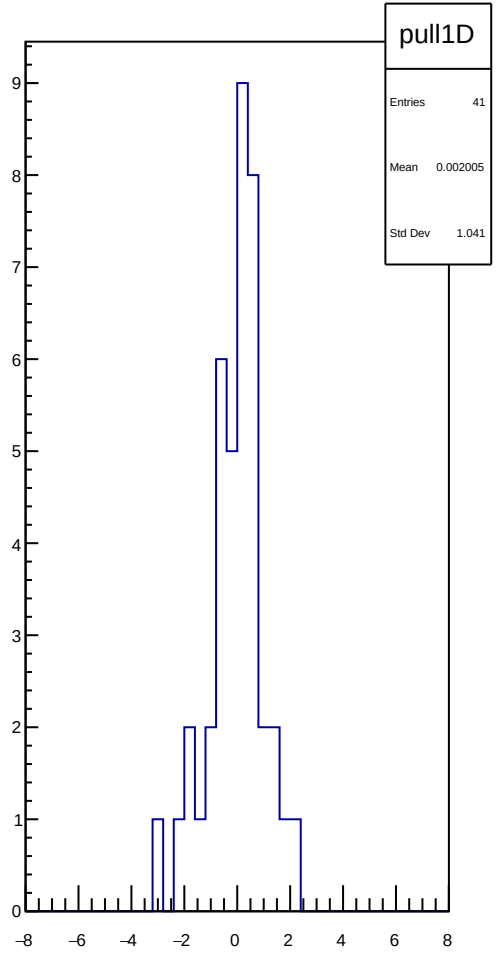
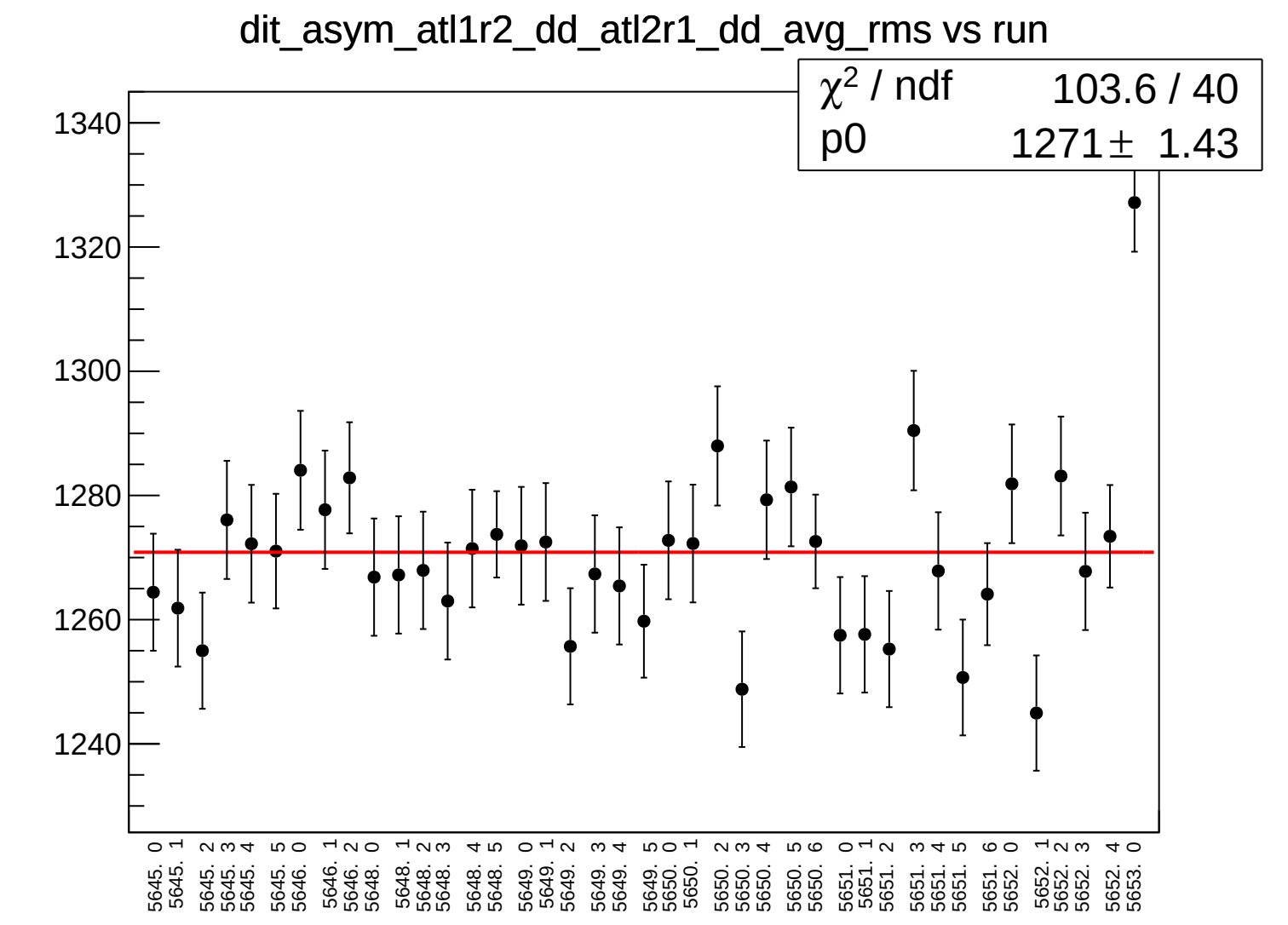
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 44.42 / 40
p0 −62.31± 2022
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1624
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.002005
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 103.6 / 40
p0 1271 ± 1.43
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
5652. 0
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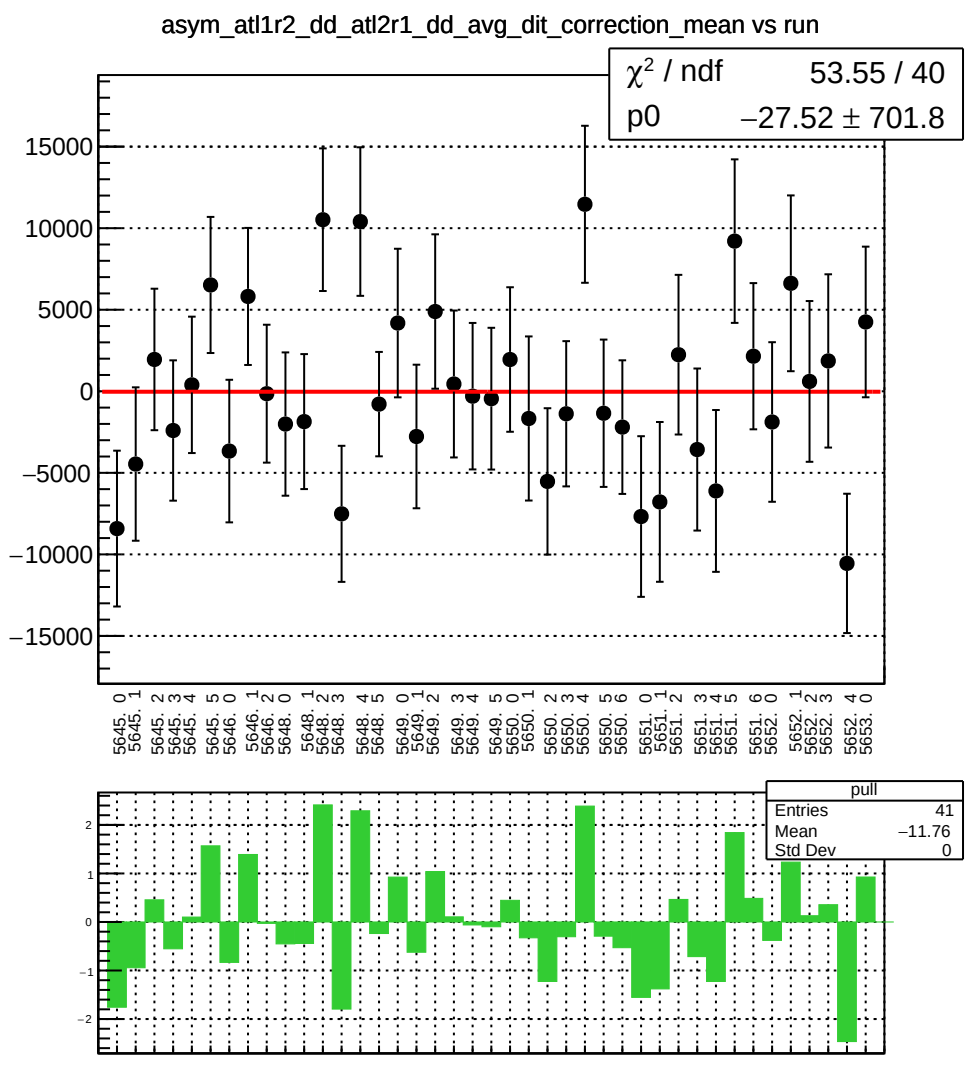
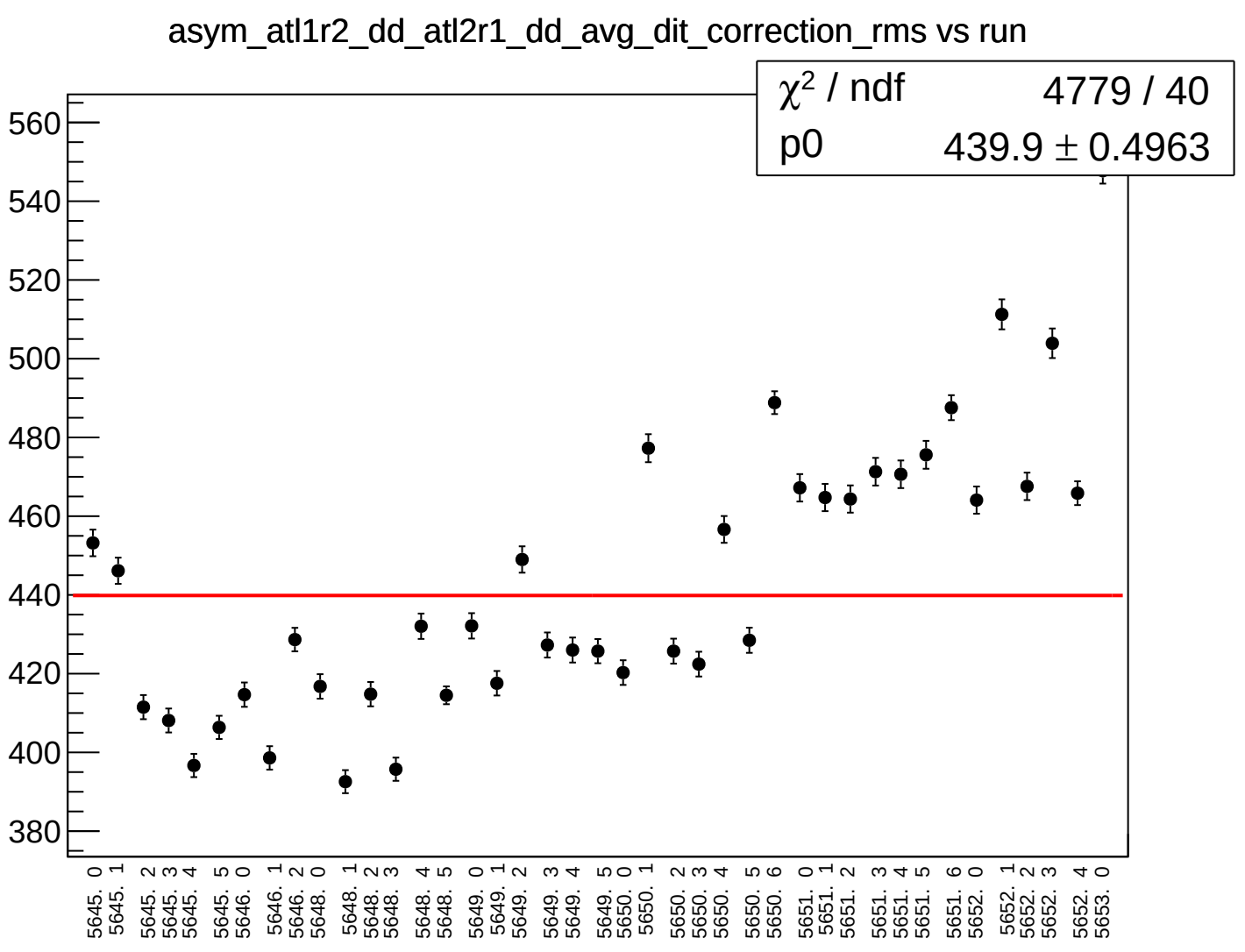
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 53.55 / 40
p0 −27.52 ± 701.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.008526
Std Dev 1.143
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 4779 / 40
p0 439.9 ± 0.4963
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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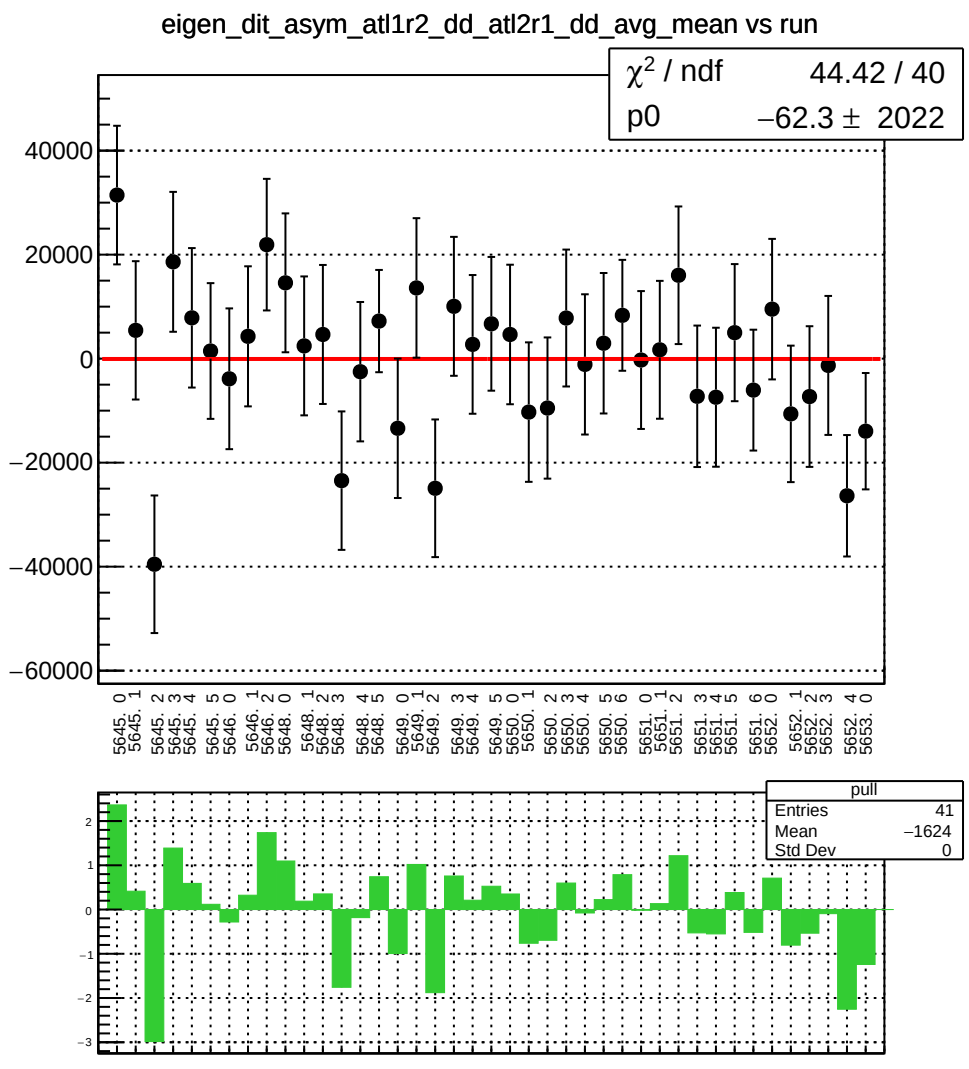
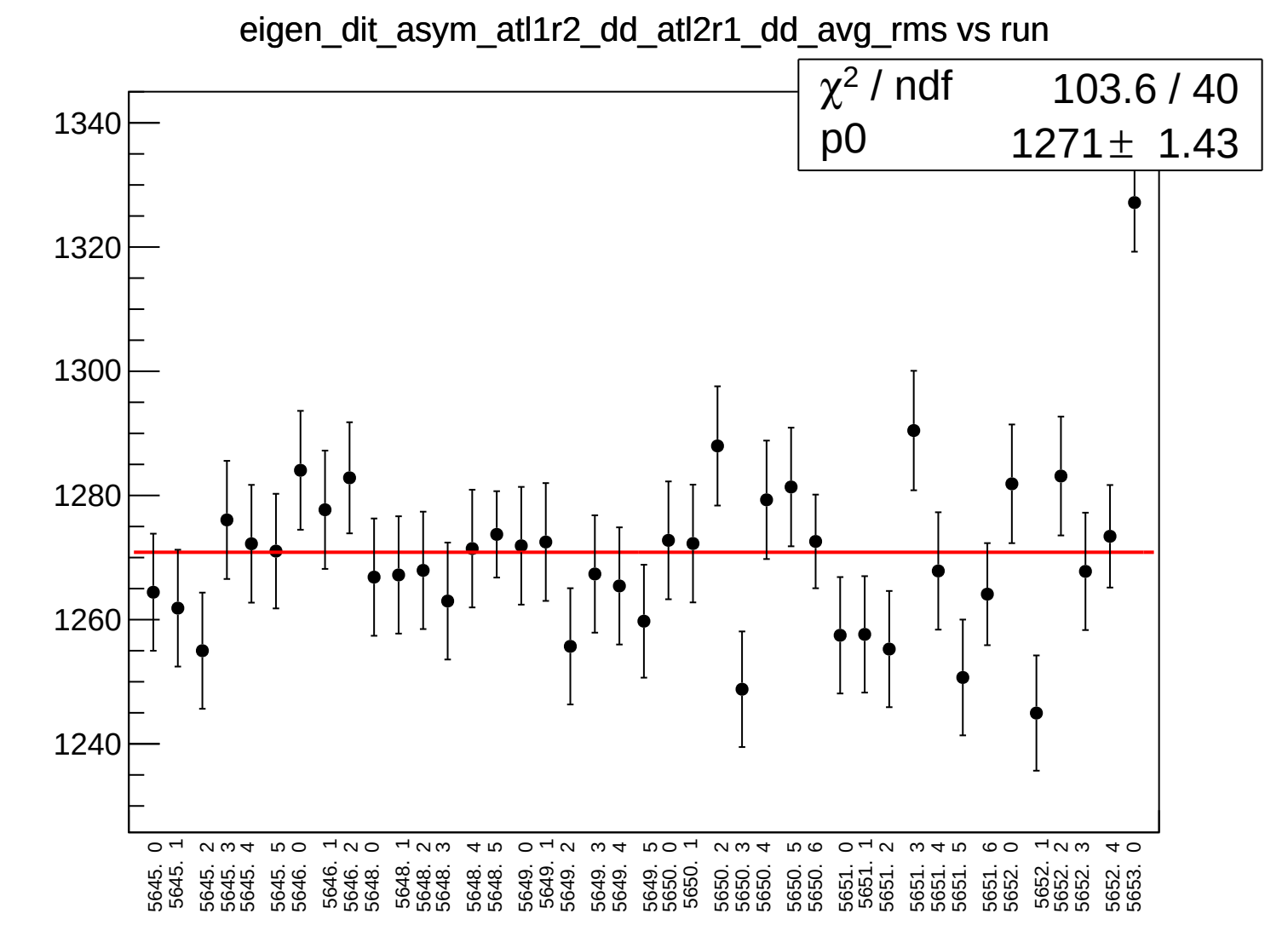
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 44.42 / 40
p0 −62.3 ± 2022
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1624
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.002005
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 103.6 / 40
p0 1271 ± 1.43
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
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5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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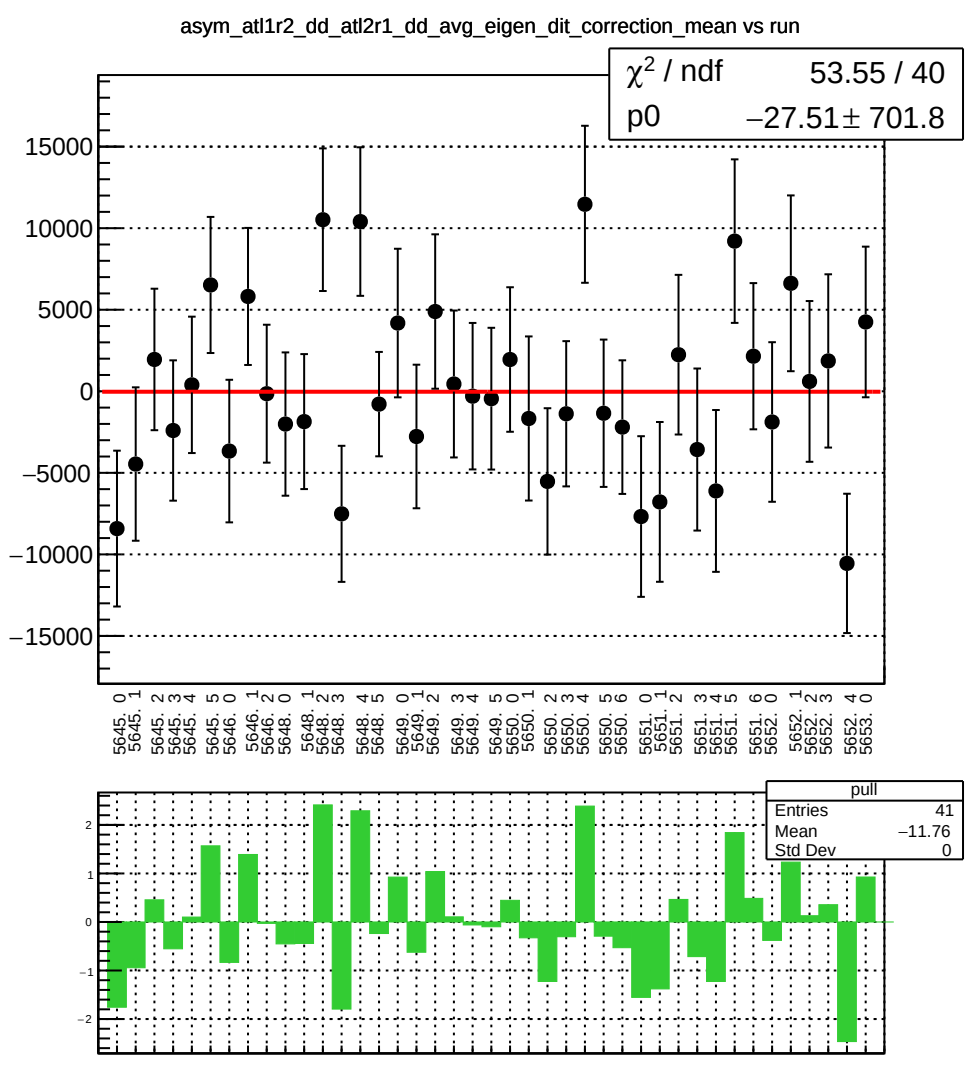
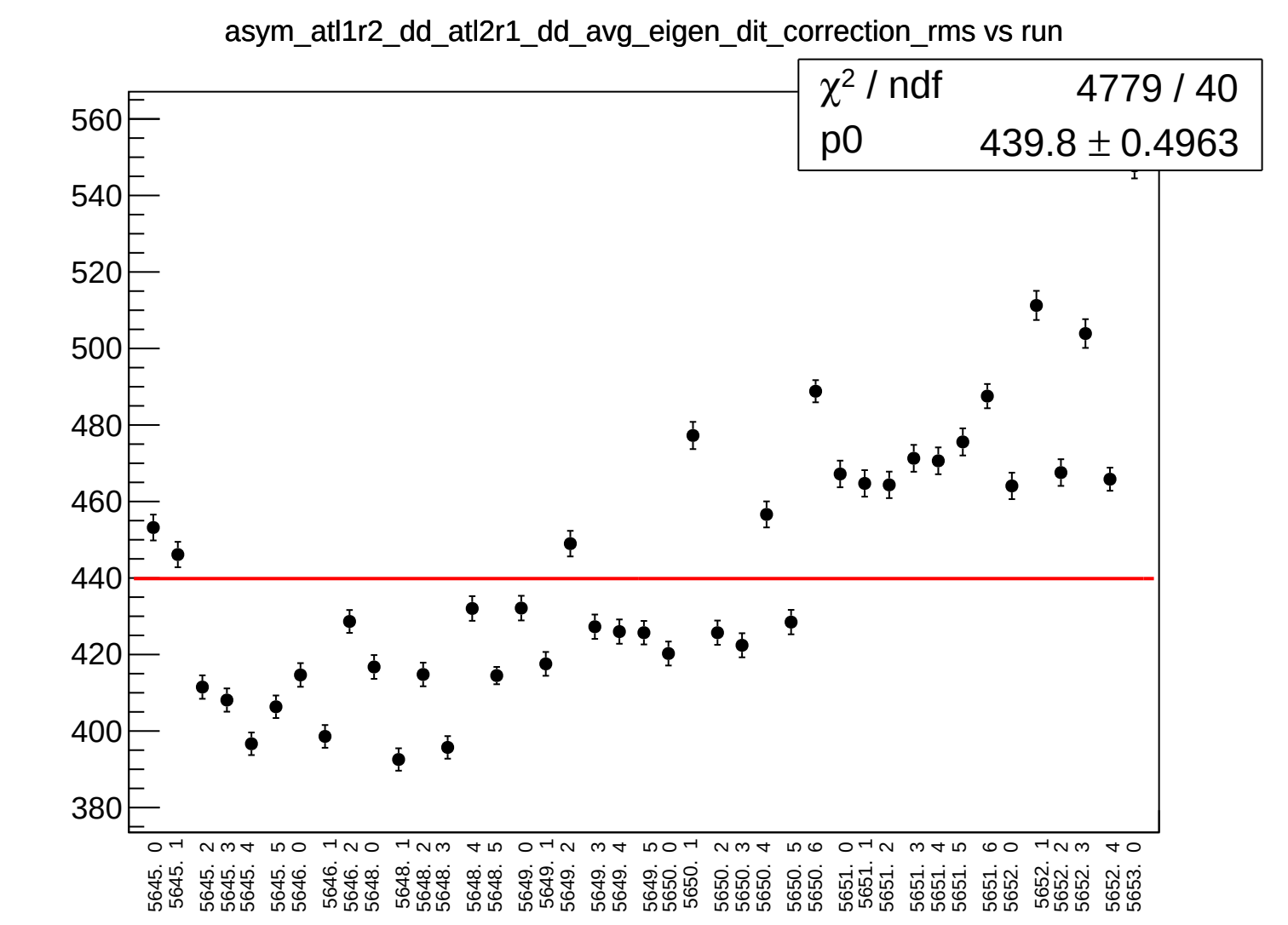
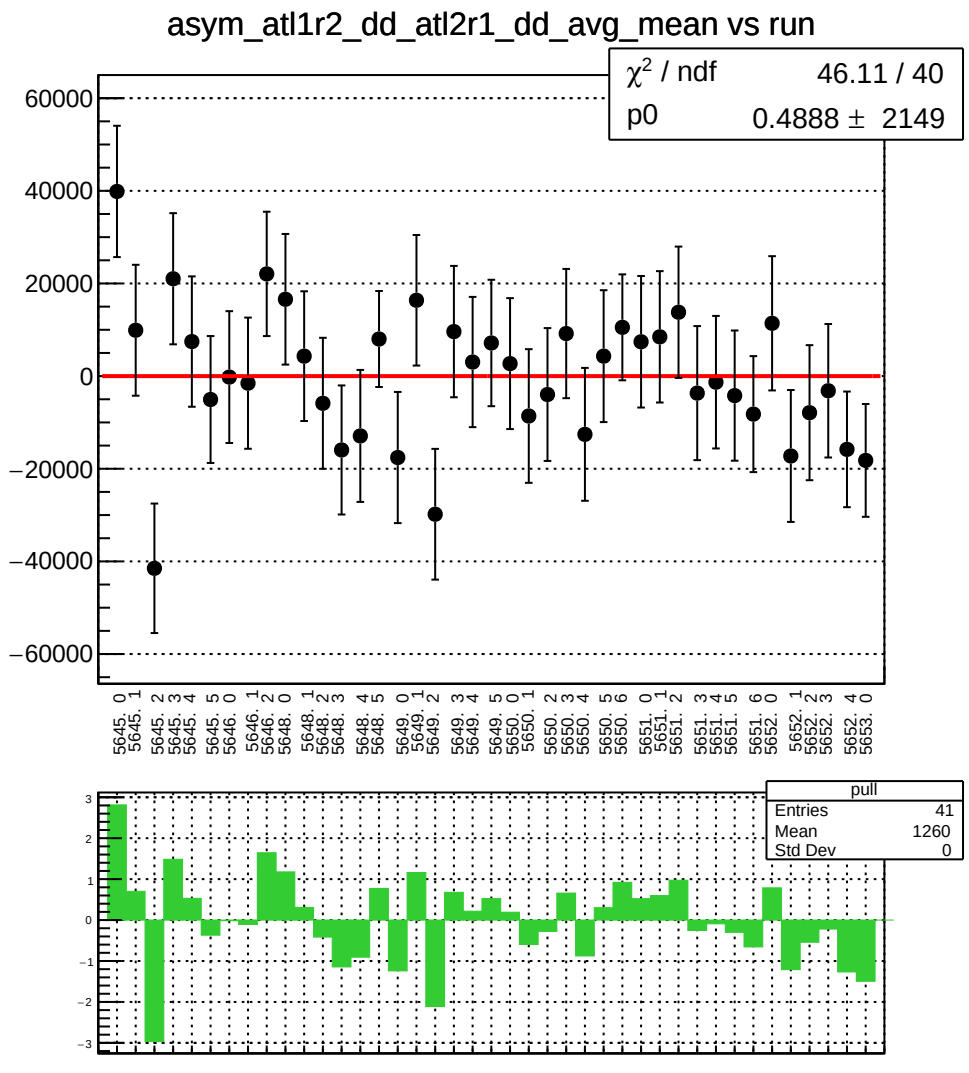
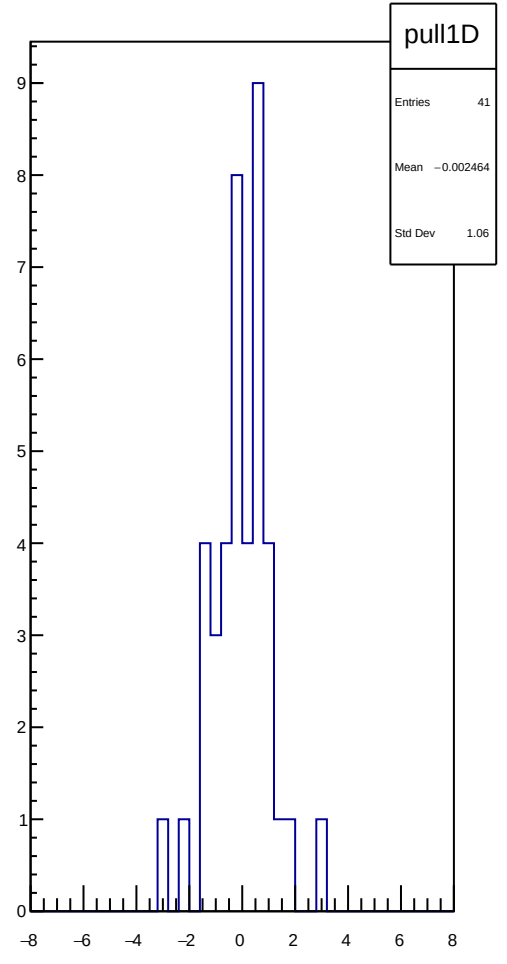
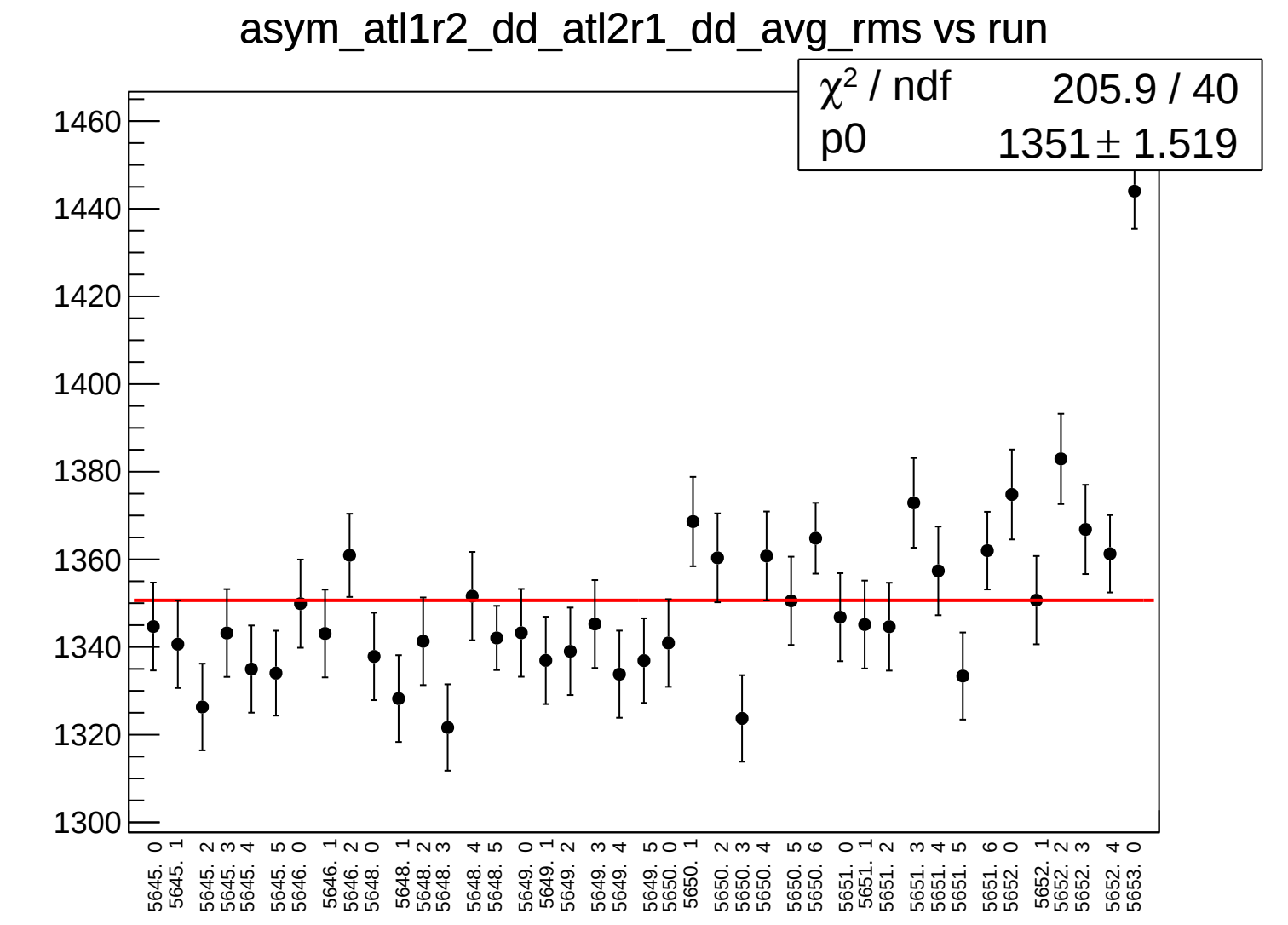
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

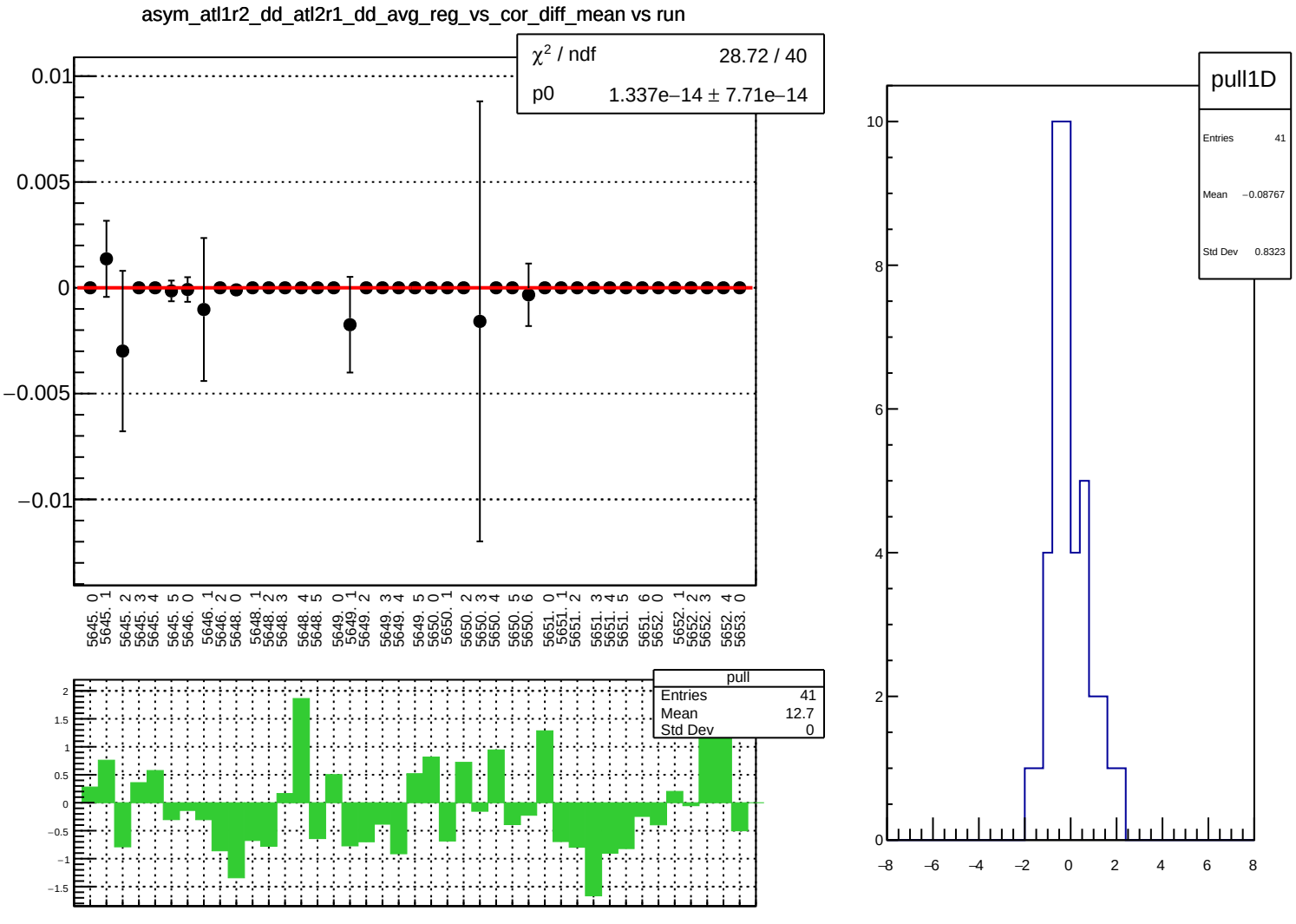

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 53.55 / 40
p0 −27.51± 701.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.008525
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

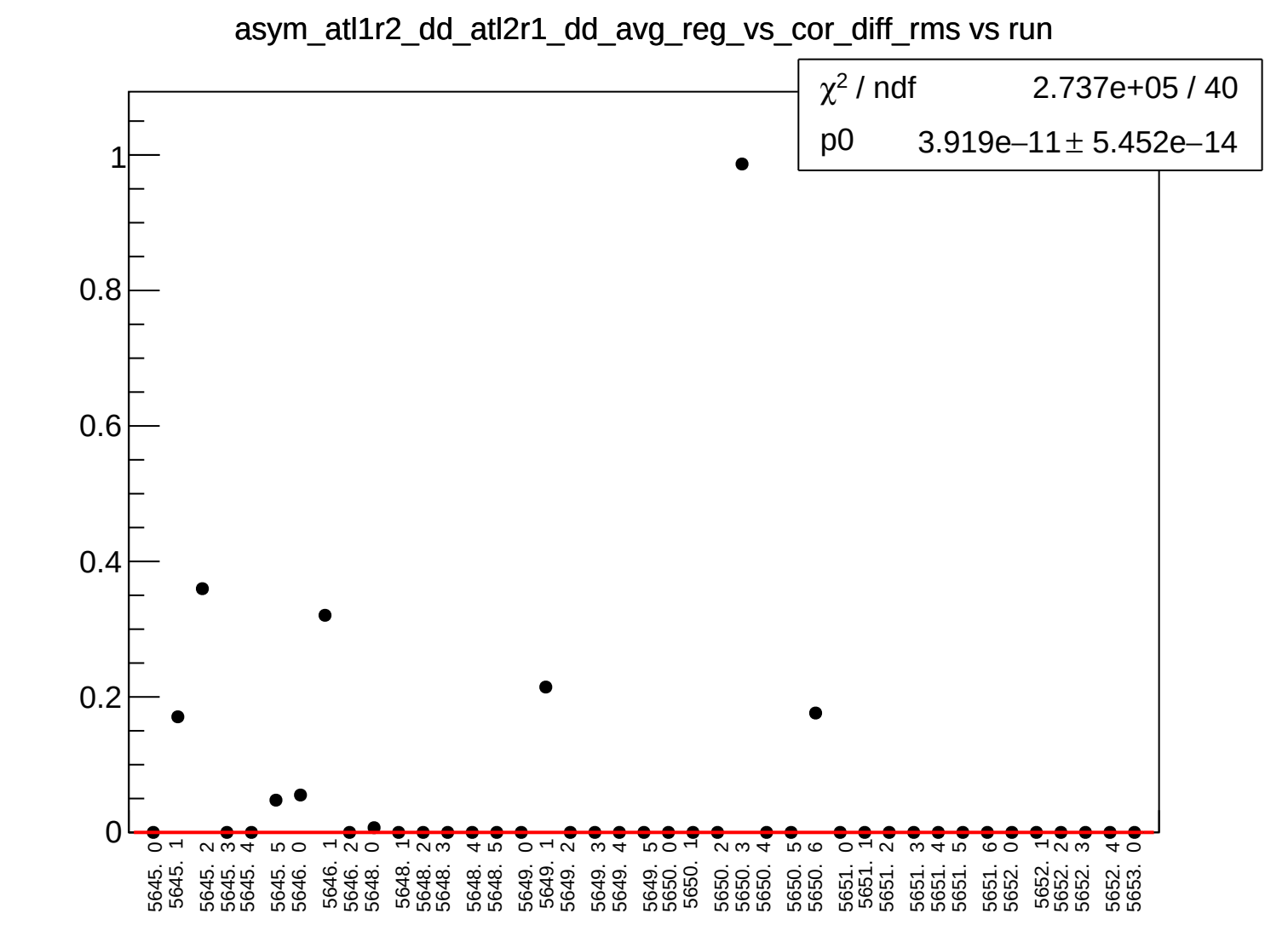

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4779 / 40
p0 439.8 ± 0.4963
560
540
520
500
480
460
440
420
400
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

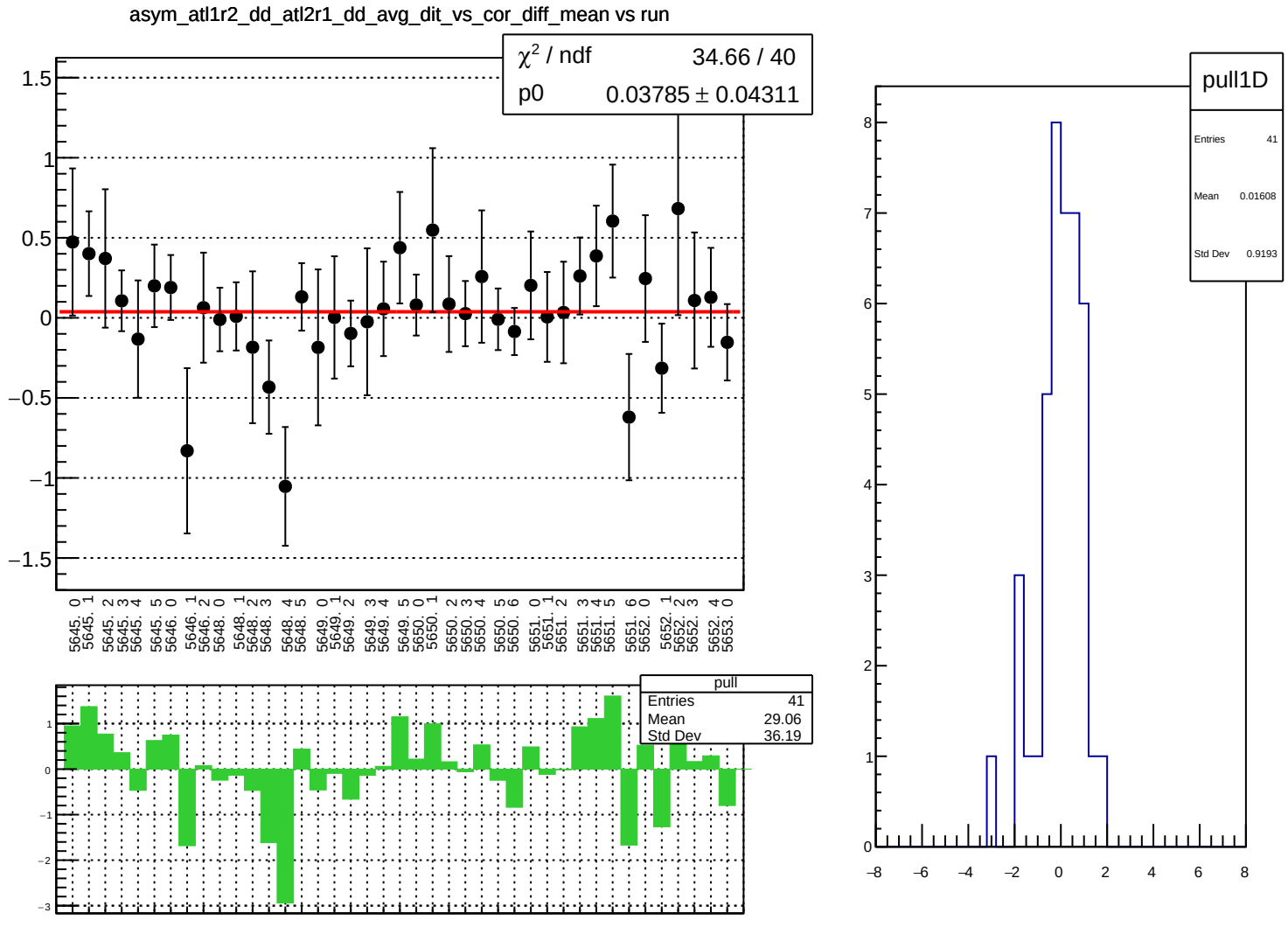

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 46.11 / 40
p0 0.4888 ± 2149
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1260
Std Dev 0
3
2
1
0
−1
−2
−3

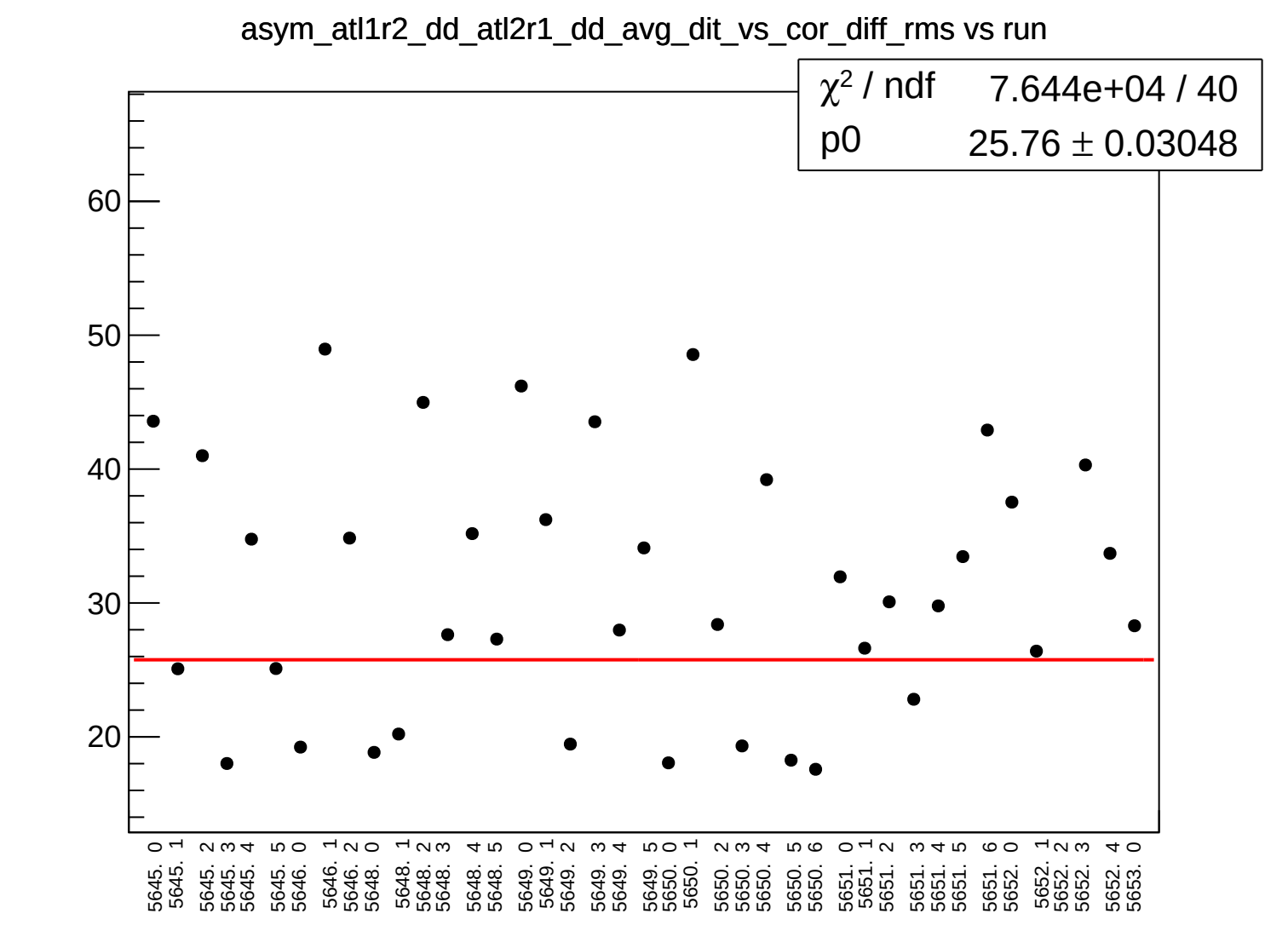

pull1D
Entries 41
Mean −0.002464
Std Dev 1.06
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

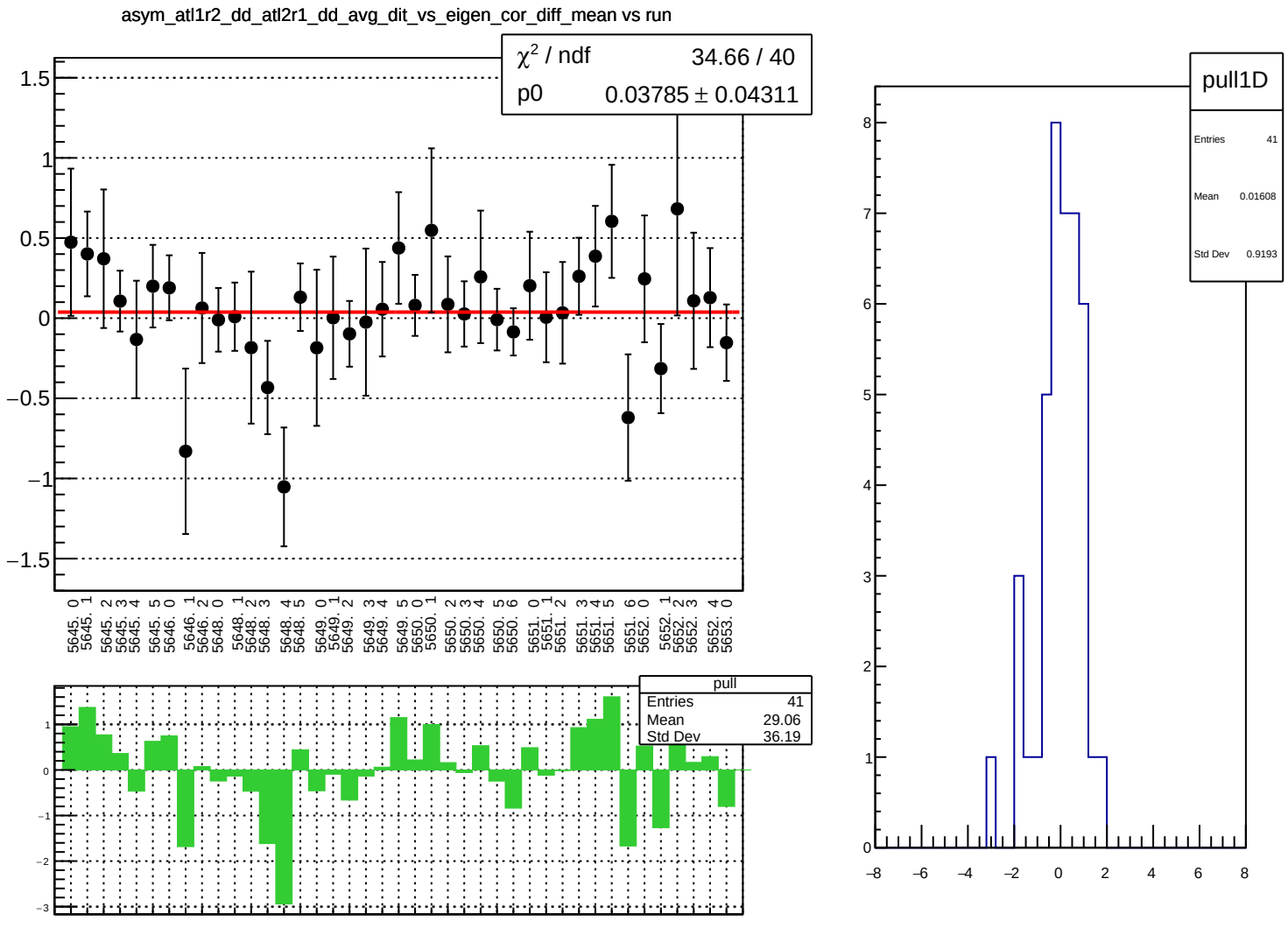

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 205.9 / 40
p0 1351 ± 1.519
1460
1440
1420
1400
1380
1360
1340
1320
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

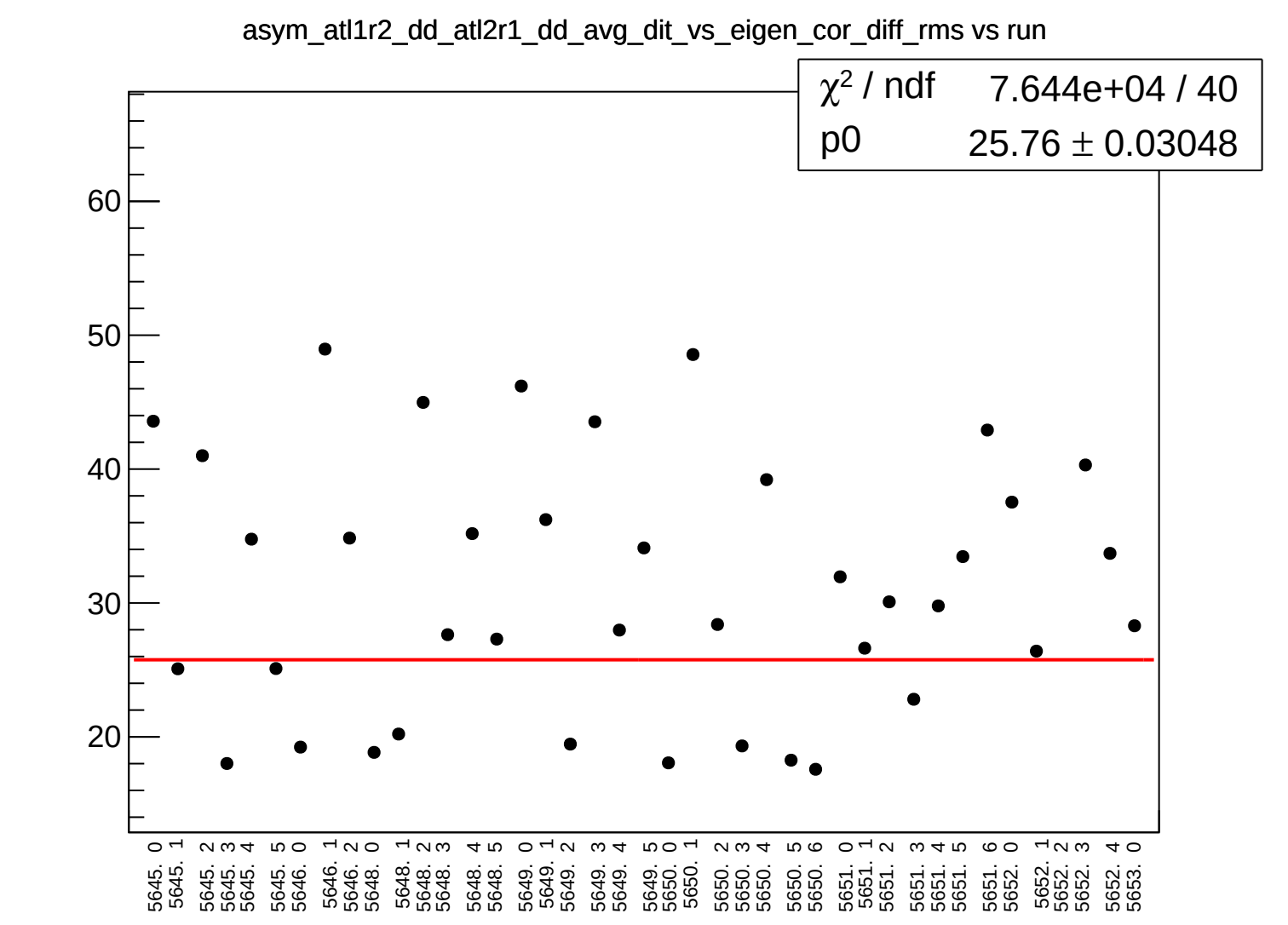

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.72 / 40
p0 1.337e−14 ± 7.71e−14
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.08767
Std Dev 0.8323
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

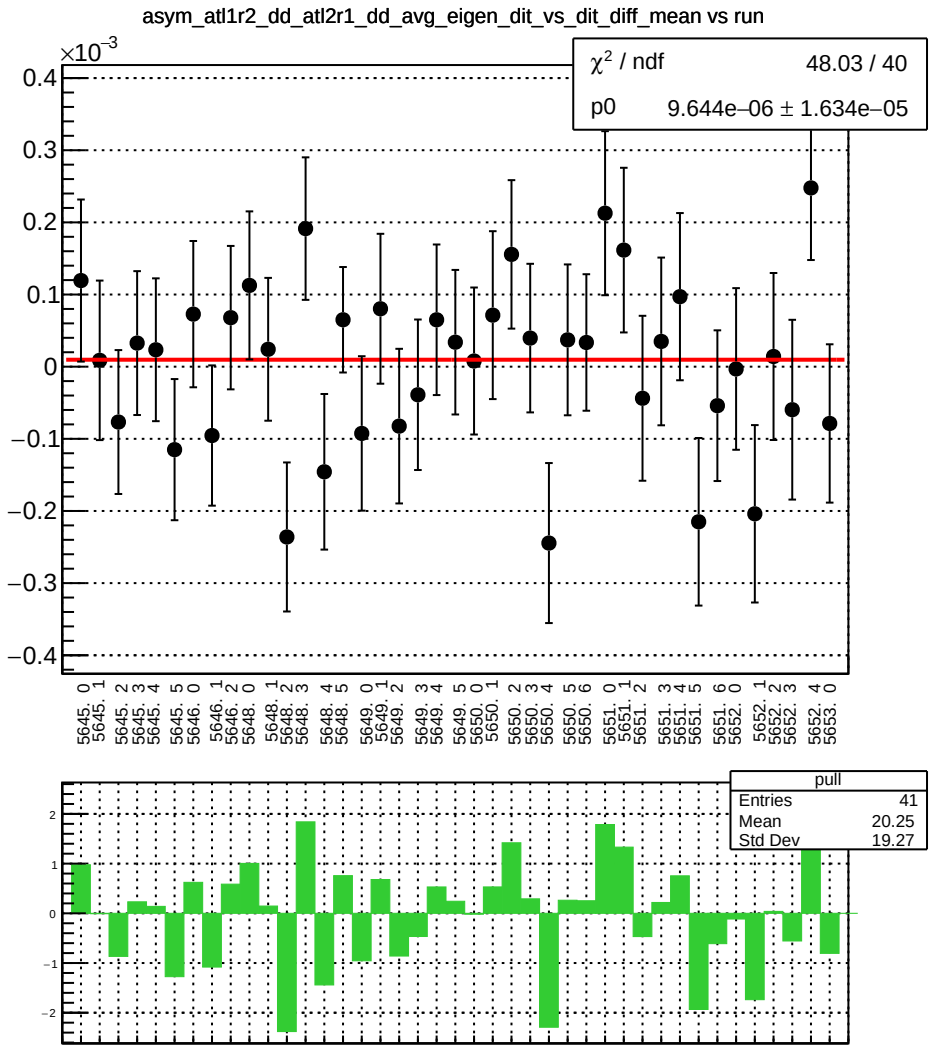

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.737e+05 / 40
p0 3.919e−11 ± 5.452e−14
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

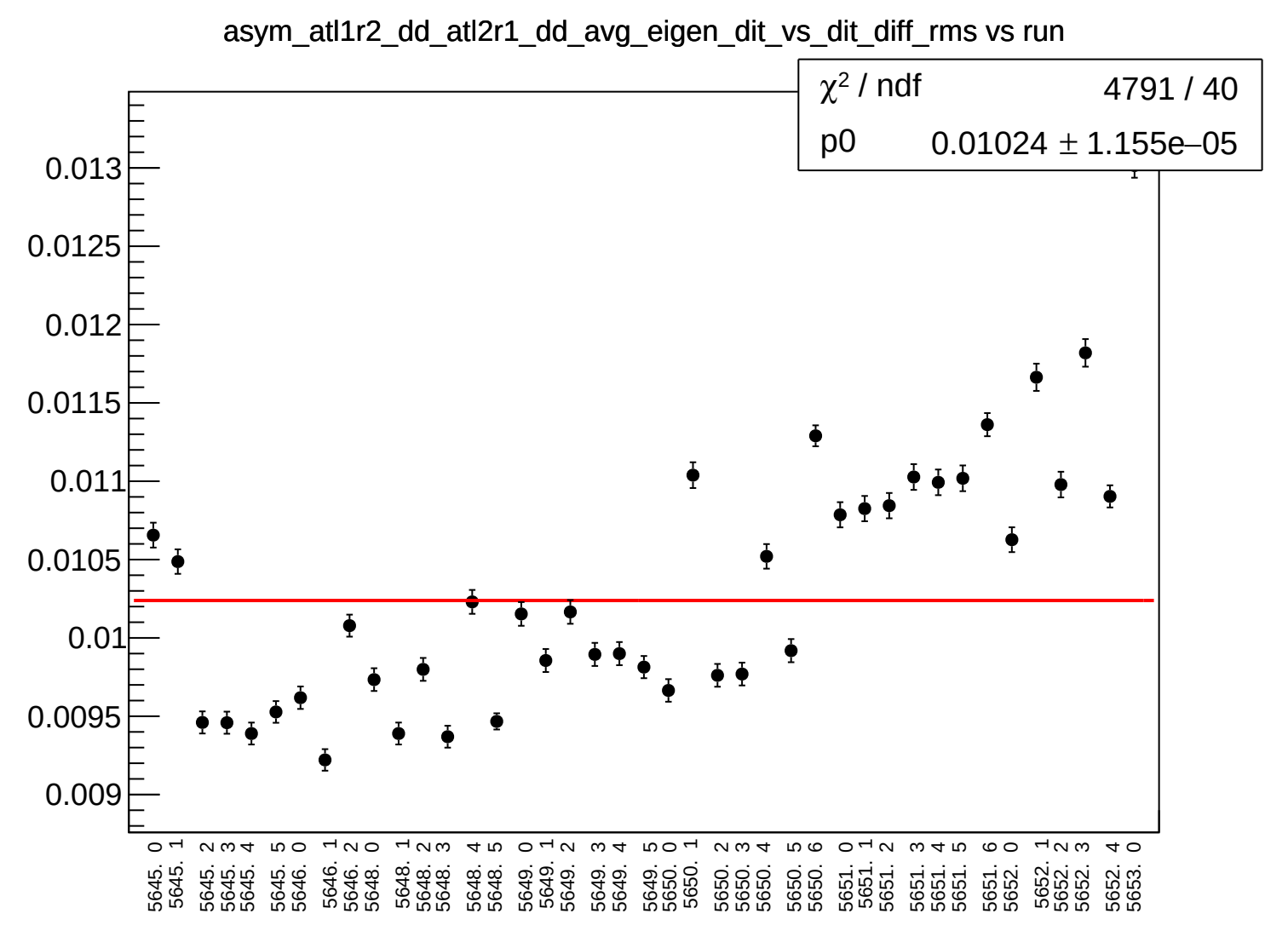

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03785 ± 0.04311
pull
Entries 41
Mean 29.06
Std Dev 36.19
pull1D
Entries 41
Mean 0.01608
Std Dev 0.9193

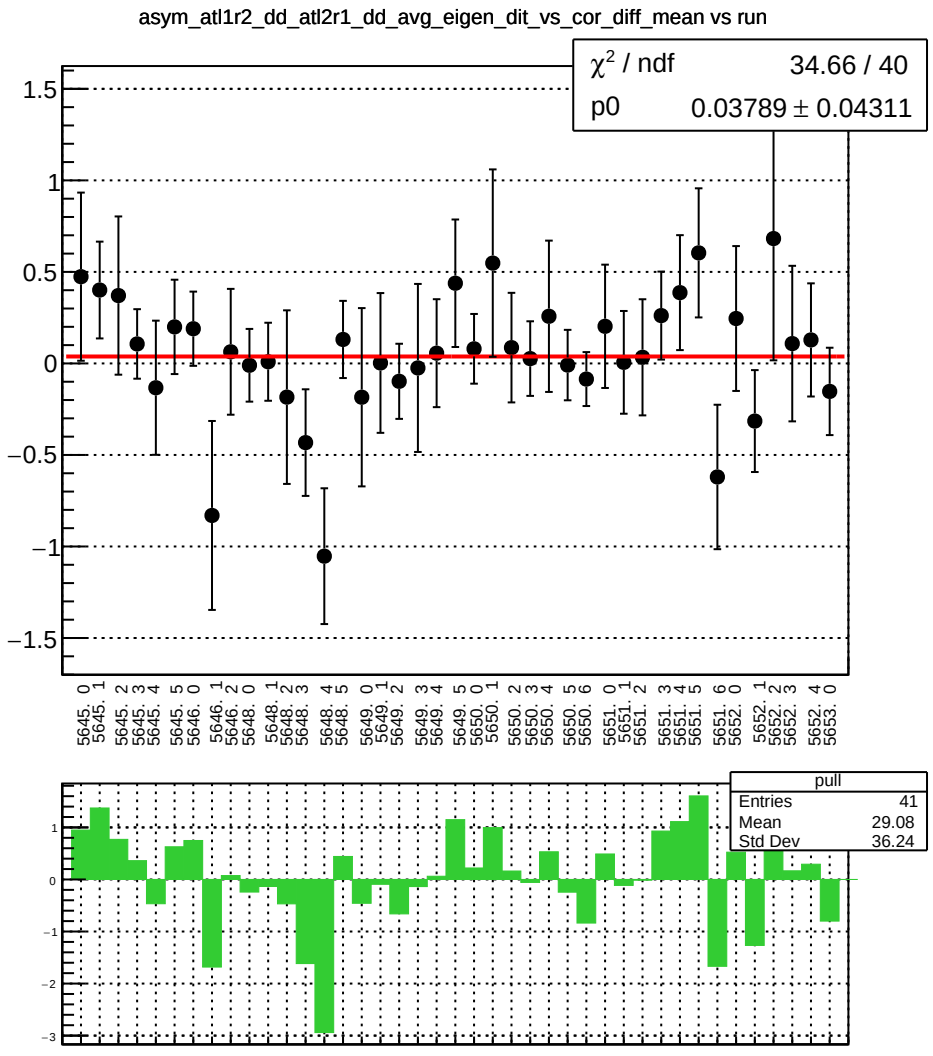

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.644e+04 / 40
p0 25.76 ± 0.03048
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

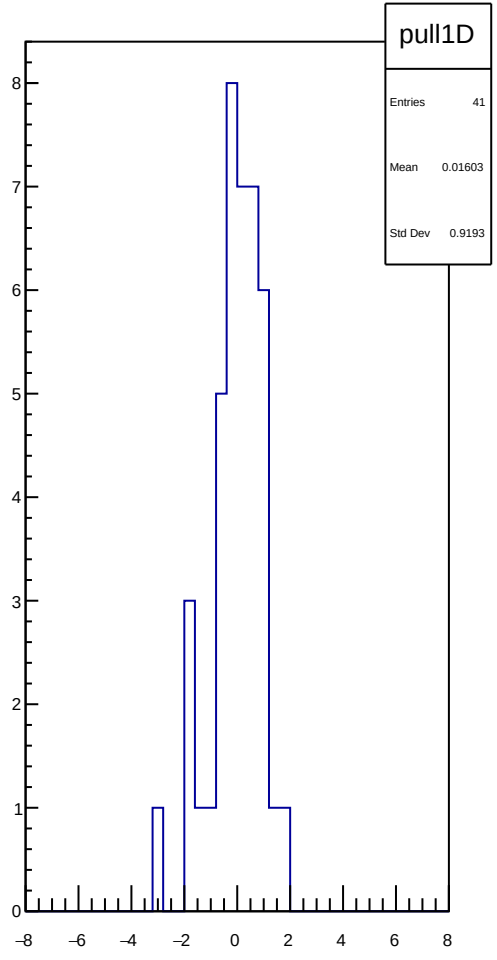

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03785 ± 0.04311
pull
Entries 41
Mean 29.06
Std Dev 36.19
pull1D
Entries 41
Mean 0.01608
Std Dev 0.9193

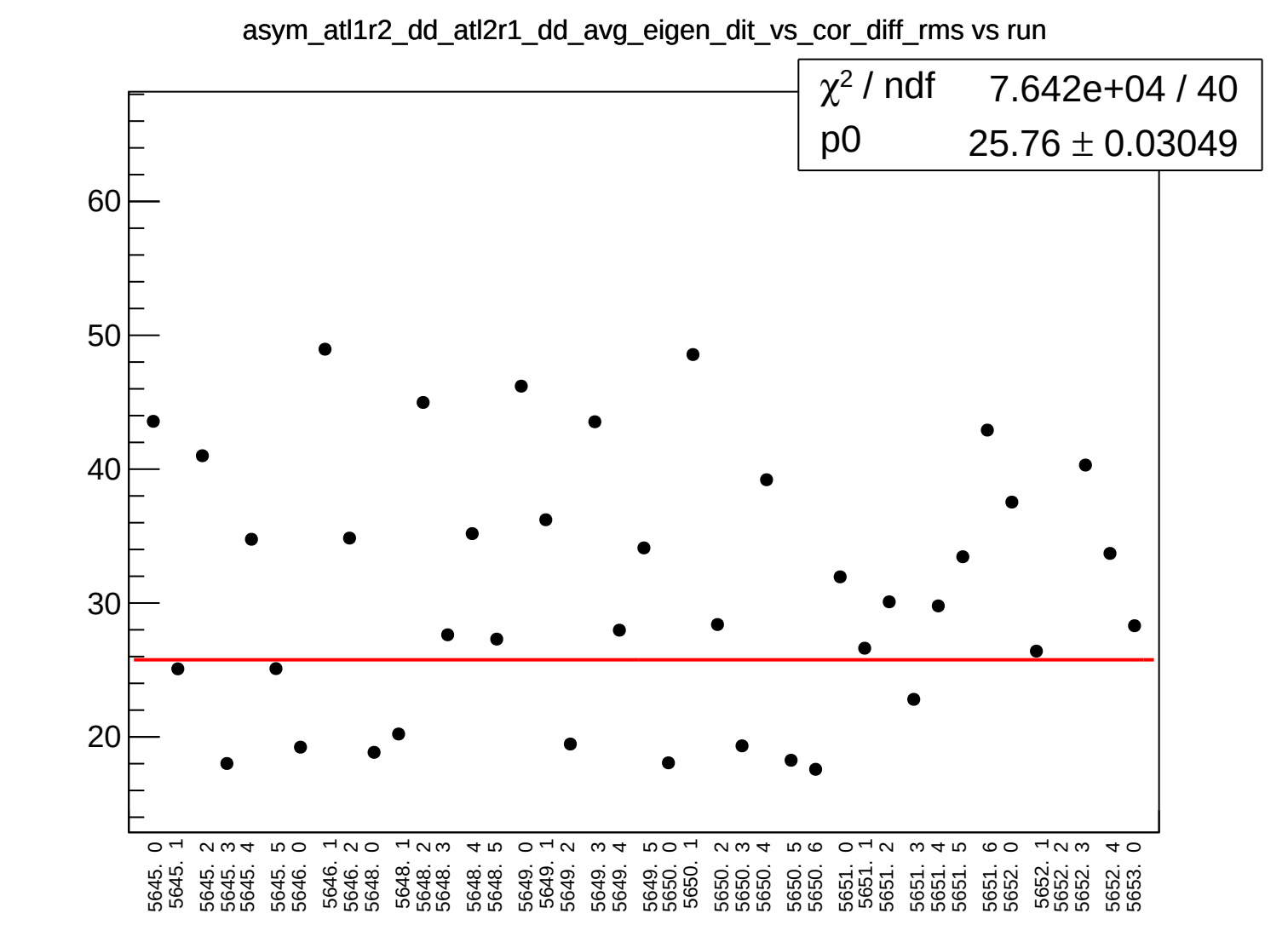

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.644e+04 / 40
p0 25.76 ± 0.03048
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 48.03 / 40
p0 9.644e−06 ± 1.634e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.25
Std Dev 19.27
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02041
Std Dev 1.082
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_vs_dit_diff_rms vs run
χ² / ndf 4791 / 40
p0 0.01024 ± 1.155e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03789 ± 0.04311
pull
Entries 41
Mean 29.08
Std Dev 36.24


pull1D
Entries 41
Mean 0.01603
Std Dev 0.9193


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.642e+04 / 40
p0 25.76 ± 0.03049
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
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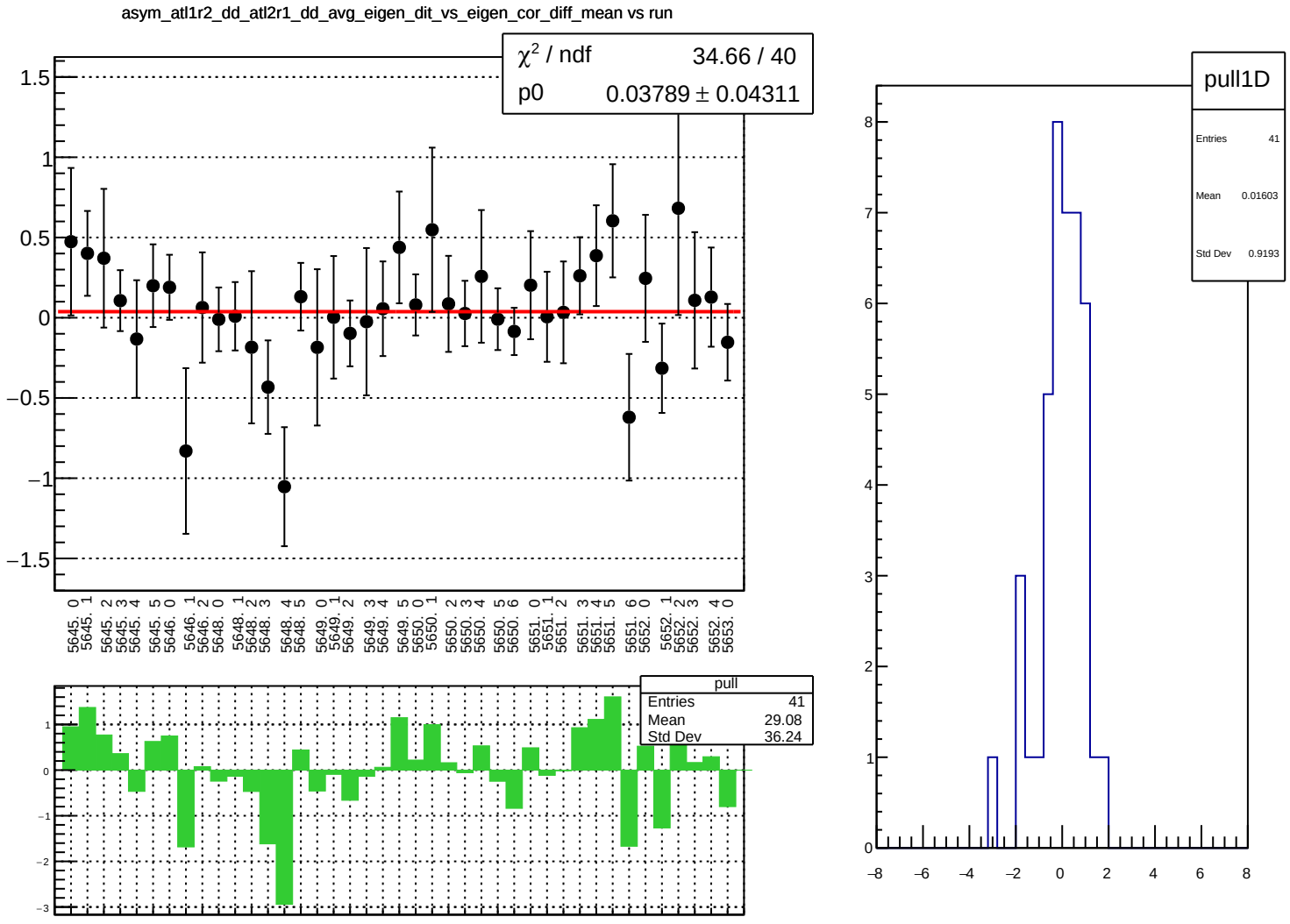
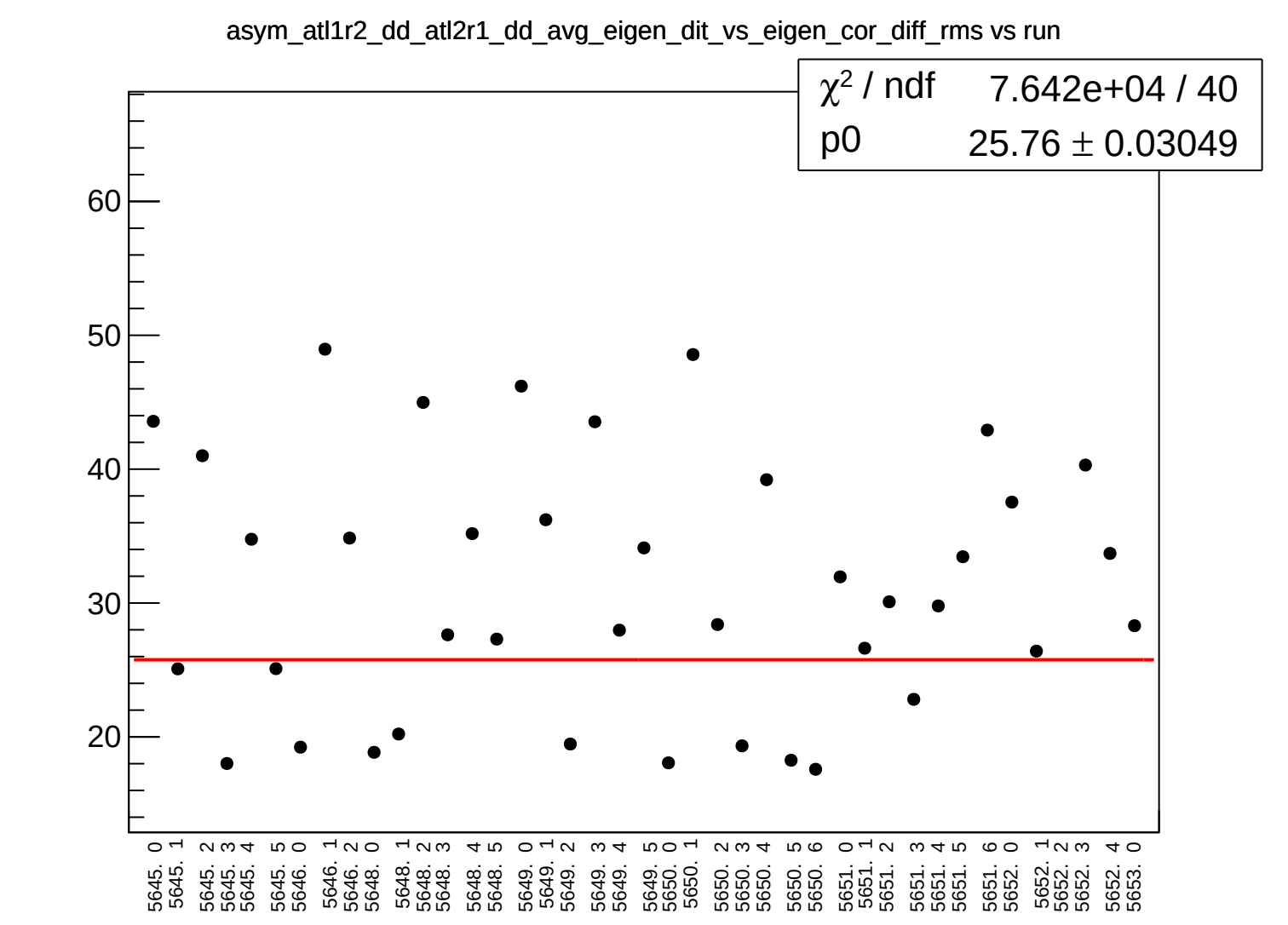
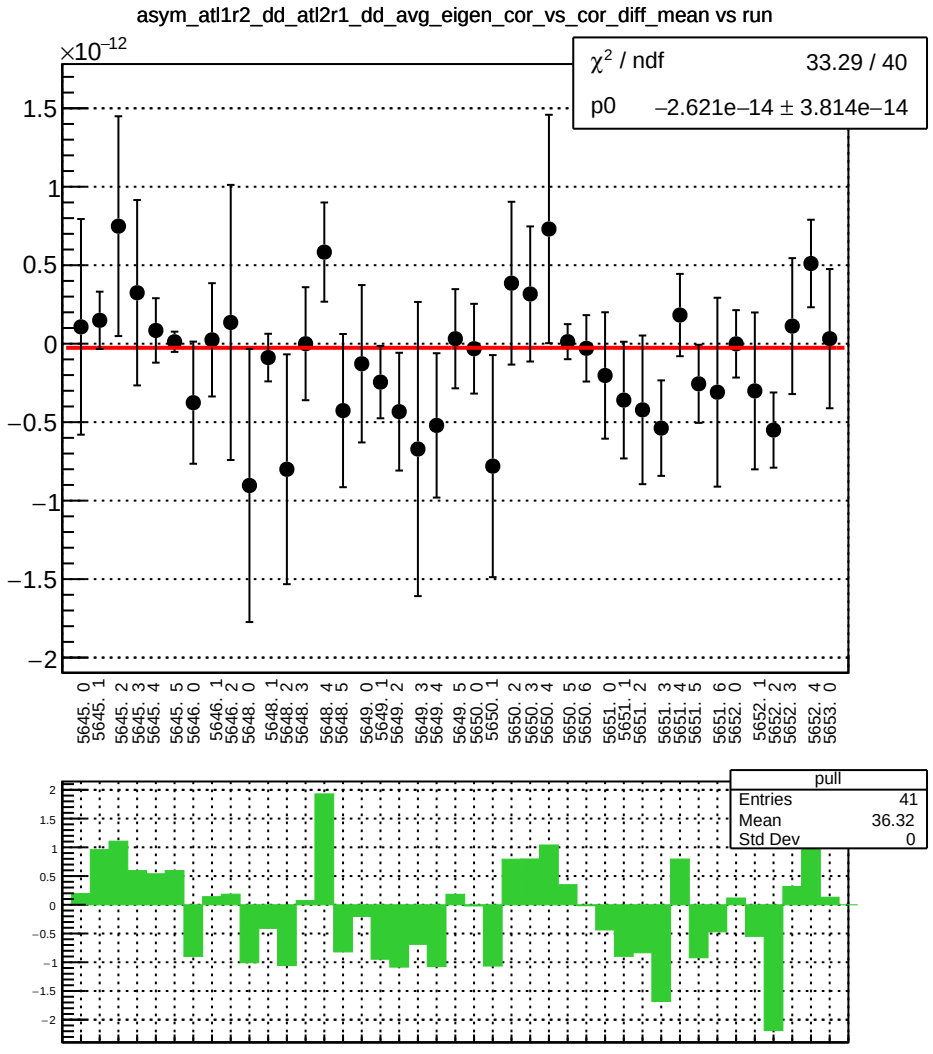
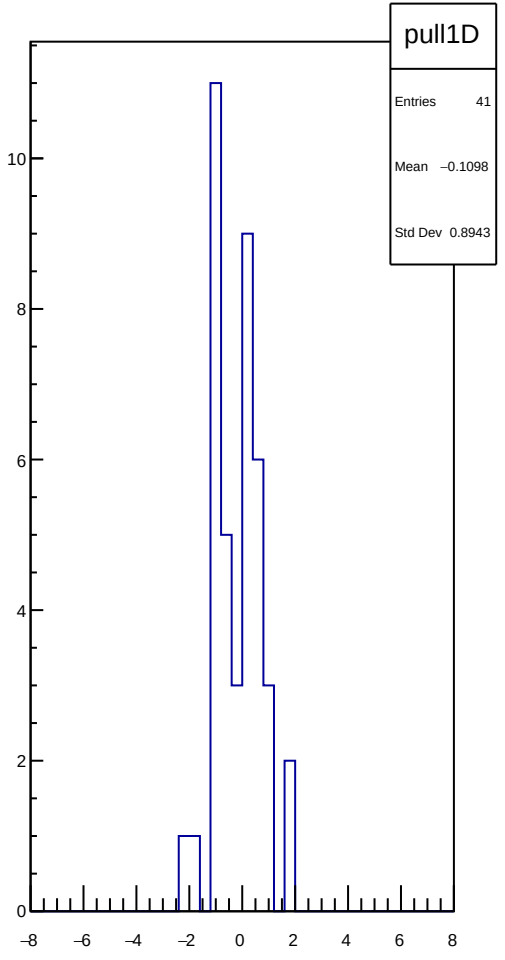
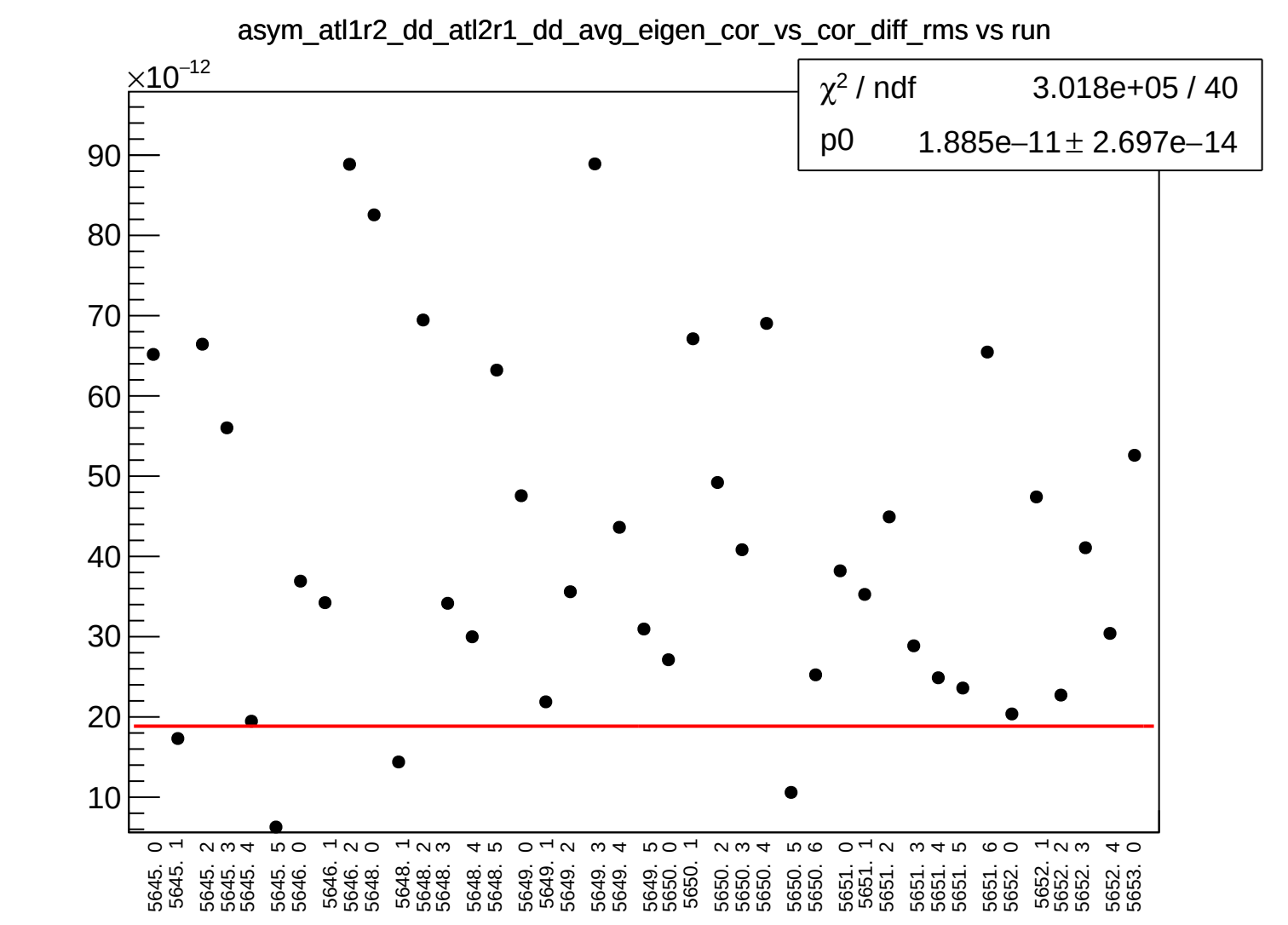
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

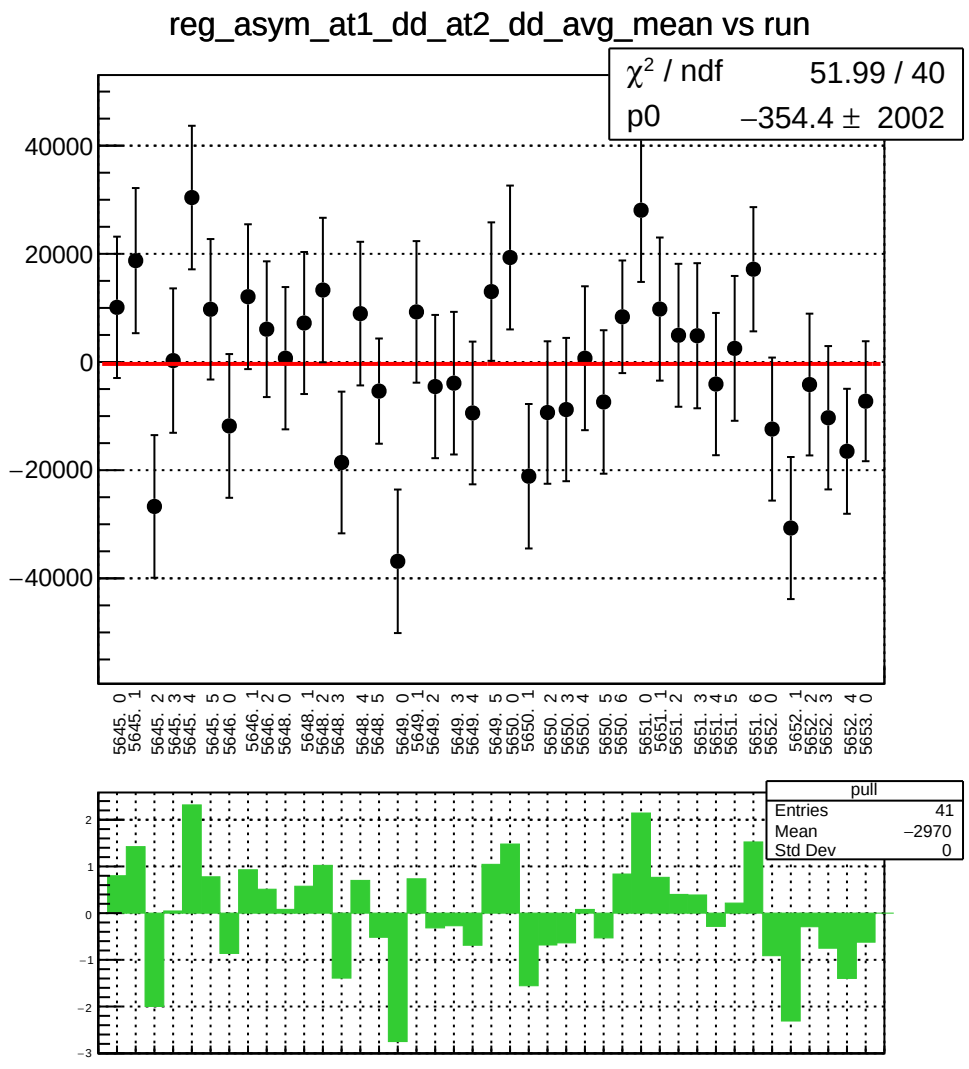

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.66 / 40
p0 0.03789 ± 0.04311
pull
Entries 41
Mean 29.08
Std Dev 36.24
pull1D
Entries 41
Mean 0.01603
Std Dev 0.9193

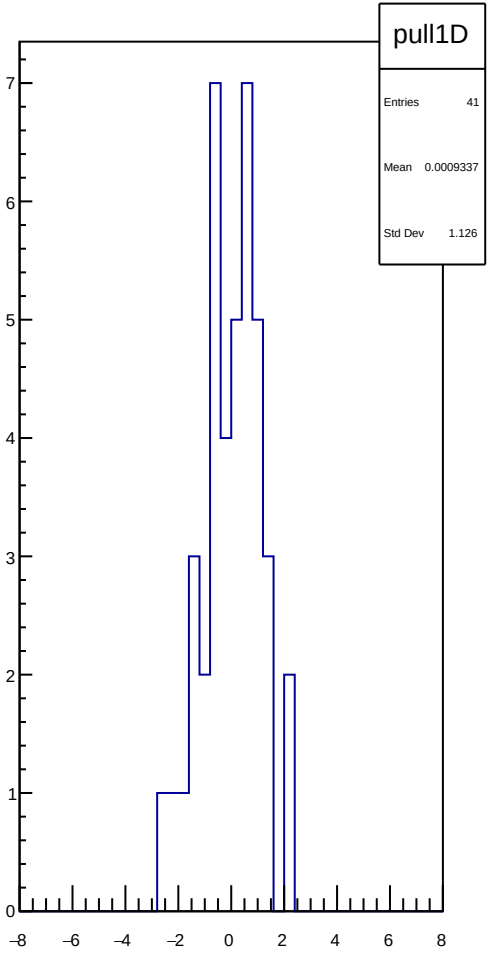

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.642e+04 / 40
p0 25.76 ± 0.03049
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

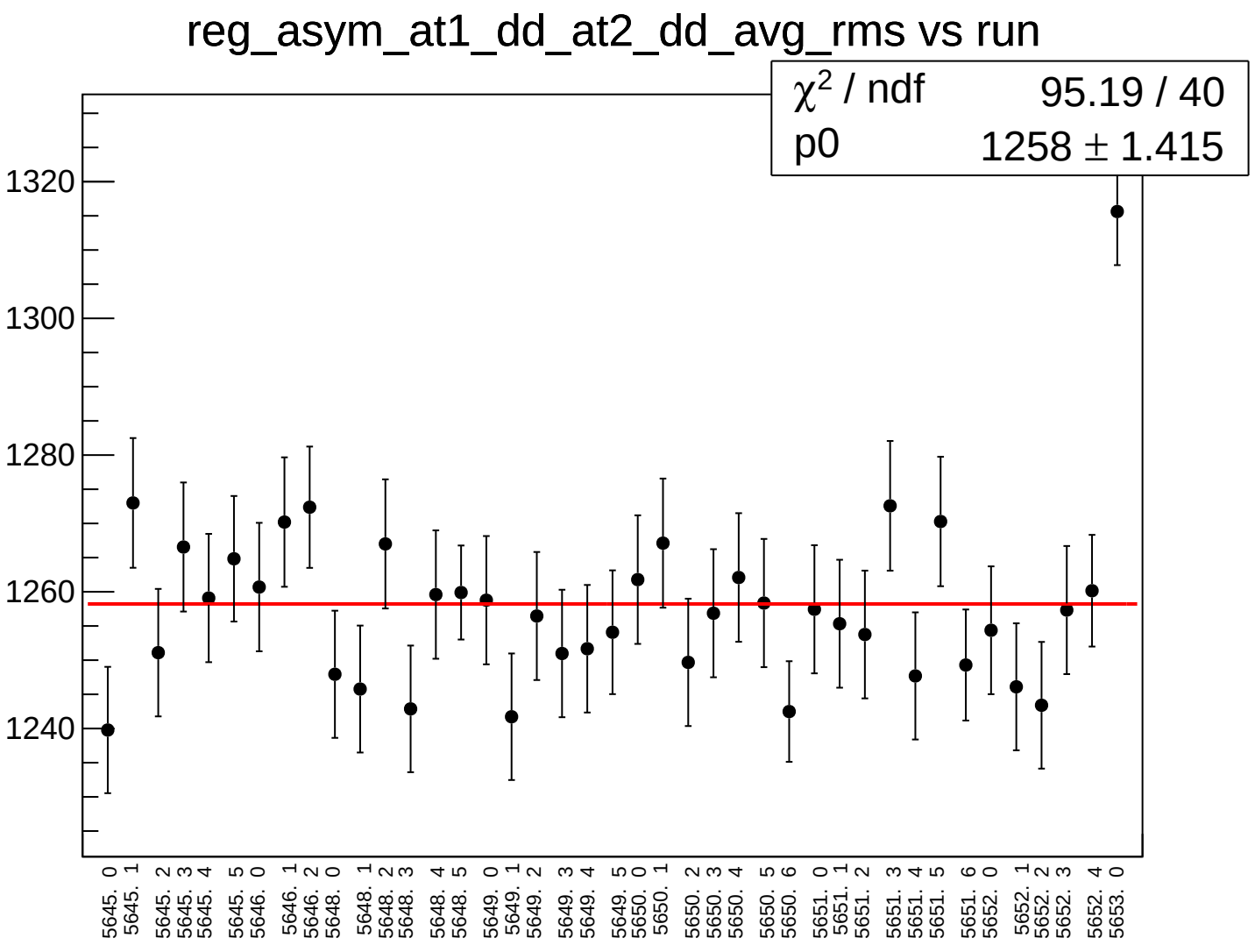

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.29 / 40
p0 −2.621e−14 ± 3.814e−14
pull
Entries 41
Mean 36.32
Std Dev 0

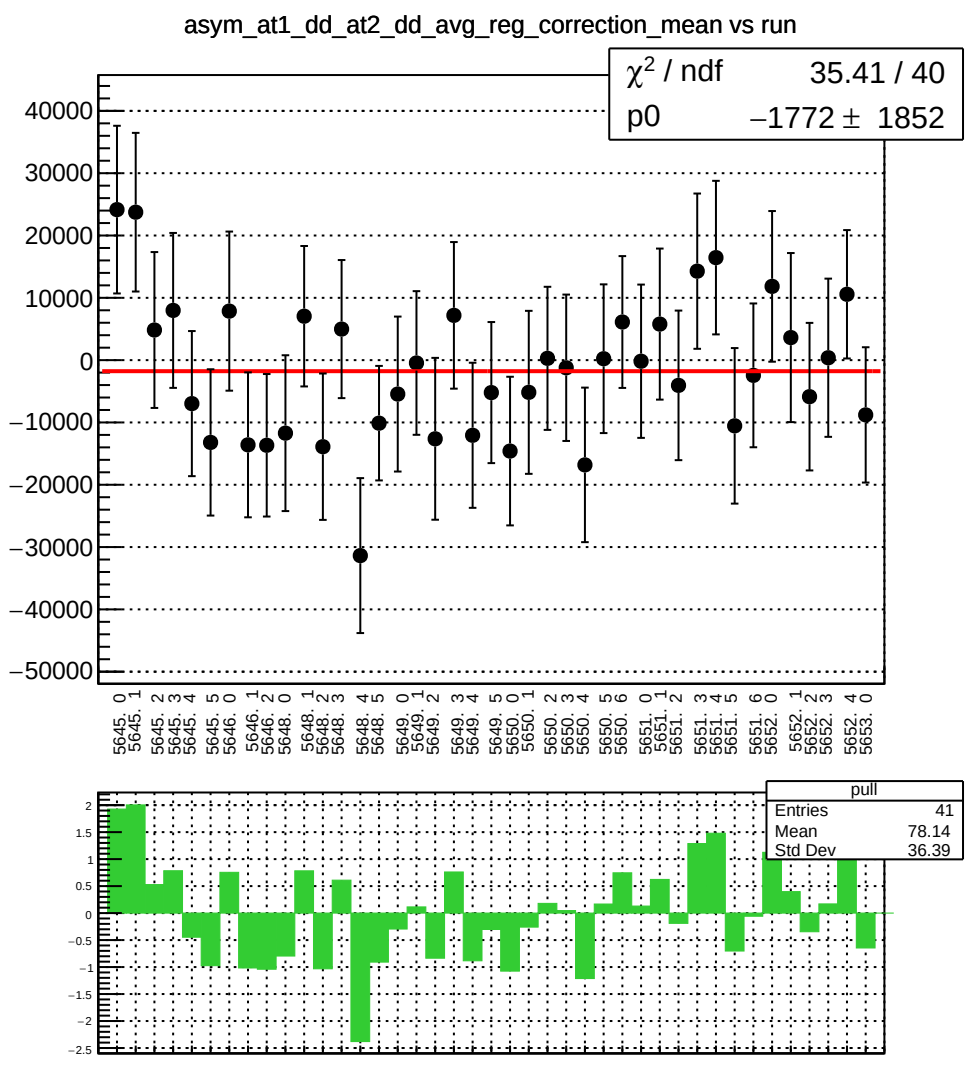

pull1D
Entries 41
Mean −0.1098
Std Dev 0.8943

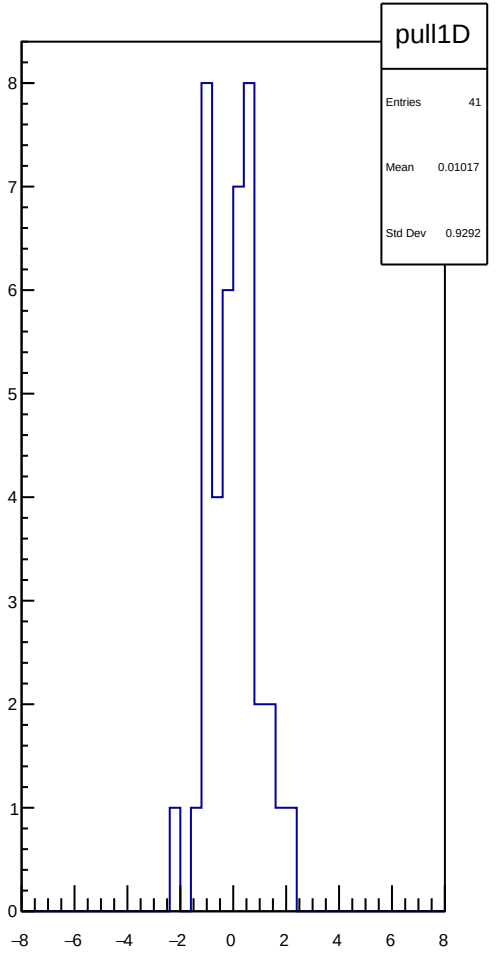

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.018e+05 / 40
p0 1.885e−11 ± 2.697e−14
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

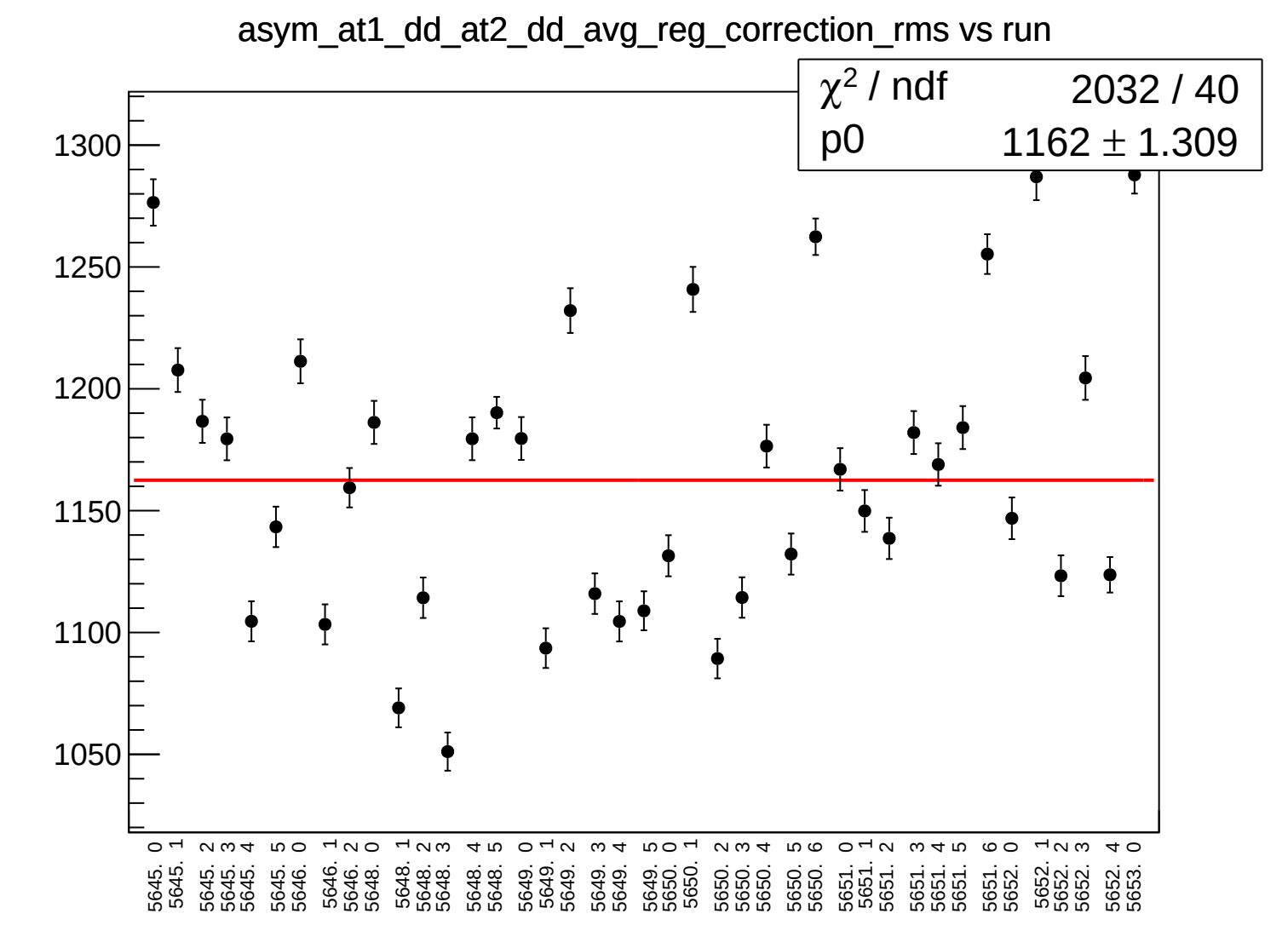

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 51.99 / 40
p0 −354.4 ± 2002
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2970
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.0009337
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.19 / 40
p0 1258 ± 1.415
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 35.41 / 40
p0 −1772 ± 1852
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.14
Std Dev 36.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.01017
Std Dev 0.9292
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 2032 / 40
p0 1162 ± 1.309
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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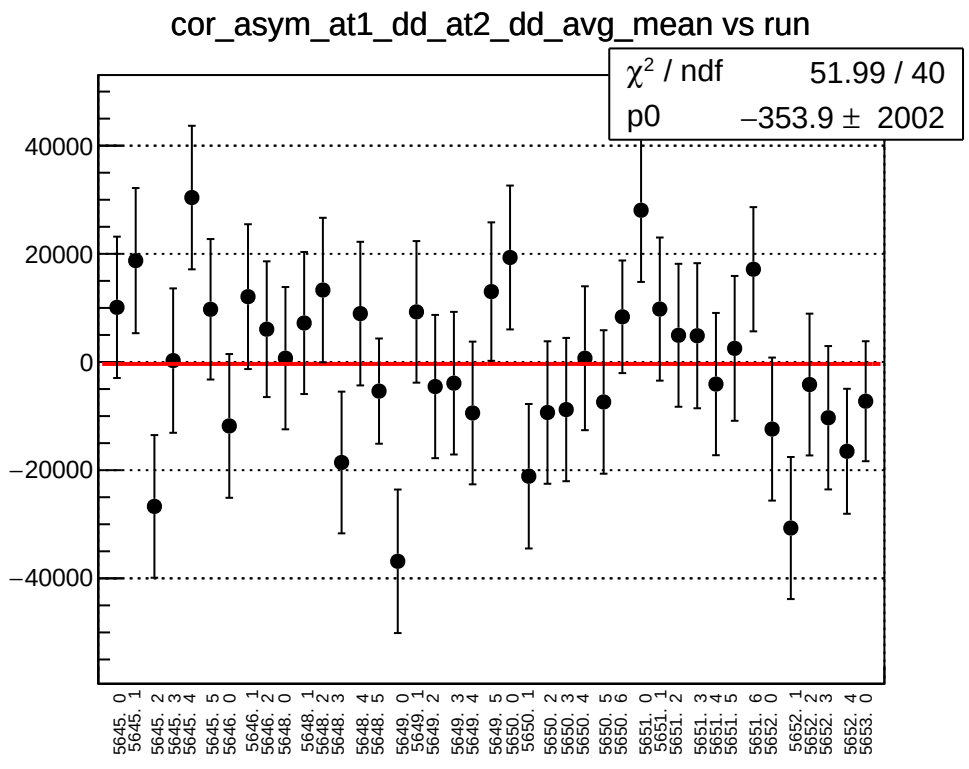
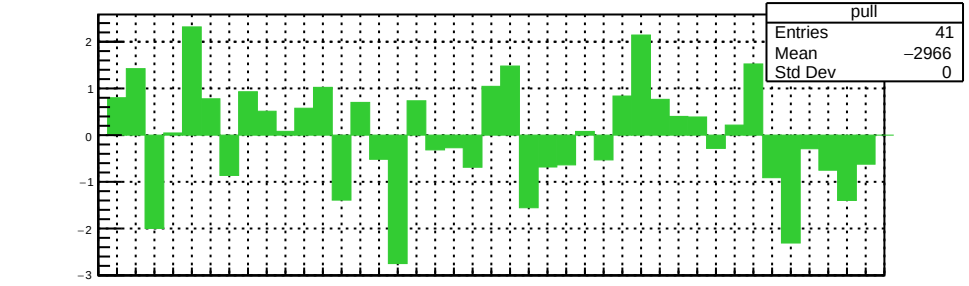
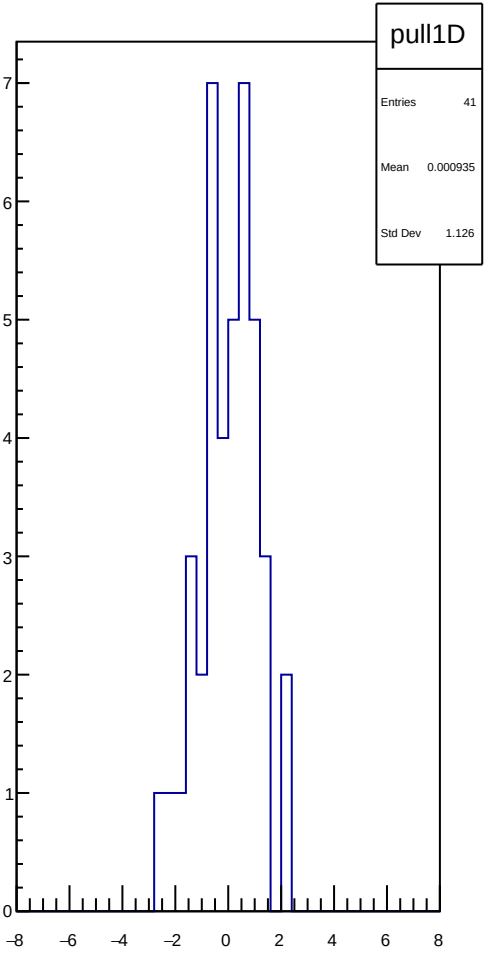
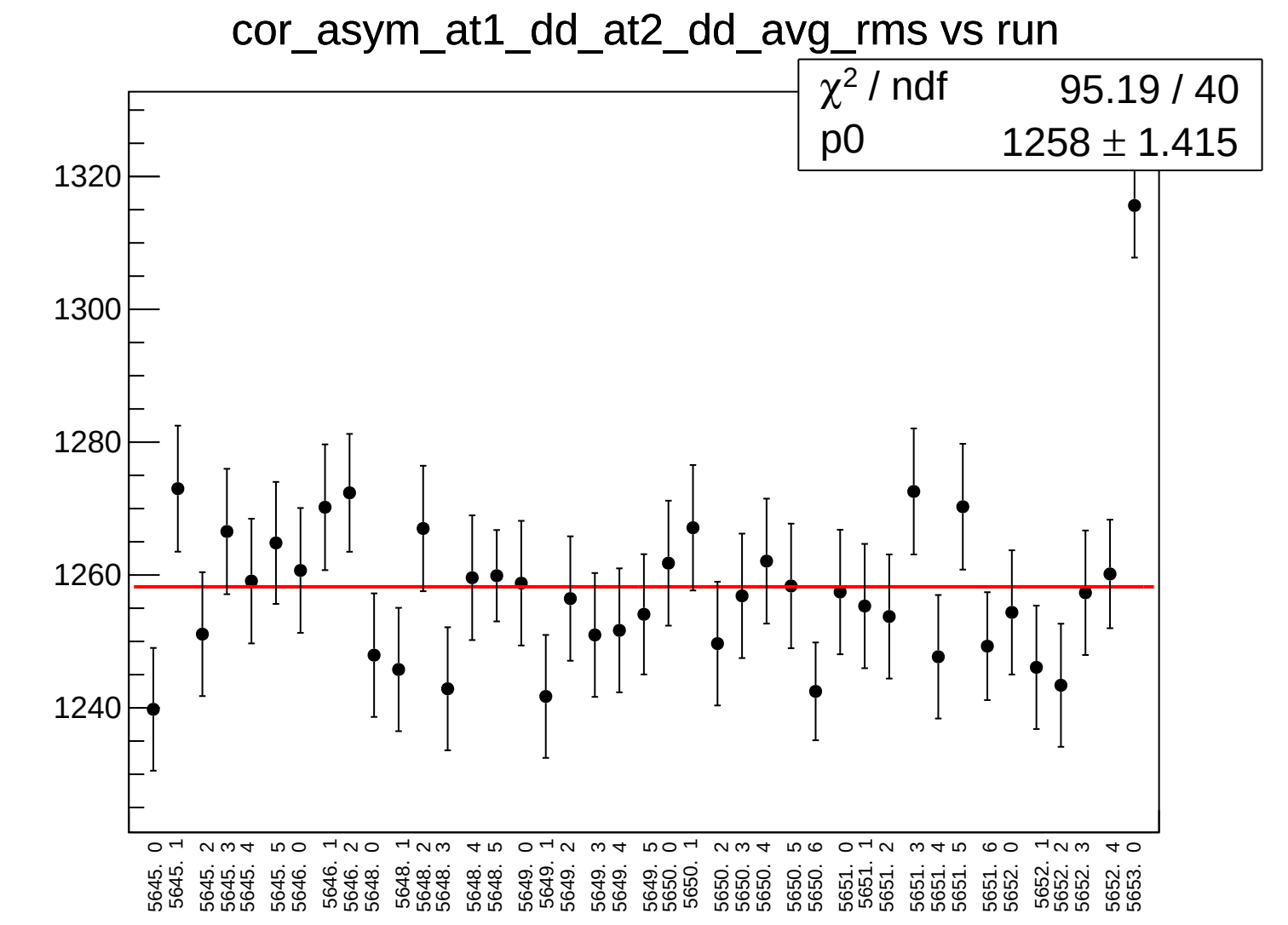
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 51.99 / 40
p0 −353.9 ± 2002
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


pull
Entries 41
Mean −2966
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.000935
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.19 / 40
p0 1258 ± 1.415
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
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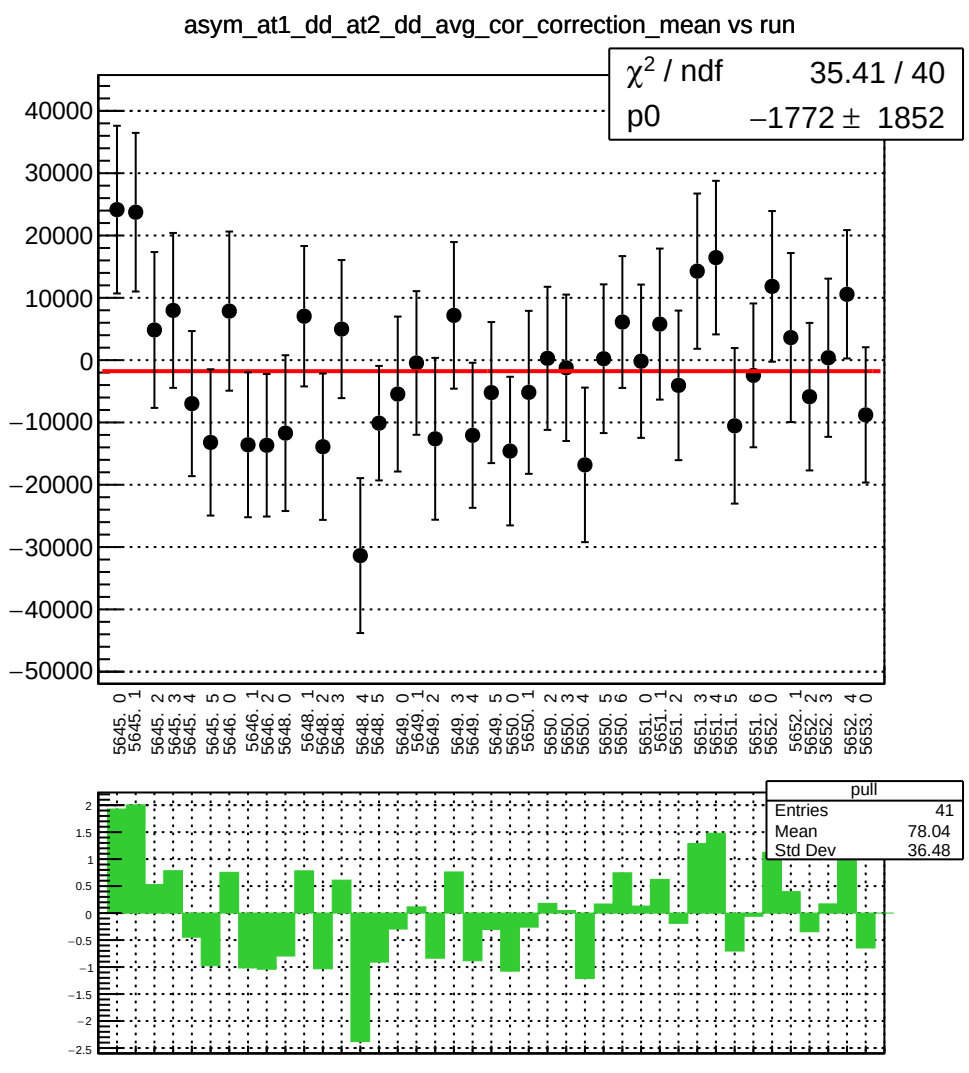
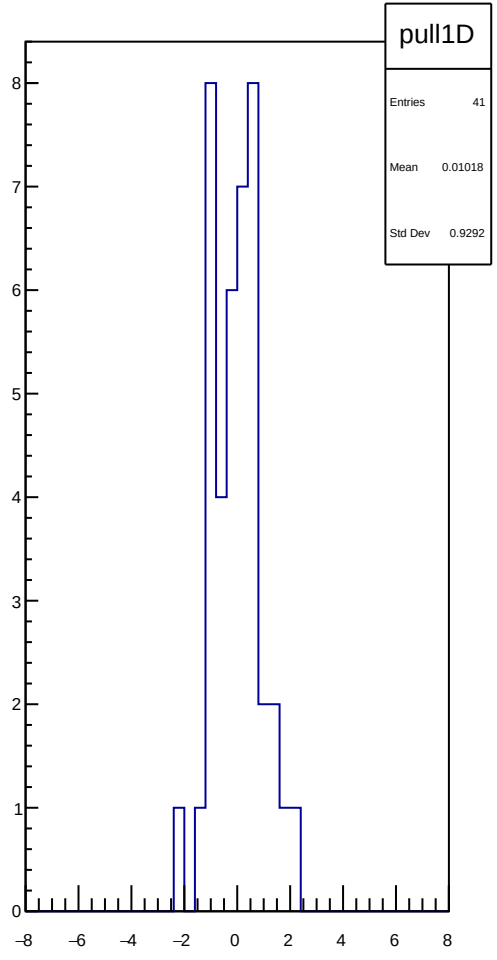
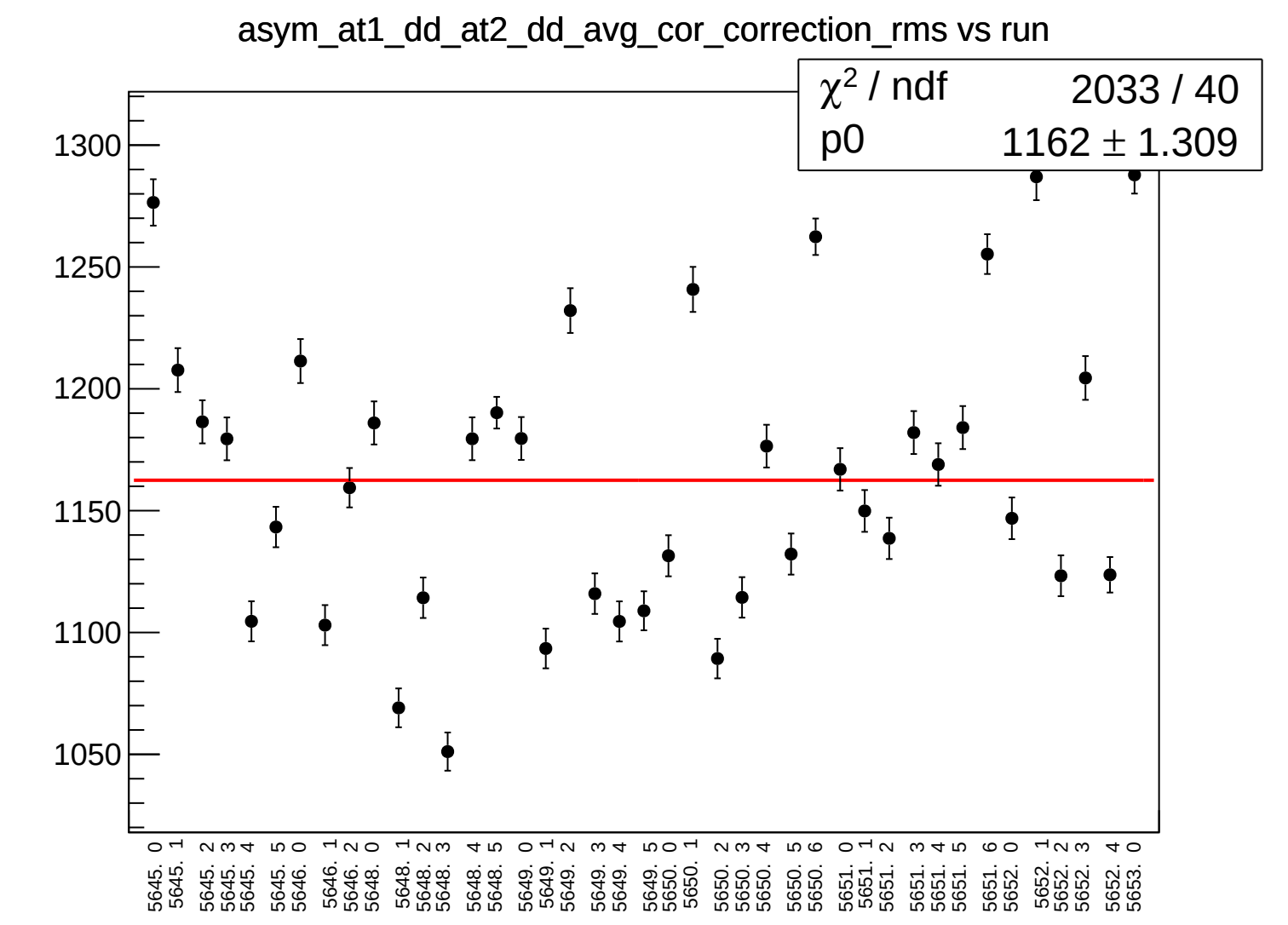
5652. 2
5652. 3
5652. 4
5653. 0


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 35.41 / 40
p0 −1772 ± 1852
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.04
Std Dev 36.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.01018
Std Dev 0.9292
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 2033 / 40
p0 1162 ± 1.309
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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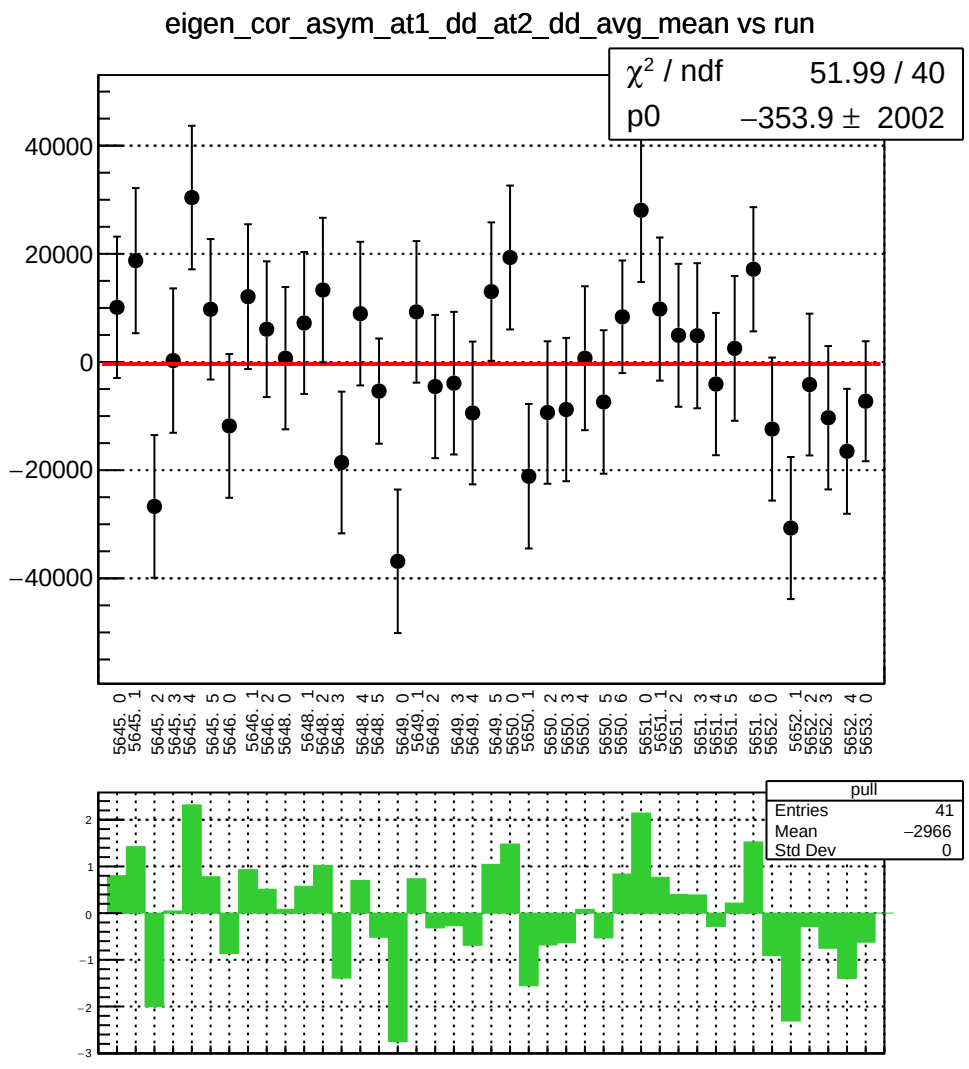
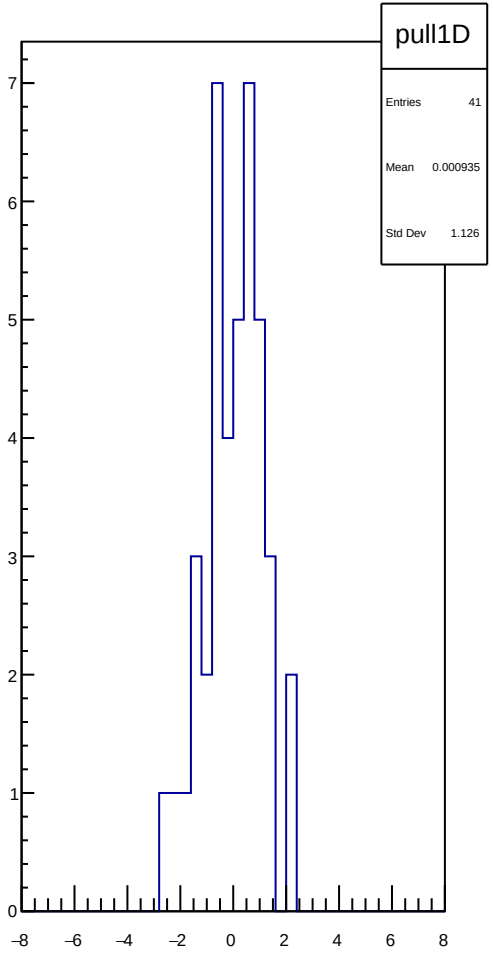
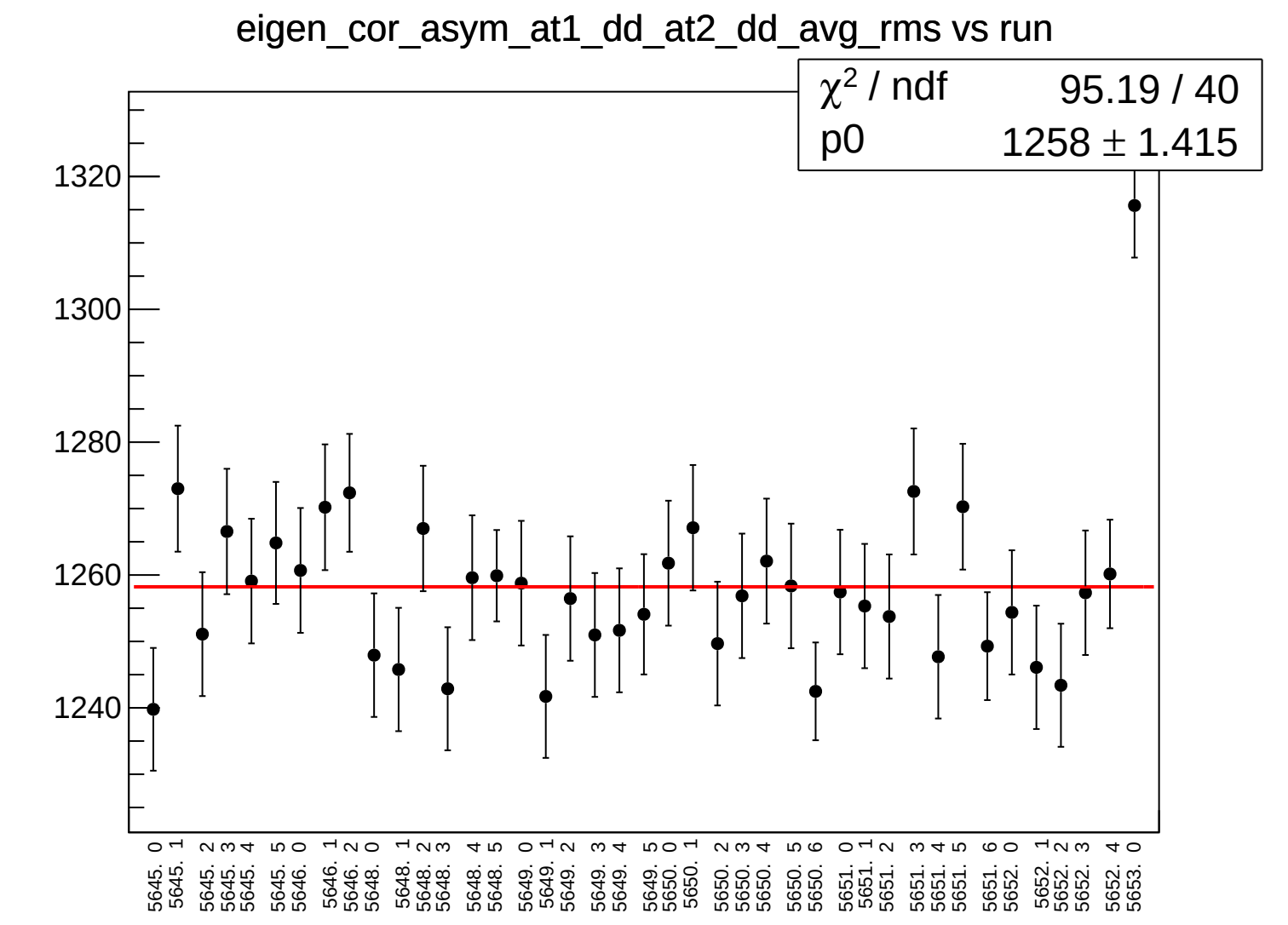
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 51.99 / 40
p0 −353.9 ± 2002
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2966
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.000935
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 95.19 / 40
p0 1258 ± 1.415
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
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5651. 5
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5652. 2
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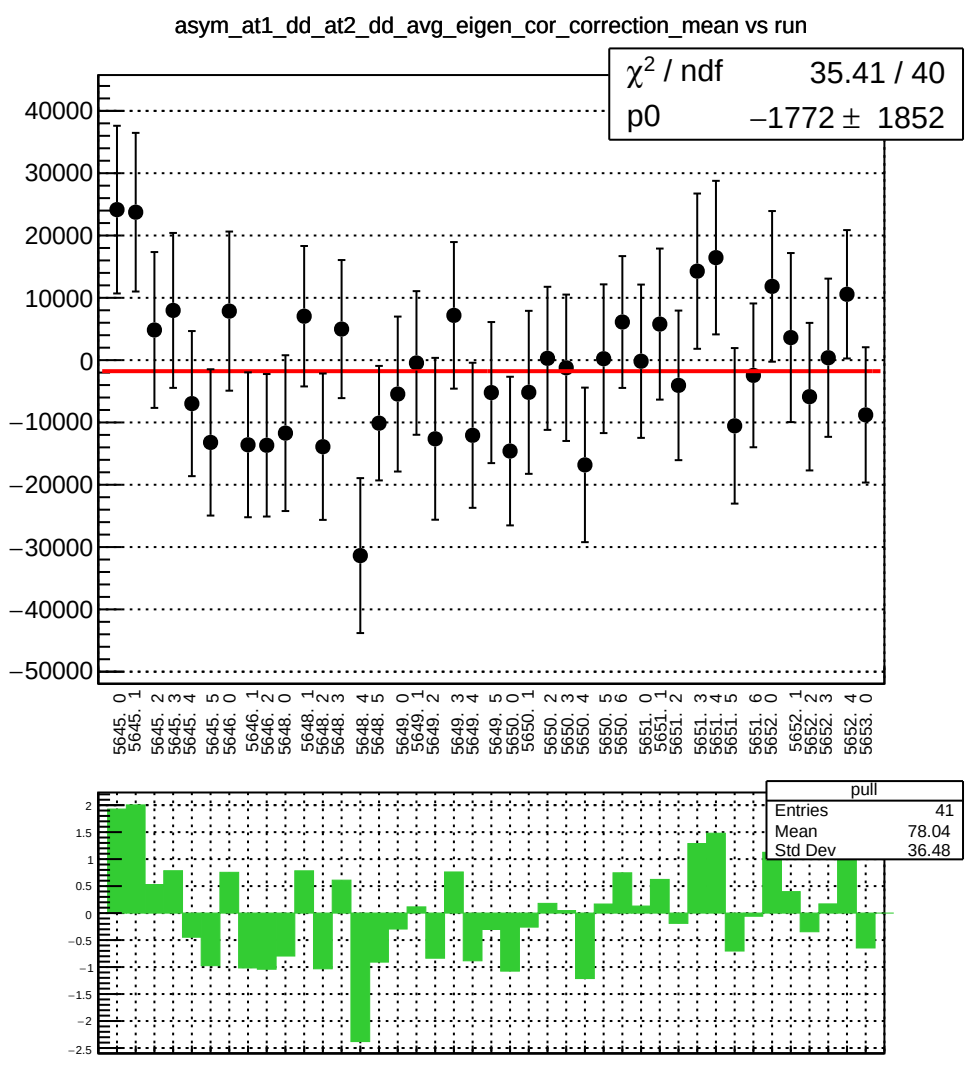
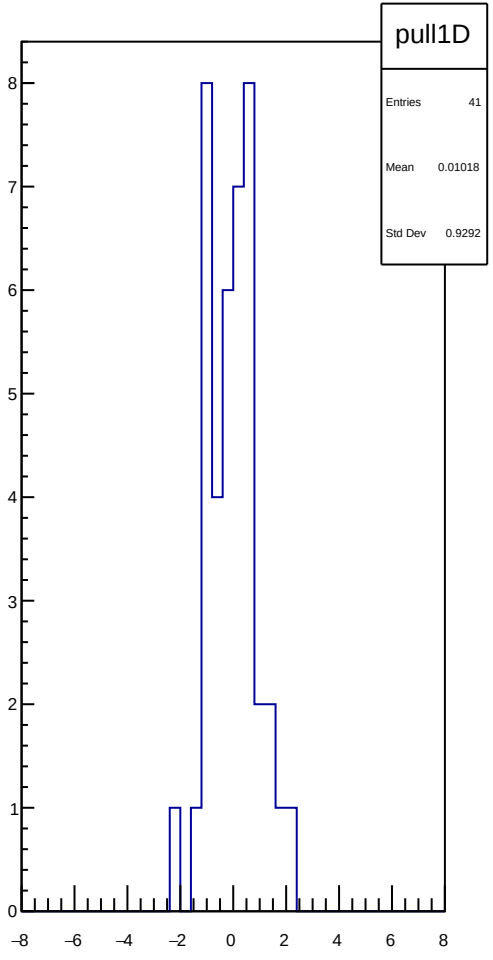
5652. 4
5653. 0


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 35.41 / 40
p0 −1772 ± 1852
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.04
Std Dev 36.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 41
Mean 0.01018
Std Dev 0.9292
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7
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5
4
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0
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−4
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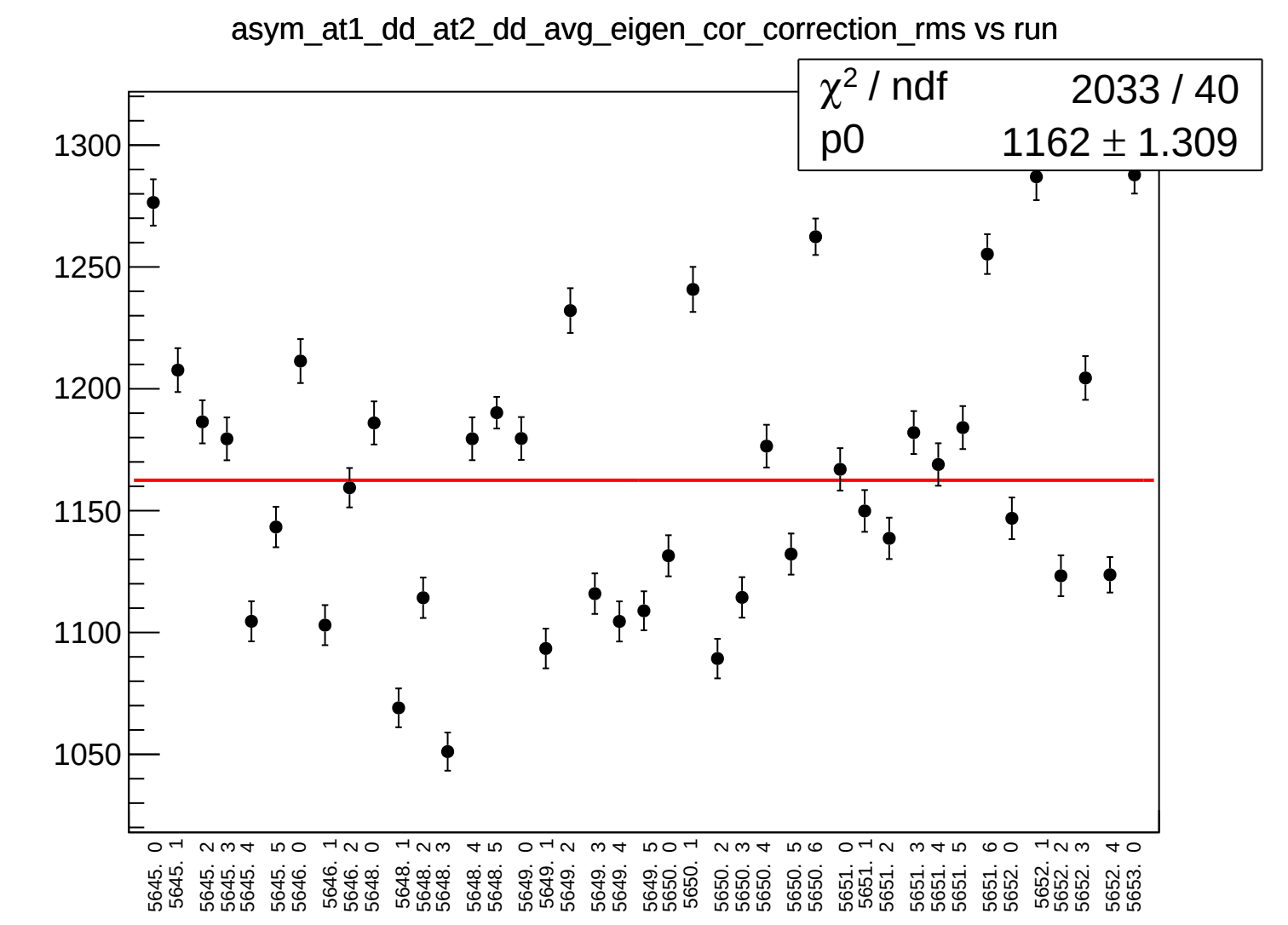
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2033 / 40
p0 1162 ± 1.309
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
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5649. 2
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5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
5652. 0
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5652. 2
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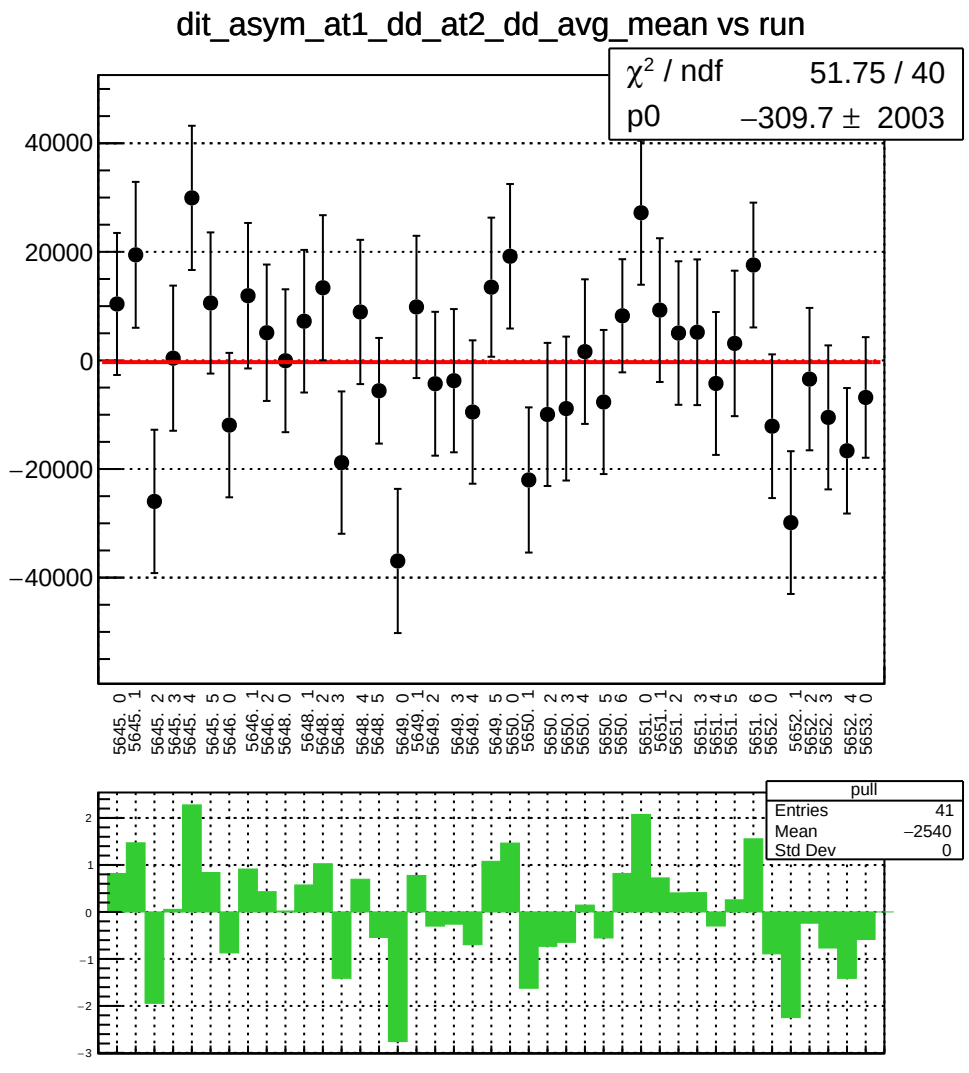
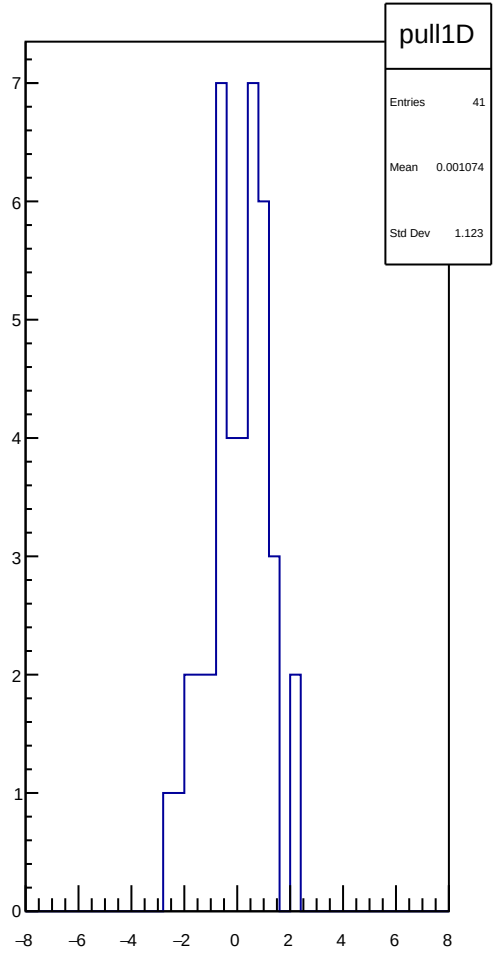
5652. 4
5653. 0


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 51.75 / 40
p0 −309.7 ± 2003
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2540
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.001074
Std Dev 1.123
7
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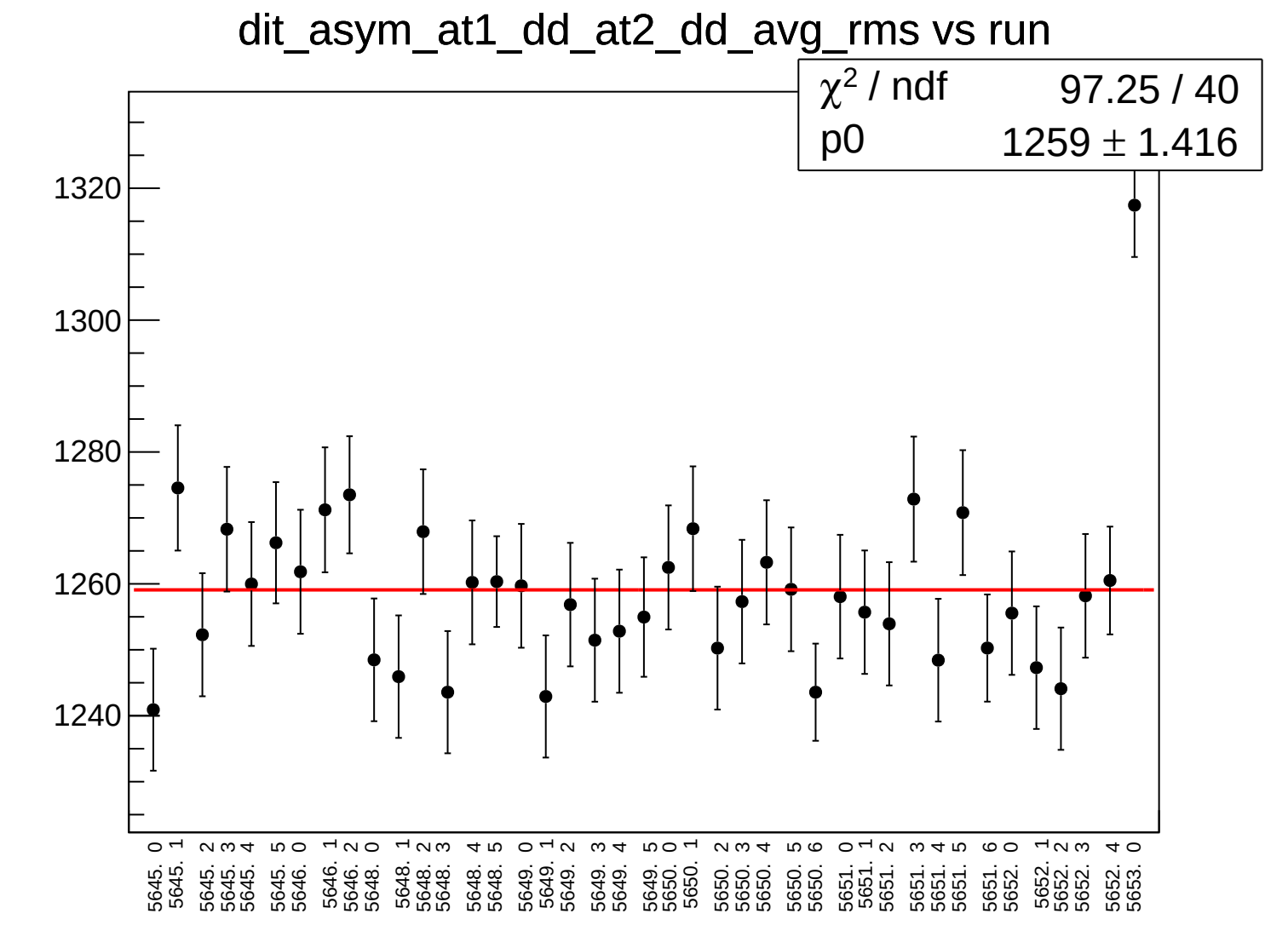
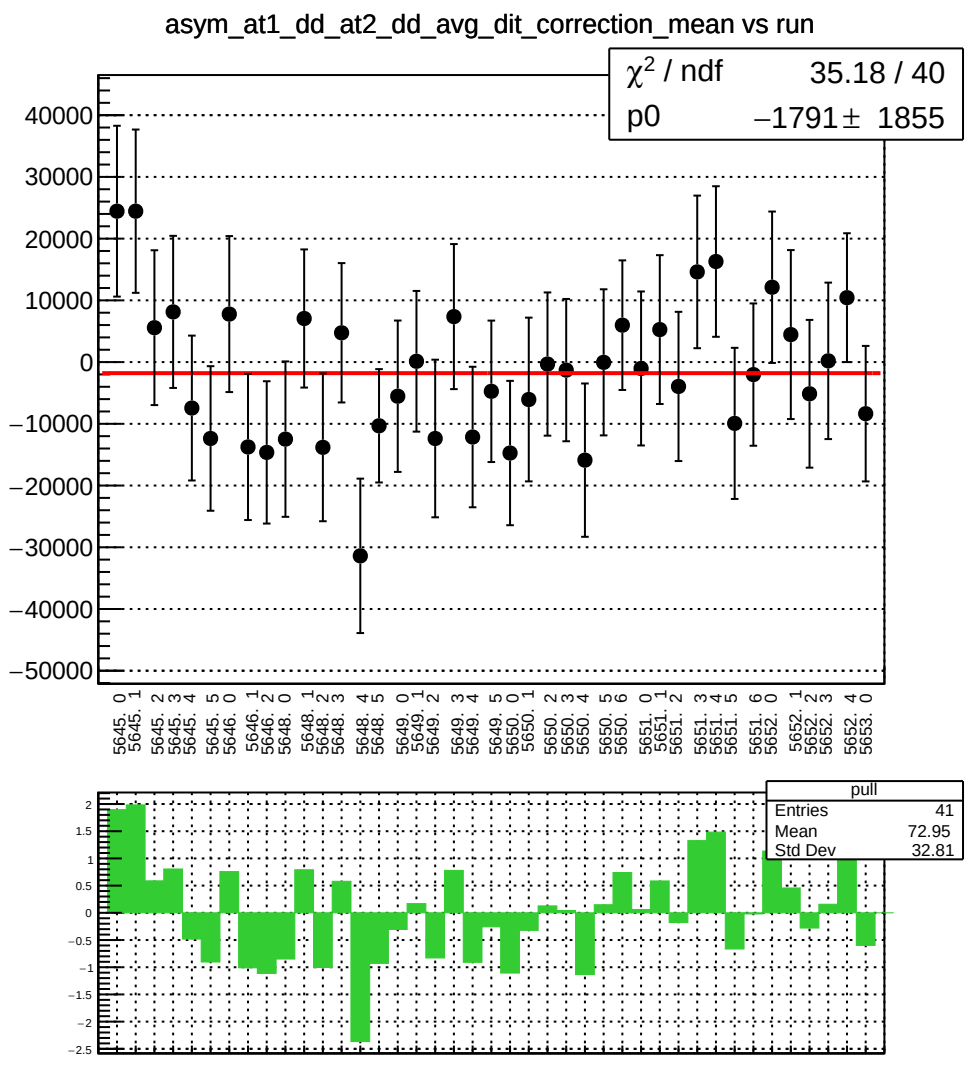
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 97.25 / 40
p0 1259 ± 1.416
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 35.18 / 40
p0 −1791 ± 1855
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
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5646. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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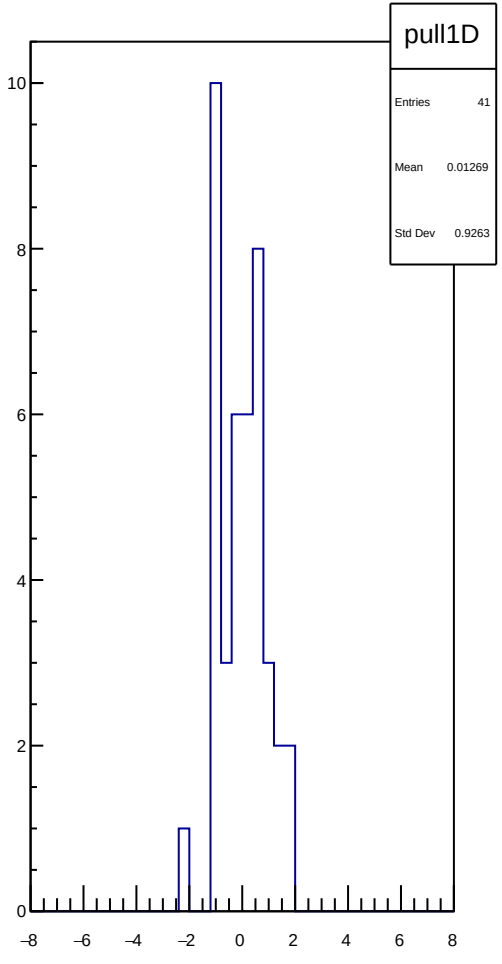
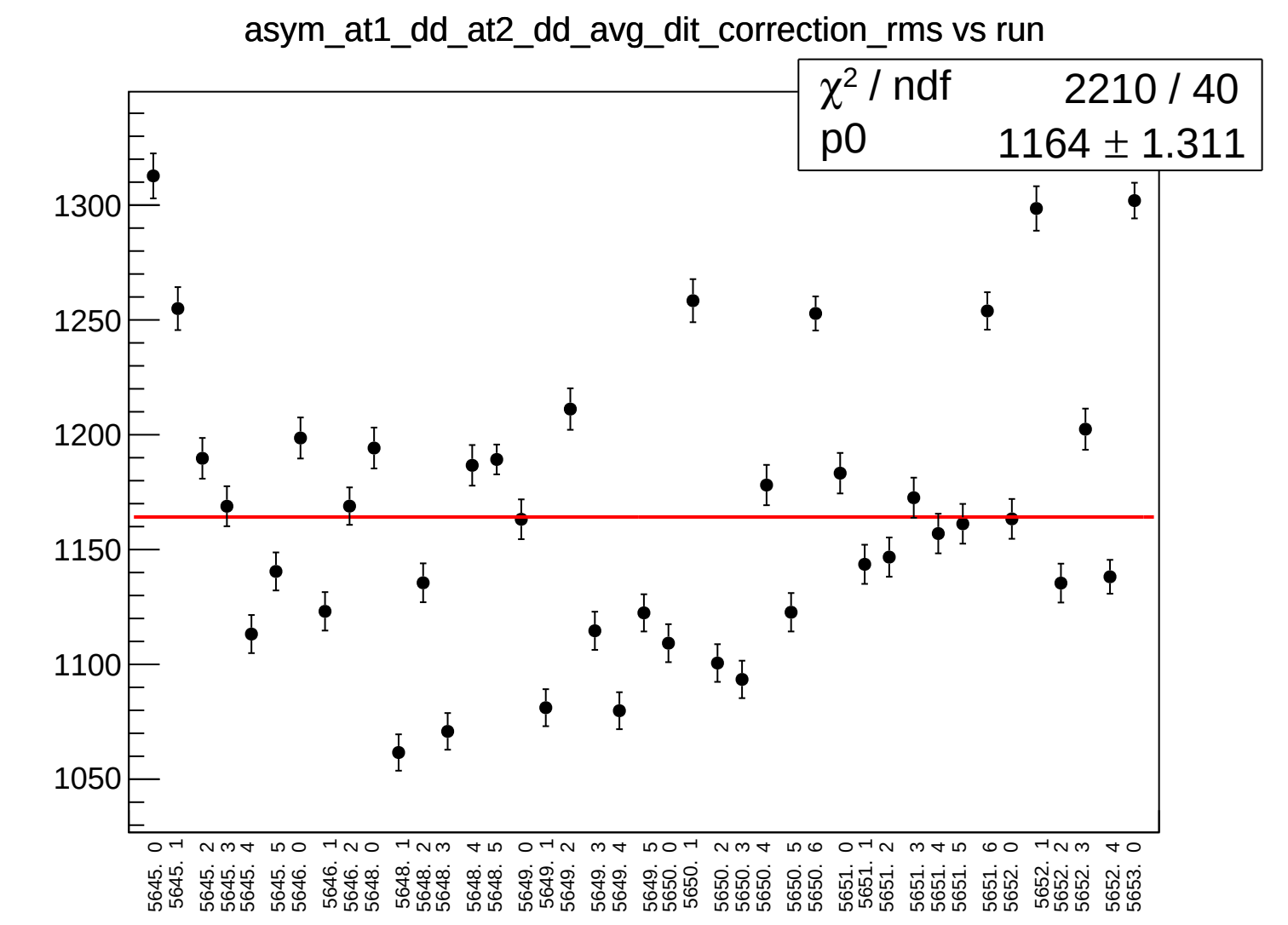
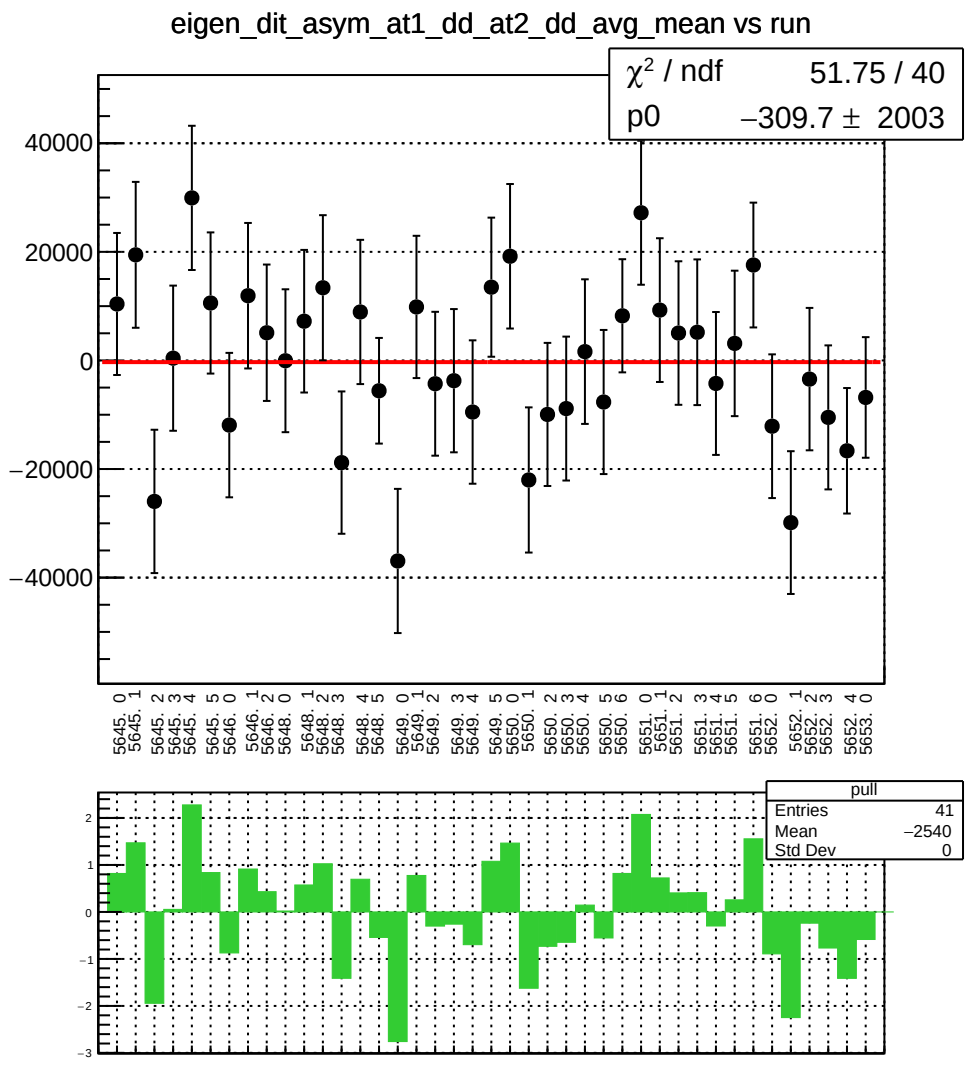
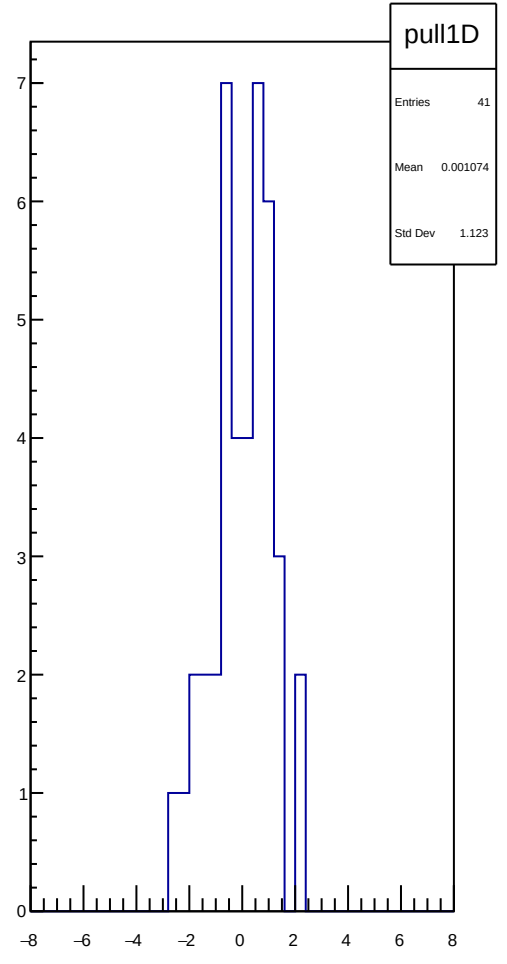
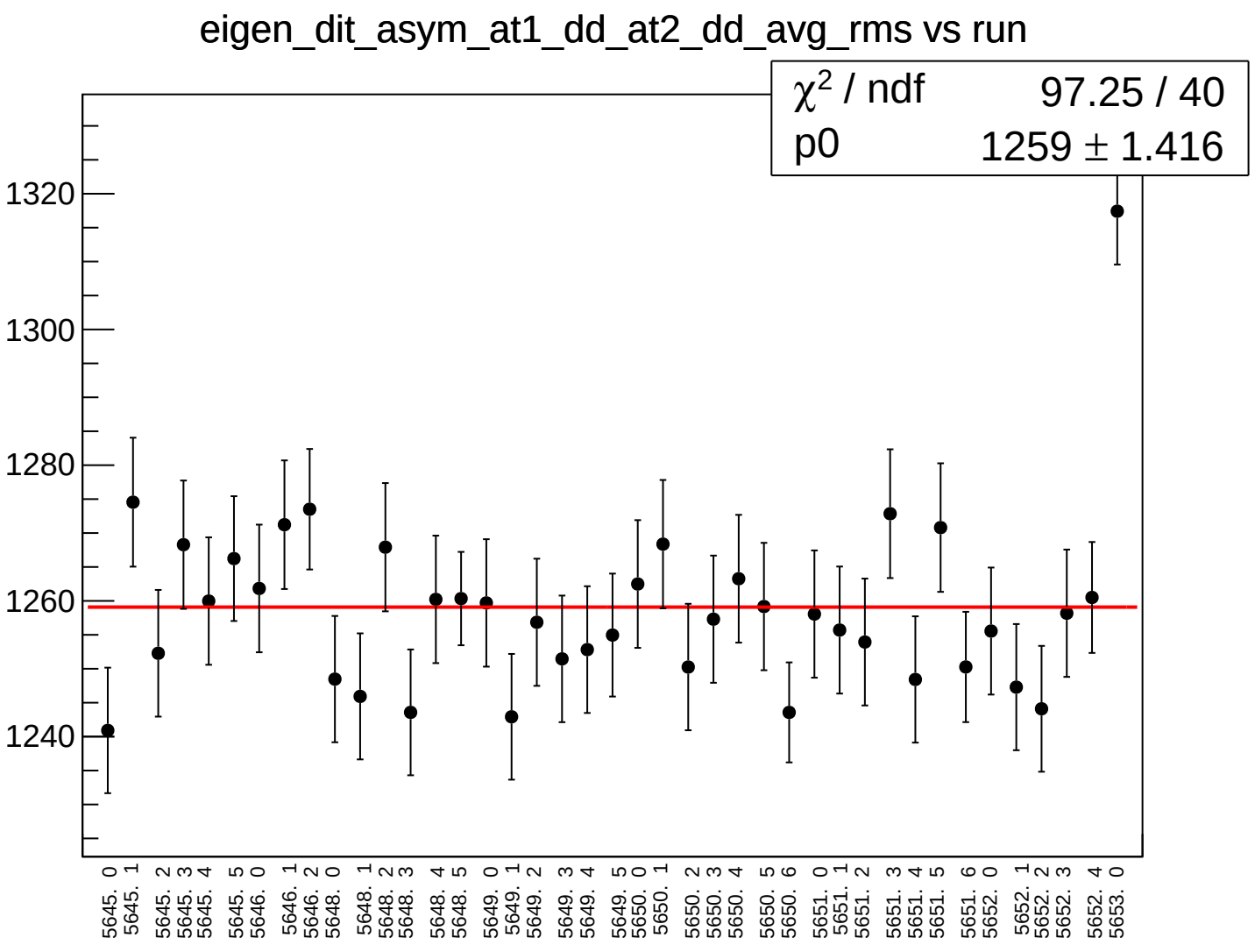
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 72.95
Std Dev 32.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

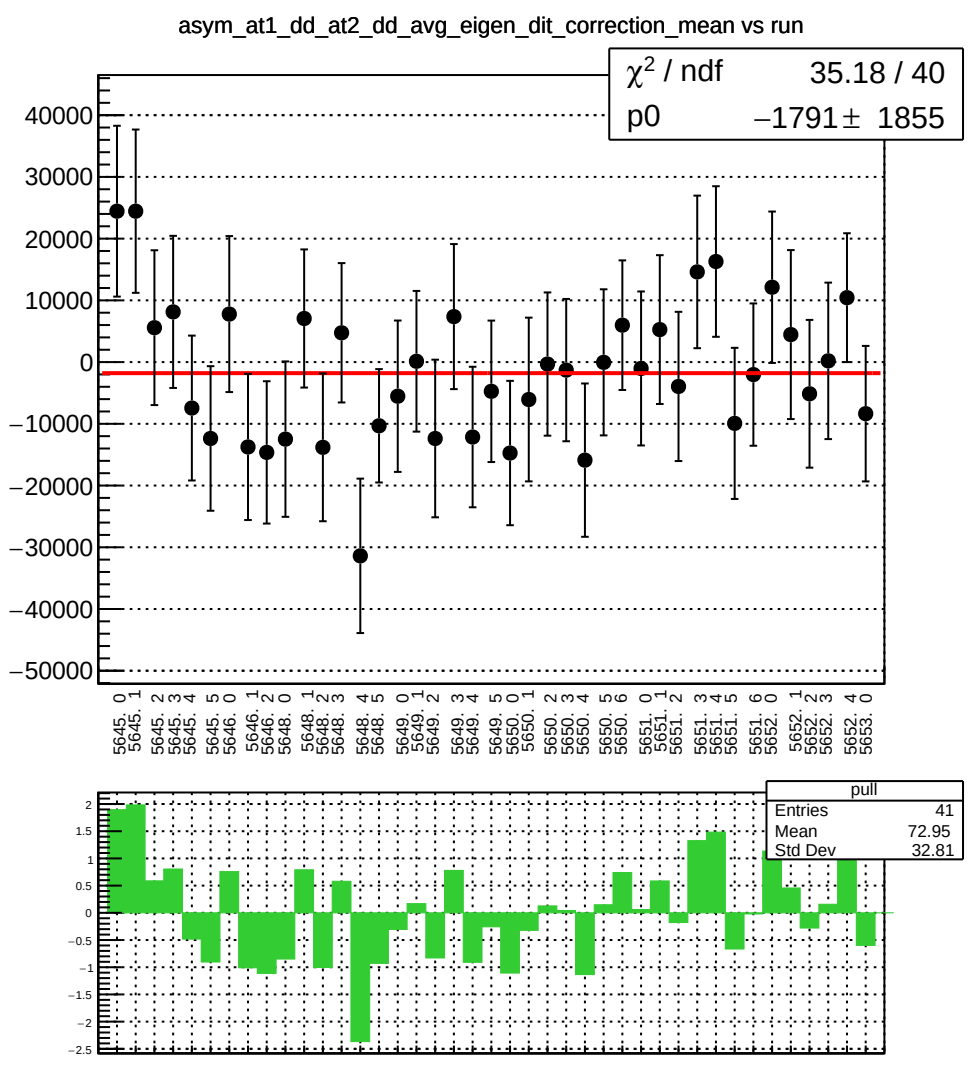

pull1D
Entries 41
Mean 0.01269
Std Dev 0.9263
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

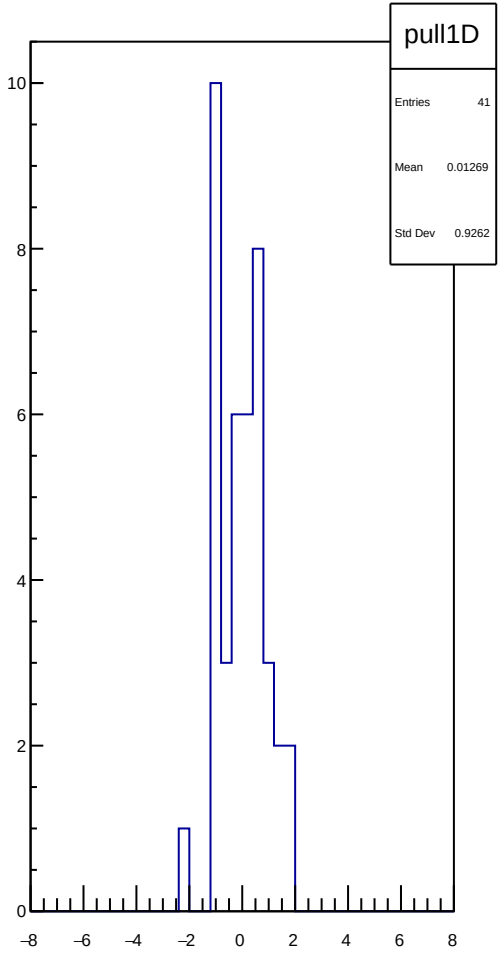

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2210 / 40
p0 1164 ± 1.311
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

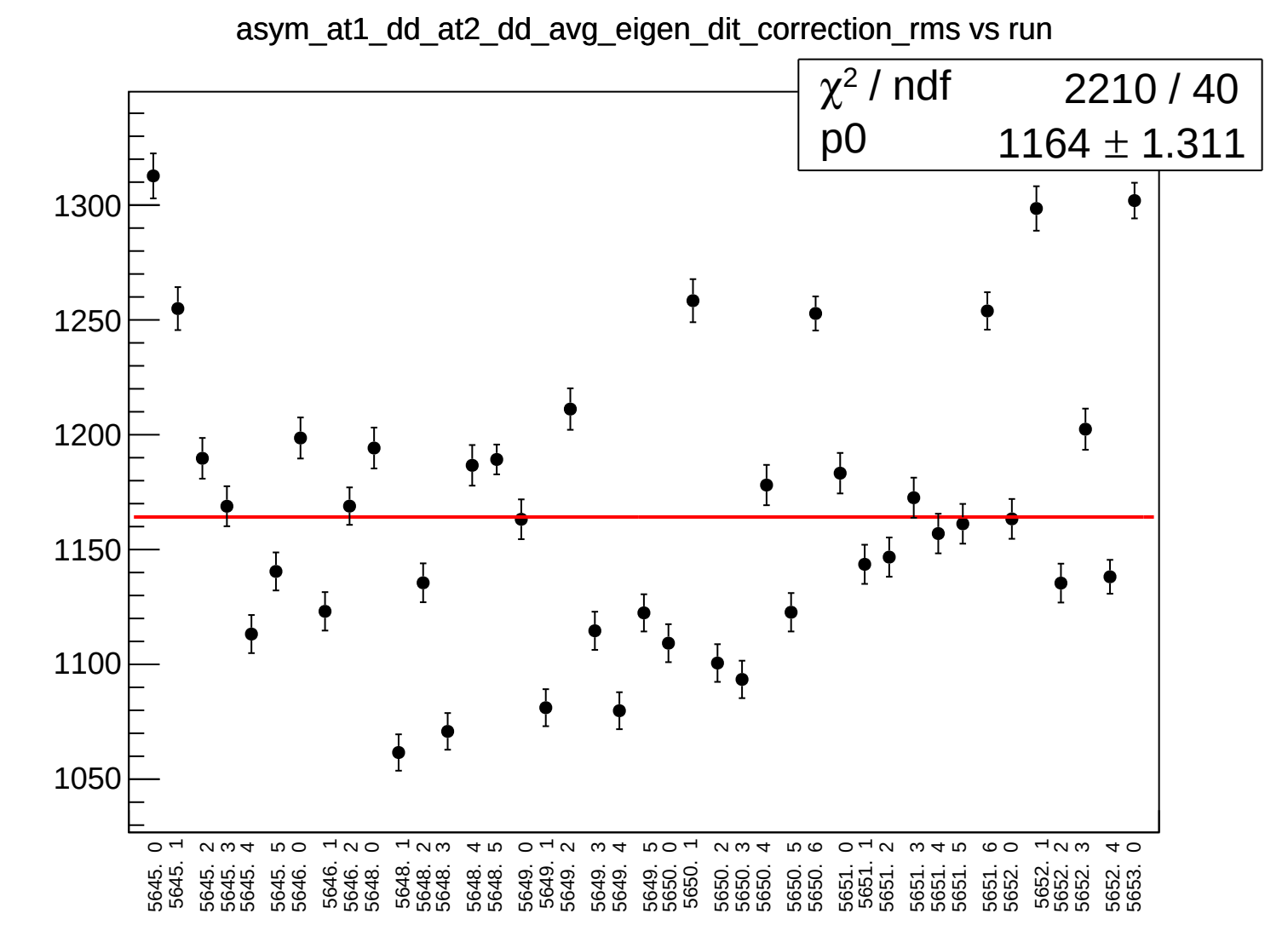

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 51.75 / 40
p0 −309.7 ± 2003
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2540
Std Dev 0
2
1
0
−1
−2
−3

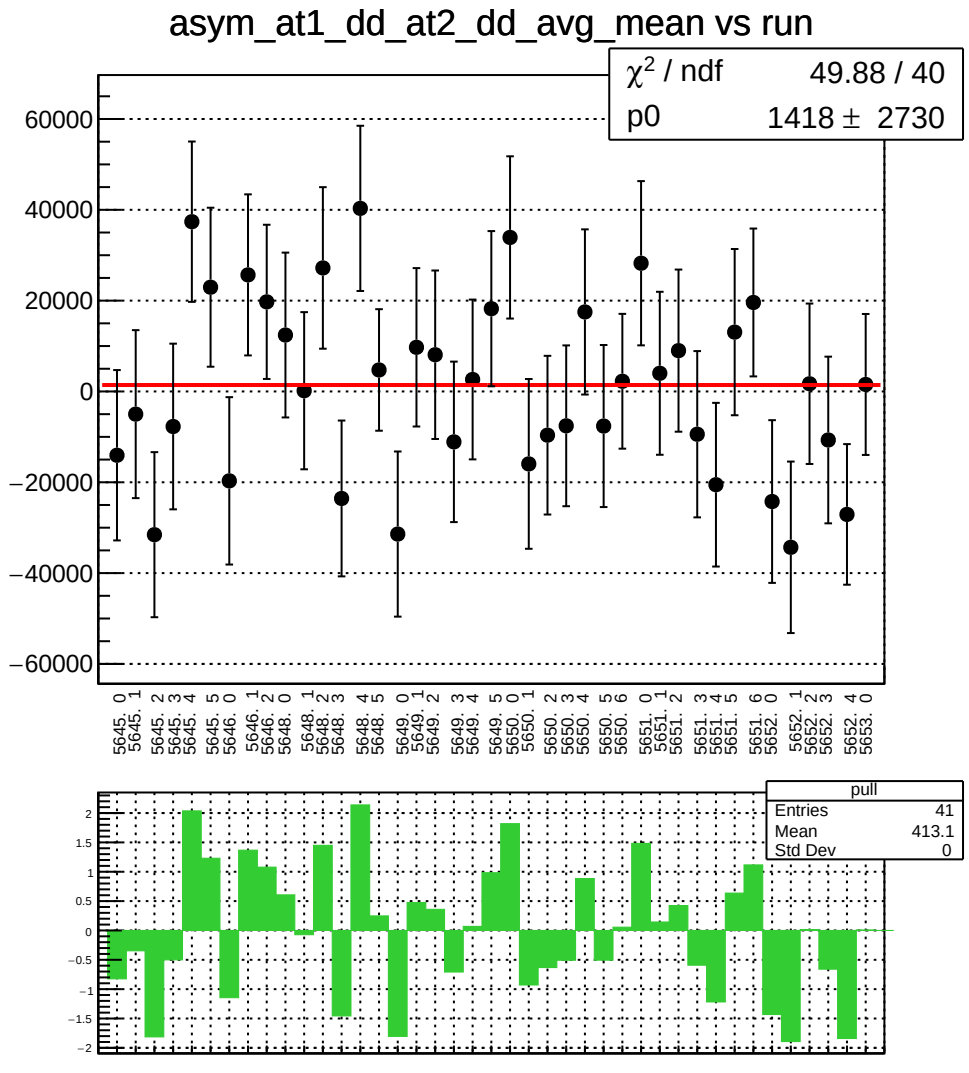

pull1D
Entries 41
Mean 0.001074
Std Dev 1.123
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

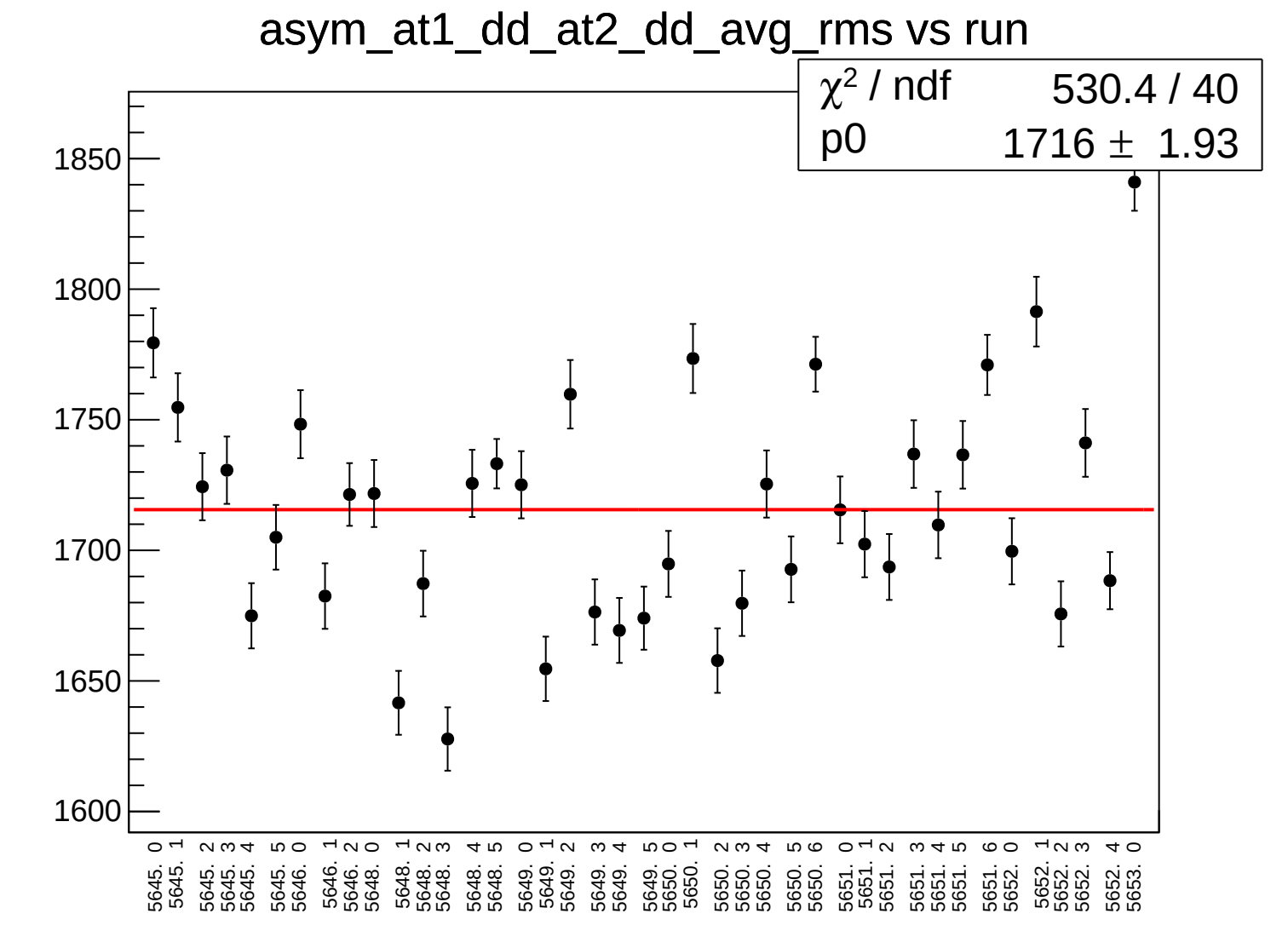

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 97.25 / 40
p0 1259 ± 1.416
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

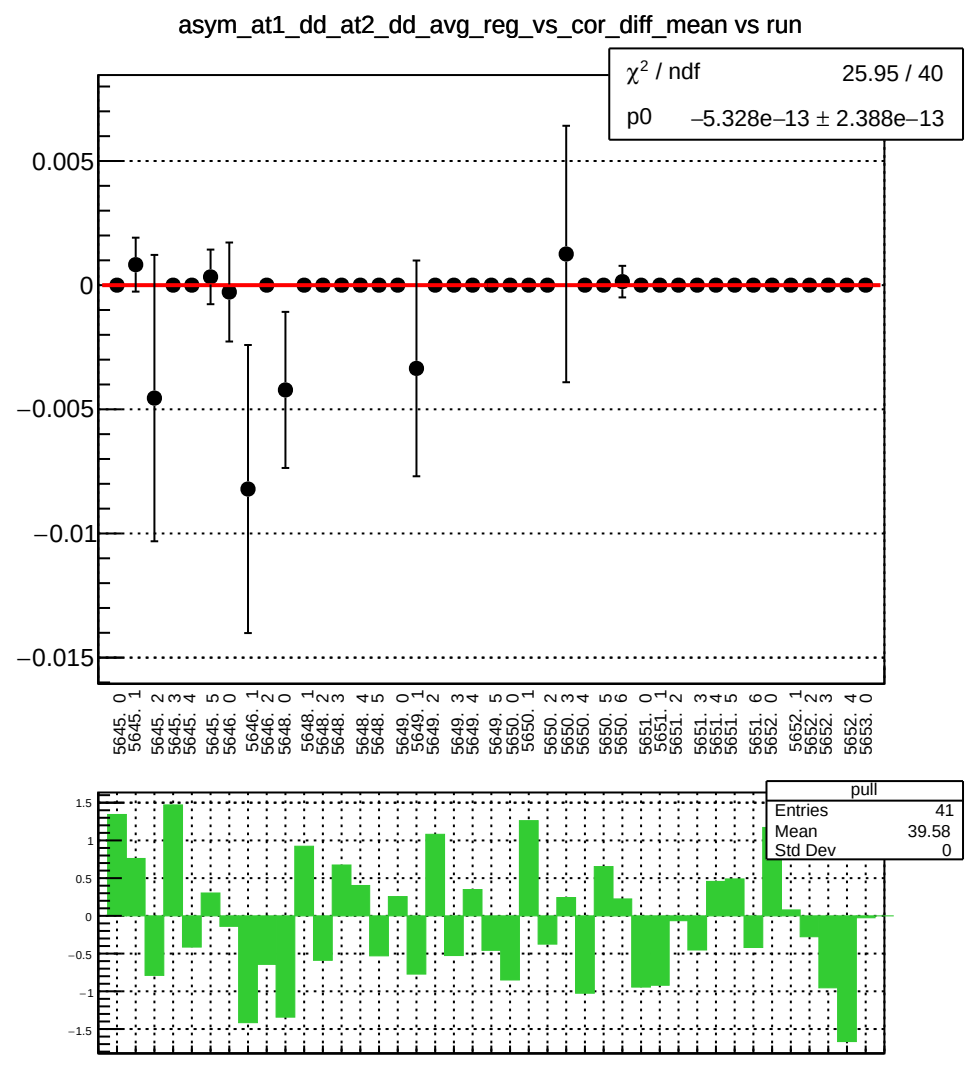

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.18 / 40
p0 −1791 ± 1855
pull
Entries 41
Mean 72.95
Std Dev 32.81

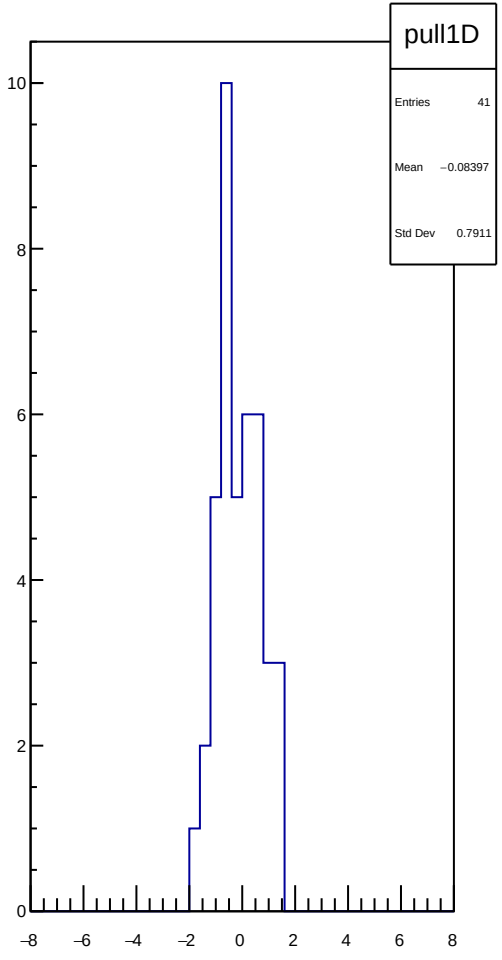

pull1D
Entries 41
Mean 0.01269
Std Dev 0.9262

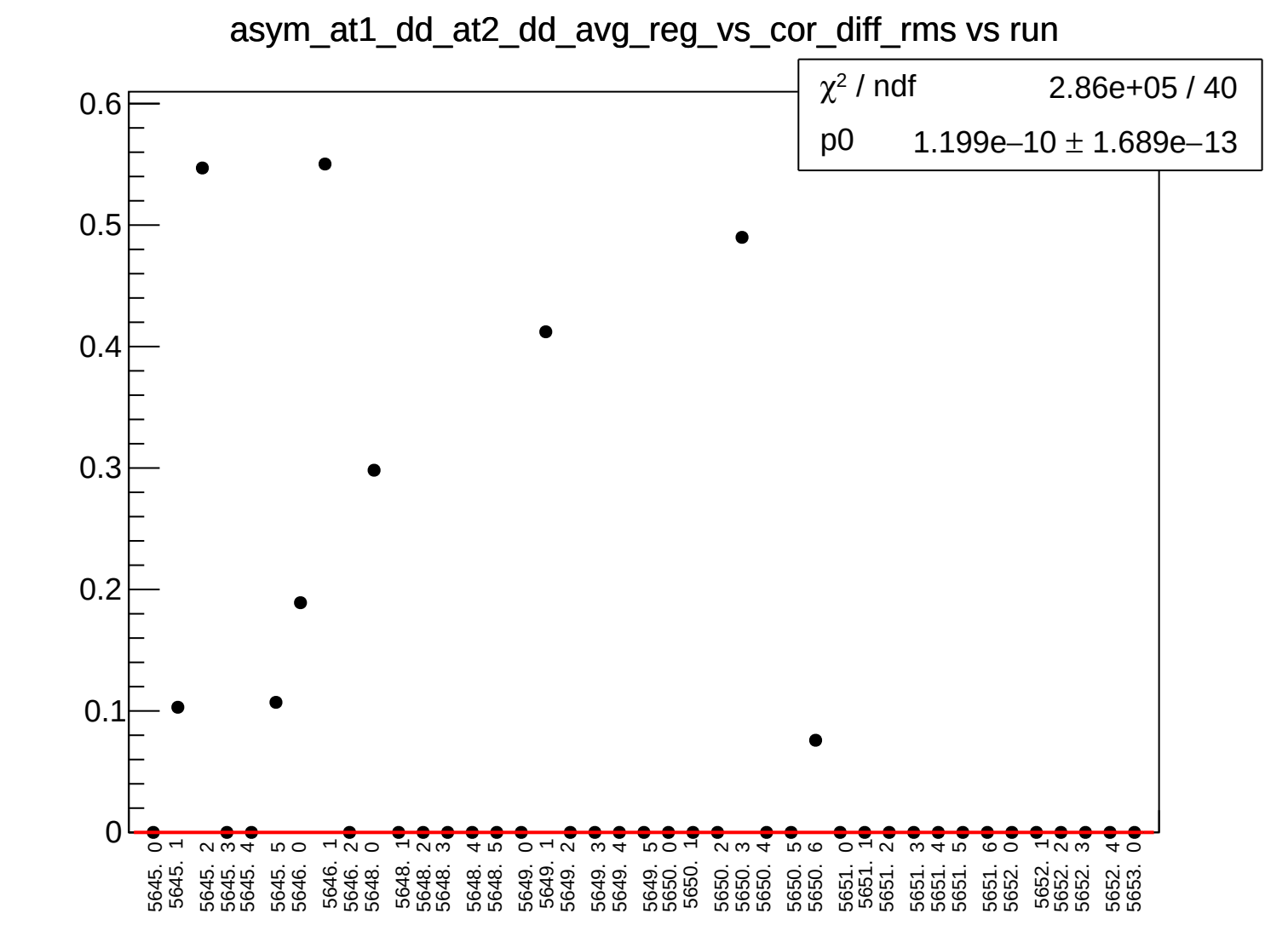

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2210 / 40
p0 1164 ± 1.311
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

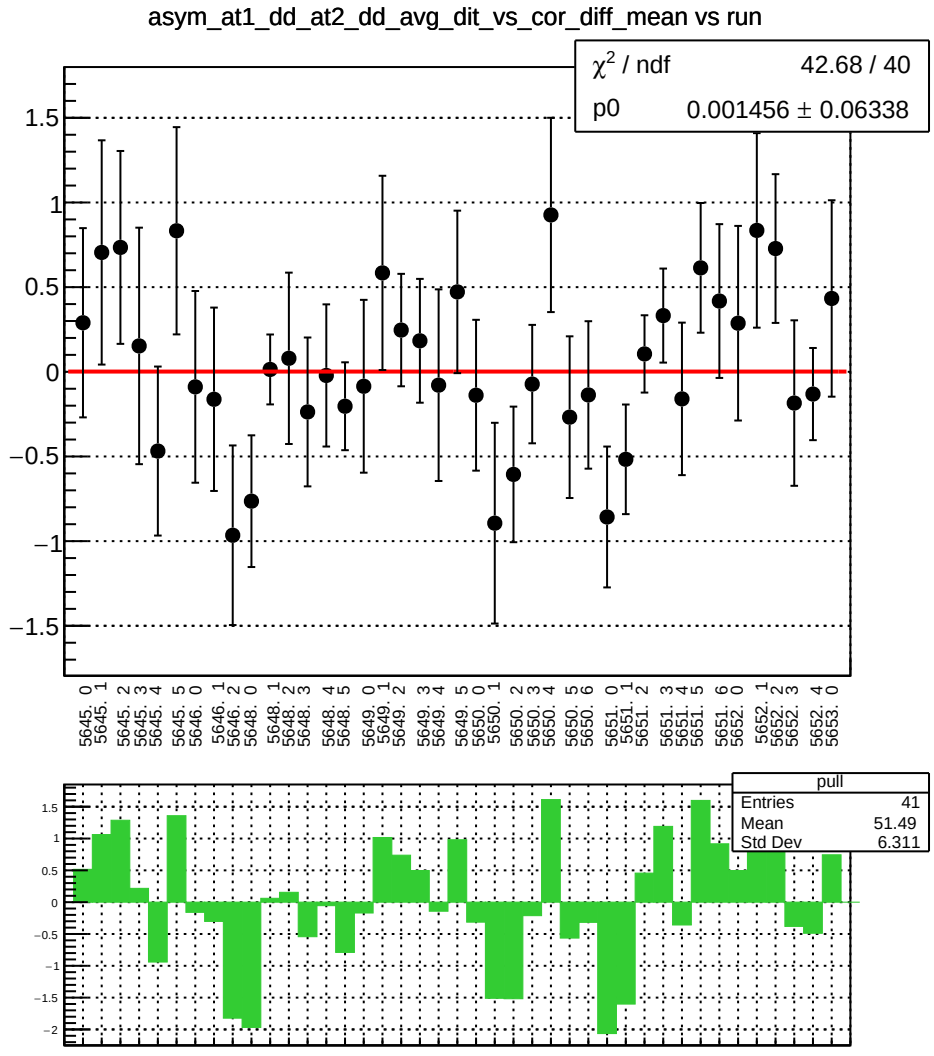

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.88 / 40
p0 1418 ± 2730
pull
Entries 41
Mean 413.1
Std Dev 0
pull1D
Entries 41
Mean −0.006095
Std Dev 1.103

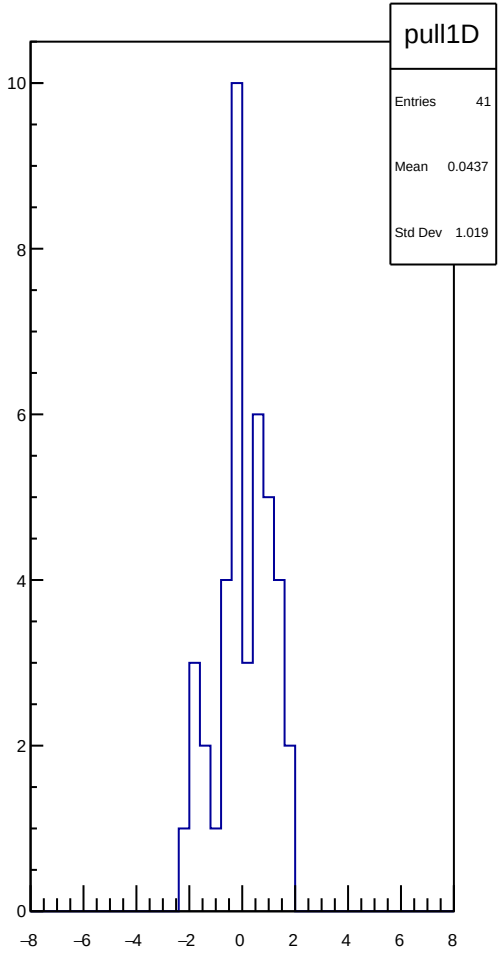

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 530.4 / 40
p0 1716 ± 1.93
1850
1800
1750
1700
1650
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

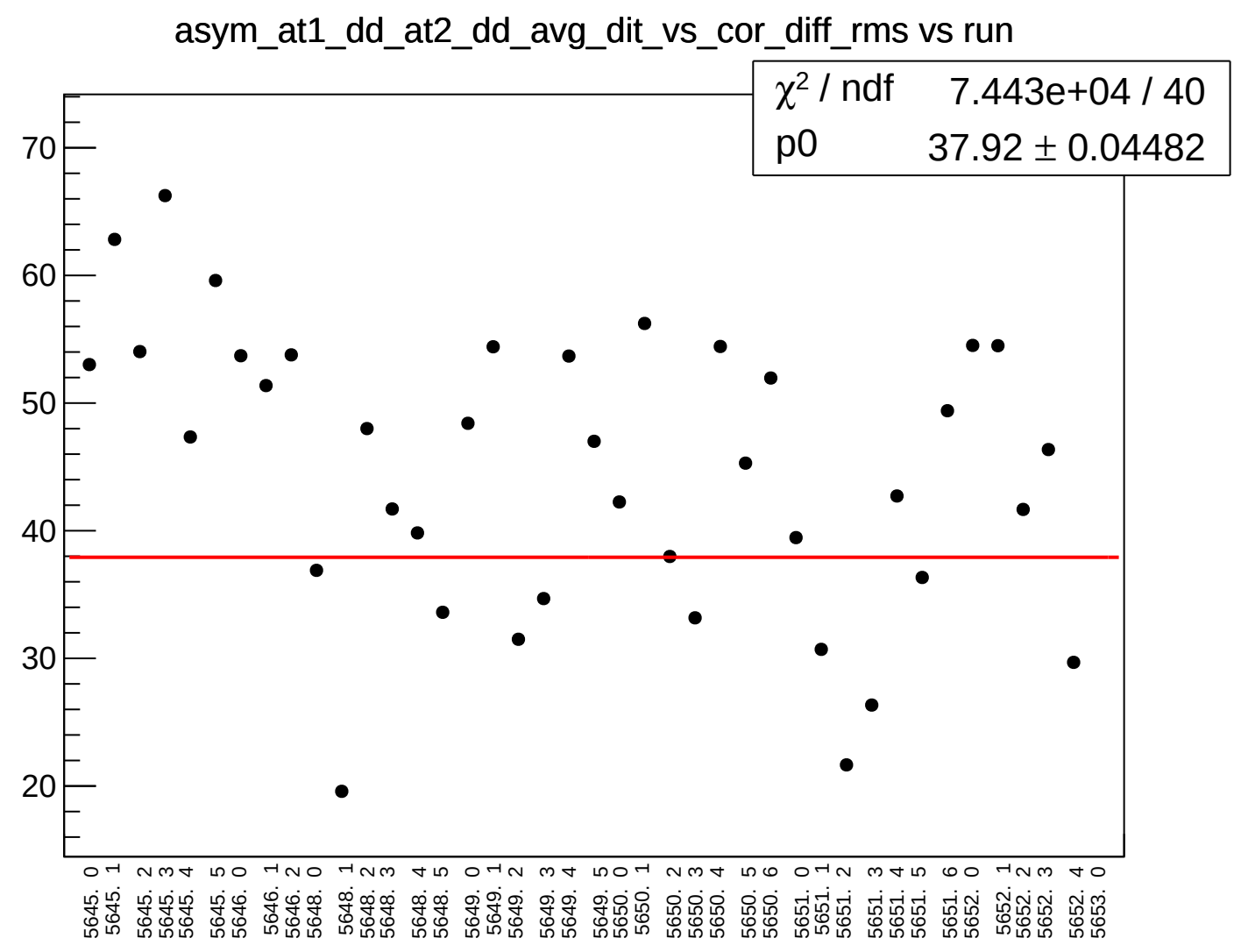

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.95 / 40
p0 −5.328e−13 ± 2.388e−13
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 39.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

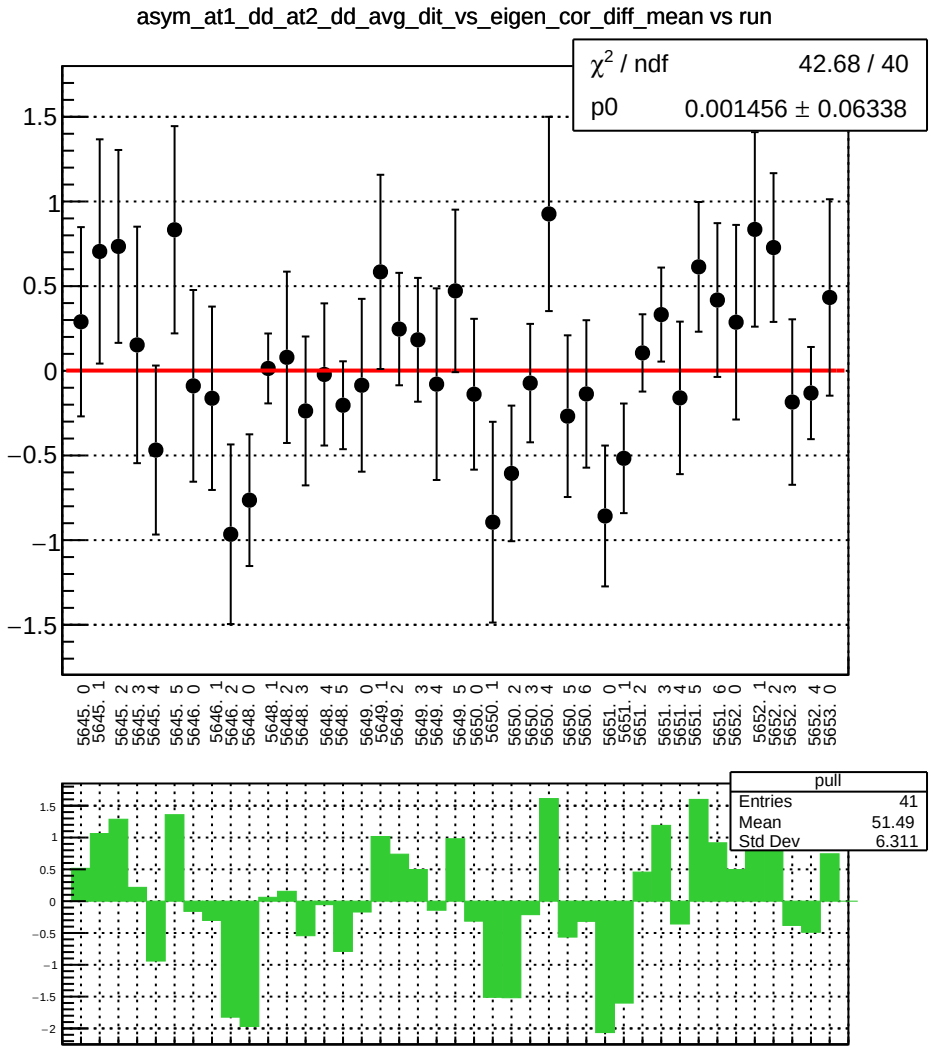

pull1D
Entries 41
Mean −0.08397
Std Dev 0.7911
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

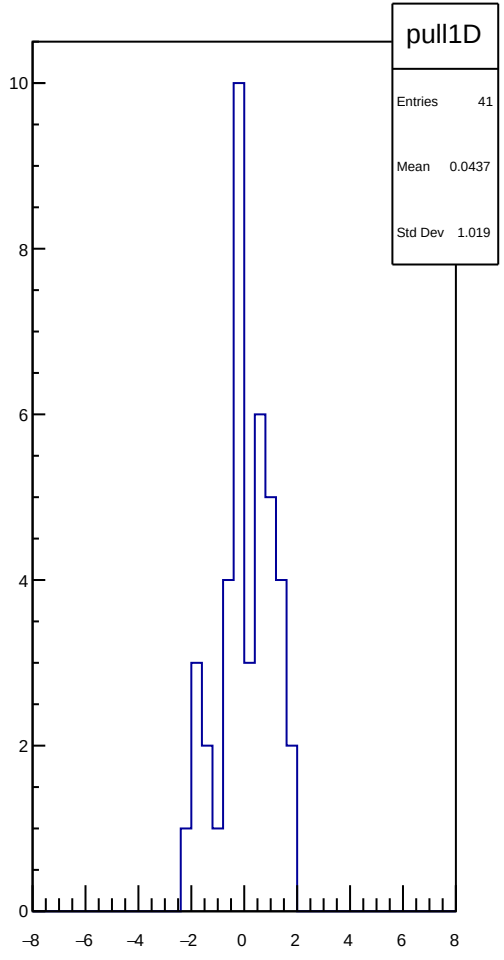

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 2.86e+05 / 40
p0 1.199e−10 ± 1.689e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

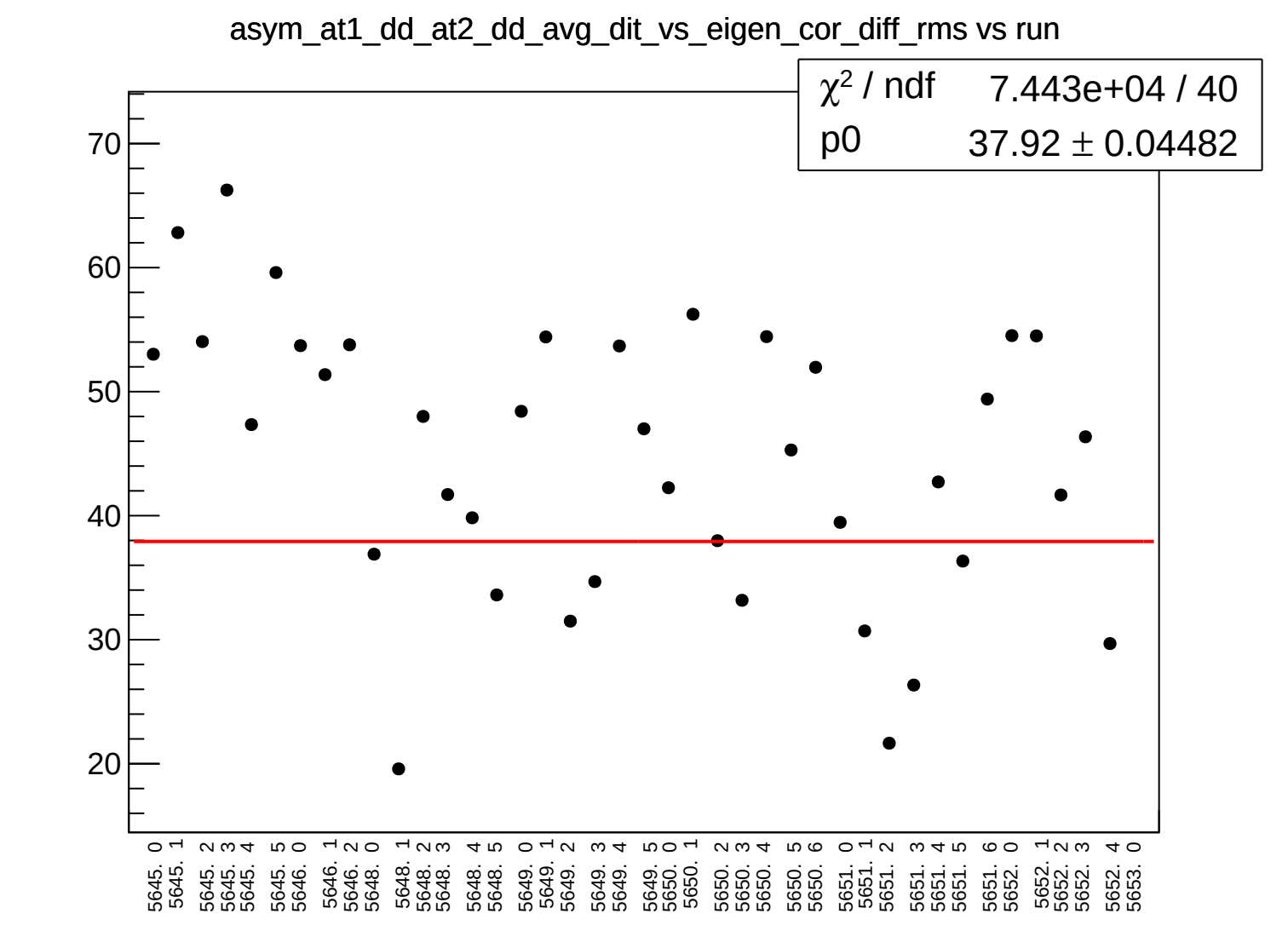

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001456 ± 0.06338
pull
Entries 41
Mean 51.49
Std Dev 6.311

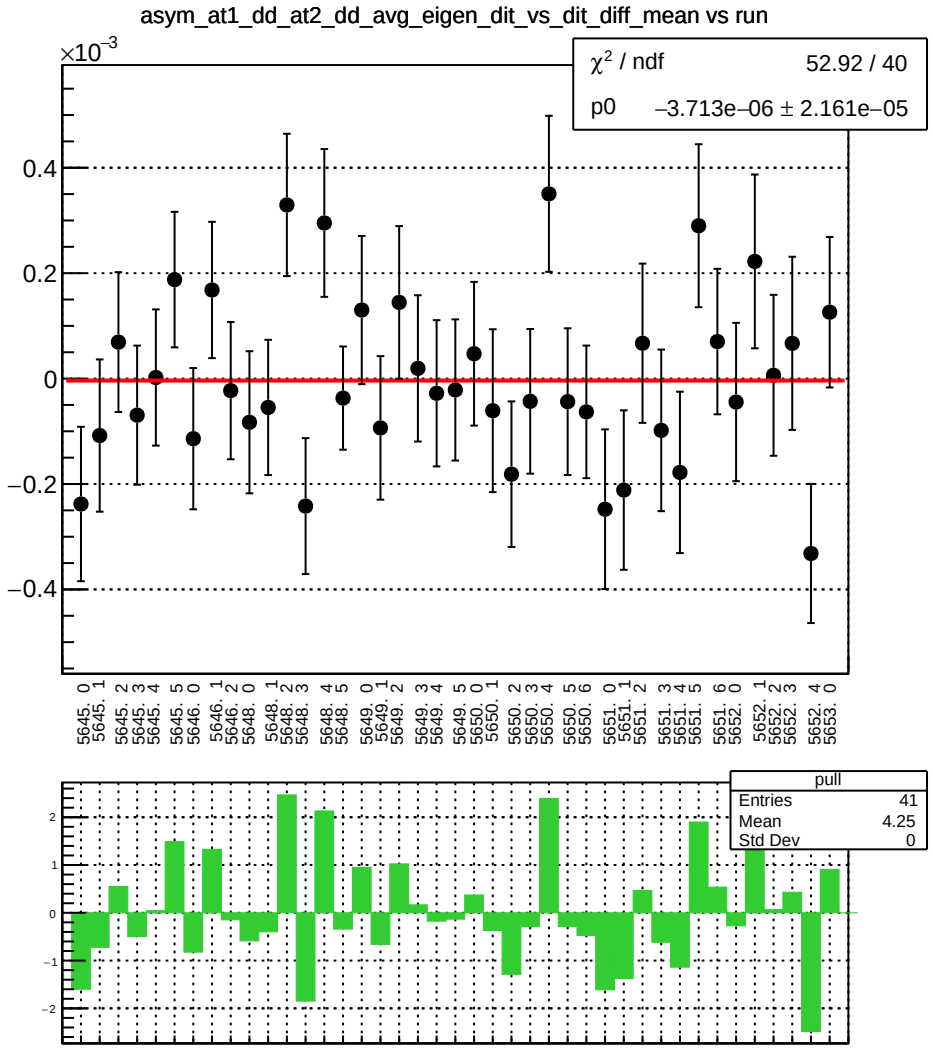

pull1D
Entries 41
Mean 0.0437
Std Dev 1.019

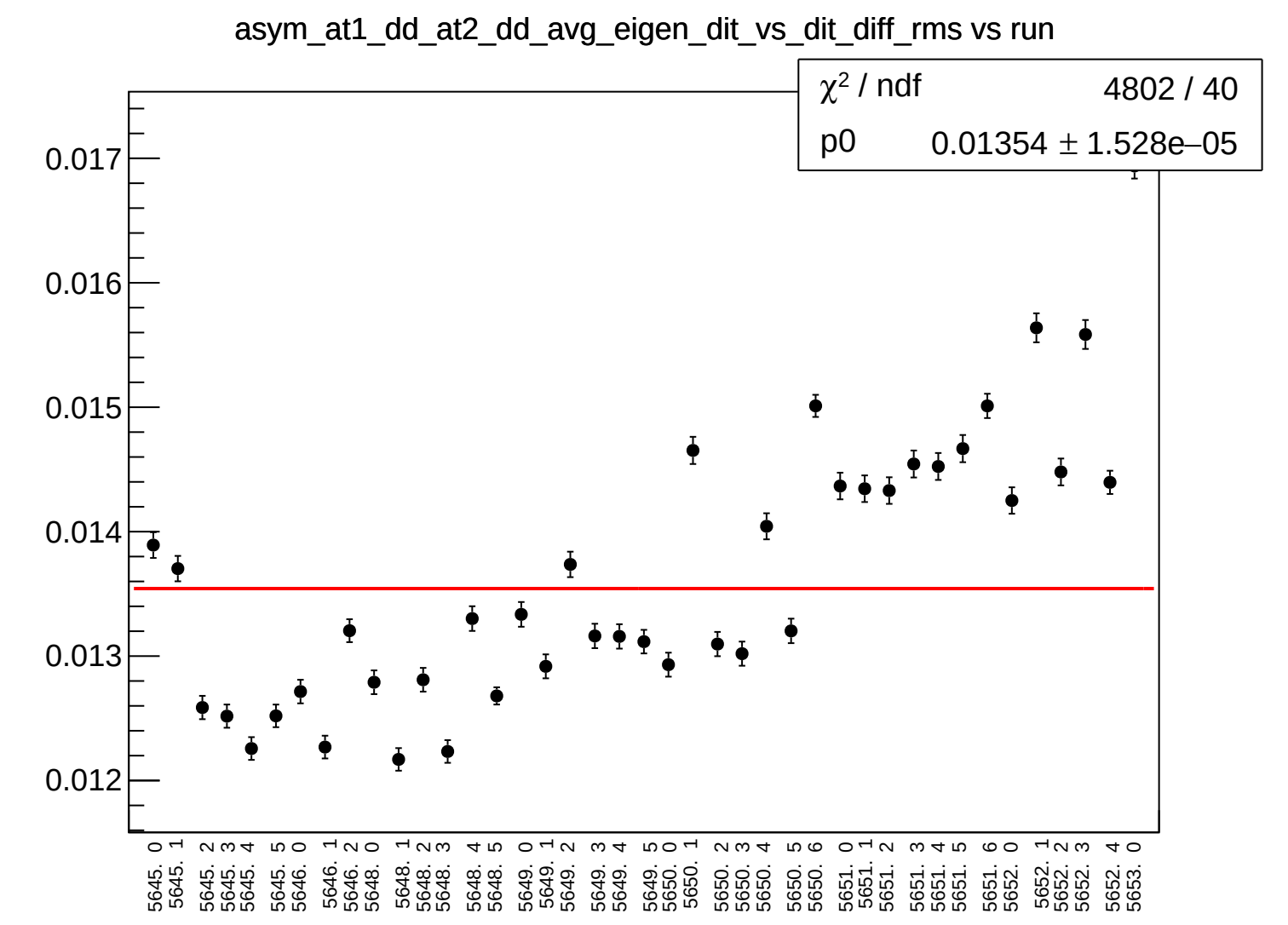

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.443e+04 / 40
p0 37.92 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

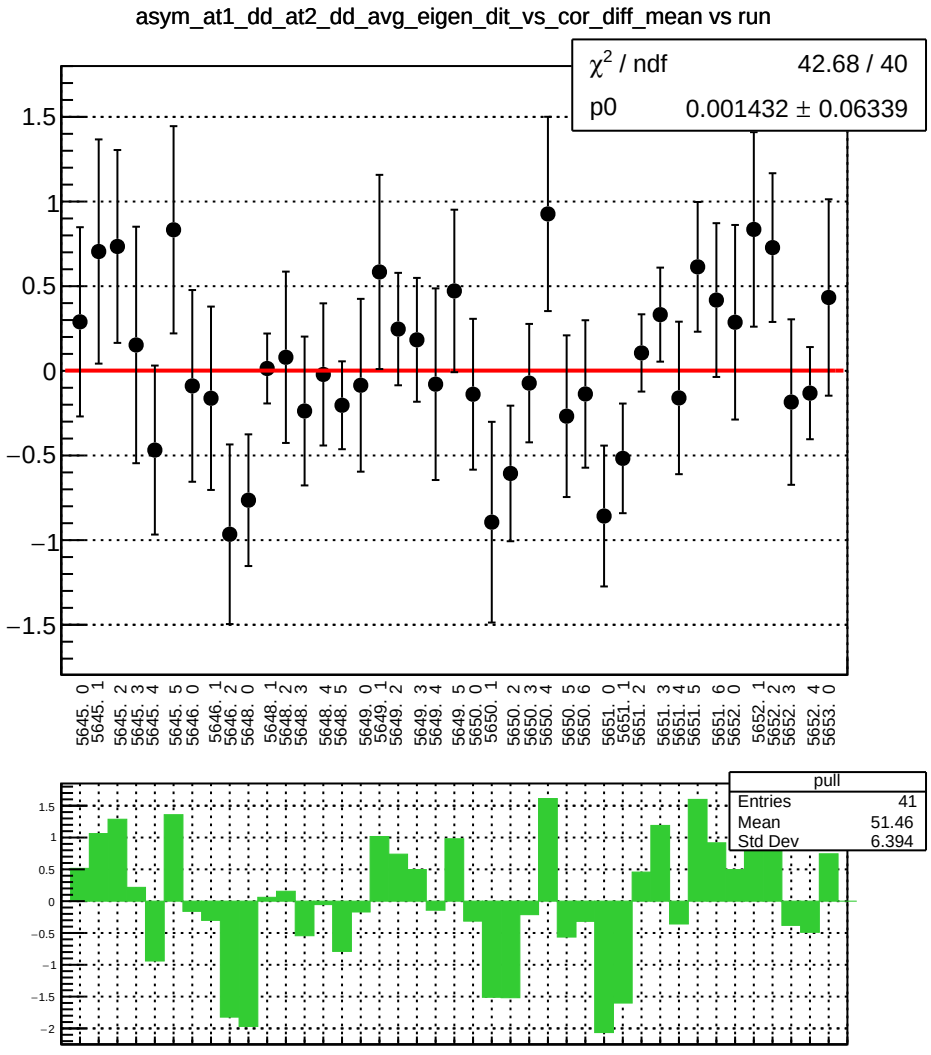

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001456 ± 0.06338
pull
Entries 41
Mean 51.49
Std Dev 6.311

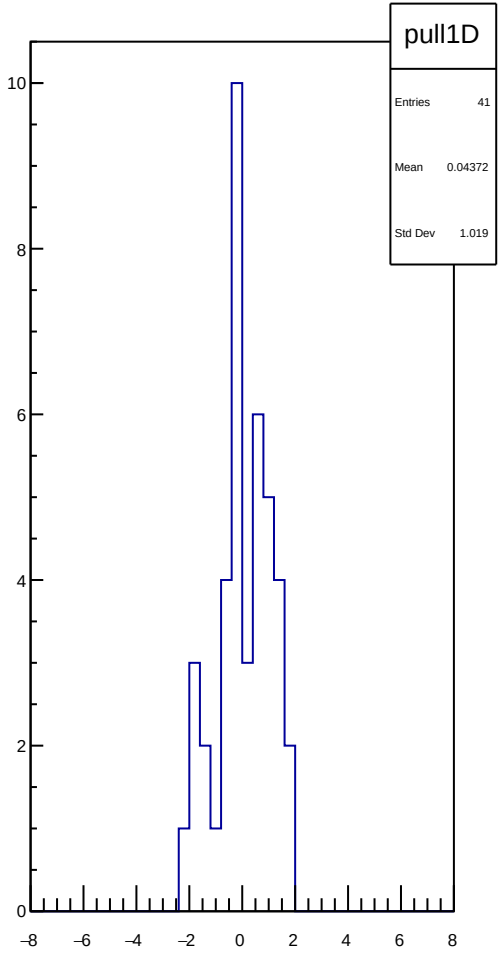

pull1D
Entries 41
Mean 0.0437
Std Dev 1.019

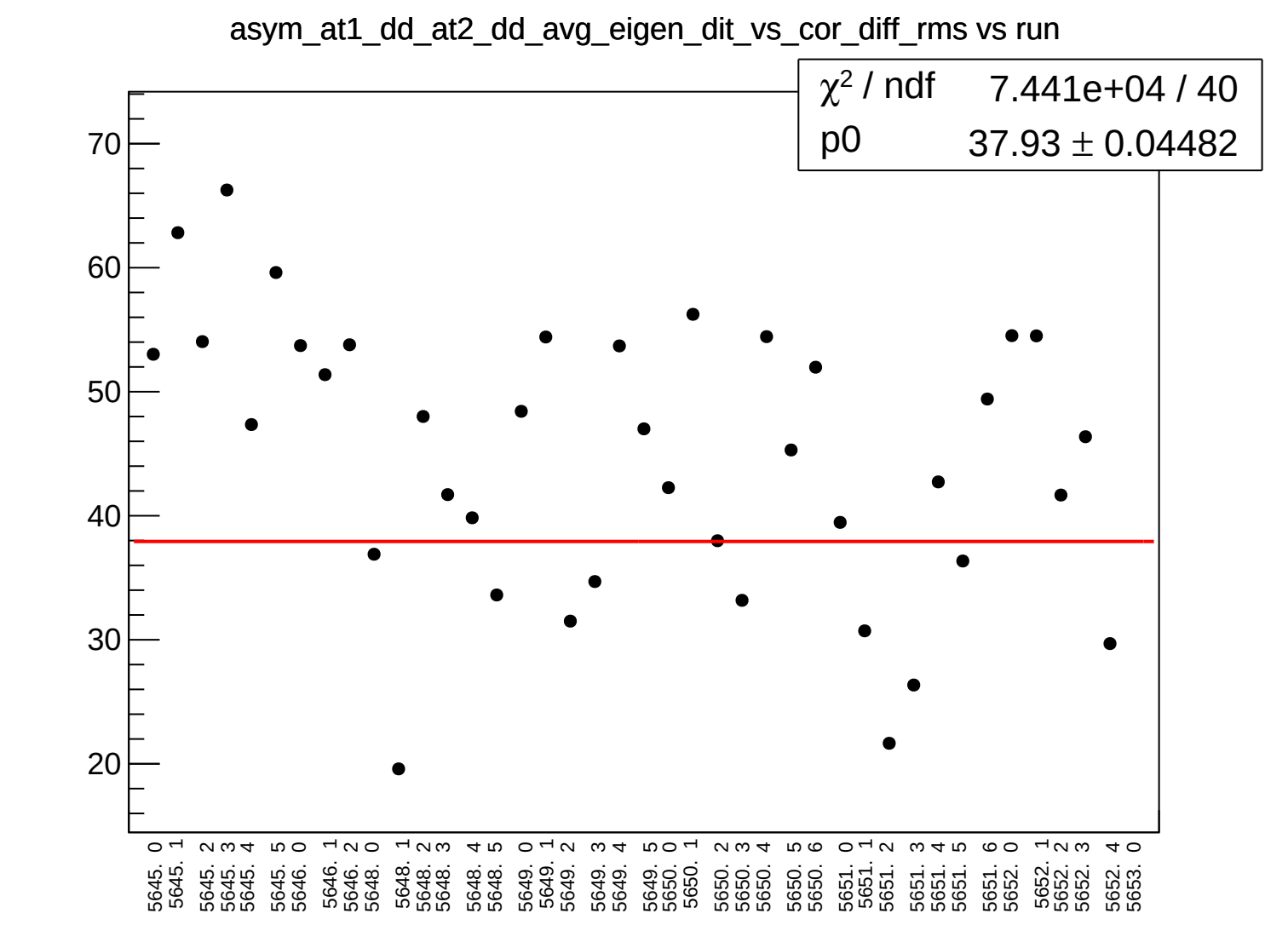

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.443e+04 / 40
p0 37.92 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

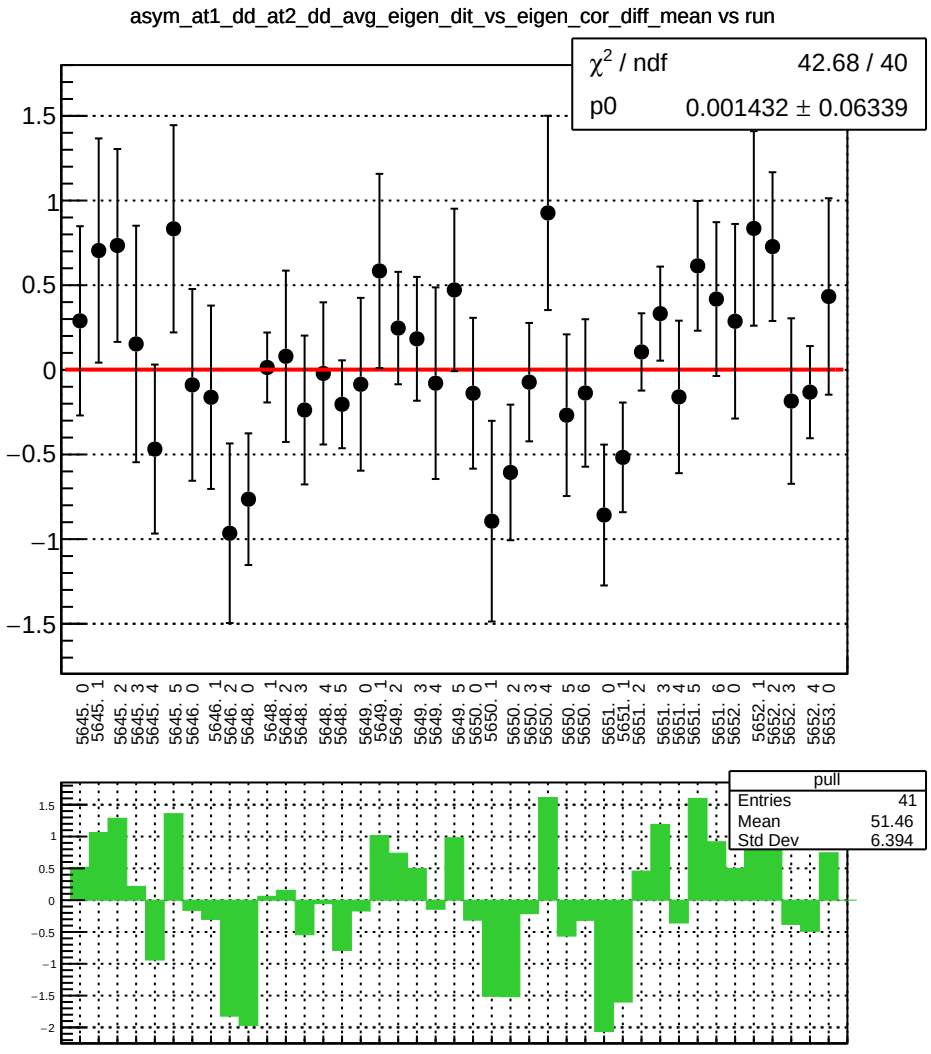

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 52.92 / 40
p0 −3.713e−06 ± 2.161e−05
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01143
Std Dev 1.136
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

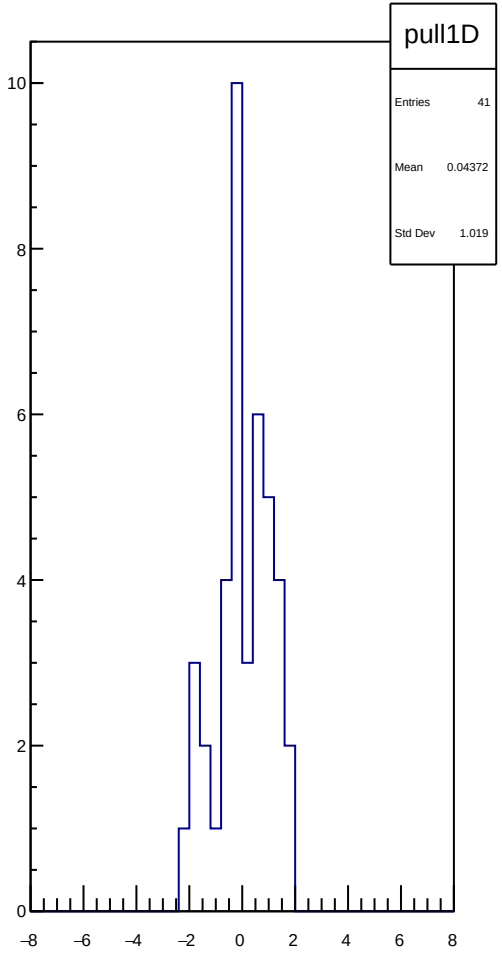

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4802 / 40
p0 0.01354 ± 1.528e−05
0.017
0.016
0.015
0.014
0.013
0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

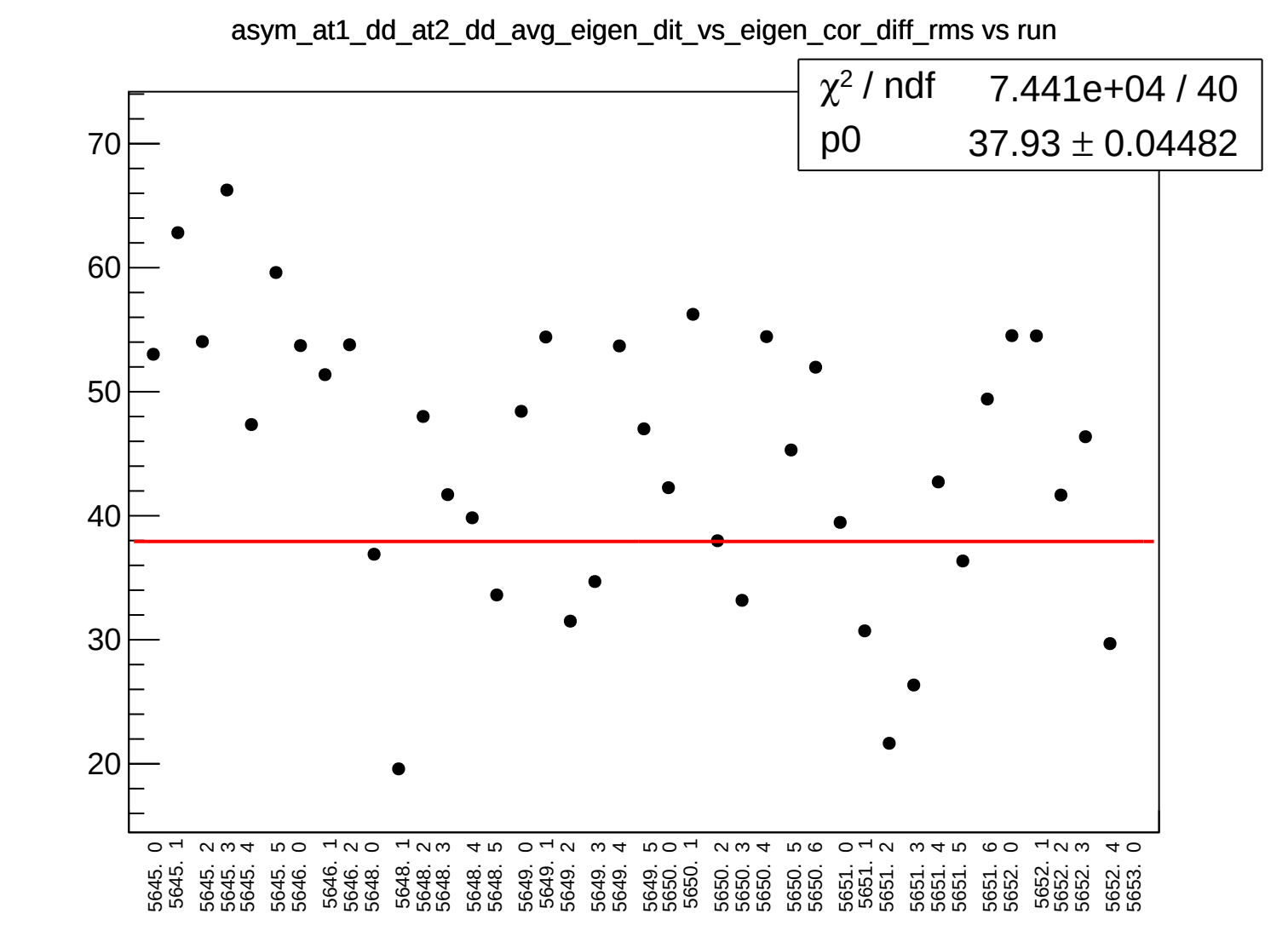

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001432 ± 0.06339
pull
Entries 41
Mean 51.46
Std Dev 6.394

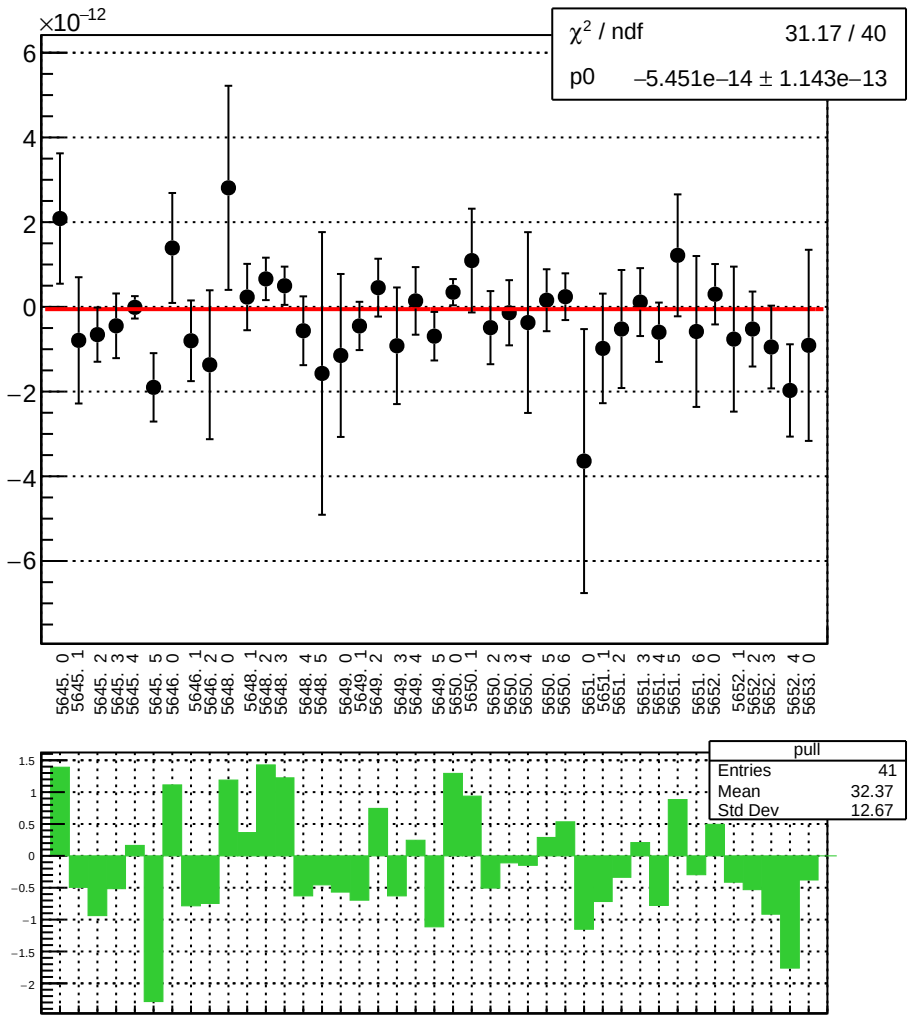

pull1D
Entries 41
Mean 0.04372
Std Dev 1.019

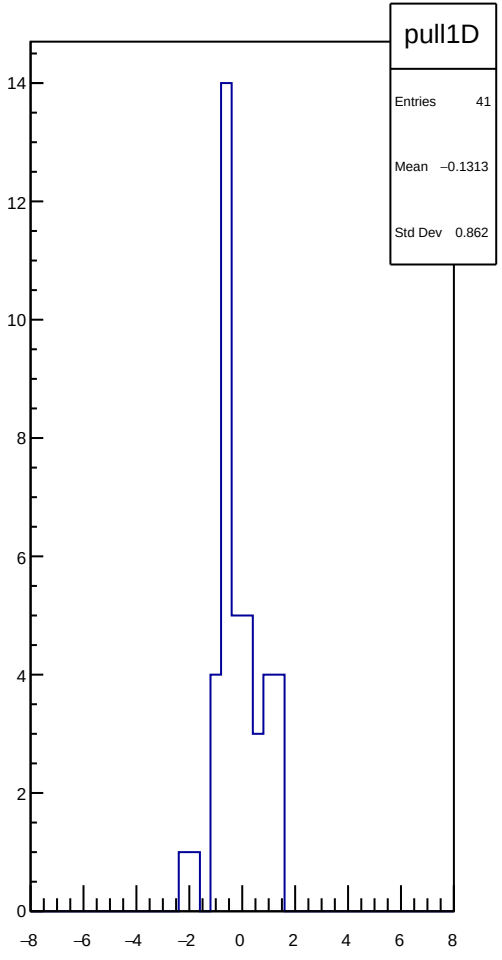

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.441e+04 / 40
p0 37.93 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

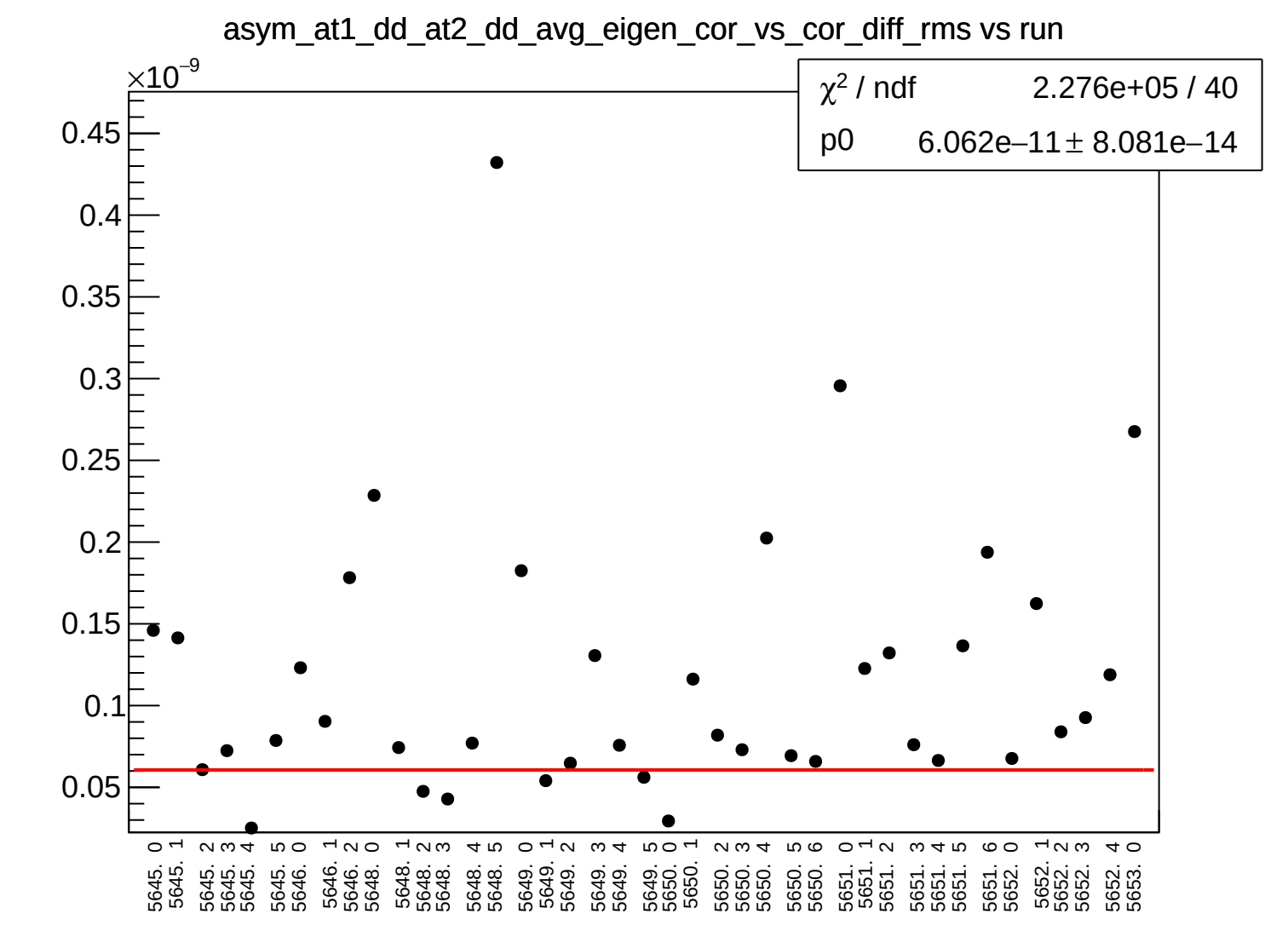

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.68 / 40
p0 0.001432 ± 0.06339
pull
Entries 41
Mean 51.46
Std Dev 6.394

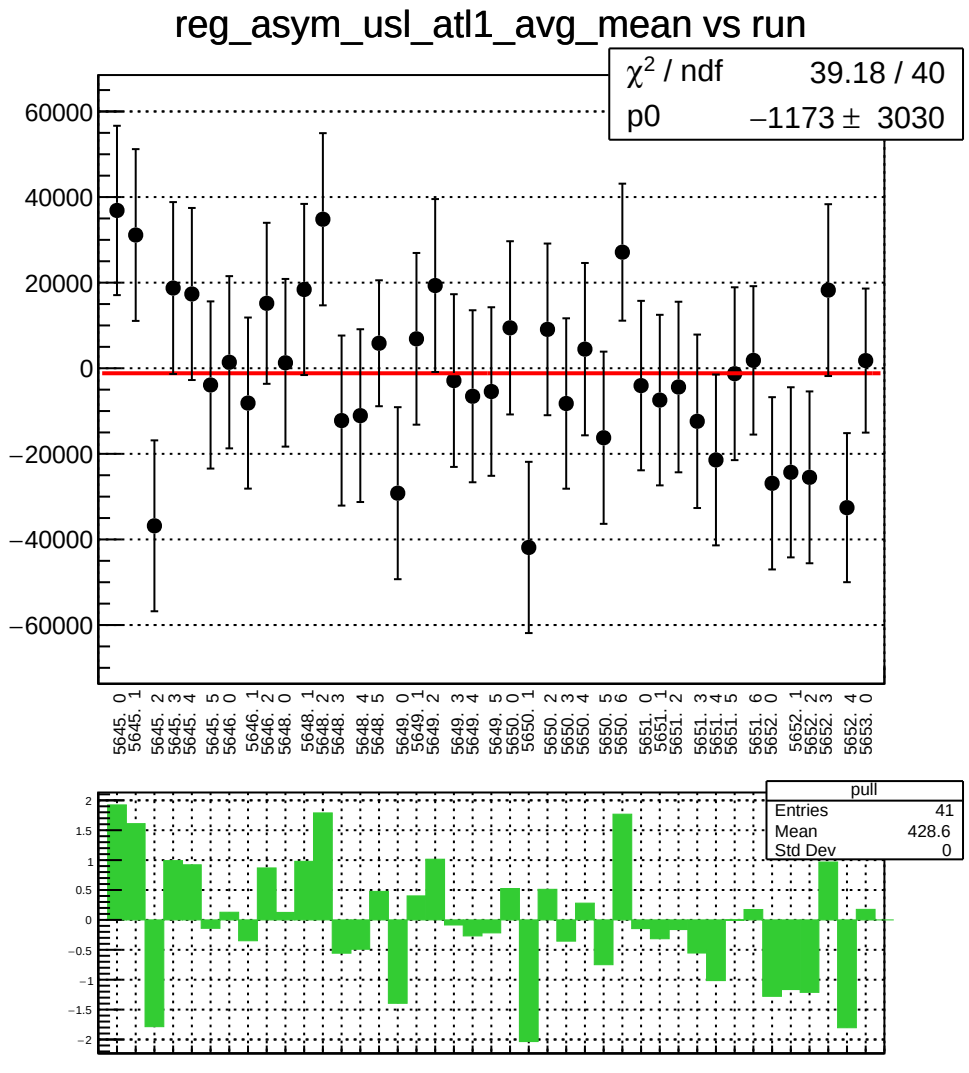

pull1D
Entries 41
Mean 0.04372
Std Dev 1.019

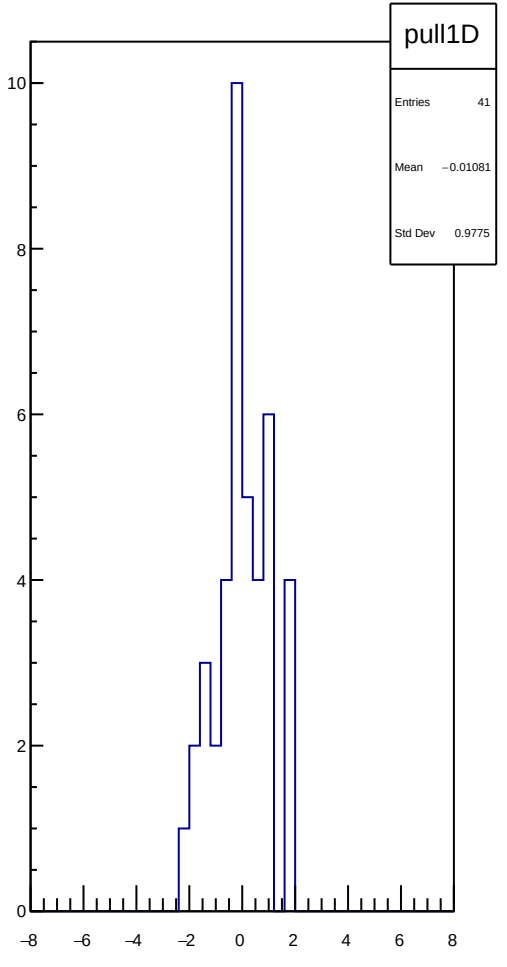

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.441e+04 / 40
p0 37.93 ± 0.04482
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

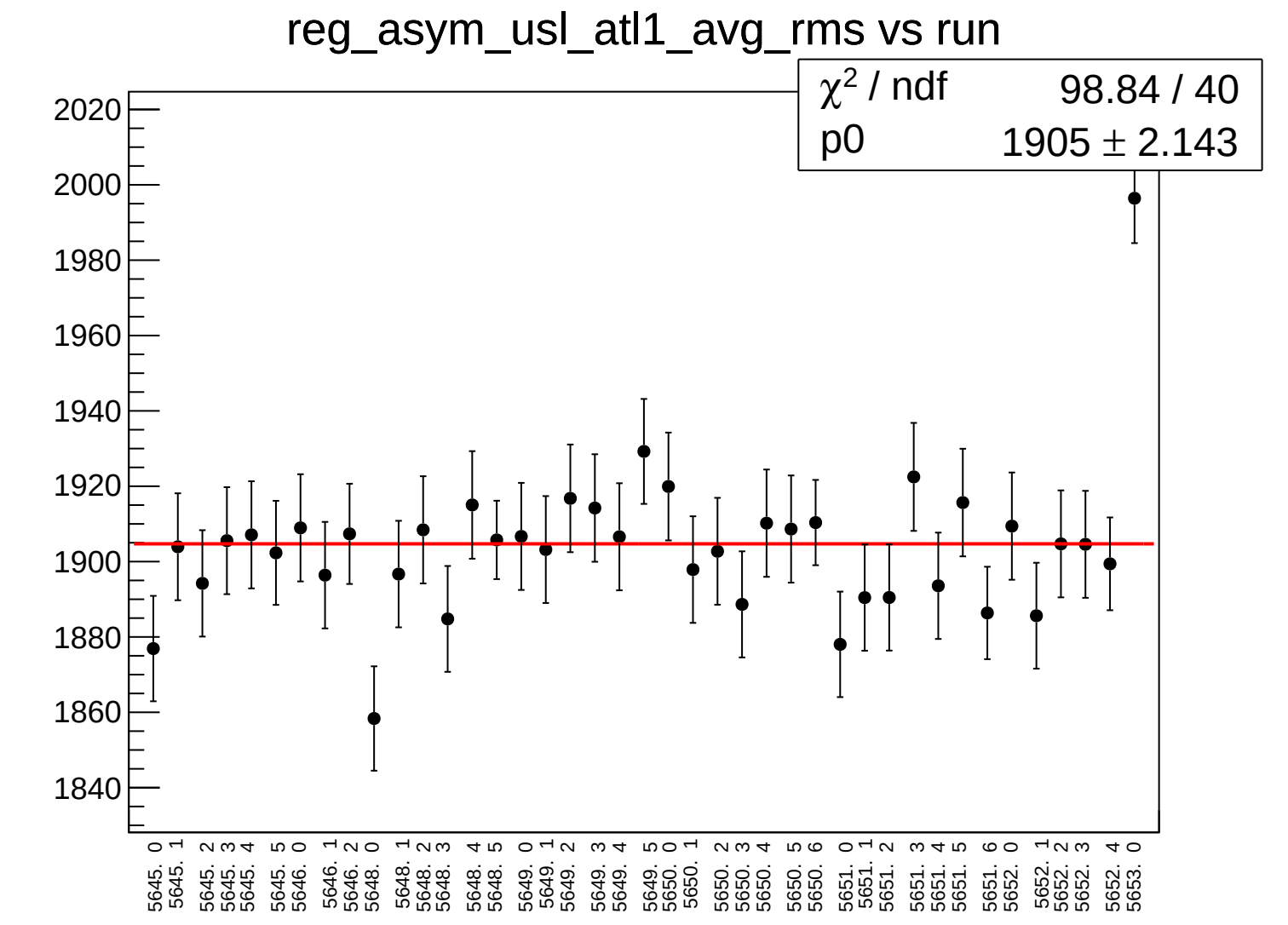

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.17 / 40
p0 −5.451e−14 ± 1.143e−13
pull
Entries 41
Mean 32.37
Std Dev 12.67

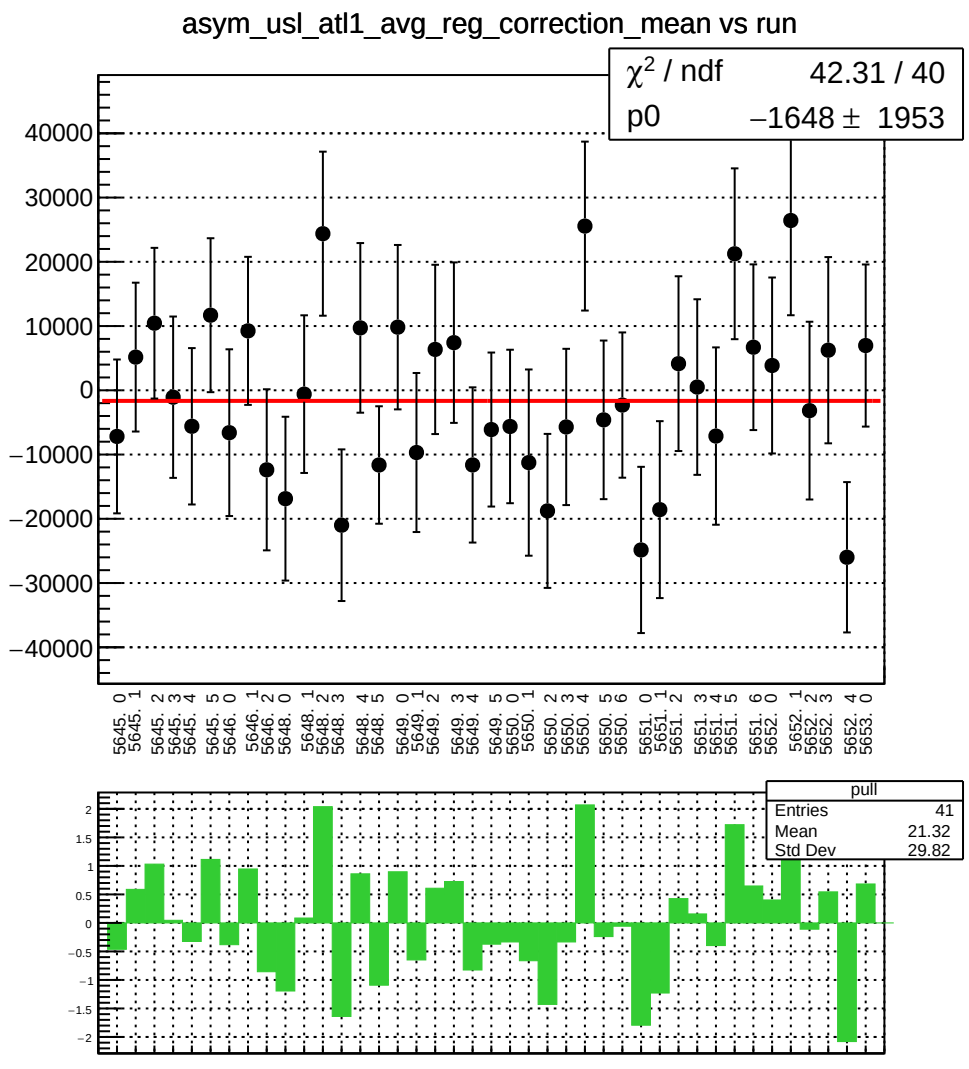

pull1D
Entries 41
Mean −0.1313
Std Dev 0.862

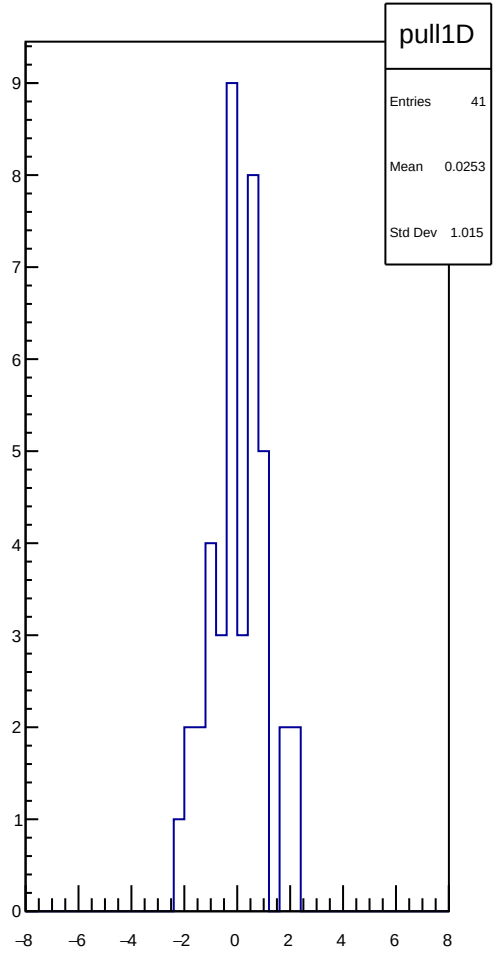

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.276e+05 / 40
p0 6.062e−11 ± 8.081e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

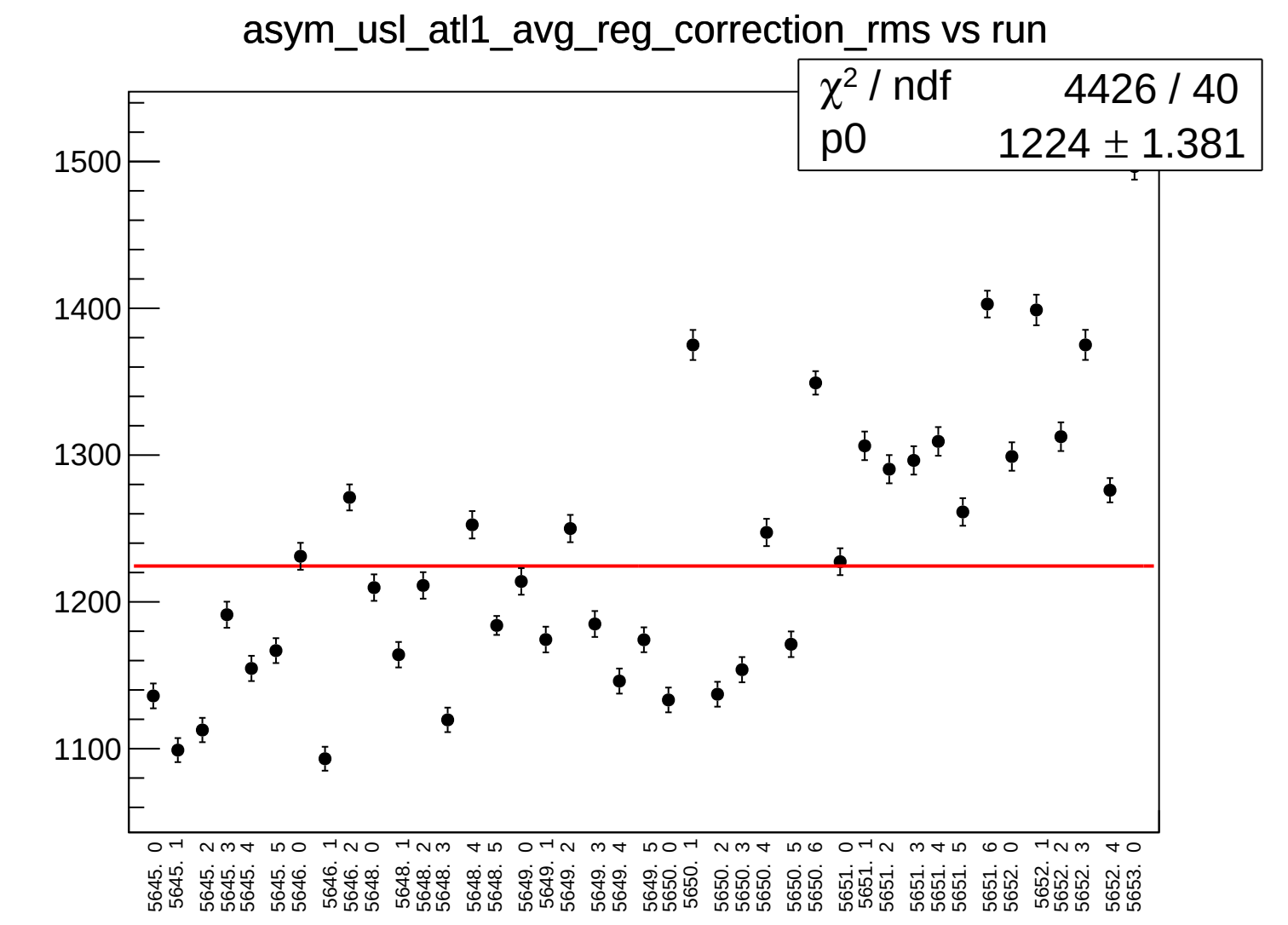

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 39.18 / 40
p0 −1173 ± 3030
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 428.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

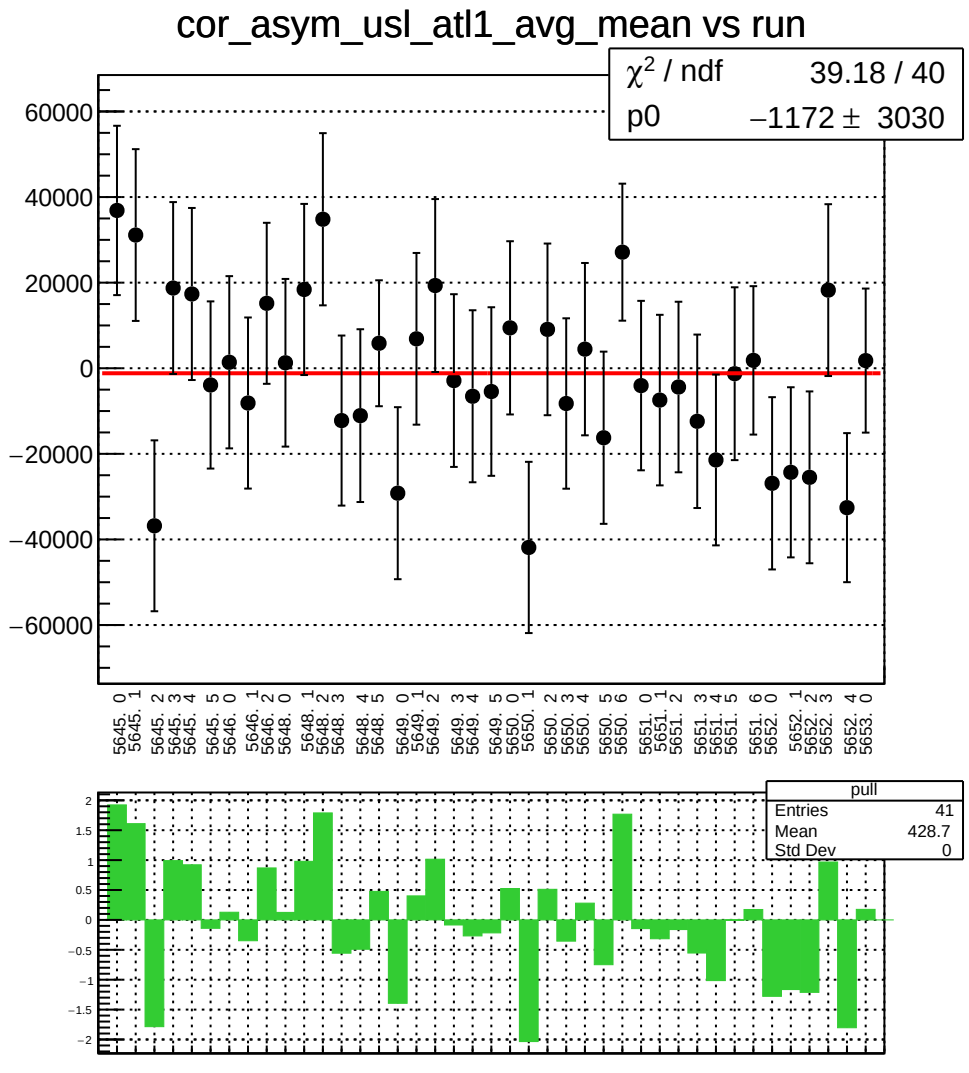

pull1D
Entries 41
Mean −0.01081
Std Dev 0.9775
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

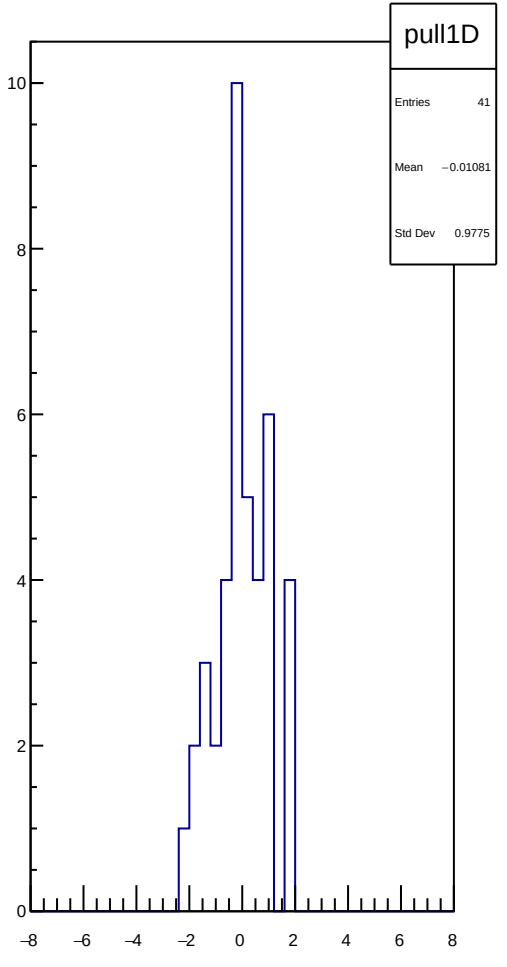

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 98.84 / 40
p0 1905 ± 2.143
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

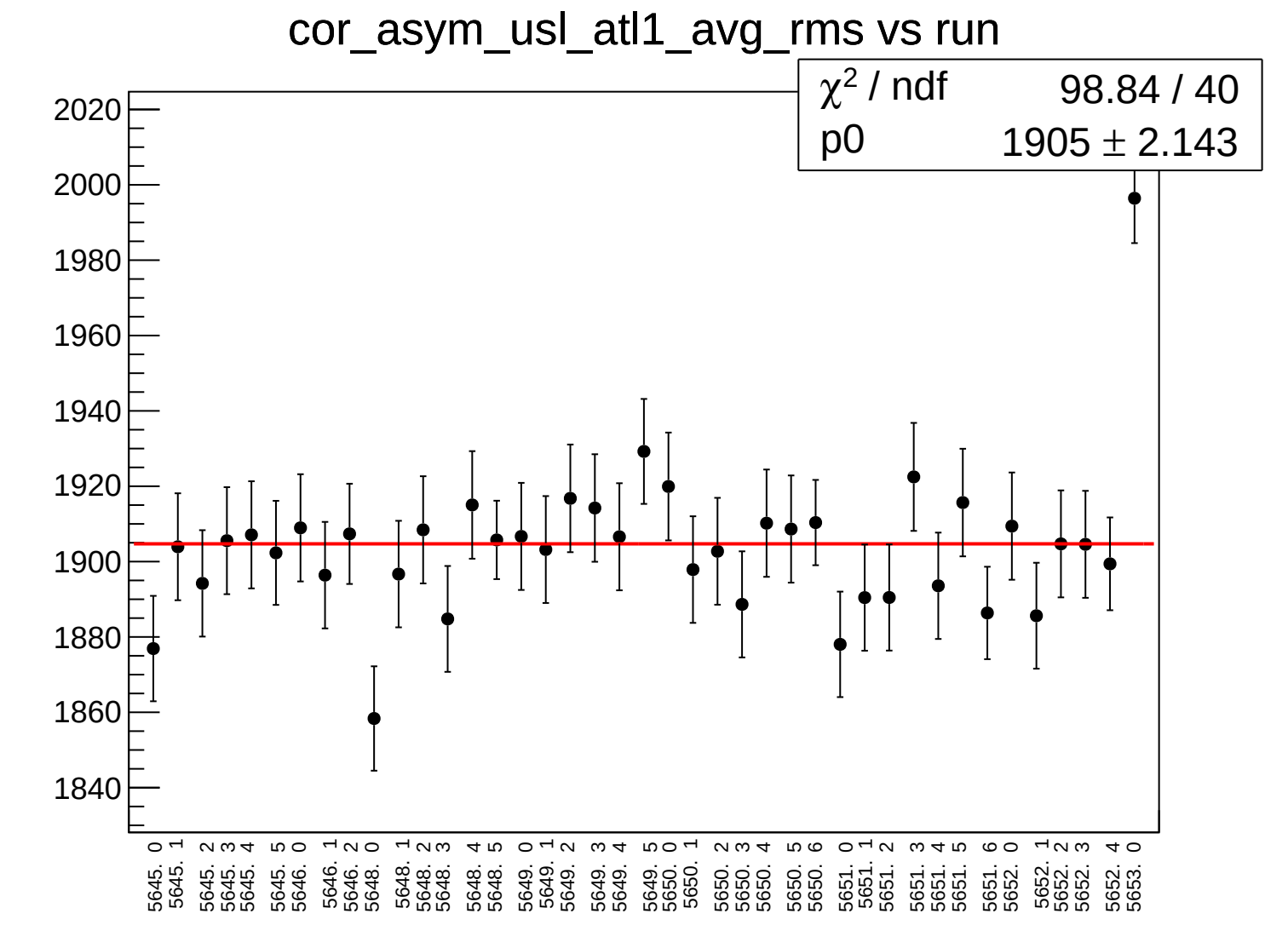

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 42.31 / 40
p0 −1648 ± 1953
pull
Entries 41
Mean 21.32
Std Dev 29.82

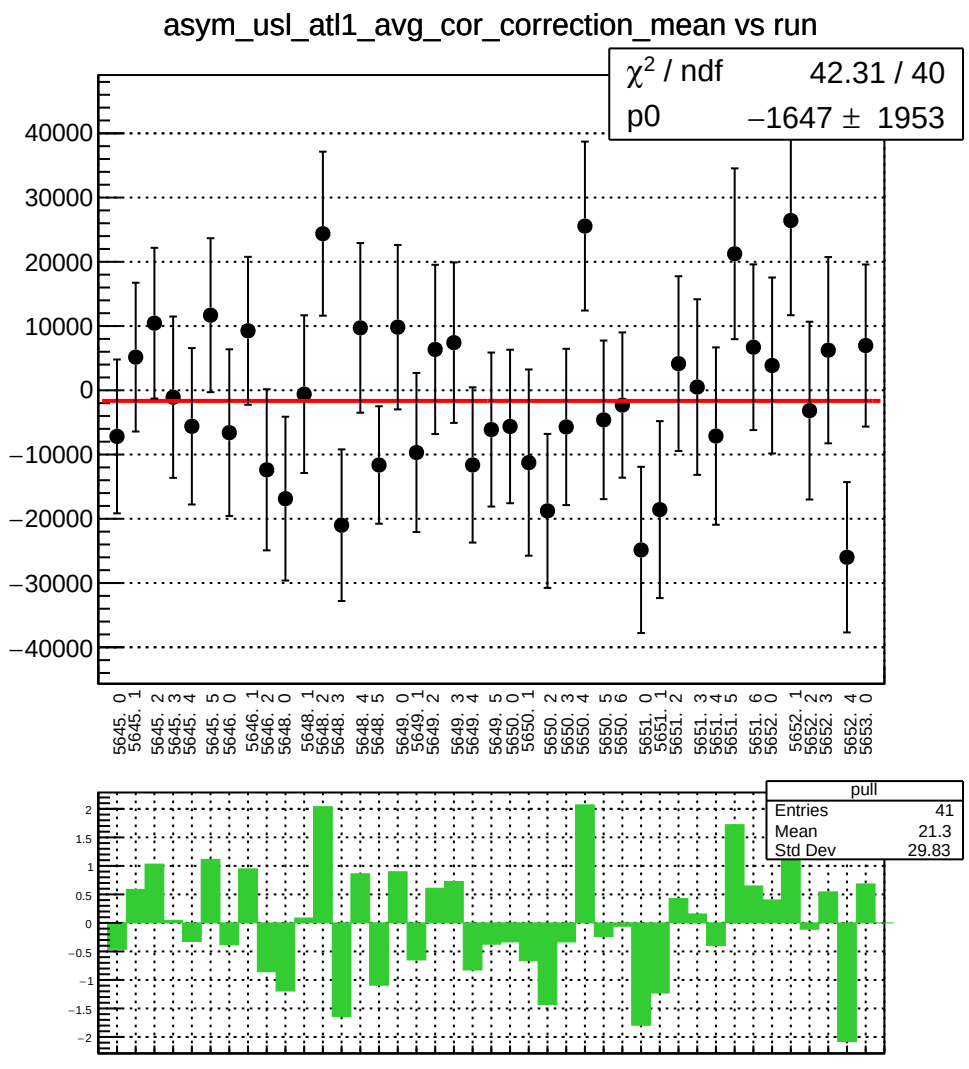

pull1D
Entries 41
Mean 0.0253
Std Dev 1.015

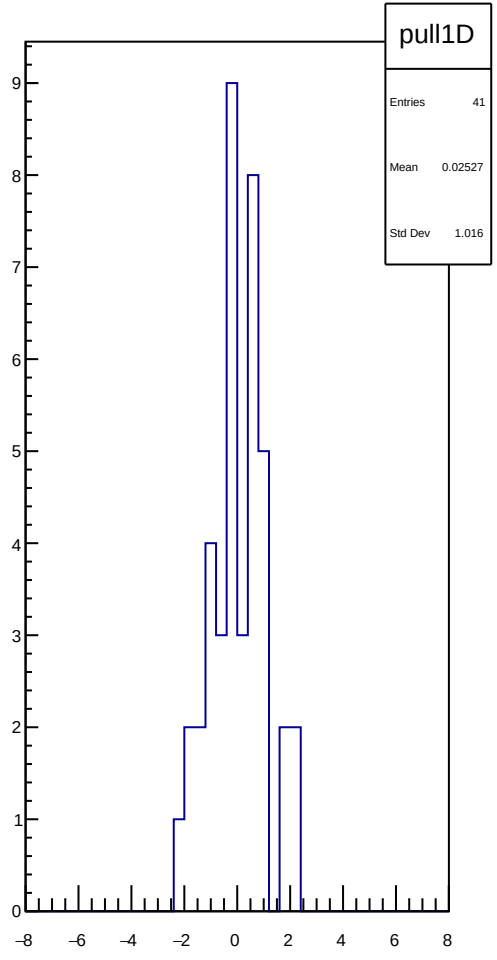

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 4426 / 40
p0 1224 ± 1.381
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

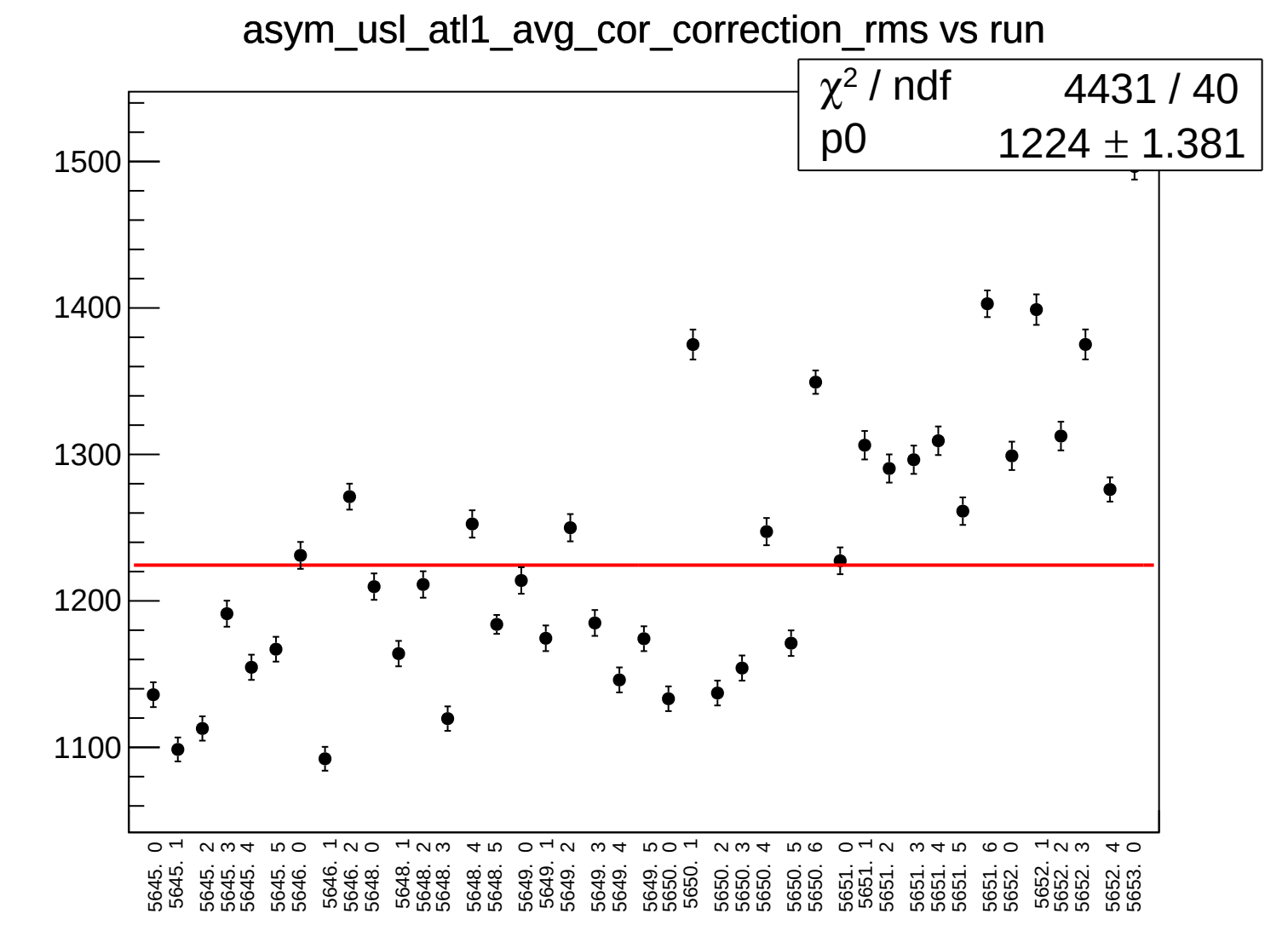

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 39.18 / 40
p0 −1172 ± 3030
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 428.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

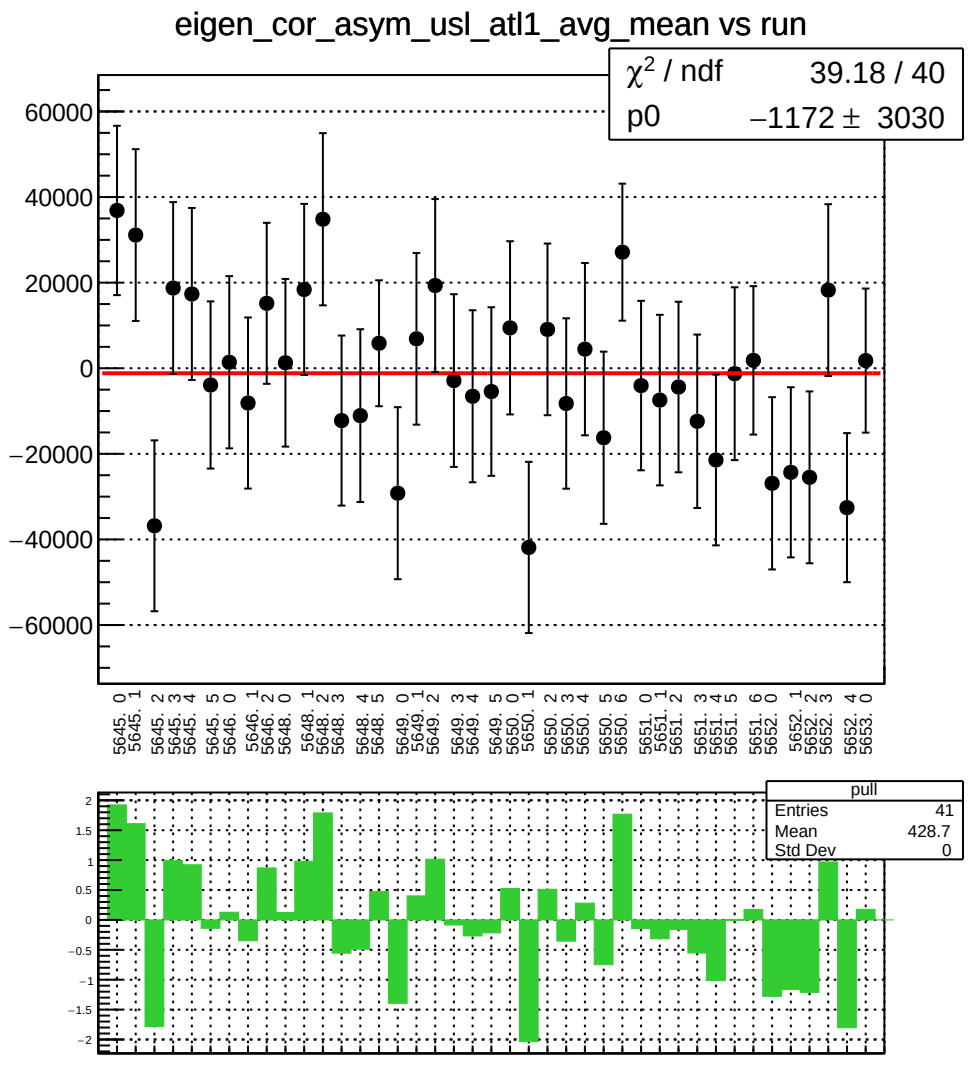

pull1D
Entries 41
Mean −0.01081
Std Dev 0.9775
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

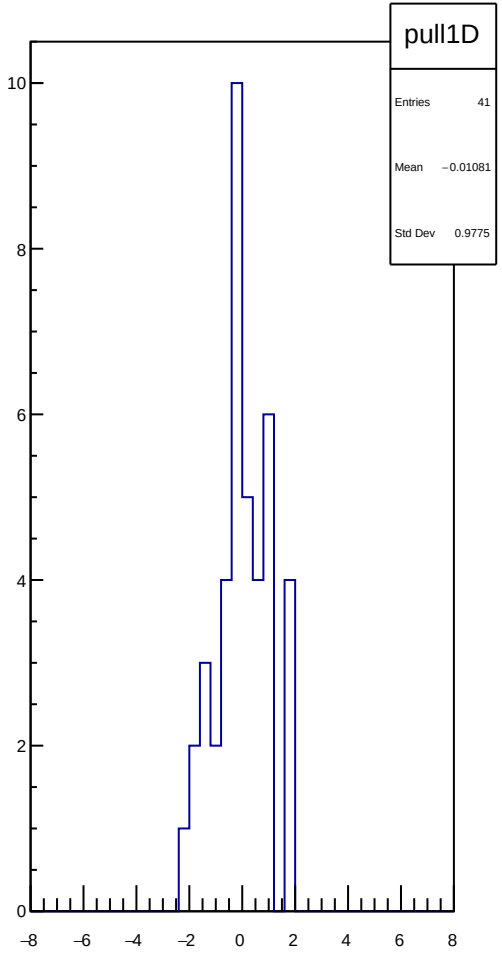

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 98.84 / 40
p0 1905 ± 2.143
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

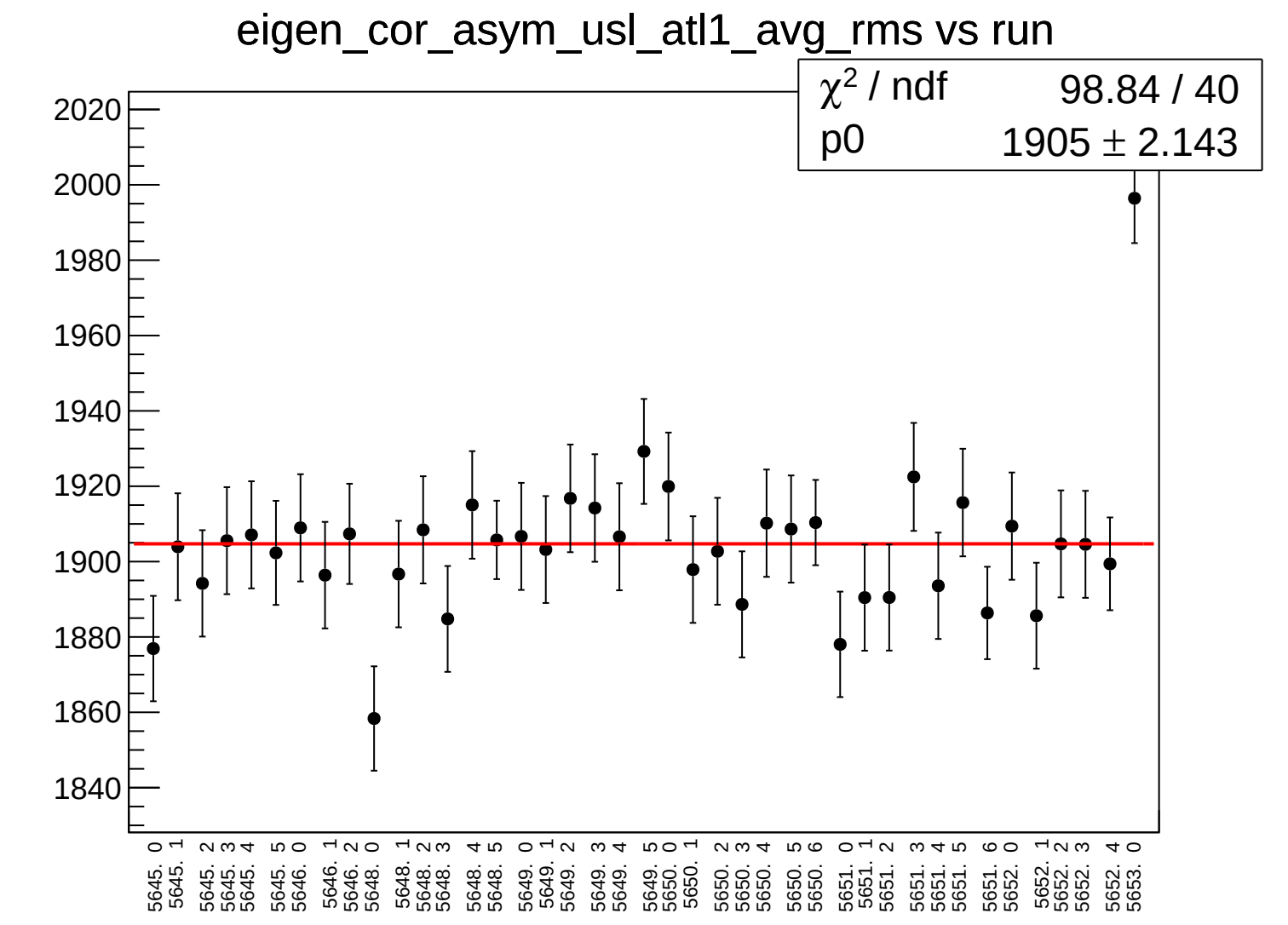

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 42.31 / 40
p0 −1647 ± 1953
pull
Entries 41
Mean 21.3
Std Dev 29.83

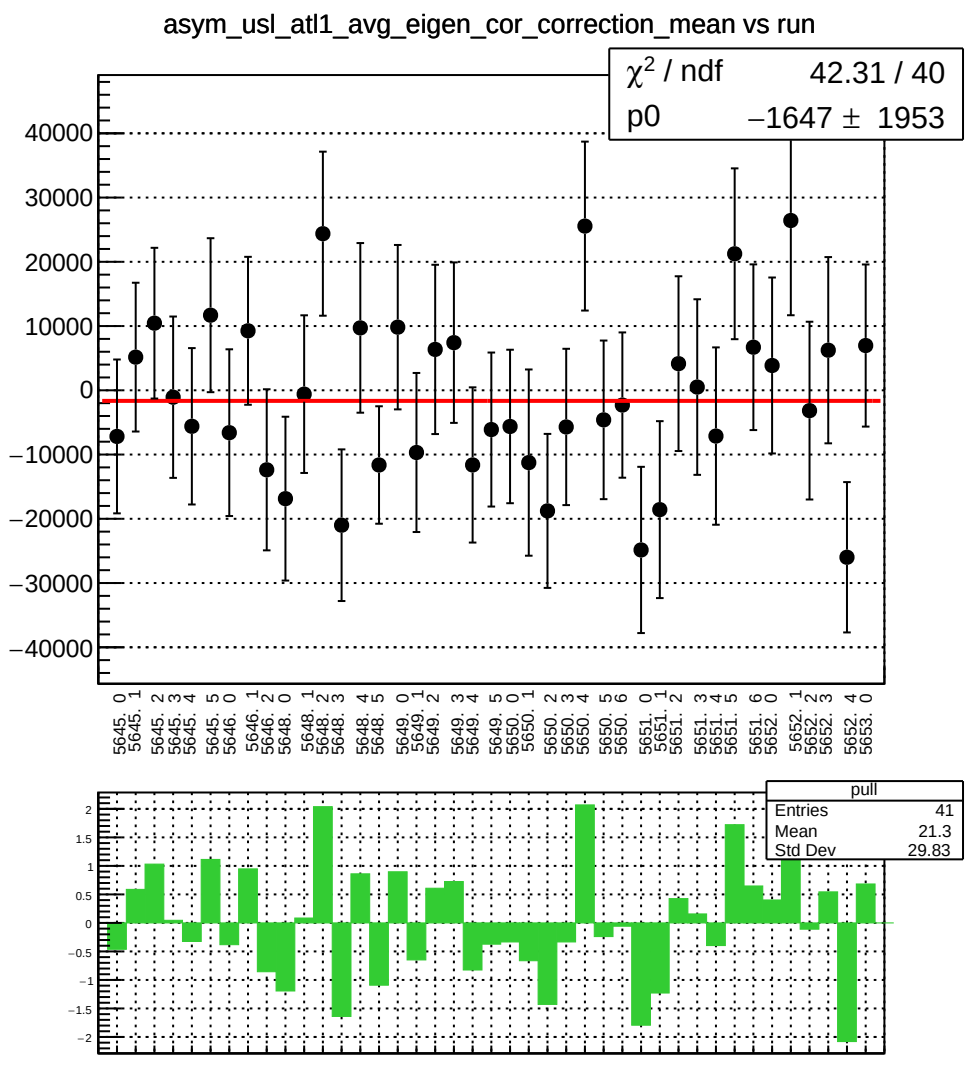

pull1D
Entries 41
Mean 0.02527
Std Dev 1.016

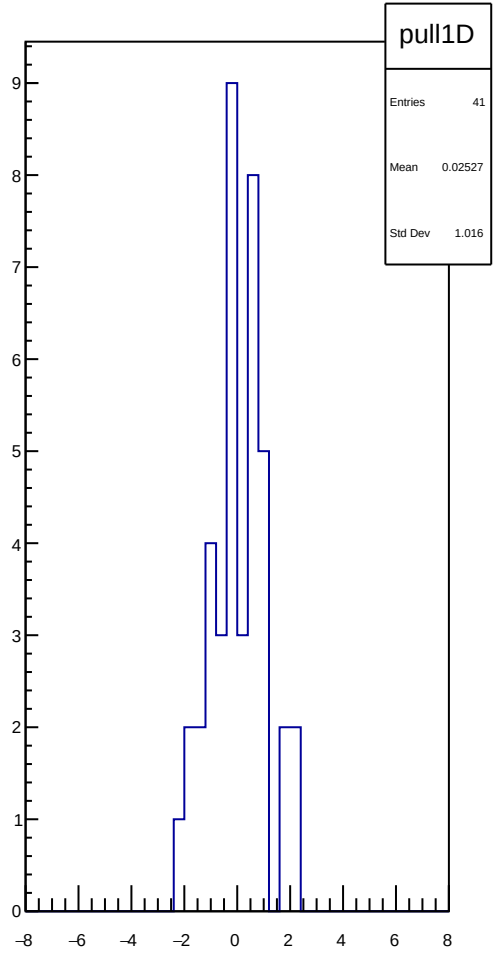

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 4431 / 40
p0 1224 ± 1.381
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

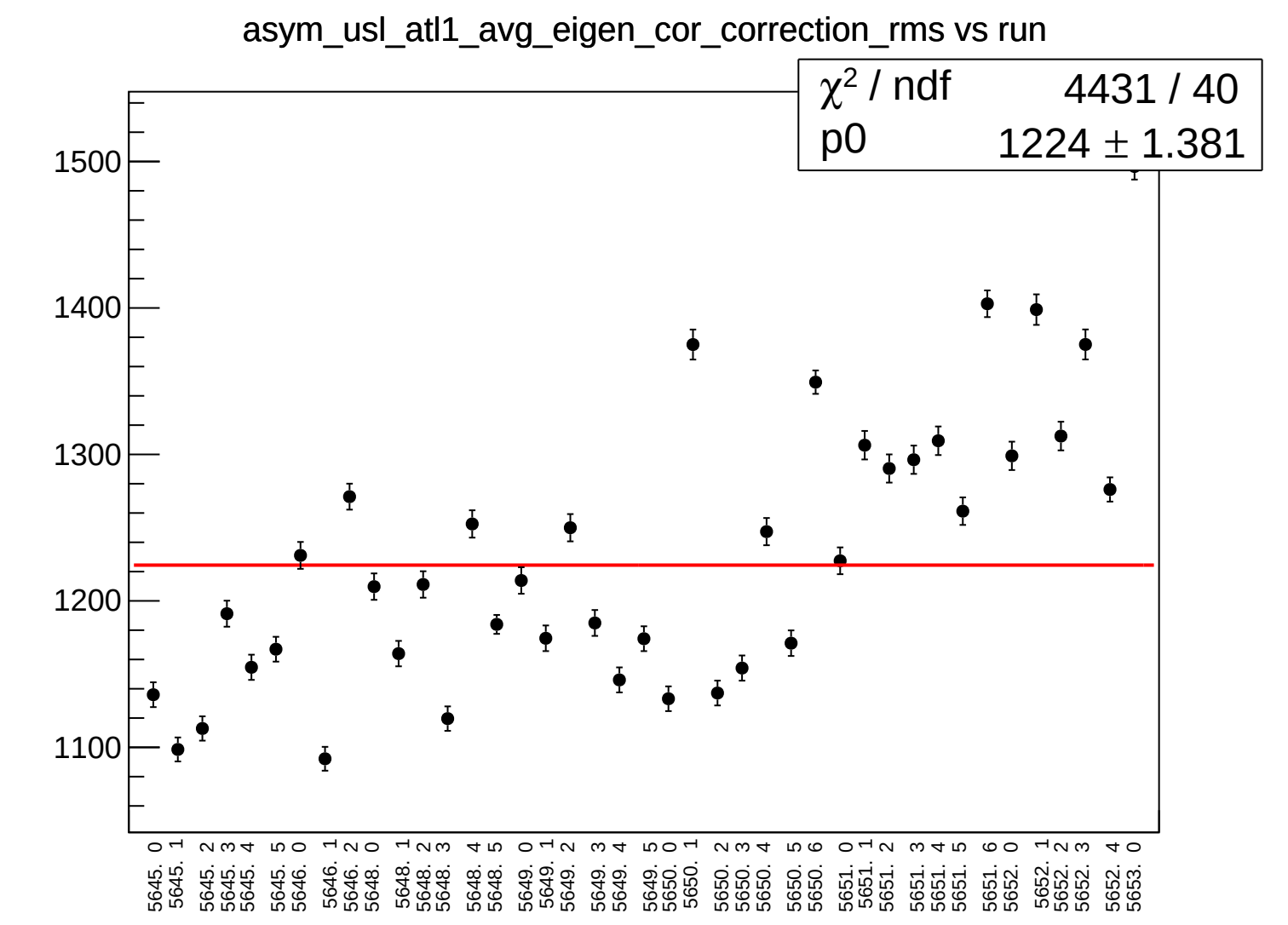

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 39.18 / 40
p0 −1172 ± 3030
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 428.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

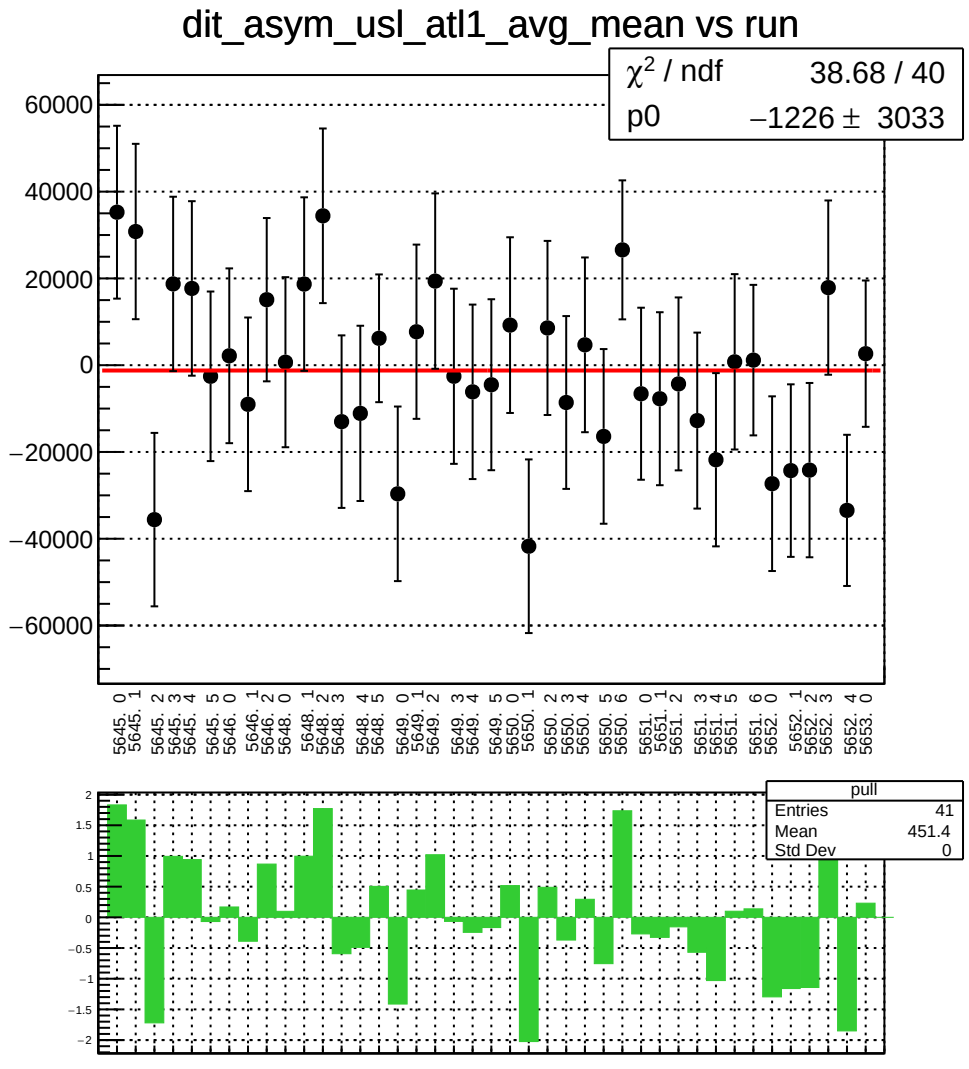

pull1D
Entries 41
Mean −0.01081
Std Dev 0.9775
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

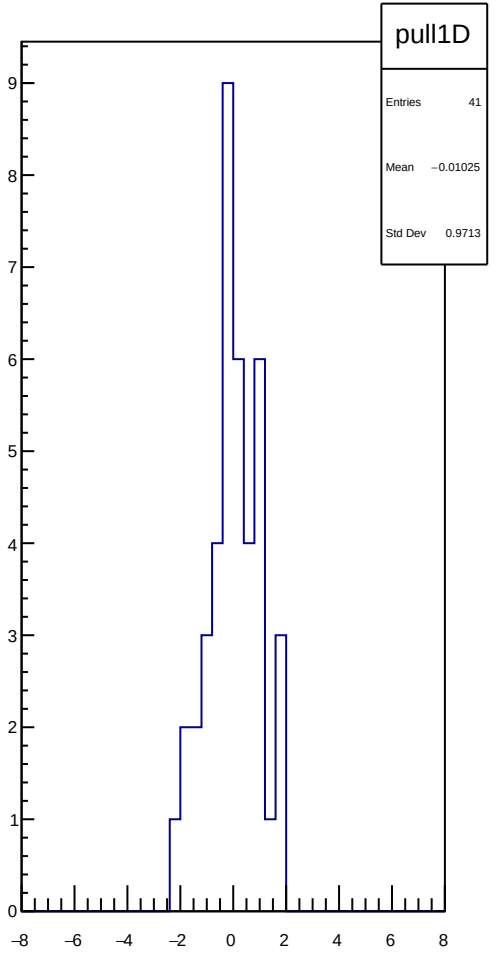

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 98.84 / 40
p0 1905 ± 2.143
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

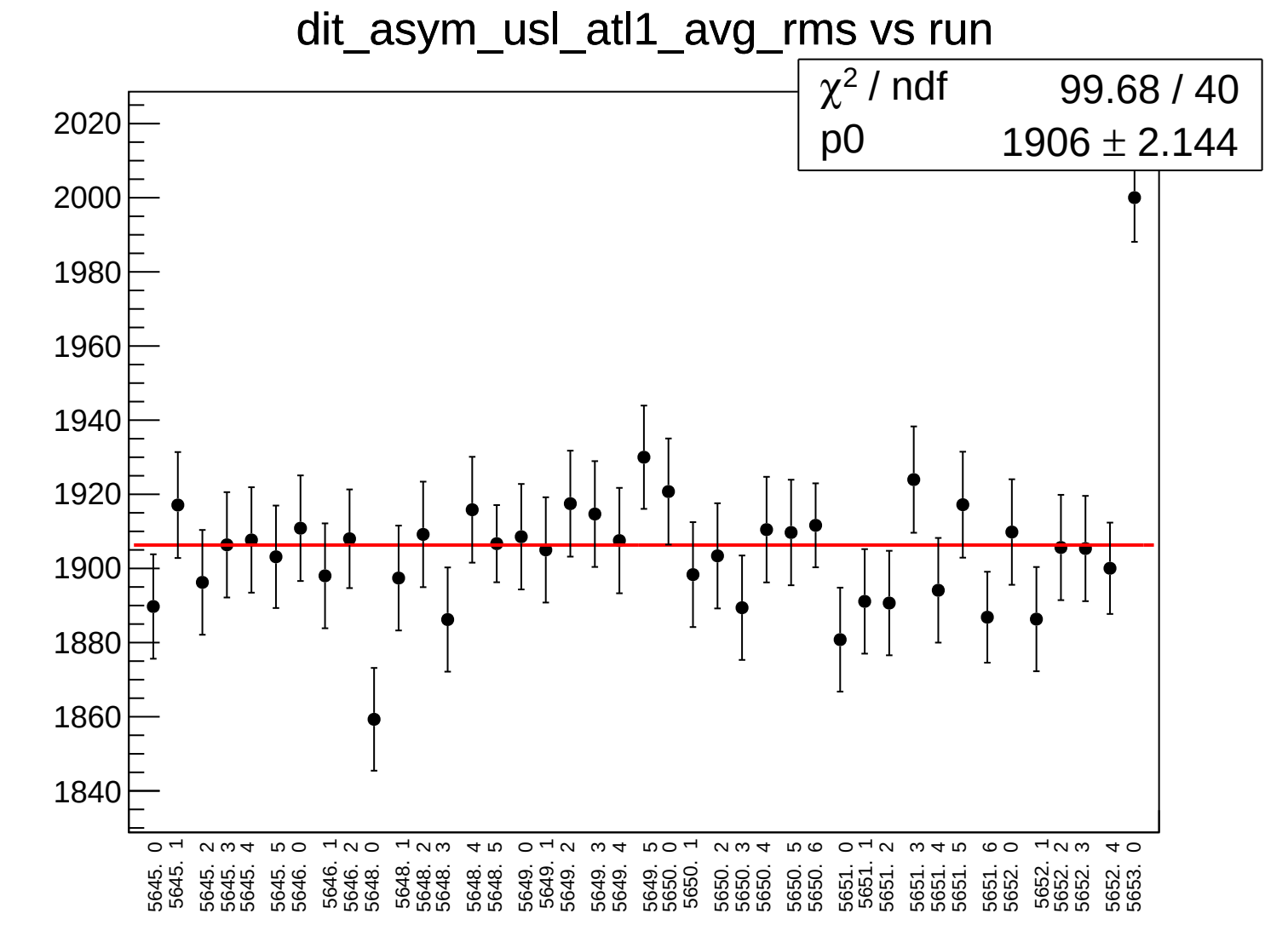

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 42.31 / 40
p0 −1647 ± 1953
pull
Entries 41
Mean 21.3
Std Dev 29.83

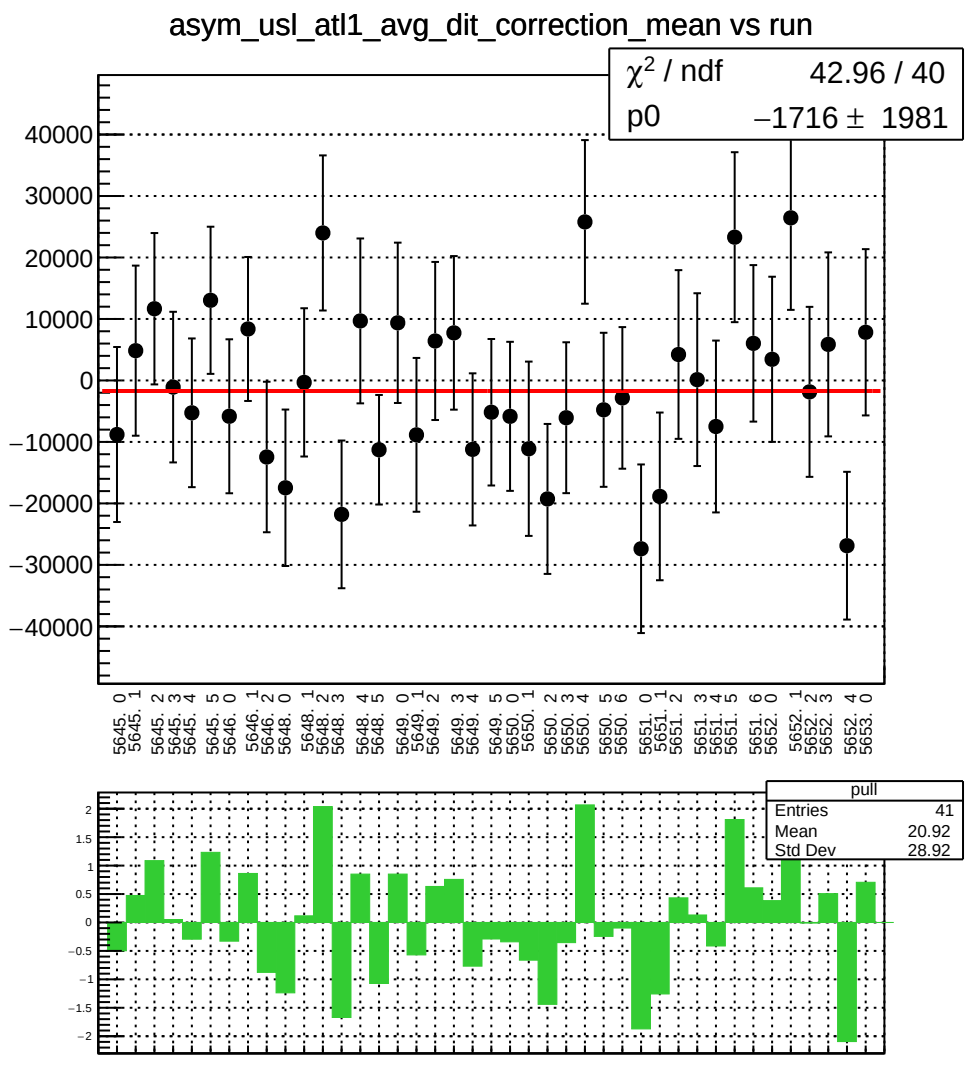

pull1D
Entries 41
Mean 0.02527
Std Dev 1.016

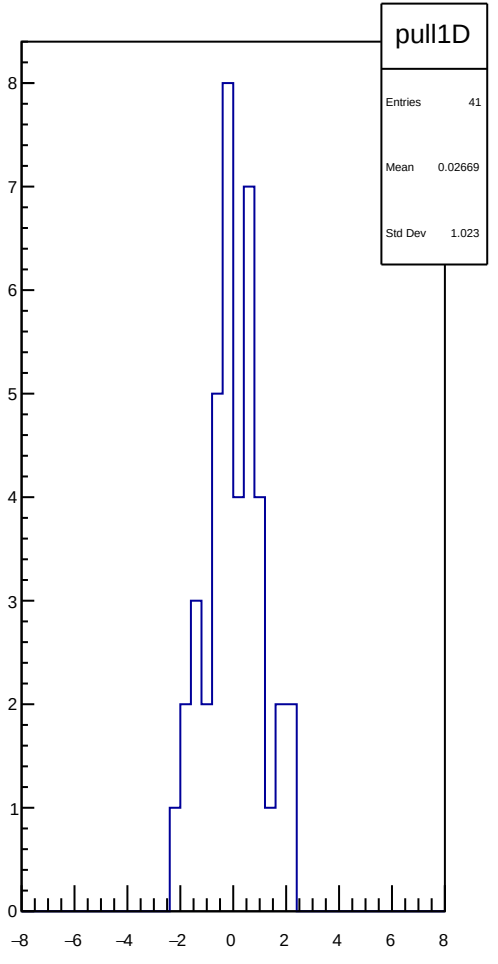

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4431 / 40
p0 1224 ± 1.381
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

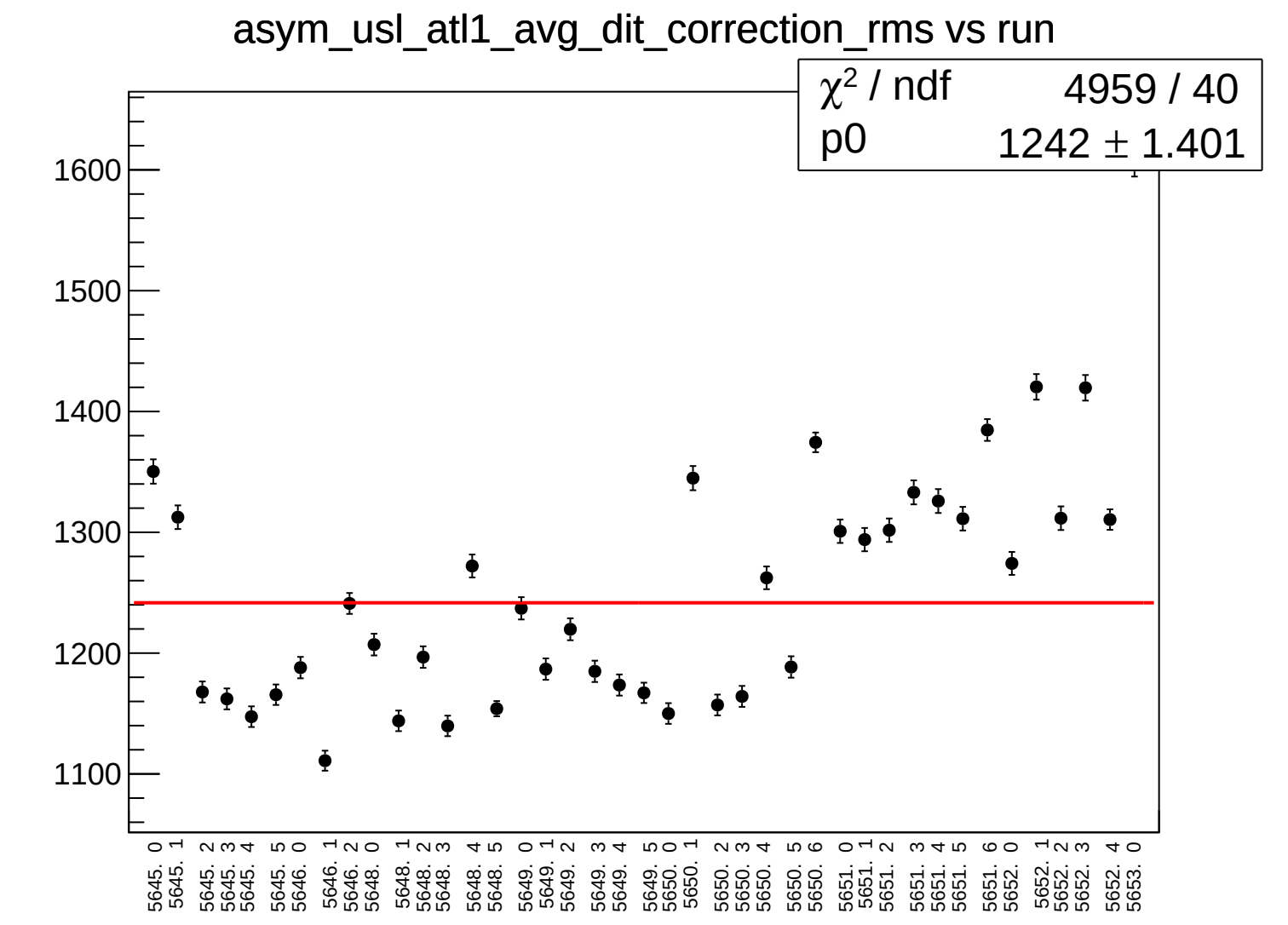

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 38.68 / 40
p0 −1226 ± 3033
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 451.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

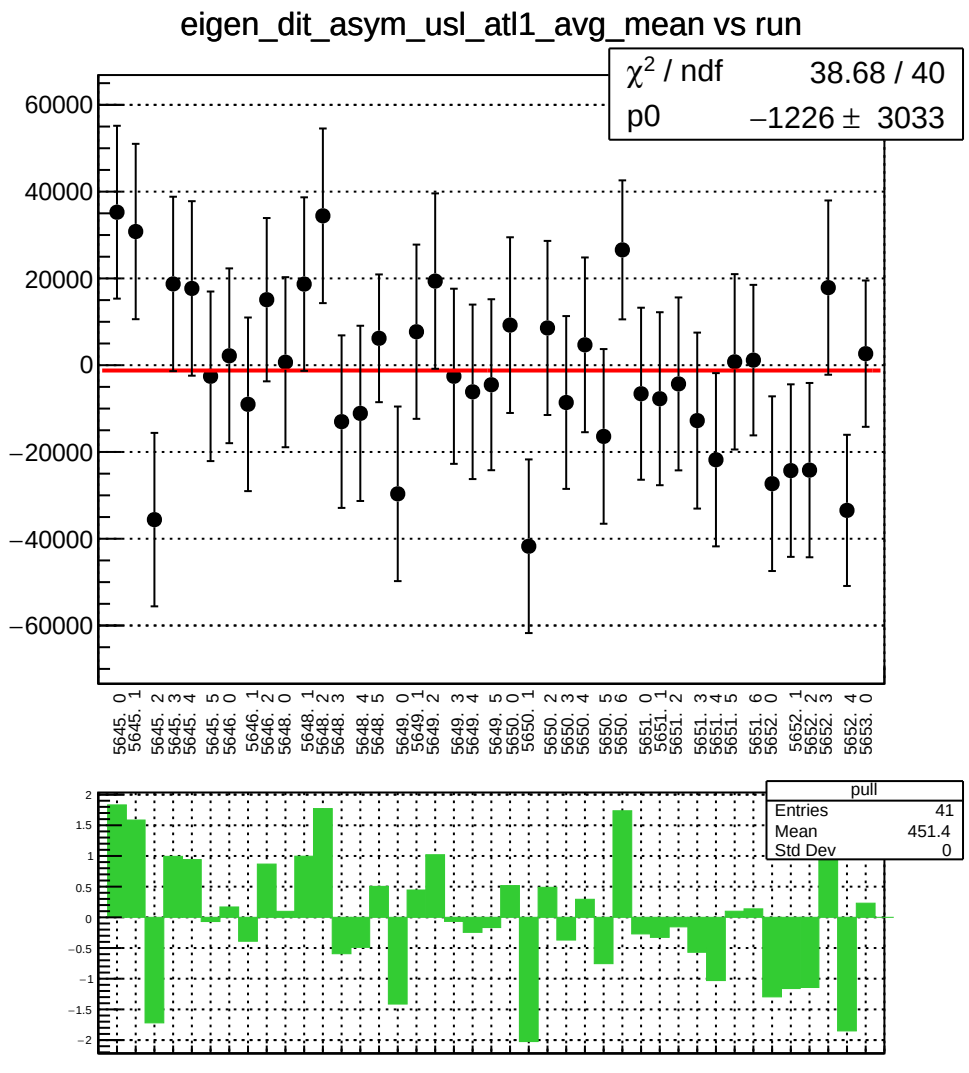

pull1D
Entries 41
Mean −0.01025
Std Dev 0.9713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

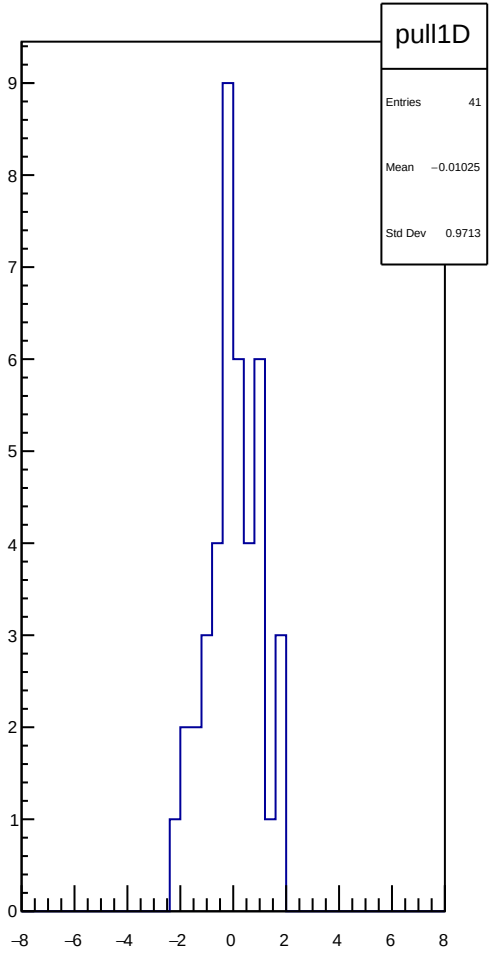

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 99.68 / 40
p0 1906 ± 2.144
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

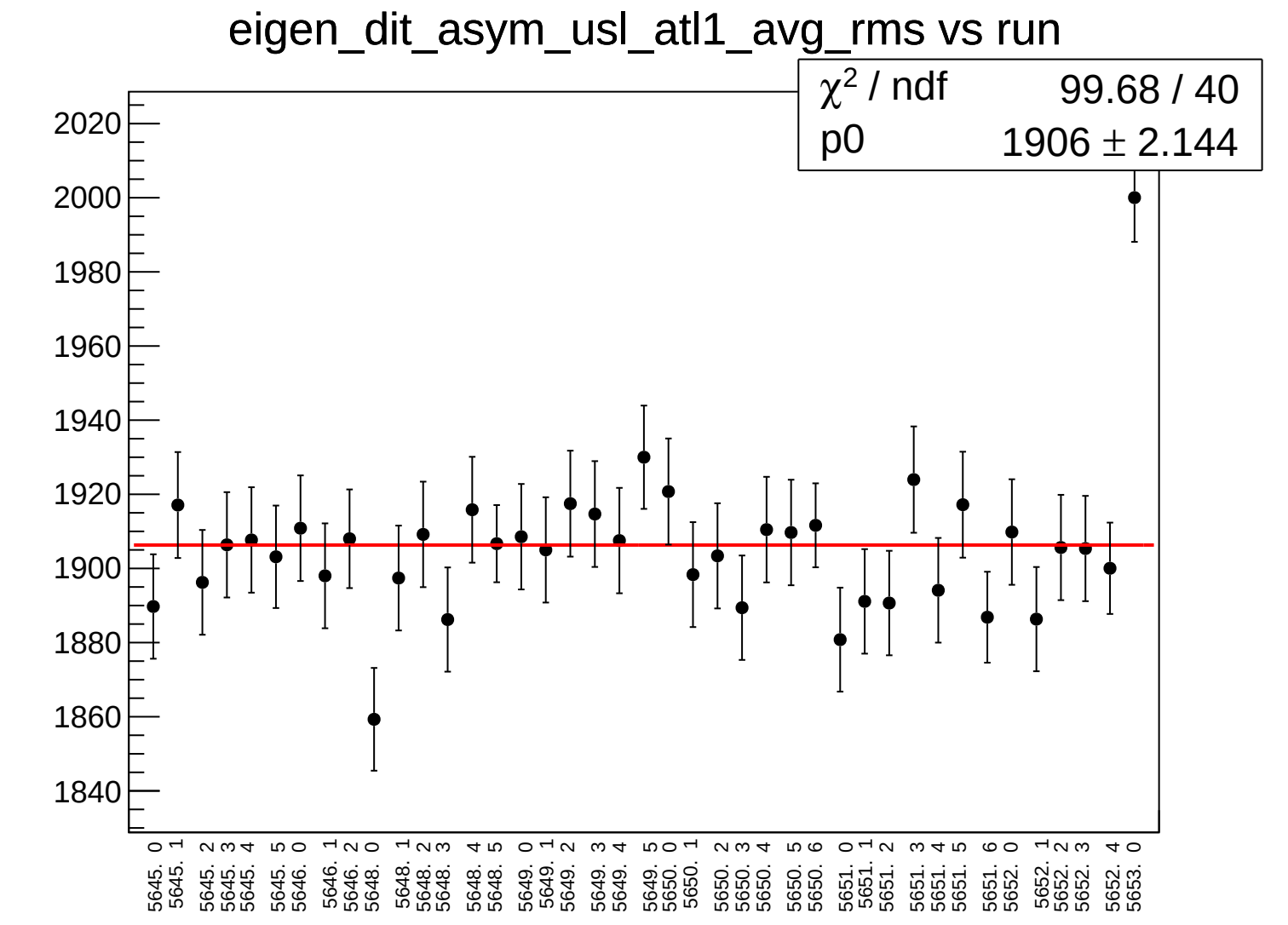

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 42.96 / 40
p0 −1716 ± 1981
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.92
Std Dev 28.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

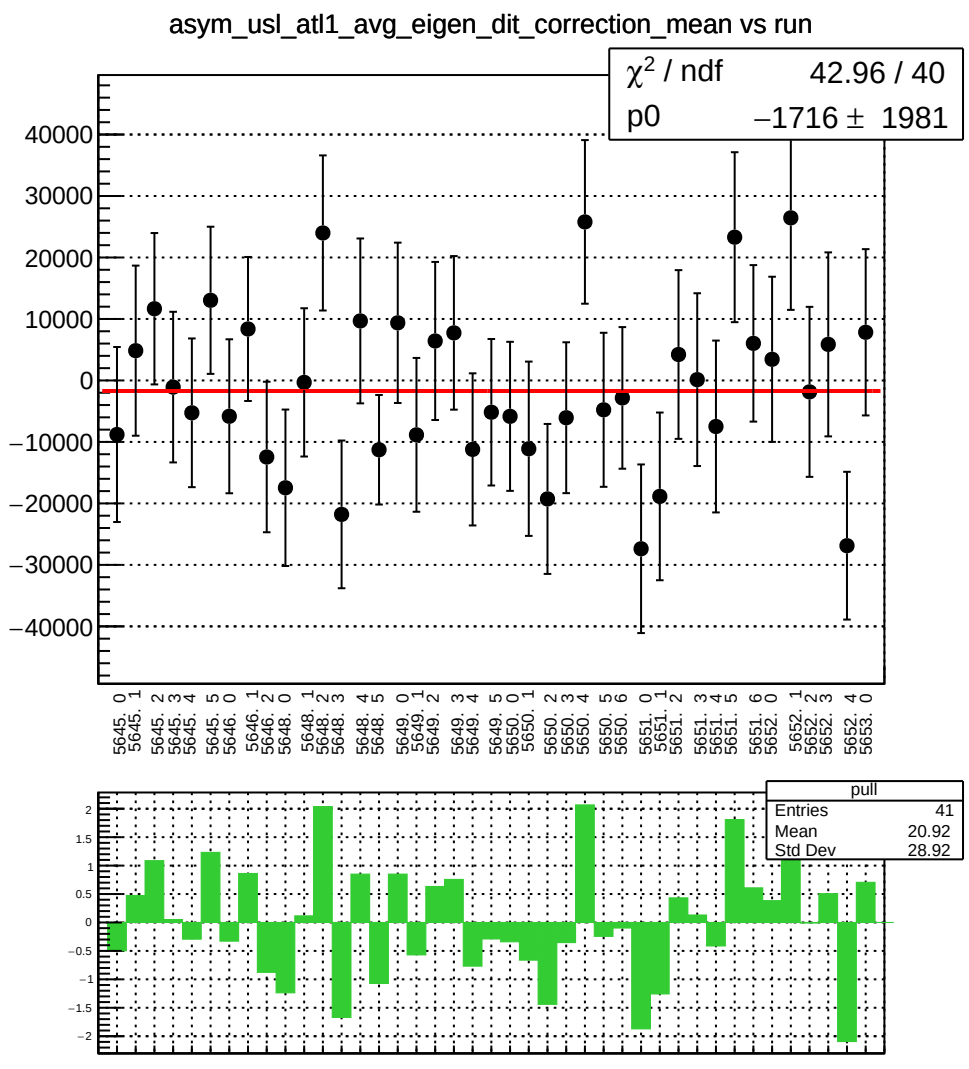

pull1D
Entries 41
Mean 0.02669
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

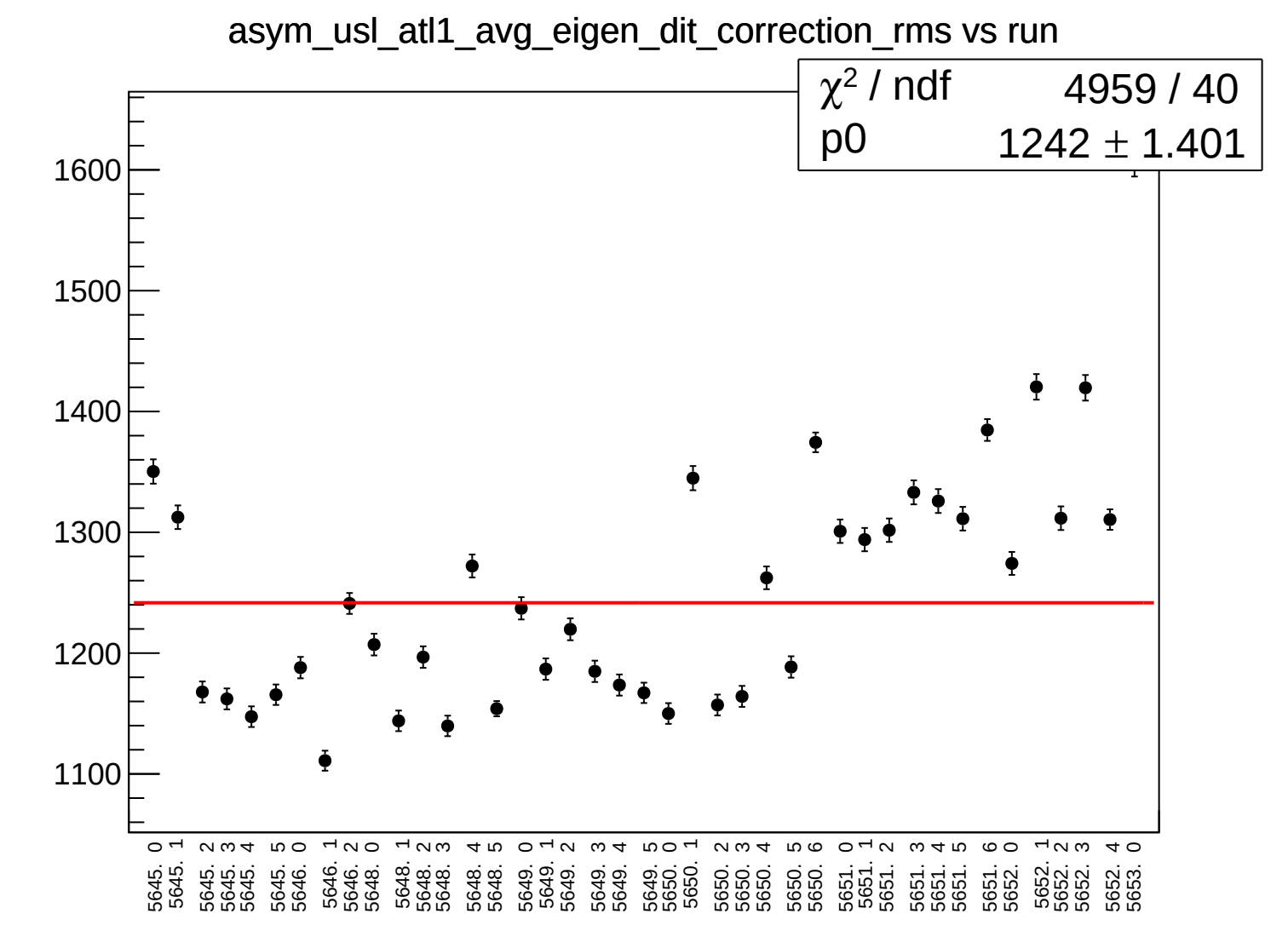

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4959 / 40
p0 1242 ± 1.401
1600
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

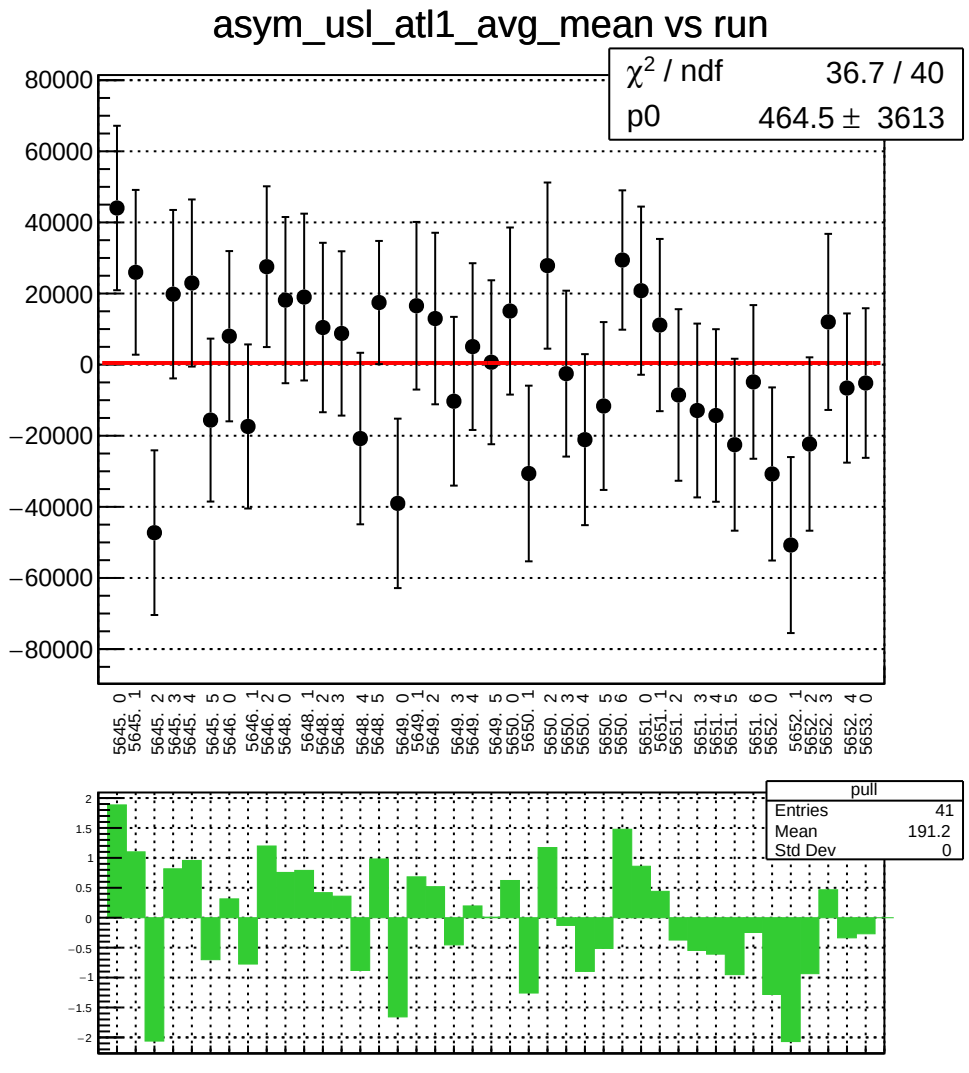

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 38.68 / 40
p0 −1226 ± 3033
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 451.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

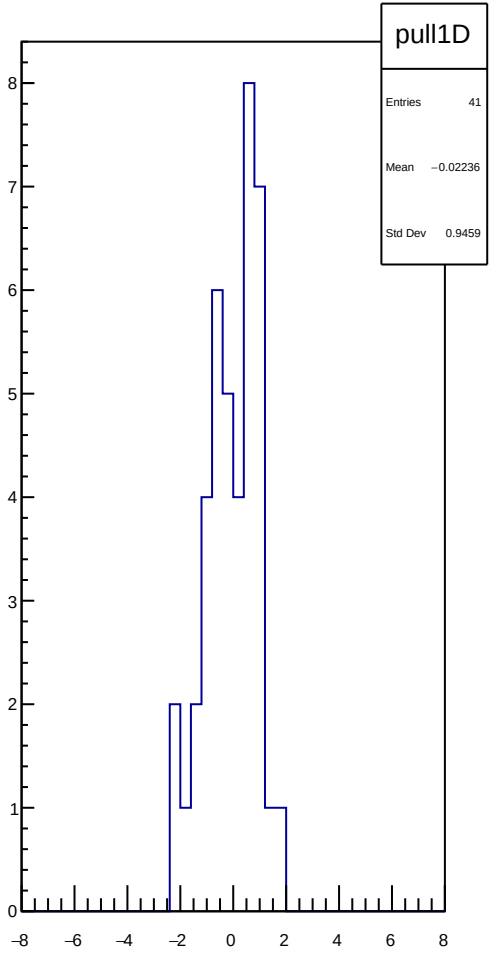

pull1D
Entries 41
Mean −0.01025
Std Dev 0.9713
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

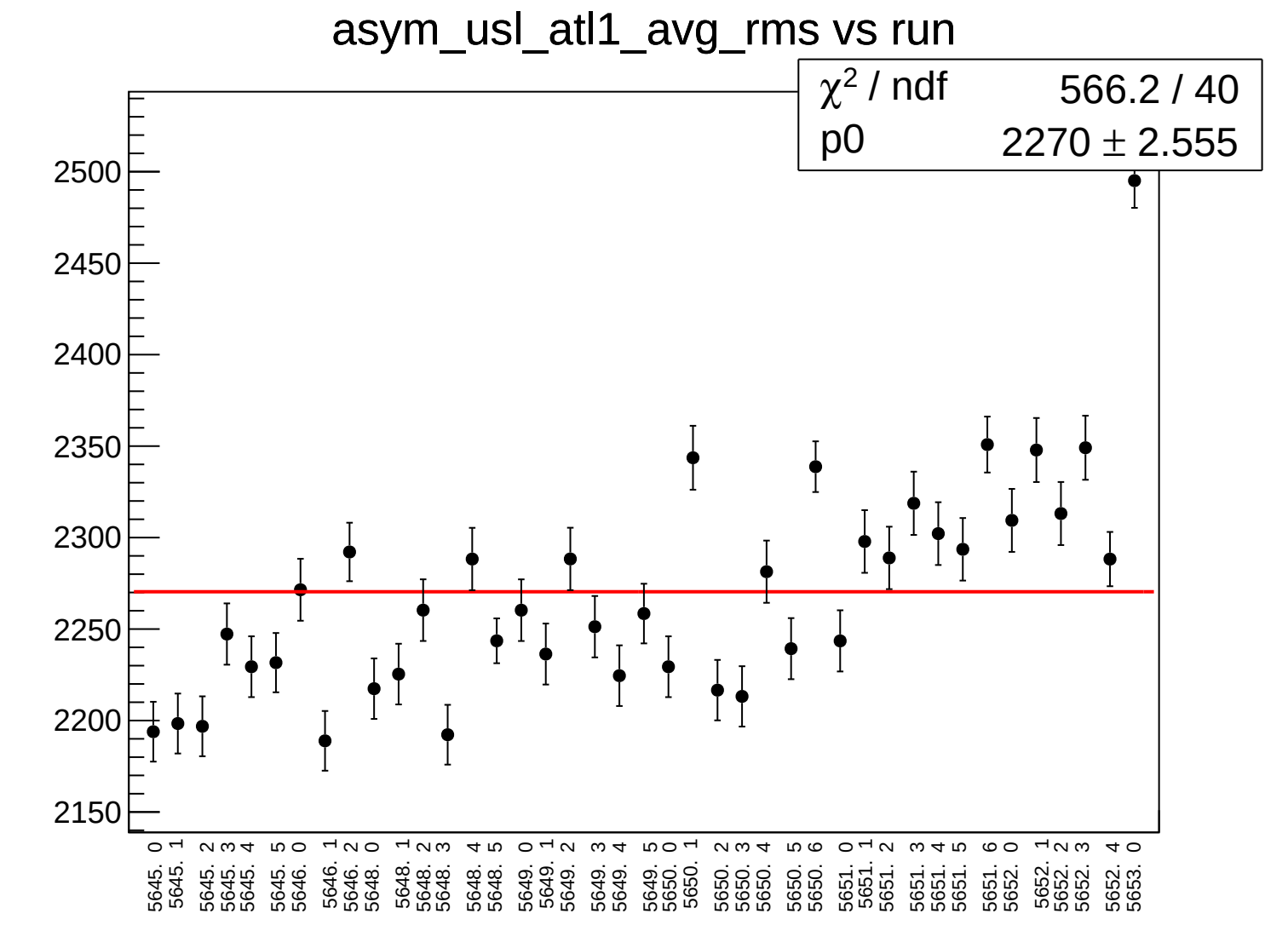

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 99.68 / 40
p0 1906 ± 2.144
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

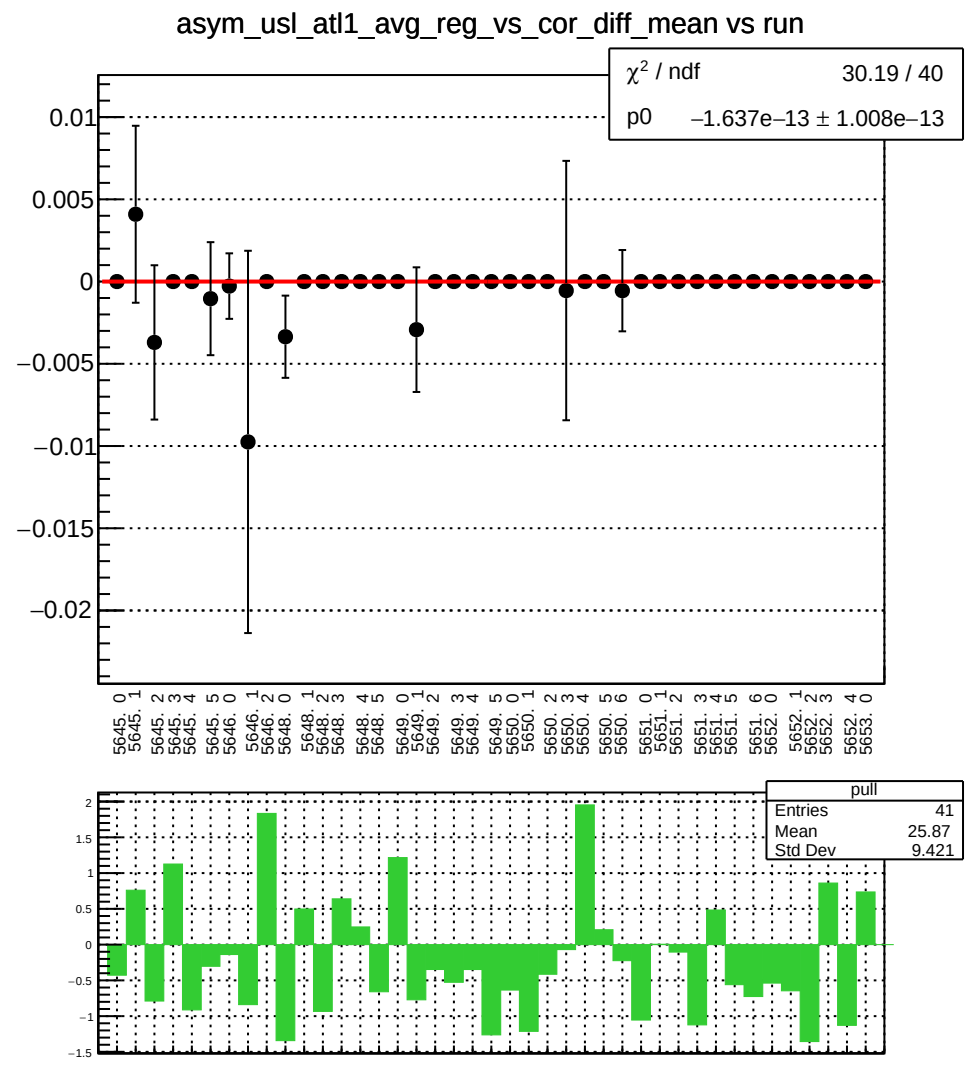

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 42.96 / 40
p0 −1716 ± 1981
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.92
Std Dev 28.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02669
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

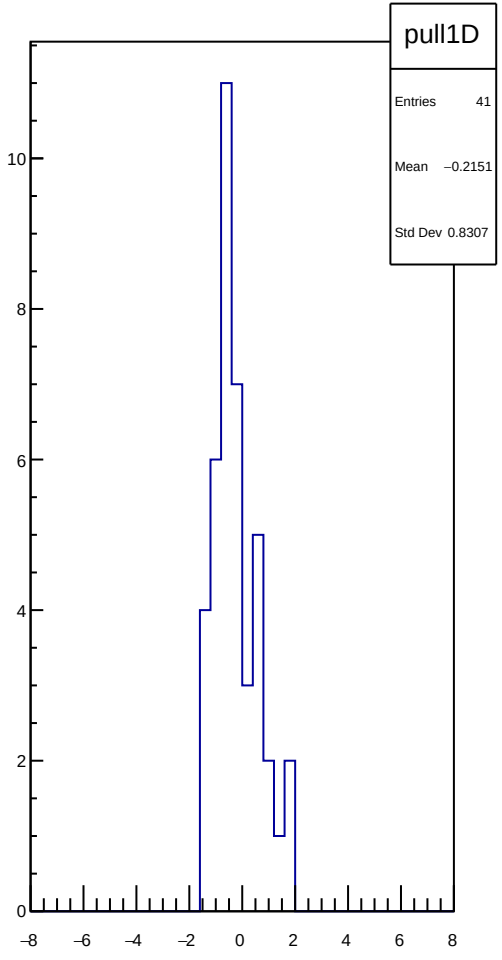

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4959 / 40
p0 1242 ± 1.401
1600
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

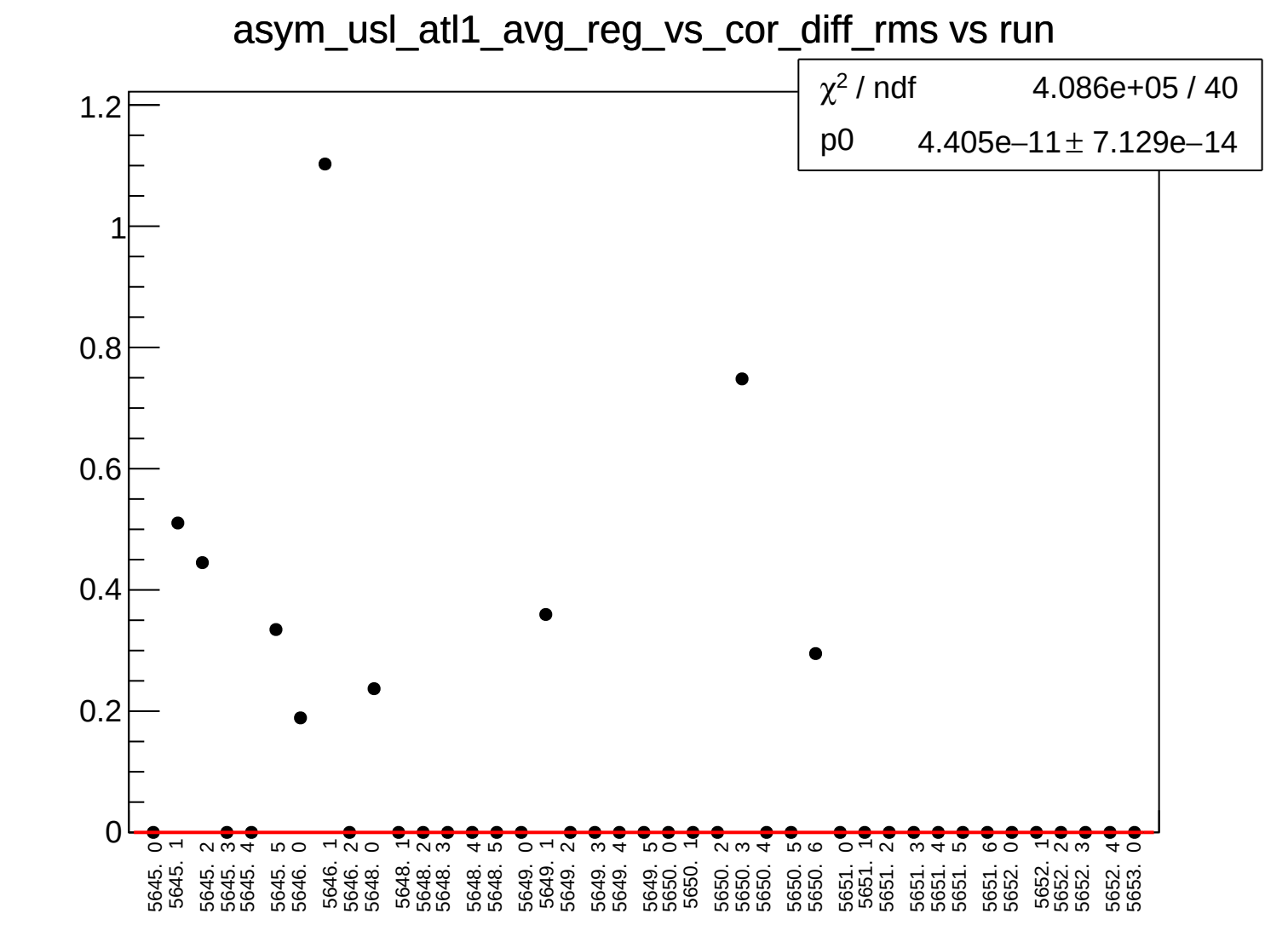

asym_usl_atl1_avg_mean vs run
χ² / ndf 36.7 / 40
p0 464.5 ± 3613
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 191.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

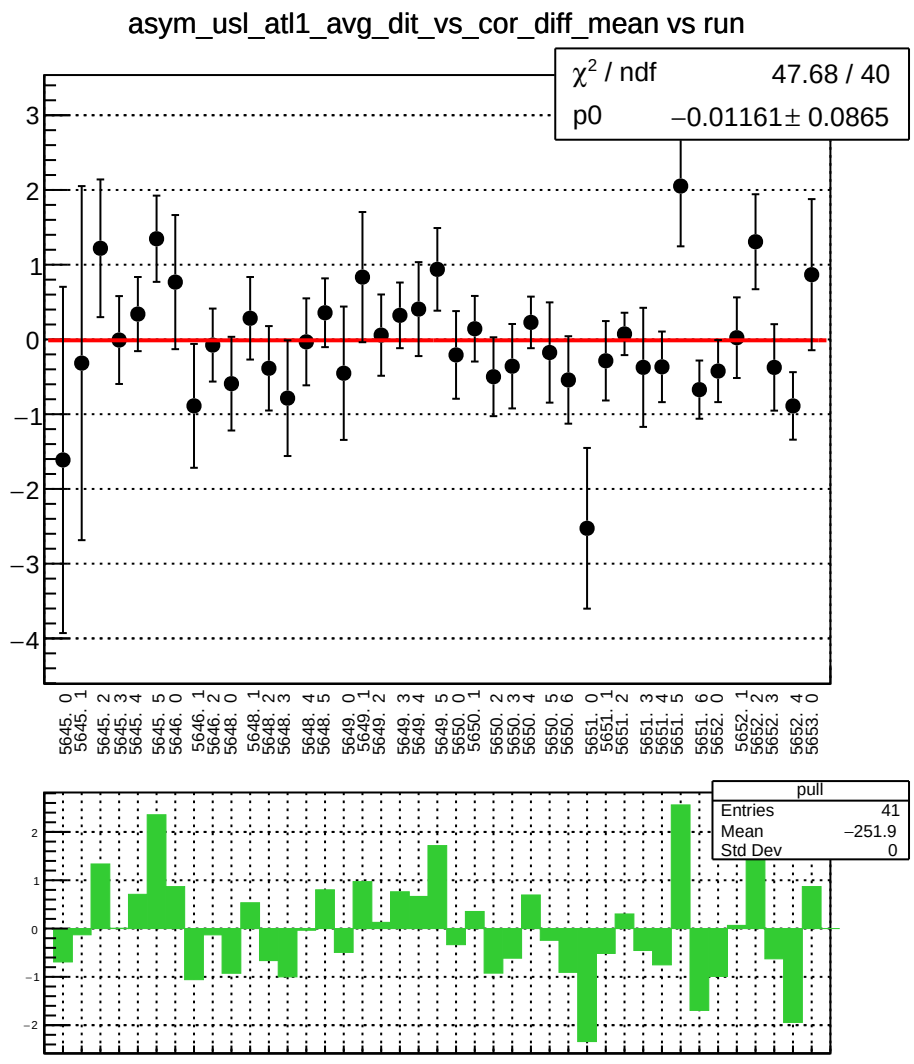

pull1D
Entries 41
Mean −0.02236
Std Dev 0.9459
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

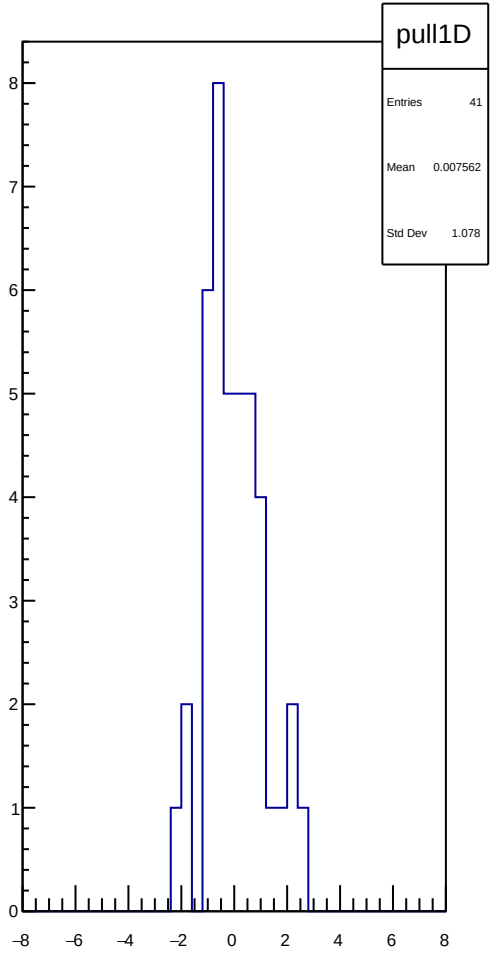

asym_usl_atl1_avg_rms vs run
χ² / ndf 566.2 / 40
p0 2270 ± 2.555
2500
2450
2400
2350
2300
2250
2200
2150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

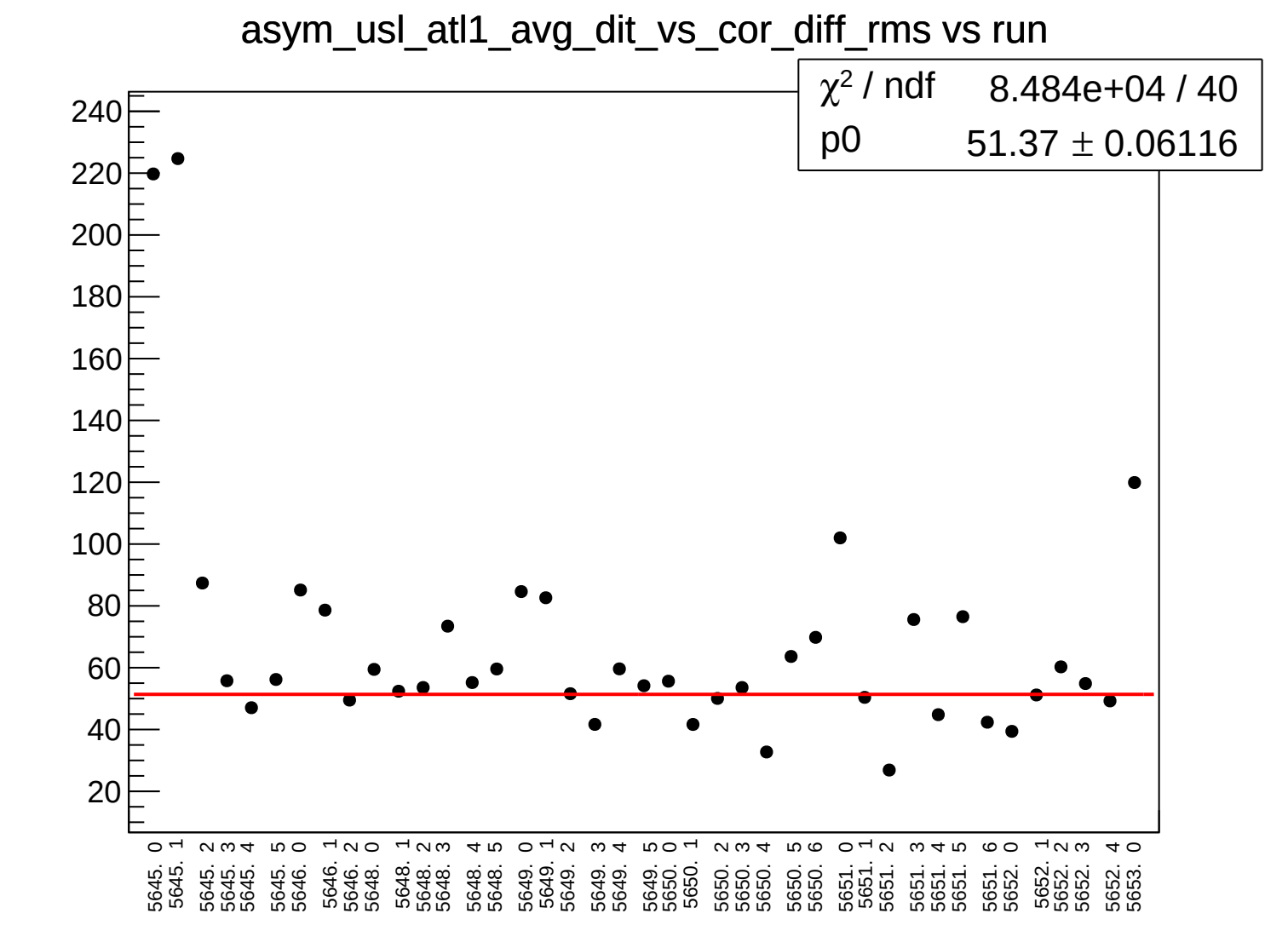

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.19 / 40
p0 −1.637e−13 ± 1.008e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 25.87
Std Dev 9.421
2
1.5
1
0.5
0
−0.5
−1
−1.5

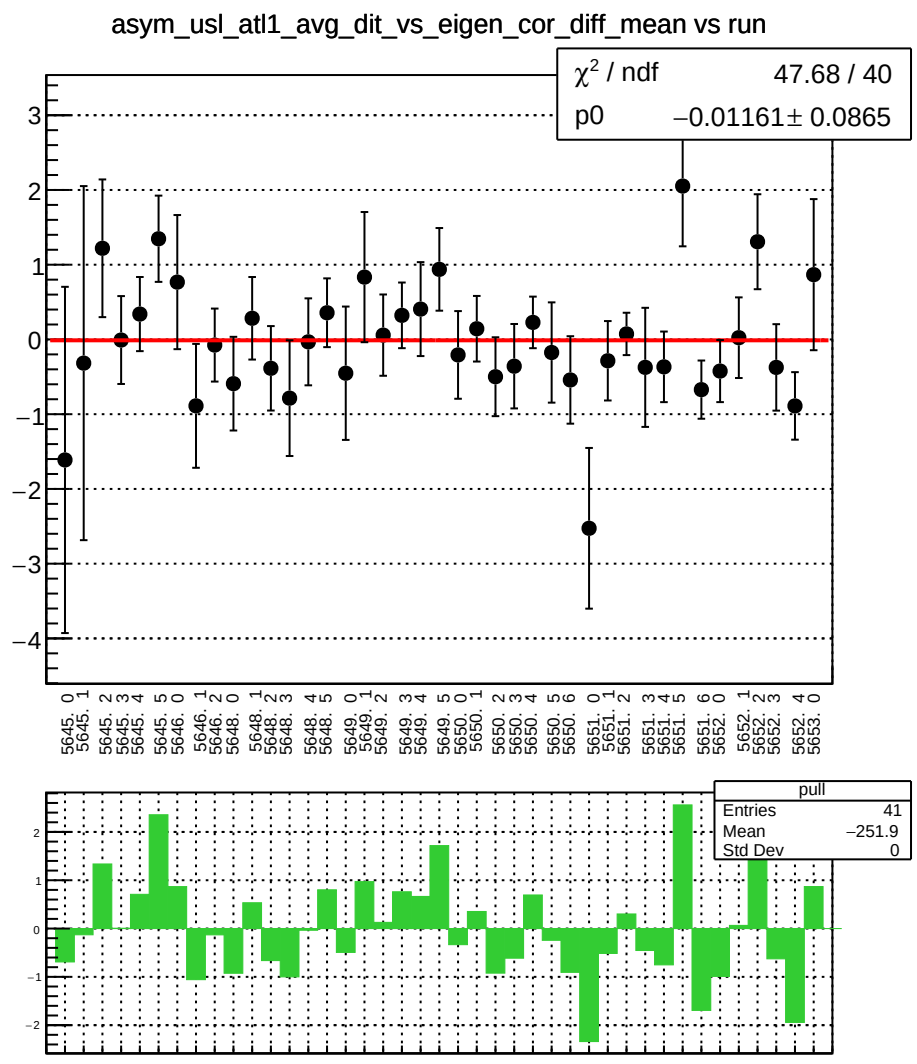

pull1D
Entries 41
Mean −0.2151
Std Dev 0.8307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

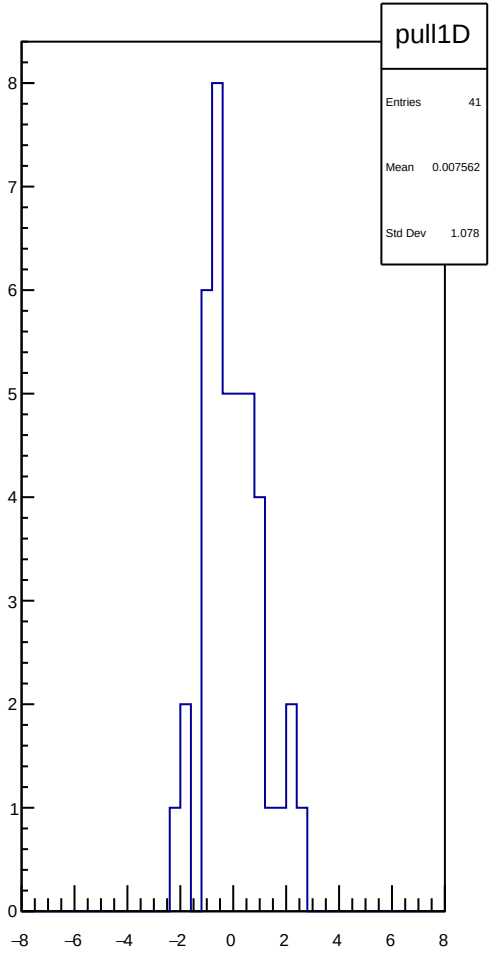

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.086e+05 / 40
p0 4.405e−11 ± 7.129e−14
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

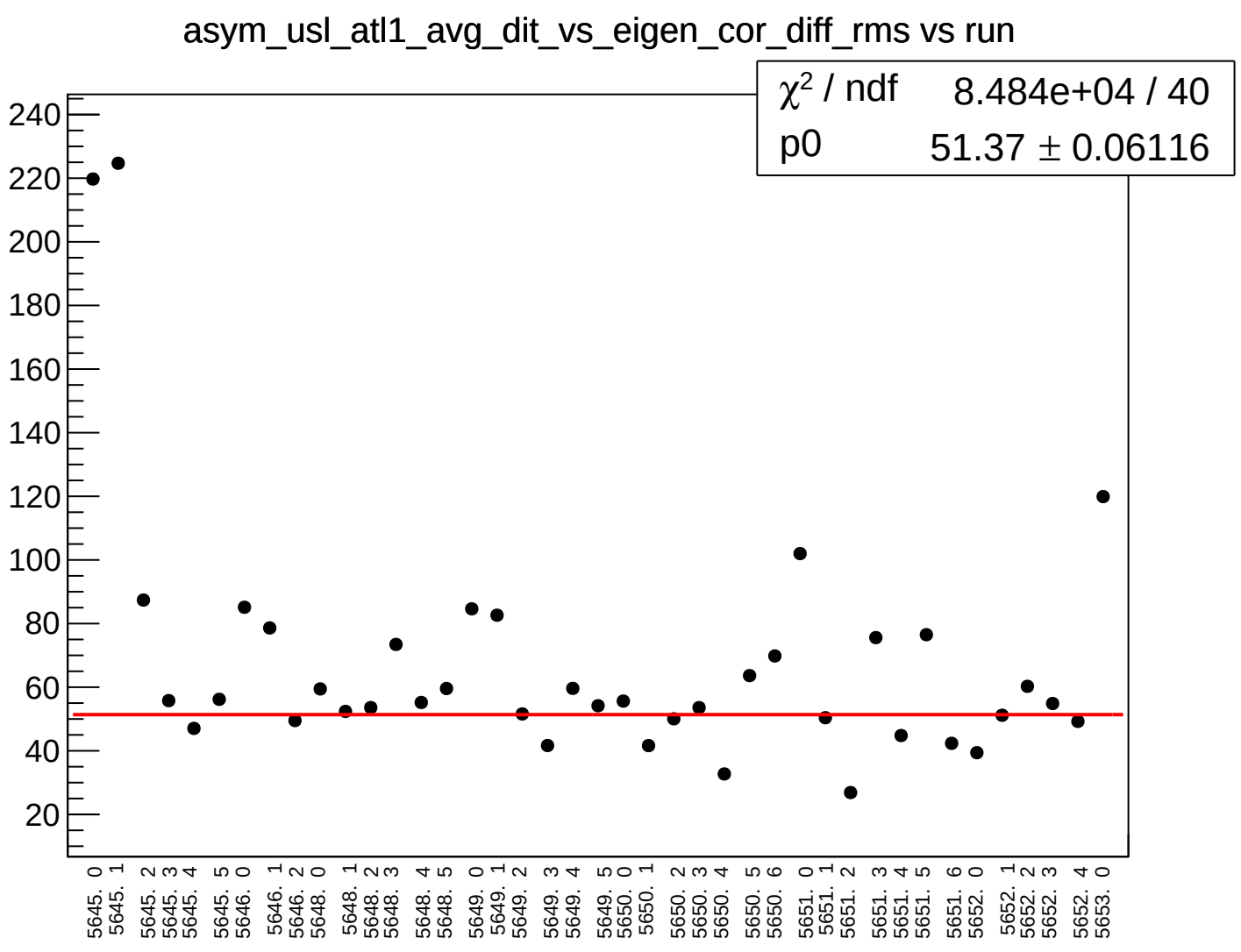

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.68 / 40
p0 −0.01161 ± 0.0865
pull
Entries 41
Mean −251.9
Std Dev 0

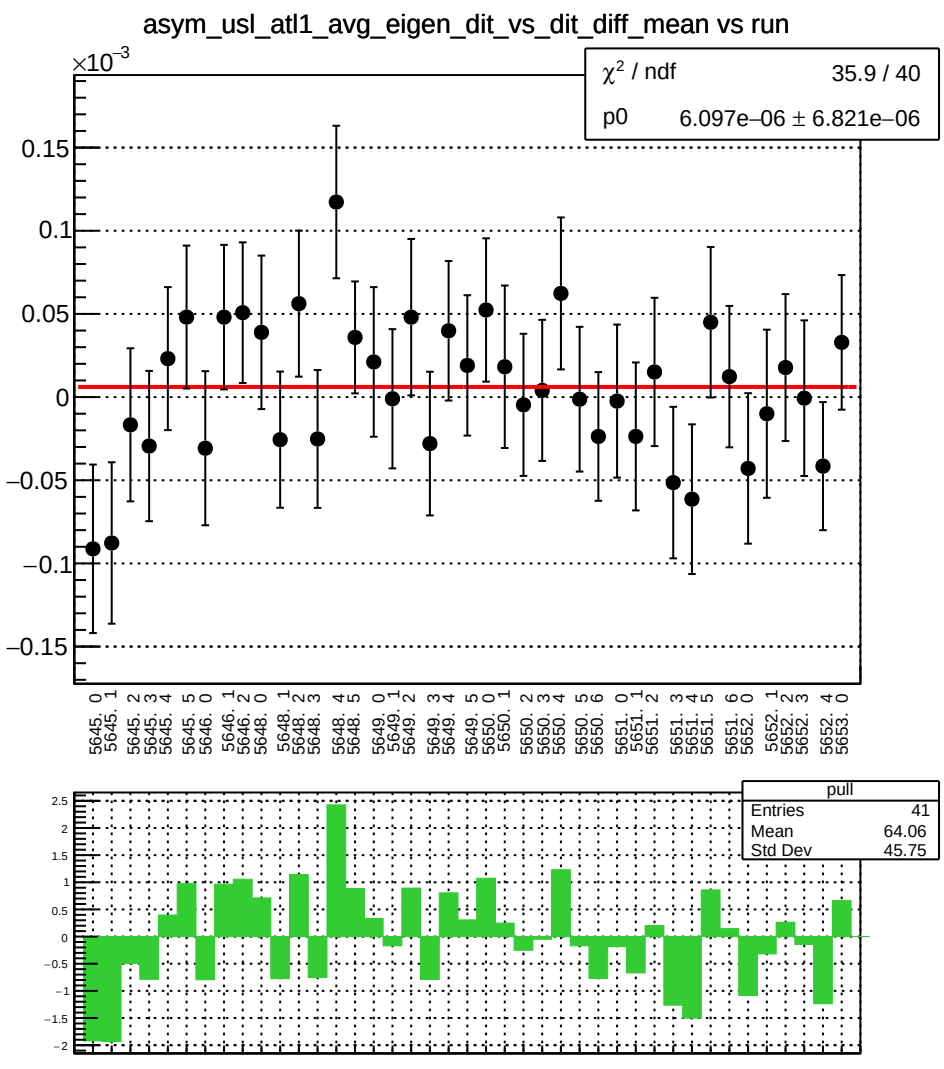

pull1D
Entries 41
Mean 0.007562
Std Dev 1.078

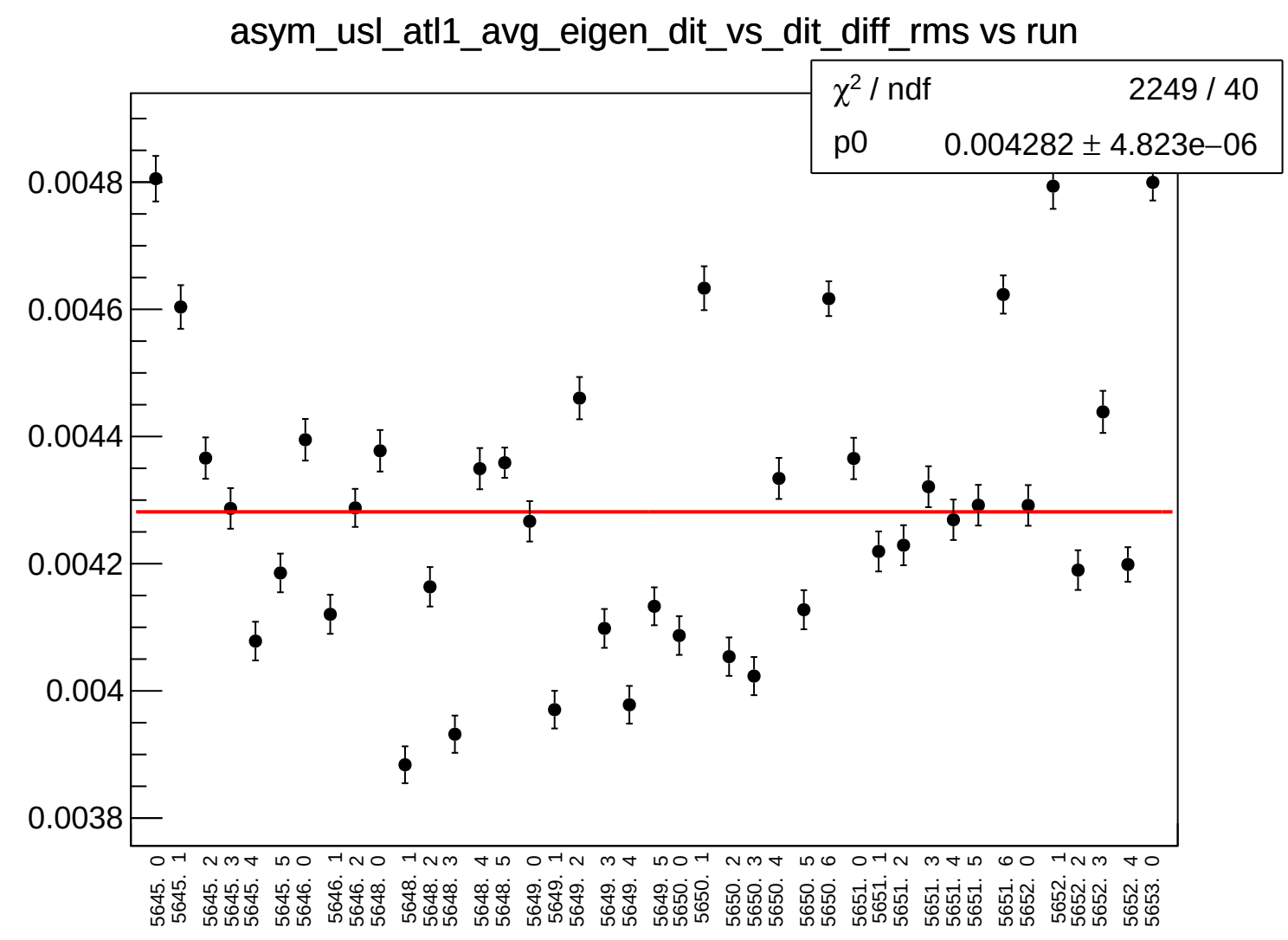

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.484e+04 / 40
p0 51.37 ± 0.06116
240
220
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

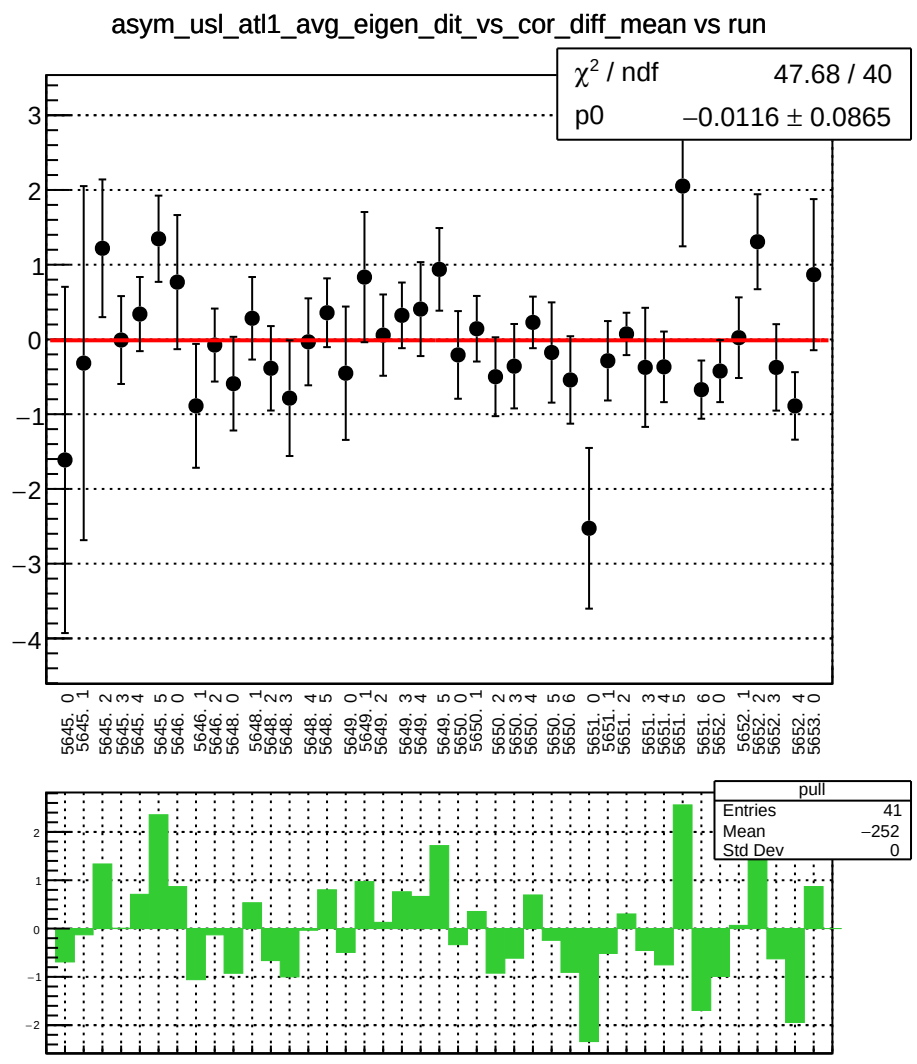

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.68 / 40
p0 −0.01161 ± 0.0865
pull
Entries 41
Mean −251.9
Std Dev 0

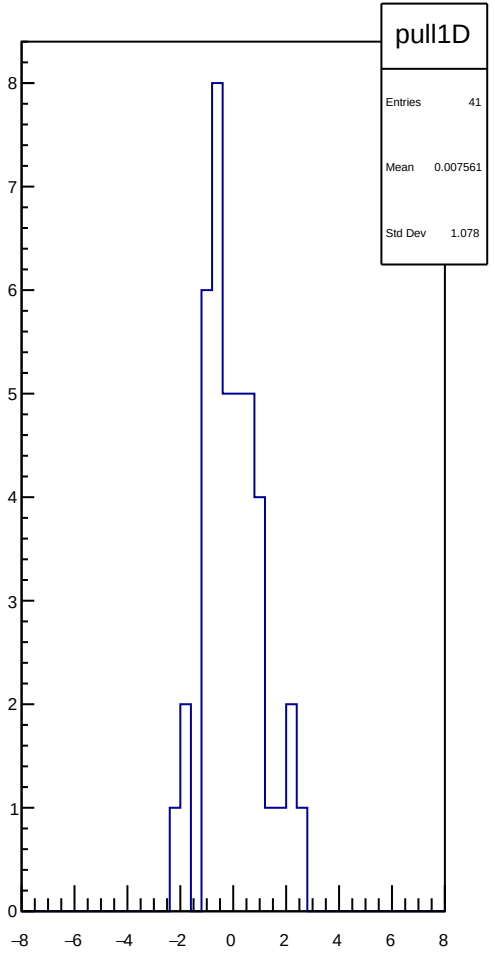

pull1D
Entries 41
Mean 0.007562
Std Dev 1.078

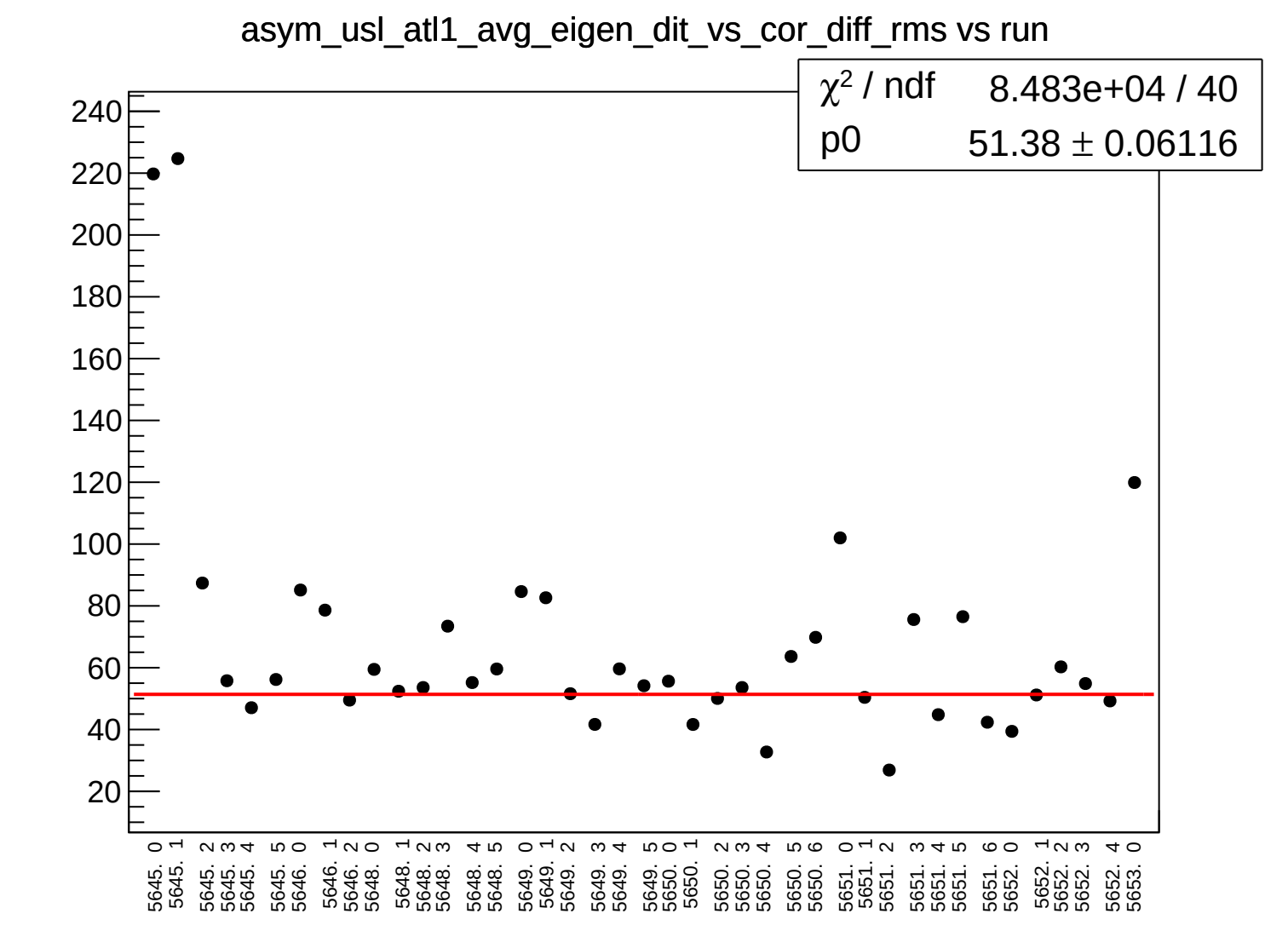

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.484e+04 / 40
p0 51.37 ± 0.06116
240
220
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

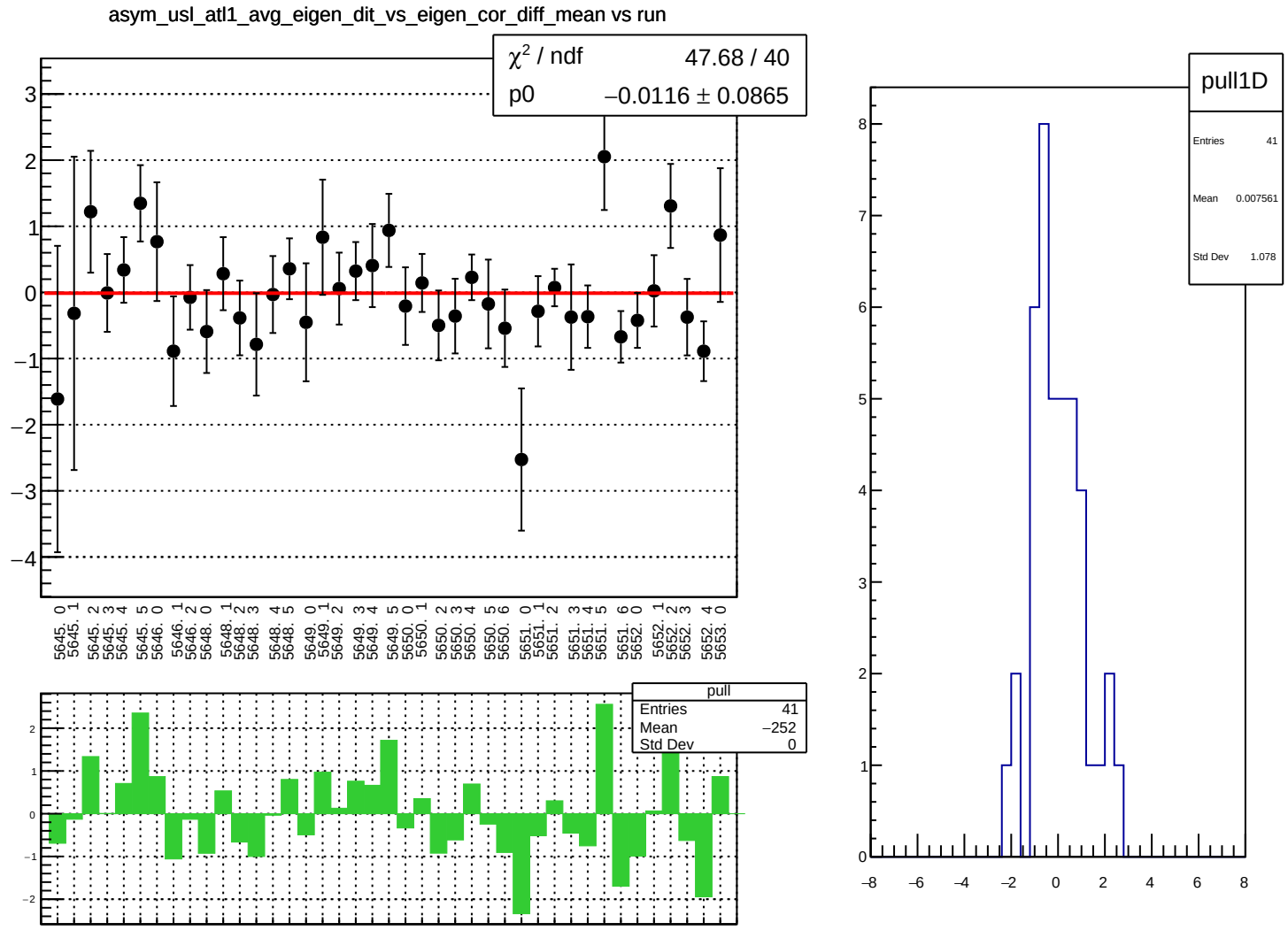

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.9 / 40
p0 6.097e−06 ± 6.821e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 64.06
Std Dev 45.75
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01156
Std Dev 0.9357
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

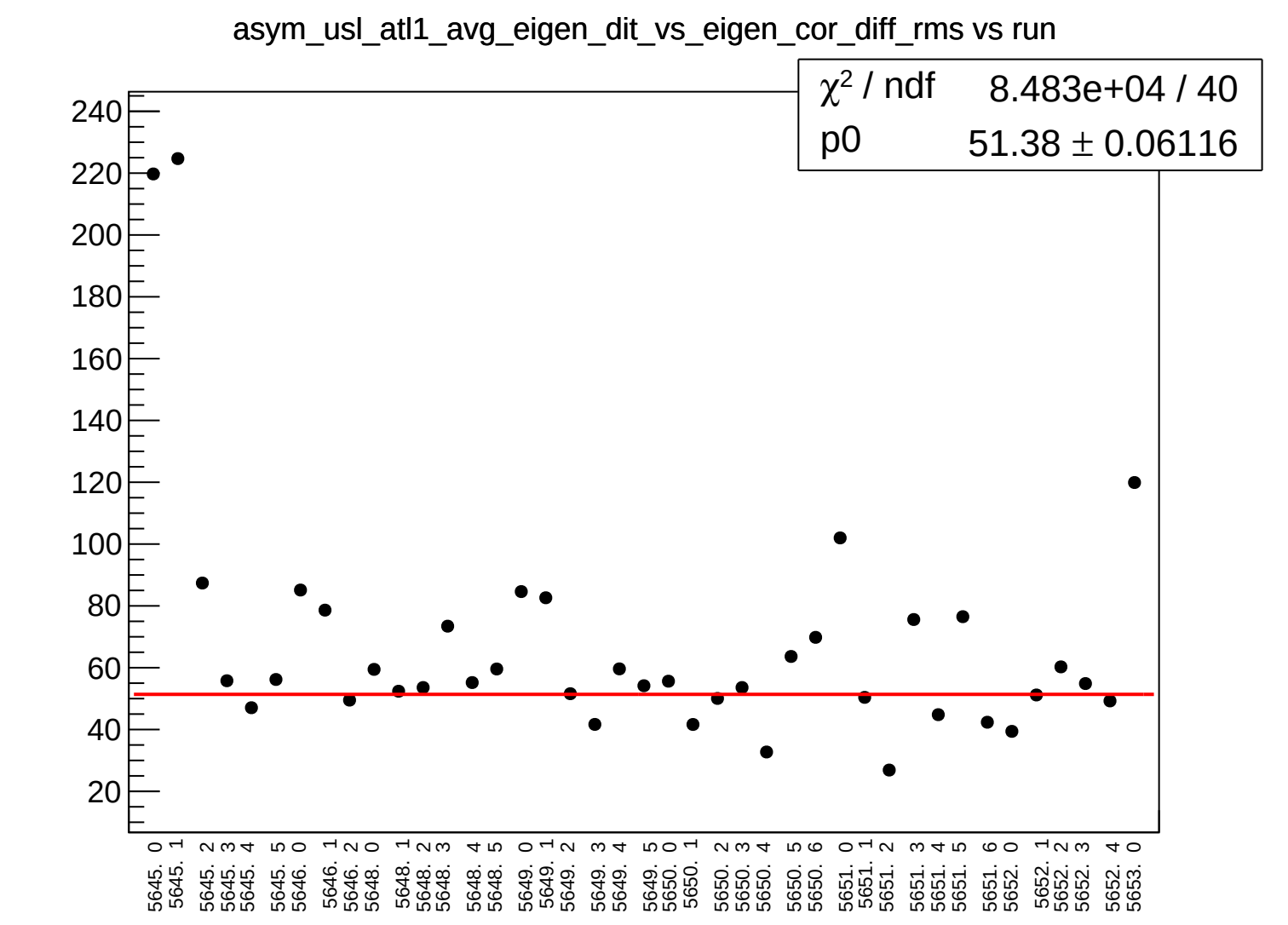

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2249 / 40
p0 0.004282 ± 4.823e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

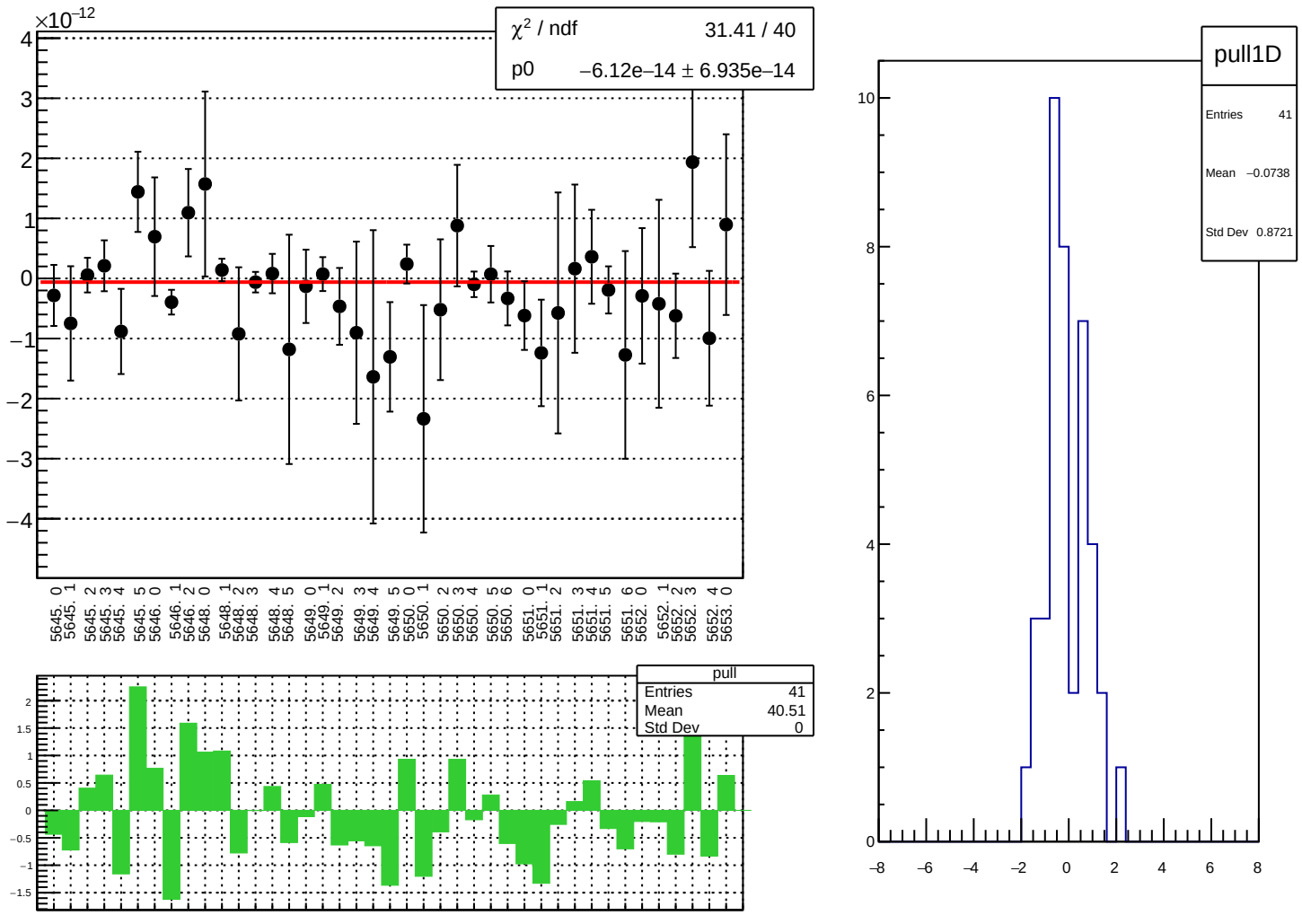

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.68 / 40
p0 −0.0116 ± 0.0865
pull
Entries 41
Mean −252
Std Dev 0

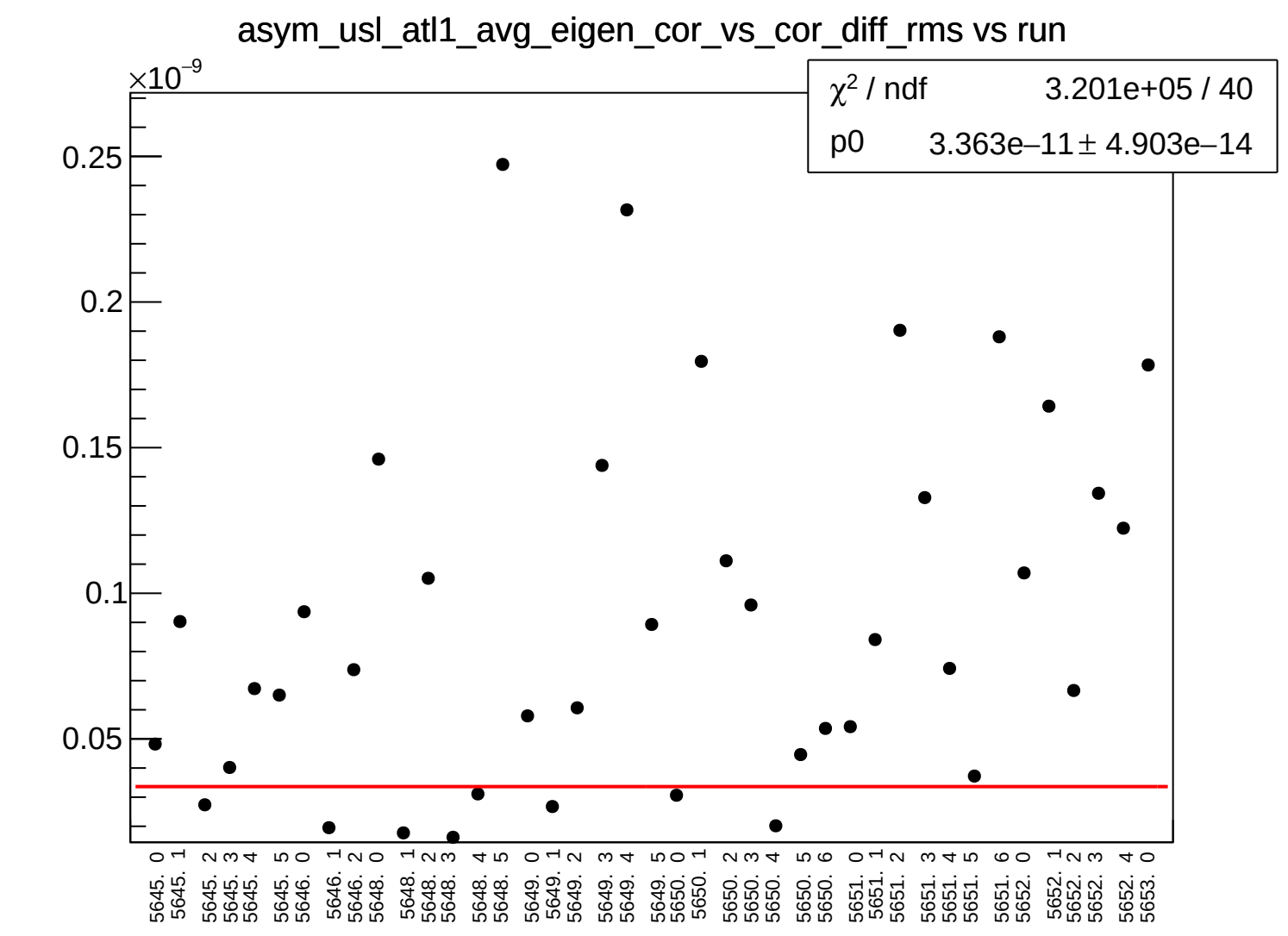

pull1D
Entries 41
Mean 0.007561
Std Dev 1.078

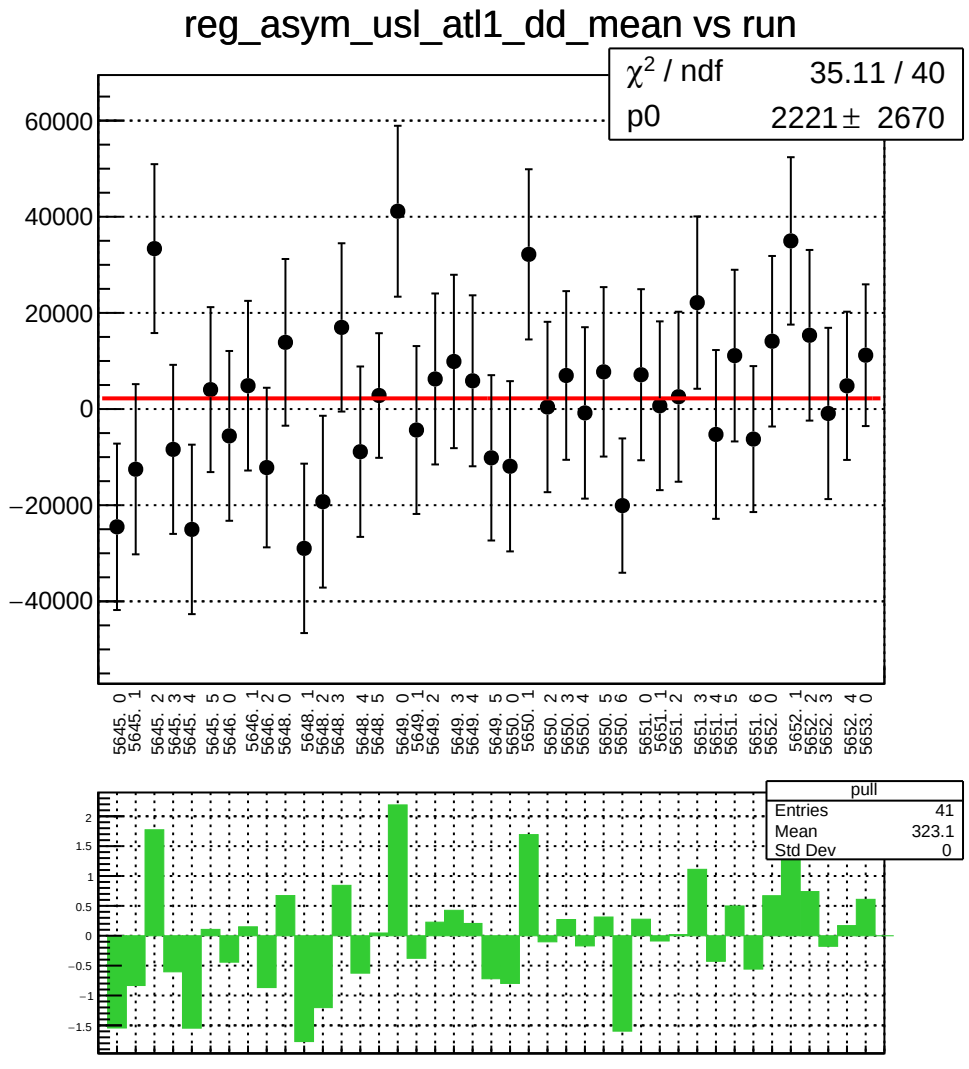

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.483e+04 / 40
p0 51.38 ± 0.06116
240
220
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

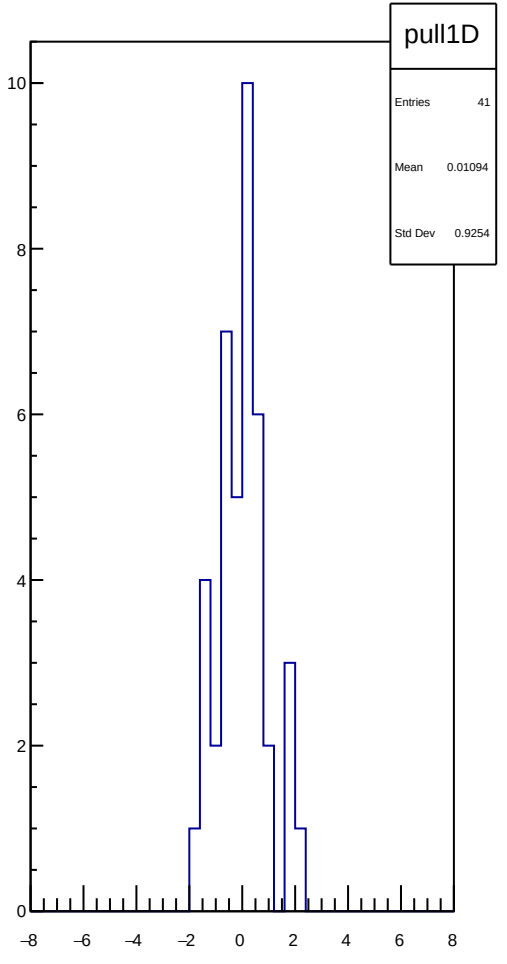

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.68 / 40
p0 −0.0116 ± 0.0865
pull
Entries 41
Mean −252
Std Dev 0
pull1D
Entries 41
Mean 0.007561
Std Dev 1.078

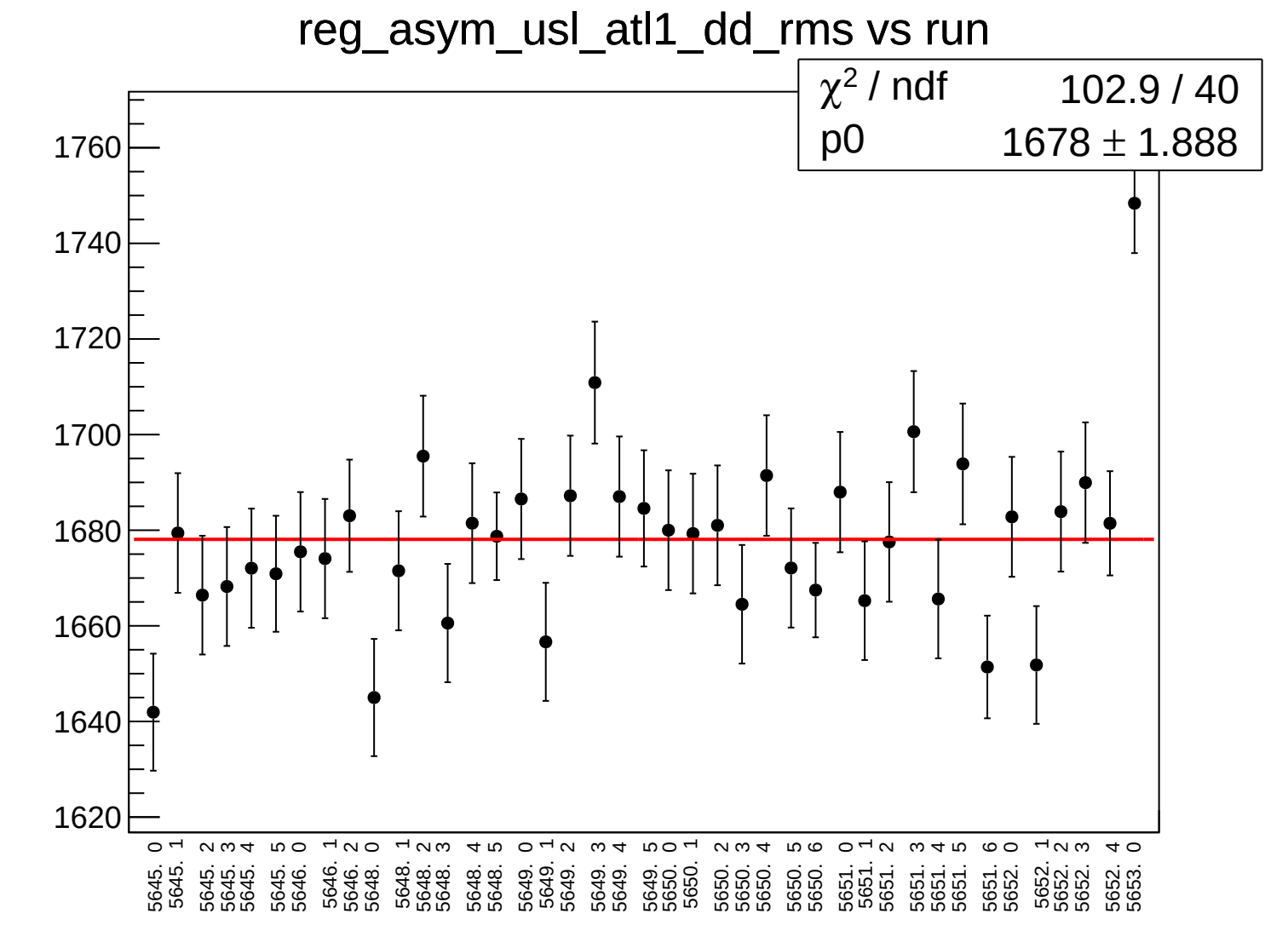

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.483e+04 / 40
p0 51.38 ± 0.06116
240
220
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

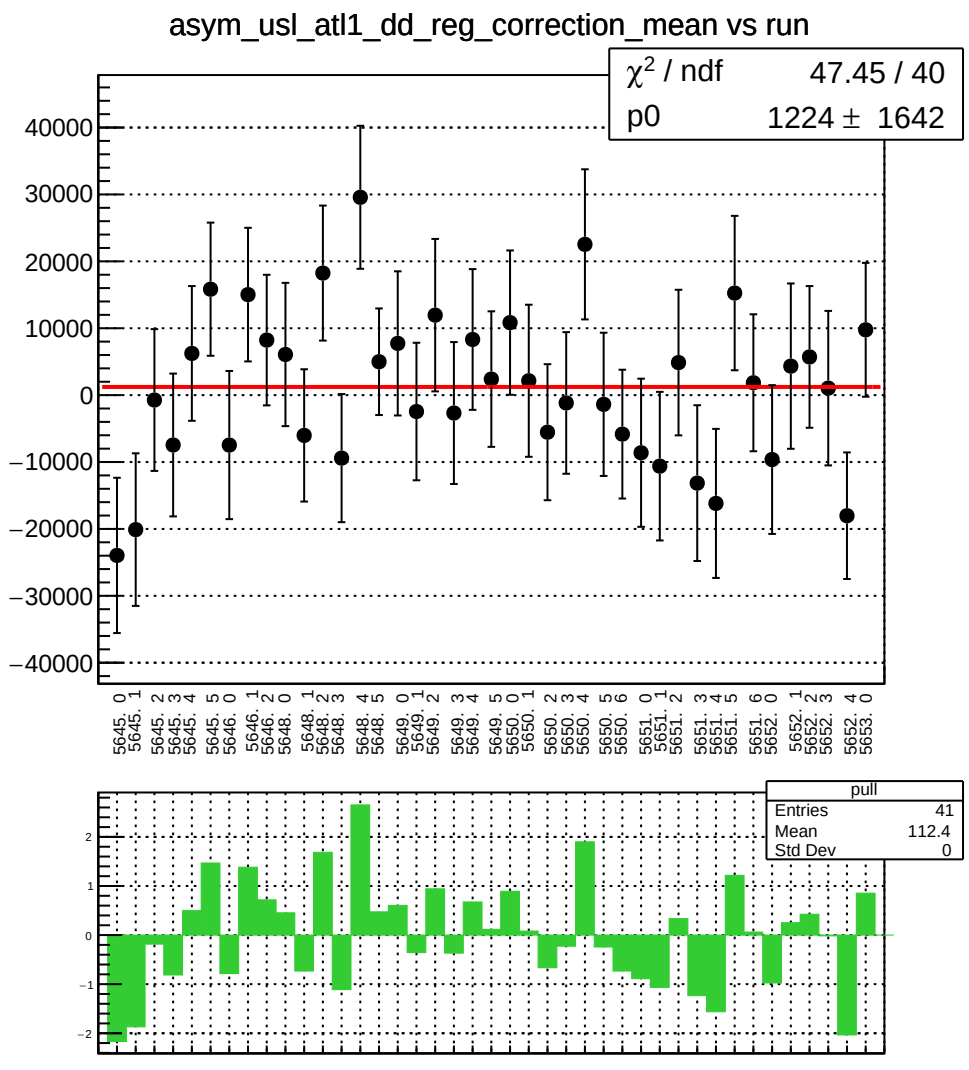

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.41 / 40
p0 −6.12e−14 ± 6.935e−14
pull
Entries 41
Mean 40.51
Std Dev 0
pull1D
Entries 41
Mean −0.0738
Std Dev 0.8721

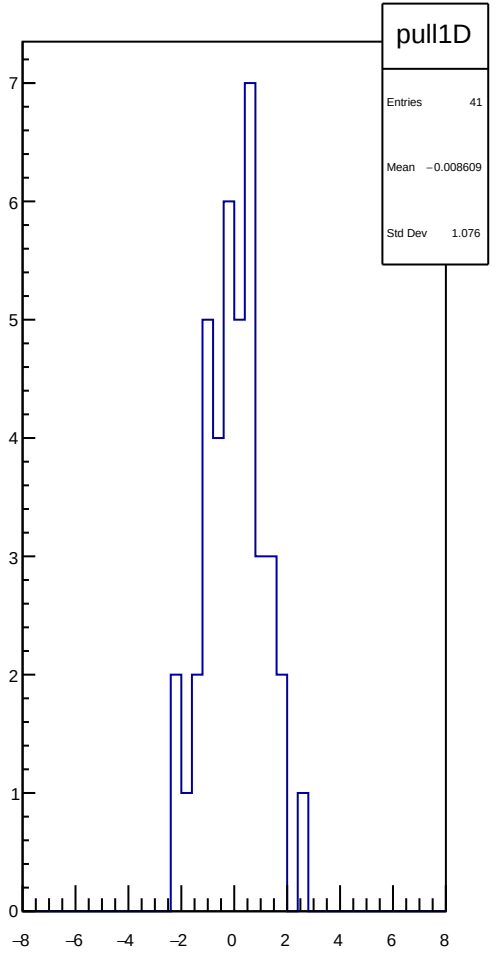

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.201e+05 / 40
p0 3.363e−11 ± 4.903e−14
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

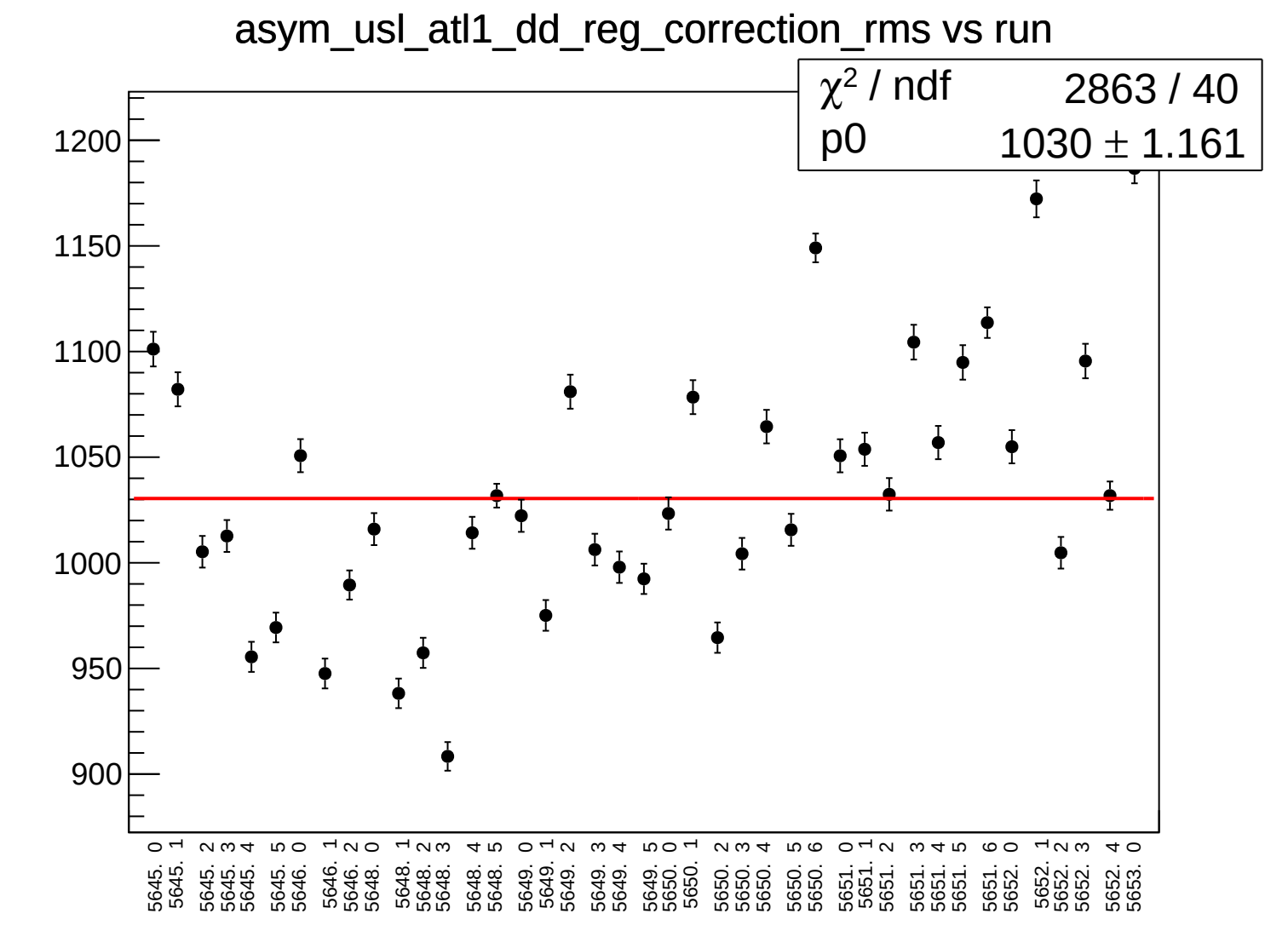

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.11 / 40
p0 2221 ± 2670
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 323.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

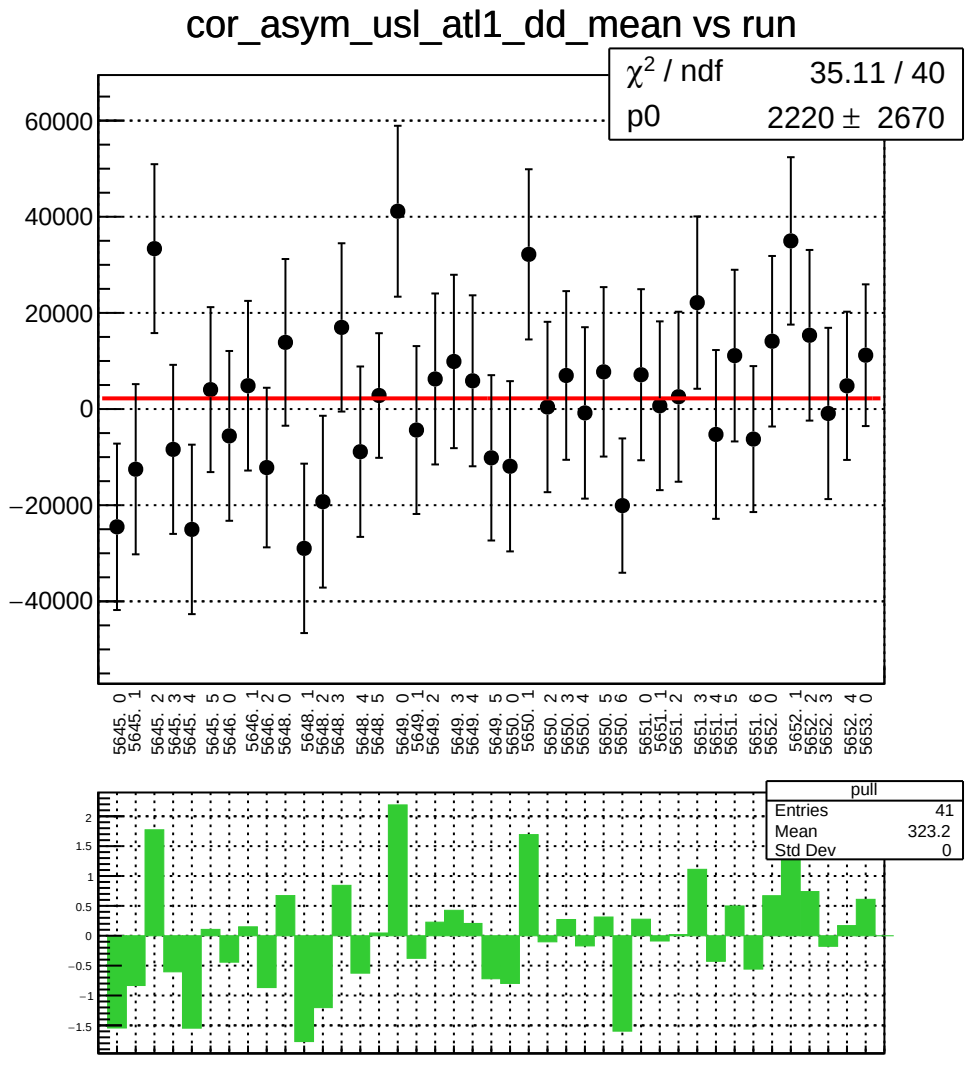

pull1D
Entries 41
Mean 0.01094
Std Dev 0.9254
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

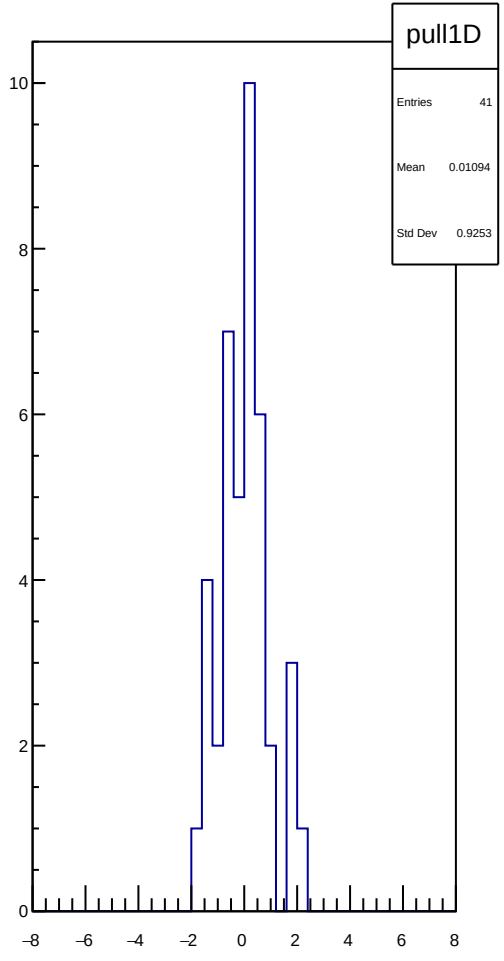

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 102.9 / 40
p0 1678 ± 1.888
1760
1740
1720
1700
1680
1660
1640
1620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

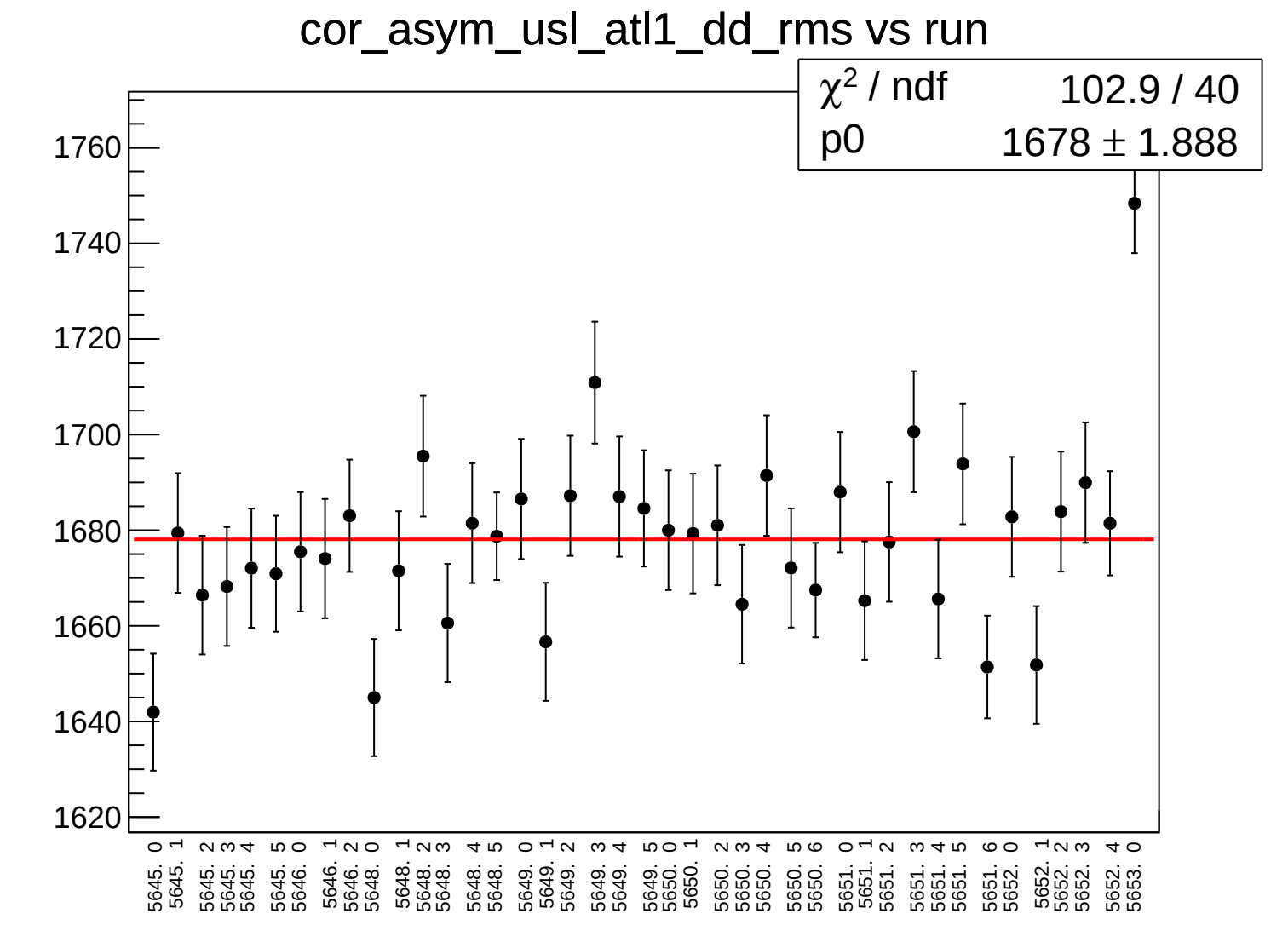

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 47.45 / 40
p0 1224 ± 1642
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 112.4
Std Dev 0
2
1
0
−1
−2

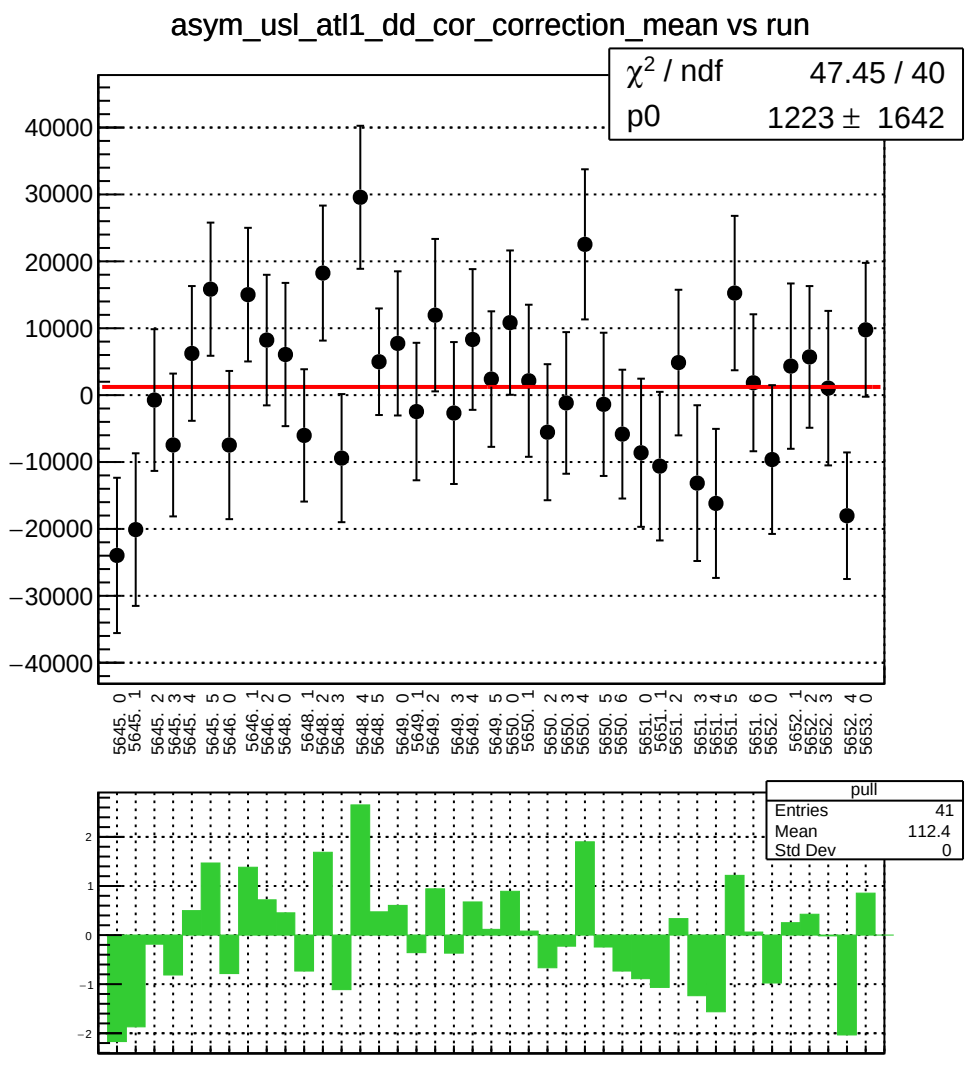

pull1D
Entries 41
Mean −0.008609
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

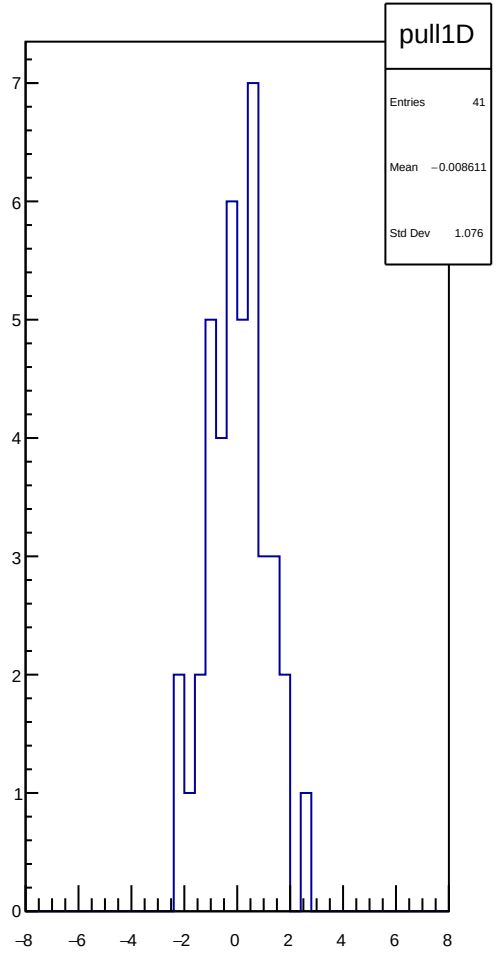

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2863 / 40
p0 1030 ± 1.161
1200
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

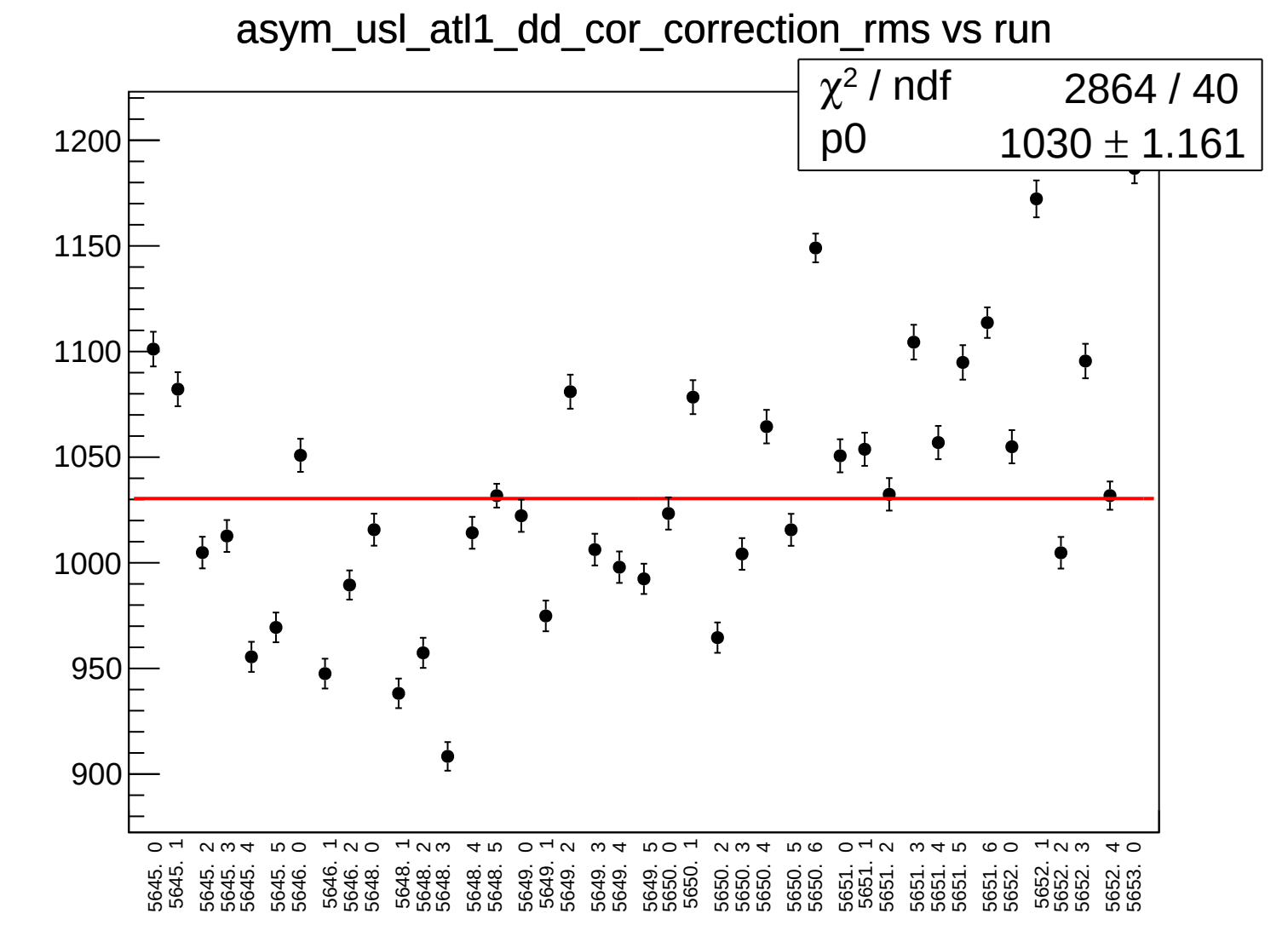

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.11 / 40
p0 2220 ± 2670
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 323.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

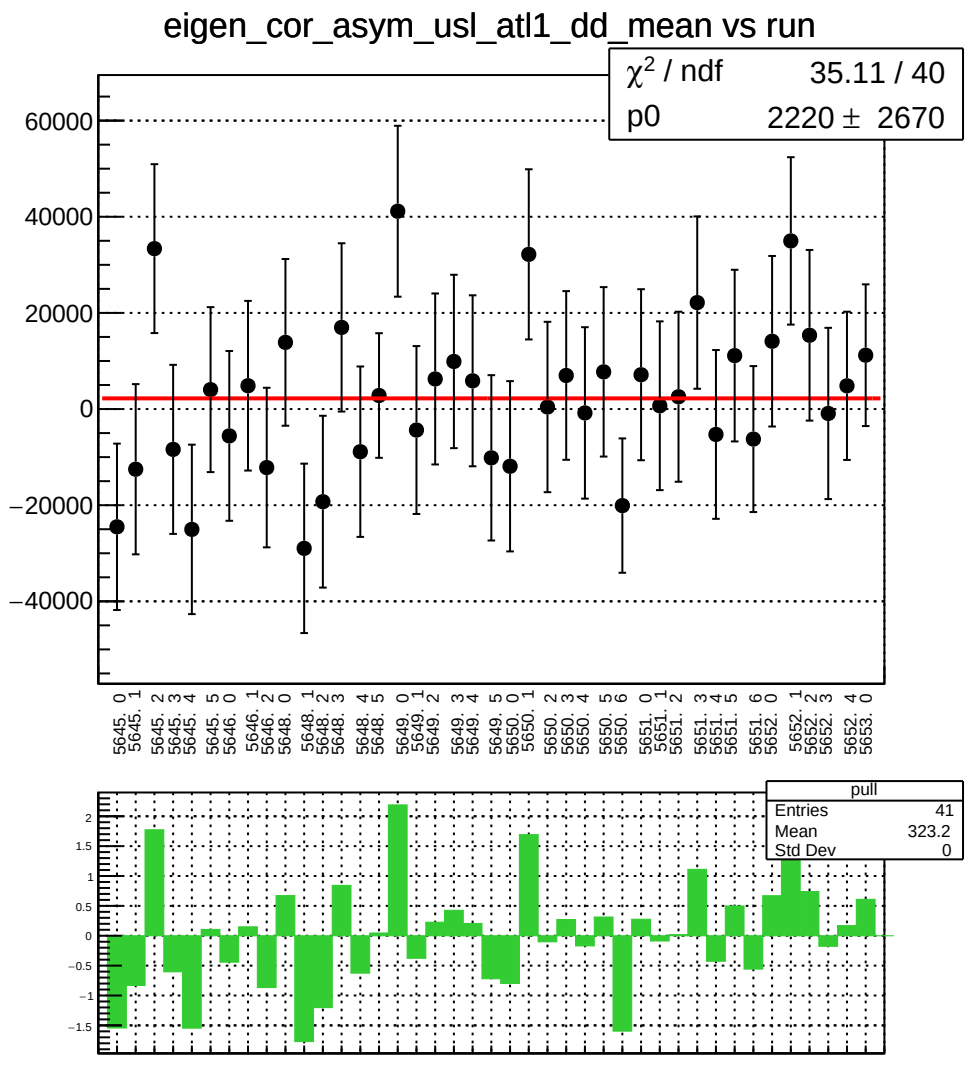

pull1D
Entries 41
Mean 0.01094
Std Dev 0.9253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

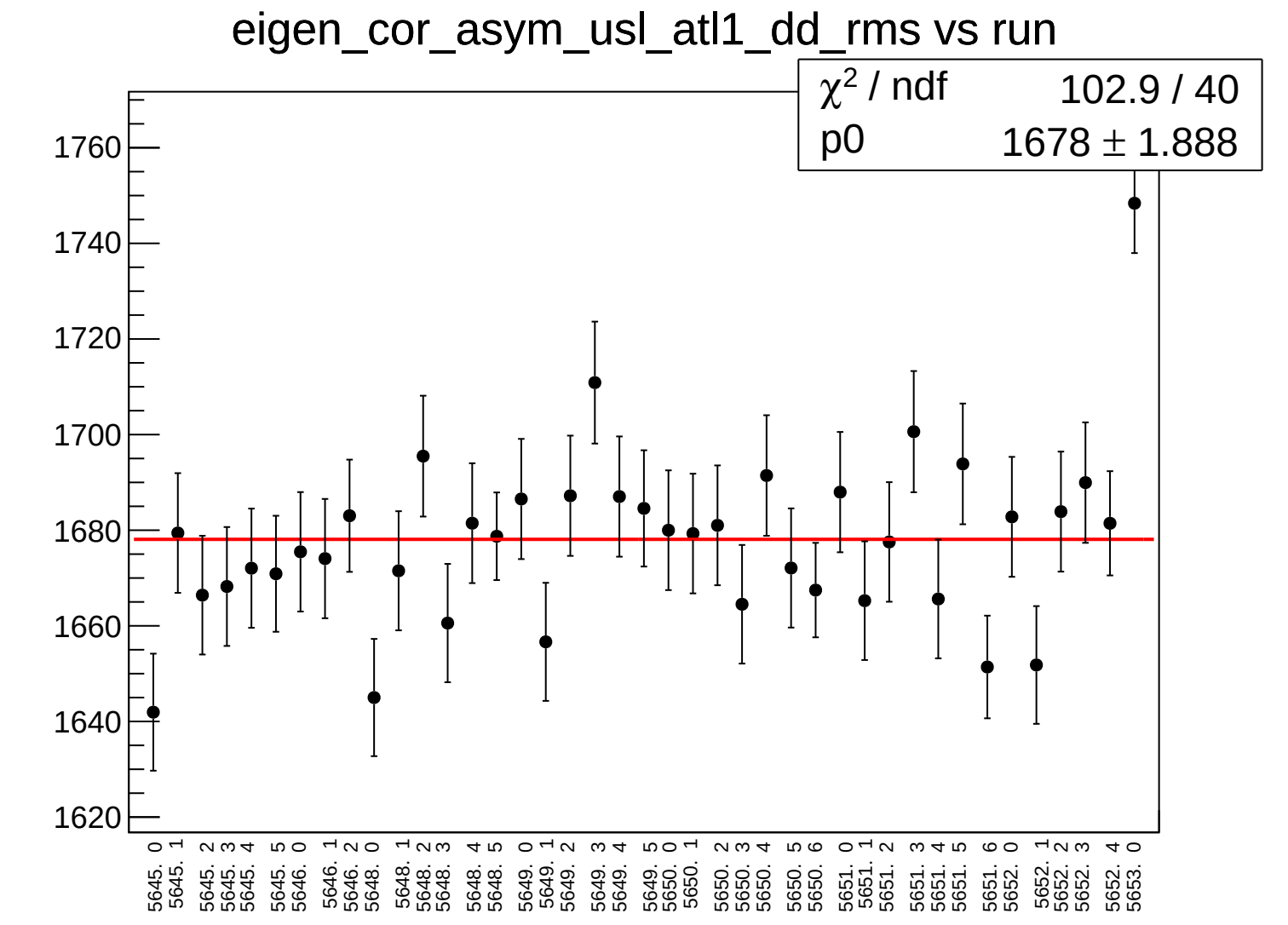

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 102.9 / 40
p0 1678 ± 1.888
1760
1740
1720
1700
1680
1660
1640
1620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

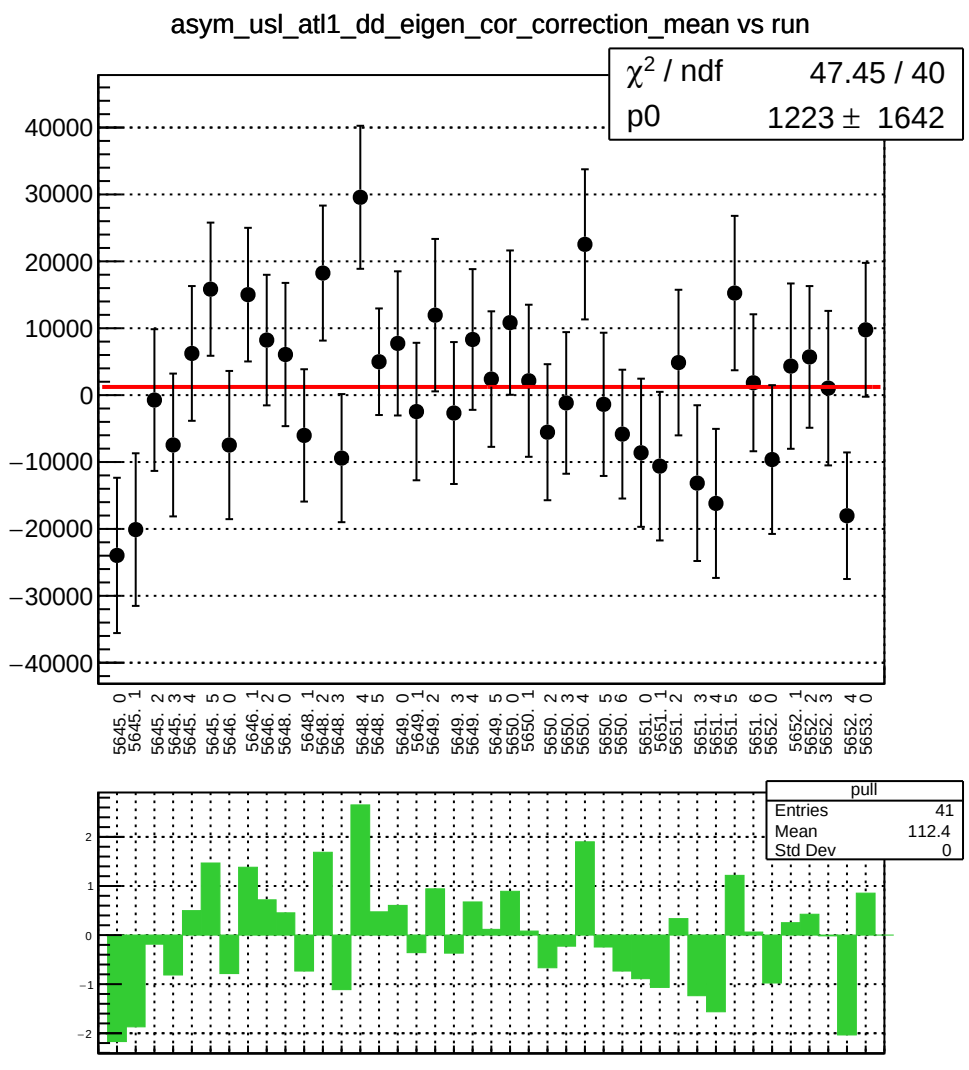

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 47.45 / 40
p0 1223 ± 1642
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 112.4
Std Dev 0
2
1
0
−1
−2

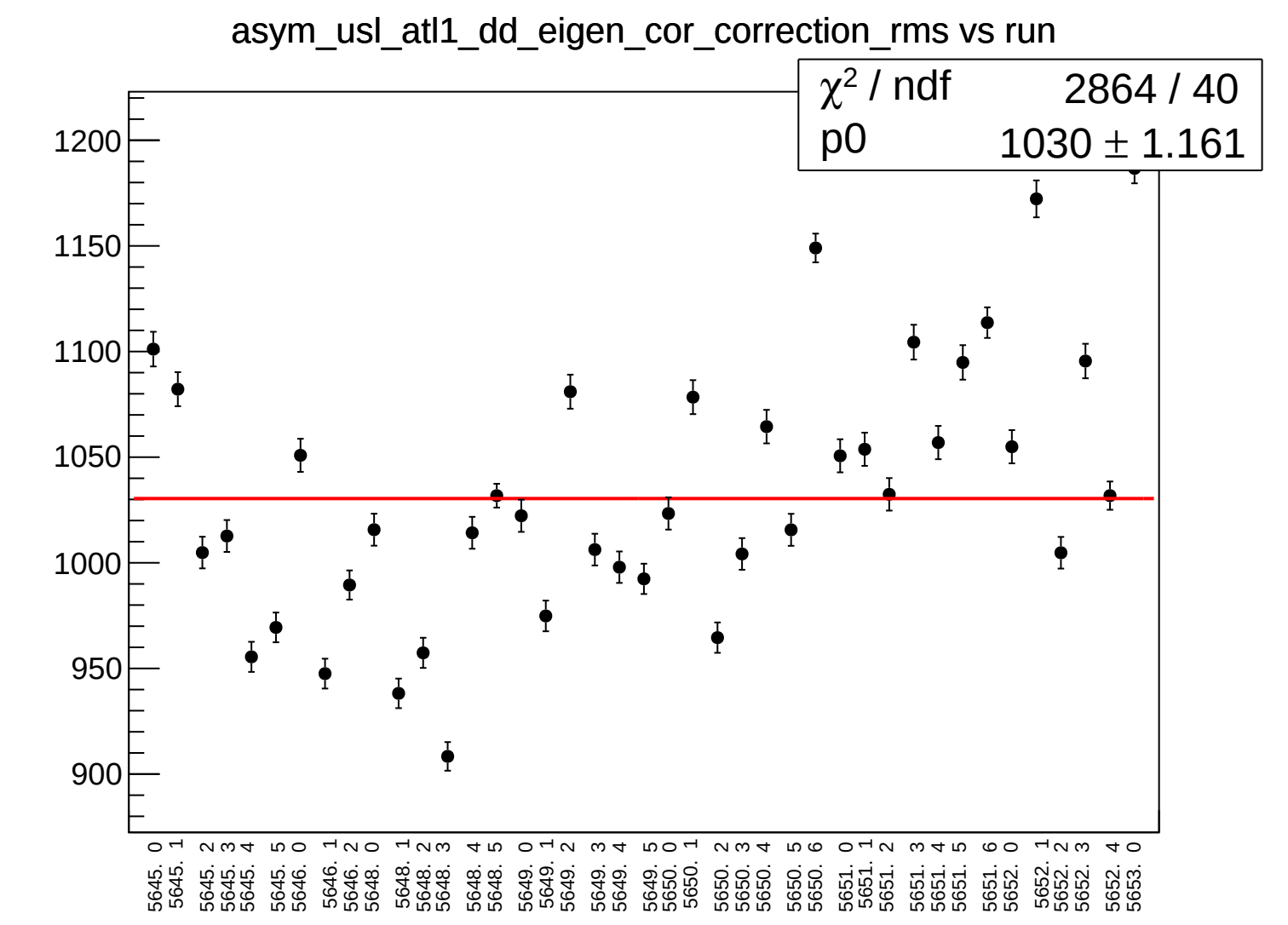

pull1D
Entries 41
Mean −0.008611
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

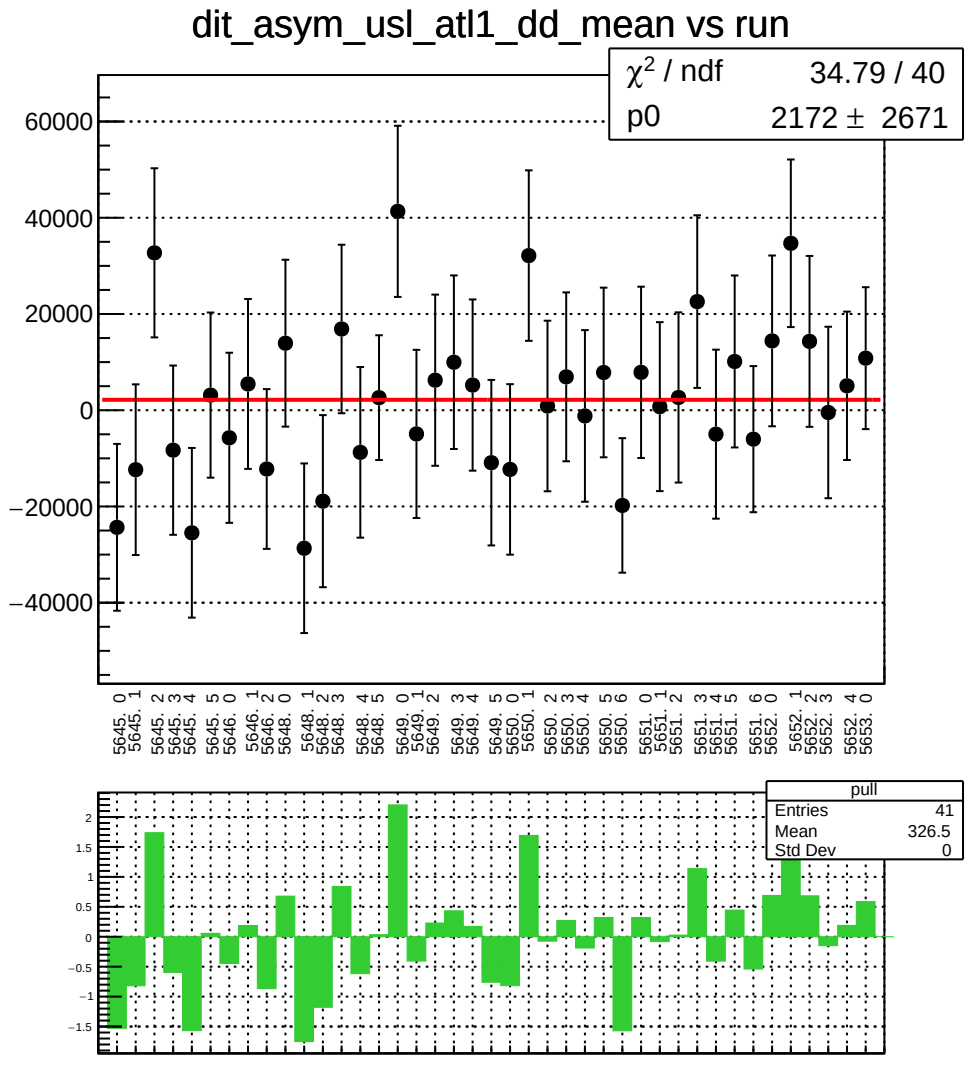

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2864 / 40
p0 1030 ± 1.161
1200
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

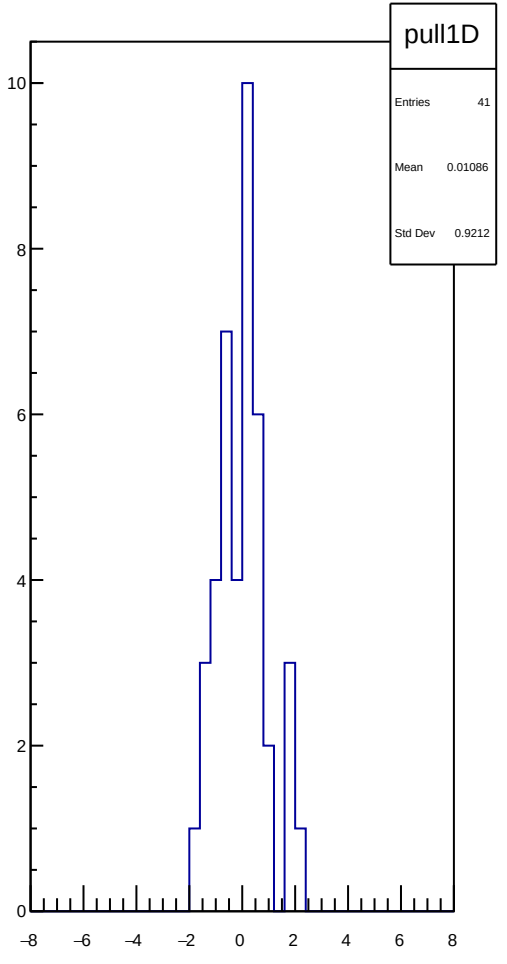

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 35.11 / 40
p0 2220 ± 2670
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 323.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01094
Std Dev 0.9253
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

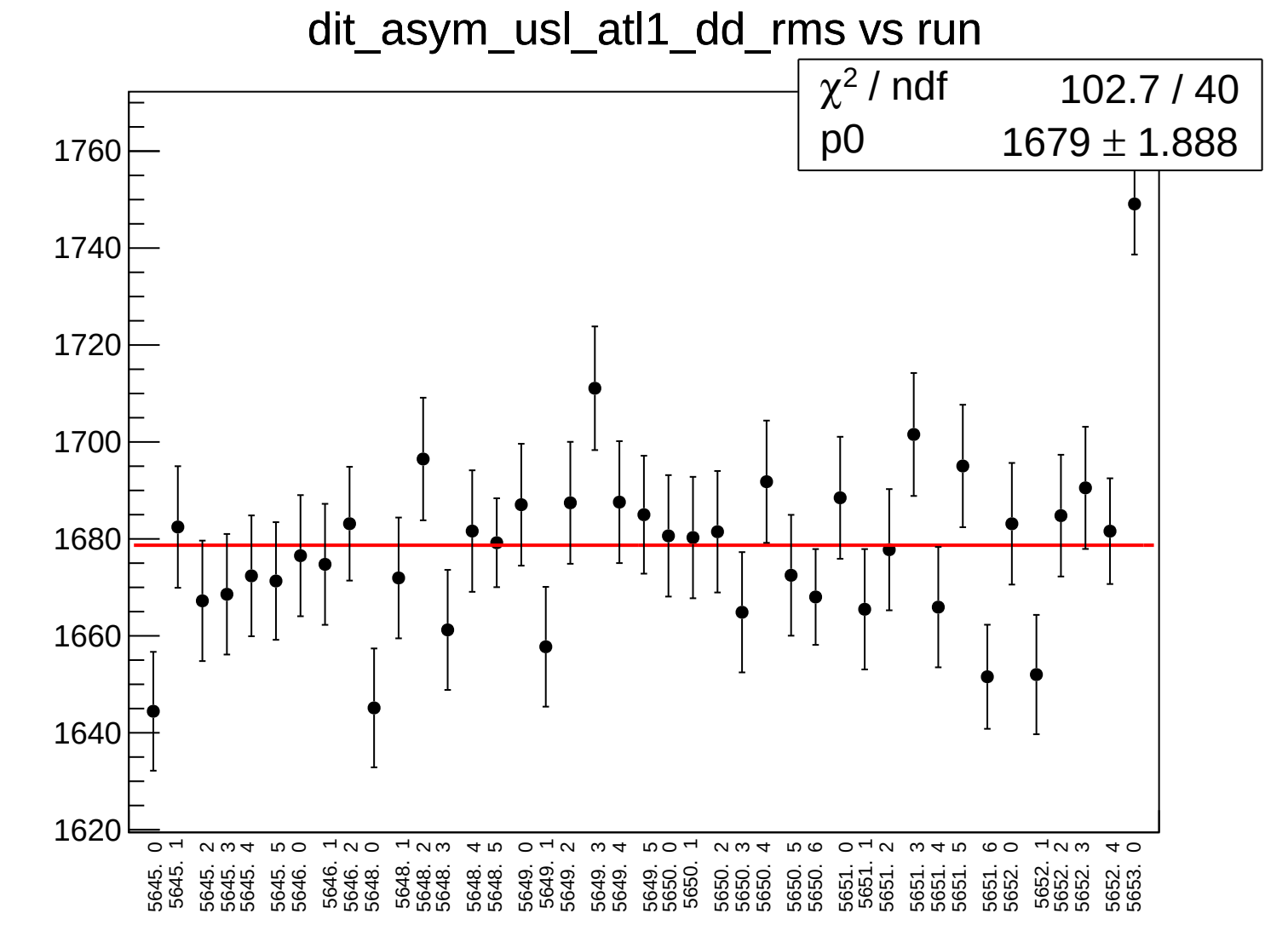

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 102.9 / 40
p0 1678 ± 1.888
1760
1740
1720
1700
1680
1660
1640
1620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

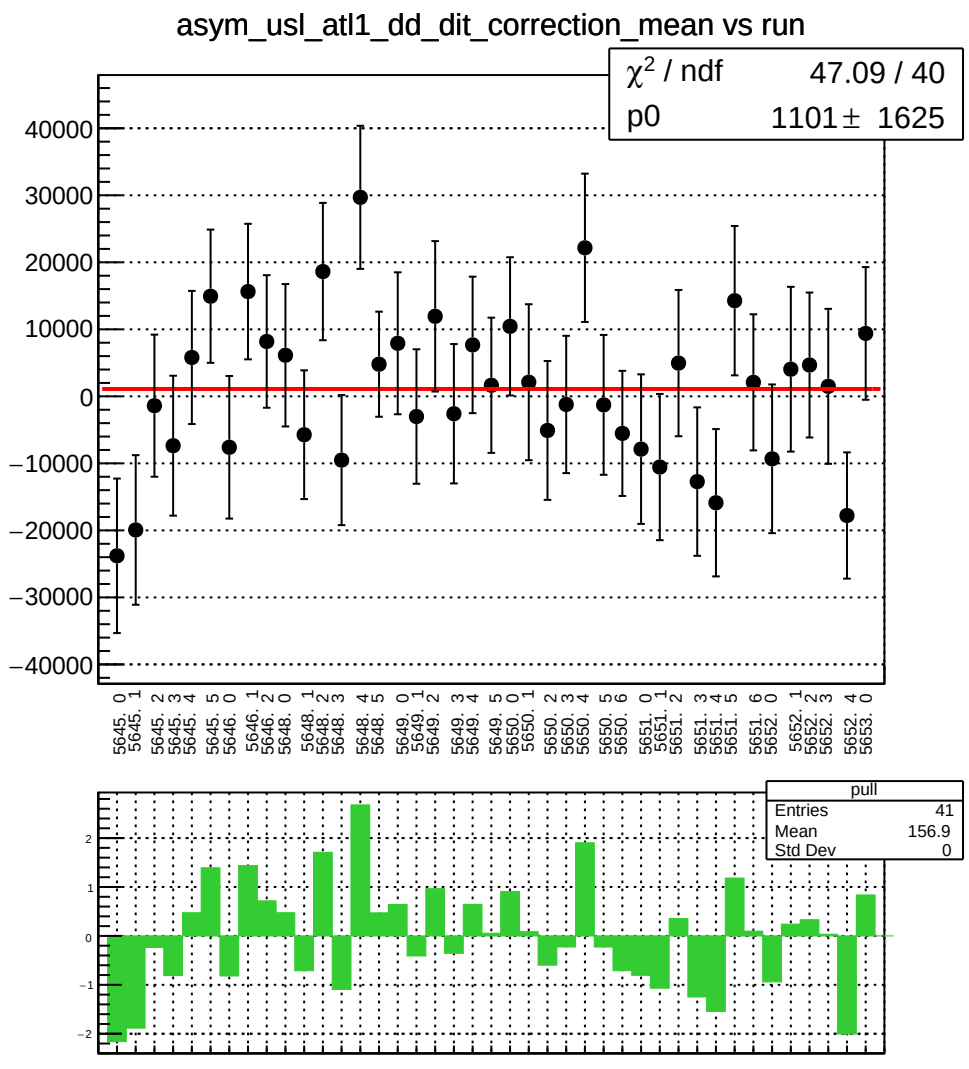

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 47.45 / 40
p0 1223 ± 1642
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 112.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.008611
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

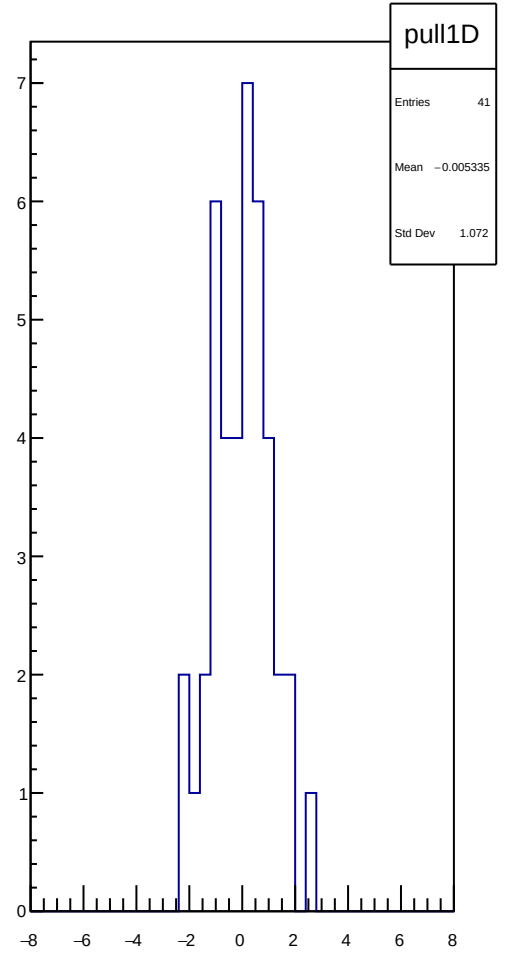

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2864 / 40
p0 1030 ± 1.161
1200
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

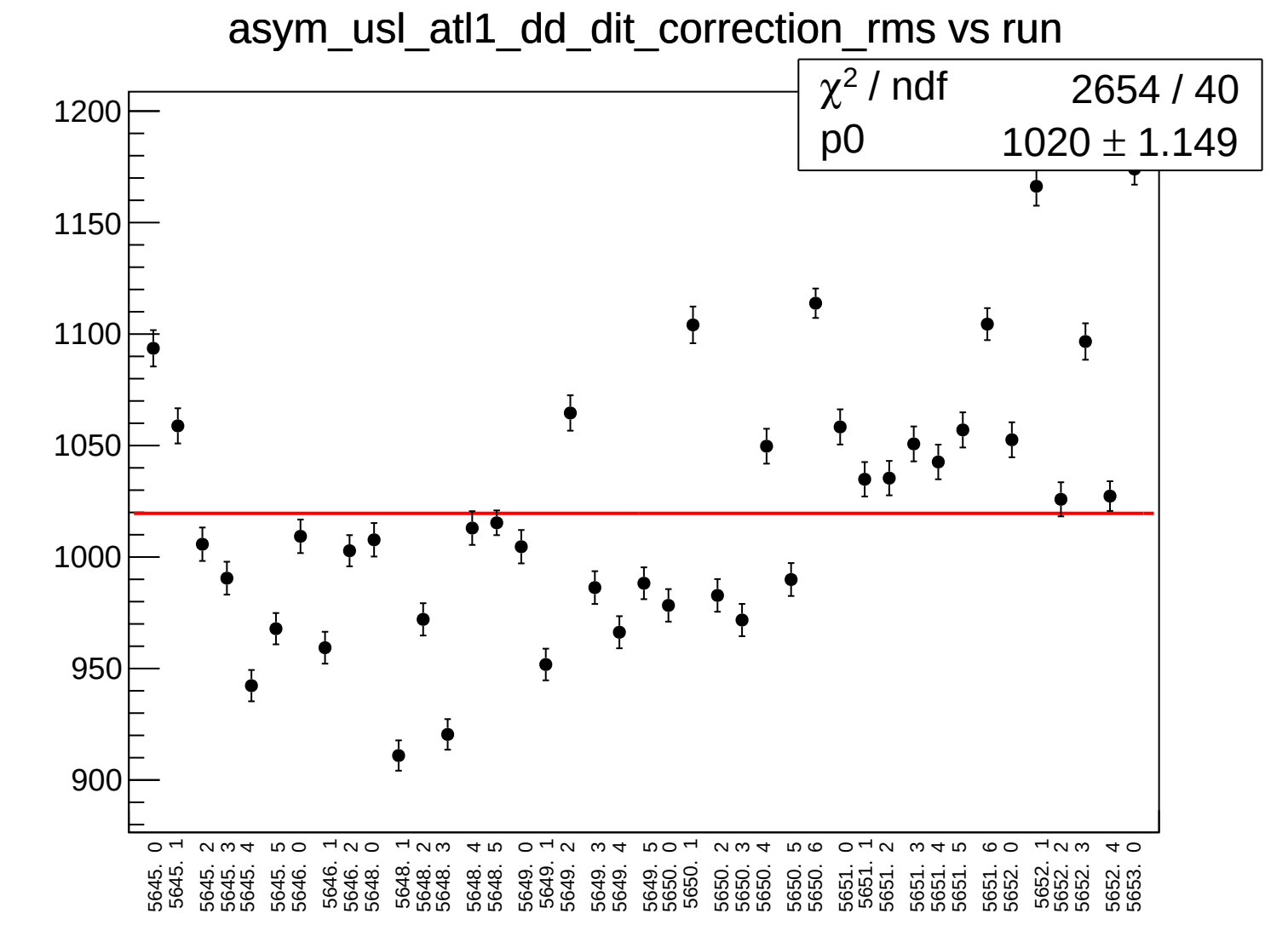

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 34.79 / 40
p0 2172 ± 2671
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 326.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

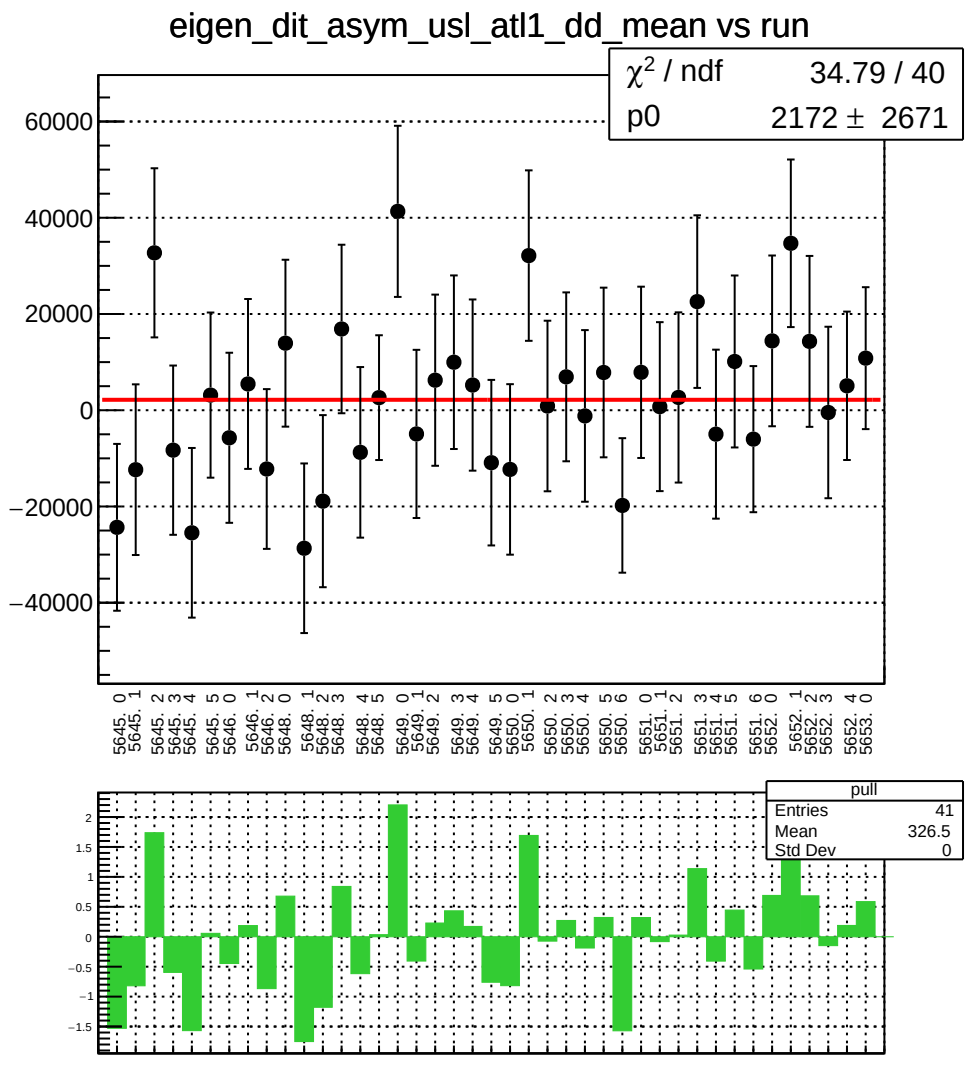

pull1D
Entries 41
Mean 0.01086
Std Dev 0.9212
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

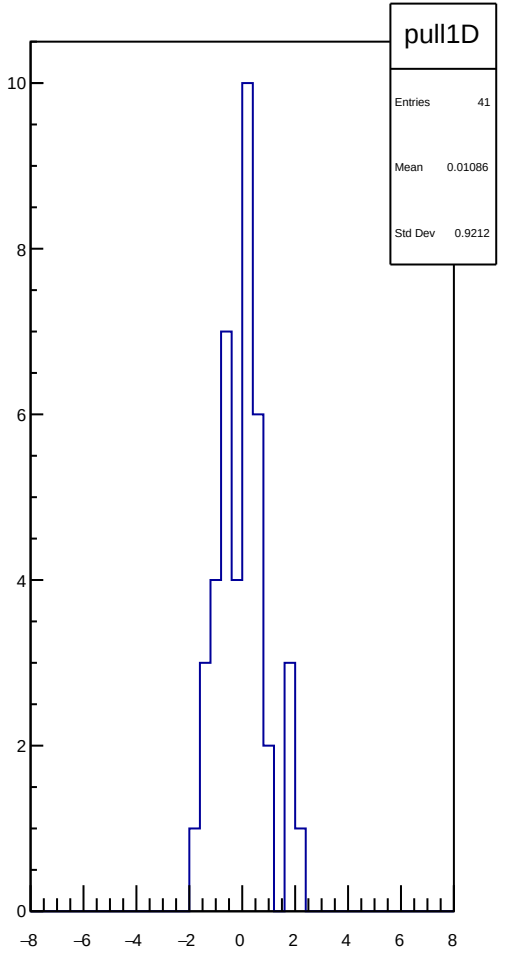

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 102.7 / 40
p0 1679 ± 1.888
1760
1740
1720
1700
1680
1660
1640
1620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

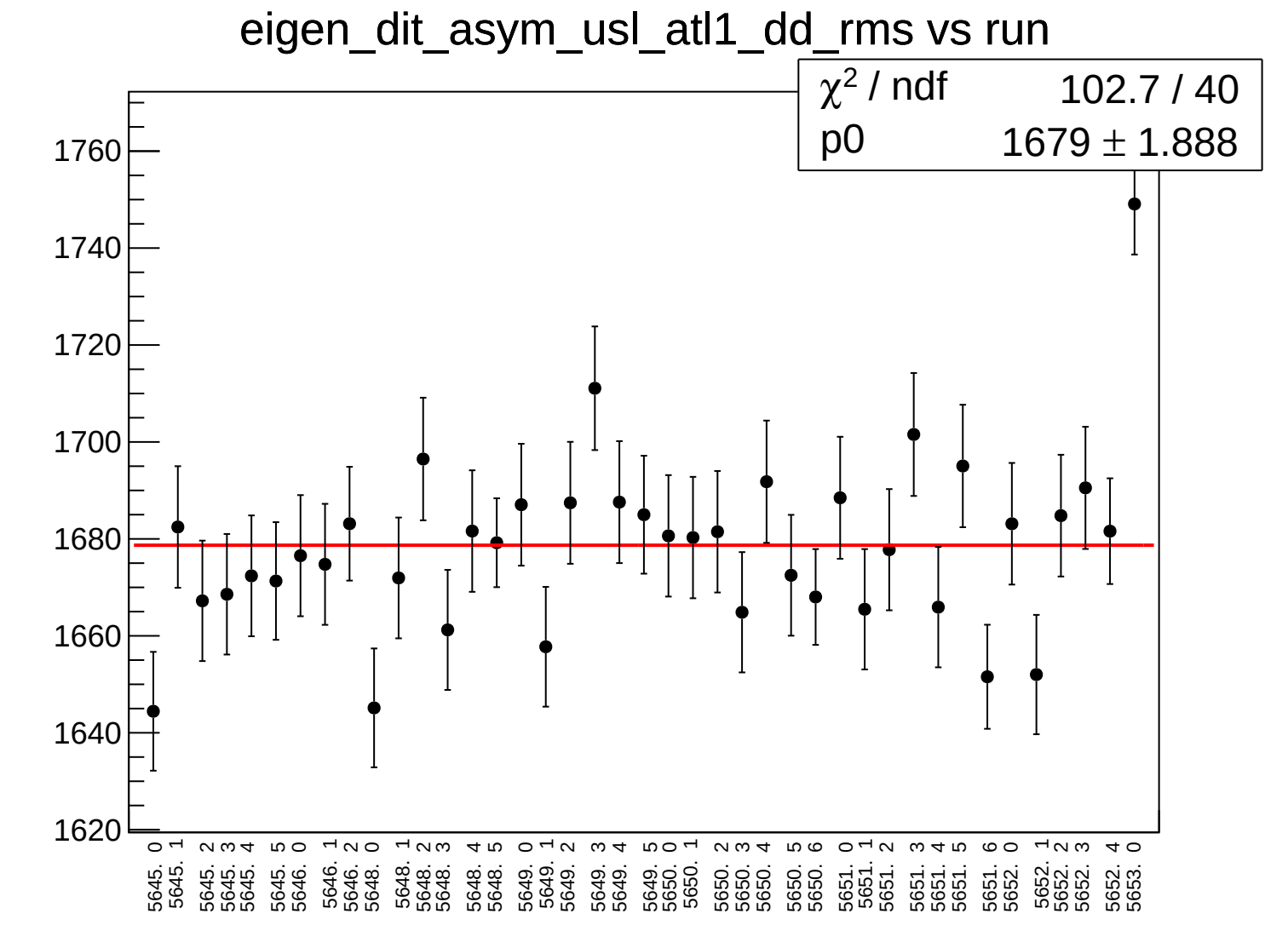

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 47.09 / 40
p0 1101 ± 1625
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 156.9
Std Dev 0
2
1
0
−1
−2

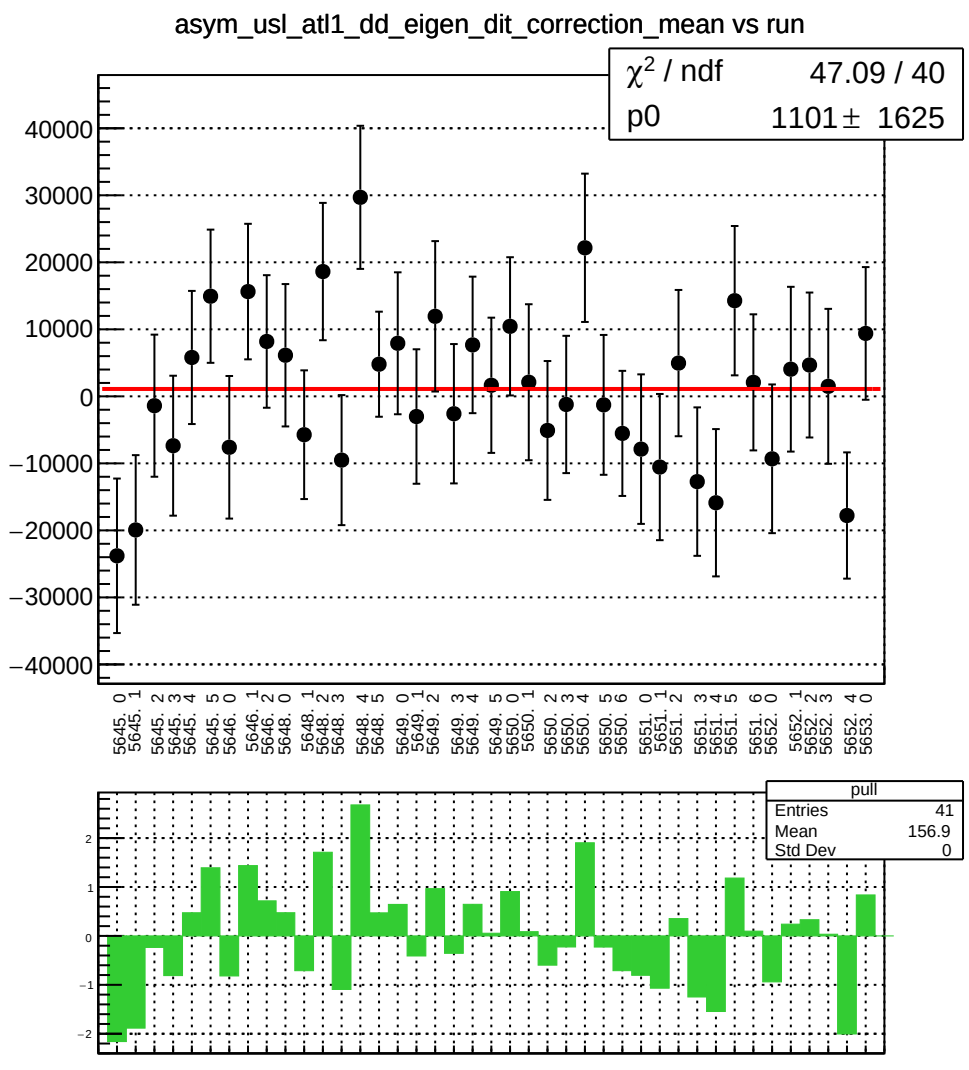

pull1D
Entries 41
Mean −0.005335
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

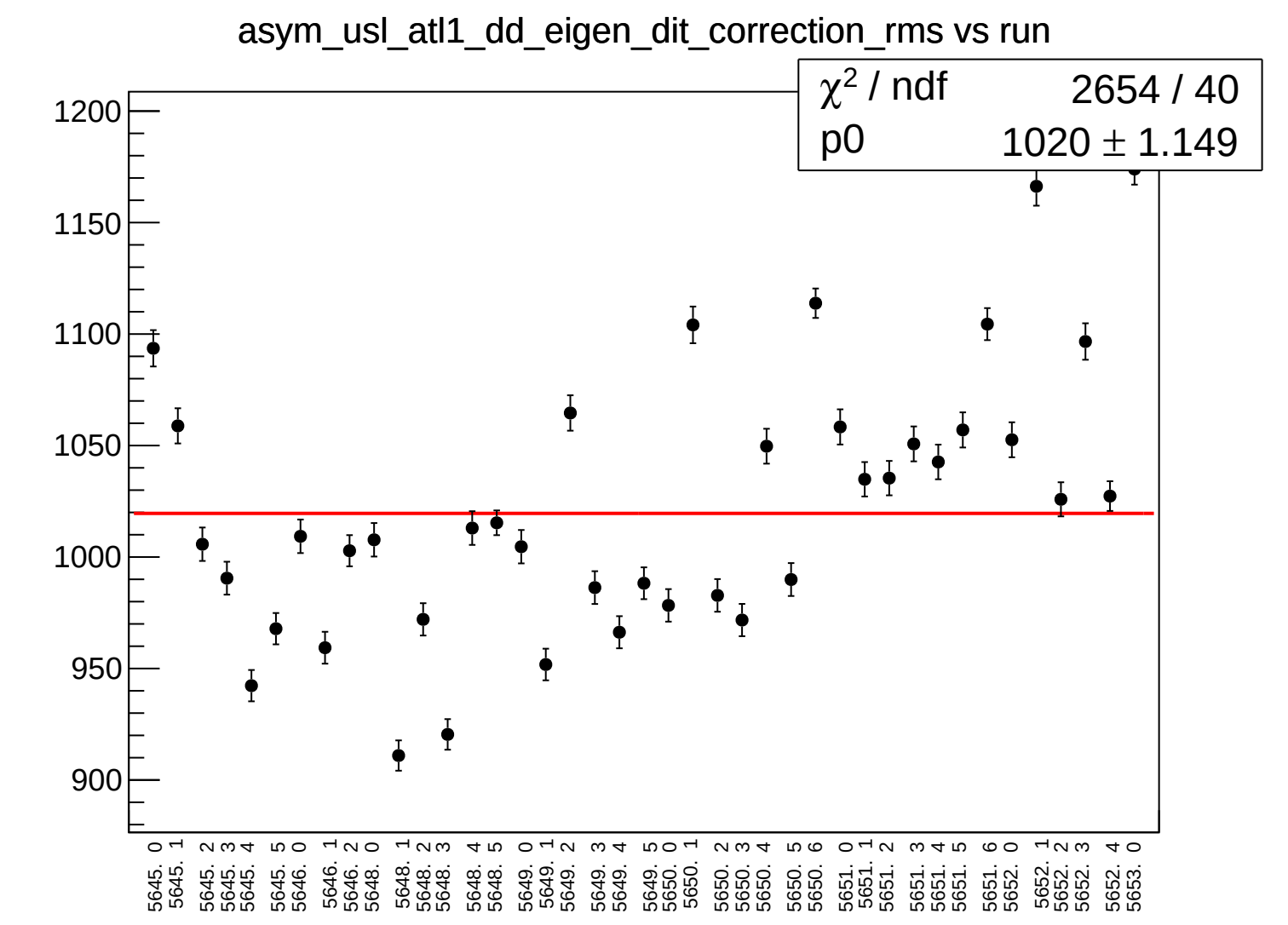

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 2654 / 40
p0 1020 ± 1.149
1200
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

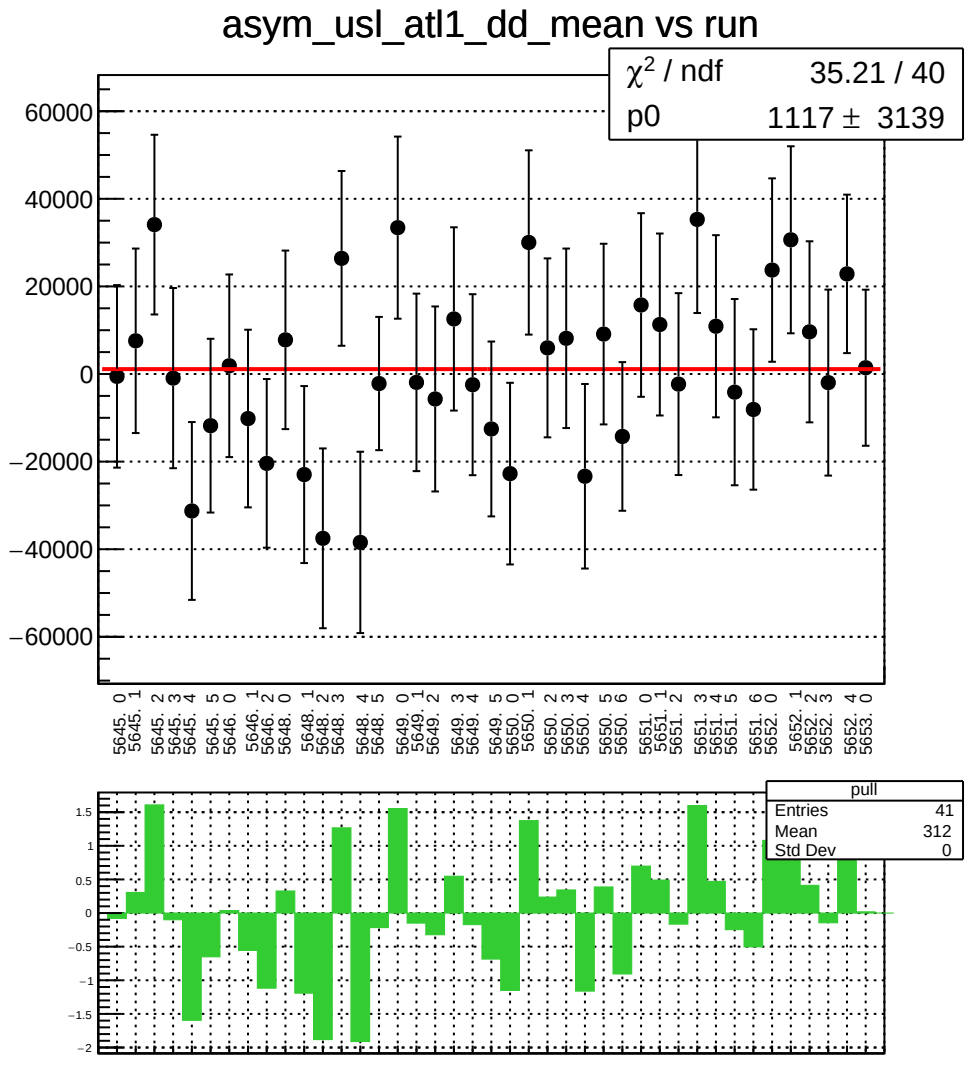

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 34.79 / 40
p0 2172 ± 2671
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 326.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

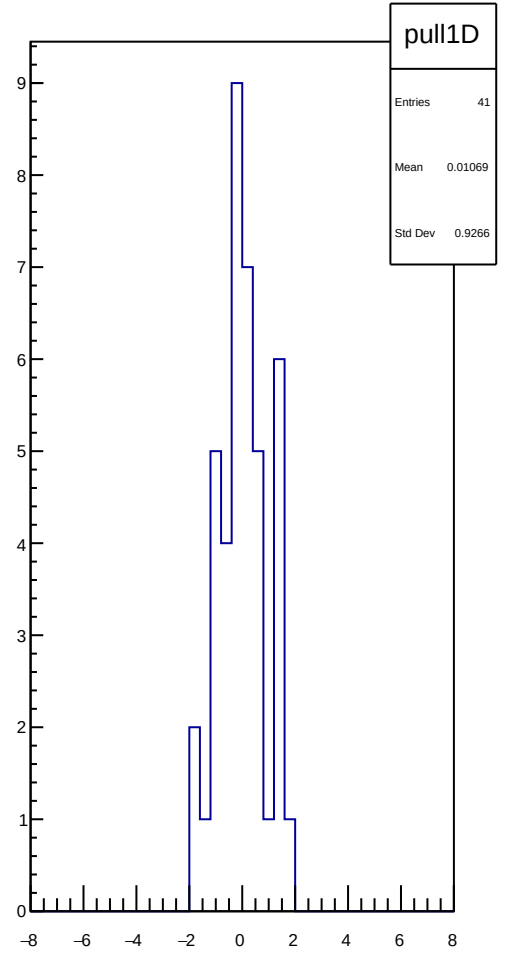

pull1D
Entries 41
Mean 0.01086
Std Dev 0.9212
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

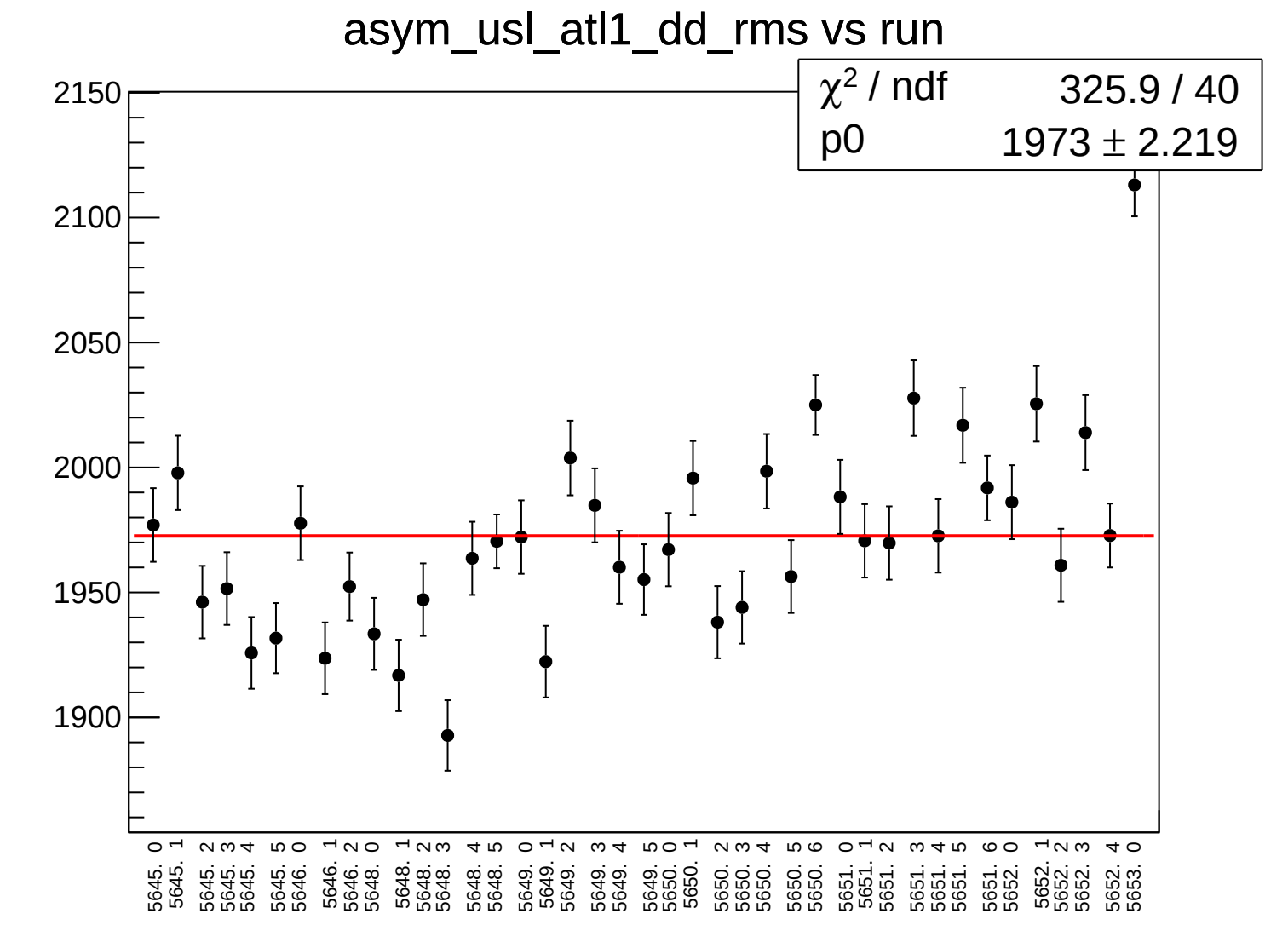

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 102.7 / 40
p0 1679 ± 1.888
1760
1740
1720
1700
1680
1660
1640
1620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

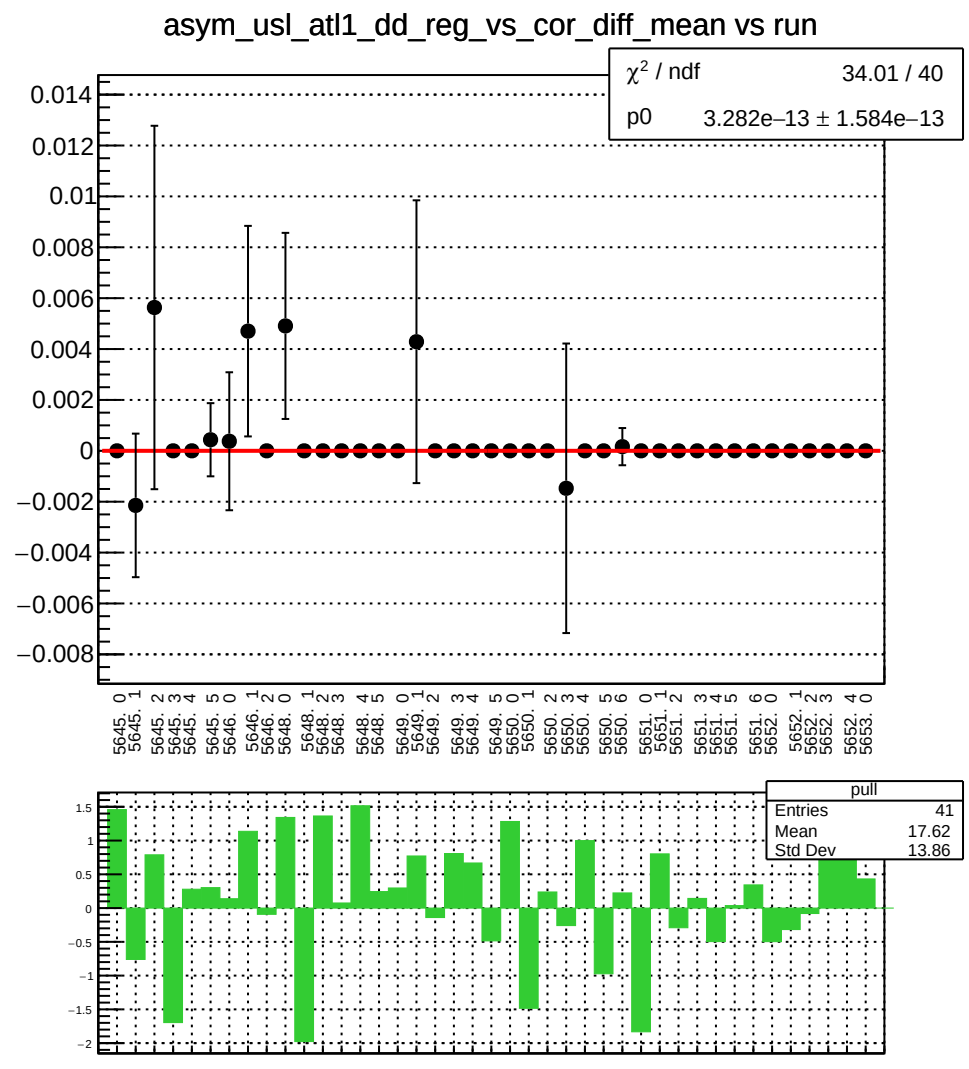

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.09 / 40
p0 1101 ± 1625
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 156.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.005335
Std Dev 1.072
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

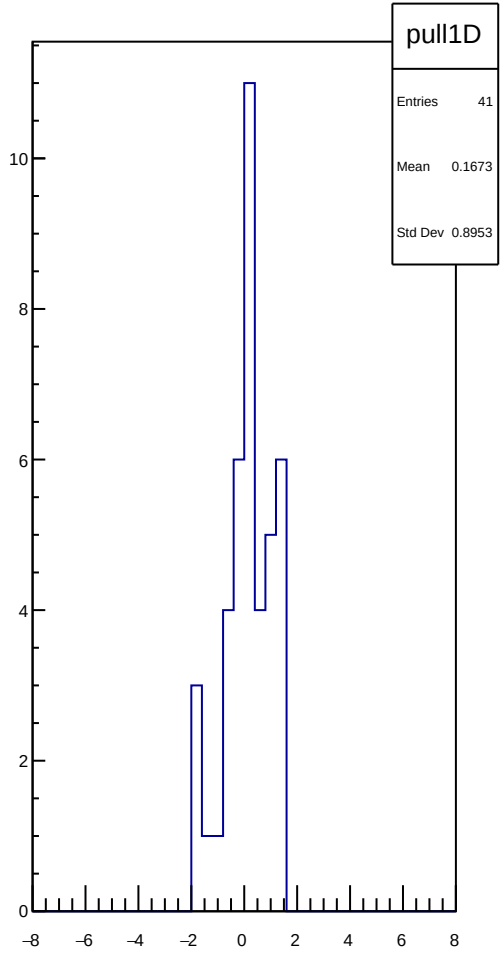

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2654 / 40
p0 1020 ± 1.149
1200
1150
1100
1050
1000
950
900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

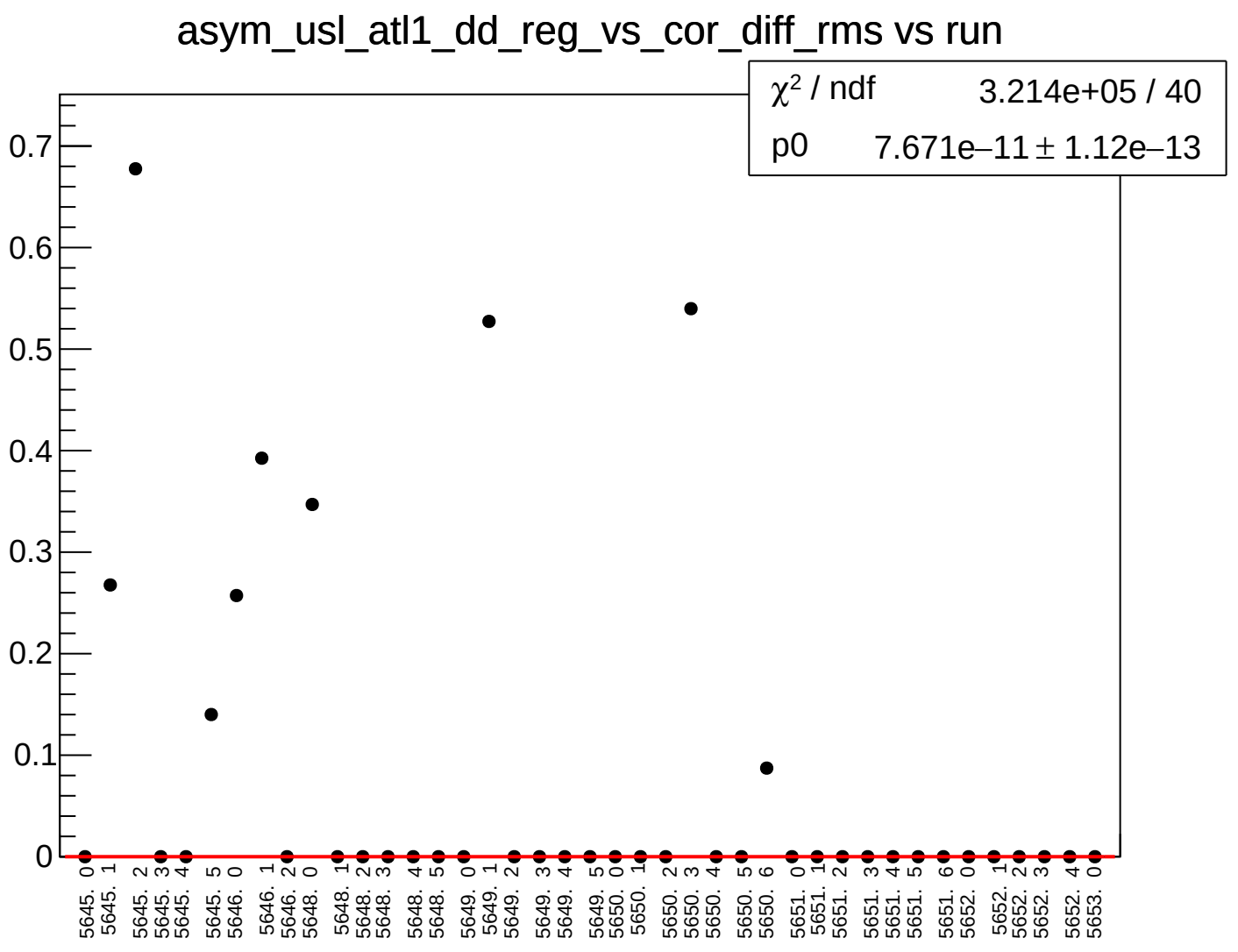

asym_usl_atl1_dd_mean vs run
χ² / ndf 35.21 / 40
p0 1117 ± 3139
pull
Entries 41
Mean 312
Std Dev 0

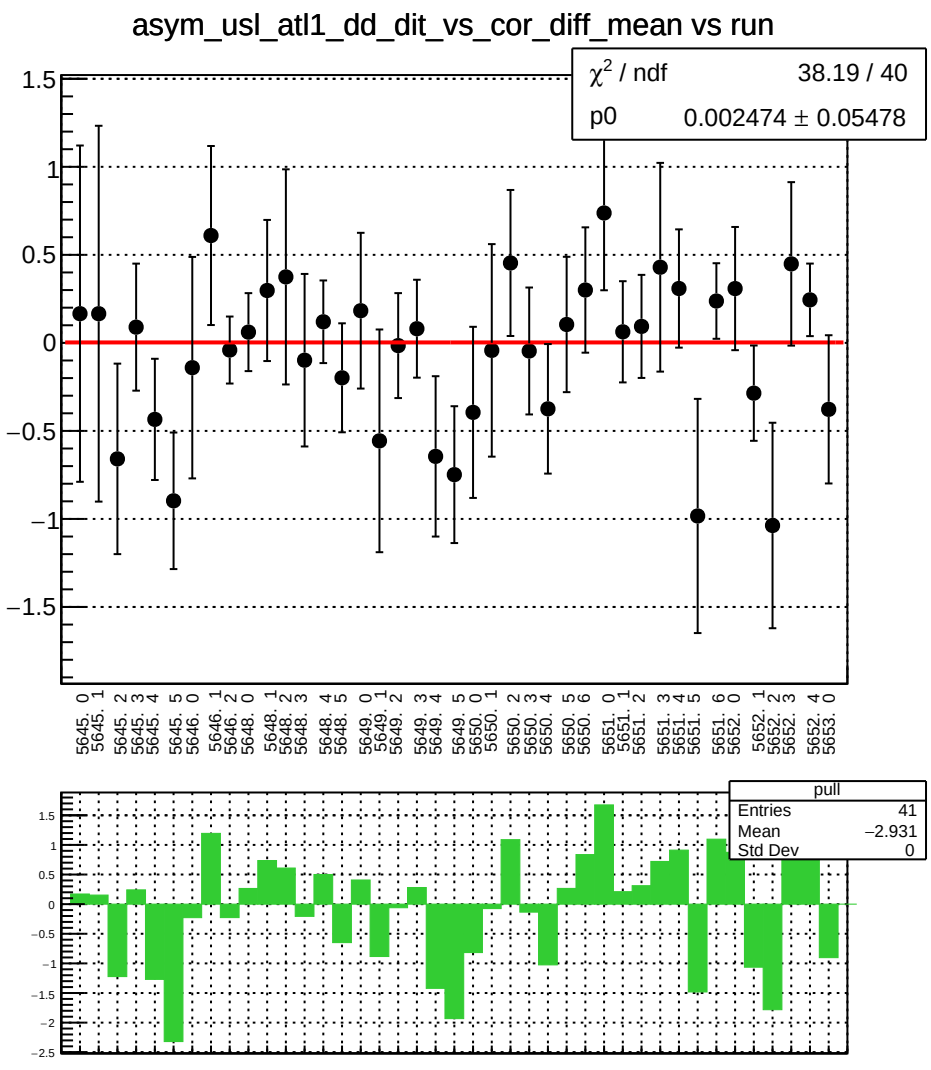

pull1D
Entries 41
Mean 0.01069
Std Dev 0.9266

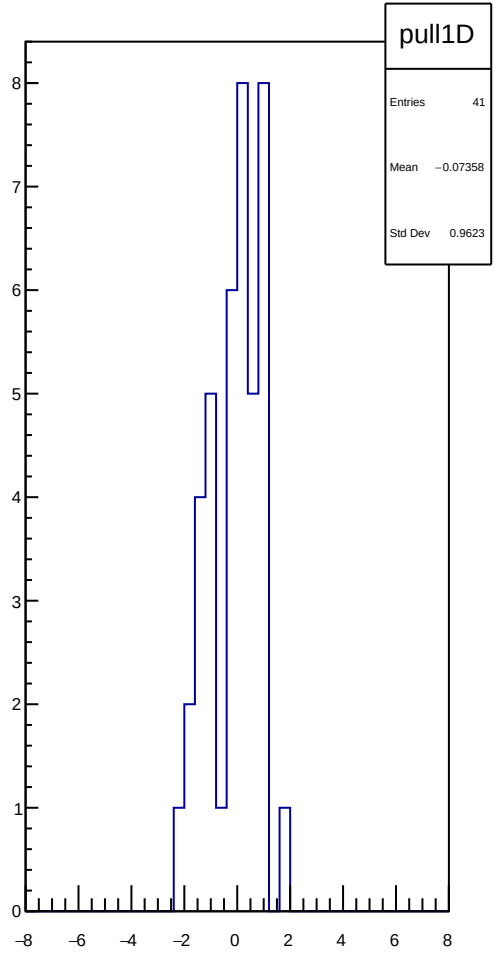

asym_usl_atl1_dd_rms vs run
χ² / ndf 325.9 / 40
p0 1973 ± 2.219
2150
2100
2050
2000
1950
1900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

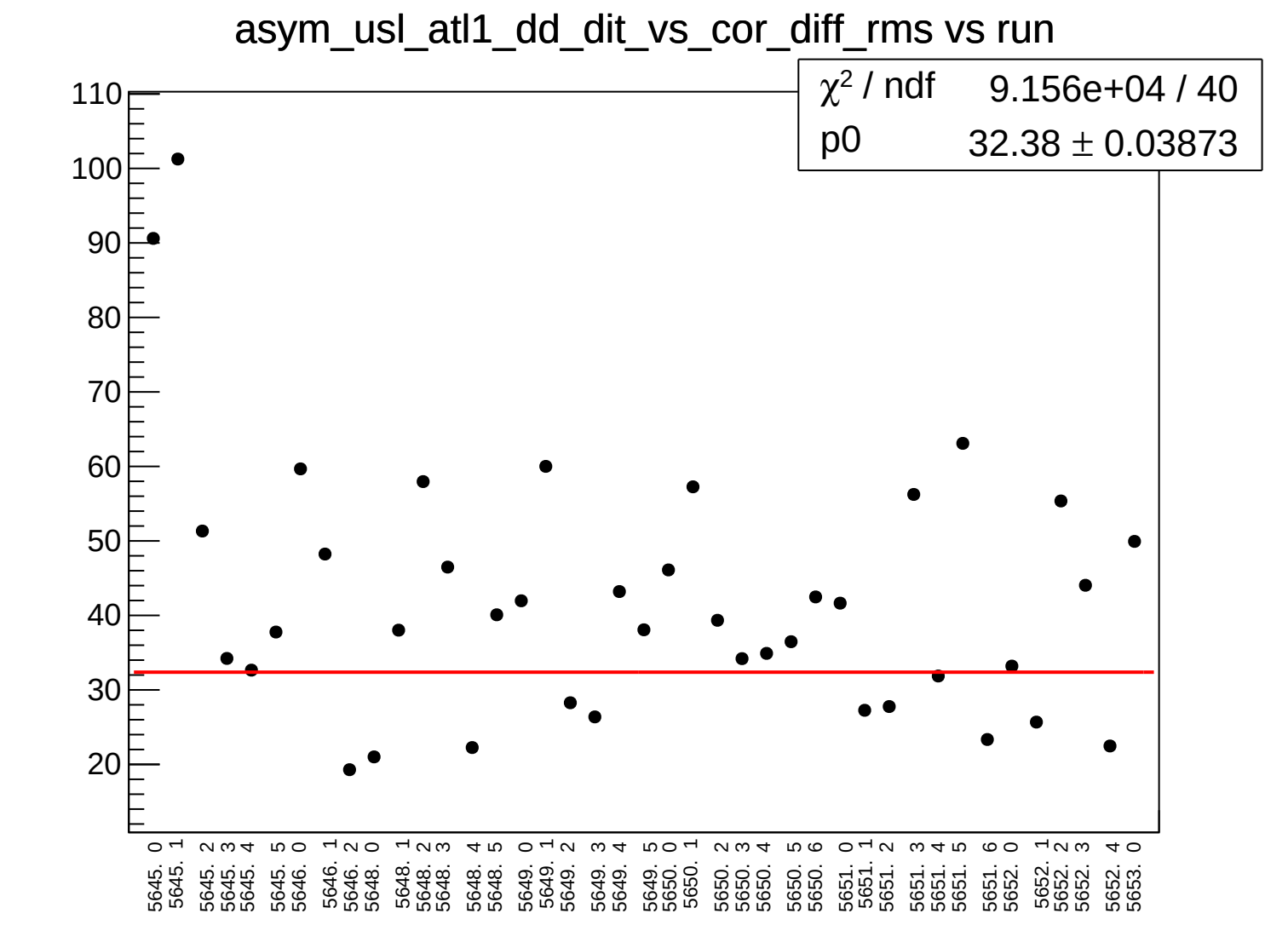

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 34.01 / 40
p0 3.282e−13 ± 1.584e−13
pull
Entries 41
Mean 17.62
Std Dev 13.86

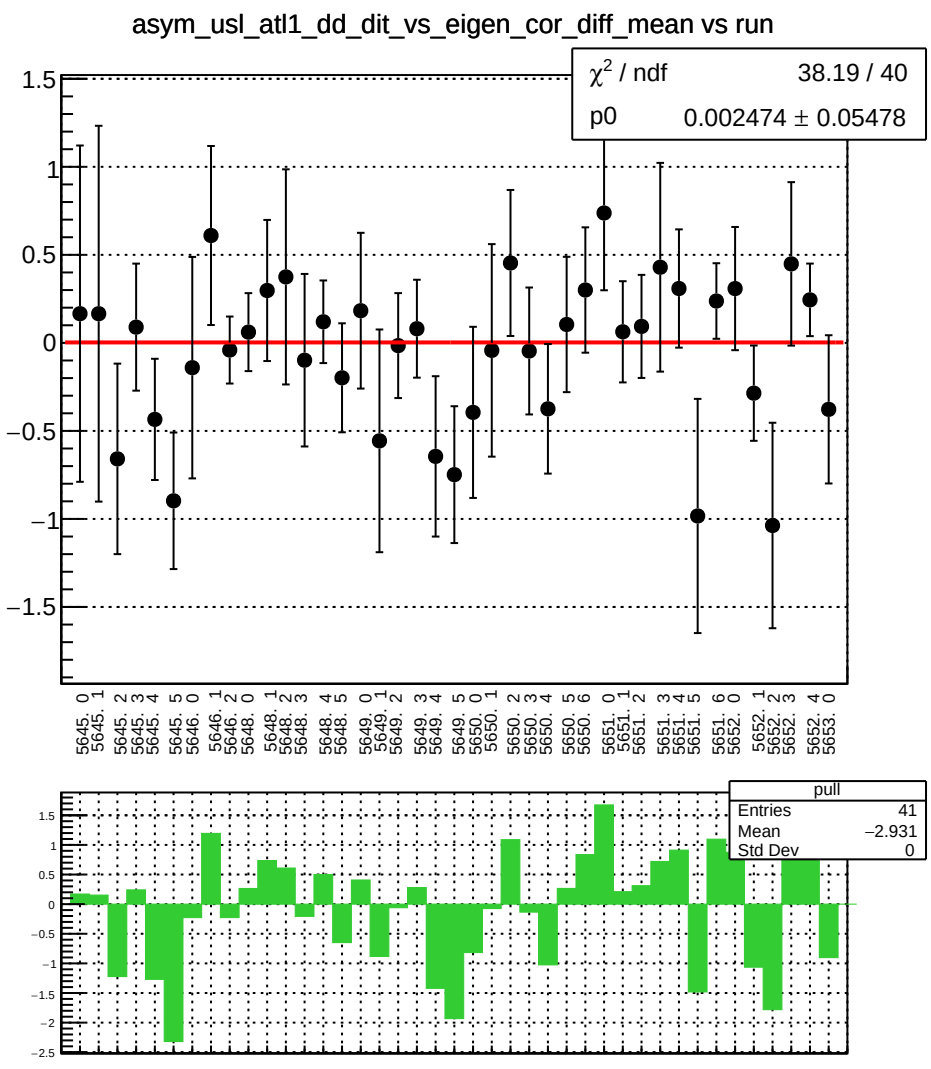

pull1D
Entries 41
Mean 0.1673
Std Dev 0.8953

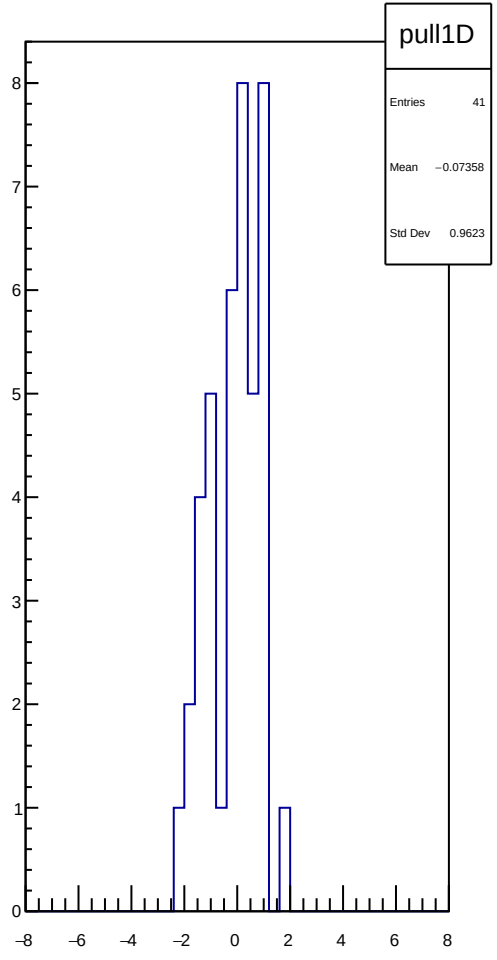

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.214e+05 / 40
p0 7.671e−11 ± 1.12e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

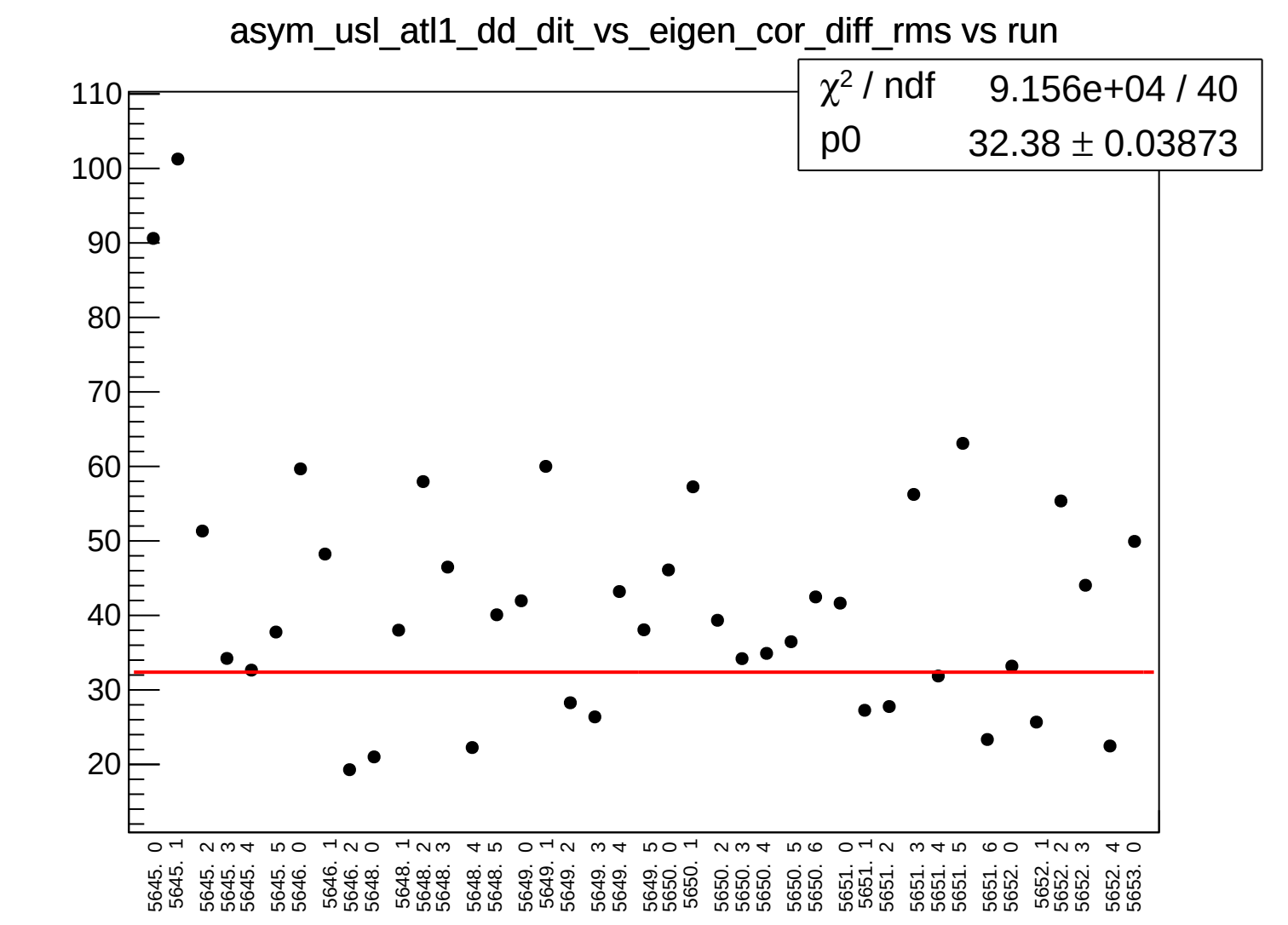

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.19 / 40
p0 0.002474 ± 0.05478
pull
Entries 41
Mean −2.931
Std Dev 0

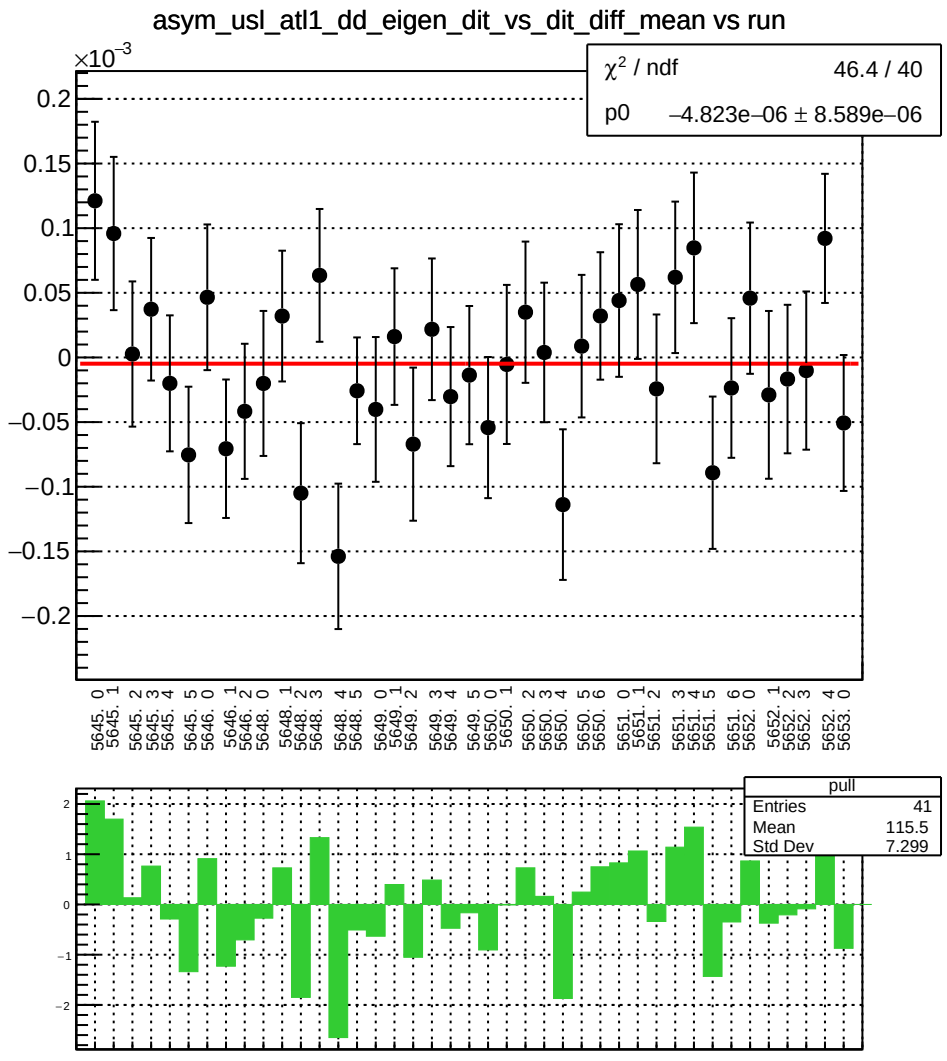

pull1D
Entries 41
Mean −0.07358
Std Dev 0.9623

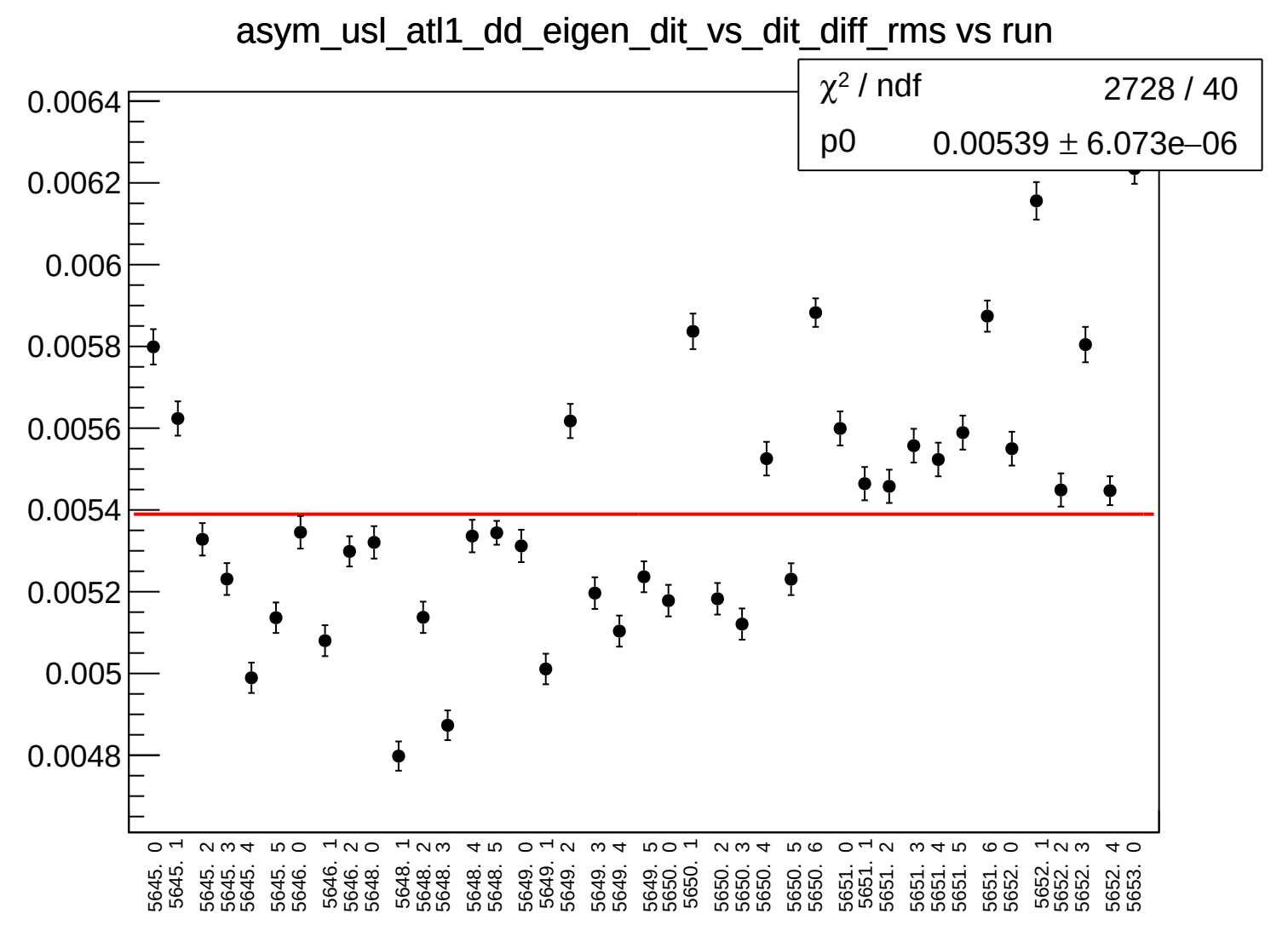

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.156e+04 / 40
p0 32.38 ± 0.03873
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

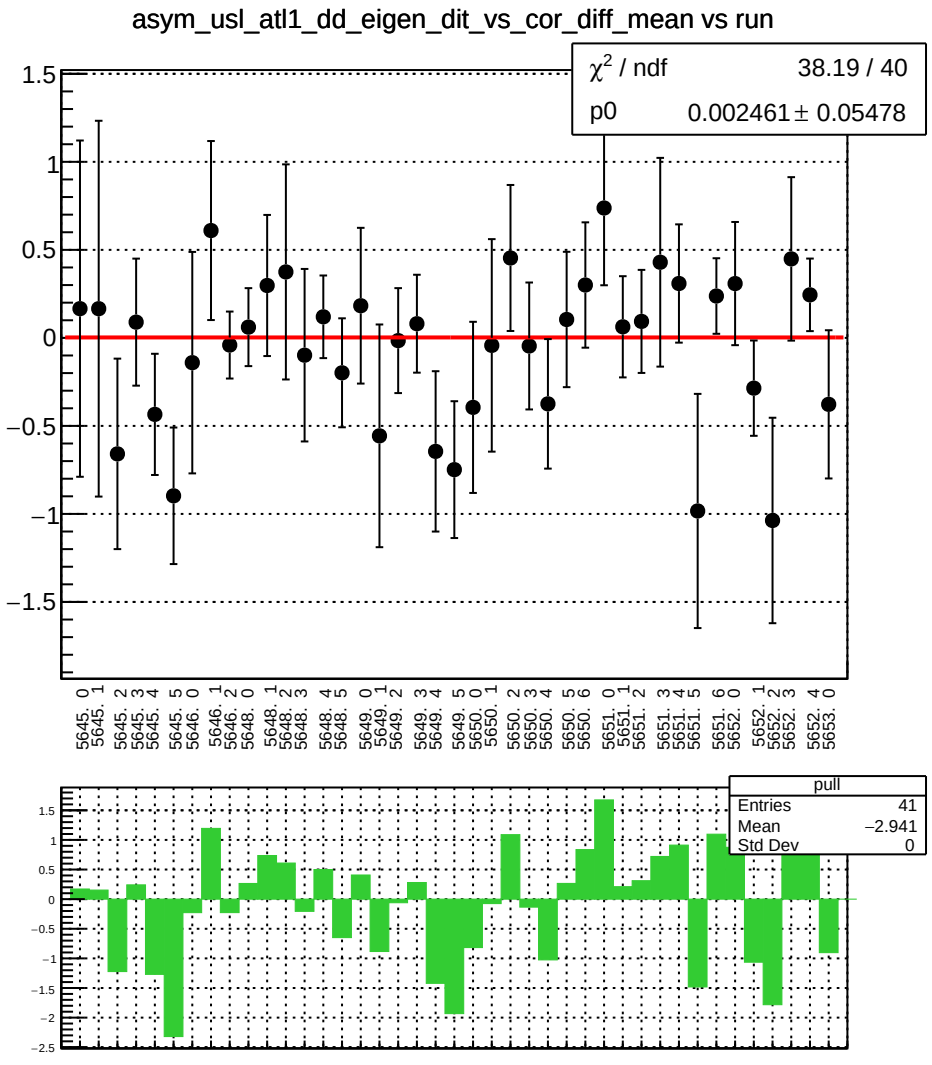

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.19 / 40
p0 0.002474 ± 0.05478
pull
Entries 41
Mean −2.931
Std Dev 0

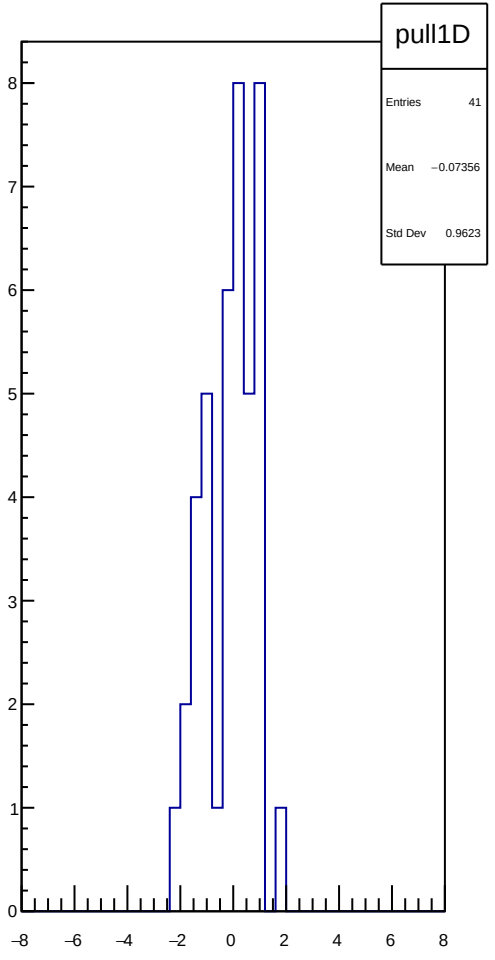

pull1D
Entries 41
Mean −0.07358
Std Dev 0.9623

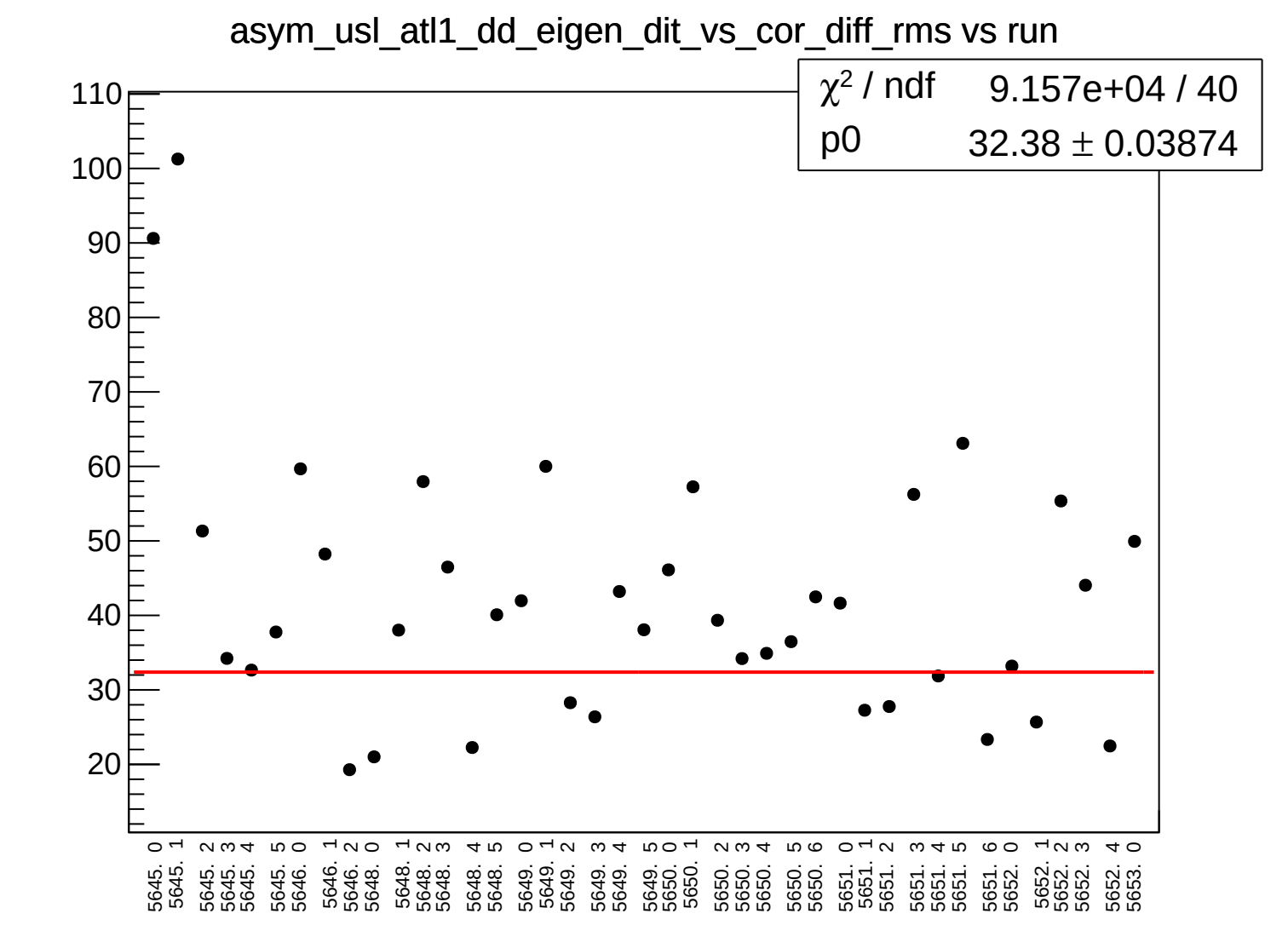

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.156e+04 / 40
p0 32.38 ± 0.03873
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

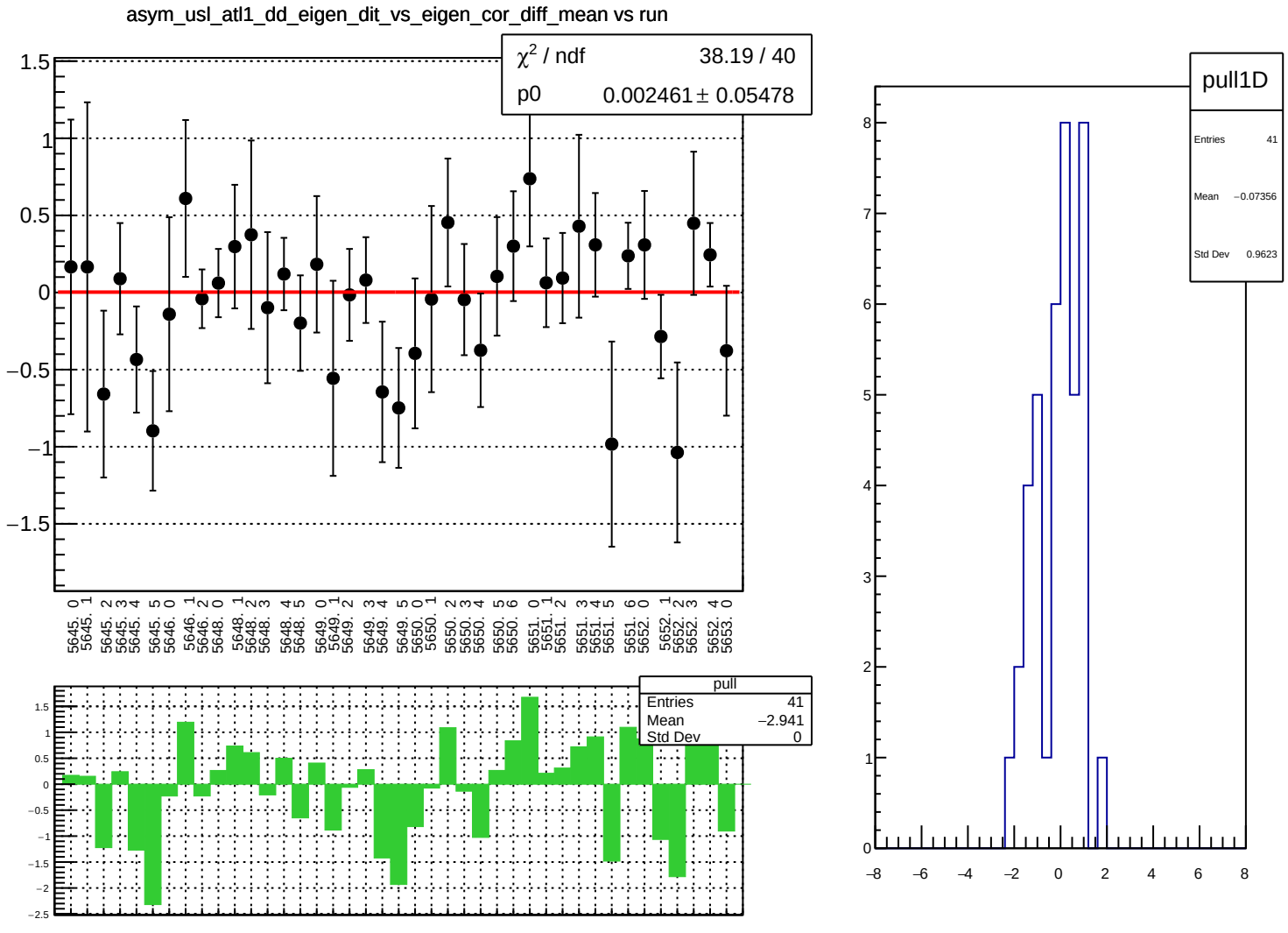

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.4 / 40
p0 −4.823e−06 ± 8.589e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 115.5
Std Dev 7.299
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.004109
Std Dev 1.064
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

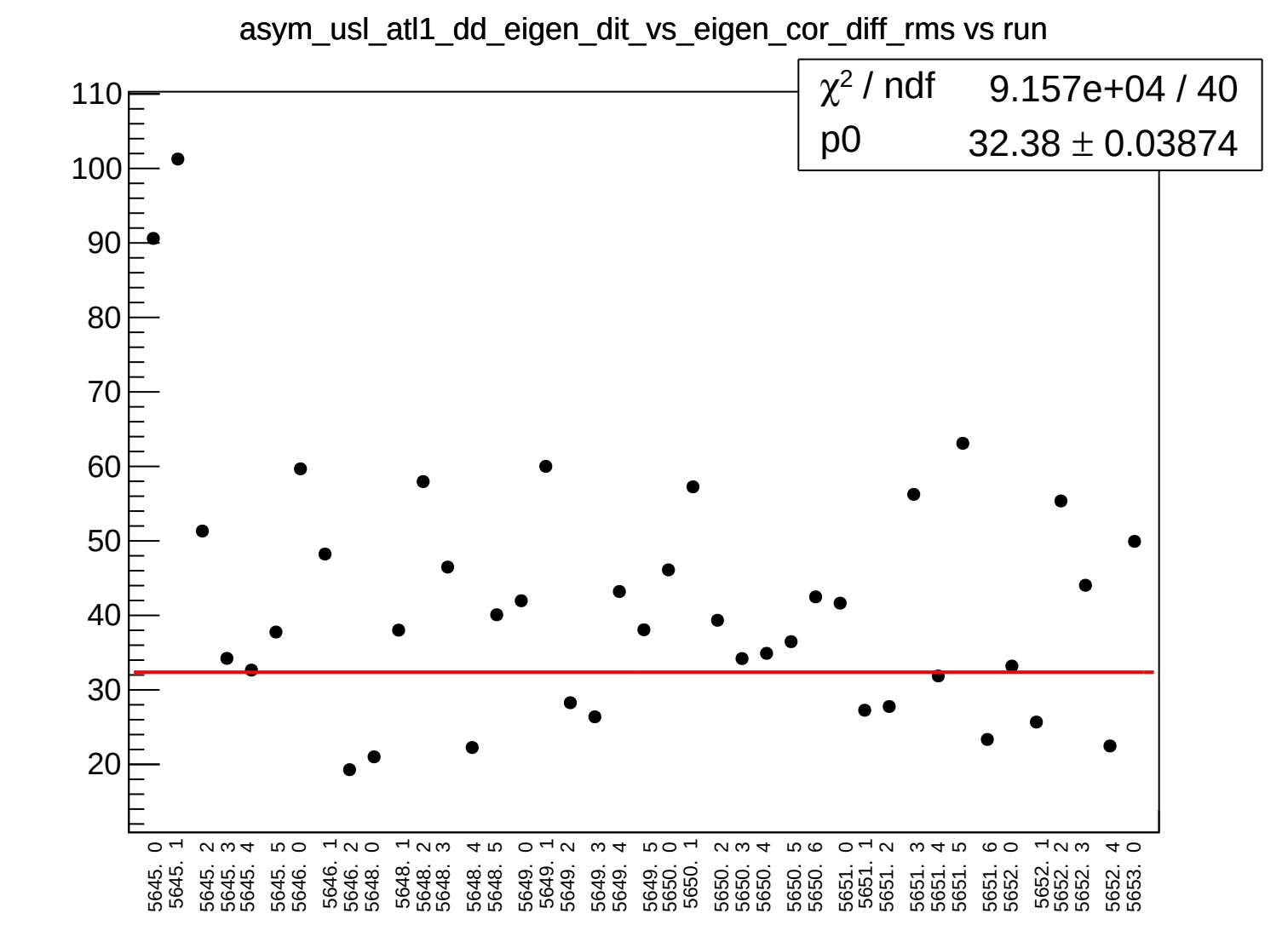

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2728 / 40
p0 0.00539 ± 6.073e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

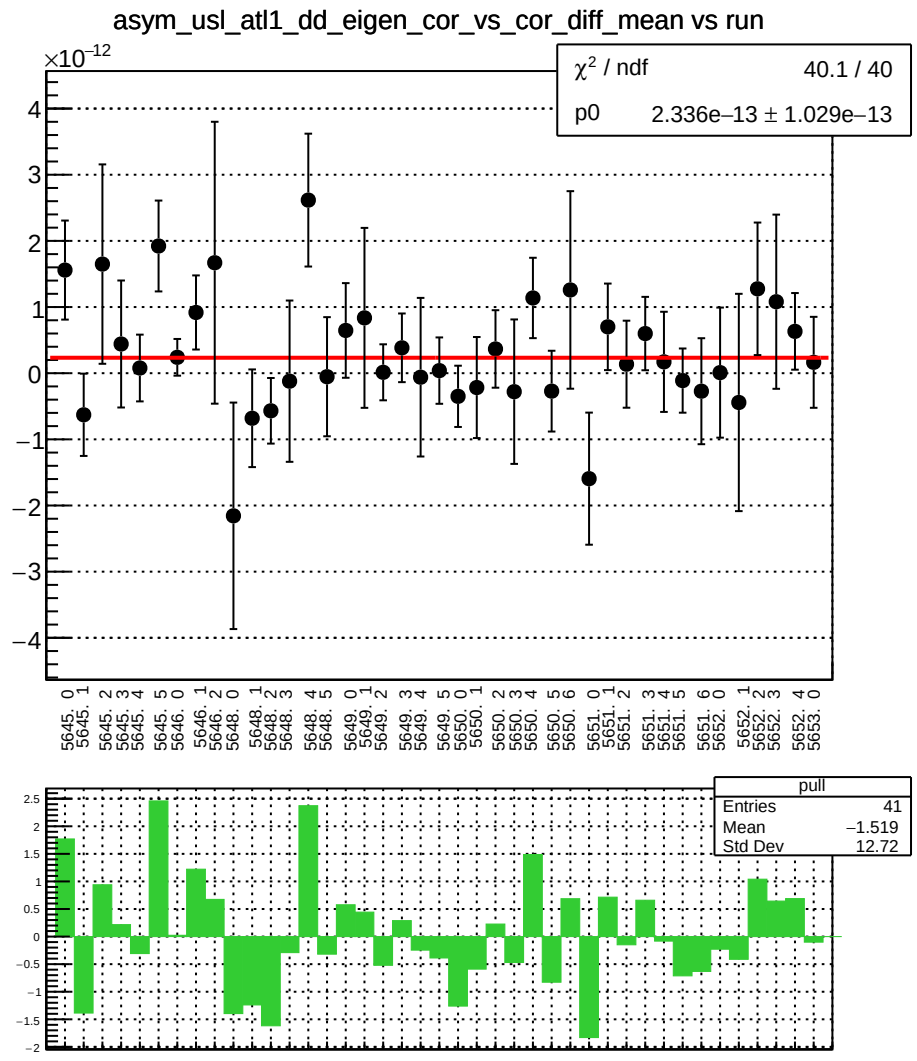

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.19 / 40
p0 0.002461 ± 0.05478
pull
Entries 41
Mean −2.941
Std Dev 0

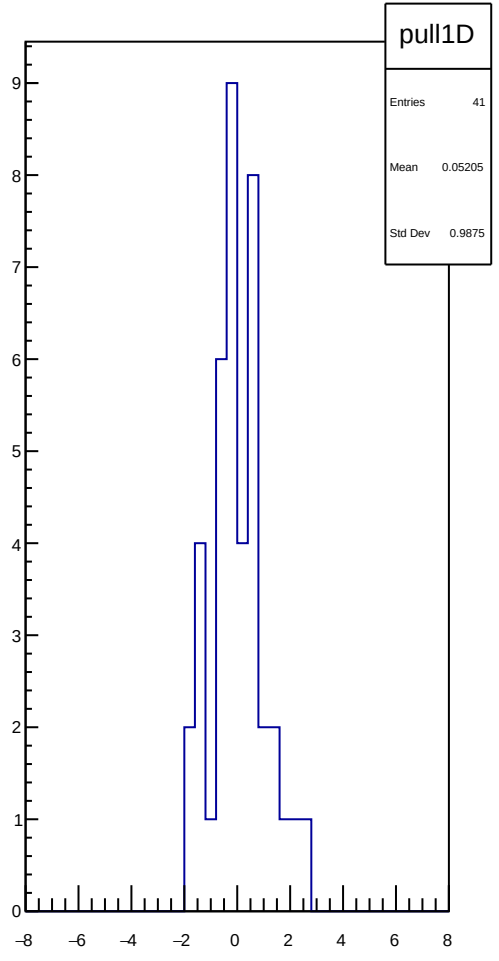

pull1D
Entries 41
Mean −0.07356
Std Dev 0.9623

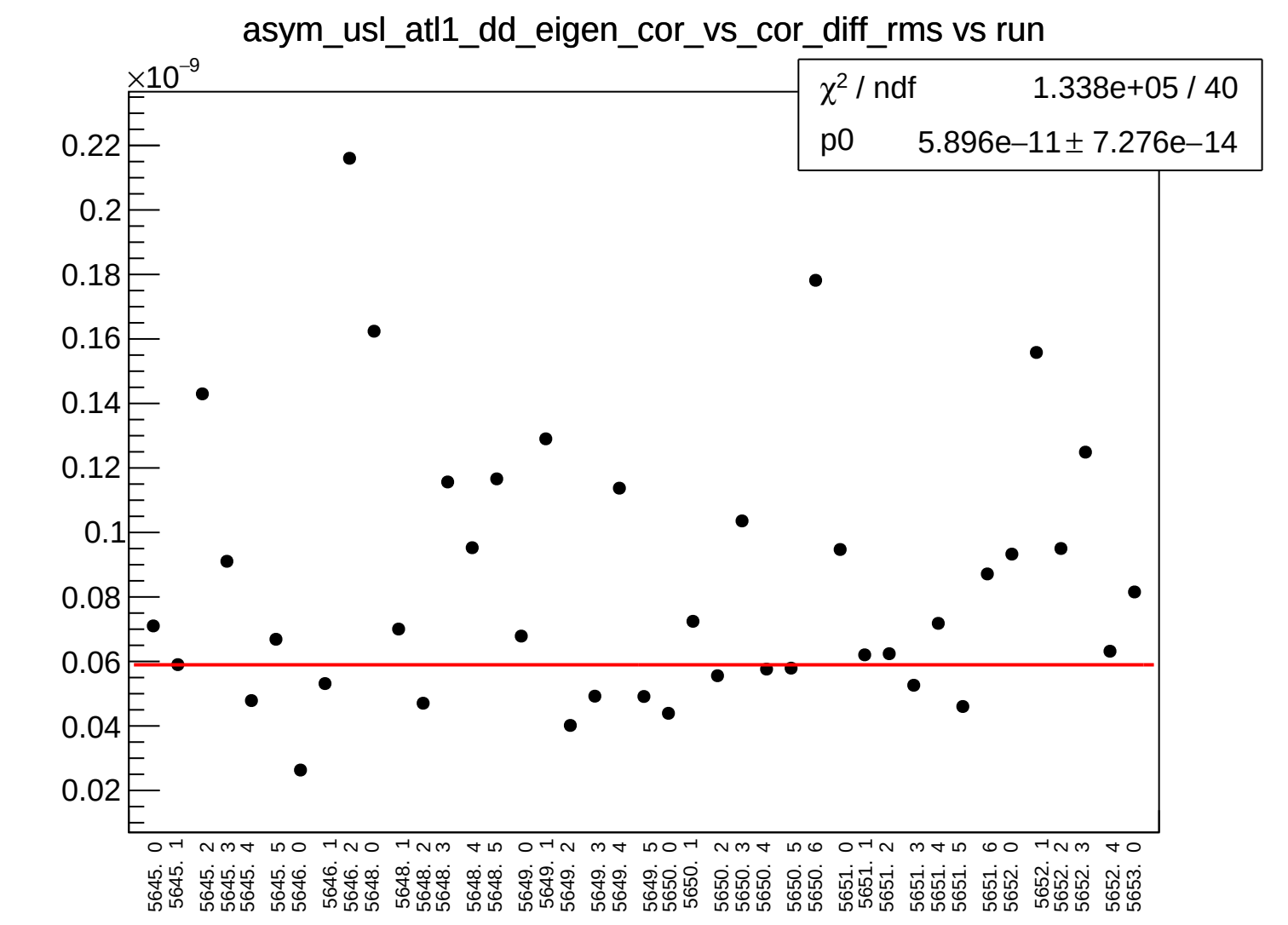

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.157e+04 / 40
p0 32.38 ± 0.03874
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

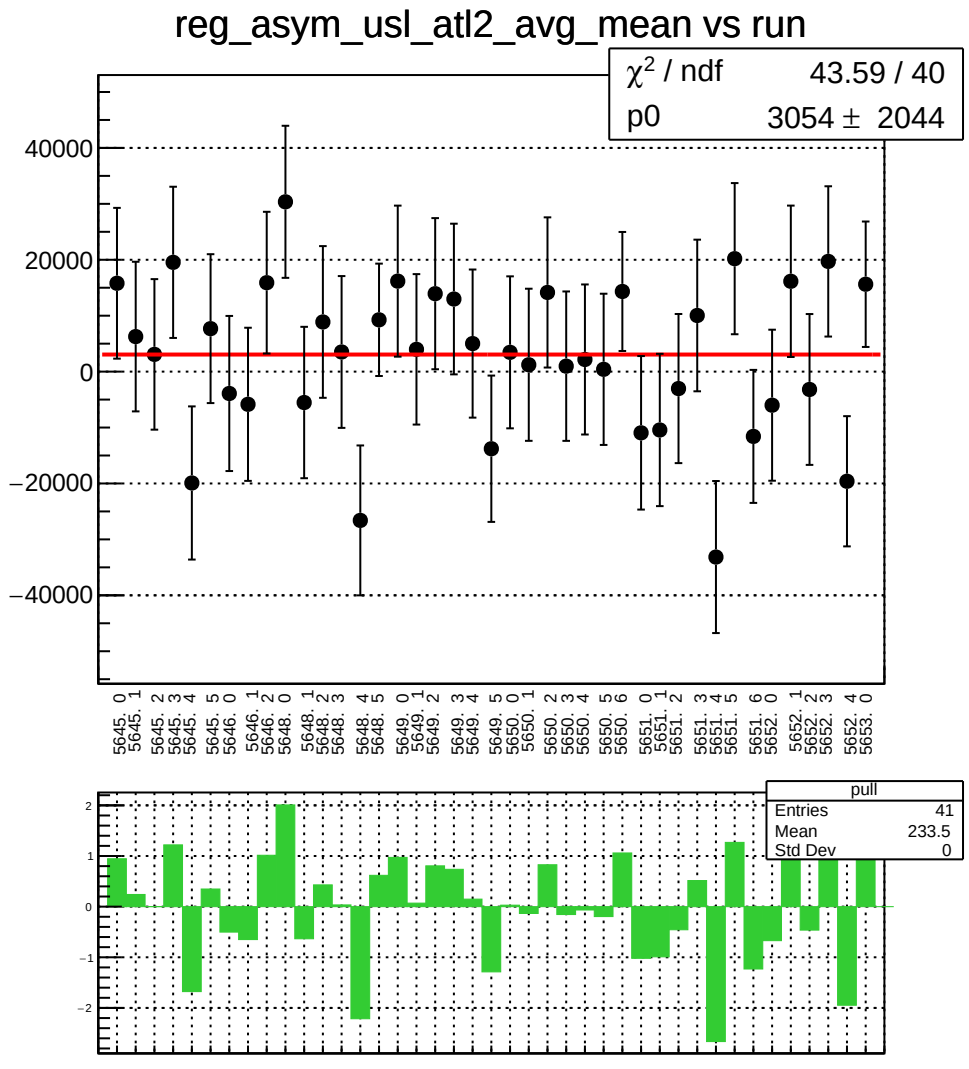

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.19 / 40
p0 0.002461 ± 0.05478
pull
Entries 41
Mean −2.941
Std Dev 0
pull1D
Entries 41
Mean −0.07356
Std Dev 0.9623

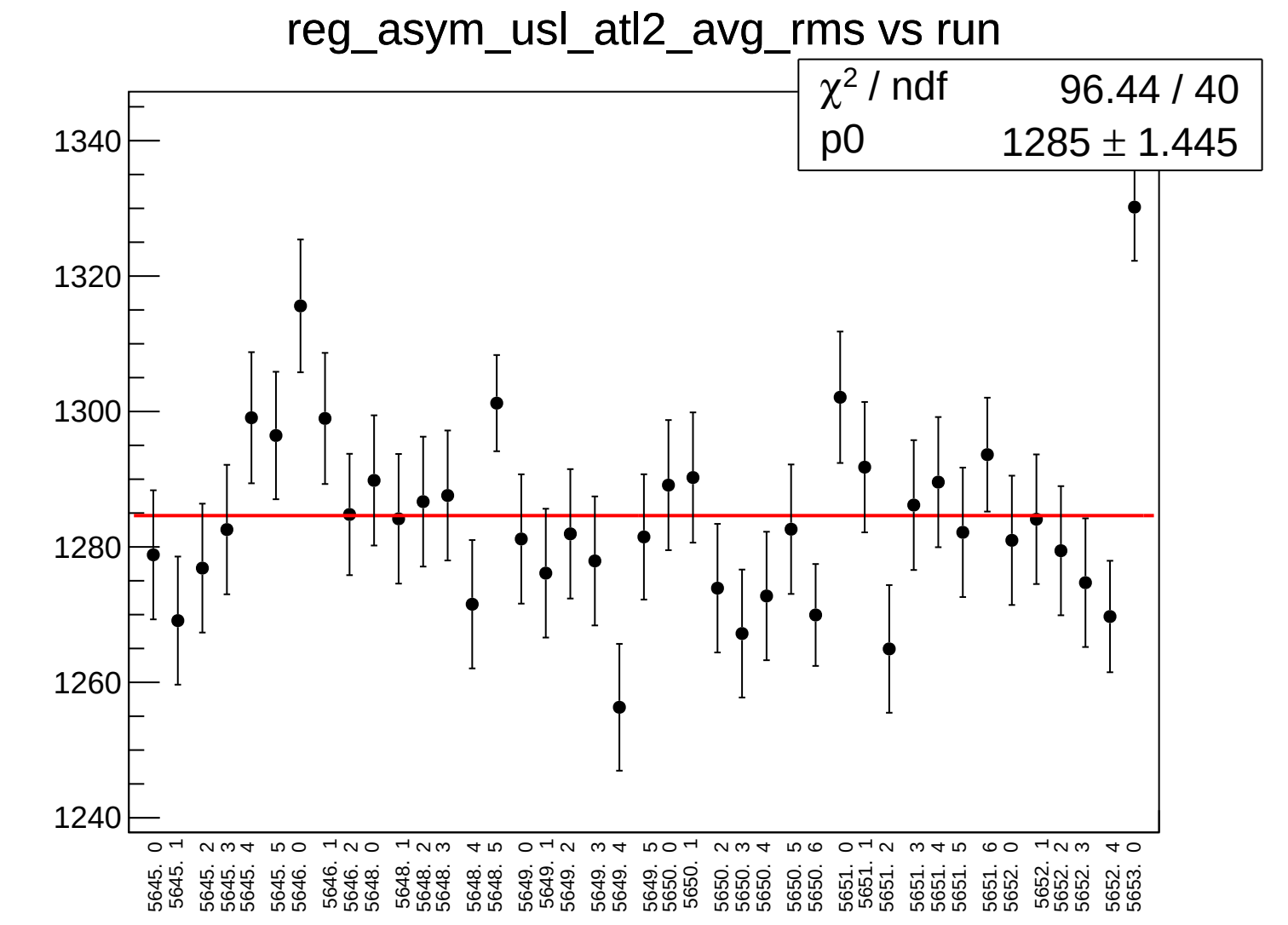

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.157e+04 / 40
p0 32.38 ± 0.03874
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

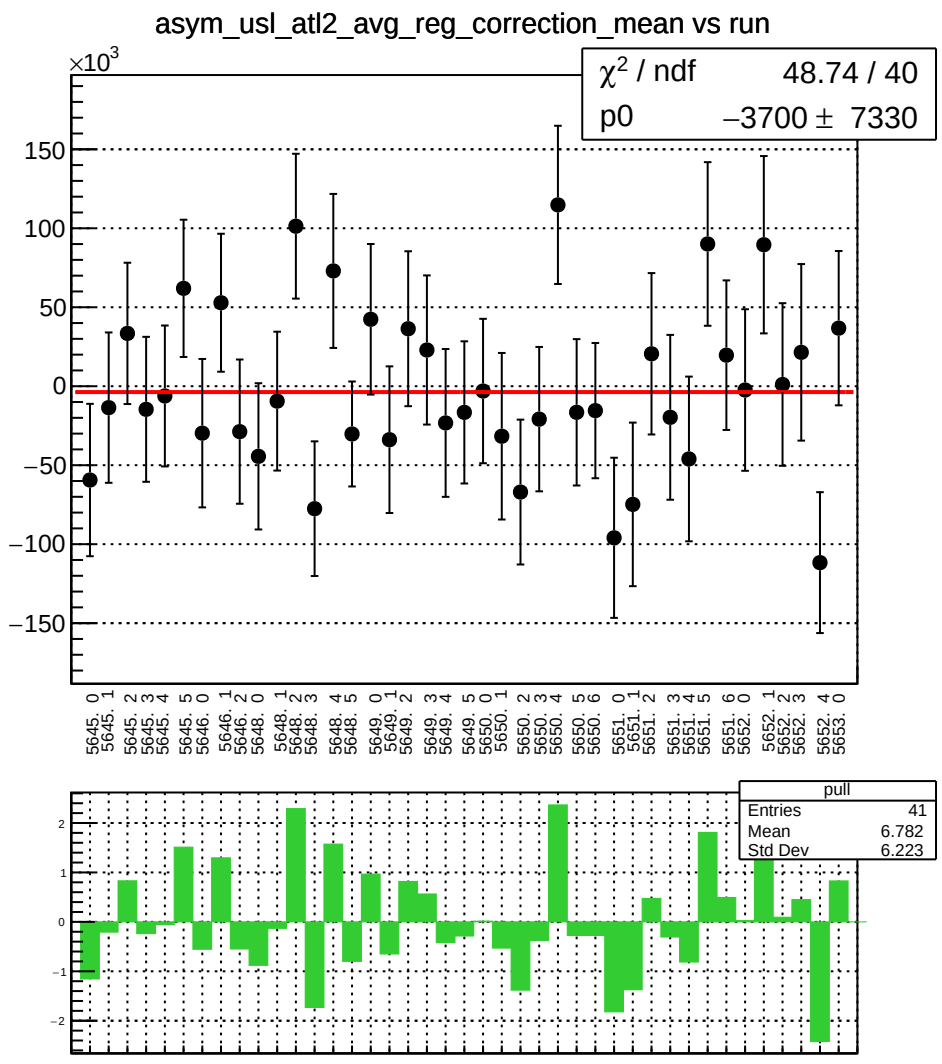

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 40.1 / 40
p0 2.336e−13 ± 1.029e−13
pull
Entries 41
Mean −1.519
Std Dev 12.72

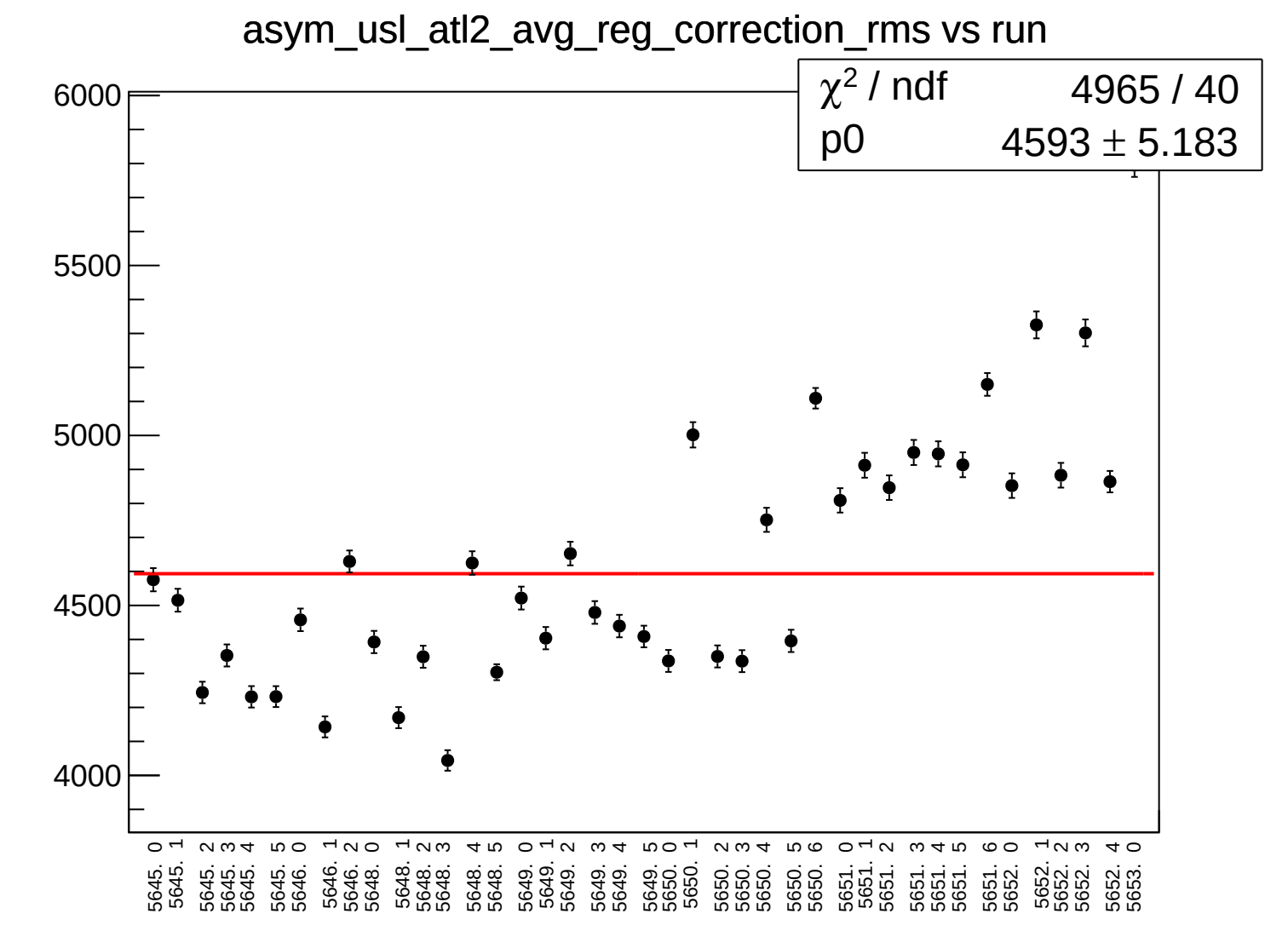

pull1D
Entries 41
Mean 0.05205
Std Dev 0.9875

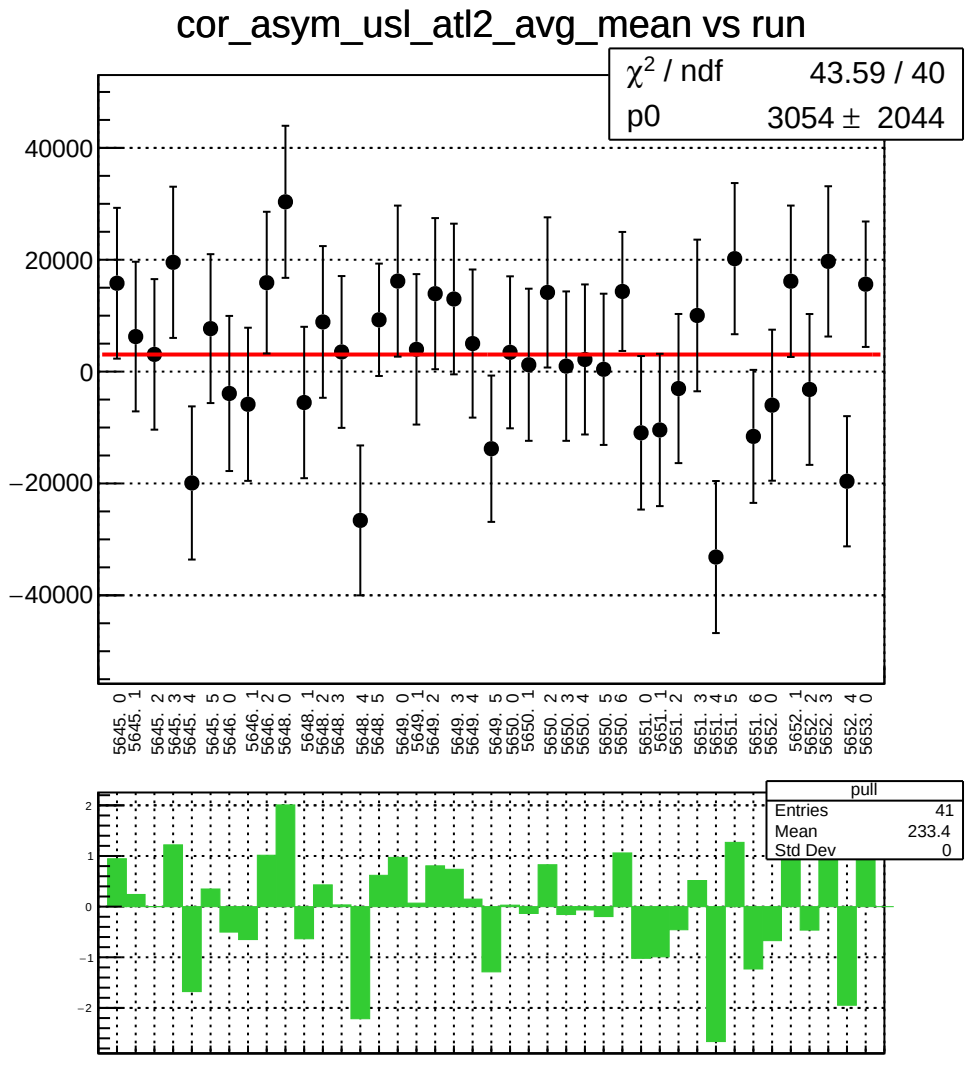

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.338e+05 / 40
p0 5.896e−11 ± 7.276e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

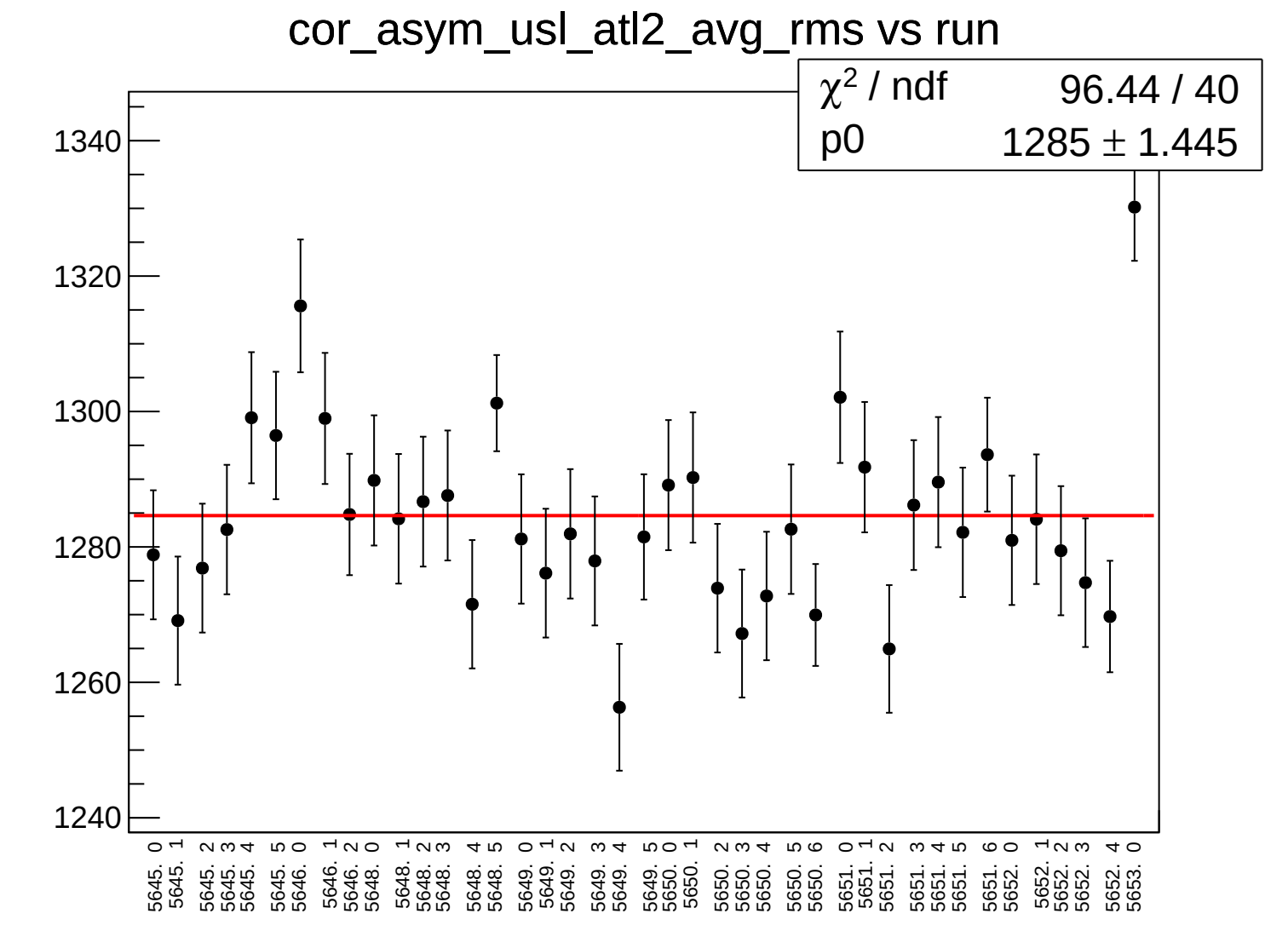

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 43.59 / 40
p0 3054 ± 2044
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 233.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.008297
Std Dev 1.031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 96.44 / 40
p0 1285 ± 1.445
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 48.74 / 40
p0 −3700 ± 7330
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 6.782
Std Dev 6.223
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02069
Std Dev 1.09
9
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 4965 / 40
p0 4593 ± 5.183
6000
5500
5000
4500
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 43.59 / 40
p0 3054 ± 2044
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 233.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.008297
Std Dev 1.031
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 96.44 / 40
p0 1285 ± 1.445
1340
1320
1300
1280
1260
1240
5645. 0
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5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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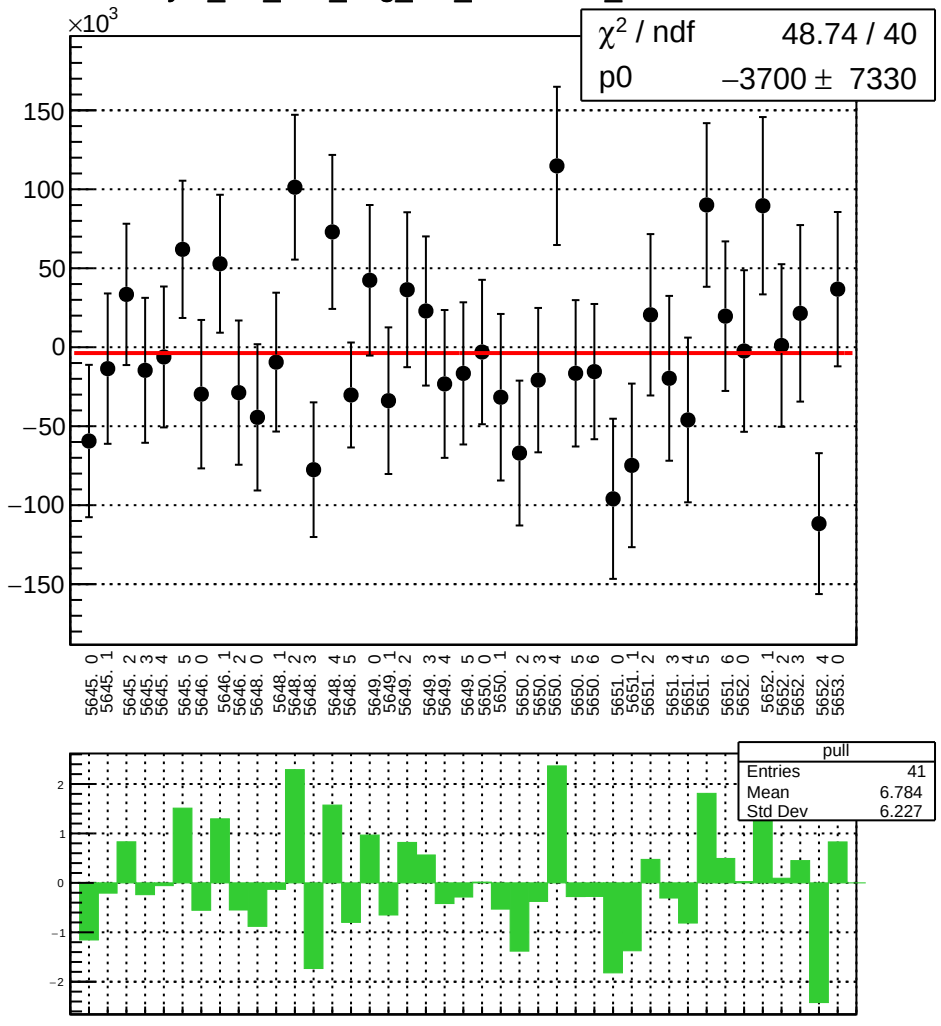
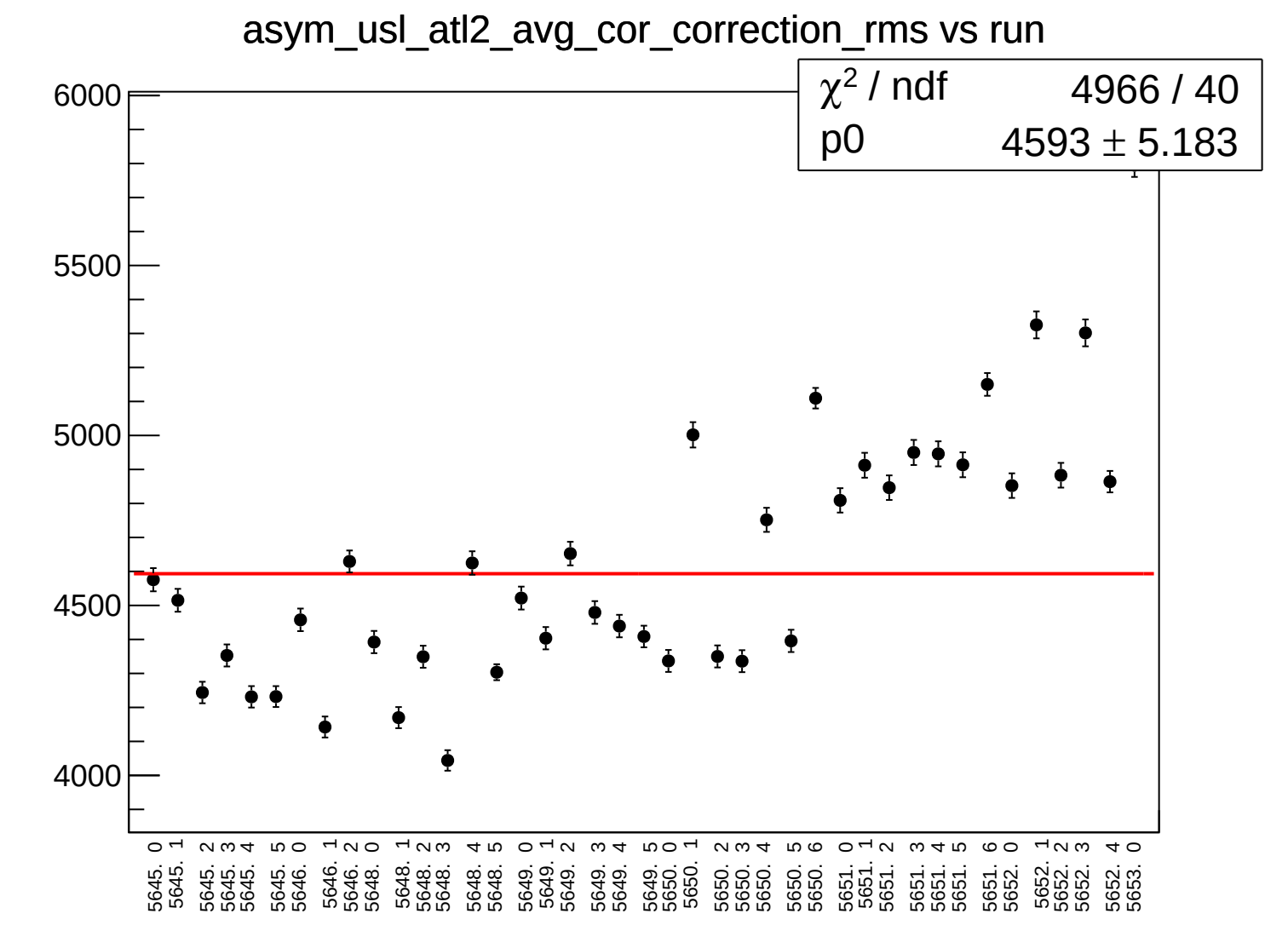
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 48.74 / 40
p0 −3700 ± 7330
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 6.784
Std Dev 6.227
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.02069
Std Dev 1.09
9
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 4966 / 40
p0 4593 ± 5.183
6000
5500
5000
4500
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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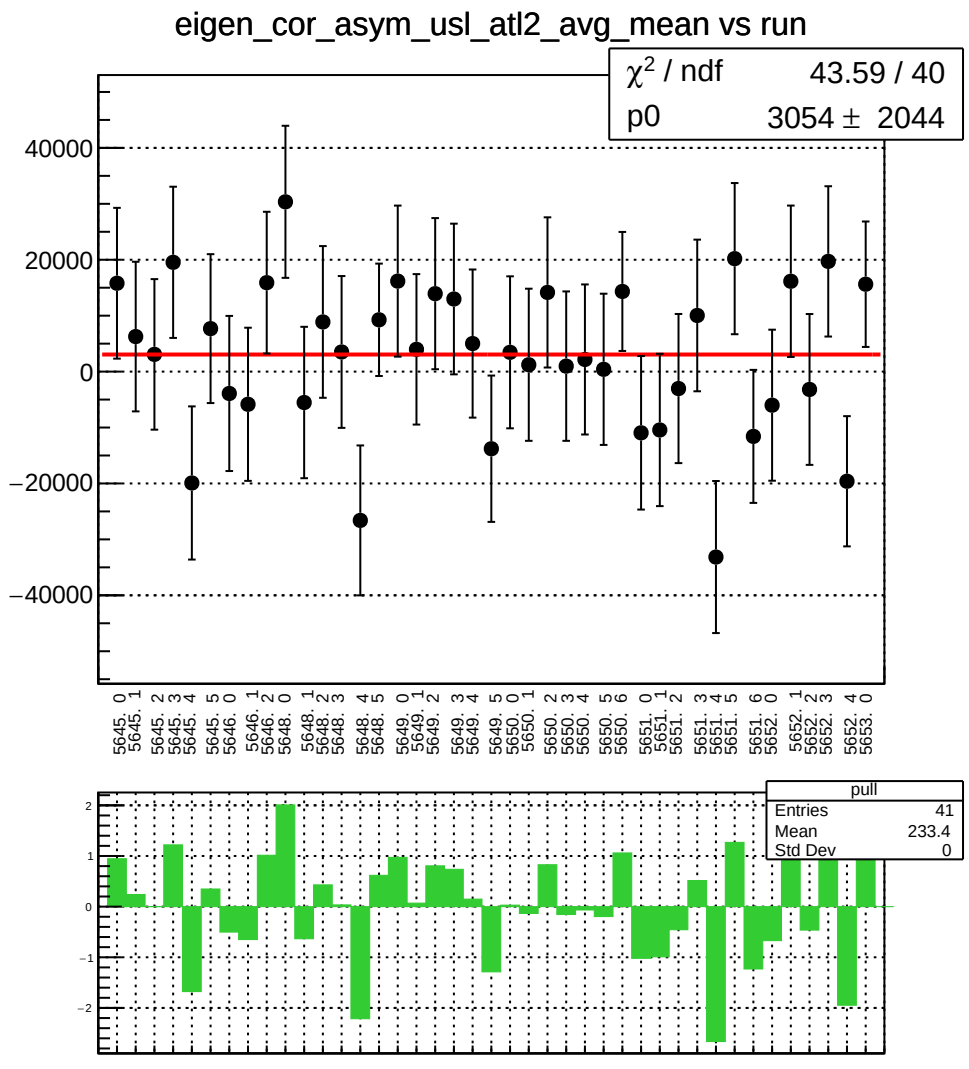
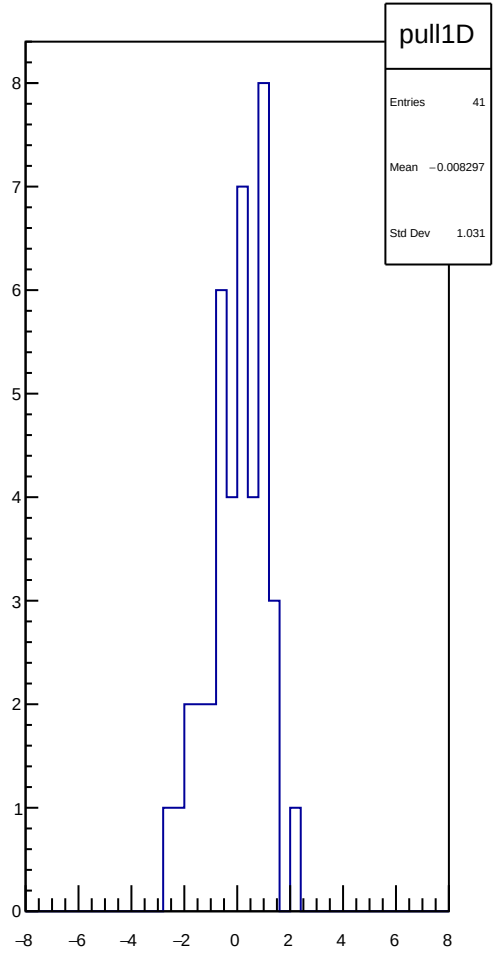
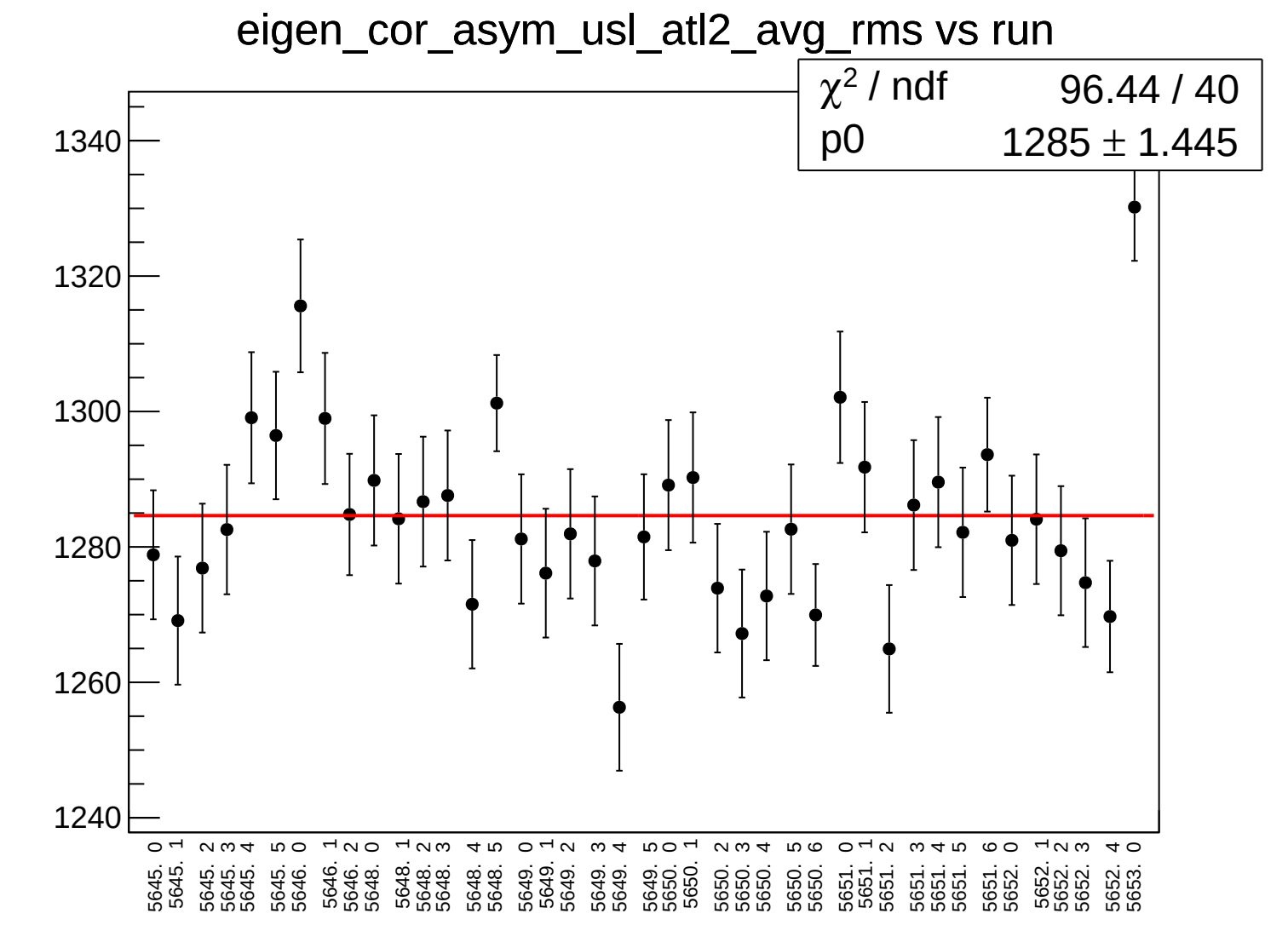
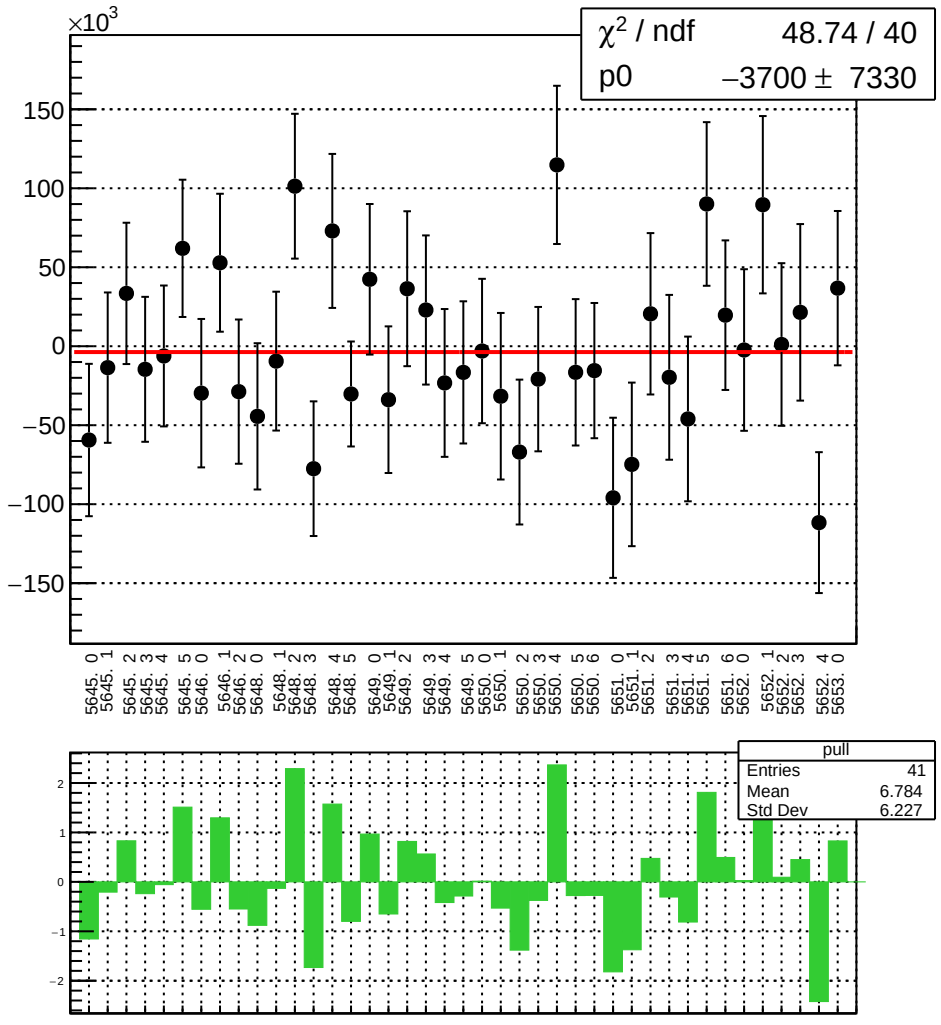
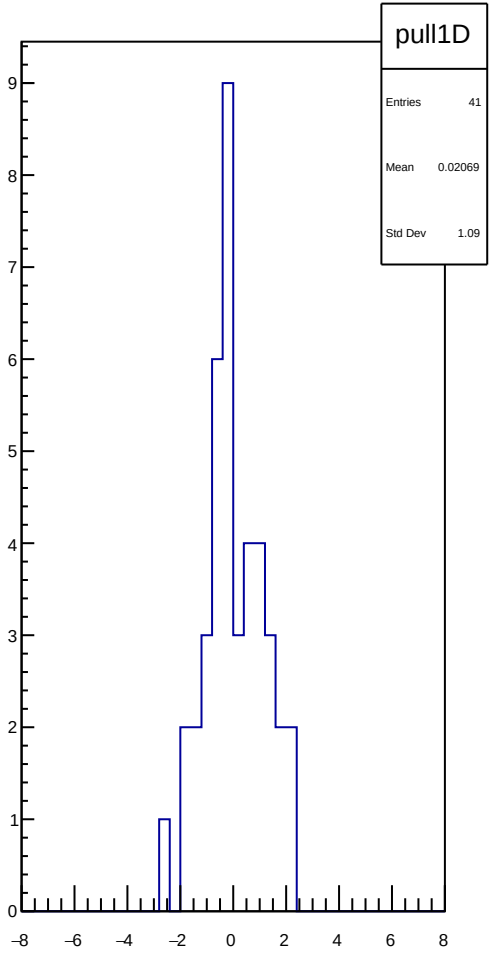
5652. 2
5652. 3
5652. 4
5653. 0

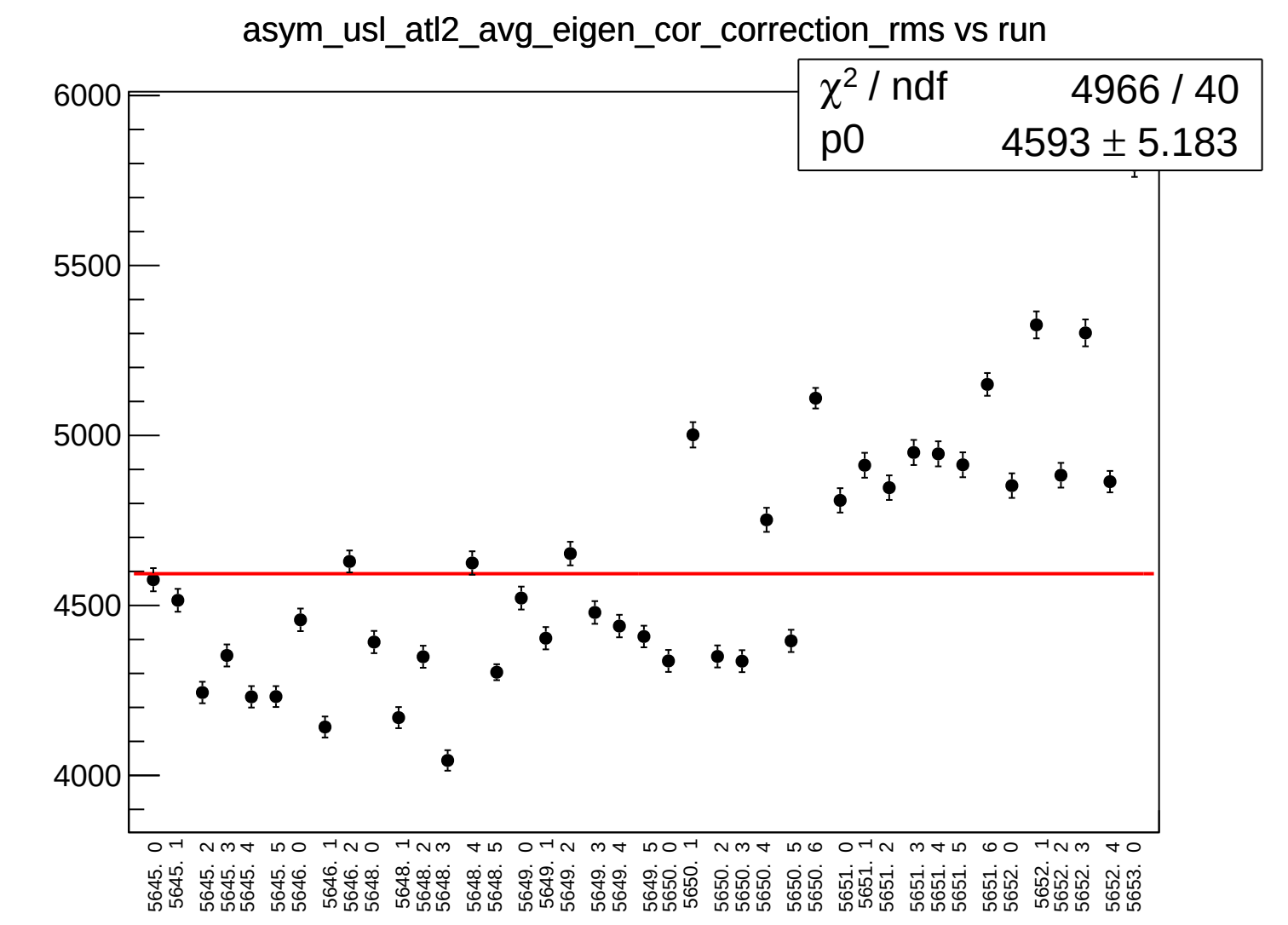

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 43.59 / 40
p0 3054 ± 2044
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 233.4
Std Dev 0
2
1
0
−1
−2

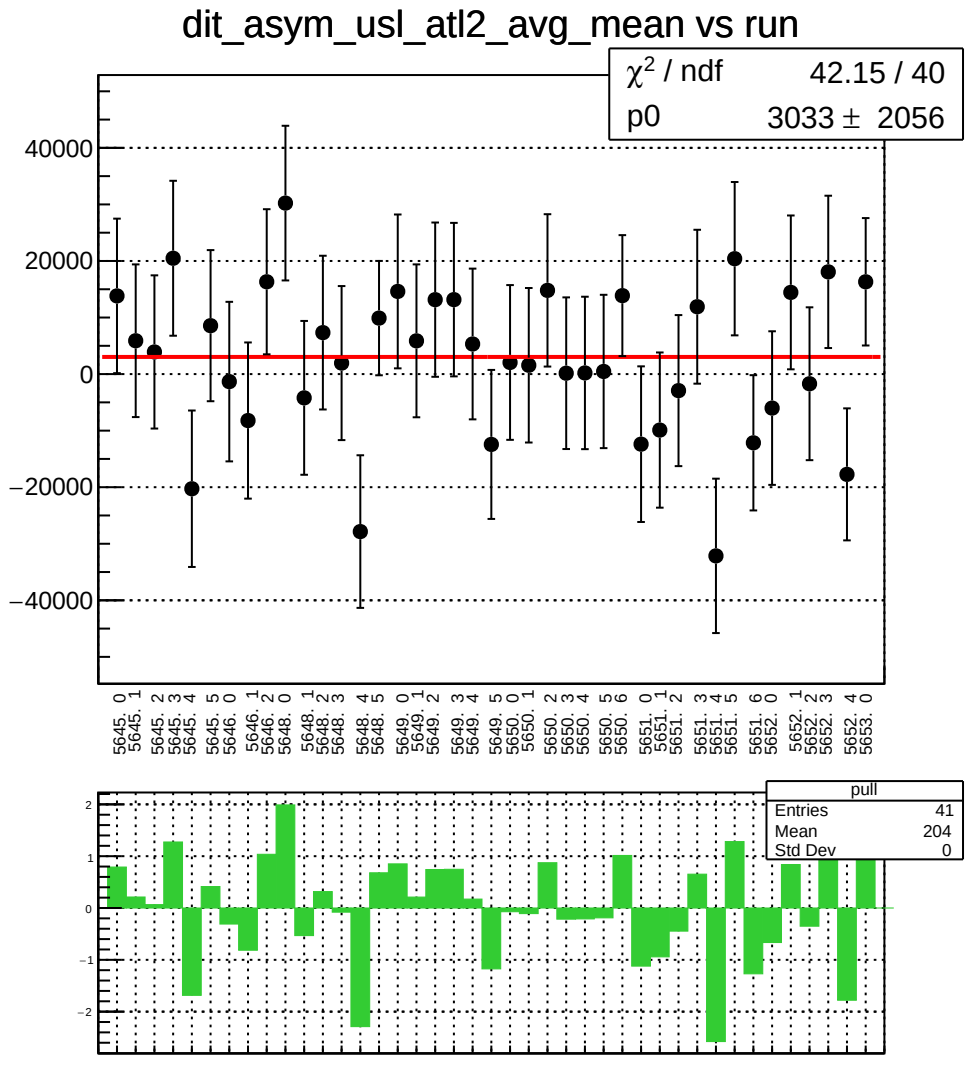

pull1D
Entries 41
Mean −0.008297
Std Dev 1.031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

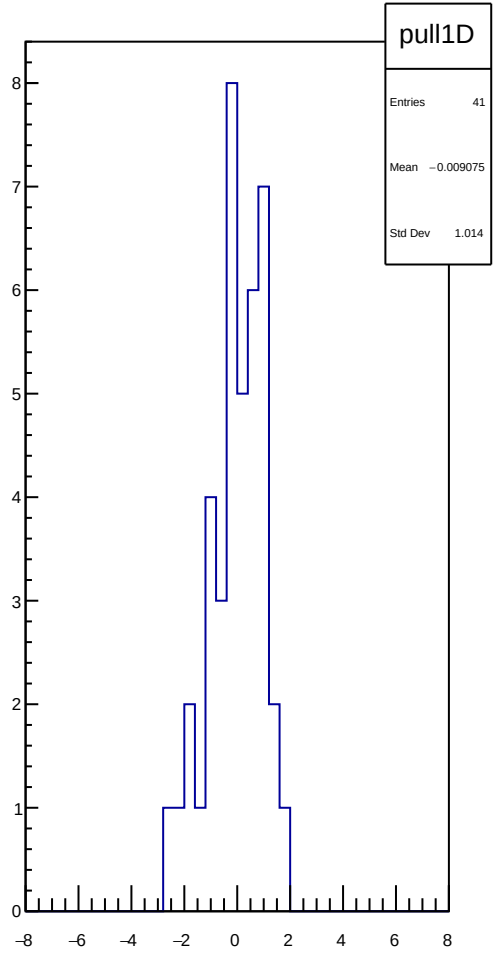

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 96.44 / 40
p0 1285 ± 1.445
1340
1320
1300
1280
1260
1240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

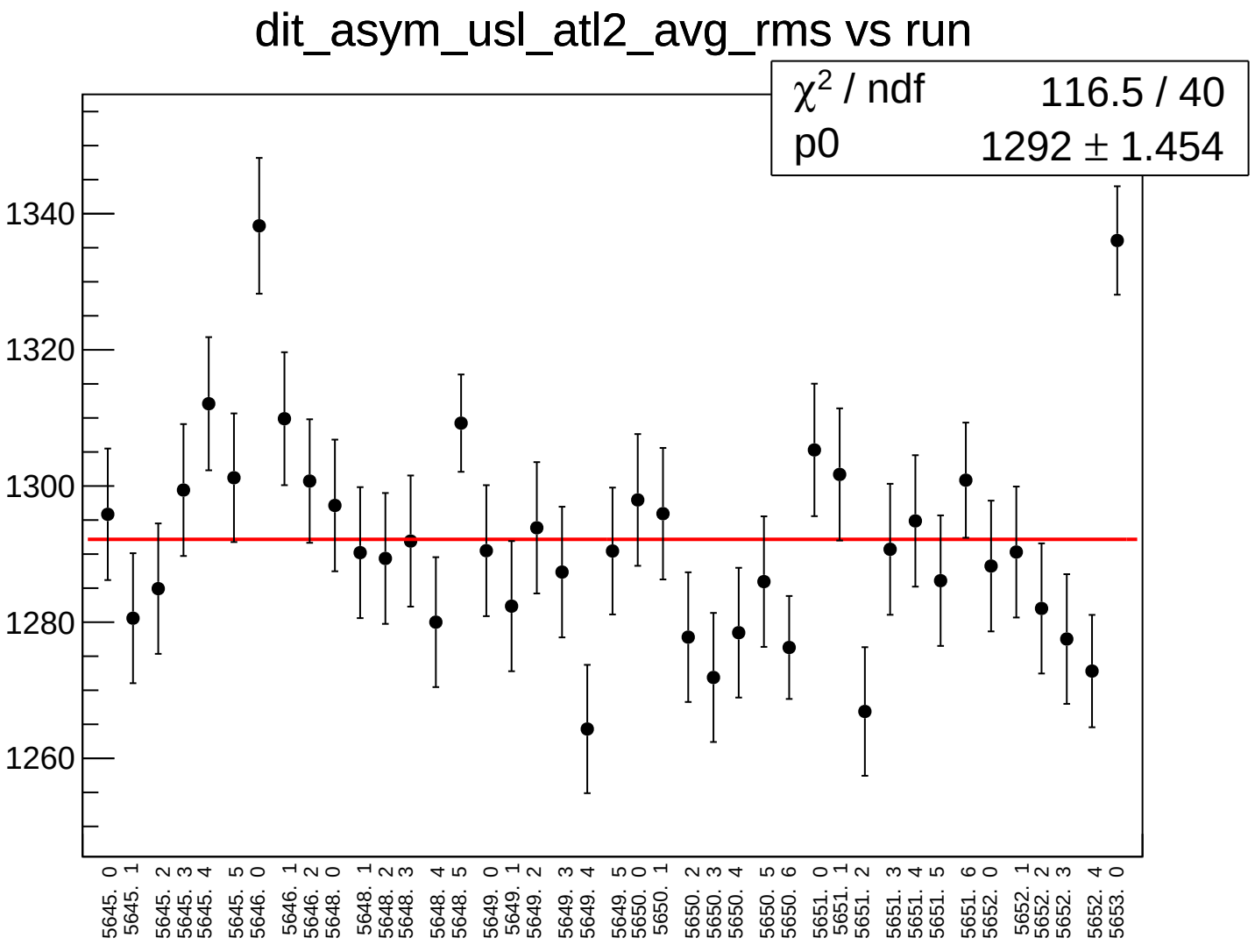

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 48.74 / 40
p0 −3700 ± 7330
pull
Entries 41
Mean 6.784
Std Dev 6.227

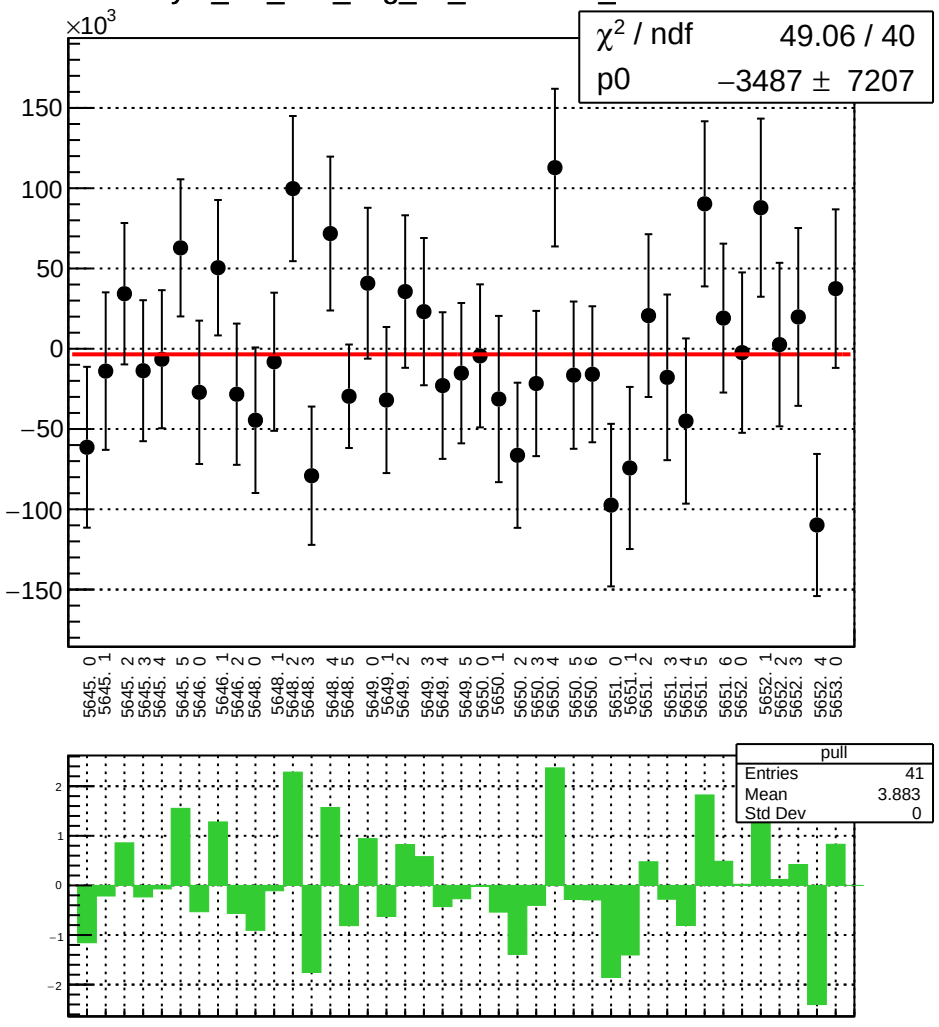

pull1D
Entries 41
Mean 0.02069
Std Dev 1.09

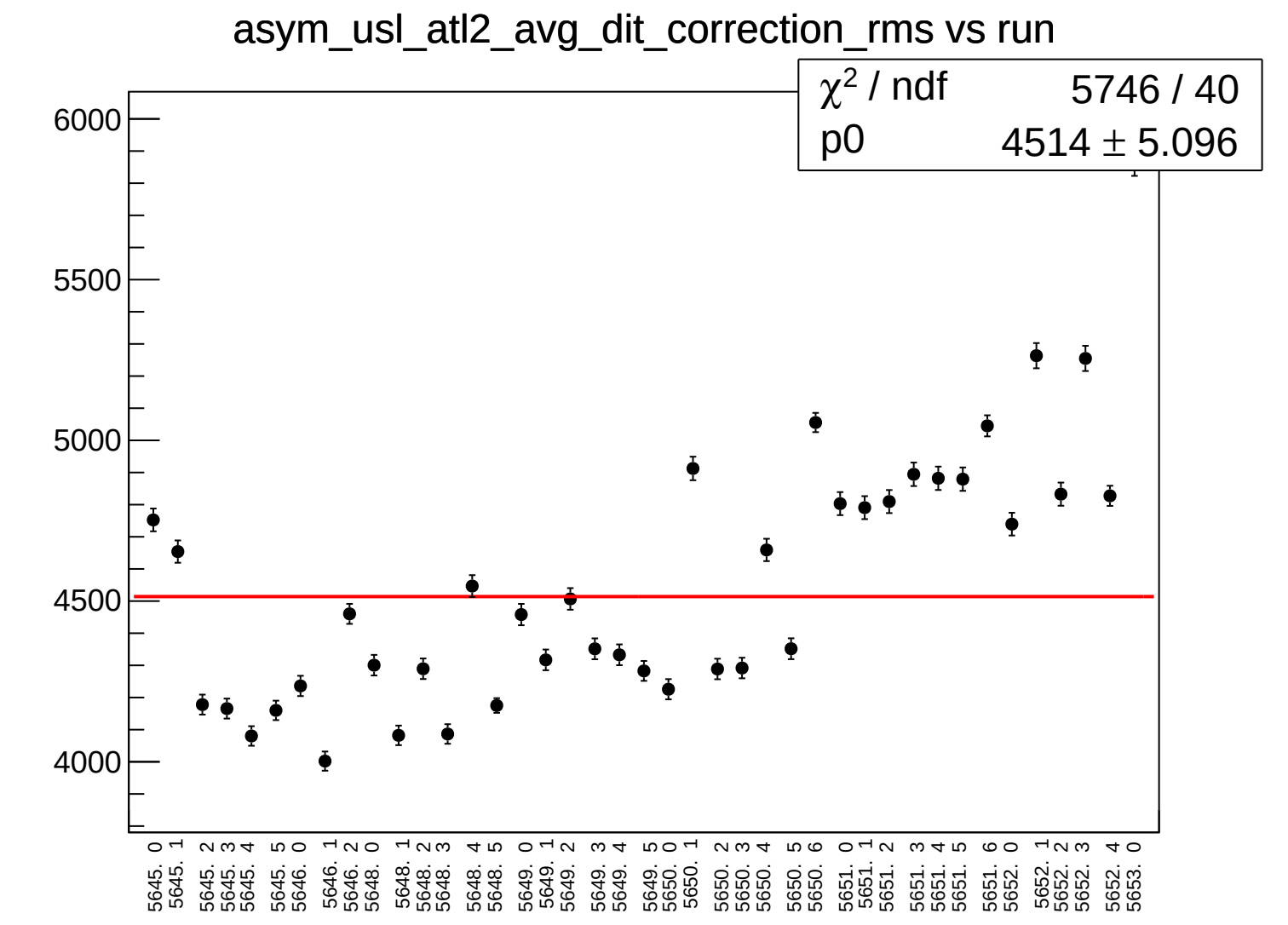

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4966 / 40
p0 4593 ± 5.183
6000
5500
5000
4500
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

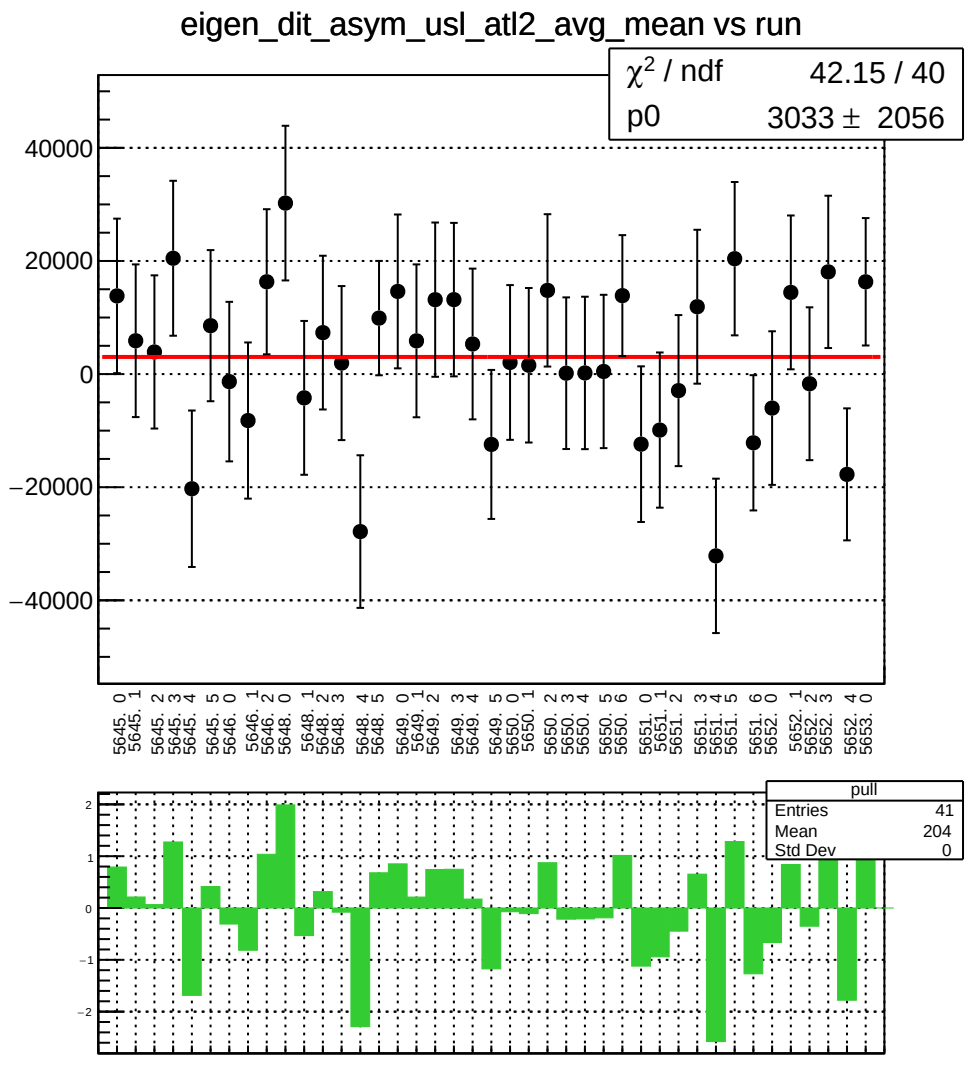

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 42.15 / 40
p0 3033 ± 2056
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 204
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.009075
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 116.5 / 40
p0 1292 ± 1.454
1340
1320
1300
1280
1260
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 49.06 / 40
p0 −3487 ± 7207
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 3.883
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01828
Std Dev 1.094
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 5746 / 40
p0 4514 ± 5.096
6000
5500
5000
4500
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 42.15 / 40
p0 3033 ± 2056
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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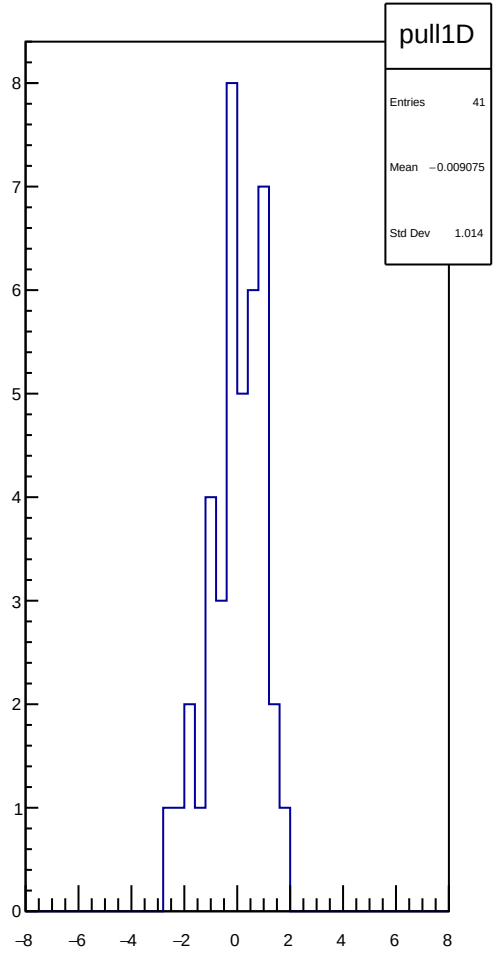
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 204
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.009075
Std Dev 1.014
8
7
6
5
4
3
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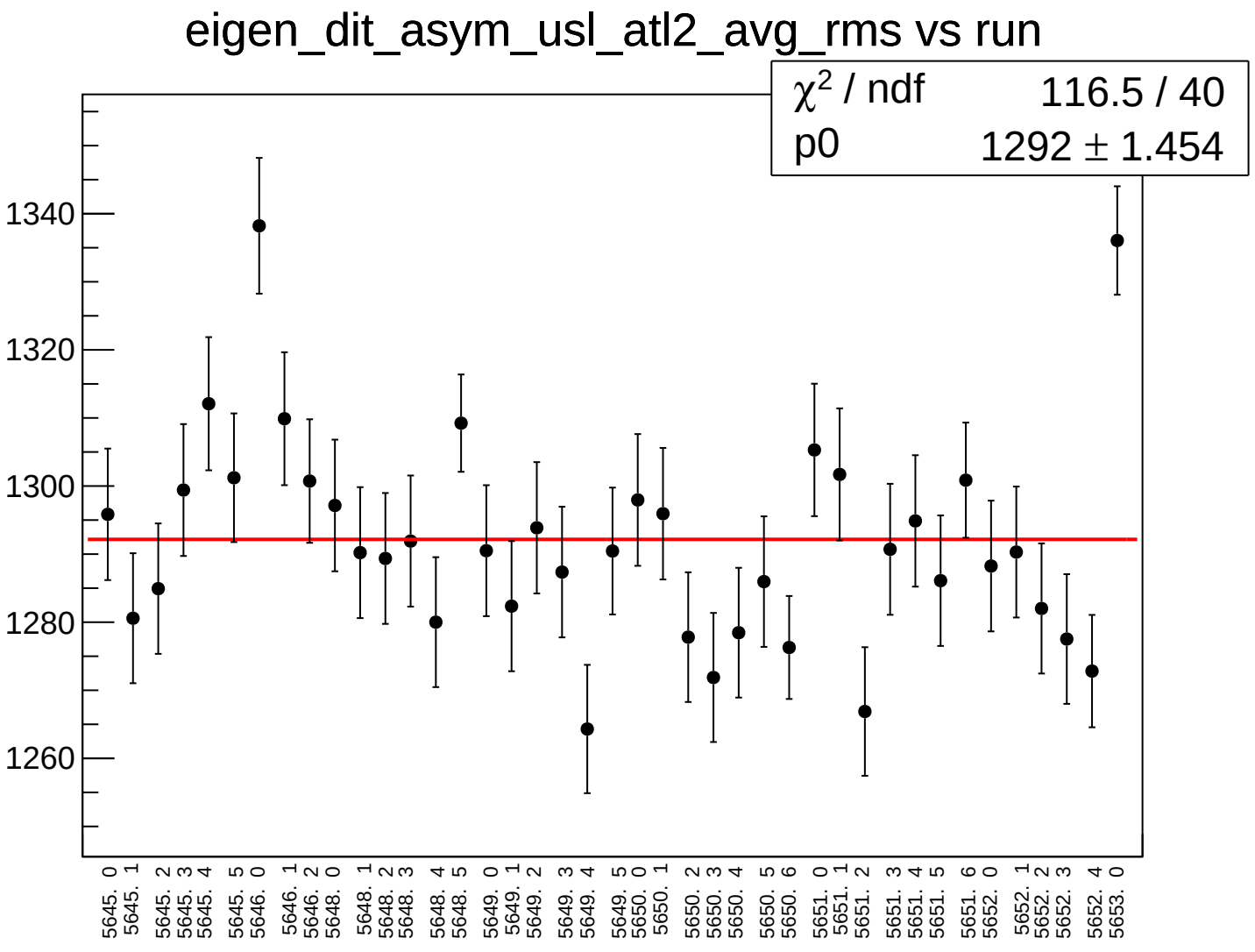
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 116.5 / 40
p0 1292 ± 1.454
1340
1320
1300
1280
1260
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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5649. 0
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5649. 2
5649. 3
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5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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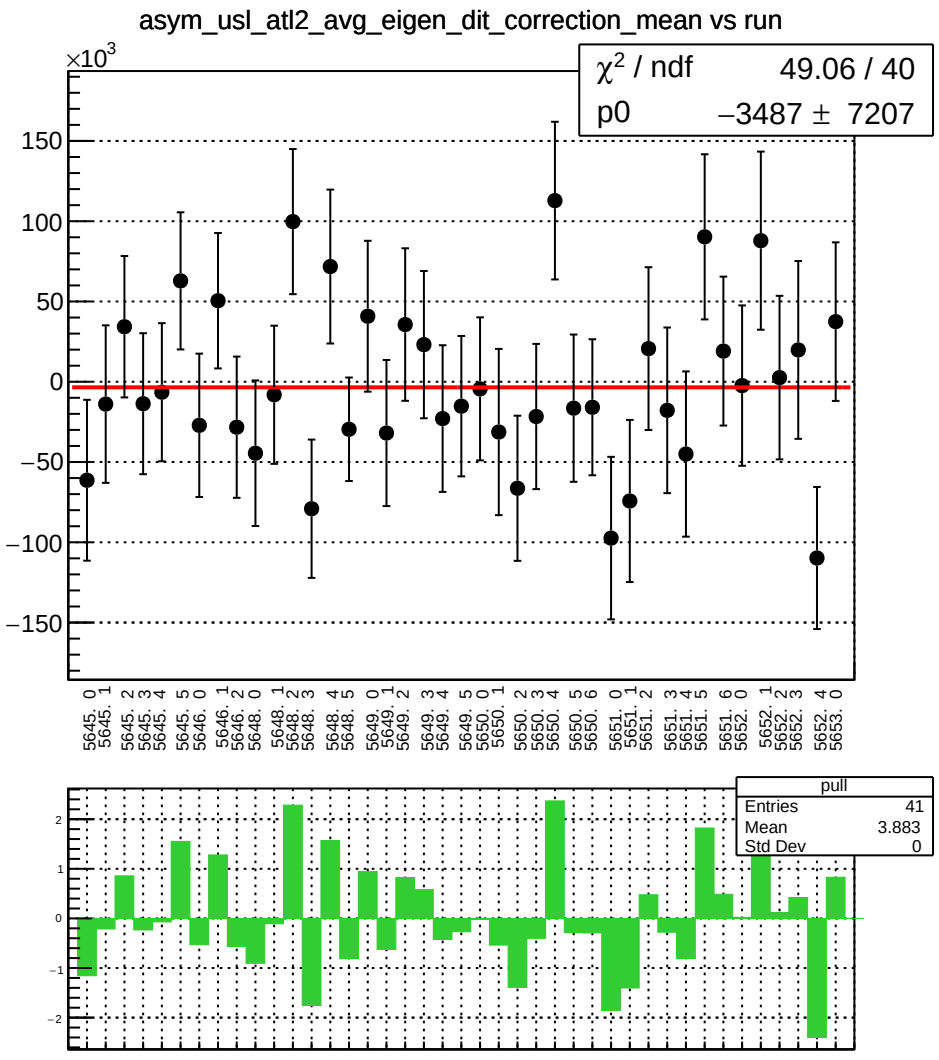
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 49.06 / 40
p0 −3487 ± 7207
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5648. 1
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5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
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5650. 6
5651. 0
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5651. 2
5651. 3
5651. 4
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5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 3.883
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01828
Std Dev 1.094
9
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−4
−2
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2
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6
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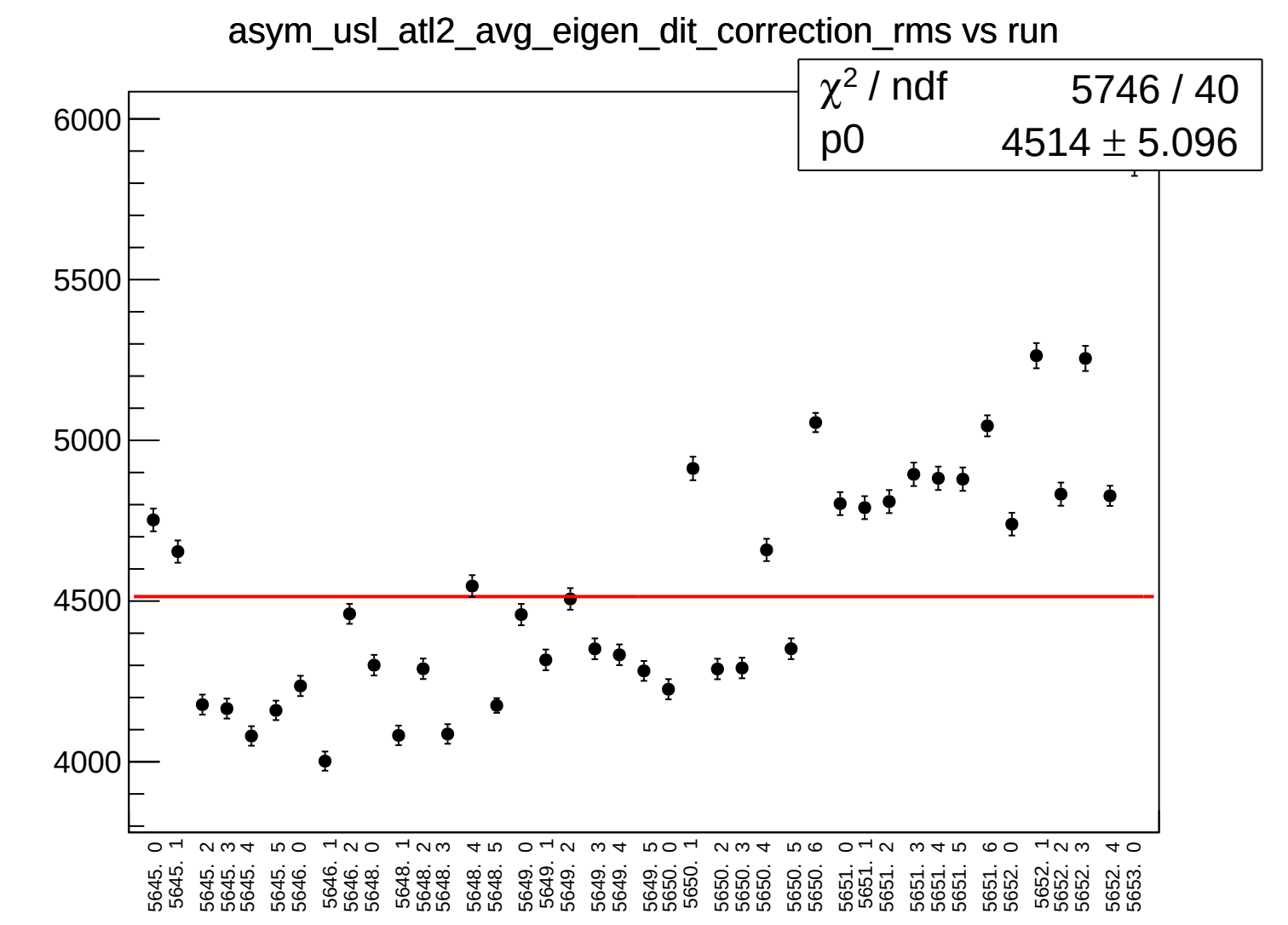
asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5746 / 40
p0 4514 ± 5.096
6000
5500
5000
4500
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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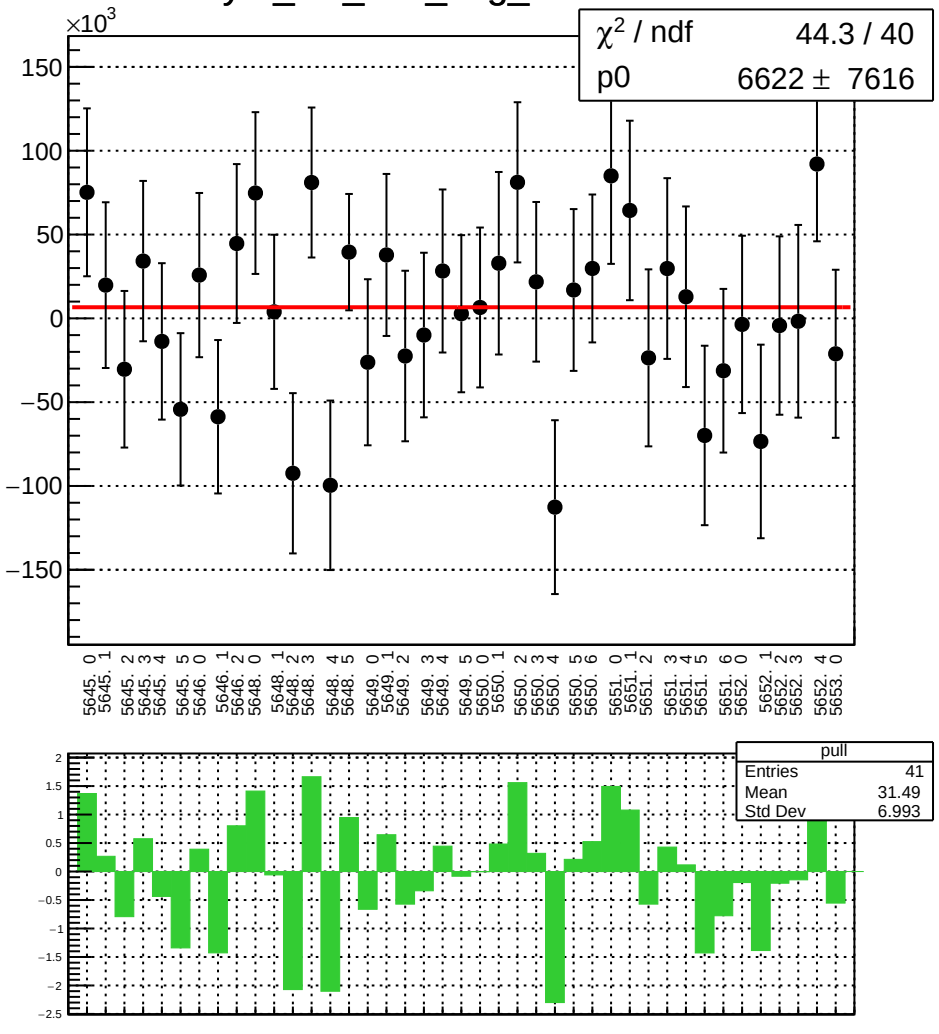
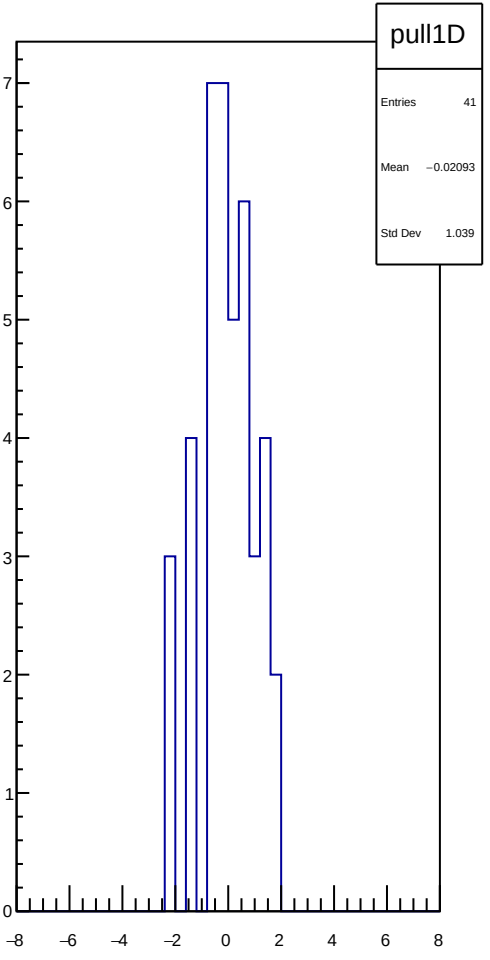
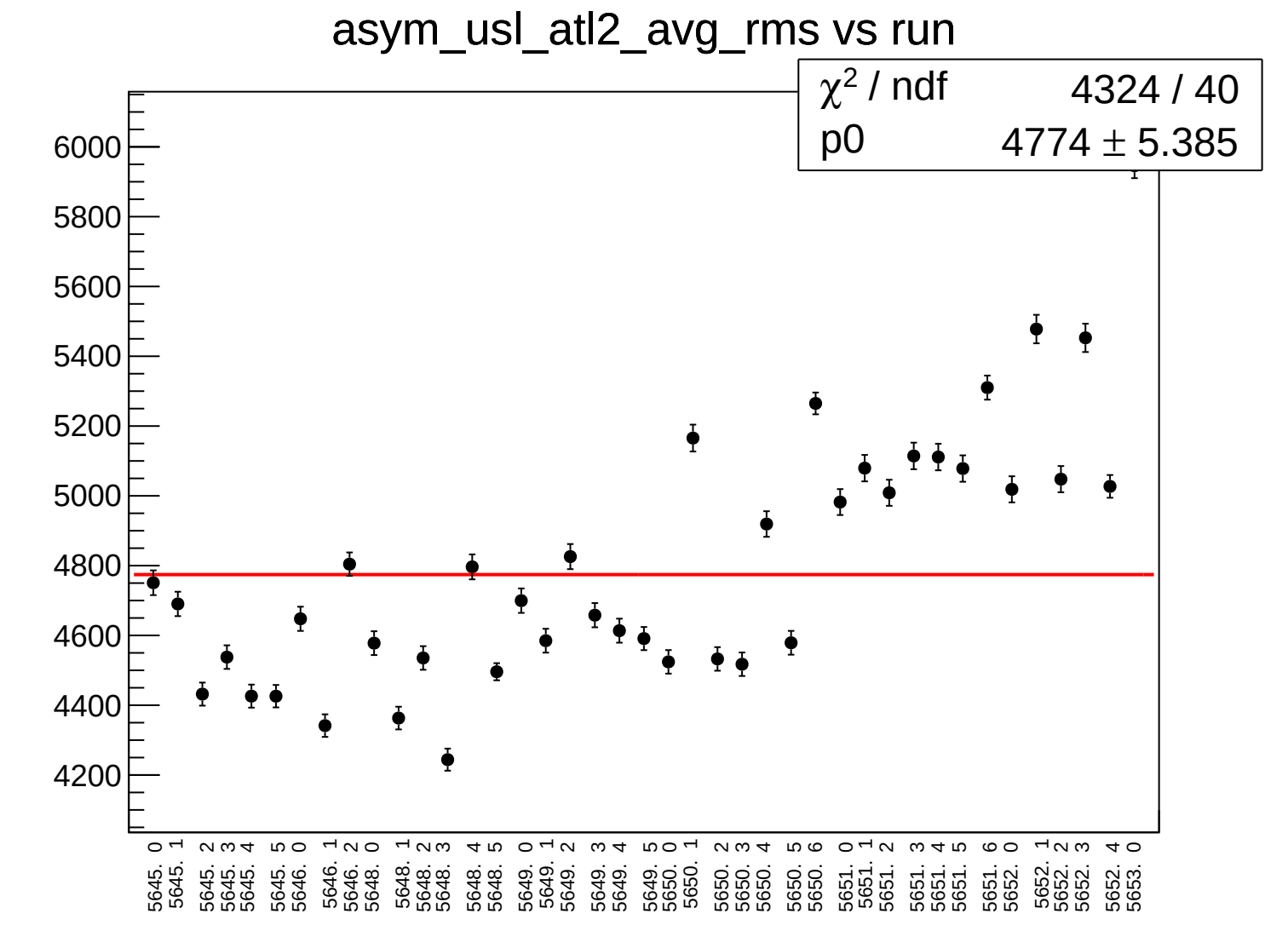
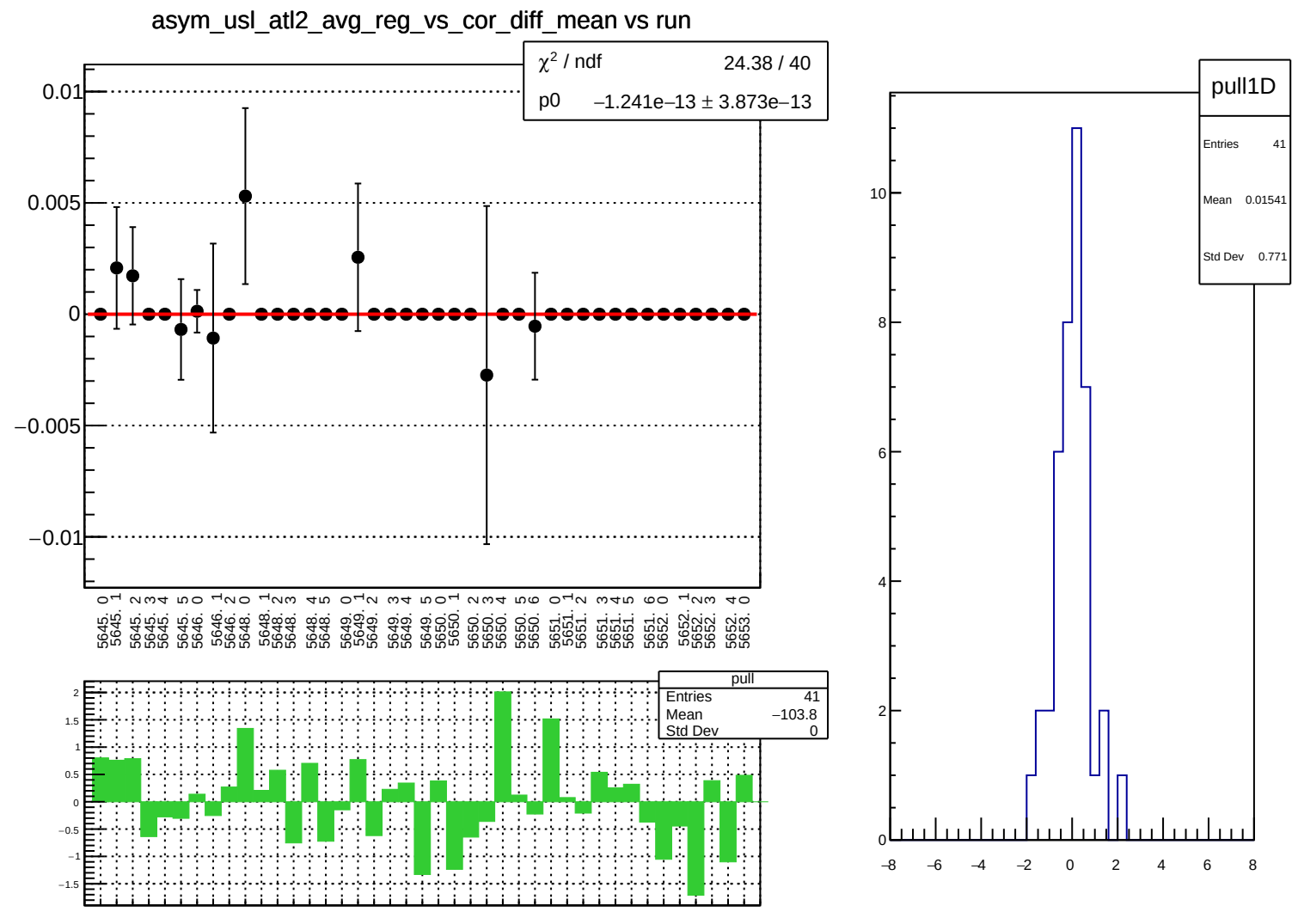
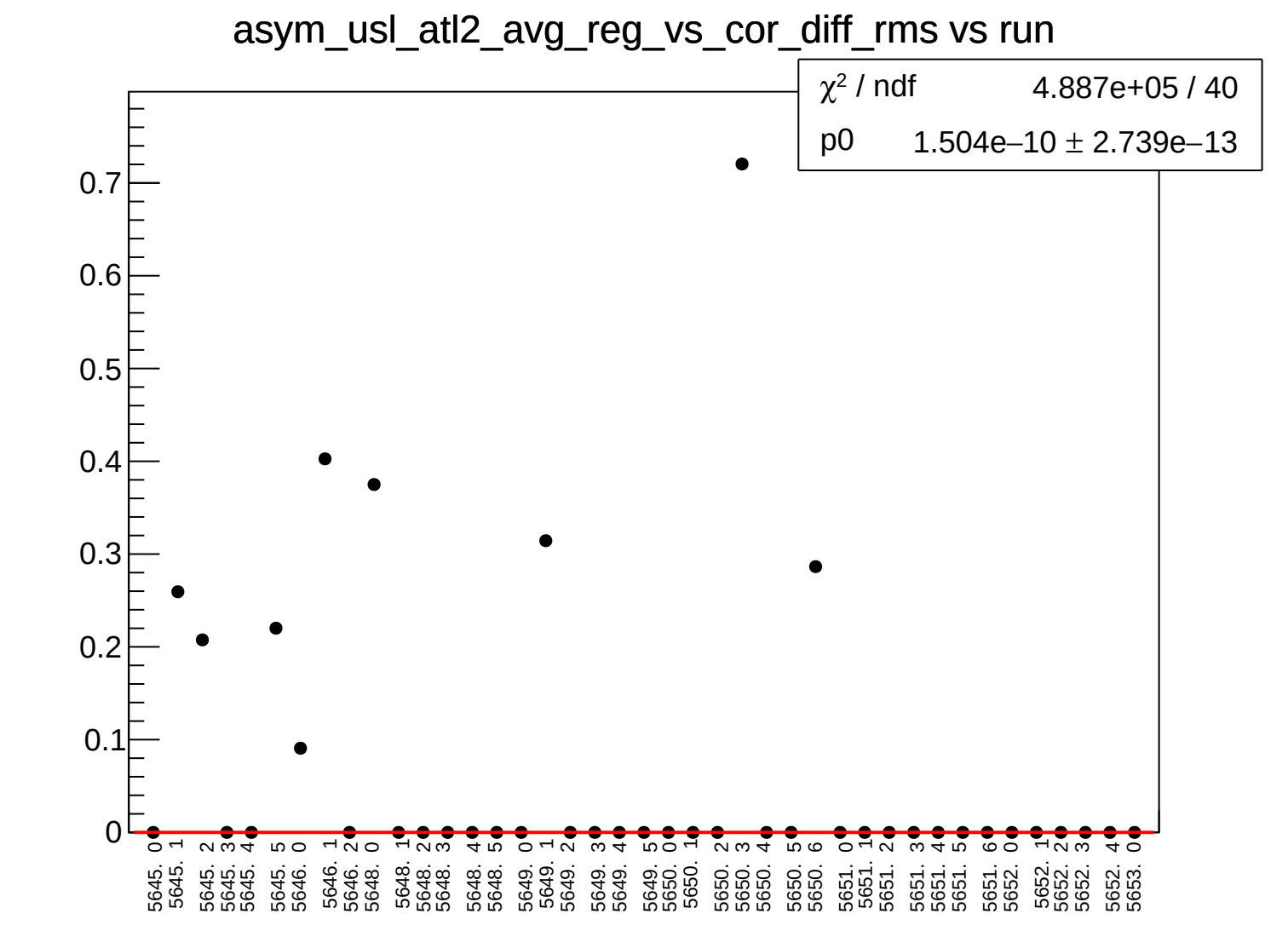
5653. 0

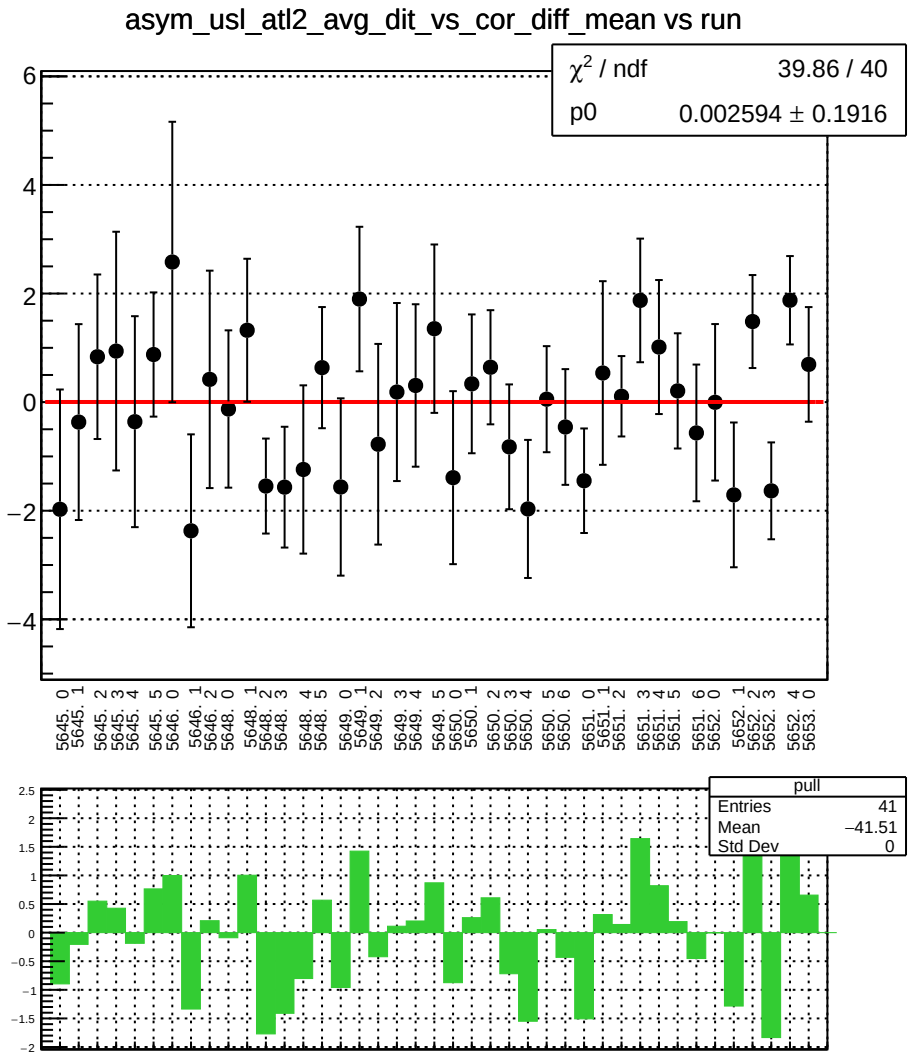

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 44.3 / 40
p0 6622 ± 7616
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 31.49
Std Dev 6.993
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

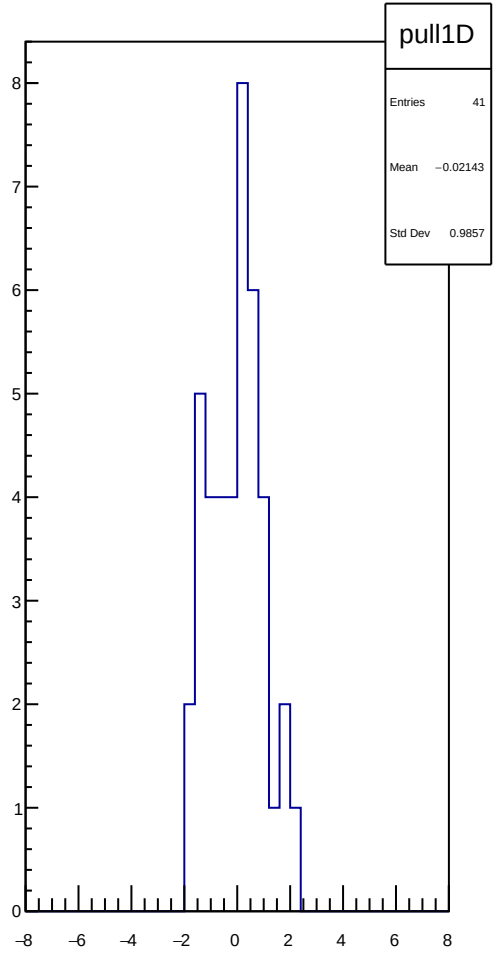

pull1D
Entries 41
Mean −0.02093
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

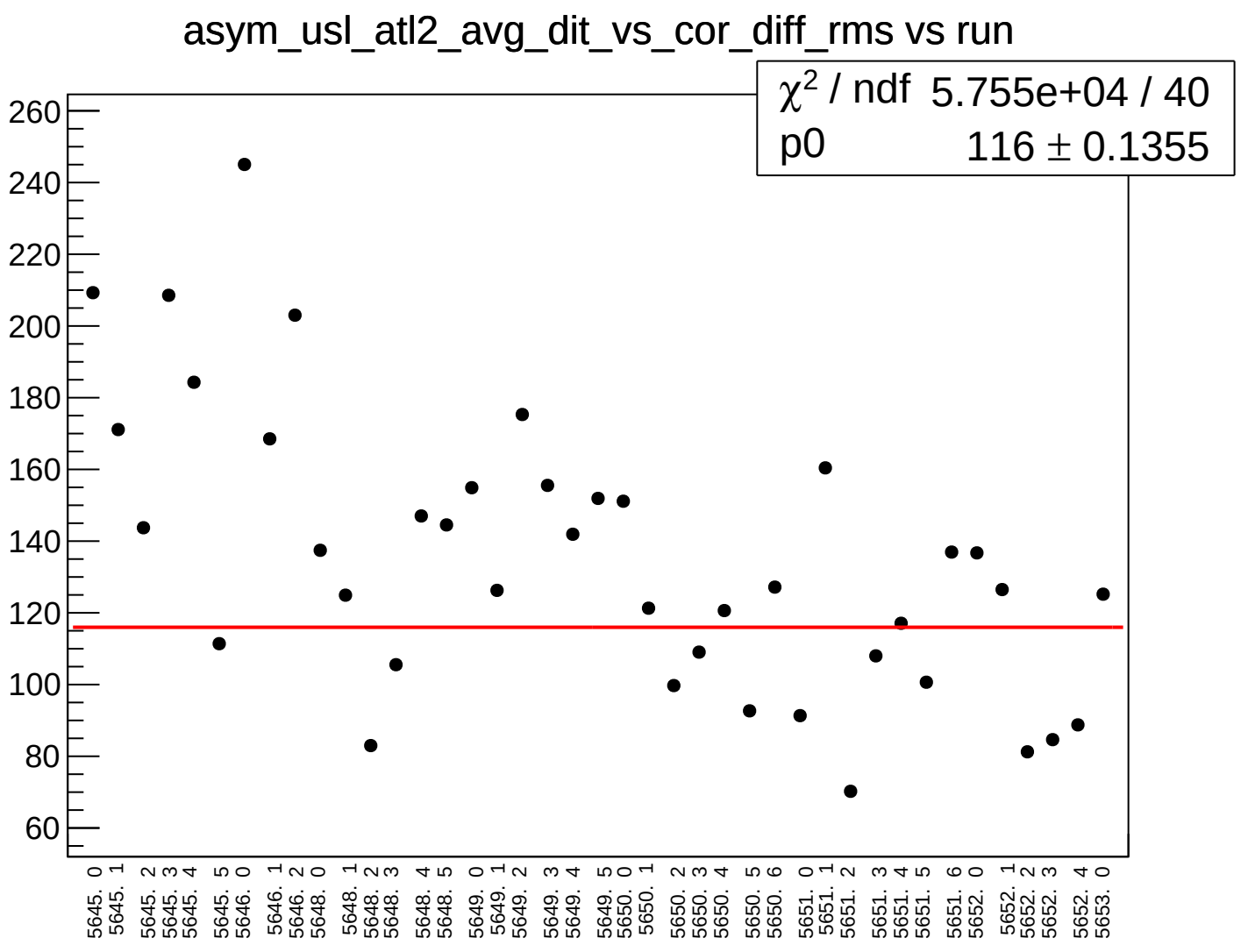

asym_usl_atl2_avg_rms vs run
χ² / ndf 4324 / 40
p0 4774 ± 5.385
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

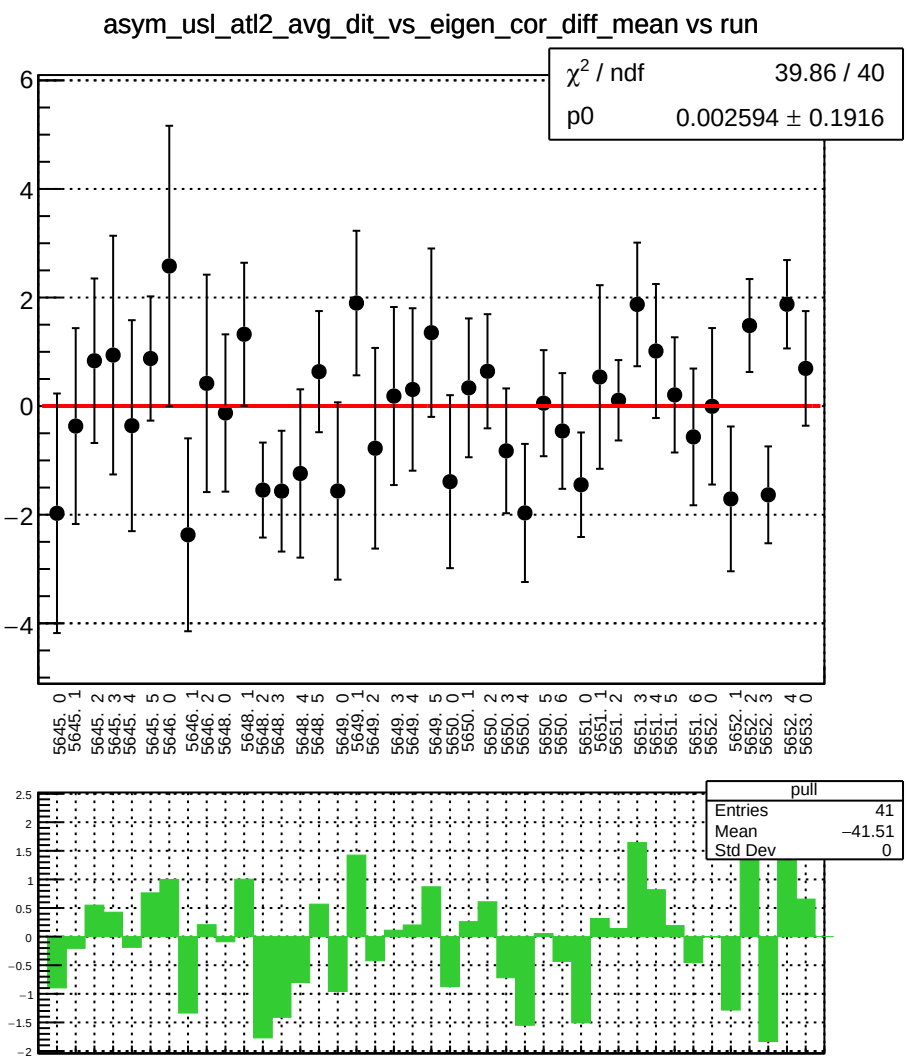

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.38 / 40
p0 −1.241e−13 ± 3.873e−13
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −103.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01541
Std Dev 0.771
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

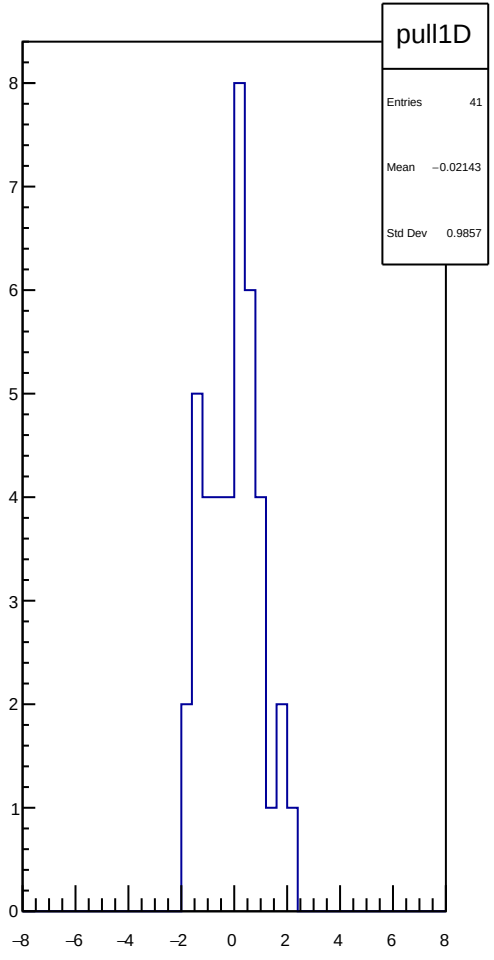

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.887e+05 / 40
p0 1.504e−10 ± 2.739e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

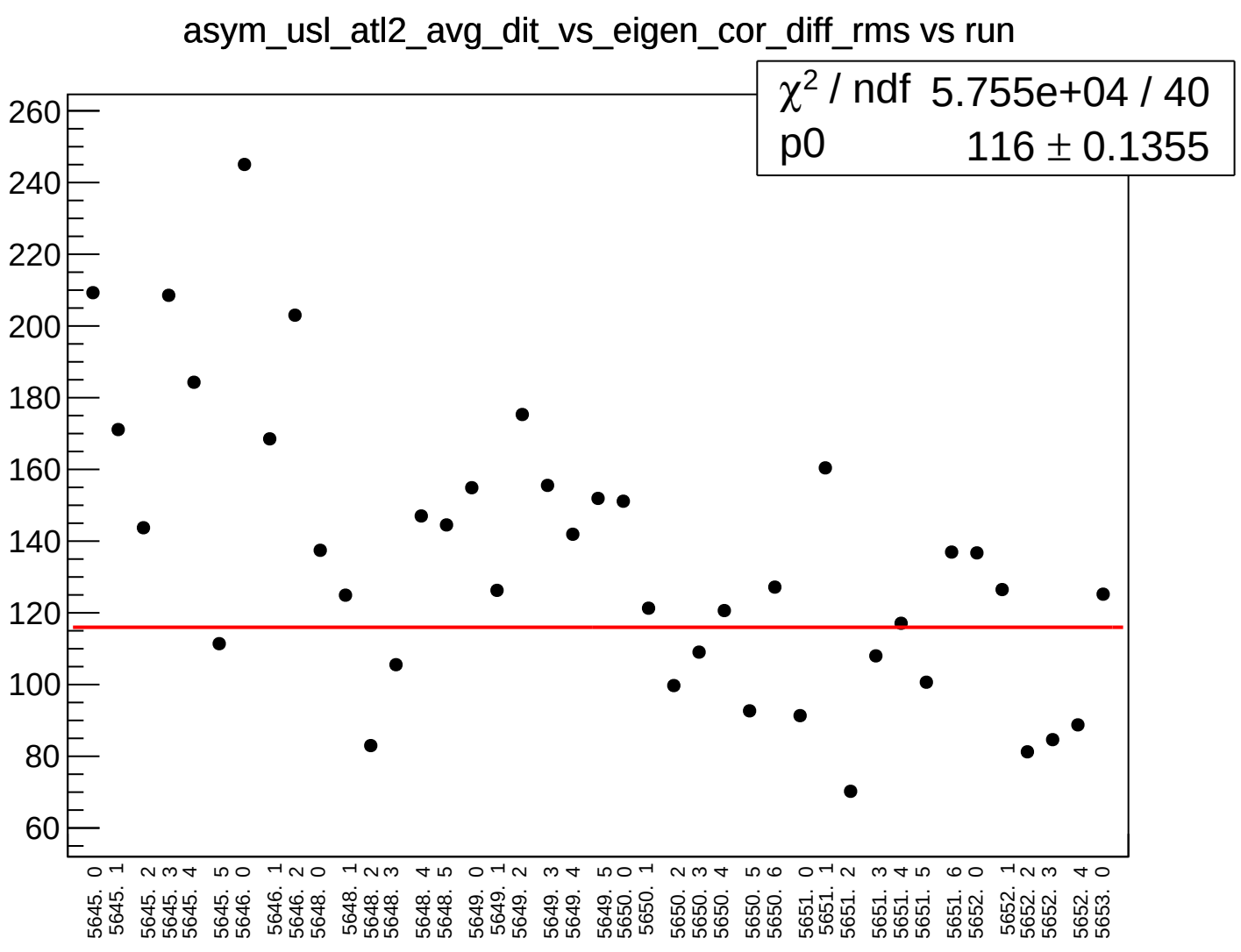

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.86 / 40
p0 0.002594 ± 0.1916
pull
Entries 41
Mean −41.51
Std Dev 0

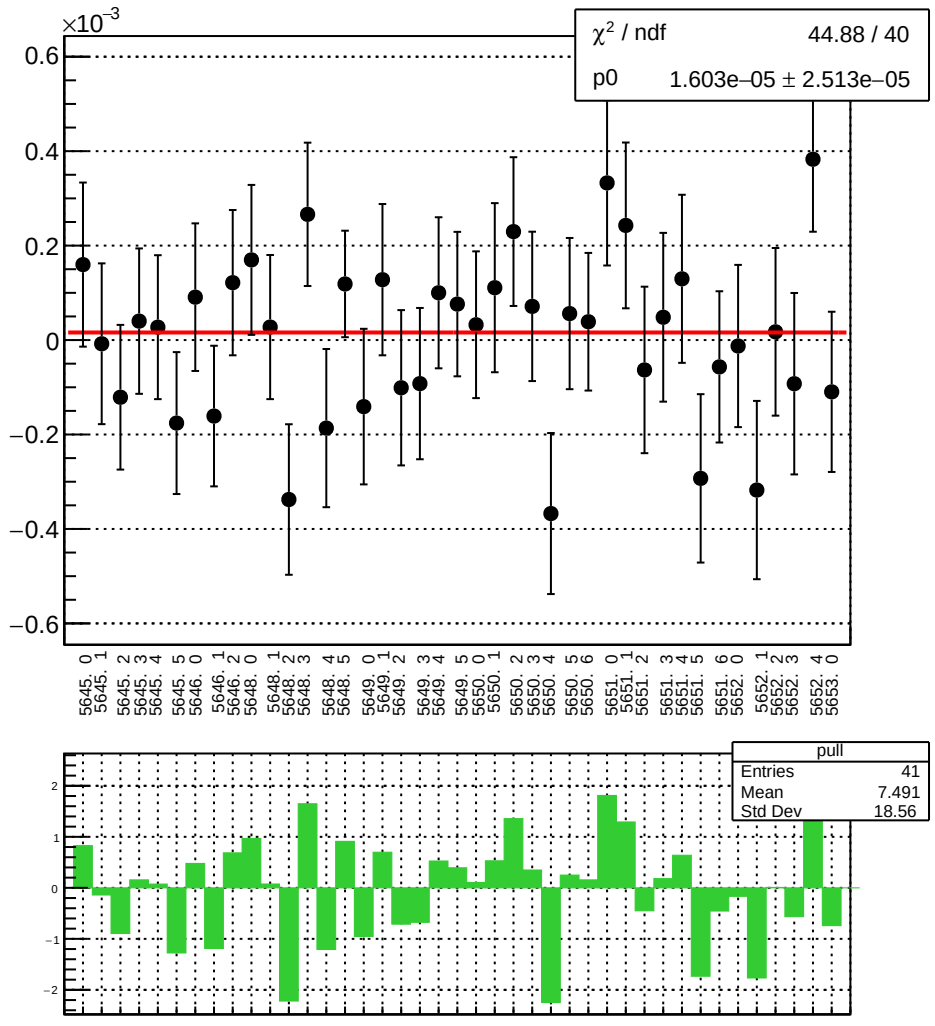

pull1D
Entries 41
Mean −0.02143
Std Dev 0.9857

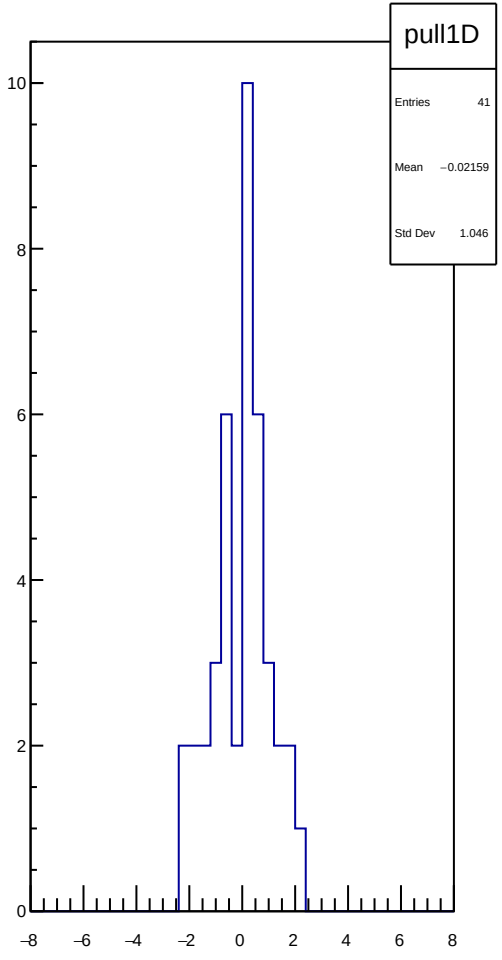

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.755e+04 / 40
p0 116 ± 0.1355
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

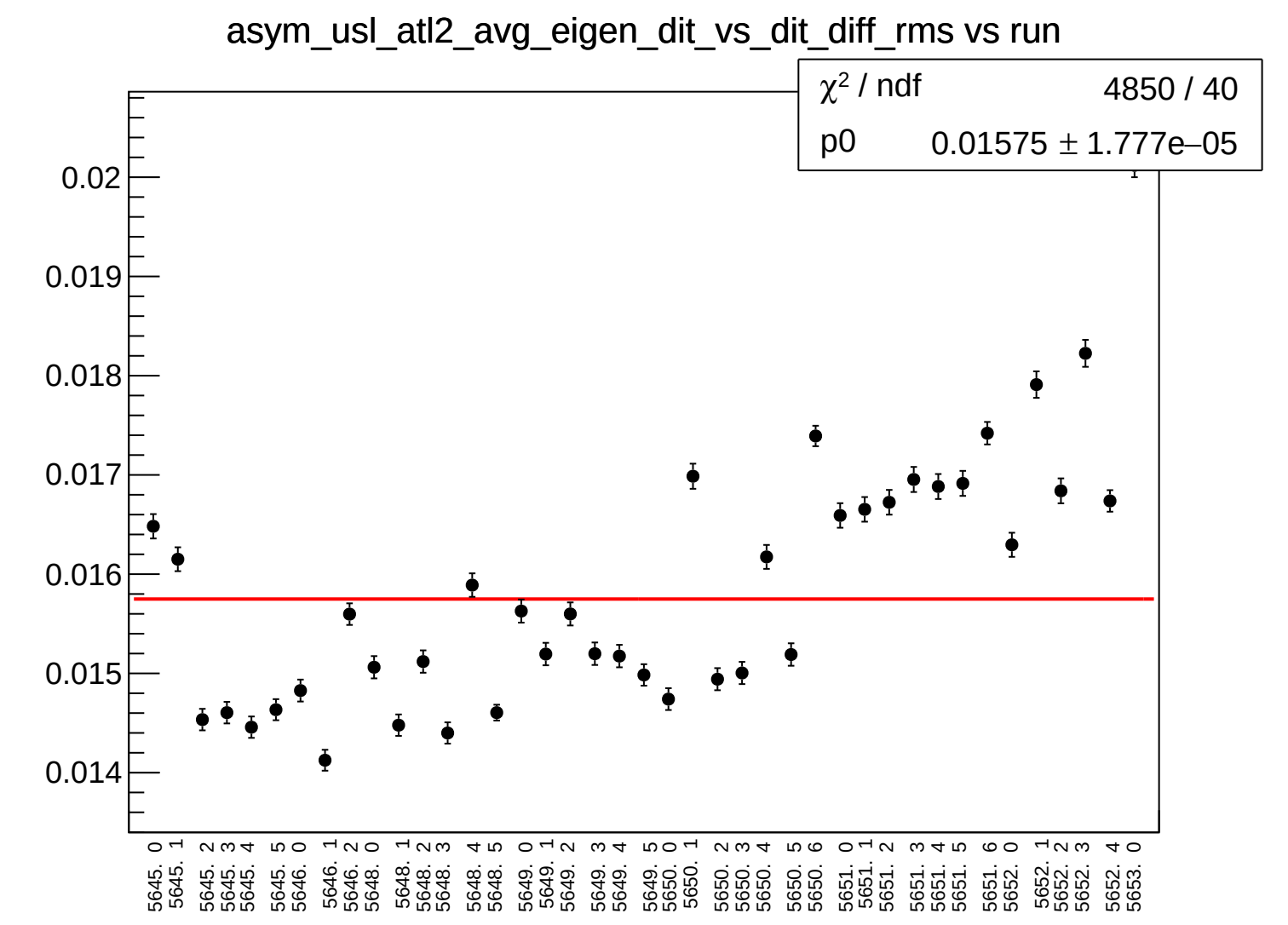

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.86 / 40
p0 0.002594 ± 0.1916
pull
Entries 41
Mean −41.51
Std Dev 0

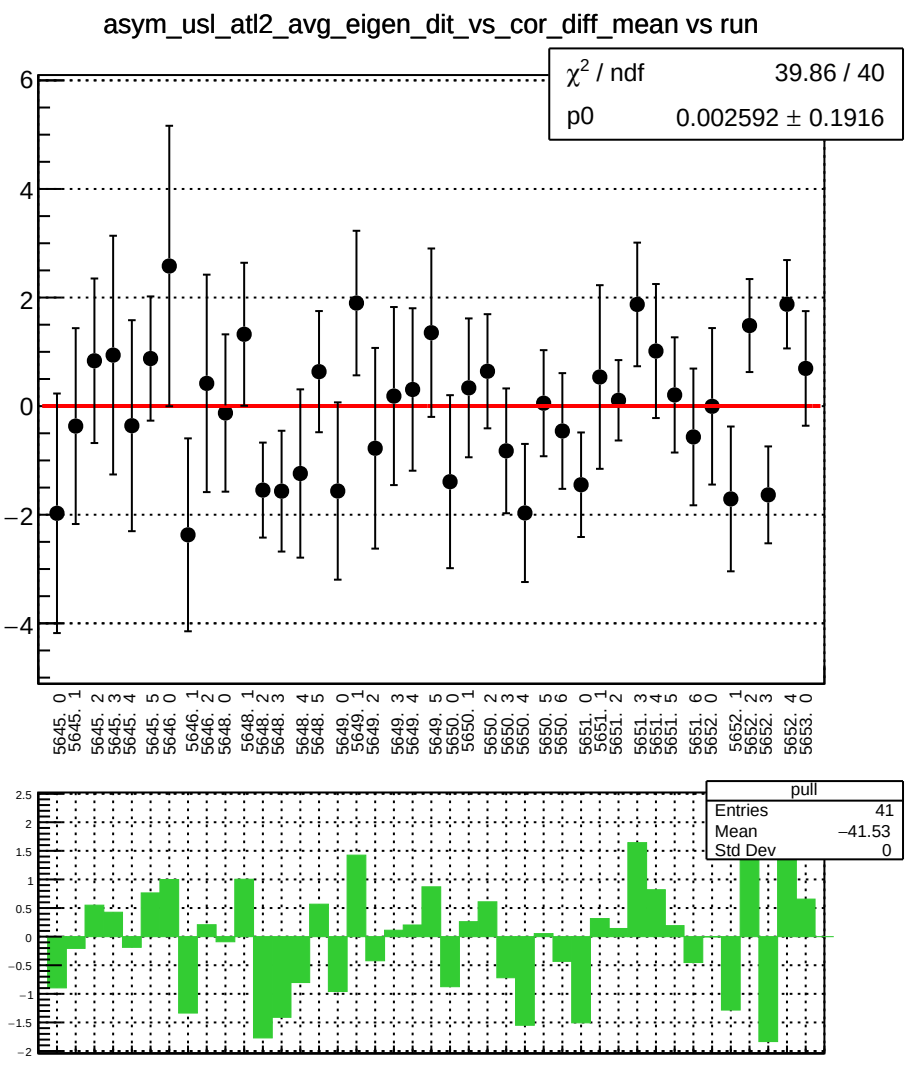

pull1D
Entries 41
Mean −0.02143
Std Dev 0.9857

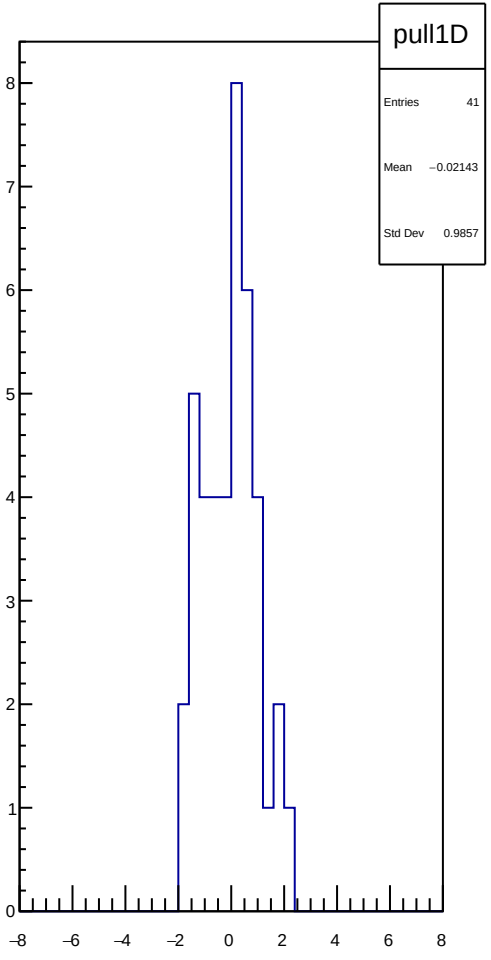

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.755e+04 / 40
p0 116 ± 0.1355
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

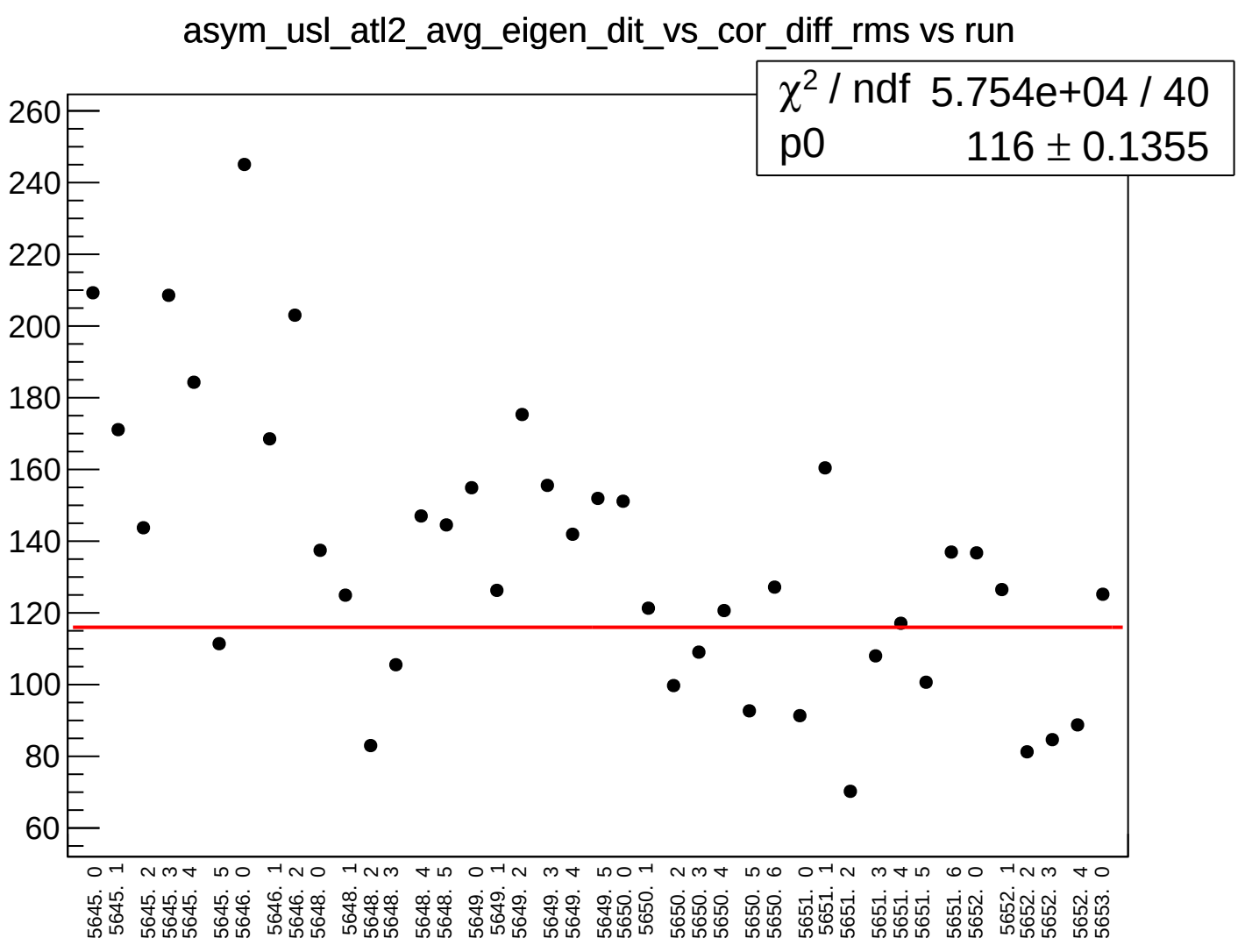

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.88 / 40
p0 1.603e−05 ± 2.513e−05
pull
Entries 41
Mean 7.491
Std Dev 18.56

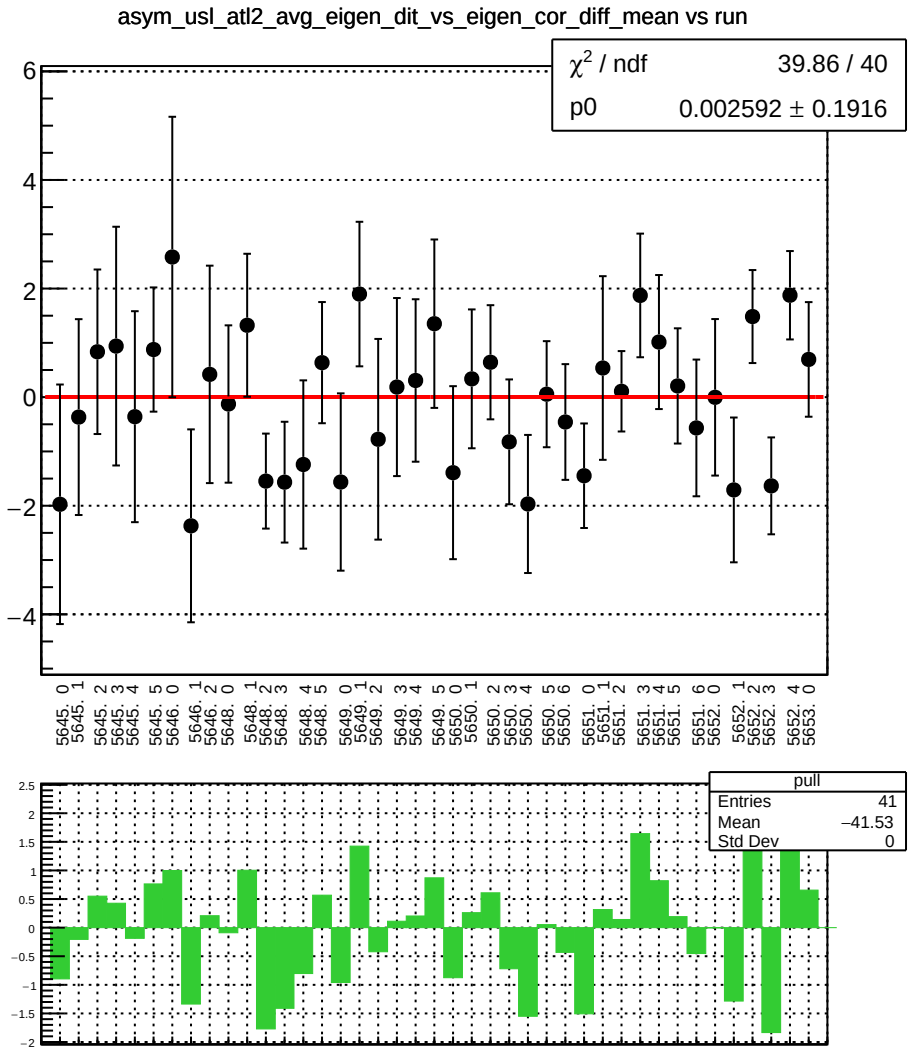

pull1D
Entries 41
Mean −0.02159
Std Dev 1.046

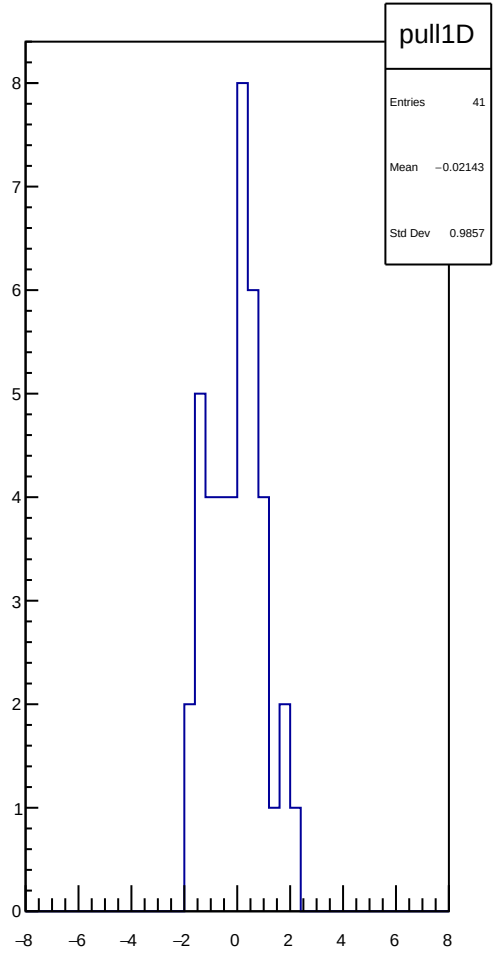

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4850 / 40
p0 0.01575 ± 1.777e–05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

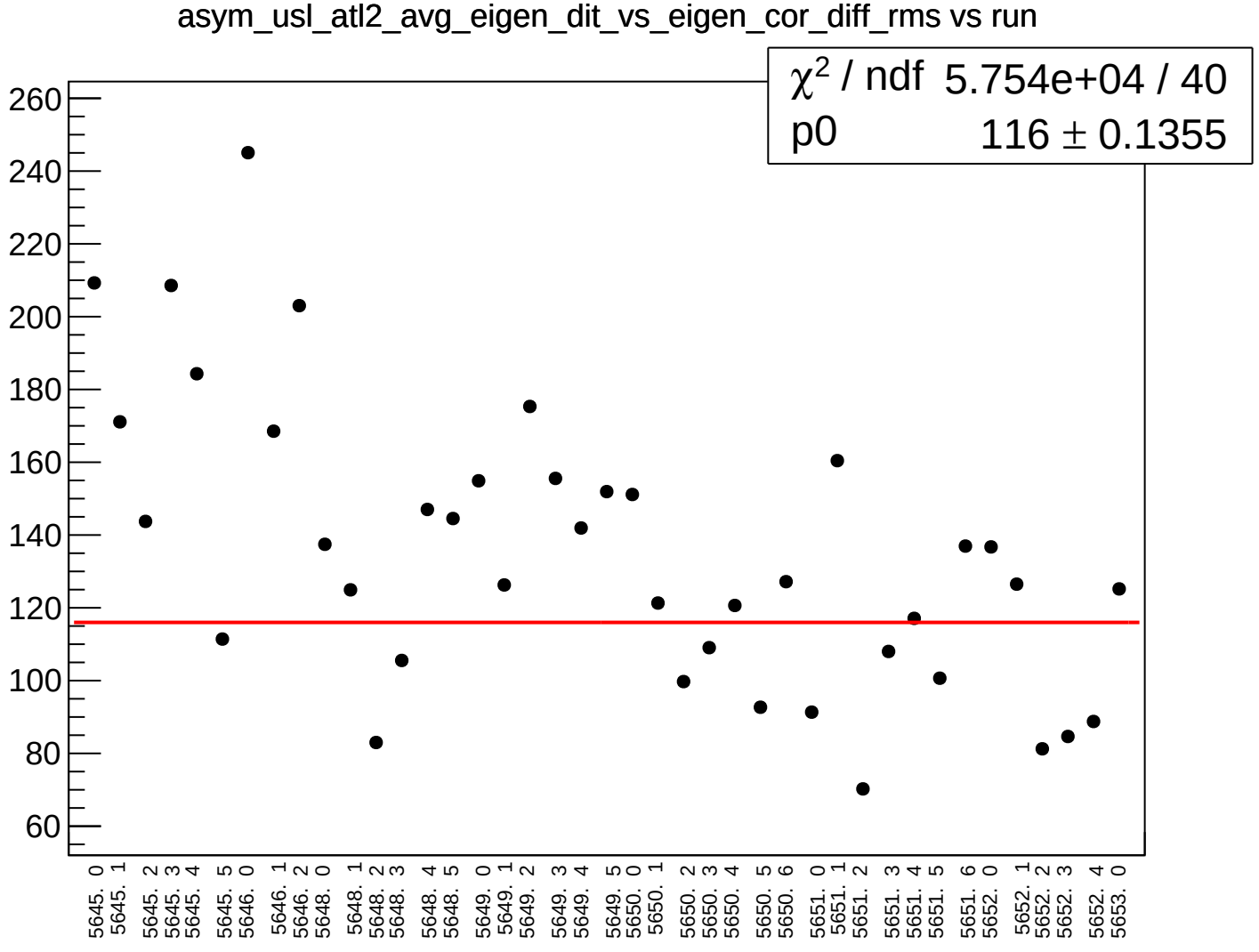

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.86 / 40
p0 0.002592 ± 0.1916
pull
Entries 41
Mean −41.53
Std Dev 0

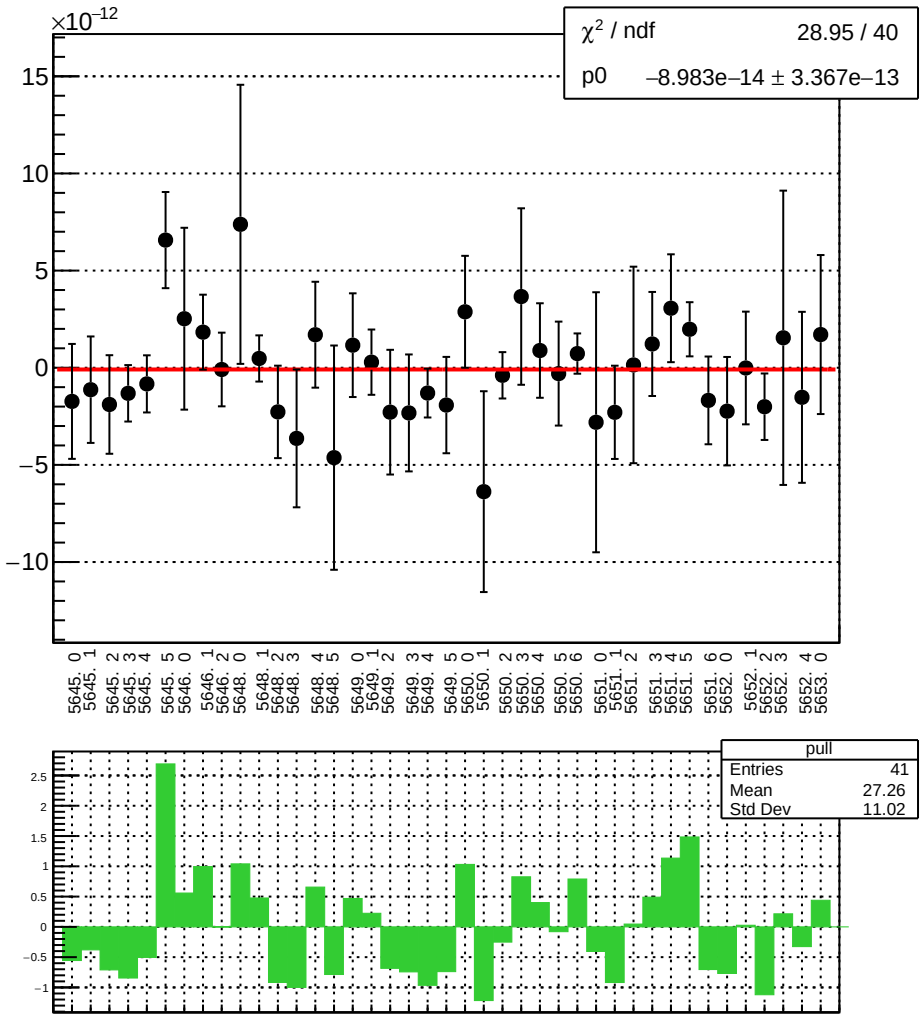

pull1D
Entries 41
Mean −0.02143
Std Dev 0.9857

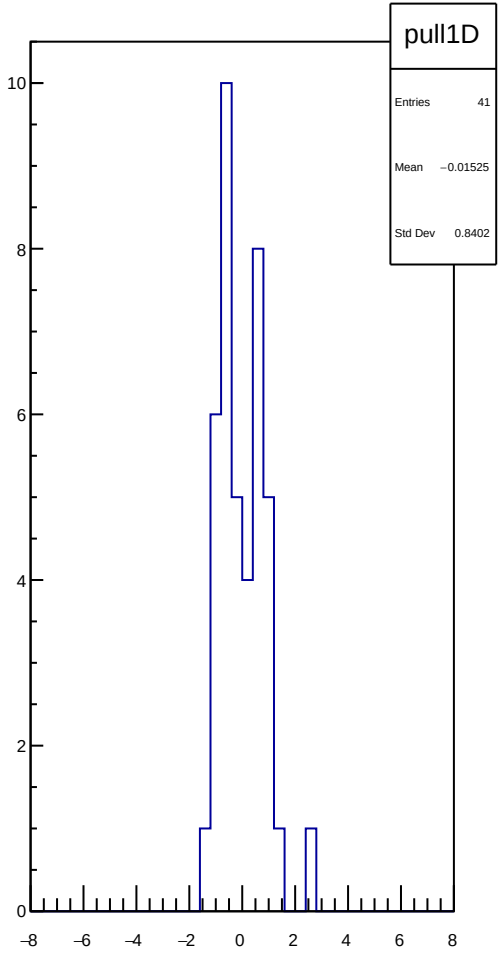

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.754e+04 / 40
p0 116 ± 0.1355
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

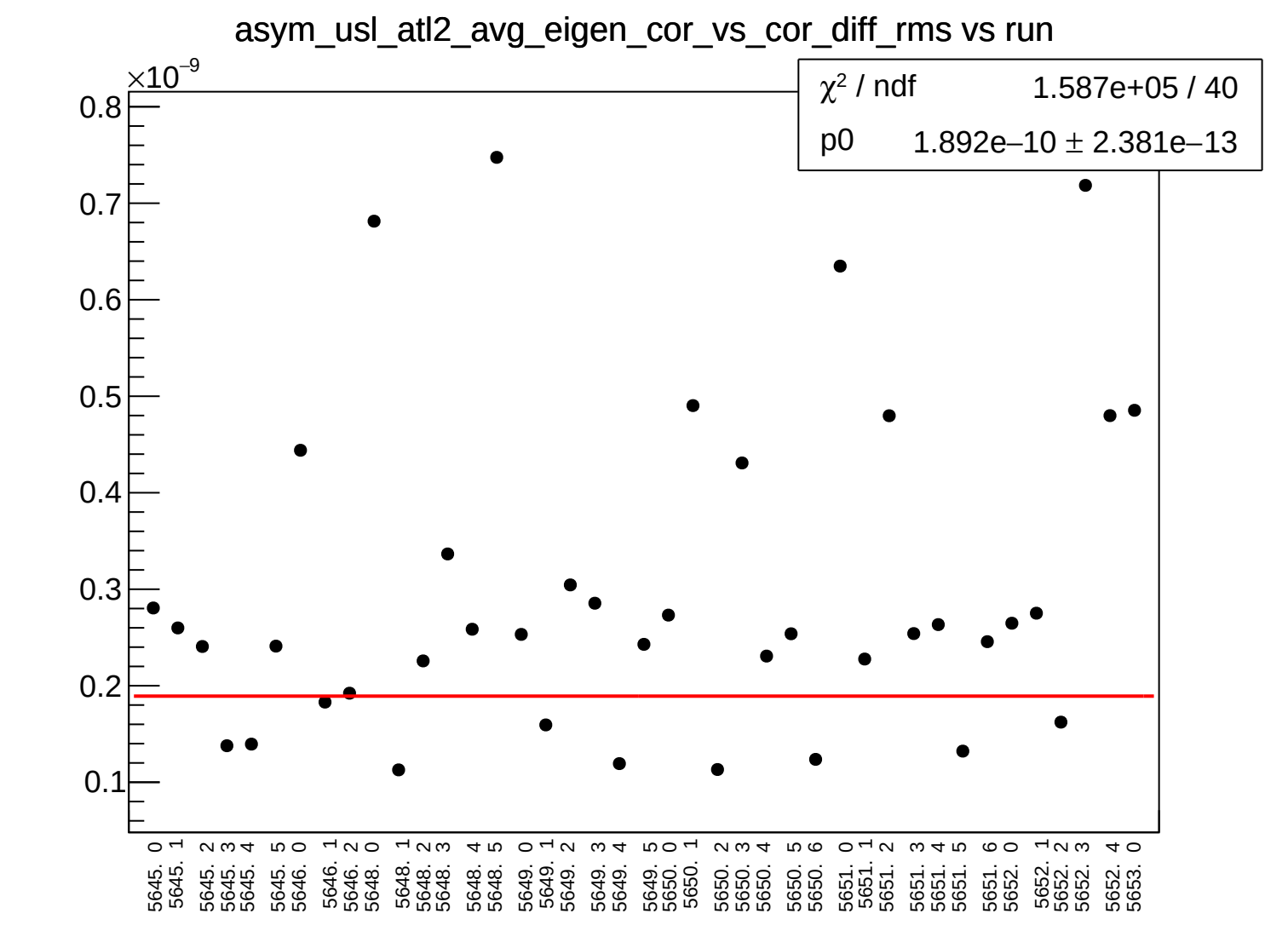

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.86 / 40
p0 0.002592 ± 0.1916
pull
Entries 41
Mean −41.53
Std Dev 0

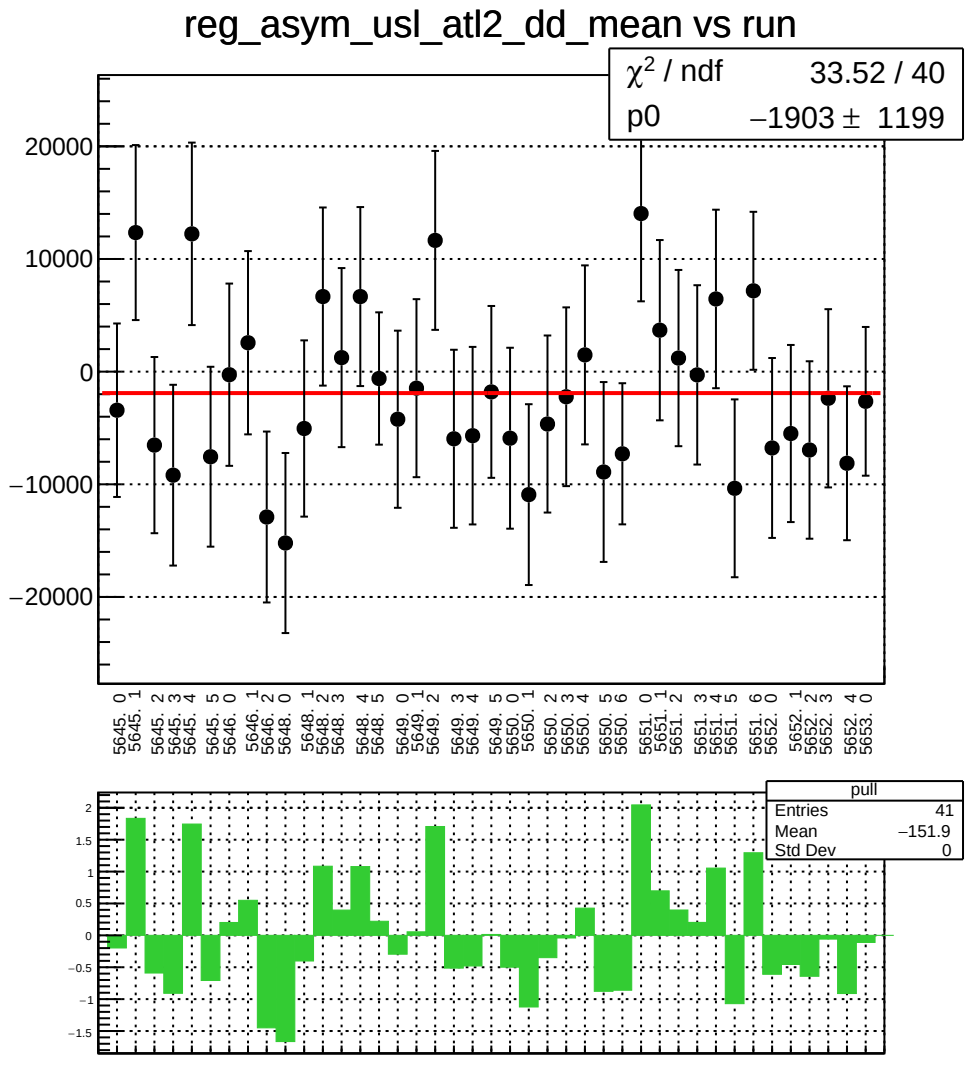

pull1D
Entries 41
Mean −0.02143
Std Dev 0.9857

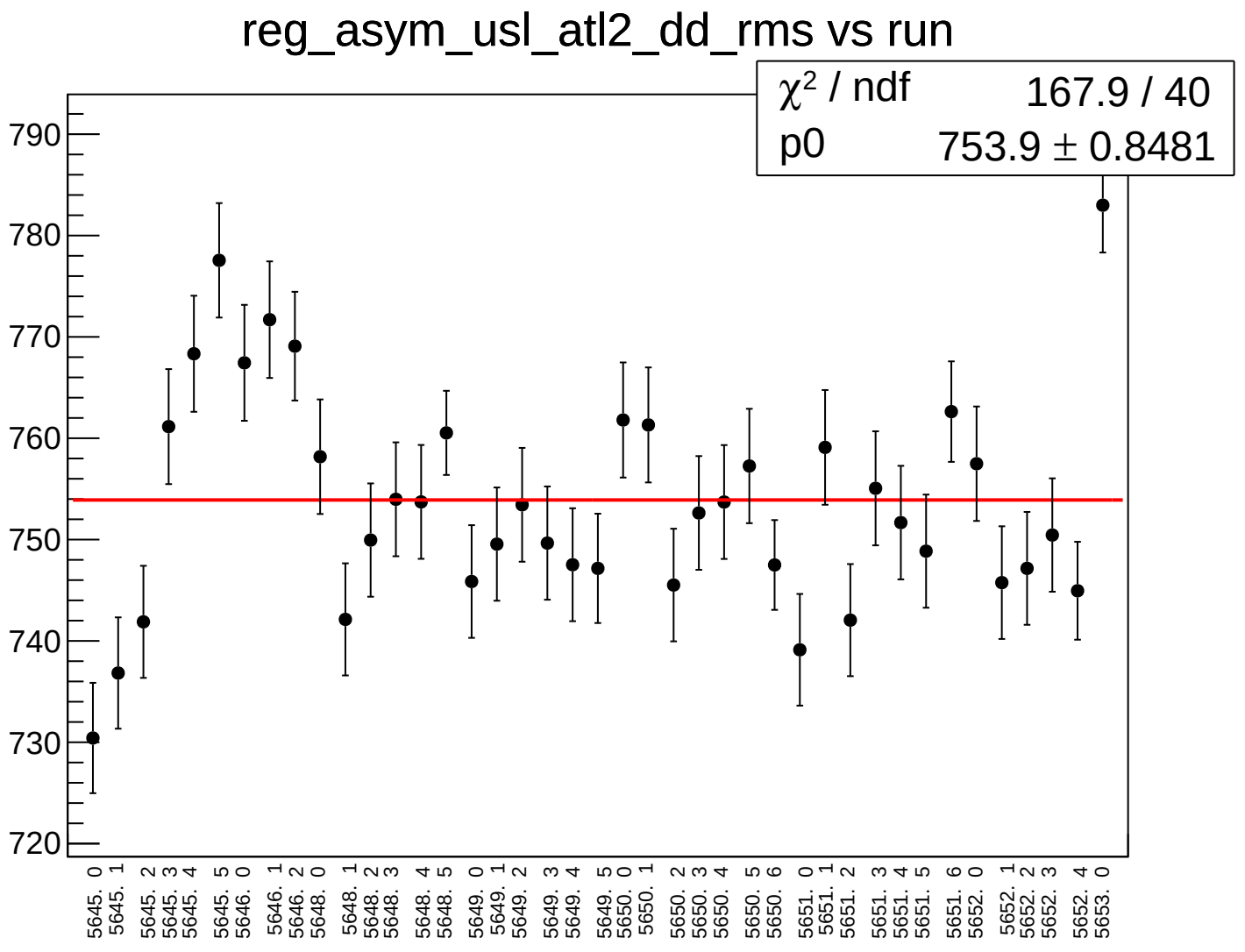

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.754e+04 / 40
p0 116 ± 0.1355
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

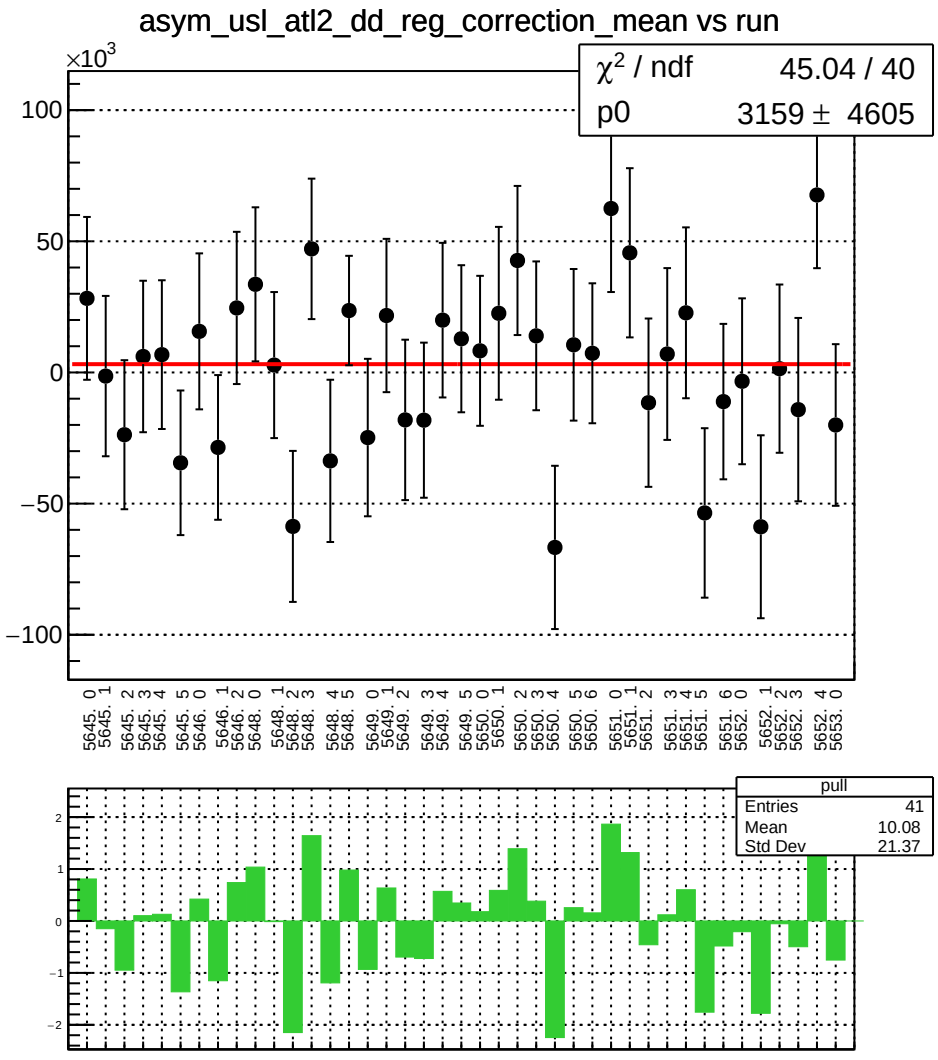

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.95 / 40
p0 −8.983e−14 ± 3.367e−13
pull
Entries 41
Mean 27.26
Std Dev 11.02

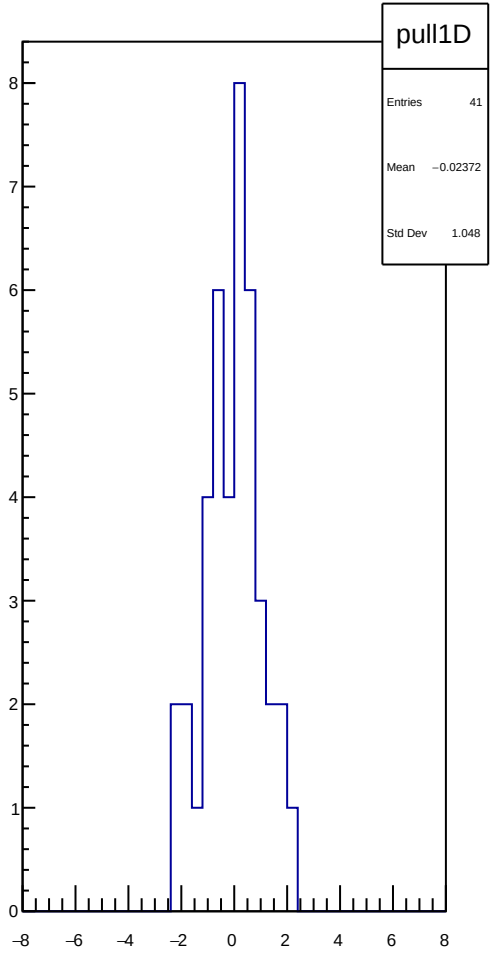

pull1D
Entries 41
Mean −0.01525
Std Dev 0.8402


asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.587e+05 / 40
p0 1.892e−10 ± 2.381e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 33.52 / 40
p0 −1903 ± 1199
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −151.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.004509
Std Dev 0.9041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 167.9 / 40
p0 753.9 ± 0.8481
790
780
770
760
750
740
730
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 45.04 / 40
p0 3159 ± 4605
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.08
Std Dev 21.37
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.02372
Std Dev 1.048
8
7
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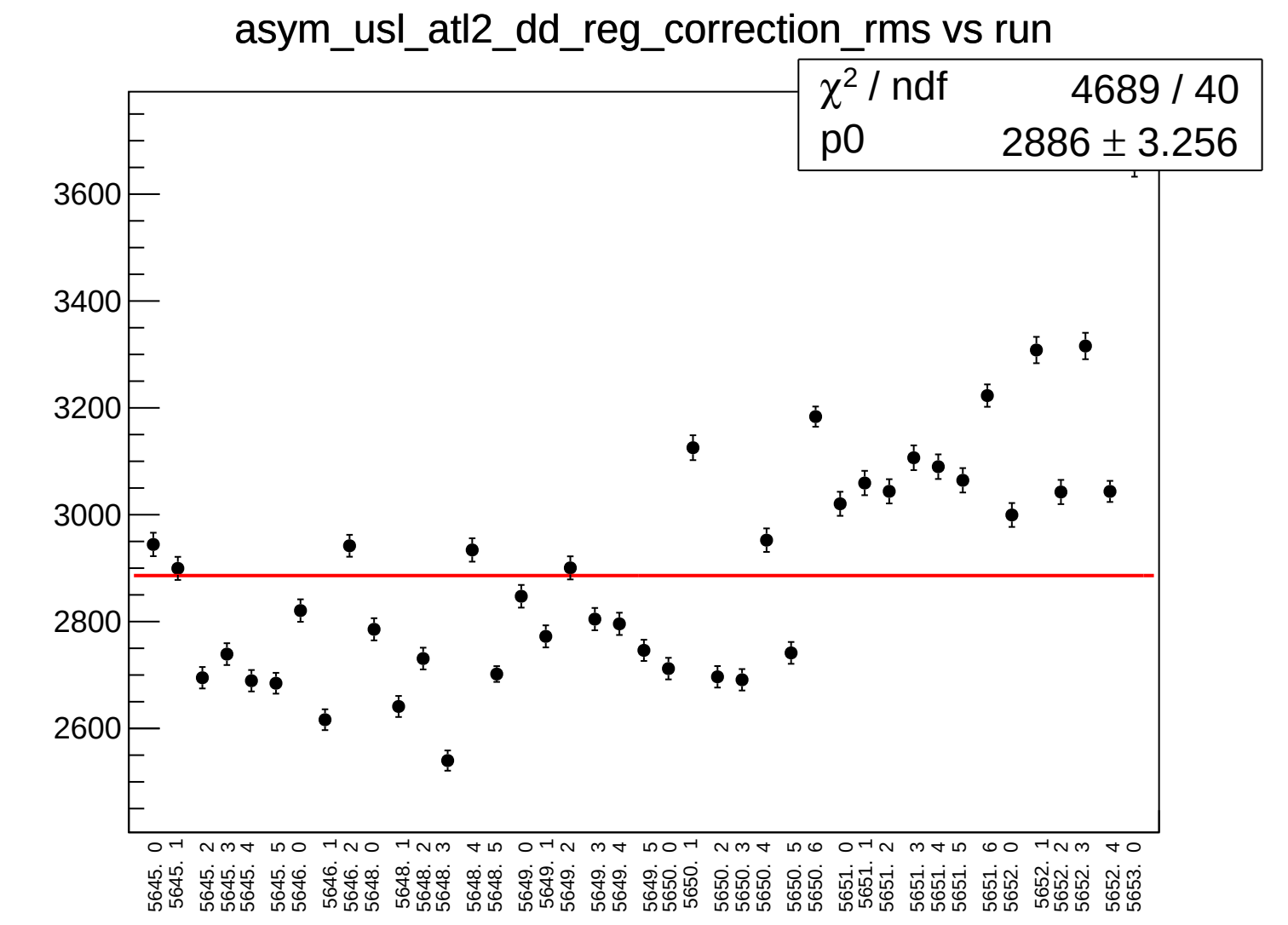
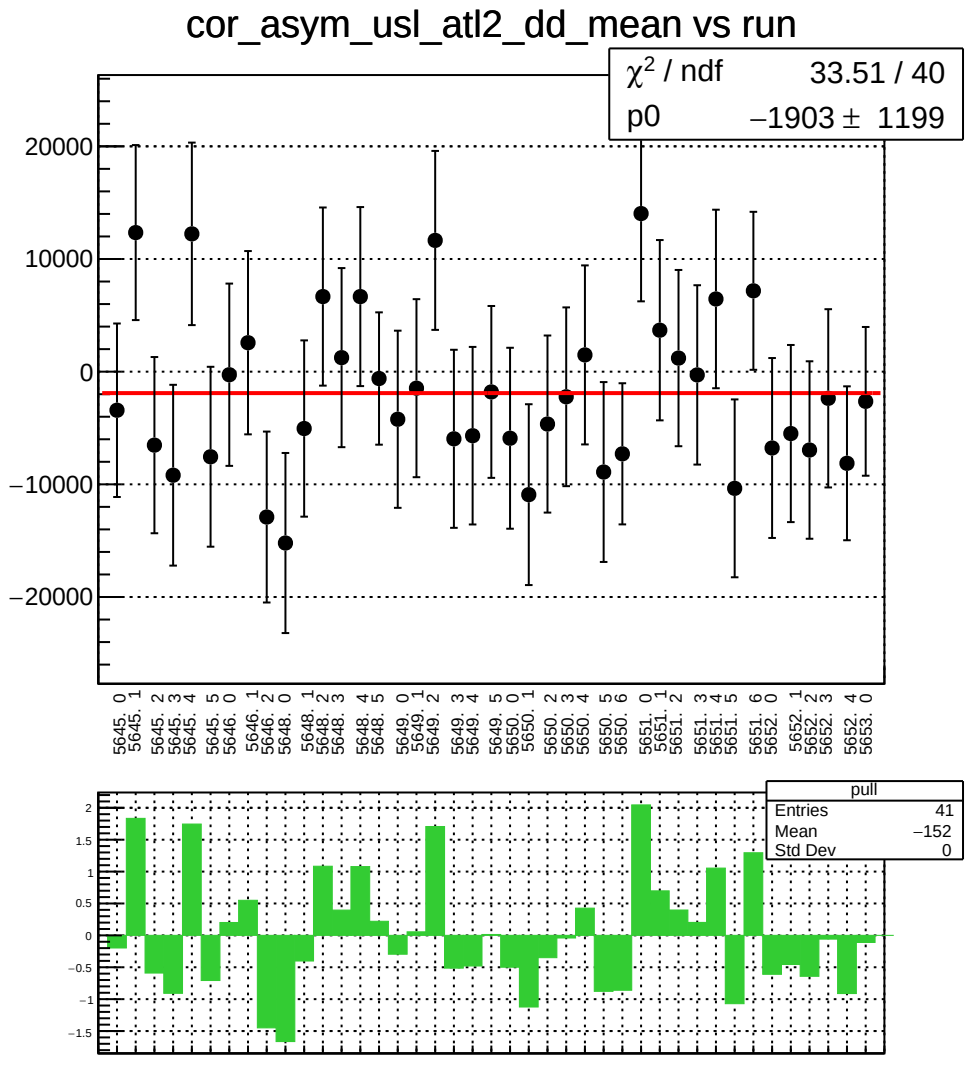
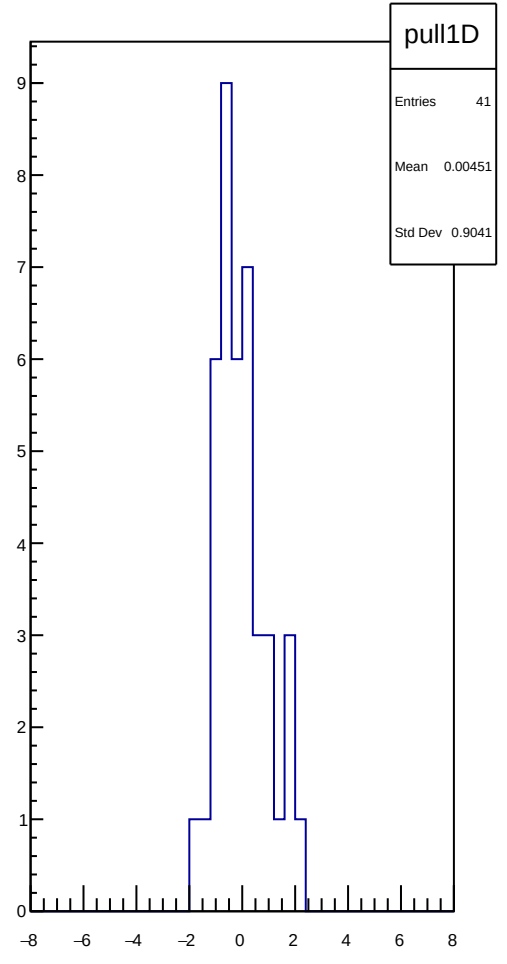
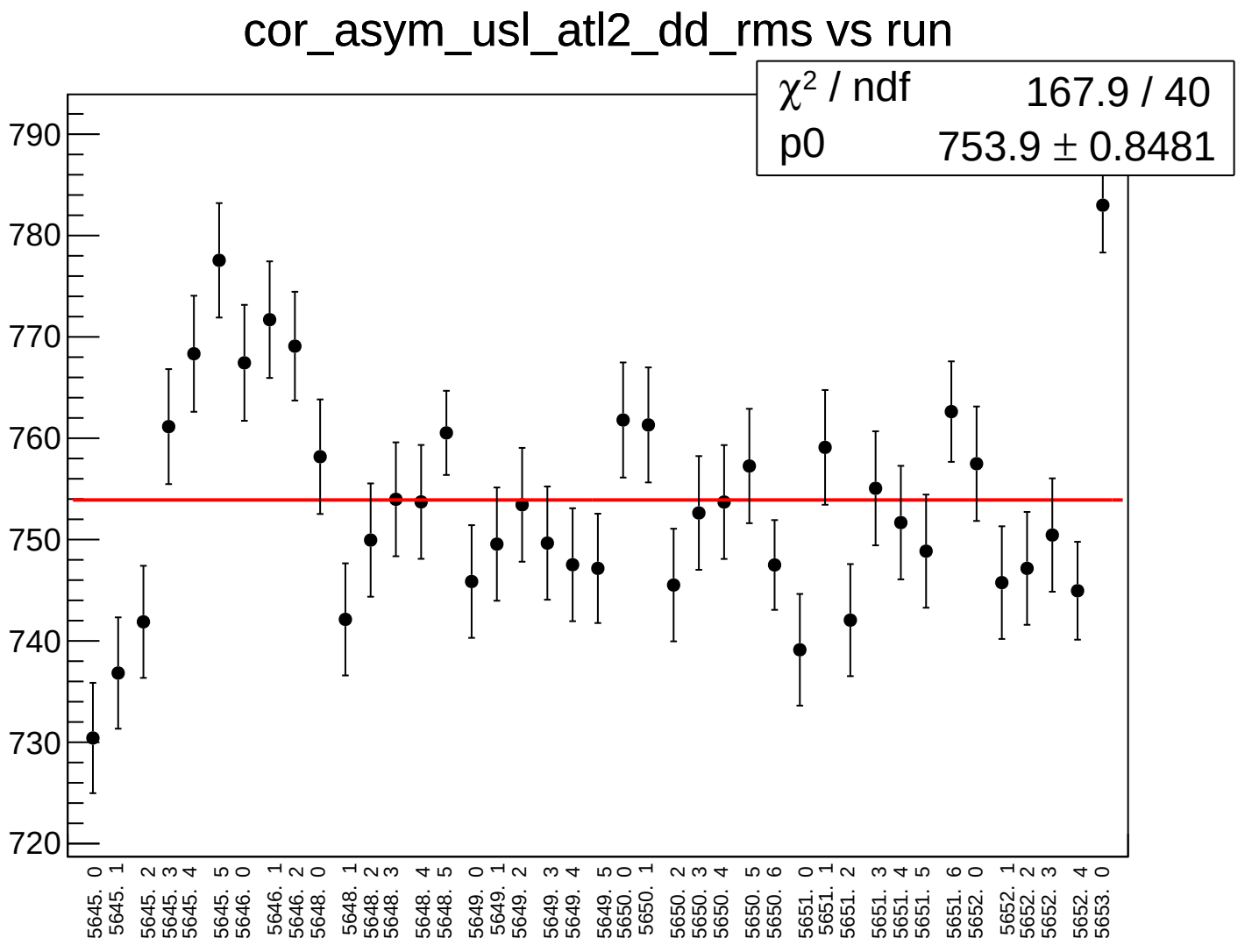
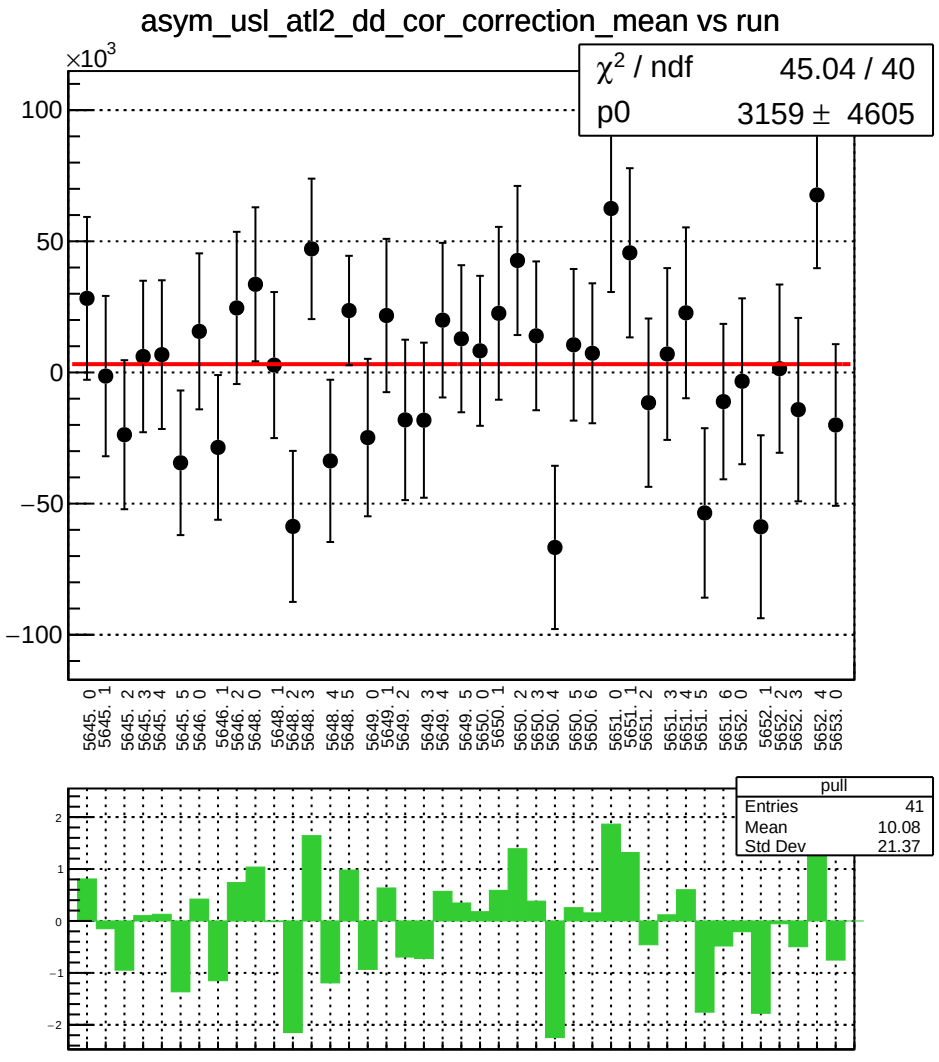
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

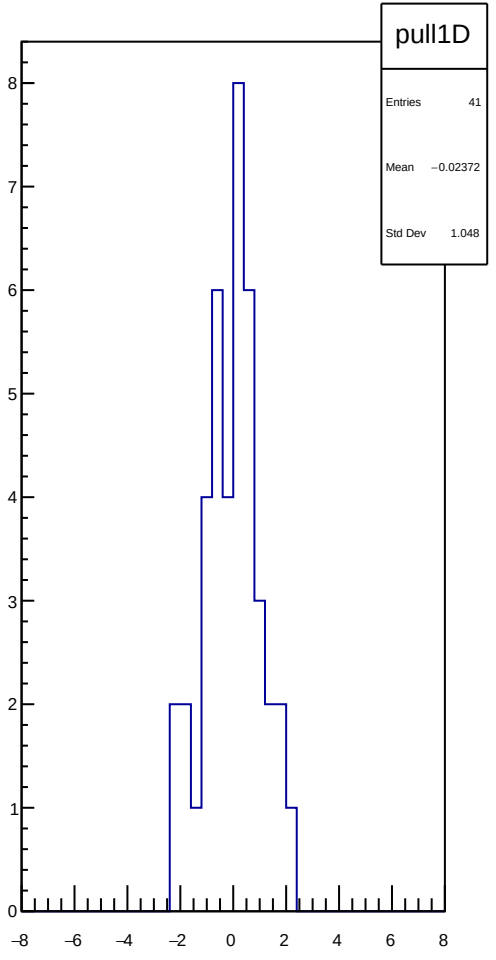

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 4689 / 40
p0 2886 ± 3.256
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

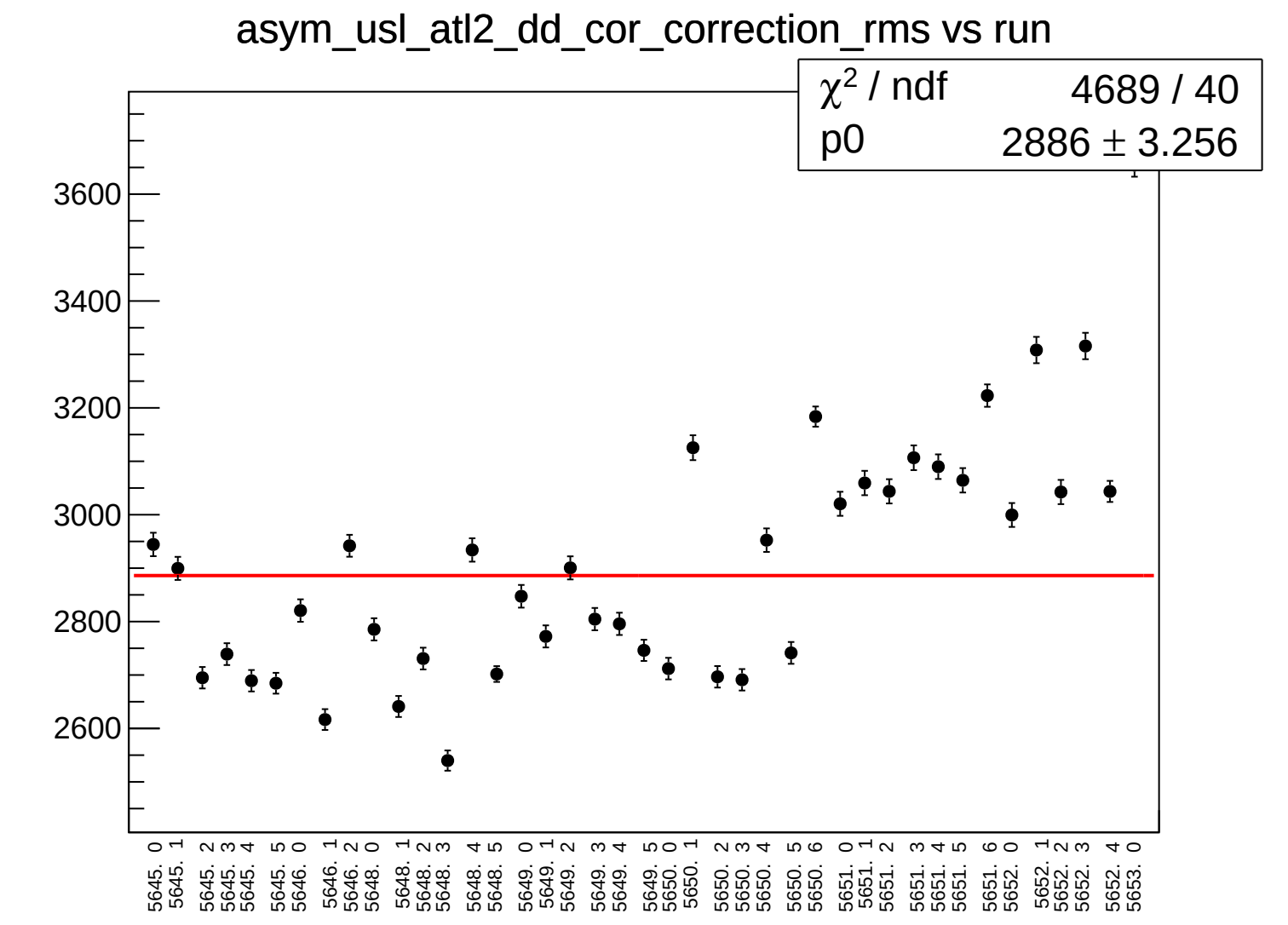

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 33.51 / 40
p0 −1903 ± 1199
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

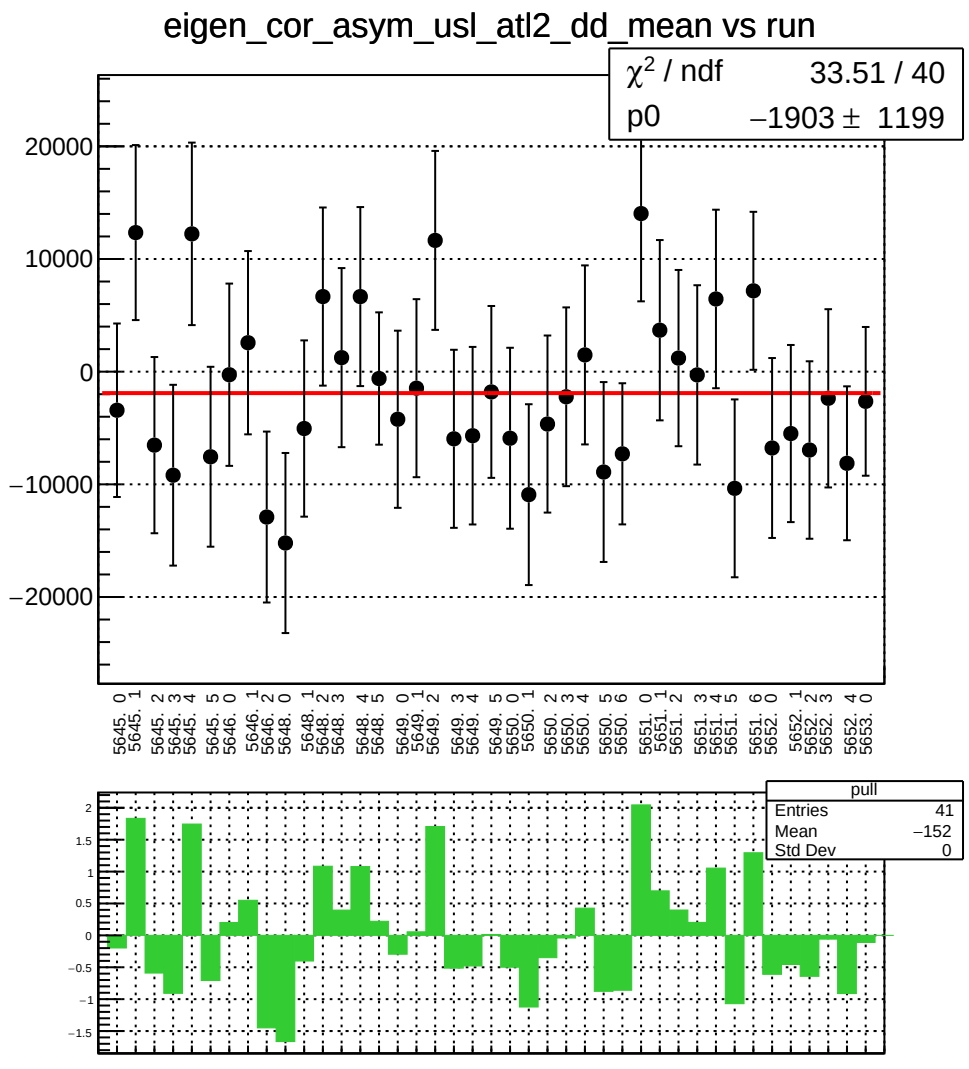

pull1D
Entries 41
Mean 0.00451
Std Dev 0.9041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

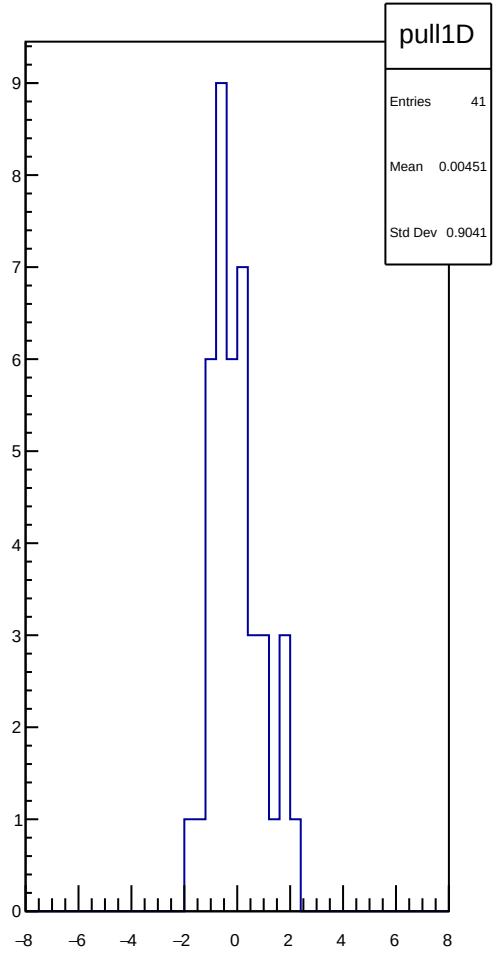

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 167.9 / 40
p0 753.9 ± 0.8481
790
780
770
760
750
740
730
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

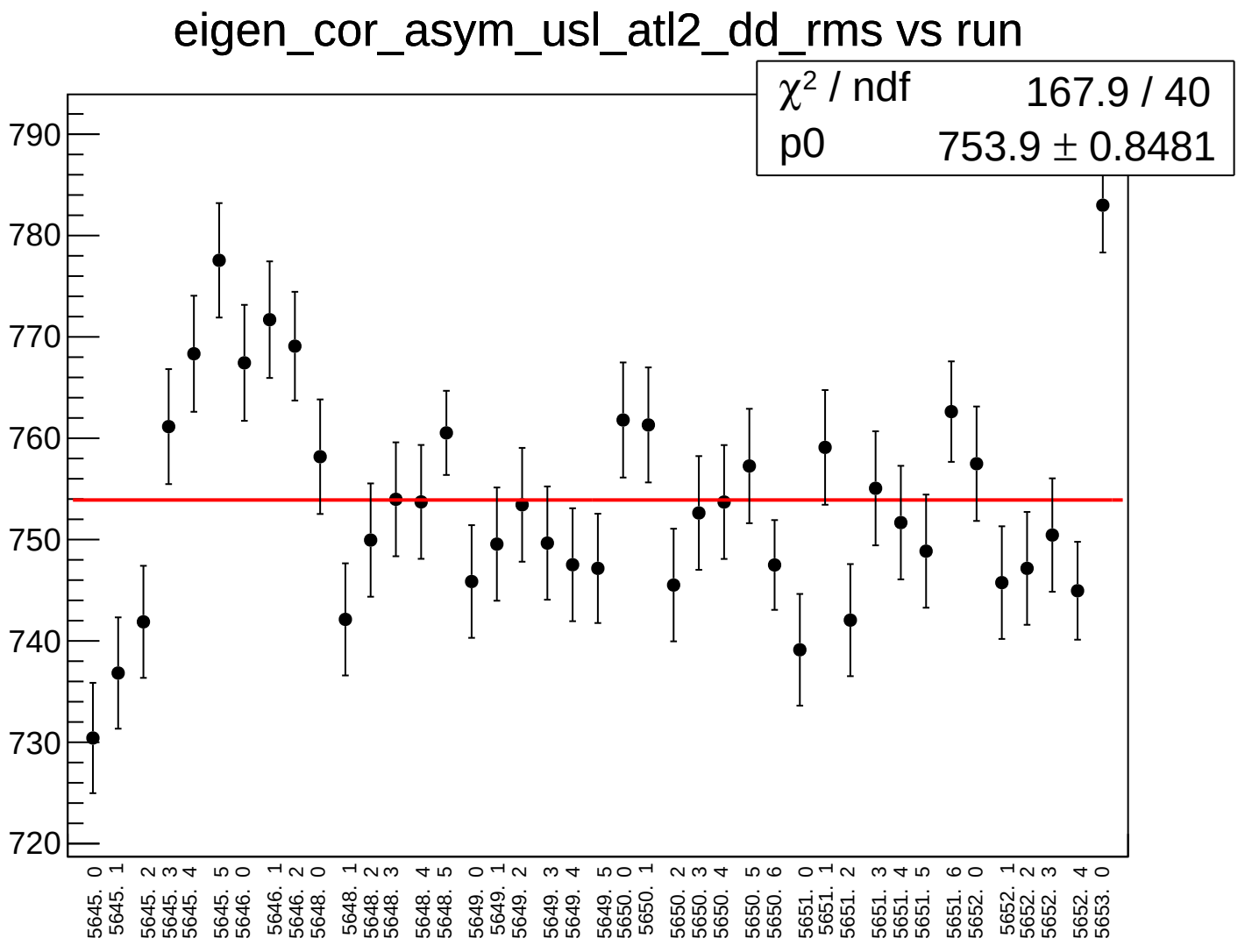

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 45.04 / 40
p0 3159 ± 4605
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.08
Std Dev 21.37
2
1
0
−1
−2

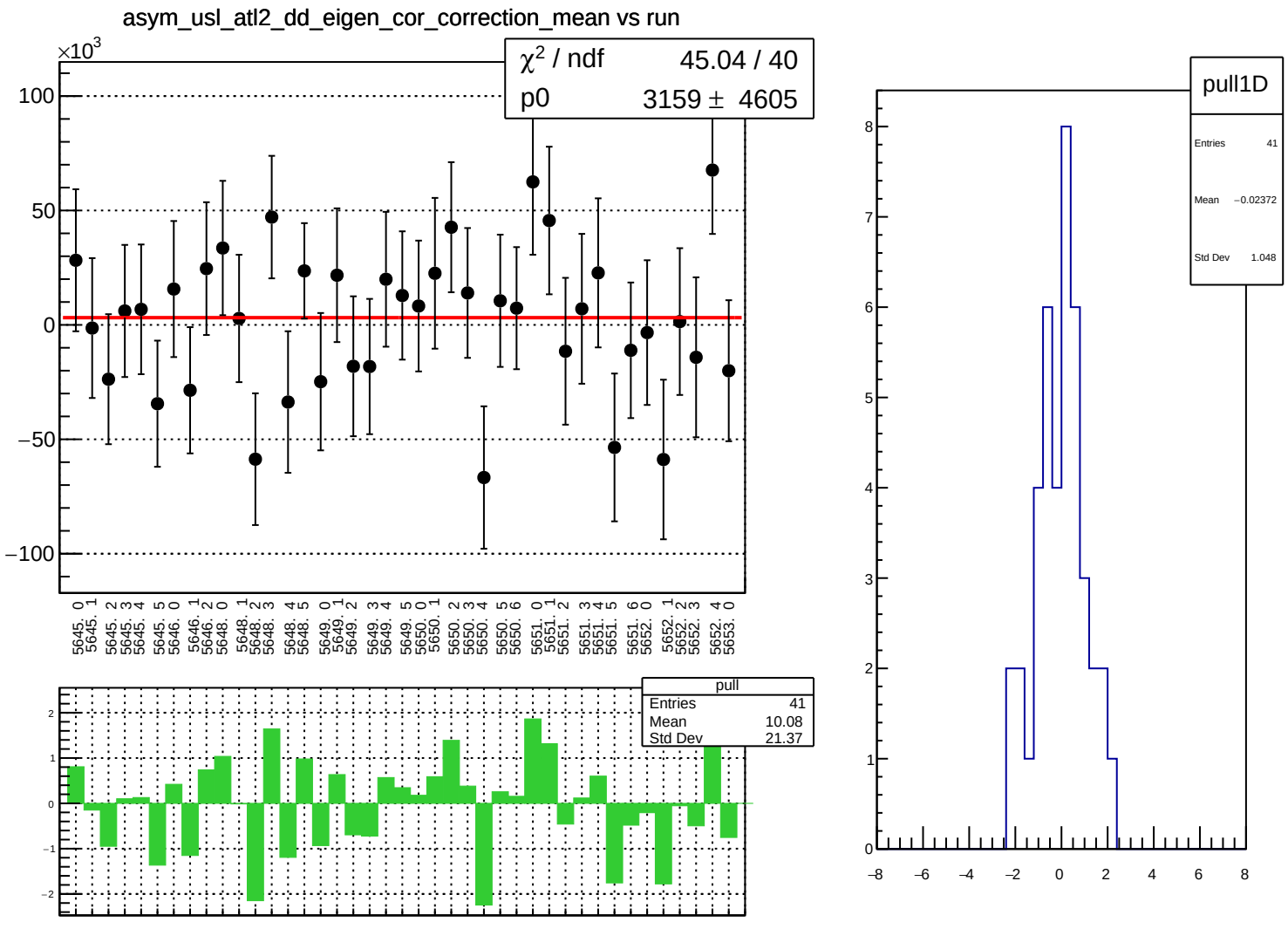

pull1D
Entries 41
Mean −0.02372
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

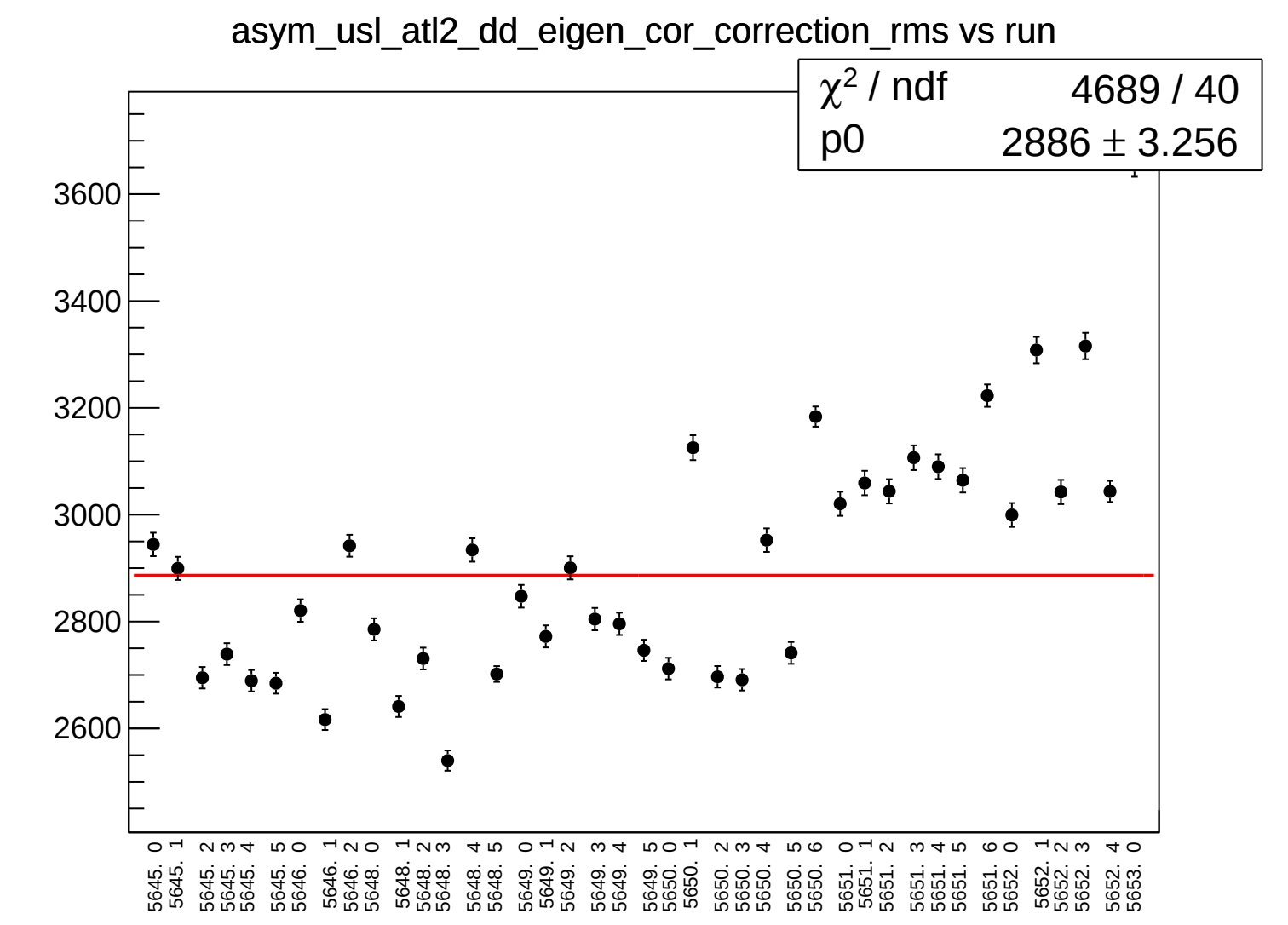

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 4689 / 40
p0 2886 ± 3.256
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

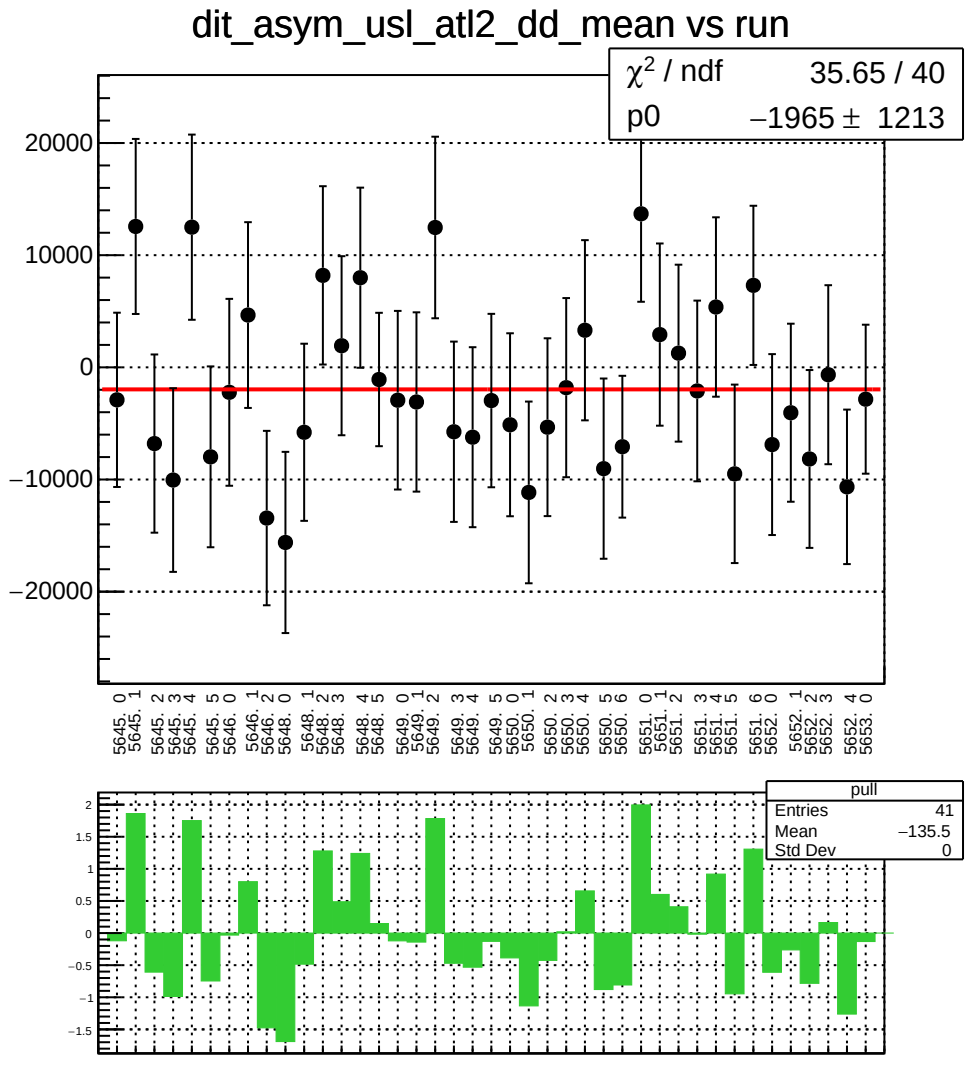

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 33.51 / 40
p0 −1903 ± 1199
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

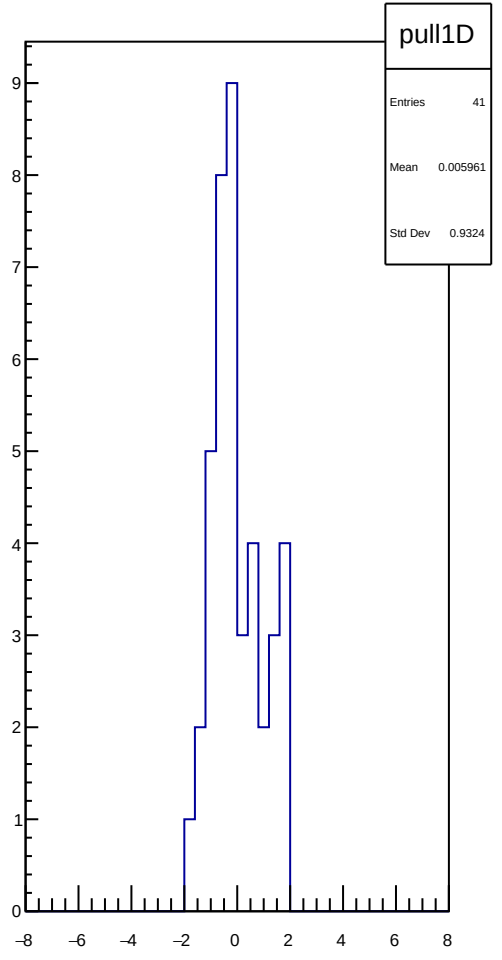

pull1D
Entries 41
Mean 0.00451
Std Dev 0.9041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

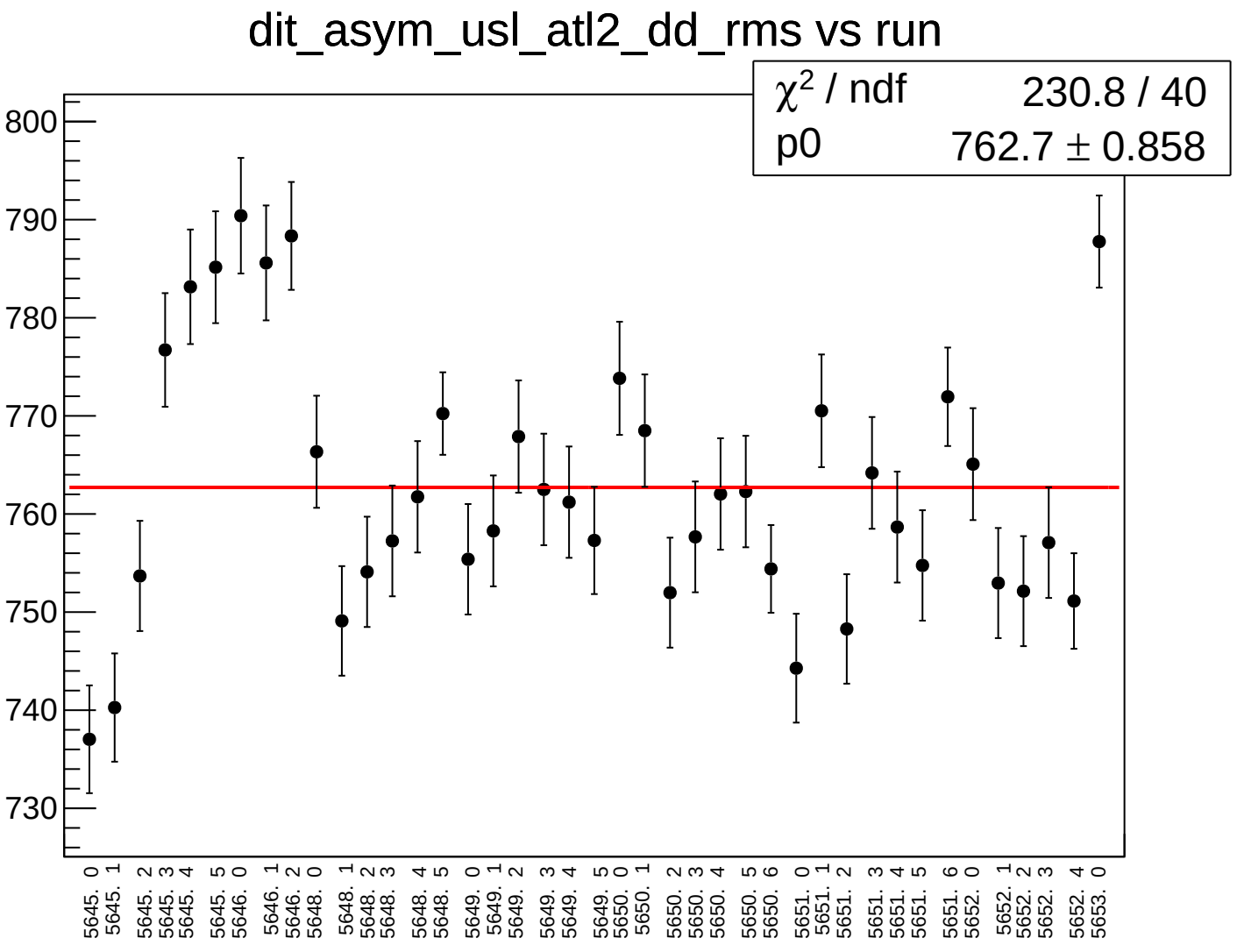

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 167.9 / 40
p0 753.9 ± 0.8481
790
780
770
760
750
740
730
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

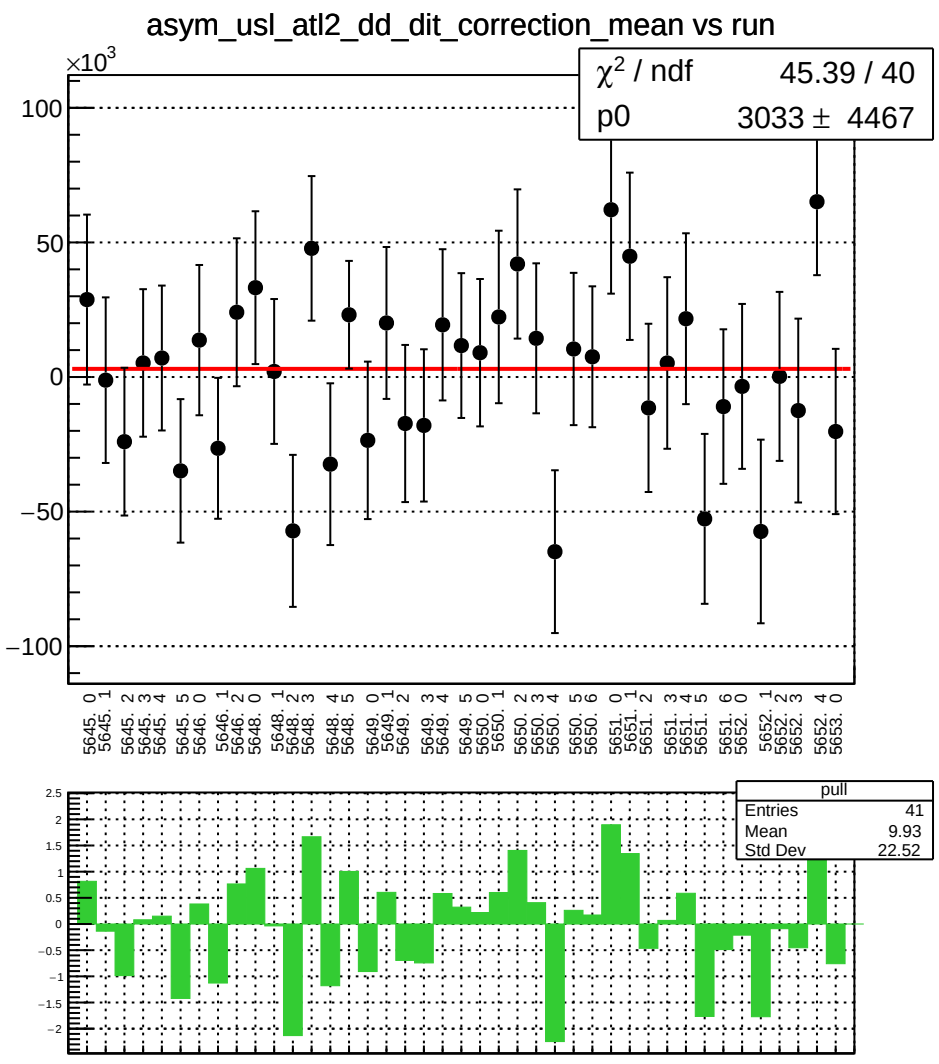

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 45.04 / 40
p0 3159 ± 4605
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 10.08
Std Dev 21.37
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02372
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

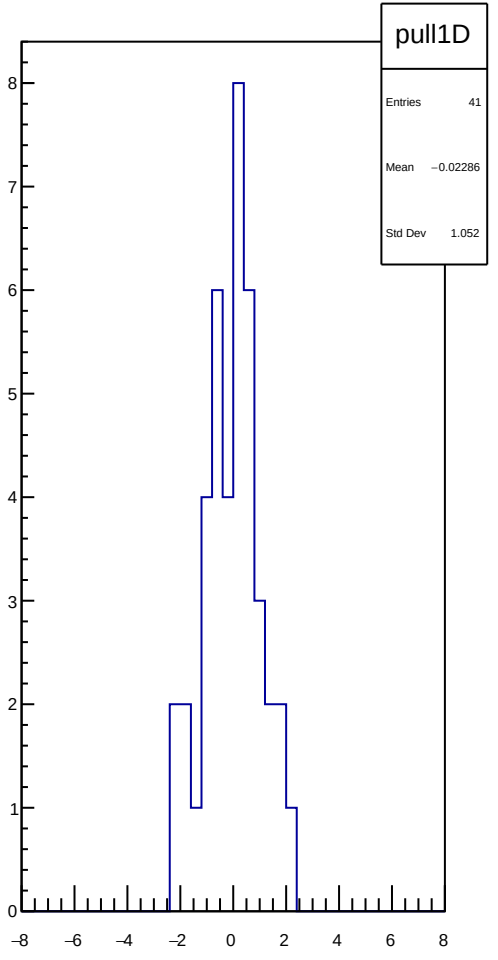

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4689 / 40
p0 2886 ± 3.256
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

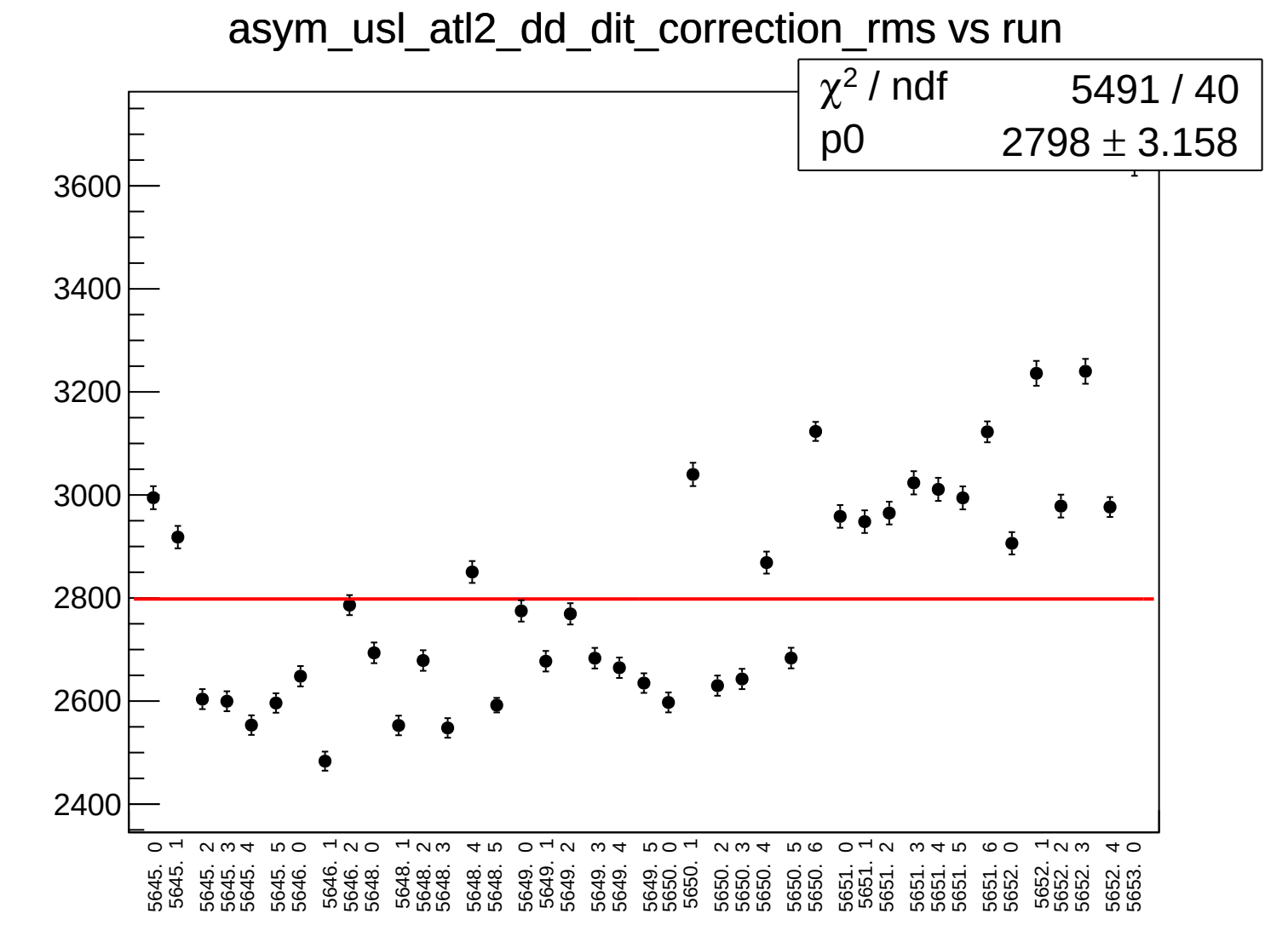

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 35.65 / 40
p0 −1965 ± 1213
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −135.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.005961
Std Dev 0.9324
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 230.8 / 40
p0 762.7 ± 0.858
800
790
780
770
760
750
740
730
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 45.39 / 40
p0 3033 ± 4467
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.93
Std Dev 22.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.02286
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5491 / 40
p0 2798 ± 3.158
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
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5648. 2
5648. 3
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5648. 5
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5649. 2
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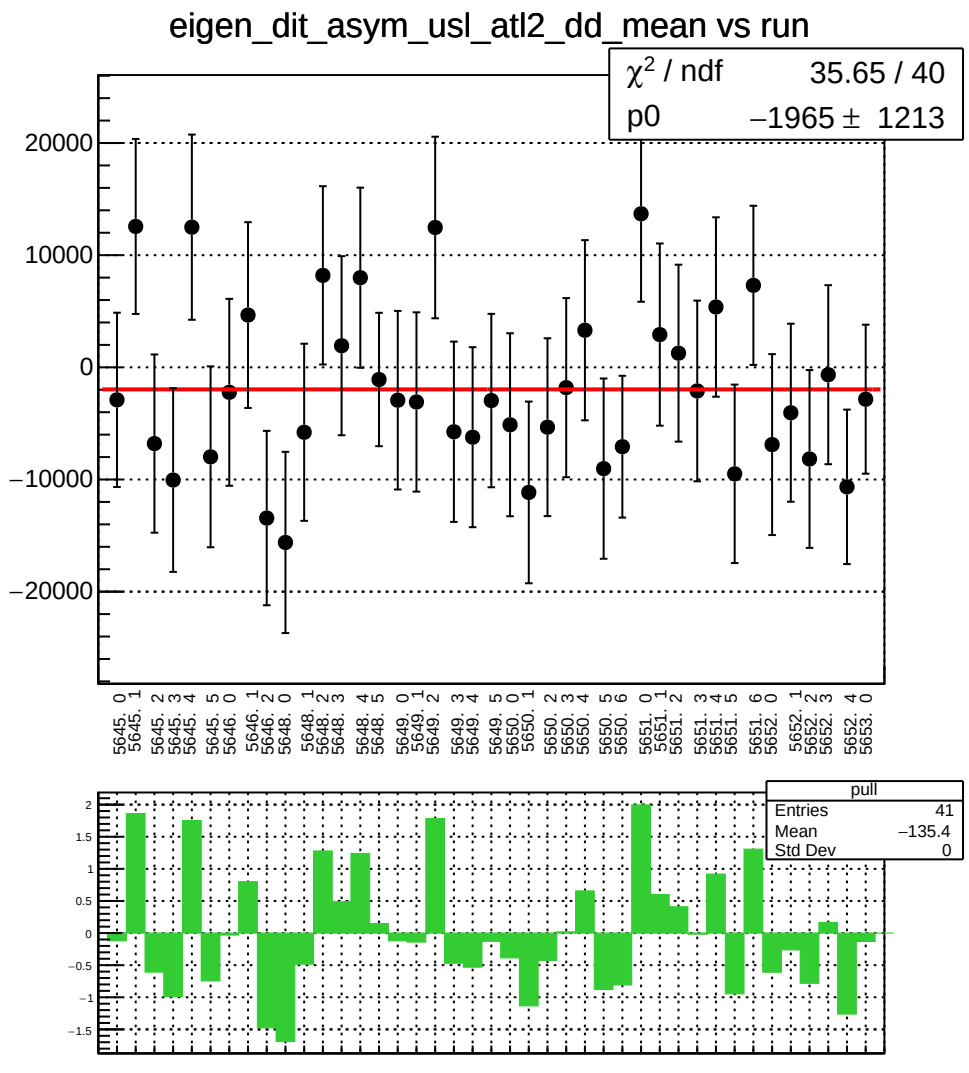
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 35.65 / 40
p0 −1965 ± 1213
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
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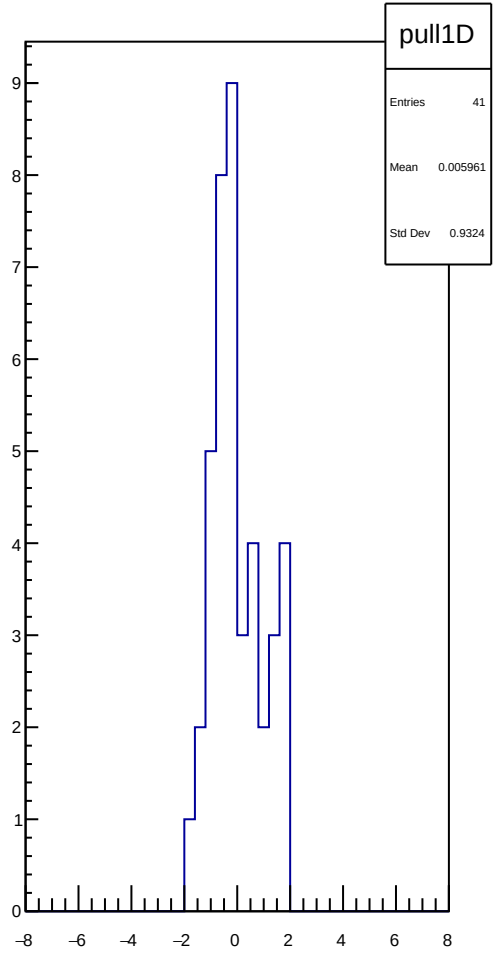
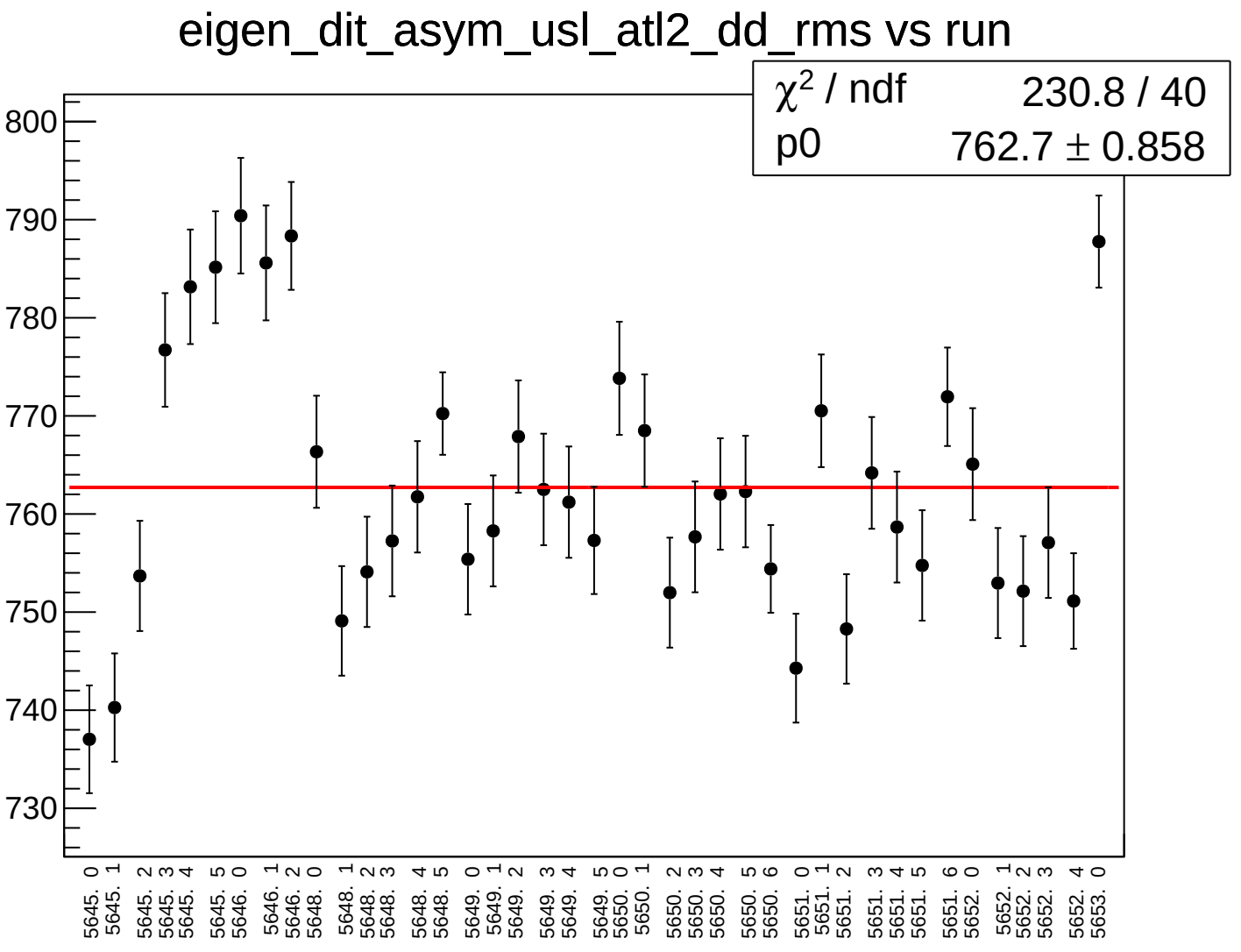
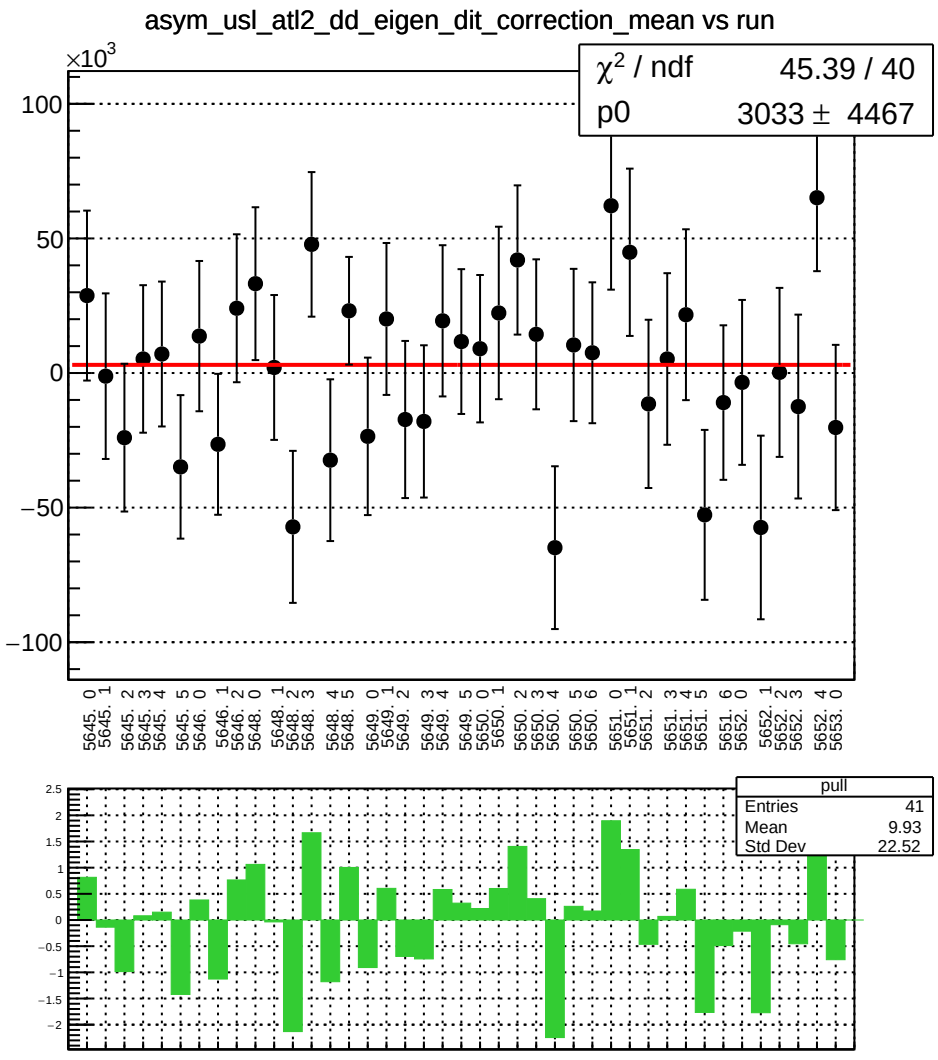
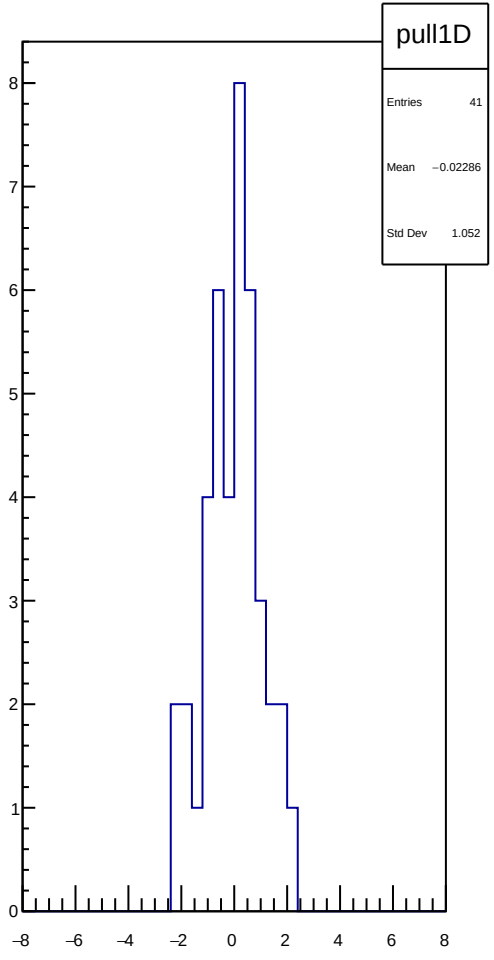
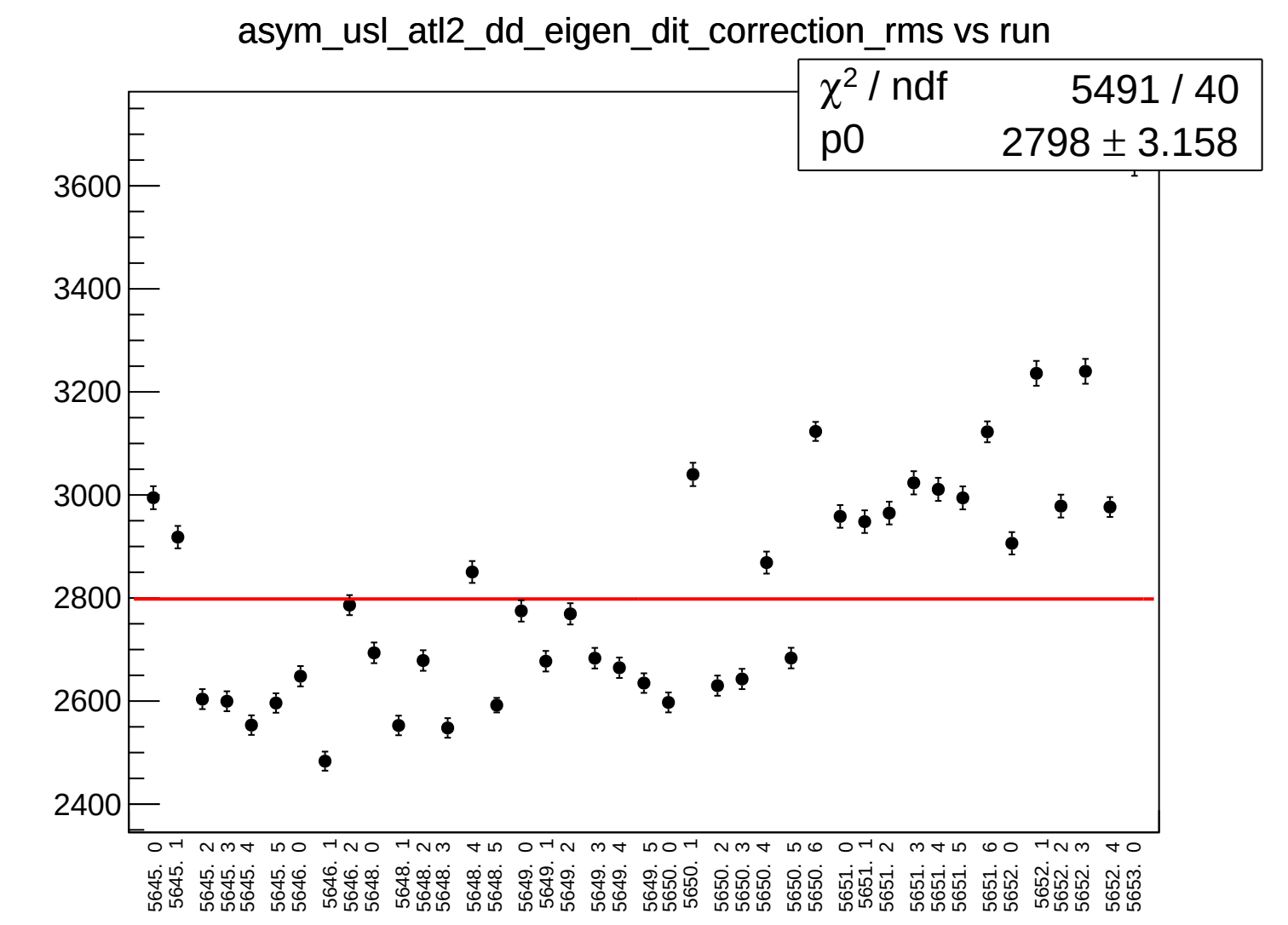
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −135.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

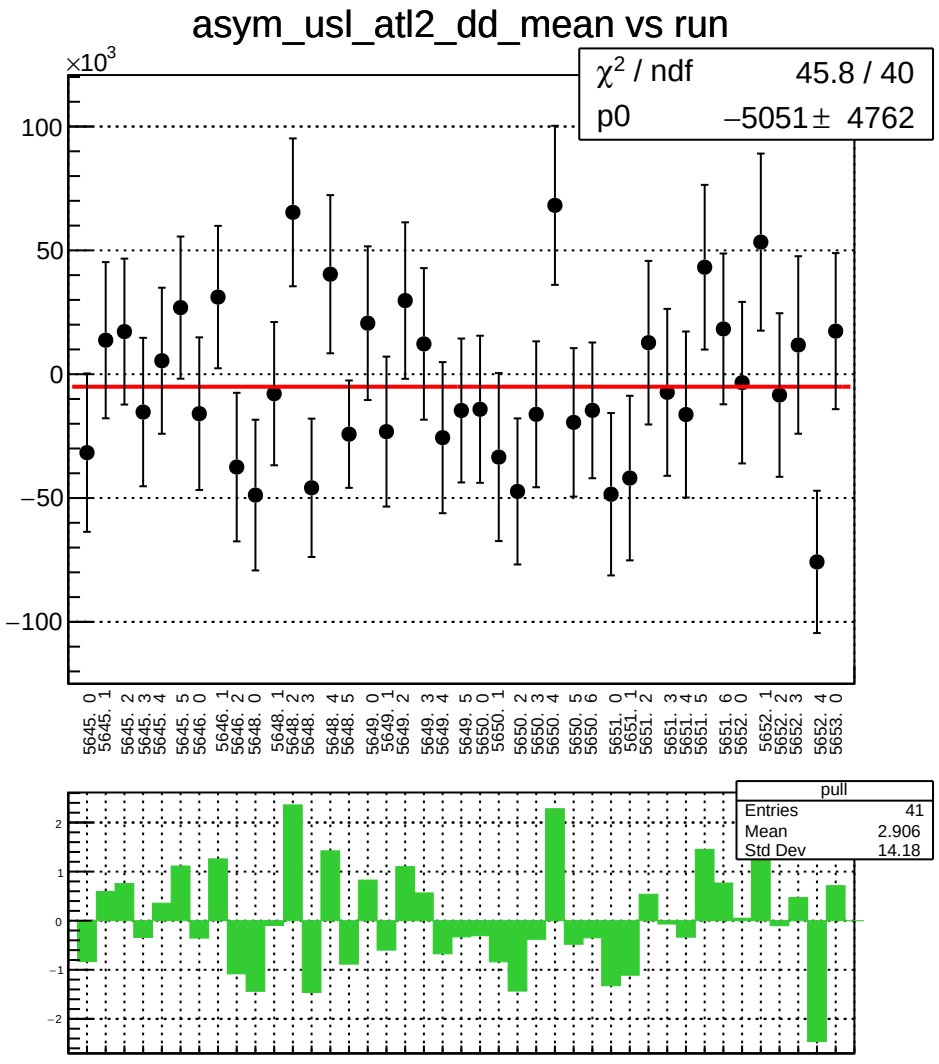

pull1D
Entries 41
Mean 0.005961
Std Dev 0.9324
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

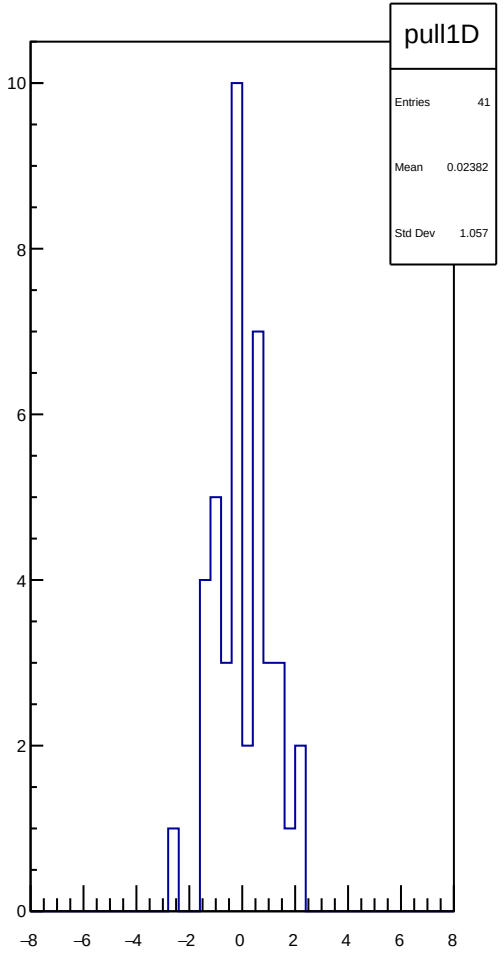

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 230.8 / 40
p0 762.7 ± 0.858
800
790
780
770
760
750
740
730
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

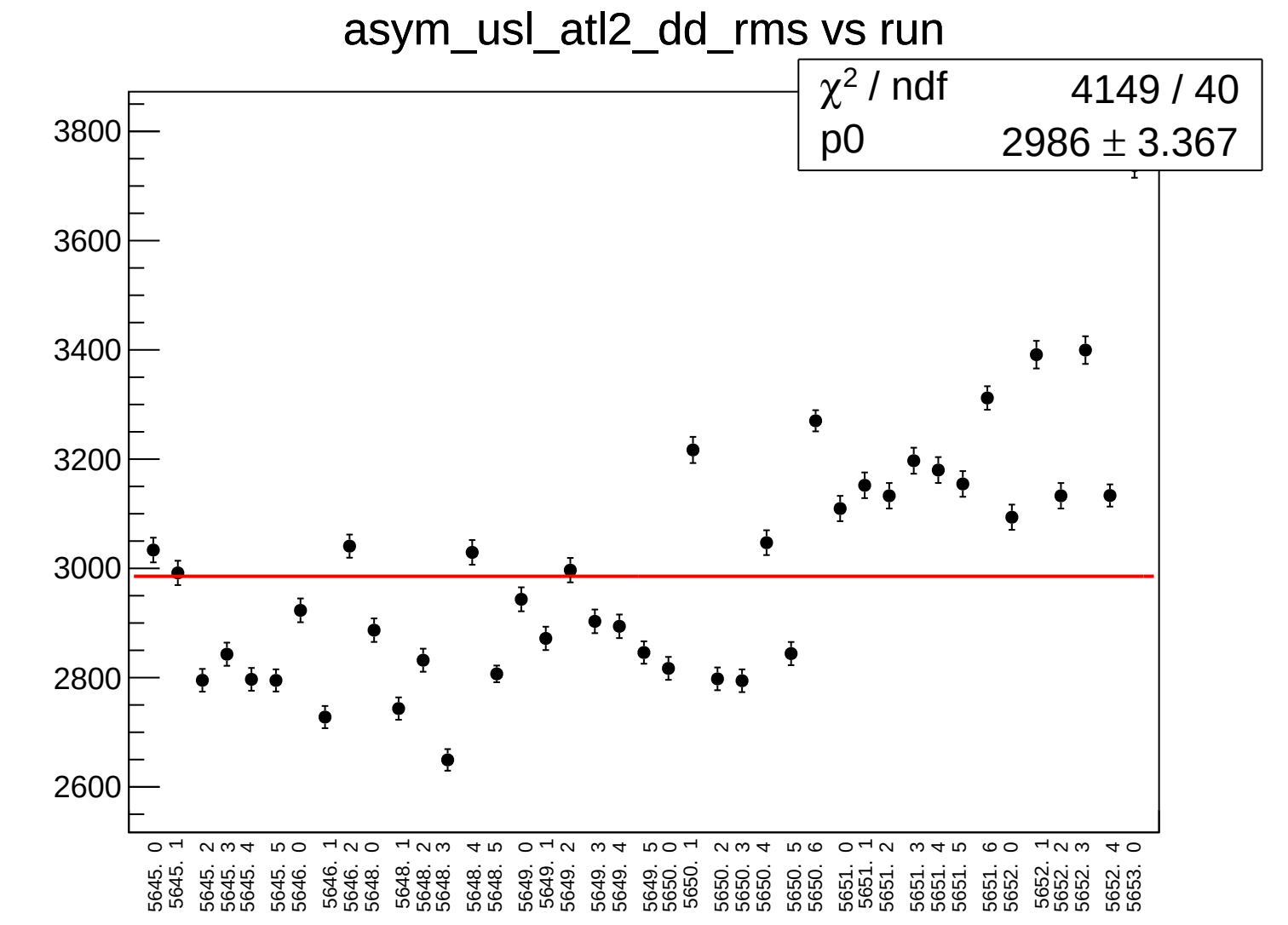

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 45.39 / 40
p0 3033 ± 4467
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.93
Std Dev 22.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

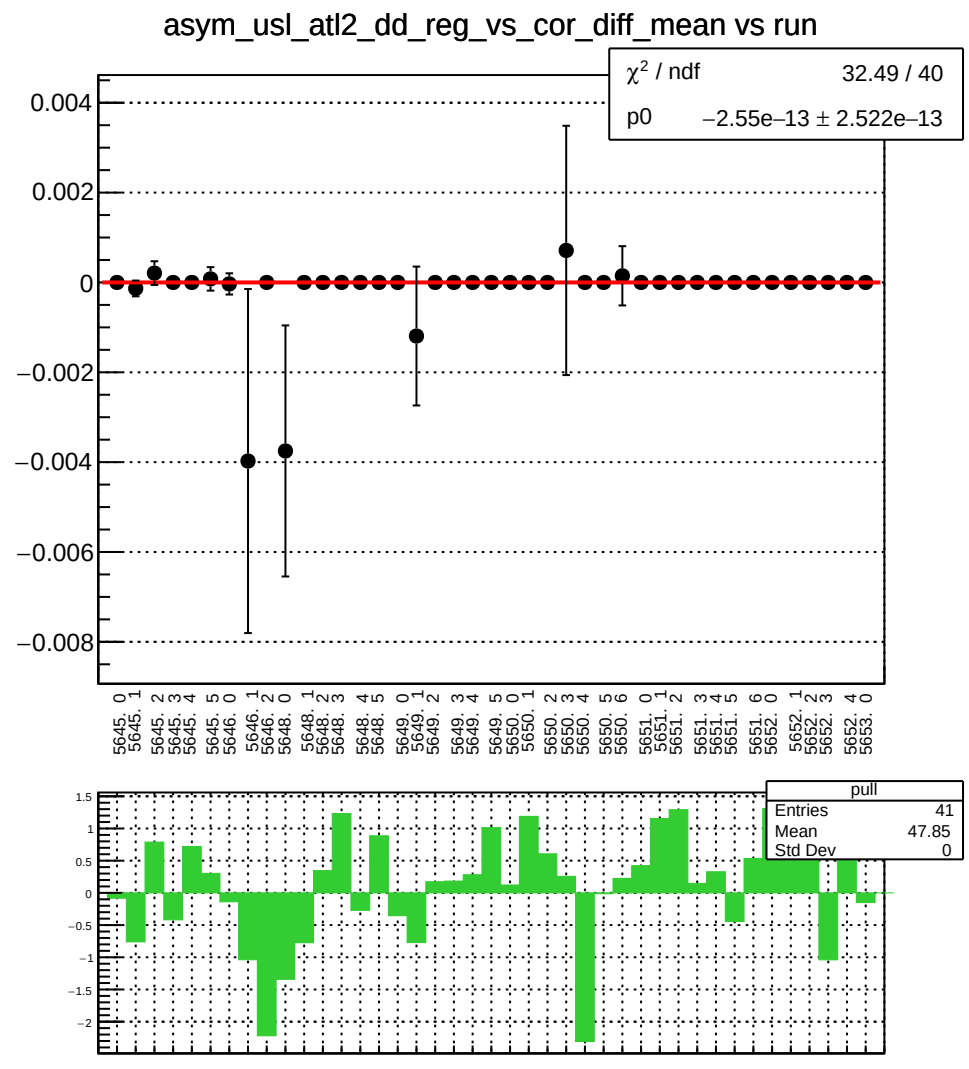

pull1D
Entries 41
Mean −0.02286
Std Dev 1.052
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

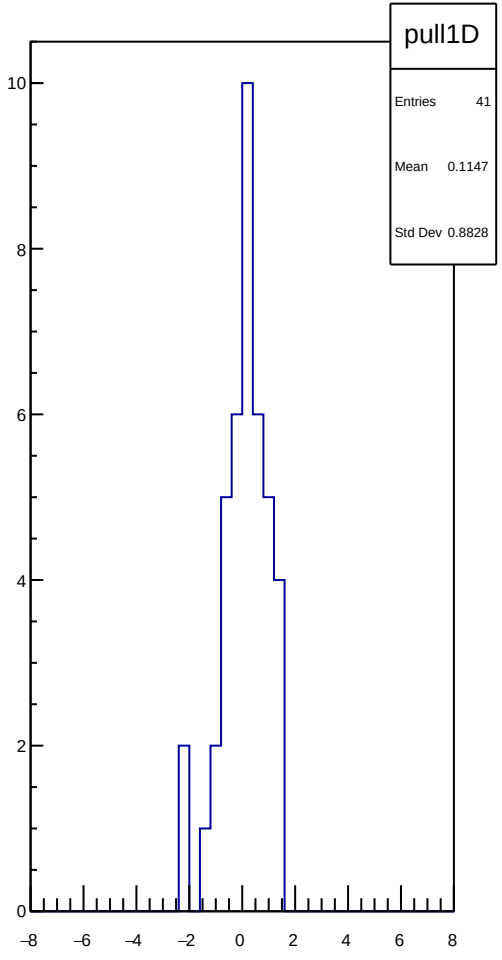

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5491 / 40
p0 2798 ± 3.158
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

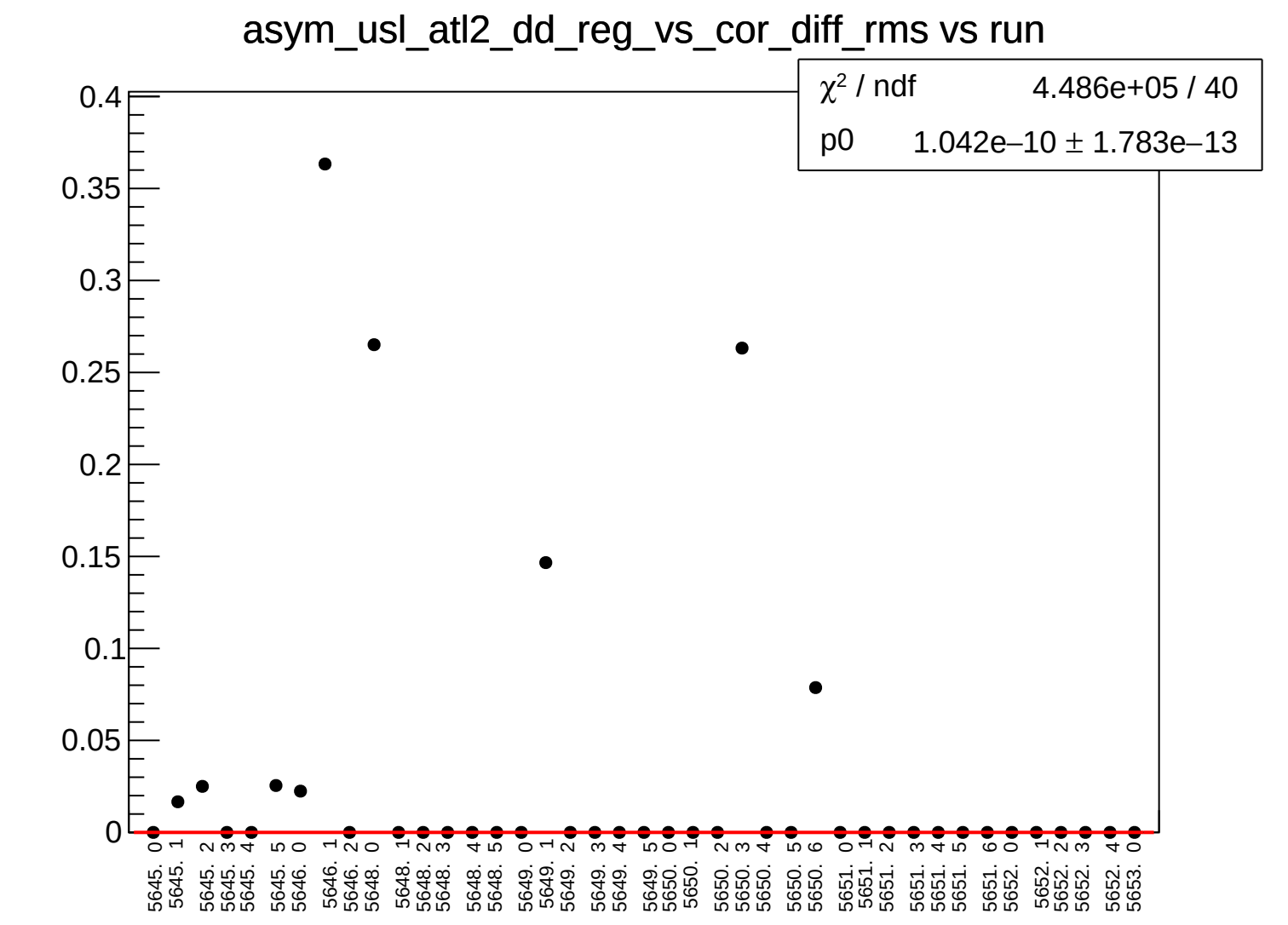

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 45.8 / 40
p0 −5051 ± 4762
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2.906
Std Dev 14.18
2
1
0
−1
−2

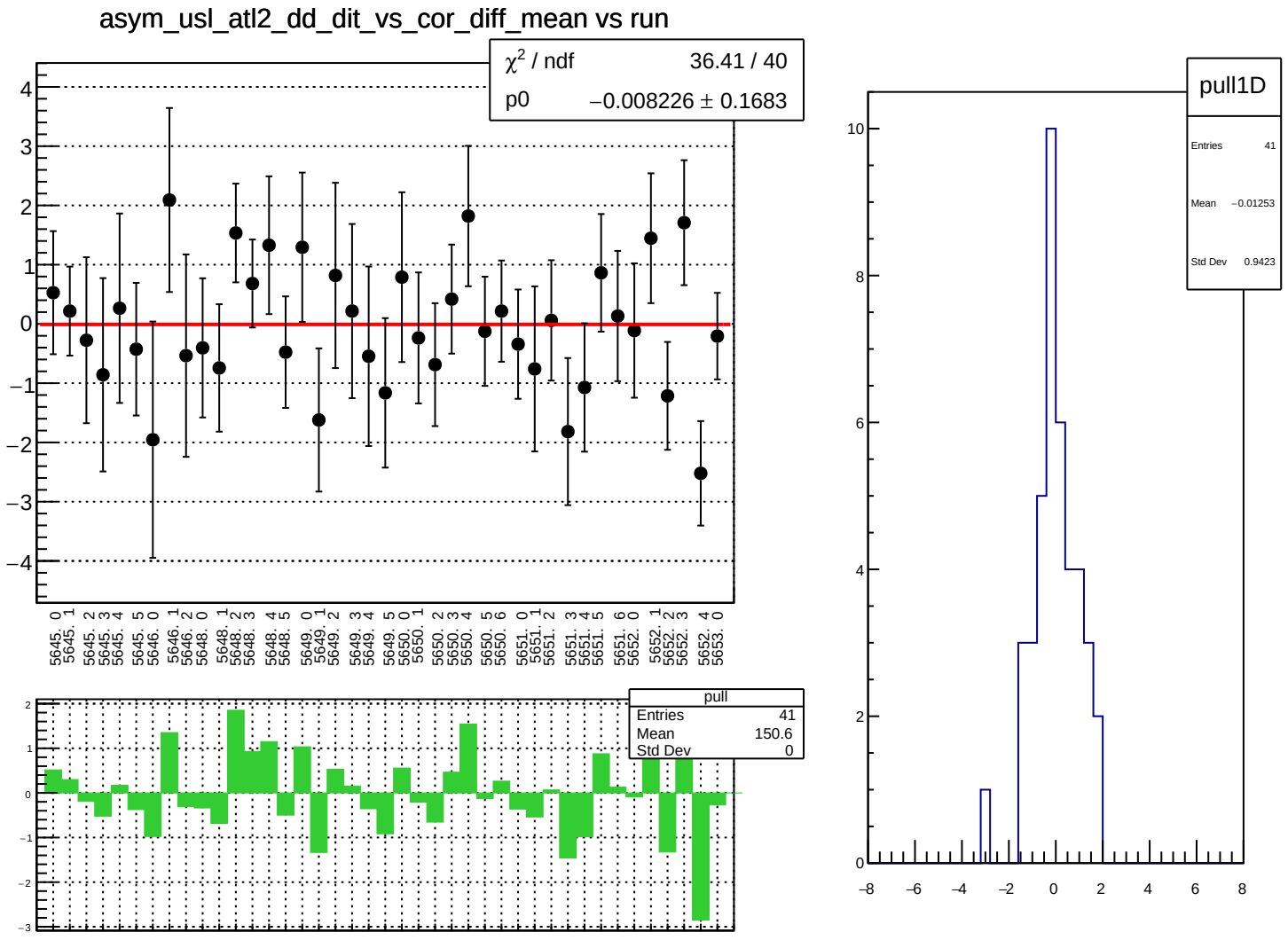

pull1D
Entries 41
Mean 0.02382
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

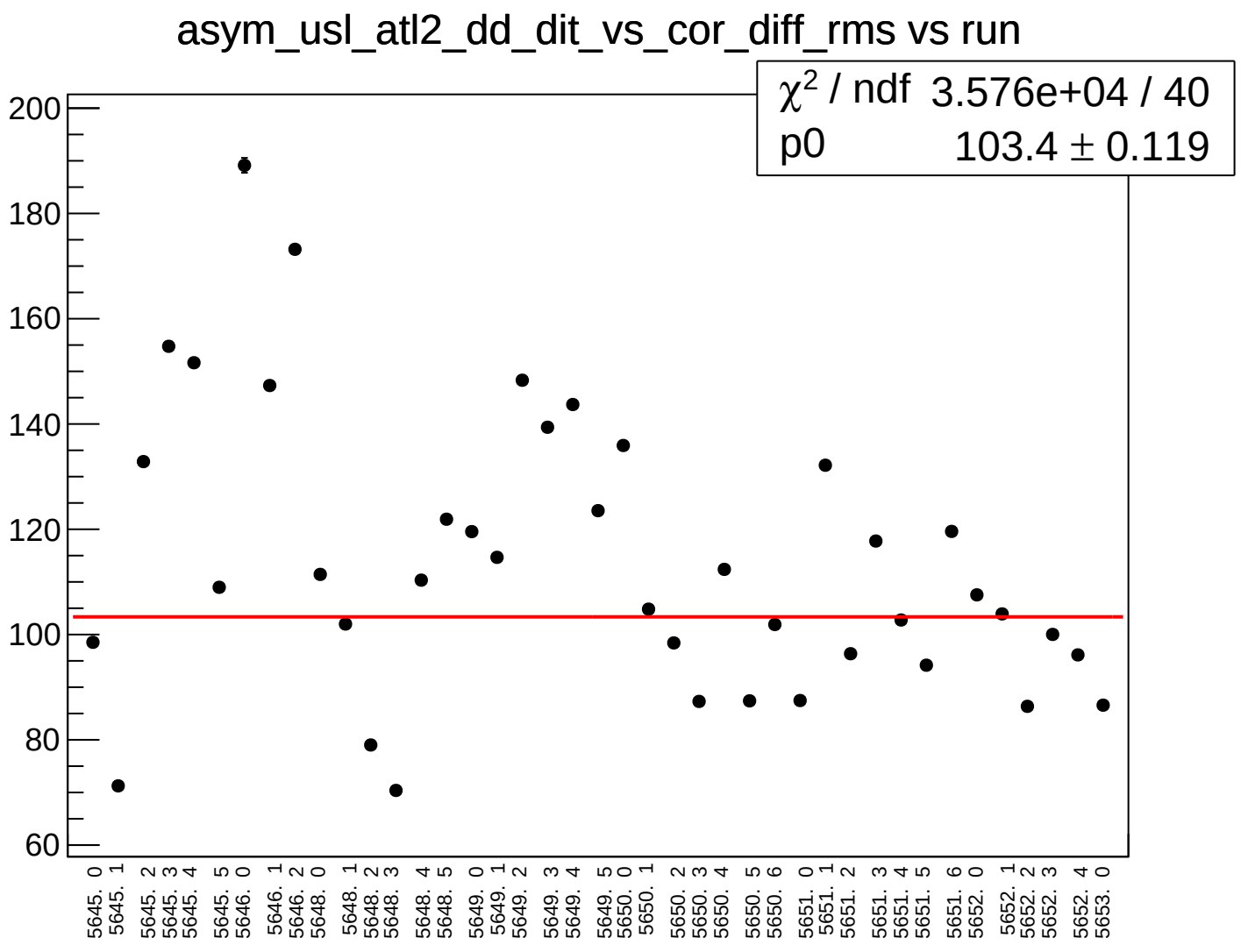

asym_usl_atl2_dd_rms vs run
χ² / ndf 4149 / 40
p0 2986 ± 3.367
3800
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

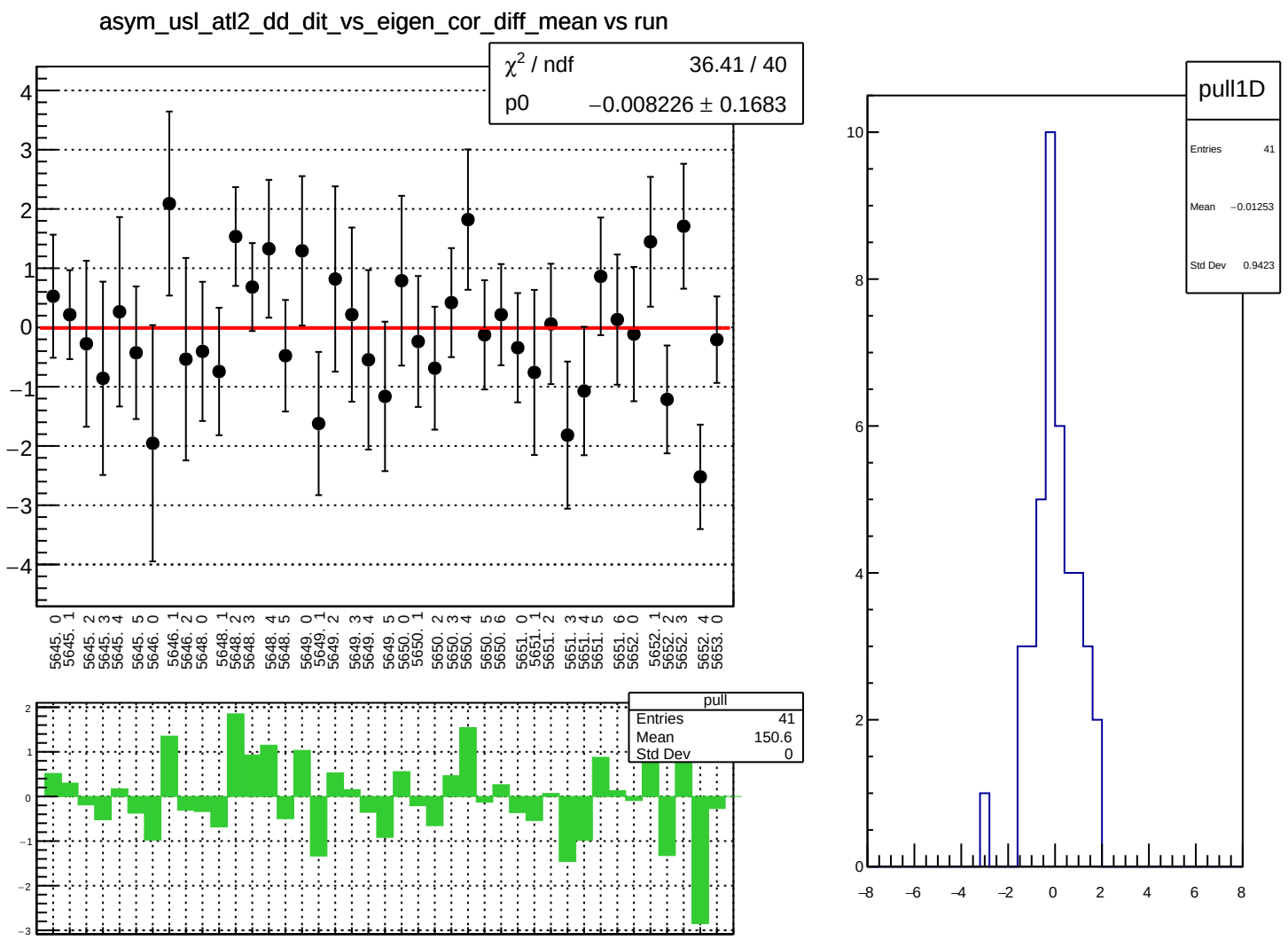

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 32.49 / 40
p0 −2.55e−13 ± 2.522e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 47.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

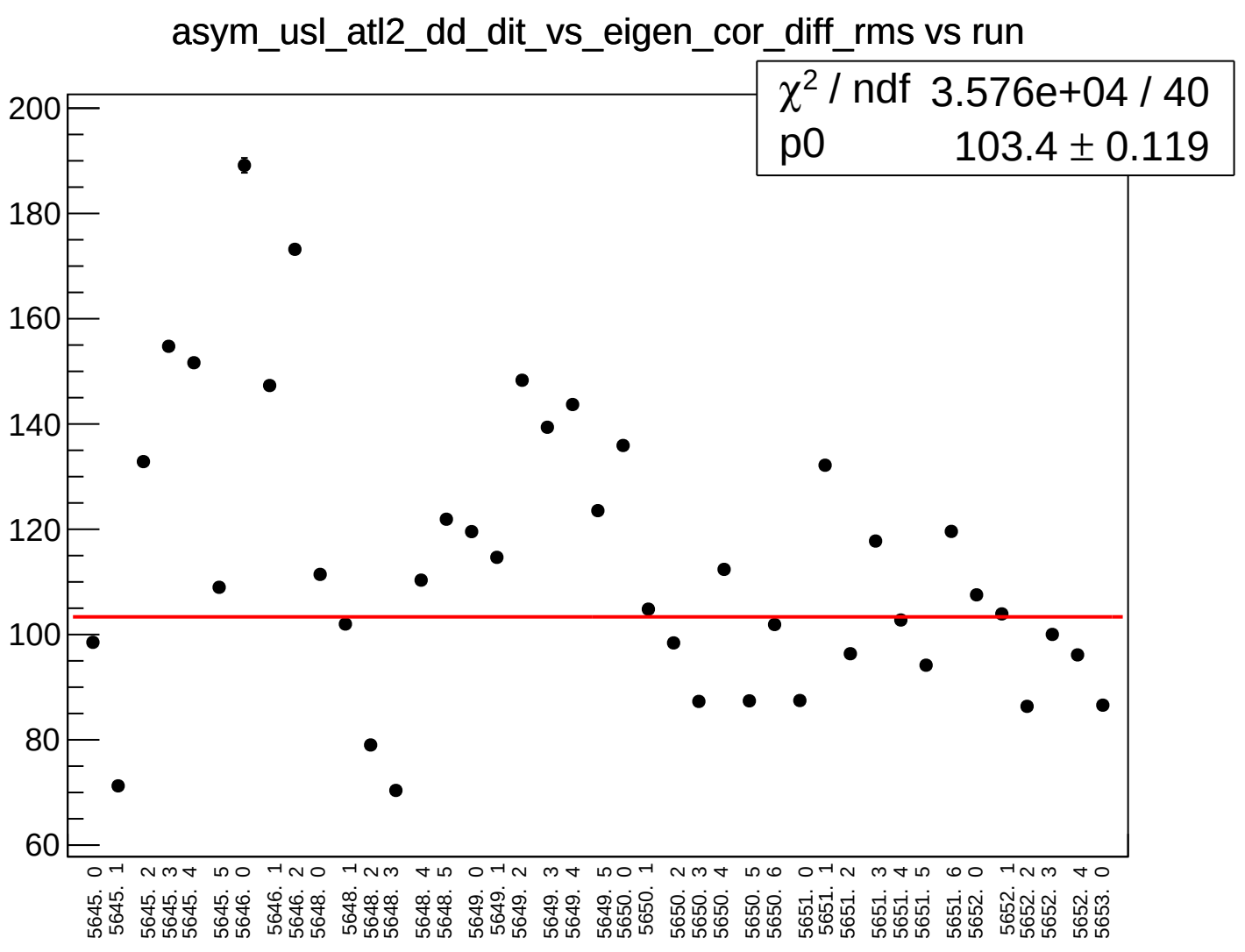

pull1D
Entries 41
Mean 0.1147
Std Dev 0.8828
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

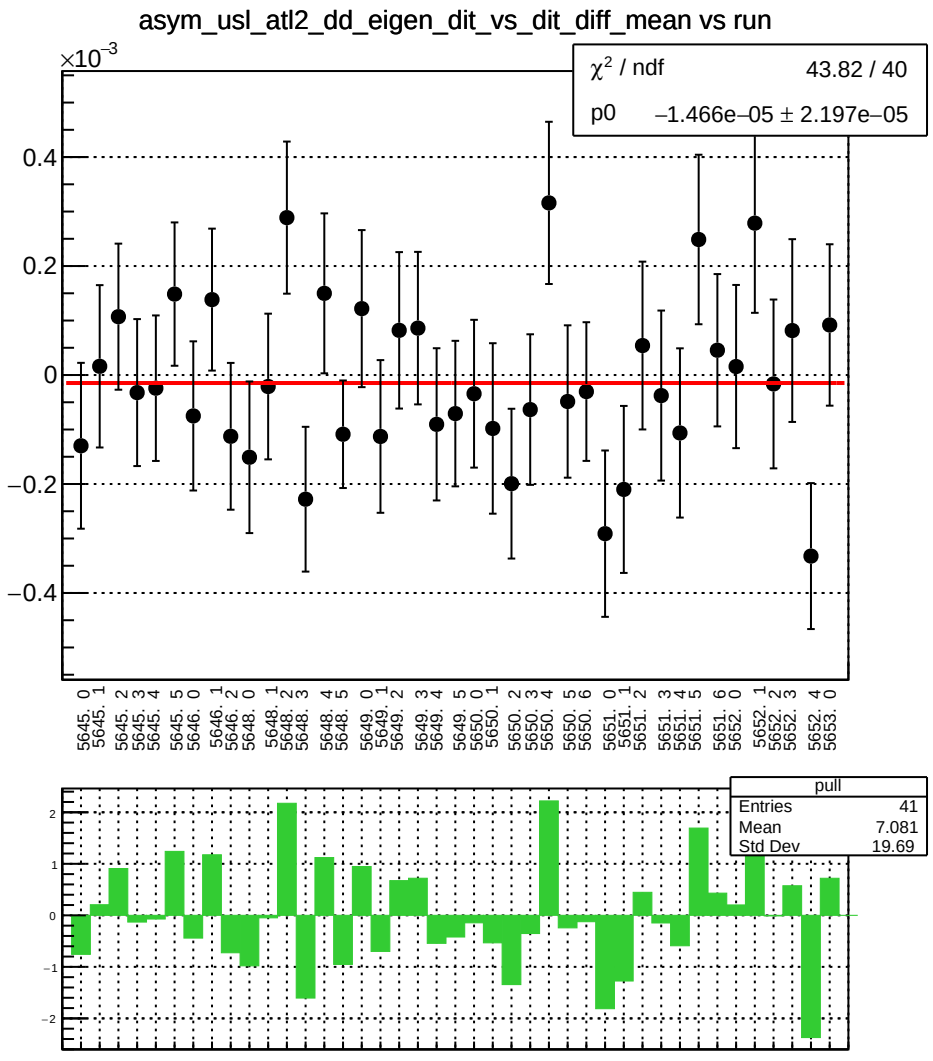

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.486e+05 / 40
p0 1.042e−10 ± 1.783e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

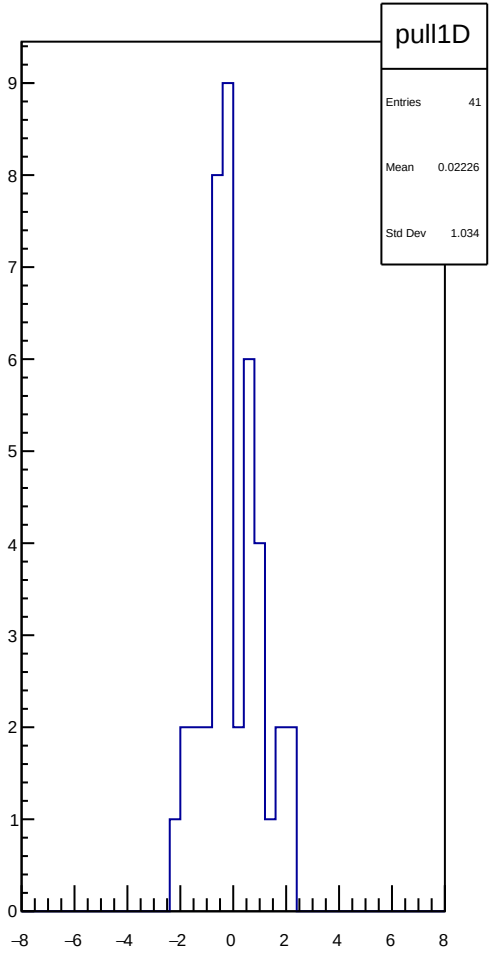

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 36.41 / 40
p0 −0.008226 ± 0.1683
pull
Entries 41
Mean 150.6
Std Dev 0
pull1D
Entries 41
Mean −0.01253
Std Dev 0.9423

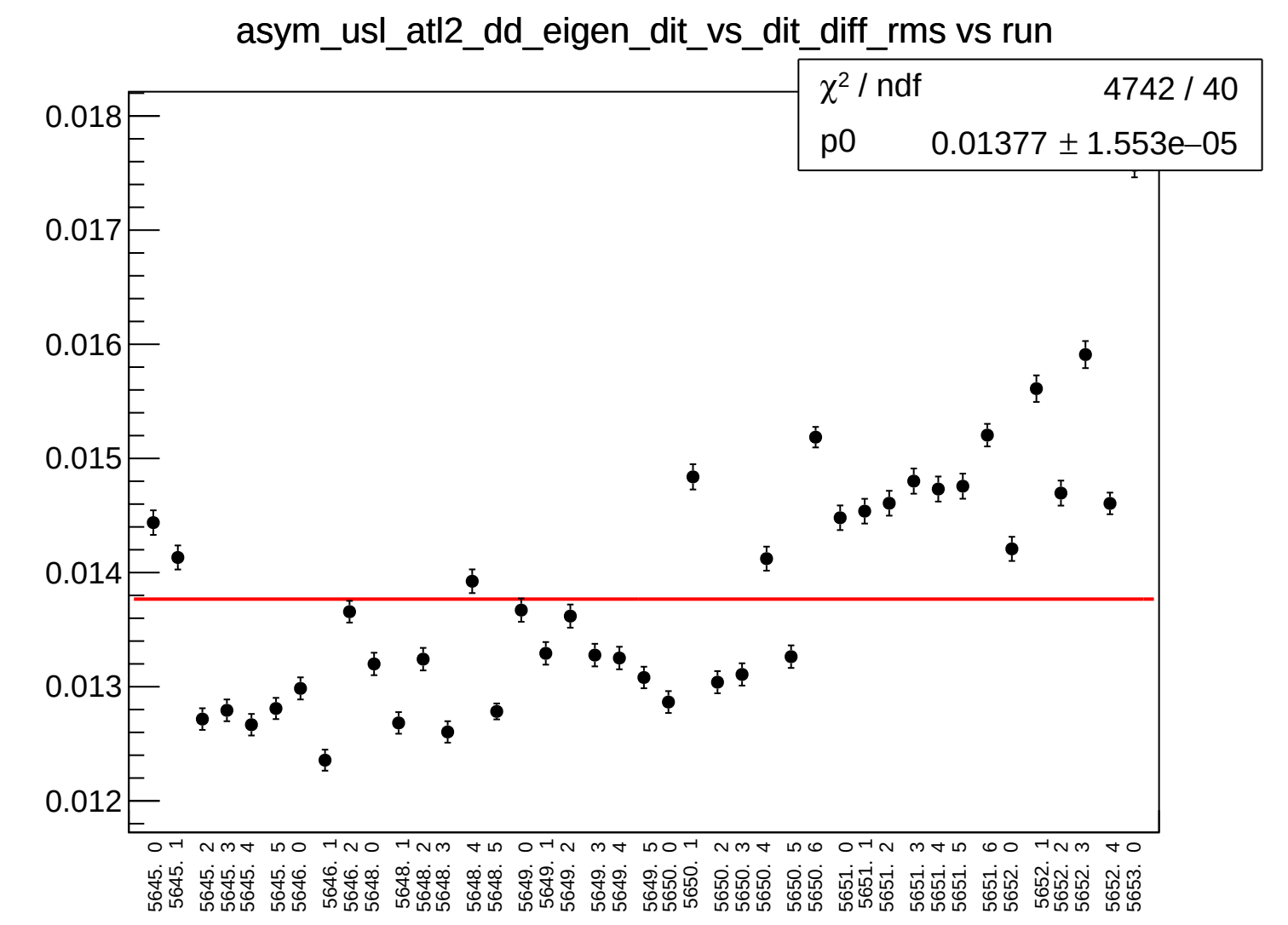

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 40
p0 103.4 ± 0.119
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

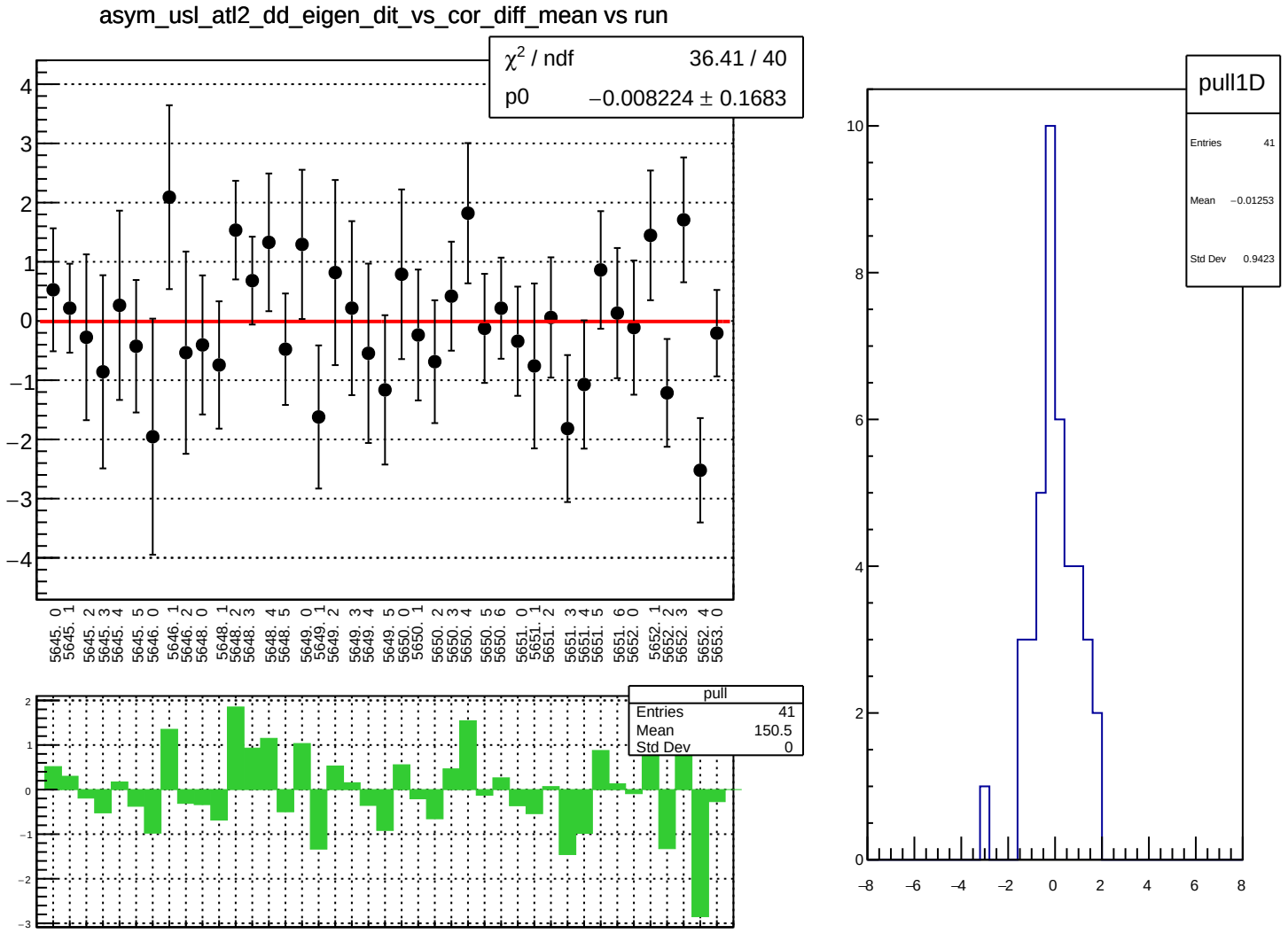

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.41 / 40
p0 −0.008226 ± 0.1683
pull
Entries 41
Mean 150.6
Std Dev 0
pull1D
Entries 41
Mean −0.01253
Std Dev 0.9423

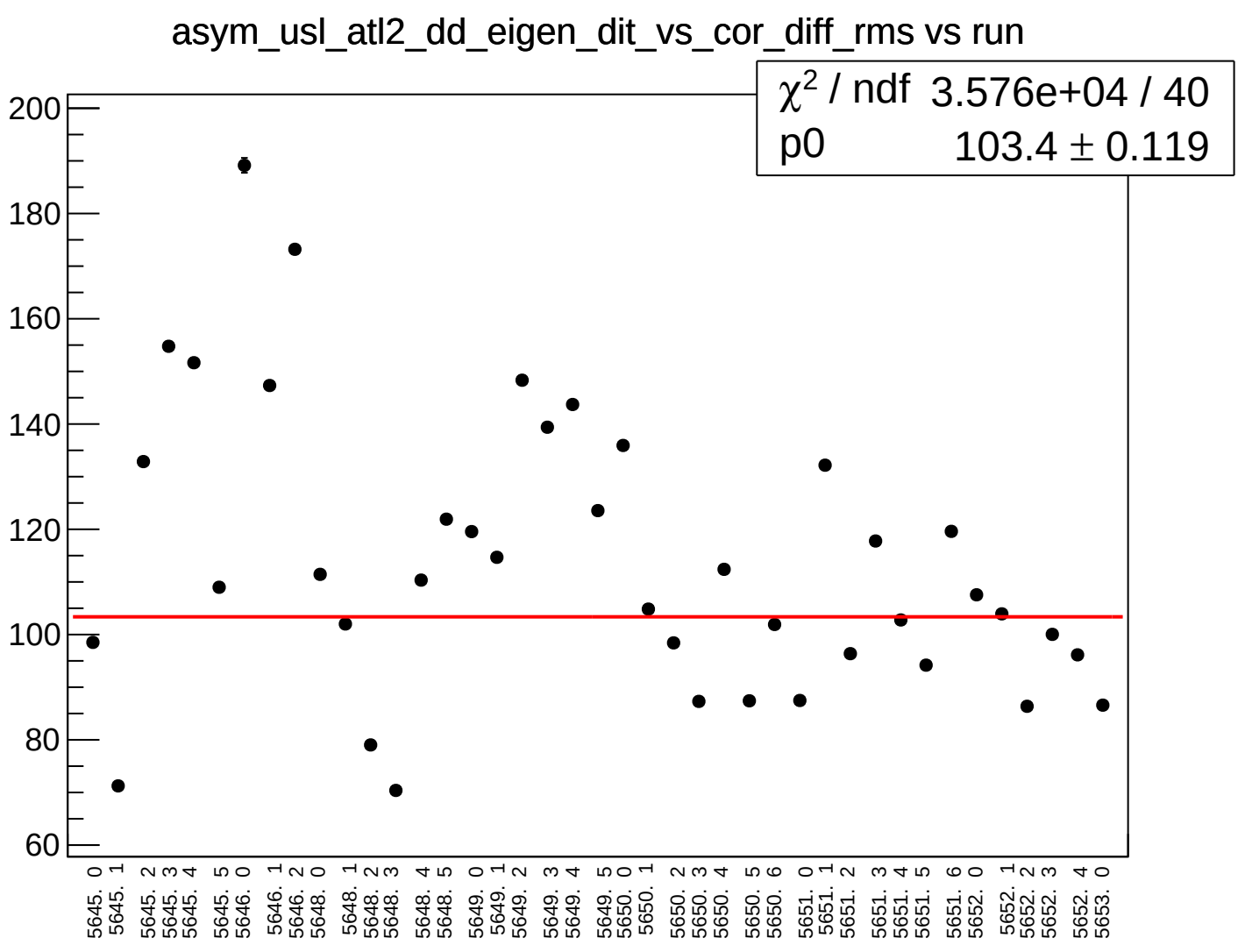

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 40
p0 103.4 ± 0.119
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

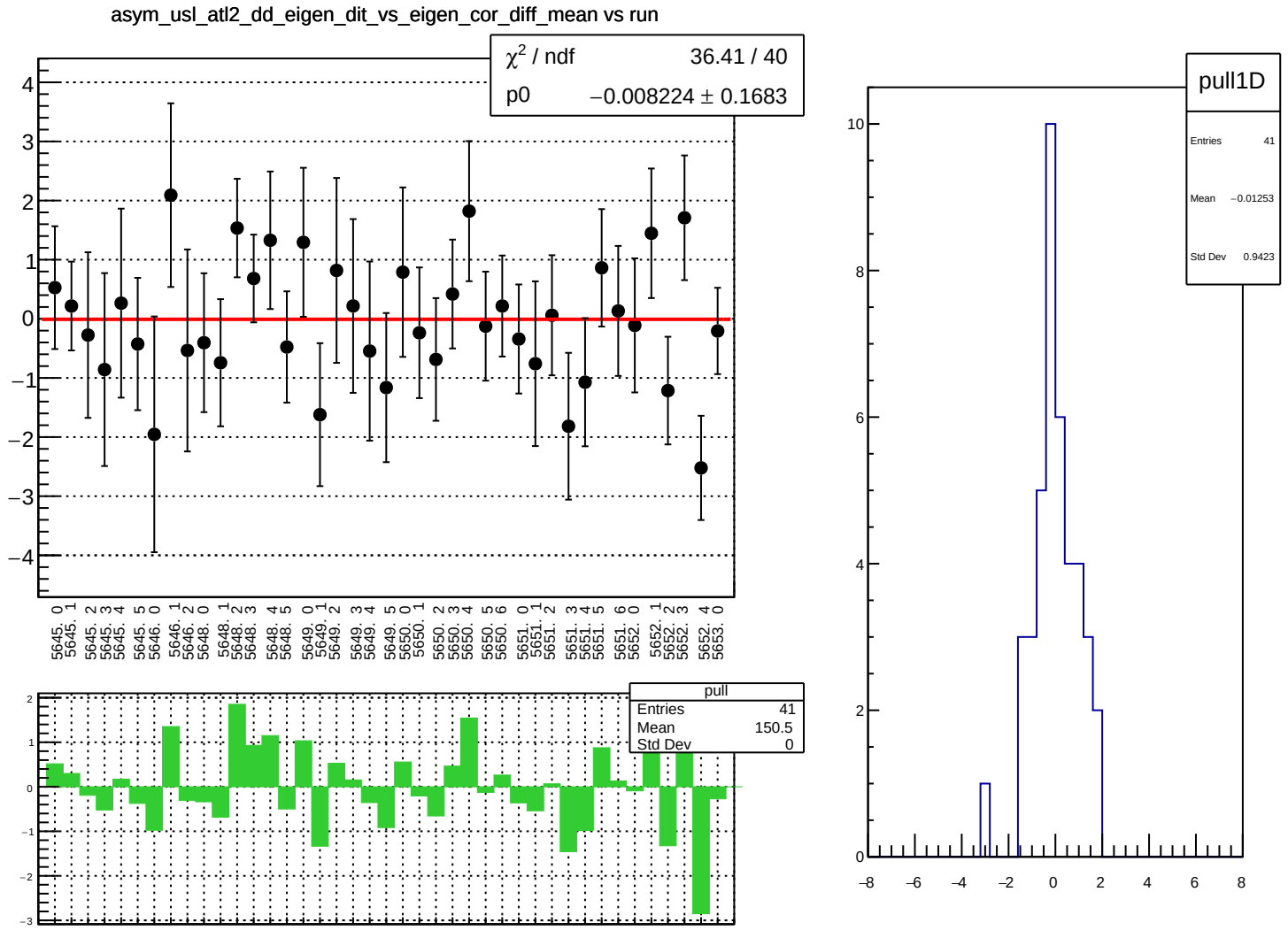

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.82 / 40
p0 −1.466e−05 ± 2.197e−05
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 7.081
Std Dev 19.69
2
1
0
−1
−2

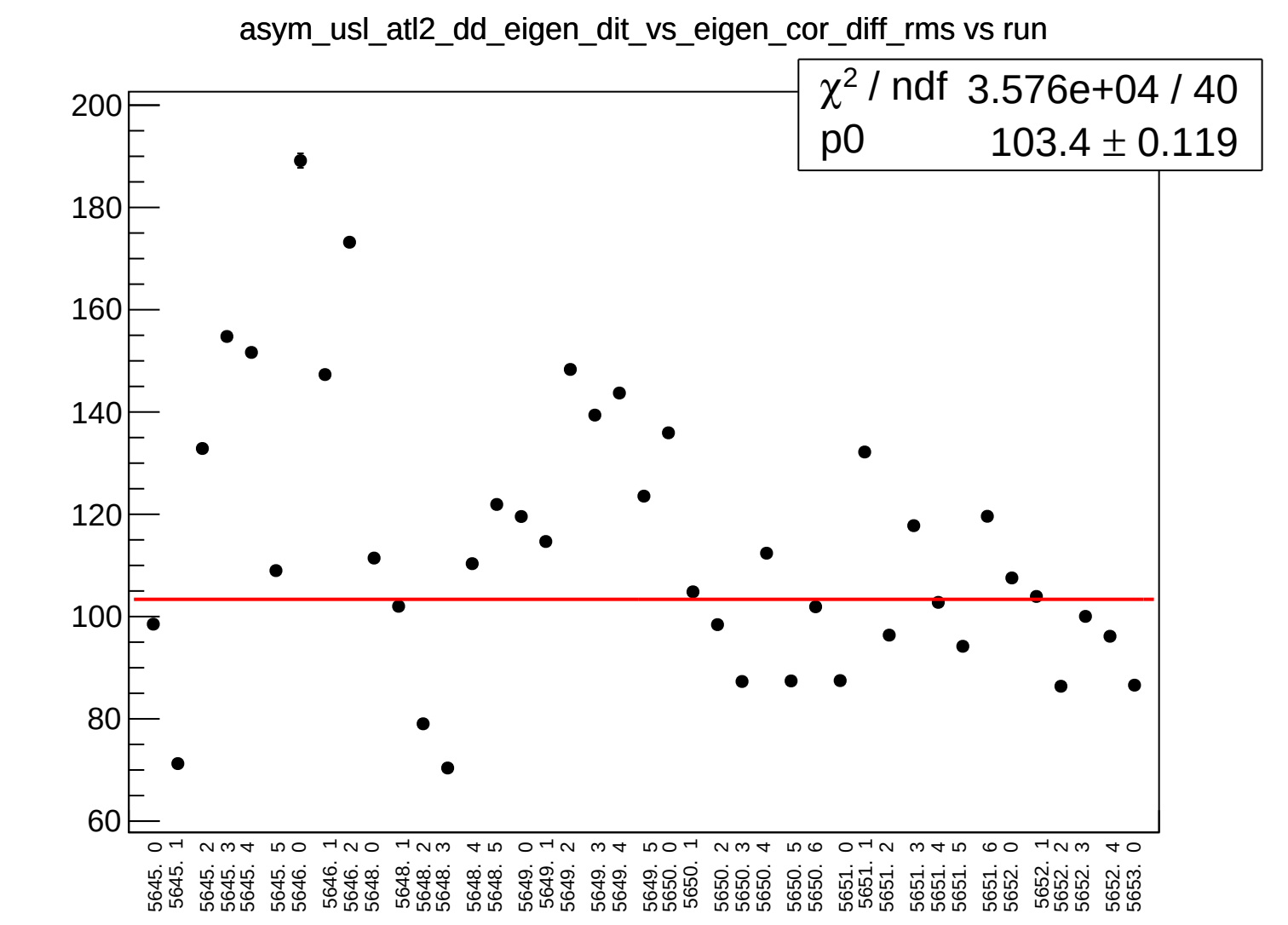

pull1D
Entries 41
Mean 0.02226
Std Dev 1.034
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

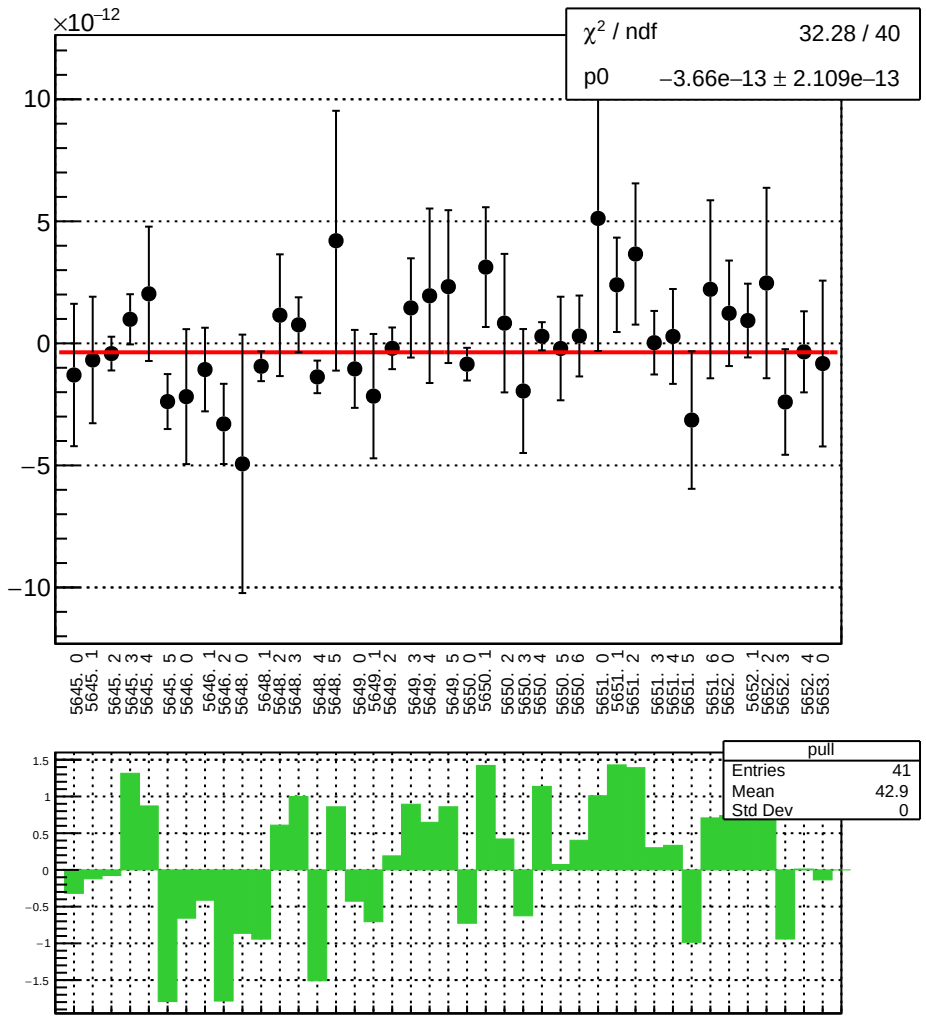

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4742 / 40
p0 0.01377 ± 1.553e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

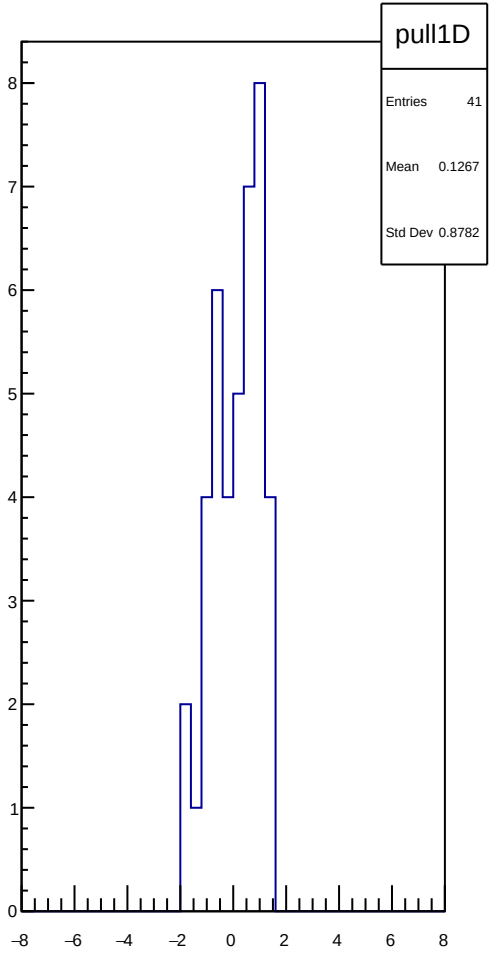

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.41 / 40
p0 −0.008224 ± 0.1683
pull
Entries 41
Mean 150.5
Std Dev 0
pull1D
Entries 41
Mean −0.01253
Std Dev 0.9423

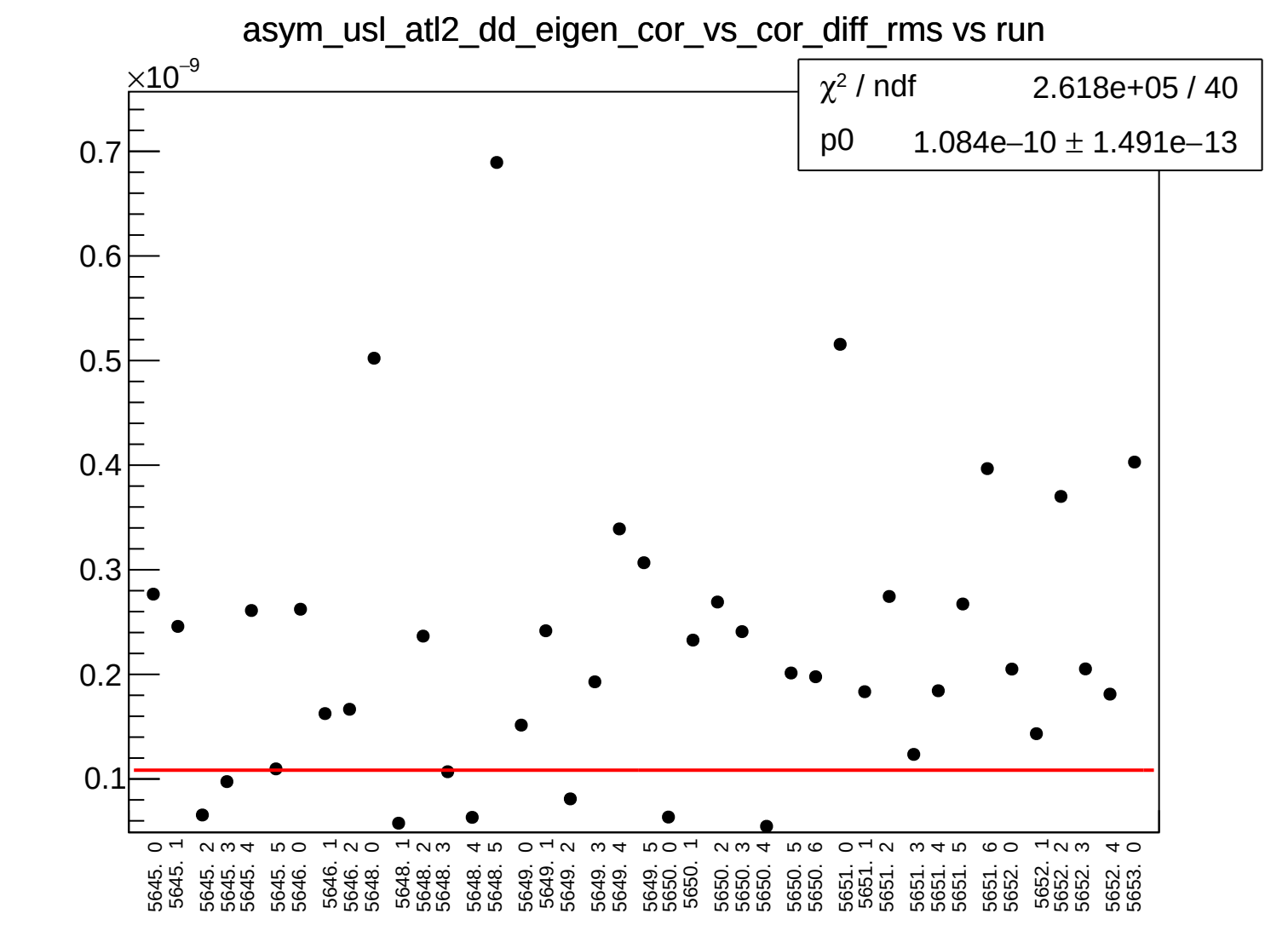

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 40
p0 103.4 ± 0.119
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

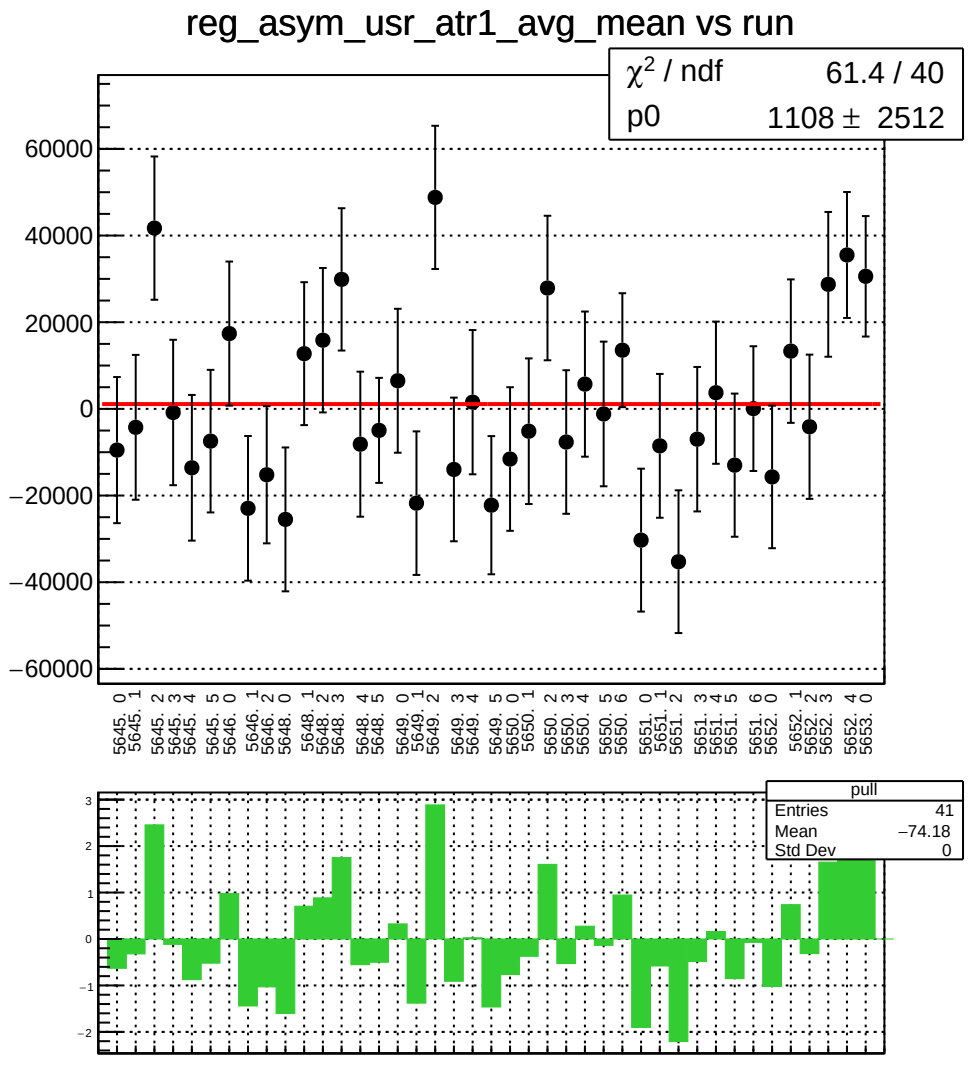

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.41 / 40
p0 −0.008224 ± 0.1683
pull
Entries 41
Mean 150.5
Std Dev 0
pull1D
Entries 41
Mean −0.01253
Std Dev 0.9423

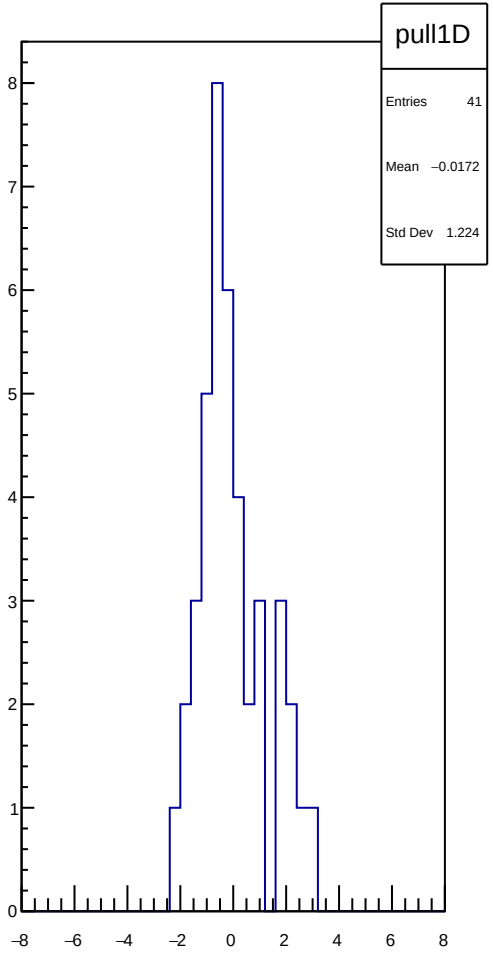

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.576e+04 / 40
p0 103.4 ± 0.119
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

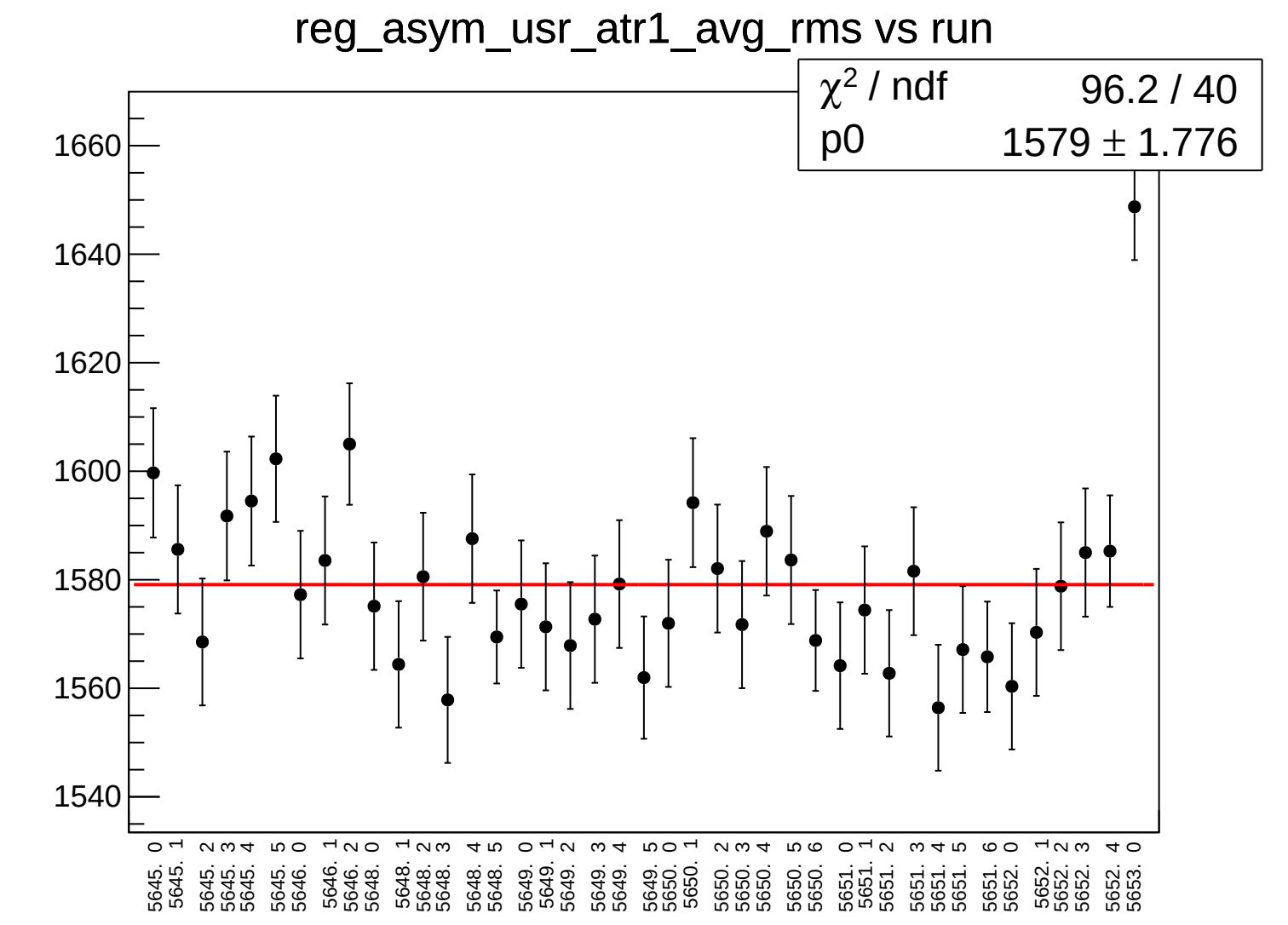

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.28 / 40
p0 −3.66e−13 ± 2.109e−13
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

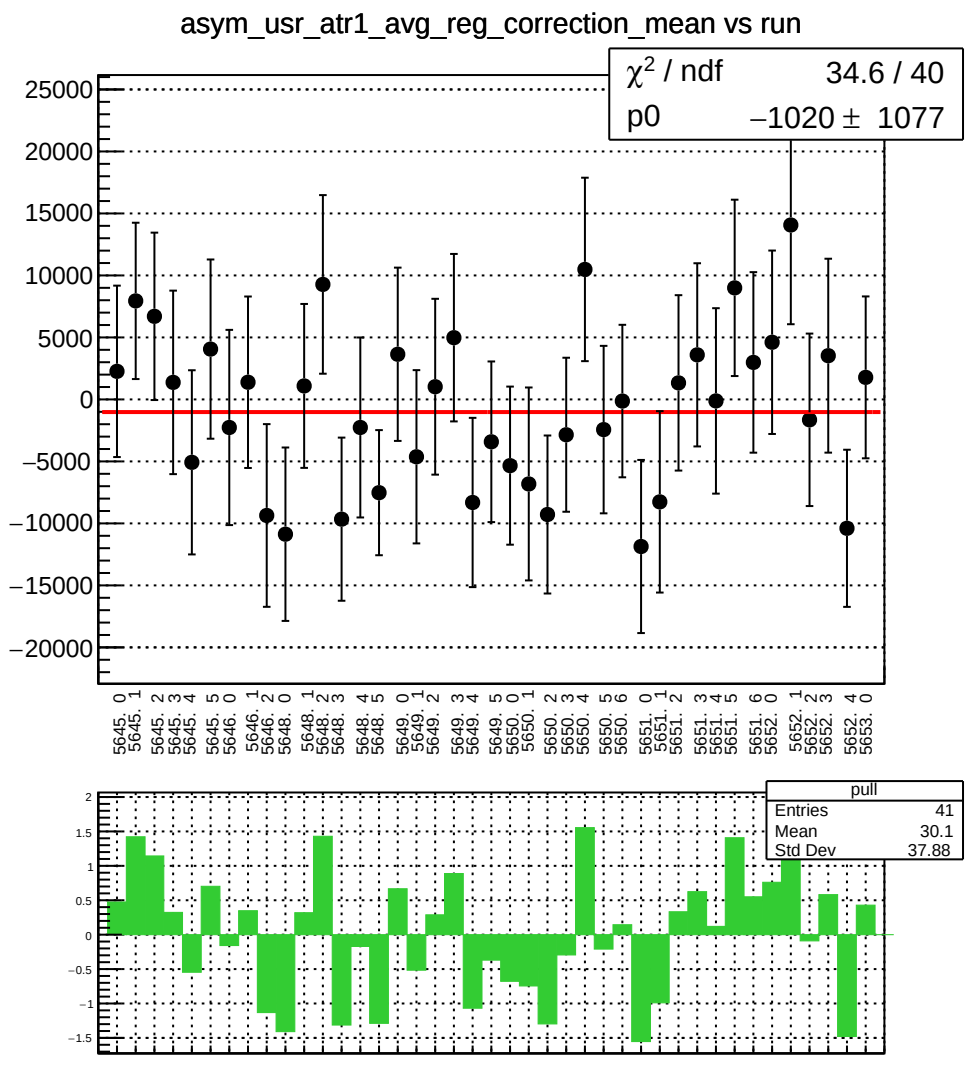

pull1D
Entries 41
Mean 0.1267
Std Dev 0.8782
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

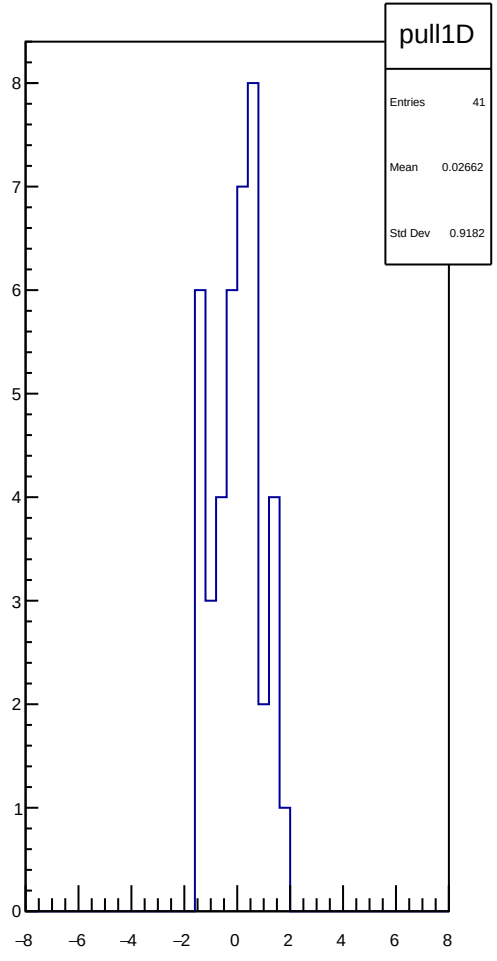

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.618e+05 / 40
p0 1.084e−10 ± 1.491e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

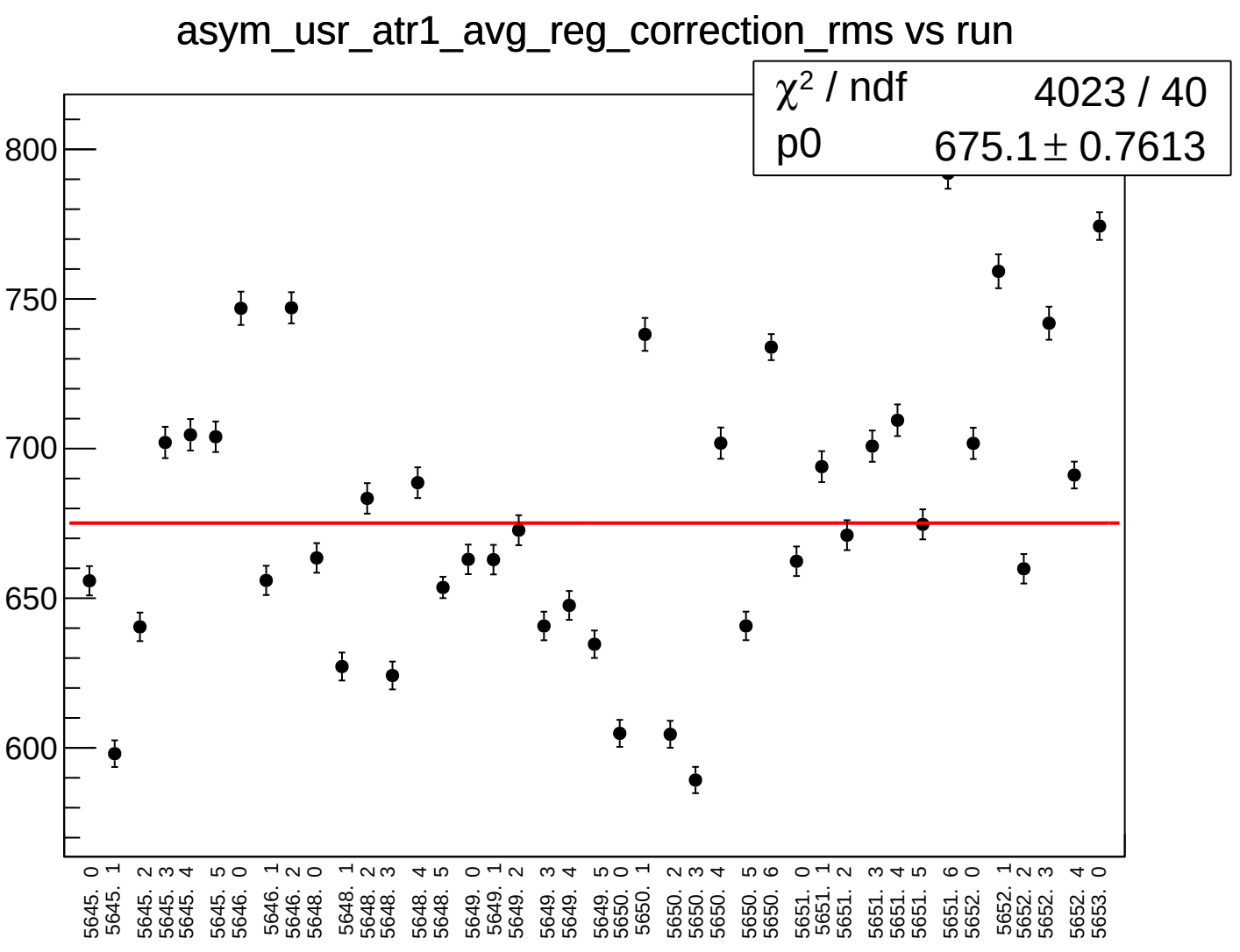

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 61.4 / 40
p0 1108 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −74.18
Std Dev 0
3
2
1
0
−1
−2

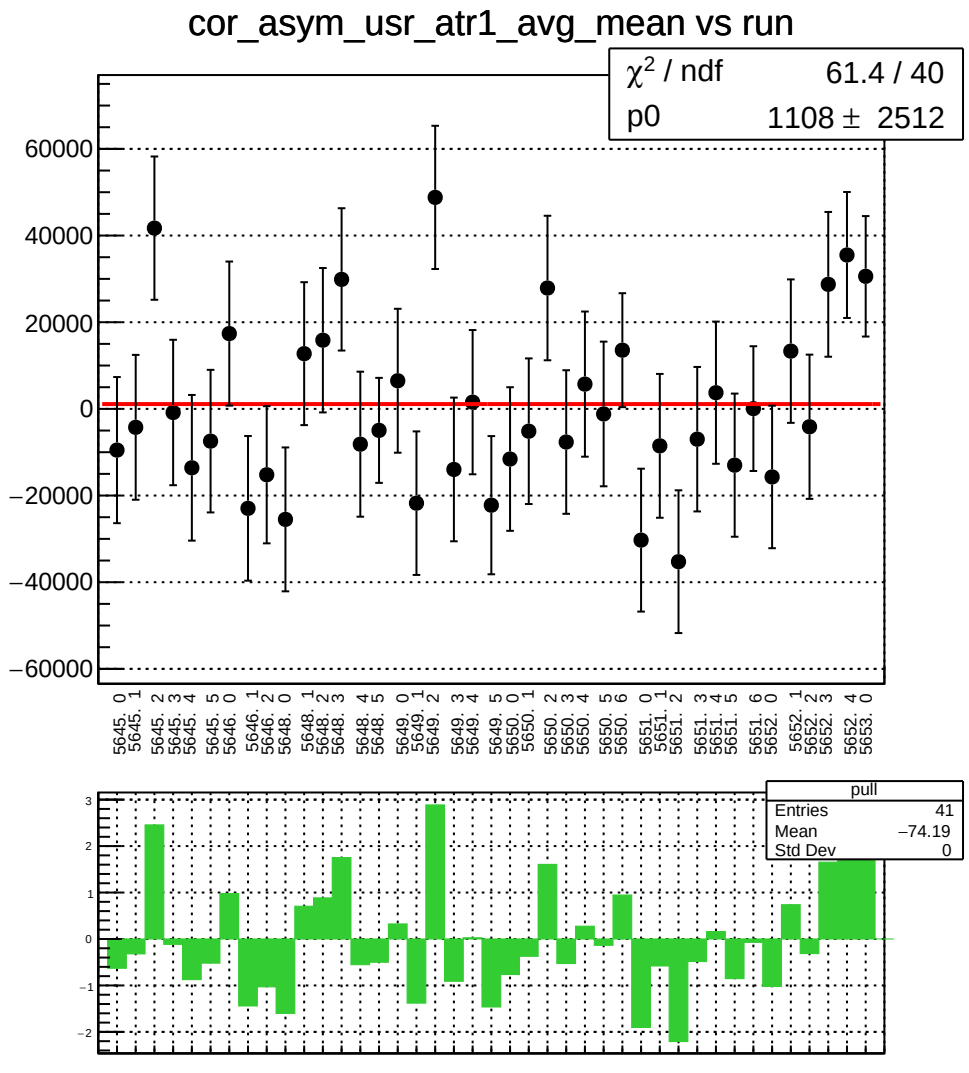

pull1D
Entries 41
Mean −0.0172
Std Dev 1.224
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

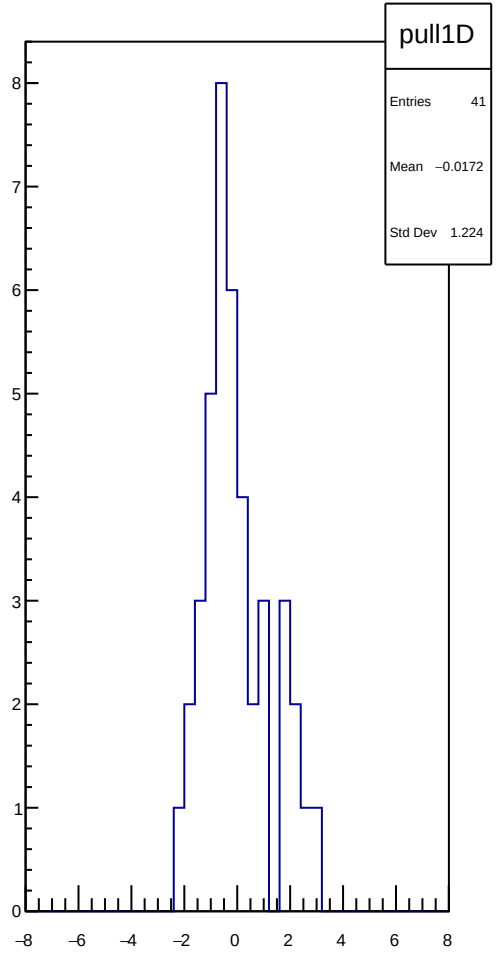

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 96.2 / 40
p0 1579 ± 1.776
1660
1640
1620
1600
1580
1560
1540
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

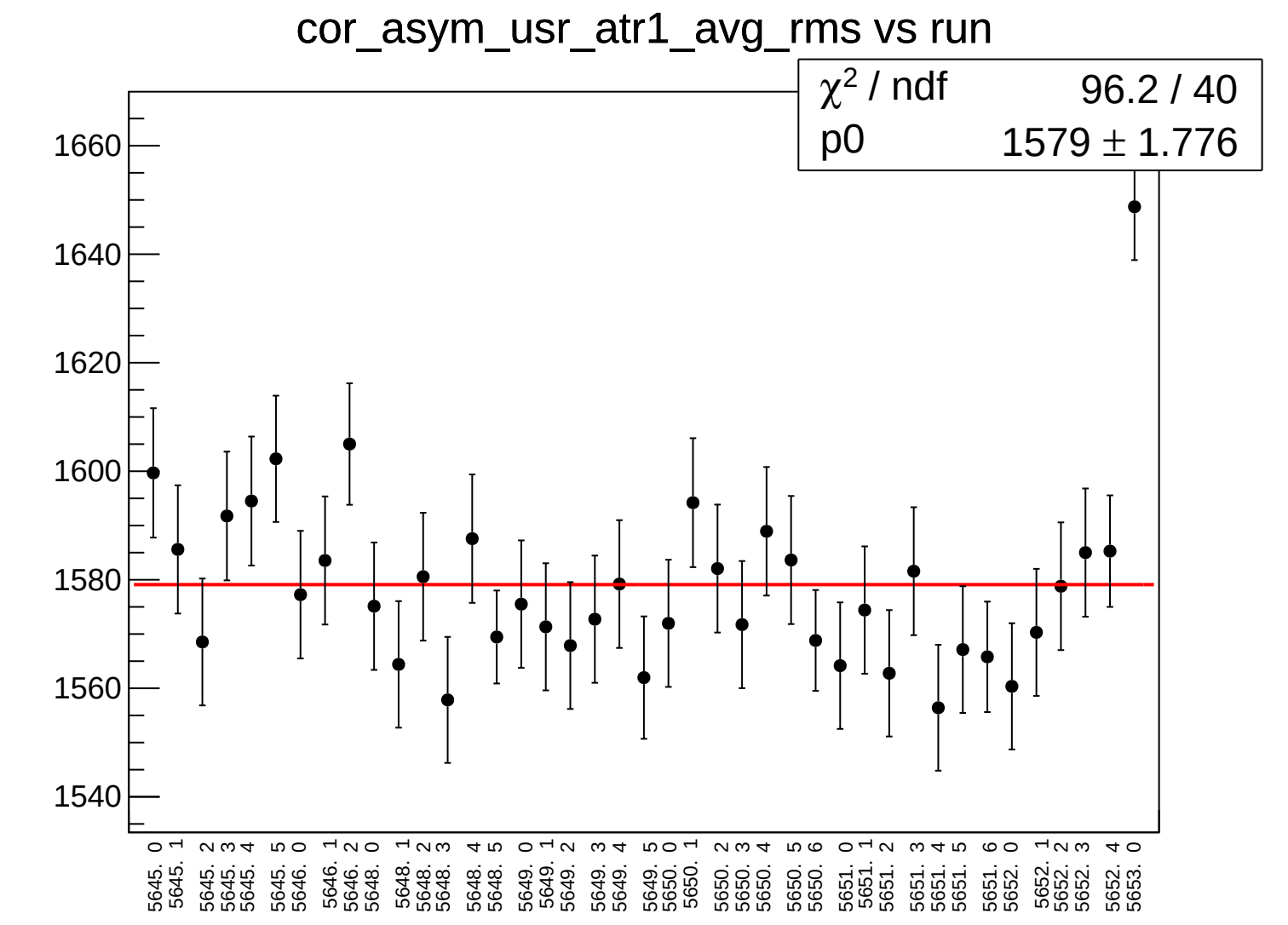

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 34.6 / 40
p0 −1020 ± 1077
pull
Entries 41
Mean 30.1
Std Dev 37.88

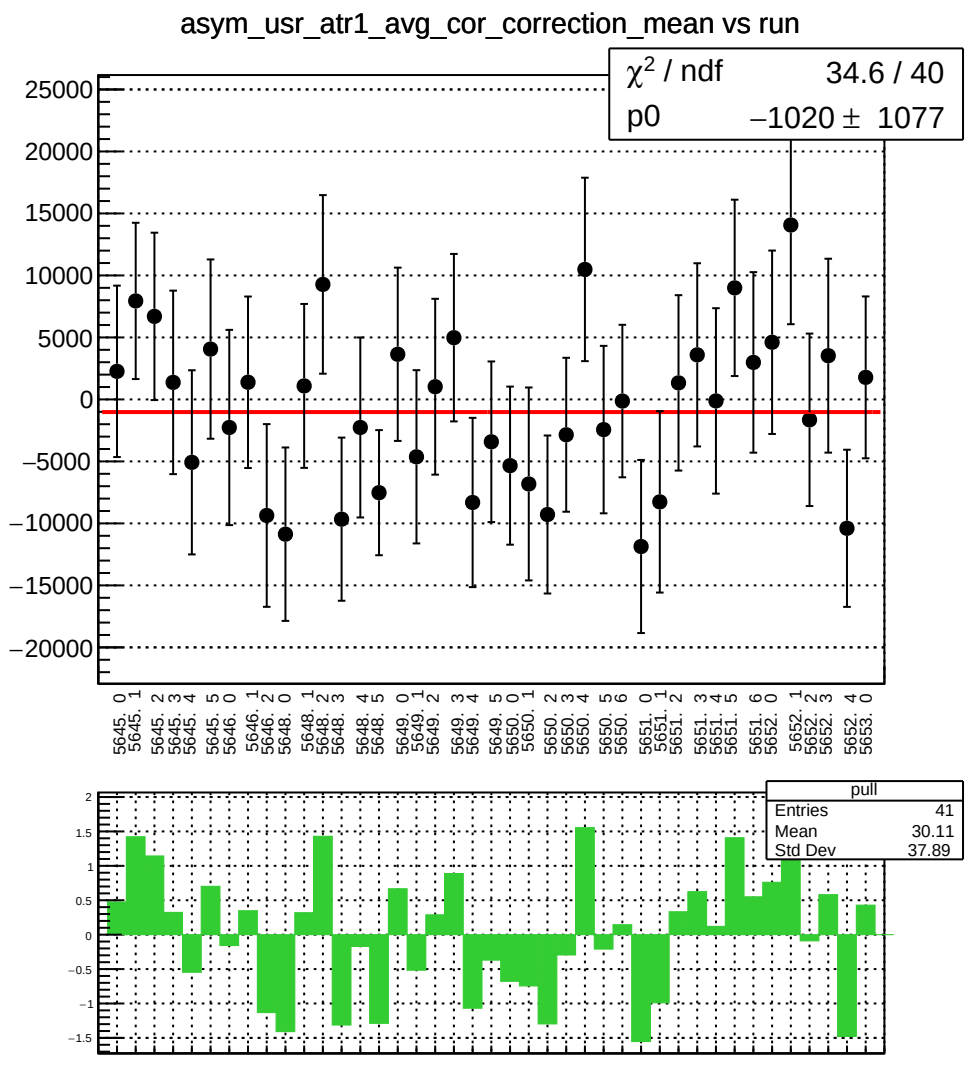

pull1D
Entries 41
Mean 0.02662
Std Dev 0.9182

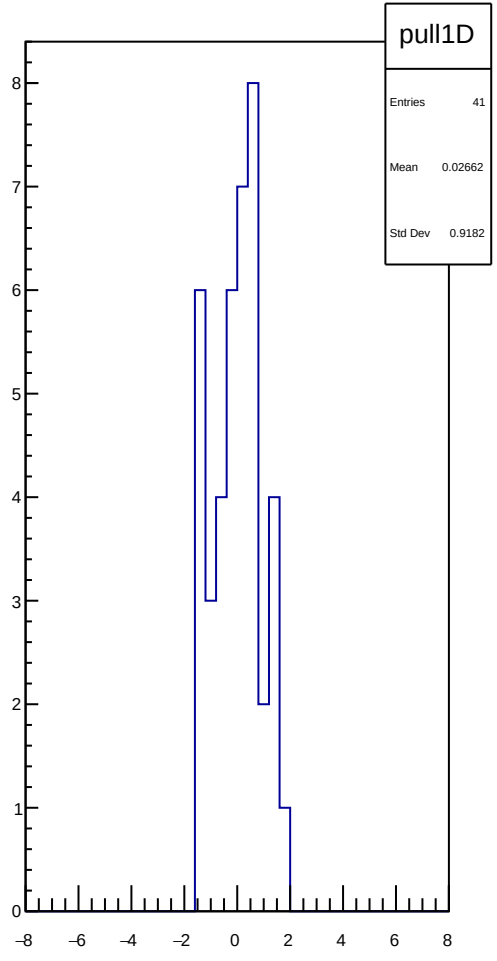

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4023 / 40
p0 675.1 ± 0.7613
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

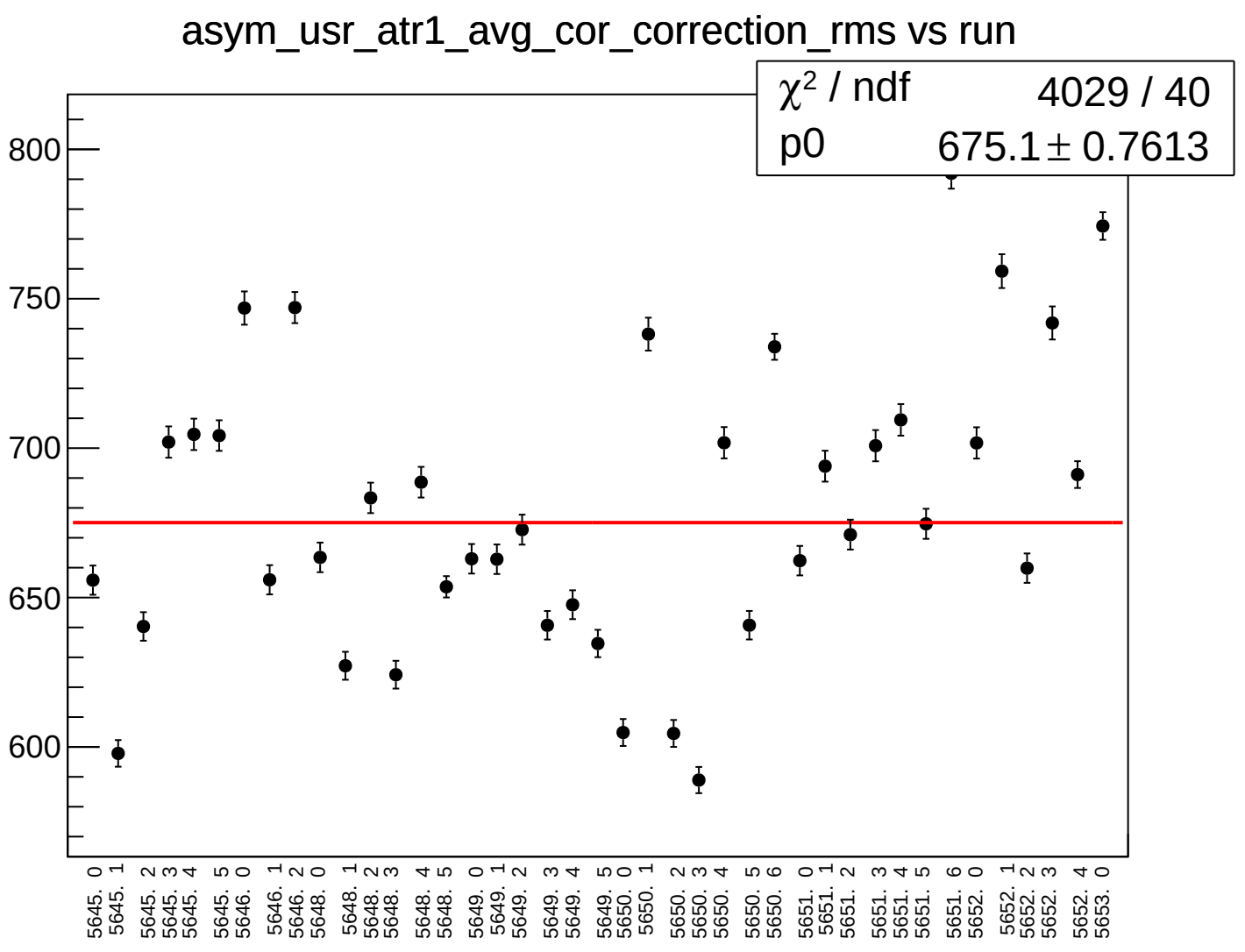

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 61.4 / 40
p0 1108 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −74.19
Std Dev 0
3
2
1
0
−1
−2

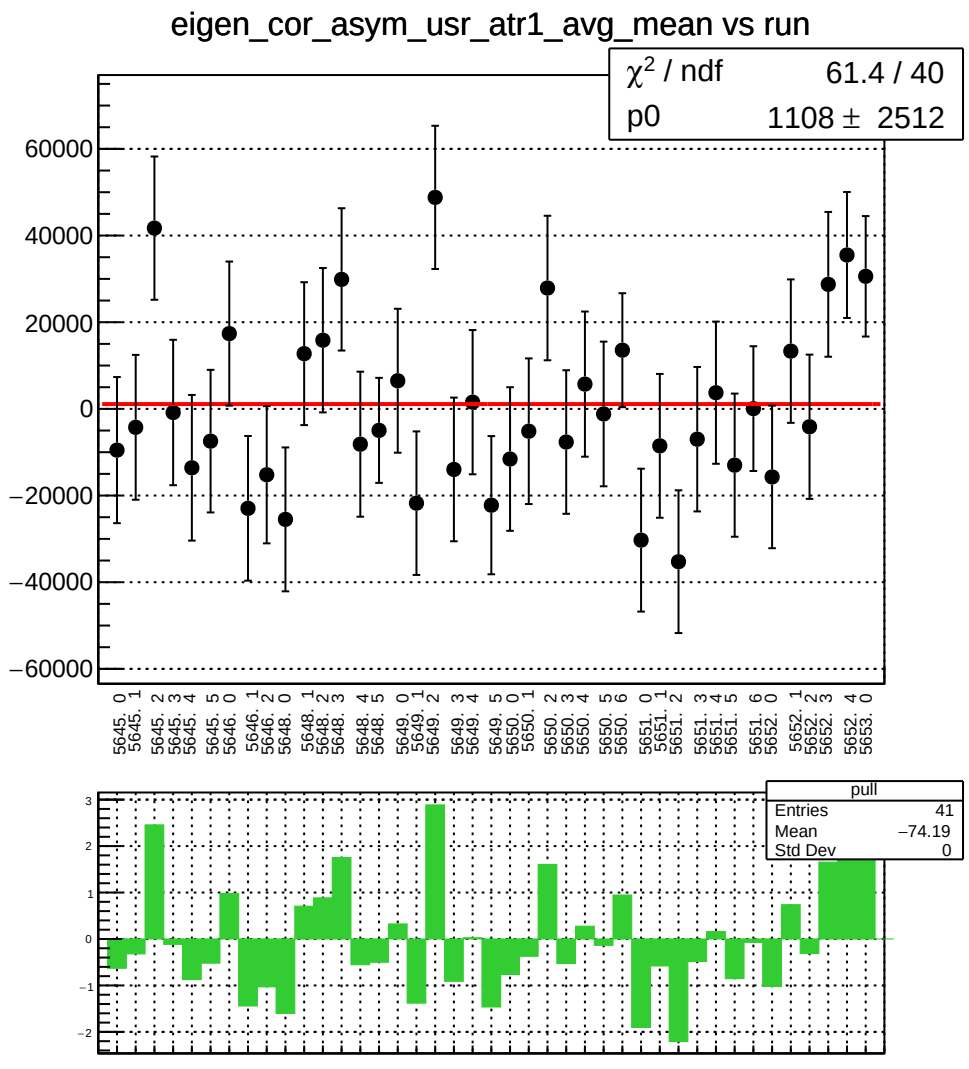

pull1D
Entries 41
Mean −0.0172
Std Dev 1.224
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

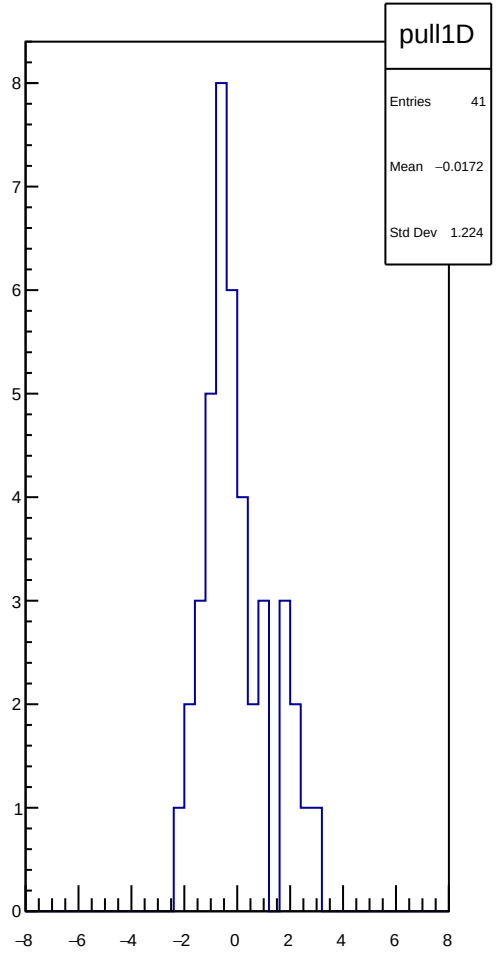

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 96.2 / 40
p0 1579 ± 1.776
1660
1640
1620
1600
1580
1560
1540
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

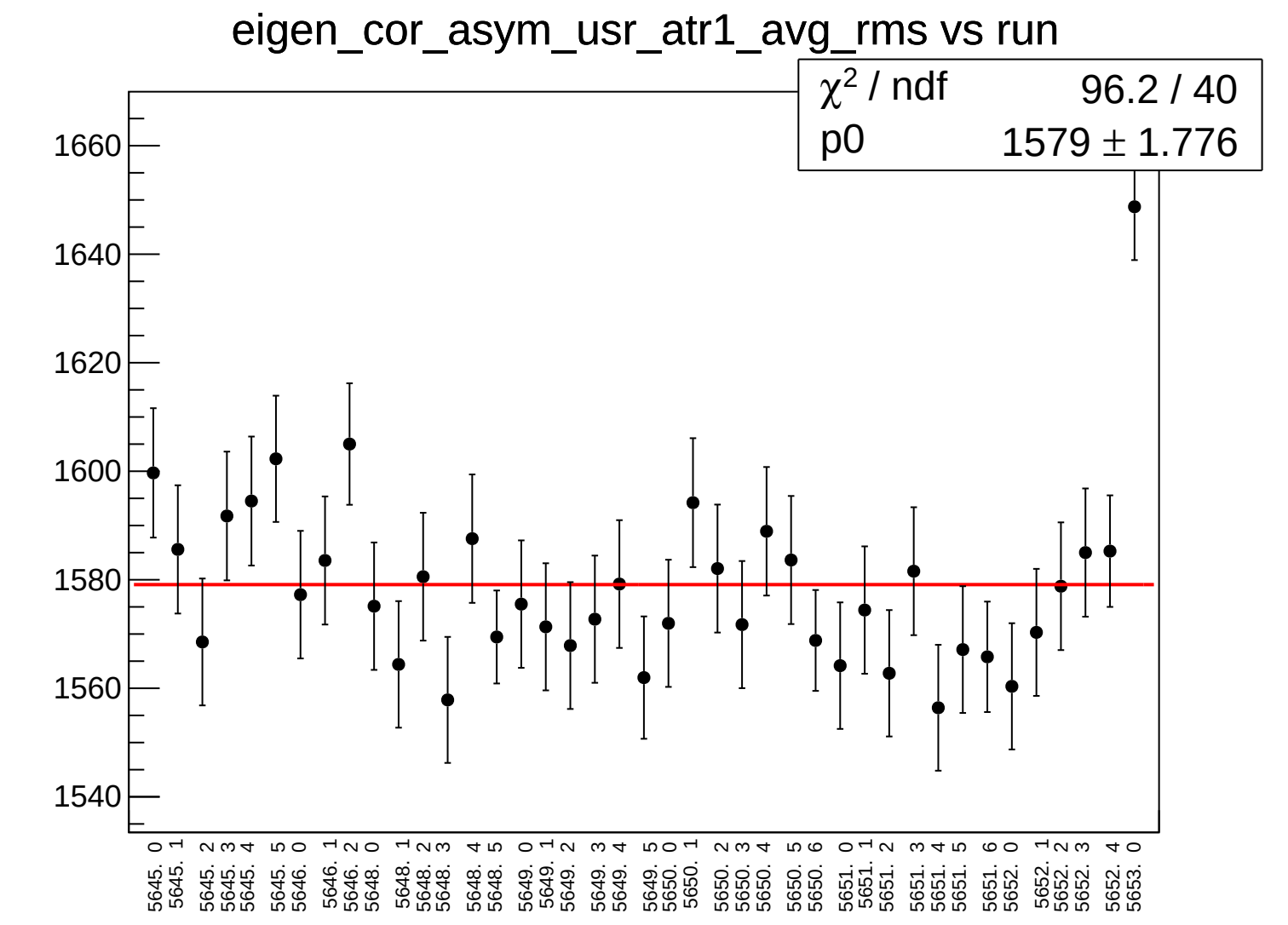

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 34.6 / 40
p0 −1020 ± 1077
pull
Entries 41
Mean 30.11
Std Dev 37.89

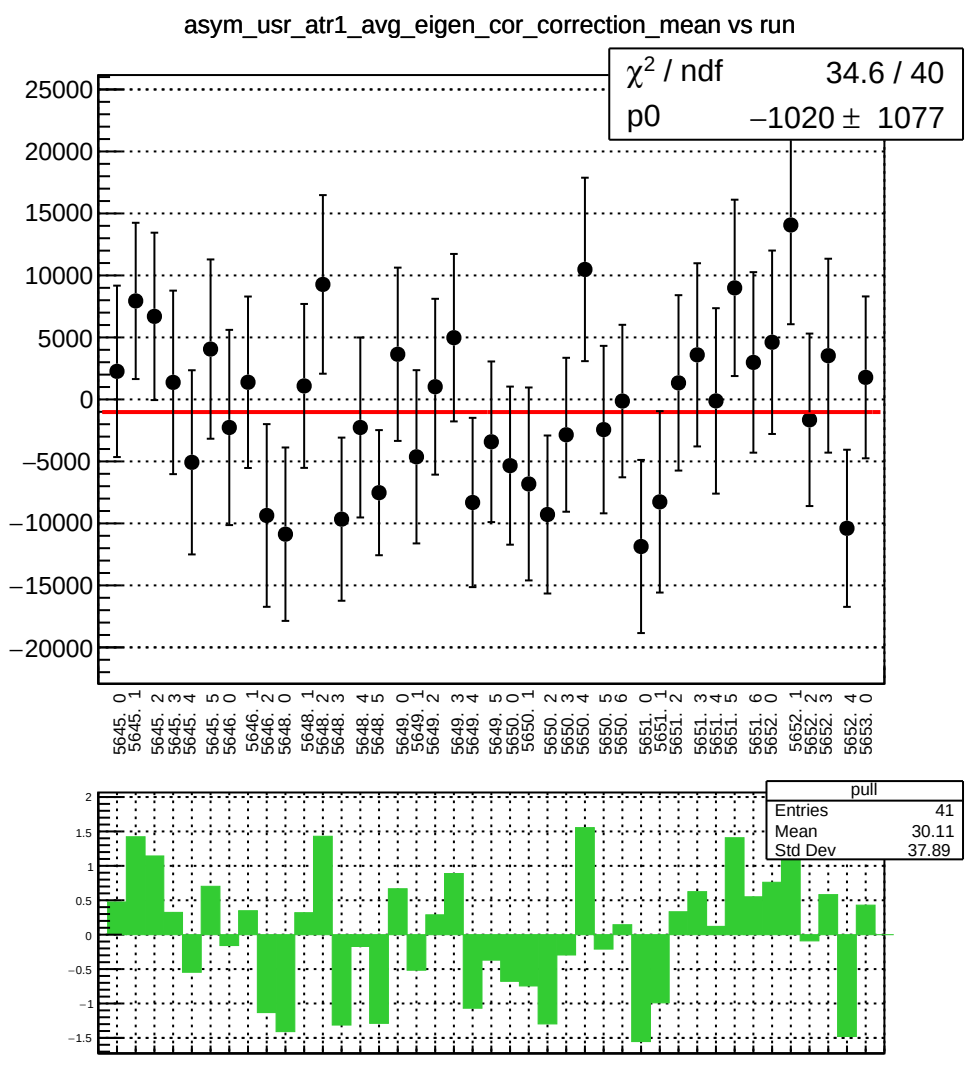

pull1D
Entries 41
Mean 0.02662
Std Dev 0.9182

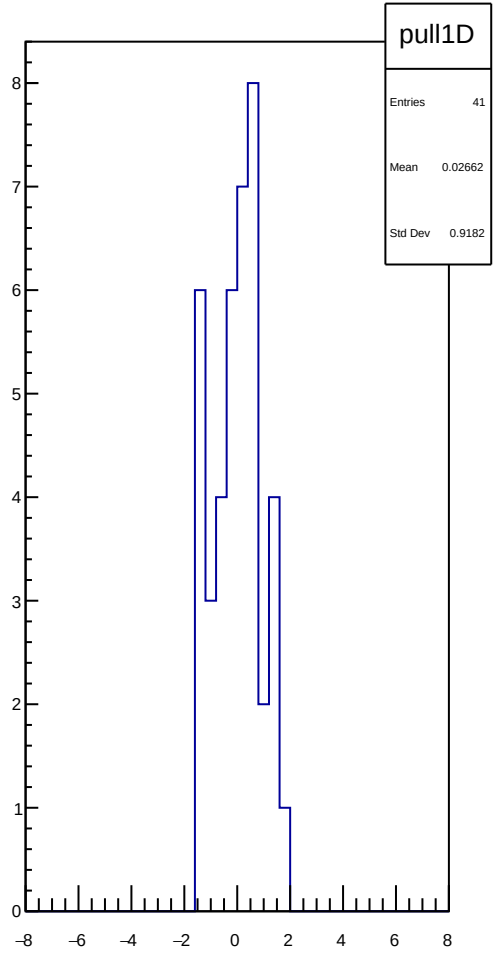

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4029 / 40
p0 675.1 ± 0.7613
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

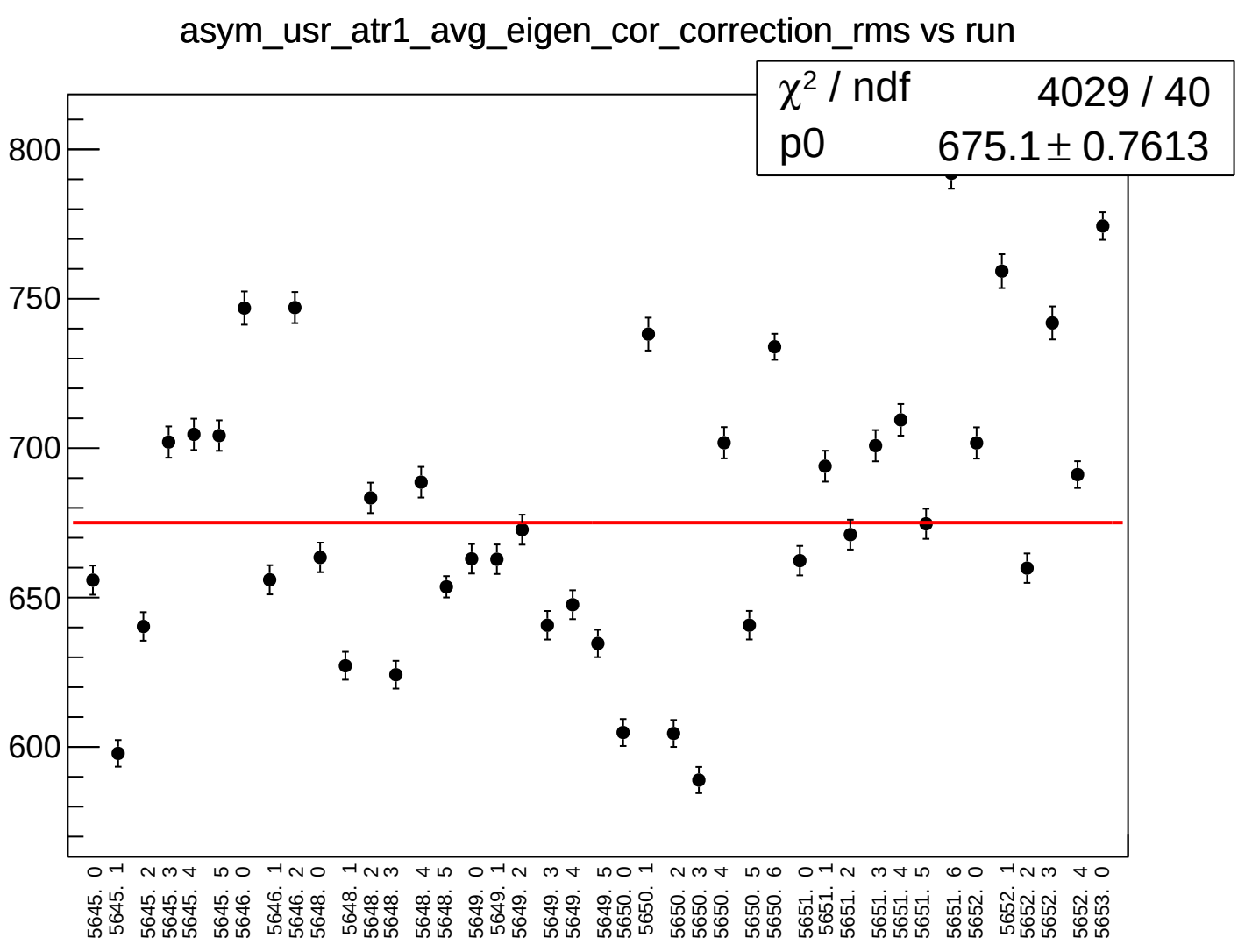

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 61.4 / 40
p0 1108 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −74.19
Std Dev 0
3
2
1
0
−1
−2

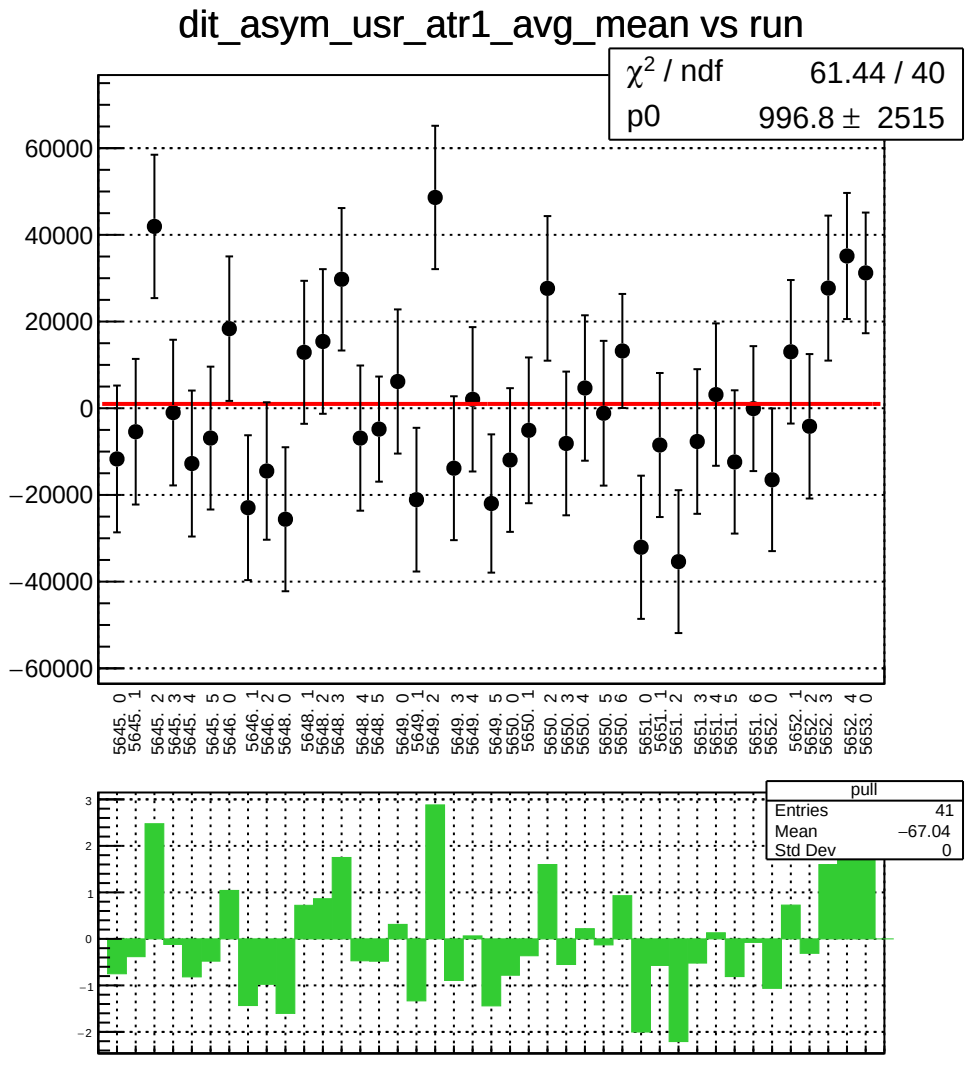

pull1D
Entries 41
Mean −0.0172
Std Dev 1.224
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

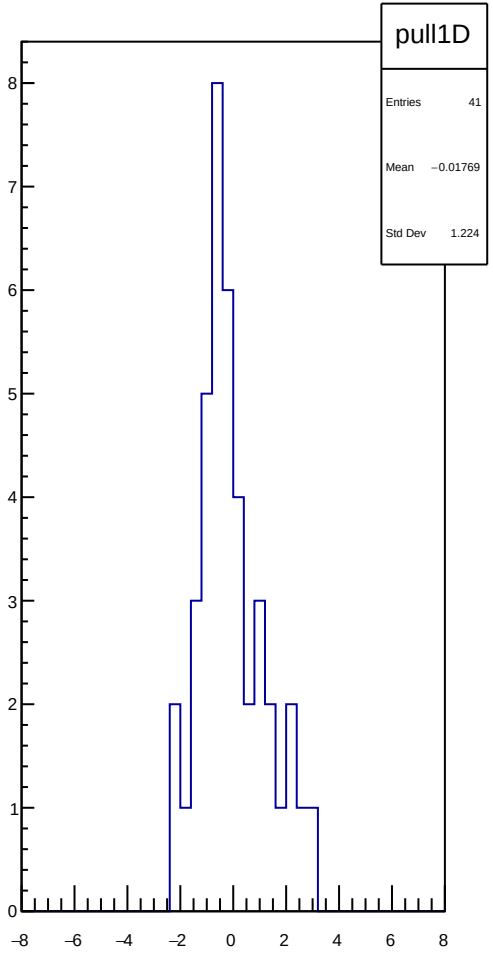

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 96.2 / 40
p0 1579 ± 1.776
1660
1640
1620
1600
1580
1560
1540
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

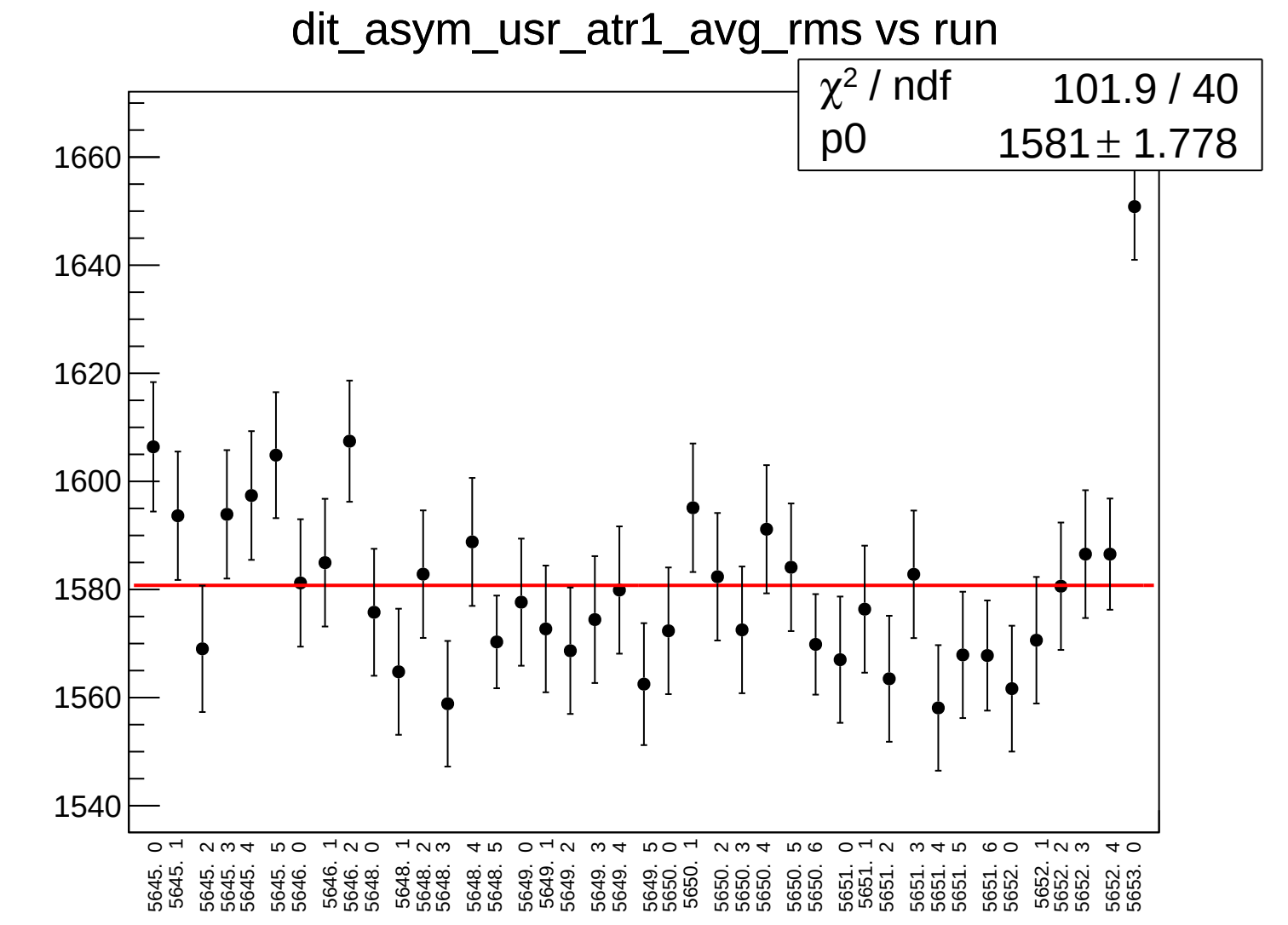

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.6 / 40
p0 −1020 ± 1077
pull
Entries 41
Mean 30.11
Std Dev 37.89

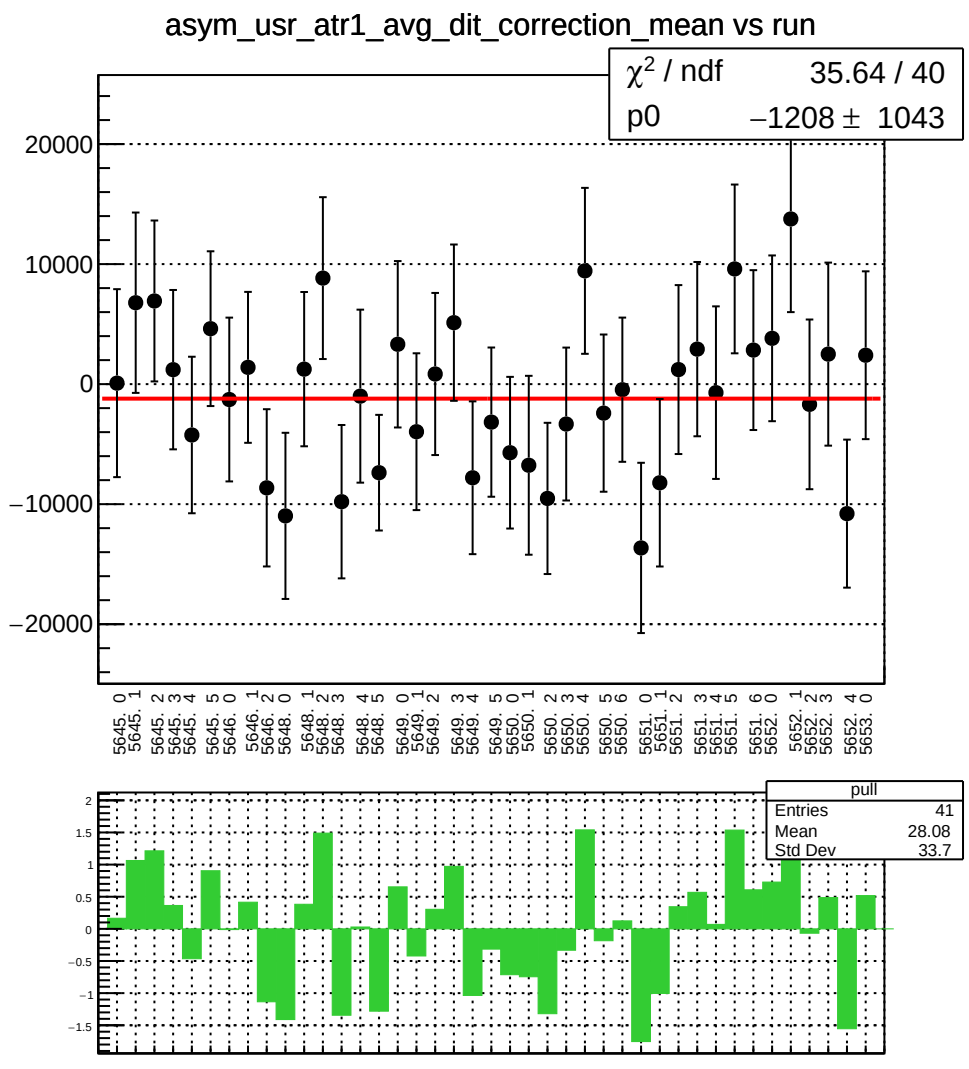

pull1D
Entries 41
Mean 0.02662
Std Dev 0.9182

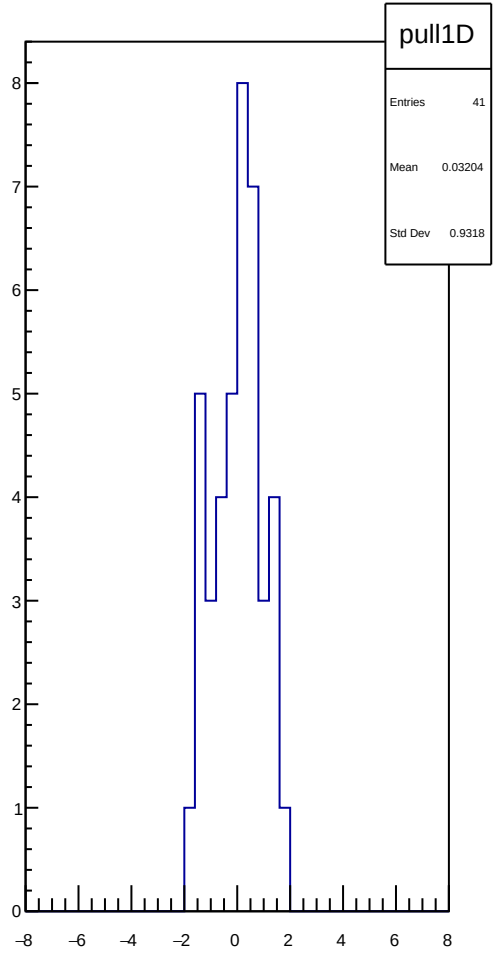

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4029 / 40
p0 675.1 ± 0.7613
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

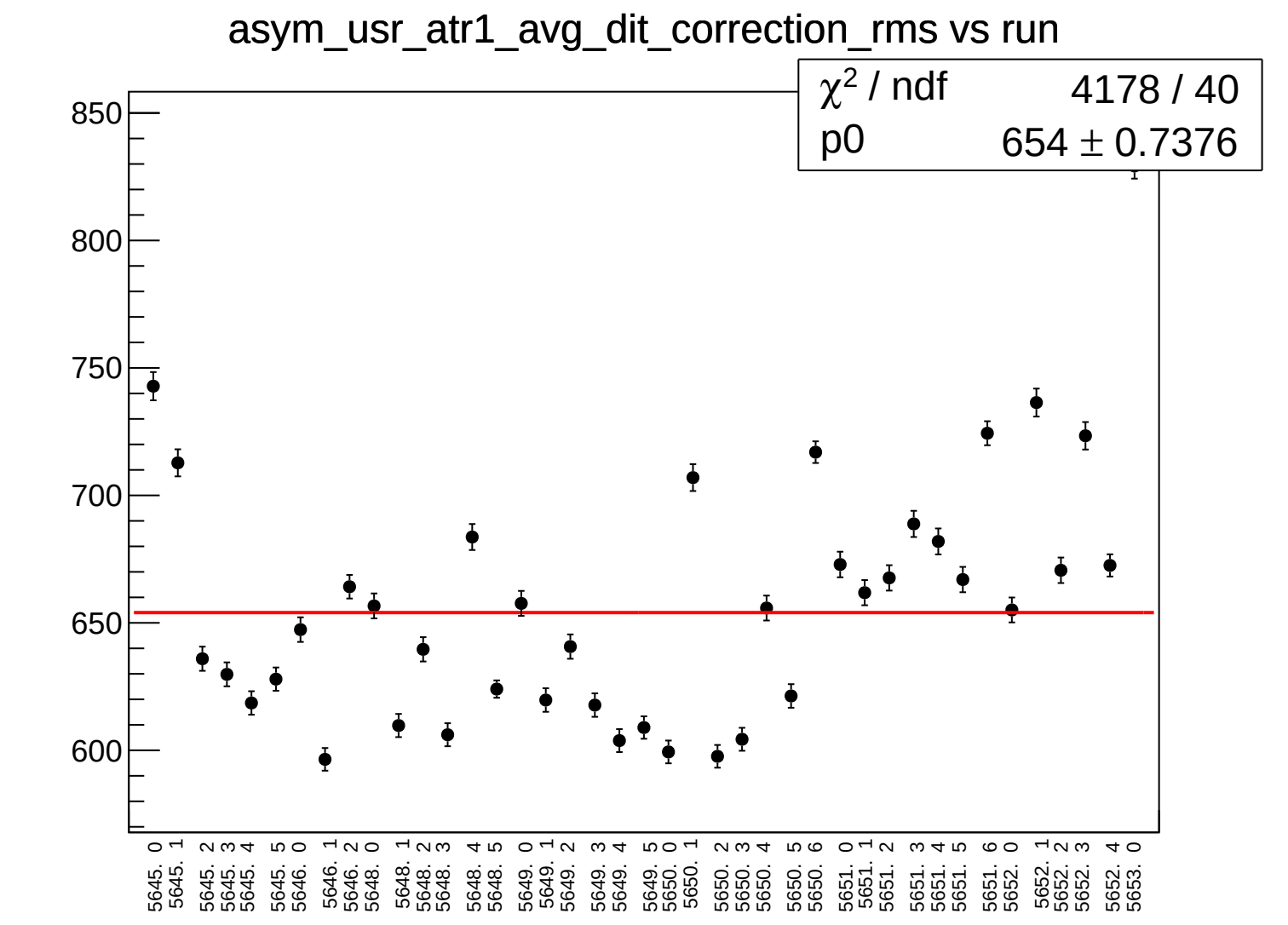

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 61.44 / 40
p0 996.8 ± 2515
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.04
Std Dev 0
3
2
1
0
−1
−2

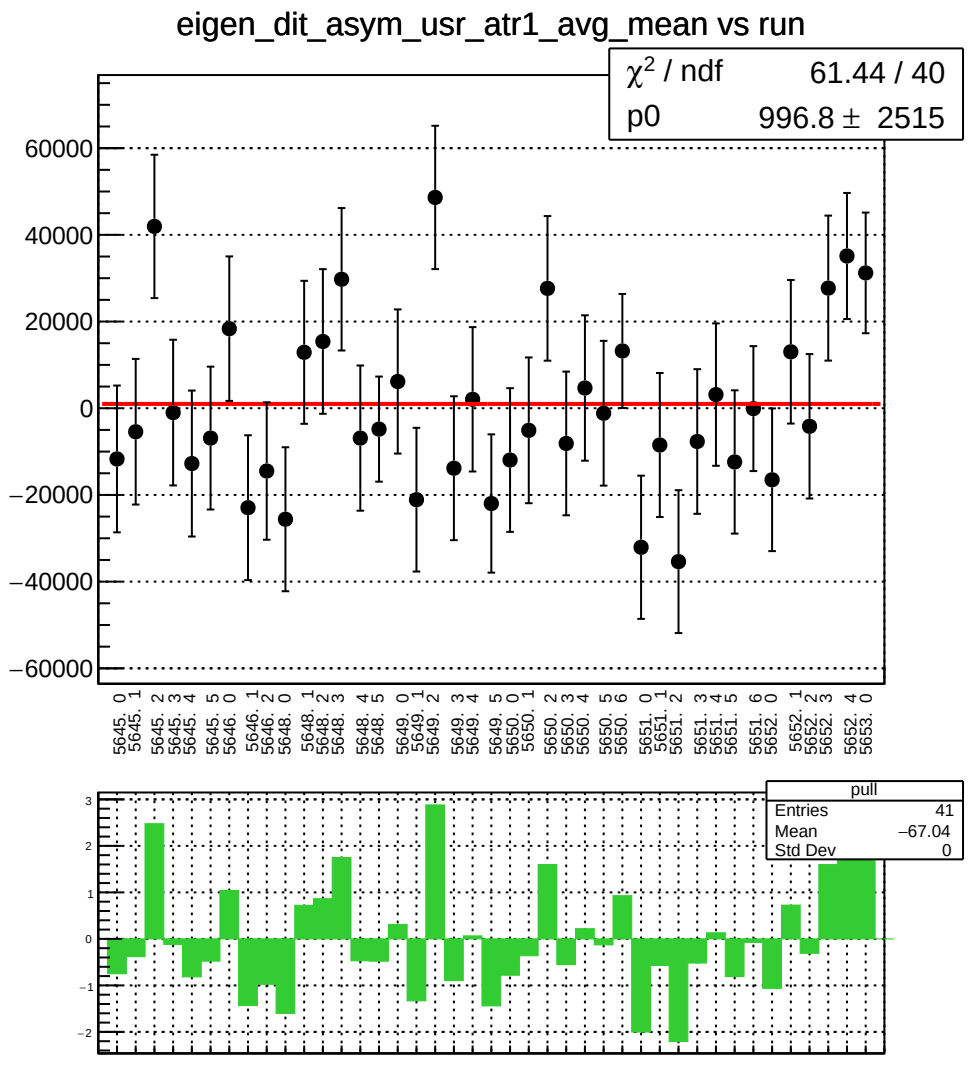

pull1D
Entries 41
Mean −0.01769
Std Dev 1.224
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

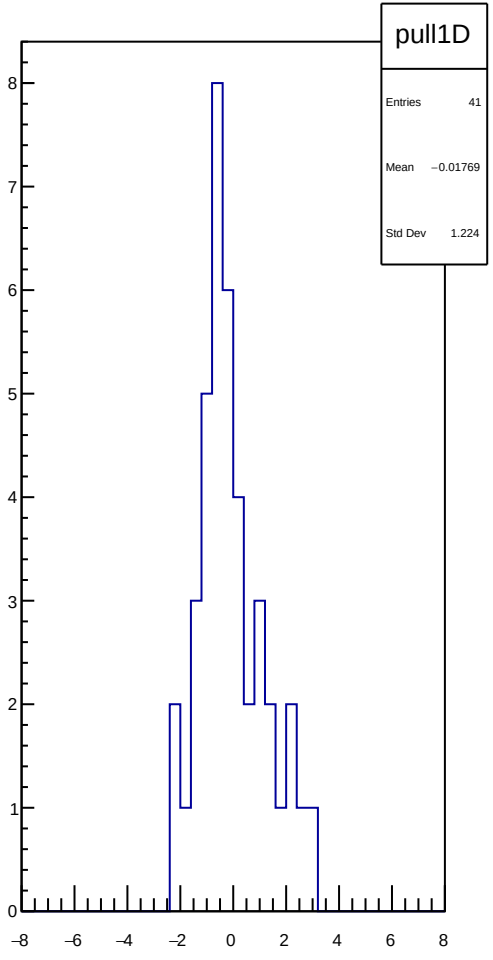

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 101.9 / 40
p0 1581 ± 1.778
1660
1640
1620
1600
1580
1560
1540
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

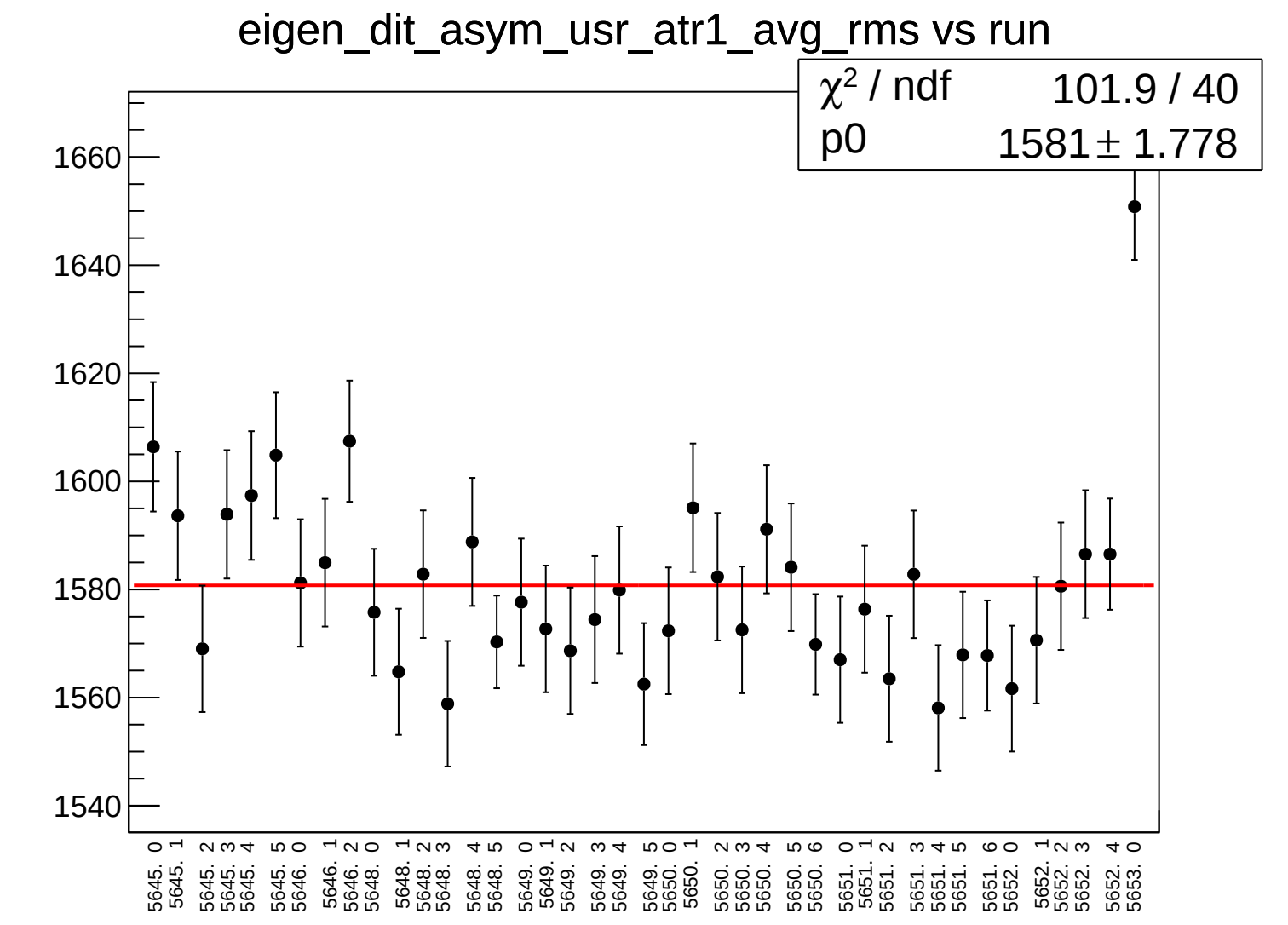

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 35.64 / 40
p0 −1208 ± 1043
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.08
Std Dev 33.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

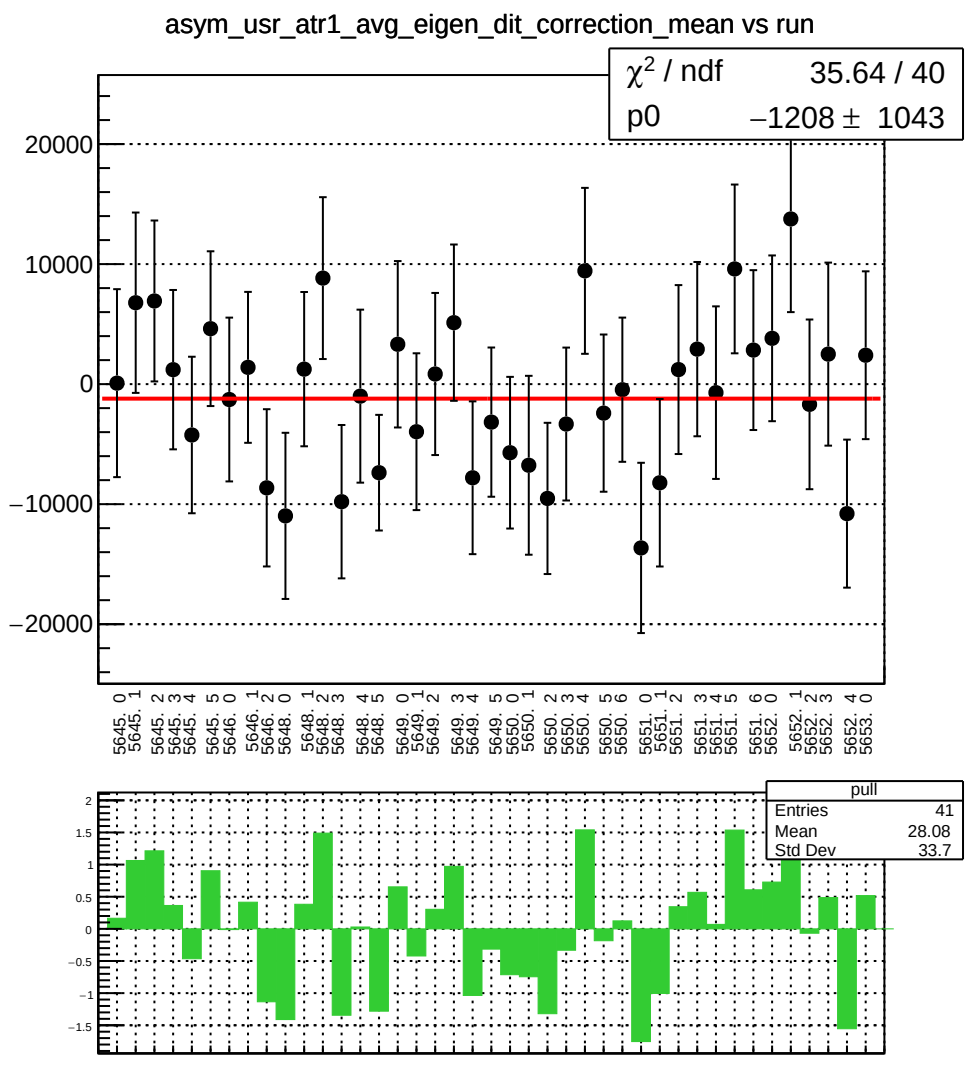

pull1D
Entries 41
Mean 0.03204
Std Dev 0.9318
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

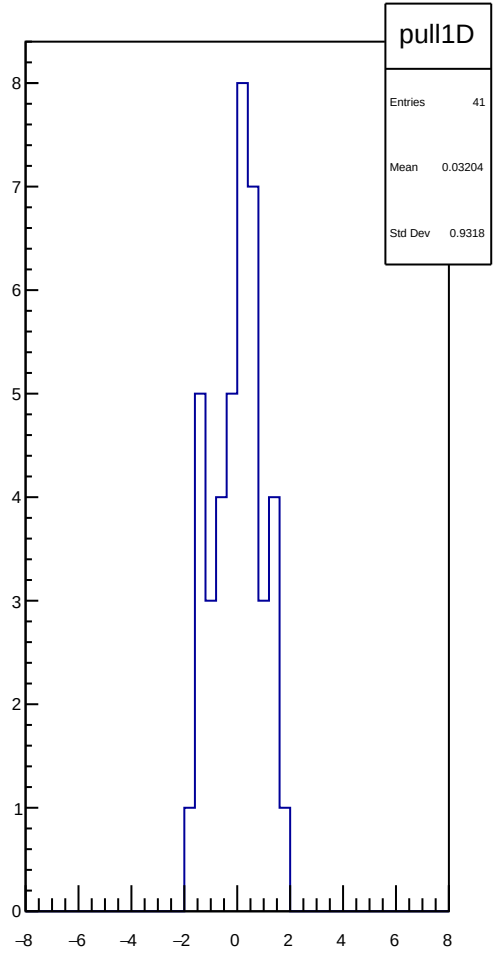

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4178 / 40
p0 654 ± 0.7376
850
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

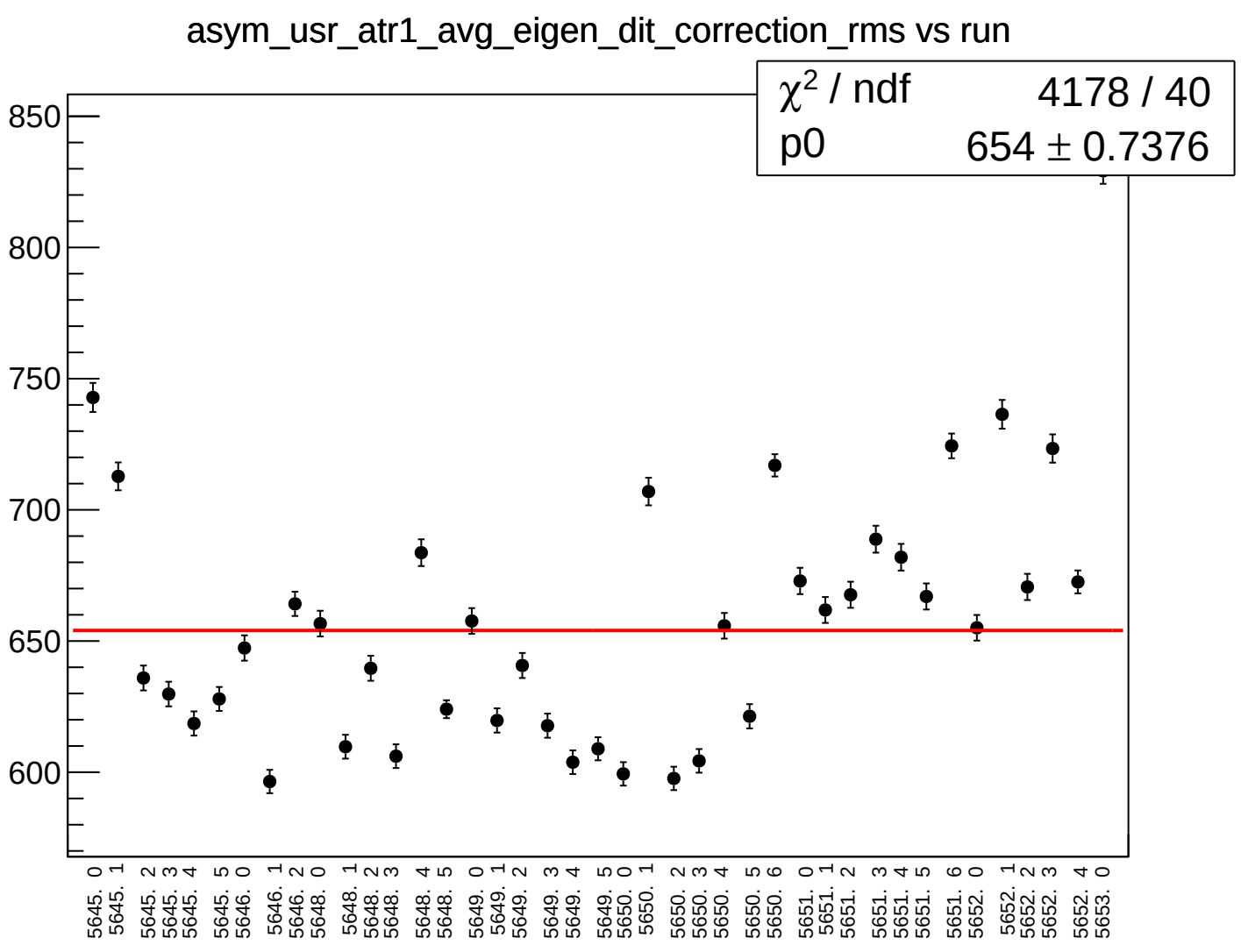

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 61.44 / 40
p0 996.8 ± 2515
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.04
Std Dev 0
3
2
1
0
−1
−2

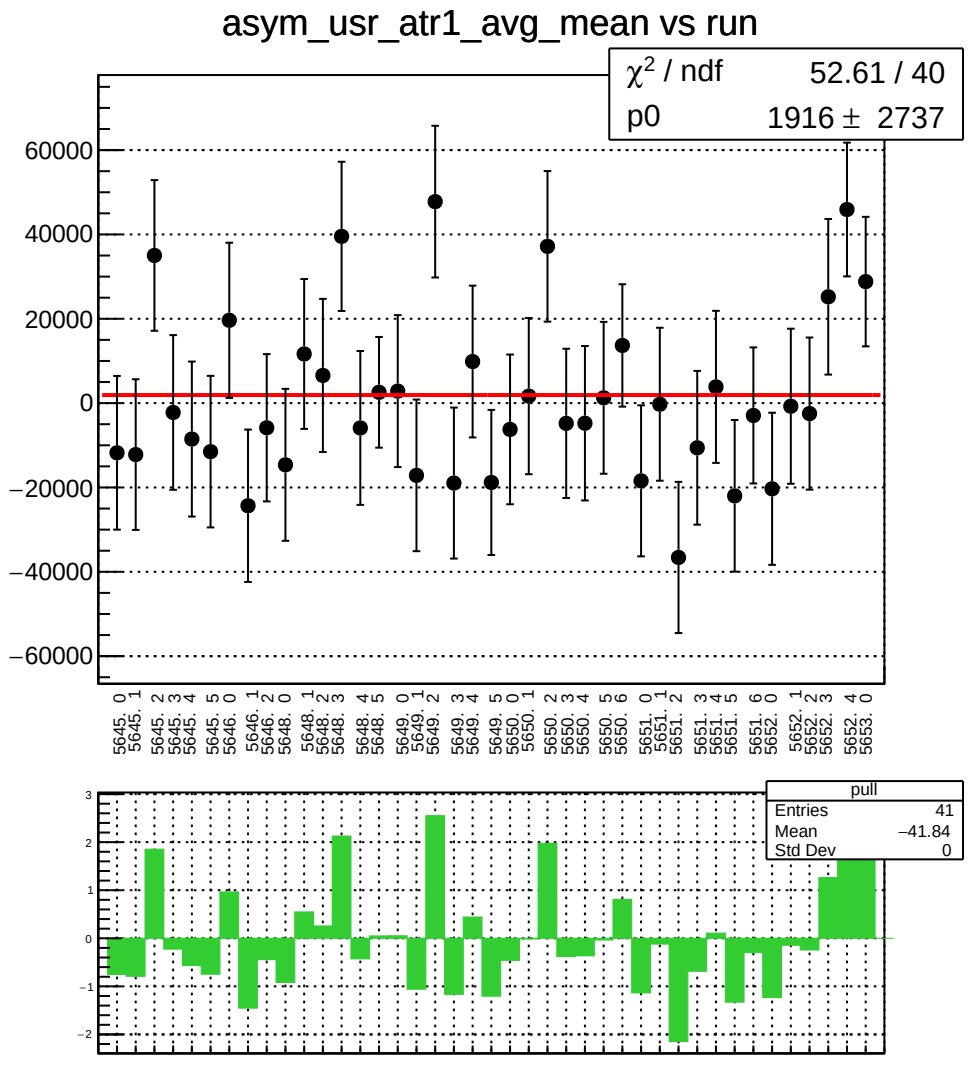

pull1D
Entries 41
Mean −0.01769
Std Dev 1.224
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

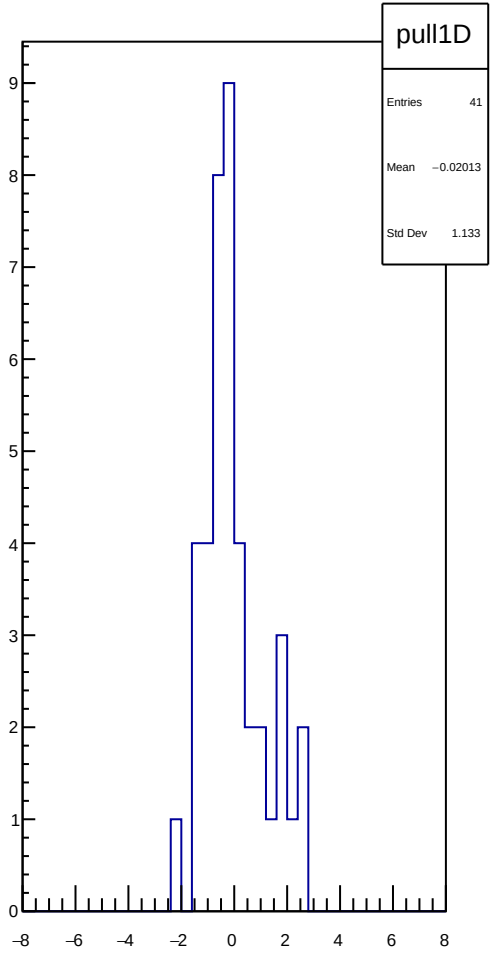

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 101.9 / 40
p0 1581 ± 1.778
1660
1640
1620
1600
1580
1560
1540
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

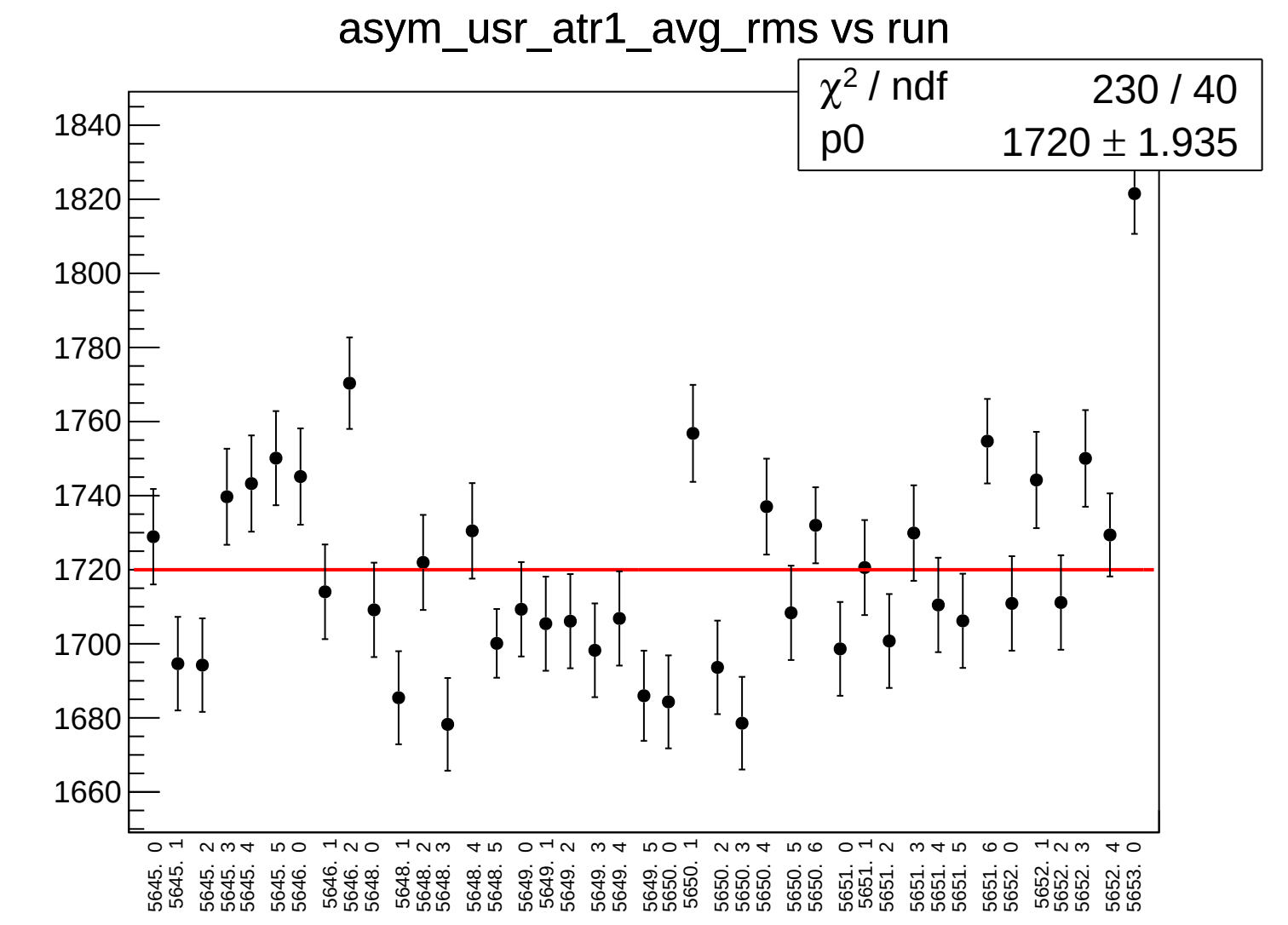

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.64 / 40
p0 −1208 ± 1043
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.08
Std Dev 33.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

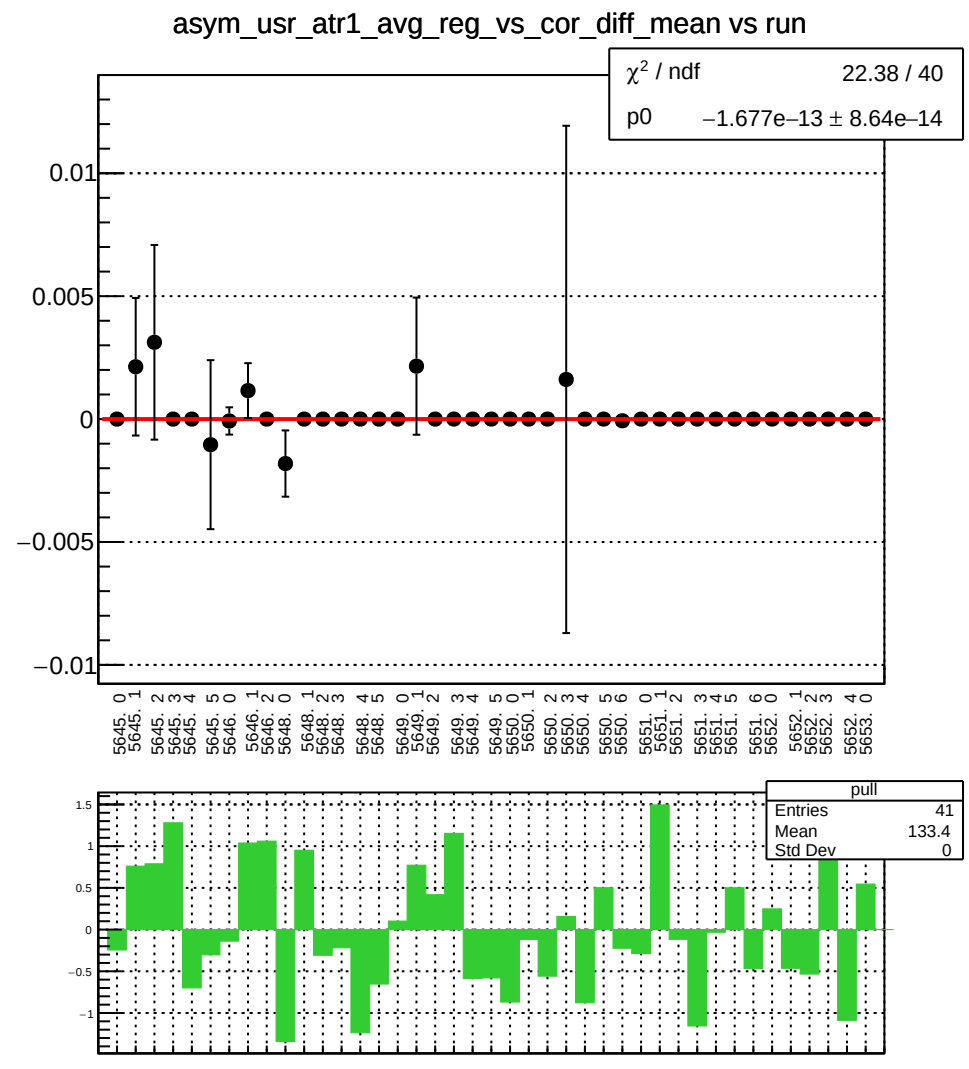

pull1D
Entries 41
Mean 0.03204
Std Dev 0.9318
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

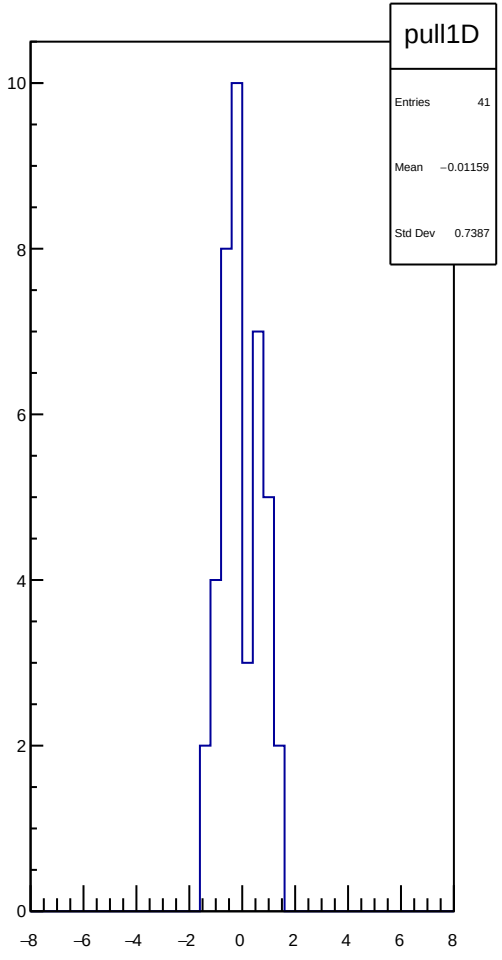

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4178 / 40
p0 654 ± 0.7376
850
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

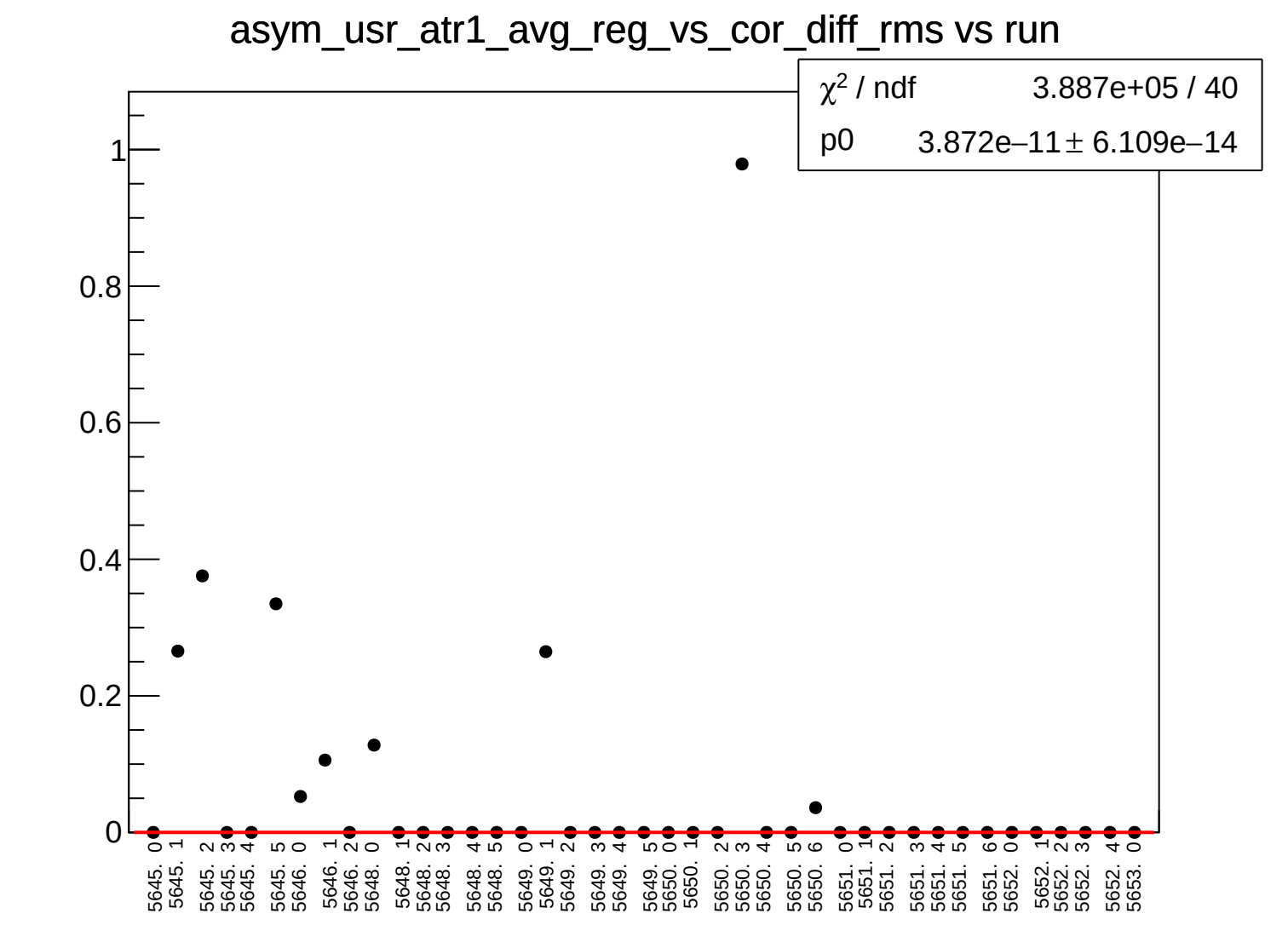

asym_usr_atr1_avg_mean vs run
χ² / ndf 52.61 / 40
p0 1916 ± 2737
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −41.84
Std Dev 0
3
2
1
0
−1
−2

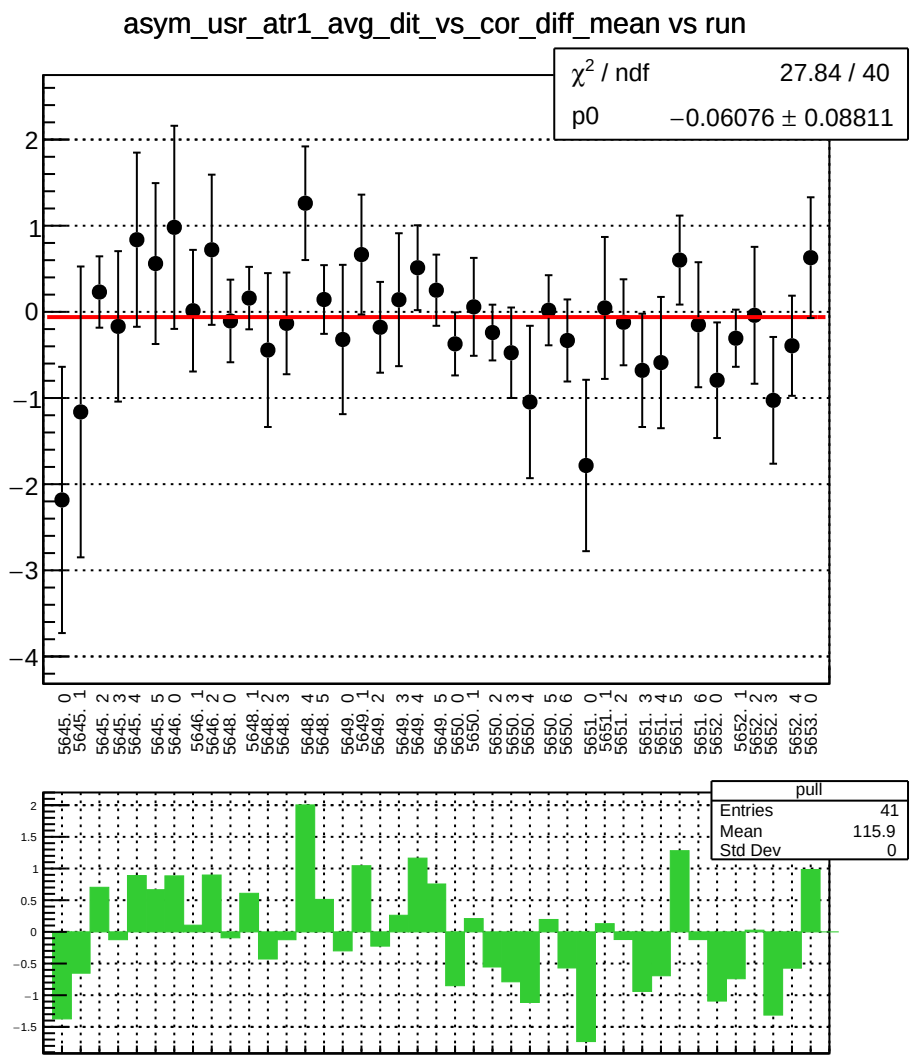

pull1D
Entries 41
Mean −0.02013
Std Dev 1.133
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

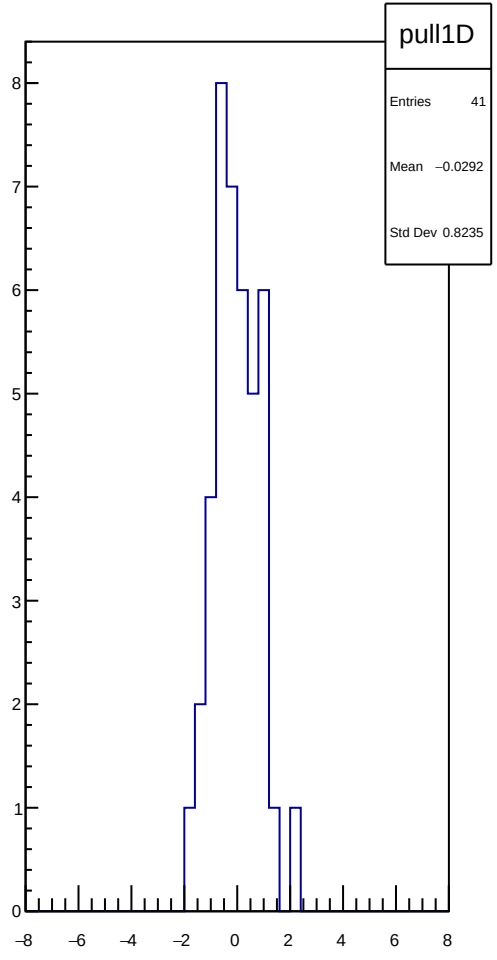

asym_usr_atr1_avg_rms vs run
χ² / ndf 230 / 40
p0 1720 ± 1.935
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

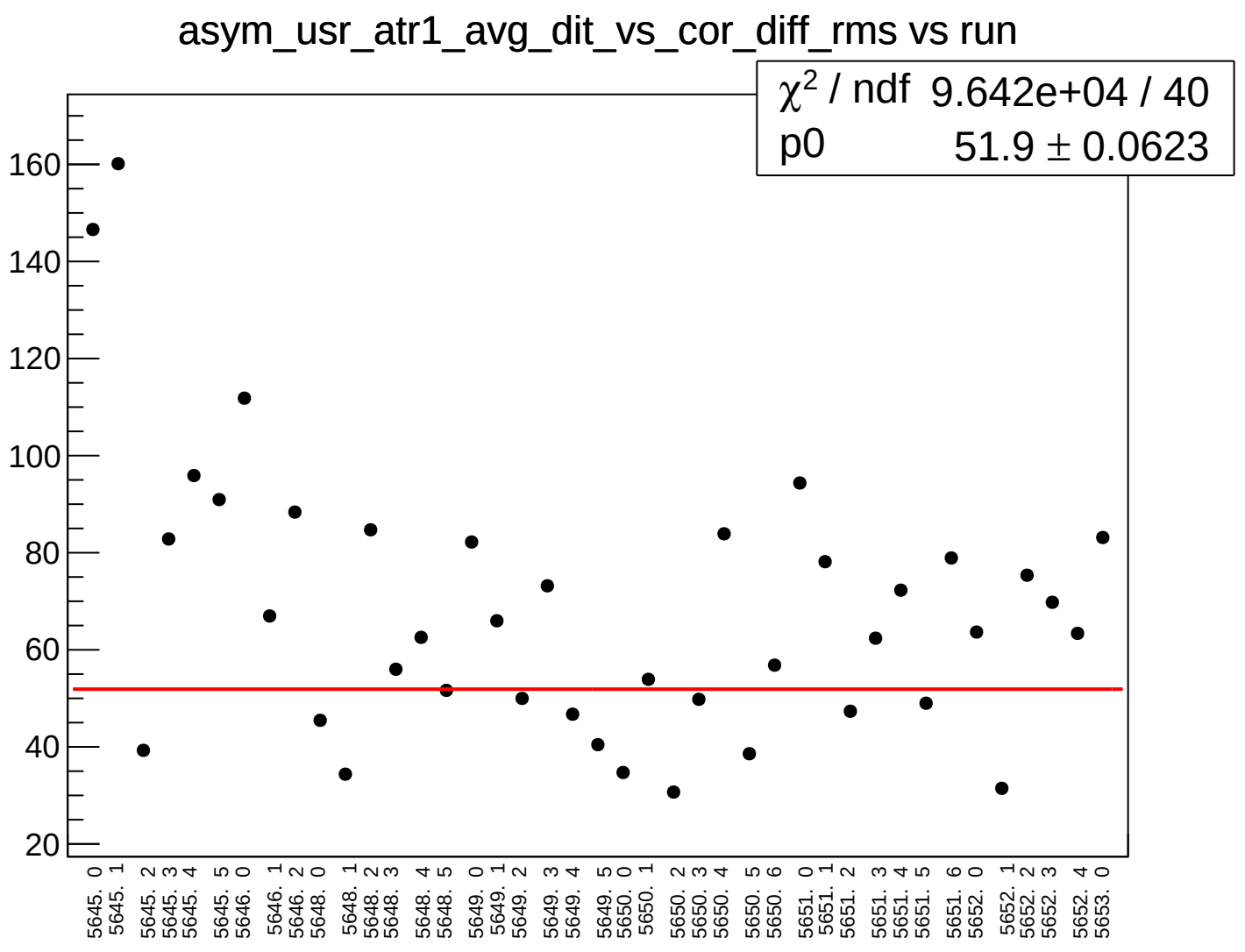

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 22.38 / 40
p0 −1.677e−13 ± 8.64e−14
0.01
0.005
0
−0.005
−0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 133.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

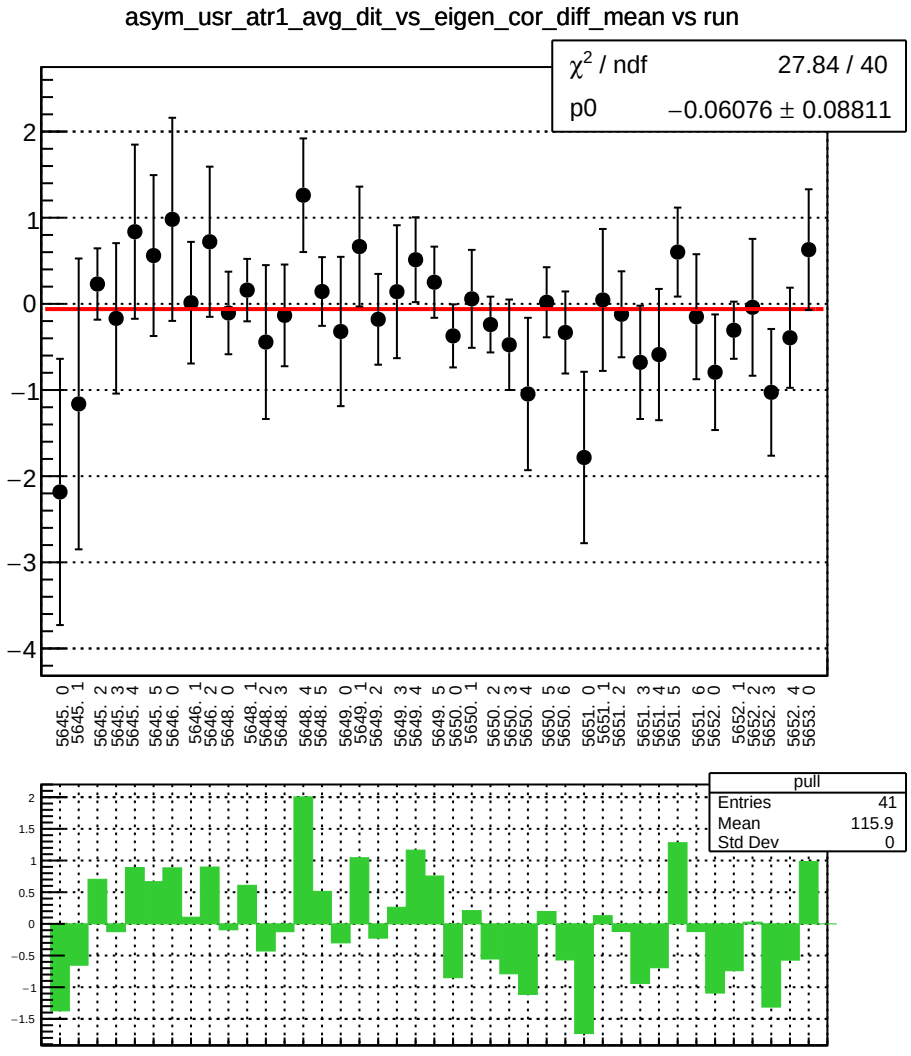

pull1D
Entries 41
Mean −0.01159
Std Dev 0.7387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

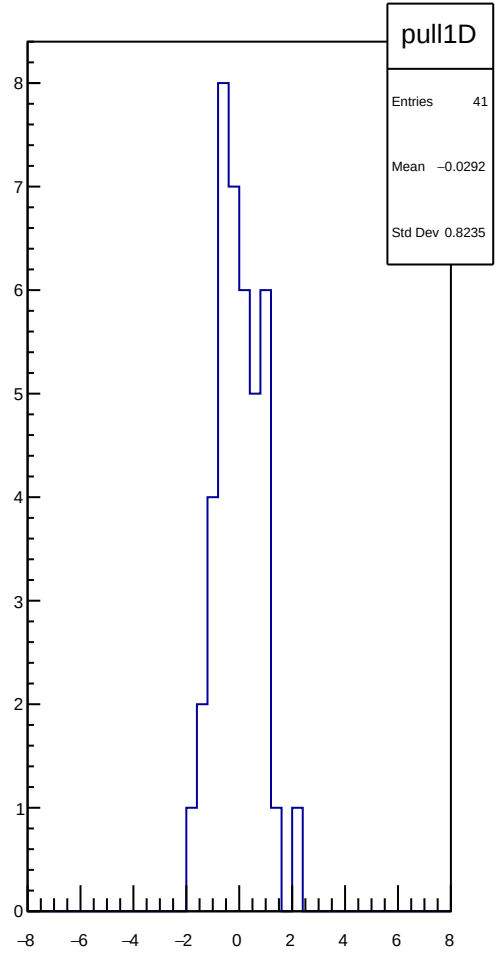

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.887e+05 / 40
p0 3.872e−11 ± 6.109e−14
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

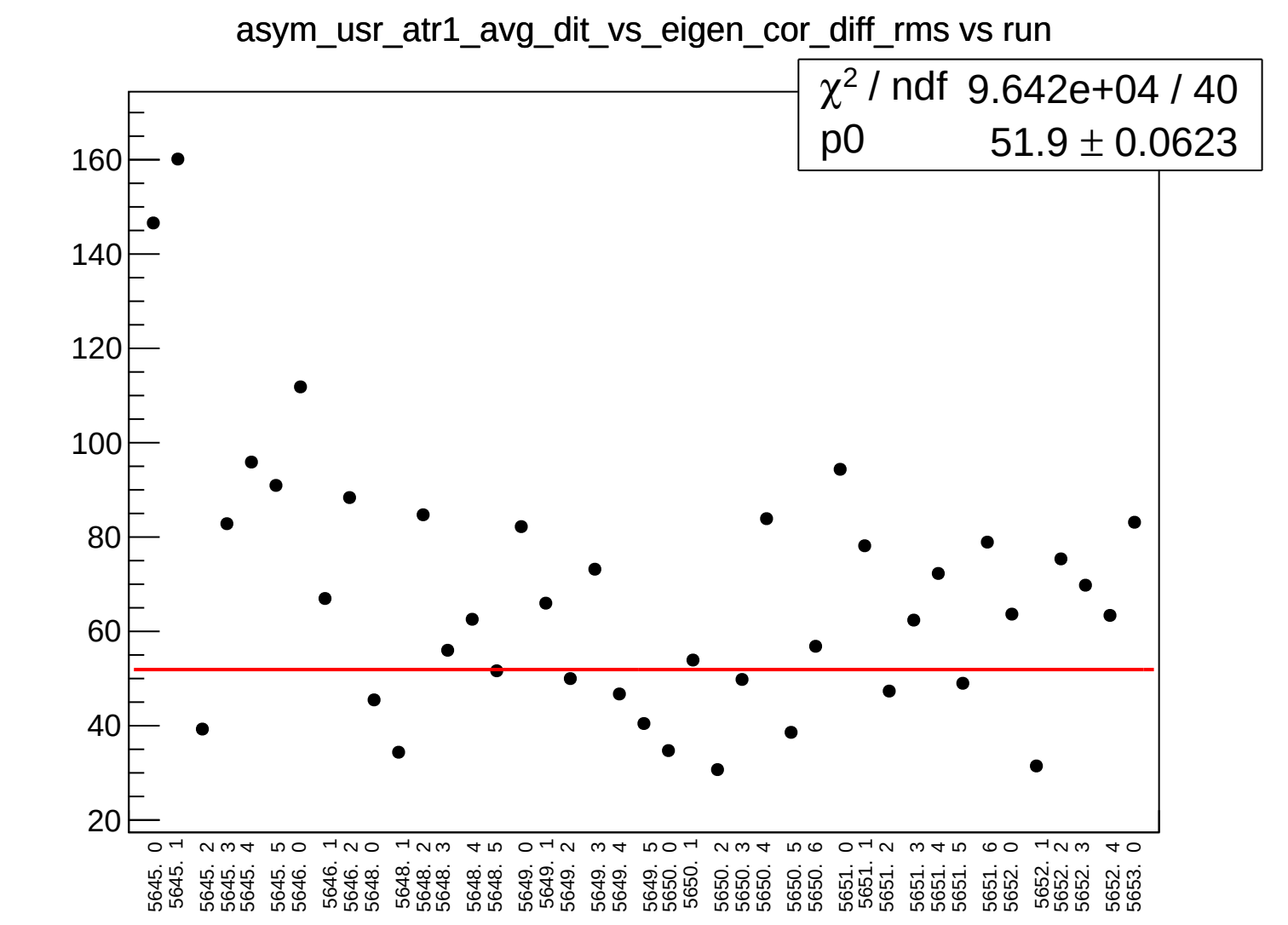

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.84 / 40
p0 −0.06076 ± 0.08811
pull
Entries 41
Mean 115.9
Std Dev 0

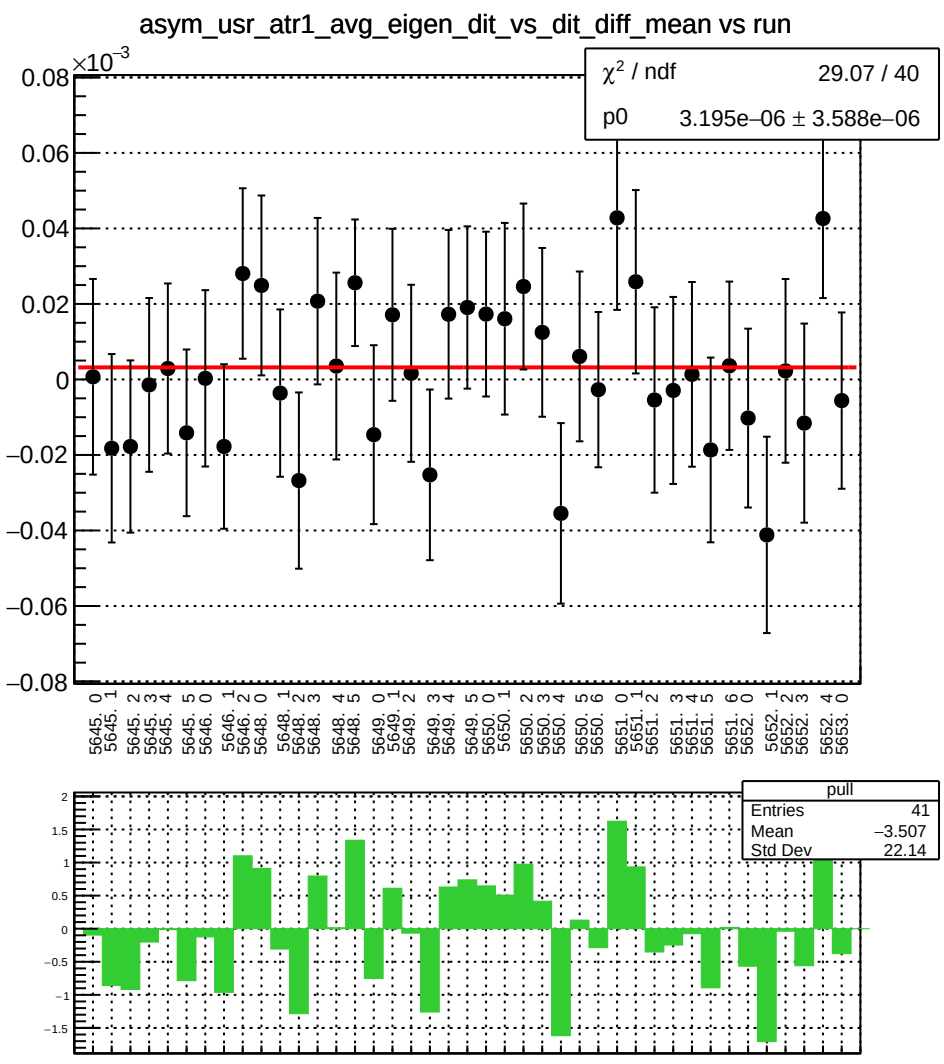

pull1D
Entries 41
Mean −0.0292
Std Dev 0.8235

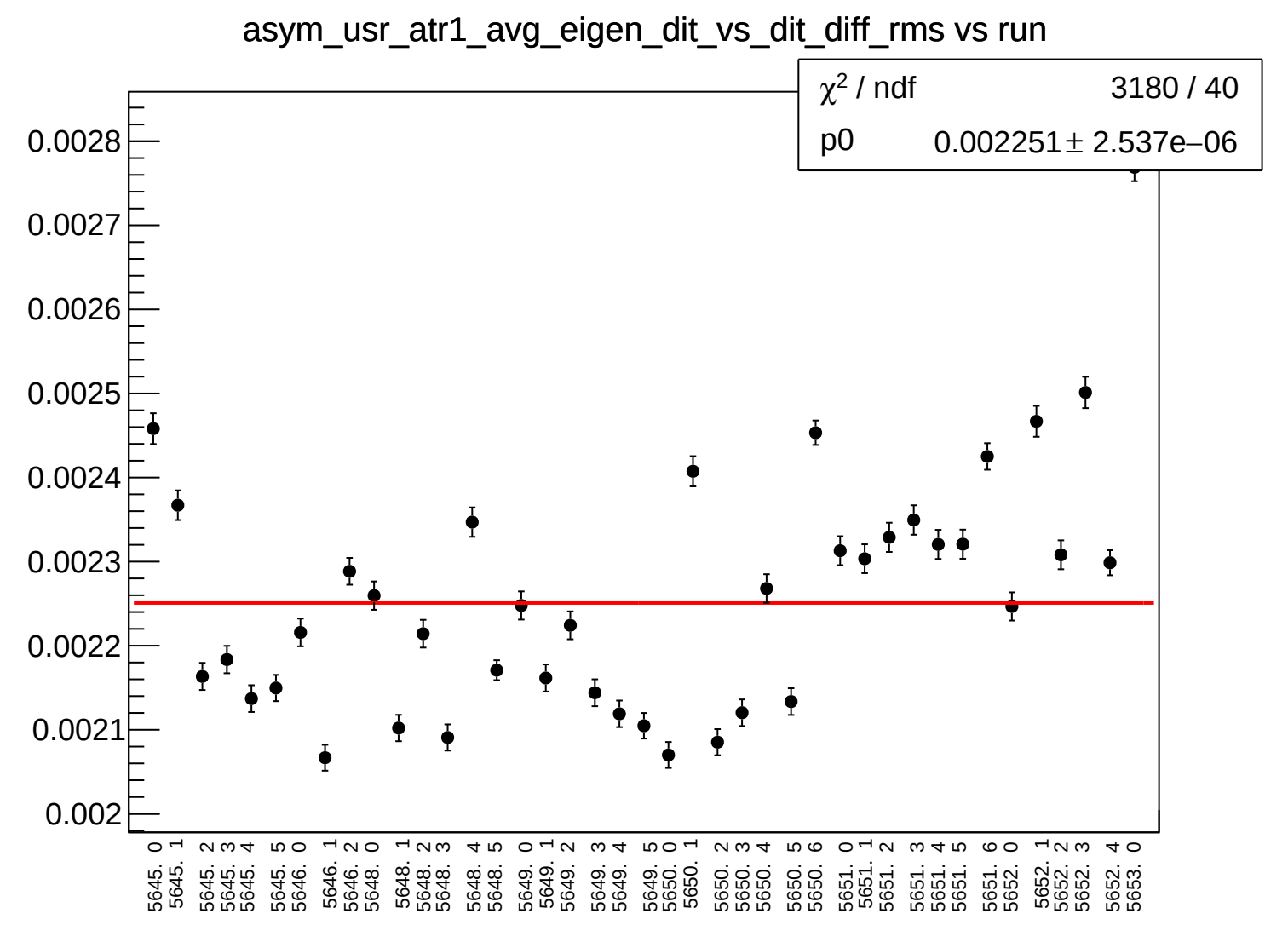

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 40
p0 51.9 ± 0.0623
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

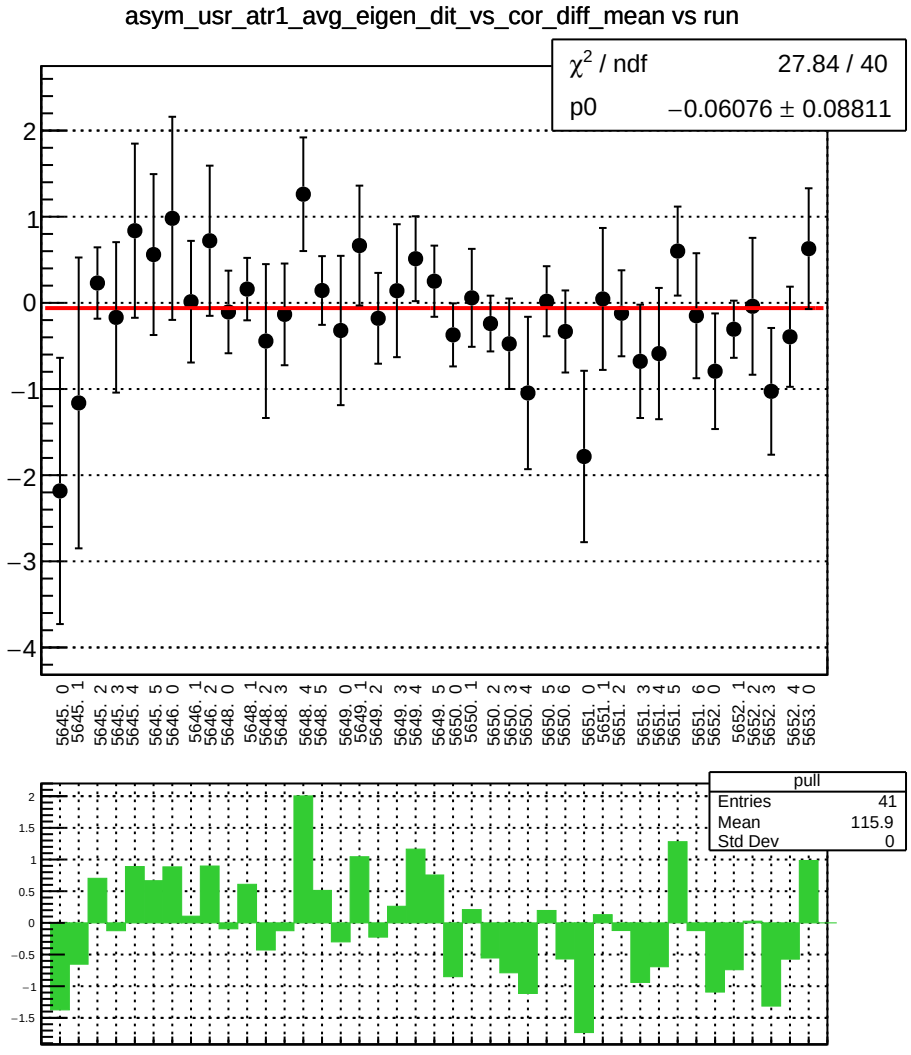

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.84 / 40
p0 −0.06076 ± 0.08811
pull
Entries 41
Mean 115.9
Std Dev 0

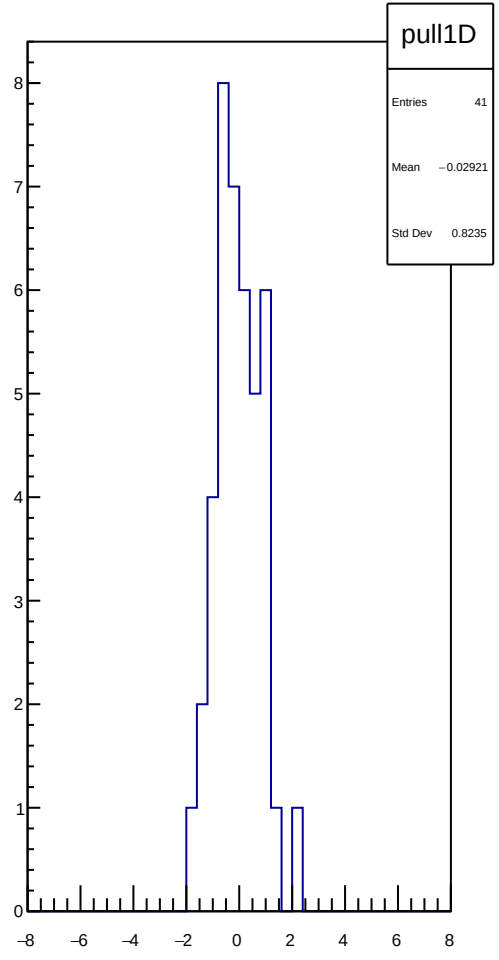

pull1D
Entries 41
Mean −0.0292
Std Dev 0.8235

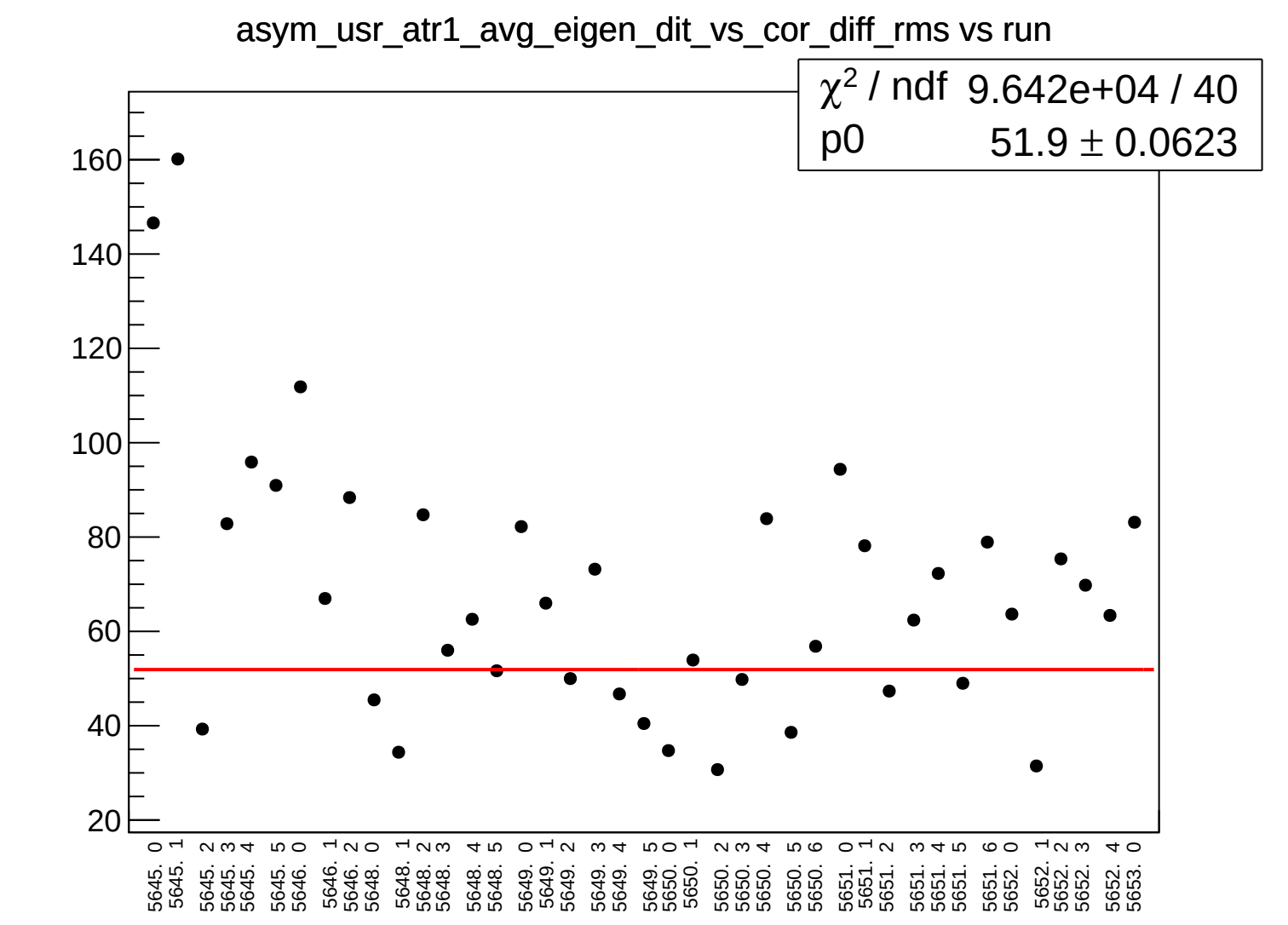

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 40
p0 51.9 ± 0.0623
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

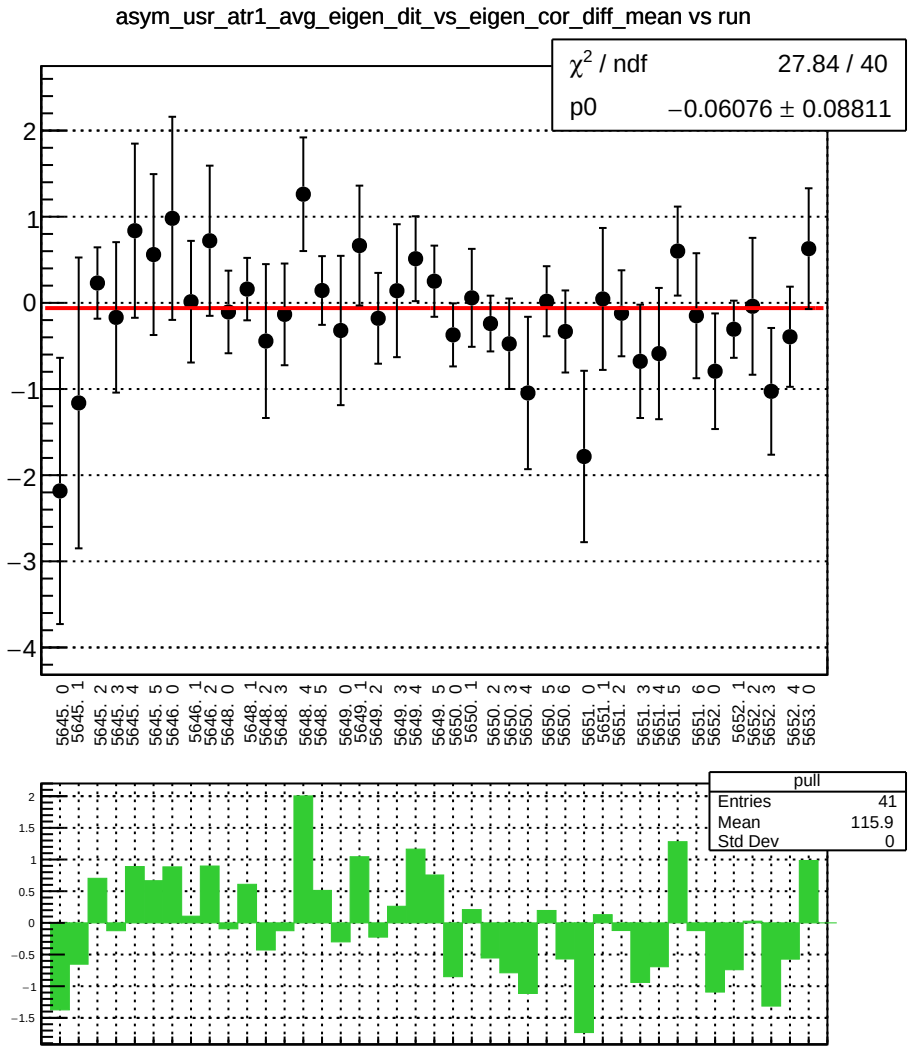

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 29.07 / 40
p0 3.195e−06 ± 3.588e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −3.507
Std Dev 22.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.02649
Std Dev 0.8417
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

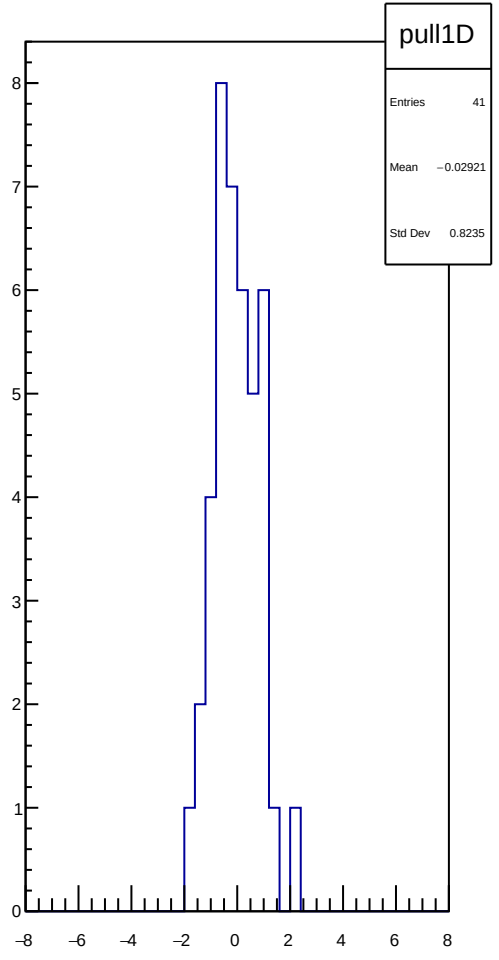

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3180 / 40
p0 0.002251 ± 2.537e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

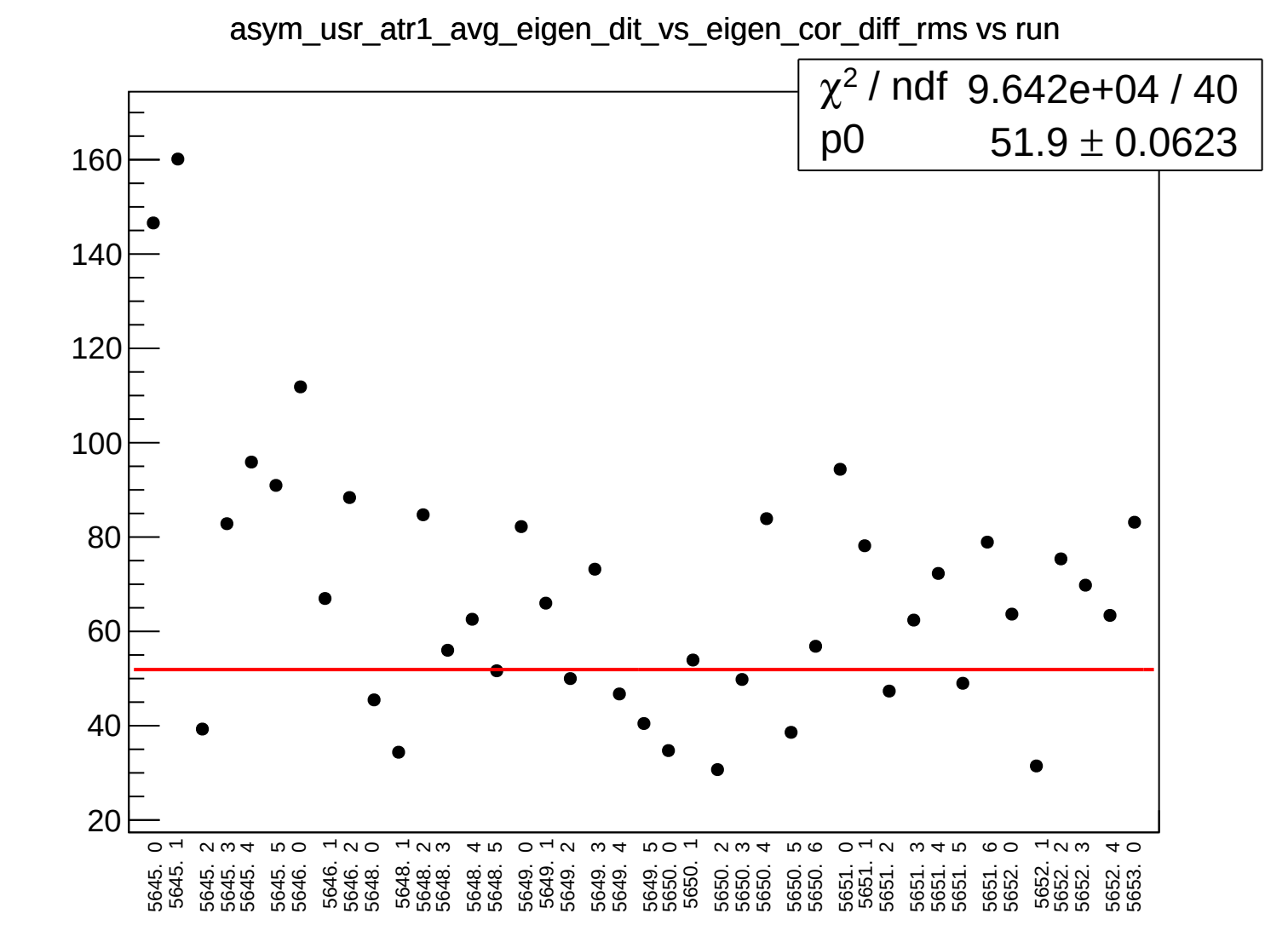

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.84 / 40
p0 −0.06076 ± 0.08811
pull
Entries 41
Mean 115.9
Std Dev 0

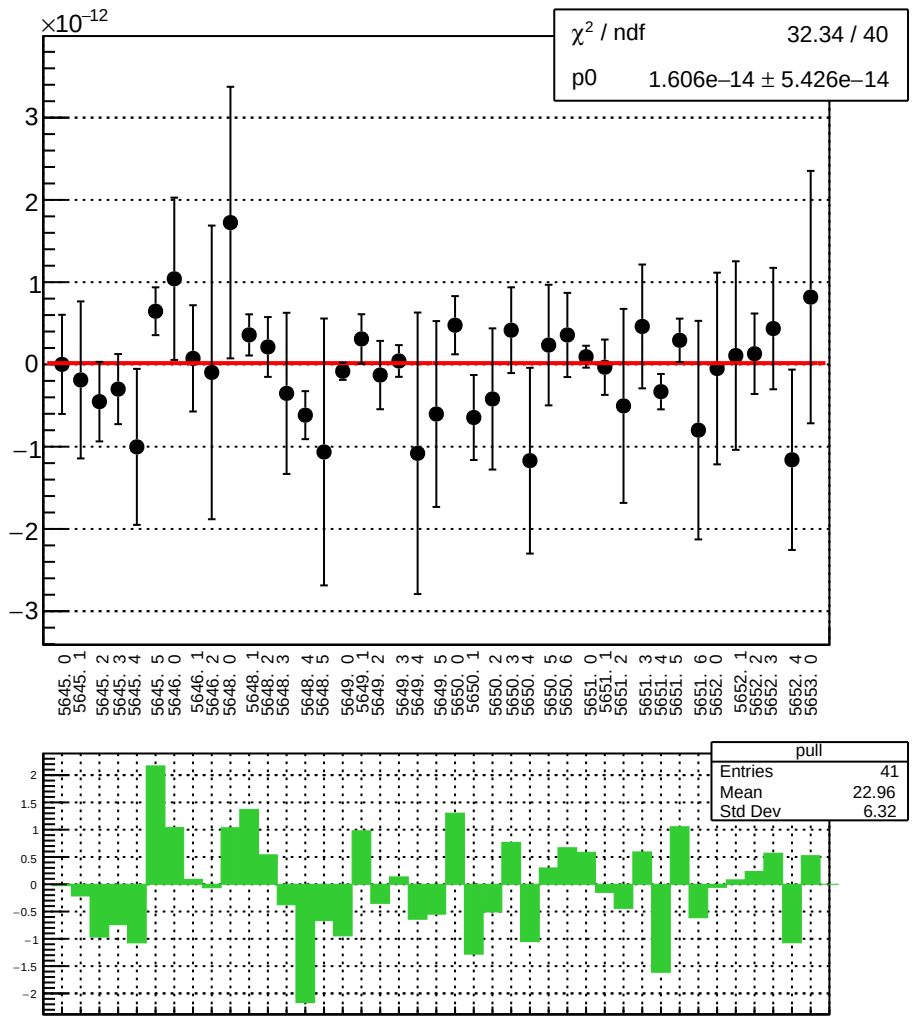

pull1D
Entries 41
Mean −0.02921
Std Dev 0.8235

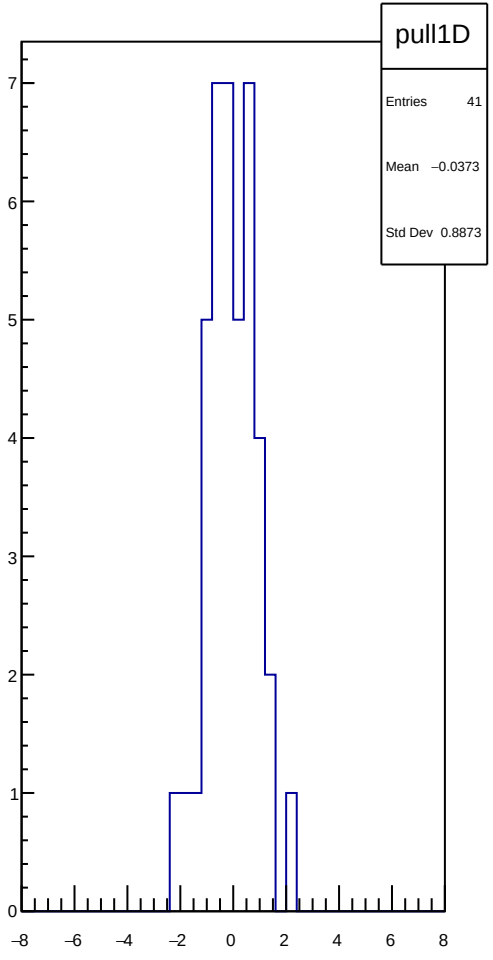

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 40
p0 51.9 ± 0.0623
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

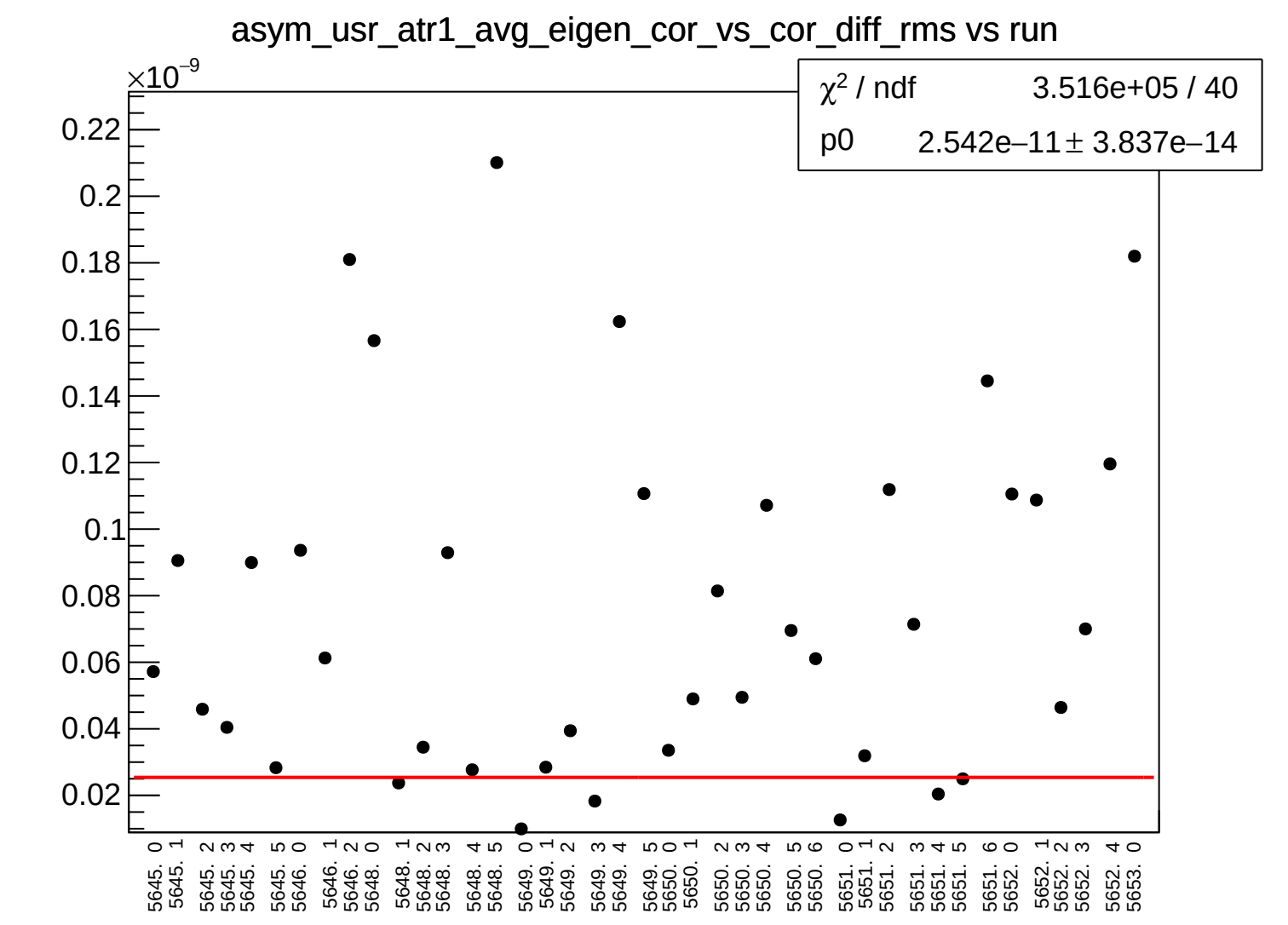

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.84 / 40
p0 −0.06076 ± 0.08811
pull
Entries 41
Mean 115.9
Std Dev 0

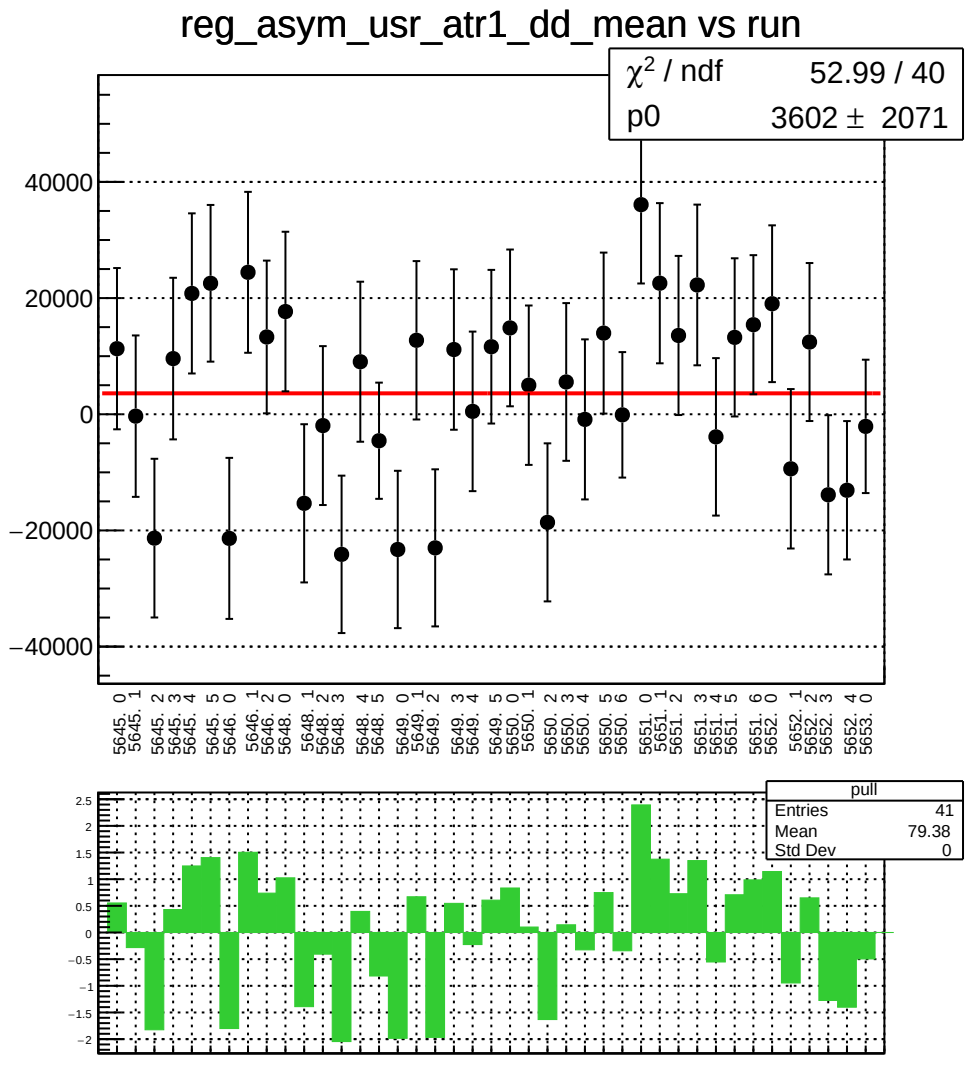

pull1D
Entries 41
Mean −0.02921
Std Dev 0.8235

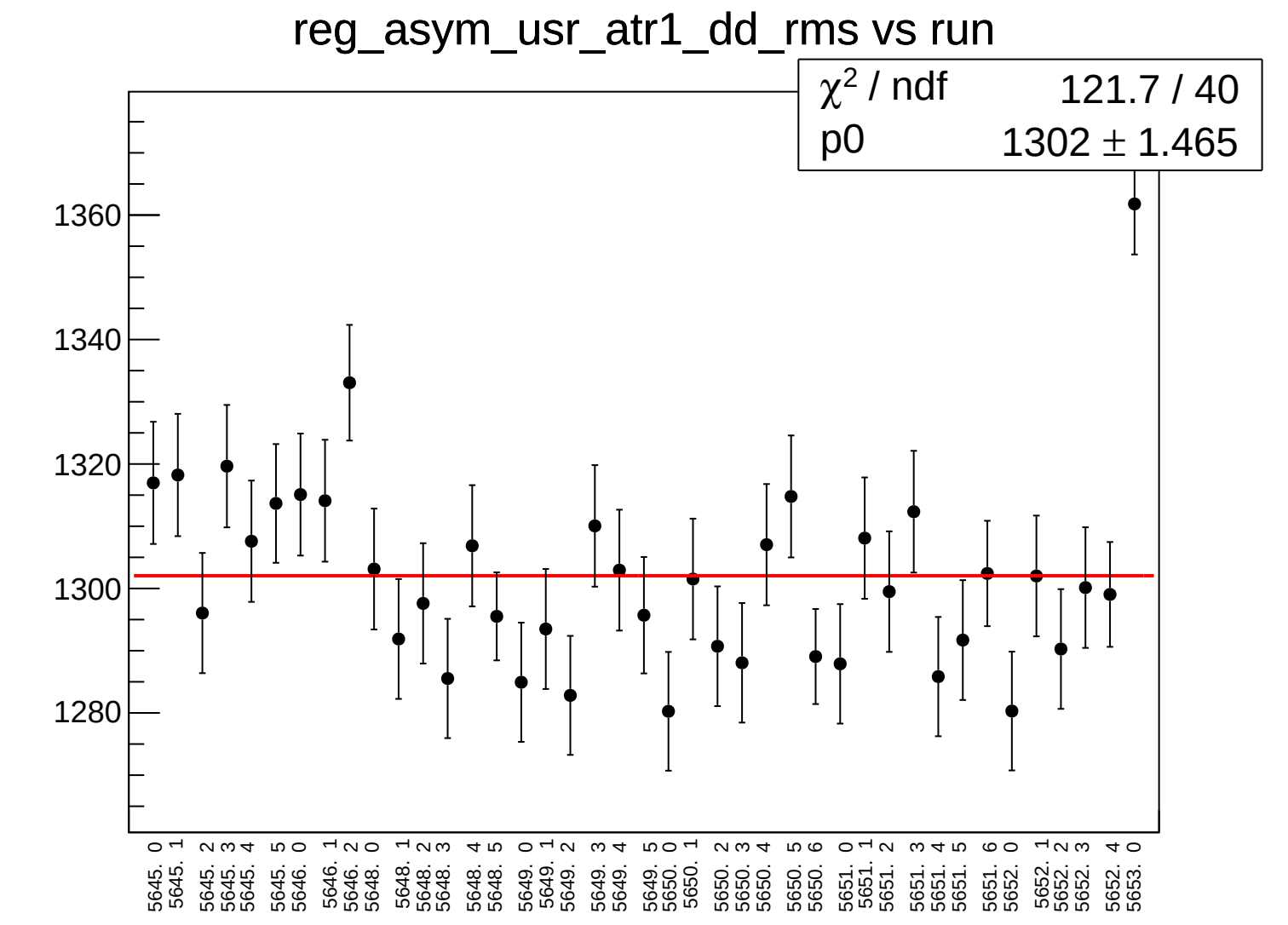

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.642e+04 / 40
p0 51.9 ± 0.0623
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

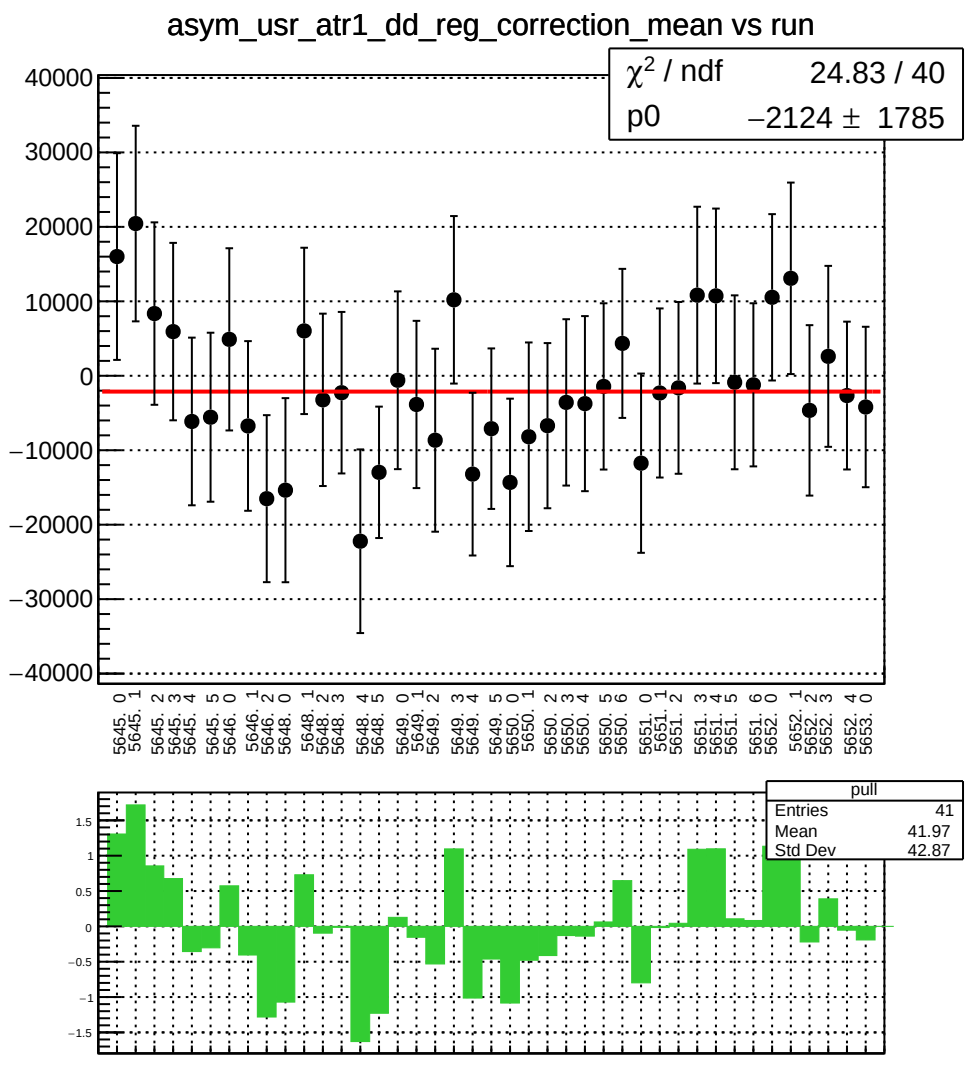

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.34 / 40
p0 1.606e−14 ± 5.426e−14
pull
Entries 41
Mean 22.96
Std Dev 6.32

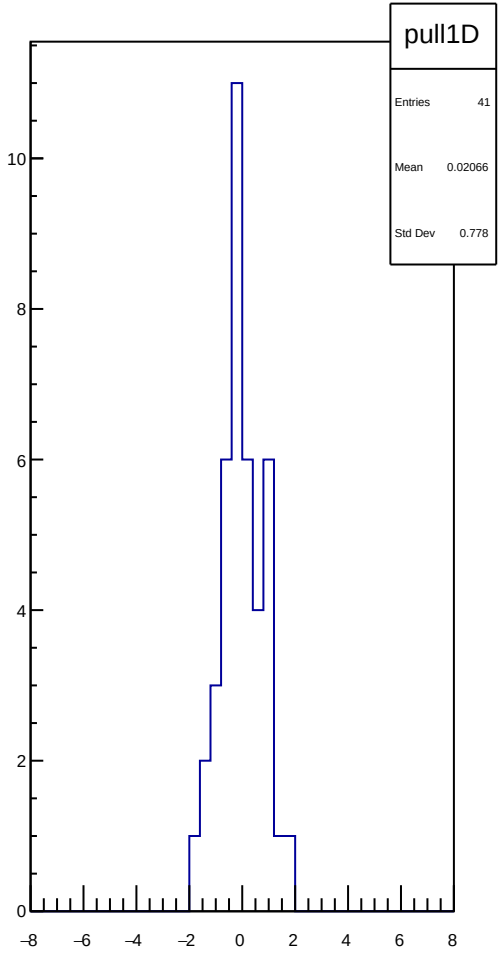

pull1D
Entries 41
Mean −0.0373
Std Dev 0.8873

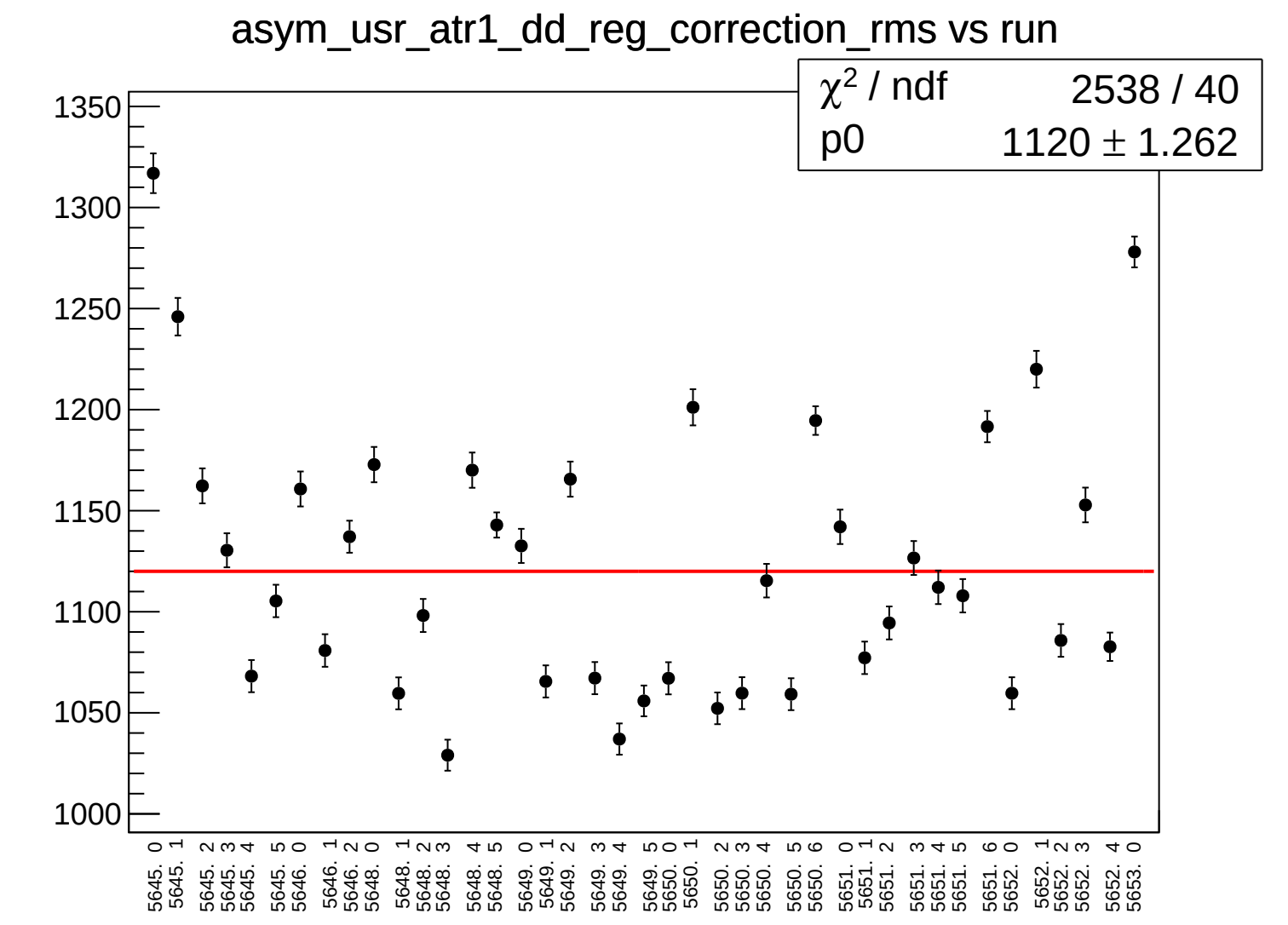

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.516e+05 / 40
p0 2.542e−11 ± 3.837e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

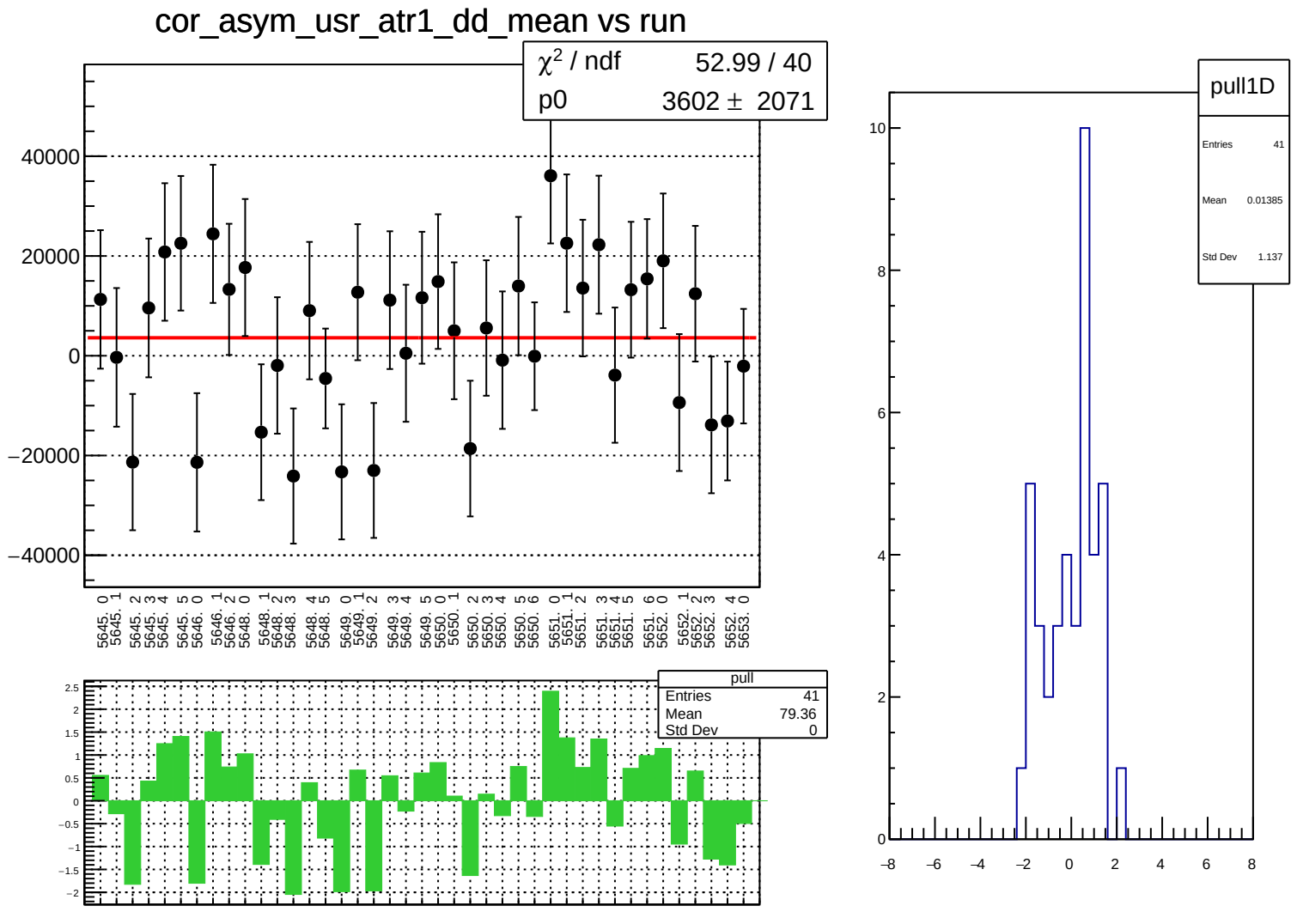

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 52.99 / 40
p0 3602 ± 2071
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 79.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01385
Std Dev 1.137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

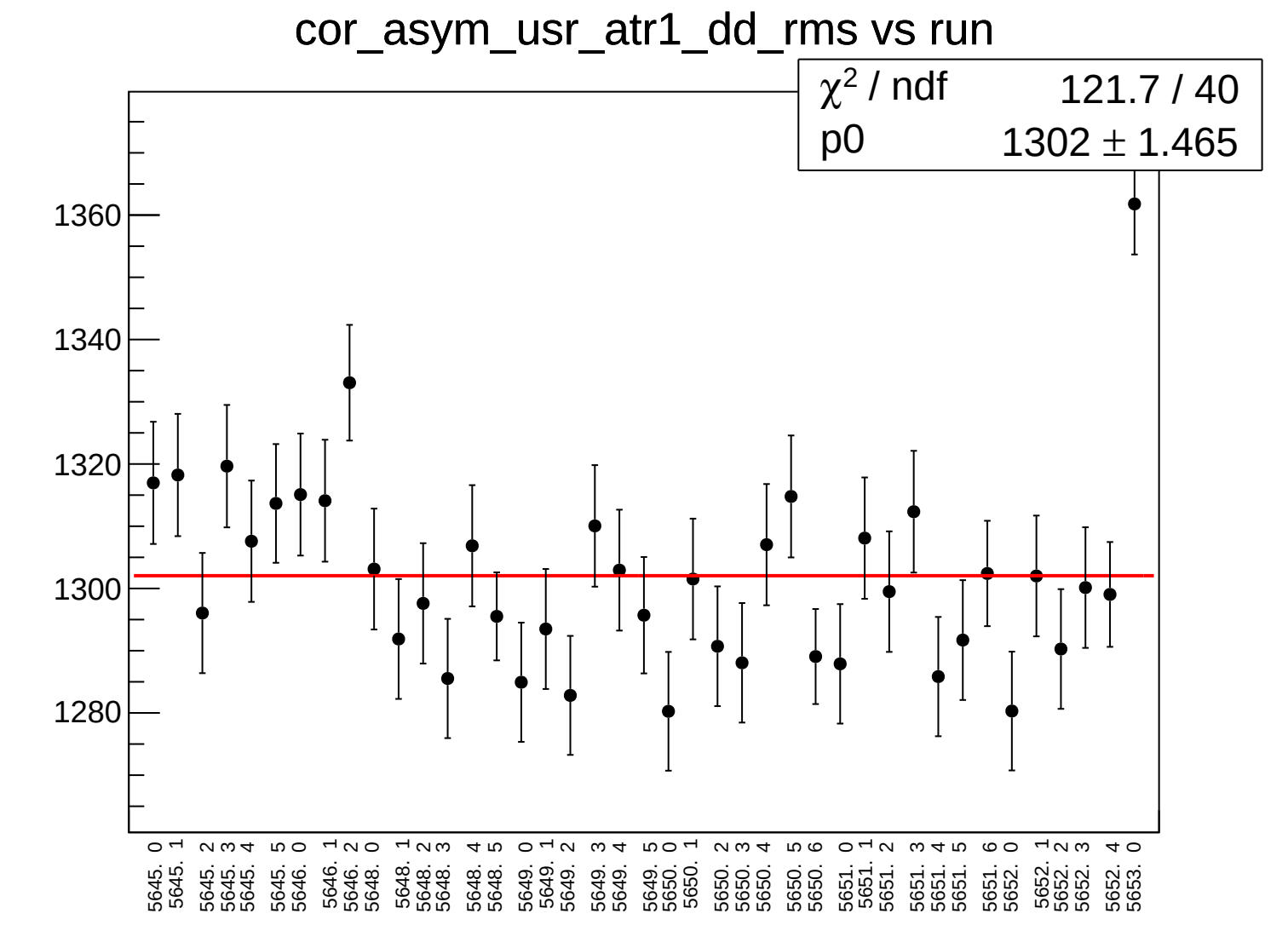

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 121.7 / 40
p0 1302 ± 1.465
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

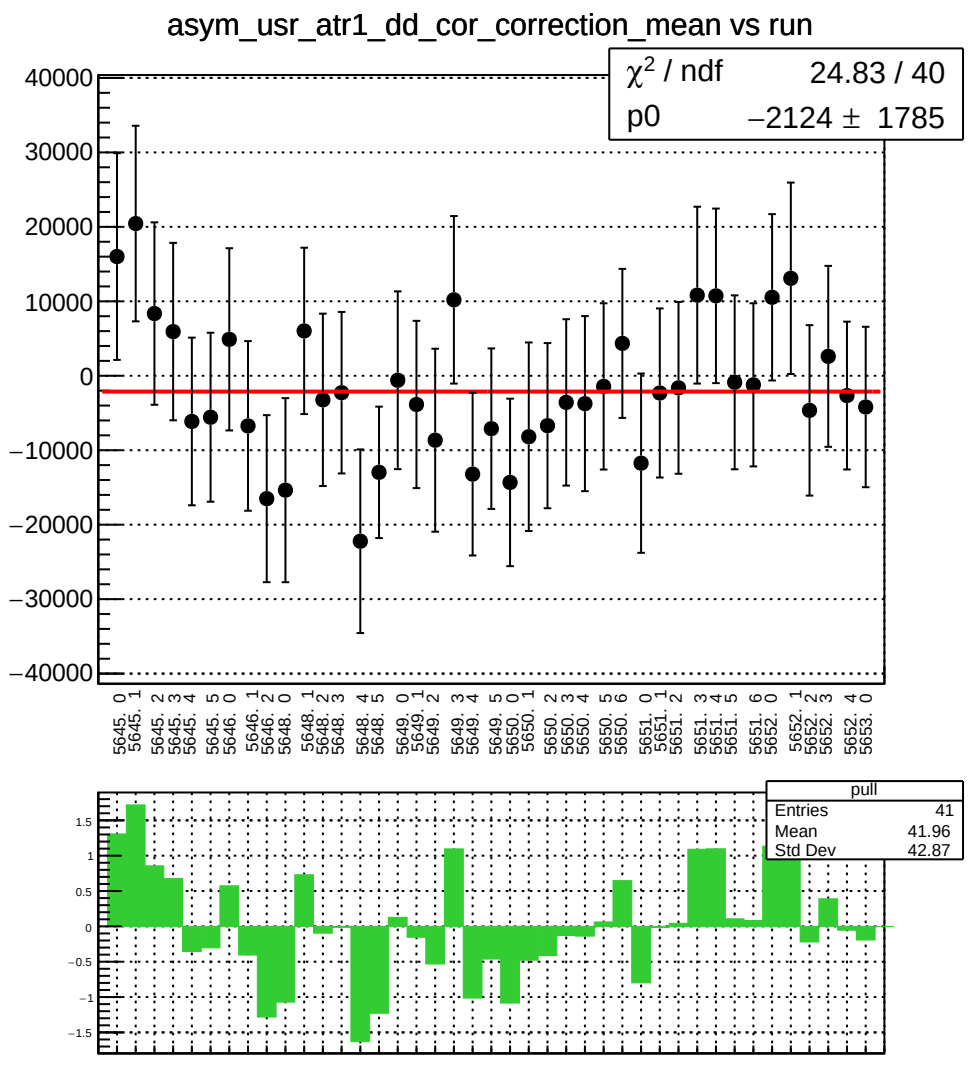

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 24.83 / 40
p0 −2124 ± 1785
pull
Entries 41
Mean 41.97
Std Dev 42.87

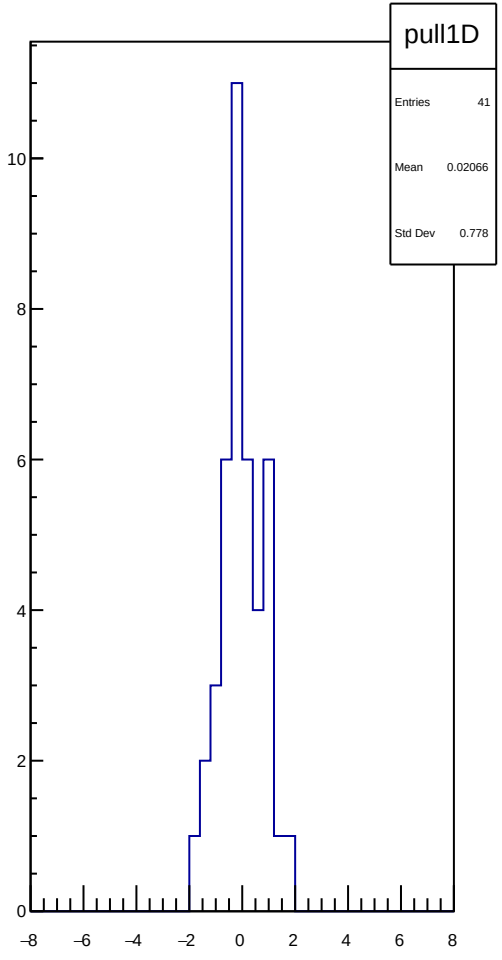

pull1D
Entries 41
Mean 0.02066
Std Dev 0.778

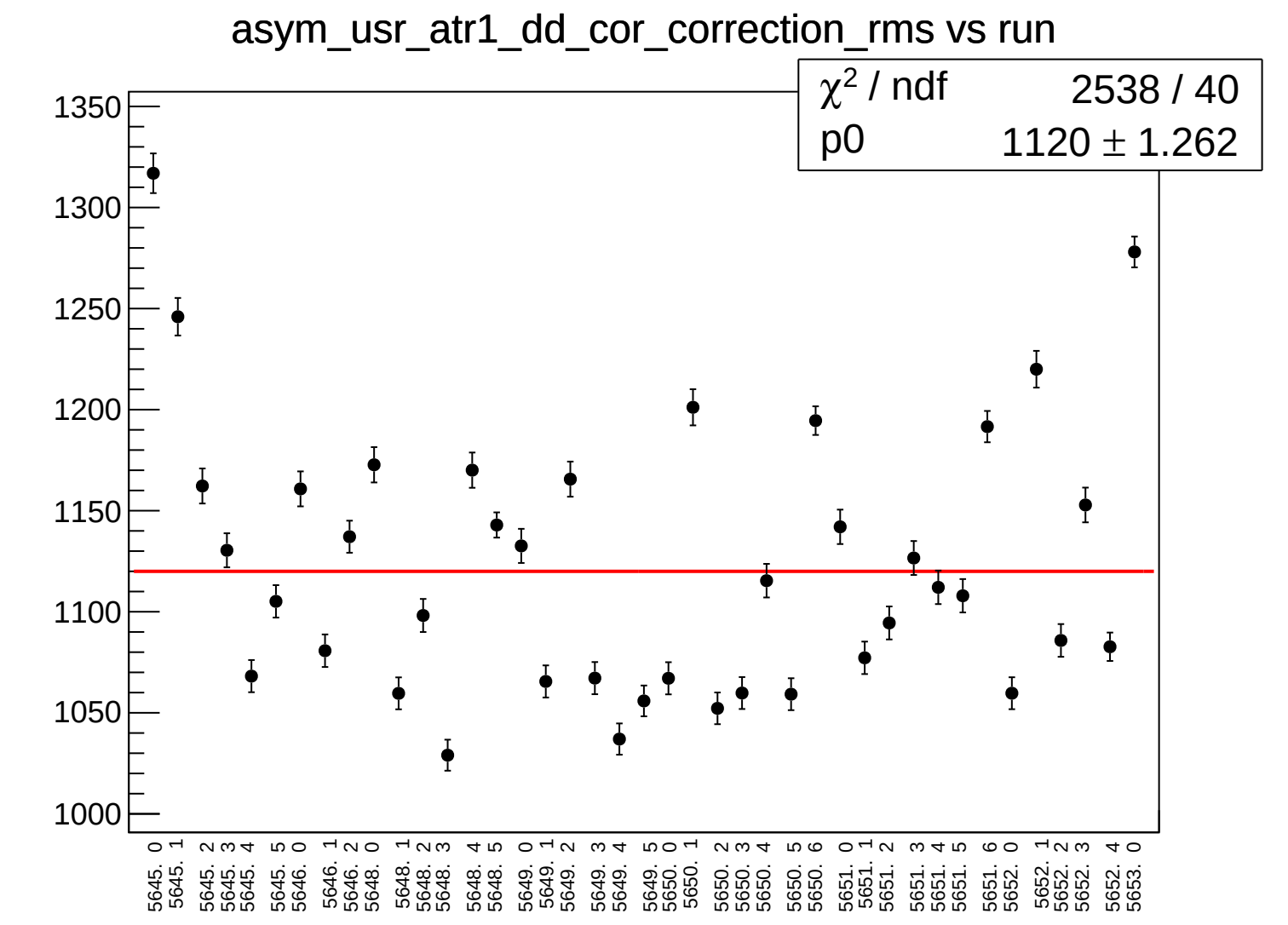

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2538 / 40
p0 1120 ± 1.262
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

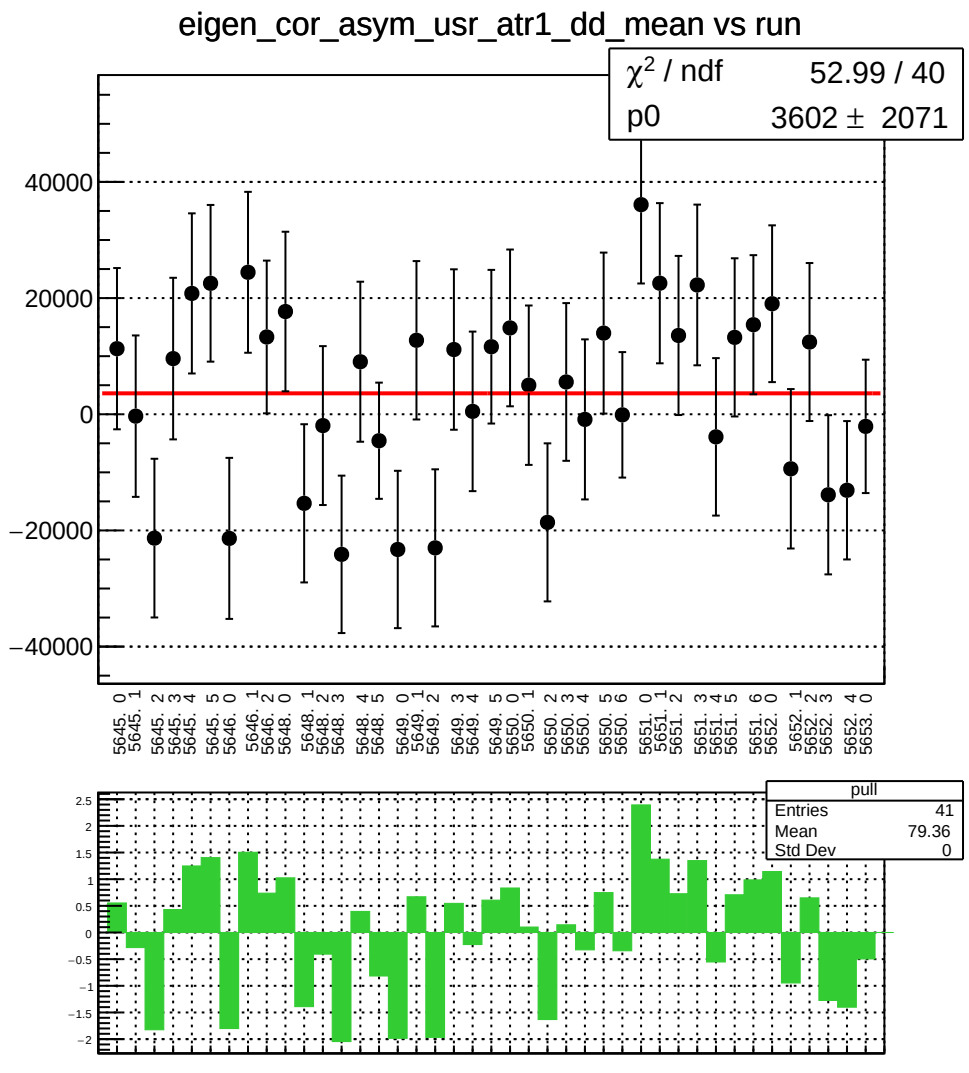

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 52.99 / 40
p0 3602 ± 2071
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 79.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01385
Std Dev 1.137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

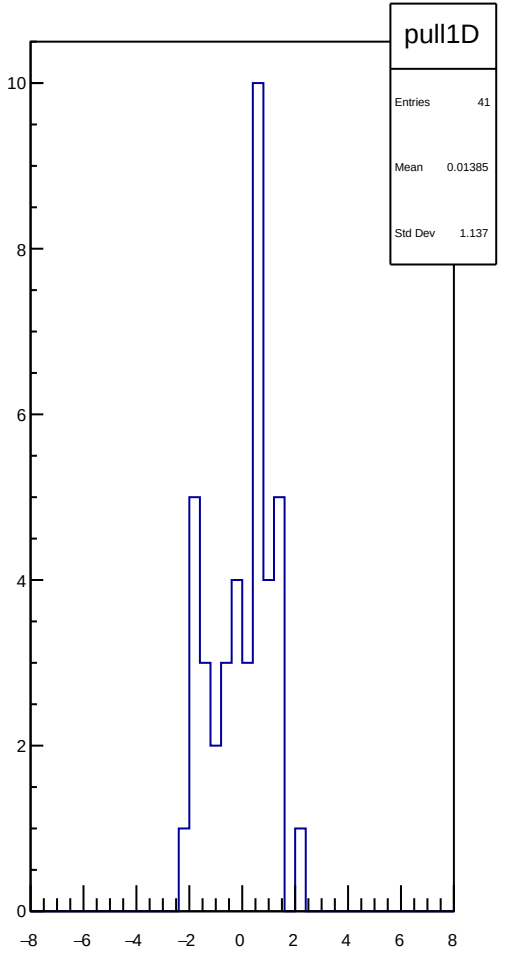

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 121.7 / 40
p0 1302 ± 1.465
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

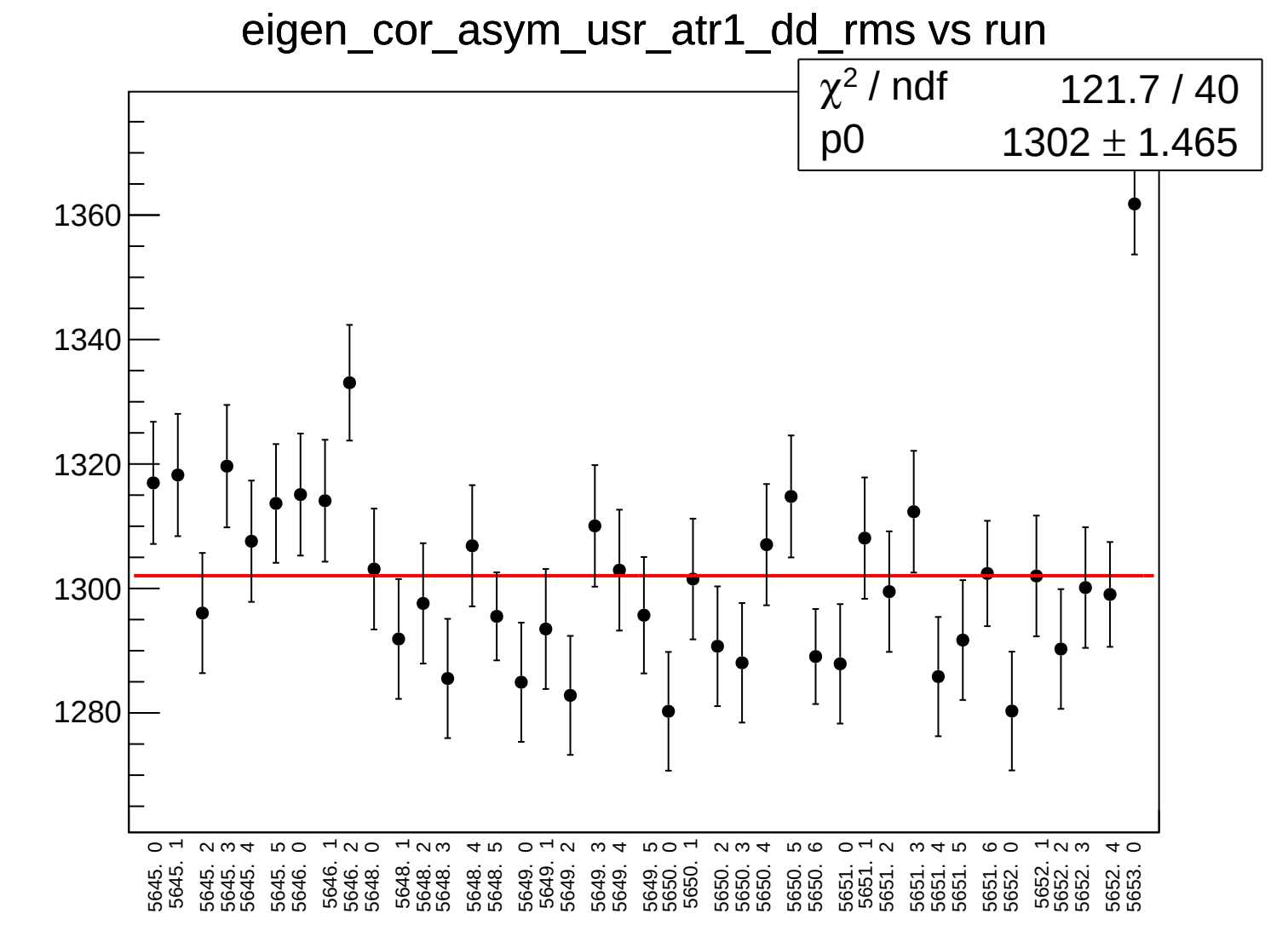

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 24.83 / 40
p0 −2124 ± 1785
pull
Entries 41
Mean 41.96
Std Dev 42.87

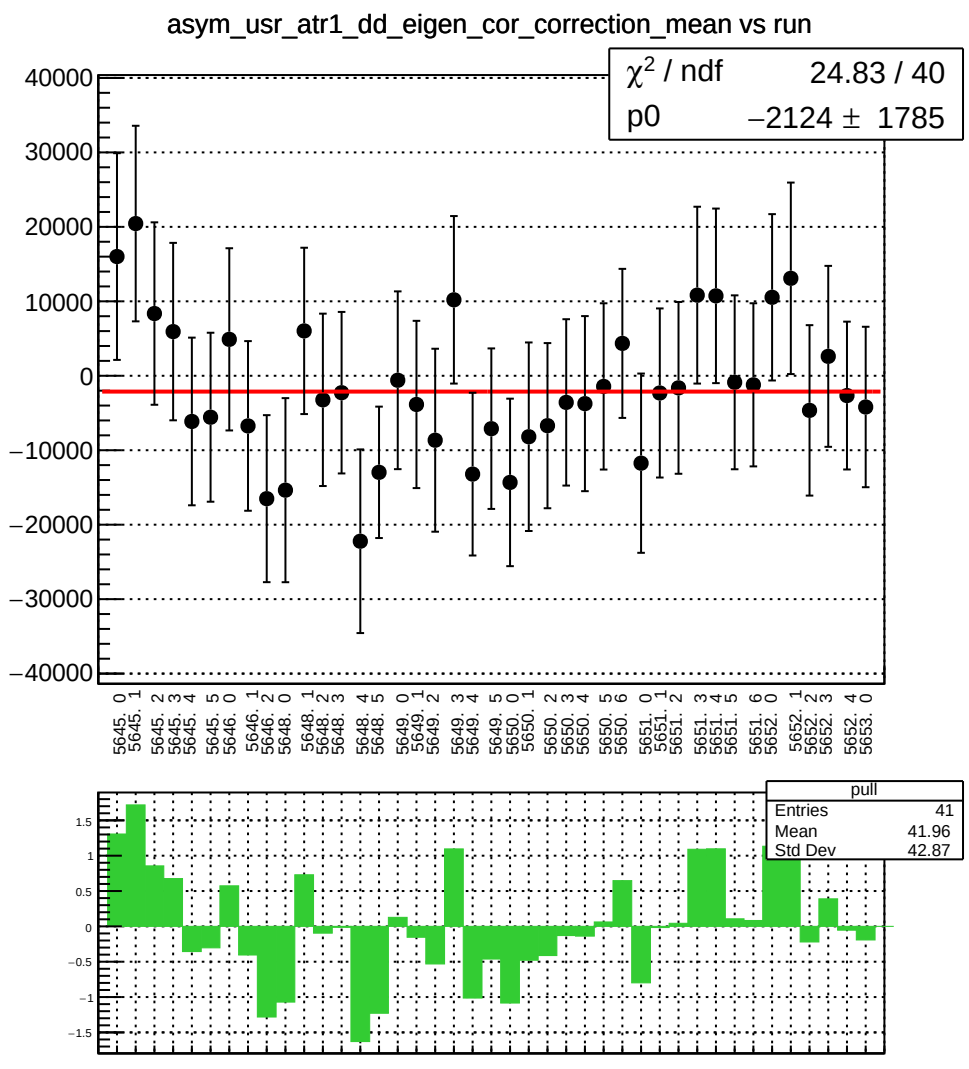

pull1D
Entries 41
Mean 0.02066
Std Dev 0.778

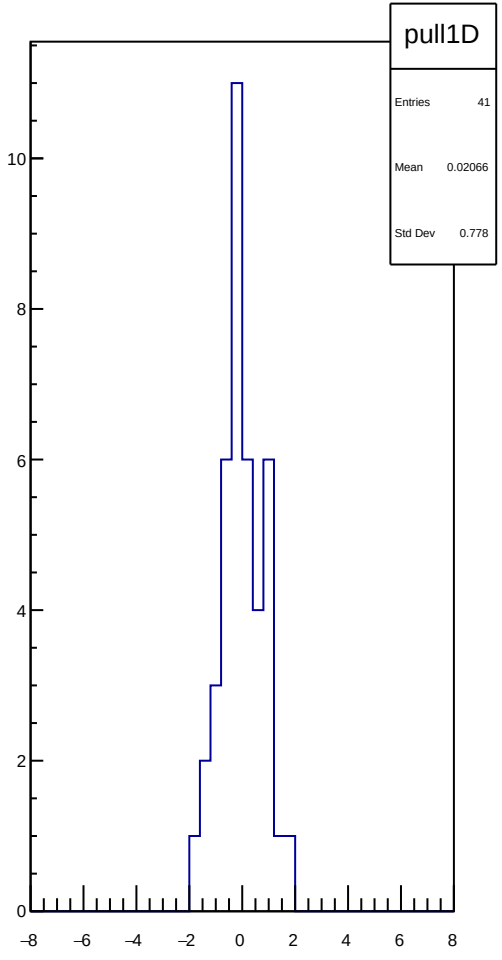

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2538 / 40
p0 1120 ± 1.262
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

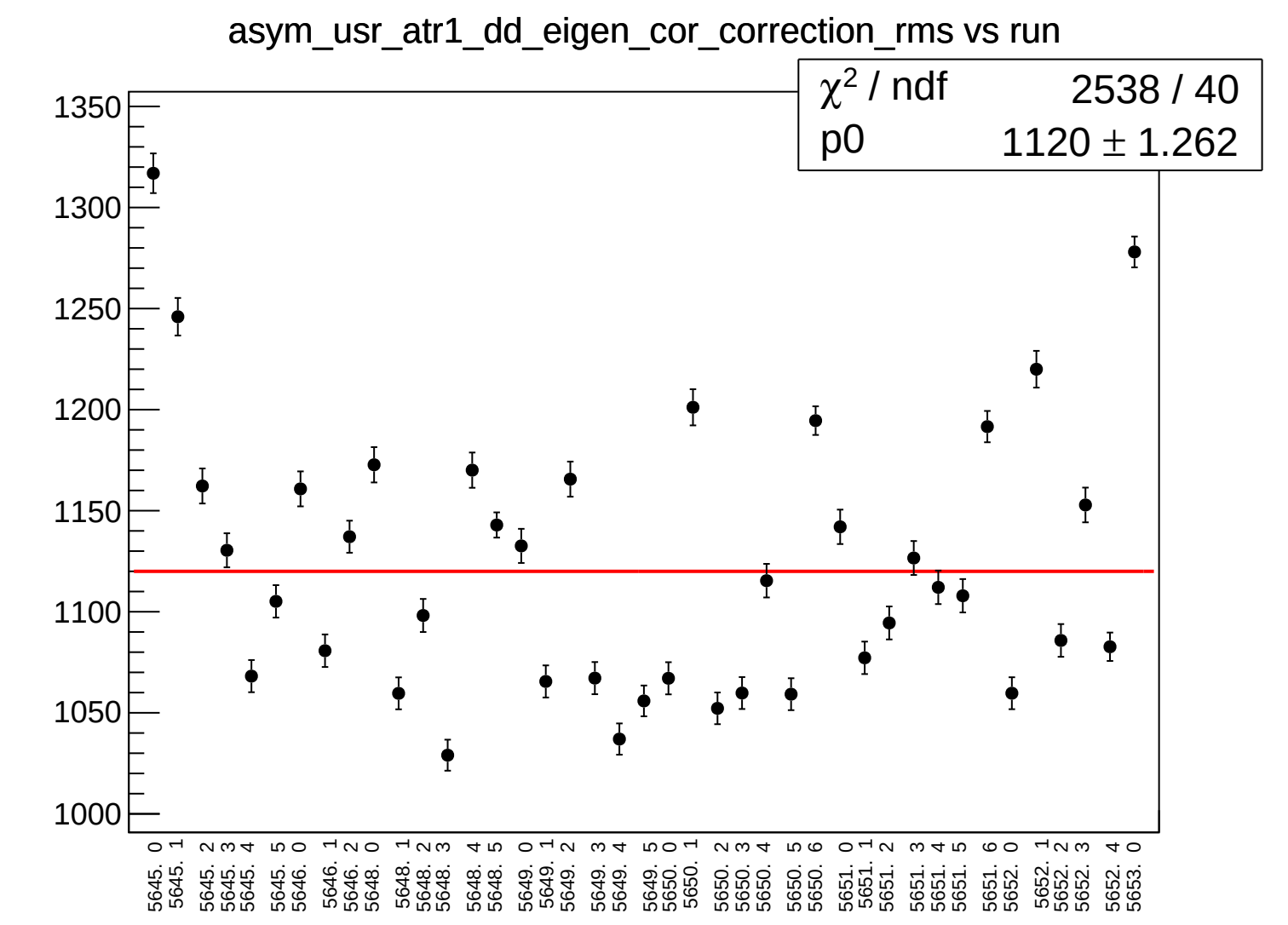

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 52.99 / 40
p0 3602 ± 2071
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 79.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

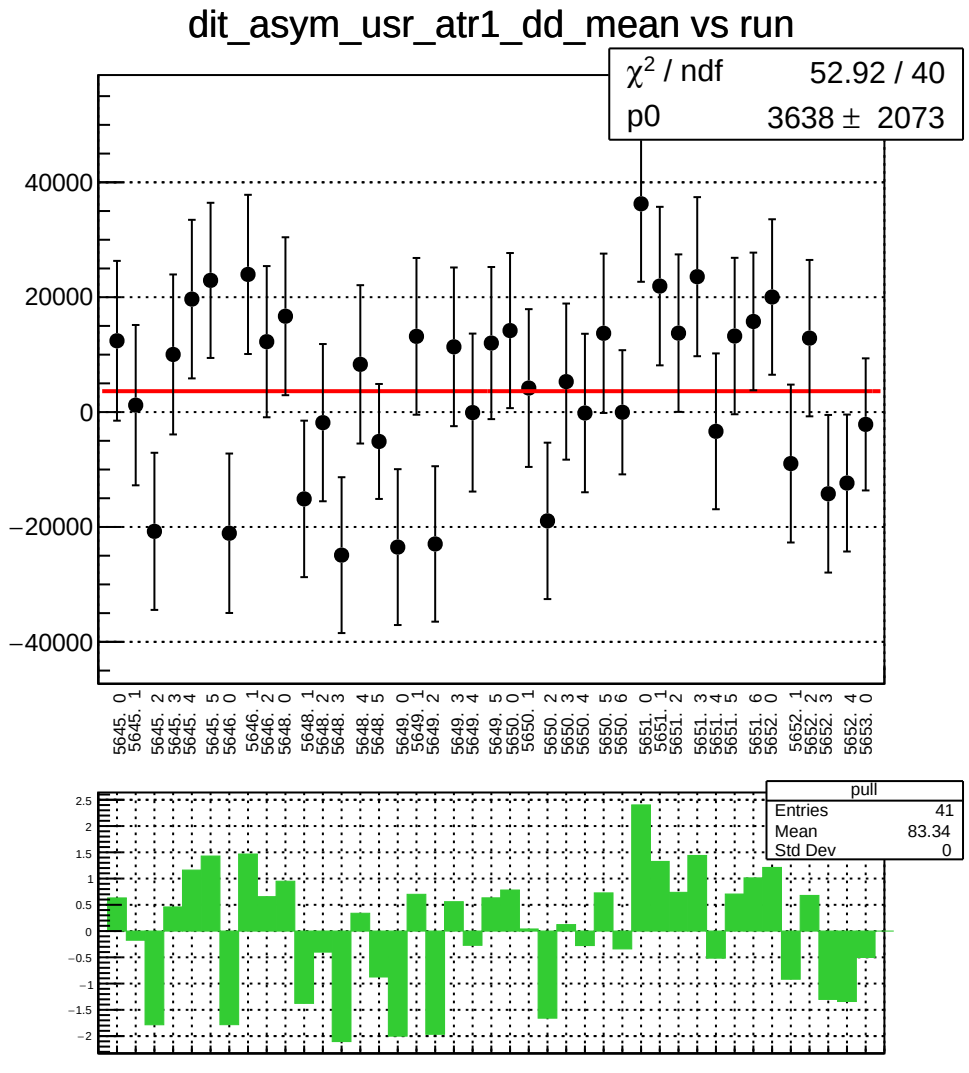

pull1D
Entries 41
Mean 0.01385
Std Dev 1.137
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

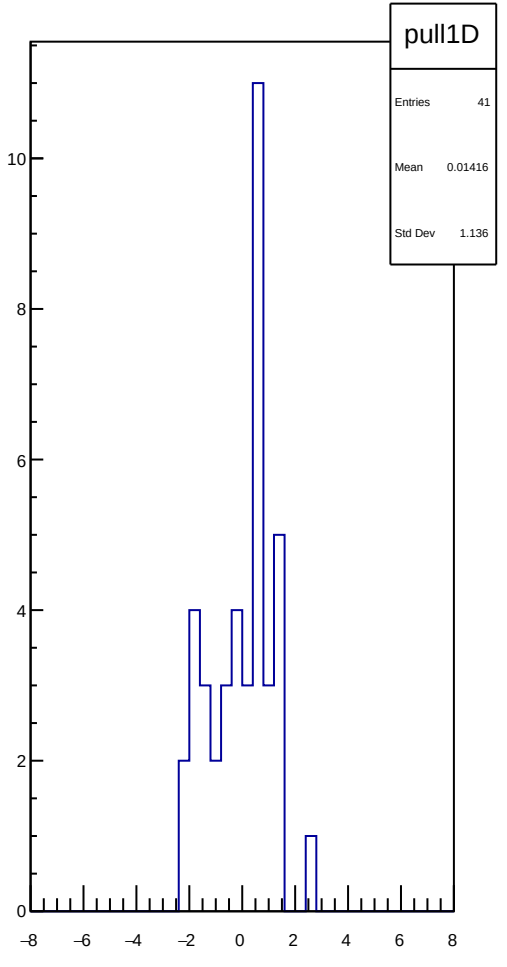

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 121.7 / 40
p0 1302 ± 1.465
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

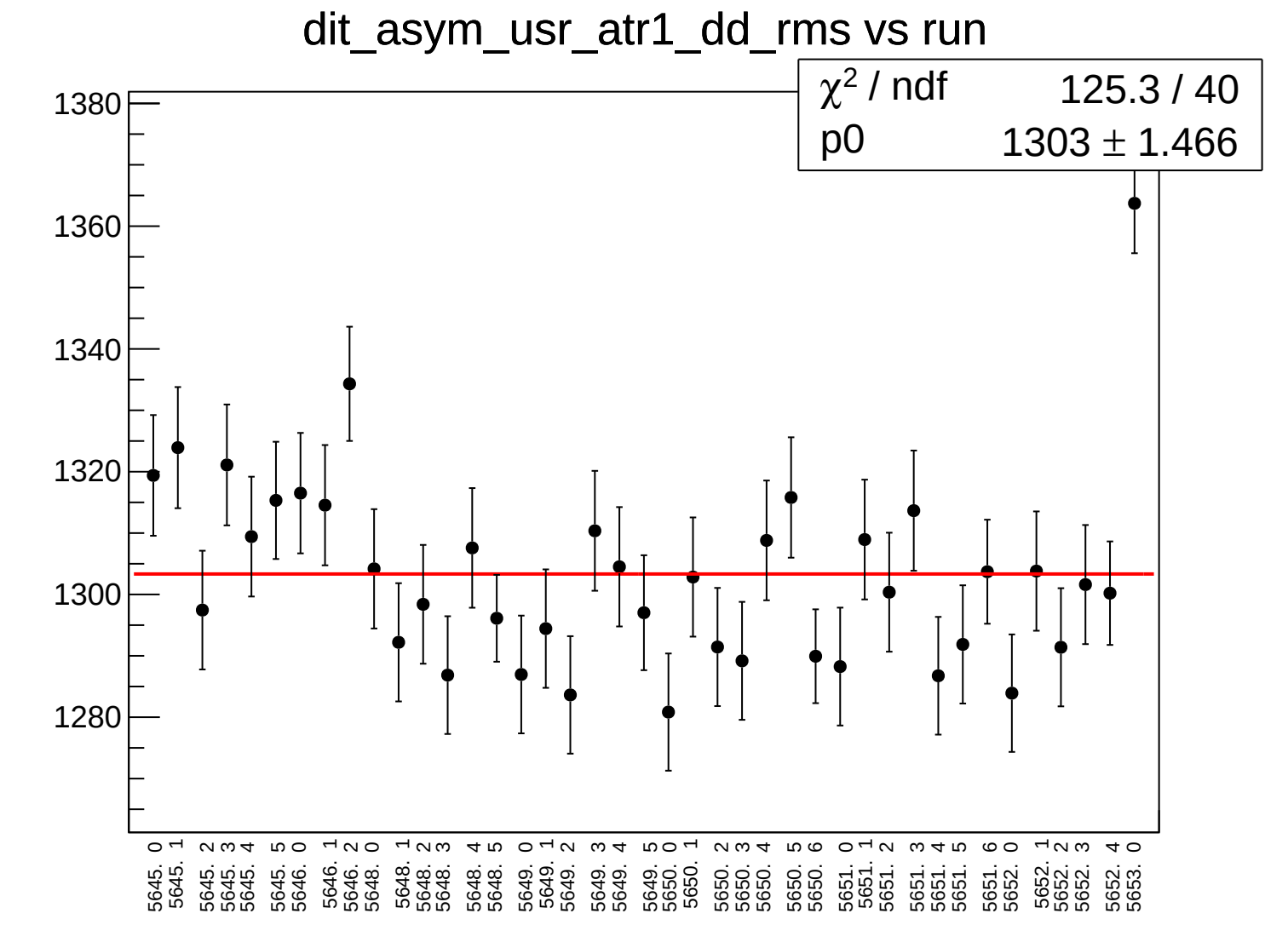

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 24.83 / 40
p0 −2124 ± 1785
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 41.96
Std Dev 42.87
1.5
1
0.5
0
−0.5
−1
−1.5

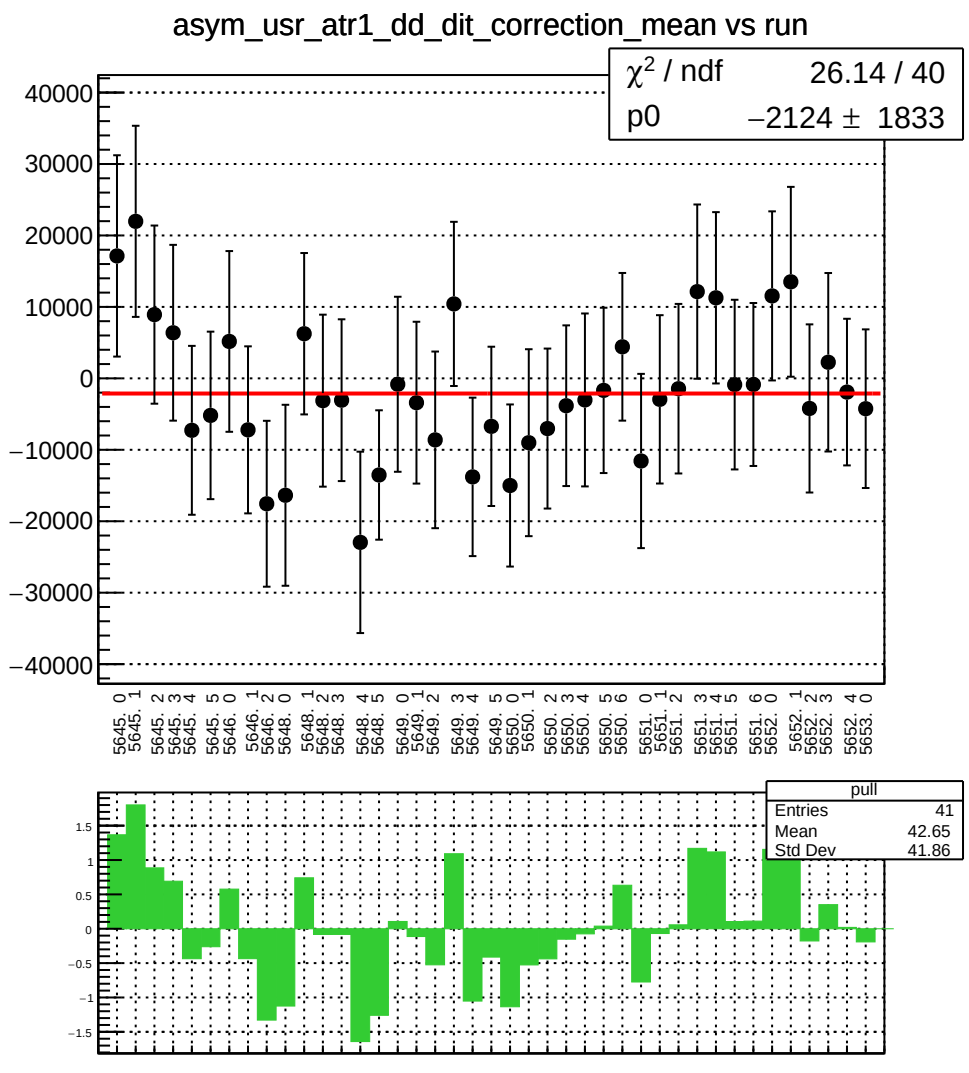

pull1D
Entries 41
Mean 0.02066
Std Dev 0.778
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

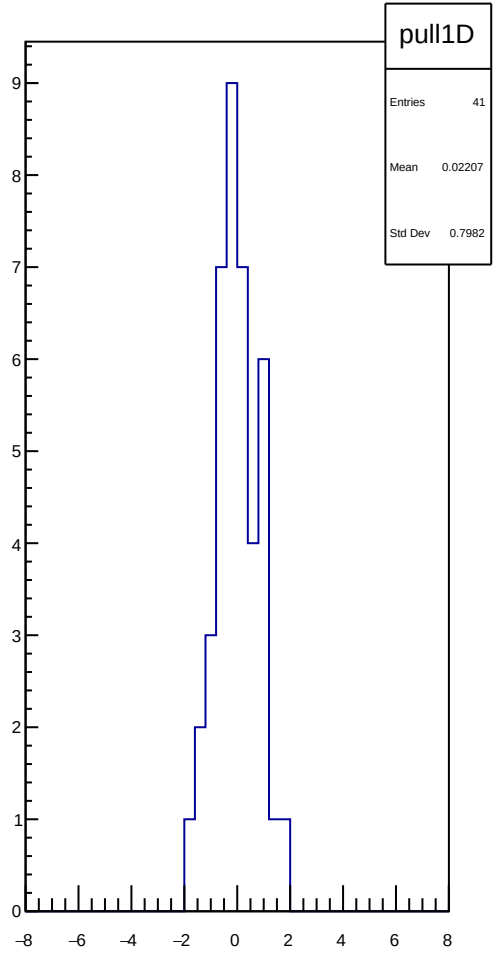

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2538 / 40
p0 1120 ± 1.262
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

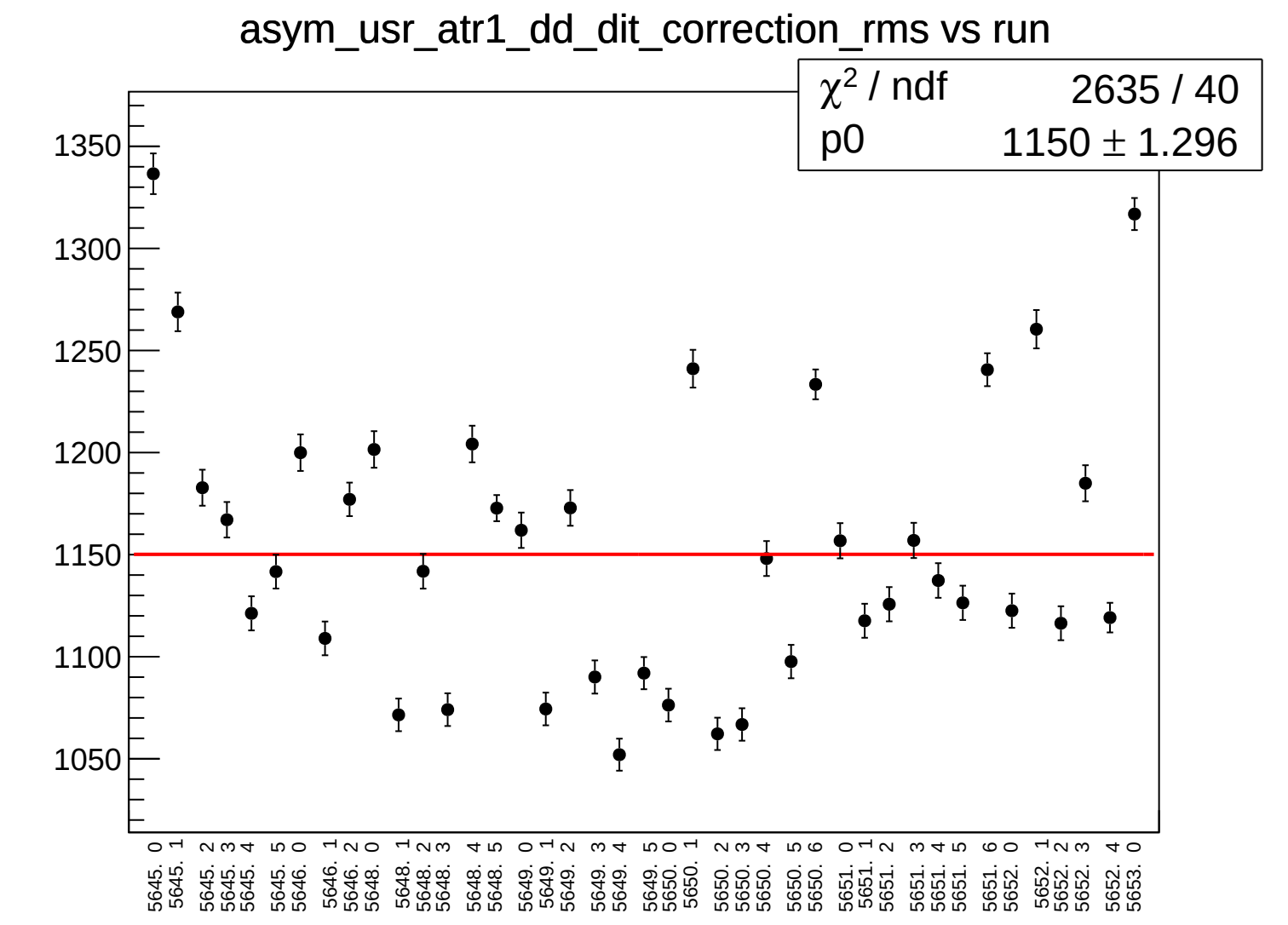

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 52.92 / 40
p0 3638 ± 2073
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 83.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

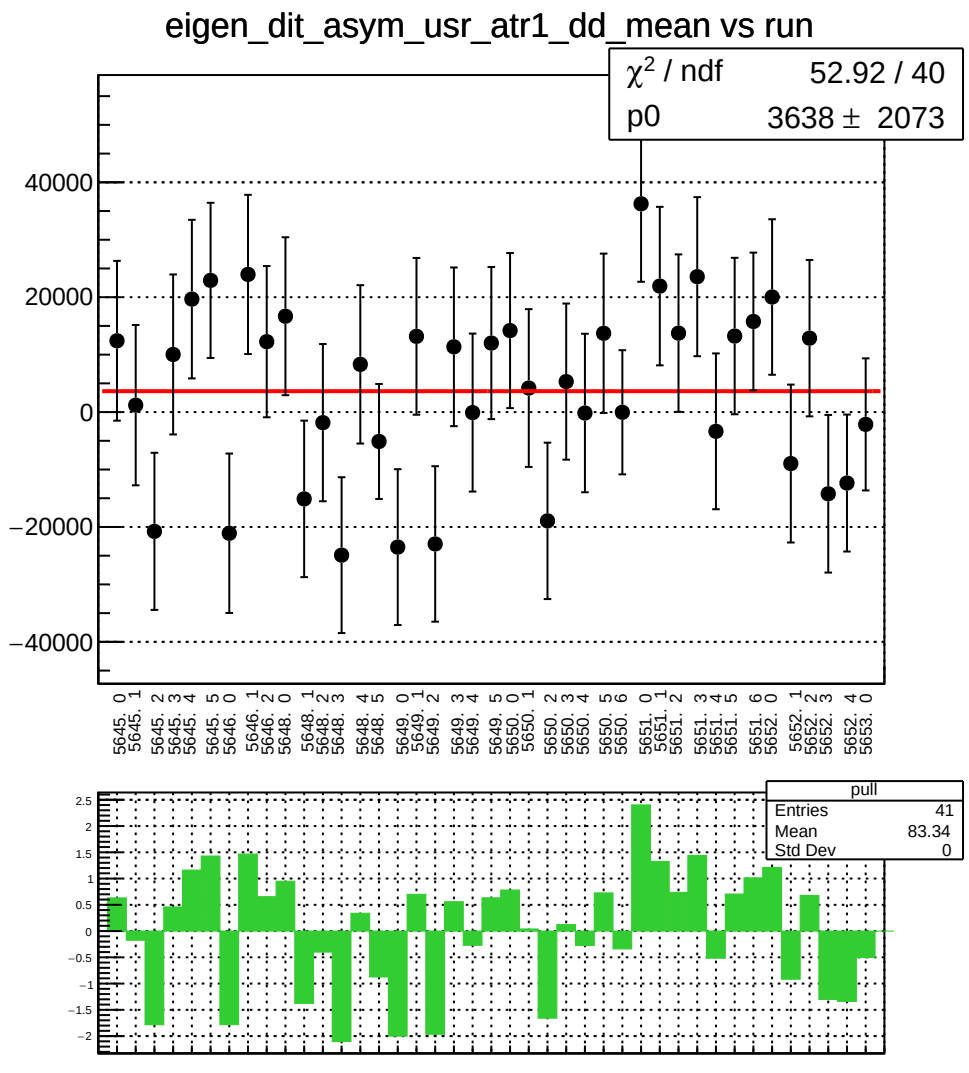

pull1D
Entries 41
Mean 0.01416
Std Dev 1.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

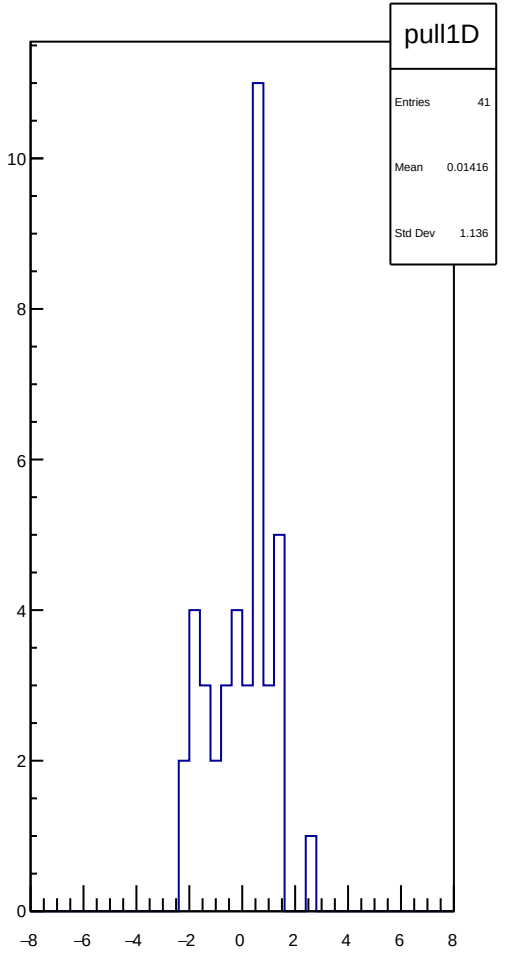

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 125.3 / 40
p0 1303 ± 1.466
1380
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

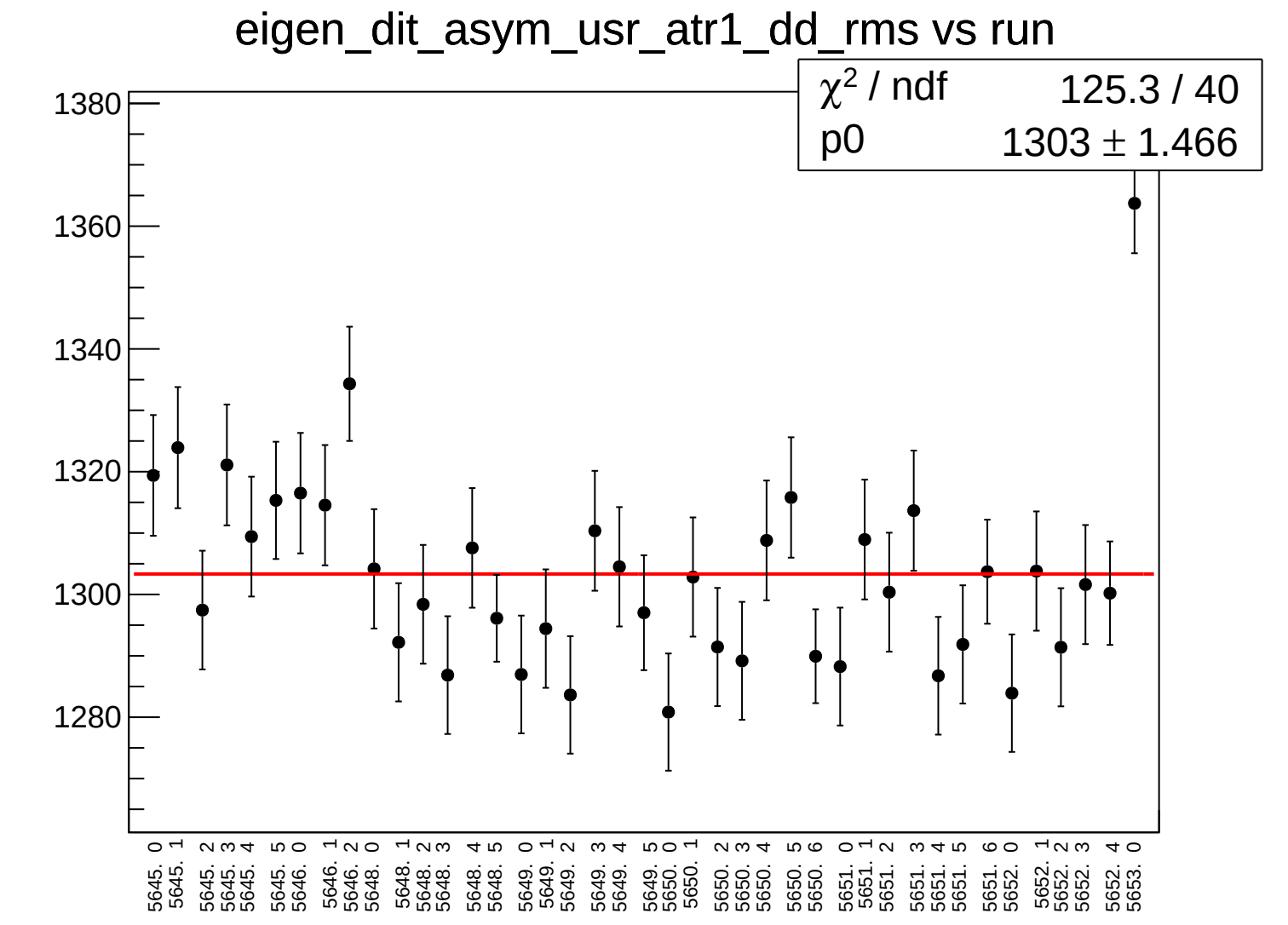

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 26.14 / 40
p0 −2124 ± 1833
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.65
Std Dev 41.86
1.5
1
0.5
0
−0.5
−1
−1.5

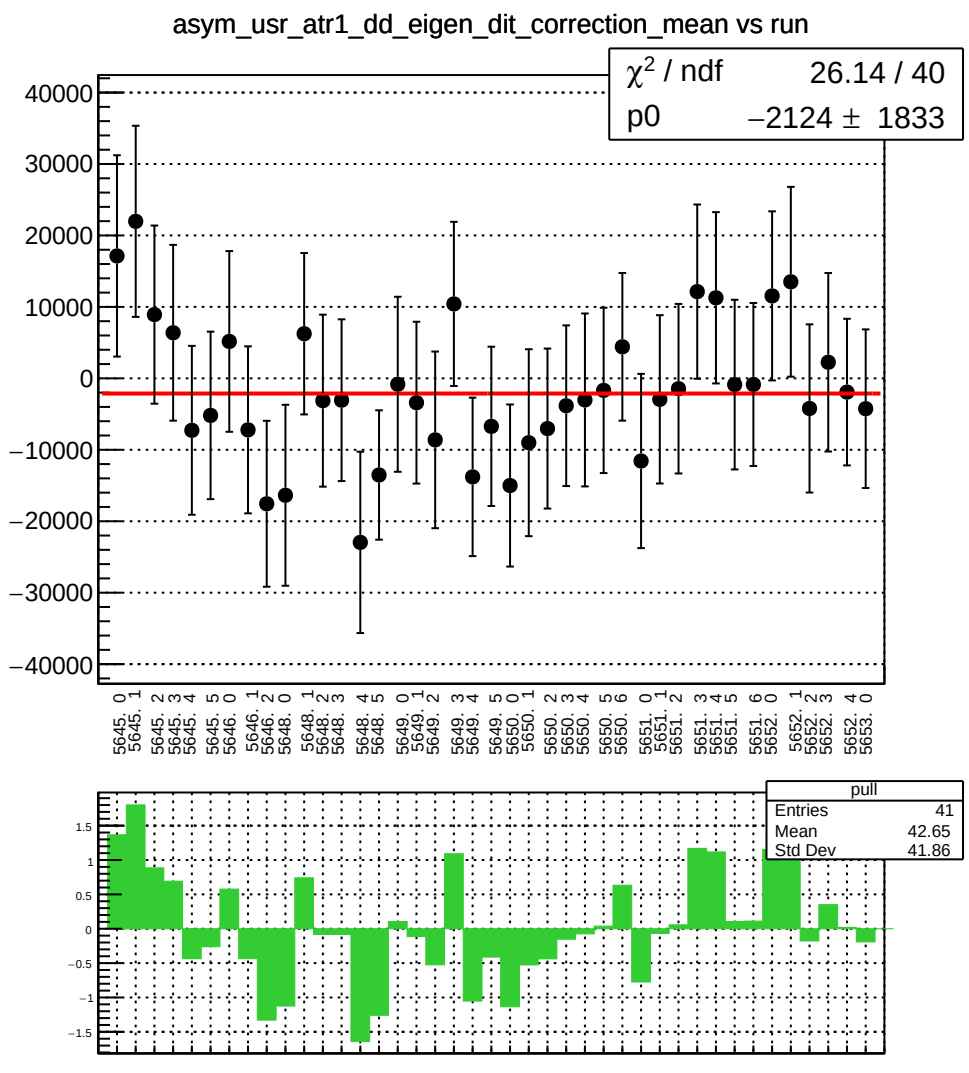

pull1D
Entries 41
Mean 0.02207
Std Dev 0.7982
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

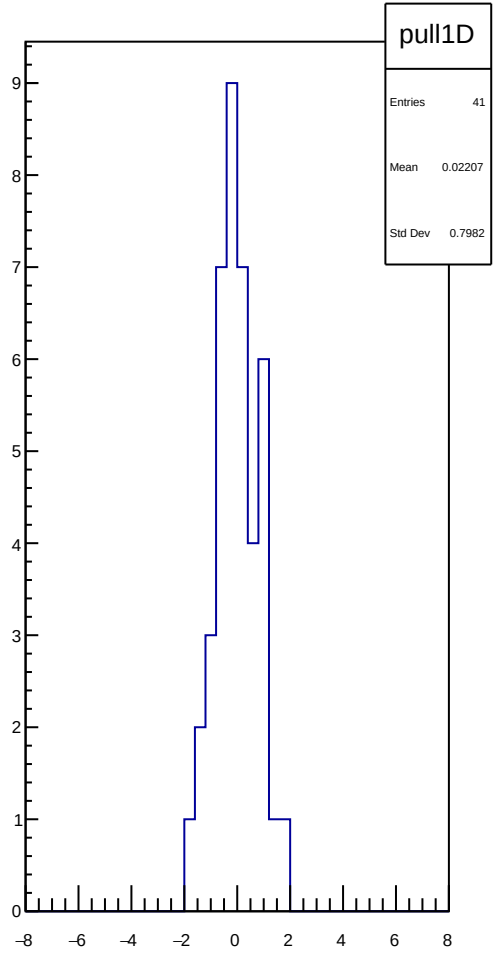

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2635 / 40
p0 1150 ± 1.296
1350
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

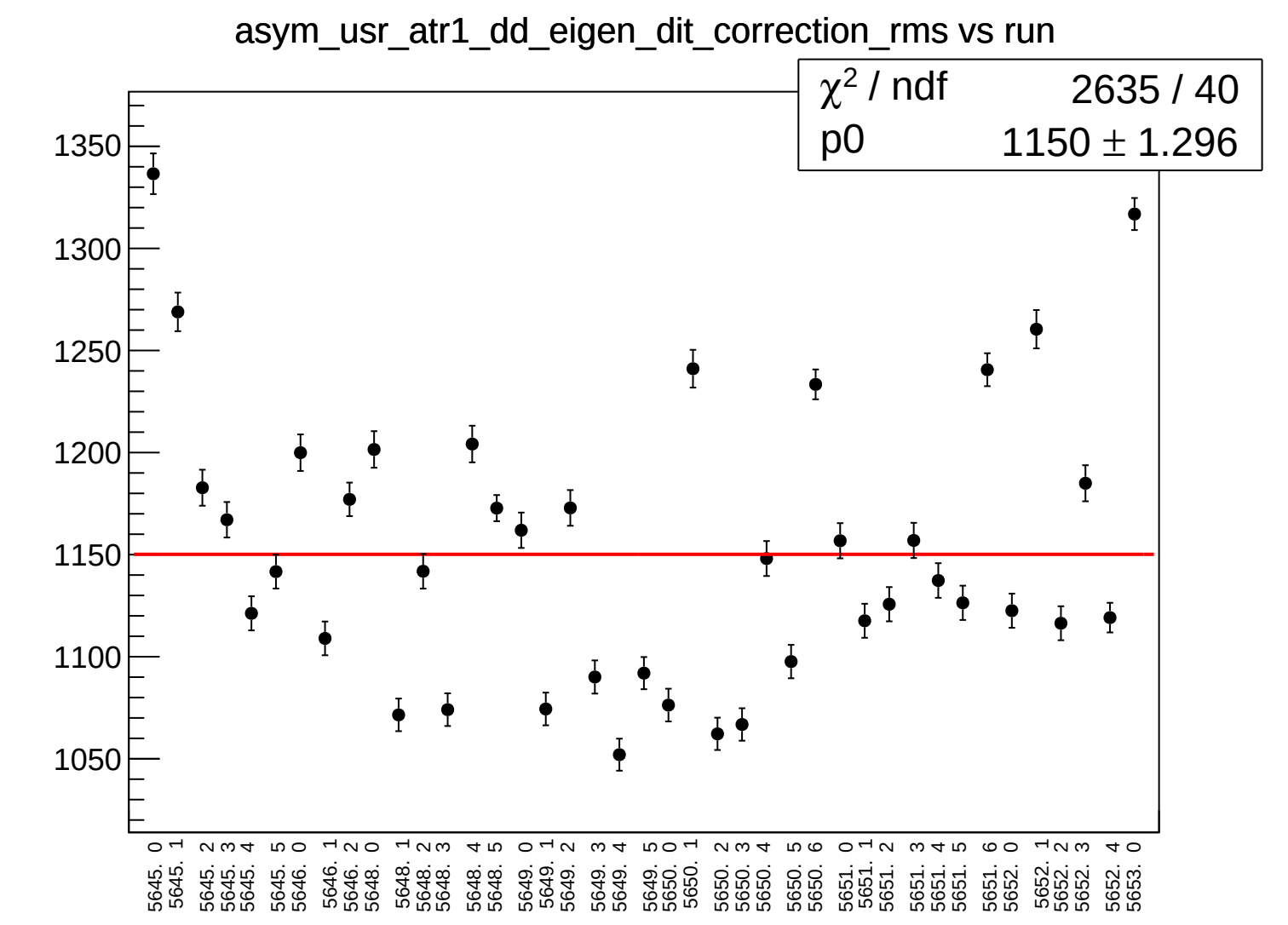

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 52.92 / 40
p0 3638 ± 2073
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 83.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

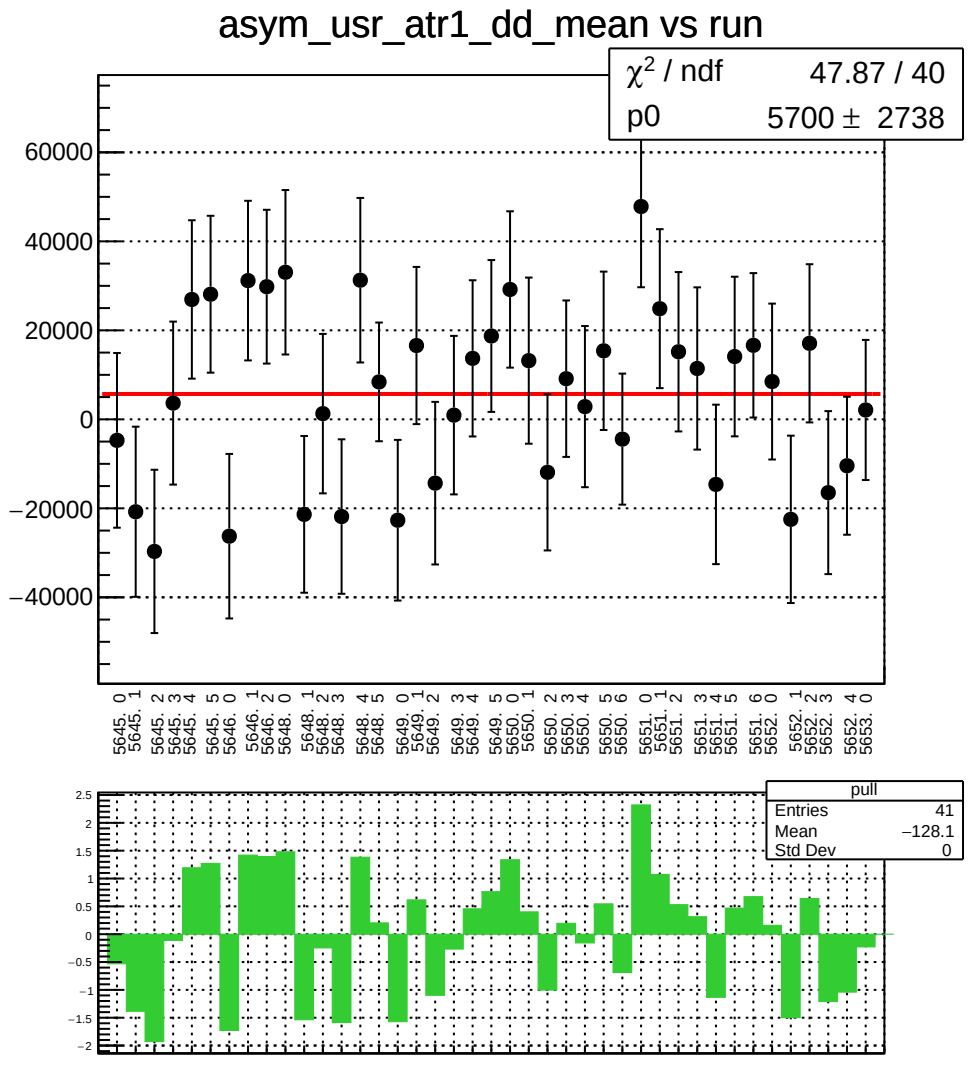

pull1D
Entries 41
Mean 0.01416
Std Dev 1.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

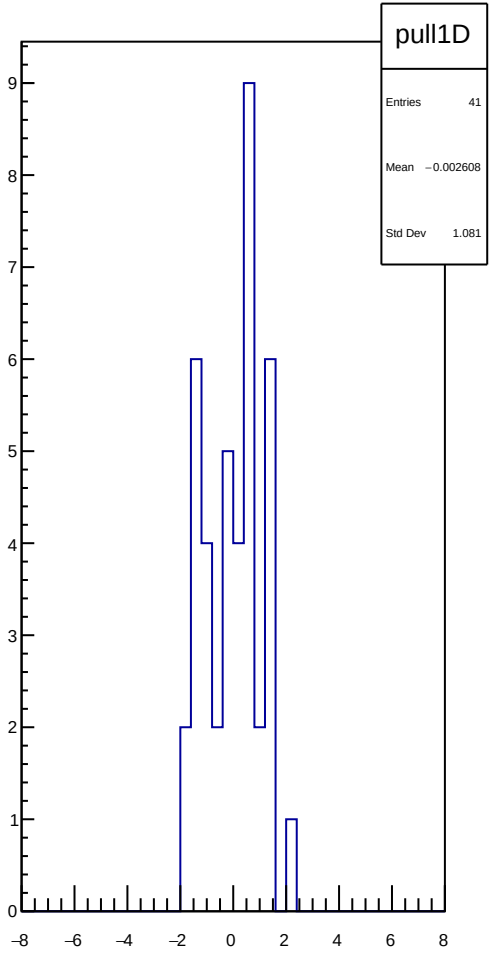

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 125.3 / 40
p0 1303 ± 1.466
1380
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

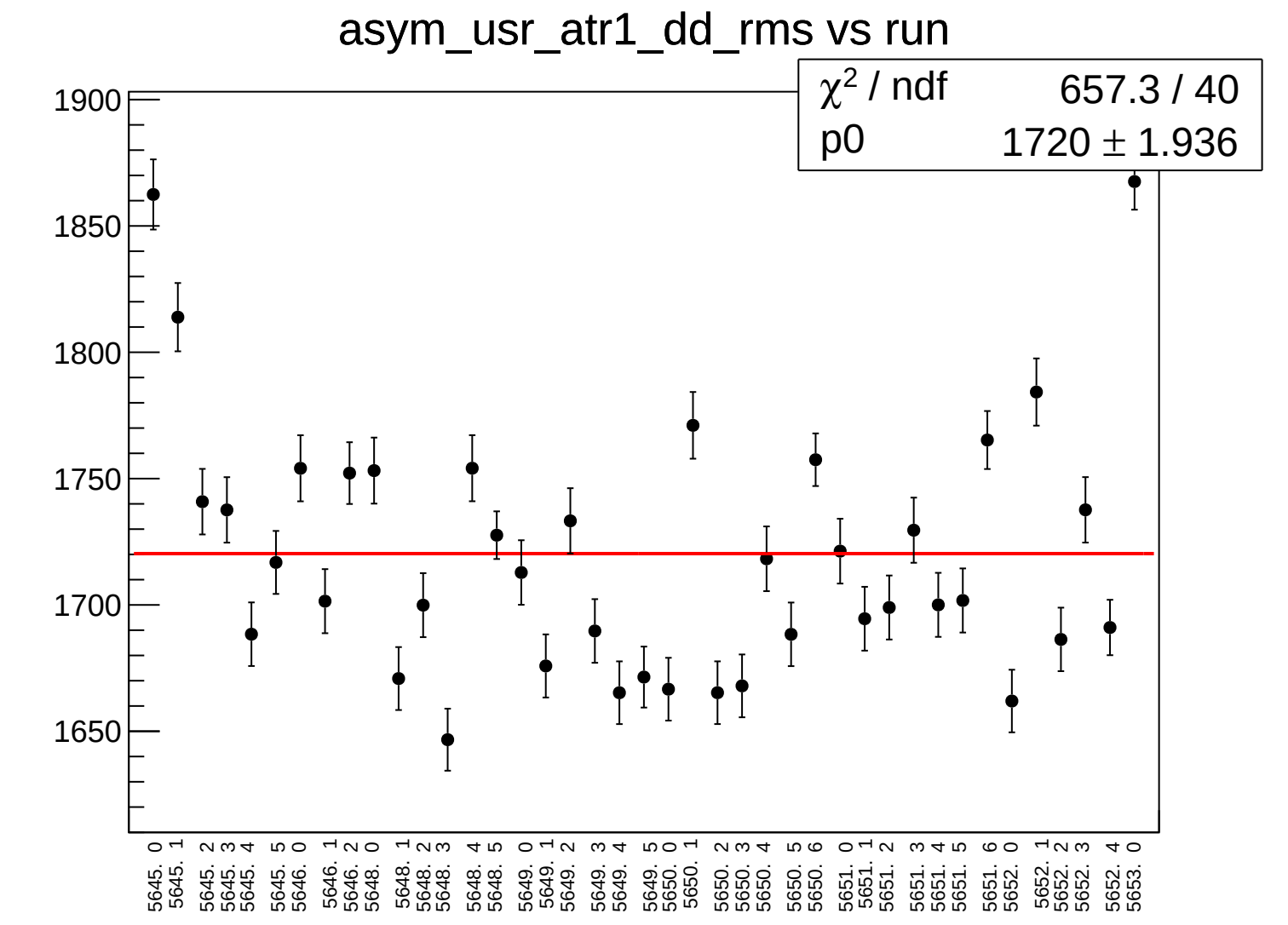

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 26.14 / 40
p0 −2124 ± 1833
pull
Entries 41
Mean 42.65
Std Dev 41.86

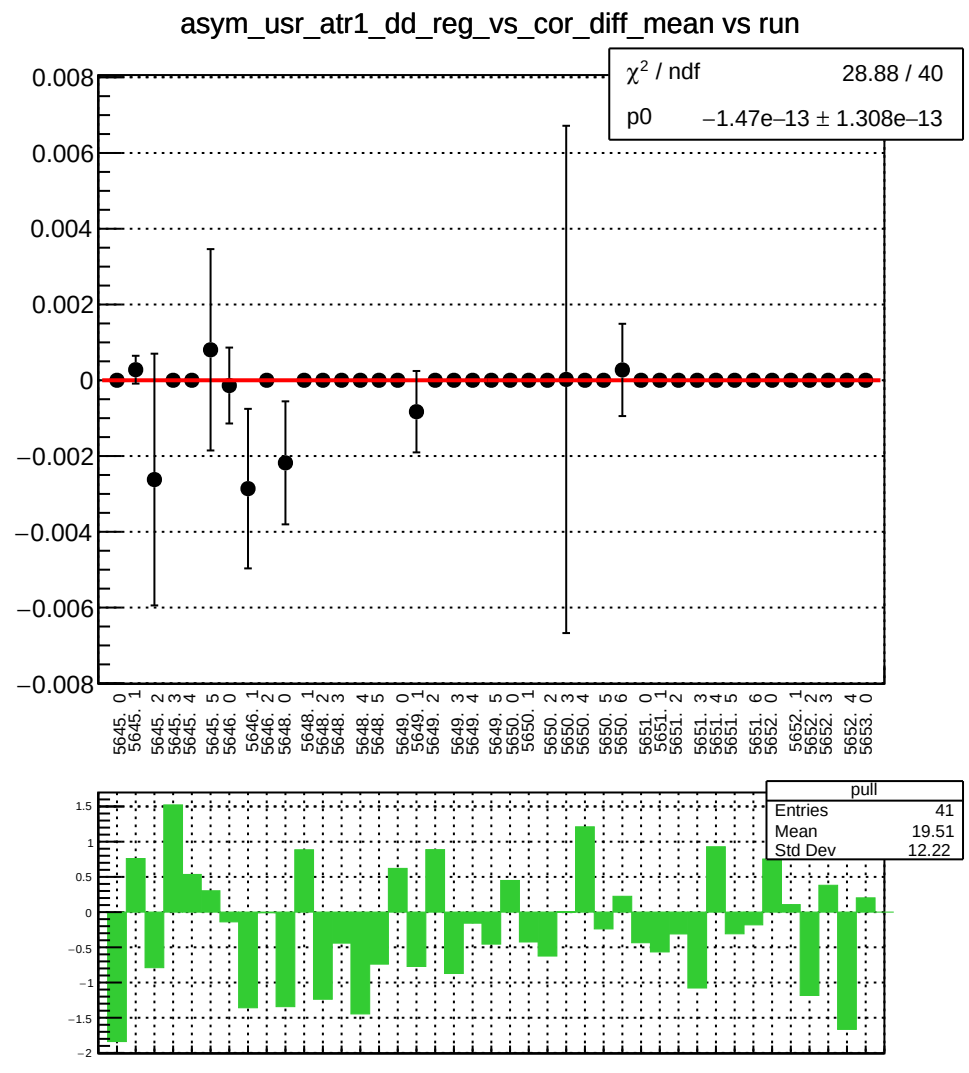

pull1D
Entries 41
Mean 0.02207
Std Dev 0.7982

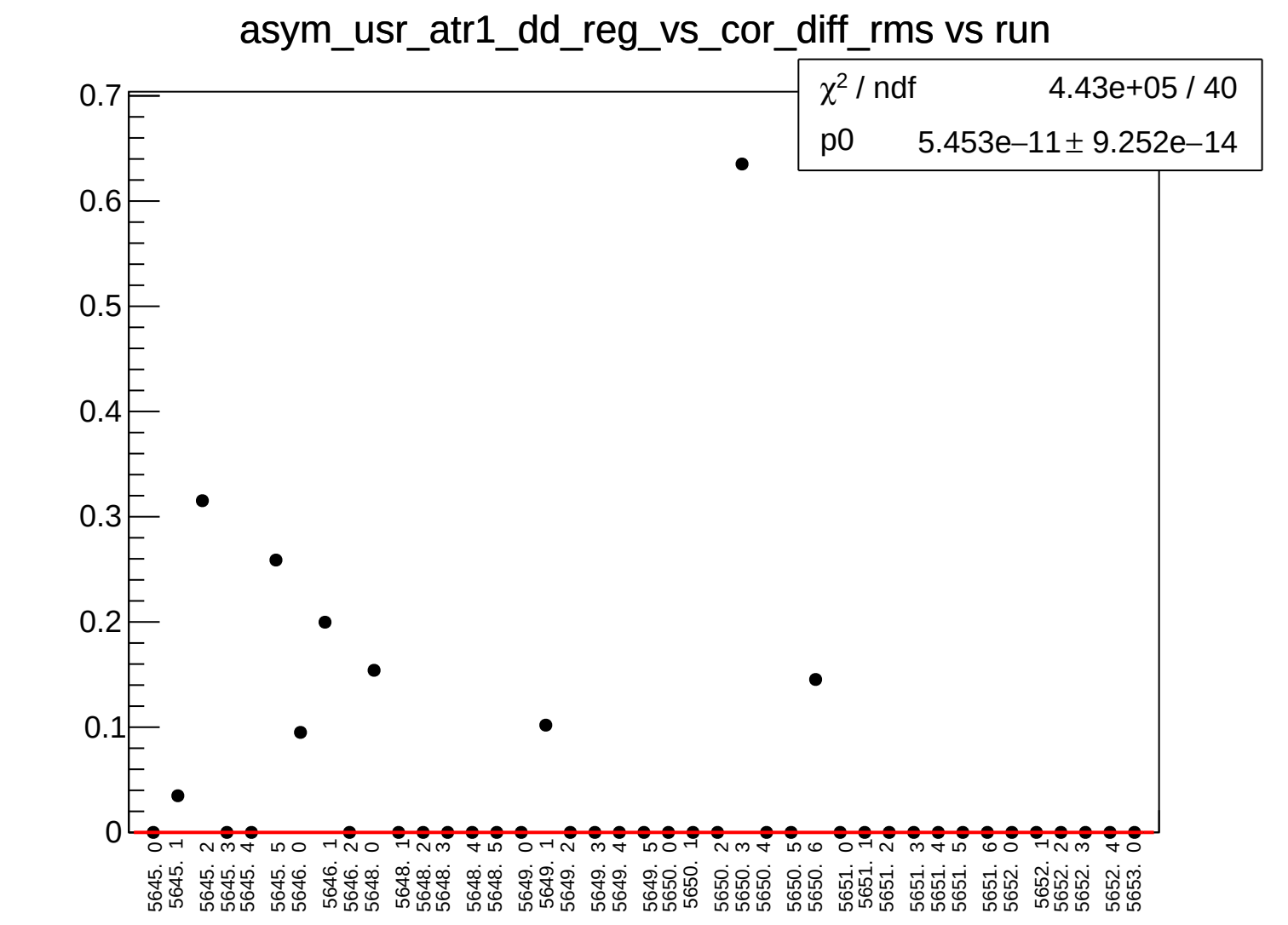

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2635 / 40
p0 1150 ± 1.296
1350
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

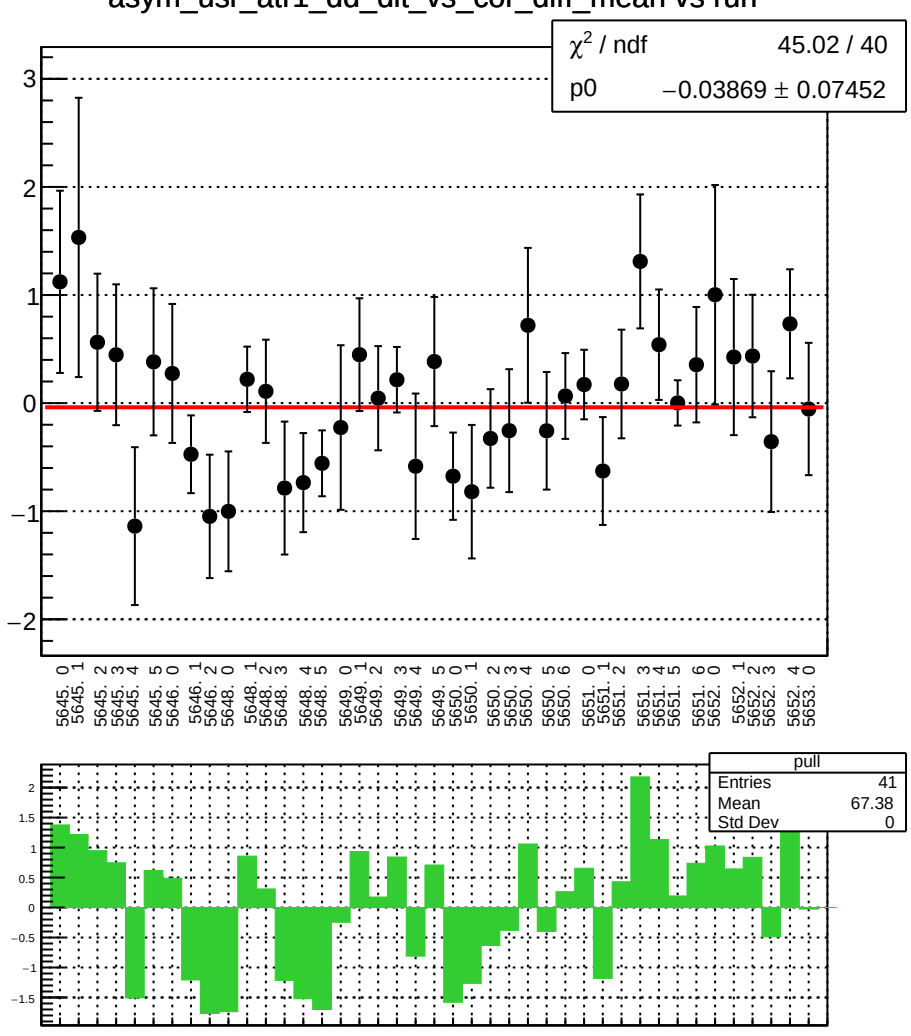

asym_usr_atr1_dd_mean vs run
χ² / ndf 47.87 / 40
p0 5700 ± 2738
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −128.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

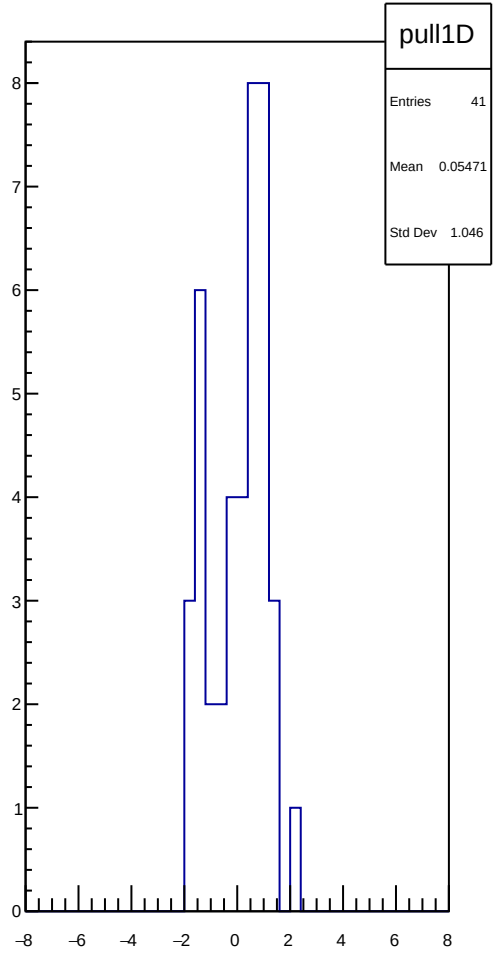

pull1D
Entries 41
Mean −0.002608
Std Dev 1.081
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

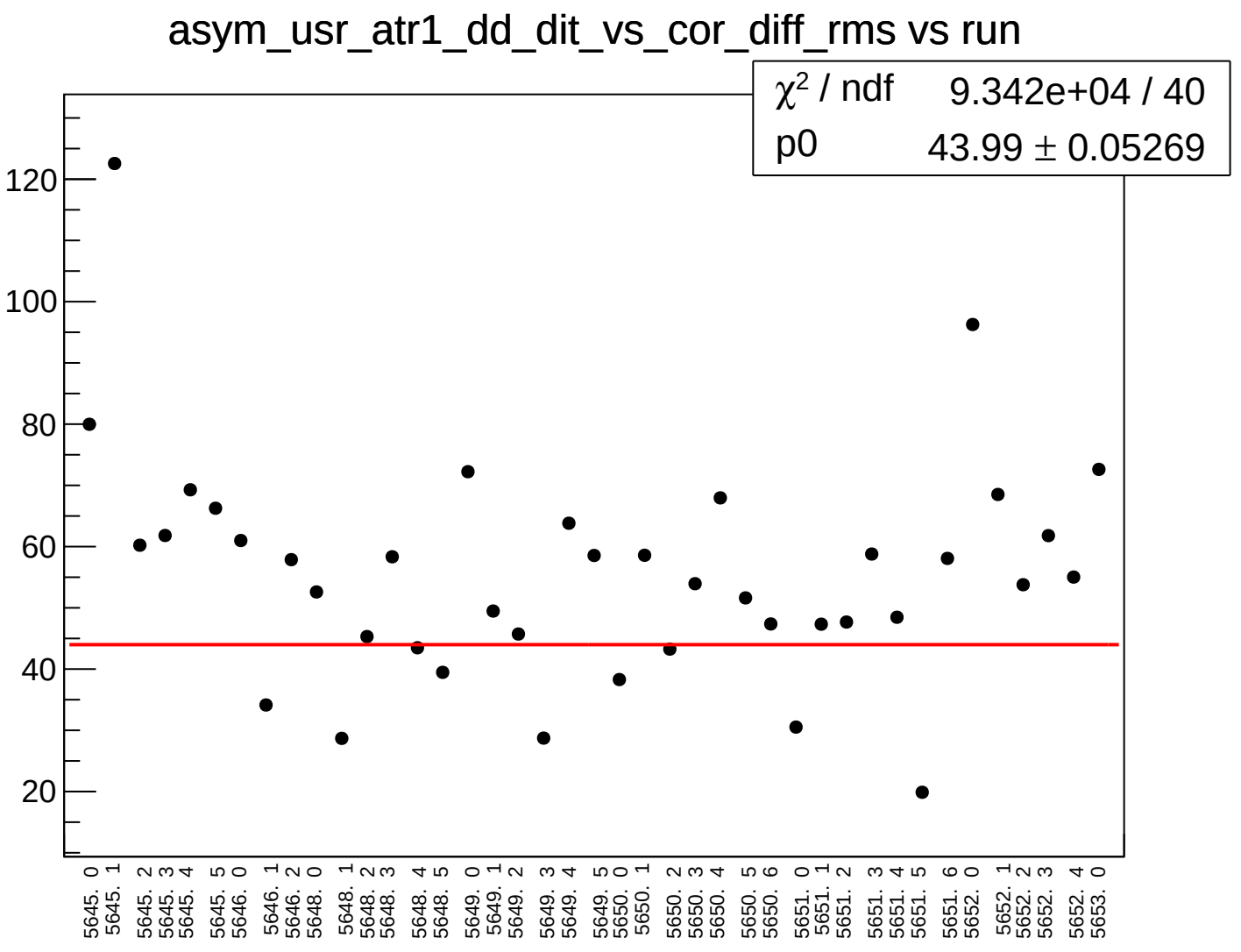

asym_usr_atr1_dd_rms vs run
χ² / ndf 657.3 / 40
p0 1720 ± 1.936
1900
1850
1800
1750
1700
1650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

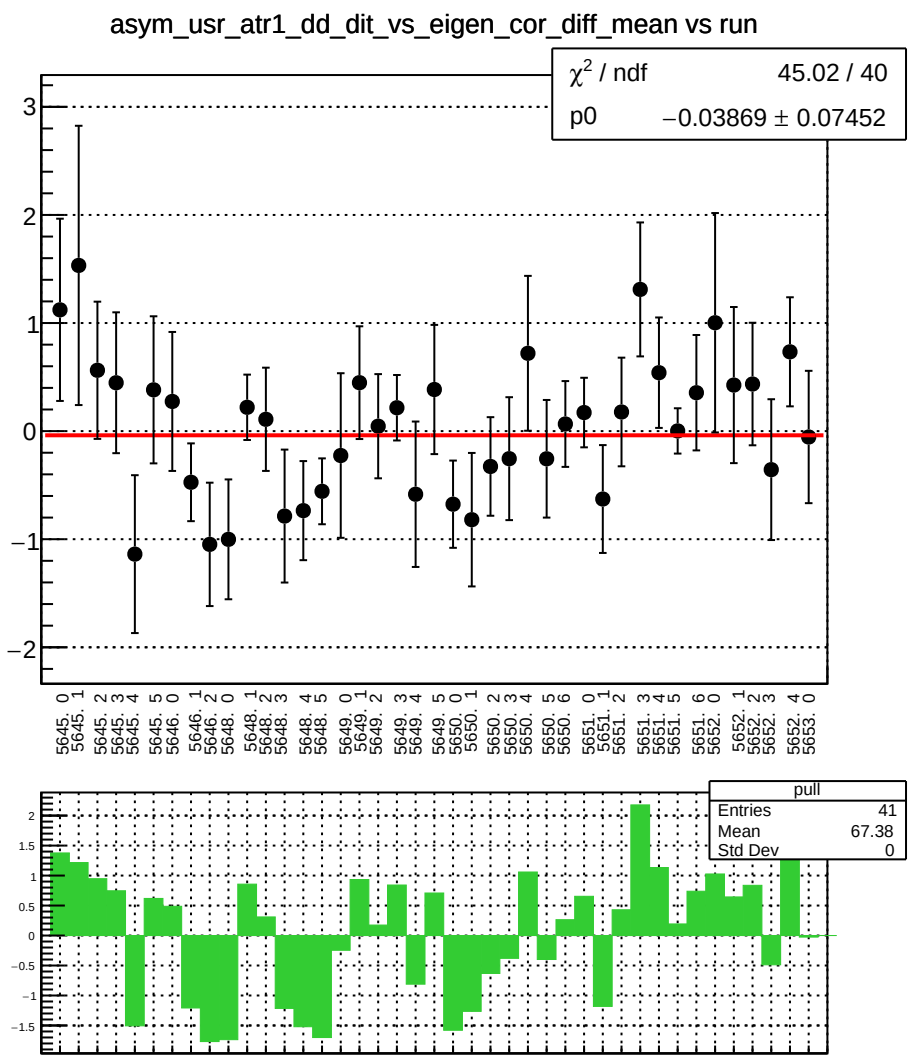

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.88 / 40
p0 −1.47e−13 ± 1.308e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 19.51
Std Dev 12.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.2154
Std Dev 0.8111
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

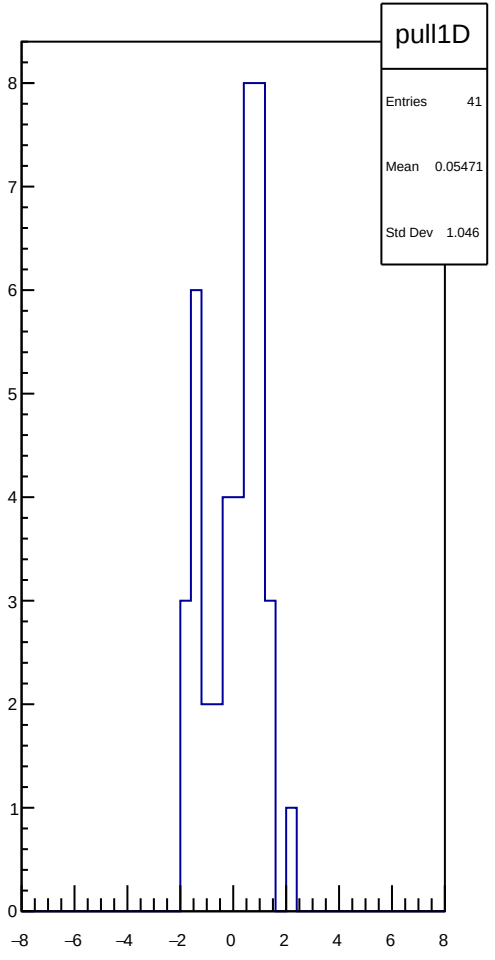

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.43e+05 / 40
p0 5.453e−11 ± 9.252e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

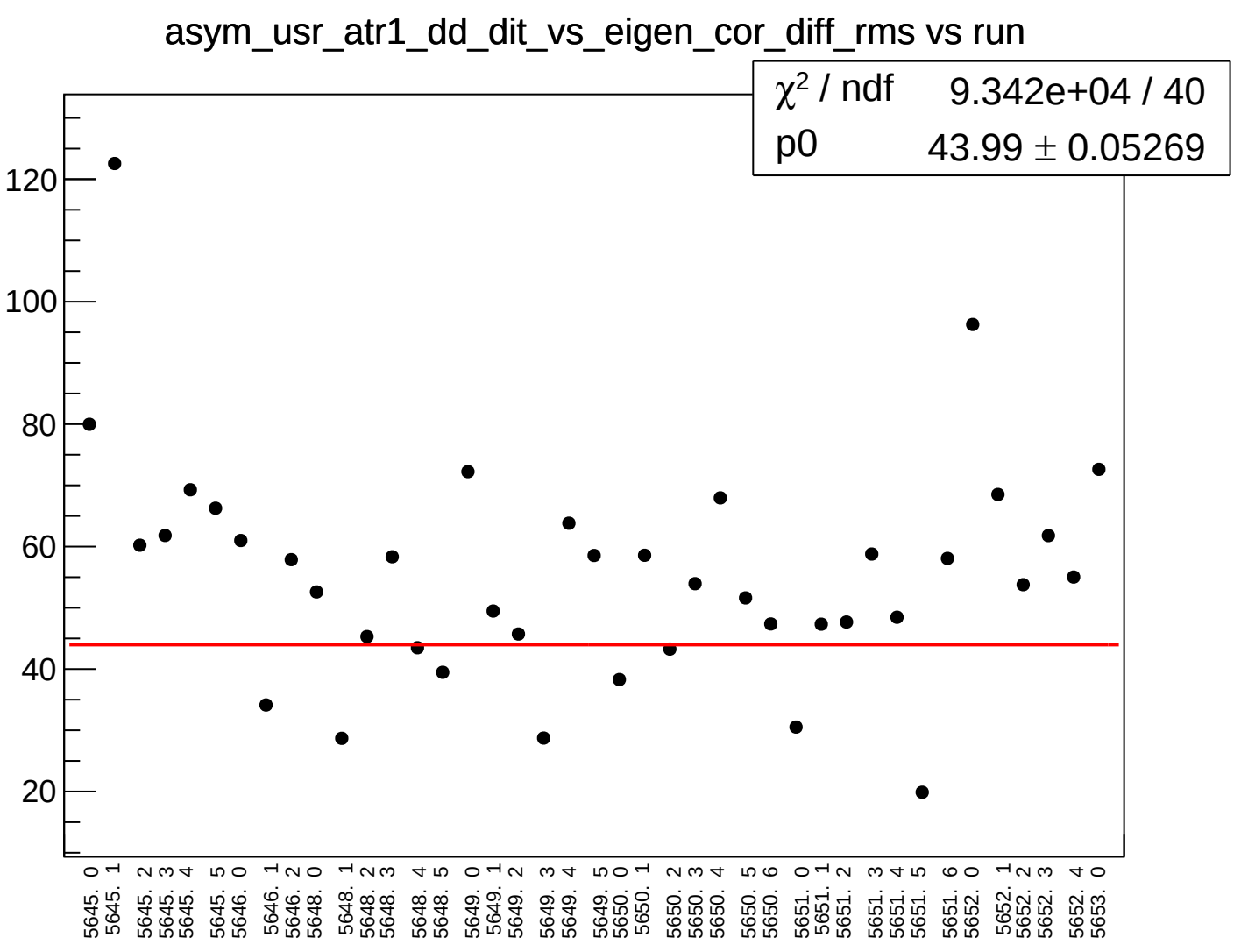

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45.02 / 40
p0 −0.03869 ± 0.07452
pull
Entries 41
Mean 67.38
Std Dev 0

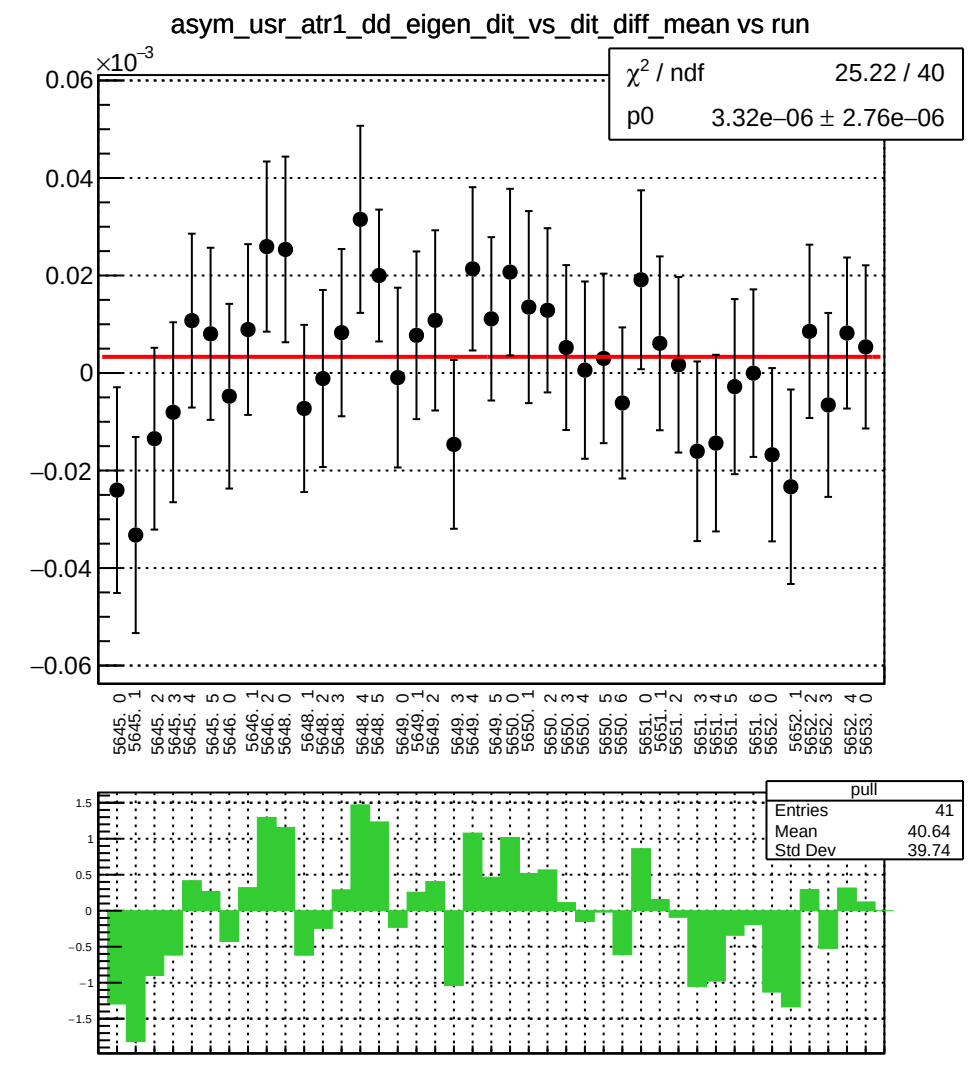

pull1D
Entries 41
Mean 0.05471
Std Dev 1.046

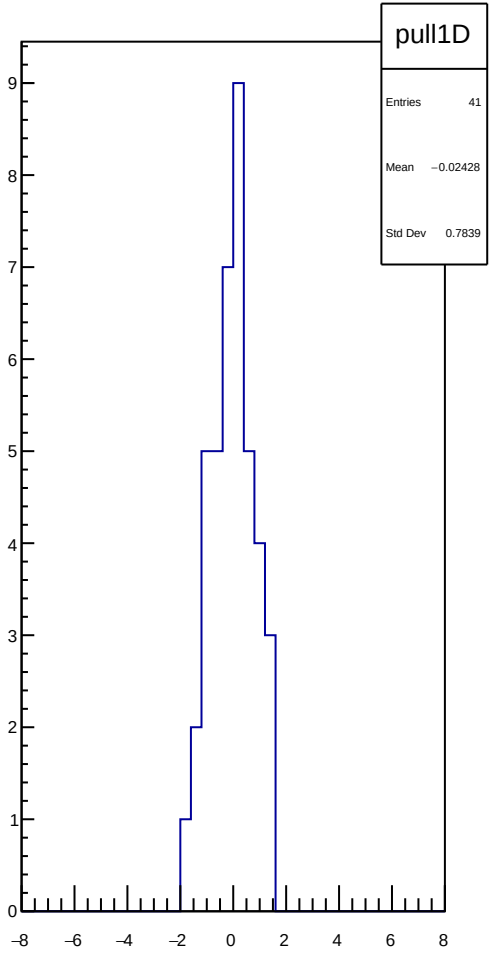

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.342e+04 / 40
p0 43.99 ± 0.05269
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

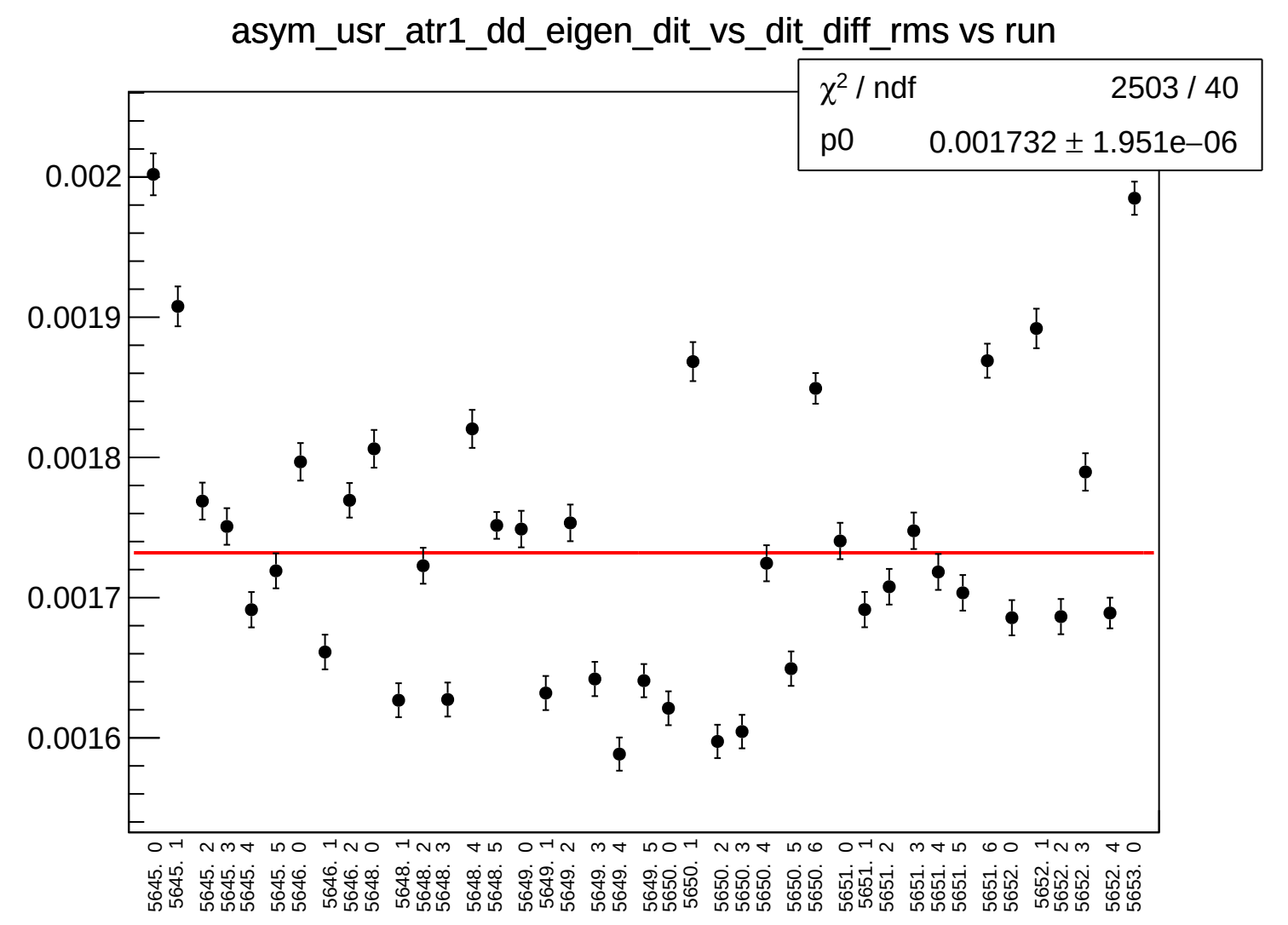

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.02 / 40
p0 −0.03869 ± 0.07452
pull
Entries 41
Mean 67.38
Std Dev 0

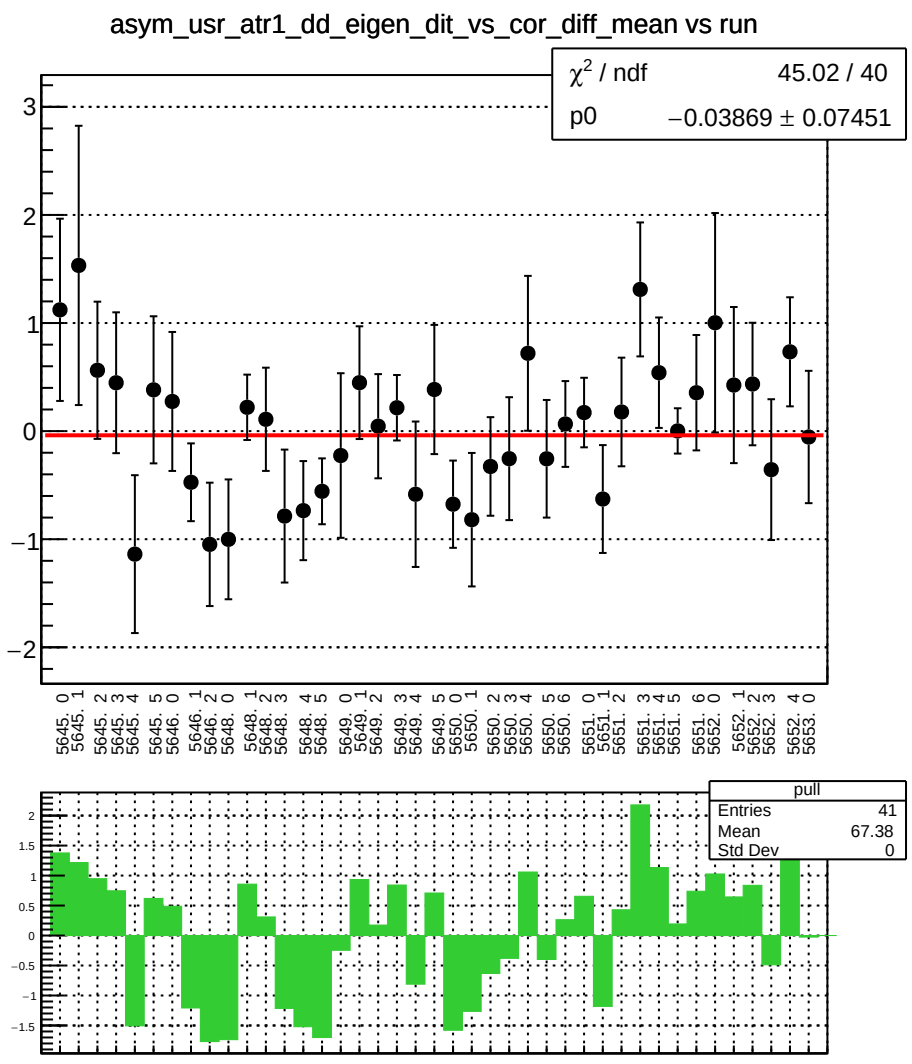

pull1D
Entries 41
Mean 0.05471
Std Dev 1.046

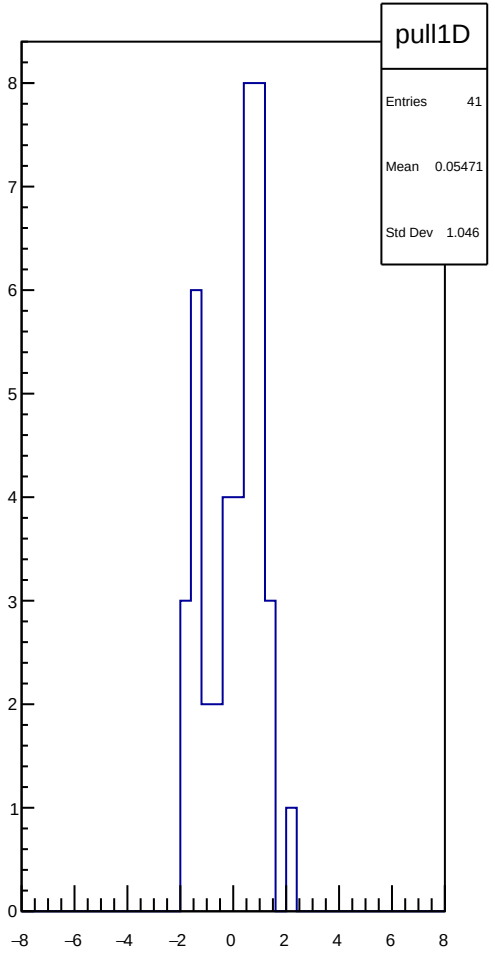

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.342e+04 / 40
p0 43.99 ± 0.05269
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

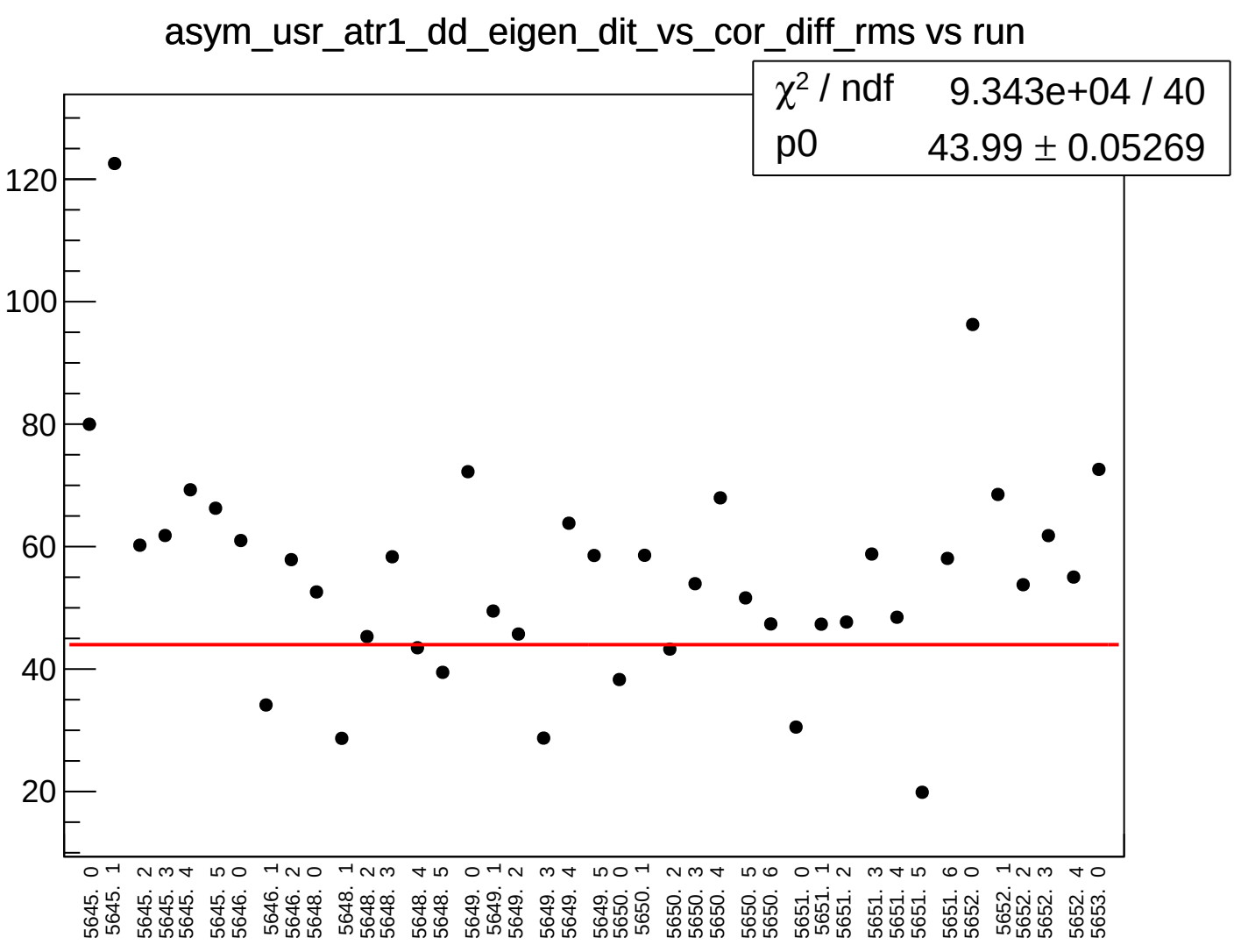

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.22 / 40
p0 3.32e−06 ± 2.76e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.64
Std Dev 39.74
1.5
1
0.5
0
−0.5
−1
−1.5

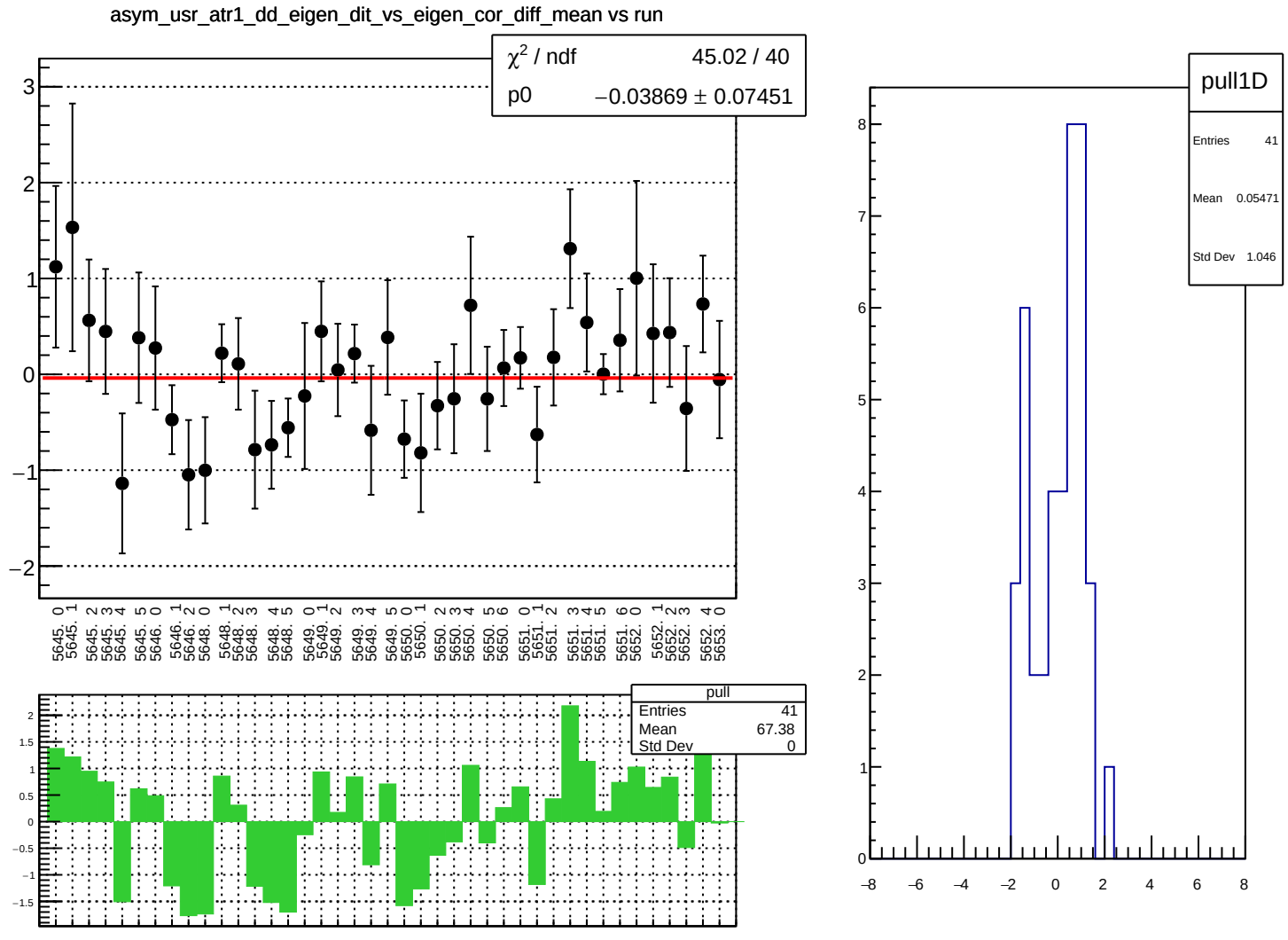

pull1D
Entries 41
Mean −0.02428
Std Dev 0.7839
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

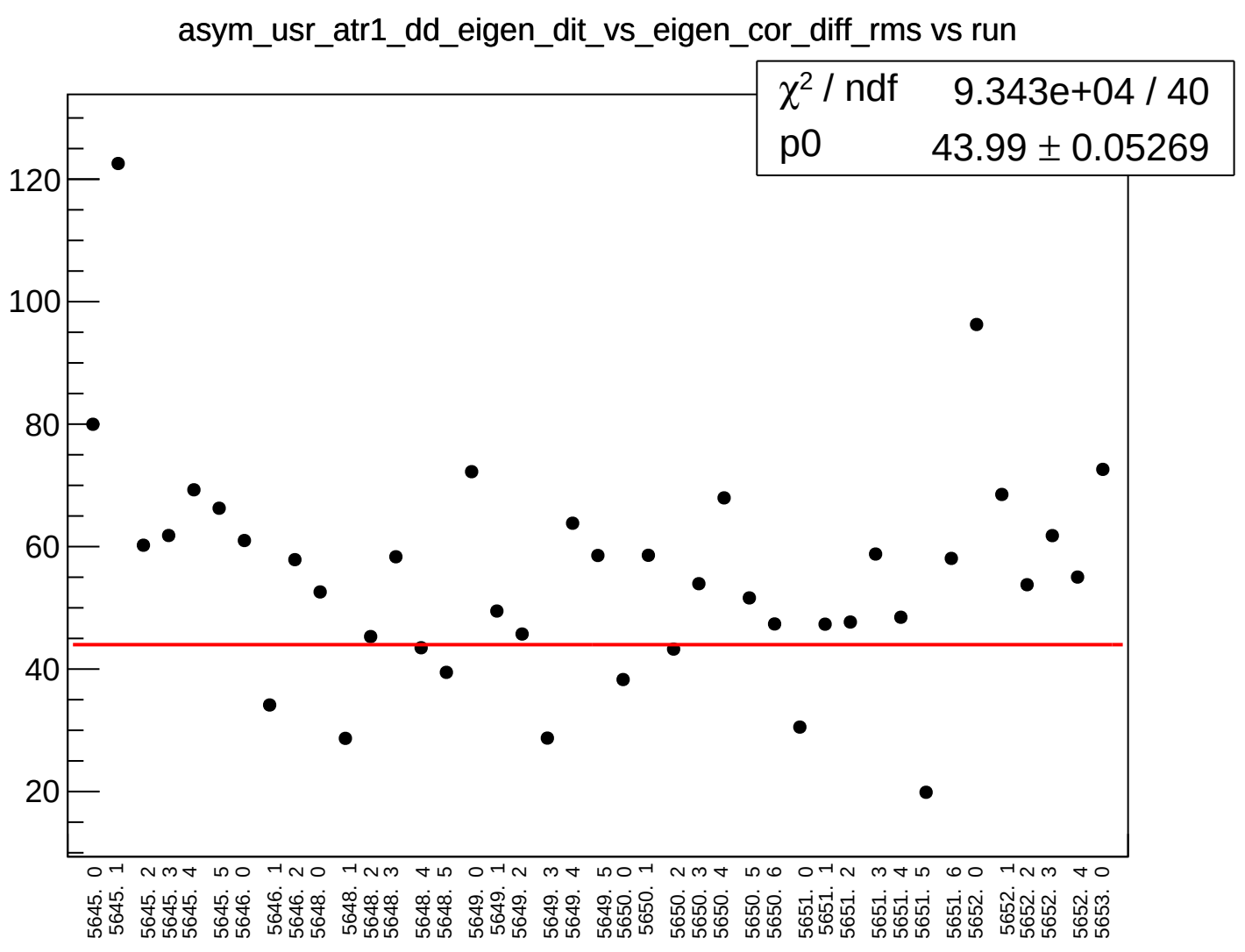

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2503 / 40
p0 0.001732 ± 1.951e−06
0.002
0.0019
0.0018
0.0017
0.0016
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

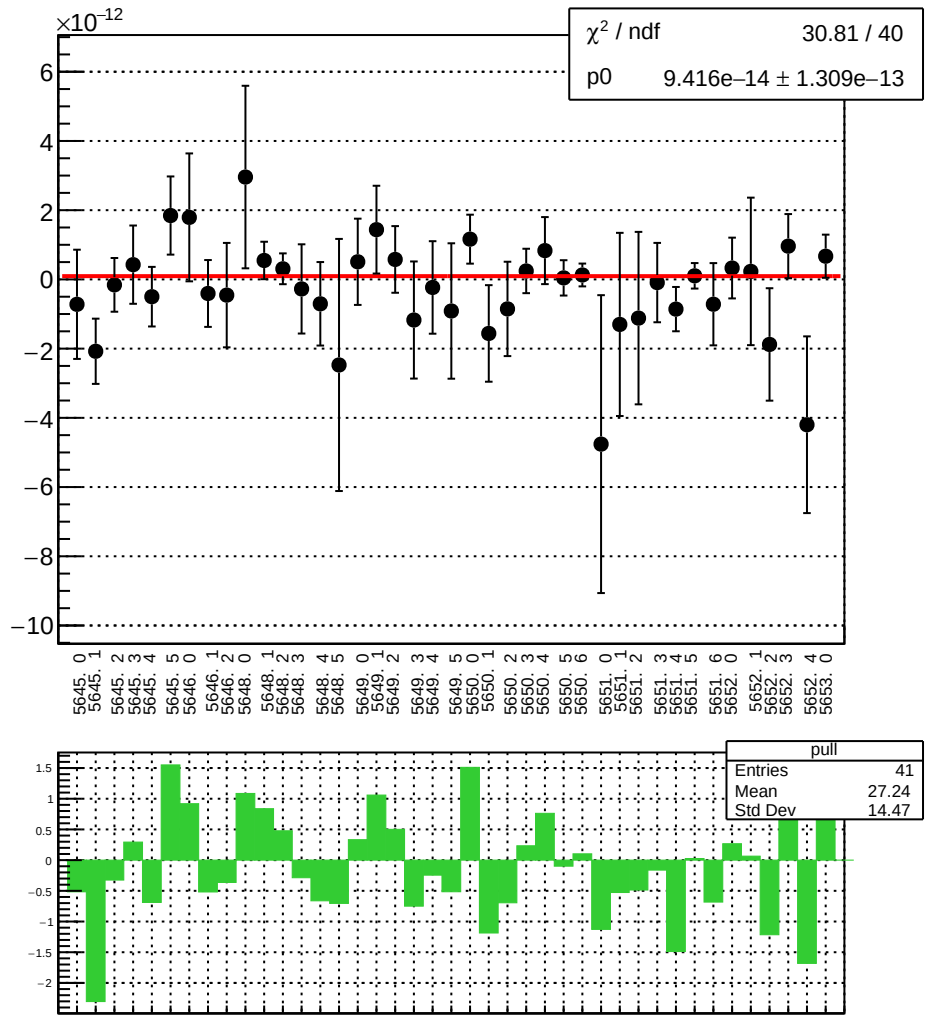

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.02 / 40
p0 −0.03869 ± 0.07451
pull
Entries 41
Mean 67.38
Std Dev 0

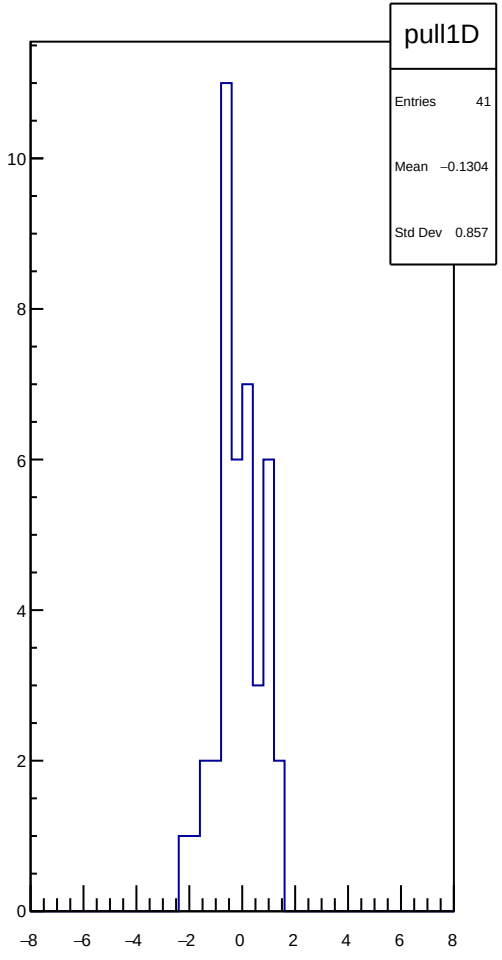

pull1D
Entries 41
Mean 0.05471
Std Dev 1.046

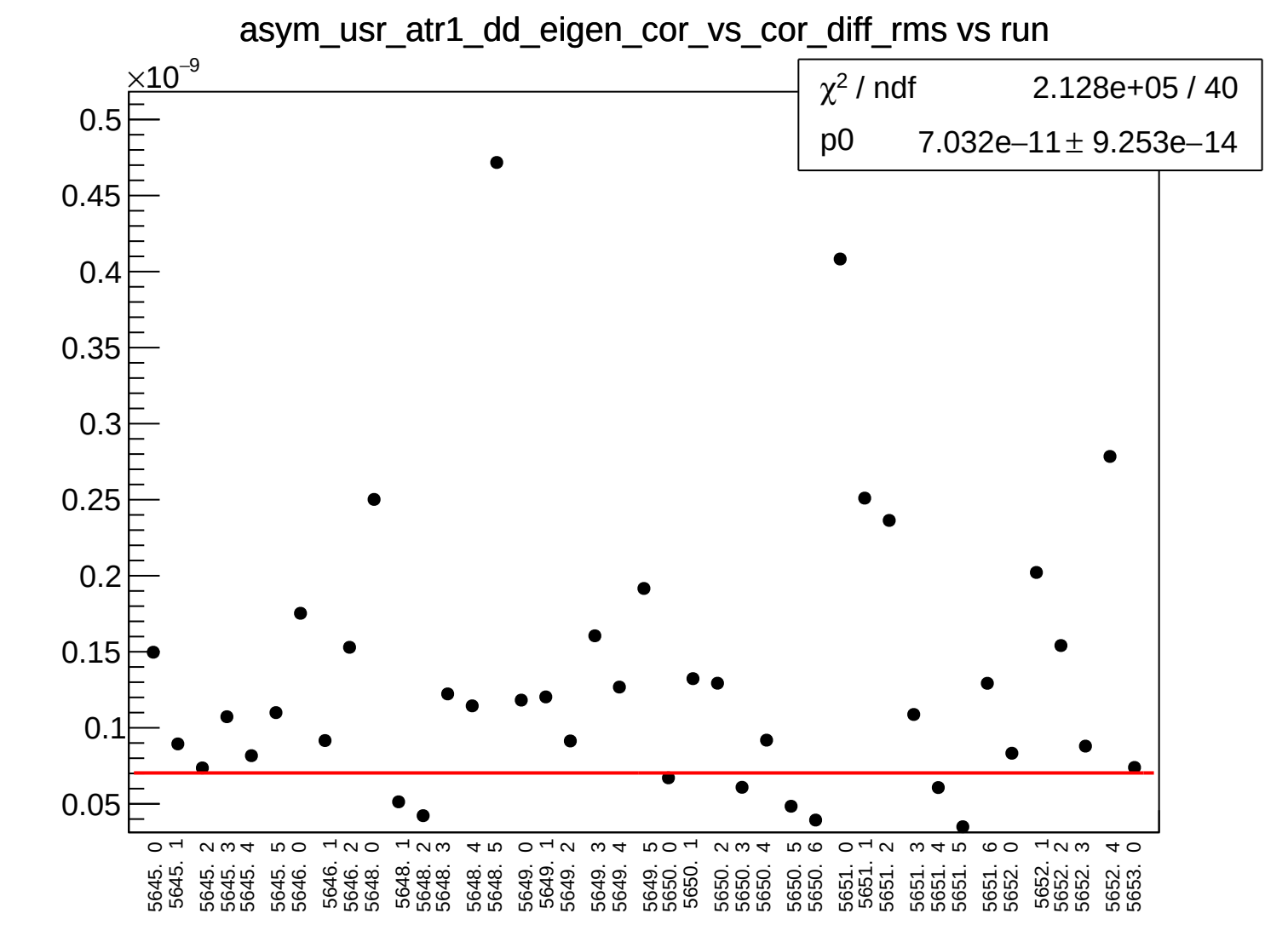

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.343e+04 / 40
p0 43.99 ± 0.05269
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

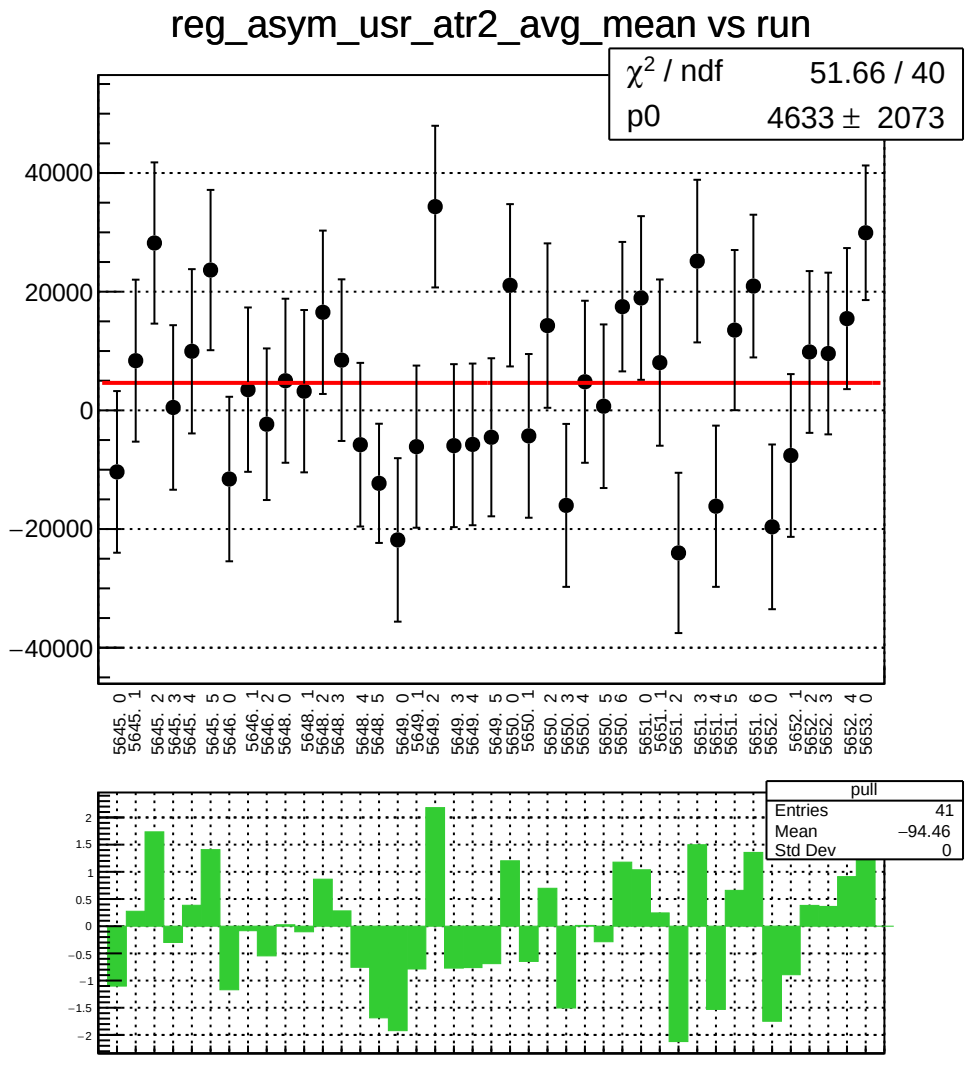

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.02 / 40
p0 −0.03869 ± 0.07451
pull
Entries 41
Mean 67.38
Std Dev 0
pull1D
Entries 41
Mean 0.05471
Std Dev 1.046

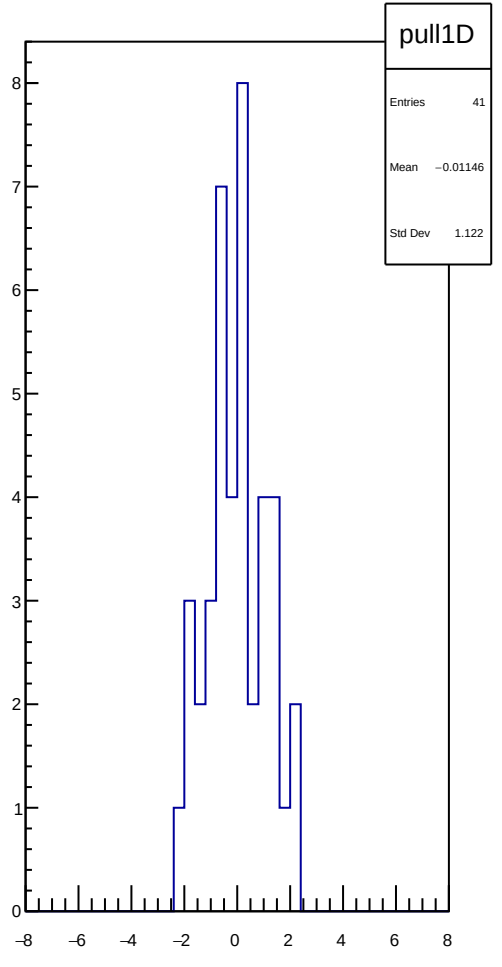

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.343e+04 / 40
p0 43.99 ± 0.05269
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

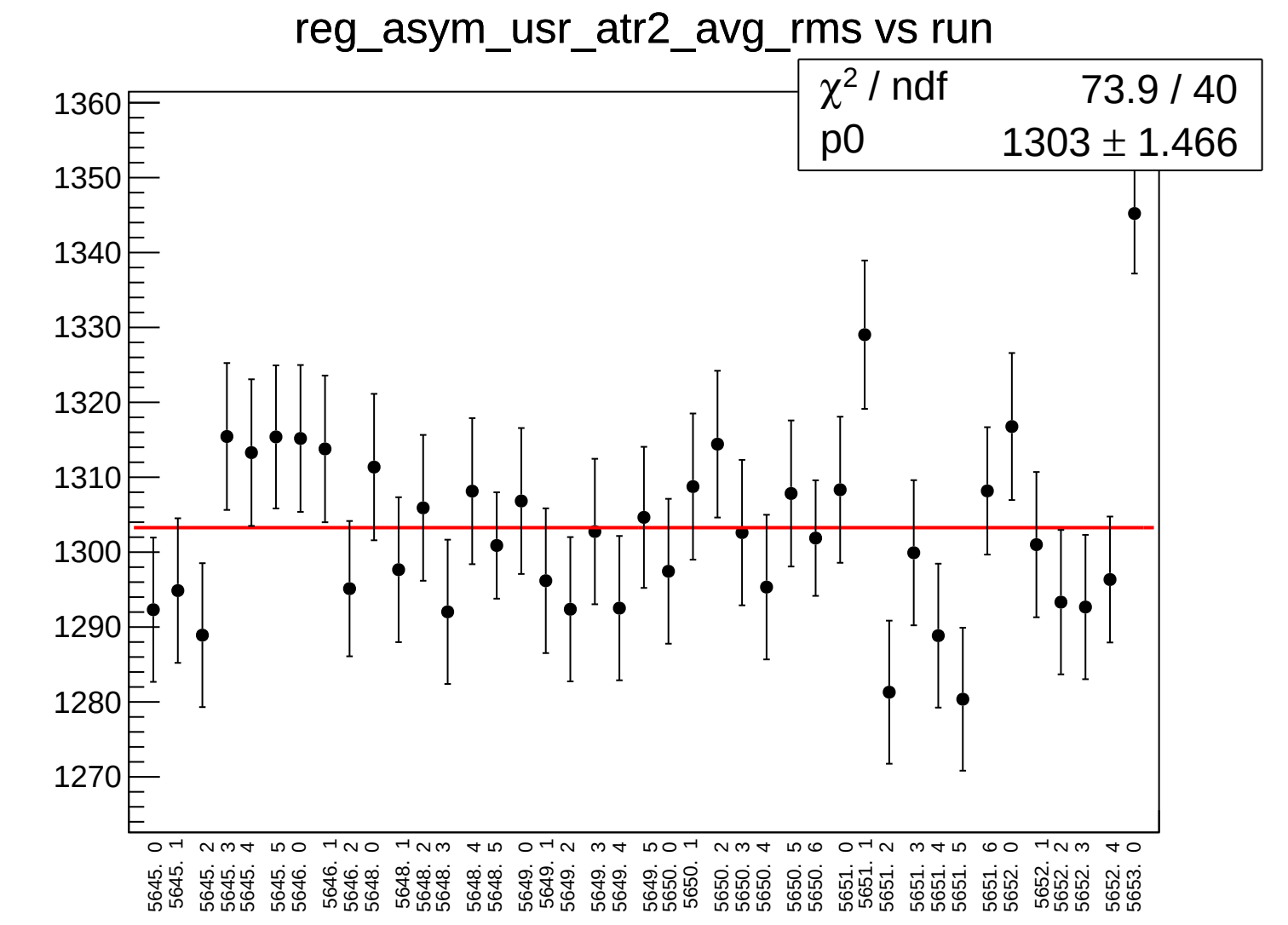

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.81 / 40
p0 9.416e−14 ± 1.309e−13
pull
Entries 41
Mean 27.24
Std Dev 14.47

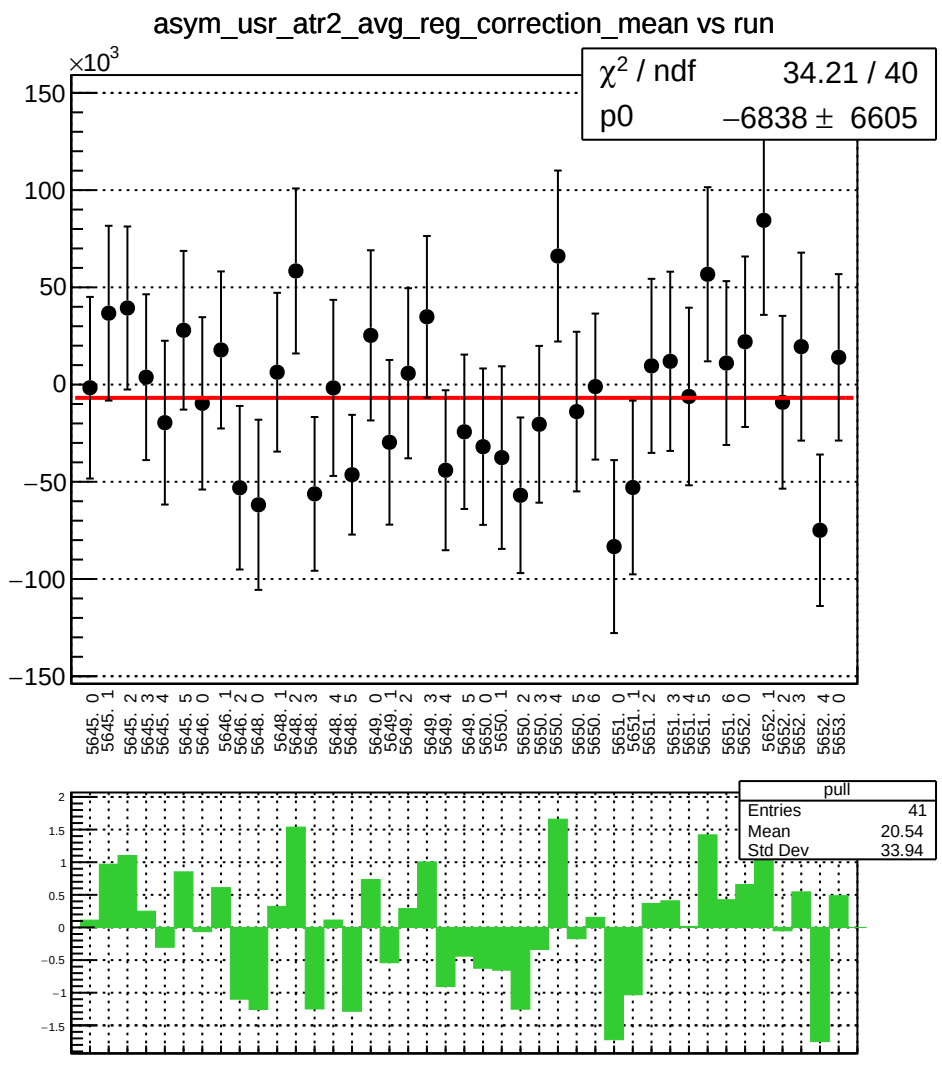

pull1D
Entries 41
Mean −0.1304
Std Dev 0.857

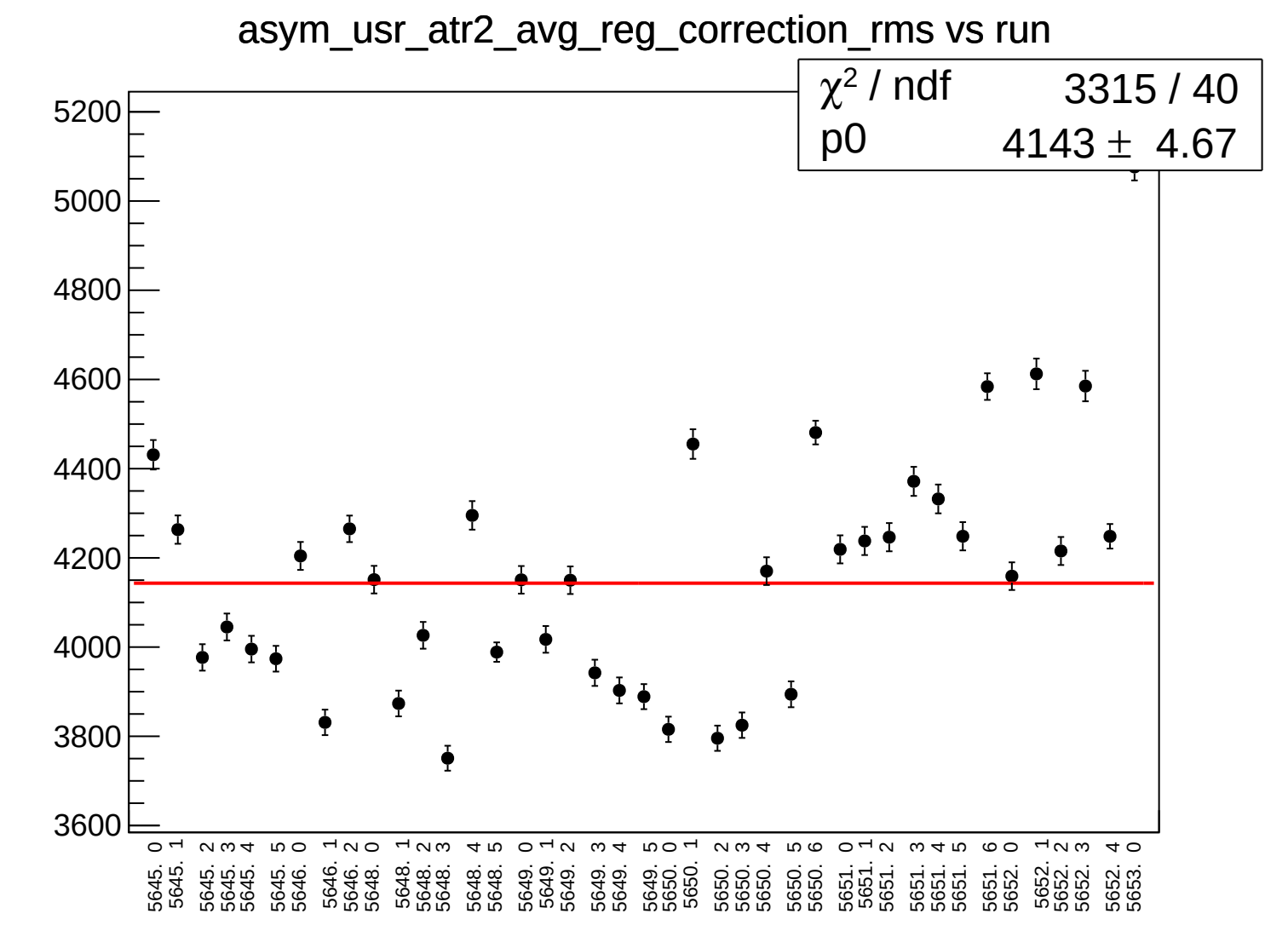

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.128e+05 / 40
p0 7.032e−11 ± 9.253e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

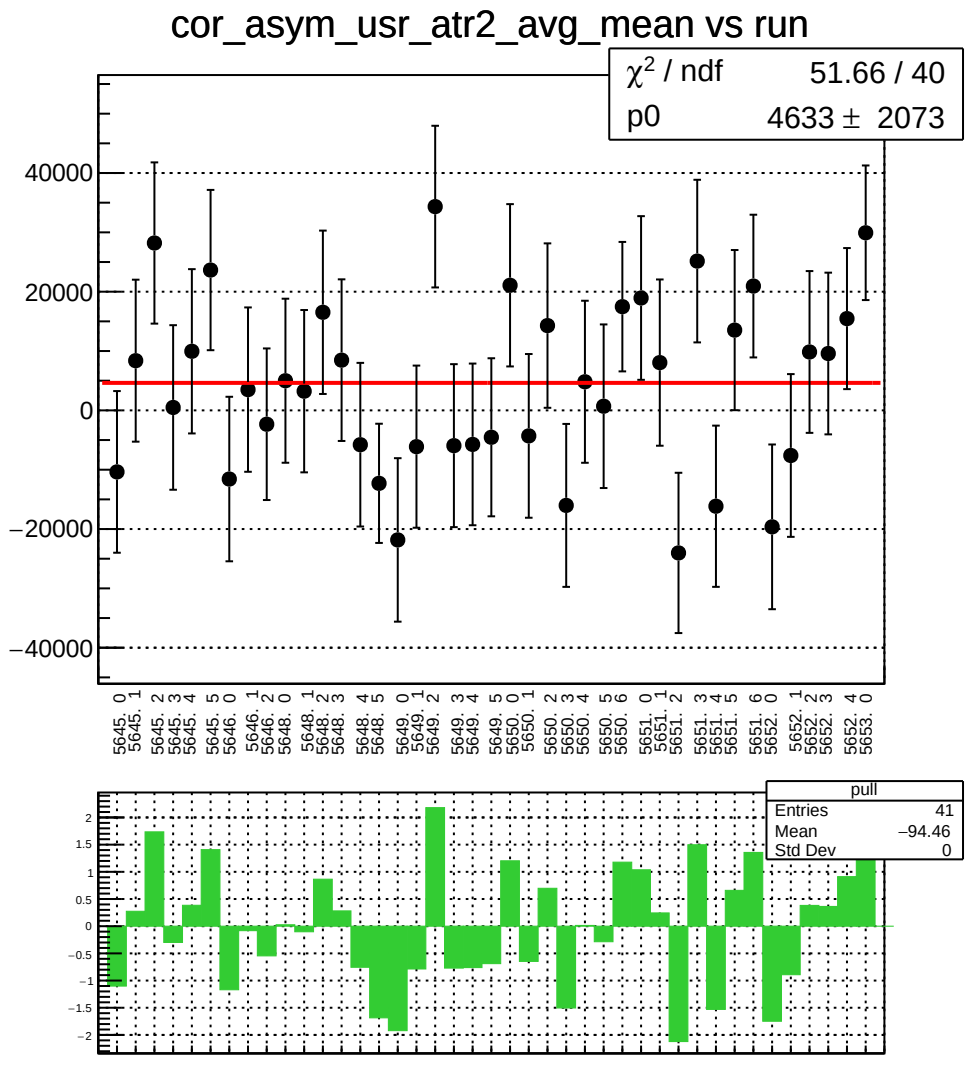

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.66 / 40
p0 4633 ± 2073
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −94.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

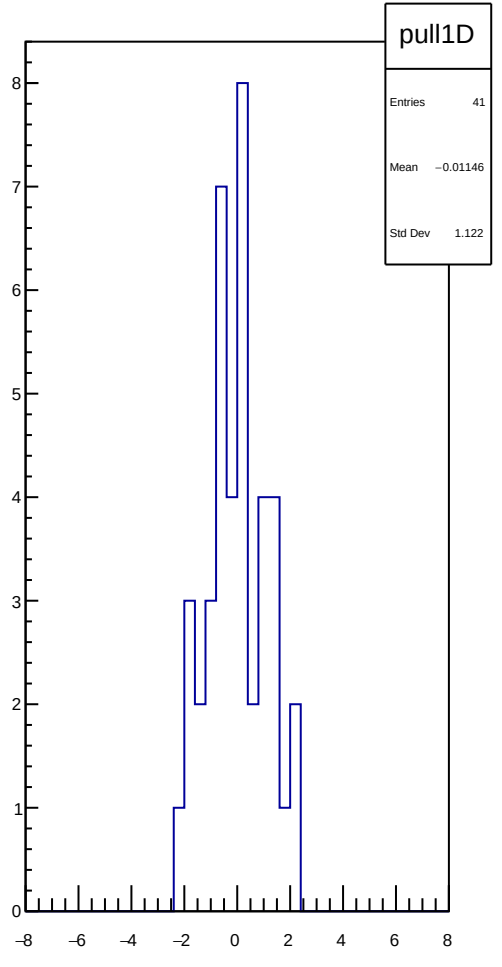

pull1D
Entries 41
Mean −0.01146
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 73.9 / 40
p0 1303 ± 1.466
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 34.21 / 40
p0 −6838 ± 6605
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.54
Std Dev 33.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0289
Std Dev 0.913
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 3315 / 40
p0 4143 ± 4.67
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.66 / 40
p0 4633 ± 2073
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −94.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01146
Std Dev 1.122
8
7
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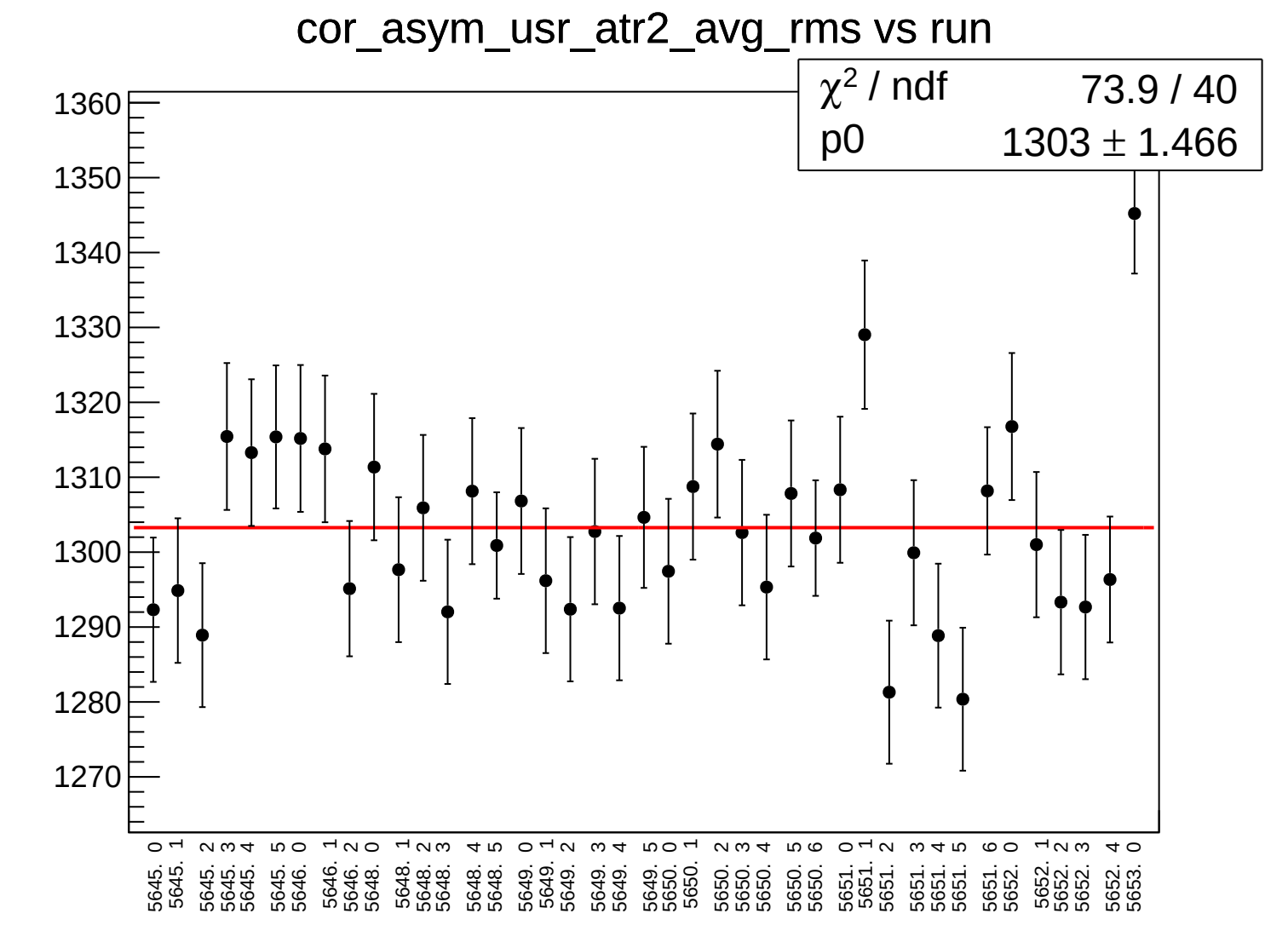
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 73.9 / 40
p0 1303 ± 1.466
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
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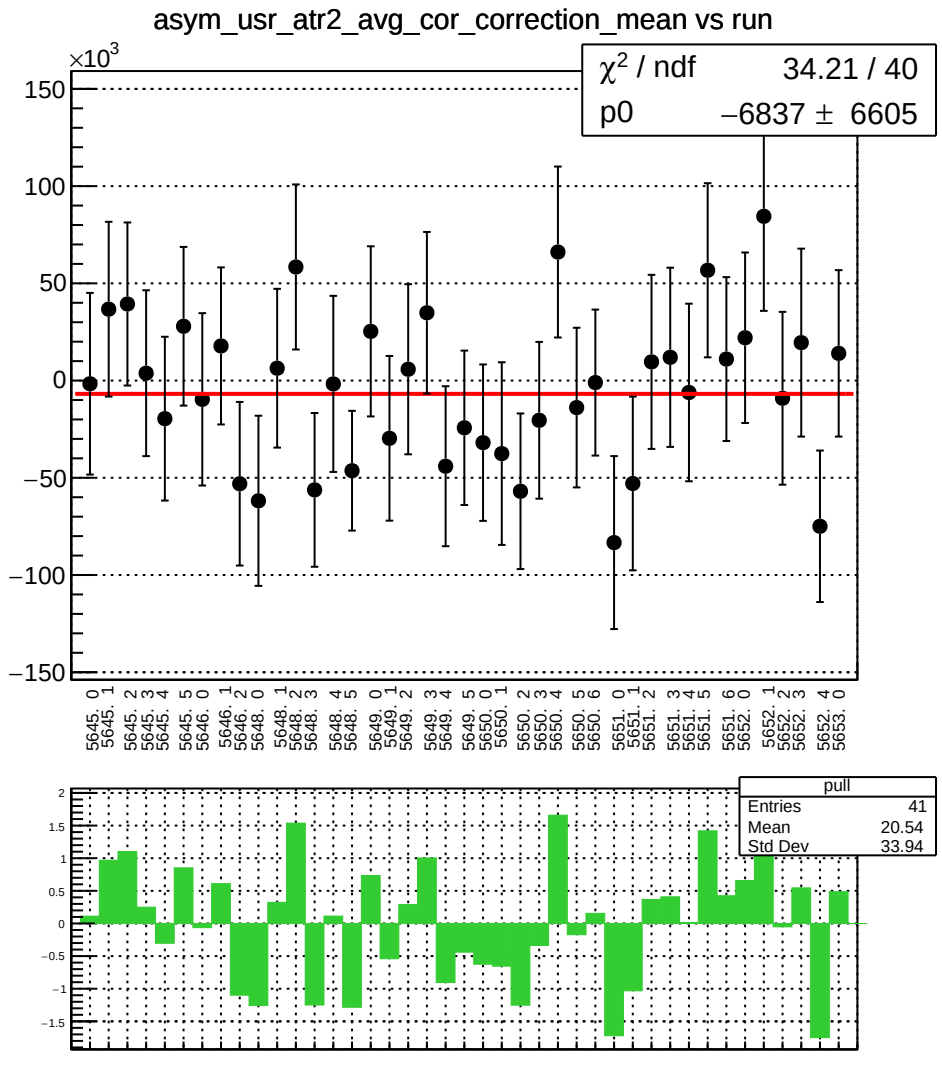
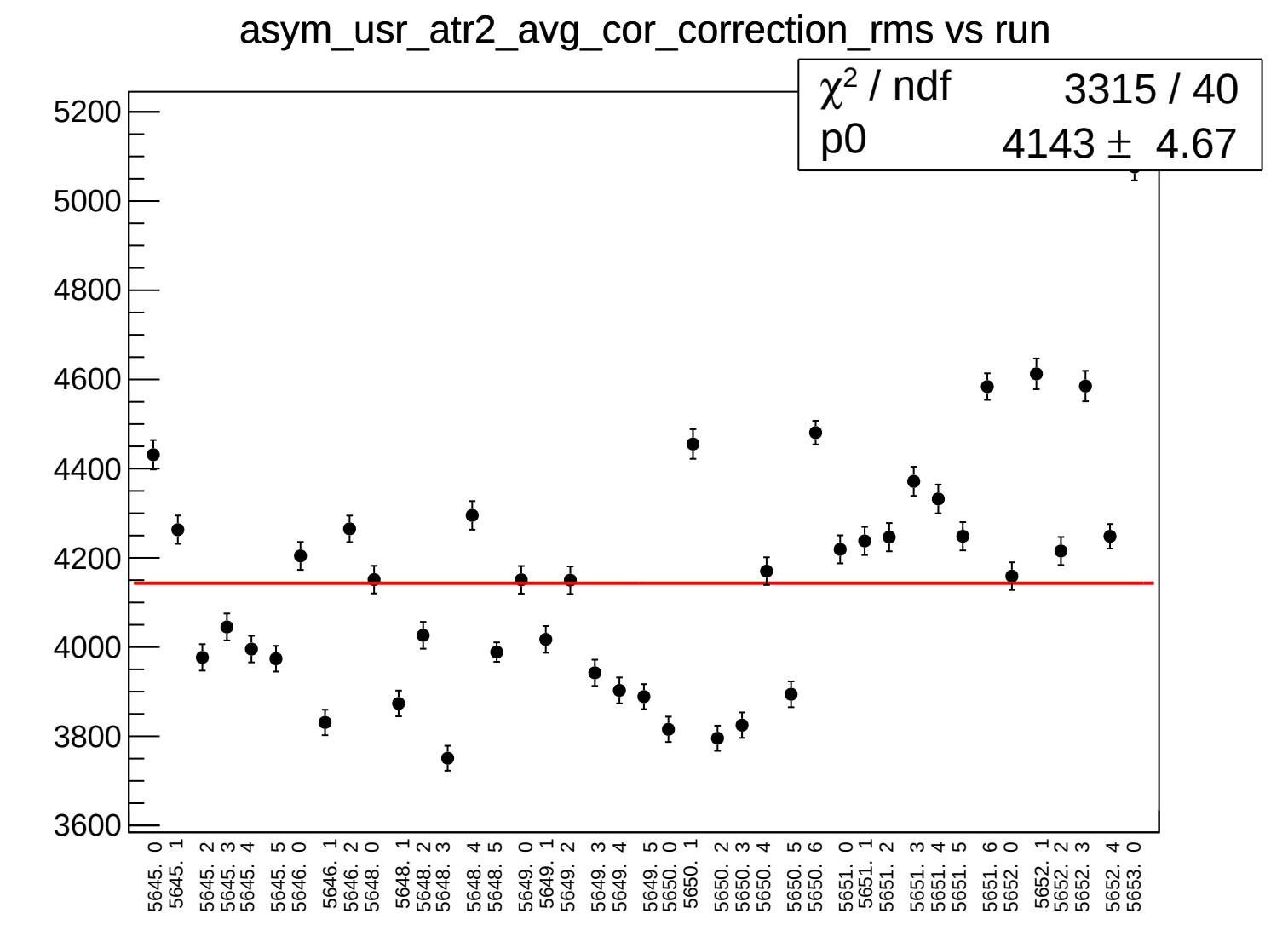
5652. 2
5652. 3
5652. 4
5653. 0


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 34.21 / 40
p0 −6837 ± 6605
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.54
Std Dev 33.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0289
Std Dev 0.913
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3315 / 40
p0 4143 ± 4.67
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
5652. 0
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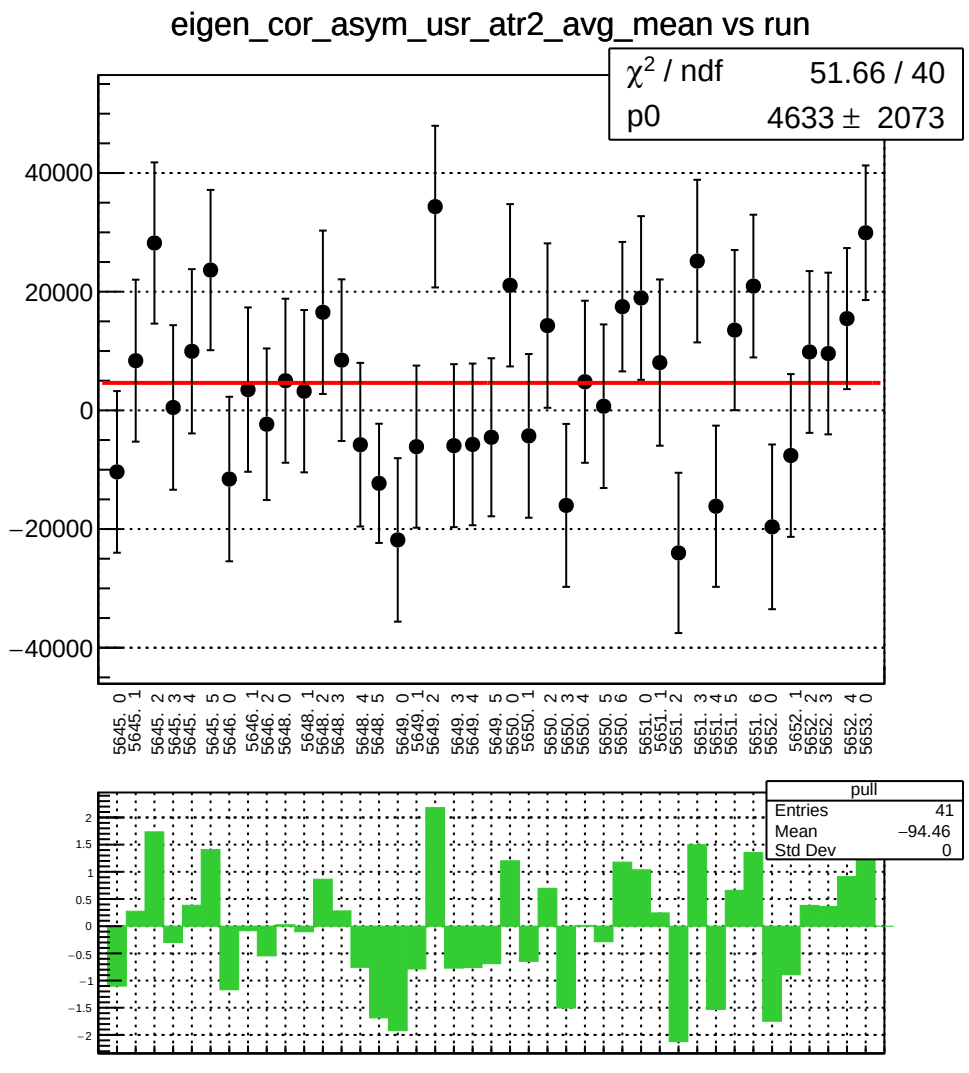
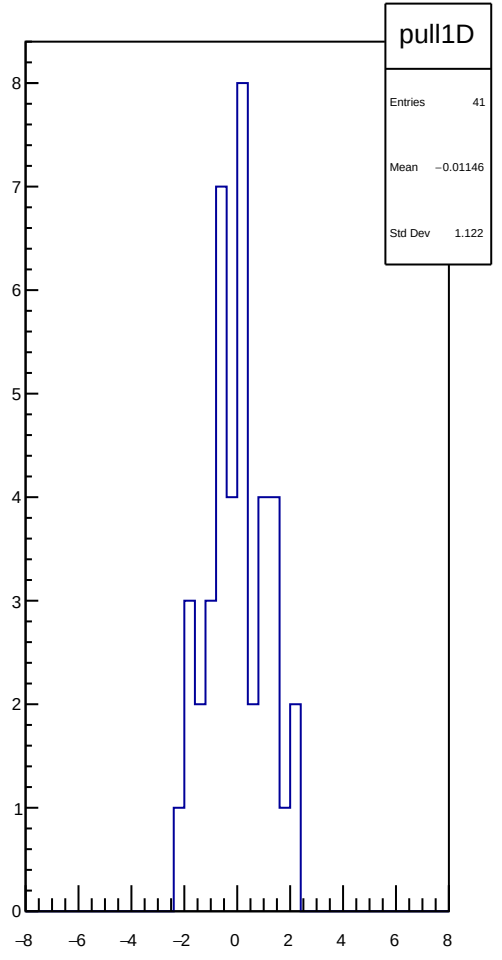
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.66 / 40
p0 4633 ± 2073
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −94.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01146
Std Dev 1.122
8
7
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−8
−6
−4
−2
0
2
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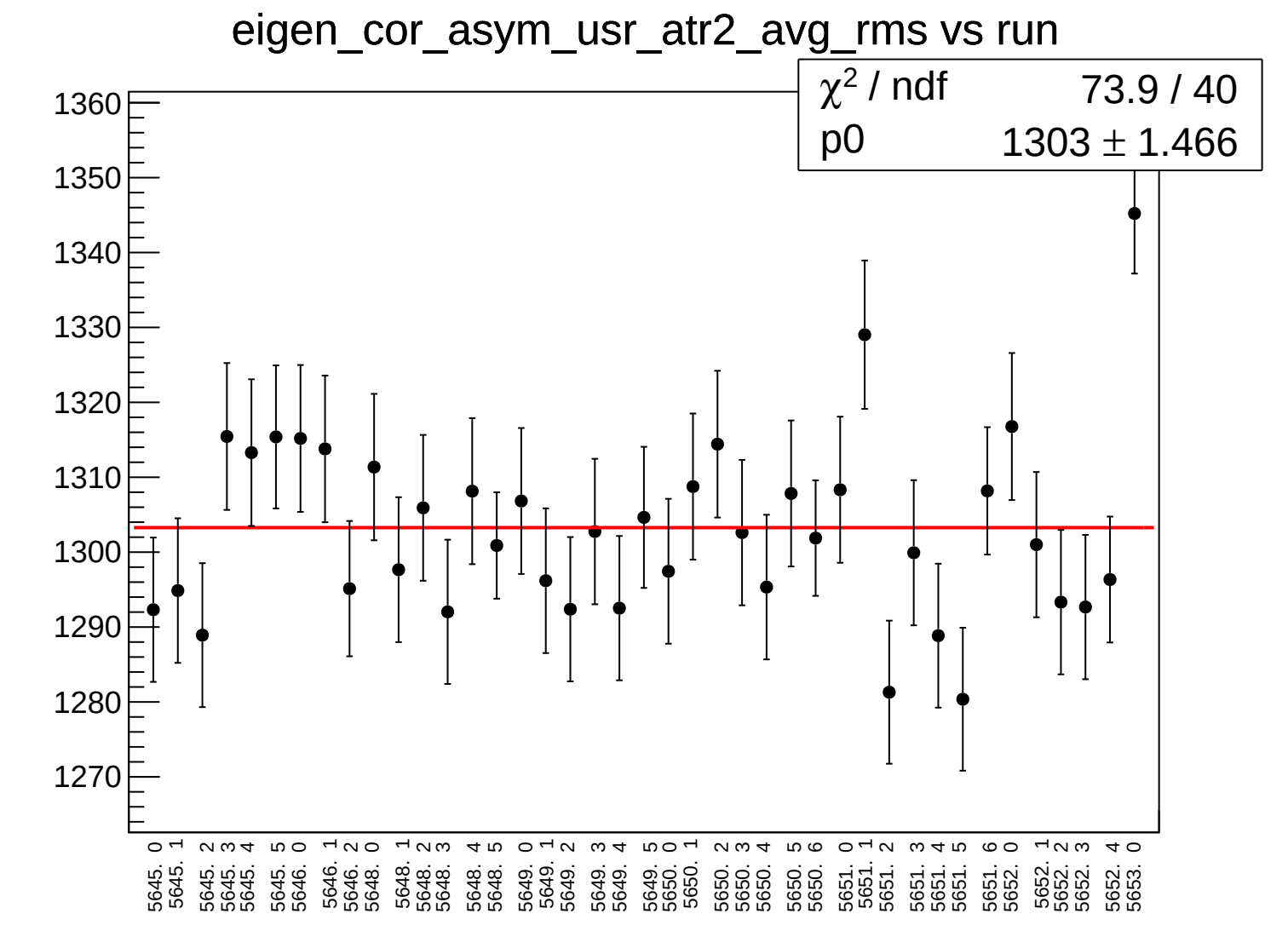
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 73.9 / 40
p0 1303 ± 1.466
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
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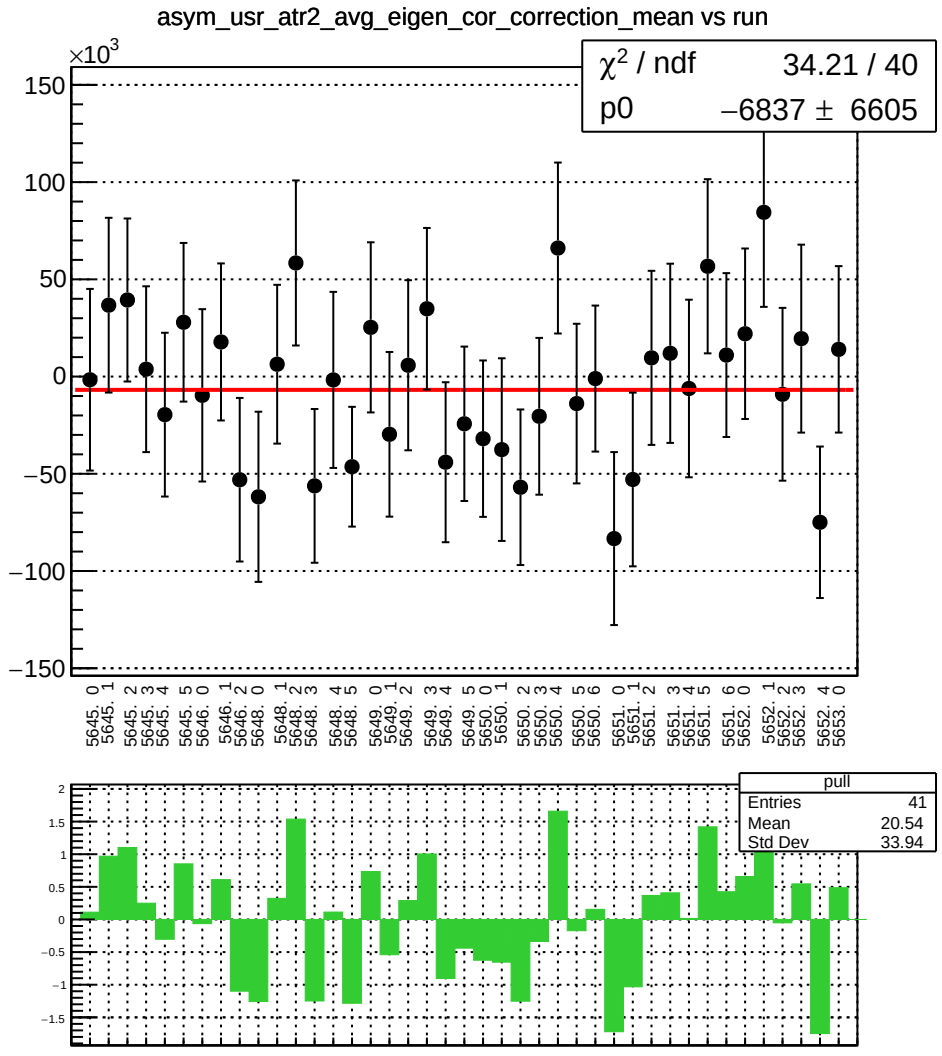
5652. 2
5652. 3
5652. 4
5653. 0


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 34.21 / 40
p0 −6837 ± 6605
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
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5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.54
Std Dev 33.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.0289
Std Dev 0.913
8
7
6
5
4
3
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1
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−4
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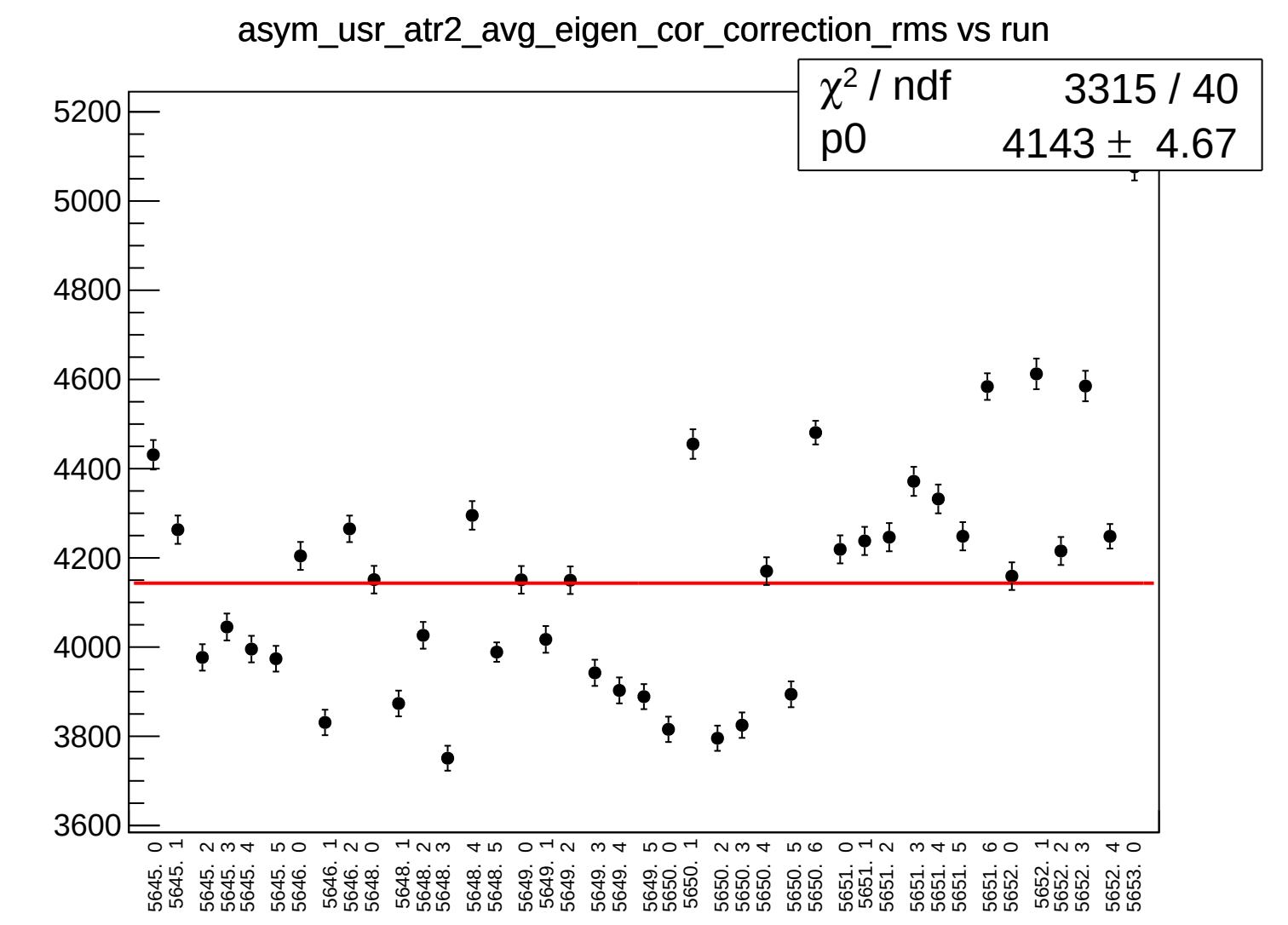
asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3315 / 40
p0 4143 ± 4.67
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
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5652. 2
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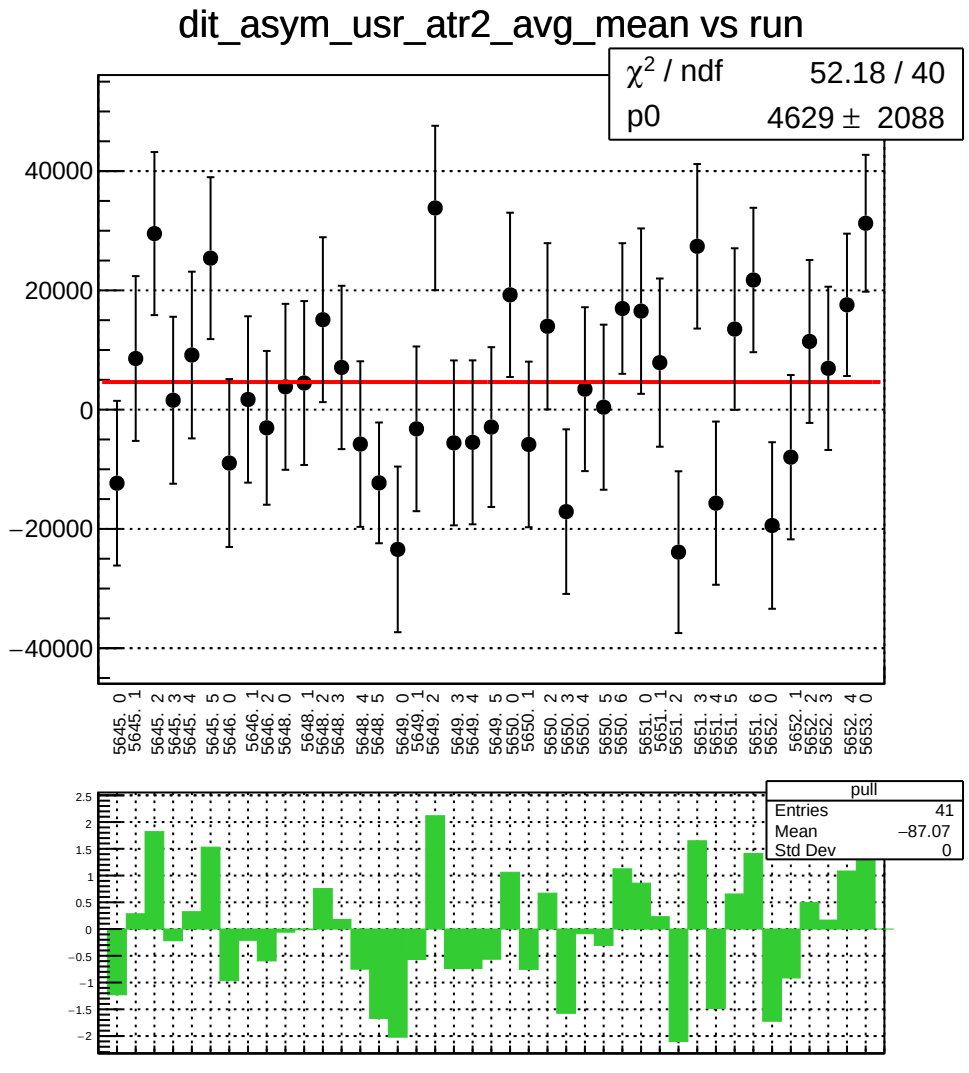
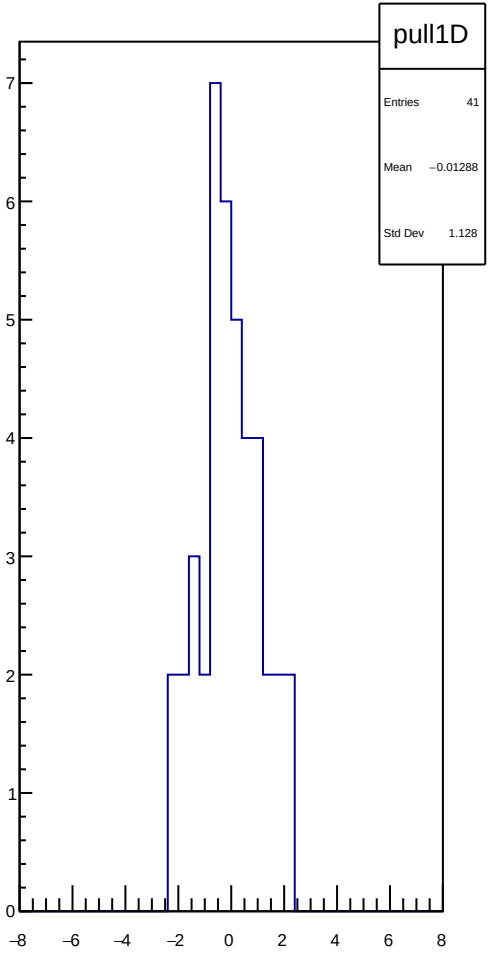
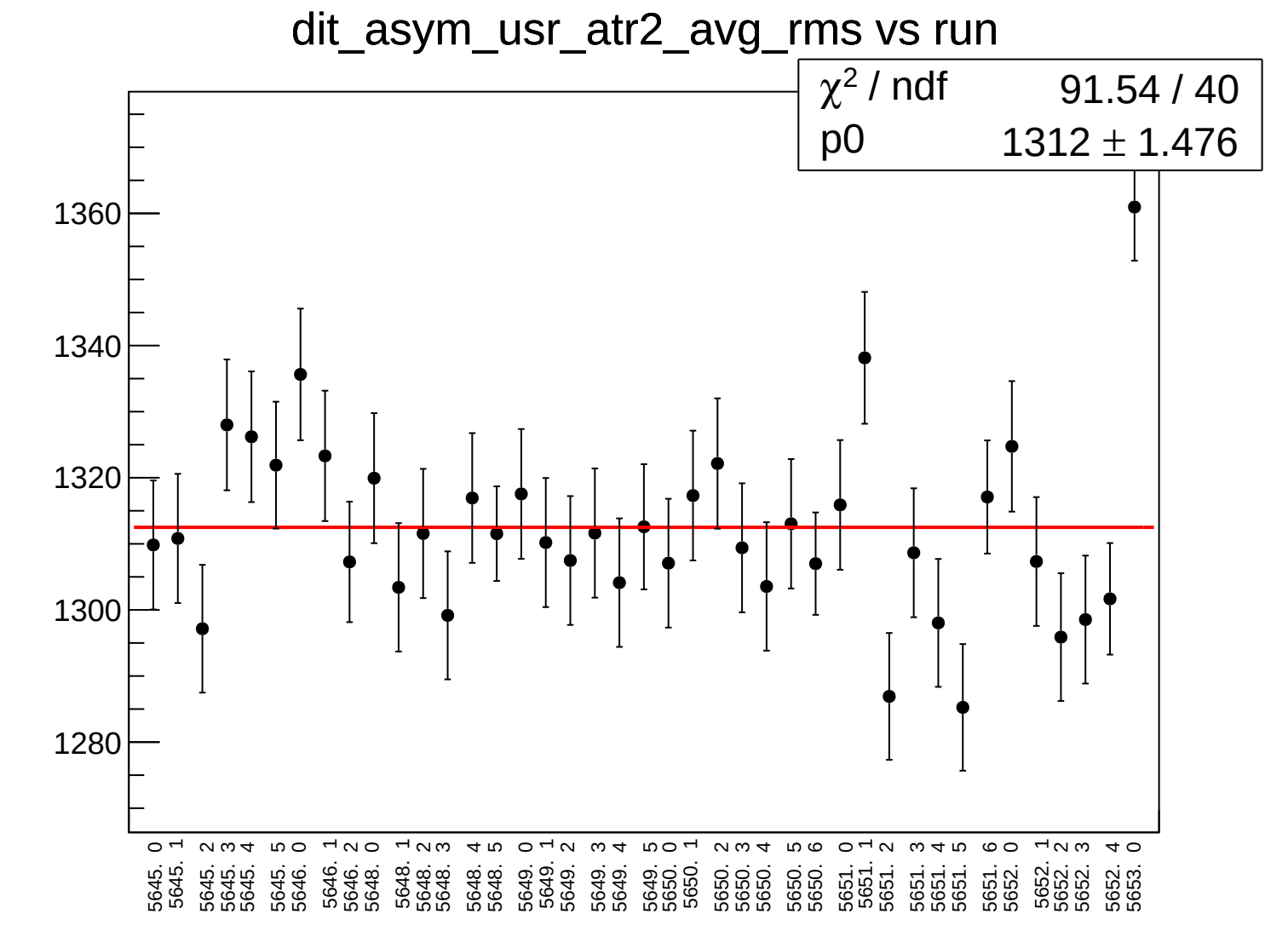
5652. 4
5653. 0


dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 52.18 / 40
p0 4629 ± 2088
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −87.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01288
Std Dev 1.128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 91.54 / 40
p0 1312 ± 1.476
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
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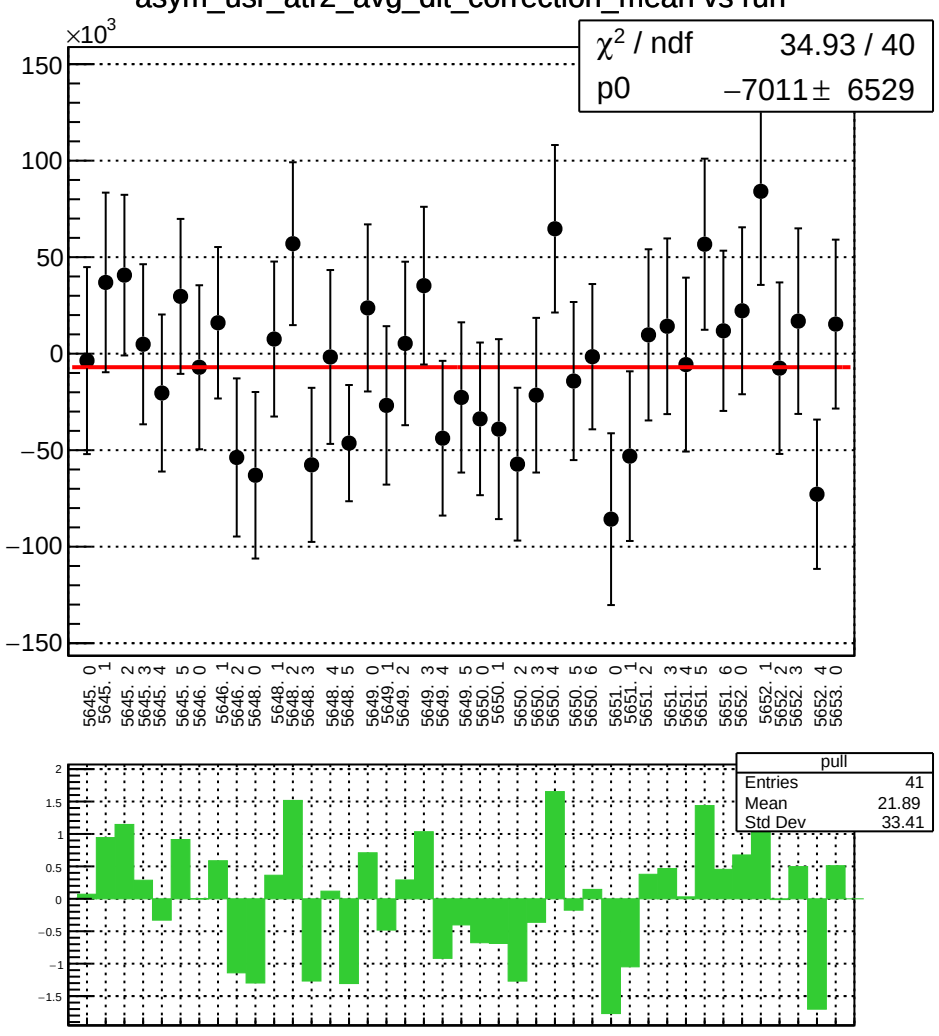
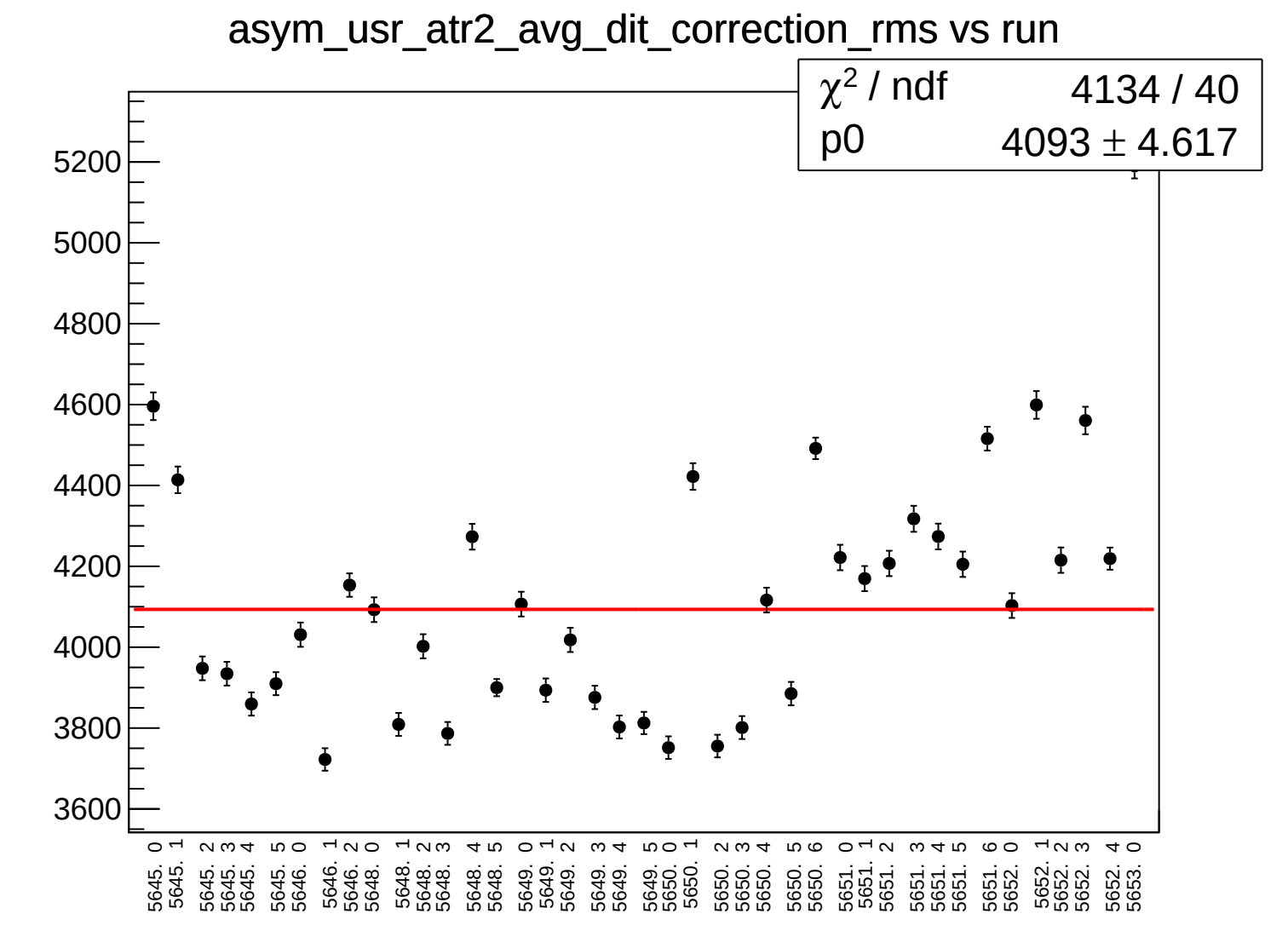
5652. 2
5652. 3
5652. 4
5653. 0


asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 34.93 / 40
p0 −7011 ± 6529
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.89
Std Dev 33.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.03074
Std Dev 0.9225
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 4134 / 40
p0 4093 ± 4.617
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
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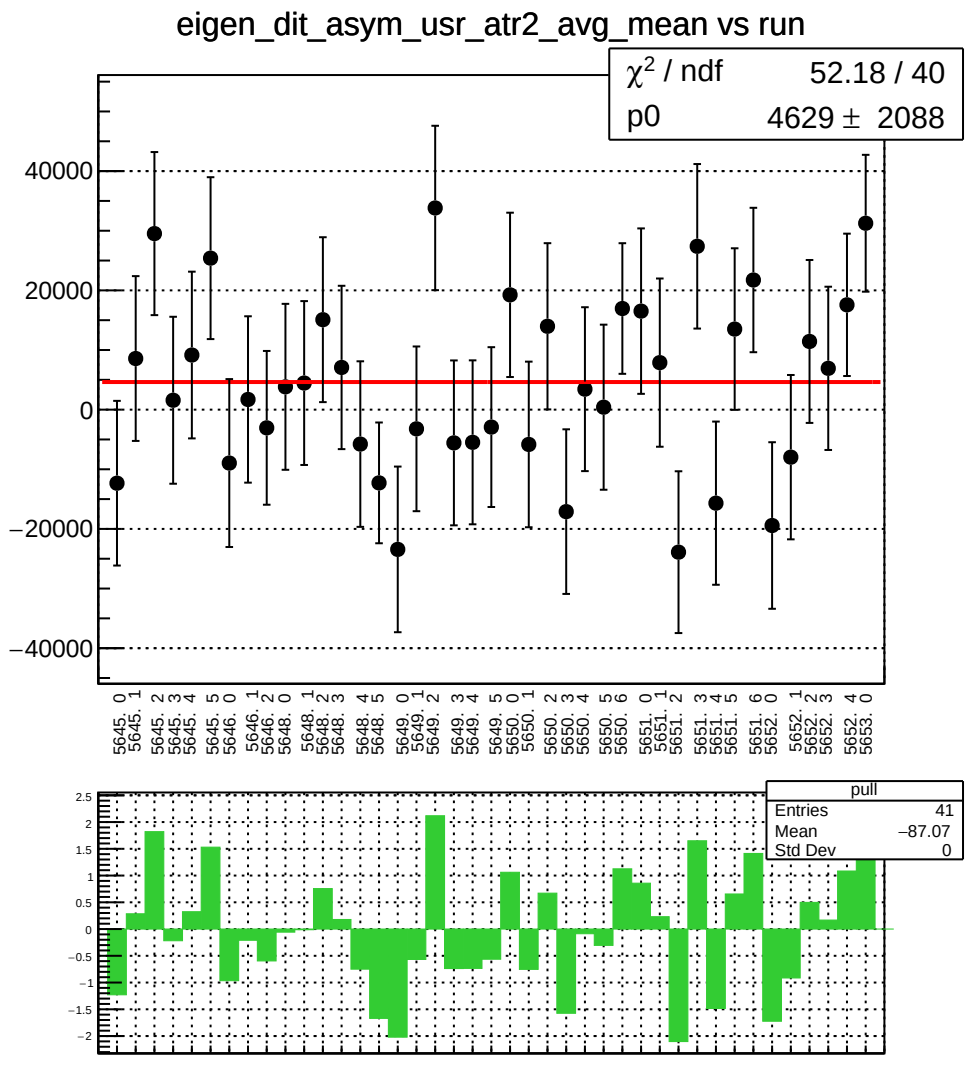
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 52.18 / 40
p0 4629 ± 2088
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
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5649. 2
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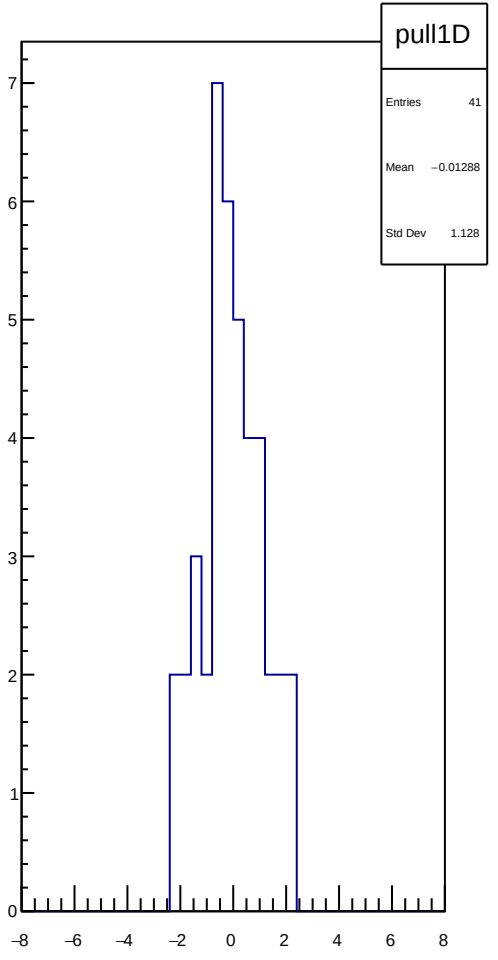
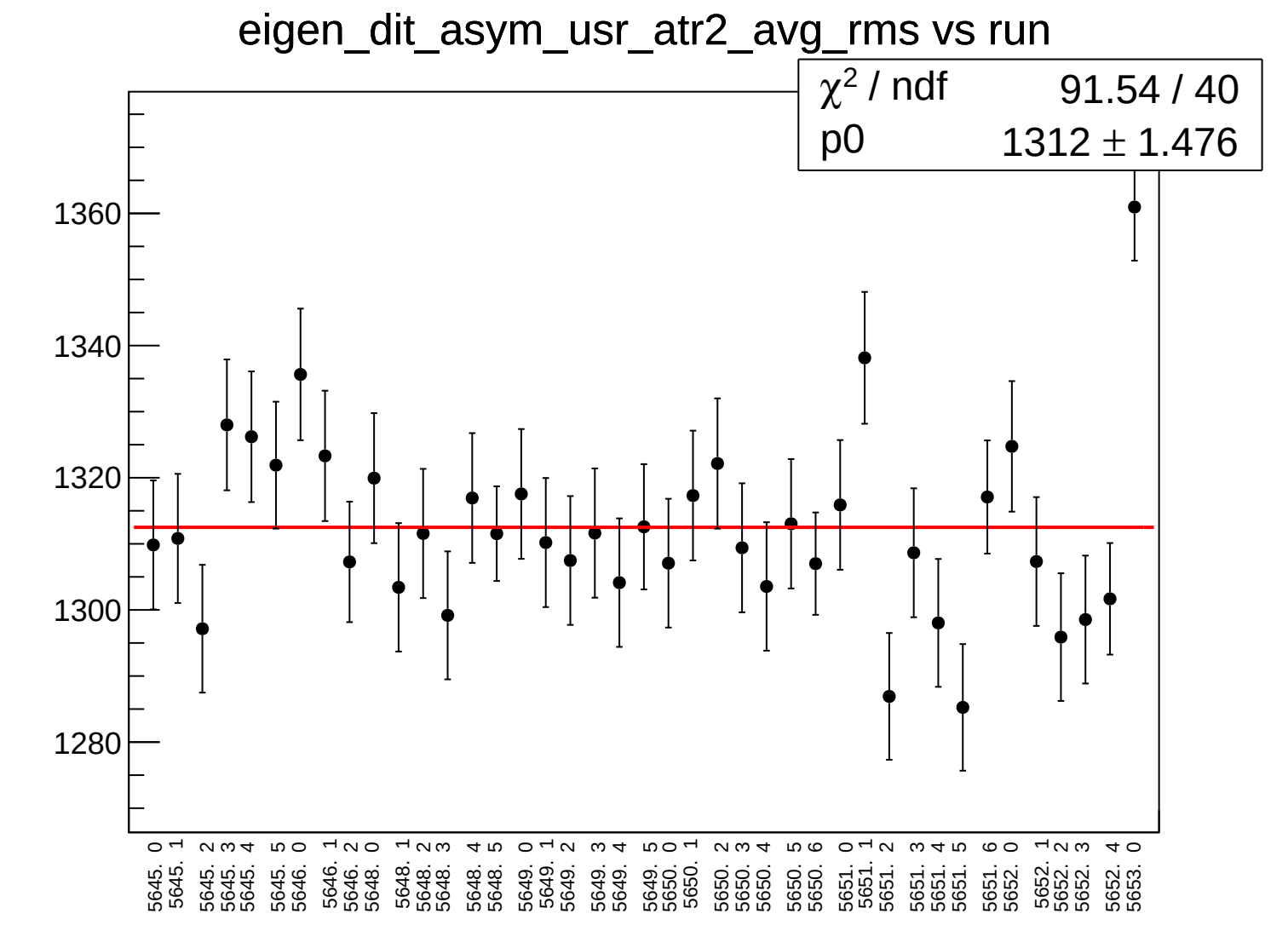
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −87.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01288
Std Dev 1.128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 91.54 / 40
p0 1312 ± 1.476
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
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5652. 2
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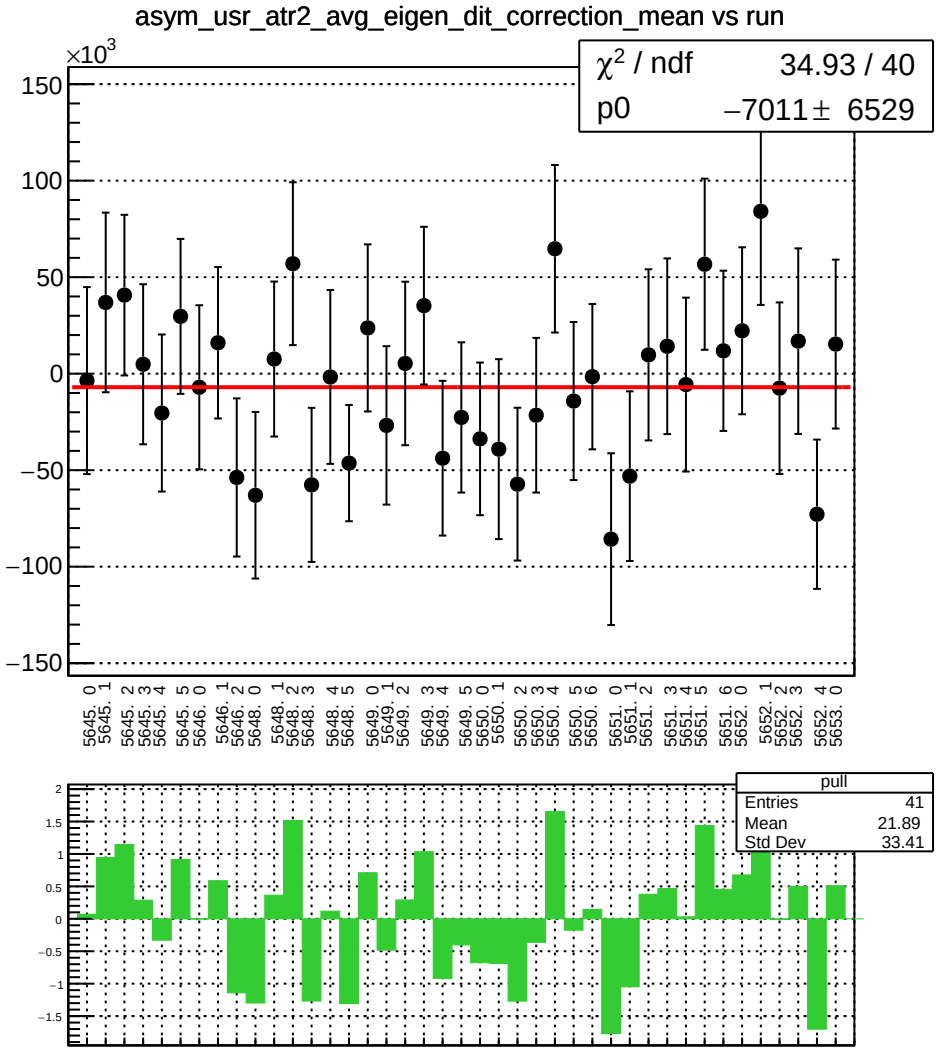
5653. 0


asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 34.93 / 40
p0 −7011 ± 6529
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
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5650. 6
5651. 0
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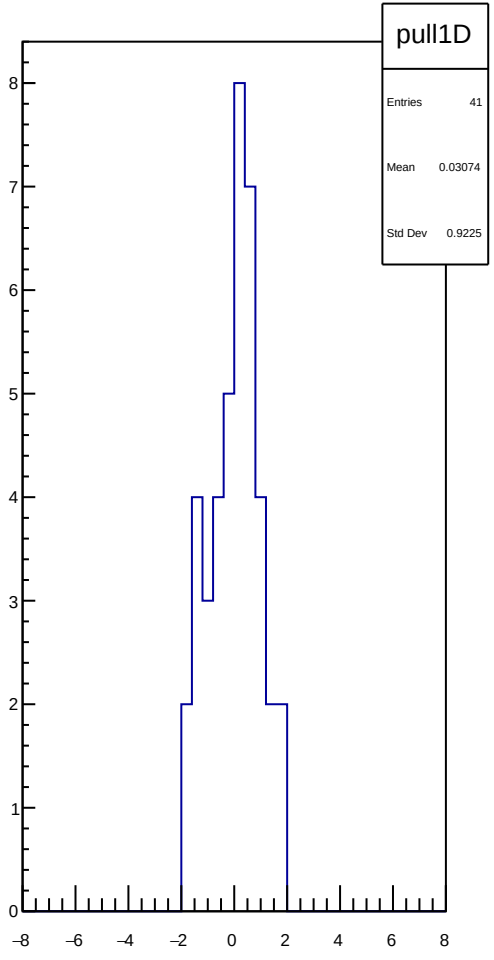
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.89
Std Dev 33.41
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.03074
Std Dev 0.9225
8
7
6
5
4
3
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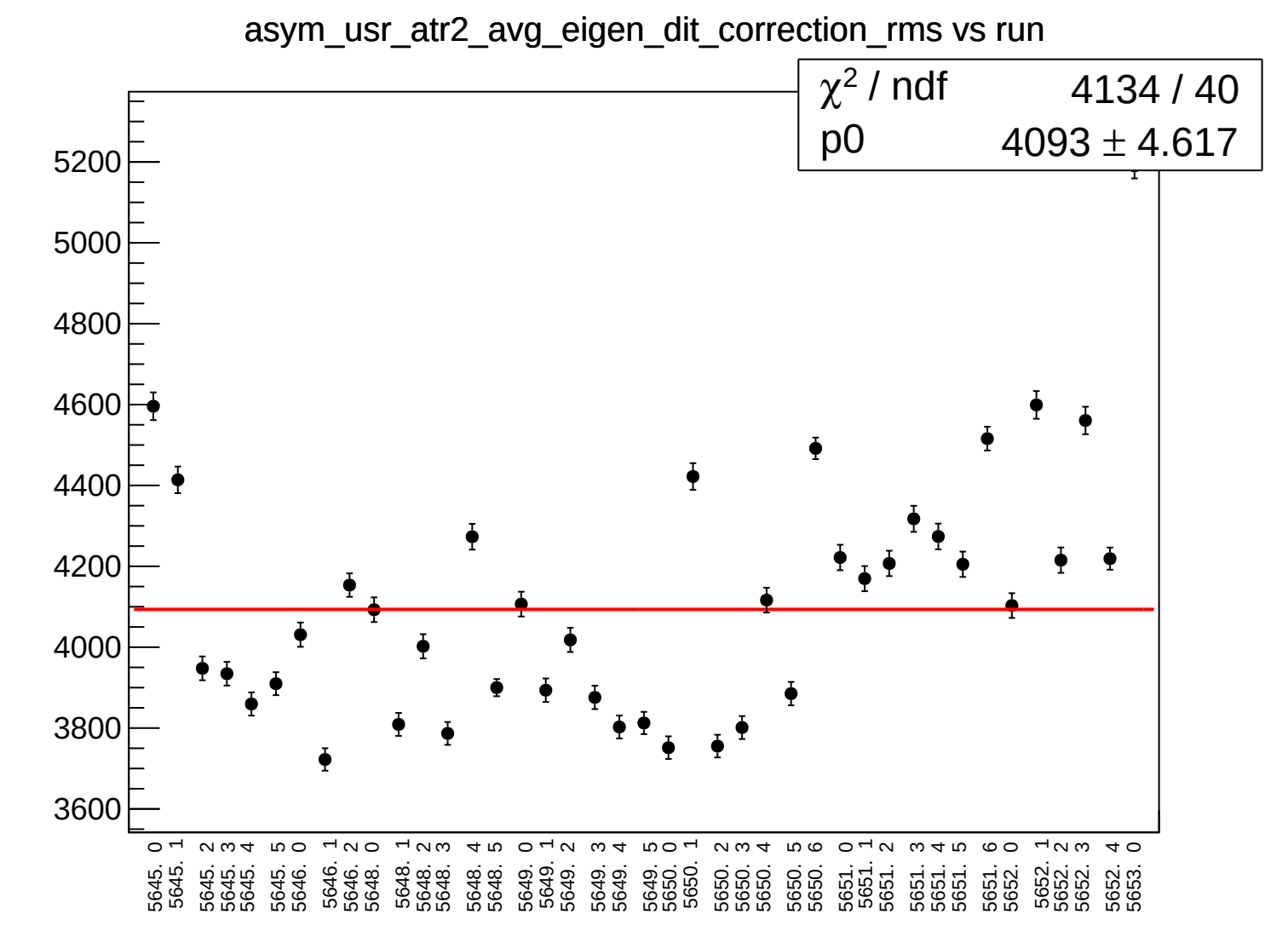
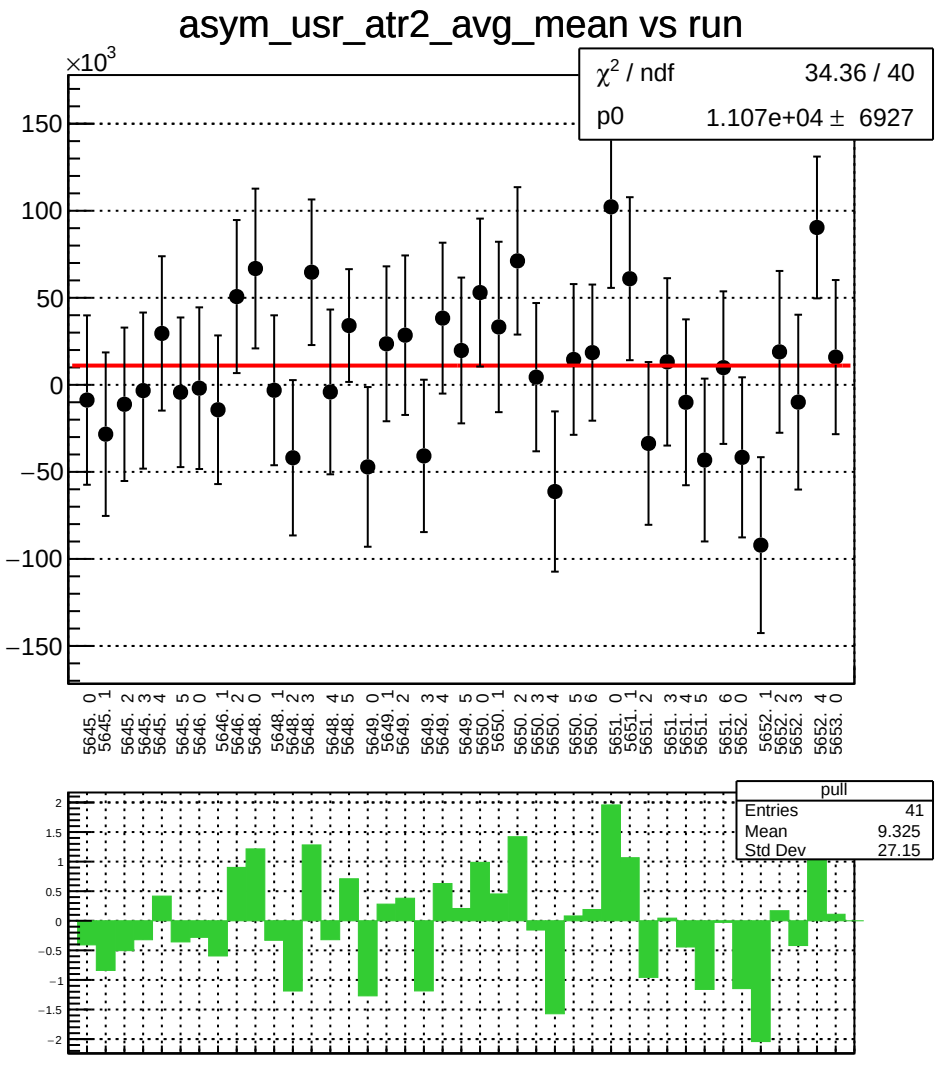
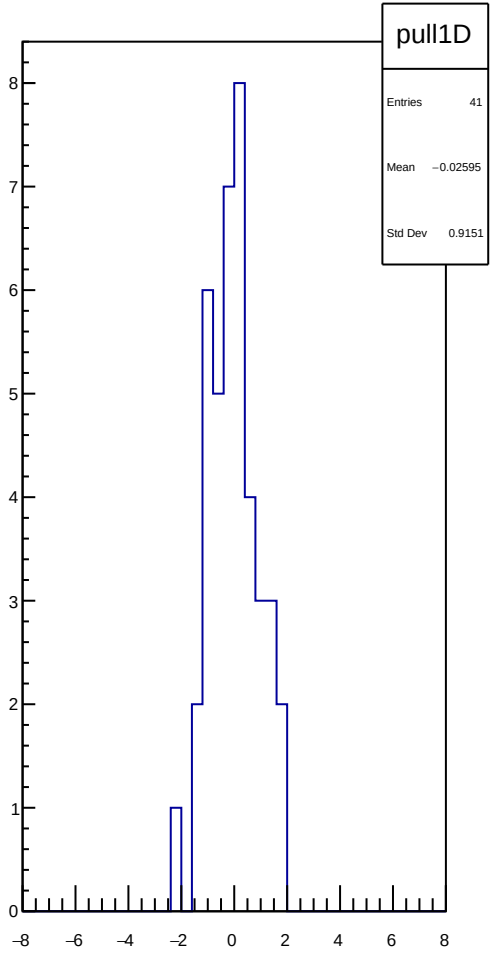
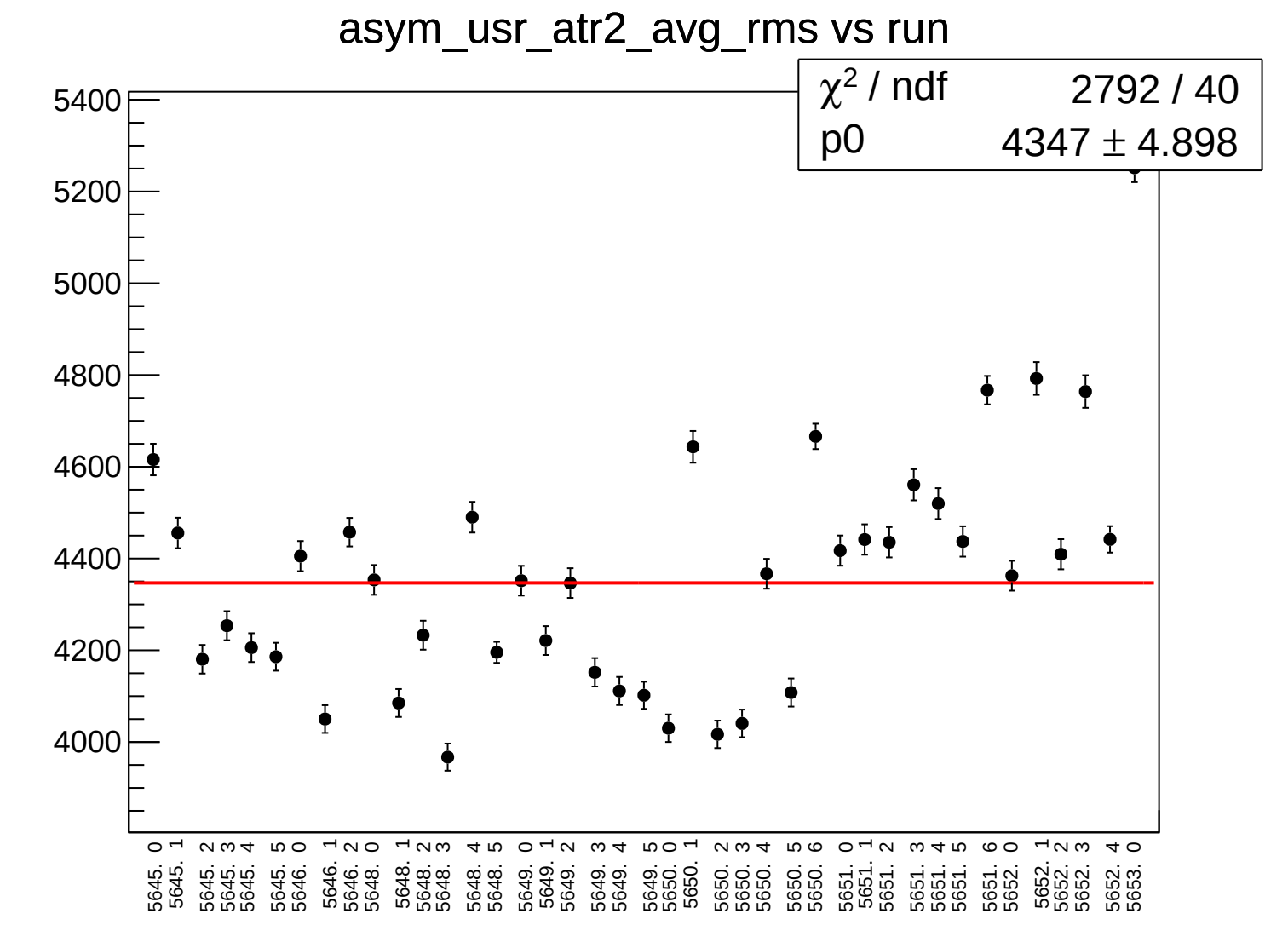
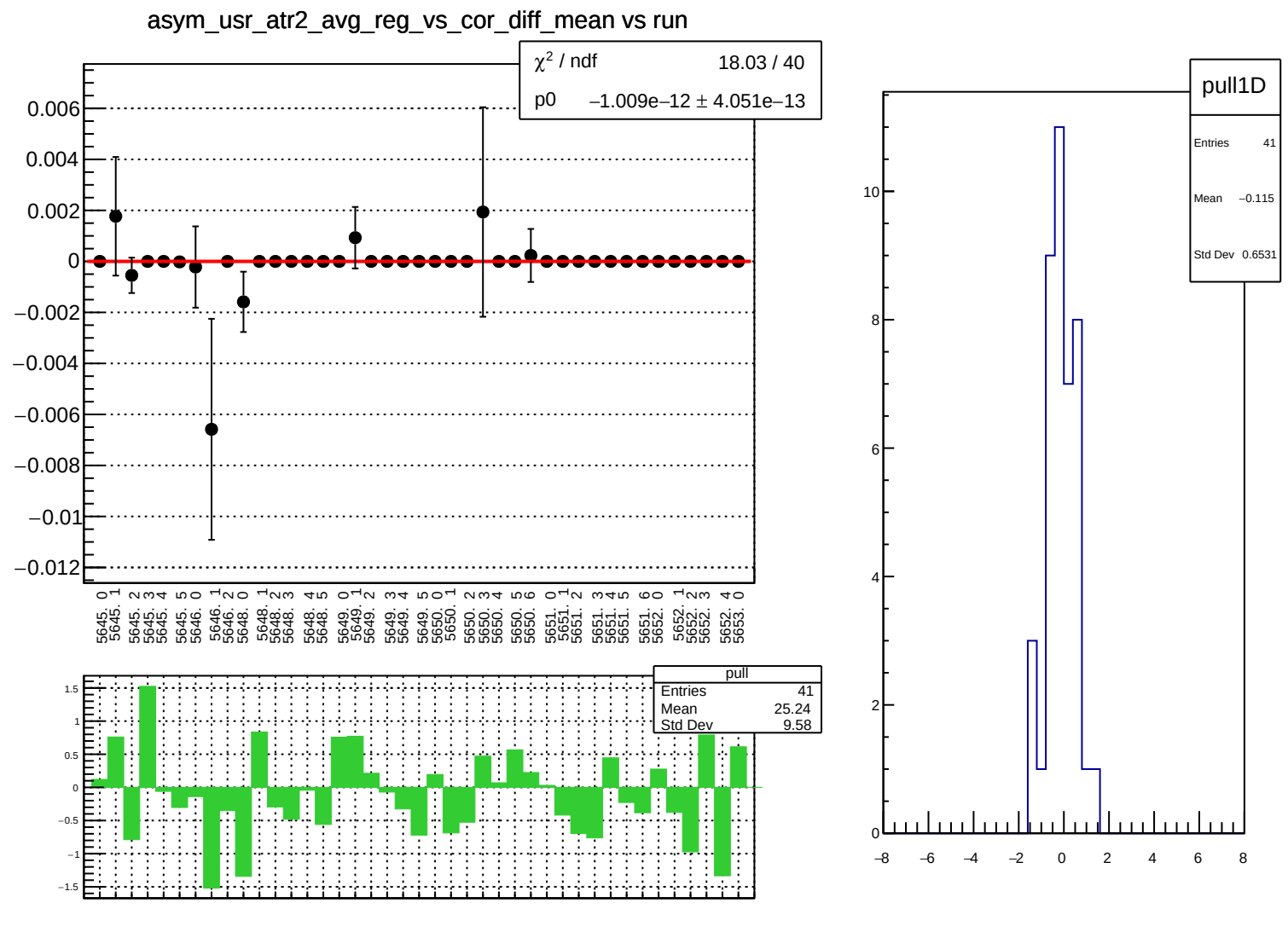
1
0
−8
−6
−4
−2
0
2
4
6
8

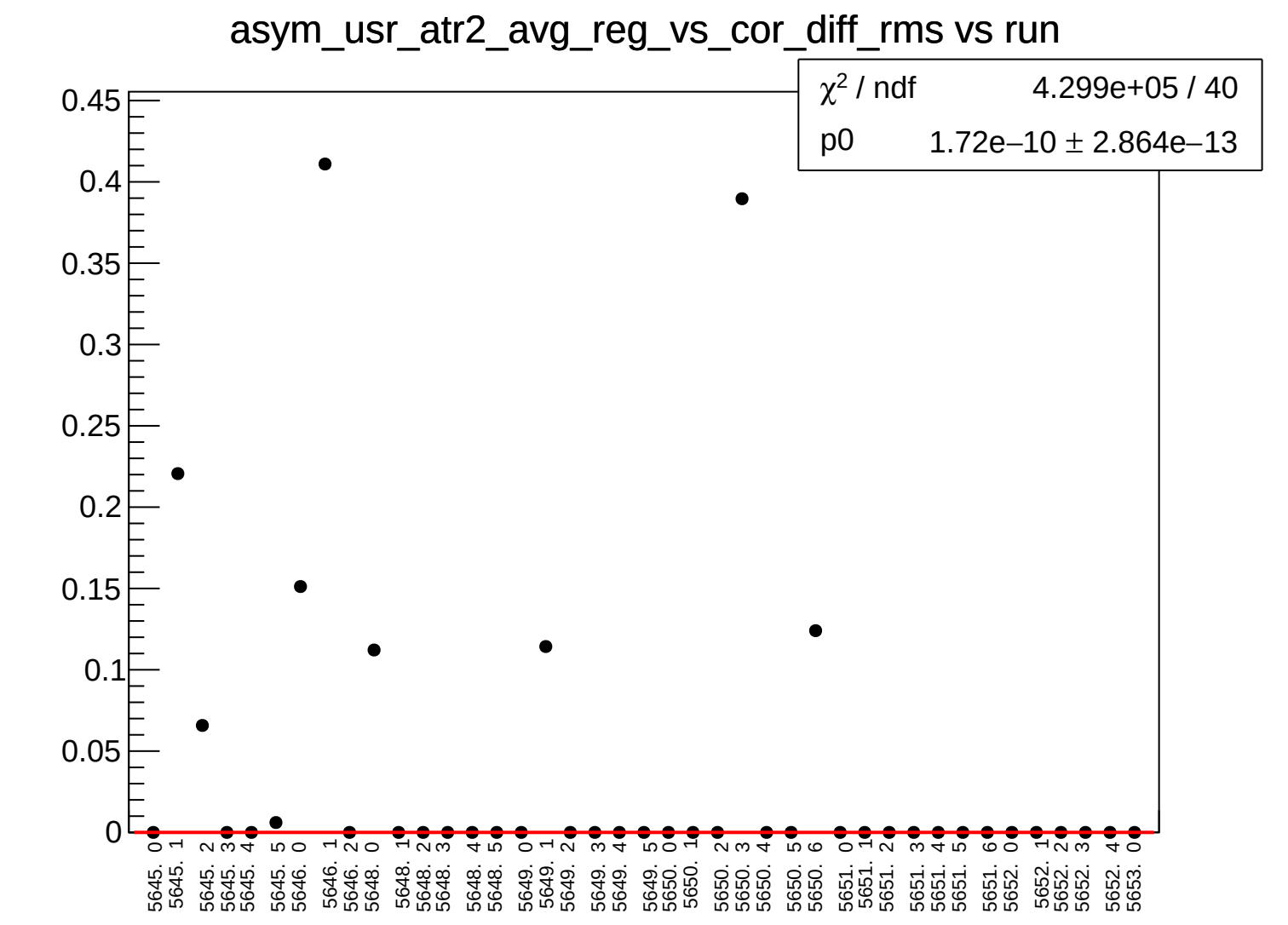

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4134 / 40
p0 4093 ± 4.617
5200
5000
4800
4600
4400
4200
4000
3800
3600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

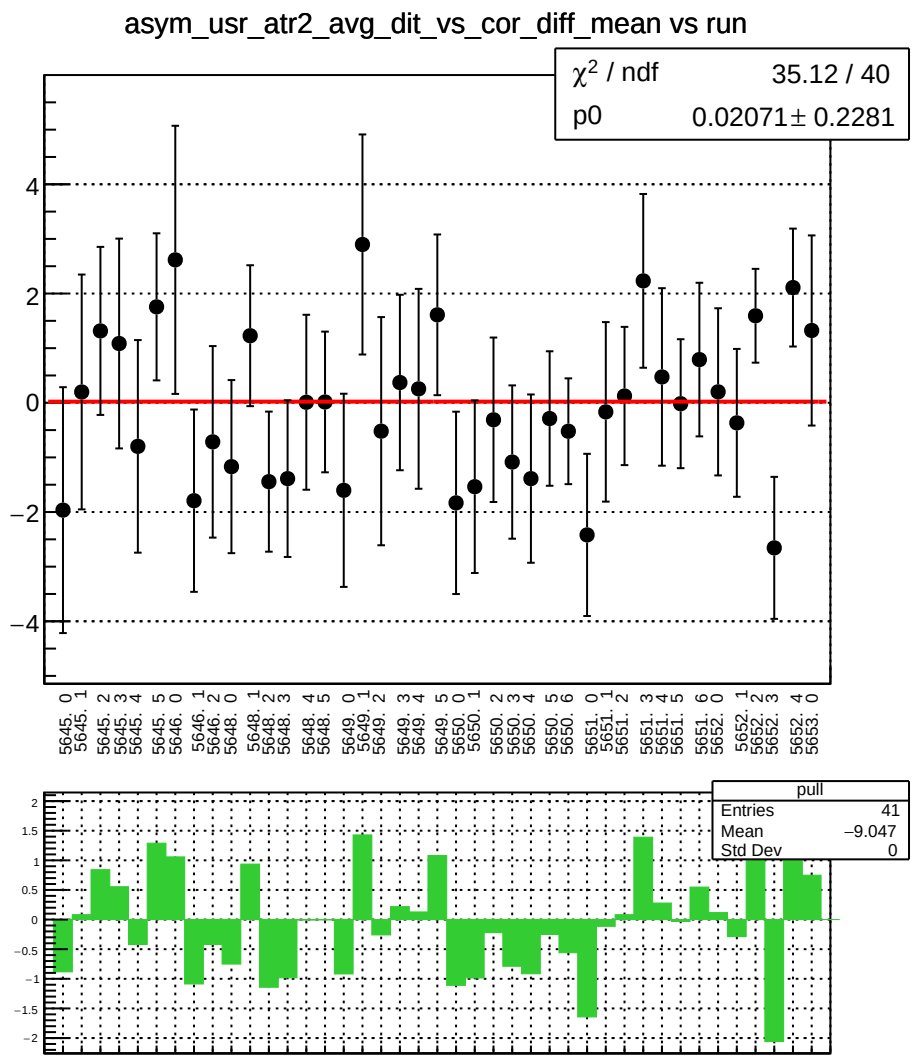

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 34.36 / 40
p0 1.107e+04 ± 6927
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.325
Std Dev 27.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

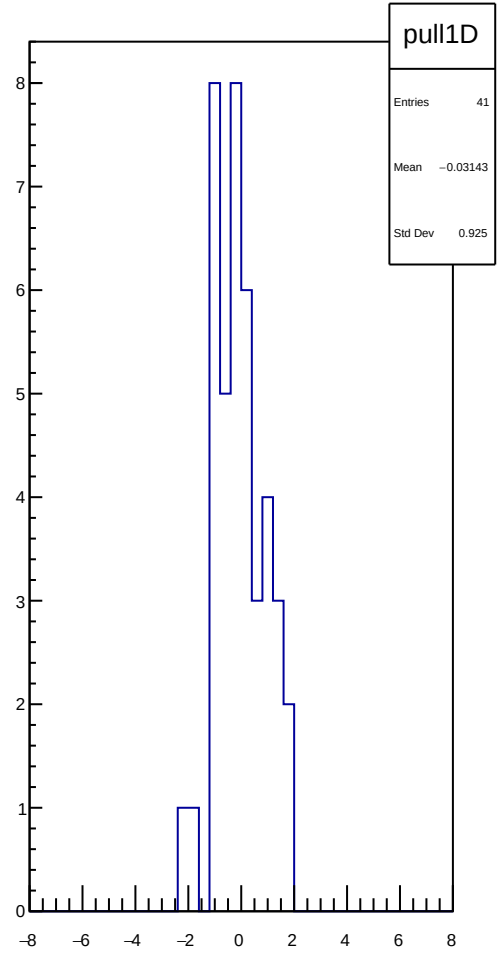

pull1D
Entries 41
Mean −0.02595
Std Dev 0.9151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

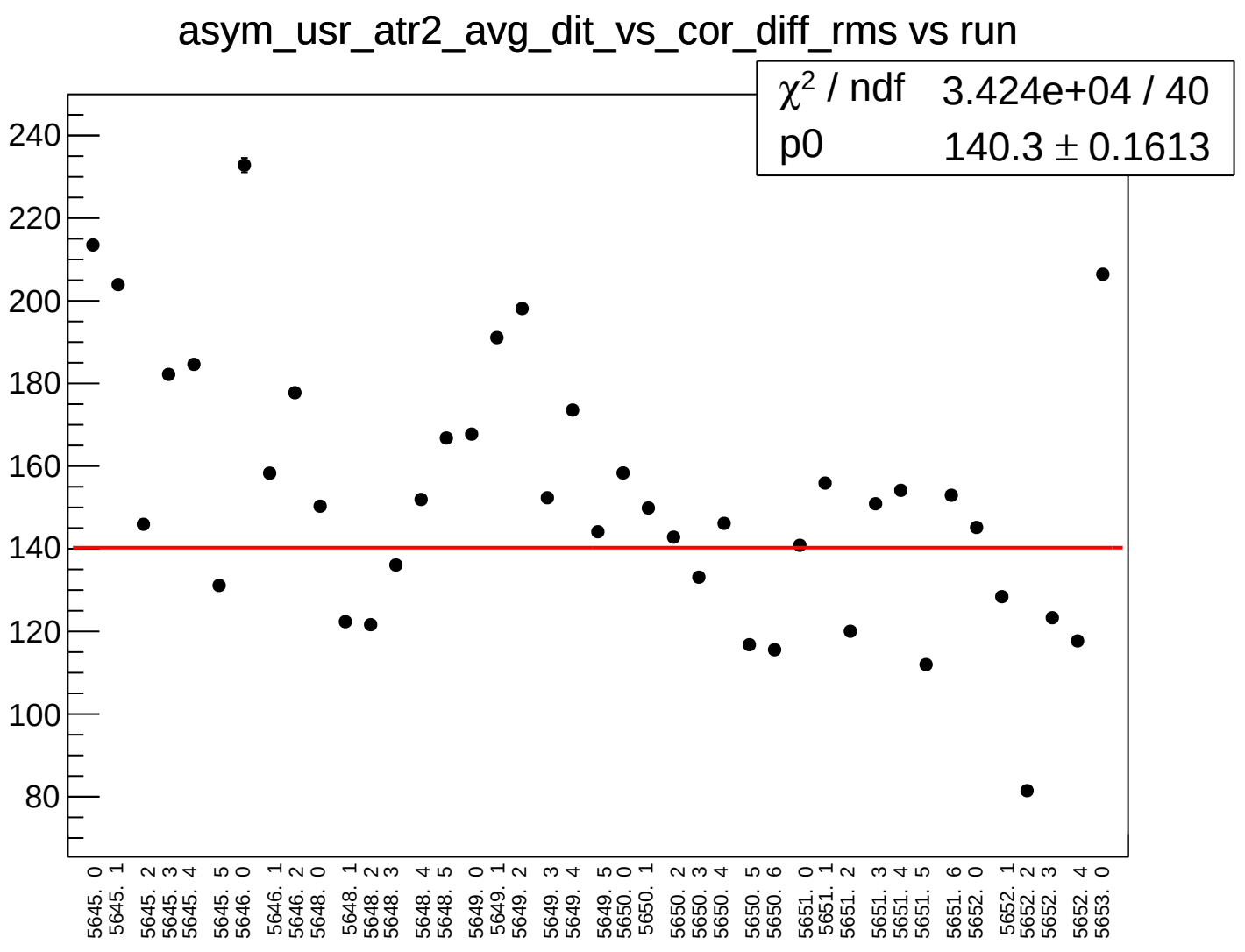

asym_usr_atr2_avg_rms vs run
χ² / ndf 2792 / 40
p0 4347 ± 4.898
5400
5200
5000
4800
4600
4400
4200
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

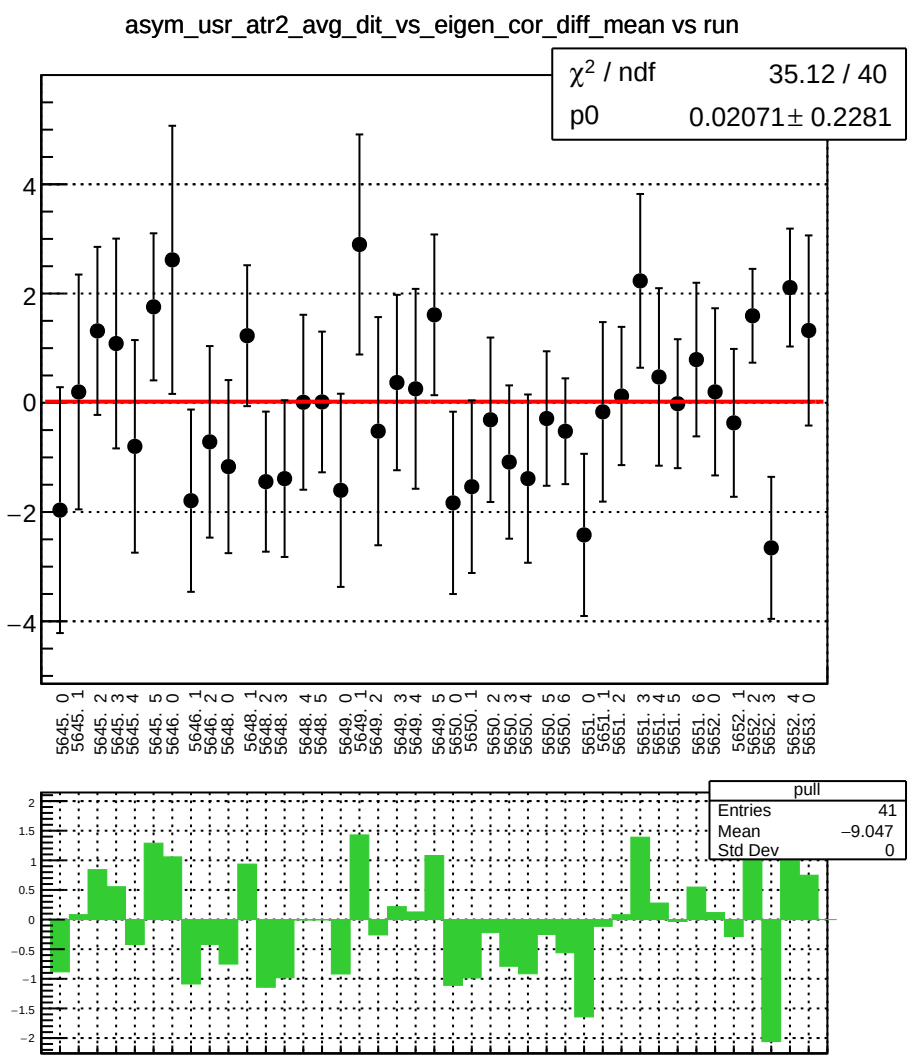

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 18.03 / 40
p0 −1.009e−12 ± 4.051e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 25.24
Std Dev 9.58
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.115
Std Dev 0.6531
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

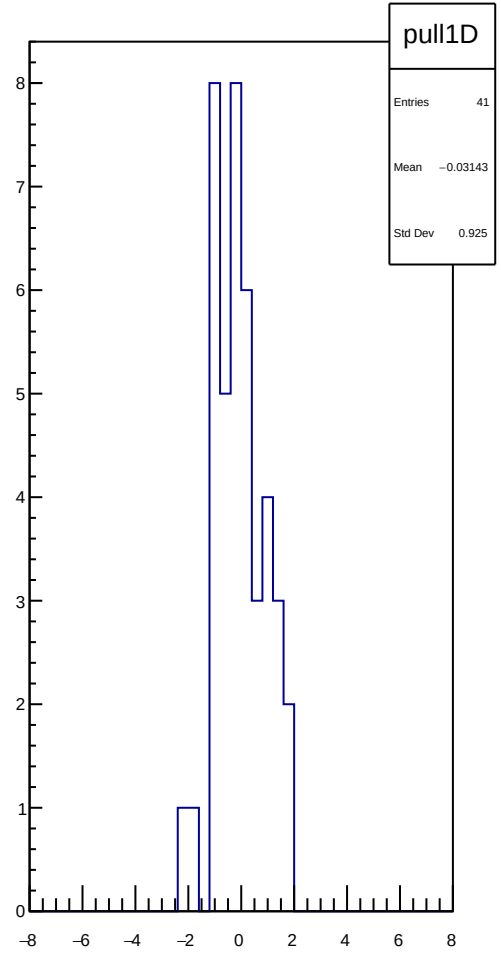

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.299e+05 / 40
p0 1.72e−10 ± 2.864e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

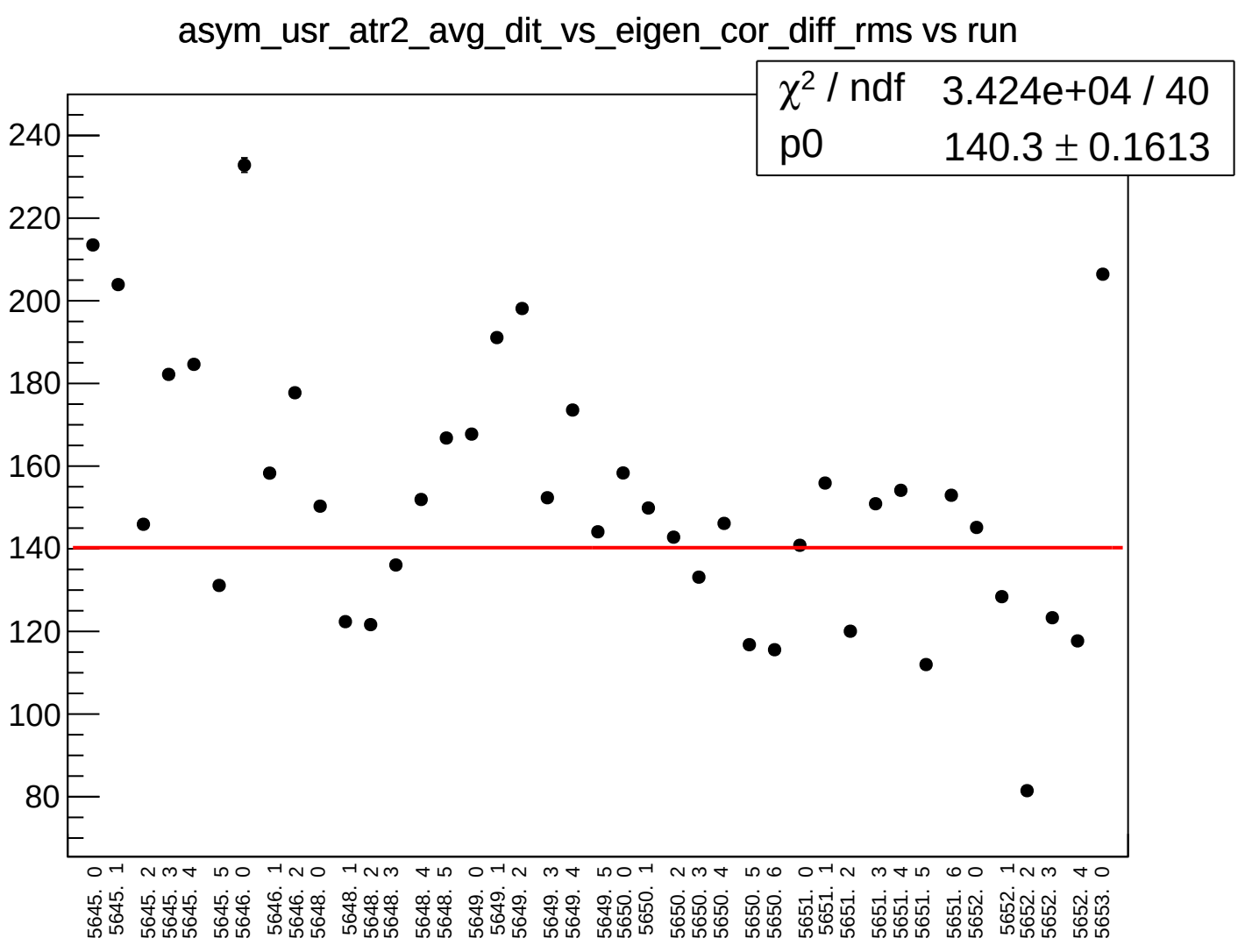

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.12 / 40
p0 0.02071± 0.2281
pull
Entries 41
Mean −9.047
Std Dev 0

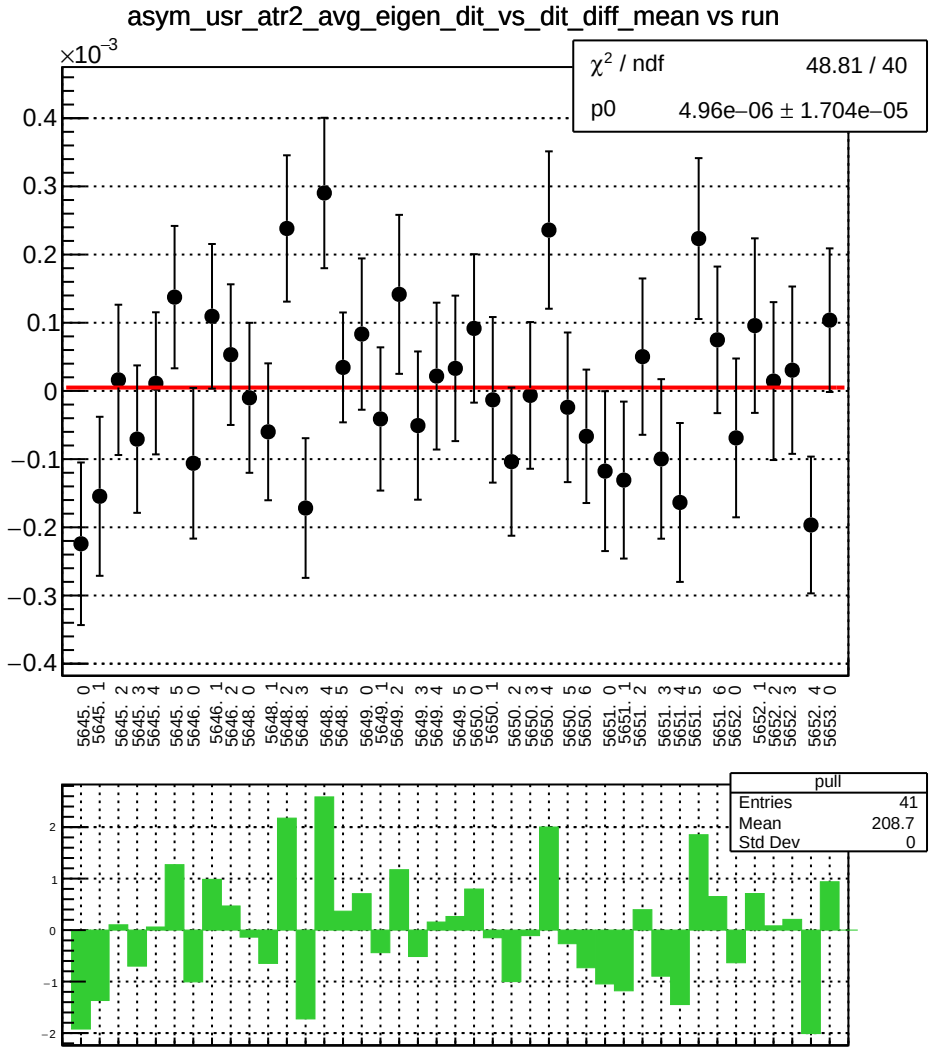

pull1D
Entries 41
Mean −0.03143
Std Dev 0.925

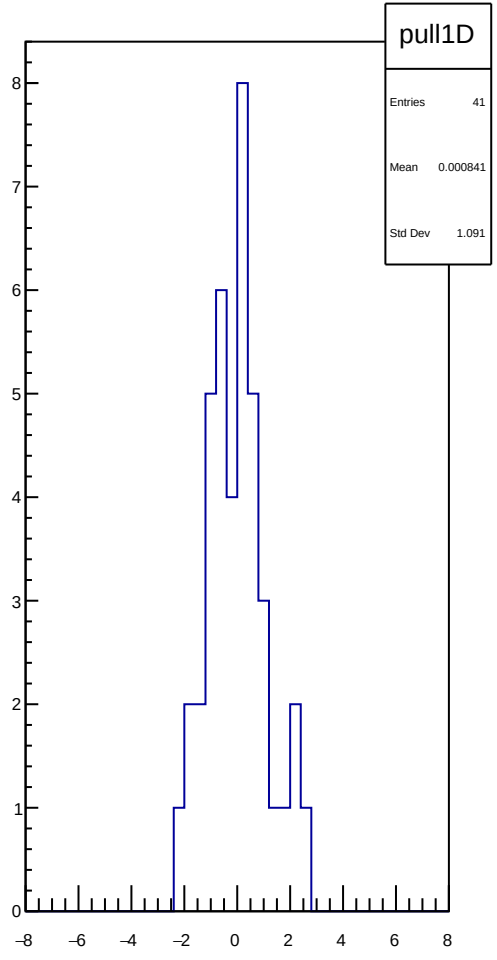

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.424e+04 / 40
p0 140.3 ± 0.1613
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

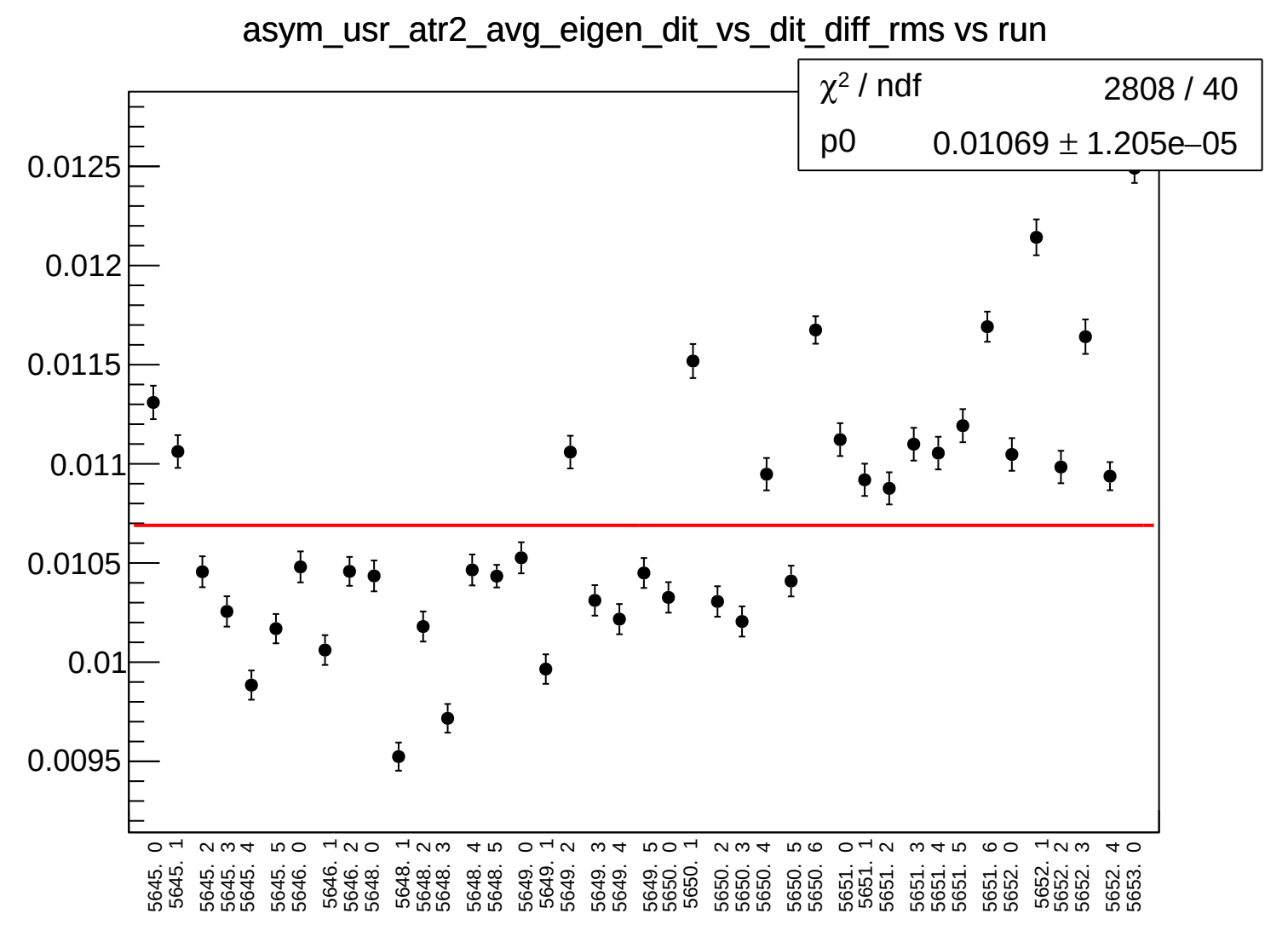

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.12 / 40
p0 0.02071± 0.2281
pull
Entries 41
Mean −9.047
Std Dev 0

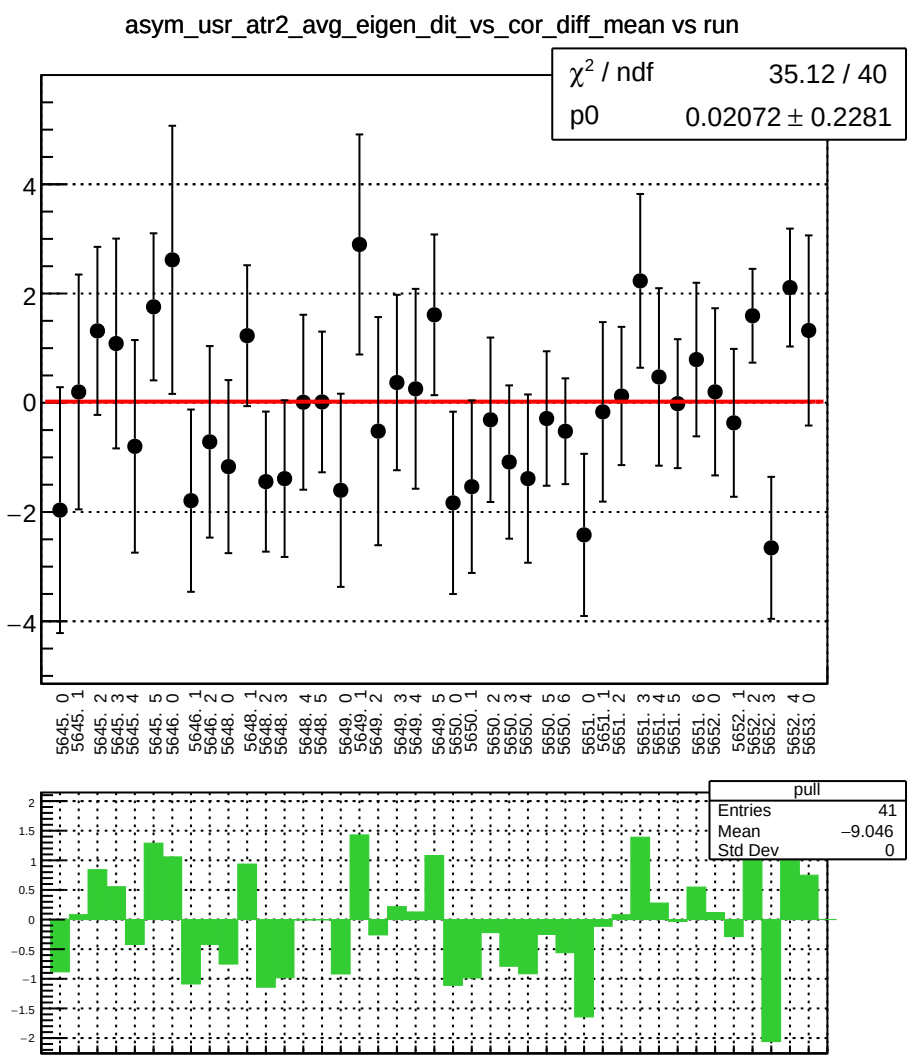

pull1D
Entries 41
Mean −0.03143
Std Dev 0.925

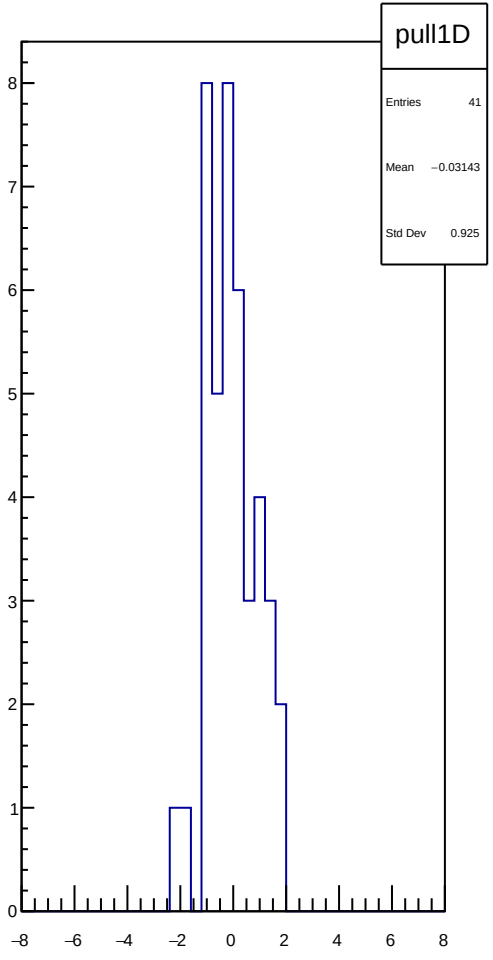

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.424e+04 / 40
p0 140.3 ± 0.1613
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

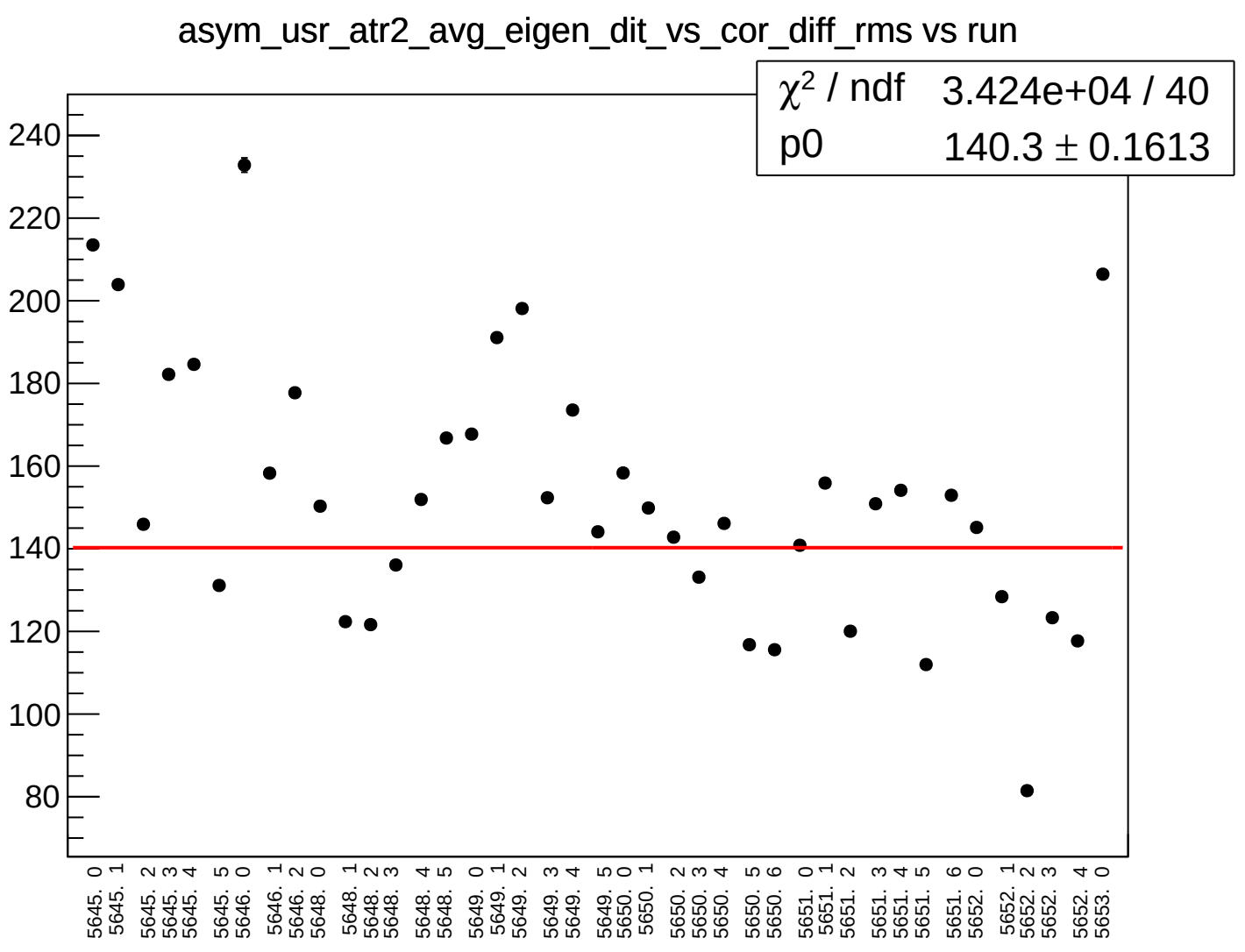

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.81 / 40
p0 4.96e−06 ± 1.704e−05
pull
Entries 41
Mean 208.7
Std Dev 0

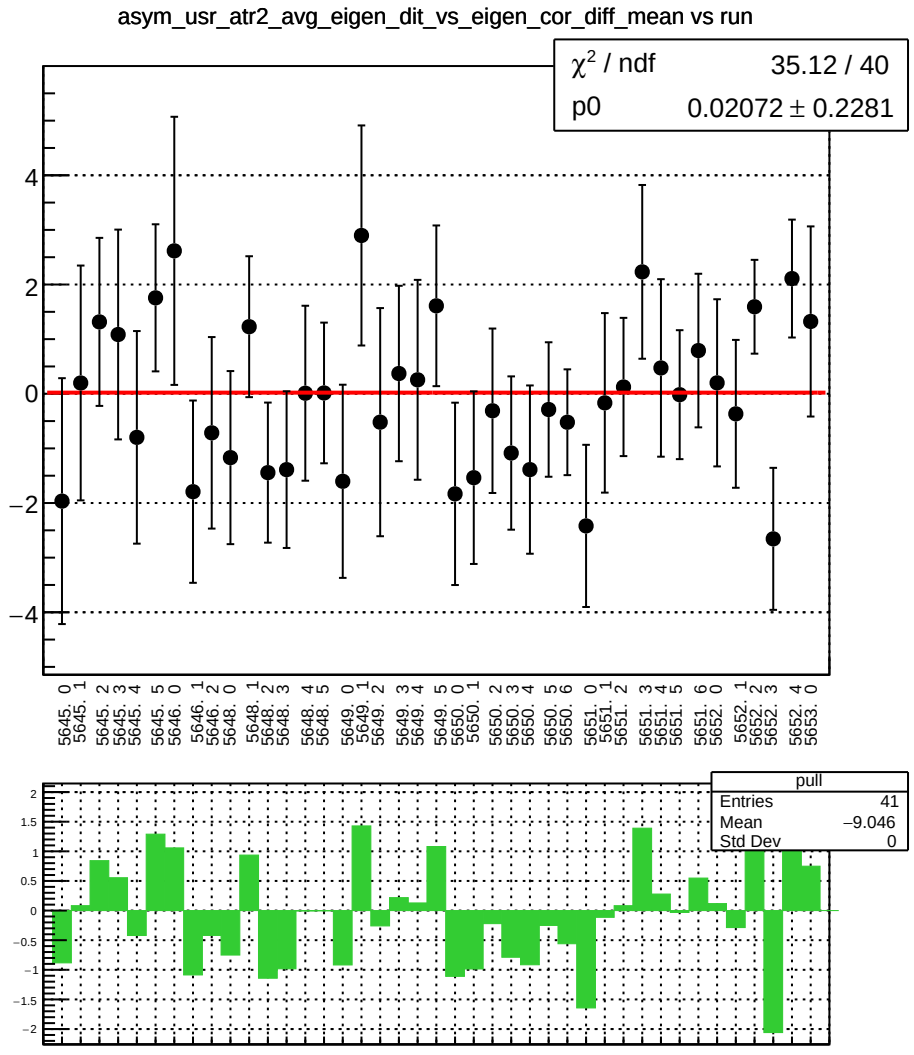

pull1D
Entries 41
Mean 0.000841
Std Dev 1.091

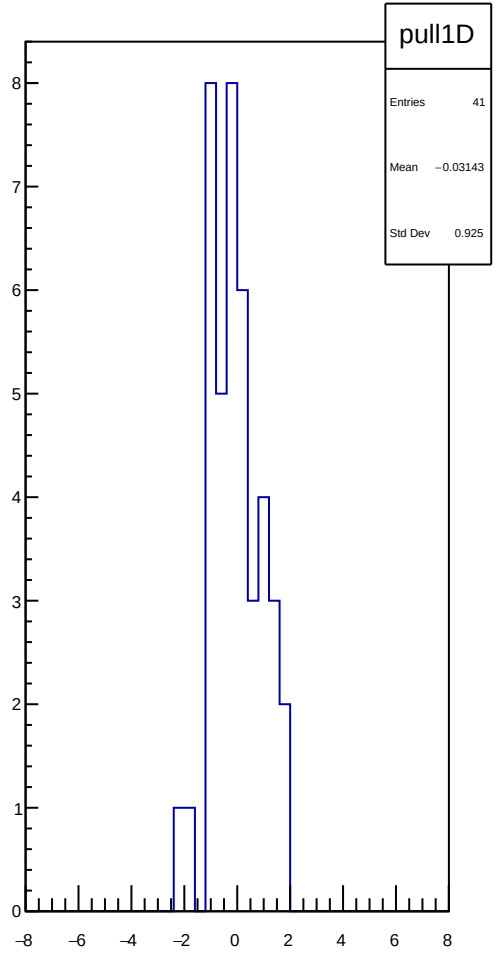

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2808 / 40
p0 0.01069 ± 1.205e−05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

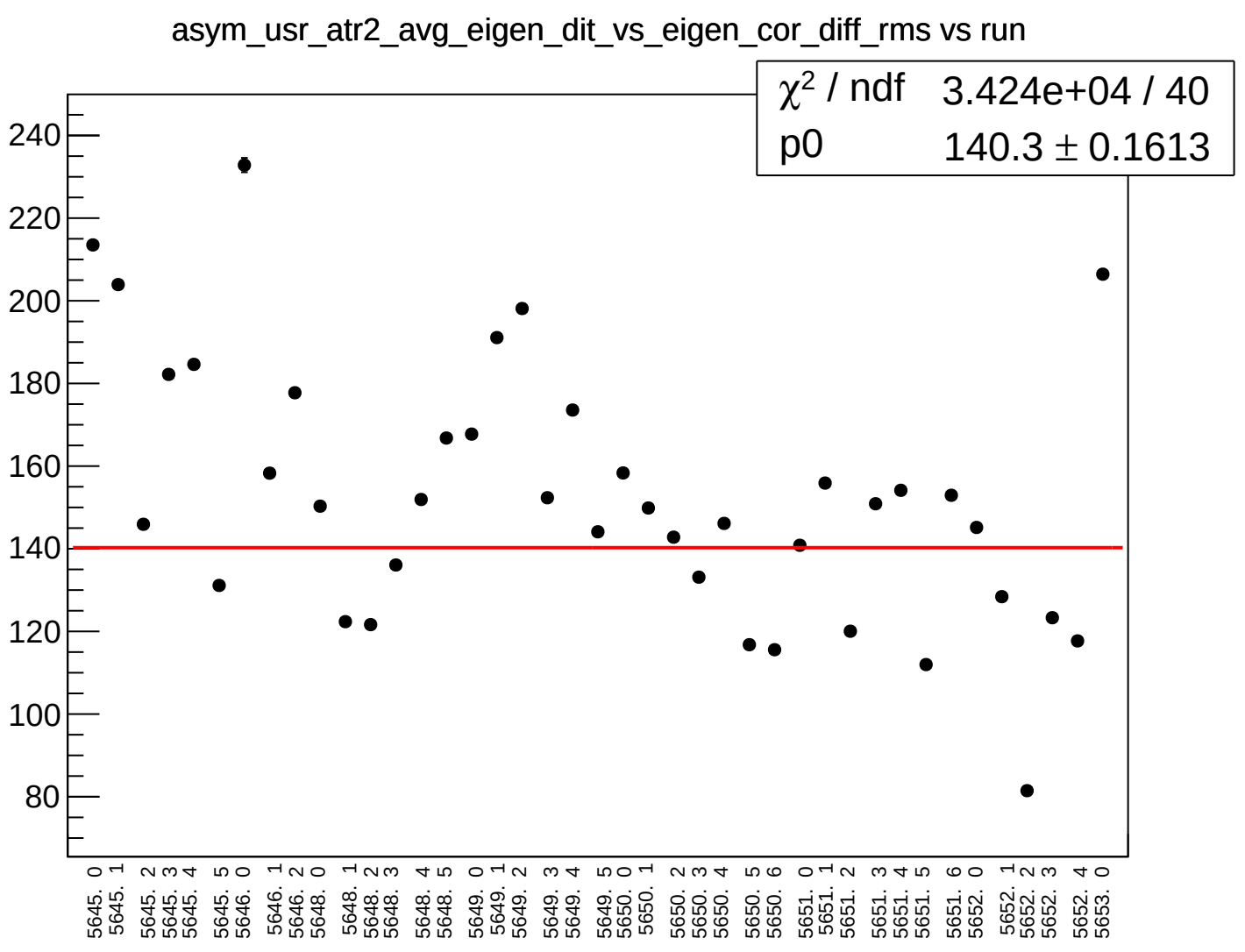

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.12 / 40
p0 0.02072 ± 0.2281
pull
Entries 41
Mean −9.046
Std Dev 0

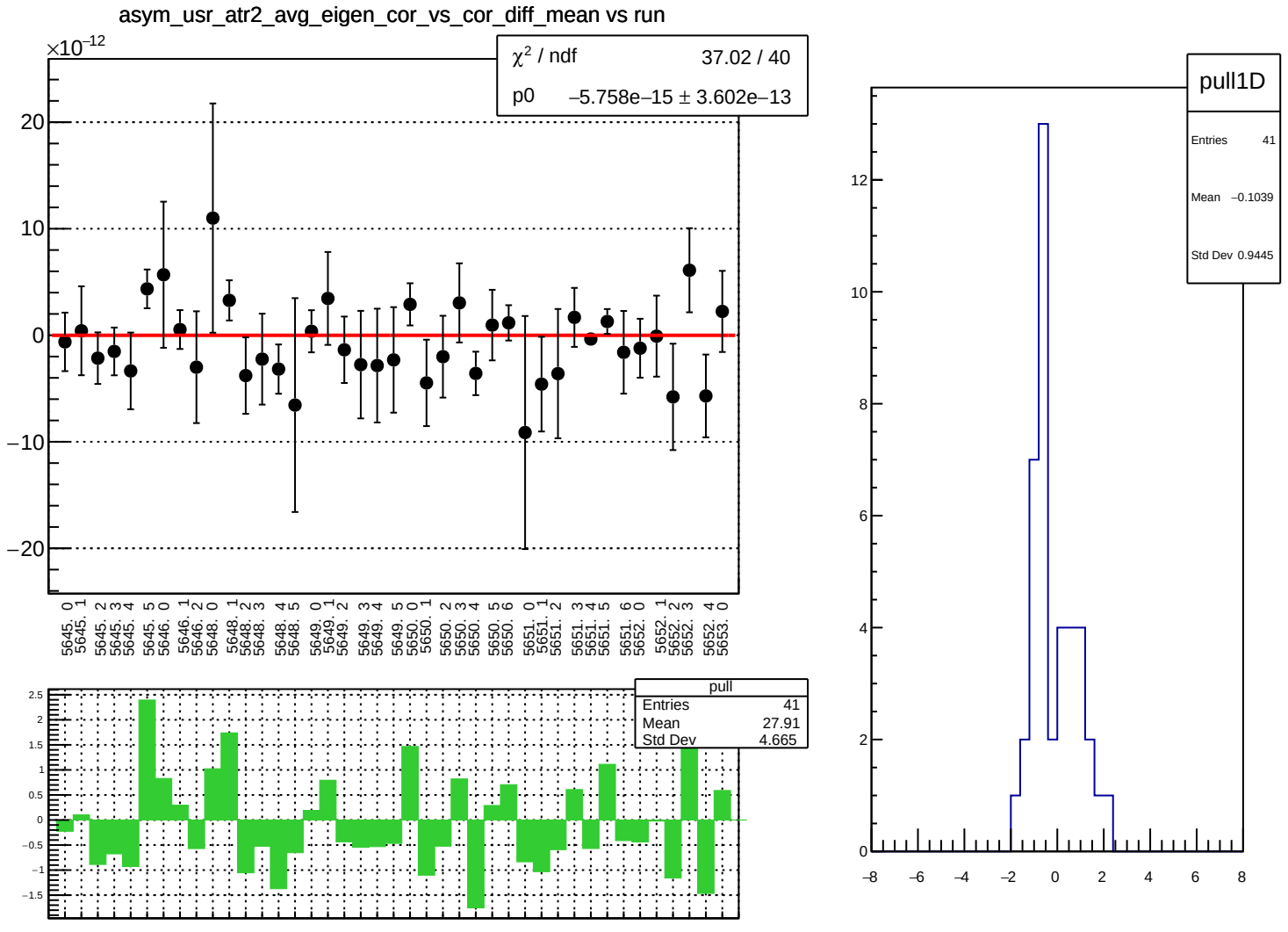

pull1D
Entries 41
Mean −0.03143
Std Dev 0.925

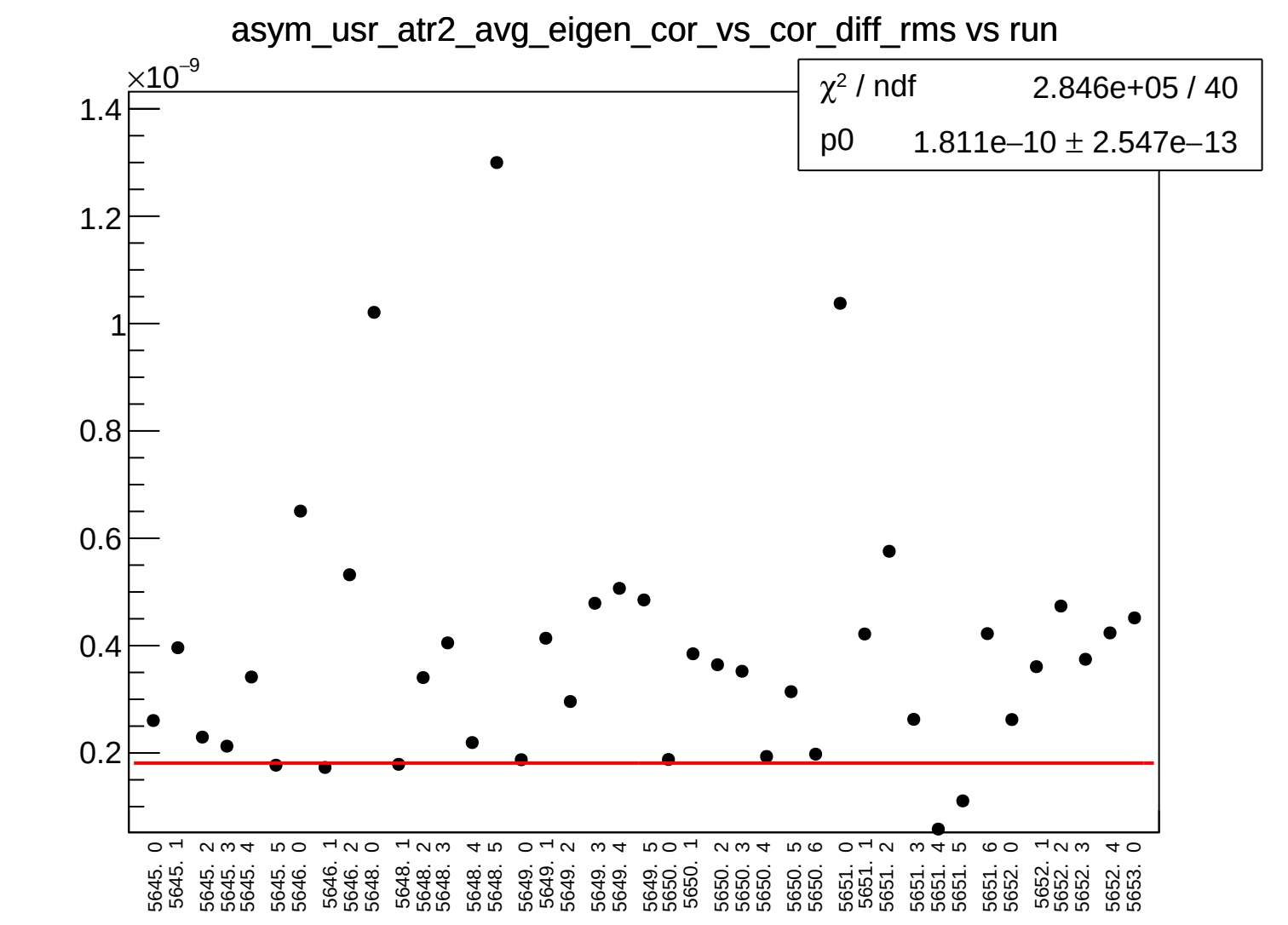

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.424e+04 / 40
p0 140.3 ± 0.1613
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

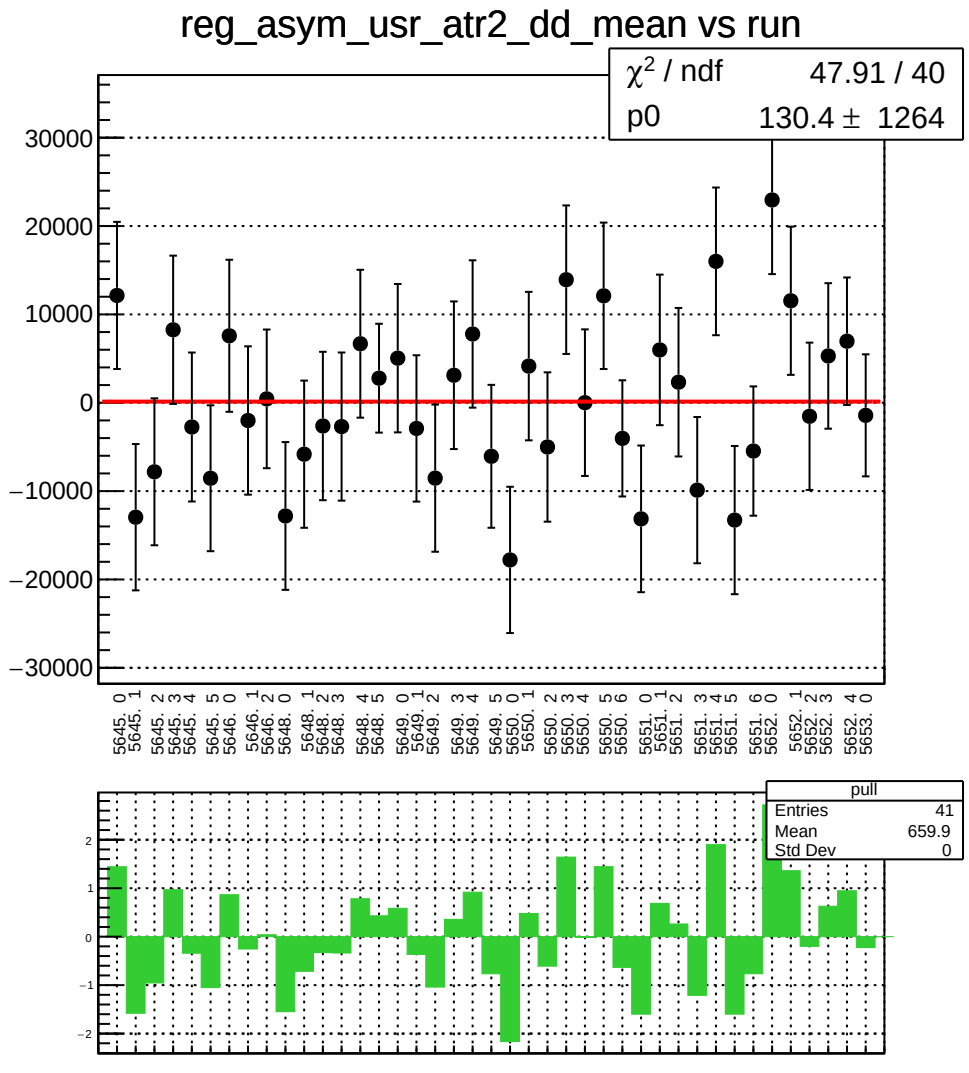

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.12 / 40
p0 0.02072 ± 0.2281
pull
Entries 41
Mean −9.046
Std Dev 0

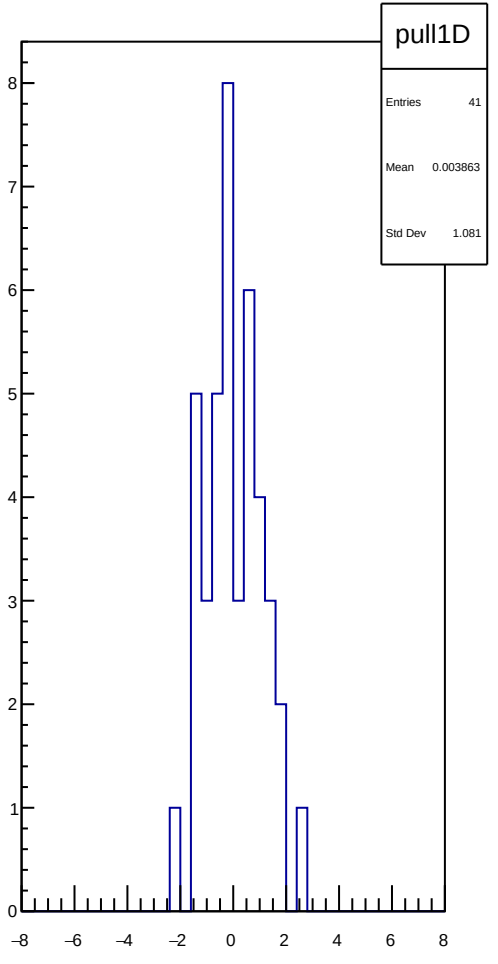

pull1D
Entries 41
Mean −0.03143
Std Dev 0.925


asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.424e+04 / 40
p0 140.3 ± 0.1613
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 37.02 / 40
p0 −5.758e−15 ± 3.602e−13
20
10
0
−10
−20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 27.91
Std Dev 4.665
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.1039
Std Dev 0.9445
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.846e+05 / 40
p0 1.811e−10 ± 2.547e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 47.91 / 40
p0 130.4 ± 1264
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 659.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.003863
Std Dev 1.081
8
7
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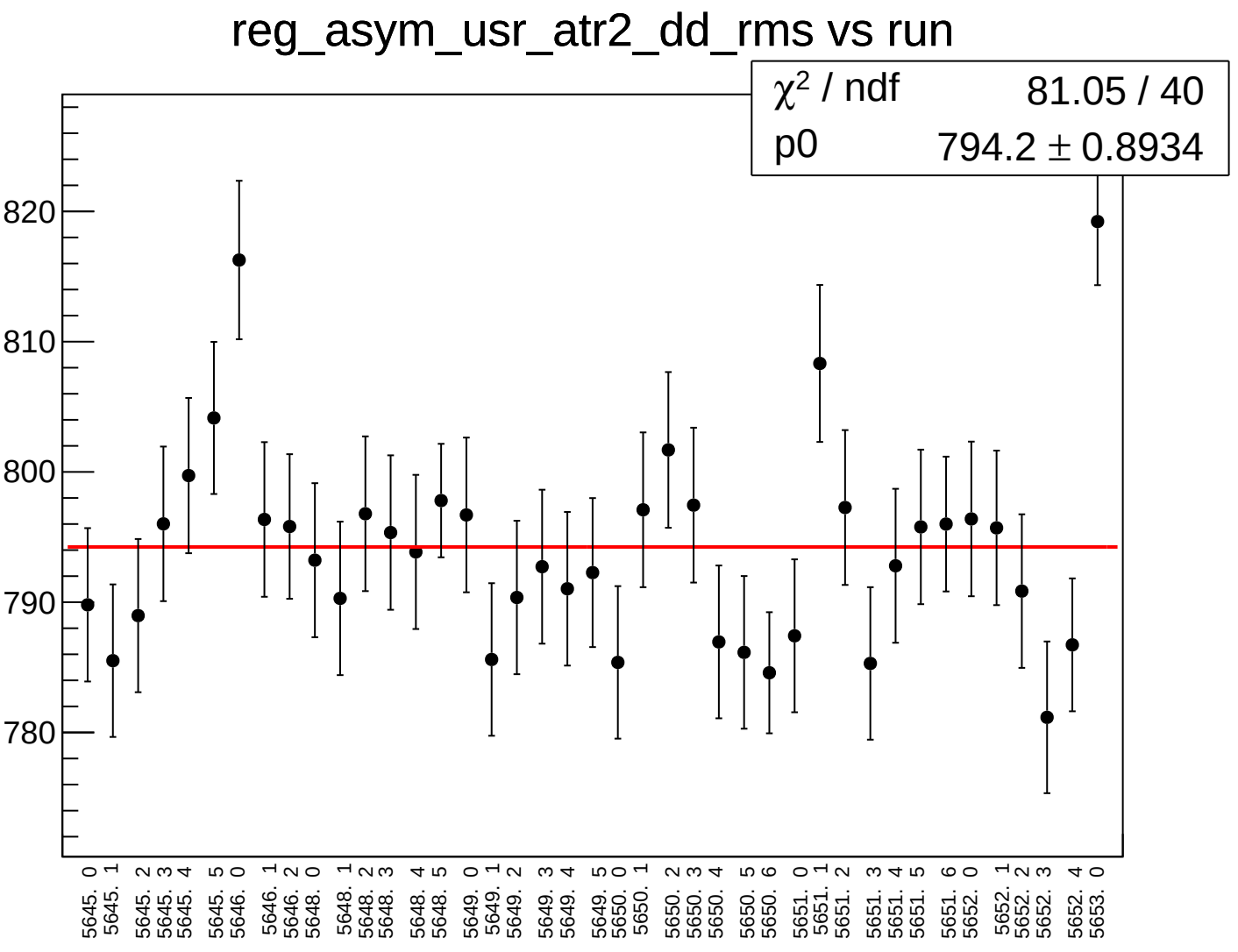
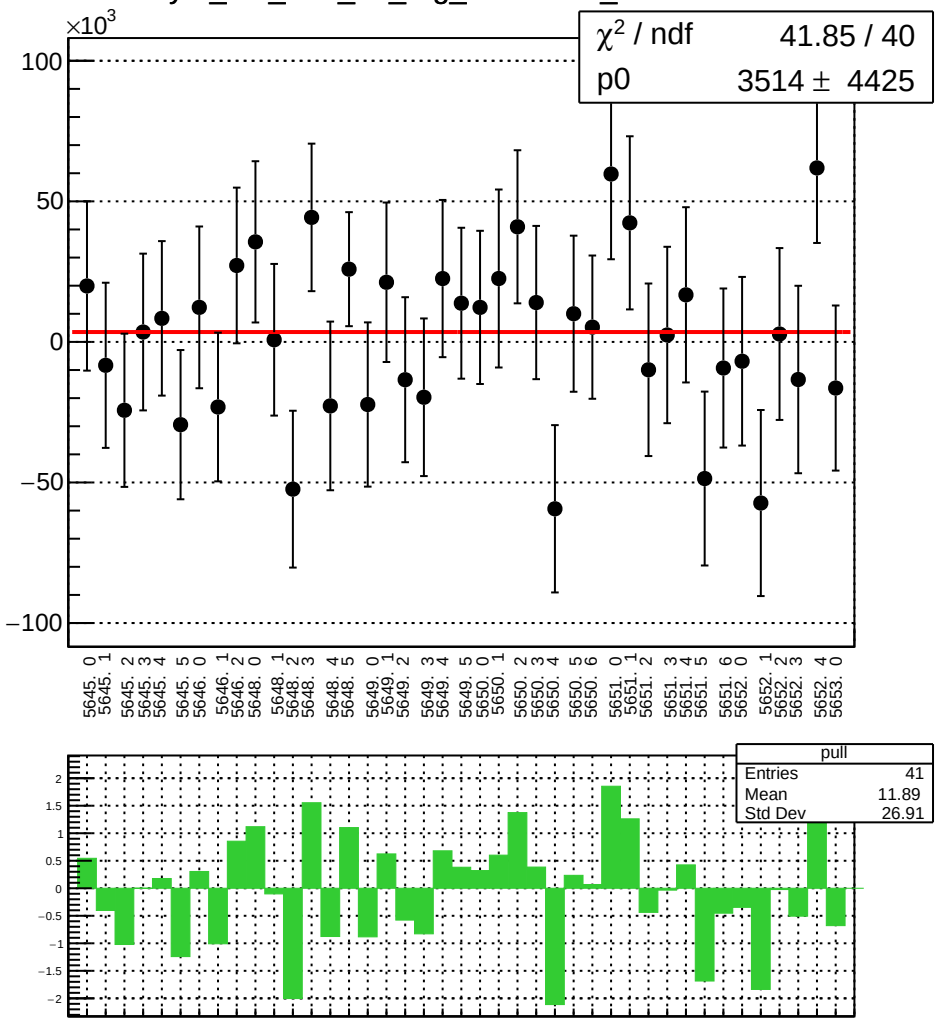
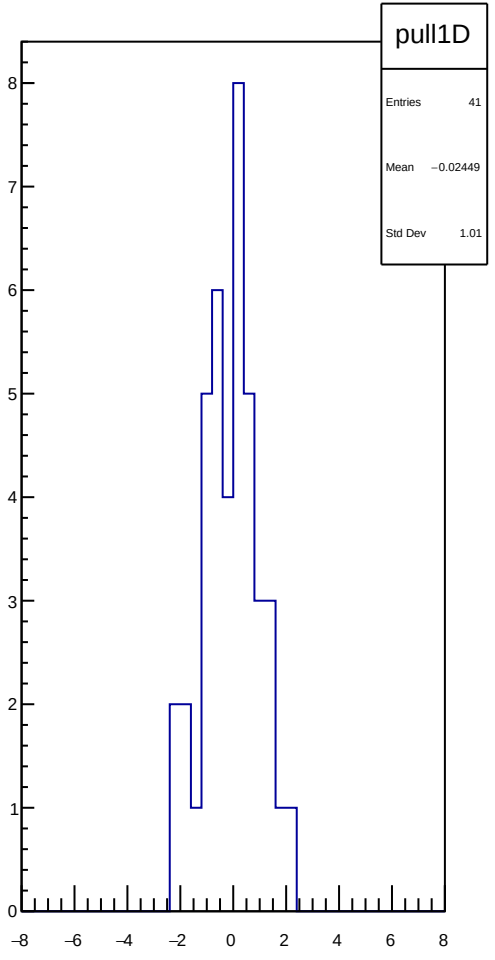
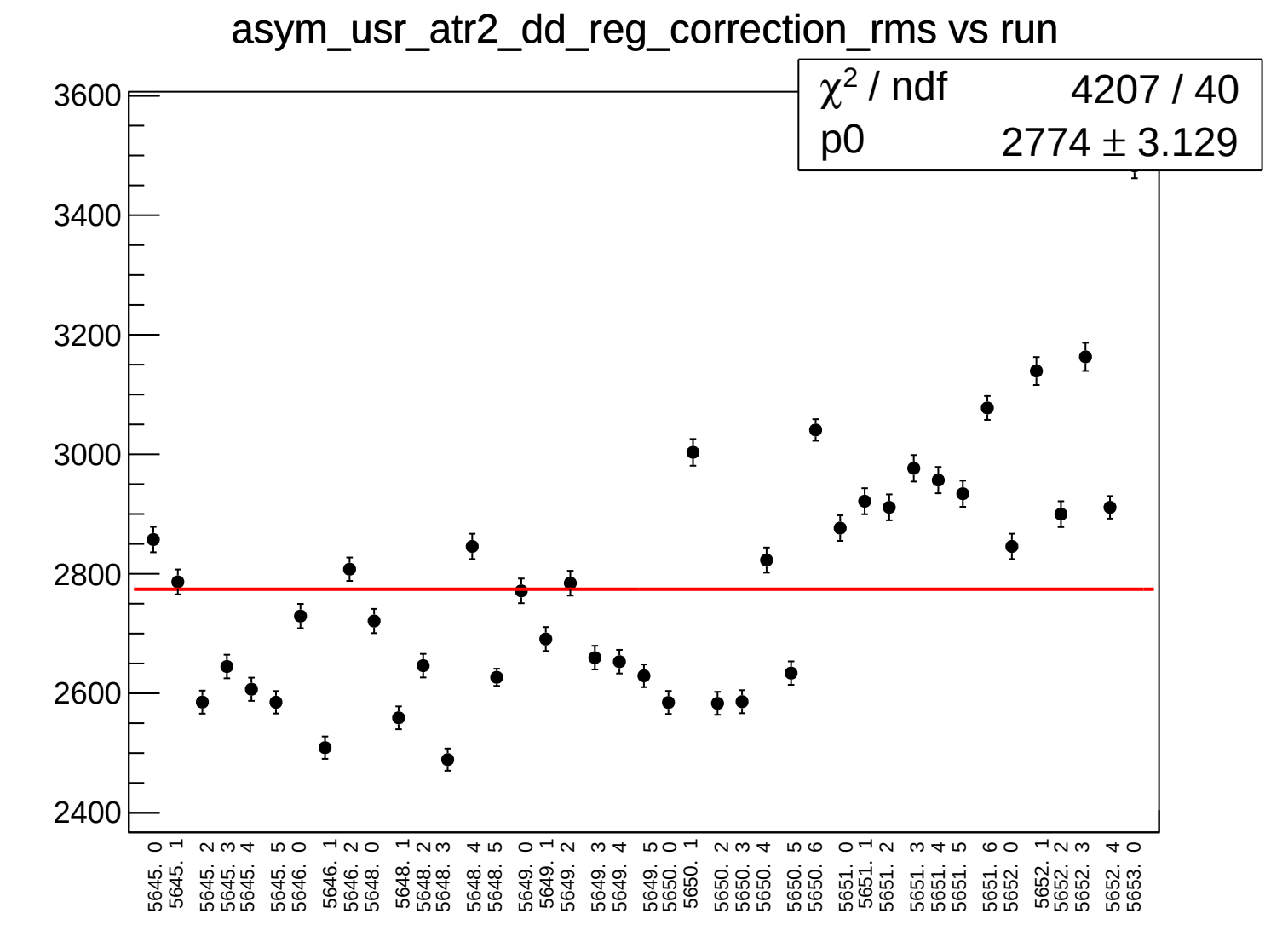
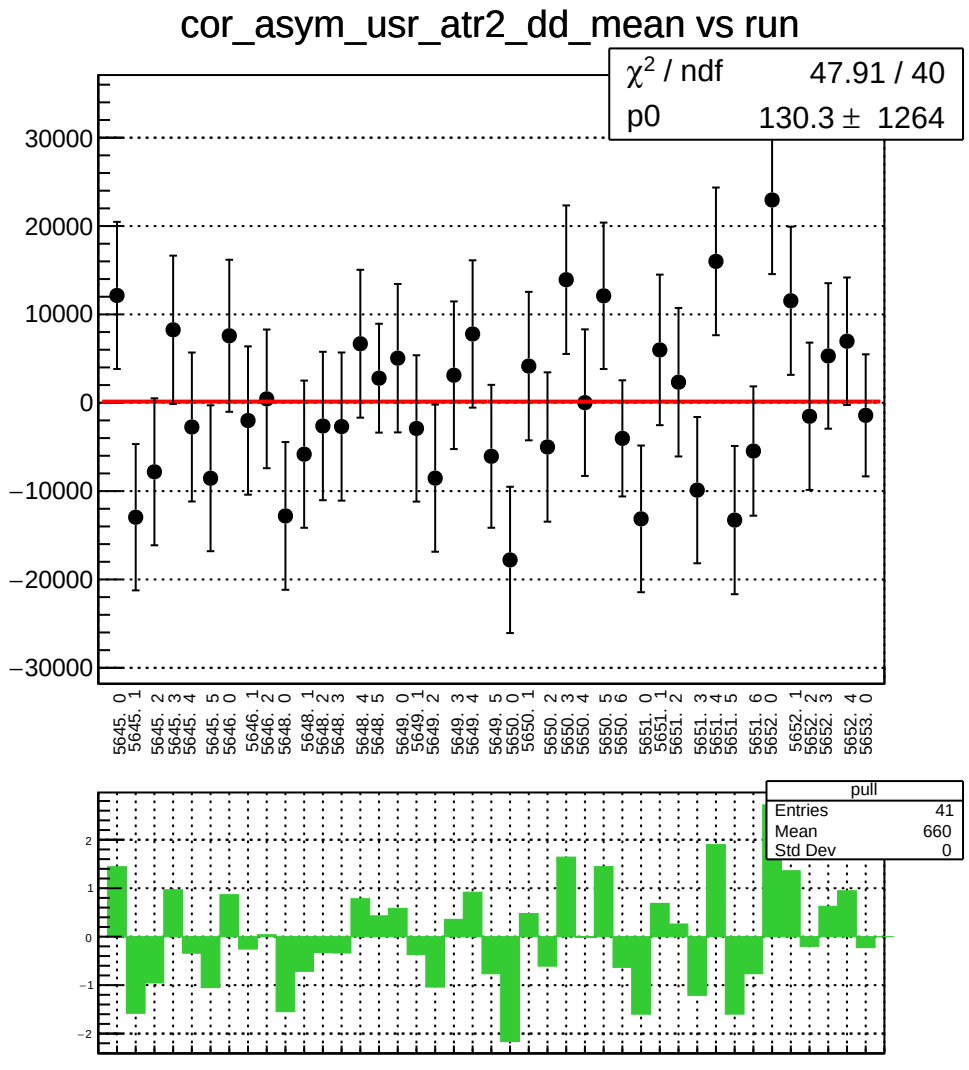
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

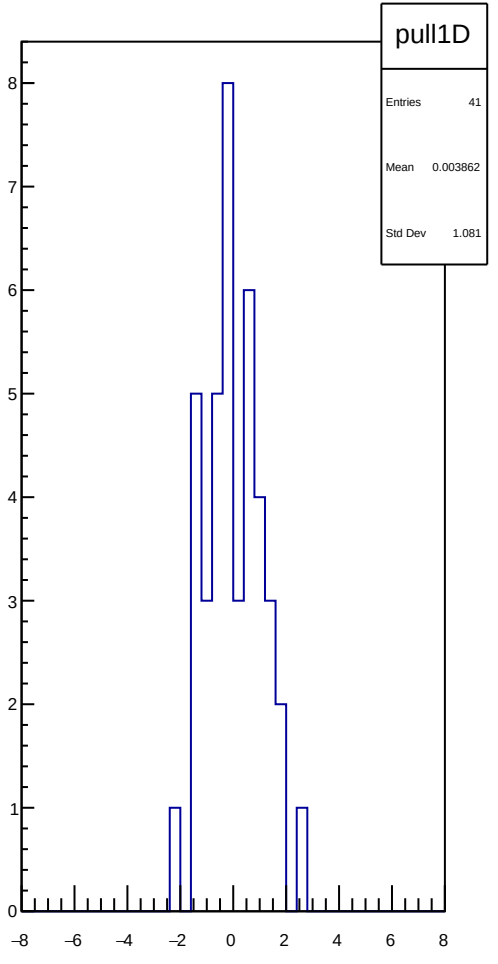

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 81.05 / 40
p0 794.2 ± 0.8934
820
810
800
790
780
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

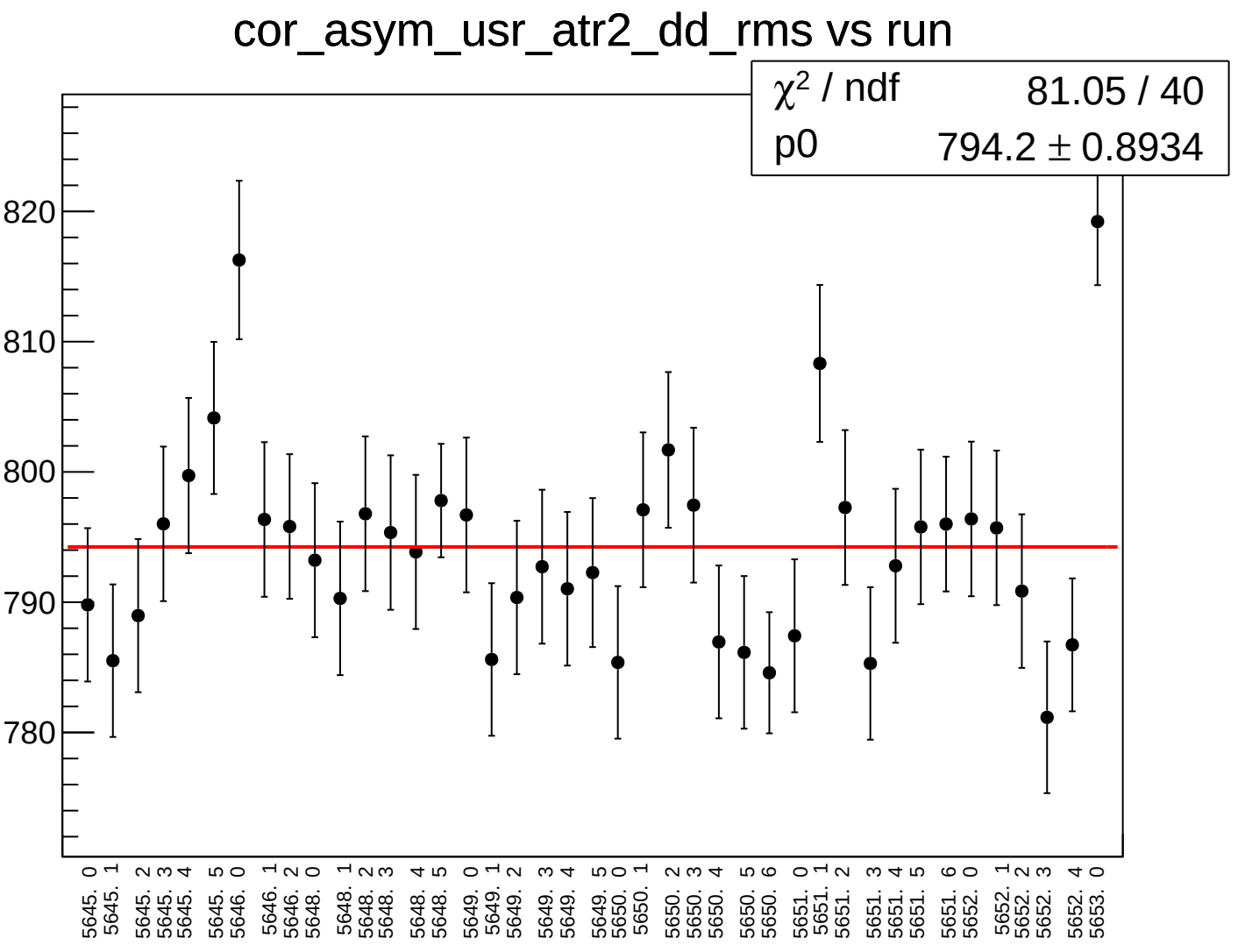

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 41.85 / 40
p0 3514 ± 4425
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 11.89
Std Dev 26.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

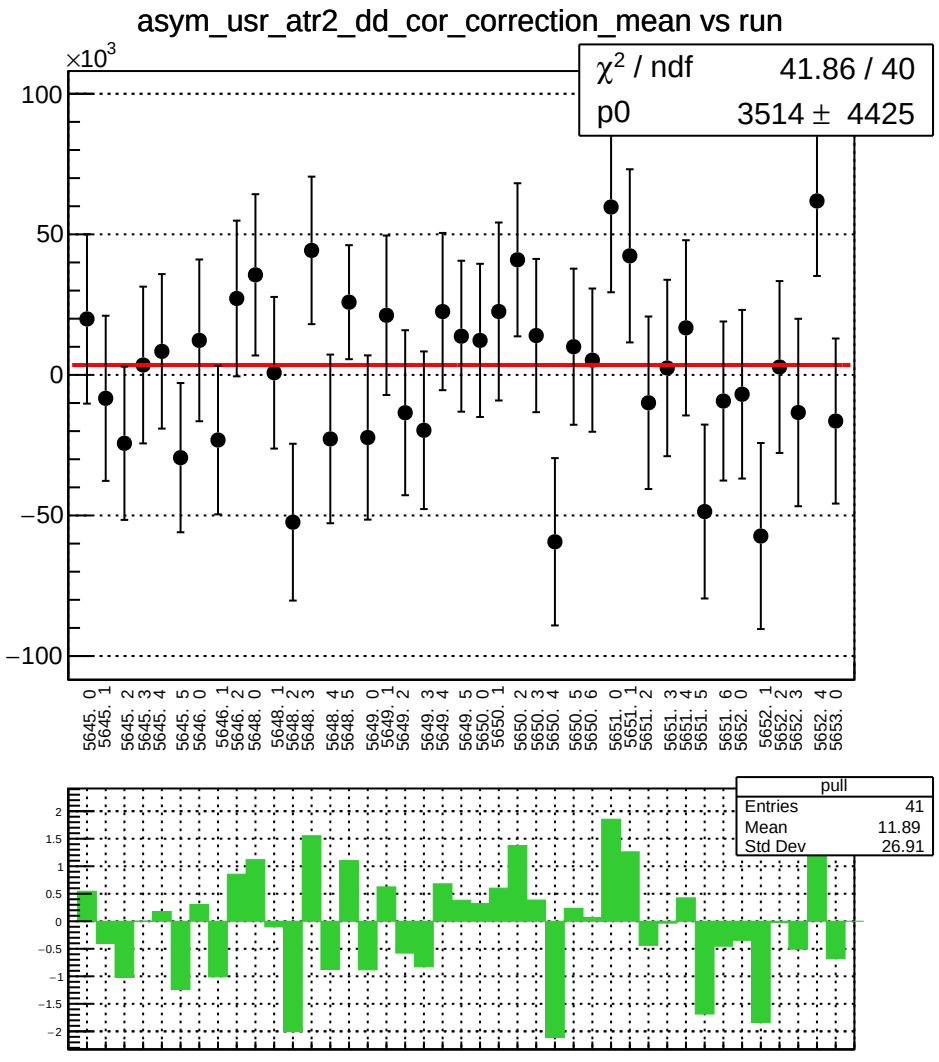

pull1D
Entries 41
Mean −0.02449
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

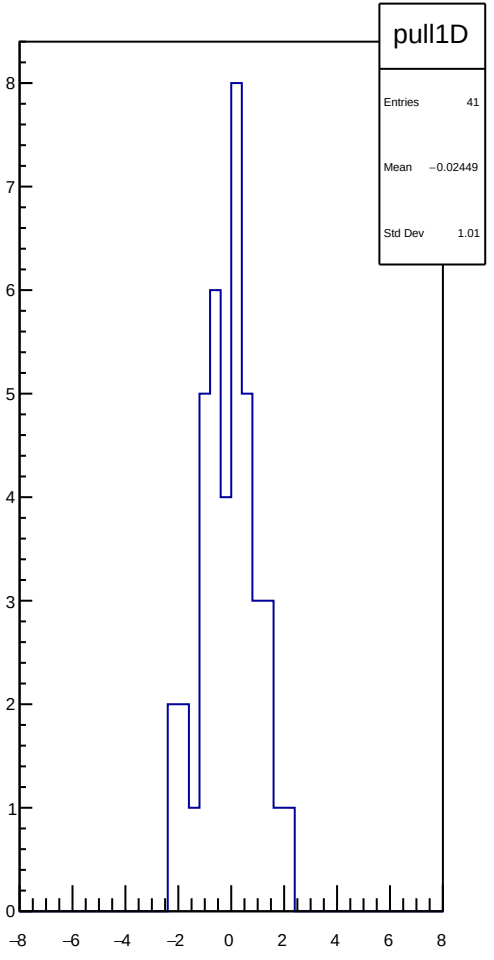

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 4207 / 40
p0 2774 ± 3.129
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

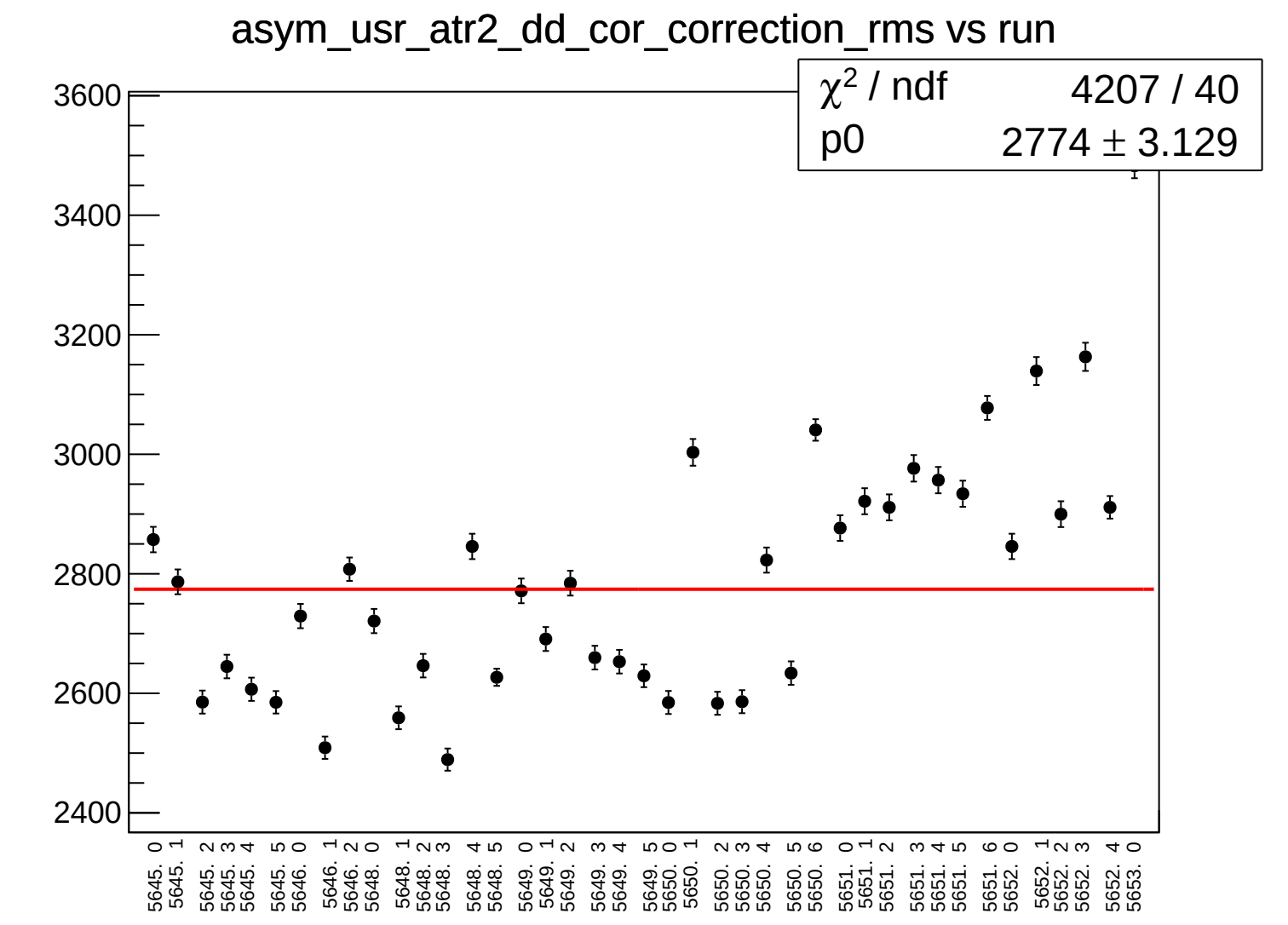

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 47.91 / 40
p0 130.3 ± 1264
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 660
Std Dev 0
2
1
0
−1
−2

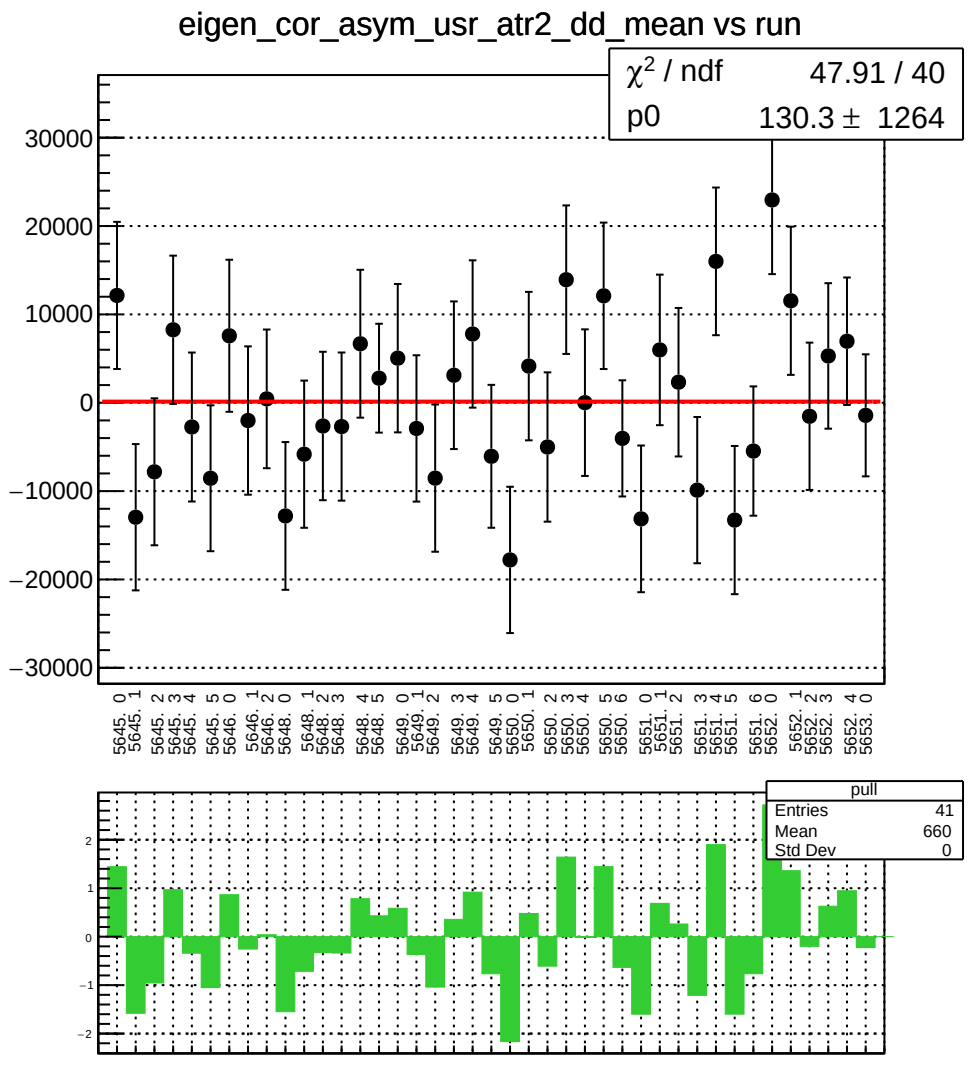

pull1D
Entries 41
Mean 0.003862
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

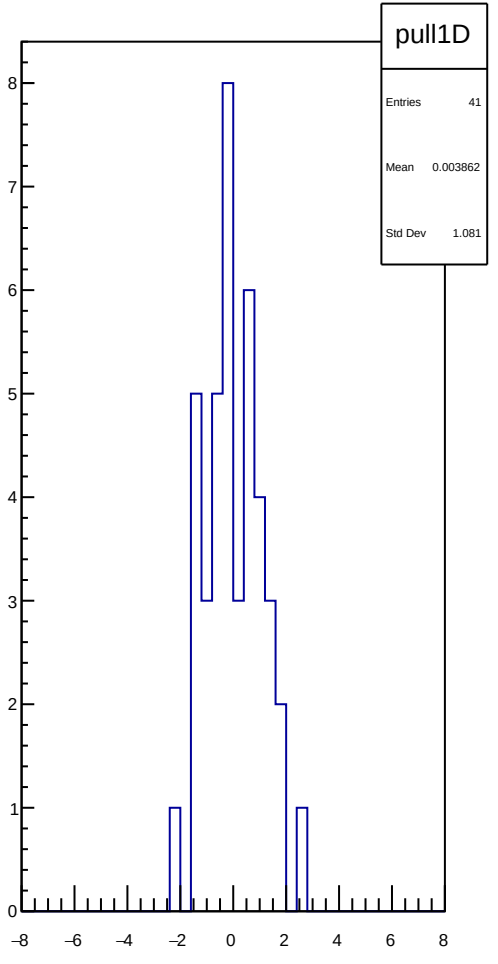

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 81.05 / 40
p0 794.2 ± 0.8934
820
810
800
790
780
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

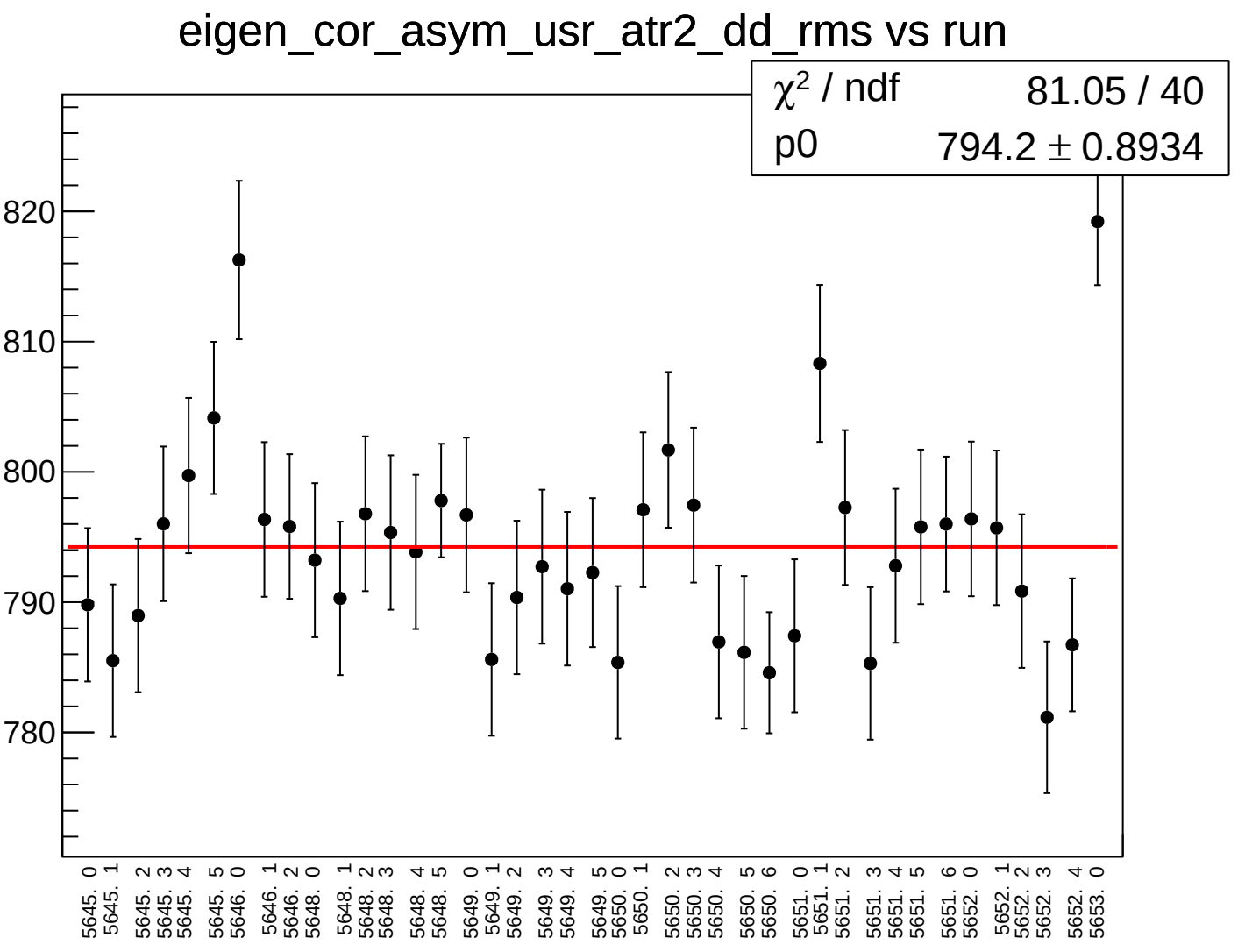

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 41.86 / 40
p0 3514 ± 4425
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 11.89
Std Dev 26.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

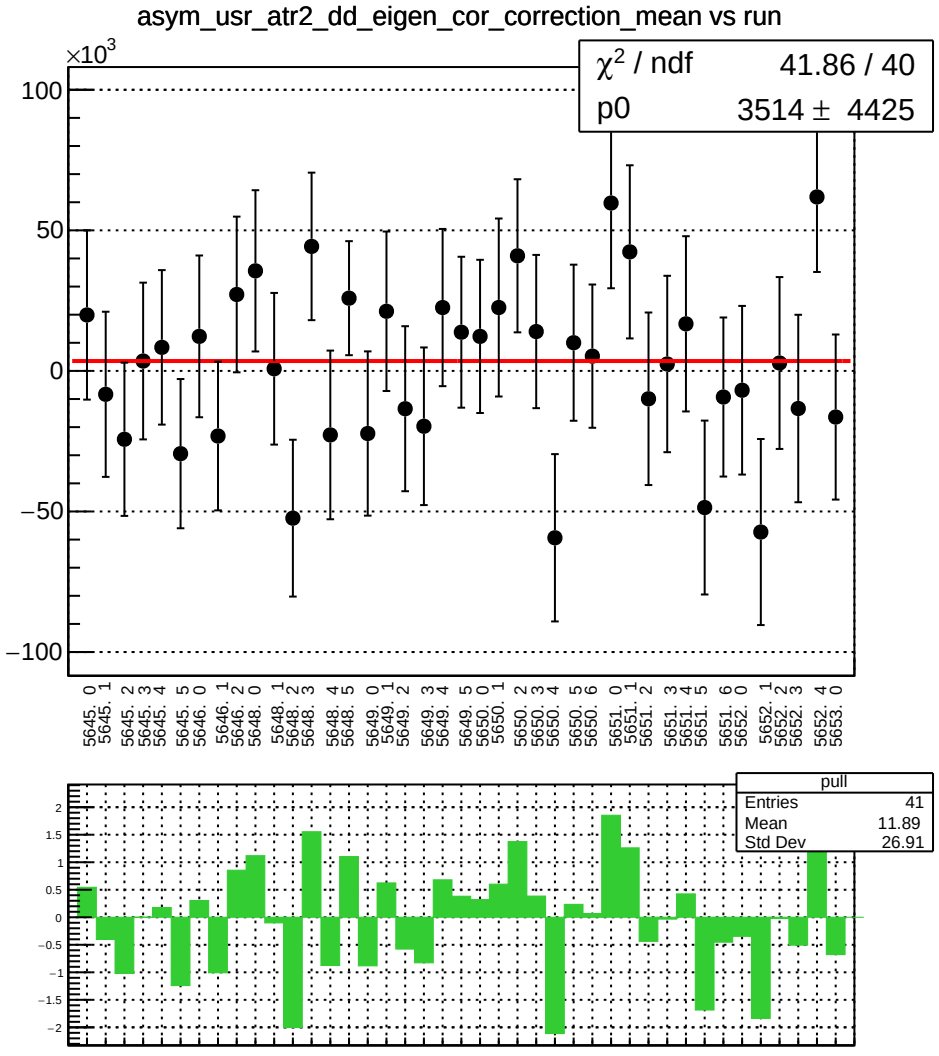

pull1D
Entries 41
Mean −0.02449
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

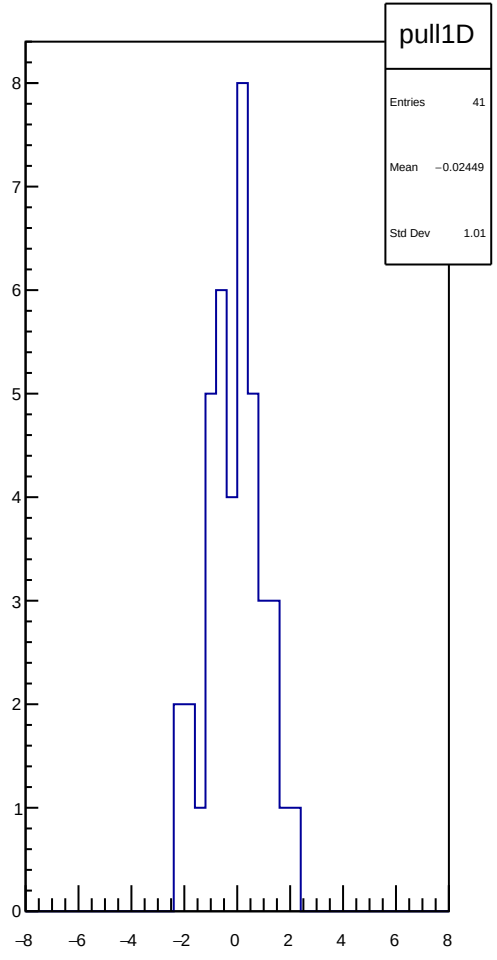

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 4207 / 40
p0 2774 ± 3.129
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

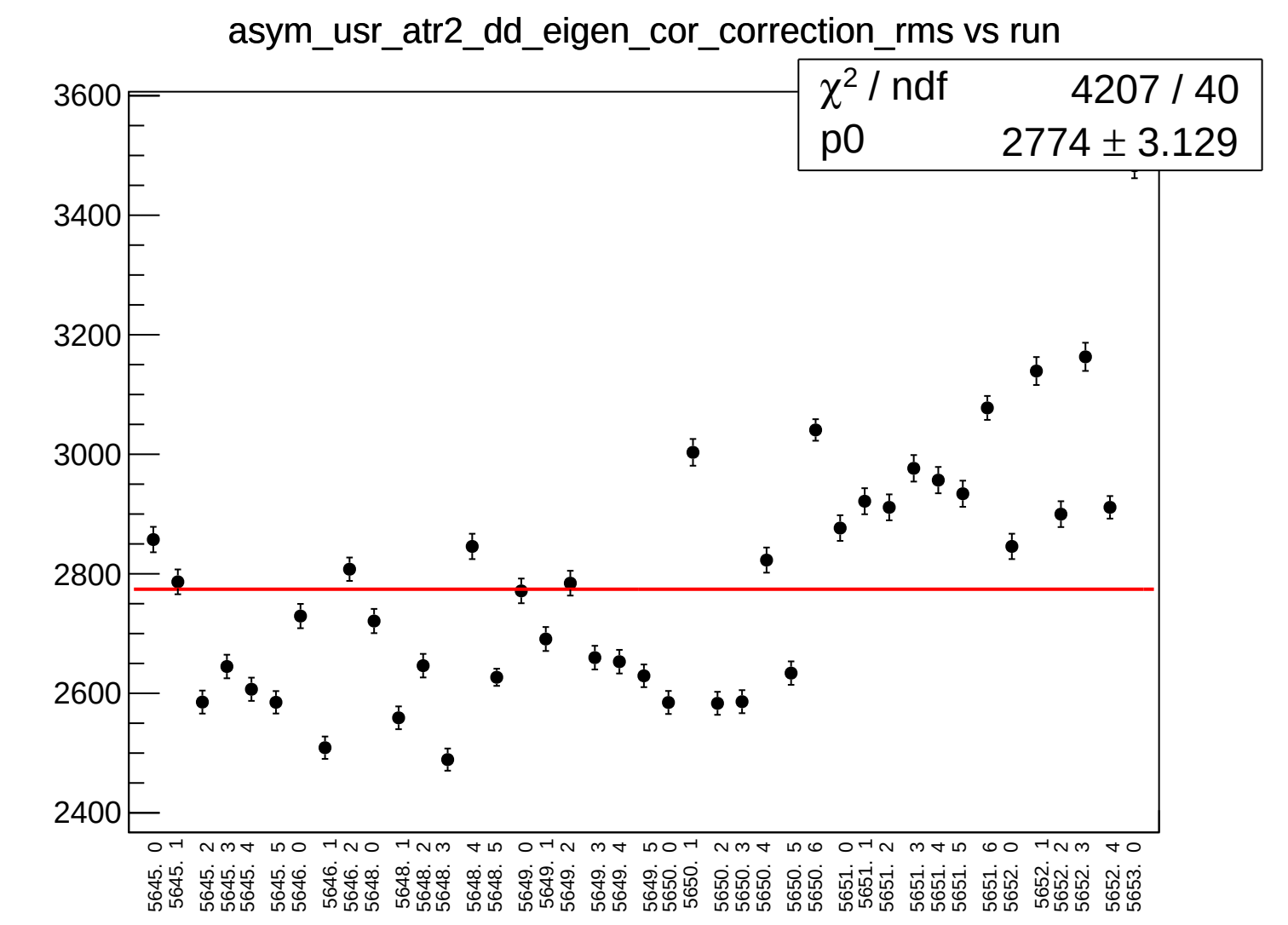

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 47.91 / 40
p0 130.3 ± 1264
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 660
Std Dev 0
2
1
0
−1
−2

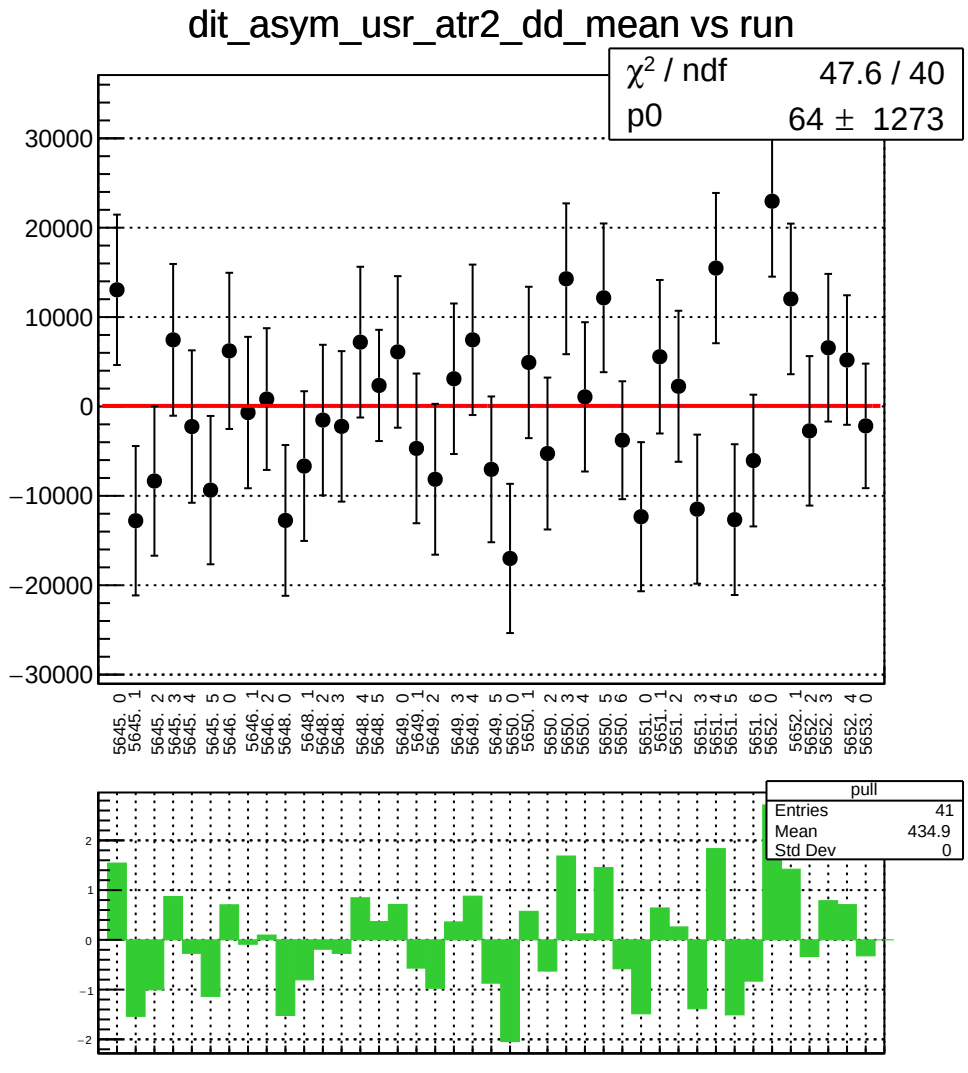

pull1D
Entries 41
Mean 0.003862
Std Dev 1.081
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

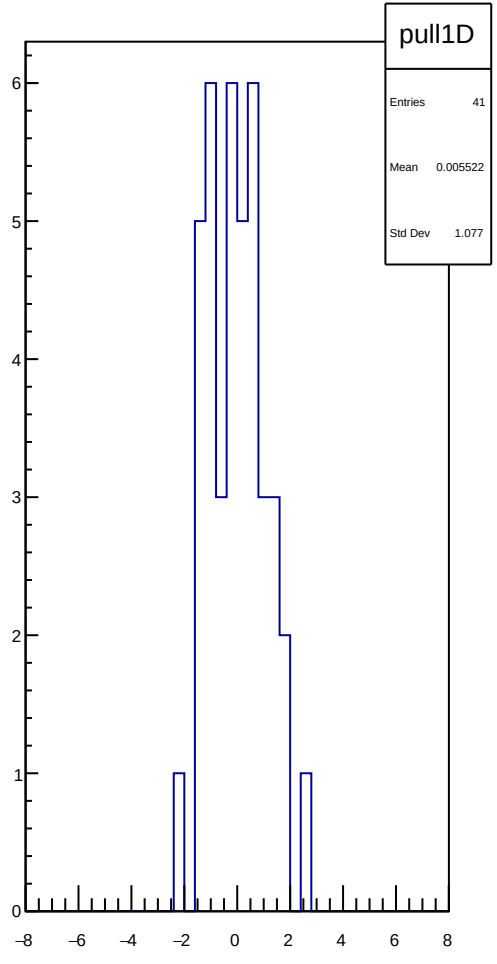

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 81.05 / 40
p0 794.2 ± 0.8934
820
810
800
790
780
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

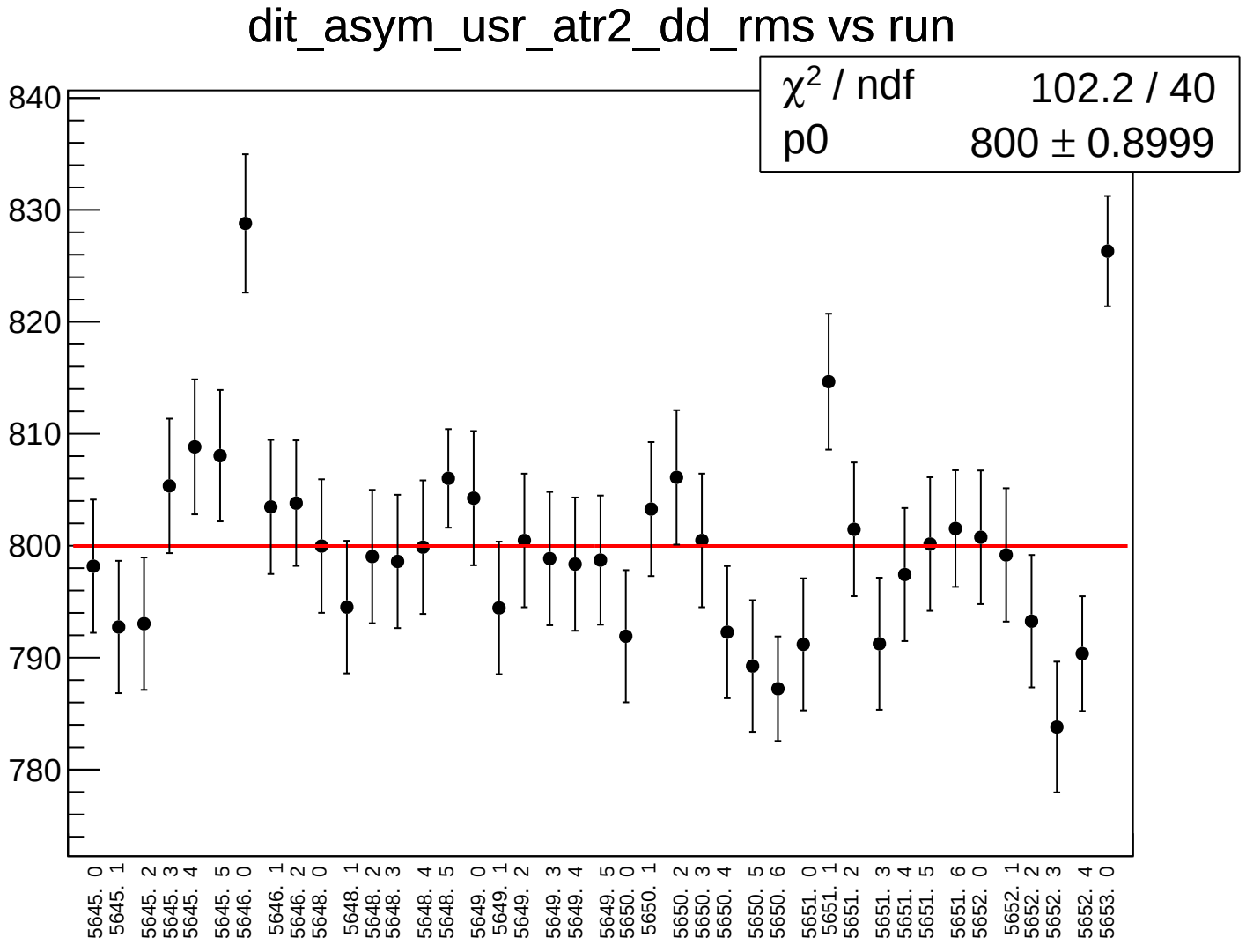

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 41.86 / 40
p0 3514 ± 4425
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 11.89
Std Dev 26.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

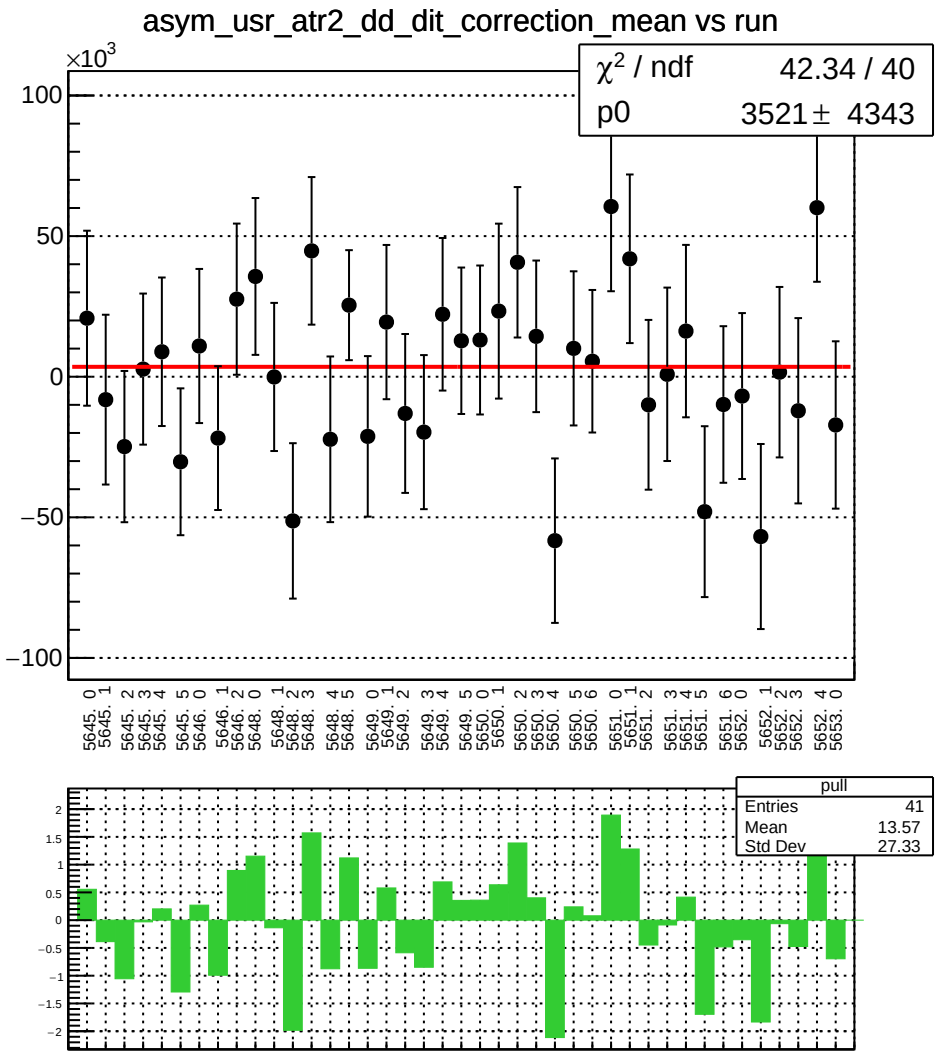

pull1D
Entries 41
Mean −0.02449
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

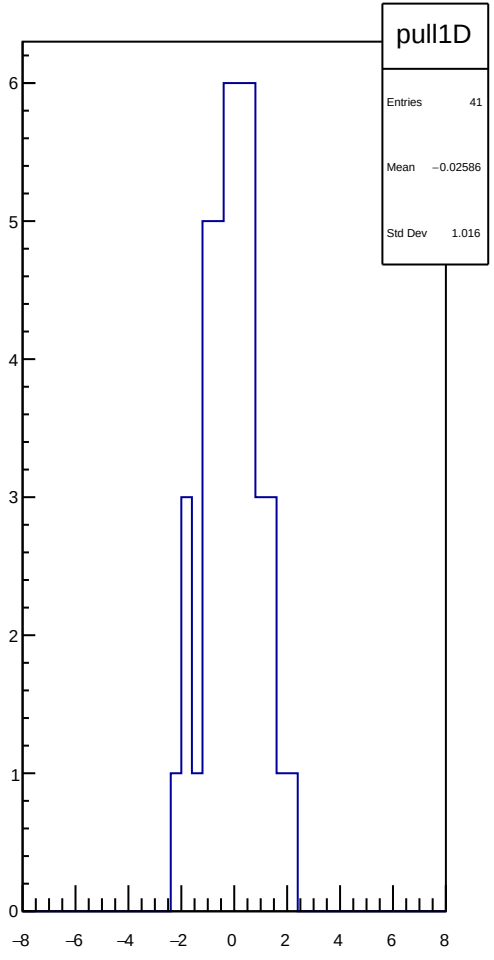

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4207 / 40
p0 2774 ± 3.129
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

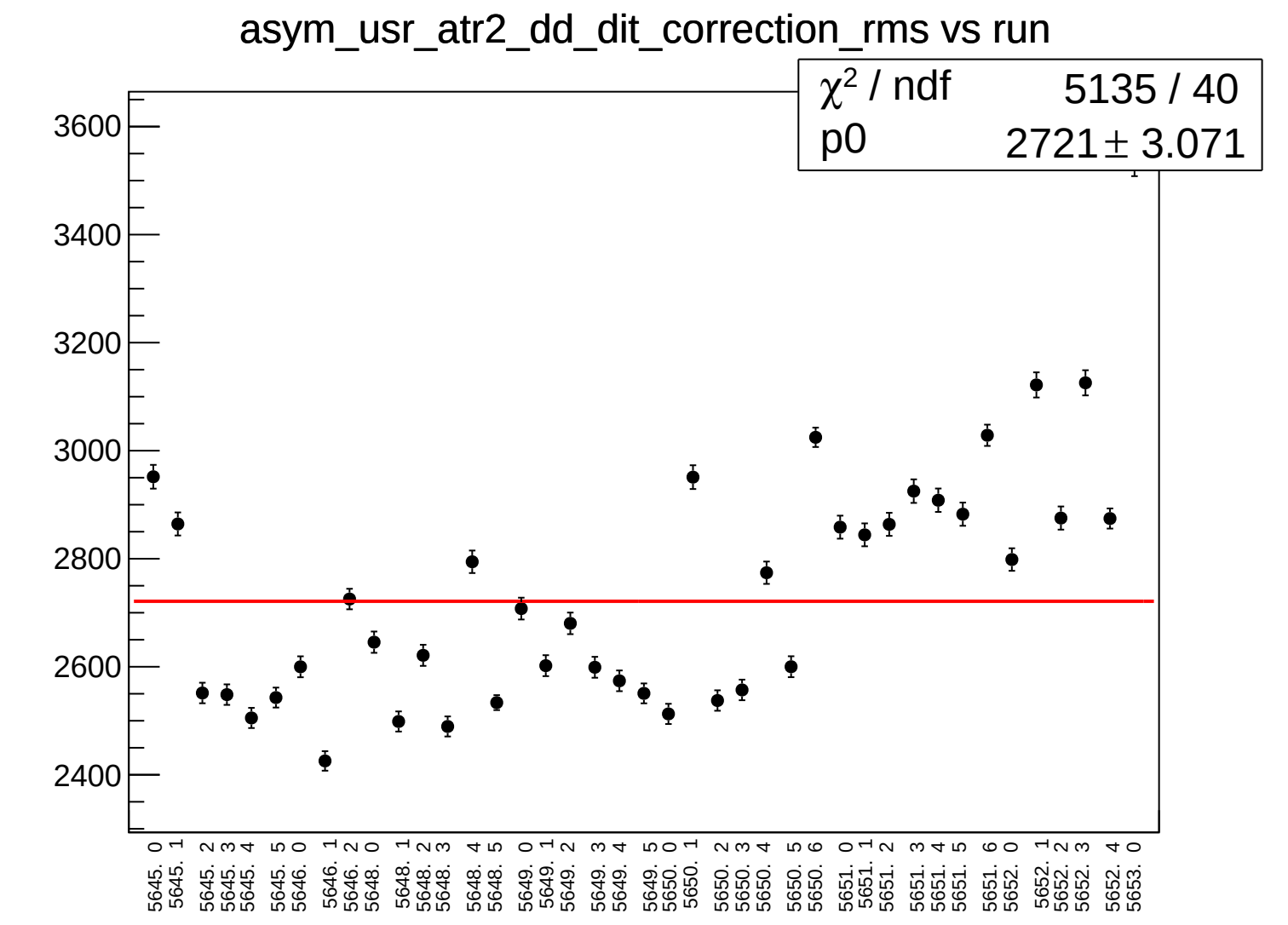

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 47.6 / 40
p0 64 ± 1273
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 434.9
Std Dev 0
2
1
0
−1
−2

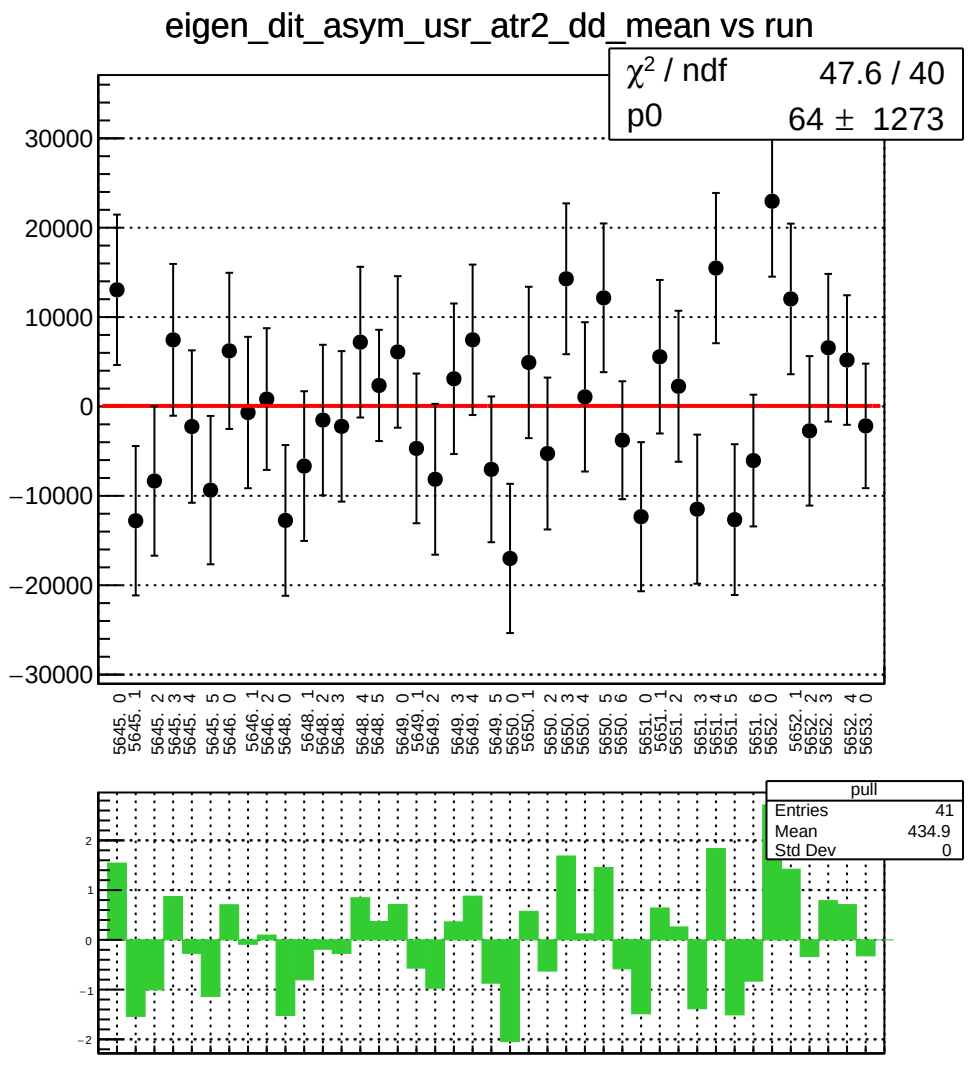

pull1D
Entries 41
Mean 0.005522
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

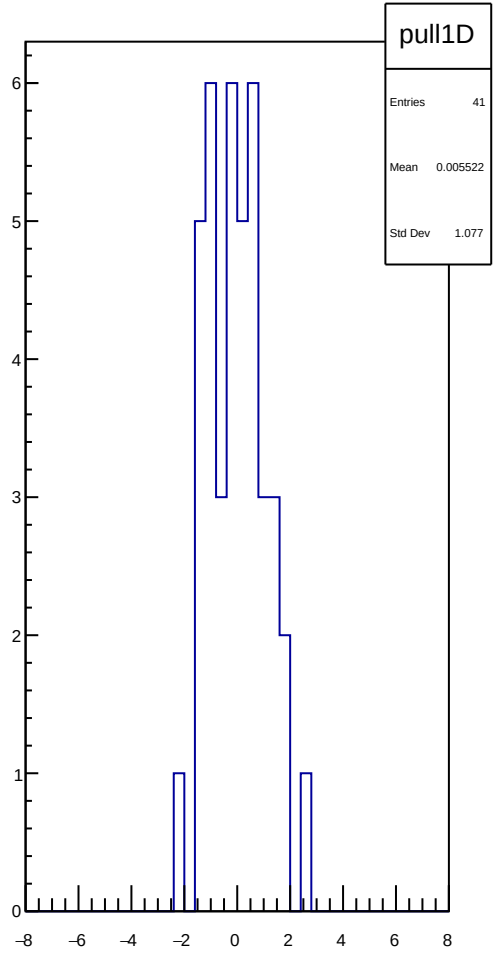

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 102.2 / 40
p0 800 ± 0.8999
840
830
820
810
800
790
780
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

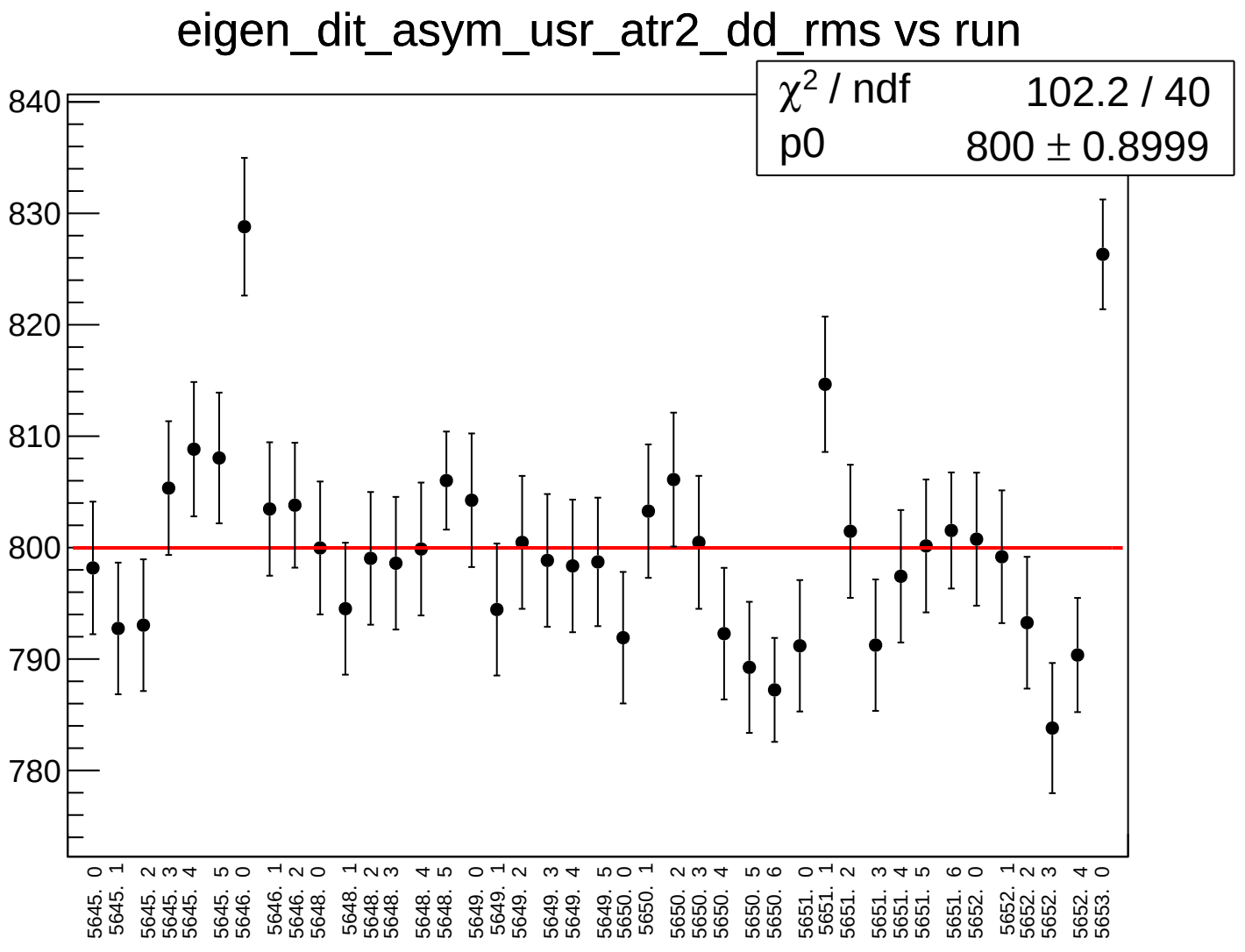

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 42.34 / 40
p0 3521 ± 4343
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.57
Std Dev 27.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

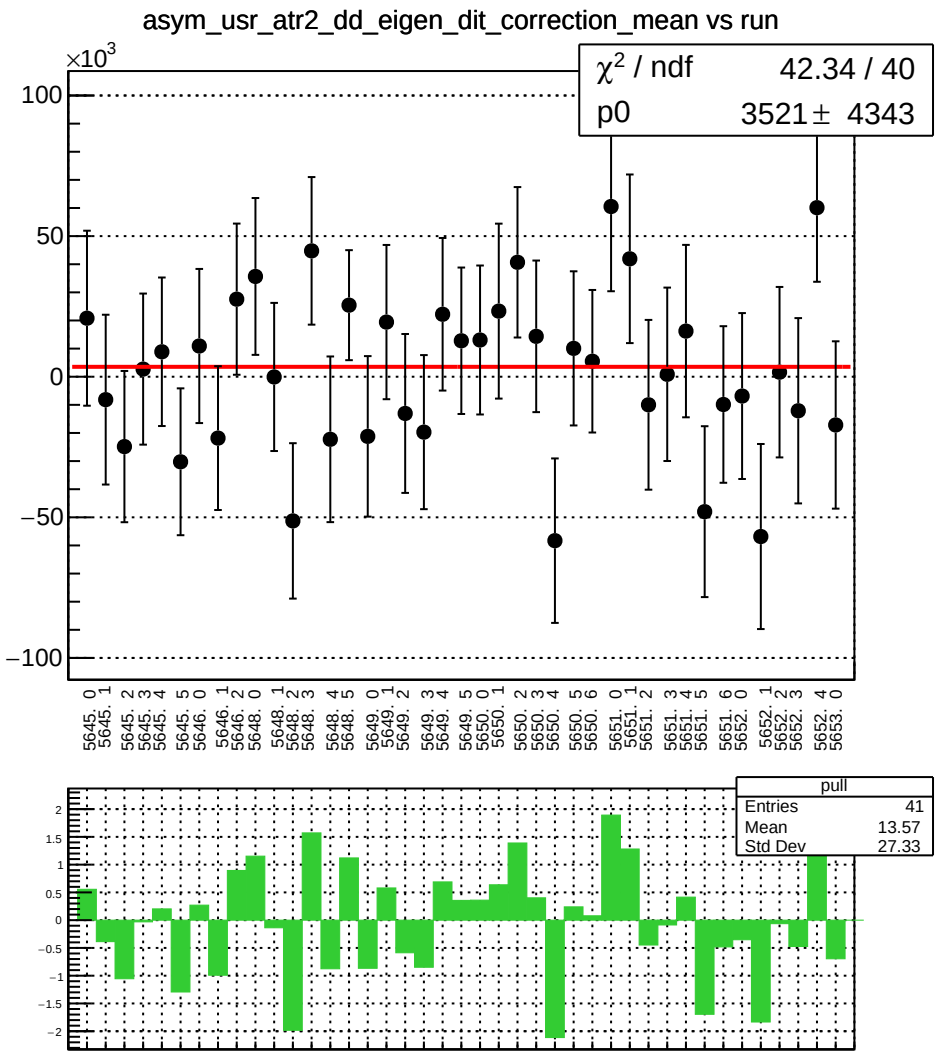

pull1D
Entries 41
Mean −0.02586
Std Dev 1.016
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

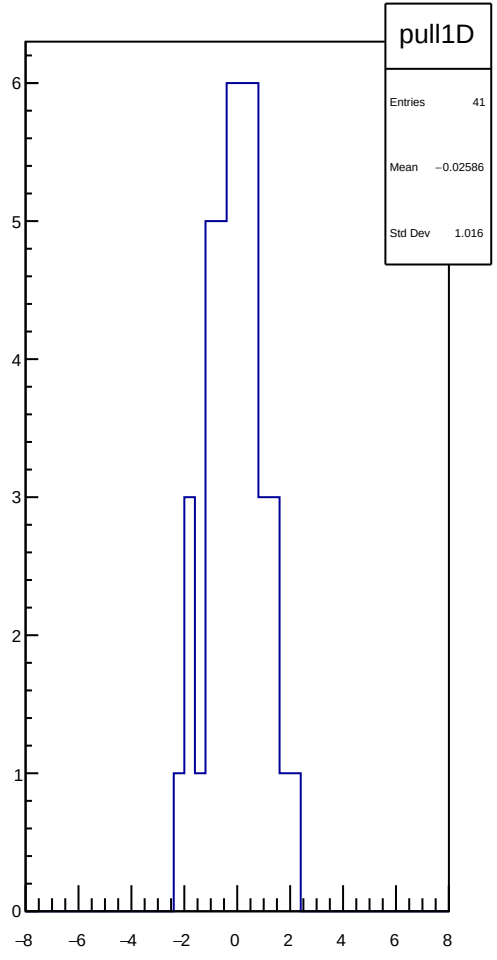

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 5135 / 40
p0 2721 ± 3.071
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

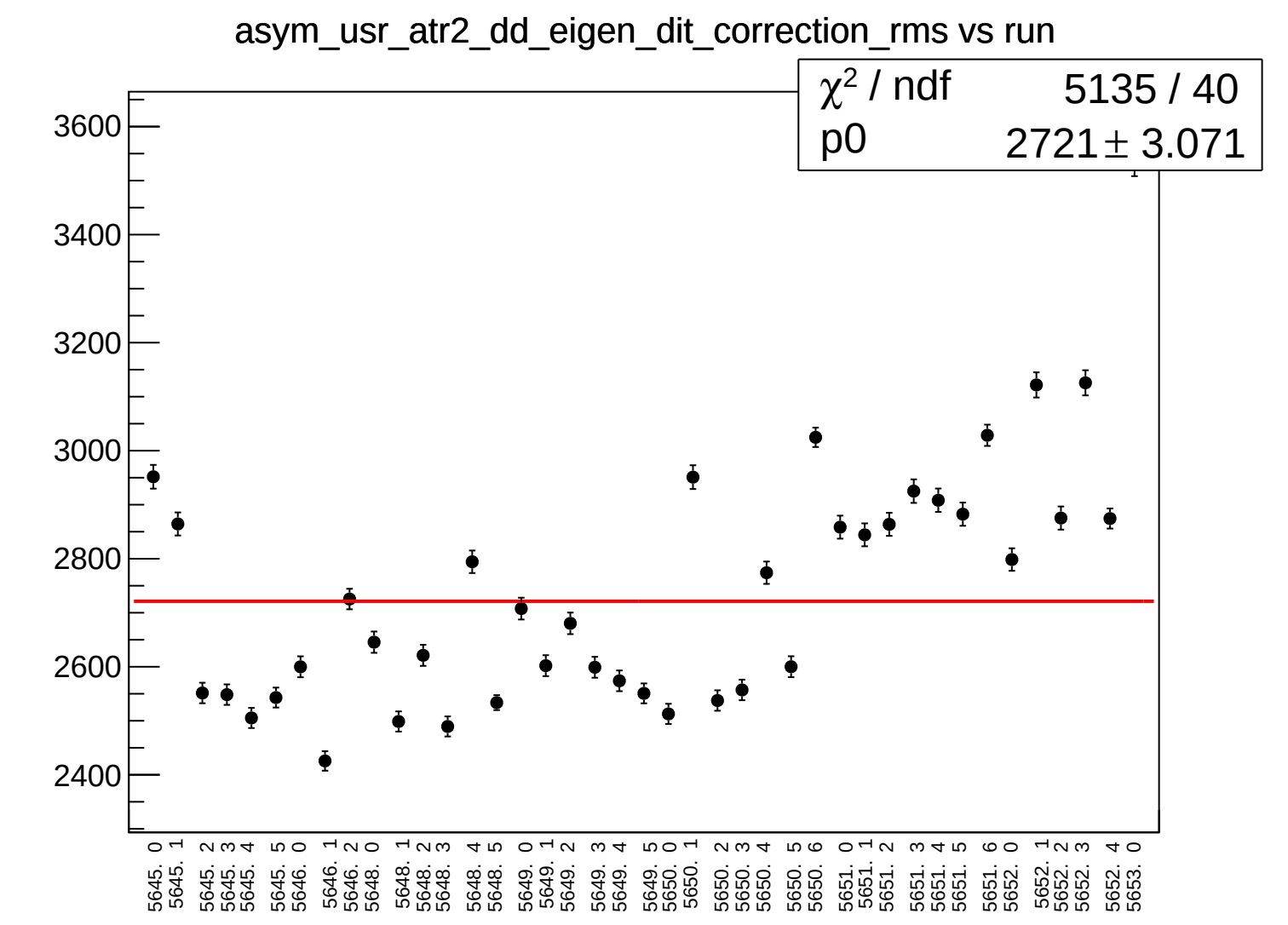

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 47.6 / 40
p0 64 ± 1273
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 434.9
Std Dev 0
2
1
0
−1
−2

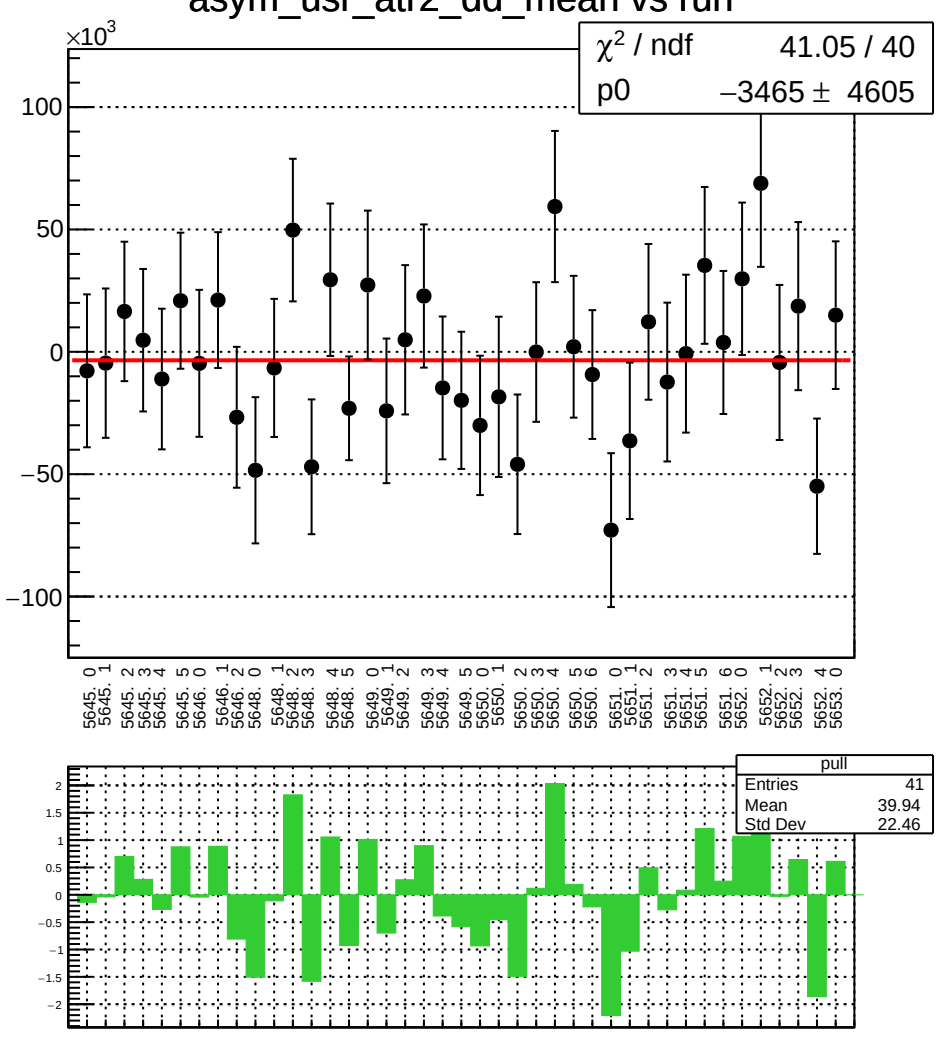

pull1D
Entries 41
Mean 0.005522
Std Dev 1.077
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

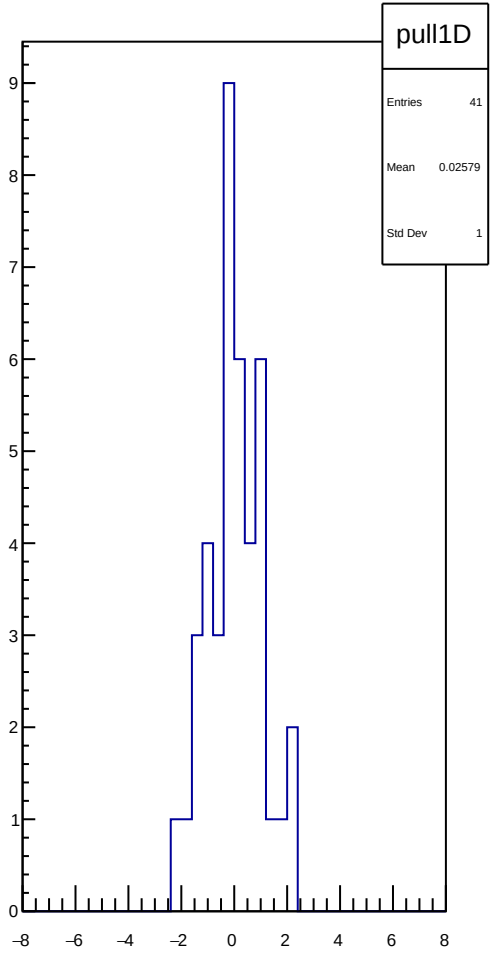

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 102.2 / 40
p0 800 ± 0.8999
840
830
820
810
800
790
780
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

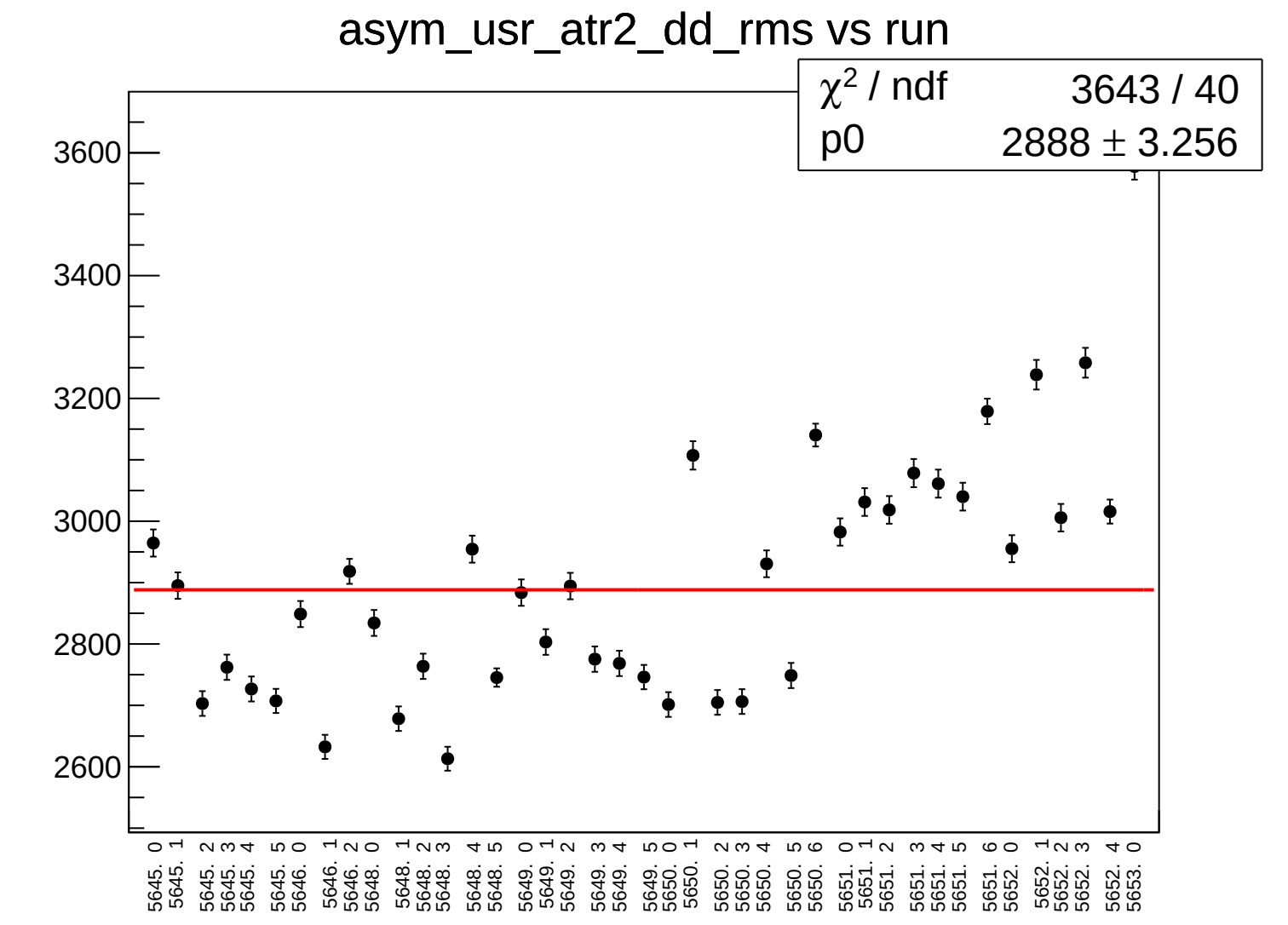

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42.34 / 40
p0 3521 ± 4343
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.57
Std Dev 27.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

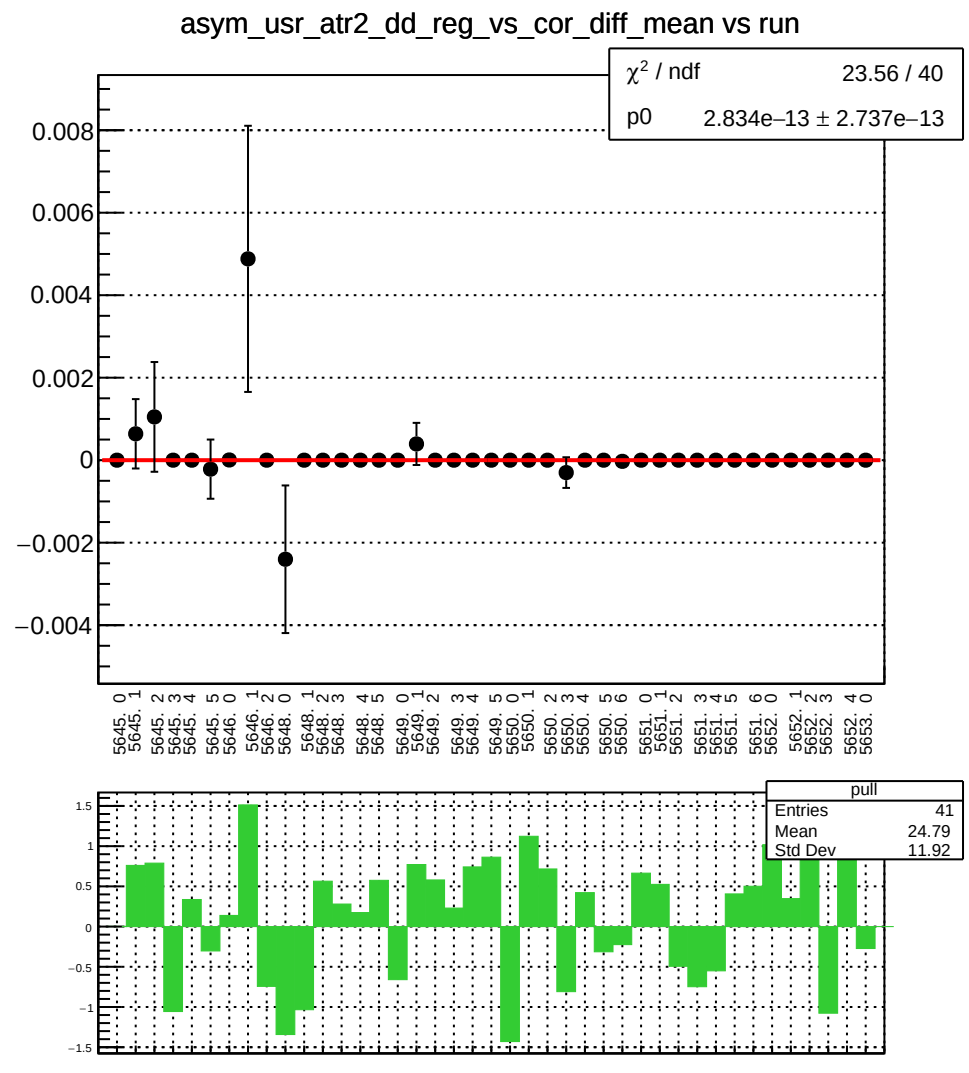

pull1D
Entries 41
Mean −0.02586
Std Dev 1.016
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

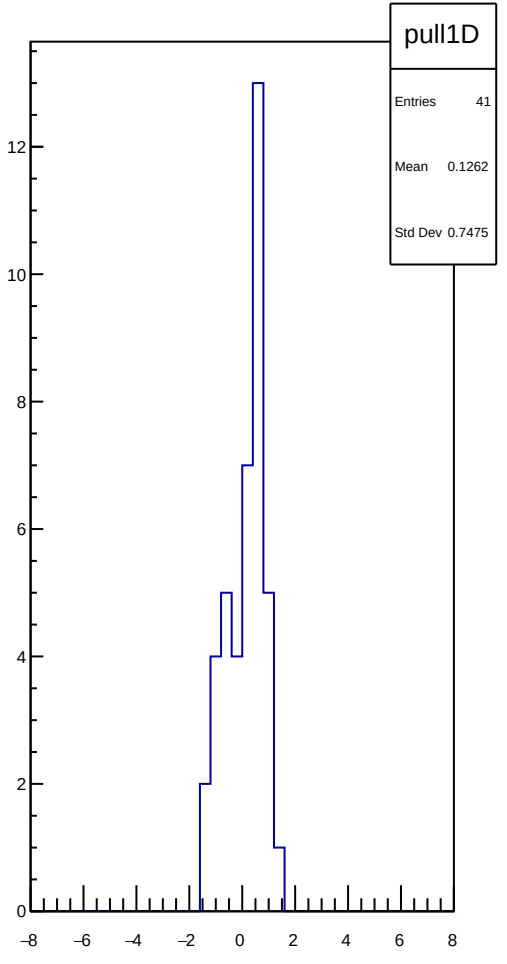

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5135 / 40
p0 2721 ± 3.071
3600
3400
3200
3000
2800
2600
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

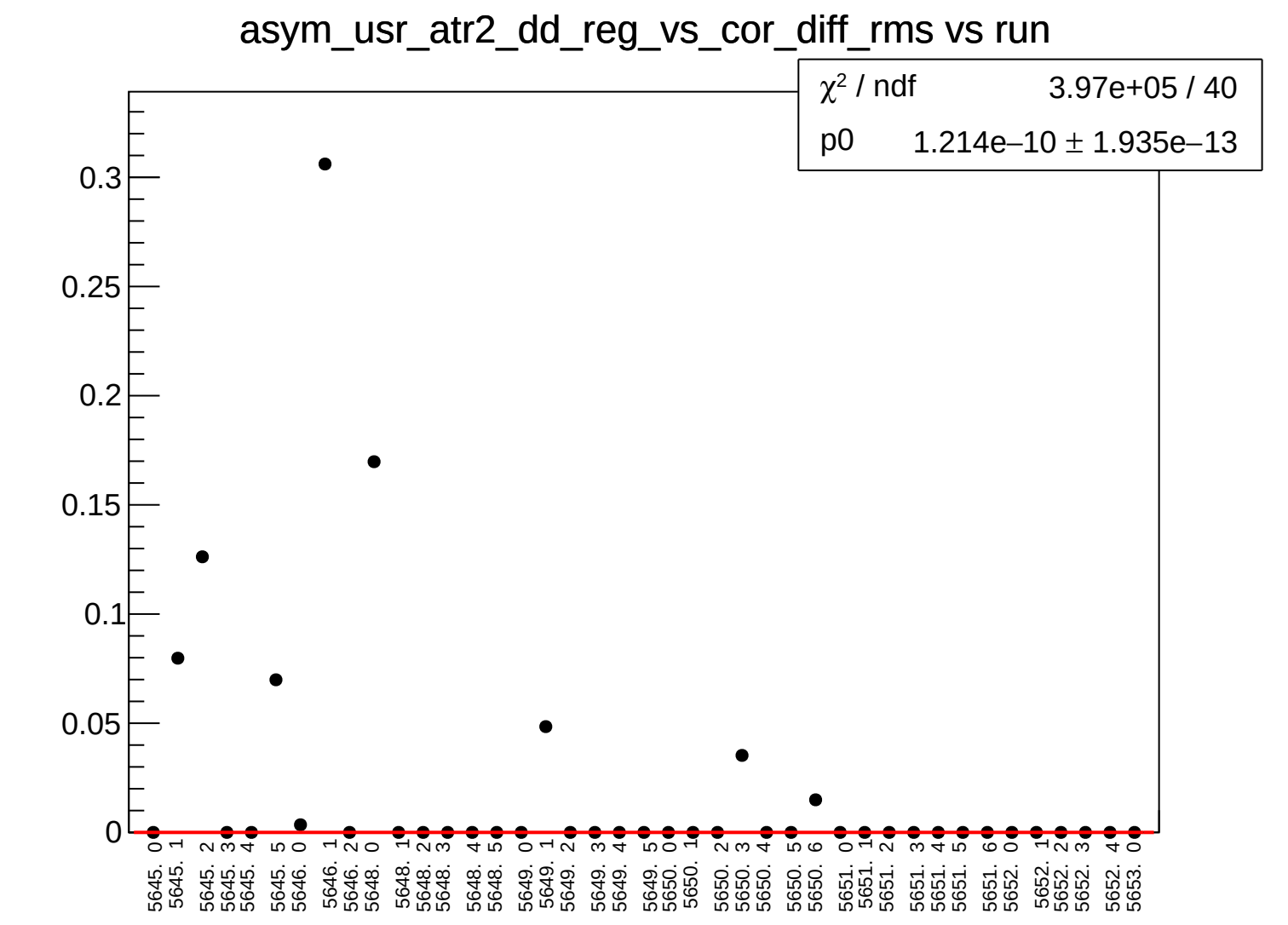

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 41.05 / 40
p0 −3465 ± 4605
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 39.94
Std Dev 22.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

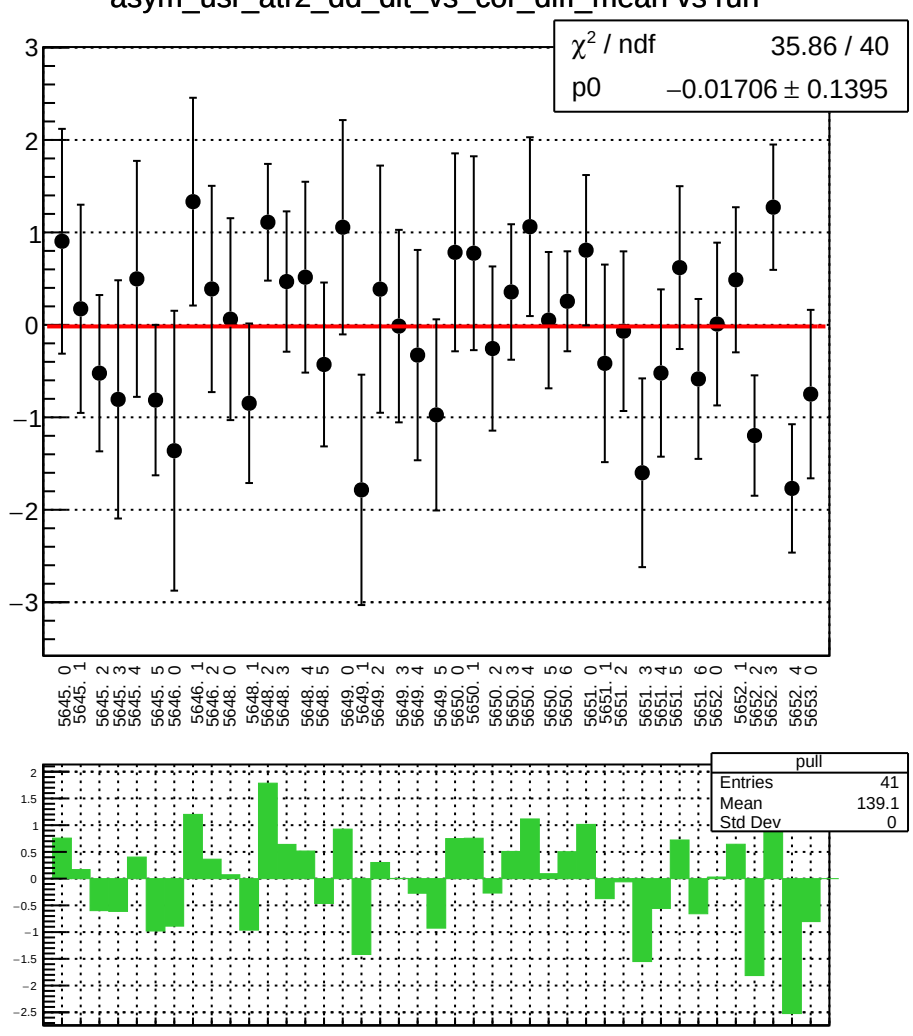

pull1D
Entries 41
Mean 0.02579
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

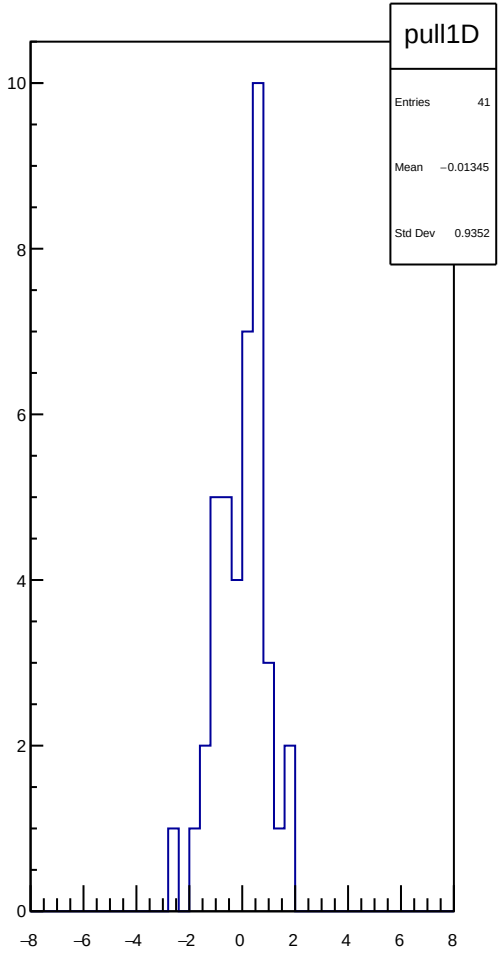

asym_usr_atr2_dd_rms vs run
χ² / ndf 3643 / 40
p0 2888 ± 3.256
3600
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

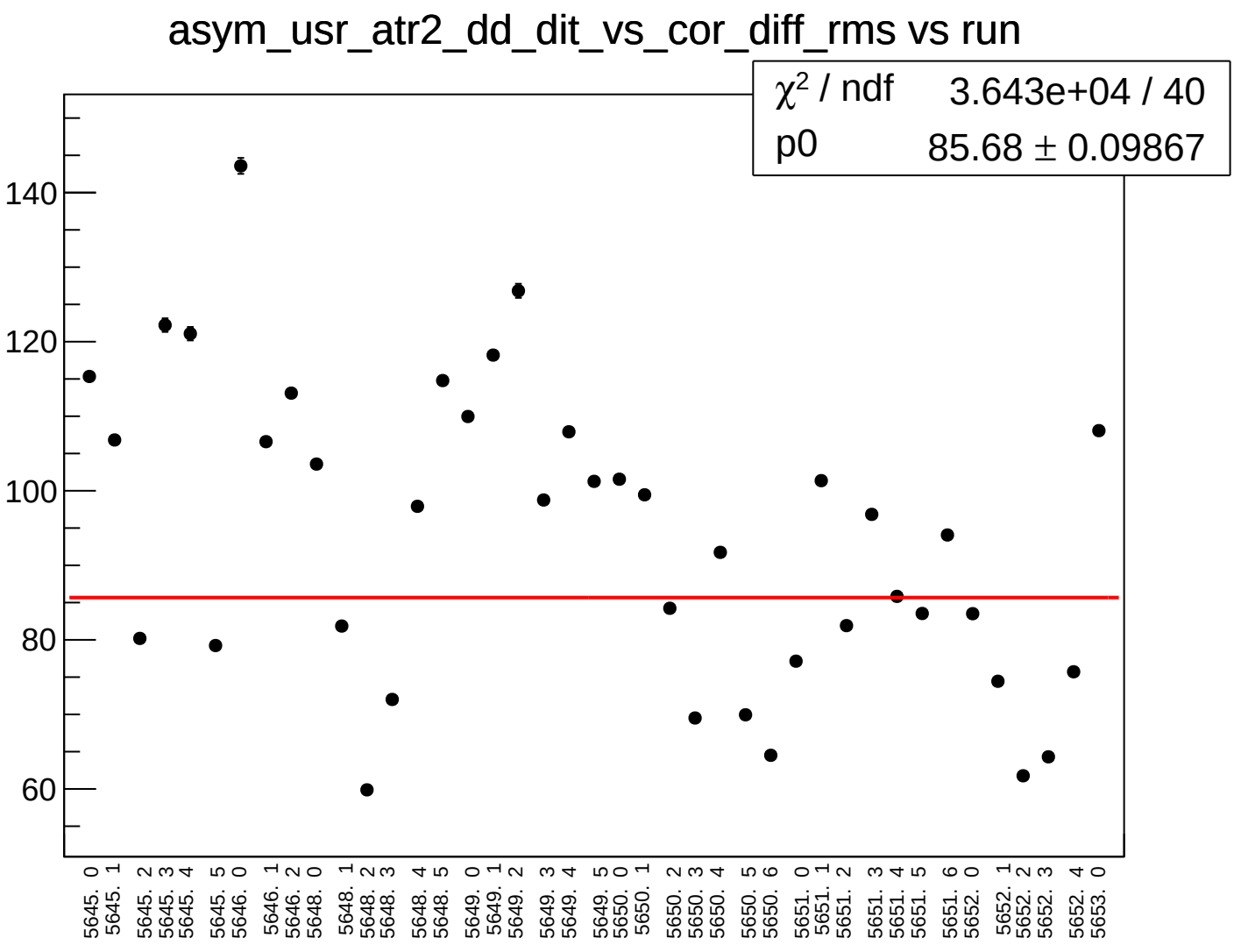

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.56 / 40
p0 2.834e−13 ± 2.737e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.79
Std Dev 11.92
1.5
1
0.5
0
−0.5
−1
−1.5

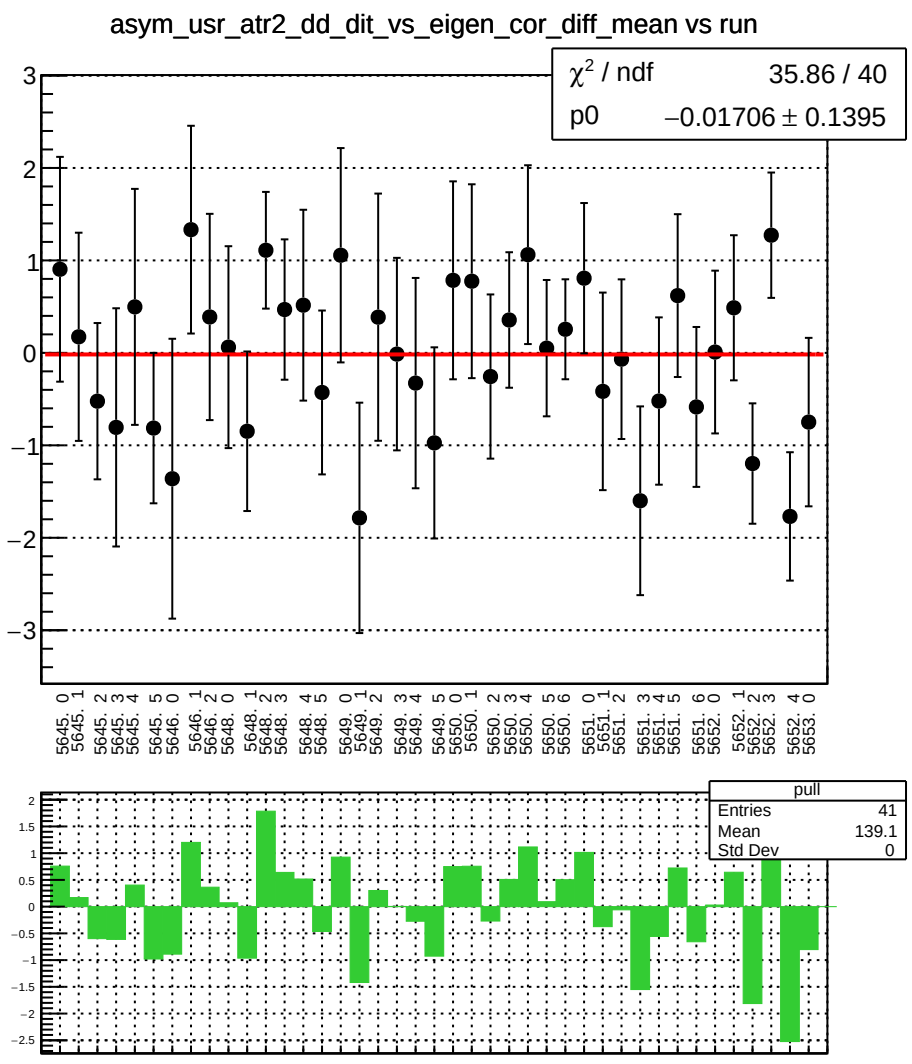

pull1D
Entries 41
Mean 0.1262
Std Dev 0.7475
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

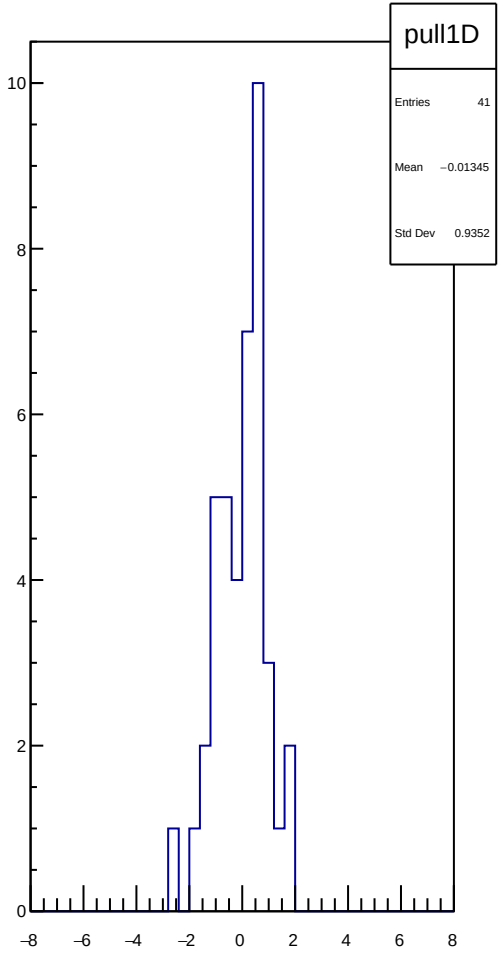

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.97e+05 / 40
p0 1.214e−10 ± 1.935e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

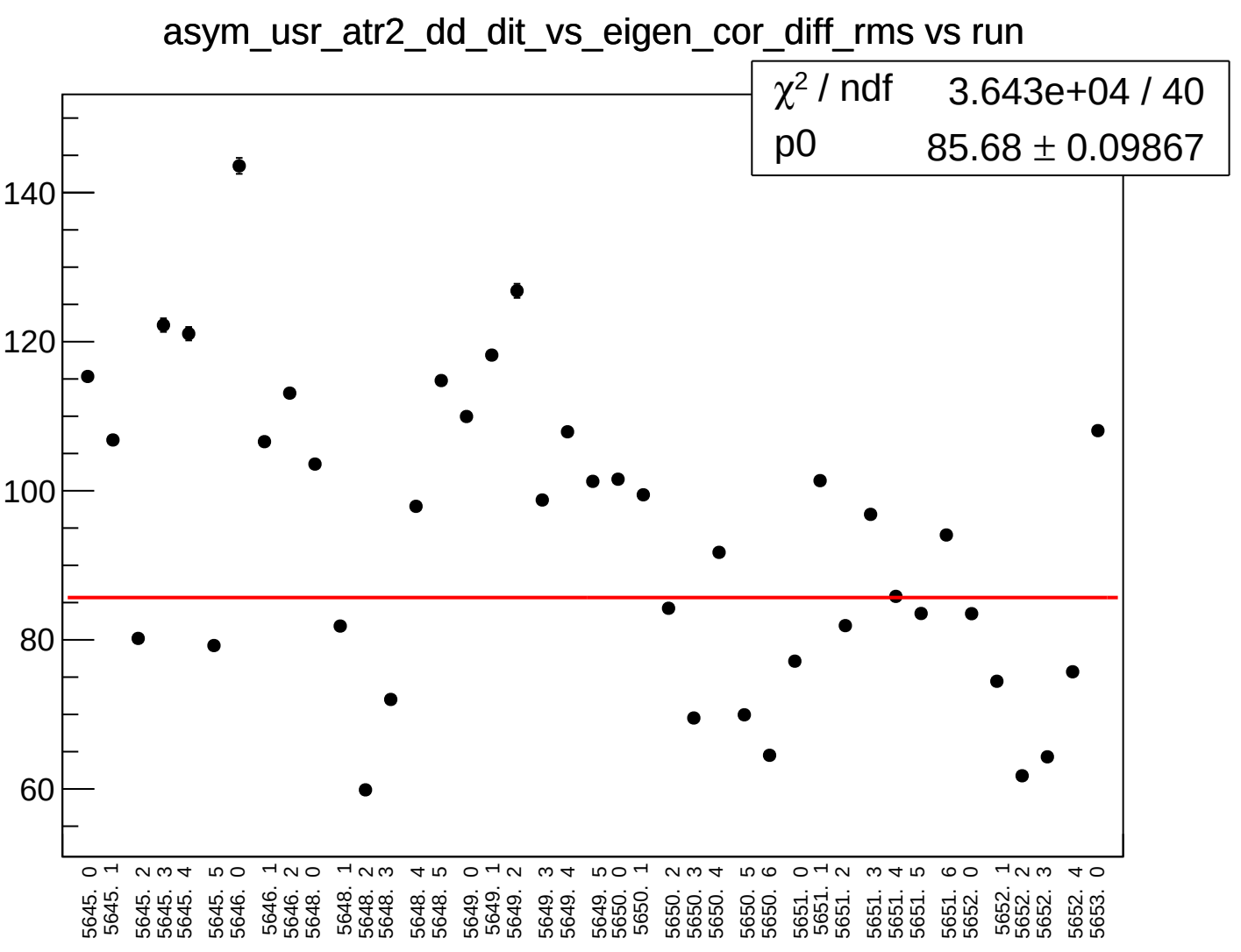

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.86 / 40
p0 −0.01706 ± 0.1395
pull
Entries 41
Mean 139.1
Std Dev 0

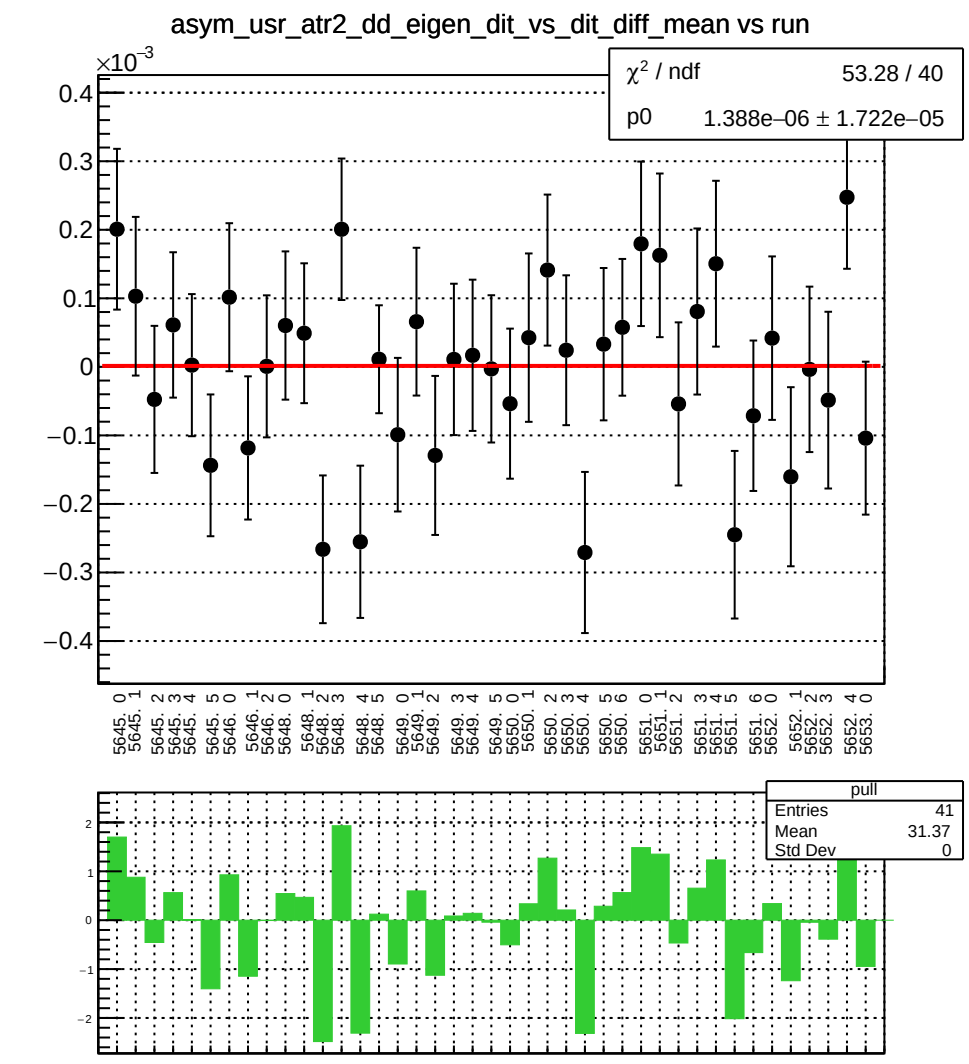

pull1D
Entries 41
Mean −0.01345
Std Dev 0.9352

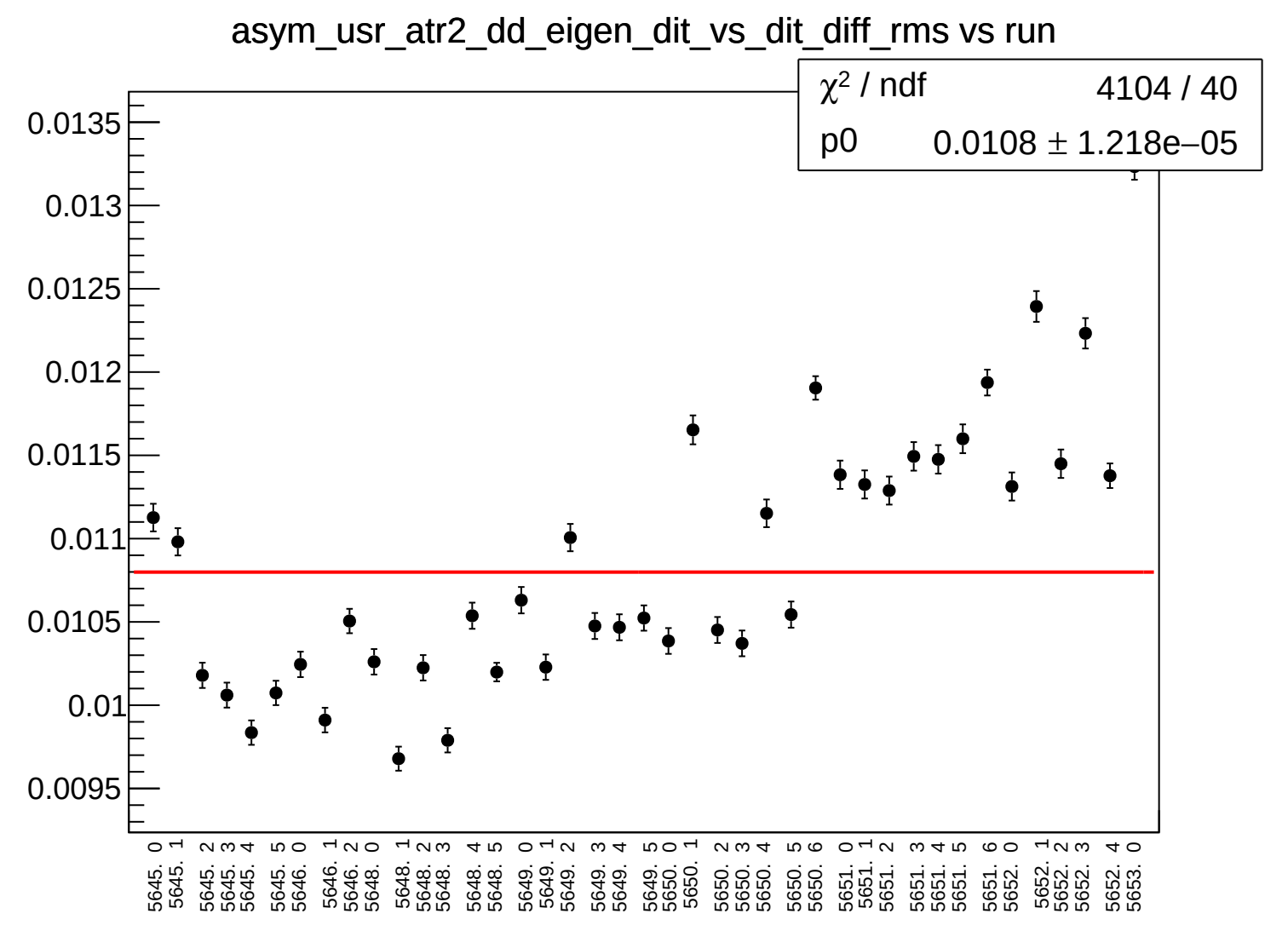

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 40
p0 85.68 ± 0.09867
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

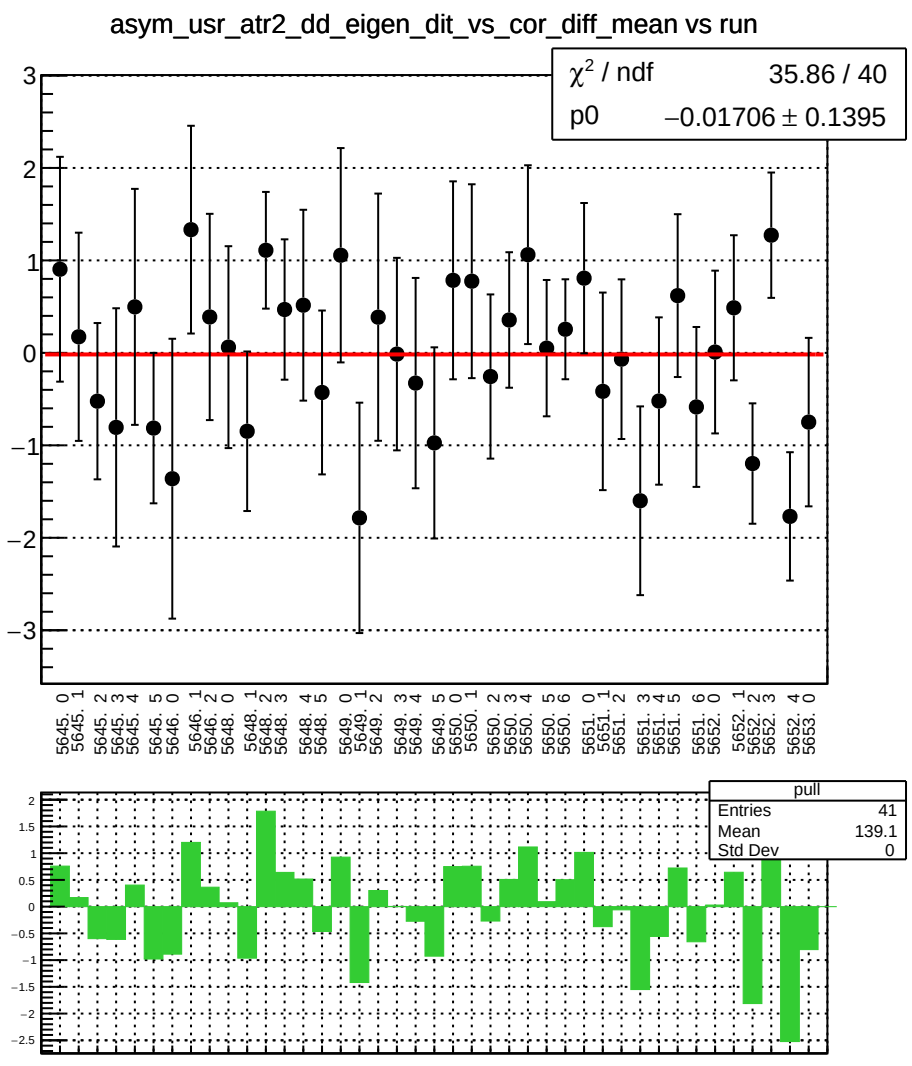

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.86 / 40
p0 −0.01706 ± 0.1395
pull
Entries 41
Mean 139.1
Std Dev 0

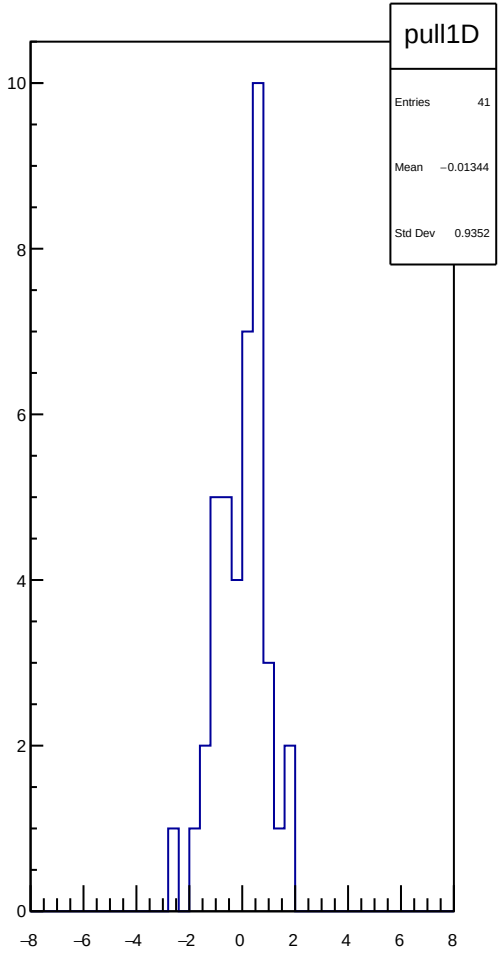

pull1D
Entries 41
Mean −0.01345
Std Dev 0.9352

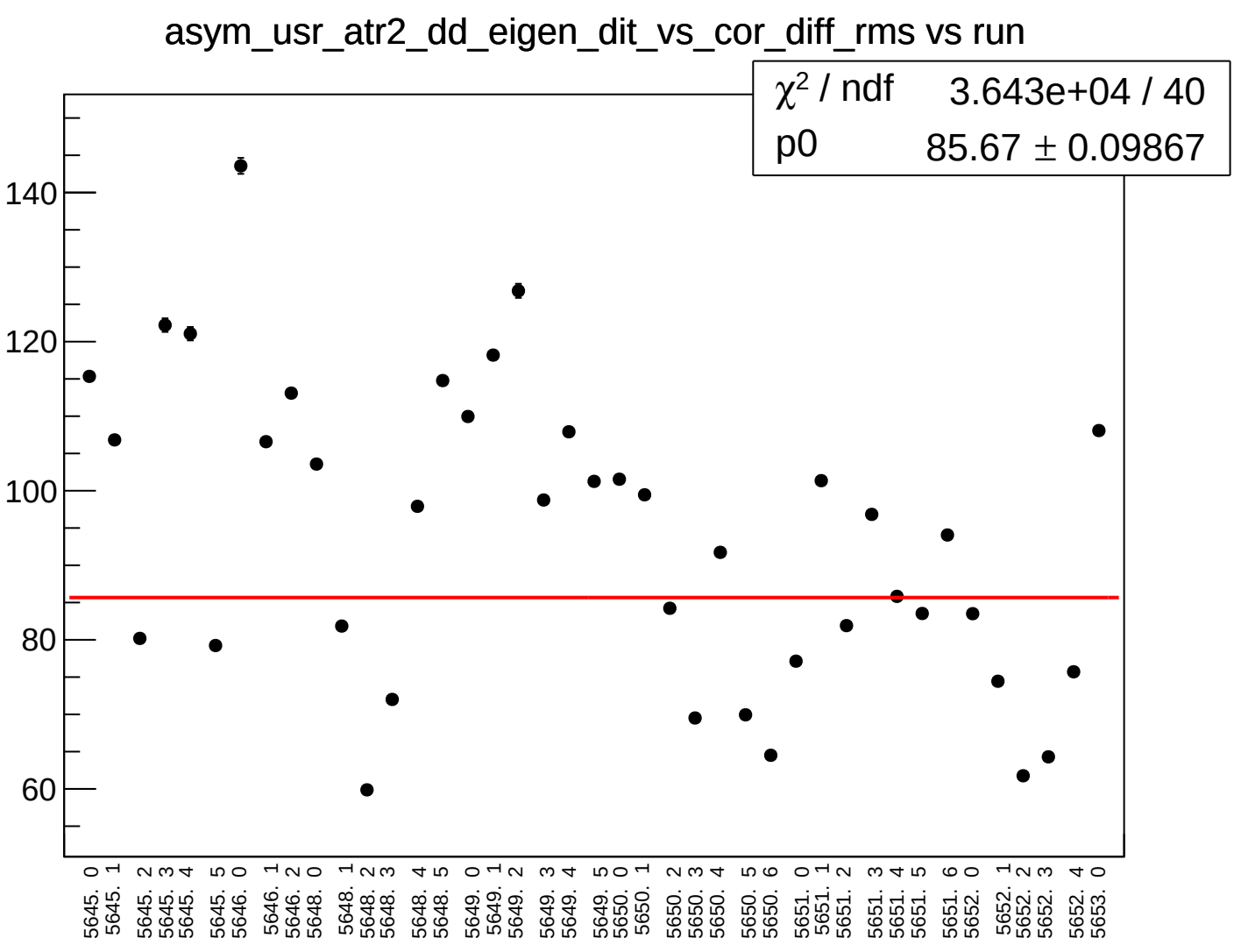

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 40
p0 85.68 ± 0.09867
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

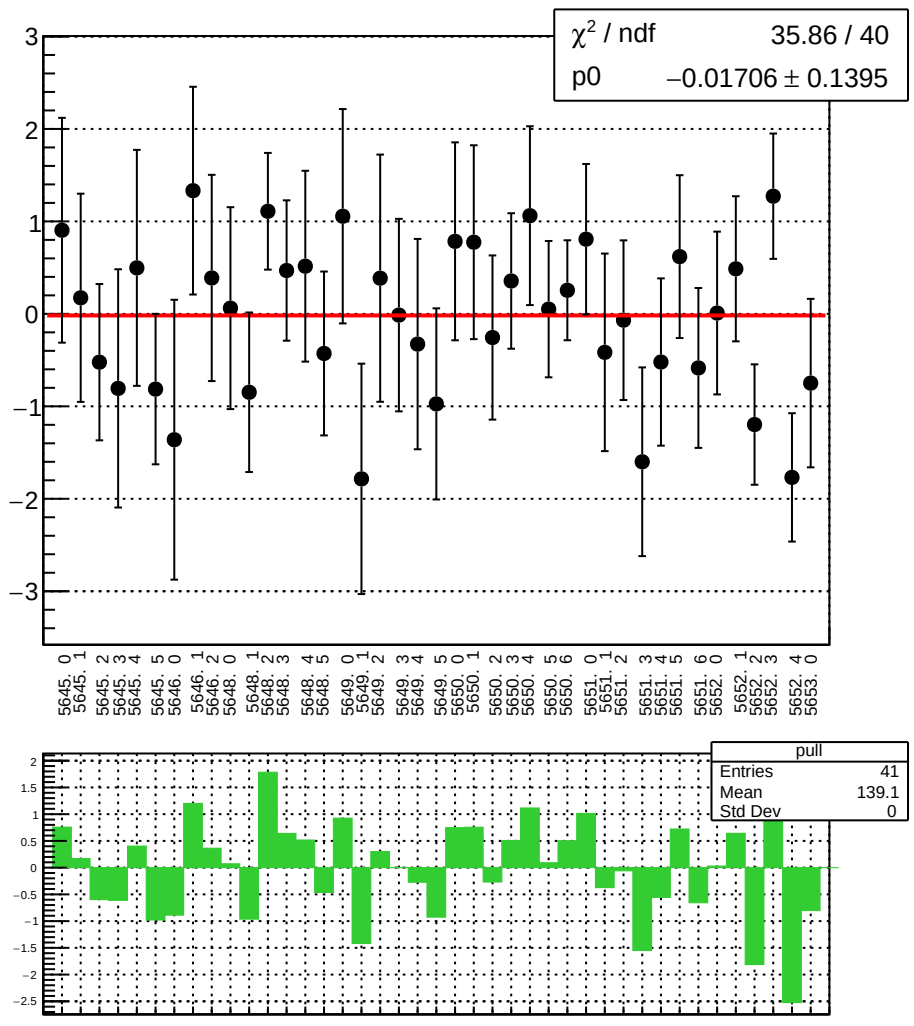

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.28 / 40
p0 1.388e−06 ± 1.722e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 31.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009216
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

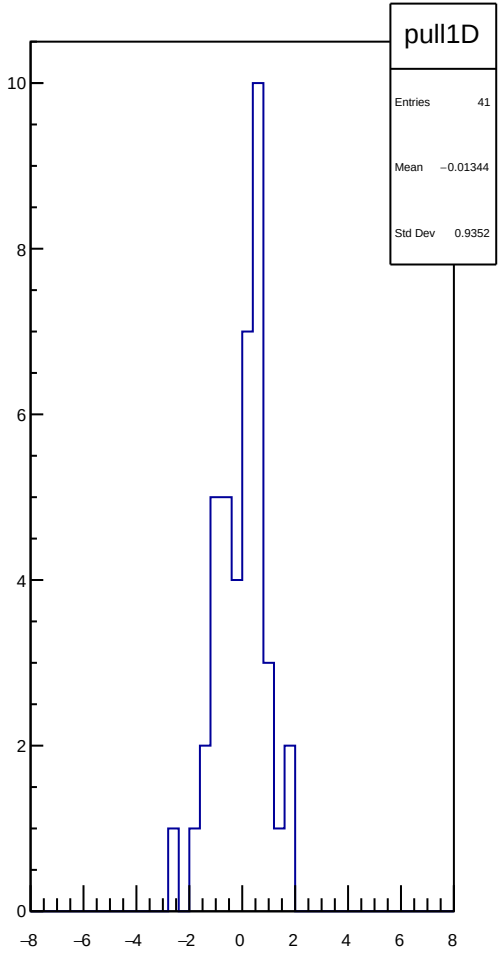

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4104 / 40
p0 0.0108 ± 1.218e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

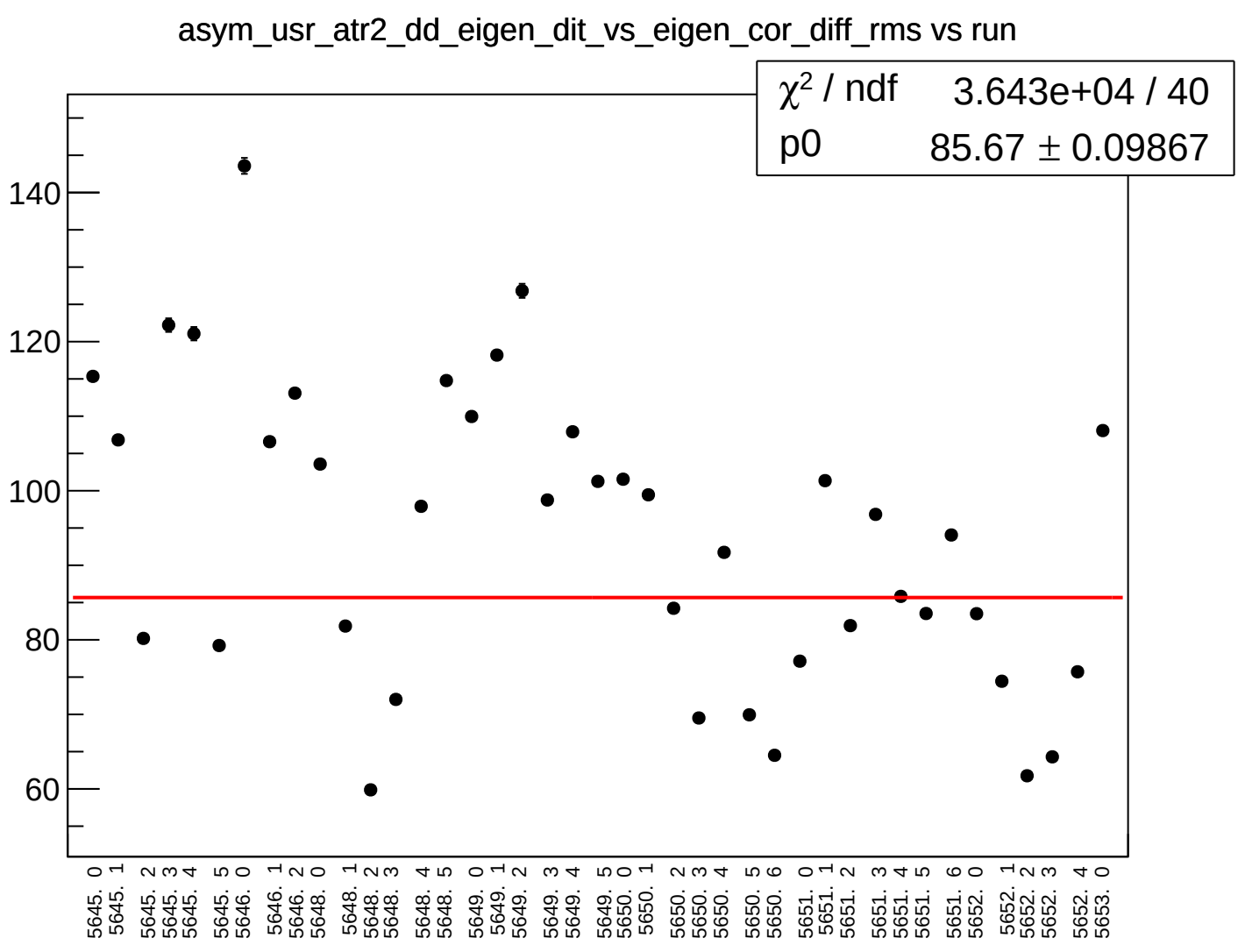

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.86 / 40
p0 −0.01706 ± 0.1395
pull
Entries 41
Mean 139.1
Std Dev 0

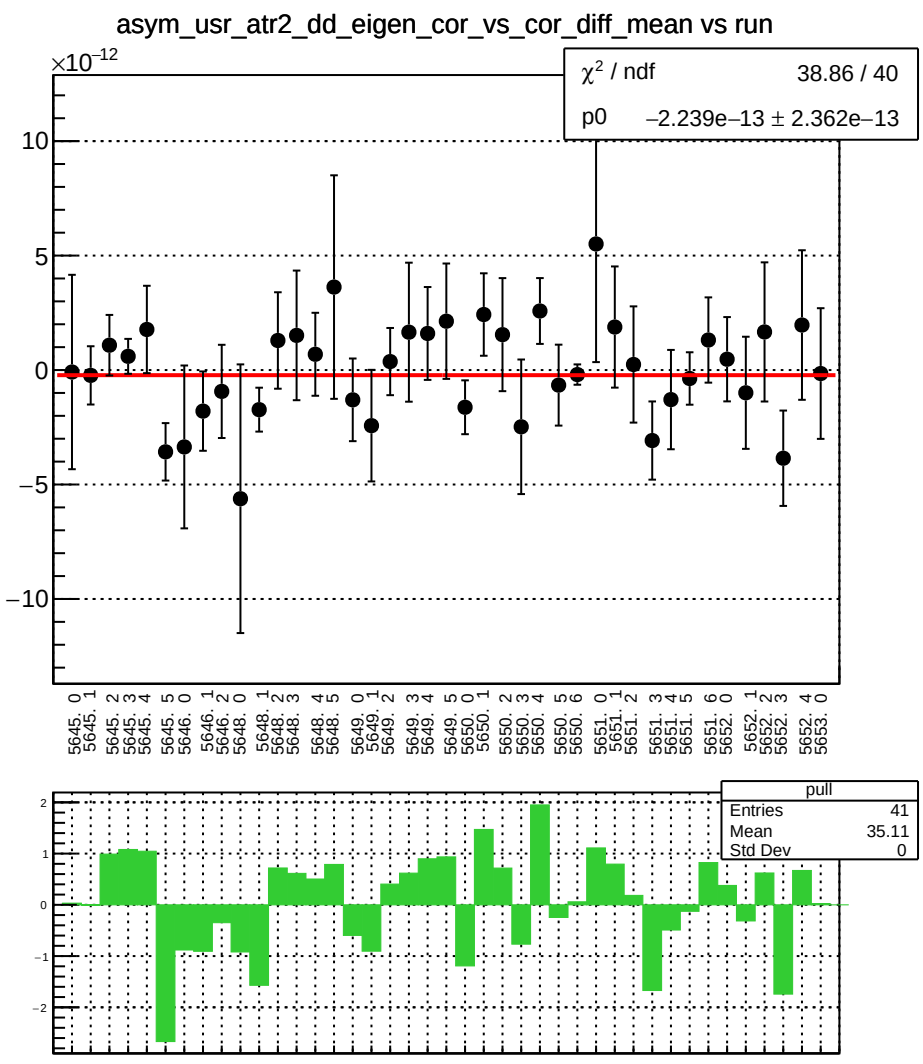

pull1D
Entries 41
Mean −0.01344
Std Dev 0.9352

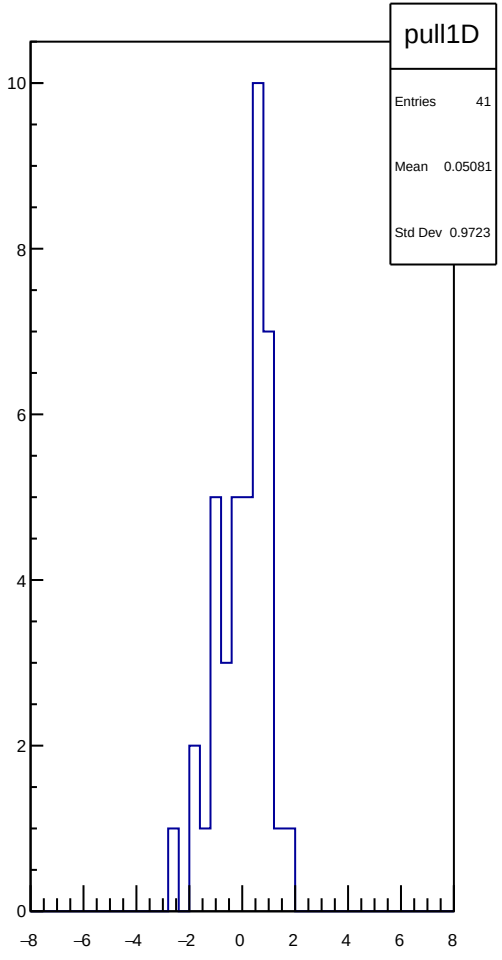

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 40
p0 85.67 ± 0.09867
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

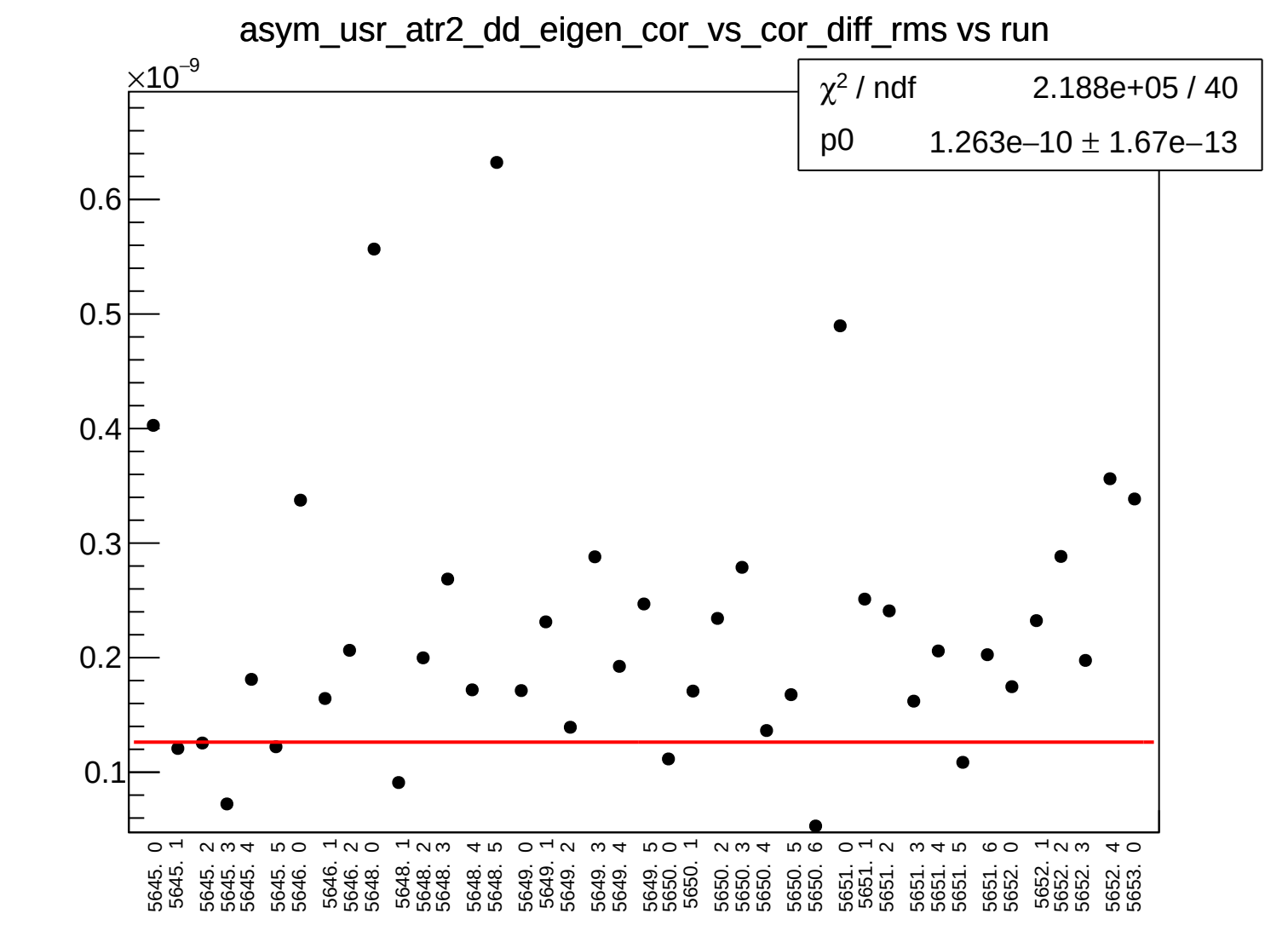

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.86 / 40
p0 −0.01706 ± 0.1395
pull
Entries 41
Mean 139.1
Std Dev 0

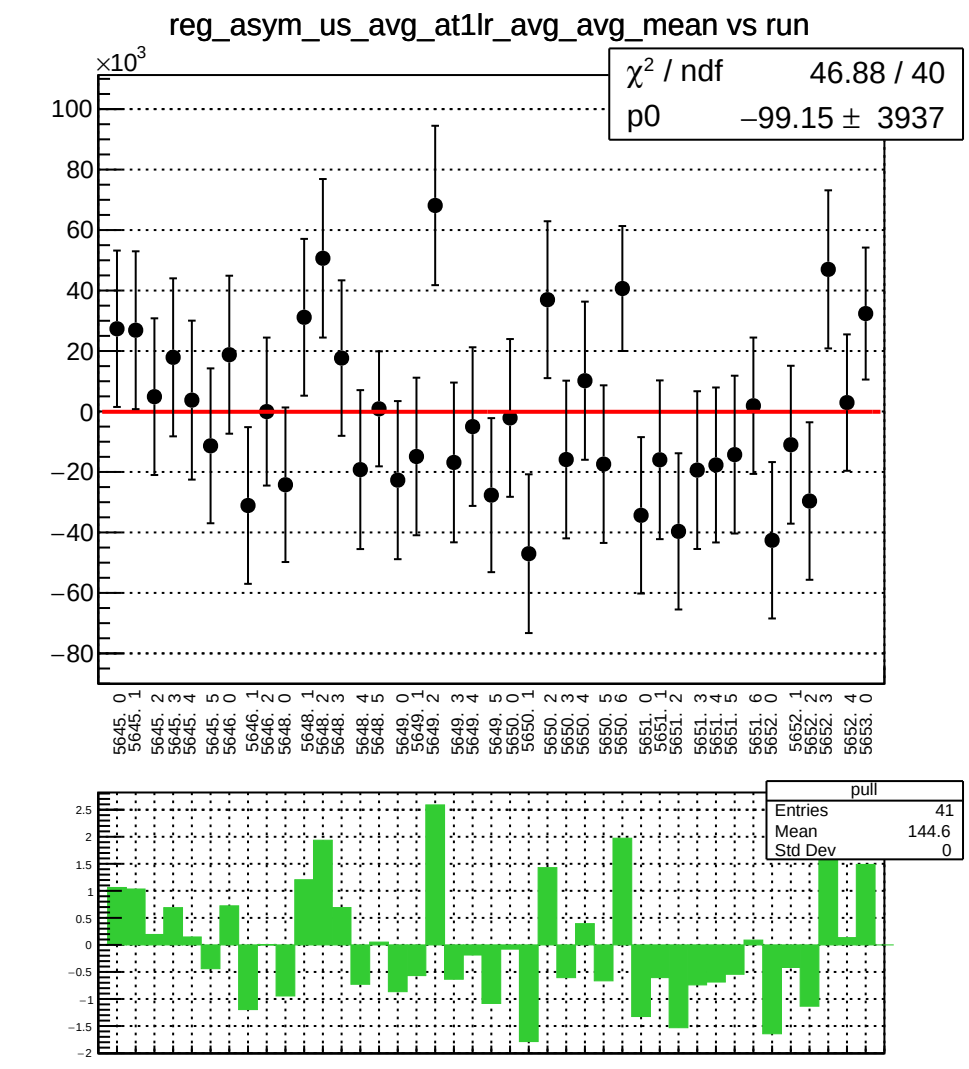

pull1D
Entries 41
Mean −0.01344
Std Dev 0.9352

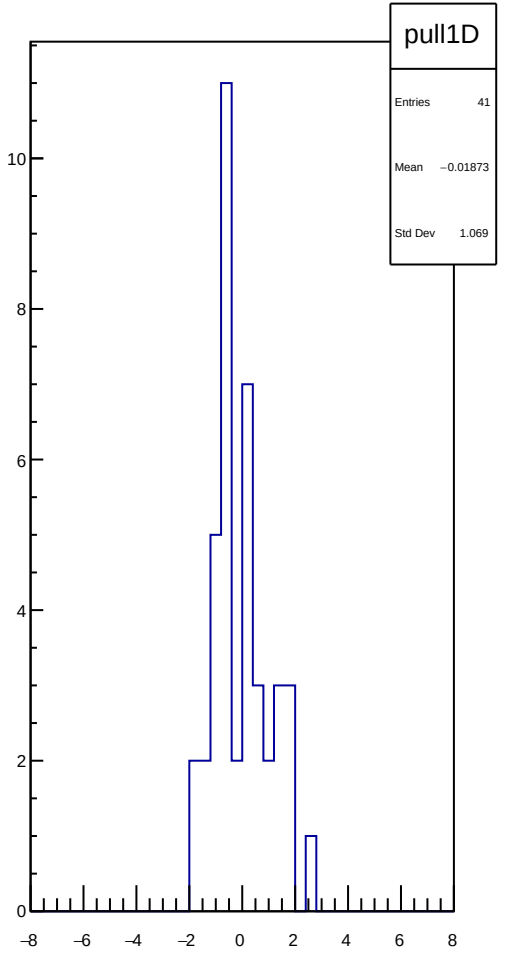

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.643e+04 / 40
p0 85.67 ± 0.09867
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

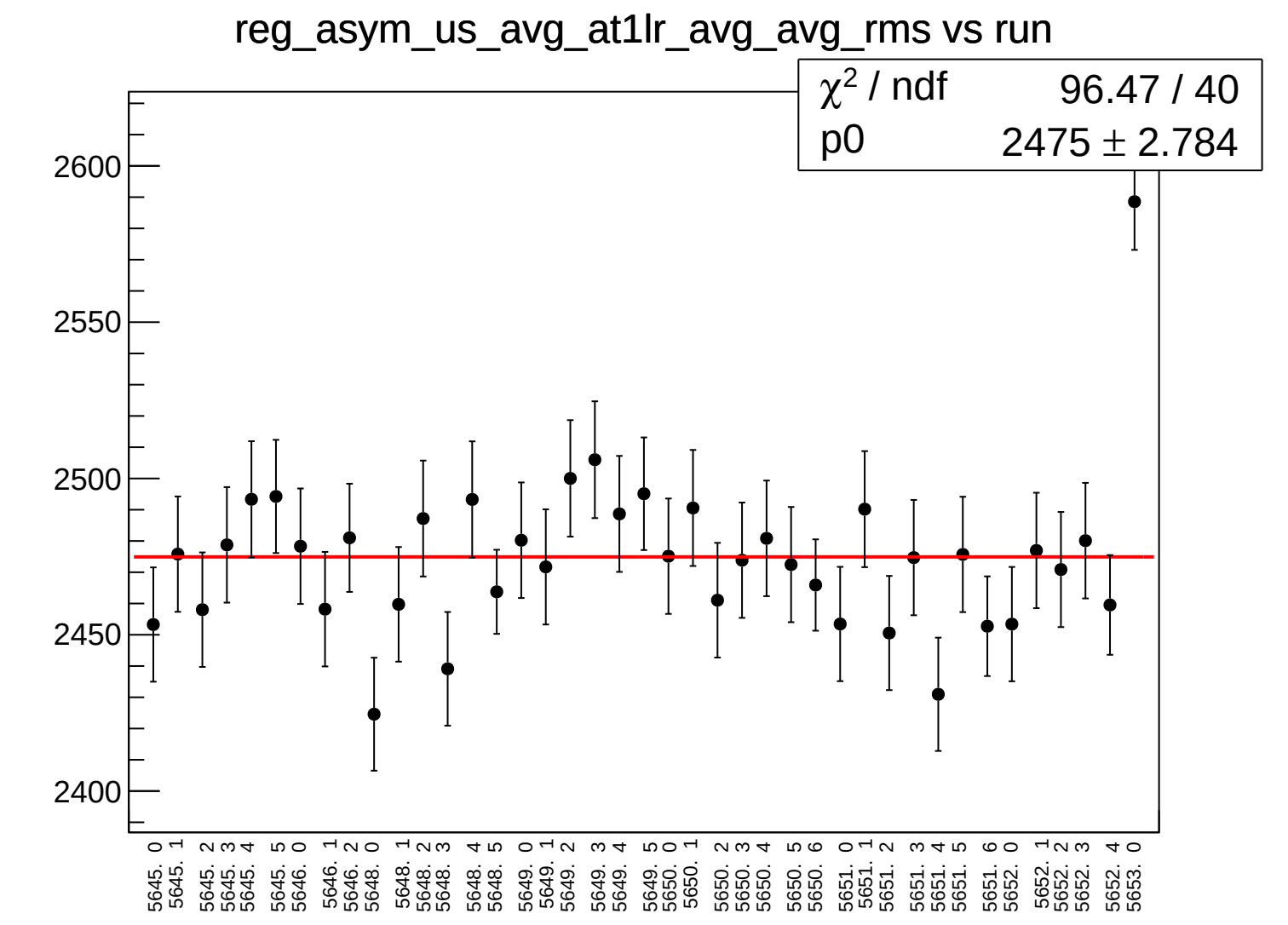

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.86 / 40
p0 −2.239e−13 ± 2.362e−13
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 35.11
Std Dev 0
2
1
0
−1
−2

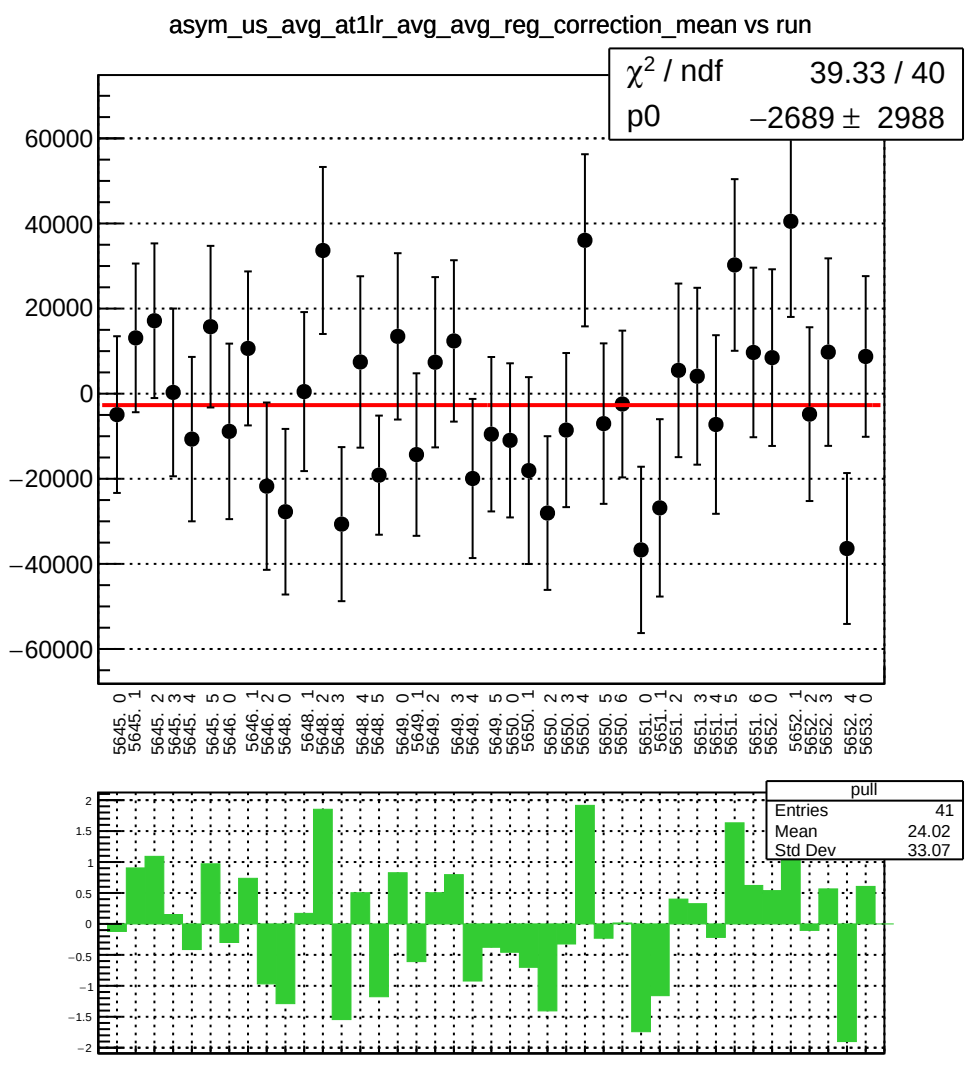

pull1D
Entries 41
Mean 0.05081
Std Dev 0.9723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

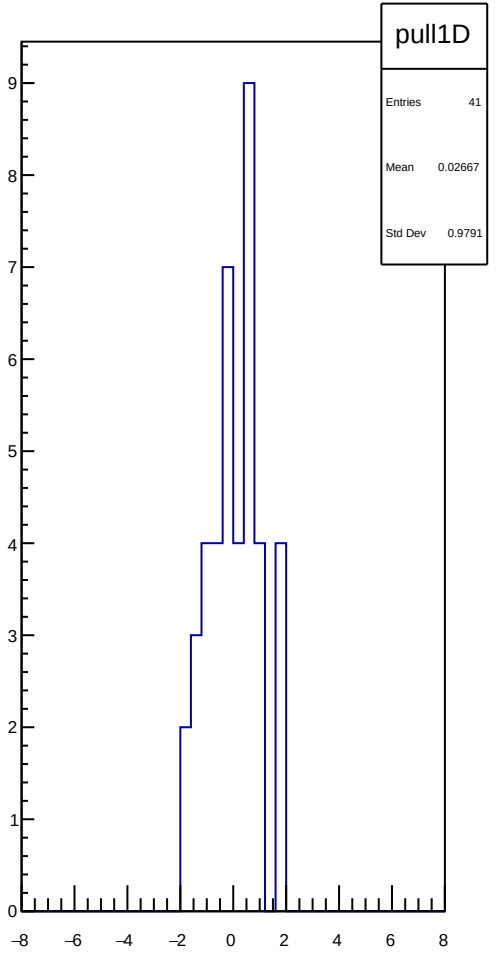

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.188e+05 / 40
p0 1.263e−10 ± 1.67e−13
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

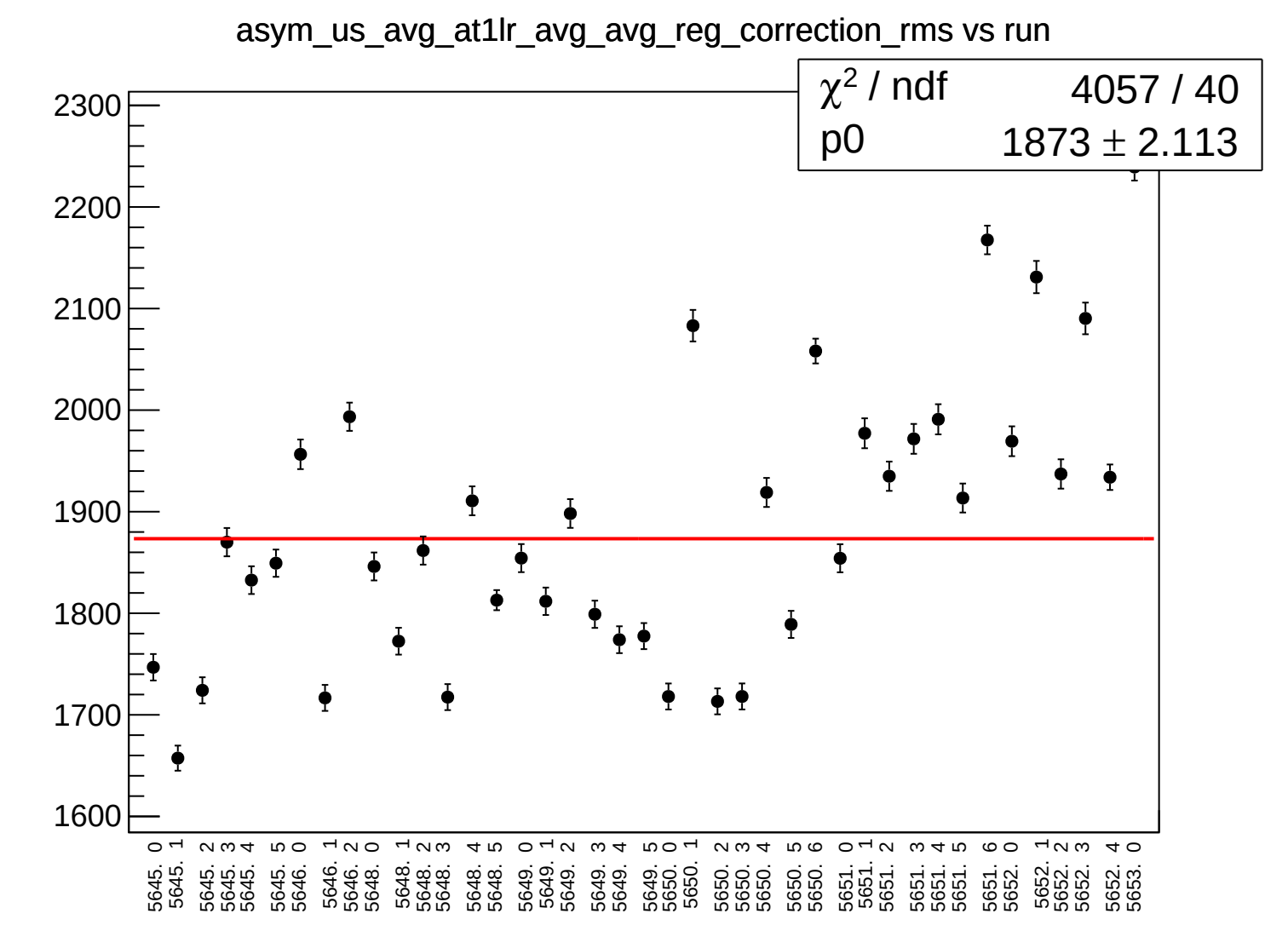

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.88 / 40
p0 −99.15 ± 3937
pull
Entries 41
Mean 144.6
Std Dev 0

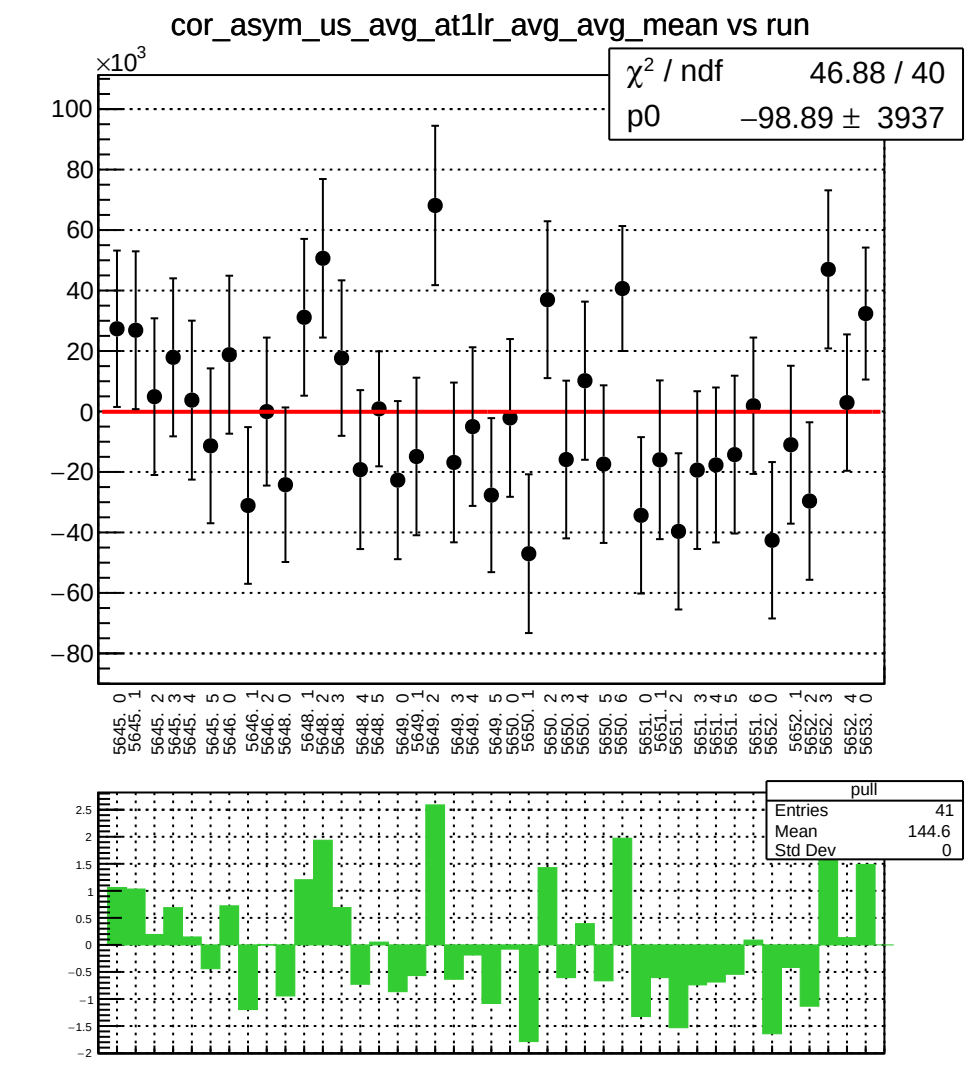

pull1D
Entries 41
Mean −0.01873
Std Dev 1.069

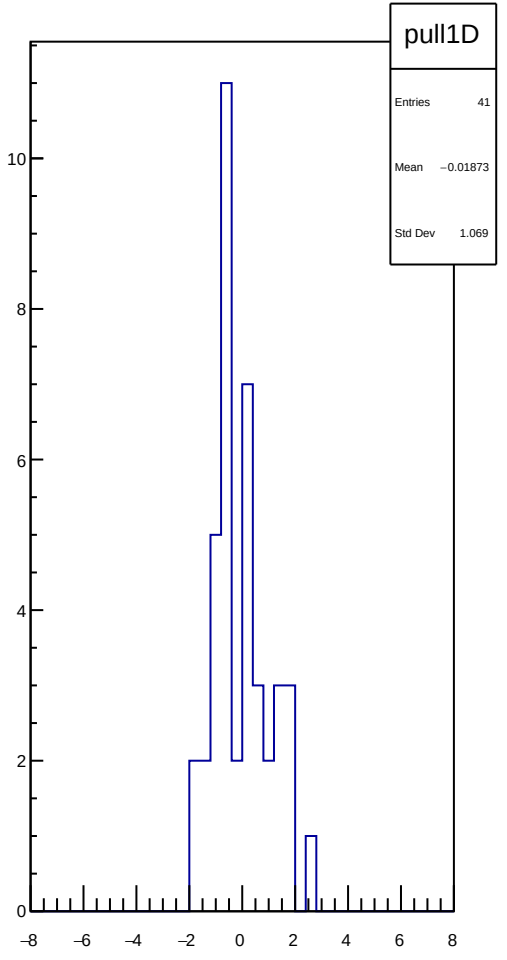

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.47 / 40
p0 2475 ± 2.784
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

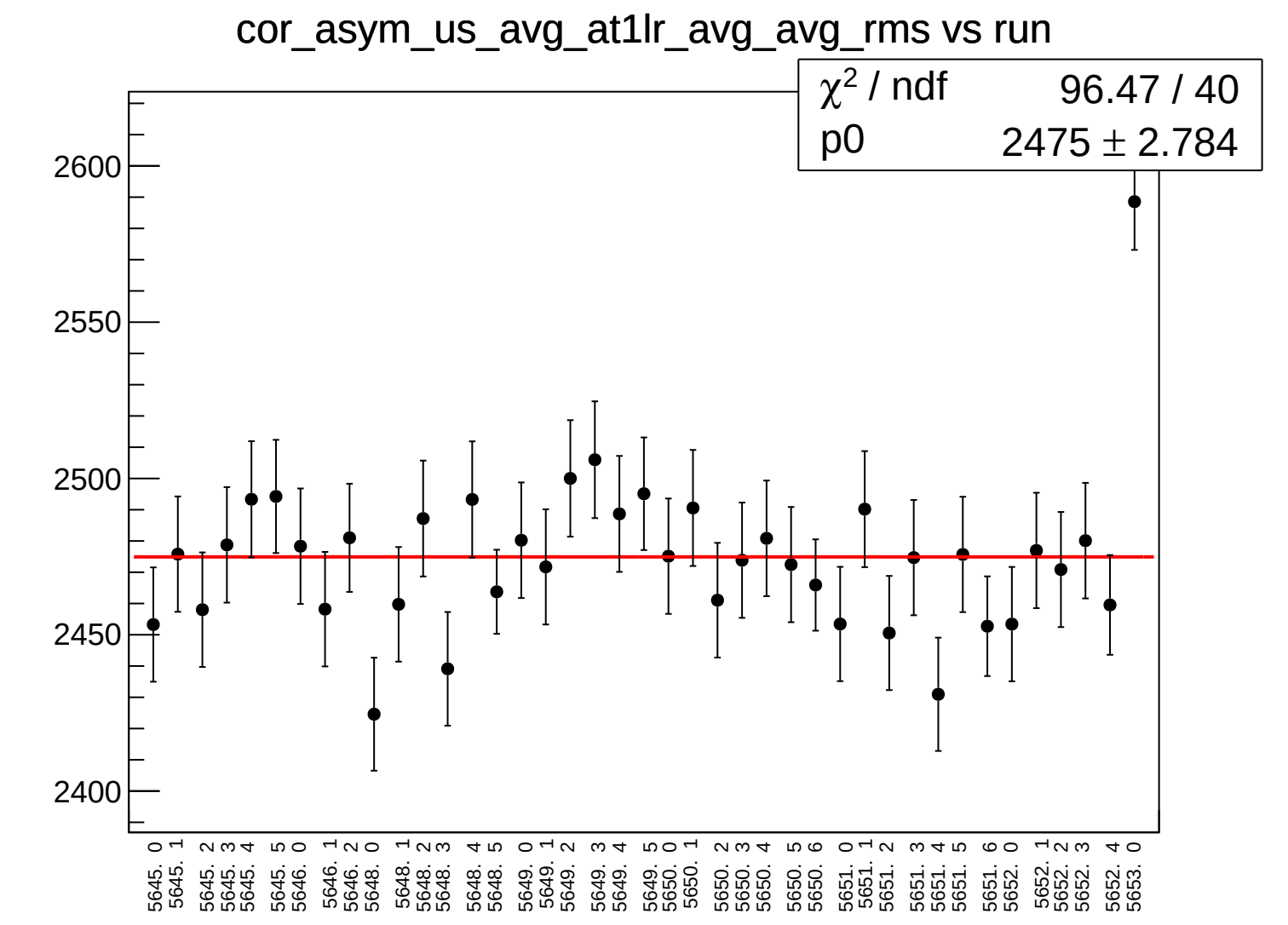

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 39.33 / 40
p0 −2689 ± 2988
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.02
Std Dev 33.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

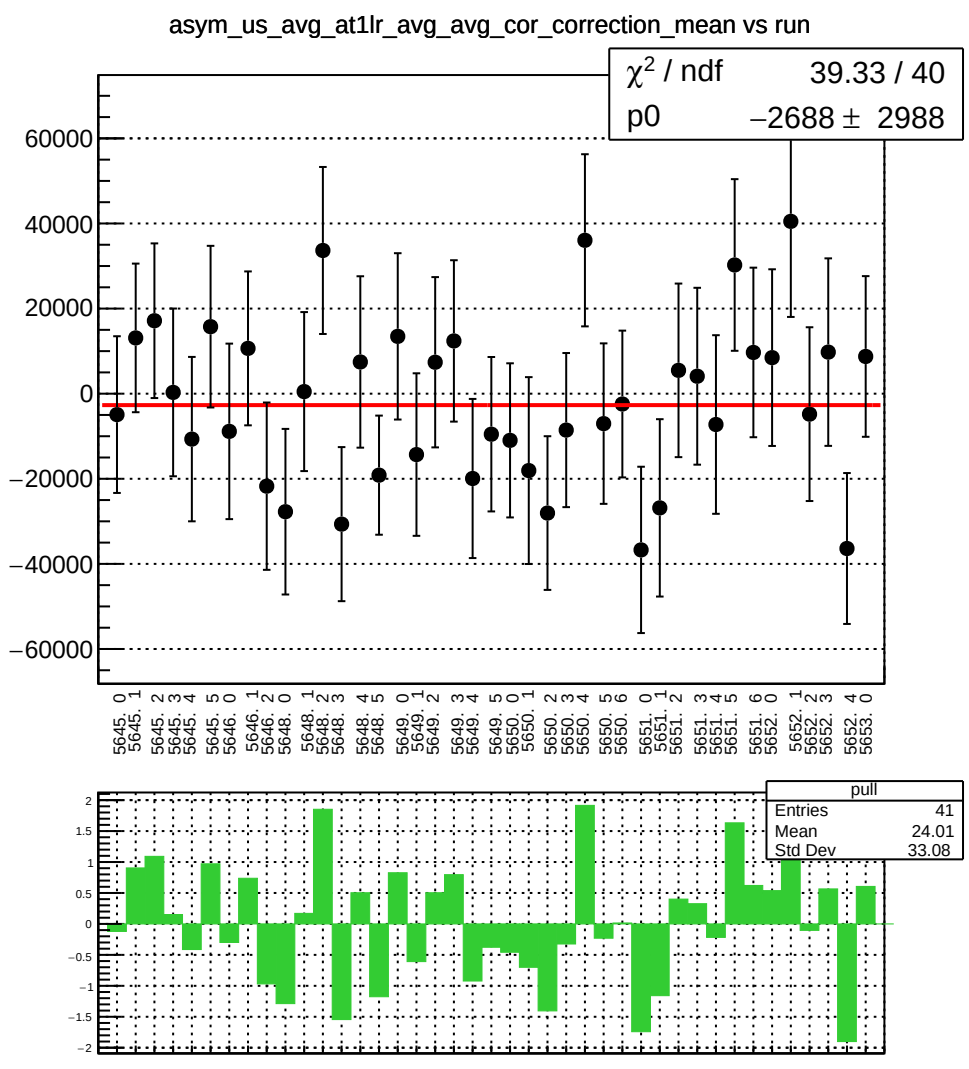

pull1D
Entries 41
Mean 0.02667
Std Dev 0.9791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

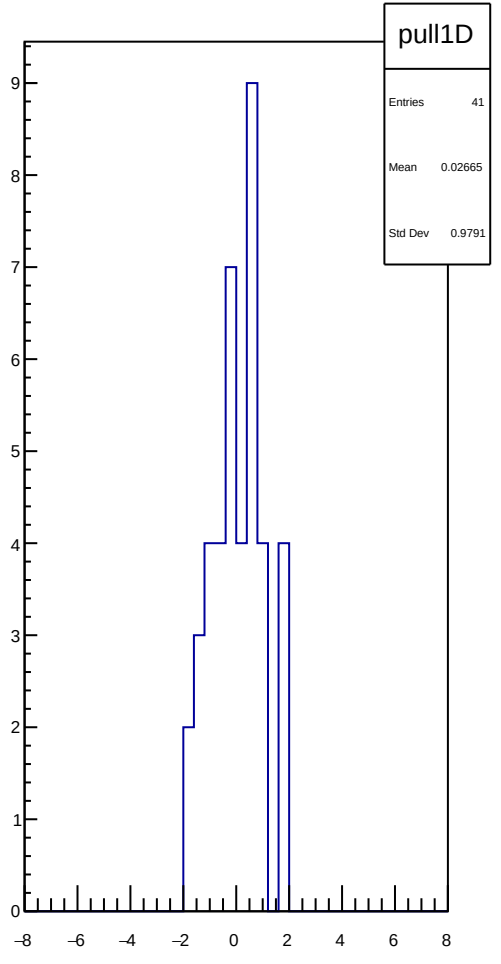

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4057 / 40
p0 1873 ± 2.113
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

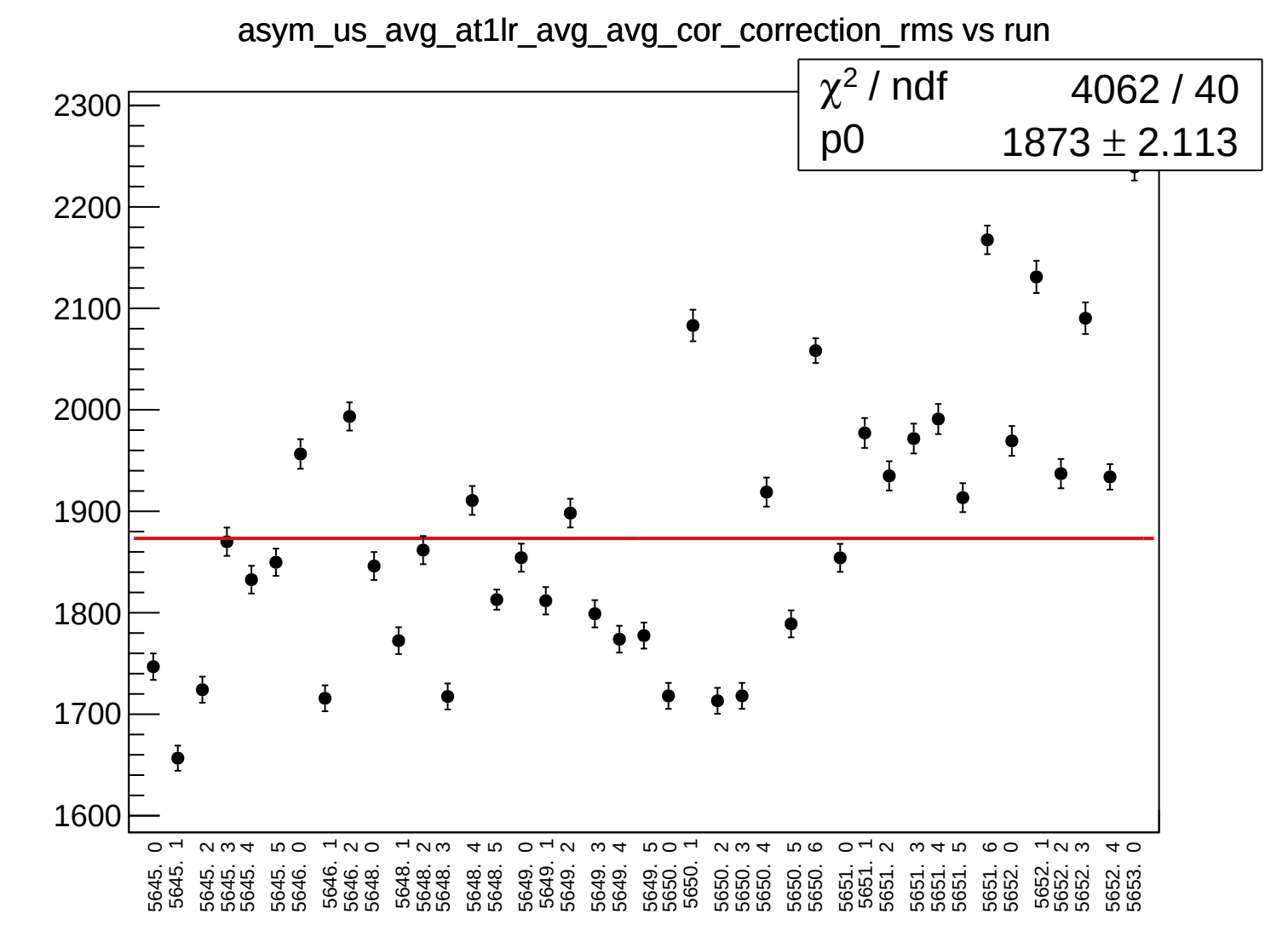

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.88 / 40
p0 −98.89 ± 3937
pull
Entries 41
Mean 144.6
Std Dev 0

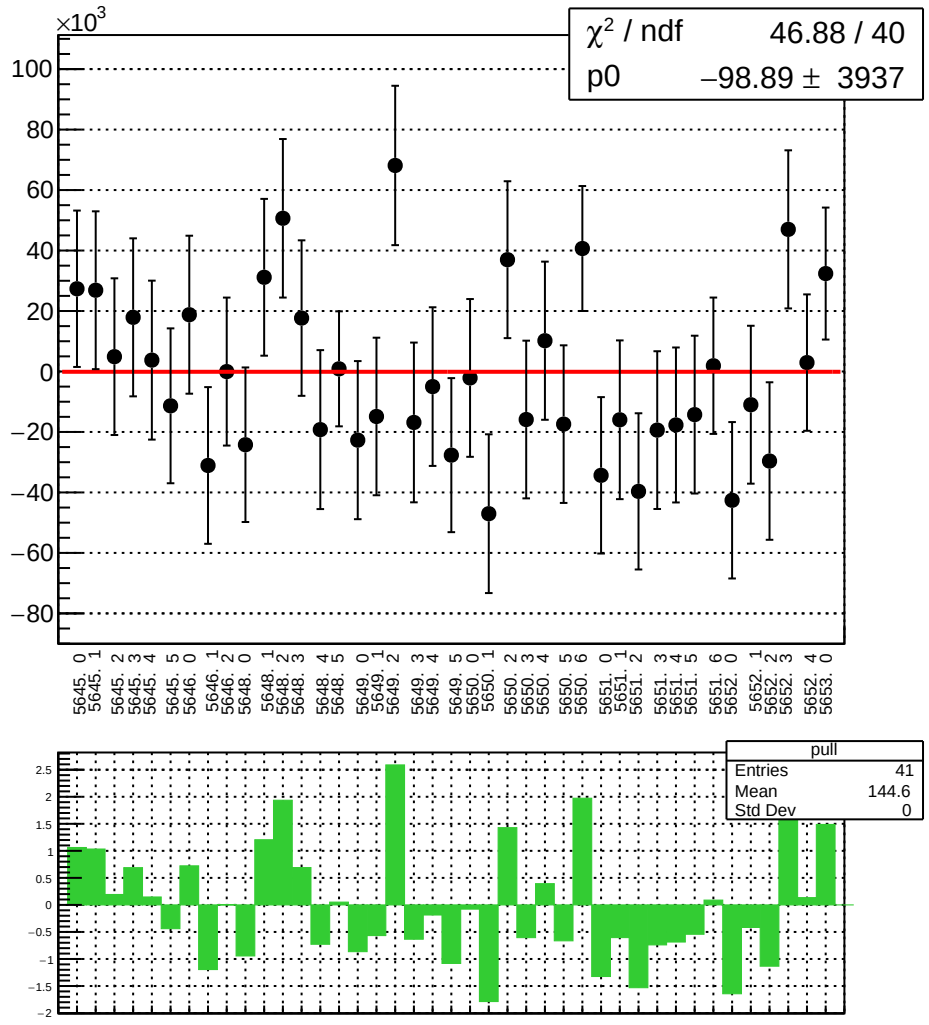

pull1D
Entries 41
Mean −0.01873
Std Dev 1.069

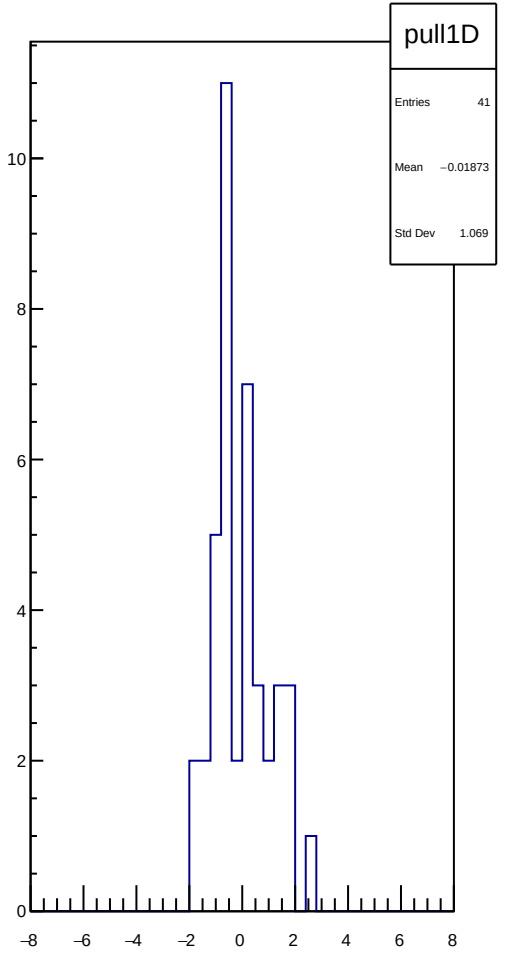

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.47 / 40
p0 2475 ± 2.784
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

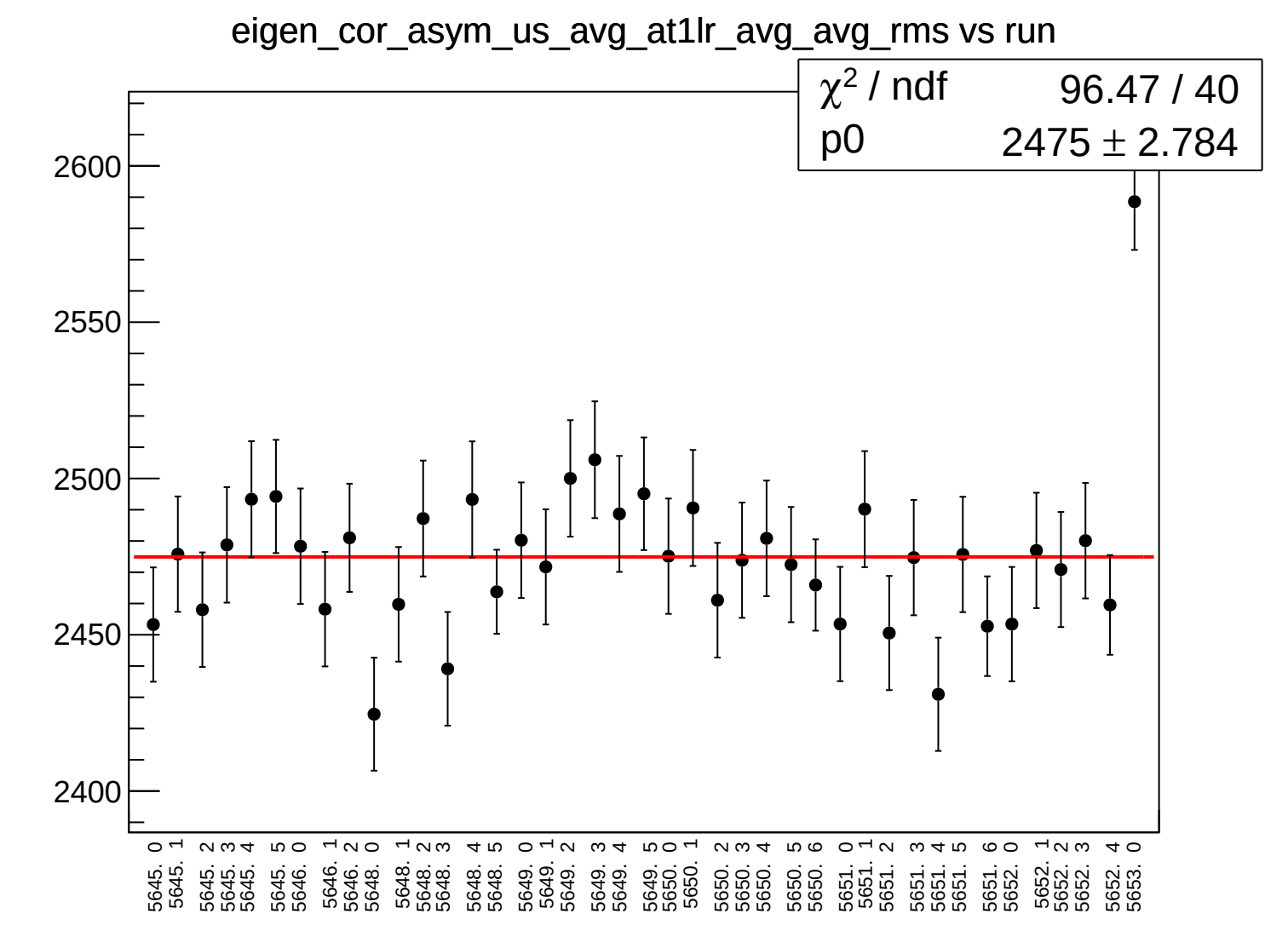

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 39.33 / 40
p0 −2688 ± 2988
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.01
Std Dev 33.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

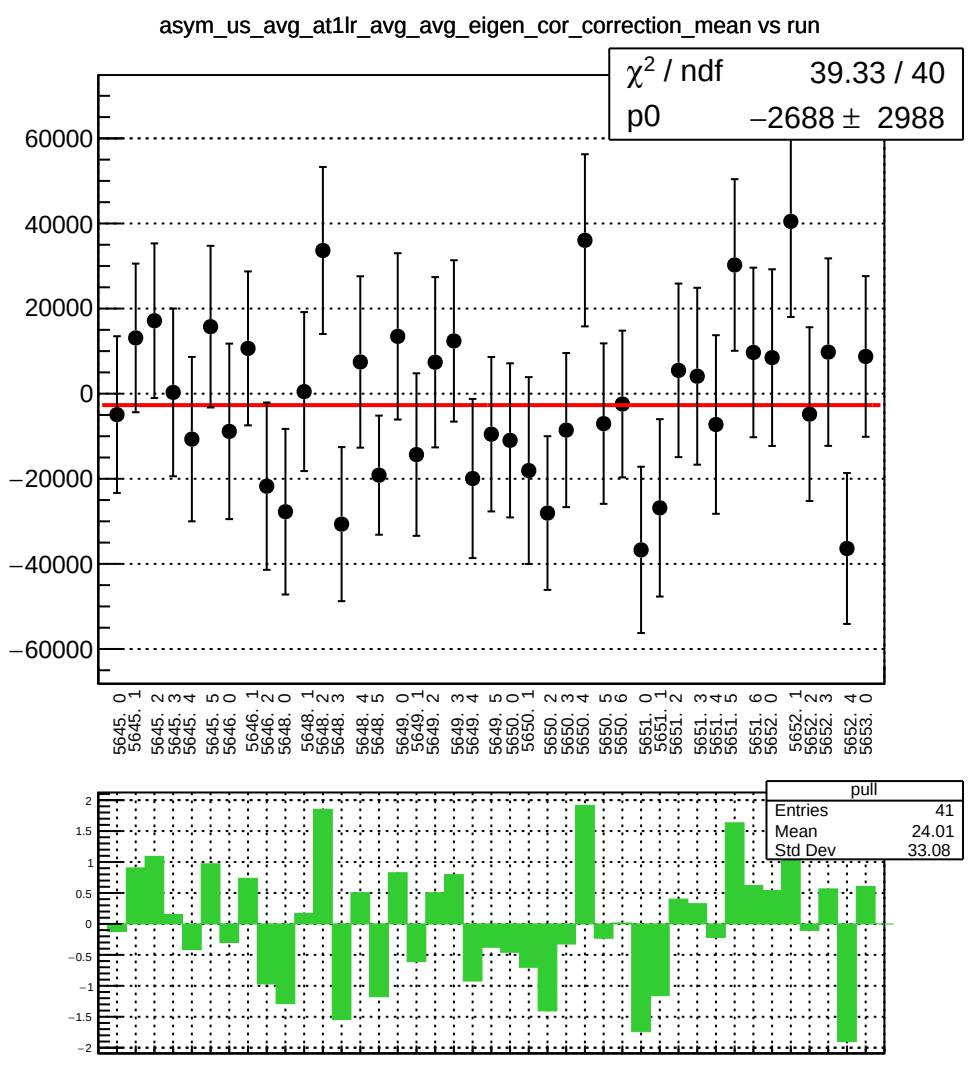

pull1D
Entries 41
Mean 0.02665
Std Dev 0.9791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

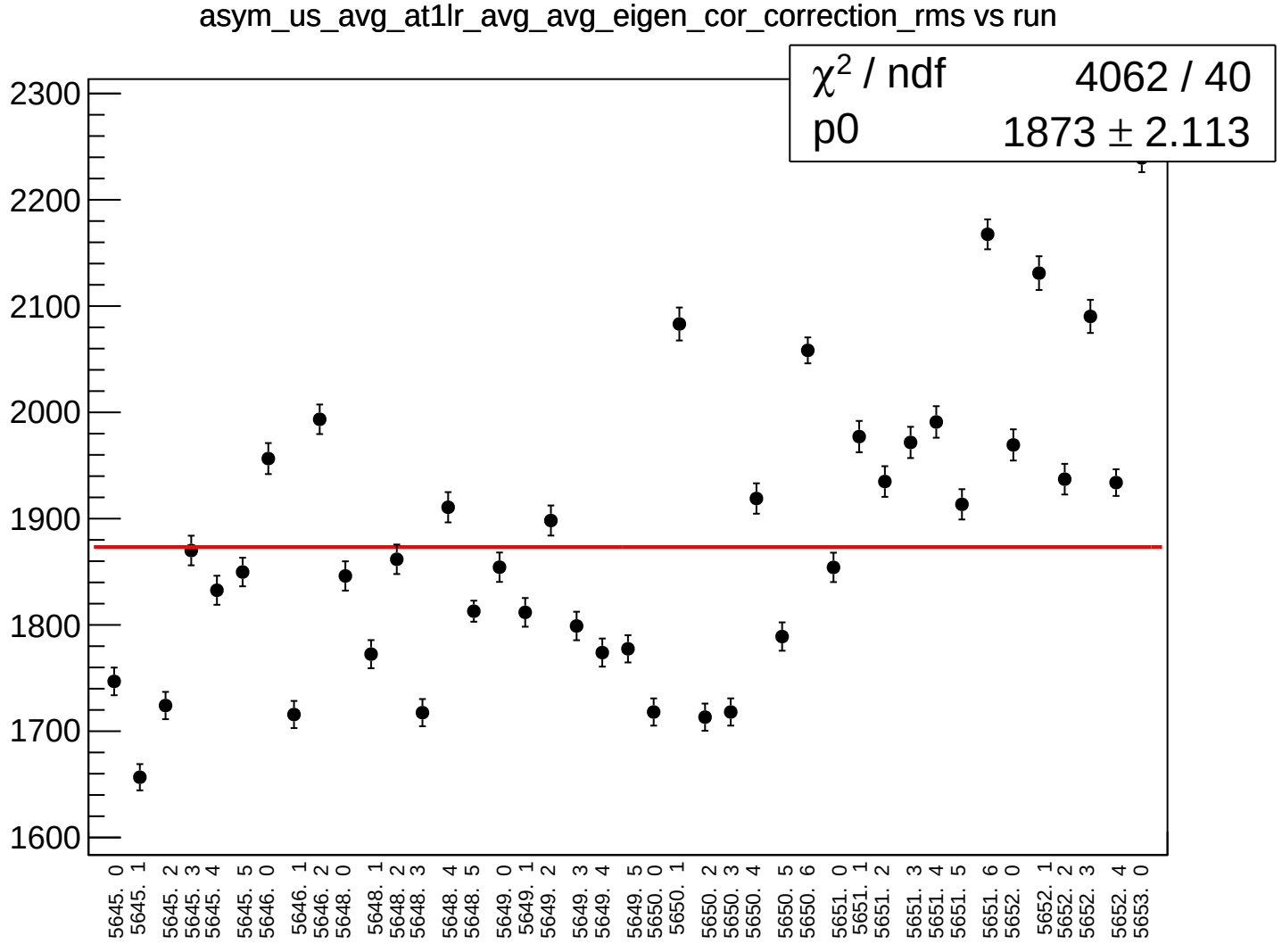

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4062 / 40
p0 1873 ± 2.113
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

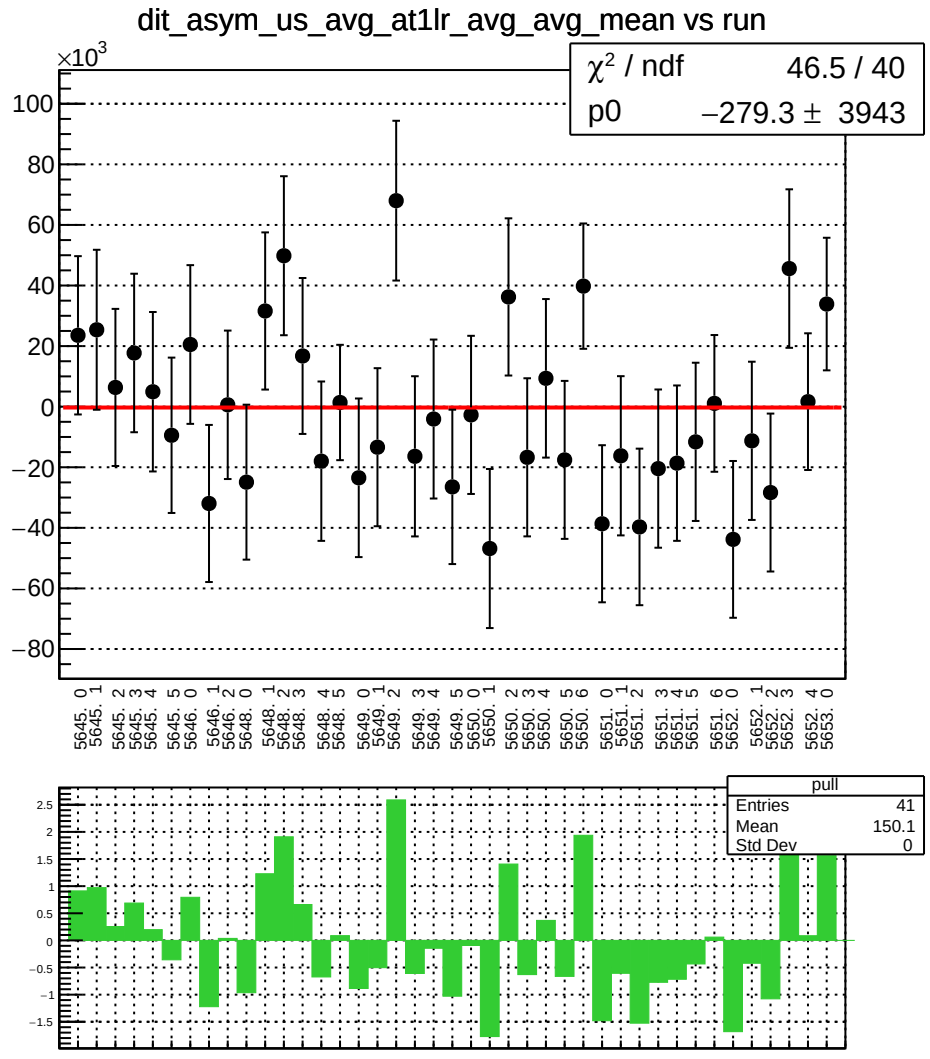

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.88 / 40
p0 −98.89 ± 3937
pull
Entries 41
Mean 144.6
Std Dev 0

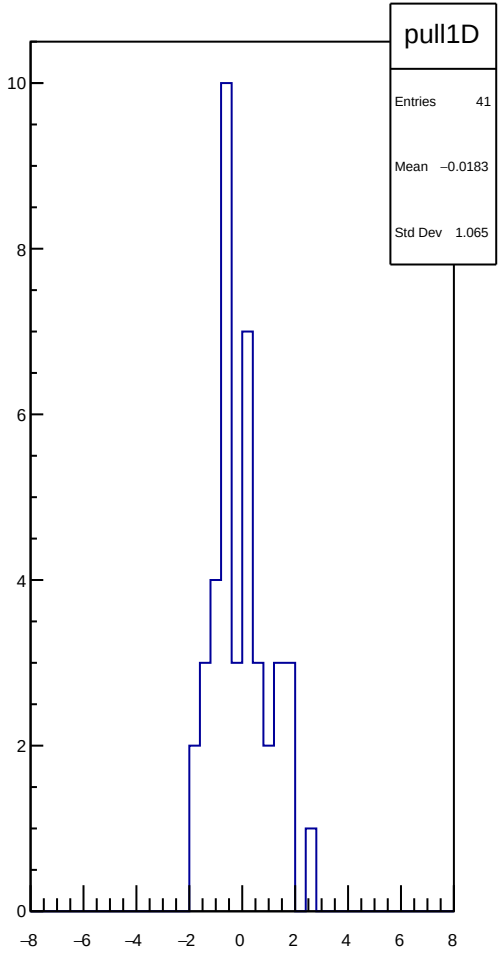

pull1D
Entries 41
Mean −0.01873
Std Dev 1.069

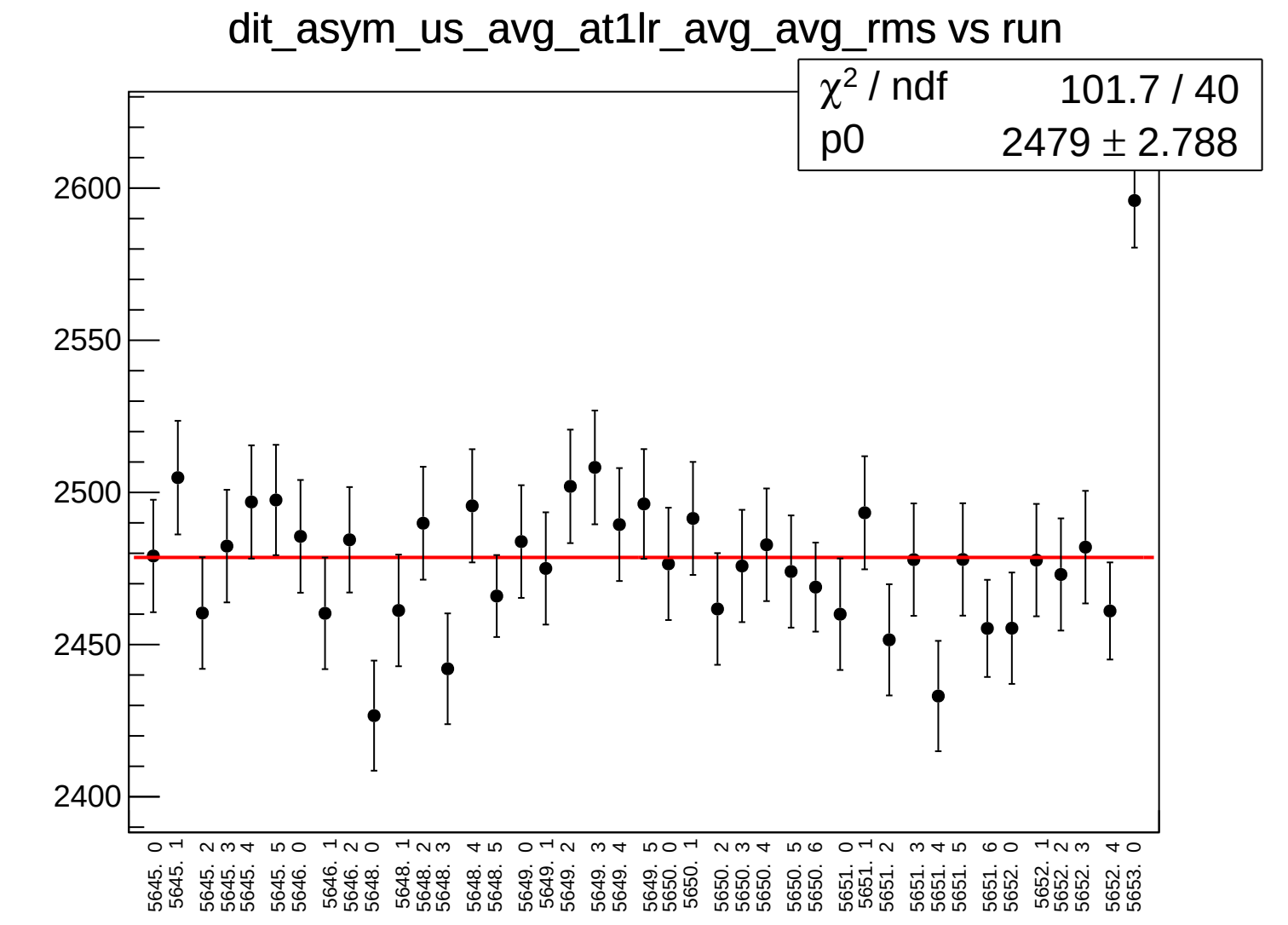

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 96.47 / 40
p0 2475 ± 2.784
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

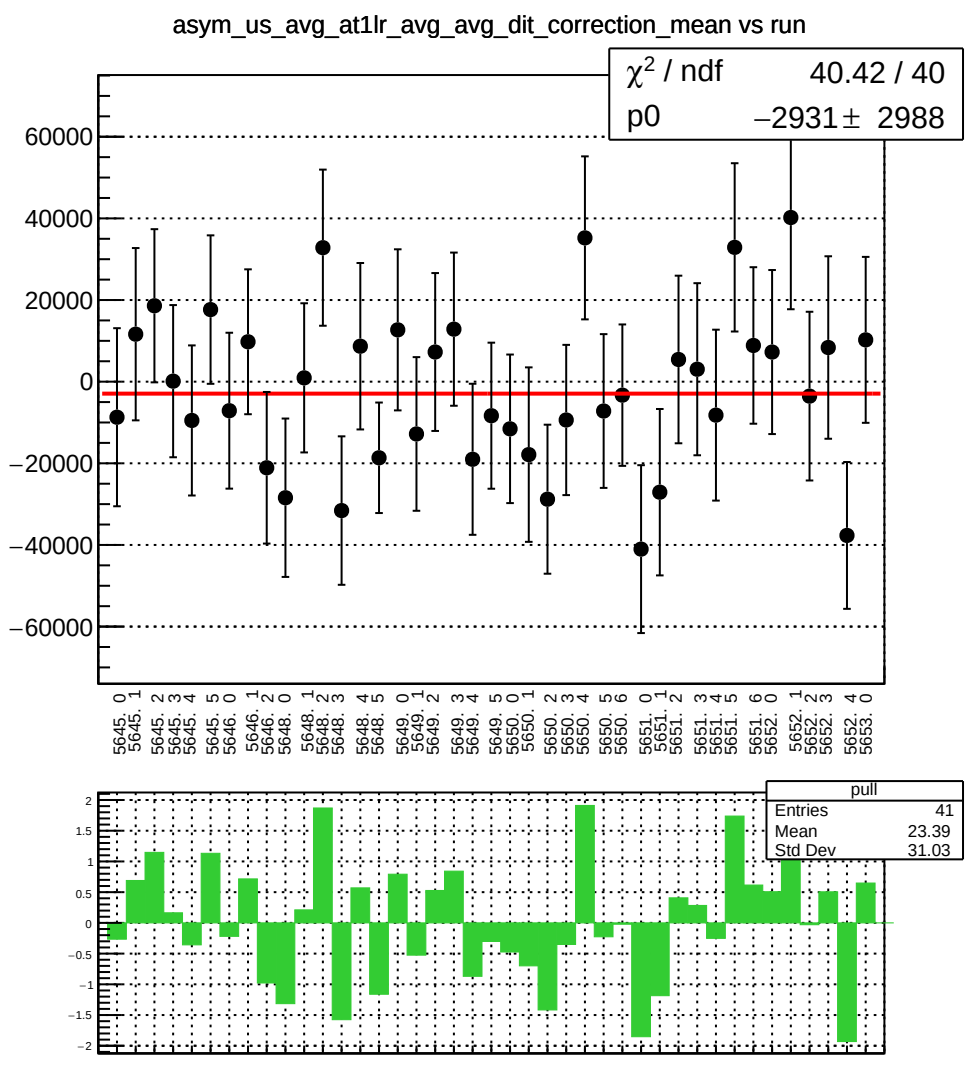

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.33 / 40
p0 −2688 ± 2988
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.01
Std Dev 33.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02665
Std Dev 0.9791
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

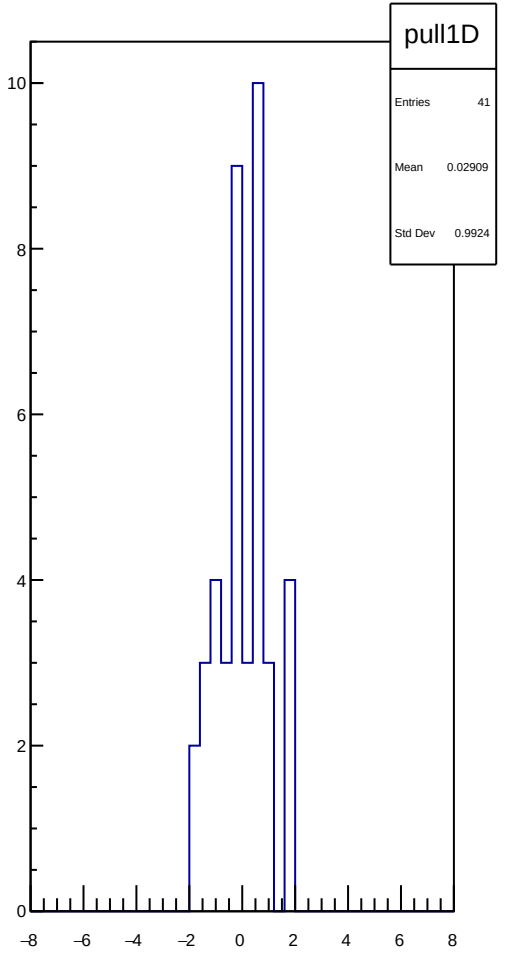

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4062 / 40
p0 1873 ± 2.113
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

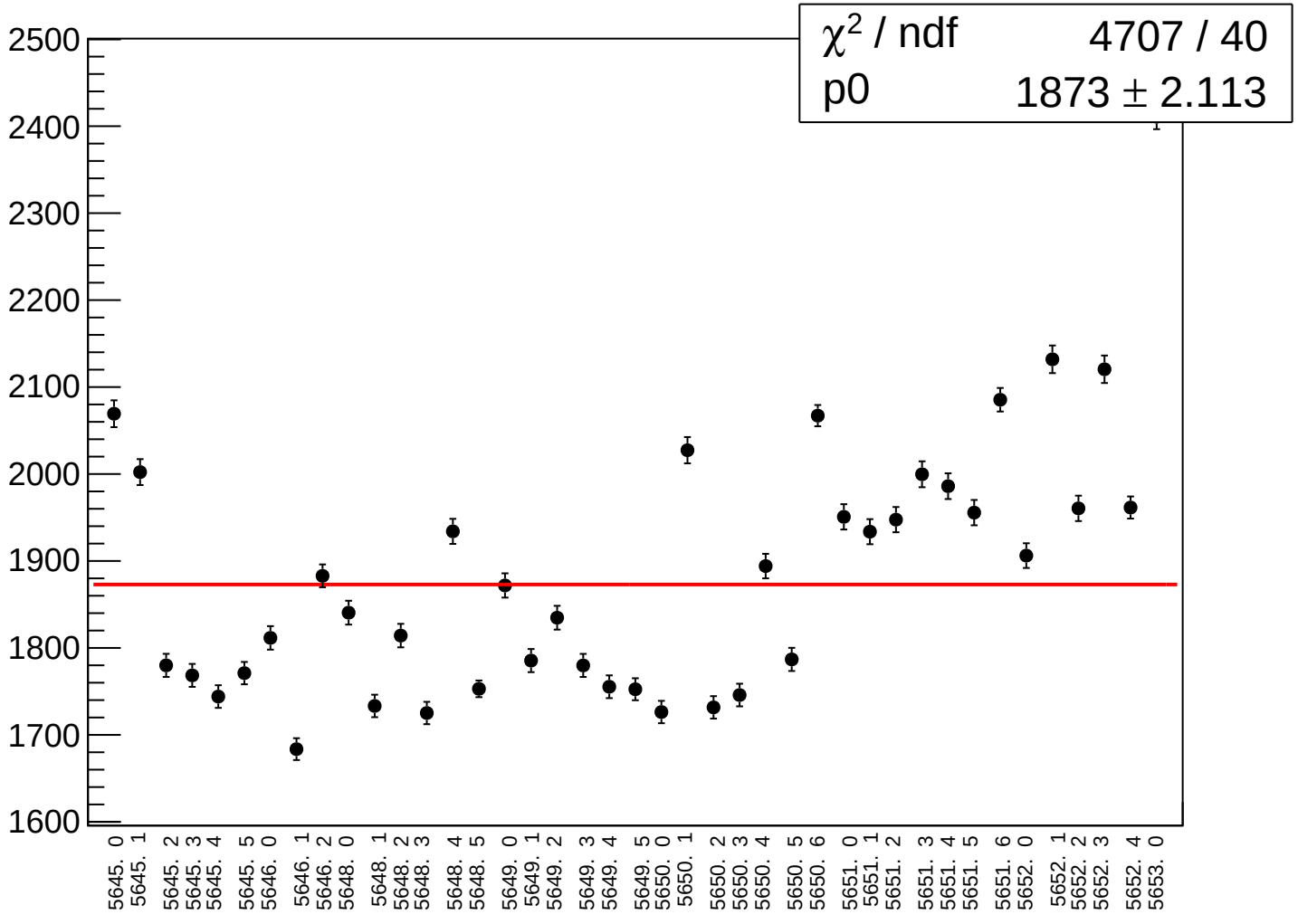

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.5 / 40
p0 −279.3 ± 3943
pull
Entries 41
Mean 150.1
Std Dev 0

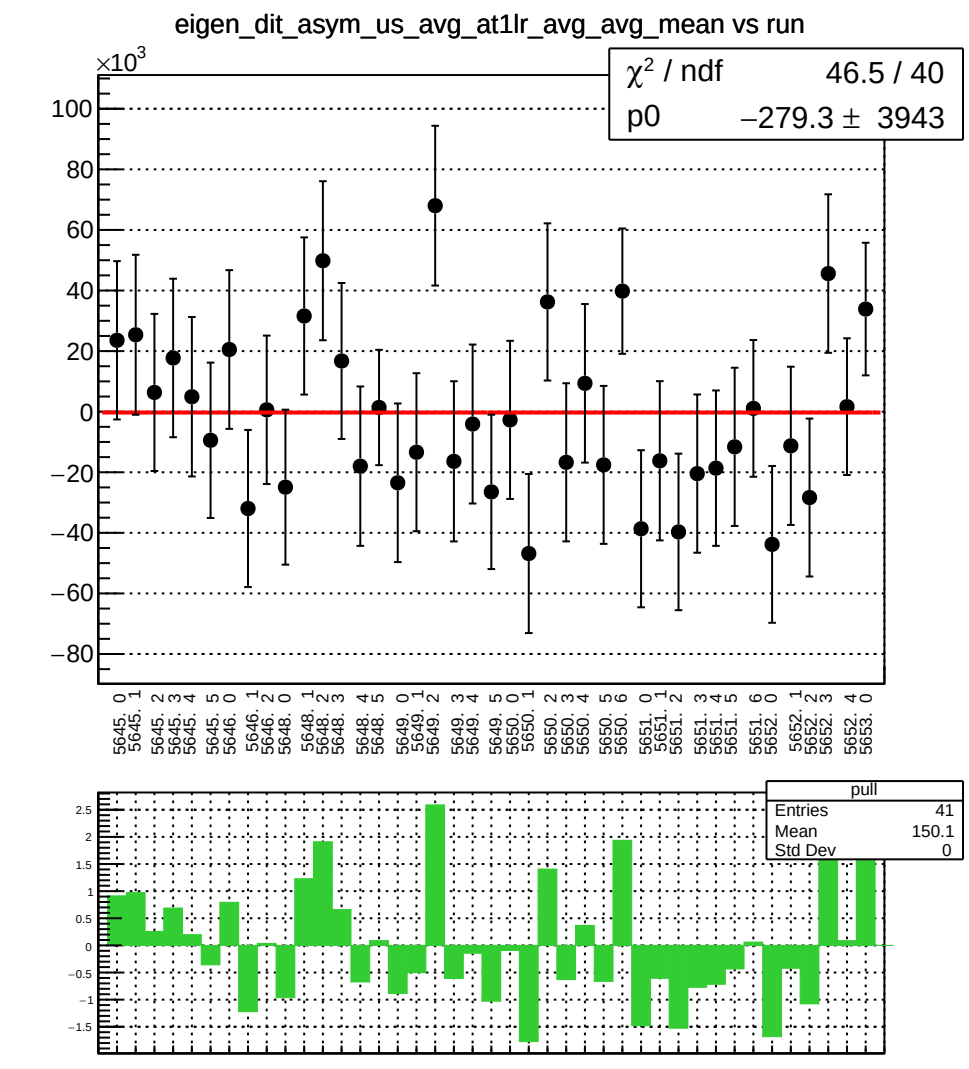

pull1D
Entries 41
Mean −0.0183
Std Dev 1.065

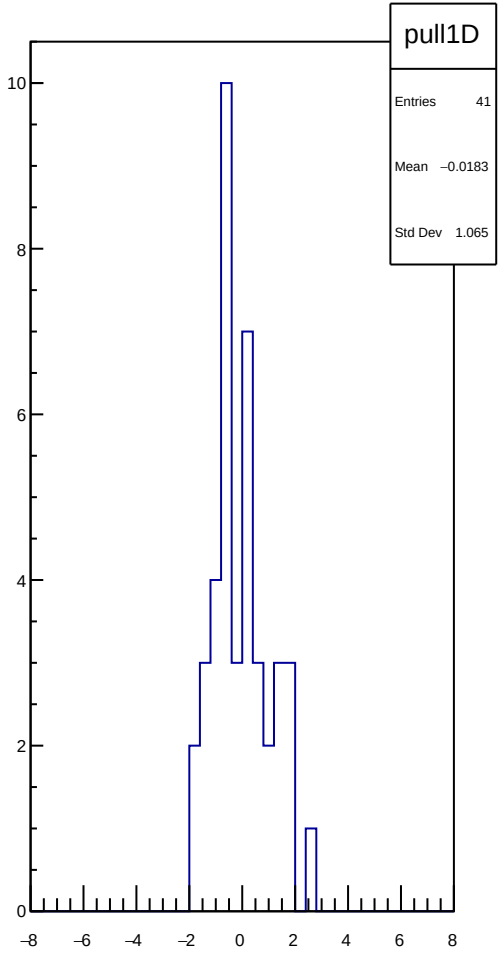

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 101.7 / 40
p0 2479 ± 2.788
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

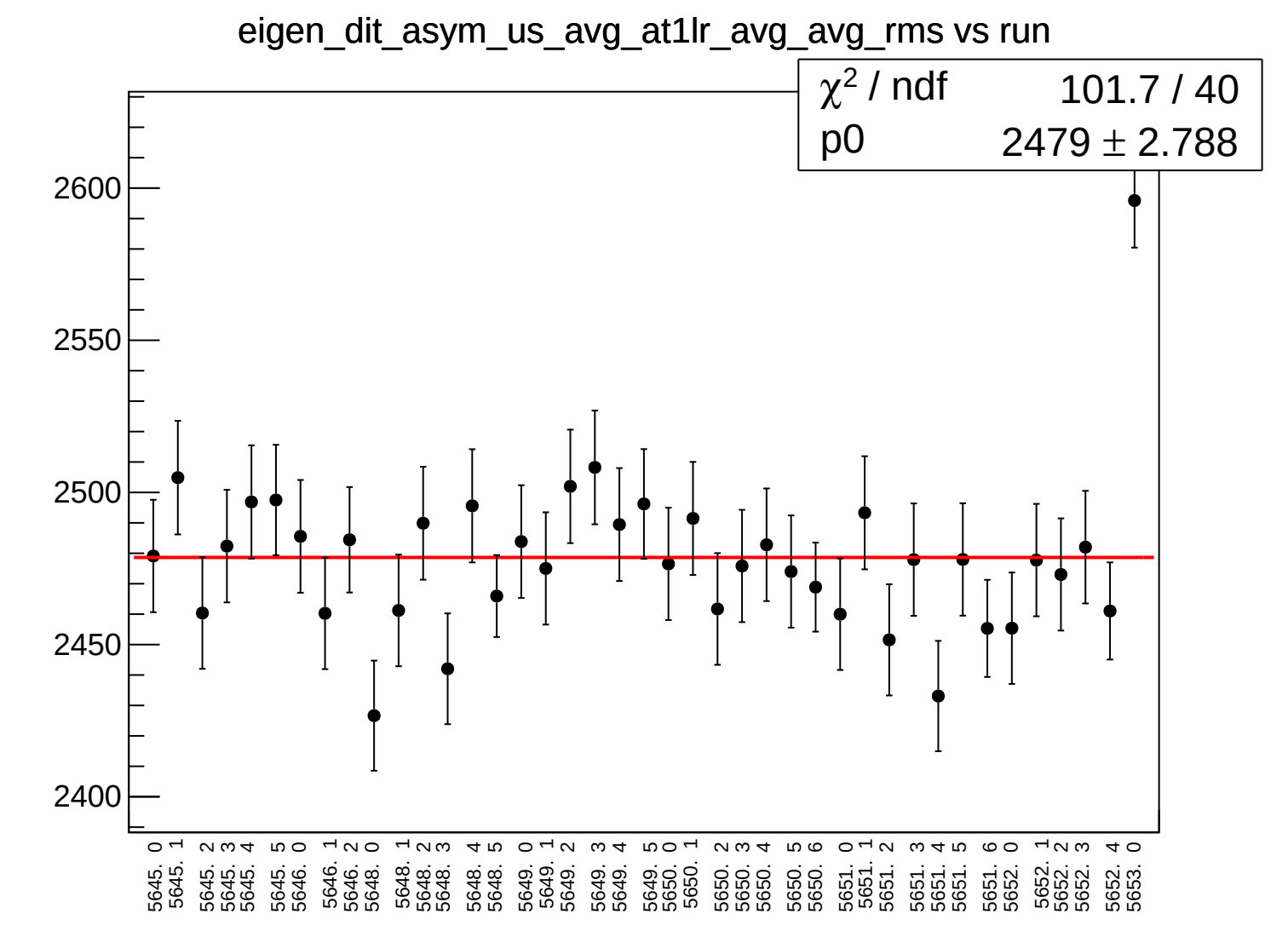

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 40.42 / 40
p0 −2931 ± 2988
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.39
Std Dev 31.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

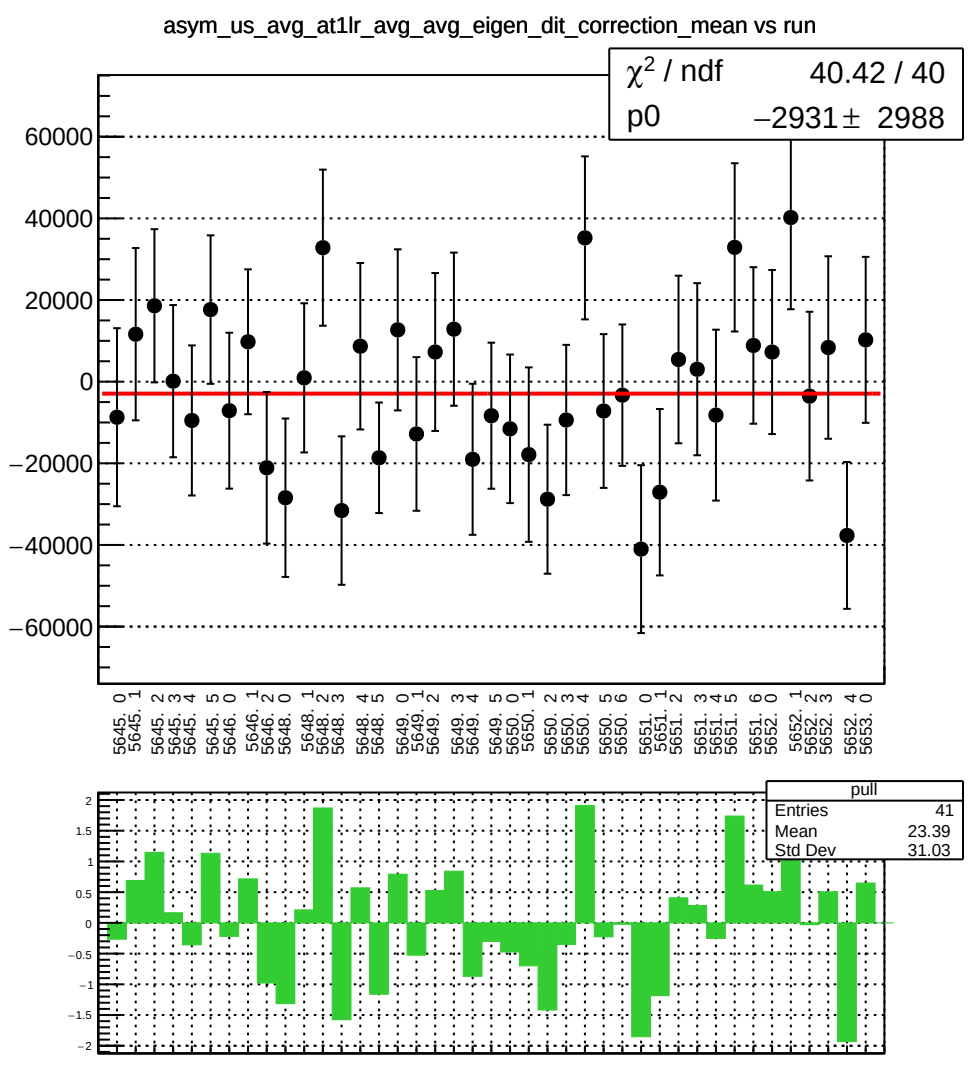

pull1D
Entries 41
Mean 0.02909
Std Dev 0.9924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

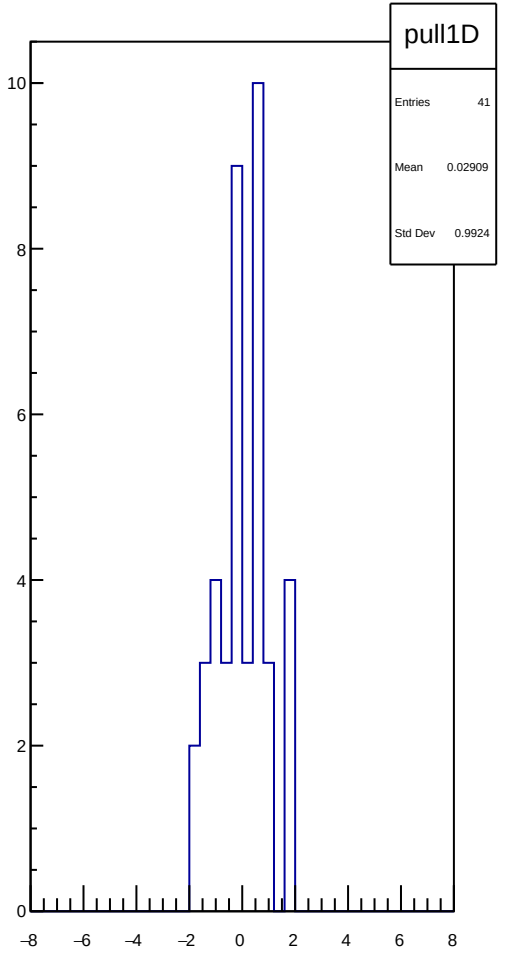

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4707 / 40
p0 1873 ± 2.113
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

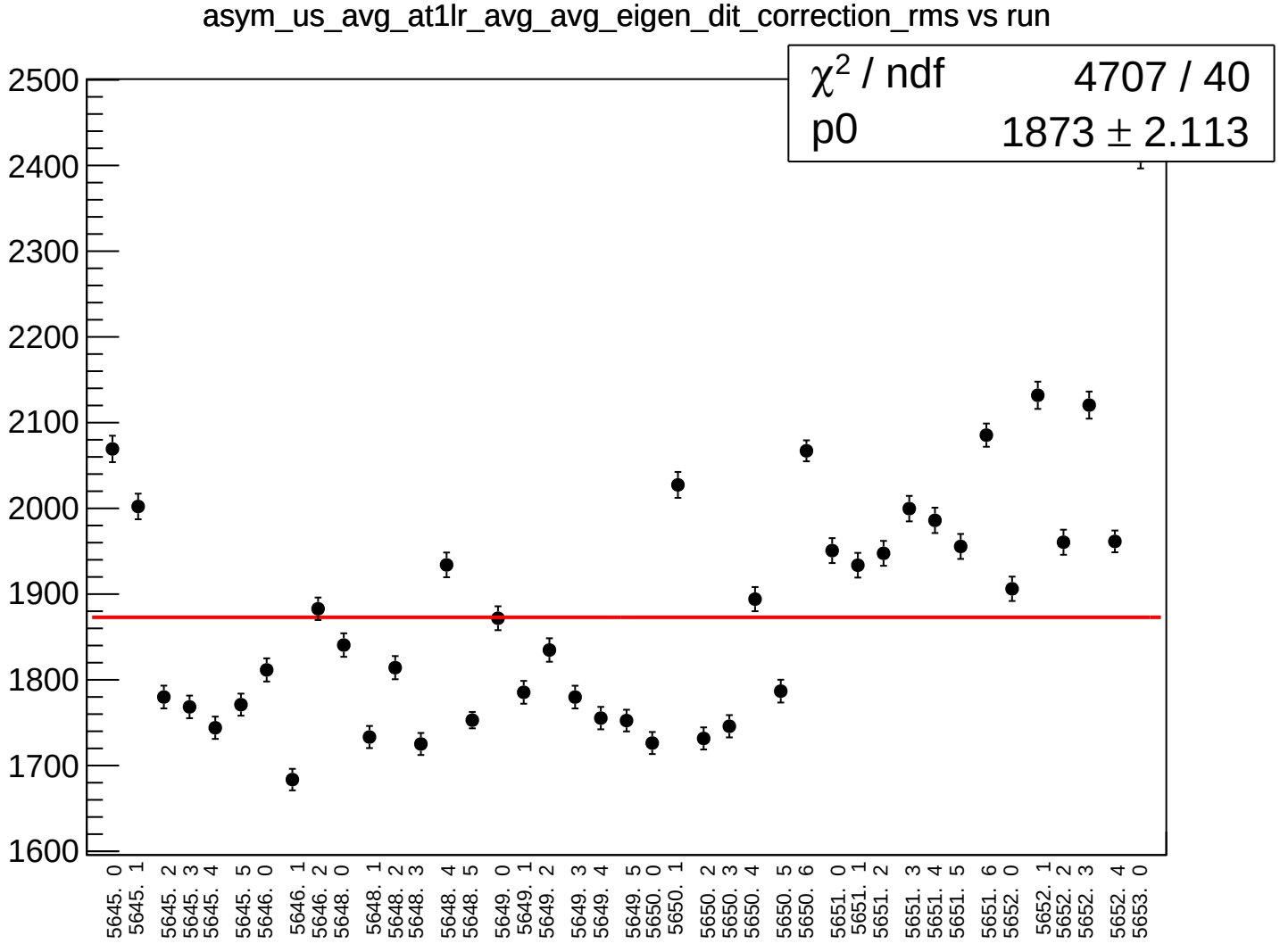

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 46.5 / 40
p0 −279.3 ± 3943
pull
Entries 41
Mean 150.1
Std Dev 0

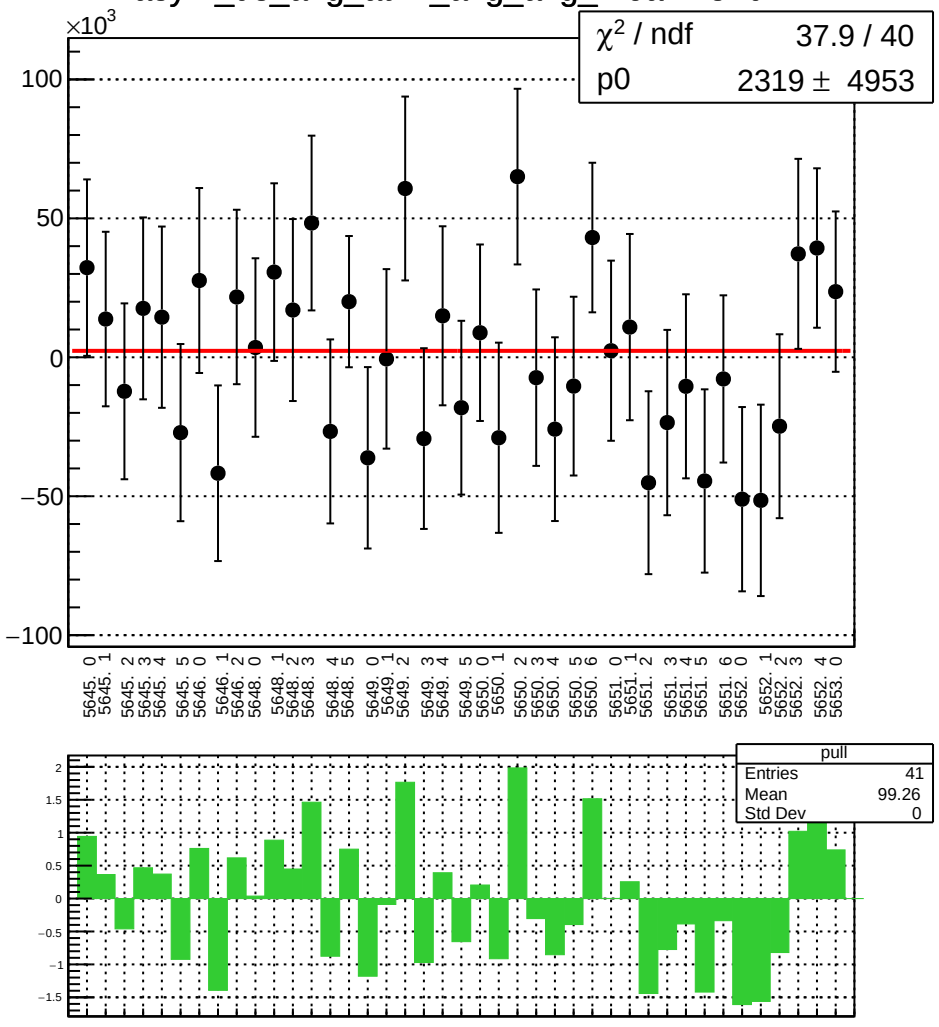

pull1D
Entries 41
Mean −0.0183
Std Dev 1.065

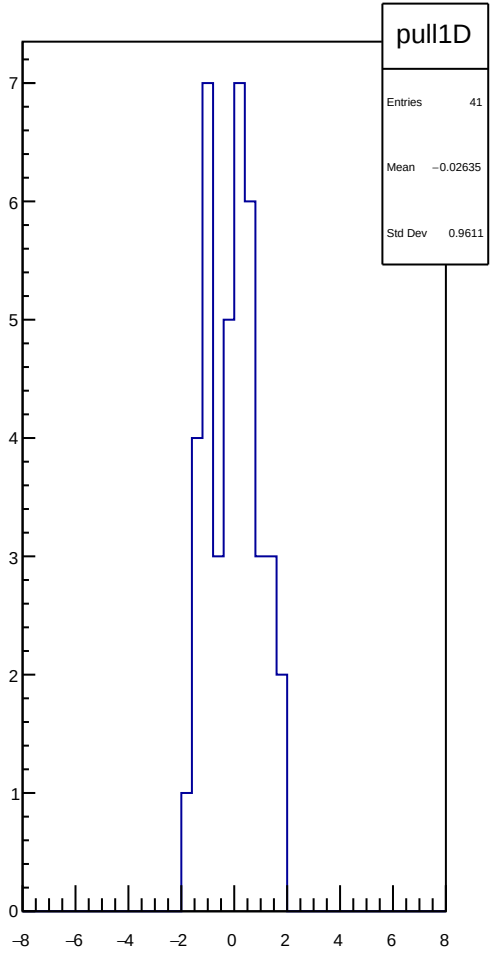

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 101.7 / 40
p0 2479 ± 2.788
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

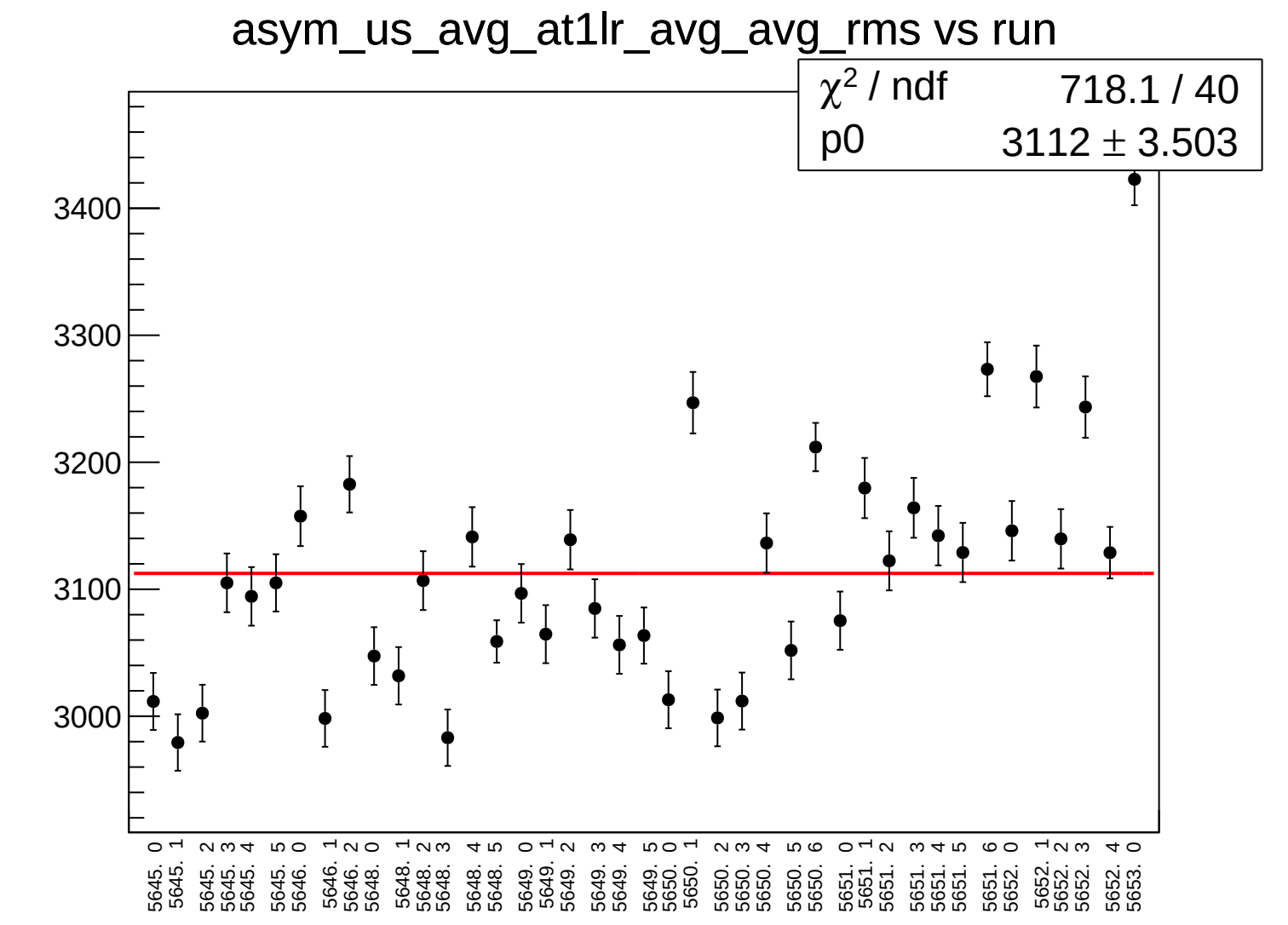

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.42 / 40
p0 −2931 ± 2988
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.39
Std Dev 31.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

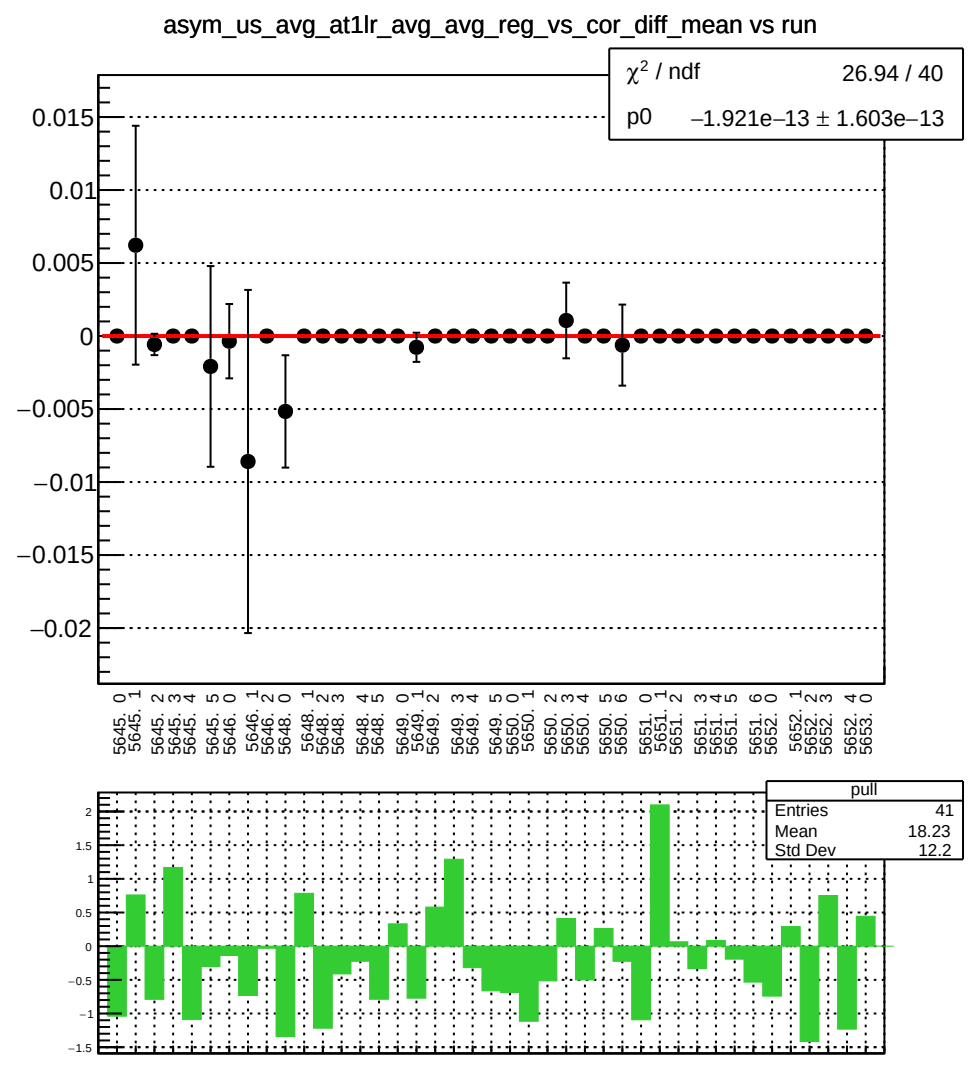

pull1D
Entries 41
Mean 0.02909
Std Dev 0.9924
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

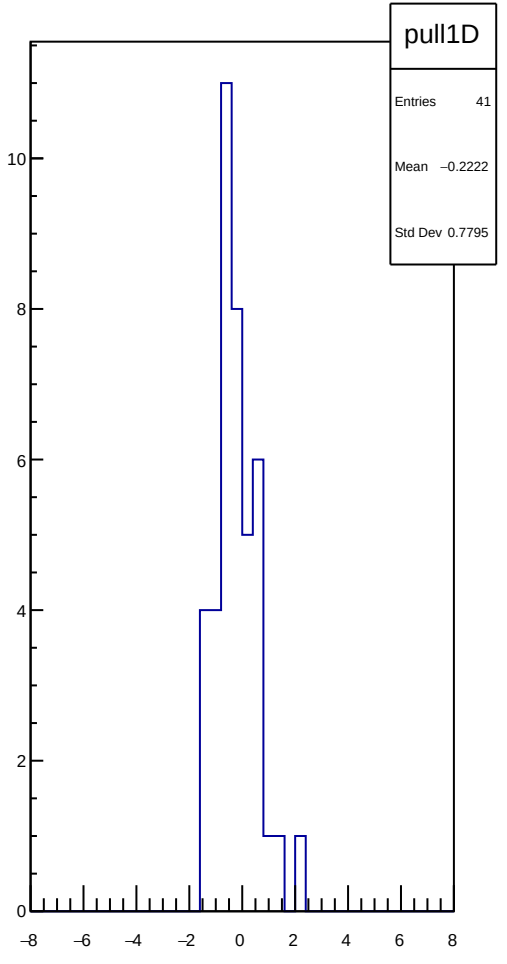

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4707 / 40
p0 1873 ± 2.113
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

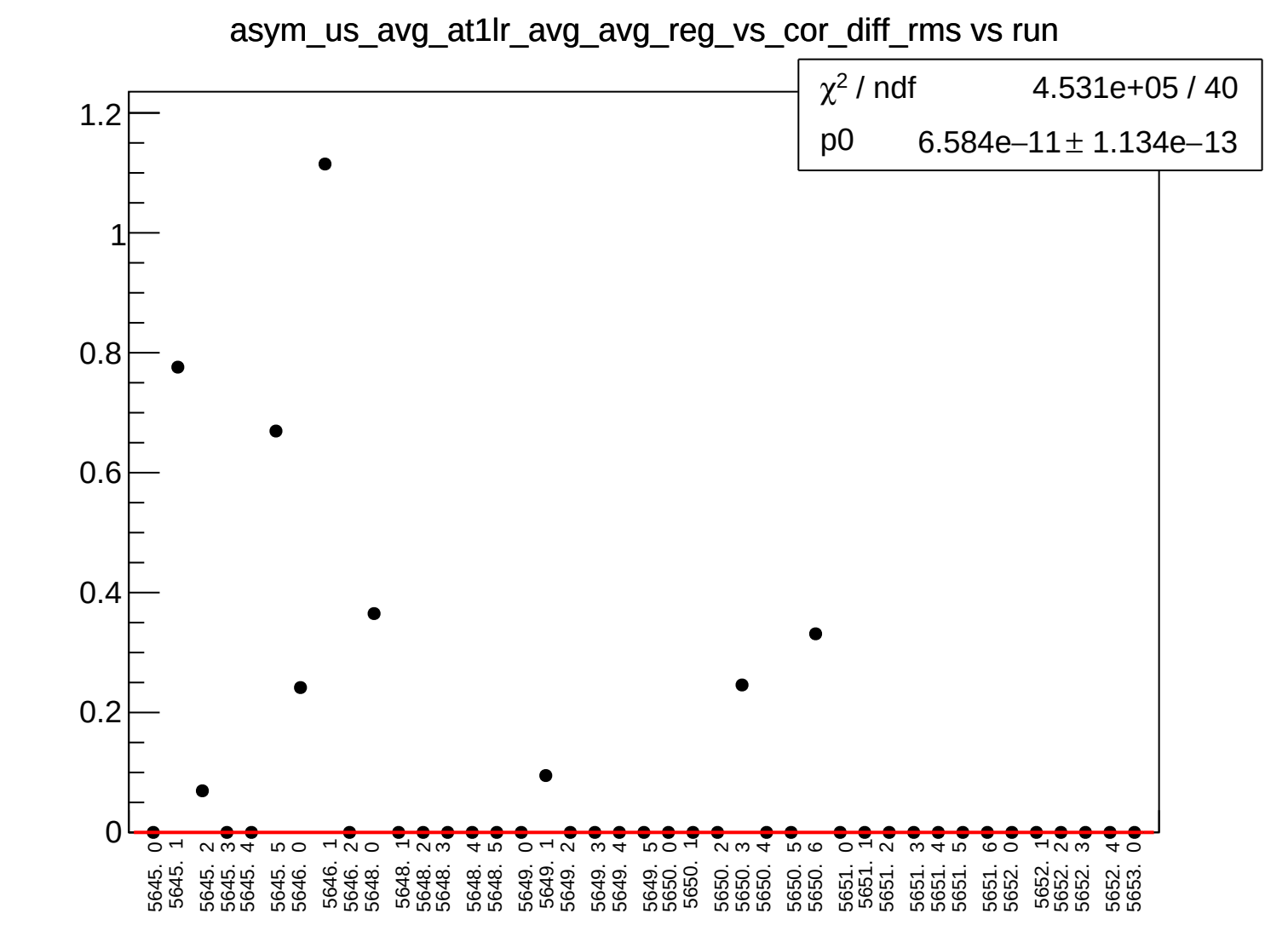

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 37.9 / 40
p0 2319 ± 4953
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 99.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

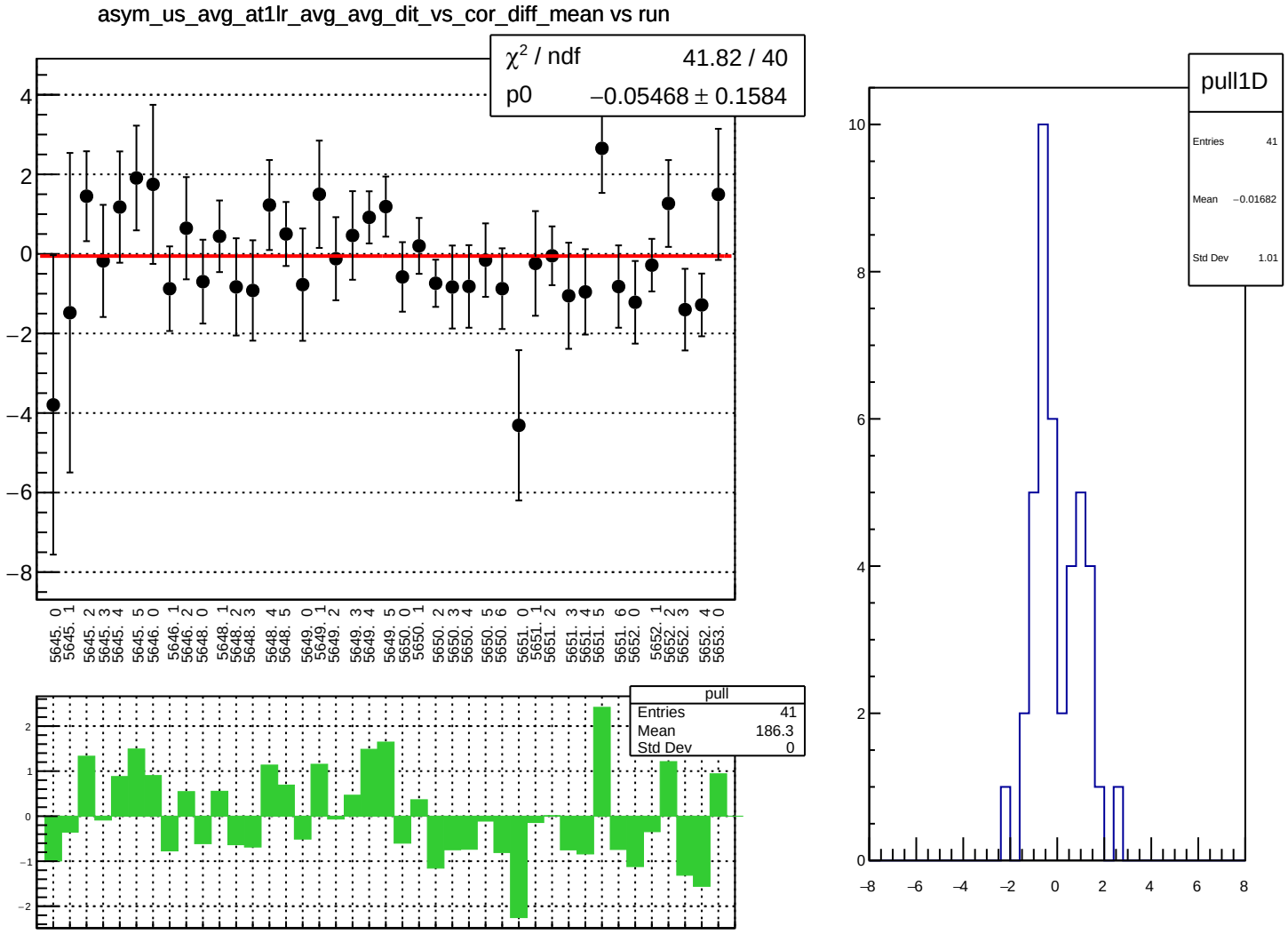

pull1D
Entries 41
Mean −0.02635
Std Dev 0.9611
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

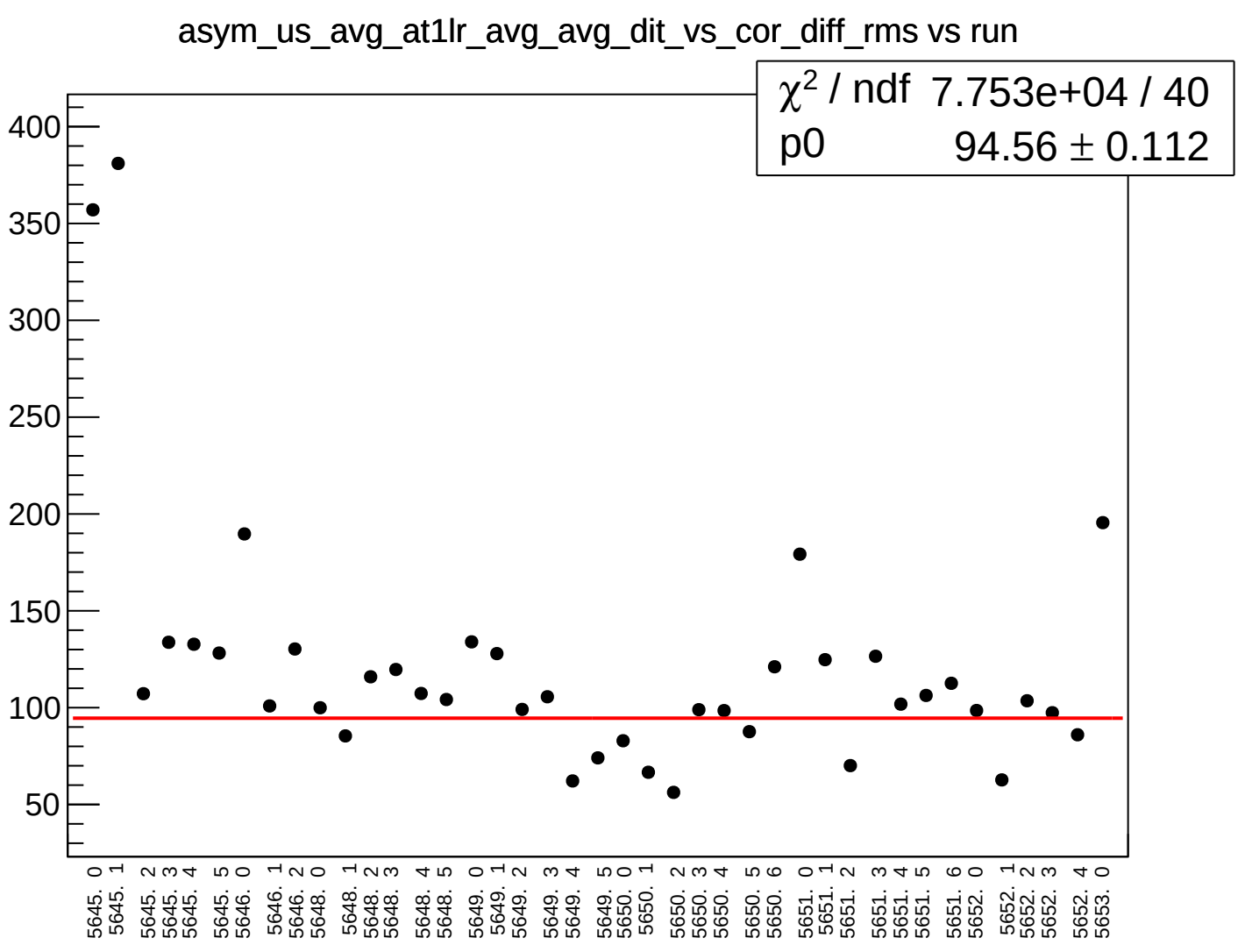

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 718.1 / 40
p0 3112 ± 3.503
3400
3300
3200
3100
3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

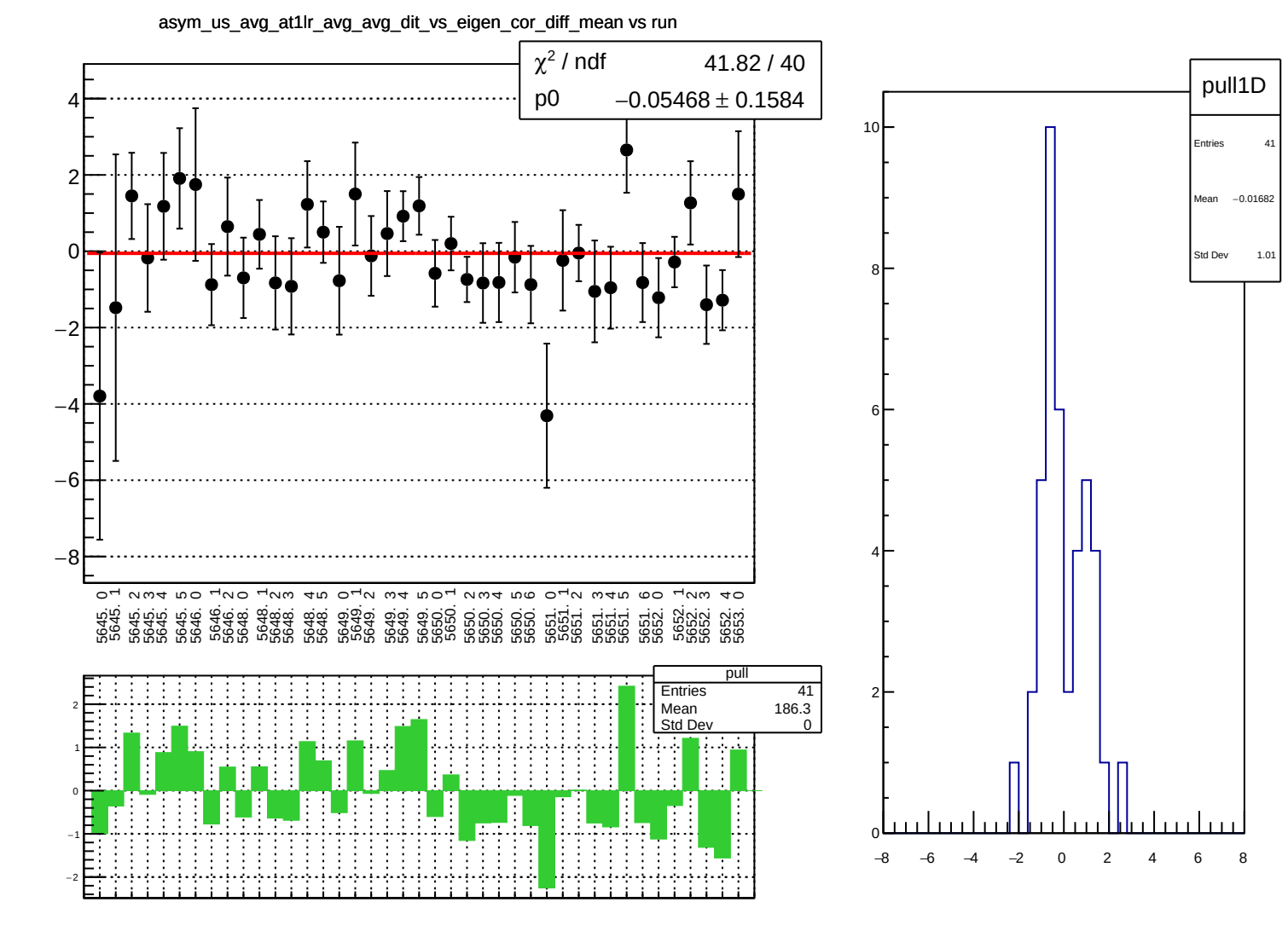

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.94 / 40
p0 −1.921e−13 ± 1.603e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 41
Mean 18.23
Std Dev 12.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

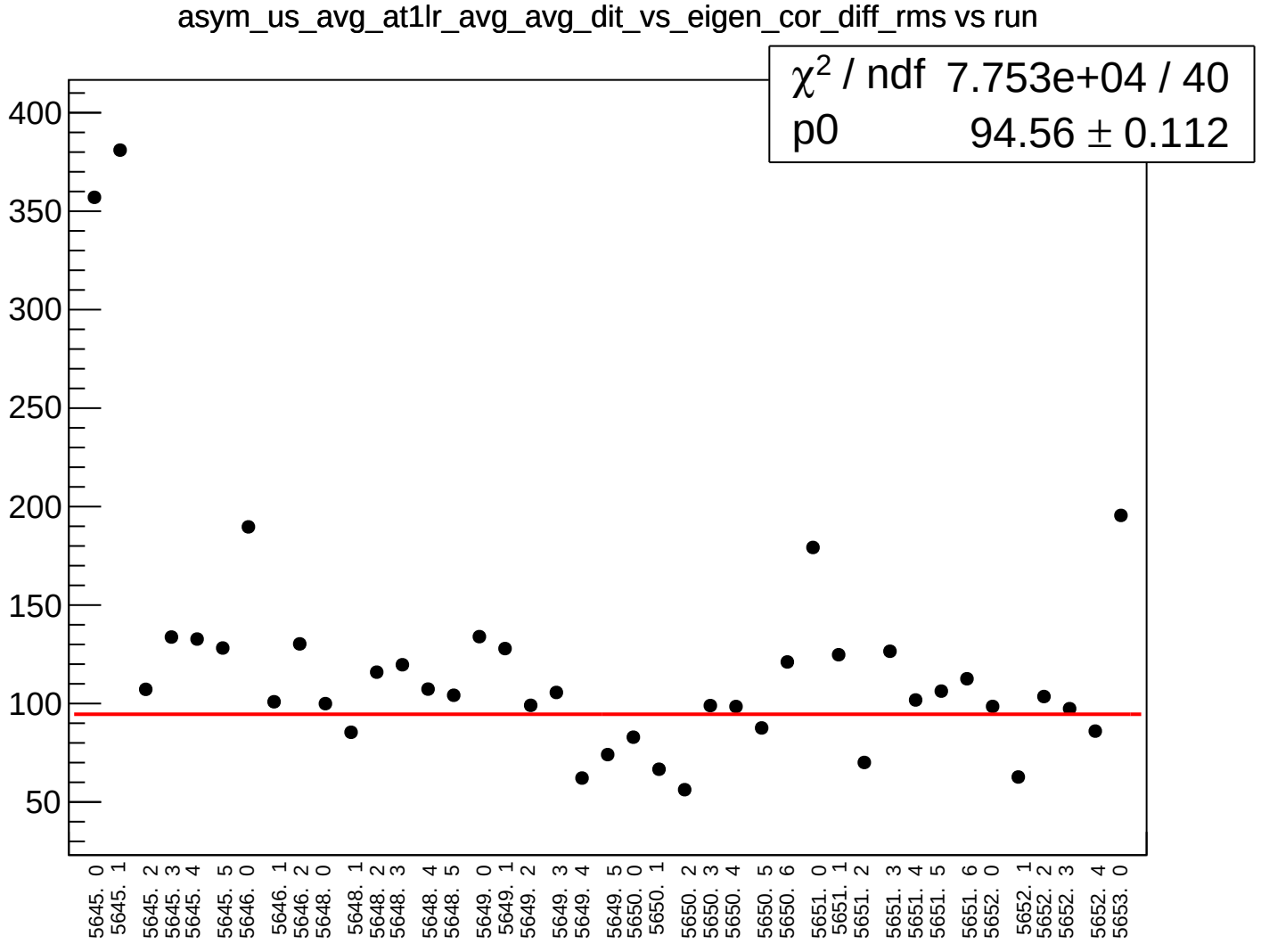

pull1D
Entries 41
Mean −0.2222
Std Dev 0.7795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

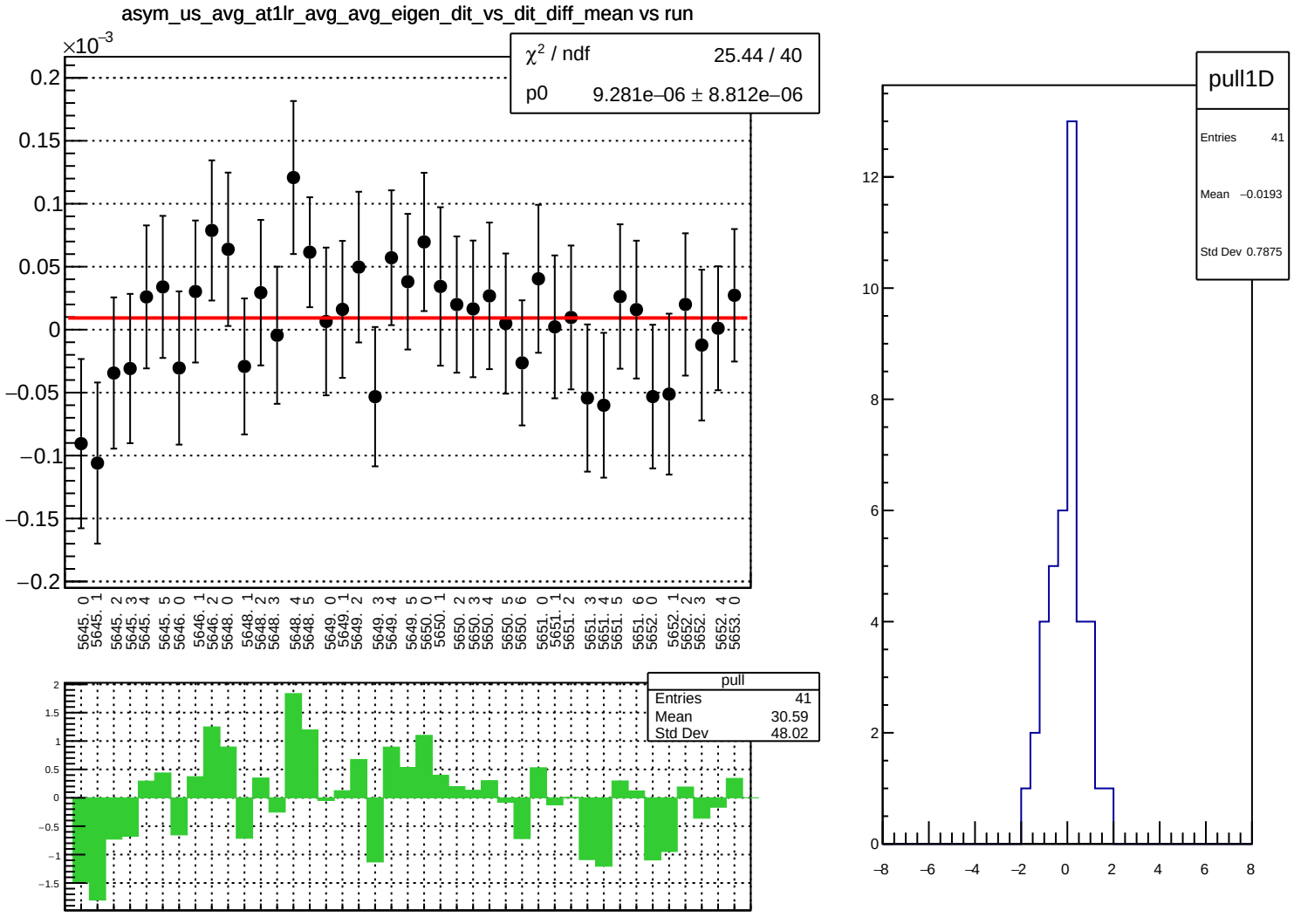

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.531e+05 / 40
p0 6.584e−11 ± 1.134e−13
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

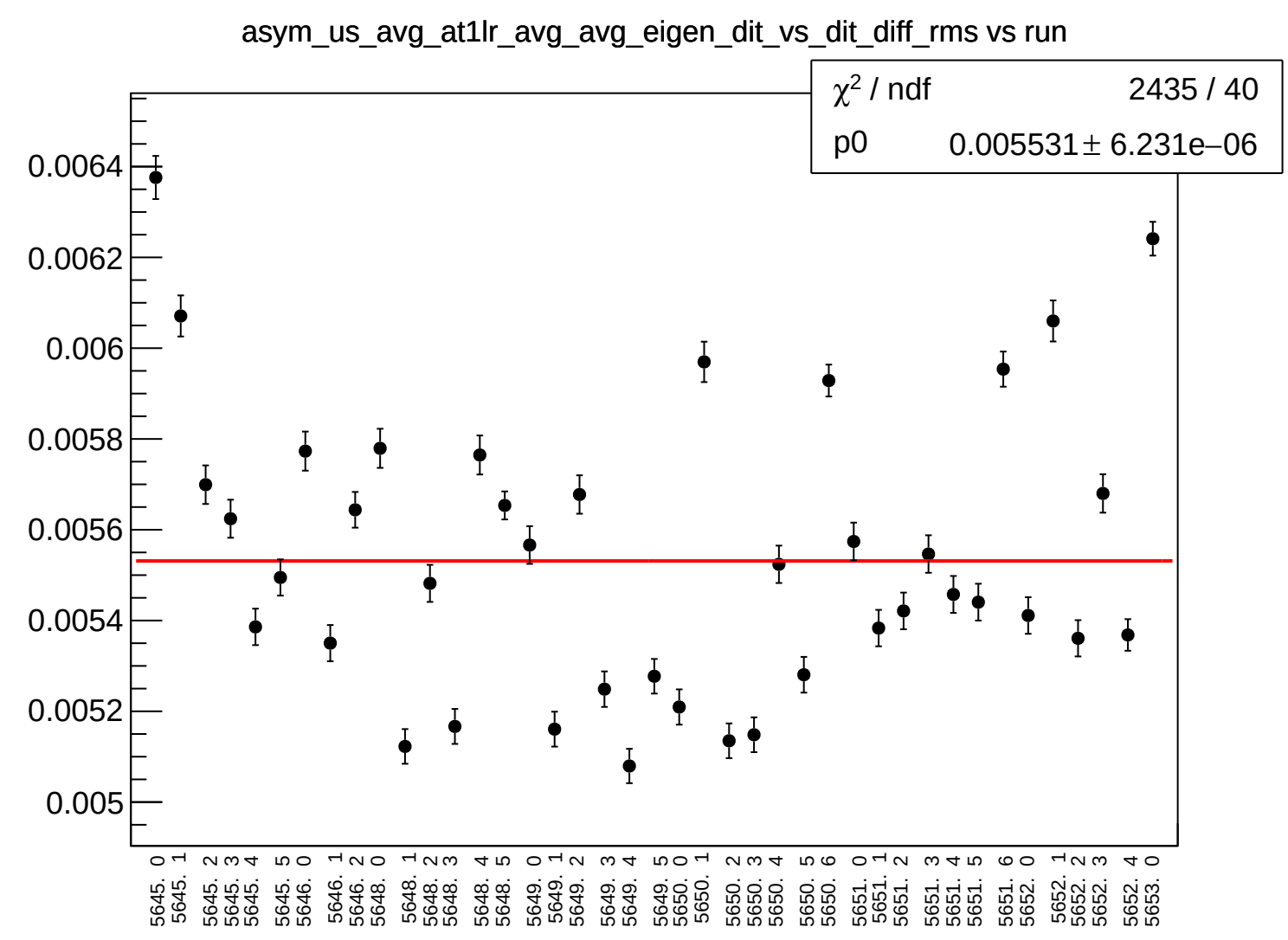

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.82 / 40
p0 −0.05468 ± 0.1584
pull
Entries 41
Mean 186.3
Std Dev 0
pull1D
Entries 41
Mean −0.01682
Std Dev 1.01

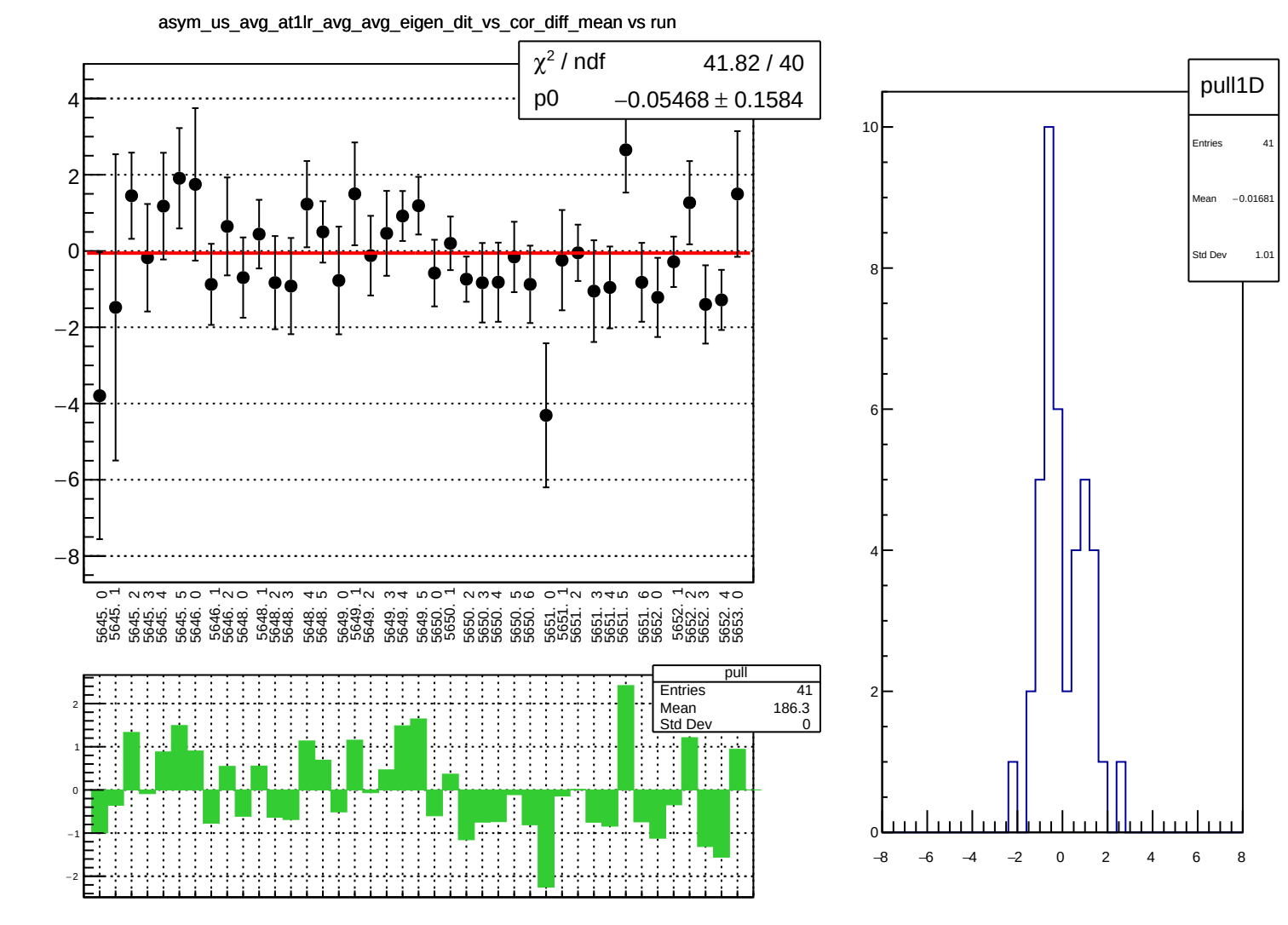

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.753e+04 / 40
p0 94.56 ± 0.112
400
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

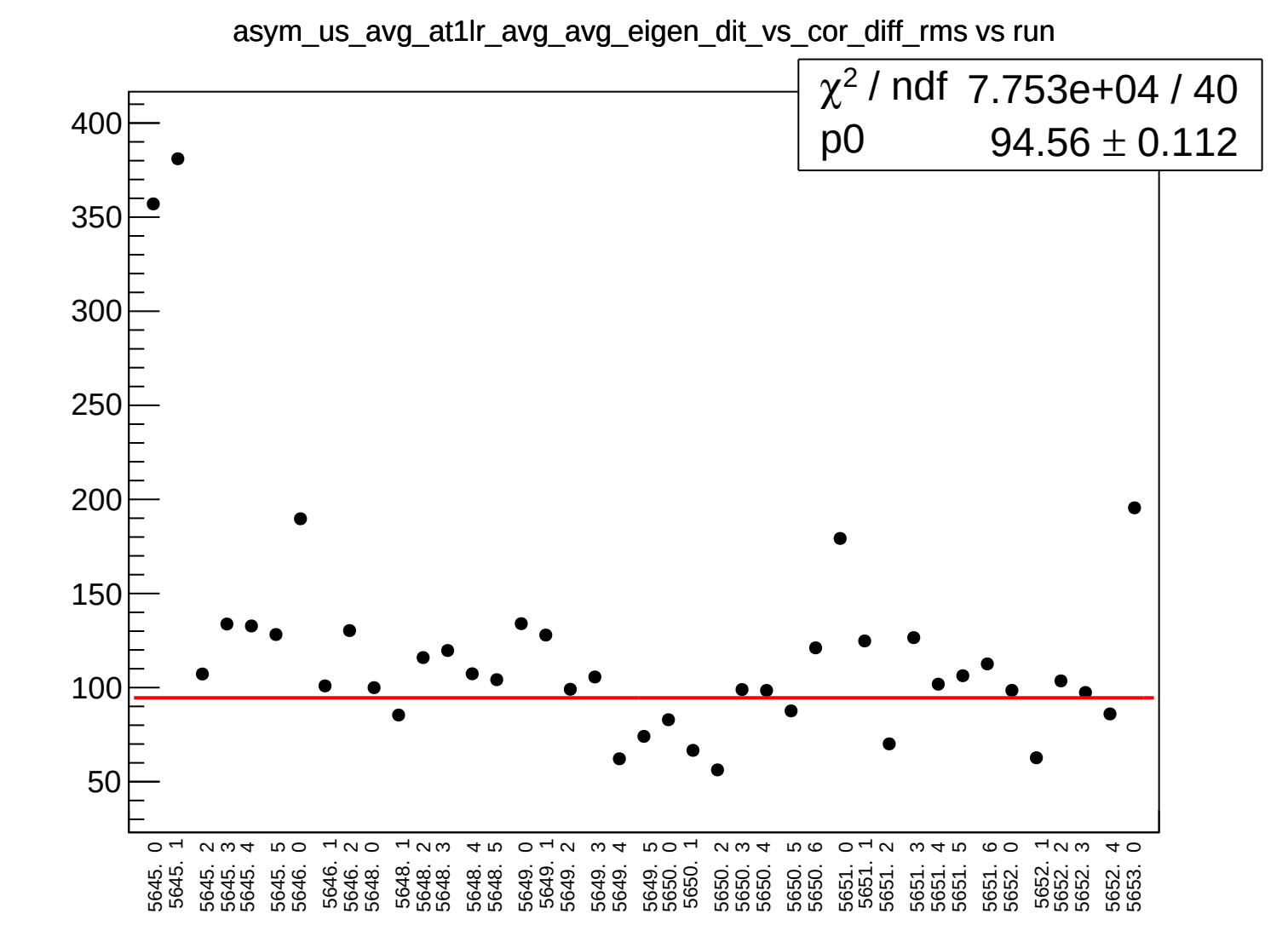

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.82 / 40
p0 −0.05468 ± 0.1584
pull
Entries 41
Mean 186.3
Std Dev 0
pull1D
Entries 41
Mean −0.01682
Std Dev 1.01

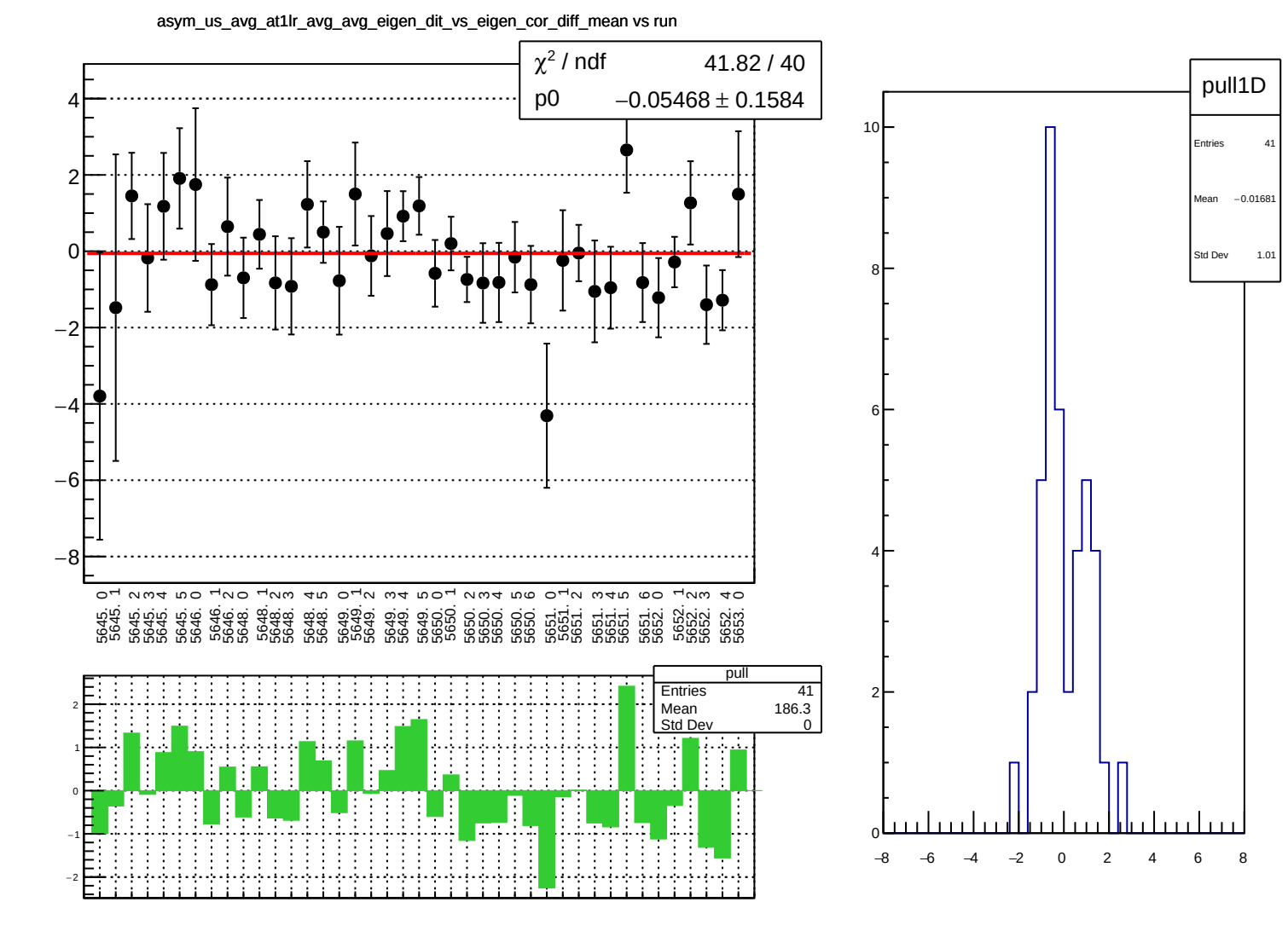

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.753e+04 / 40
p0 94.56 ± 0.112
400
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

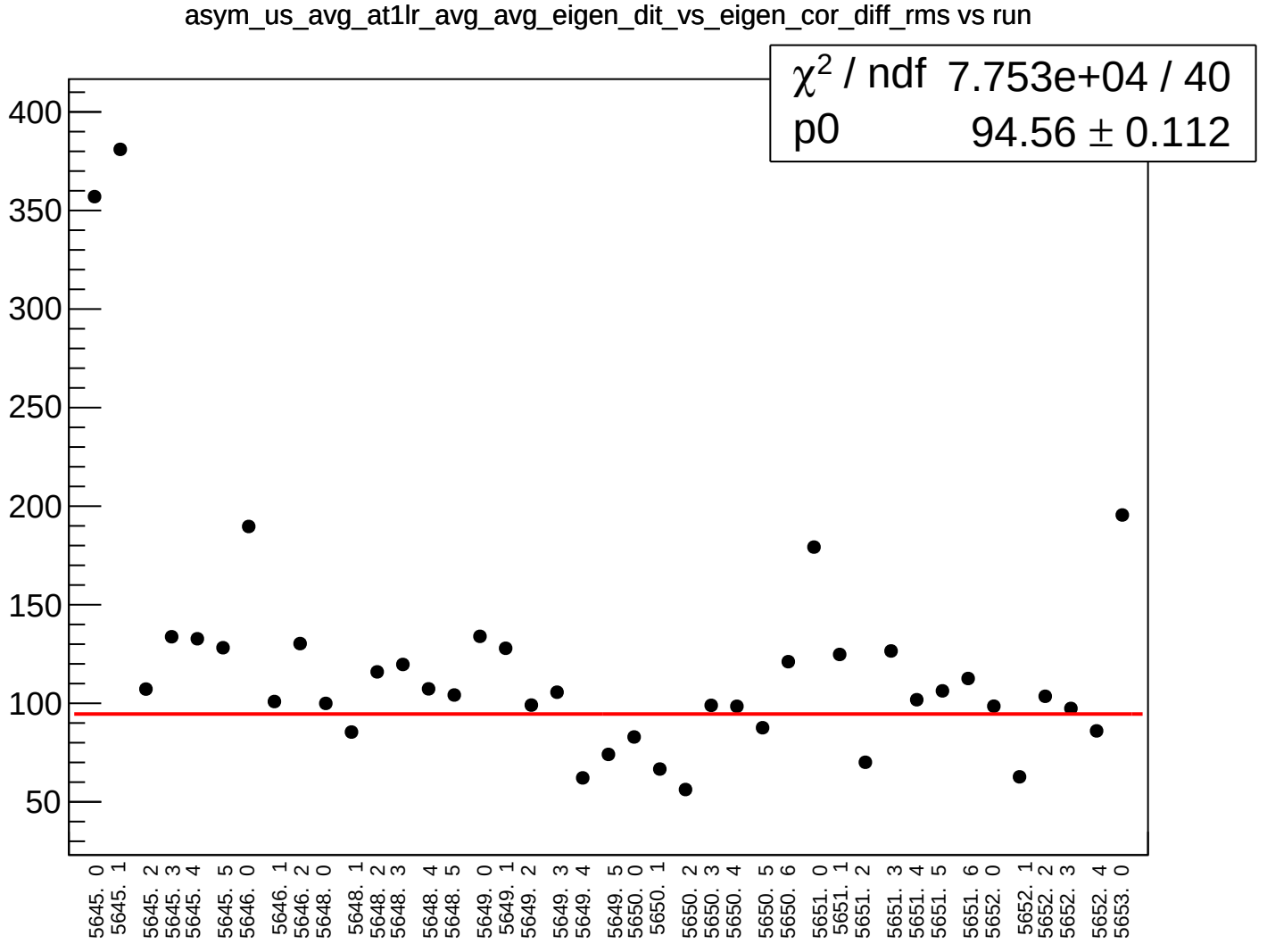

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.44 / 40
p0 9.281e−06 ± 8.812e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.59
Std Dev 48.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.0193
Std Dev 0.7875
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

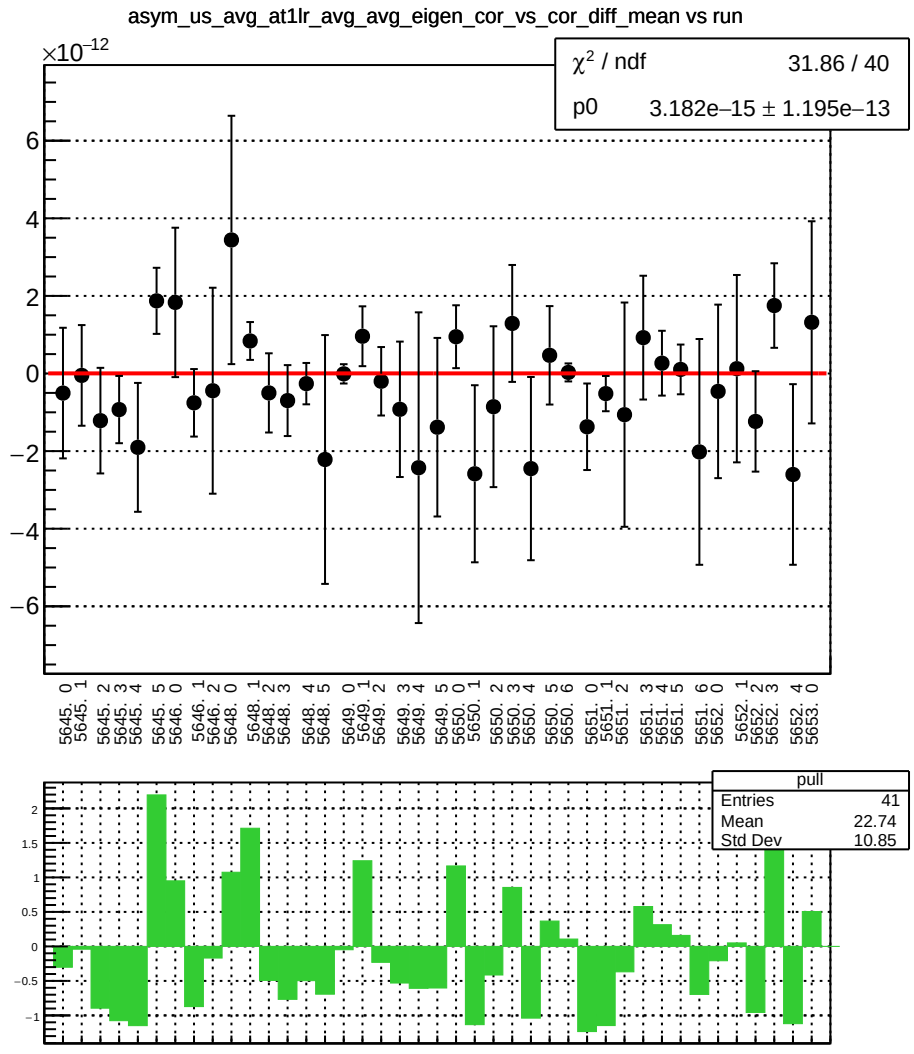

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2435 / 40
p0 0.005531 ± 6.231e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

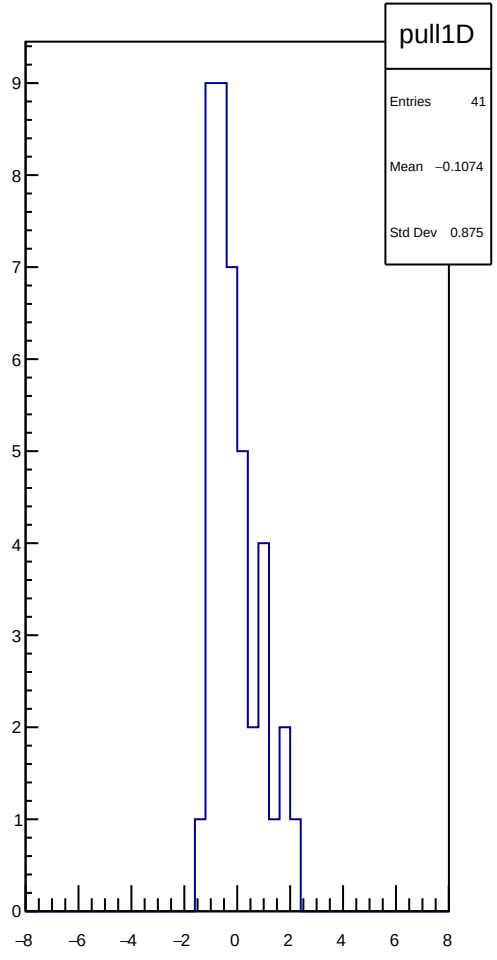

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 41.82 / 40
p0 −0.05468 ± 0.1584
pull
Entries 41
Mean 186.3
Std Dev 0
pull1D
Entries 41
Mean −0.01681
Std Dev 1.01

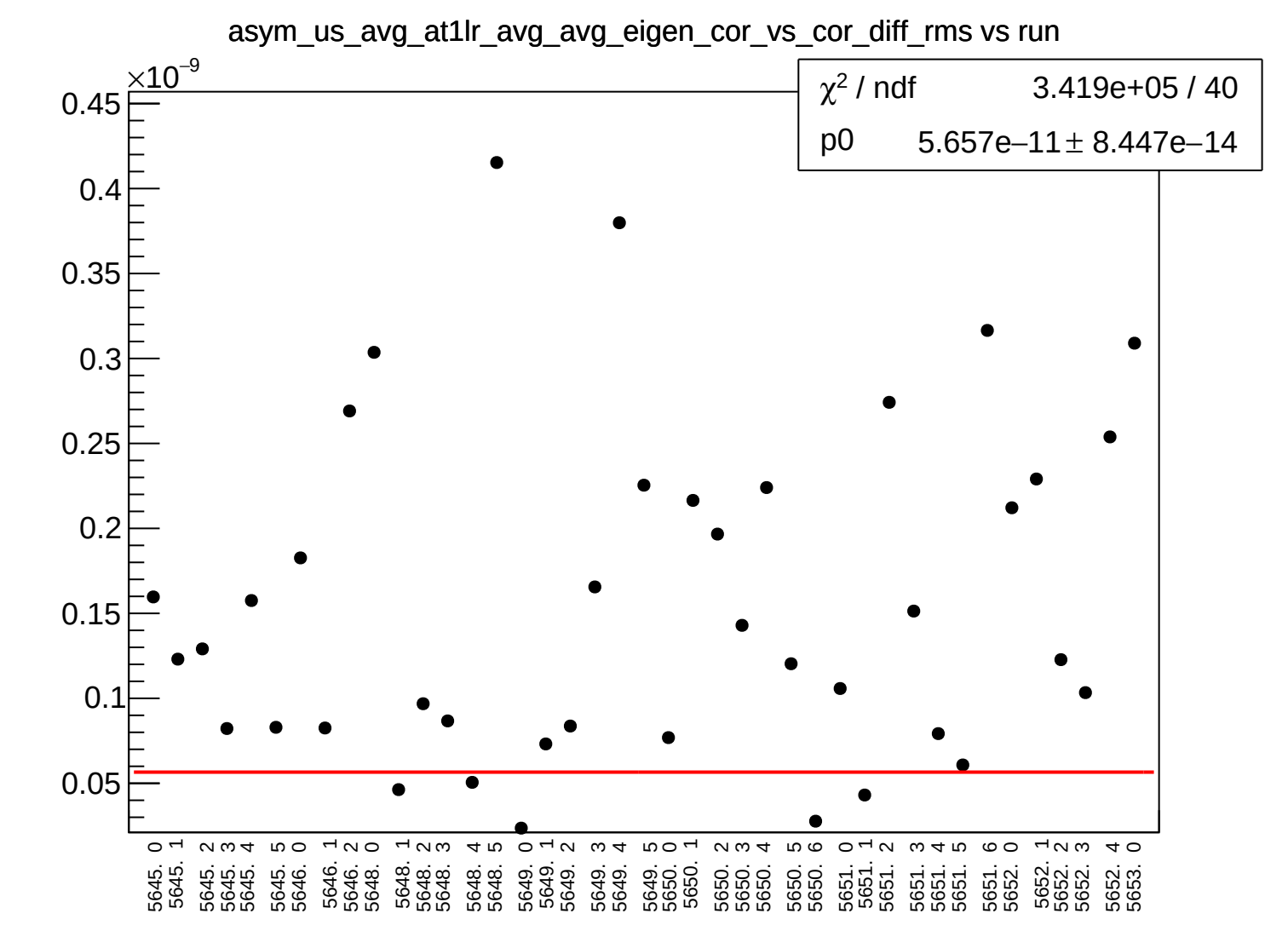

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.753e+04 / 40
p0 94.56 ± 0.112
400
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

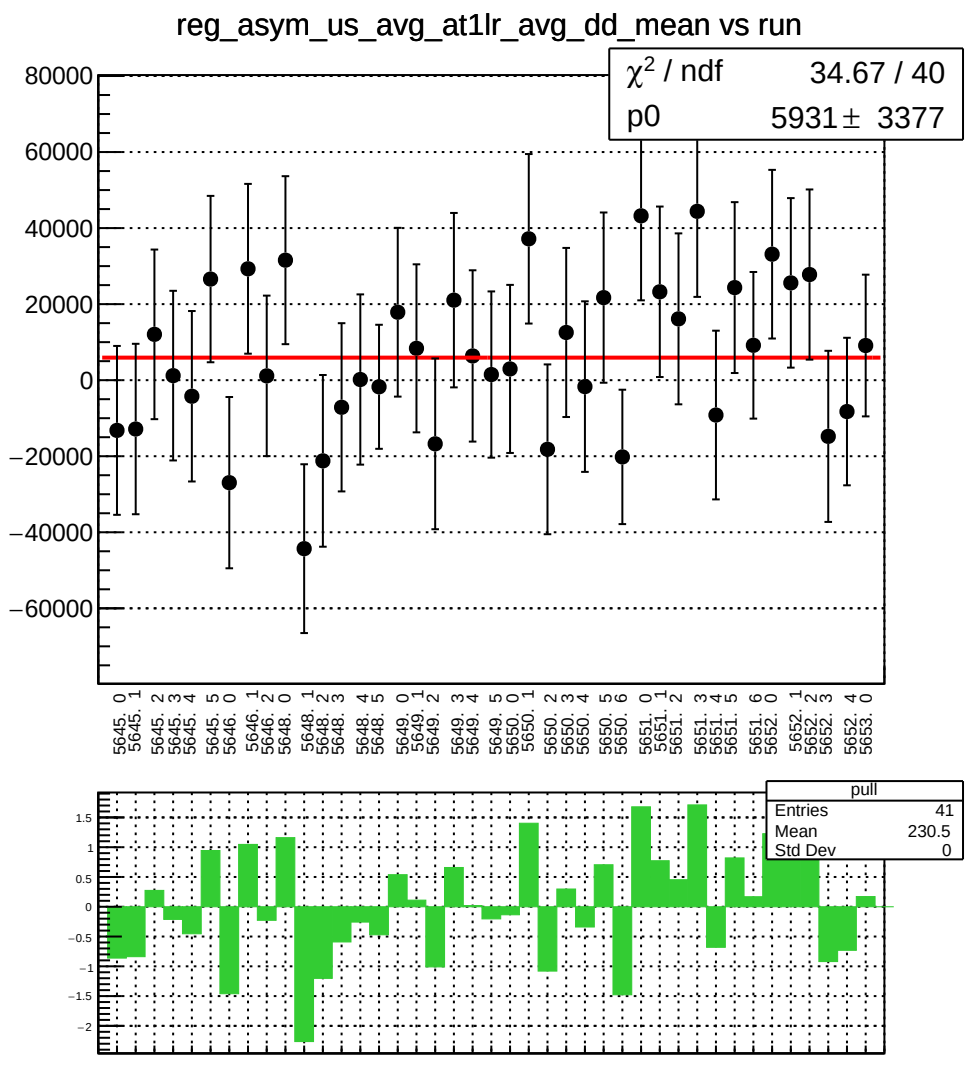

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.82 / 40
p0 −0.05468 ± 0.1584
pull
Entries 41
Mean 186.3
Std Dev 0
pull1D
Entries 41
Mean −0.01681
Std Dev 1.01

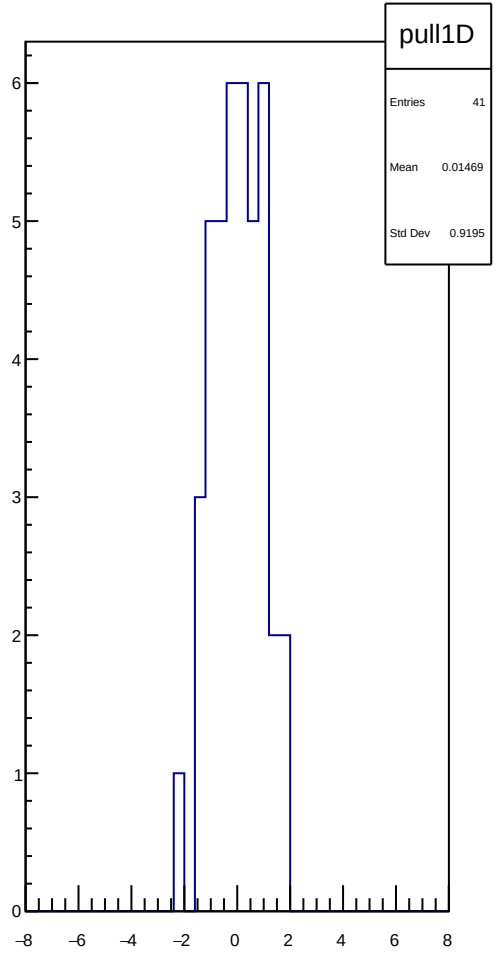

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.753e+04 / 40
p0 94.56 ± 0.112
400
350
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

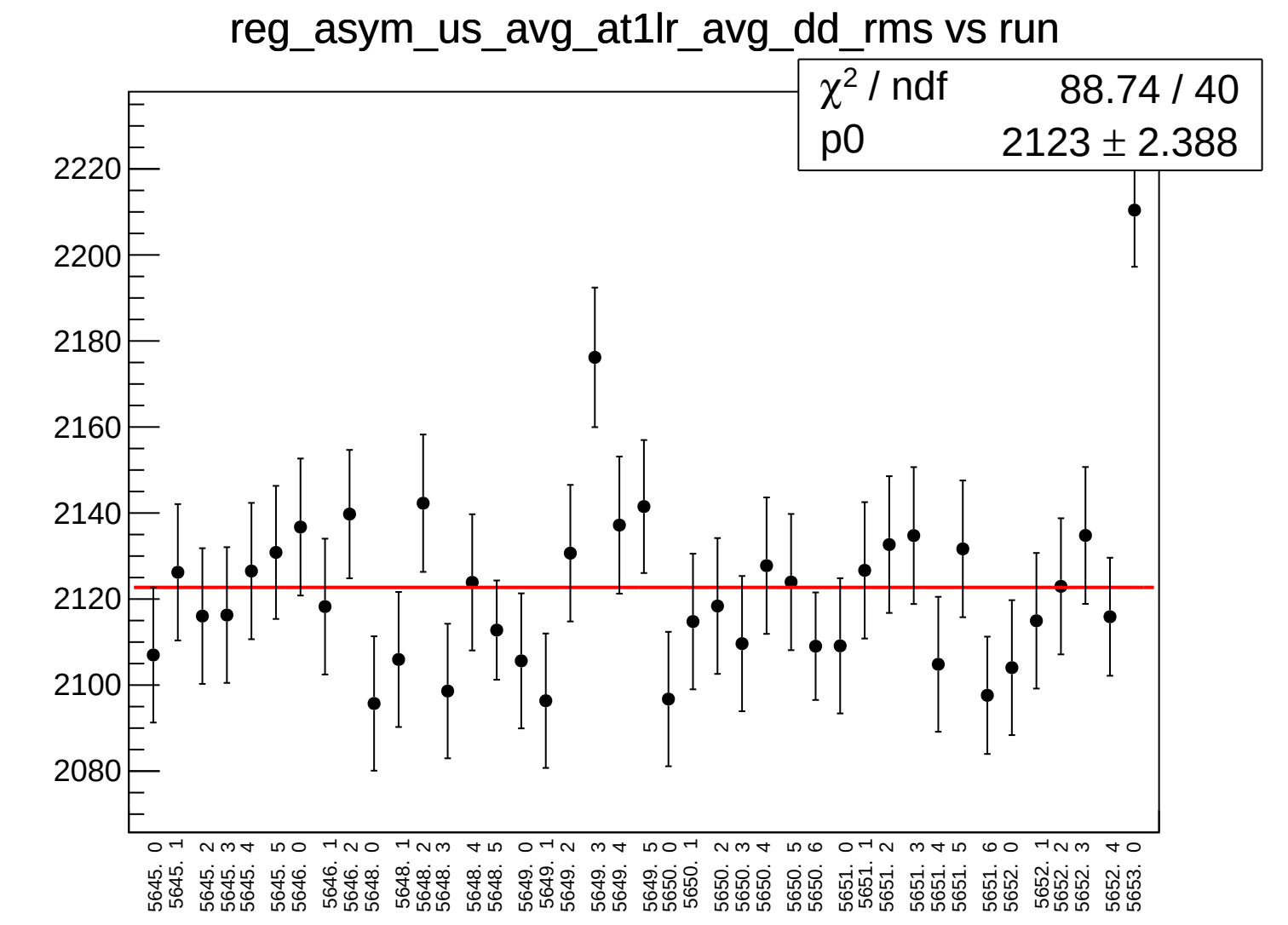

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.86 / 40
p0 3.182e−15 ± 1.195e−13
pull
Entries 41
Mean 22.74
Std Dev 10.85

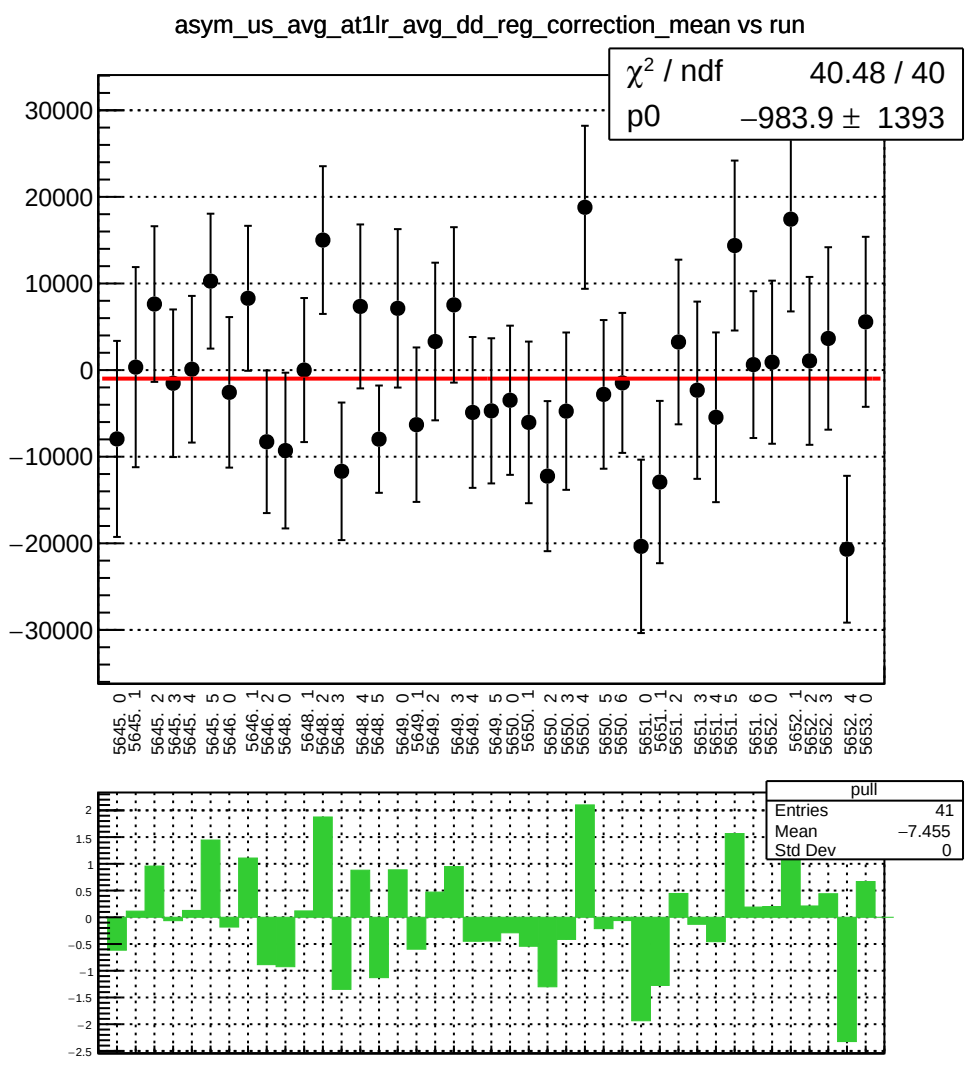

pull1D
Entries 41
Mean −0.1074
Std Dev 0.875

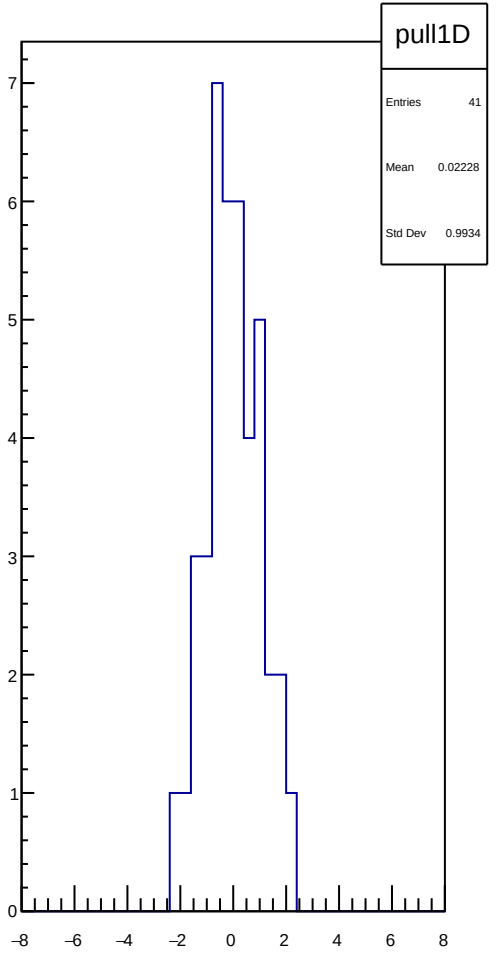

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.419e+05 / 40
p0 5.657e−11 ± 8.447e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

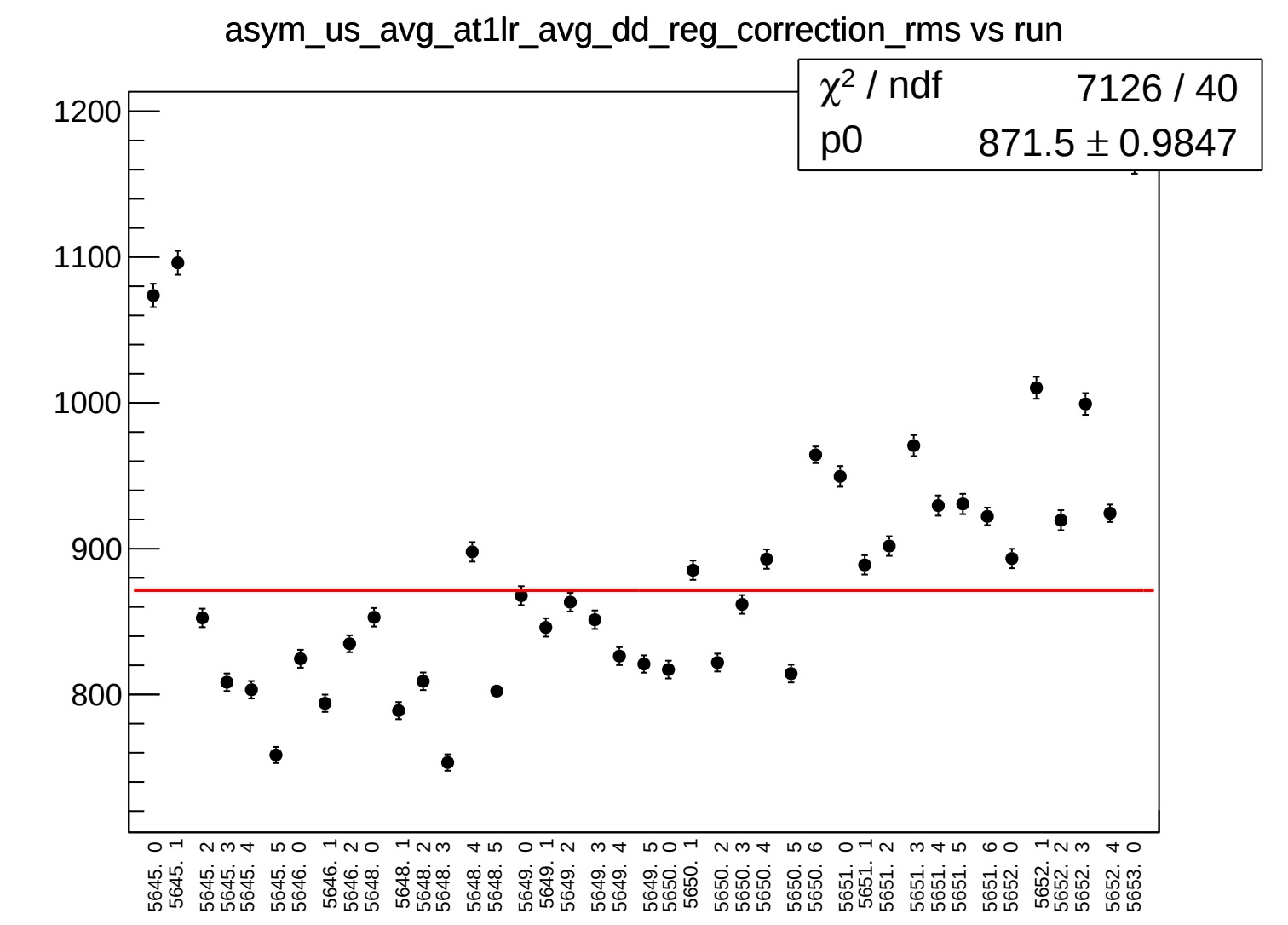

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 34.67 / 40
p0 5931 ± 3377
pull
Entries 41
Mean 230.5
Std Dev 0

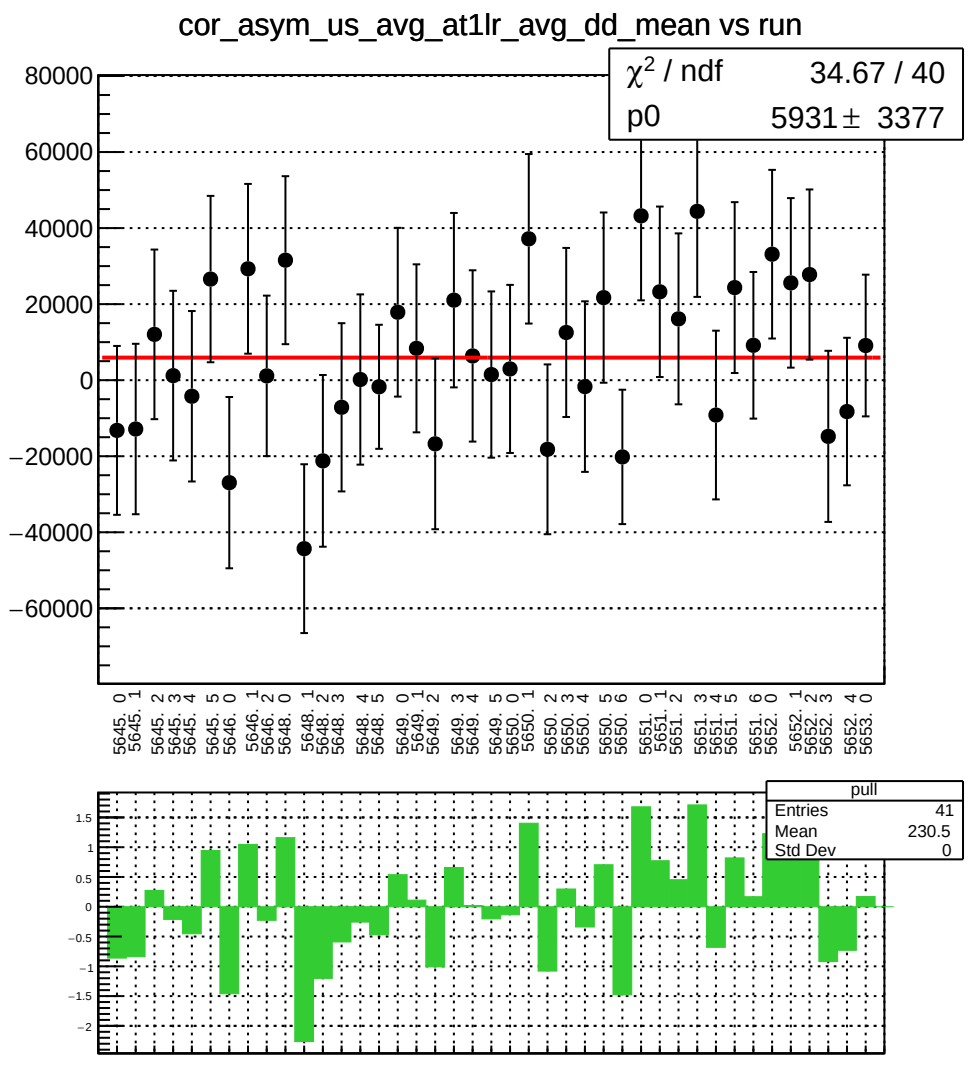

pull1D
Entries 41
Mean 0.01469
Std Dev 0.9195

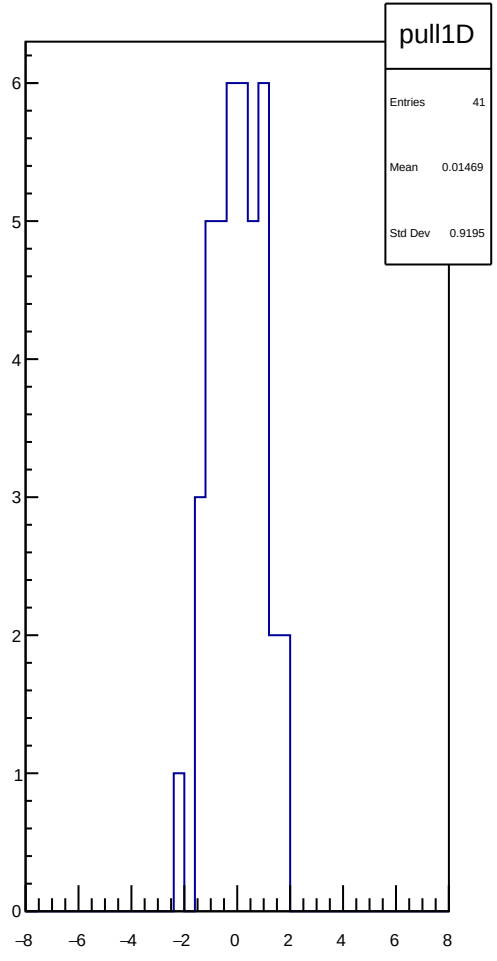

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.74 / 40
p0 2123 ± 2.388
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

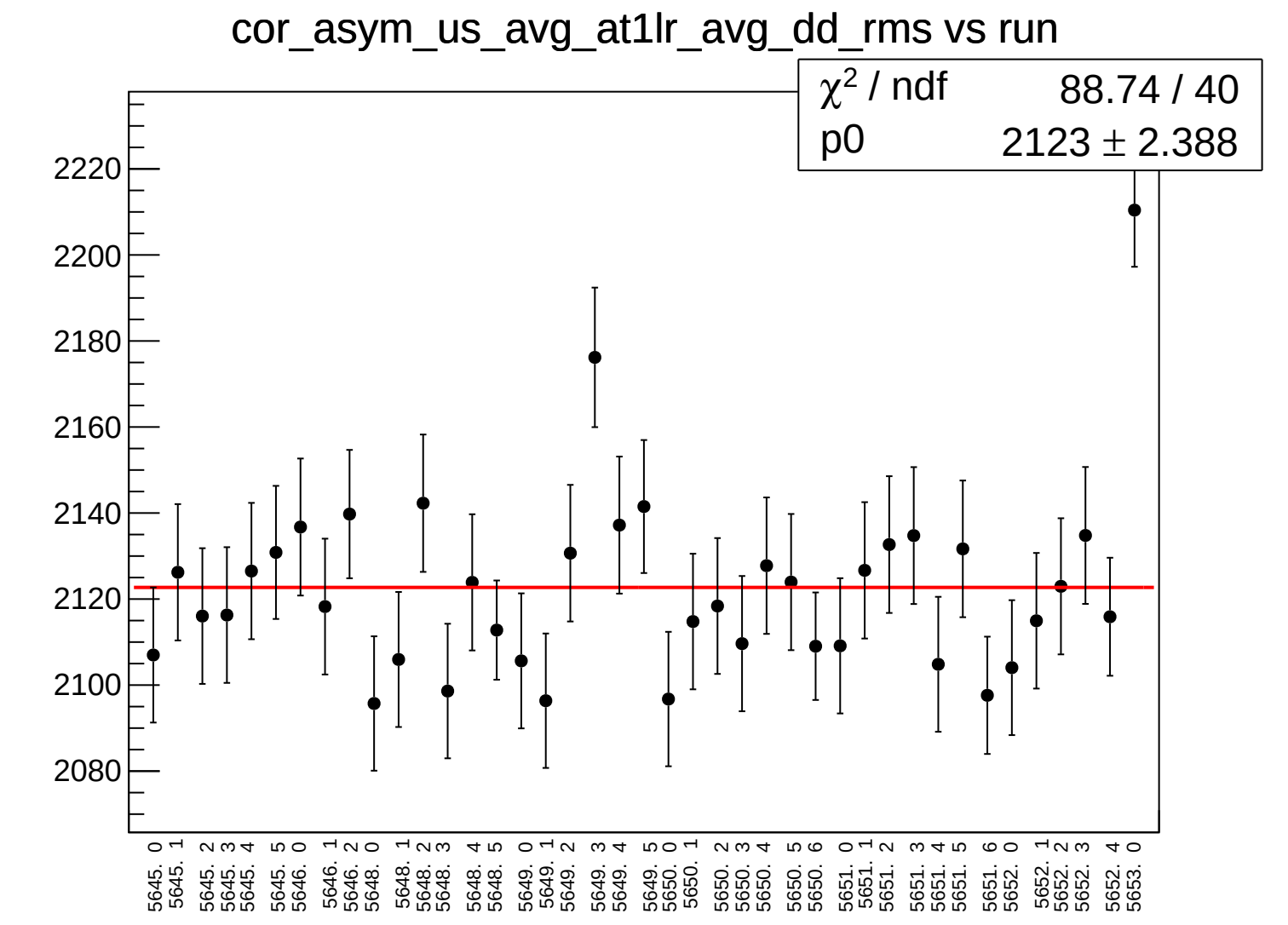

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 40.48 / 40
p0 −983.9 ± 1393
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.455
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

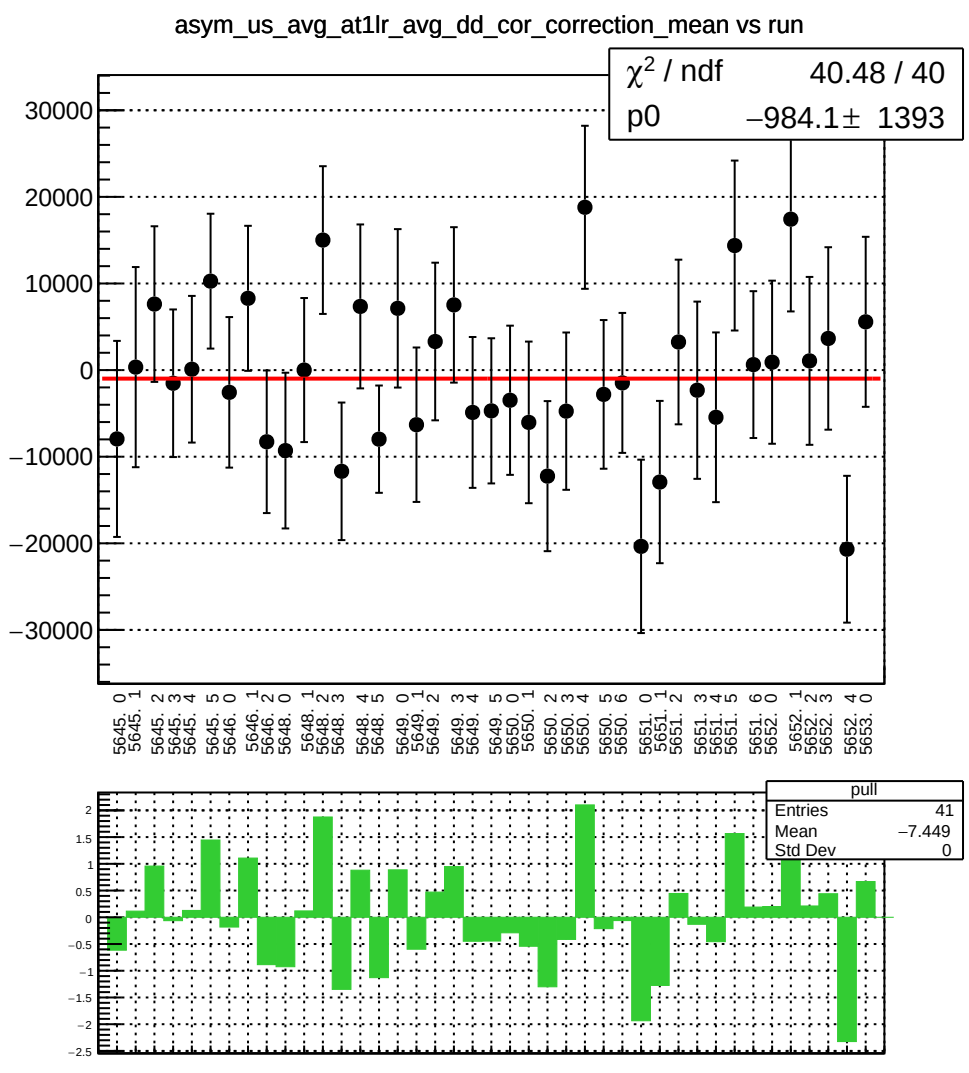

pull1D
Entries 41
Mean 0.02228
Std Dev 0.9934
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

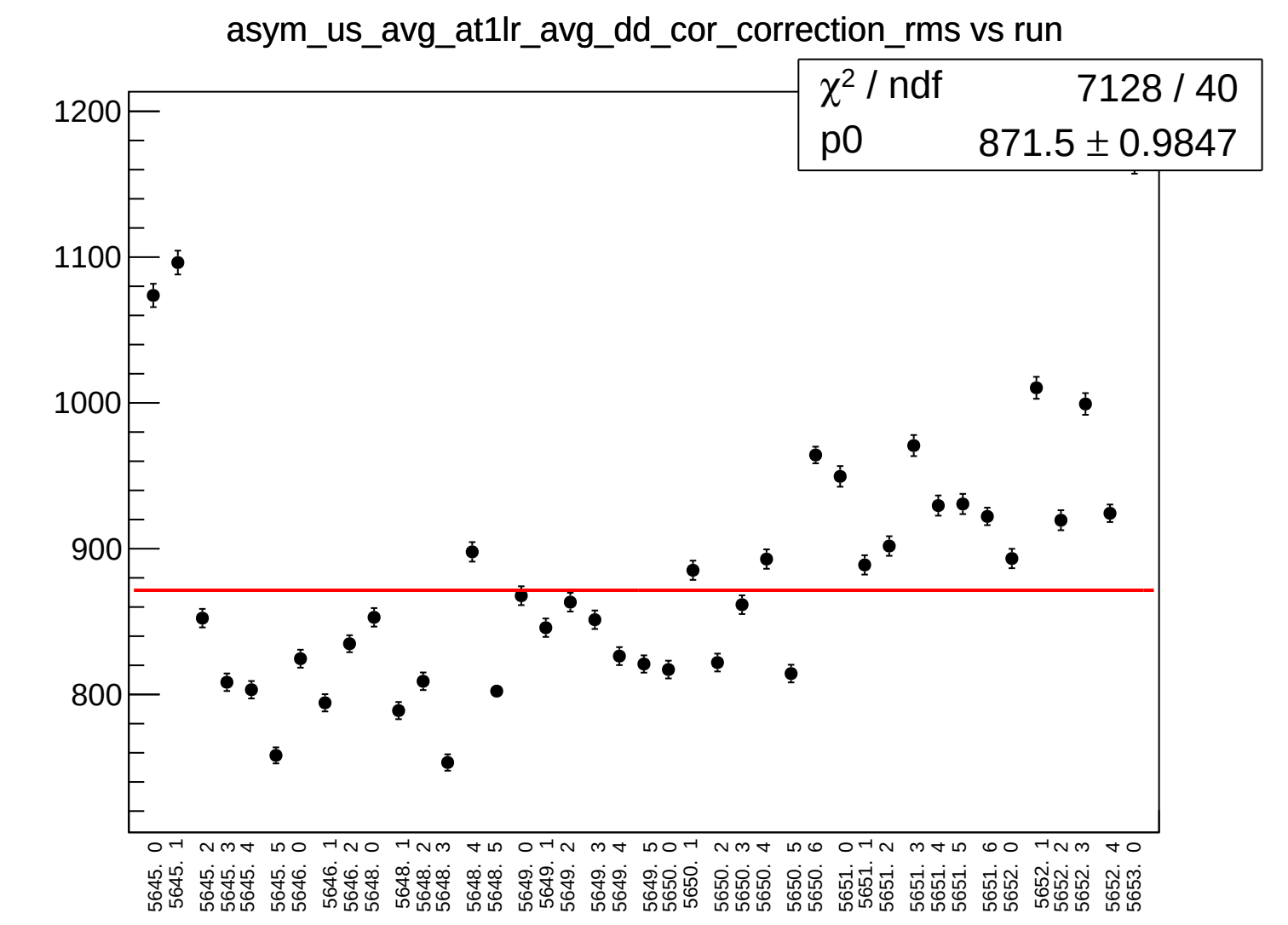

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7126 / 40
p0 871.5 ± 0.9847
1200
1100
1000
900
800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

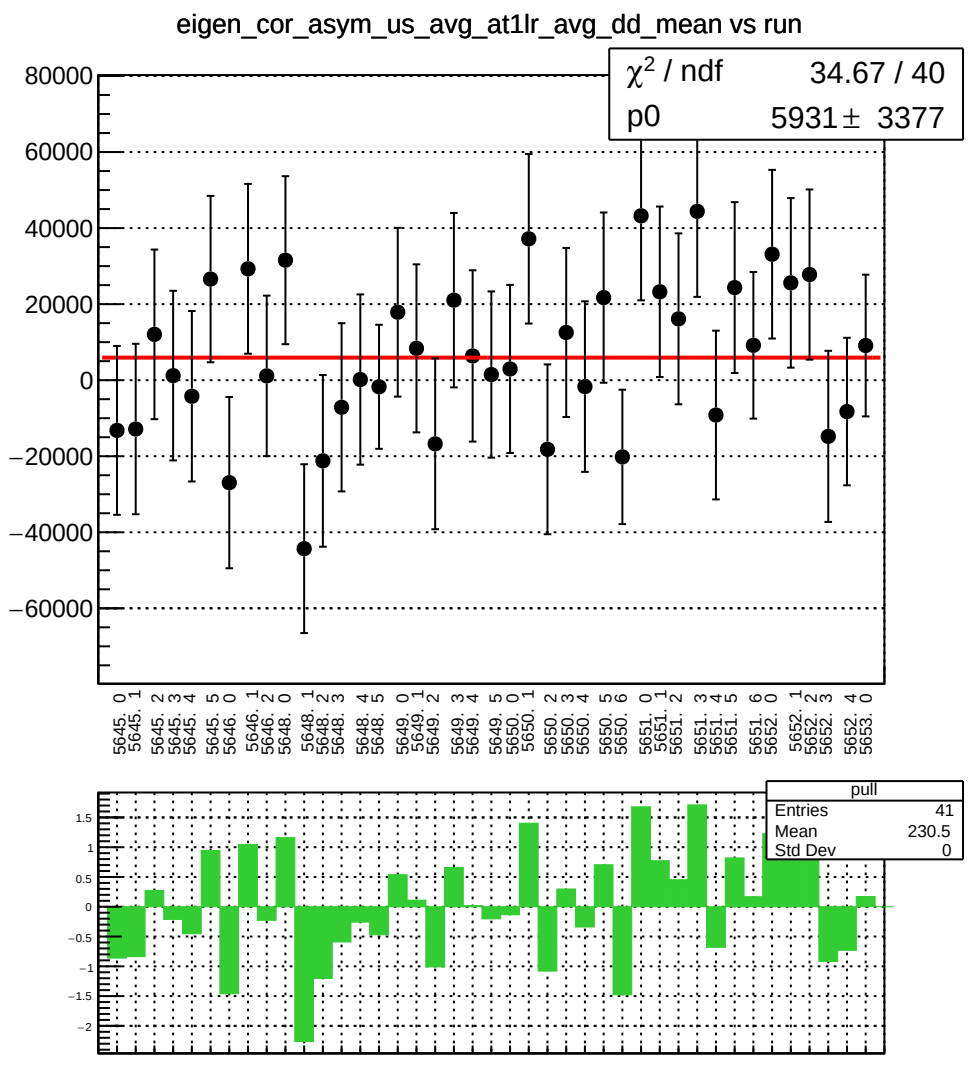

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 34.67 / 40
p0 5931 ± 3377
pull
Entries 41
Mean 230.5
Std Dev 0

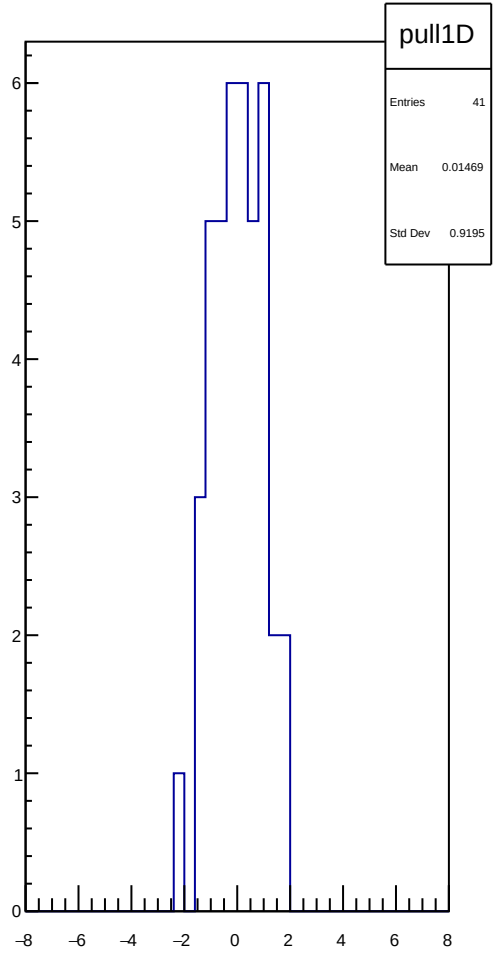

pull1D
Entries 41
Mean 0.01469
Std Dev 0.9195

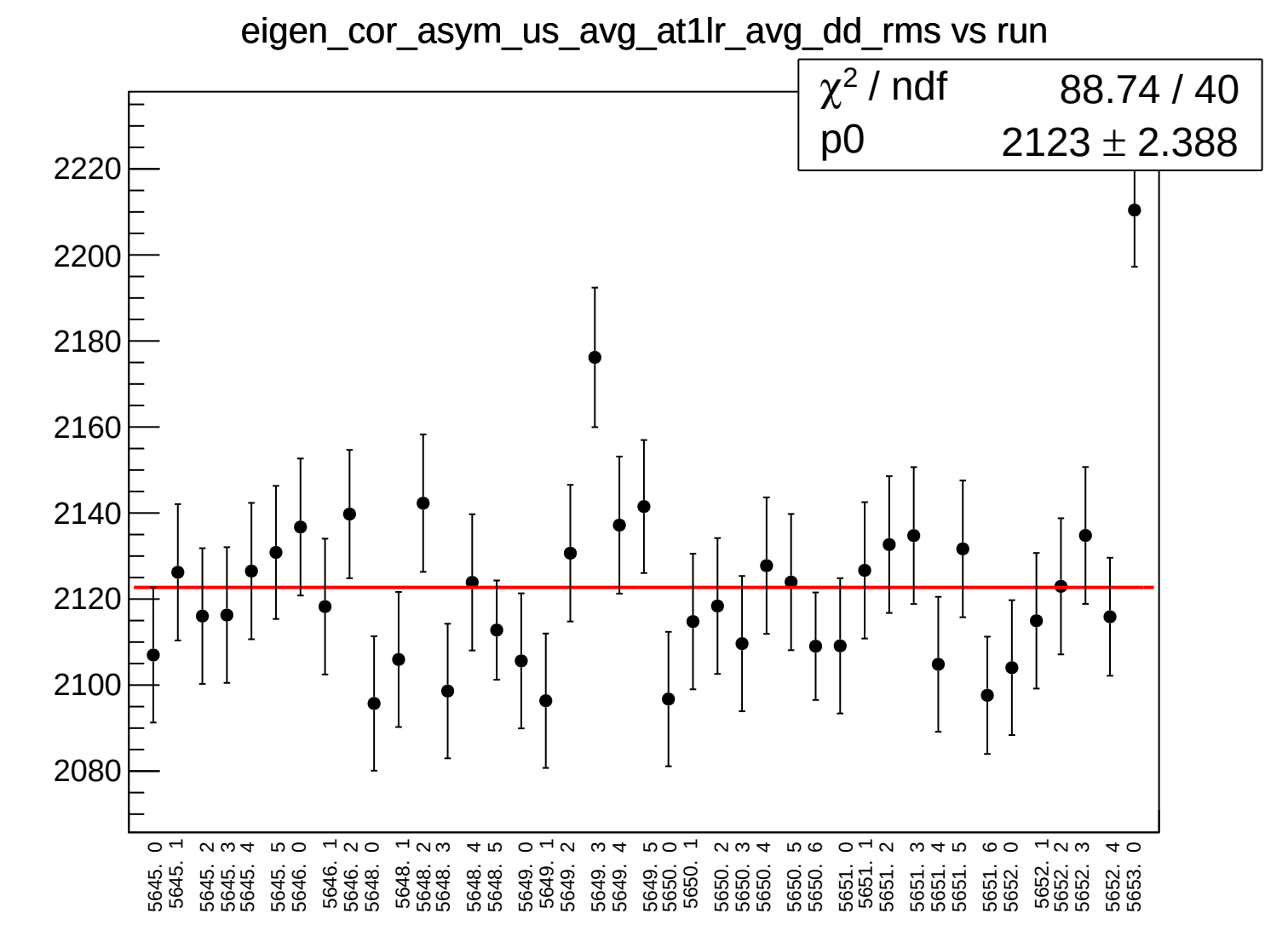

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.74 / 40
p0 2123 ± 2.388
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

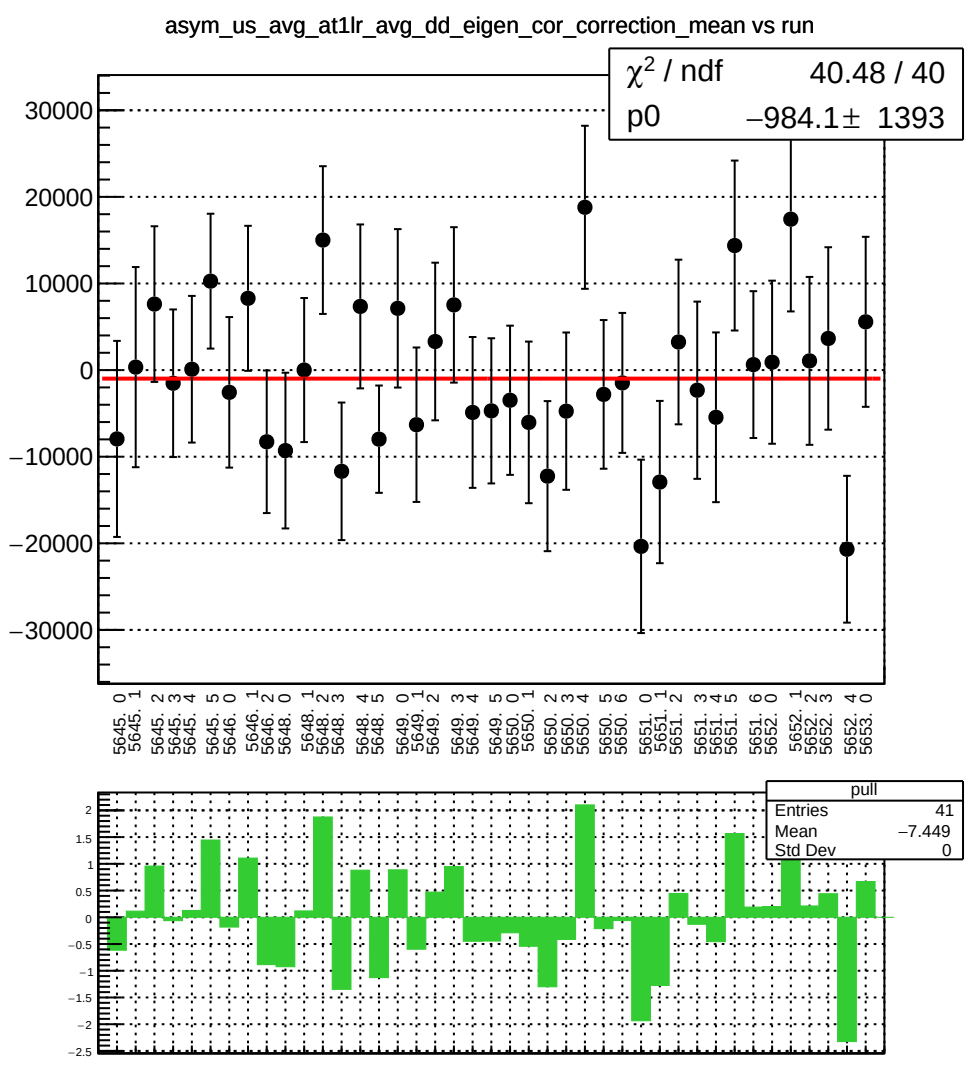

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 40.48 / 40
p0 −984.1± 1393
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.449
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.02228
Std Dev 0.9934
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

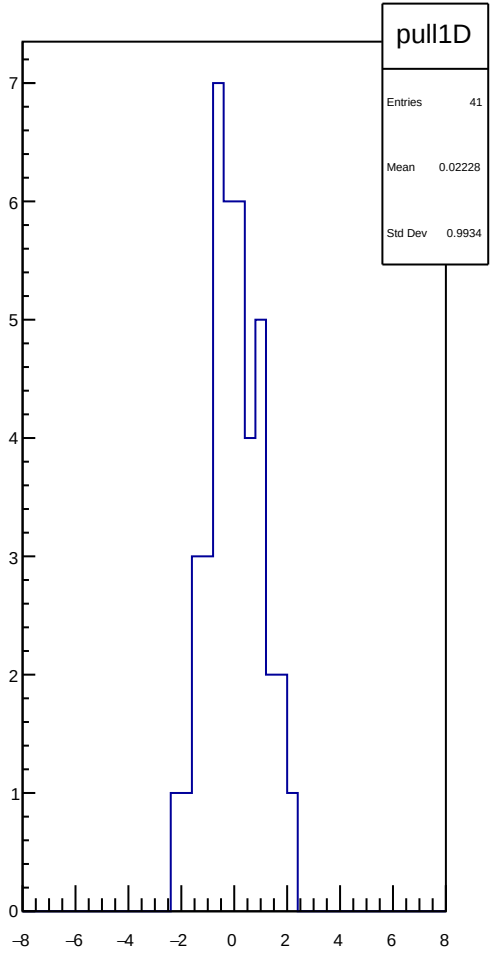

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7128 / 40
p0 871.5 ± 0.9847
1200
1100
1000
900
800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

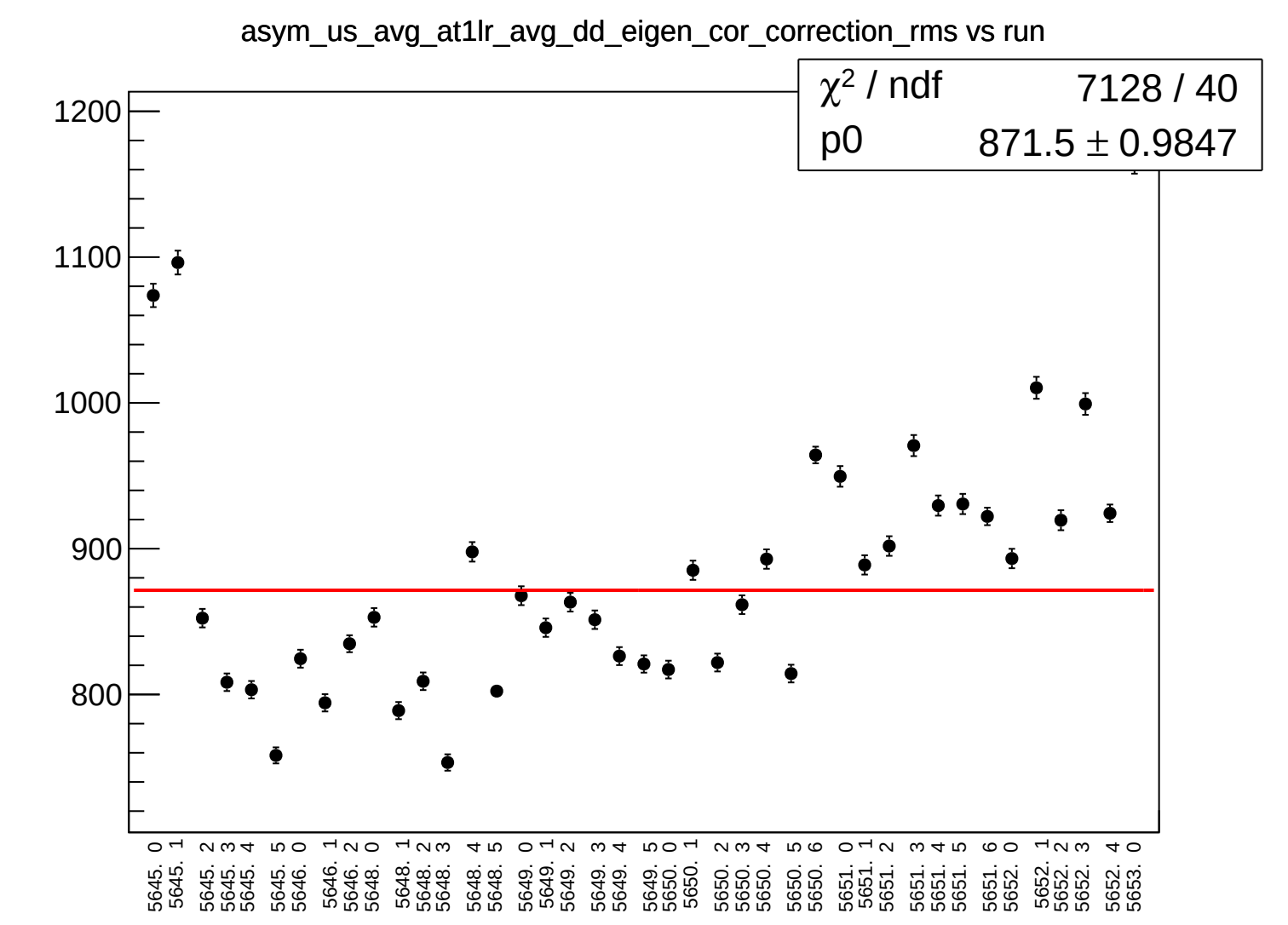

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 34.67 / 40
p0 5931 ± 3377
pull
Entries 41
Mean 230.5
Std Dev 0

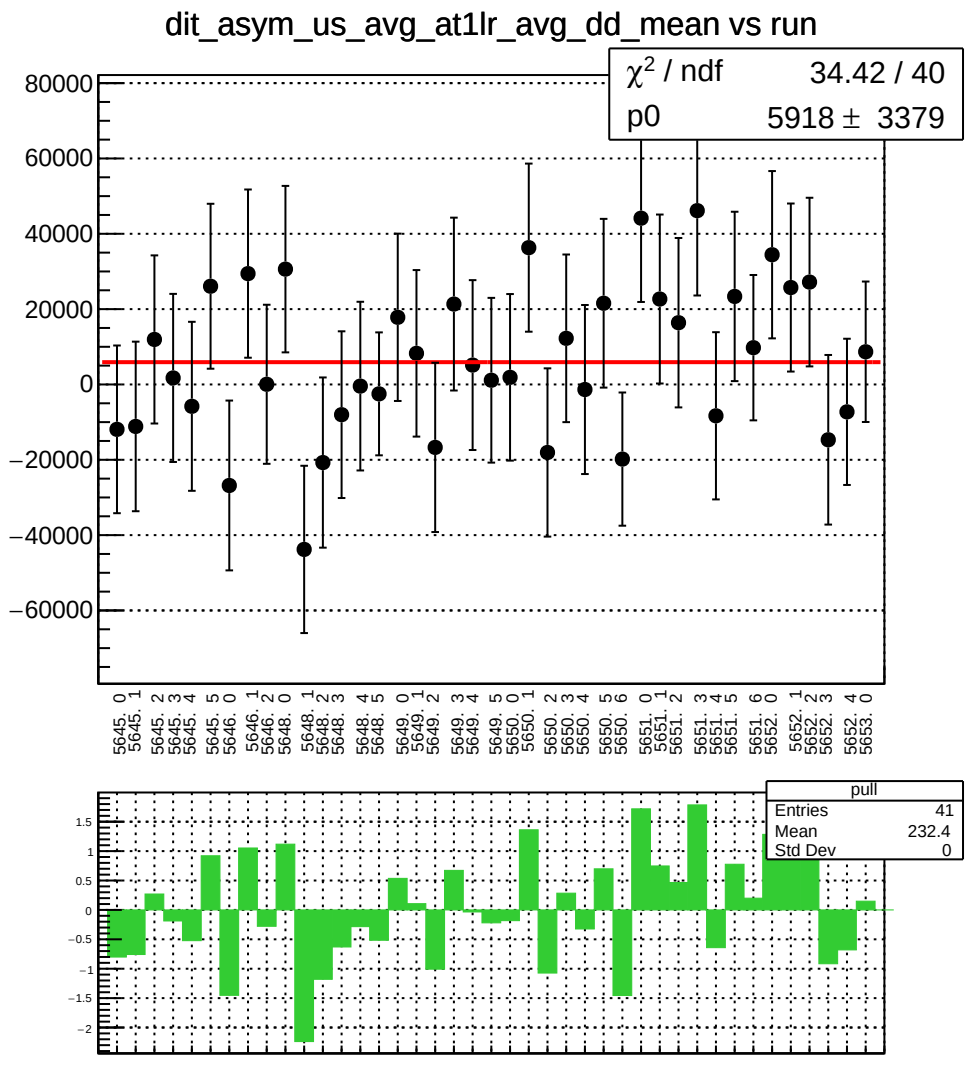

pull1D
Entries 41
Mean 0.01469
Std Dev 0.9195

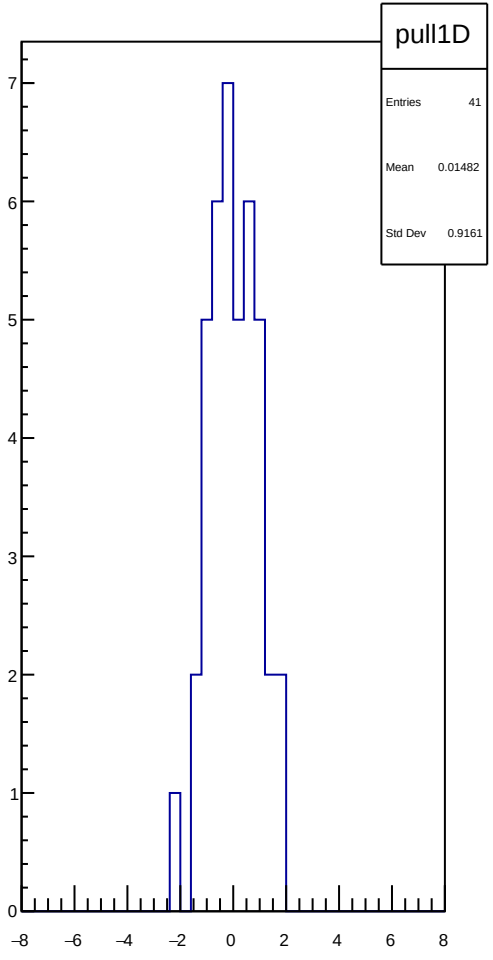

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.74 / 40
p0 2123 ± 2.388
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

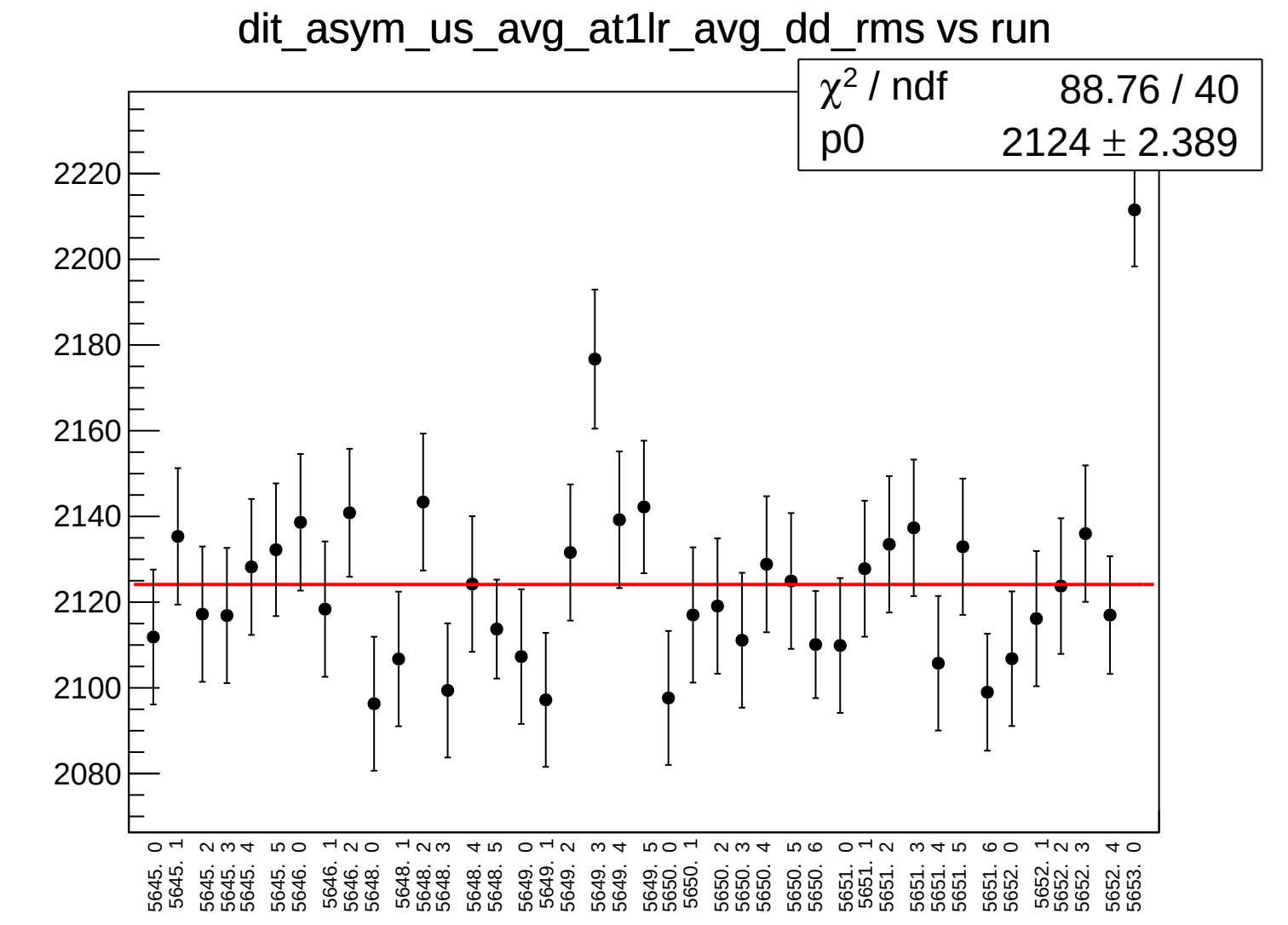

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 40.48 / 40
p0 −984.1± 1393
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.449
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

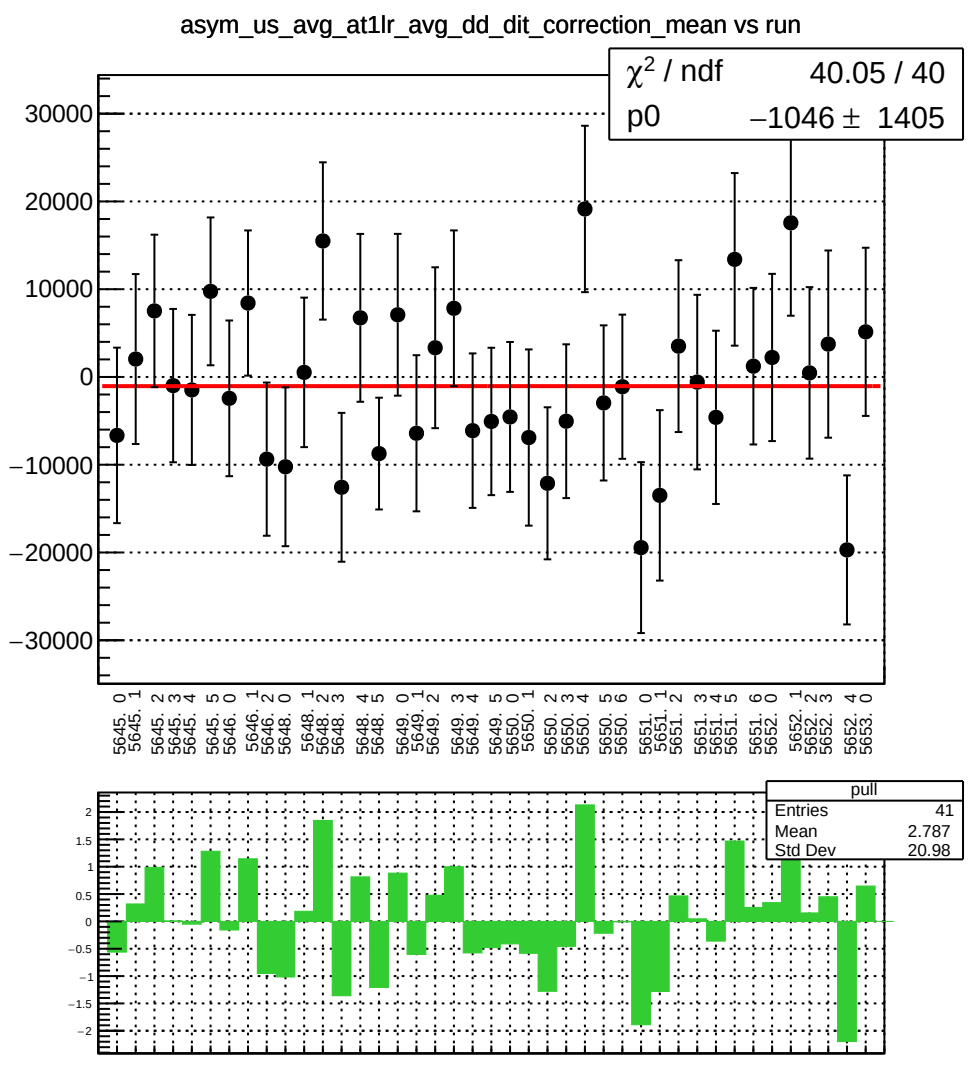

pull1D
Entries 41
Mean 0.02228
Std Dev 0.9934
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

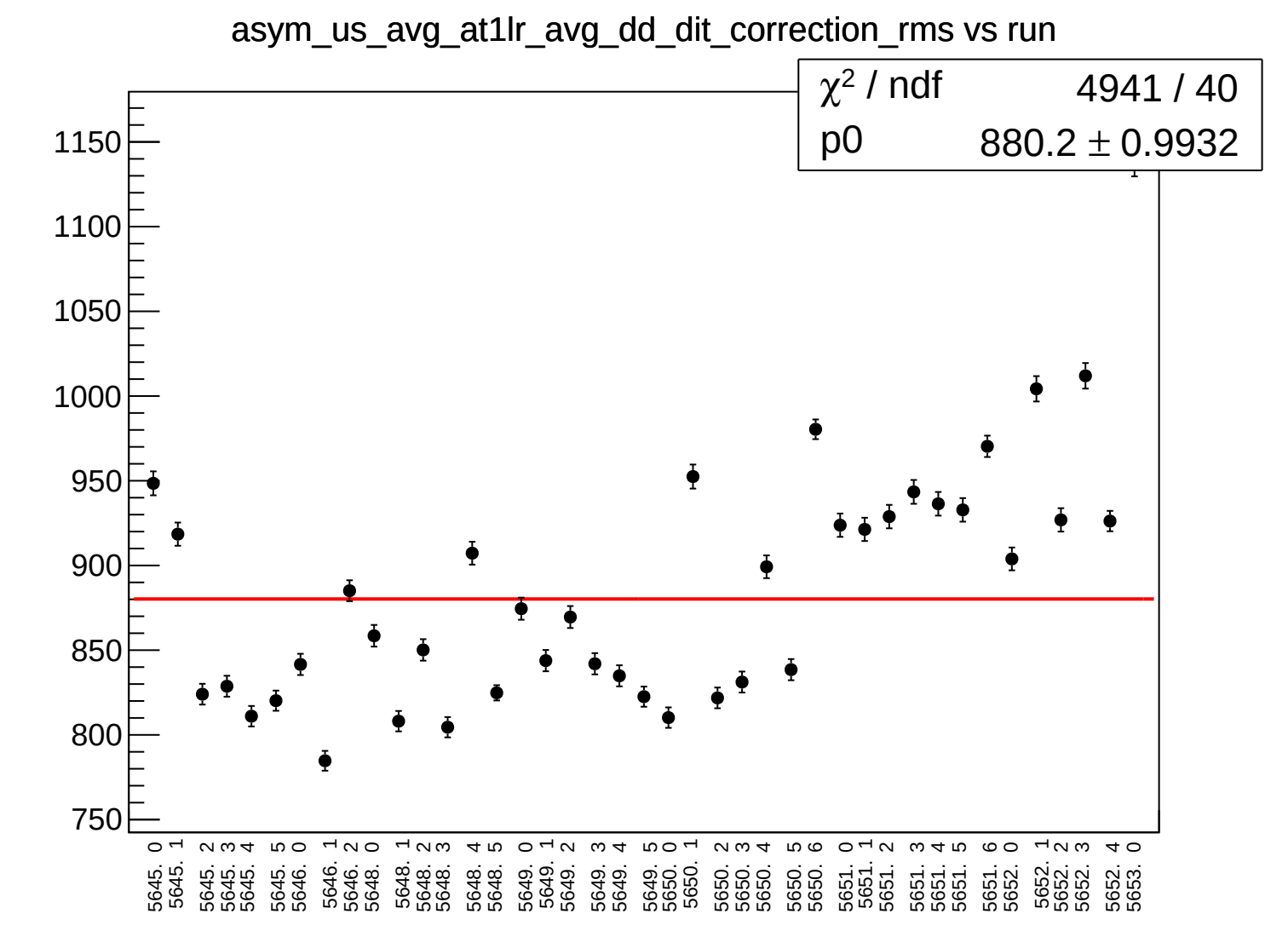

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7128 / 40
p0 871.5 ± 0.9847
1200
1100
1000
900
800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

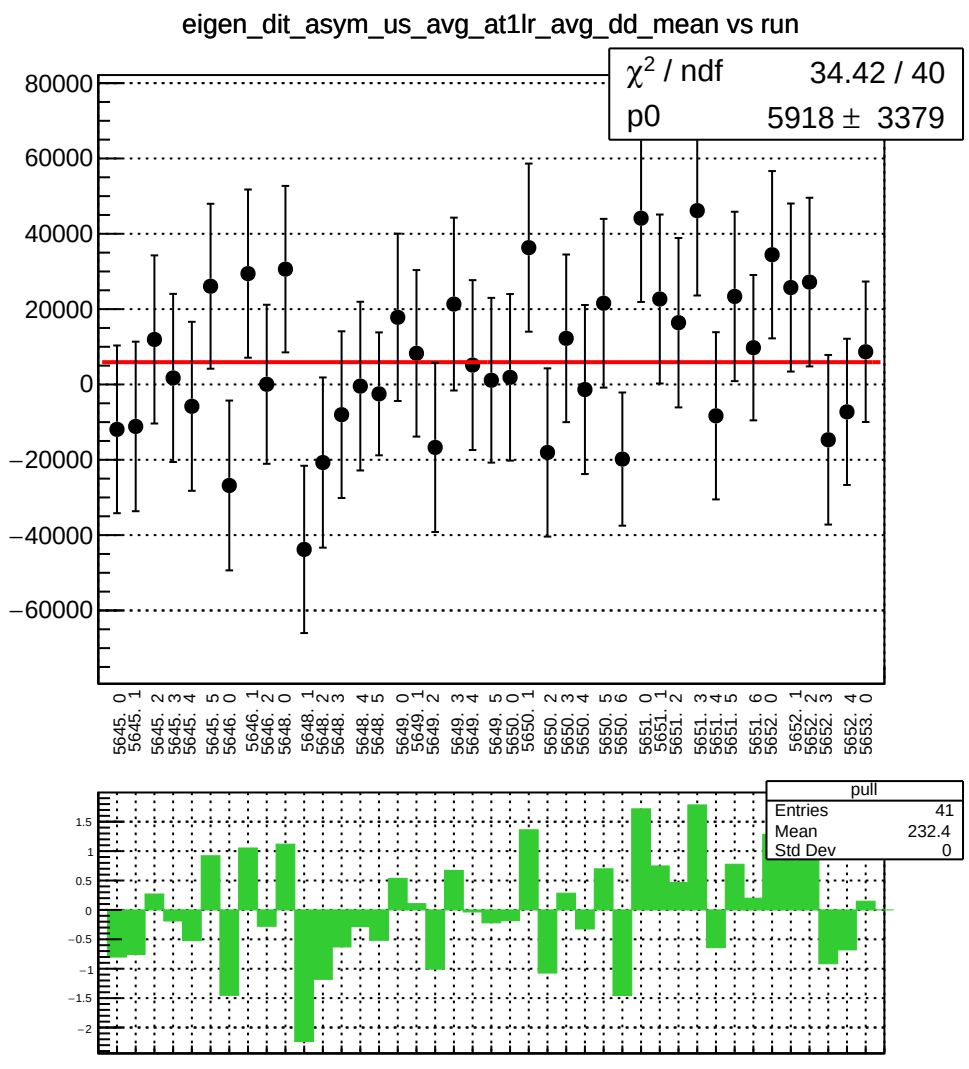

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 34.42 / 40
p0 5918 ± 3379
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 232.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

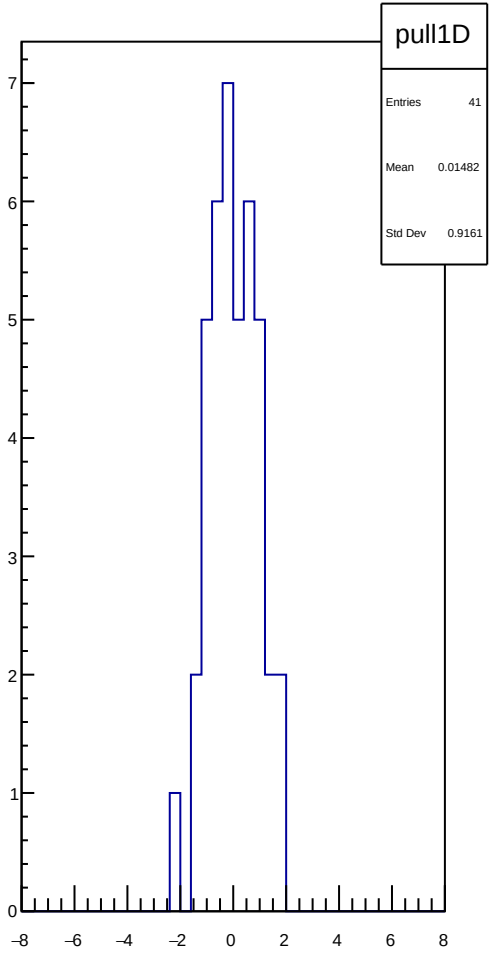

pull1D
Entries 41
Mean 0.01482
Std Dev 0.9161
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

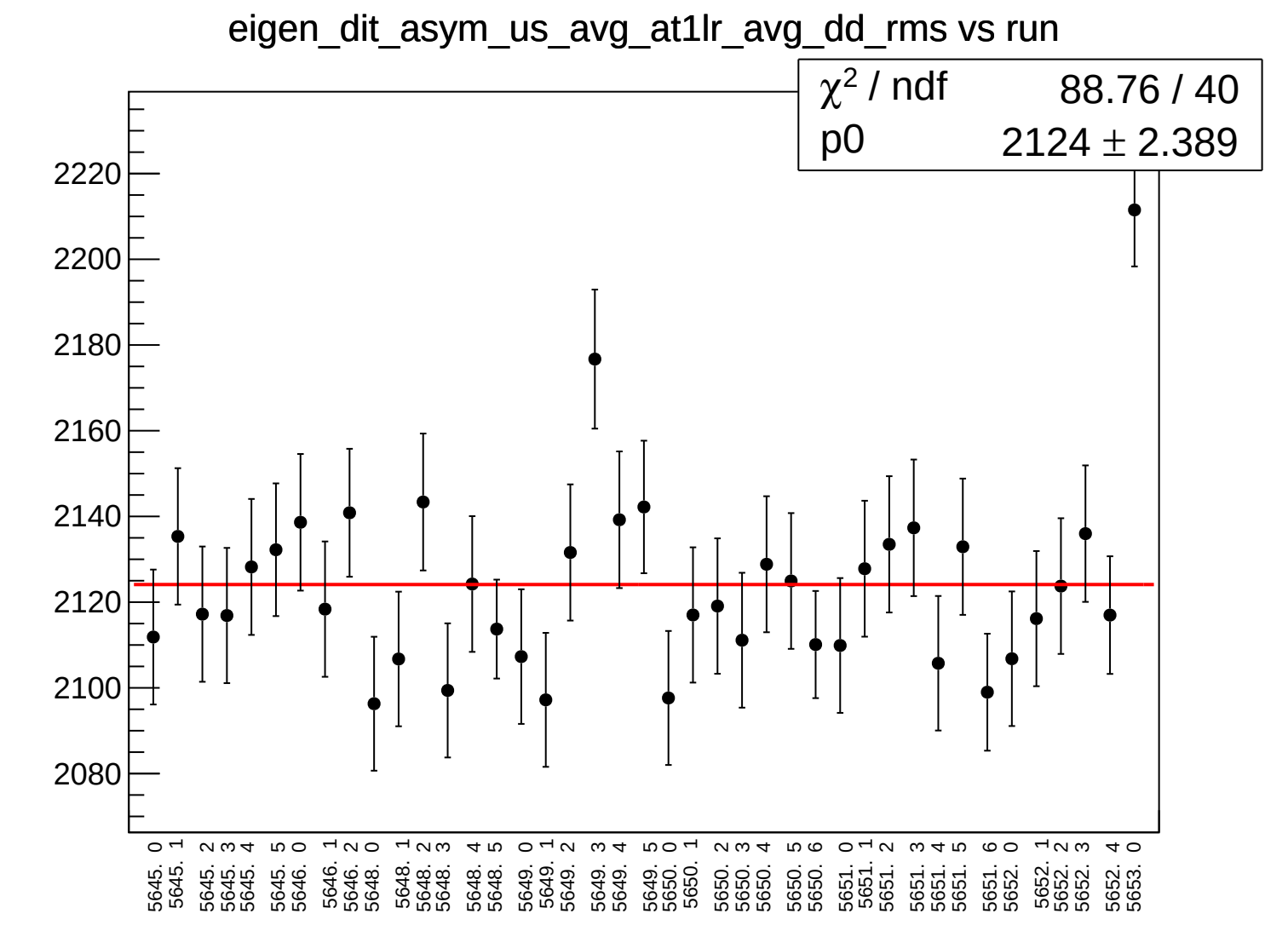

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.76 / 40
p0 2124 ± 2.389
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

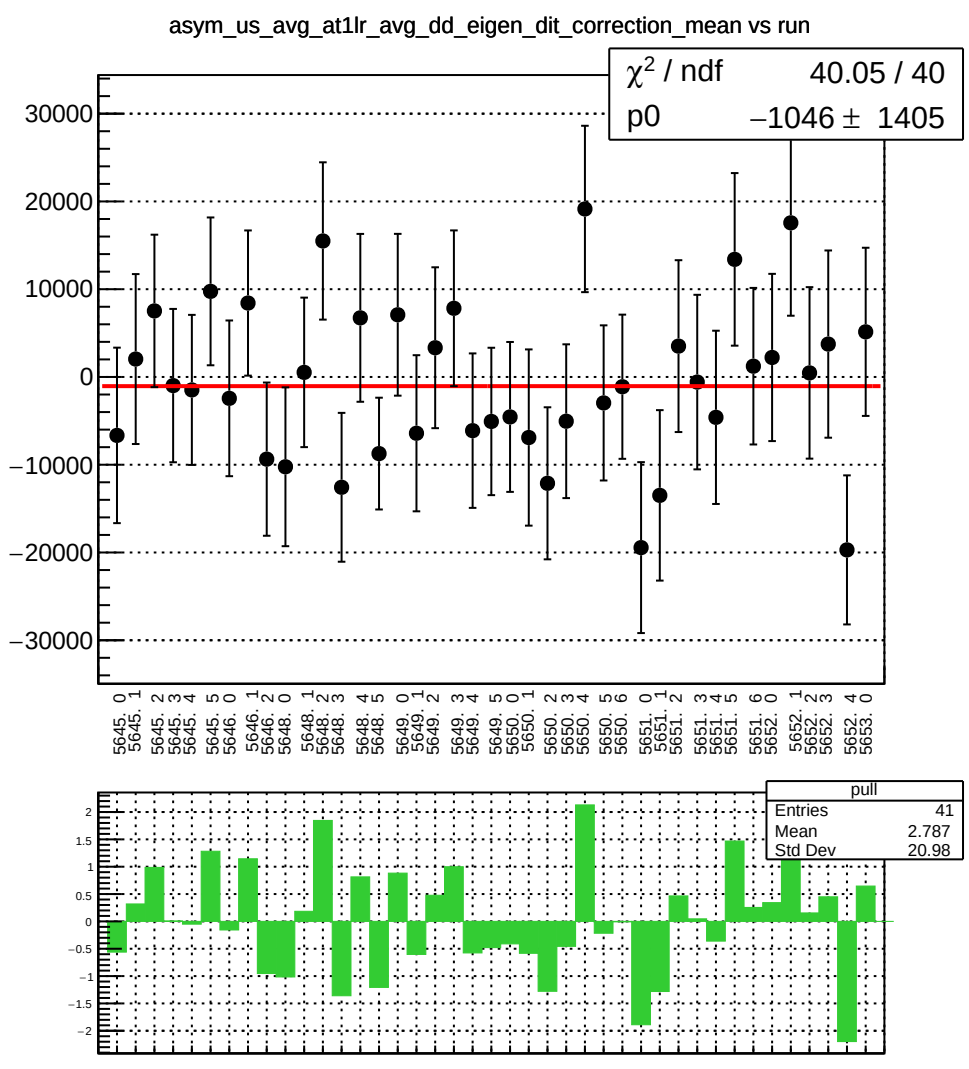

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 40.05 / 40
p0 −1046 ± 1405
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2.787
Std Dev 20.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.02486
Std Dev 0.988
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

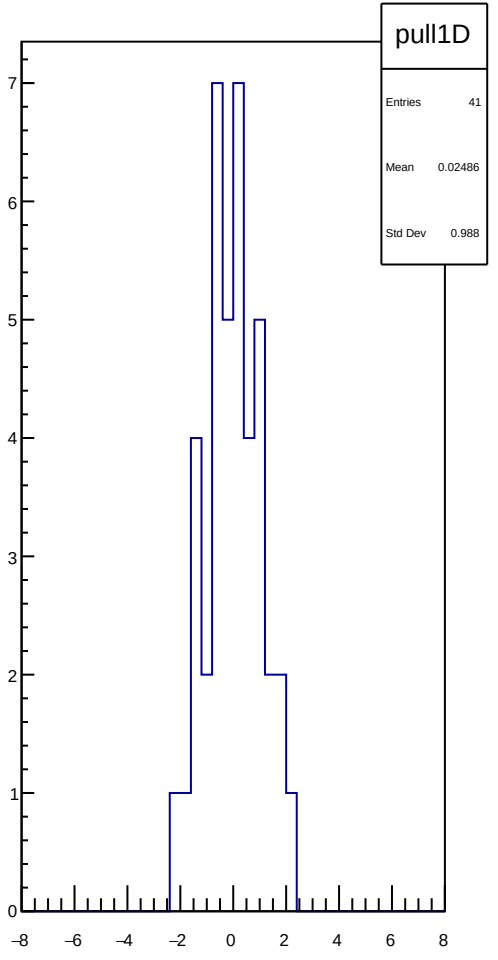

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4941 / 40
p0 880.2 ± 0.9932
1150
1100
1050
1000
950
900
850
800
750
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

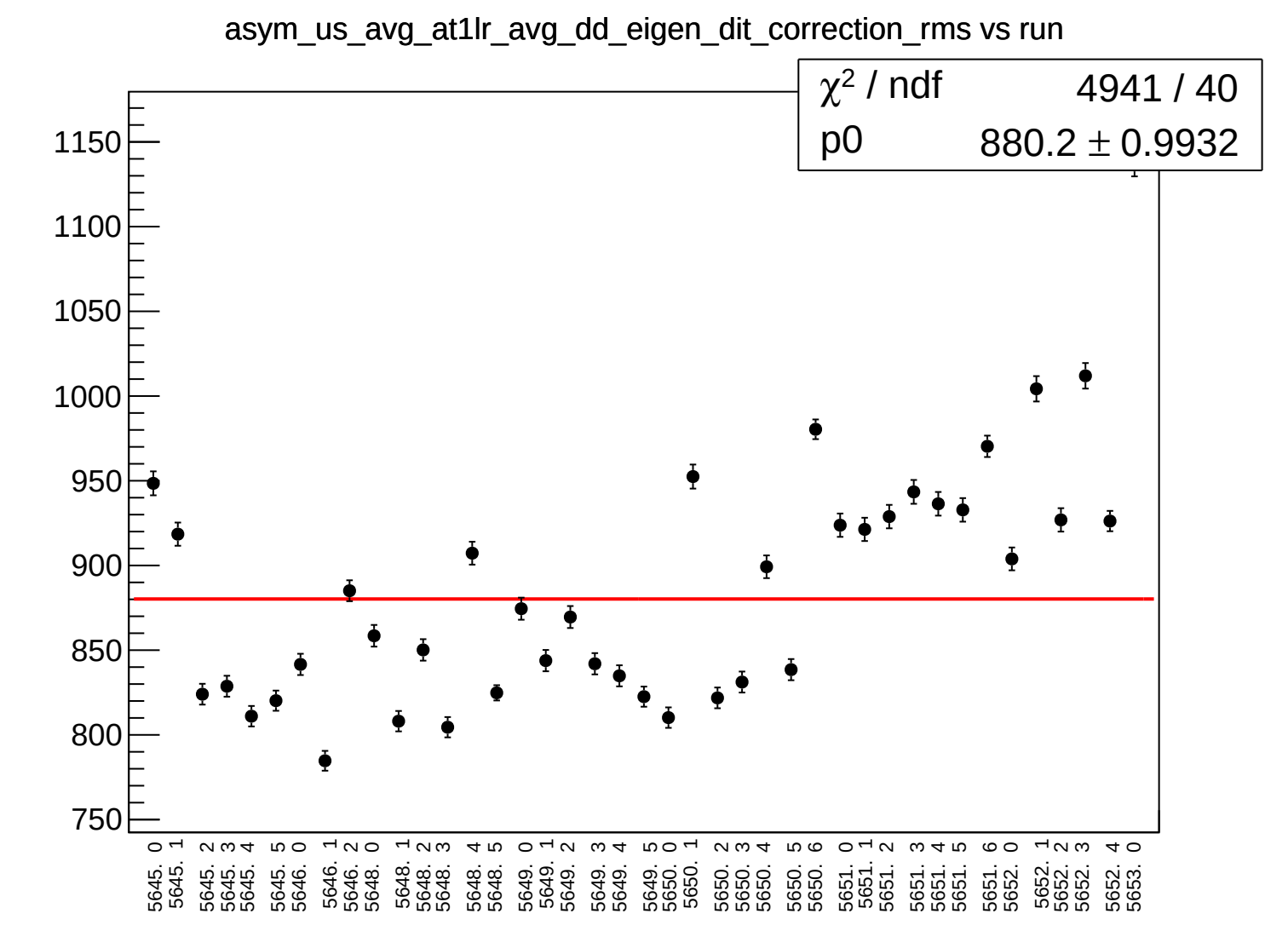

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 34.42 / 40
p0 5918 ± 3379
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 232.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

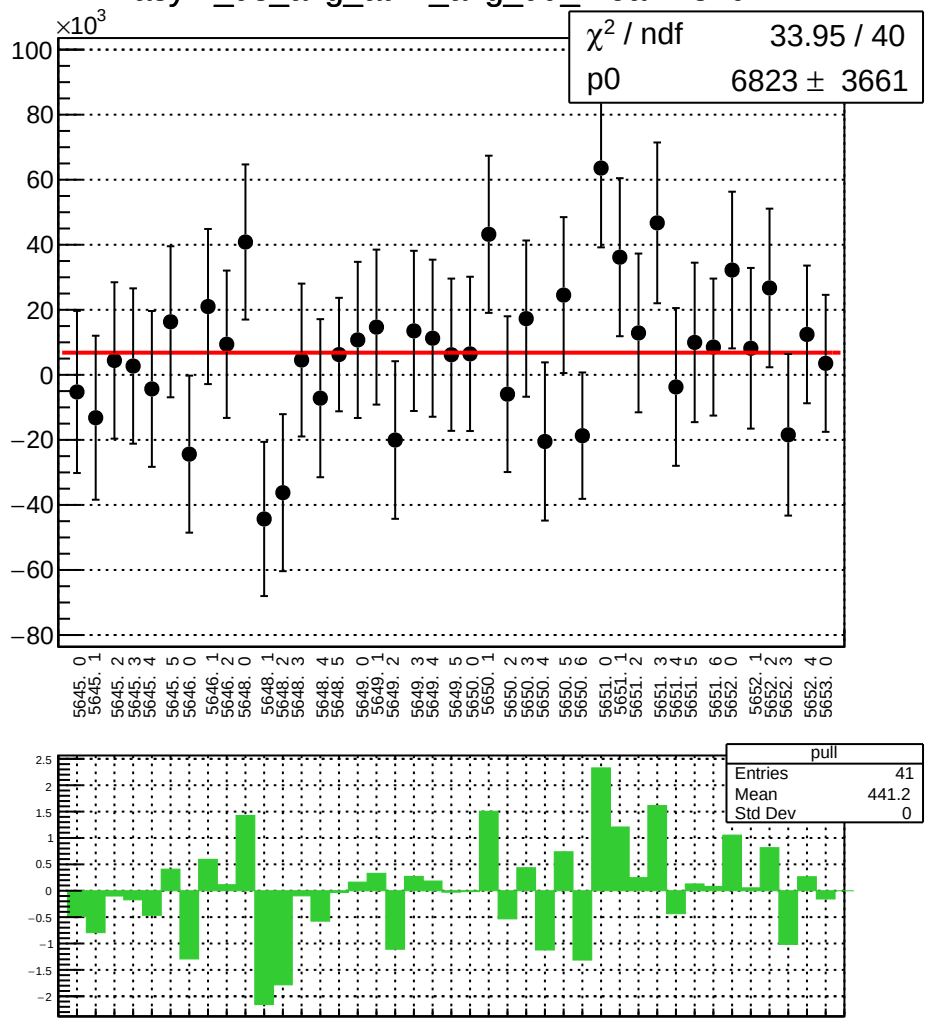

pull1D
Entries 41
Mean 0.01482
Std Dev 0.9161
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

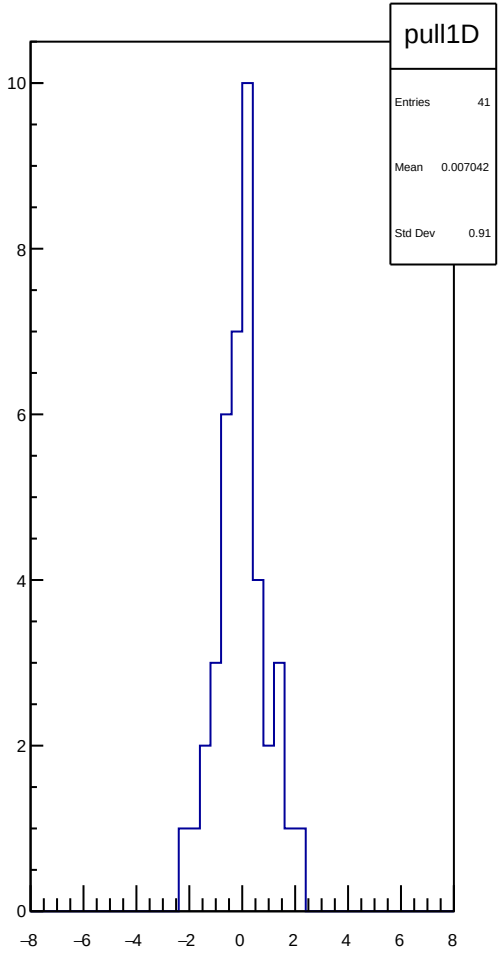

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 88.76 / 40
p0 2124 ± 2.389
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

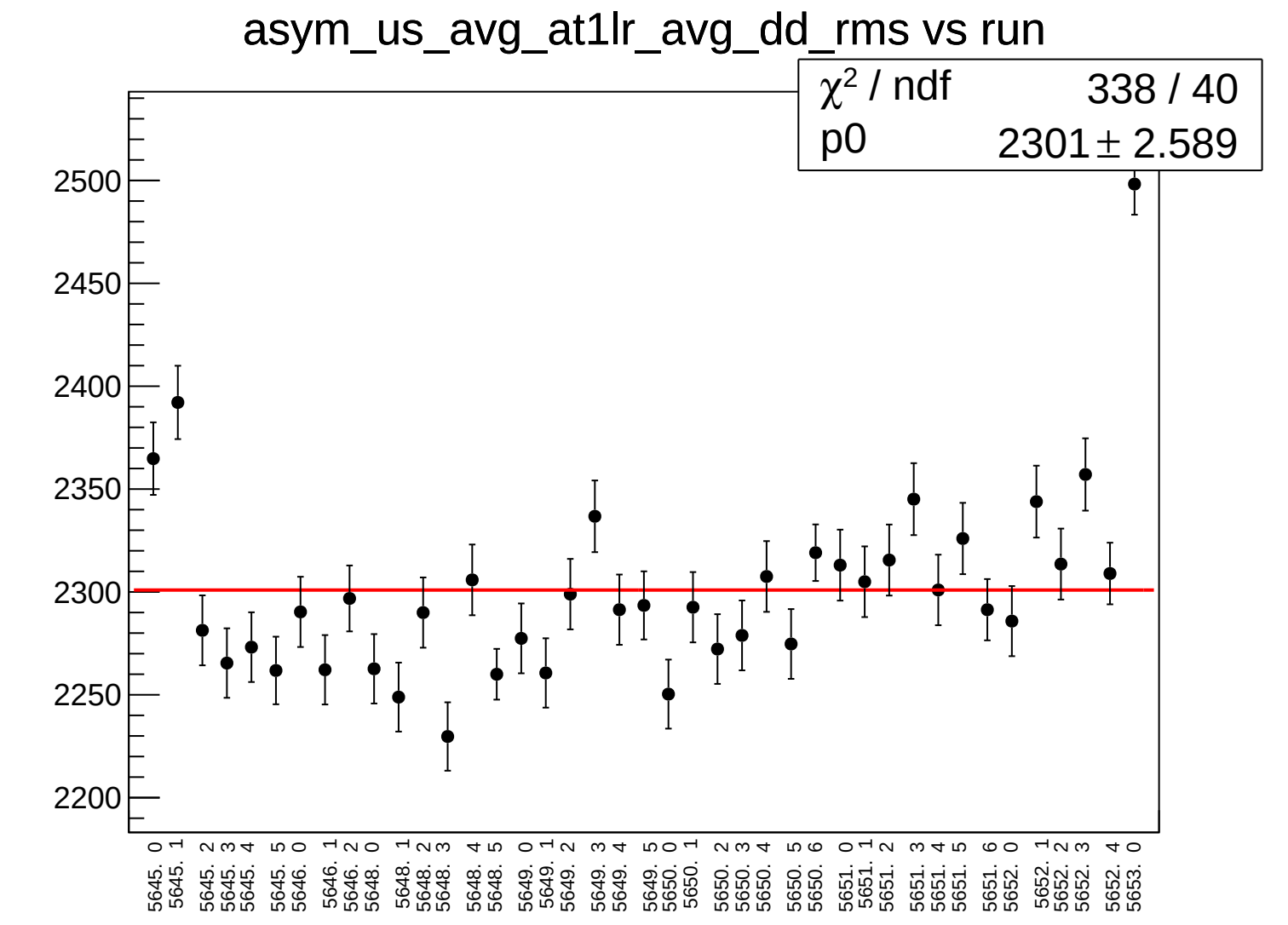

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.05 / 40
p0 −1046 ± 1405
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2.787
Std Dev 20.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

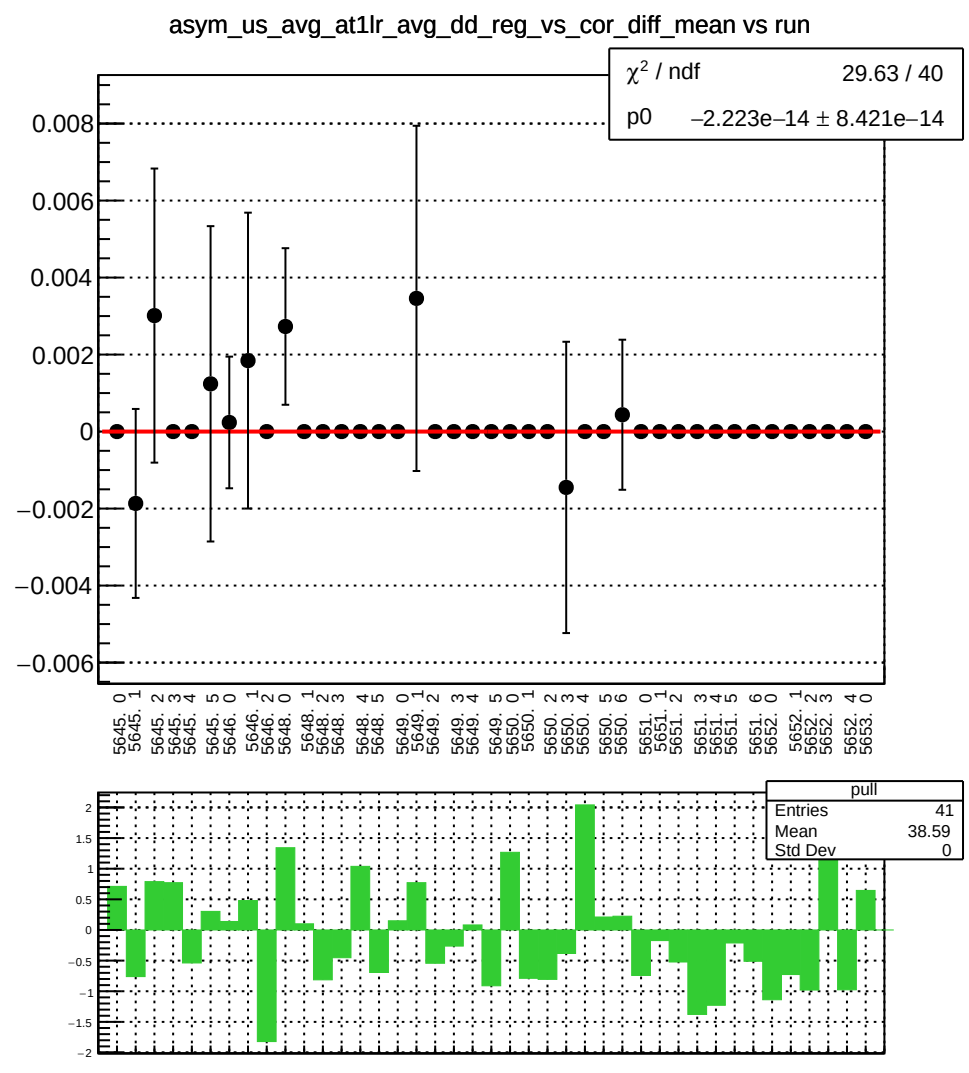

pull1D
Entries 41
Mean 0.02486
Std Dev 0.988
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

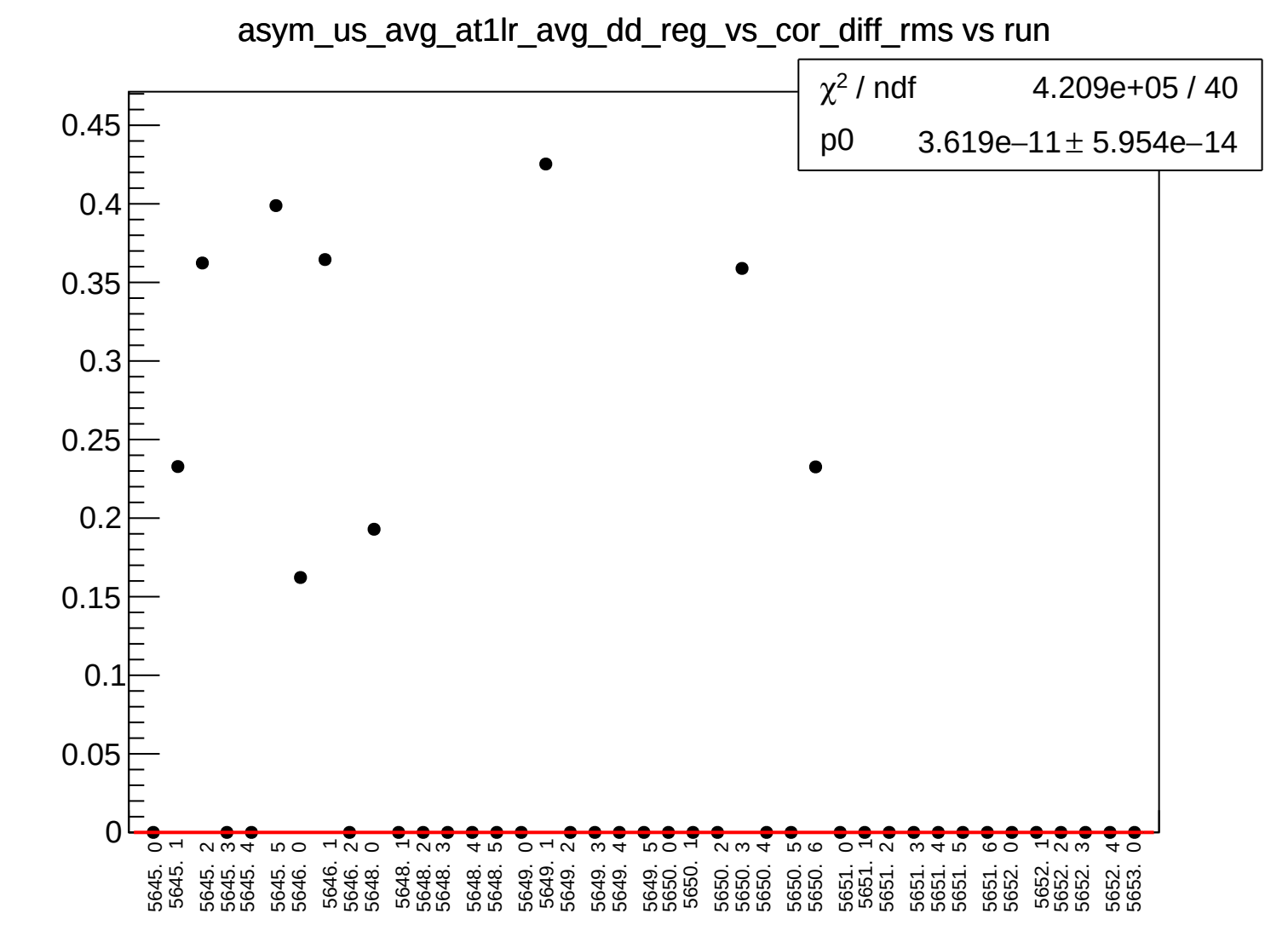

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4941 / 40
p0 880.2 ± 0.9932
1150
1100
1050
1000
950
900
850
800
750
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

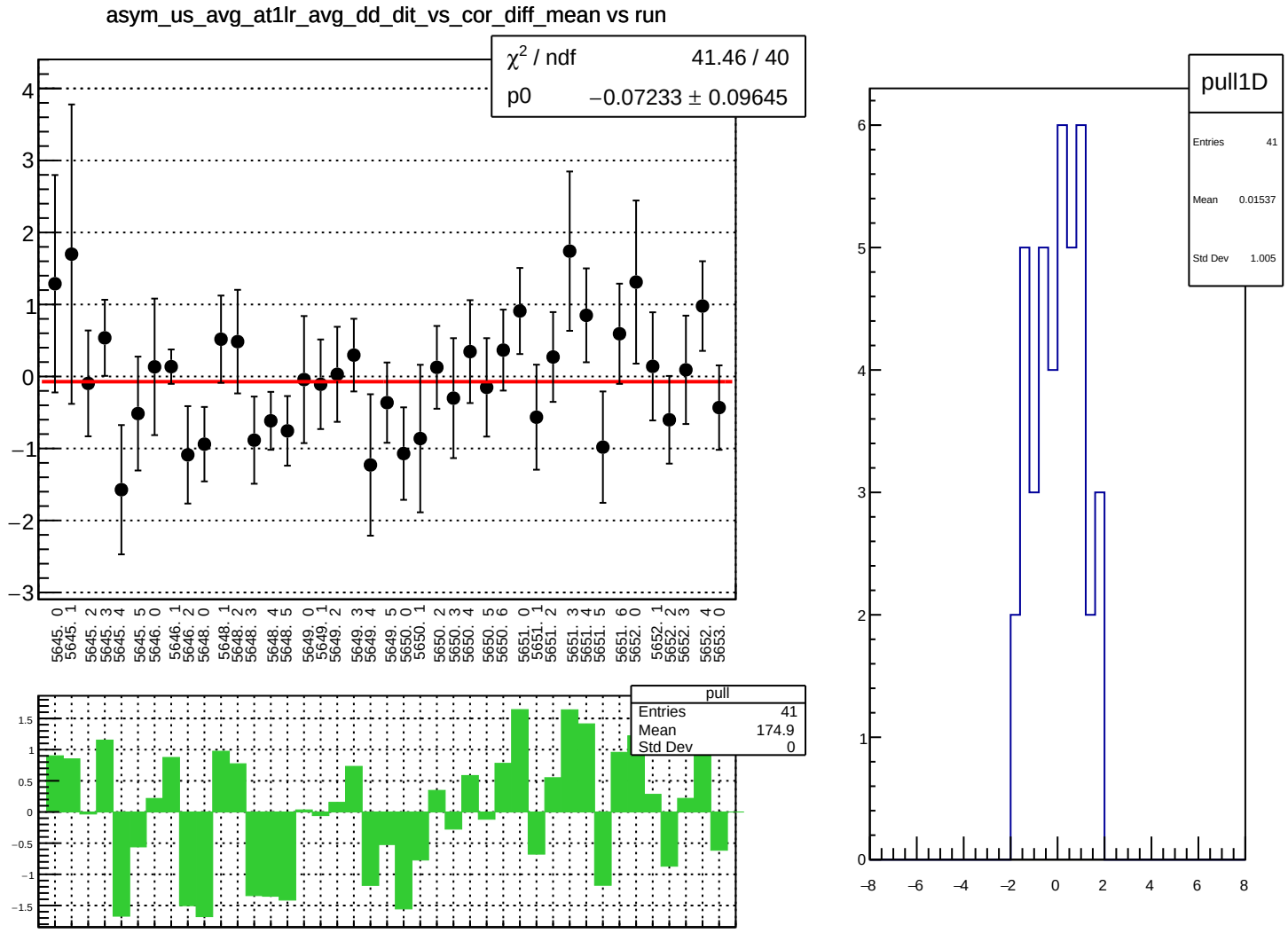

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 33.95 / 40
p0 6823 ± 3661
pull
Entries 41
Mean 441.2
Std Dev 0

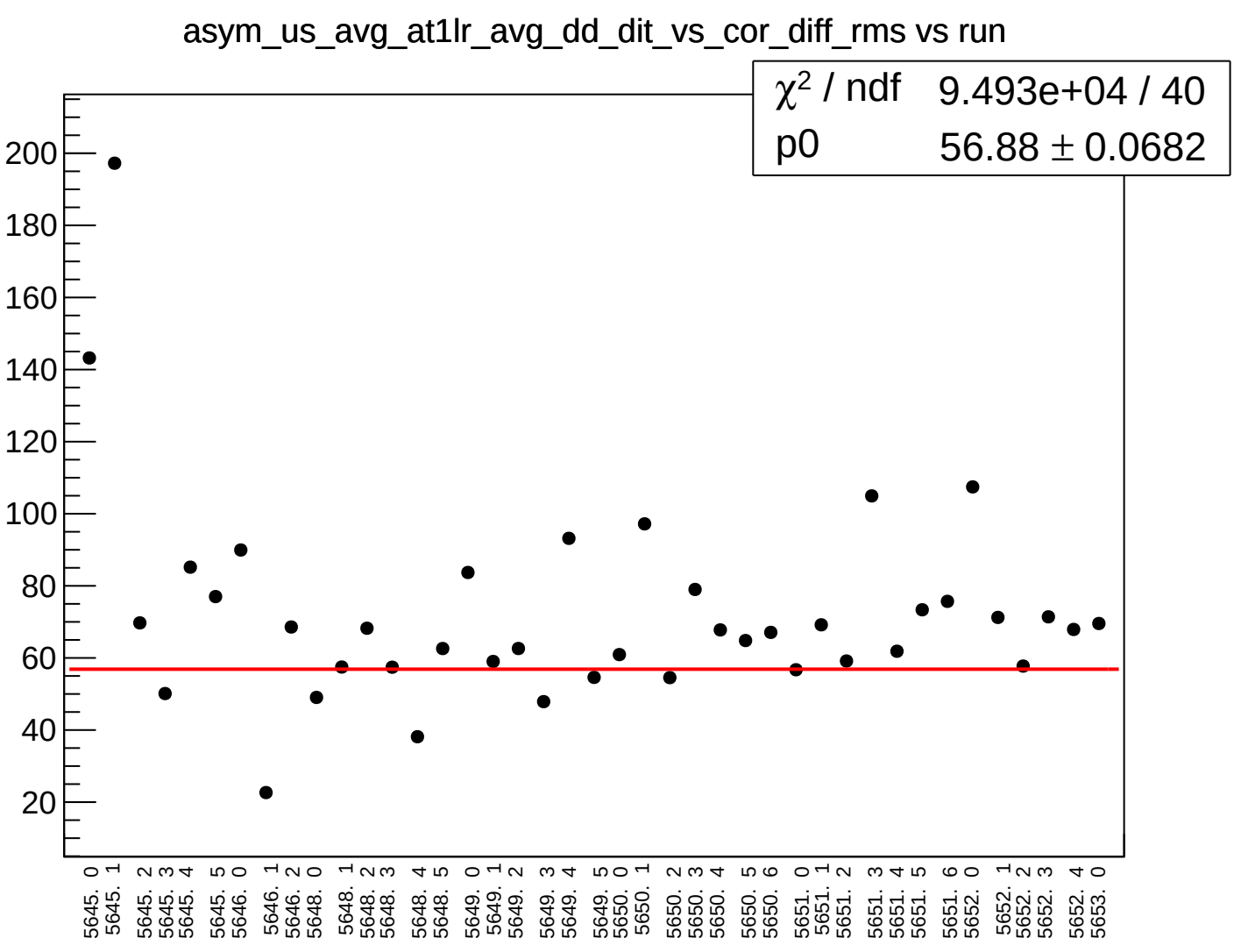

pull1D
Entries 41
Mean 0.007042
Std Dev 0.91

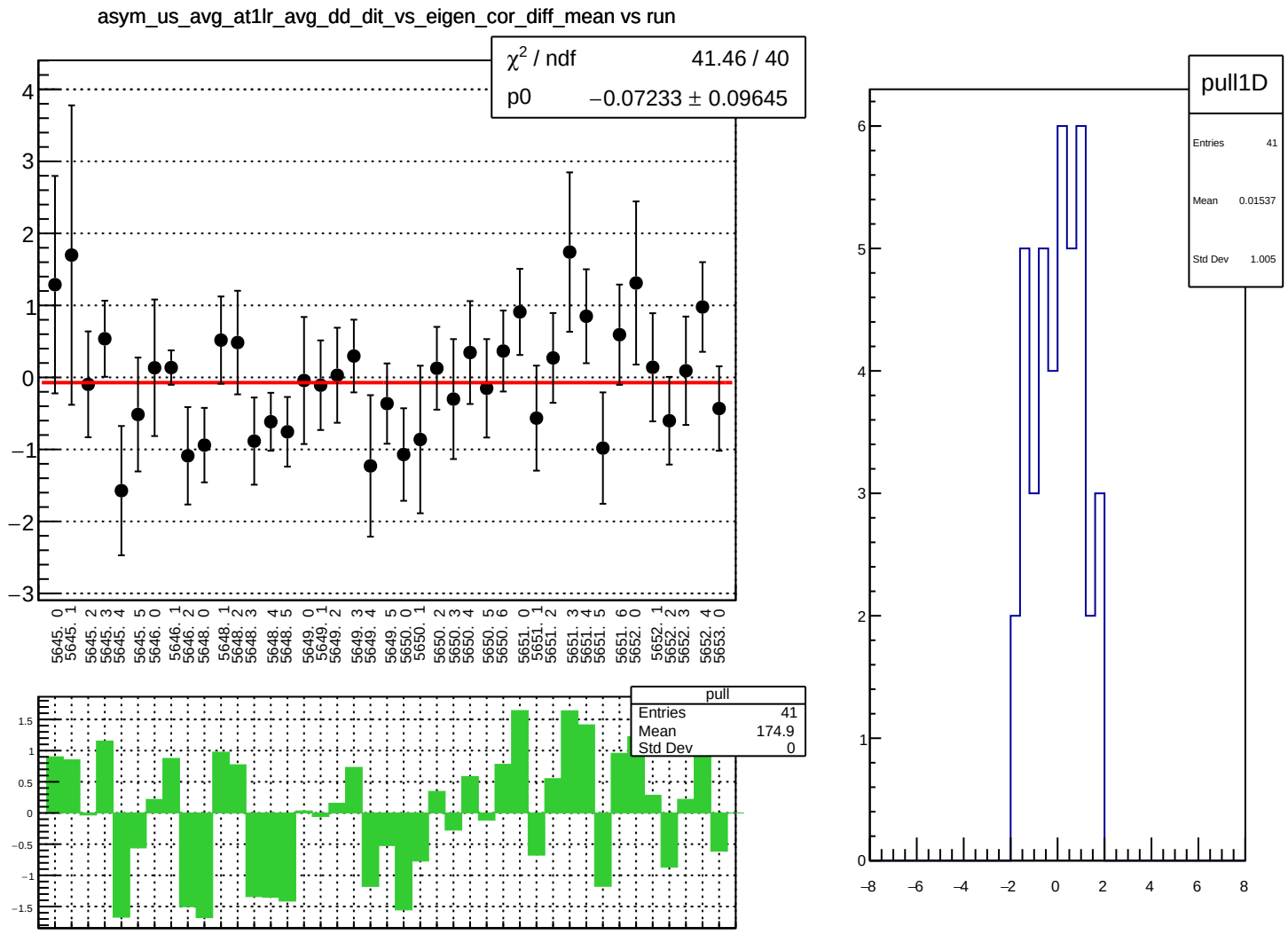

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 338 / 40
p0 2301 ± 2.589
2500
2450
2400
2350
2300
2250
2200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

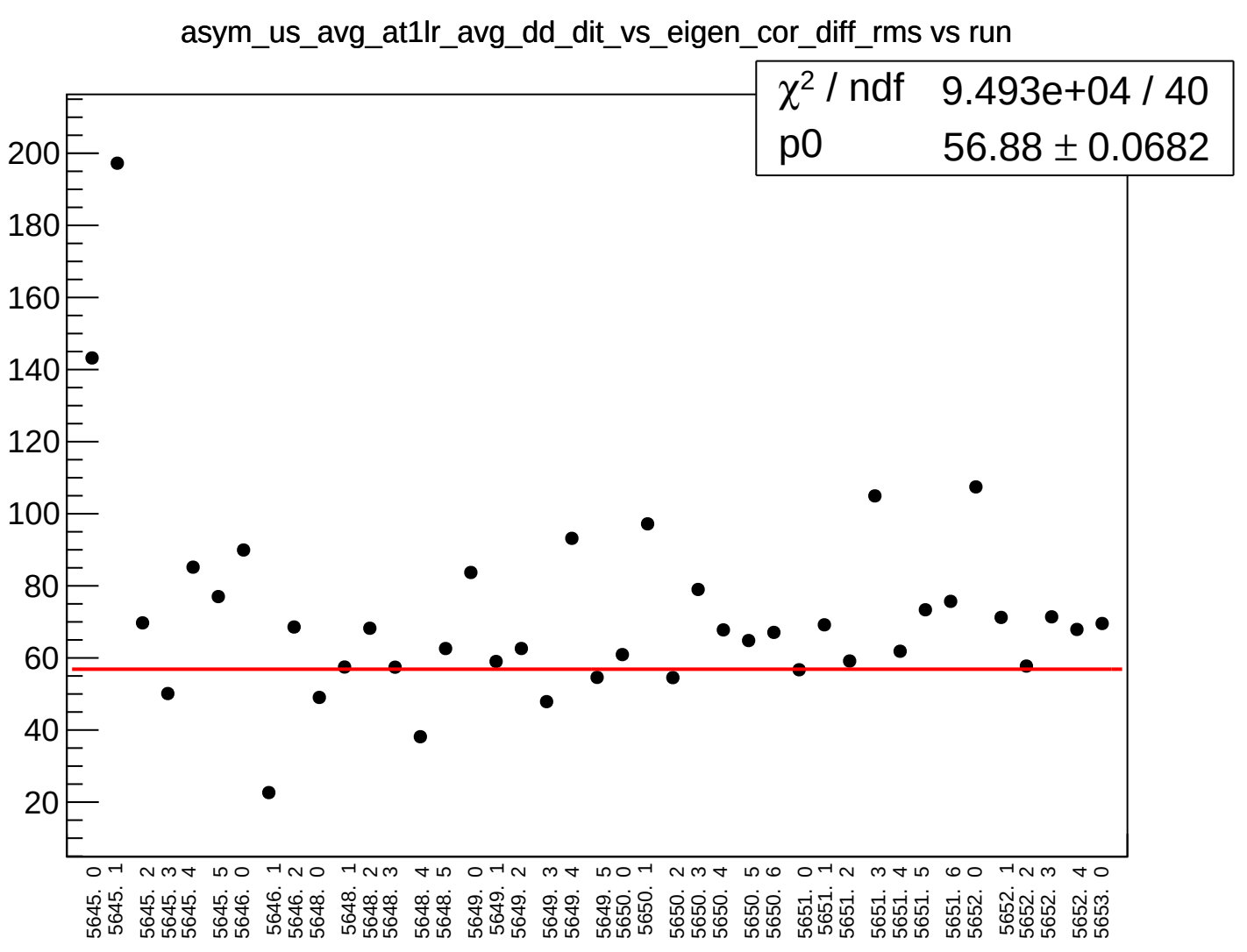

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.63 / 40
p0 −2.223e−14 ± 8.421e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 38.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.1256
Std Dev 0.8407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

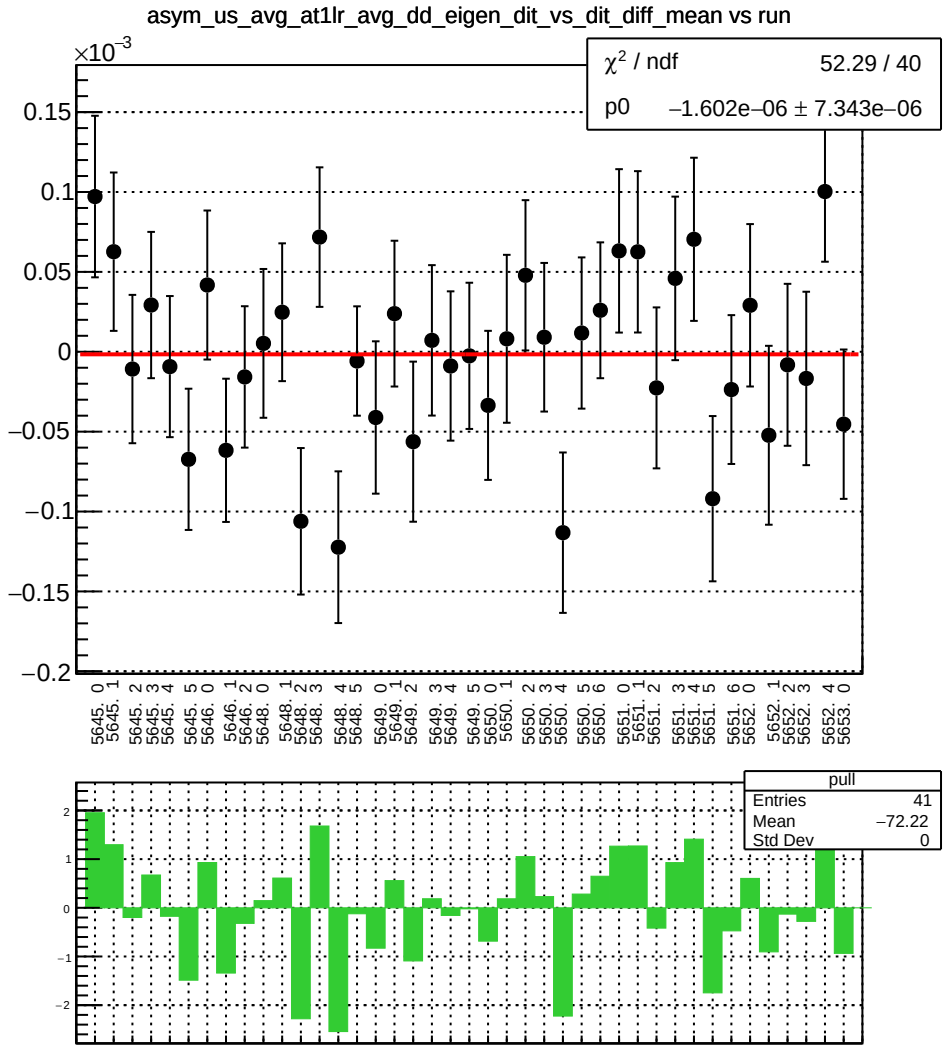

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.209e+05 / 40
p0 3.619e−11 ± 5.954e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

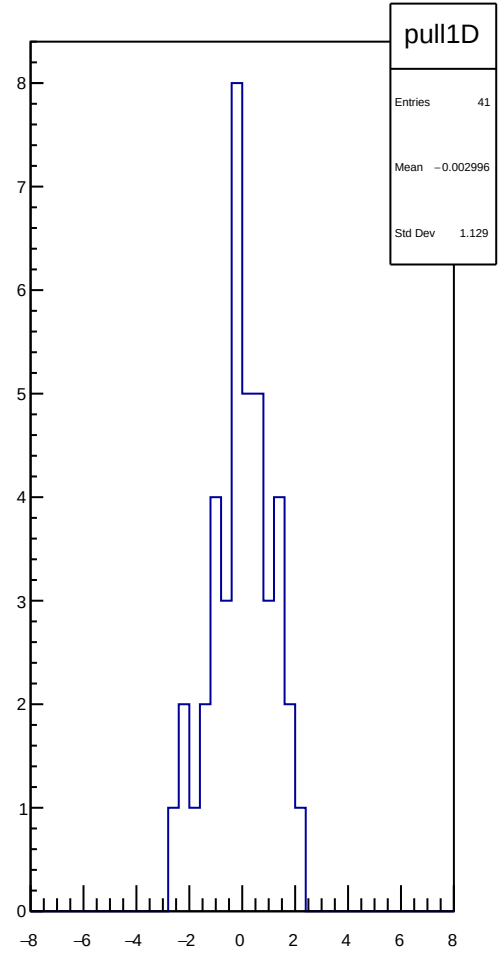

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 41.46 / 40
p0 −0.07233 ± 0.09645
pull
Entries 41
Mean 174.9
Std Dev 0
pull1D
Entries 41
Mean 0.01537
Std Dev 1.005

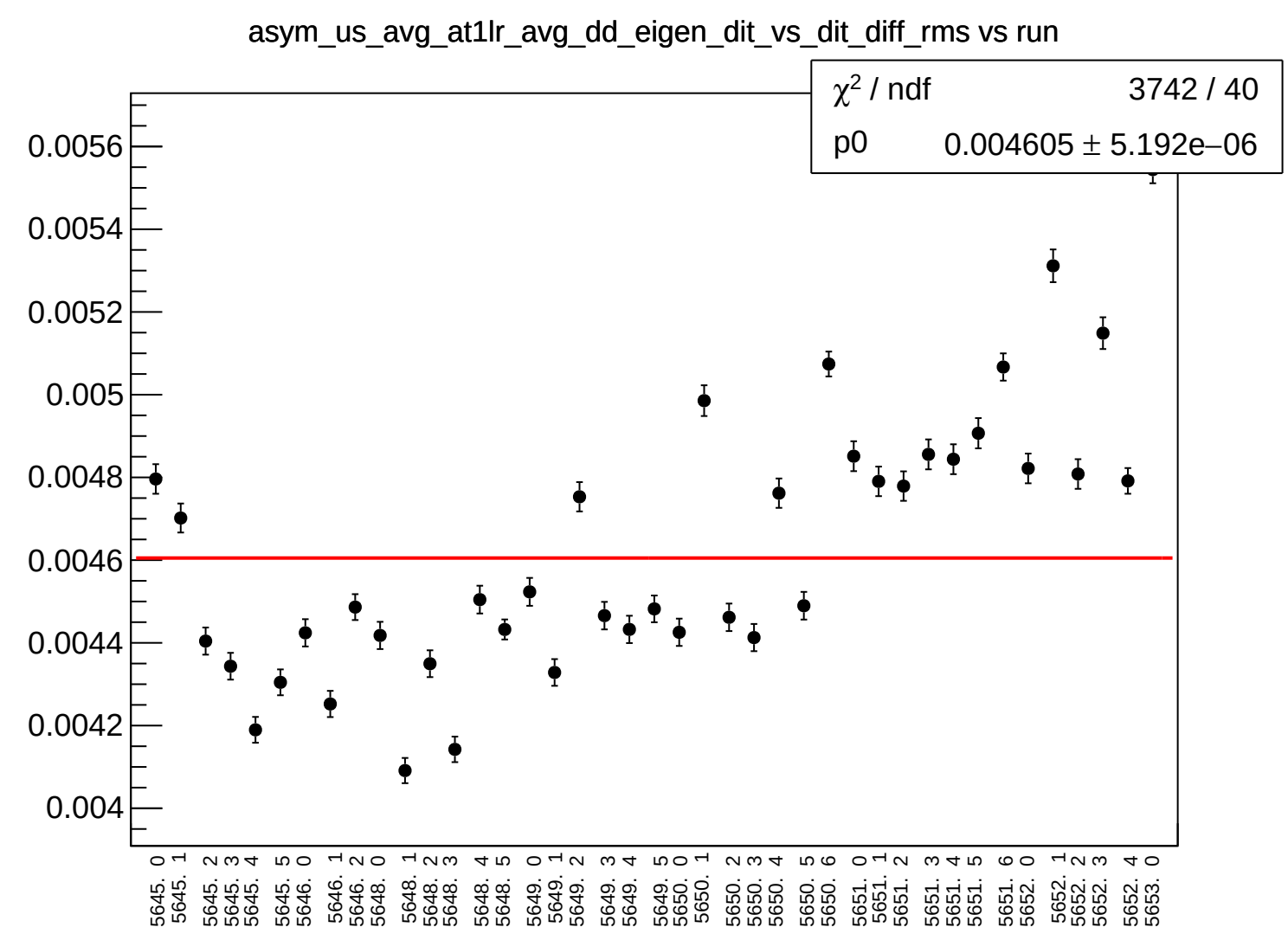

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.493e+04 / 40
p0 56.88 ± 0.0682
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

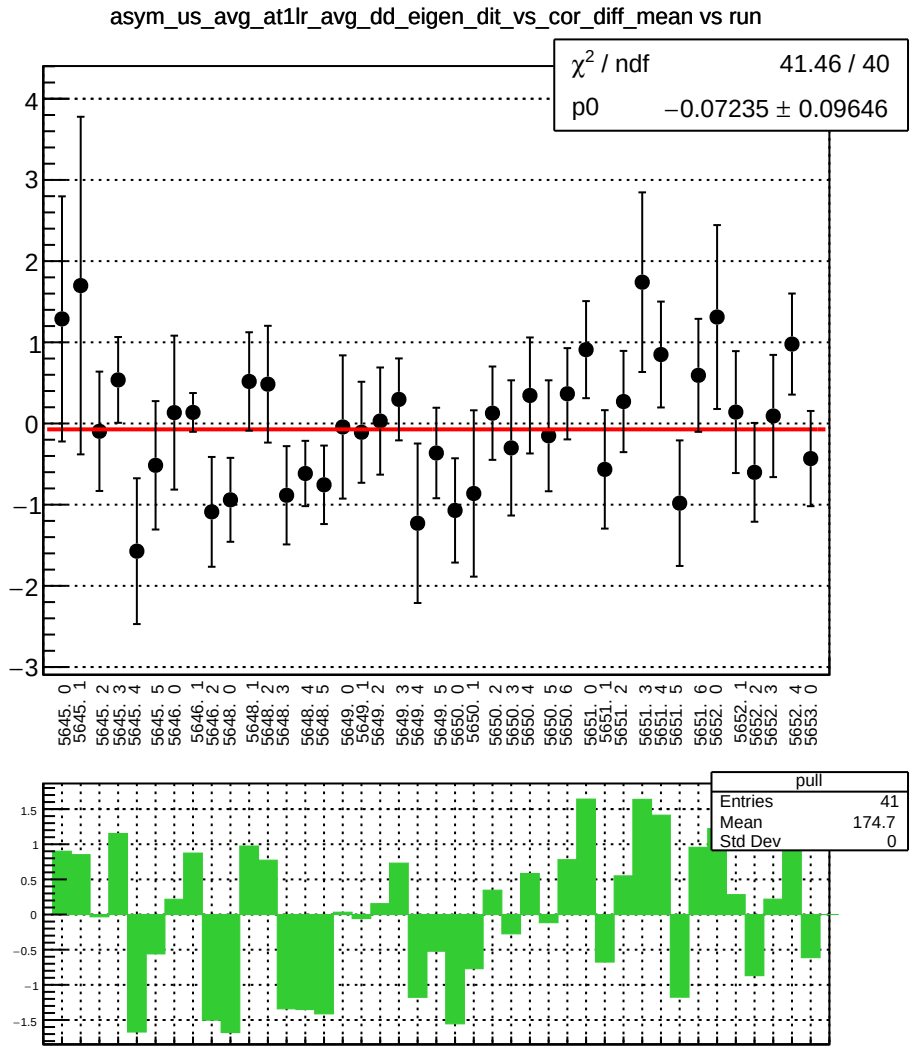

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.46 / 40
p0 −0.07233 ± 0.09645
pull
Entries 41
Mean 174.9
Std Dev 0
pull1D
Entries 41
Mean 0.01537
Std Dev 1.005

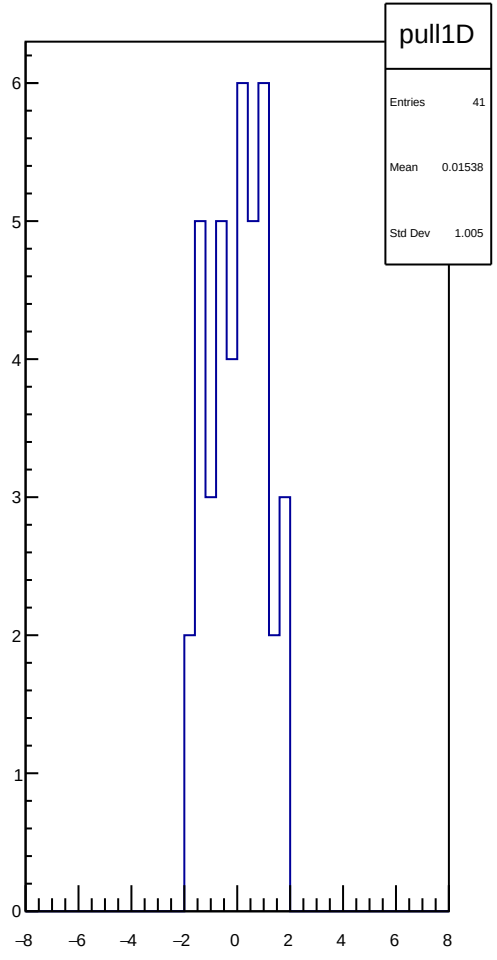

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.493e+04 / 40
p0 56.88 ± 0.0682
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

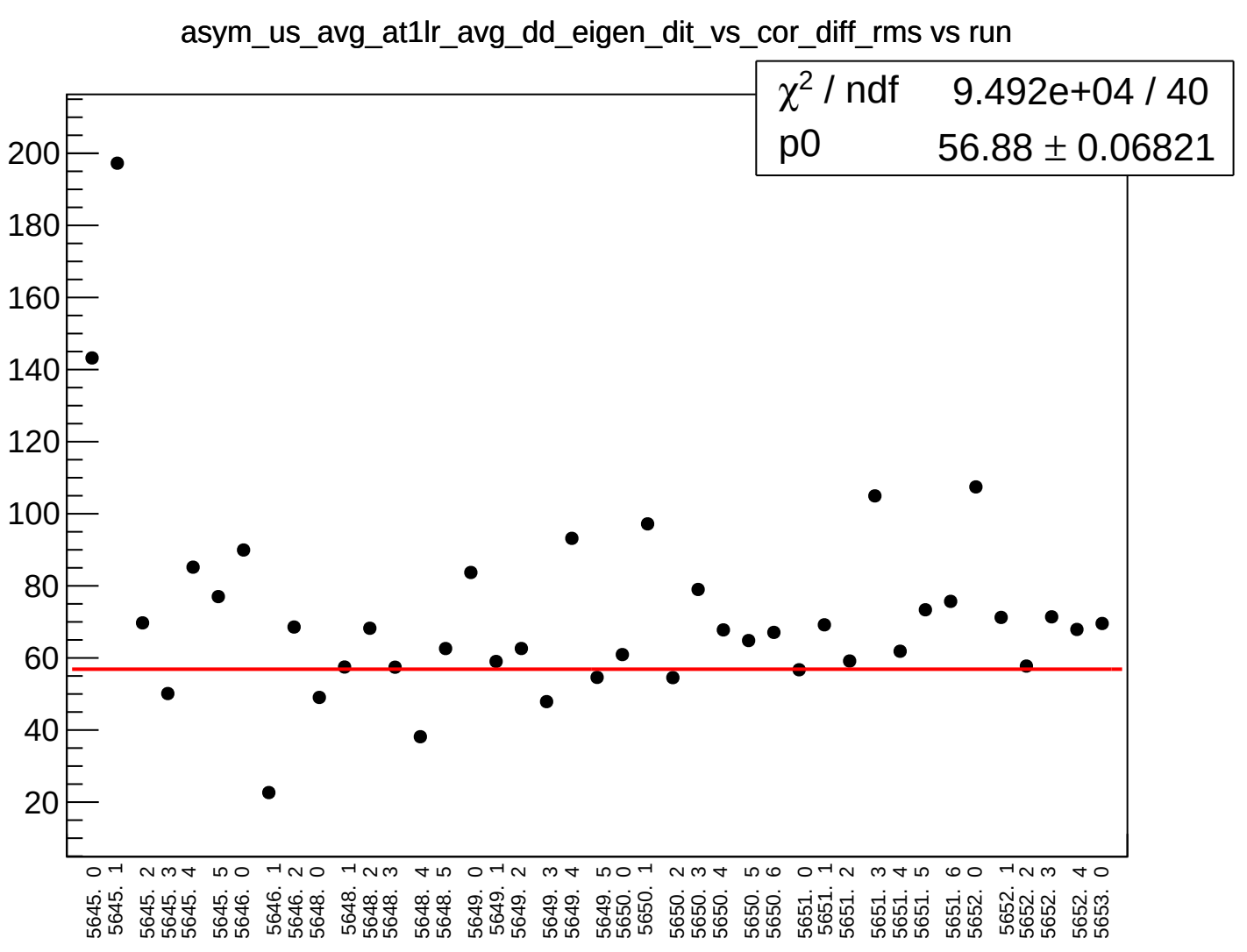

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.29 / 40
p0 −1.602e−06 ± 7.343e−06
pull
Entries 41
Mean −72.22
Std Dev 0

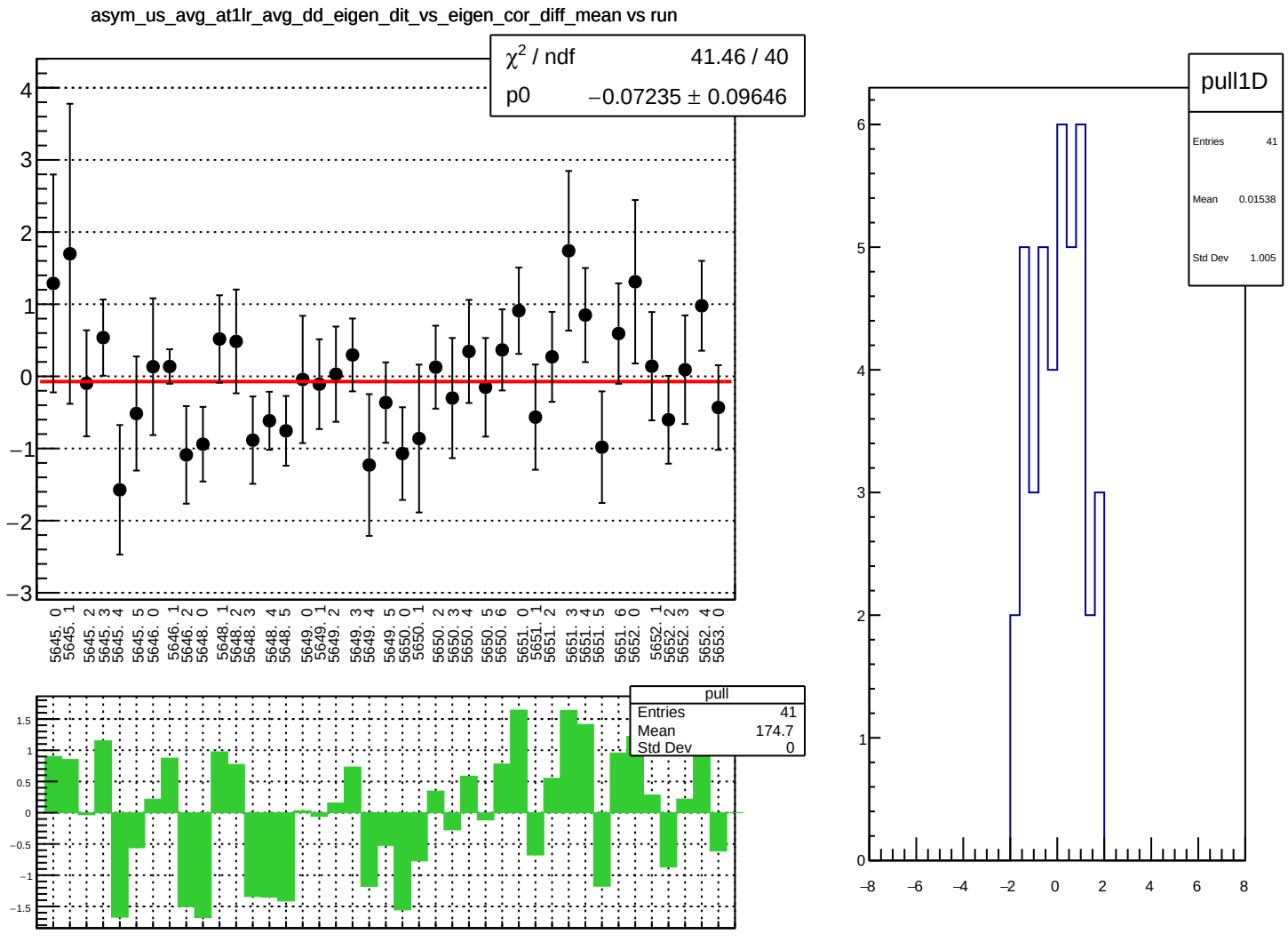

pull1D
Entries 41
Mean −0.002996
Std Dev 1.129

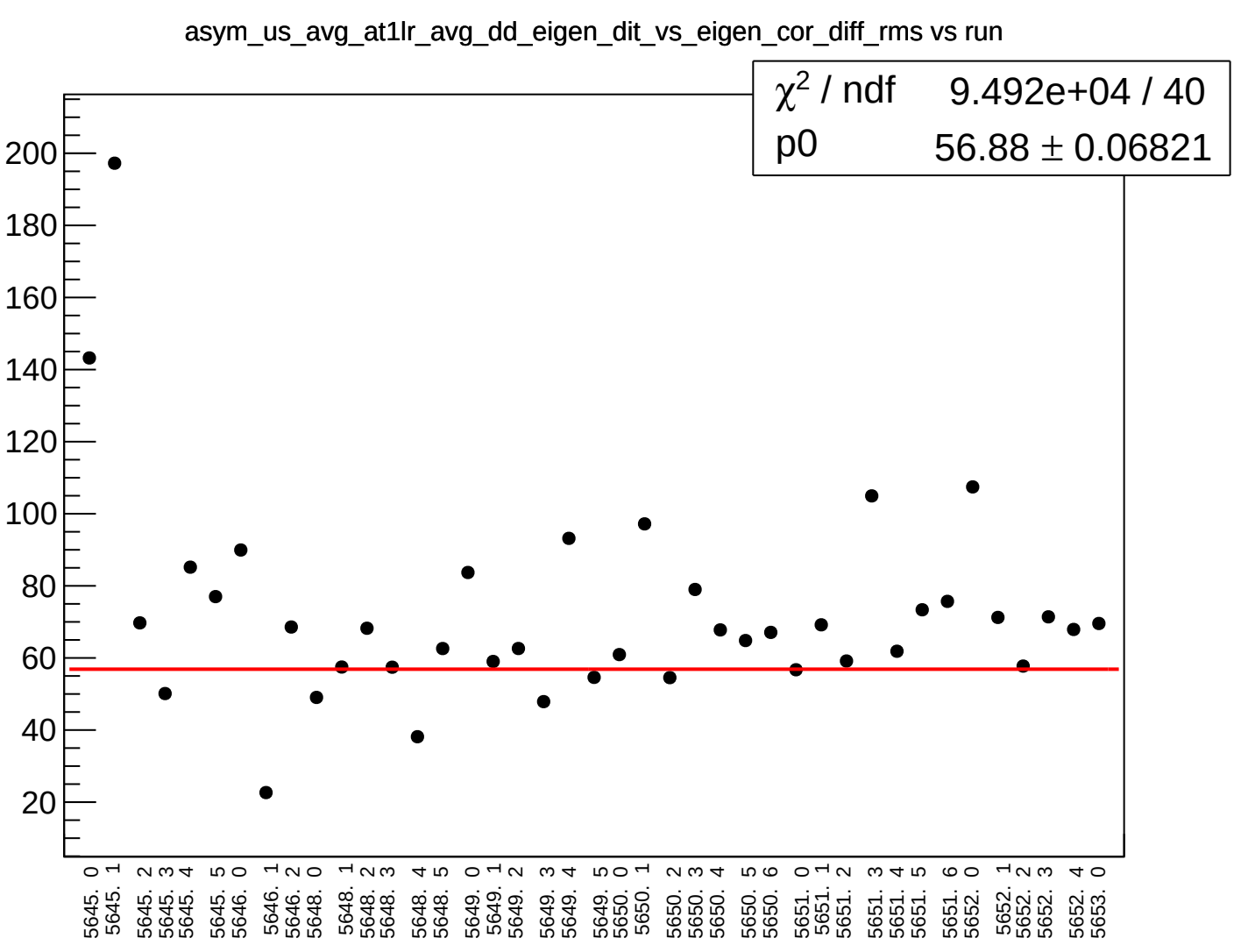

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3742 / 40
p0 0.004605 ± 5.192e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

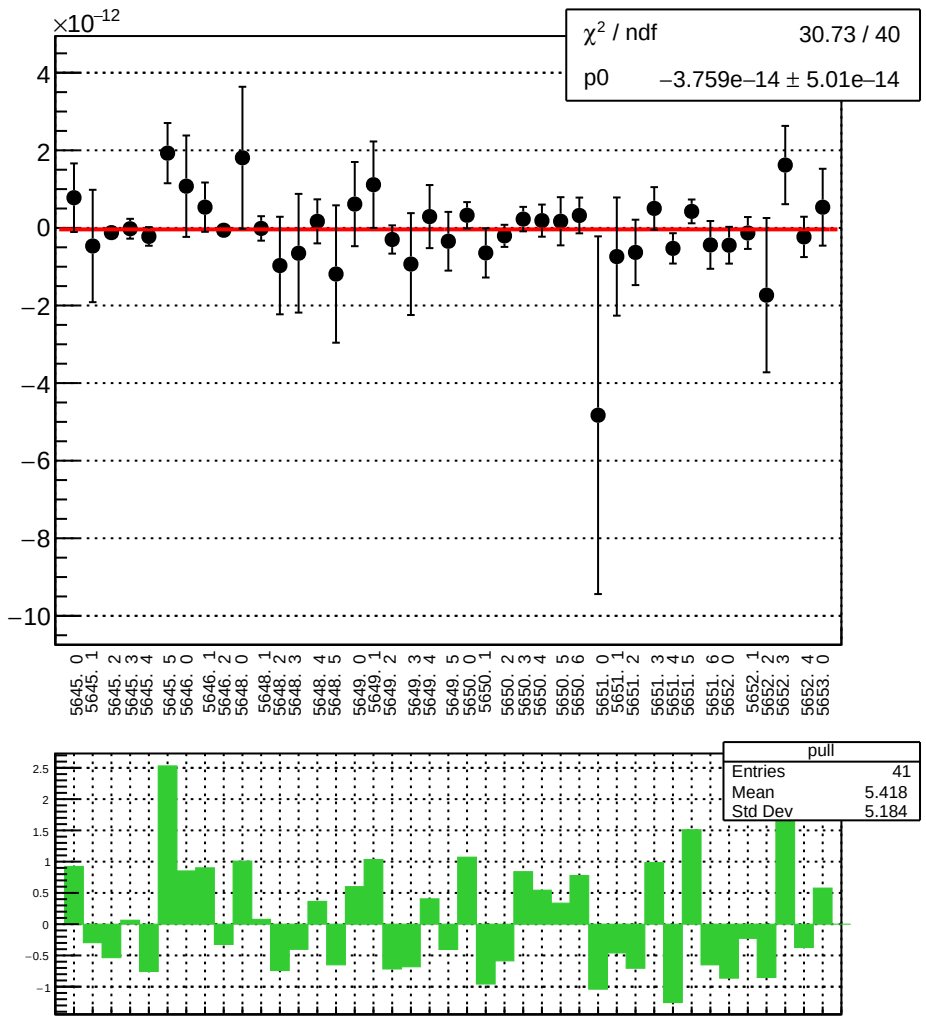

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.46 / 40
p0 −0.07235 ± 0.09646
pull
Entries 41
Mean 174.7
Std Dev 0

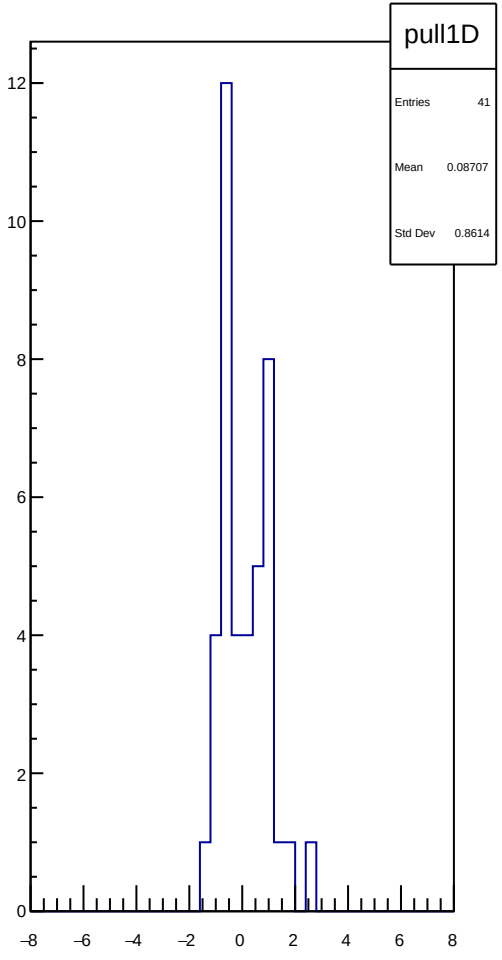

pull1D
Entries 41
Mean 0.01538
Std Dev 1.005

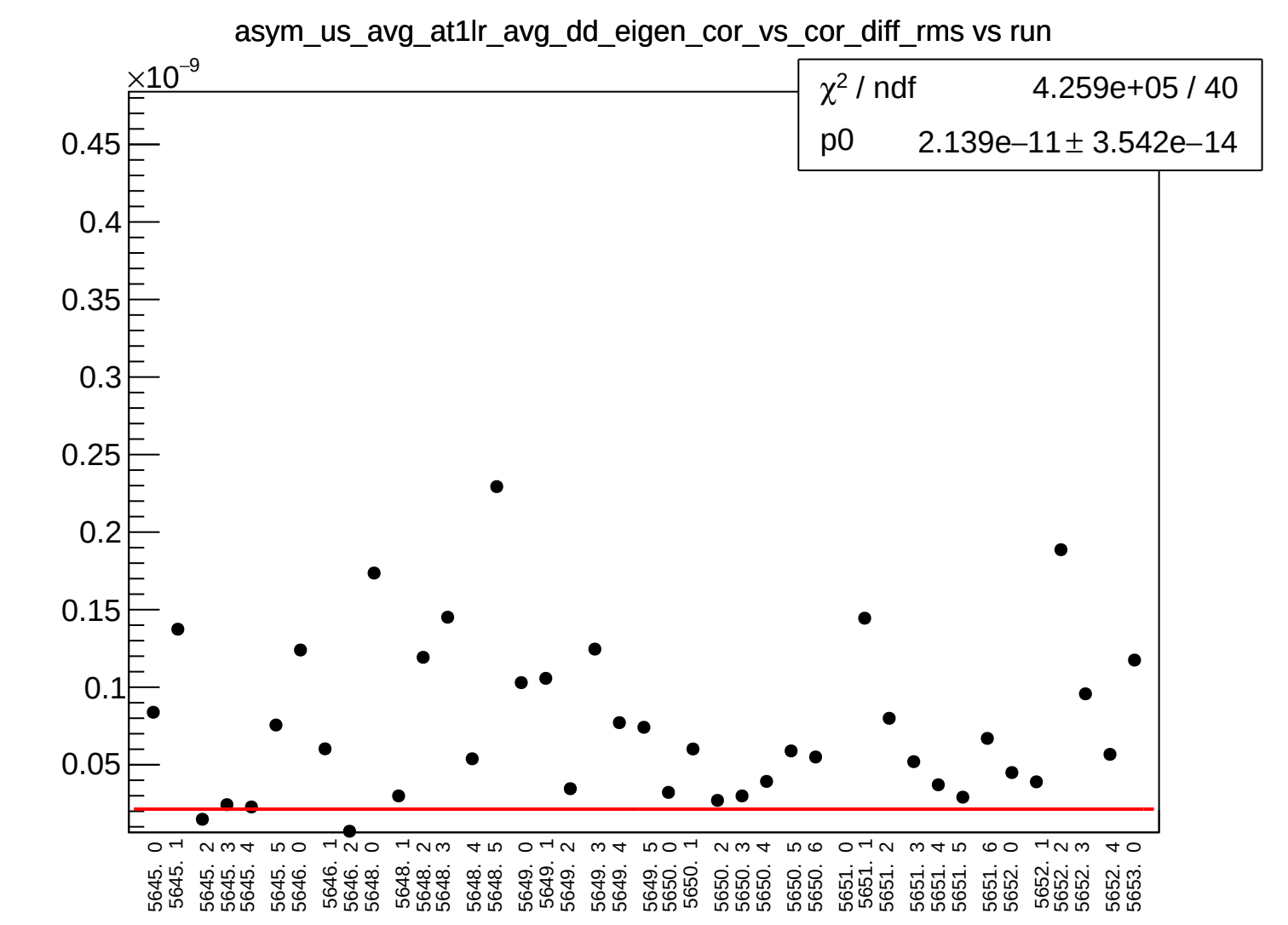

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.492e+04 / 40
p0 56.88 ± 0.06821
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

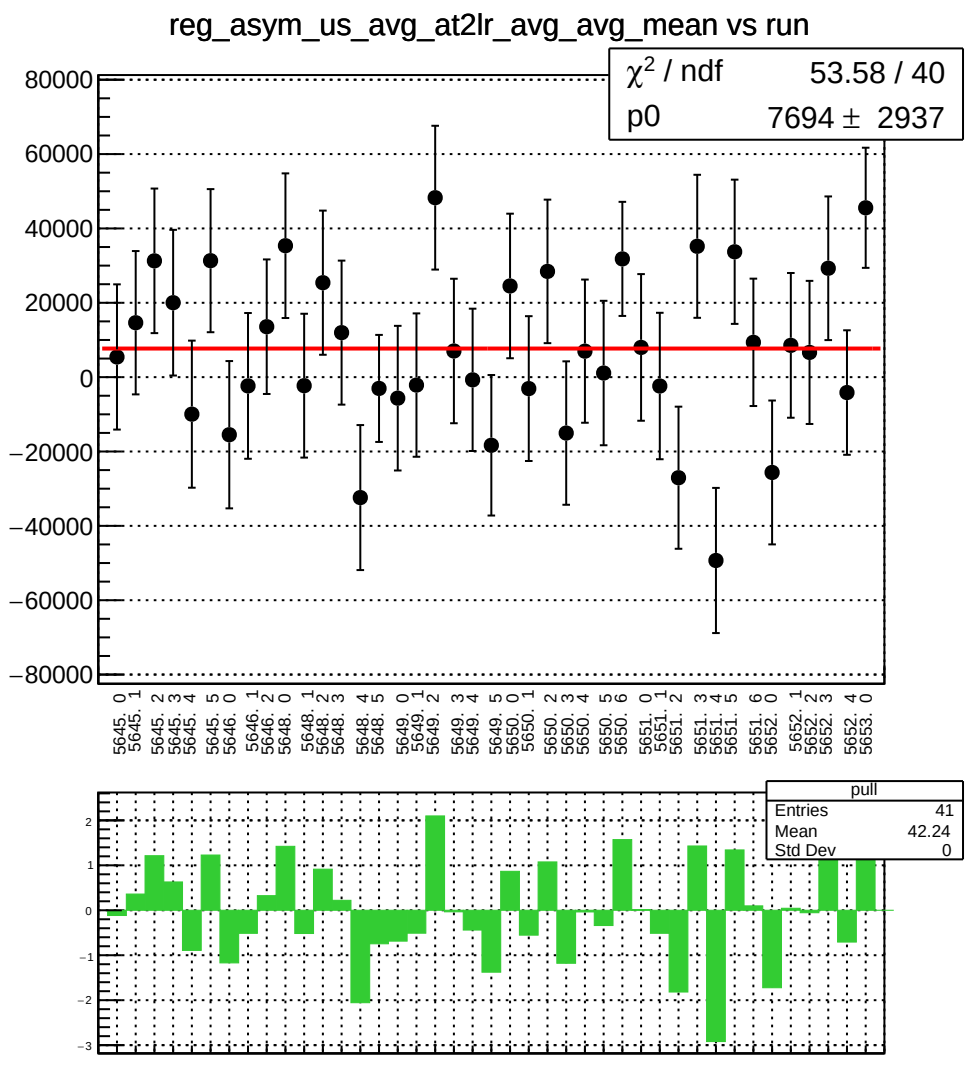

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.46 / 40
p0 −0.07235 ± 0.09646
pull
Entries 41
Mean 174.7
Std Dev 0
pull1D
Entries 41
Mean 0.01538
Std Dev 1.005

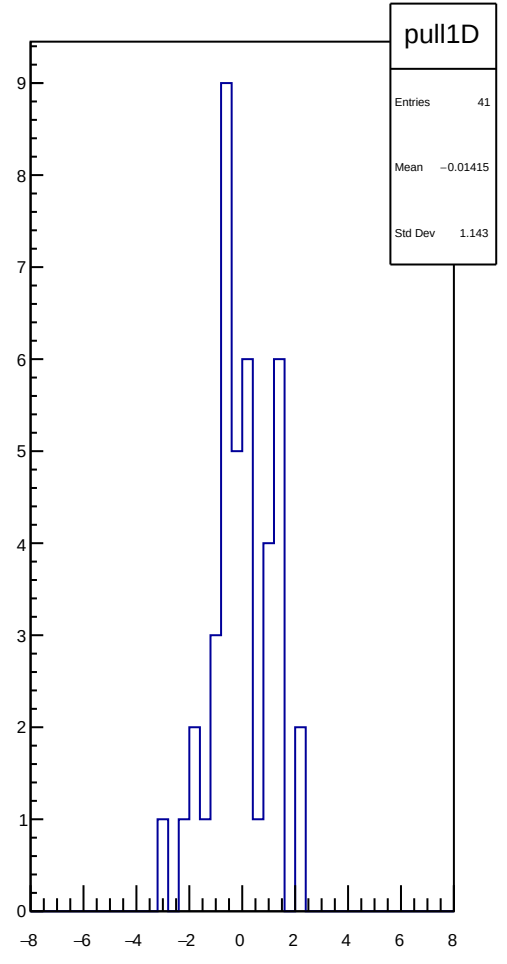

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.492e+04 / 40
p0 56.88 ± 0.06821
200
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

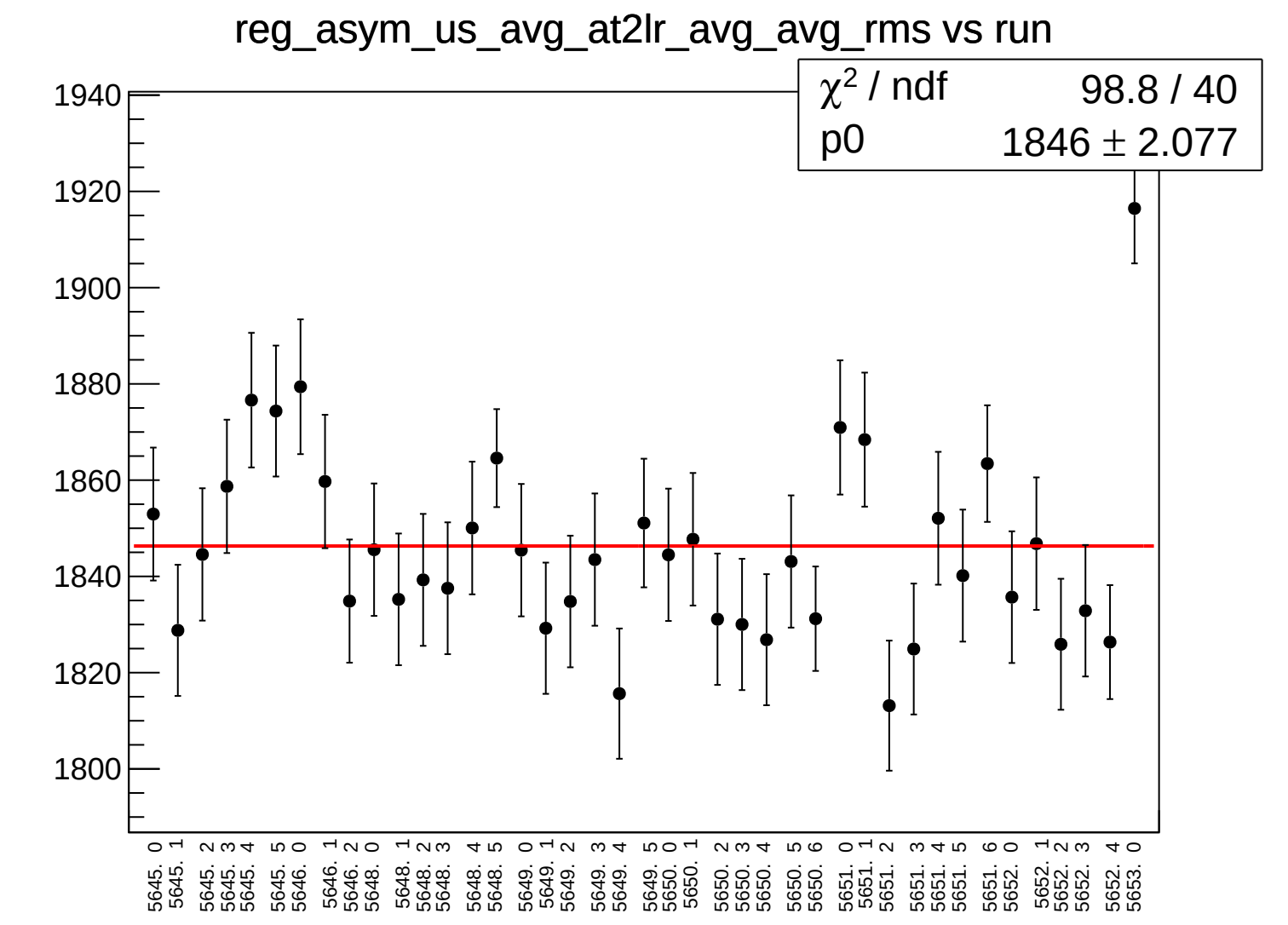

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.73 / 40
p0 −3.759e−14 ± 5.01e−14
pull
Entries 41
Mean 5.418
Std Dev 5.184

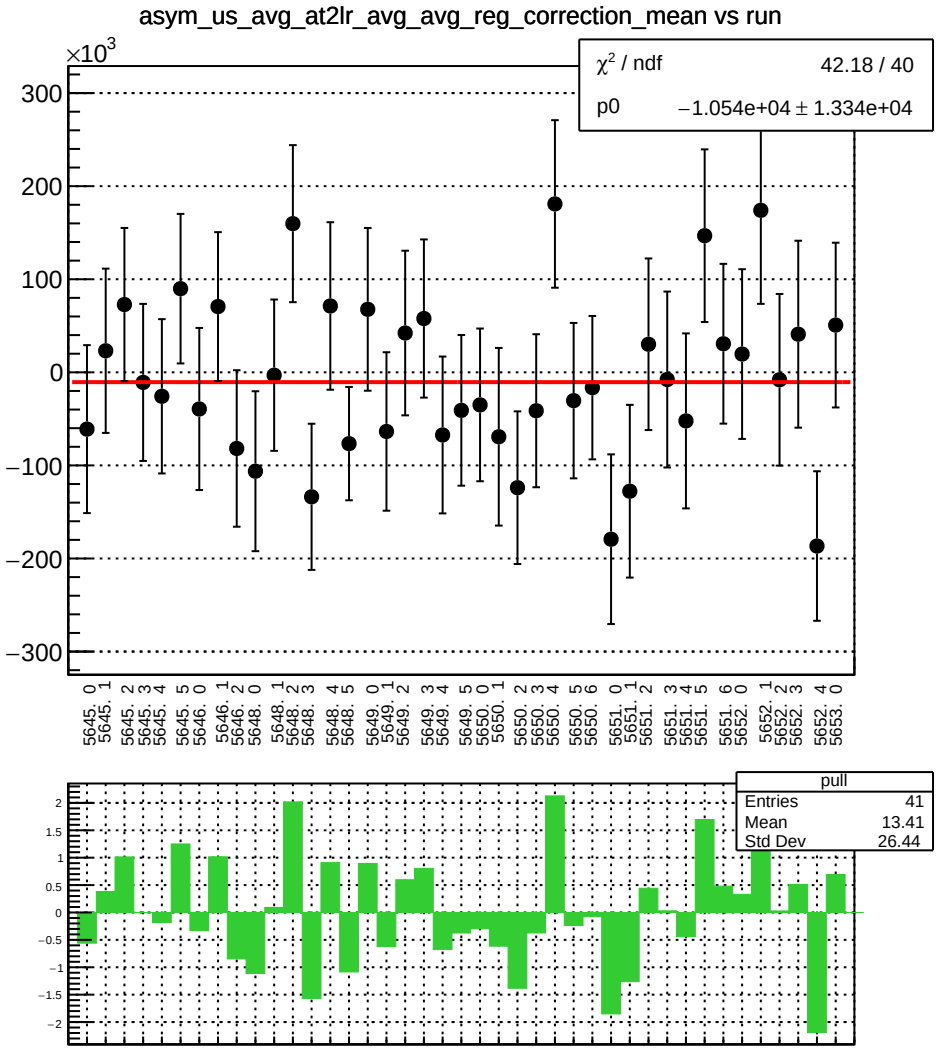

pull1D
Entries 41
Mean 0.08707
Std Dev 0.8614

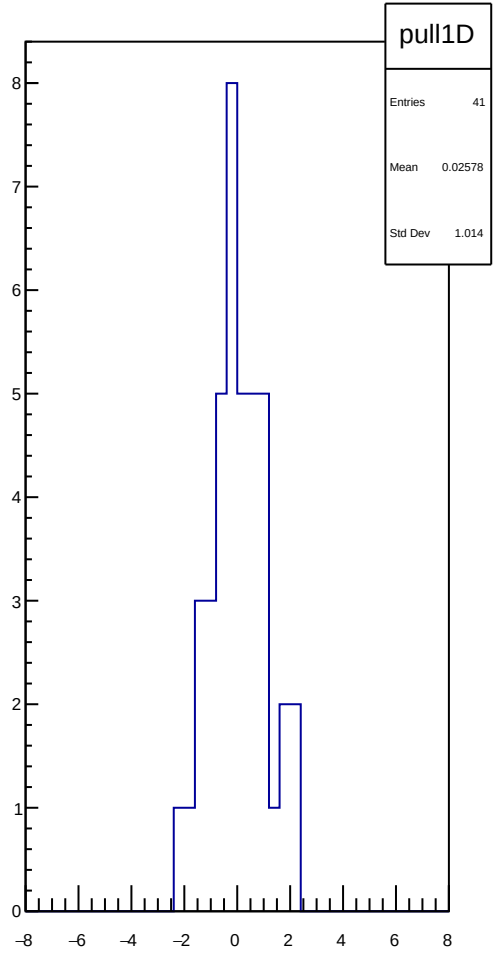

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.259e+05 / 40
p0 2.139e−11 ± 3.542e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

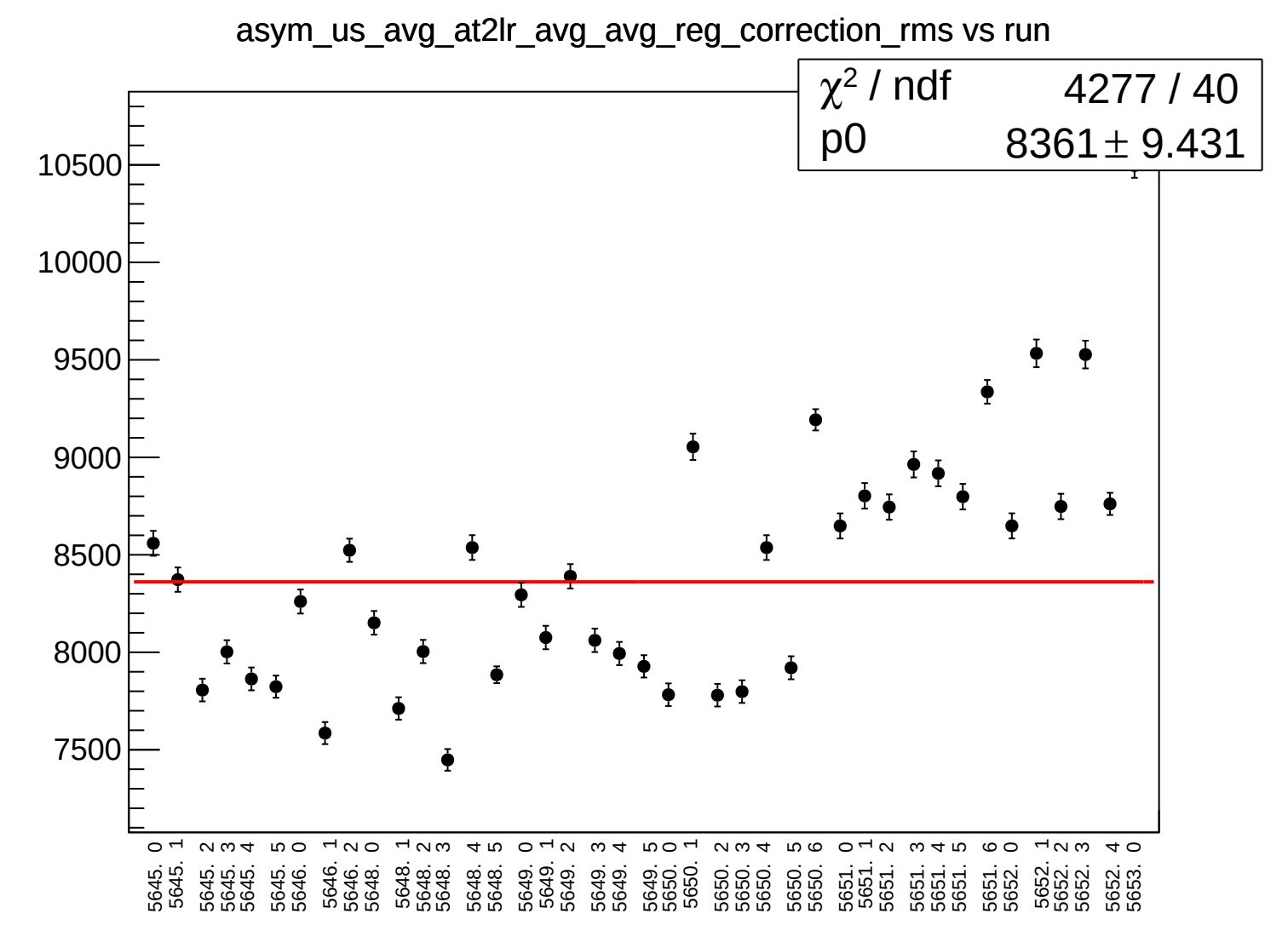

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 53.58 / 40
p0 7694 ± 2937
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.24
Std Dev 0
2
1
0
−1
−2
−3

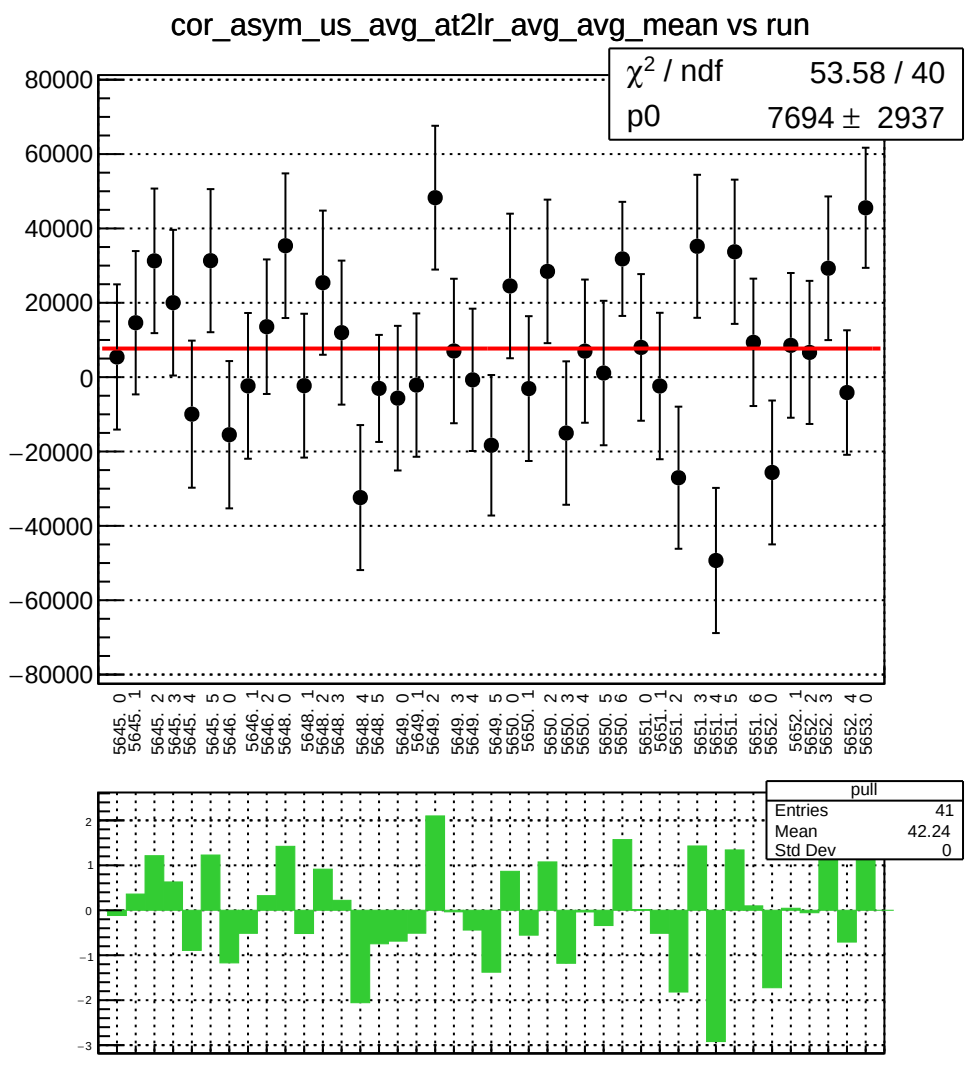

pull1D
Entries 41
Mean −0.01415
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

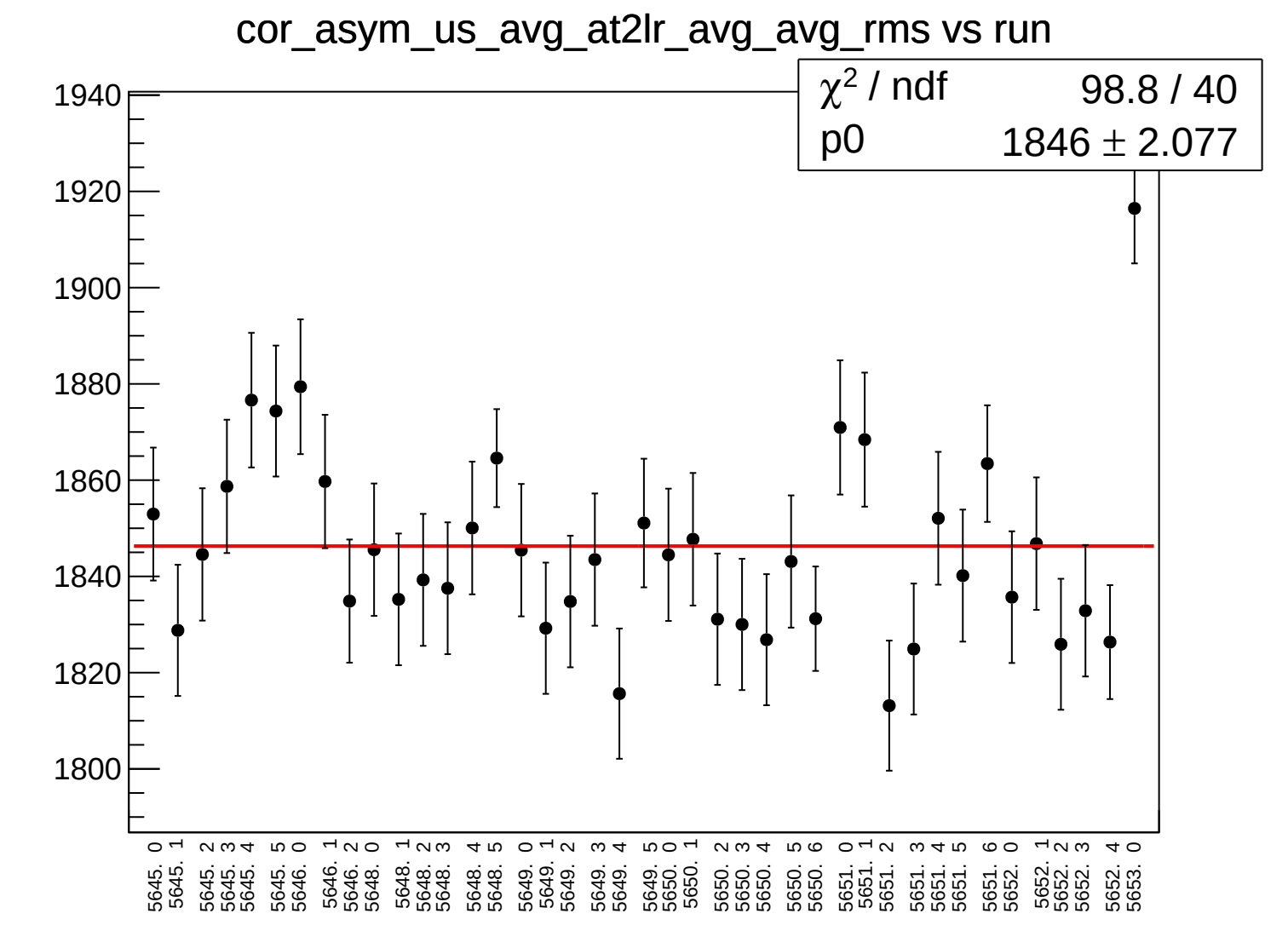

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.8 / 40
p0 1846 ± 2.077
1940
1920
1900
1880
1860
1840
1820
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

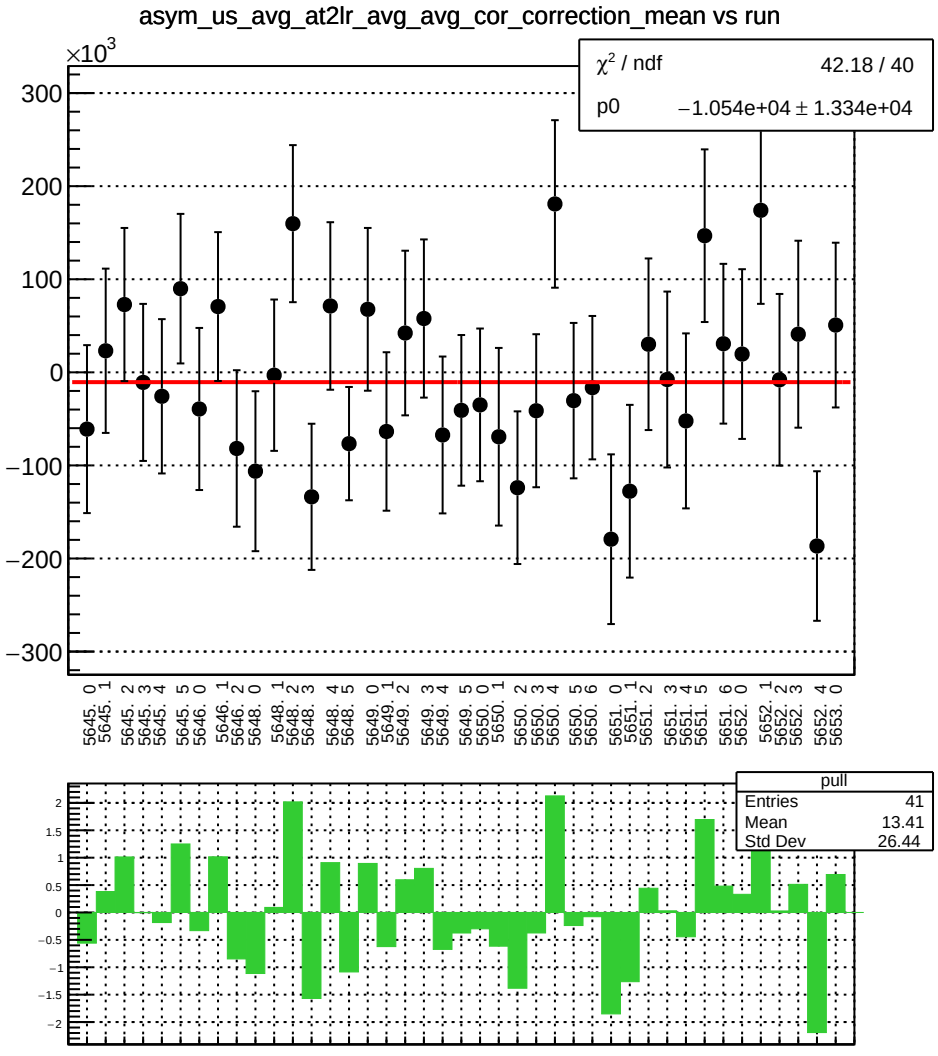

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 42.18 / 40
p0 −1.054e+04 ± 1.334e+04
pull
Entries 41
Mean 13.41
Std Dev 26.44

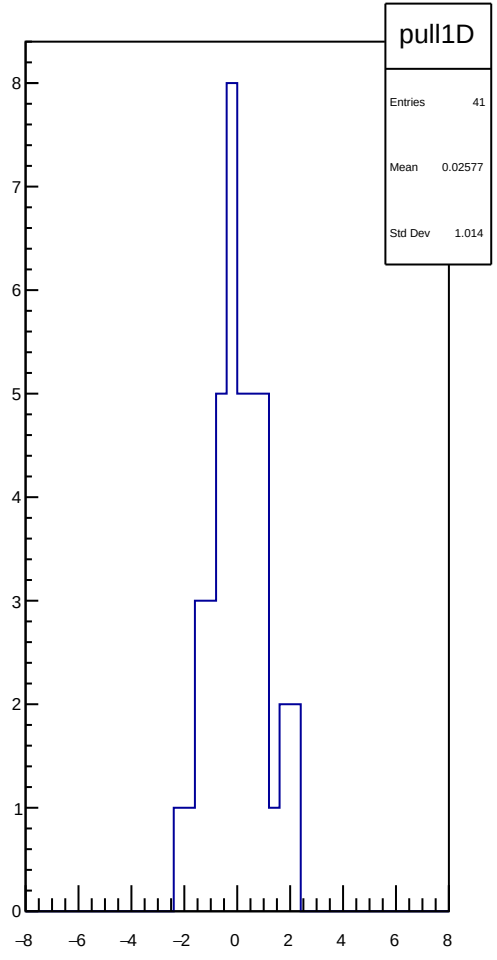

pull1D
Entries 41
Mean 0.02578
Std Dev 1.014

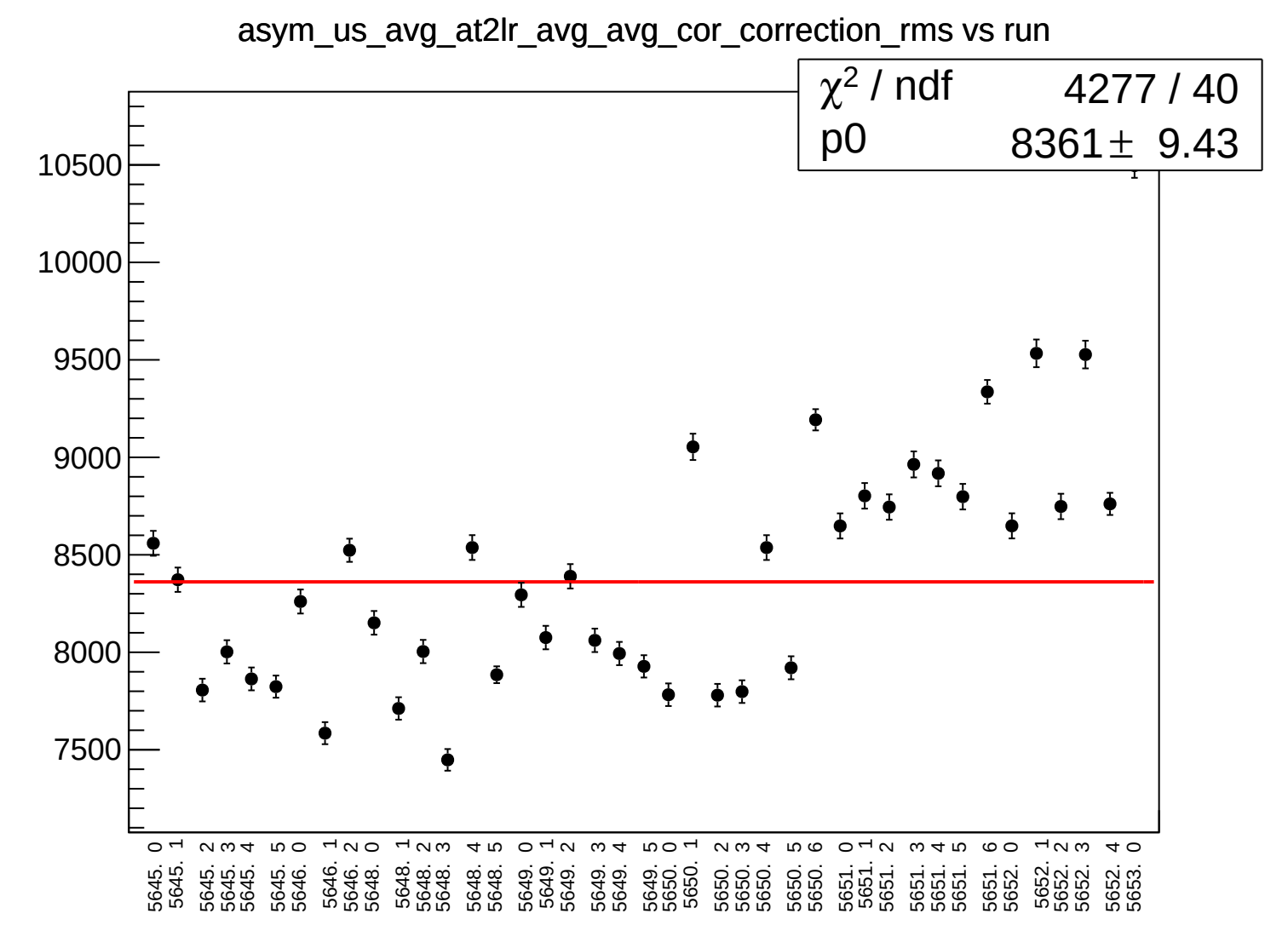

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4277 / 40
p0 8361 ± 9.431
10500
10000
9500
9000
8500
8000
7500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

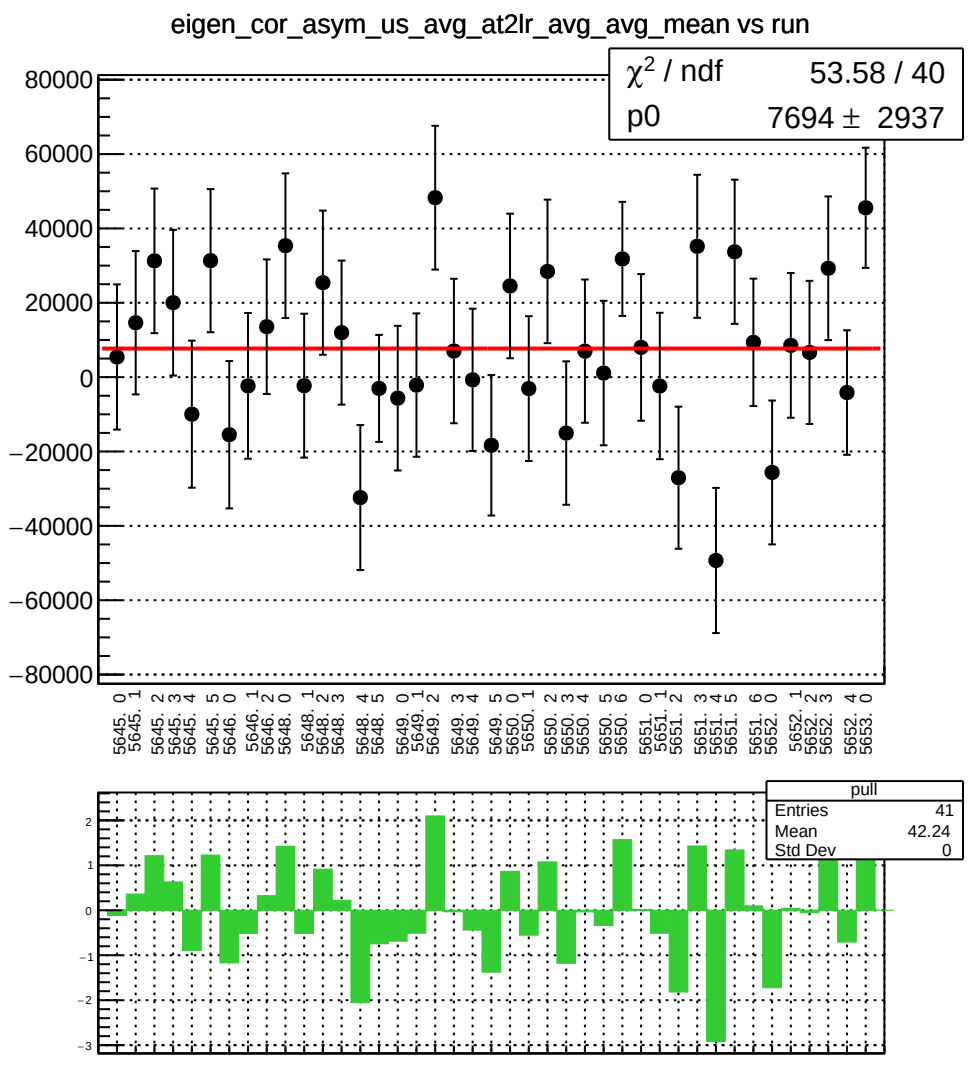

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 53.58 / 40
p0 7694 ± 2937
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.24
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.01415
Std Dev 1.143
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

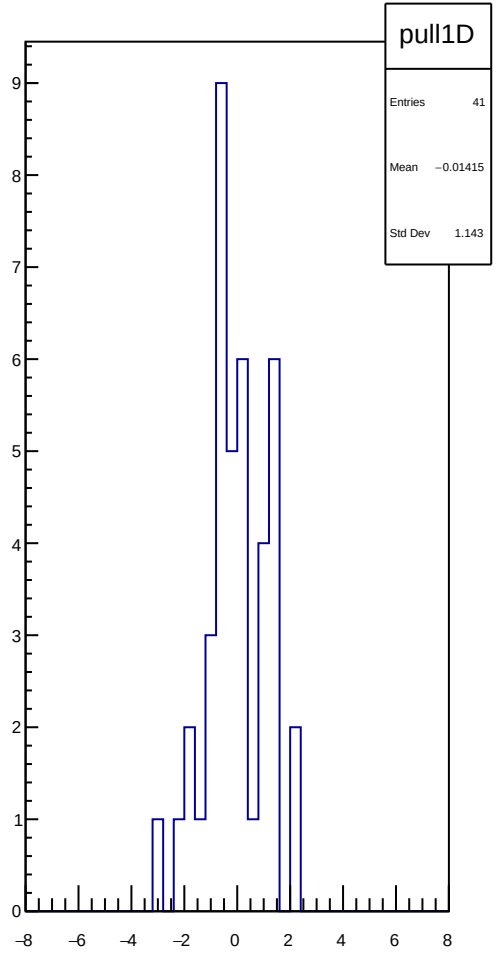

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.8 / 40
p0 1846 ± 2.077
1940
1920
1900
1880
1860
1840
1820
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

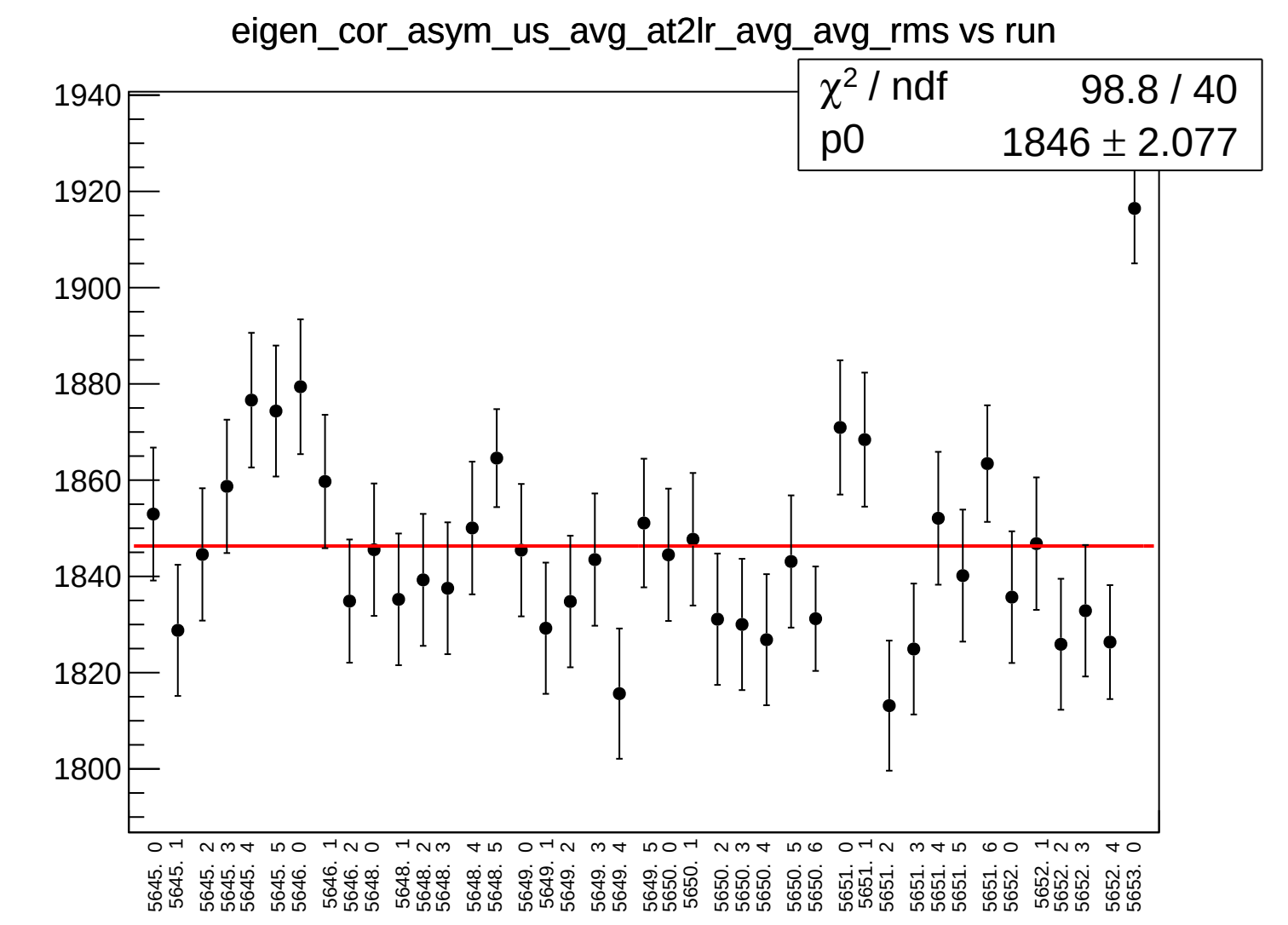

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 42.18 / 40
p0 −1.054e+04 ± 1.334e+04
pull
Entries 41
Mean 13.41
Std Dev 26.44

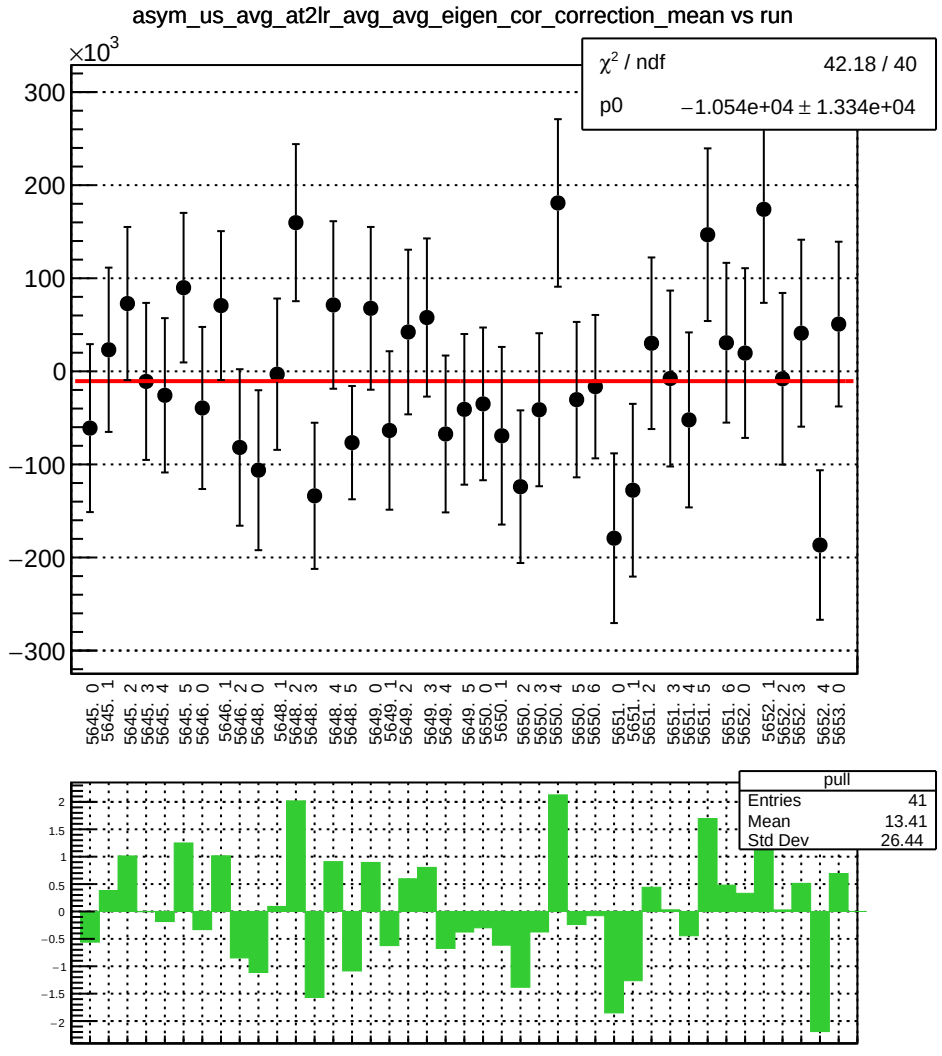

pull1D
Entries 41
Mean 0.02577
Std Dev 1.014

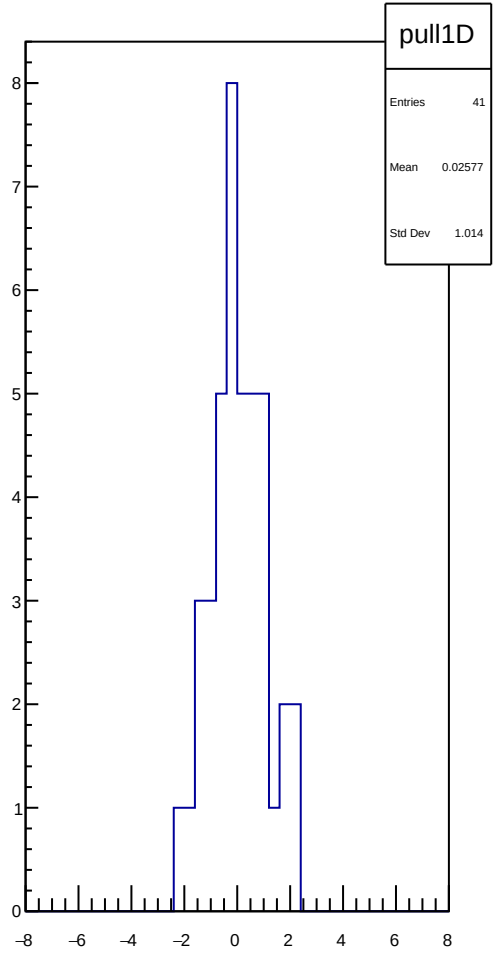

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4277 / 40
p0 8361 ± 9.43
10500
10000
9500
9000
8500
8000
7500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

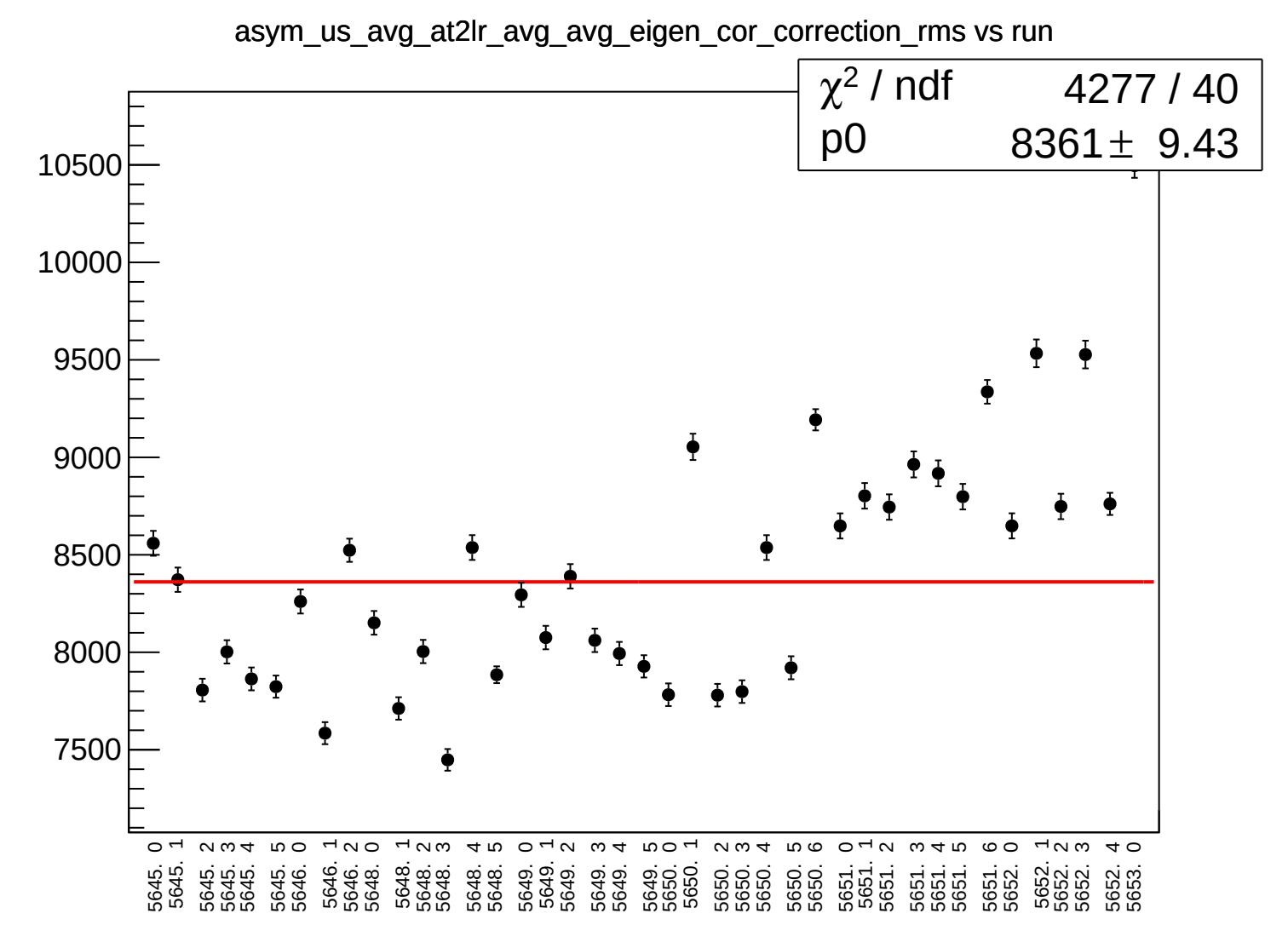

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 53.58 / 40
p0 7694 ± 2937
pull
Entries 41
Mean 42.24
Std Dev 0

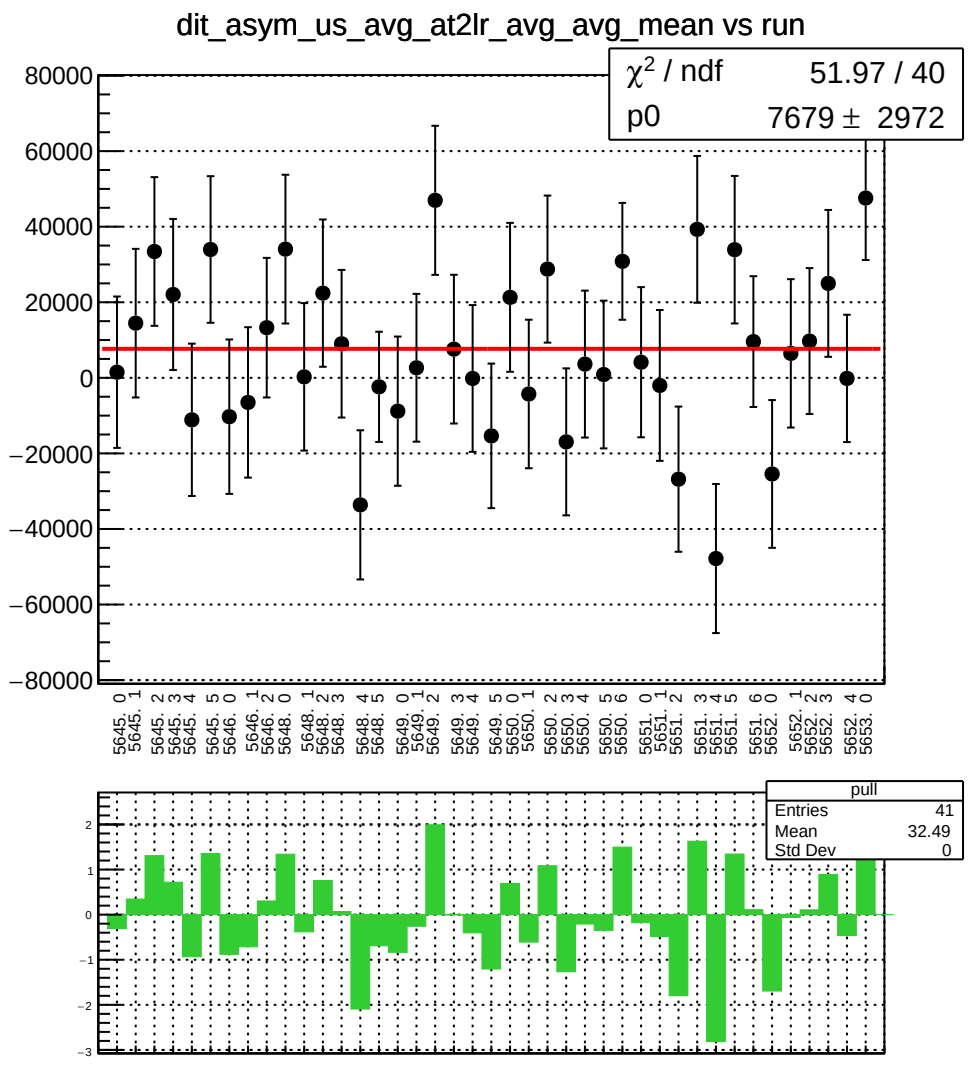

pull1D
Entries 41
Mean −0.01415
Std Dev 1.143

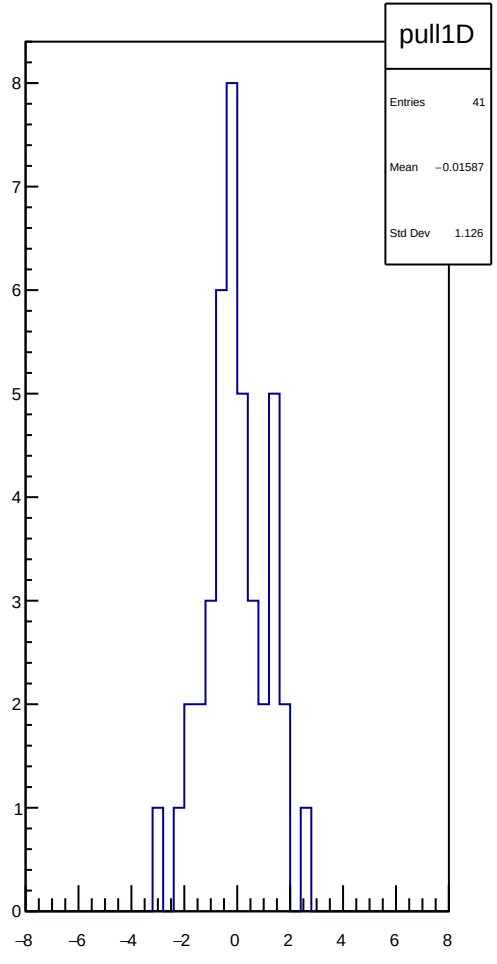

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 98.8 / 40
p0 1846 ± 2.077
1940
1920
1900
1880
1860
1840
1820
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

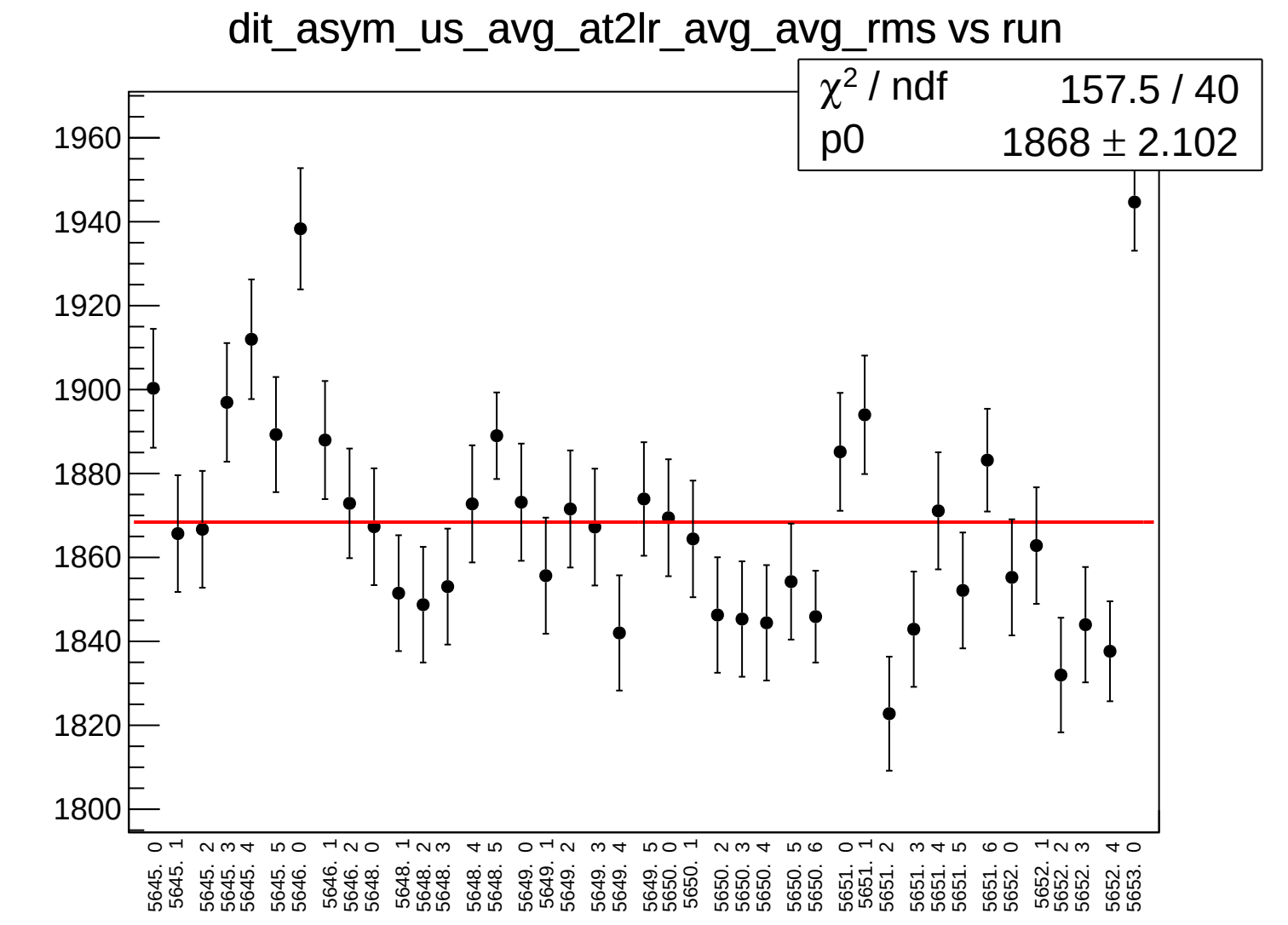

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 42.18 / 40
p0 −1.054e+04 ± 1.334e+04
pull
Entries 41
Mean 13.41
Std Dev 26.44

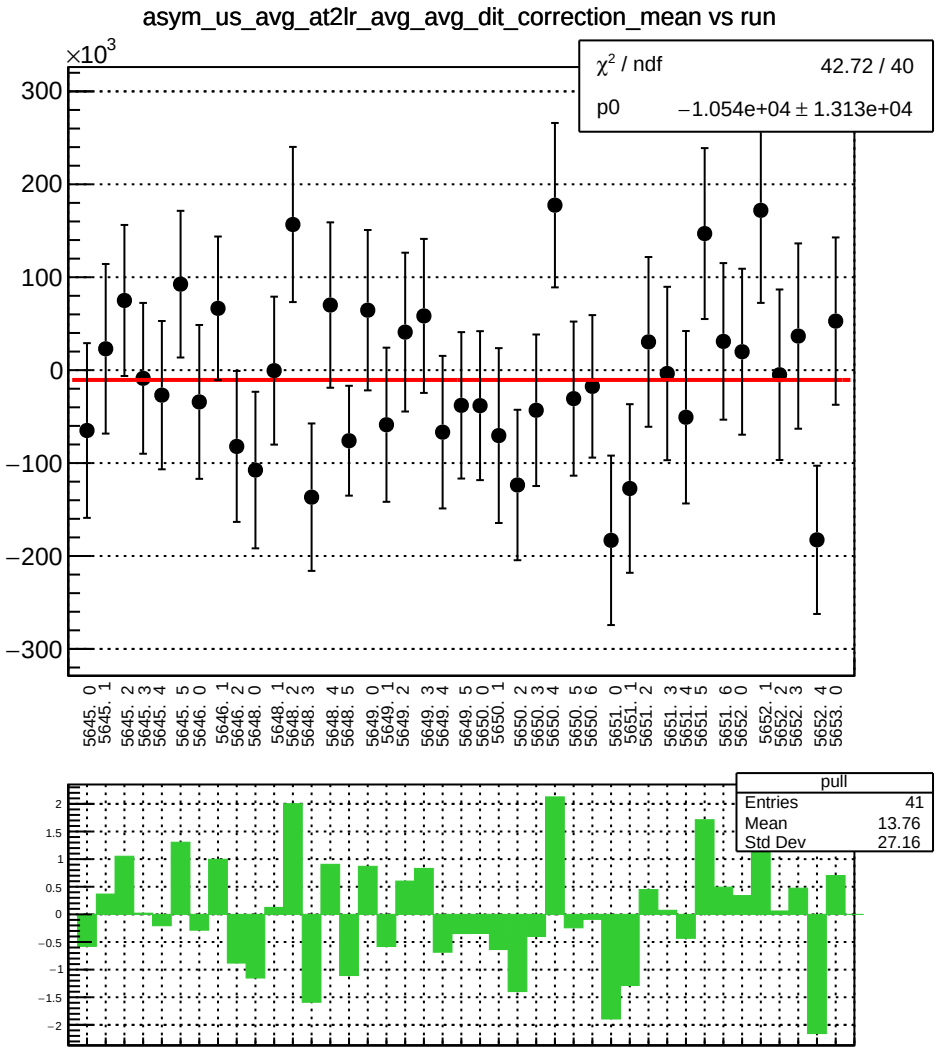

pull1D
Entries 41
Mean 0.02577
Std Dev 1.014

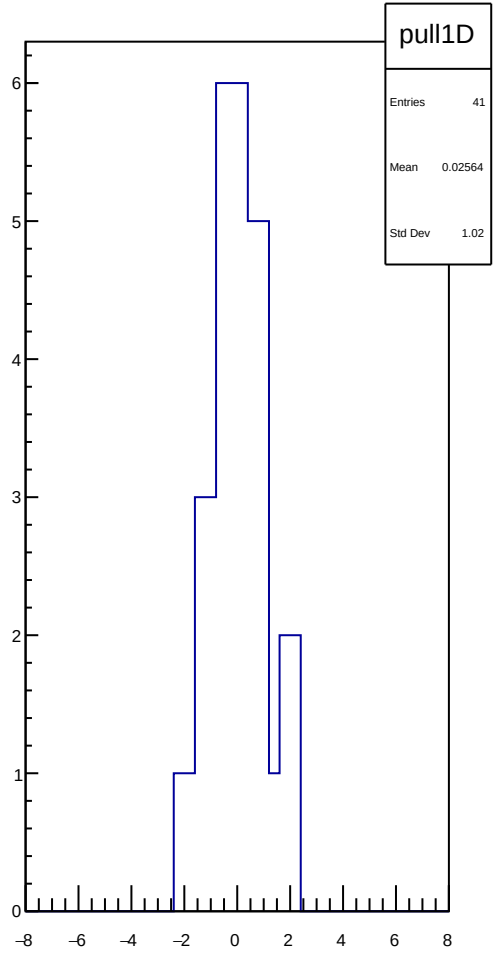

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4277 / 40
p0 8361 ± 9.43
10500
10000
9500
9000
8500
8000
7500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

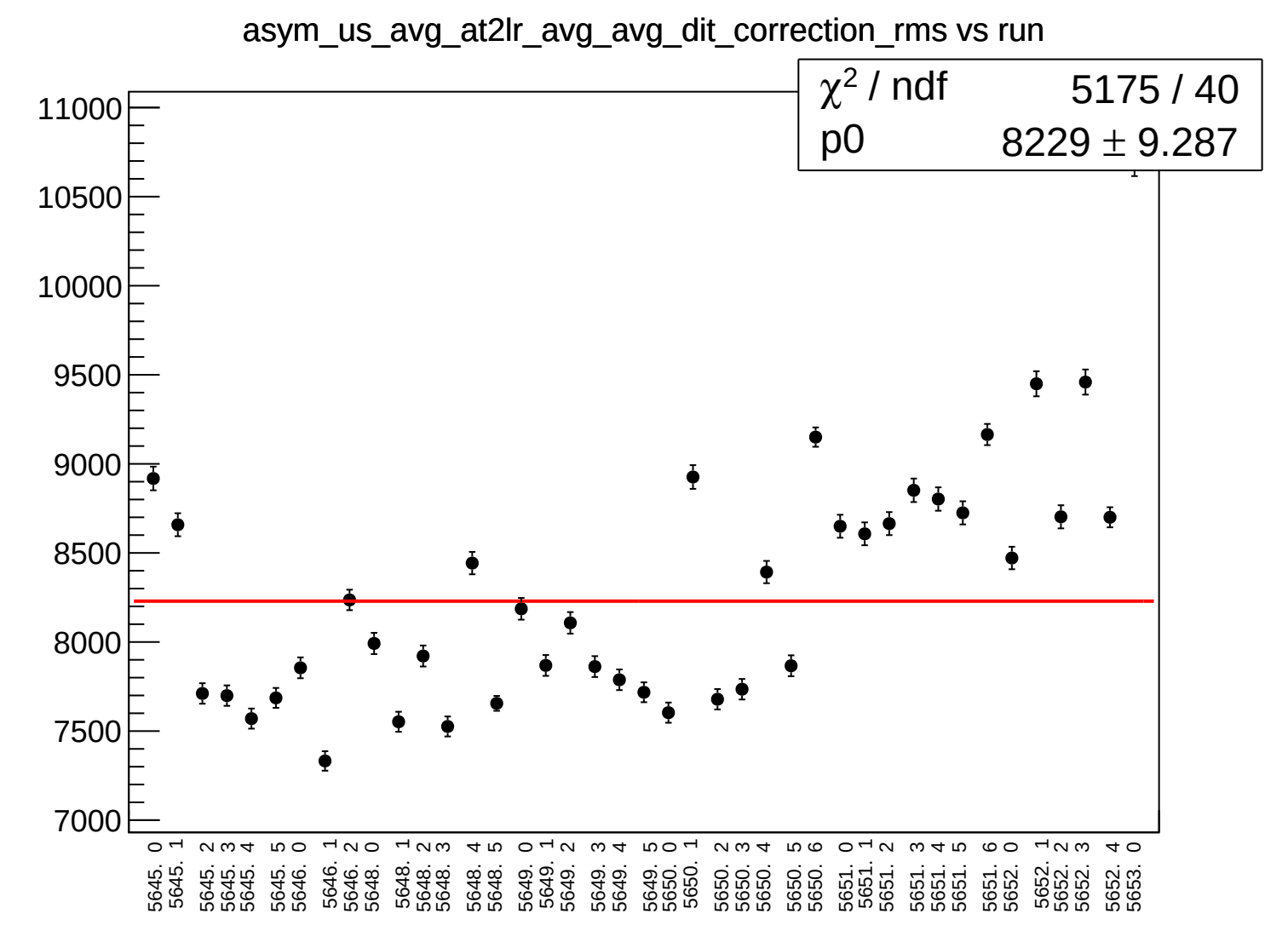

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 51.97 / 40
p0 7679 ± 2972
pull
Entries 41
Mean 32.49
Std Dev 0

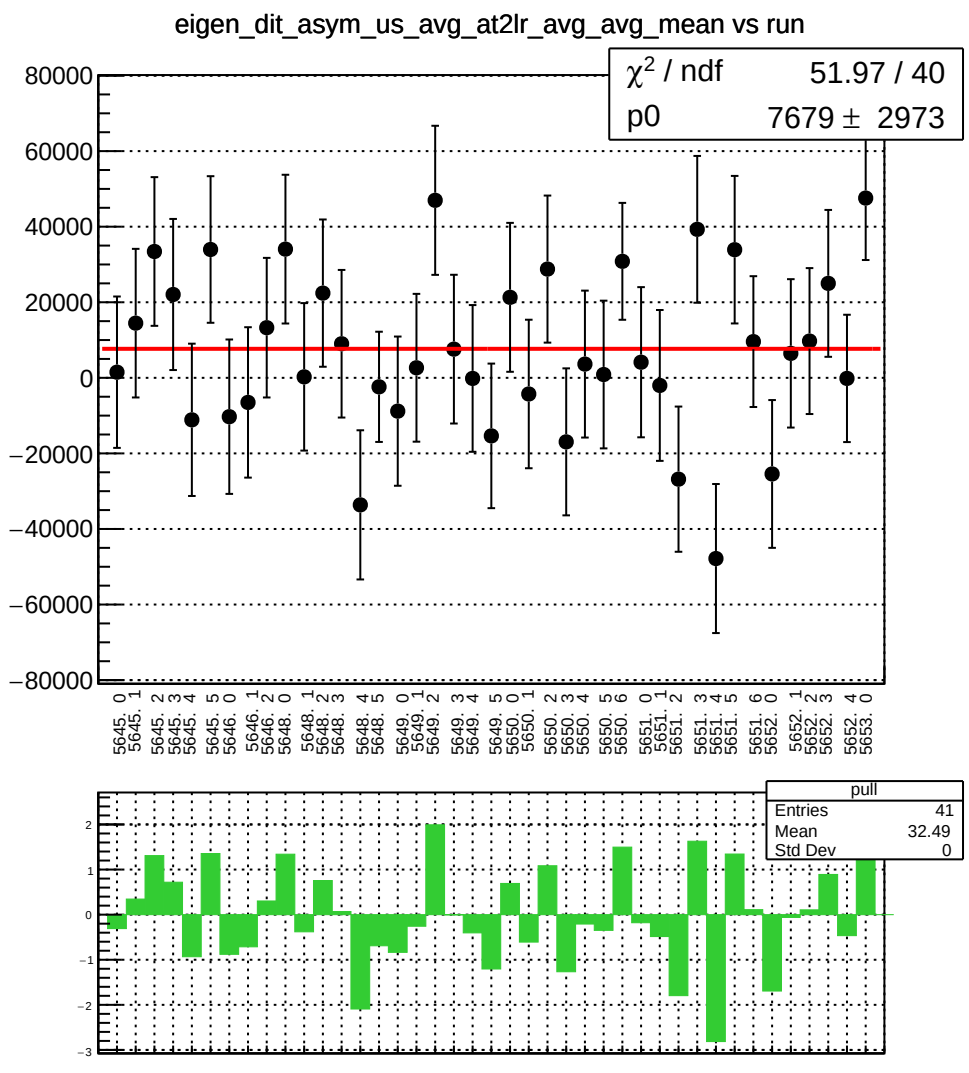

pull1D
Entries 41
Mean −0.01587
Std Dev 1.126

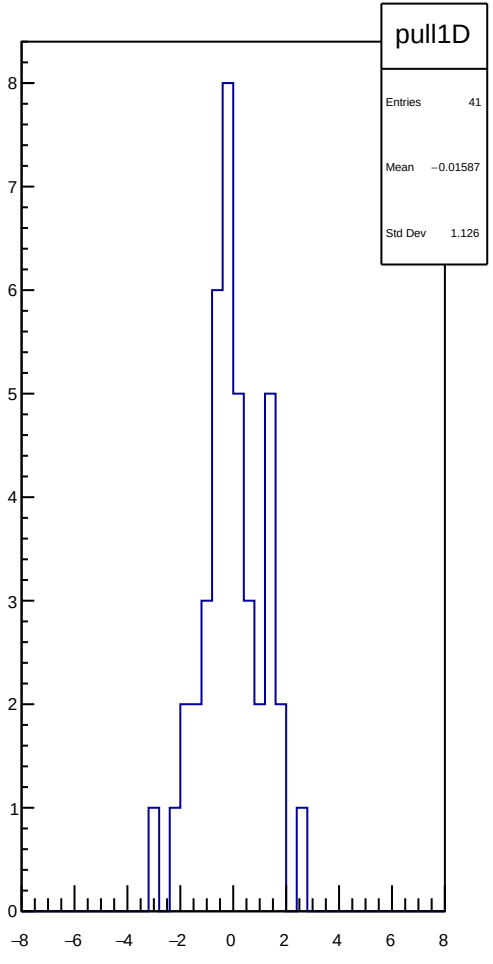

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 157.5 / 40
p0 1868 ± 2.102
1960
1940
1920
1900
1880
1860
1840
1820
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

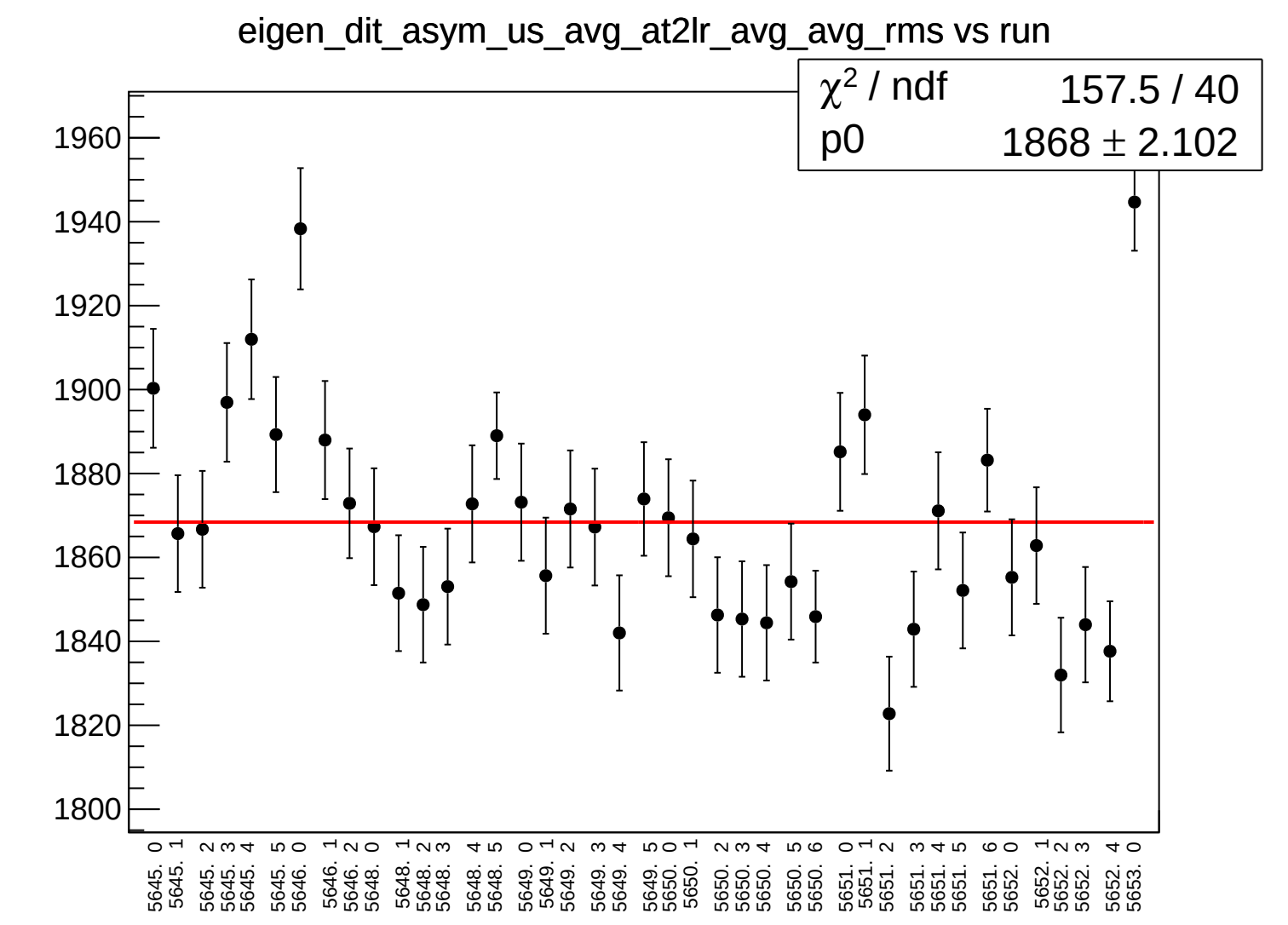

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 42.72 / 40
p0 −1.054e+04 ± 1.313e+04
pull
Entries 41
Mean 13.76
Std Dev 27.16

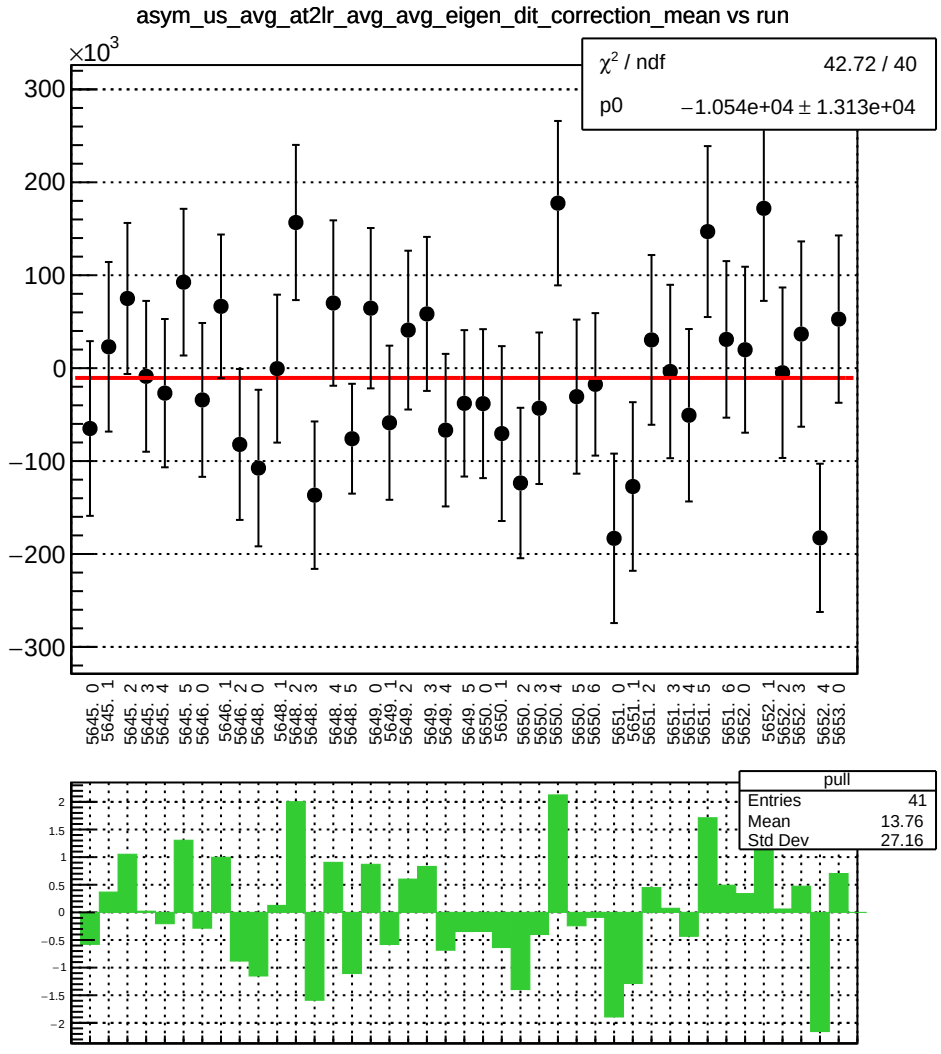

pull1D
Entries 41
Mean 0.02564
Std Dev 1.02

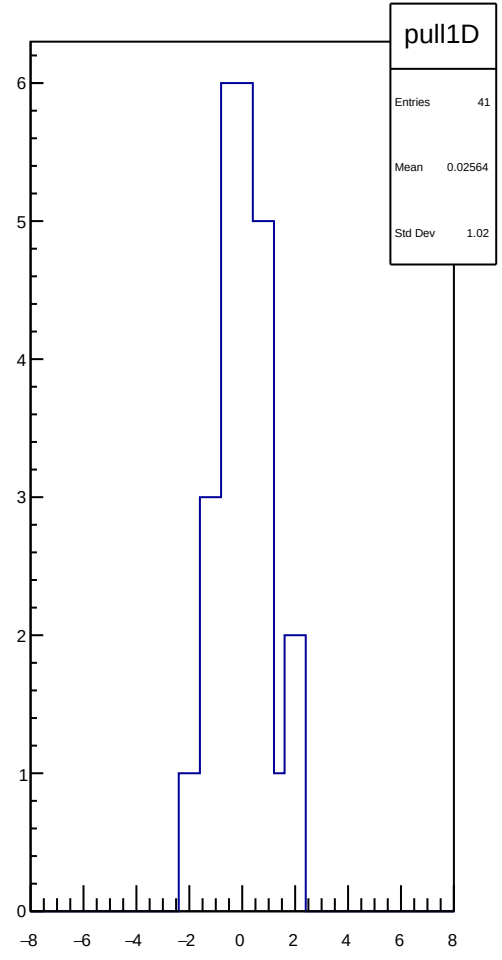

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5175 / 40
p0 8229 ± 9.287
11000
10500
10000
9500
9000
8500
8000
7500
7000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

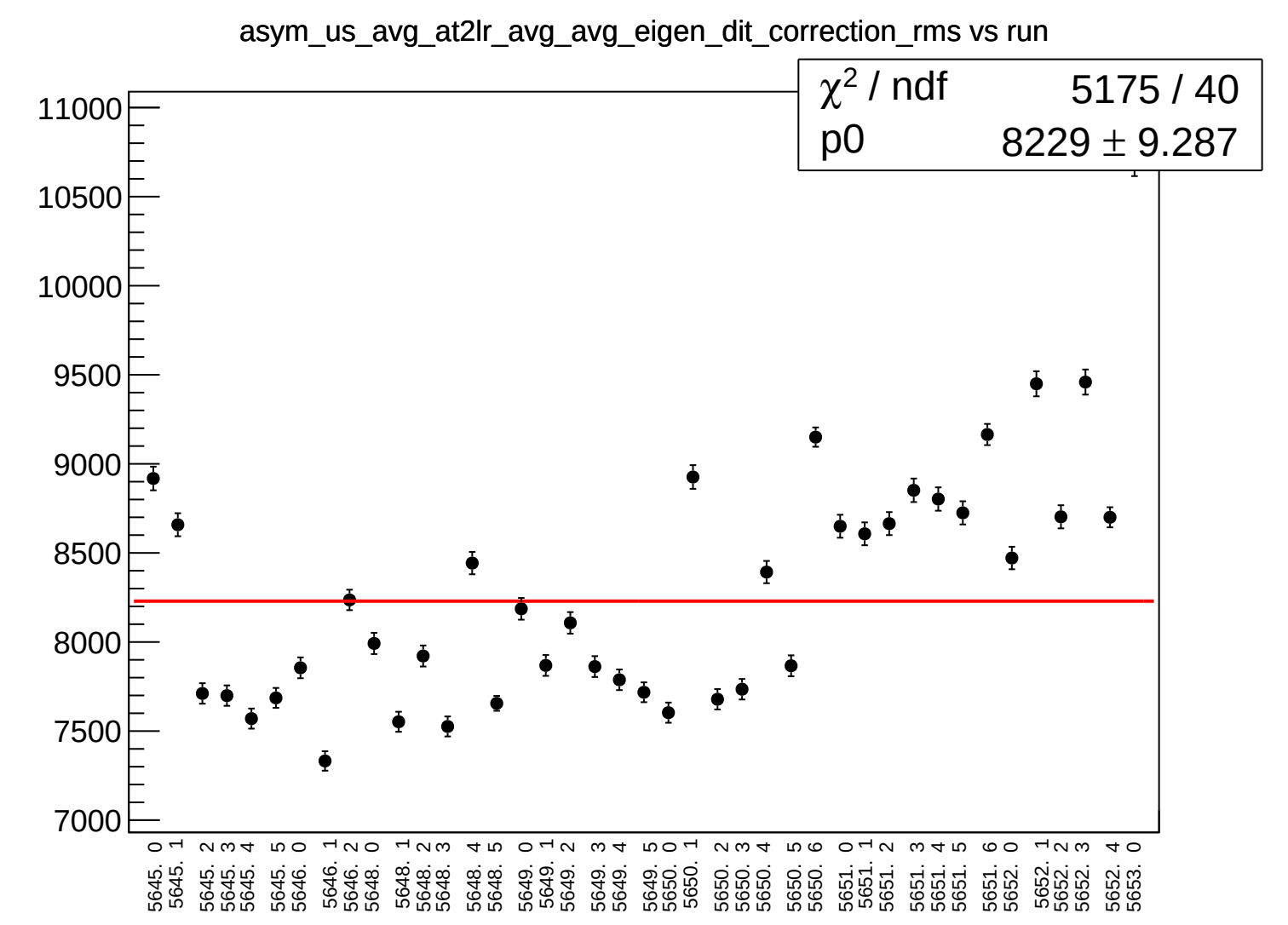

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 51.97 / 40
p0 7679 ± 2973
pull
Entries 41
Mean 32.49
Std Dev 0

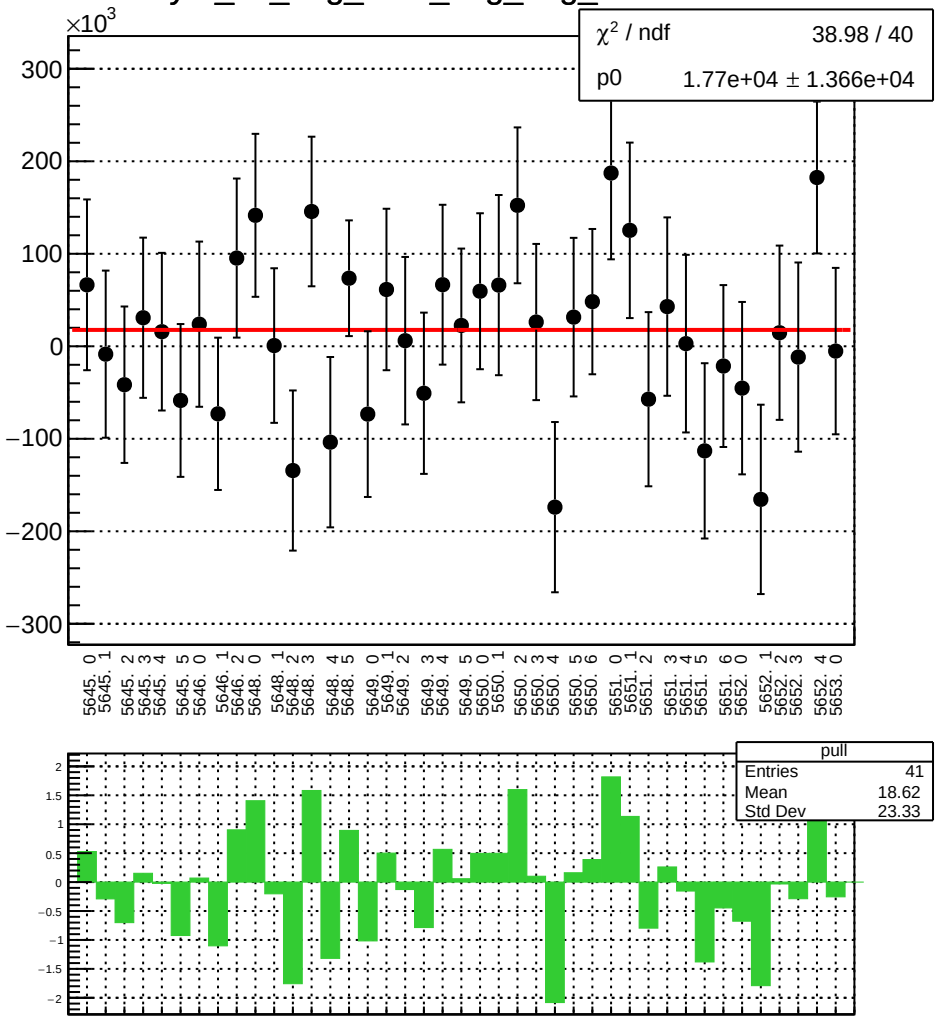

pull1D
Entries 41
Mean −0.01587
Std Dev 1.126

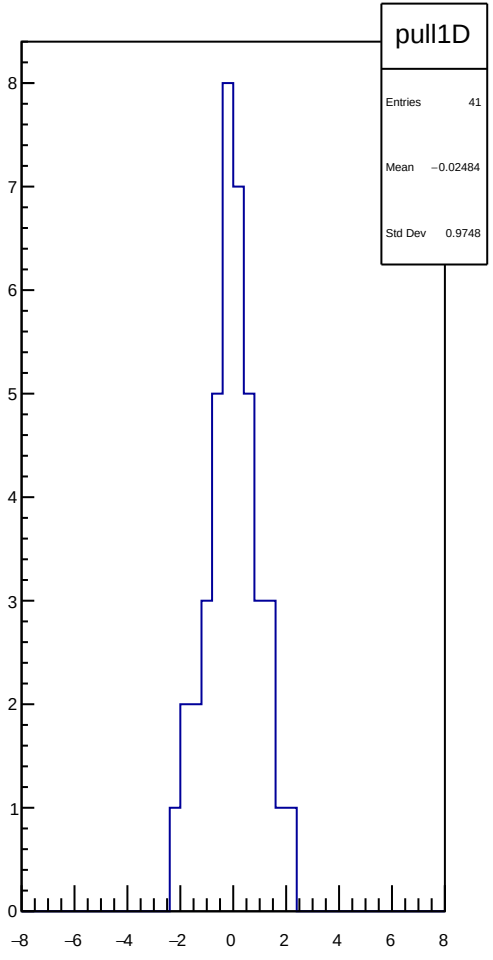

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 157.5 / 40
p0 1868 ± 2.102
1960
1940
1920
1900
1880
1860
1840
1820
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

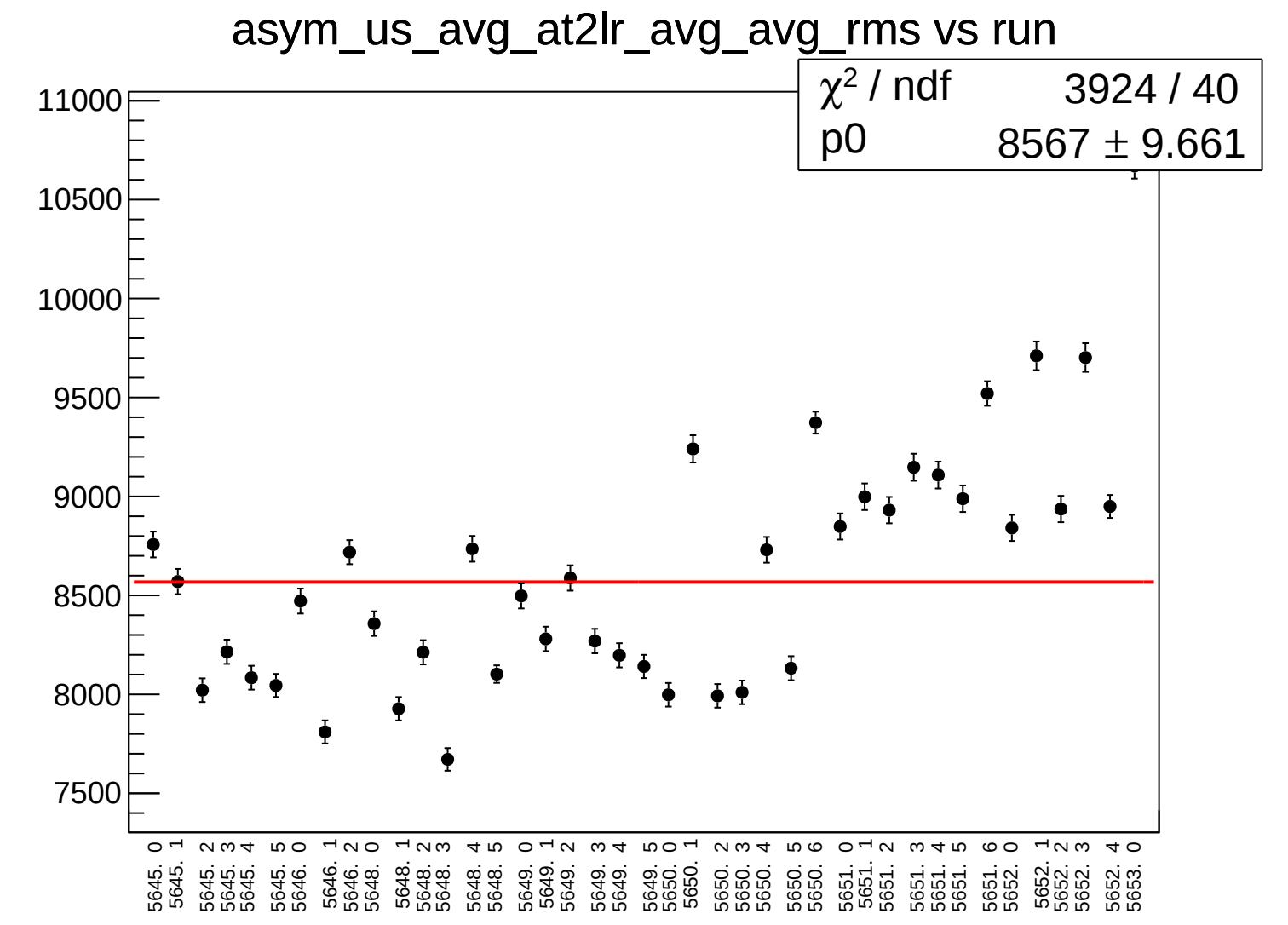

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42.72 / 40
p0 −1.054e+04 ± 1.313e+04
pull
Entries 41
Mean 13.76
Std Dev 27.16

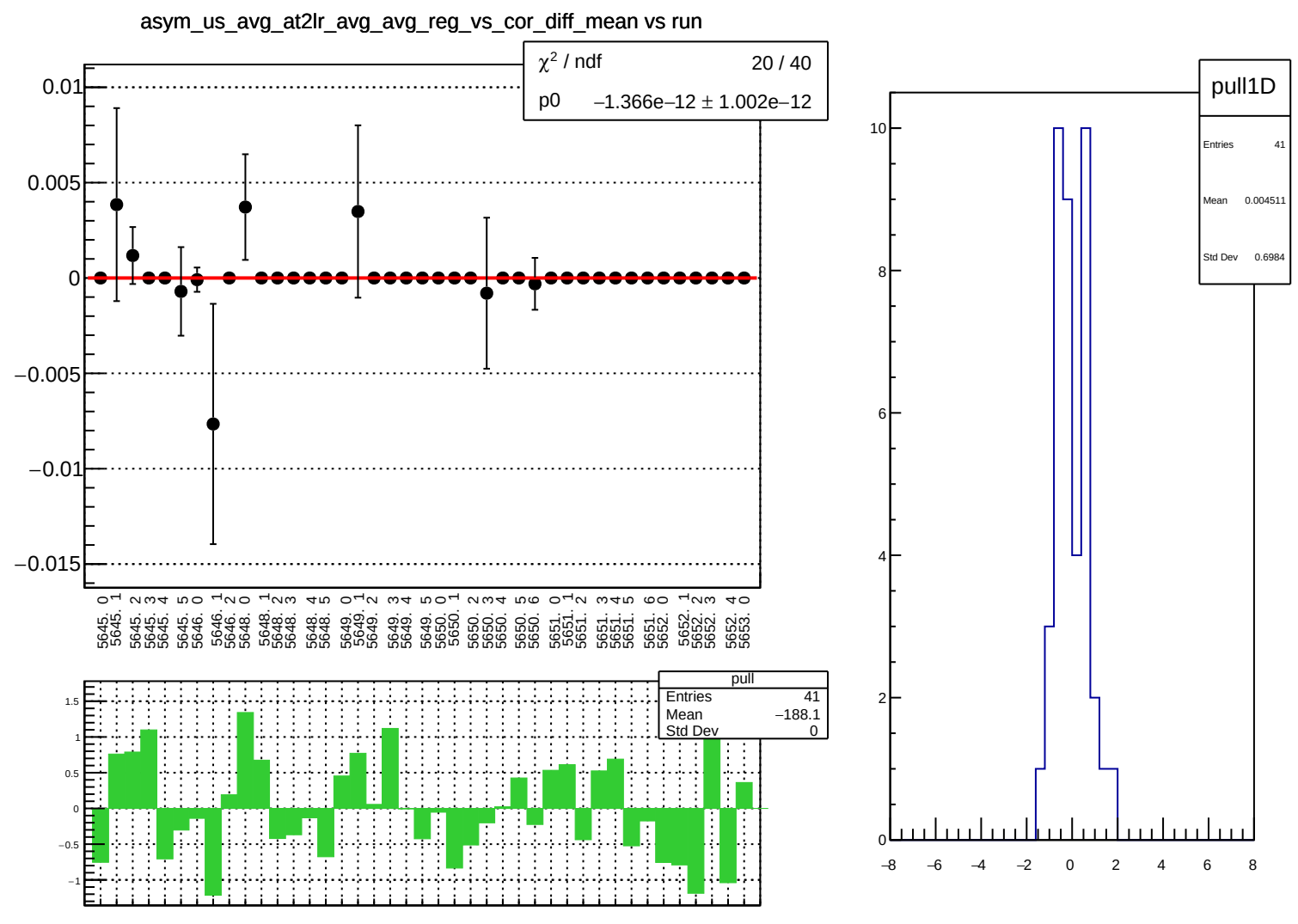

pull1D
Entries 41
Mean 0.02564
Std Dev 1.02

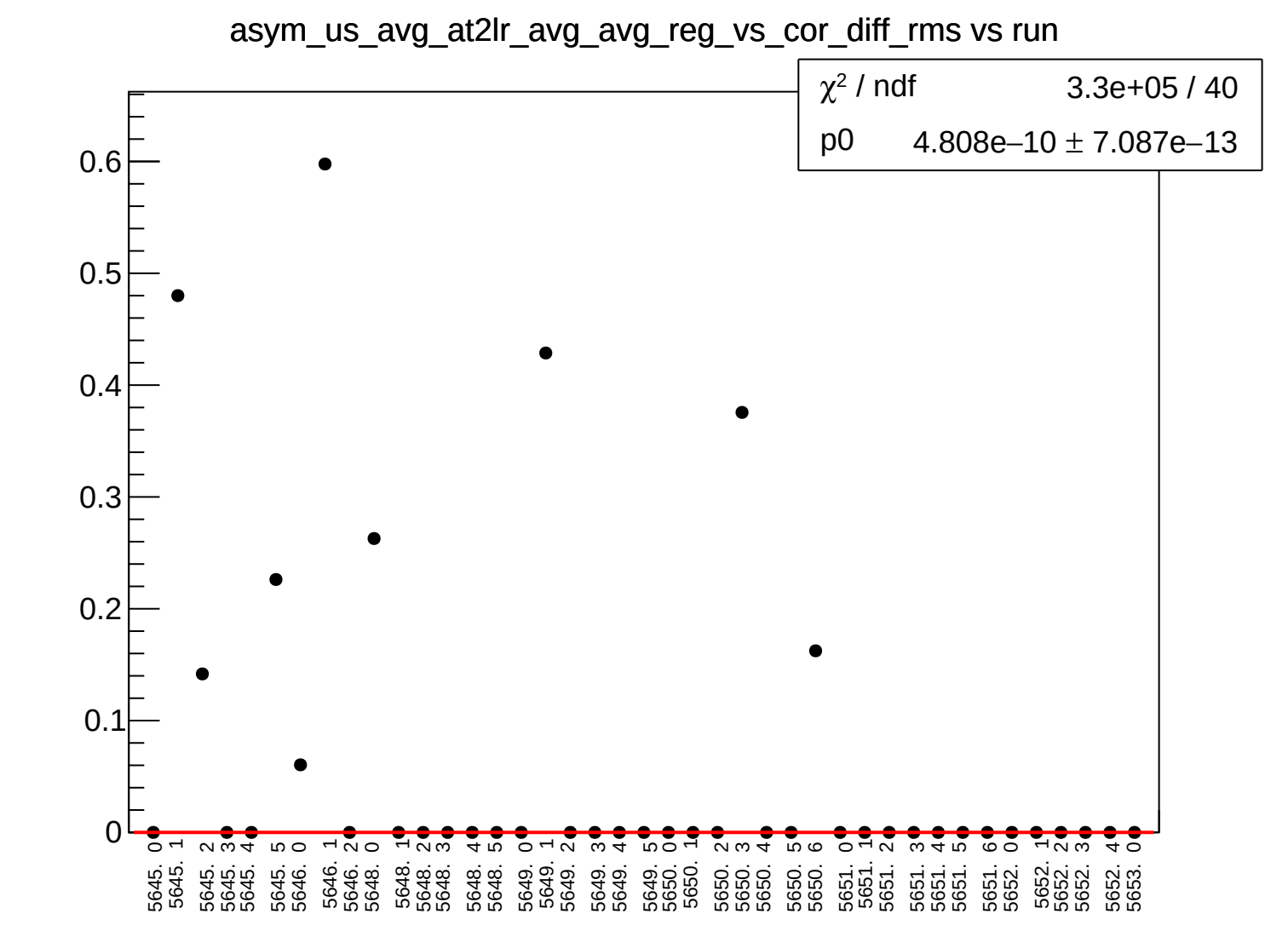

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5175 / 40
p0 8229 ± 9.287
11000
10500
10000
9500
9000
8500
8000
7500
7000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

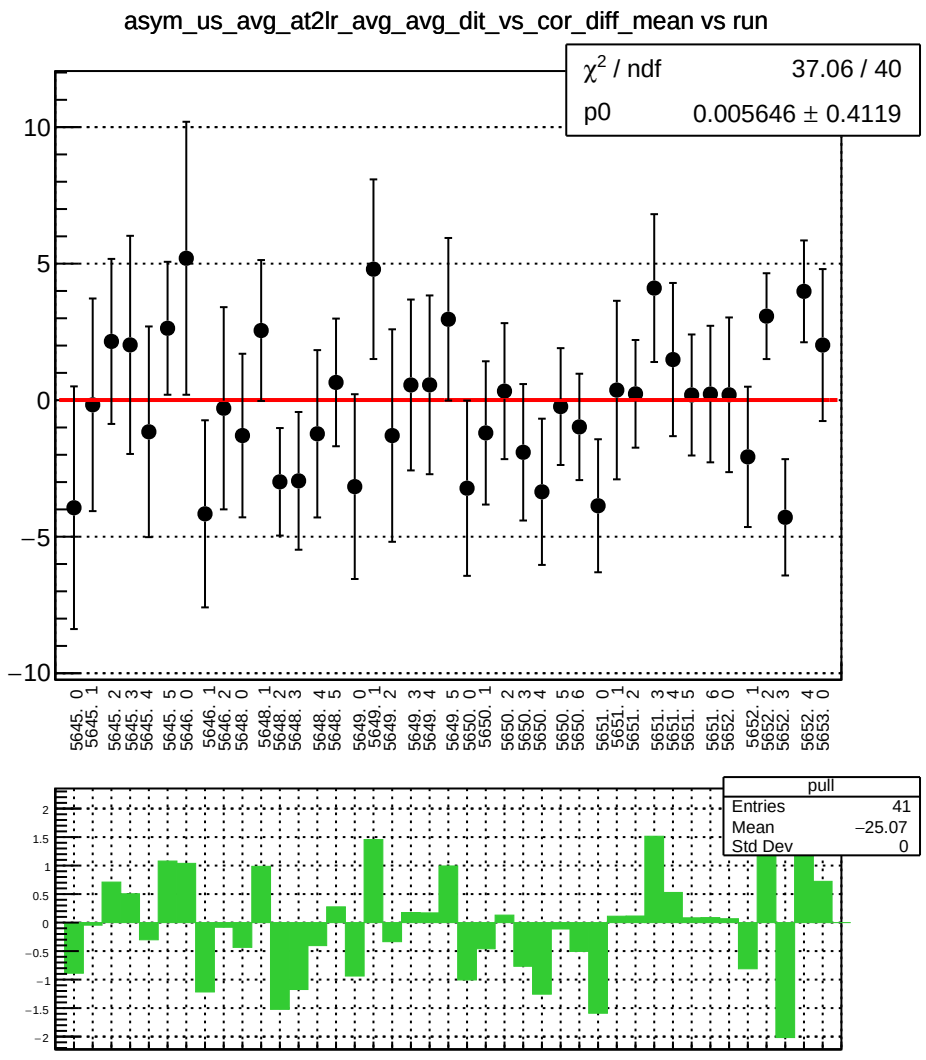

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 38.98 / 40
p0 1.77e+04 ± 1.366e+04
300
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.62
Std Dev 23.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

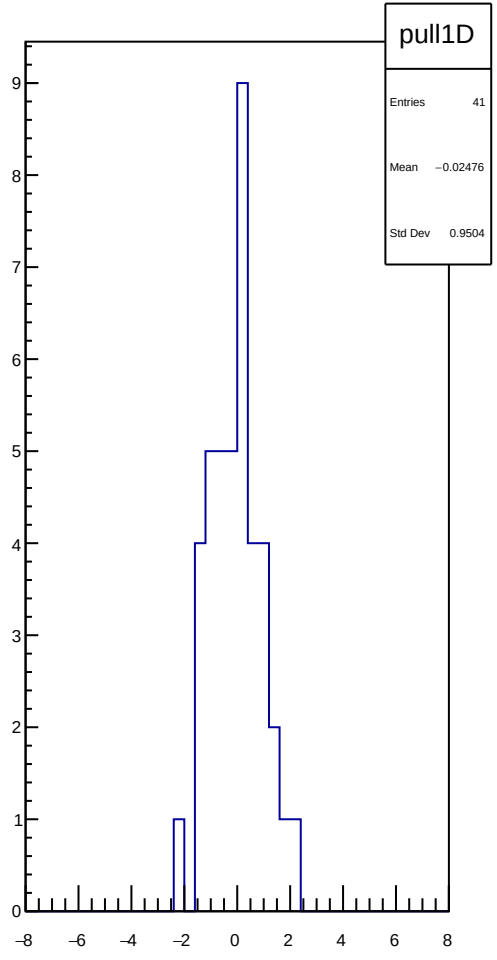

pull1D
Entries 41
Mean −0.02484
Std Dev 0.9748
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

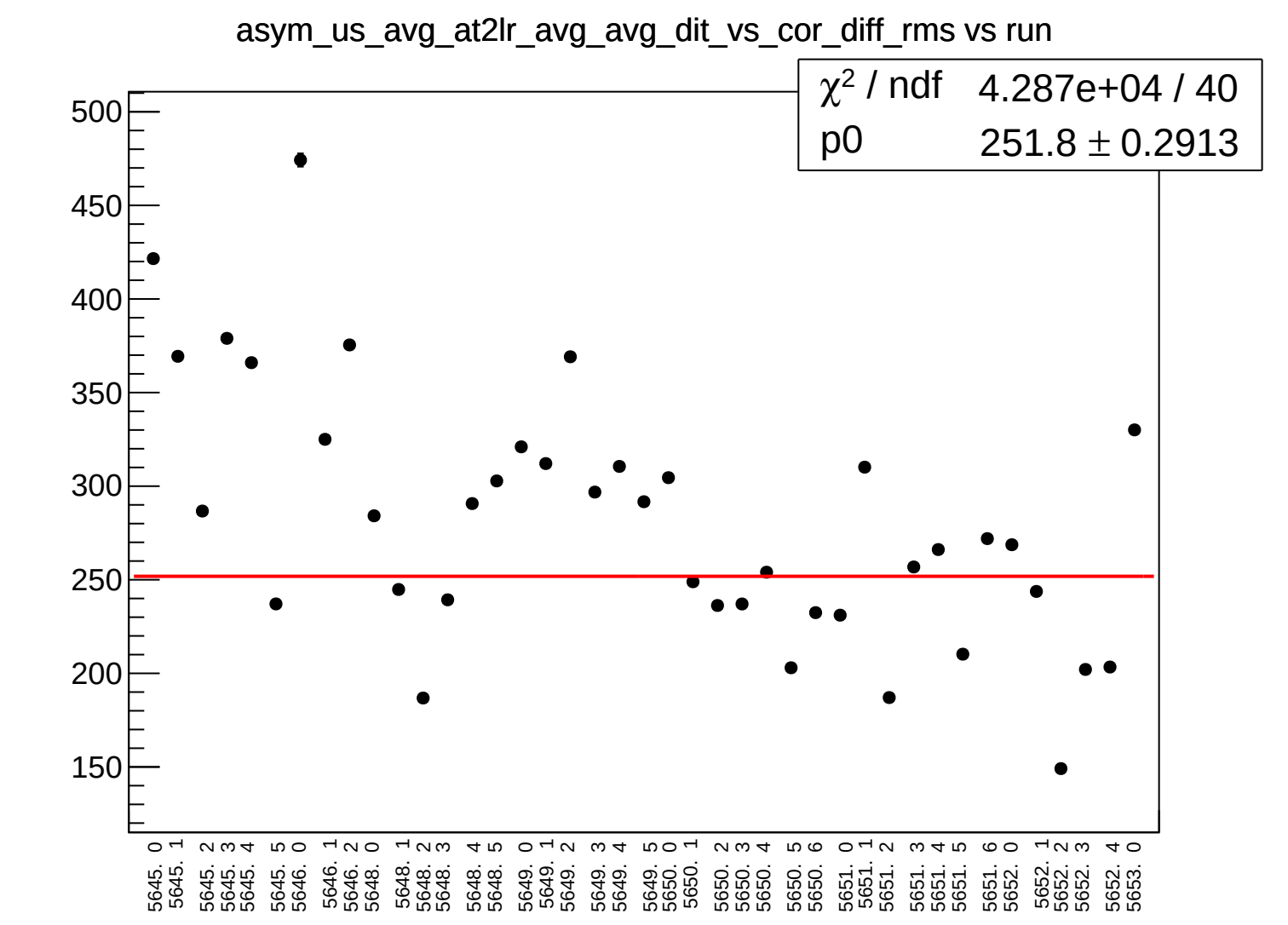

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3924 / 40
p0 8567 ± 9.661
11000
10500
10000
9500
9000
8500
8000
7500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

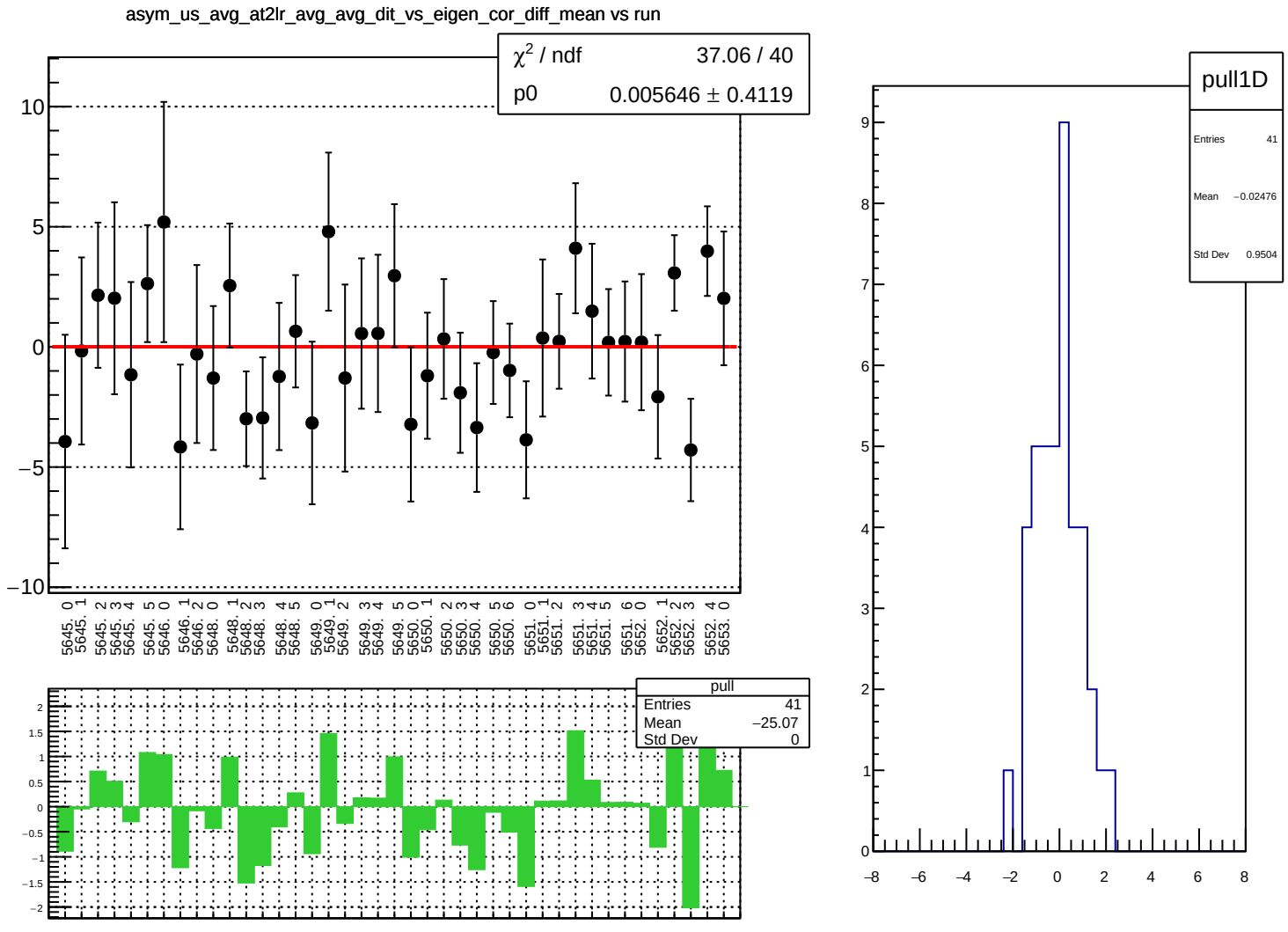

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20 / 40
p0 −1.366e−12 ± 1.002e−12
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −188.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.004511
Std Dev 0.6984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

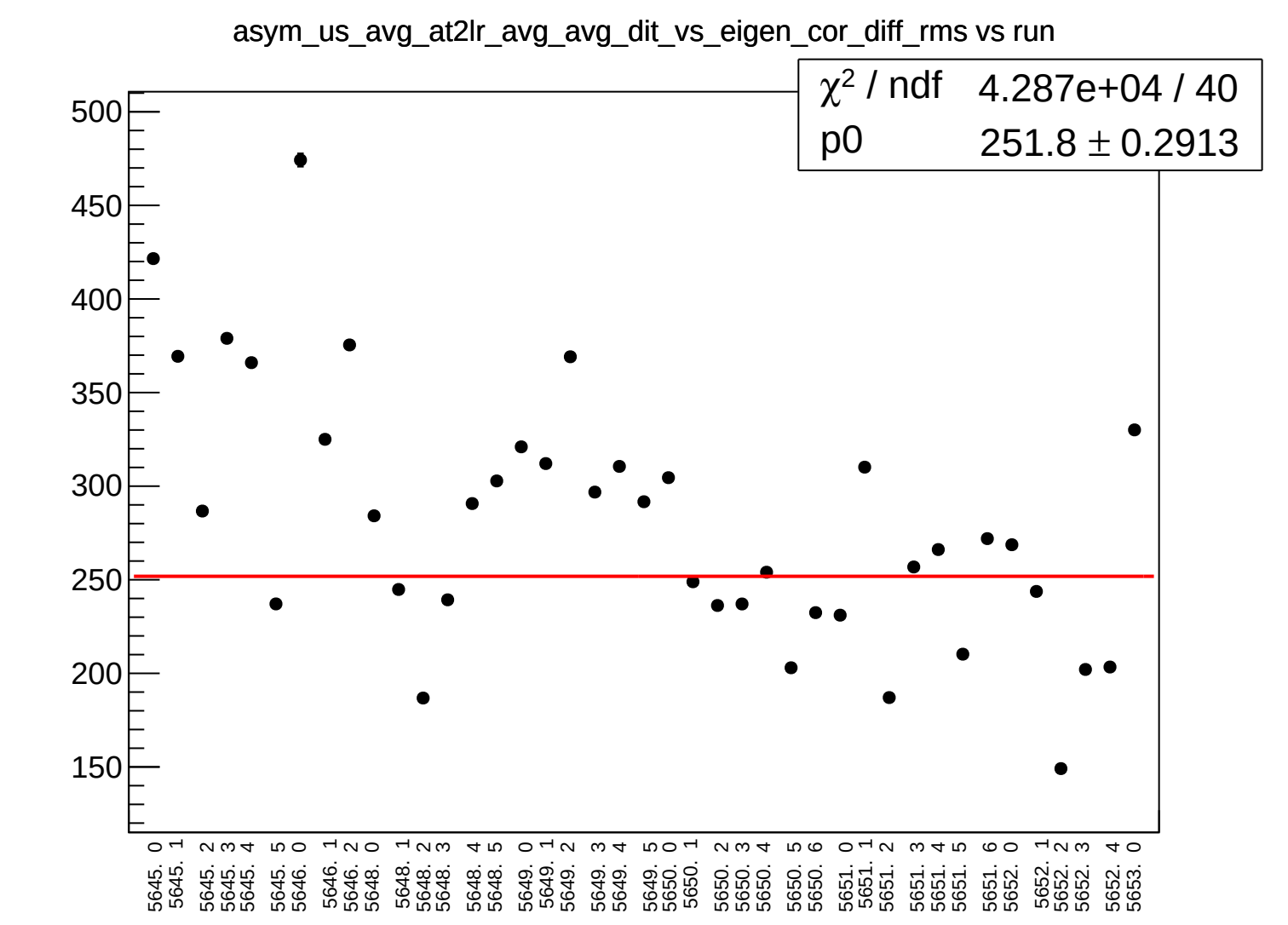

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.3e+05 / 40
p0 4.808e−10 ± 7.087e−13
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

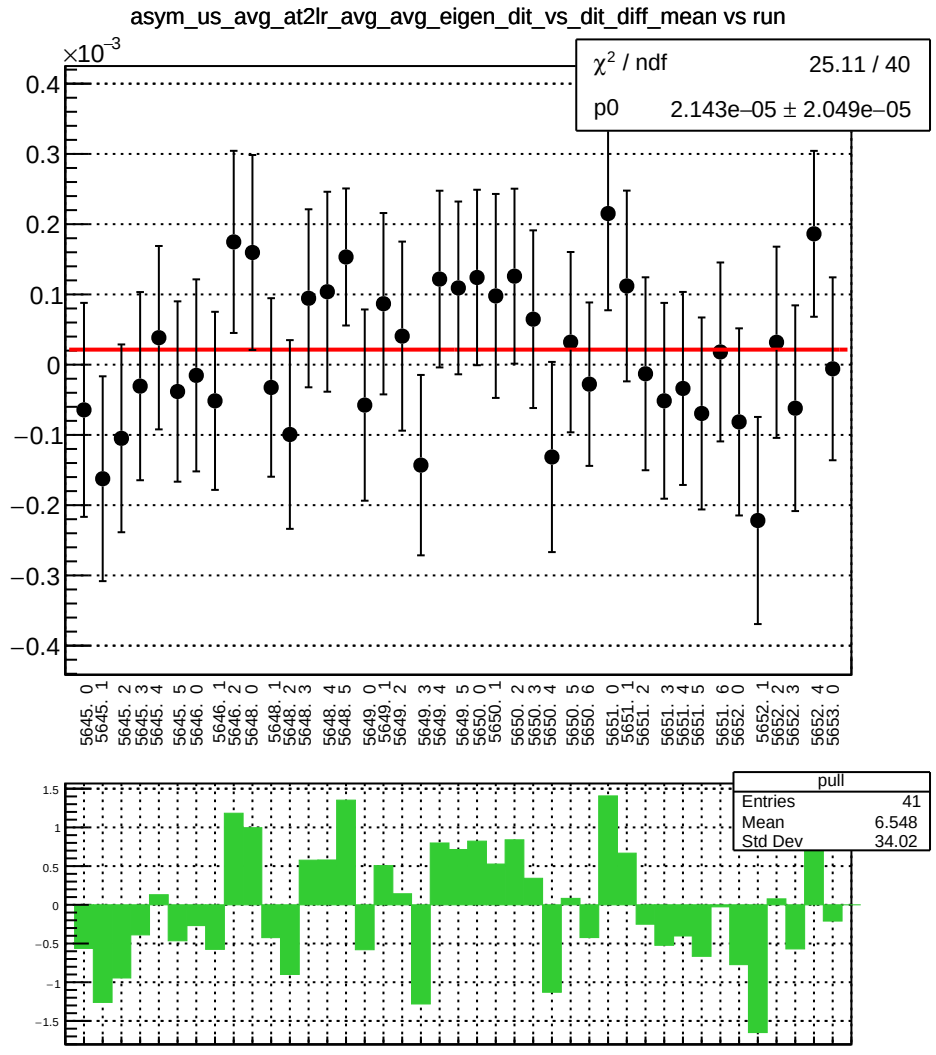

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.06 / 40
p0 0.005646 ± 0.4119
pull
Entries 41
Mean −25.07
Std Dev 0

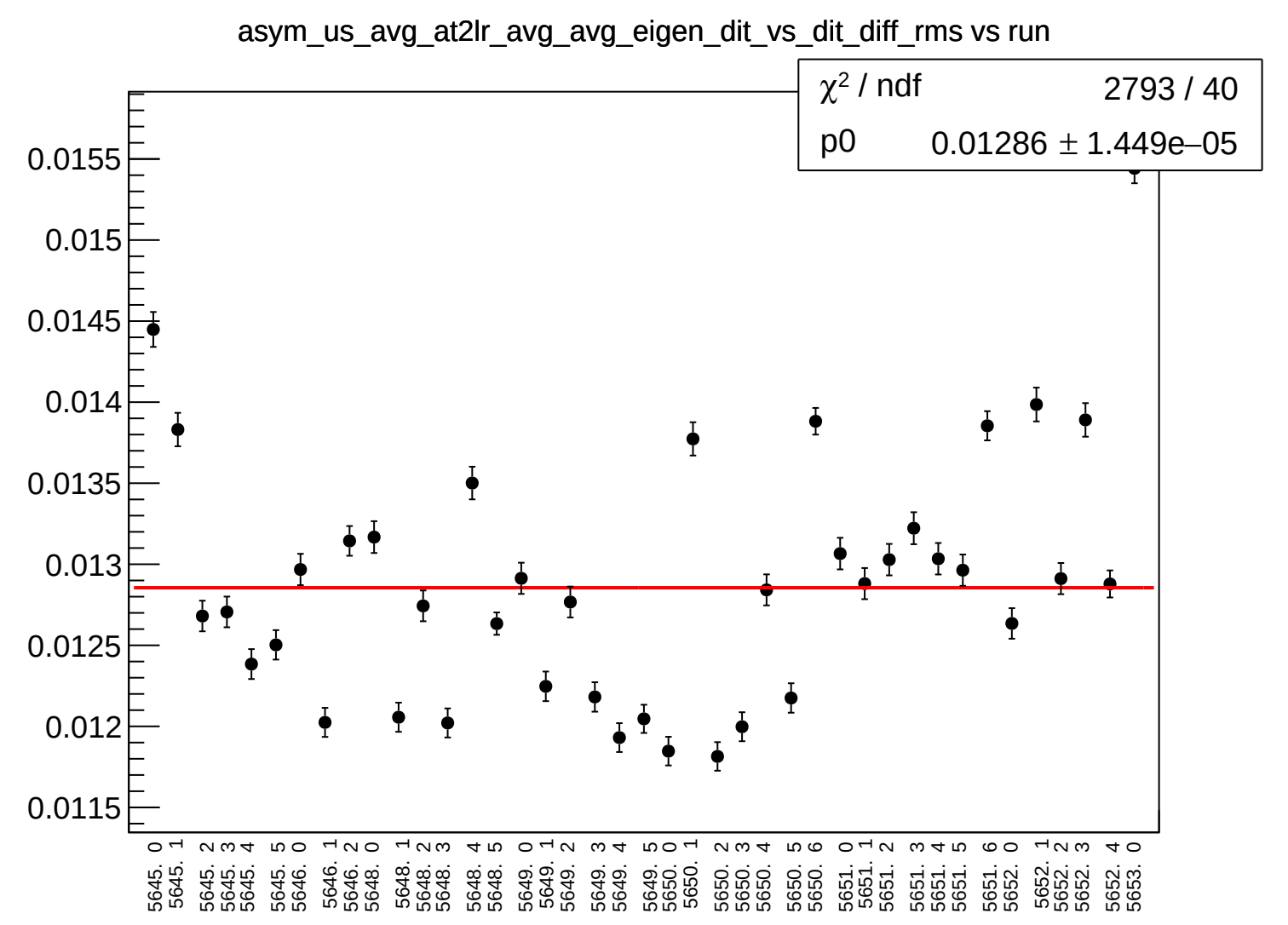

pull1D
Entries 41
Mean −0.02476
Std Dev 0.9504

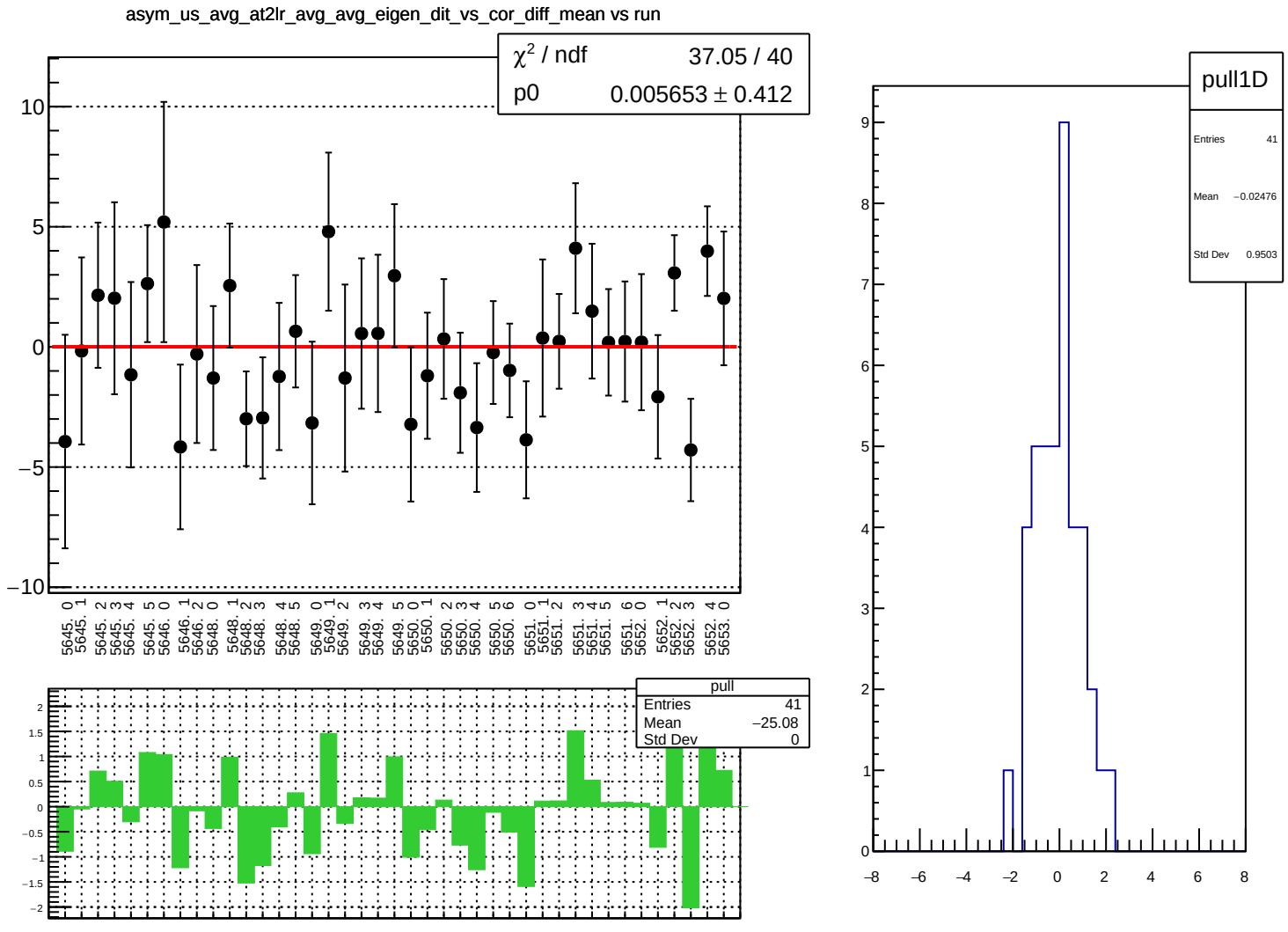

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 40
p0 251.8 ± 0.2913
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

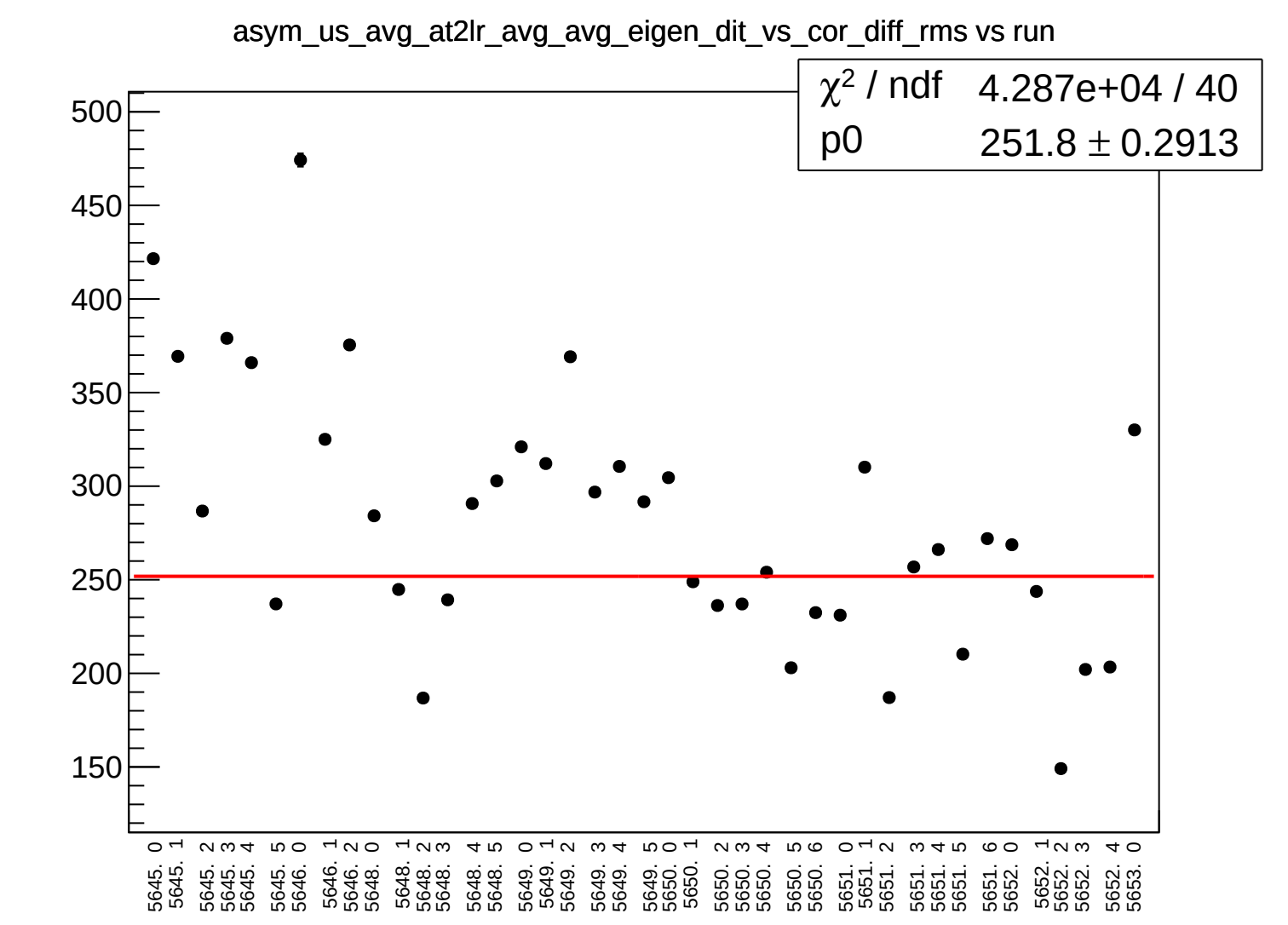

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.06 / 40
p0 0.005646 ± 0.4119
pull
Entries 41
Mean −25.07
Std Dev 0
pull1D
Entries 41
Mean −0.02476
Std Dev 0.9504

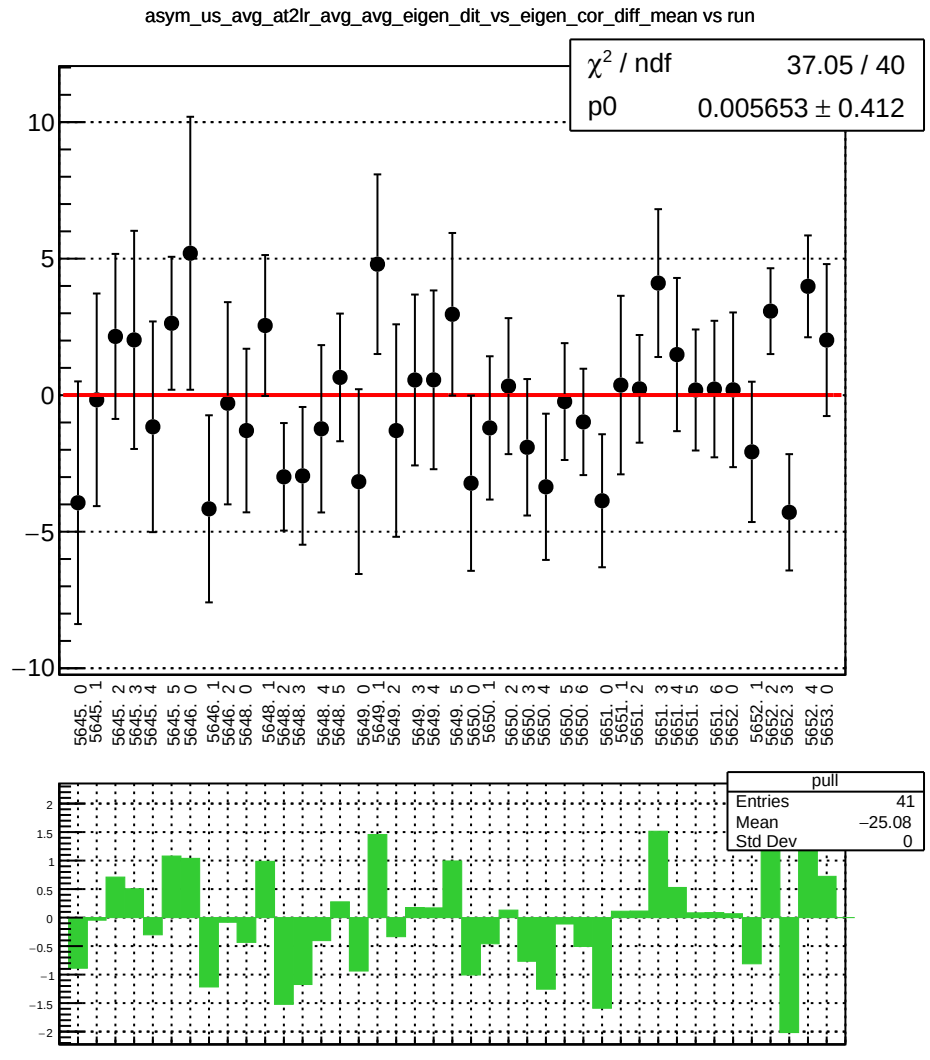

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 40
p0 251.8 ± 0.2913
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

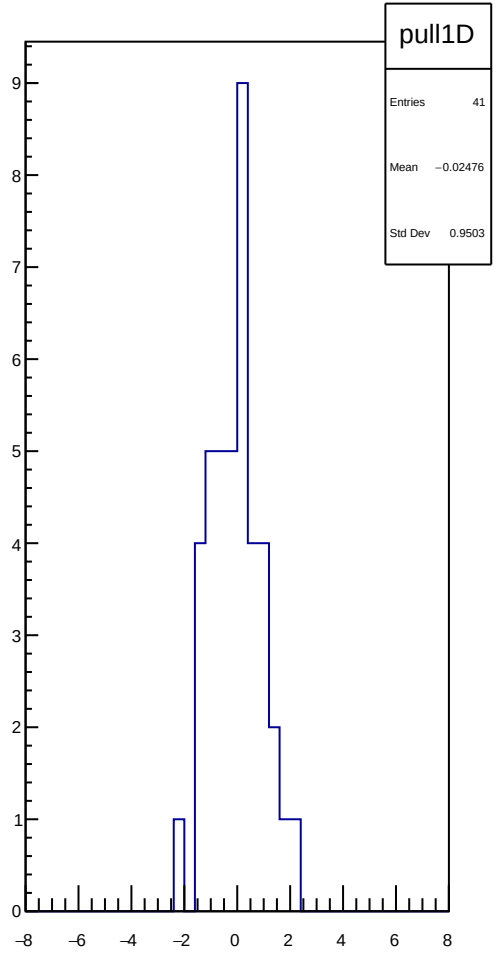

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 25.11 / 40
p0 2.143e−05 ± 2.049e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 6.548
Std Dev 34.02
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.02756
Std Dev 0.7821
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

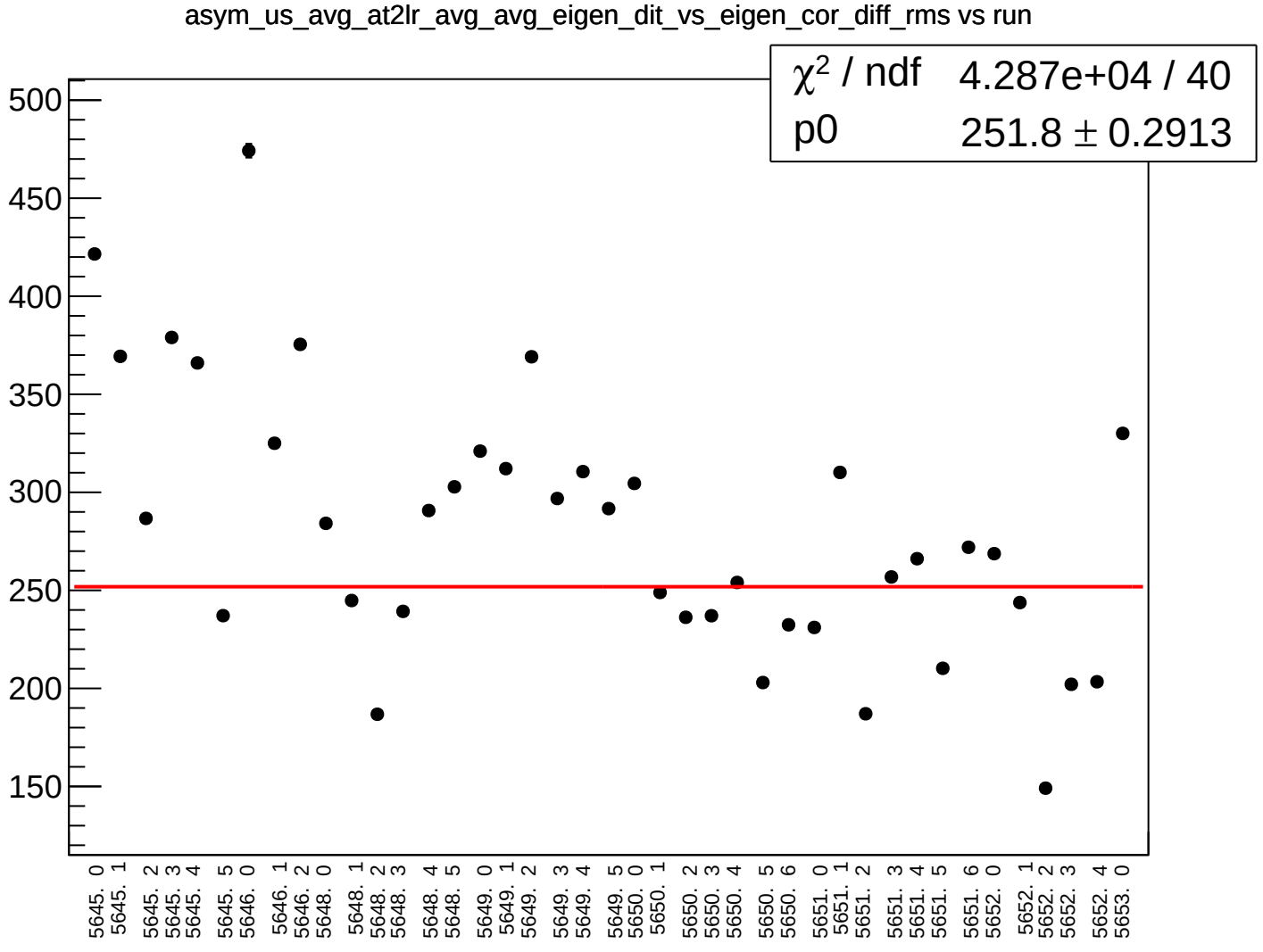

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2793 / 40
p0 0.01286 ± 1.449e−05
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

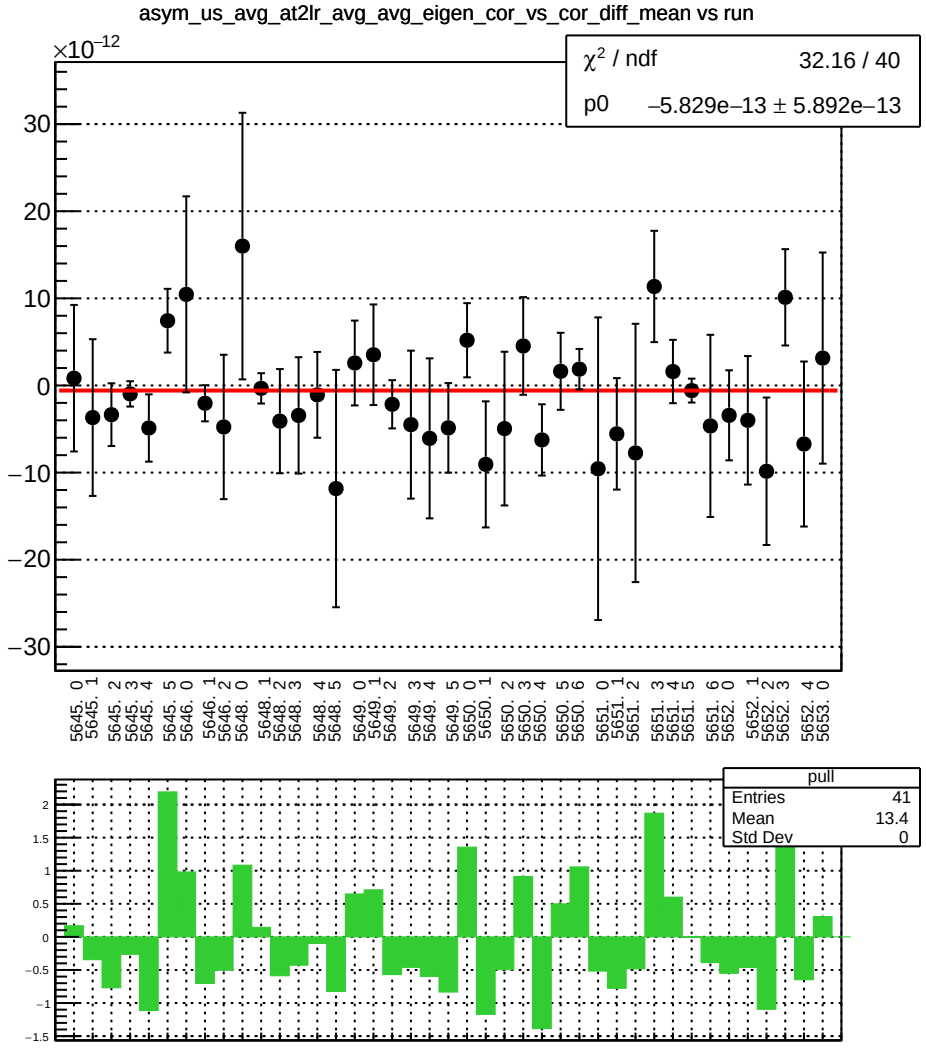

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.05 / 40
p0 0.005653 ± 0.412
pull
Entries 41
Mean −25.08
Std Dev 0
pull1D
Entries 41
Mean −0.02476
Std Dev 0.9503

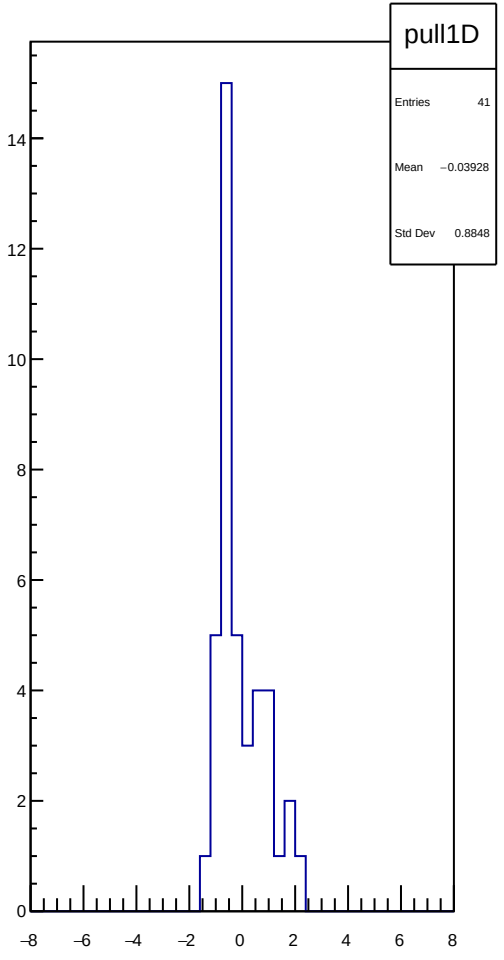

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 40
p0 251.8 ± 0.2913
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

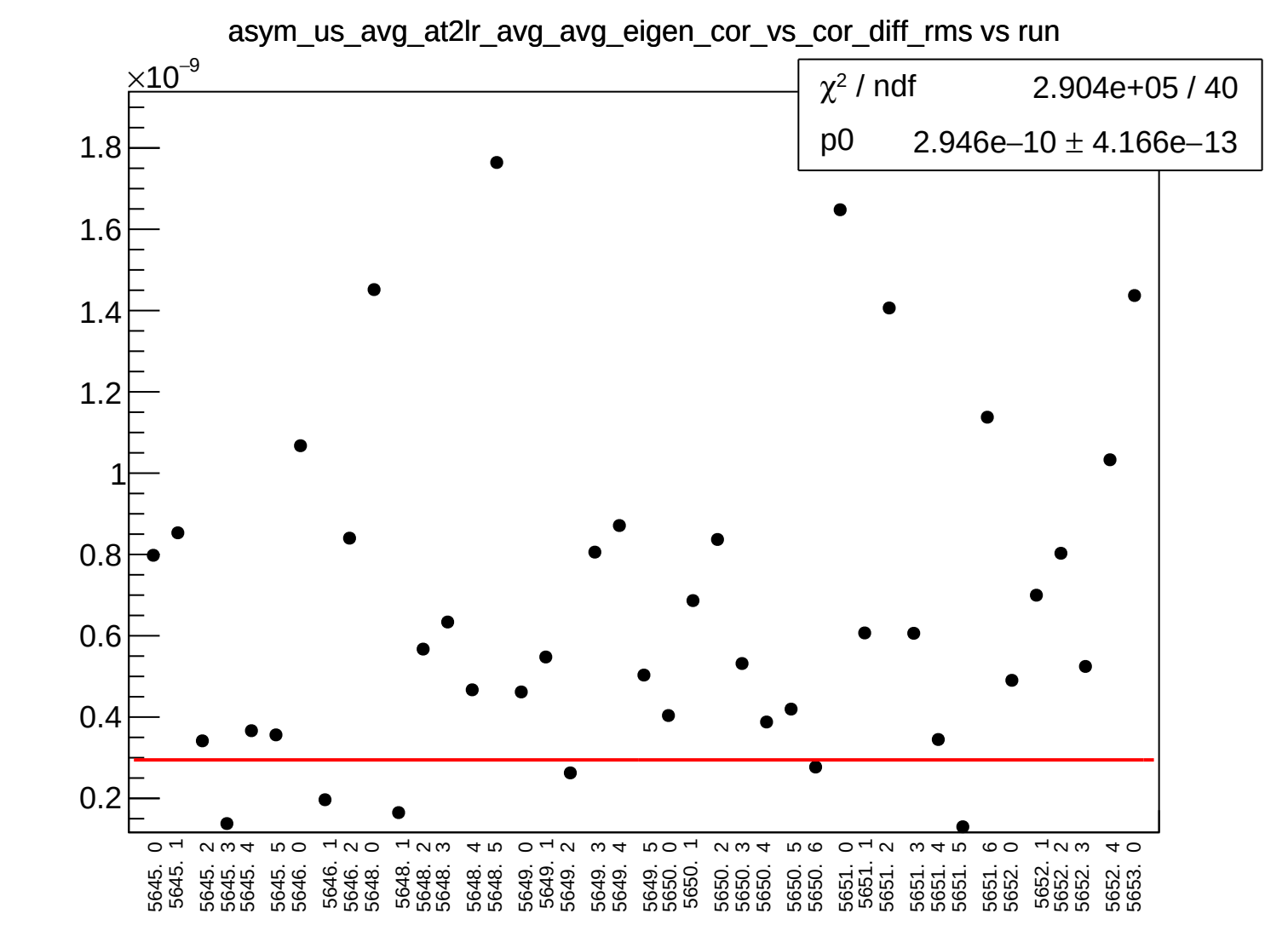

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.05 / 40
p0 0.005653 ± 0.412
pull
Entries 41
Mean −25.08
Std Dev 0

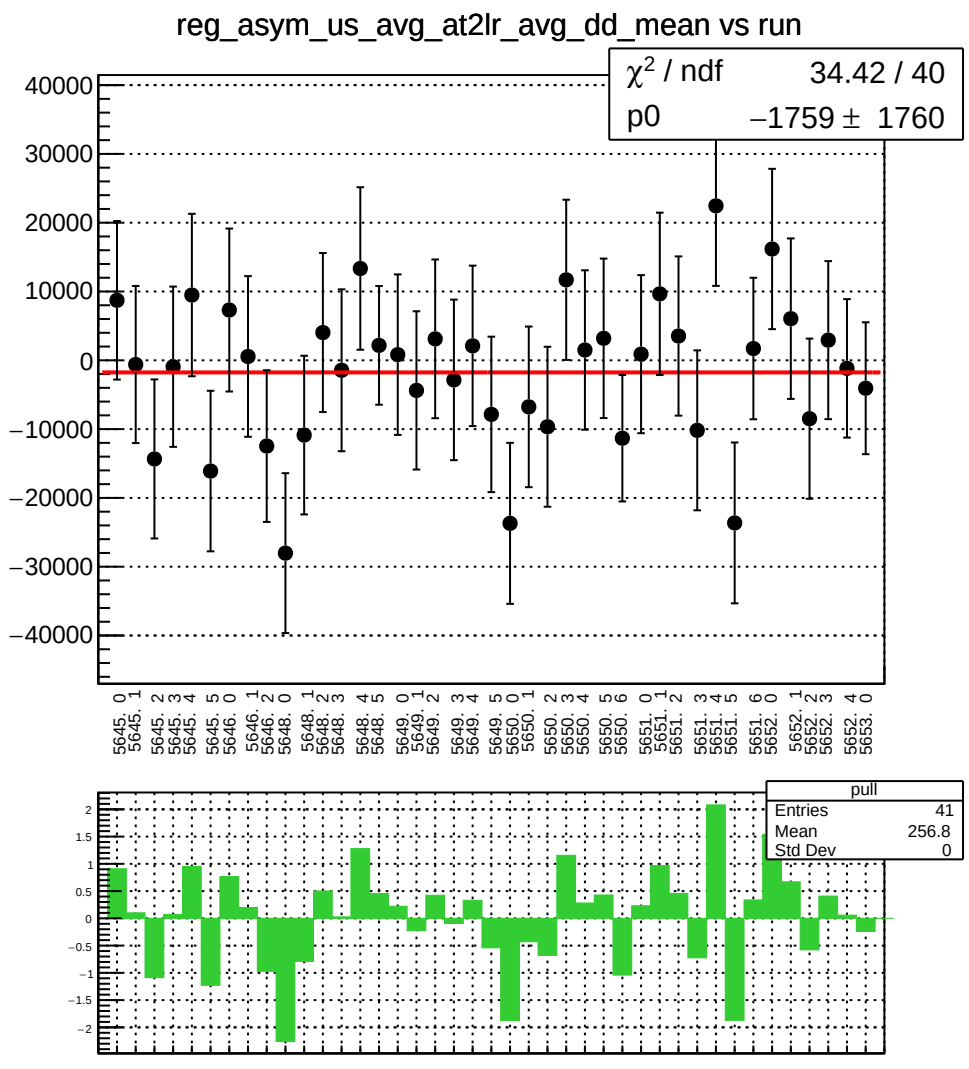

pull1D
Entries 41
Mean −0.02476
Std Dev 0.9503

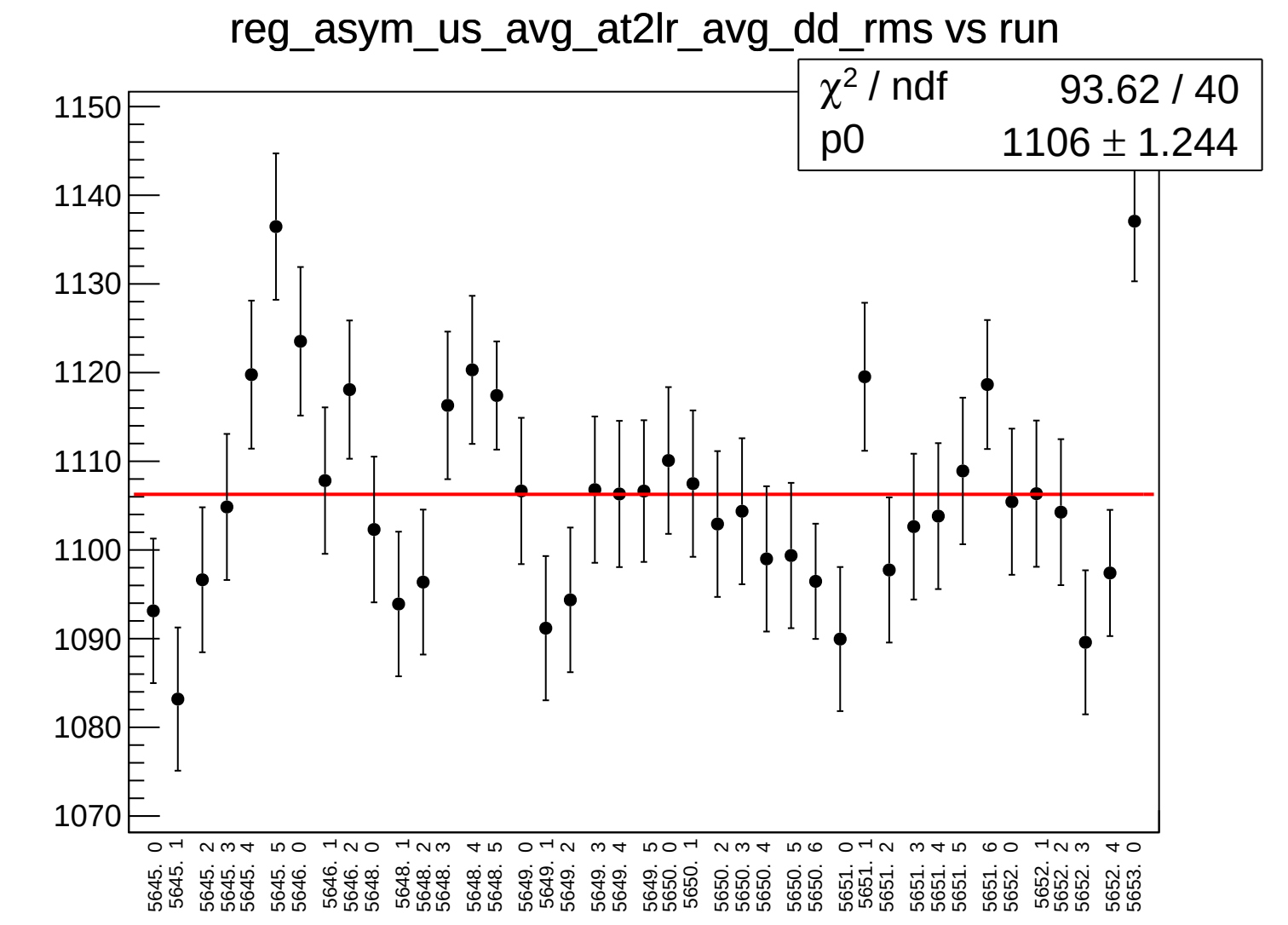

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.287e+04 / 40
p0 251.8 ± 0.2913
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

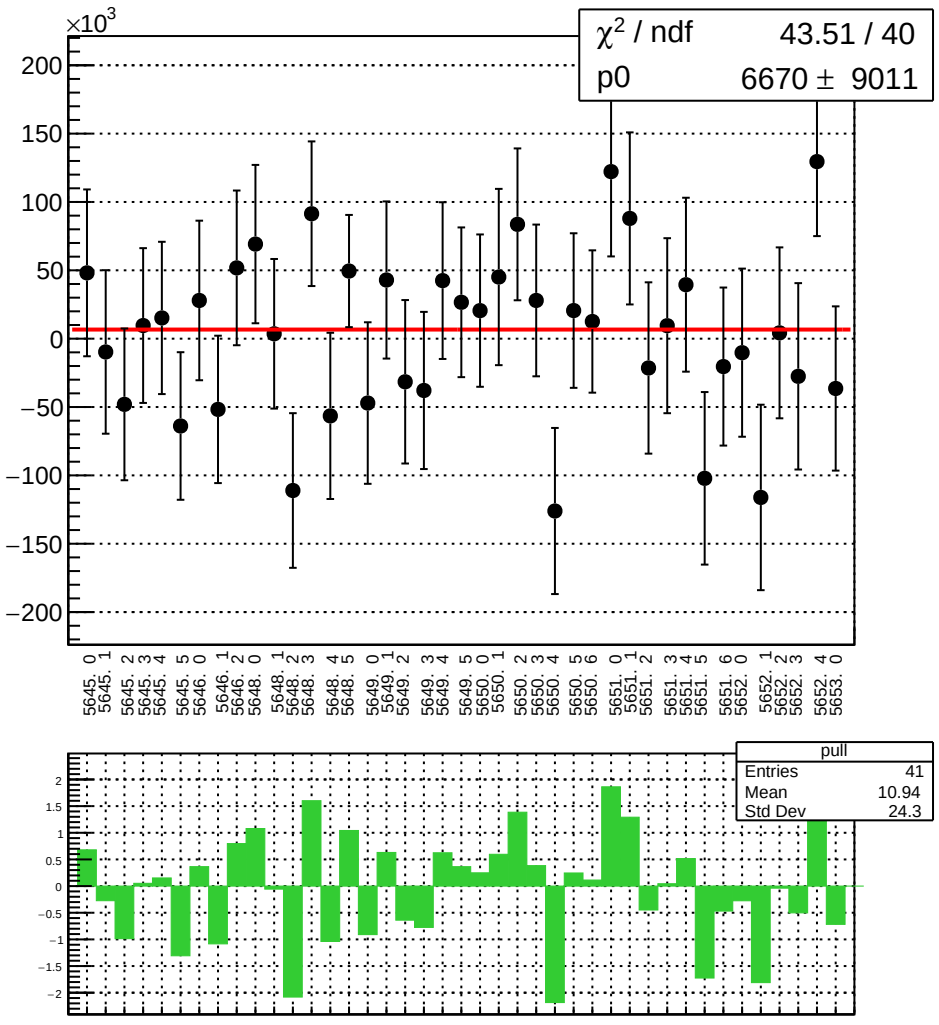

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.16 / 40
p0 −5.829e−13 ± 5.892e−13
pull
Entries 41
Mean 13.4
Std Dev 0

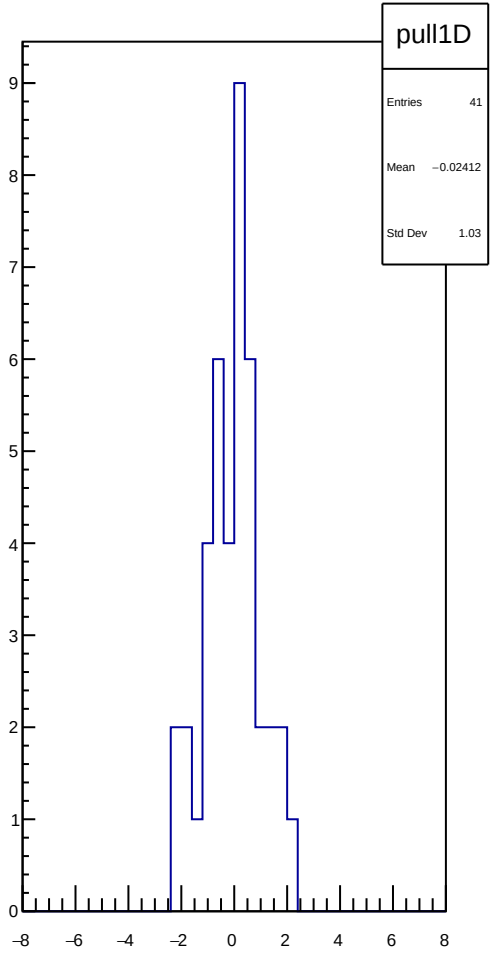

pull1D
Entries 41
Mean −0.03928
Std Dev 0.8848

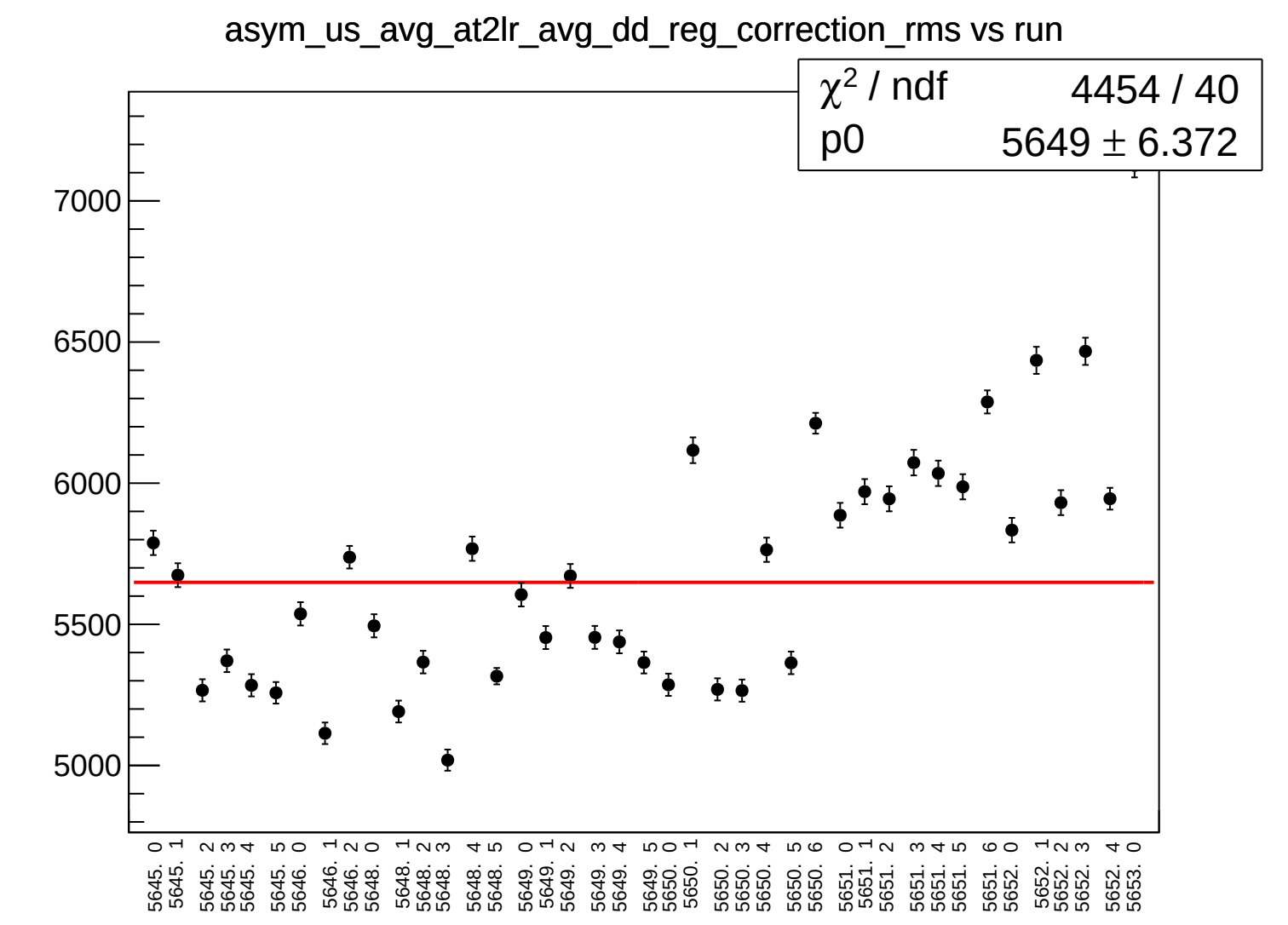

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.904e+05 / 40
p0 2.946e−10 ± 4.166e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

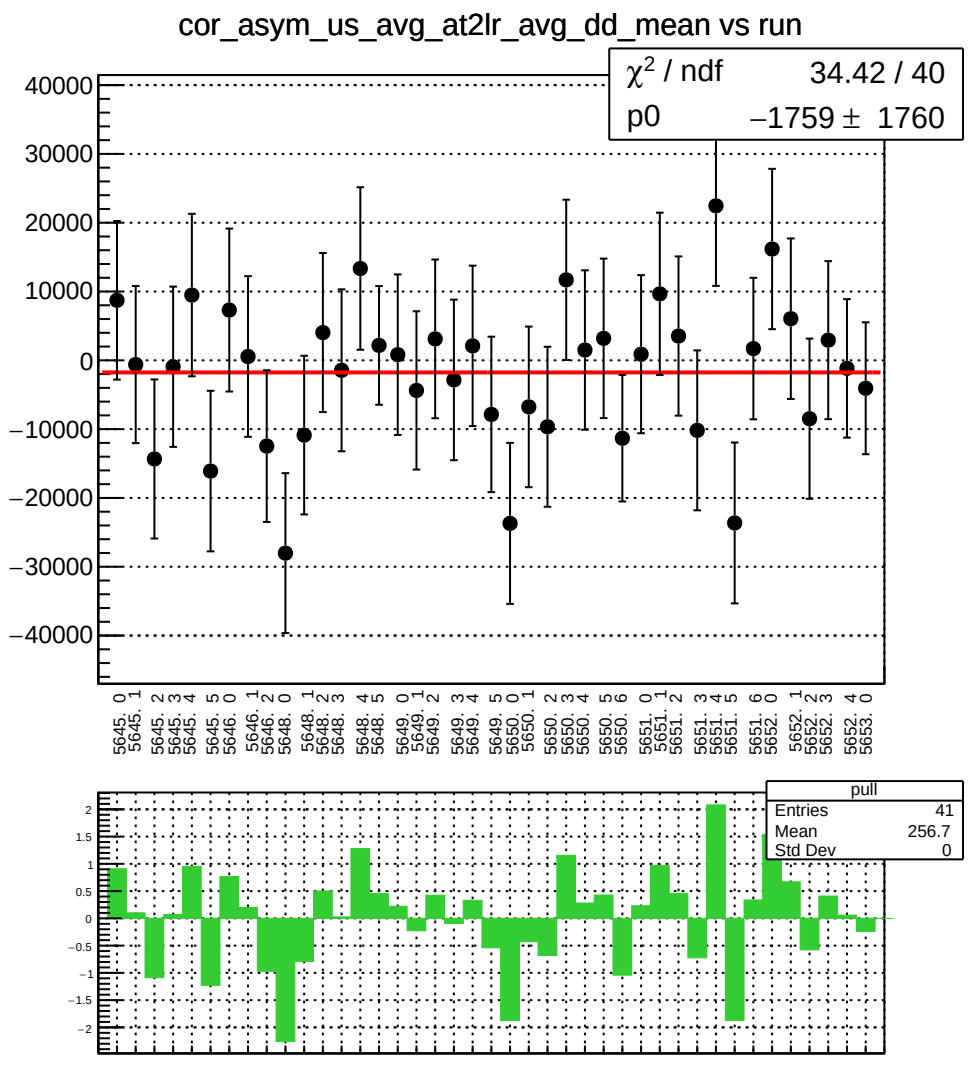

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 34.42 / 40
p0 −1759 ± 1760
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 256.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.005293
Std Dev 0.9163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

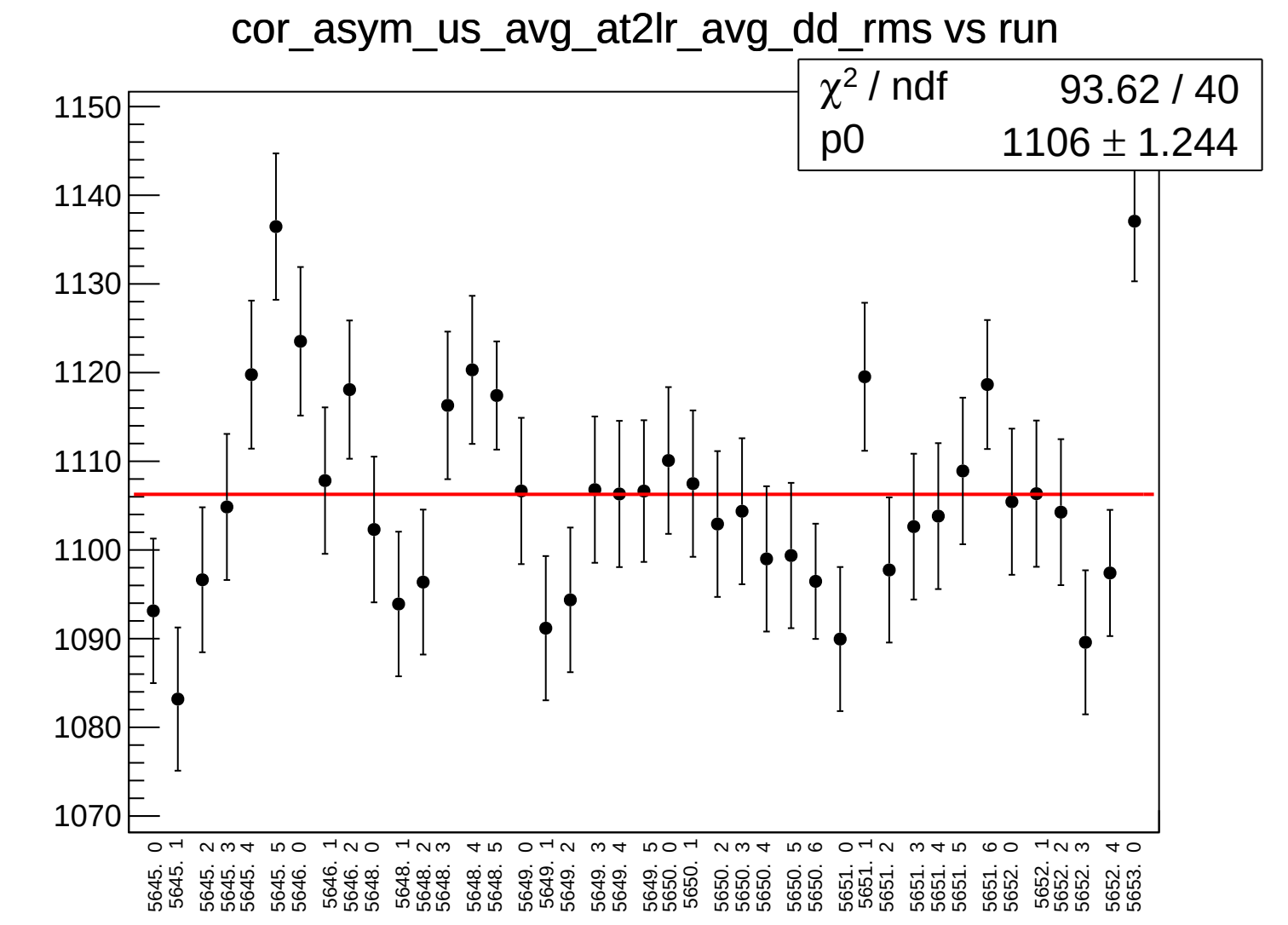

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 93.62 / 40
p0 1106 ± 1.244
1150
1140
1130
1120
1110
1100
1090
1080
1070
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

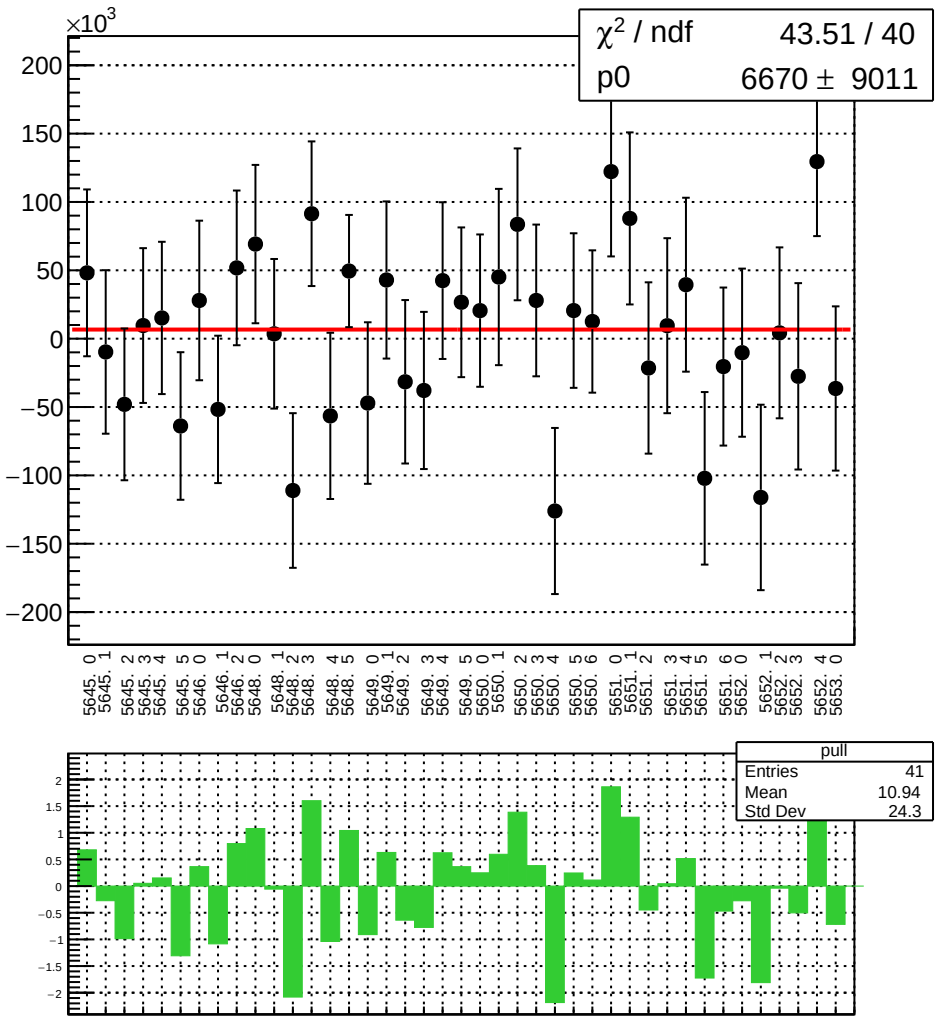

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 43.51 / 40
p0 6670 ± 9011
pull
Entries 41
Mean 10.94
Std Dev 24.3

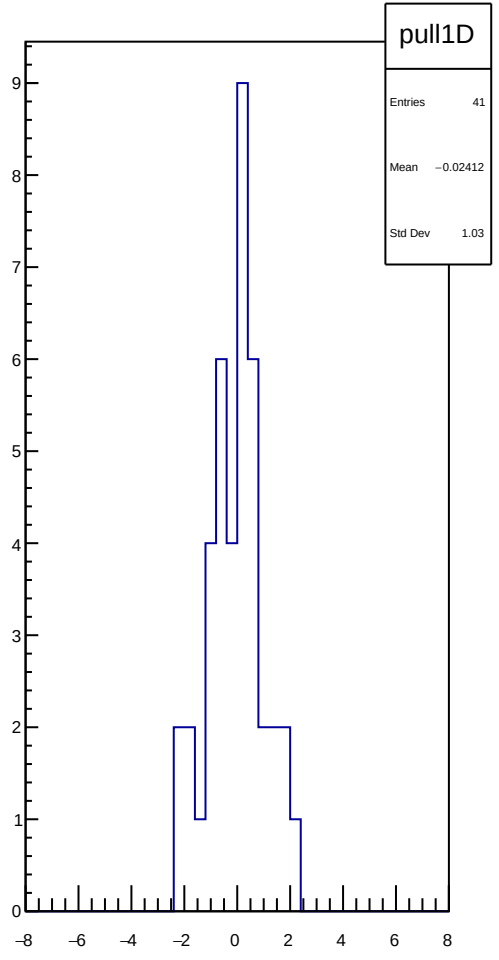

pull1D
Entries 41
Mean −0.02412
Std Dev 1.03

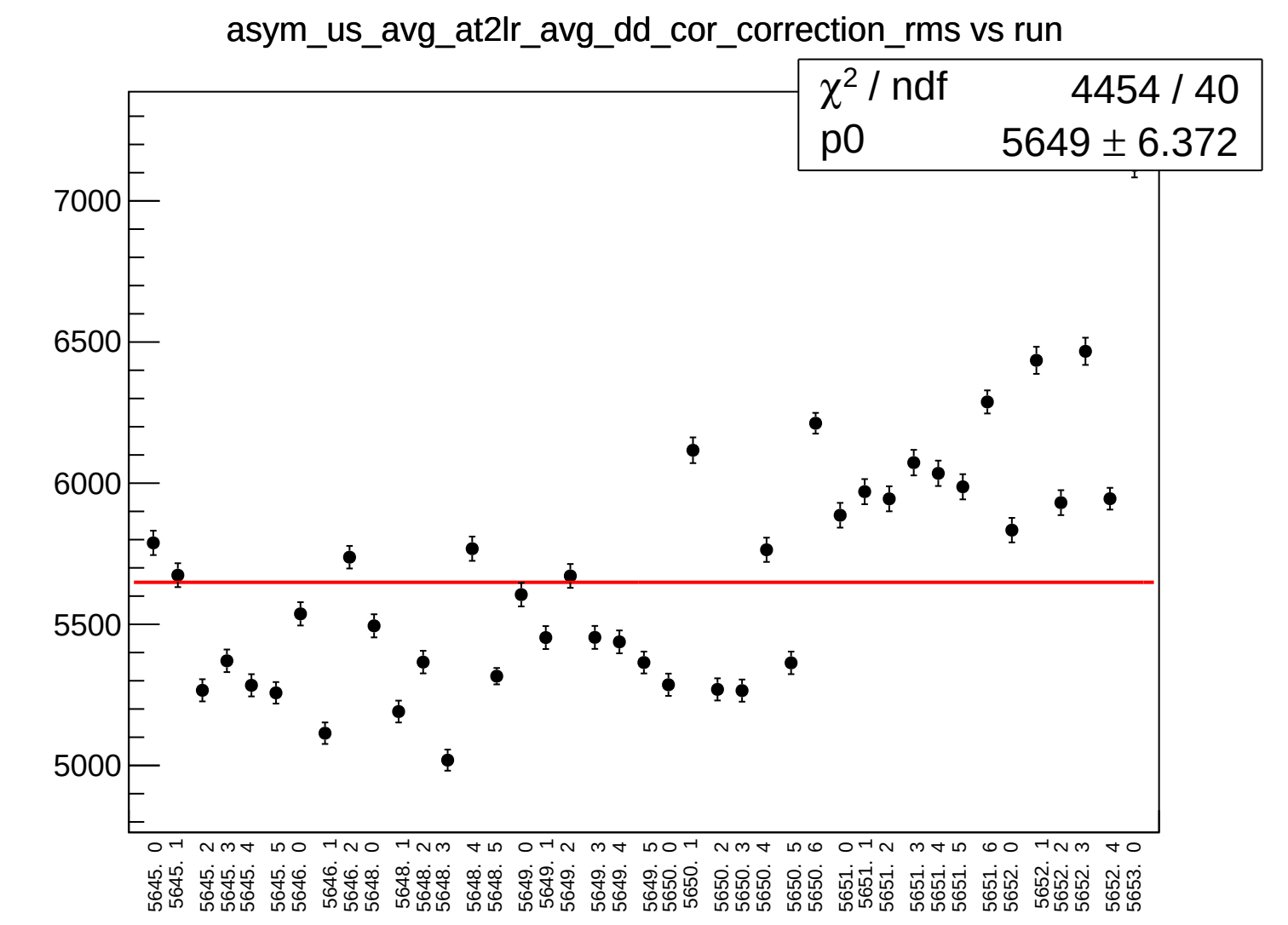

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4454 / 40
p0 5649 ± 6.372
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

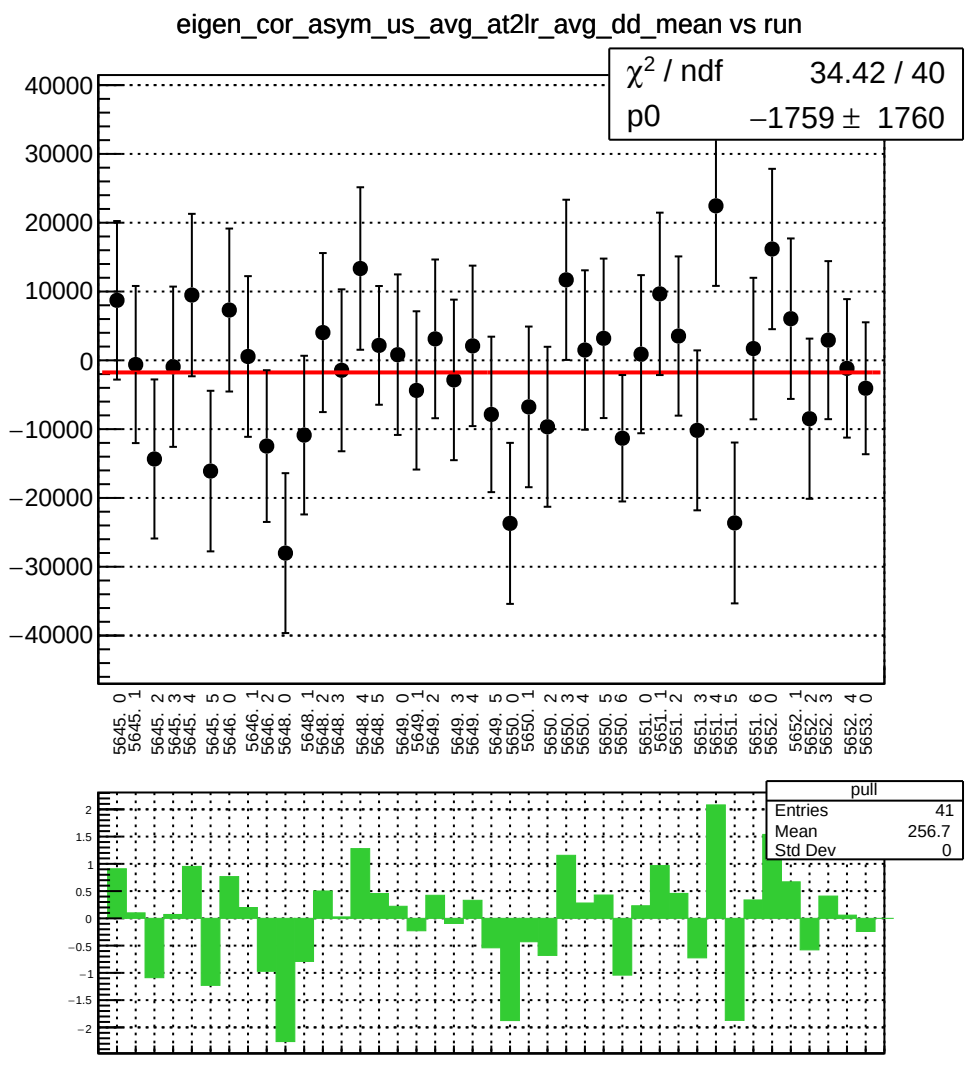

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 34.42 / 40
p0 −1759 ± 1760
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 256.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.005293
Std Dev 0.9163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

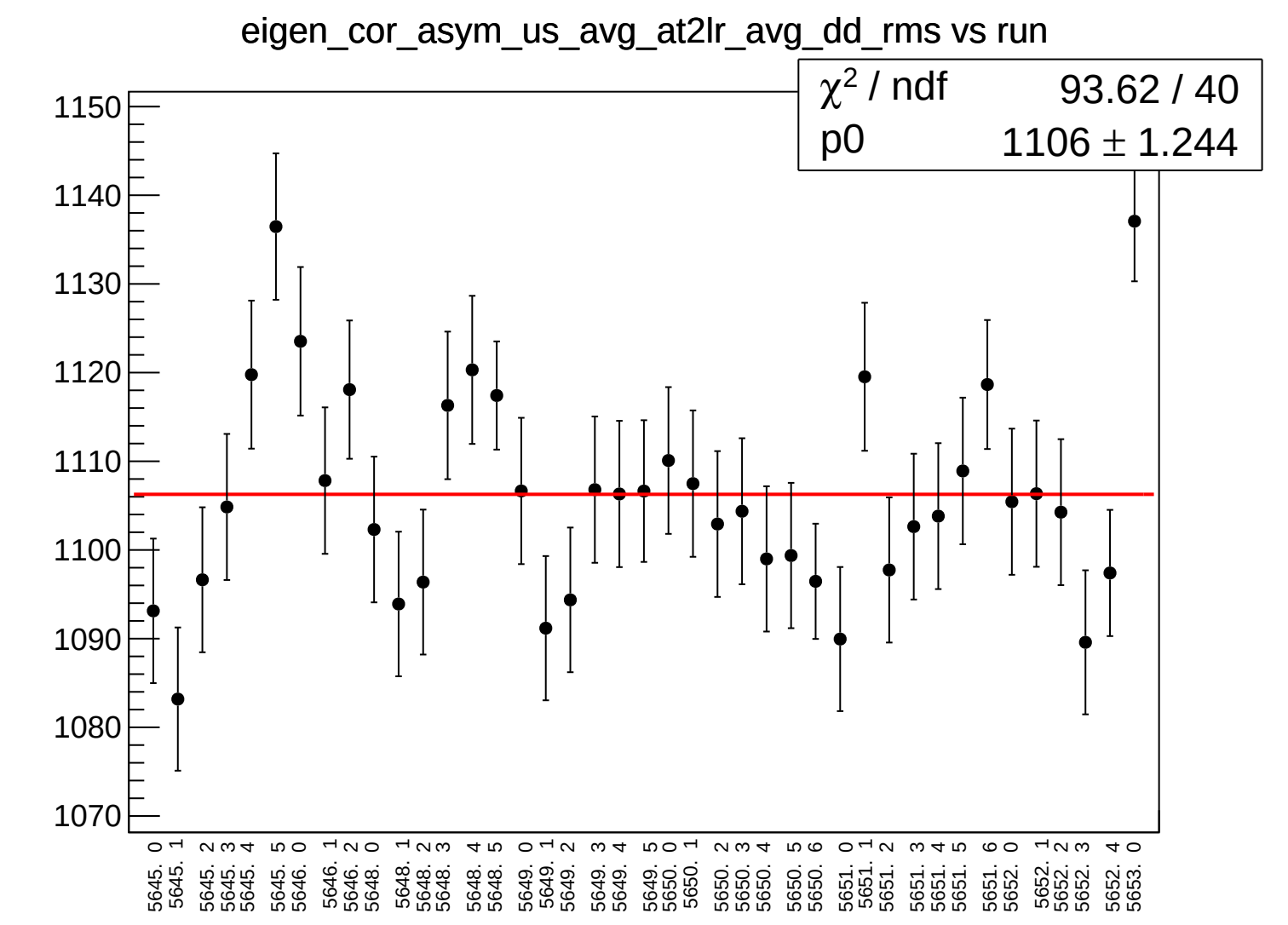

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 93.62 / 40
p0 1106 ± 1.244
1150
1140
1130
1120
1110
1100
1090
1080
1070
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

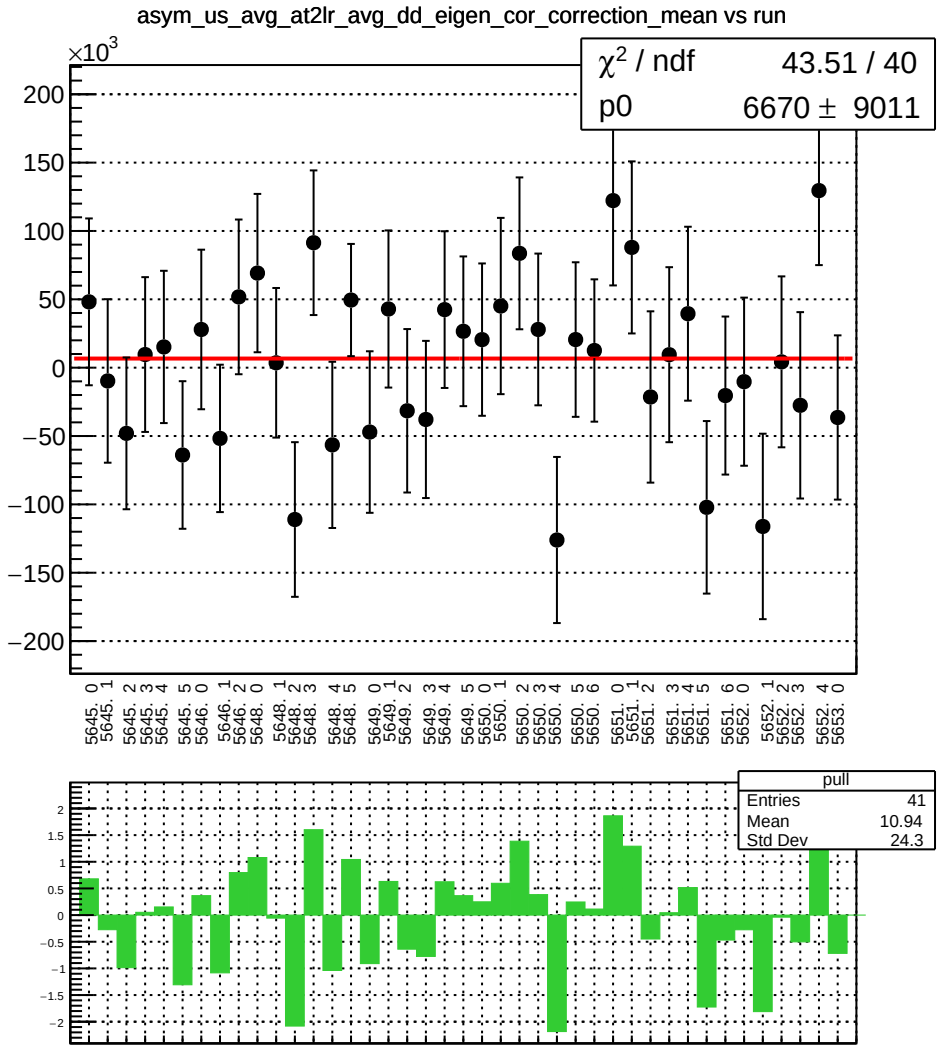

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 43.51 / 40
p0 6670 ± 9011
pull
Entries 41
Mean 10.94
Std Dev 24.3

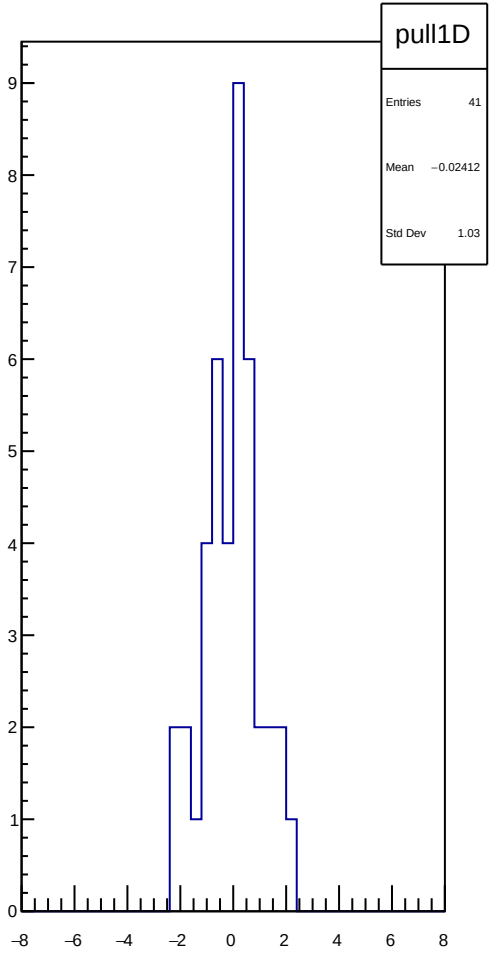

pull1D
Entries 41
Mean −0.02412
Std Dev 1.03

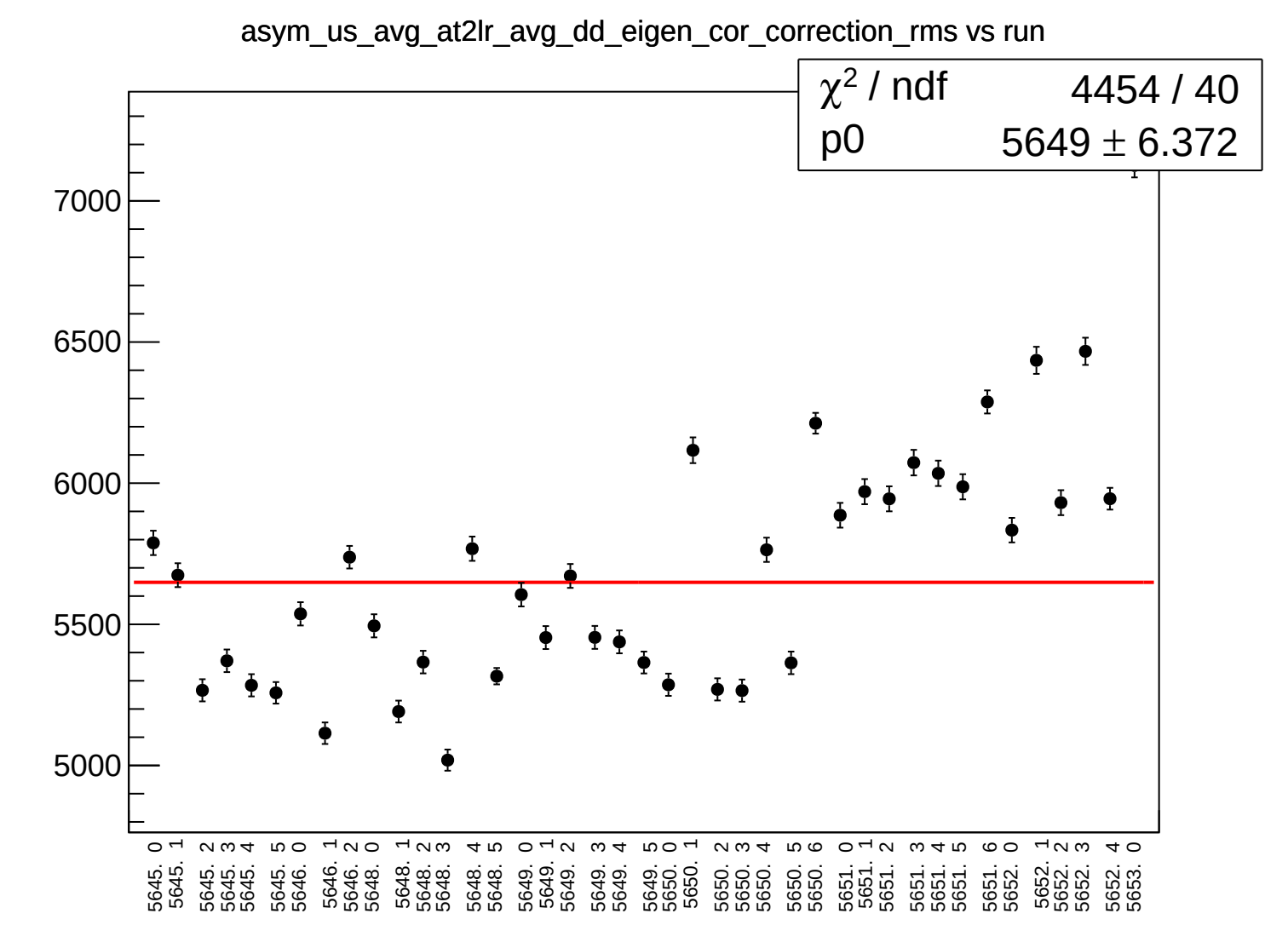

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4454 / 40
p0 5649 ± 6.372
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

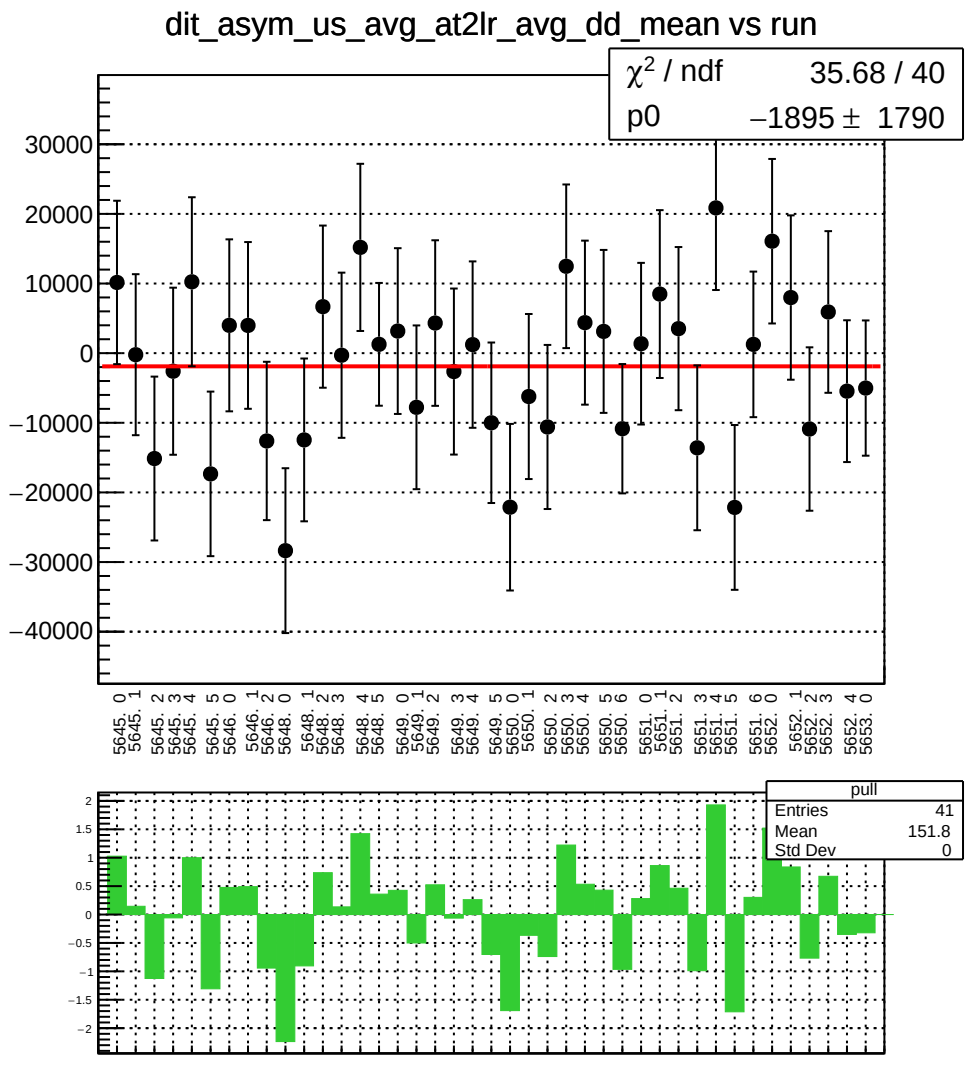

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 34.42 / 40
p0 −1759 ± 1760
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 256.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.005293
Std Dev 0.9163
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

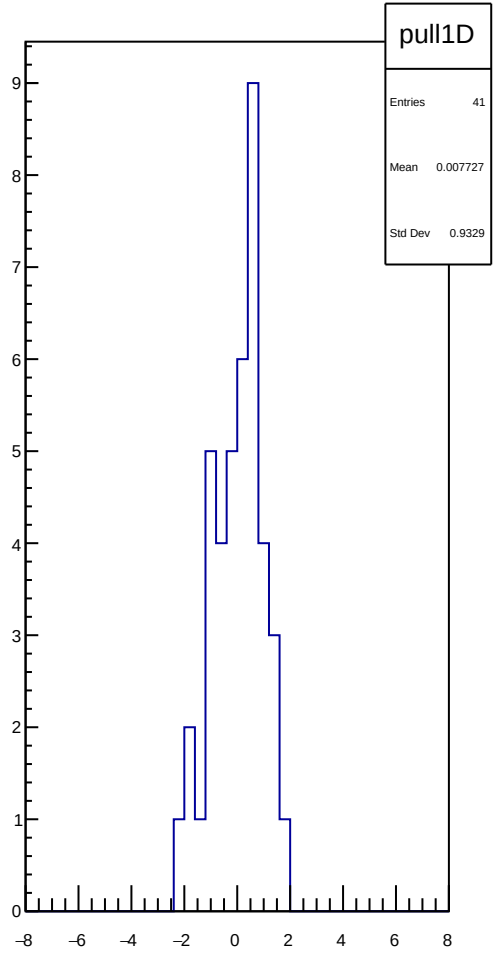

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 93.62 / 40
p0 1106 ± 1.244
1150
1140
1130
1120
1110
1100
1090
1080
1070
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

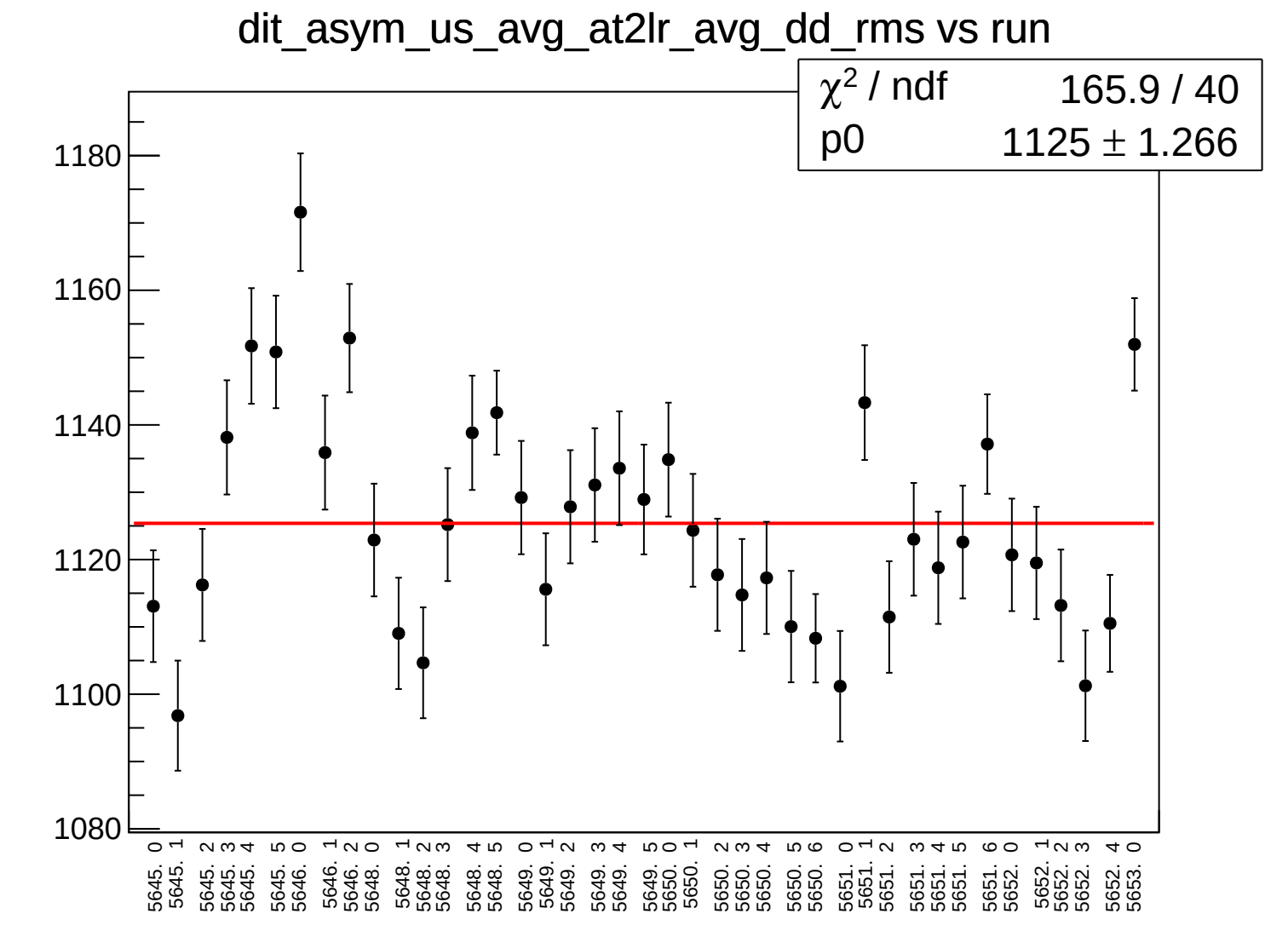

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 43.51 / 40
p0 6670 ± 9011
pull
Entries 41
Mean 10.94
Std Dev 24.3

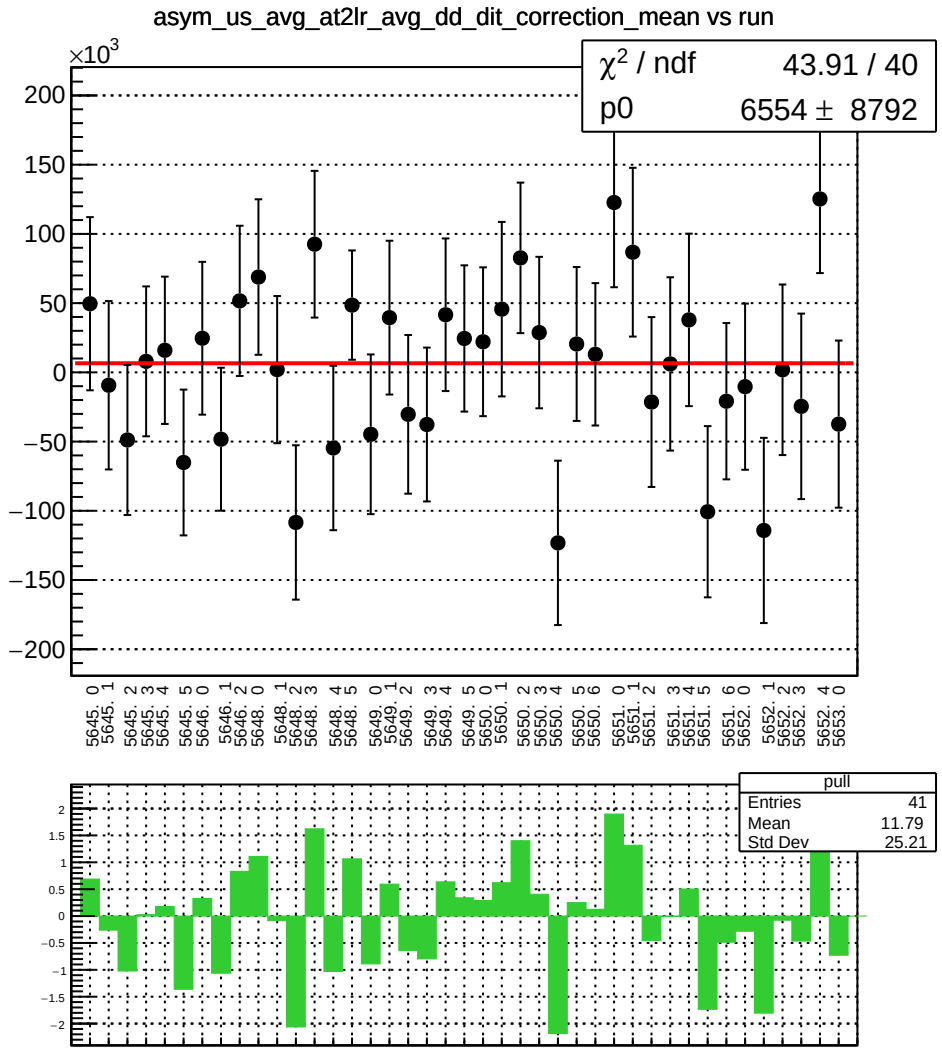

pull1D
Entries 41
Mean −0.02412
Std Dev 1.03

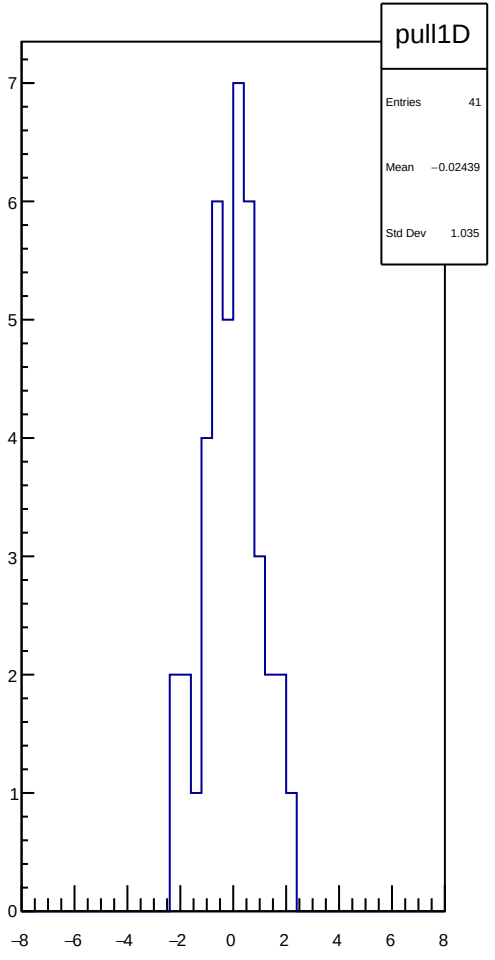

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4454 / 40
p0 5649 ± 6.372
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

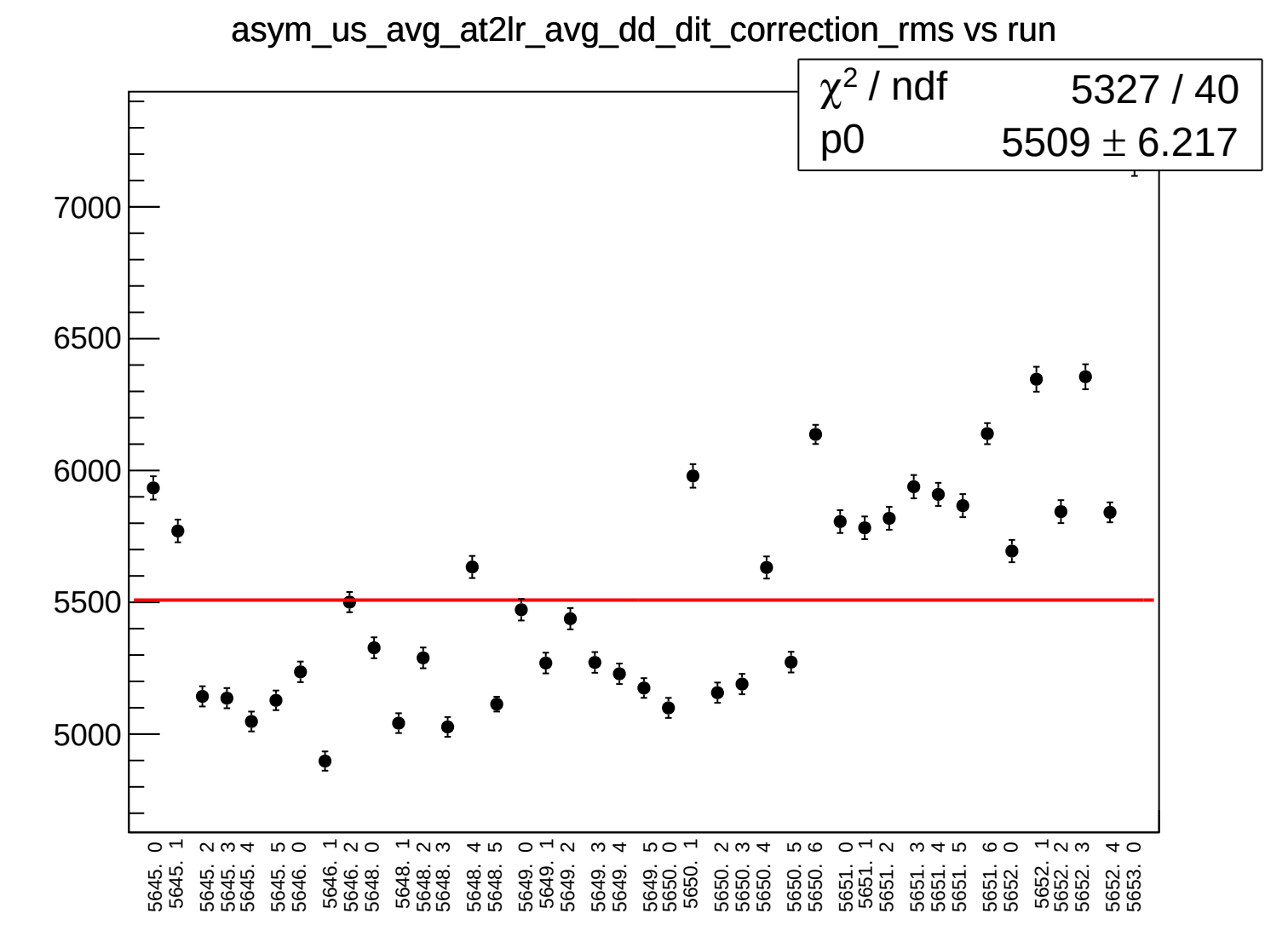

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 35.68 / 40
p0 −1895 ± 1790
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

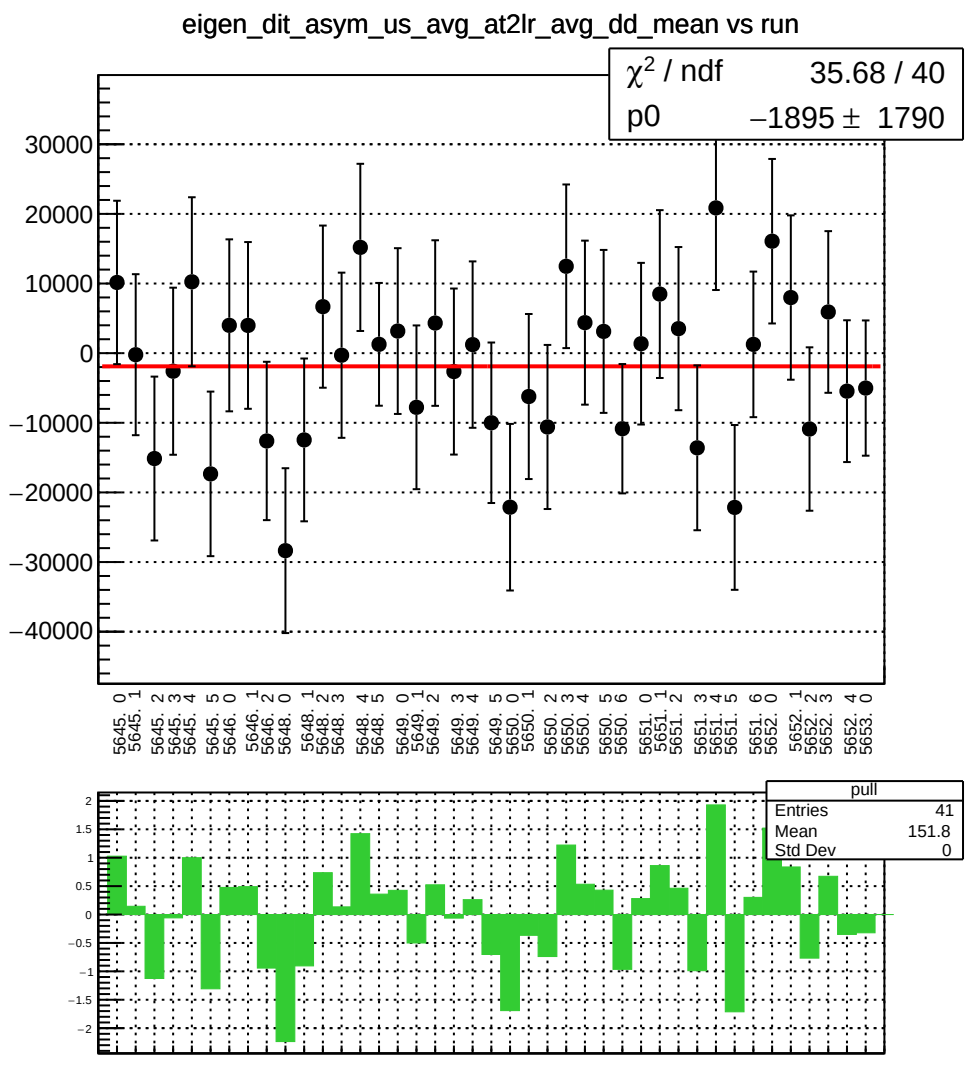

pull1D
Entries 41
Mean 0.007727
Std Dev 0.9329
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

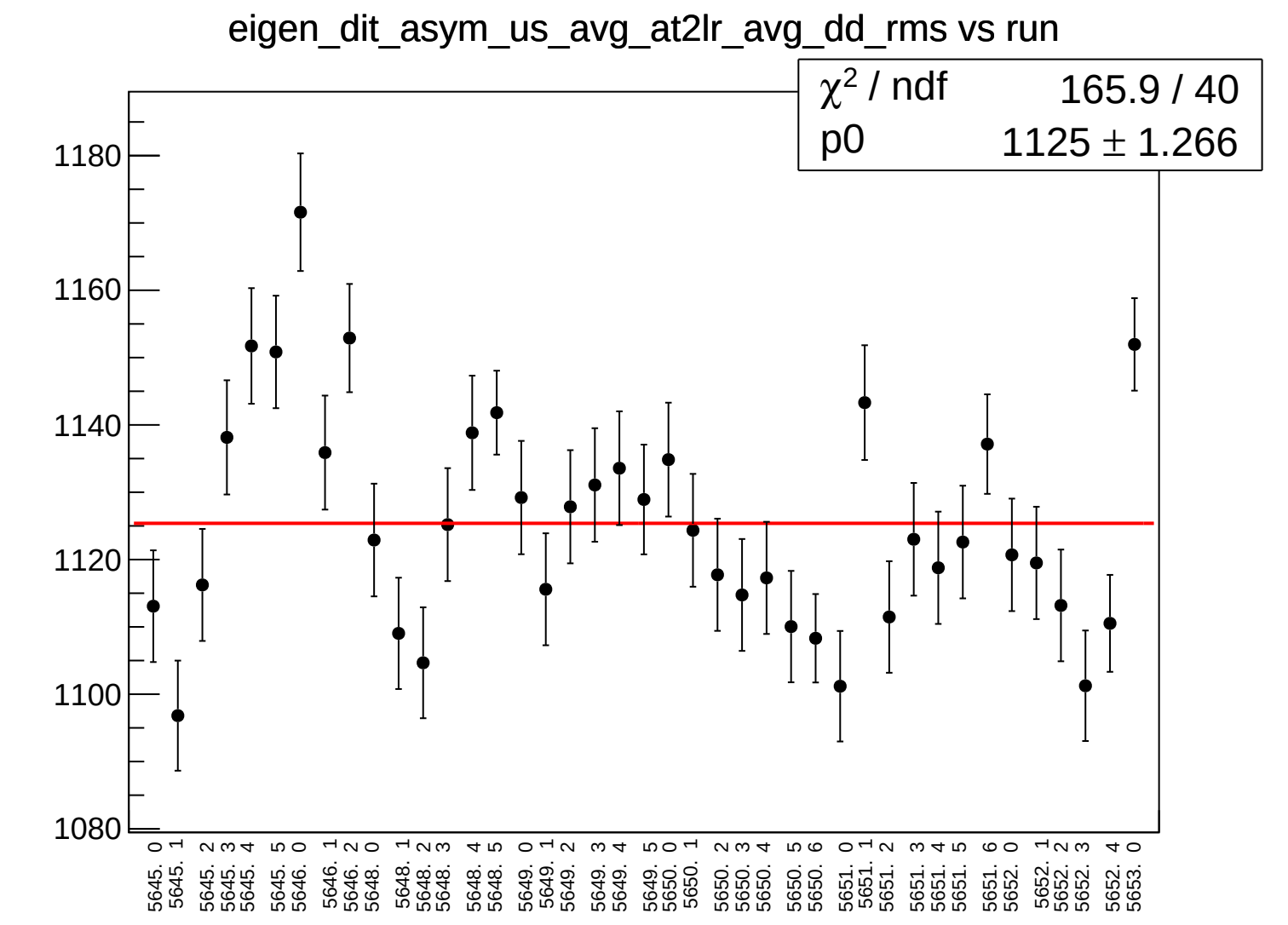

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 165.9 / 40
p0 1125 ± 1.266
1180
1160
1140
1120
1100
1080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

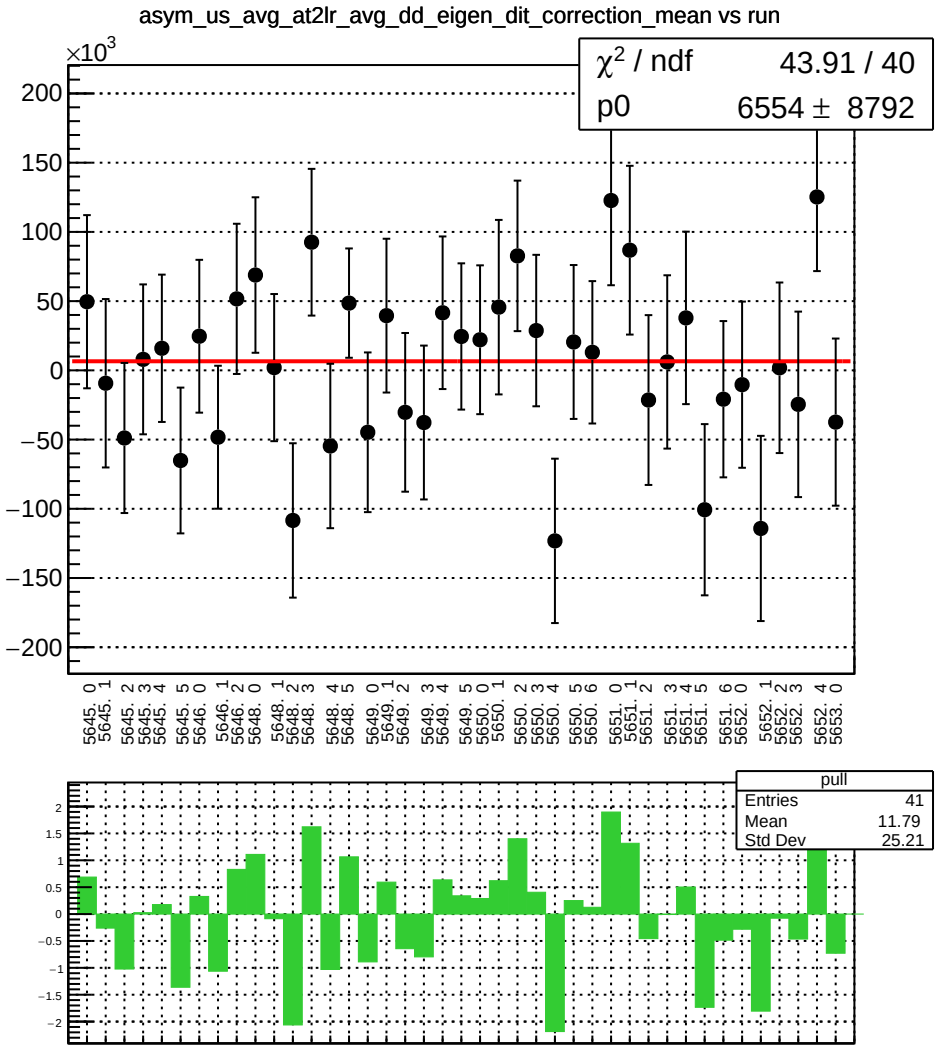

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 43.91 / 40
p0 6554 ± 8792
pull
Entries 41
Mean 11.79
Std Dev 25.21

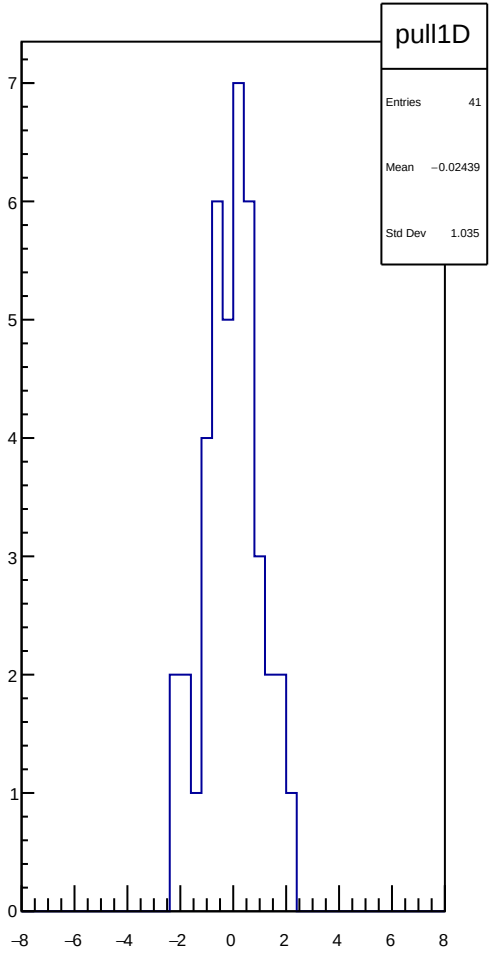

pull1D
Entries 41
Mean −0.02439
Std Dev 1.035

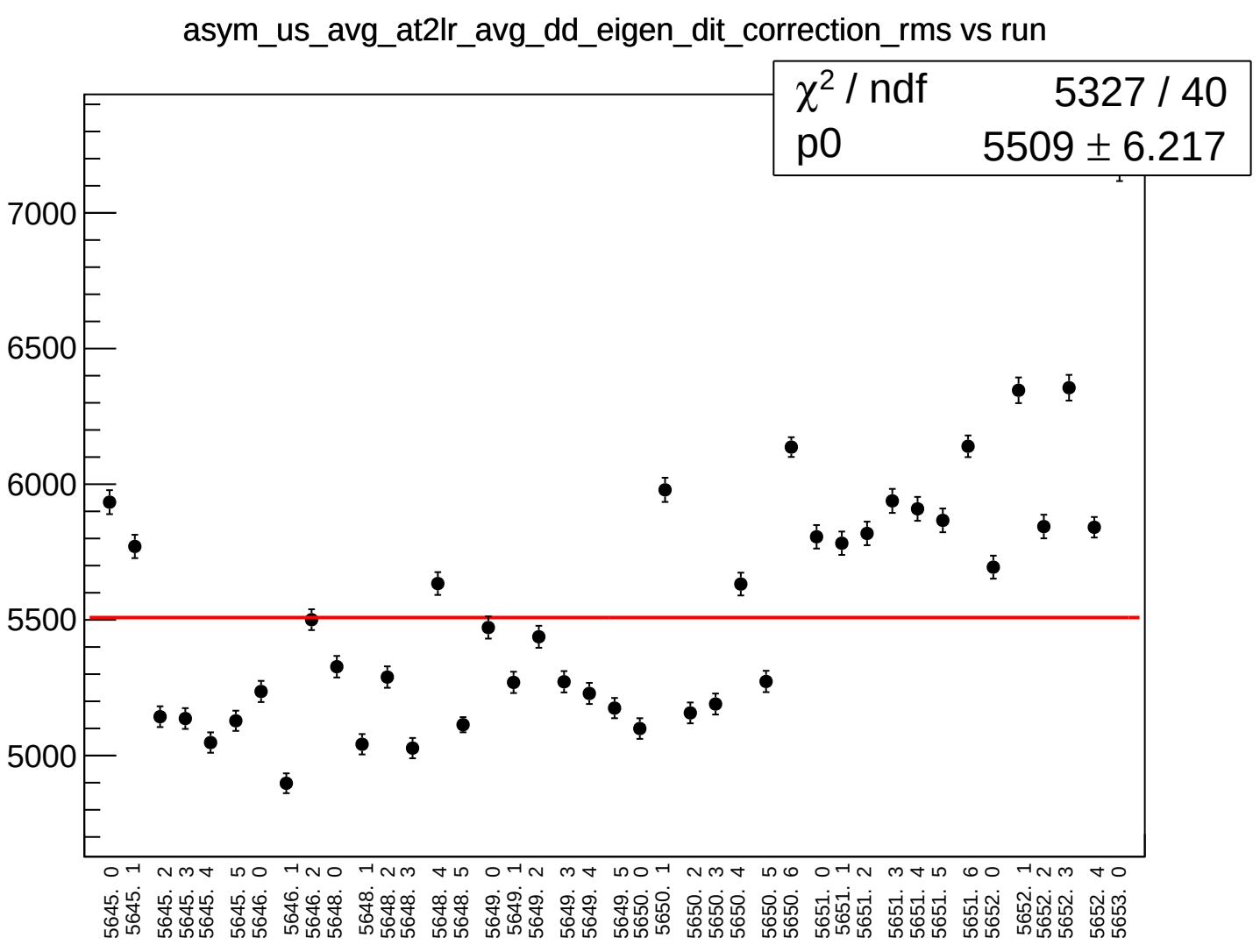

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5327 / 40
p0 5509 ± 6.217
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

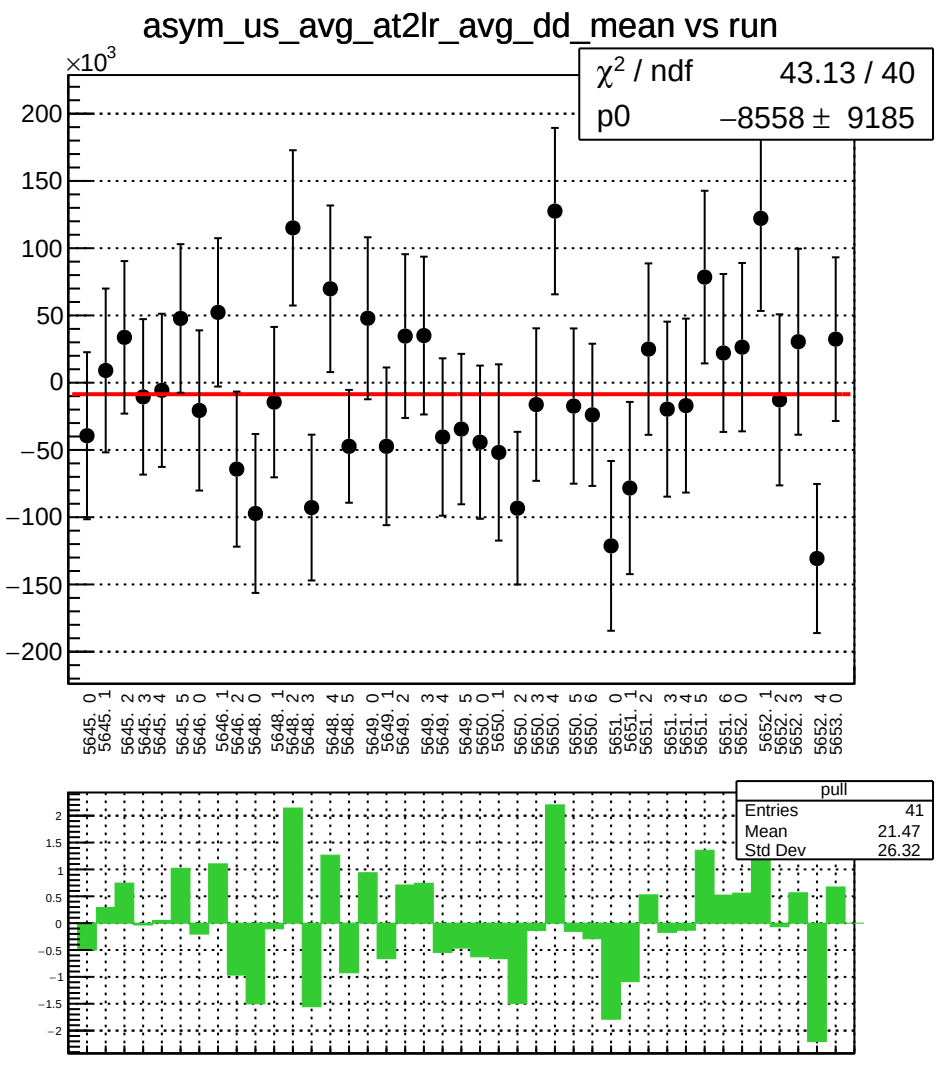

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 35.68 / 40
p0 −1895 ± 1790
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.007727
Std Dev 0.9329
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

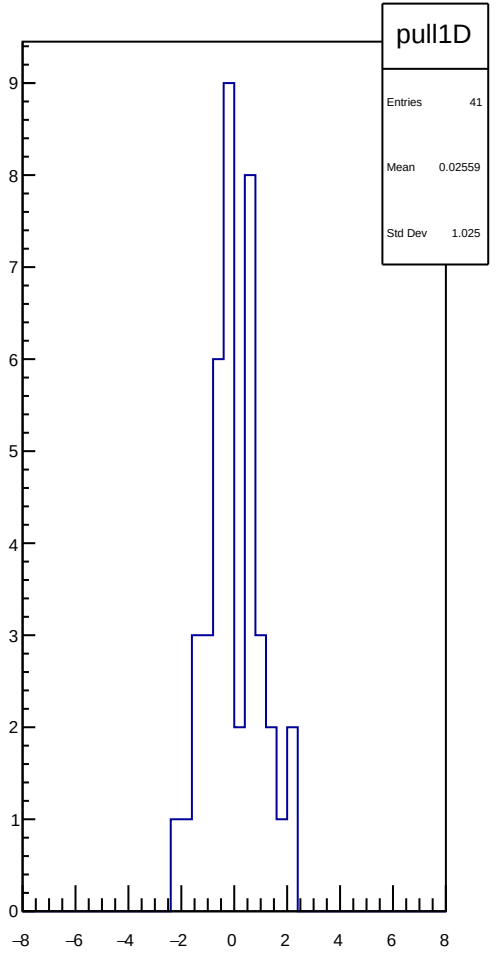

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 165.9 / 40
p0 1125 ± 1.266
1180
1160
1140
1120
1100
1080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

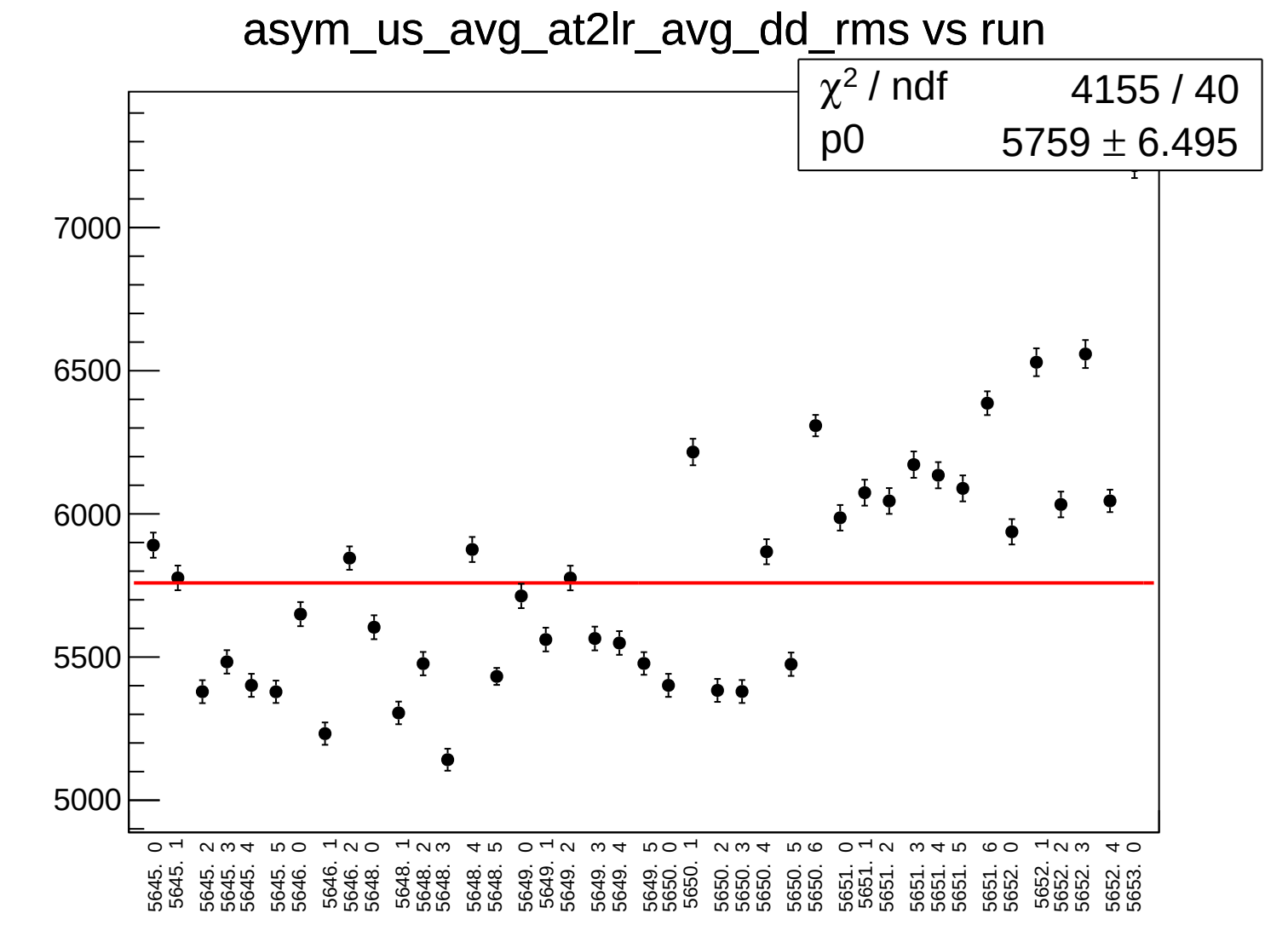

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 43.91 / 40
p0 6554 ± 8792
200
150
100
50
0
−50
−100
−150
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 11.79
Std Dev 25.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

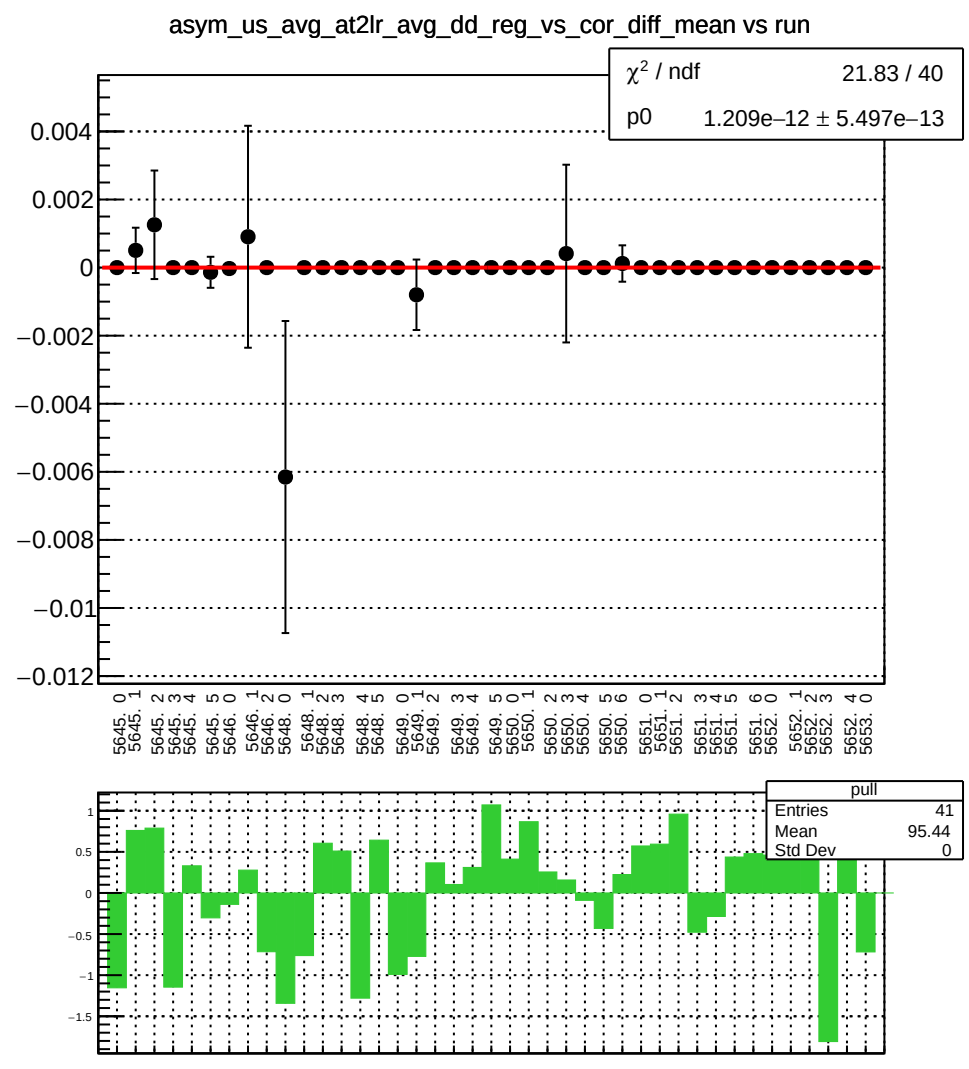

pull1D
Entries 41
Mean −0.02439
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

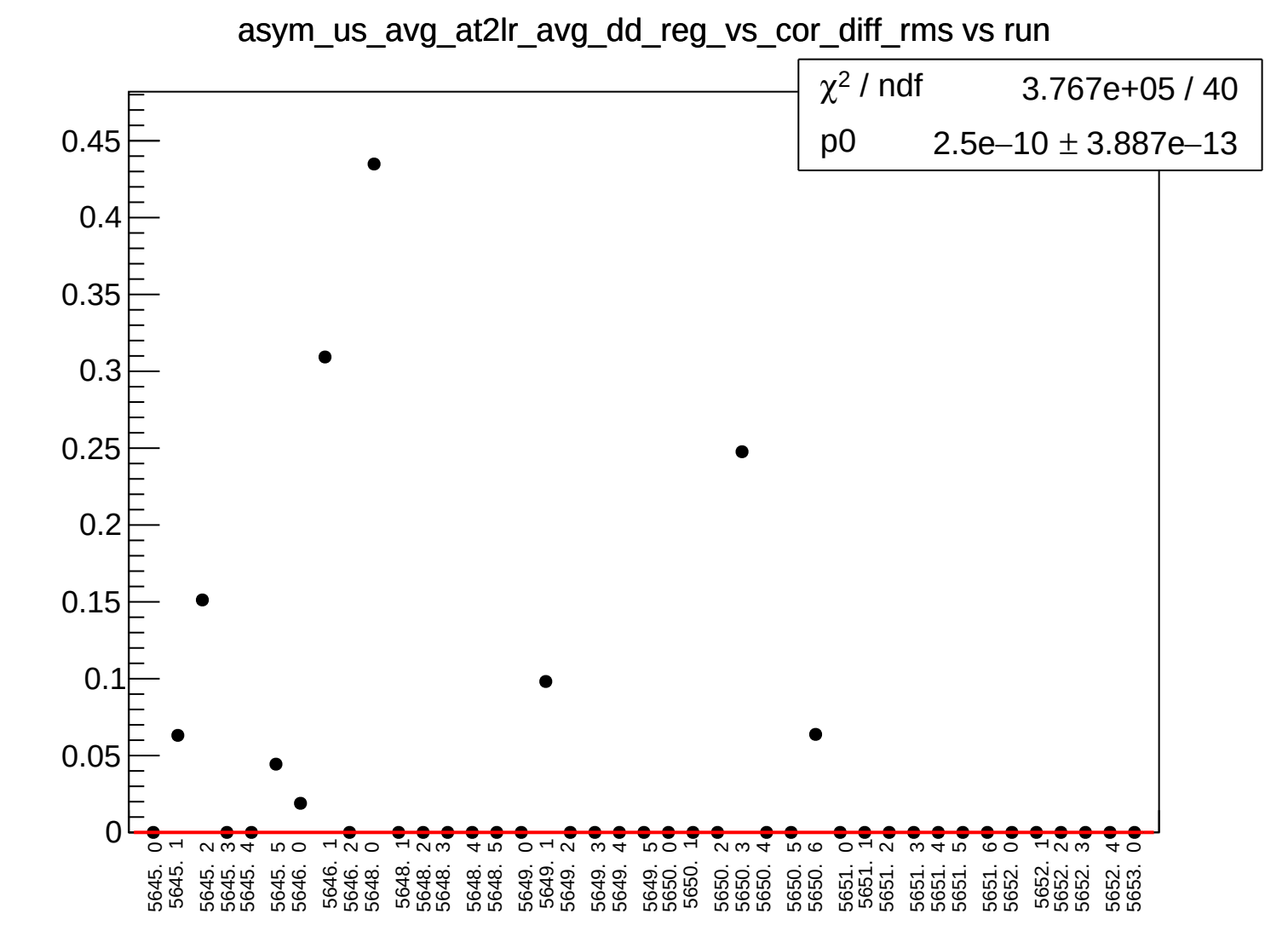

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5327 / 40
p0 5509 ± 6.217
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

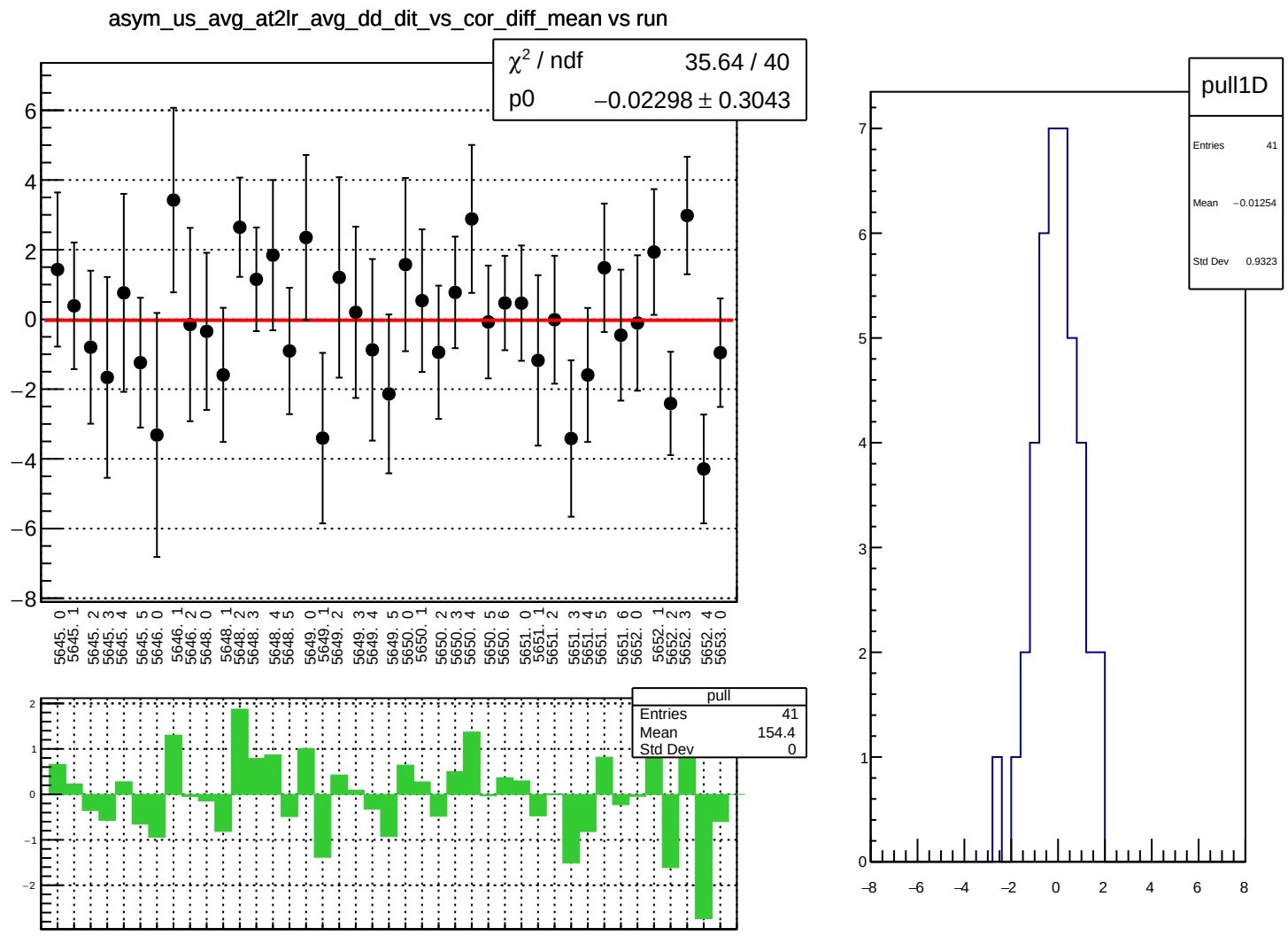

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 43.13 / 40
p0 −8558 ± 9185
pull
Entries 41
Mean 21.47
Std Dev 26.32

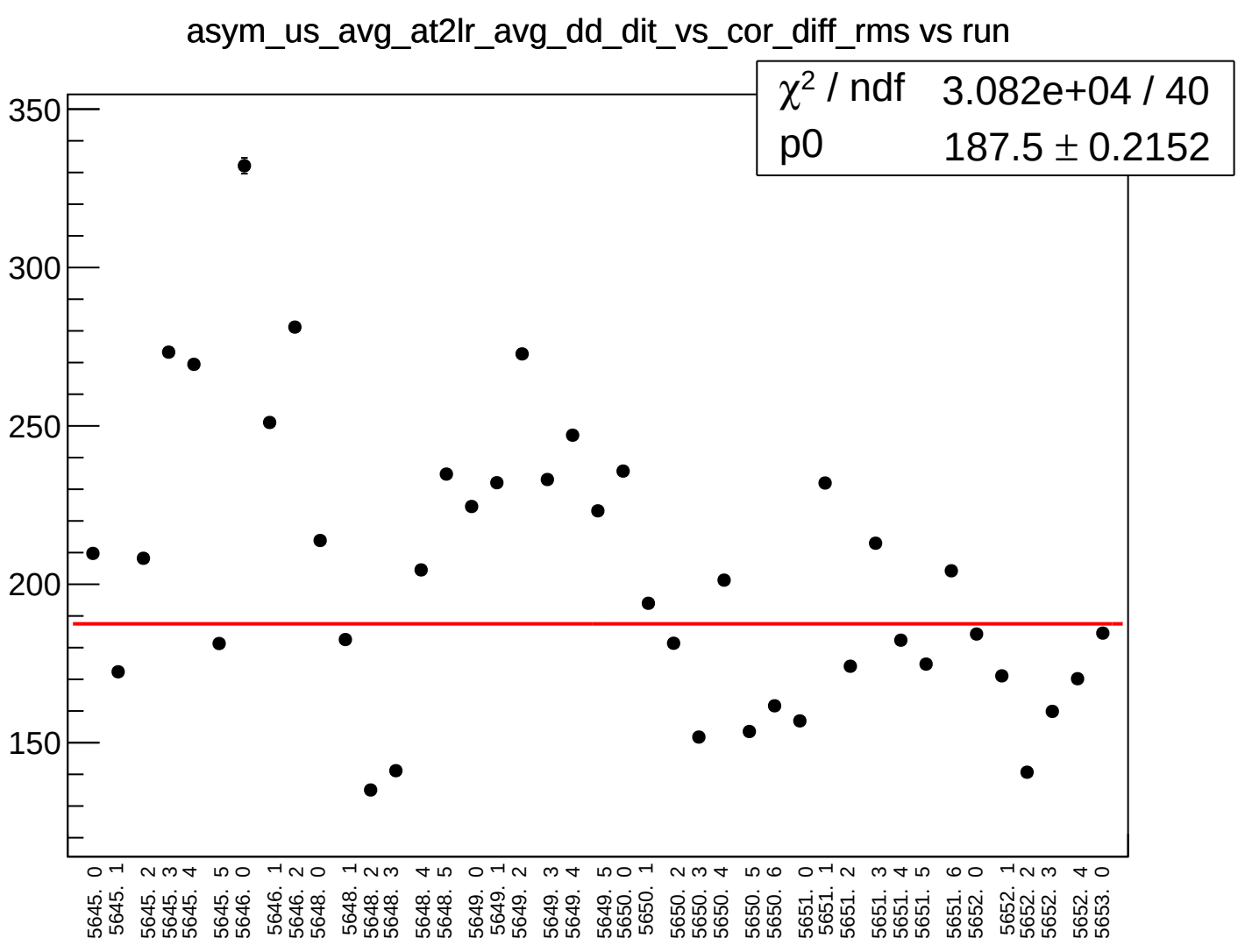

pull1D
Entries 41
Mean 0.02559
Std Dev 1.025

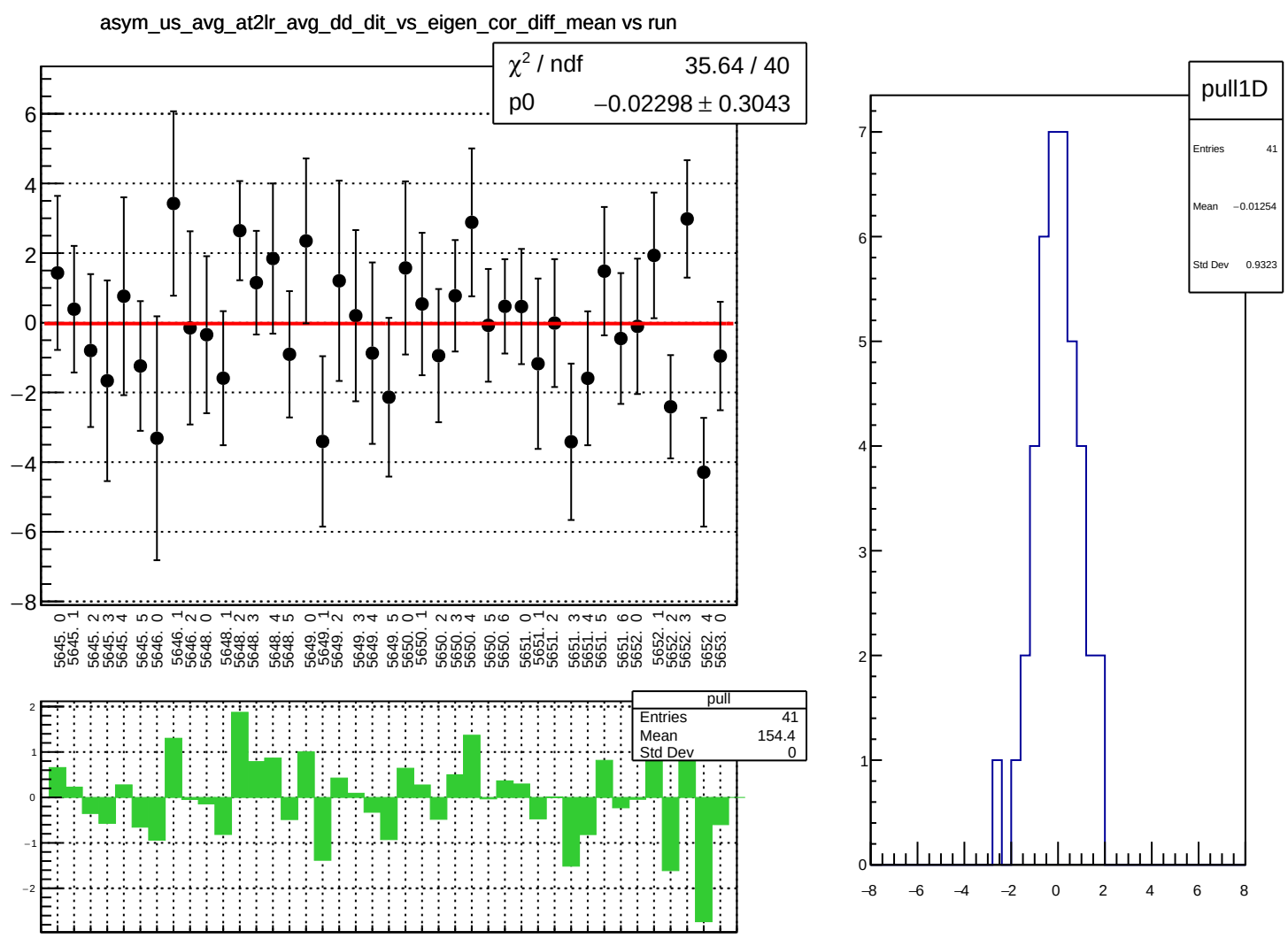

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4155 / 40
p0 5759 ± 6.495
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

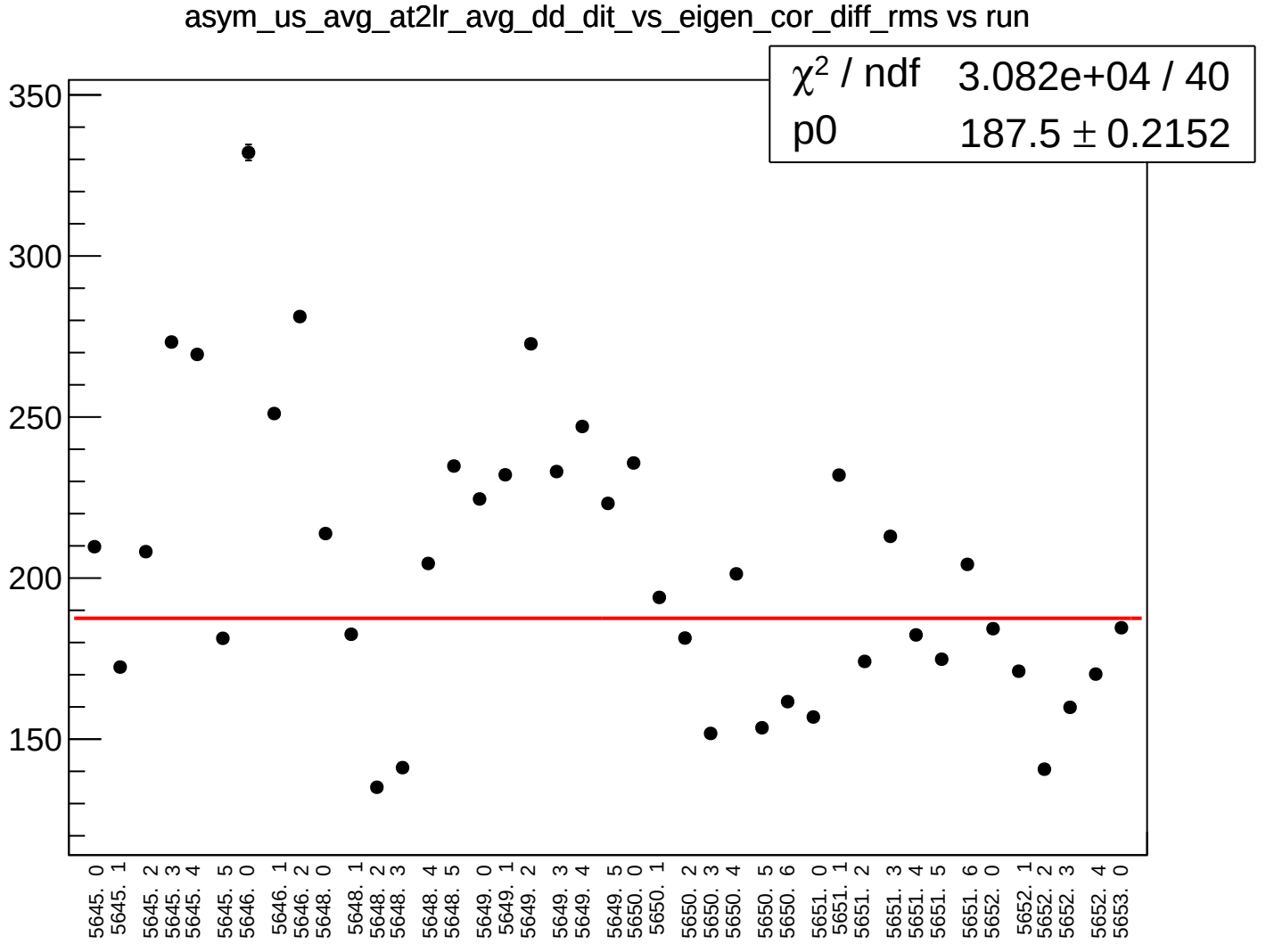

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.83 / 40
p0 1.209e−12 ± 5.497e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 95.44
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02183
Std Dev 0.7293
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

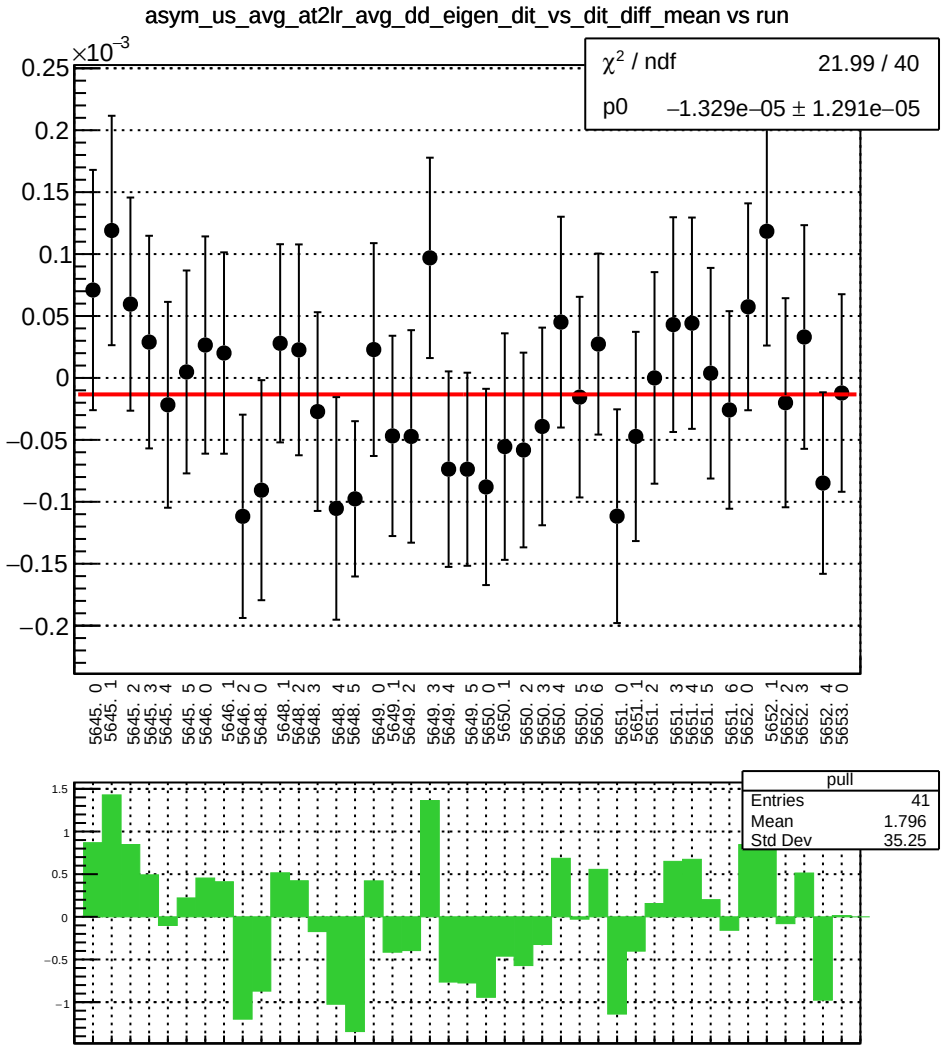

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.767e+05 / 40
p0 2.5e−10 ± 3.887e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

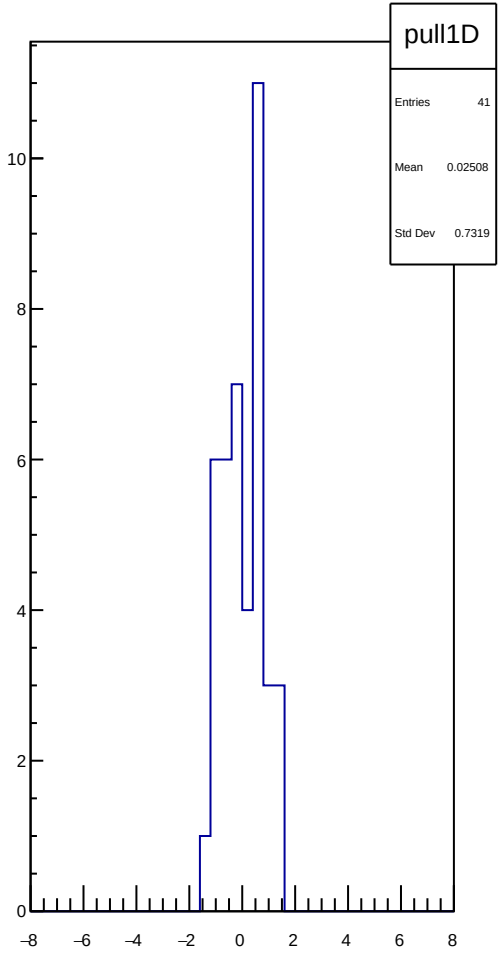

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 35.64 / 40
p0 −0.02298 ± 0.3043
pull
Entries 41
Mean 154.4
Std Dev 0
pull1D
Entries 41
Mean −0.01254
Std Dev 0.9323

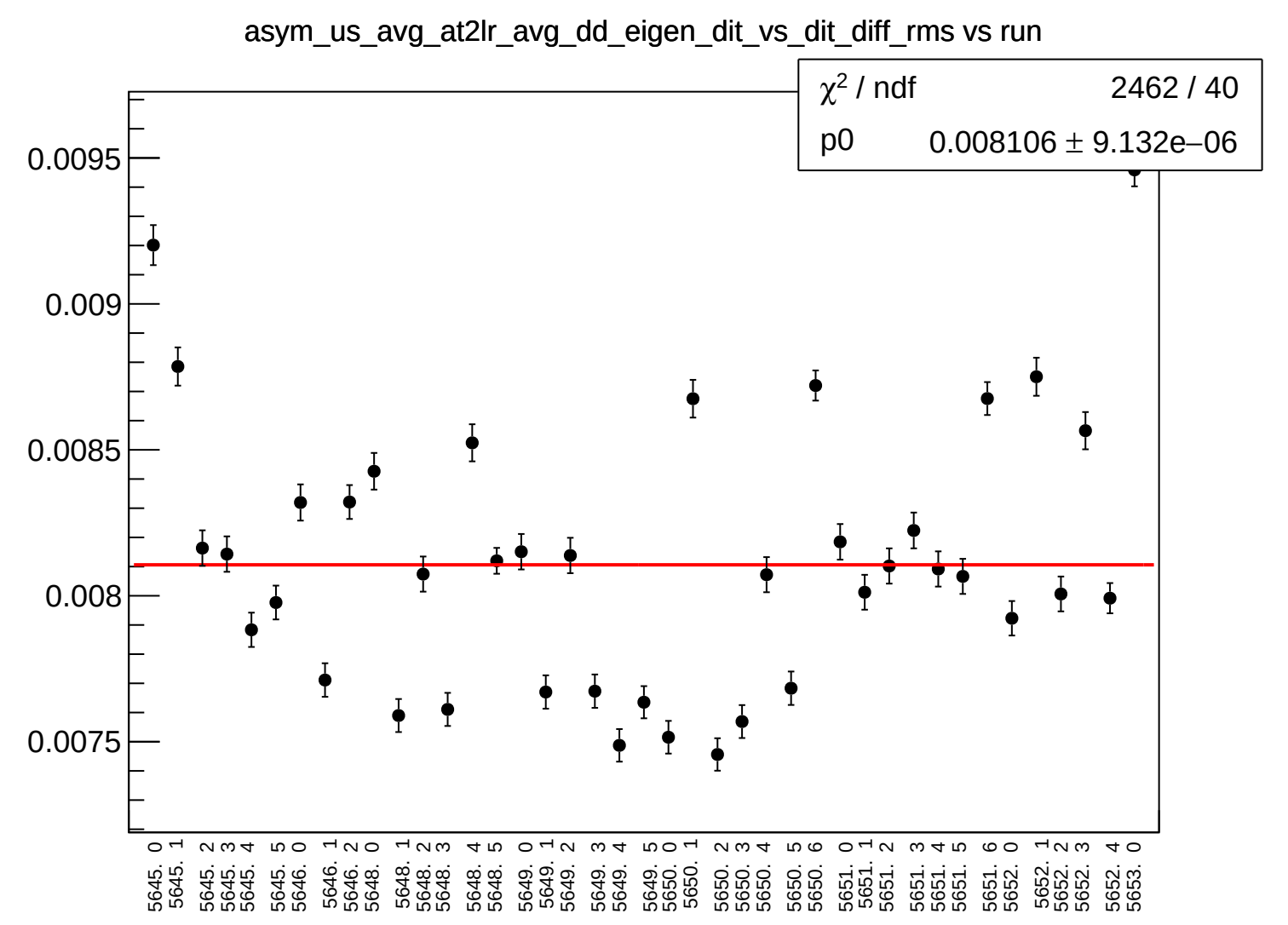

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.082e+04 / 40
p0 187.5 ± 0.2152
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

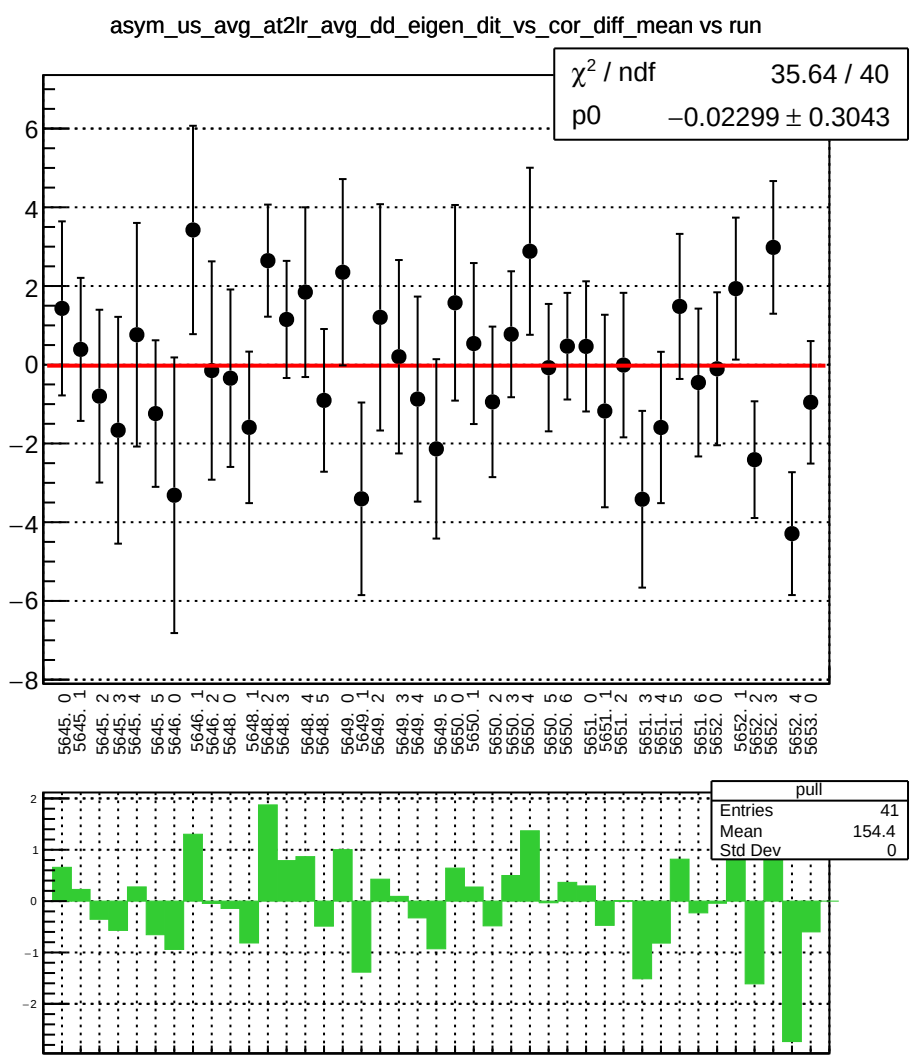

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.64 / 40
p0 −0.02298 ± 0.3043
pull
Entries 41
Mean 154.4
Std Dev 0
pull1D
Entries 41
Mean −0.01254
Std Dev 0.9323

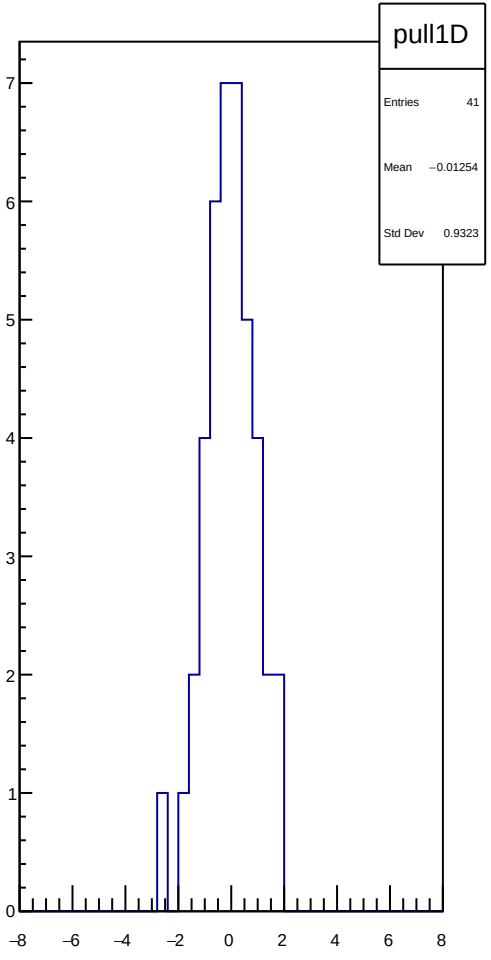

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.082e+04 / 40
p0 187.5 ± 0.2152
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

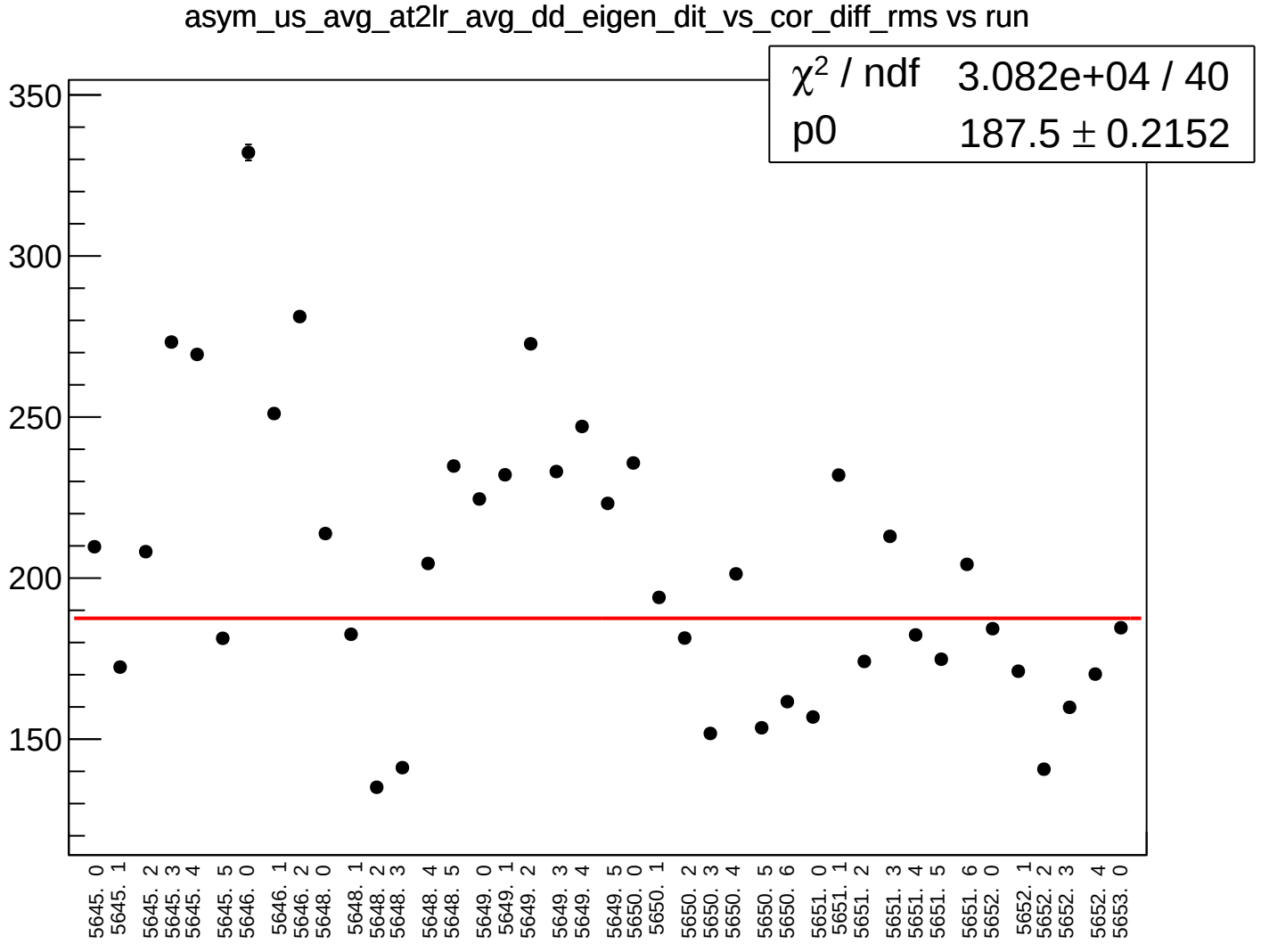

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.99 / 40
p0 −1.329e−05 ± 1.291e−05
pull
Entries 41
Mean 1.796
Std Dev 35.25

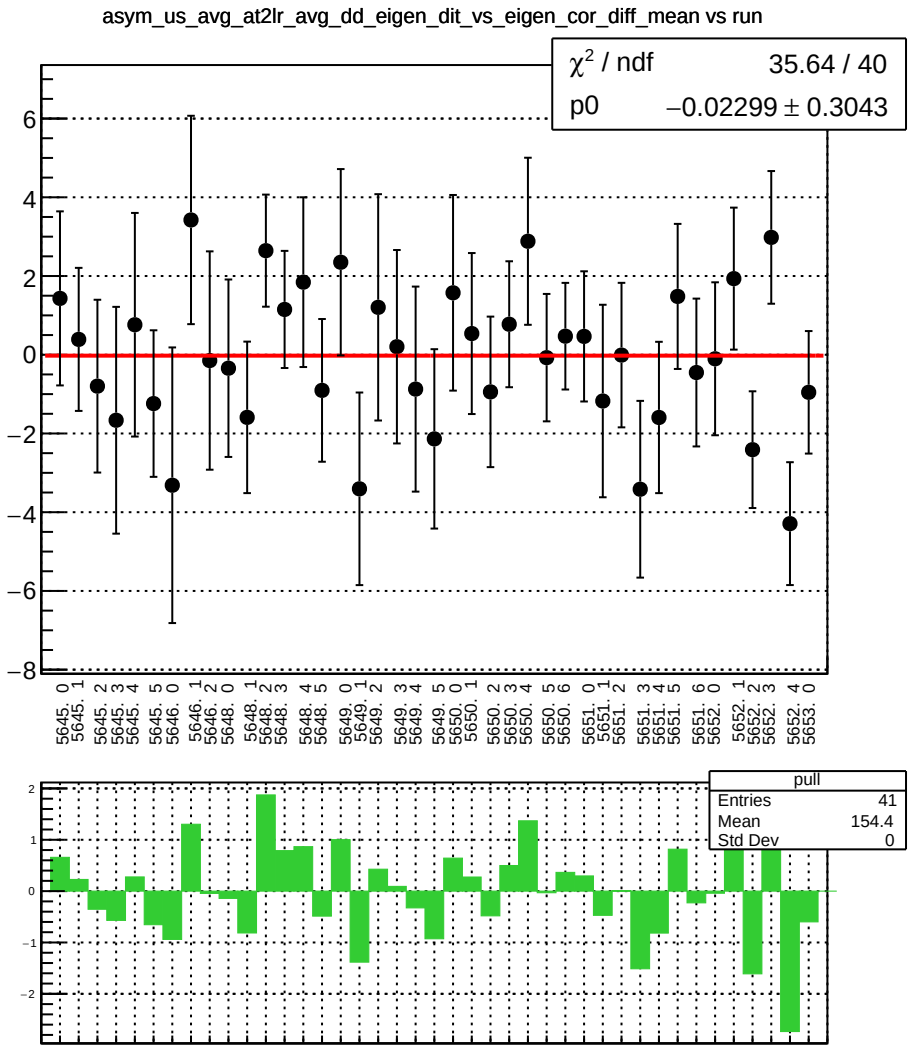

pull1D
Entries 41
Mean 0.02508
Std Dev 0.7319

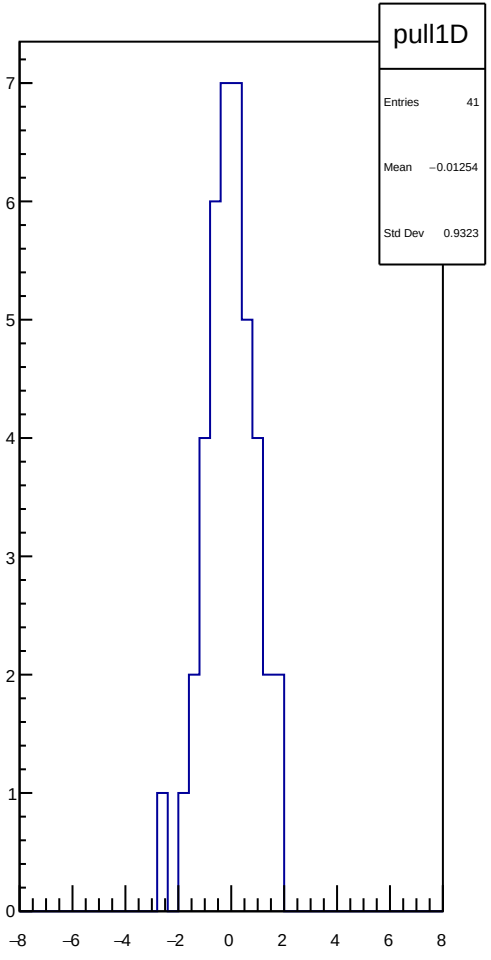

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2462 / 40
p0 0.008106 ± 9.132e−06
0.0095
0.009
0.0085
0.008
0.0075
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

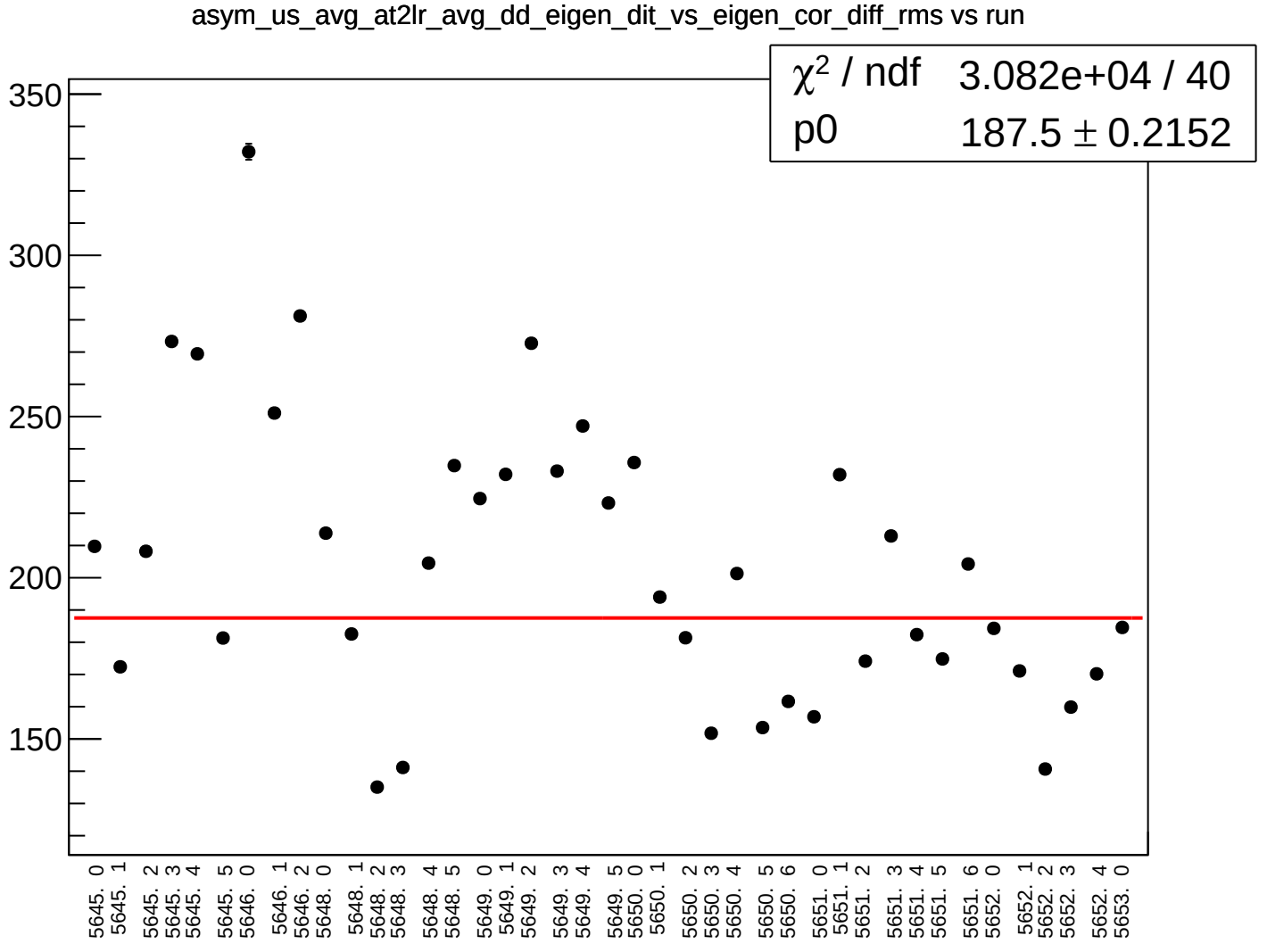

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.64 / 40
p0 −0.02299 ± 0.3043
pull
Entries 41
Mean 154.4
Std Dev 0

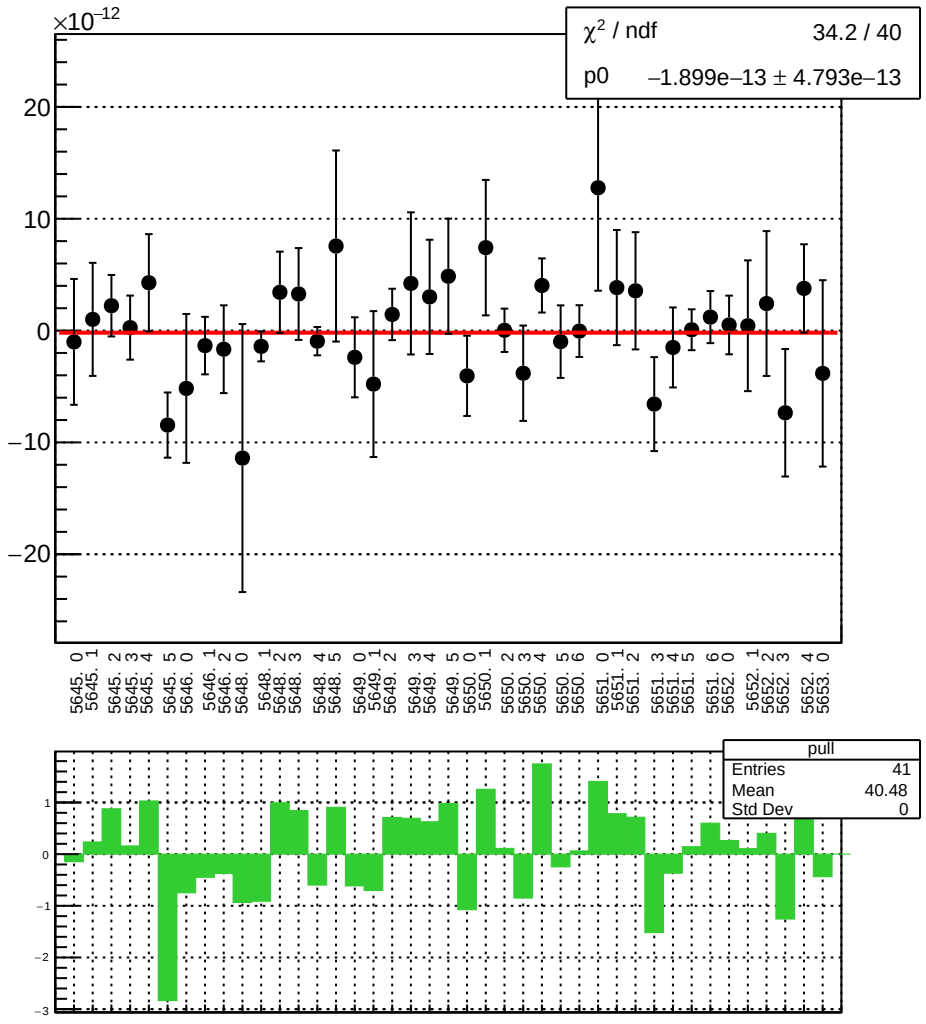

pull1D
Entries 41
Mean −0.01254
Std Dev 0.9323

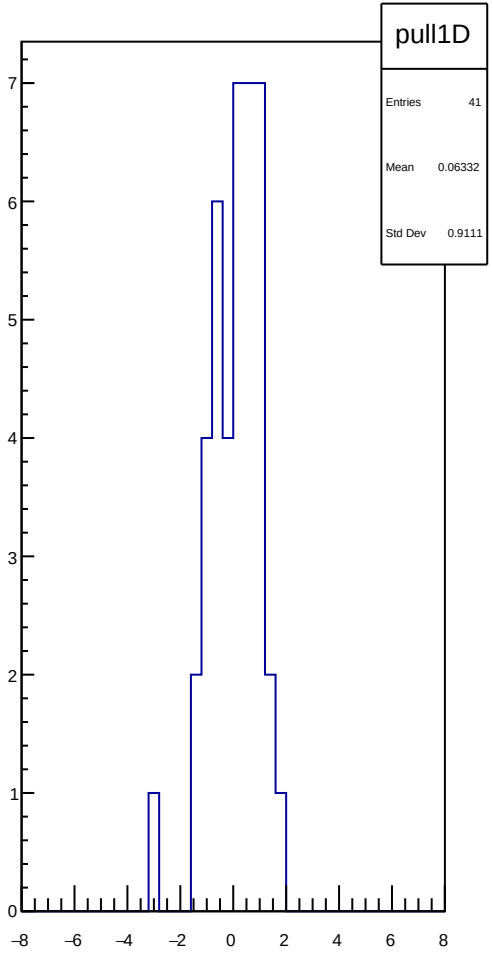

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.082e+04 / 40
p0 187.5 ± 0.2152
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

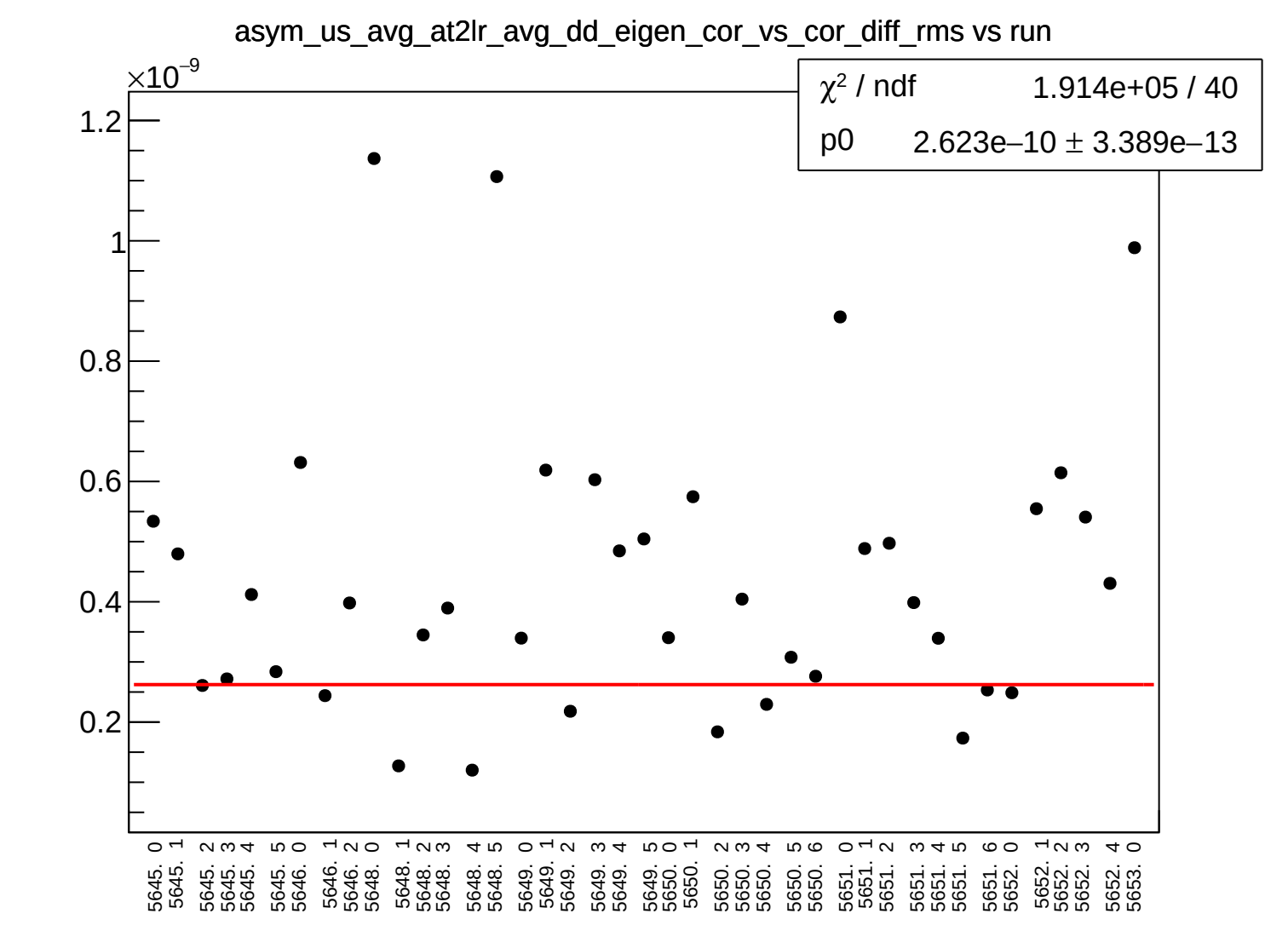

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.64 / 40
p0 −0.02299 ± 0.3043
pull
Entries 41
Mean 154.4
Std Dev 0

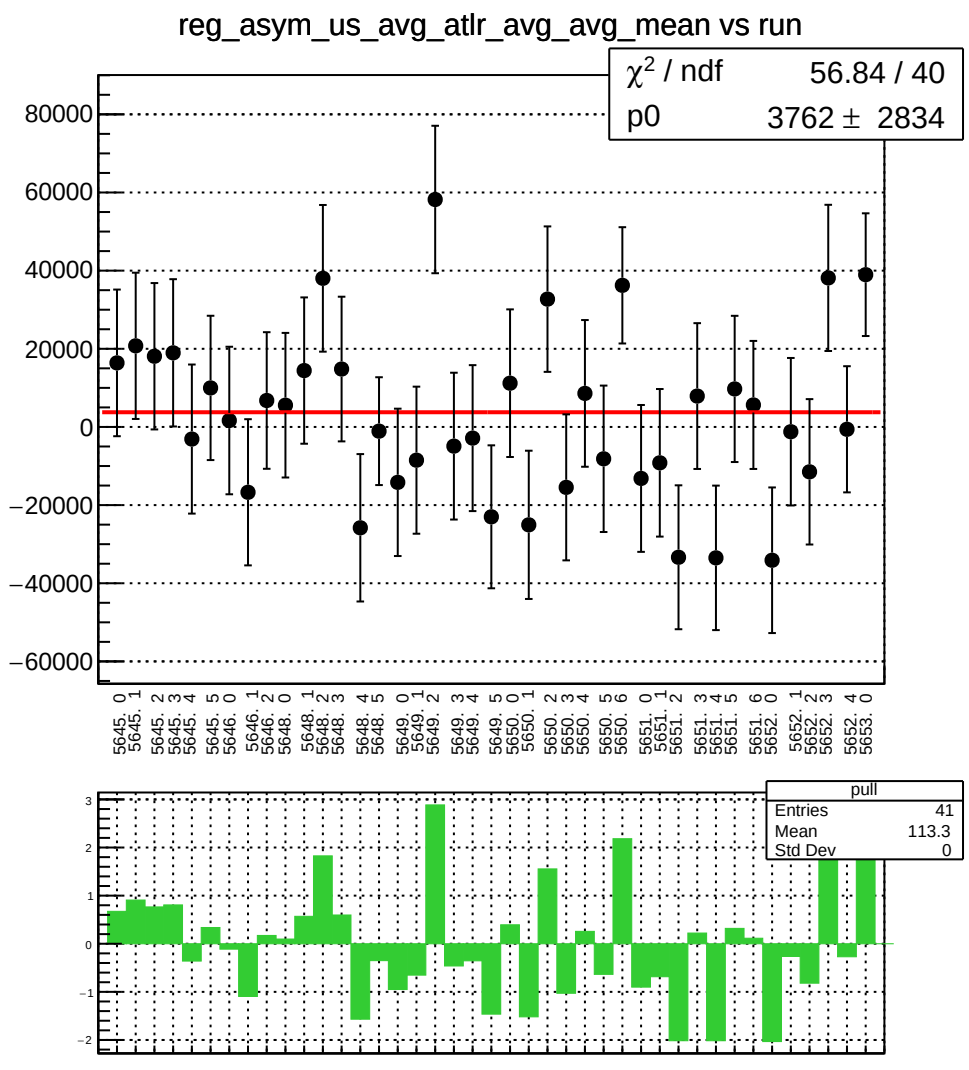

pull1D
Entries 41
Mean −0.01254
Std Dev 0.9323

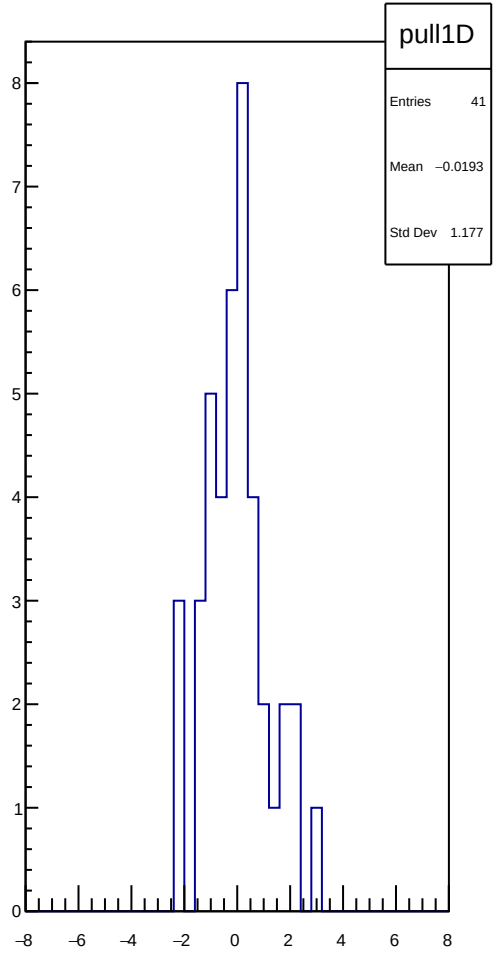

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.082e+04 / 40
p0 187.5 ± 0.2152
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

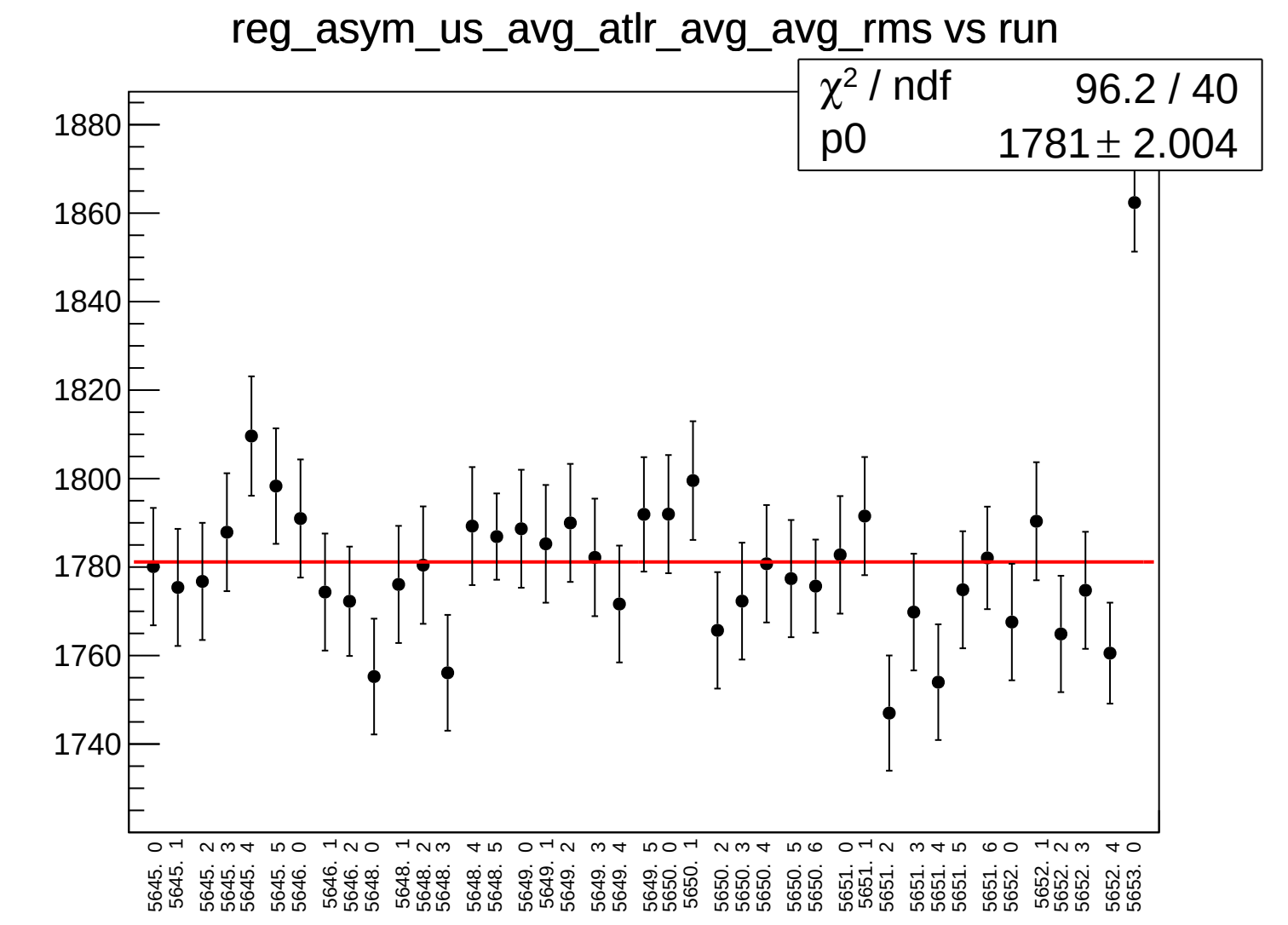

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.2 / 40
p0 −1.899e−13 ± 4.793e−13
20
10
0
−10
−20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.48
Std Dev 0
1
0
−1
−2
−3

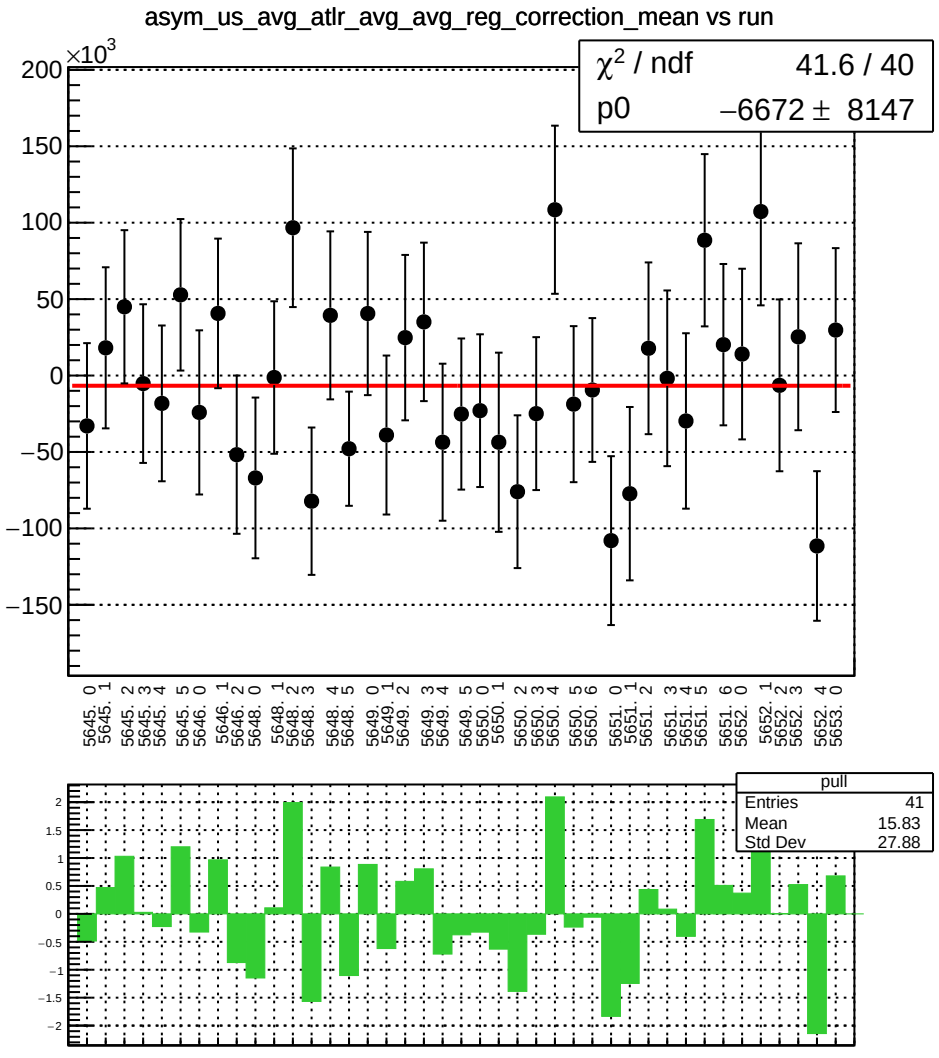

pull1D
Entries 41
Mean 0.06332
Std Dev 0.9111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

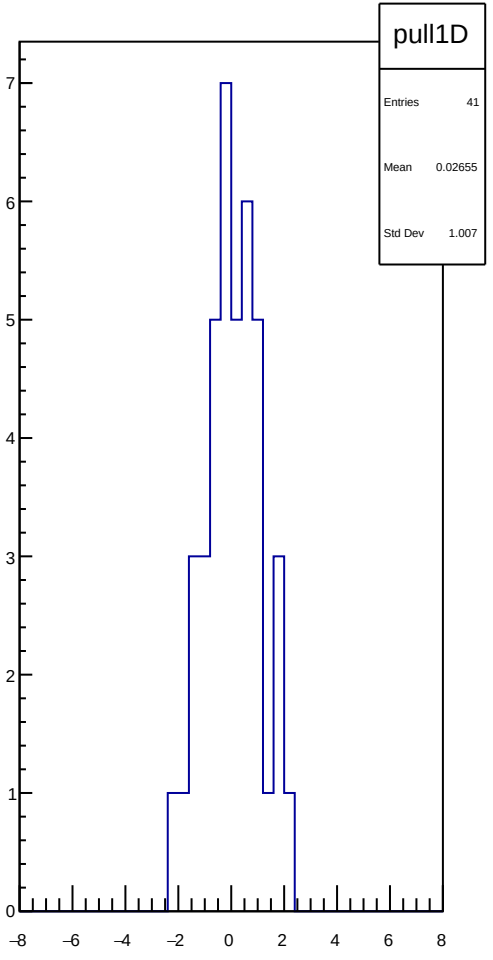

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.914e+05 / 40
p0 2.623e−10 ± 3.389e−13
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

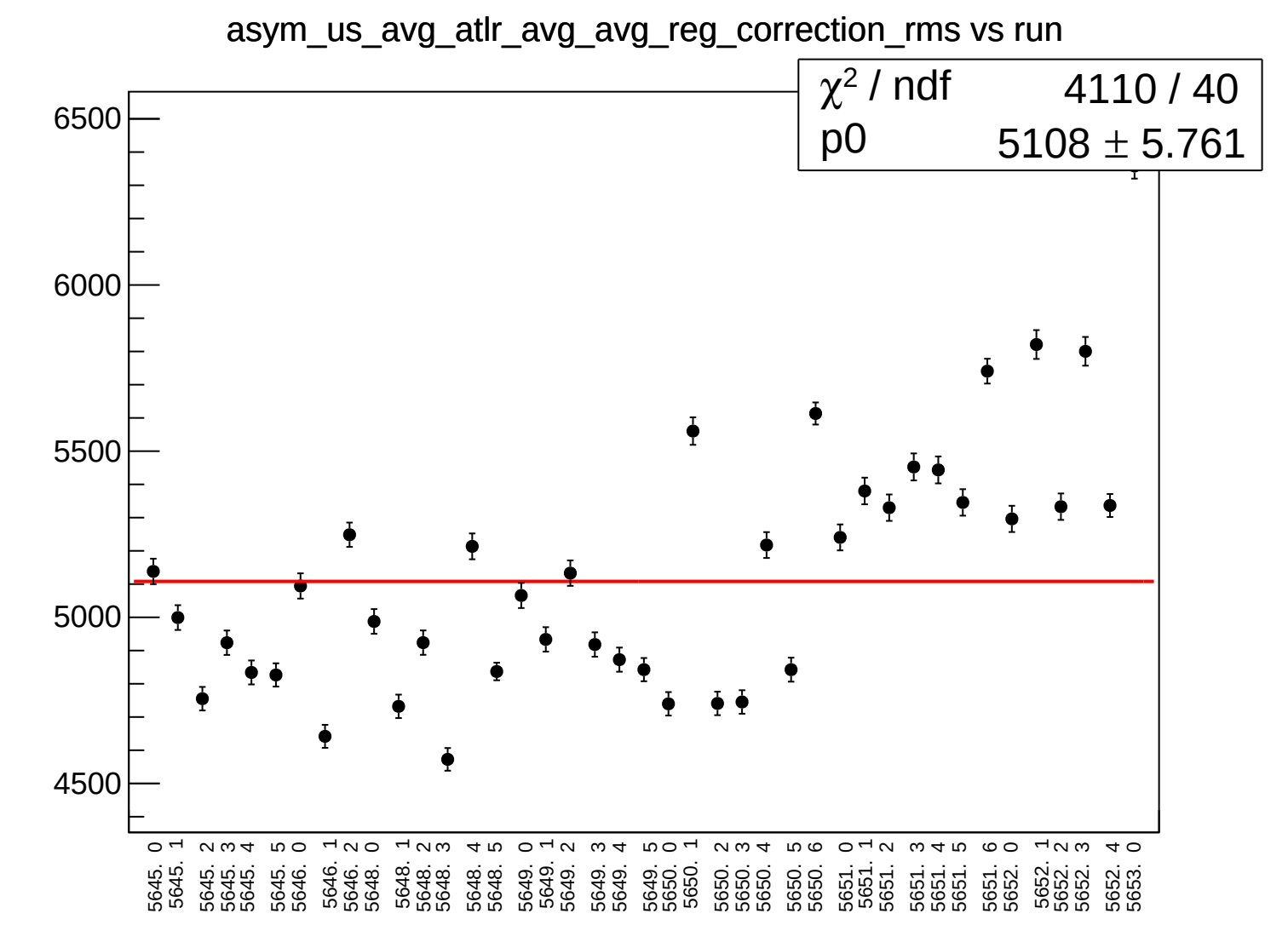

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 56.84 / 40
p0 3762 ± 2834
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 113.3
Std Dev 0
3
2
1
0
−1
−2

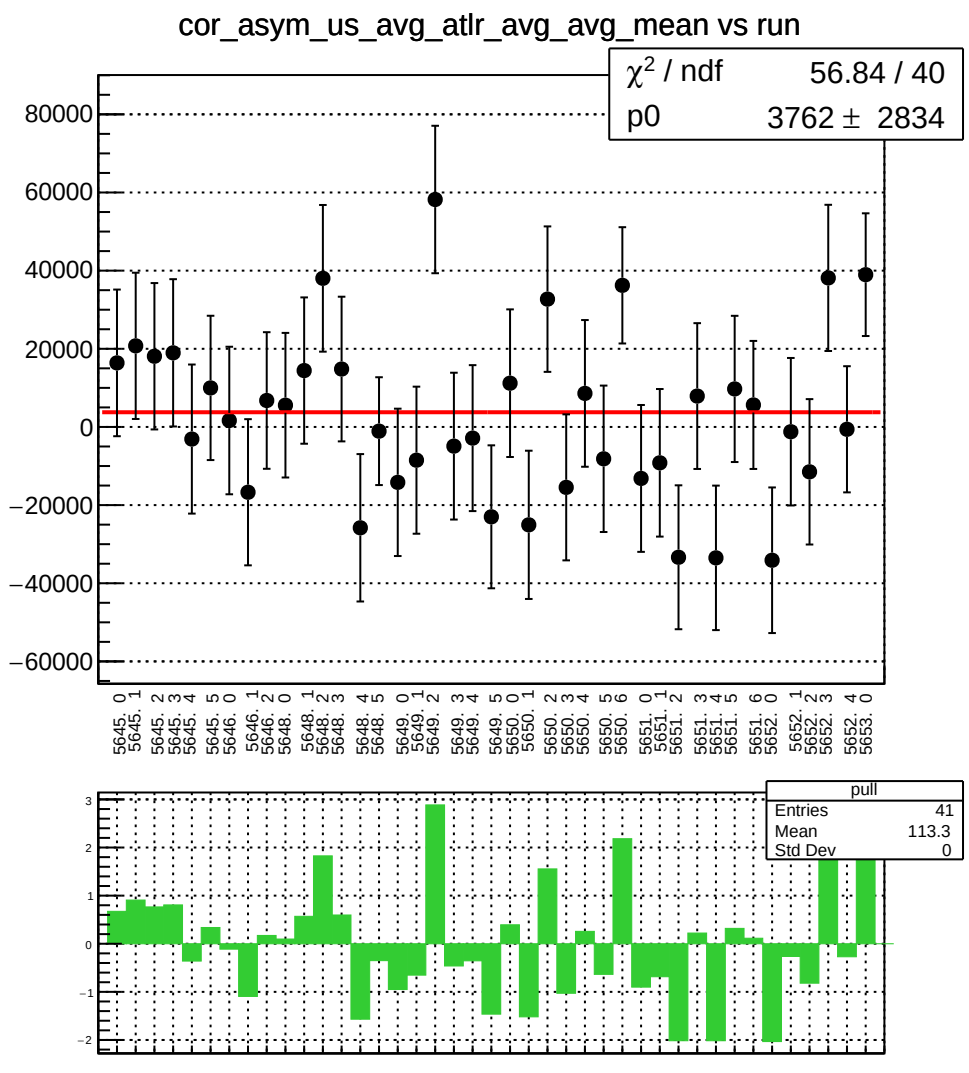

pull1D
Entries 41
Mean −0.0193
Std Dev 1.177
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

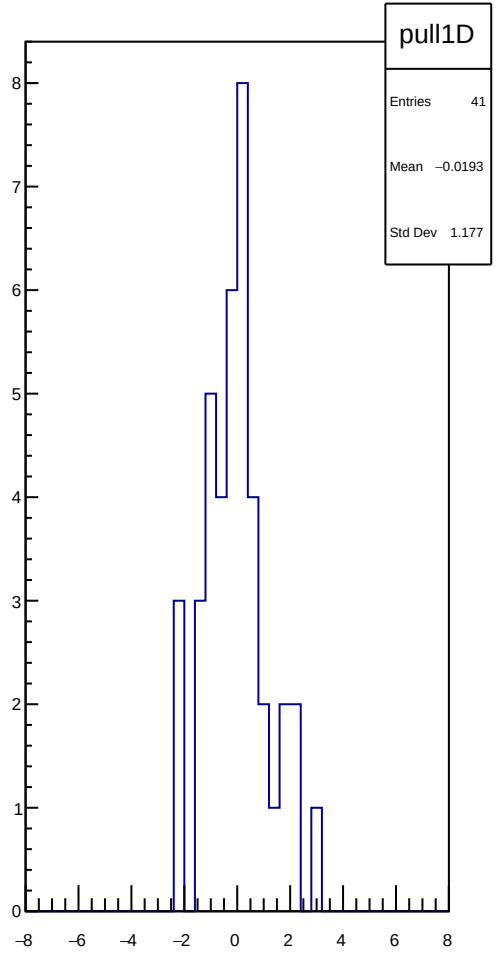

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 96.2 / 40
p0 1781 ± 2.004
1880
1860
1840
1820
1800
1780
1760
1740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

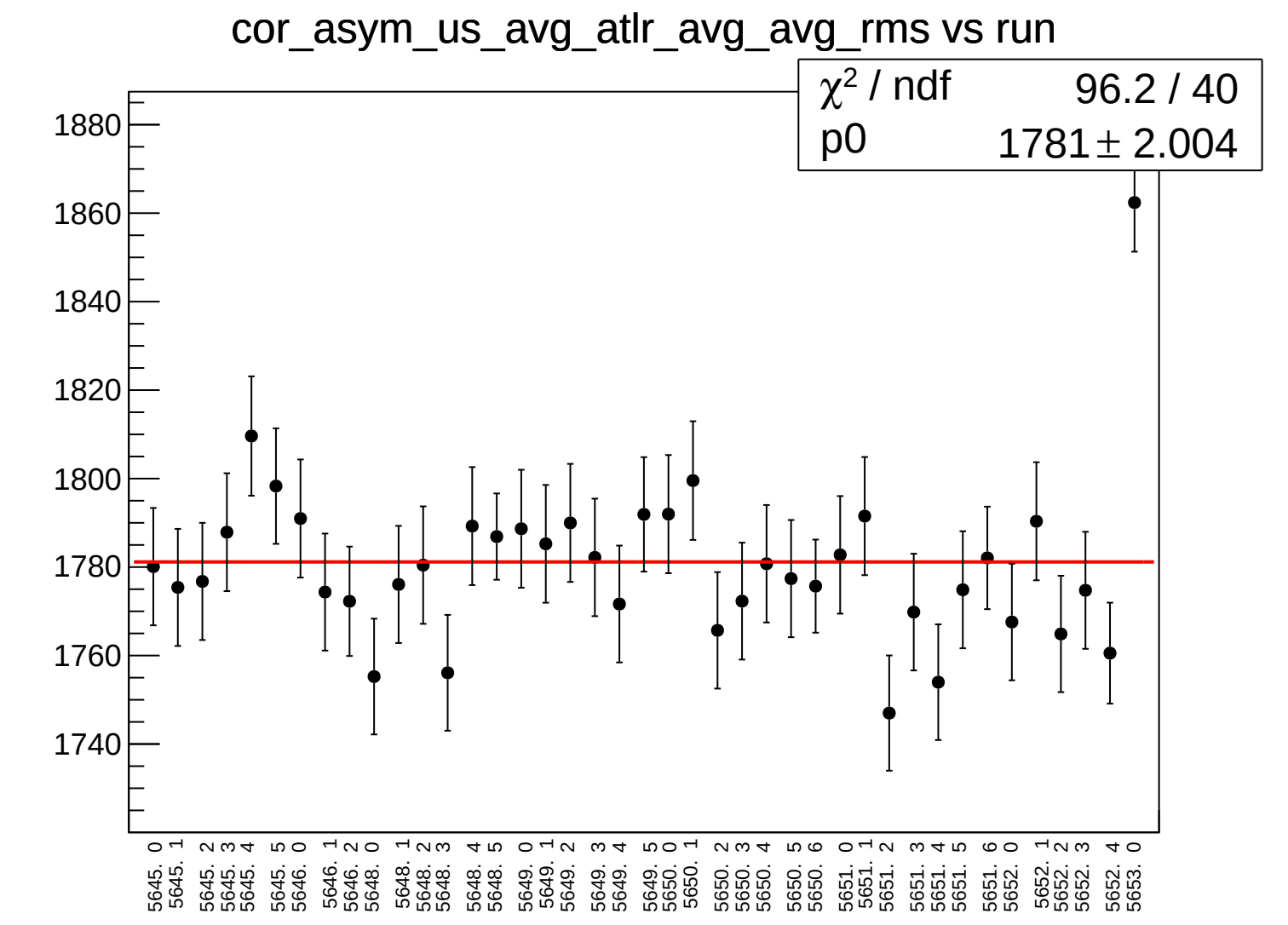

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 41.6 / 40
p0 −6672 ± 8147
pull
Entries 41
Mean 15.83
Std Dev 27.88

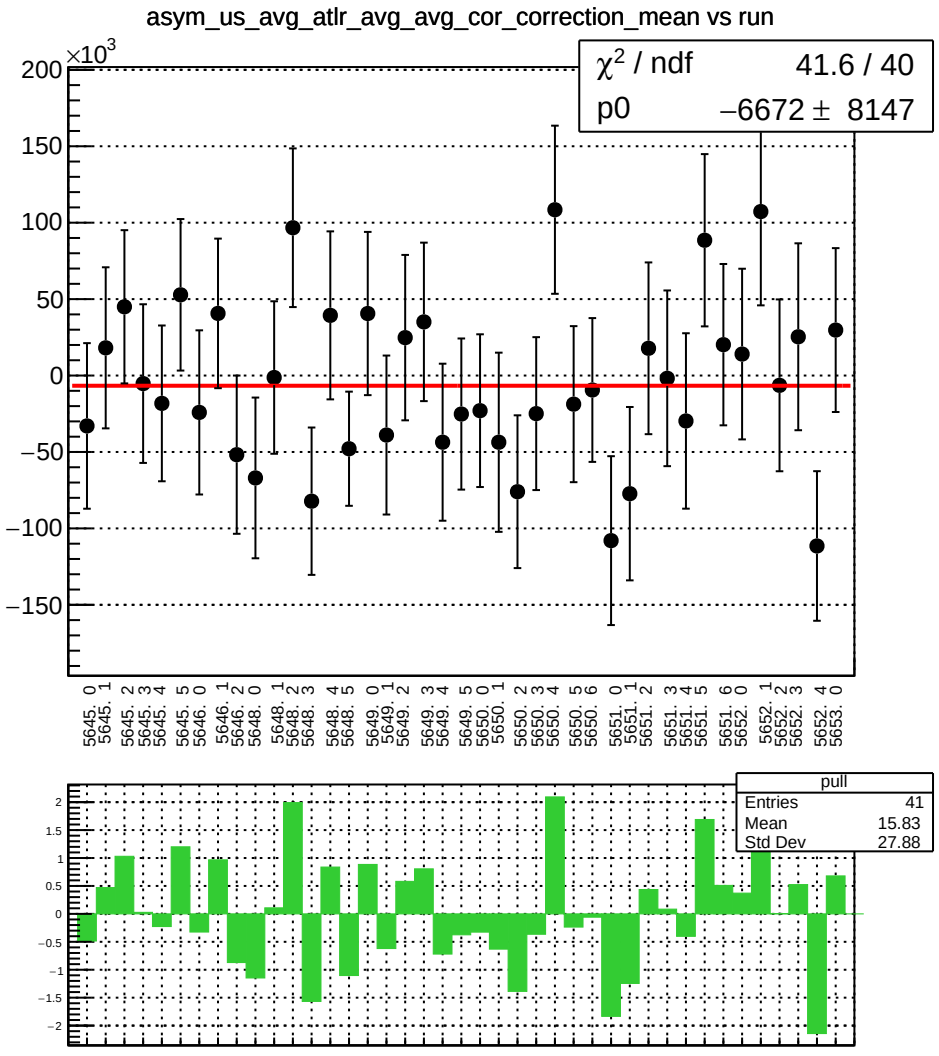

pull1D
Entries 41
Mean 0.02655
Std Dev 1.007

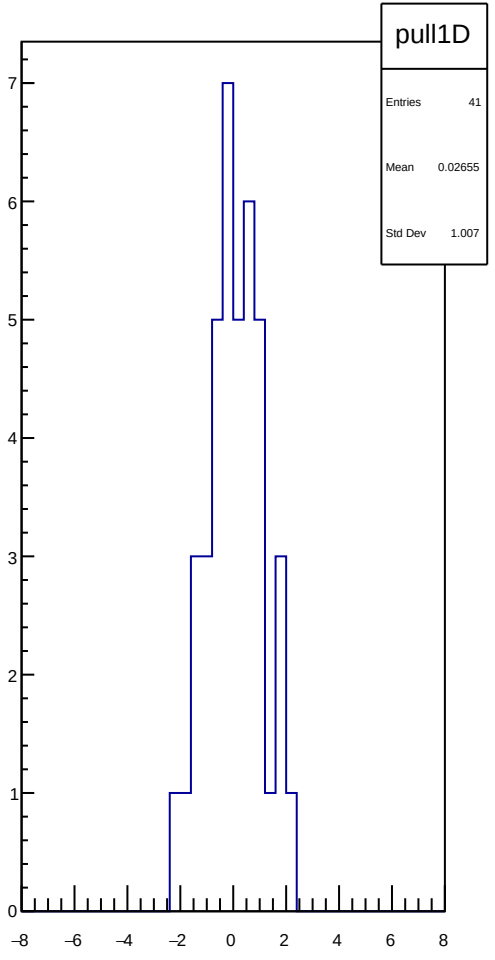

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4110 / 40
p0 5108 ± 5.761
6500
6000
5500
5000
4500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

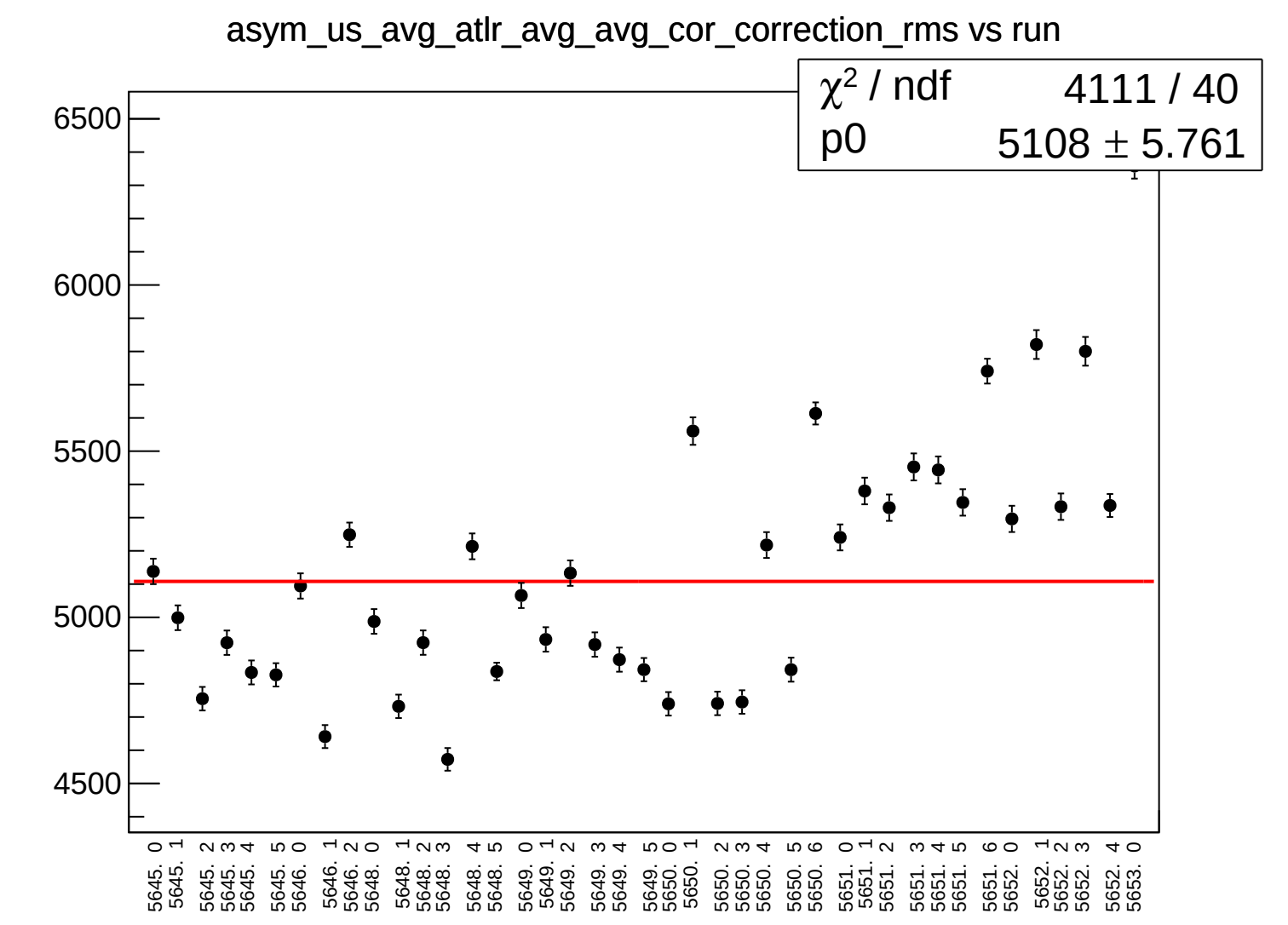

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 56.84 / 40
p0 3762 ± 2834
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 113.3
Std Dev 0
3
2
1
0
−1
−2

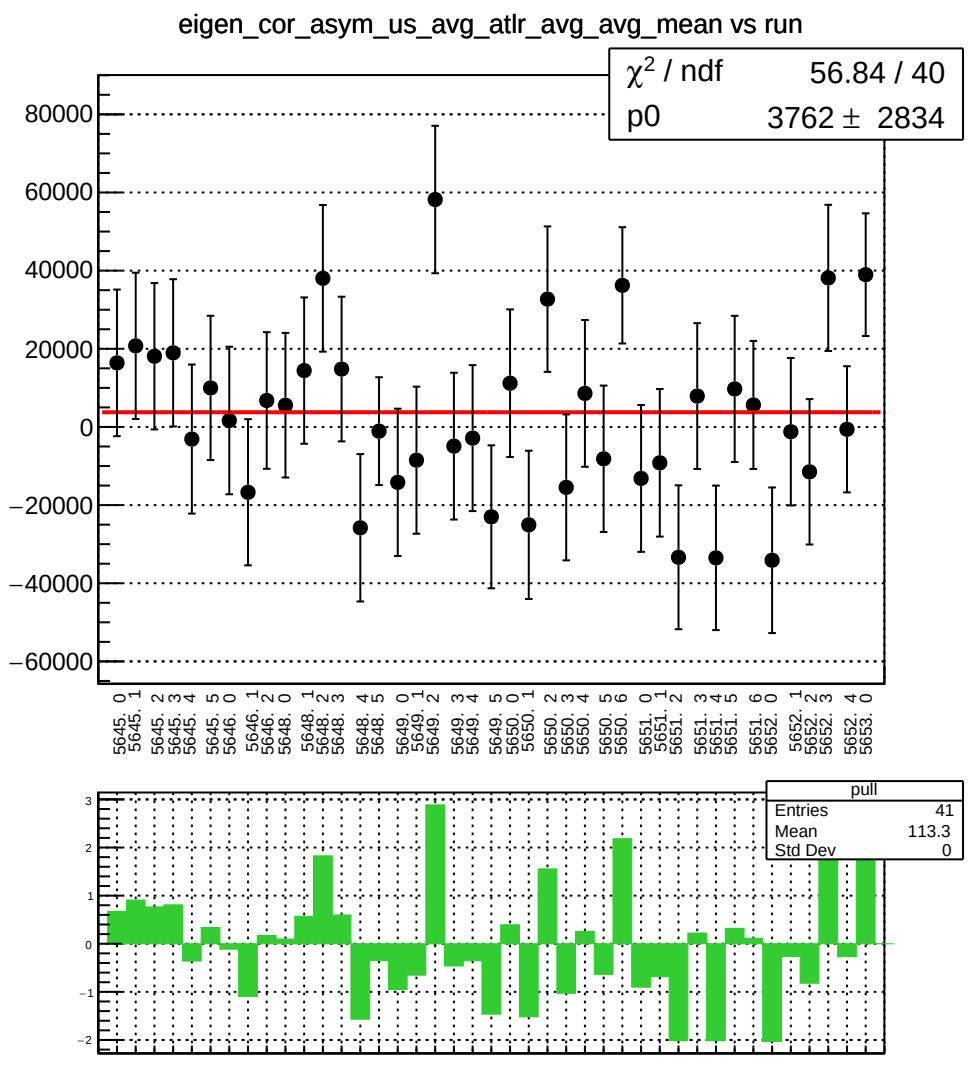

pull1D
Entries 41
Mean −0.0193
Std Dev 1.177
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

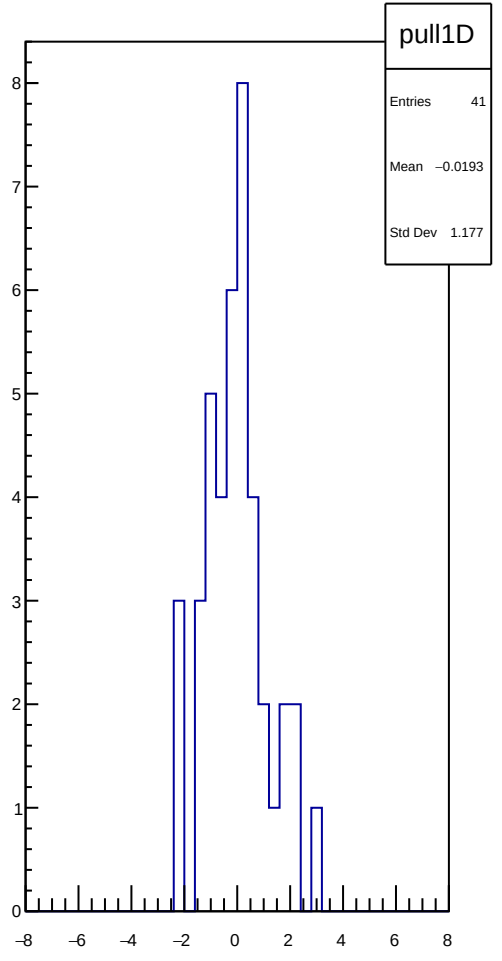

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 96.2 / 40
p0 1781 ± 2.004
1880
1860
1840
1820
1800
1780
1760
1740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

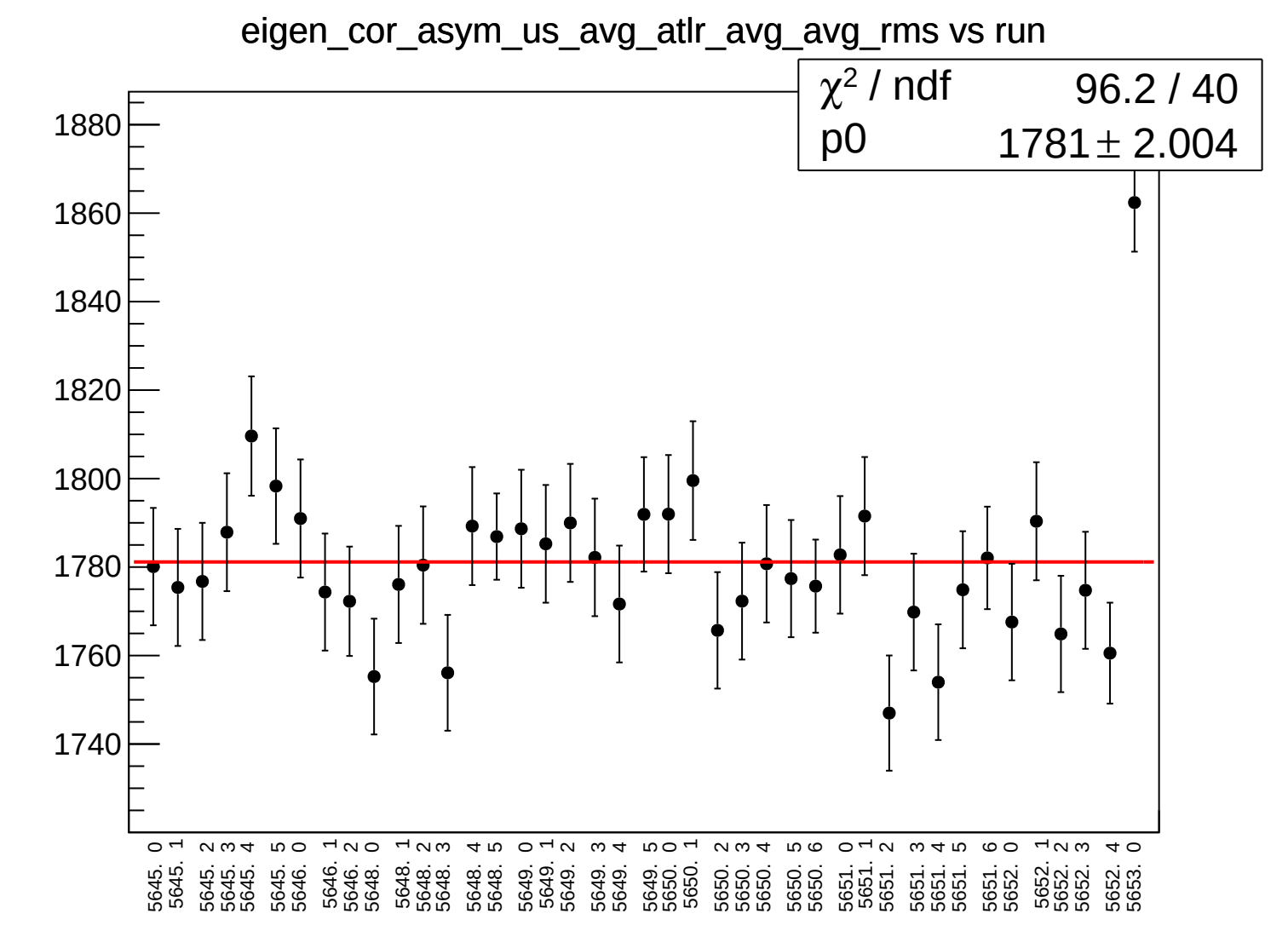

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 41.6 / 40
p0 −6672 ± 8147
pull
Entries 41
Mean 15.83
Std Dev 27.88

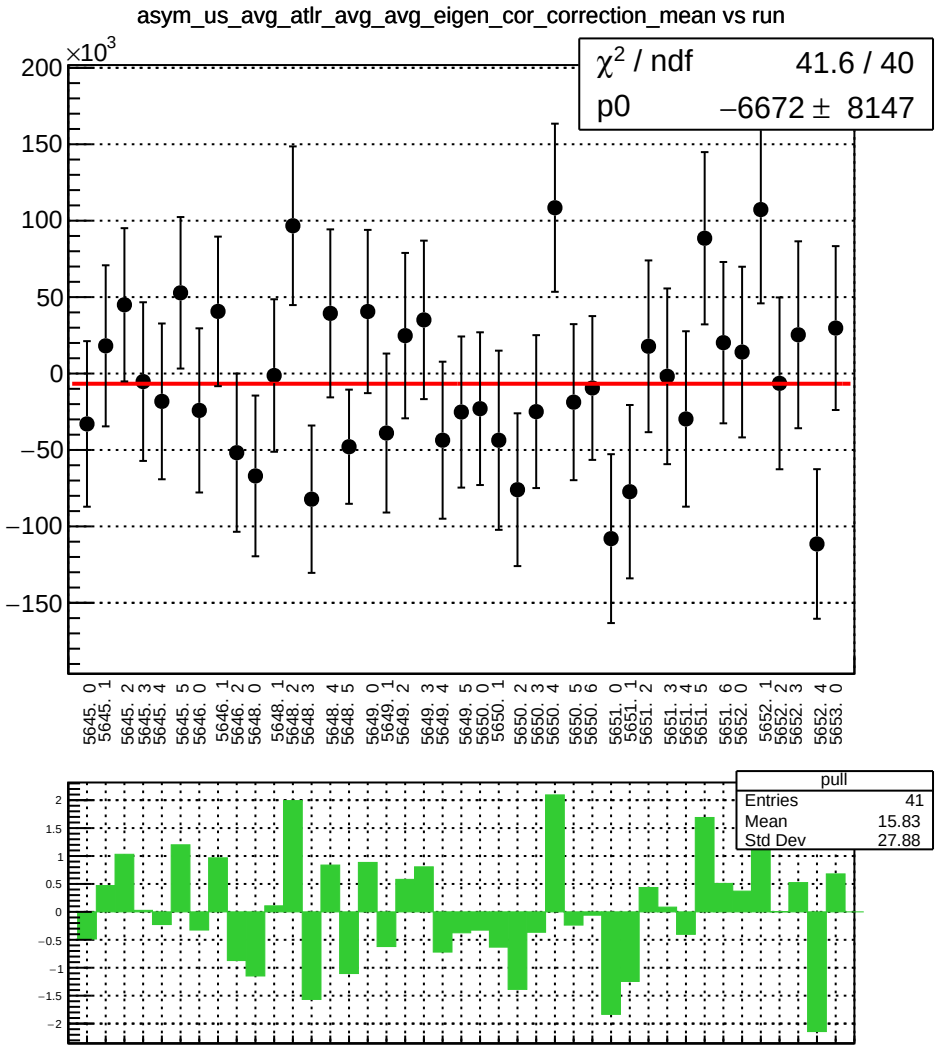

pull1D
Entries 41
Mean 0.02655
Std Dev 1.007

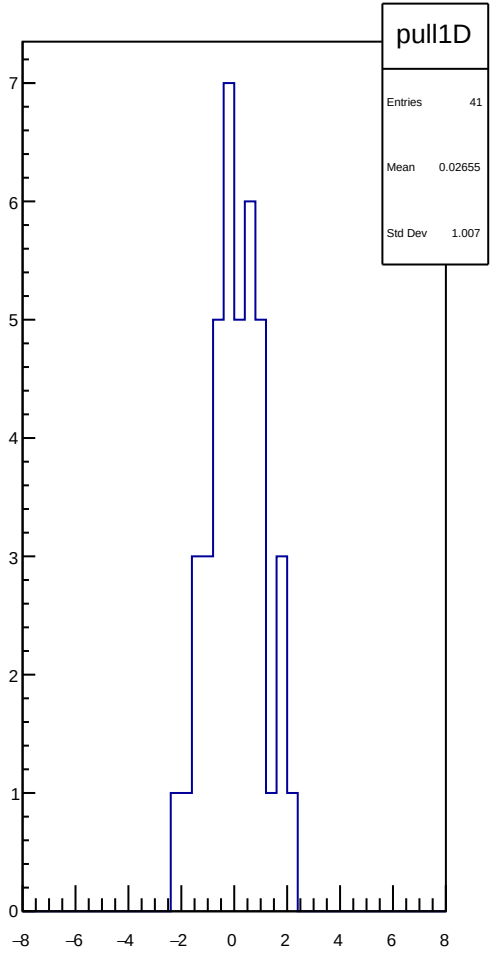

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4111 / 40
p0 5108 ± 5.761
6500
6000
5500
5000
4500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

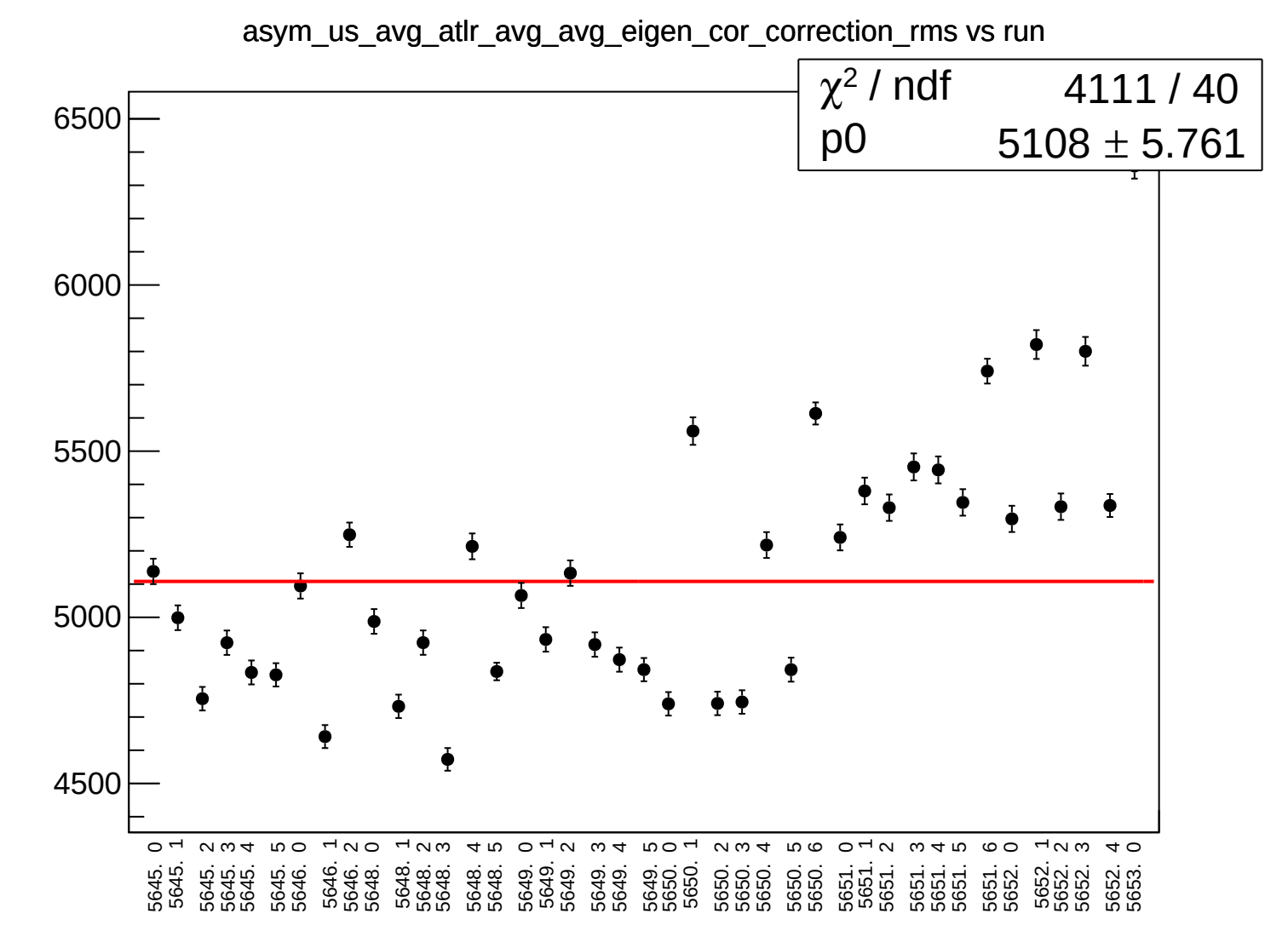

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 56.84 / 40
p0 3762 ± 2834
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 113.3
Std Dev 0
3
2
1
0
−1
−2

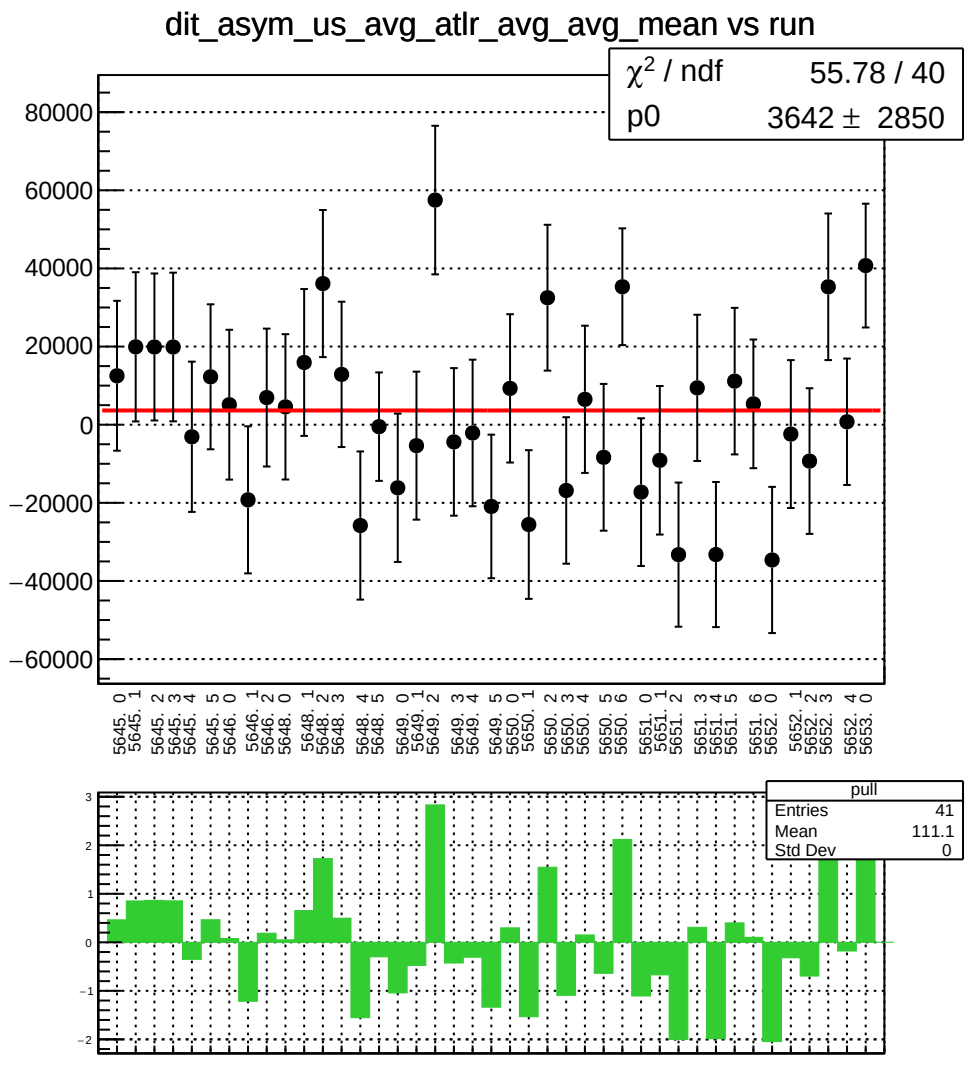

pull1D
Entries 41
Mean −0.0193
Std Dev 1.177
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

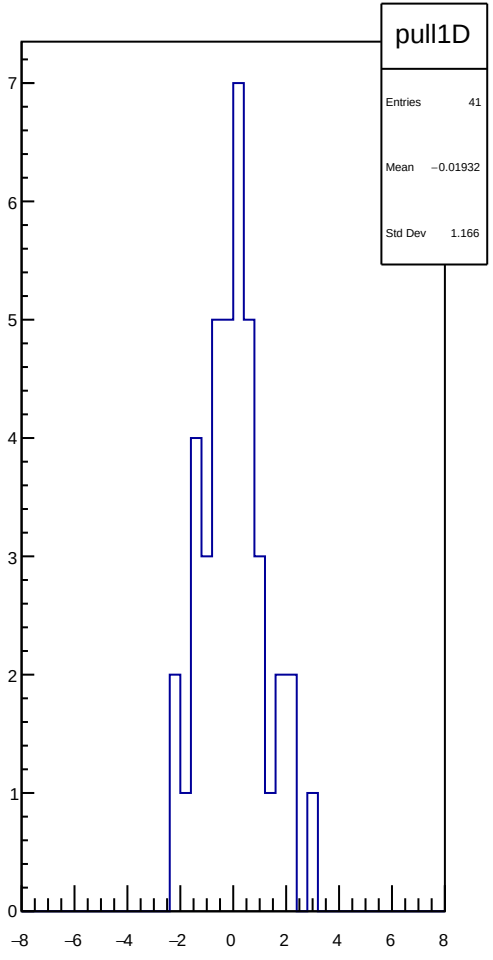

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 96.2 / 40
p0 1781 ± 2.004
1880
1860
1840
1820
1800
1780
1760
1740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

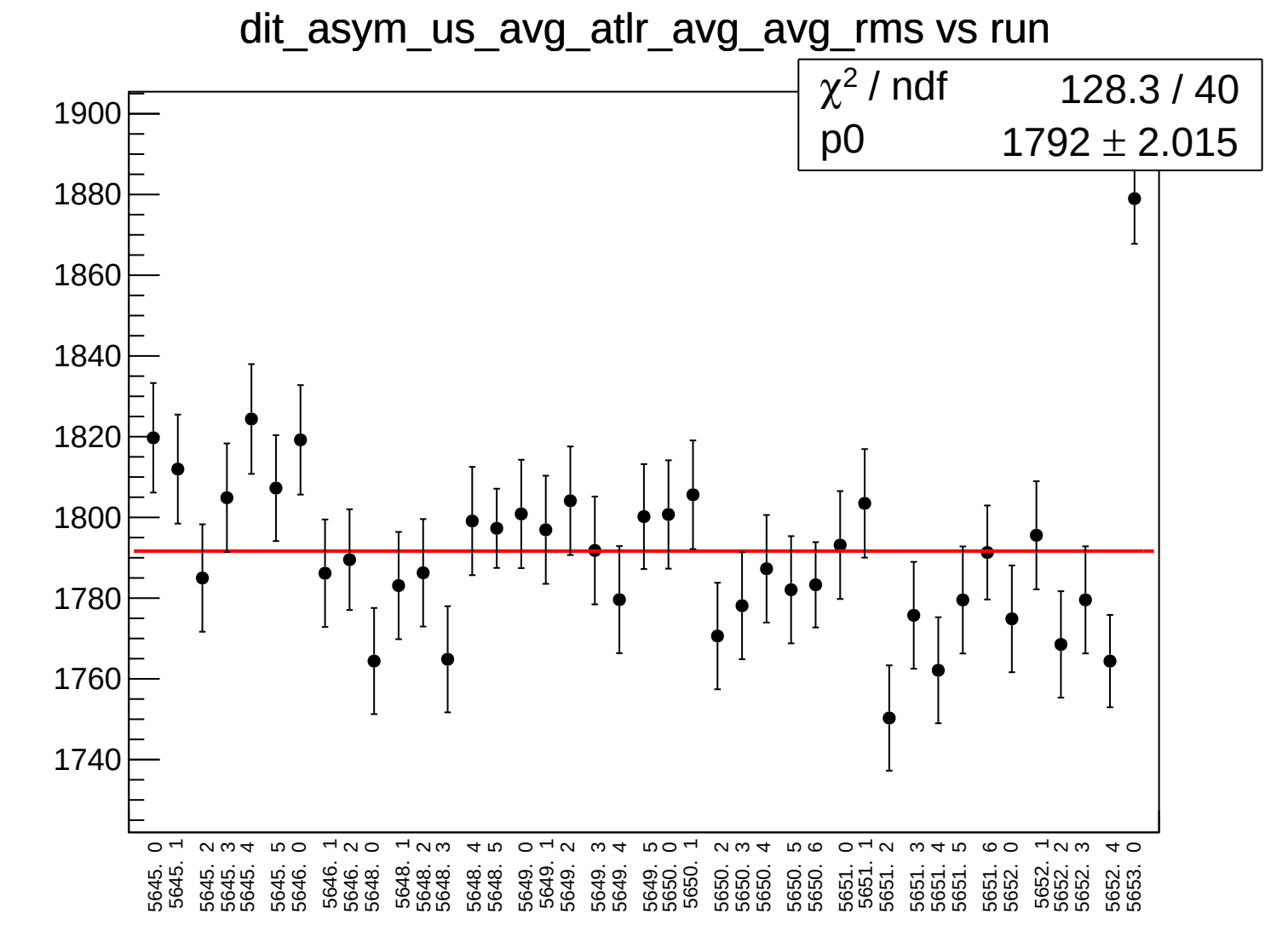

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 41.6 / 40
p0 −6672 ± 8147
pull
Entries 41
Mean 15.83
Std Dev 27.88

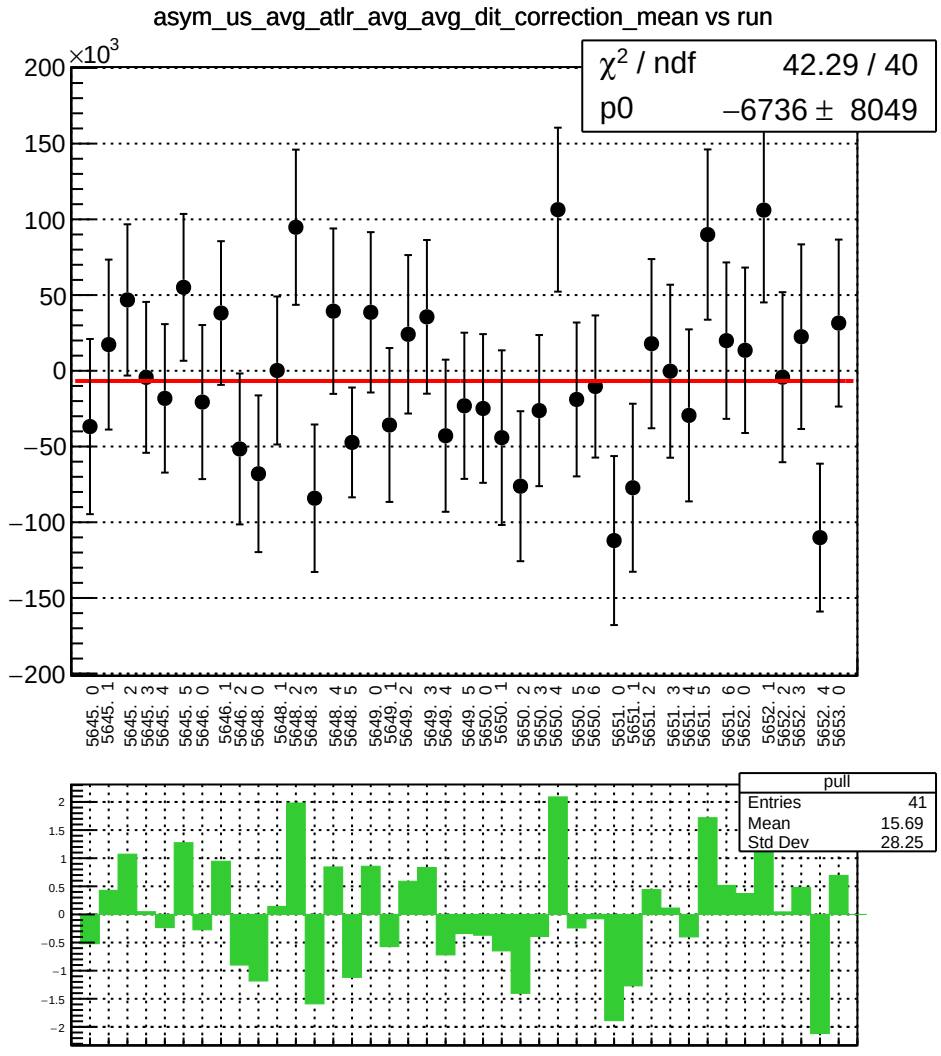

pull1D
Entries 41
Mean 0.02655
Std Dev 1.007

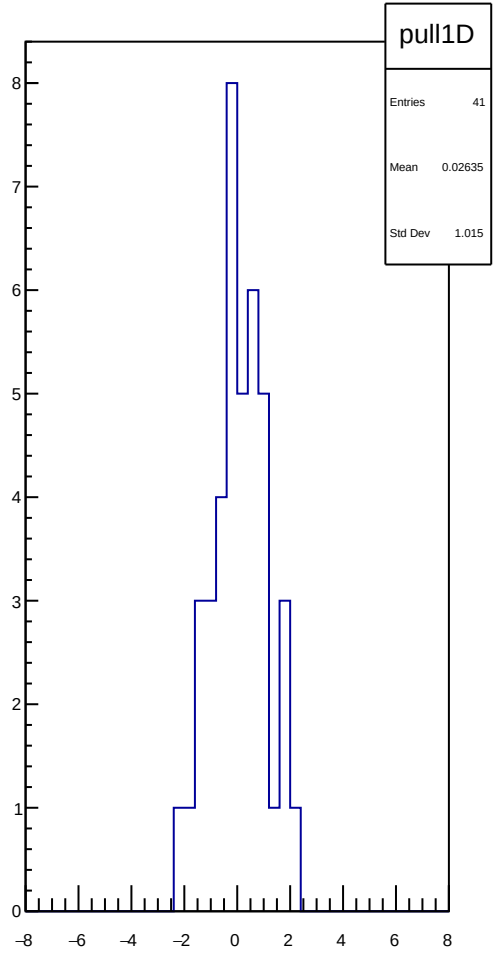

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4111 / 40
p0 5108 ± 5.761
6500
6000
5500
5000
4500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

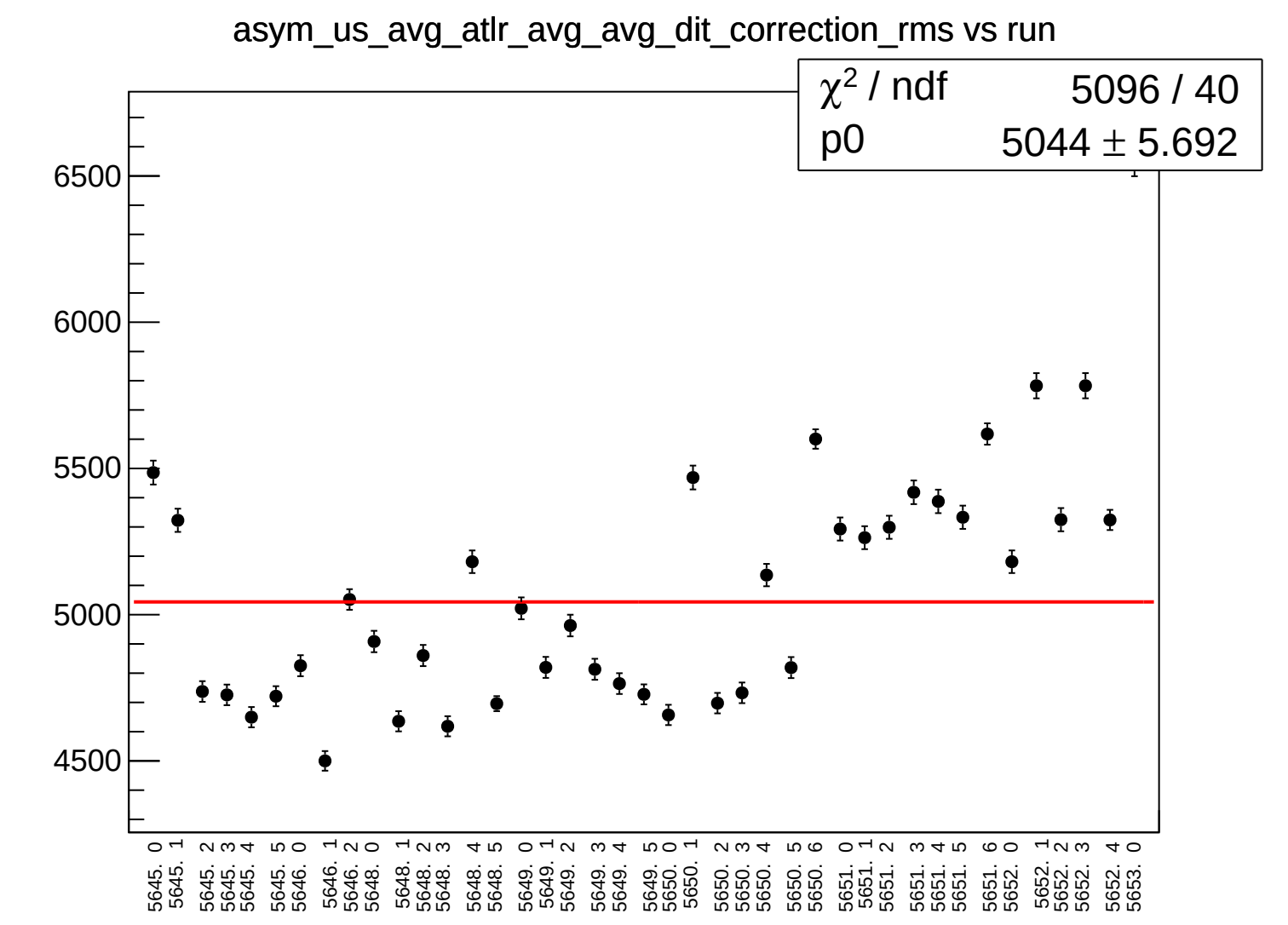

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 55.78 / 40
p0 3642 ± 2850
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 111.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.01932
Std Dev 1.166
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 128.3 / 40
p0 1792 ± 2.015
1900
1880
1860
1840
1820
1800
1780
1760
1740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 42.29 / 40
p0 −6736 ± 8049
pull
Entries 41
Mean 15.69
Std Dev 28.25


pull1D
Entries 41
Mean 0.02635
Std Dev 1.015


asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 5096 / 40
p0 5044 ± 5.692
6500
6000
5500
5000
4500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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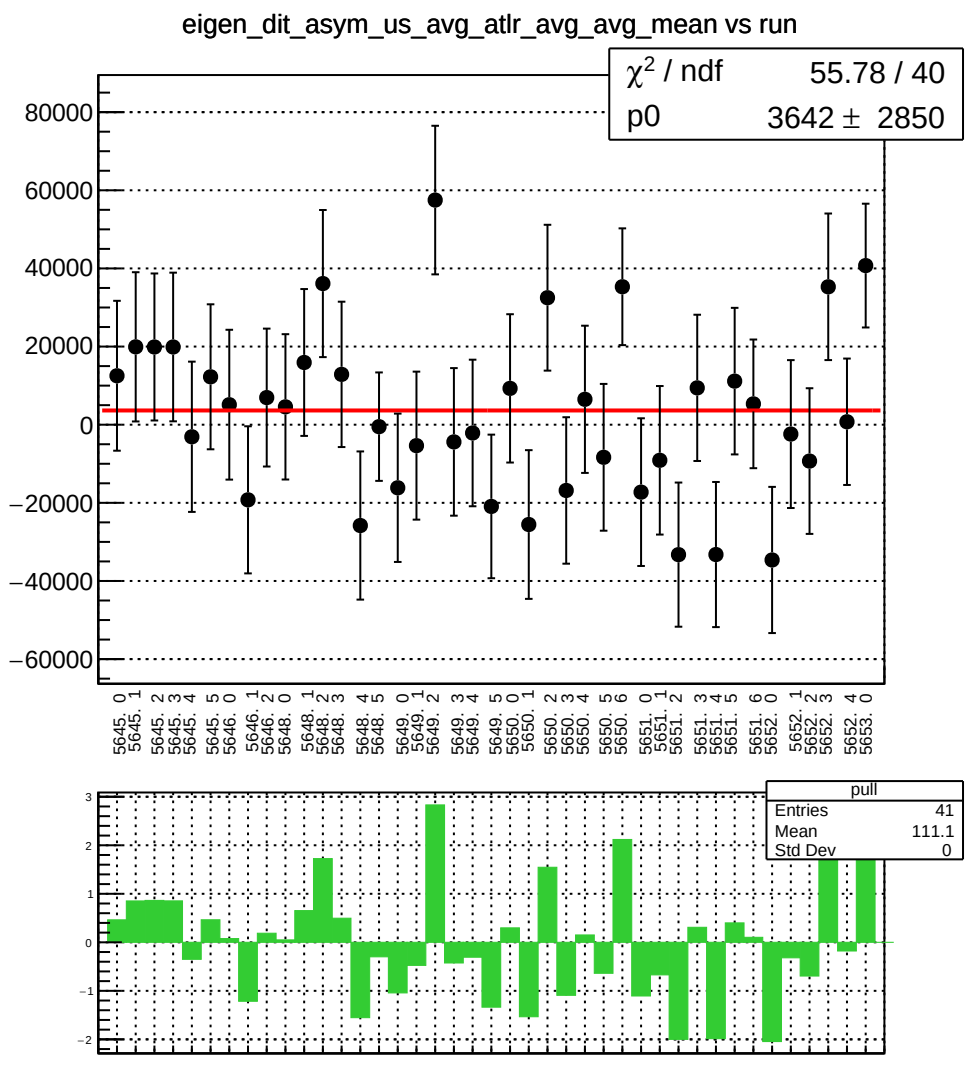
5652. 4
5653. 0


eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 55.78 / 40
p0 3642 ± 2850
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
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5649. 2
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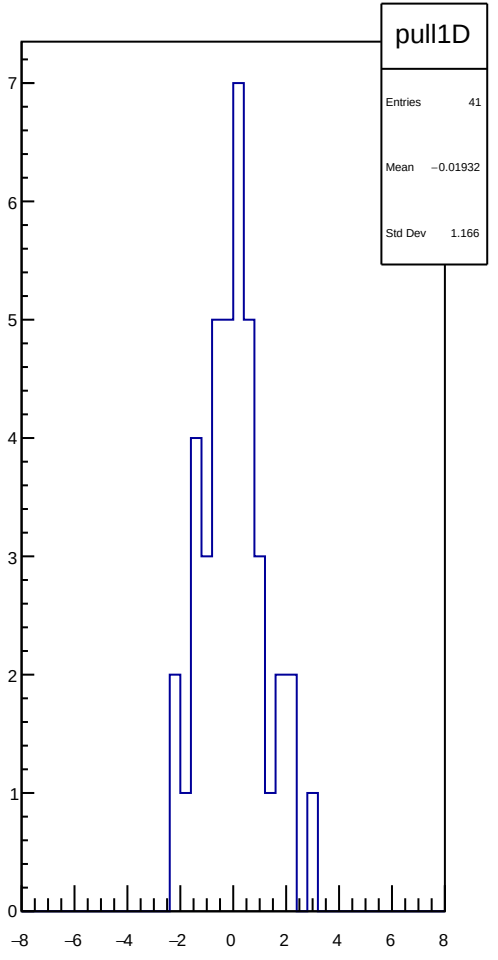
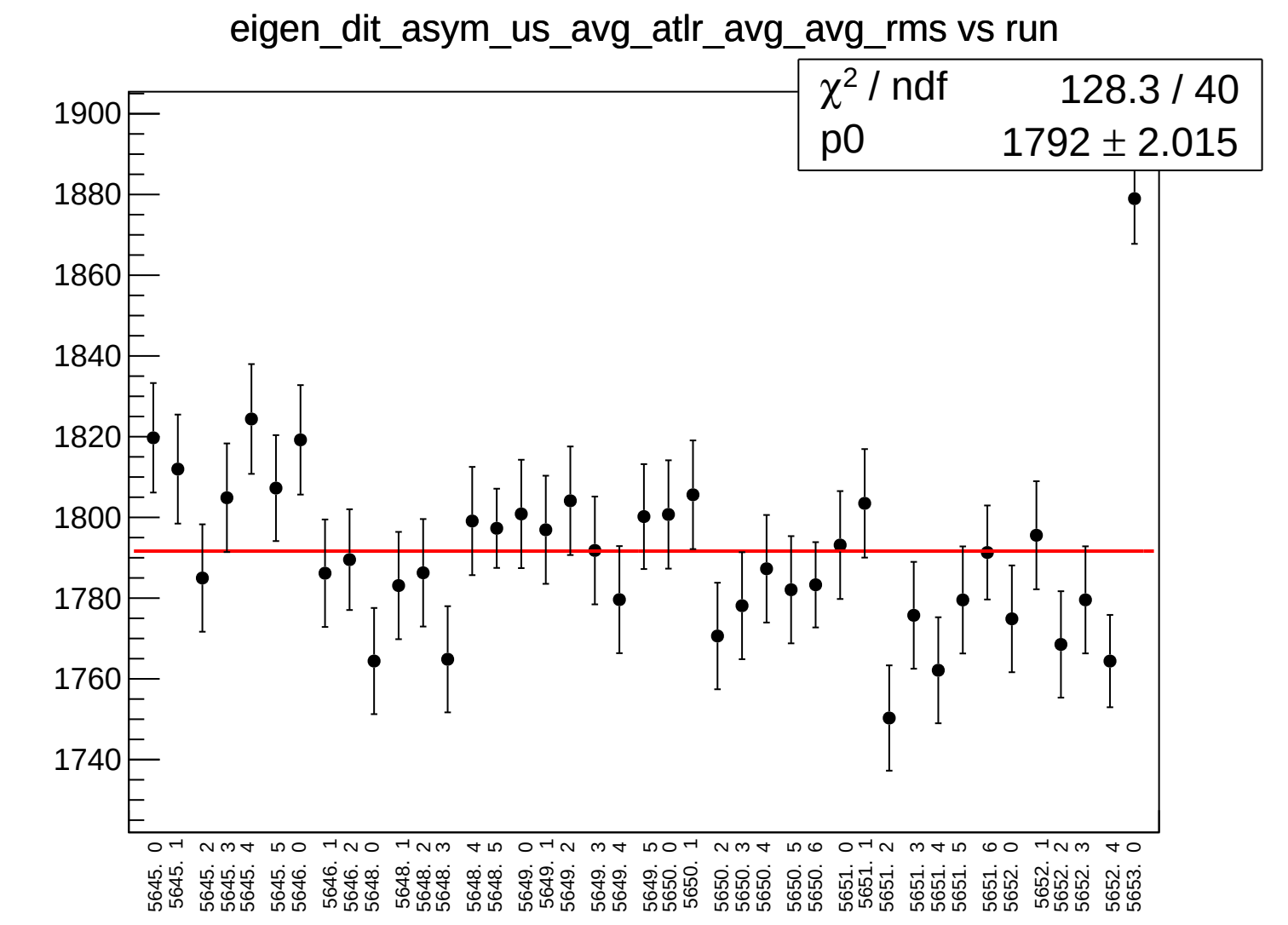
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 111.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.01932
Std Dev 1.166
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 128.3 / 40
p0 1792 ± 2.015
1900
1880
1860
1840
1820
1800
1780
1760
1740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
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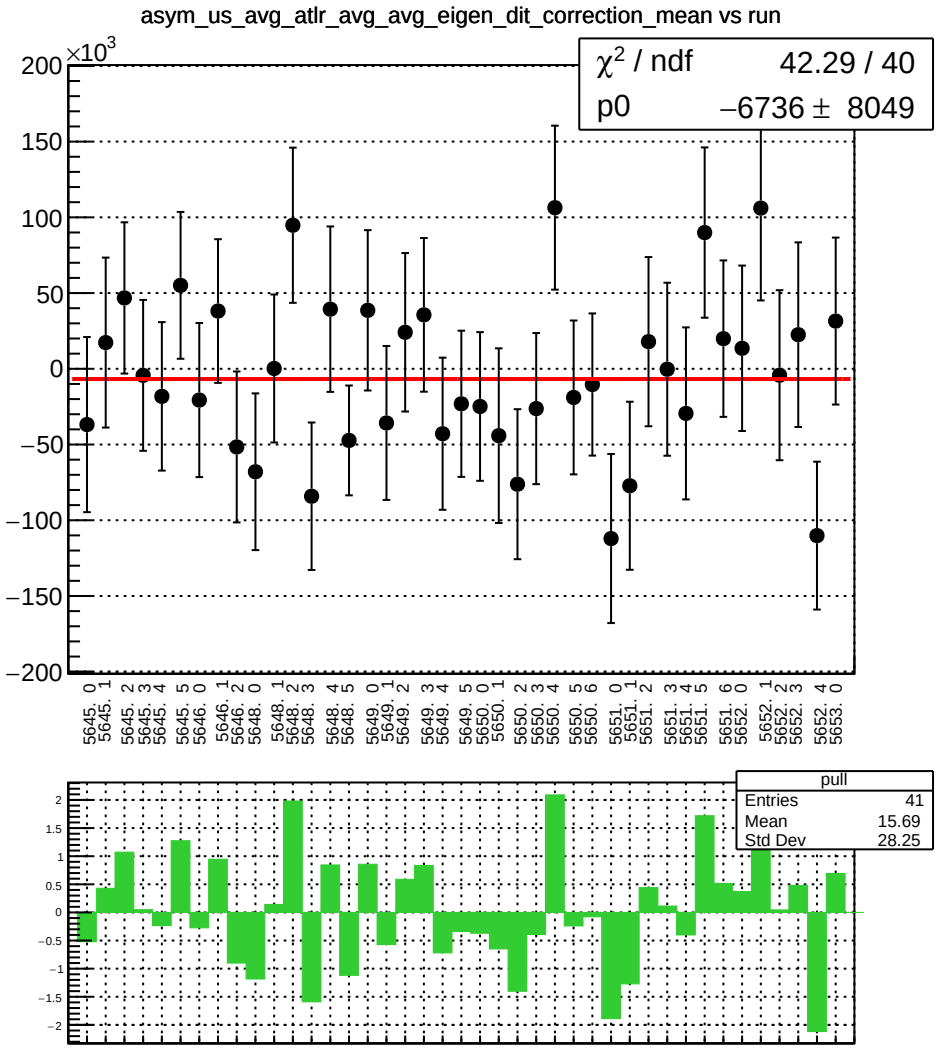
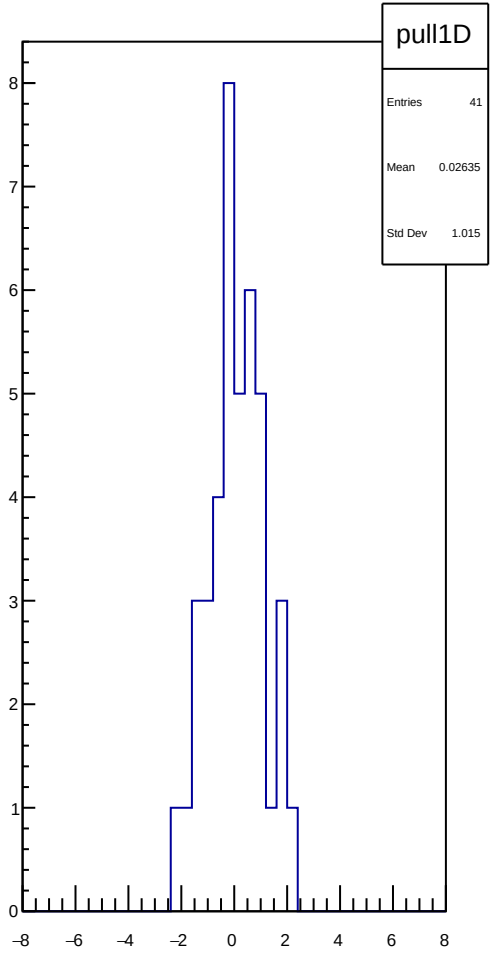
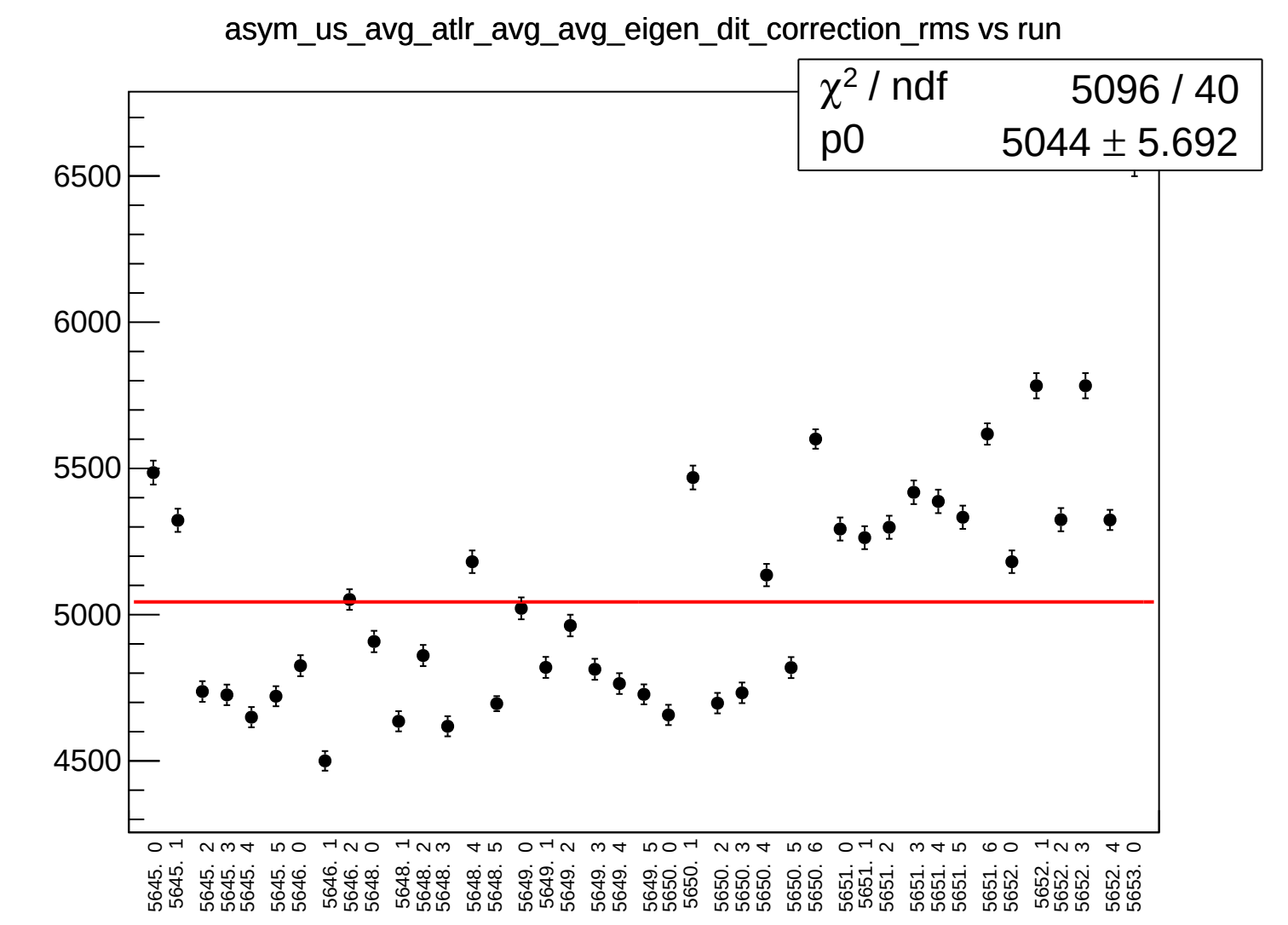
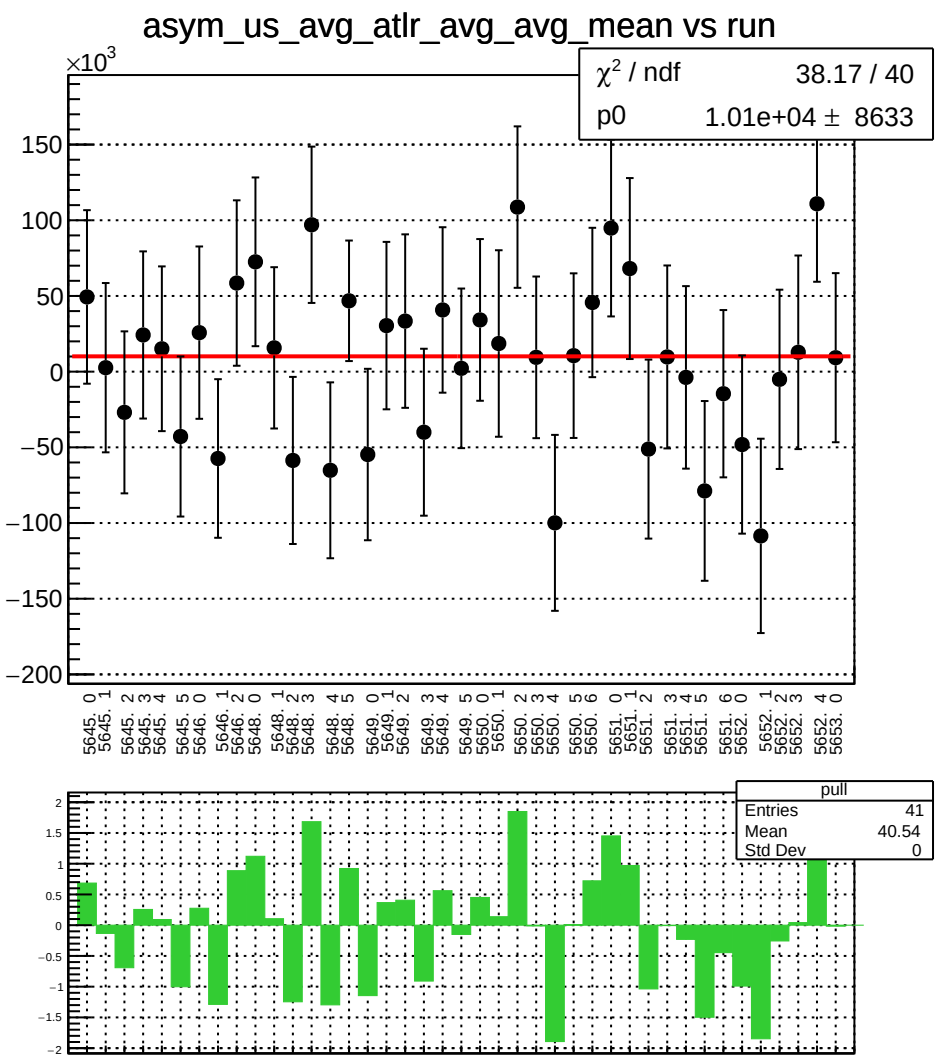
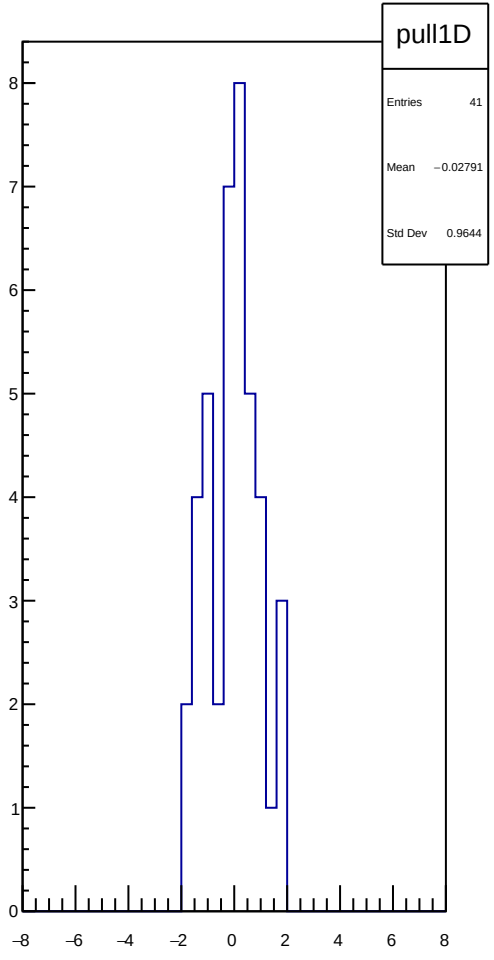
5653. 0

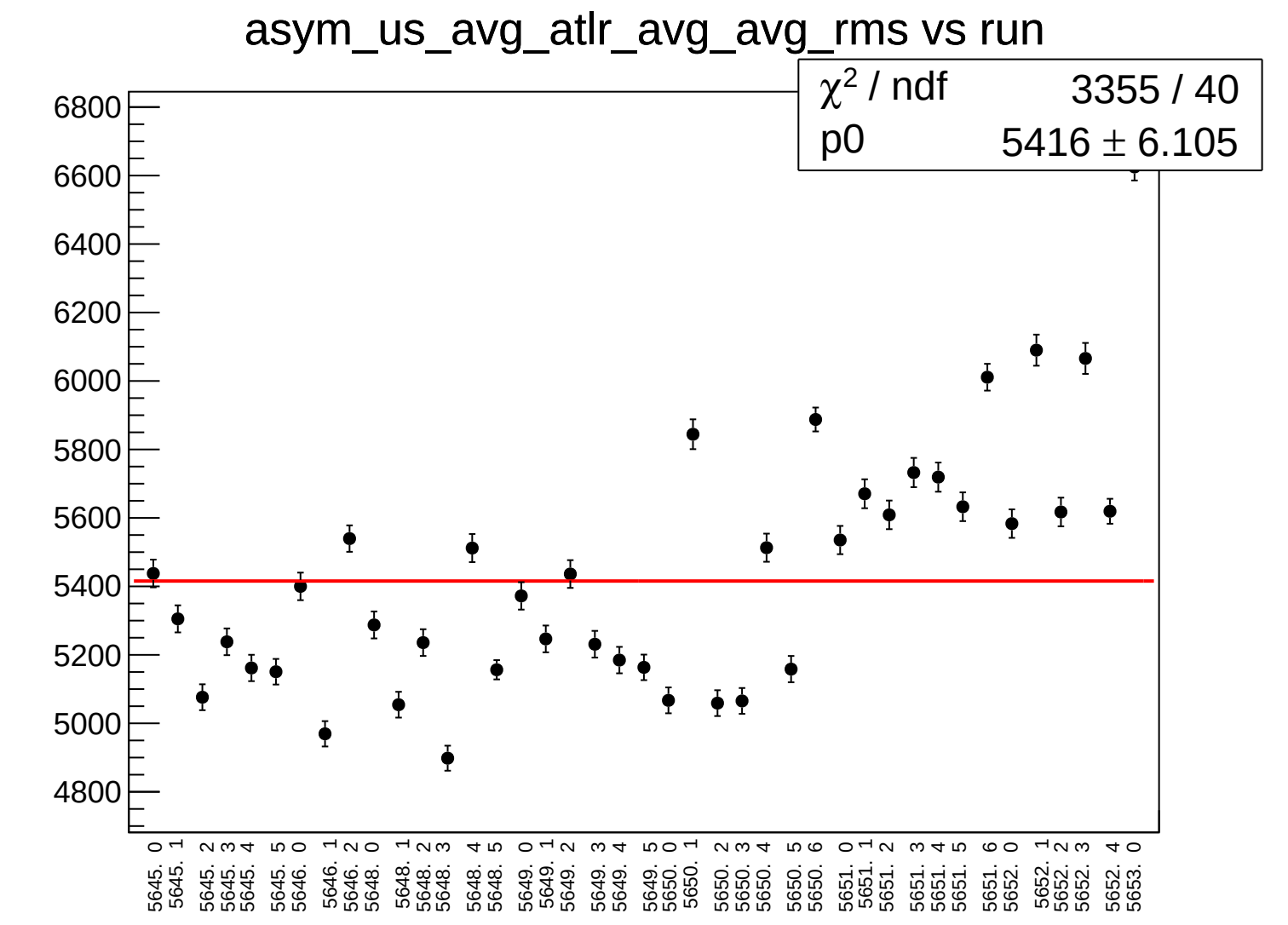

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 42.29 / 40
p0 −6736 ± 8049
pull
Entries 41
Mean 15.69
Std Dev 28.25

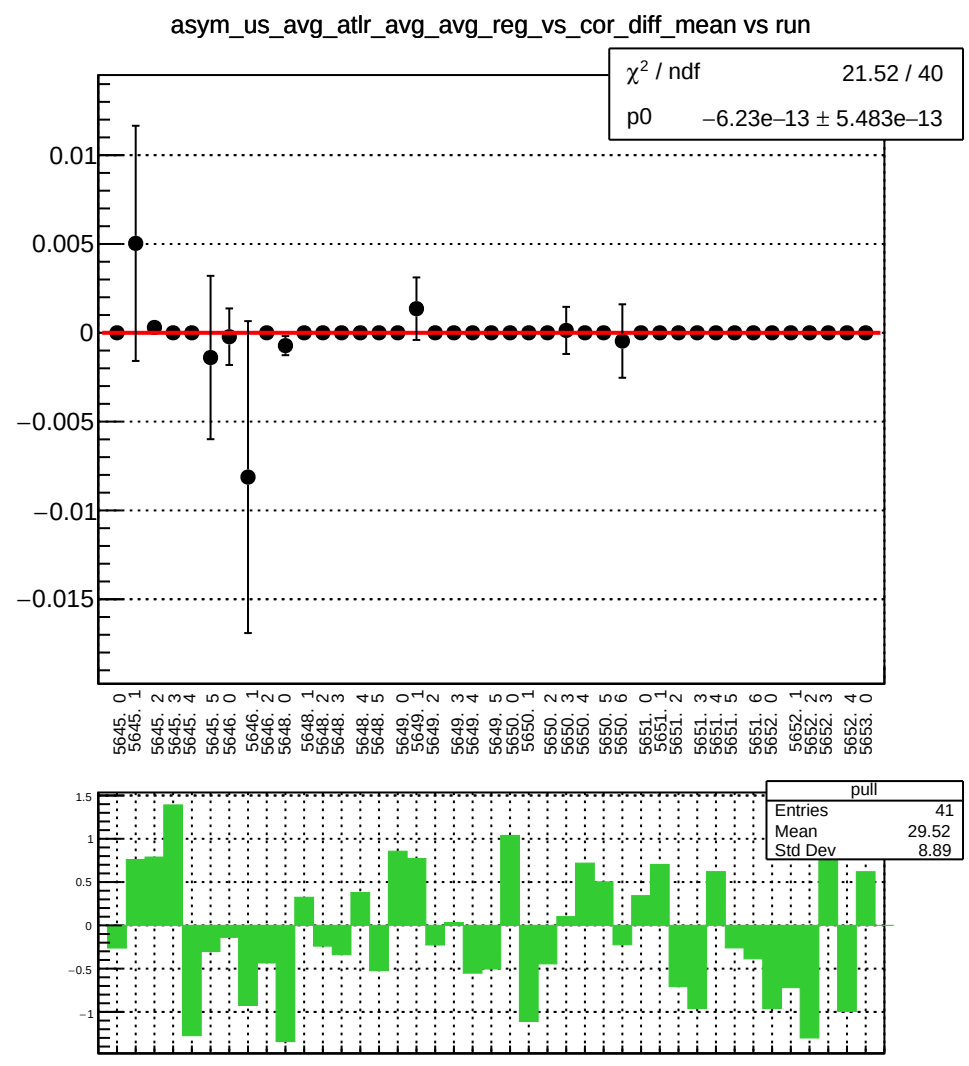

pull1D
Entries 41
Mean 0.02635
Std Dev 1.015

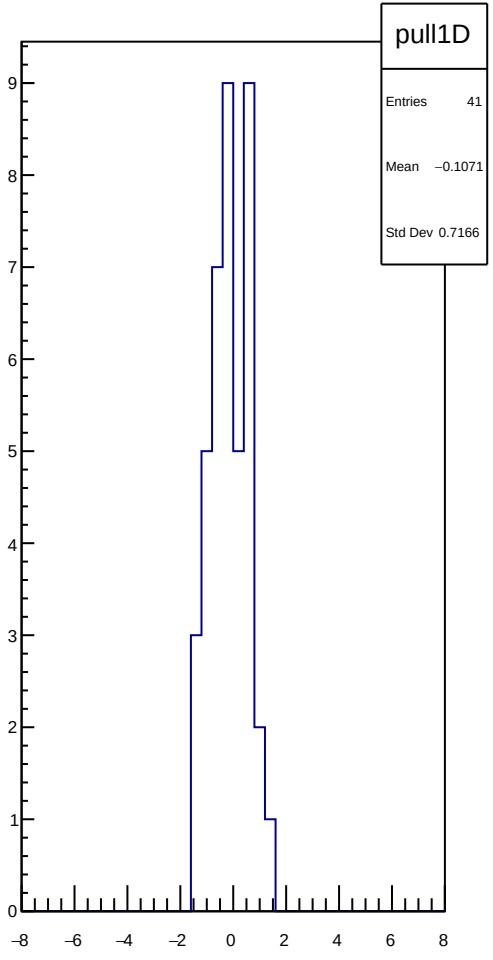

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5096 / 40
p0 5044 ± 5.692
6500
6000
5500
5000
4500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

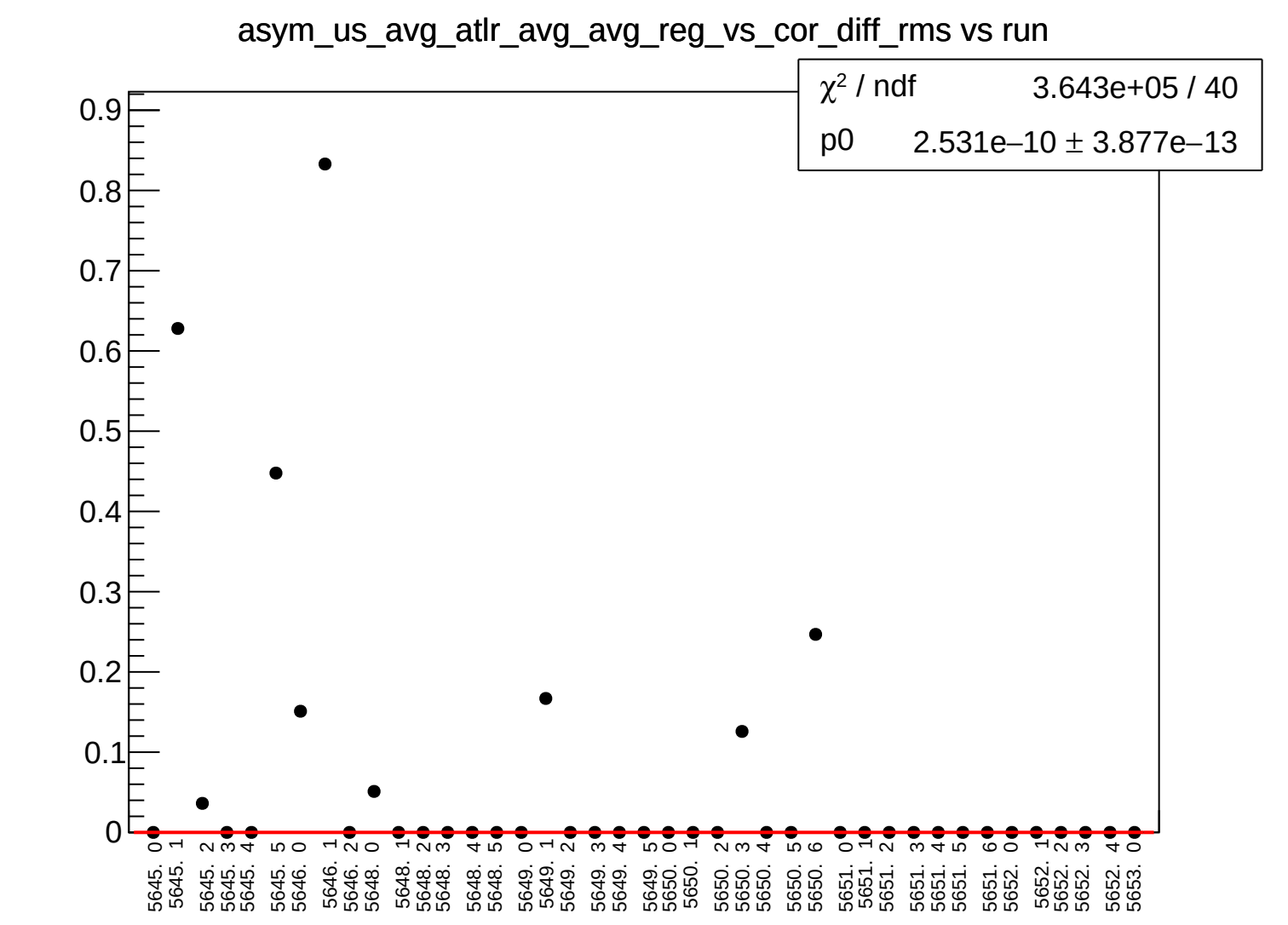

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 38.17 / 40
p0 1.01e+04 ± 8633
150
100
50
0
−50
−100
−150
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

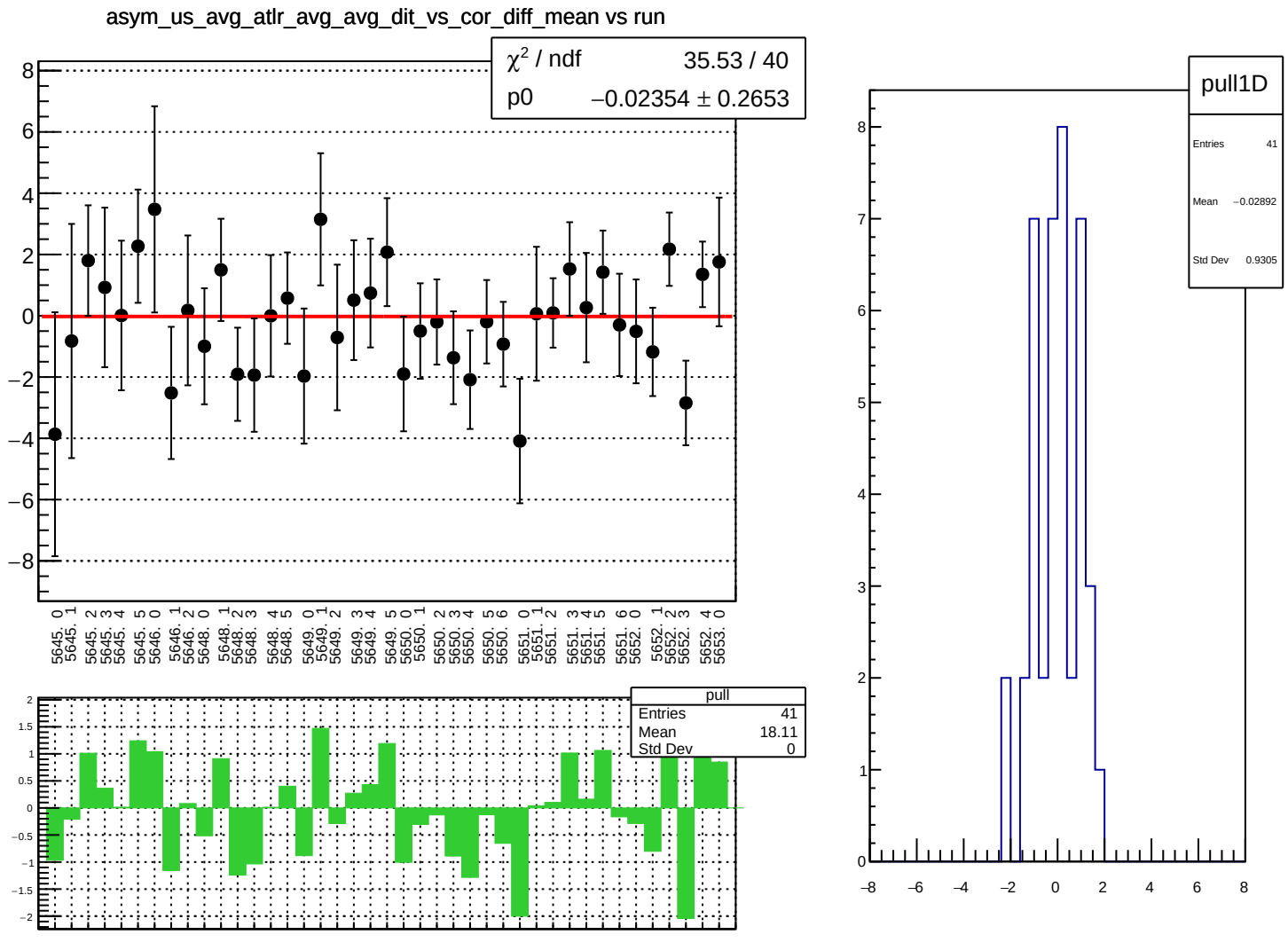

pull1D
Entries 41
Mean −0.02791
Std Dev 0.9644
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

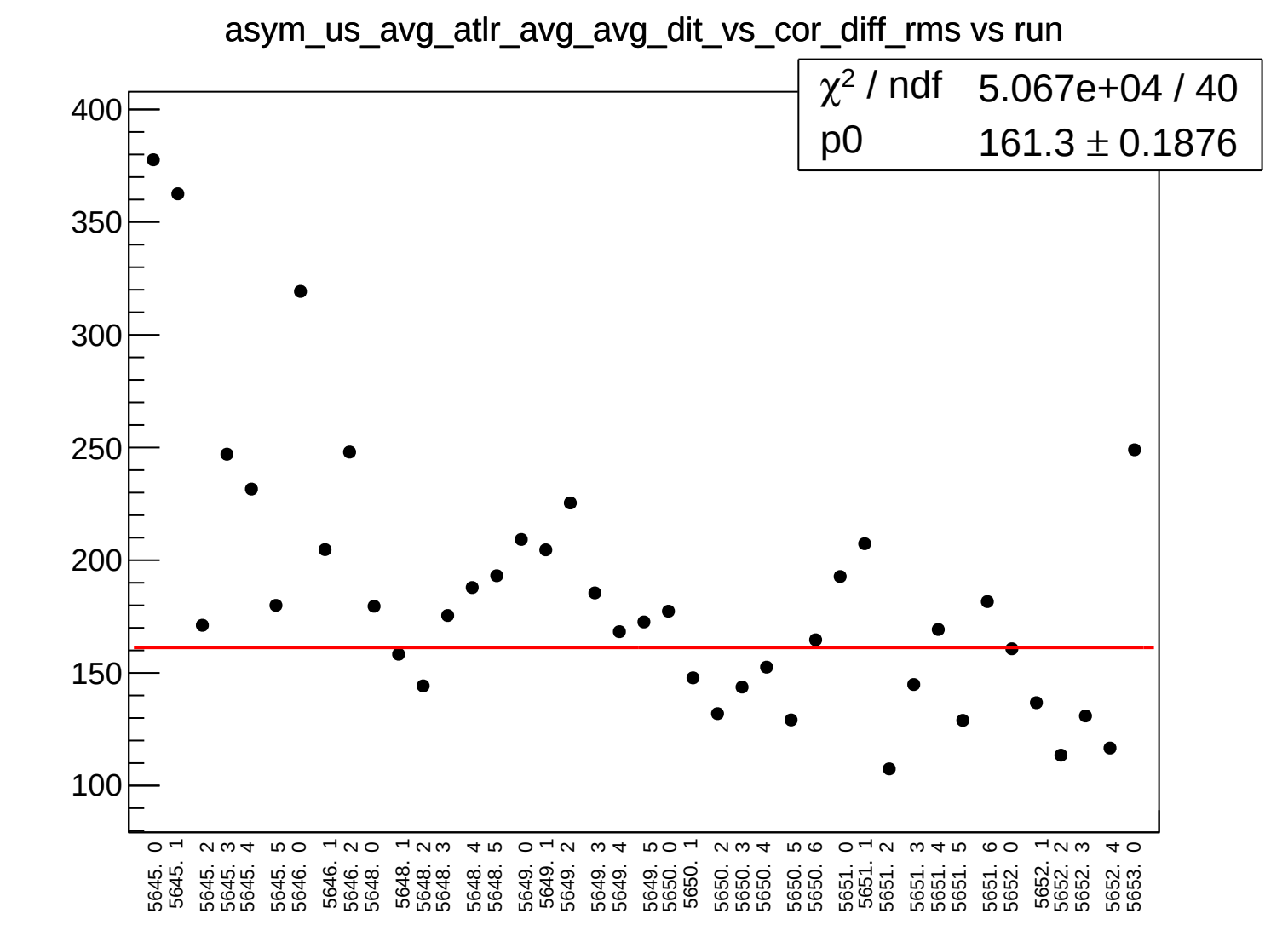

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3355 / 40
p0 5416 ± 6.105
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

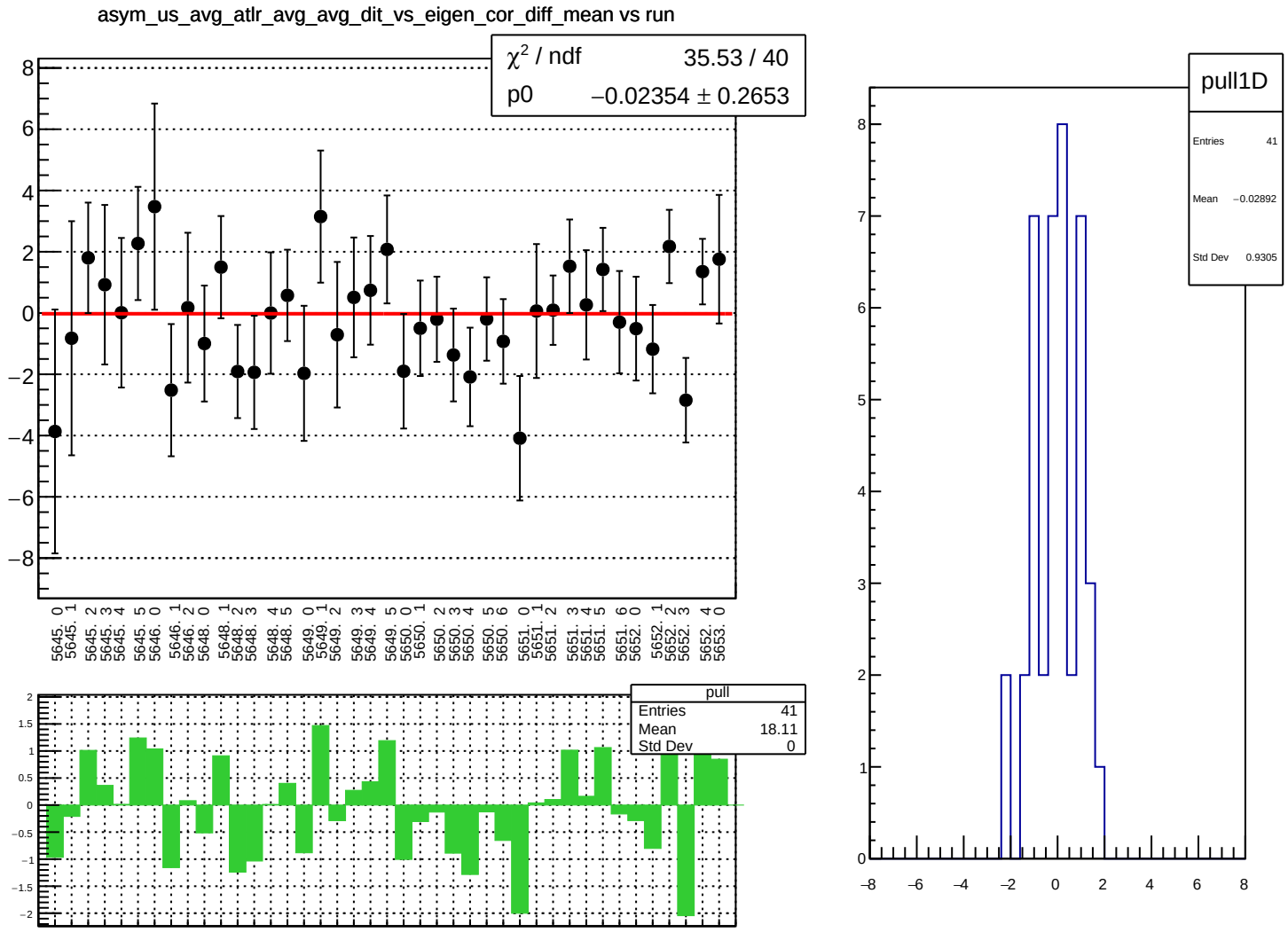

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.52 / 40
p0 −6.23e−13 ± 5.483e−13
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 29.52
Std Dev 8.89
1.5
1
0.5
0
−0.5
−1

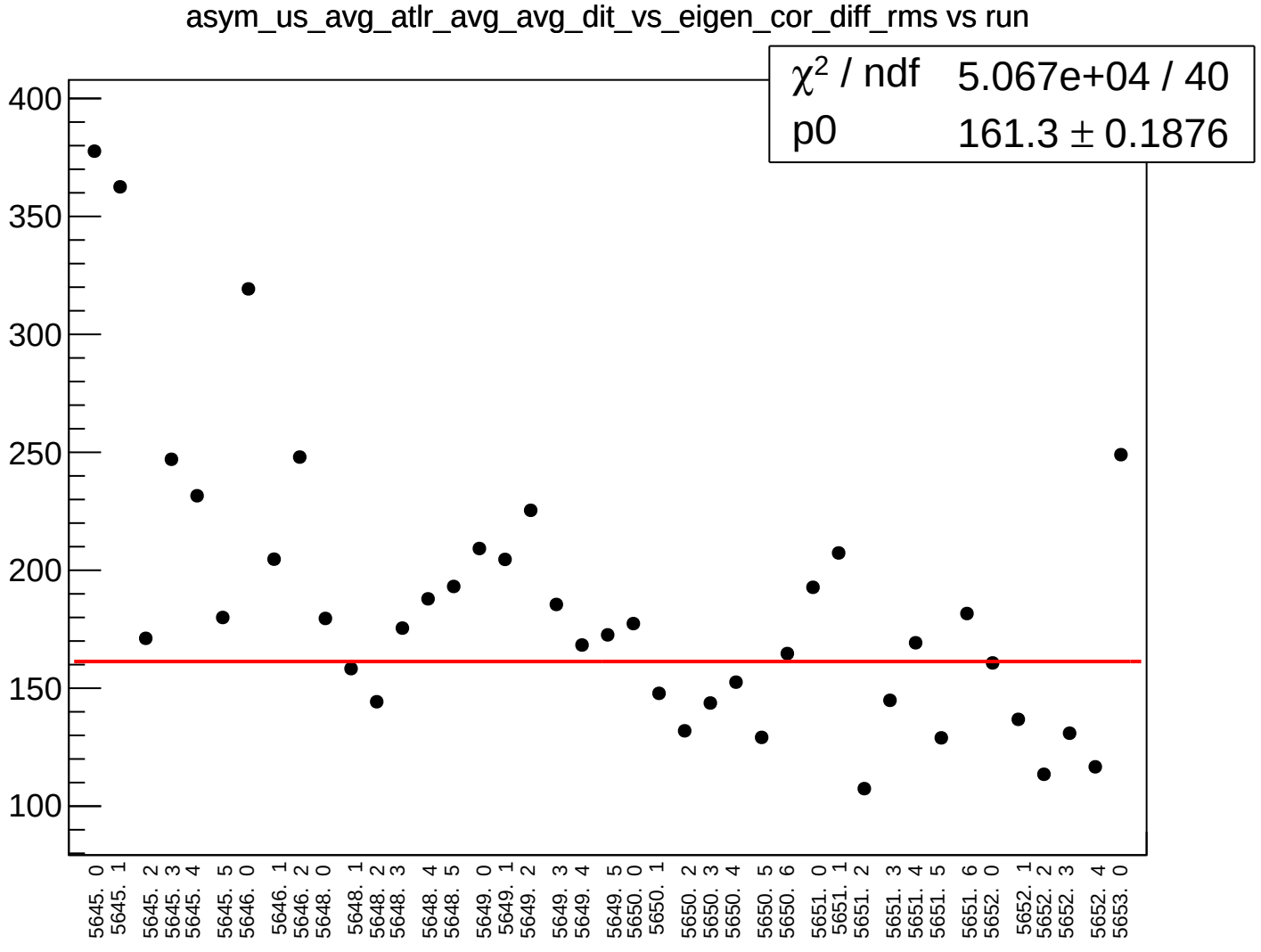

pull1D
Entries 41
Mean −0.1071
Std Dev 0.7166
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

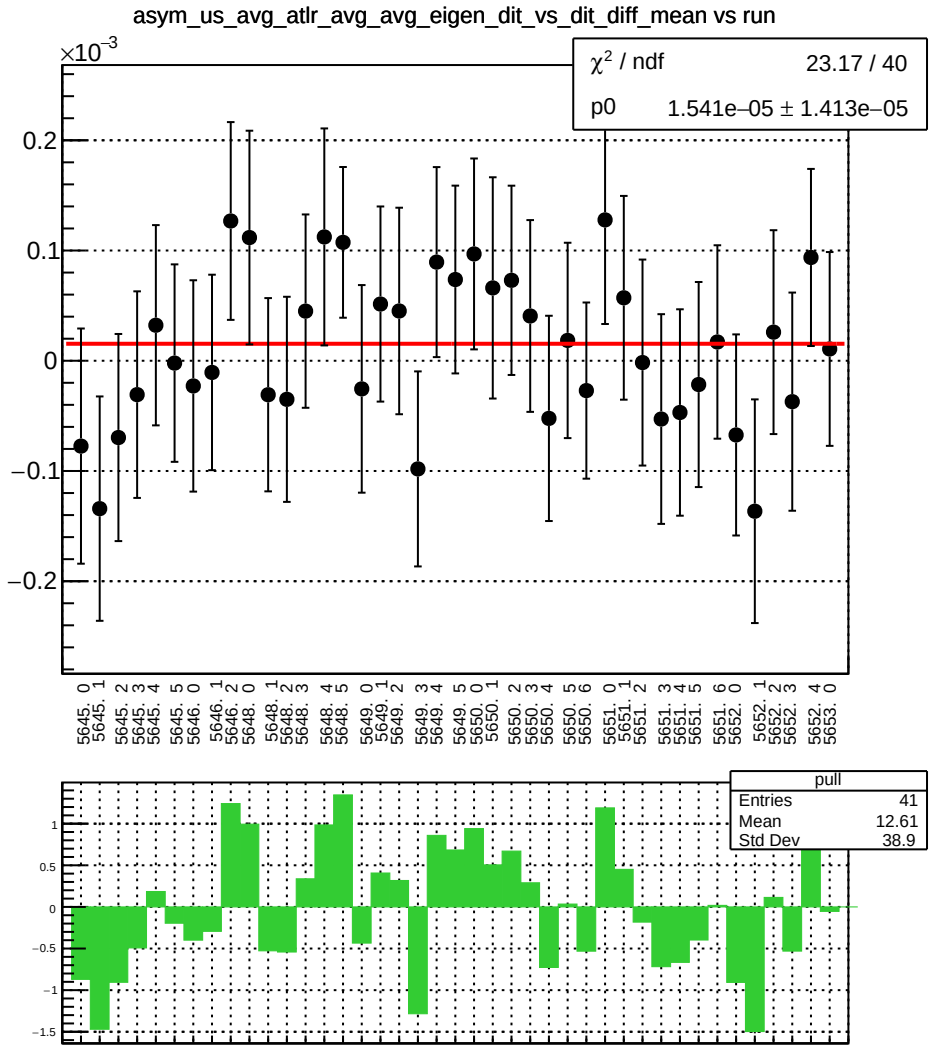

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.643e+05 / 40
p0 2.531e−10 ± 3.877e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

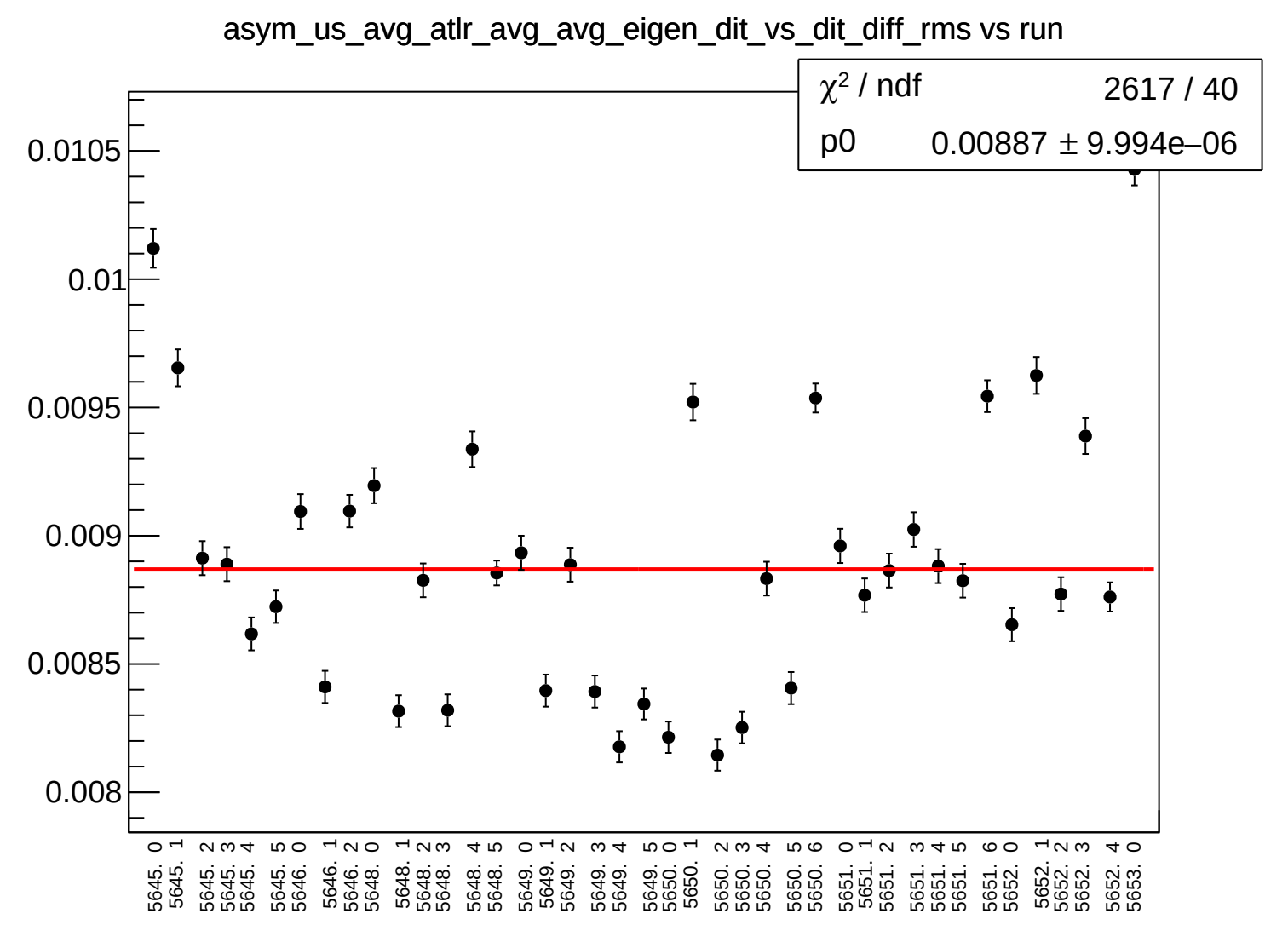

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.53 / 40
p0 −0.02354 ± 0.2653
pull
Entries 41
Mean 18.11
Std Dev 0
pull1D
Entries 41
Mean −0.02892
Std Dev 0.9305

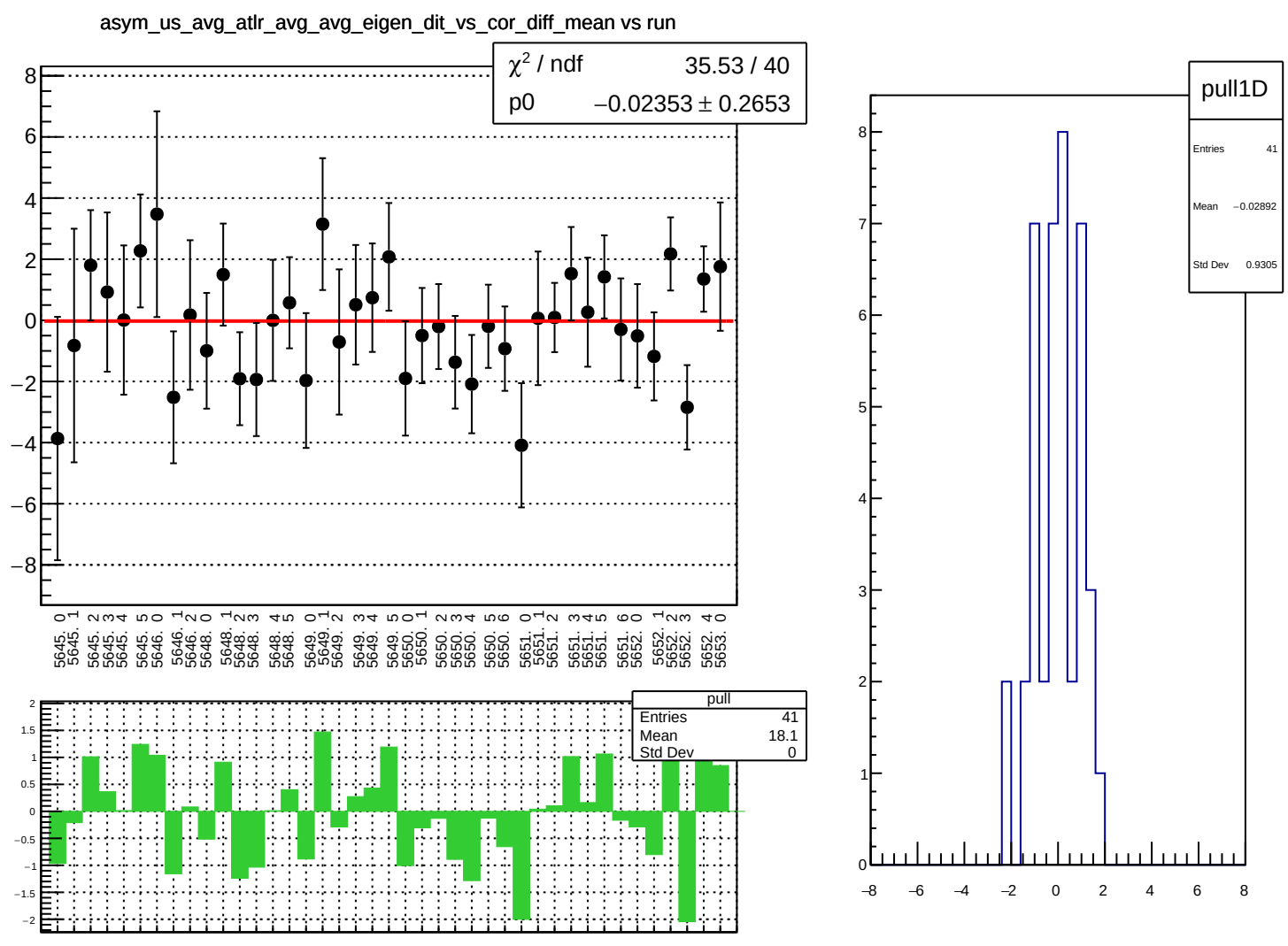

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 40
p0 161.3 ± 0.1876
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

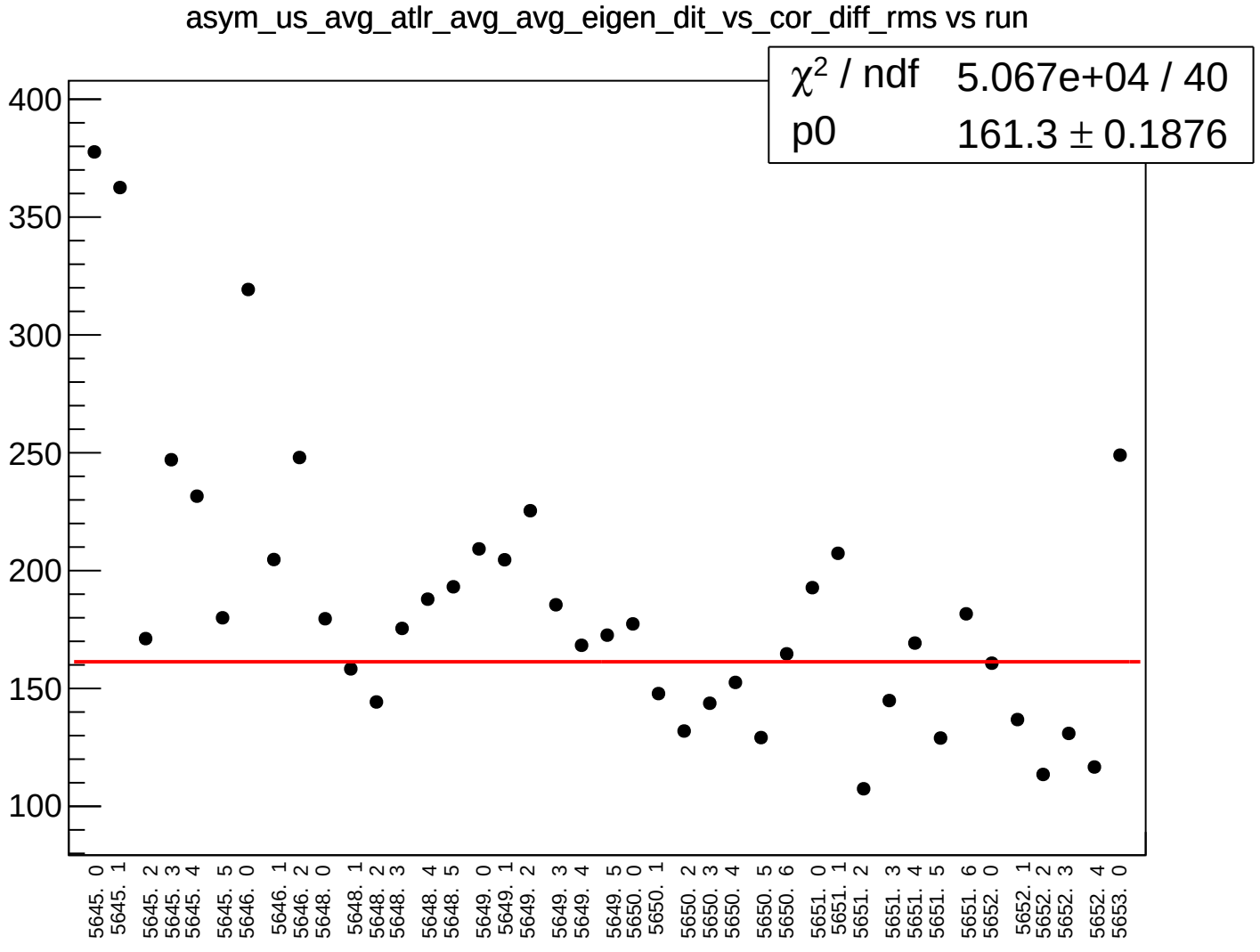

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.53 / 40
p0 −0.02354 ± 0.2653
pull
Entries 41
Mean 18.11
Std Dev 0
pull1D
Entries 41
Mean −0.02892
Std Dev 0.9305

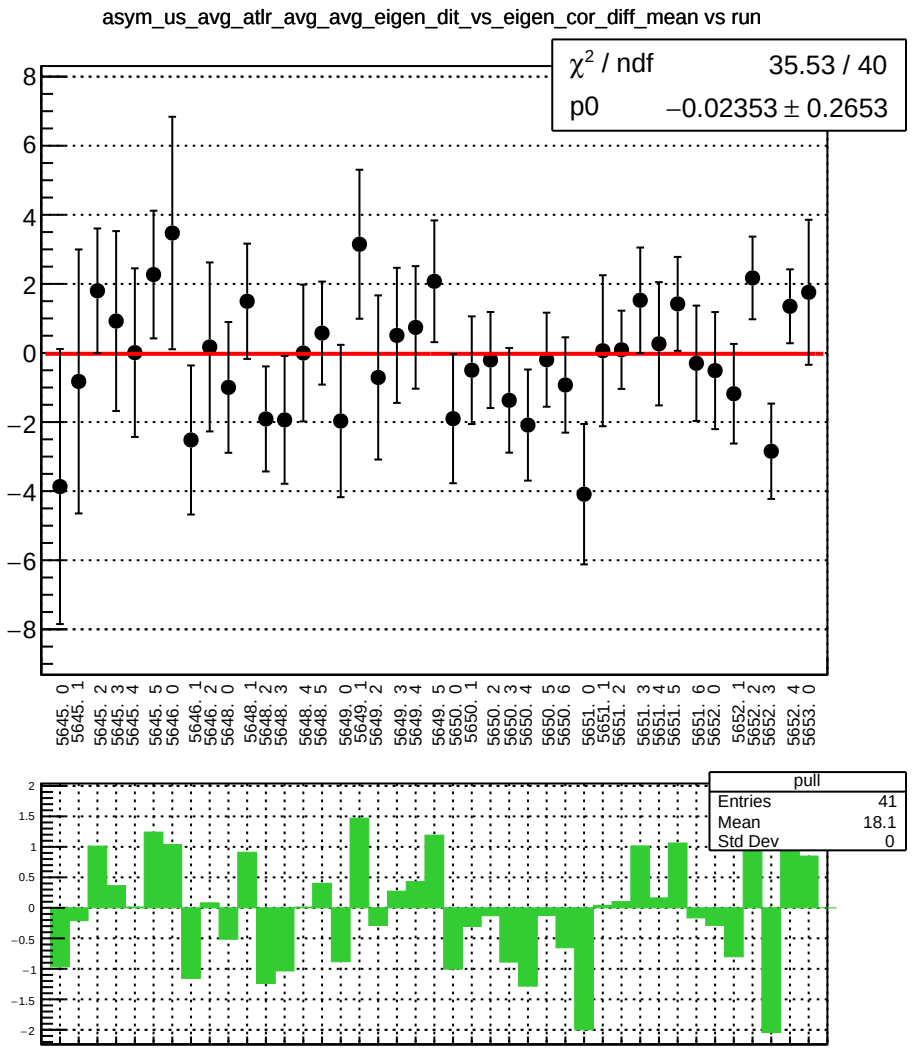

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 40
p0 161.3 ± 0.1876
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

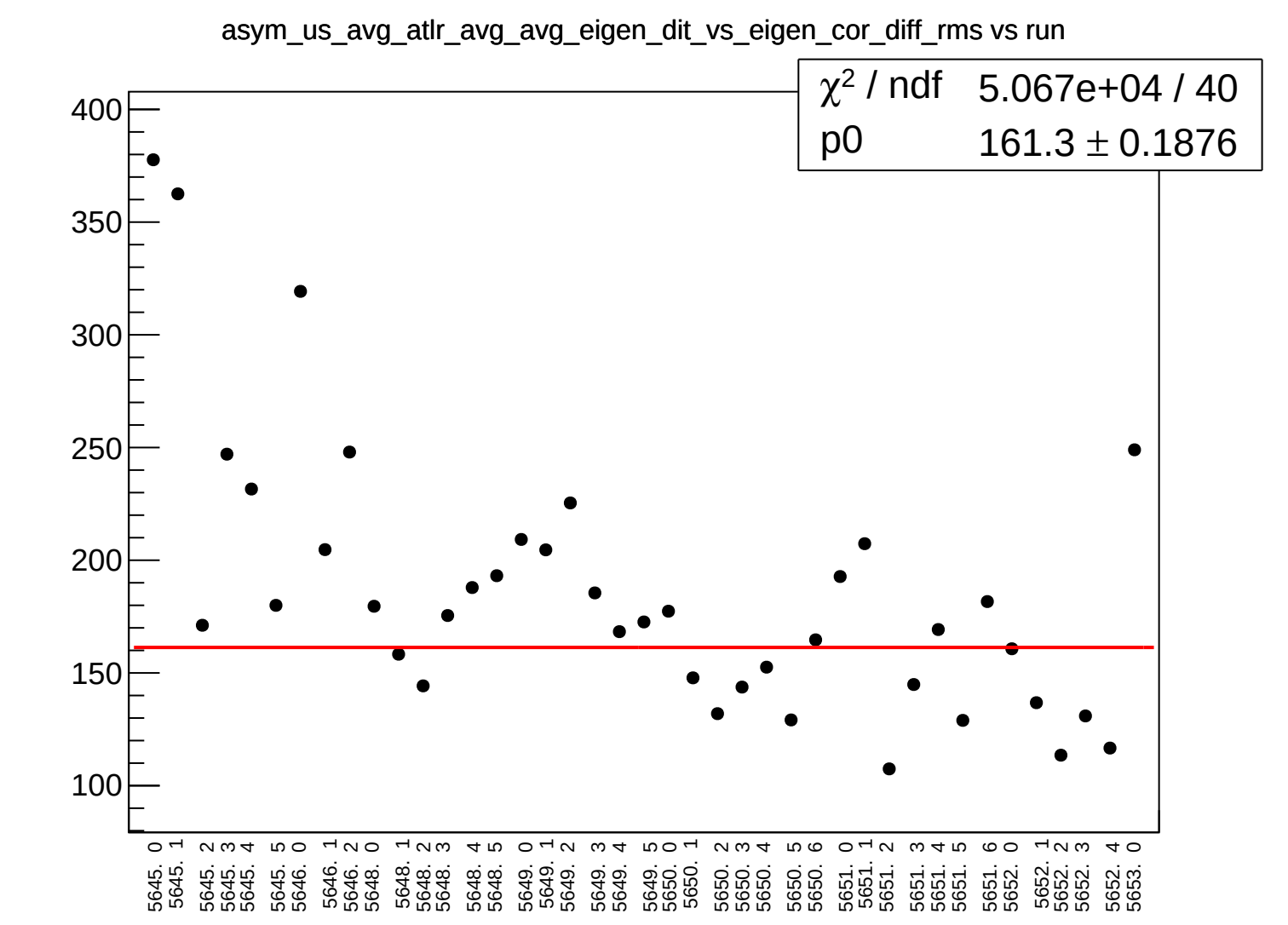

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 23.17 / 40
p0 1.541e−05 ± 1.413e−05
0.2
0.1
0
−0.1
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.61
Std Dev 38.9
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.02633
Std Dev 0.7513
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

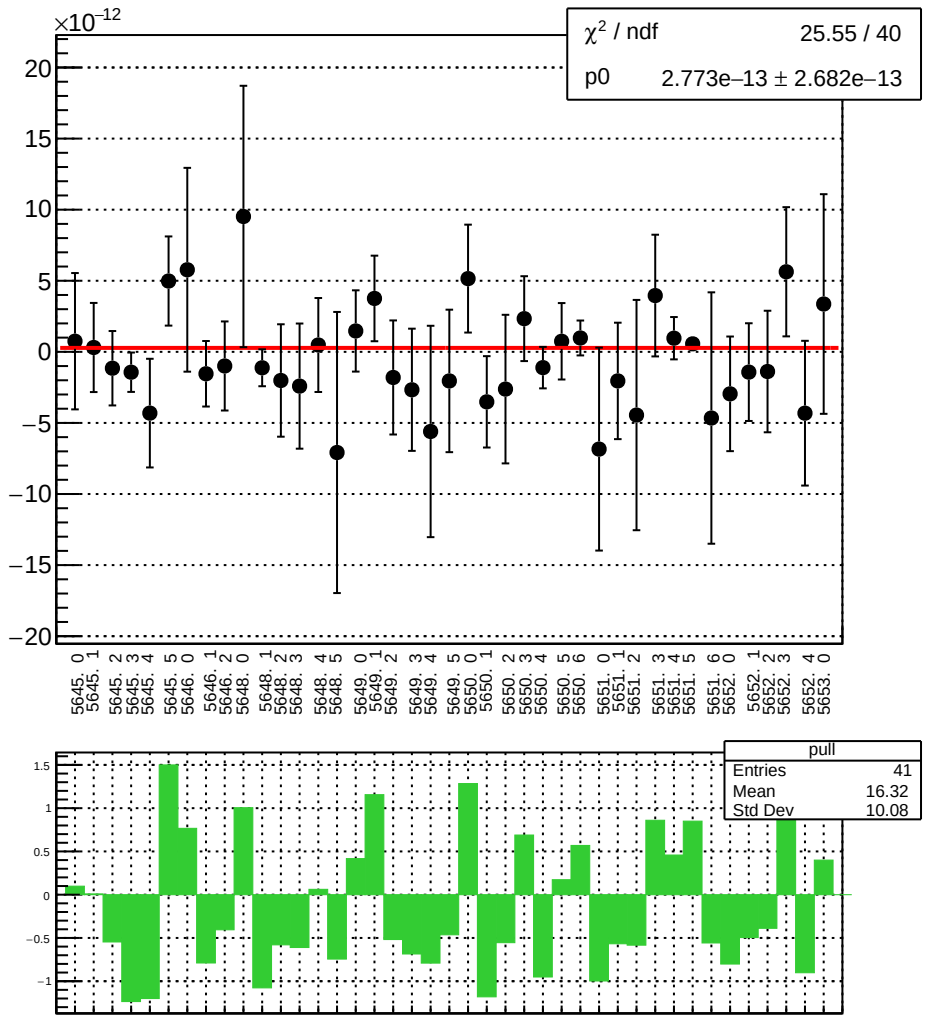

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2617 / 40
p0 0.00887 ± 9.994e–06
0.0105
0.01
0.0095
0.009
0.0085
0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

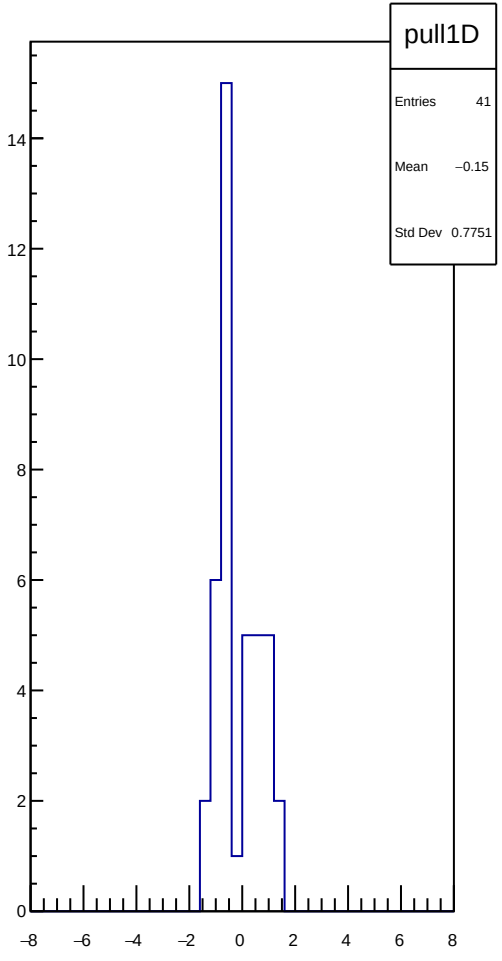

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.53 / 40
p0 −0.02353 ± 0.2653
pull
Entries 41
Mean 18.1
Std Dev 0
pull1D
Entries 41
Mean −0.02892
Std Dev 0.9305

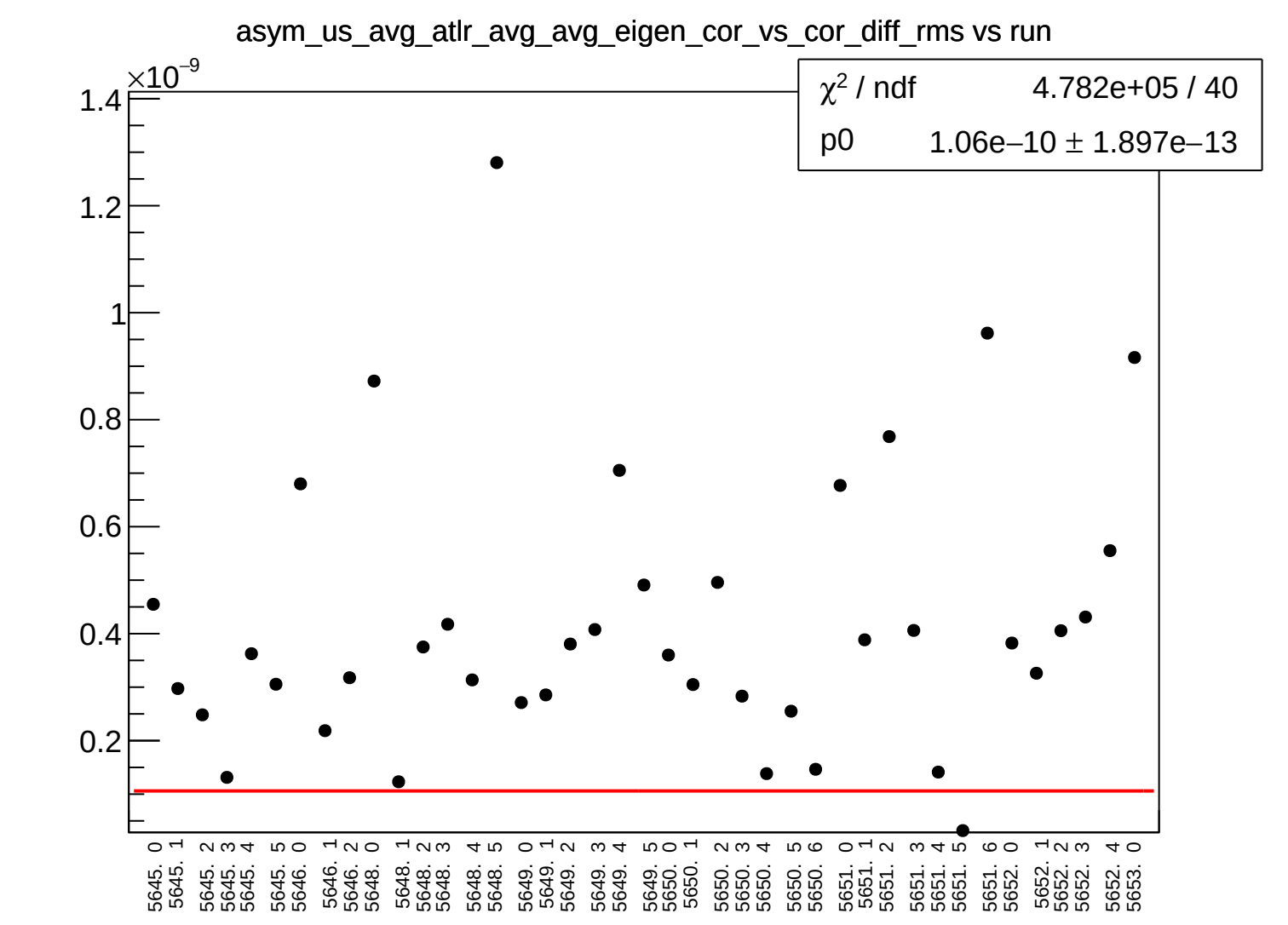

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 40
p0 161.3 ± 0.1876
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

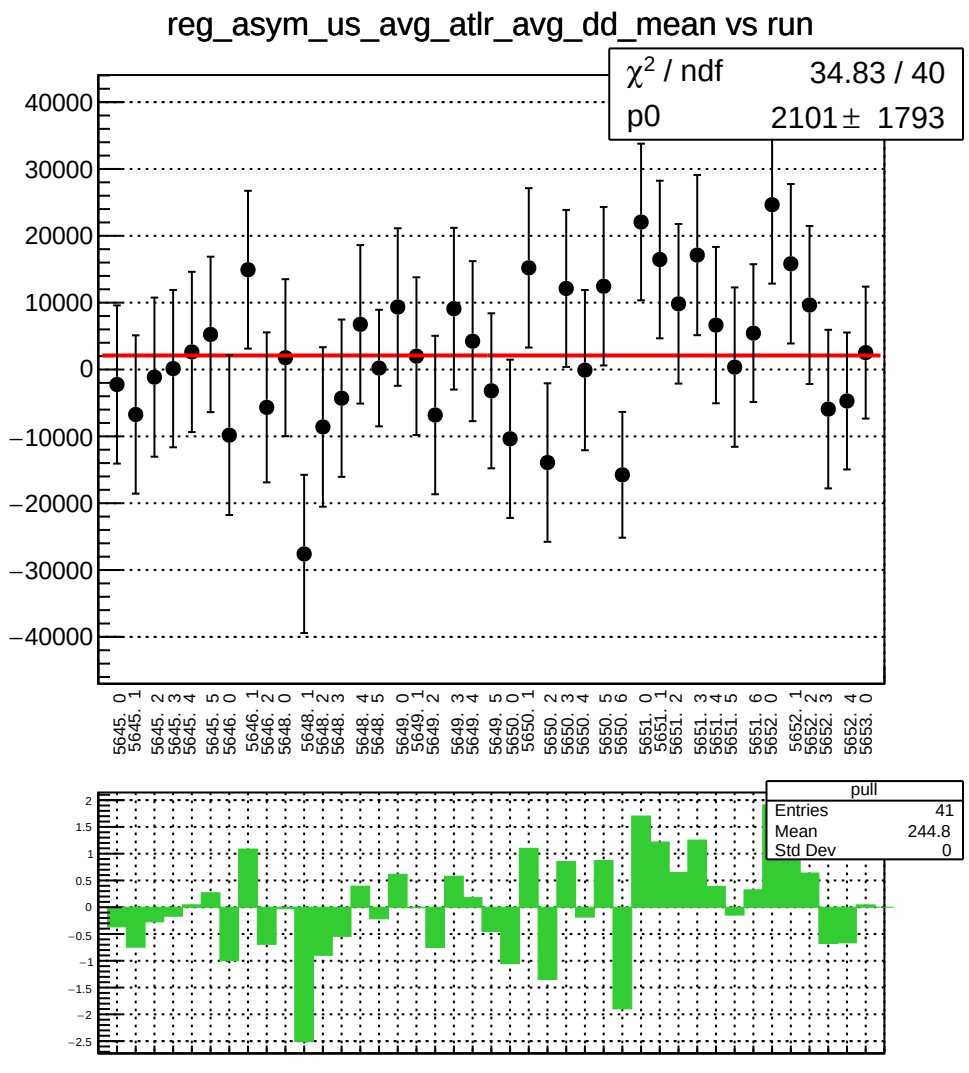

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.53 / 40
p0 −0.02353 ± 0.2653
pull
Entries 41
Mean 18.1
Std Dev 0
pull1D
Entries 41
Mean −0.02892
Std Dev 0.9305

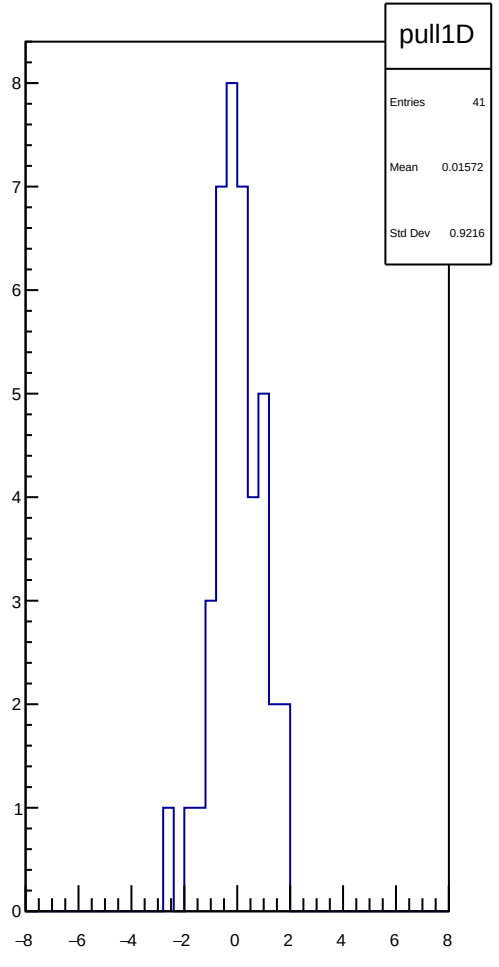

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 40
p0 161.3 ± 0.1876
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

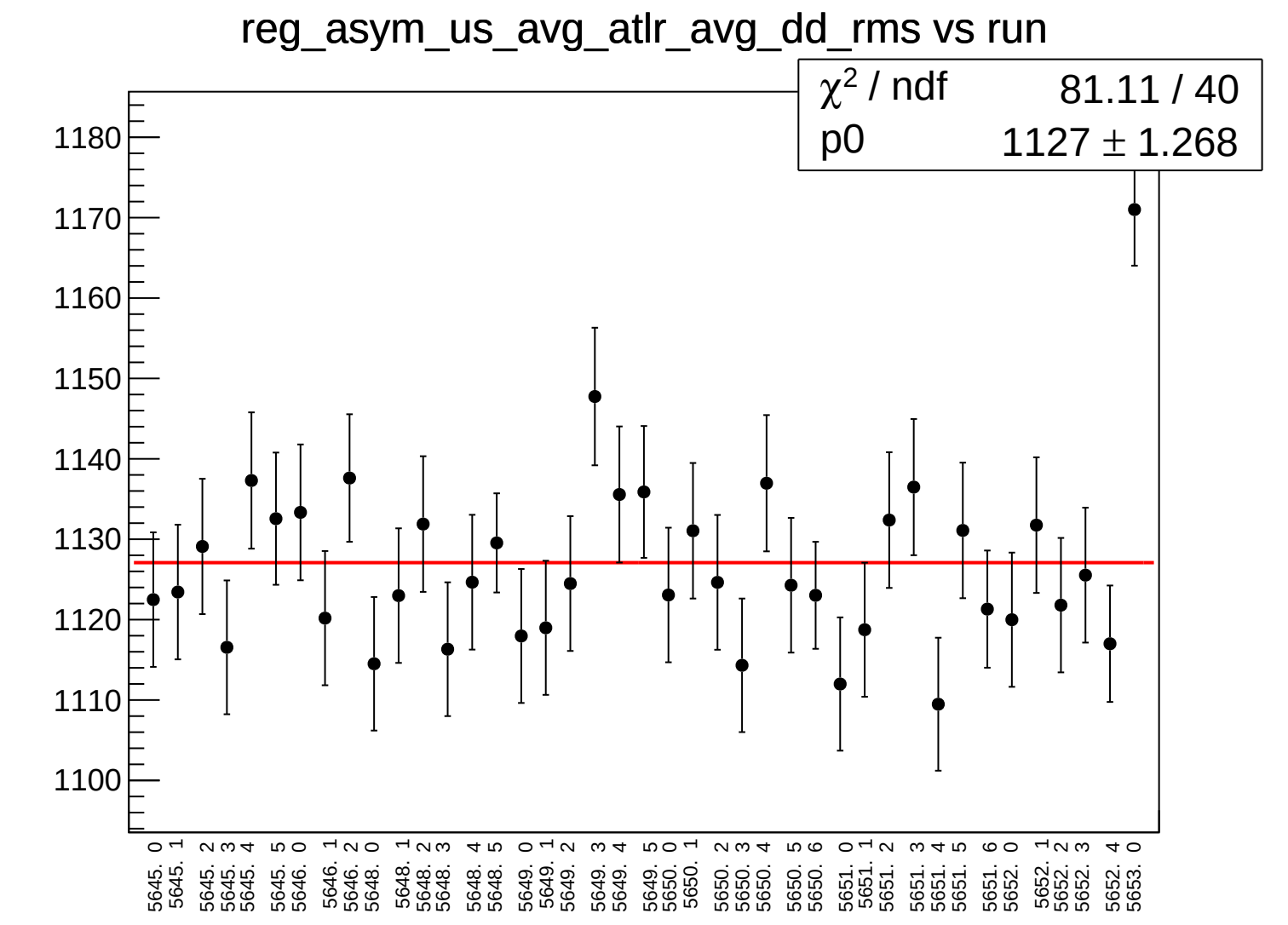

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.55 / 40
p0 2.773e−13 ± 2.682e−13
pull
Entries 41
Mean 16.32
Std Dev 10.08

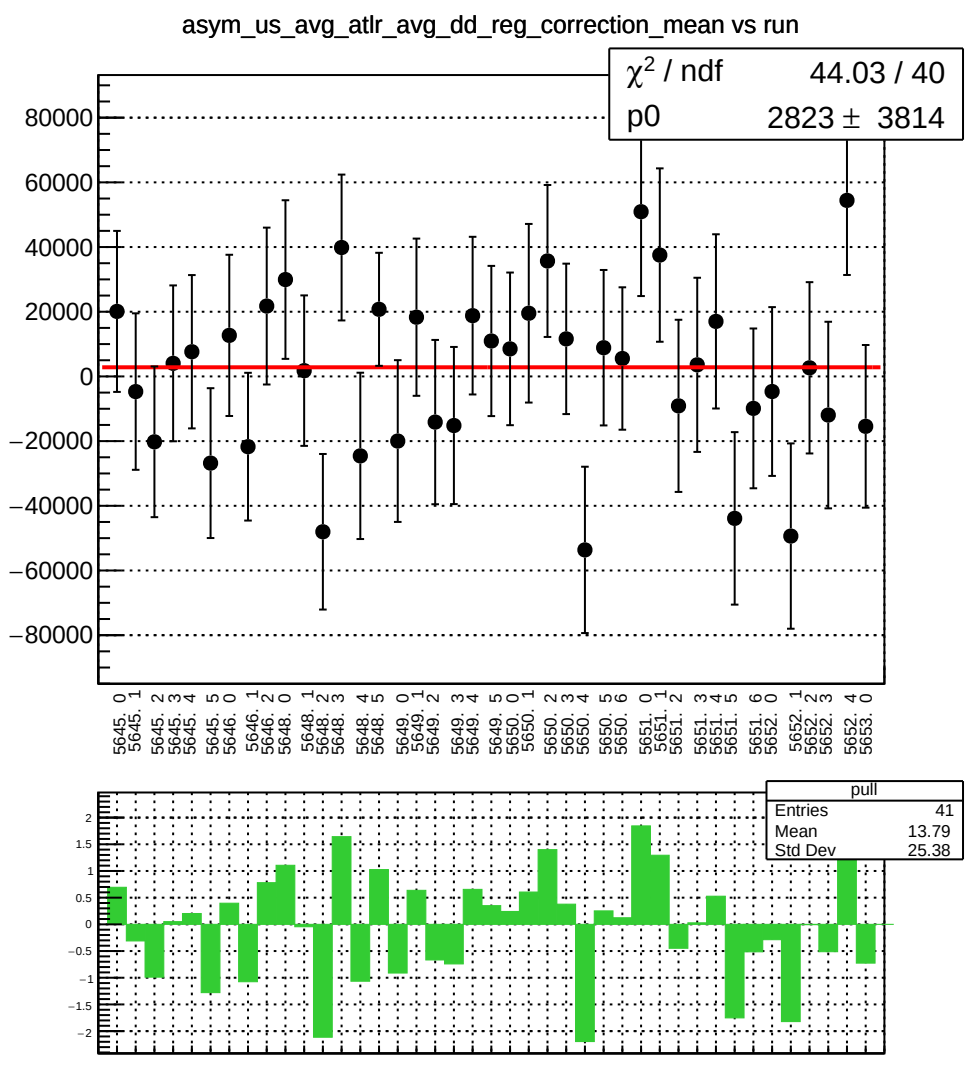

pull1D
Entries 41
Mean −0.15
Std Dev 0.7751

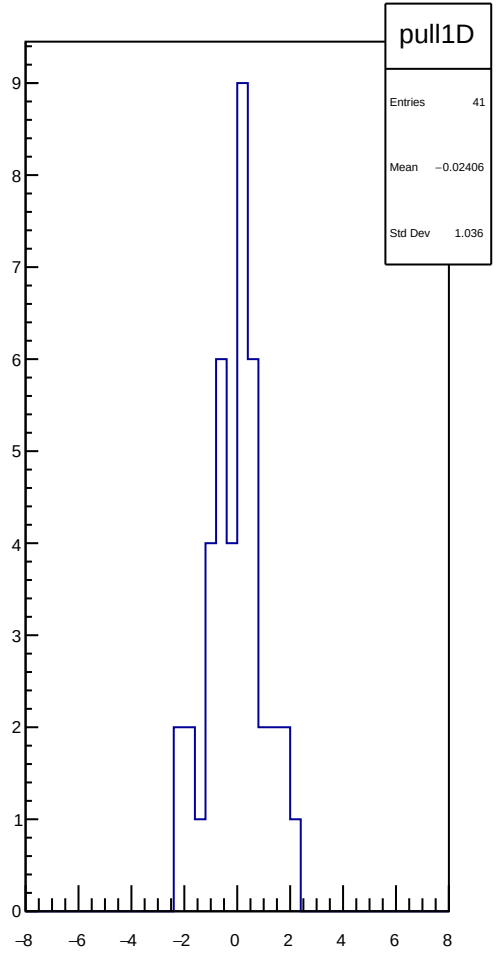

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.782e+05 / 40
p0 1.06e−10 ± 1.897e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

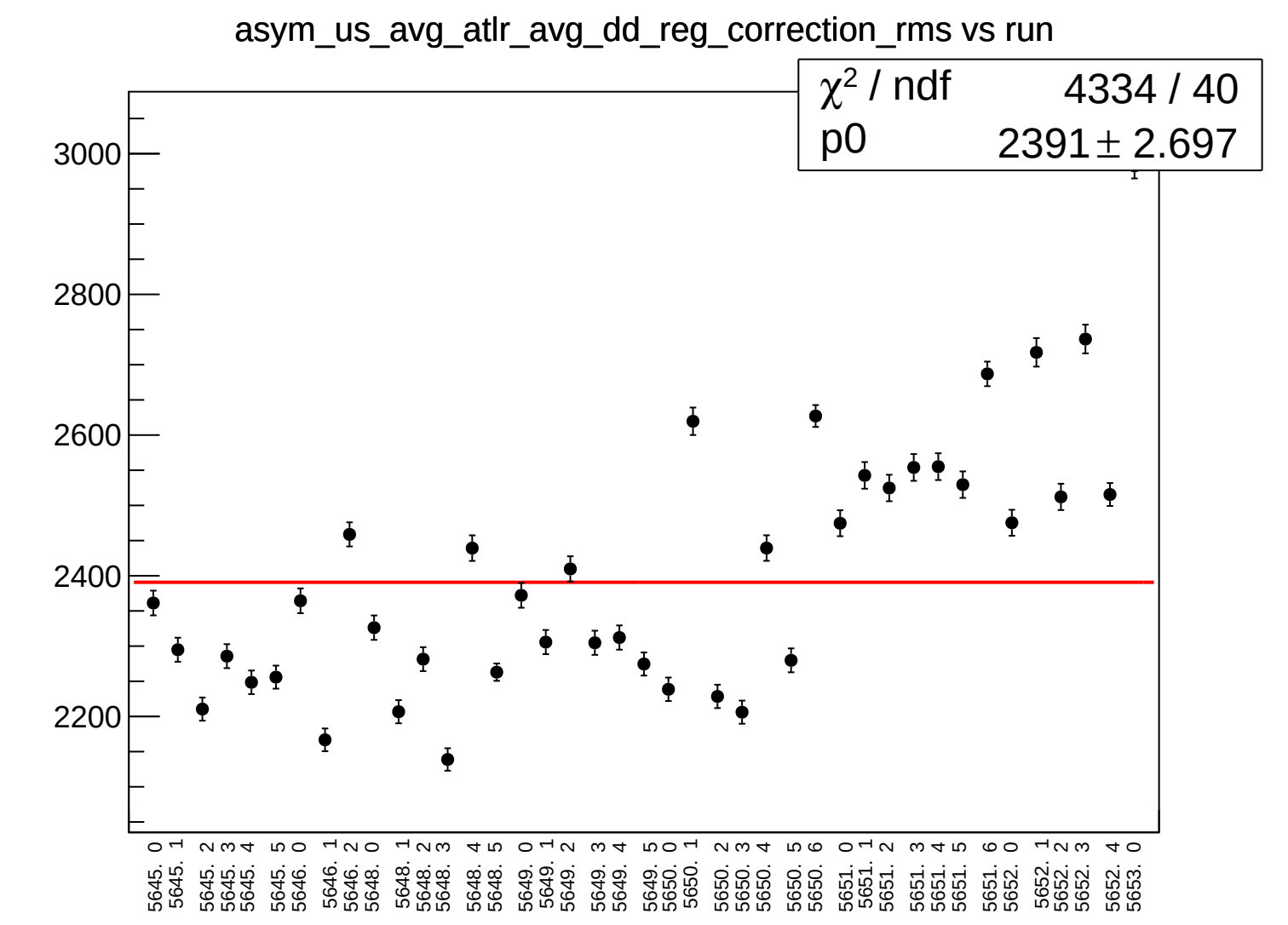

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 34.83 / 40
p0 2101 ± 1793
pull
Entries 41
Mean 244.8
Std Dev 0

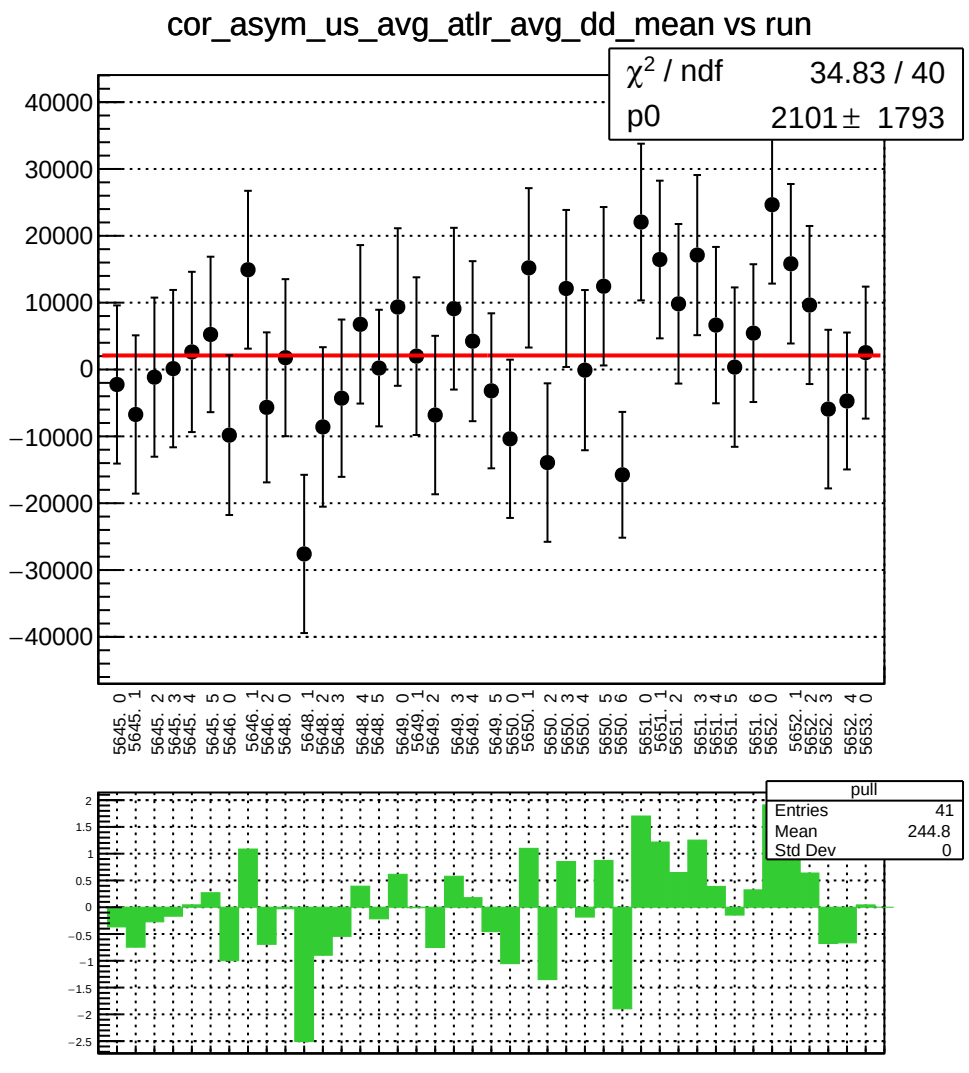

pull1D
Entries 41
Mean 0.01572
Std Dev 0.9216

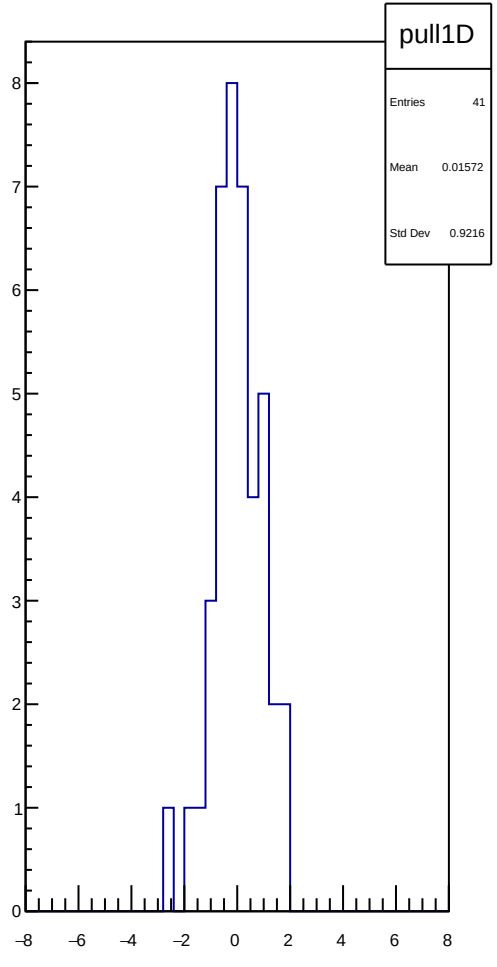

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 81.11 / 40
p0 1127 ± 1.268
1180
1170
1160
1150
1140
1130
1120
1110
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

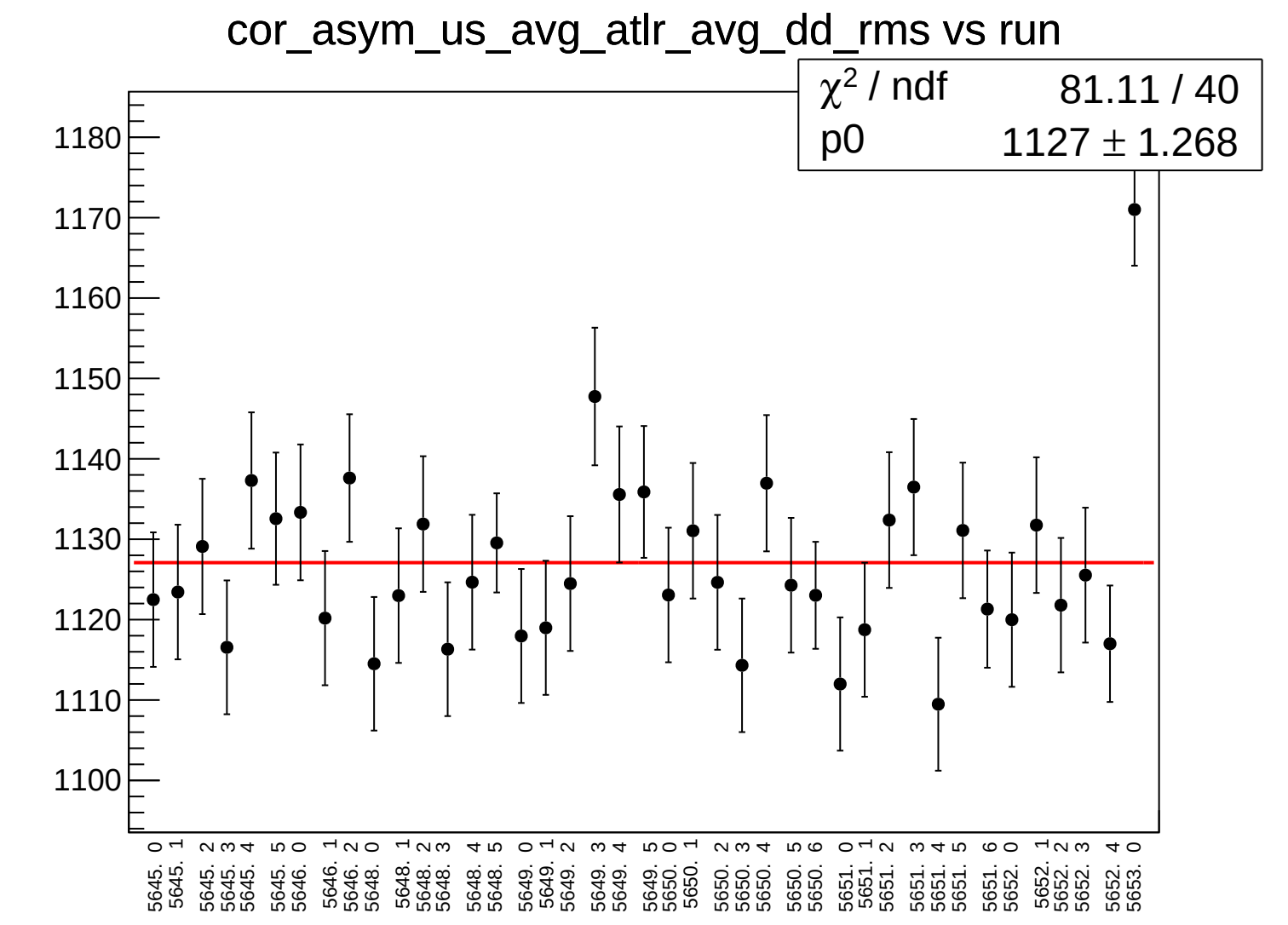

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 44.03 / 40
p0 2823 ± 3814
pull
Entries 41
Mean 13.79
Std Dev 25.38

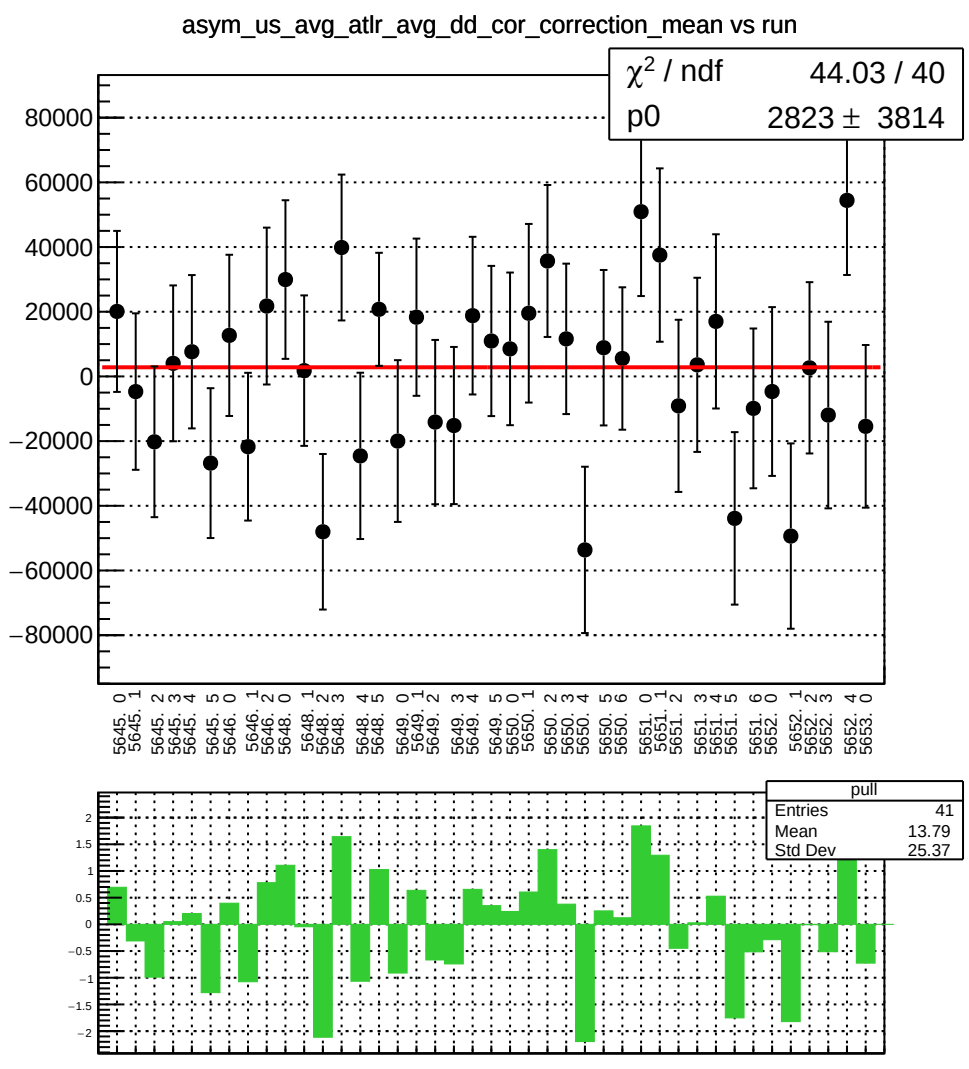

pull1D
Entries 41
Mean −0.02406
Std Dev 1.036

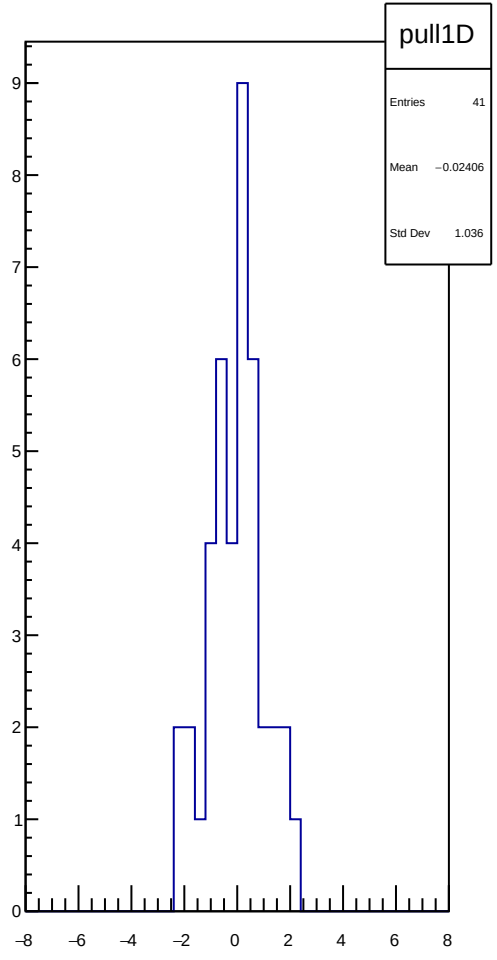

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4334 / 40
p0 2391 ± 2.697
3000
2800
2600
2400
2200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

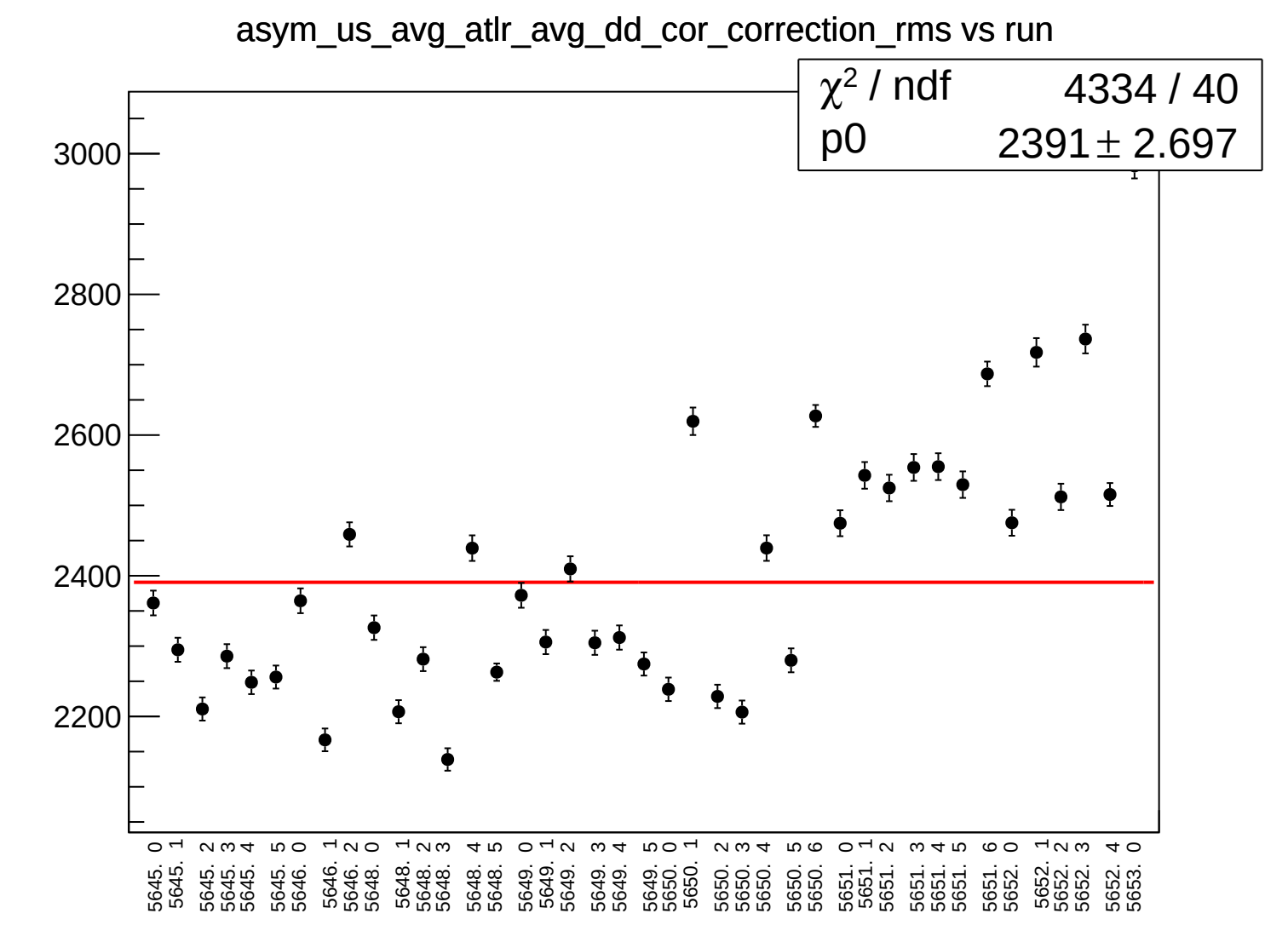

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 34.83 / 40
p0 2101 ± 1793
pull
Entries 41
Mean 244.8
Std Dev 0

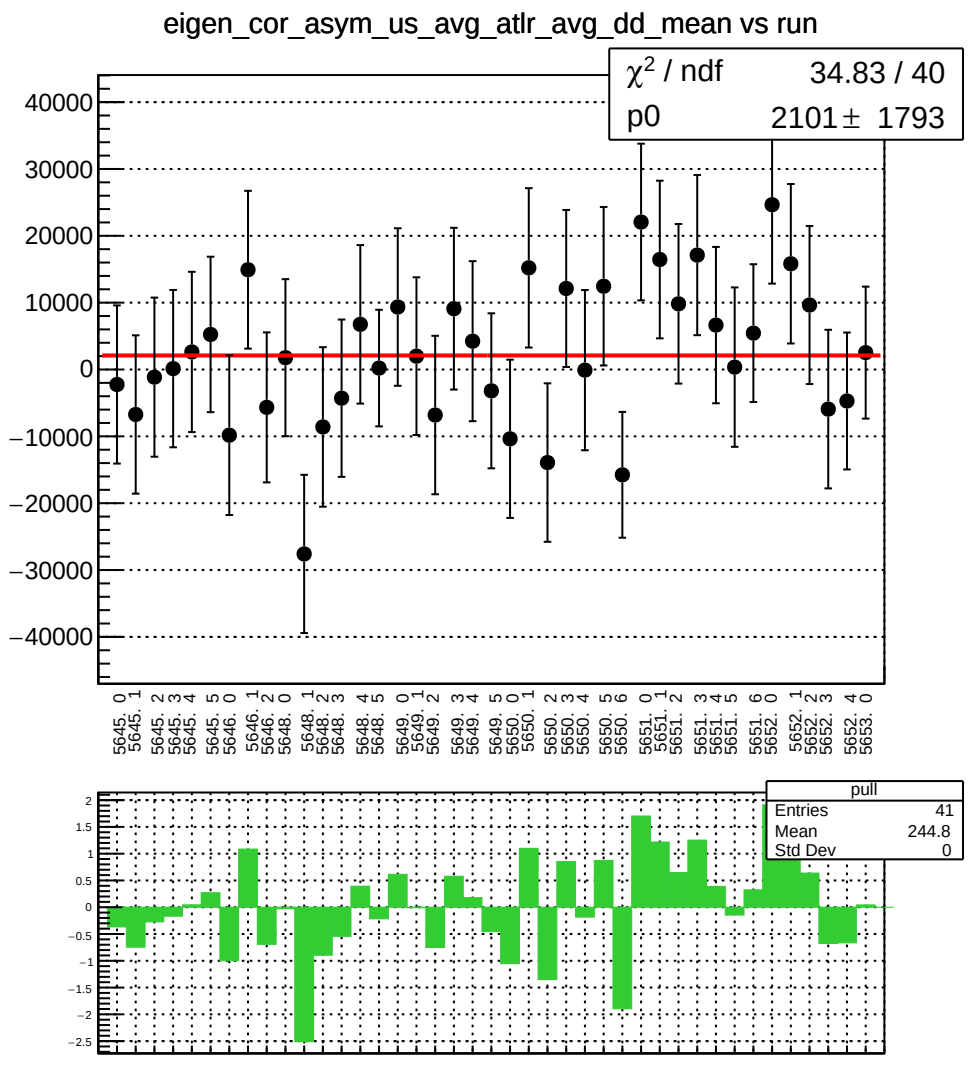

pull1D
Entries 41
Mean 0.01572
Std Dev 0.9216

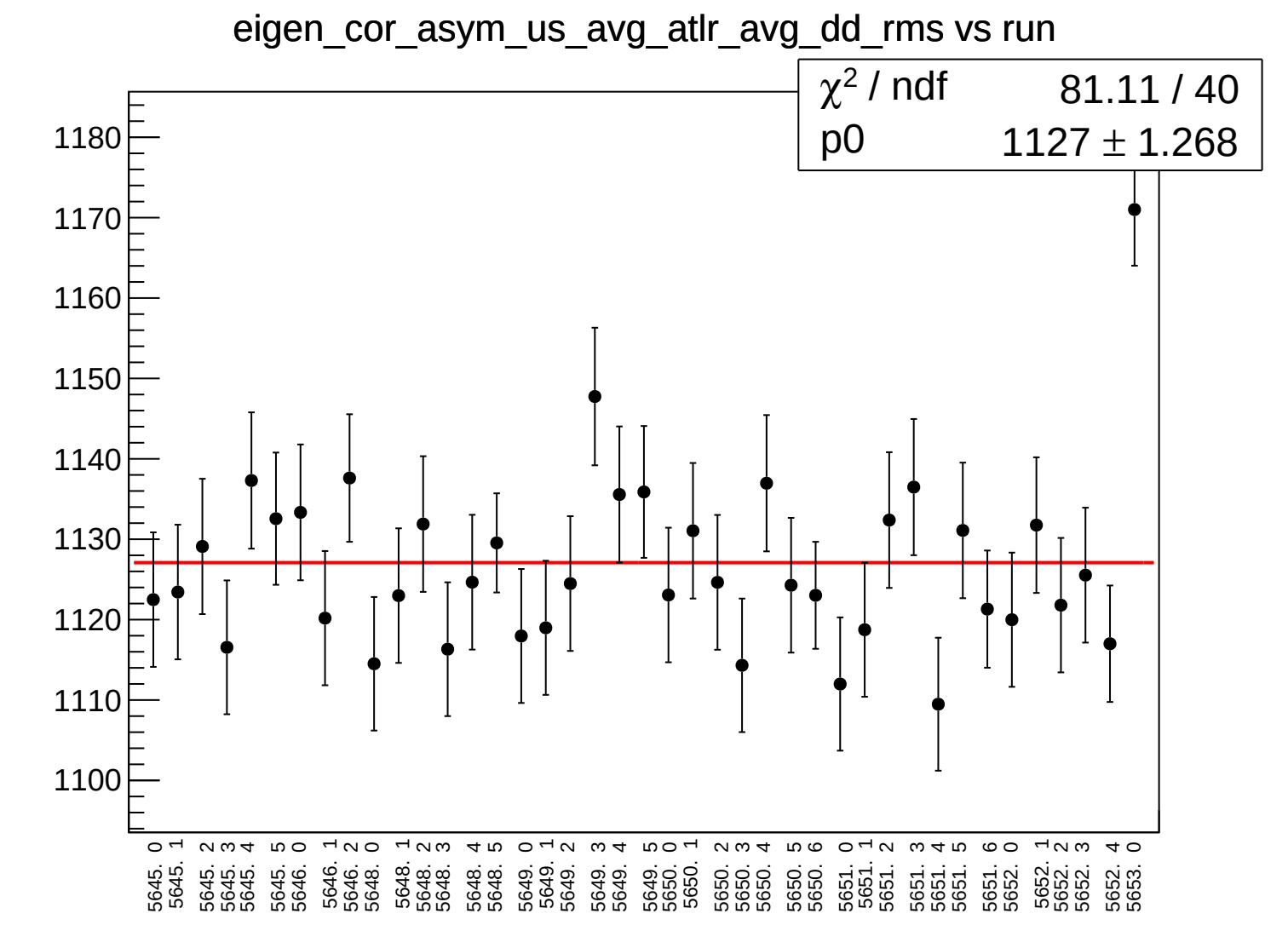

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 81.11 / 40
p0 1127 ± 1.268
1180
1170
1160
1150
1140
1130
1120
1110
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

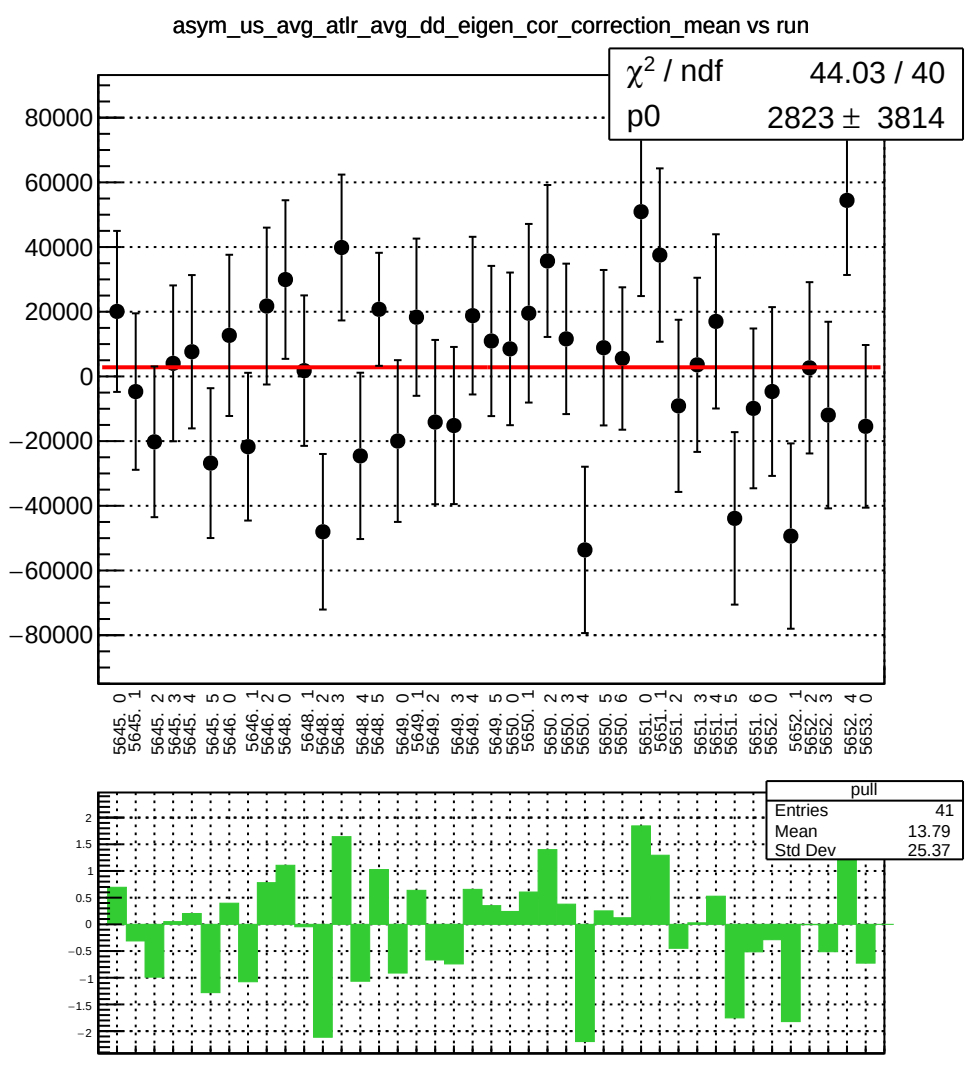

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 44.03 / 40
p0 2823 ± 3814
pull
Entries 41
Mean 13.79
Std Dev 25.37

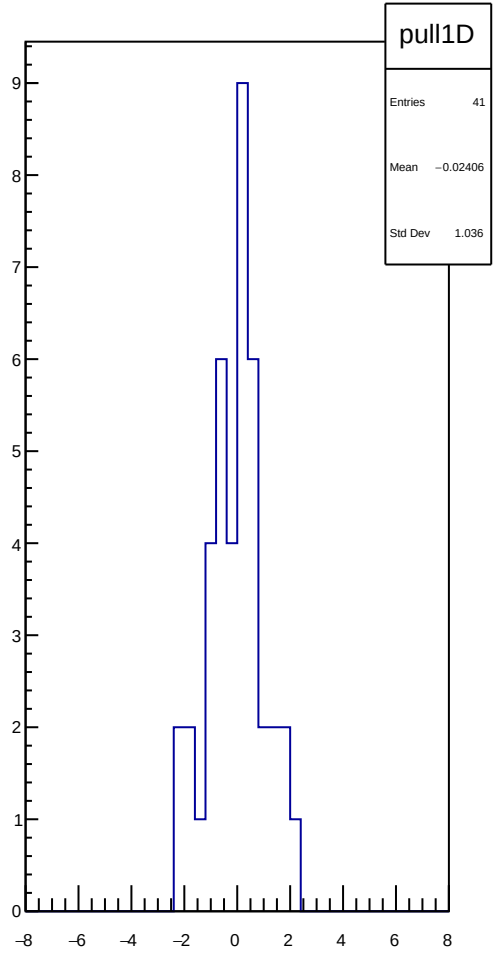

pull1D
Entries 41
Mean −0.02406
Std Dev 1.036

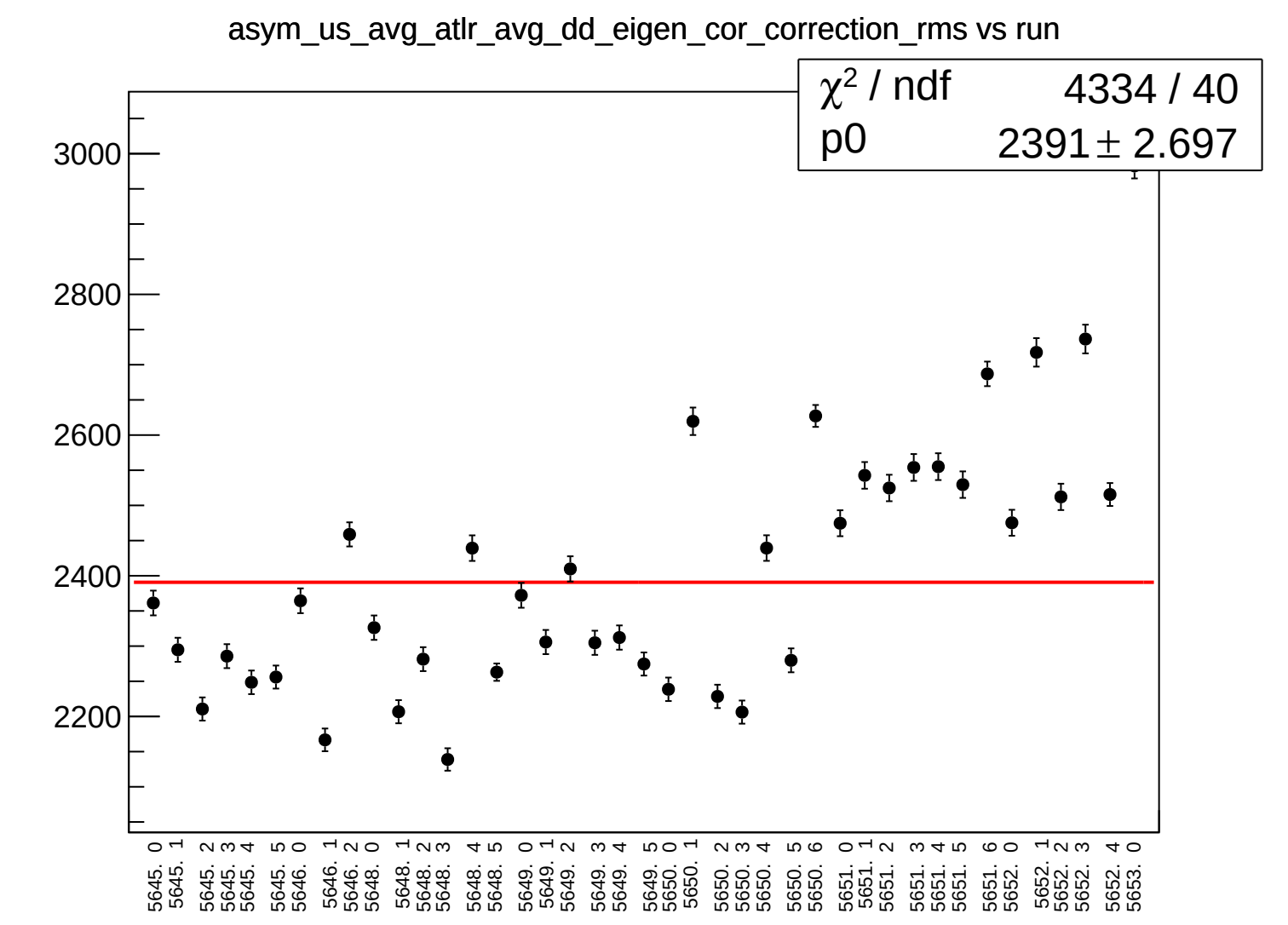

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4334 / 40
p0 2391 ± 2.697
3000
2800
2600
2400
2200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

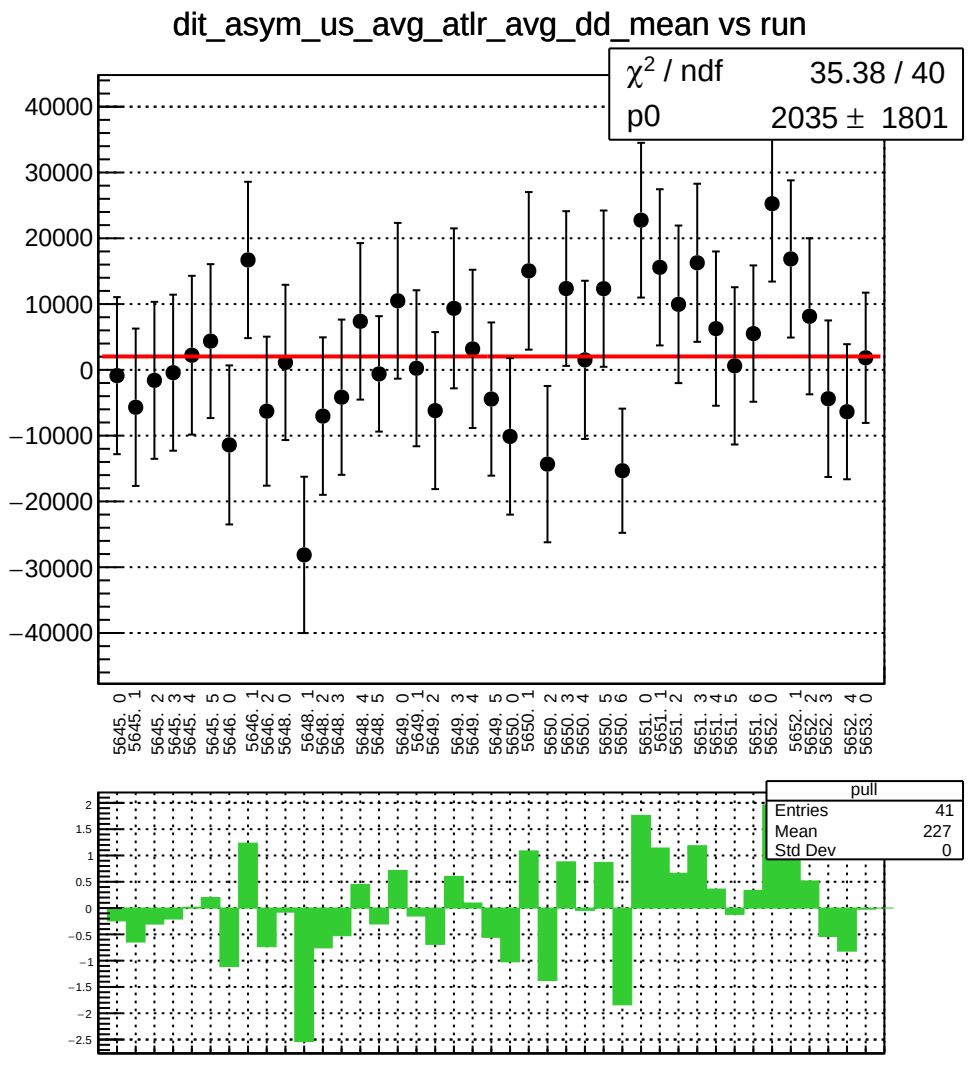

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 34.83 / 40
p0 2101 ± 1793
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 244.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.01572
Std Dev 0.9216
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

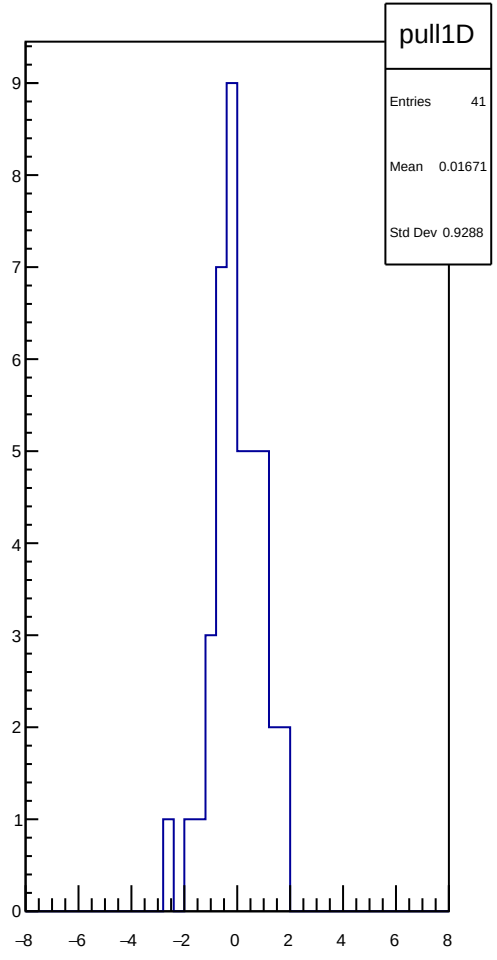

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 81.11 / 40
p0 1127 ± 1.268
1180
1170
1160
1150
1140
1130
1120
1110
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

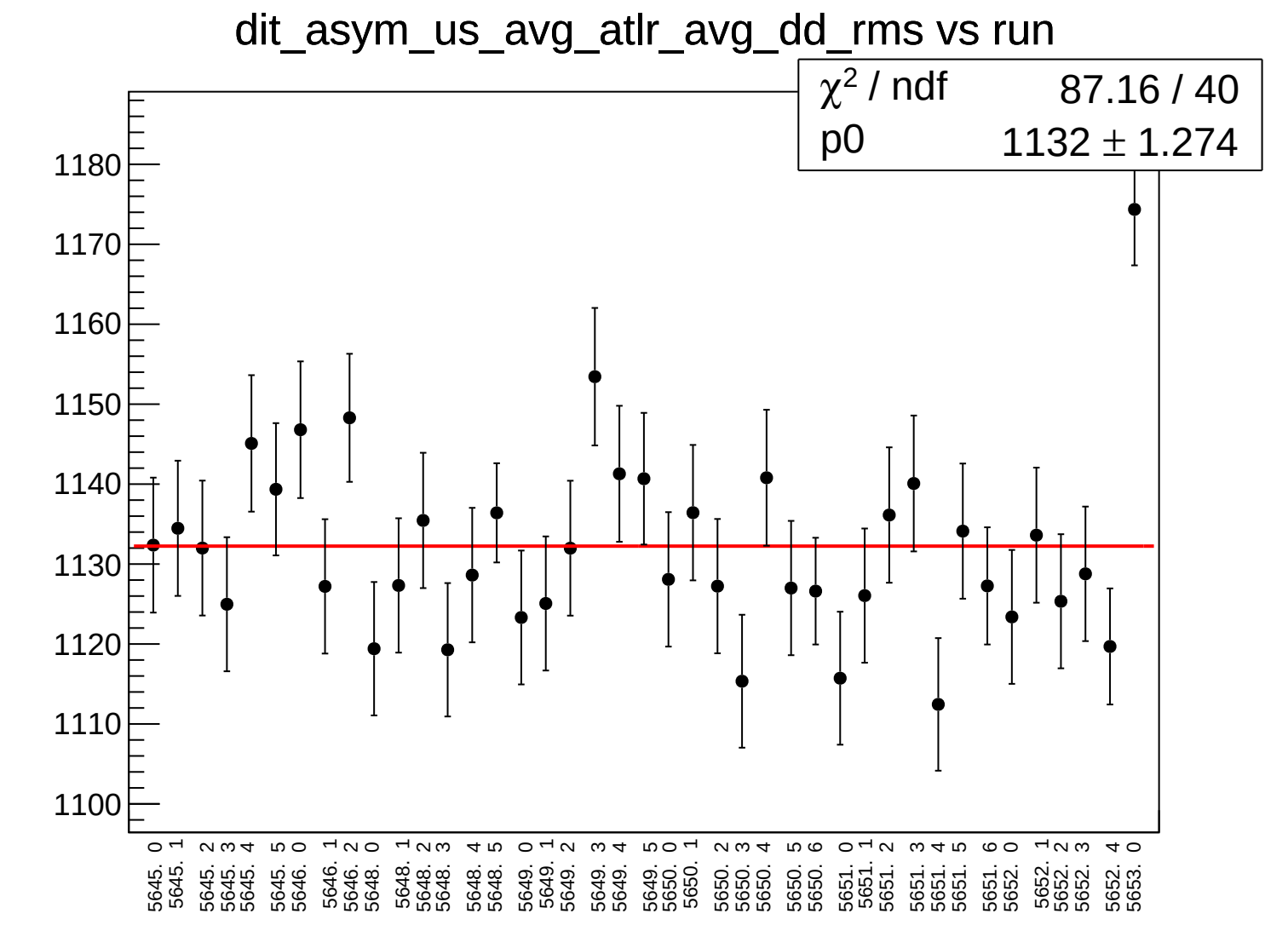

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 44.03 / 40
p0 2823 ± 3814
pull
Entries 41
Mean 13.79
Std Dev 25.37

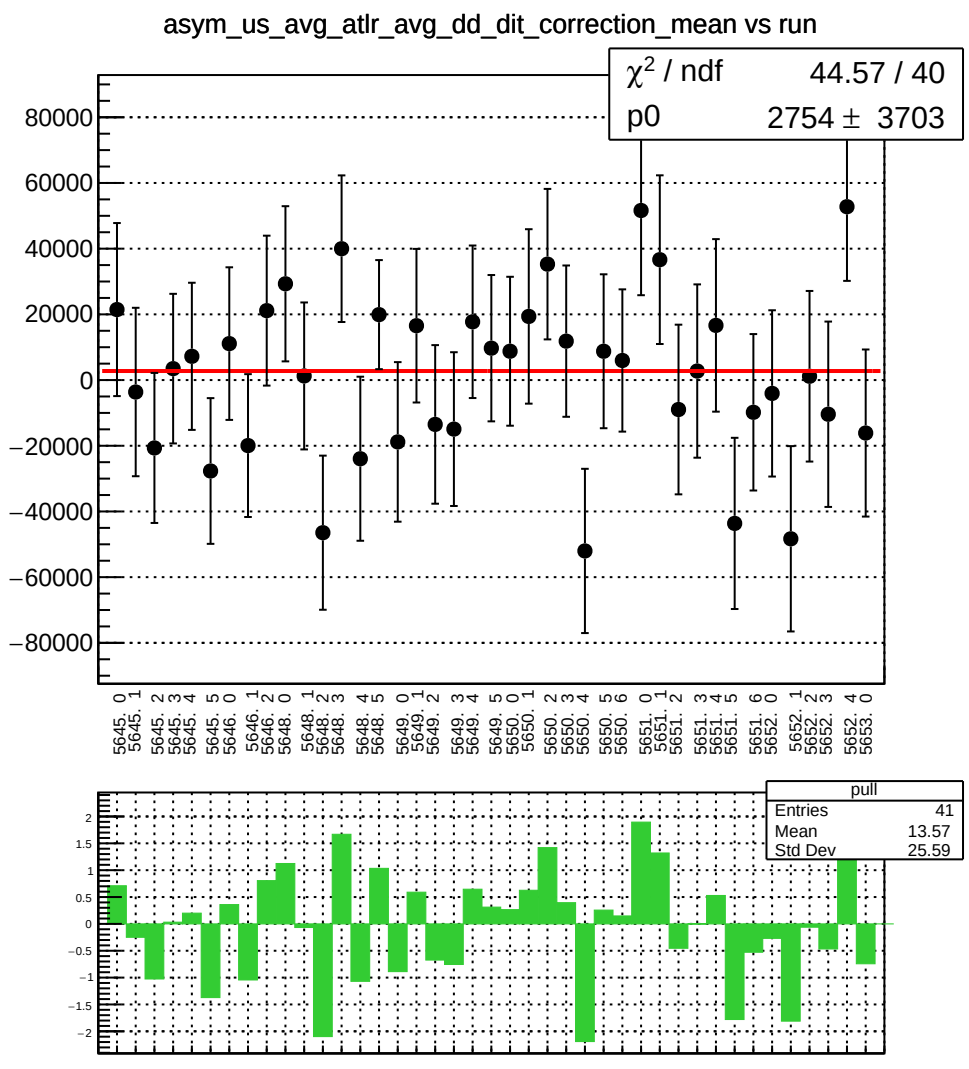

pull1D
Entries 41
Mean −0.02406
Std Dev 1.036

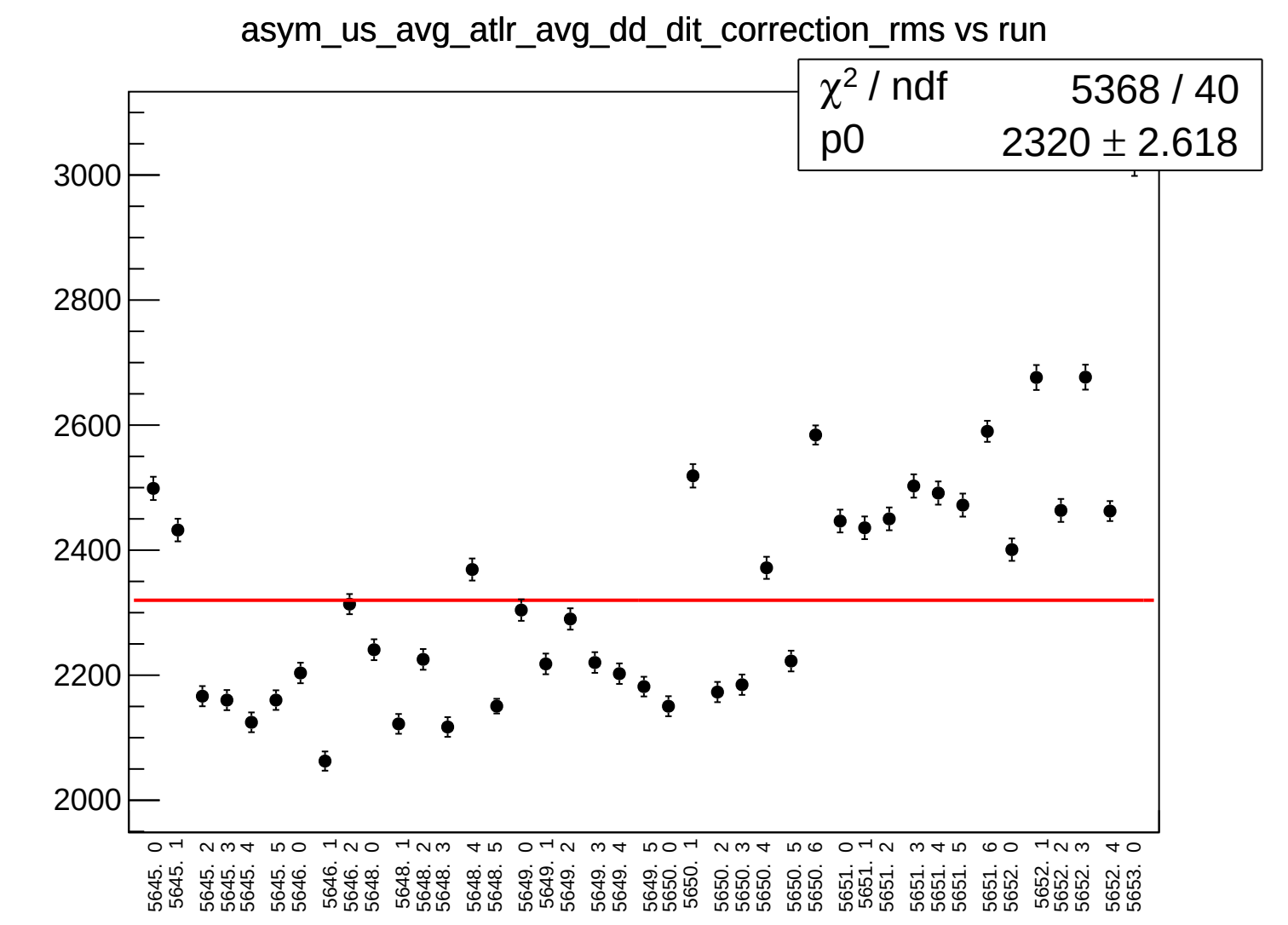

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4334 / 40
p0 2391 ± 2.697
3000
2800
2600
2400
2200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

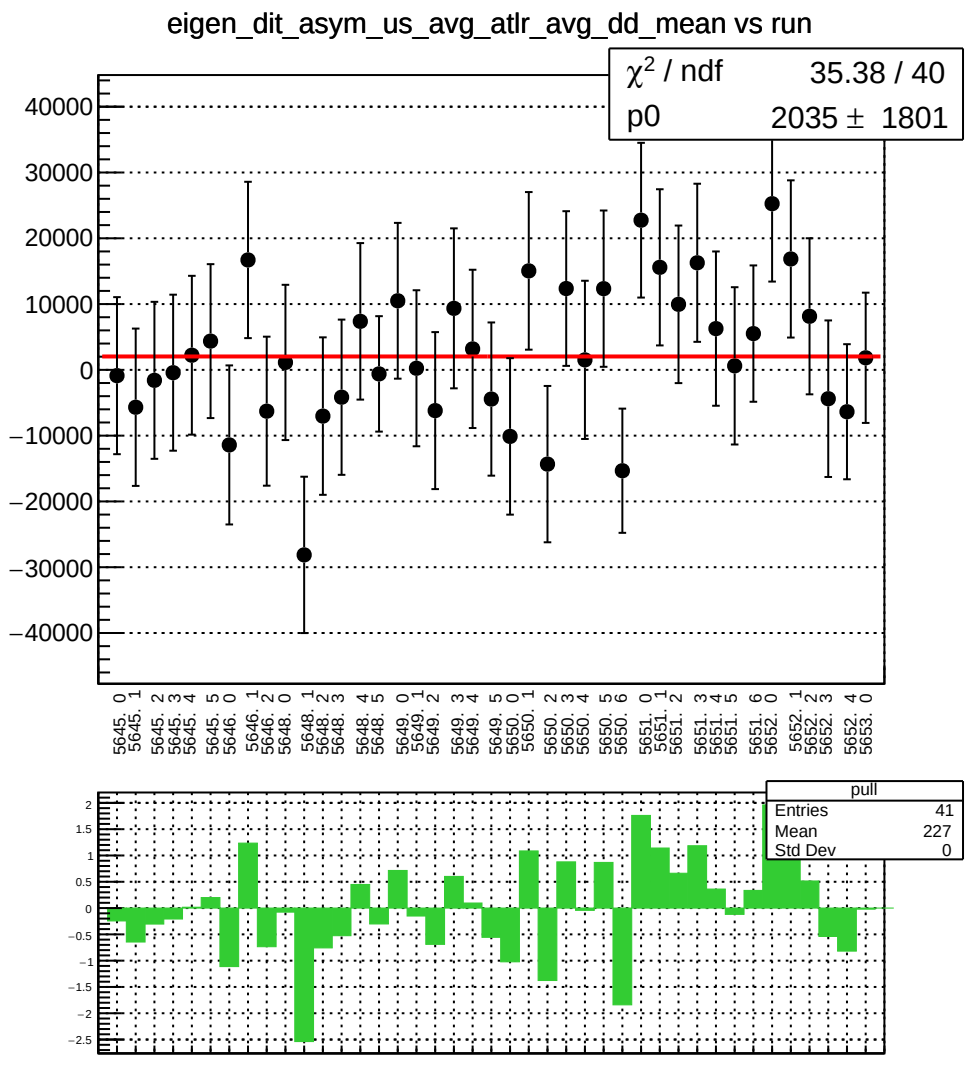

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 35.38 / 40
p0 2035 ± 1801
pull
Entries 41
Mean 227
Std Dev 0

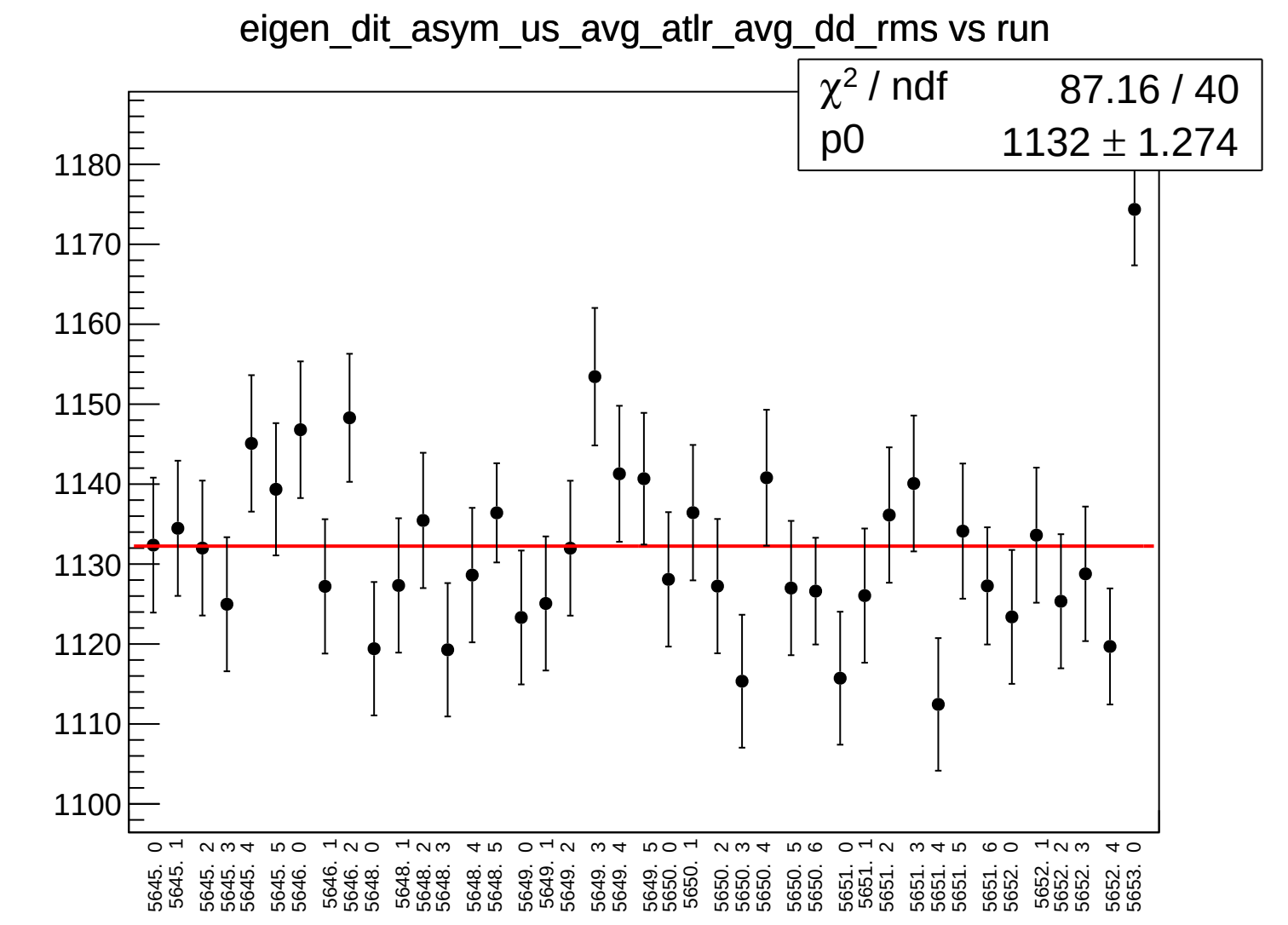

pull1D
Entries 41
Mean 0.01671
Std Dev 0.9288

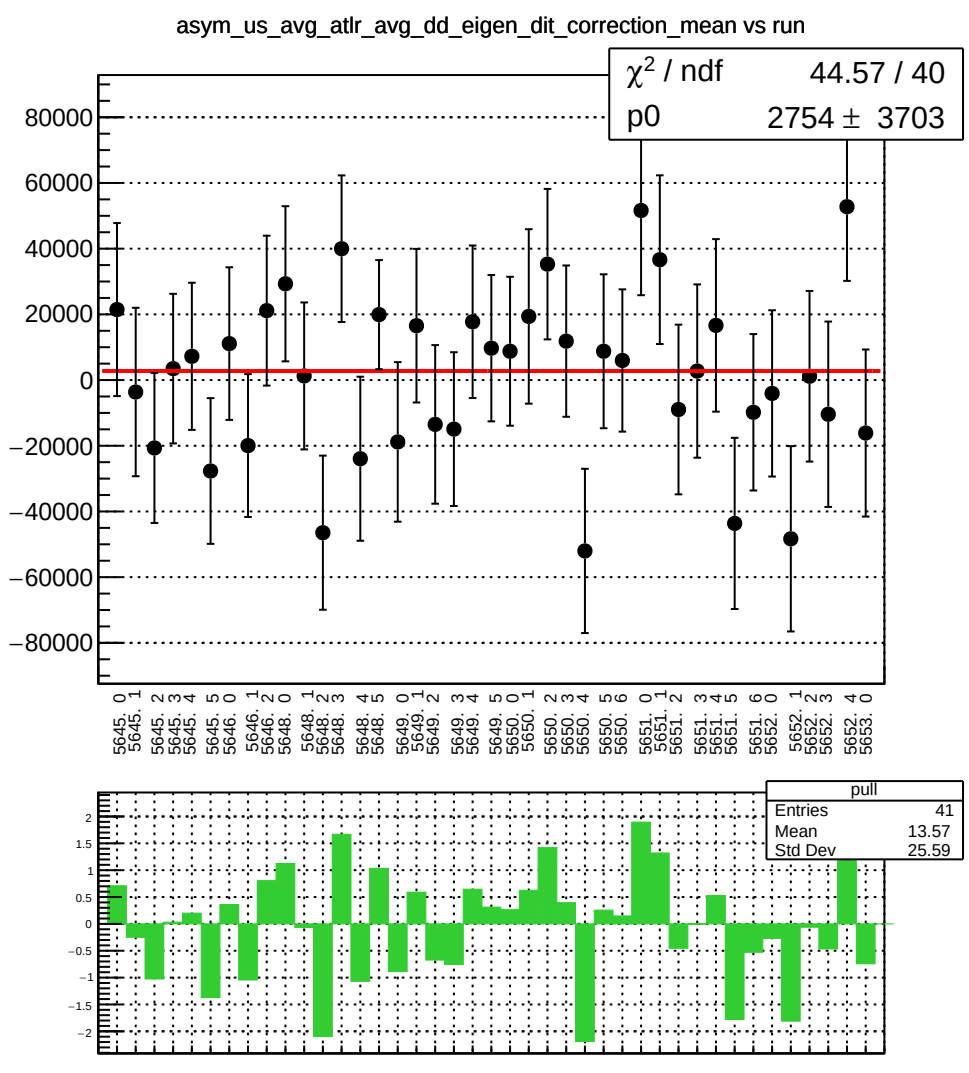

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 87.16 / 40
p0 1132 ± 1.274
1180
1170
1160
1150
1140
1130
1120
1110
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

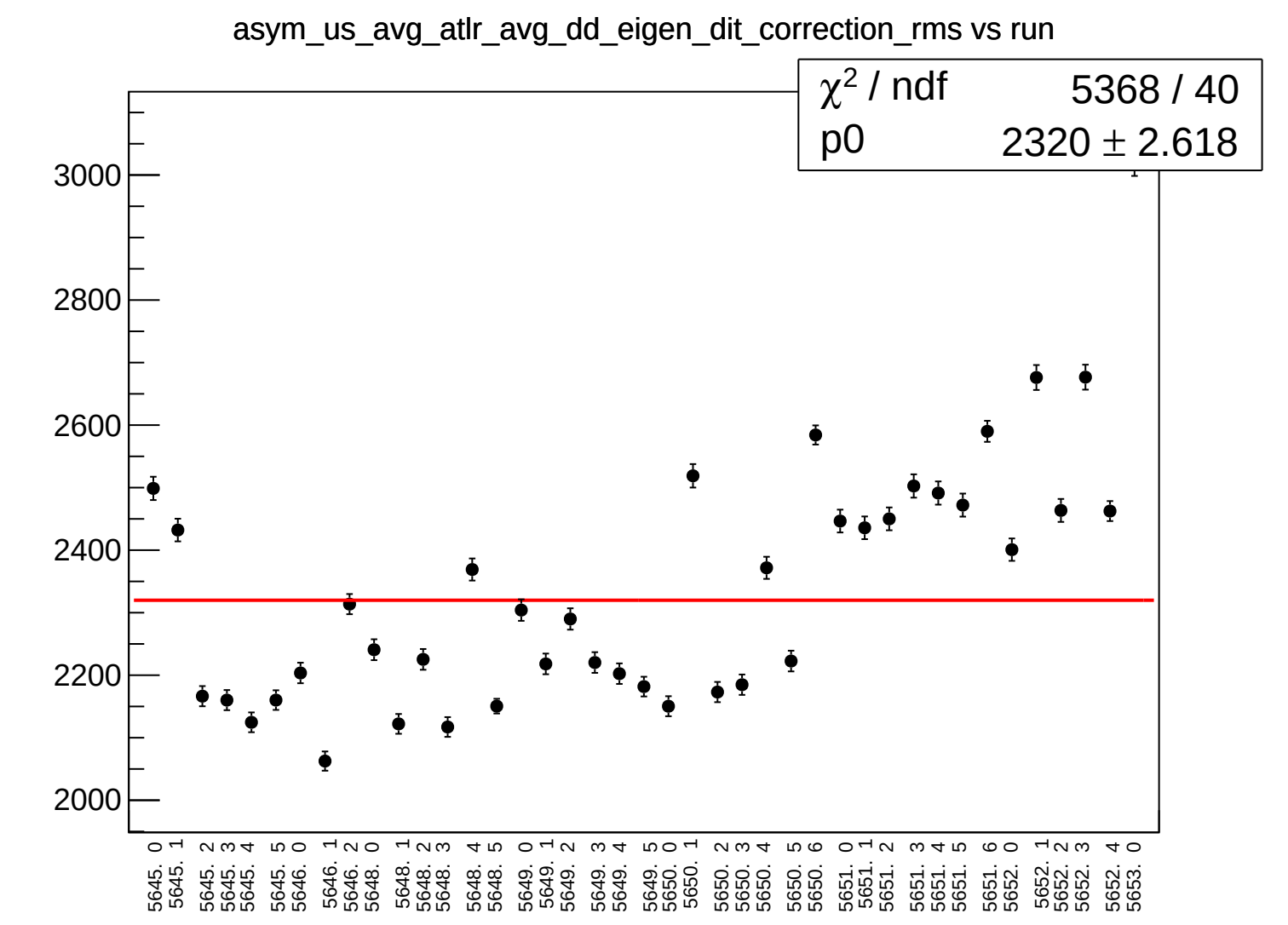

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ² / ndf 44.57 / 40
p0 2754 ± 3703
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.57
Std Dev 25.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02424
Std Dev 1.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

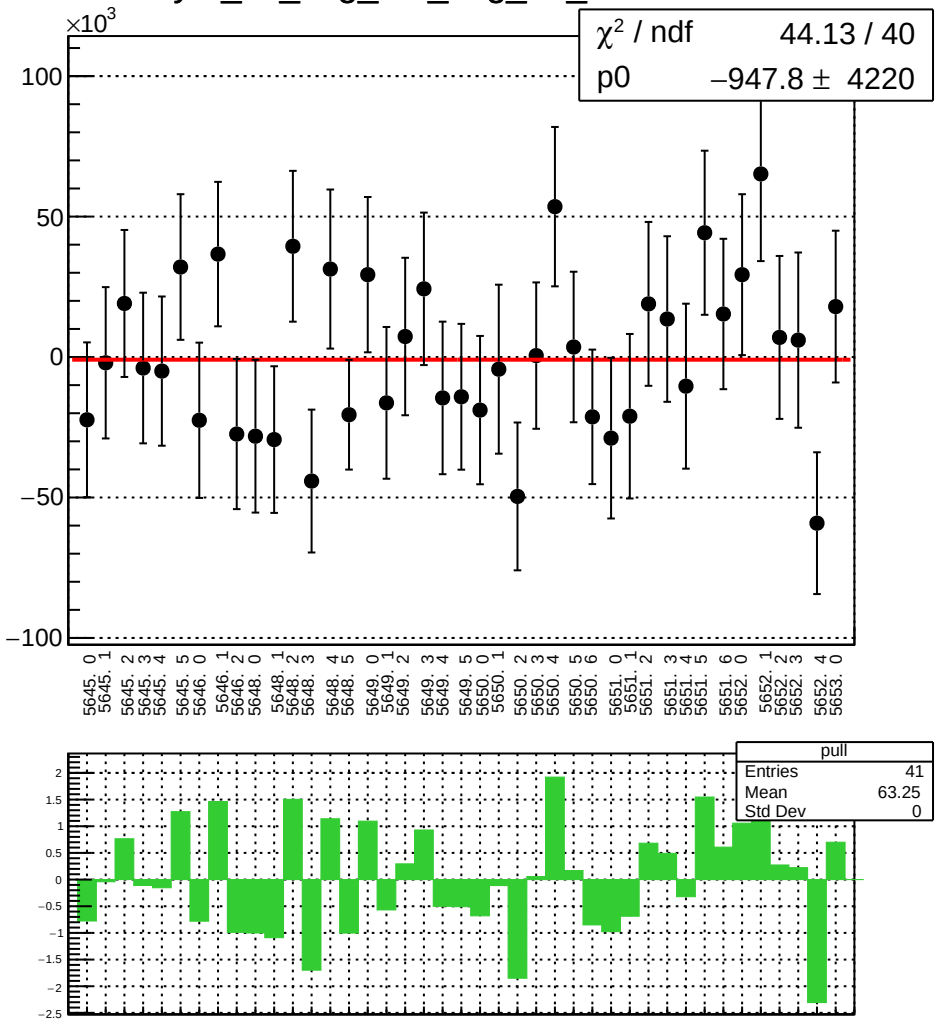

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5368 / 40
p0 2320 ± 2.618
3000
2800
2600
2400
2200
2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

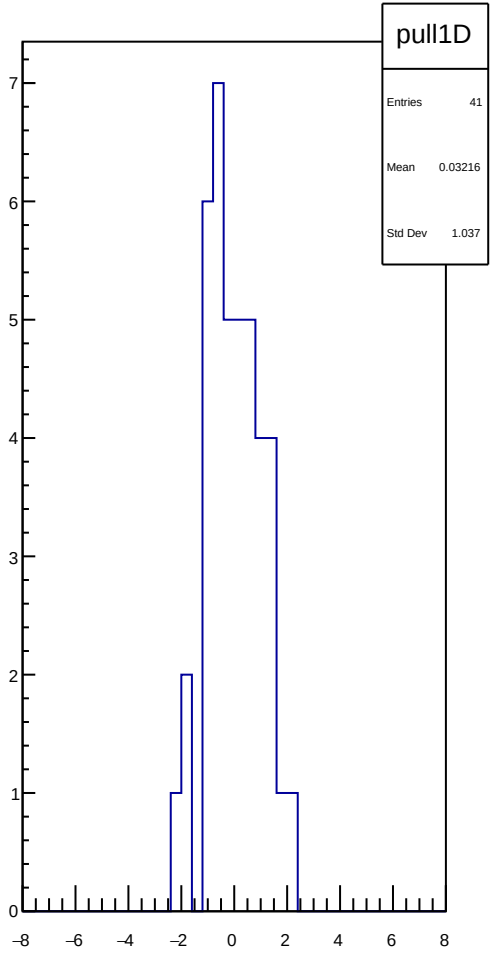

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 35.38 / 40
p0 2035 ± 1801
pull
Entries 41
Mean 227
Std Dev 0
pull1D
Entries 41
Mean 0.01671
Std Dev 0.9288

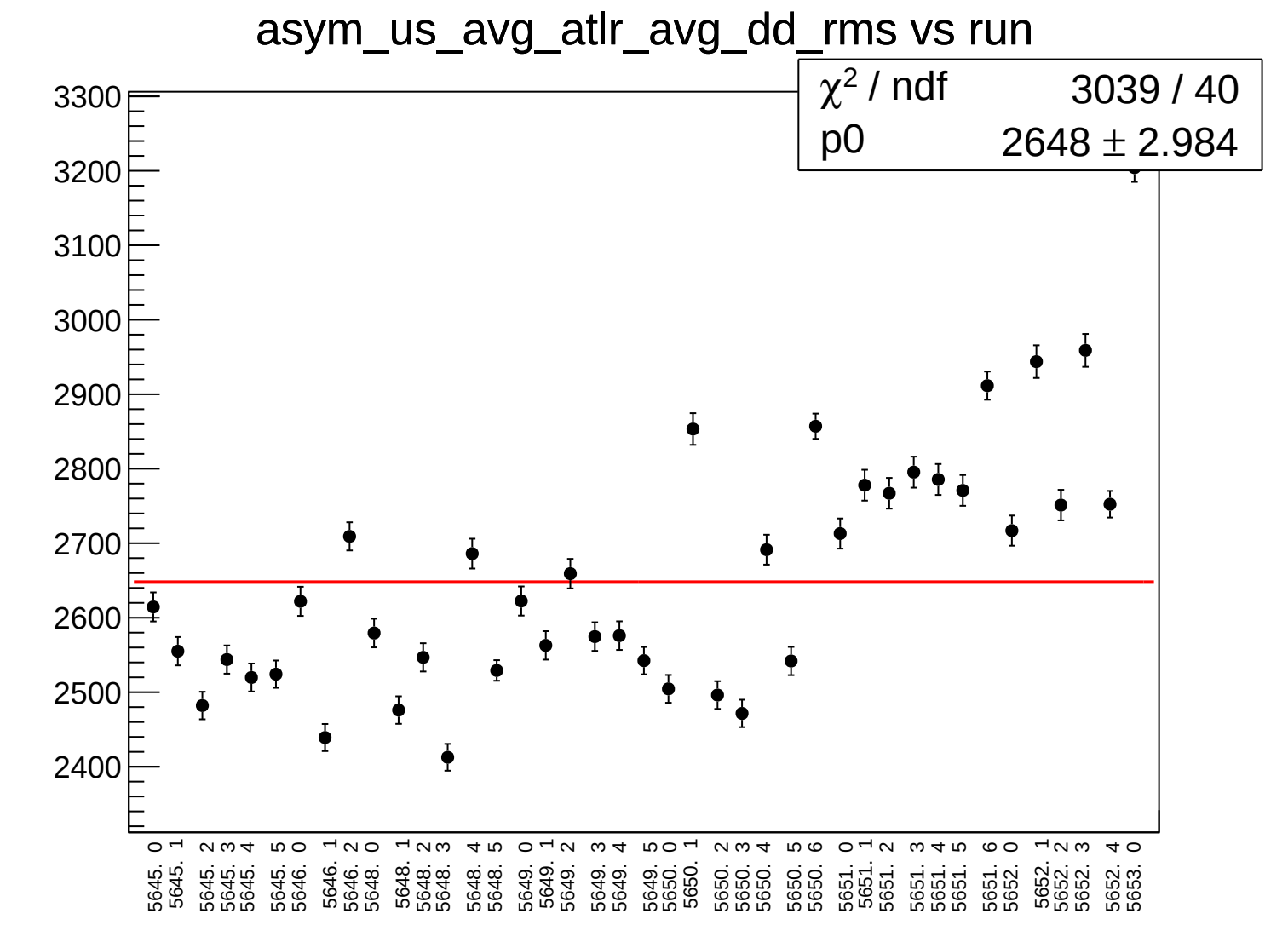

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 87.16 / 40
p0 1132 ± 1.274
1180
1170
1160
1150
1140
1130
1120
1110
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

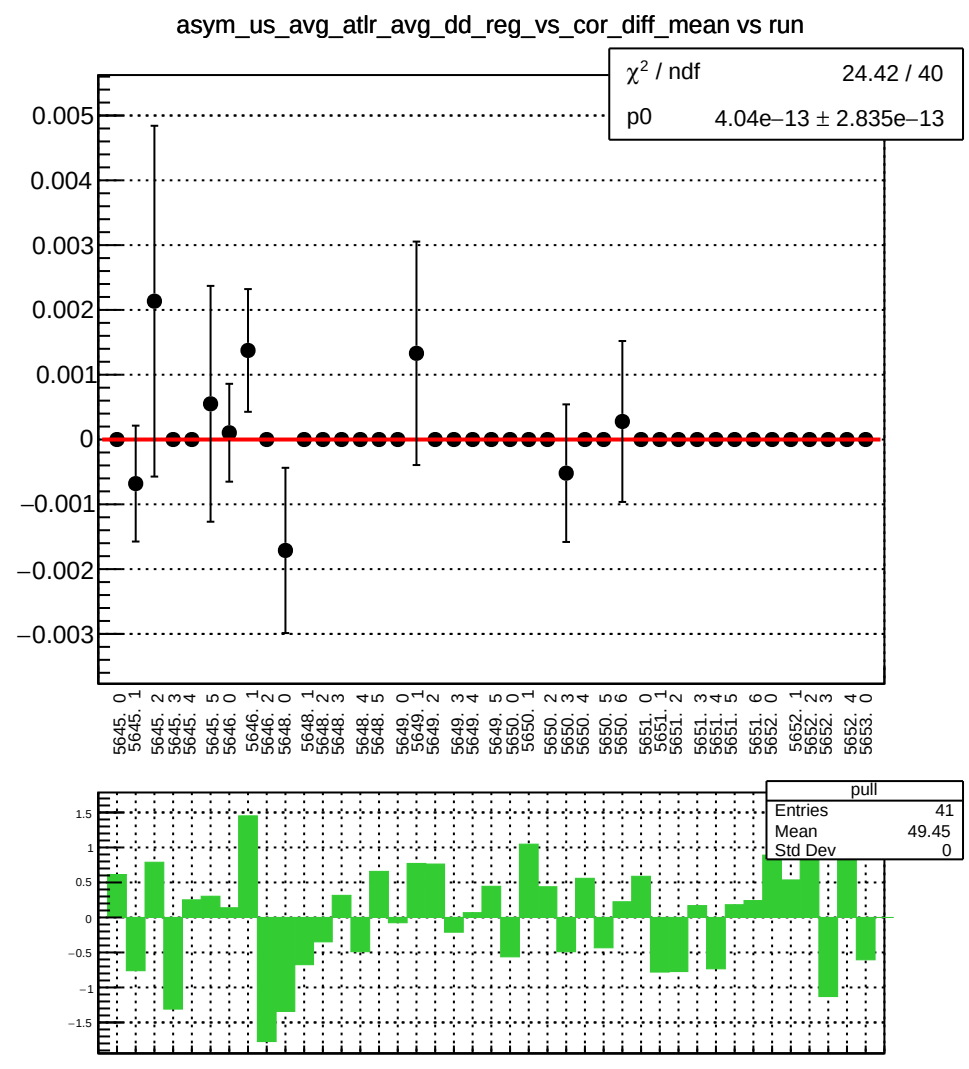

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 44.57 / 40
p0 2754 ± 3703
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.57
Std Dev 25.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02424
Std Dev 1.042
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

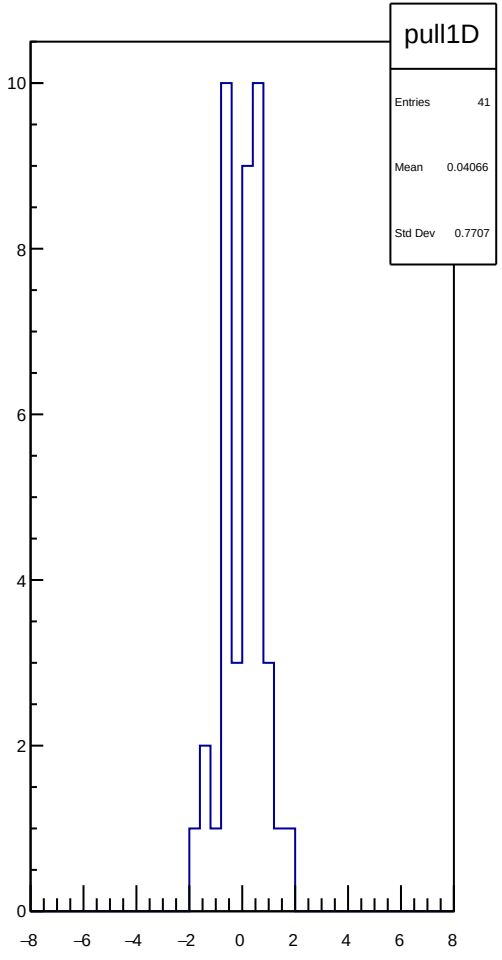

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5368 / 40
p0 2320 ± 2.618
3000
2800
2600
2400
2200
2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

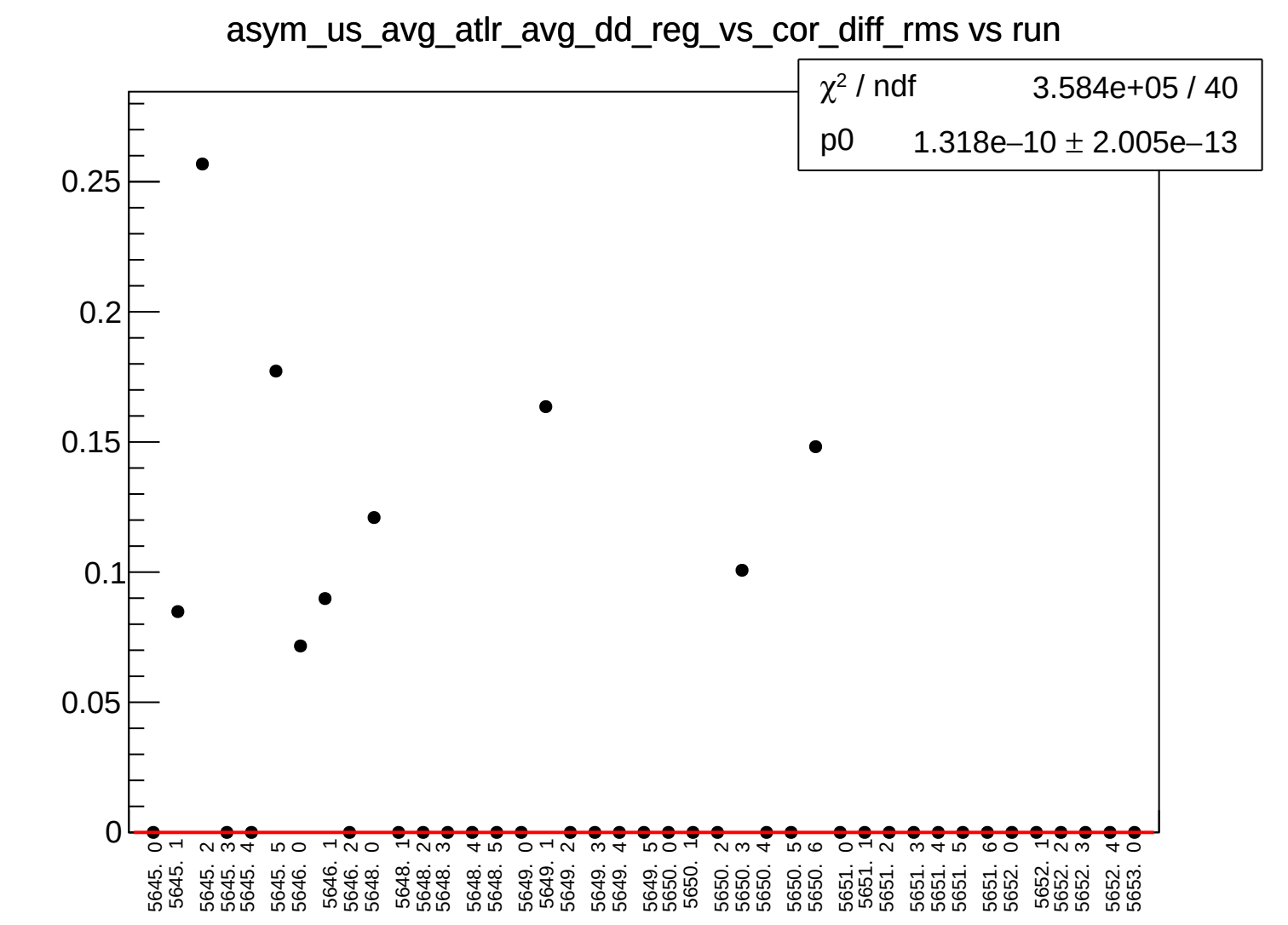

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 44.13 / 40
p0 −947.8 ± 4220
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 63.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

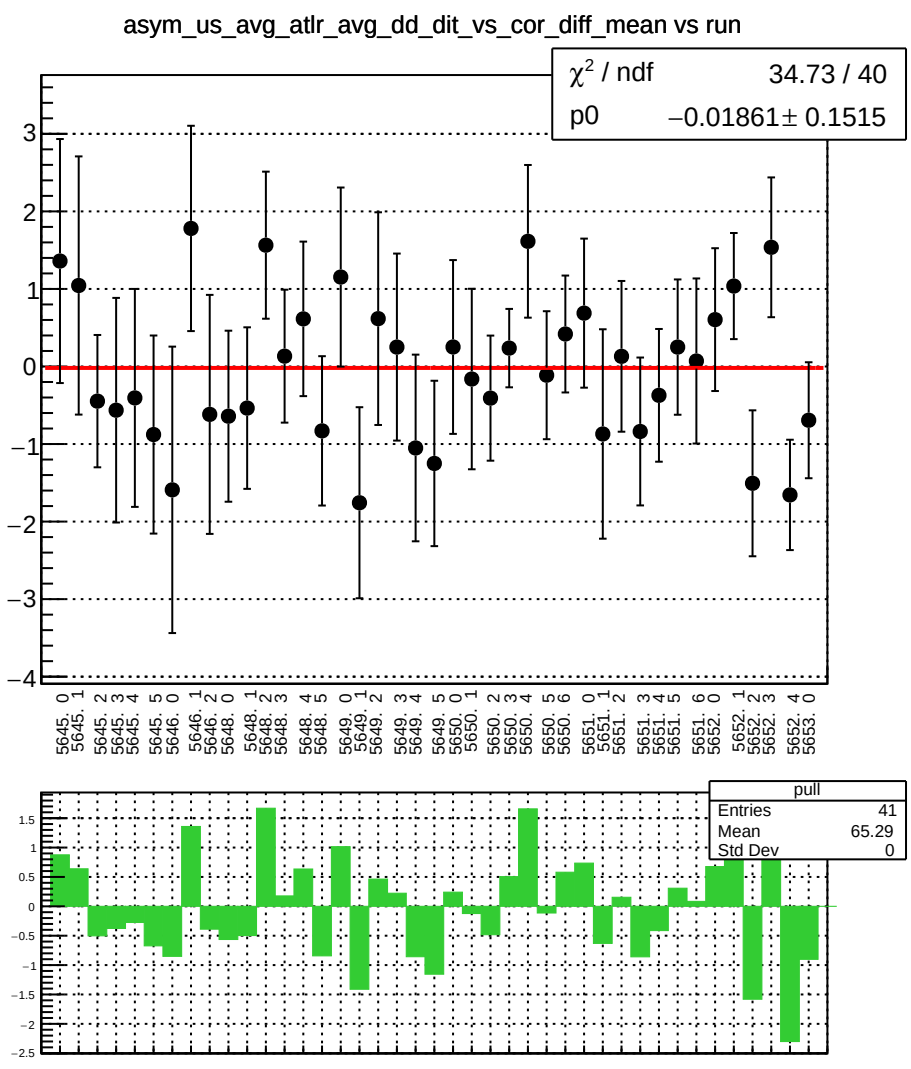

pull1D
Entries 41
Mean 0.03216
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

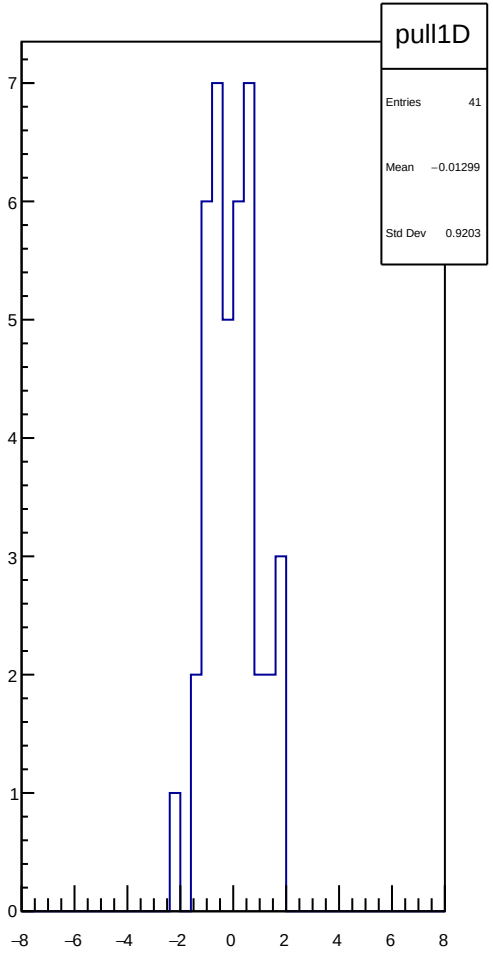

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3039 / 40
p0 2648 ± 2.984
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

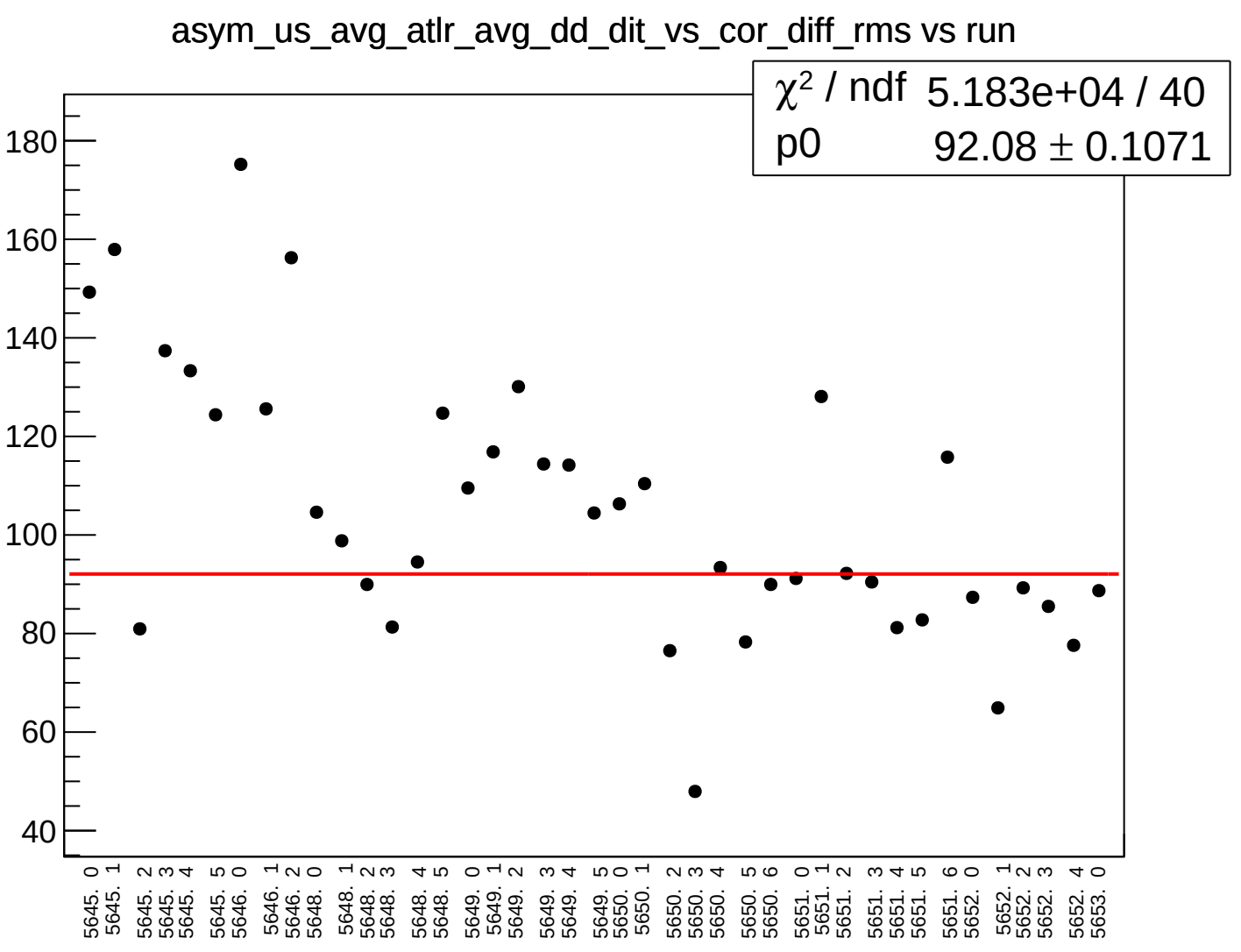

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.42 / 40
p0 4.04e−13 ± 2.835e−13
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 49.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

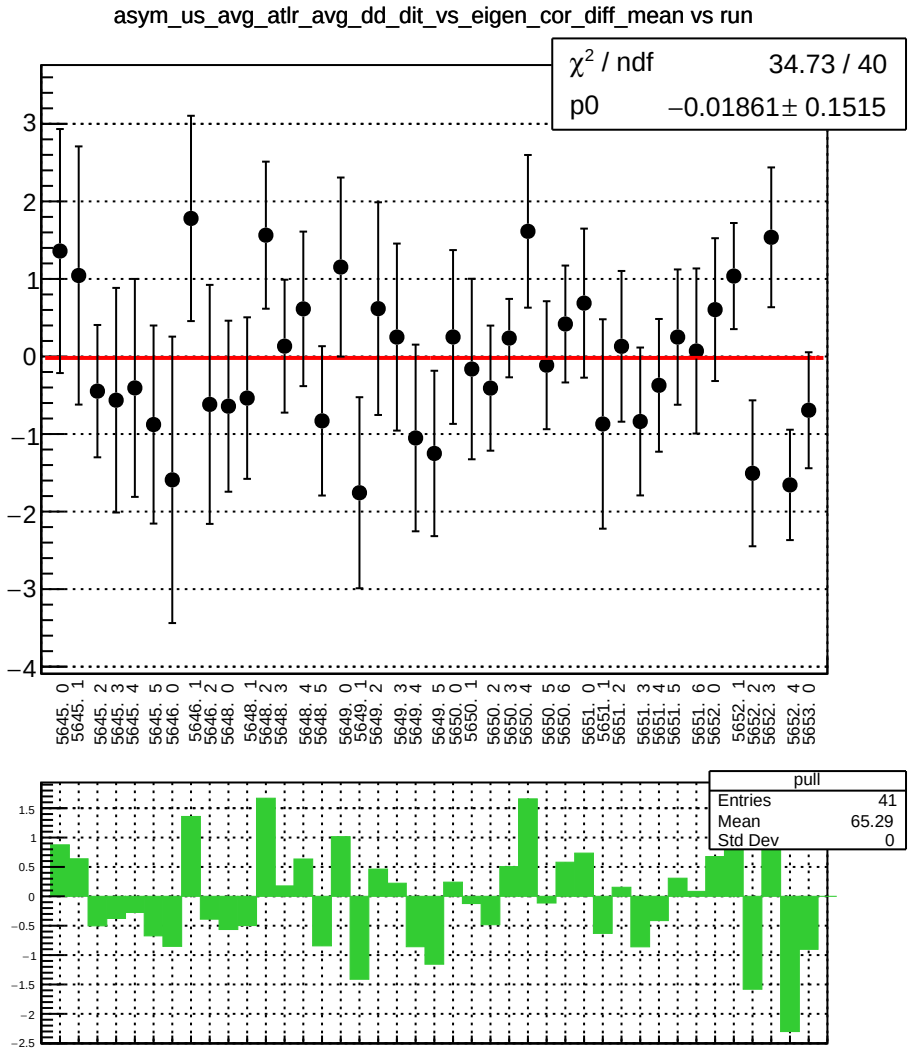

pull1D
Entries 41
Mean 0.04066
Std Dev 0.7707
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

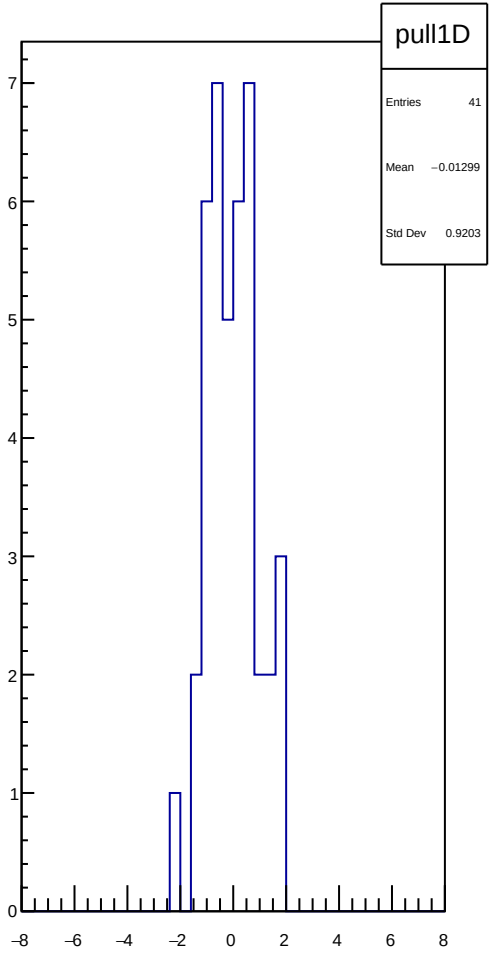

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.584e+05 / 40
p0 1.318e−10 ± 2.005e−13
0.25
0.2
0.15
0.1
0.05
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

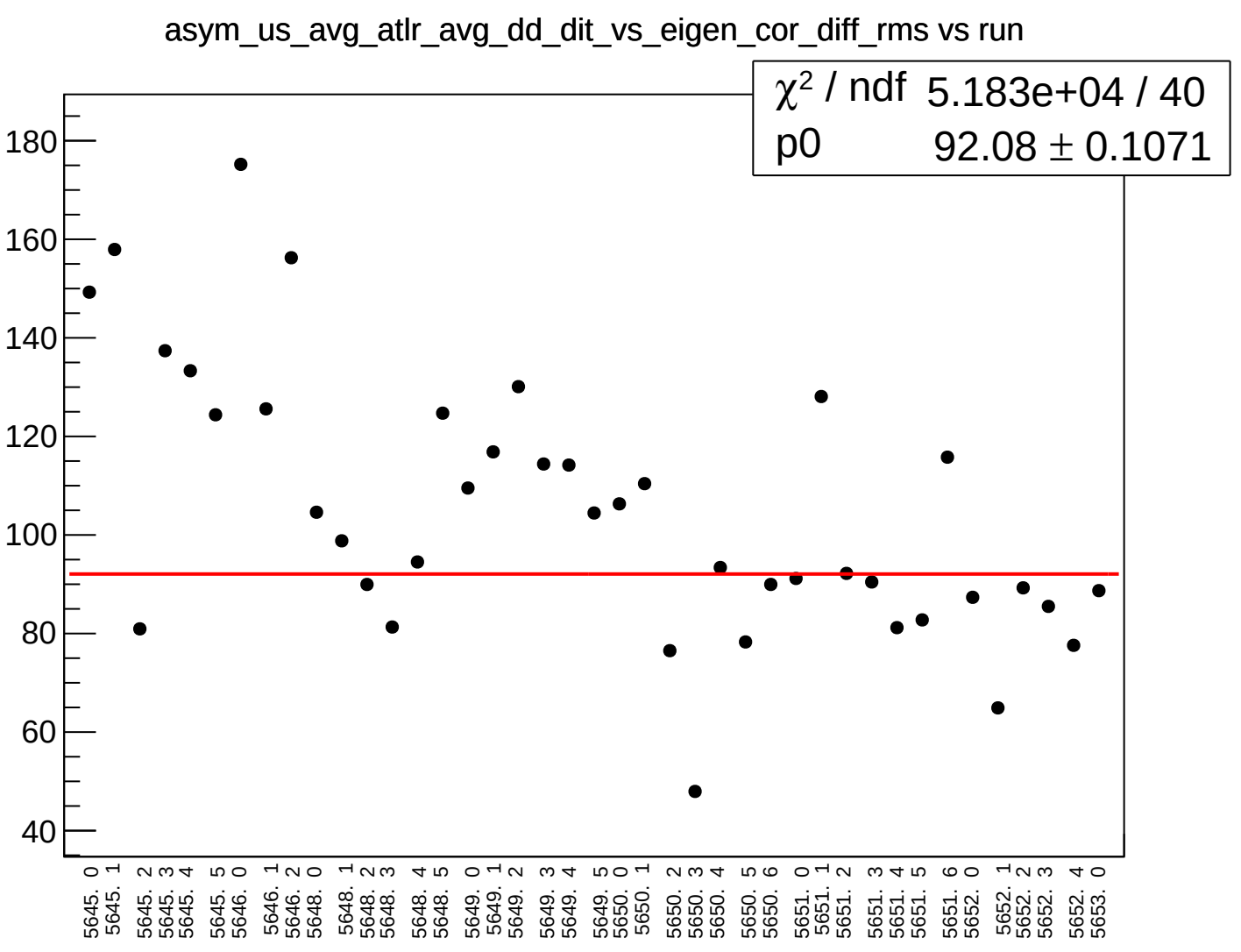

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.73 / 40
p0 −0.01861± 0.1515
pull
Entries 41
Mean 65.29
Std Dev 0

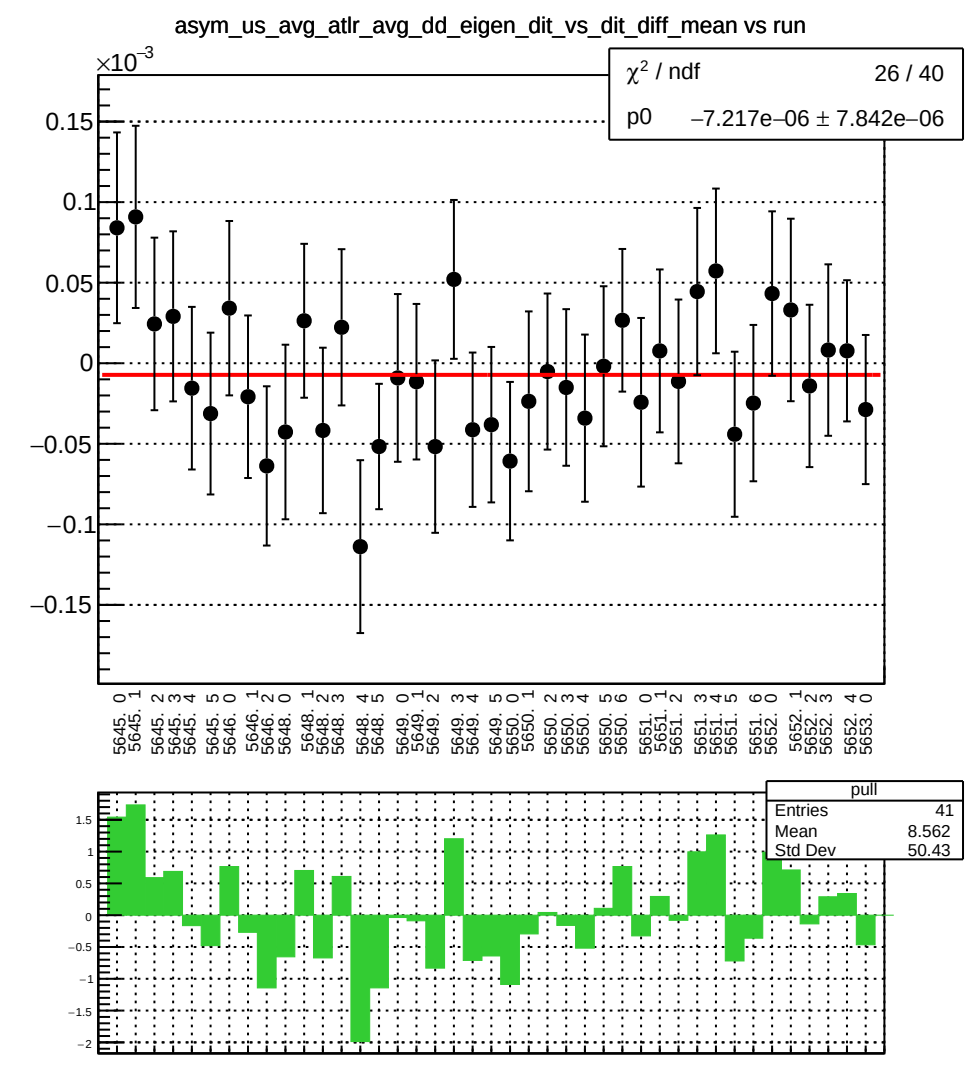

pull1D
Entries 41
Mean −0.01299
Std Dev 0.9203

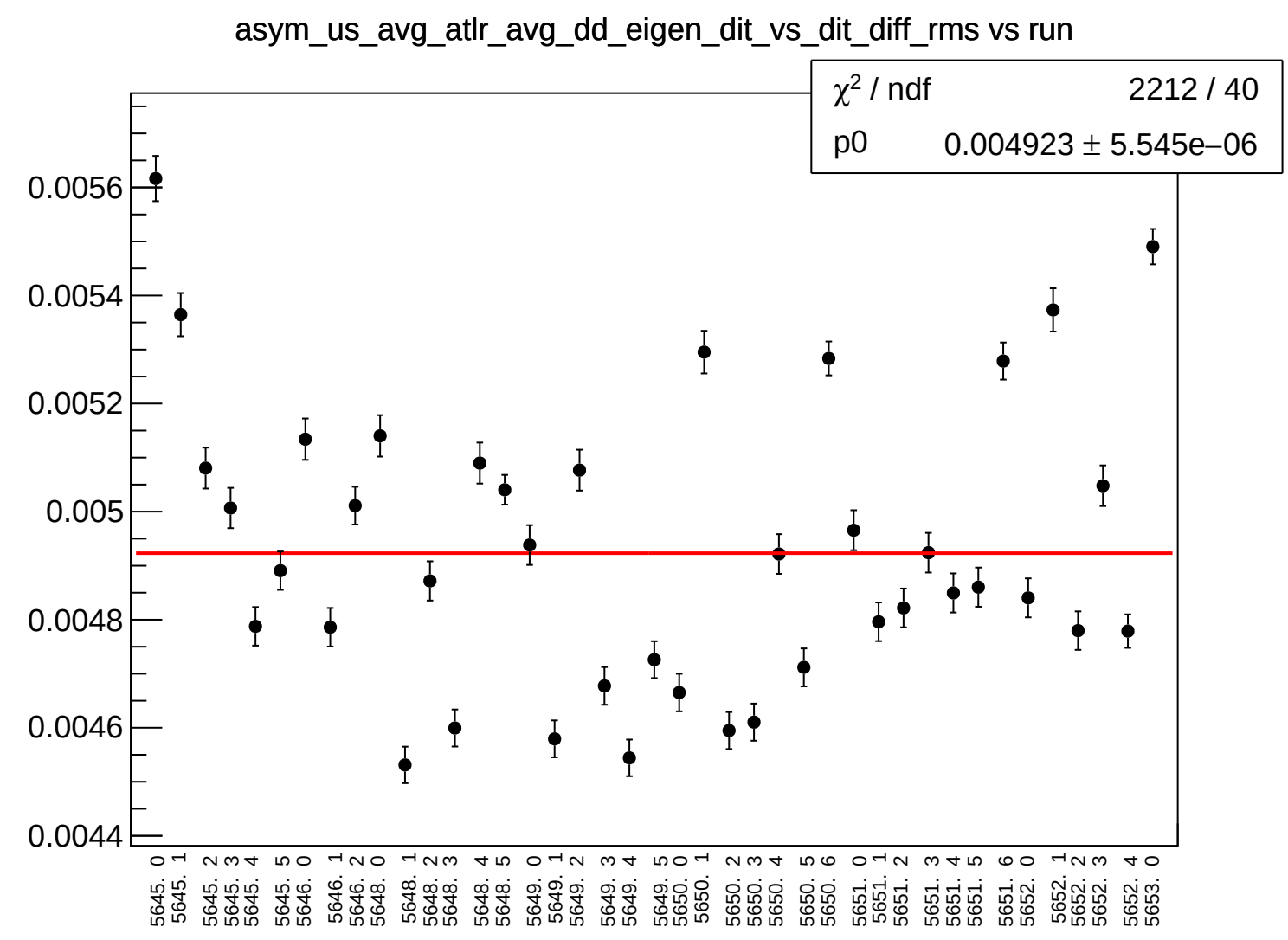

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.183e+04 / 40
p0 92.08 ± 0.1071
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

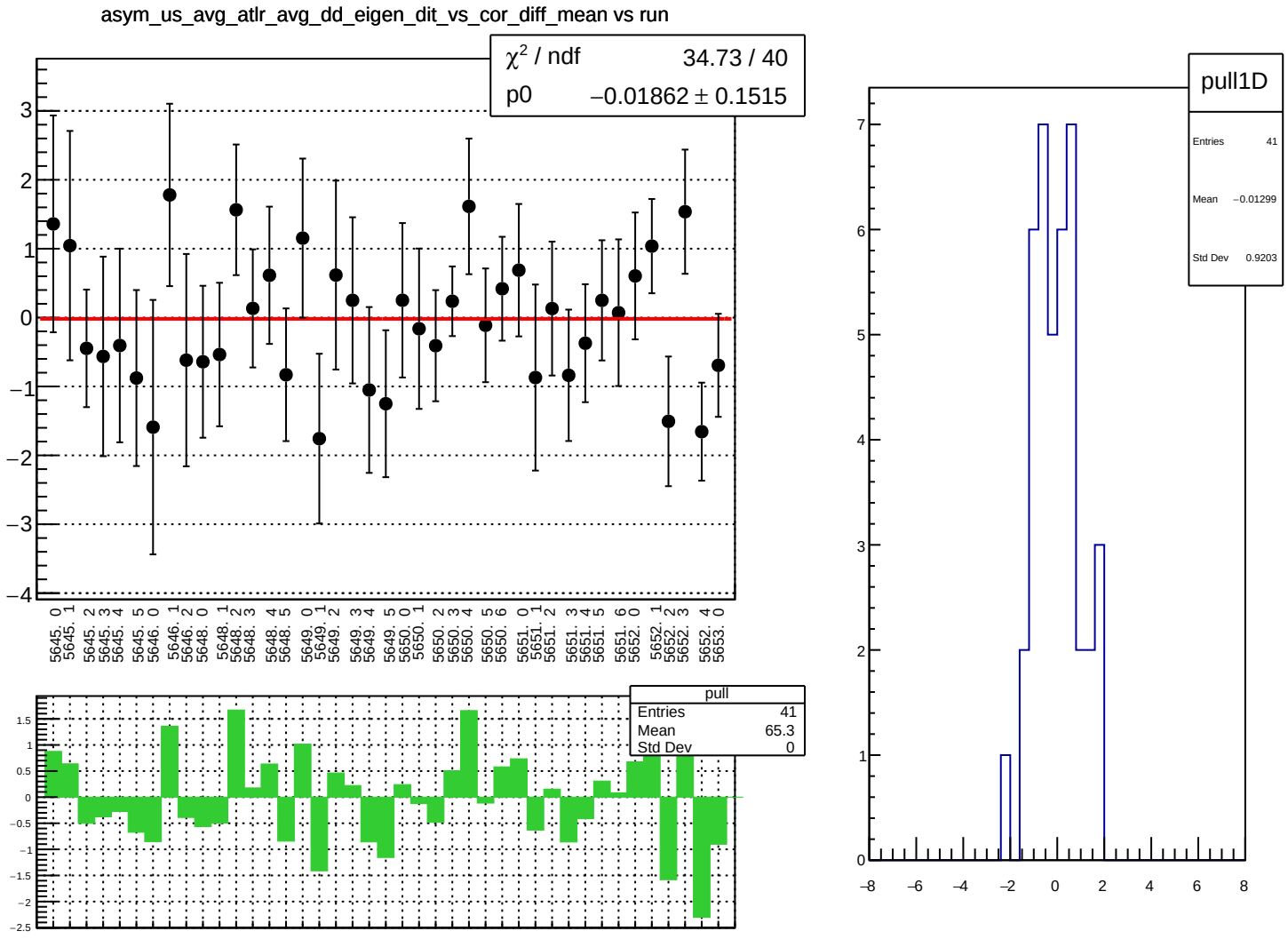

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.73 / 40
p0 −0.01861± 0.1515
pull
Entries 41
Mean 65.29
Std Dev 0

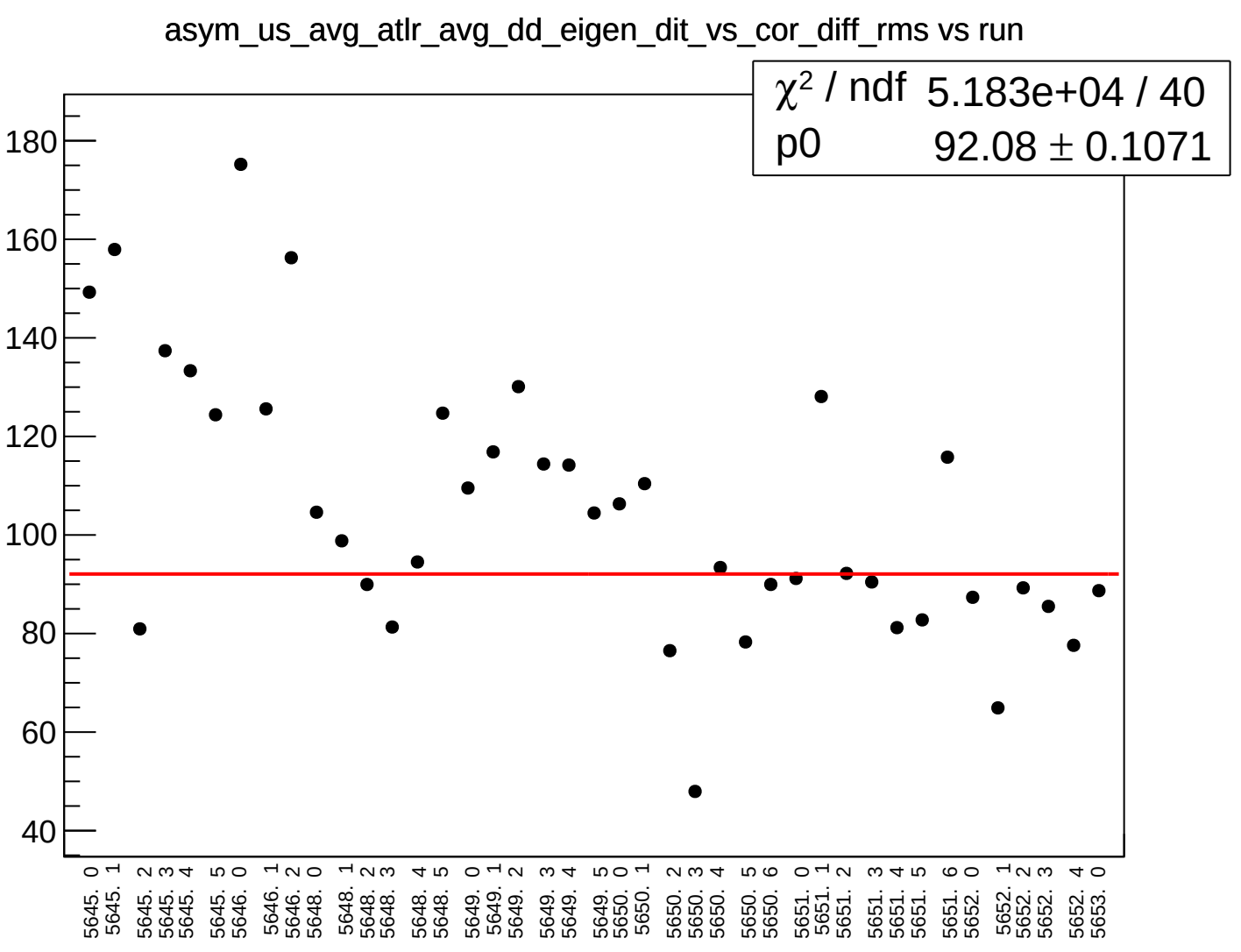

pull1D
Entries 41
Mean −0.01299
Std Dev 0.9203

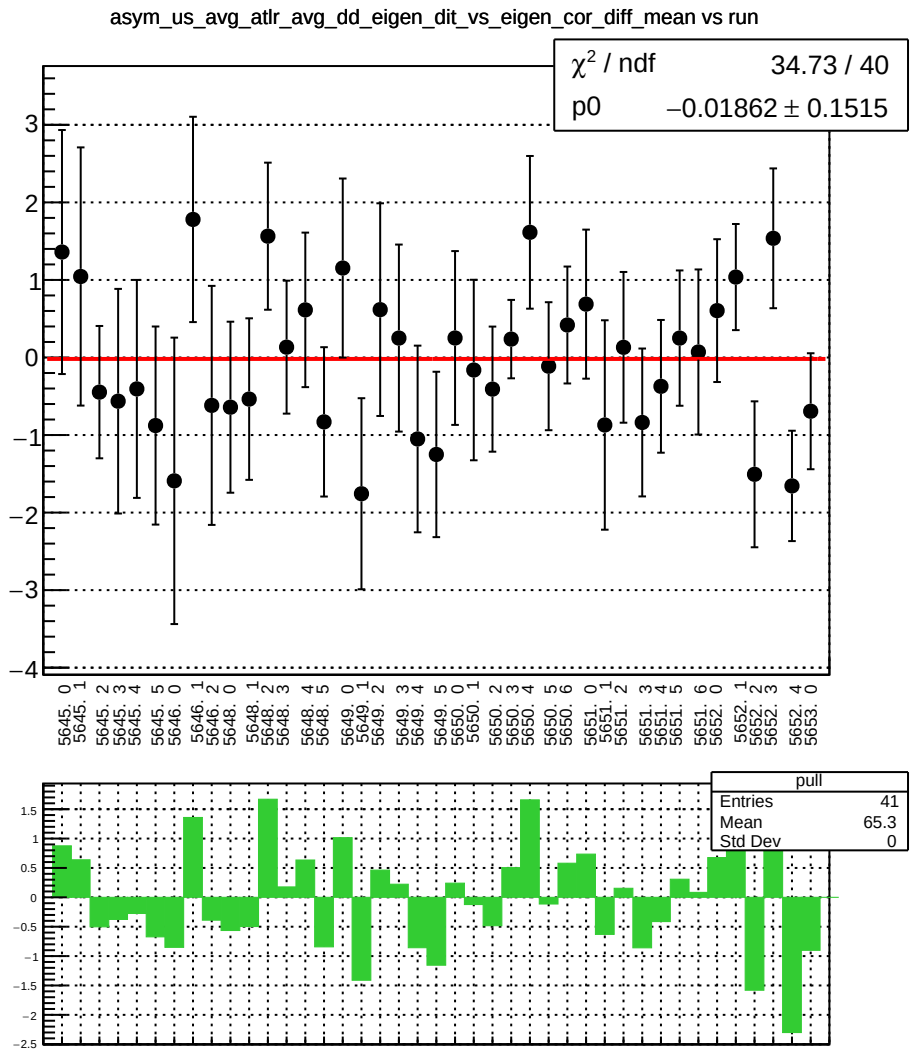

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.183e+04 / 40
p0 92.08 ± 0.1071
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

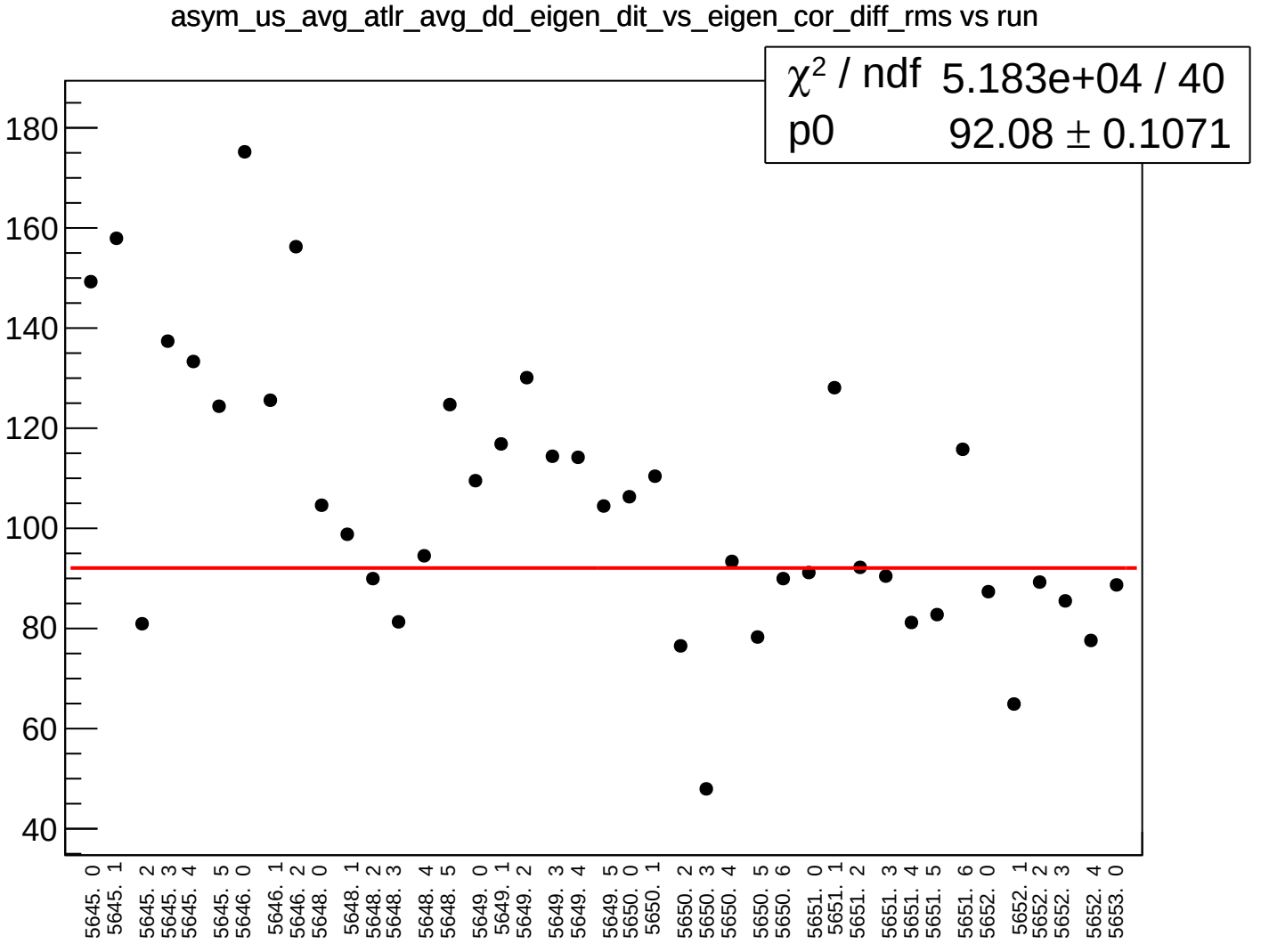

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 26 / 40
p0 −7.217e−06 ± 7.842e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.562
Std Dev 50.43
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01616
Std Dev 0.7962
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

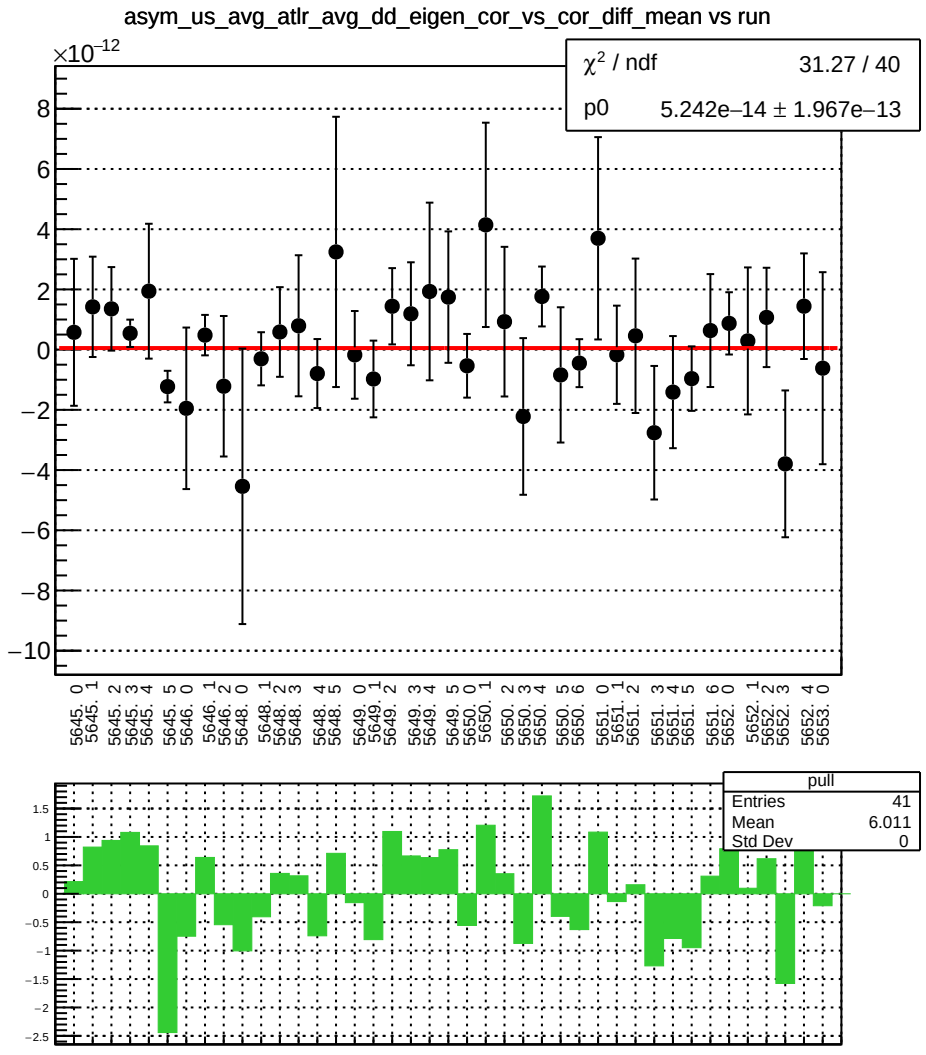

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2212 / 40
p0 0.004923 ± 5.545e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

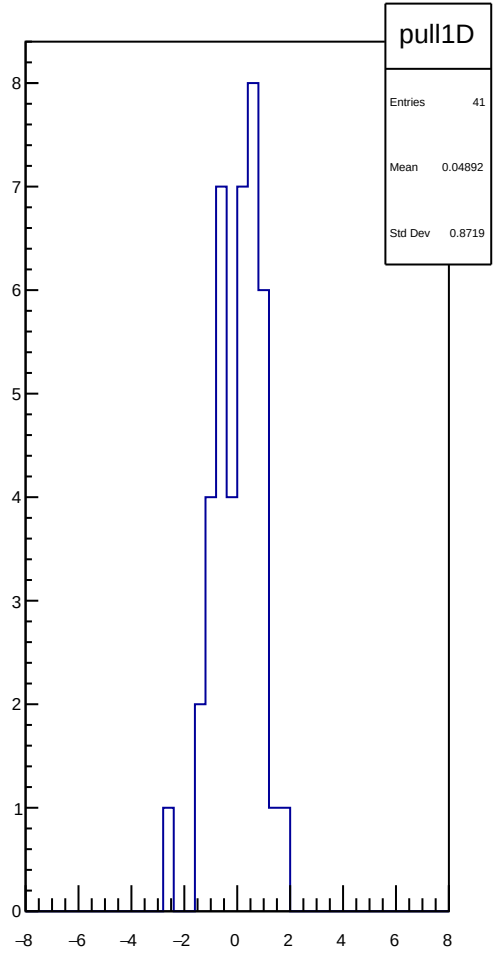

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.73 / 40
p0 −0.01862 ± 0.1515
pull
Entries 41
Mean 65.3
Std Dev 0
pull1D
Entries 41
Mean −0.01299
Std Dev 0.9203

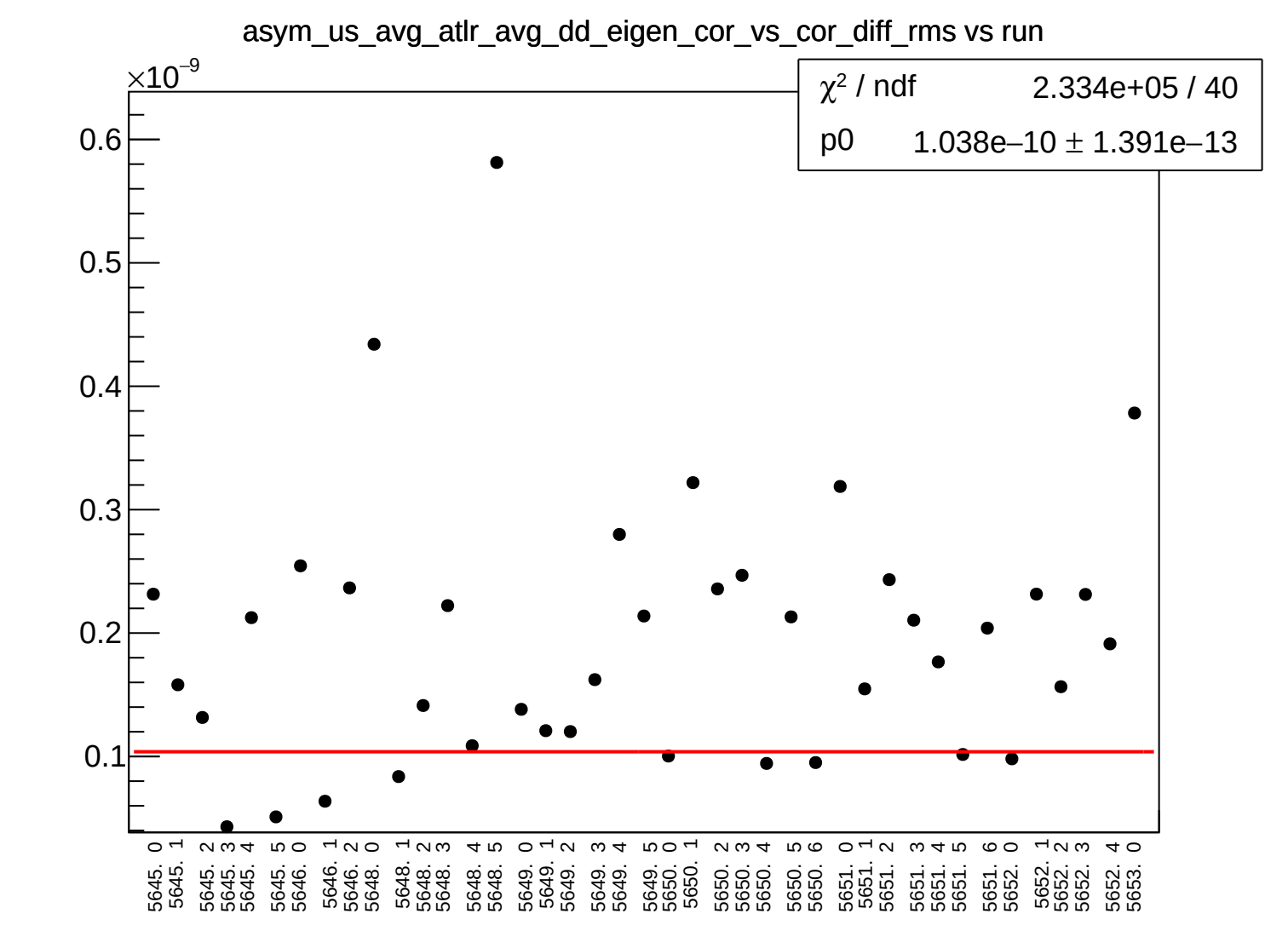

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.183e+04 / 40
p0 92.08 ± 0.1071
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

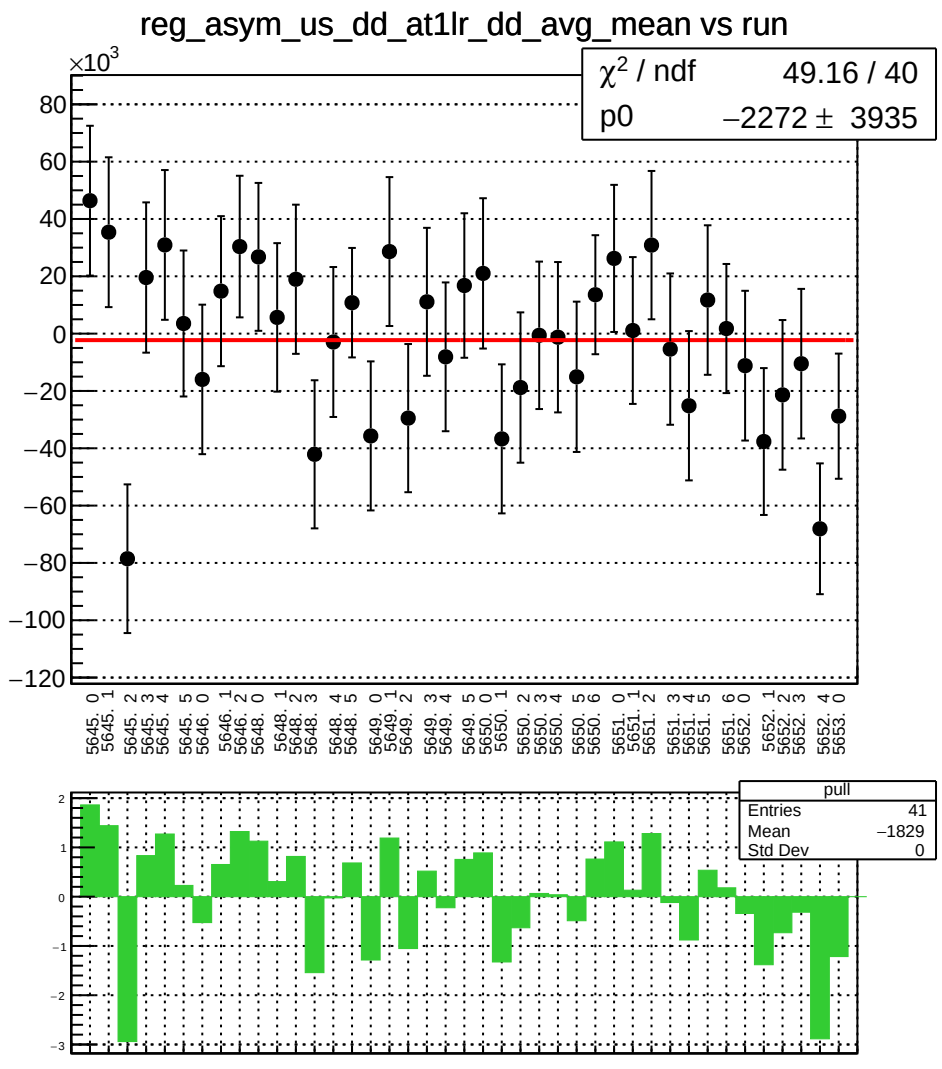

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.73 / 40
p0 −0.01862 ± 0.1515
pull
Entries 41
Mean 65.3
Std Dev 0
pull1D
Entries 41
Mean −0.01299
Std Dev 0.9203

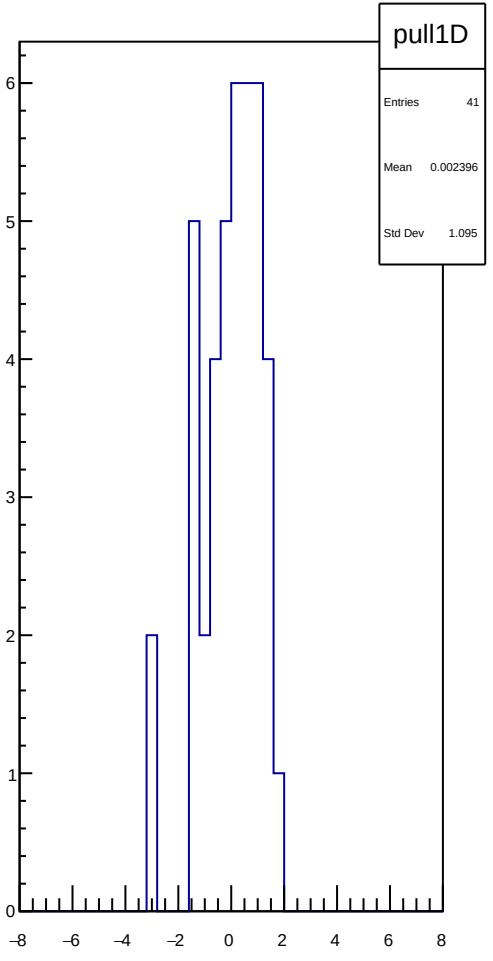

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.183e+04 / 40
p0 92.08 ± 0.1071
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

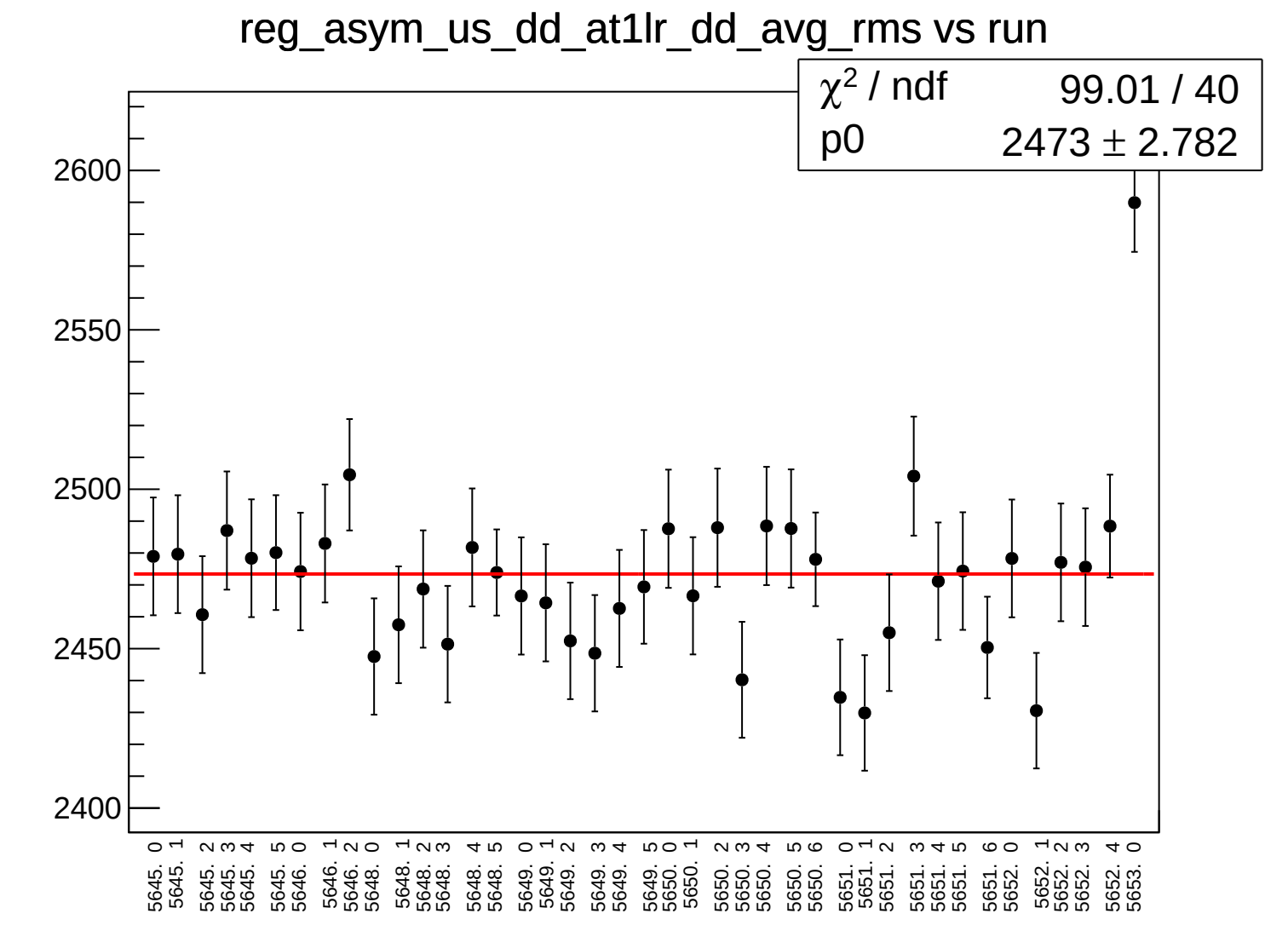

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.27 / 40
p0 5.242e−14 ± 1.967e−13
pull
Entries 41
Mean 6.011
Std Dev 0

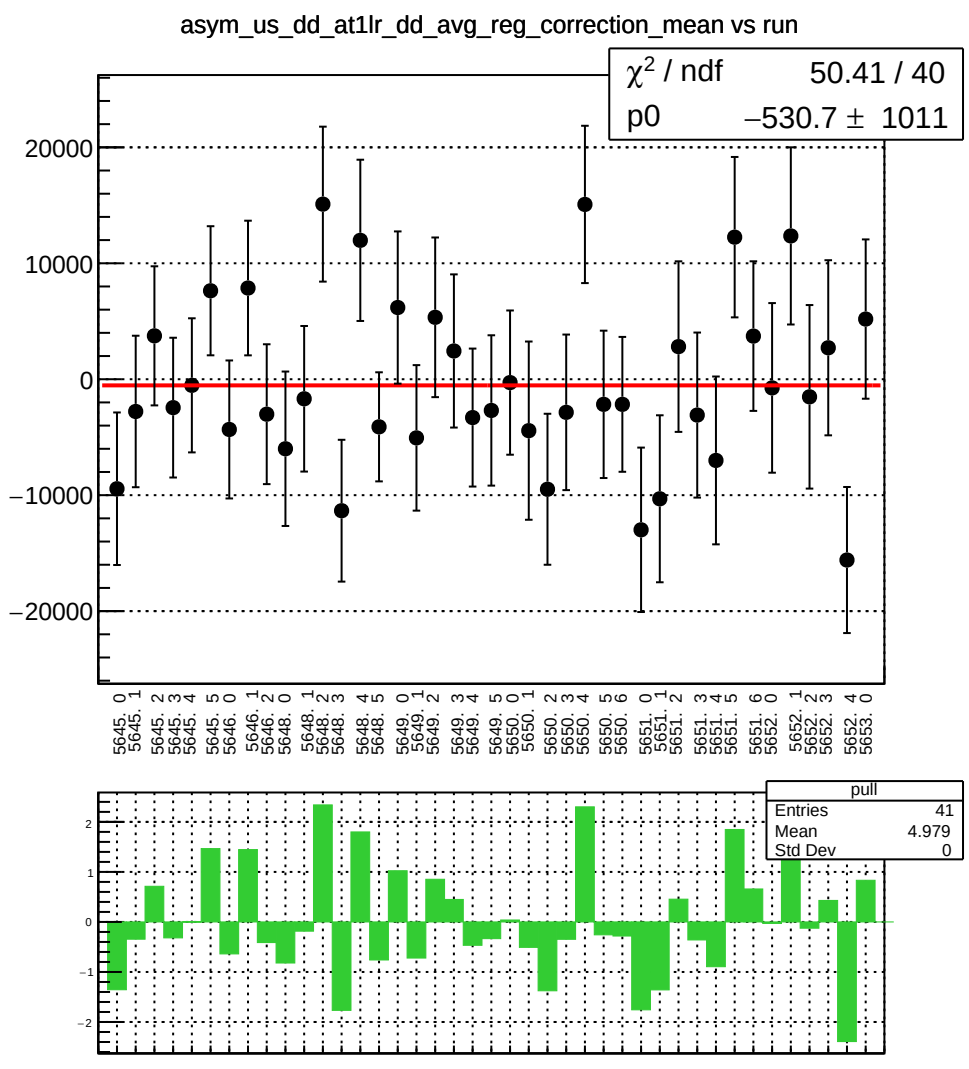

pull1D
Entries 41
Mean 0.04892
Std Dev 0.8719

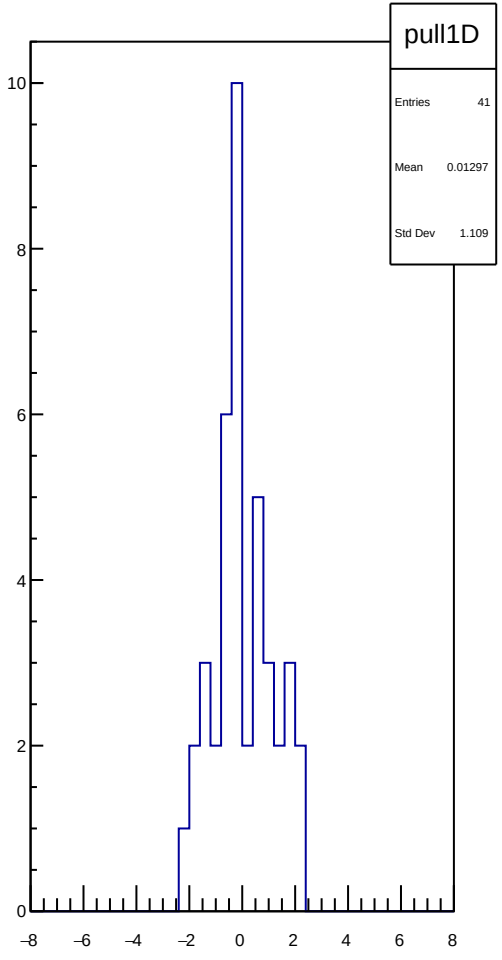

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.334e+05 / 40
p0 1.038e−10 ± 1.391e−13
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

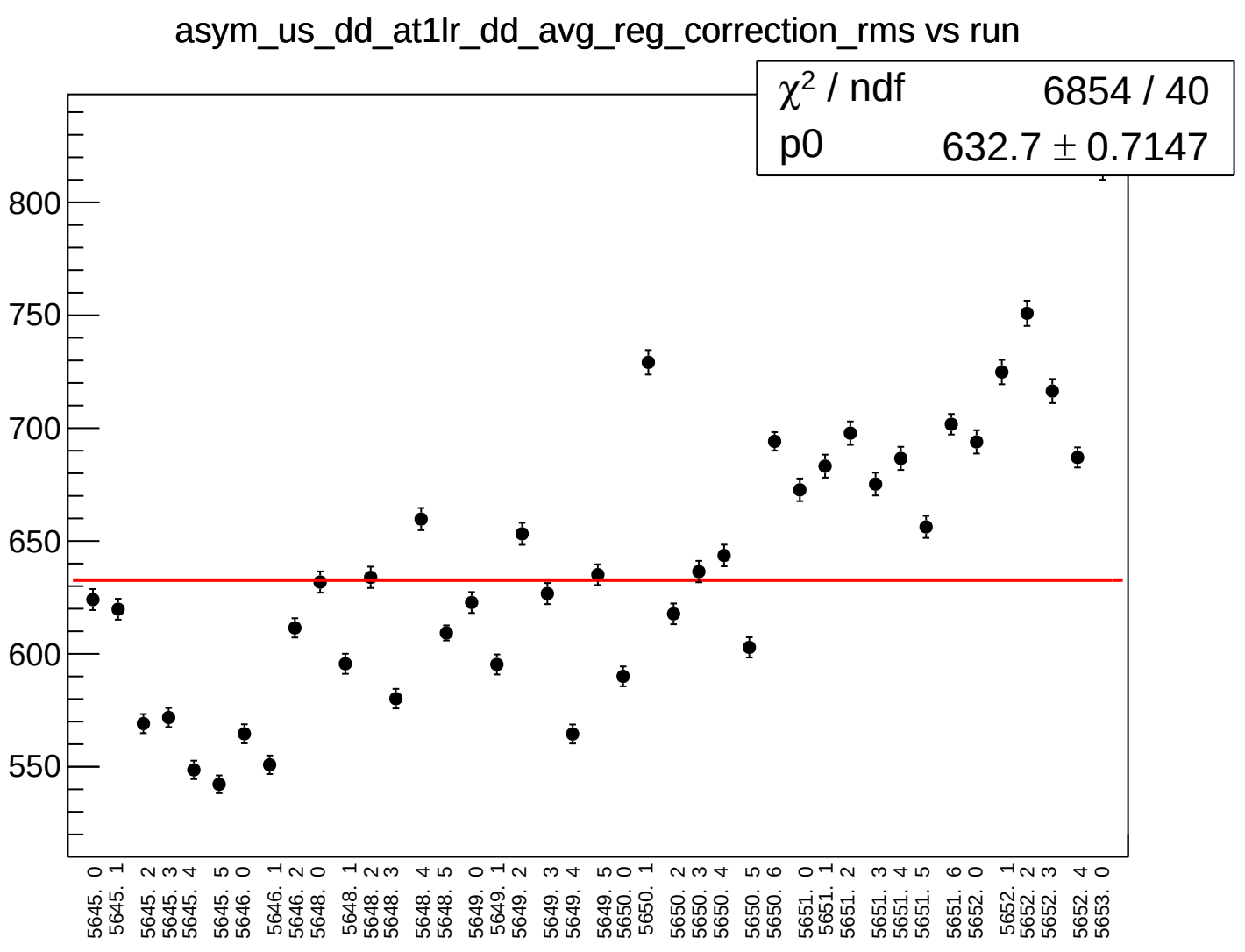

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 49.16 / 40
p0 −2272 ± 3935
pull
Entries 41
Mean −1829
Std Dev 0

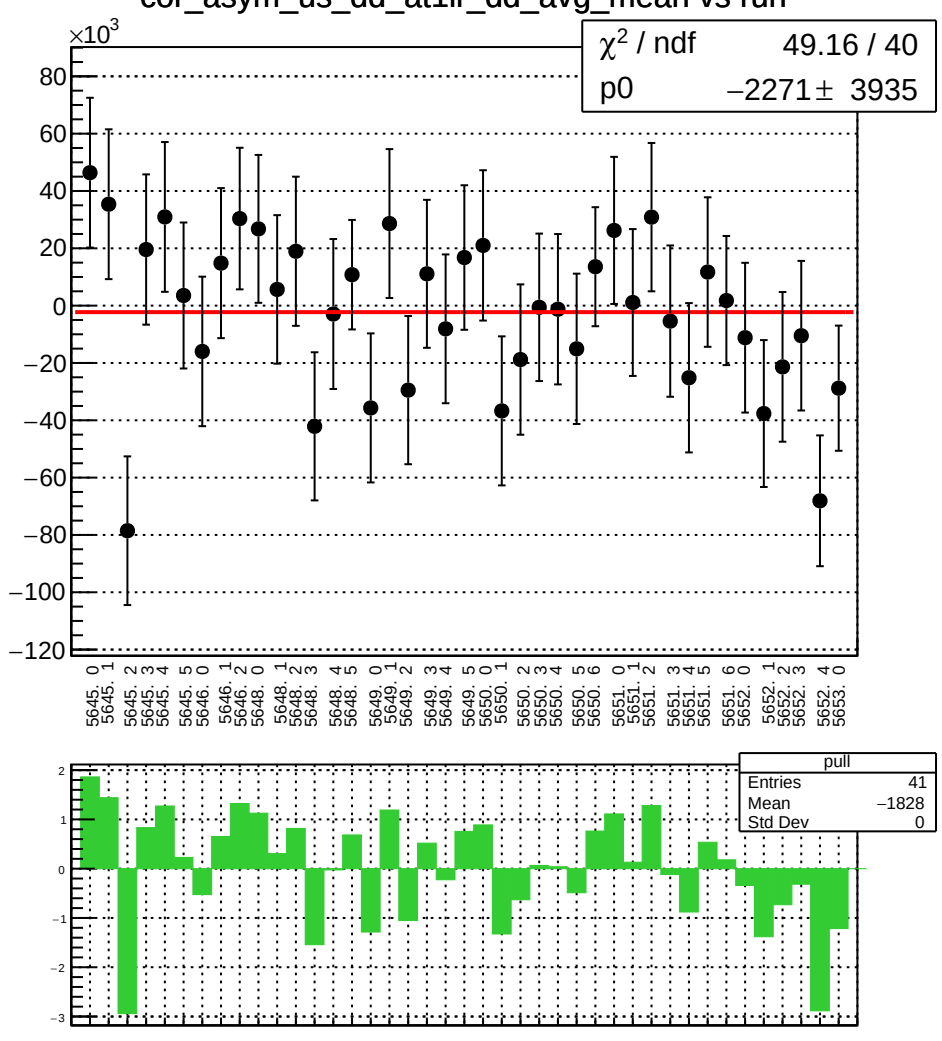

pull1D
Entries 41
Mean 0.002396
Std Dev 1.095

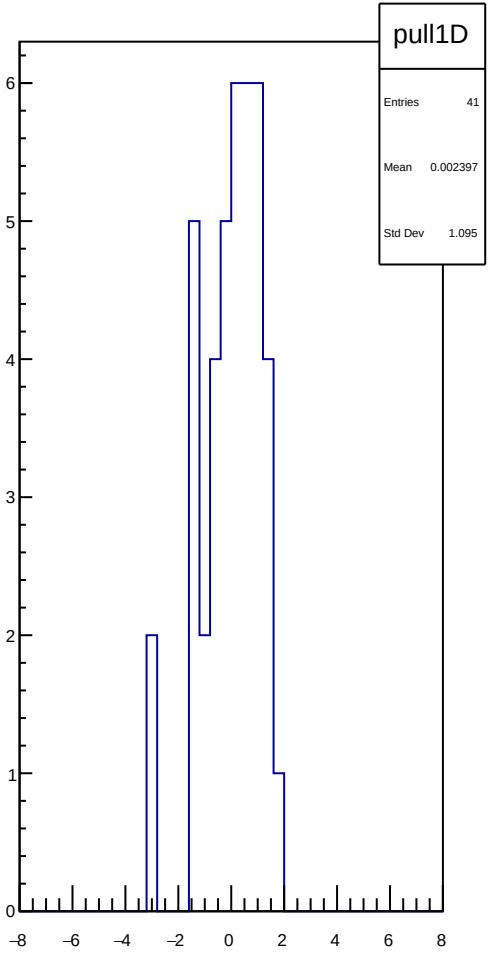

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 99.01 / 40
p0 2473 ± 2.782
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

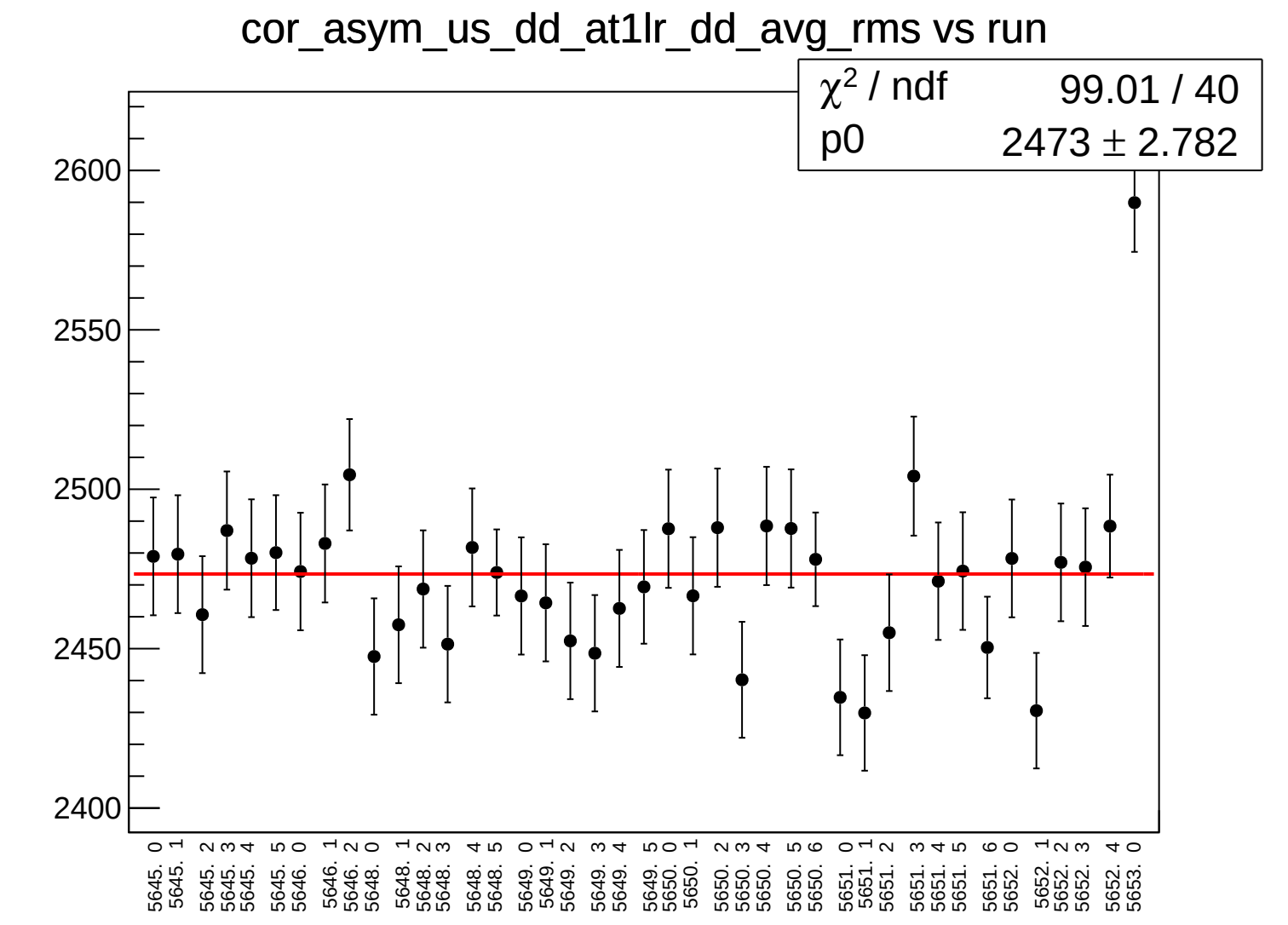

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 50.41 / 40
p0 −530.7 ± 1011
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.979
Std Dev 0
2
1
0
−1
−2

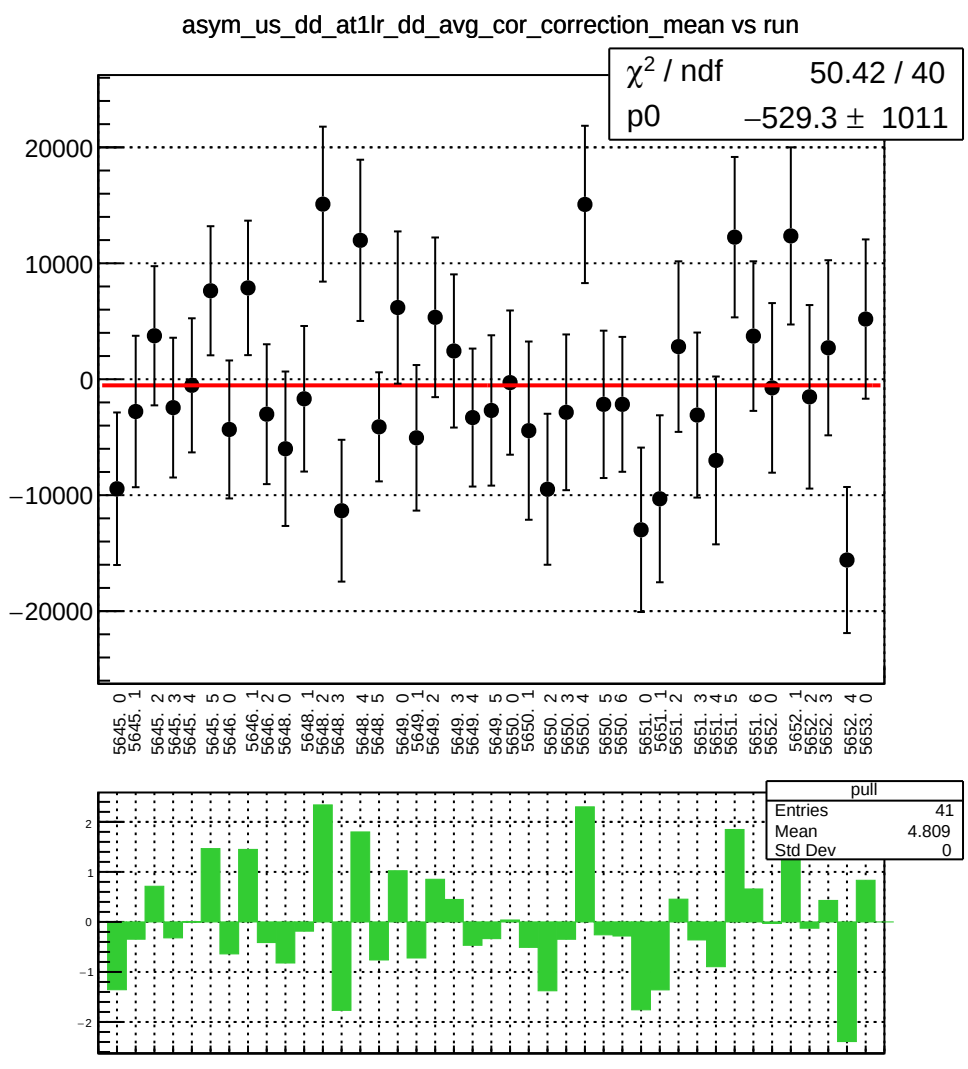

pull1D
Entries 41
Mean 0.01297
Std Dev 1.109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

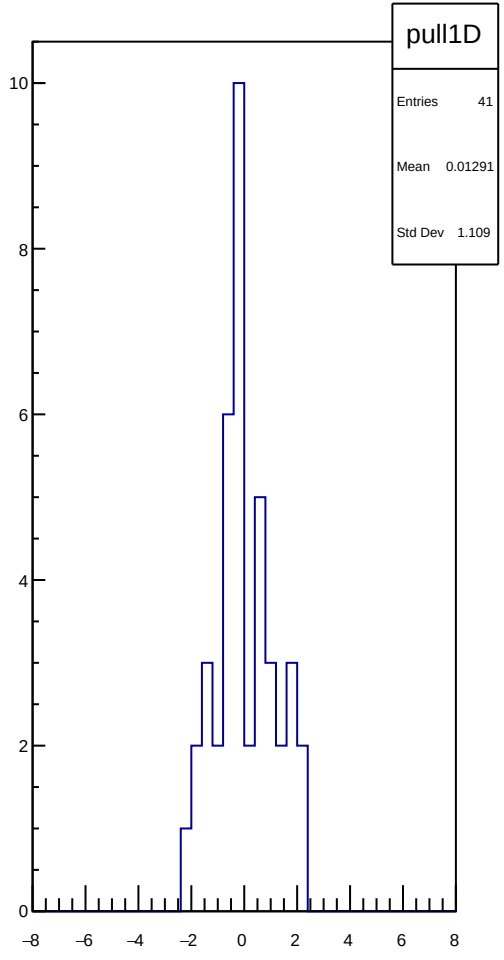

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6854 / 40
p0 632.7 ± 0.7147
800
750
700
650
600
550
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

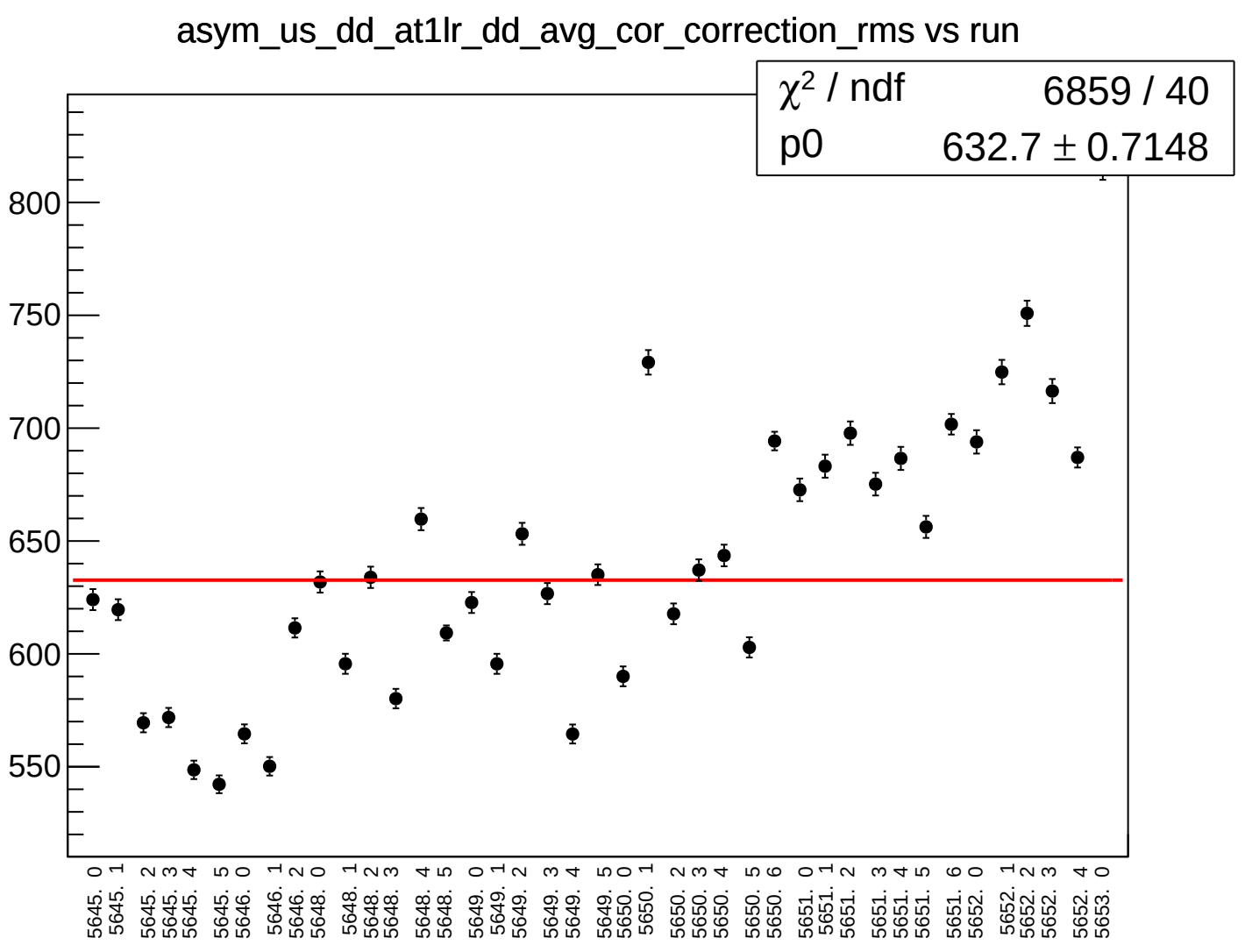

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 49.16 / 40
p0 −2271 ± 3935
pull
Entries 41
Mean −1828
Std Dev 0

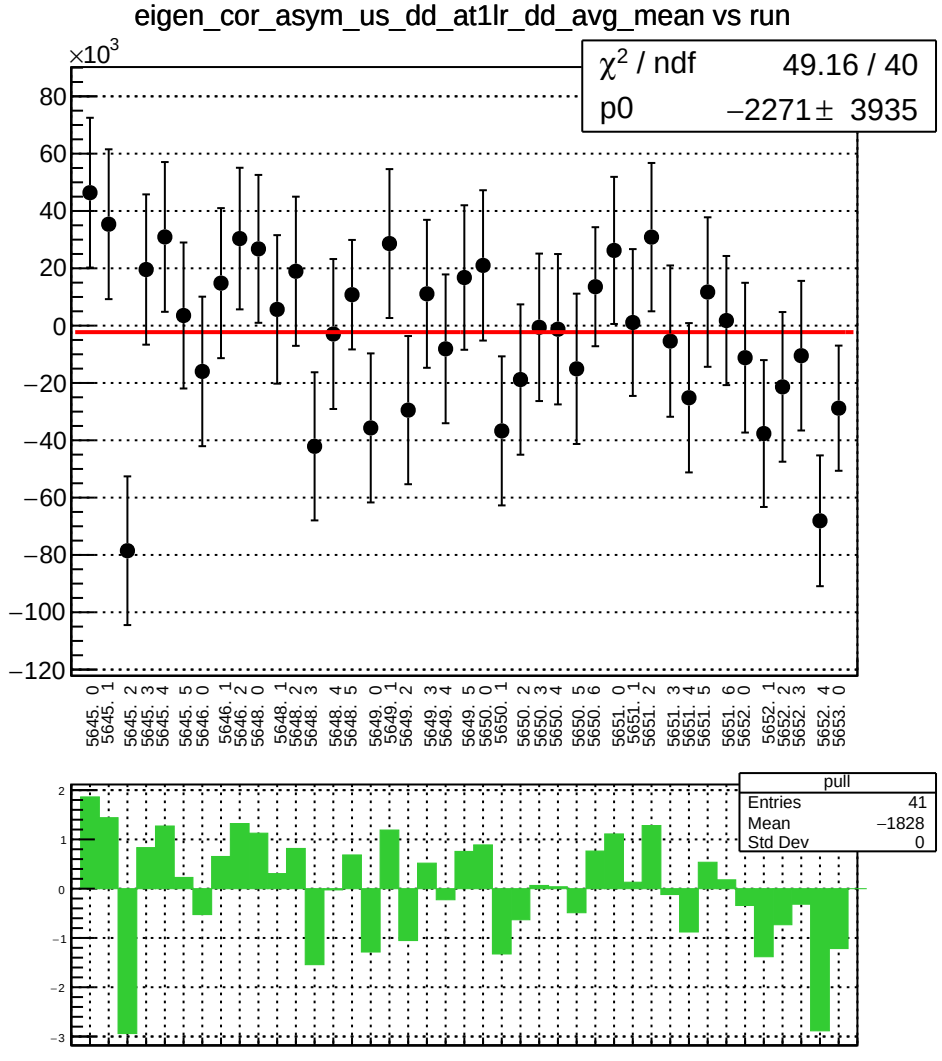

pull1D
Entries 41
Mean 0.002397
Std Dev 1.095

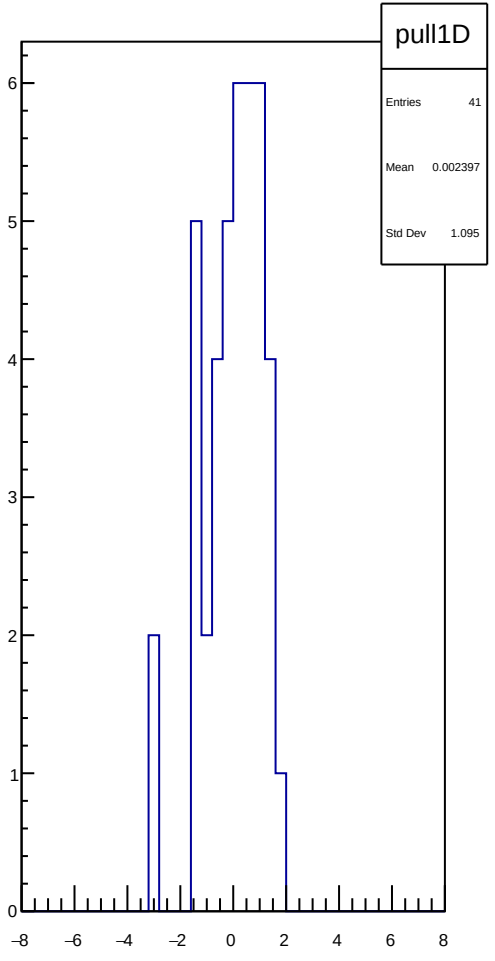

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 99.01 / 40
p0 2473 ± 2.782
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

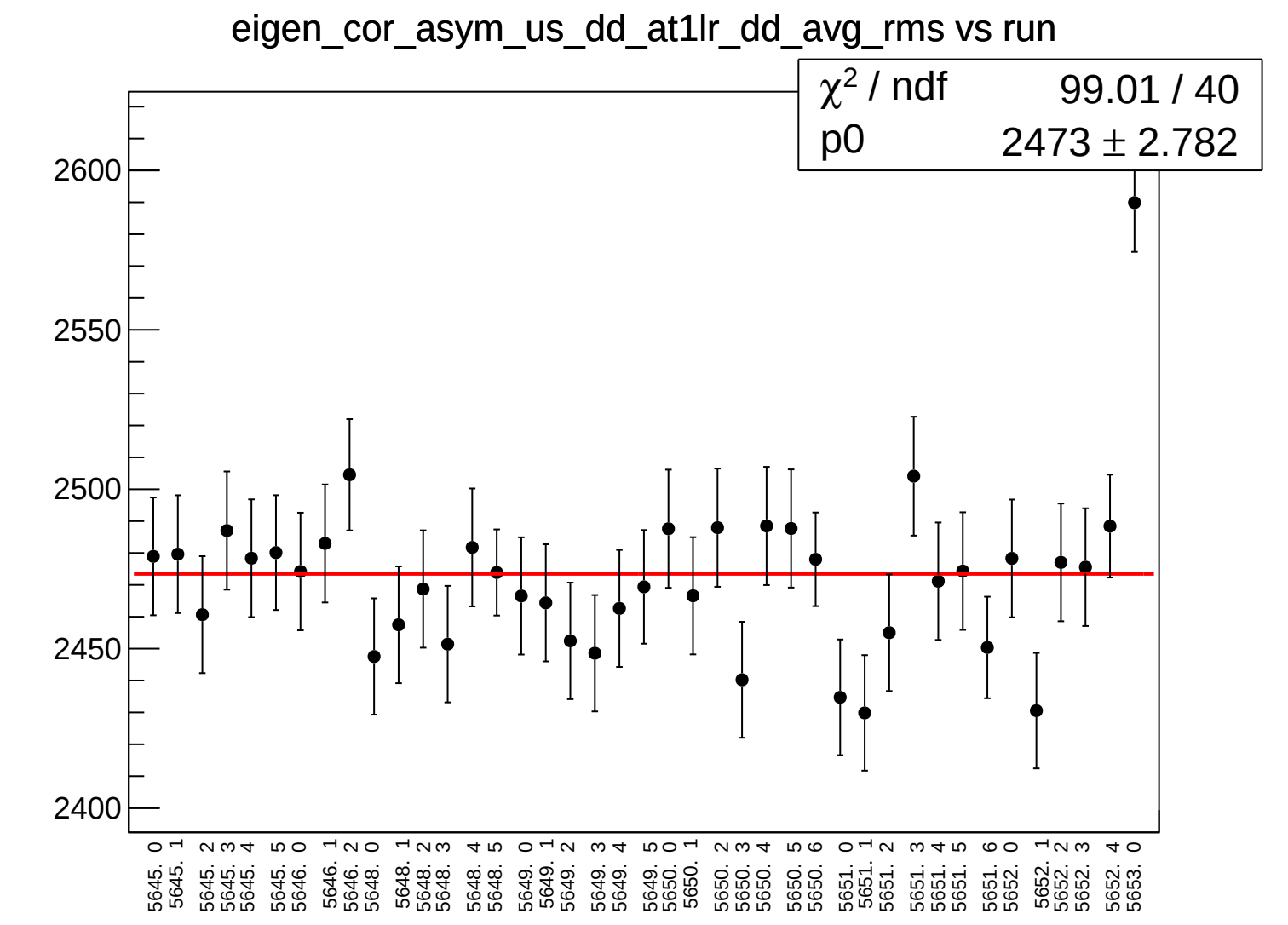

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 50.42 / 40
p0 −529.3 ± 1011
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.809
Std Dev 0
2
1
0
−1
−2

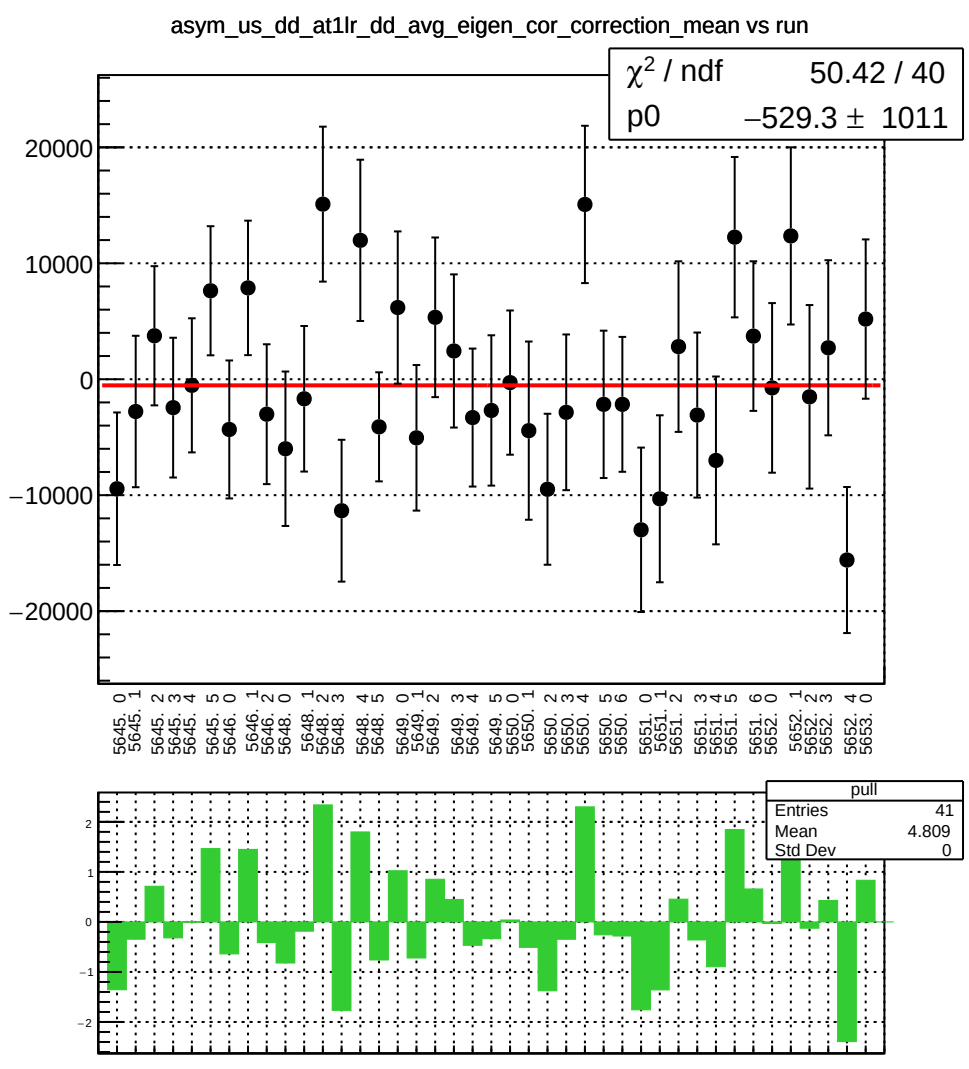

pull1D
Entries 41
Mean 0.01291
Std Dev 1.109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

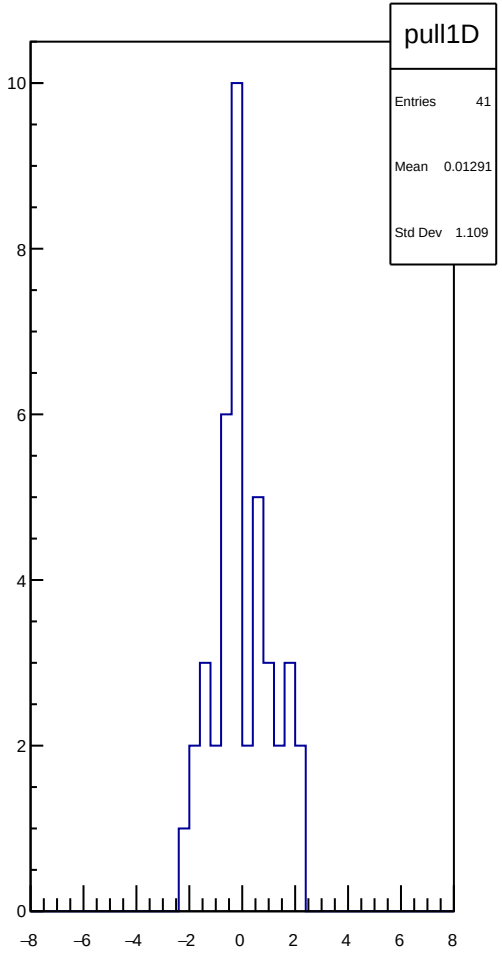

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6859 / 40
p0 632.7 ± 0.7148
800
750
700
650
600
550
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

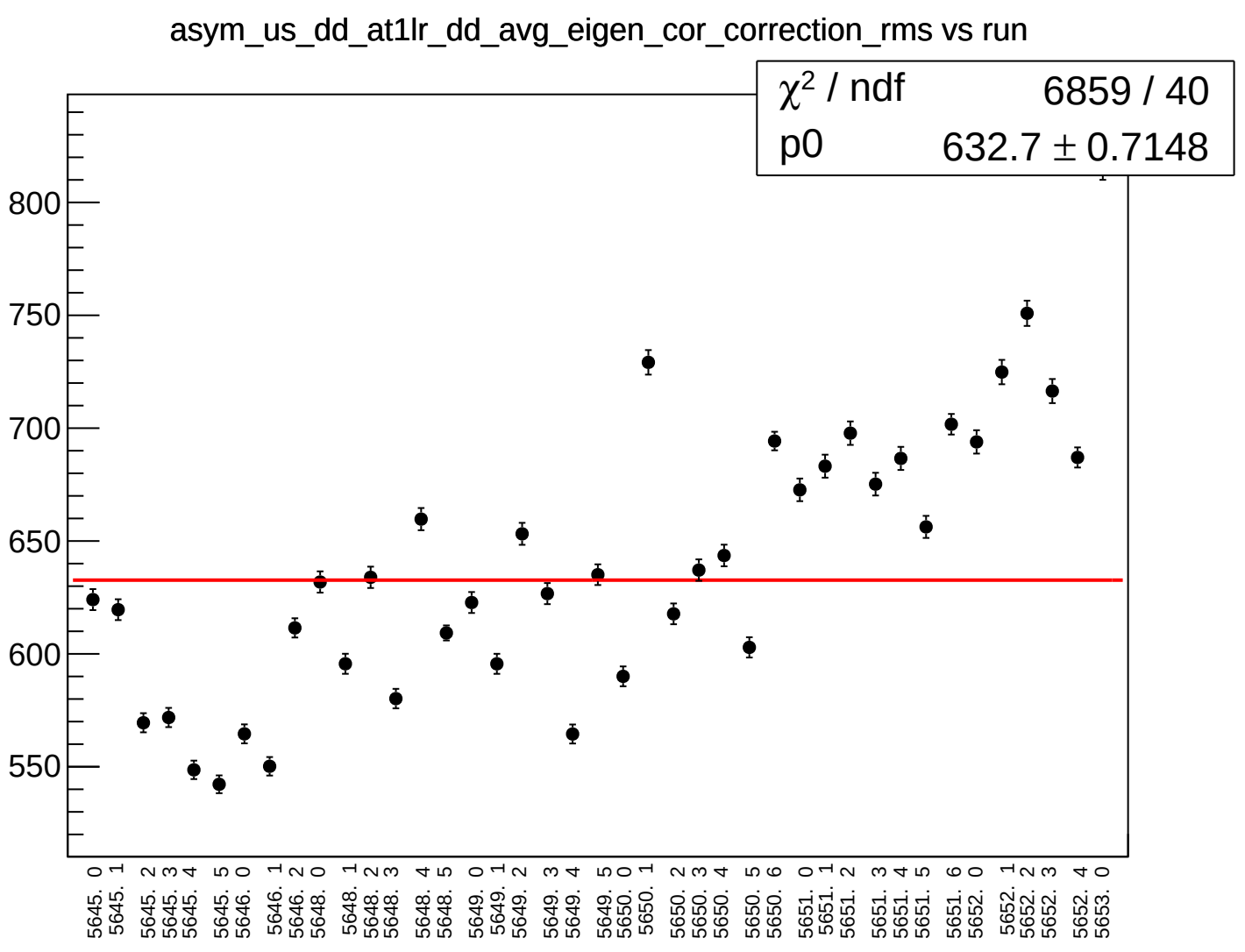

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 49.16 / 40
p0 −2271 ± 3935
pull
Entries 41
Mean −1828
Std Dev 0


pull1D
Entries 41
Mean 0.002397
Std Dev 1.095


eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 99.01 / 40
p0 2473 ± 2.782
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.42 / 40
p0 −529.3 ± 1011
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.809
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.01291
Std Dev 1.109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6859 / 40
p0 632.7 ± 0.7148
800
750
700
650
600
550
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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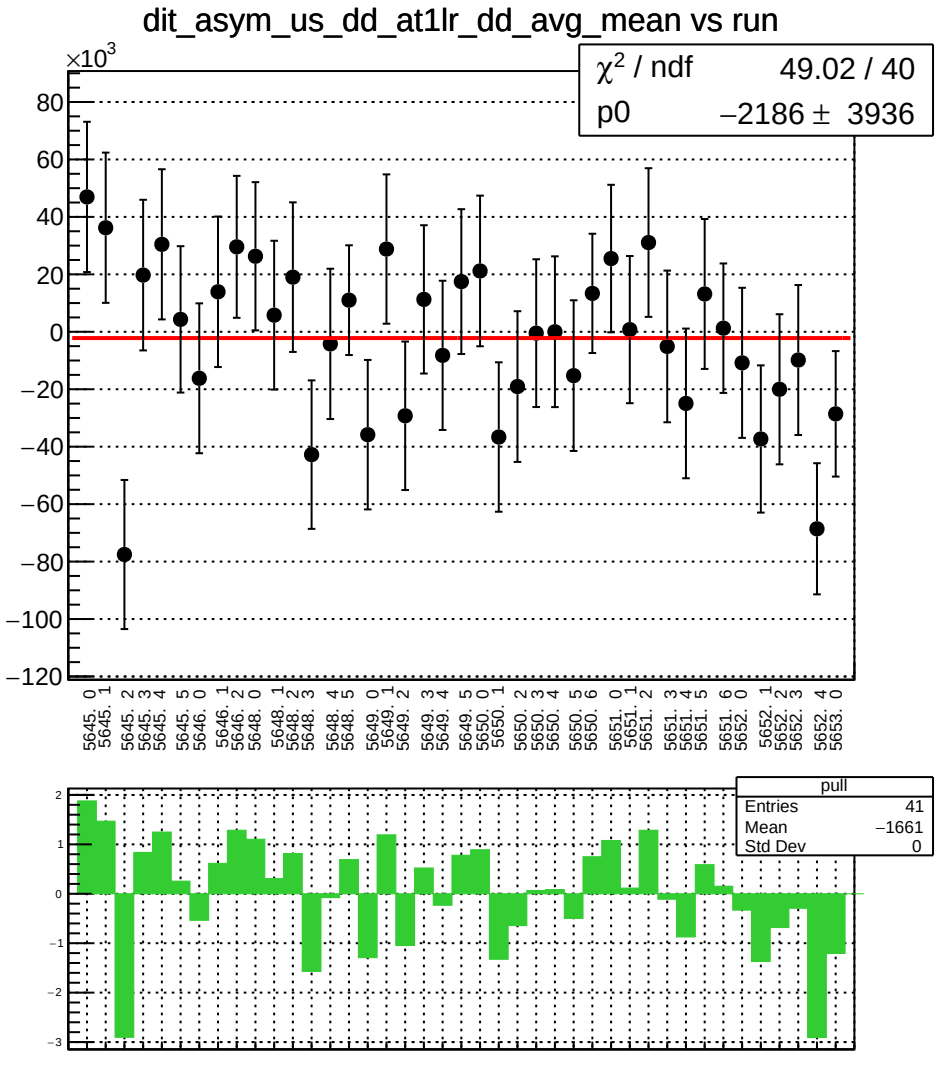
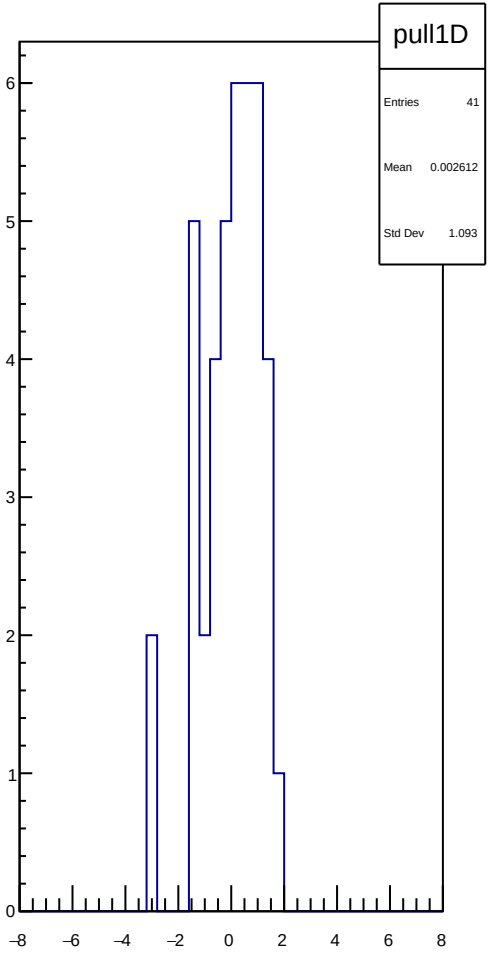
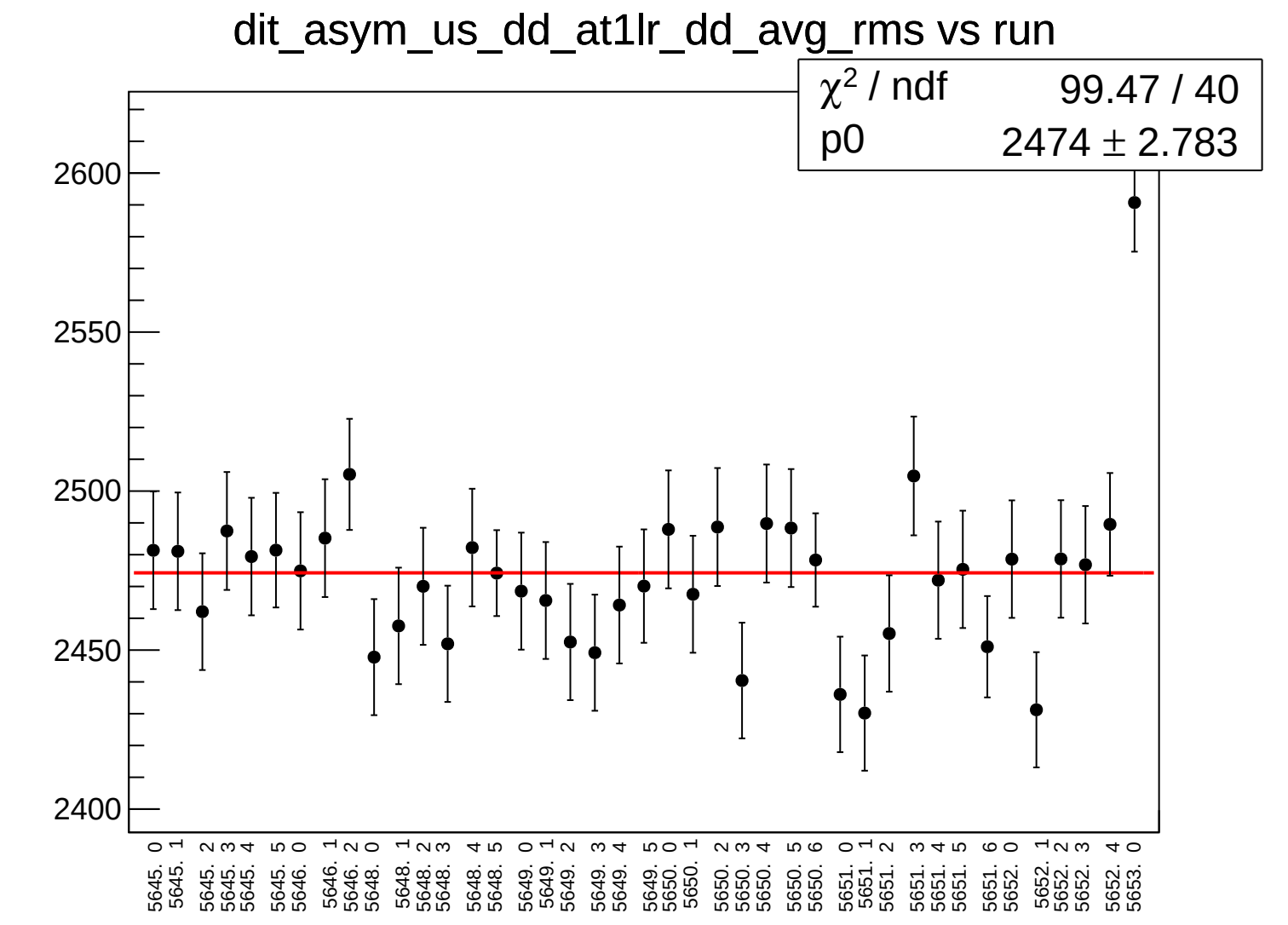
5652. 4
5653. 0


dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 49.02 / 40
p0 −2186 ± 3936
pull
Entries 41
Mean −1661
Std Dev 0


pull1D
Entries 41
Mean 0.002612
Std Dev 1.093


dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 99.47 / 40
p0 2474 ± 2.783
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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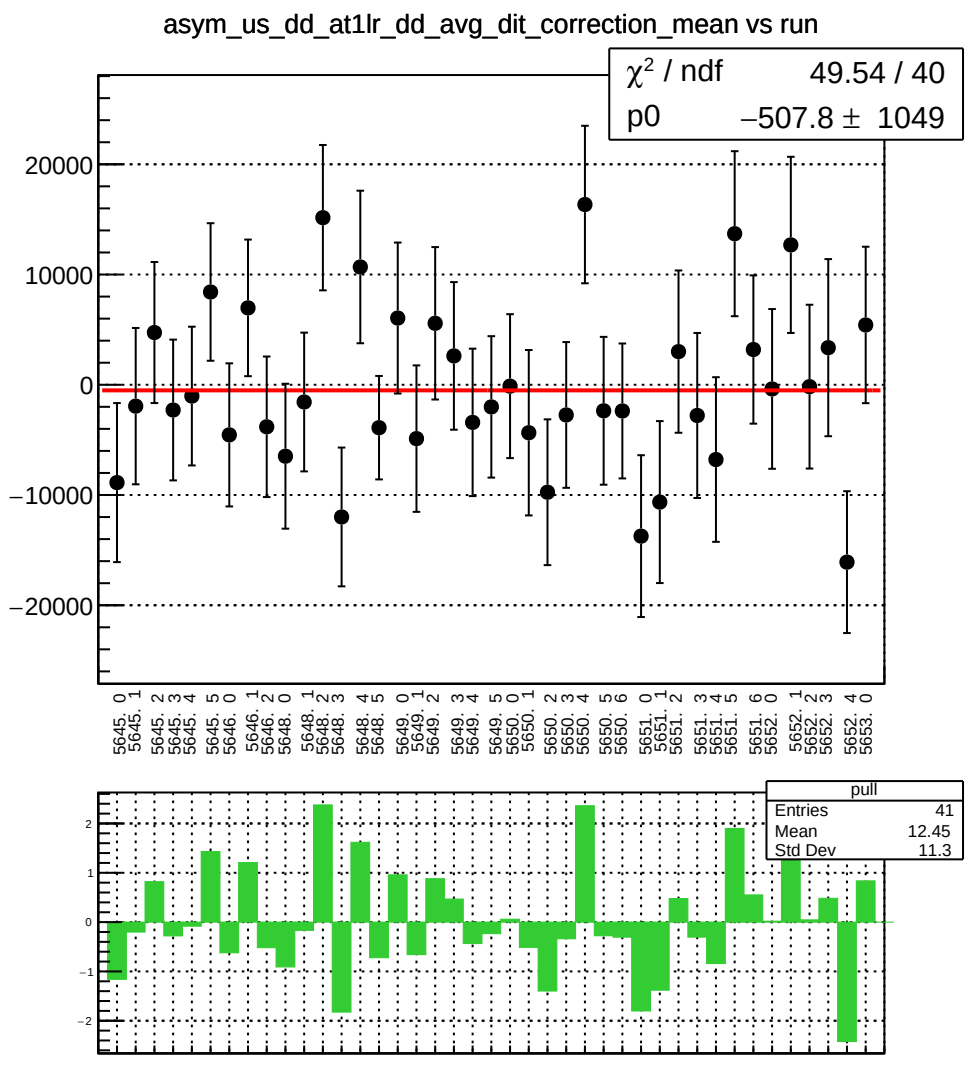
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 49.54 / 40
p0 −507.8 ± 1049
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
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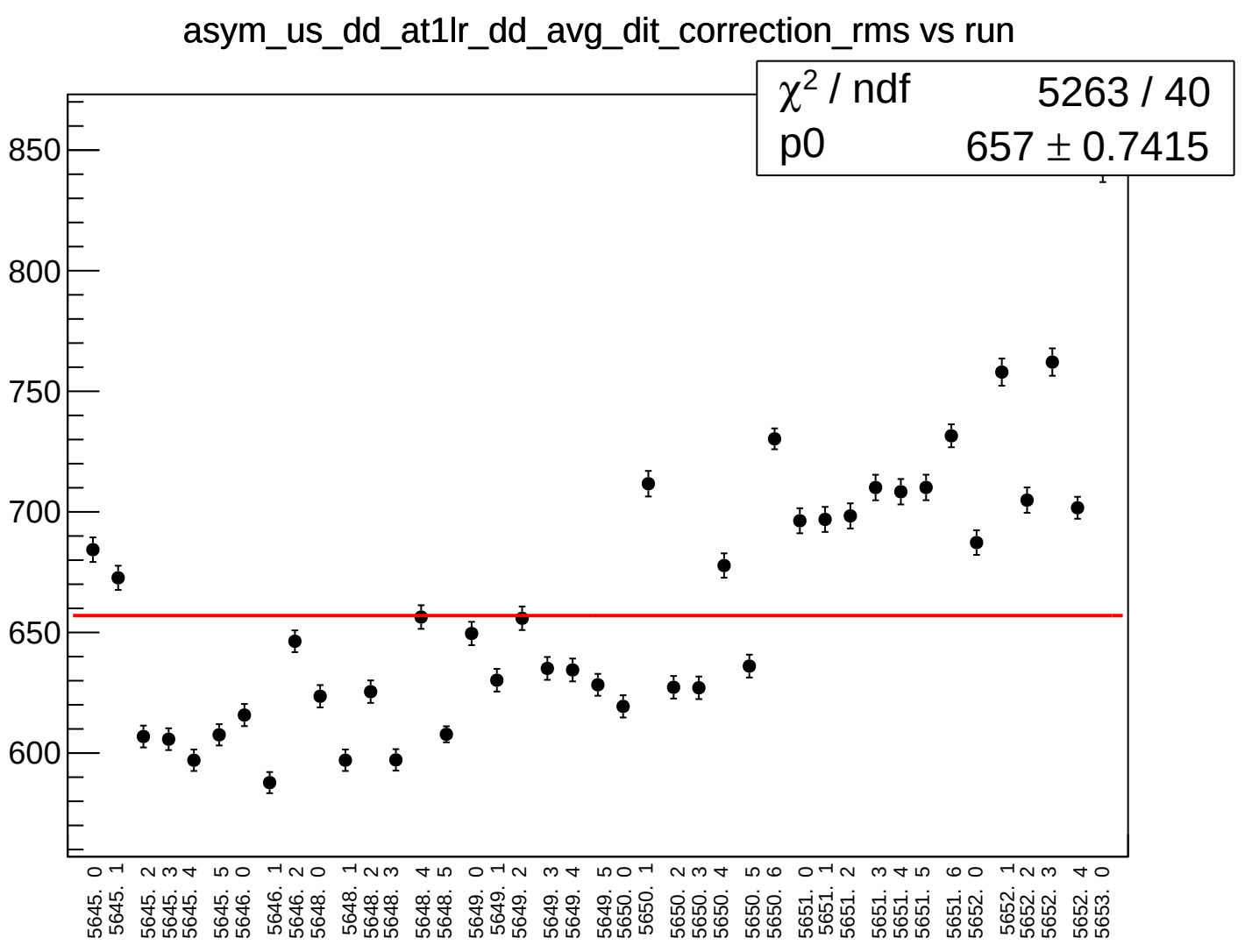
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.45
Std Dev 11.3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01828
Std Dev 1.099
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_dit_correction_rms vs run
χ² / ndf 5263 / 40
p0 657 ± 0.7415
850
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 6
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5652. 2
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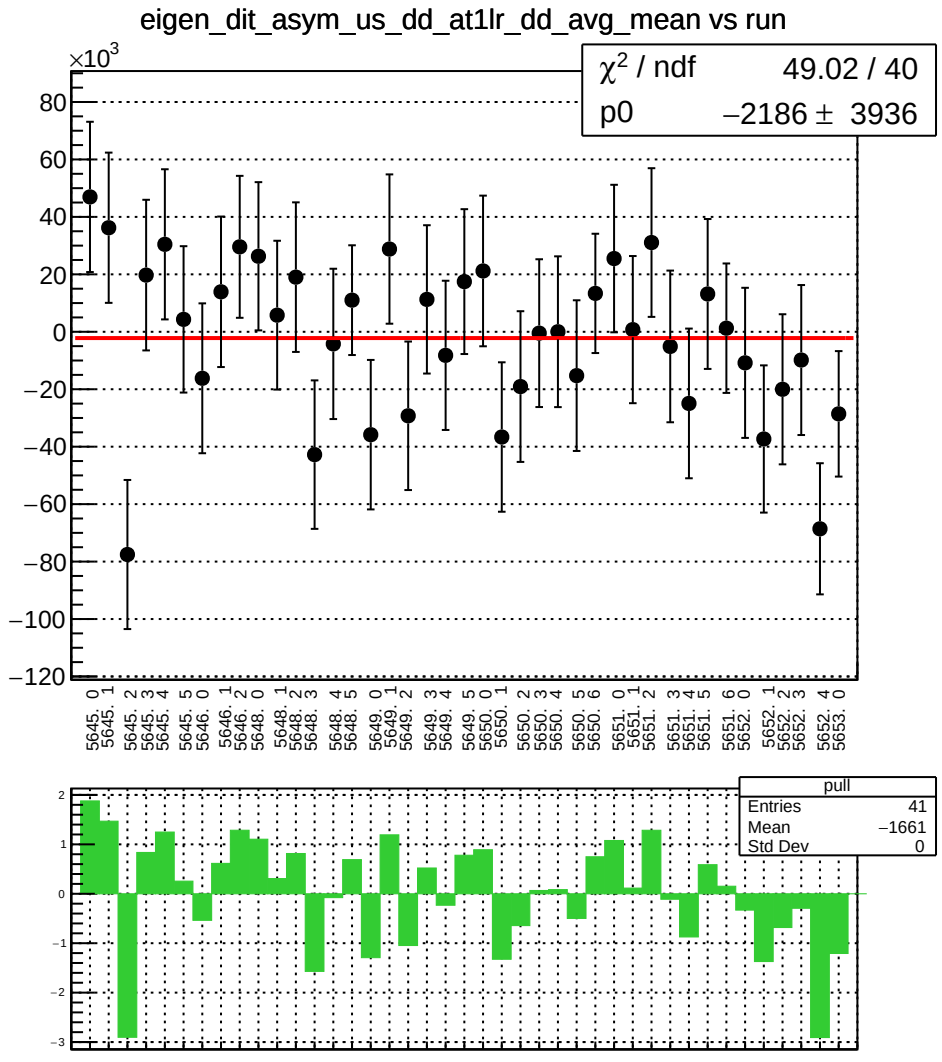
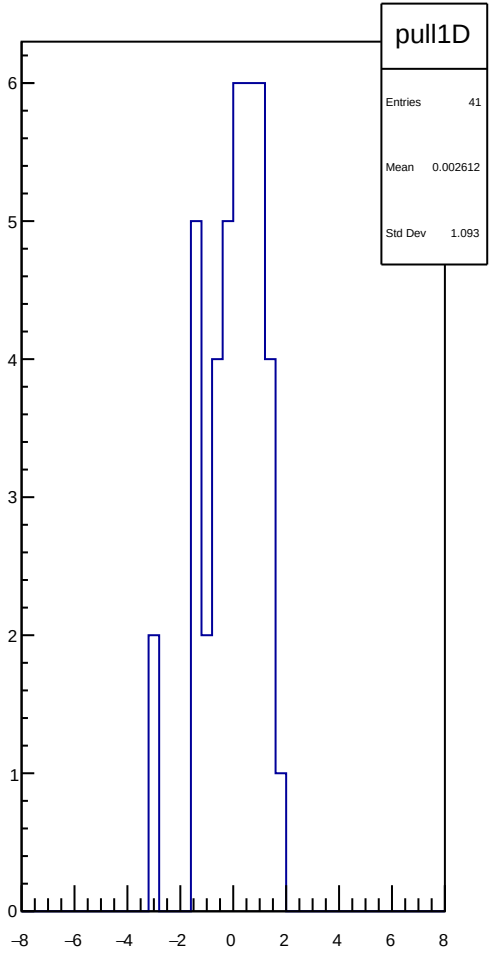
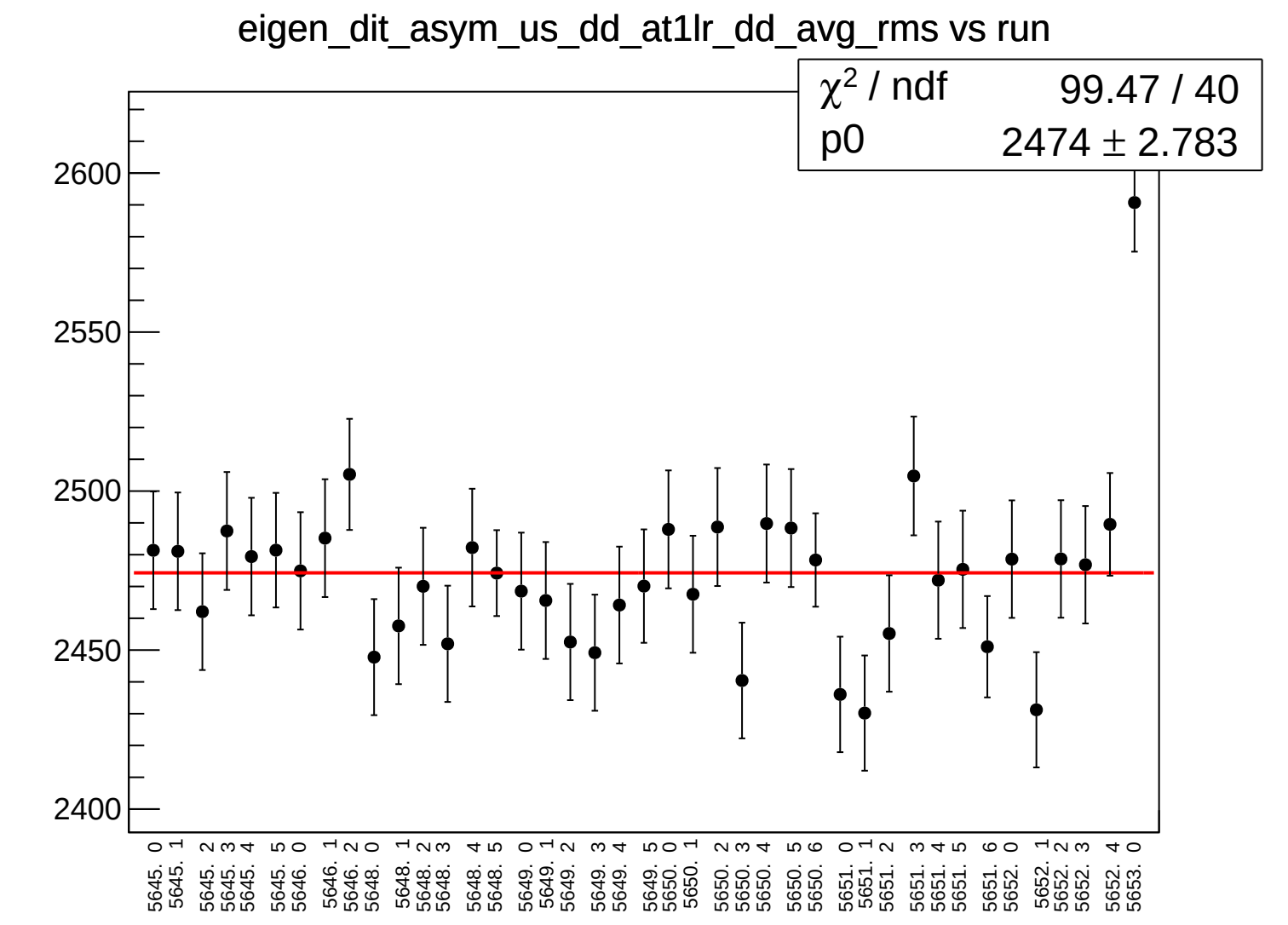
5652. 4
5653. 0


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 49.02 / 40
p0 −2186 ± 3936
pull
Entries 41
Mean −1661
Std Dev 0


pull1D
Entries 41
Mean 0.002612
Std Dev 1.093


eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 99.47 / 40
p0 2474 ± 2.783
2600
2550
2500
2450
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
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5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
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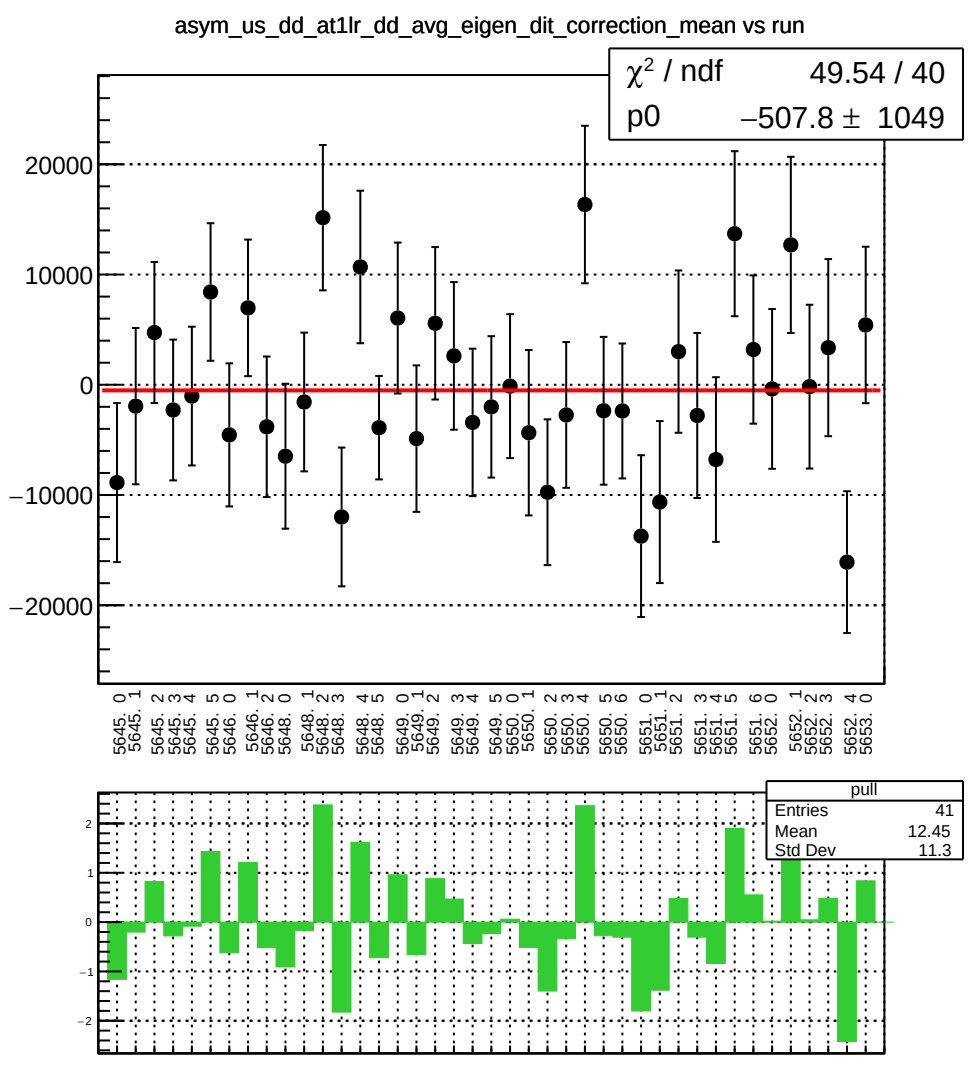
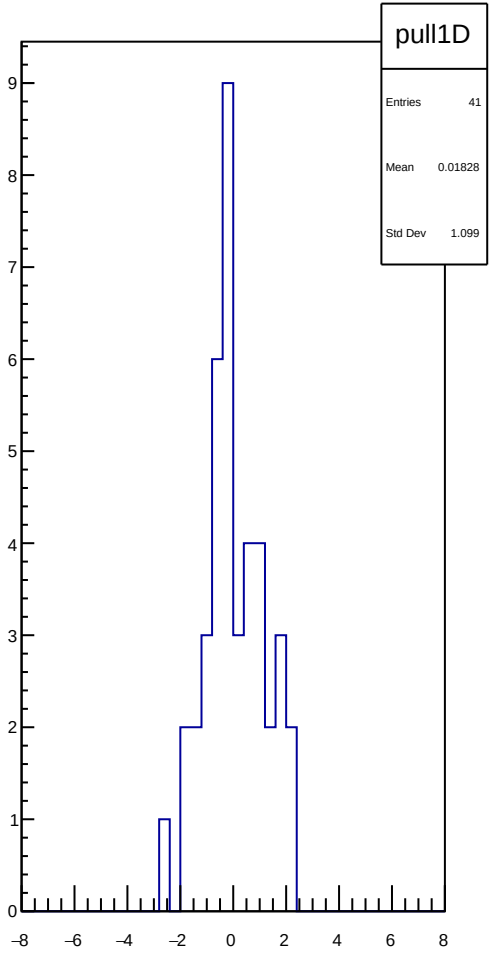
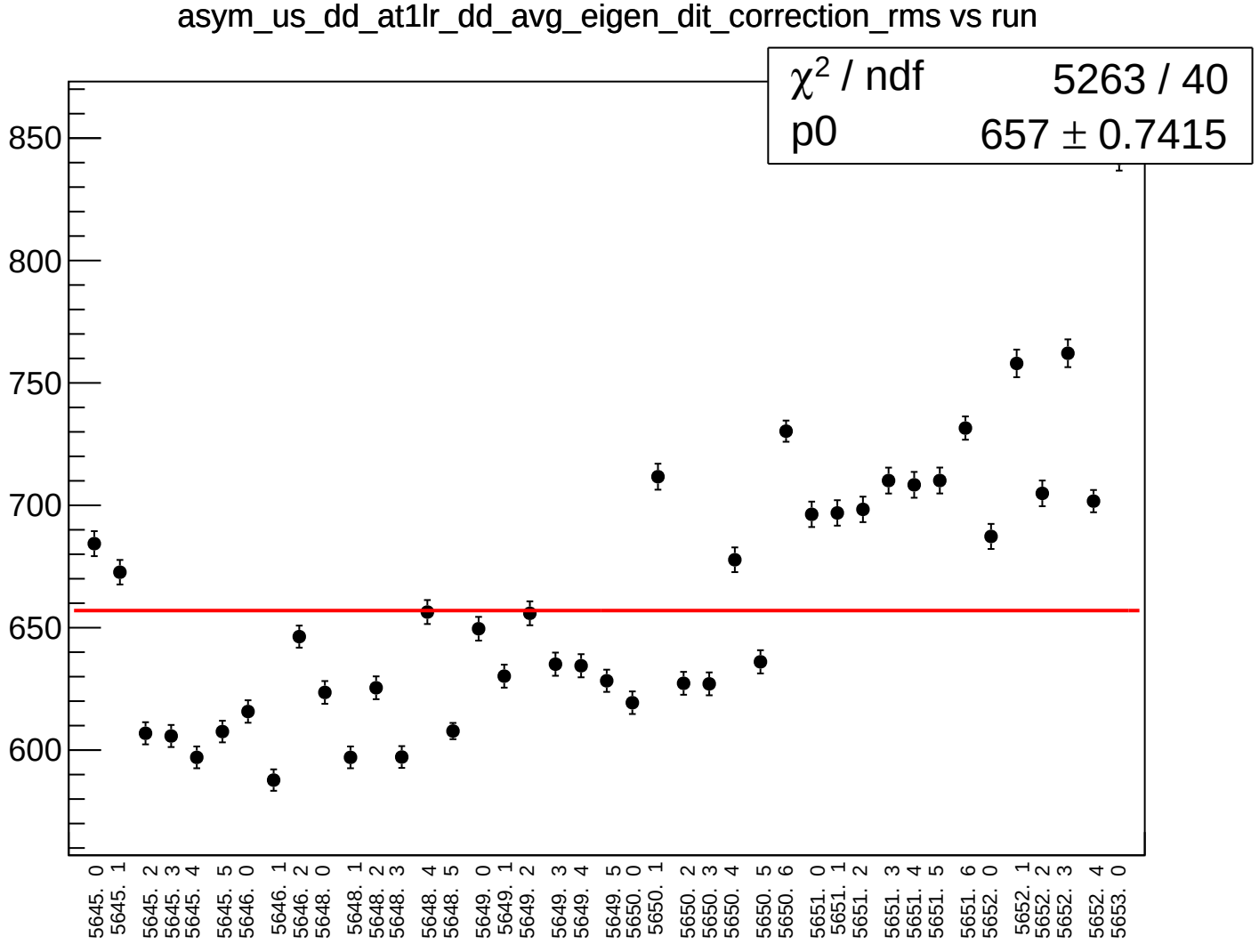
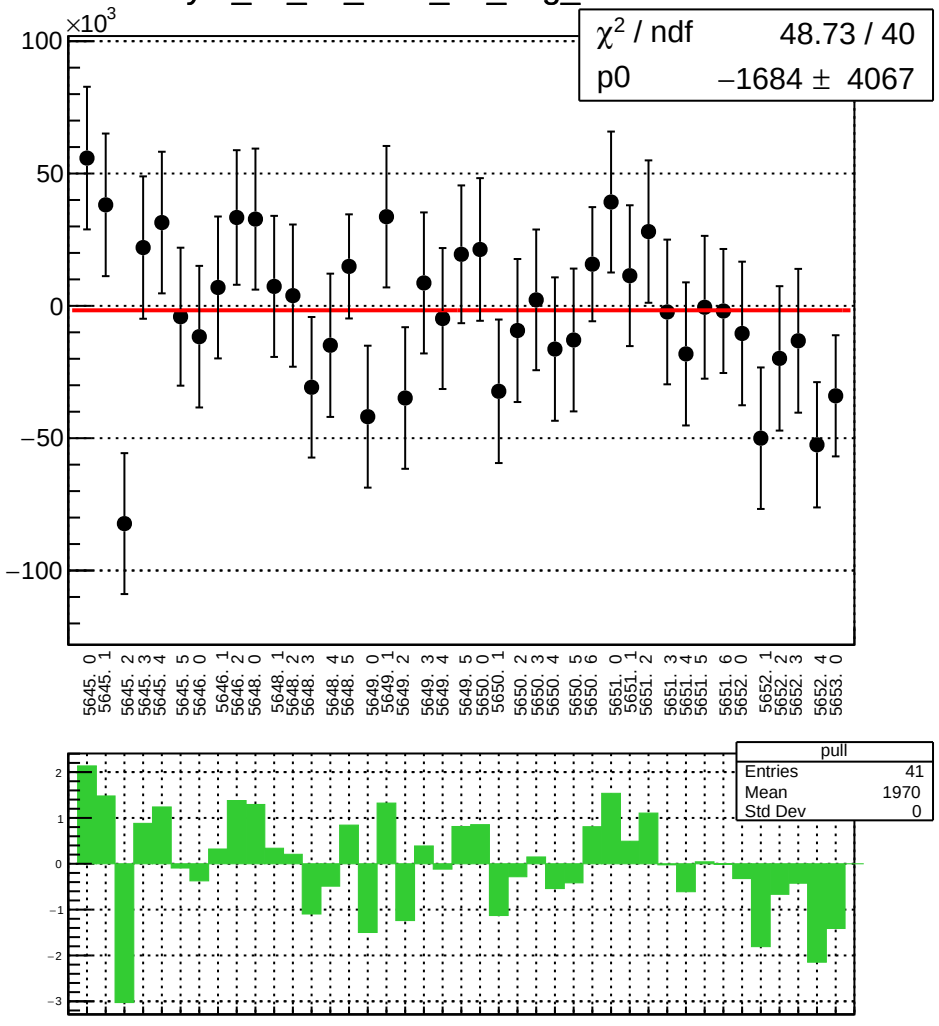
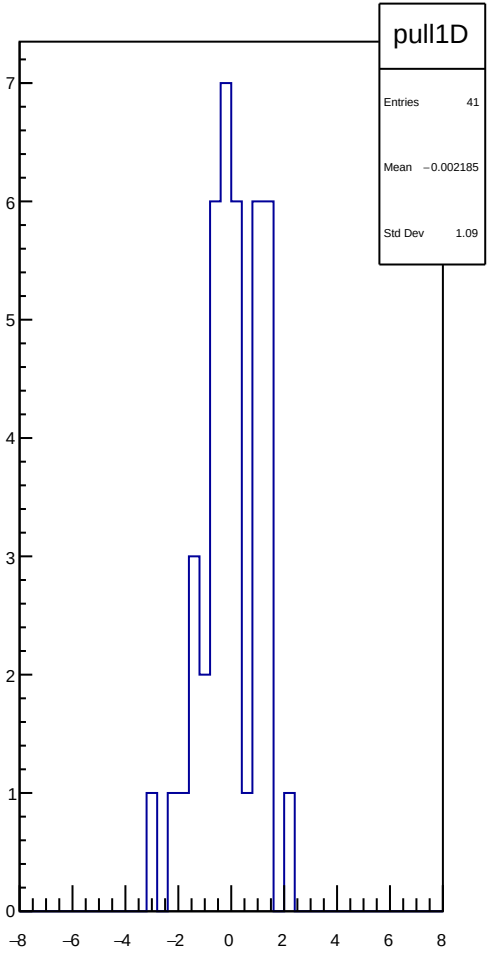
5652. 2
5652. 3
5652. 4
5653. 0

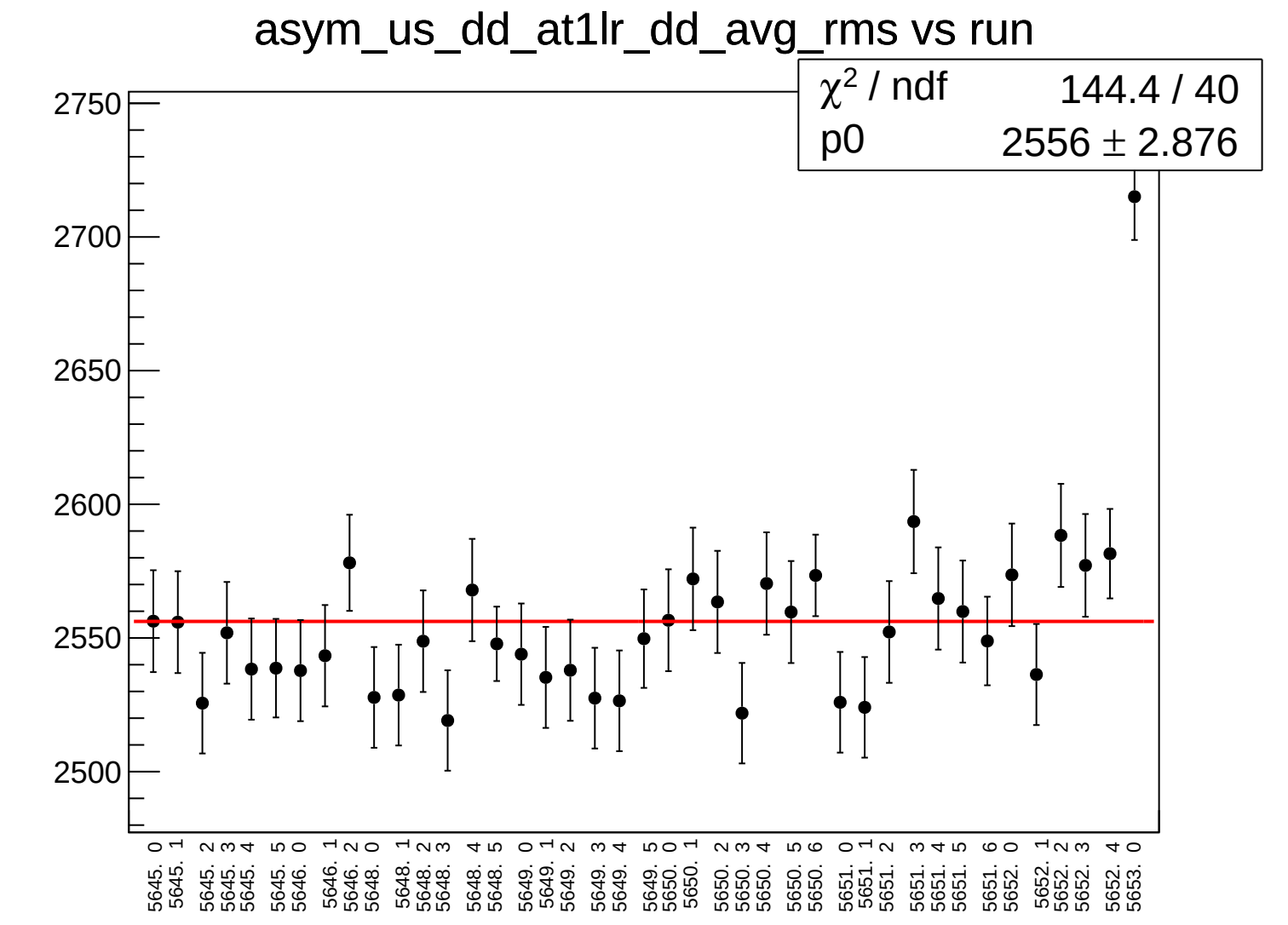

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.54 / 40
p0 −507.8 ± 1049
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.45
Std Dev 11.3
2
1
0
−1
−2

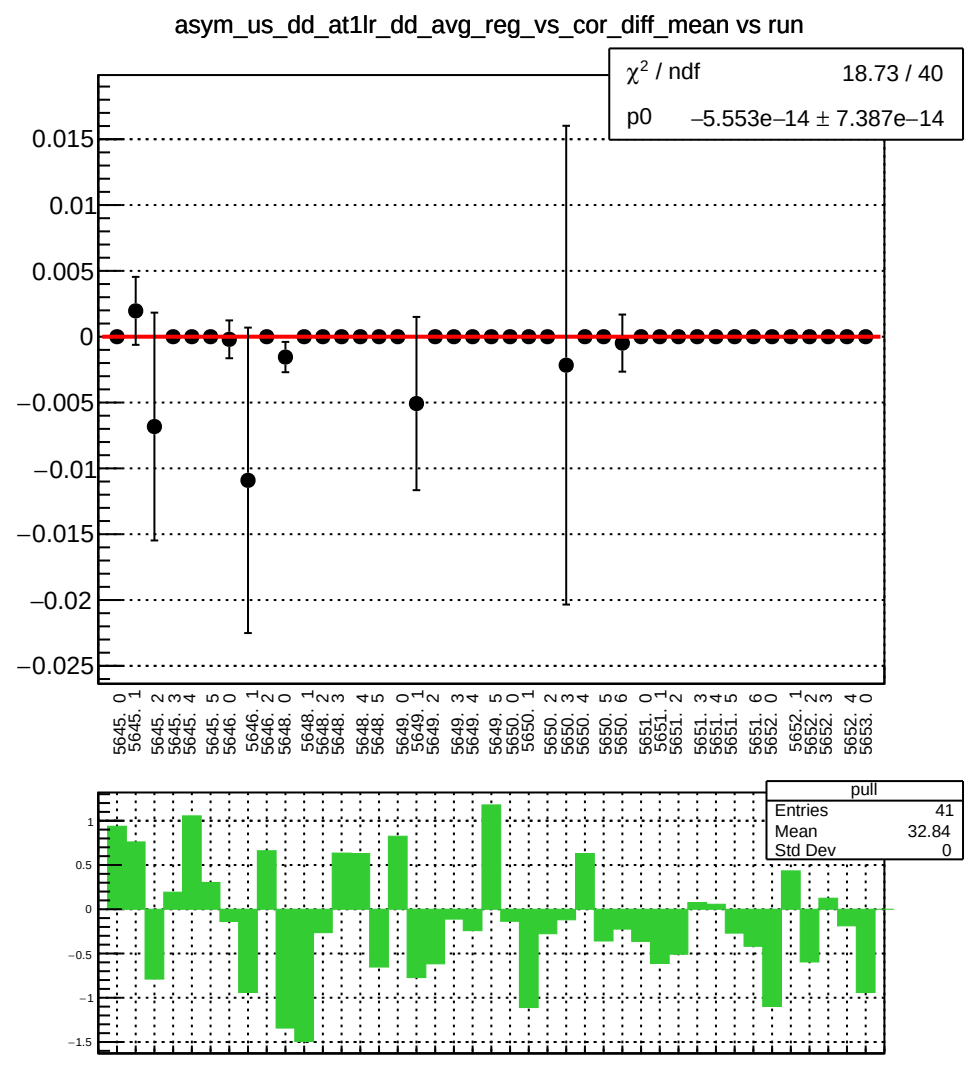

pull1D
Entries 41
Mean 0.01828
Std Dev 1.099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

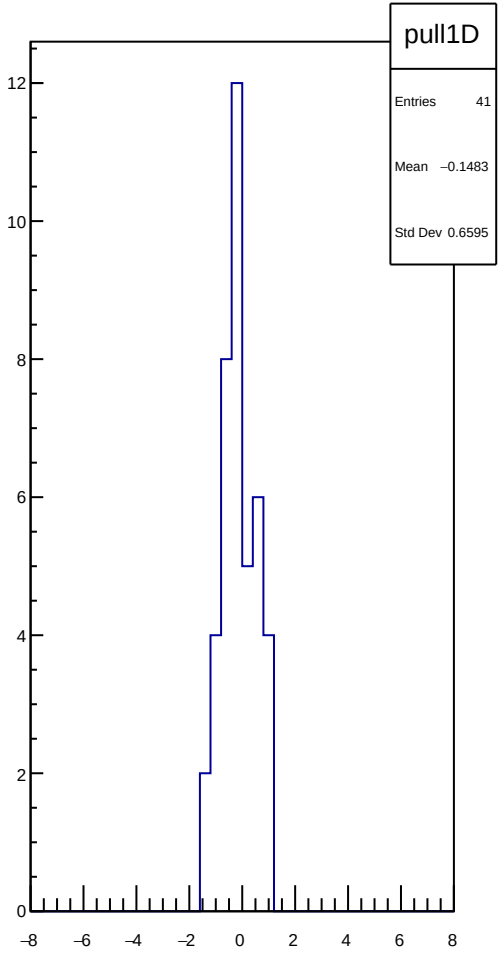

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5263 / 40
p0 657 ± 0.7415
850
800
750
700
650
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

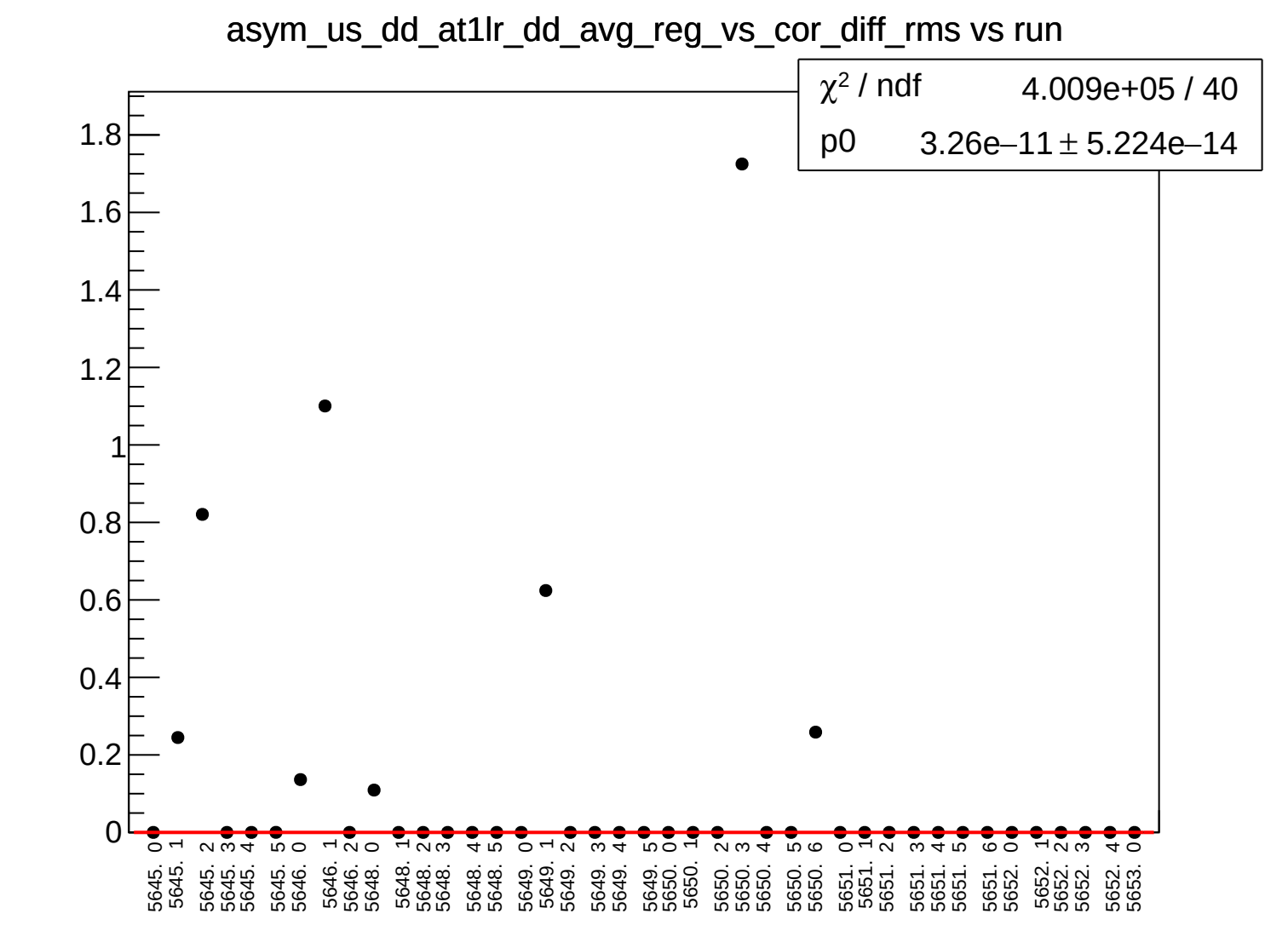

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 48.73 / 40
p0 −1684 ± 4067
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1970
Std Dev 0
2
1
0
−1
−2
−3

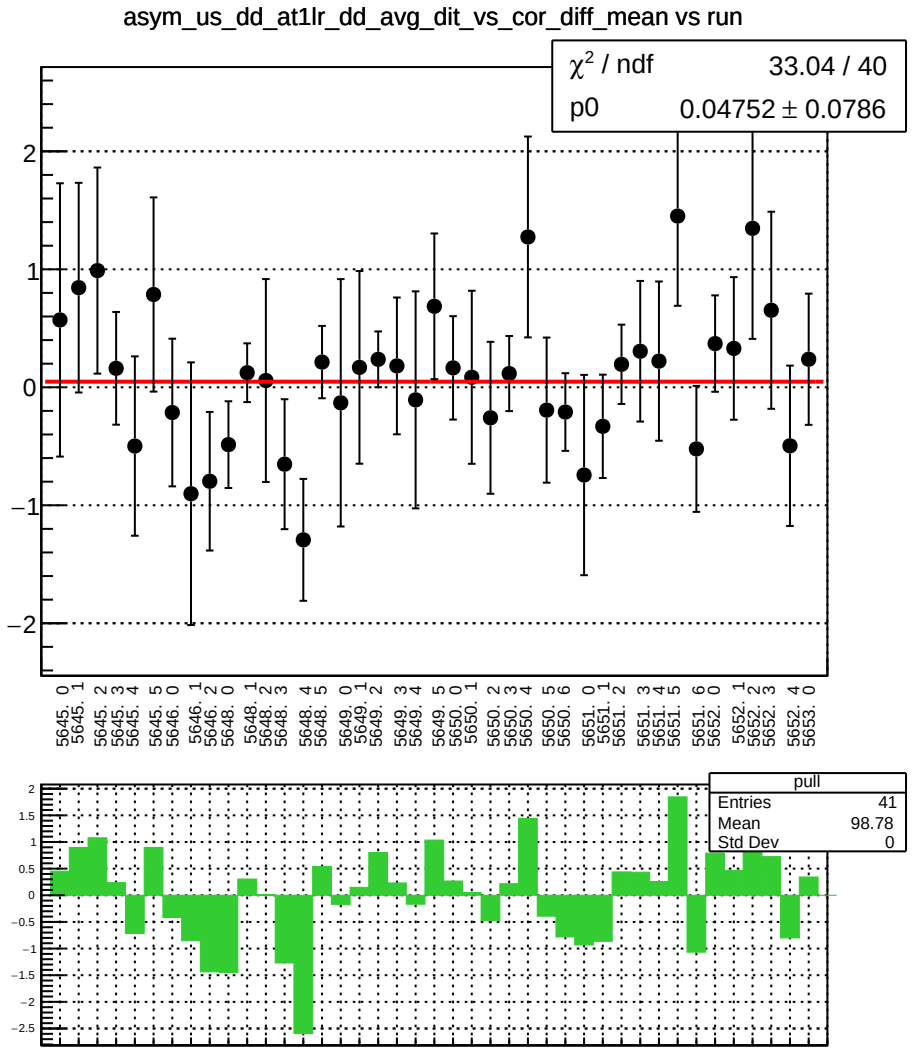

pull1D
Entries 41
Mean −0.002185
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

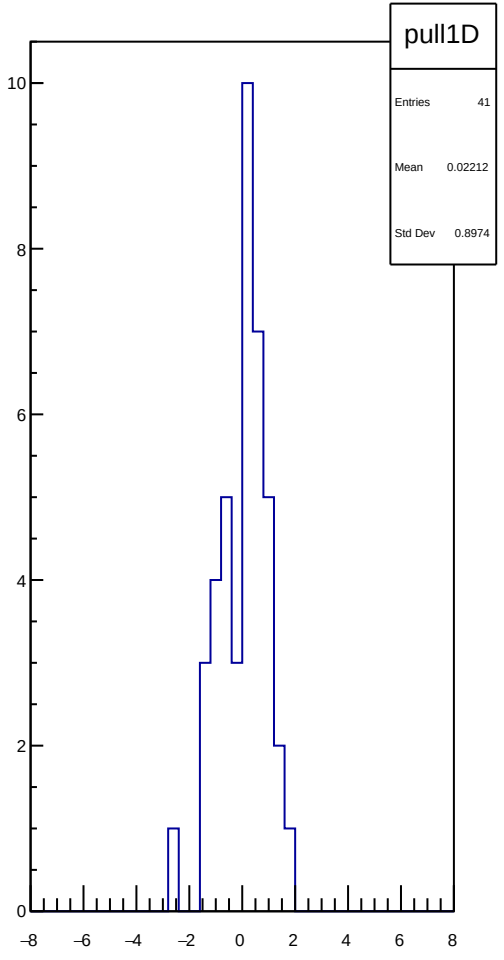

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 144.4 / 40
p0 2556 ± 2.876
2750
2700
2650
2600
2550
2500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

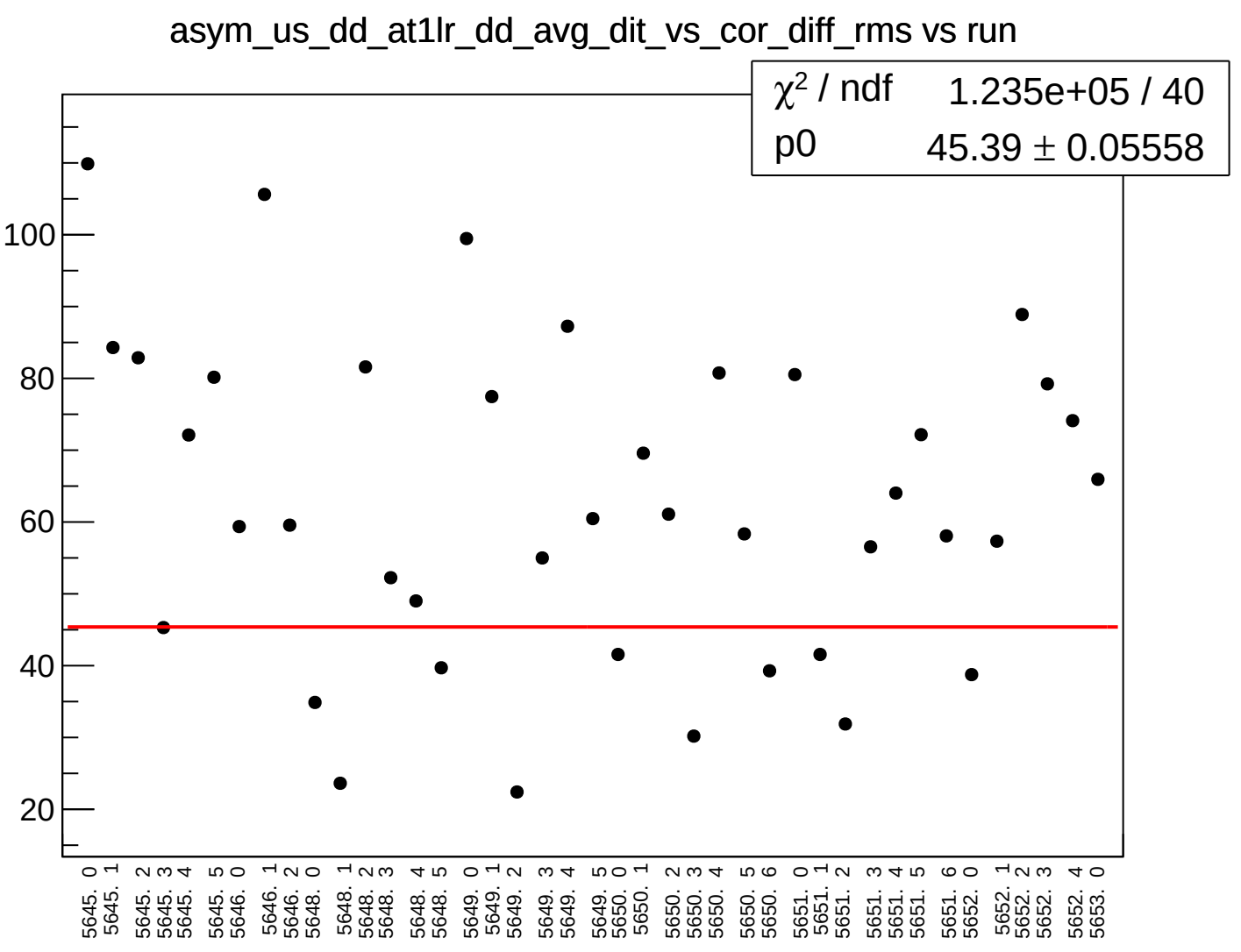

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 18.73 / 40
p0 −5.553e−14 ± 7.387e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.84
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

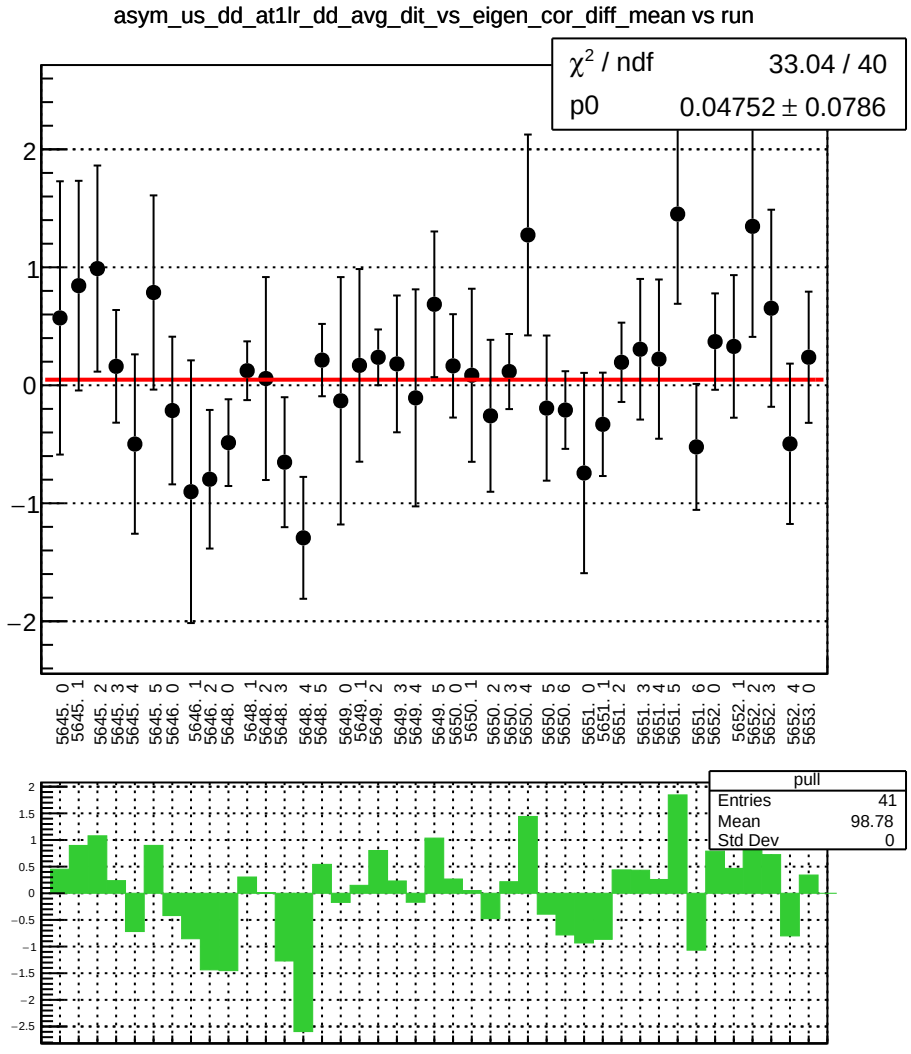

pull1D
Entries 41
Mean −0.1483
Std Dev 0.6595
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

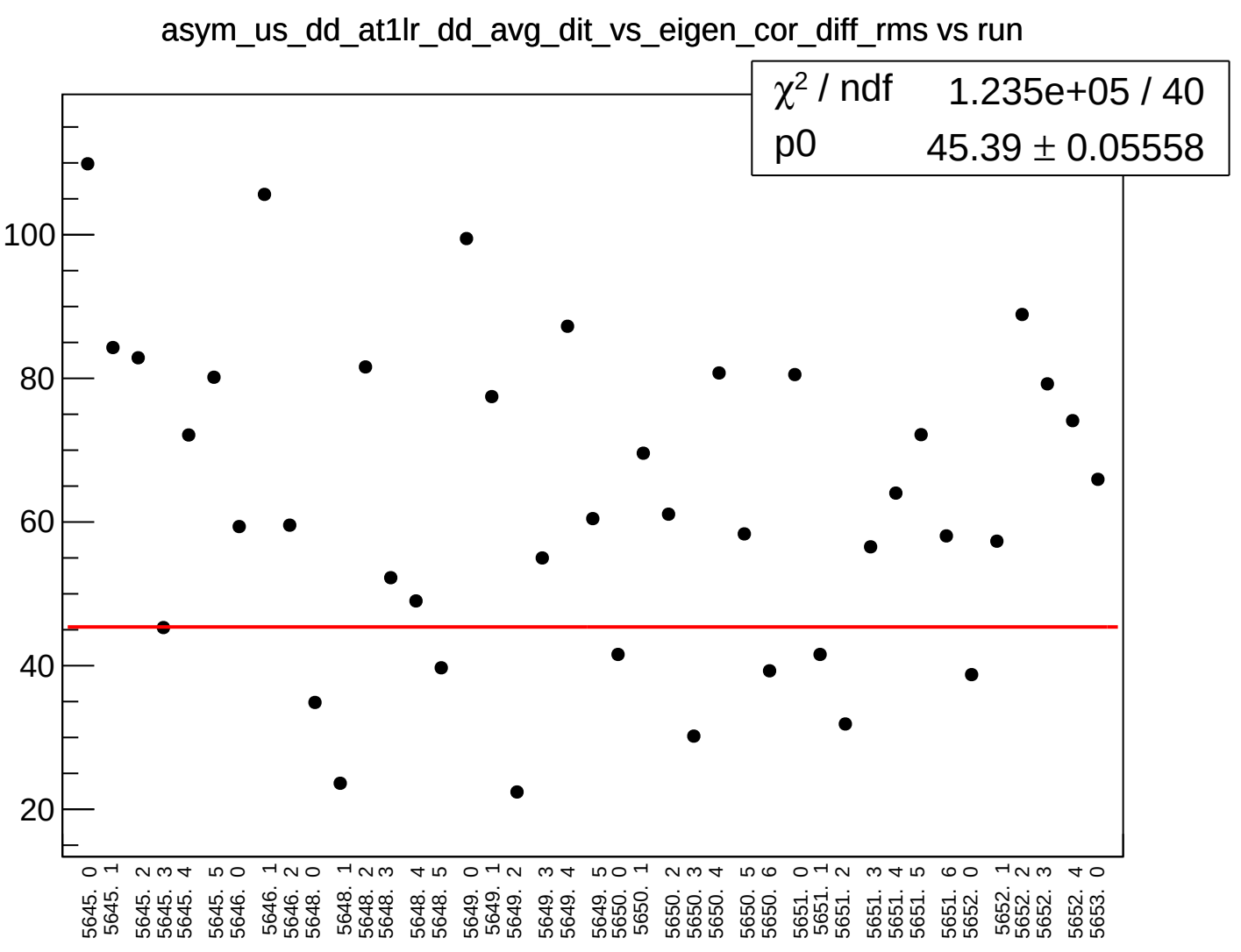

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.009e+05 / 40
p0 3.26e−11 ± 5.224e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

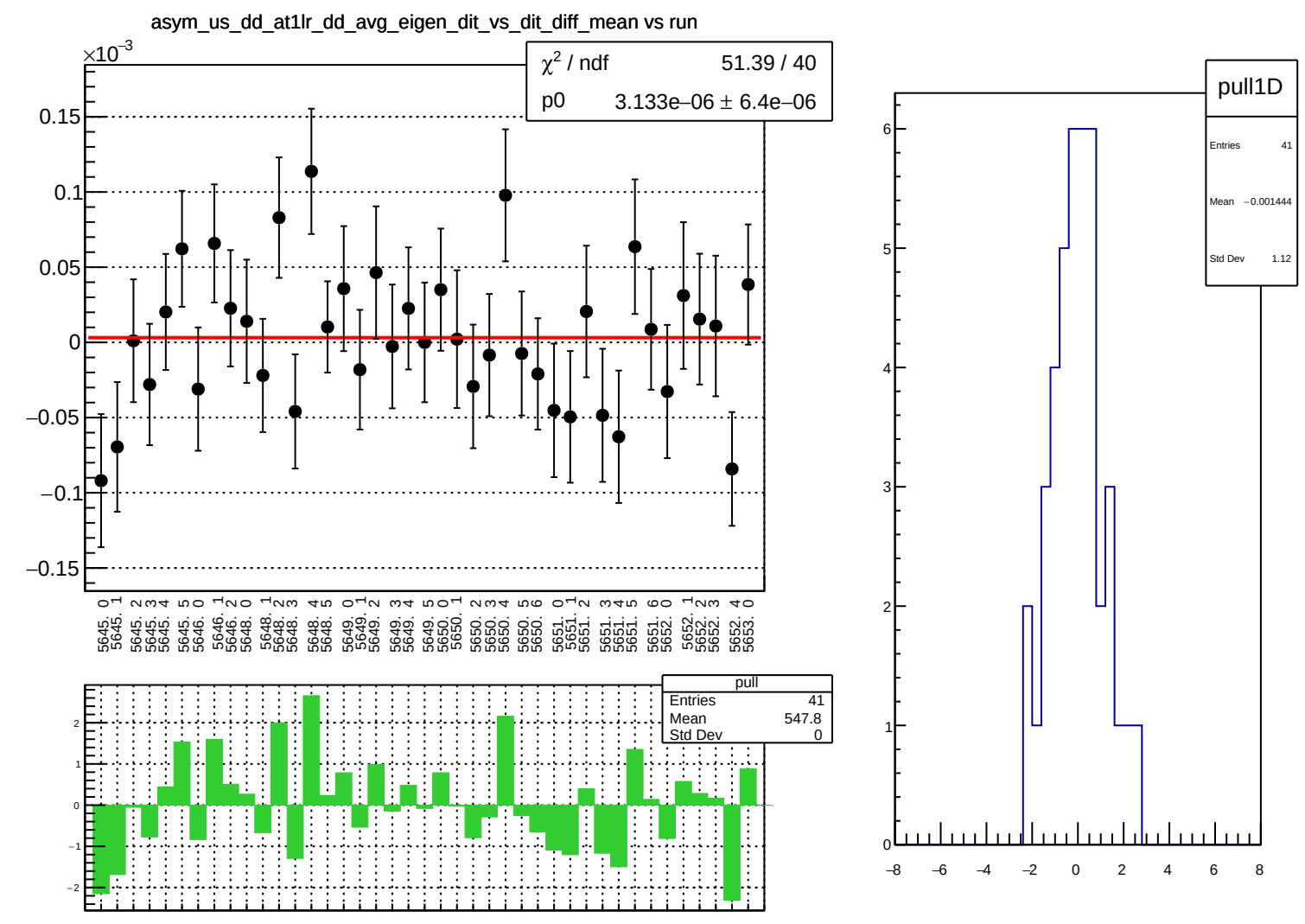

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.04 / 40
p0 0.04752 ± 0.0786
pull
Entries 41
Mean 98.78
Std Dev 0

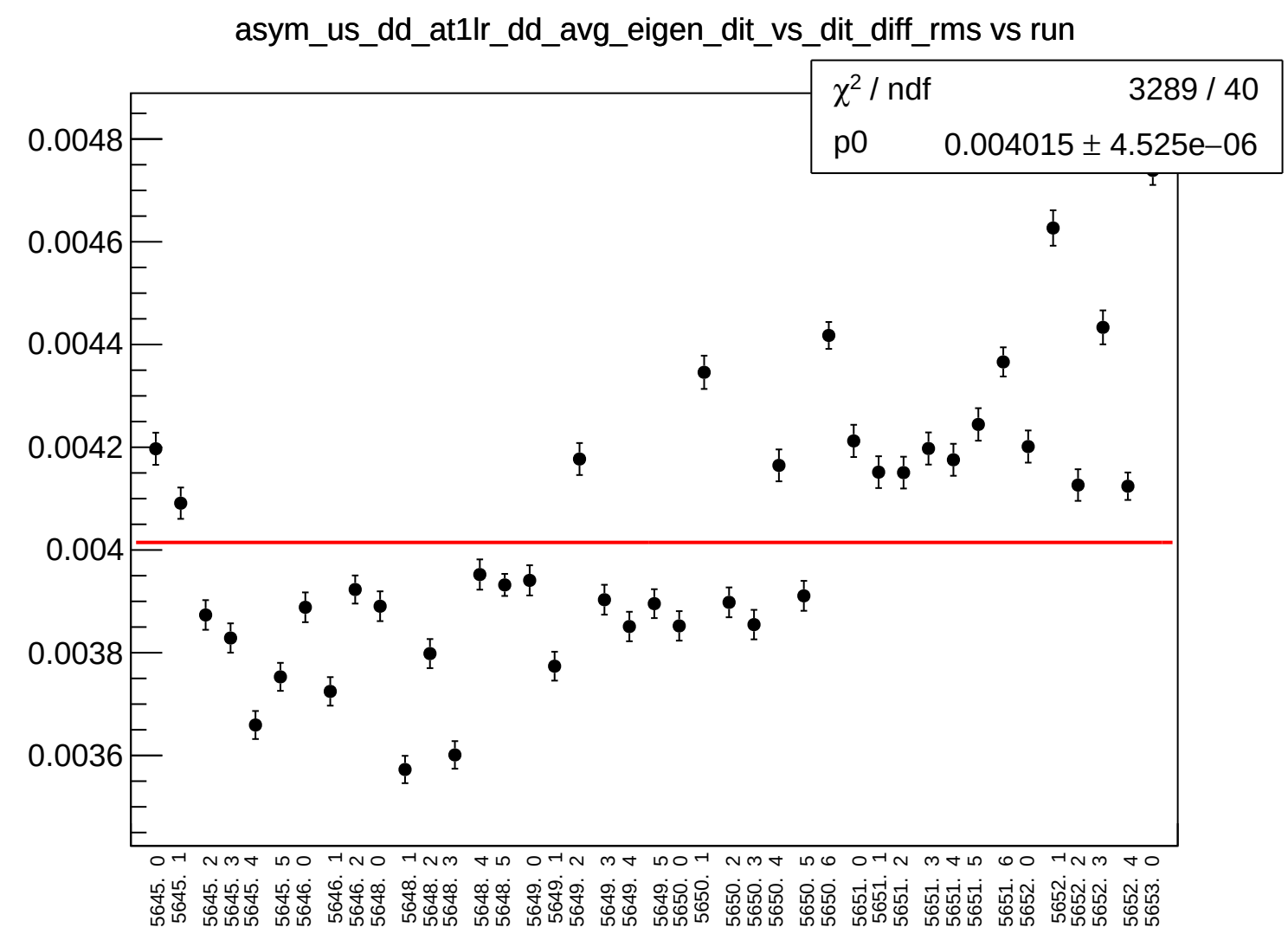

pull1D
Entries 41
Mean 0.02212
Std Dev 0.8974

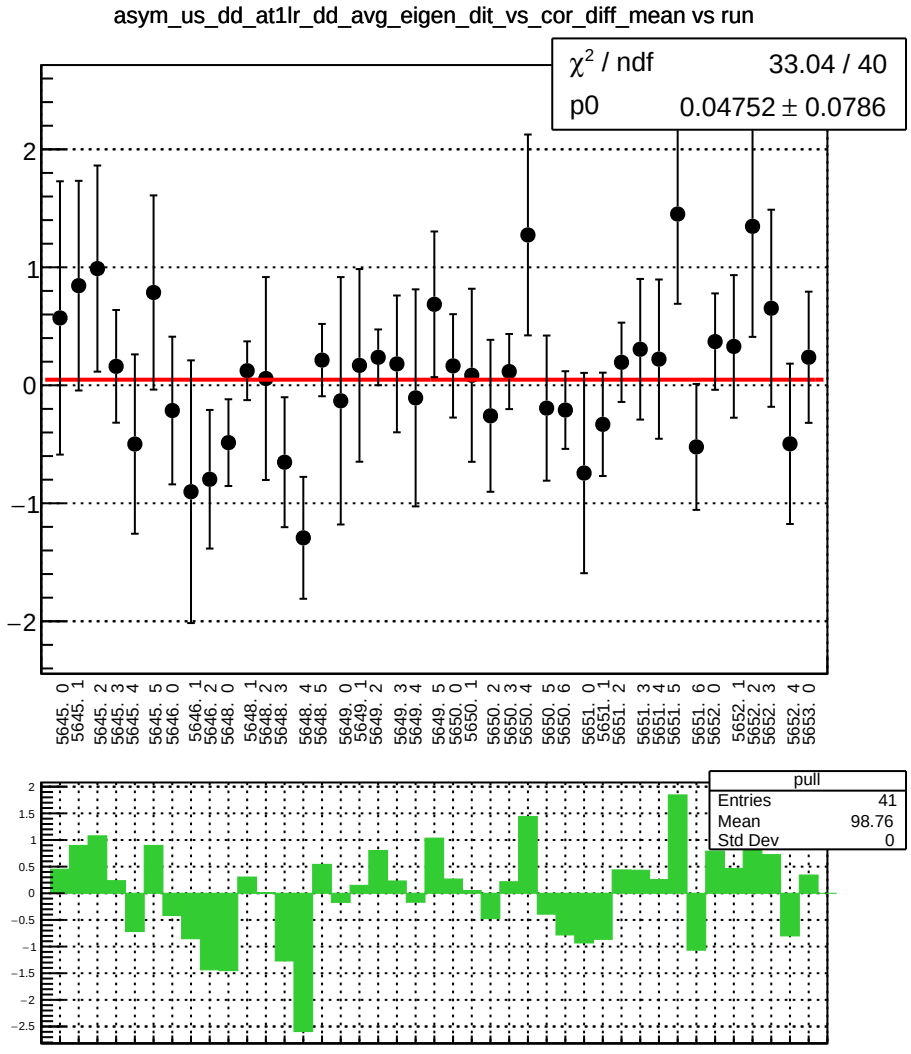

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.235e+05 / 40
p0 45.39 ± 0.05558
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

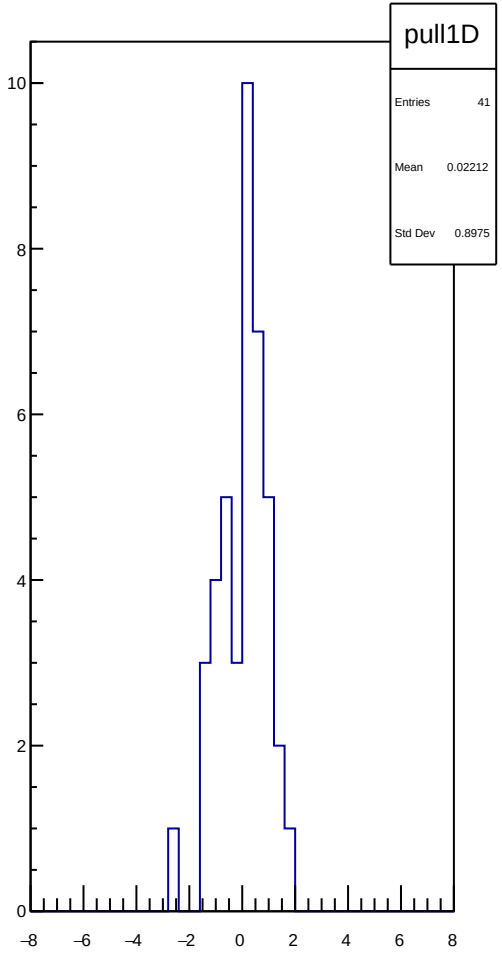

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.04 / 40
p0 0.04752 ± 0.0786
pull
Entries 41
Mean 98.78
Std Dev 0
pull1D
Entries 41
Mean 0.02212
Std Dev 0.8974

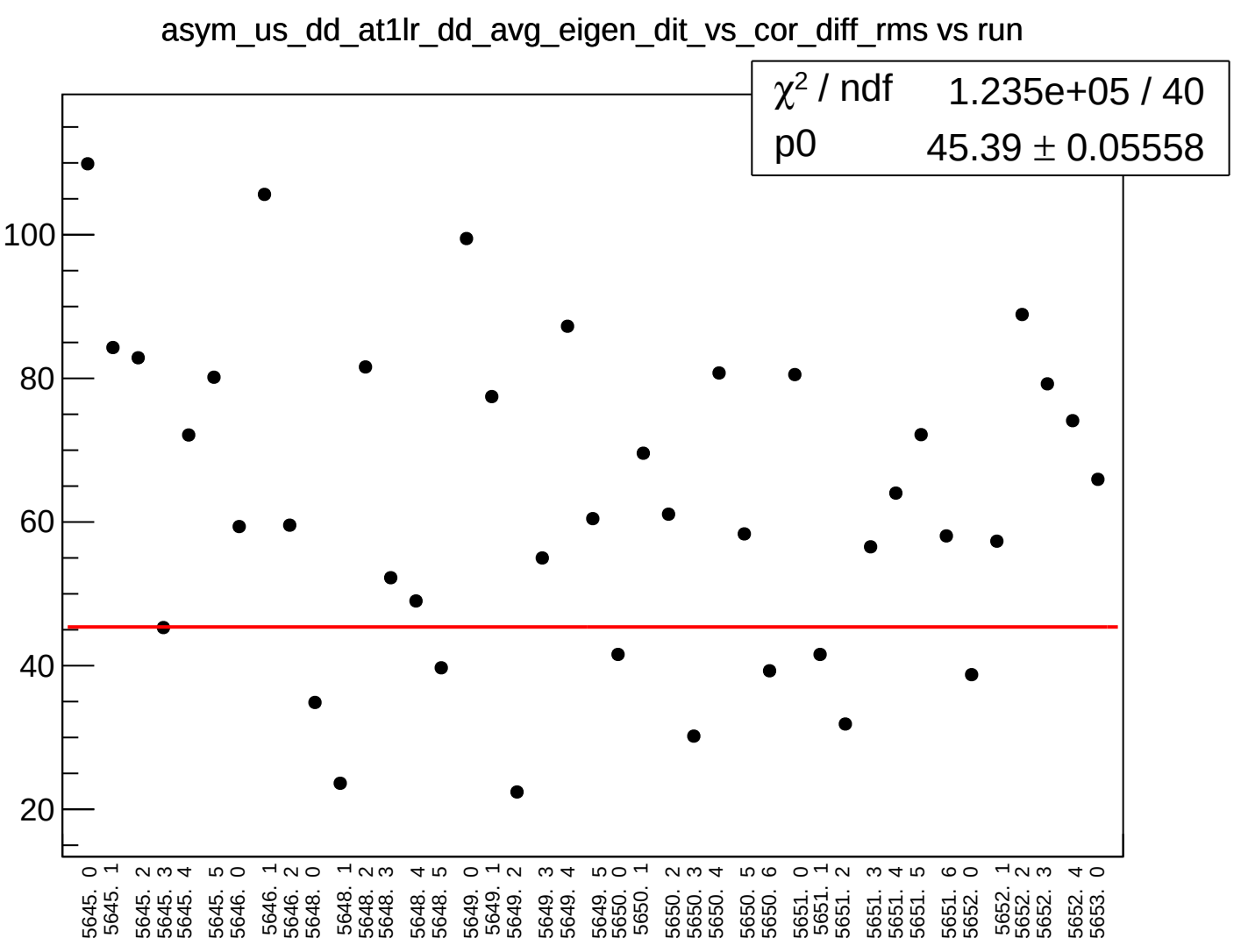

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.235e+05 / 40
p0 45.39 ± 0.05558
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

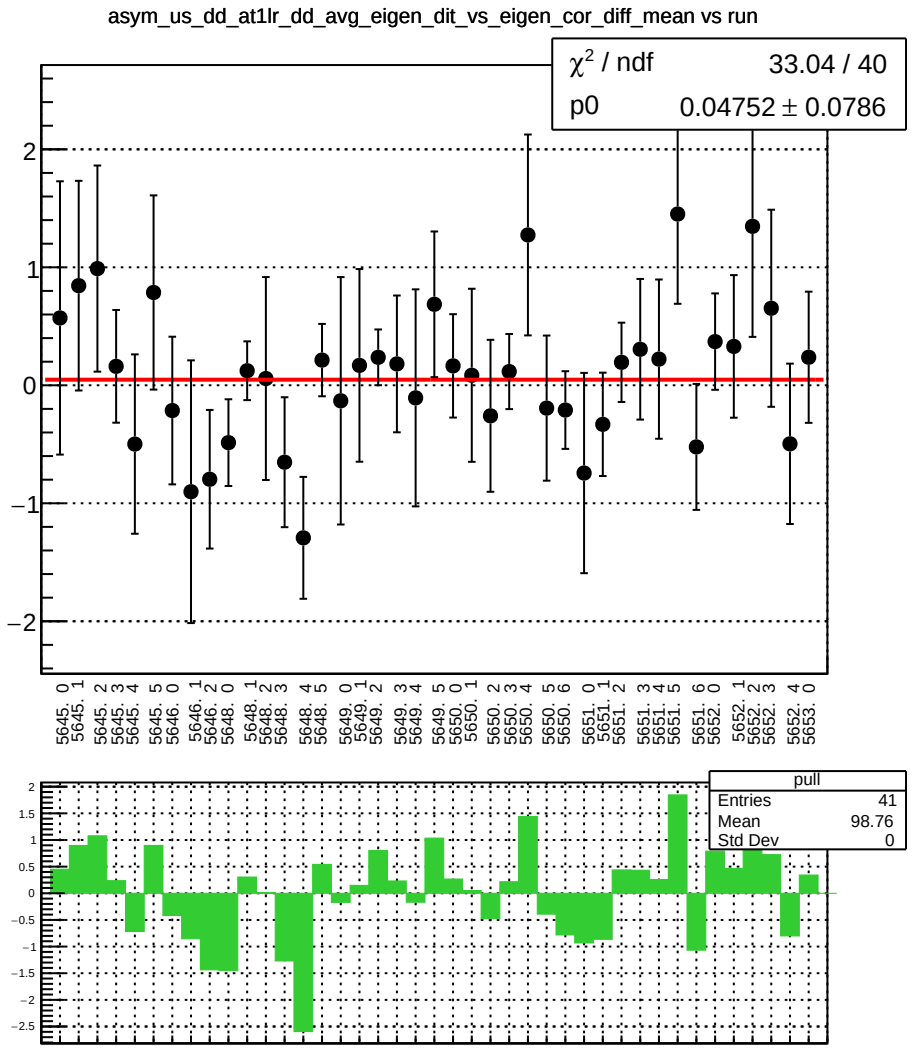

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.39 / 40
p0 3.133e−06 ± 6.4e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 547.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.001444
Std Dev 1.12
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

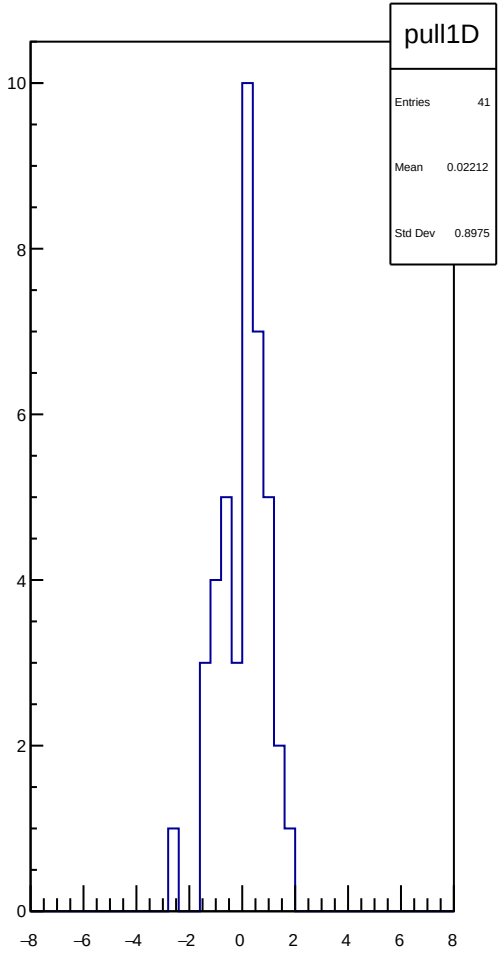

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3289 / 40
p0 0.004015 ± 4.525e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

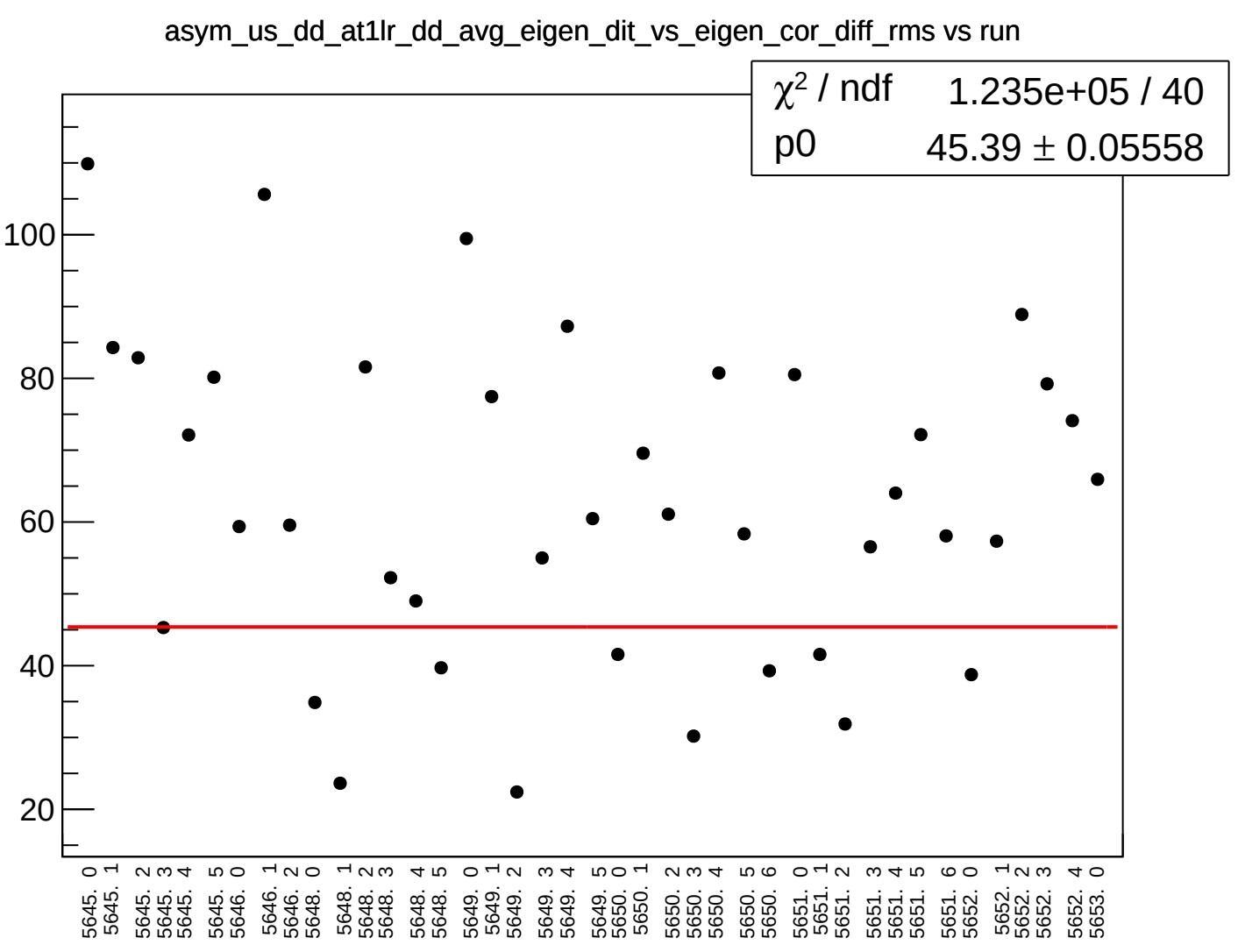

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.04 / 40
p0 0.04752 ± 0.0786
pull
Entries 41
Mean 98.76
Std Dev 0

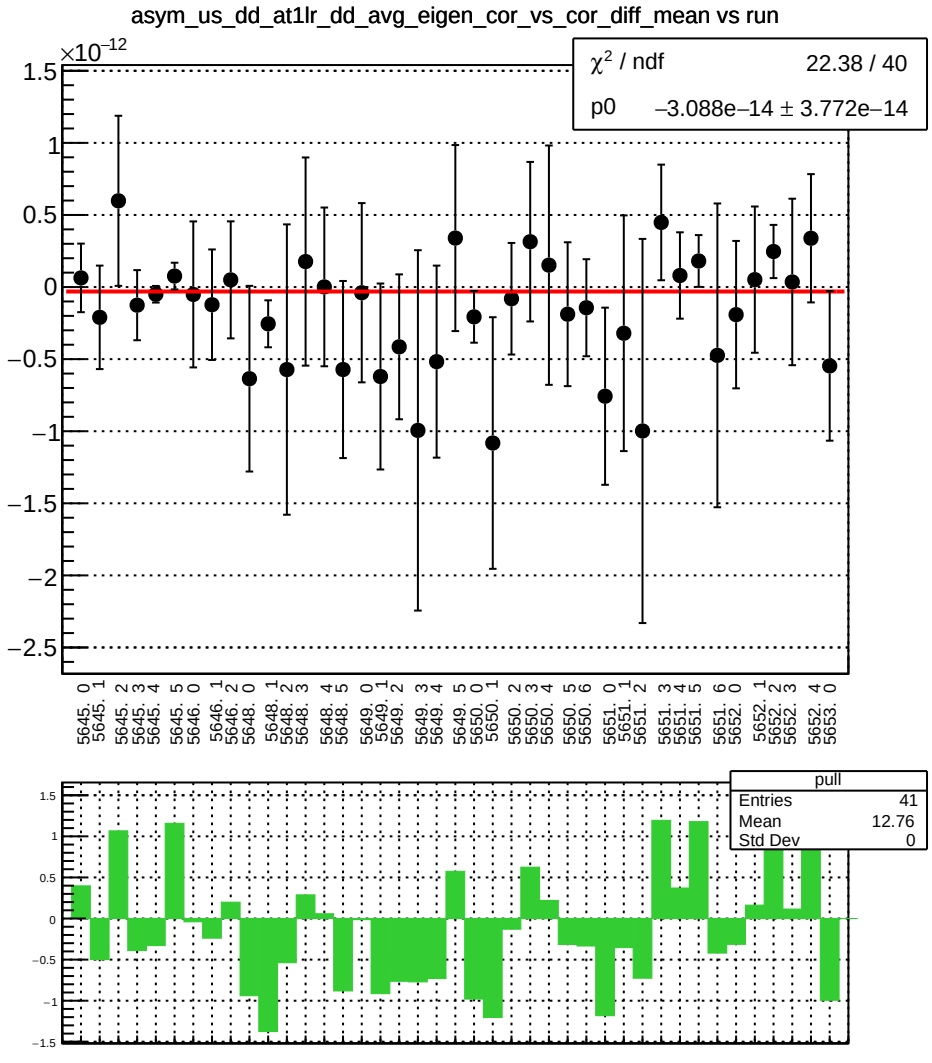

pull1D
Entries 41
Mean 0.02212
Std Dev 0.8975

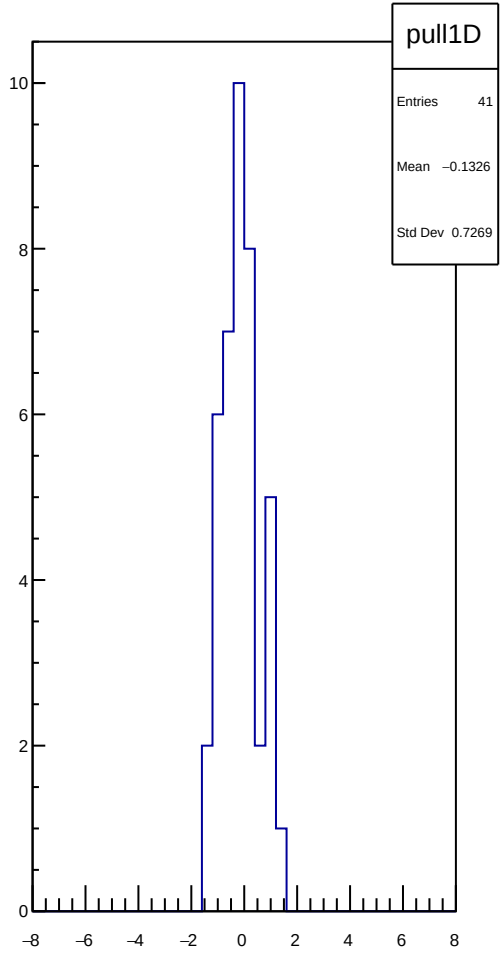

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.235e+05 / 40
p0 45.39 ± 0.05558
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

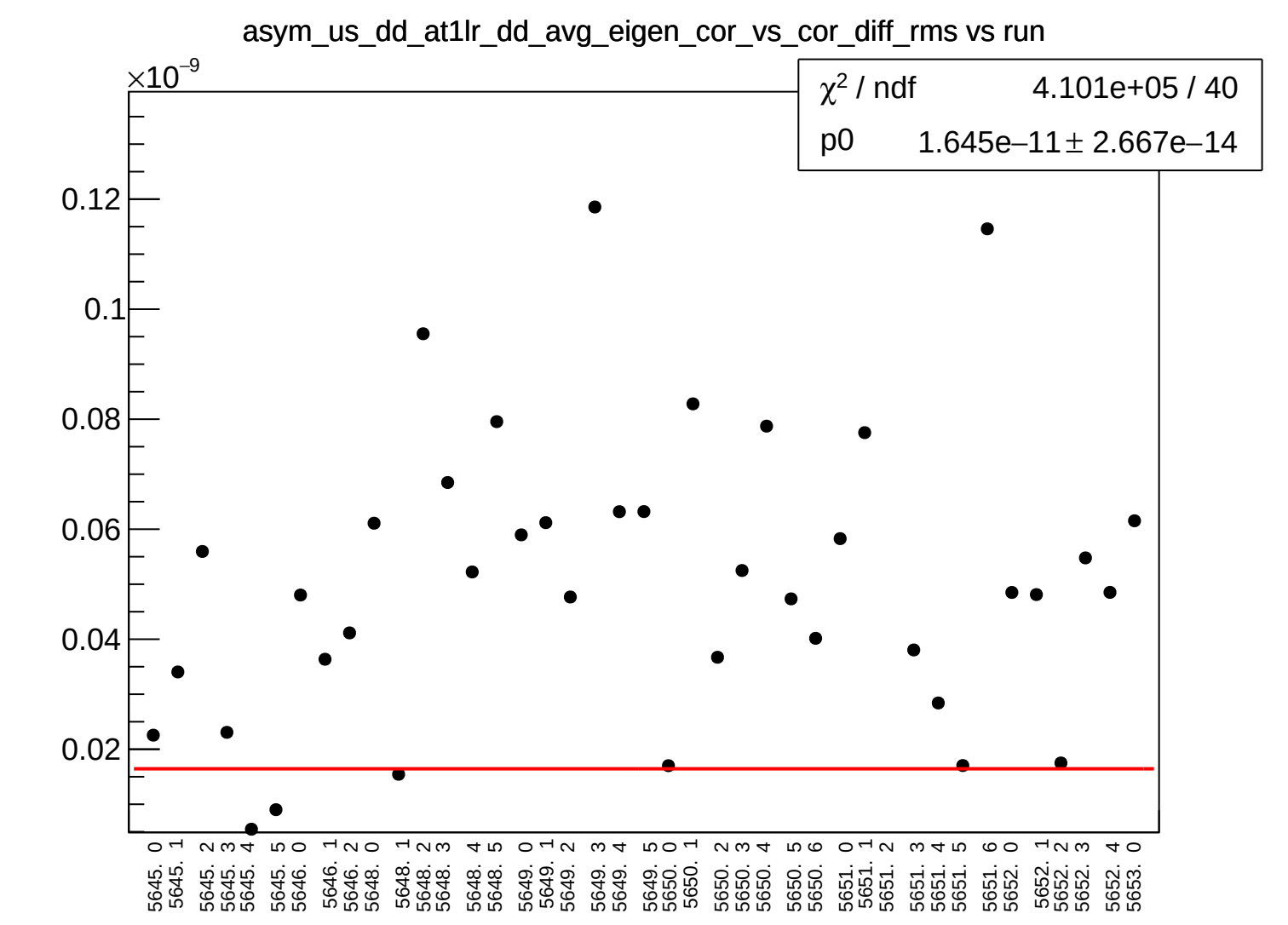

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.04 / 40
p0 0.04752 ± 0.0786
pull
Entries 41
Mean 98.76
Std Dev 0

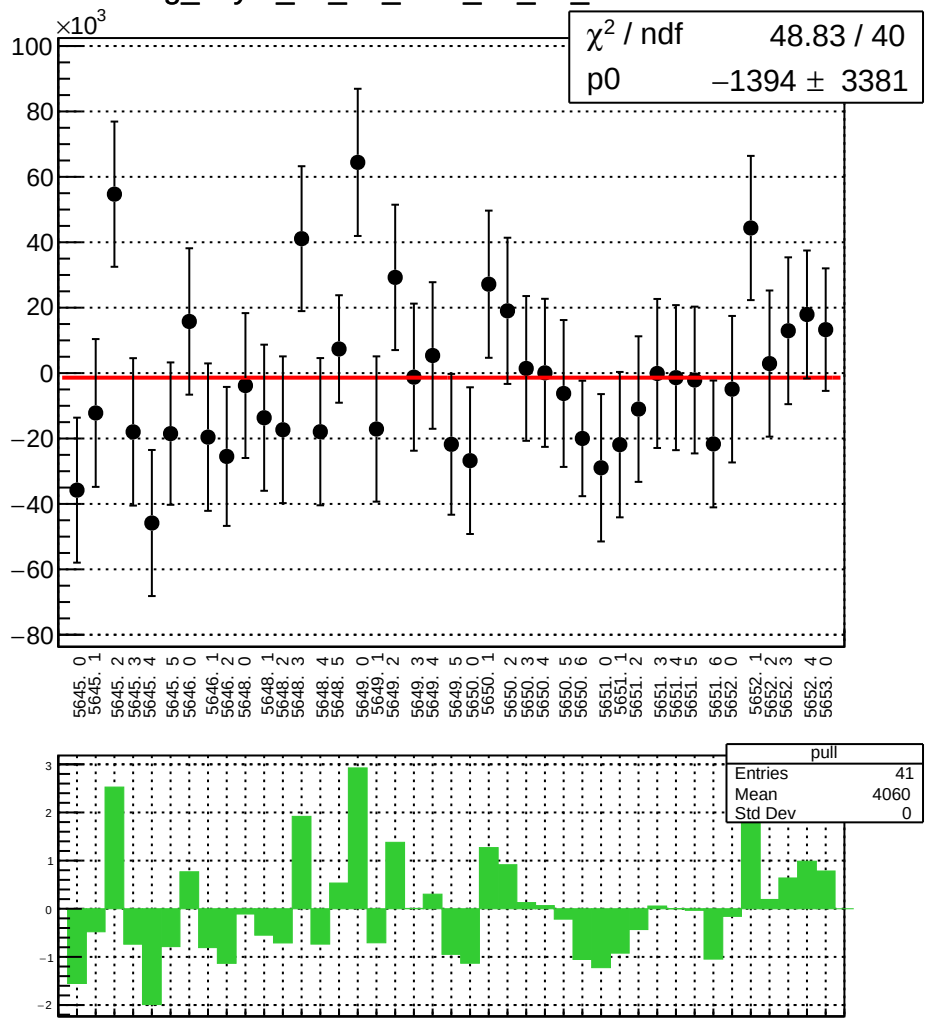

pull1D
Entries 41
Mean 0.02212
Std Dev 0.8975

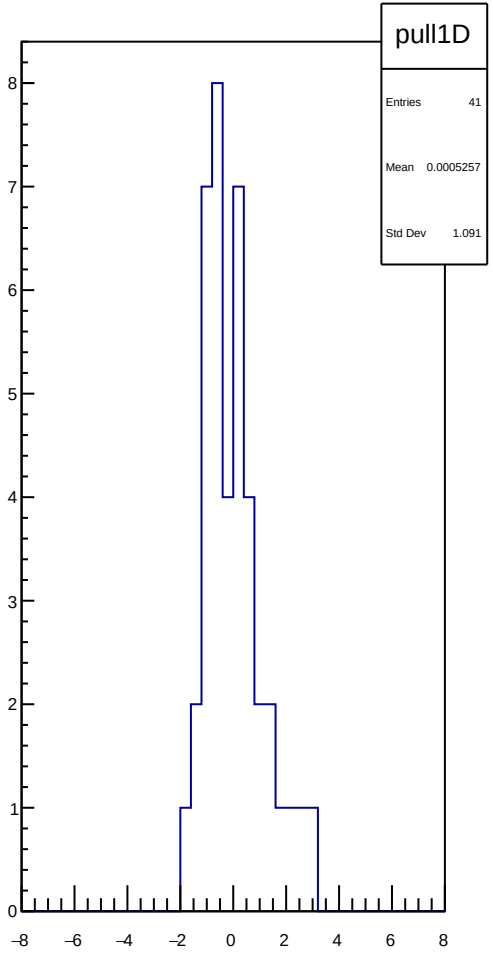

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.235e+05 / 40
p0 45.39 ± 0.05558
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

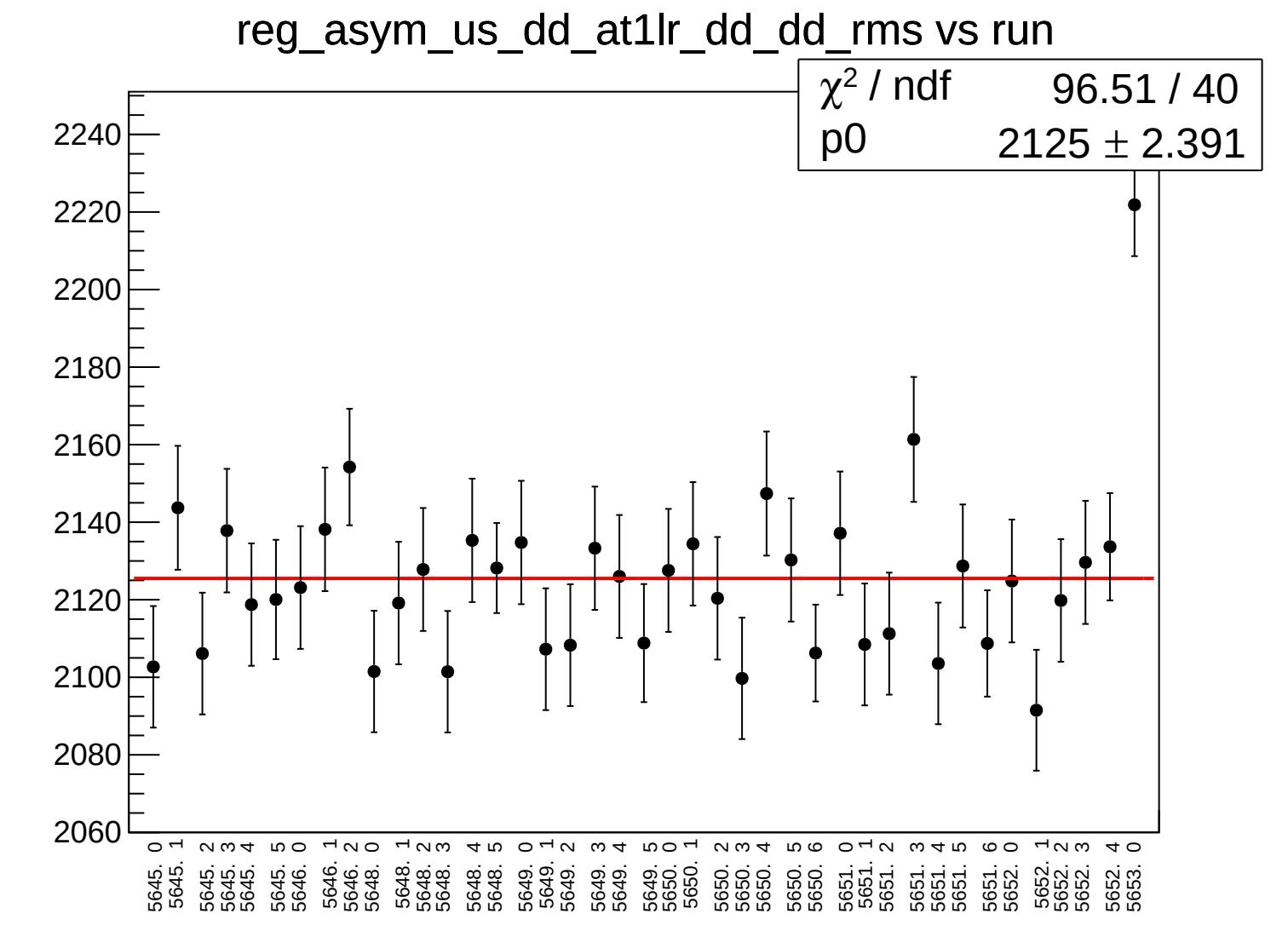

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.38 / 40
p0 −3.088e−14 ± 3.772e−14
pull
Entries 41
Mean 12.76
Std Dev 0

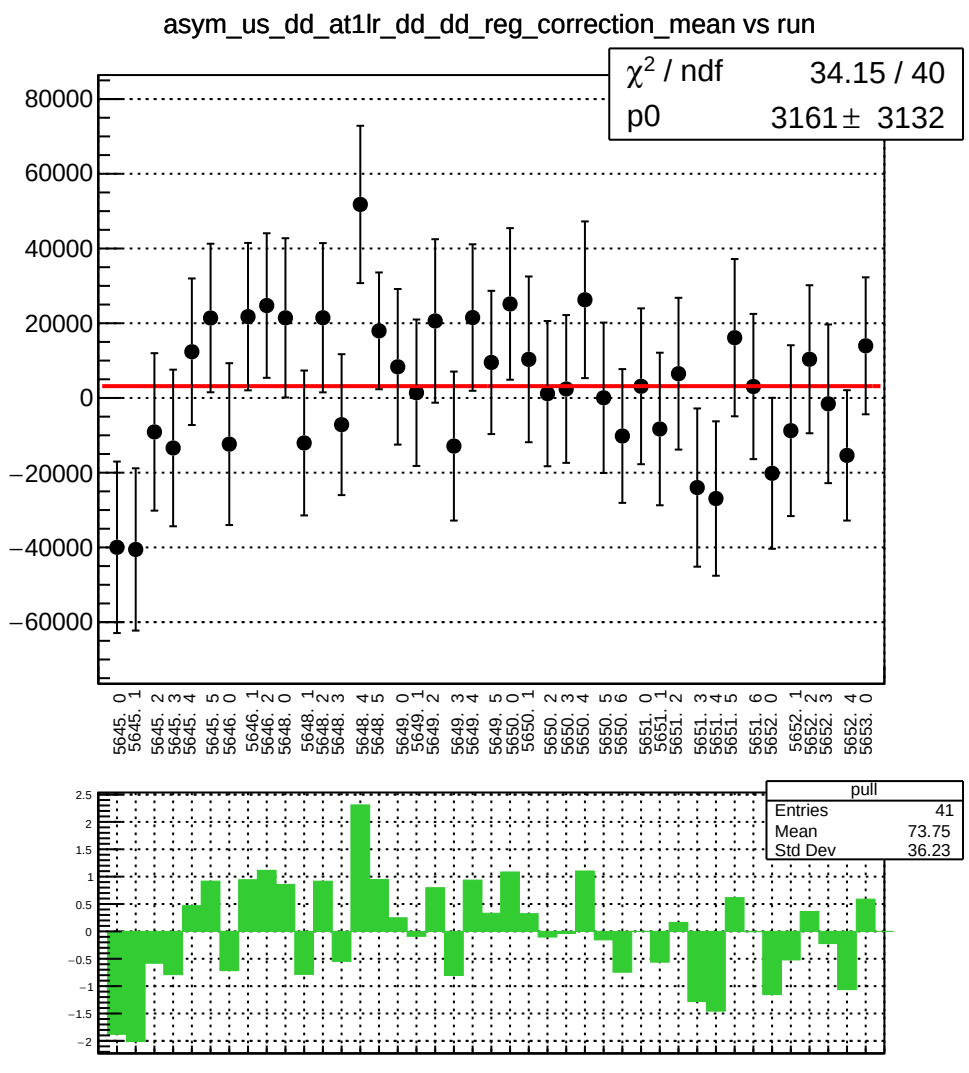

pull1D
Entries 41
Mean −0.1326
Std Dev 0.7269

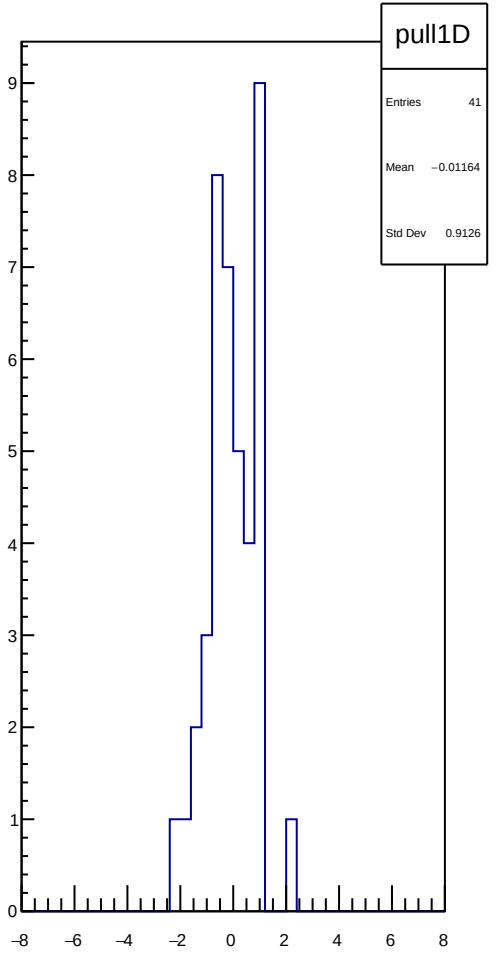

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.101e+05 / 40
p0 1.645e−11 ± 2.667e−14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

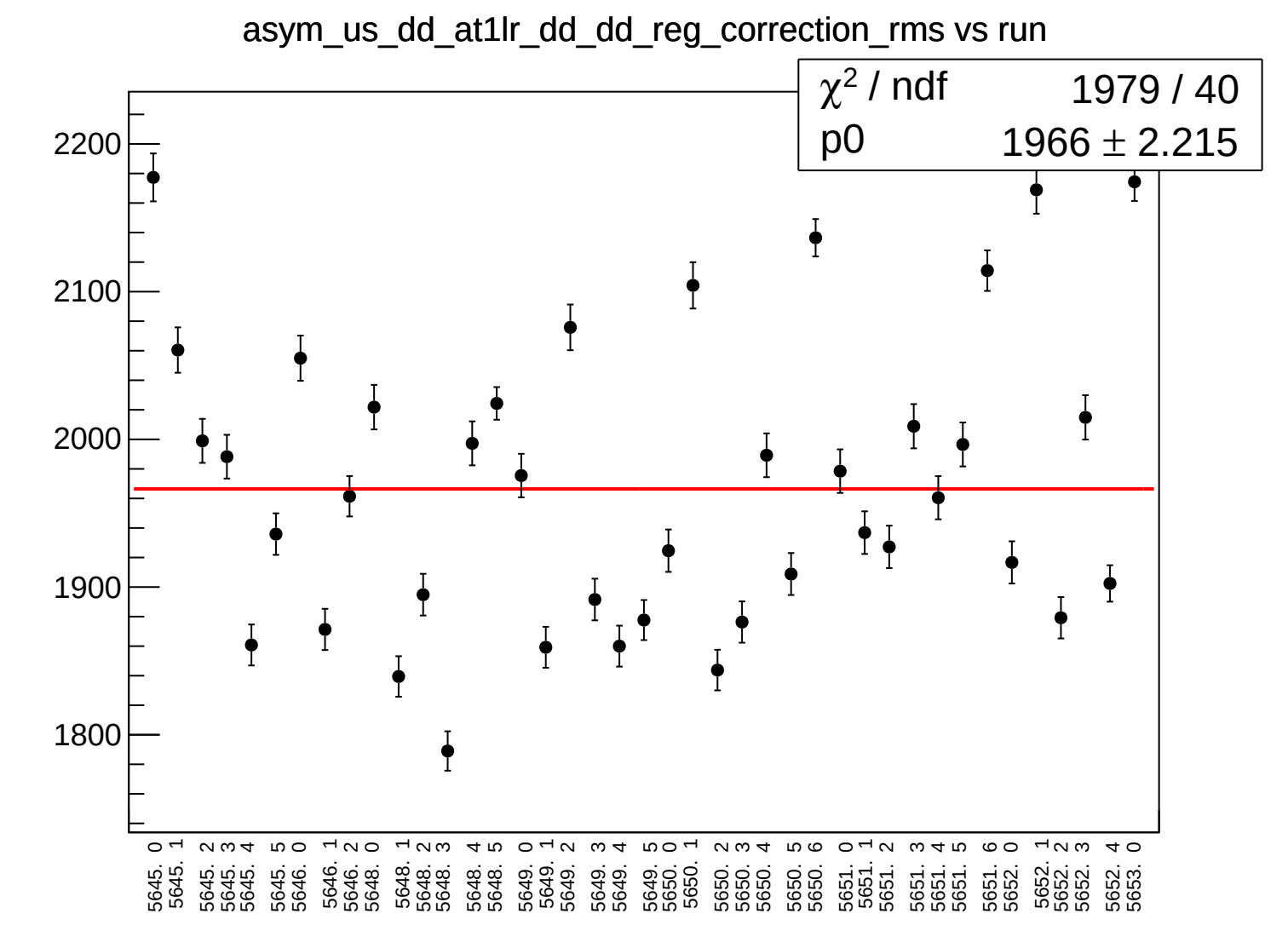

reg_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 48.83 / 40
p0 −1394 ± 3381
pull
Entries 41
Mean 4060
Std Dev 0

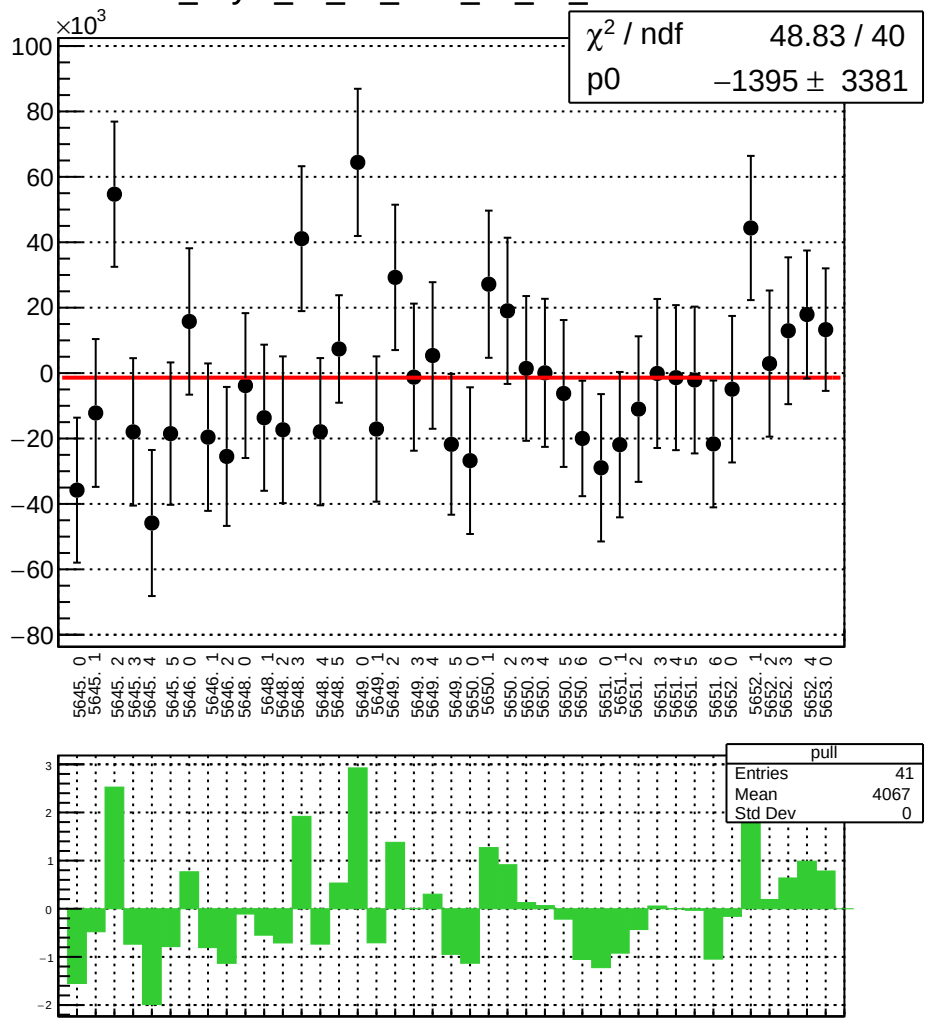

pull1D
Entries 41
Mean 0.0005257
Std Dev 1.091

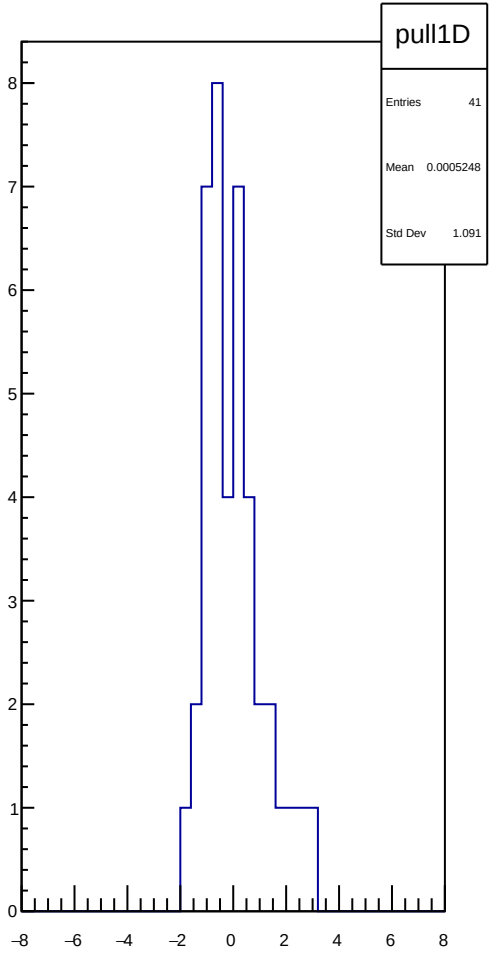

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 96.51 / 40
p0 2125 ± 2.391
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

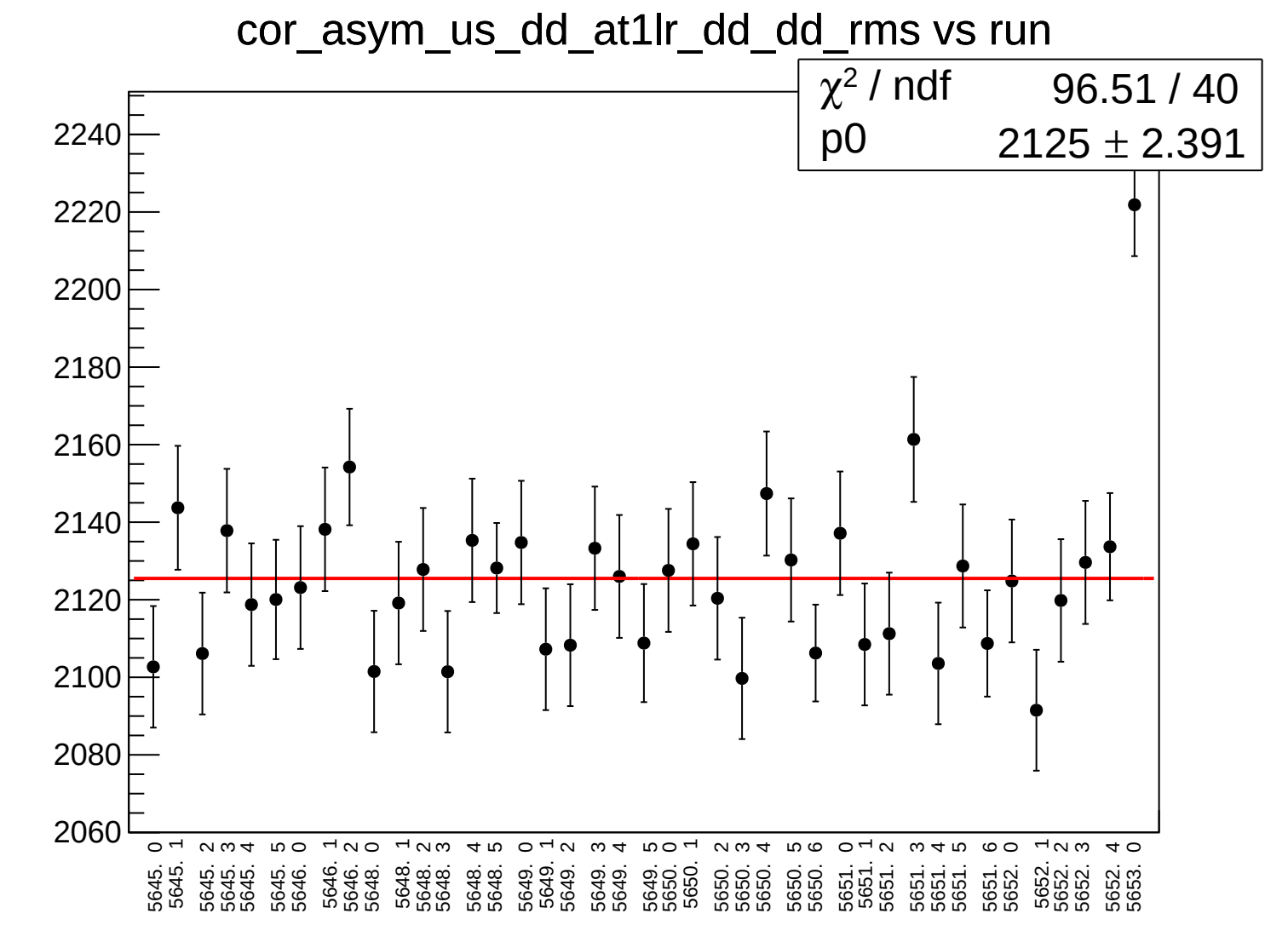

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 34.15 / 40
p0 3161 ± 3132
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.75
Std Dev 36.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

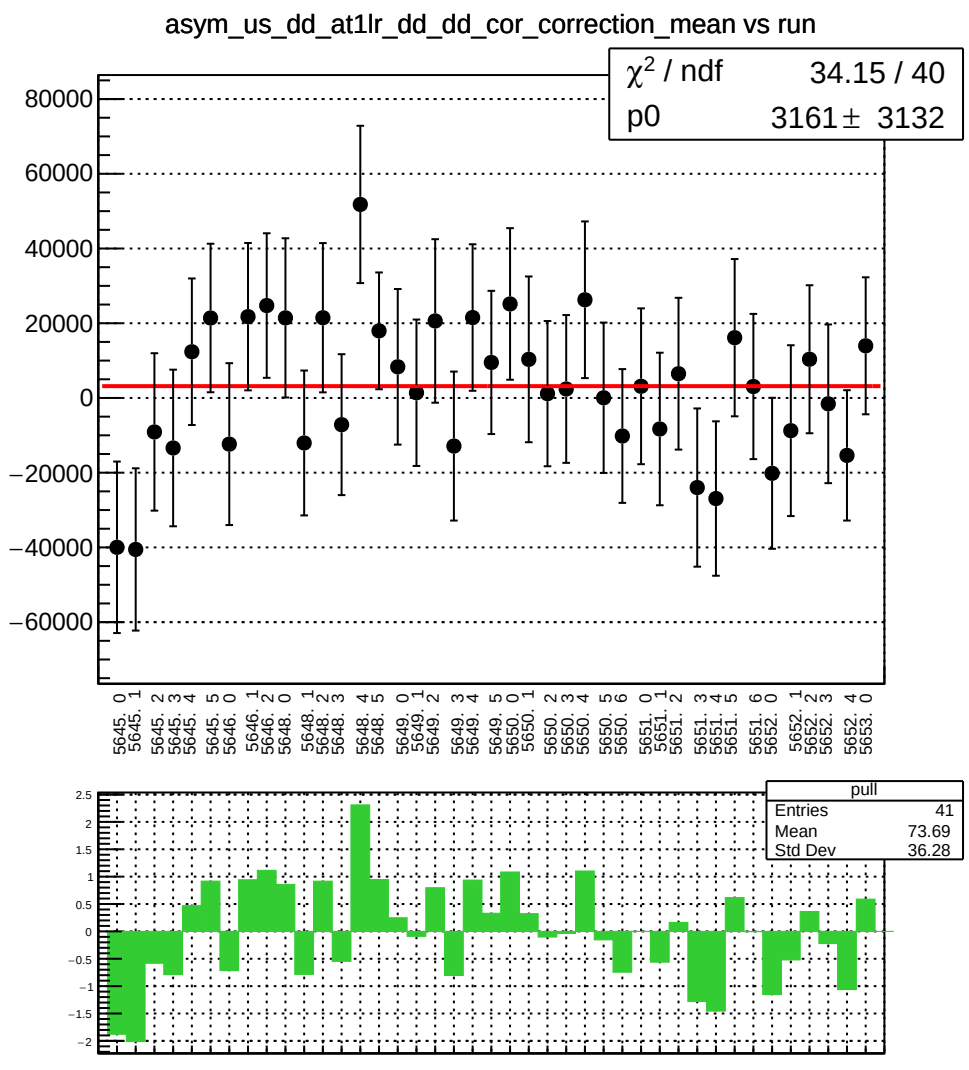

pull1D
Entries 41
Mean −0.01164
Std Dev 0.9126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

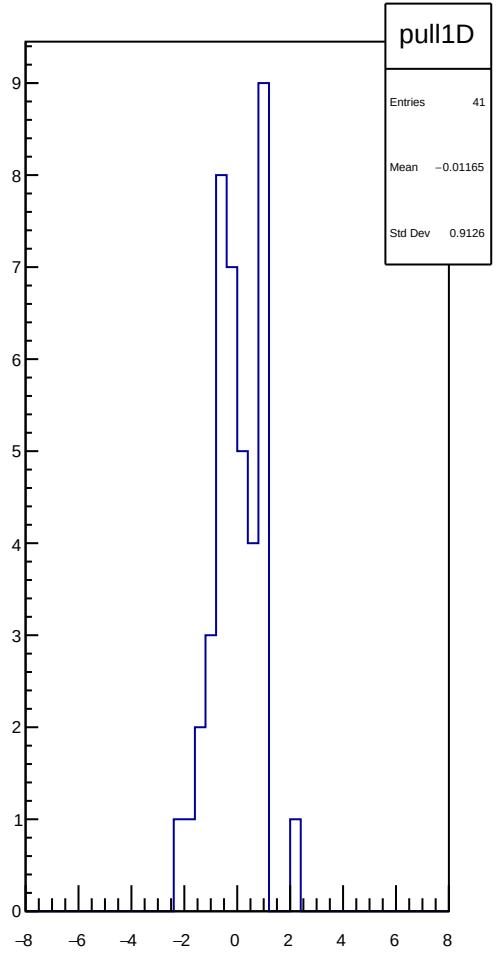

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1979 / 40
p0 1966 ± 2.215
2200
2100
2000
1900
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

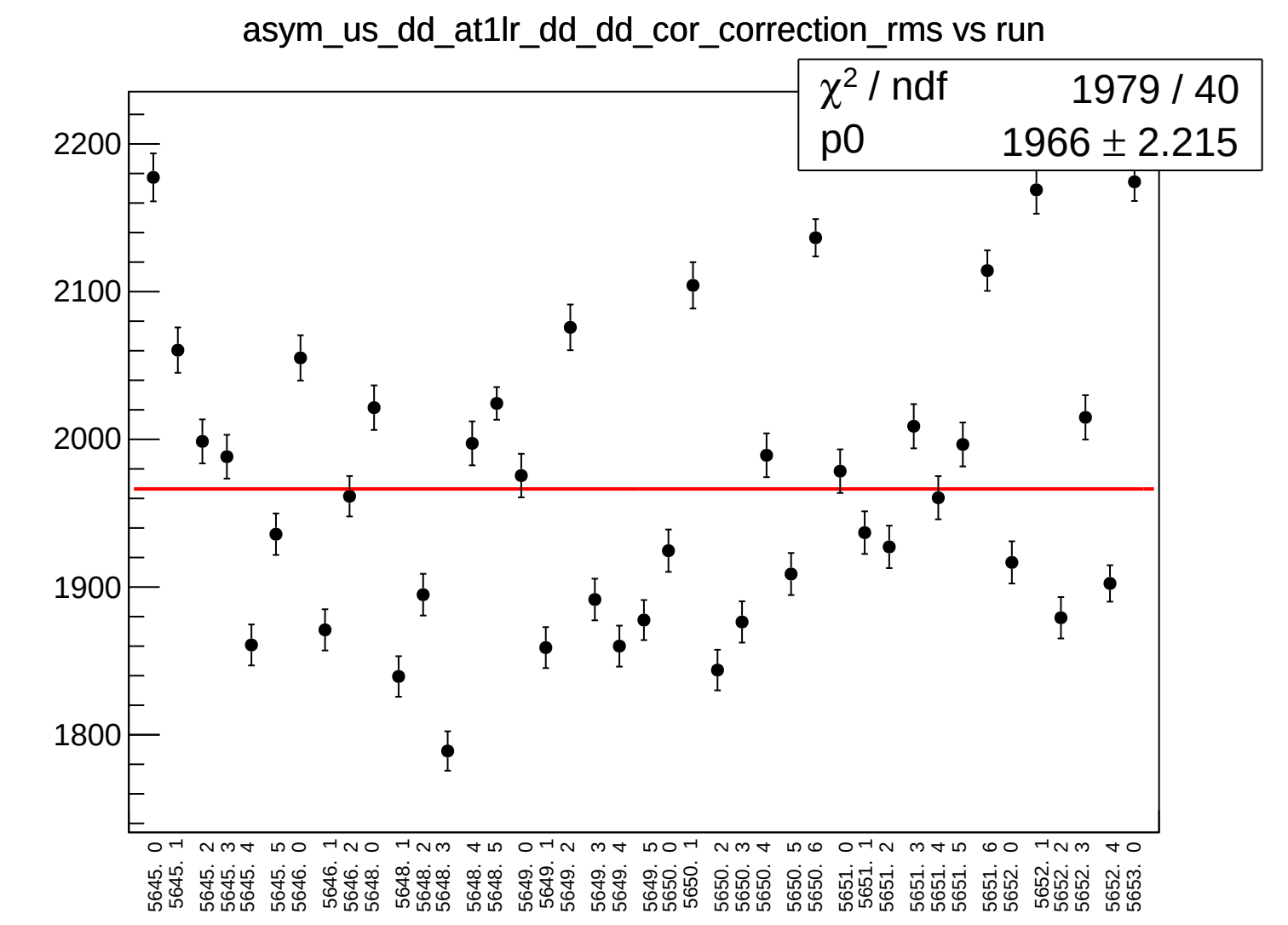

cor_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 48.83 / 40
p0 −1395 ± 3381
pull
Entries 41
Mean 4067
Std Dev 0

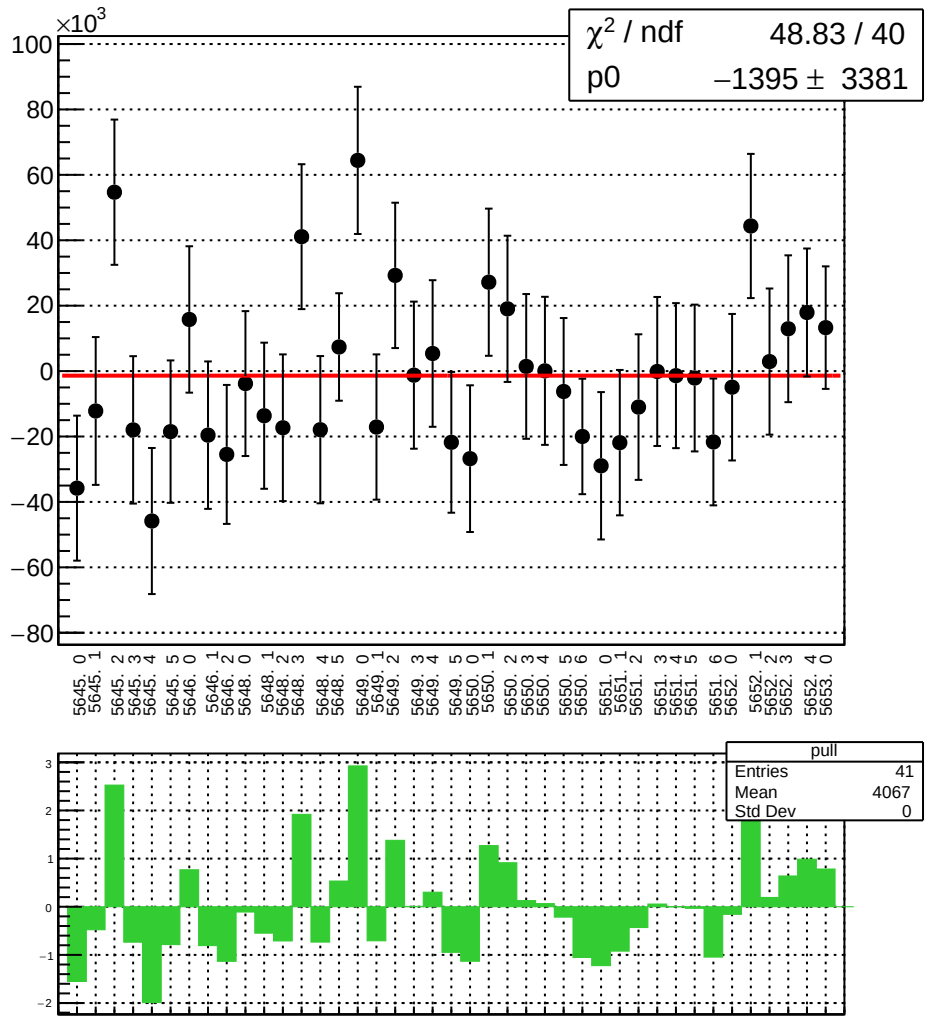

pull1D
Entries 41
Mean 0.0005248
Std Dev 1.091

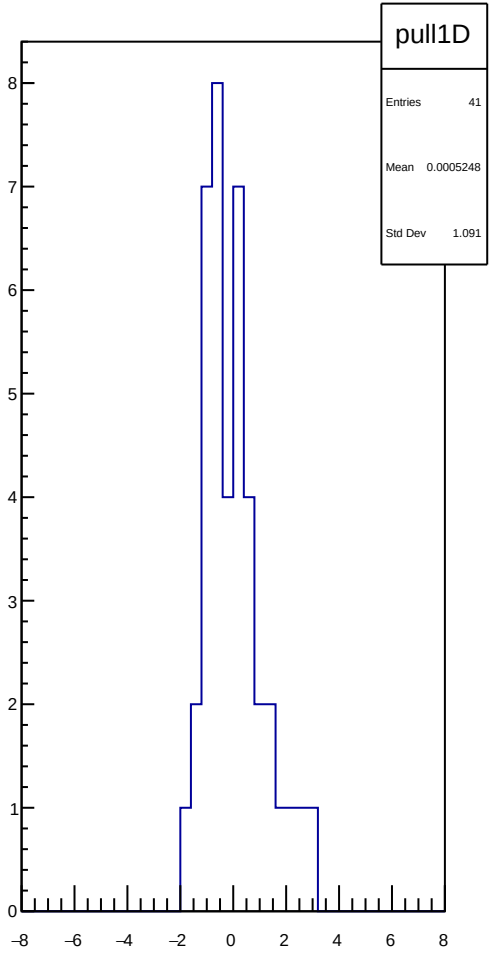

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 96.51 / 40
p0 2125 ± 2.391
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

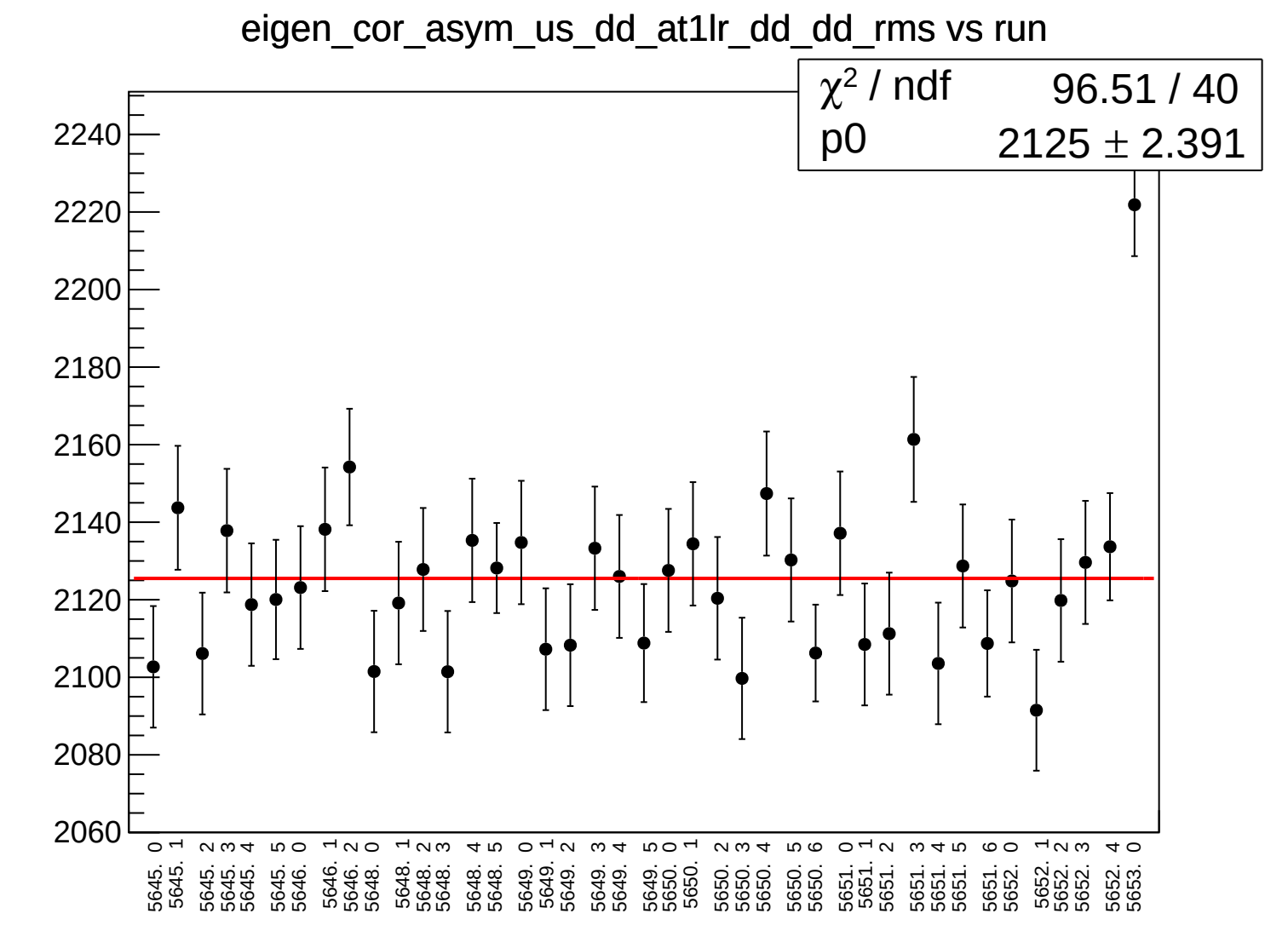

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 34.15 / 40
p0 3161 ± 3132
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.69
Std Dev 36.28
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

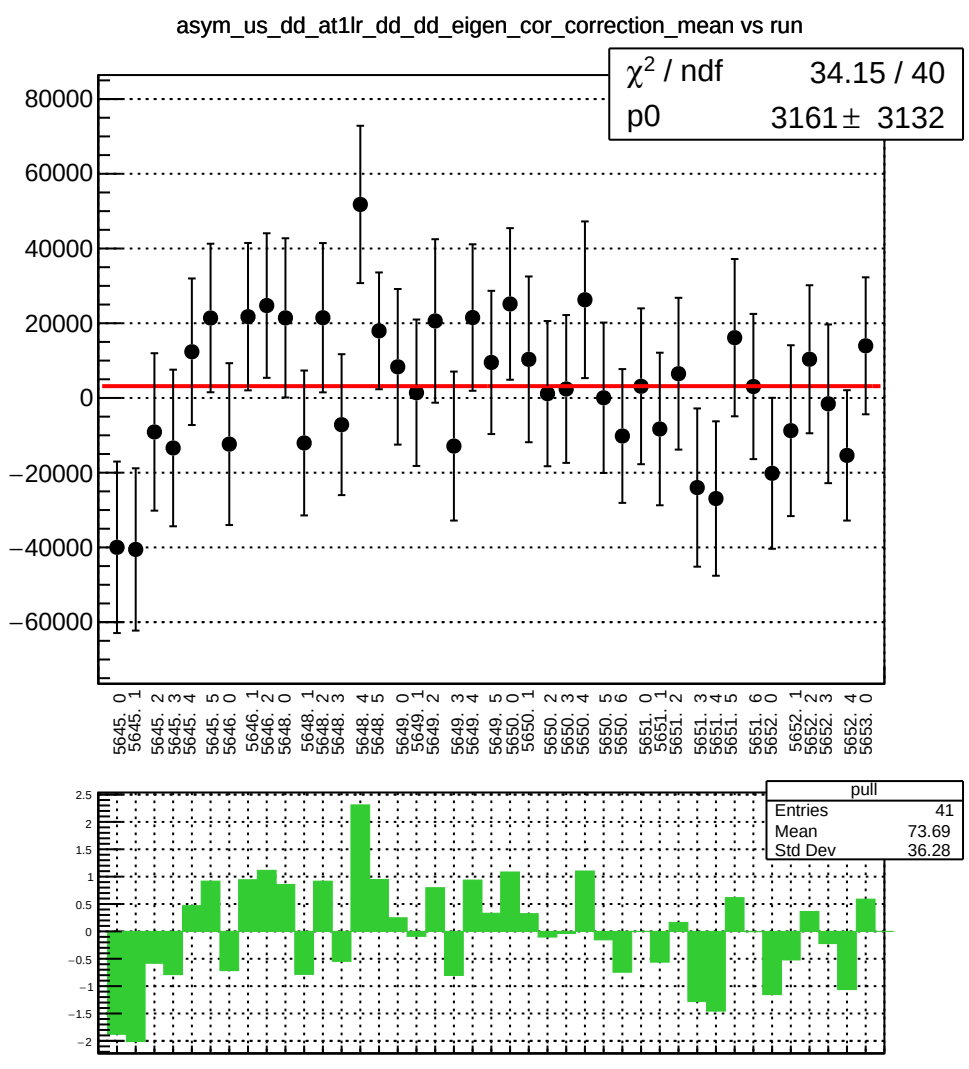

pull1D
Entries 41
Mean −0.01165
Std Dev 0.9126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

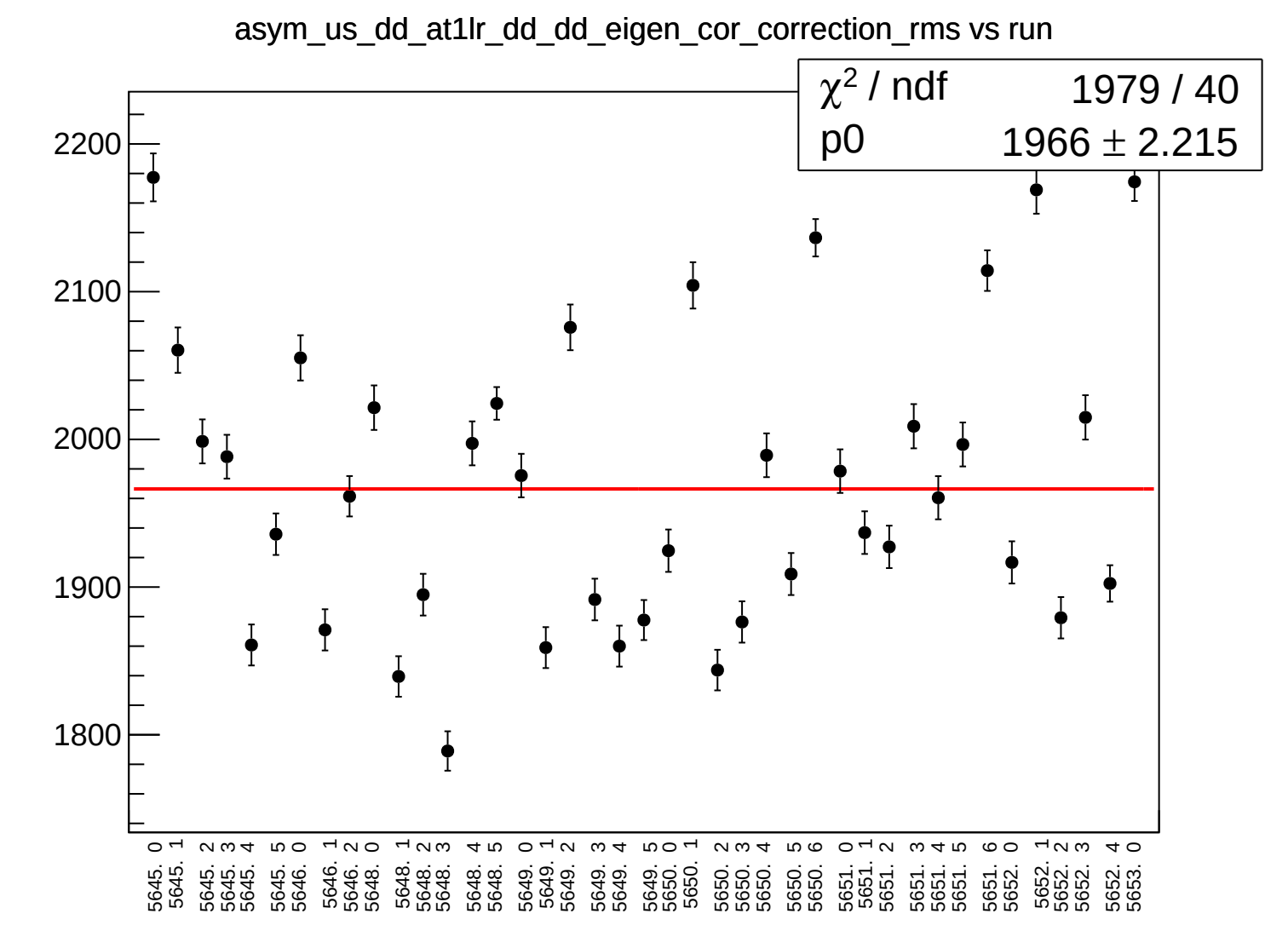

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1979 / 40
p0 1966 ± 2.215
2200
2100
2000
1900
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

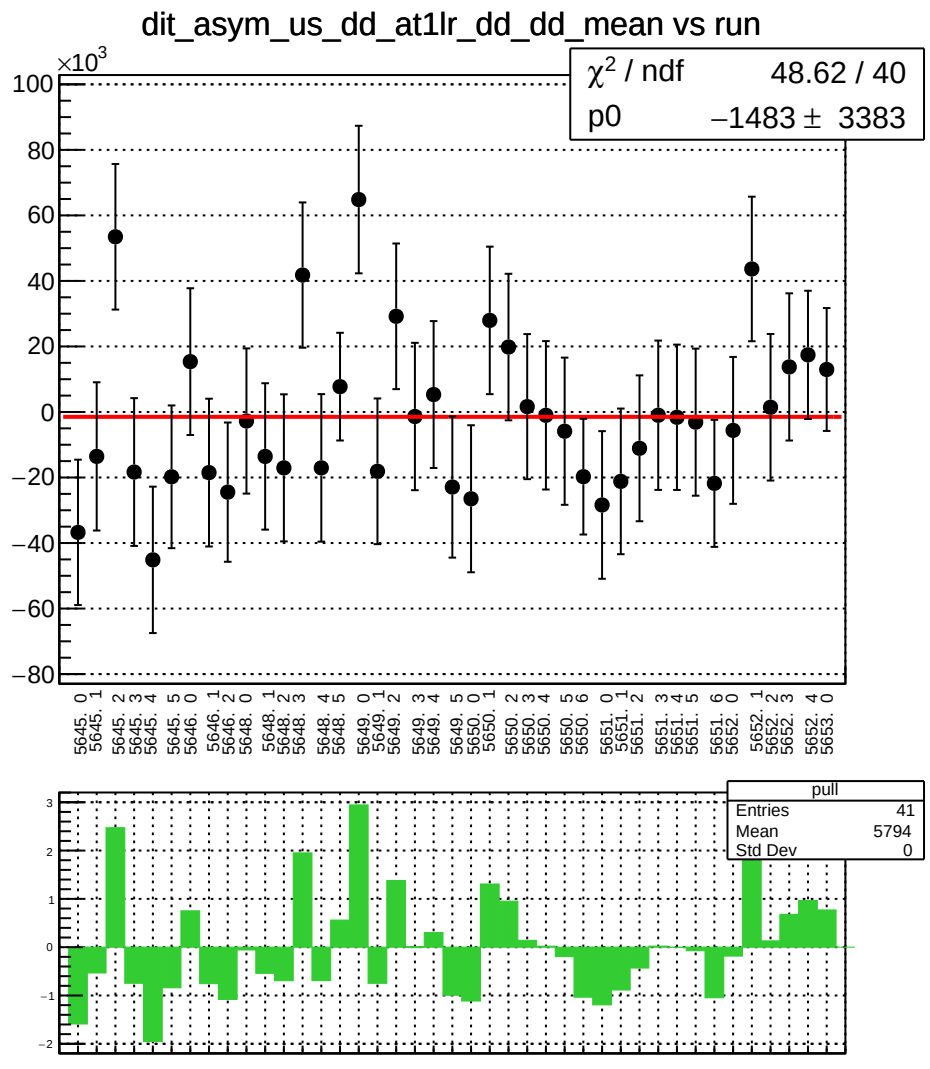

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 48.83 / 40
p0 −1395 ± 3381
pull
Entries 41
Mean 4067
Std Dev 0

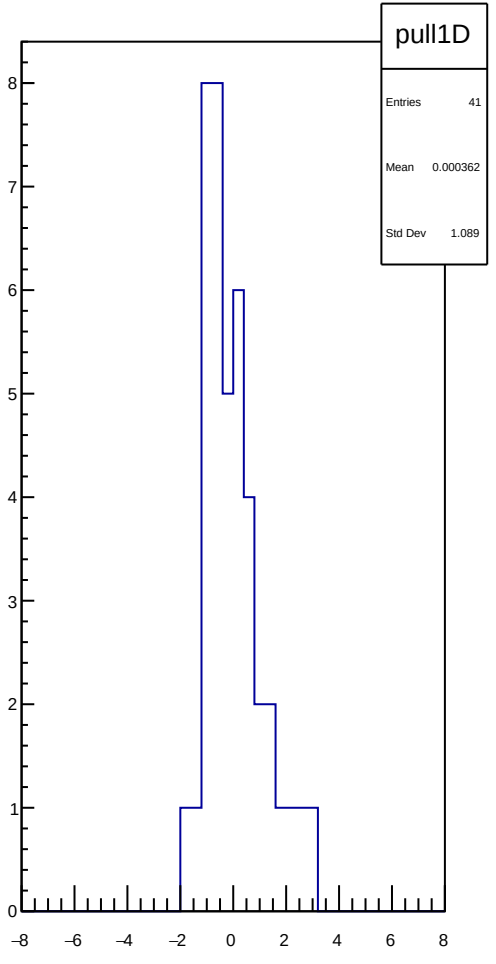

pull1D
Entries 41
Mean 0.0005248
Std Dev 1.091

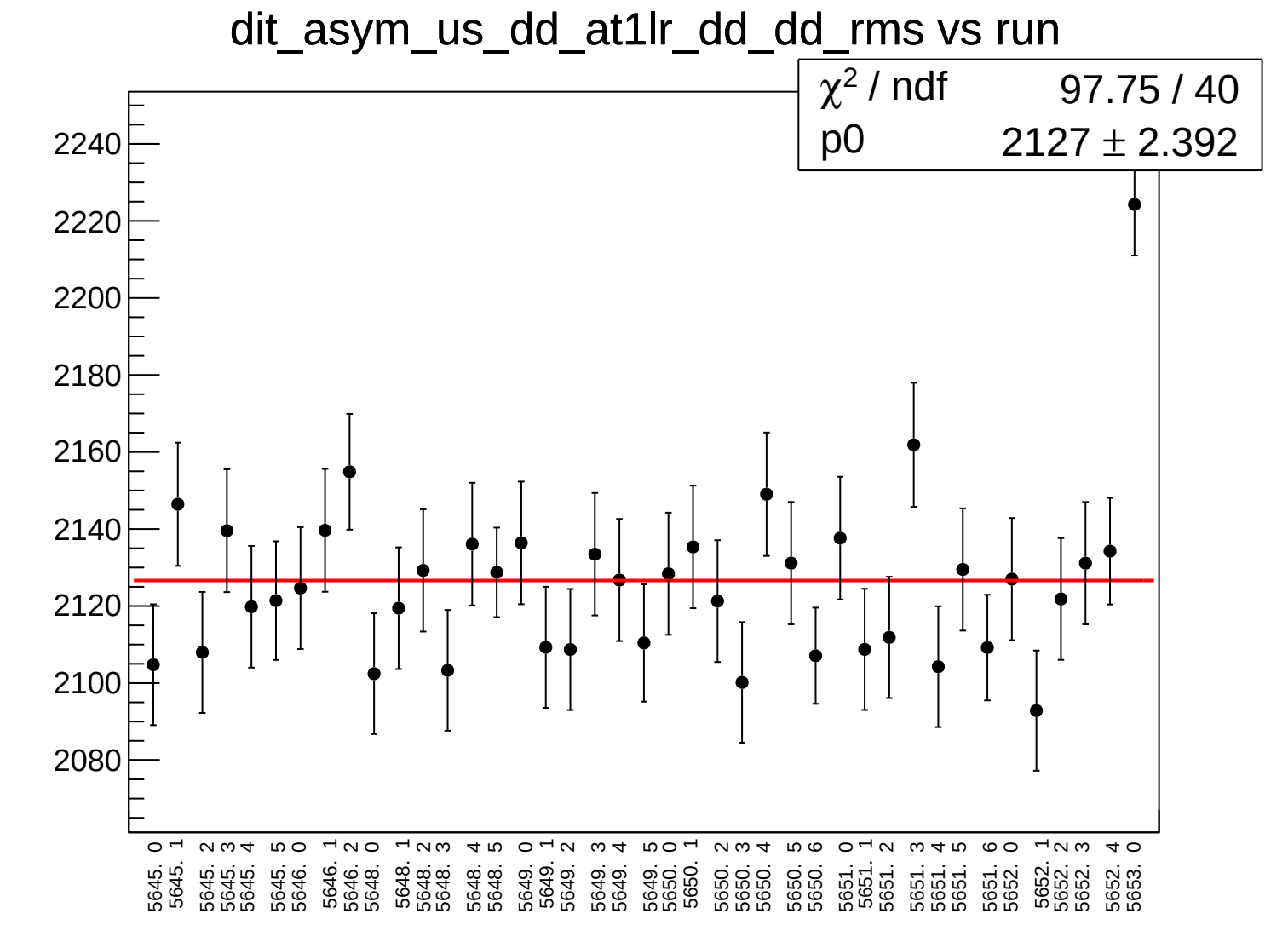

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 96.51 / 40
p0 2125 ± 2.391
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

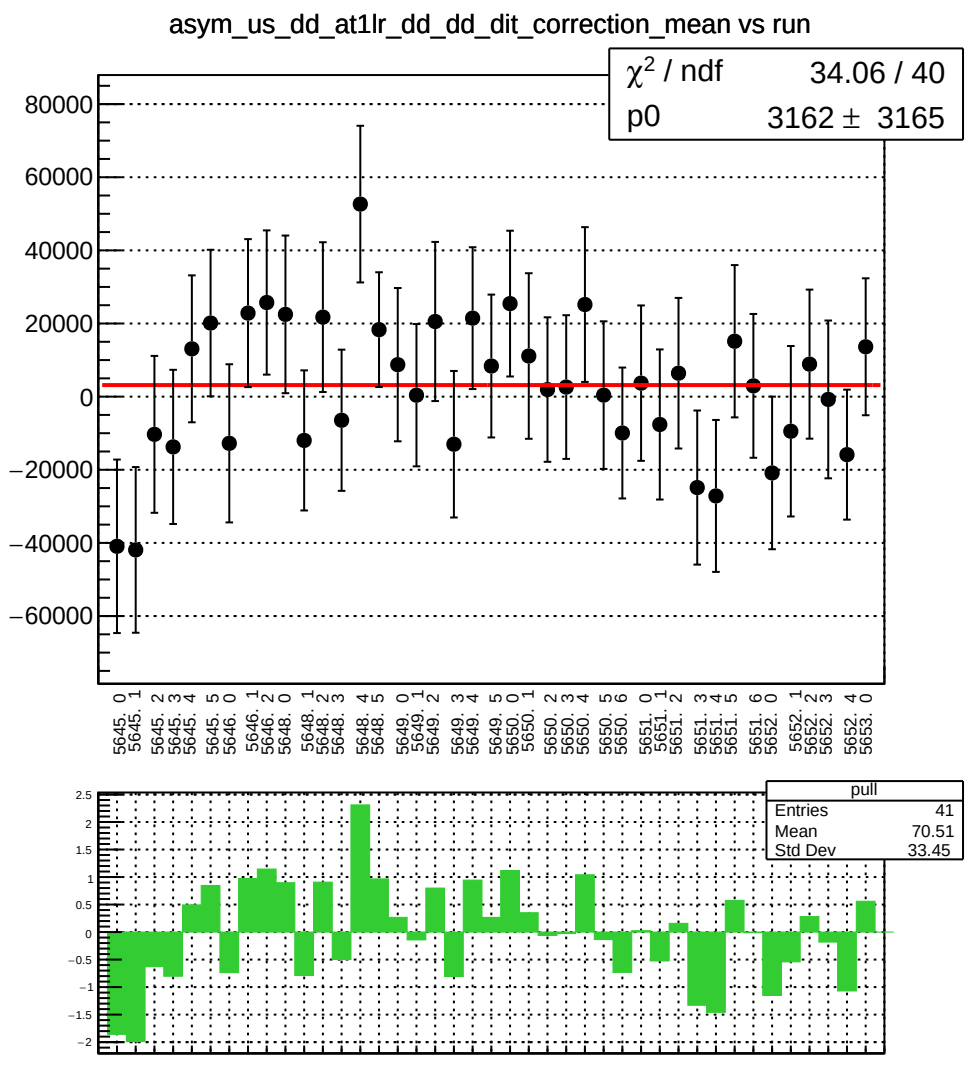

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.15 / 40
p0 3161 ± 3132
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.69
Std Dev 36.28
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01165
Std Dev 0.9126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

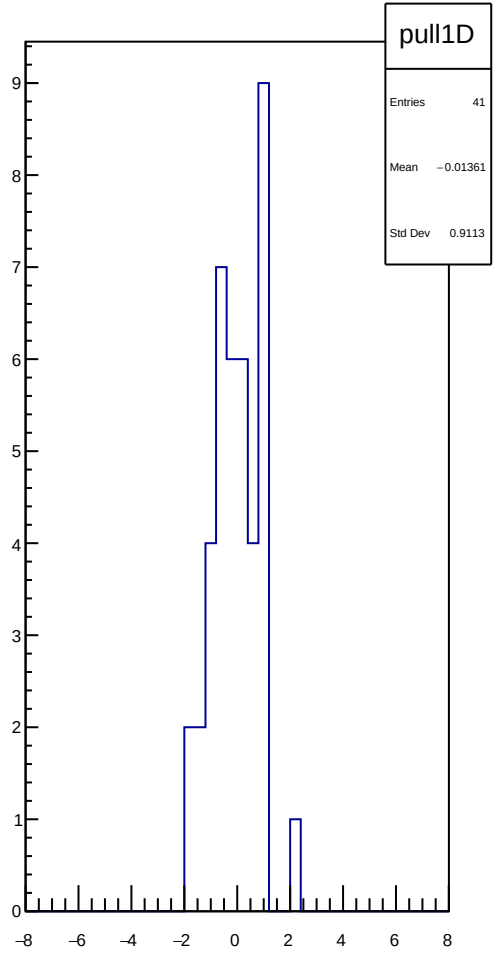

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1979 / 40
p0 1966 ± 2.215
2200
2100
2000
1900
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

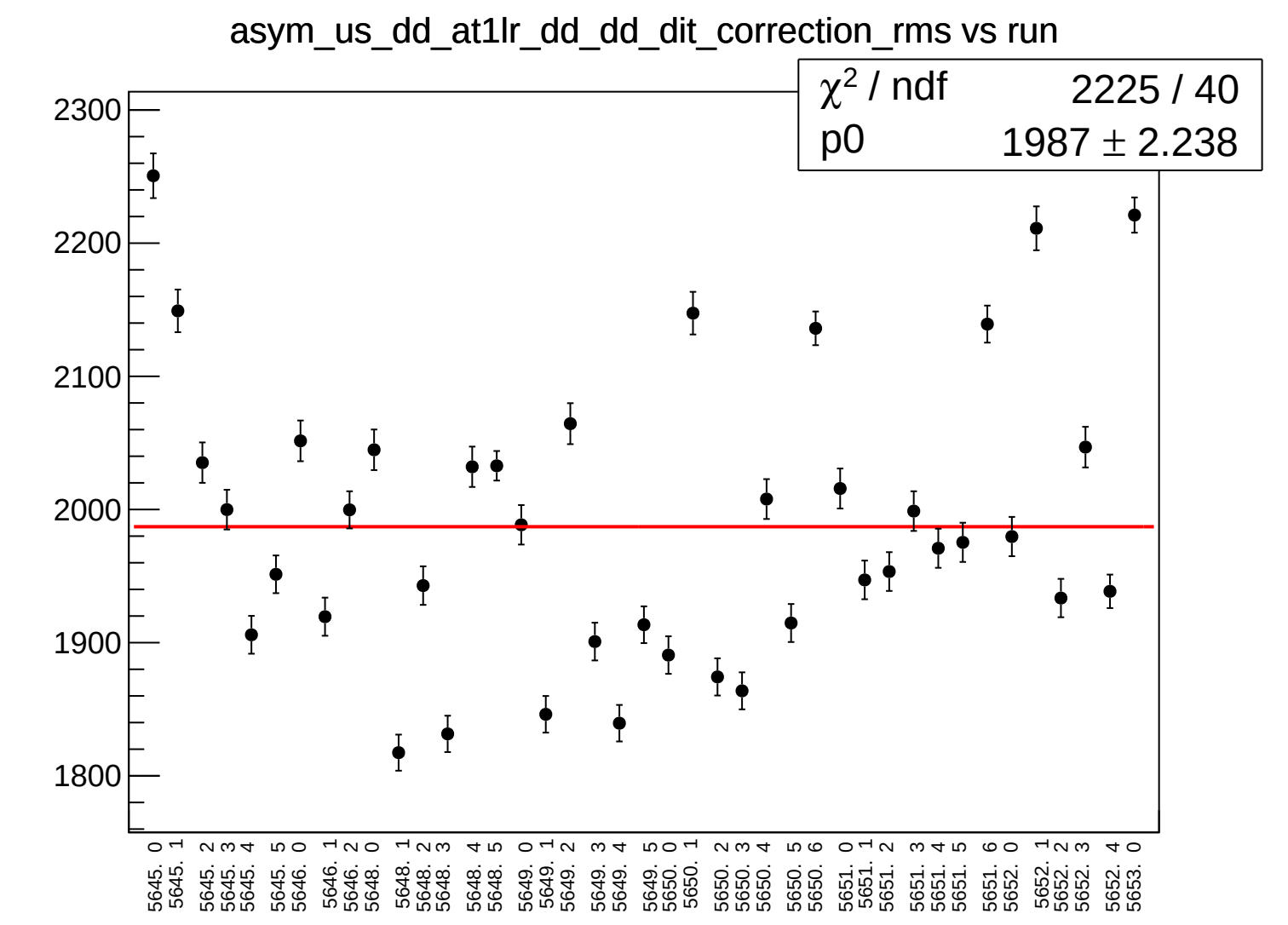

dit_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 48.62 / 40
p0 −1483 ± 3383
pull
Entries 41
Mean 5794
Std Dev 0

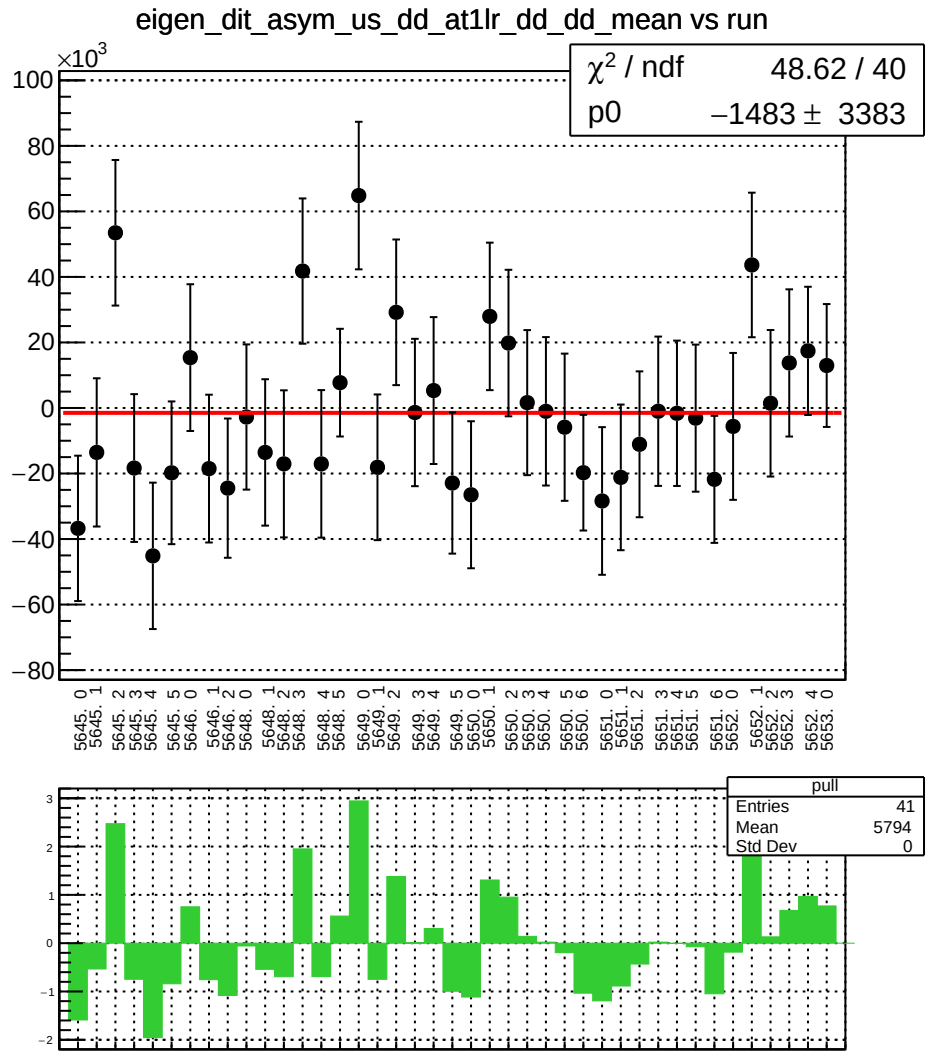

pull1D
Entries 41
Mean 0.000362
Std Dev 1.089

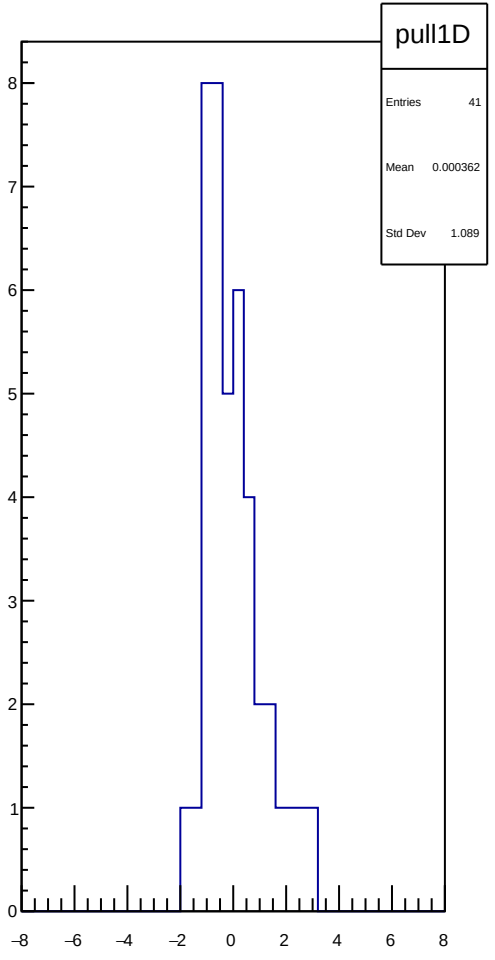

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 97.75 / 40
p0 2127 ± 2.392
2240
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

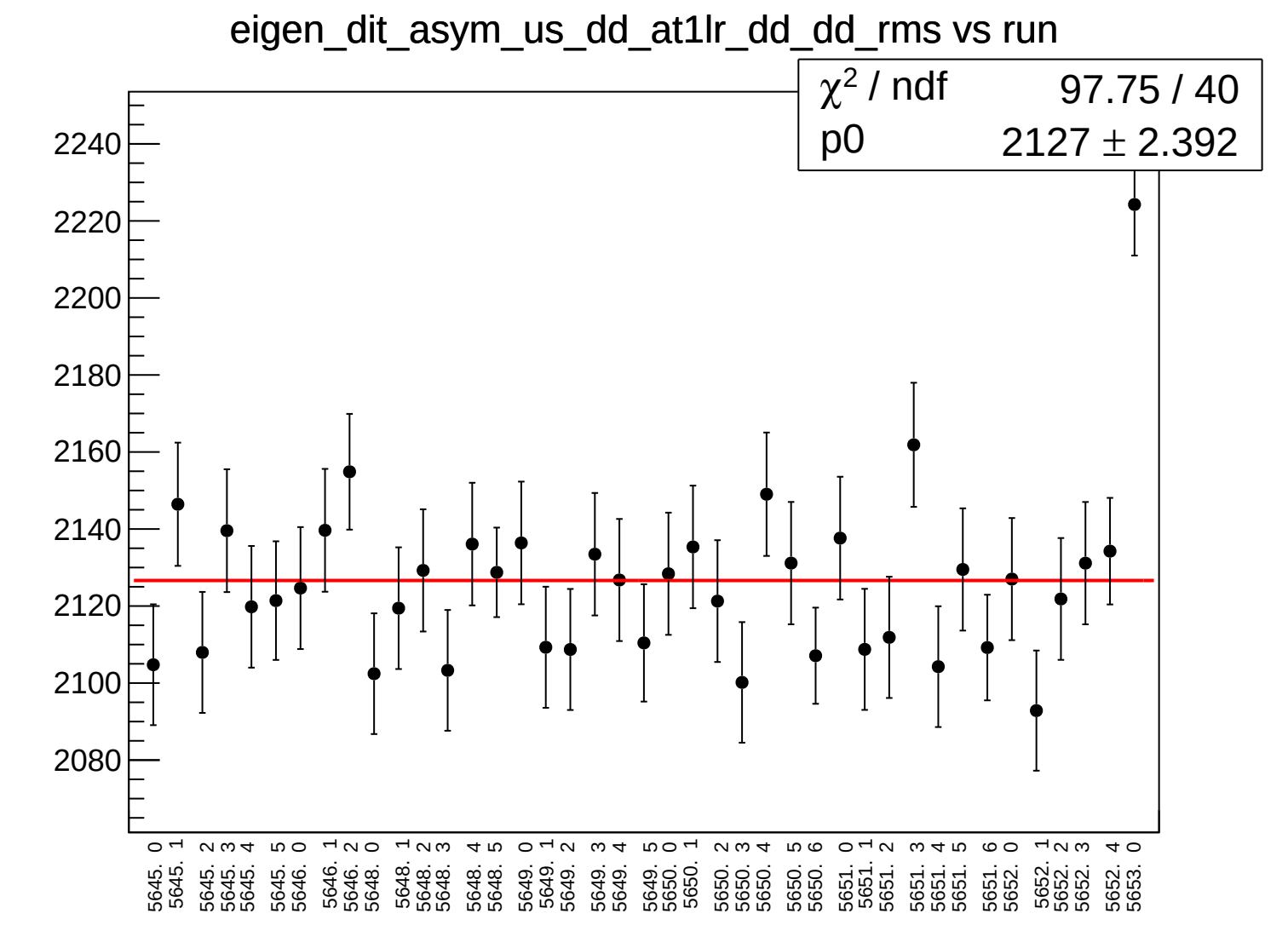

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 34.06 / 40
p0 3162 ± 3165
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 70.51
Std Dev 33.45
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

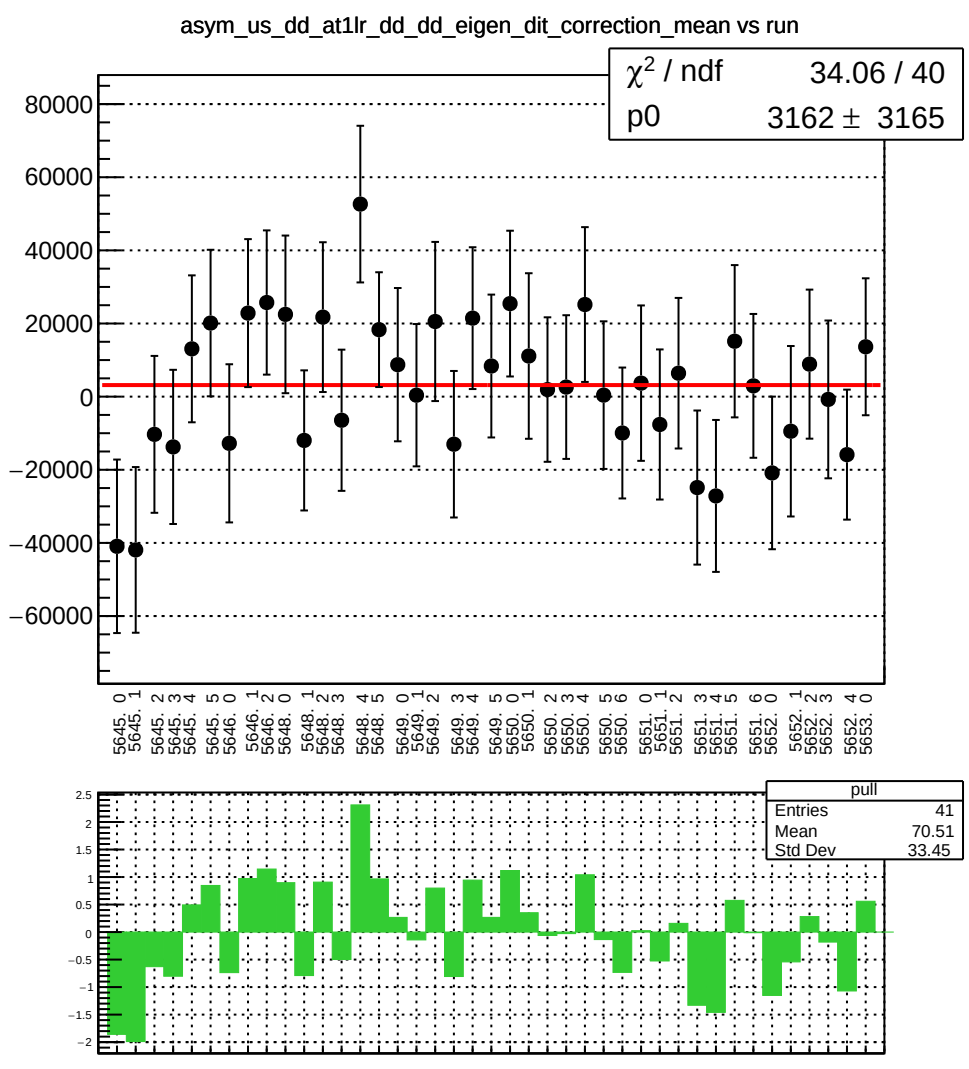

pull1D
Entries 41
Mean −0.01361
Std Dev 0.9113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

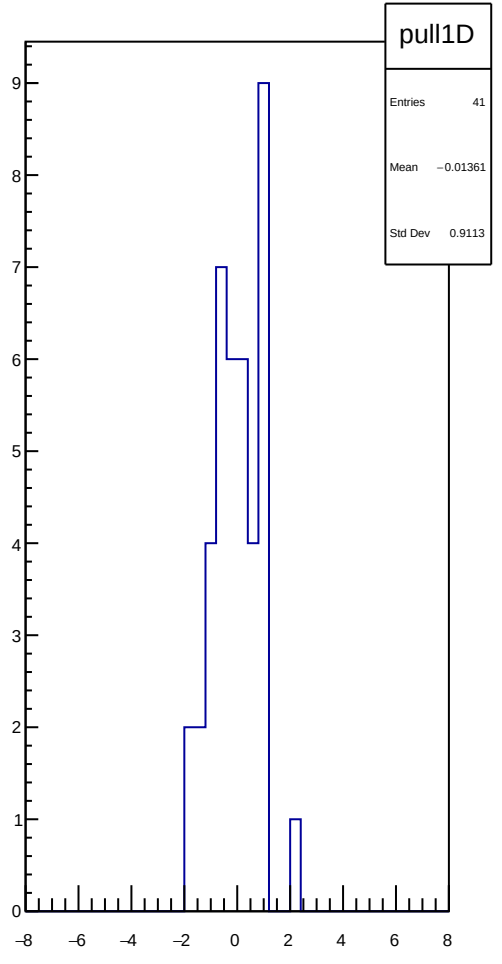

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2225 / 40
p0 1987 ± 2.238
2300
2200
2100
2000
1900
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

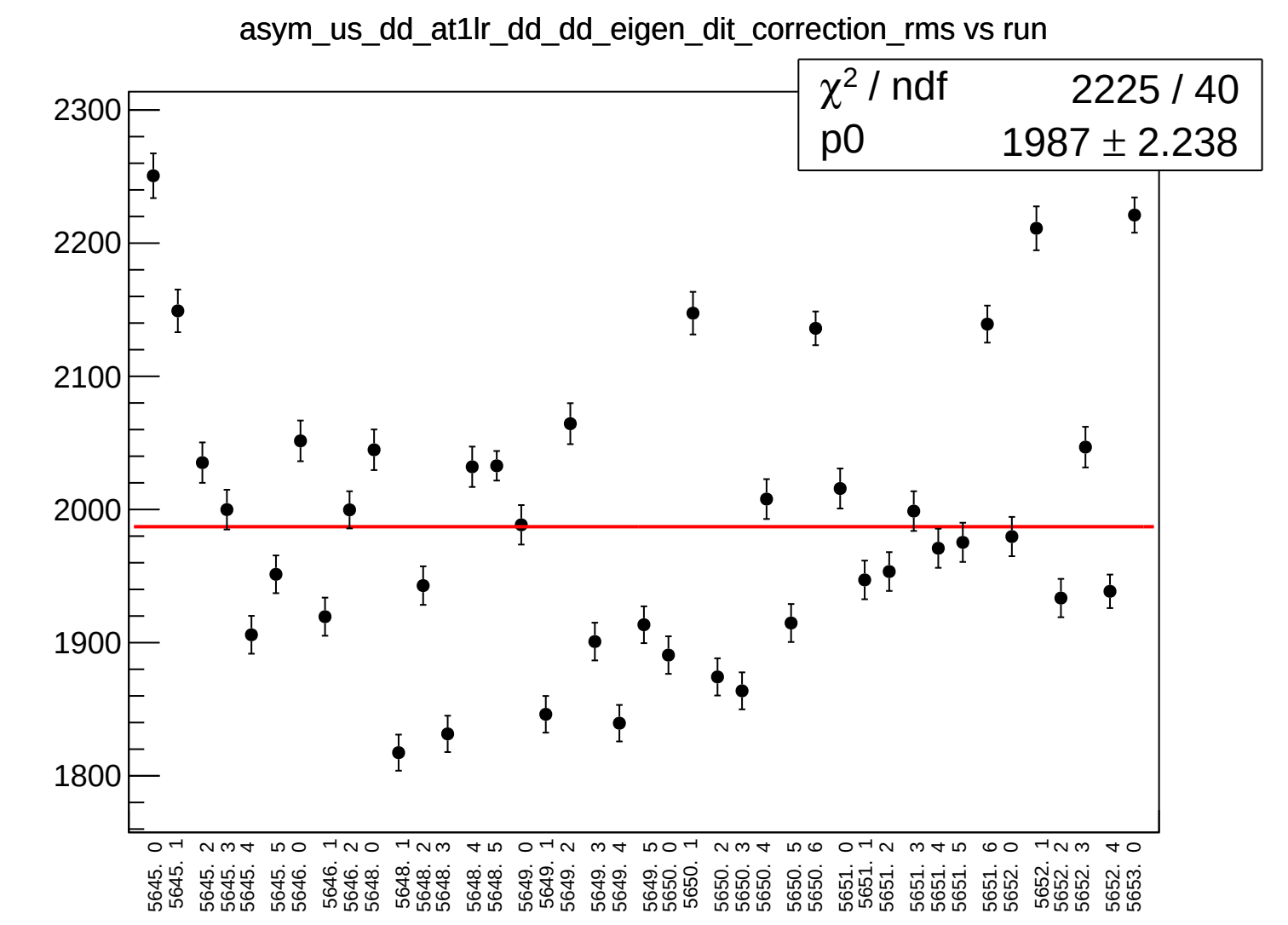

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 48.62 / 40
p0 −1483 ± 3383
pull
Entries 41
Mean 5794
Std Dev 0

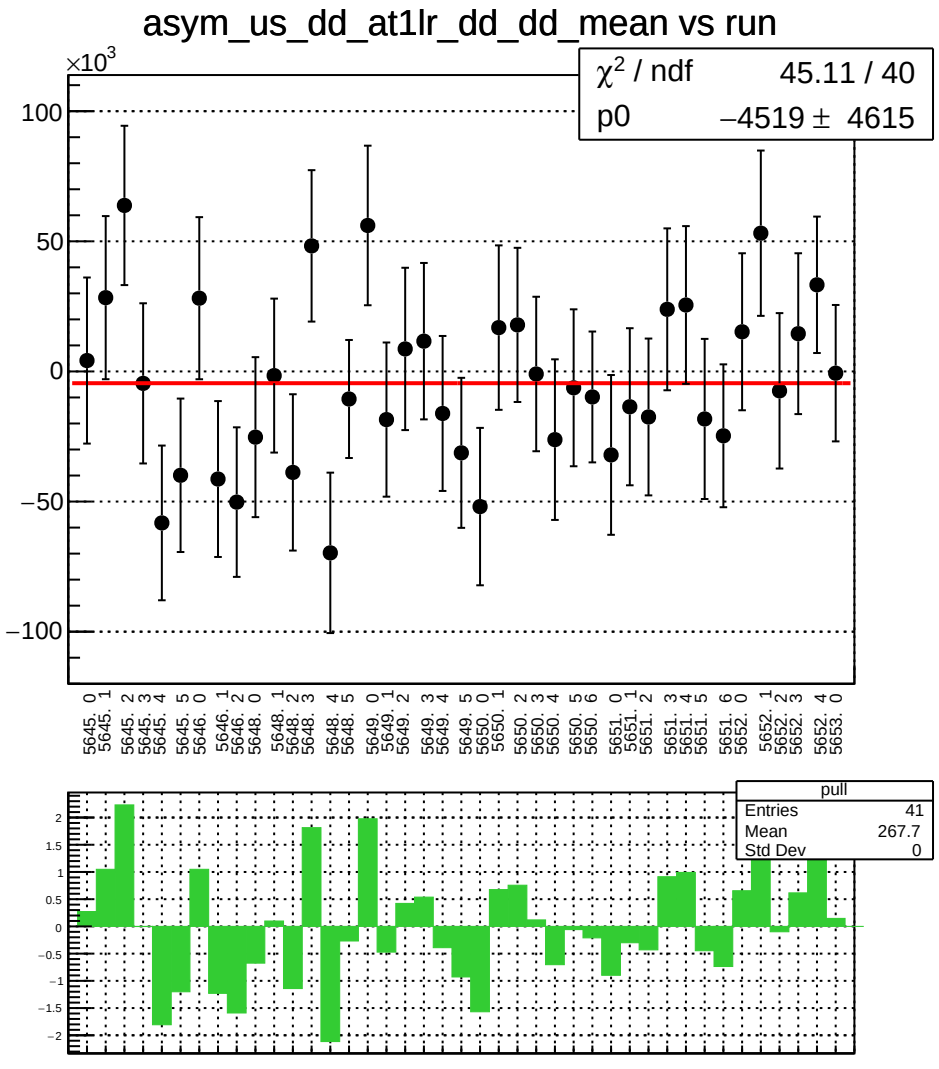

pull1D
Entries 41
Mean 0.000362
Std Dev 1.089

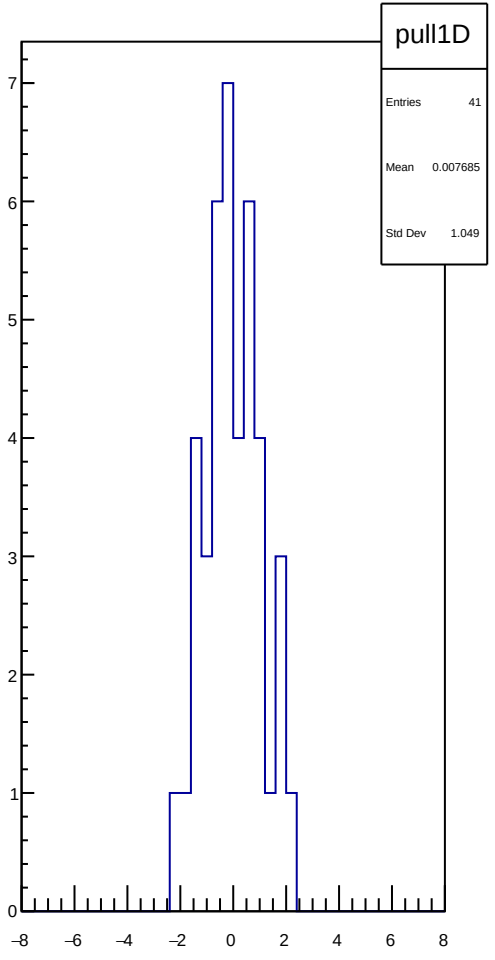

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 97.75 / 40
p0 2127 ± 2.392
2240
2220
2200
2180
2160
2140
2120
2100
2080
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

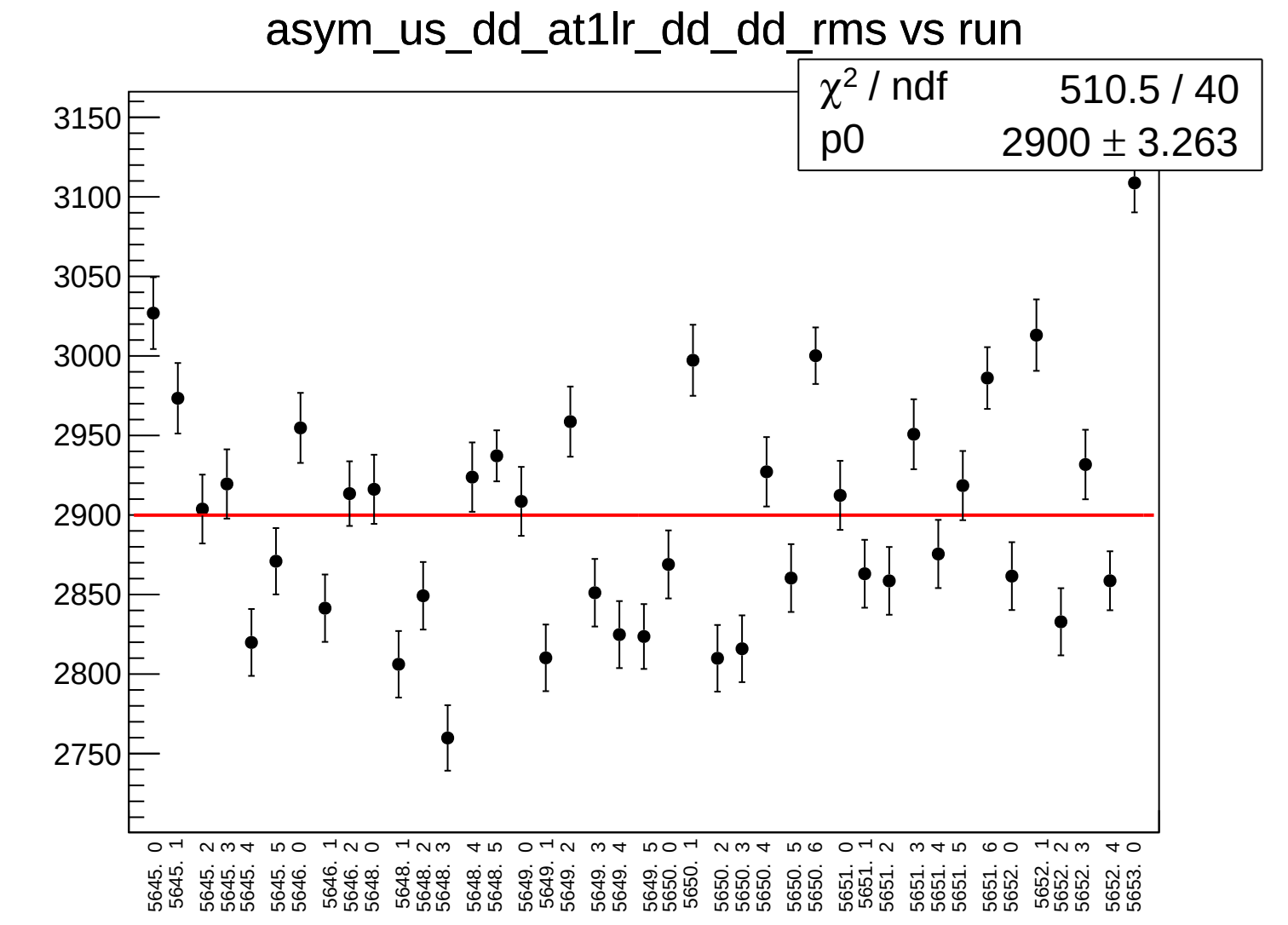

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 34.06 / 40
p0 3162 ± 3165
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 3
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 70.51
Std Dev 33.45
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

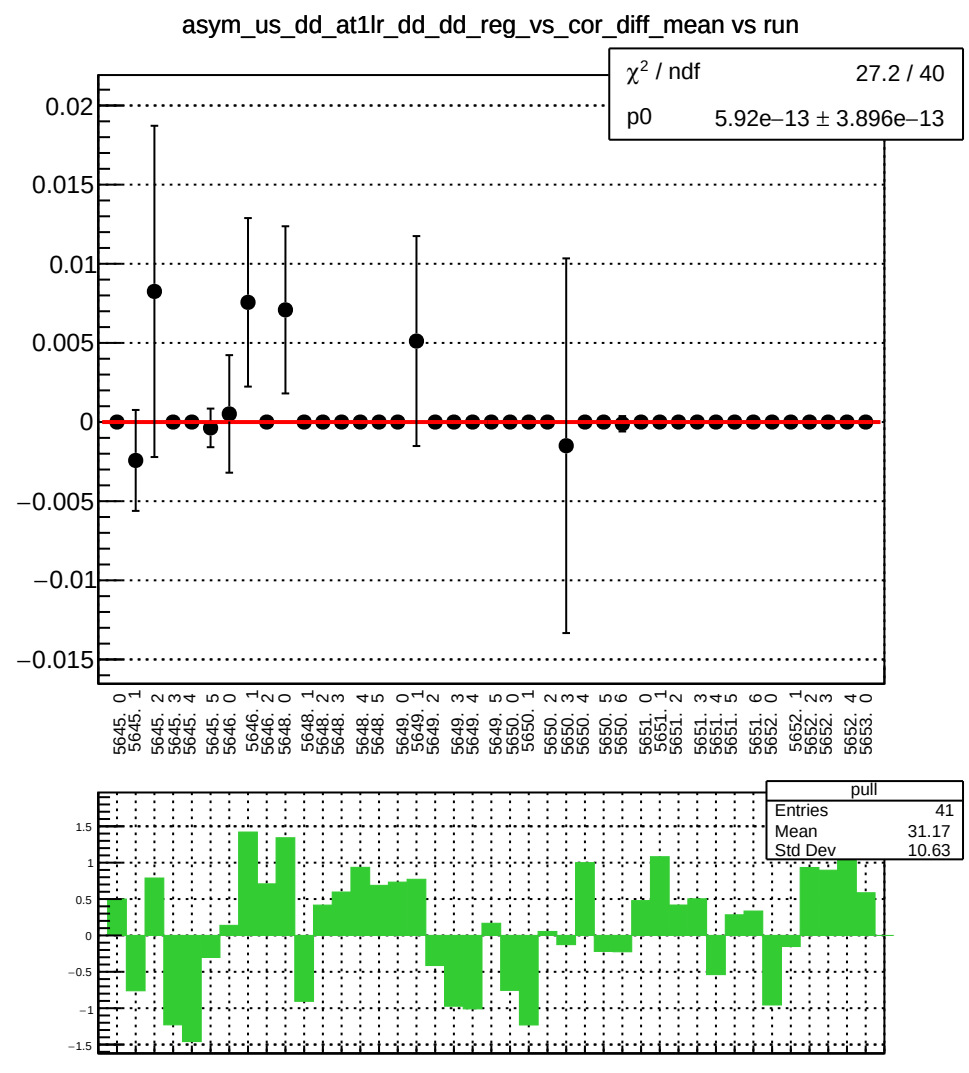

pull1D
Entries 41
Mean −0.01361
Std Dev 0.9113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

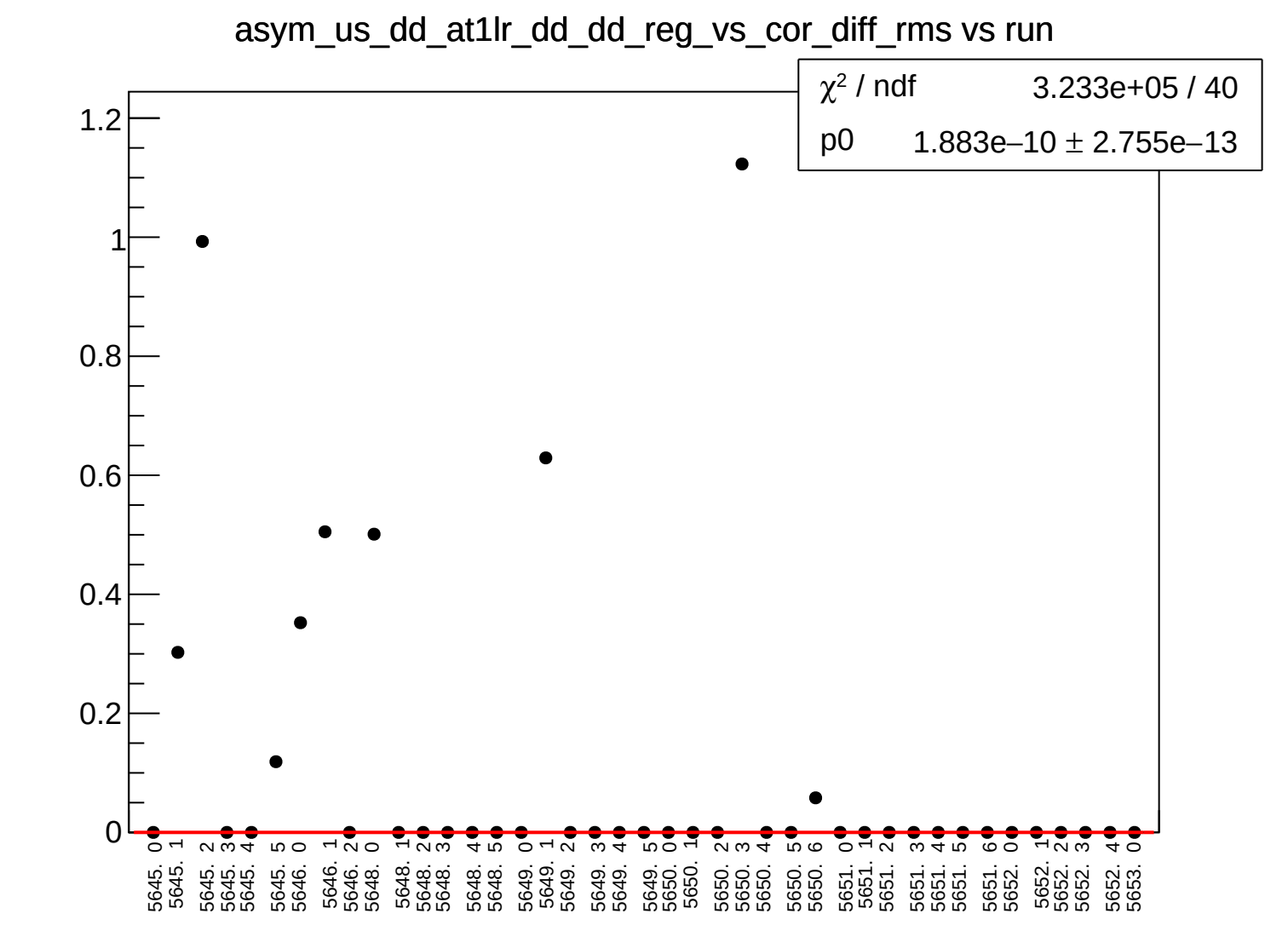

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2225 / 40
p0 1987 ± 2.238
2300
2200
2100
2000
1900
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

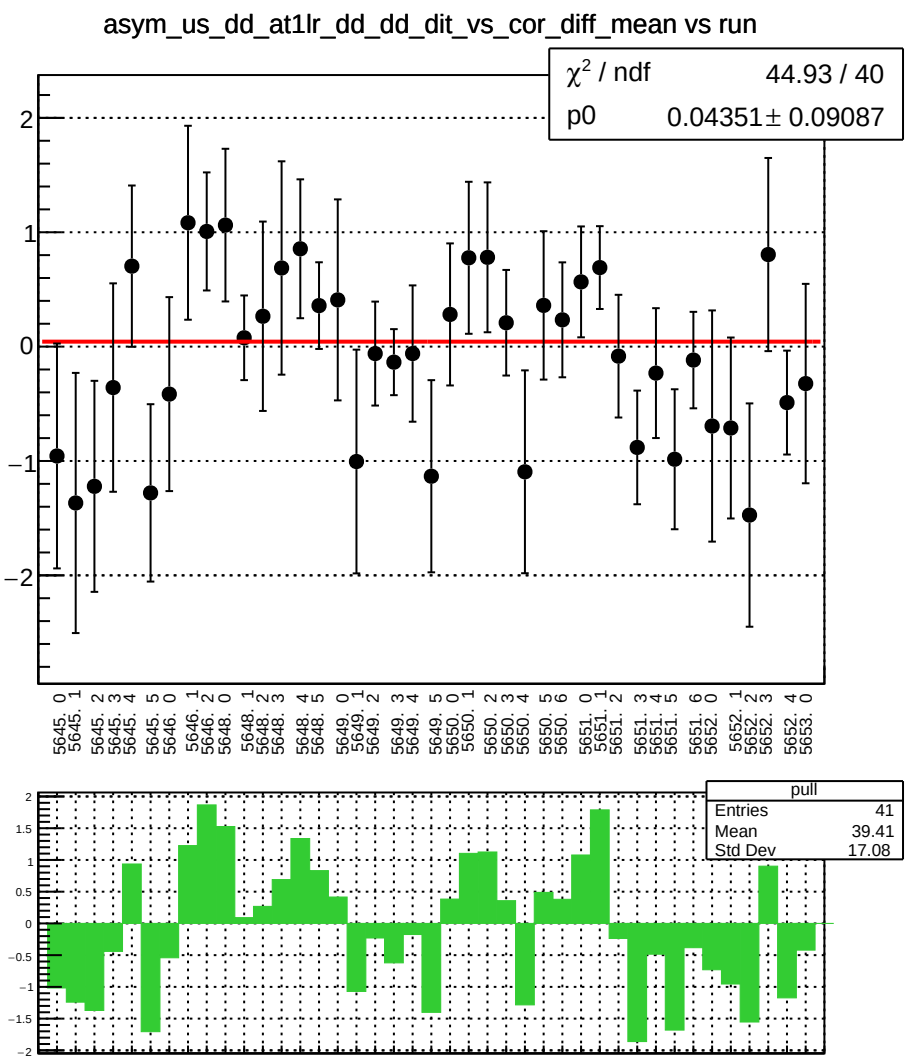

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 45.11 / 40
p0 −4519 ± 4615
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 267.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

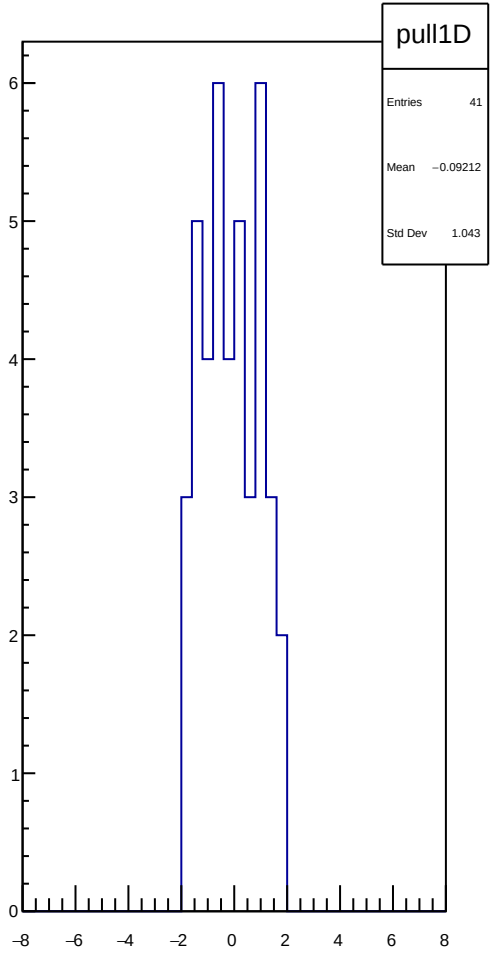

pull1D
Entries 41
Mean 0.007685
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

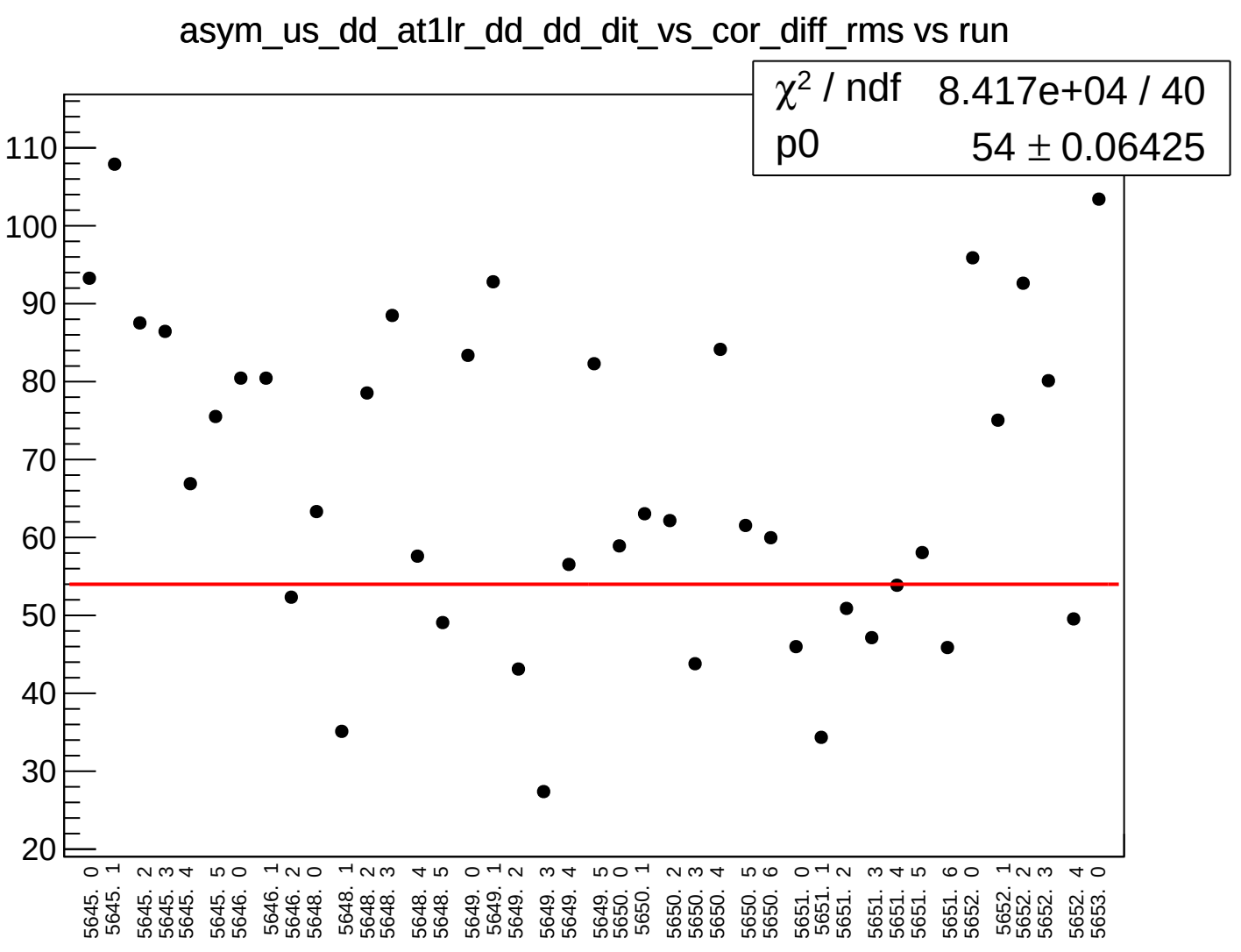

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 510.5 / 40
p0 2900 ± 3.263
3150
3100
3050
3000
2950
2900
2850
2800
2750
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

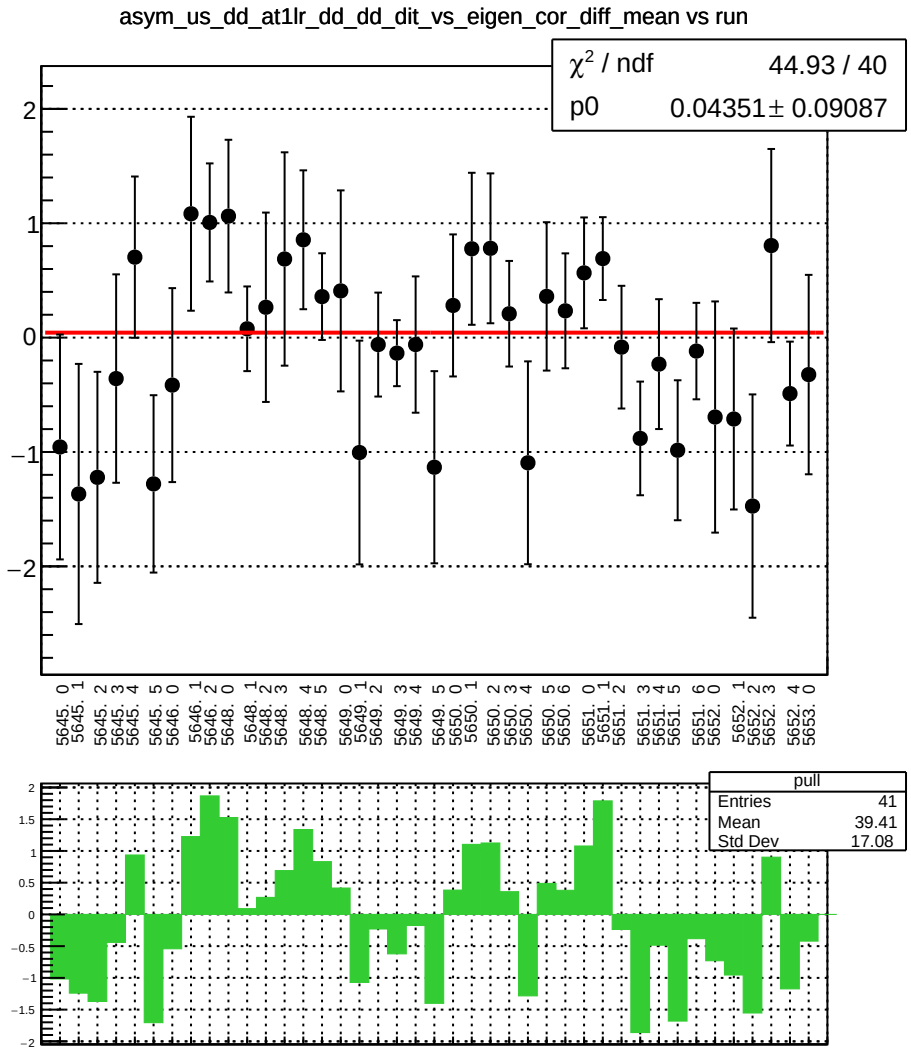

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.2 / 40
p0 5.92e−13 ± 3.896e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 31.17
Std Dev 10.63
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.1541
Std Dev 0.7997
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

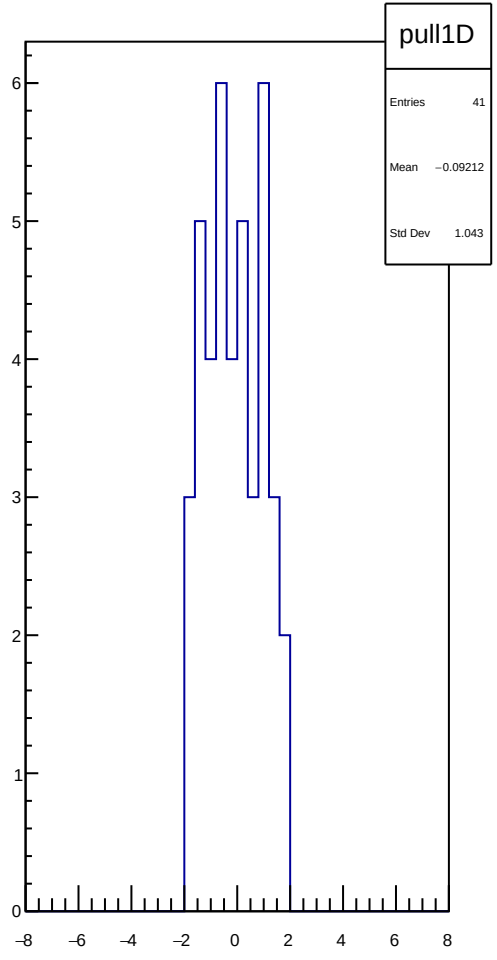

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.233e+05 / 40
p0 1.883e−10 ± 2.755e−13
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

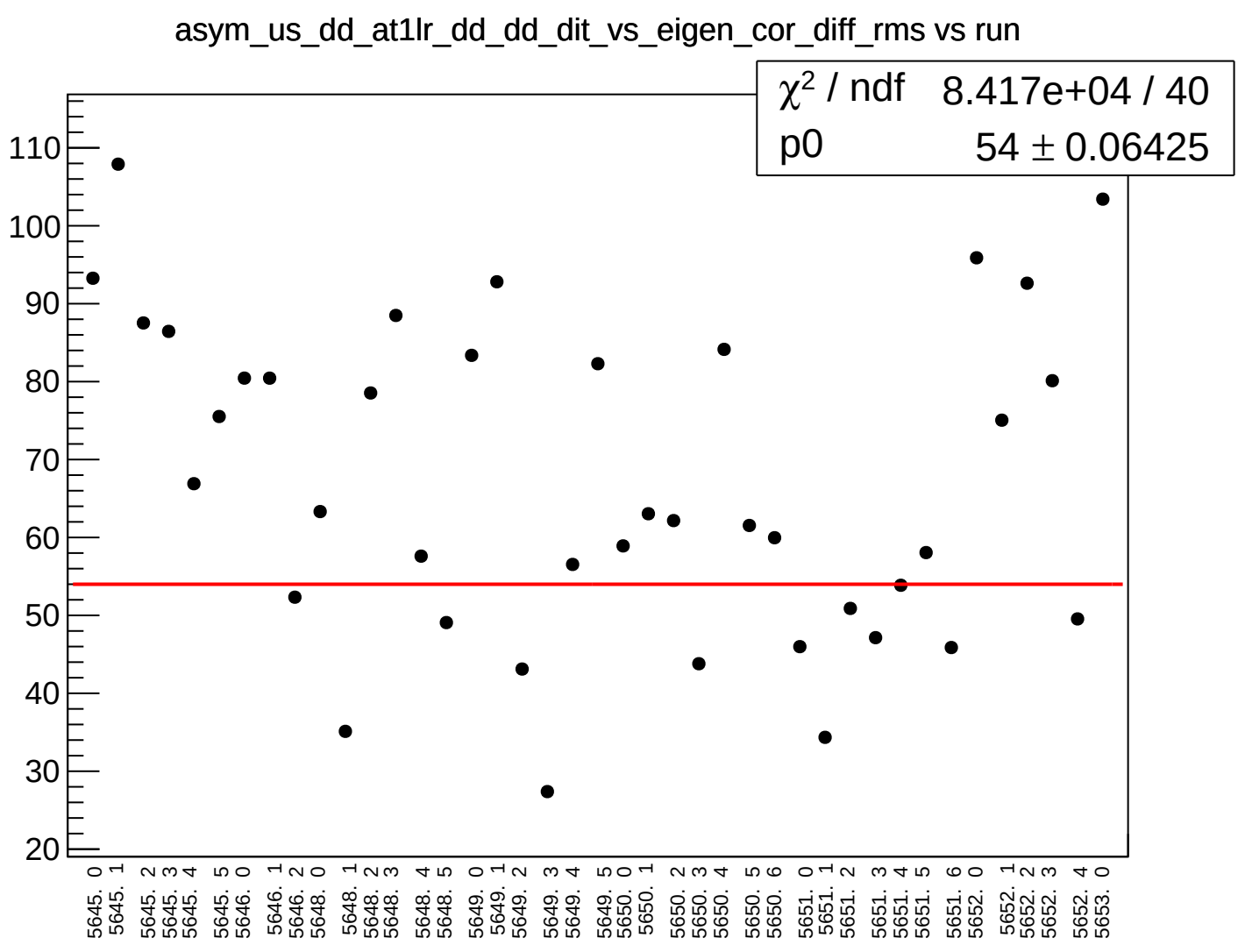

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.93 / 40
p0 0.04351 ± 0.09087
pull
Entries 41
Mean 39.41
Std Dev 17.08

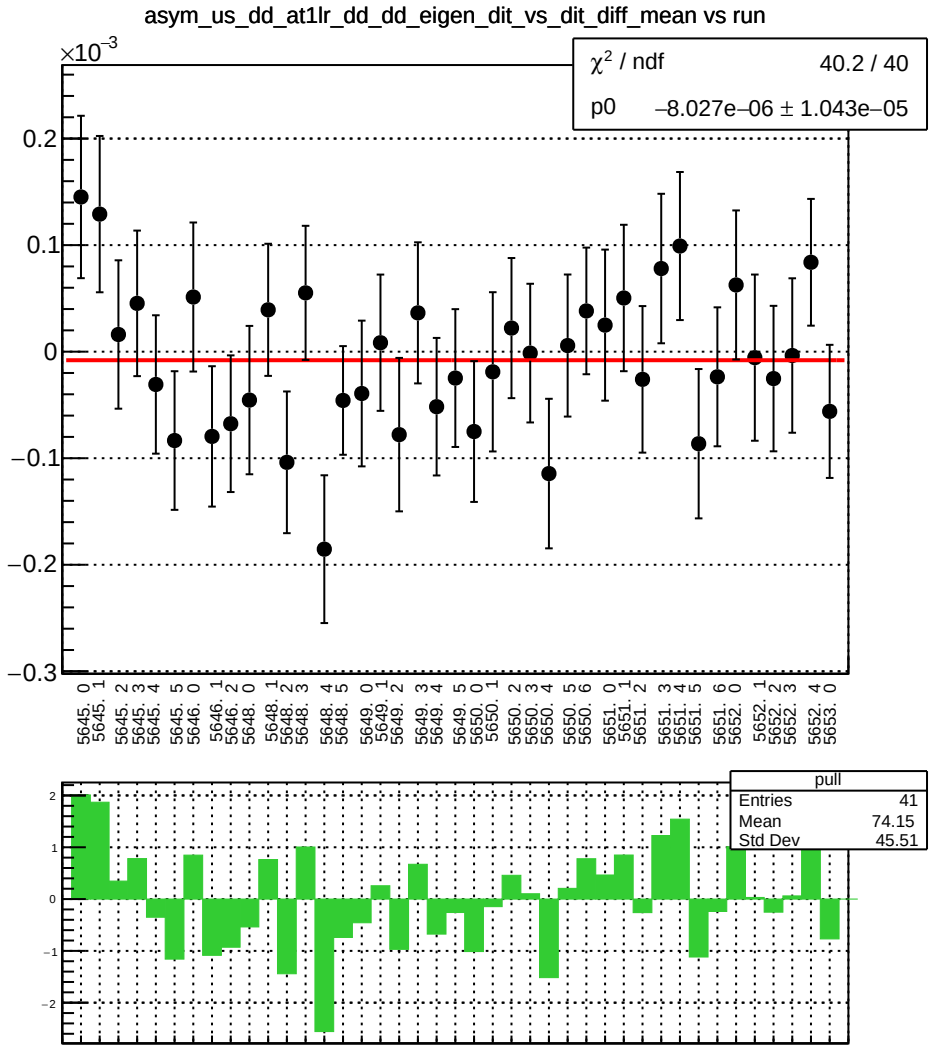

pull1D
Entries 41
Mean −0.09212
Std Dev 1.043

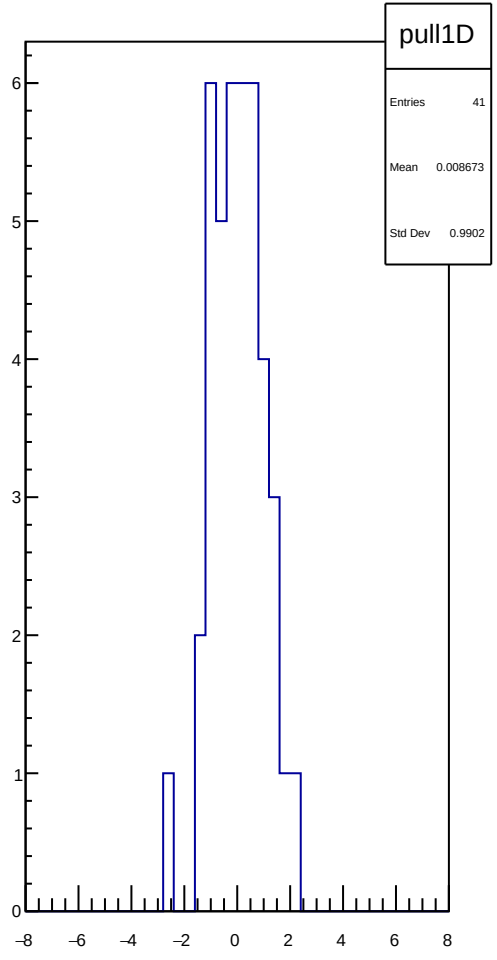

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.417e+04 / 40
p0 54 ± 0.06425
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

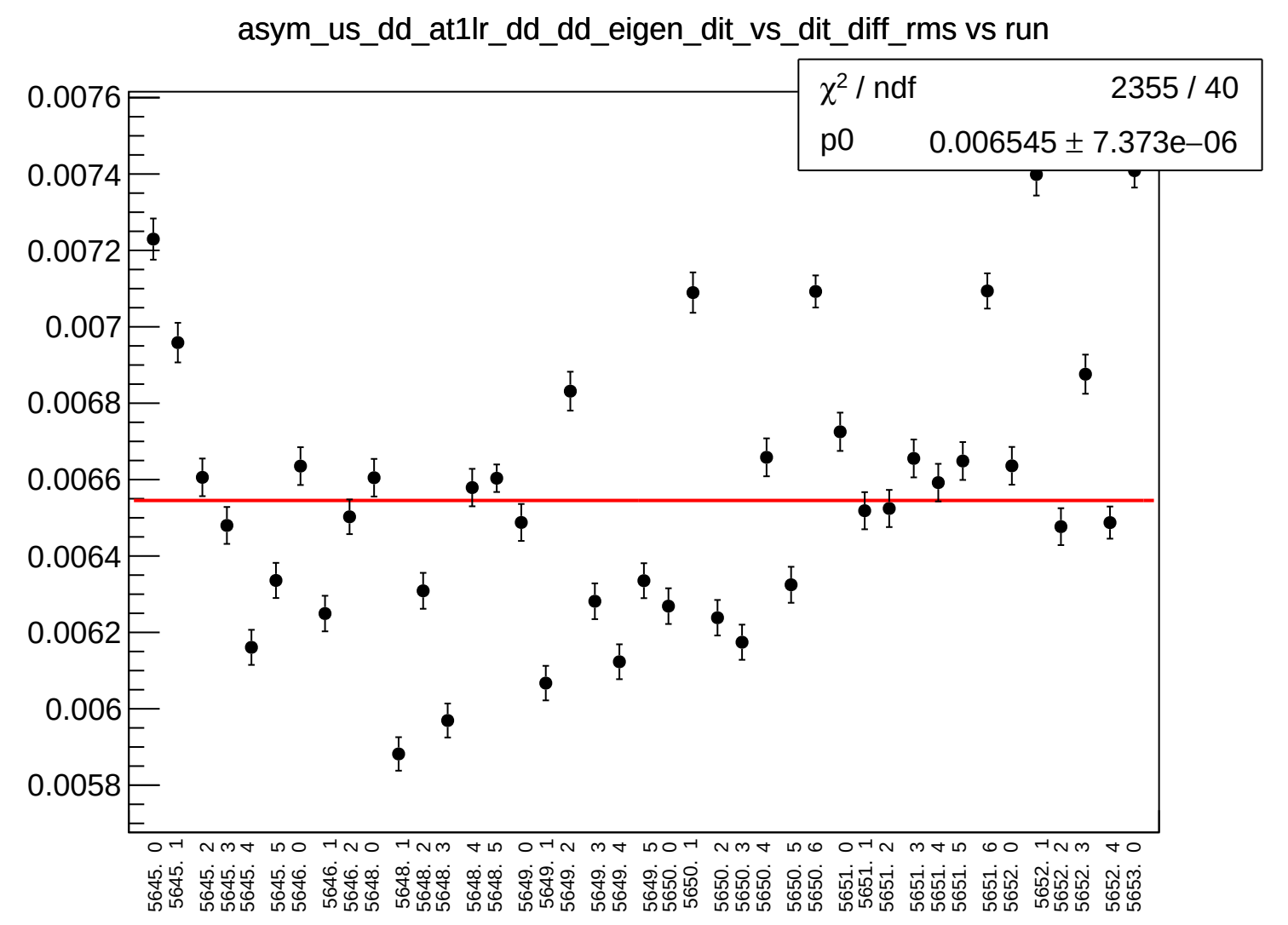

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.93 / 40
p0 0.04351± 0.09087
pull
Entries 41
Mean 39.41
Std Dev 17.08

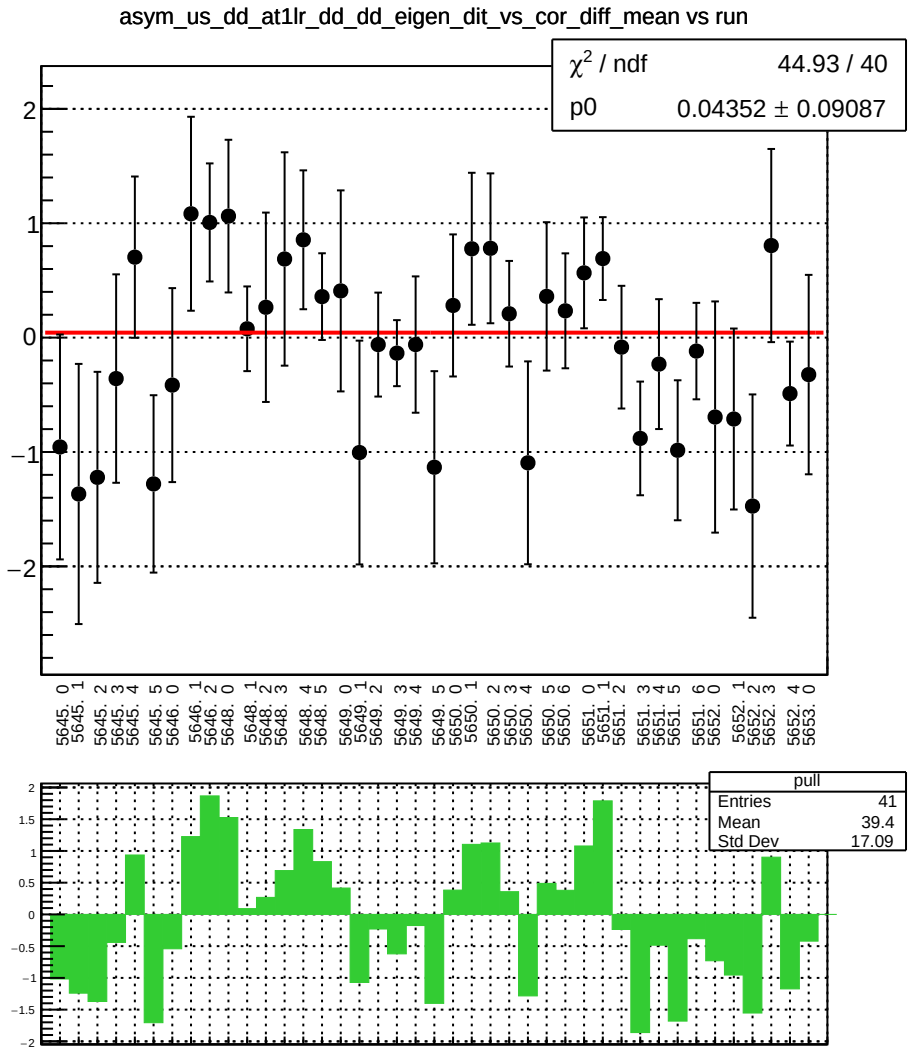

pull1D
Entries 41
Mean −0.09212
Std Dev 1.043

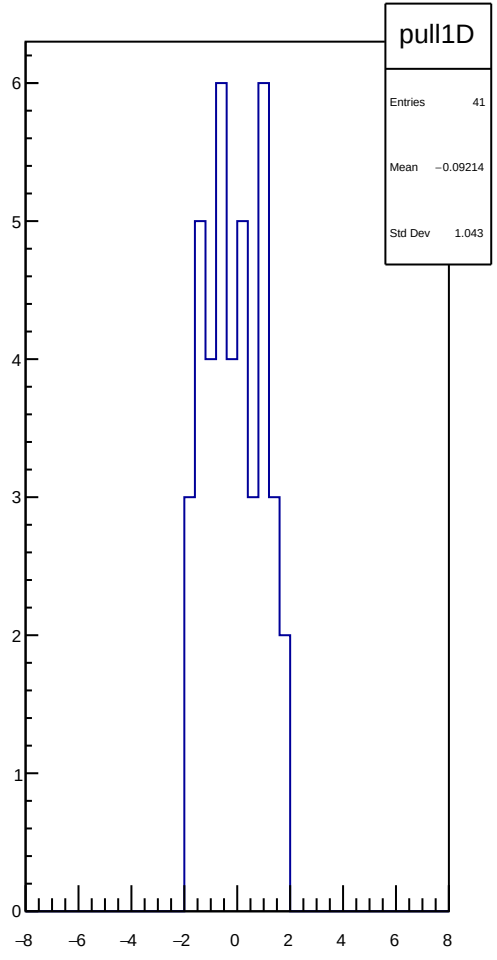

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.417e+04 / 40
p0 54 ± 0.06425
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

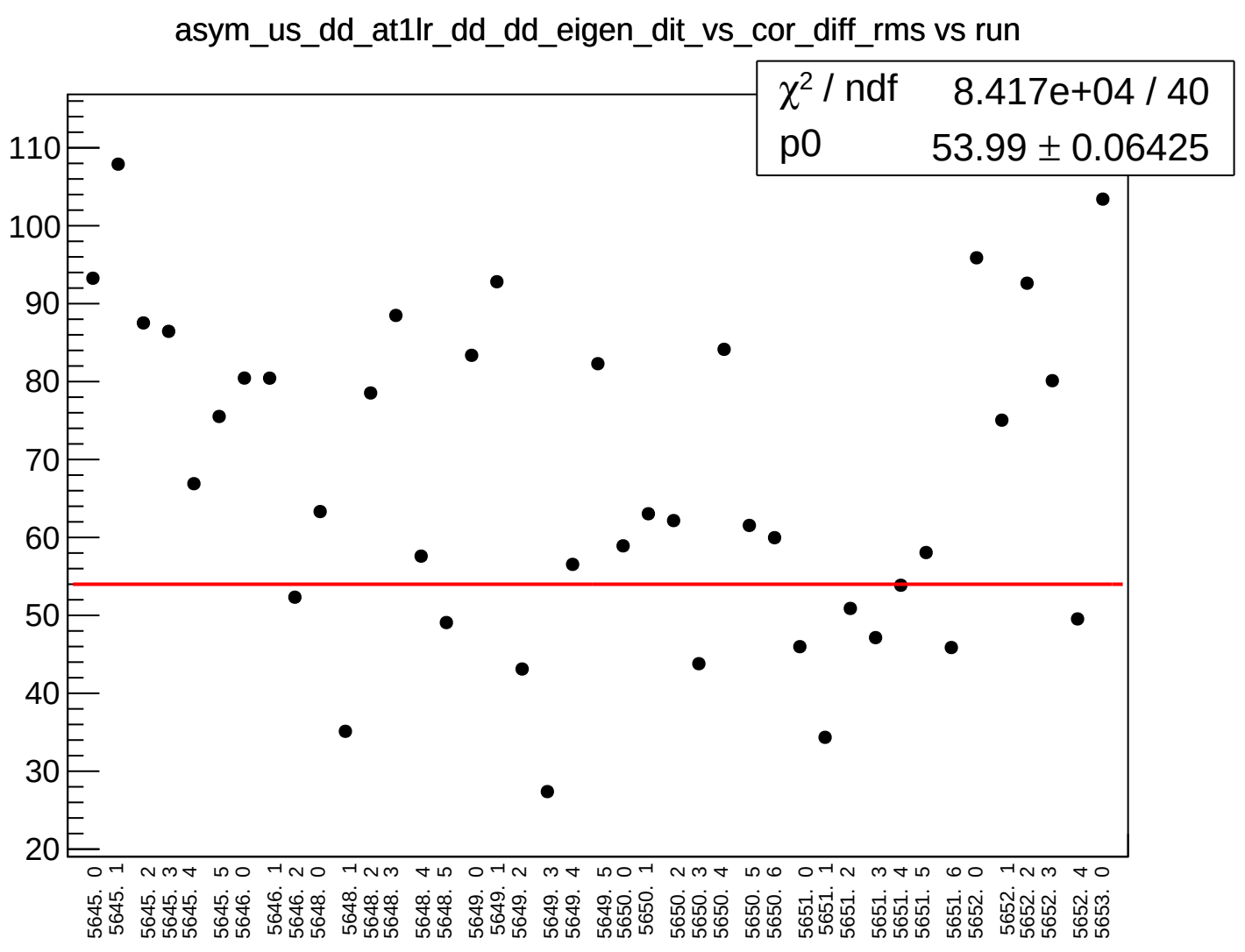

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 40.2 / 40
p0 −8.027e−06 ± 1.043e−05
pull
Entries 41
Mean 74.15
Std Dev 45.51

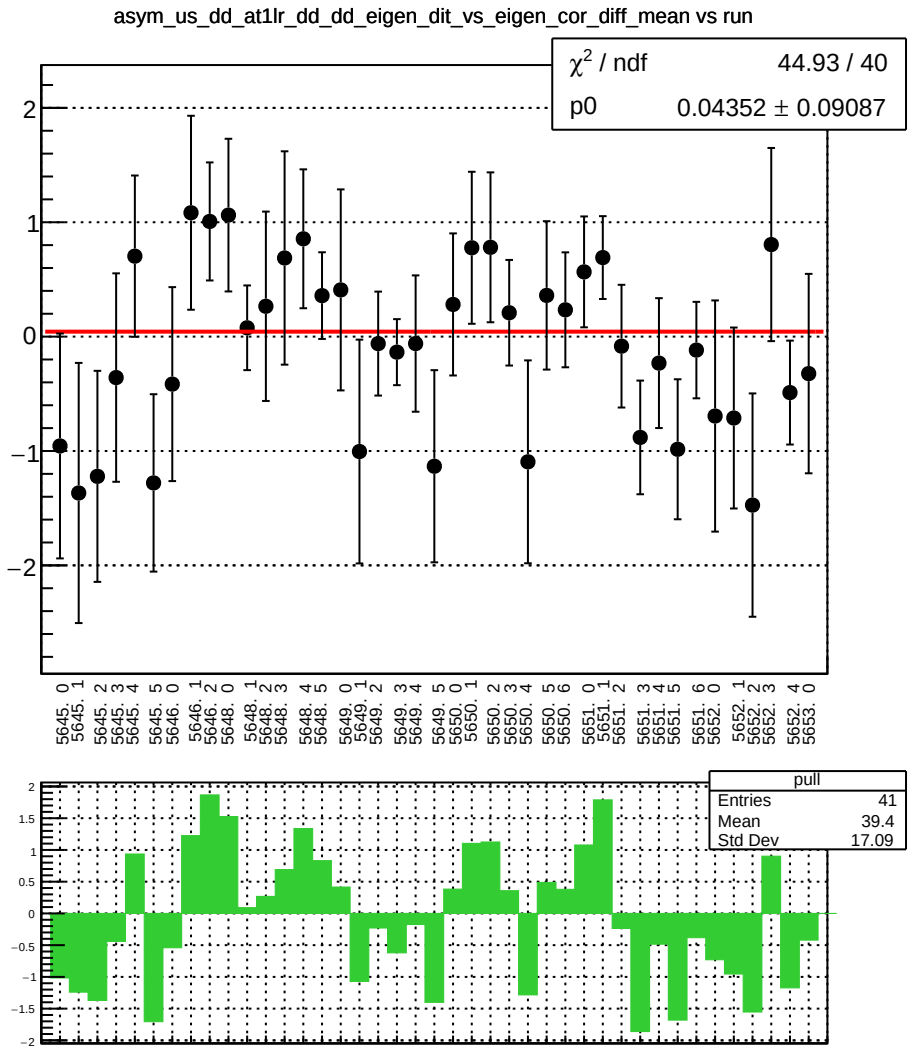

pull1D
Entries 41
Mean 0.008673
Std Dev 0.9902

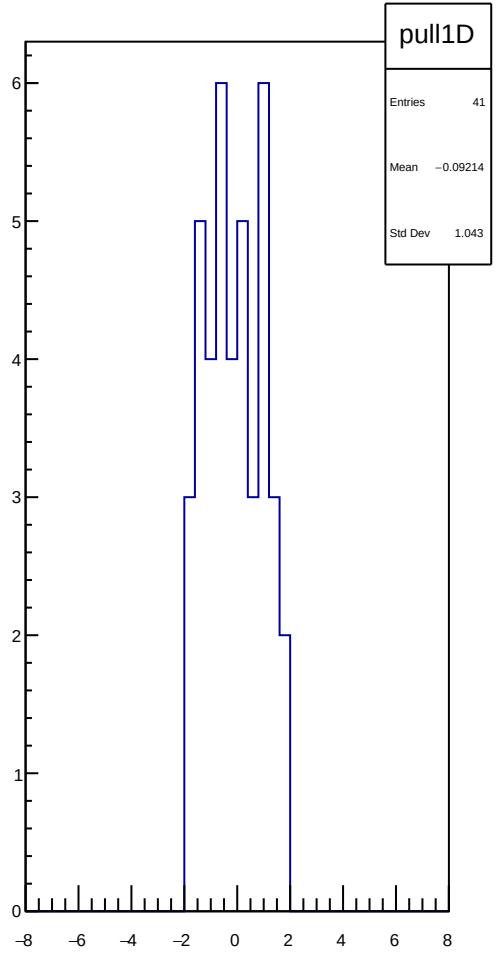

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2355 / 40
p0 0.006545 ± 7.373e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

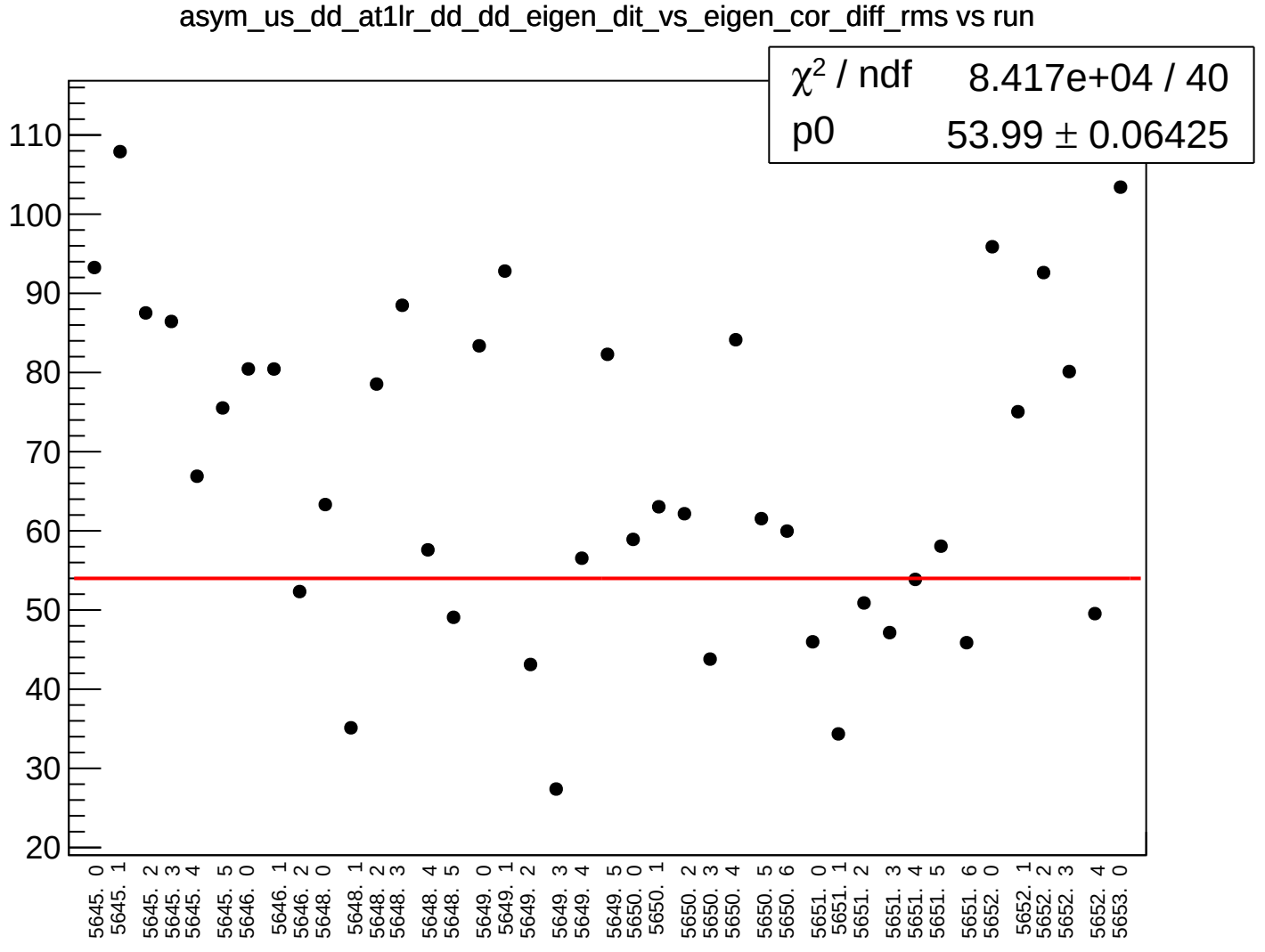

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.93 / 40
p0 0.04352 ± 0.09087
pull
Entries 41
Mean 39.4
Std Dev 17.09

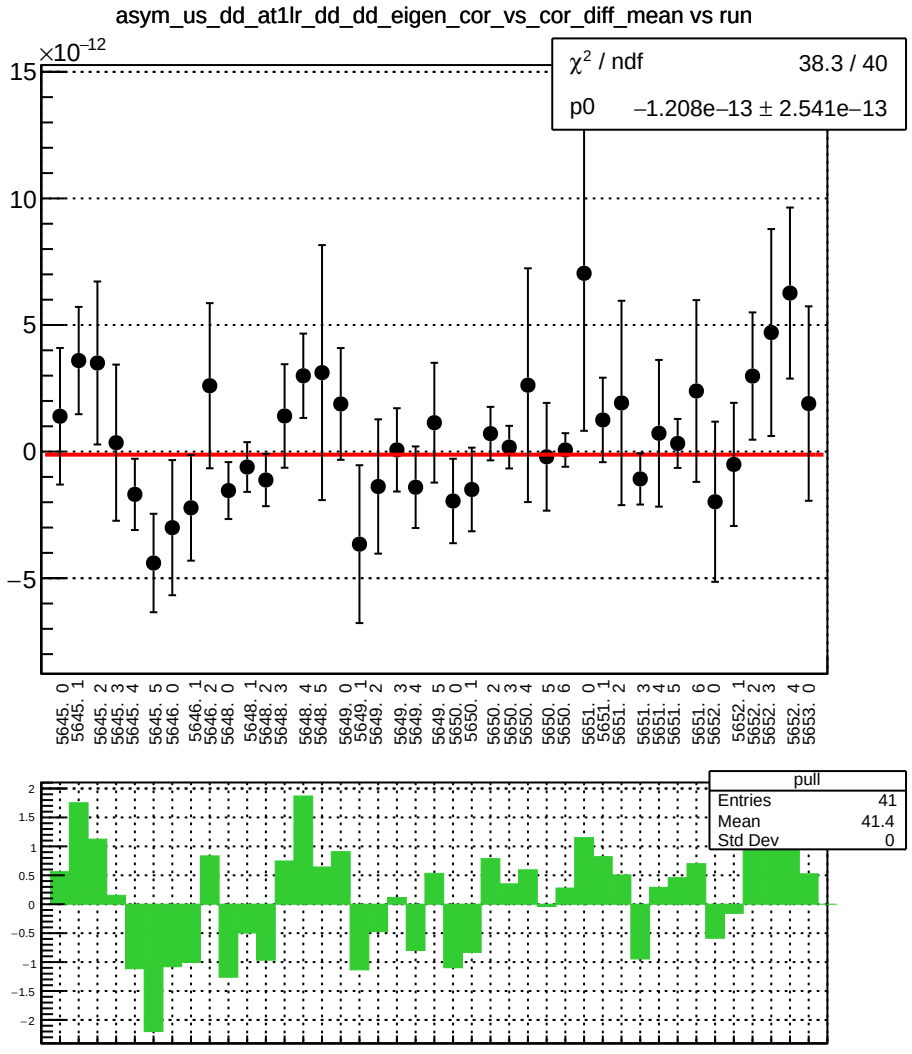

pull1D
Entries 41
Mean −0.09214
Std Dev 1.043

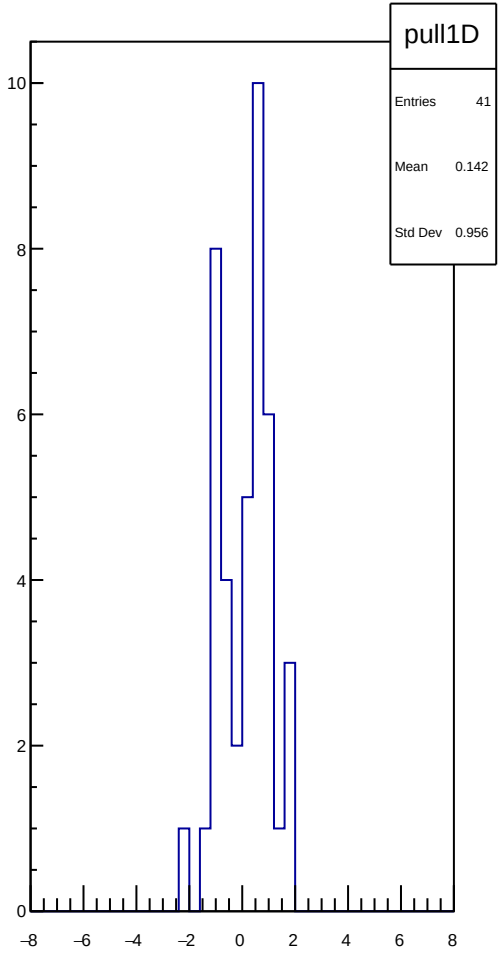

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.417e+04 / 40
p0 53.99 ± 0.06425
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

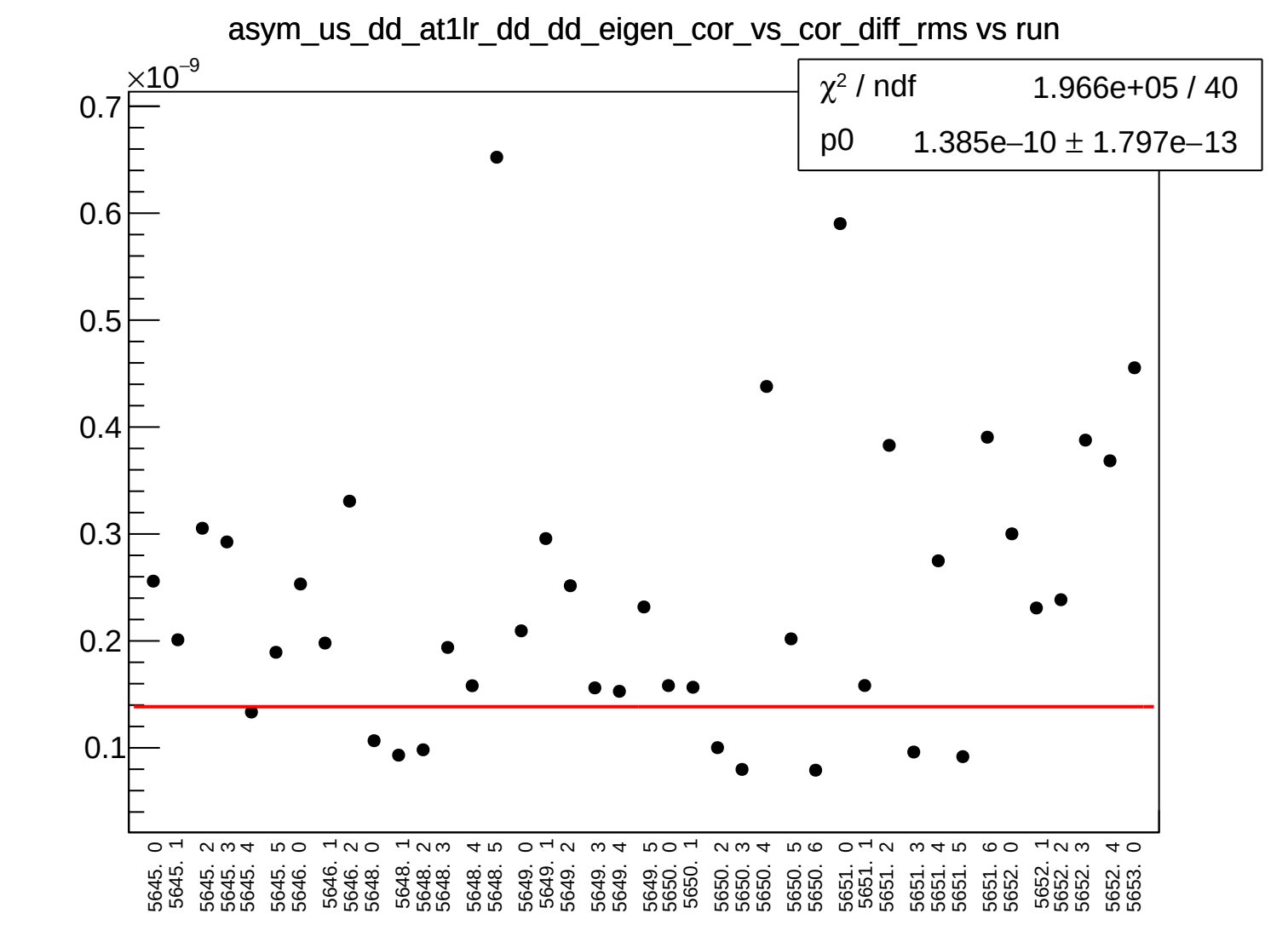

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.93 / 40
p0 0.04352 ± 0.09087
pull
Entries 41
Mean 39.4
Std Dev 17.09

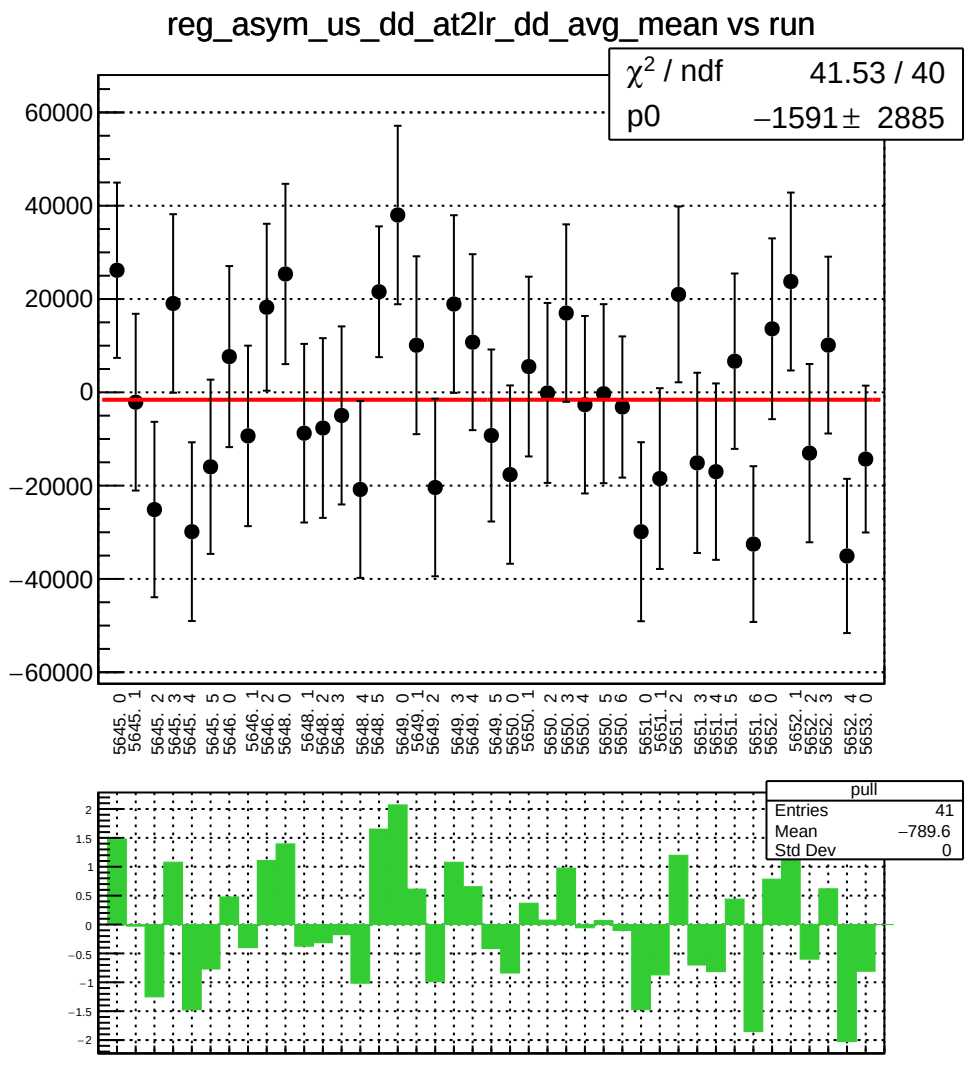

pull1D
Entries 41
Mean −0.09214
Std Dev 1.043

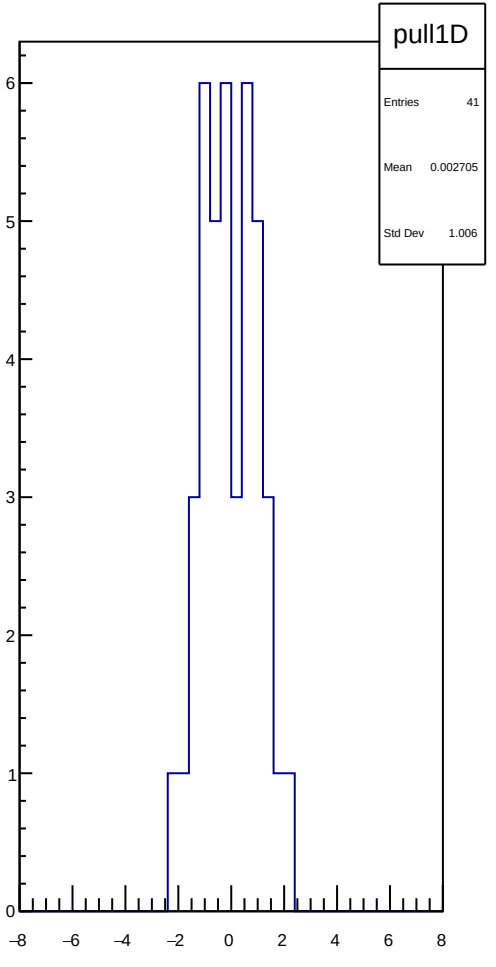

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.417e+04 / 40
p0 53.99 ± 0.06425
110
100
90
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

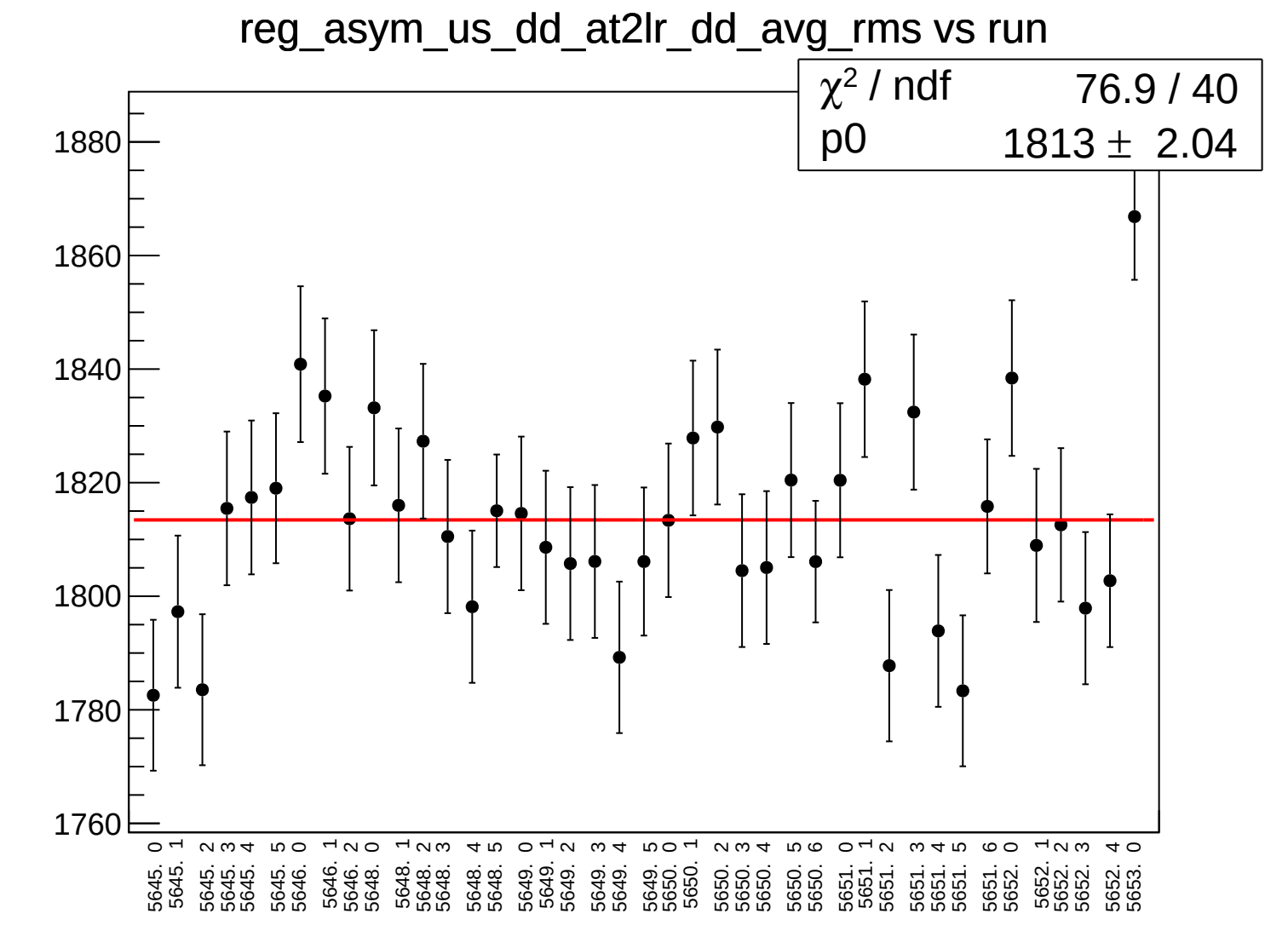

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.3 / 40
p0 −1.208e−13 ± 2.541e−13
pull
Entries 41
Mean 41.4
Std Dev 0

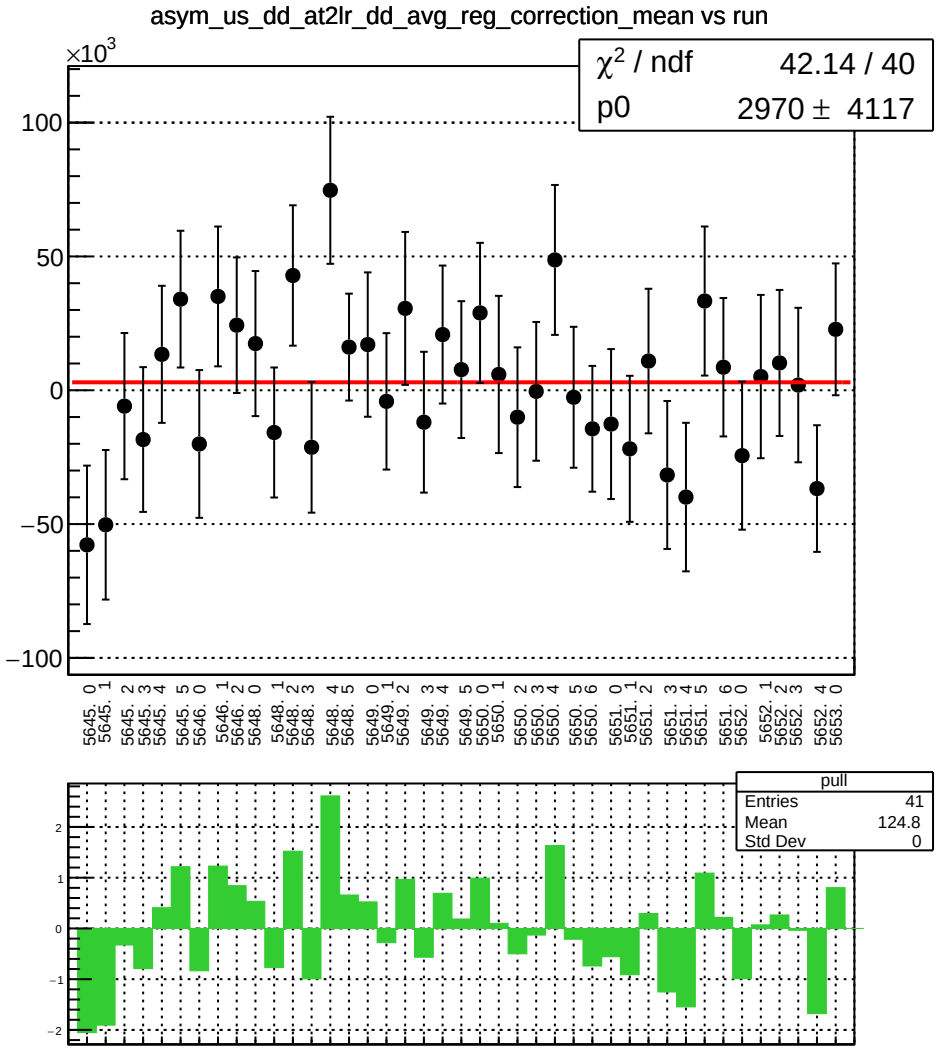

pull1D
Entries 41
Mean 0.142
Std Dev 0.956

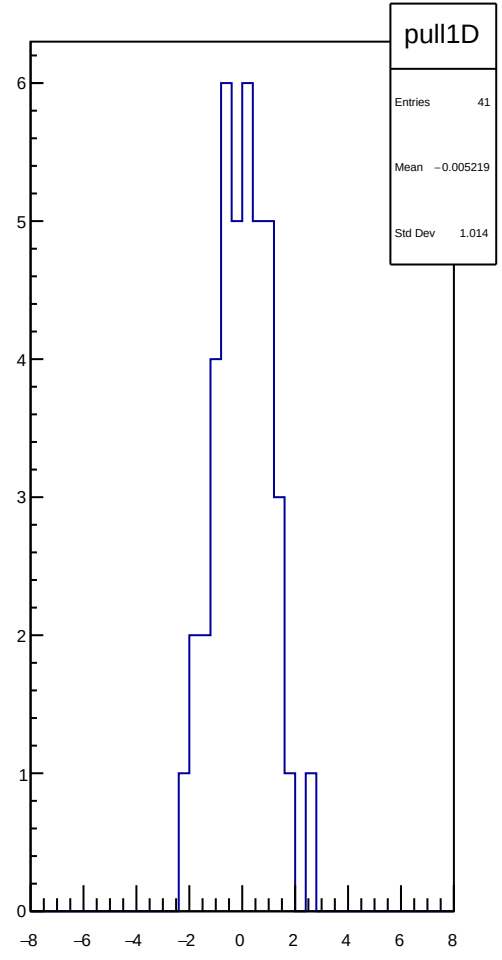

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.966e+05 / 40
p0 1.385e−10 ± 1.797e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

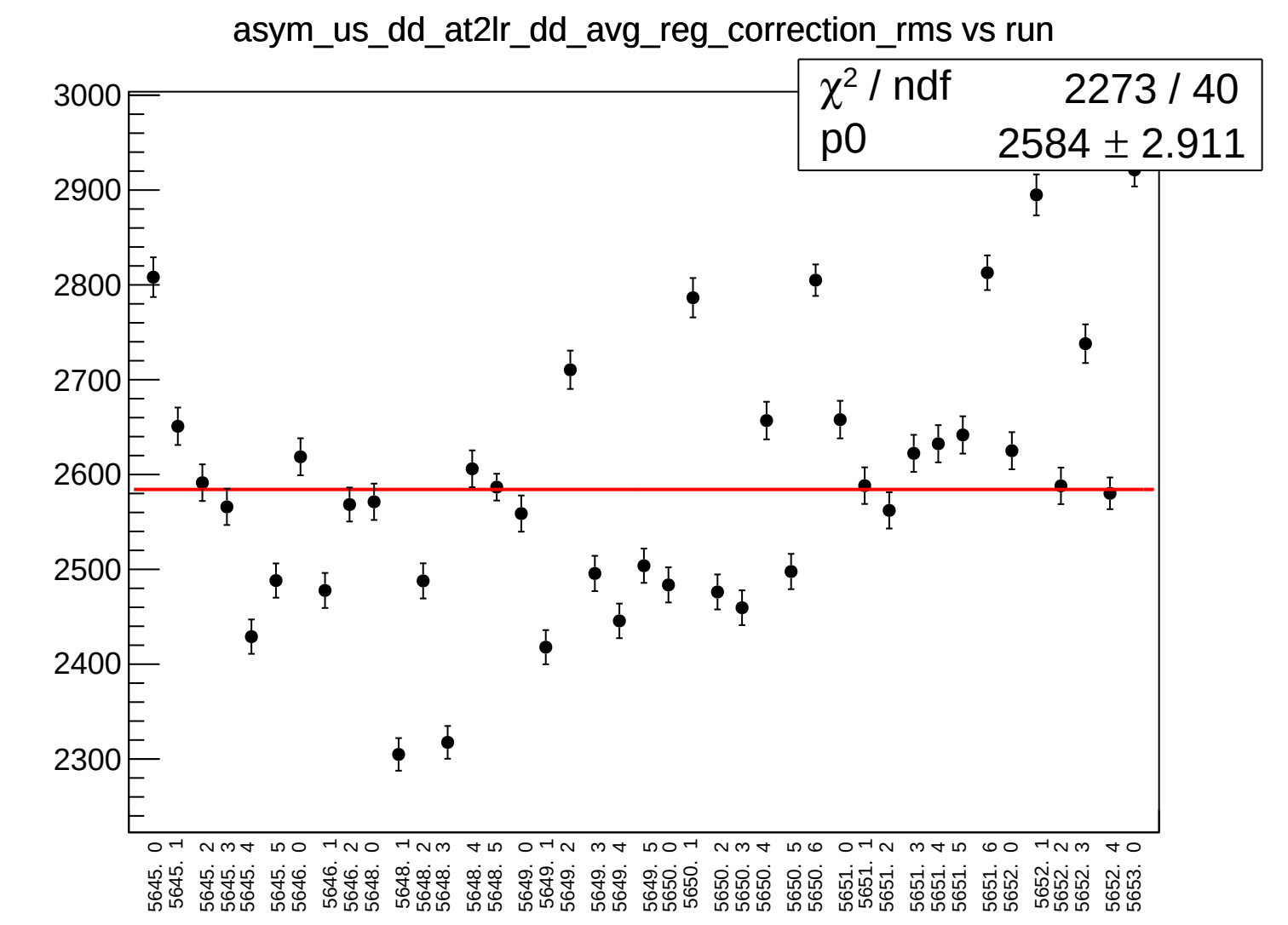

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 41.53 / 40
p0 −1591 ± 2885
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −789.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

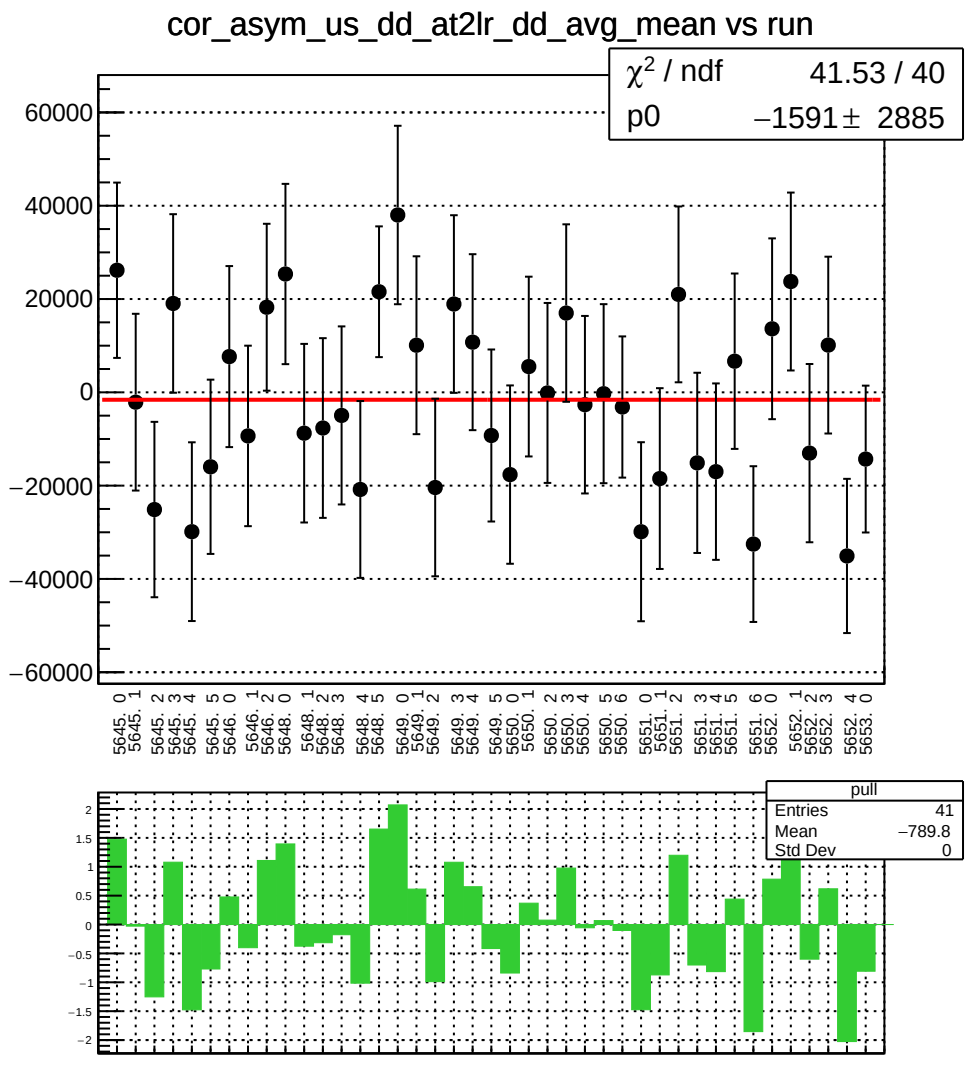

pull1D
Entries 41
Mean 0.002705
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

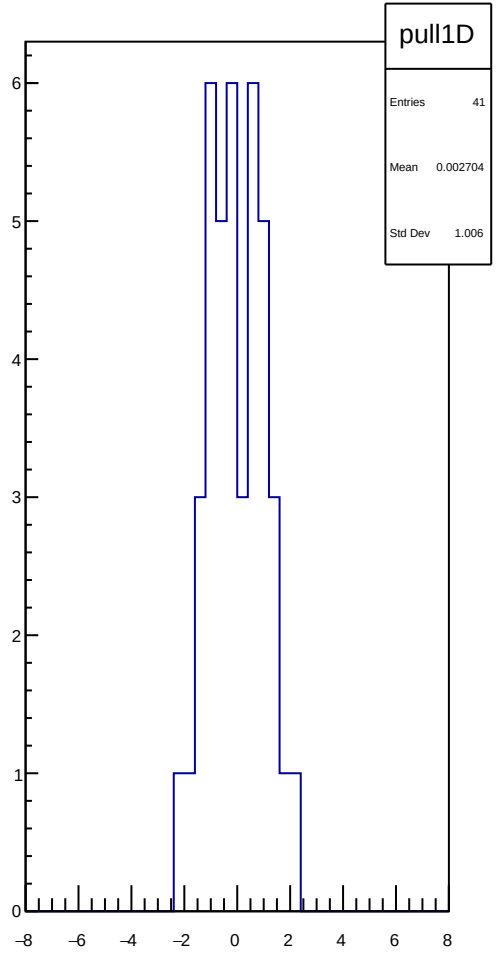

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 76.9 / 40
p0 1813 ± 2.04
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

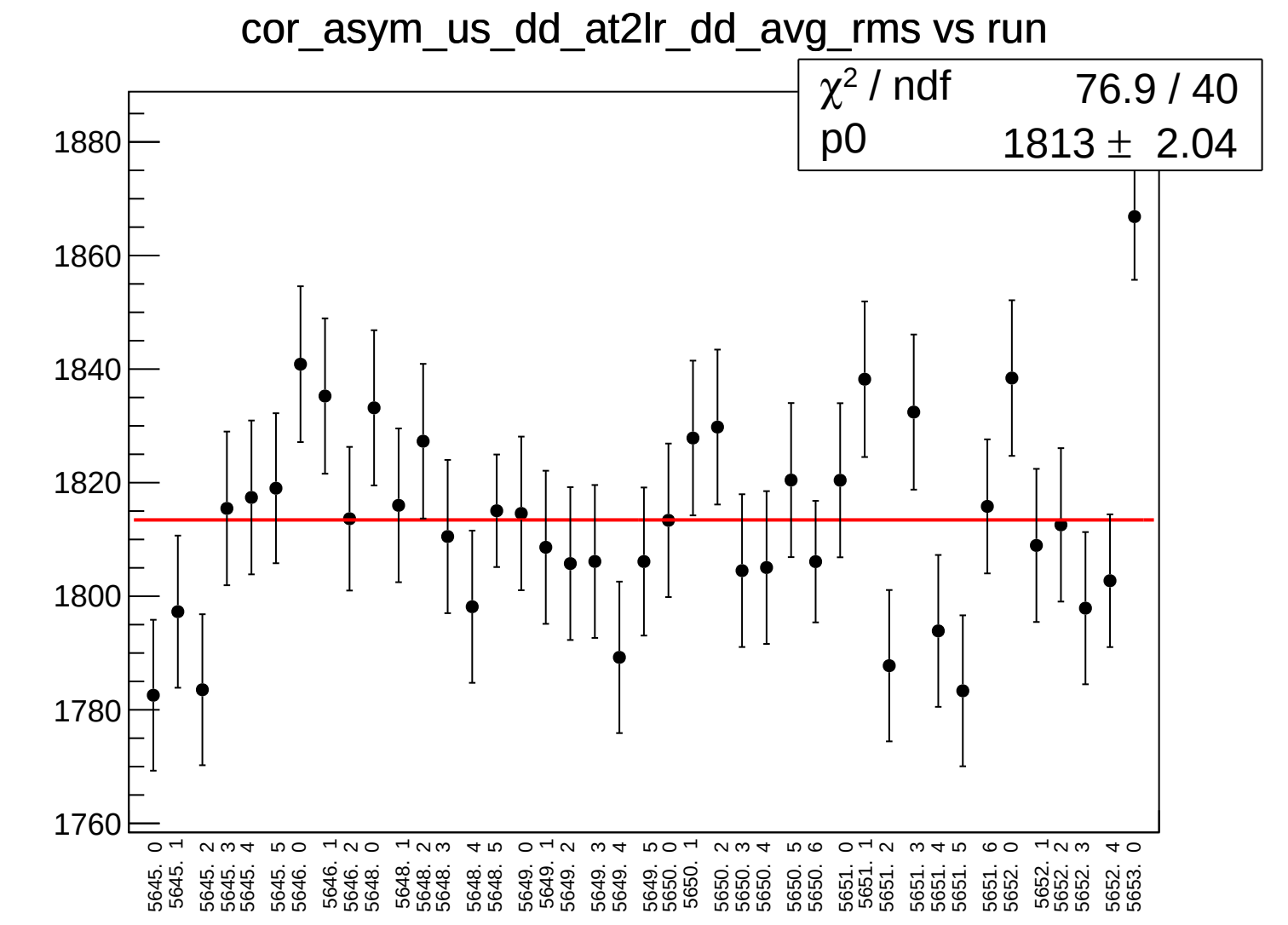

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 42.14 / 40
p0 2970 ± 4117
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 124.8
Std Dev 0
2
1
0
−1
−2

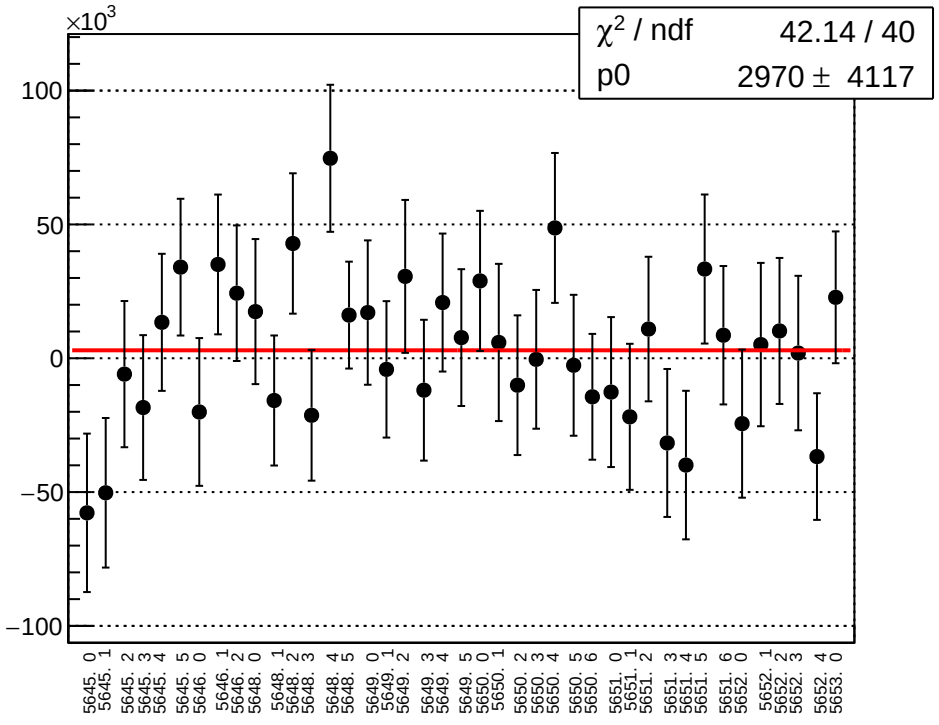

pull1D
Entries 41
Mean −0.005219
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

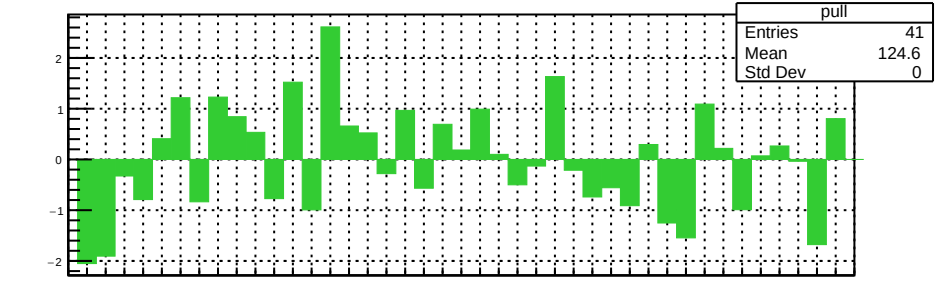

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2273 / 40
p0 2584 ± 2.911
3000
2900
2800
2700
2600
2500
2400
2300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

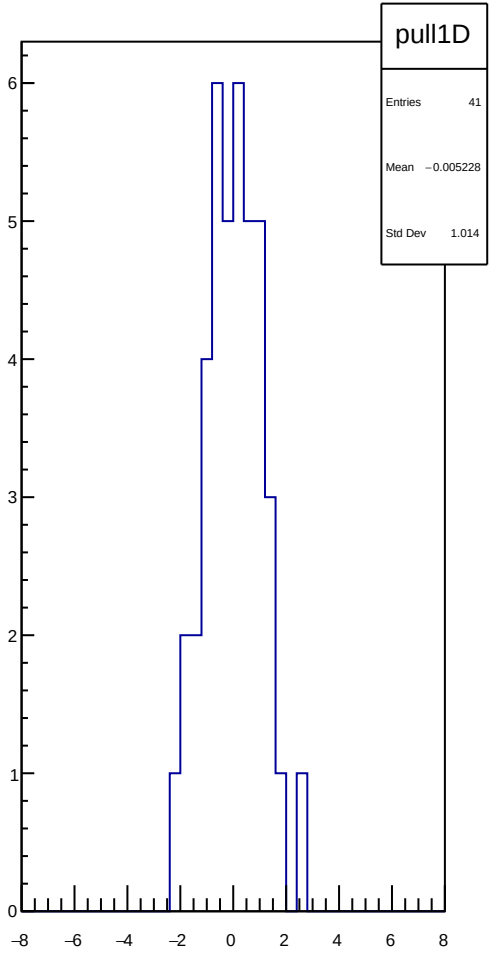

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 41.53 / 40
p0 −1591 ± 2885
pull
Entries 41
Mean −789.8
Std Dev 0

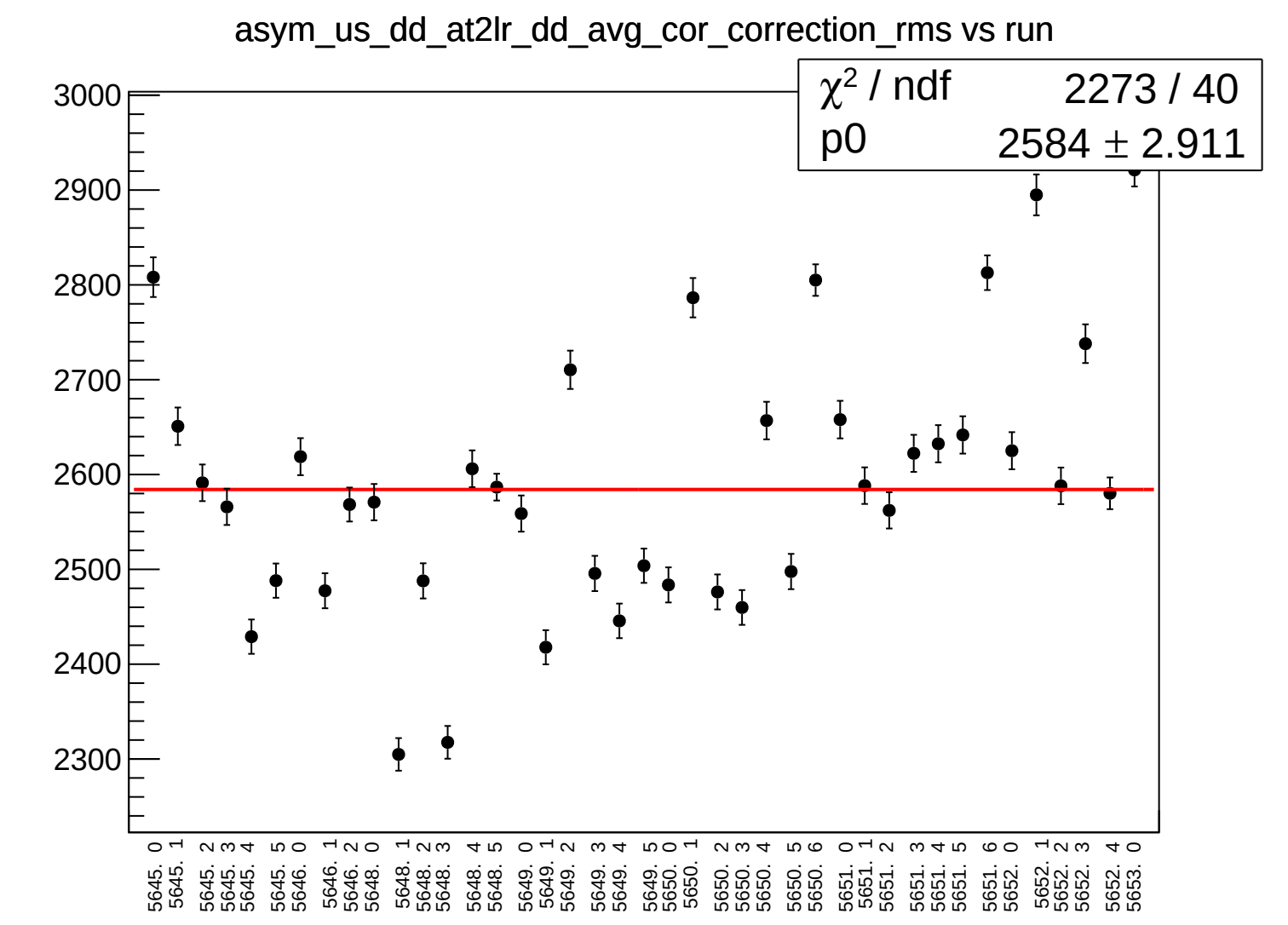

pull1D
Entries 41
Mean 0.002704
Std Dev 1.006

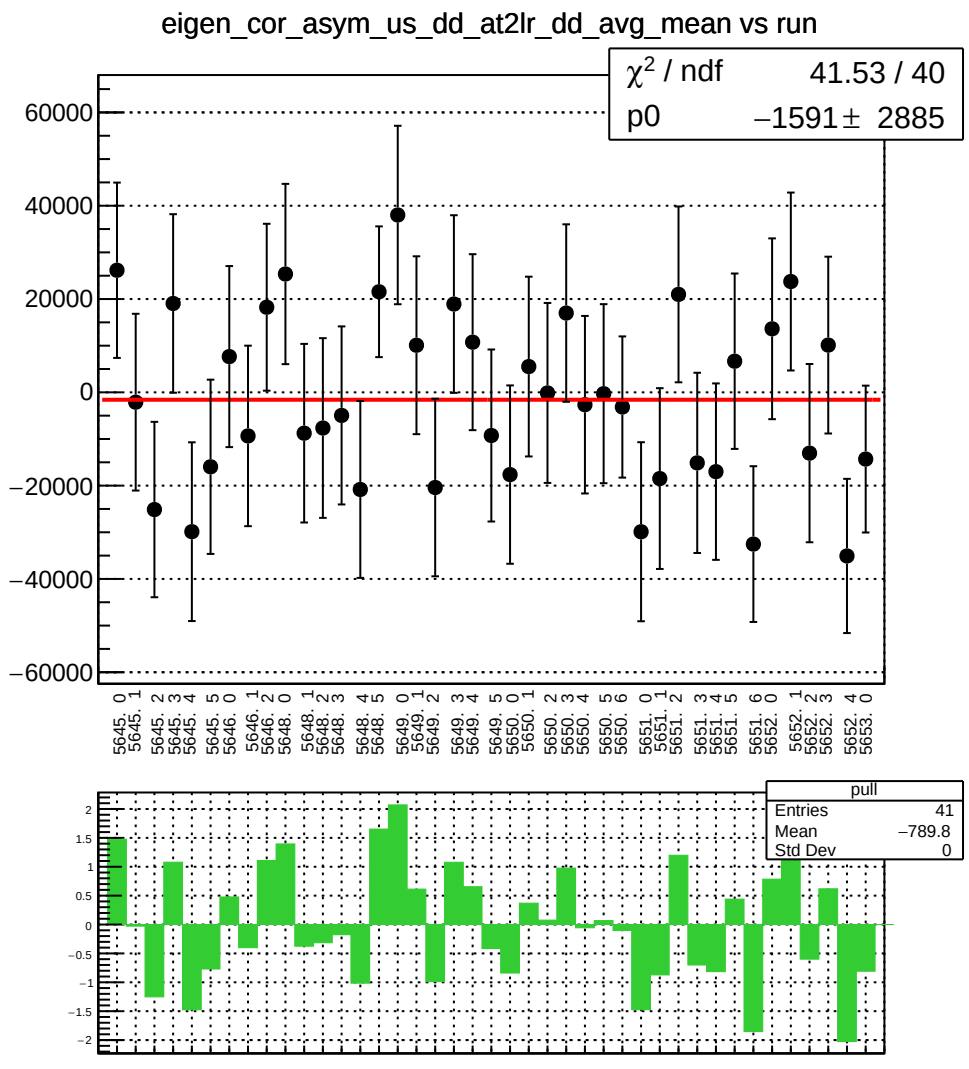

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 76.9 / 40
p0 1813 ± 2.04
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

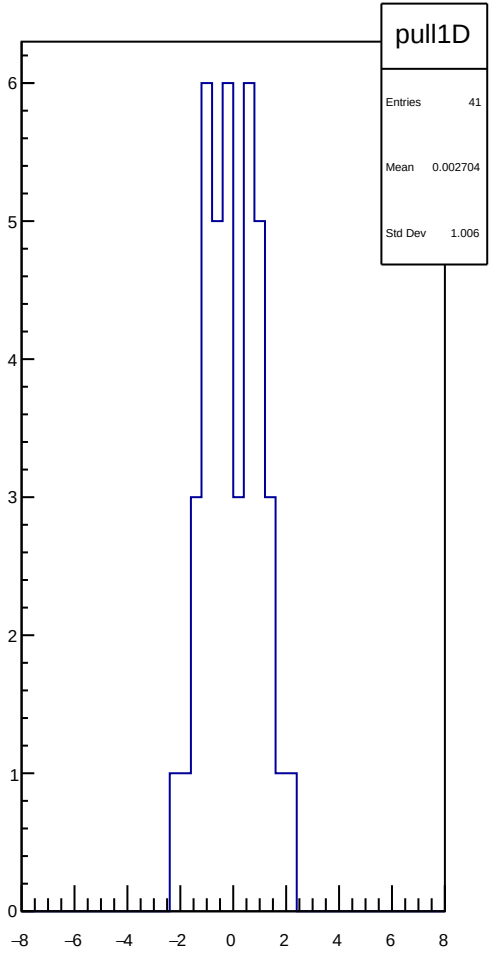

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 42.14 / 40
p0 2970 ± 4117
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

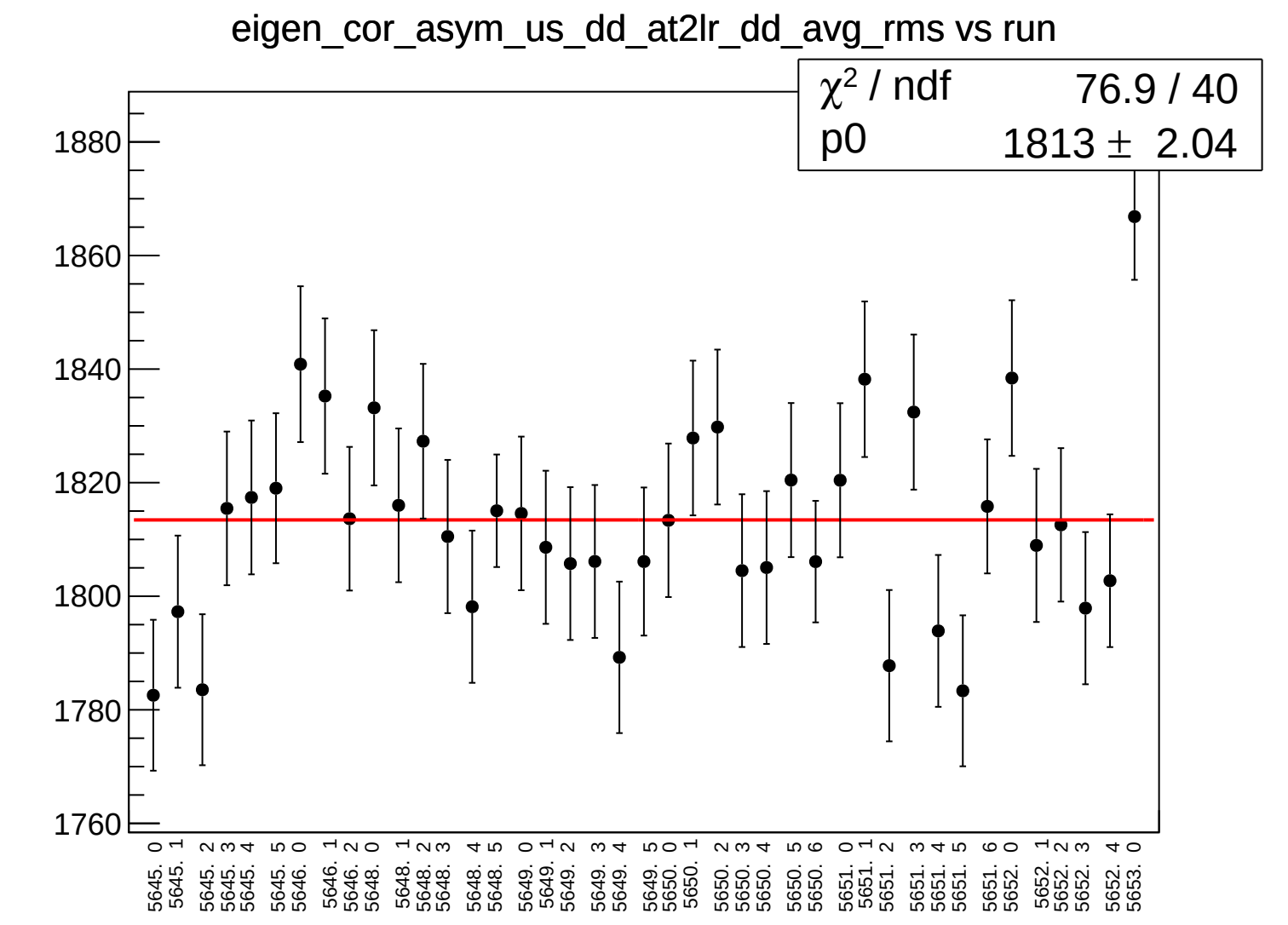

pull
Entries 41
Mean 124.6
Std Dev 0
2
1
0
−1
−2

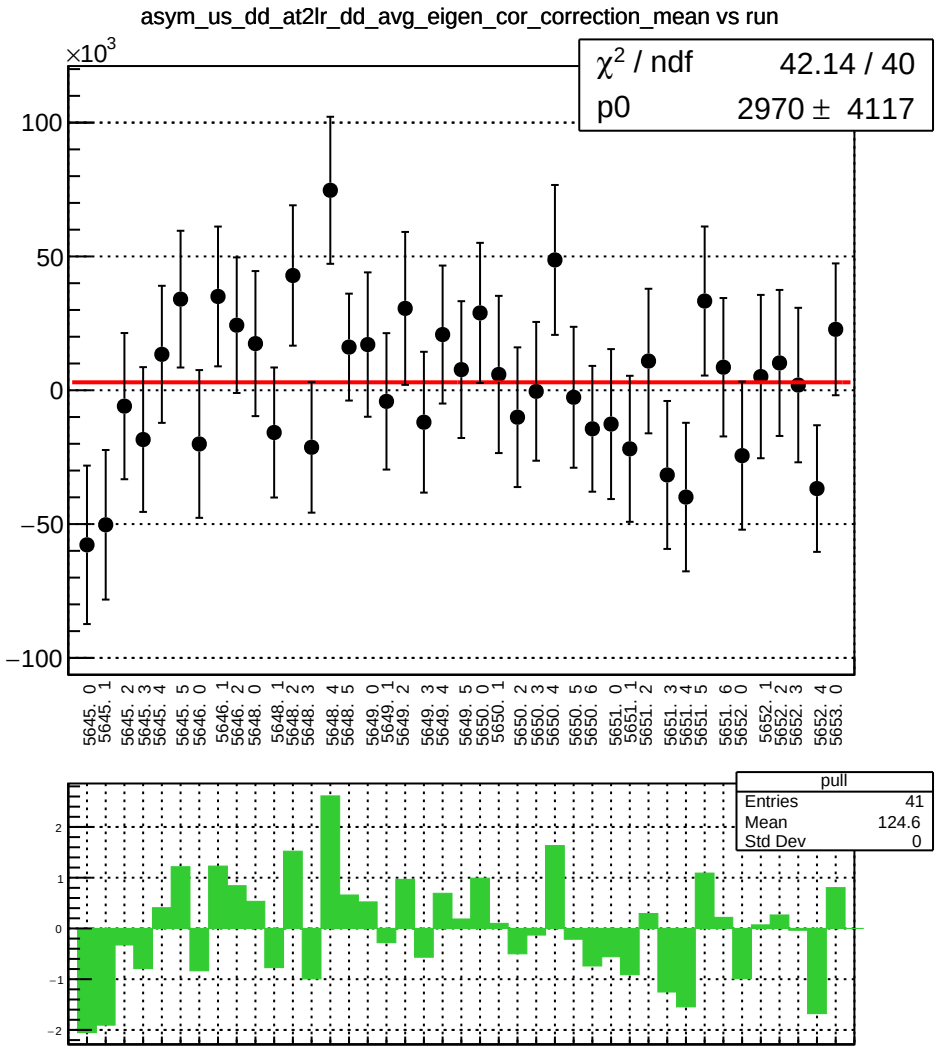

pull1D
Entries 41
Mean −0.005228
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

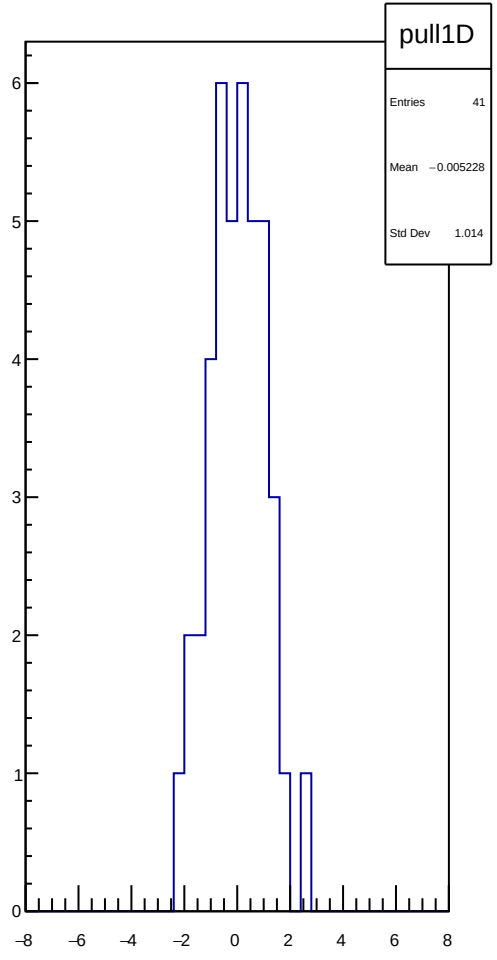

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2273 / 40
p0 2584 ± 2.911
3000
2900
2800
2700
2600
2500
2400
2300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

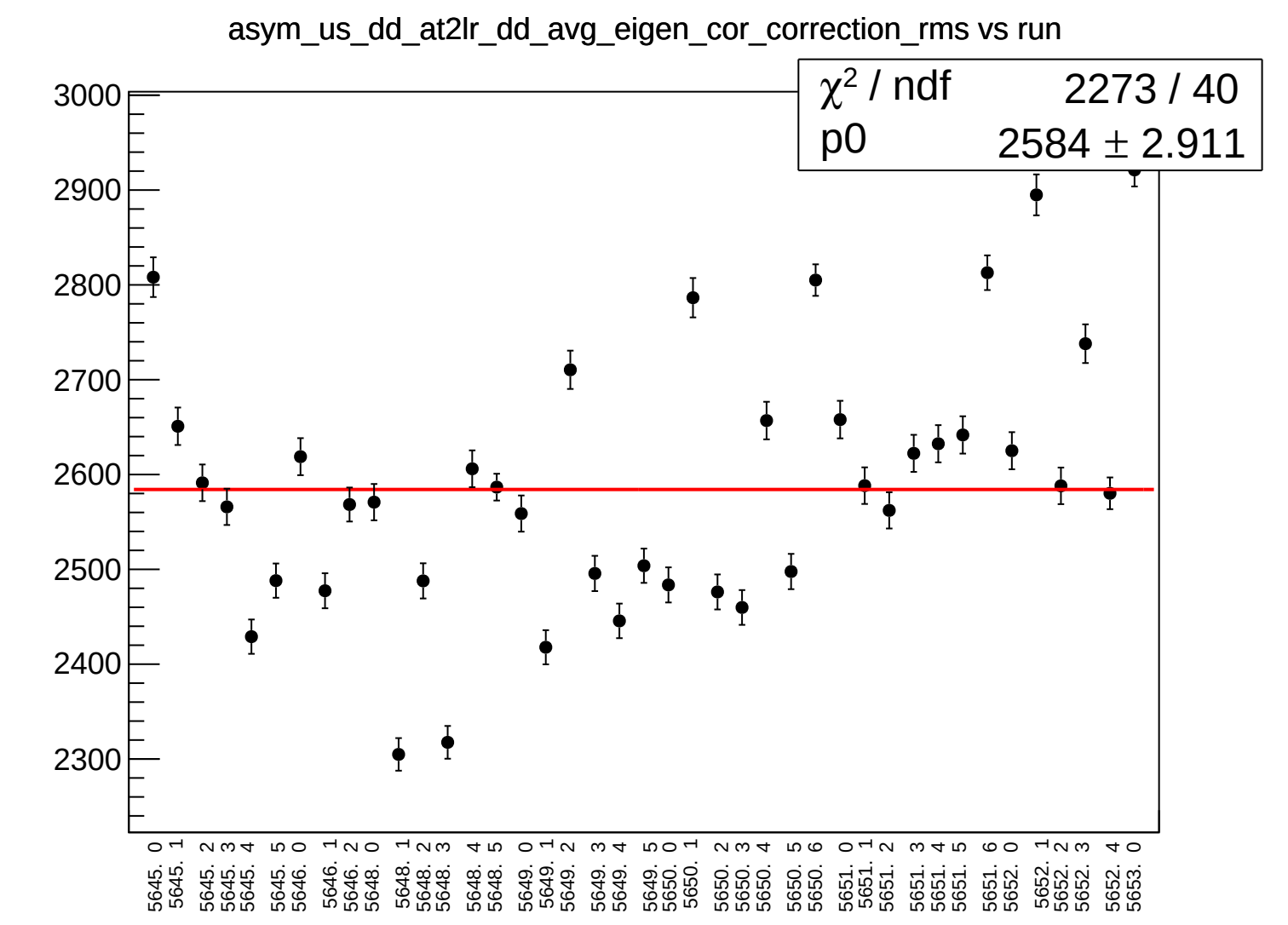

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 41.53 / 40
p0 −1591 ± 2885
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −789.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

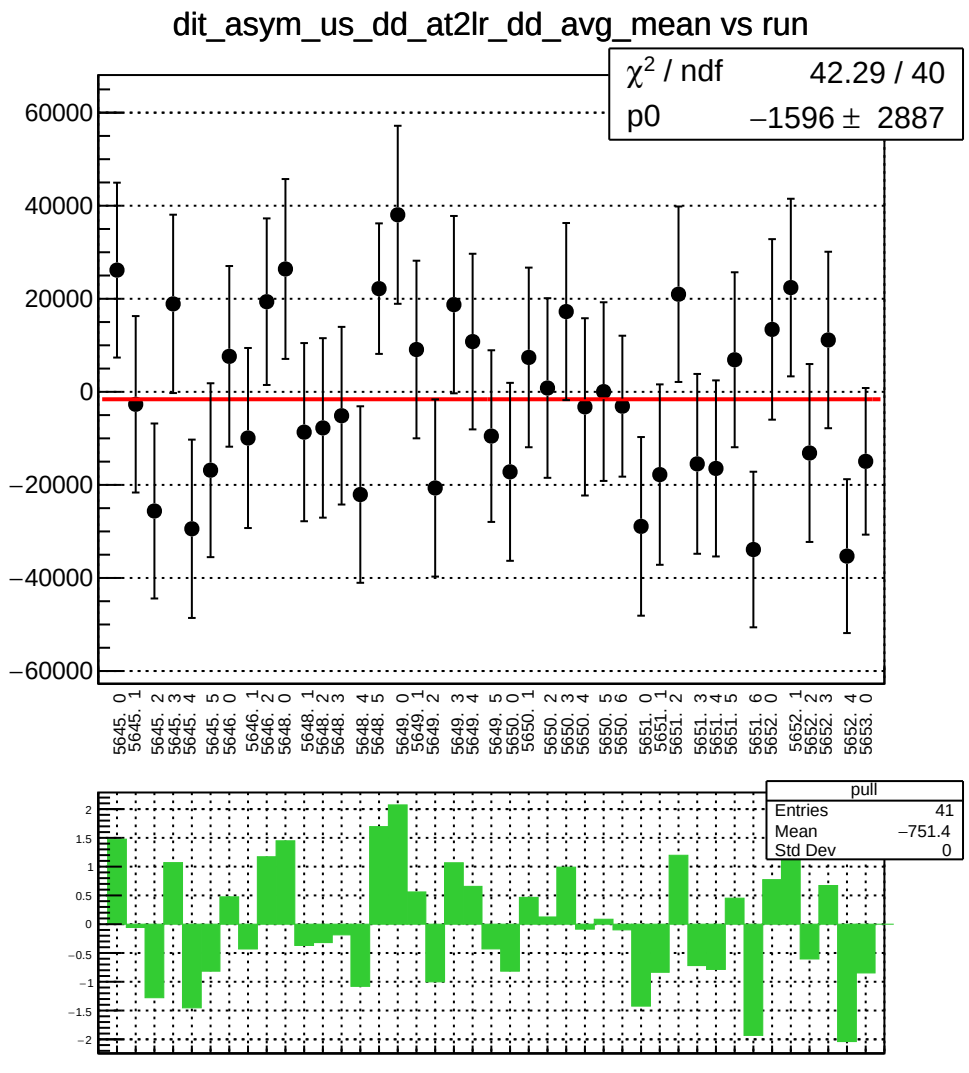

pull1D
Entries 41
Mean 0.002704
Std Dev 1.006
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

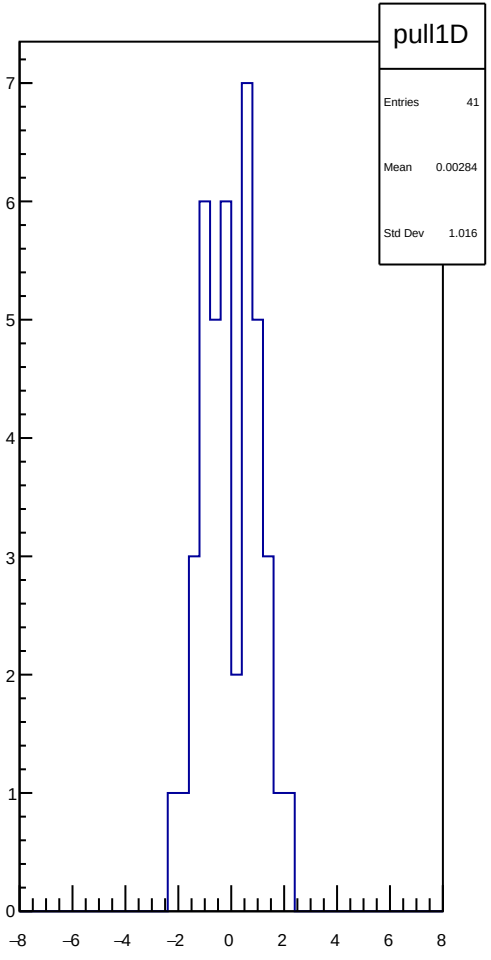

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 76.9 / 40
p0 1813 ± 2.04
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

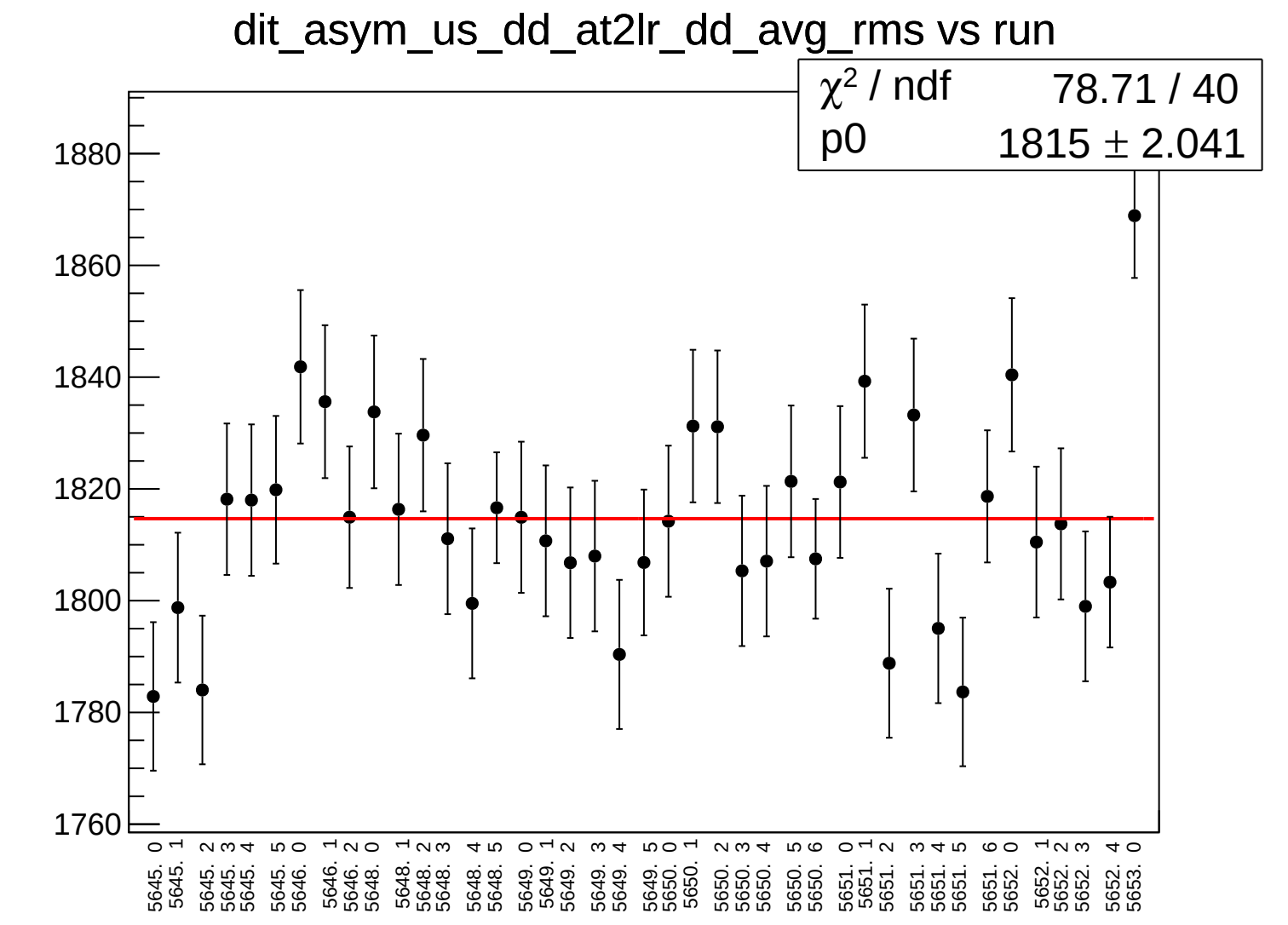

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 42.14 / 40
p0 2970 ± 4117
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 124.6
Std Dev 0
2
1
0
−1
−2

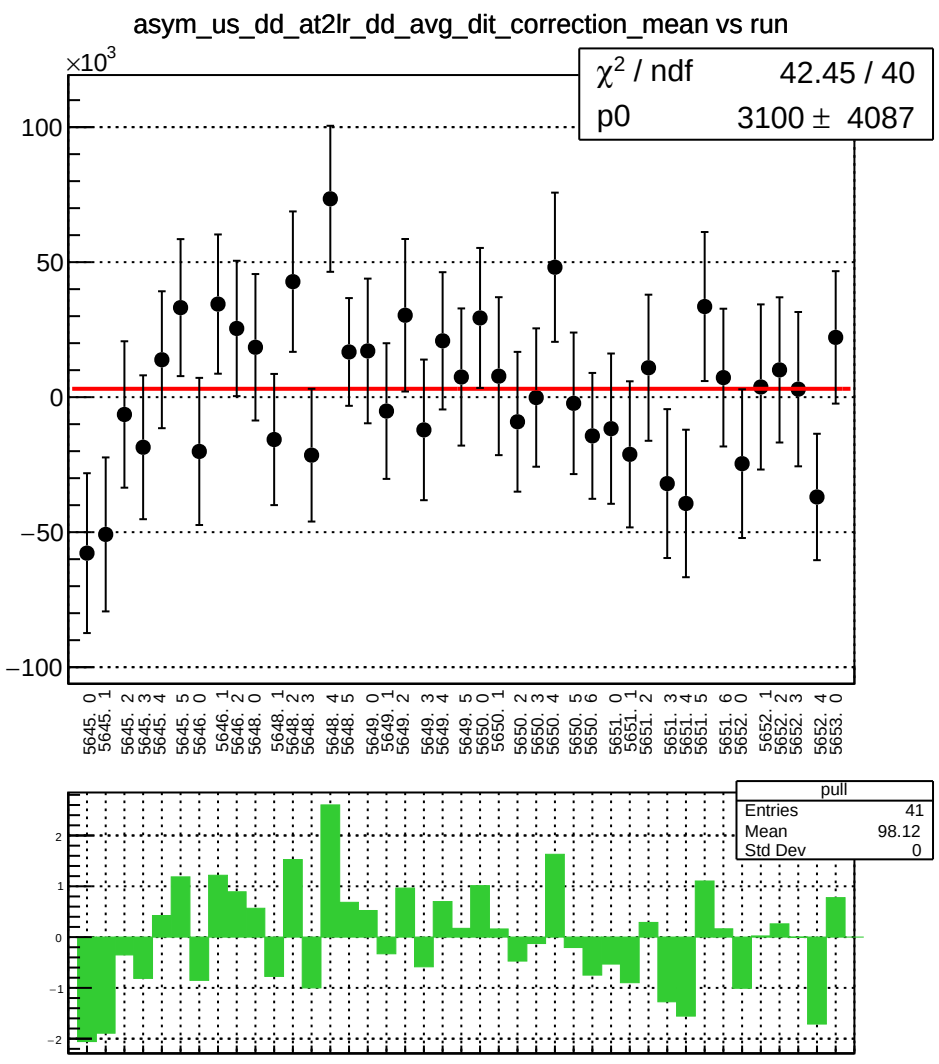

pull1D
Entries 41
Mean −0.005228
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

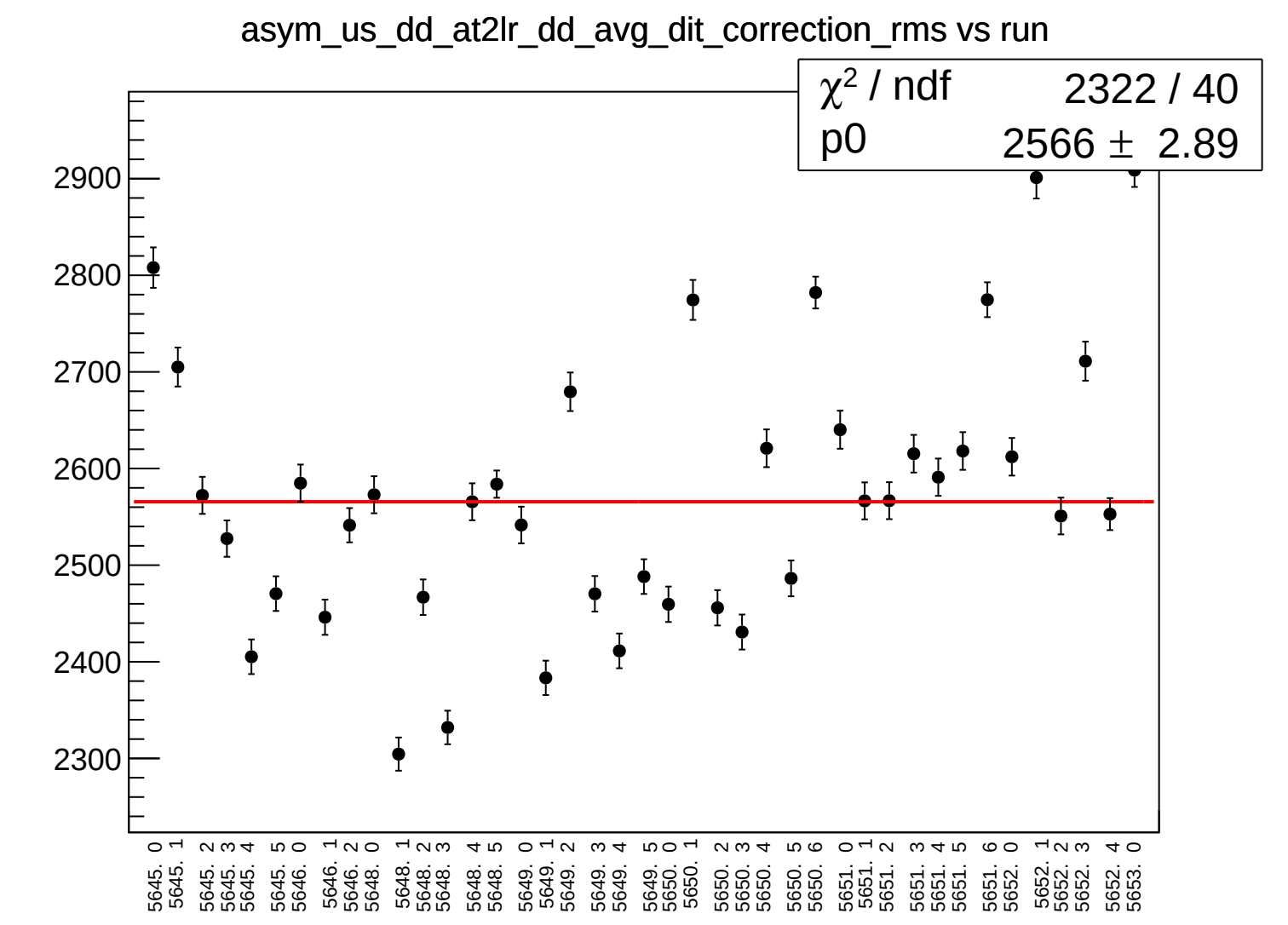

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2273 / 40
p0 2584 ± 2.911
3000
2900
2800
2700
2600
2500
2400
2300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

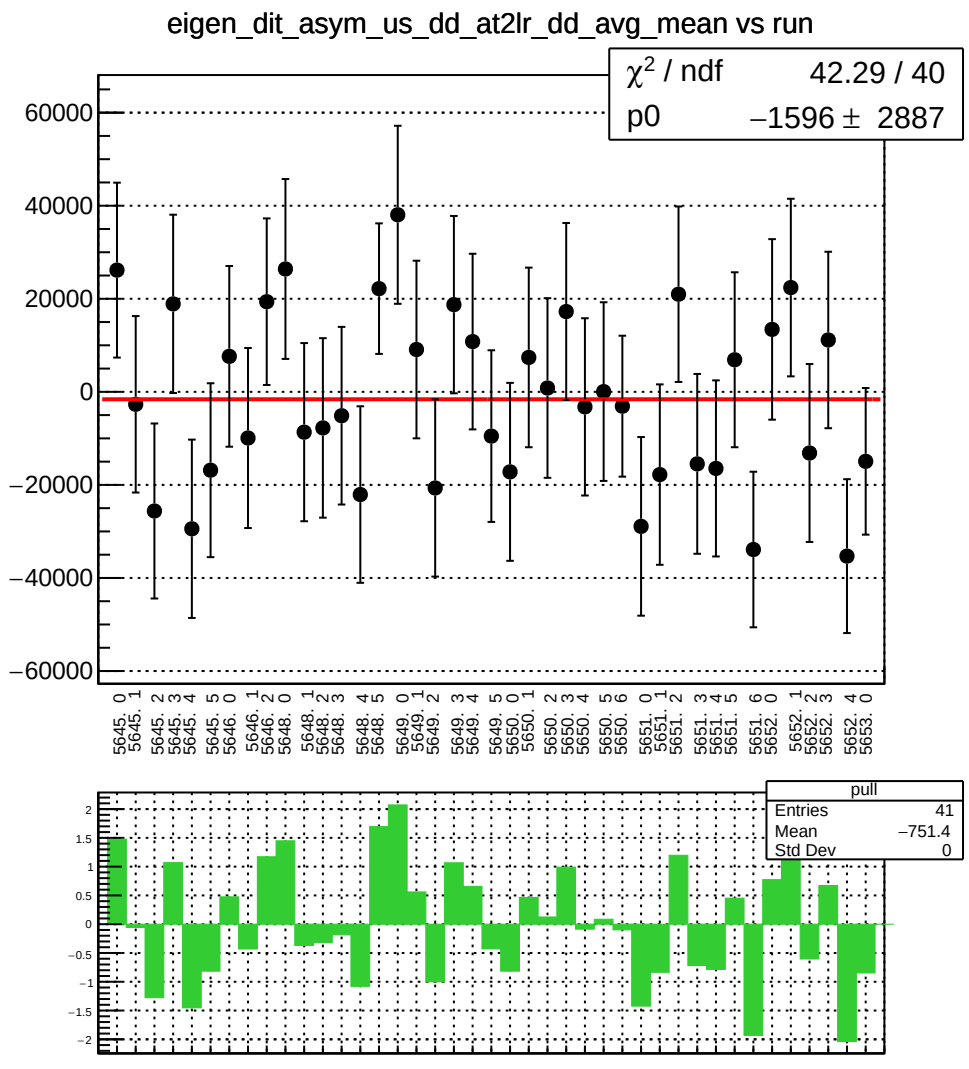

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 42.29 / 40
p0 −1596 ± 2887
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −751.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

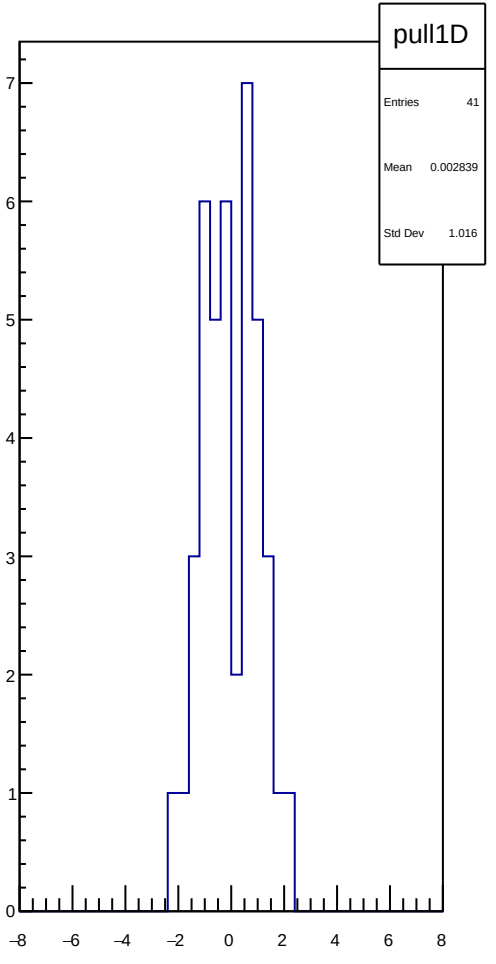

pull1D
Entries 41
Mean 0.00284
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

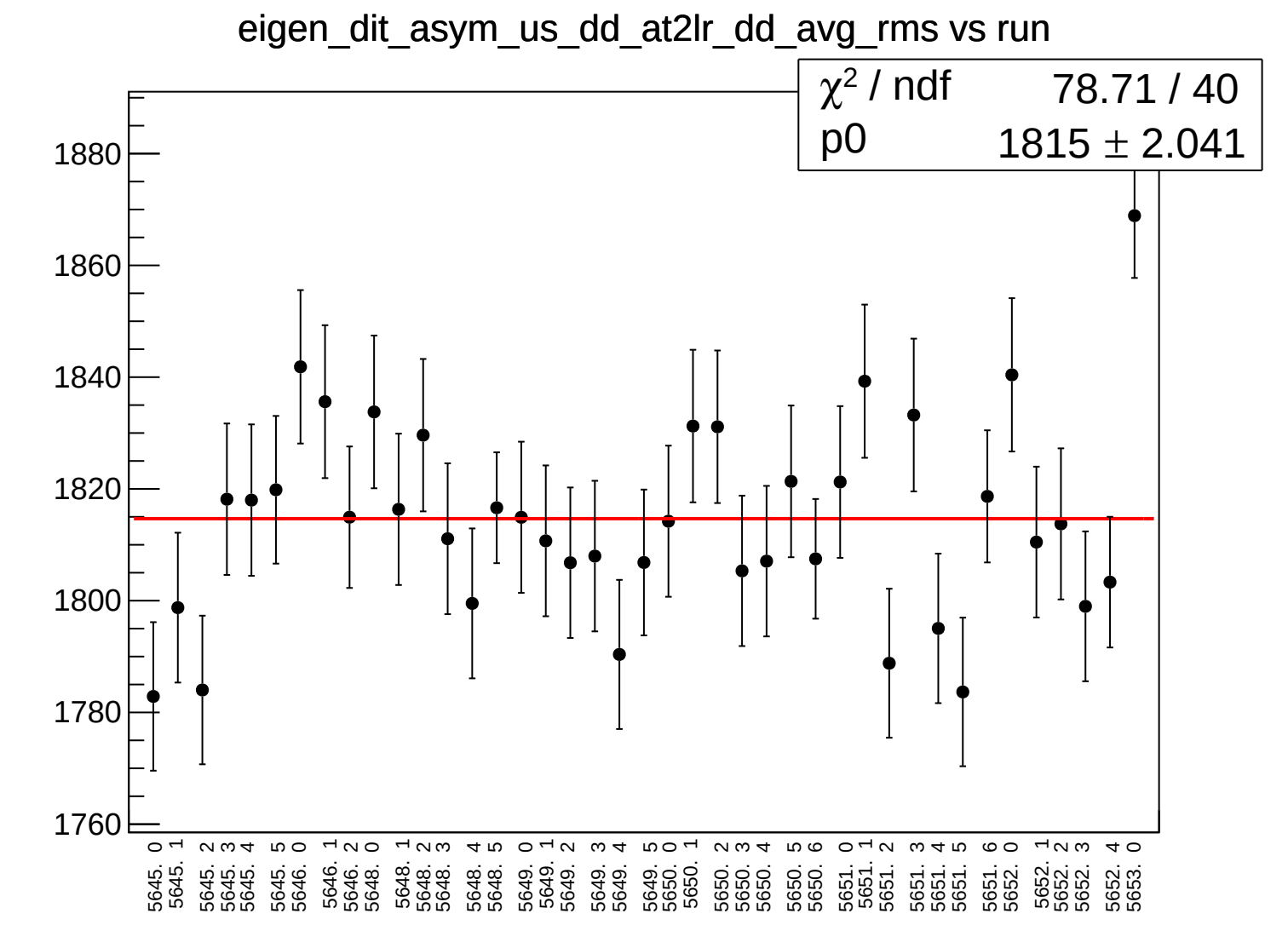

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 78.71 / 40
p0 1815 ± 2.041
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

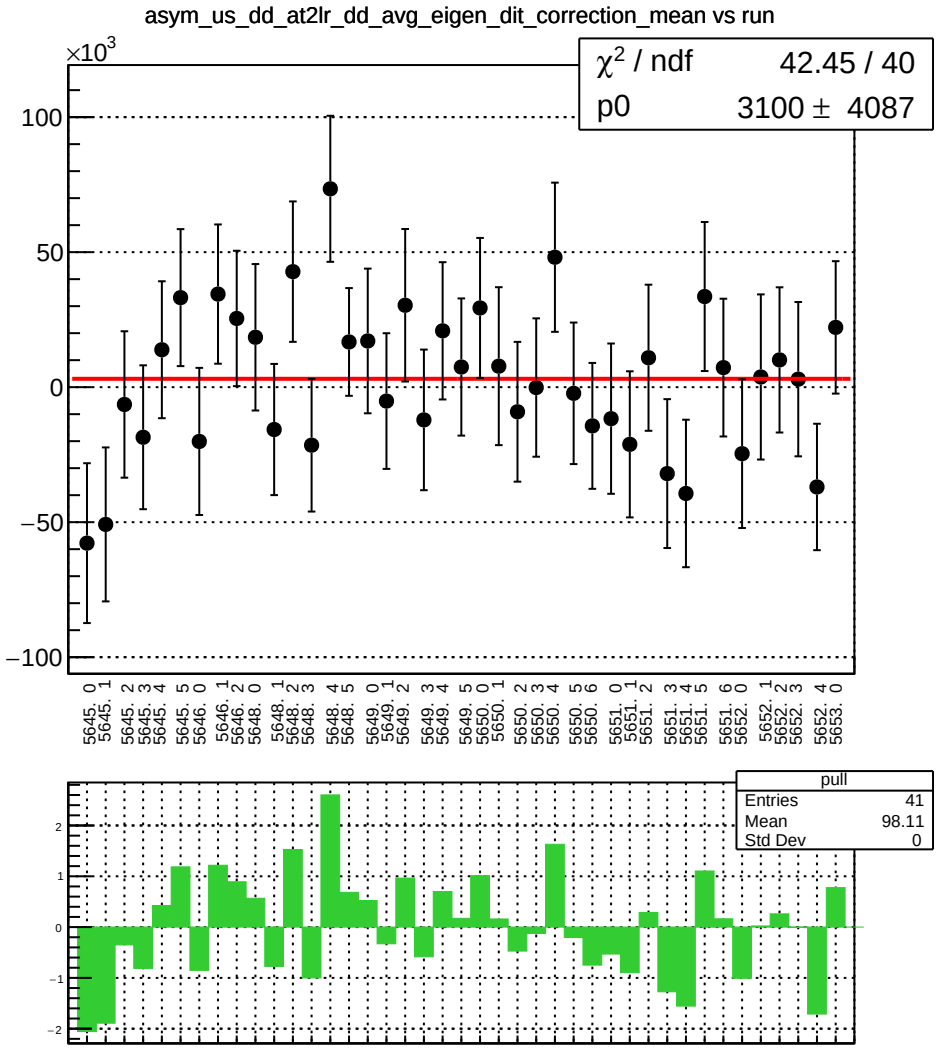

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 42.45 / 40
p0 3100 ± 4087
100
50
0
−50
−100
pull
Entries 41
Mean 98.12
Std Dev 0
pull1D
Entries 41
Mean −0.007554
Std Dev 1.017

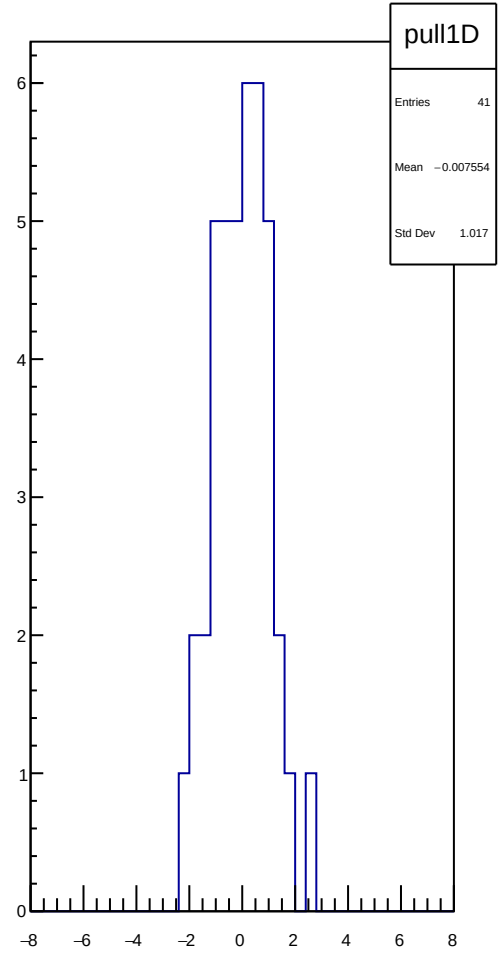

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2322 / 40
p0 2566 ± 2.89
2900
2800
2700
2600
2500
2400
2300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

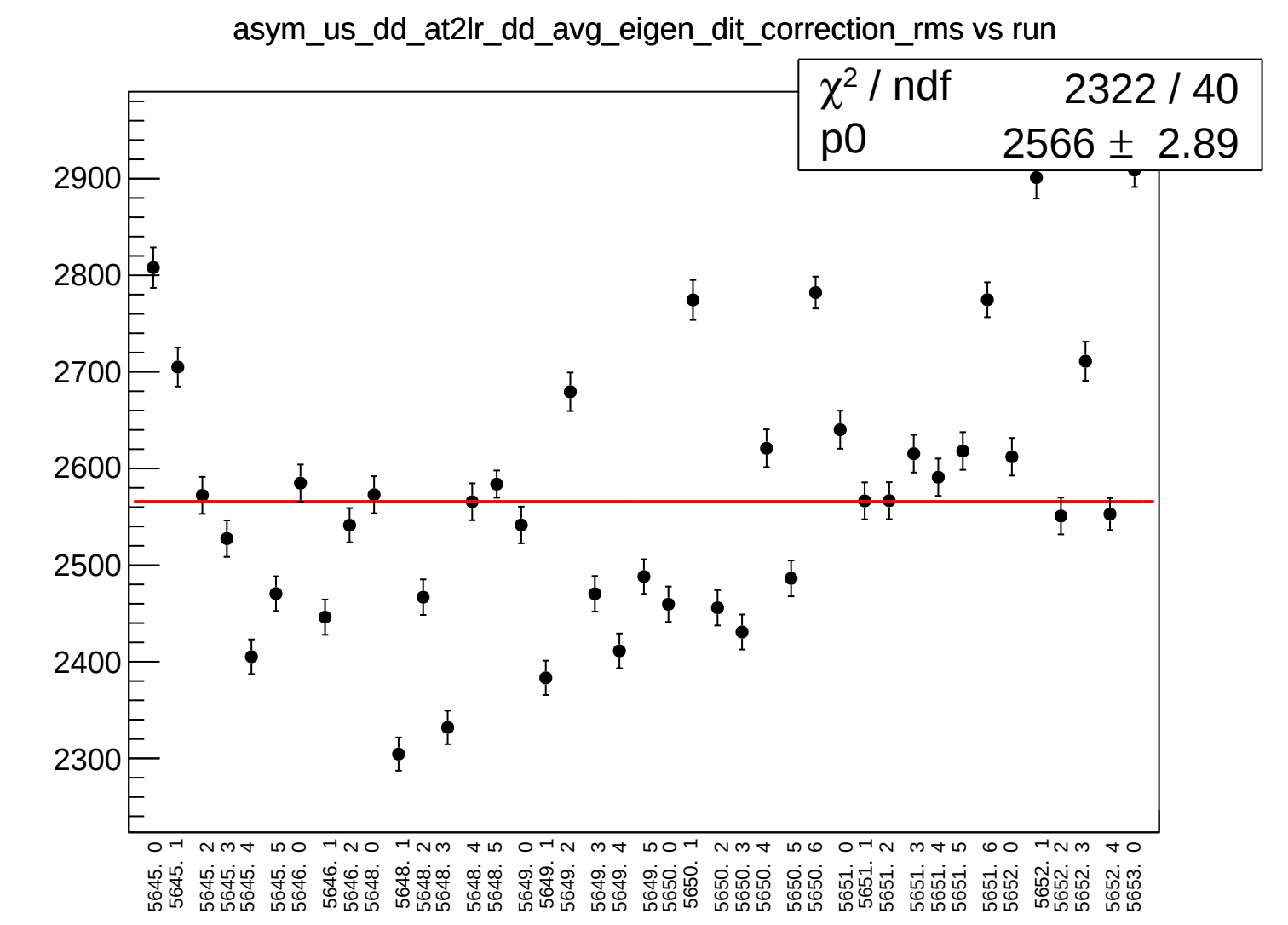

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 42.29 / 40
p0 −1596 ± 2887
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −751.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

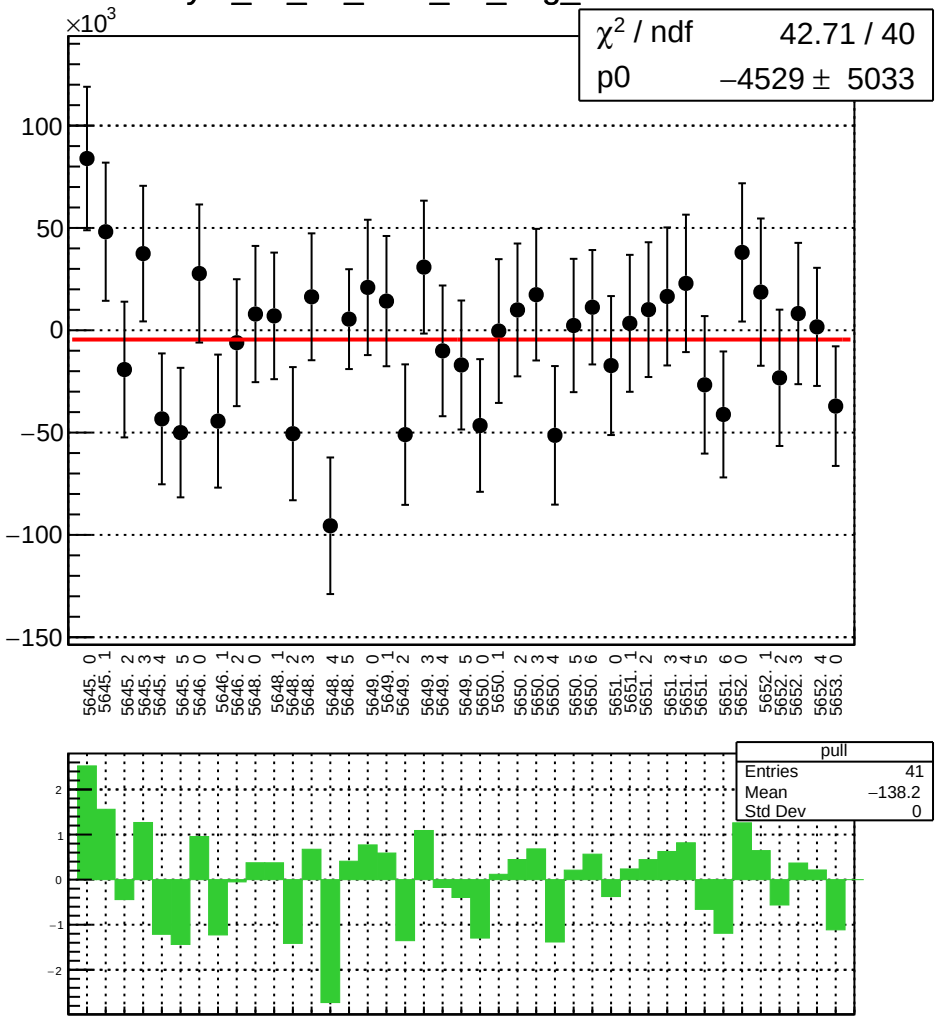

pull1D
Entries 41
Mean 0.002839
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

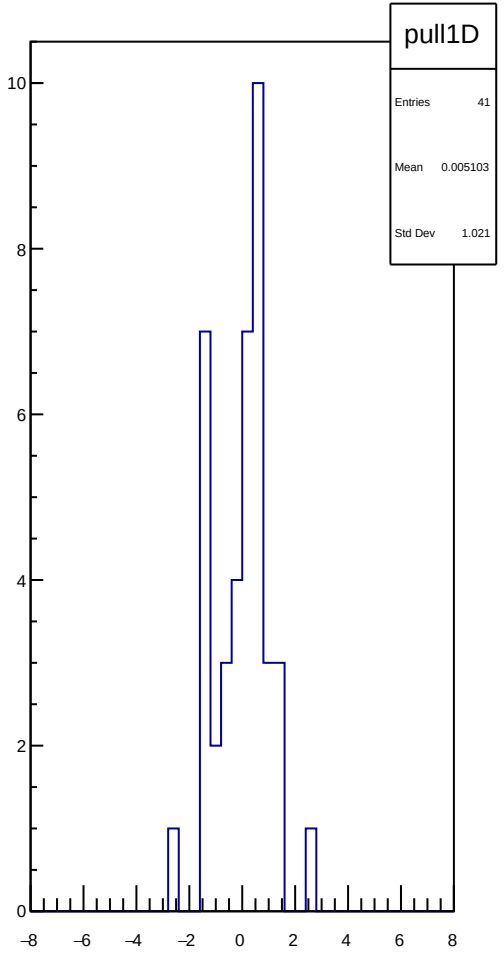

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 78.71 / 40
p0 1815 ± 2.041
1880
1860
1840
1820
1800
1780
1760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

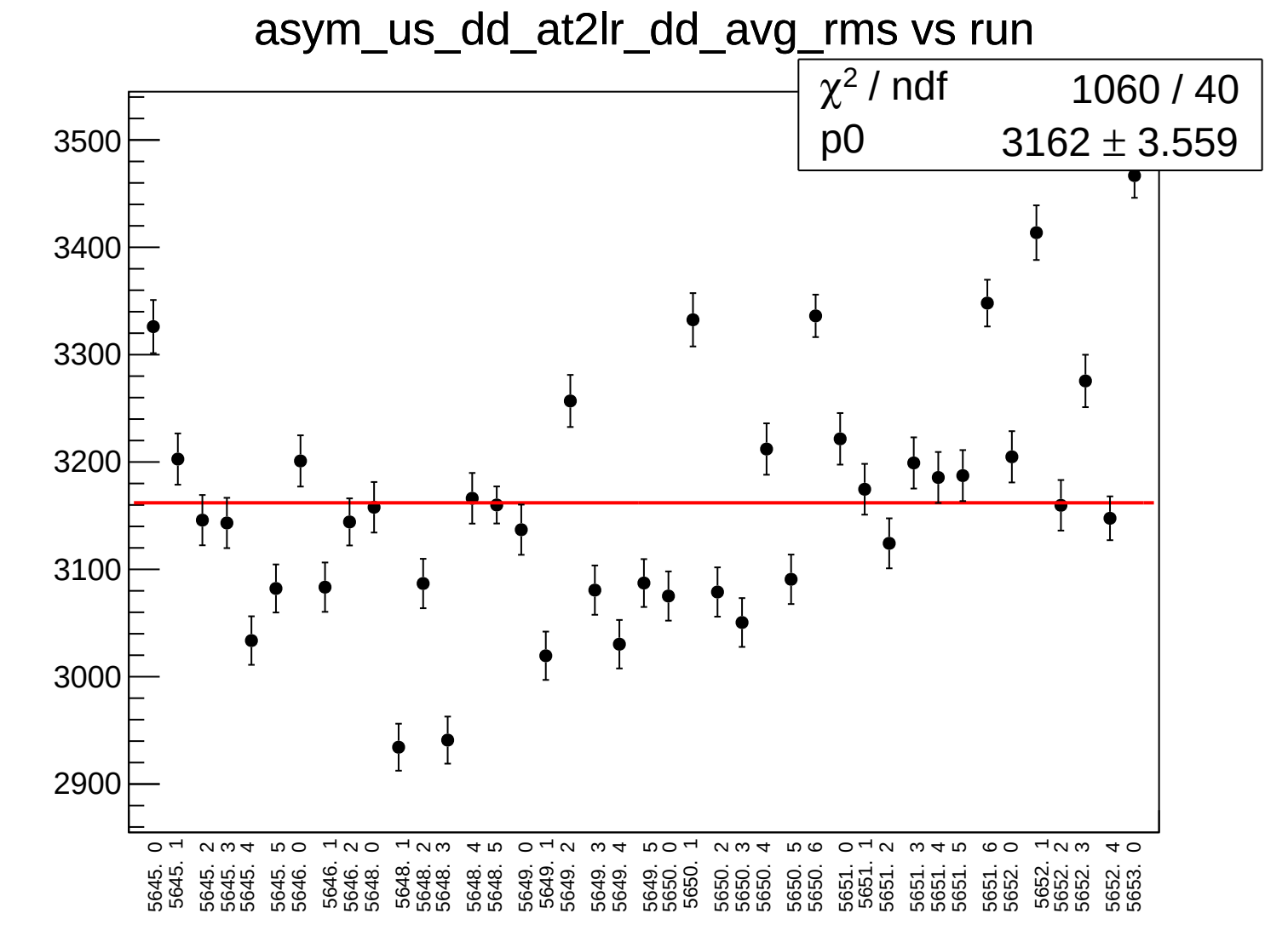

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 42.45 / 40
p0 3100 ± 4087
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 98.11
Std Dev 0
2
1
0
−1
−2

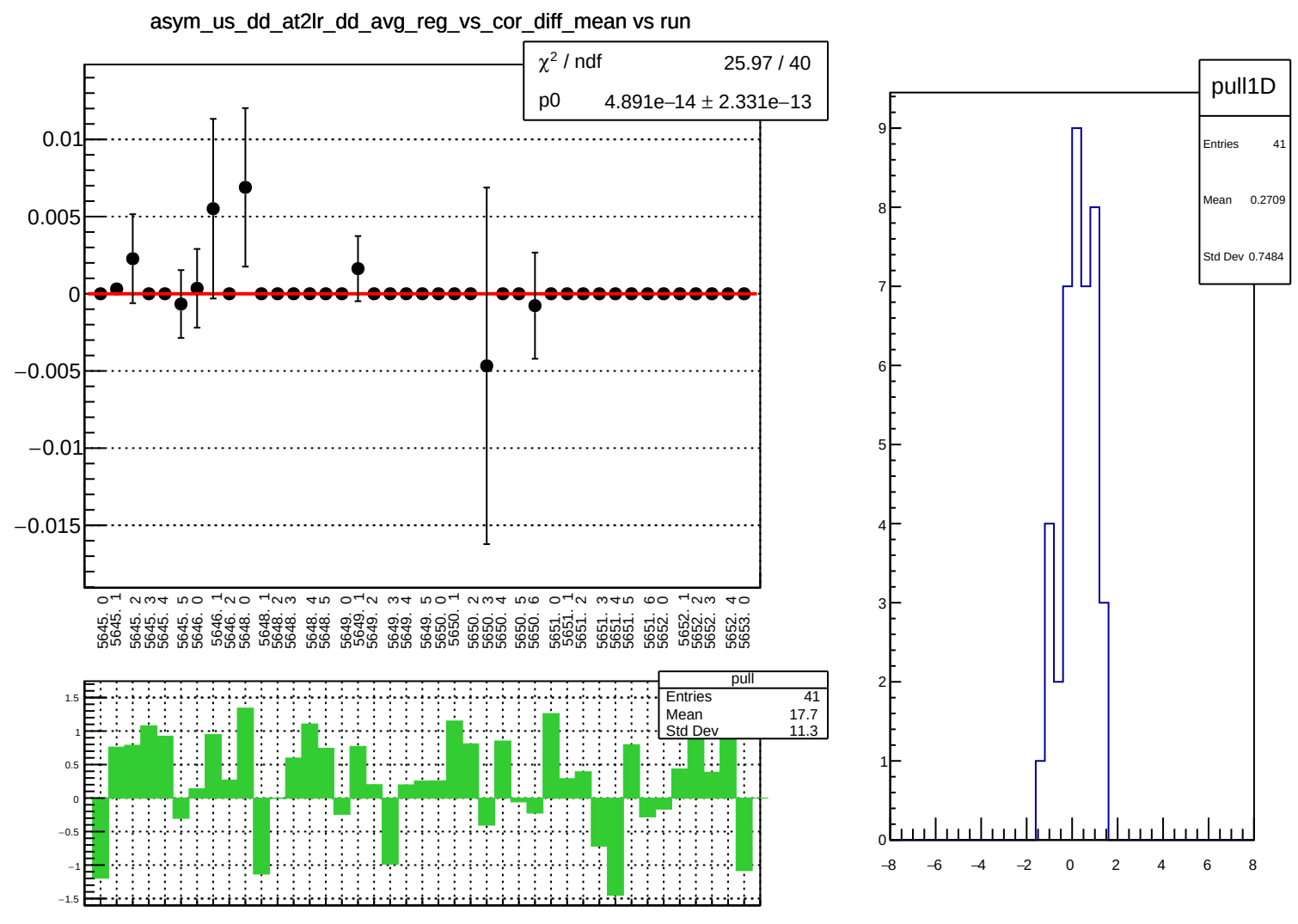

pull1D
Entries 41
Mean −0.007554
Std Dev 1.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

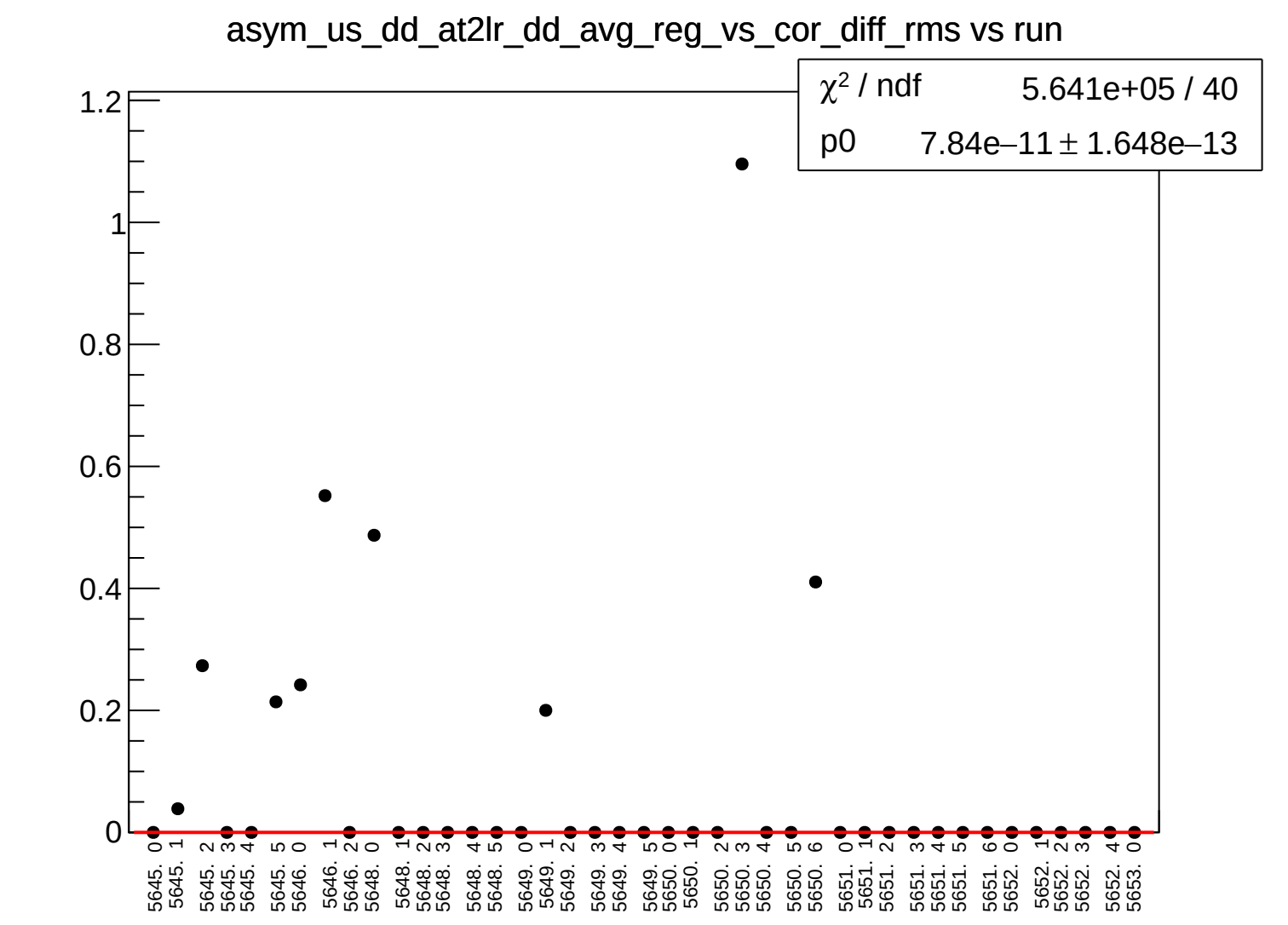

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2322 / 40
p0 2566 ± 2.89
2900
2800
2700
2600
2500
2400
2300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

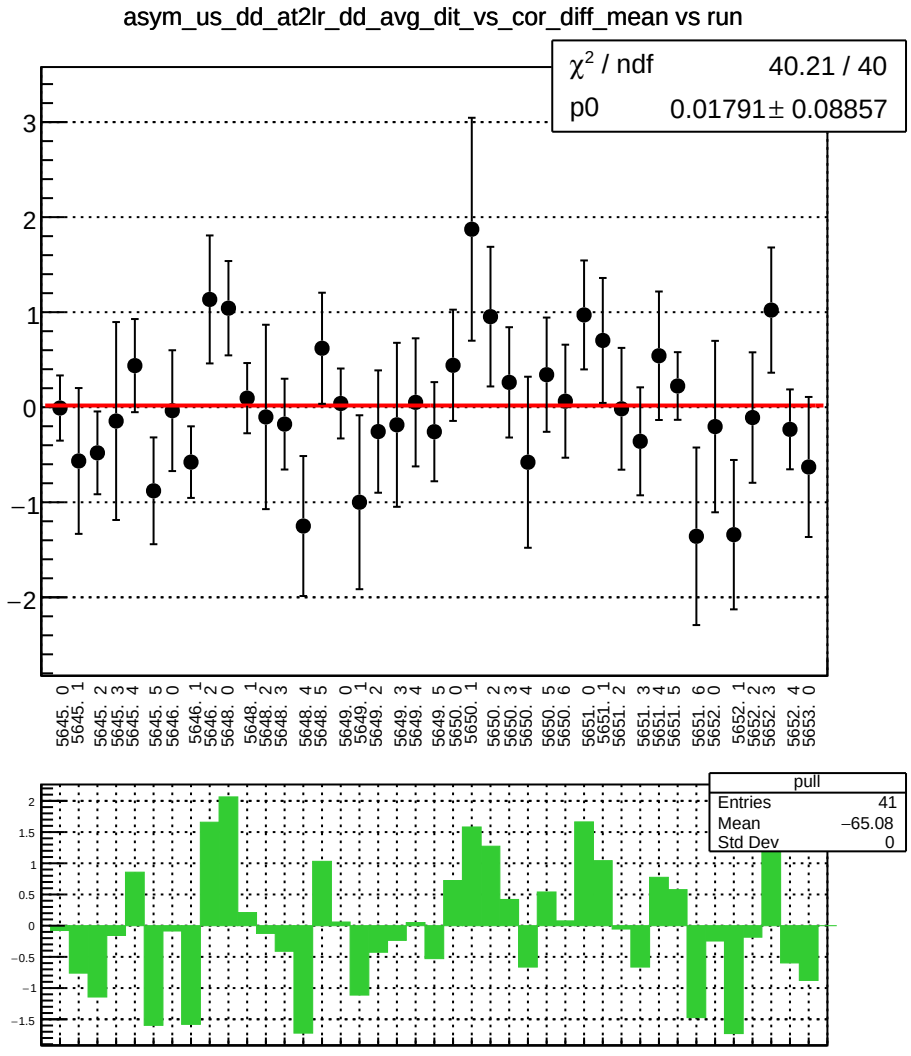

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 42.71 / 40
p0 −4529 ± 5033
100
50
0
−50
−100
−150
pull
Entries 41
Mean −138.2
Std Dev 0
2
1
0
−1
−2

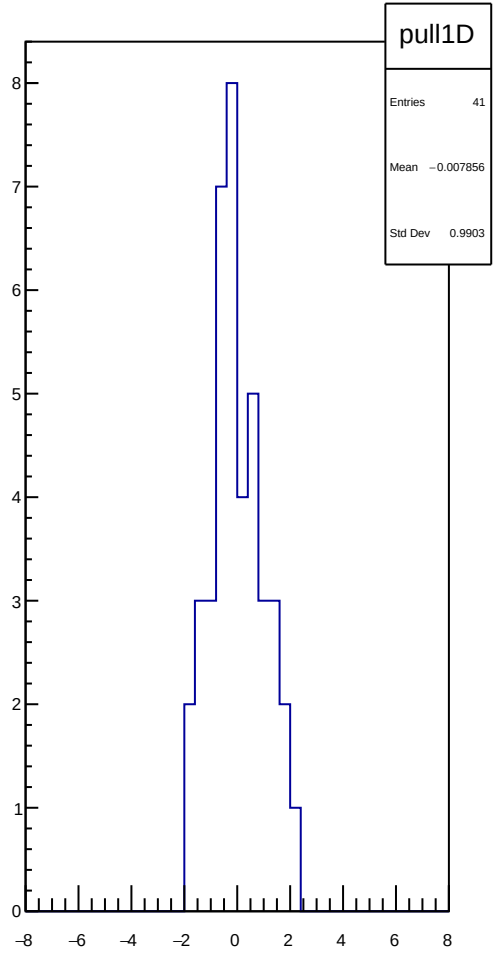

pull1D
Entries 41
Mean 0.005103
Std Dev 1.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

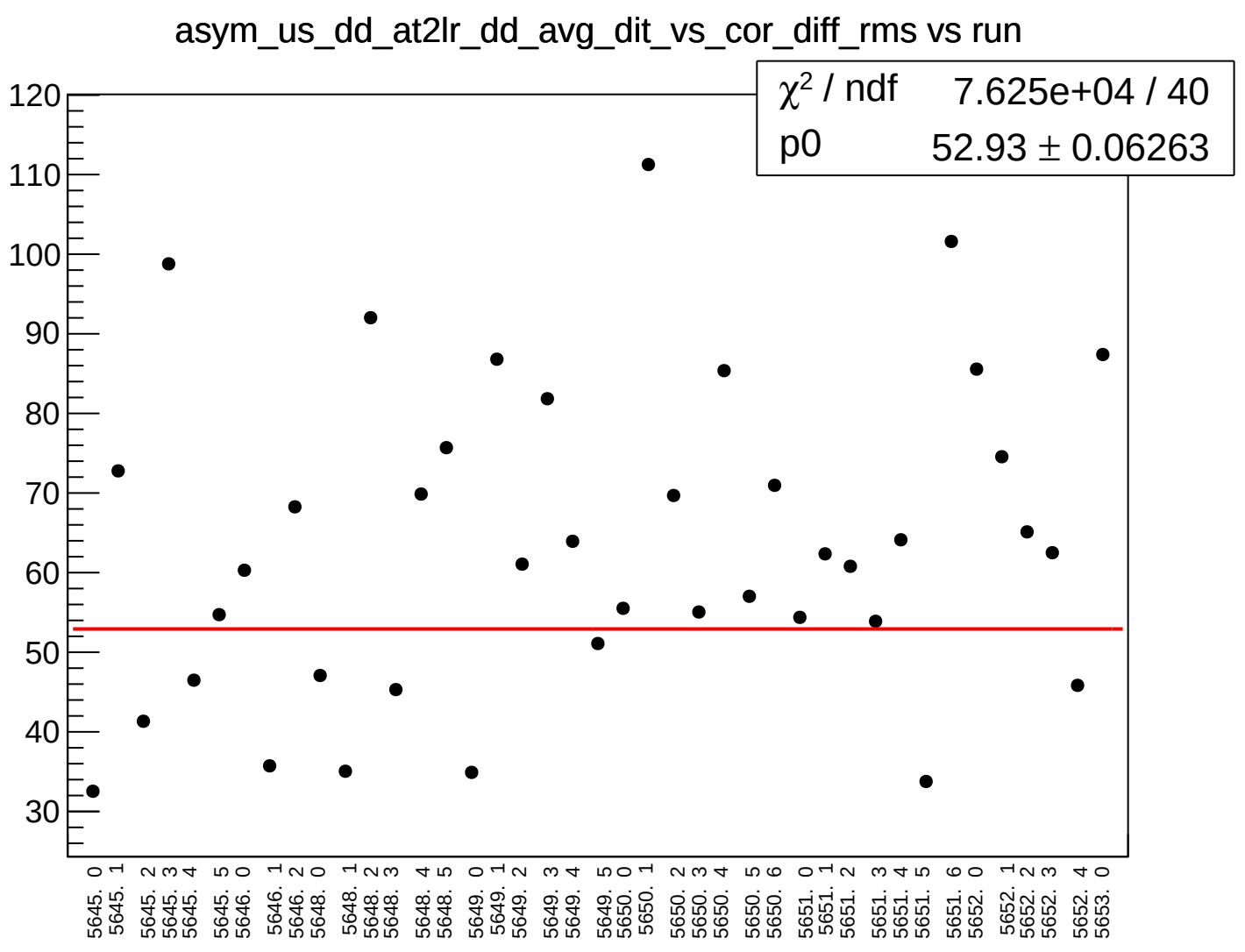

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1060 / 40
p0 3162 ± 3.559
3500
3400
3300
3200
3100
3000
2900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

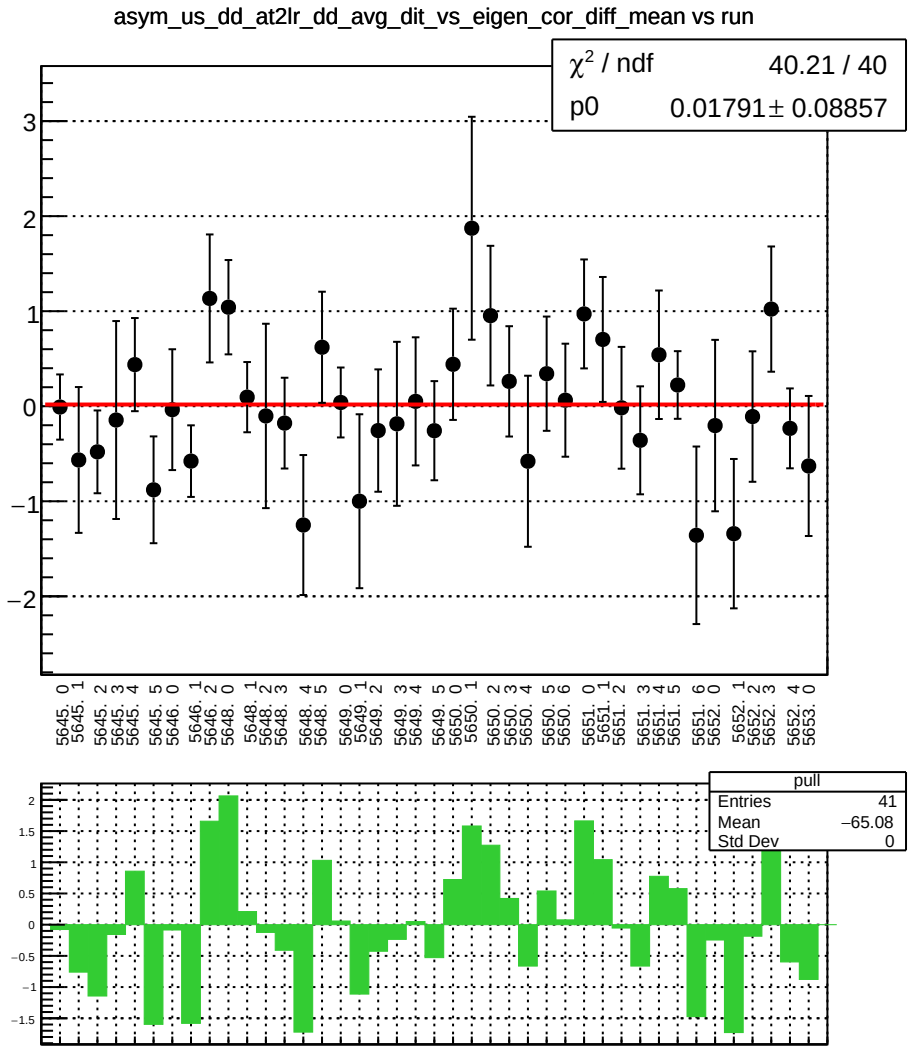

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.97 / 40
p0 4.891e−14 ± 2.331e−13
0.01
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.7
Std Dev 11.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.2709
Std Dev 0.7484
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

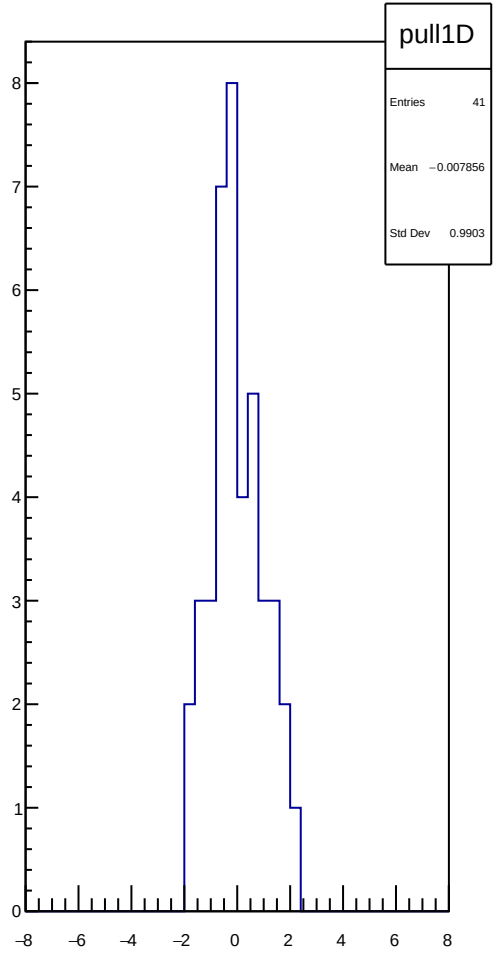

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.641e+05 / 40
p0 7.84e−11 ± 1.648e−13
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

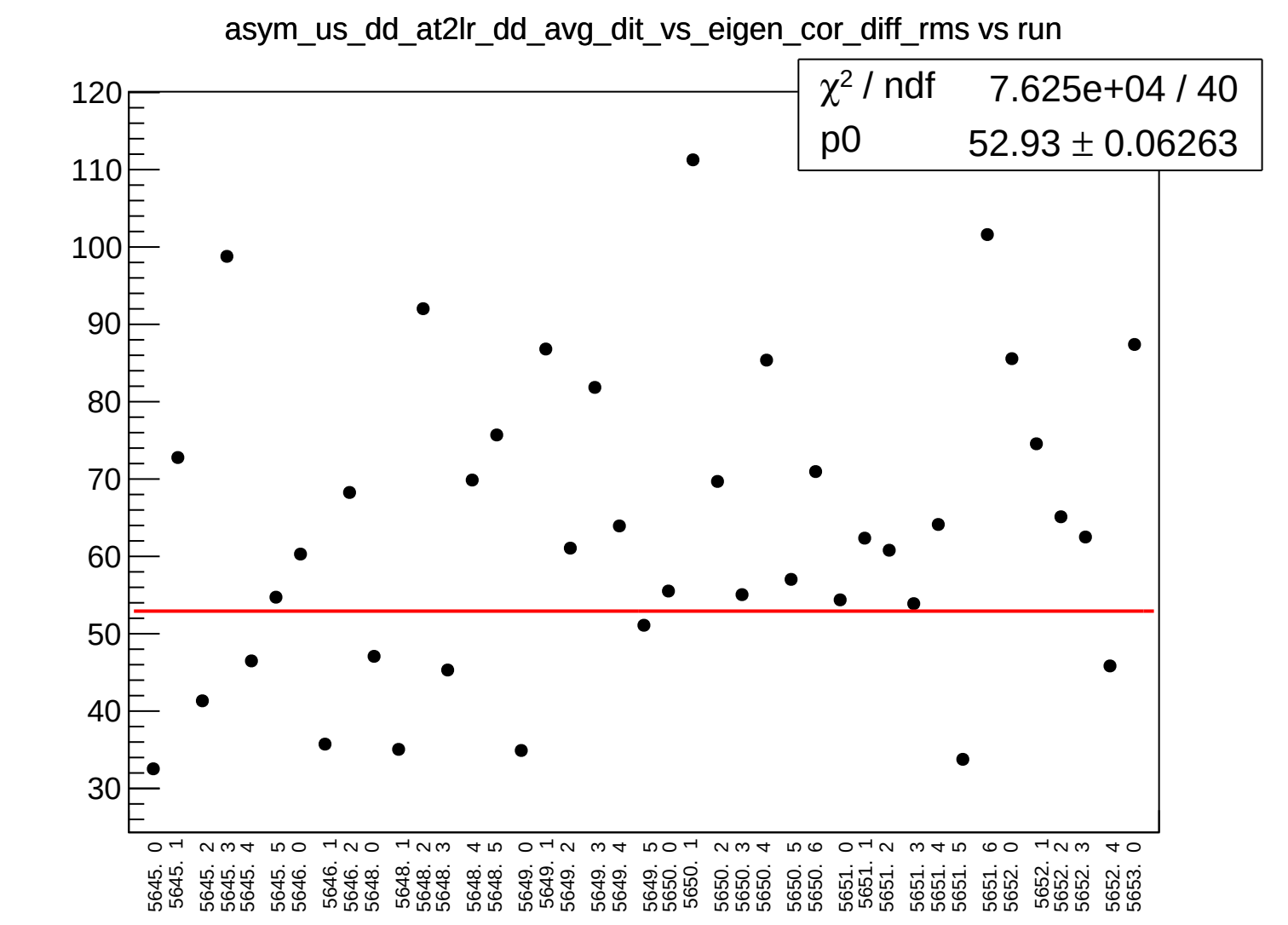

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 40.21 / 40
p0 0.01791 ± 0.08857
pull
Entries 41
Mean −65.08
Std Dev 0

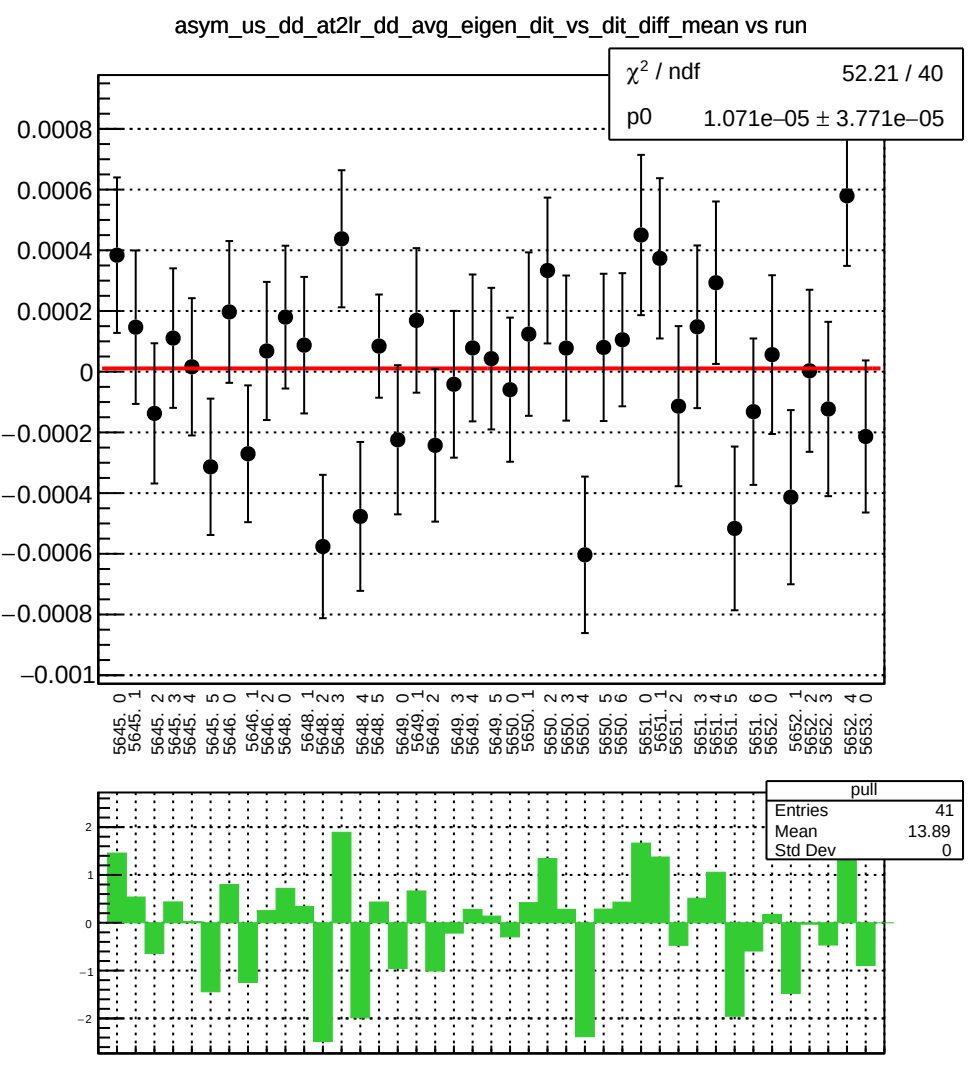

pull1D
Entries 41
Mean −0.007856
Std Dev 0.9903

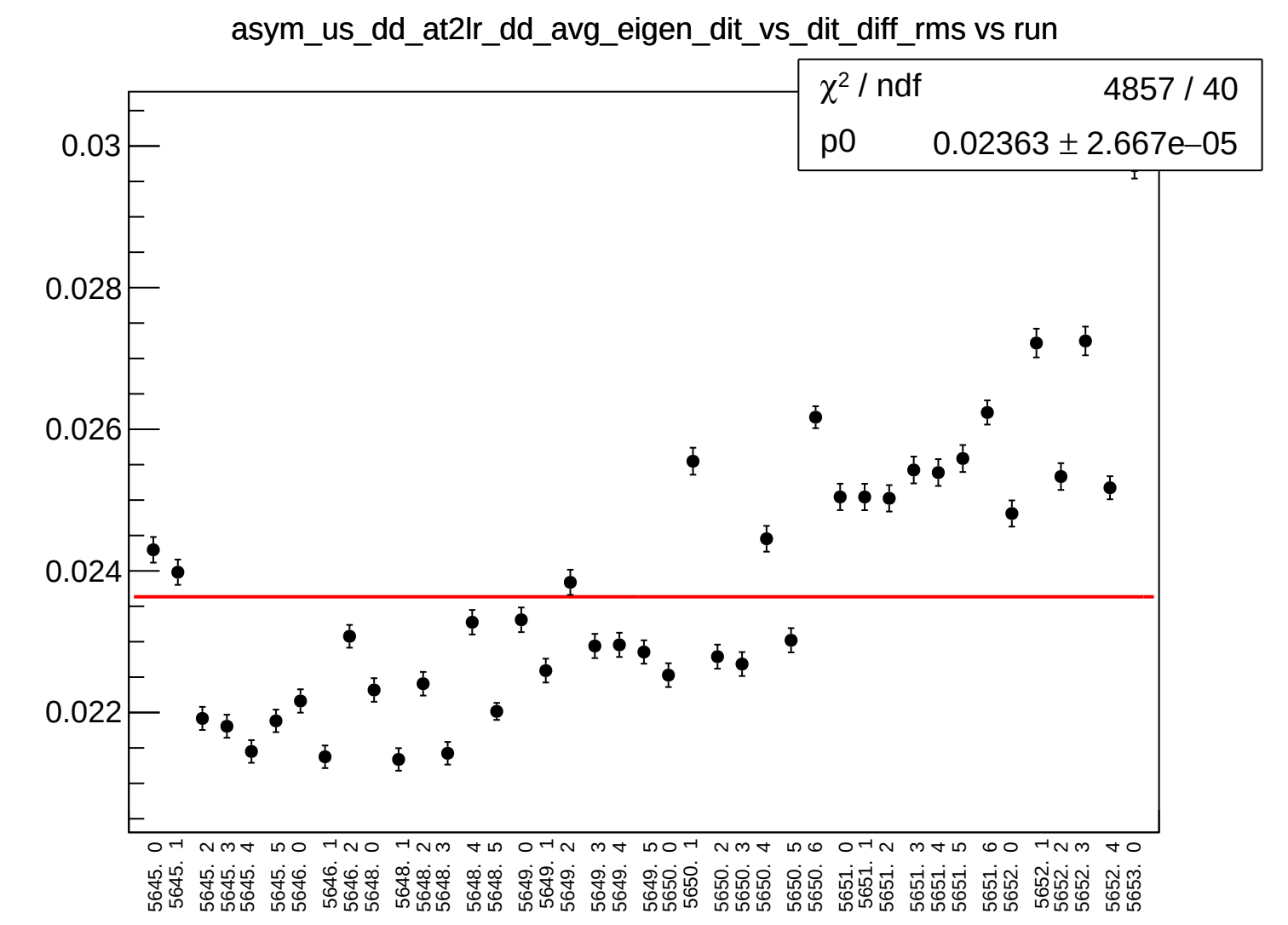

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.625e+04 / 40
p0 52.93 ± 0.06263
120
110
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

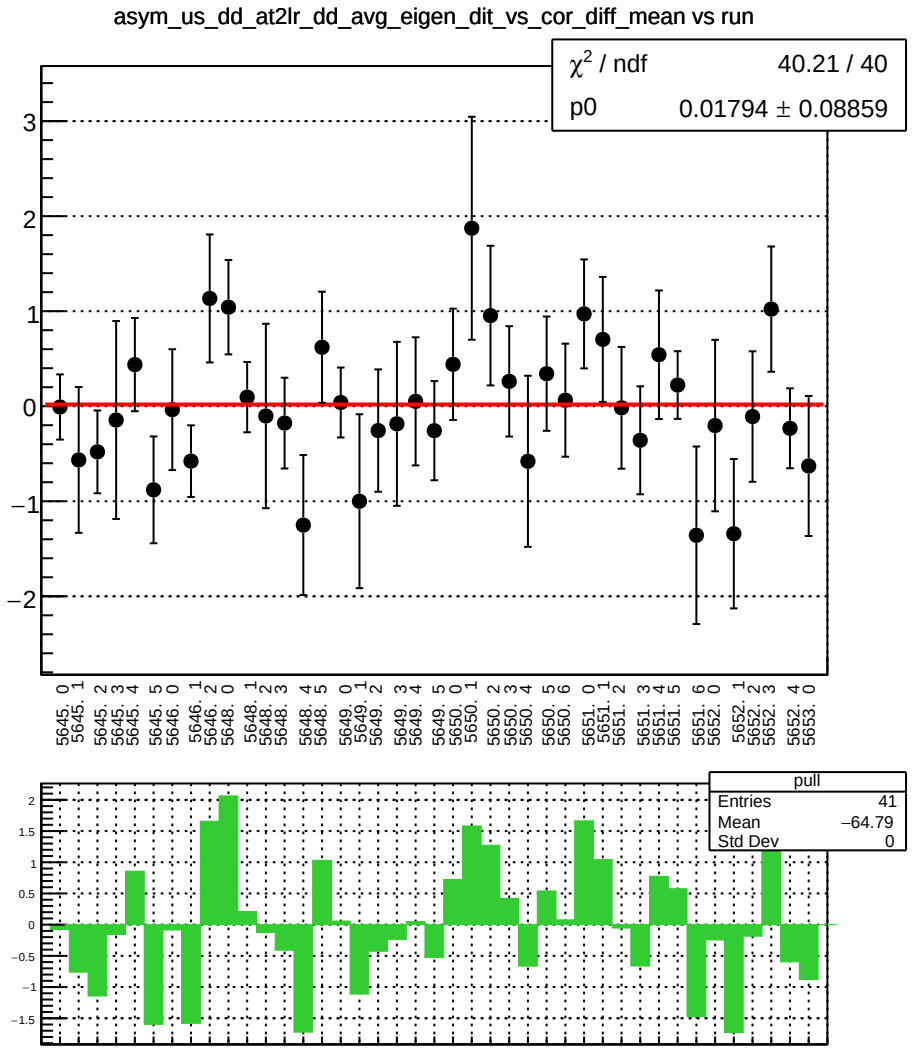

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.21 / 40
p0 0.01791 ± 0.08857
pull
Entries 41
Mean −65.08
Std Dev 0

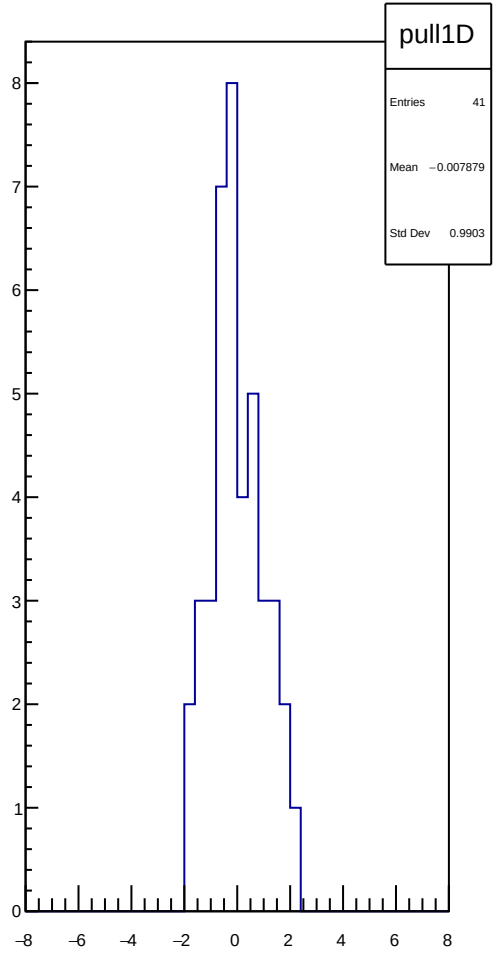

pull1D
Entries 41
Mean −0.007856
Std Dev 0.9903

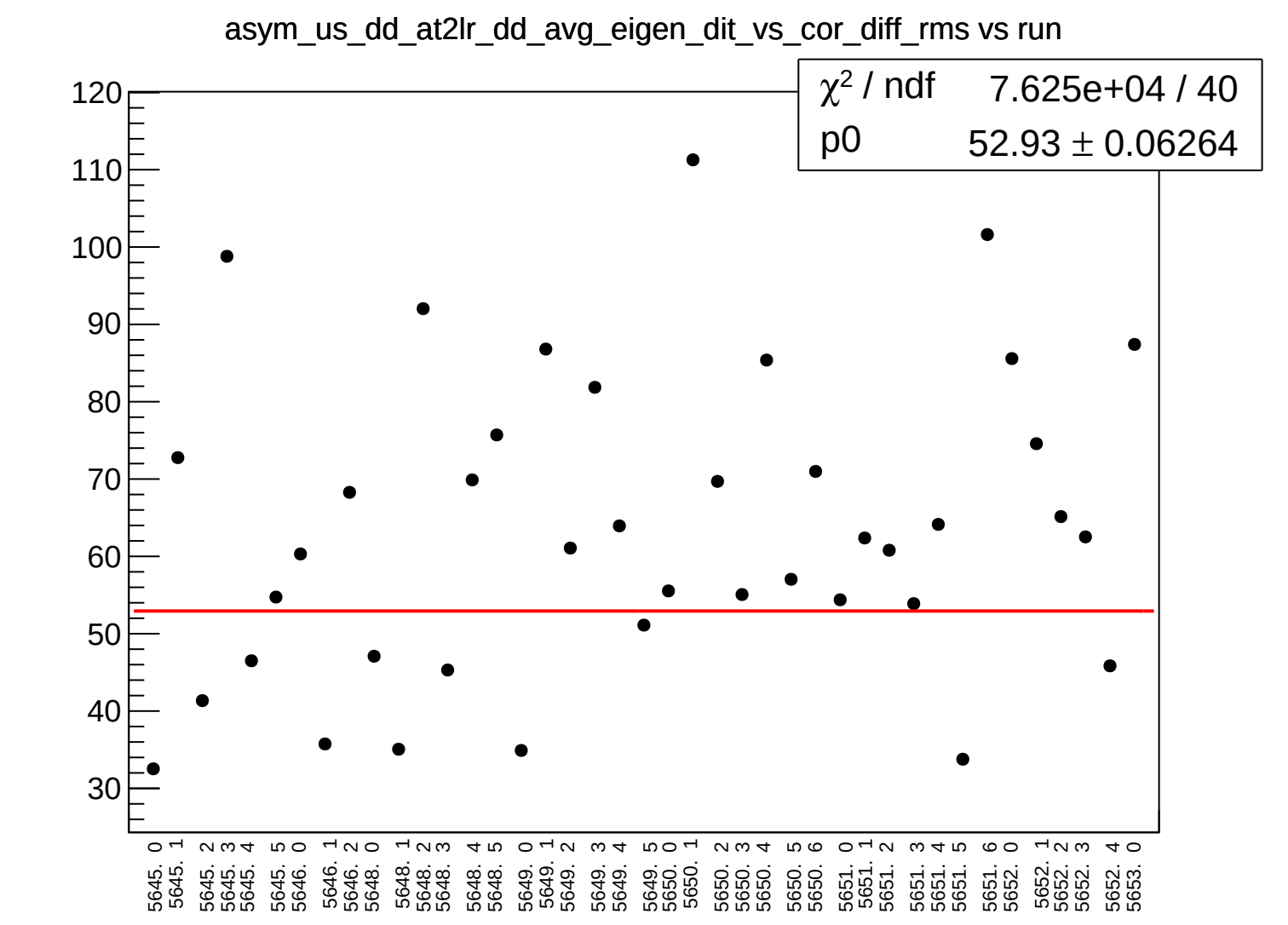

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.625e+04 / 40
p0 52.93 ± 0.06263
120
110
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

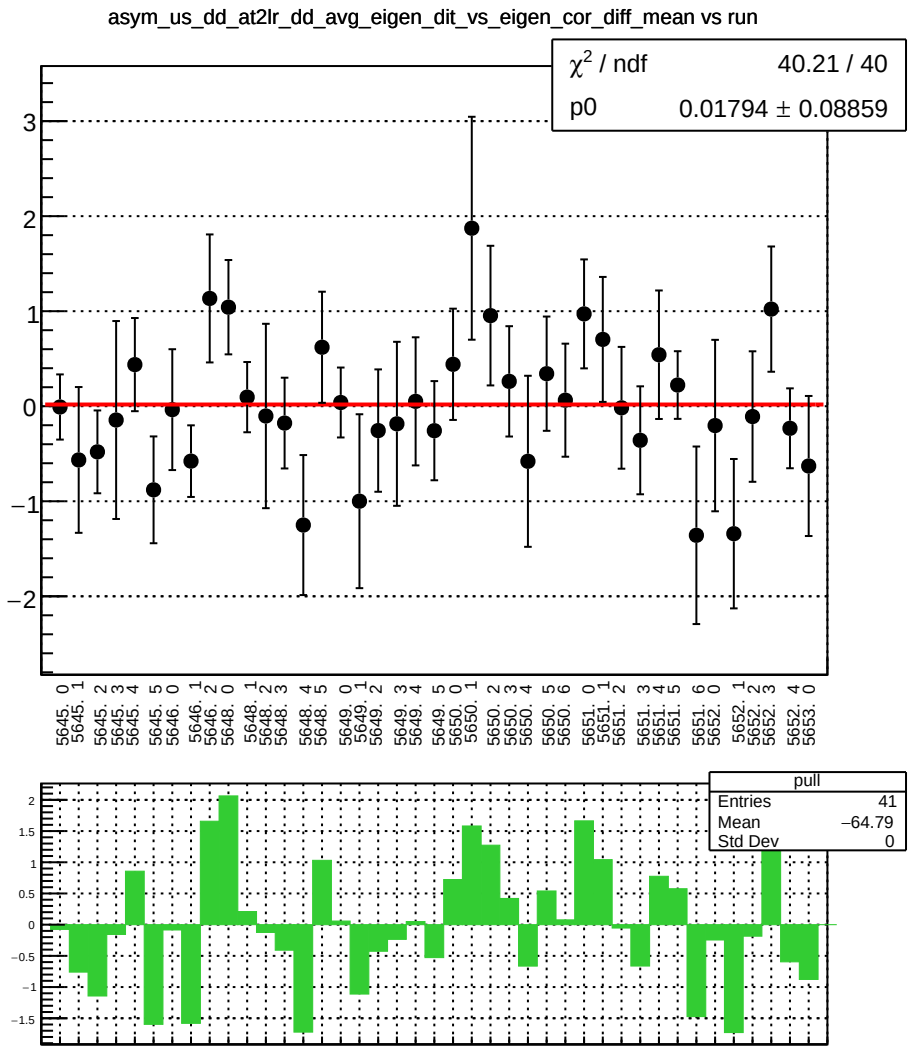

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 52.21 / 40
p0 1.071e−05 ± 3.771e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01374
Std Dev 1.128
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

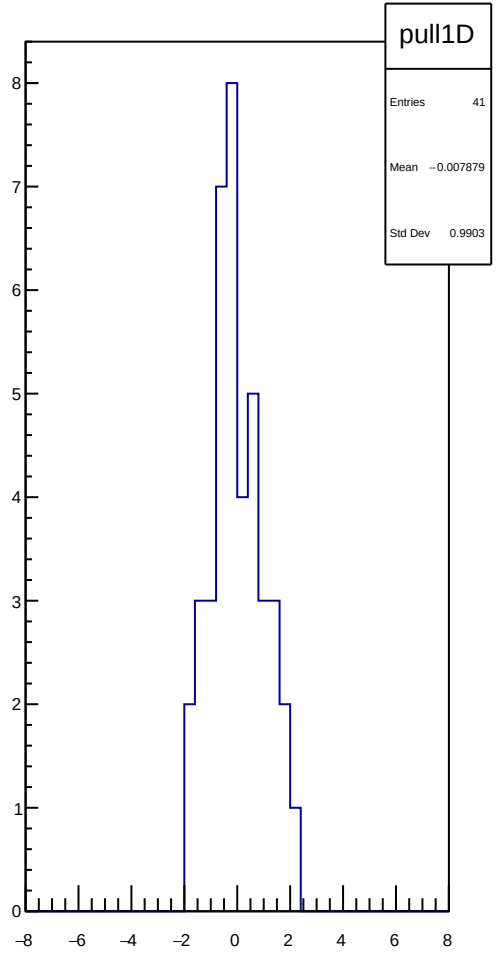

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4857 / 40
p0 0.02363 ± 2.667e−05
0.03
0.028
0.026
0.024
0.022
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

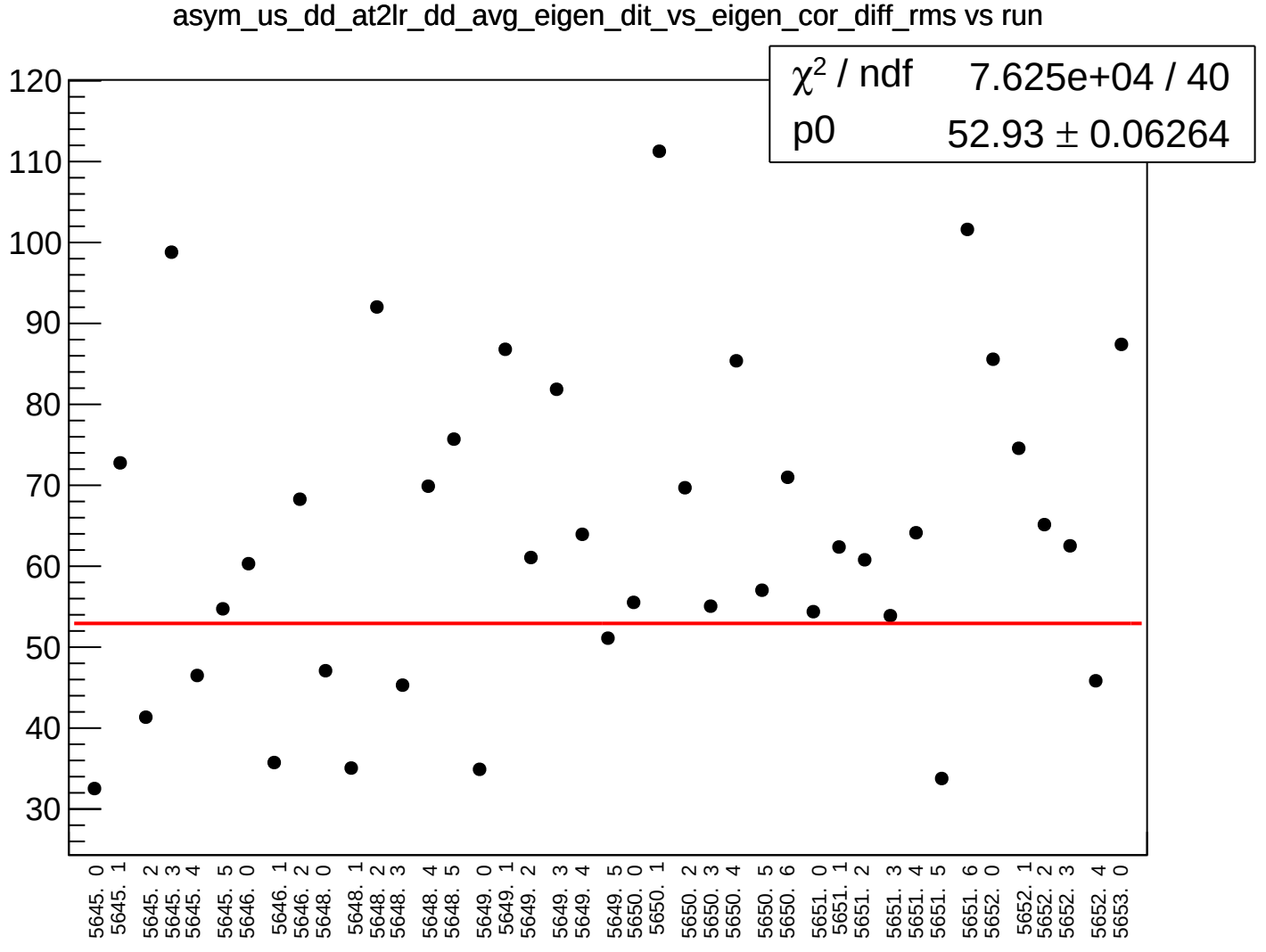

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.21 / 40
p0 0.01794 ± 0.08859
pull
Entries 41
Mean −64.79
Std Dev 0

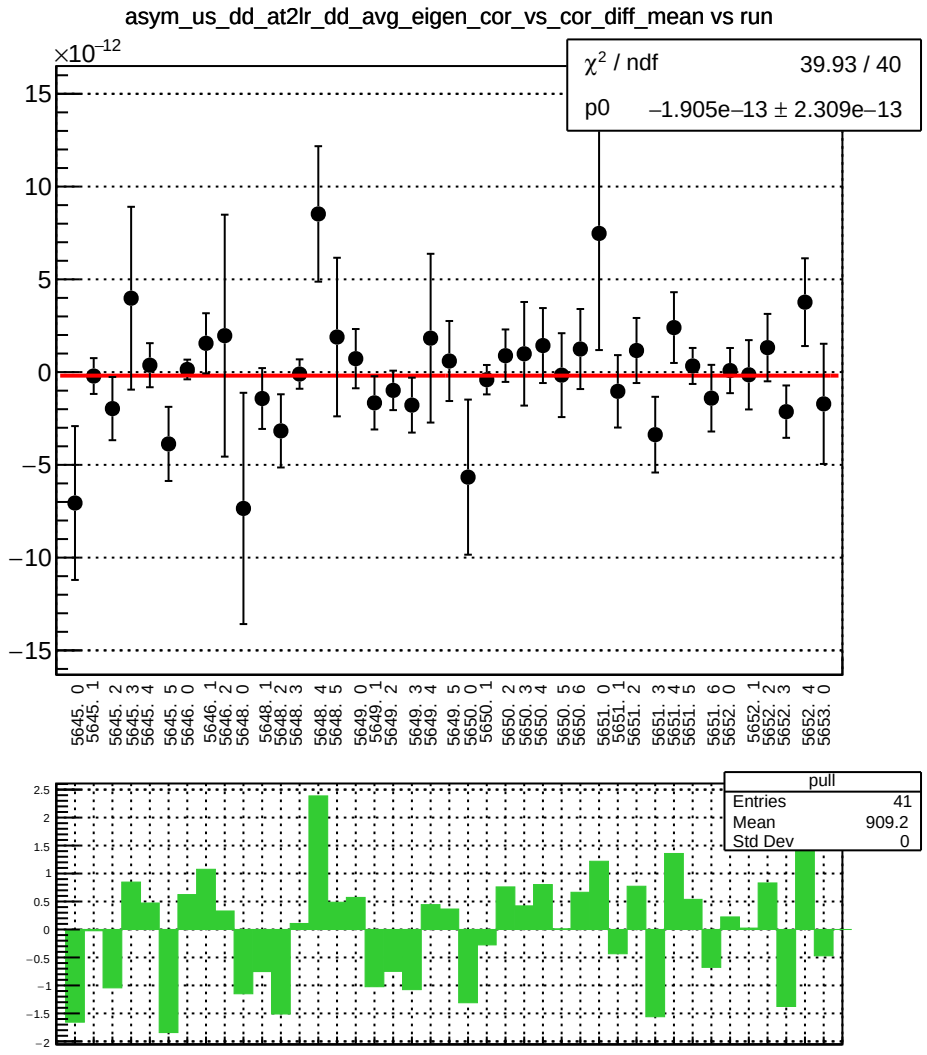

pull1D
Entries 41
Mean −0.007879
Std Dev 0.9903

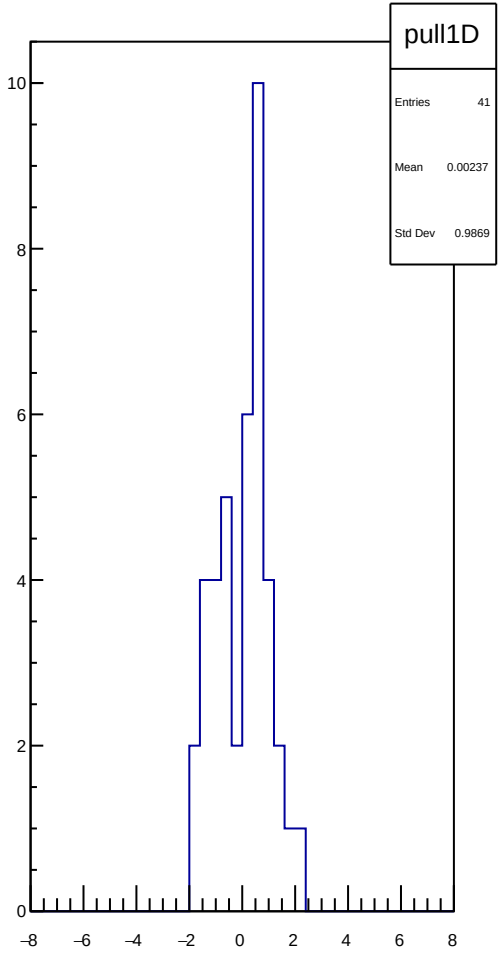

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.625e+04 / 40
p0 52.93 ± 0.06264
120
110
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

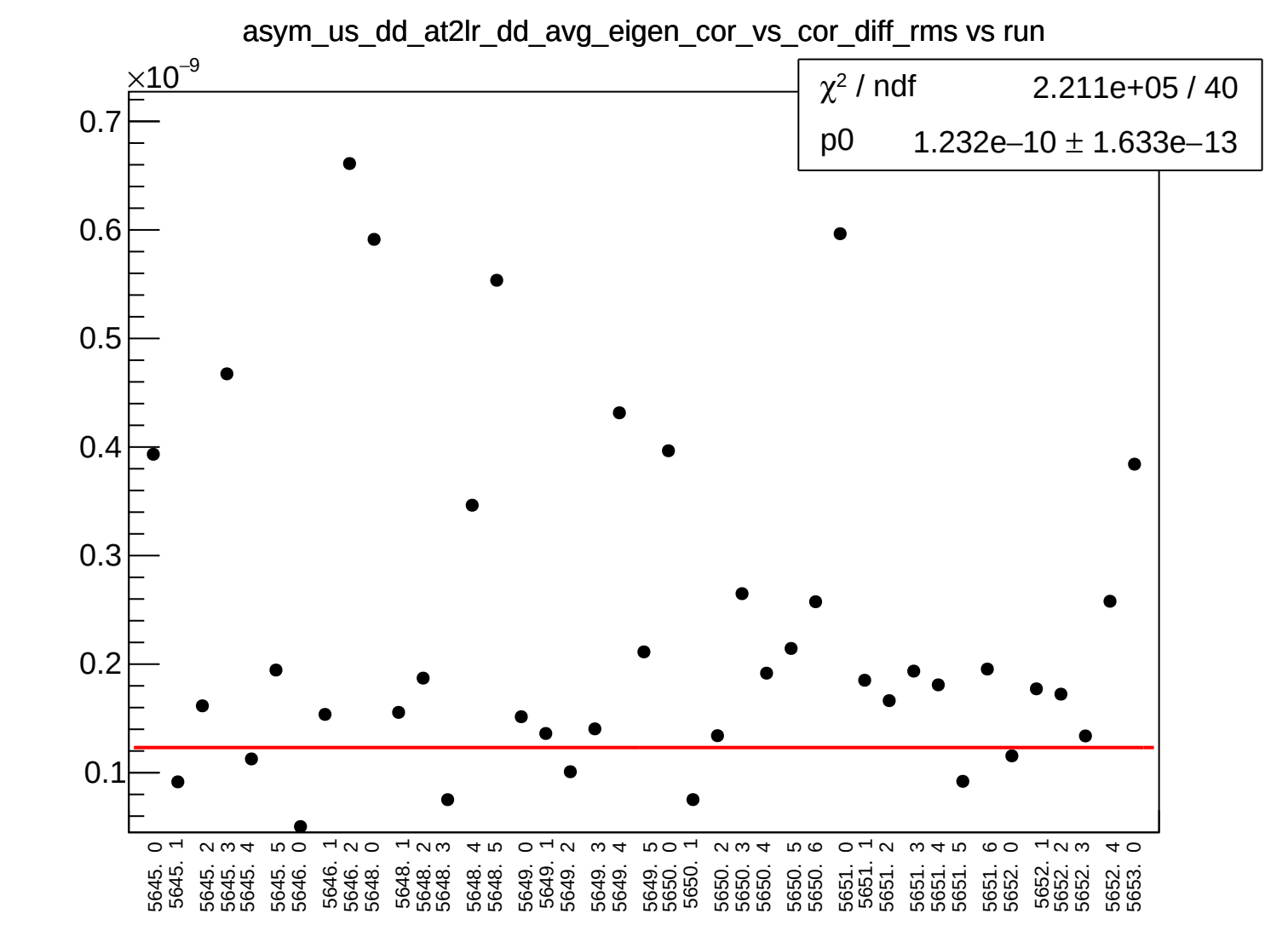

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.21 / 40
p0 0.01794 ± 0.08859
pull
Entries 41
Mean −64.79
Std Dev 0

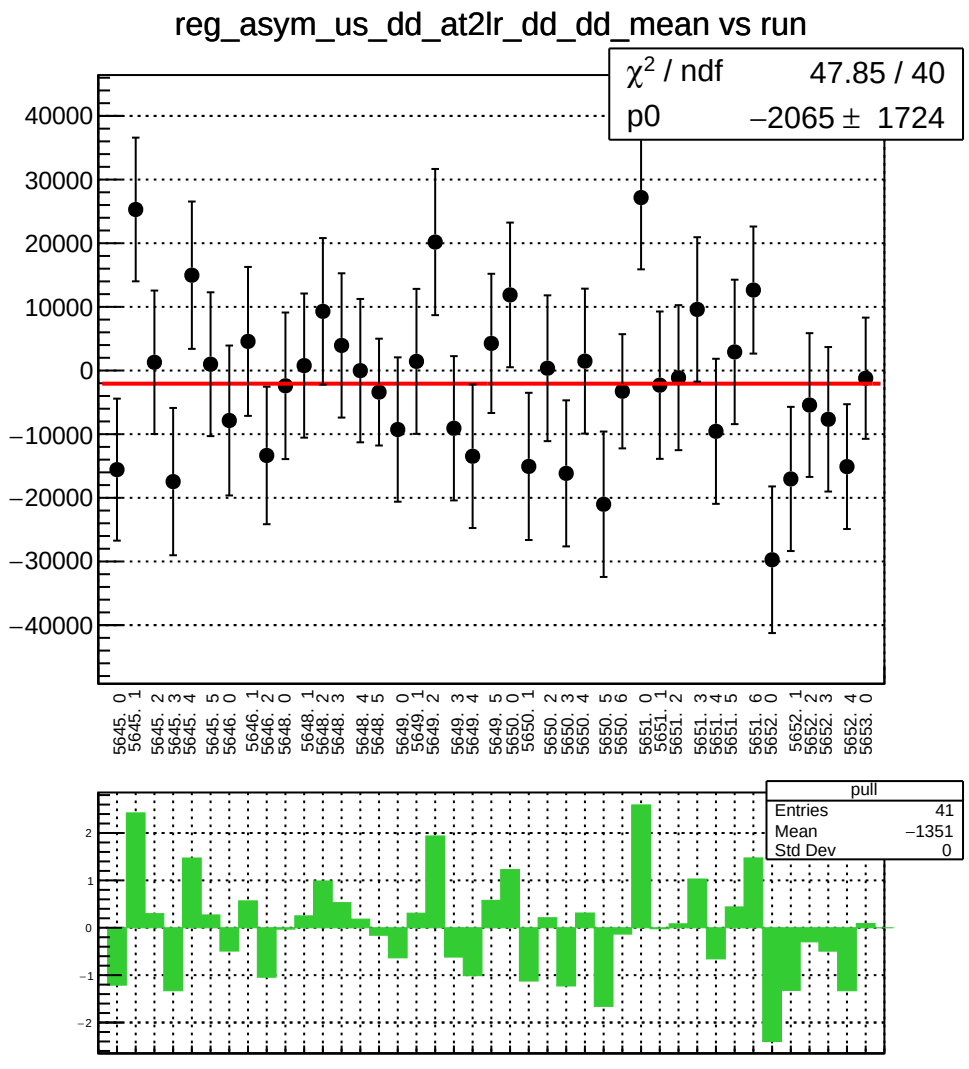

pull1D
Entries 41
Mean −0.007879
Std Dev 0.9903

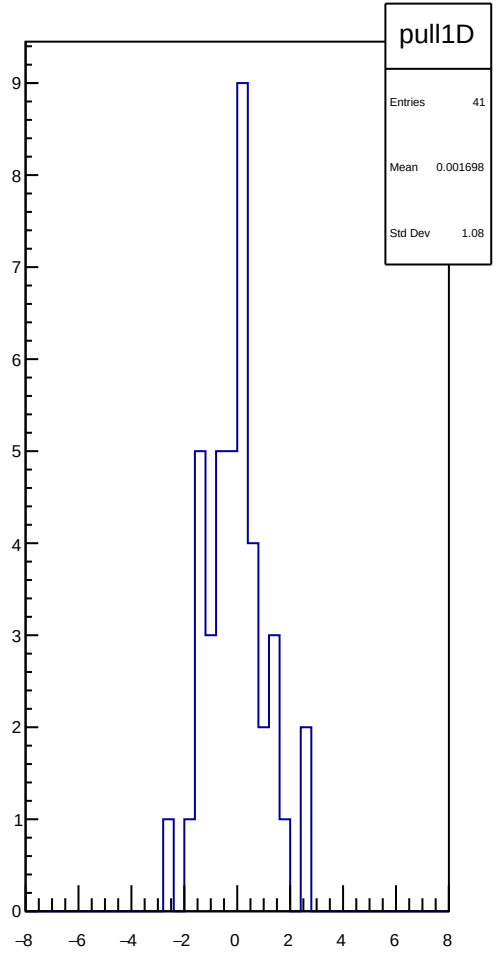

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.625e+04 / 40
p0 52.93 ± 0.06264
120
110
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

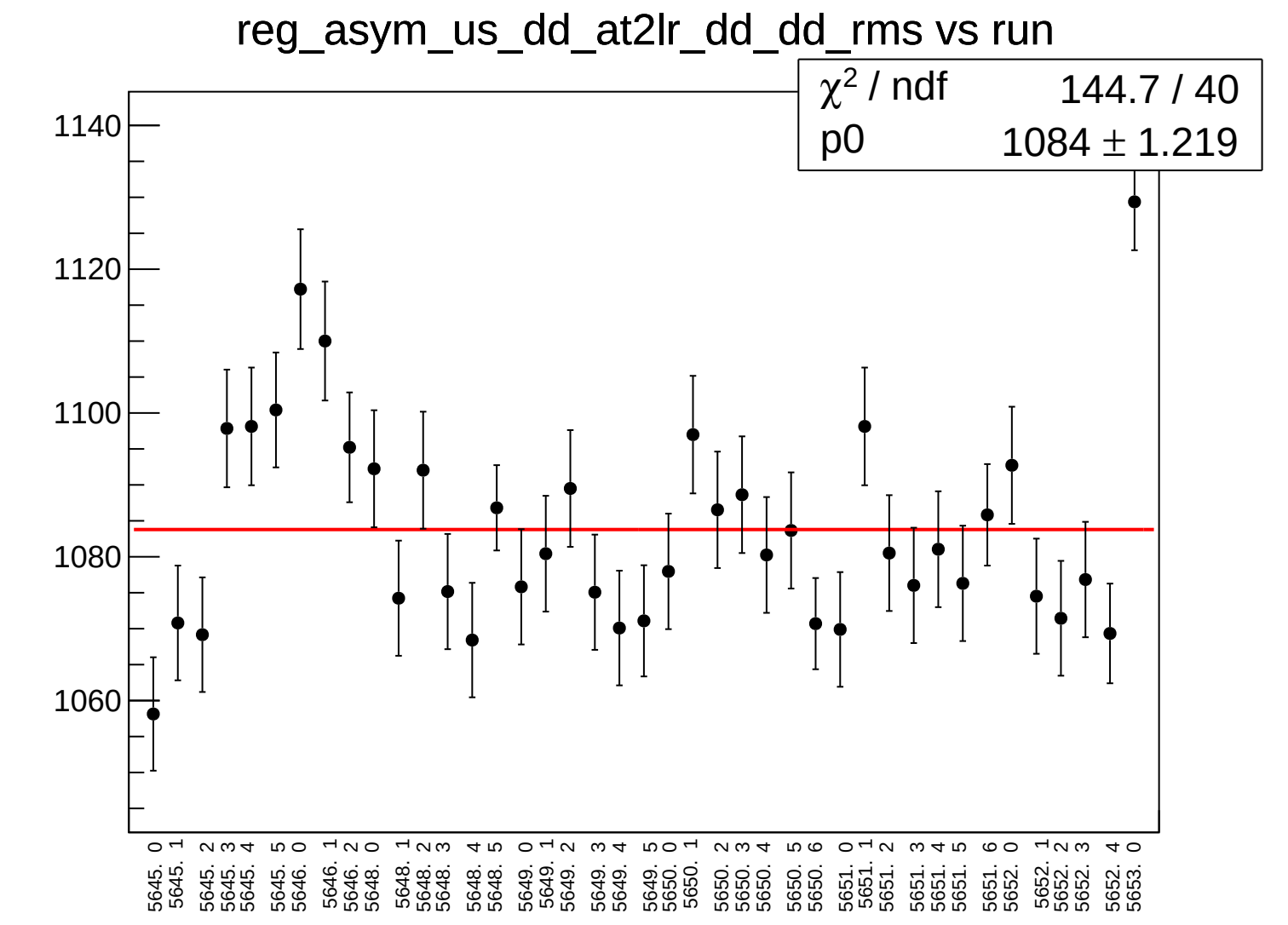

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.93 / 40
p0 −1.905e−13 ± 2.309e−13
pull
Entries 41
Mean 909.2
Std Dev 0

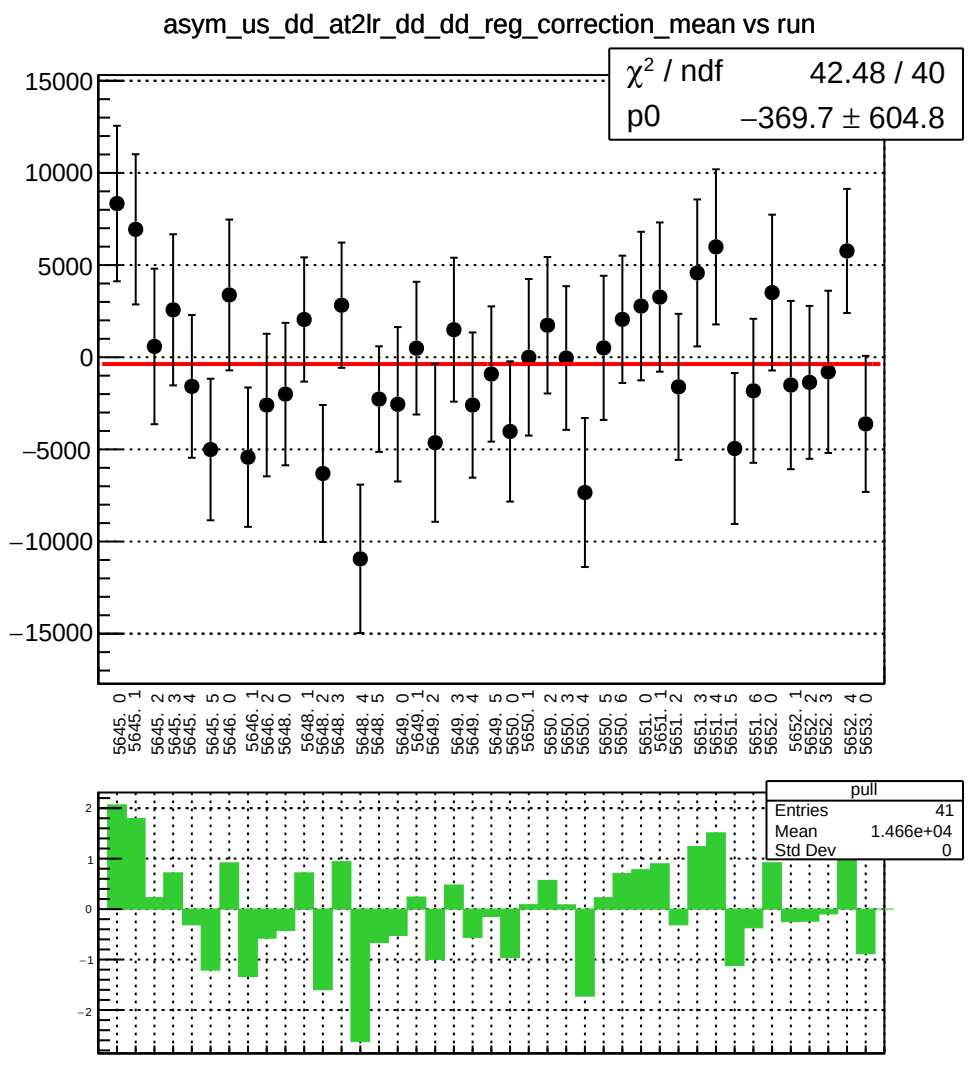

pull1D
Entries 41
Mean 0.00237
Std Dev 0.9869

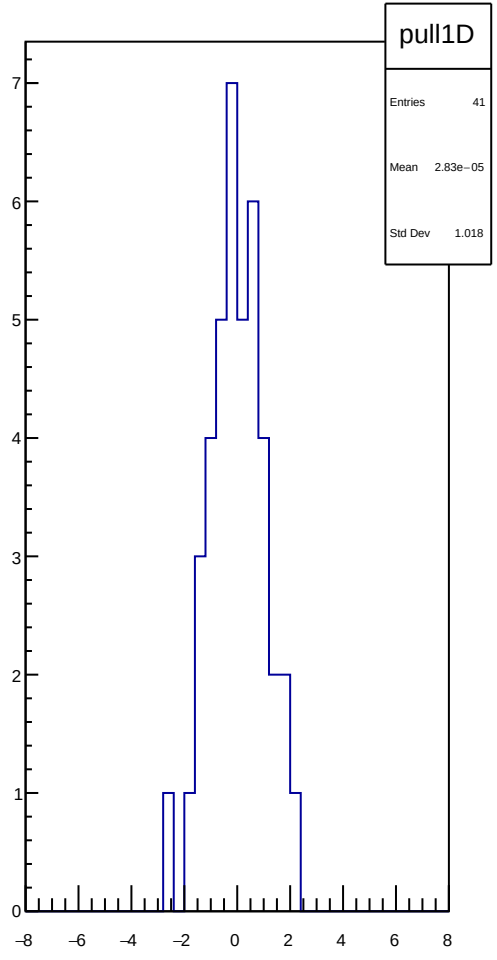

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.211e+05 / 40
p0 1.232e−10 ± 1.633e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

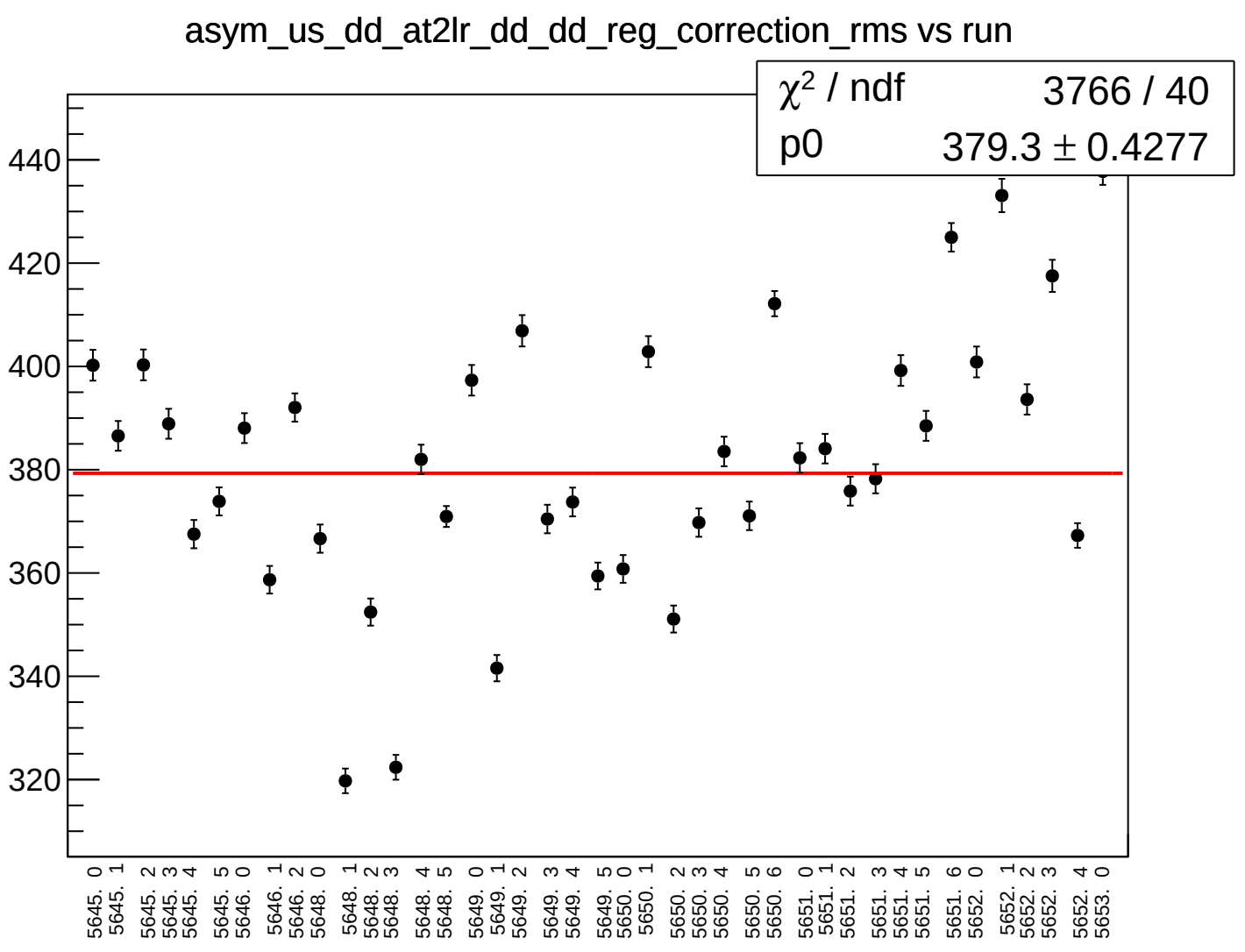

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.85 / 40
p0 −2065 ± 1724
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1351
Std Dev 0
2
1
0
−1
−2

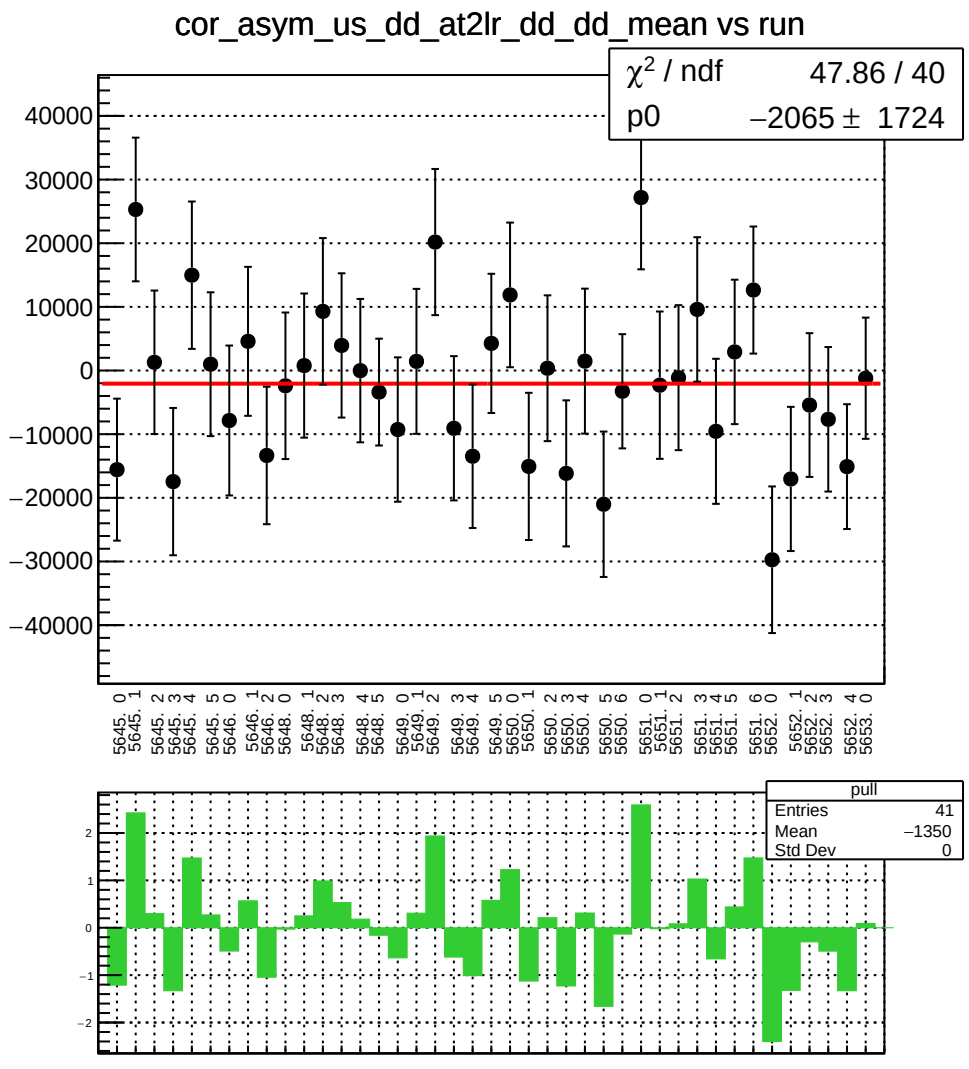

pull1D
Entries 41
Mean 0.001698
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

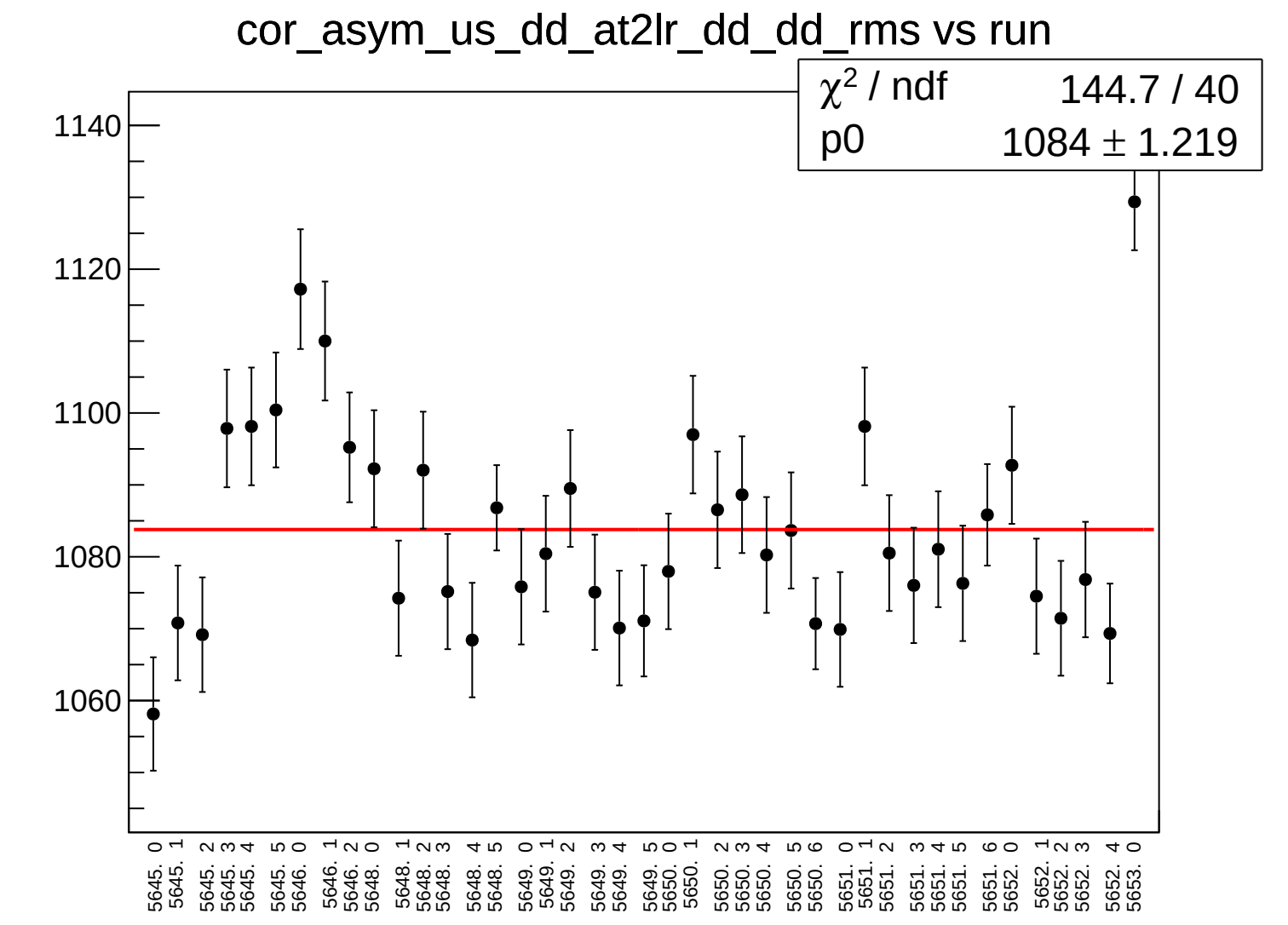

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 144.7 / 40
p0 1084 ± 1.219
1140
1120
1100
1080
1060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

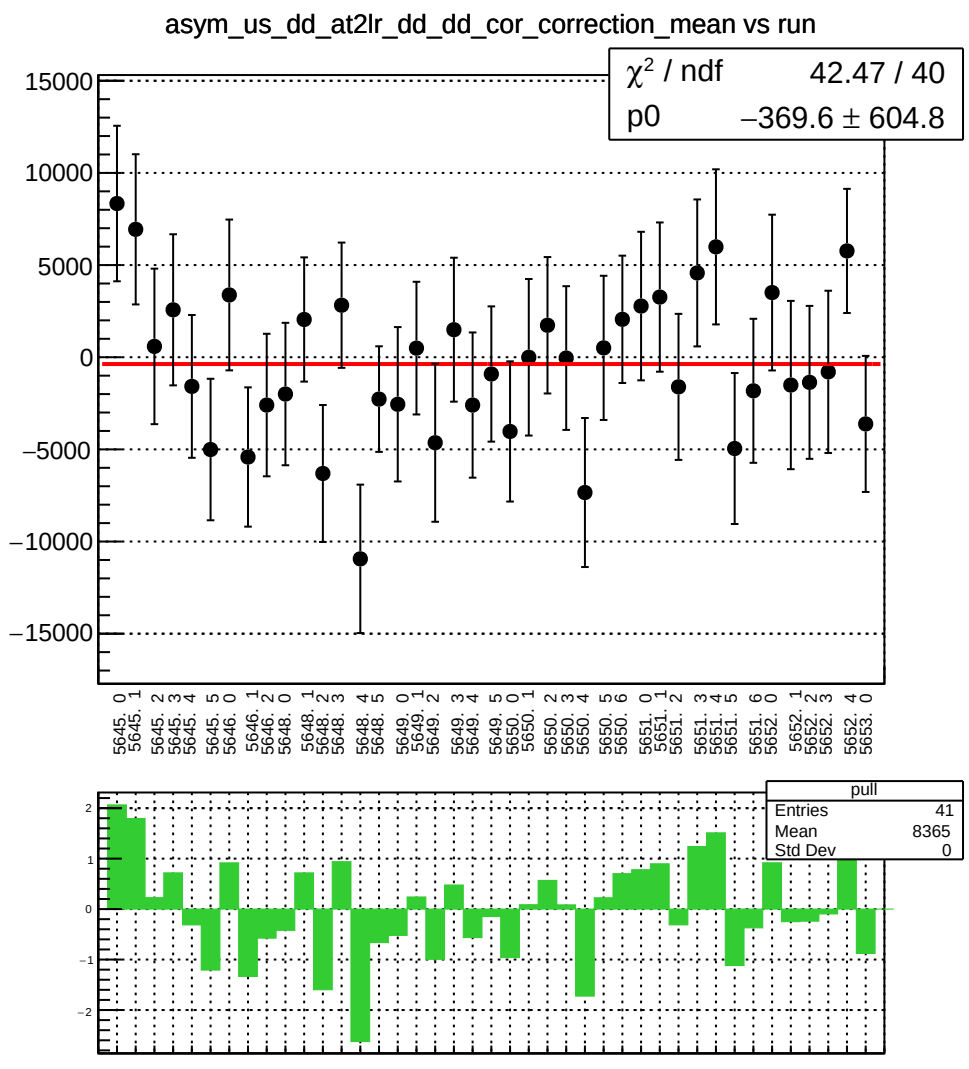

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 42.48 / 40
p0 −369.7 ± 604.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.466e+04
Std Dev 0
2
1
0
−1
−2

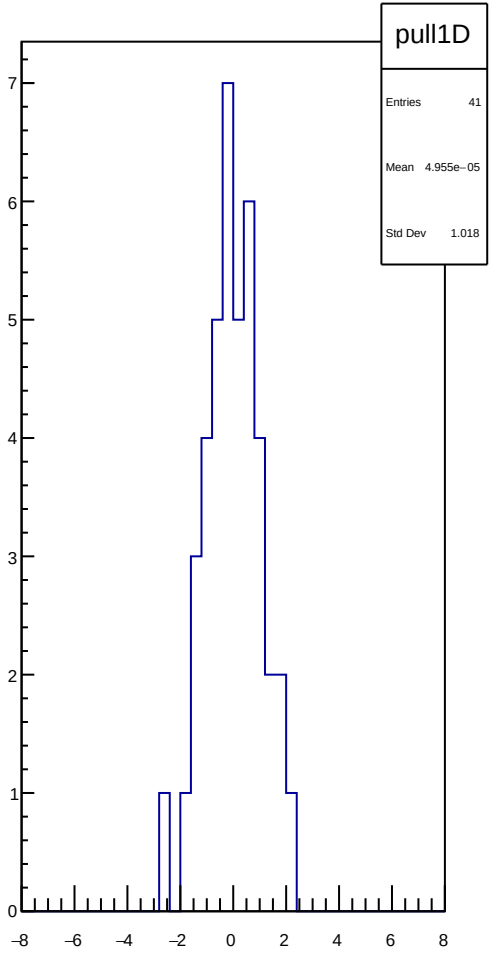

pull1D
Entries 41
Mean 2.83e−05
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

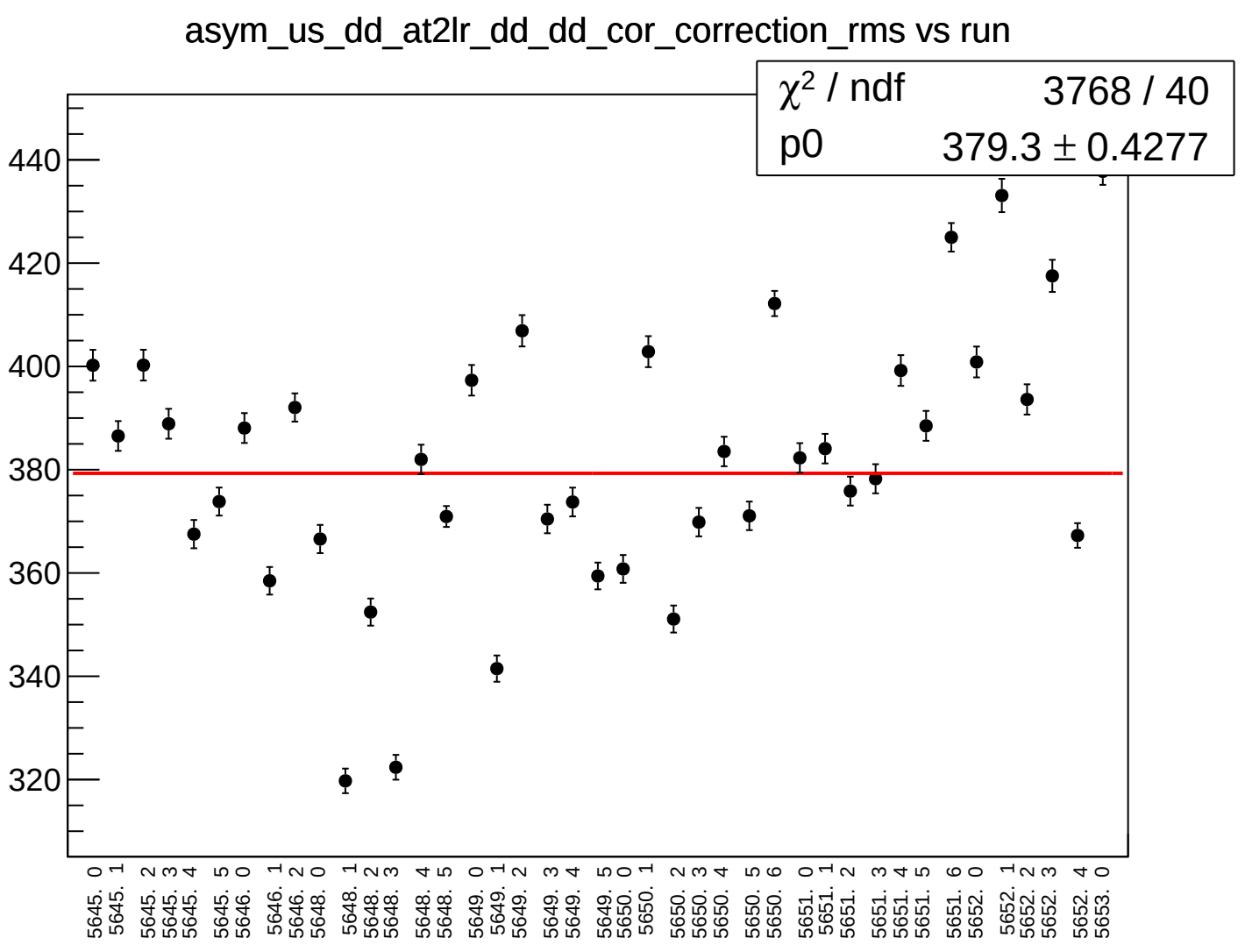

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3766 / 40
p0 379.3 ± 0.4277
440
420
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

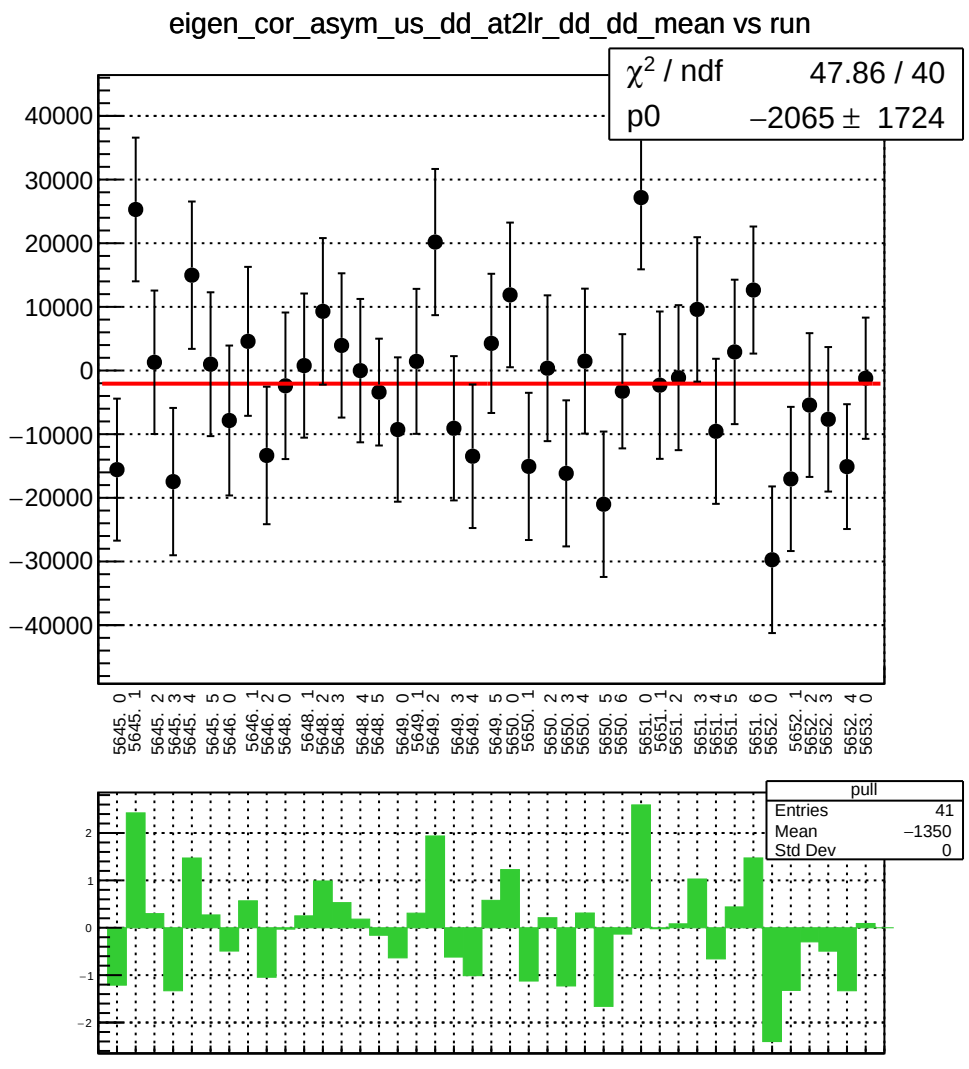

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.86 / 40
p0 −2065 ± 1724
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1350
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.001699
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

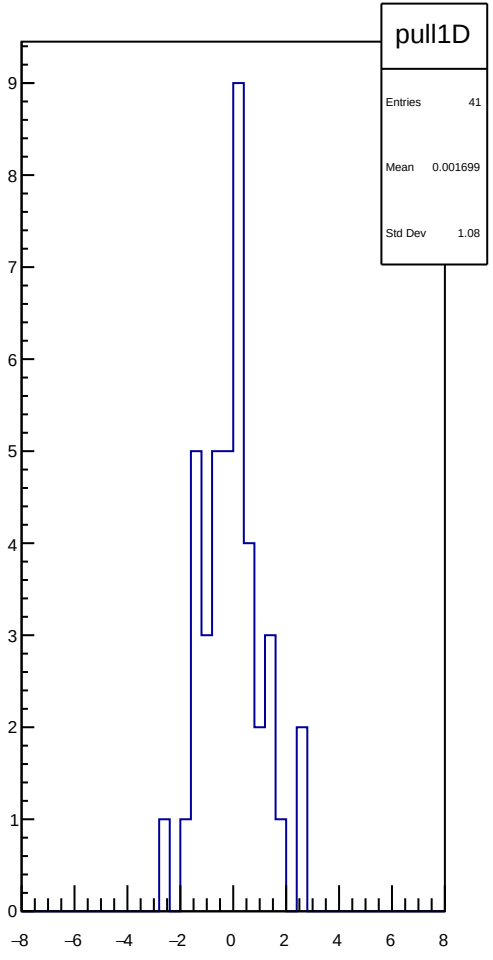

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 144.7 / 40
p0 1084 ± 1.219
1140
1120
1100
1080
1060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

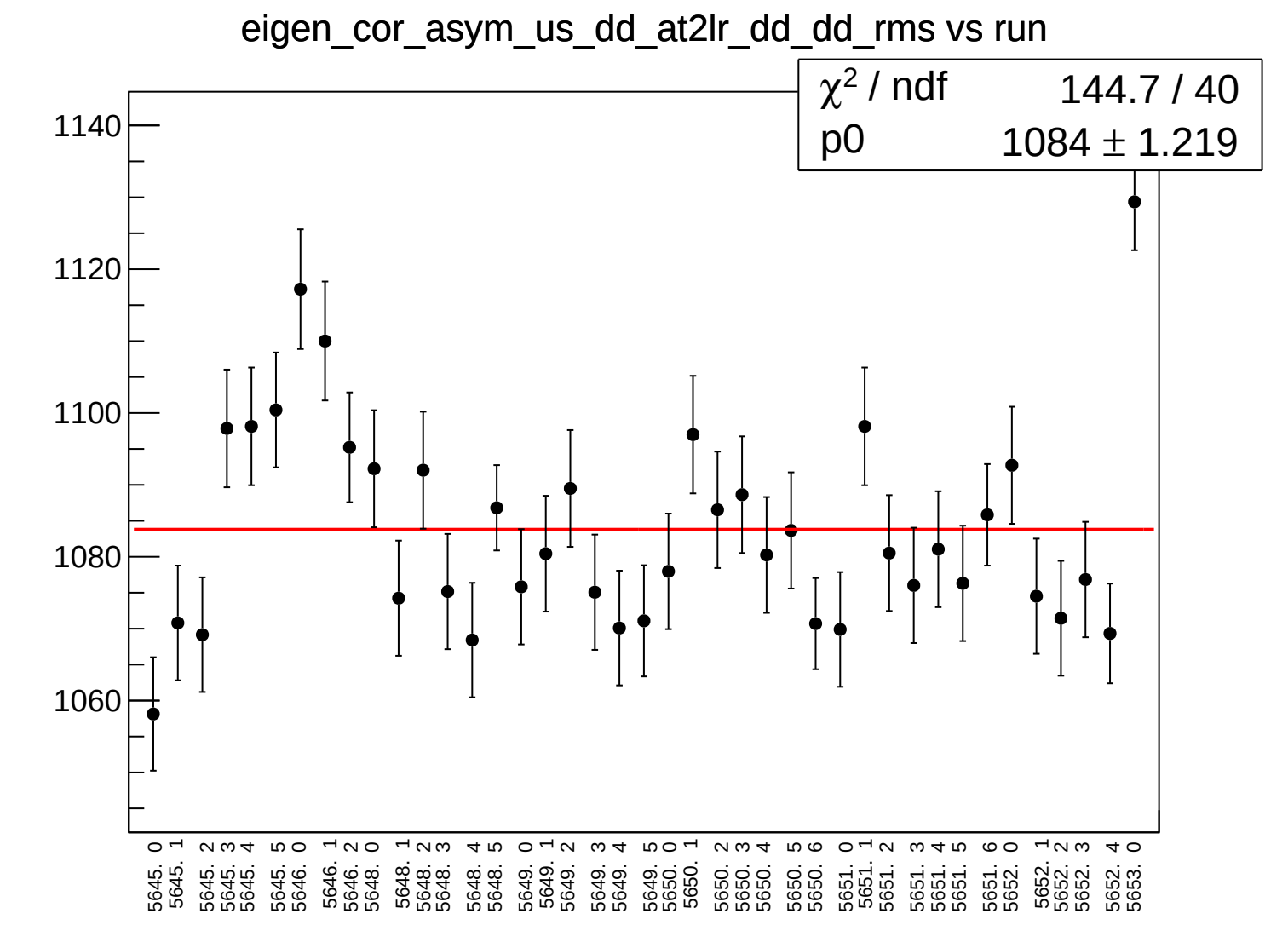

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 42.47 / 40
p0 −369.6 ± 604.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8365
Std Dev 0
2
1
0
−1
−2

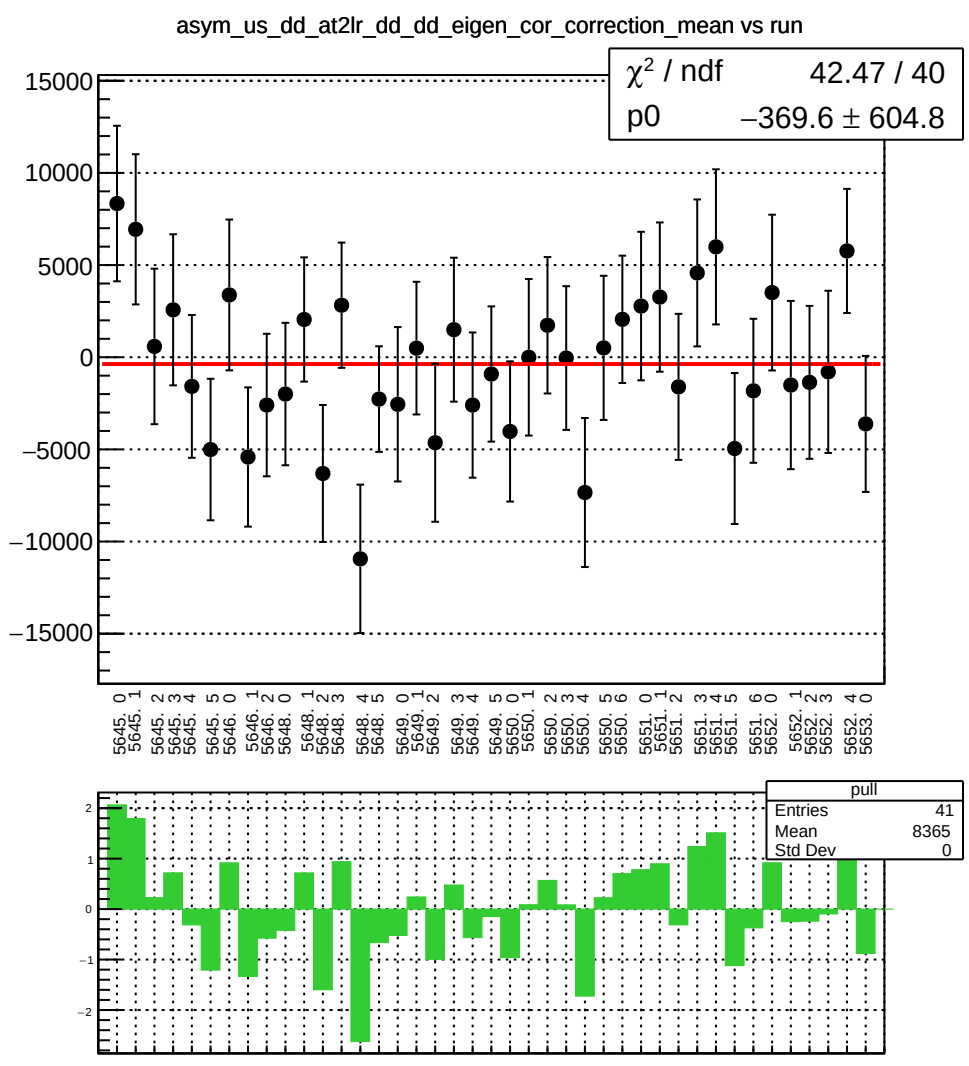

pull1D
Entries 41
Mean 4.955e−05
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

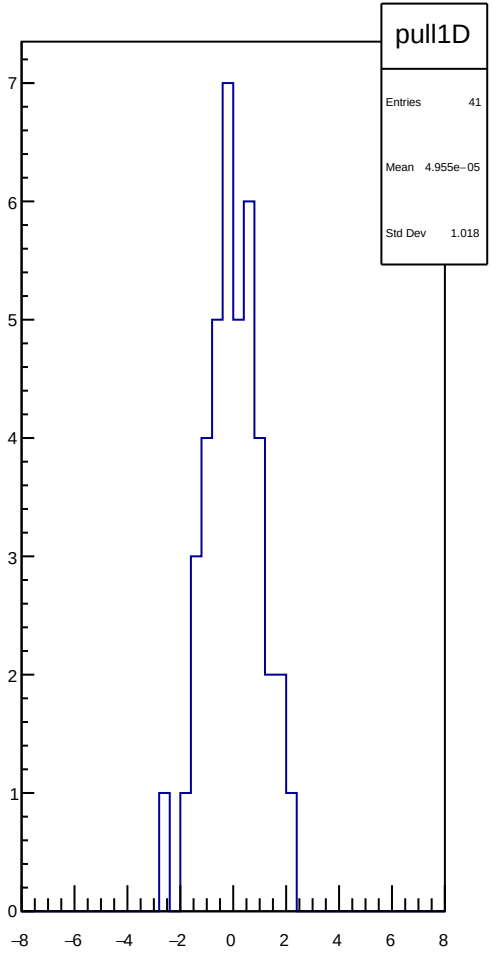

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3768 / 40
p0 379.3 ± 0.4277
440
420
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

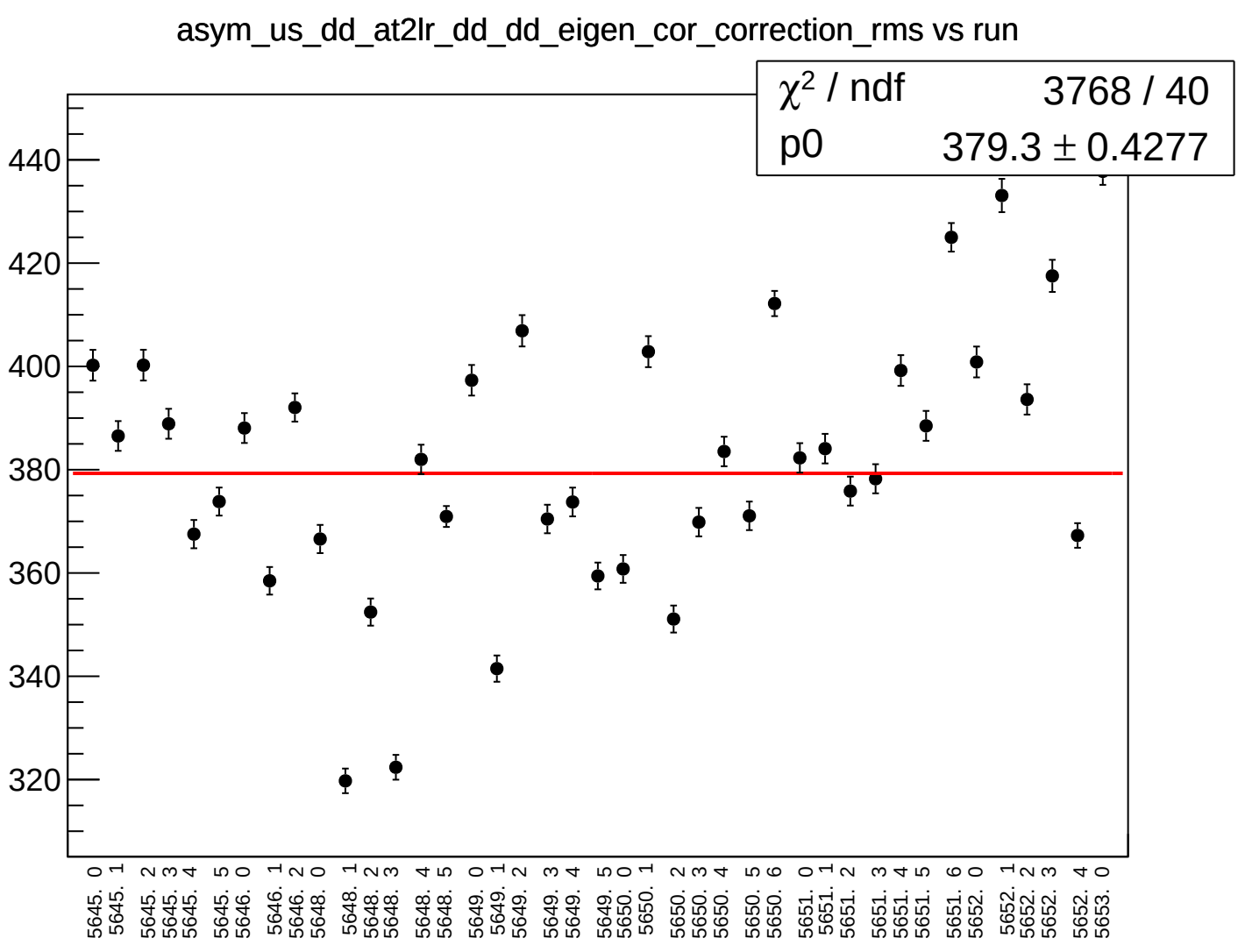

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 47.86 / 40
p0 −2065 ± 1724
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1350
Std Dev 0
2
1
0
−1
−2

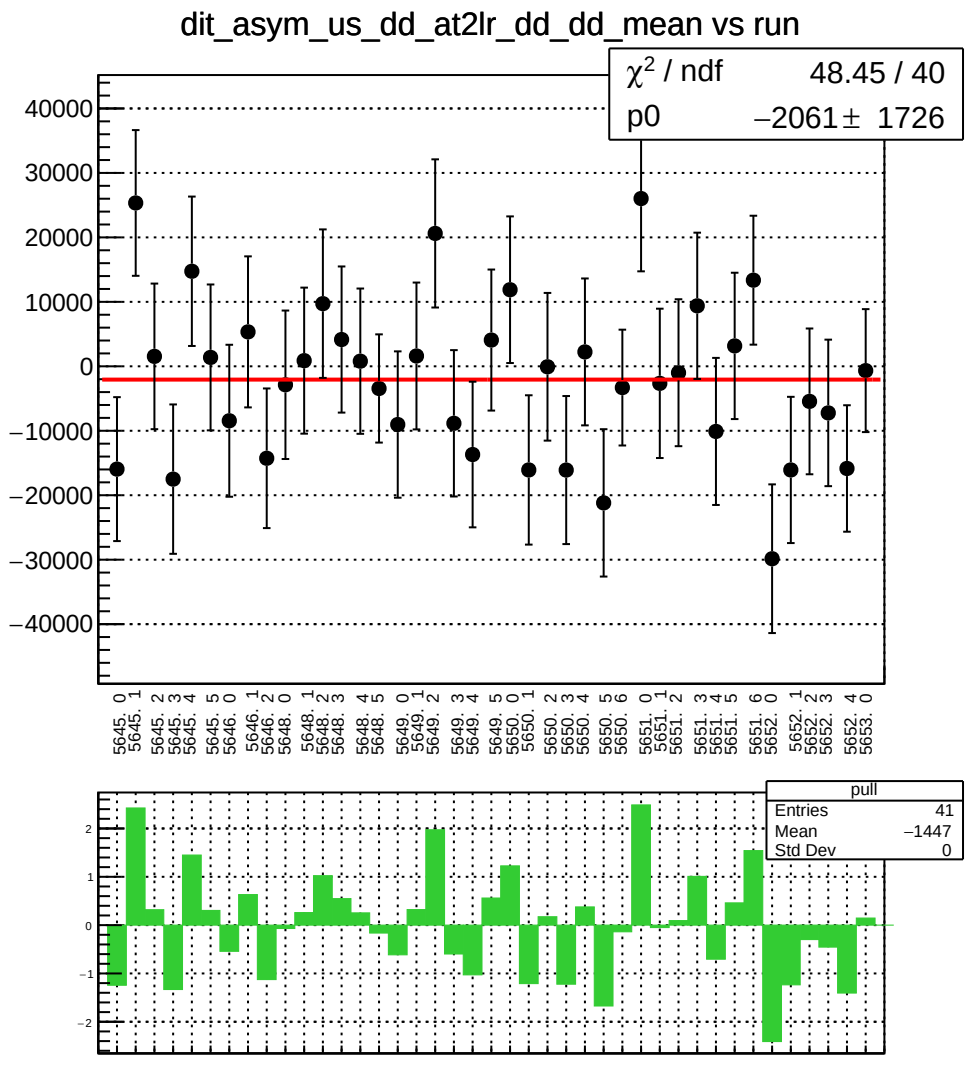

pull1D
Entries 41
Mean 0.001699
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

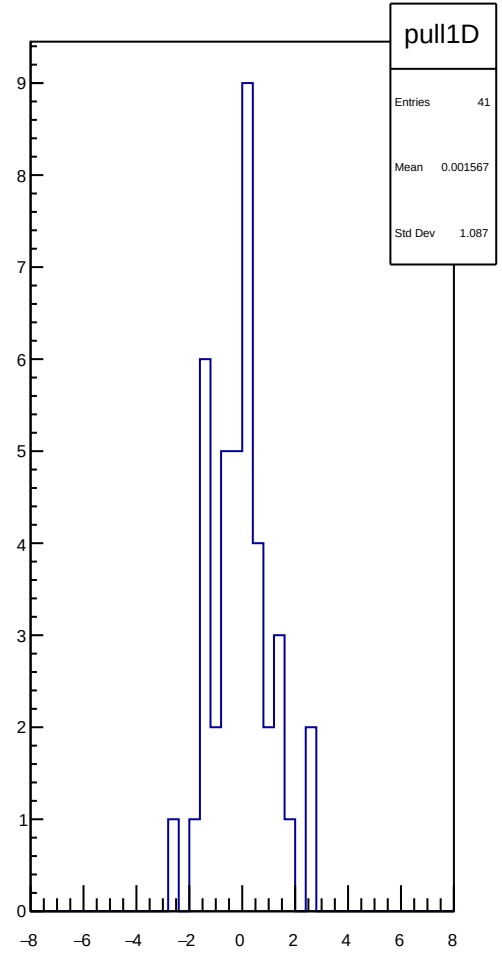

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 144.7 / 40
p0 1084 ± 1.219
1140
1120
1100
1080
1060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

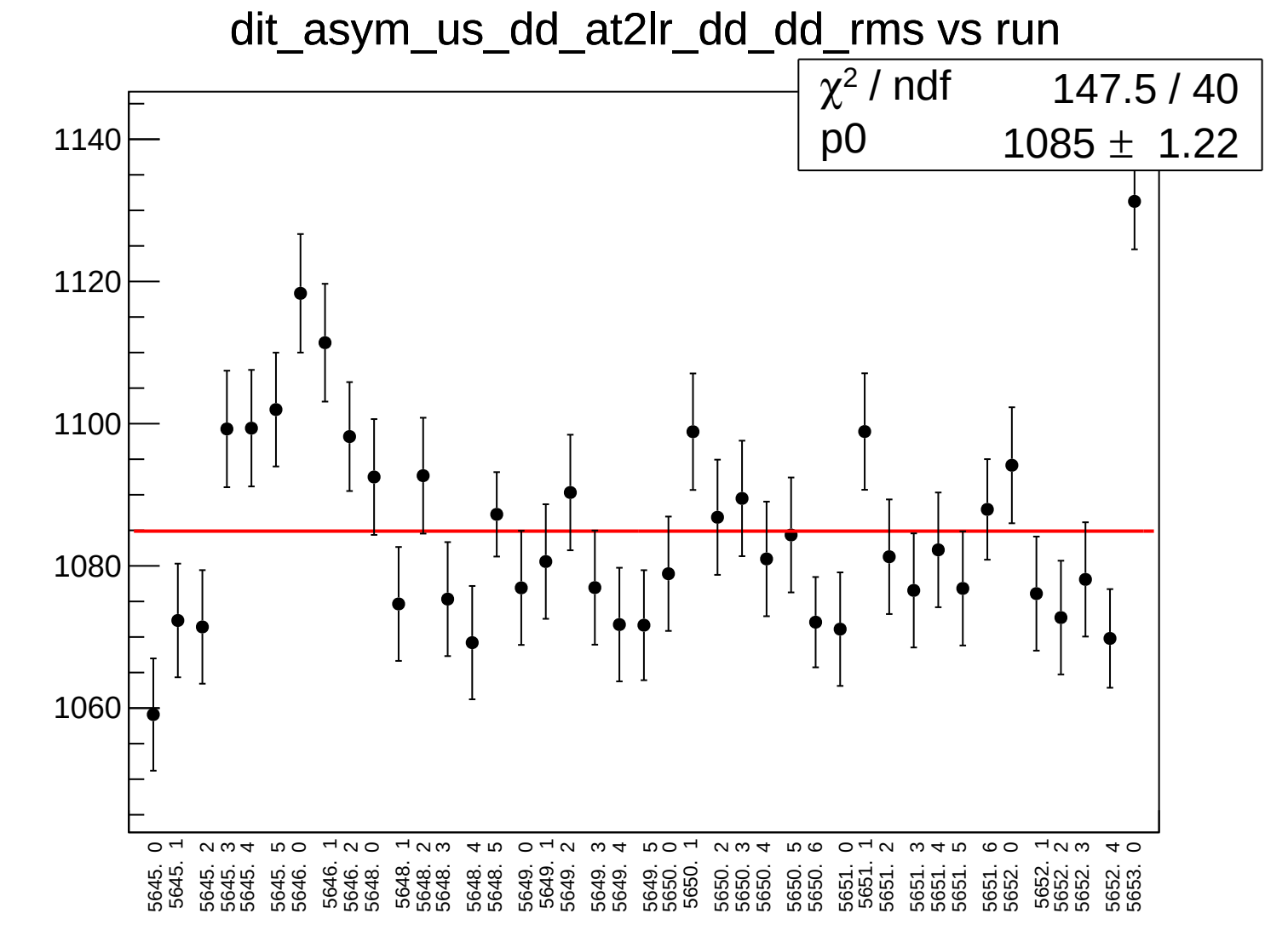

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 42.47 / 40
p0 −369.6 ± 604.8
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8365
Std Dev 0
2
1
0
−1
−2

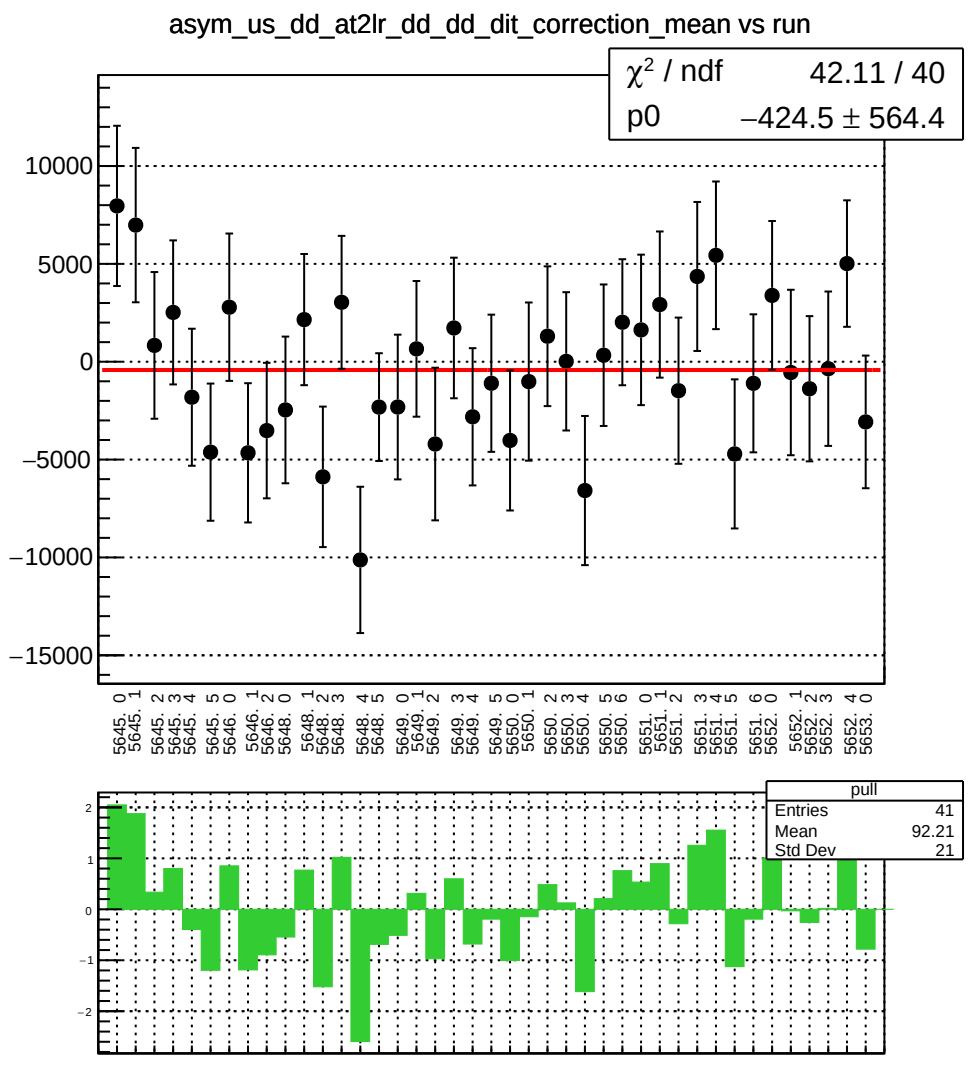

pull1D
Entries 41
Mean 4.955e−05
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

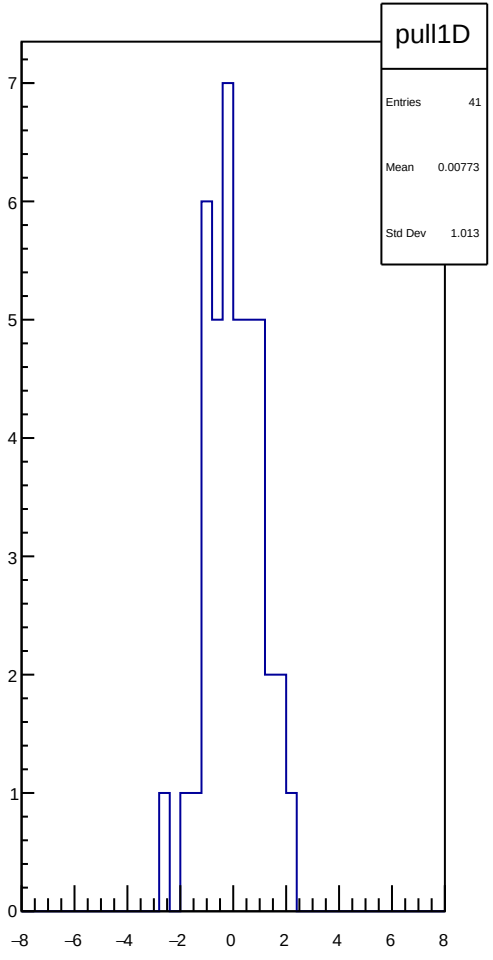

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3768 / 40
p0 379.3 ± 0.4277
440
420
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

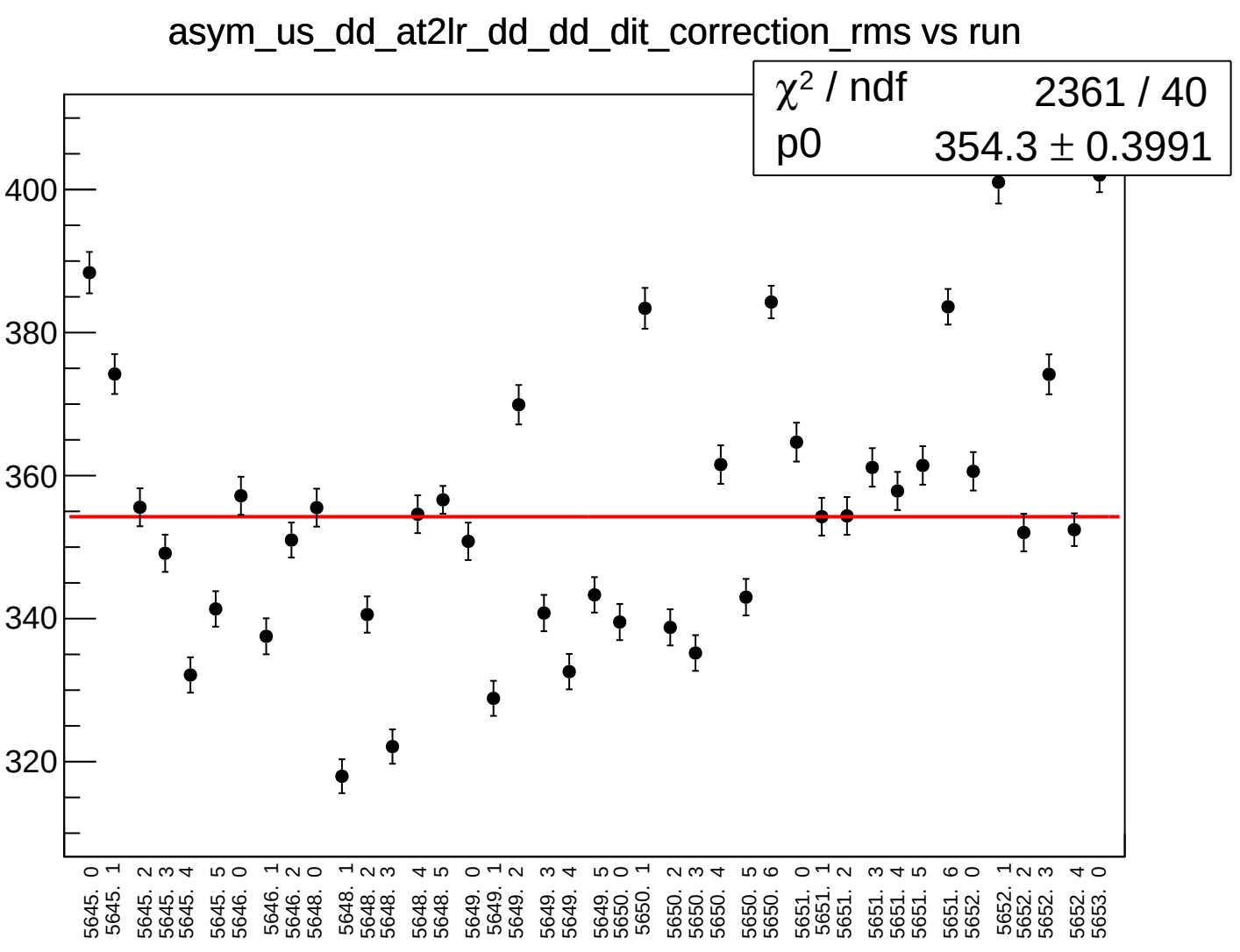

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 48.45 / 40
p0 −2061 ± 1726
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1447
Std Dev 0
2
1
0
−1
−2

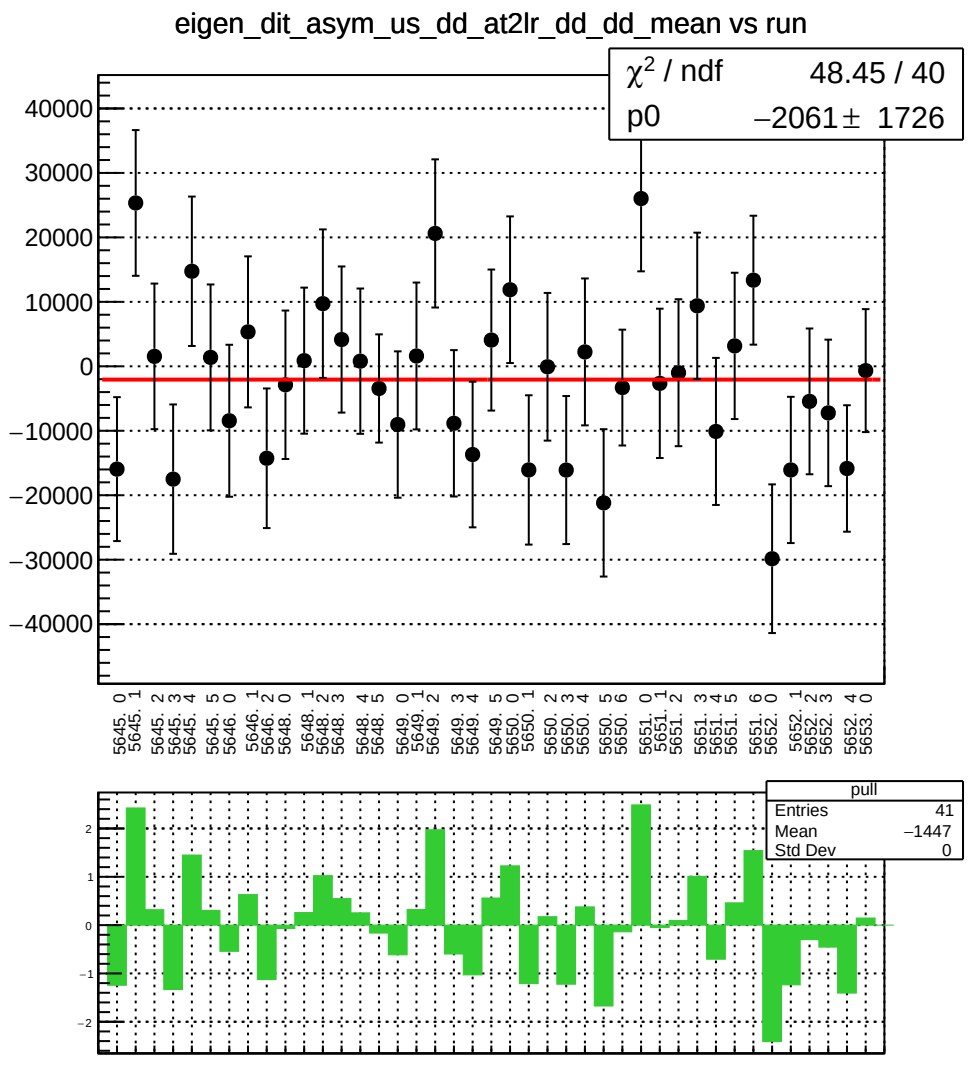

pull1D
Entries 41
Mean 0.001567
Std Dev 1.087
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

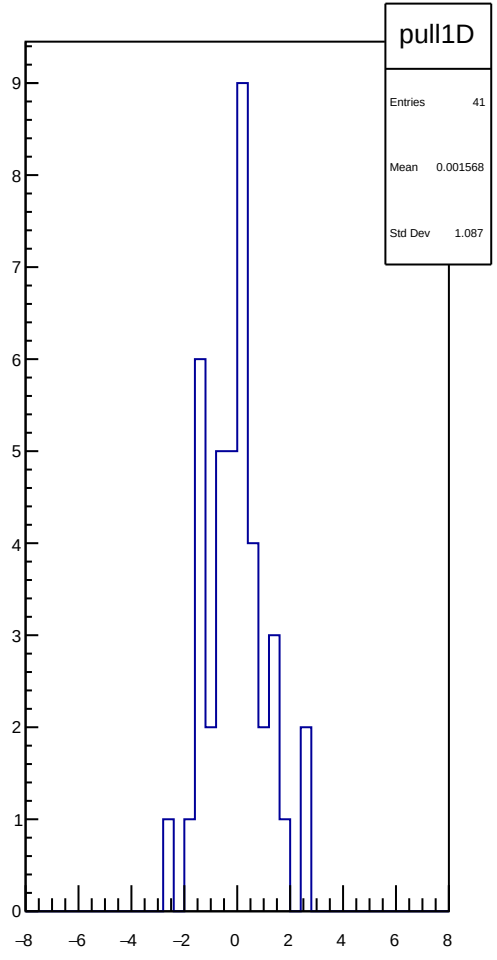

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 147.5 / 40
p0 1085 ± 1.22
1140
1120
1100
1080
1060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

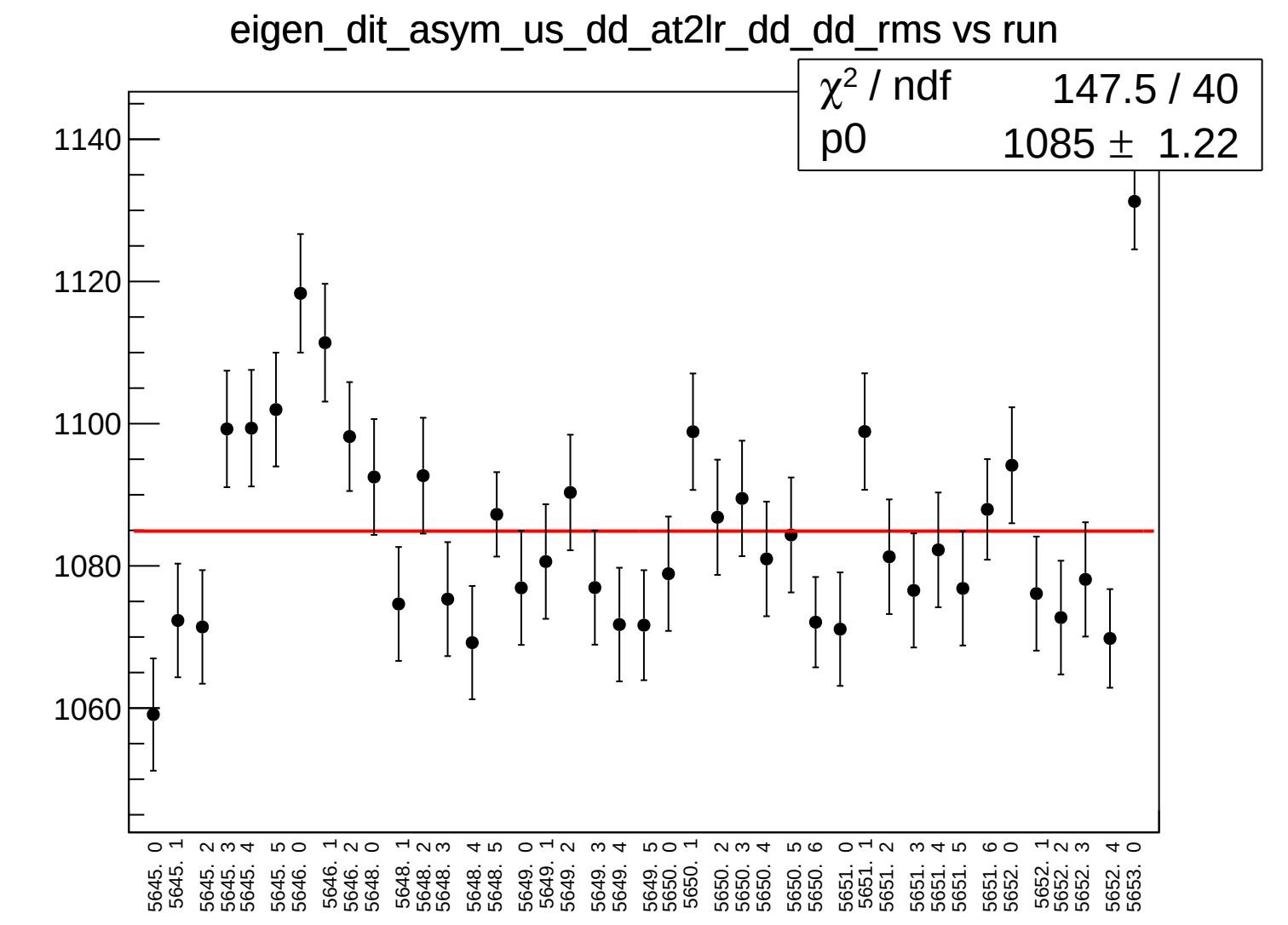

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 42.11 / 40
p0 −424.5 ± 564.4
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 92.21
Std Dev 21
2
1
0
−1
−2

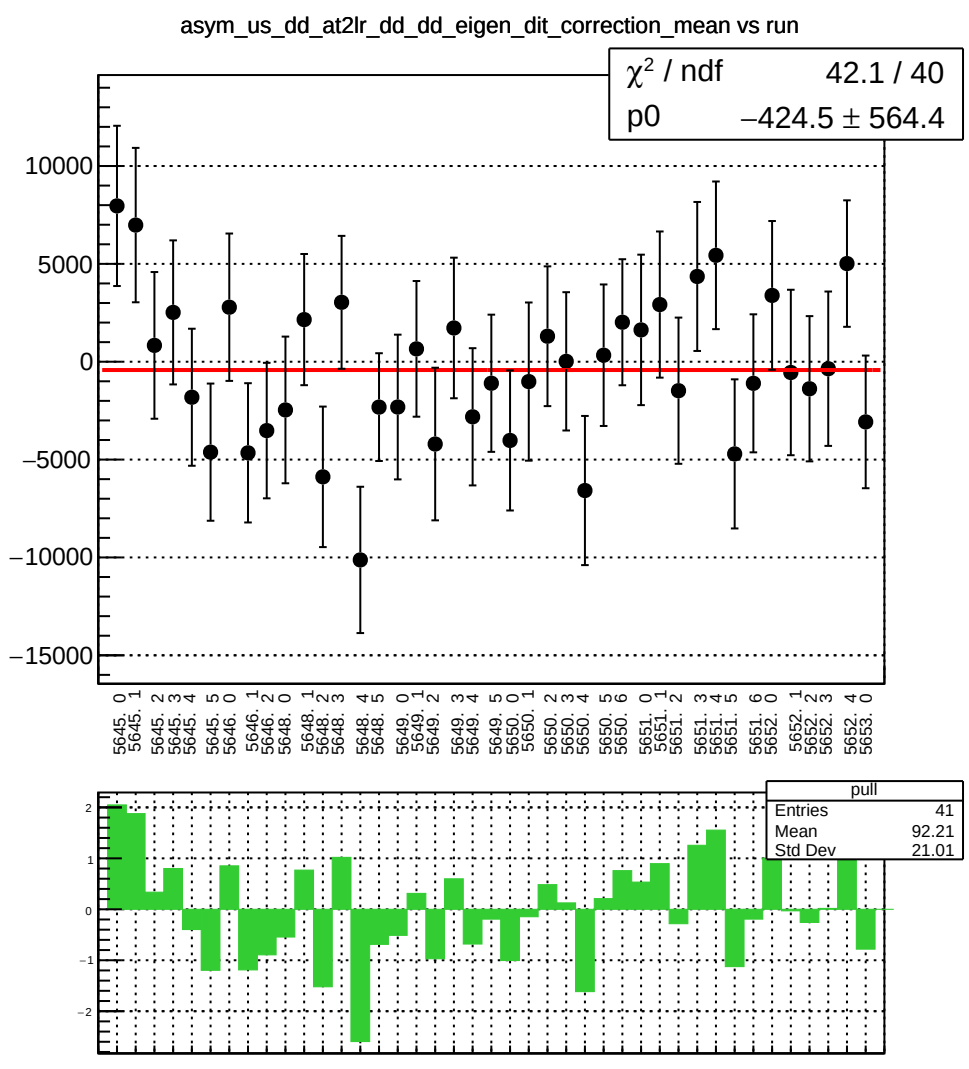

pull1D
Entries 41
Mean 0.00773
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

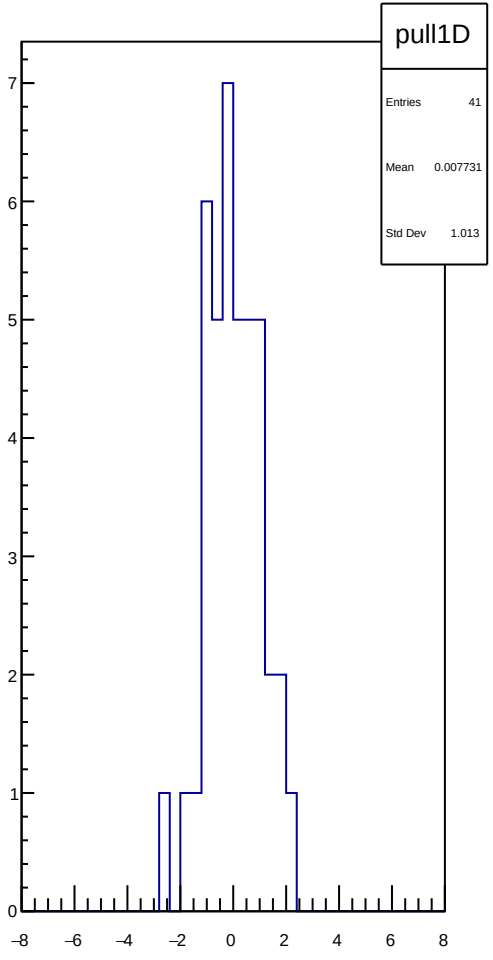

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2361 / 40
p0 354.3 ± 0.3991
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

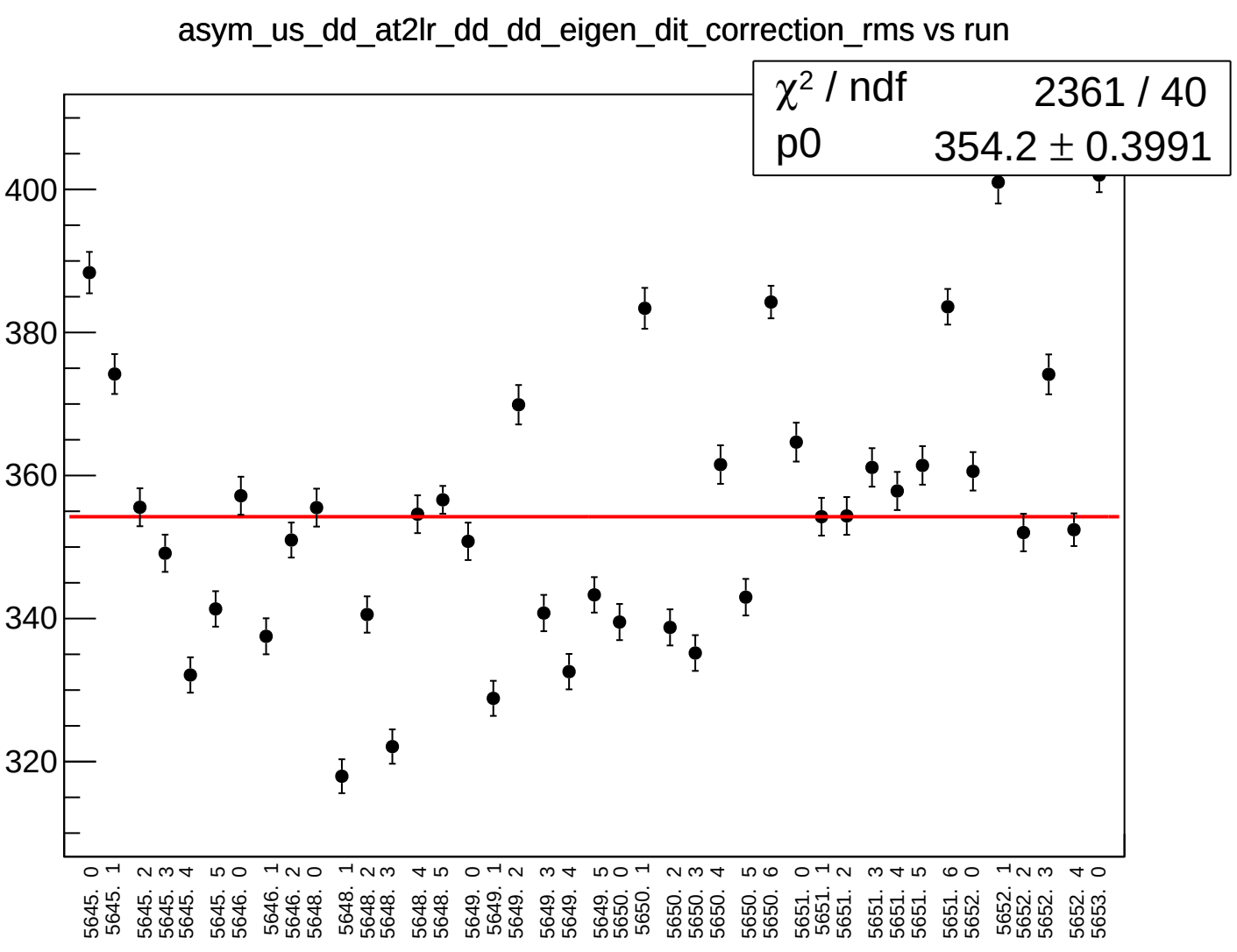

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 48.45 / 40
p0 −2061 ± 1726
pull
Entries 41
Mean −1447
Std Dev 0

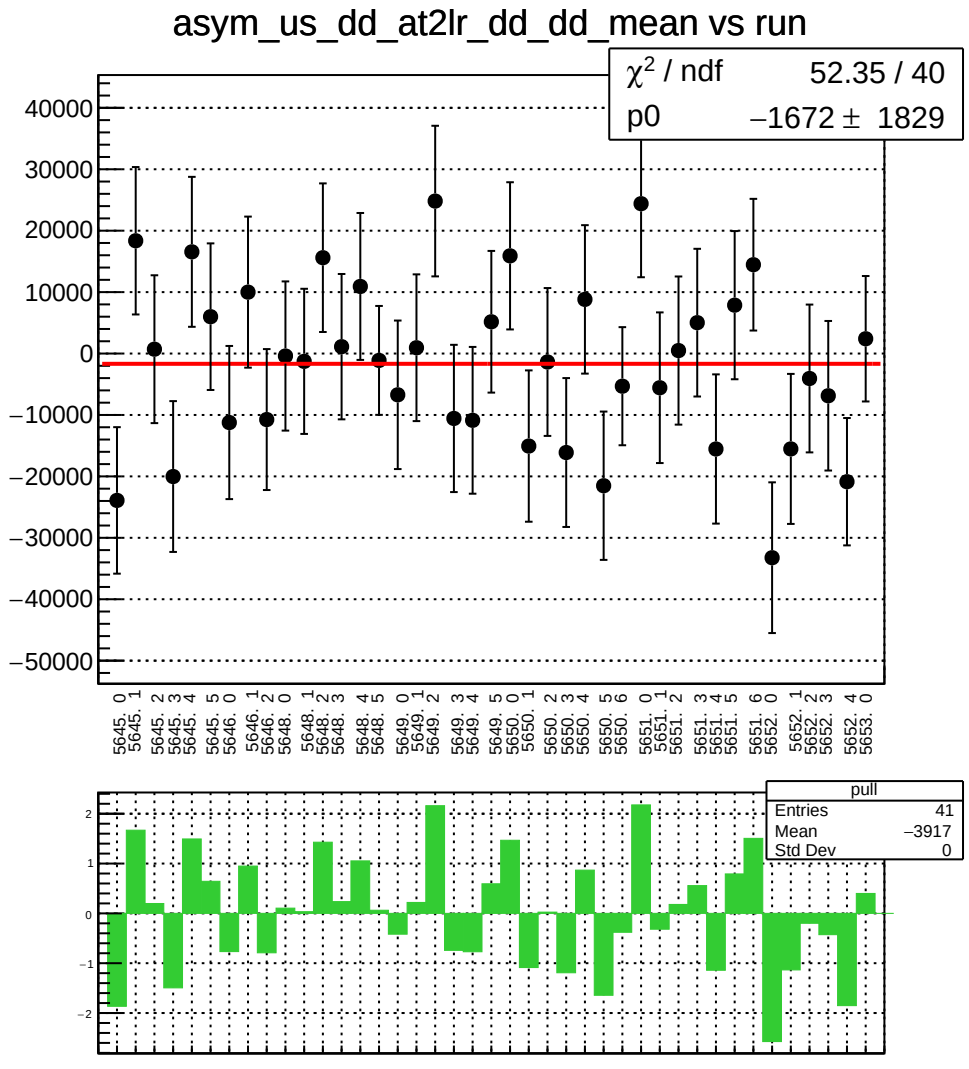

pull1D
Entries 41
Mean 0.001568
Std Dev 1.087

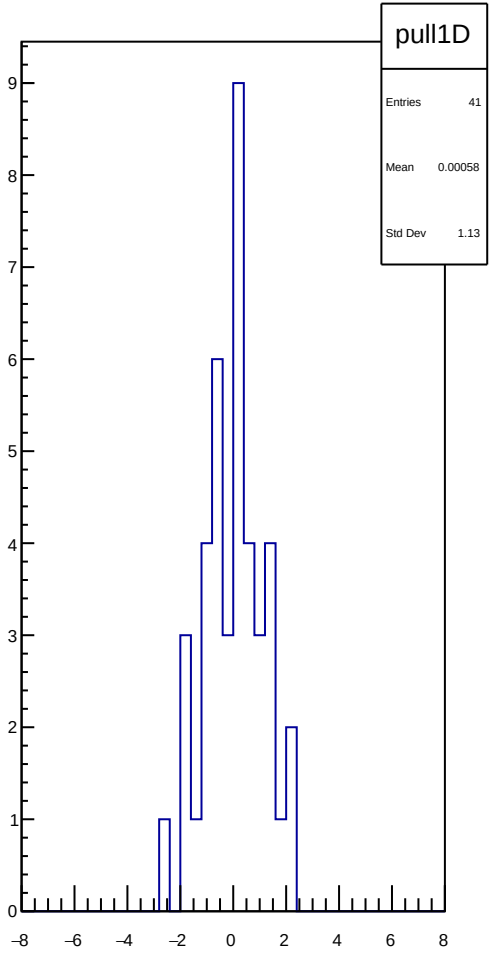

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 147.5 / 40
p0 1085 ± 1.22
1140
1120
1100
1080
1060
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

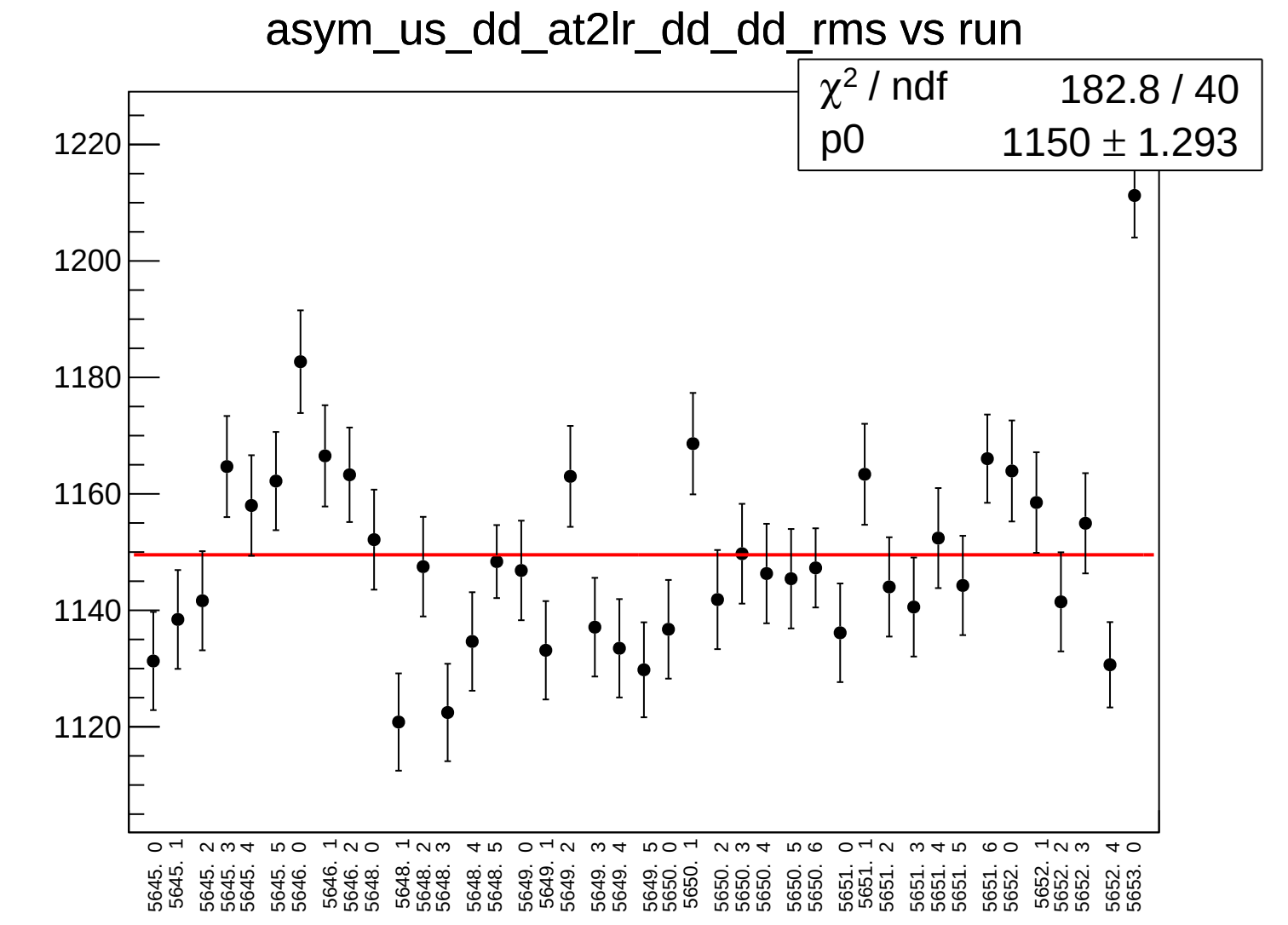

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.1 / 40
p0 −424.5 ± 564.4
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 92.21
Std Dev 21.01
2
1
0
−1
−2

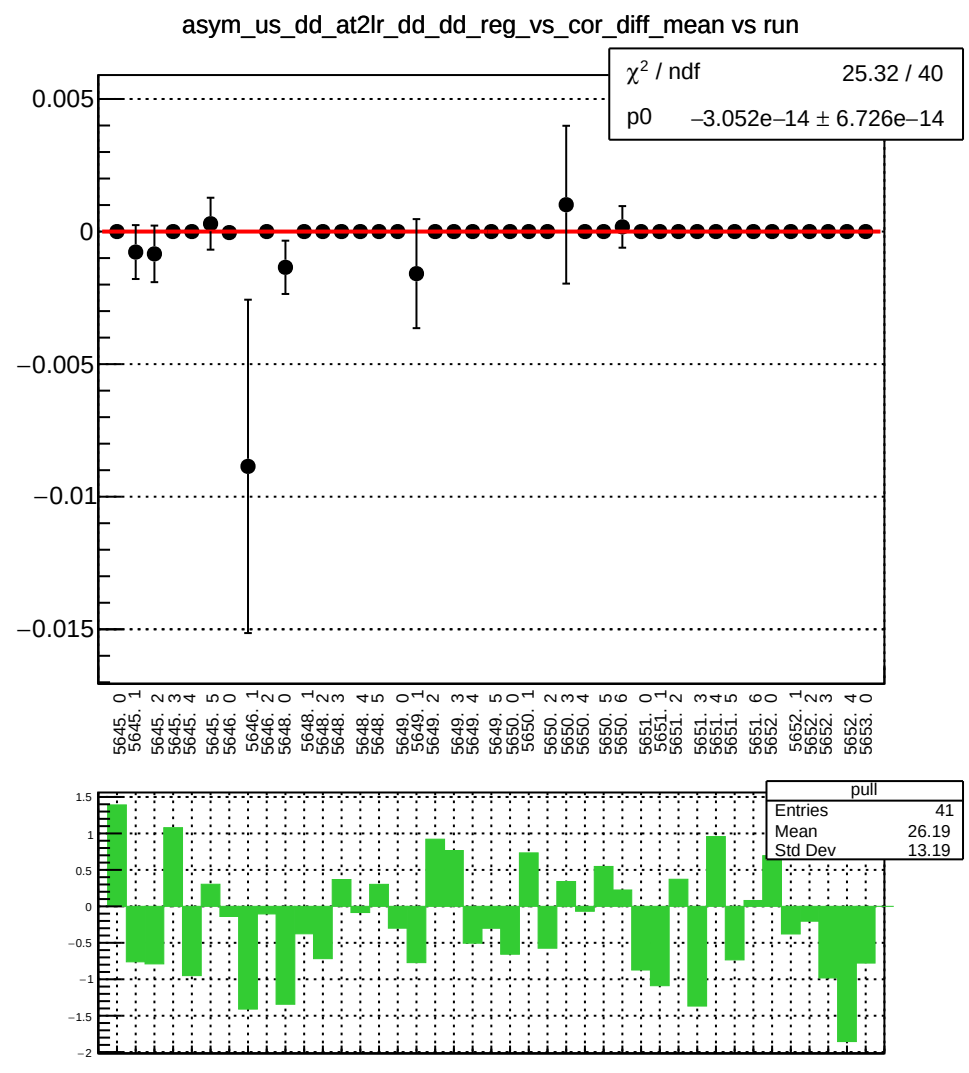

pull1D
Entries 41
Mean 0.007731
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

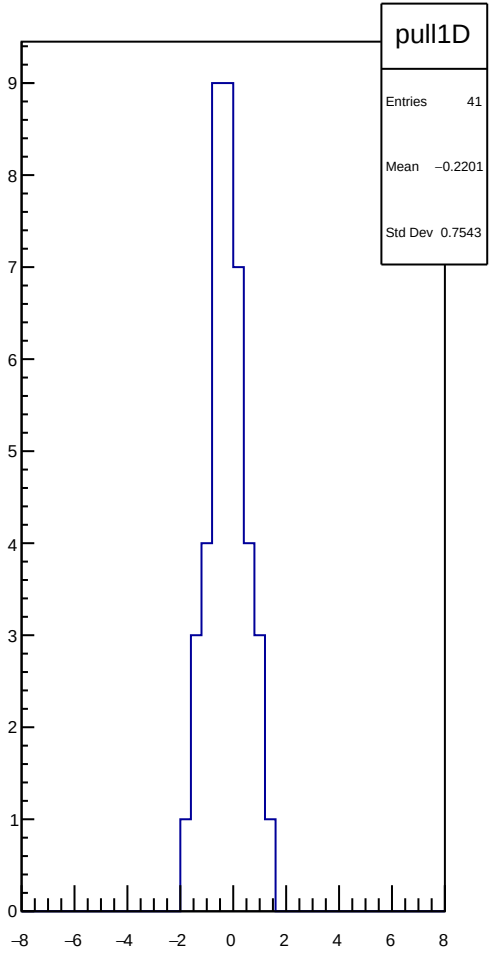

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2361 / 40
p0 354.2 ± 0.3991
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

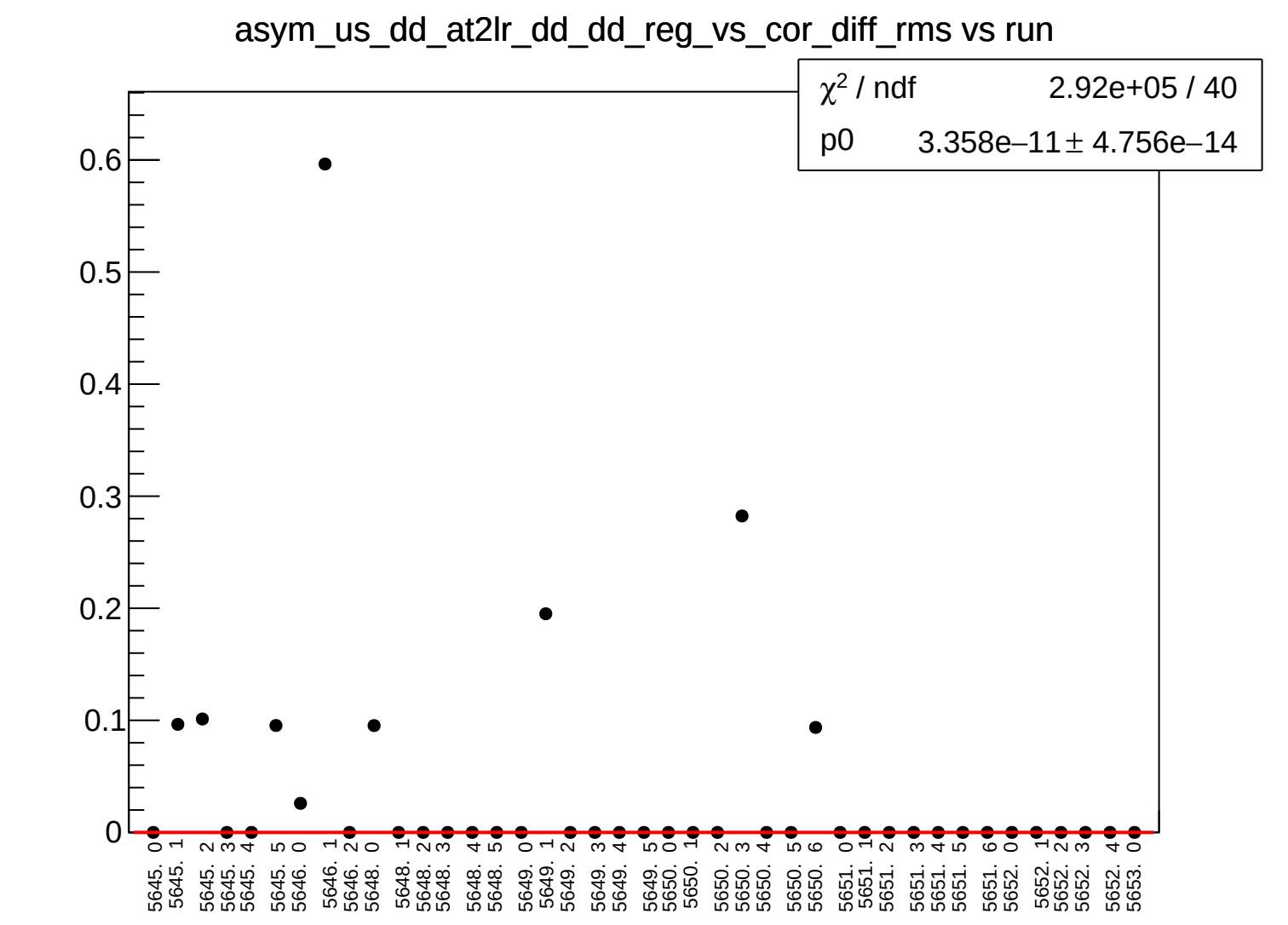

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 52.35 / 40
p0 −1672 ± 1829
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −3917
Std Dev 0
2
1
0
−1
−2

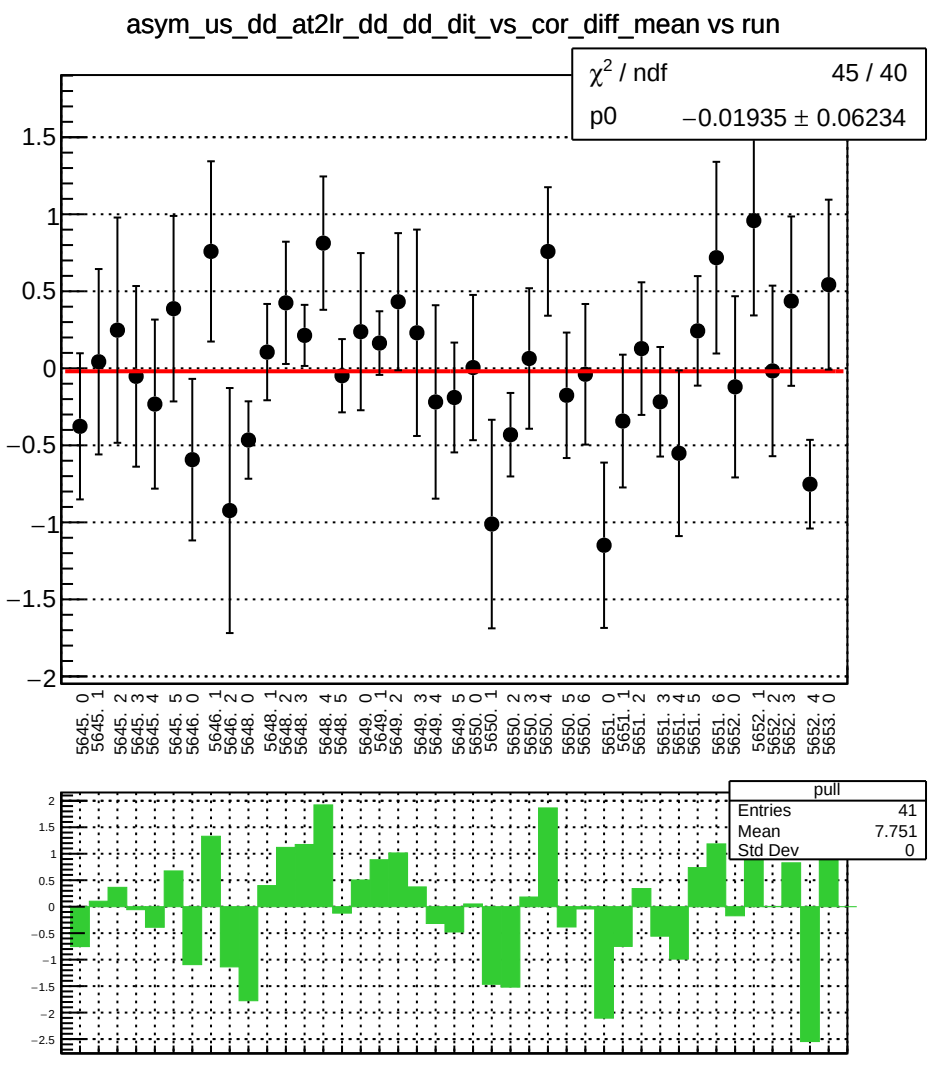

pull1D
Entries 41
Mean 0.00058
Std Dev 1.13
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

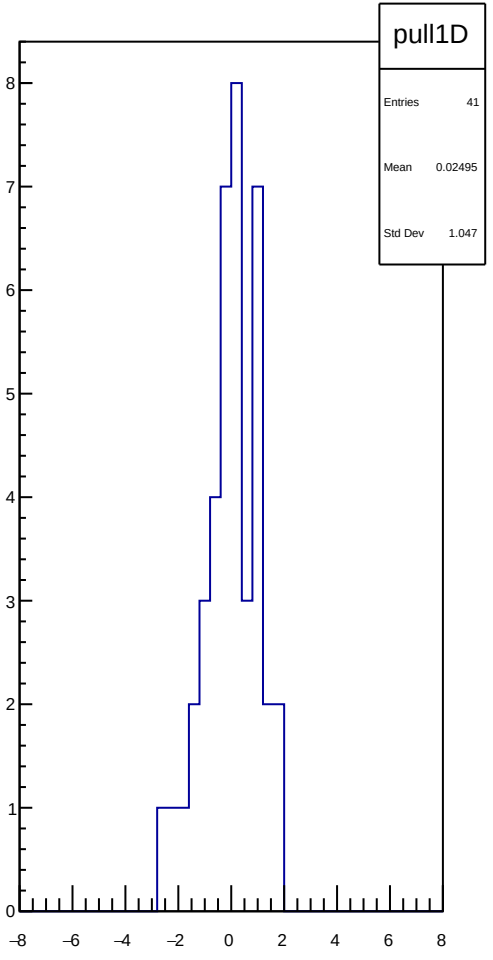

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 182.8 / 40
p0 1150 ± 1.293
1220
1200
1180
1160
1140
1120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

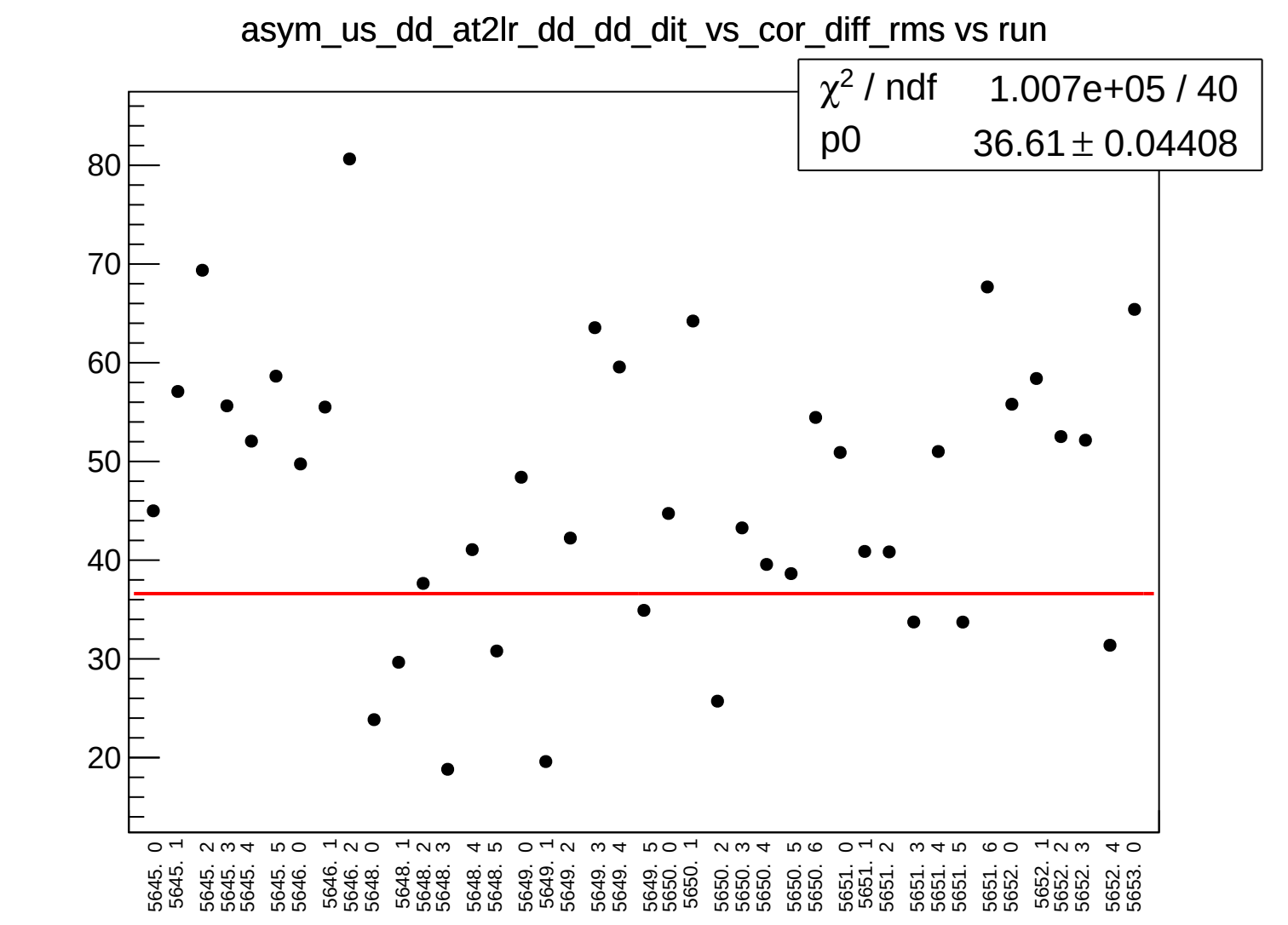

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.32 / 40
p0 −3.052e−14 ± 6.726e−14
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 26.19
Std Dev 13.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2

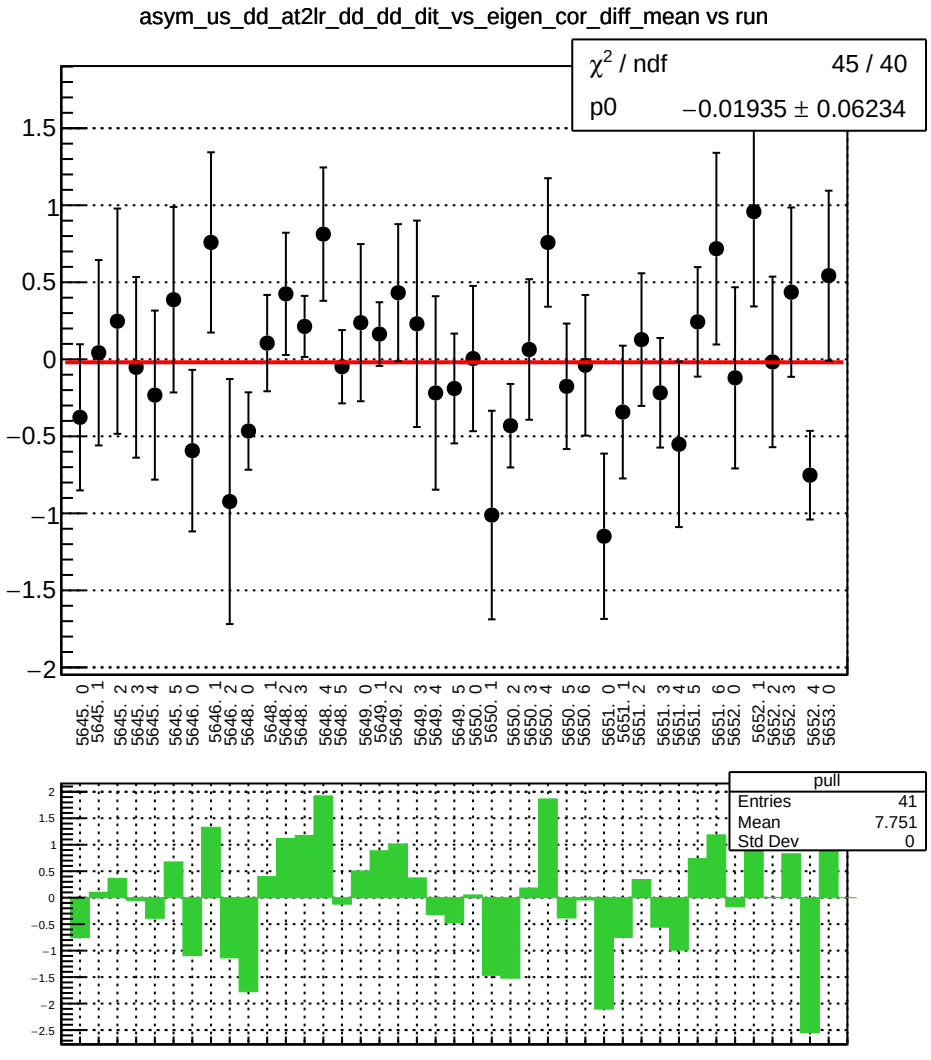

pull1D
Entries 41
Mean −0.2201
Std Dev 0.7543
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

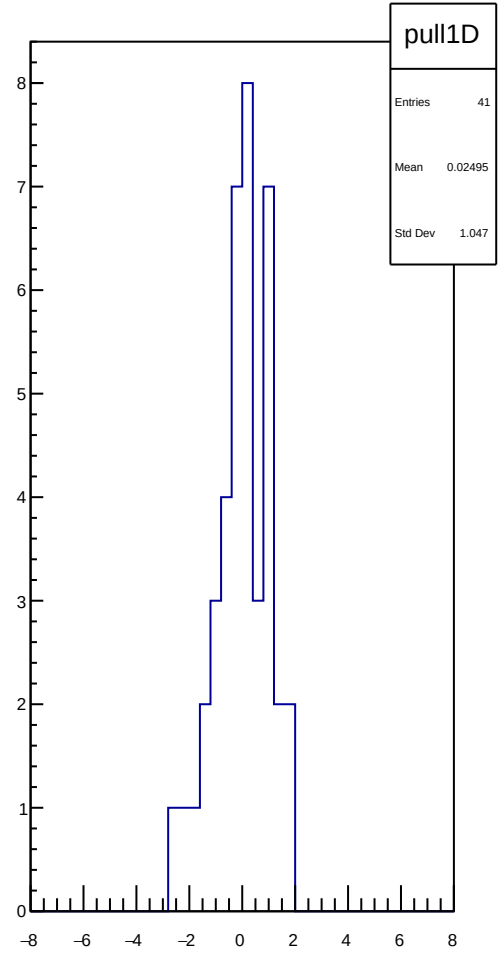

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.92e+05 / 40
p0 3.358e−11 ± 4.756e−14
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

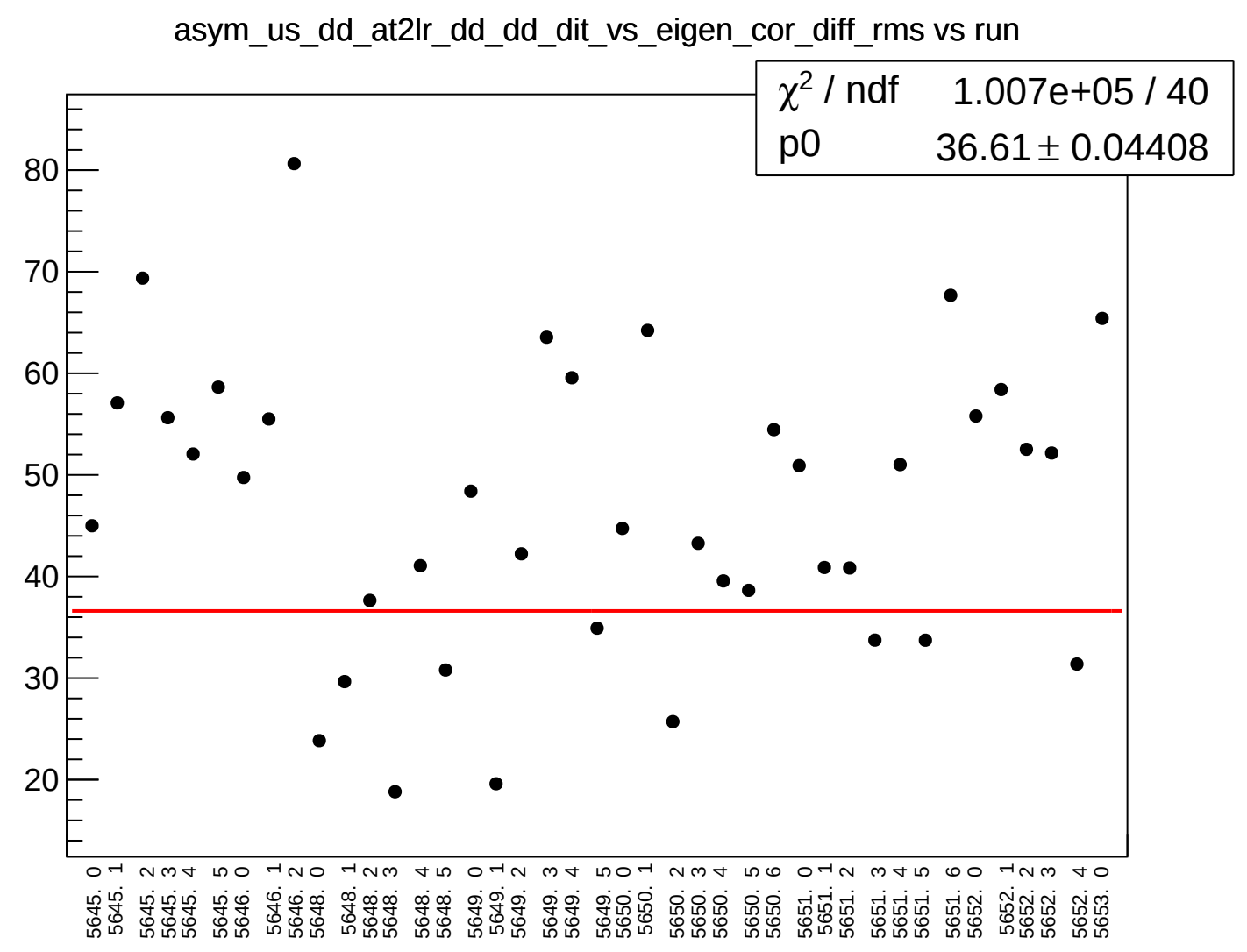

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45 / 40
p0 −0.01935 ± 0.06234
pull
Entries 41
Mean 7.751
Std Dev 0

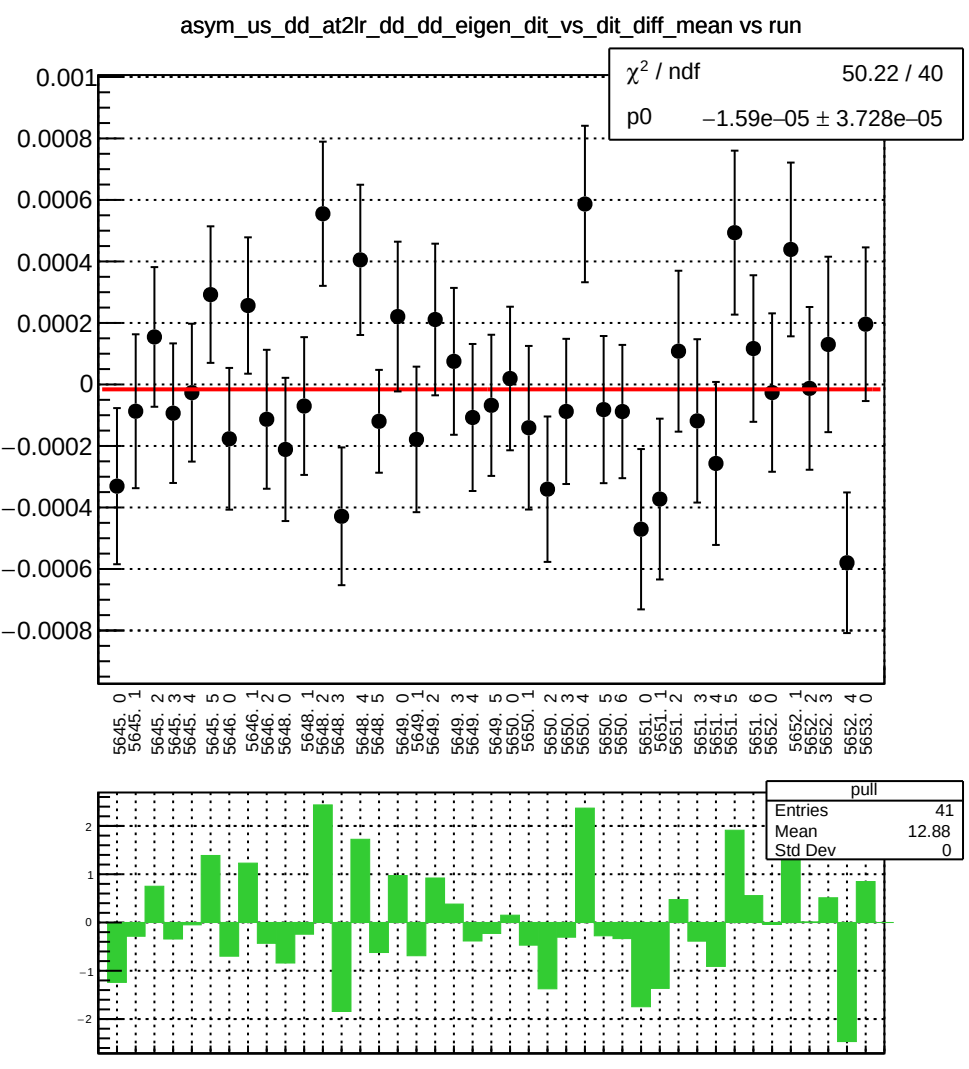

pull1D
Entries 41
Mean 0.02495
Std Dev 1.047

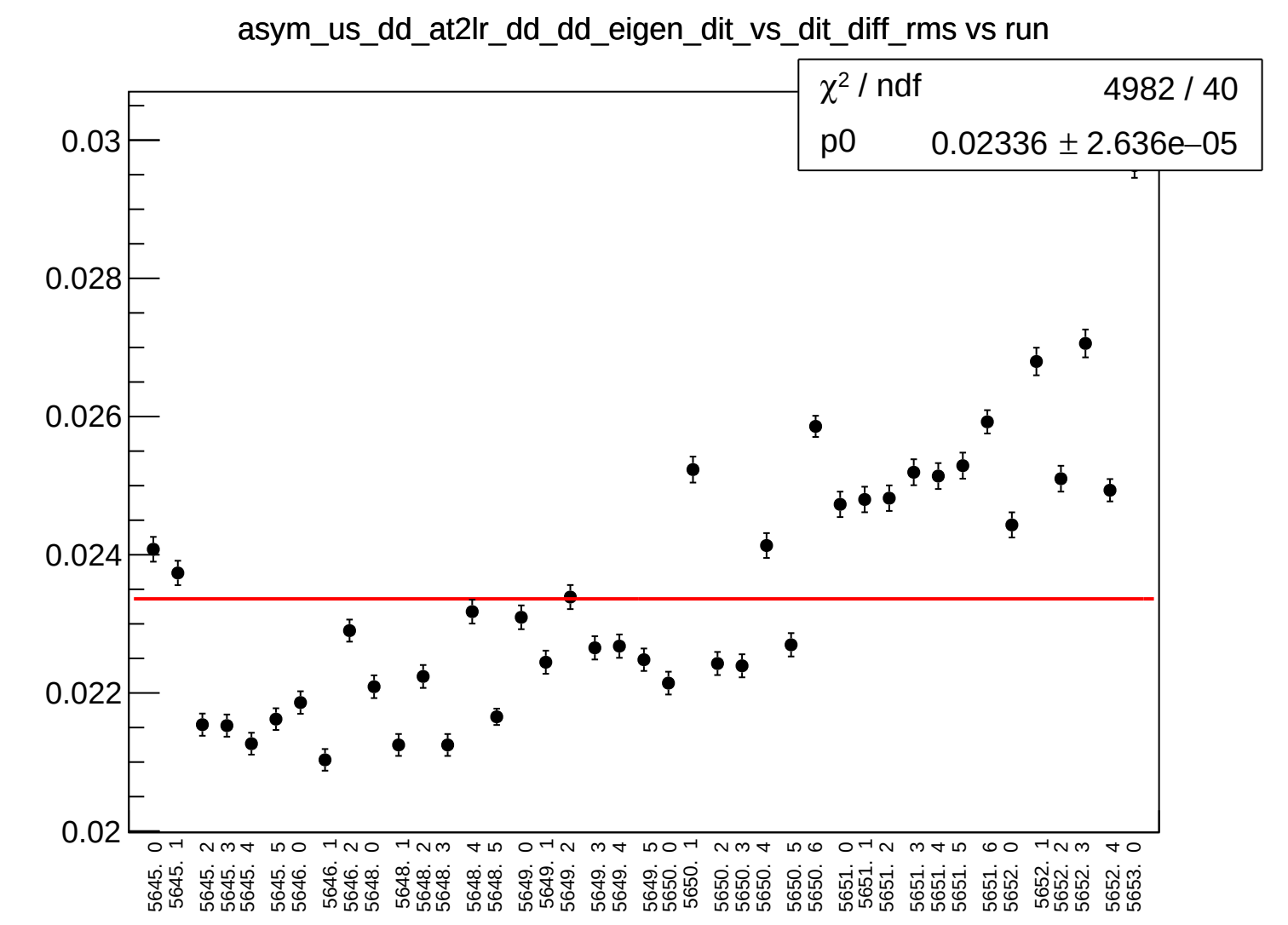

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 40
p0 36.61 ± 0.04408
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

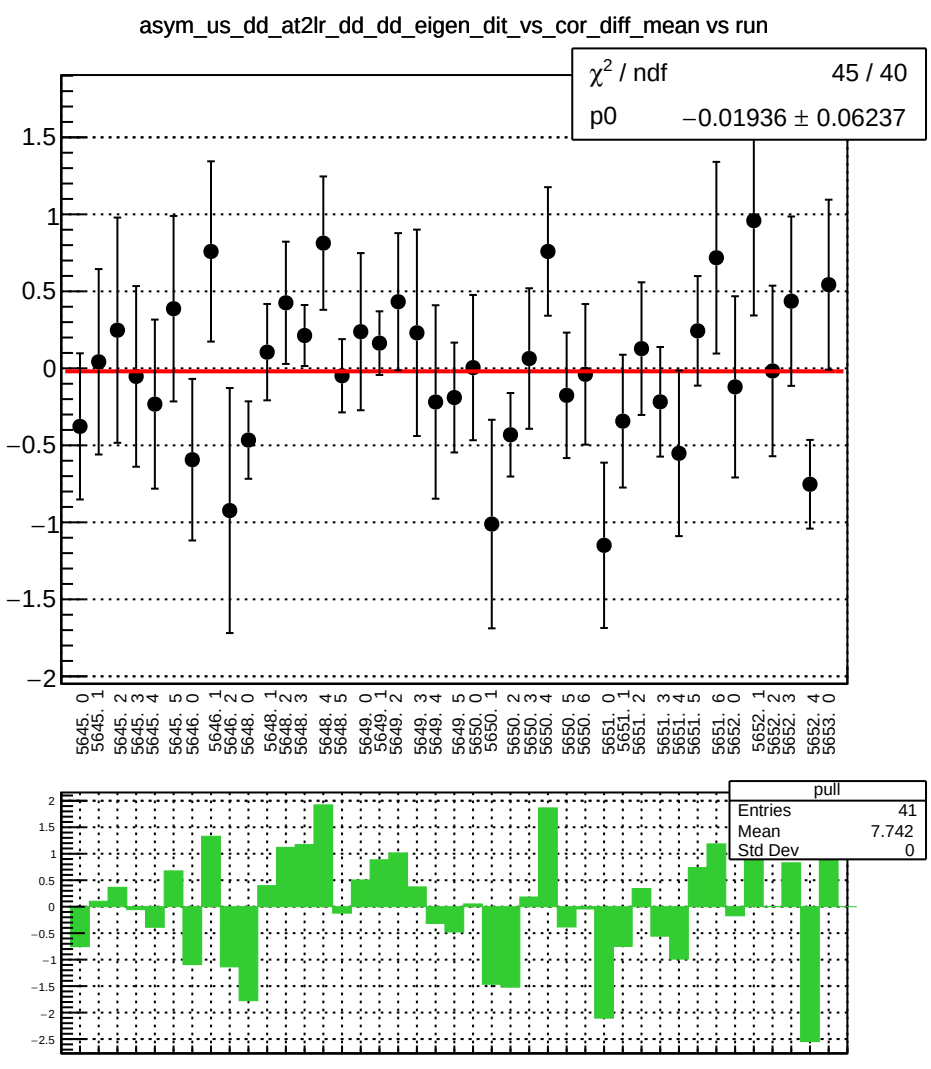

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45 / 40
p0 −0.01935 ± 0.06234
pull
Entries 41
Mean 7.751
Std Dev 0

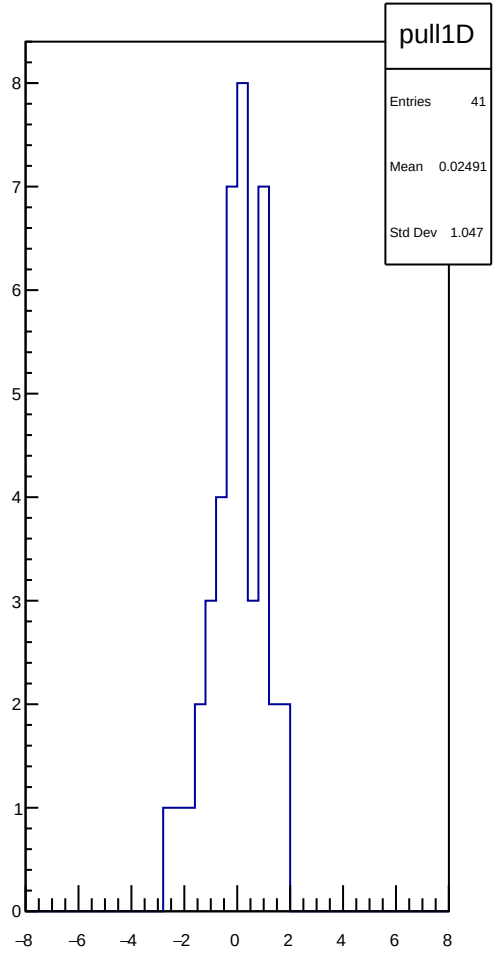

pull1D
Entries 41
Mean 0.02495
Std Dev 1.047

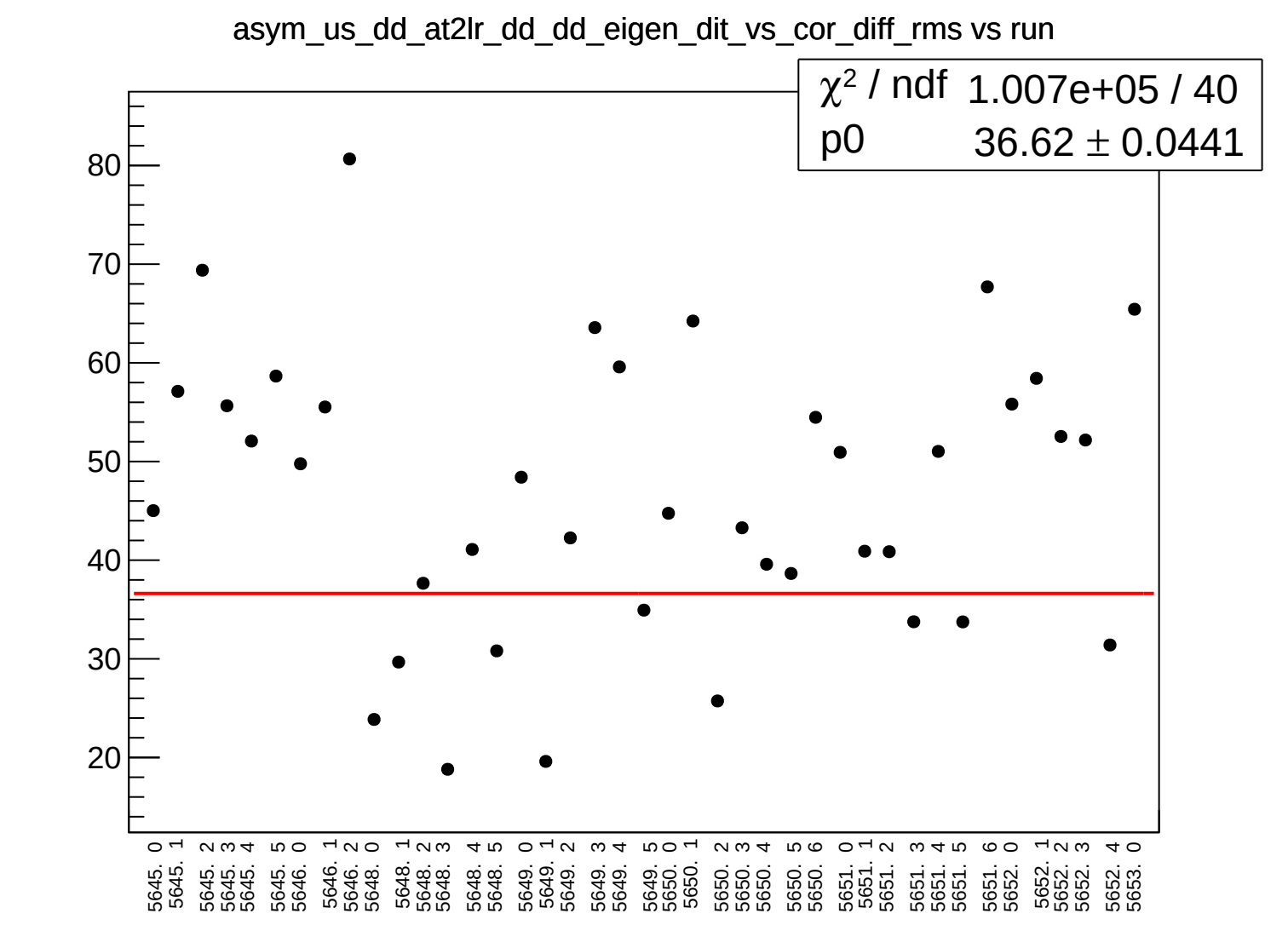

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 40
p0 36.61 ± 0.04408
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

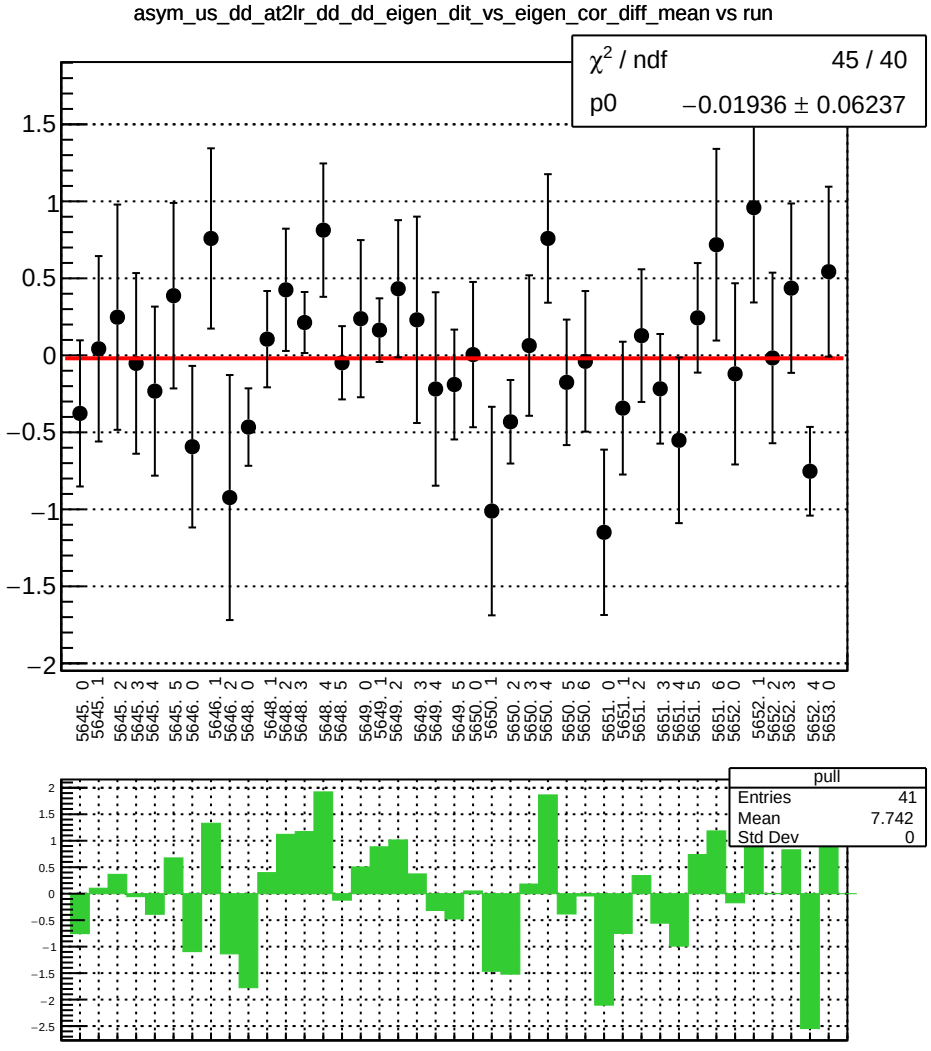

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.22 / 40
p0 −1.59e−05 ± 3.728e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01698
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

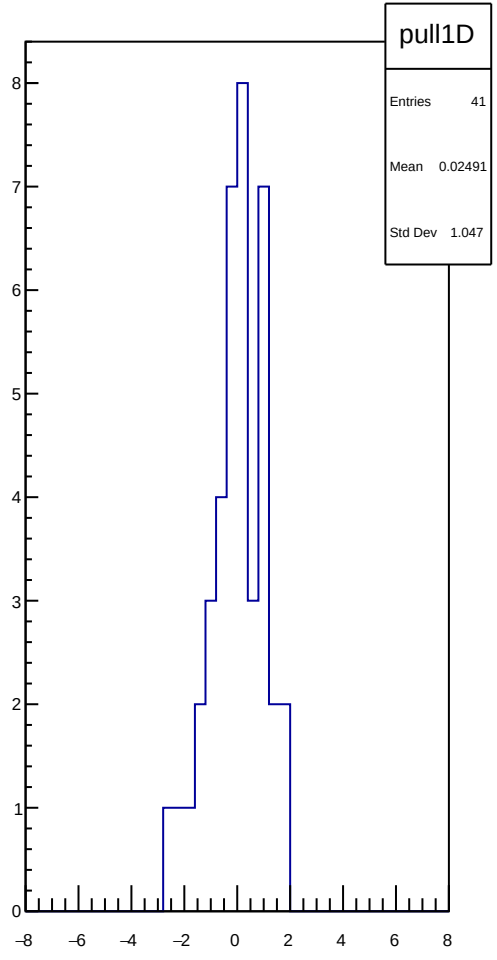

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4982 / 40
p0 0.02336 ± 2.636e−05
0.03
0.028
0.026
0.024
0.022
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

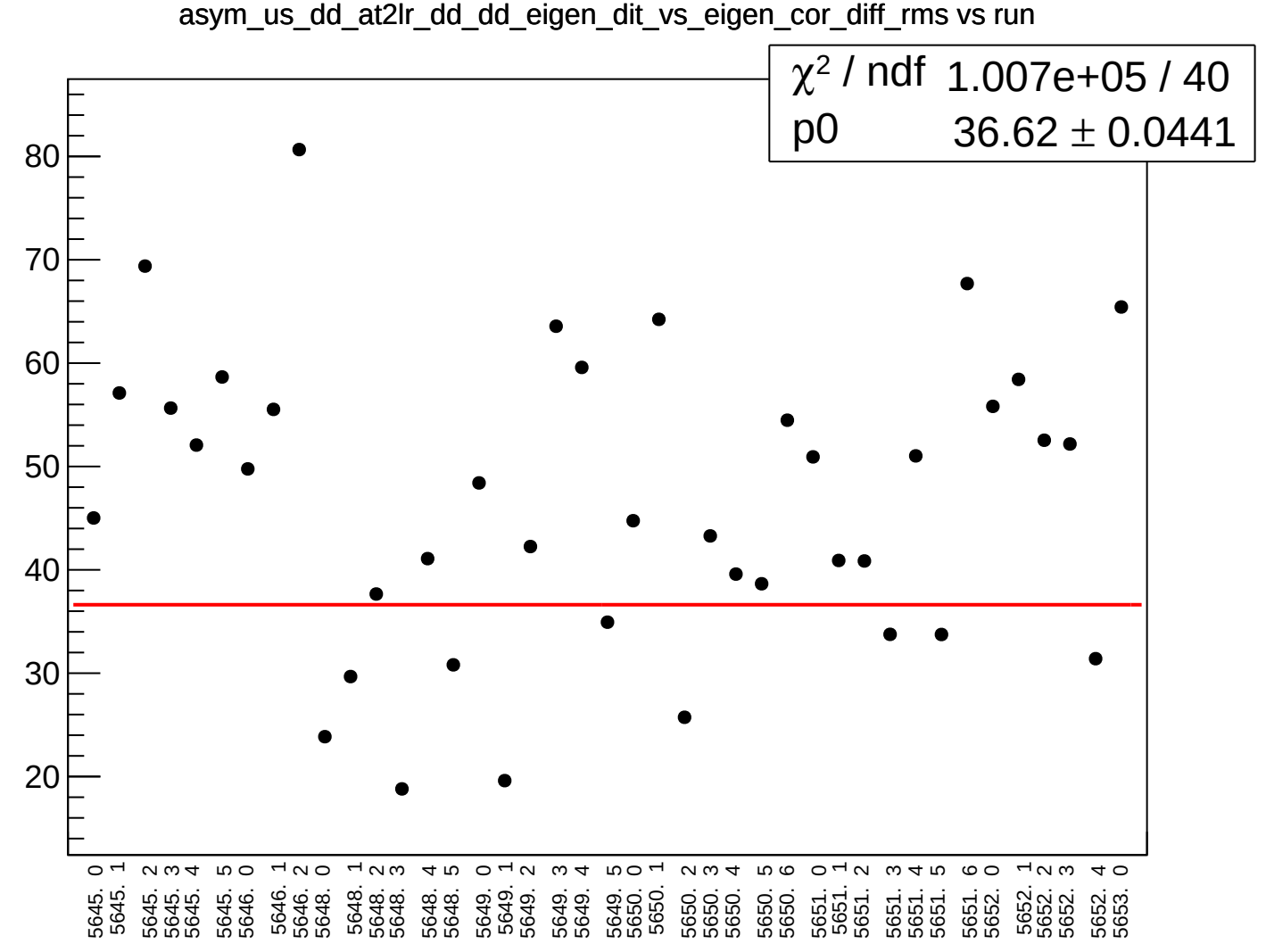

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45 / 40
p0 −0.01936 ± 0.06237
pull
Entries 41
Mean 7.742
Std Dev 0

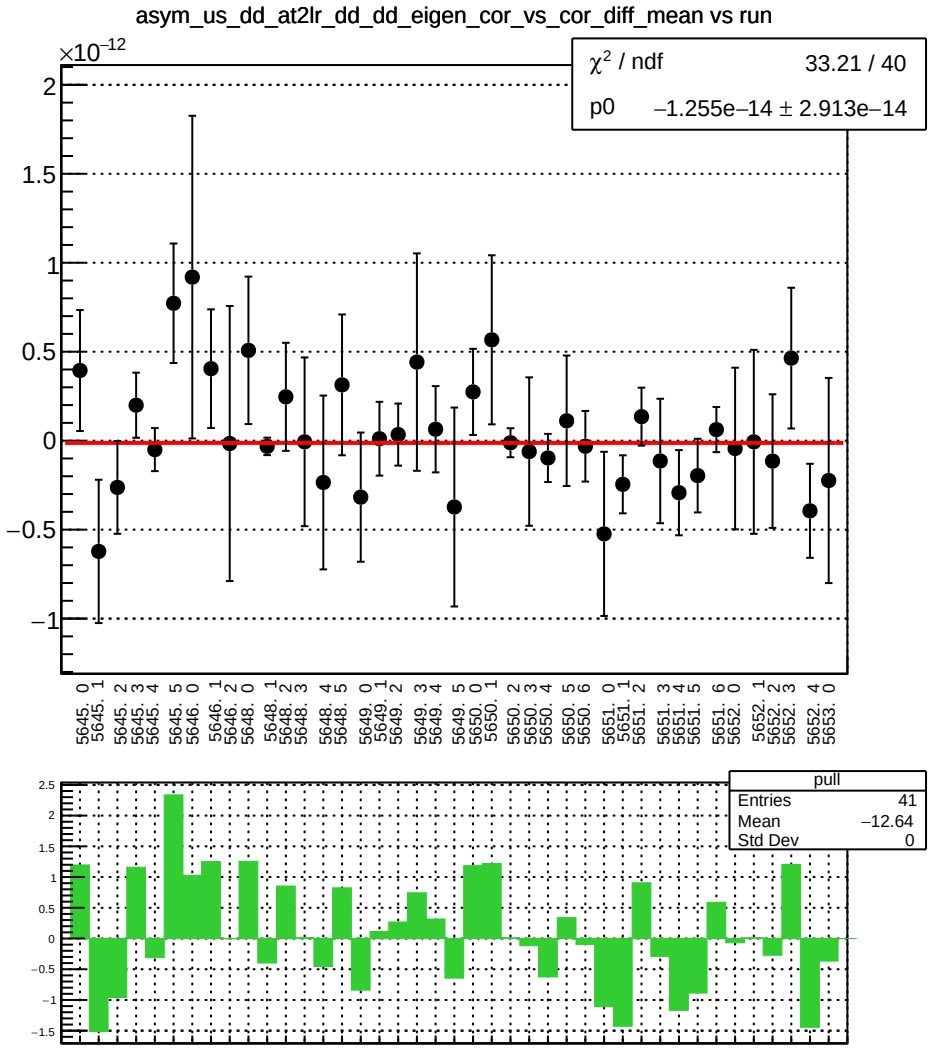

pull1D
Entries 41
Mean 0.02491
Std Dev 1.047

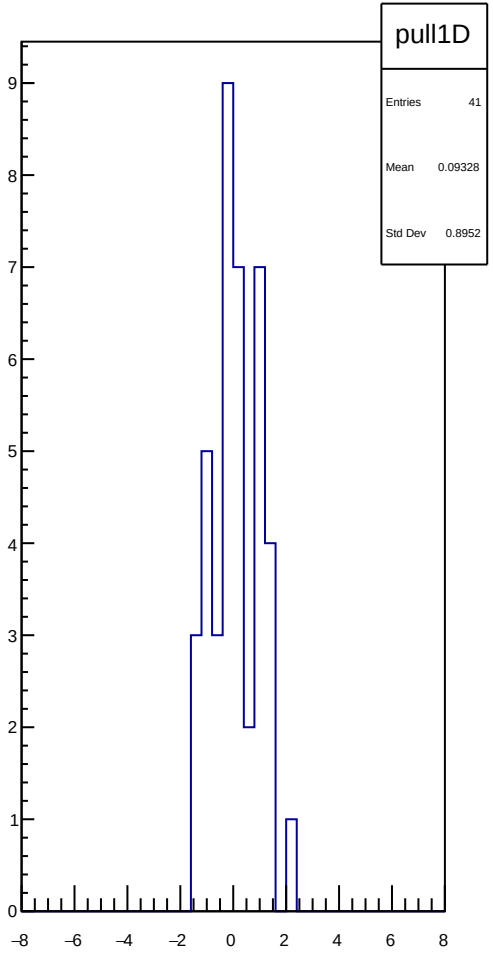

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 40
p0 36.62 ± 0.0441
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

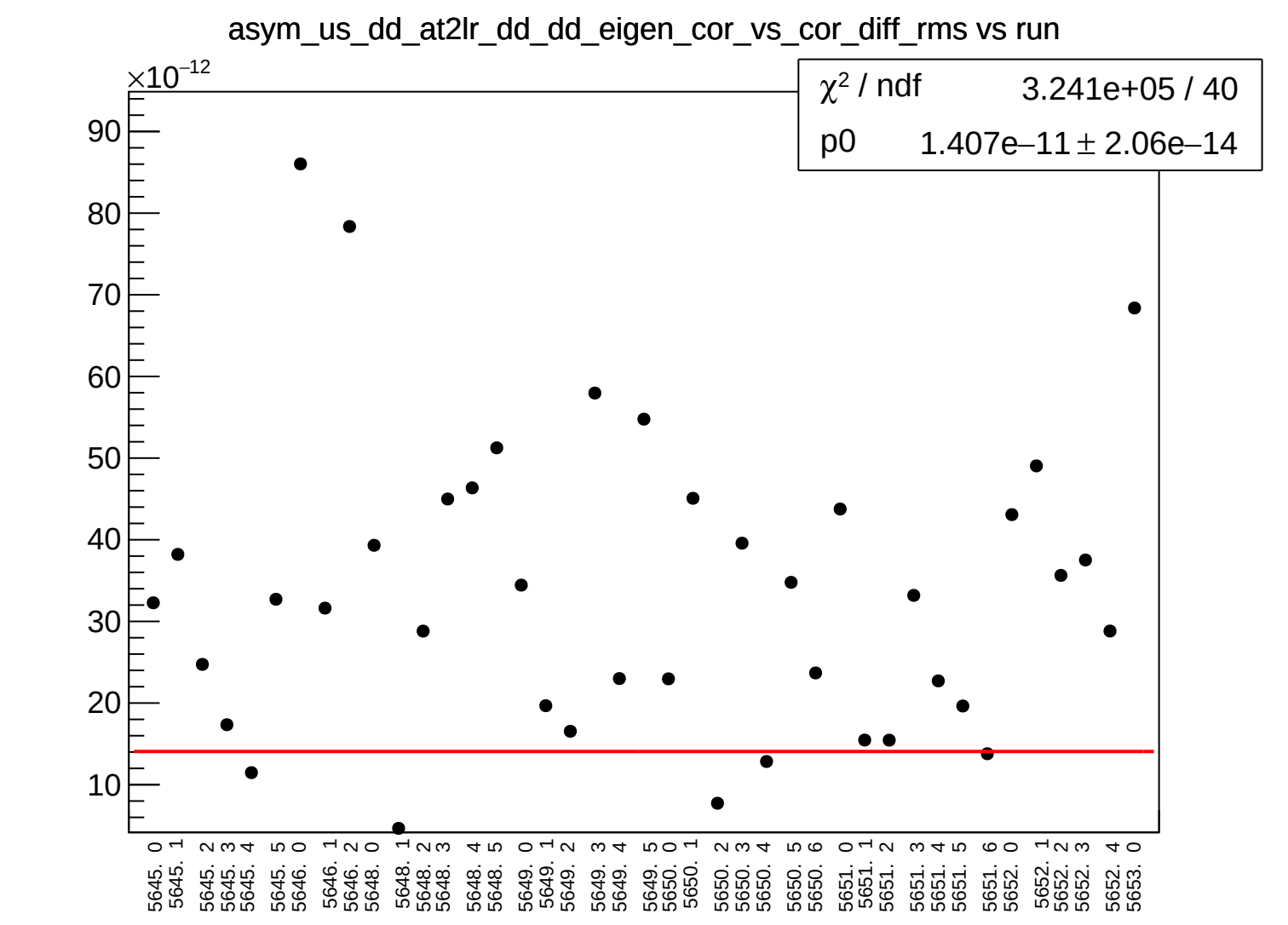

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45 / 40
p0 −0.01936 ± 0.06237
pull
Entries 41
Mean 7.742
Std Dev 0

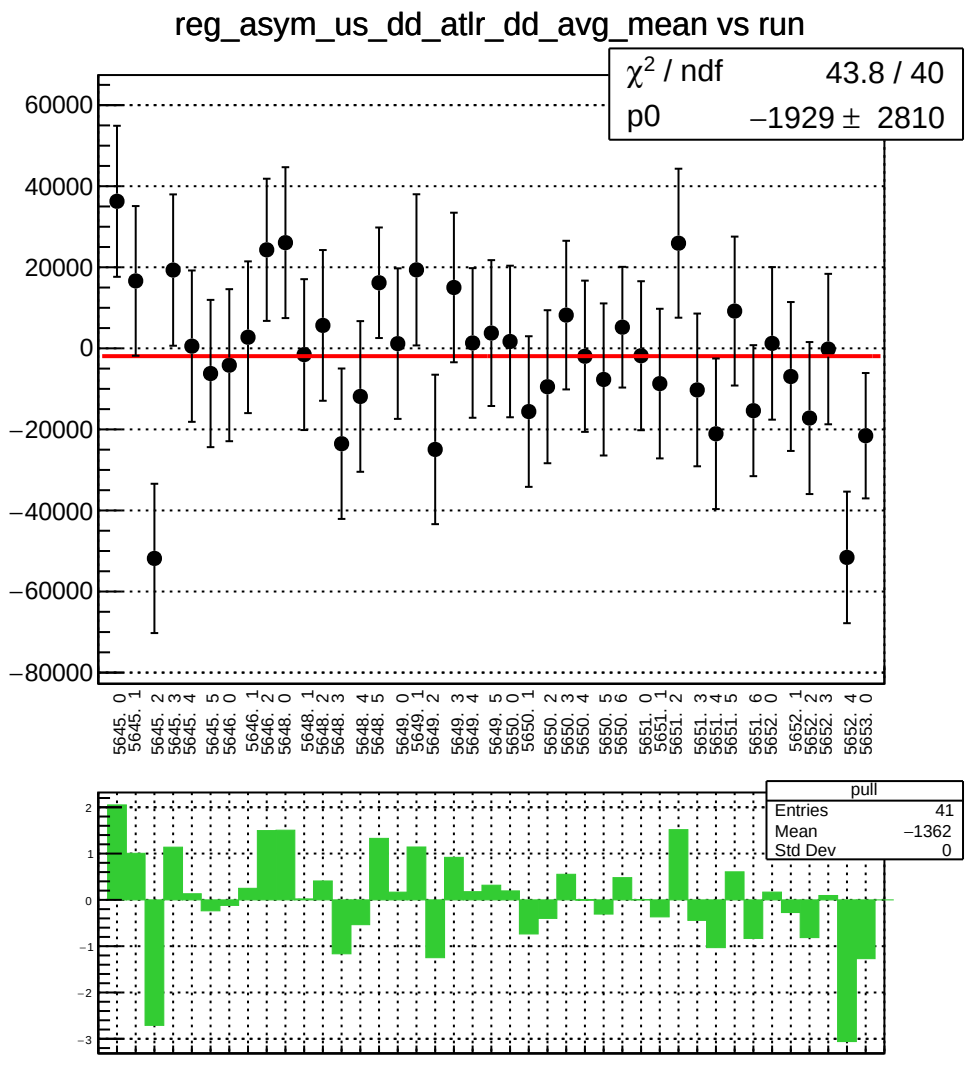

pull1D
Entries 41
Mean 0.02491
Std Dev 1.047

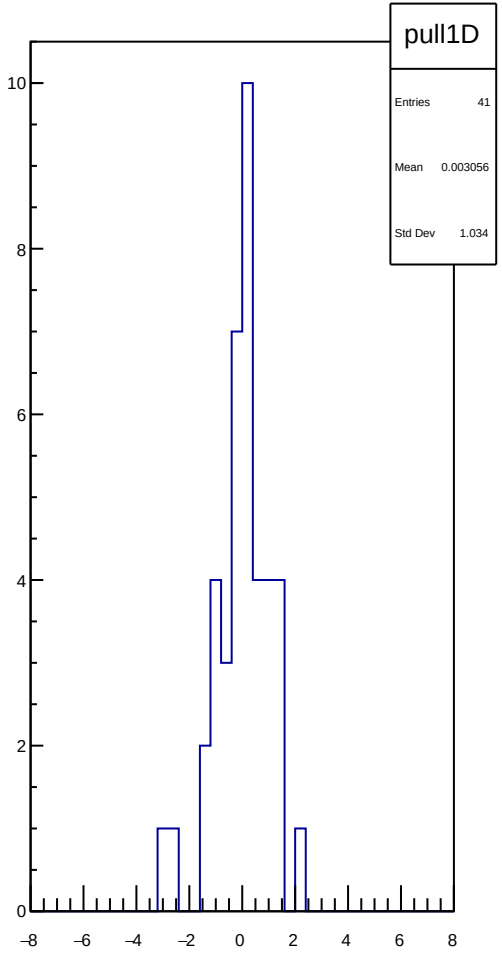

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.007e+05 / 40
p0 36.62 ± 0.0441
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

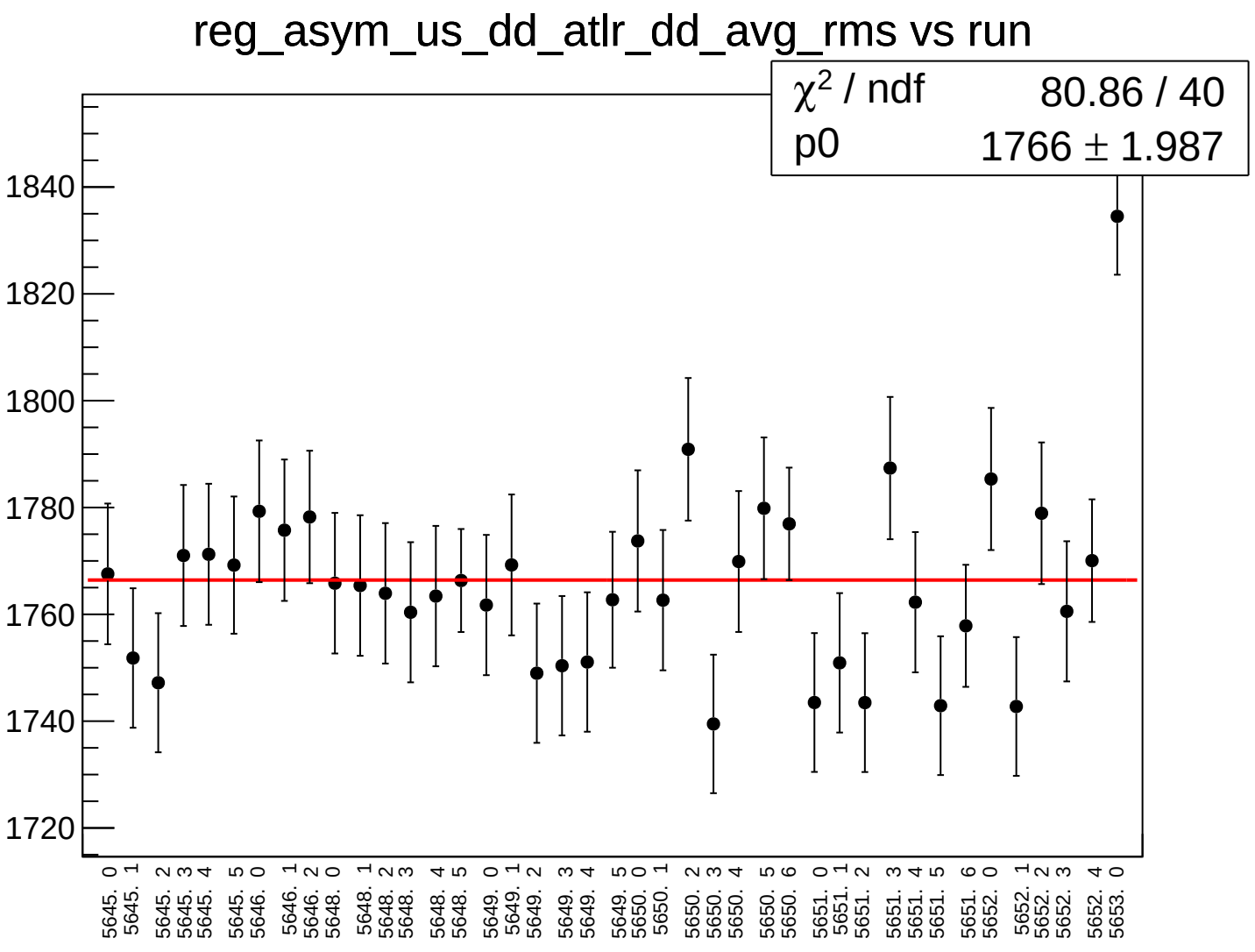

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.21 / 40
p0 −1.255e−14 ± 2.913e−14
pull
Entries 41
Mean −12.64
Std Dev 0

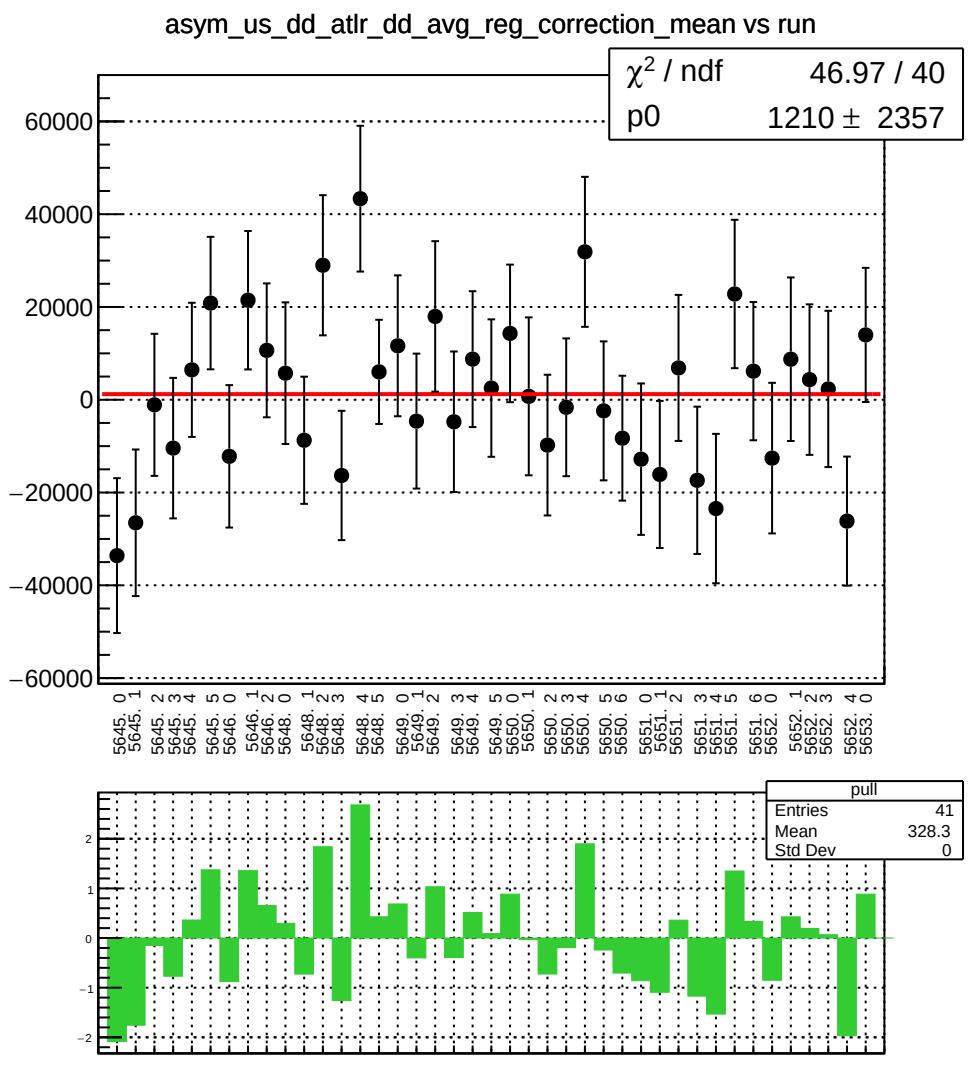

pull1D
Entries 41
Mean 0.09328
Std Dev 0.8952

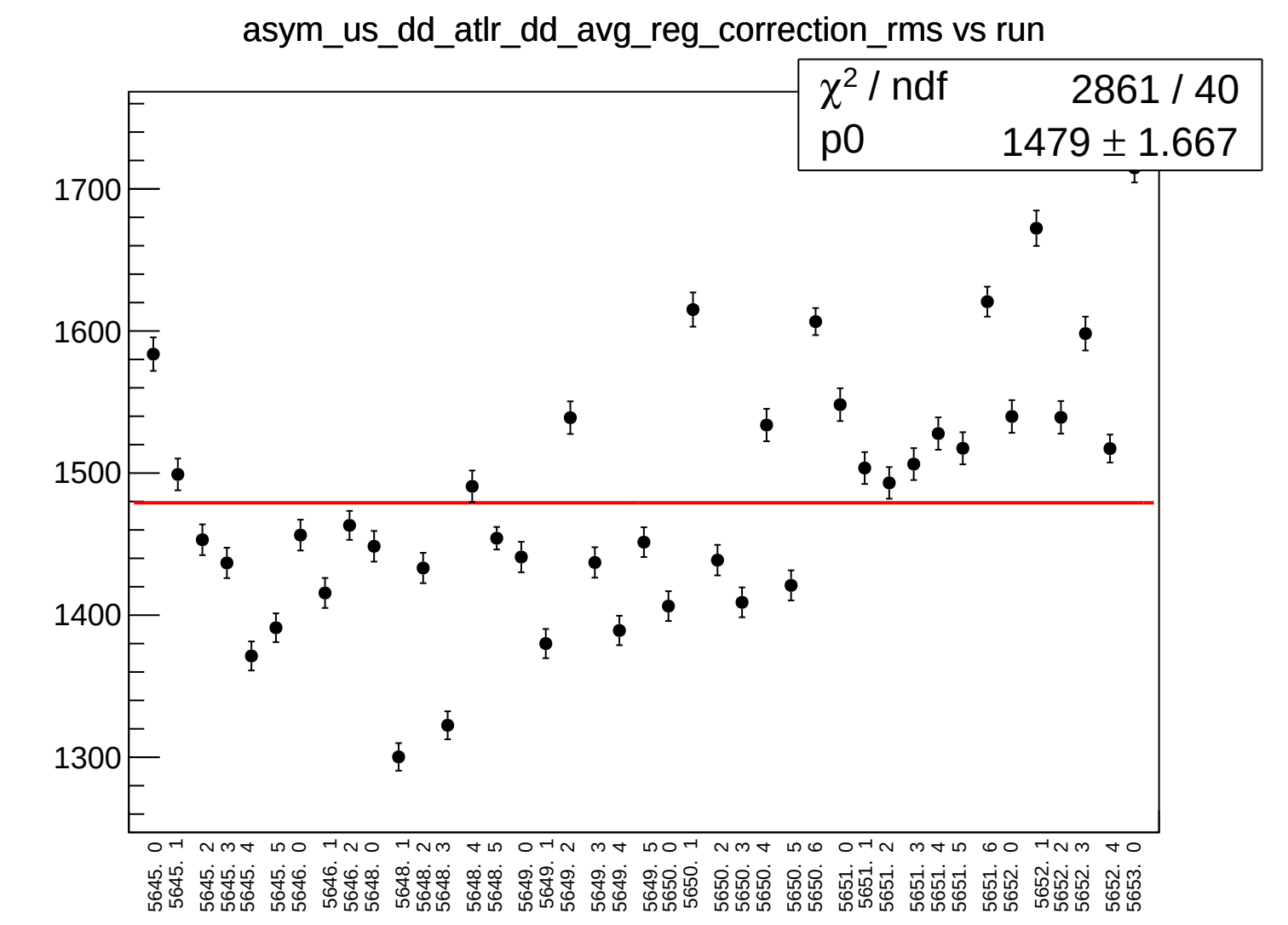

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.241e+05 / 40
p0 1.407e−11 ± 2.06e−14
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

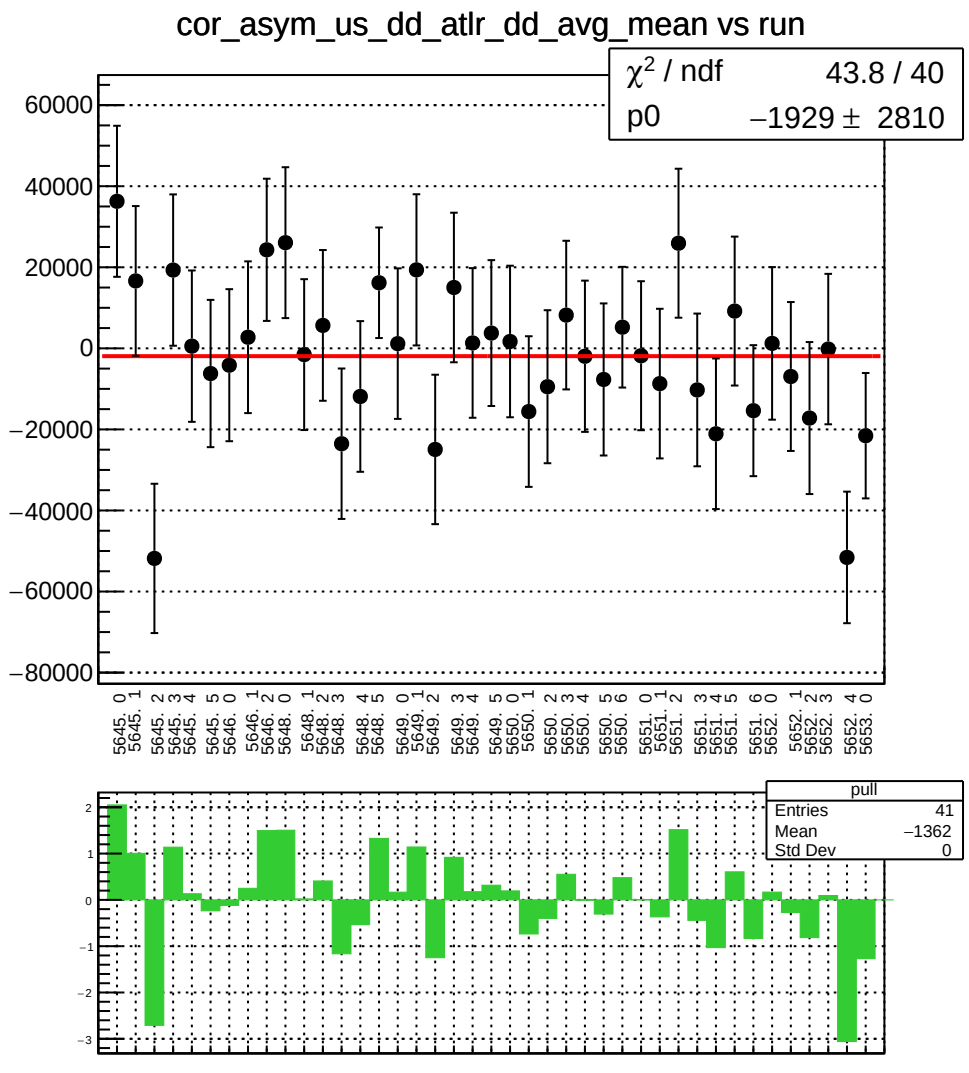

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 43.8 / 40
p0 −1929 ± 2810
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1362
Std Dev 0
2
1
0
−1
−2
−3

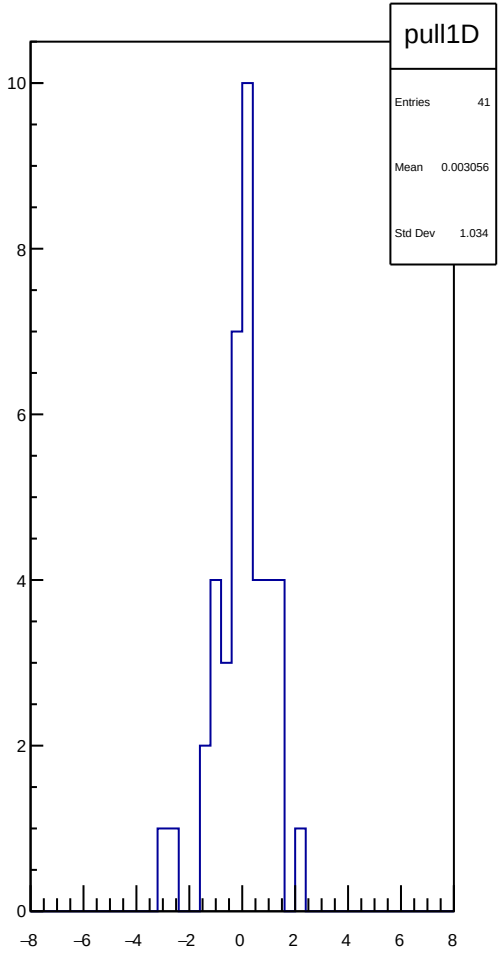

pull1D
Entries 41
Mean 0.003056
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

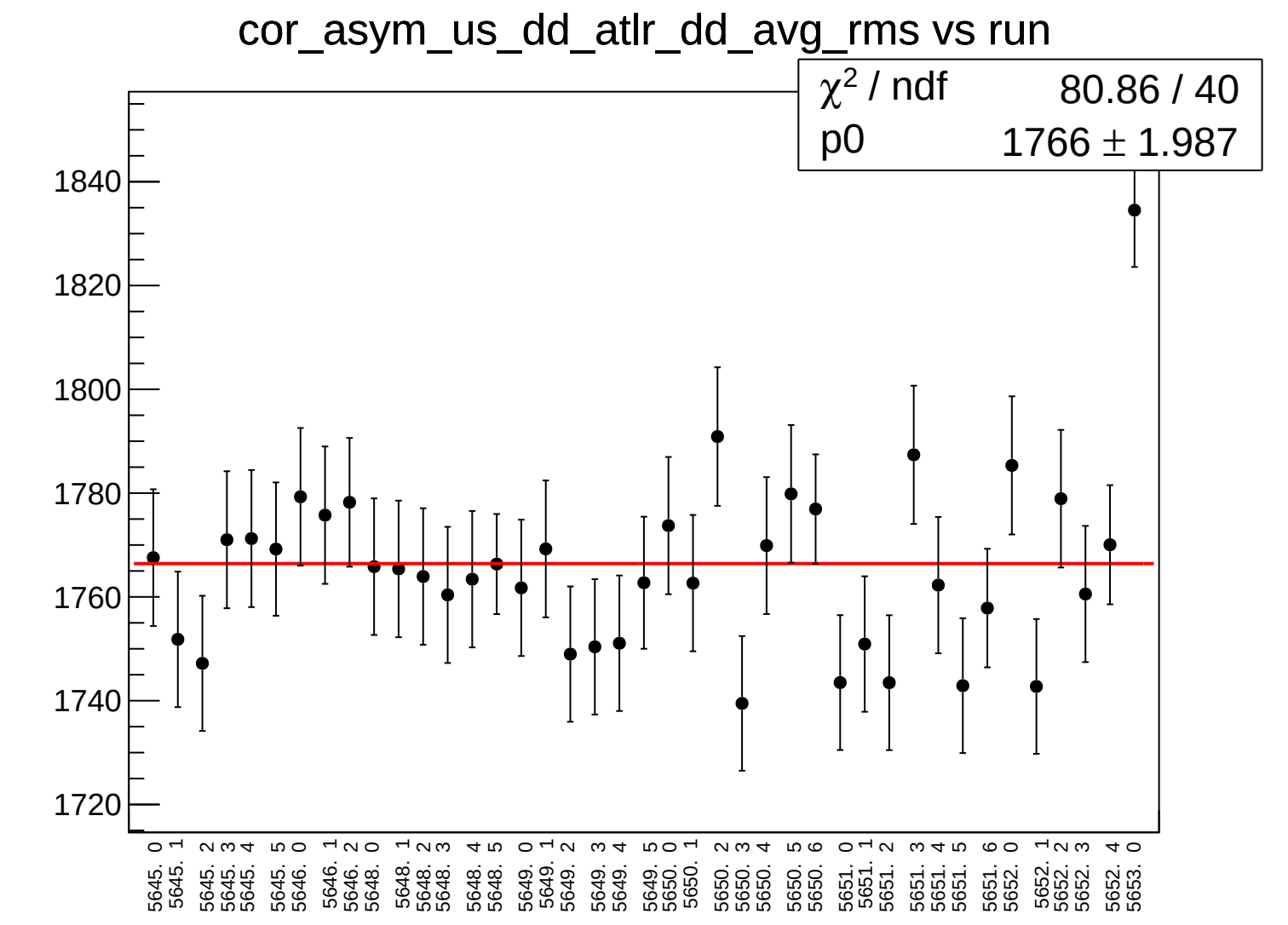

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.86 / 40
p0 1766 ± 1.987
1840
1820
1800
1780
1760
1740
1720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

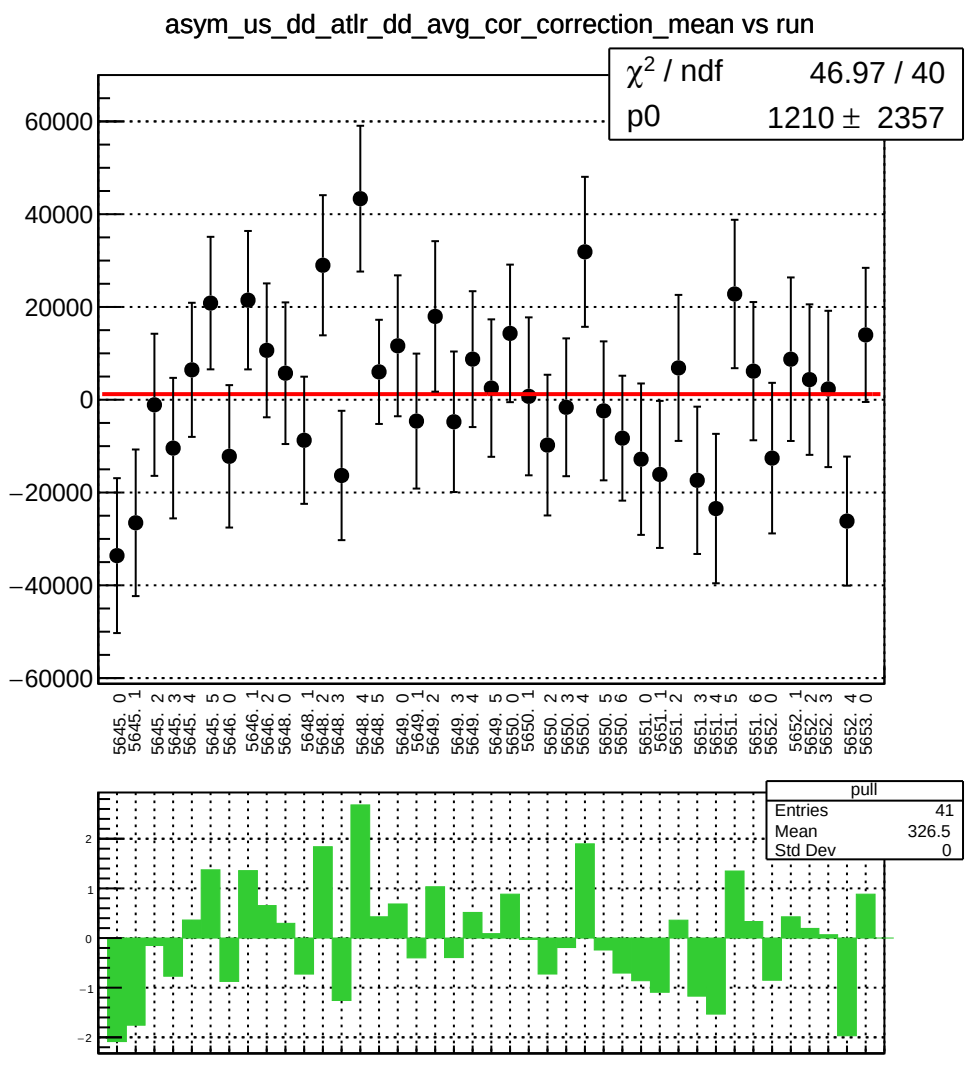

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 46.97 / 40
p0 1210 ± 2357
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 328.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.001557
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

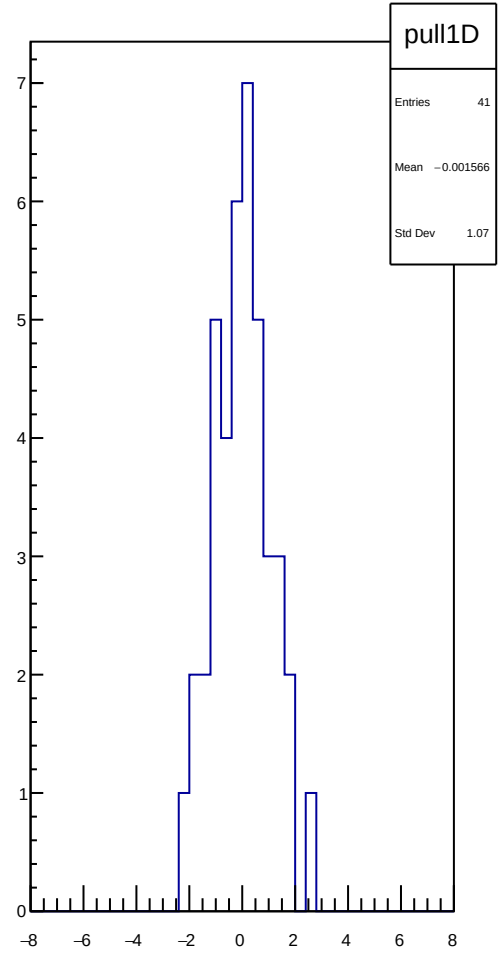

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 2861 / 40
p0 1479 ± 1.667
1700
1600
1500
1400
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

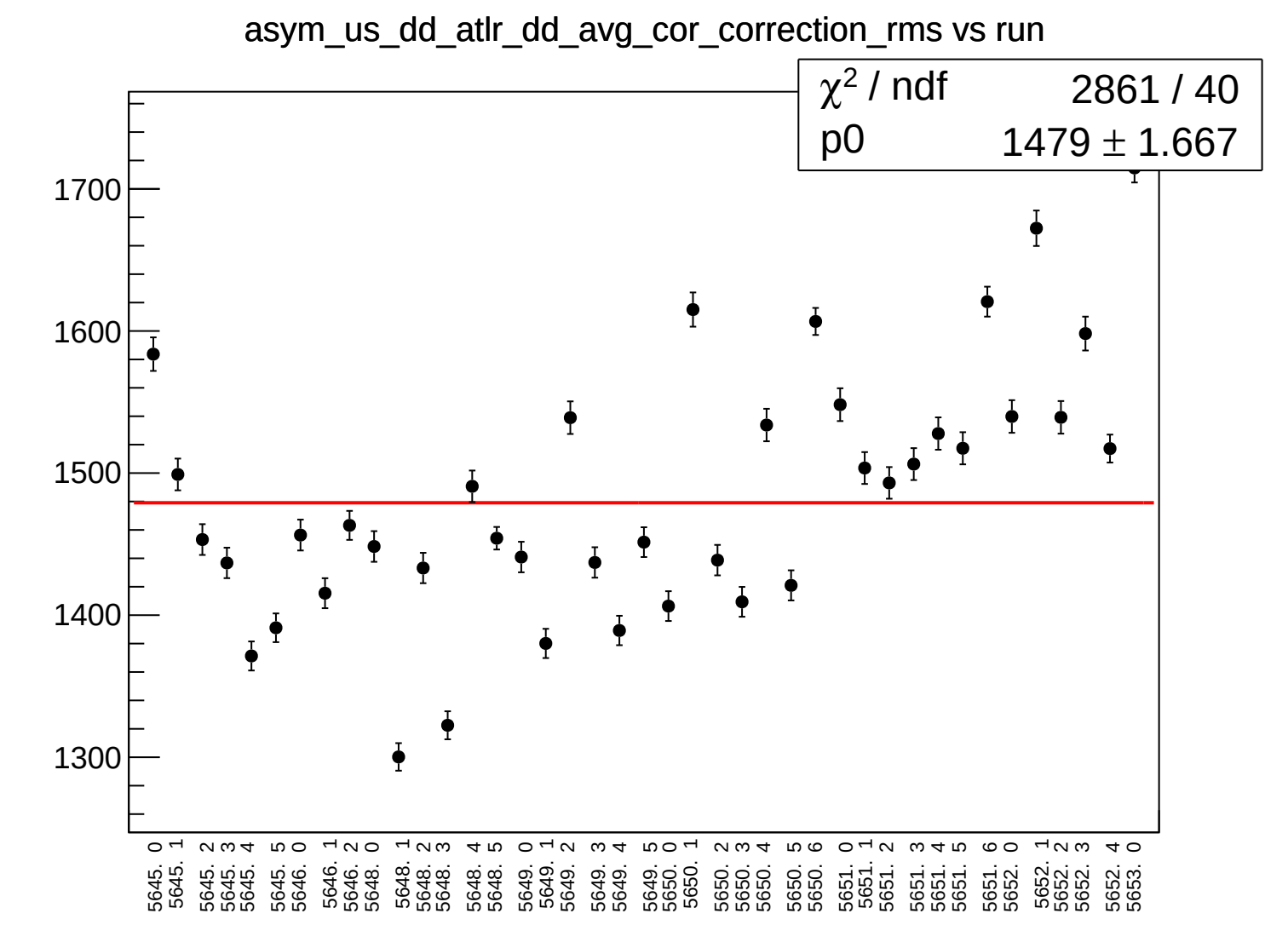

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 43.8 / 40
p0 −1929 ± 2810
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1362
Std Dev 0
2
1
0
−1
−2
−3

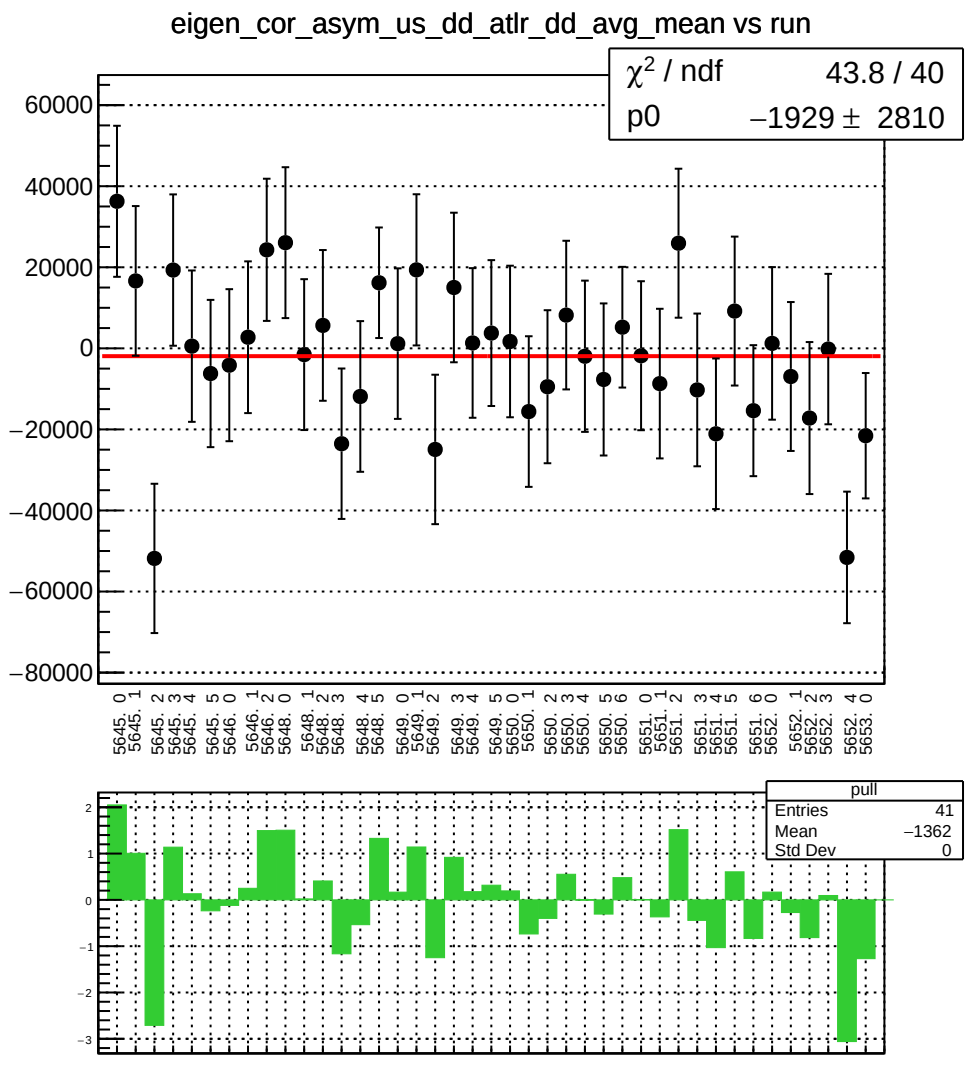

pull1D
Entries 41
Mean 0.003056
Std Dev 1.034
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

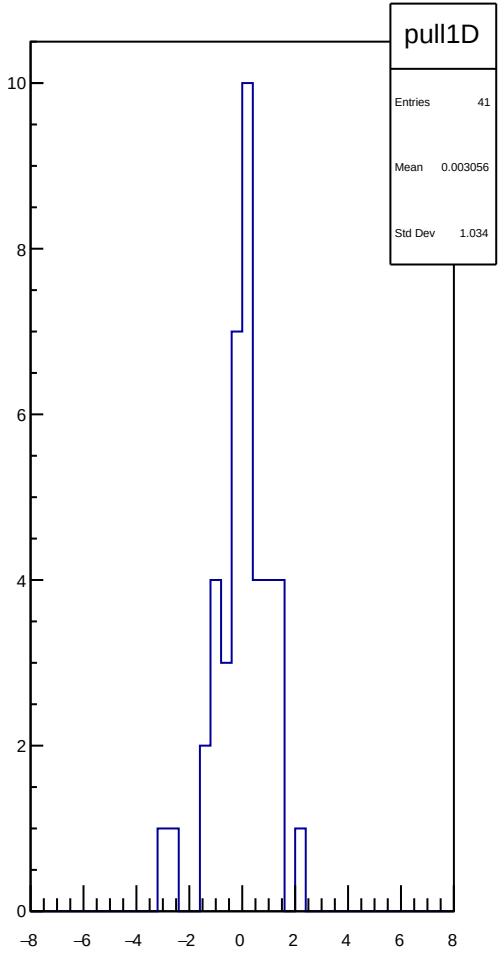

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.86 / 40
p0 1766 ± 1.987
1840
1820
1800
1780
1760
1740
1720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

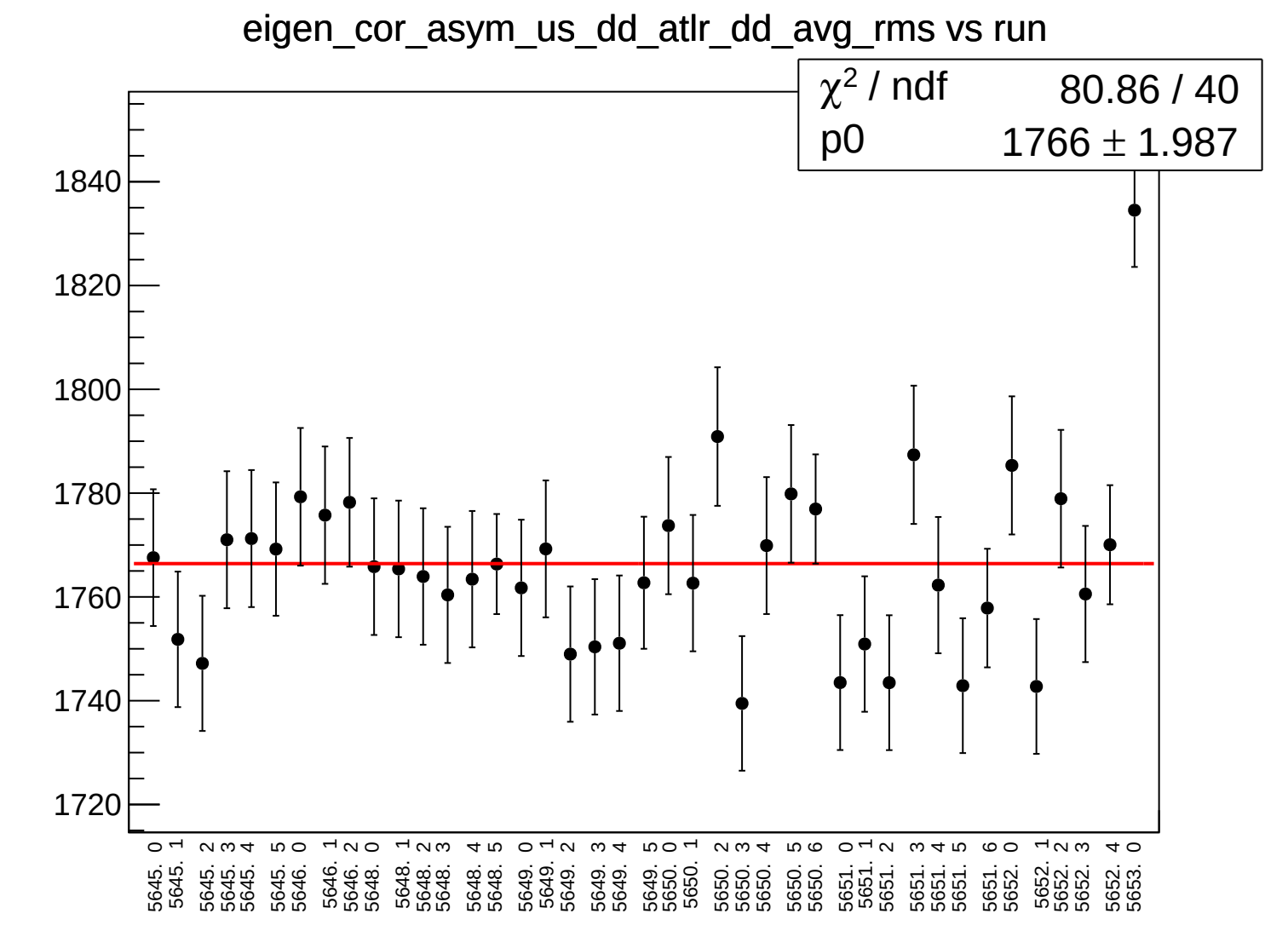

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 46.97 / 40
p0 1210 ± 2357
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 326.5
Std Dev 0
2
1
0
−1
−2

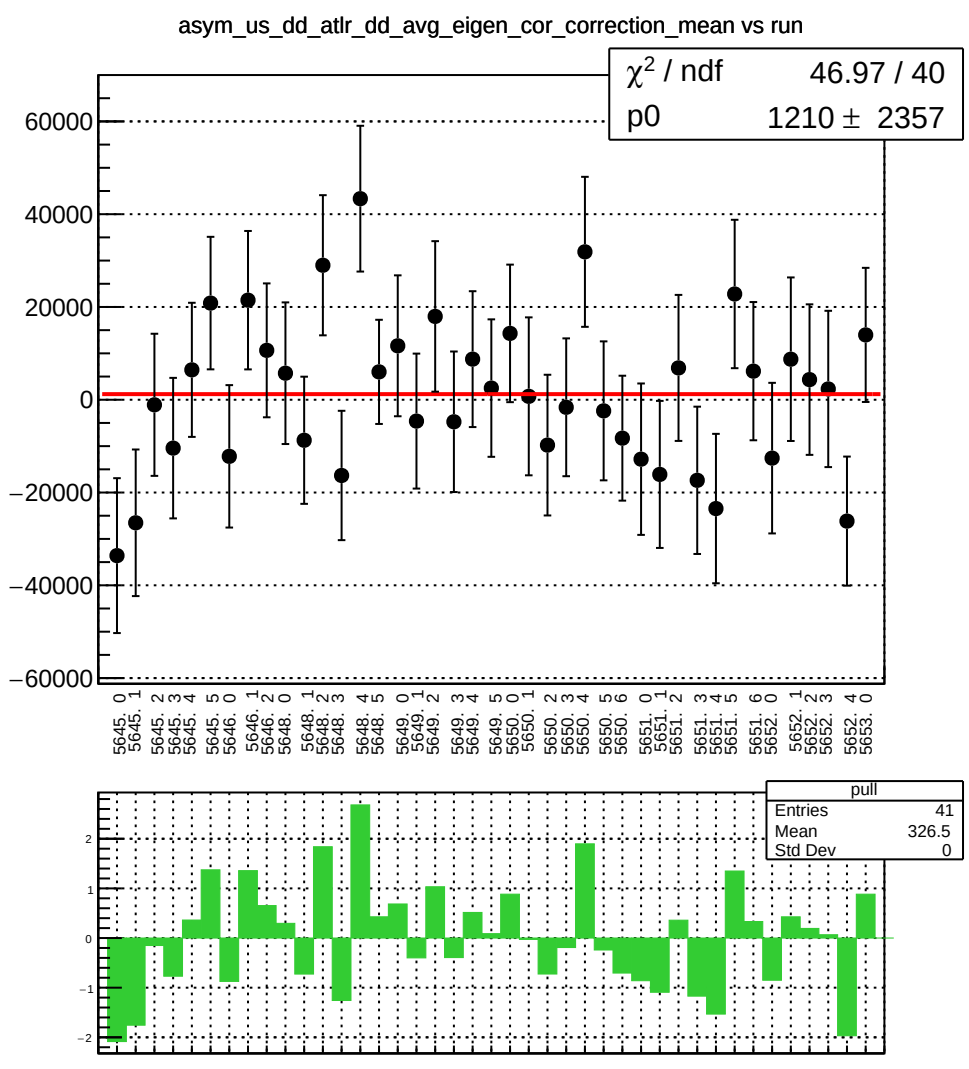

pull1D
Entries 41
Mean −0.001566
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

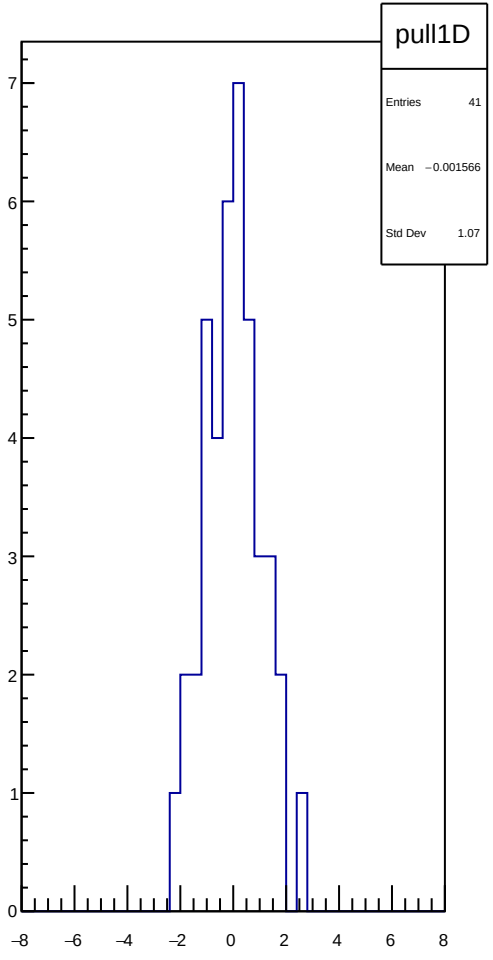

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 2861 / 40
p0 1479 ± 1.667
1700
1600
1500
1400
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

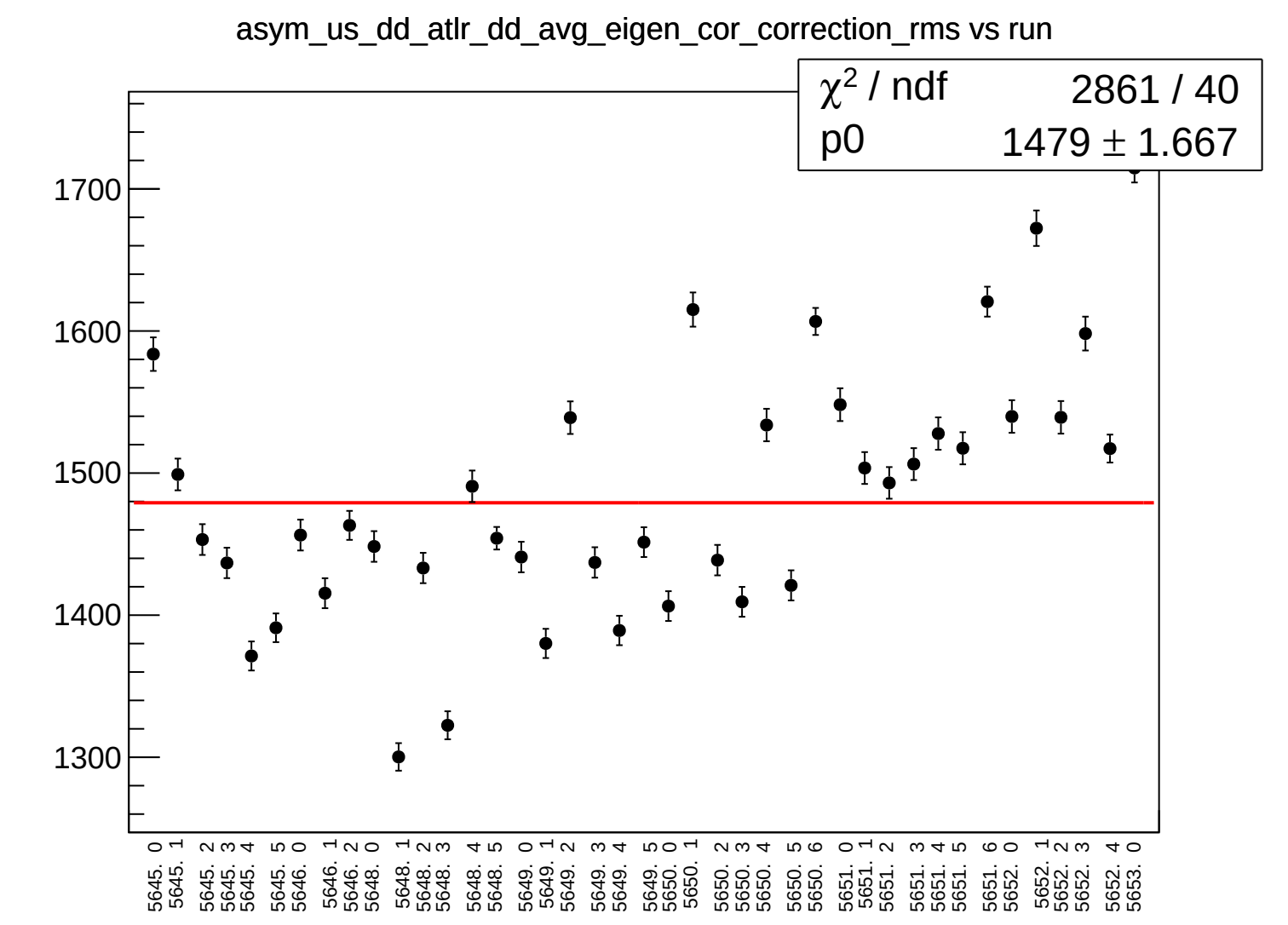

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 43.8 / 40
p0 −1929 ± 2810
pull
Entries 41
Mean −1362
Std Dev 0

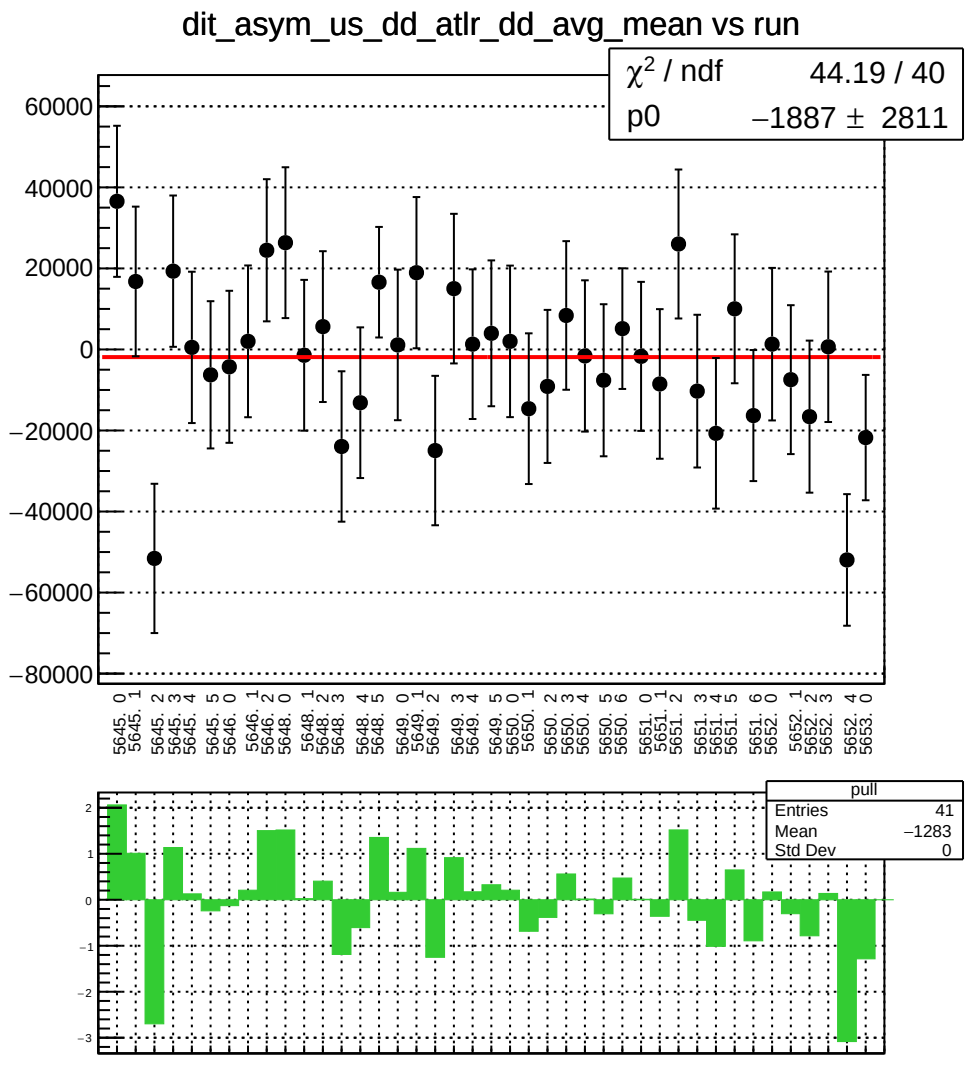

pull1D
Entries 41
Mean 0.003056
Std Dev 1.034

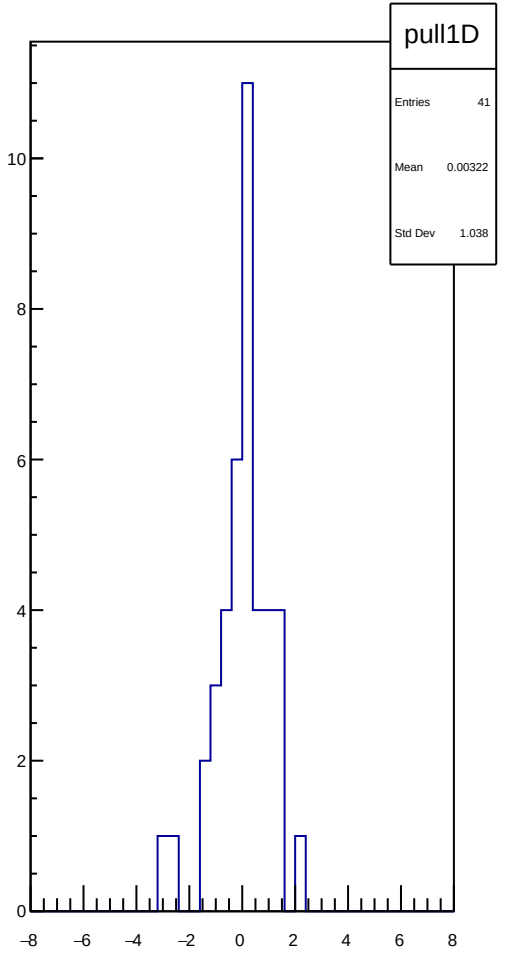

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.86 / 40
p0 1766 ± 1.987
1840
1820
1800
1780
1760
1740
1720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

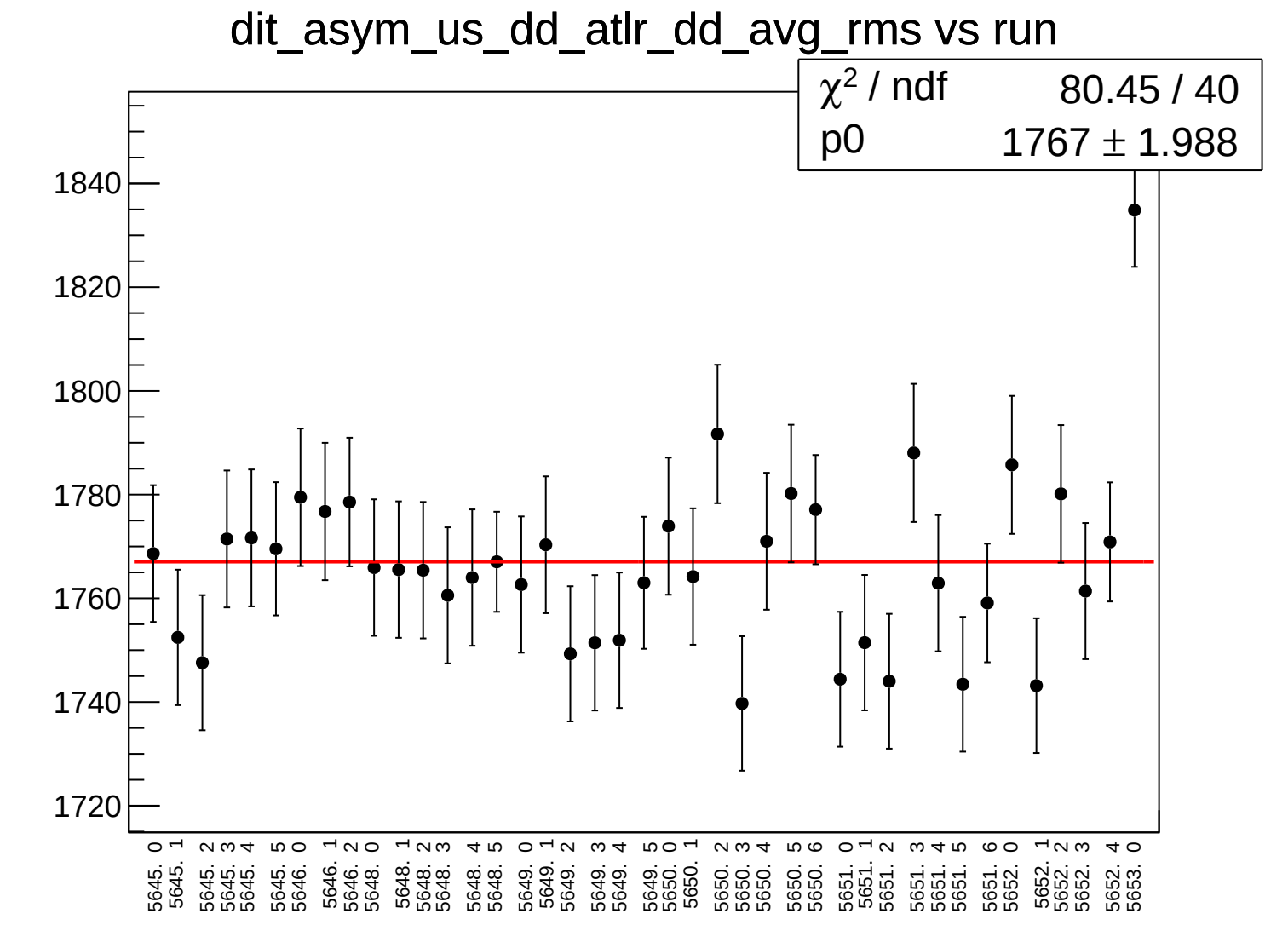

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 46.97 / 40
p0 1210 ± 2357
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 326.5
Std Dev 0
2
1
0
−1
−2

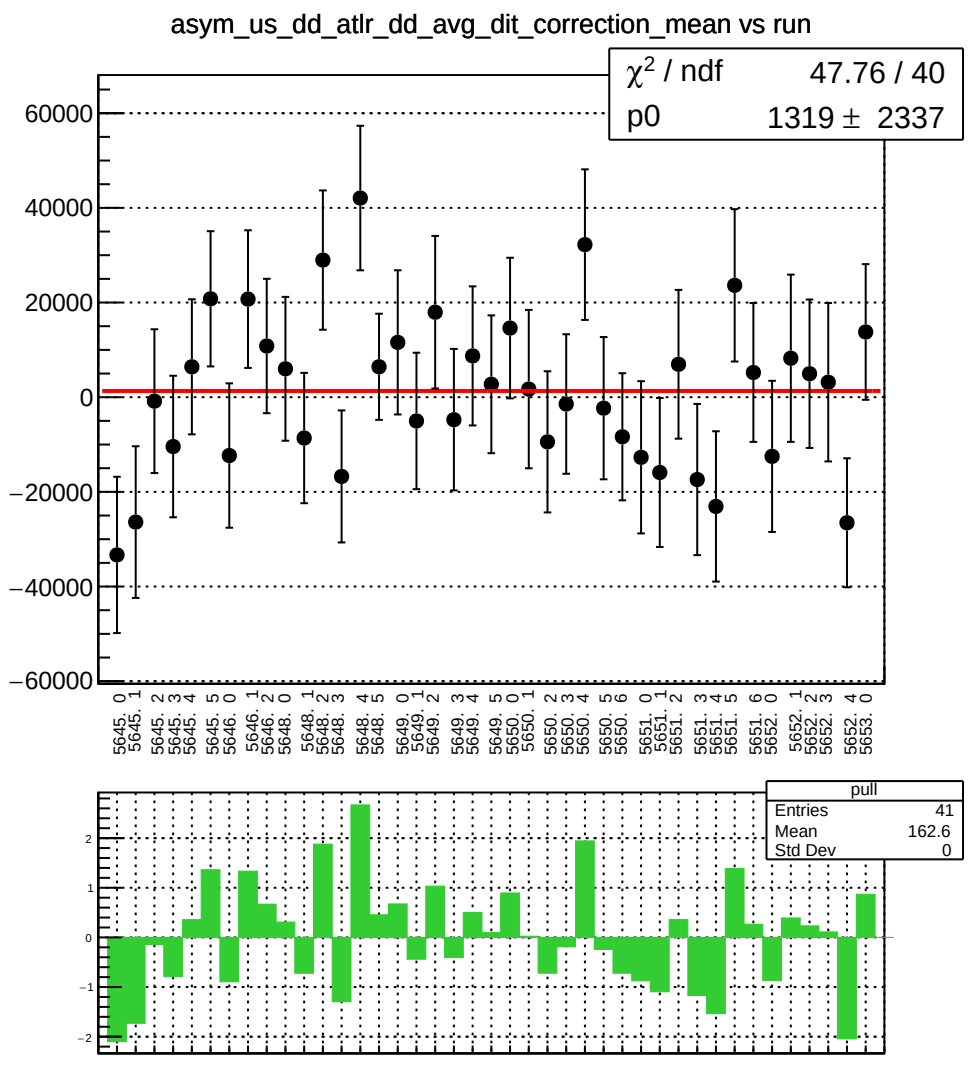

pull1D
Entries 41
Mean −0.001566
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

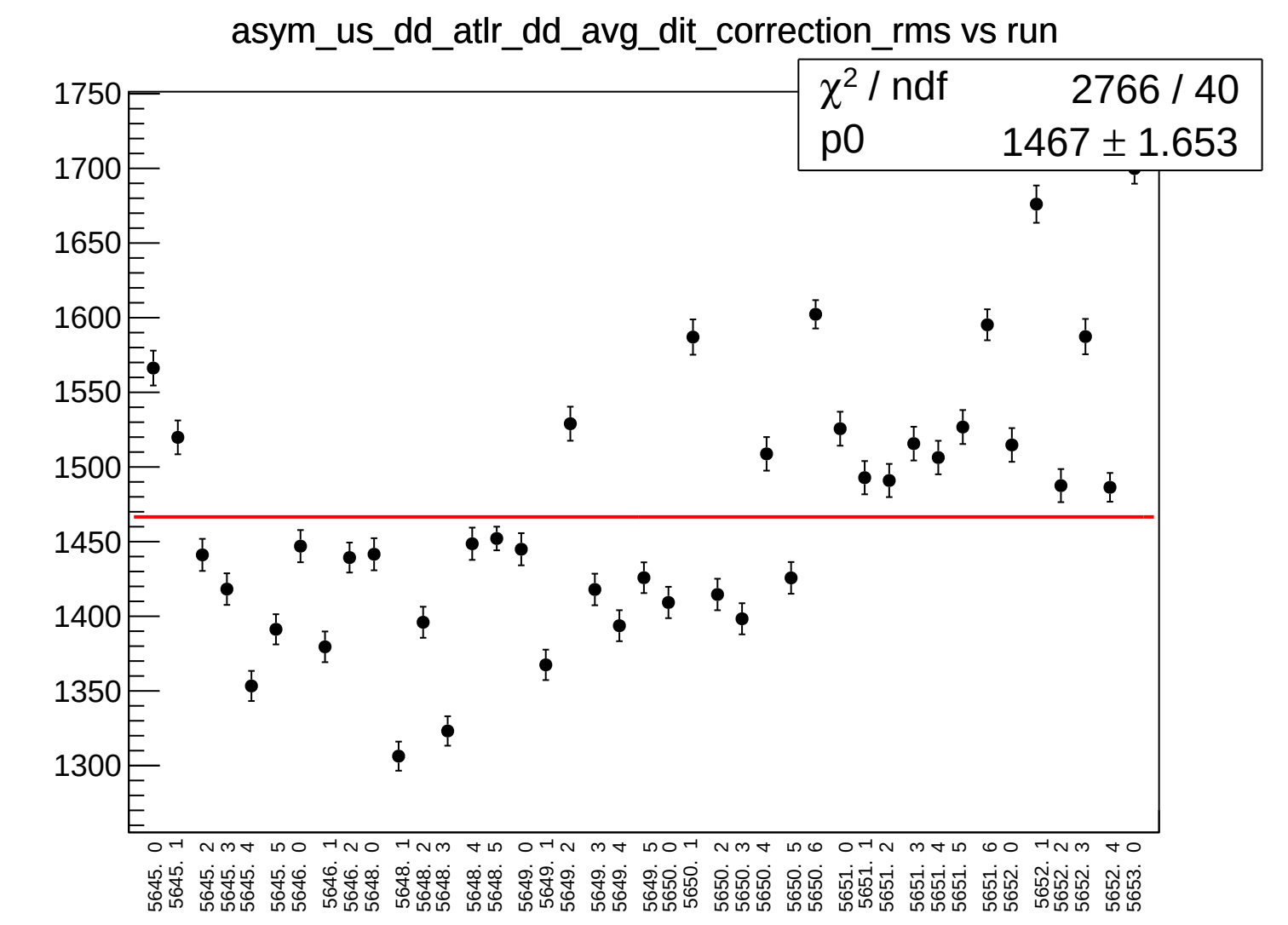

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2861 / 40
p0 1479 ± 1.667
1700
1600
1500
1400
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

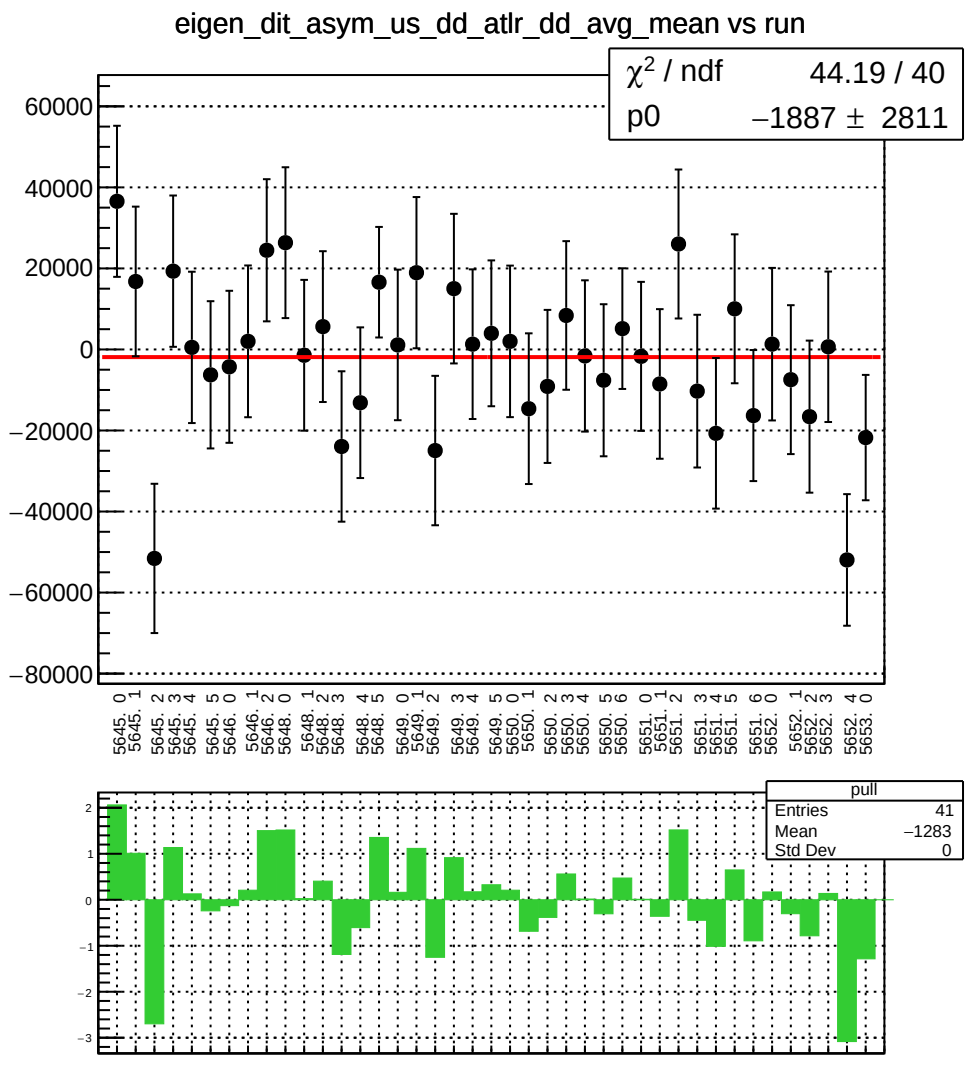

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 44.19 / 40
p0 −1887 ± 2811
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1283
Std Dev 0
2
1
0
−1
−2
−3

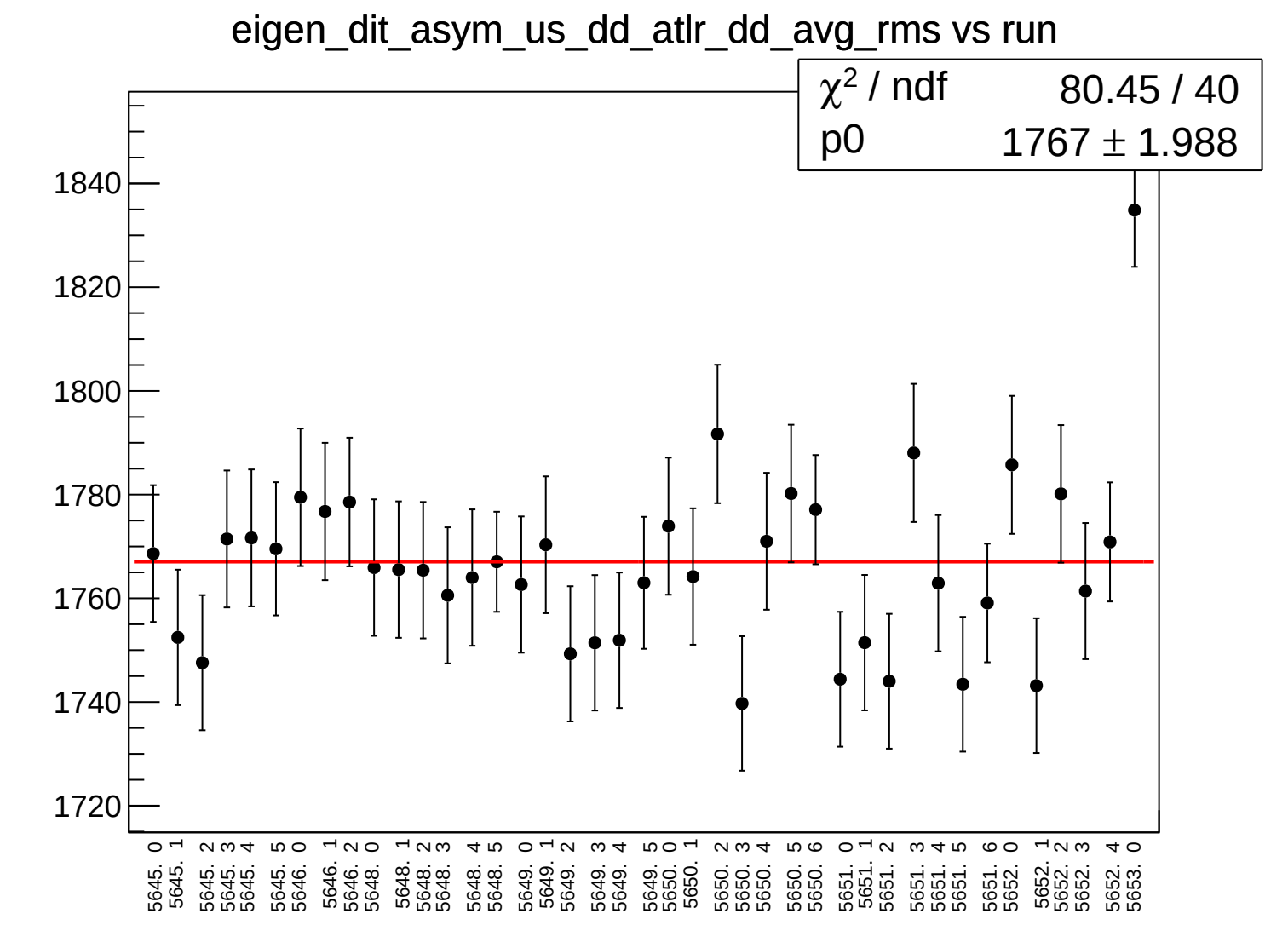

pull1D
Entries 41
Mean 0.00322
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

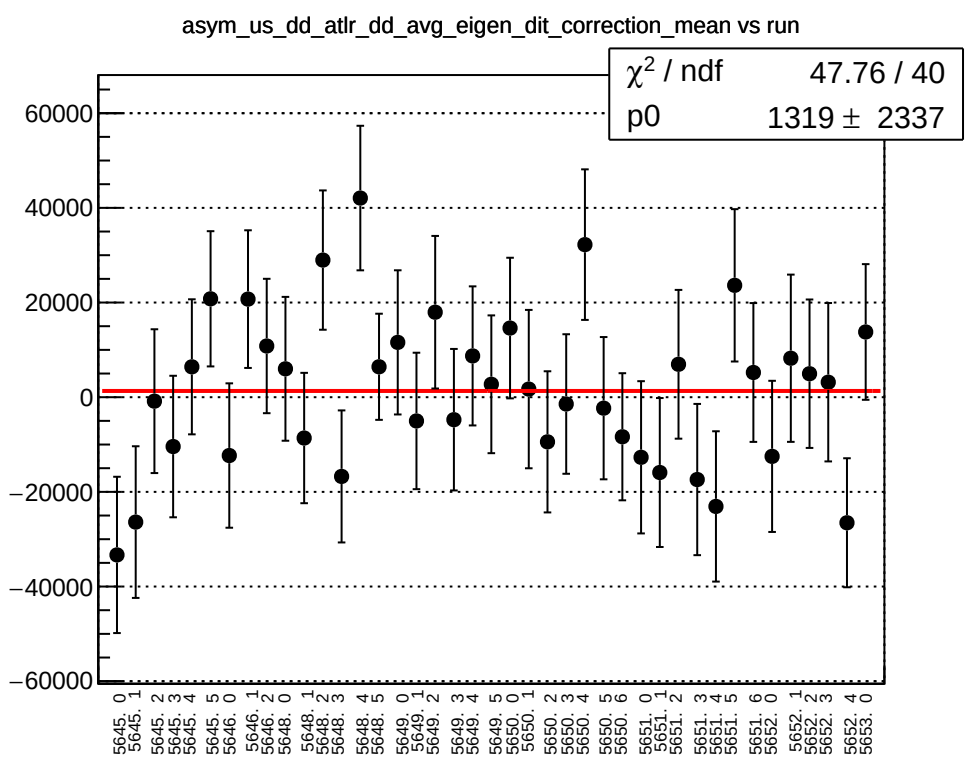

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.45 / 40
p0 1767 ± 1.988
1840
1820
1800
1780
1760
1740
1720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

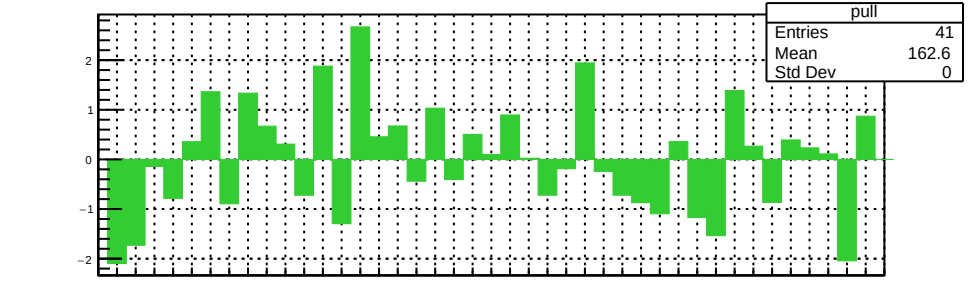

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 47.76 / 40
p0 1319 ± 2337
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 162.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.003535
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

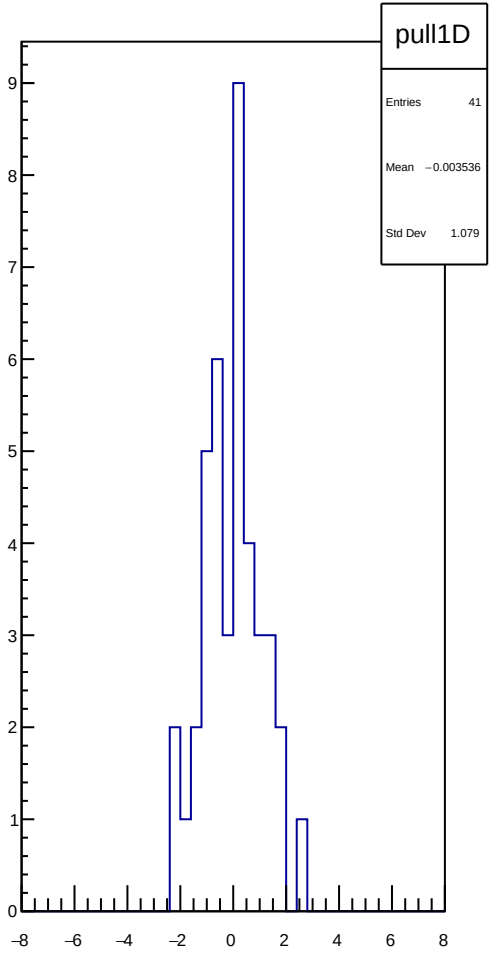

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 2766 / 40
p0 1467 ± 1.653
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

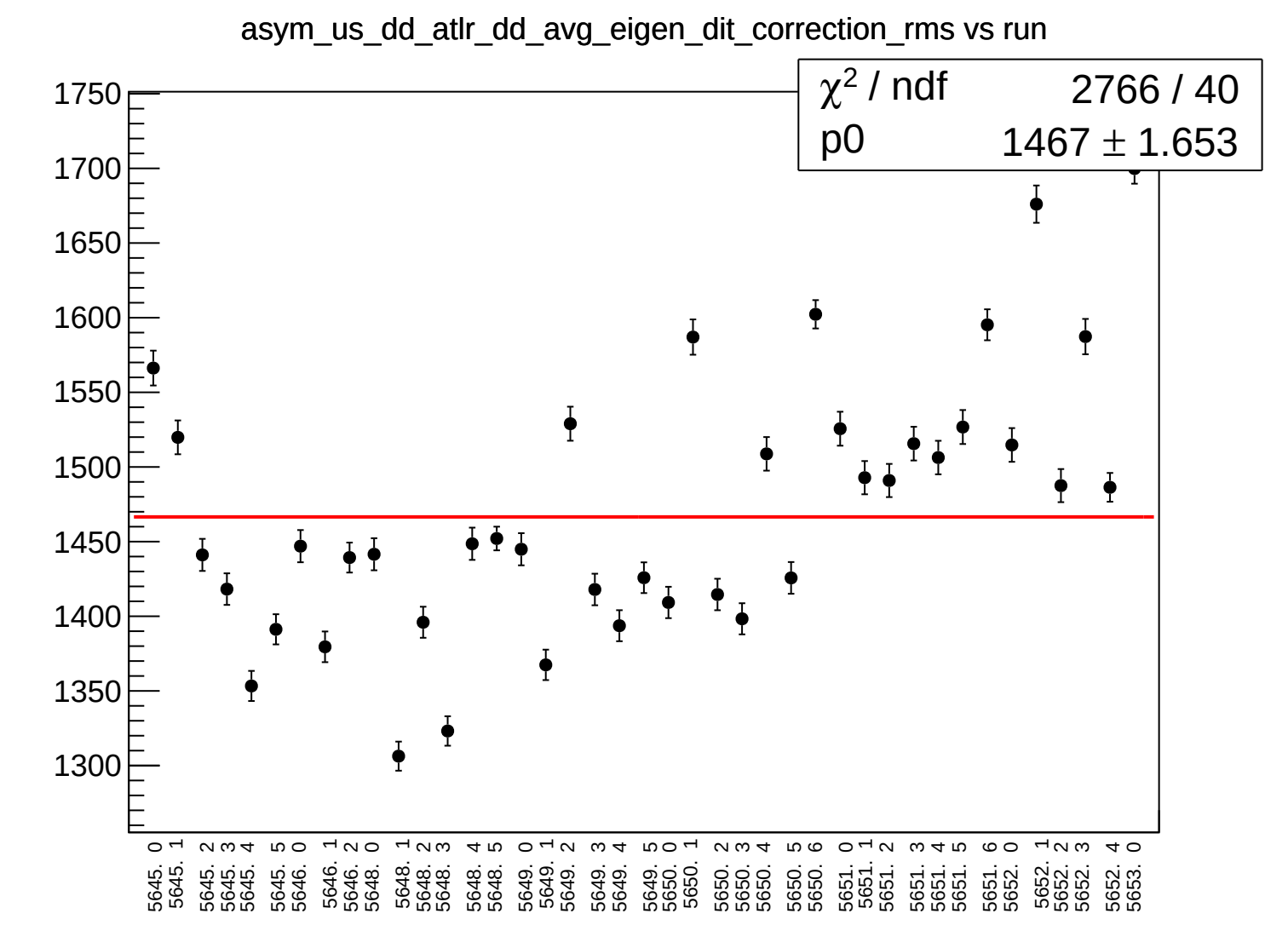

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 44.19 / 40
p0 −1887 ± 2811
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1283
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.00322
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

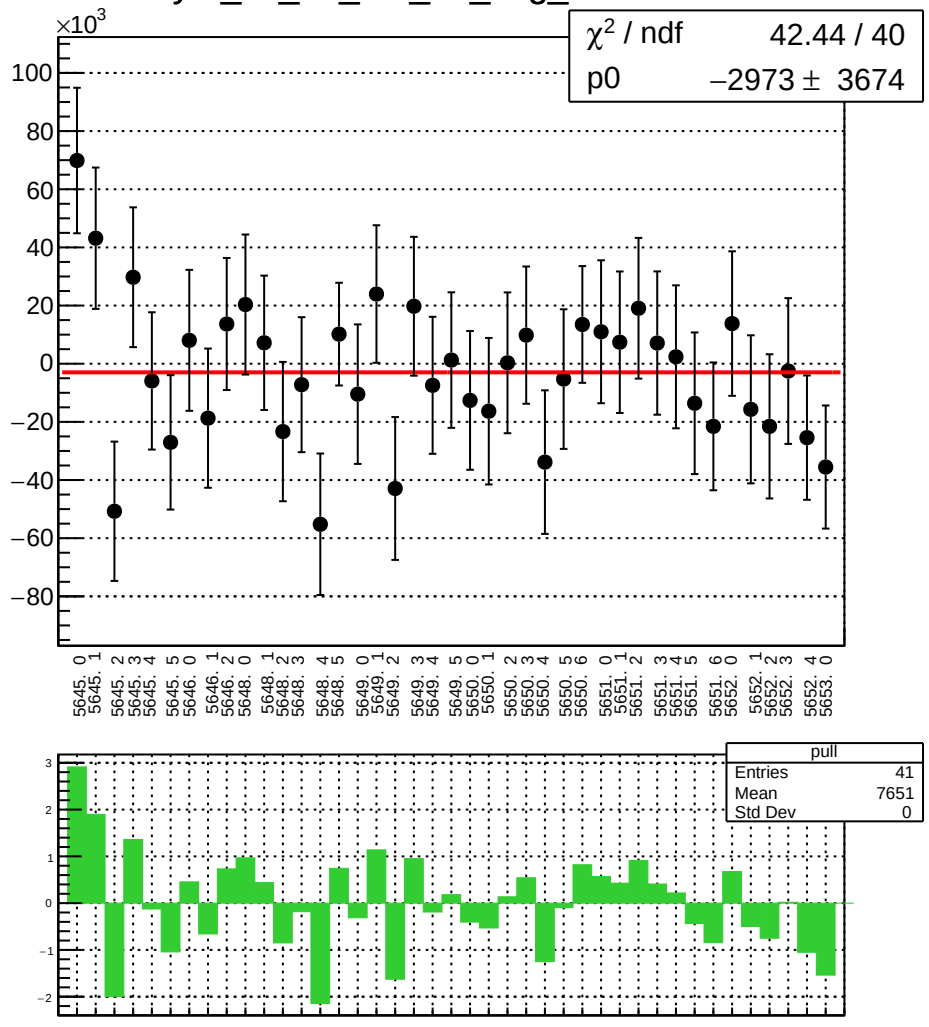

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 80.45 / 40
p0 1767 ± 1.988
1840
1820
1800
1780
1760
1740
1720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

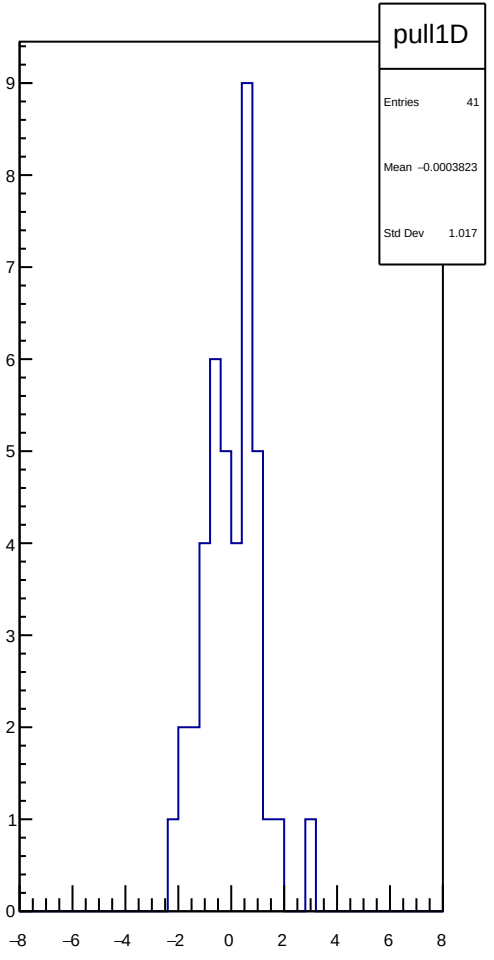

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 47.76 / 40
p0 1319 ± 2337
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

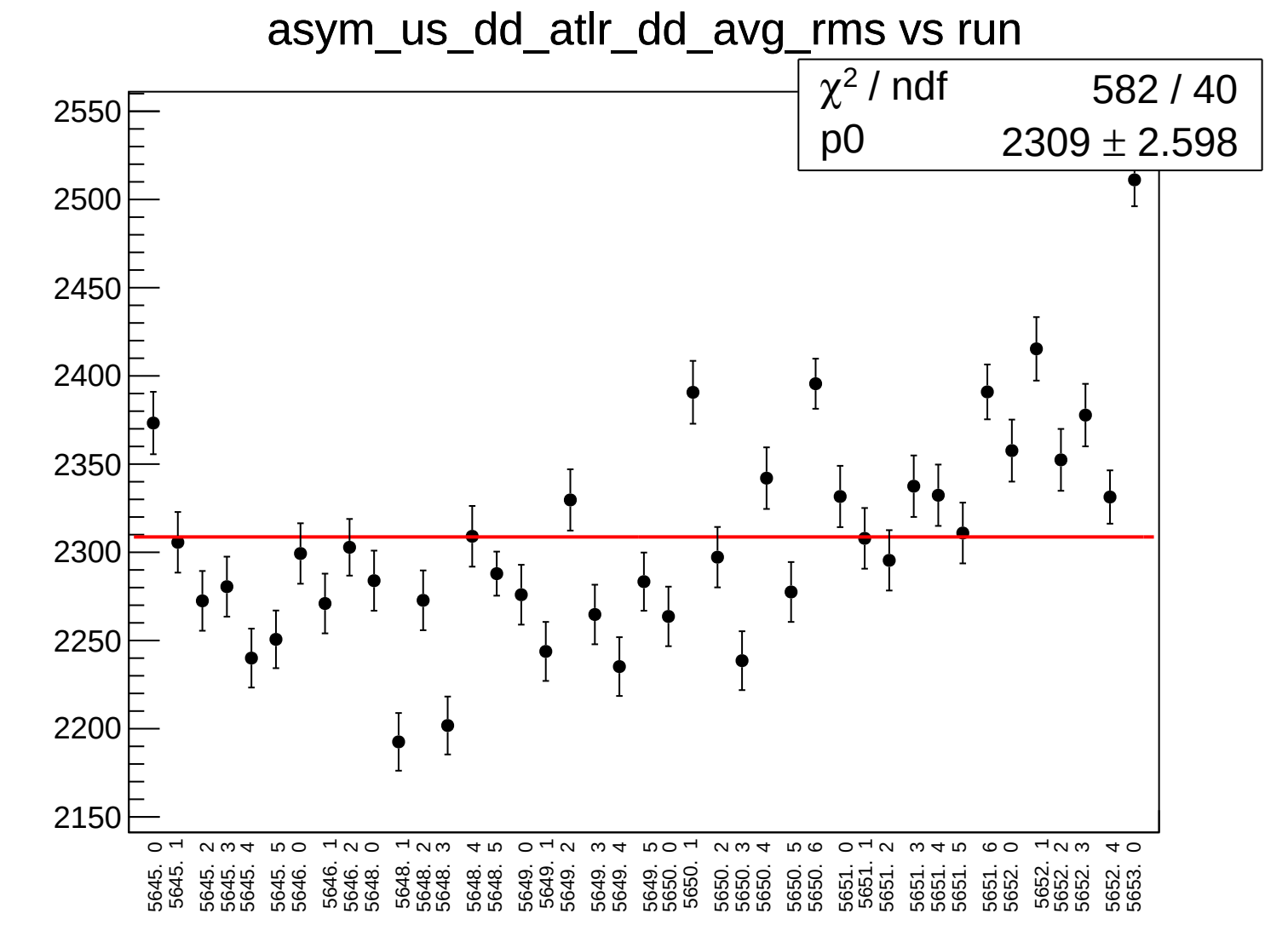

pull
Entries 41
Mean 162.6
Std Dev 0
2
1
0
−1
−2

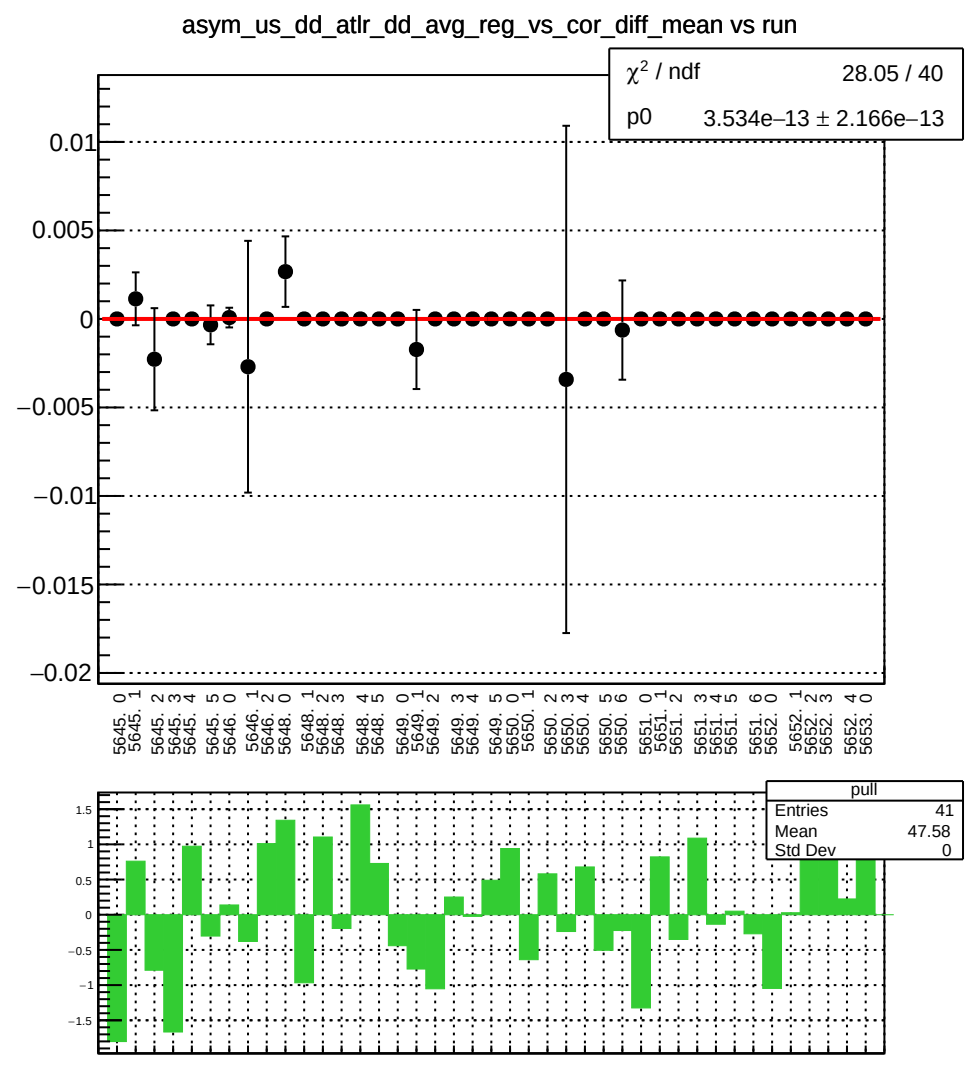

pull1D
Entries 41
Mean −0.003536
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

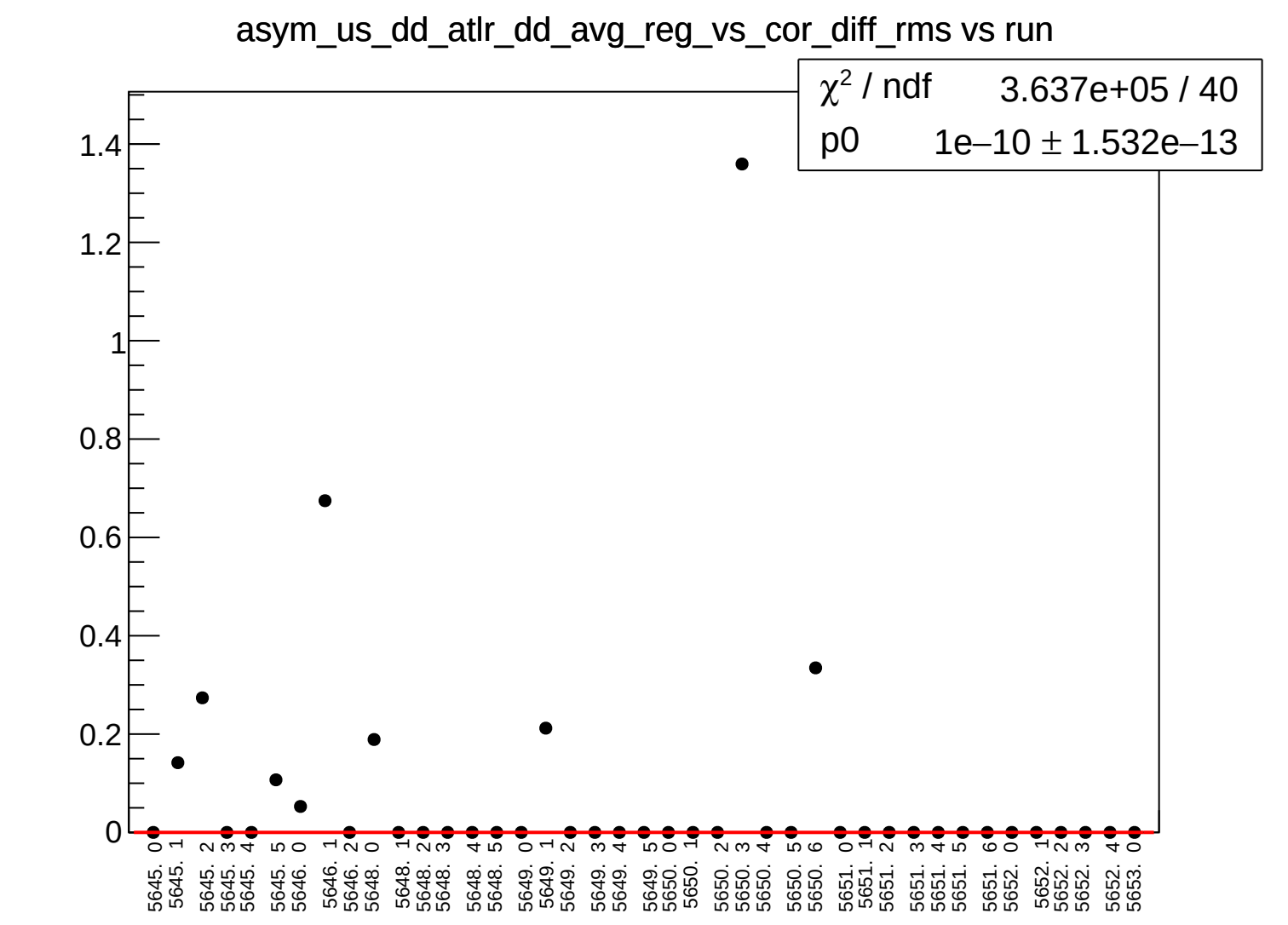

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2766 / 40
p0 1467 ± 1.653
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

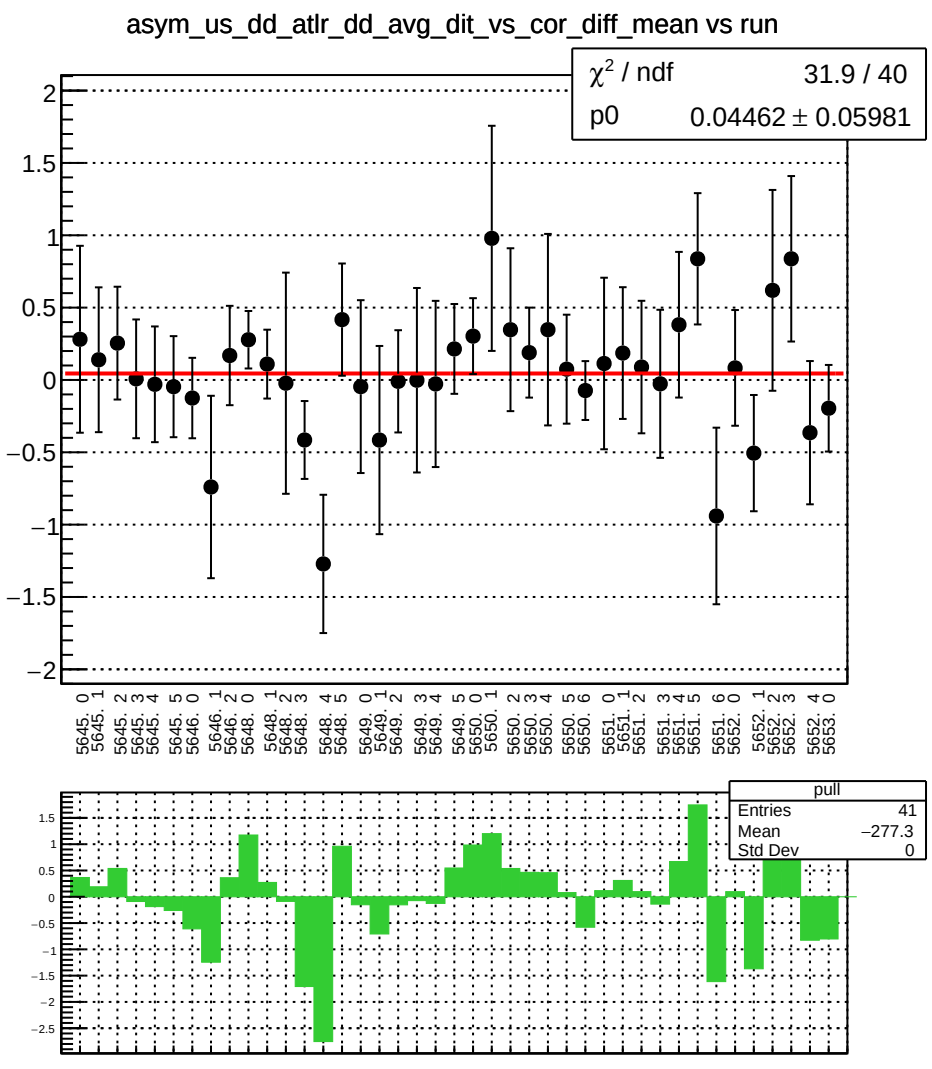

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 42.44 / 40
p0 −2973 ± 3674
pull
Entries 41
Mean 7651
Std Dev 0

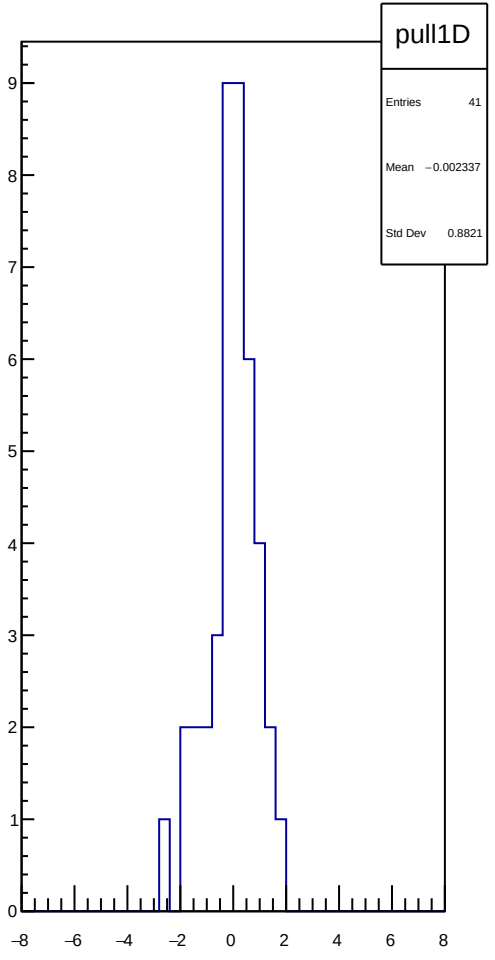

pull1D
Entries 41
Mean −0.0003823
Std Dev 1.017

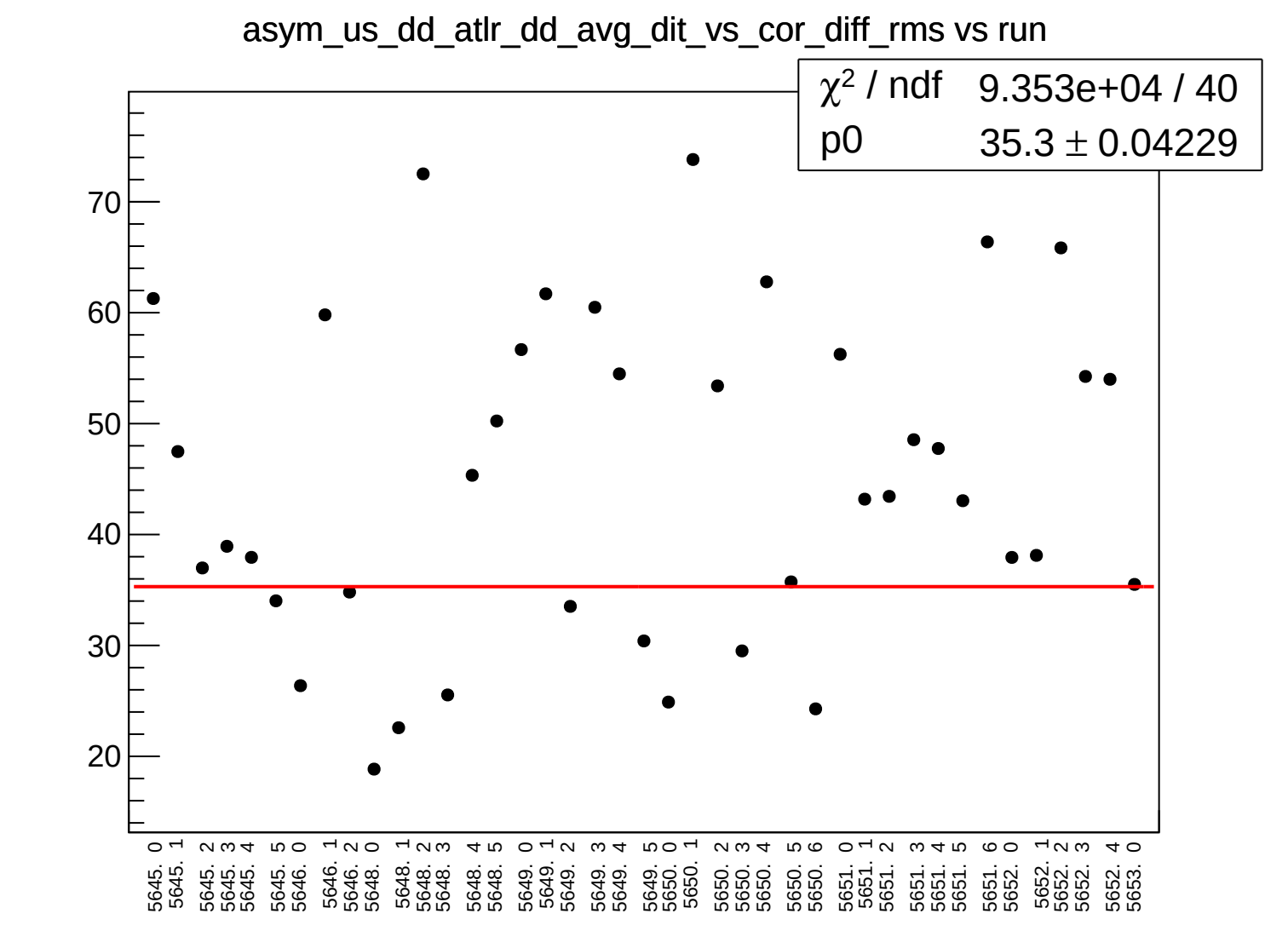

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 582 / 40
p0 2309 ± 2.598
2550
2500
2450
2400
2350
2300
2250
2200
2150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

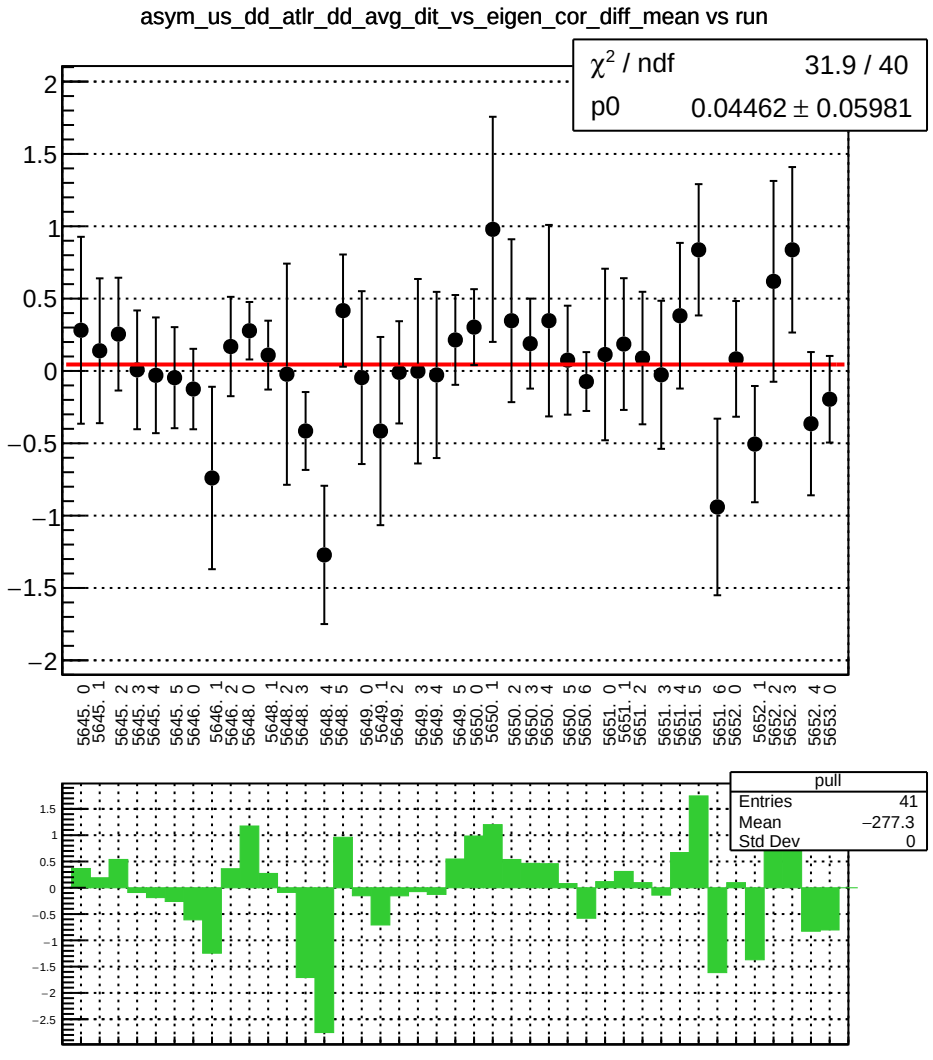

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.05 / 40
p0 3.534e−13 ± 2.166e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 47.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.05137
Std Dev 0.8256
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

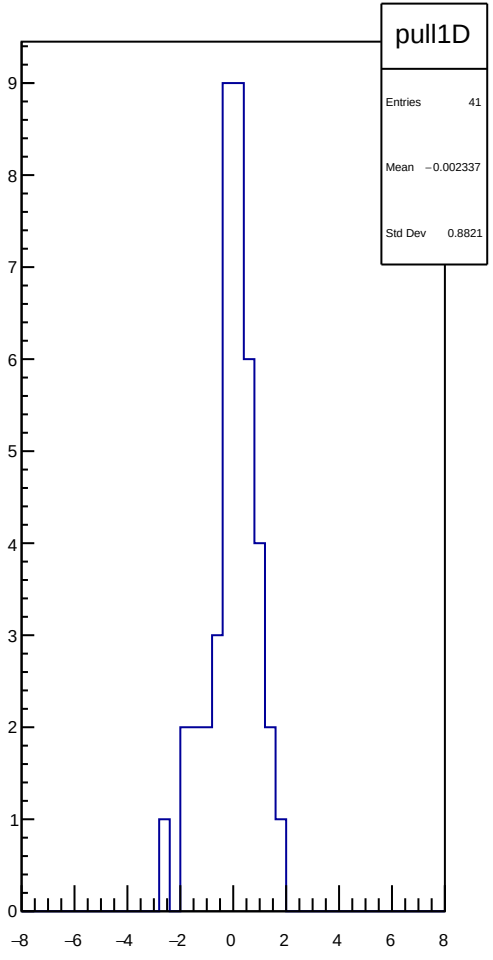

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.637e+05 / 40
p0 1e−10 ± 1.532e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

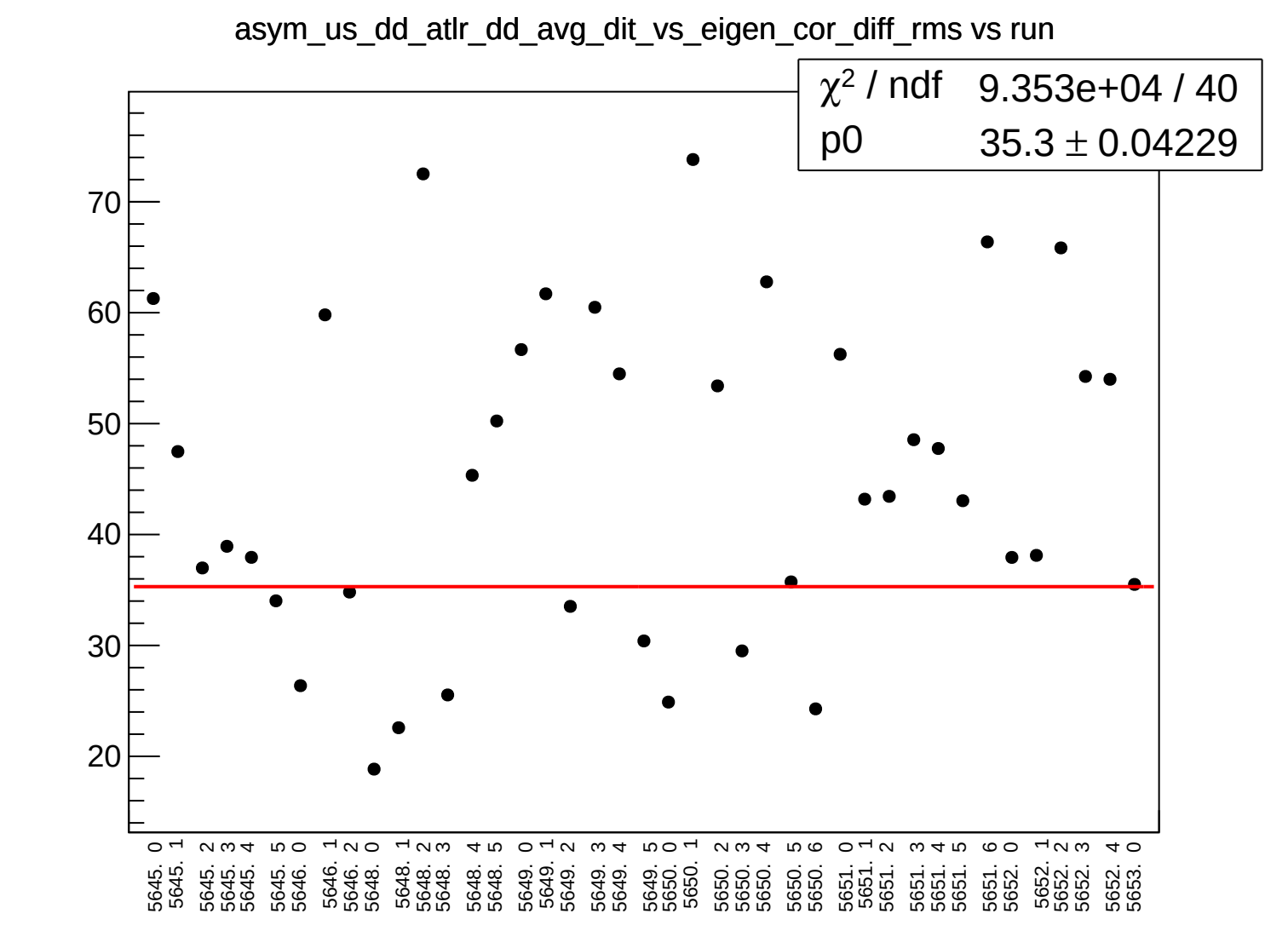

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.9 / 40
p0 0.04462 ± 0.05981
pull
Entries 41
Mean −277.3
Std Dev 0

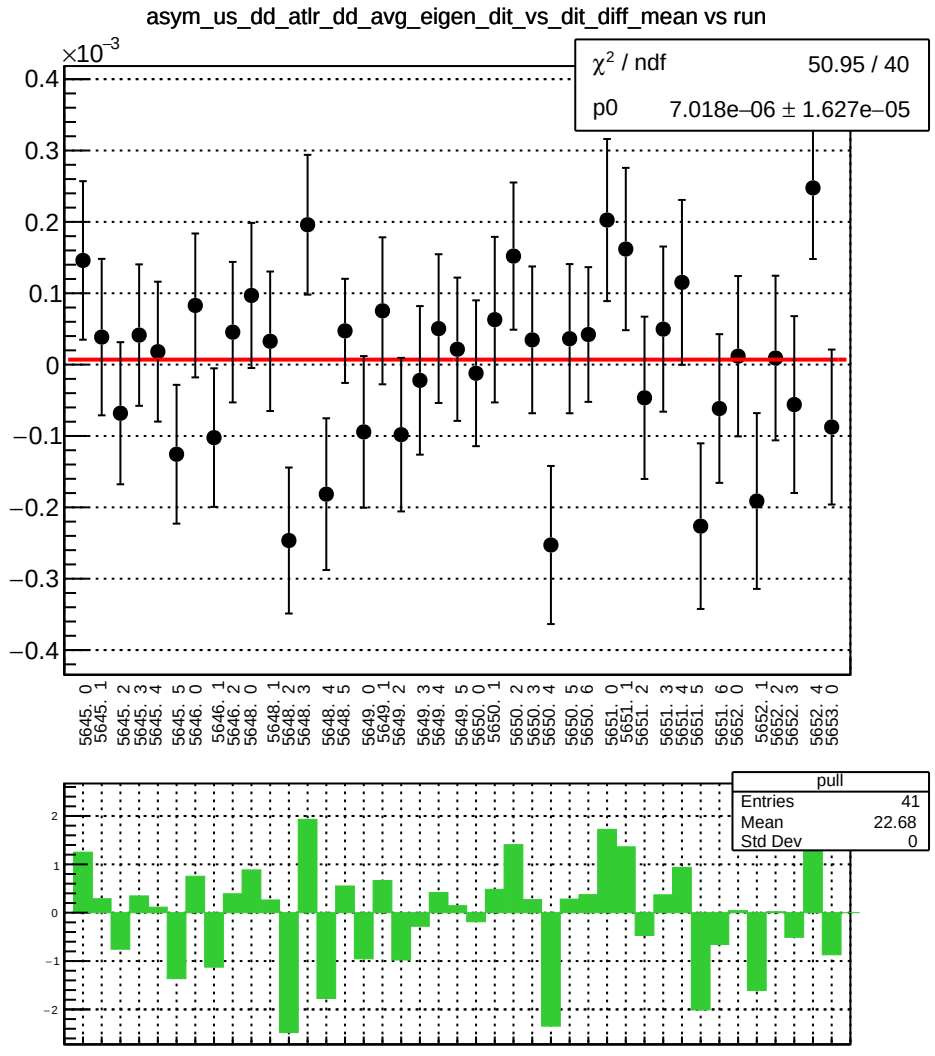

pull1D
Entries 41
Mean −0.002337
Std Dev 0.8821

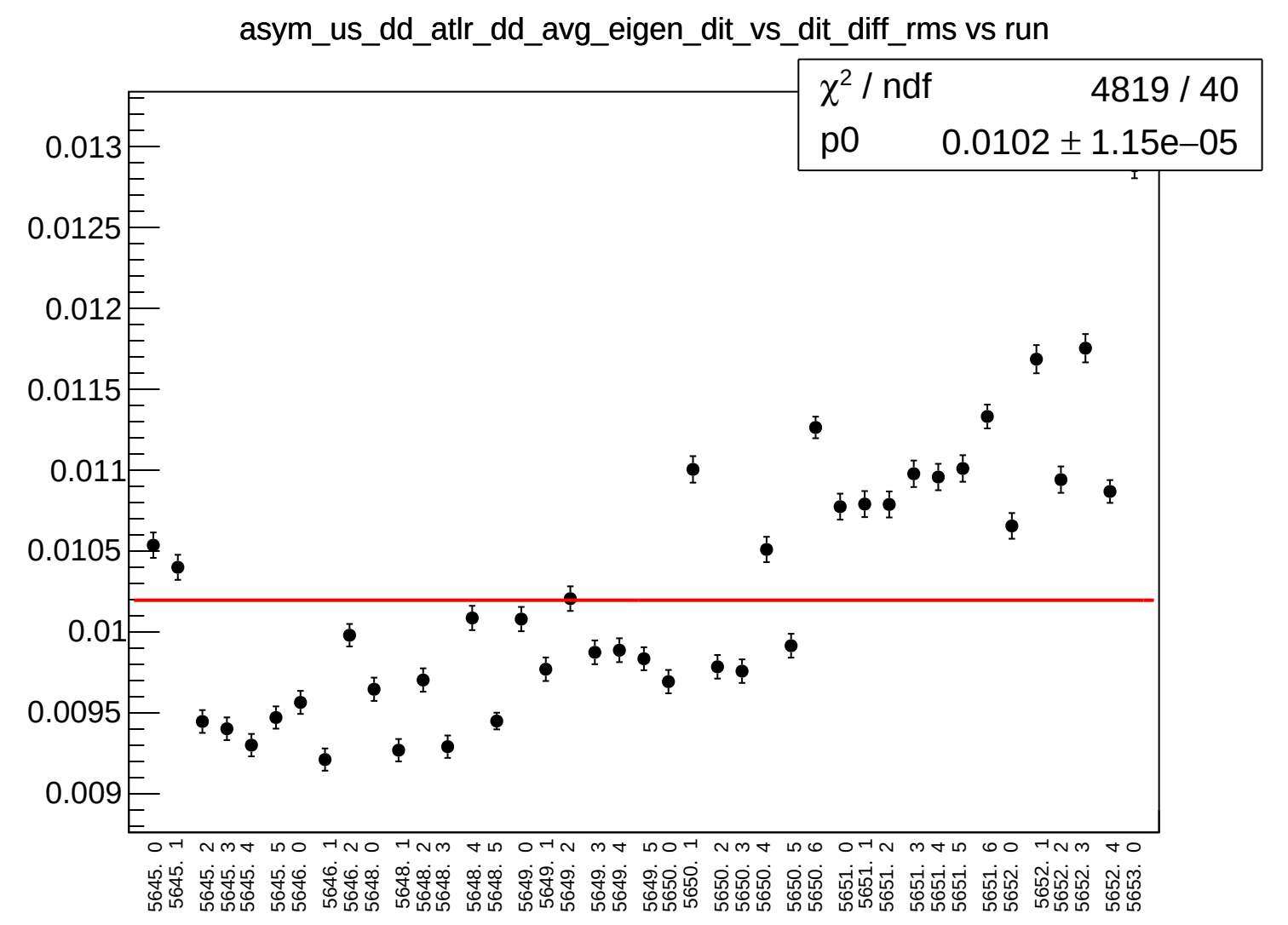

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.353e+04 / 40
p0 35.3 ± 0.04229
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

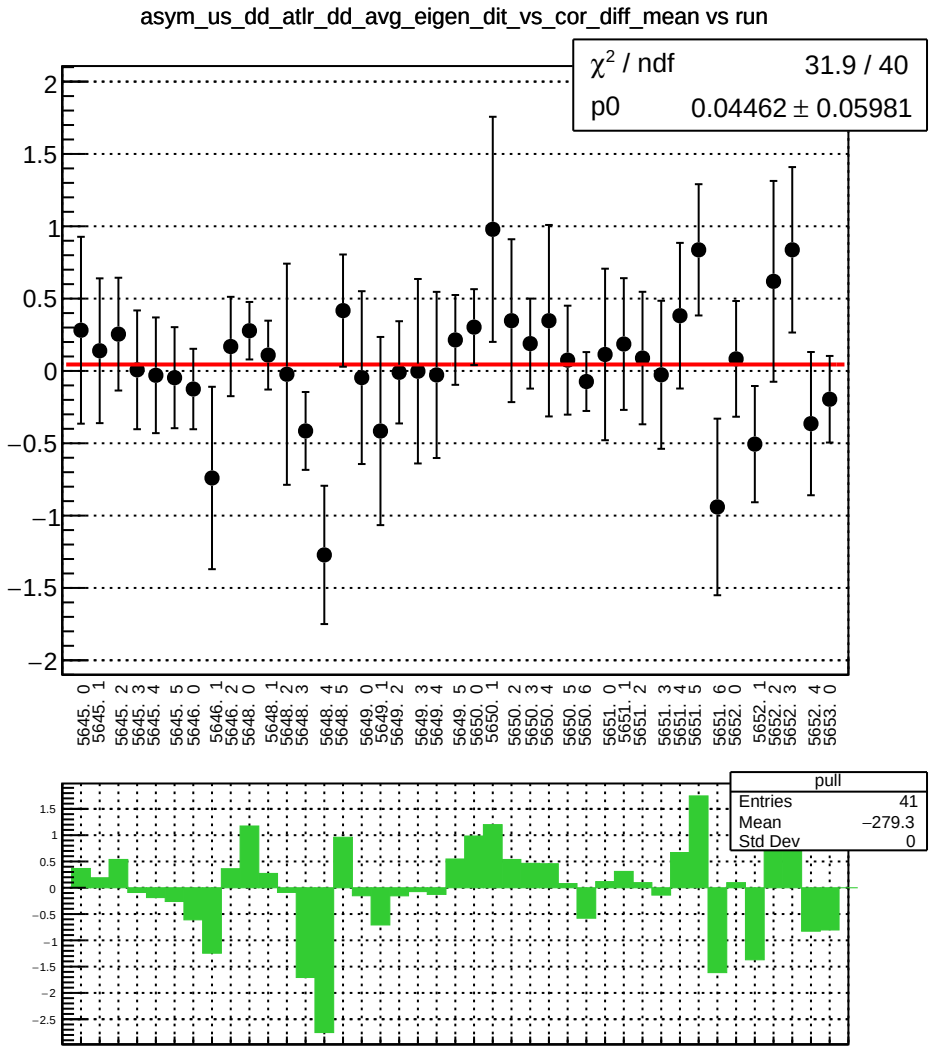

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.9 / 40
p0 0.04462 ± 0.05981
pull
Entries 41
Mean −277.3
Std Dev 0

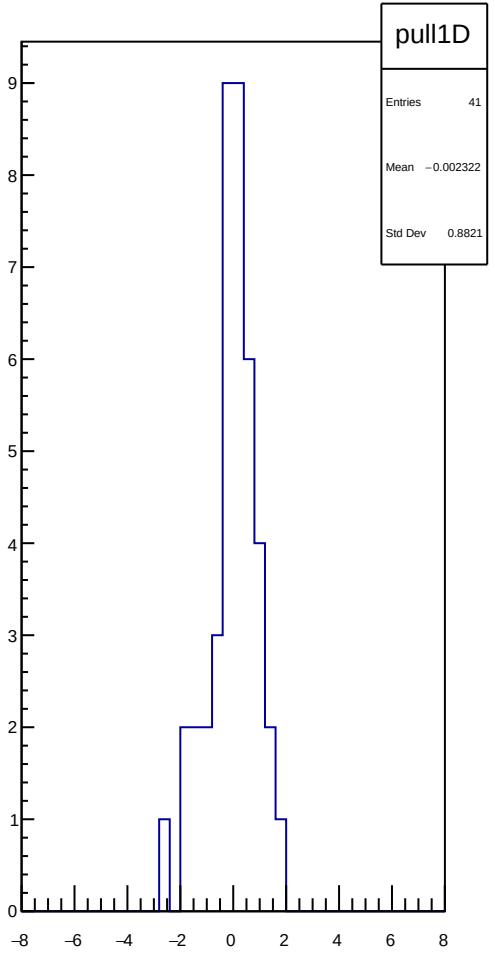

pull1D
Entries 41
Mean −0.002337
Std Dev 0.8821

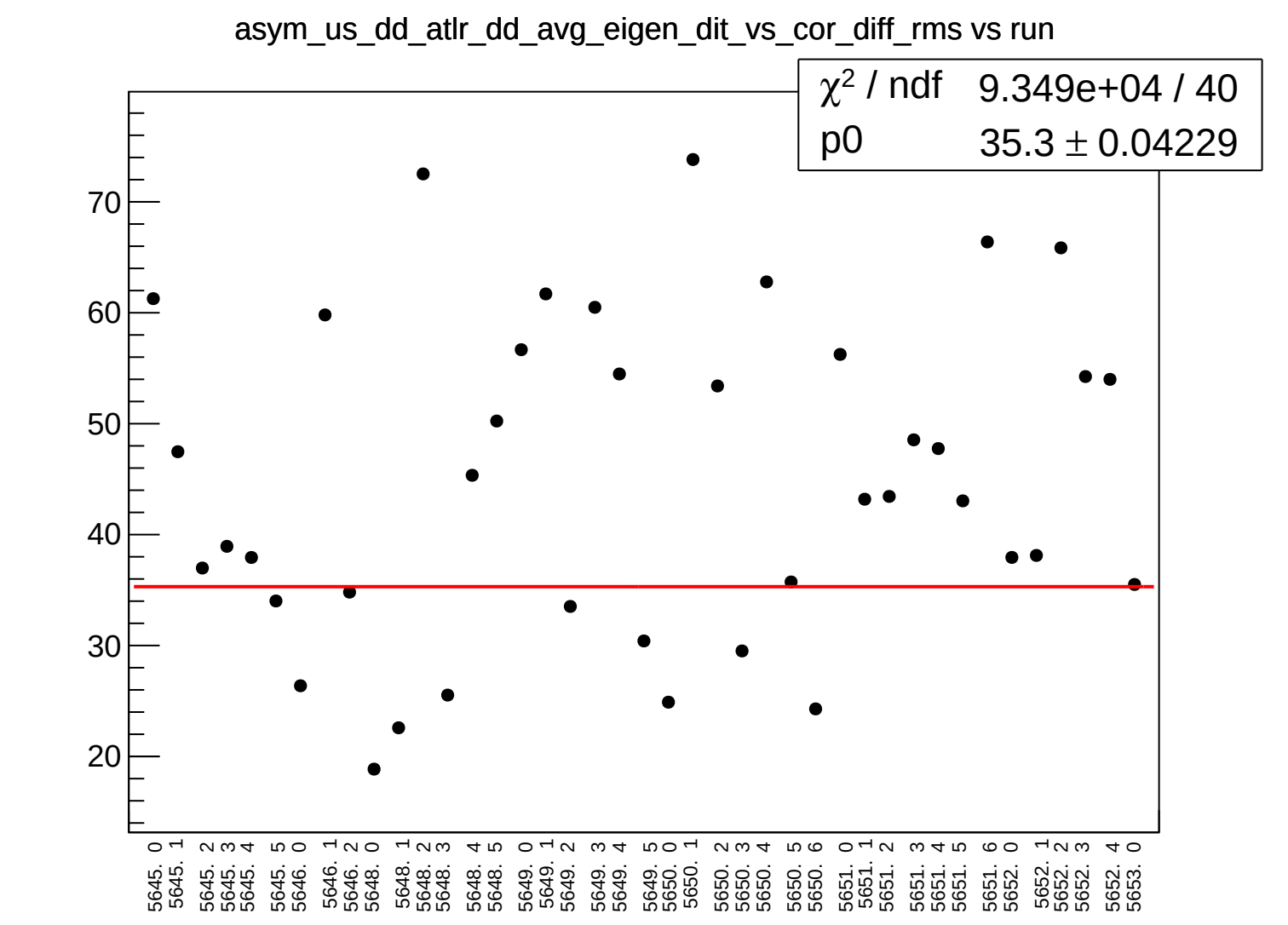

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.353e+04 / 40
p0 35.3 ± 0.04229
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

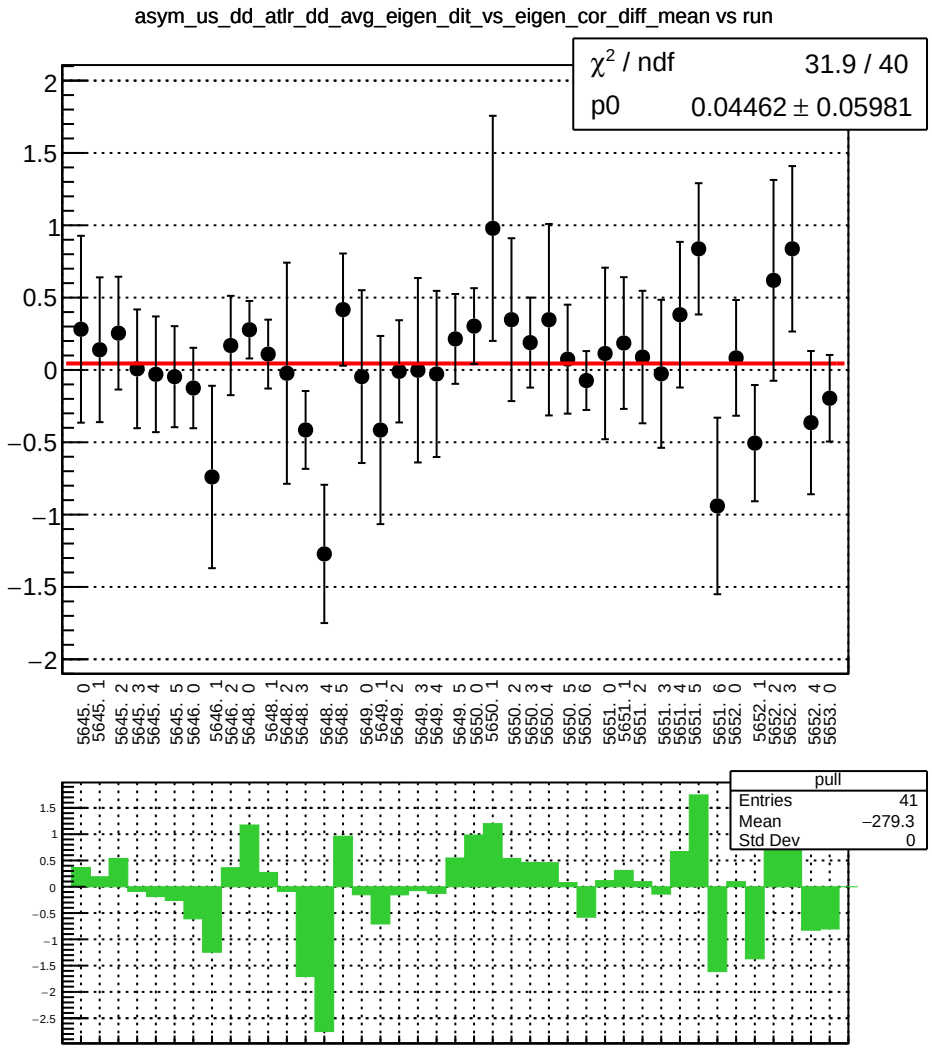

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.95 / 40
p0 7.018e−06 ± 1.627e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.68
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01679
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

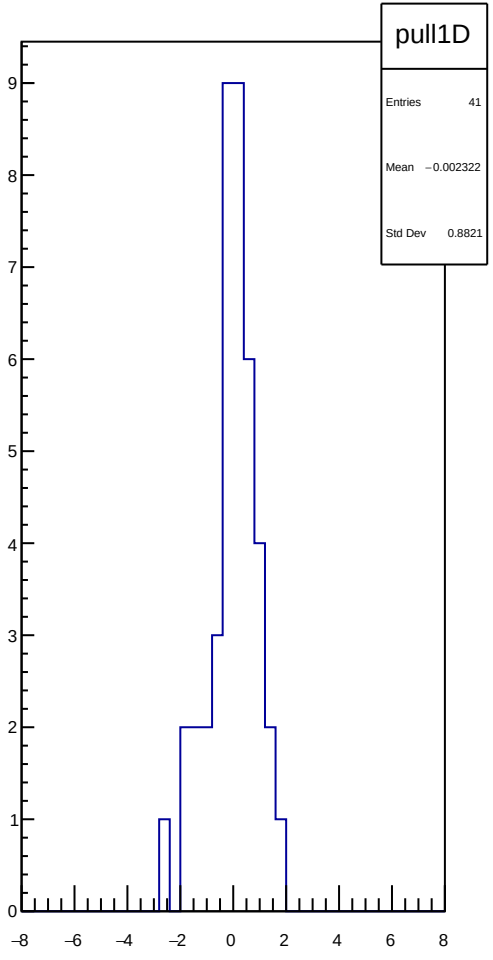

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4819 / 40
p0 0.0102 ± 1.15e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

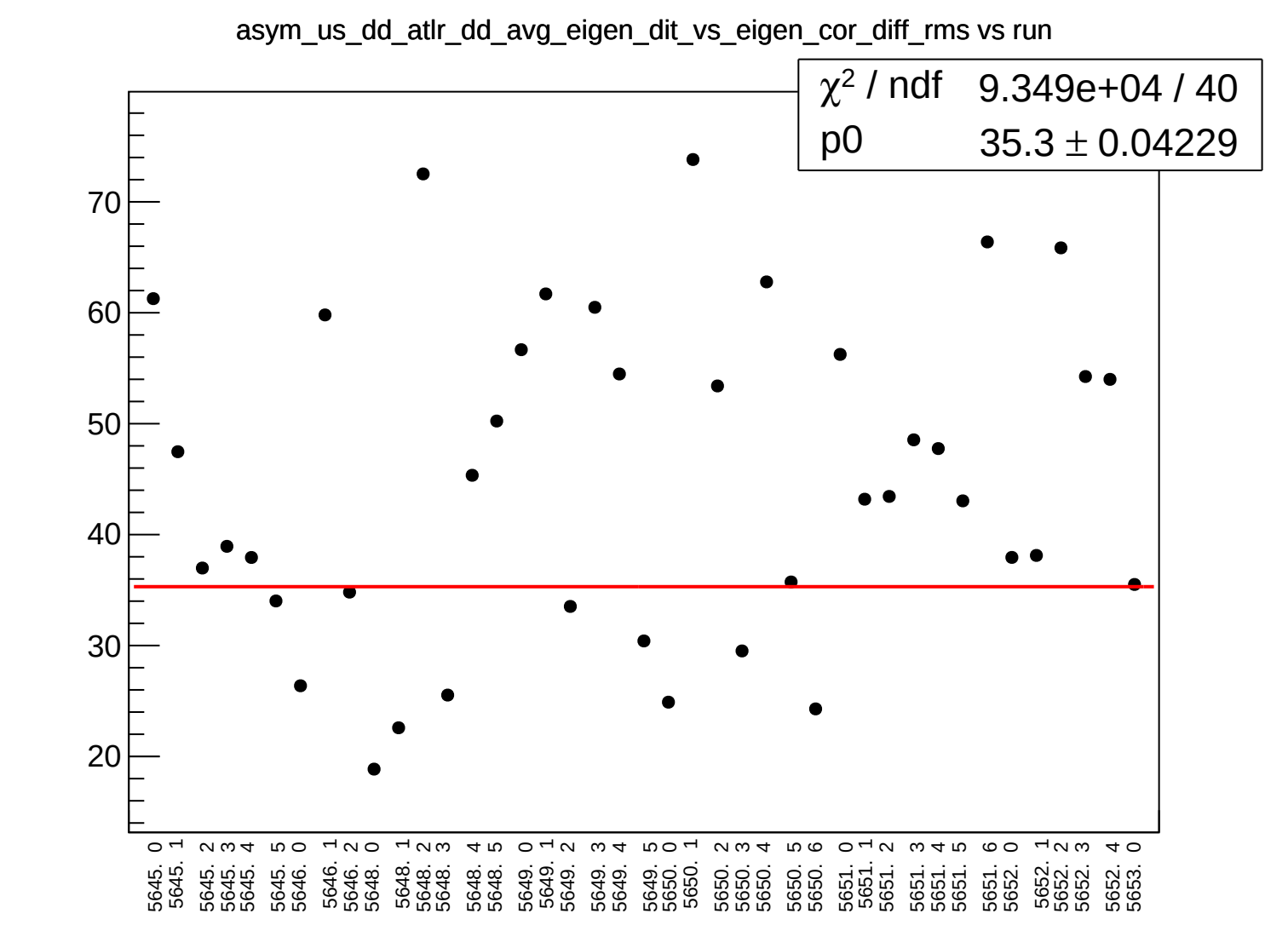

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.9 / 40
p0 0.04462 ± 0.05981
pull
Entries 41
Mean −279.3
Std Dev 0

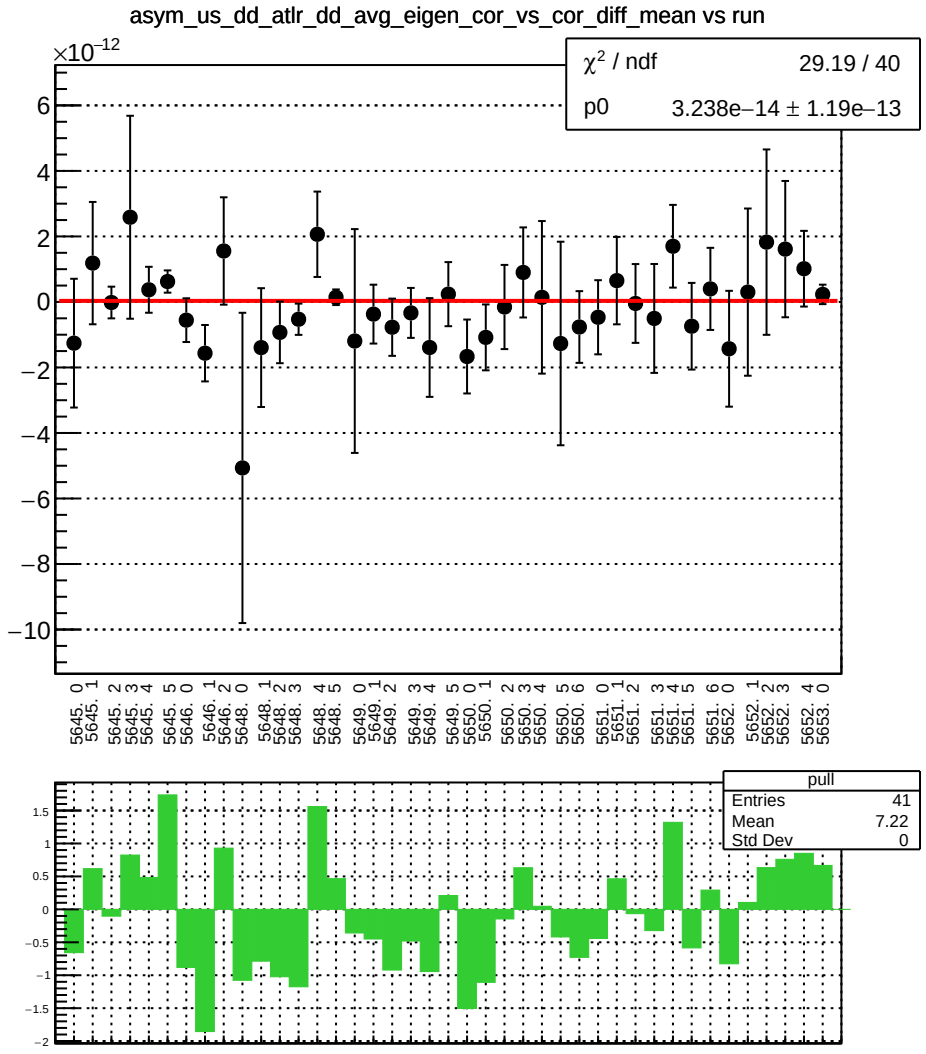

pull1D
Entries 41
Mean −0.002322
Std Dev 0.8821

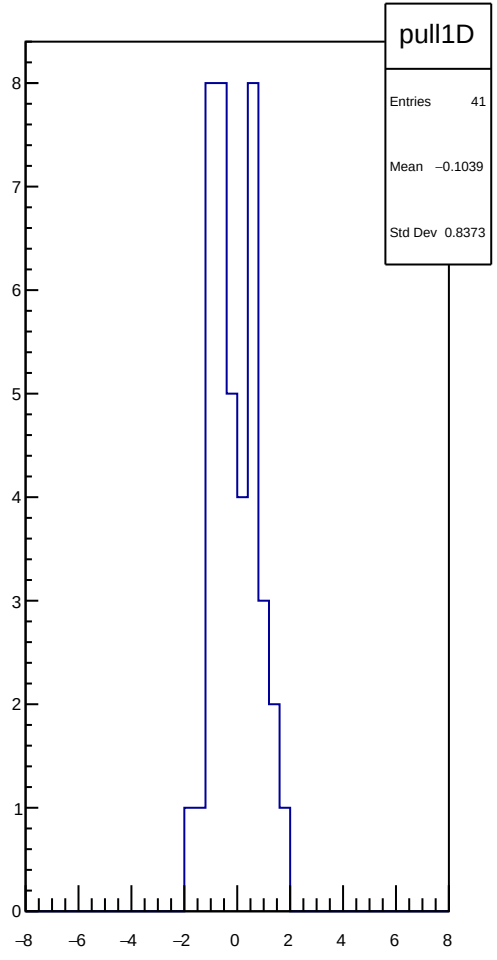

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.349e+04 / 40
p0 35.3 ± 0.04229
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

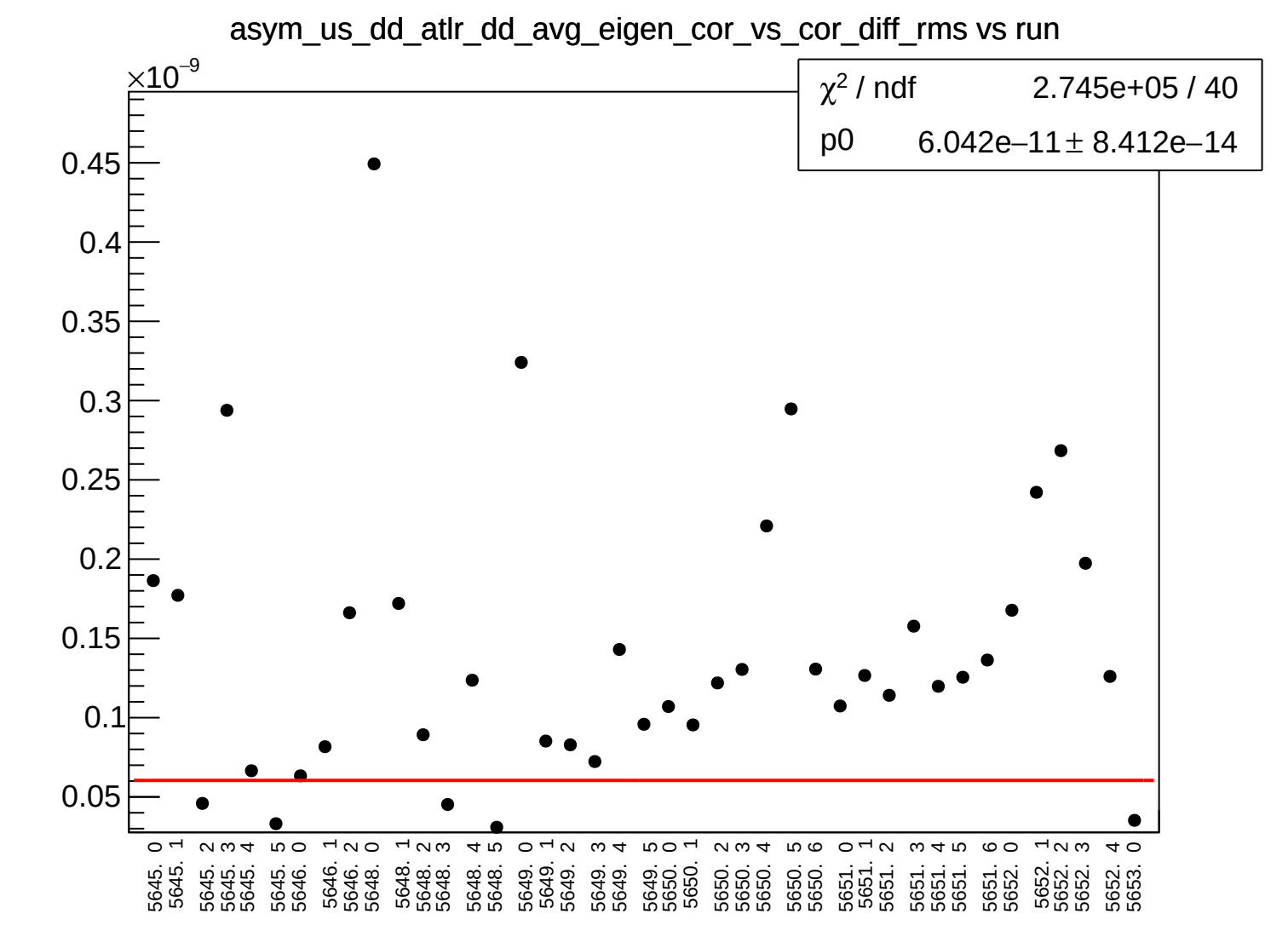

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.9 / 40
p0 0.04462 ± 0.05981
pull
Entries 41
Mean −279.3
Std Dev 0

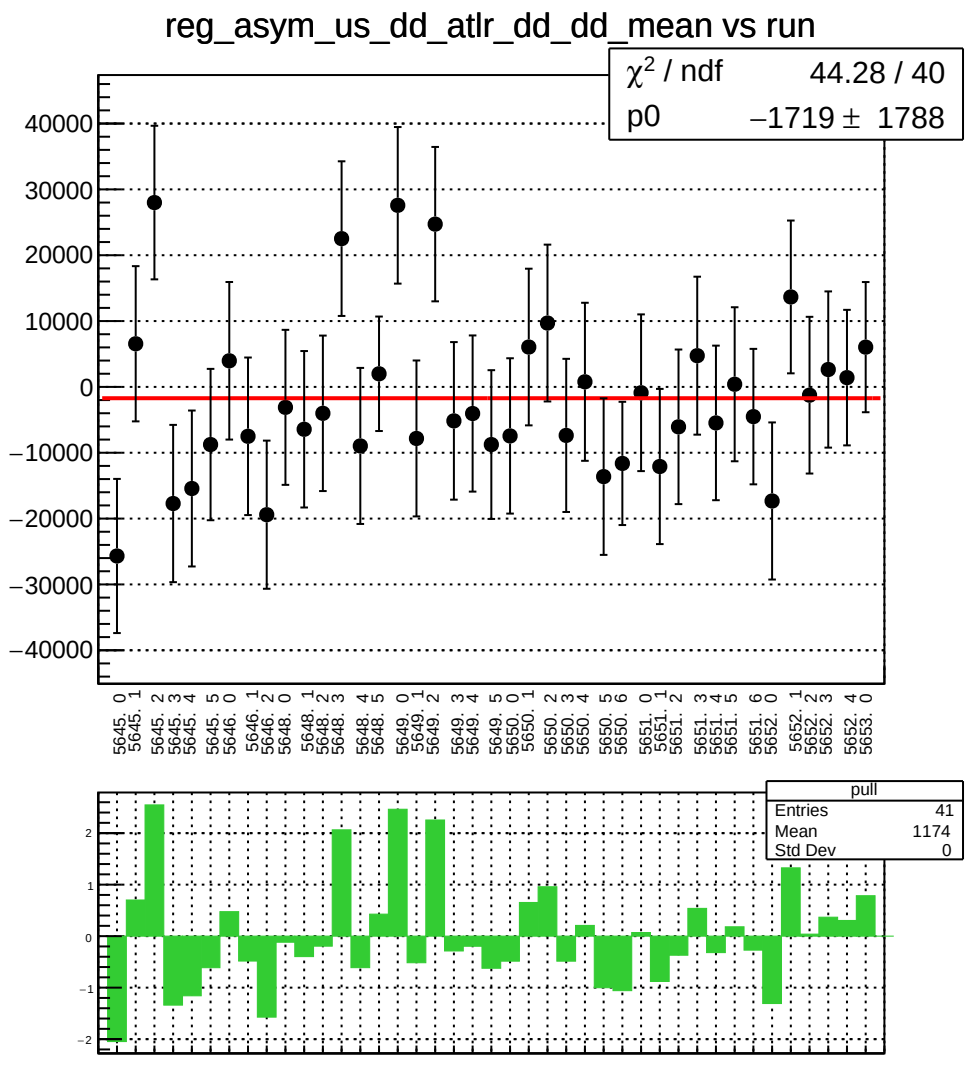

pull1D
Entries 41
Mean −0.002322
Std Dev 0.8821

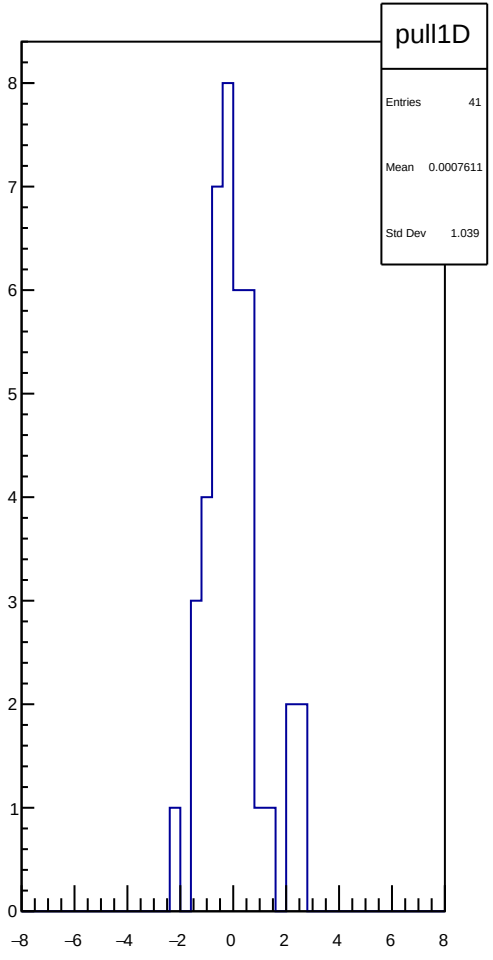

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.349e+04 / 40
p0 35.3 ± 0.04229
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

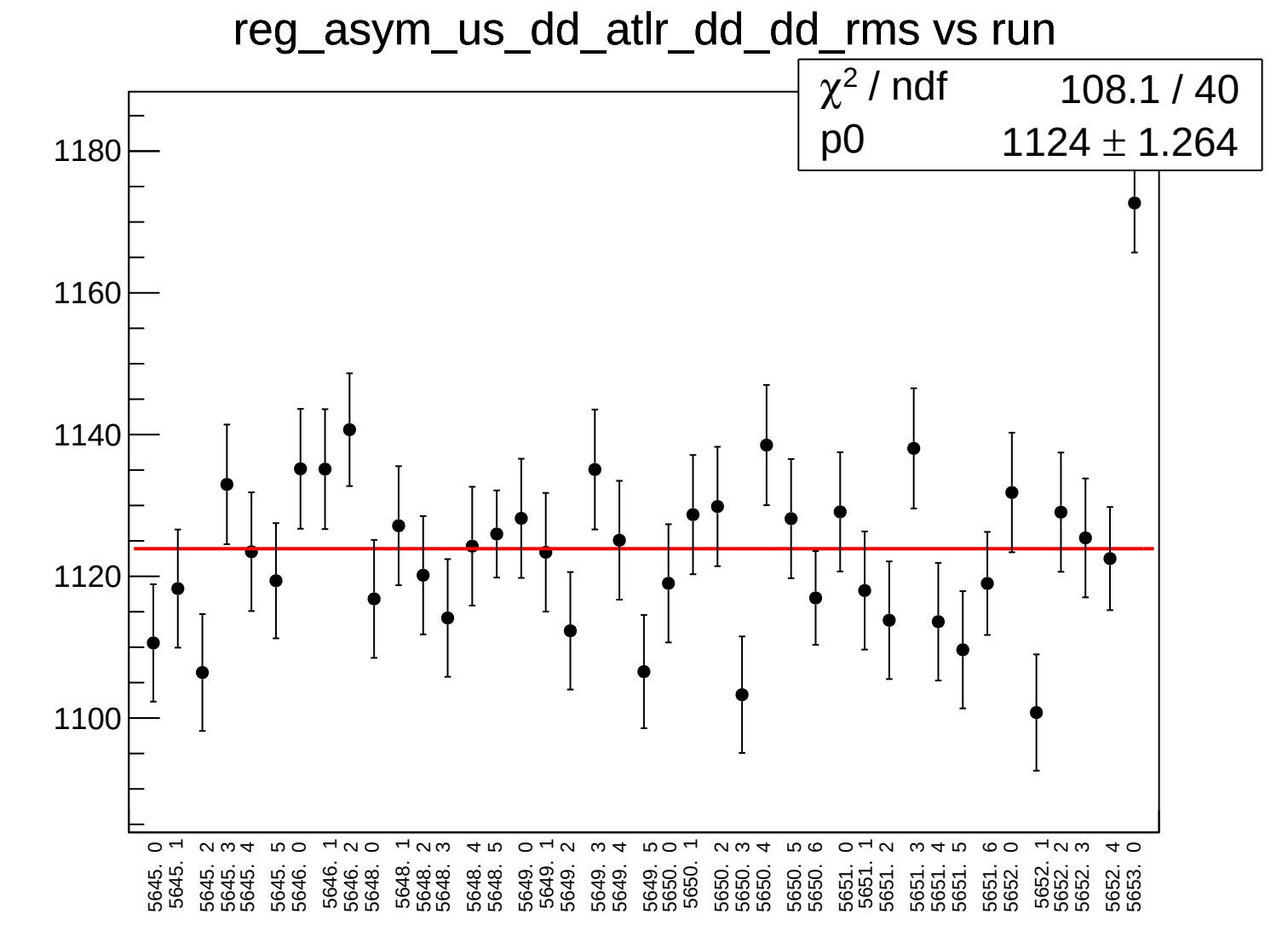

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.19 / 40
p0 3.238e−14 ± 1.19e−13
pull
Entries 41
Mean 7.22
Std Dev 0

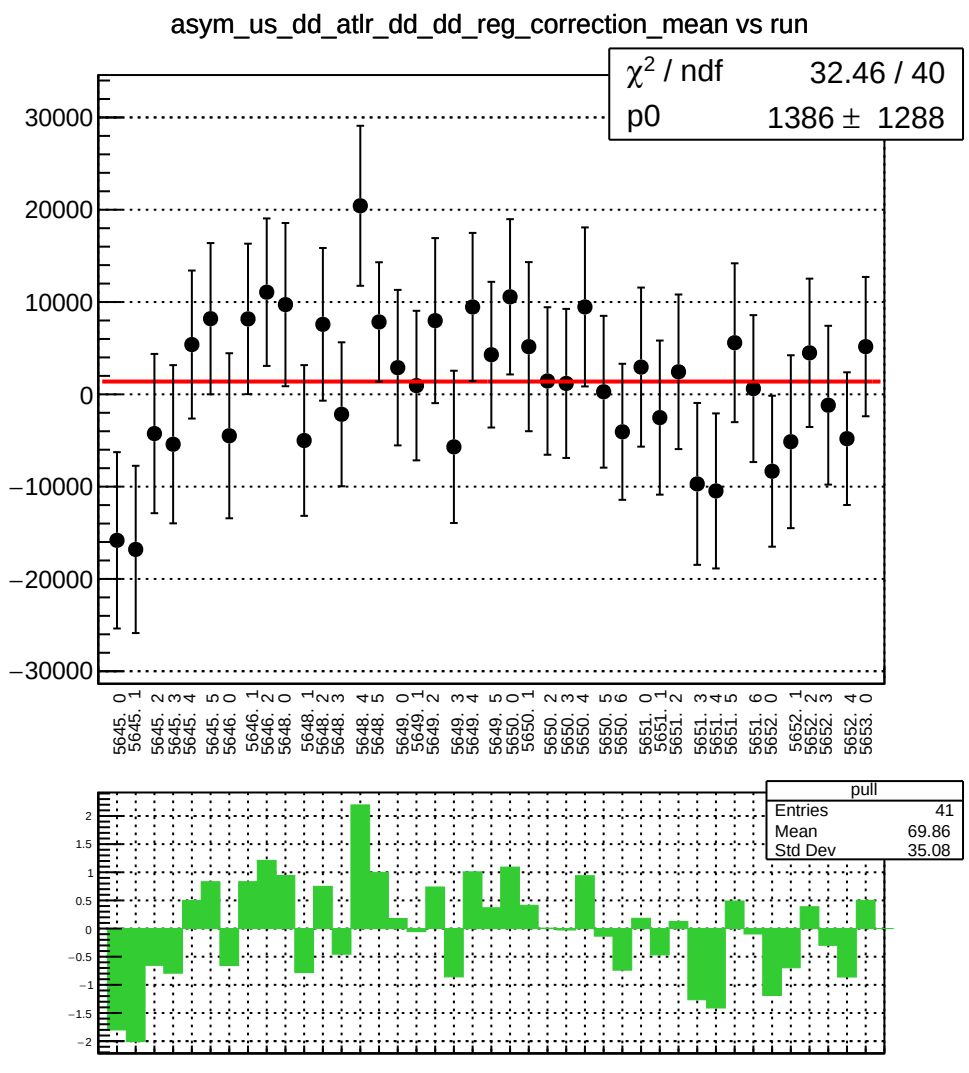

pull1D
Entries 41
Mean −0.1039
Std Dev 0.8373

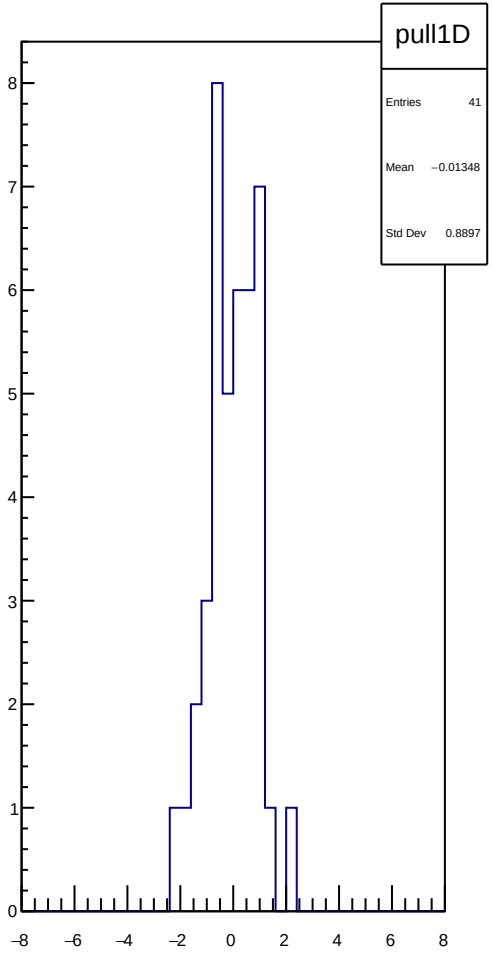

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.745e+05 / 40
p0 6.042e−11 ± 8.412e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

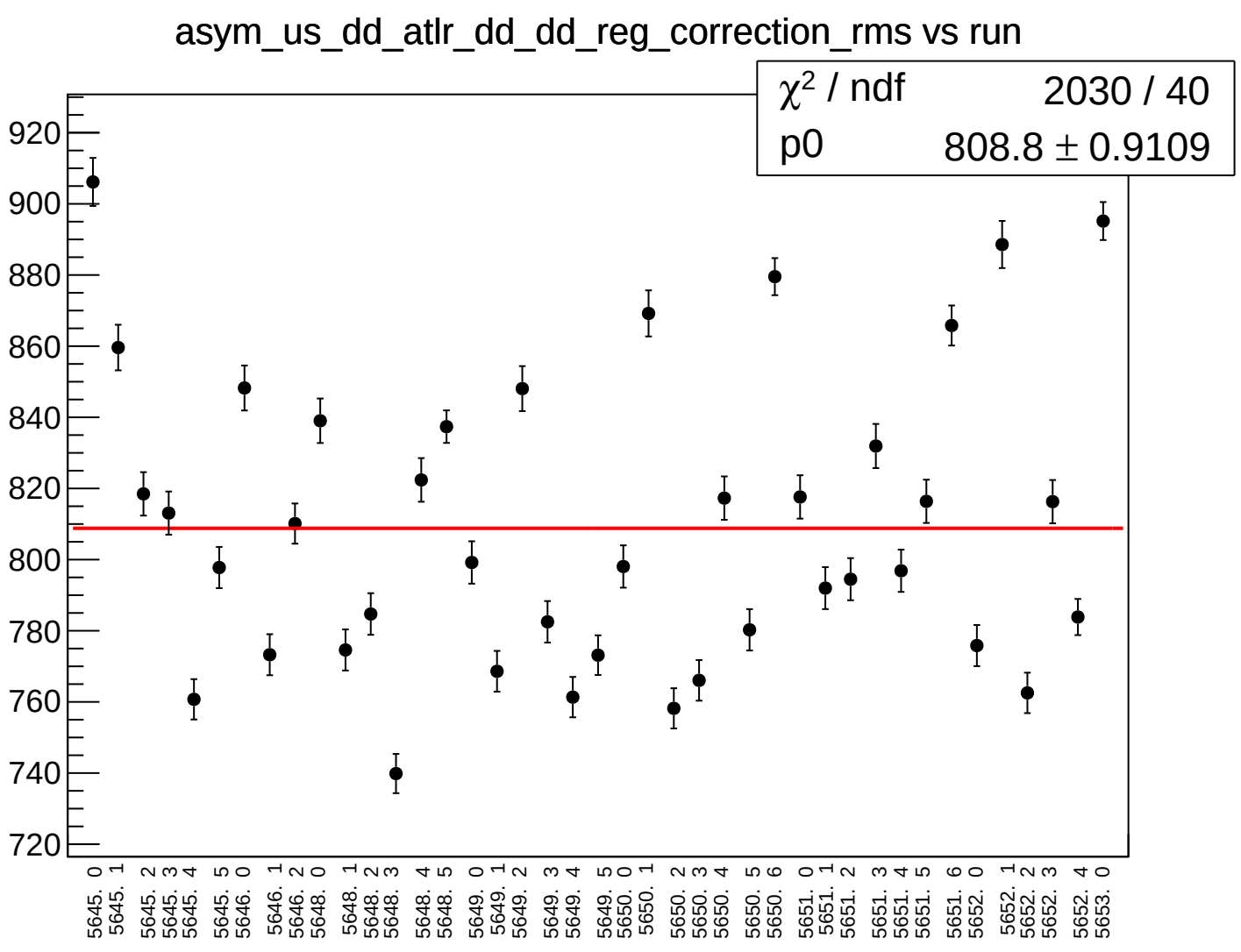

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 44.28 / 40
p0 −1719 ± 1788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1174
Std Dev 0
2
1
0
−1
−2

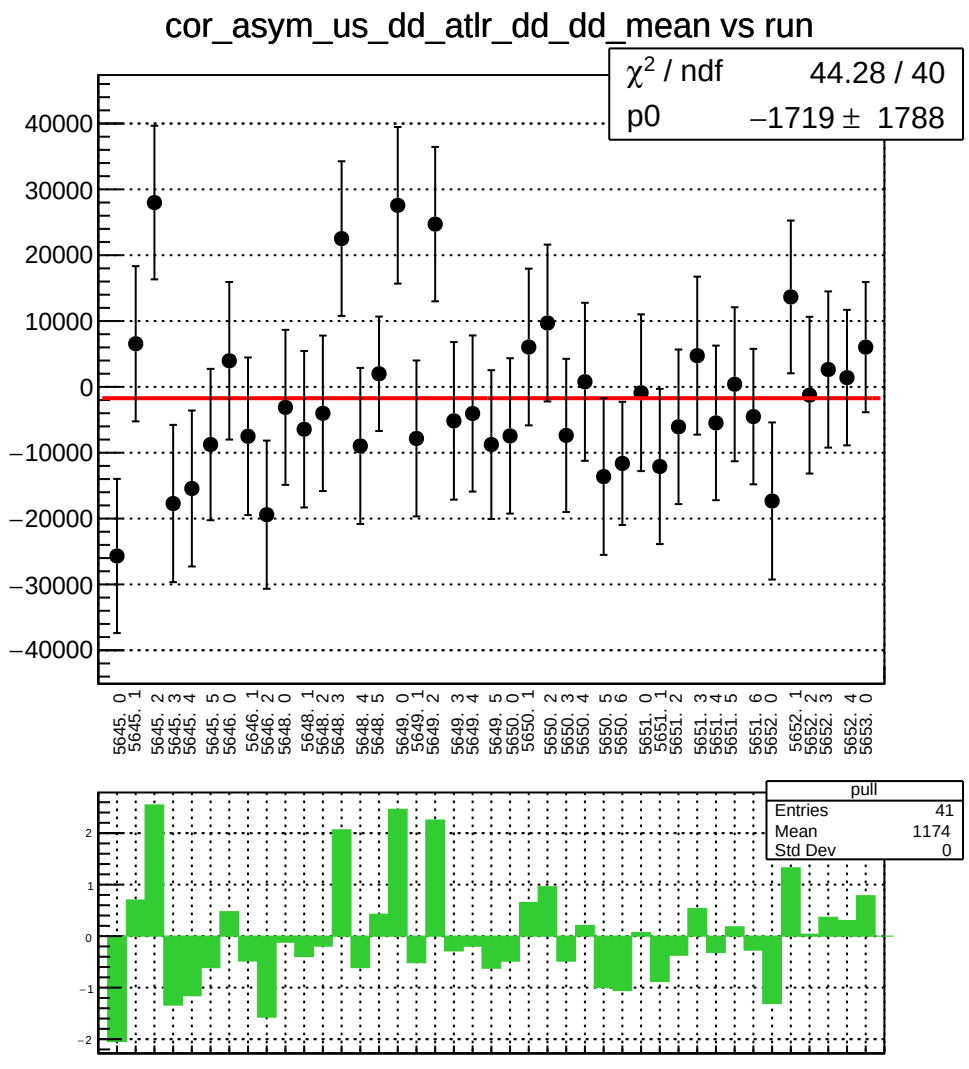

pull1D
Entries 41
Mean 0.0007611
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

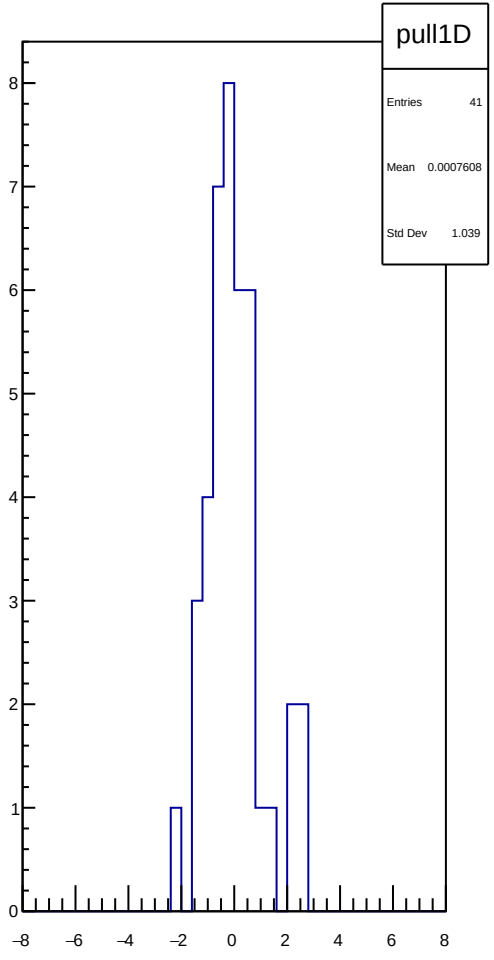

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 108.1 / 40
p0 1124 ± 1.264
1180
1160
1140
1120
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

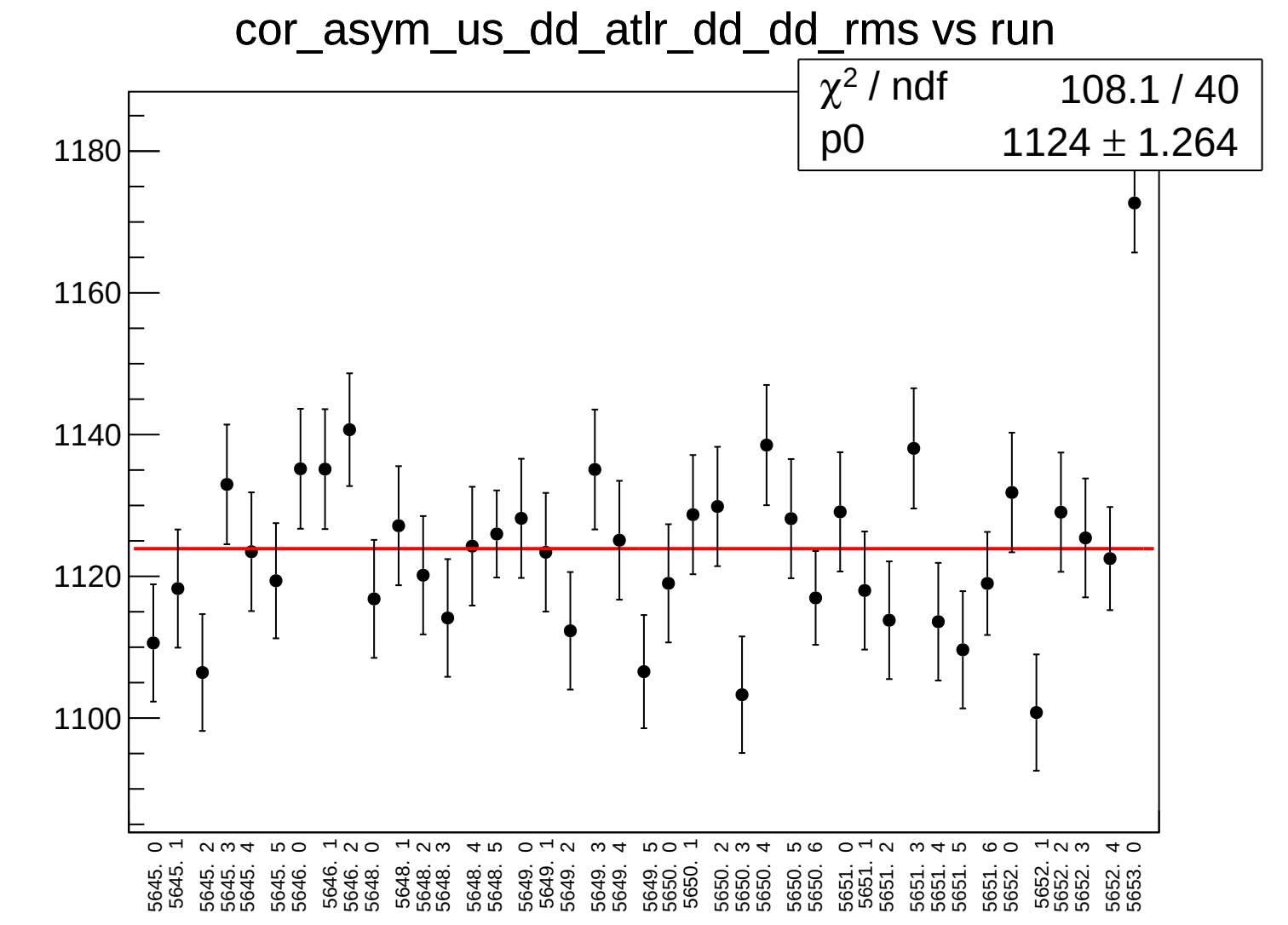

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 32.46 / 40
p0 1386 ± 1288
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 69.86
Std Dev 35.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

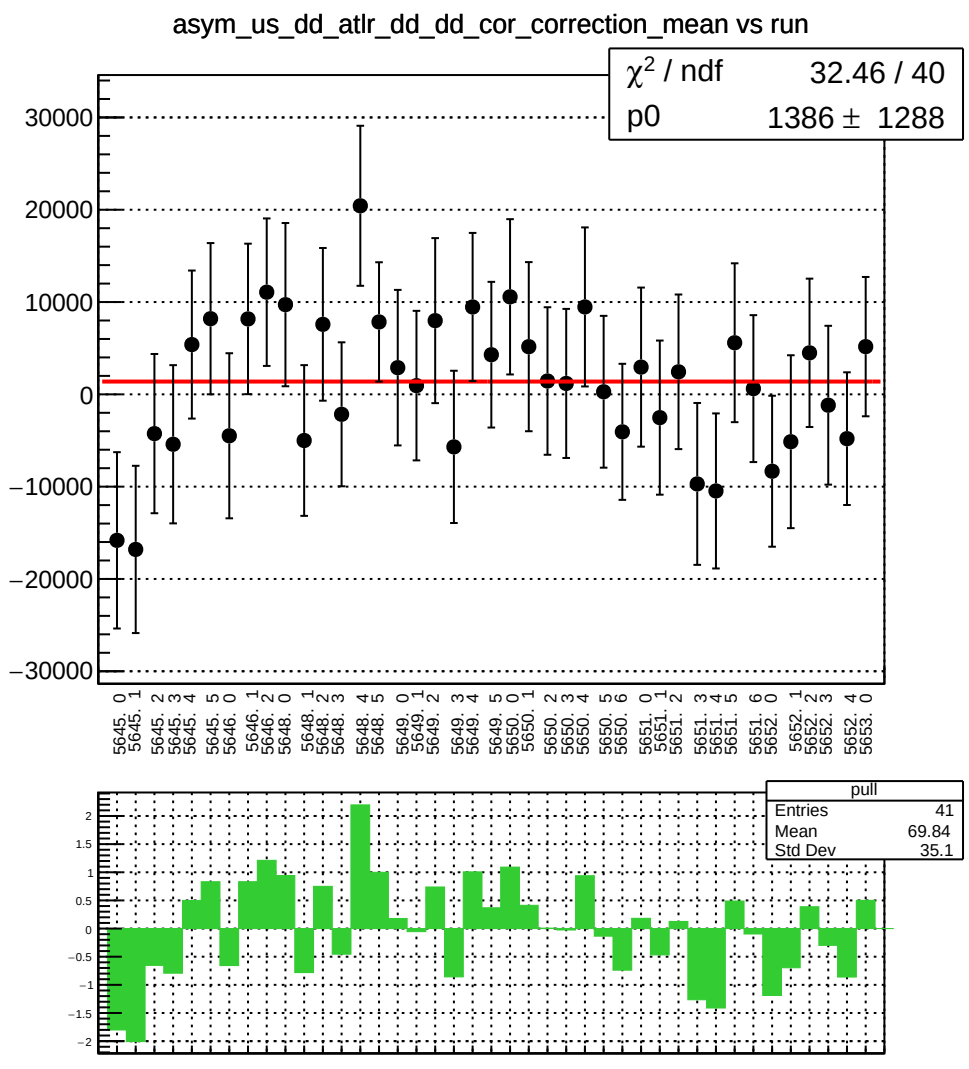

pull1D
Entries 41
Mean −0.01348
Std Dev 0.8897
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

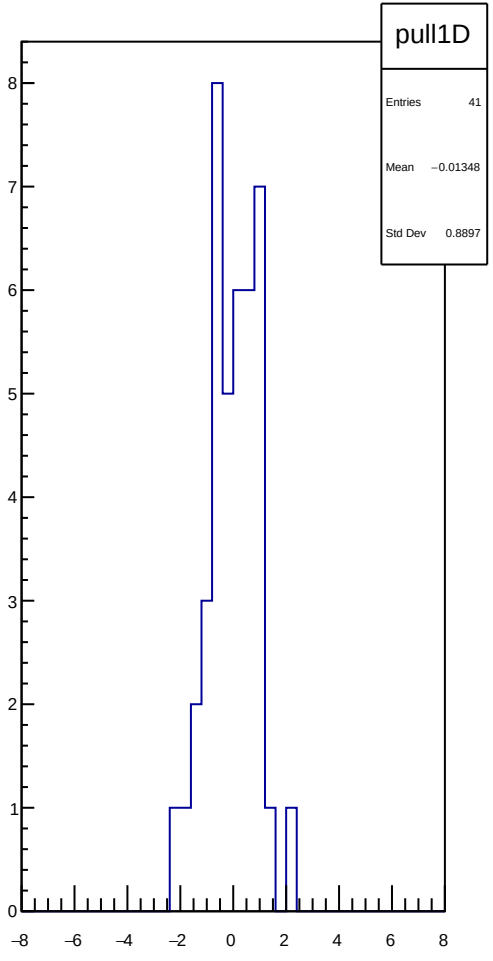

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2030 / 40
p0 808.8 ± 0.9109
920
900
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

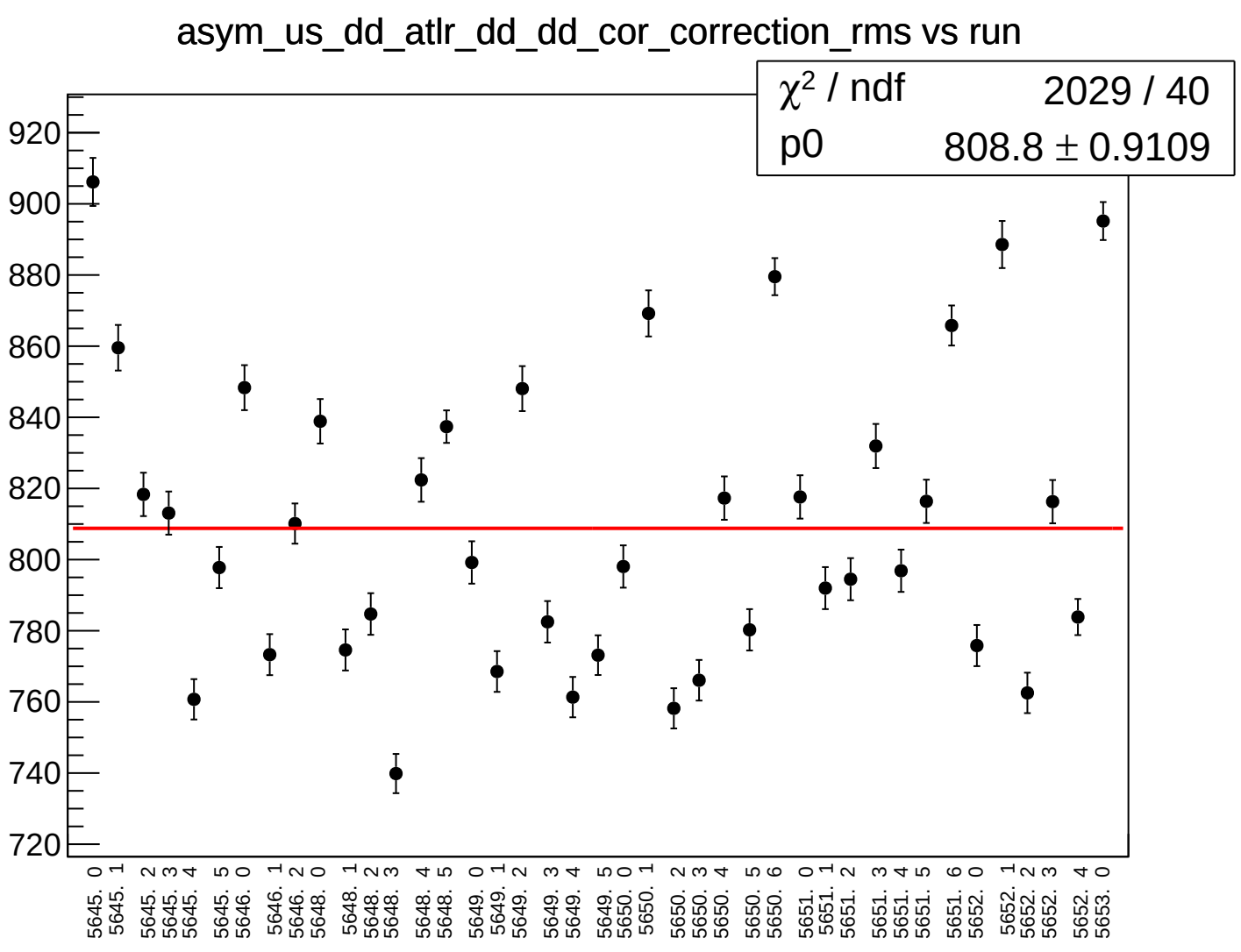

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 44.28 / 40
p0 −1719 ± 1788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1174
Std Dev 0
2
1
0
−1
−2

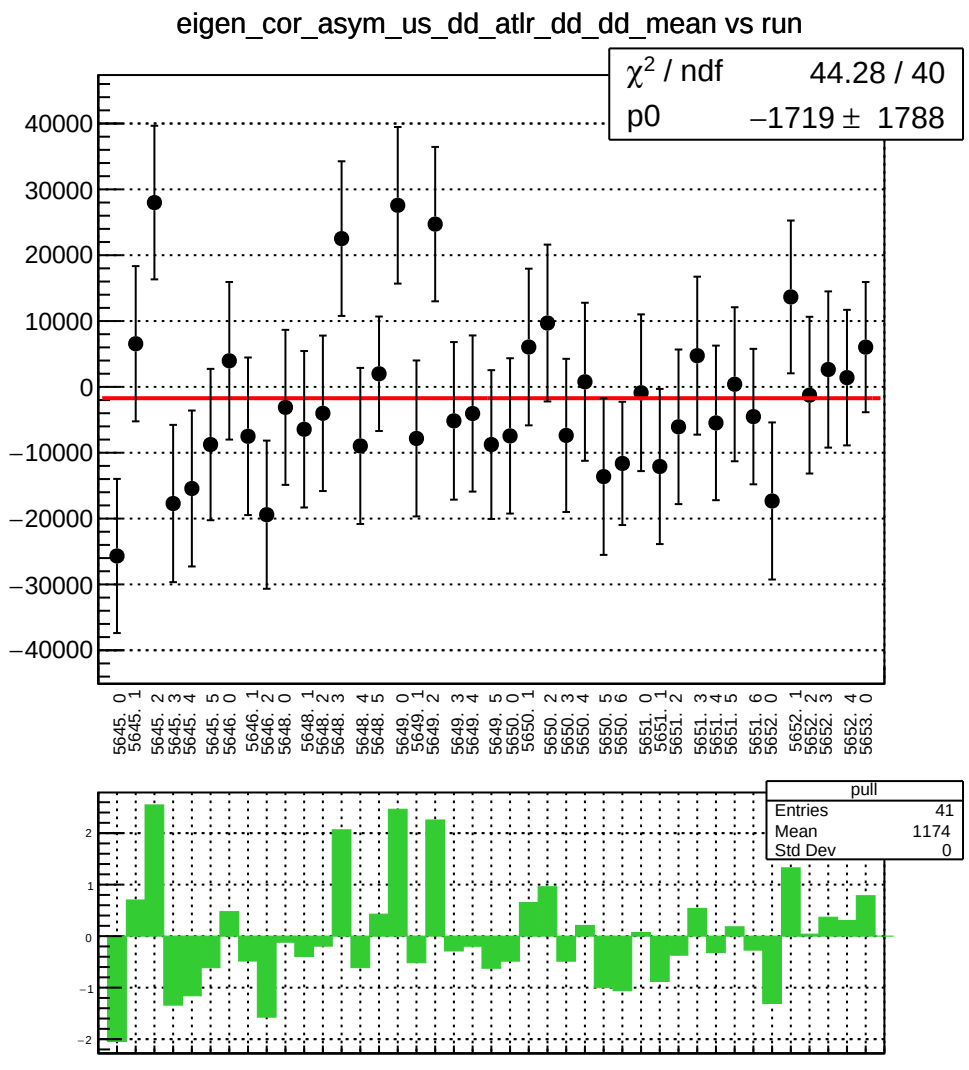

pull1D
Entries 41
Mean 0.0007608
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

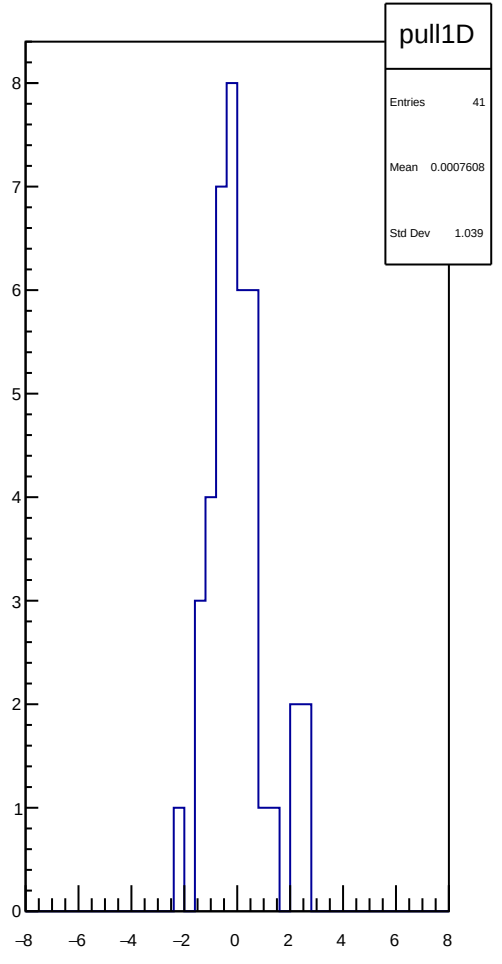

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 108.1 / 40
p0 1124 ± 1.264
1180
1160
1140
1120
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

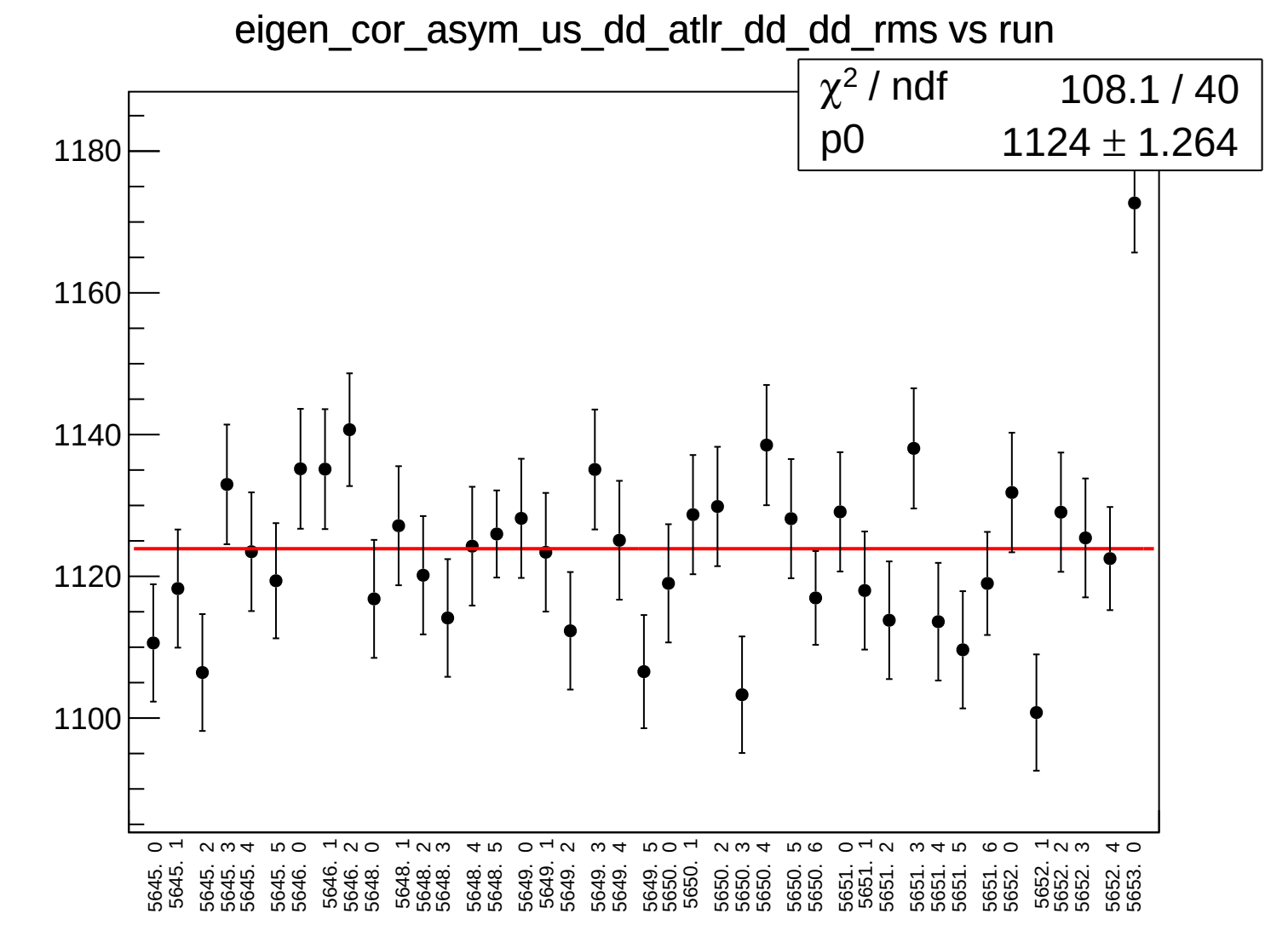

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 32.46 / 40
p0 1386 ± 1288
pull
Entries 41
Mean 69.84
Std Dev 35.1

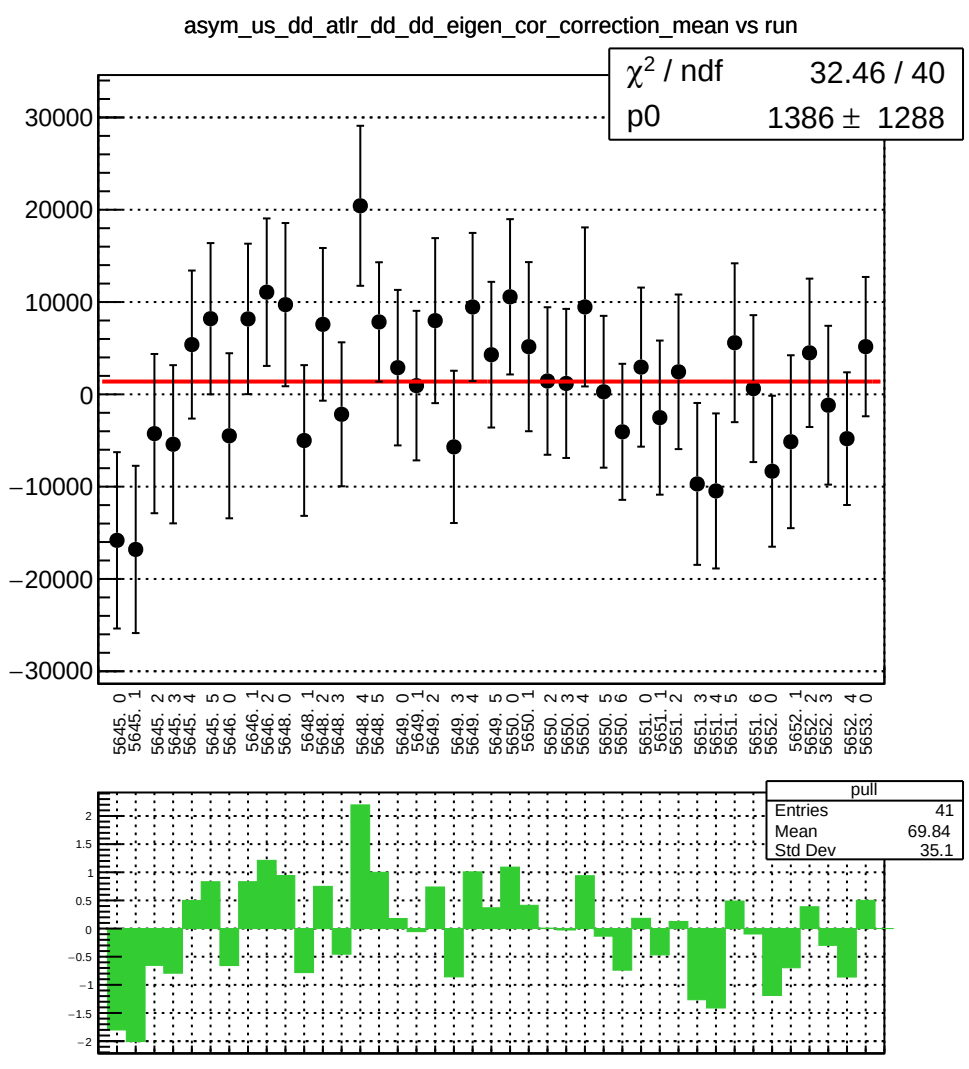

pull1D
Entries 41
Mean −0.01348
Std Dev 0.8897

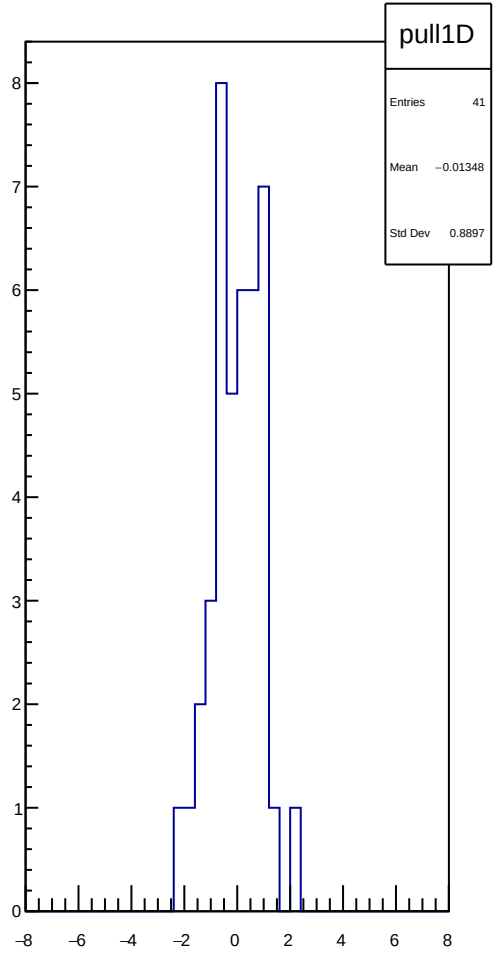

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2029 / 40
p0 808.8 ± 0.9109
920
900
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

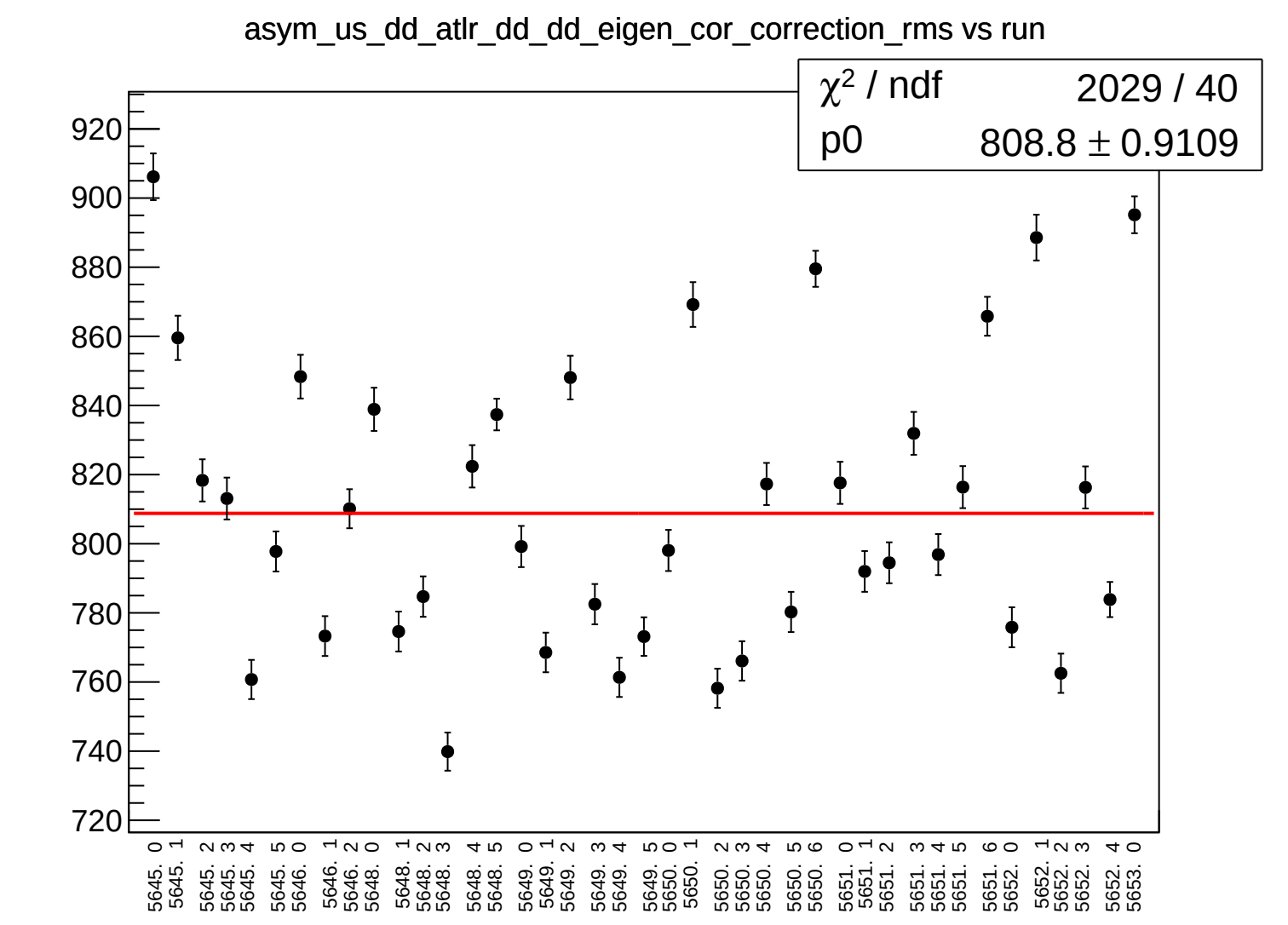

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 44.28 / 40
p0 −1719 ± 1788
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1174
Std Dev 0
2
1
0
−1
−2

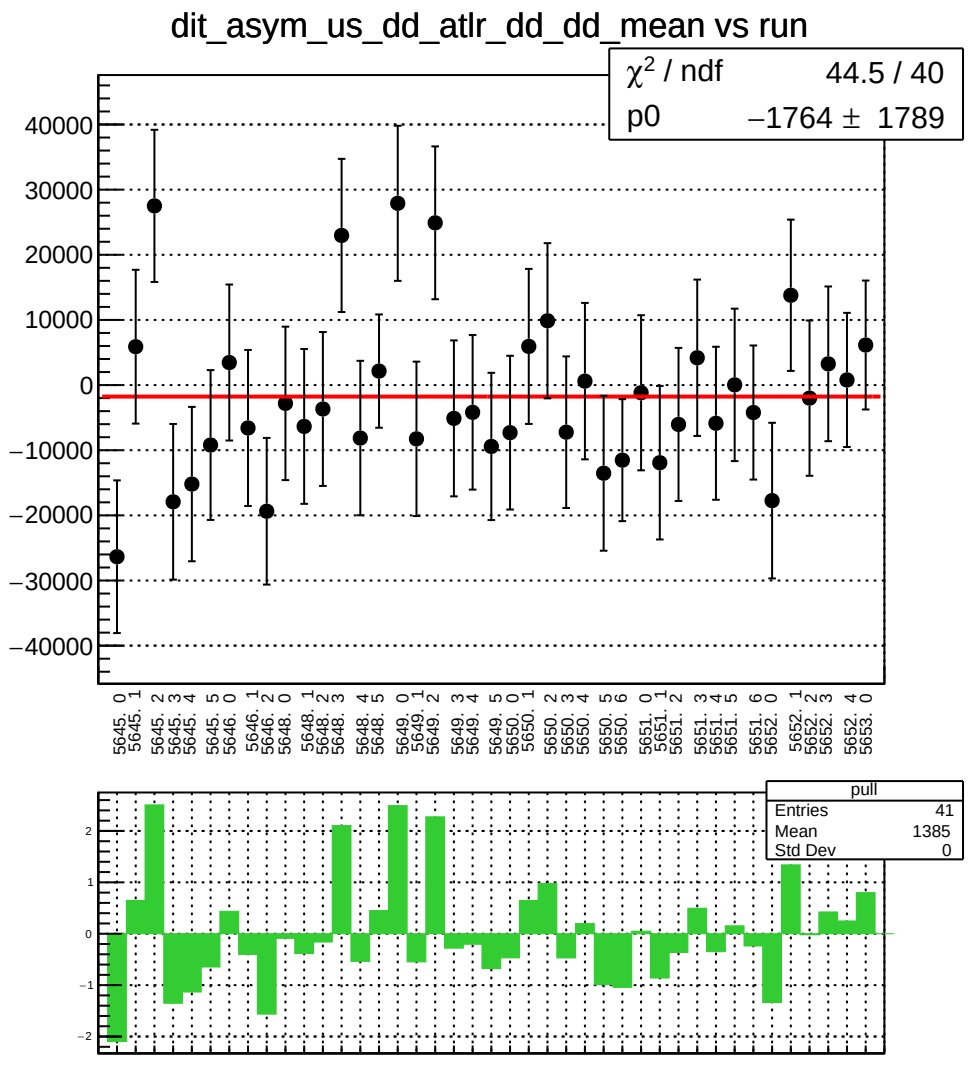

pull1D
Entries 41
Mean 0.0007608
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

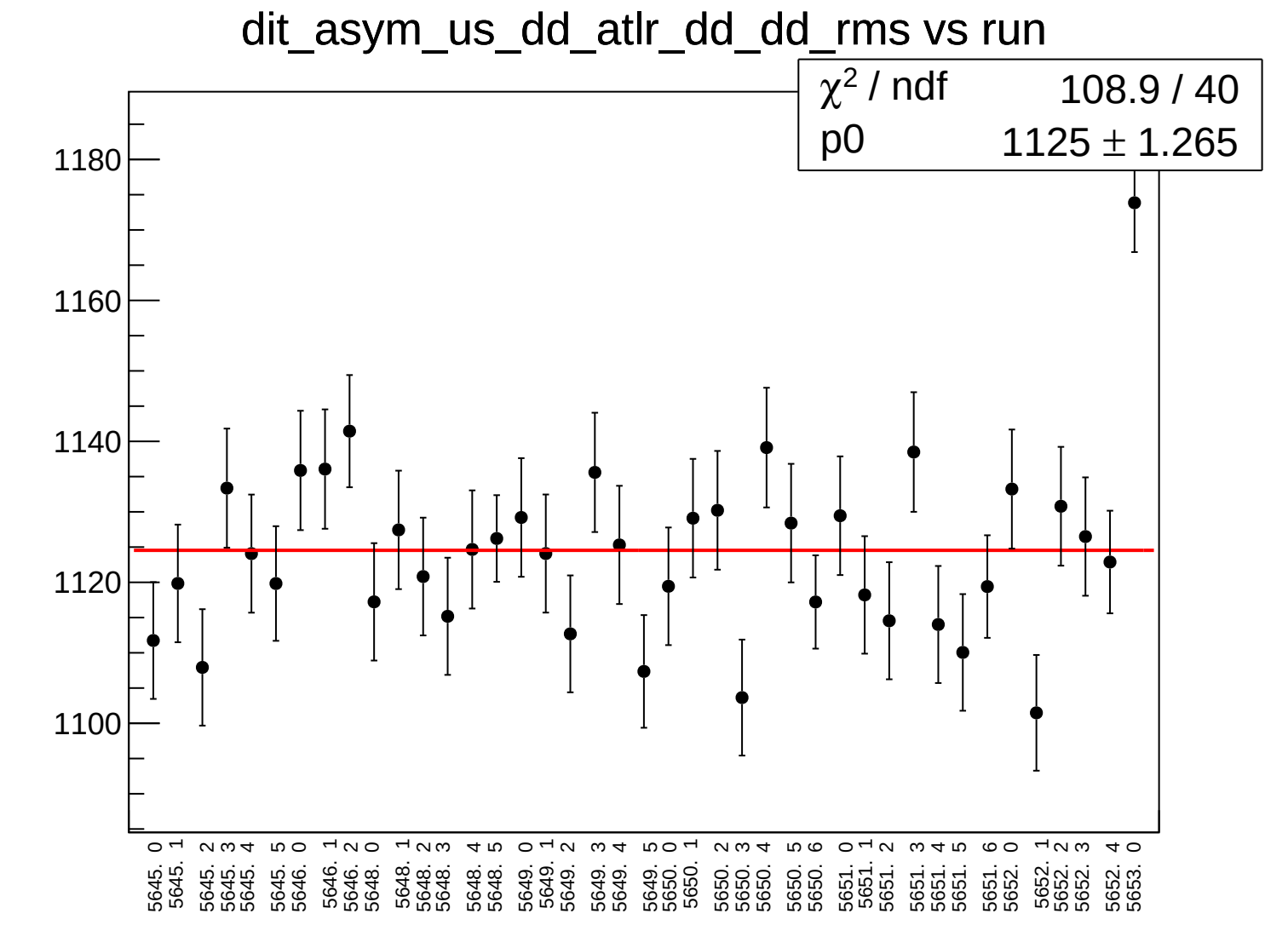

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 108.1 / 40
p0 1124 ± 1.264
1180
1160
1140
1120
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

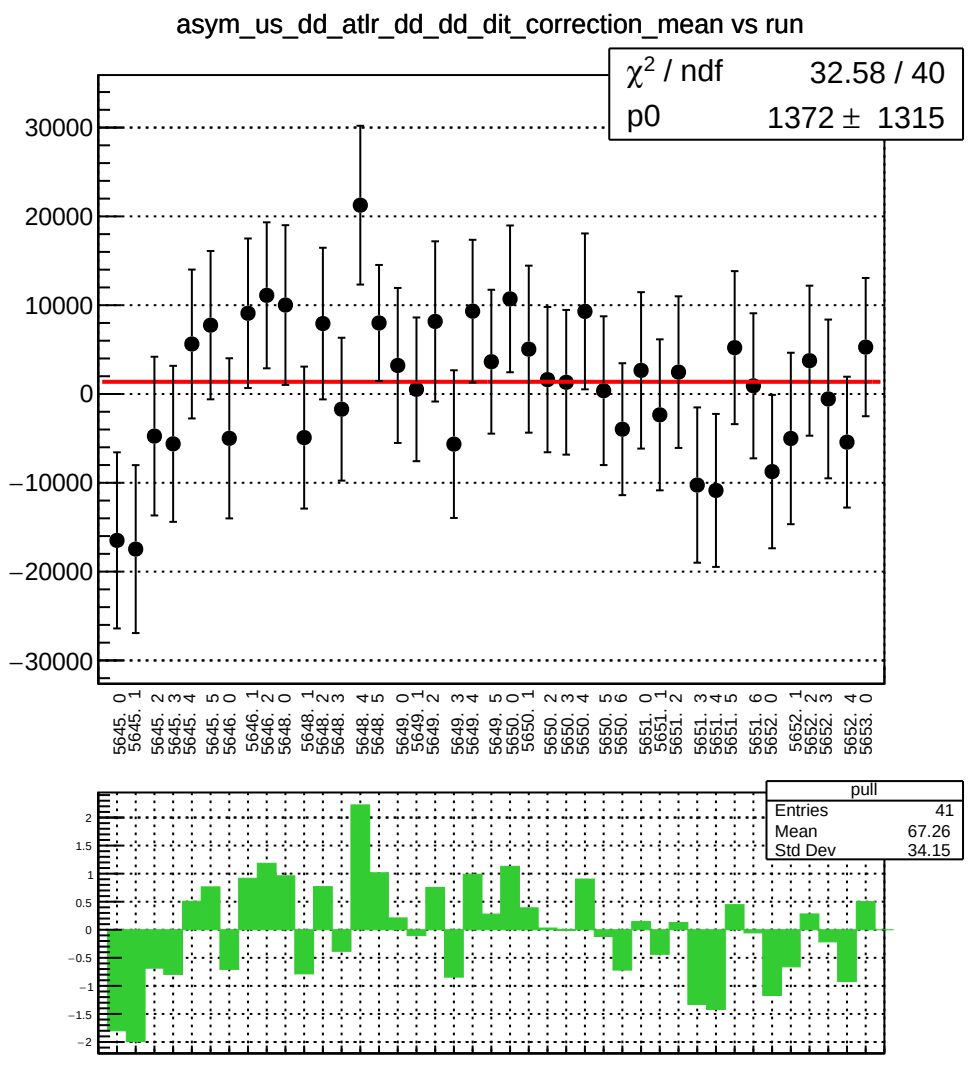

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.46 / 40
p0 1386 ± 1288
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 69.84
Std Dev 35.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

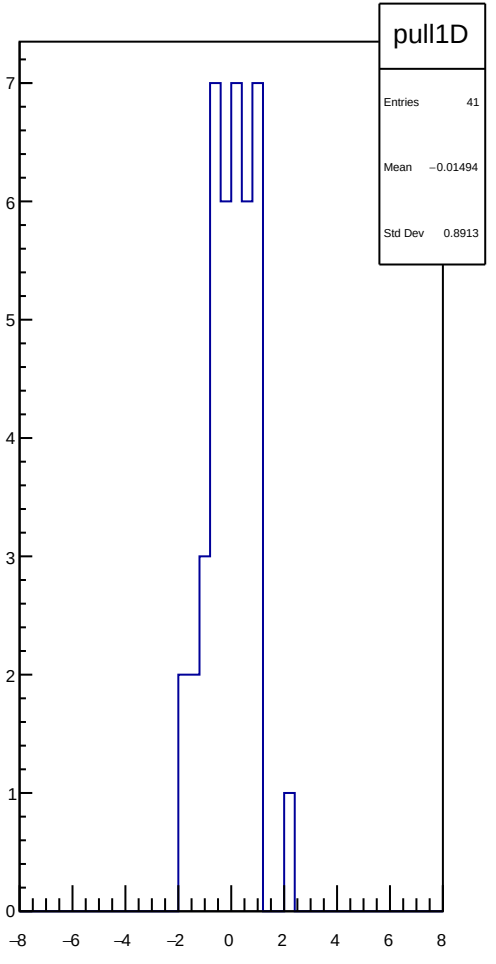

pull1D
Entries 41
Mean −0.01348
Std Dev 0.8897
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

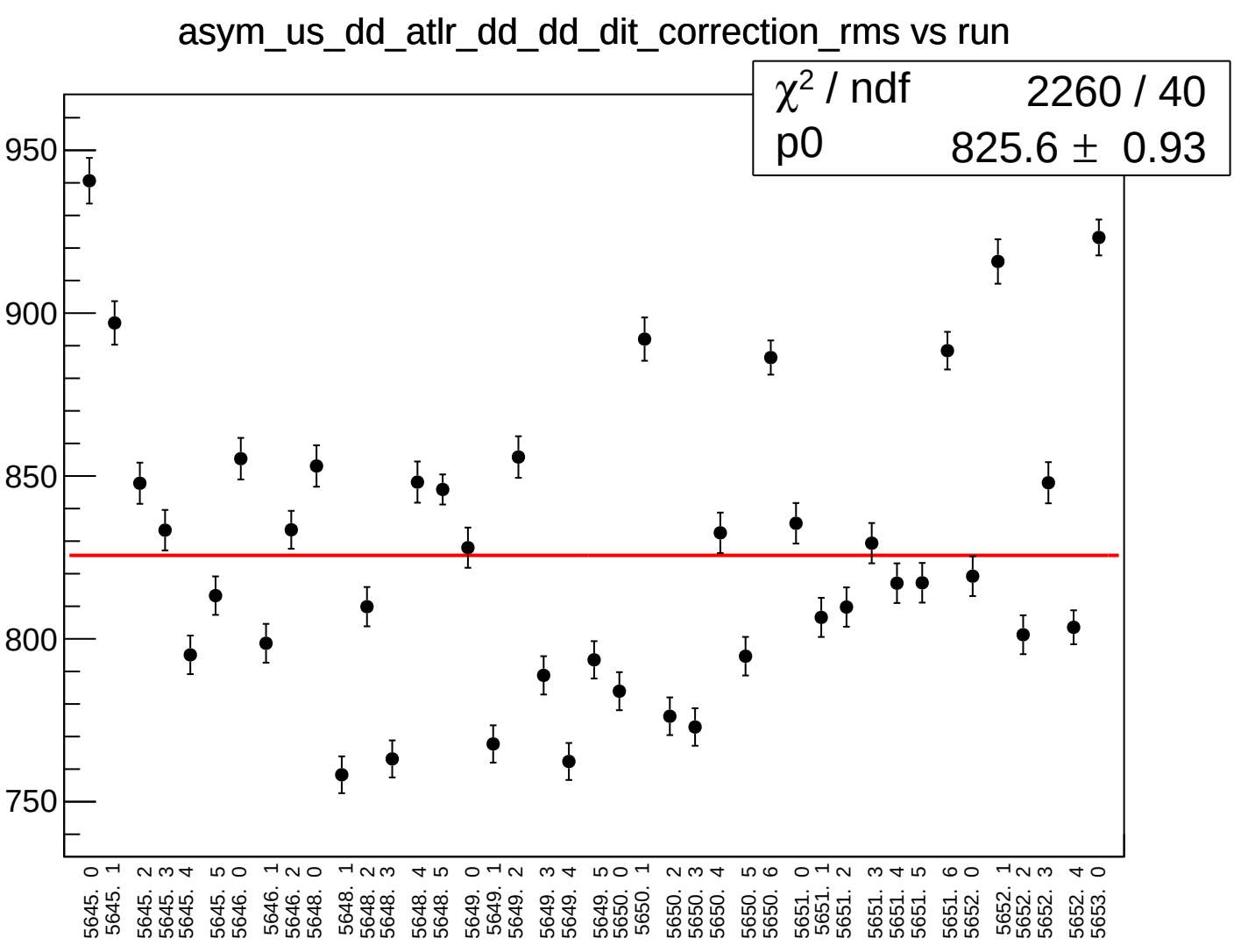

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2029 / 40
p0 808.8 ± 0.9109
920
900
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

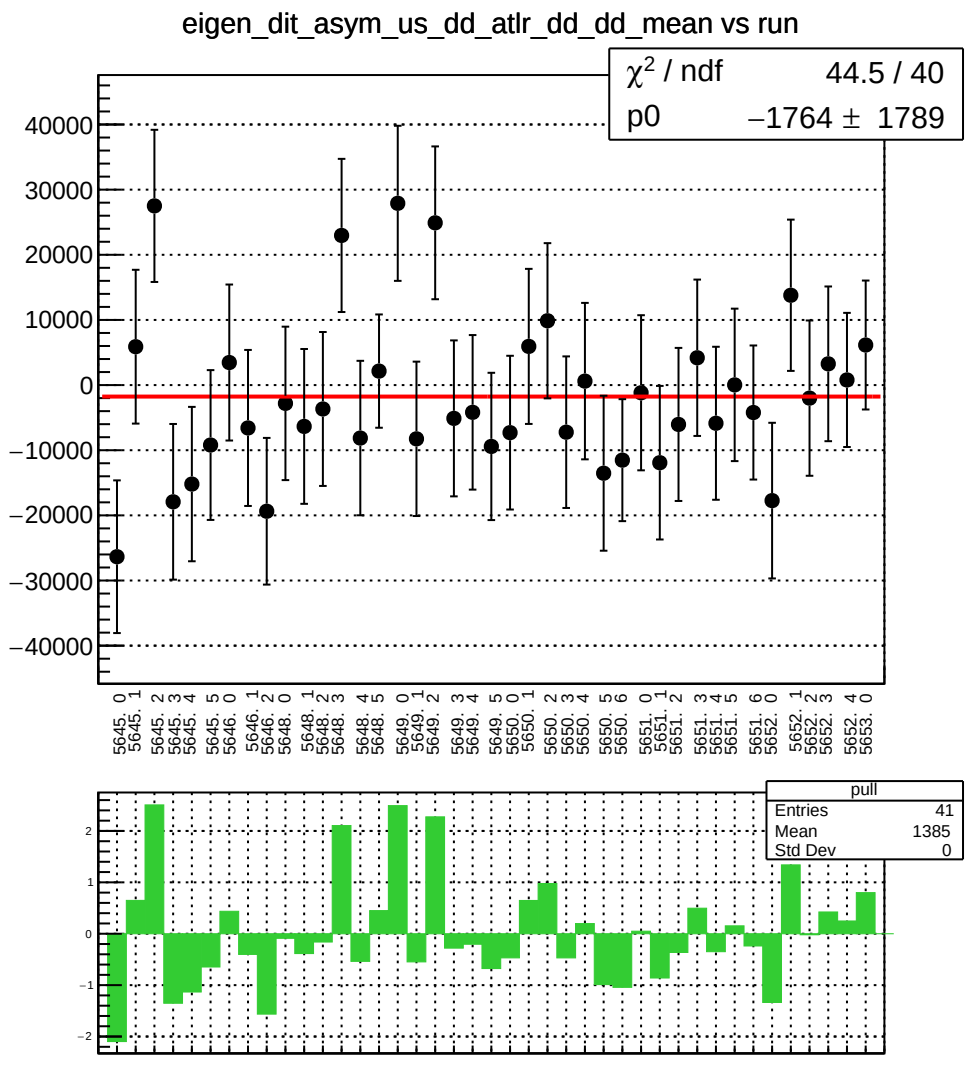

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 44.5 / 40
p0 −1764 ± 1789
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1385
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0006314
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

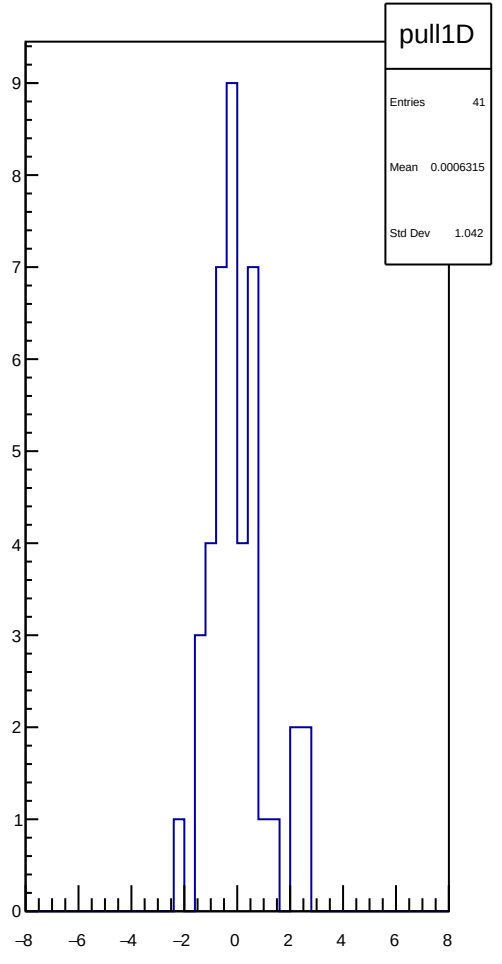

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 108.9 / 40
p0 1125 ± 1.265
1180
1160
1140
1120
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

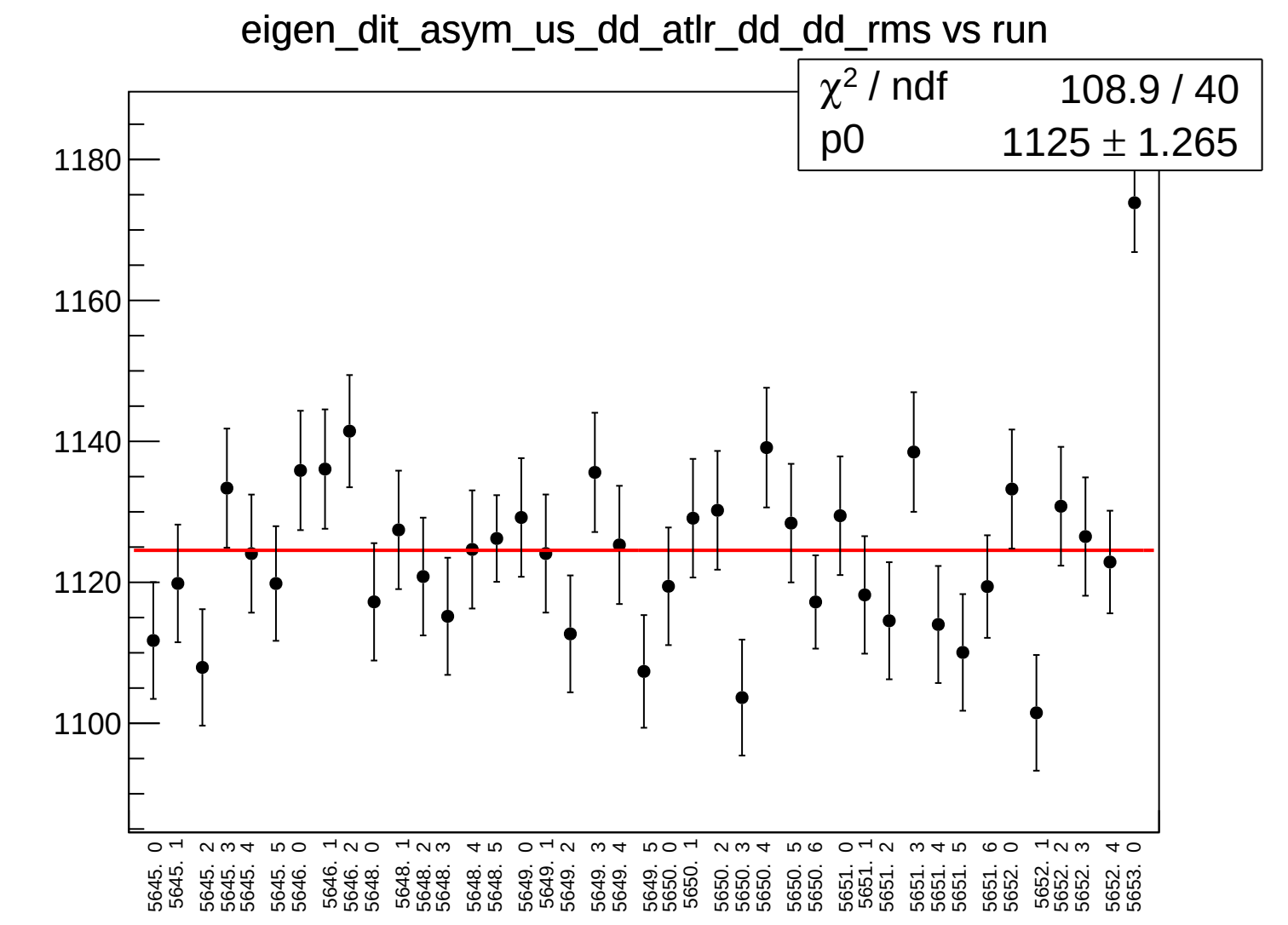

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 32.58 / 40
p0 1372 ± 1315
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 67.26
Std Dev 34.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

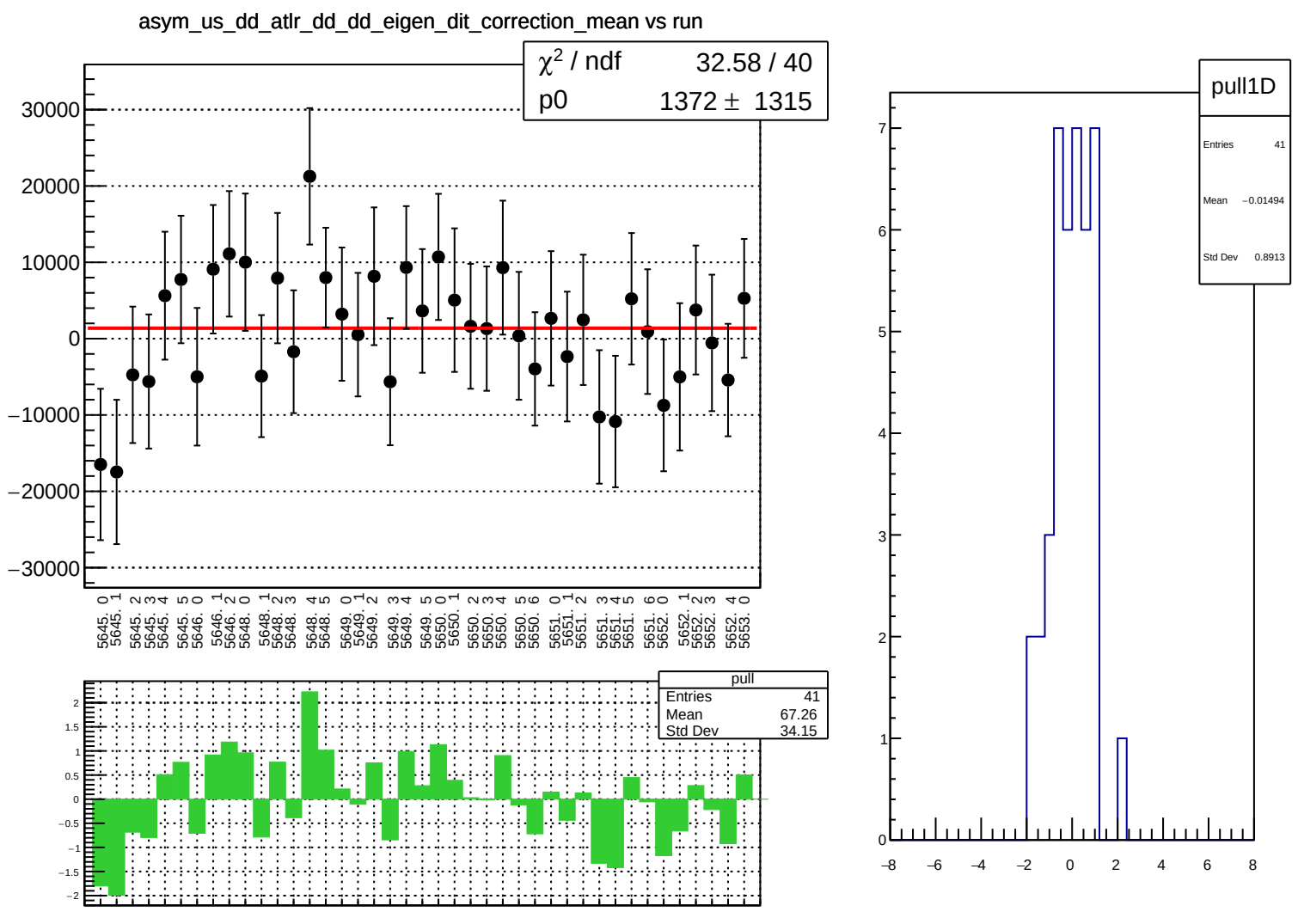

pull1D
Entries 41
Mean −0.01494
Std Dev 0.8913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

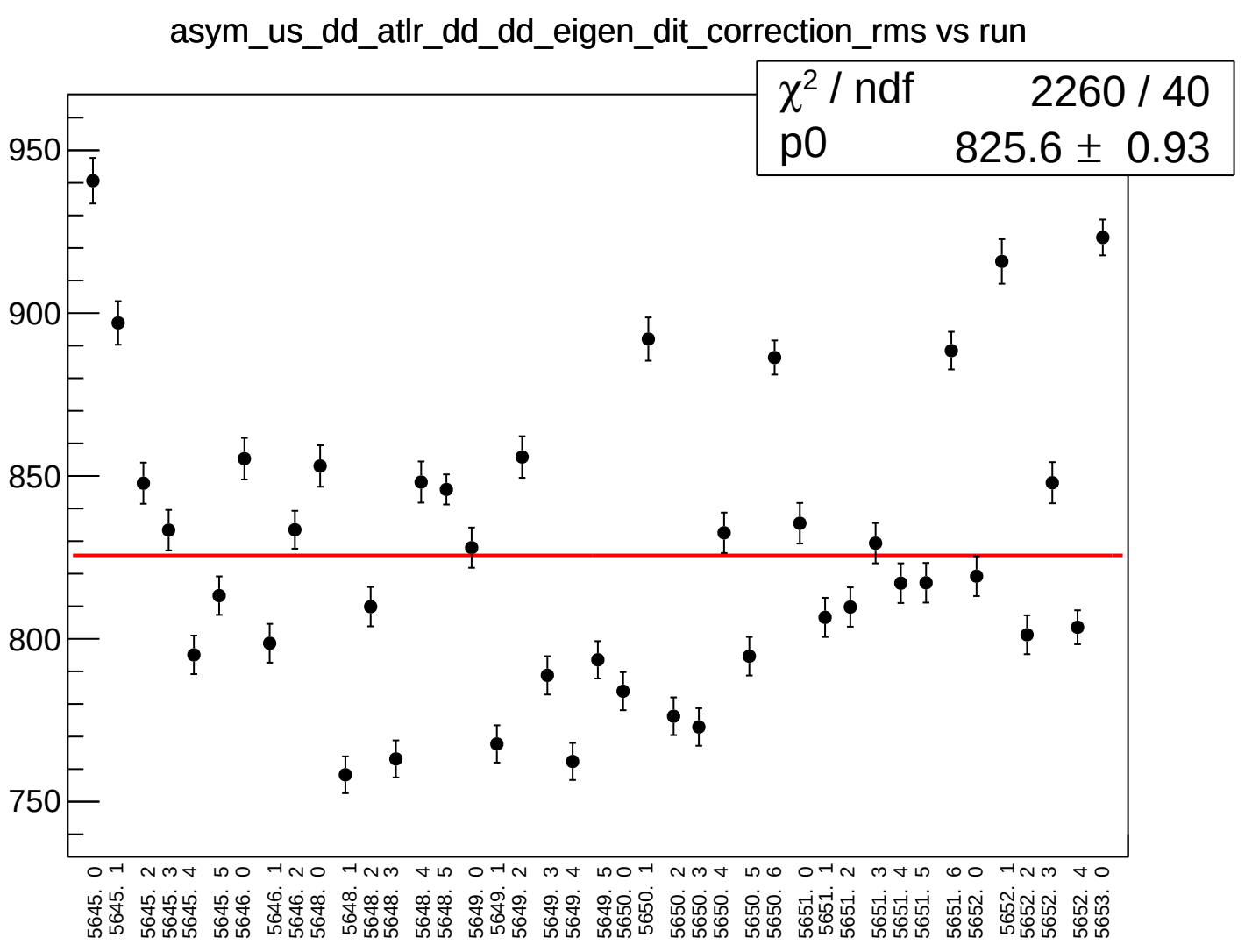

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2260 / 40
p0 825.6 ± 0.93
950
900
850
800
750
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

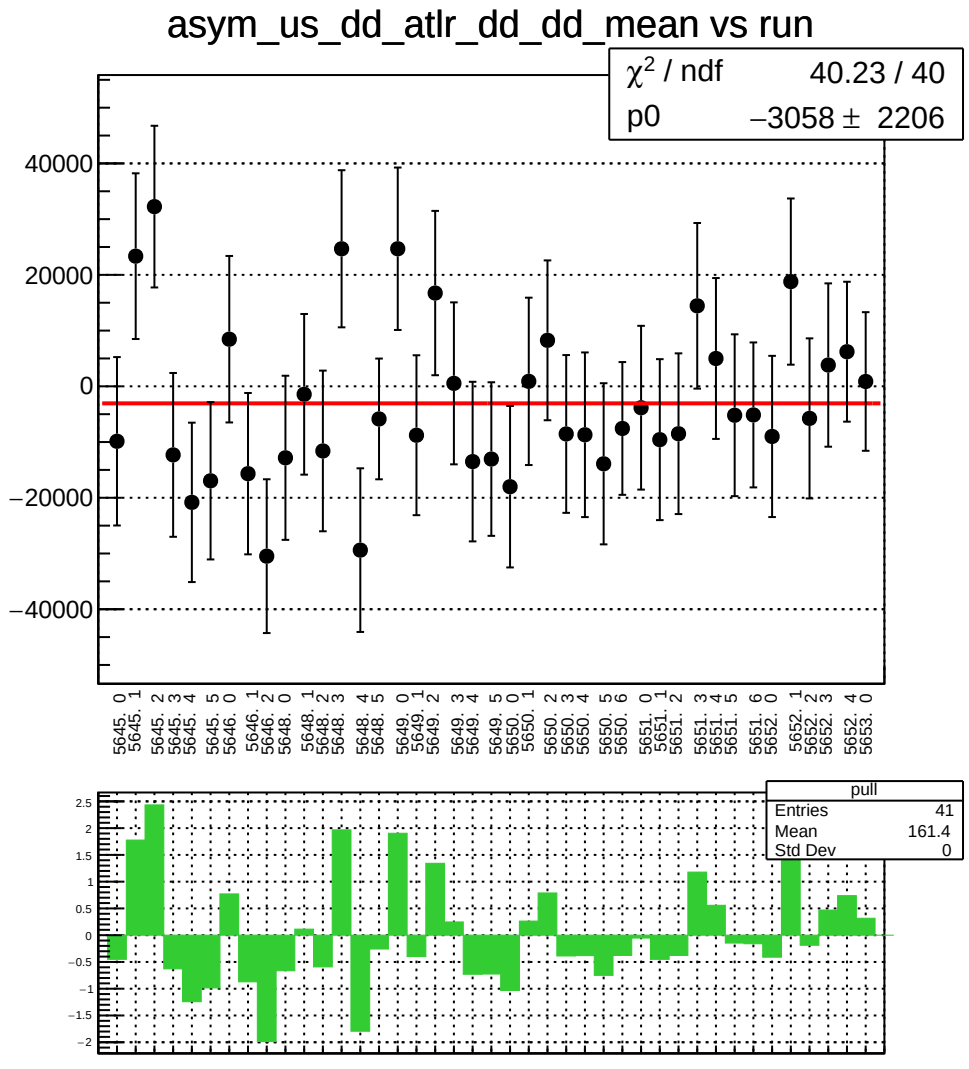

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 44.5 / 40
p0 −1764 ± 1789
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1385
Std Dev 0
2
1
0
−1
−2

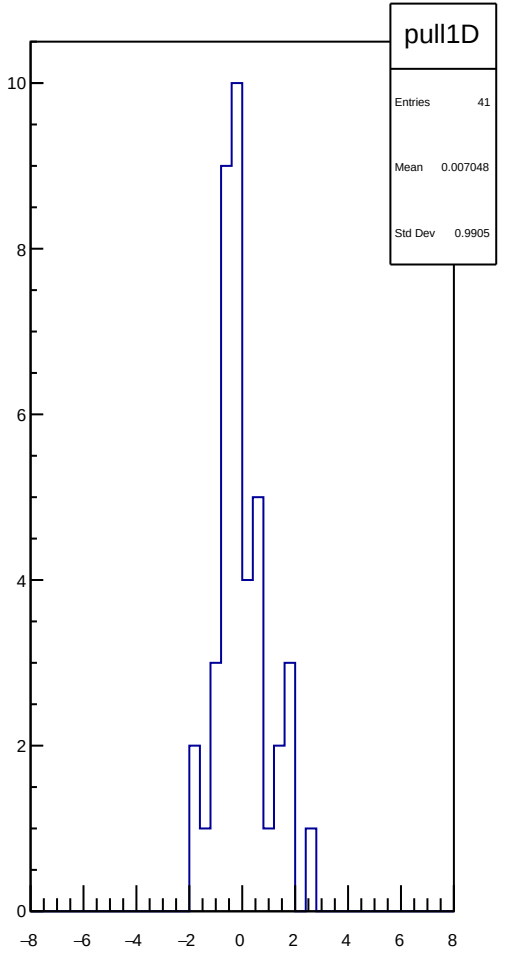

pull1D
Entries 41
Mean 0.0006315
Std Dev 1.042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

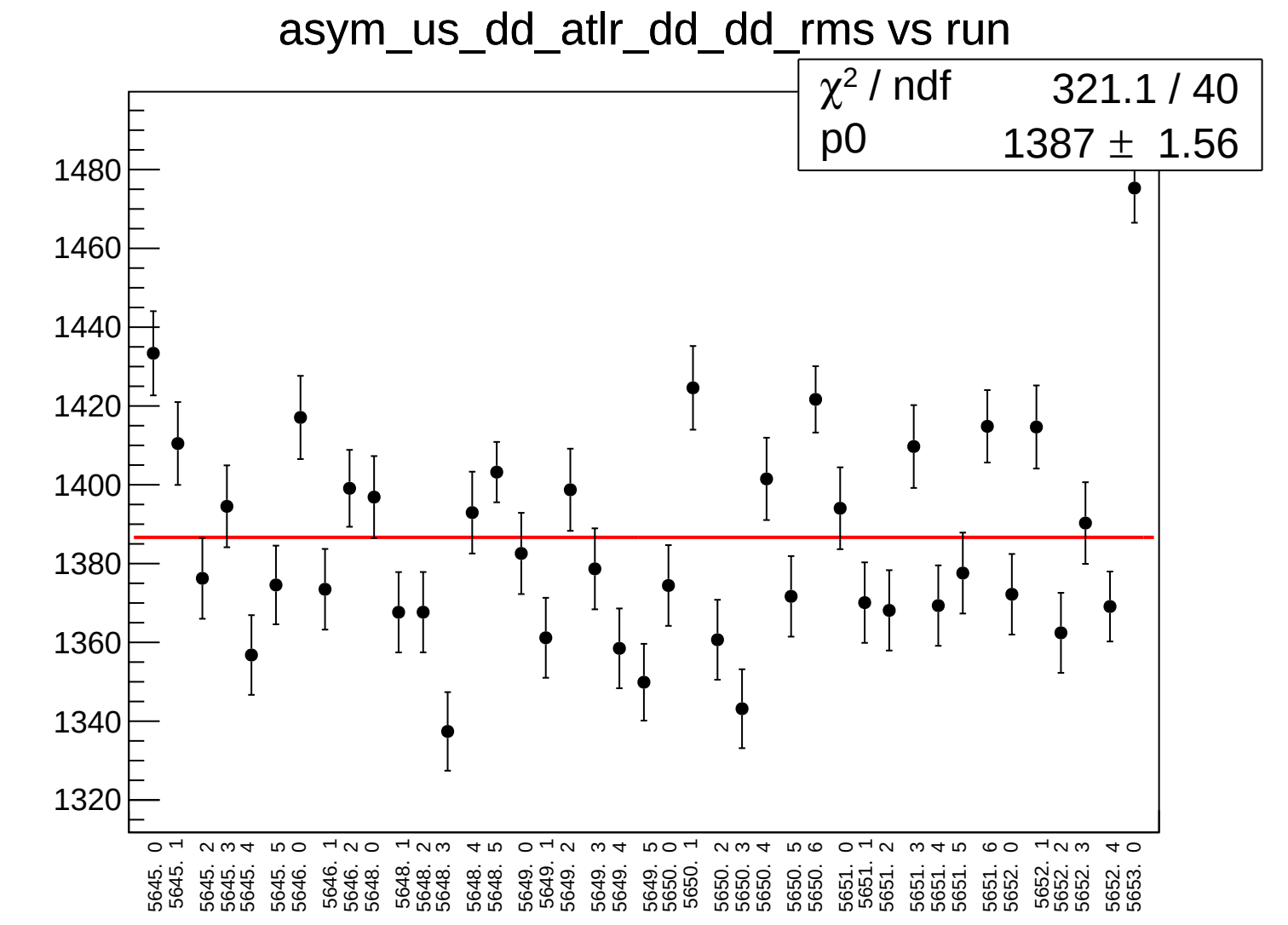

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 108.9 / 40
p0 1125 ± 1.265
1180
1160
1140
1120
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

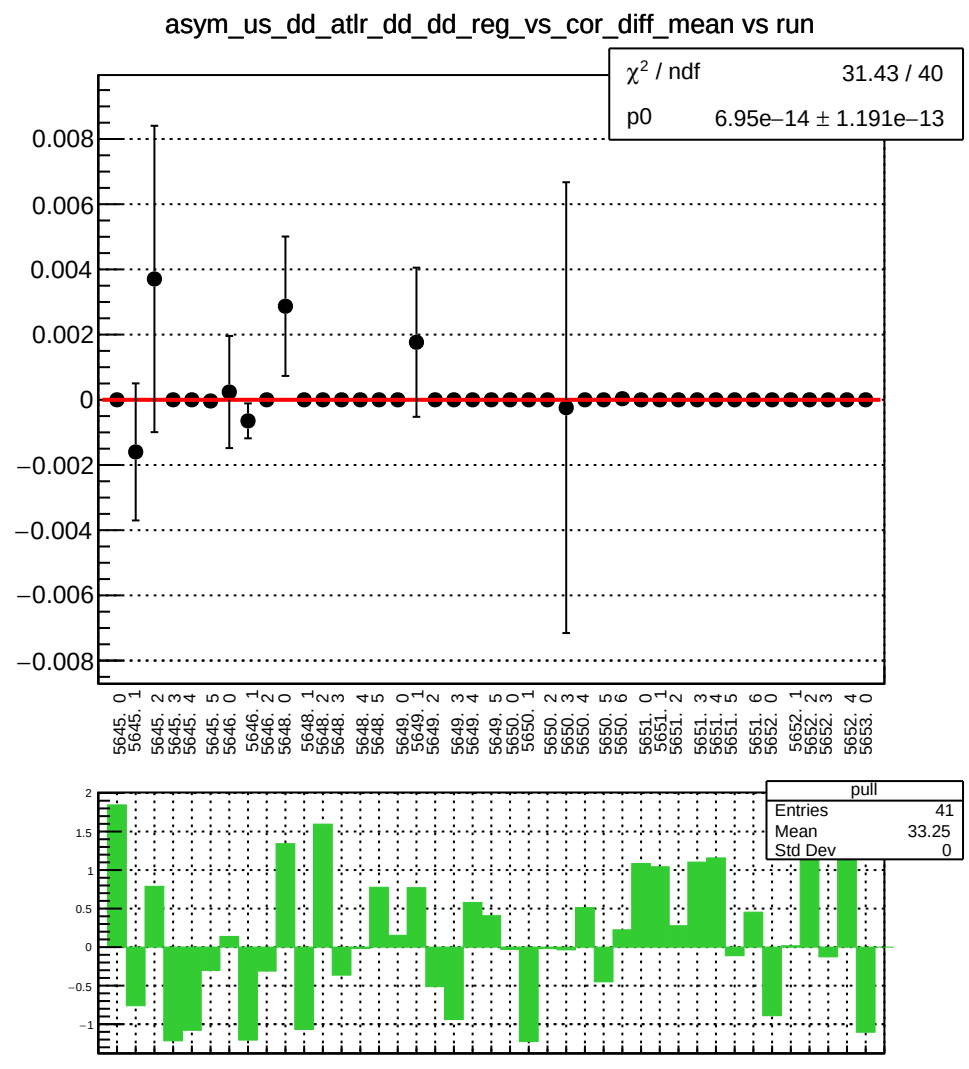

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.58 / 40
p0 1372 ± 1315
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 67.26
Std Dev 34.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01494
Std Dev 0.8913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

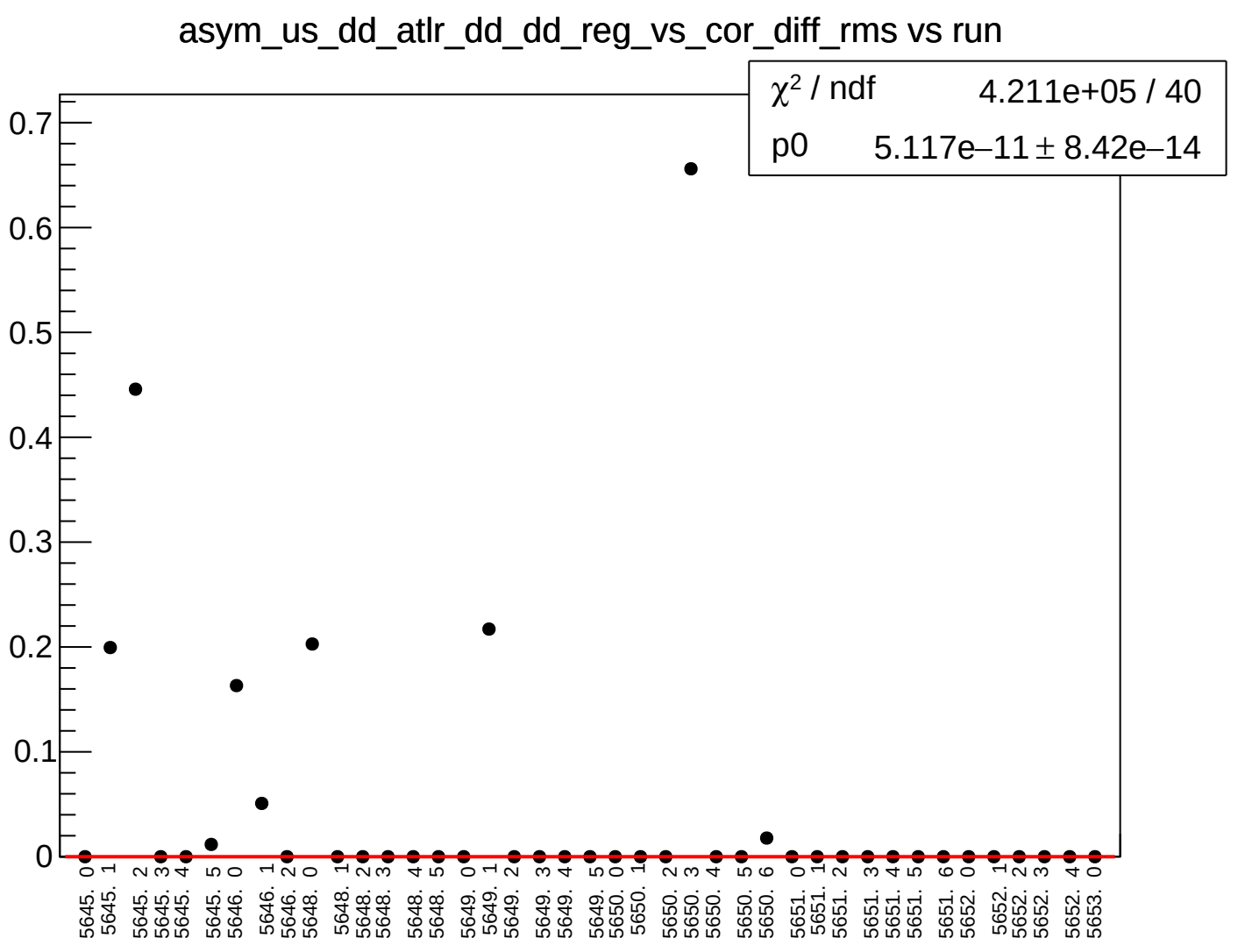

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2260 / 40
p0 825.6 ± 0.93
950
900
850
800
750
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

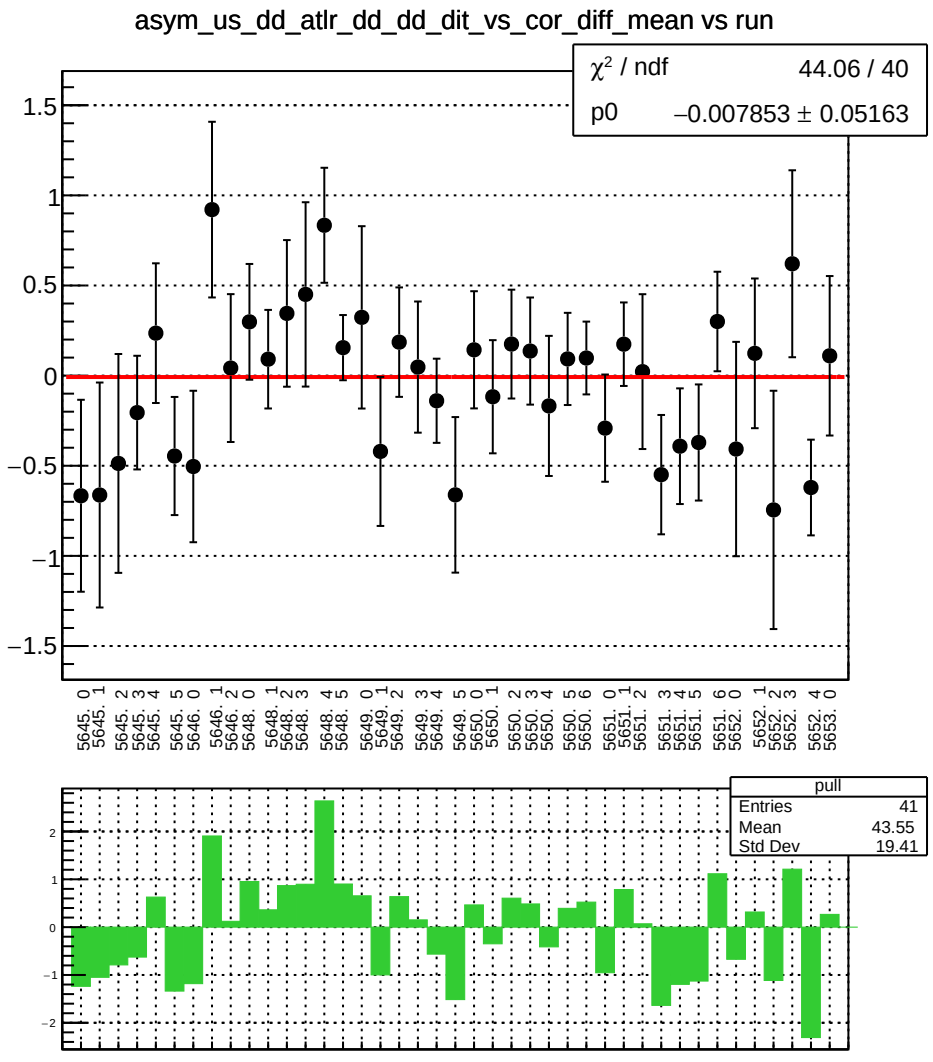

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 40.23 / 40
p0 −3058 ± 2206
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 161.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

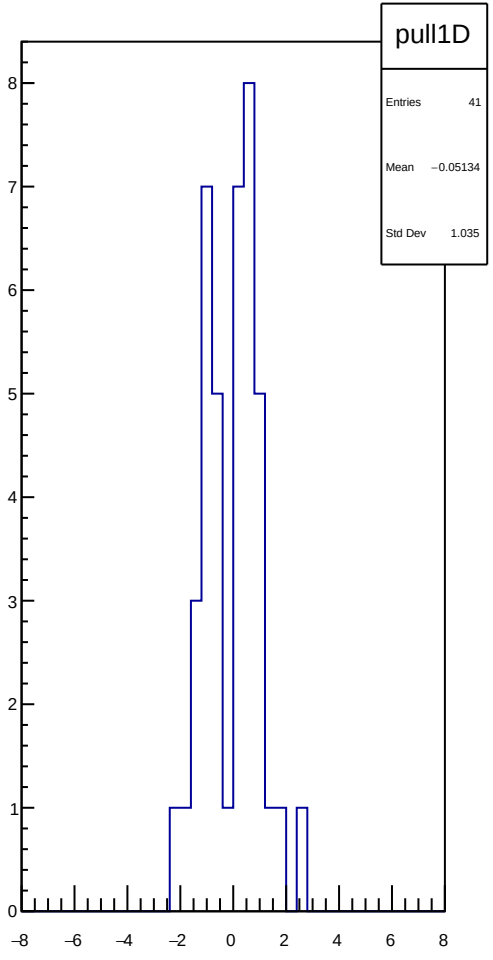

pull1D
Entries 41
Mean 0.007048
Std Dev 0.9905
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

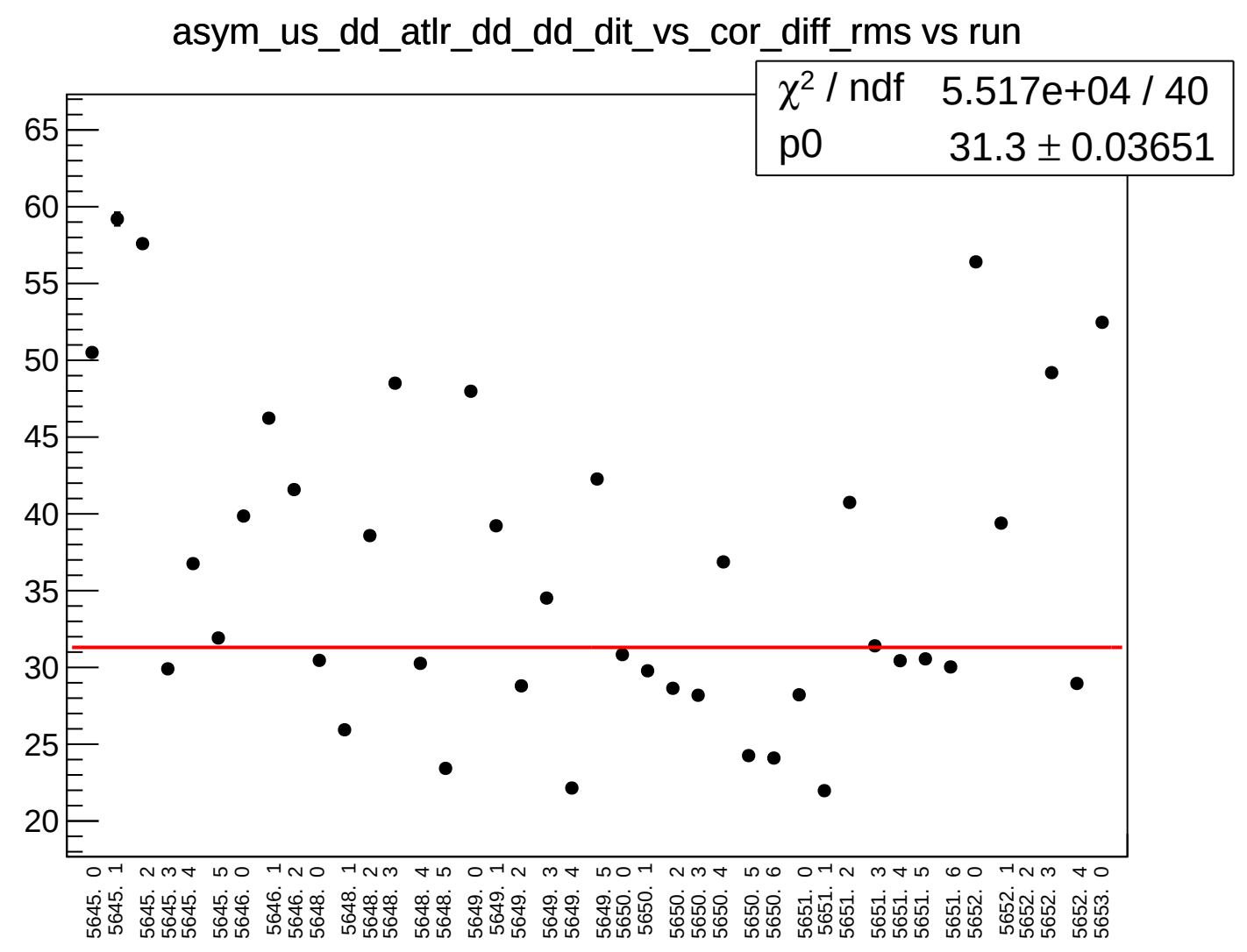

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 321.1 / 40
p0 1387 ± 1.56
1480
1460
1440
1420
1400
1380
1360
1340
1320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

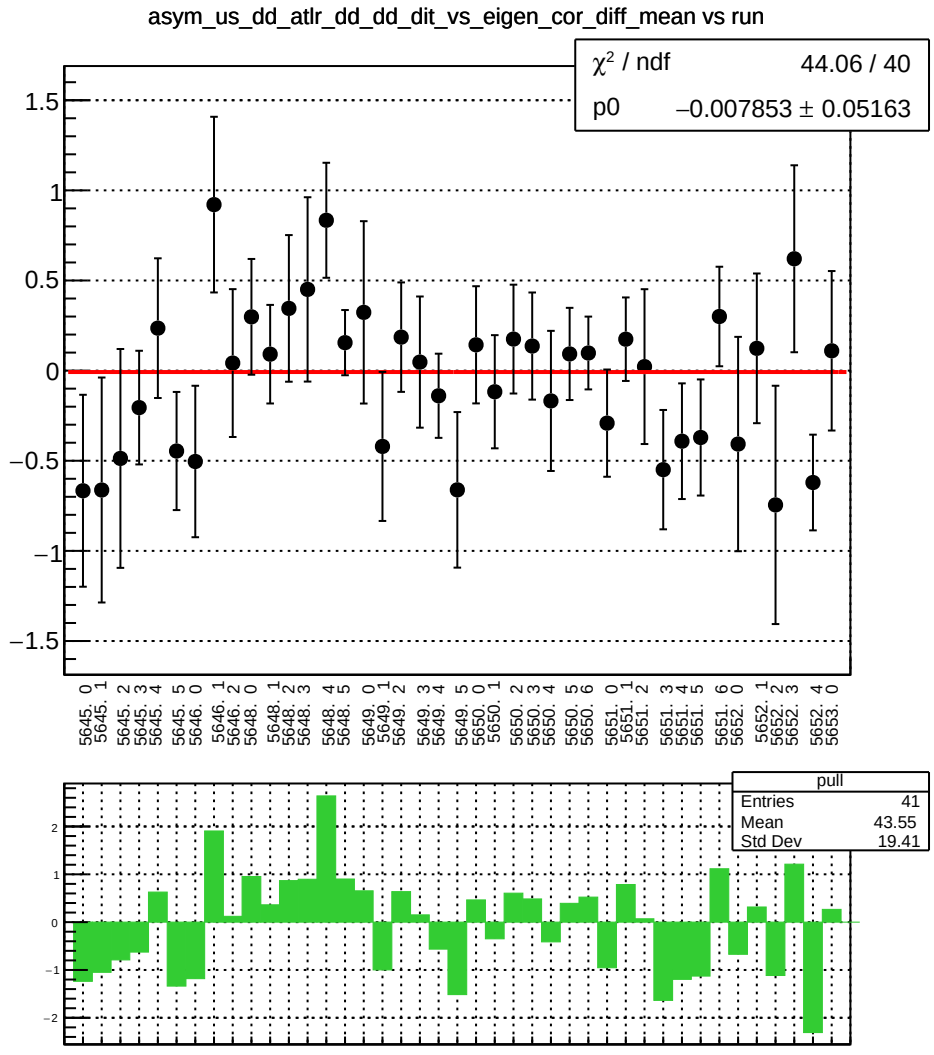

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.43 / 40
p0 6.95e−14 ± 1.191e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 33.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.1365
Std Dev 0.8648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

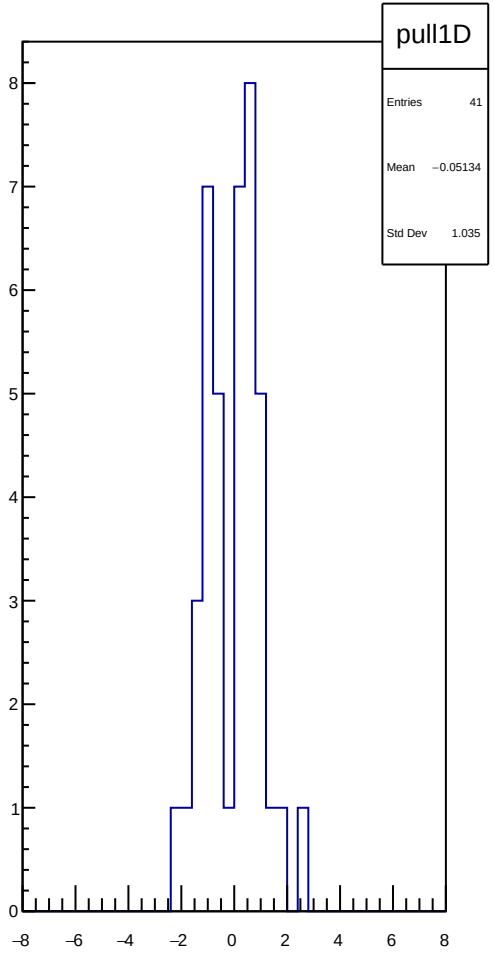

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.211e+05 / 40
p0 5.117e−11 ± 8.42e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

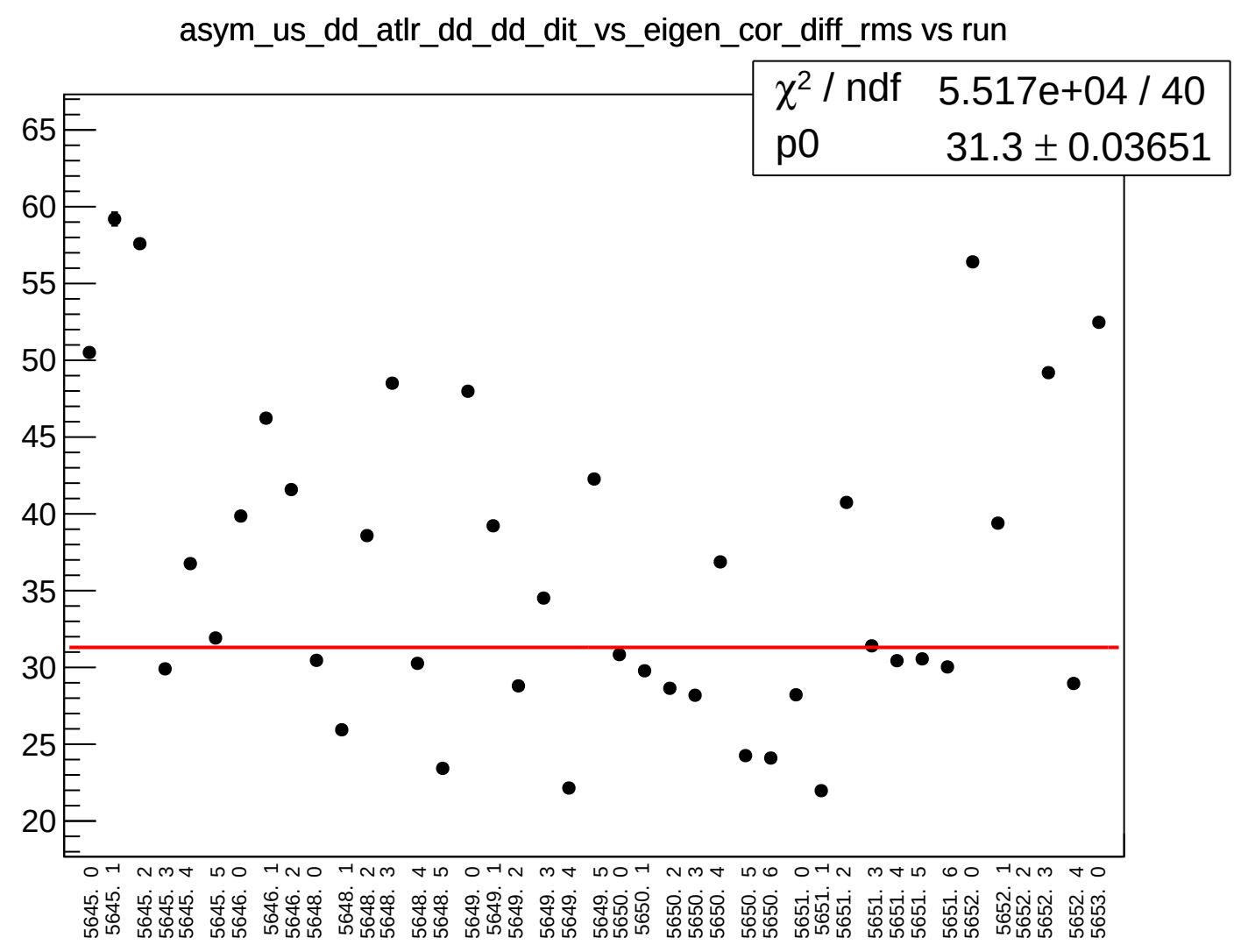

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.007853 ± 0.05163
pull
Entries 41
Mean 43.55
Std Dev 19.41

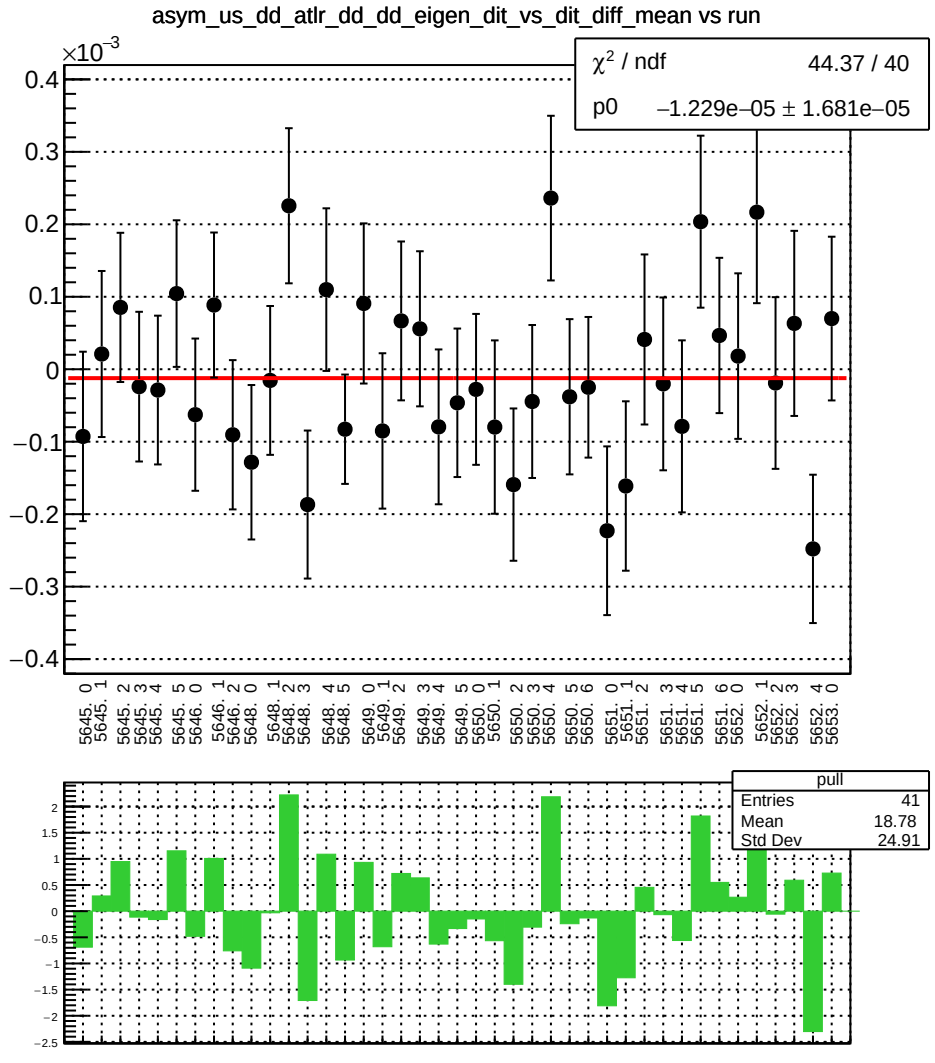

pull1D
Entries 41
Mean −0.05134
Std Dev 1.035

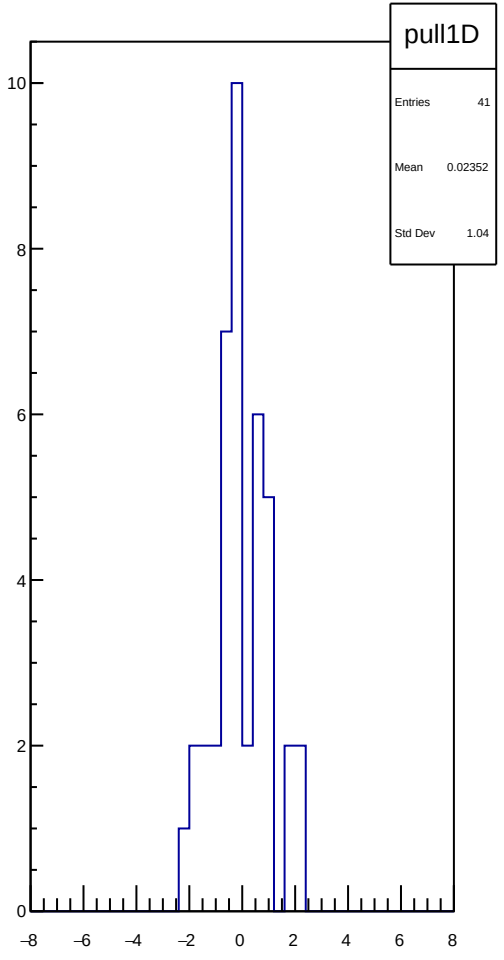

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 40
p0 31.3 ± 0.03651
65
60
55
50
45
40
35
30
25
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

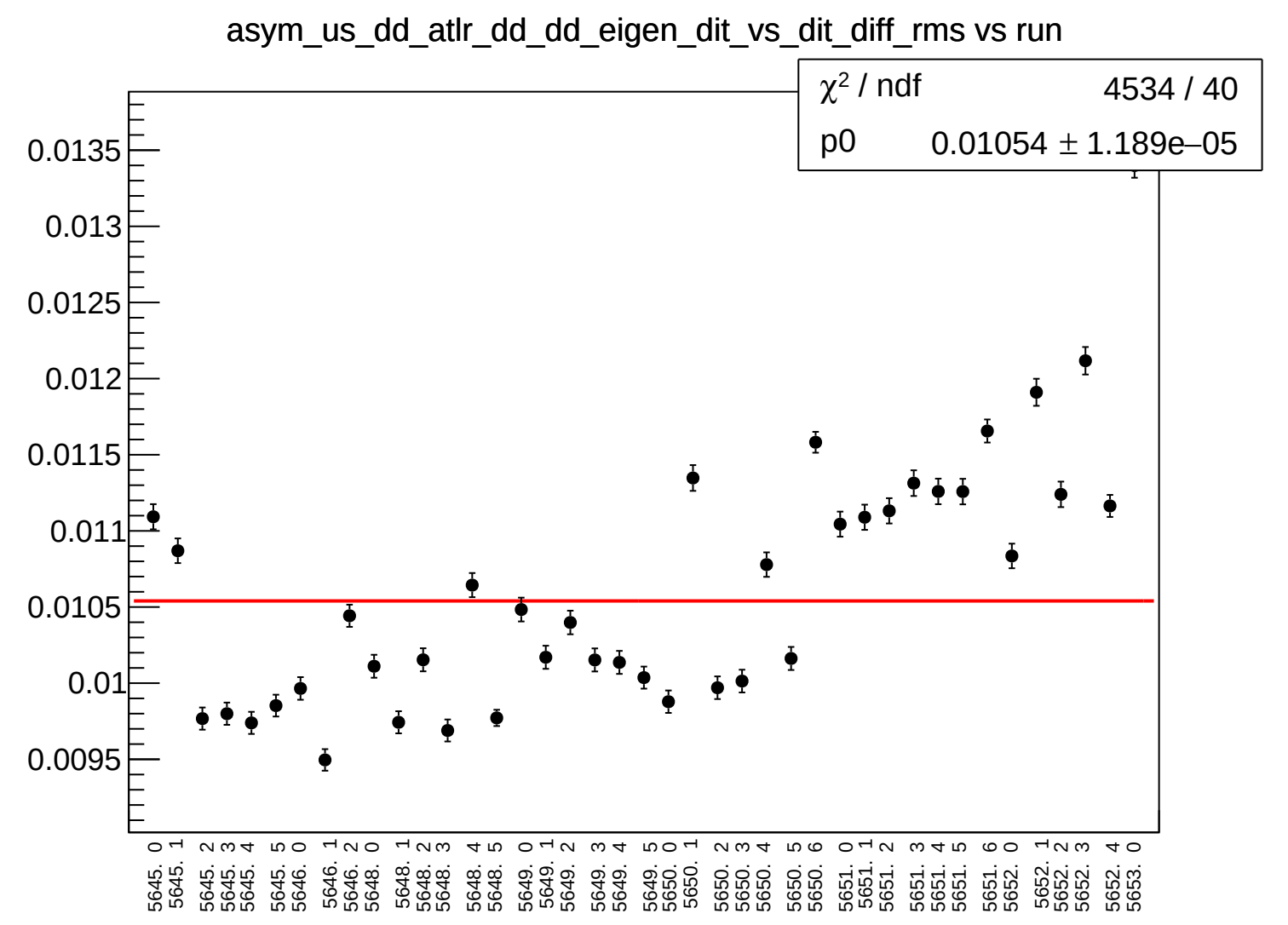

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.007853 ± 0.05163
pull
Entries 41
Mean 43.55
Std Dev 19.41

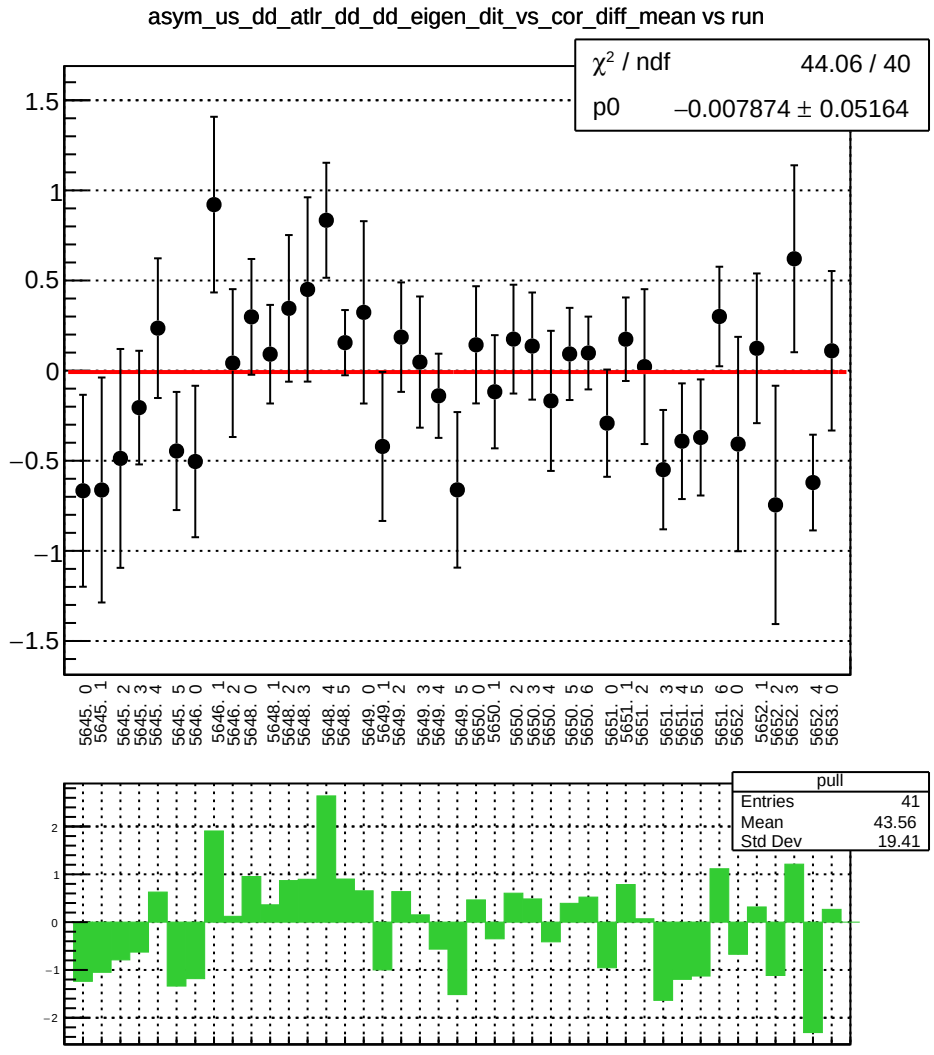

pull1D
Entries 41
Mean −0.05134
Std Dev 1.035

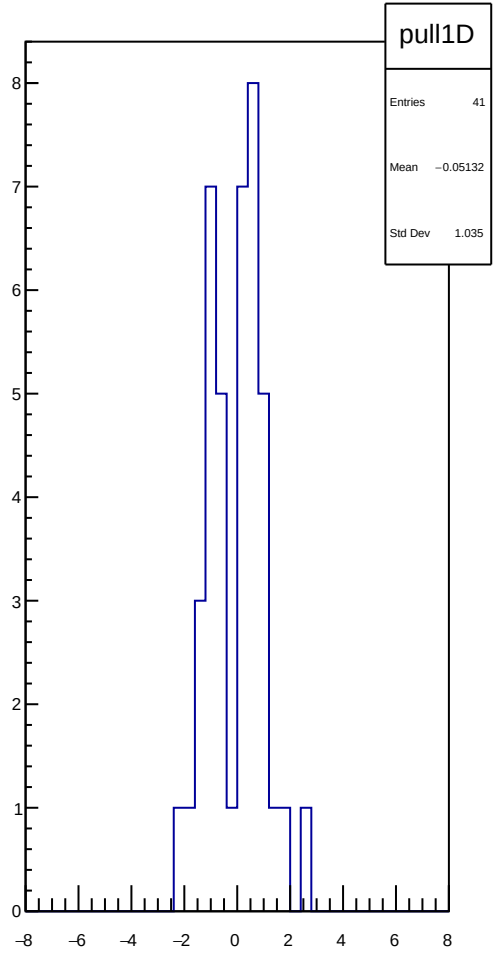

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 40
p0 31.3 ± 0.03651
65
60
55
50
45
40
35
30
25
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

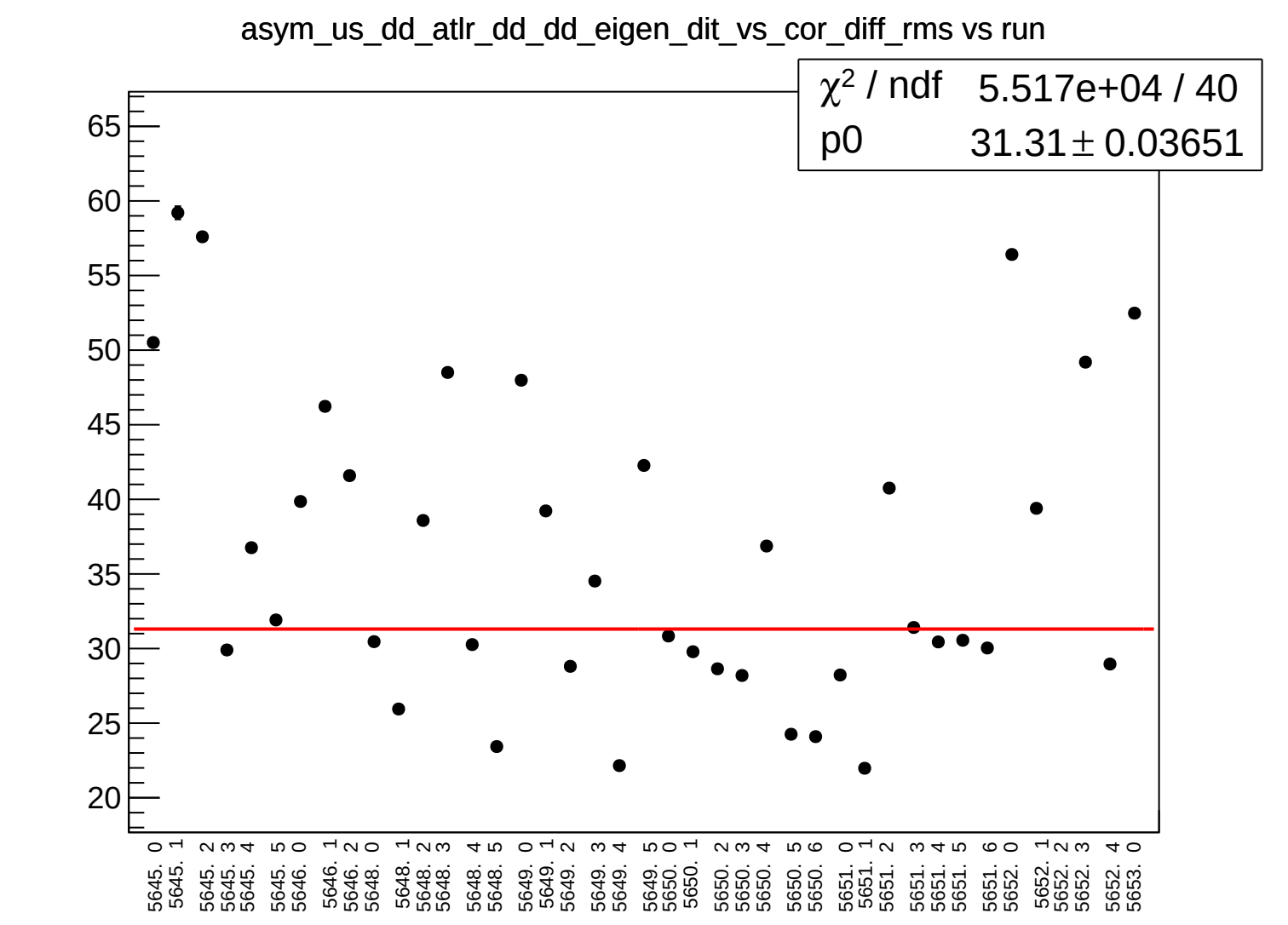

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.37 / 40
p0 −1.229e−05 ± 1.681e−05
pull
Entries 41
Mean 18.78
Std Dev 24.91

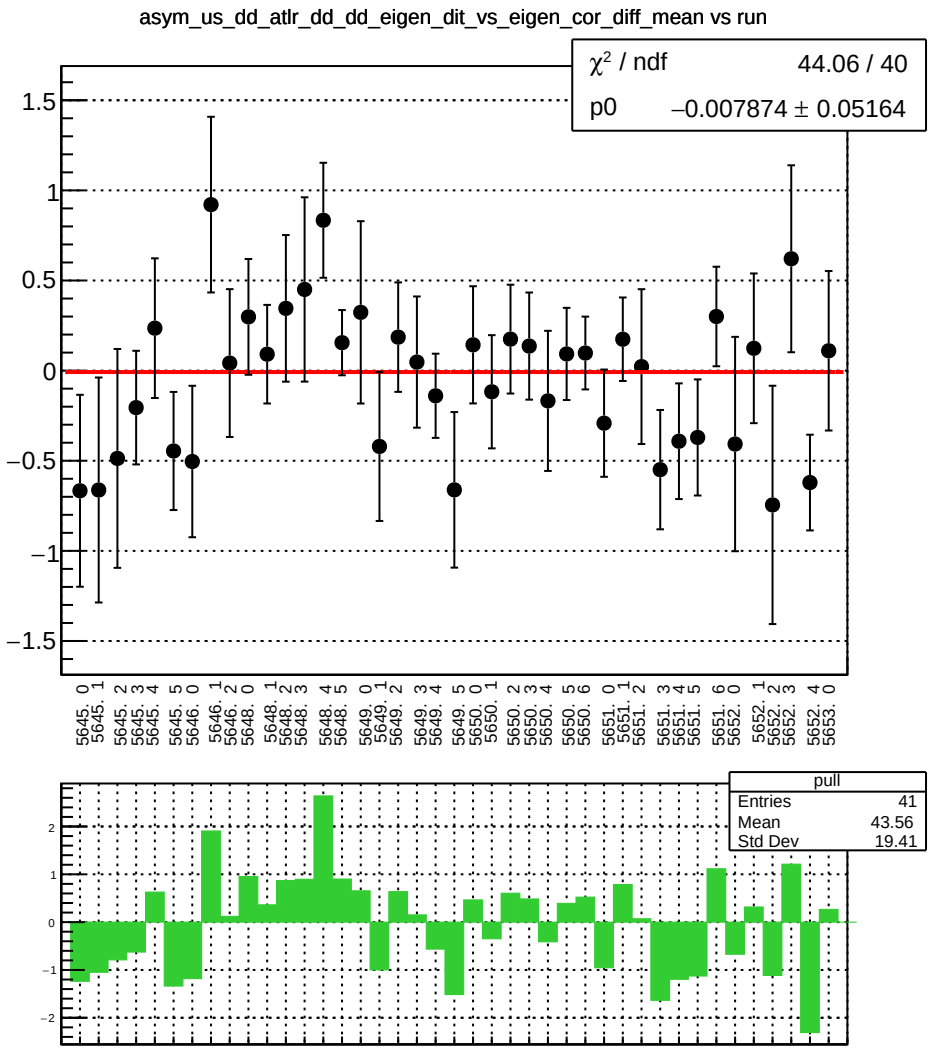

pull1D
Entries 41
Mean 0.02352
Std Dev 1.04

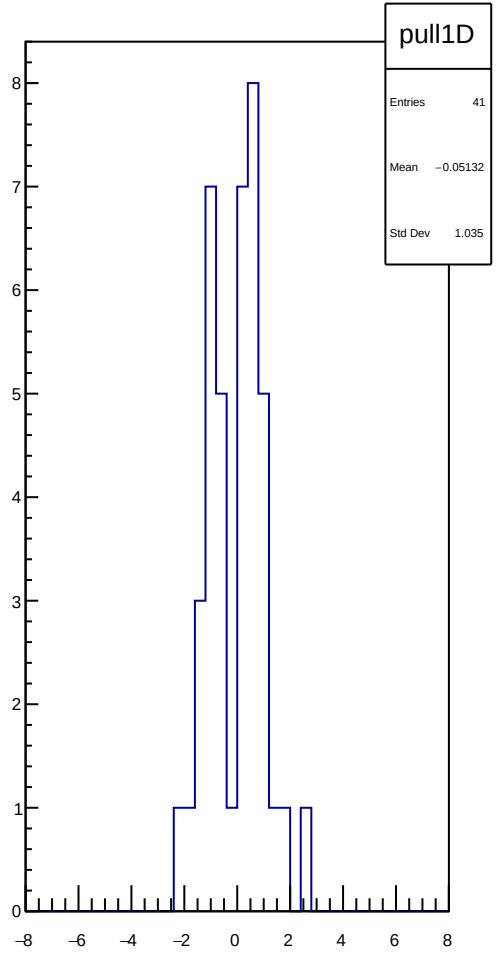

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4534 / 40
p0 0.01054 ± 1.189e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

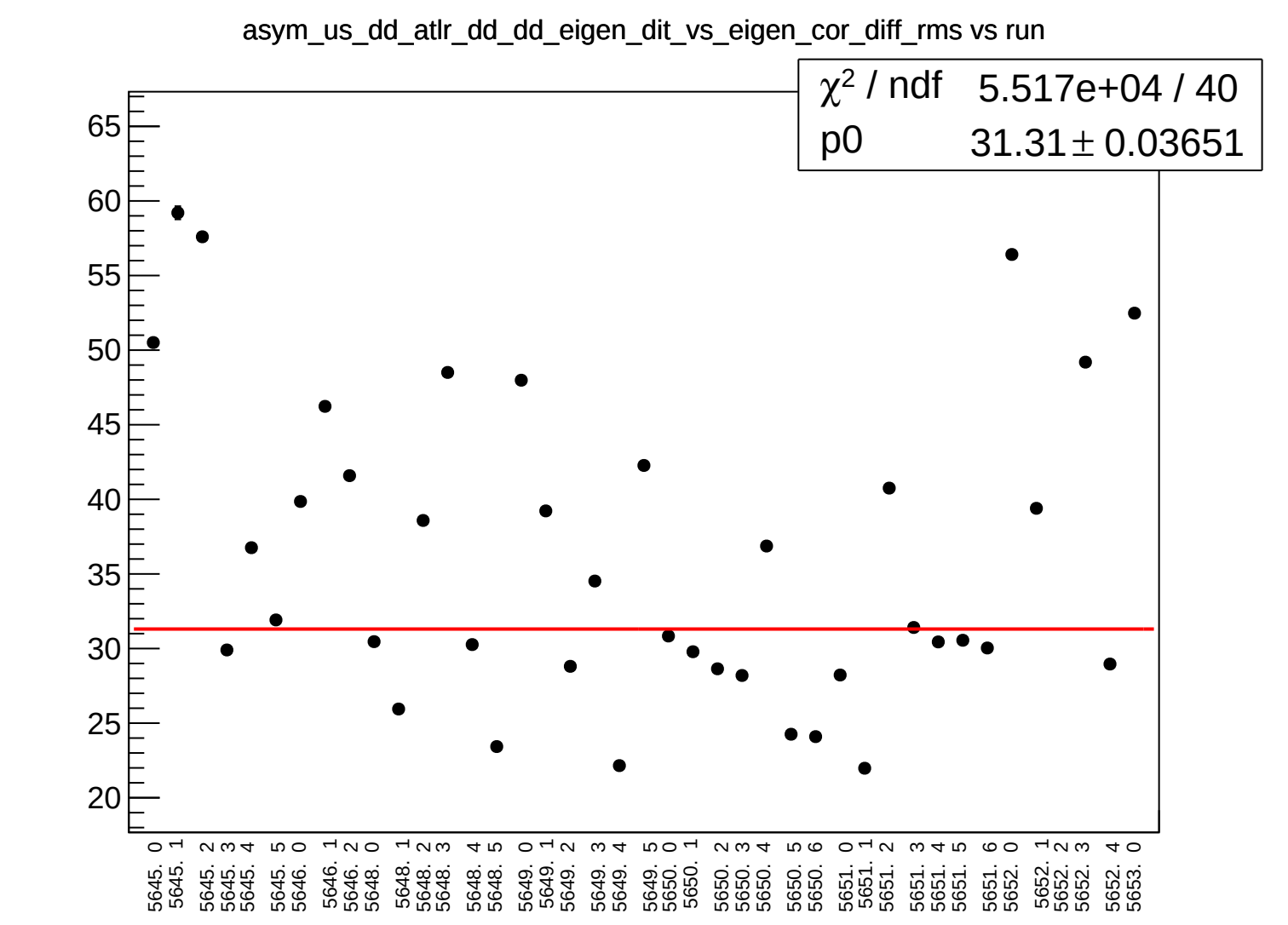

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.007874 ± 0.05164
pull
Entries 41
Mean 43.56
Std Dev 19.41

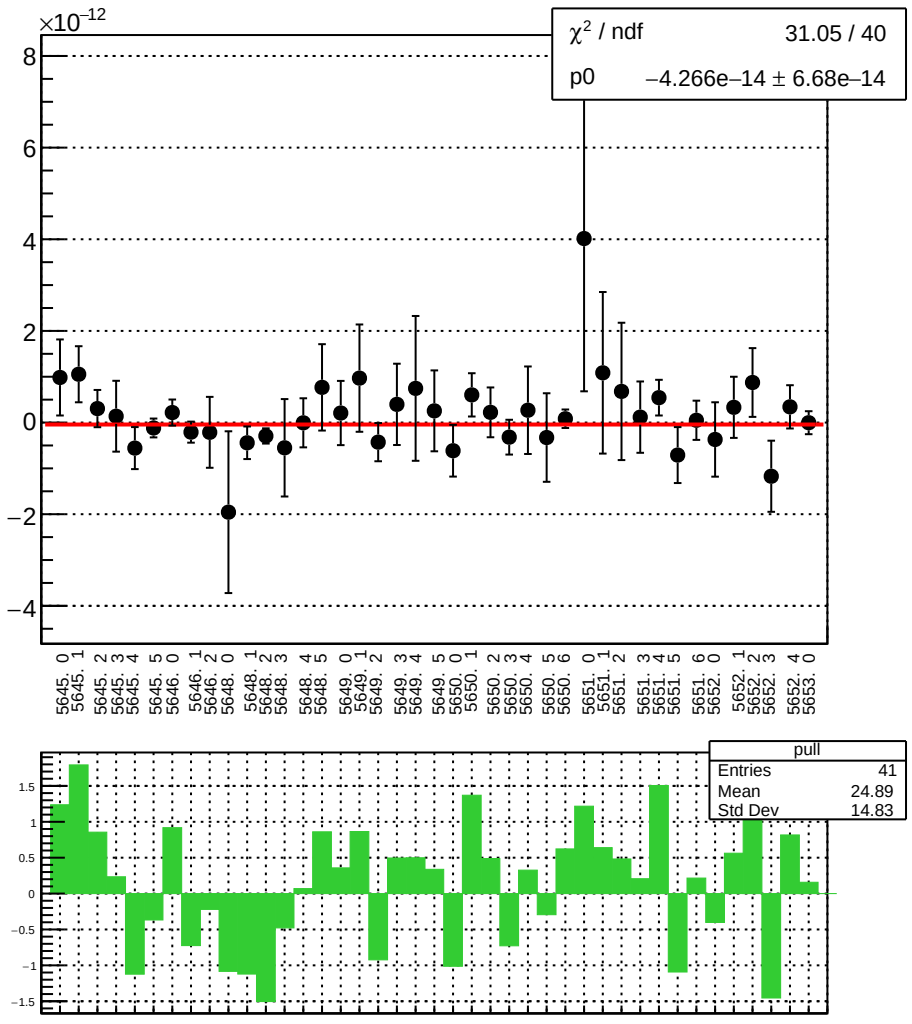

pull1D
Entries 41
Mean −0.05132
Std Dev 1.035

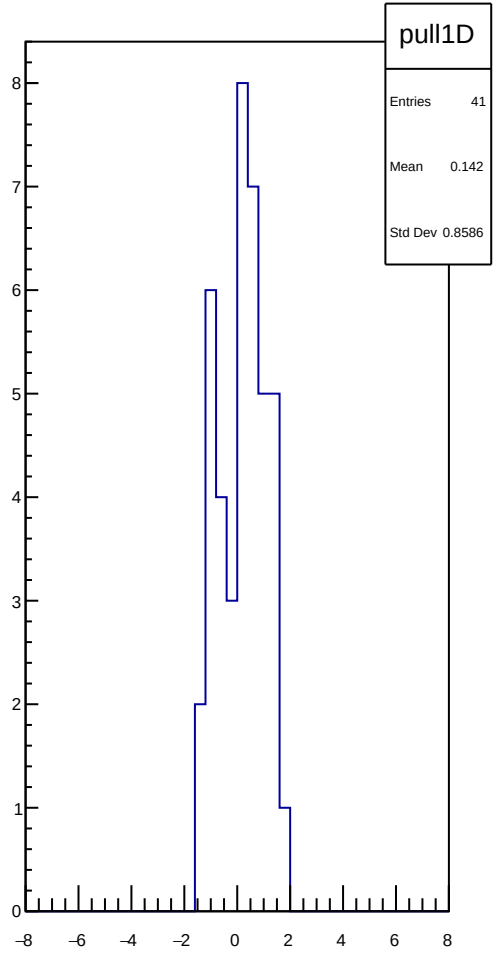

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 40
p0 31.31 ± 0.03651
65
60
55
50
45
40
35
30
25
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

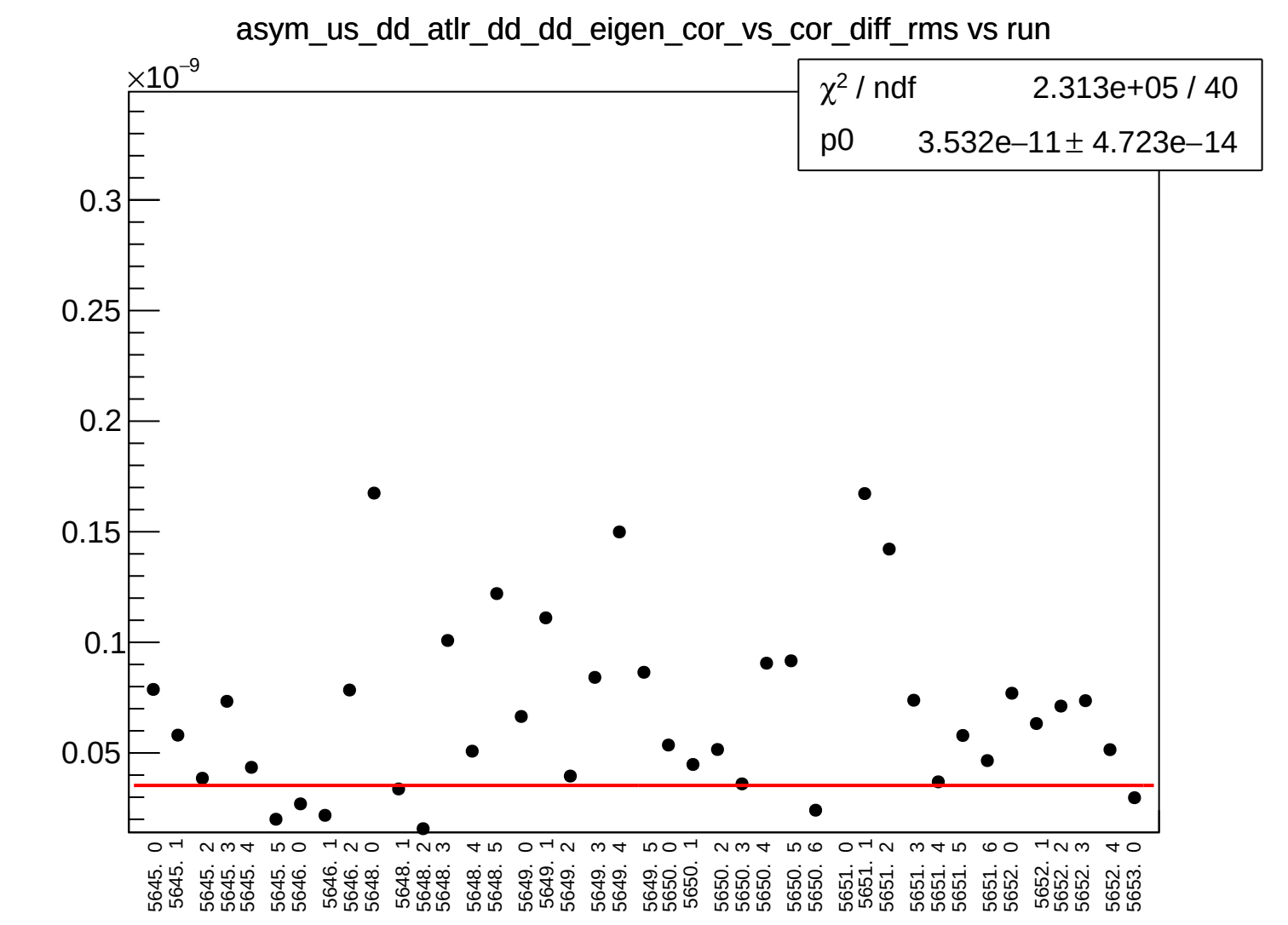

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.007874 ± 0.05164
pull
Entries 41
Mean 43.56
Std Dev 19.41

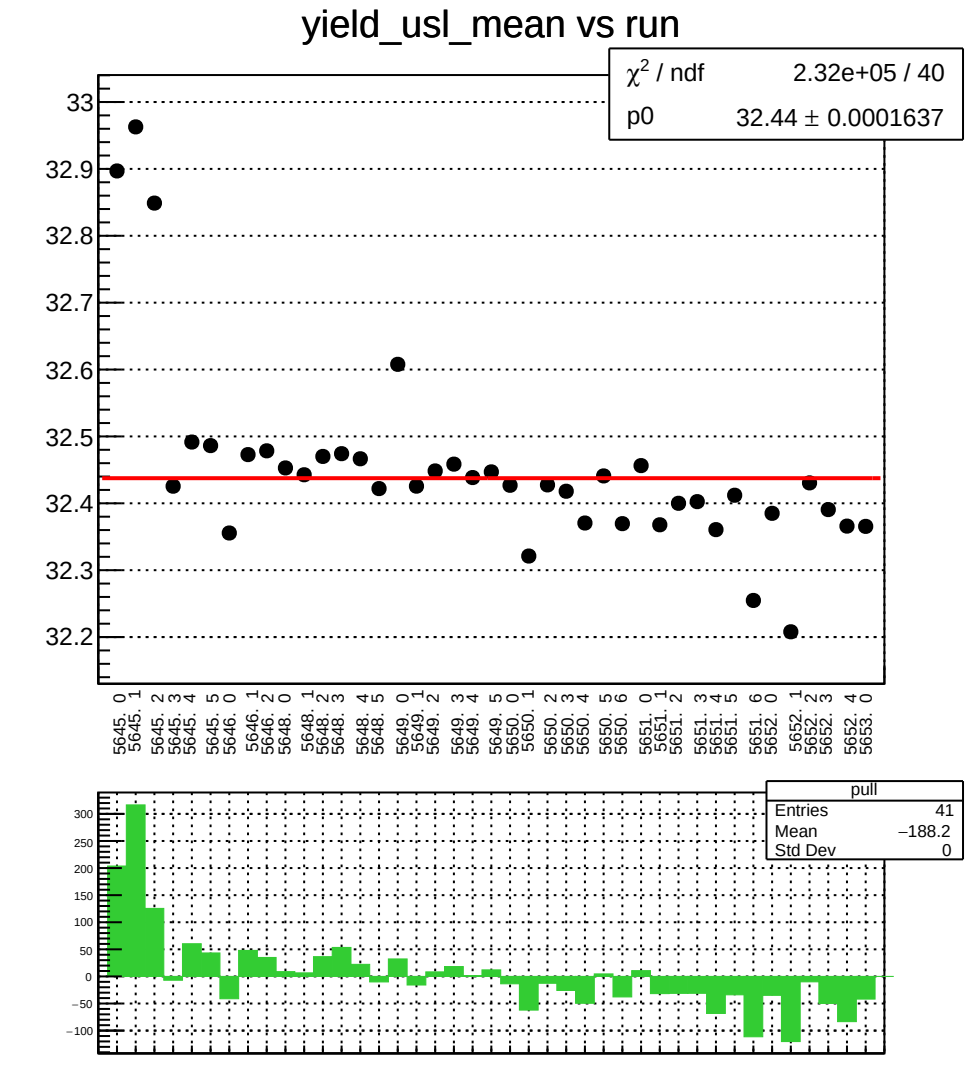

pull1D
Entries 41
Mean −0.05132
Std Dev 1.035

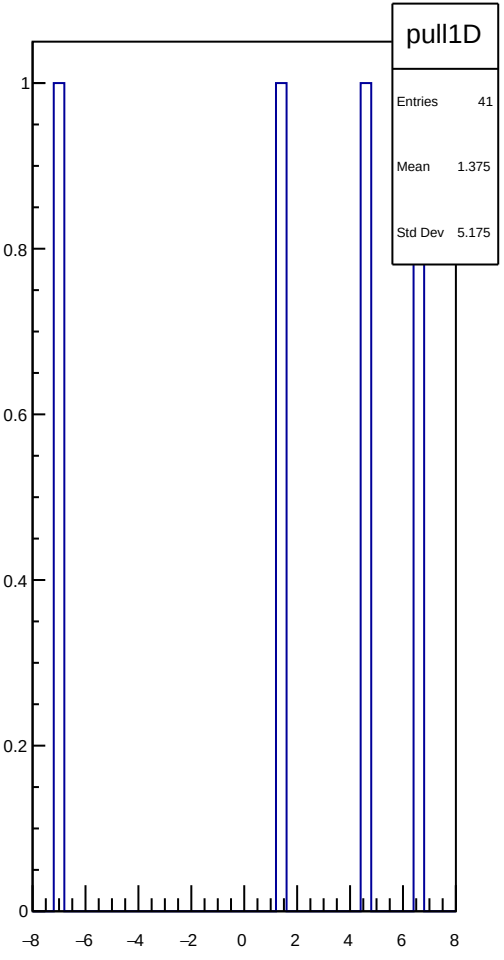

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 40
p0 31.31 ± 0.03651
65
60
55
50
45
40
35
30
25
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

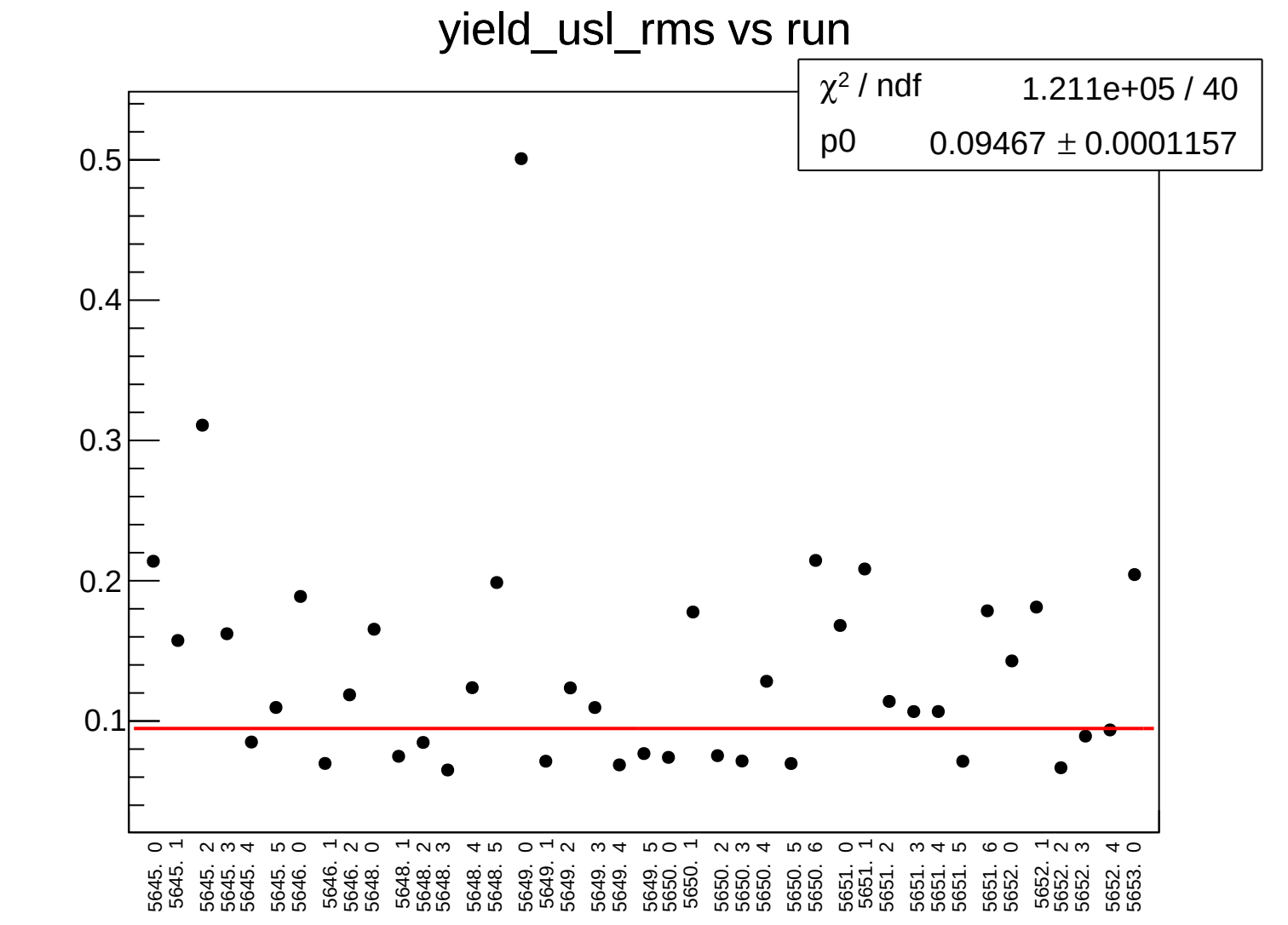

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.05 / 40
p0 −4.266e−14 ± 6.68e−14
pull
Entries 41
Mean 24.89
Std Dev 14.83

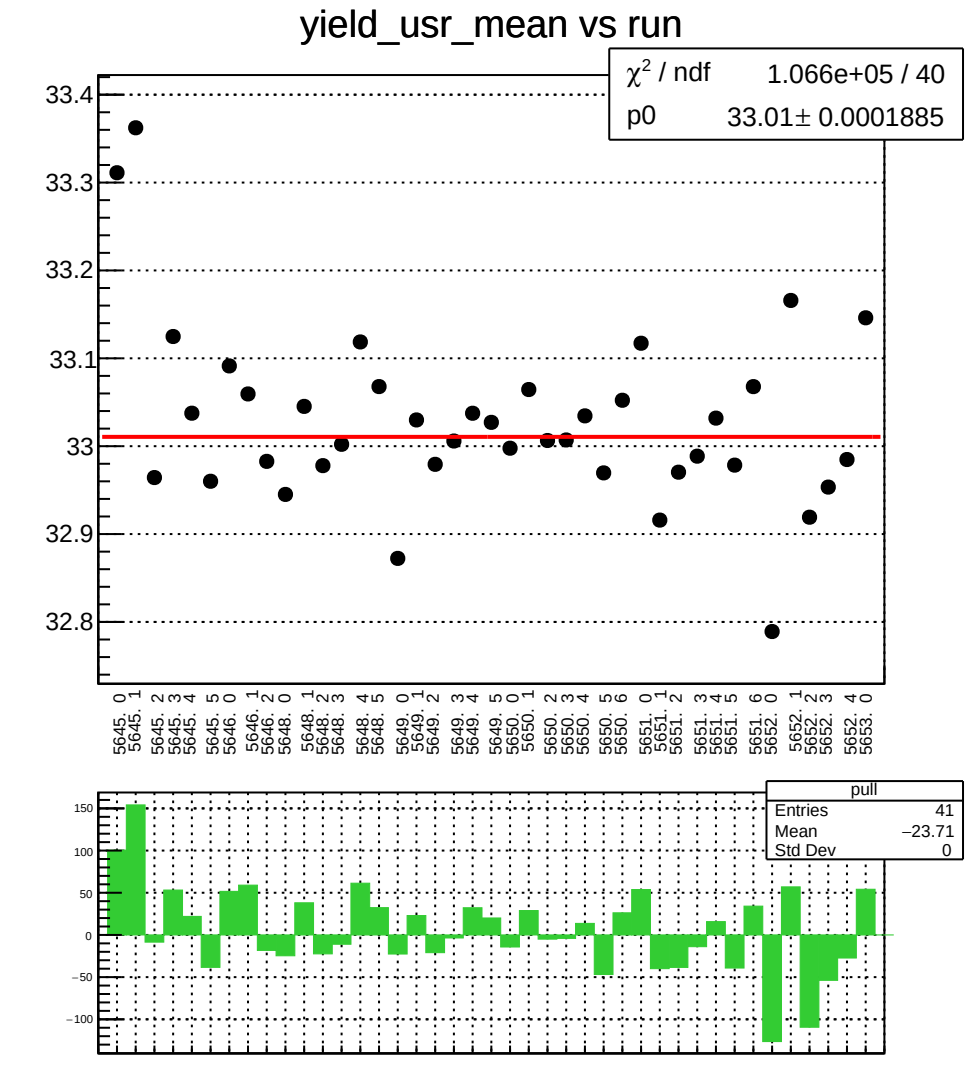

pull1D
Entries 41
Mean 0.142
Std Dev 0.8586

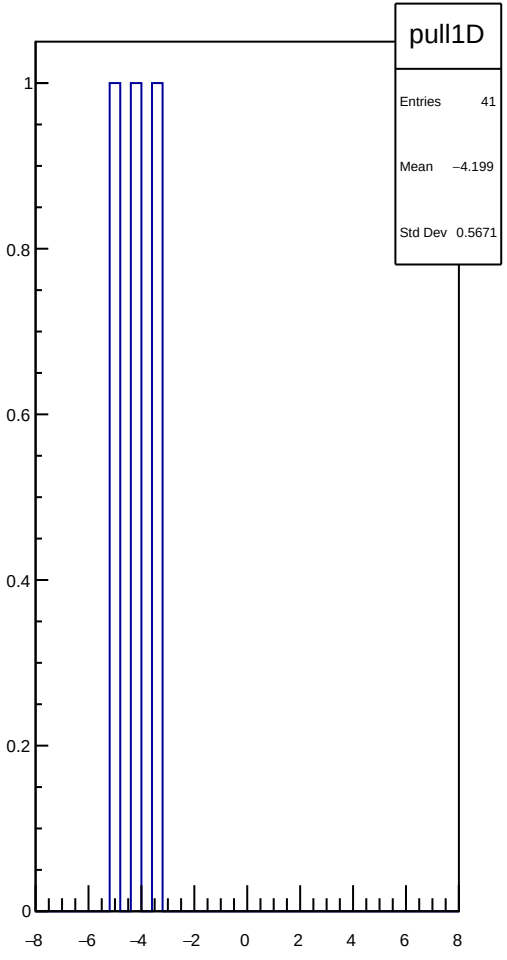

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.313e+05 / 40
p0 3.532e−11 ± 4.723e−14
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

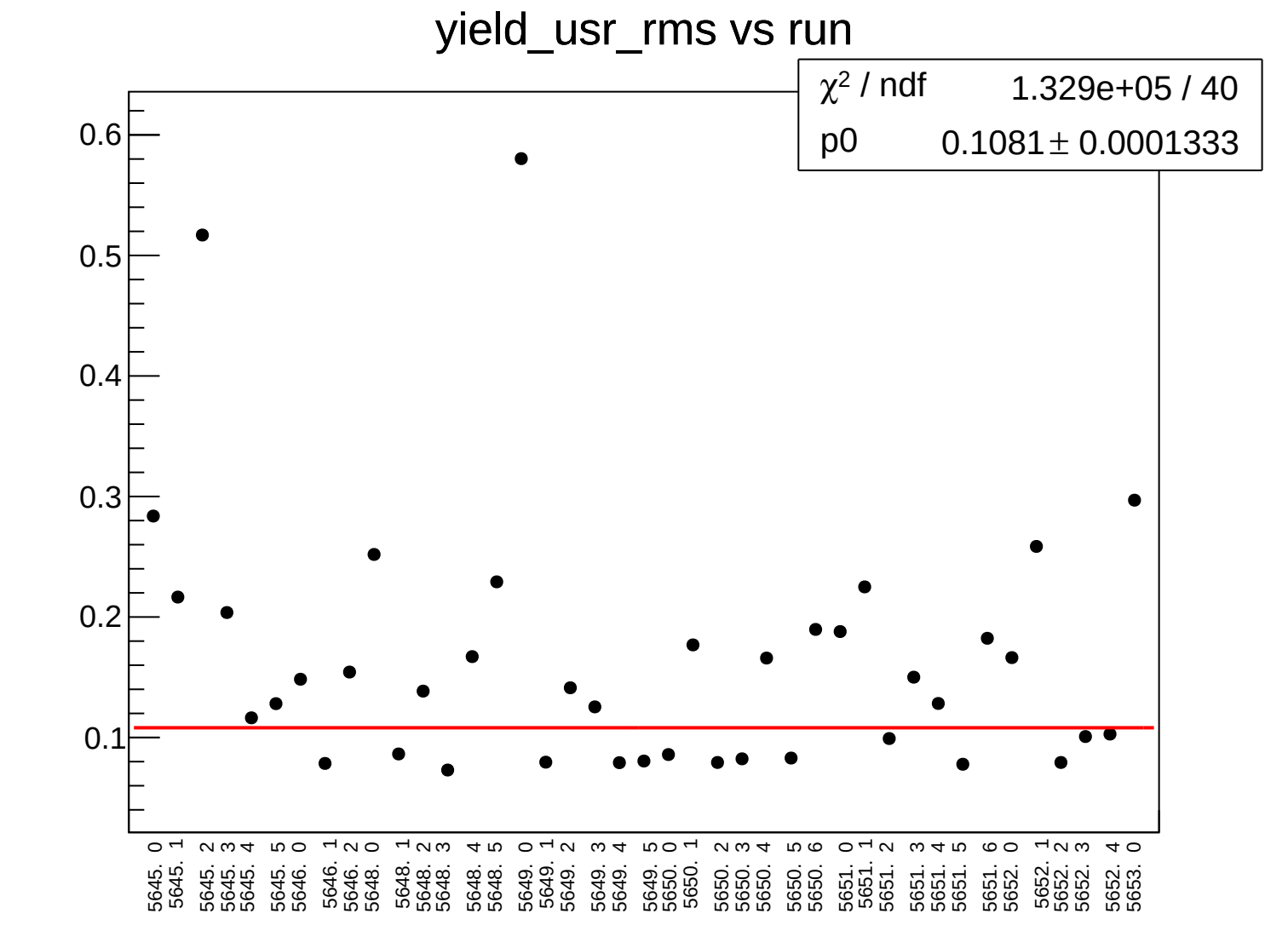

yield_usl_mean vs run
χ² / ndf 2.32e+05 / 40
p0 32.44 ± 0.0001637
33
32.9
32.8
32.7
32.6
32.5
32.4
32.3
32.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −188.2
Std Dev 0
300
250
200
150
100
50
0
−50
−100

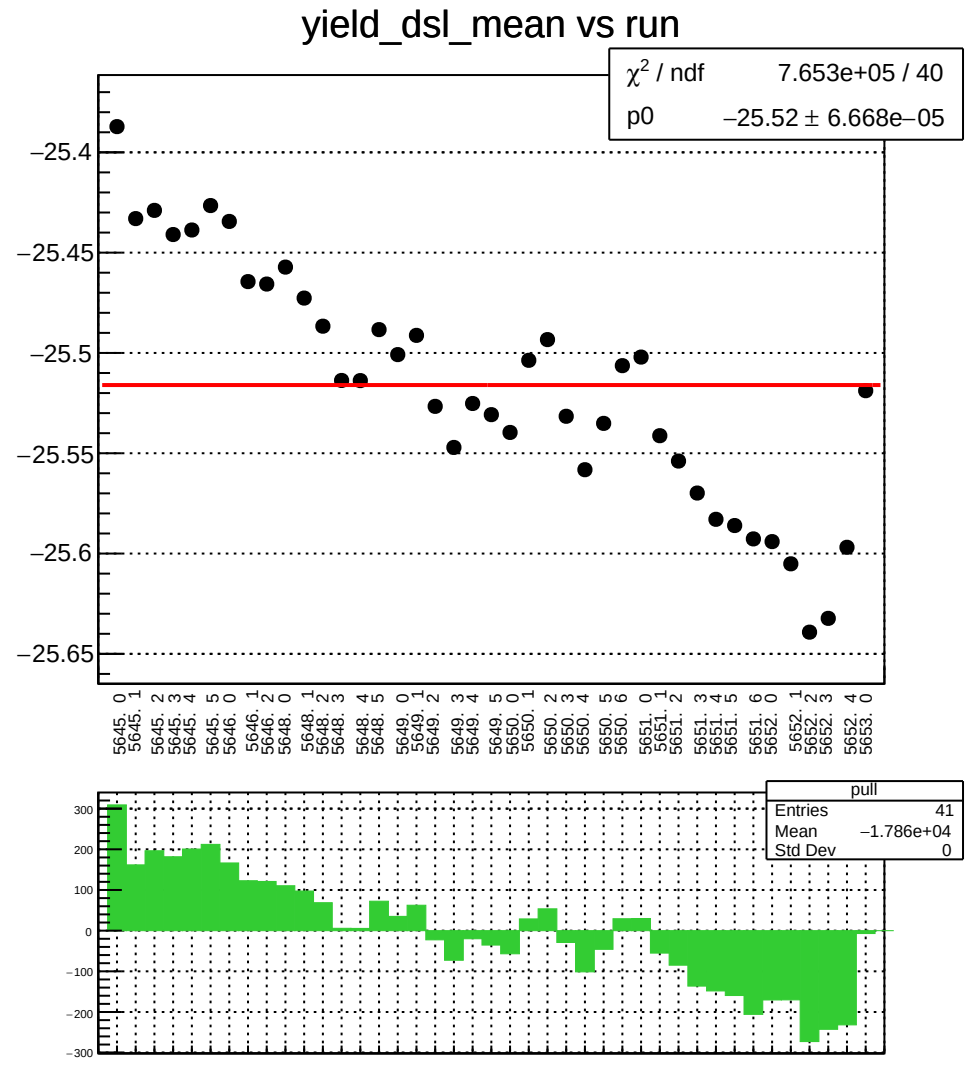

pull1D
Entries 41
Mean 1.375
Std Dev 5.175
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

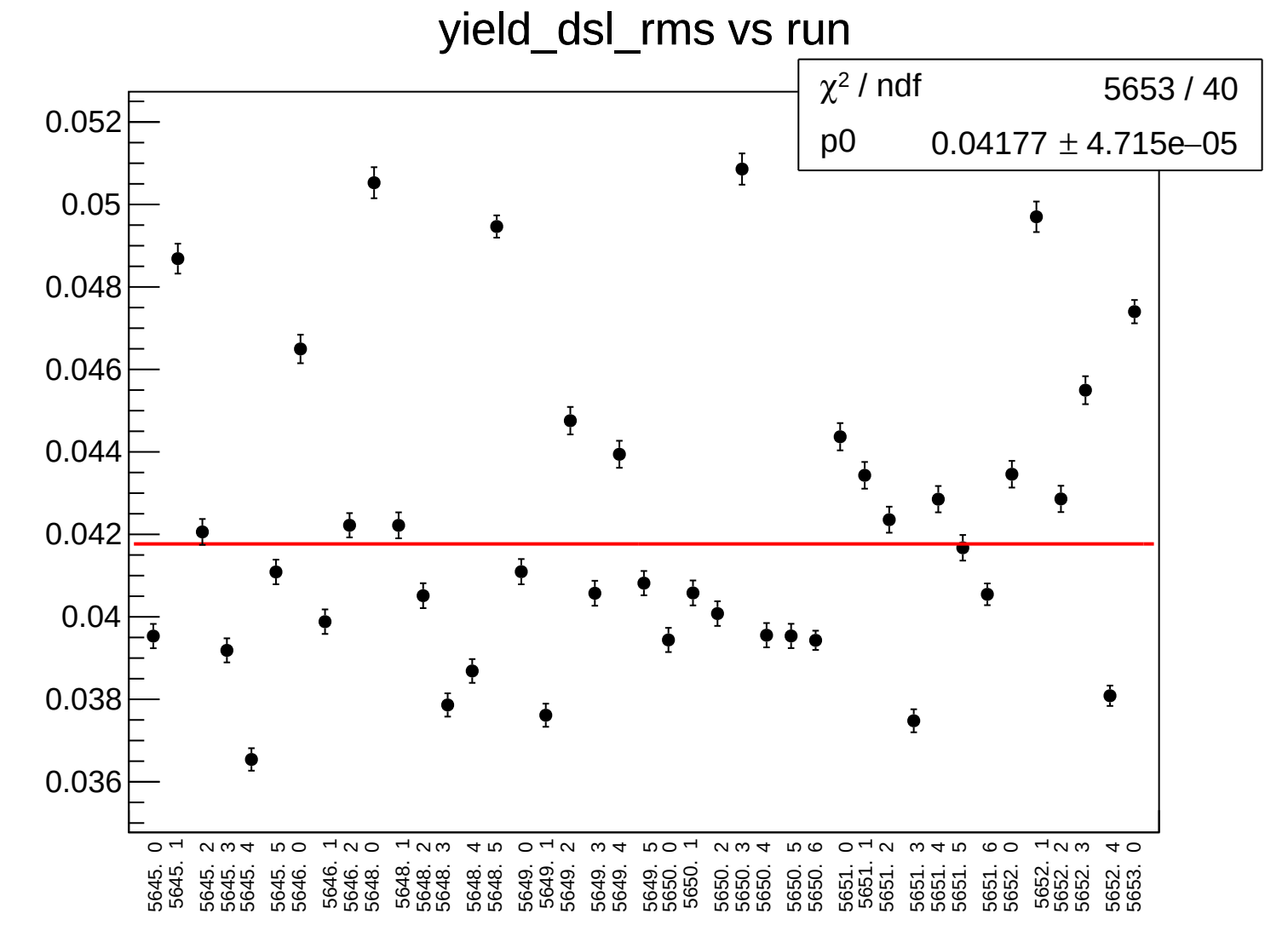

yield_usl_rms vs run
χ² / ndf 1.211e+05 / 40
p0 0.09467 ± 0.0001157
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

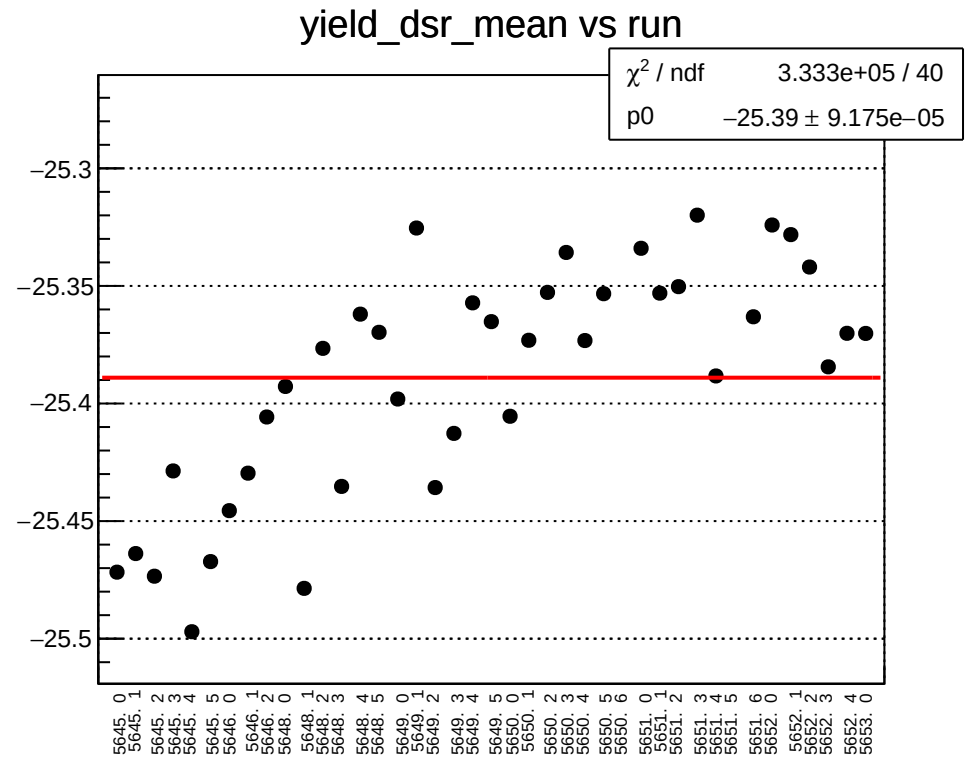

yield_usr_mean vs run
χ² / ndf 1.066e+05 / 40
p0 33.01± 0.0001885
33.4
33.3
33.2
33.1
33
32.9
32.8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −23.71
Std Dev 0
150
100
50
0
−50
−100

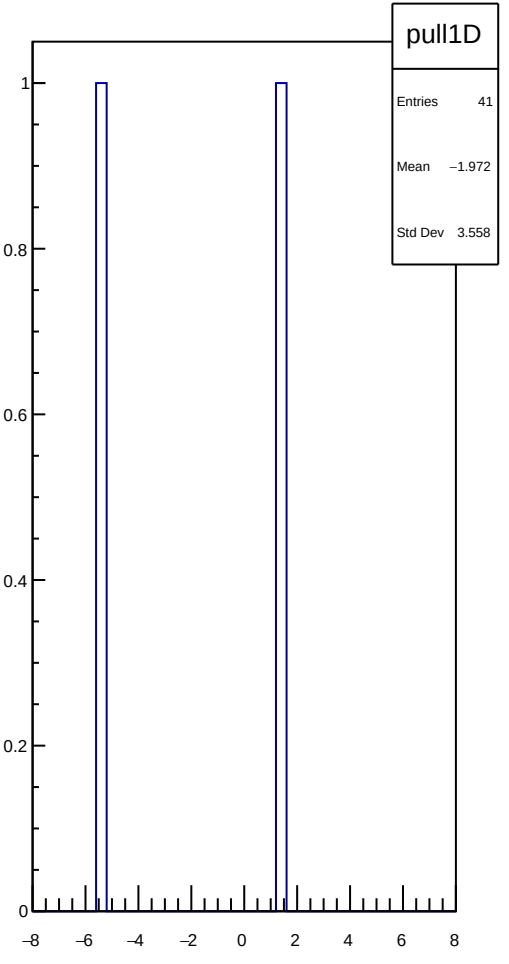

pull1D
Entries 41
Mean −4.199
Std Dev 0.5671
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

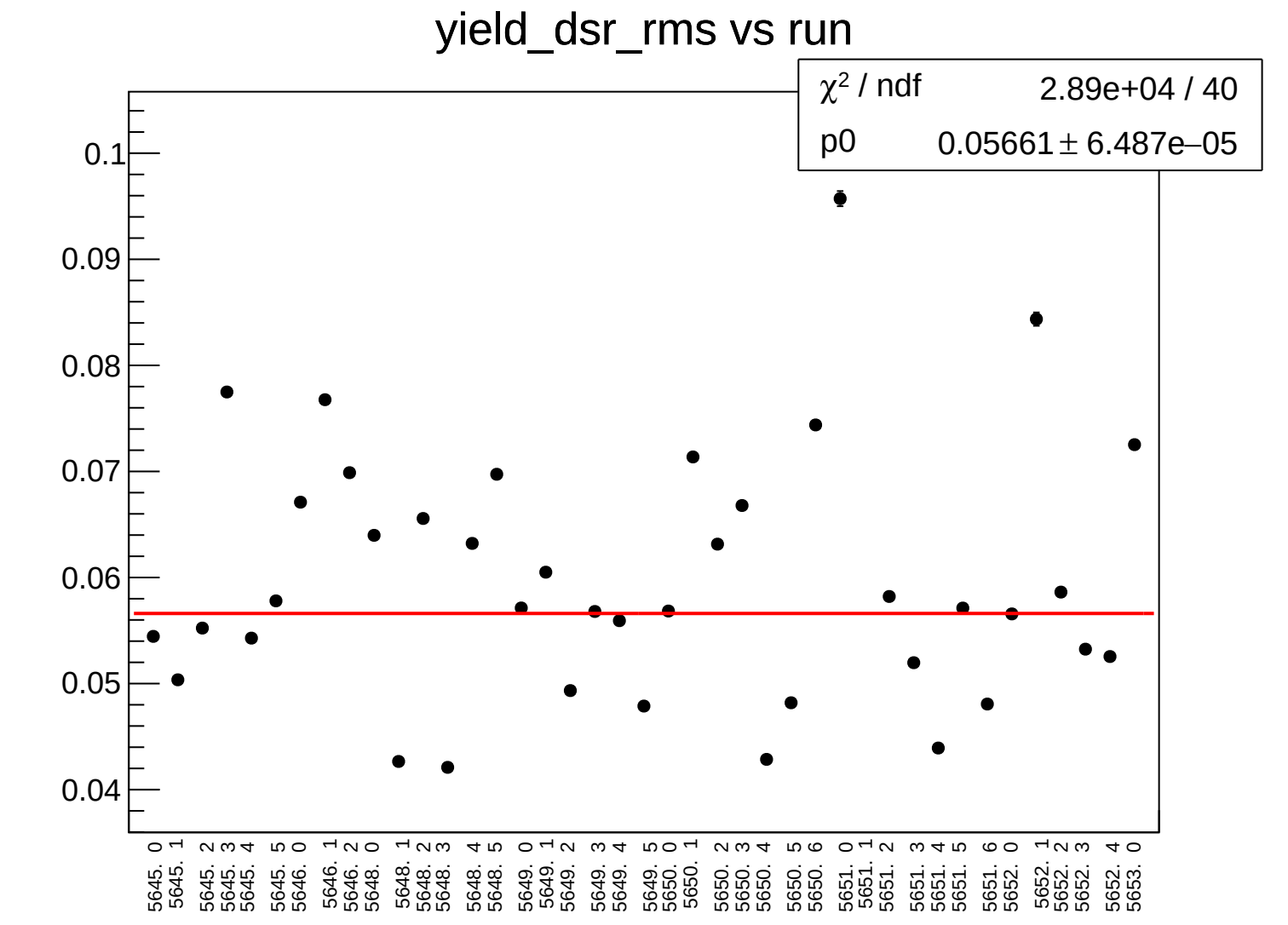

yield_usr_rms vs run
χ² / ndf 1.329e+05 / 40
p0 0.1081 ± 0.0001333
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

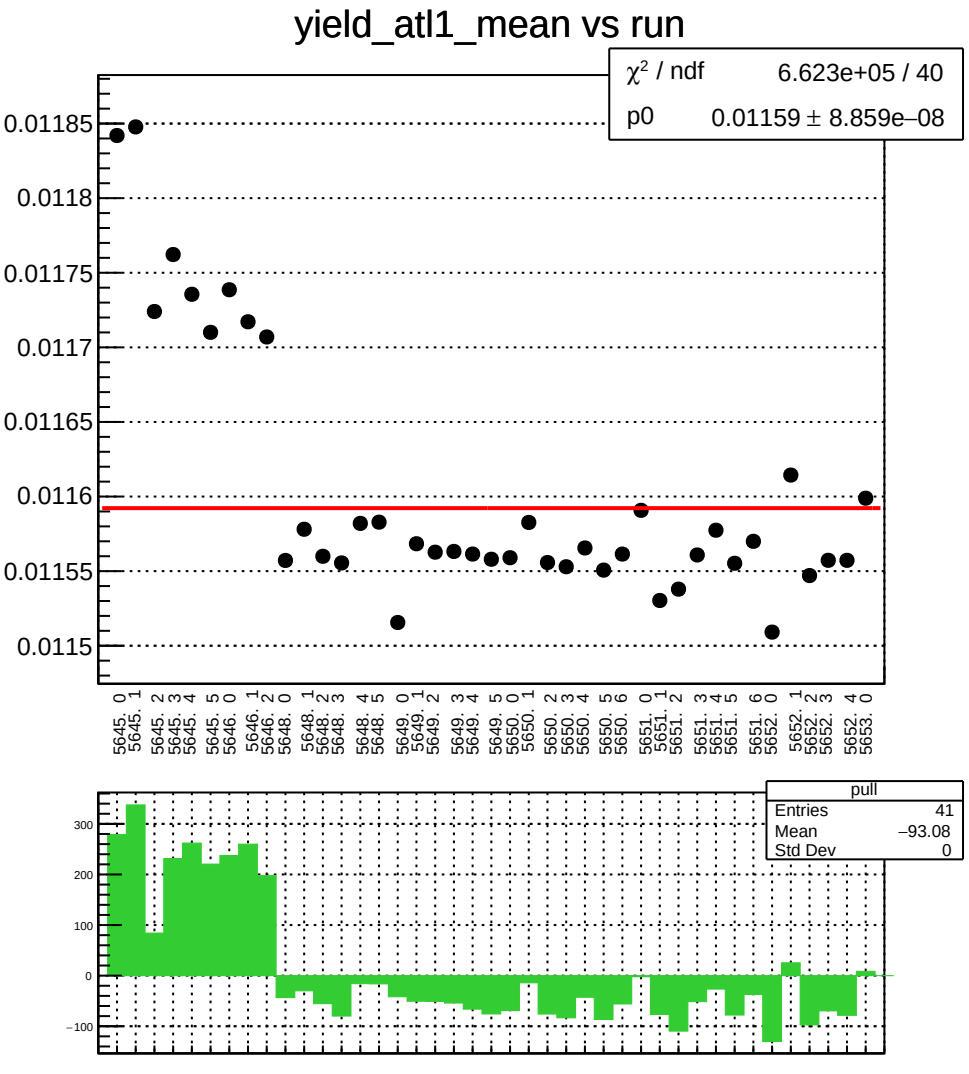

yield_dsl_mean vs run
χ² / ndf 7.653e+05 / 40
p0 −25.52 ± 6.668e−05
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.786e+04
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 41
Mean 1.38
Std Dev 5.951
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

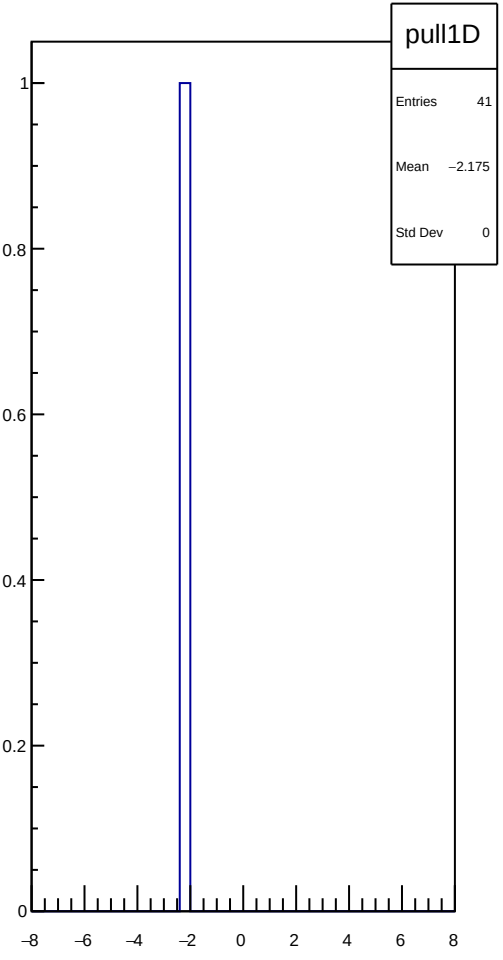

yield_dsl_rms vs run
χ² / ndf 5653 / 40
p0 0.04177 ± 4.715e–05
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

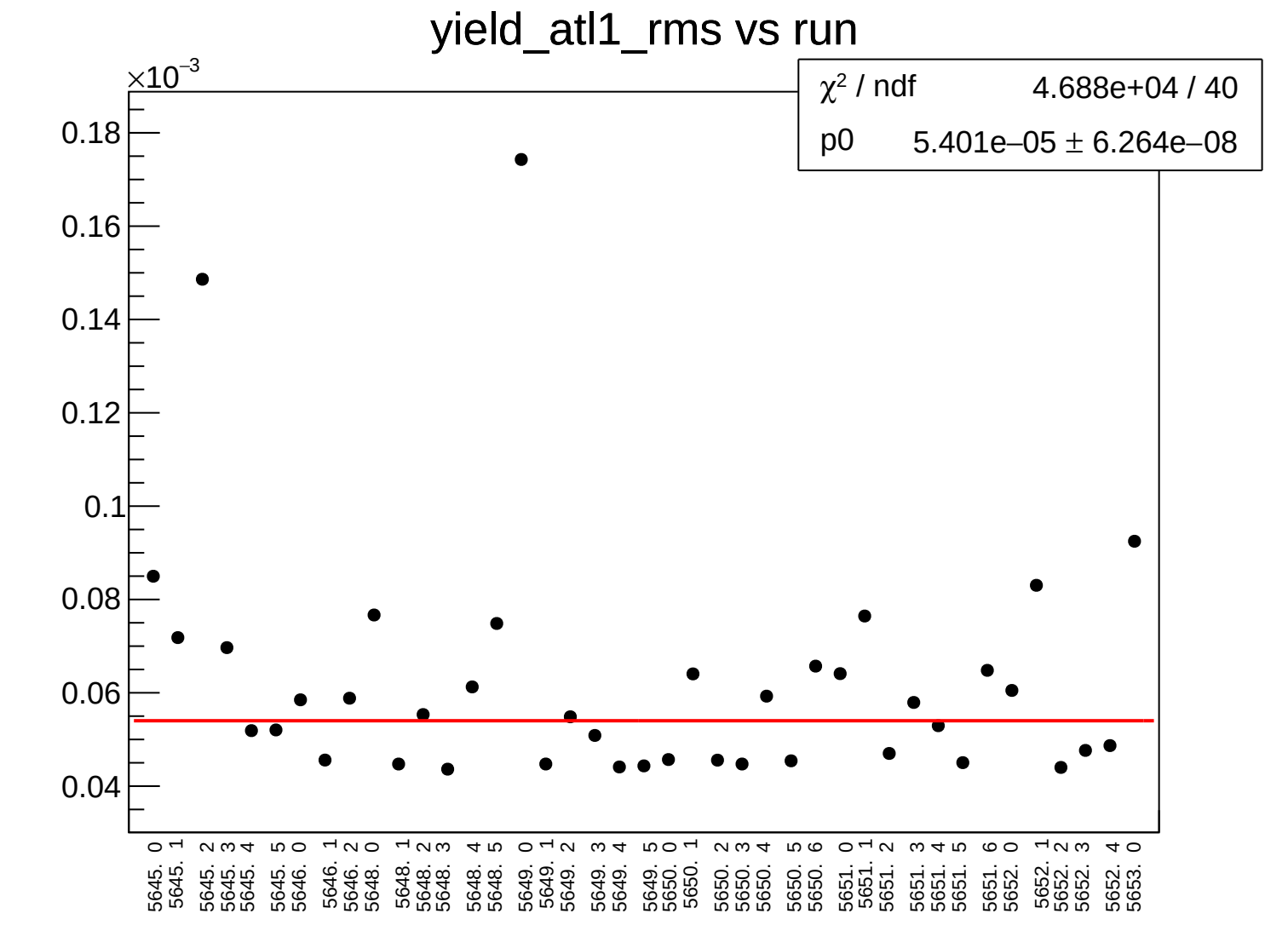

yield_dsr_mean vs run
χ² / ndf 3.333e+05 / 40
p0 −25.39 ± 9.175e−05
−25.3
−25.35
−25.4
−25.45
−25.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 258.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200

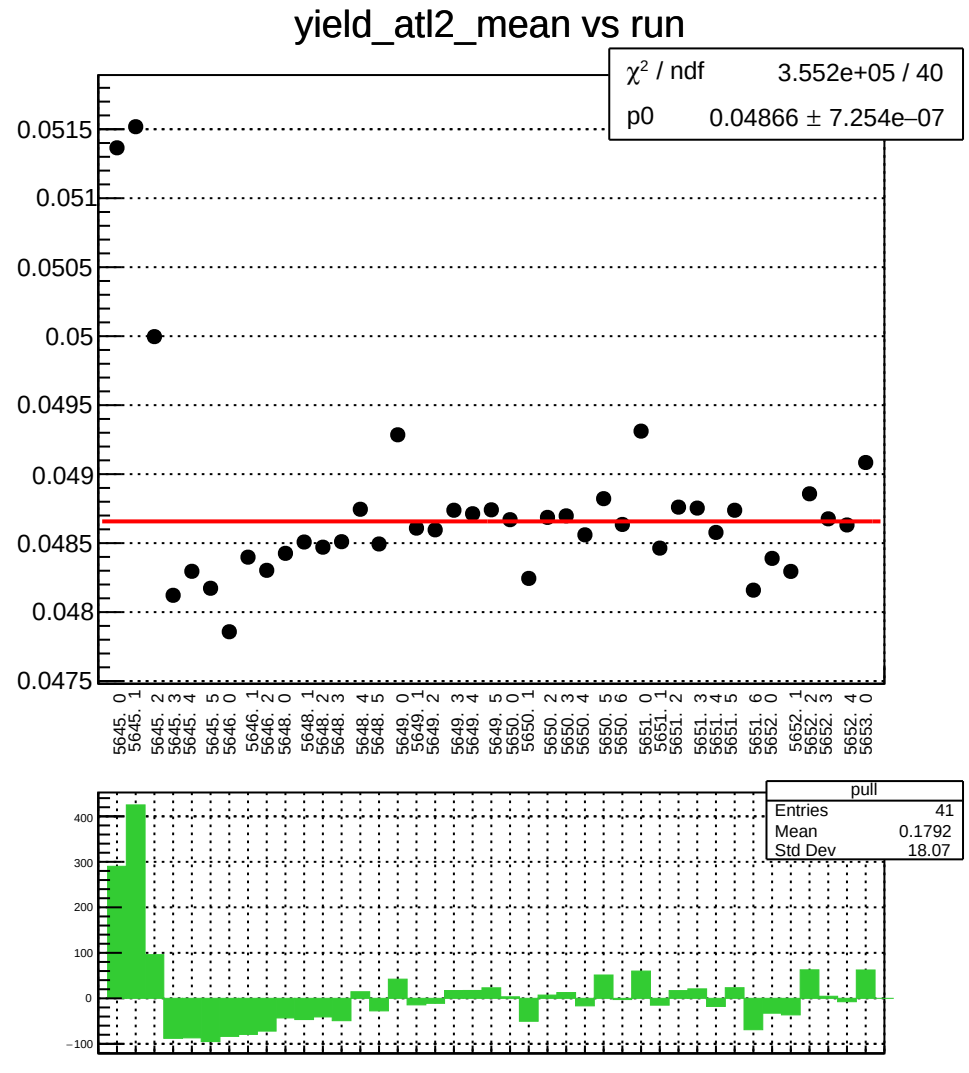

pull1D
Entries 41
Mean −1.972
Std Dev 3.558
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

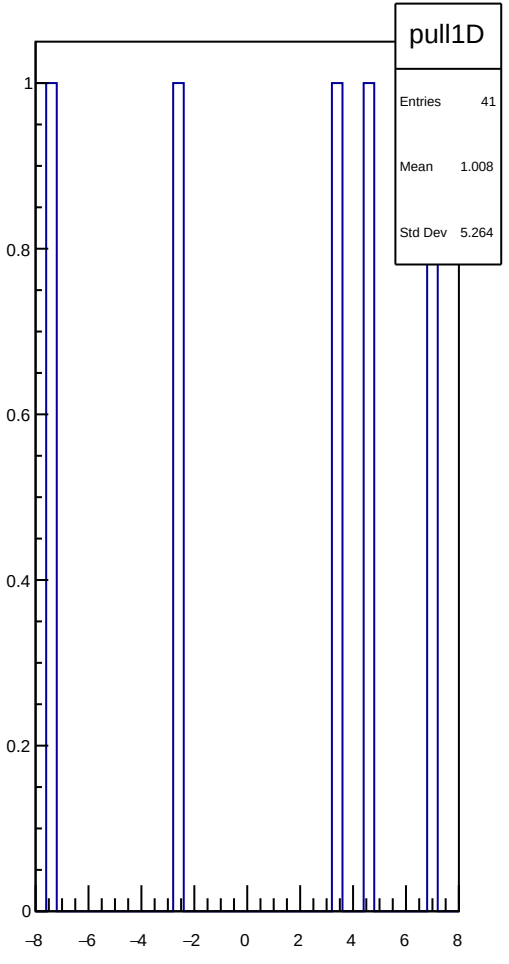

yield_dsr_rms vs run
χ² / ndf 2.89e+04 / 40
p0 0.05661 ± 6.487e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

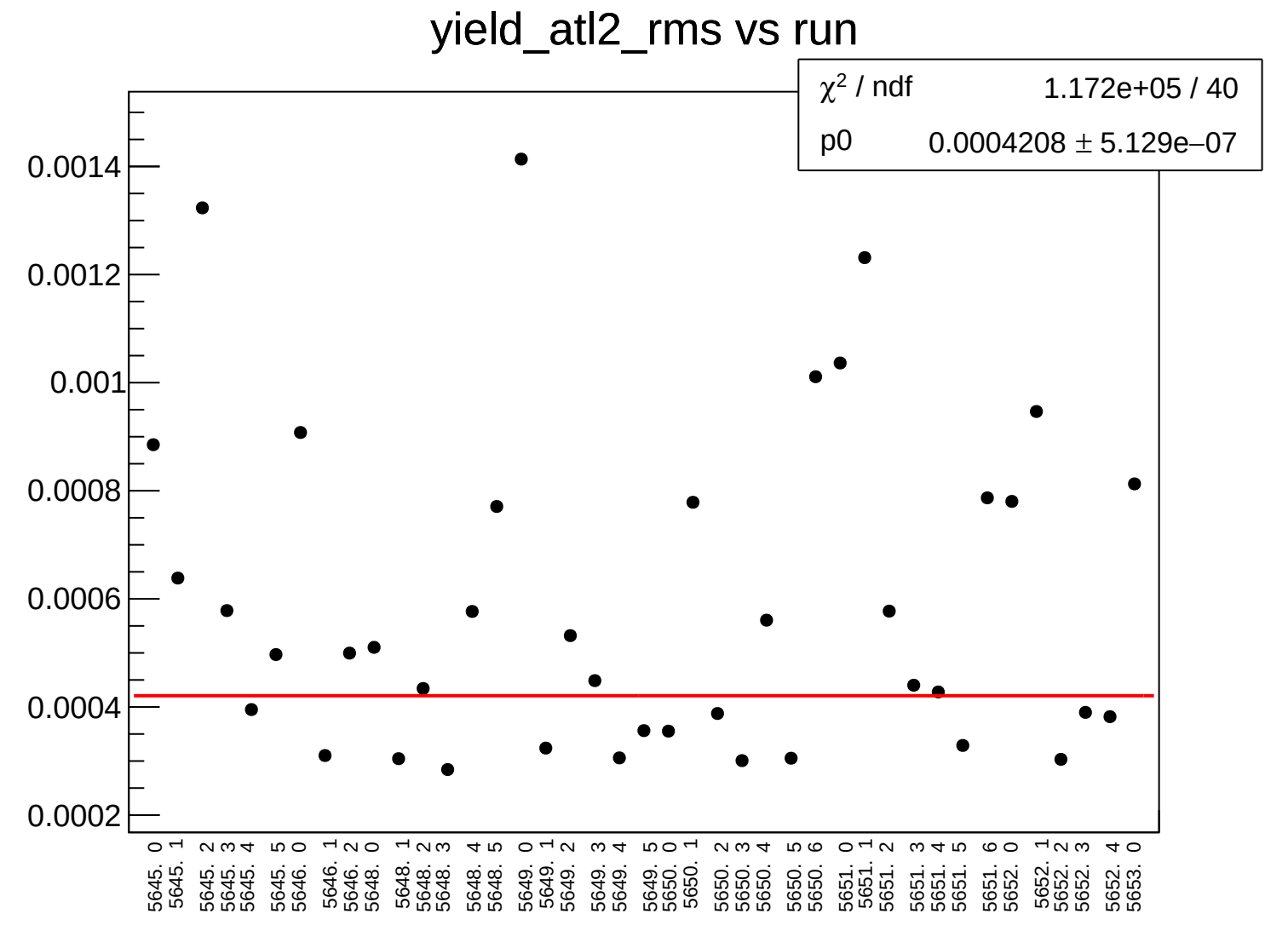

yield_atl1_mean vs run
χ² / ndf 6.623e+05 / 40
p0 0.01159 ± 8.859e−08
0.01185
0.0118
0.01175
0.0117
0.01165
0.0116
0.01155
0.0115
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −93.08
Std Dev 0
300
200
100
0
−100

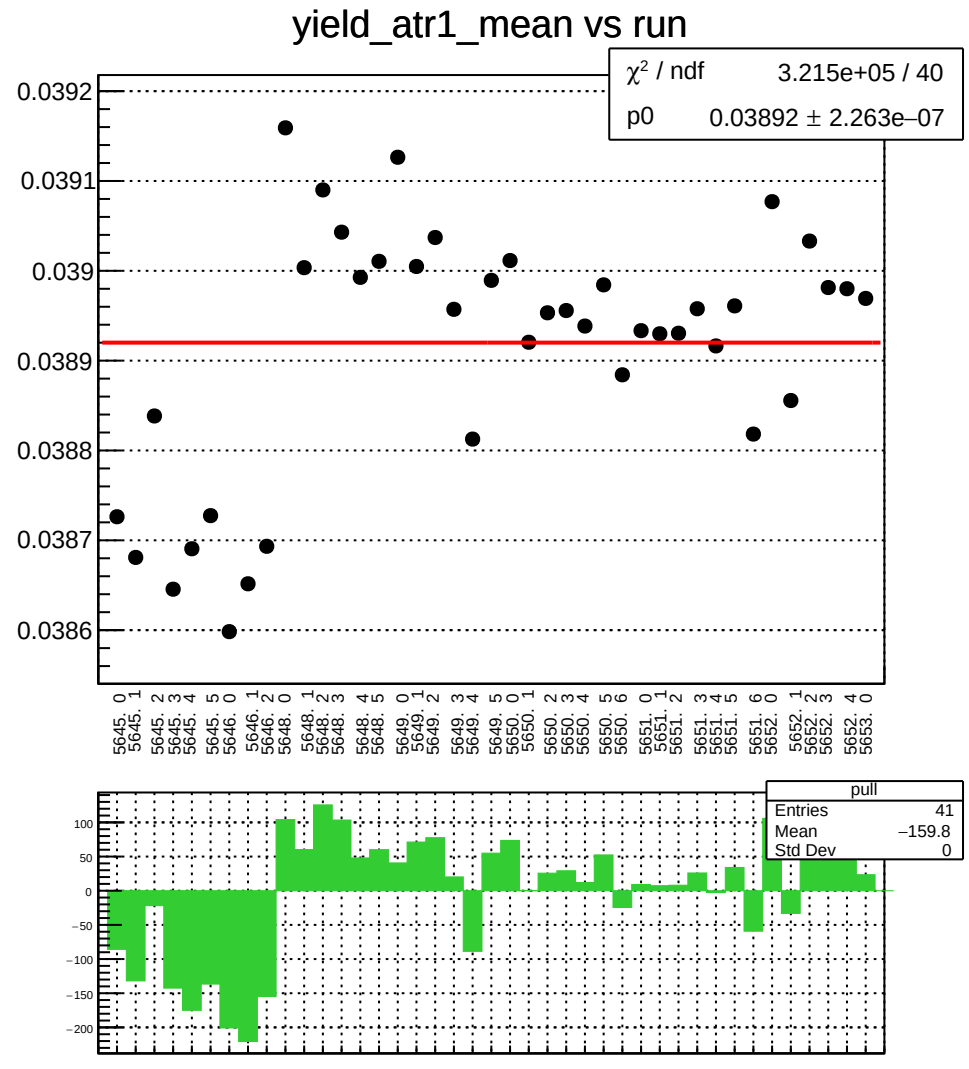

pull1D
Entries 41
Mean −2.175
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

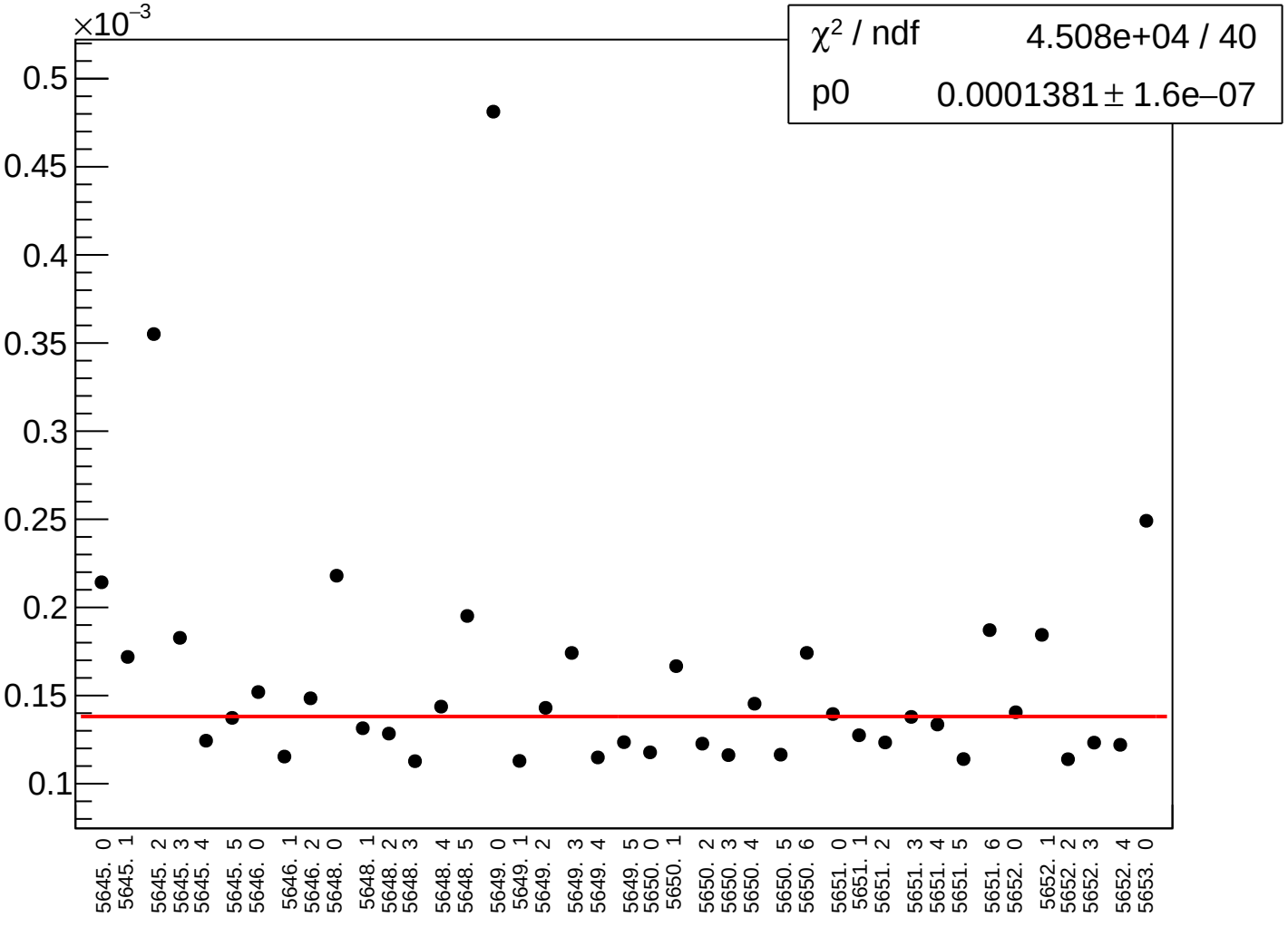

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.688e+04 / 40
p0 5.401e−05 ± 6.264e−08
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

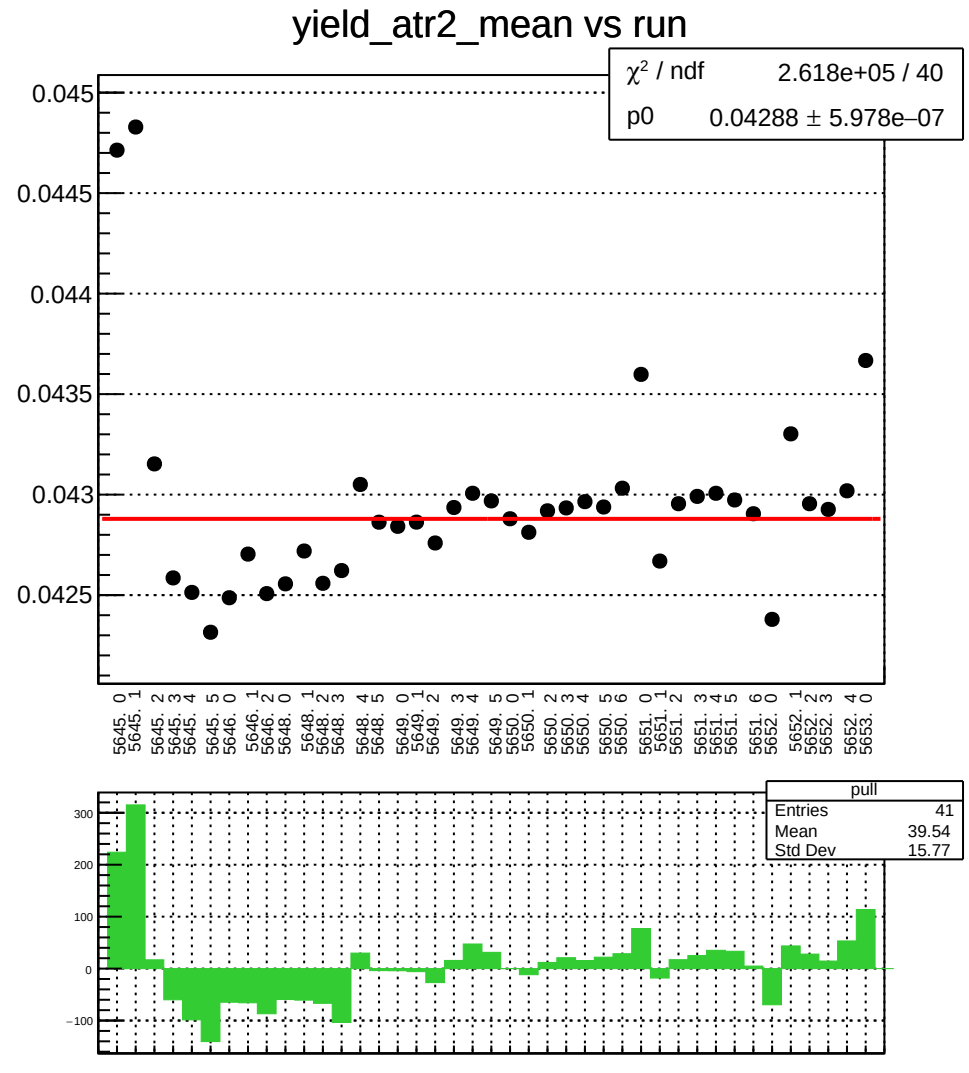

yield_atl2_mean vs run
χ² / ndf 3.552e+05 / 40
p0 0.04866 ± 7.254e−07
0.0515
0.051
0.0505
0.05
0.0495
0.049
0.0485
0.048
0.0475
pull
Entries 41
Mean 0.1792
Std Dev 18.07
400
300
200
100
0
−100

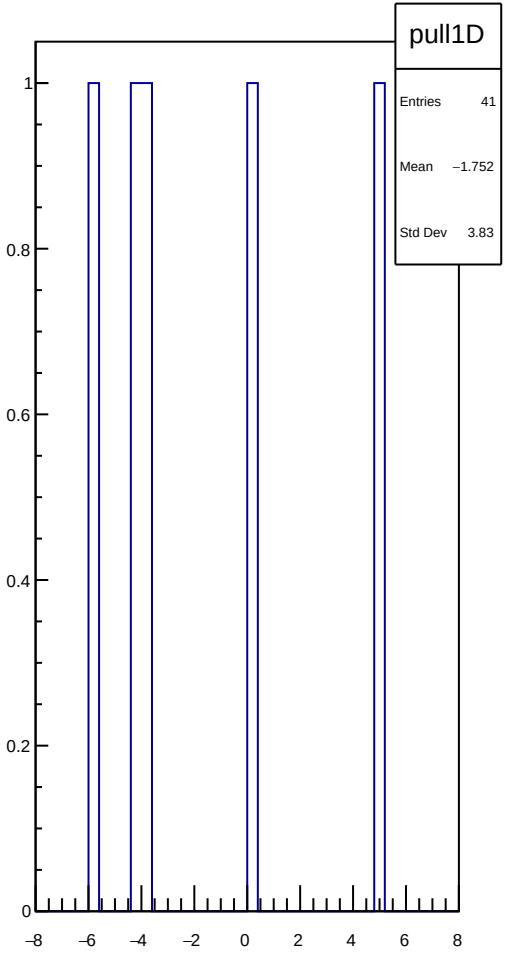

pull1D
Entries 41
Mean 1.008
Std Dev 5.264
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

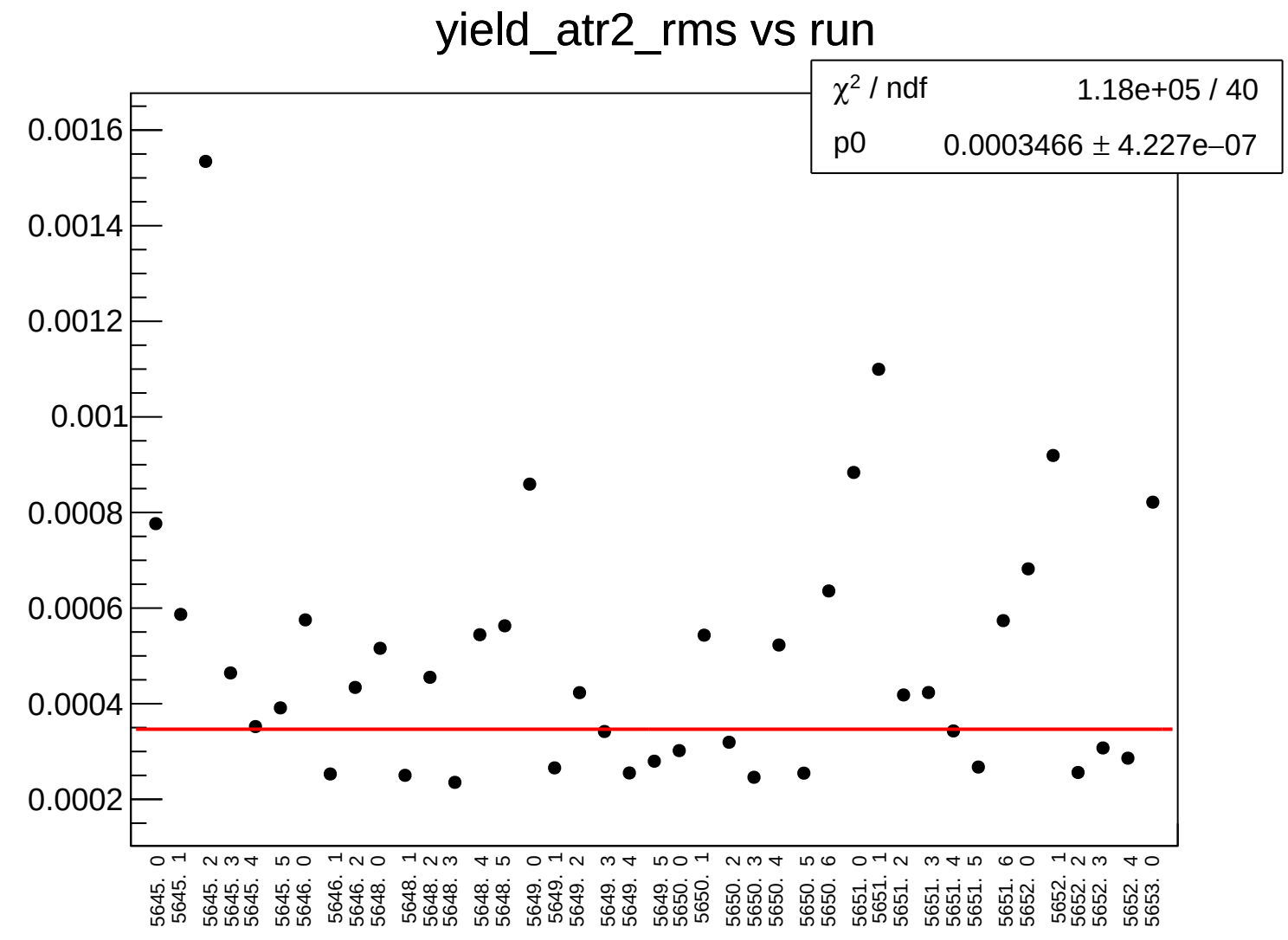

yield_atl2_rms vs run
χ² / ndf 1.172e+05 / 40
p0 0.0004208 ± 5.129e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

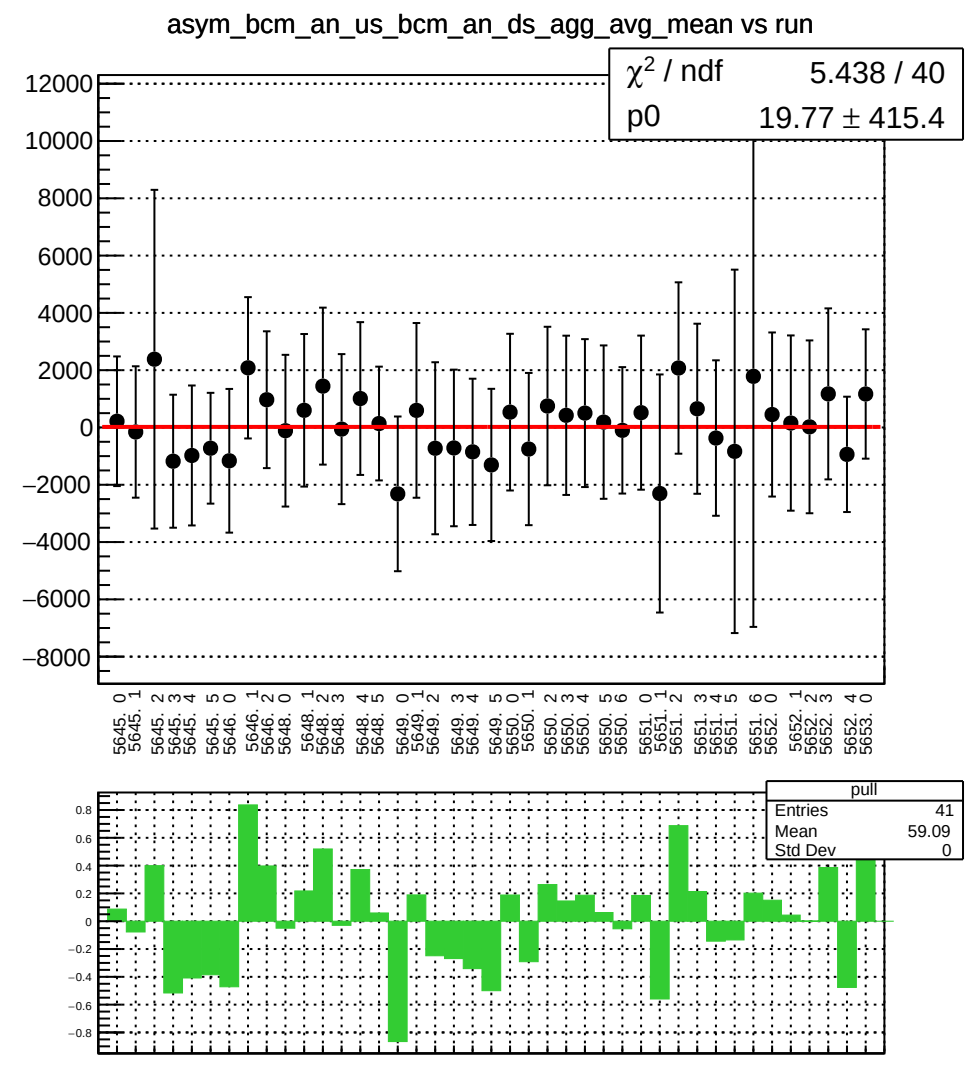

yield_atr1_mean vs run
χ² / ndf 3.215e+05 / 40
p0 0.03892 ± 2.263e−07
0.0392
0.0391
0.039
0.0389
0.0388
0.0387
0.0386
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −159.8
Std Dev 0
100
50
0
−50
−100
−150
−200
pull1D
Entries 41
Mean 1.653
Std Dev 4.183
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

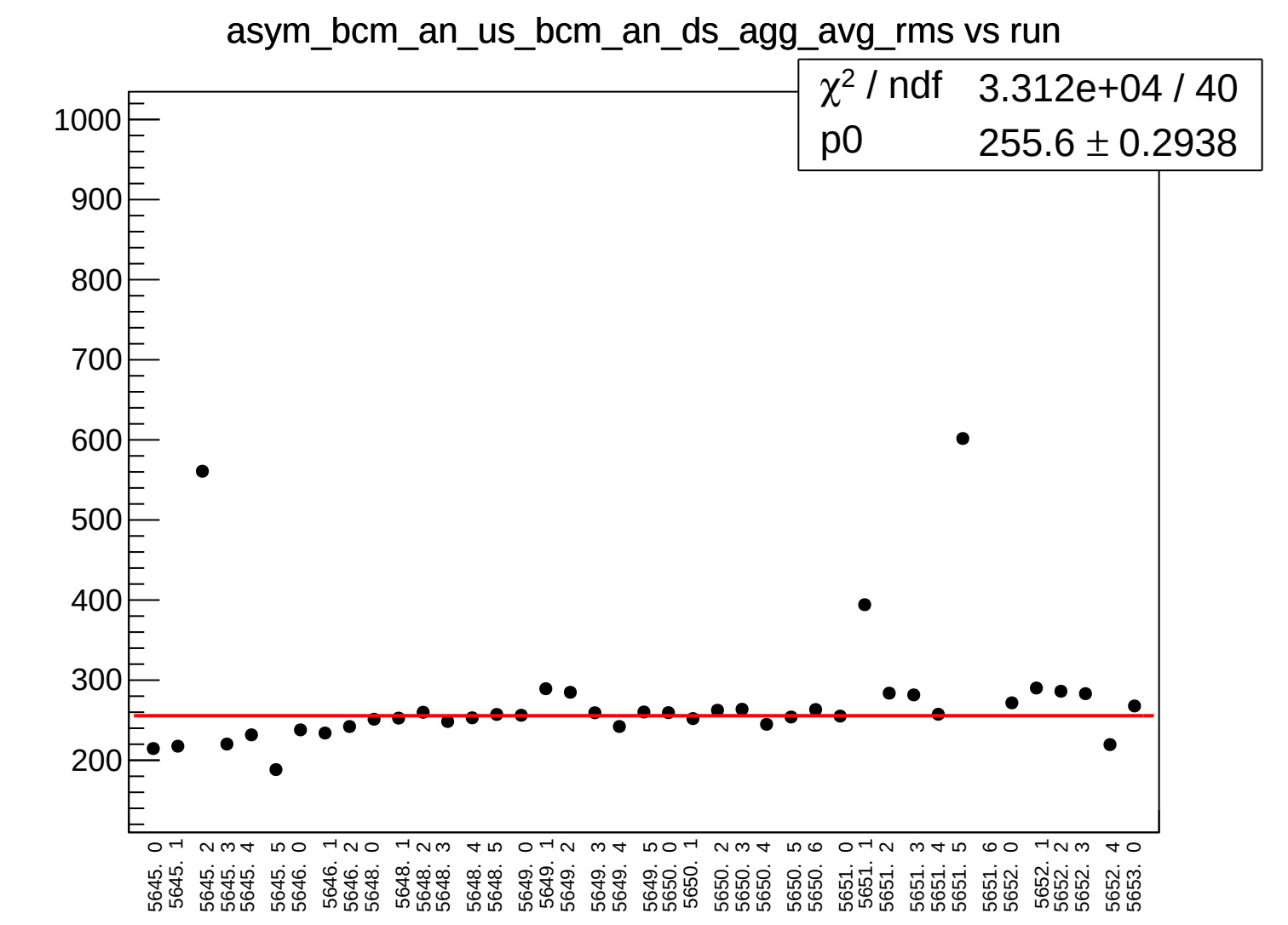

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.508e+04 / 40
p0 0.0001381 ± 1.6e–07
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

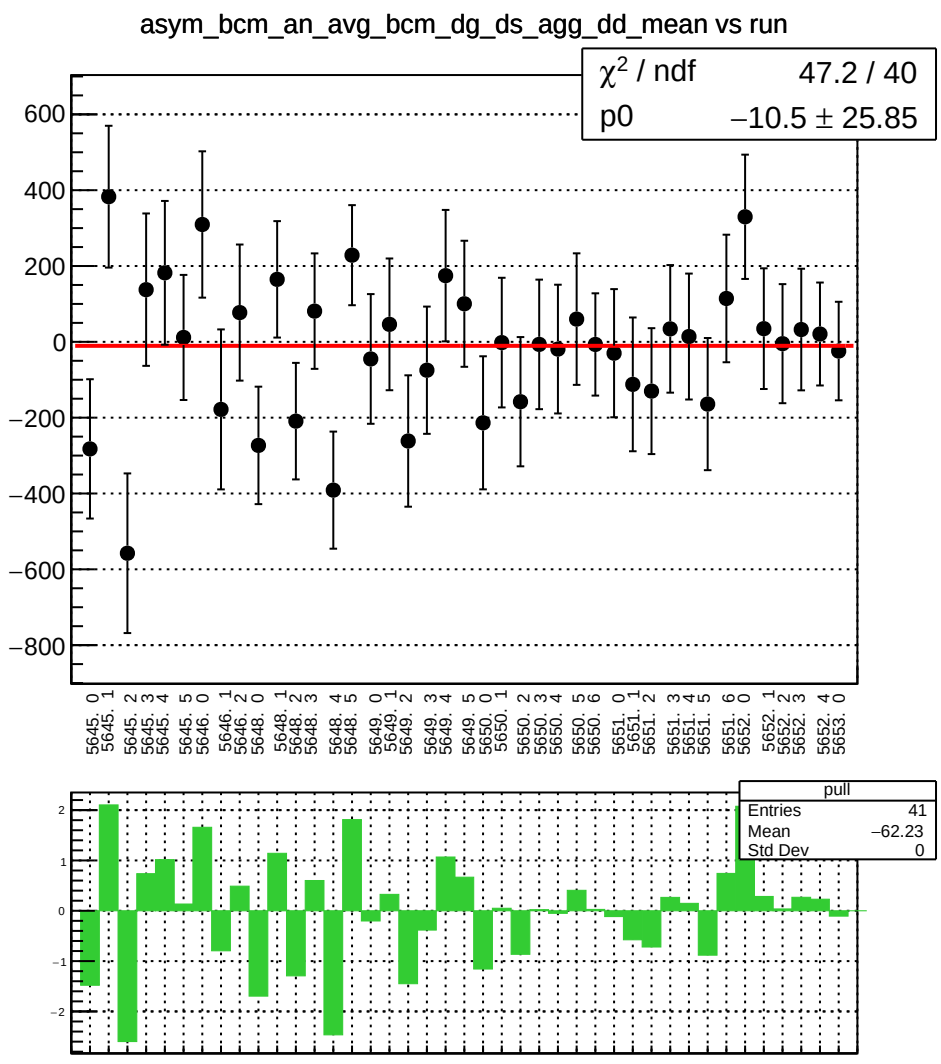

yield_atr2_mean vs run
χ² / ndf 2.618e+05 / 40
p0 0.04288 ± 5.978e−07
0.045
0.0445
0.044
0.0435
0.043
0.0425
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 39.54
Std Dev 15.77
300
200
100
0
−100

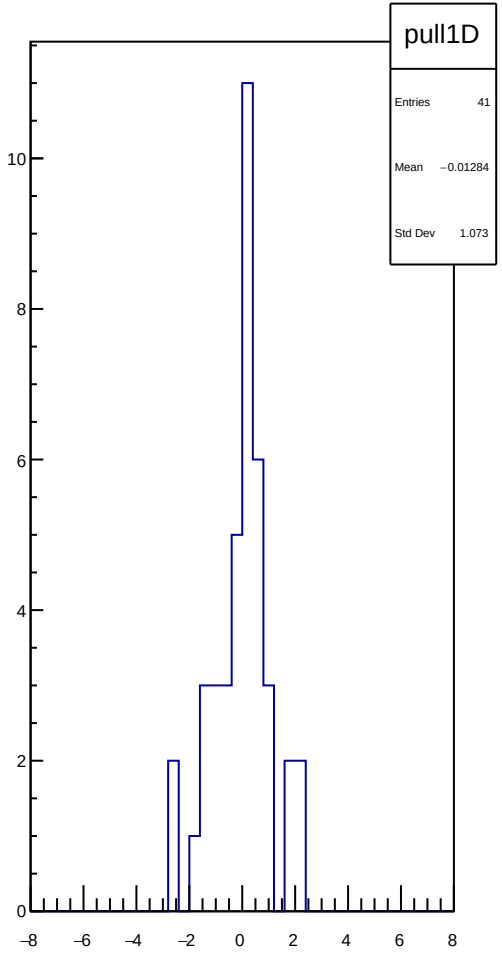

pull1D
Entries 41
Mean −1.752
Std Dev 3.83
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

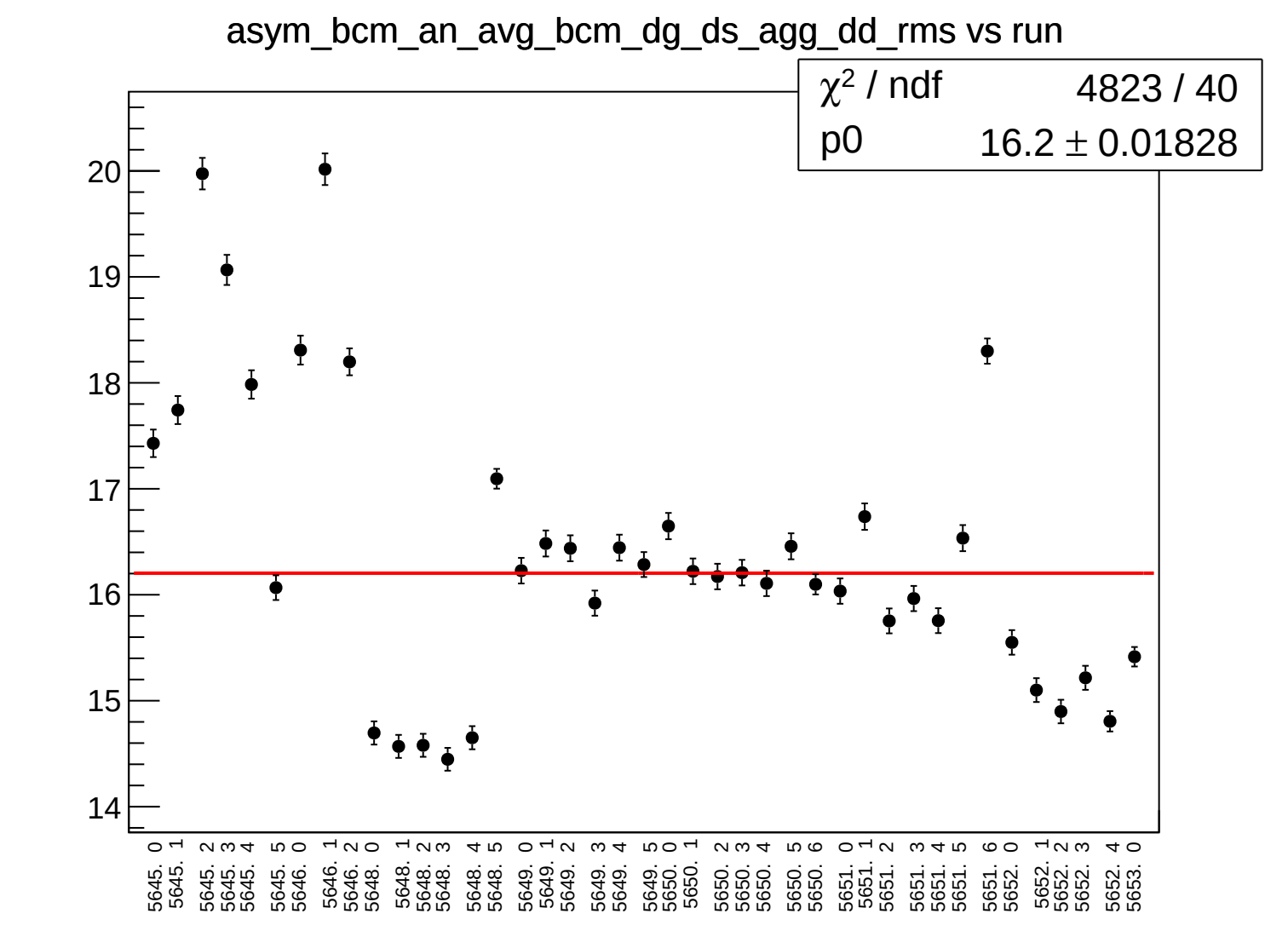

yield_atr2_rms vs run
χ² / ndf 1.18e+05 / 40
p0 0.0003466 ± 4.227e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

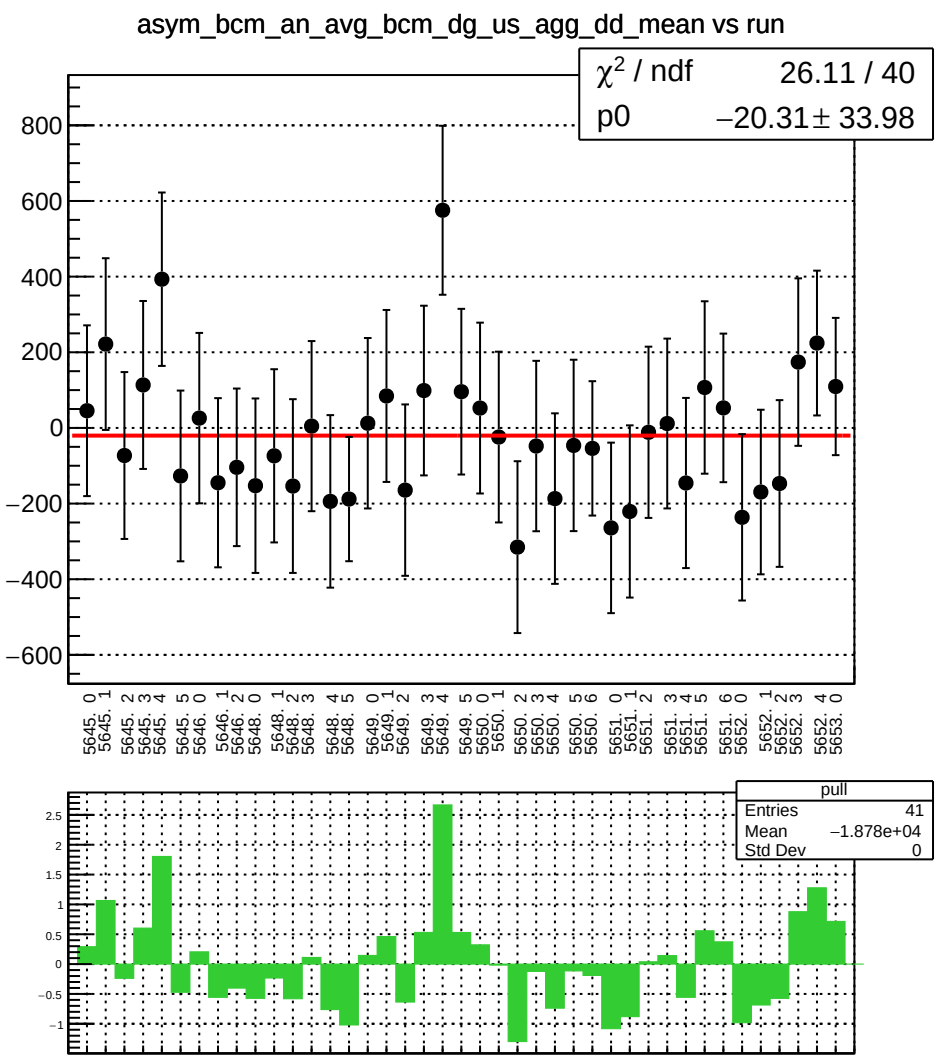

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 5.438 / 40
p0 19.77 ± 415.4
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 59.09
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01184
Std Dev 0.364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

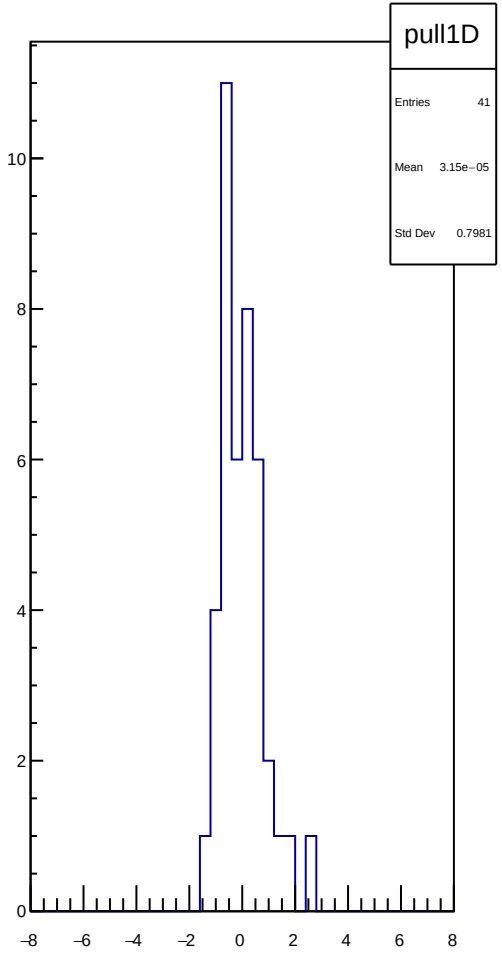

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.312e+04 / 40
p0 255.6 ± 0.2938
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

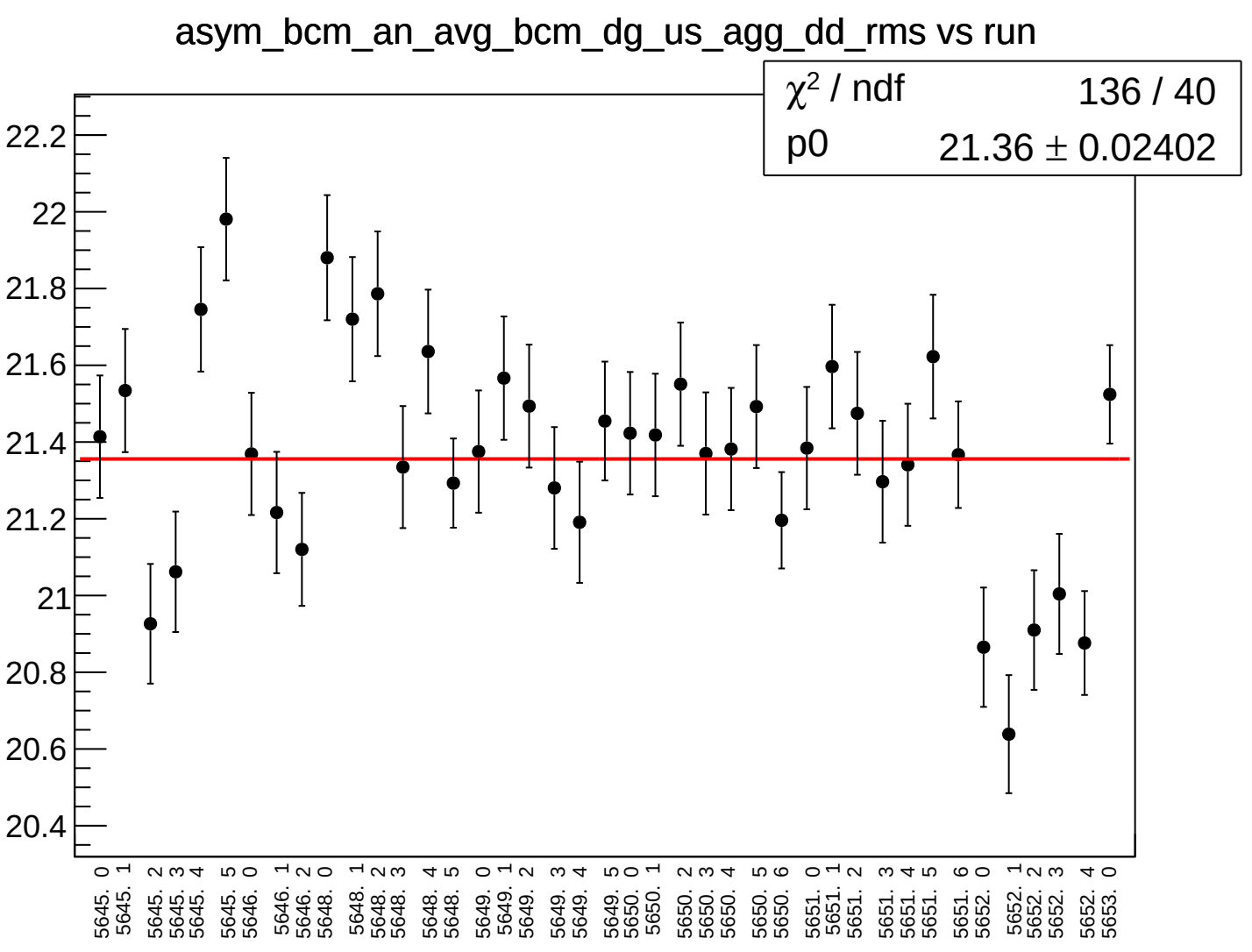

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 47.2 / 40
p0 −10.5 ± 25.85
pull
Entries 41
Mean −62.23
Std Dev 0

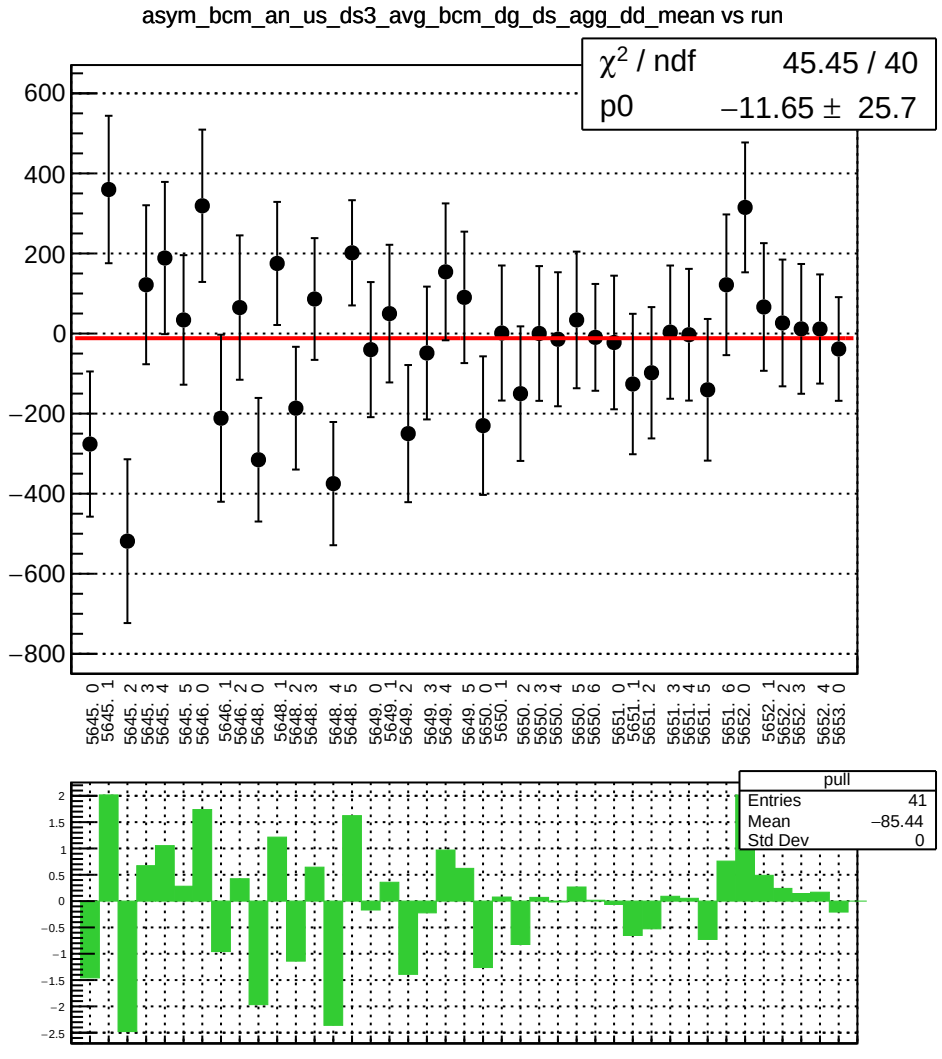

pull1D
Entries 41
Mean −0.01284
Std Dev 1.073

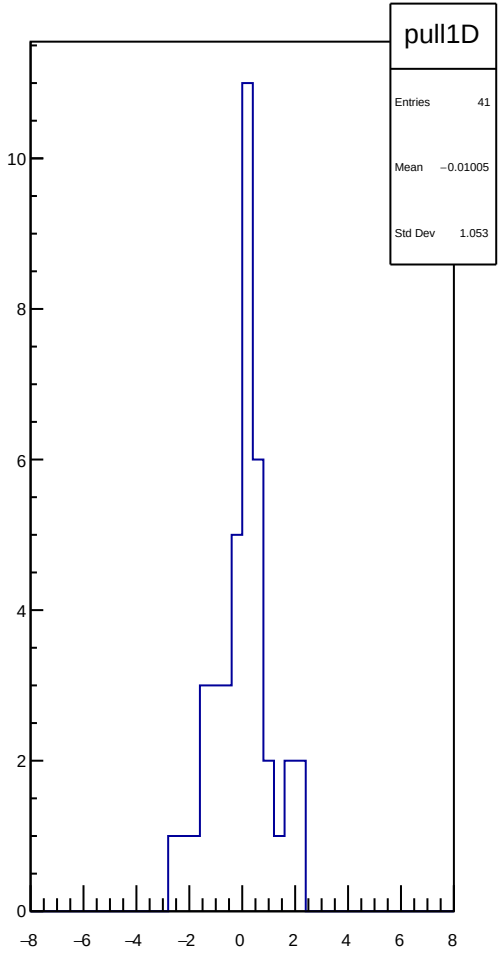

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4823 / 40
p0 16.2 ± 0.01828
20
19
18
17
16
15
14
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

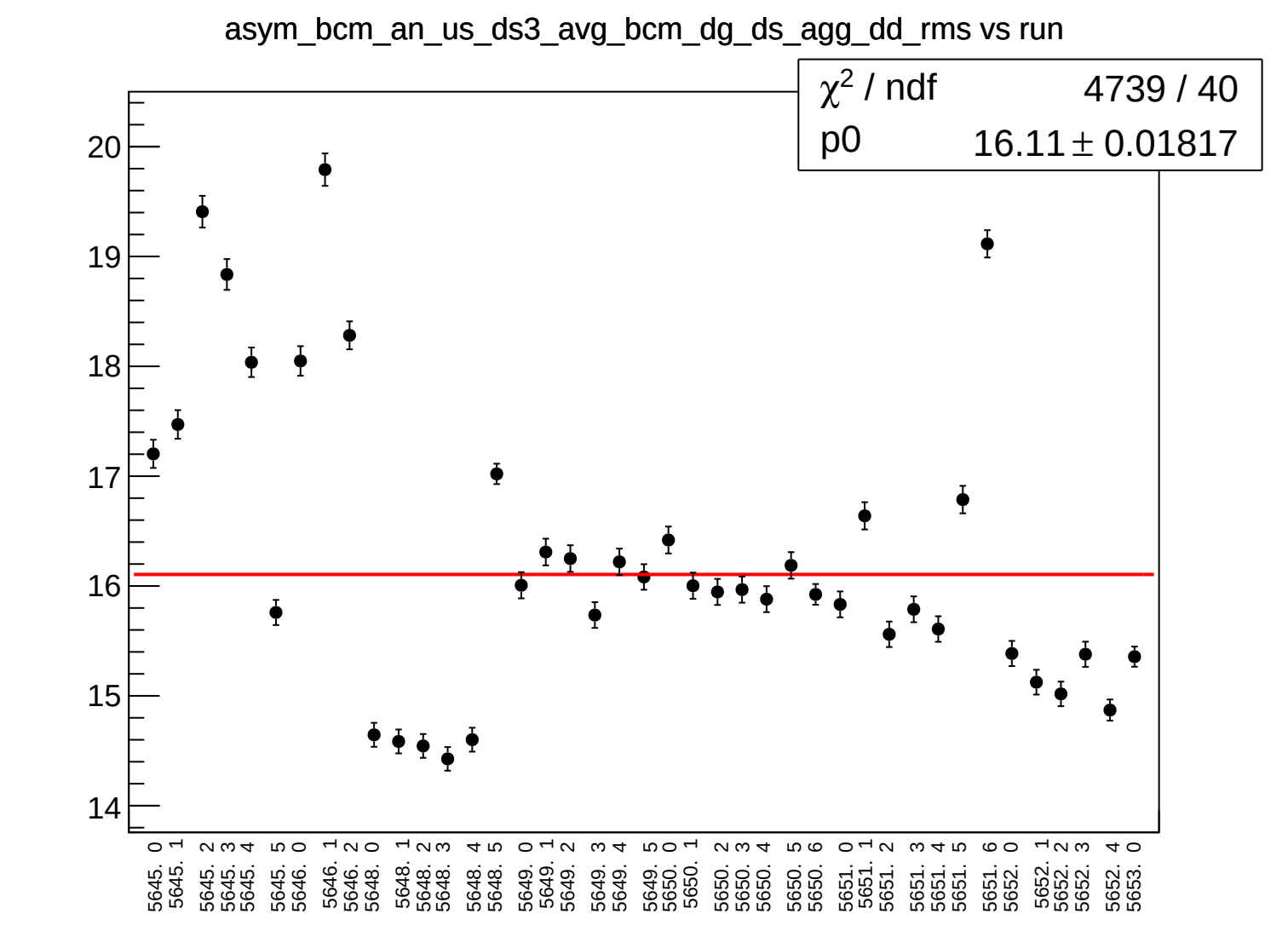

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 26.11 / 40
p0 −20.31 ± 33.98
pull
Entries 41
Mean −1.878e+04
Std Dev 0

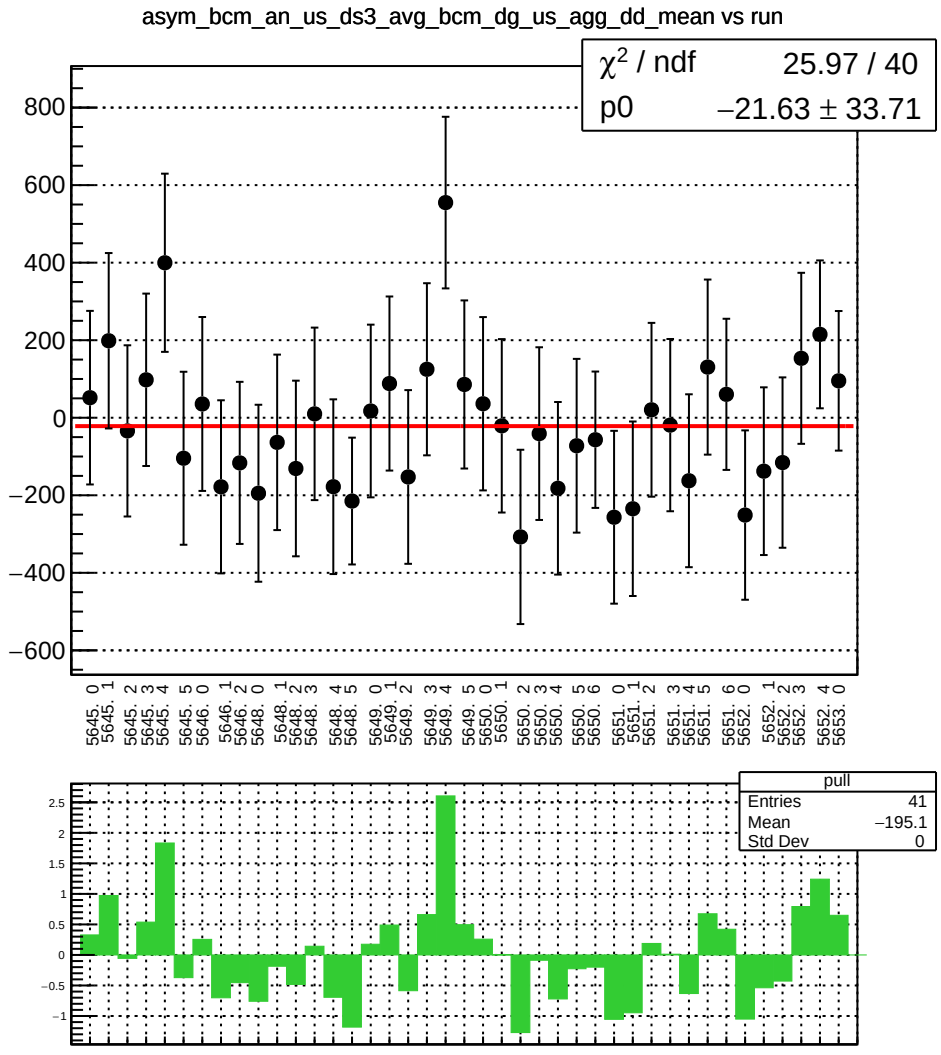

pull1D
Entries 41
Mean 3.15e−05
Std Dev 0.7981

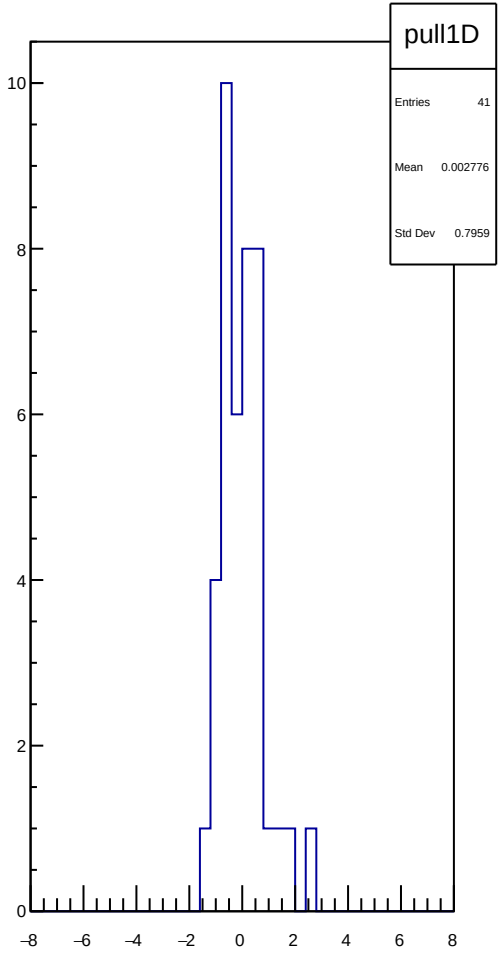

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 136 / 40
p0 21.36 ± 0.02402
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

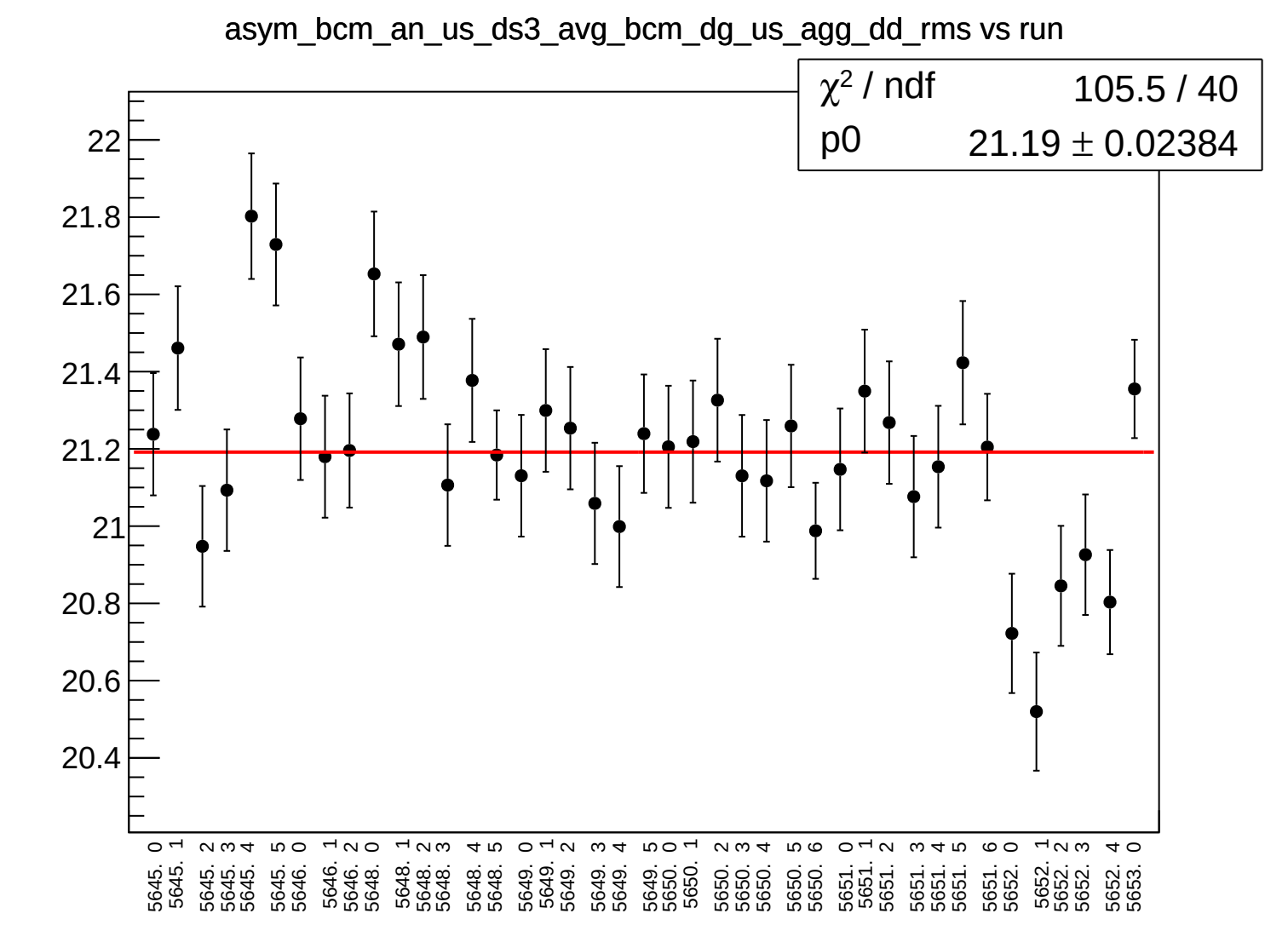

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 45.45 / 40
p0 −11.65 ± 25.7
pull
Entries 41
Mean −85.44
Std Dev 0

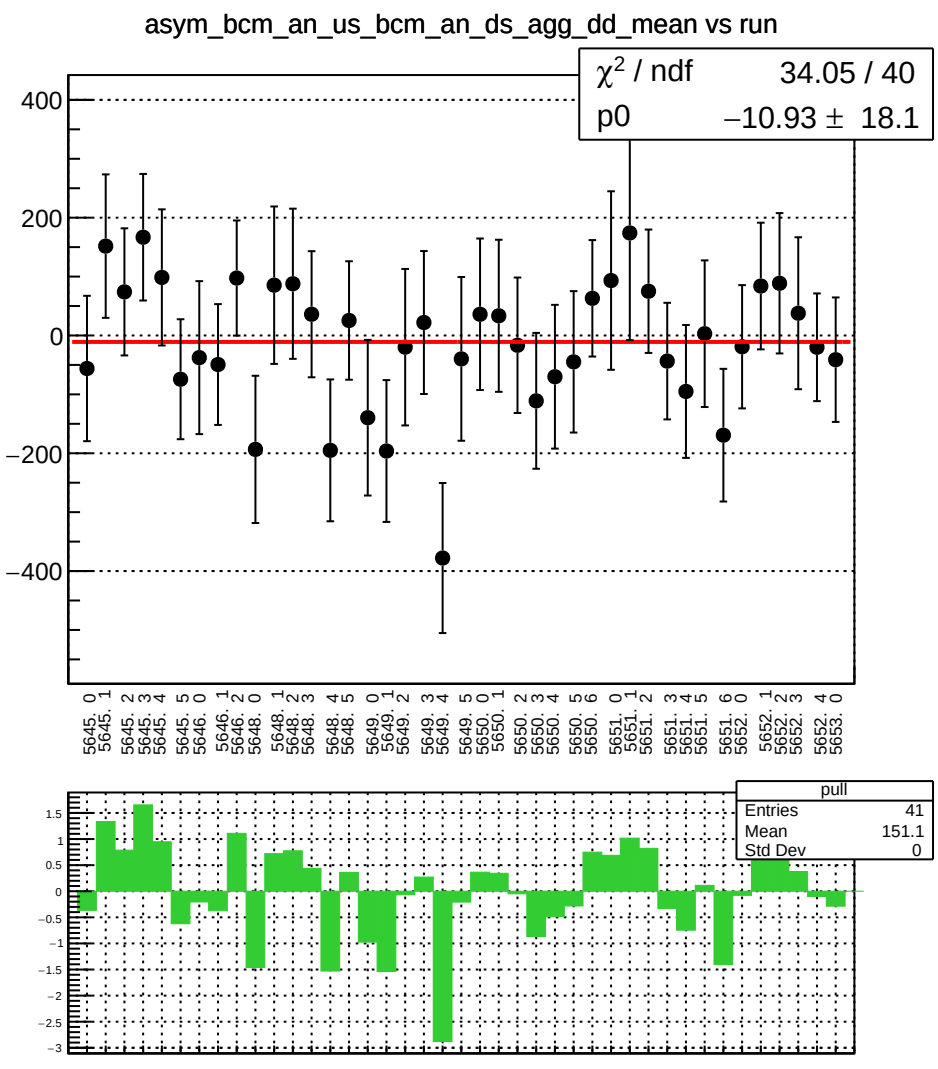

pull1D
Entries 41
Mean −0.01005
Std Dev 1.053

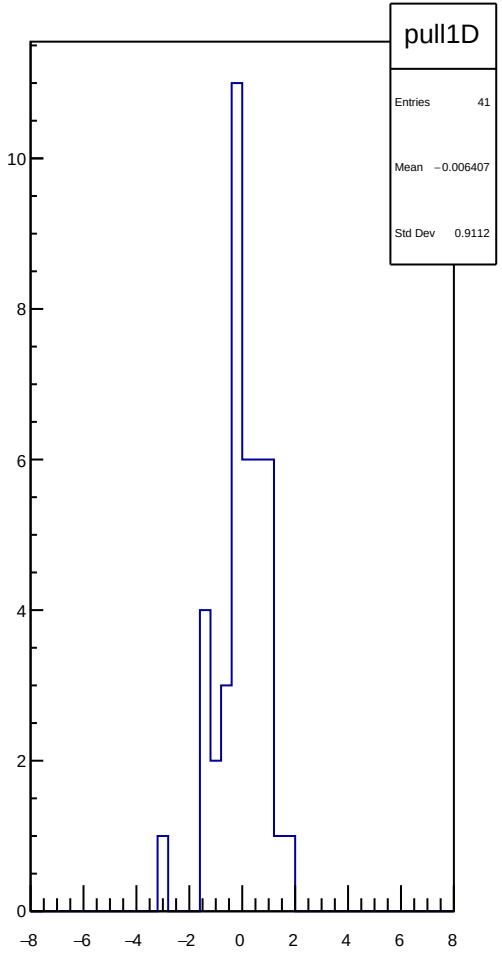

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4739 / 40
p0 16.11 ± 0.01817
20
19
18
17
16
15
14
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

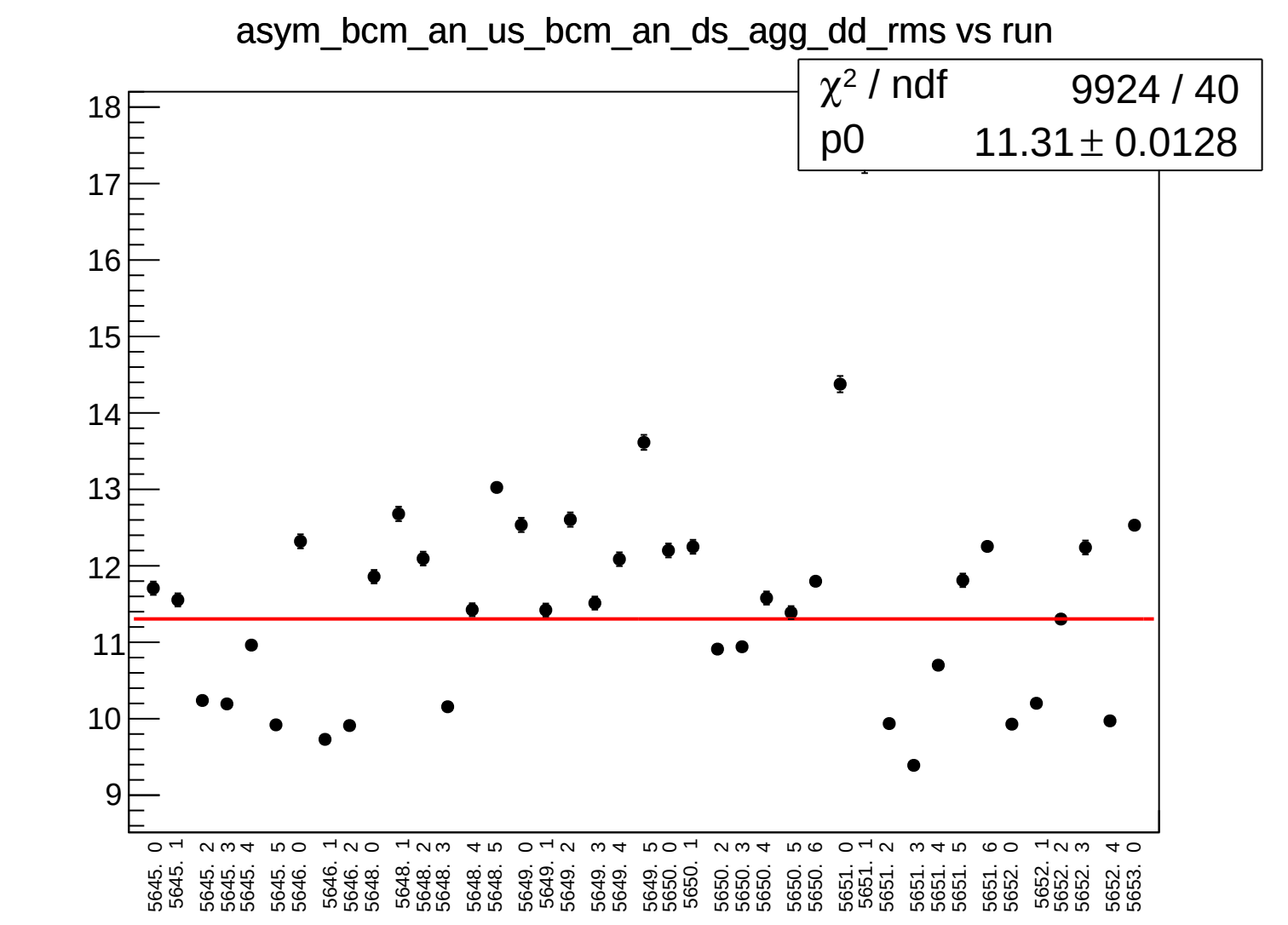

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 25.97 / 40
p0 −21.63 ± 33.71
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −195.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

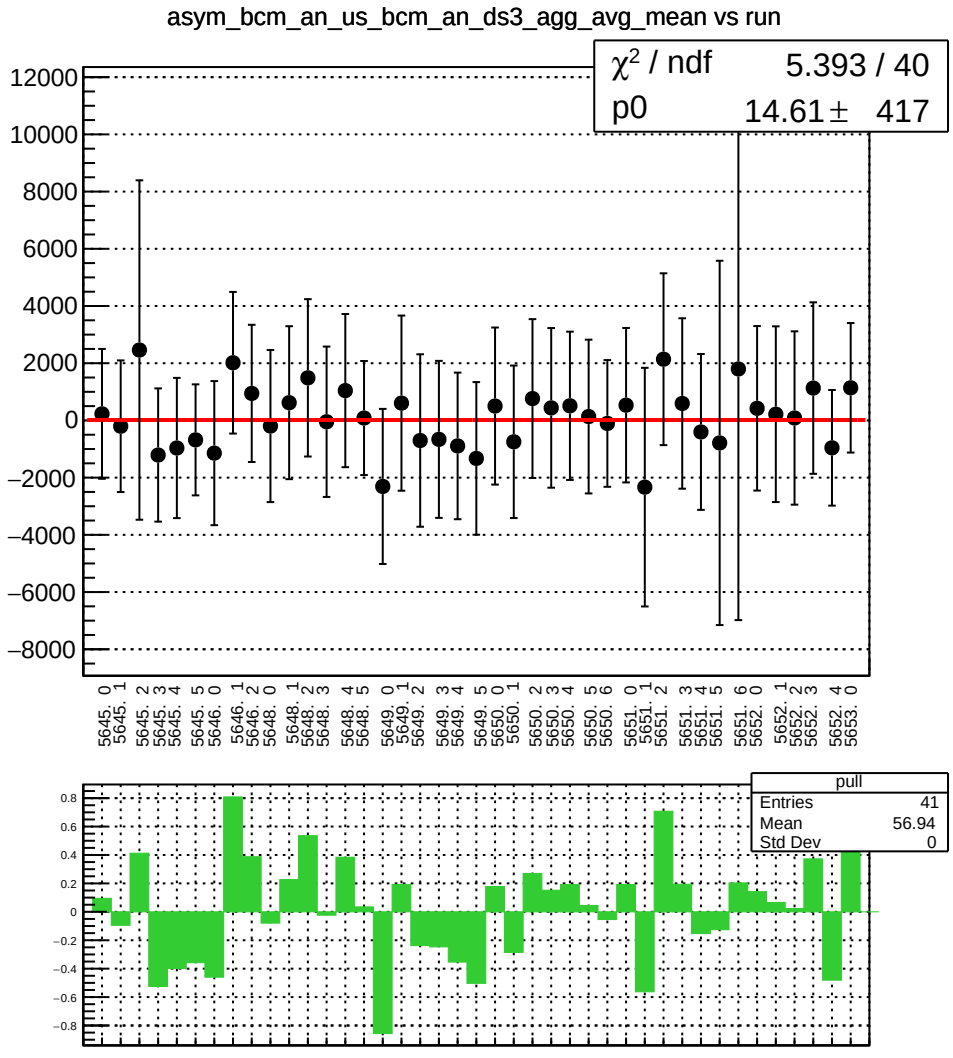

pull1D
Entries 41
Mean 0.002776
Std Dev 0.7959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

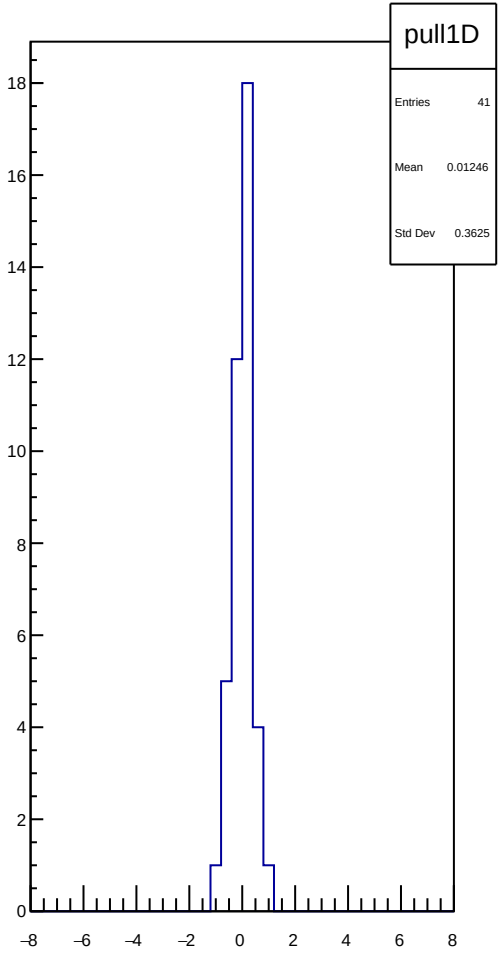

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 105.5 / 40
p0 21.19 ± 0.02384
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

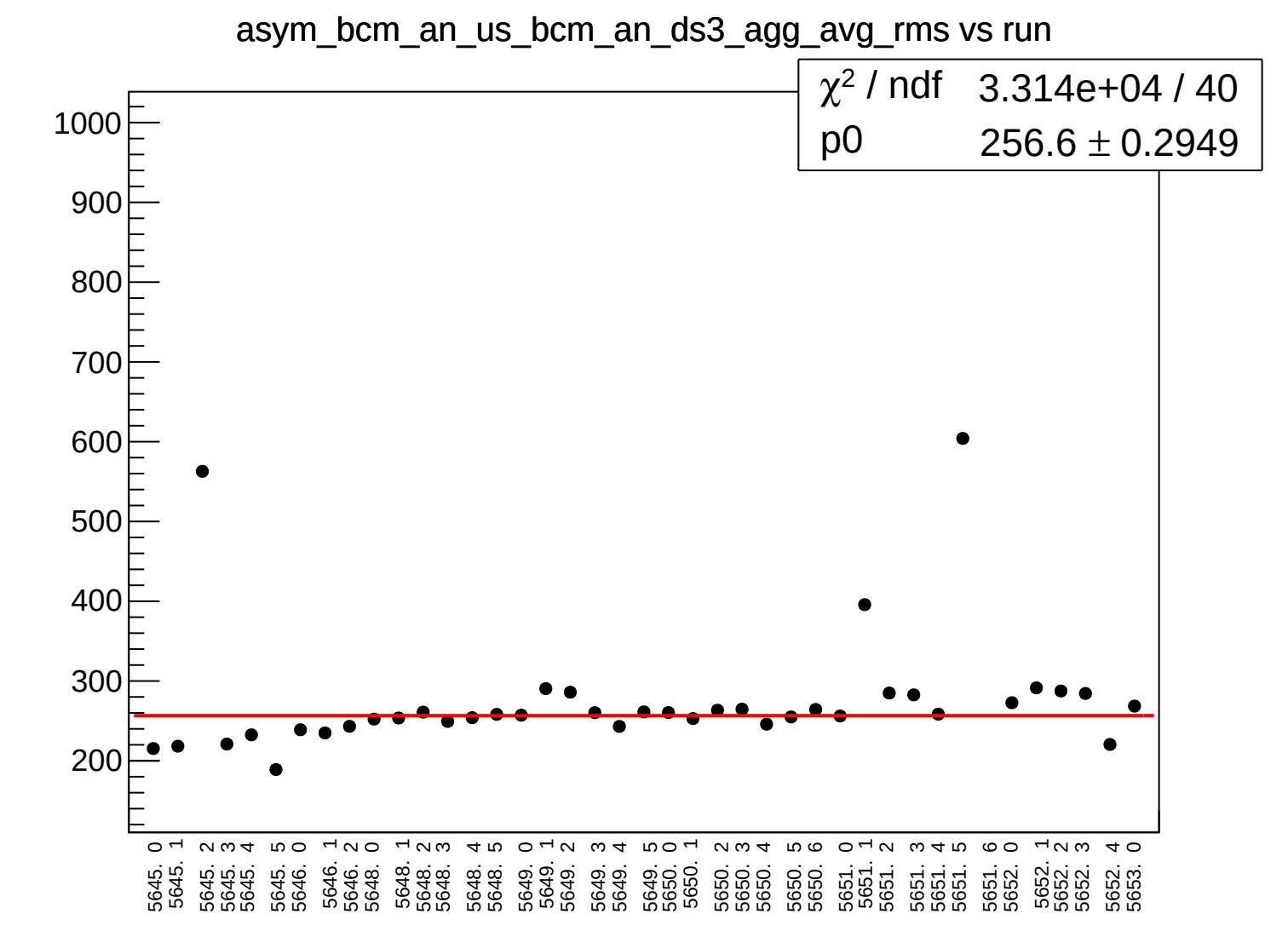

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 34.05 / 40
p0 −10.93 ± 18.1
400
200
0
−200
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

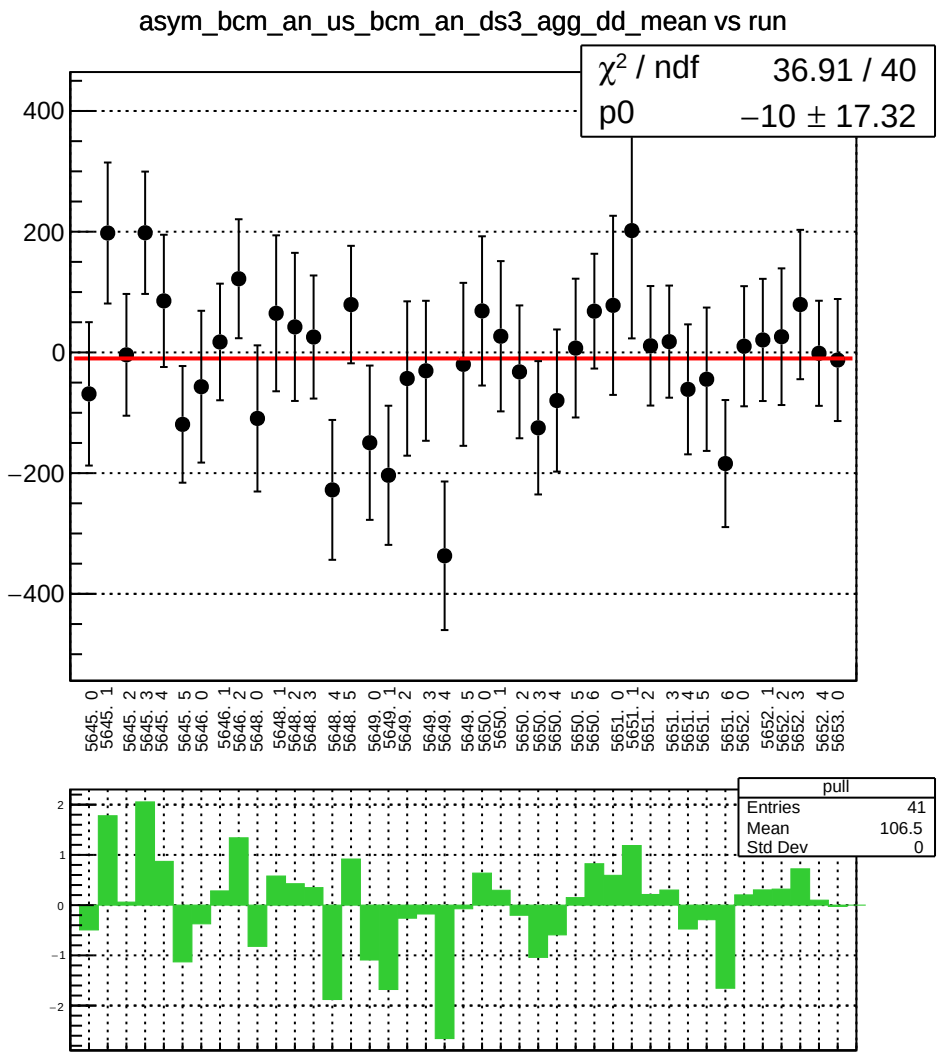

pull1D
Entries 41
Mean −0.006407
Std Dev 0.9112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

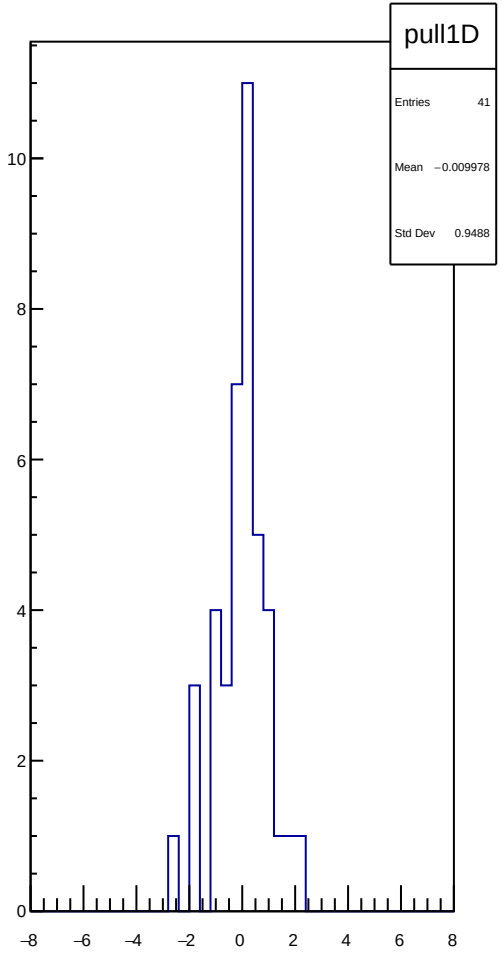

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9924 / 40
p0 11.31 ± 0.0128
18
17
16
15
14
13
12
11
10
9
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

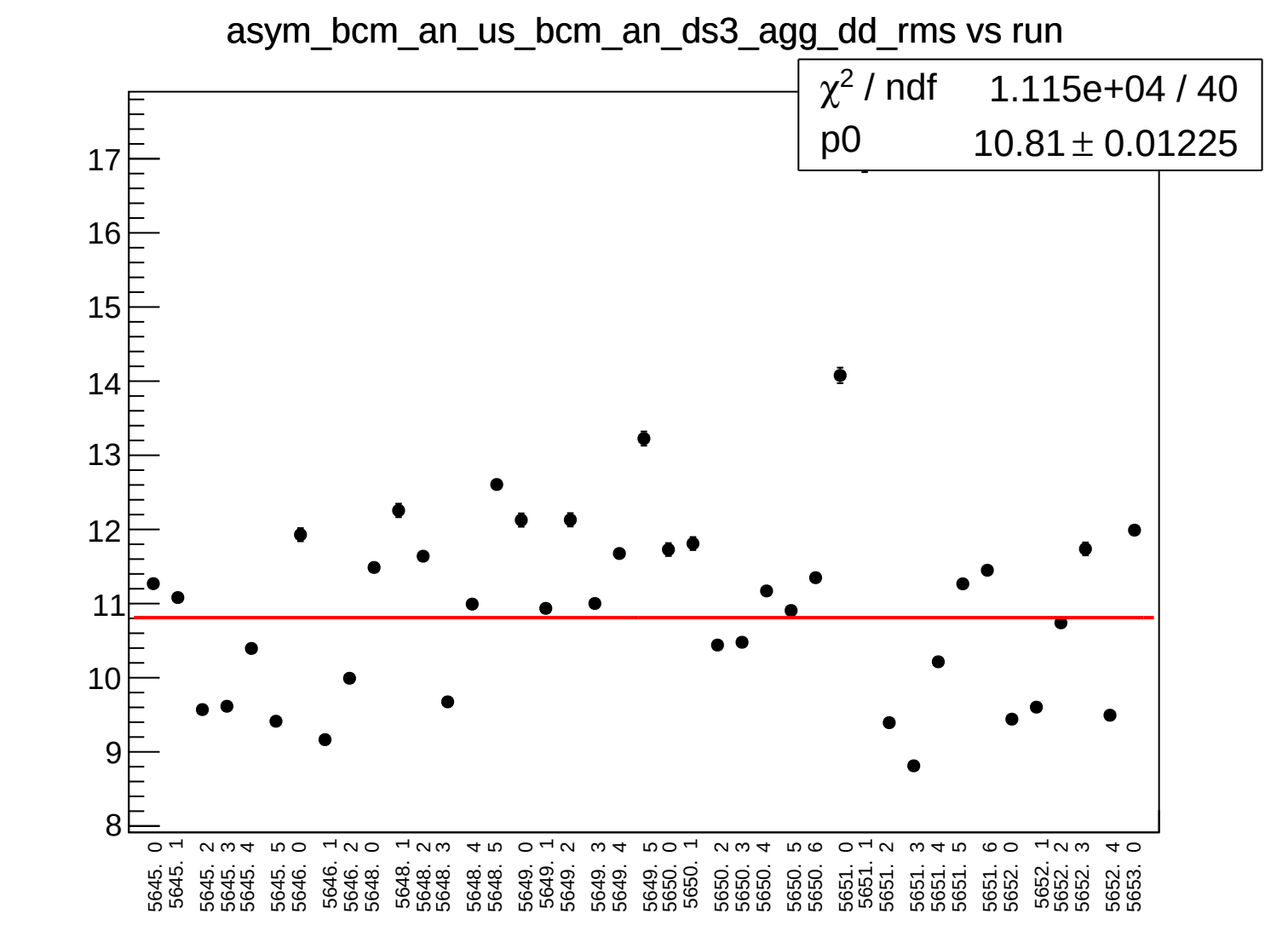

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 5.393 / 40
p0 14.61 ± 417
pull
Entries 41
Mean 56.94
Std Dev 0

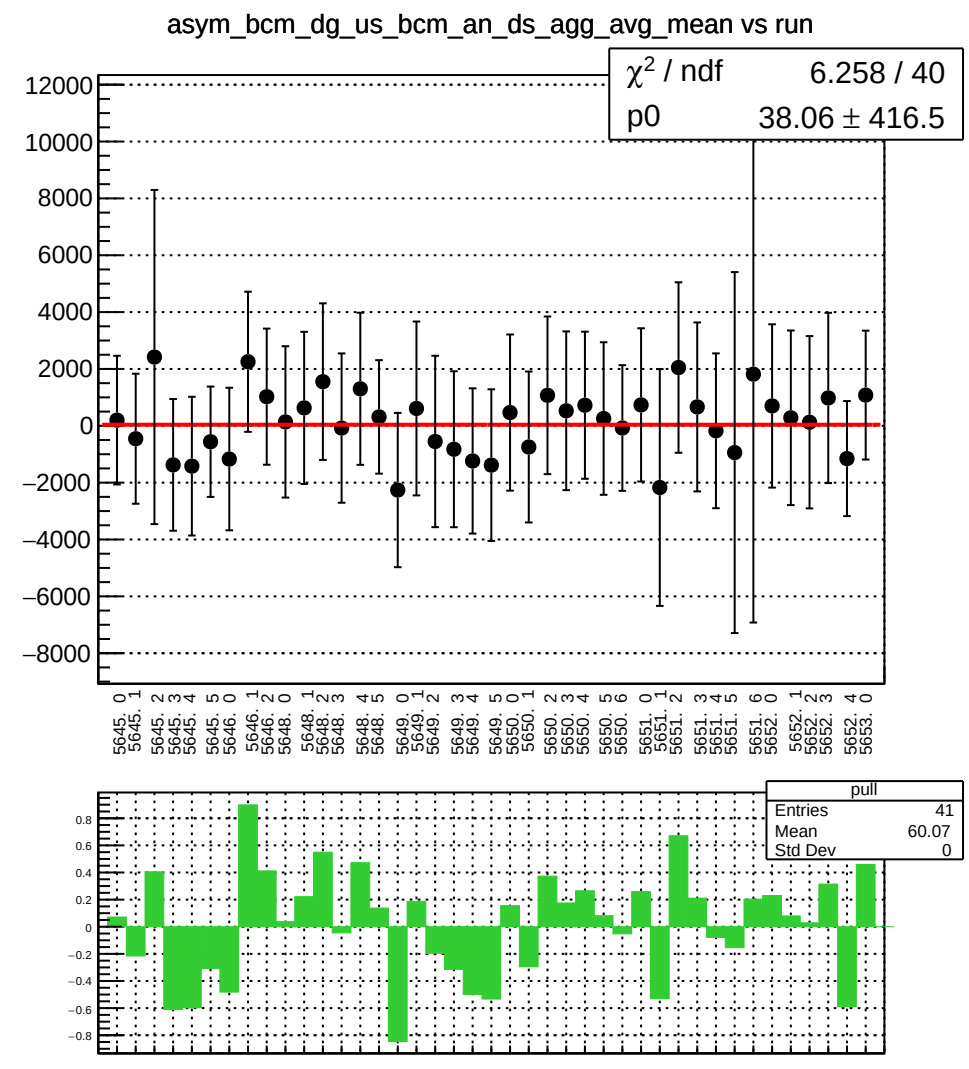

pull1D
Entries 41
Mean 0.01246
Std Dev 0.3625

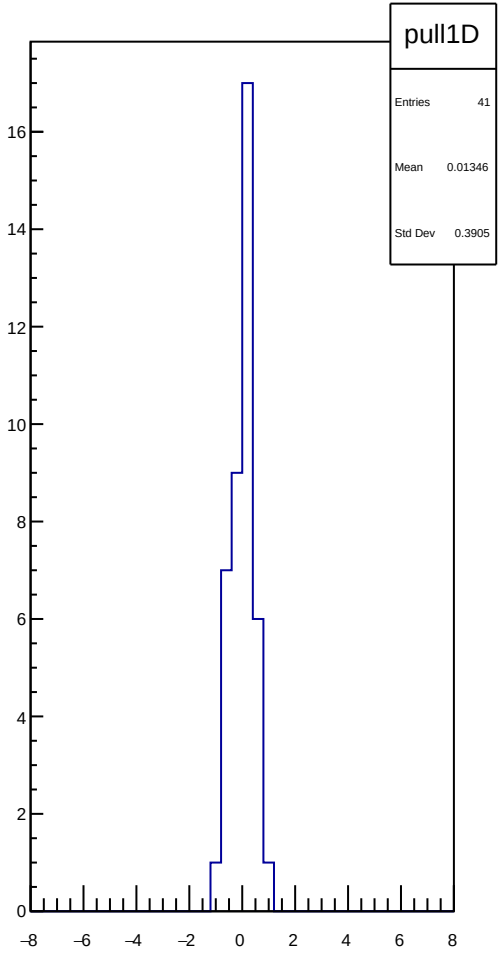

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.314e+04 / 40
p0 256.6 ± 0.2949
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

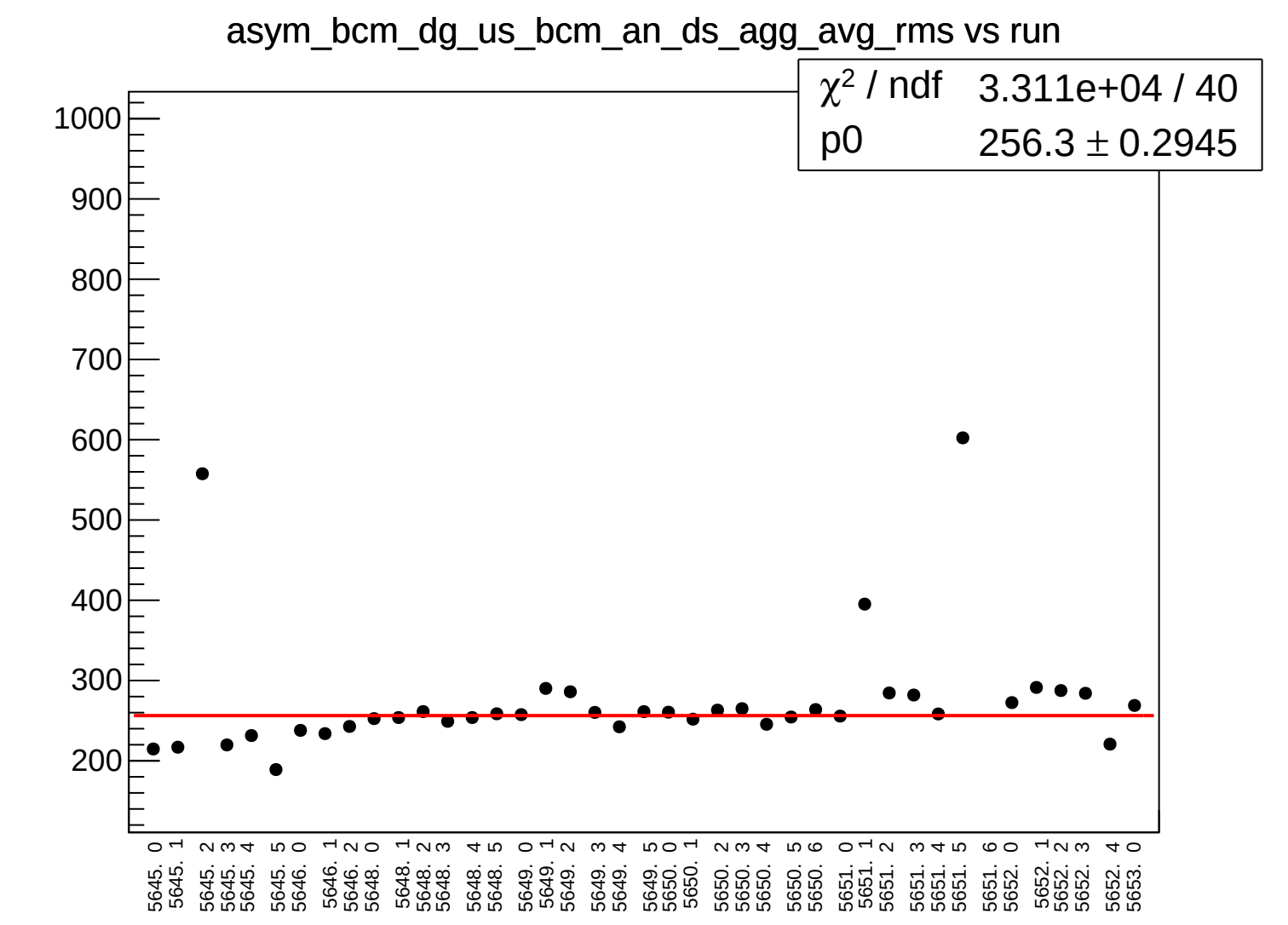

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 36.91 / 40
p0 −10 ± 17.32
400
200
0
−200
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 106.5
Std Dev 0
2
1
0
−1
−2

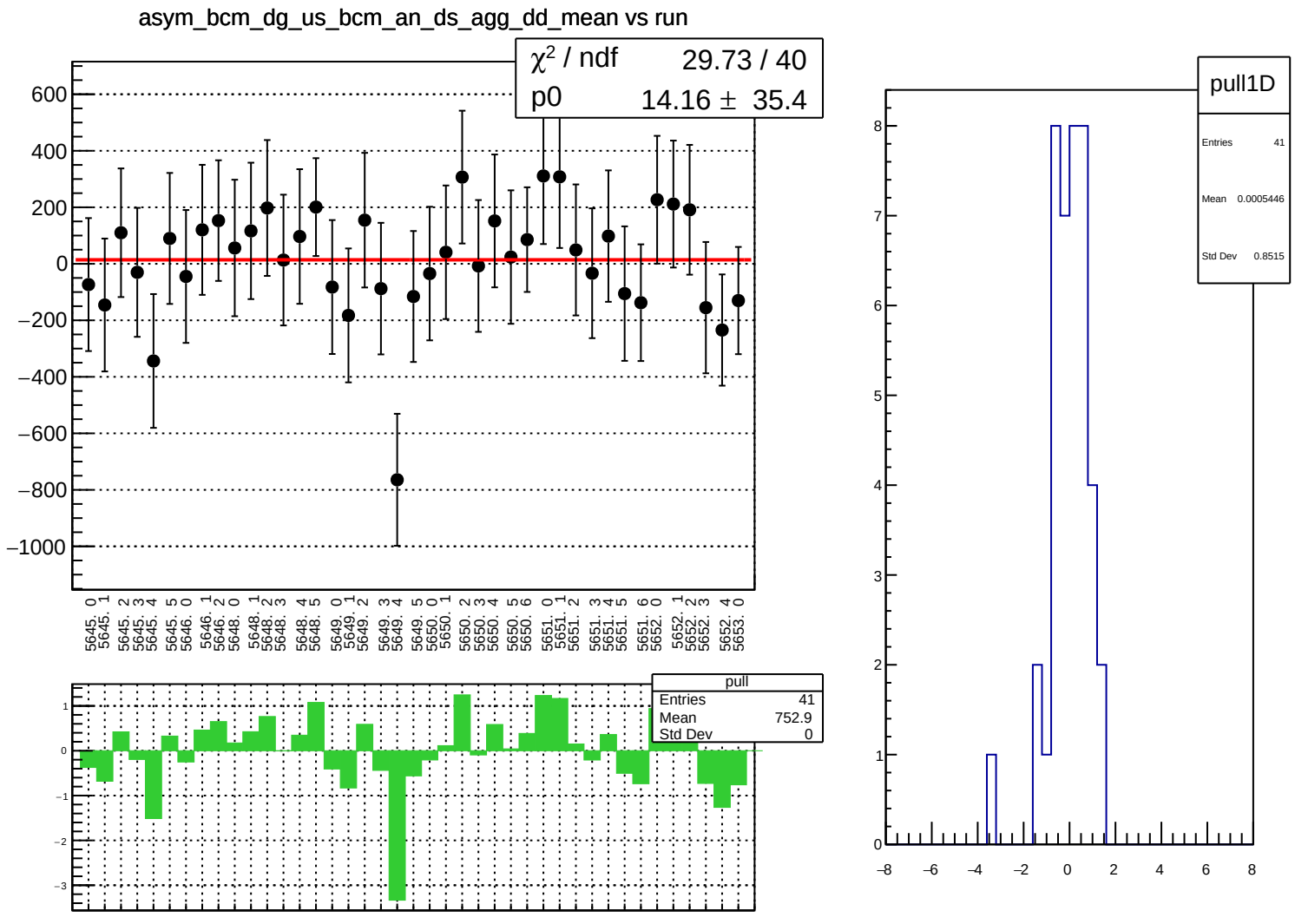

pull1D
Entries 41
Mean −0.009978
Std Dev 0.9488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

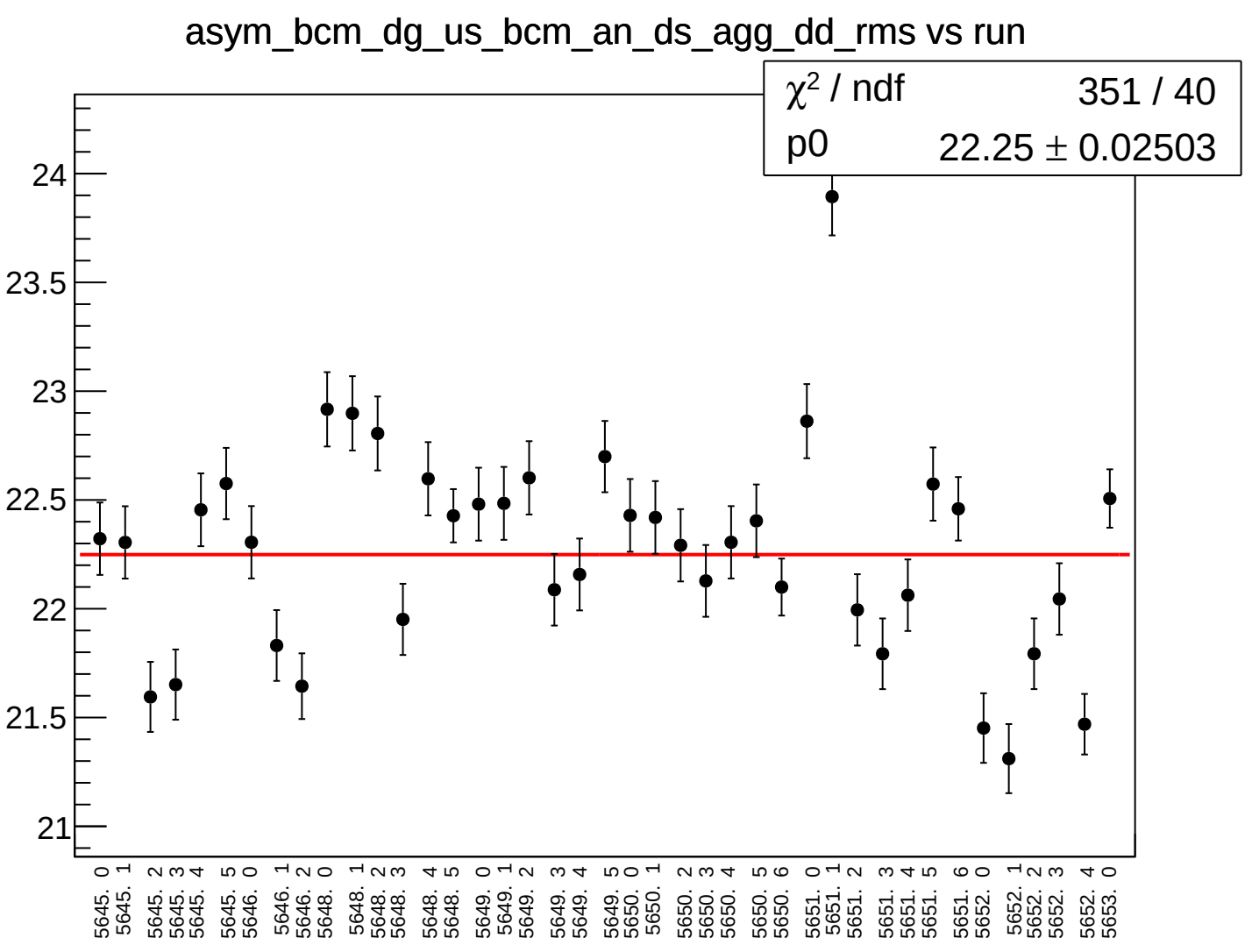

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.115e+04 / 40
p0 10.81 ± 0.01225
17
16
15
14
13
12
11
10
9
8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

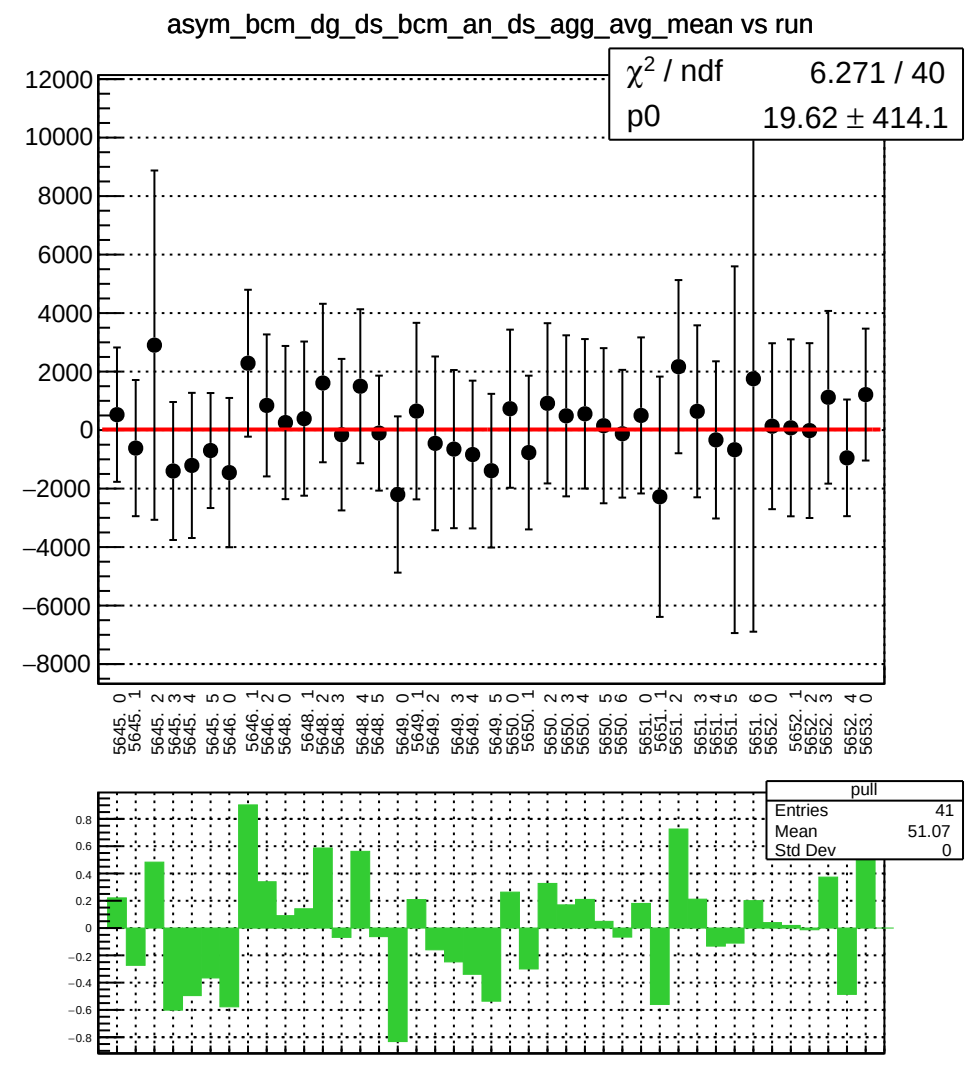

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.258 / 40
p0 38.06 ± 416.5
pull
Entries 41
Mean 60.07
Std Dev 0

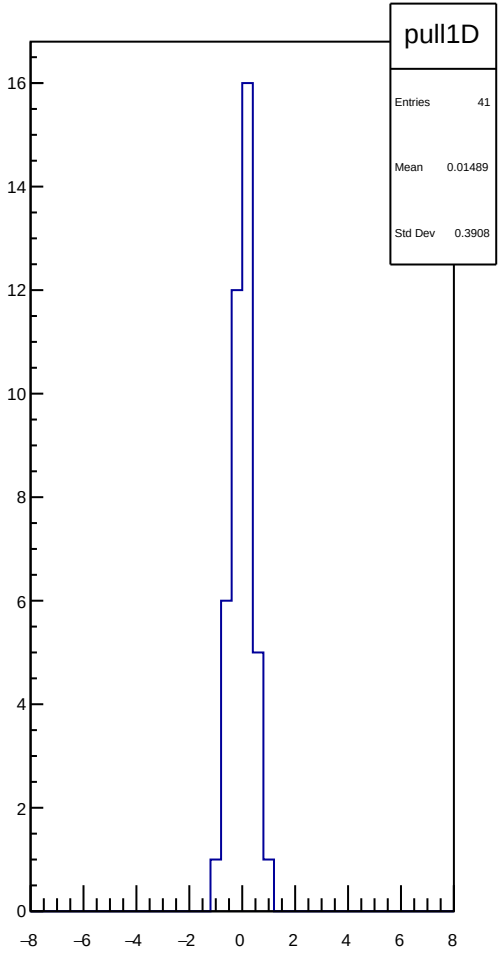

pull1D
Entries 41
Mean 0.01346
Std Dev 0.3905

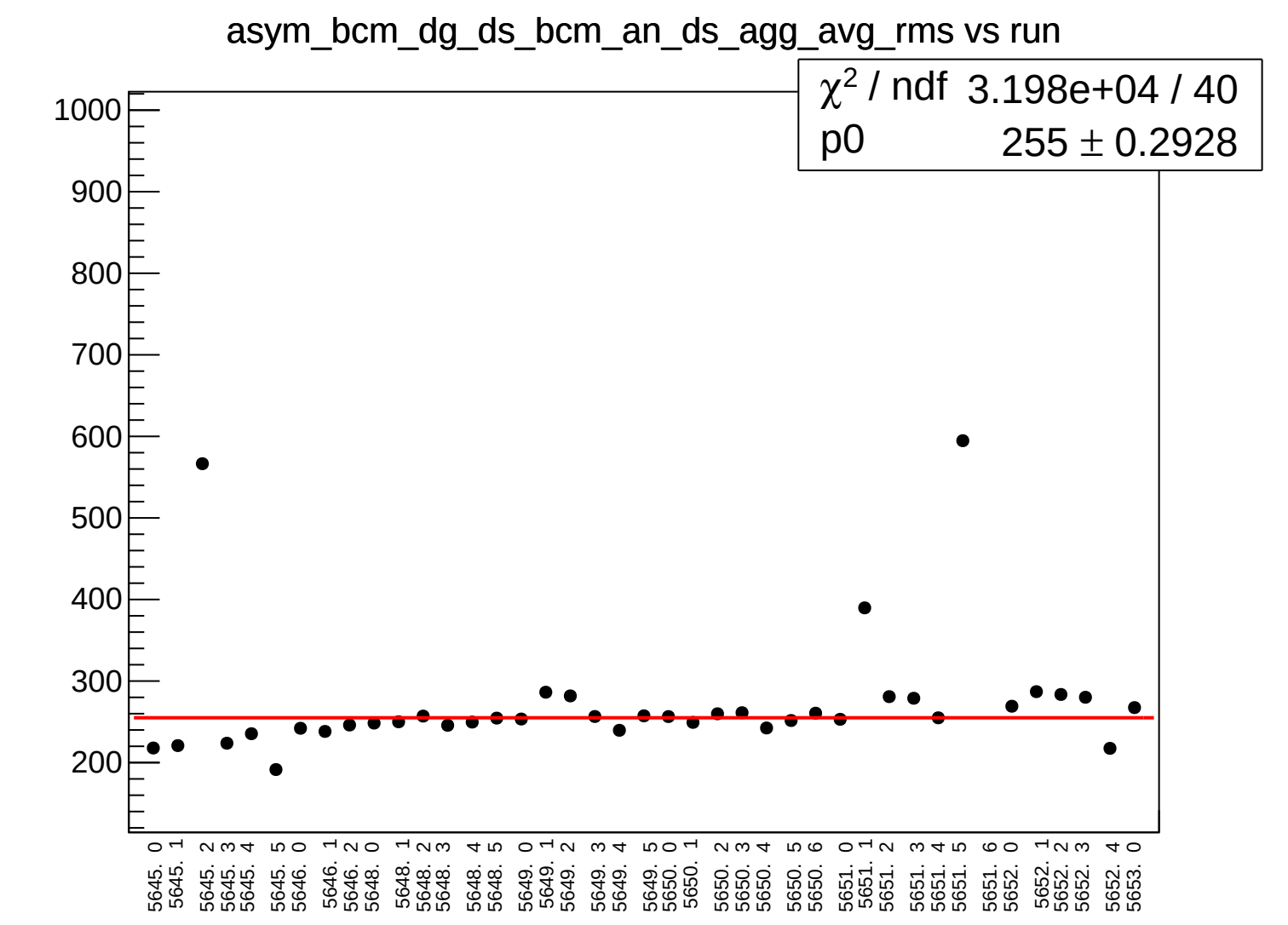

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.311e+04 / 40
p0 256.3 ± 0.2945
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

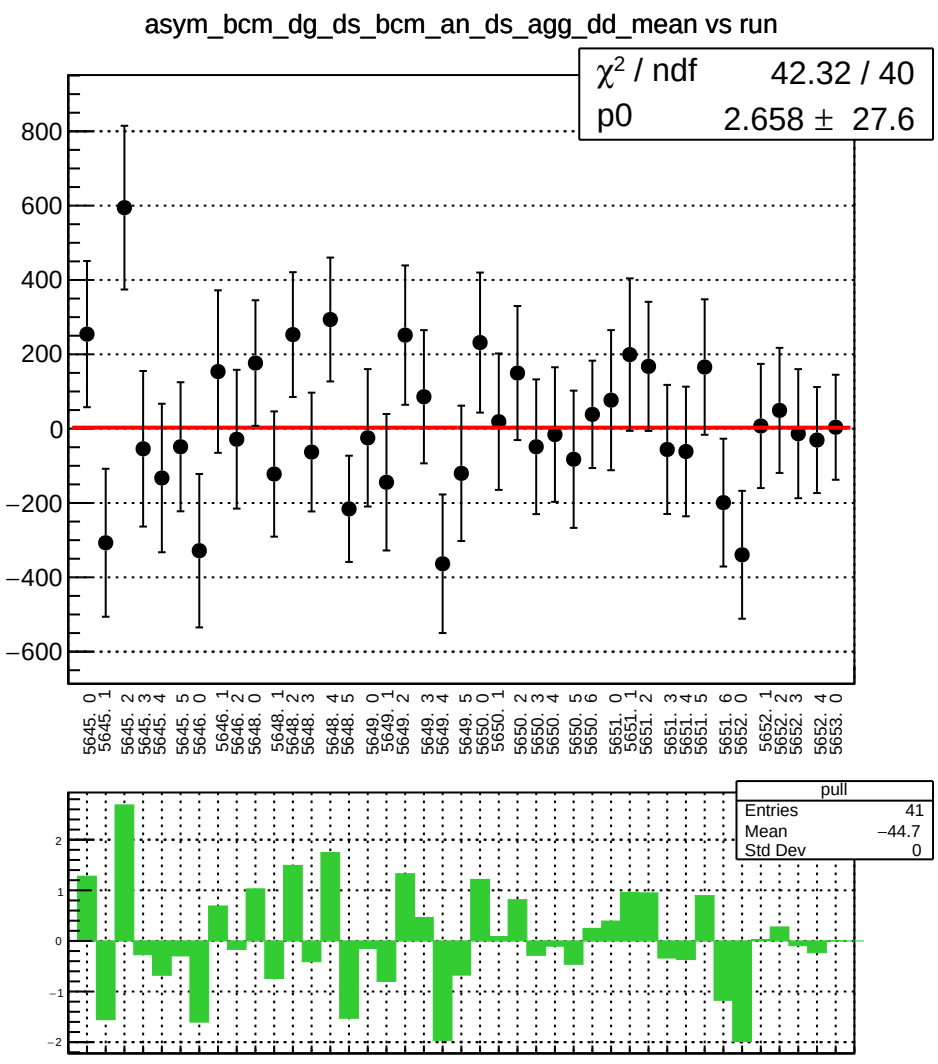

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 29.73 / 40
p0 14.16 ± 35.4
600
400
200
0
−200
−400
−600
−800
−1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 752.9
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.0005446
Std Dev 0.8515
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

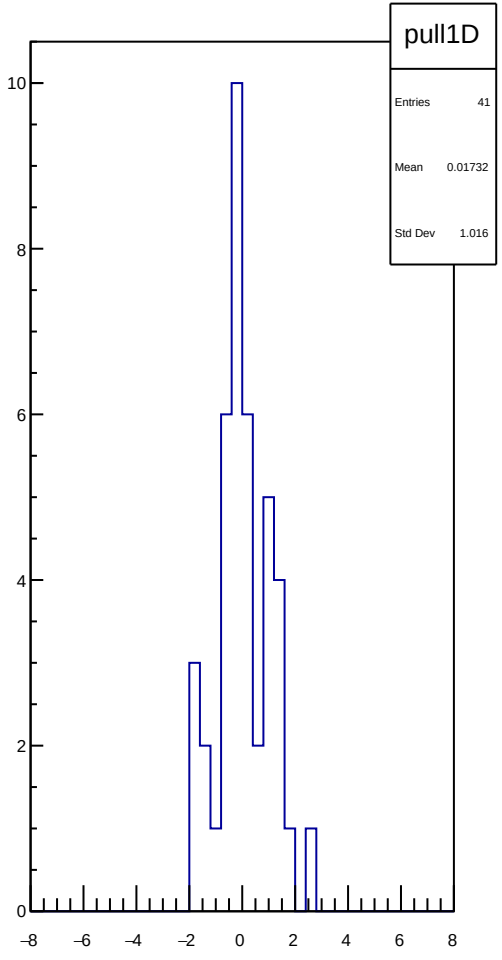

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 351 / 40
p0 22.25 ± 0.02503
24
23.5
23
22.5
22
21.5
21
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

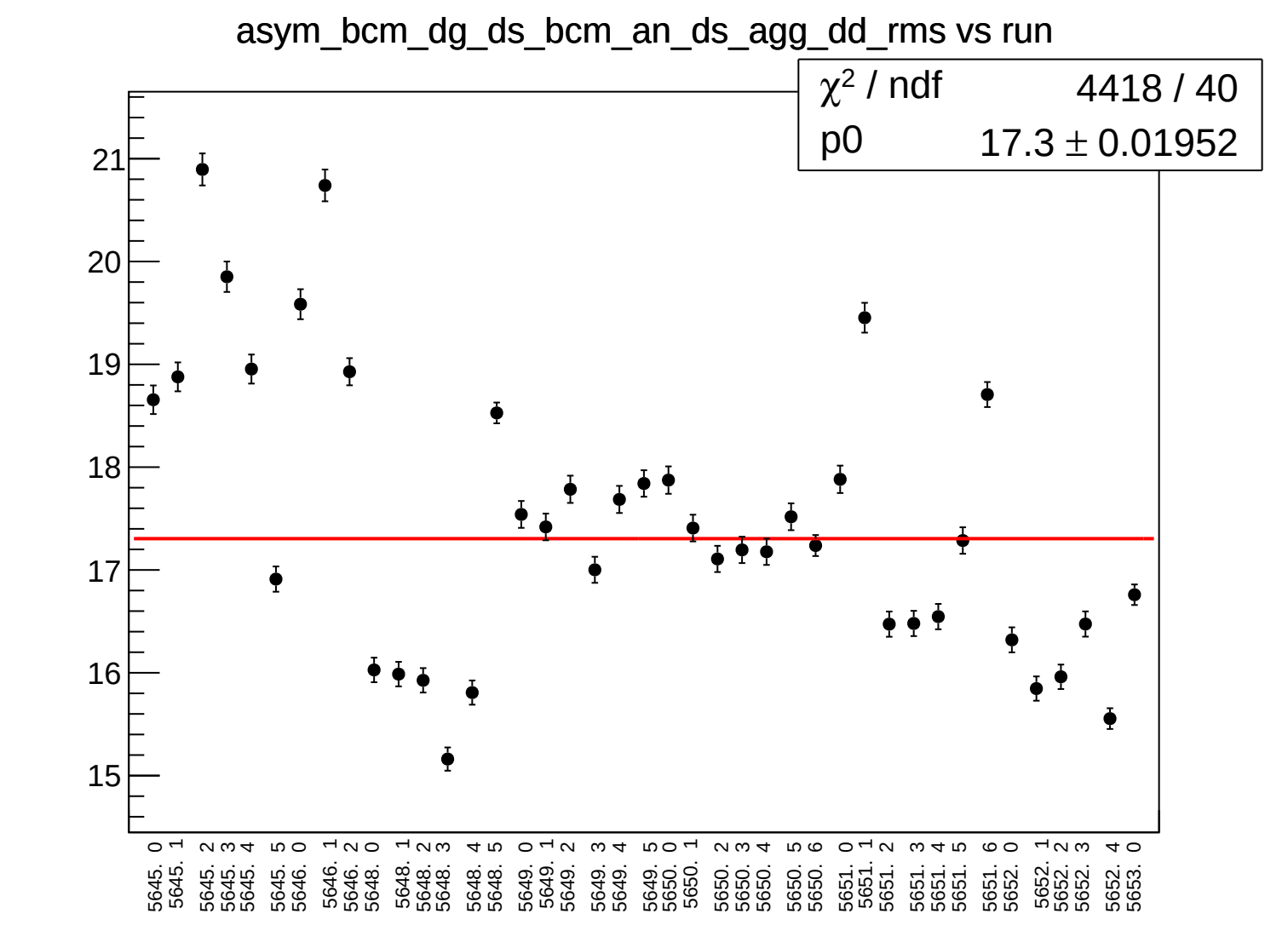

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.271 / 40
p0 19.62 ± 414.1
pull
Entries 41
Mean 51.07
Std Dev 0

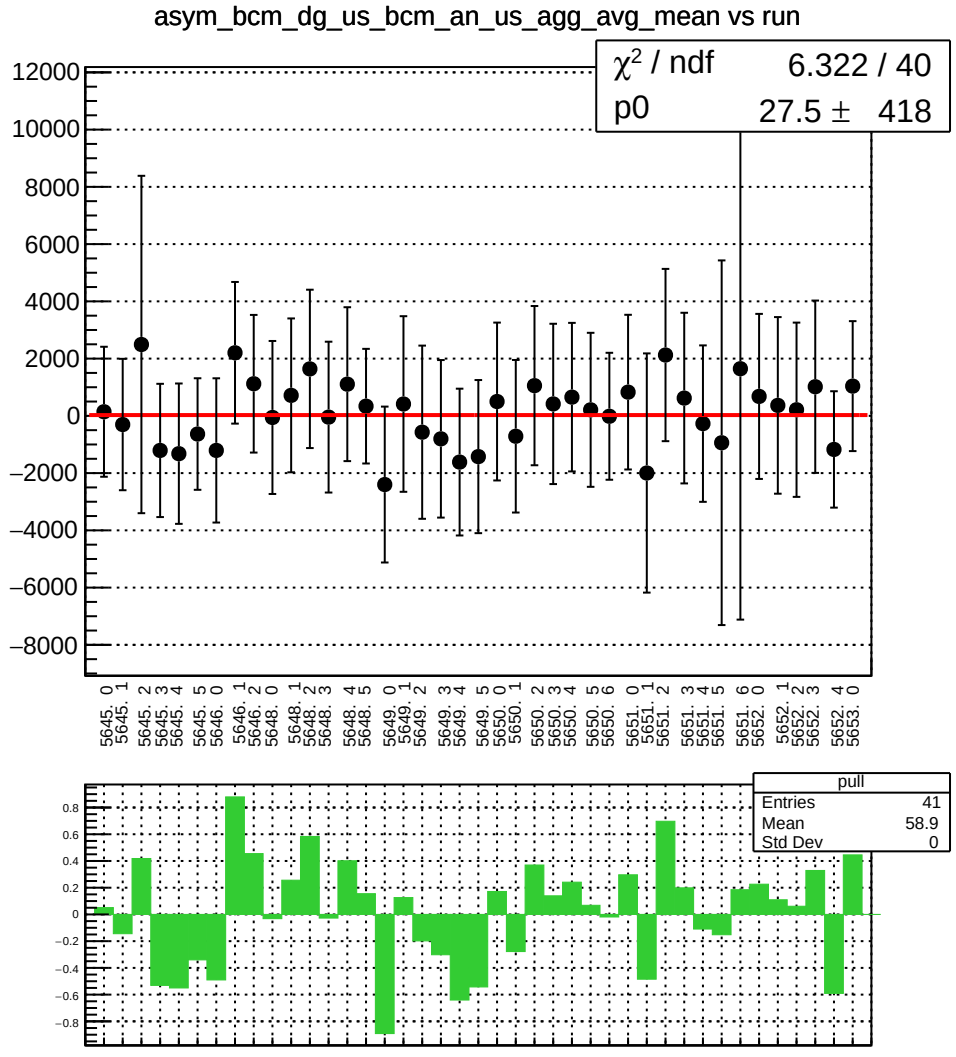

pull1D
Entries 41
Mean 0.01489
Std Dev 0.3908

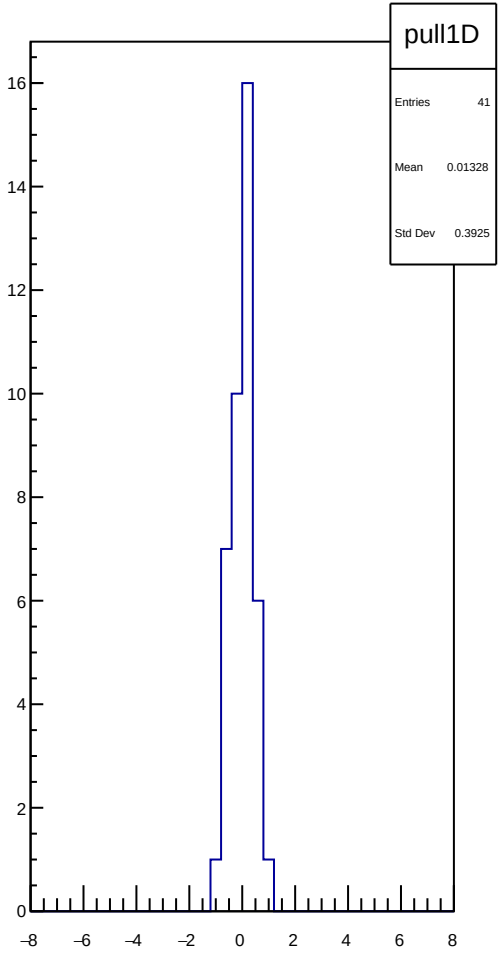

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.198e+04 / 40
p0 255 ± 0.2928
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

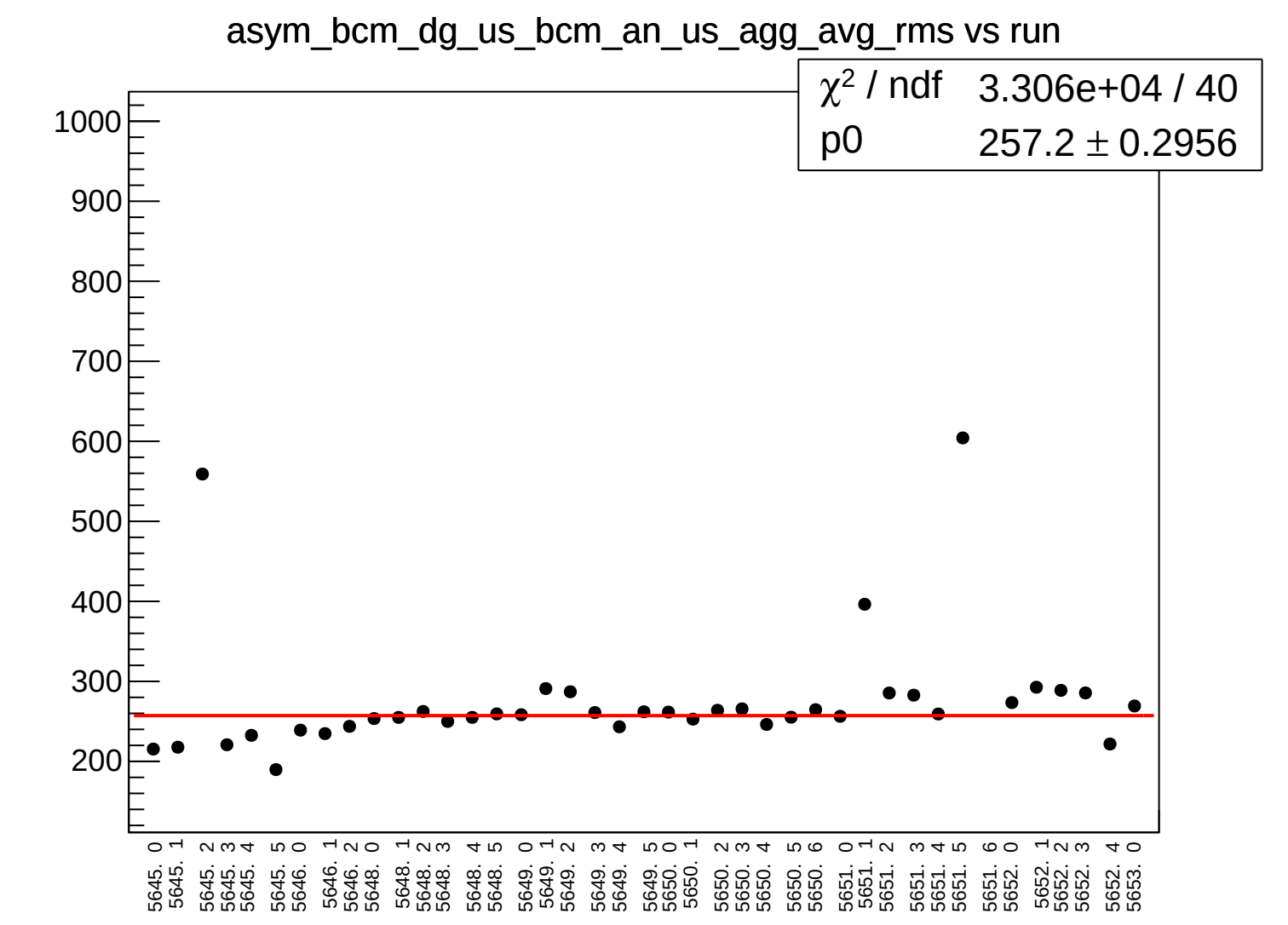

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 42.32 / 40
p0 2.658 ± 27.6
pull
Entries 41
Mean −44.7
Std Dev 0

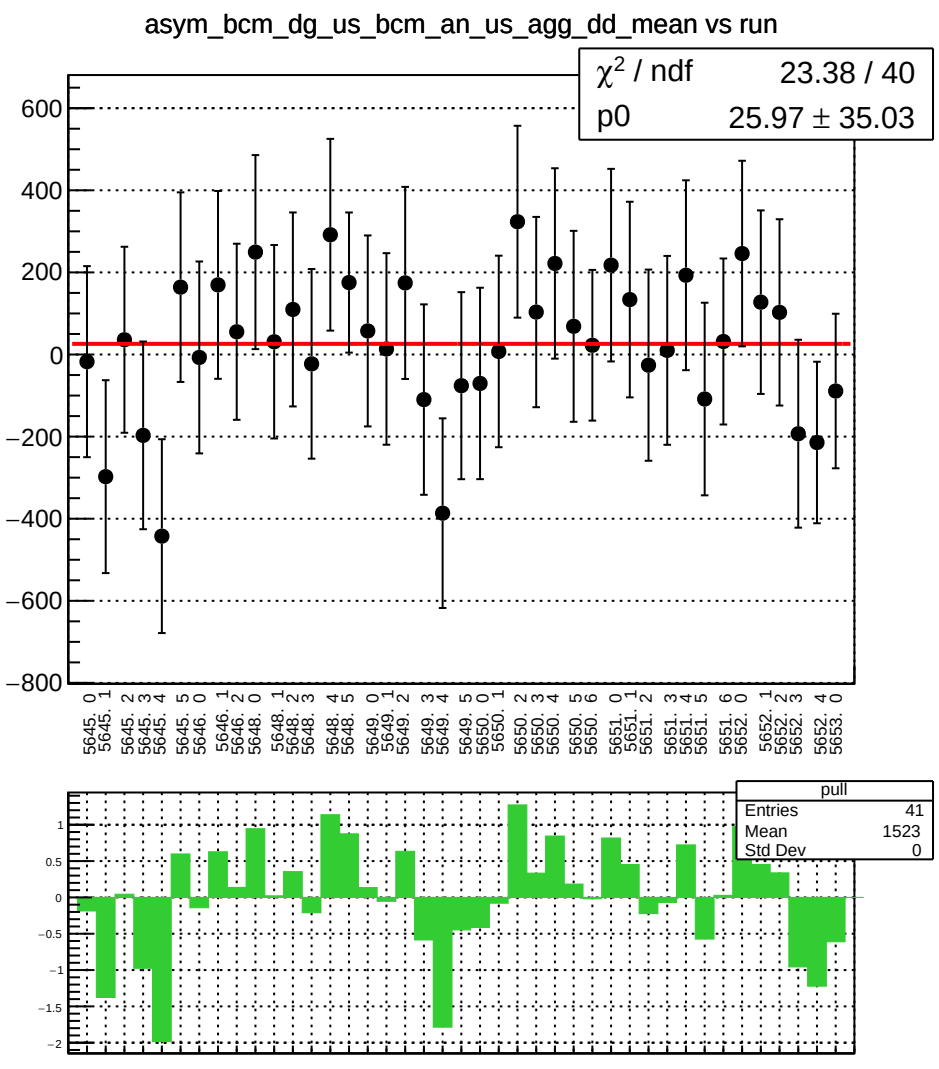

pull1D
Entries 41
Mean 0.01732
Std Dev 1.016

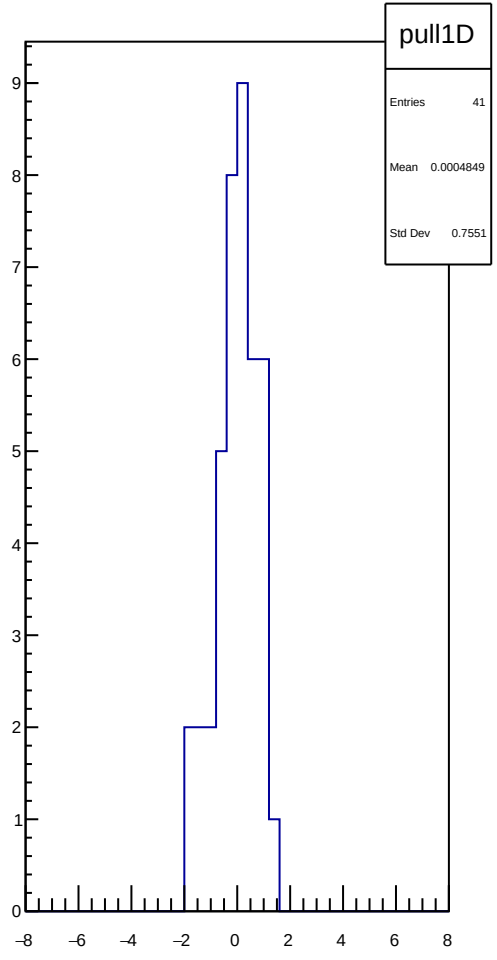

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4418 / 40
p0 17.3 ± 0.01952
21
20
19
18
17
16
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

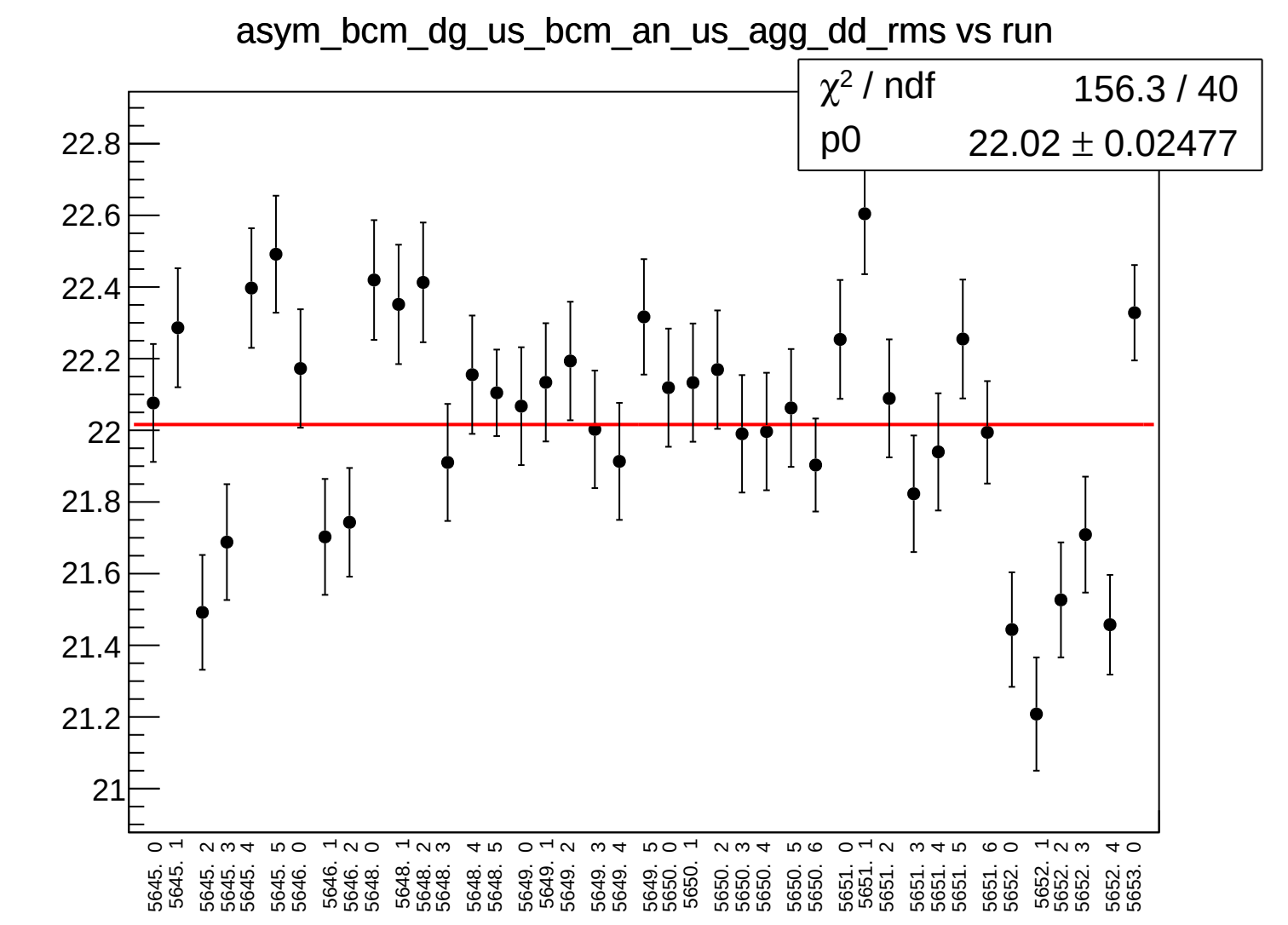

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.322 / 40
p0 27.5 ± 418
pull
Entries 41
Mean 58.9
Std Dev 0

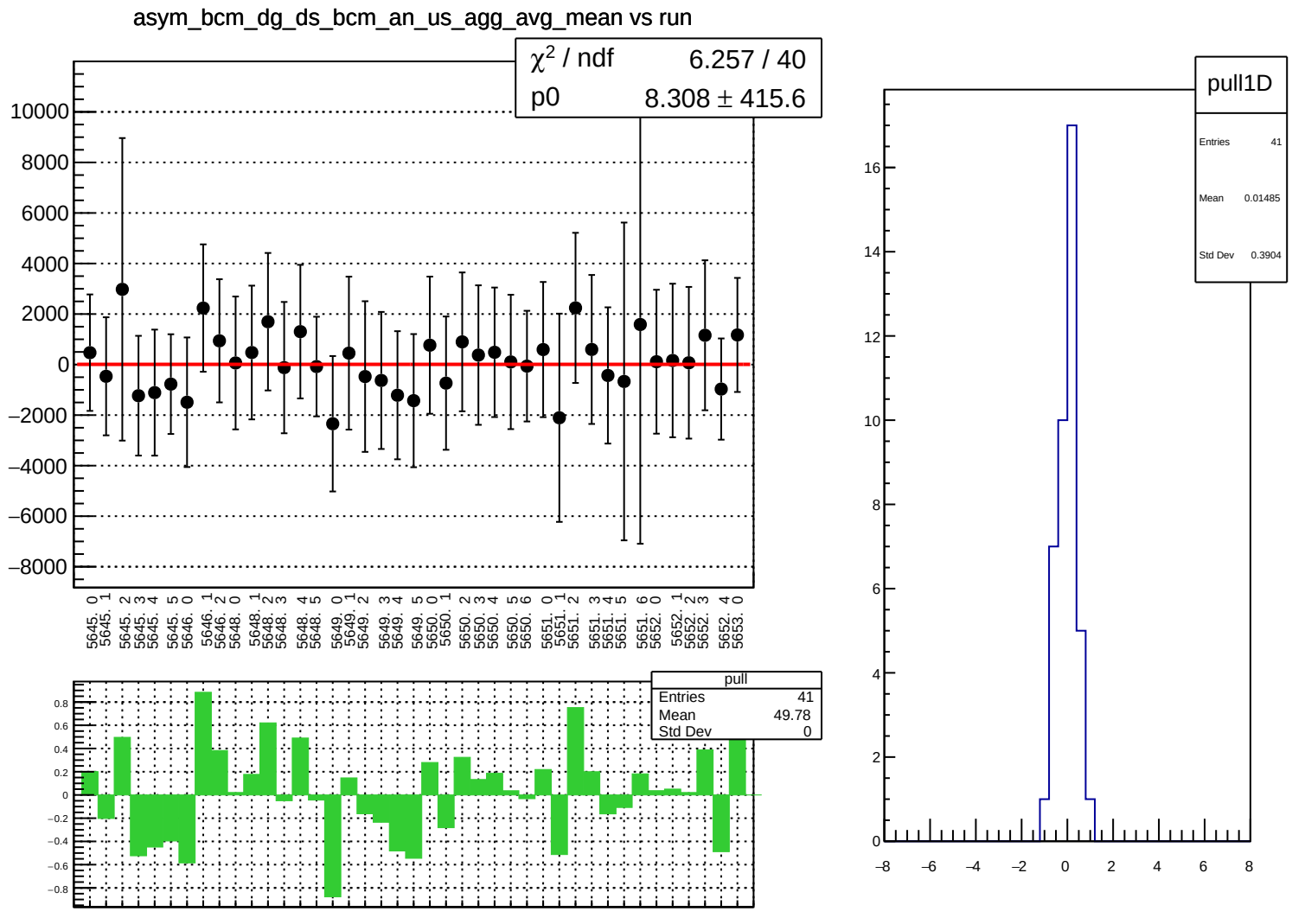

pull1D
Entries 41
Mean 0.01328
Std Dev 0.3925

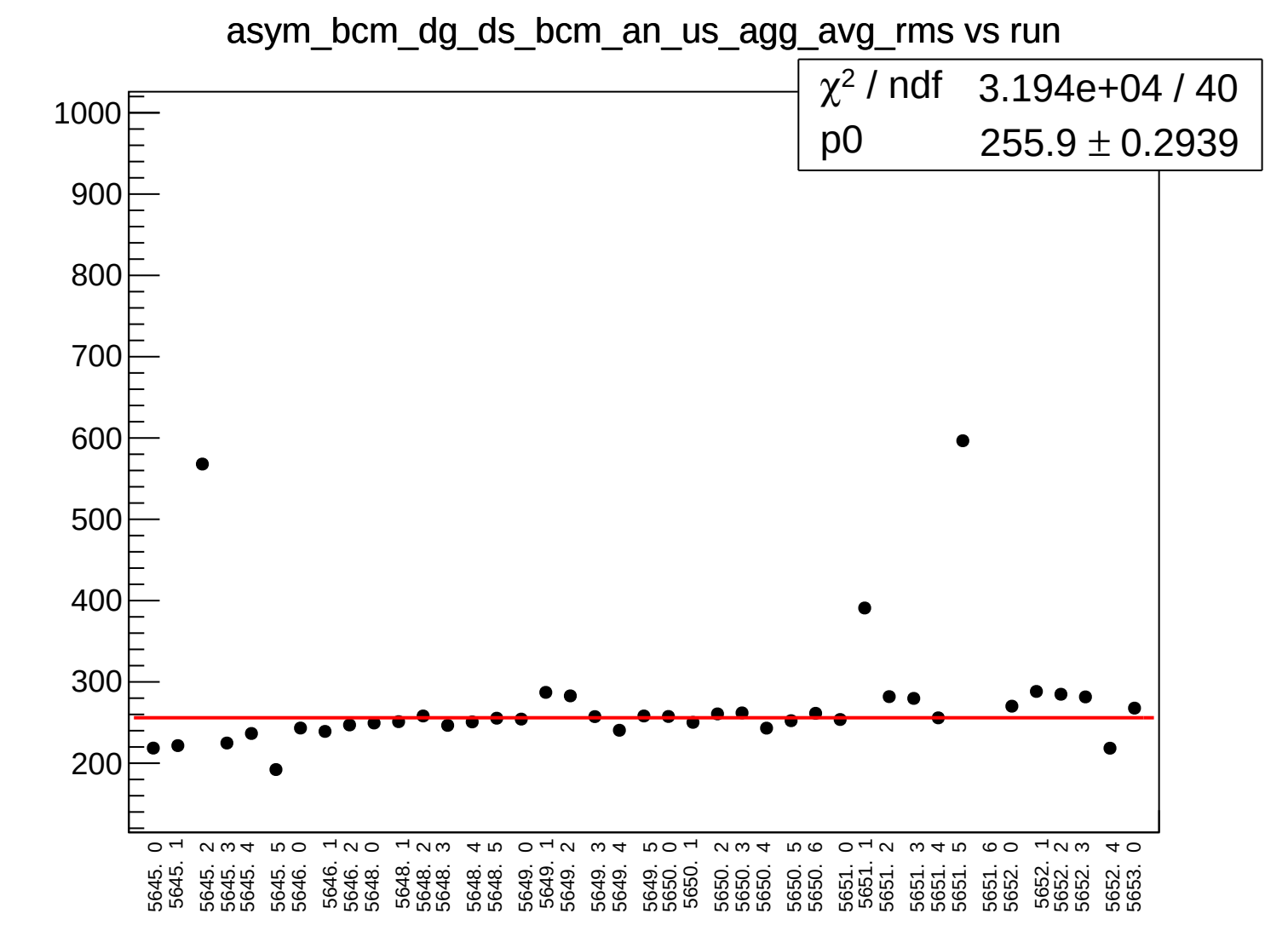

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.306e+04 / 40
p0 257.2 ± 0.2956
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

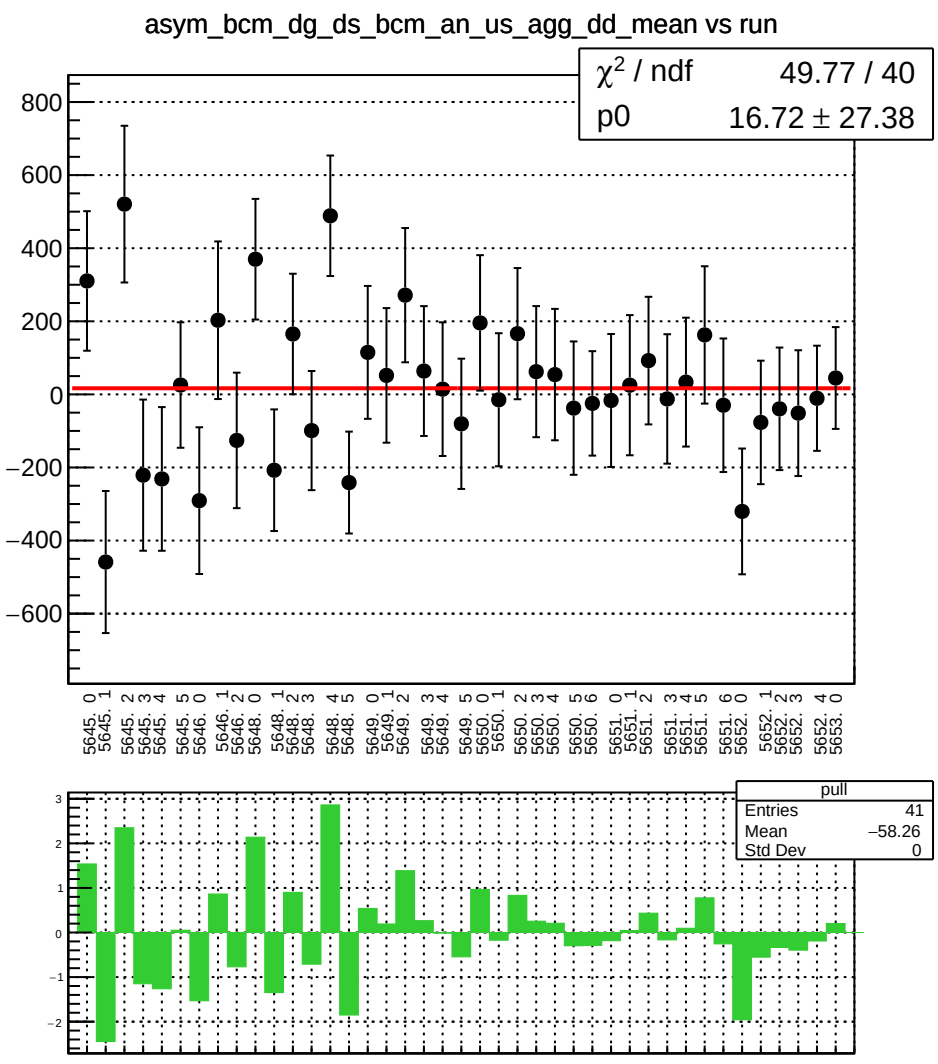

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 23.38 / 40
p0 25.97 ± 35.03
pull
Entries 41
Mean 1523
Std Dev 0

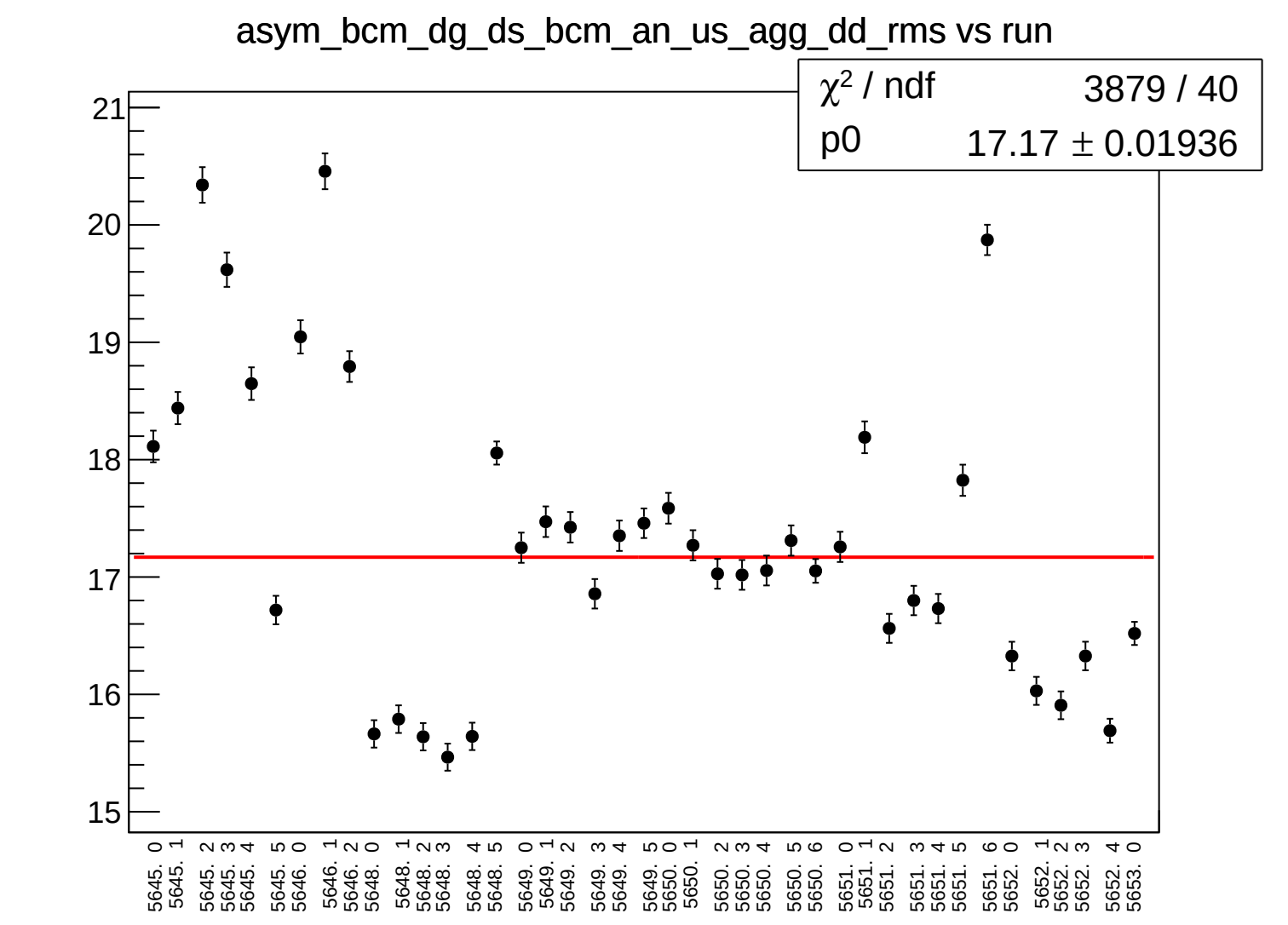

pull1D
Entries 41
Mean 0.0004849
Std Dev 0.7551

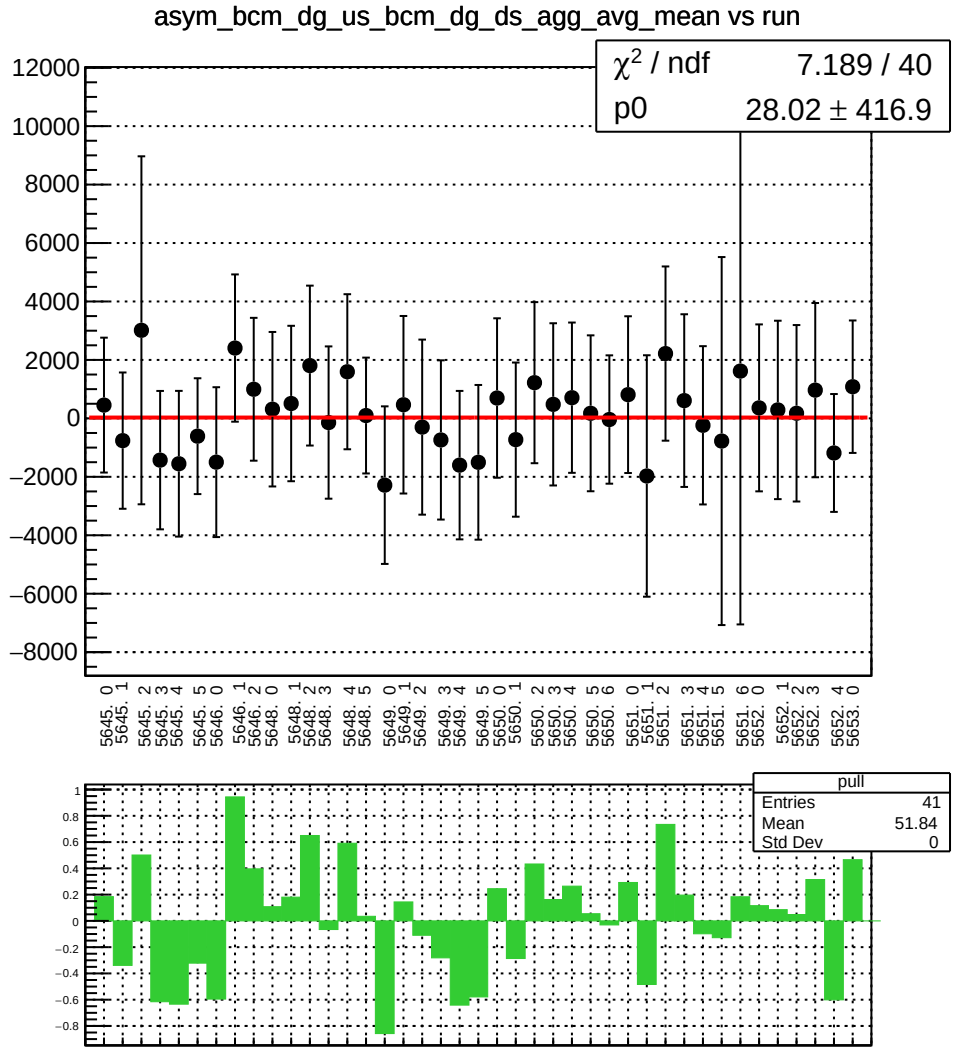

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 156.3 / 40
p0 22.02 ± 0.02477
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

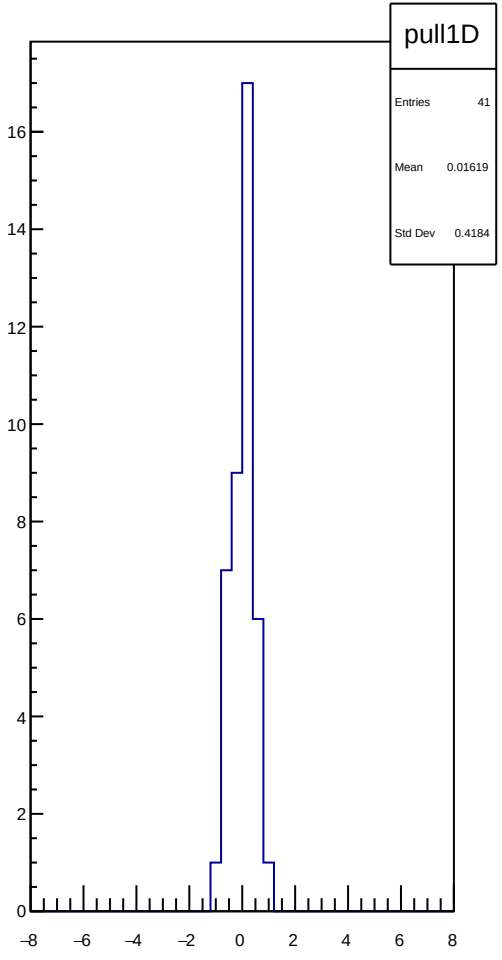

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 6.257 / 40
p0 8.308 ± 415.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 49.78
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01485
Std Dev 0.3904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

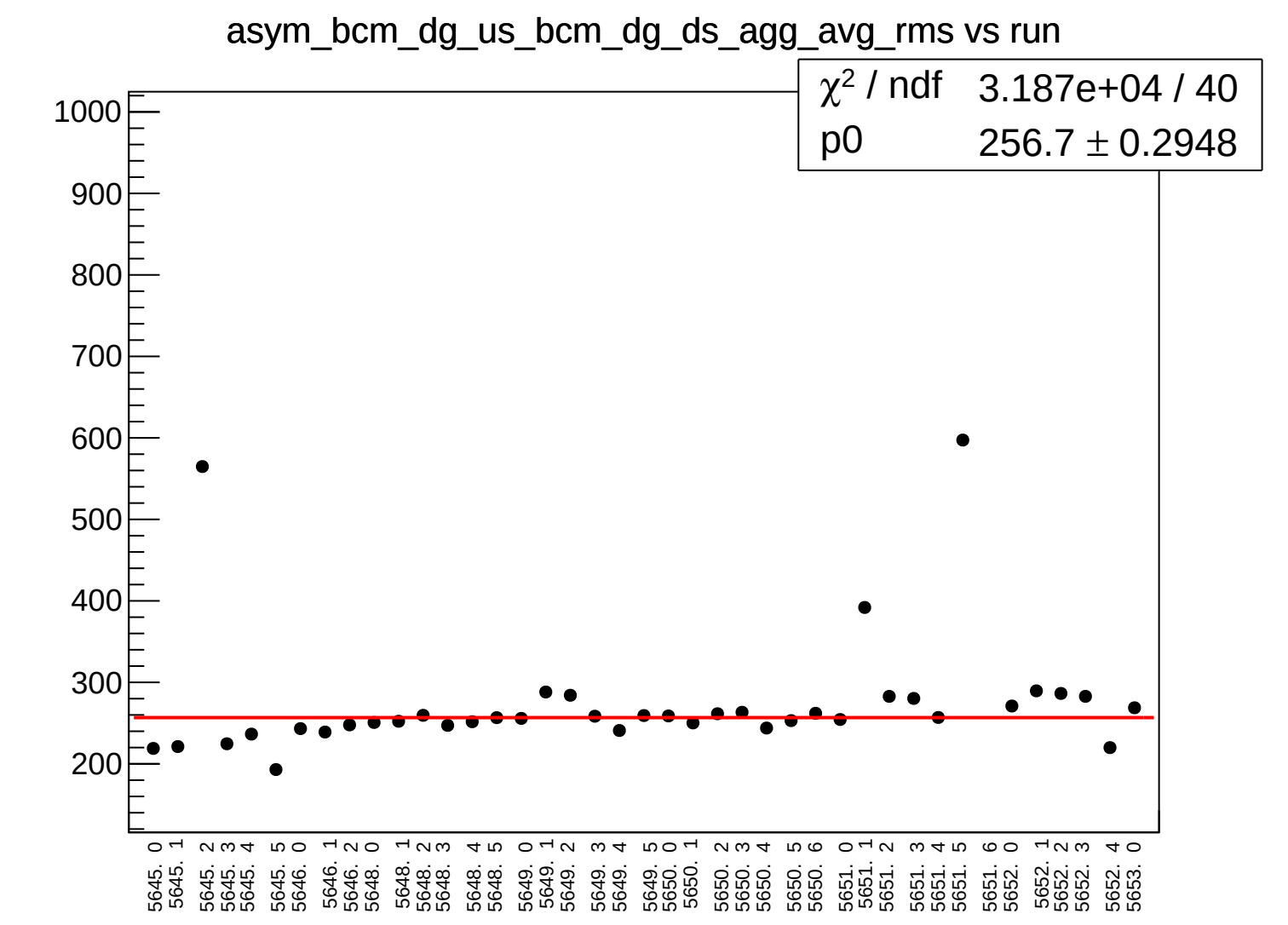

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.194e+04 / 40
p0 255.9 ± 0.2939
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

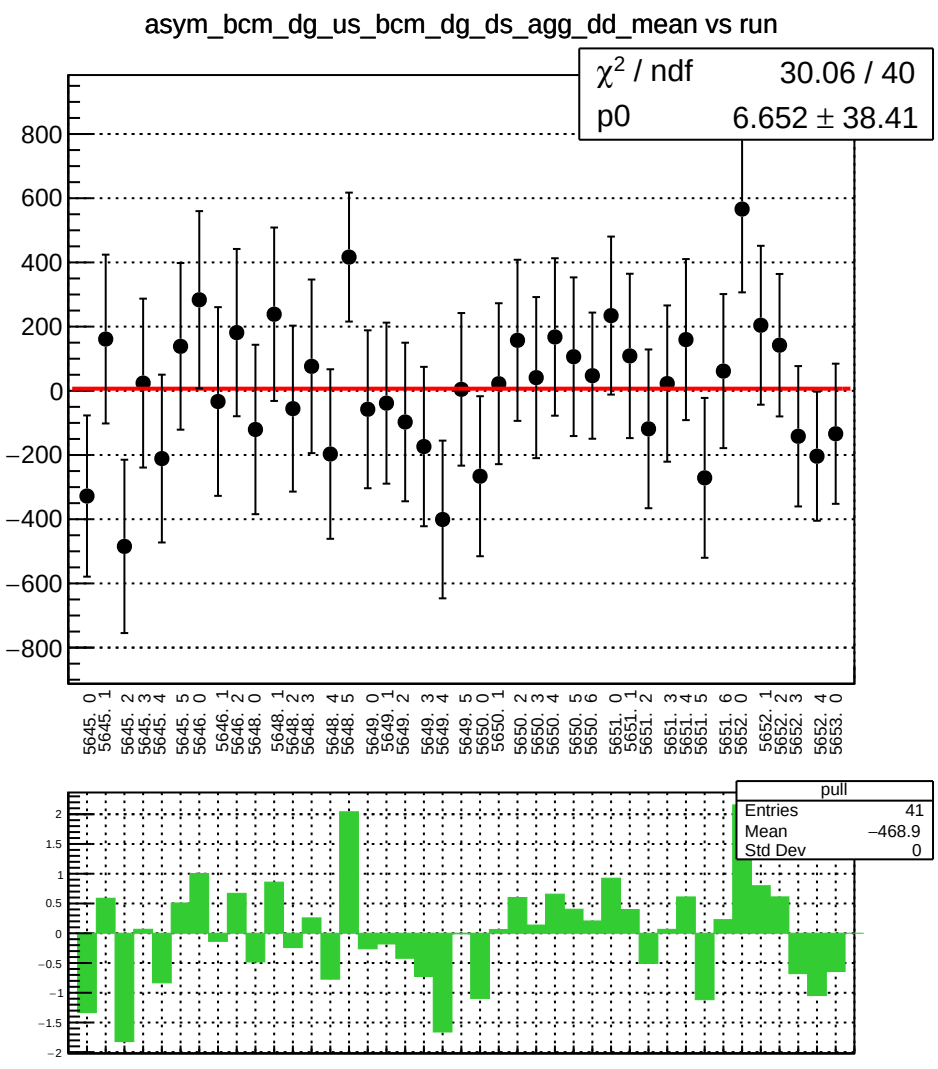

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 49.77 / 40
p0 16.72 ± 27.38
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −58.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01172
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

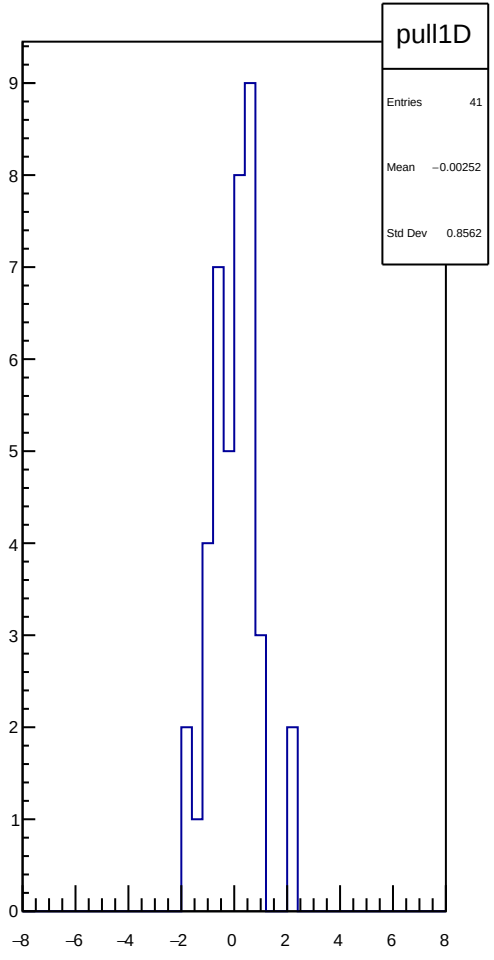

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3879 / 40
p0 17.17 ± 0.01936
21
20
19
18
17
16
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

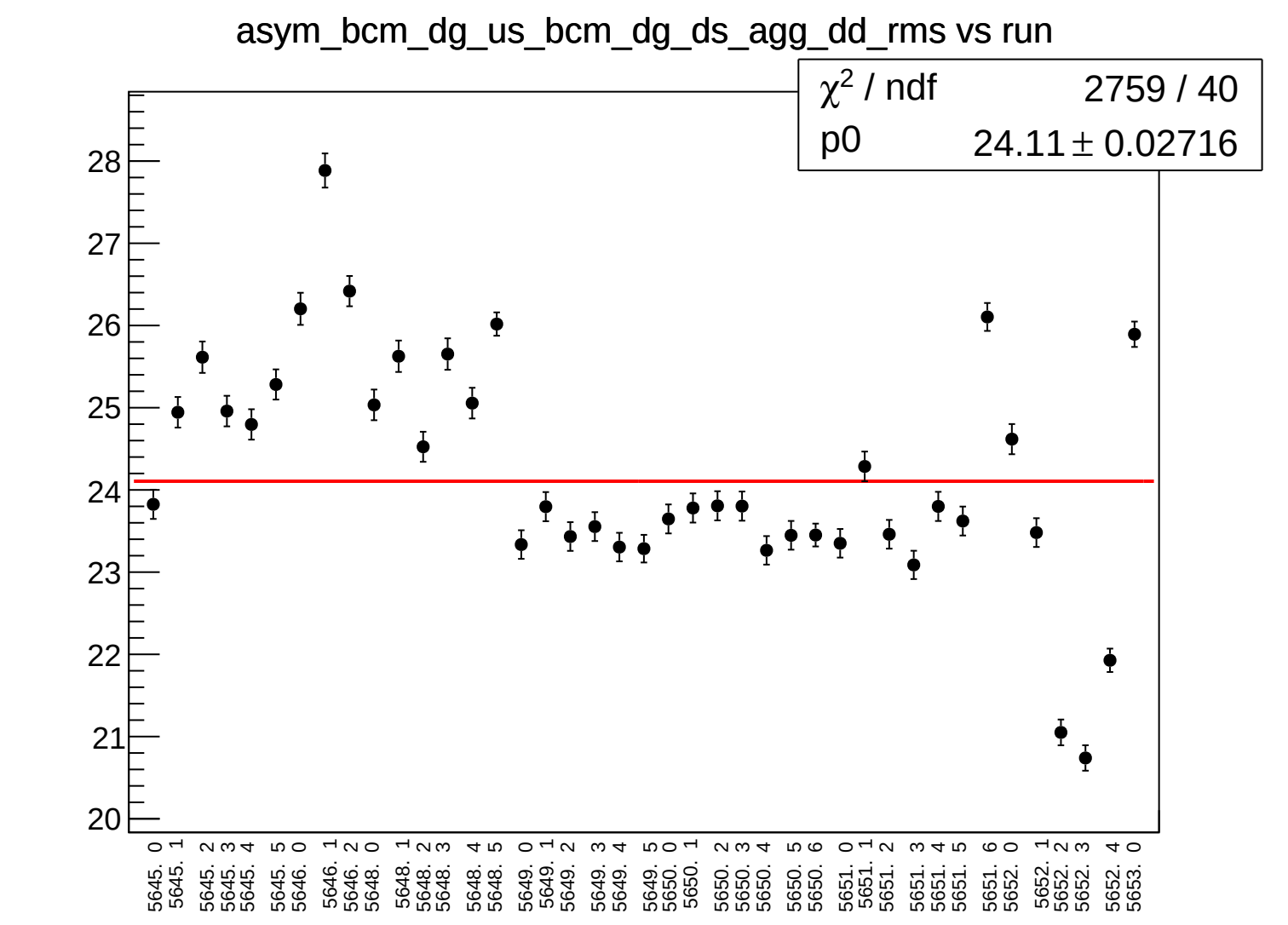

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.189 / 40
p0 28.02 ± 416.9
pull
Entries 41
Mean 51.84
Std Dev 0

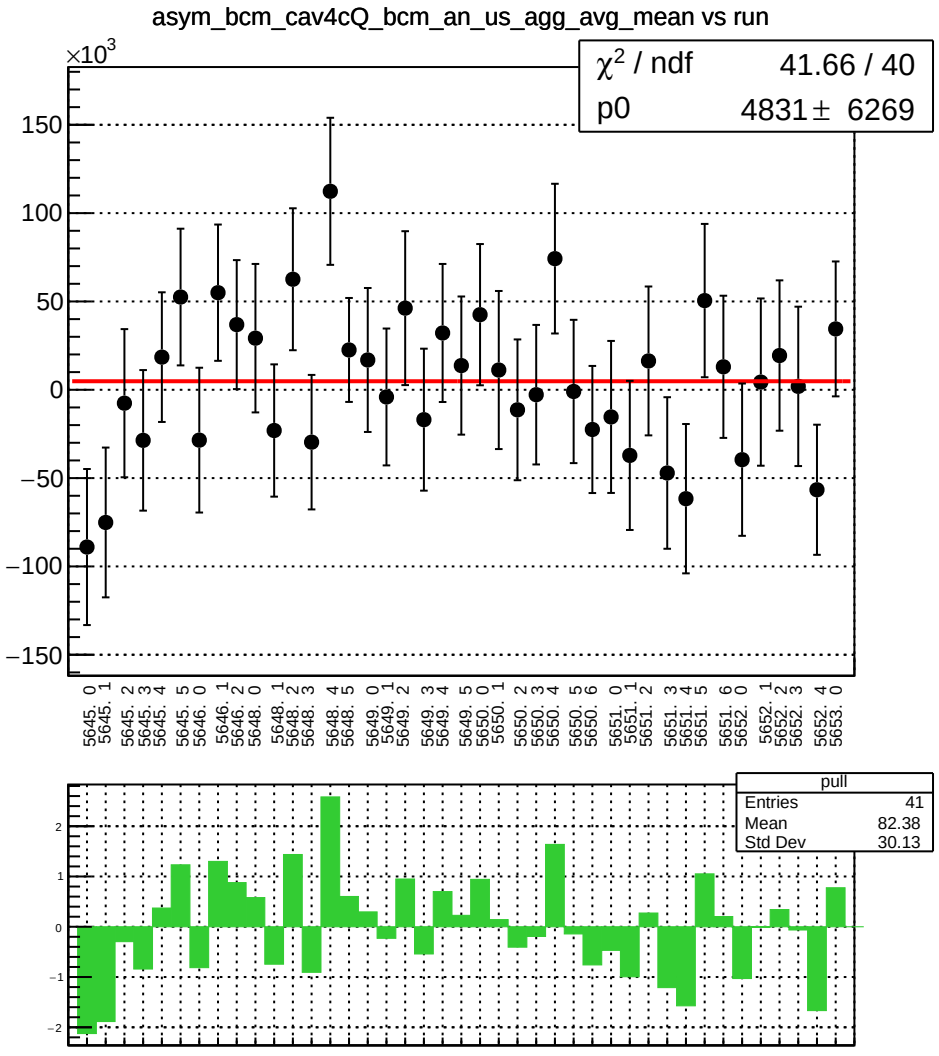

pull1D
Entries 41
Mean 0.01619
Std Dev 0.4184

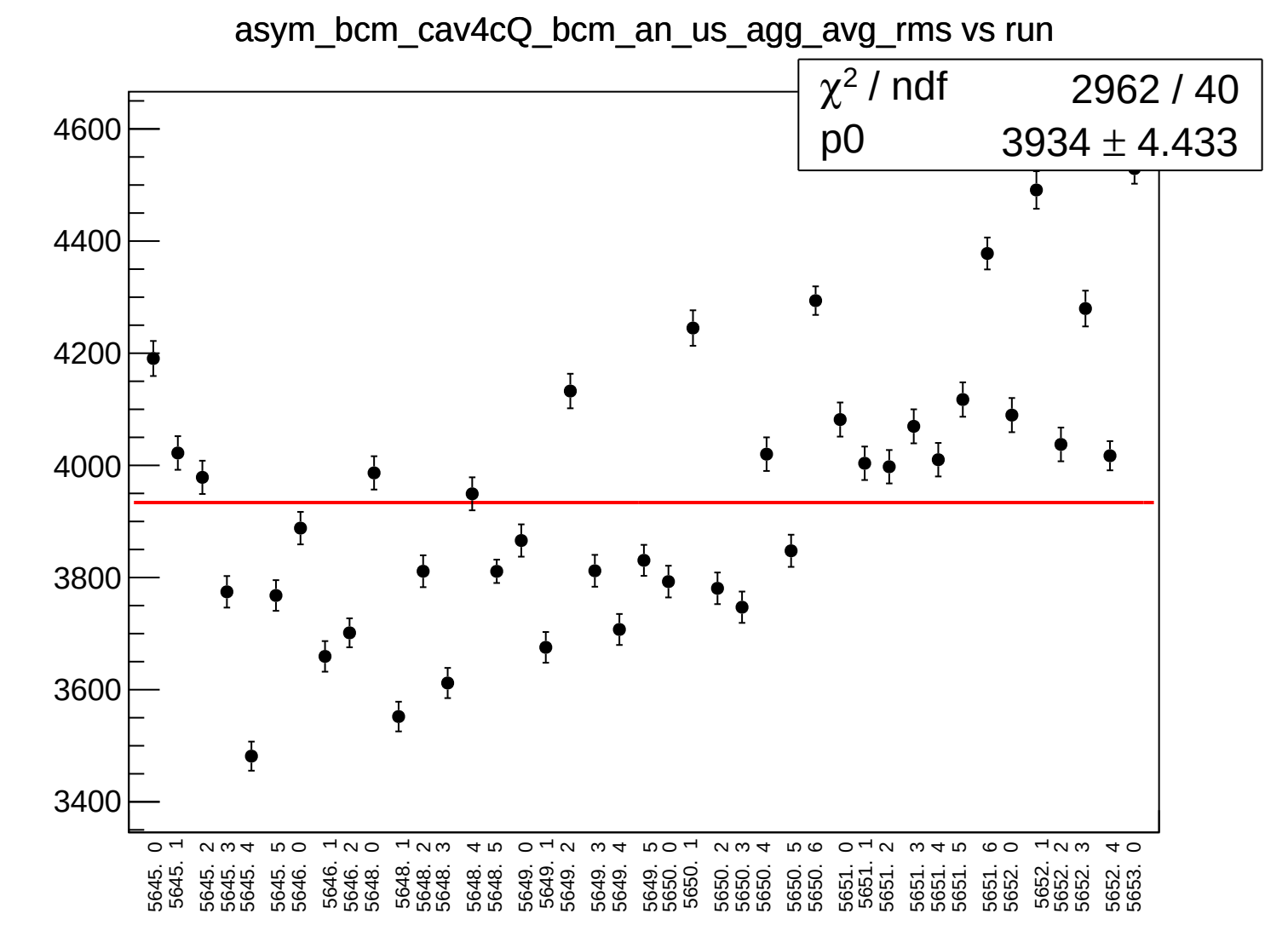

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.187e+04 / 40
p0 256.7 ± 0.2948
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

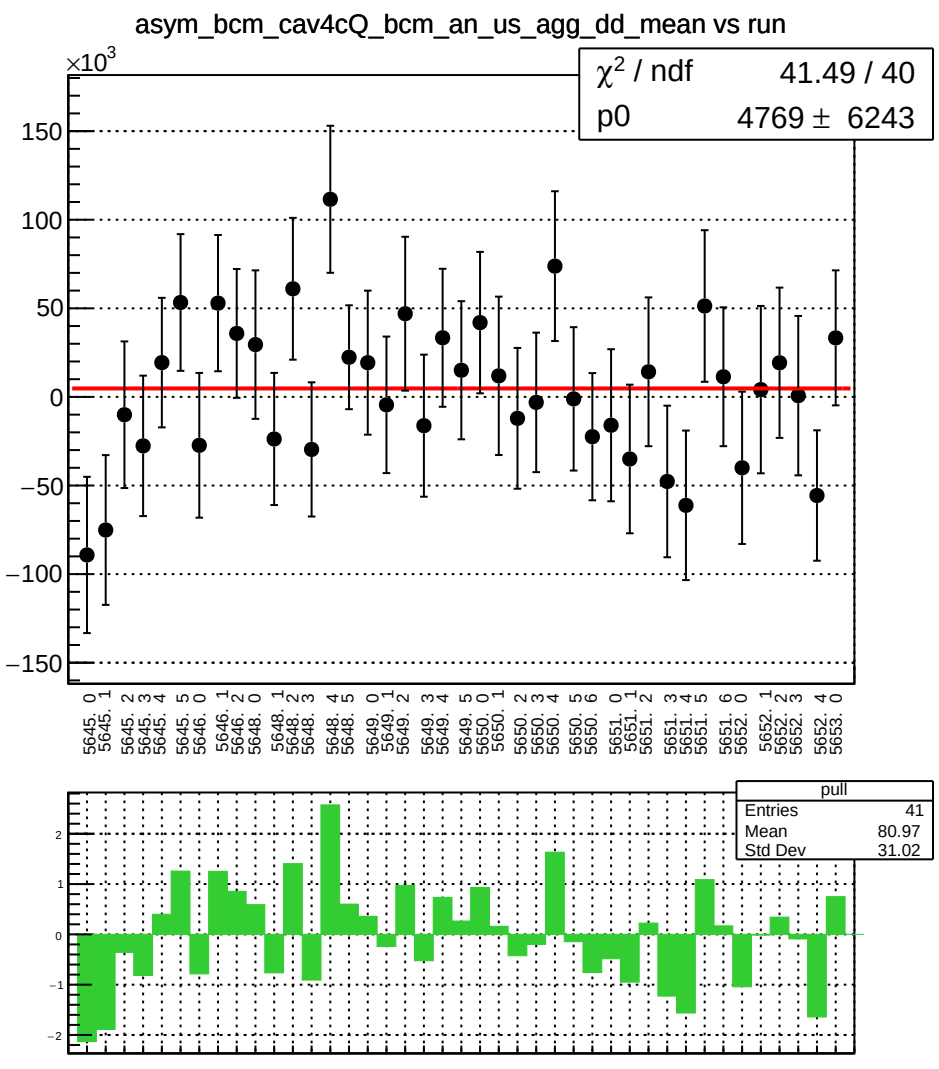

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 30.06 / 40
p0 6.652 ± 38.41
pull
Entries 41
Mean −468.9
Std Dev 0

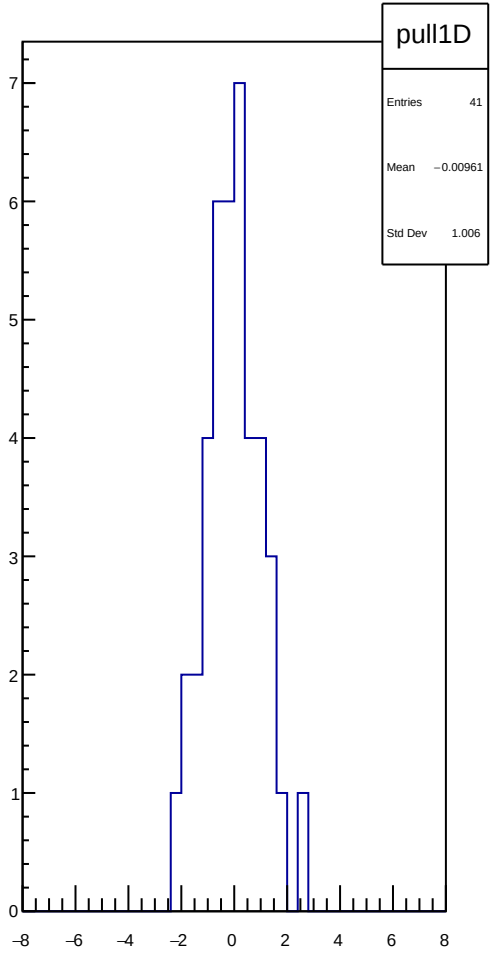

pull1D
Entries 41
Mean −0.00252
Std Dev 0.8562

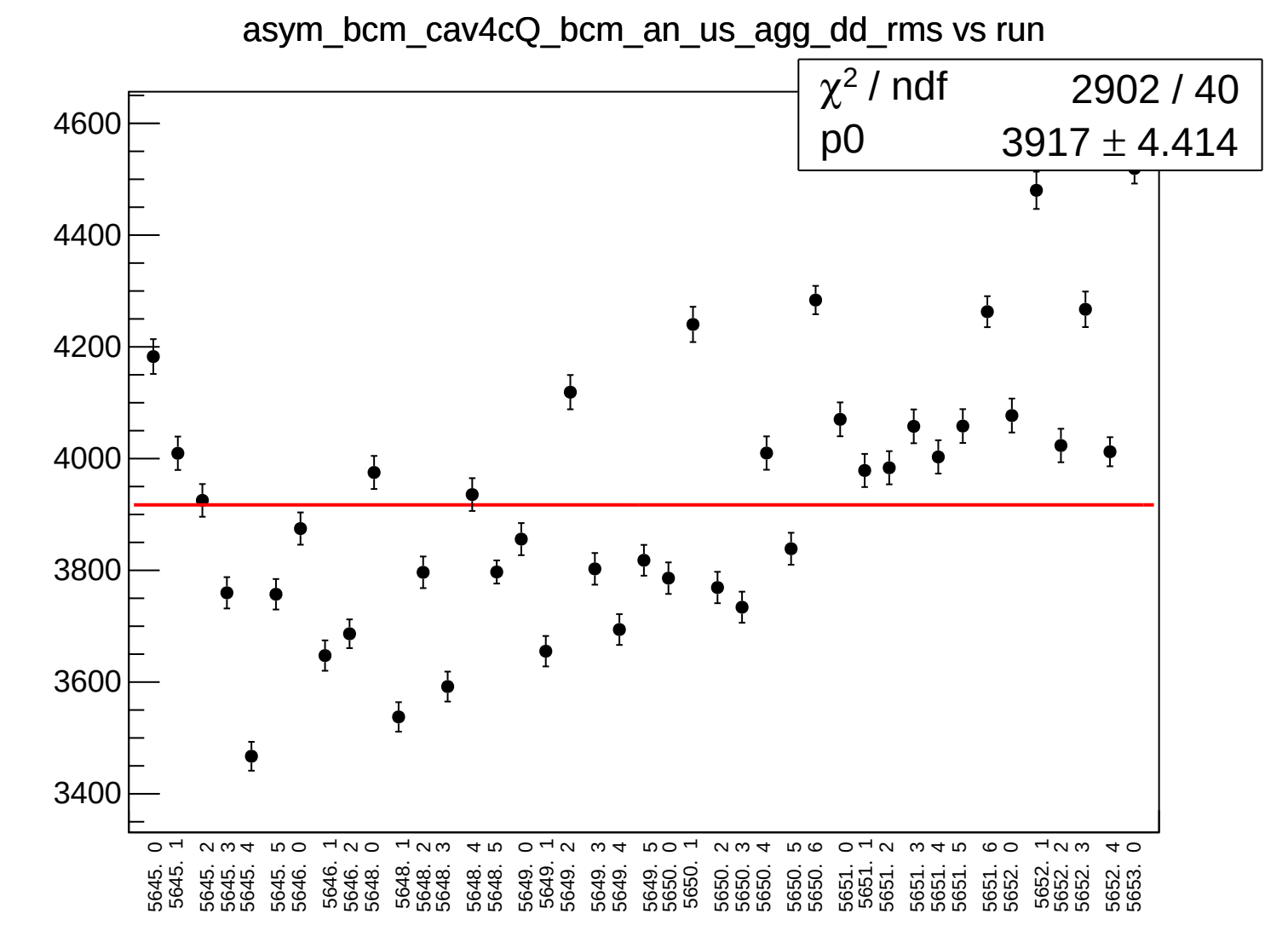

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2759 / 40
p0 24.11 ± 0.02716
28
27
26
25
24
23
22
21
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

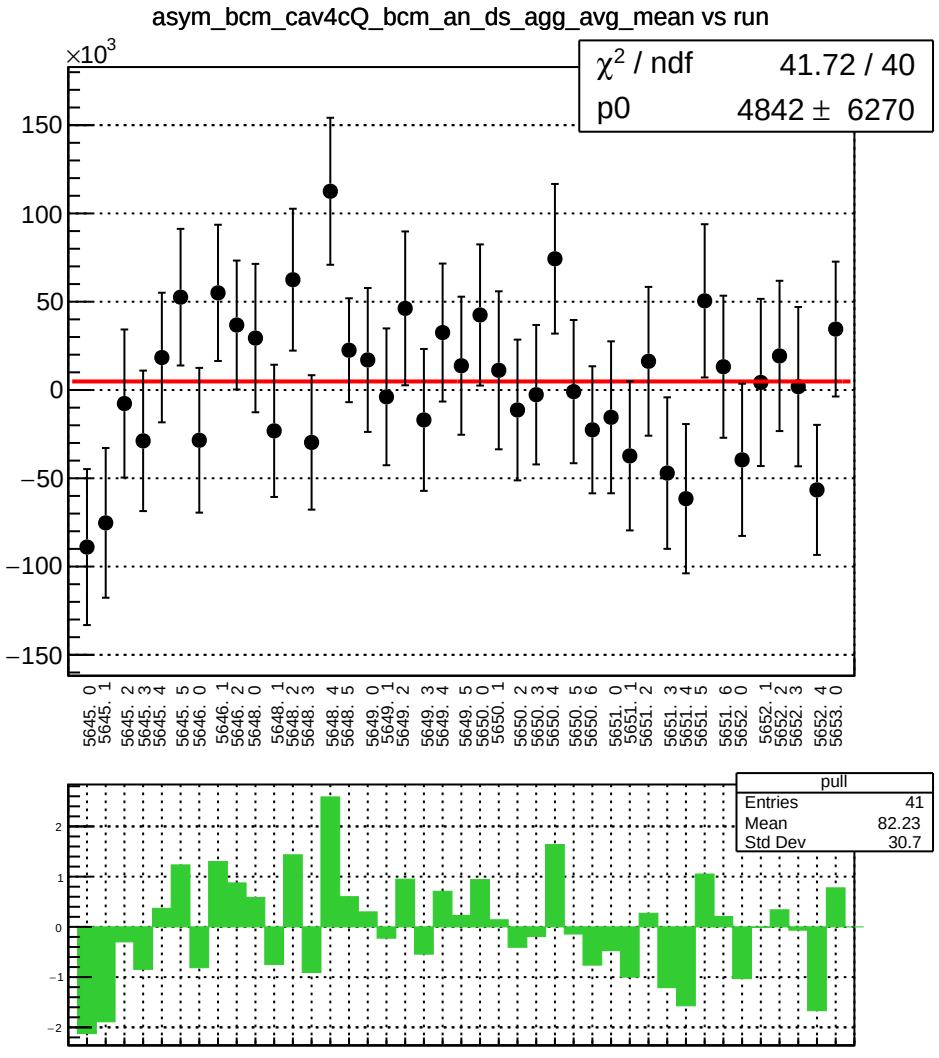

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 41.66 / 40
p0 4831 ± 6269
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 82.38
Std Dev 30.13
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00922
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

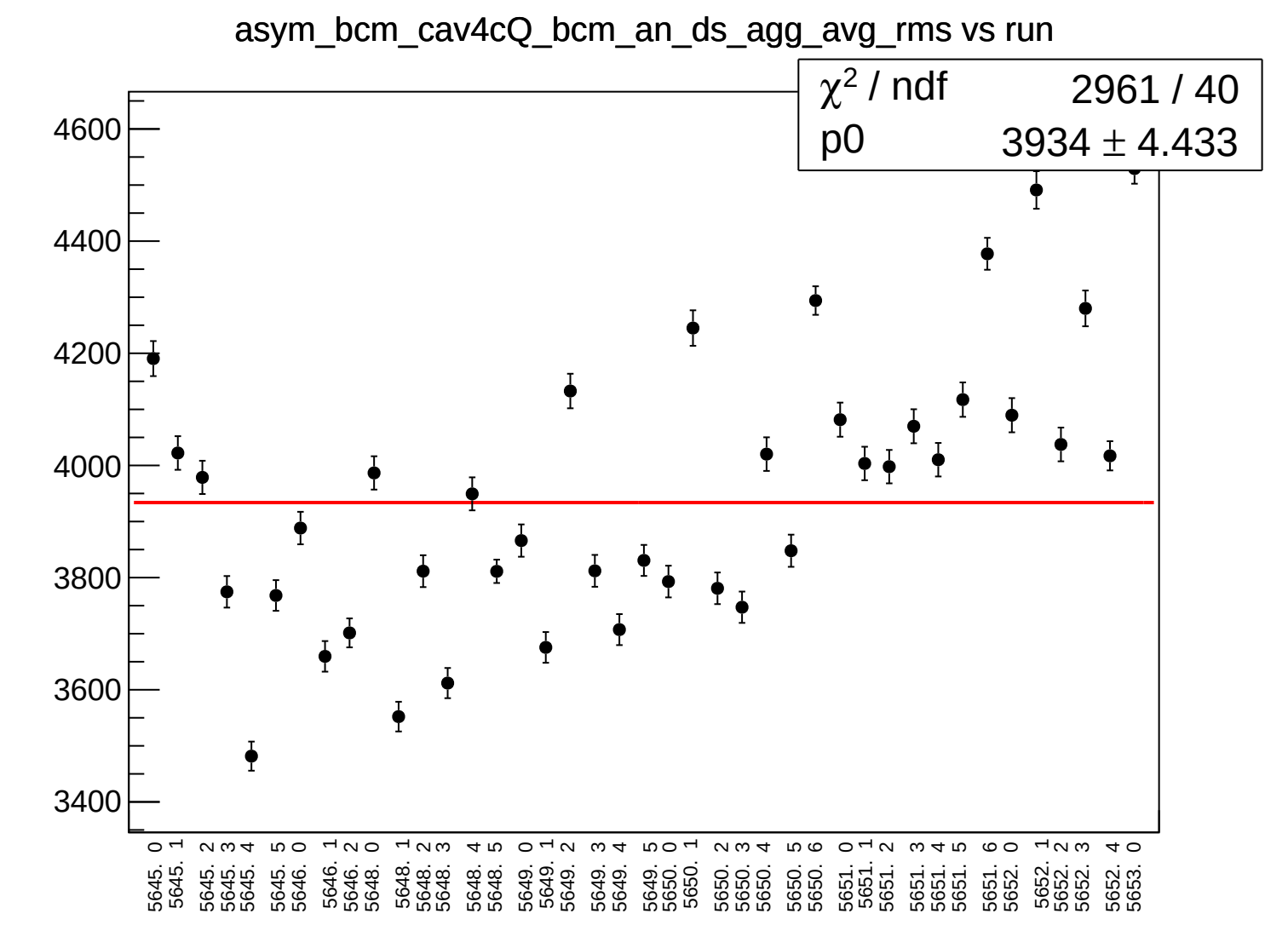

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2962 / 40
p0 3934 ± 4.433
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

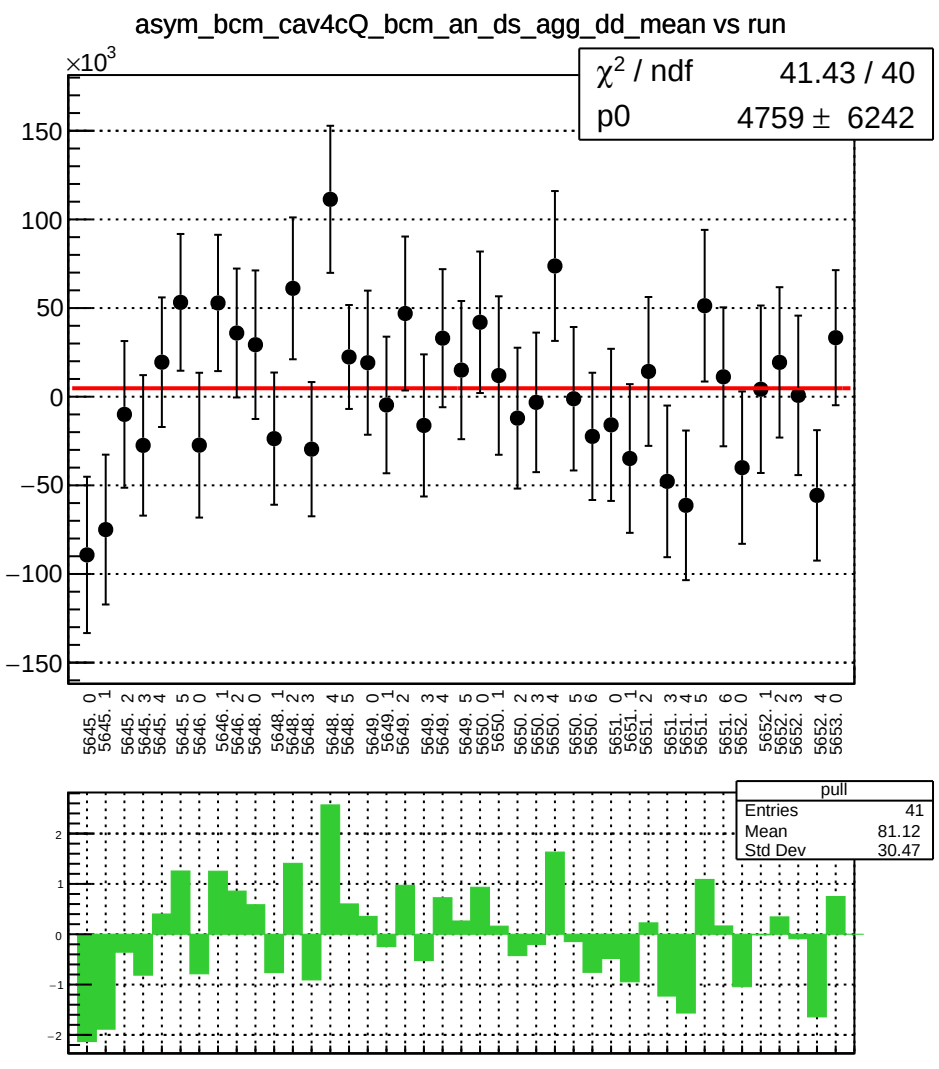

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 41.49 / 40
p0 4769 ± 6243
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 80.97
Std Dev 31.02
2
1
0
−1
−2

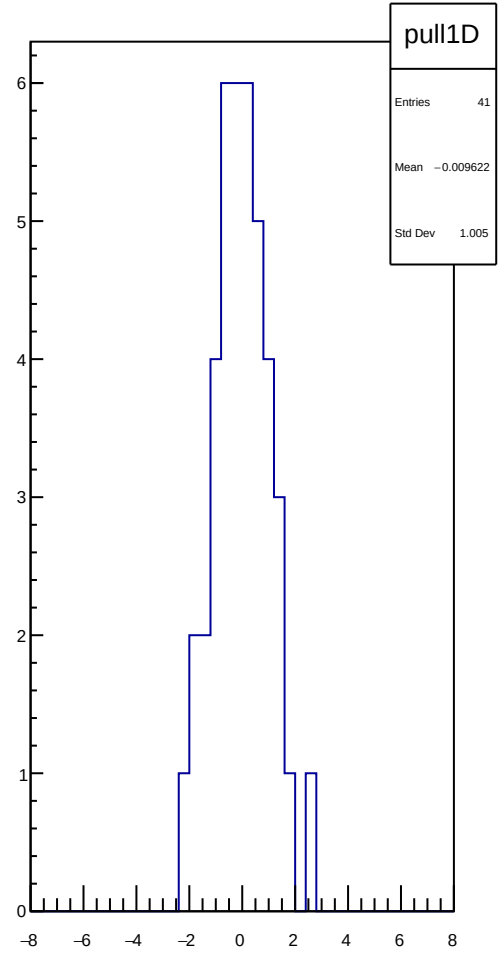

pull1D
Entries 41
Mean −0.00961
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

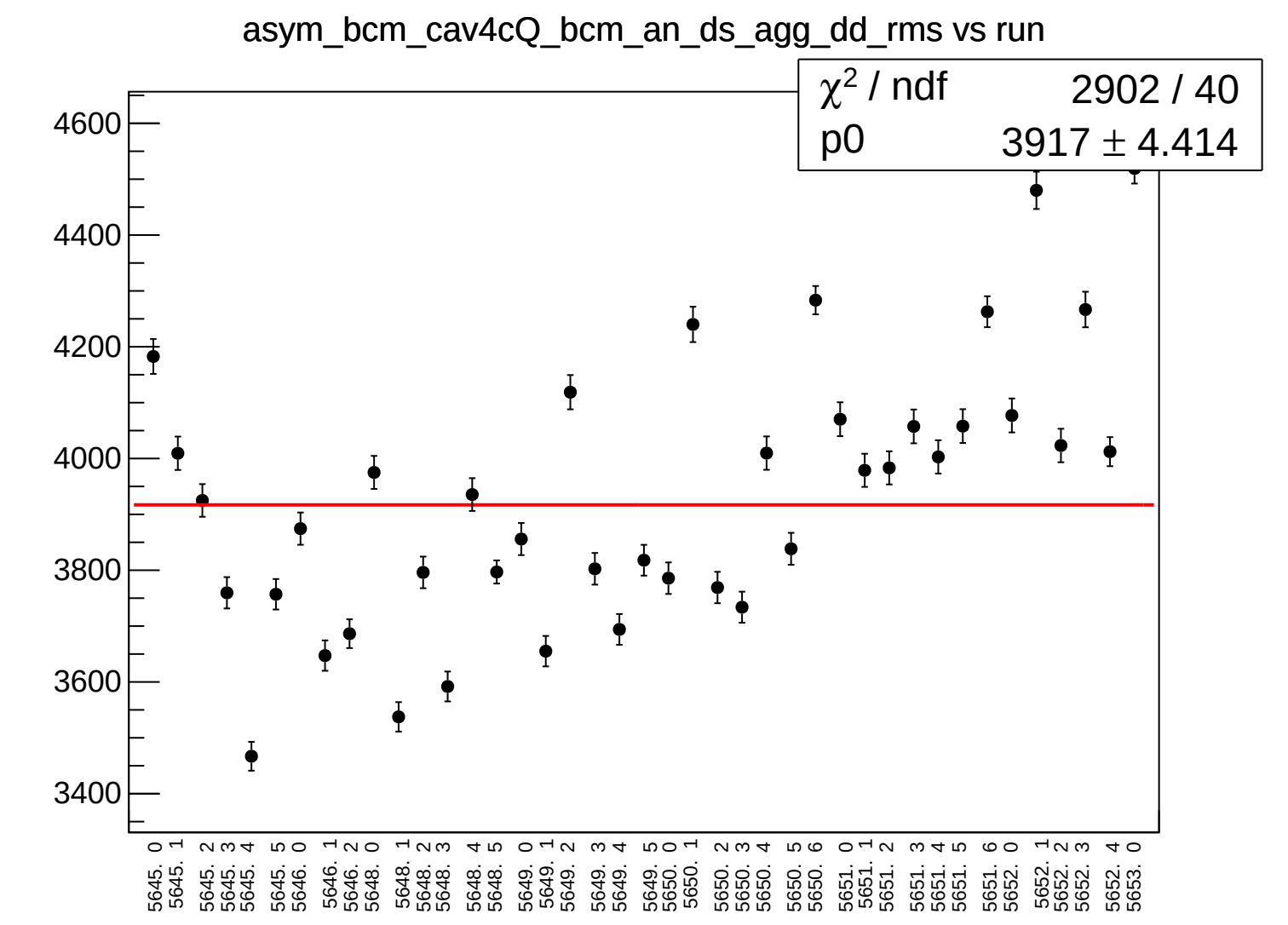

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2902 / 40
p0 3917 ± 4.414
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

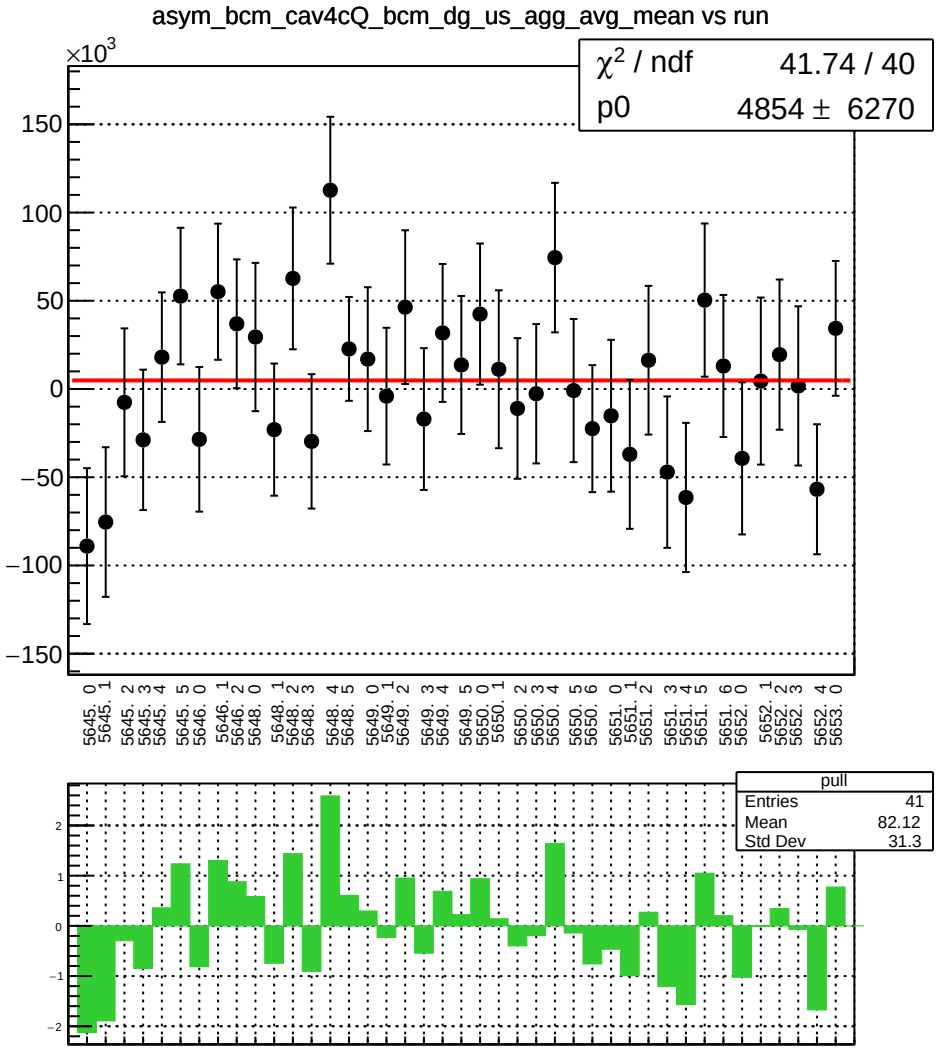

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ^2 / ndf 41.72 / 40
p0 4842 ± 6270
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 82.23
Std Dev 30.7
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009208
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

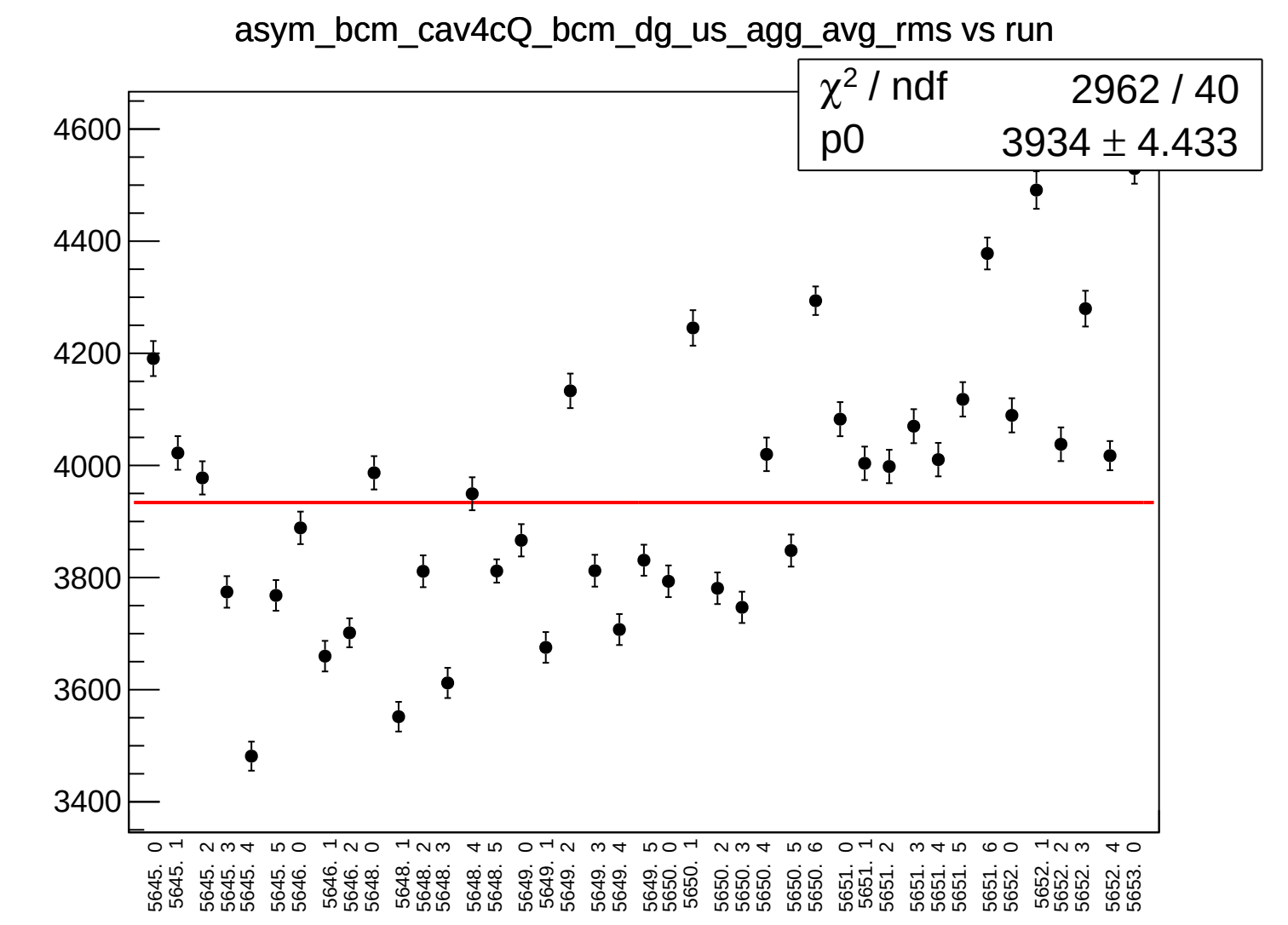

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2961 / 40
p0 3934 ± 4.433
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

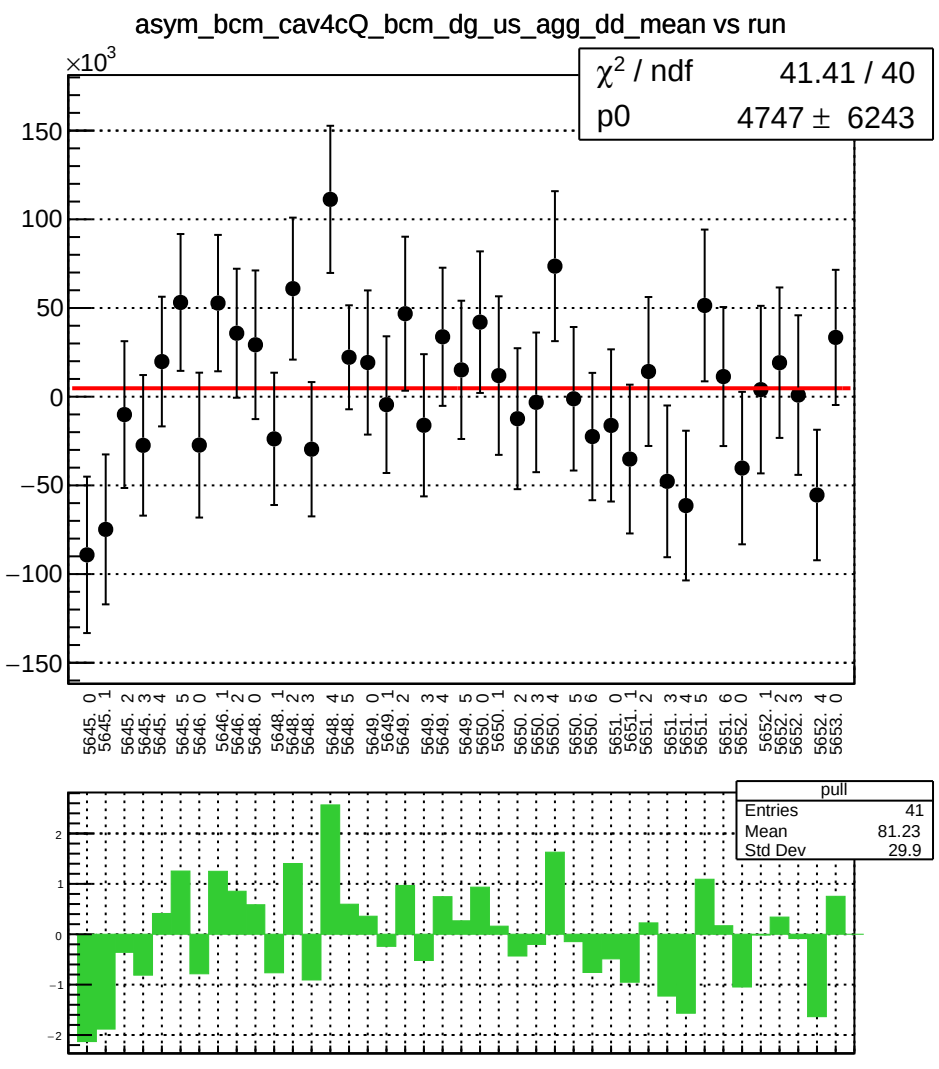

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ^2 / ndf 41.43 / 40
p0 4759 ± 6242
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.12
Std Dev 30.47
2
1
0
−1
−2

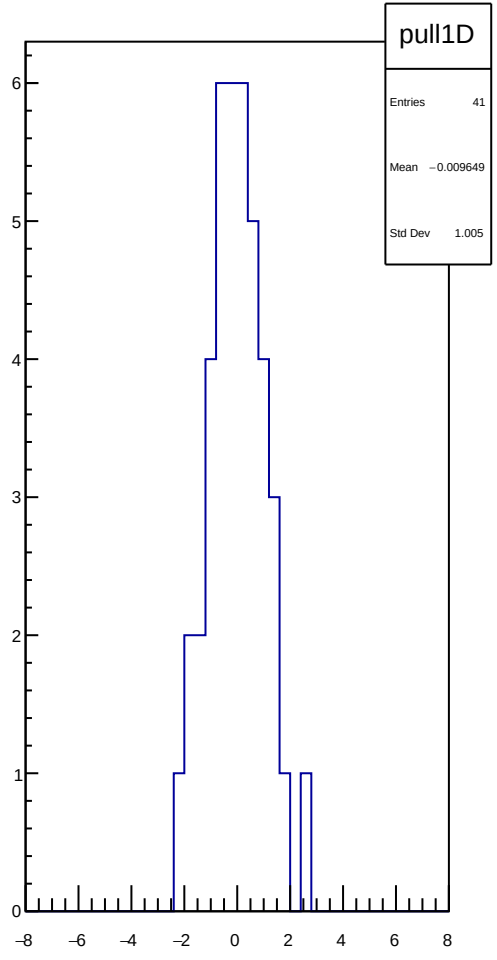

pull1D
Entries 41
Mean −0.009622
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

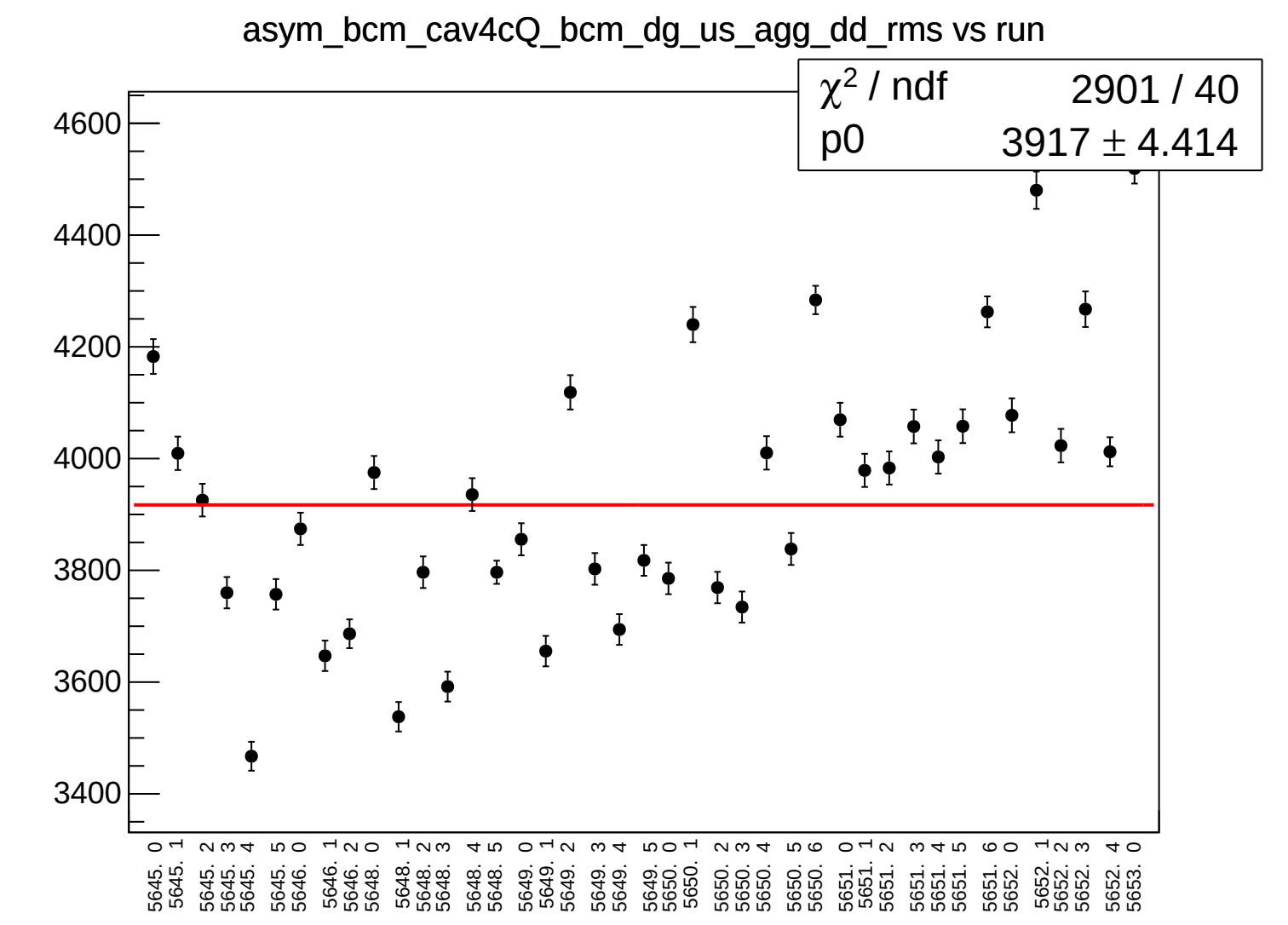

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2902 / 40
p0 3917 ± 4.414
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

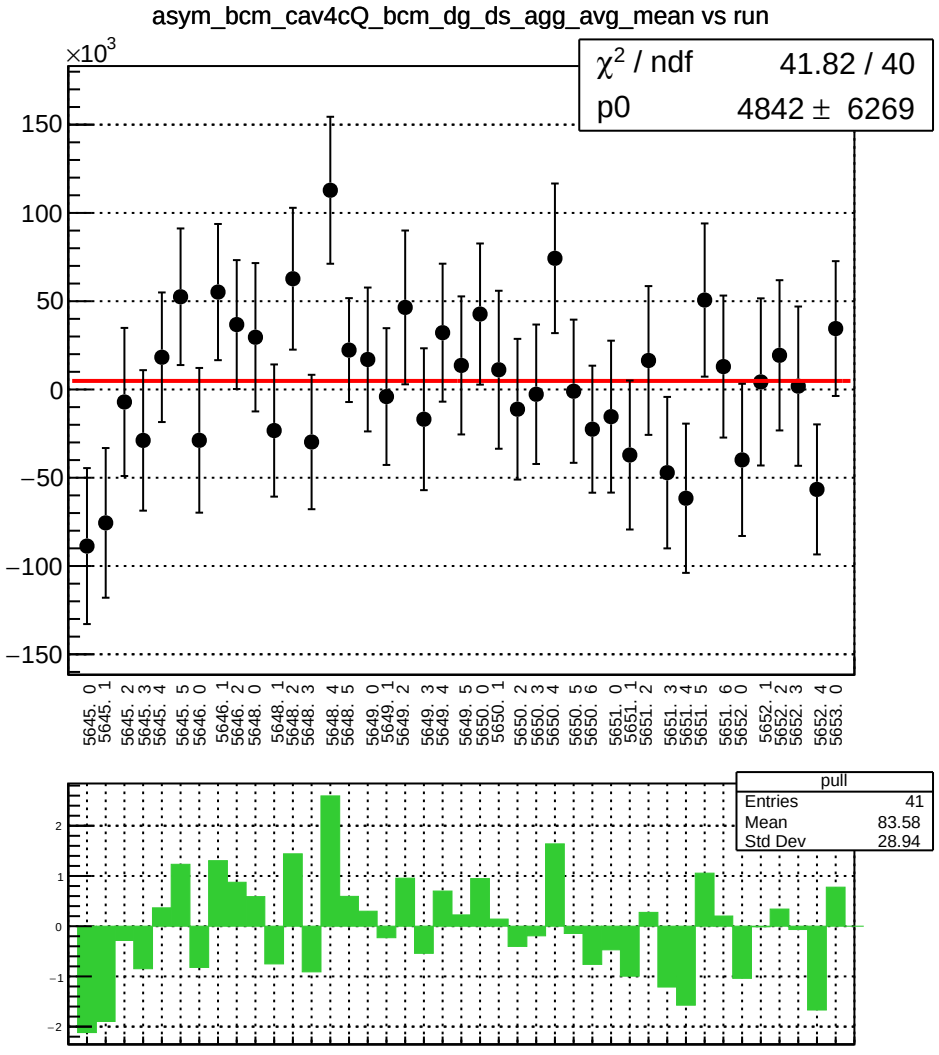

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 41.74 / 40
p0 4854 ± 6270
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 82.12
Std Dev 31.3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009178
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

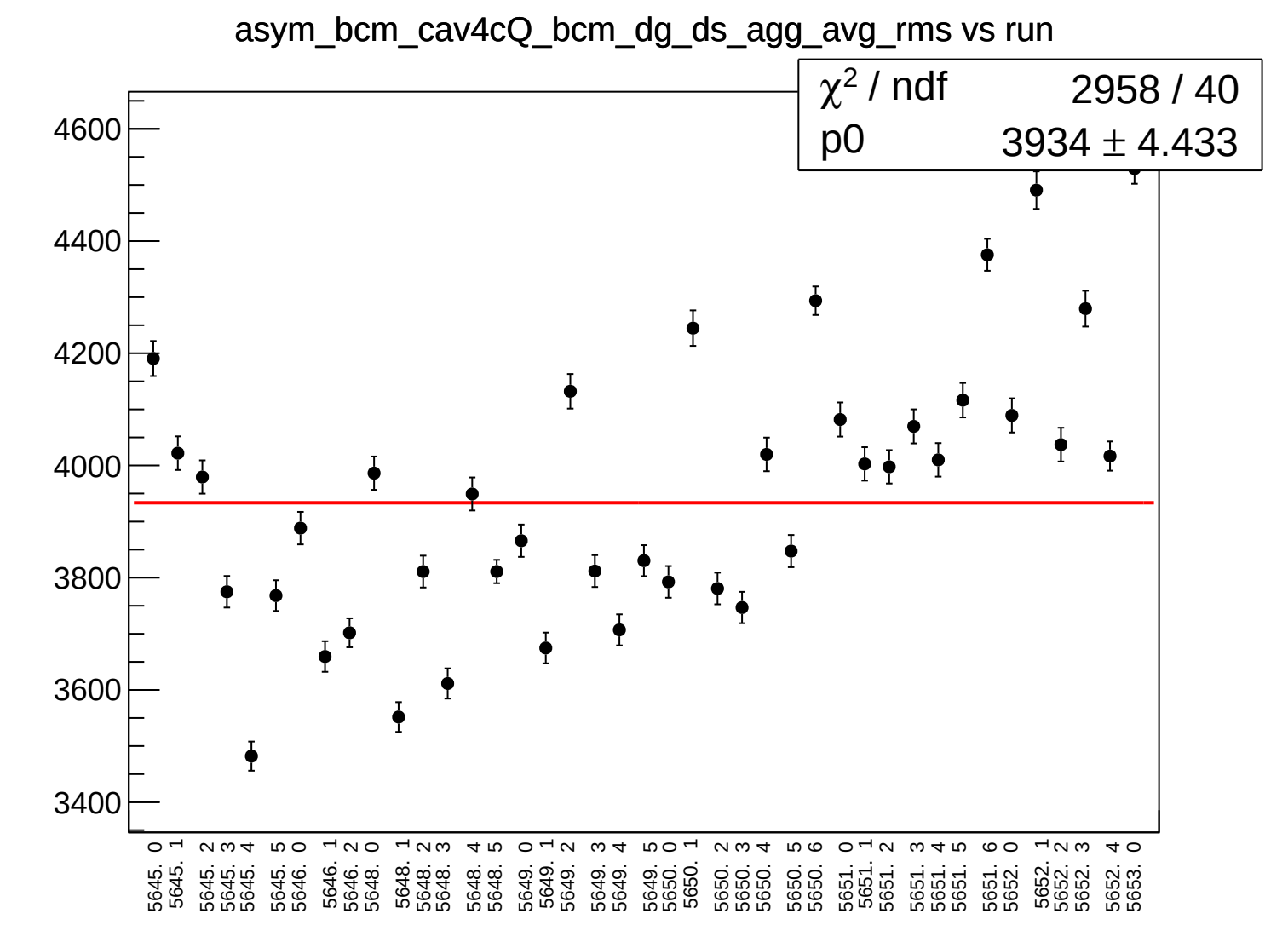

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2962 / 40
p0 3934 ± 4.433
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

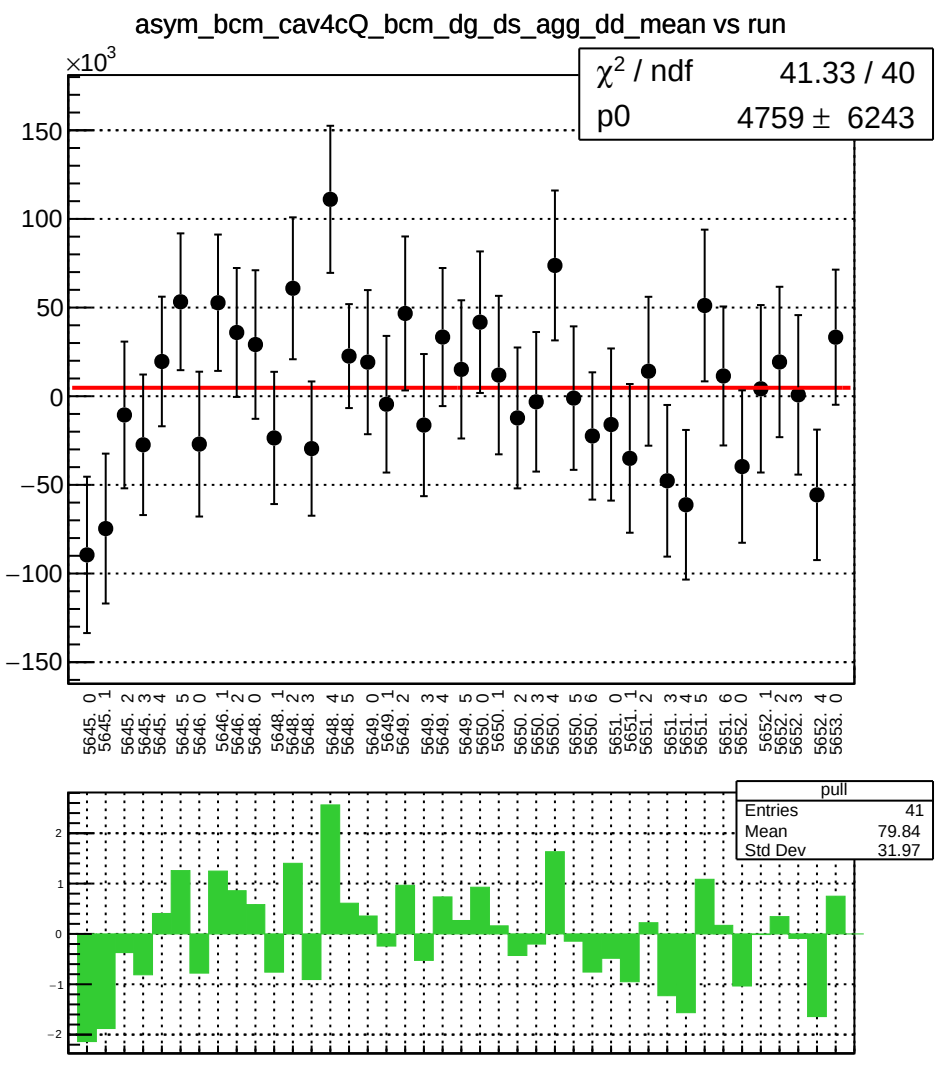

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 41.41 / 40
p0 4747 ± 6243
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.23
Std Dev 29.9
2
1
0
−1
−2

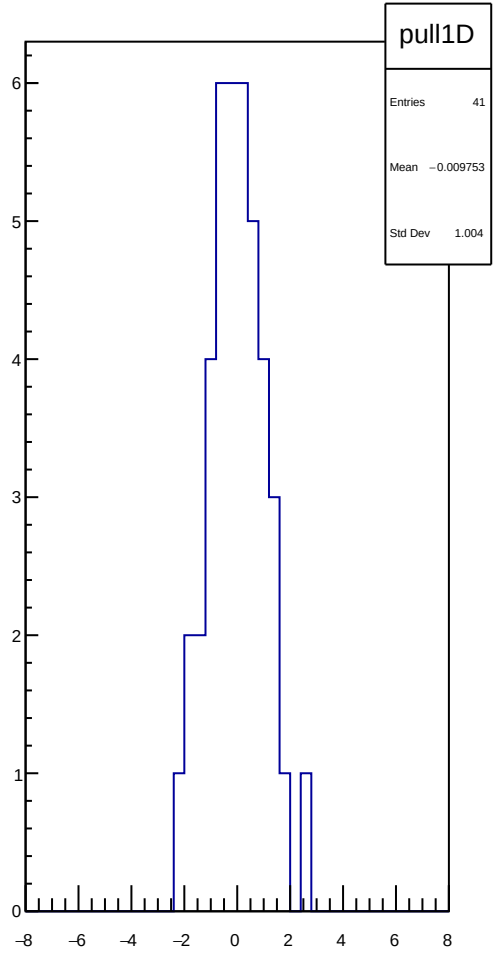

pull1D
Entries 41
Mean −0.009649
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

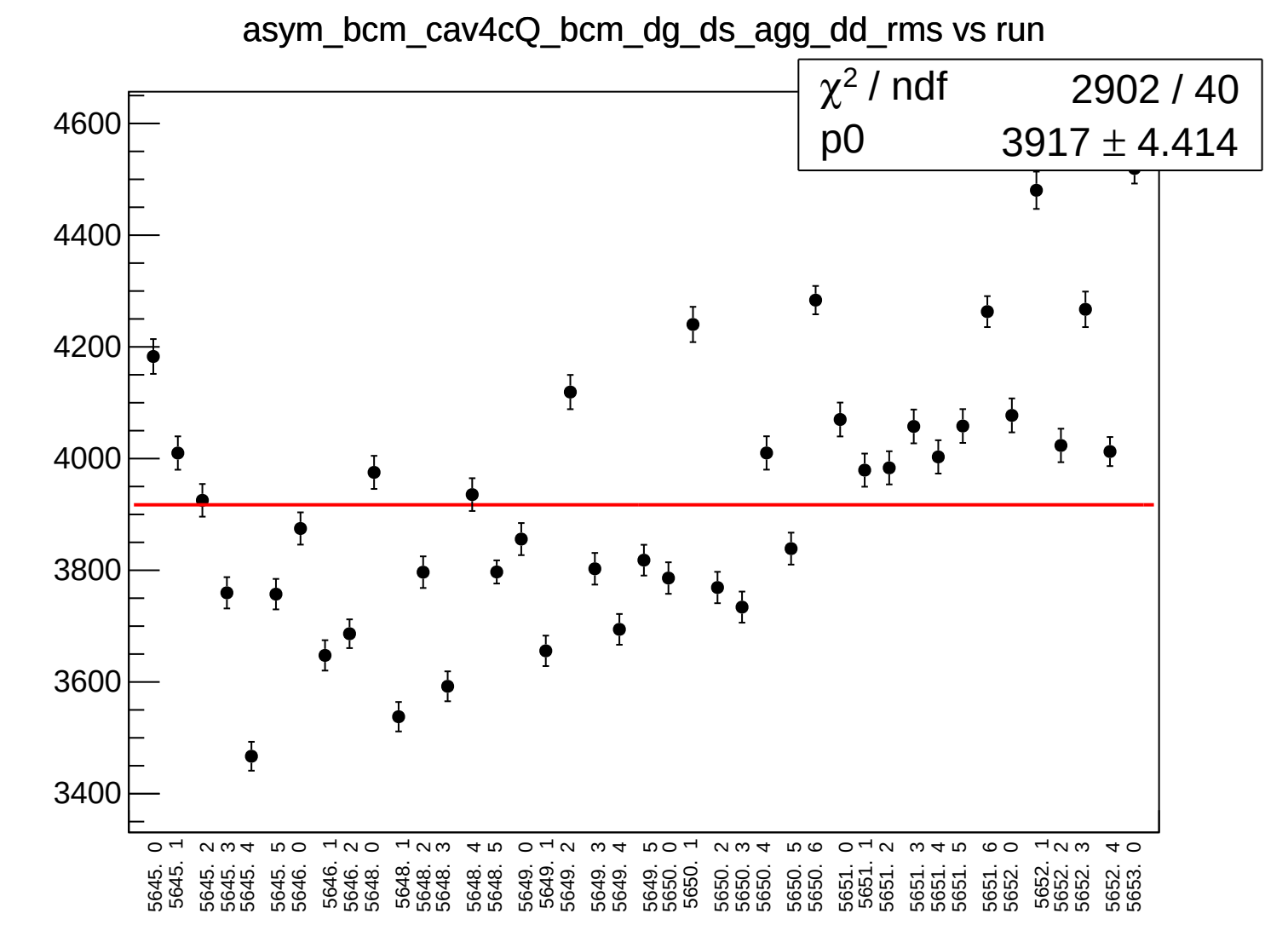

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2901 / 40
p0 3917 ± 4.414
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

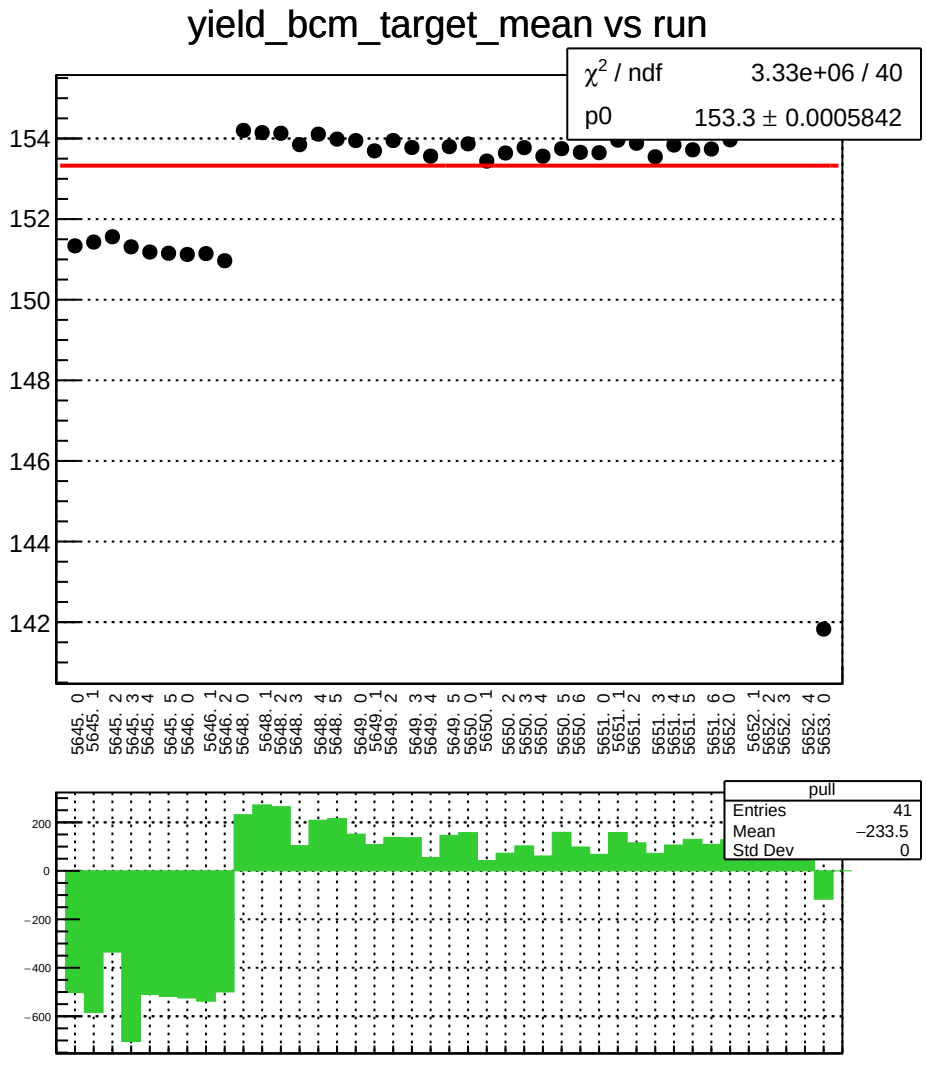

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ^2 / ndf 41.82 / 40
p0 4842 ± 6269
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 83.58
Std Dev 28.94
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009082
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

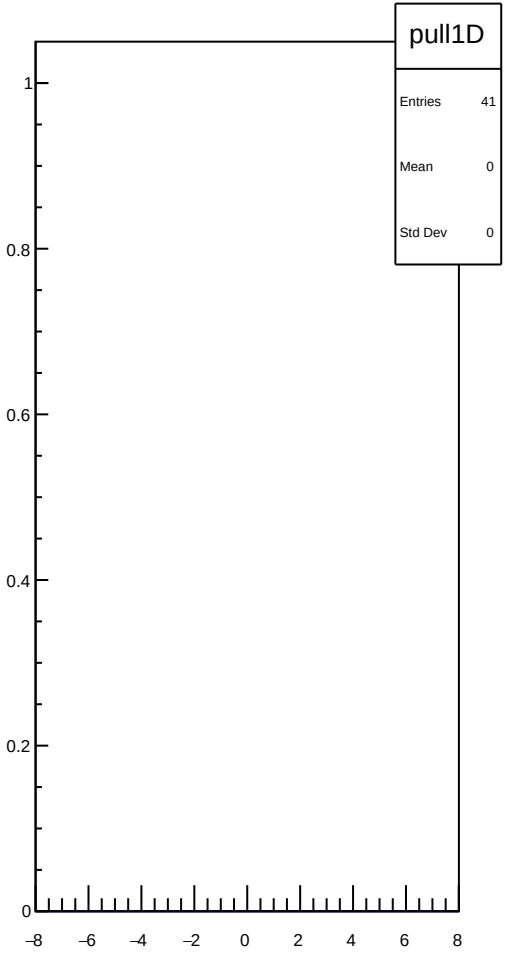

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2958 / 40
p0 3934 ± 4.433
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

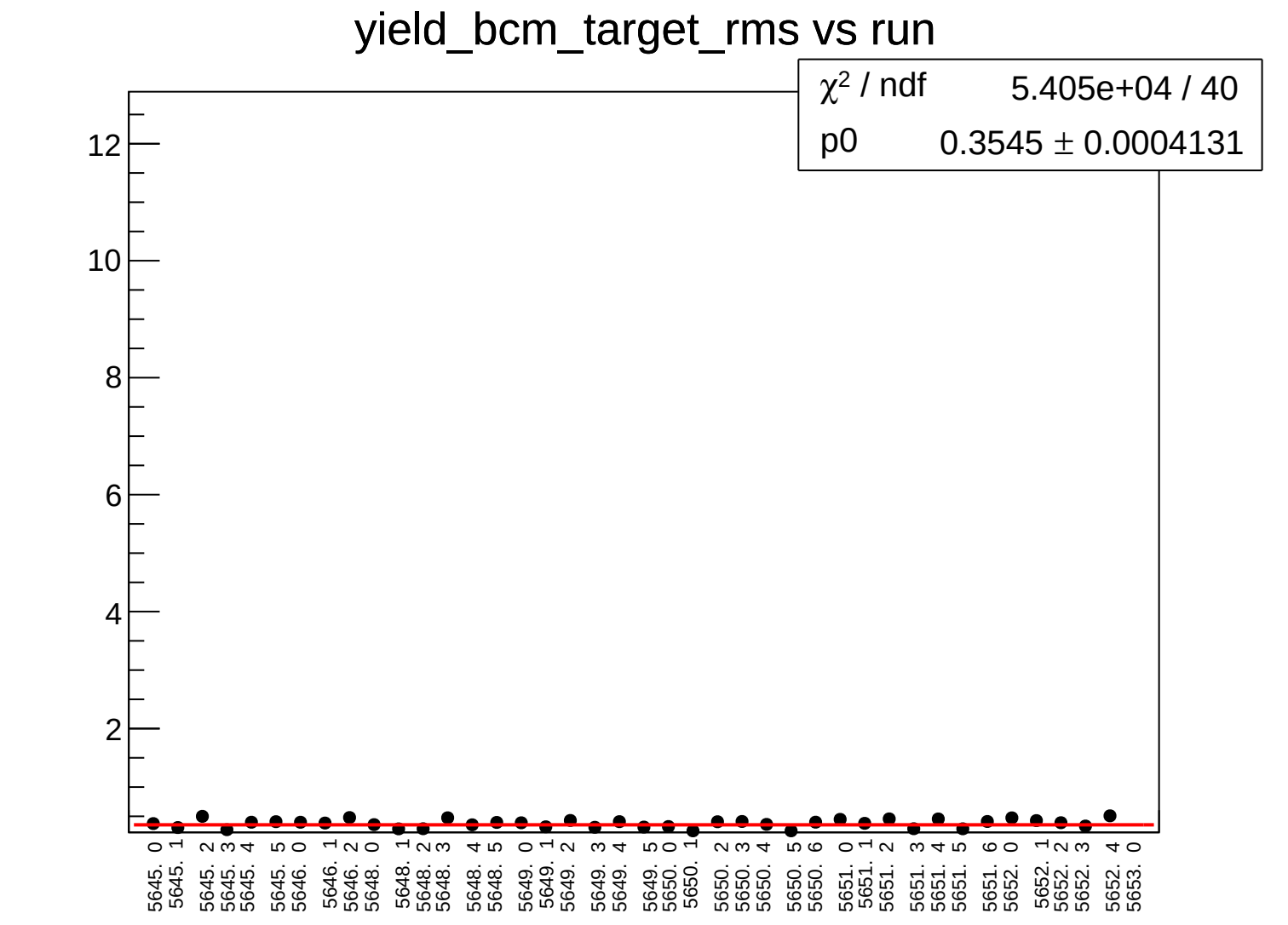

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ^2 / ndf 41.33 / 40
p0 4759 ± 6243
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 79.84
Std Dev 31.97
2
1
0
−1
−2

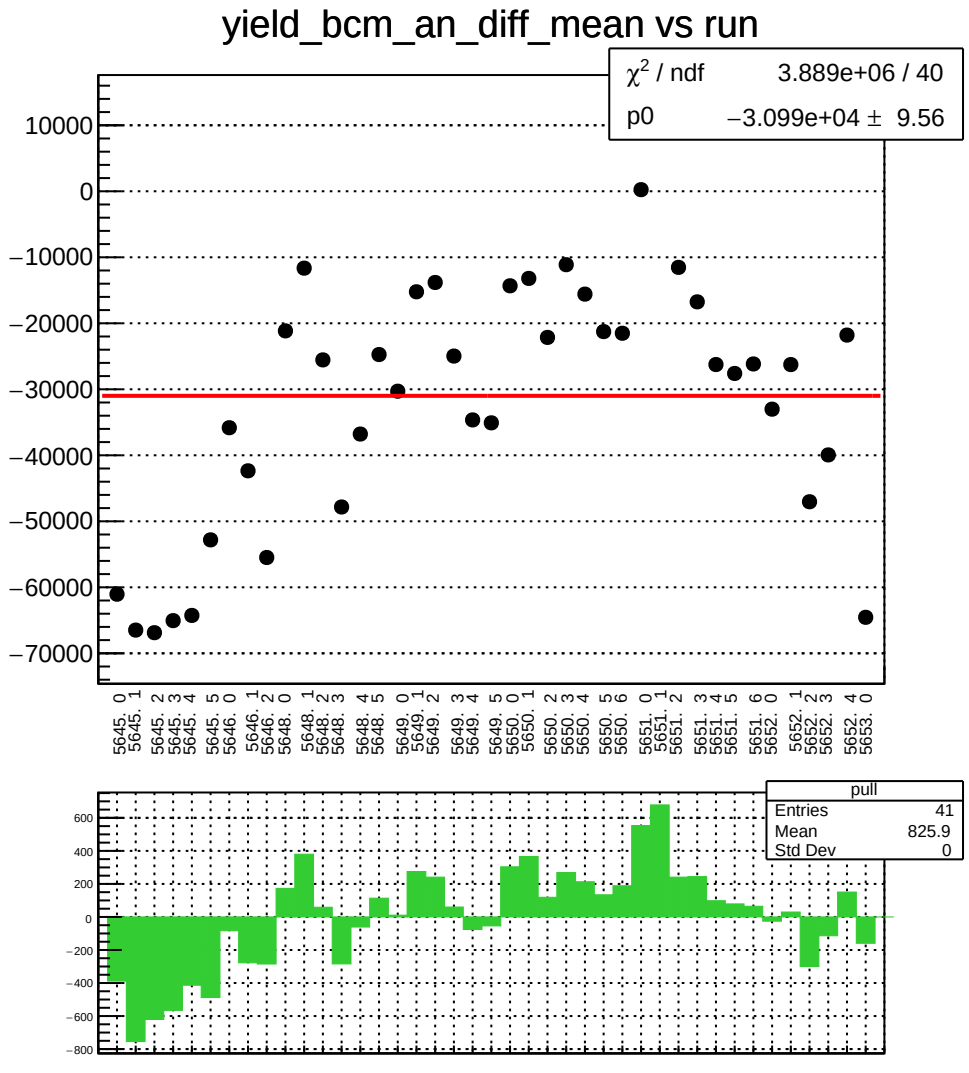

pull1D
Entries 41
Mean −0.009753
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

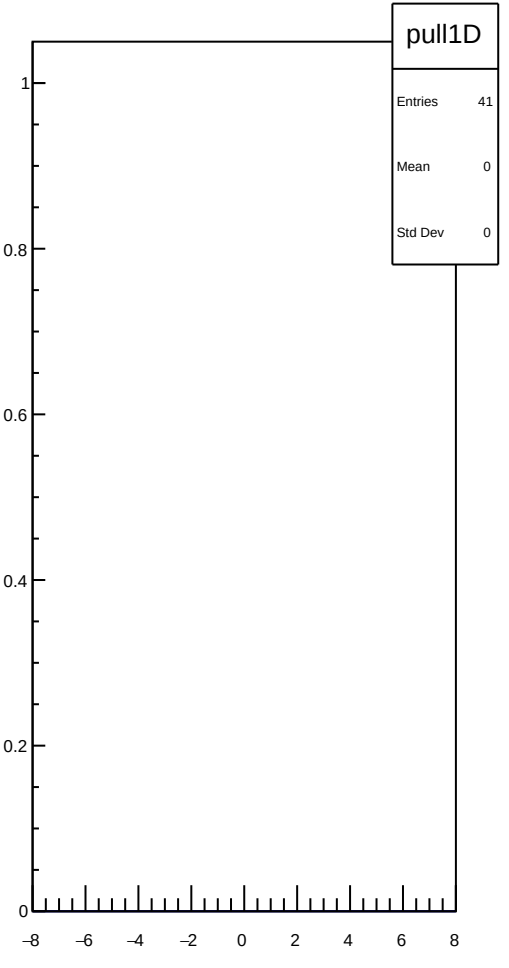

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2902 / 40
p0 3917 ± 4.414
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

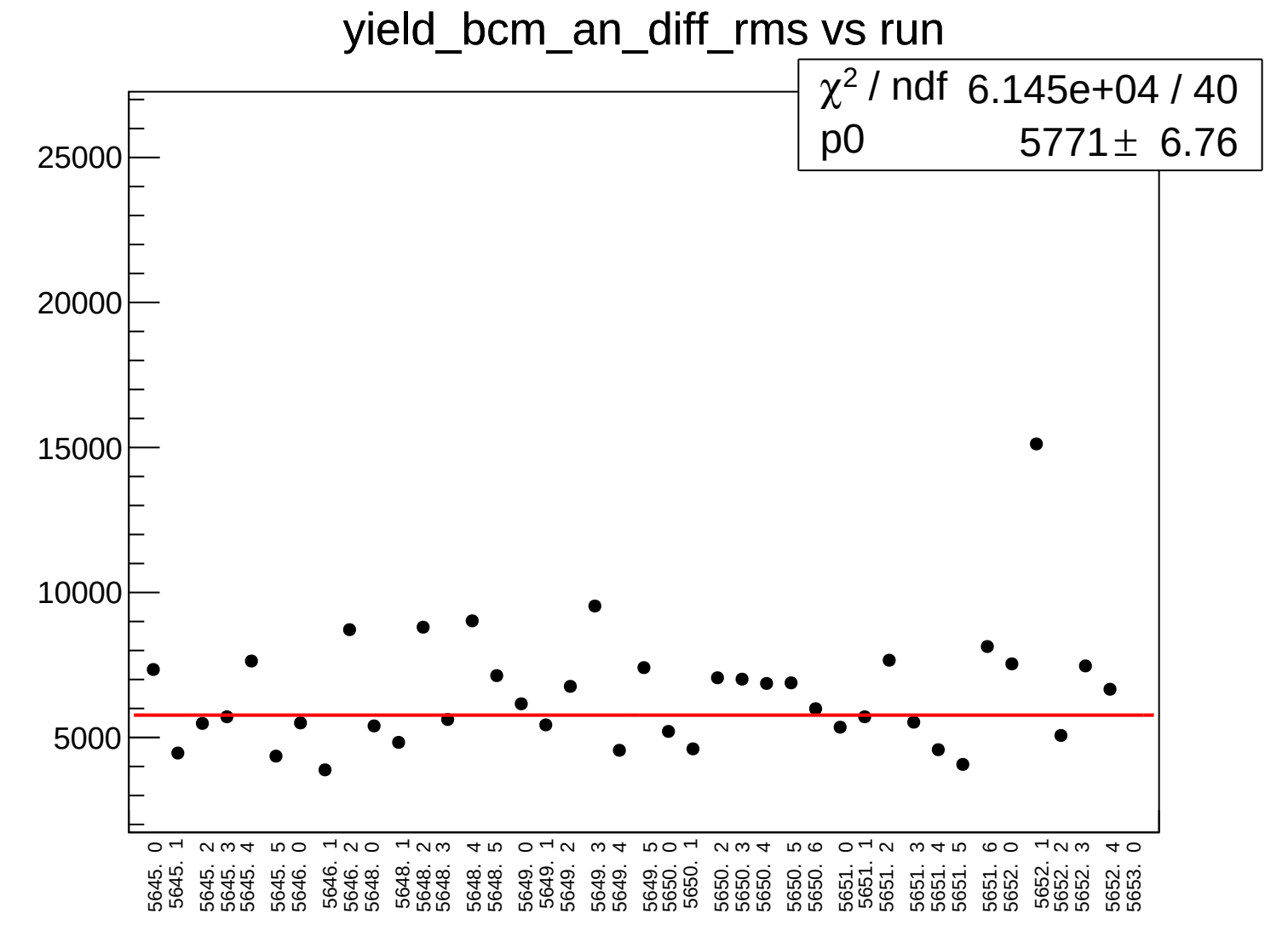

yield_bcm_target_mean vs run
χ² / ndf 3.33e+06 / 40
p0 153.3 ± 0.0005842
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −233.5
Std Dev 0
200
0
−200
−400
−600

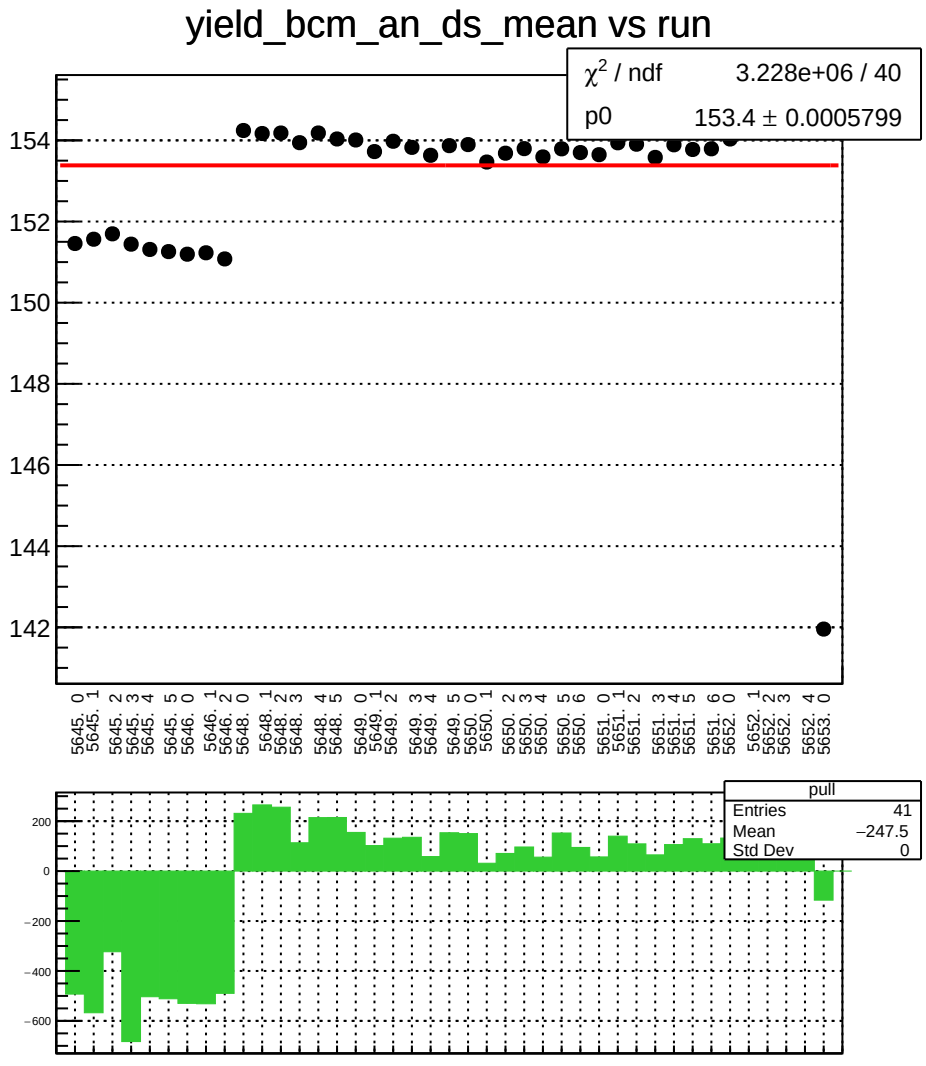

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

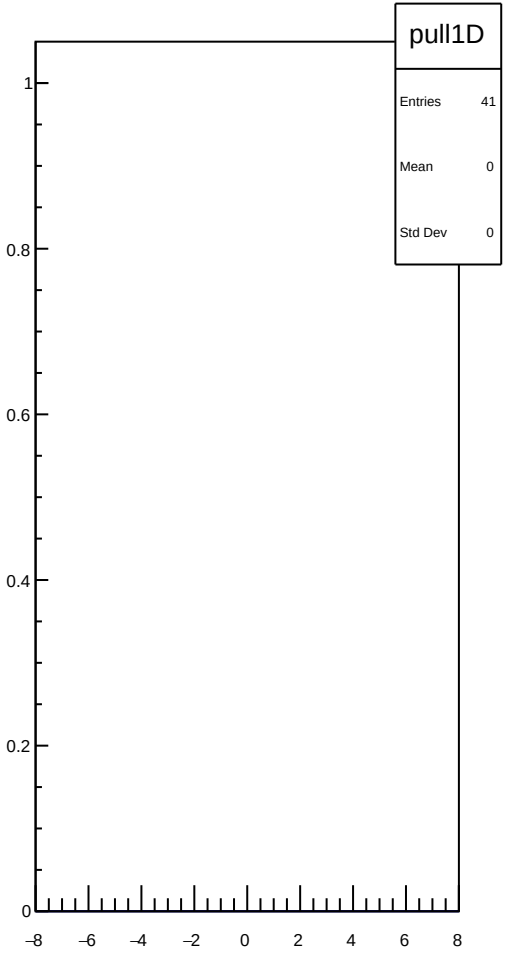

yield_bcm_target_rms vs run
χ² / ndf 5.405e+04 / 40
p0 0.3545 ± 0.0004131
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

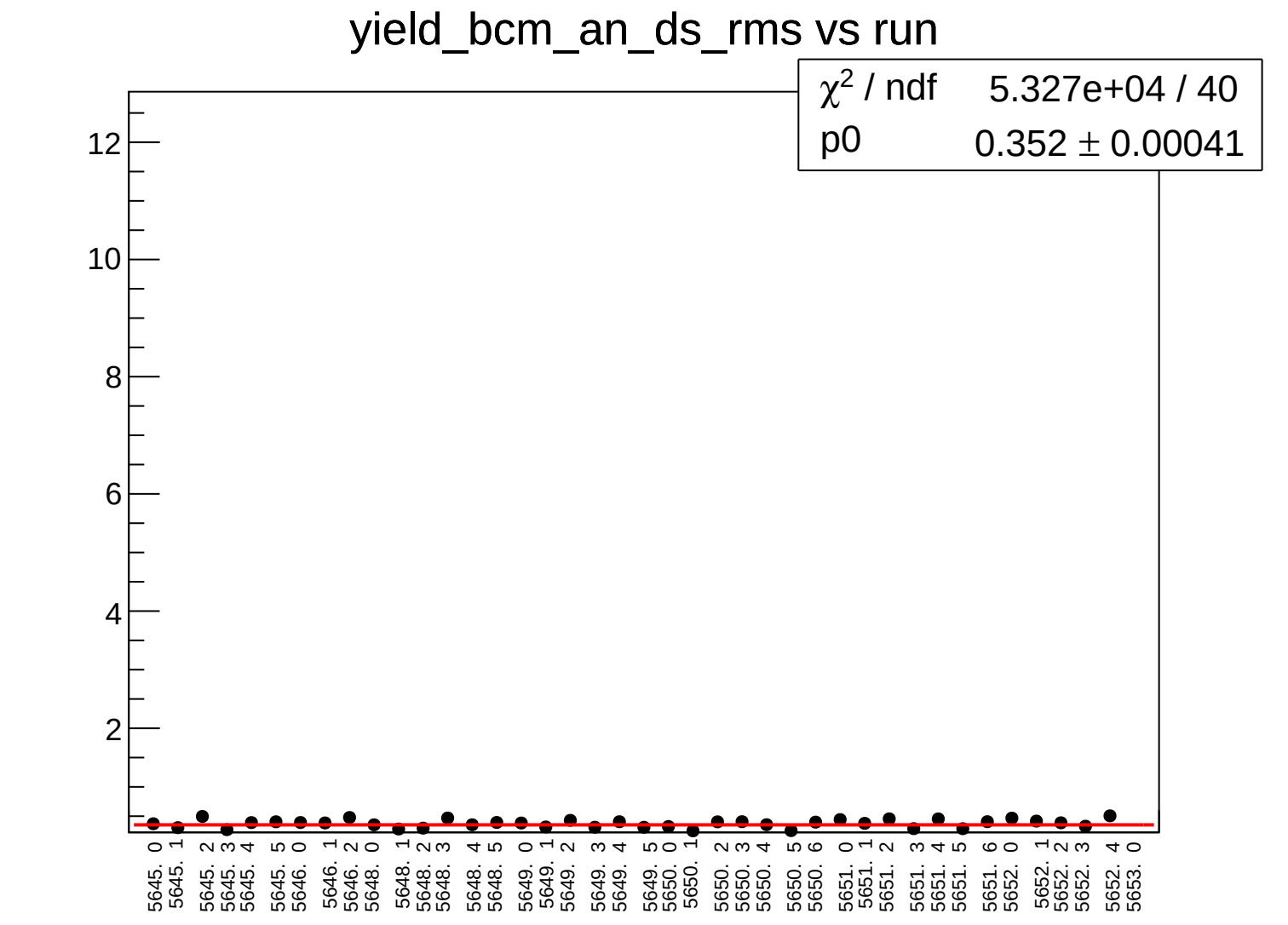

yield_bcm_an_diff_mean vs run
χ² / ndf 3.889e+06 / 40
p0 −3.099e+04 ± 9.56
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
−70000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 825.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800

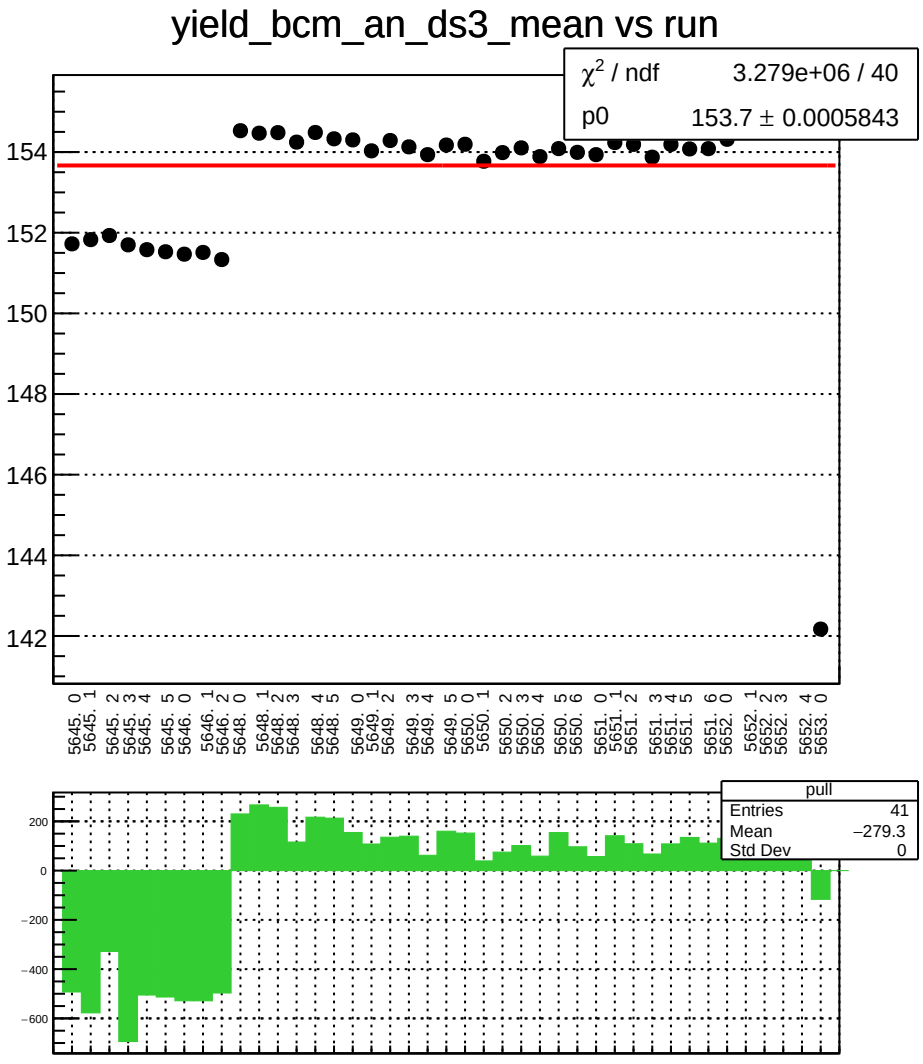

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

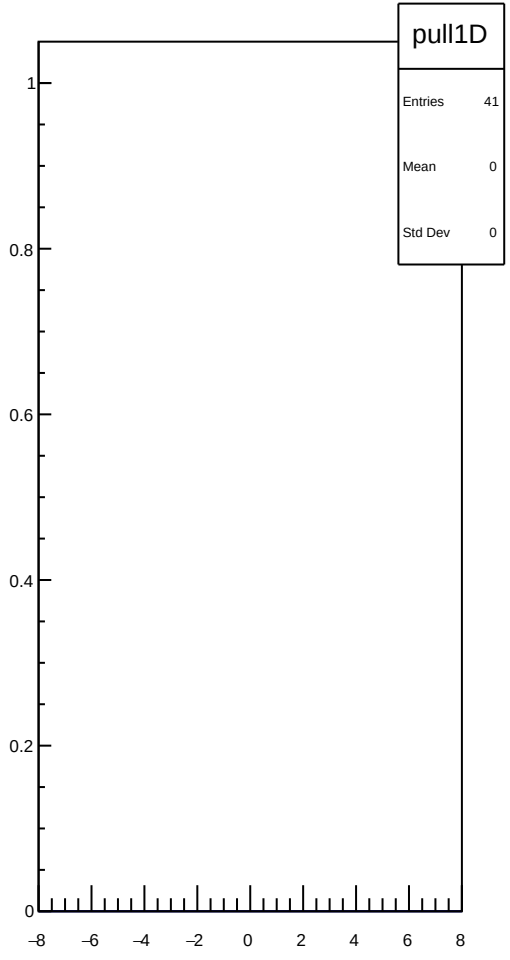

yield_bcm_an_diff_rms vs run
χ² / ndf 6.145e+04 / 40
p0 5771 ± 6.76
25000
20000
15000
10000
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

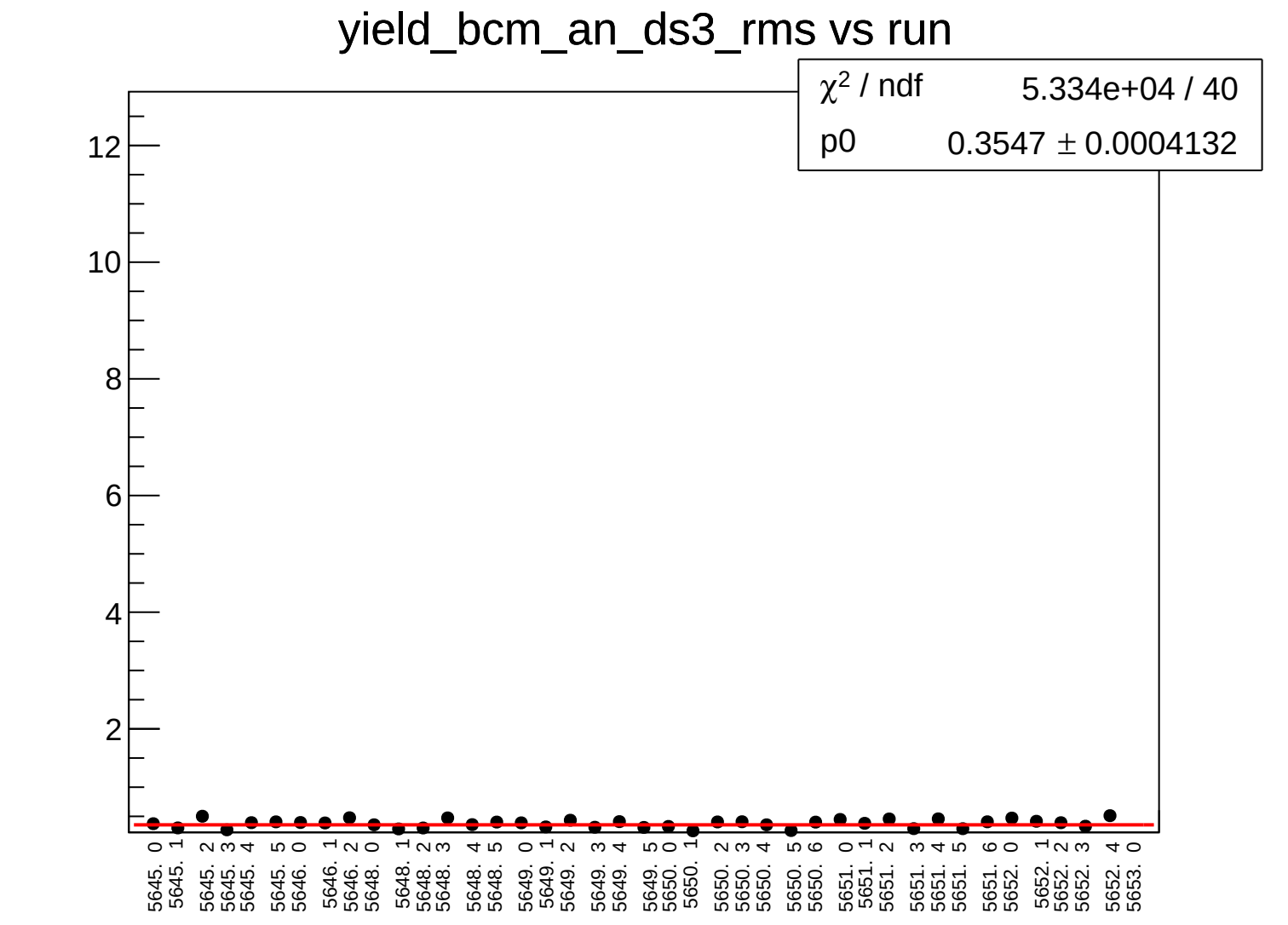

yield_bcm_an_ds_mean vs run
χ² / ndf 3.228e+06 / 40
p0 153.4 ± 0.0005799
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −247.5
Std Dev 0
200
0
−200
−400
−600

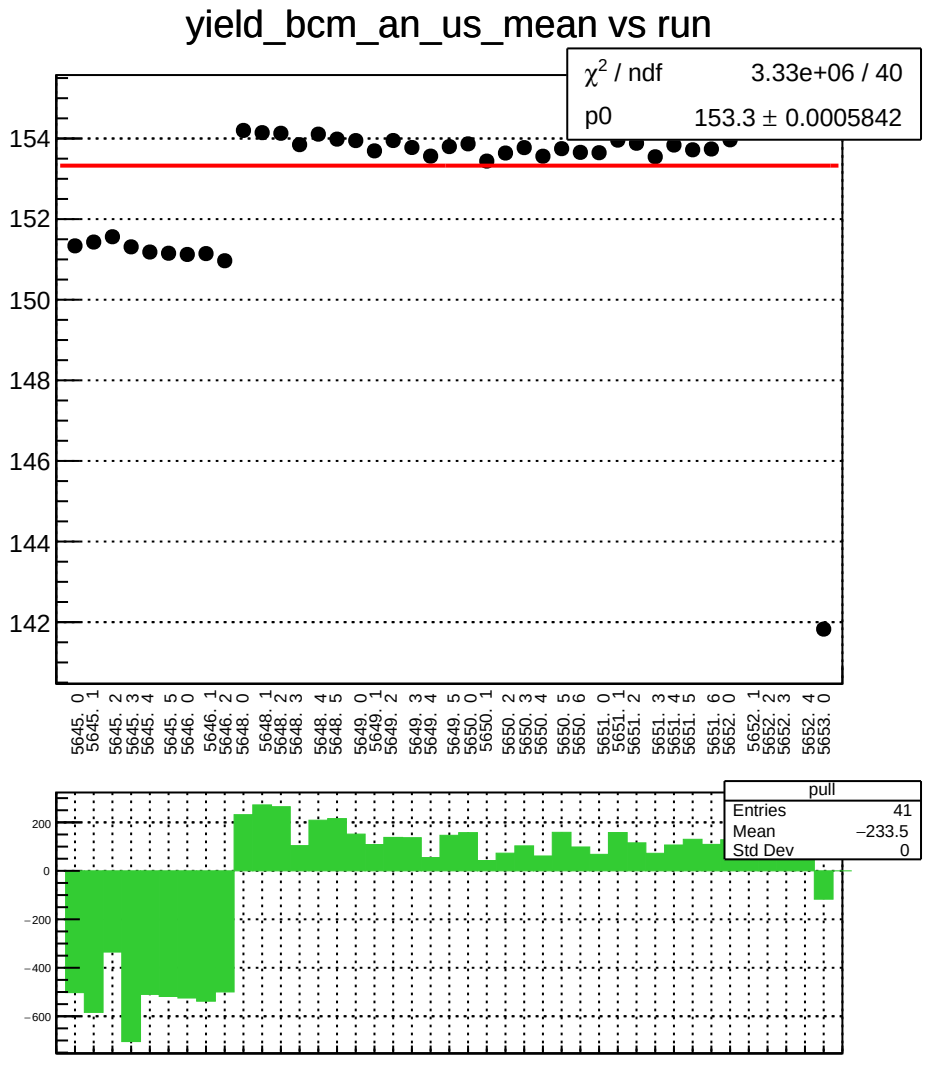

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

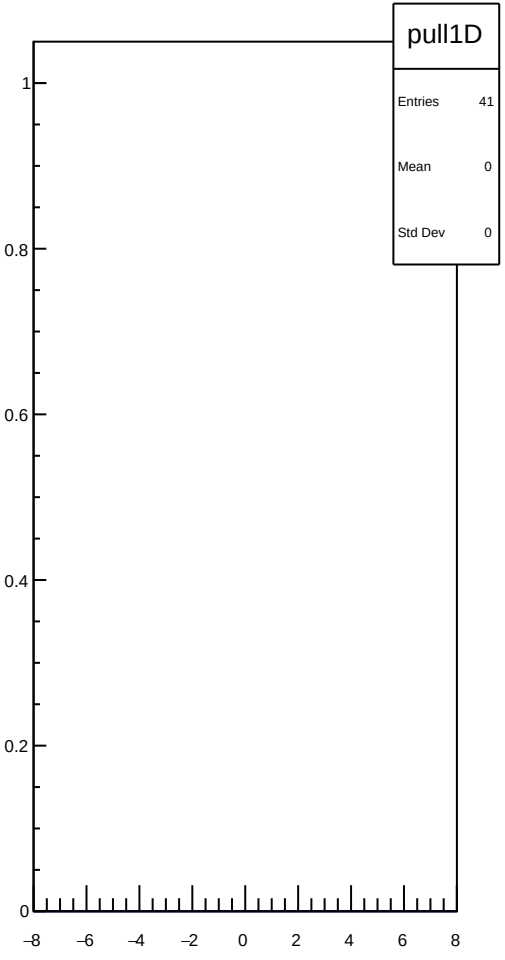

yield_bcm_an_ds_rms vs run
χ² / ndf 5.327e+04 / 40
p0 0.352 ± 0.00041
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

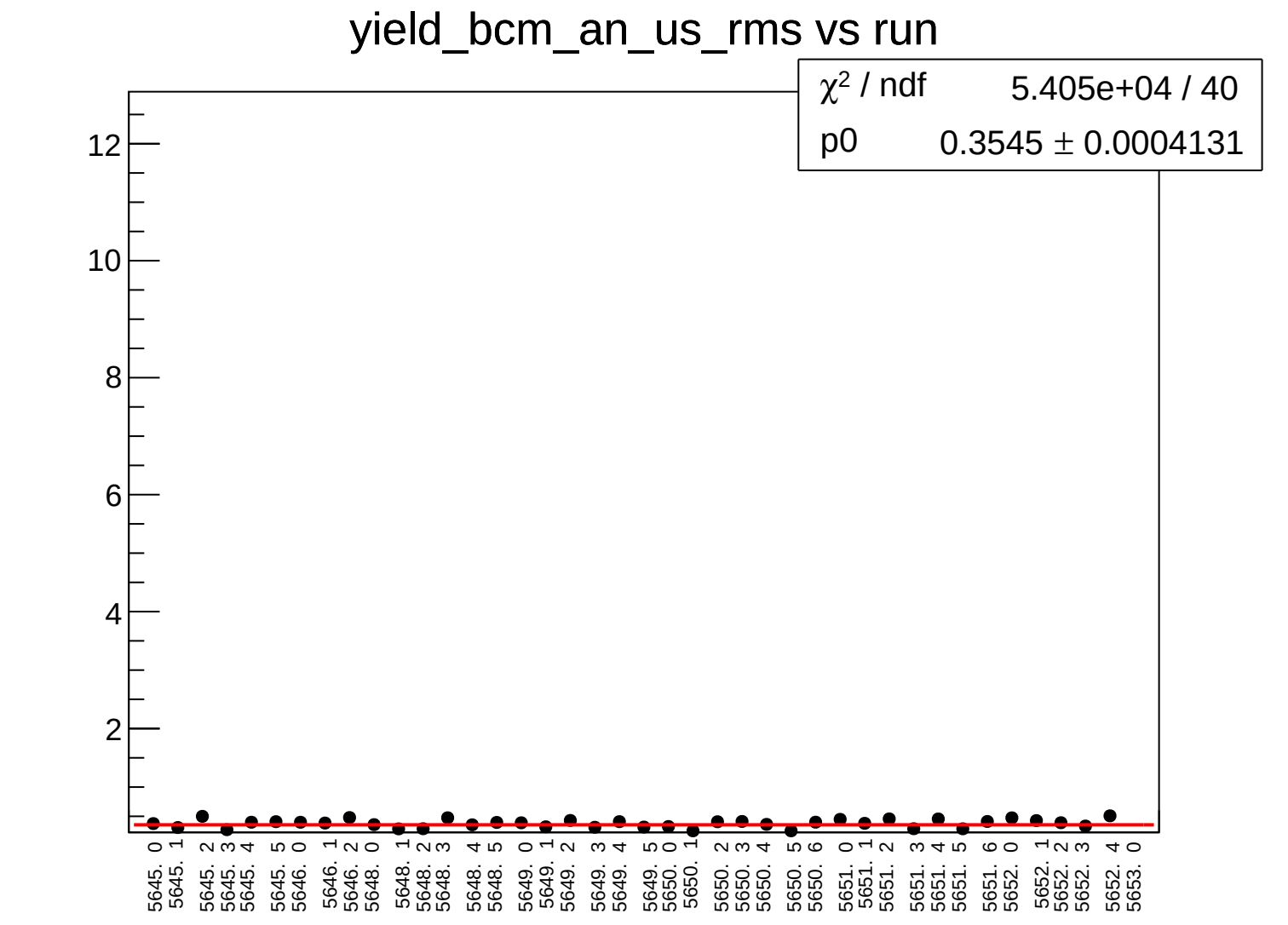

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.279e+06 / 40
p0 153.7 ± 0.0005843
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −279.3
Std Dev 0
200
0
−200
−400
−600

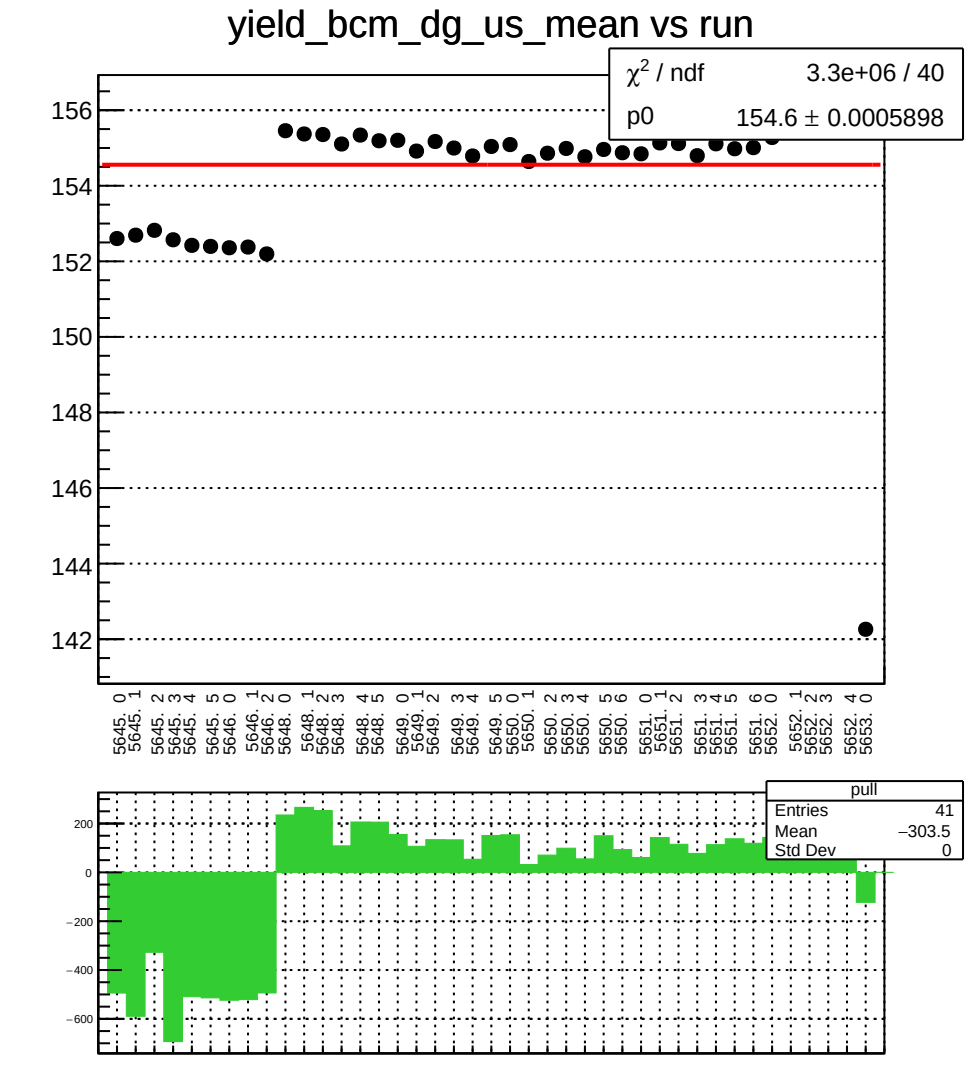

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

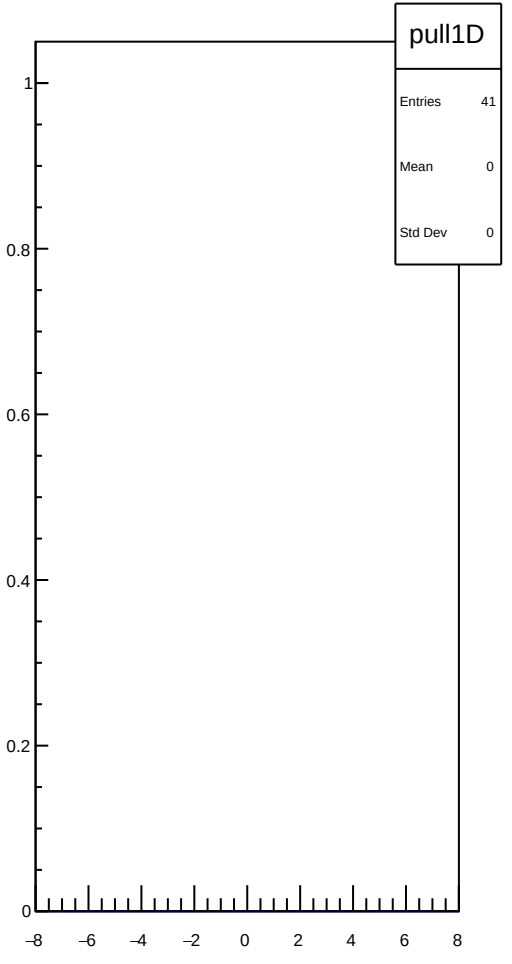

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.334e+04 / 40
p0 0.3547 ± 0.0004132
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

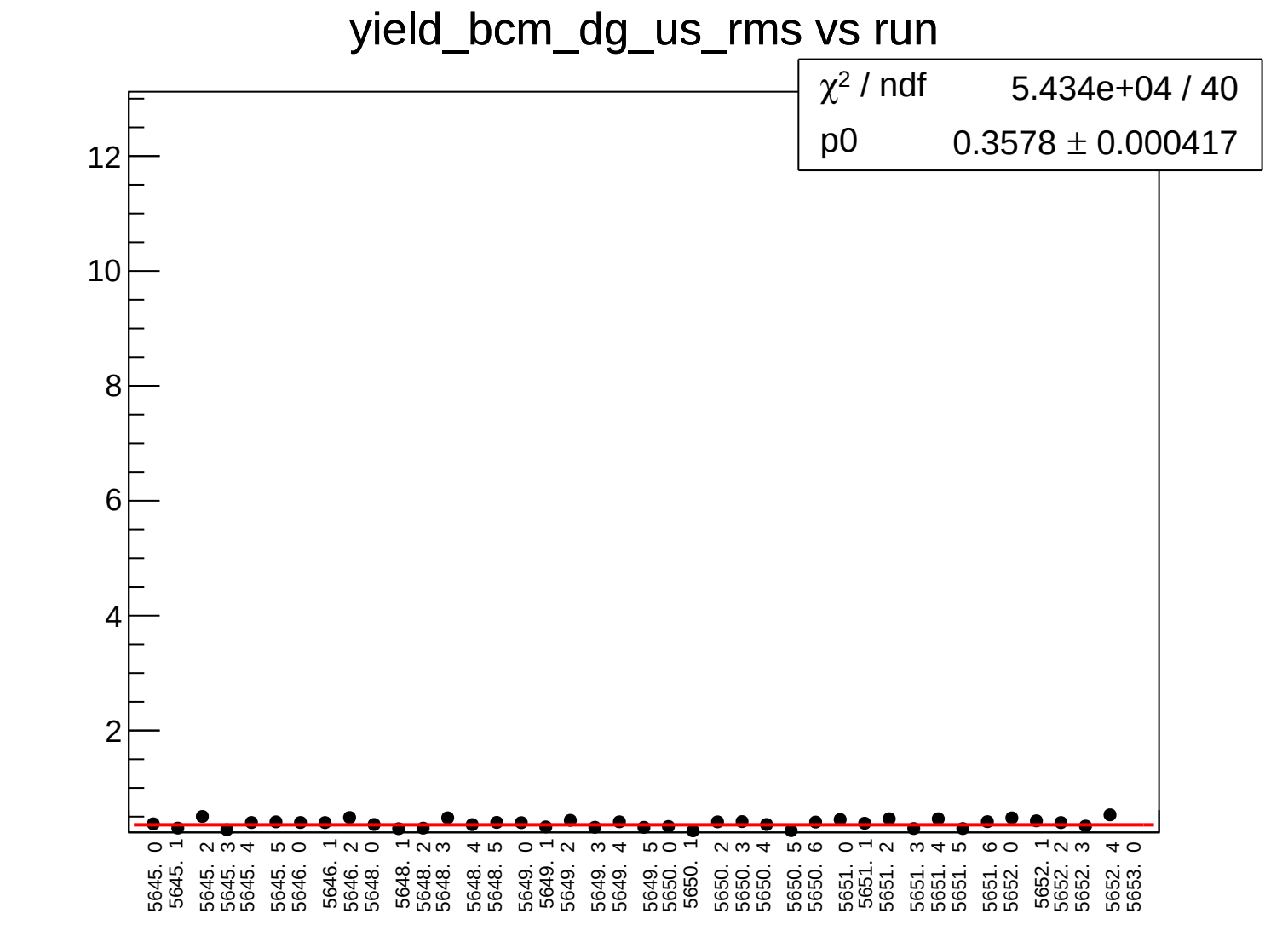

yield_bcm_an_us_mean vs run
χ² / ndf 3.33e+06 / 40
p0 153.3 ± 0.0005842
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −233.5
Std Dev 0
200
0
−200
−400
−600

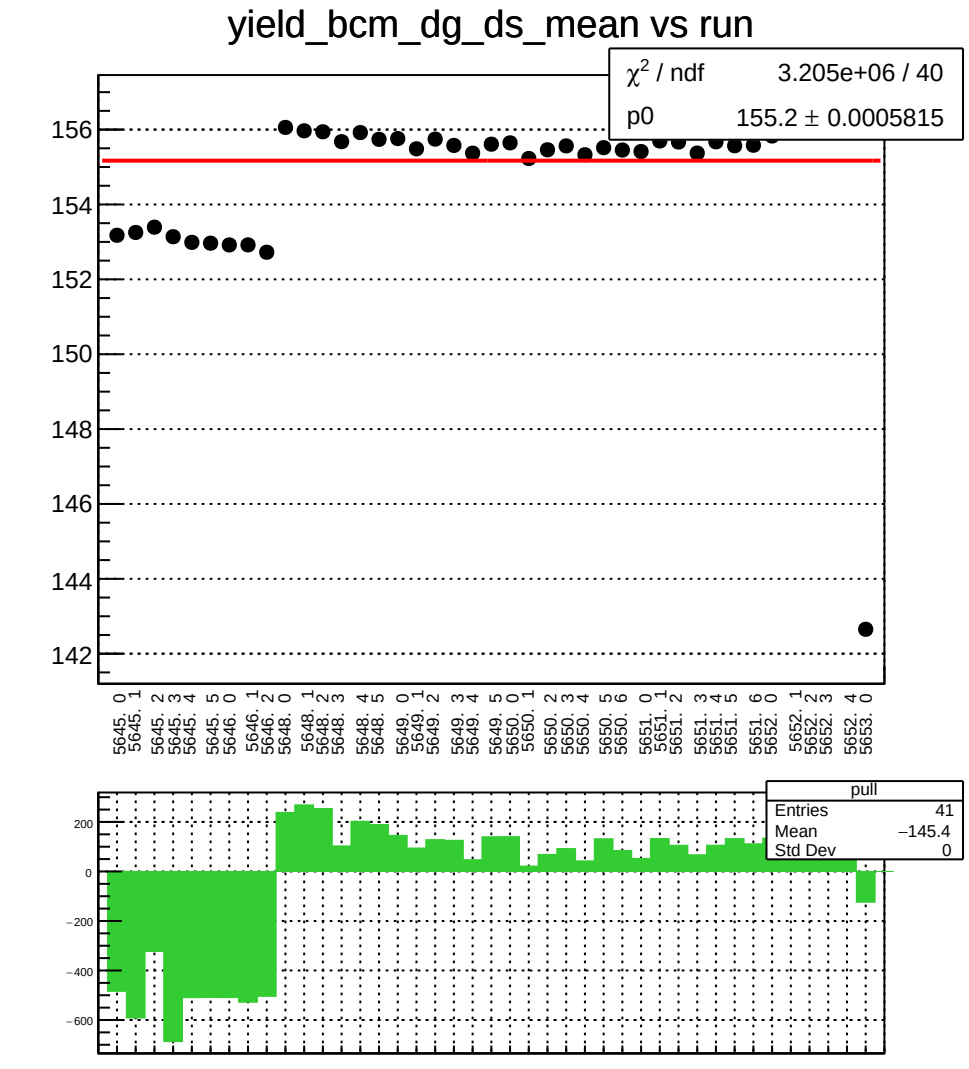

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

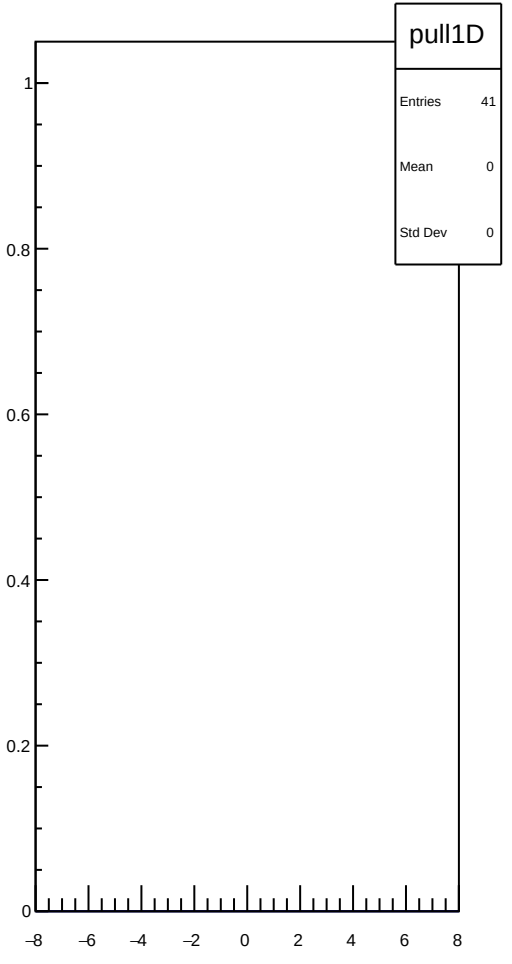

yield_bcm_an_us_rms vs run
χ² / ndf 5.405e+04 / 40
p0 0.3545 ± 0.0004131
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

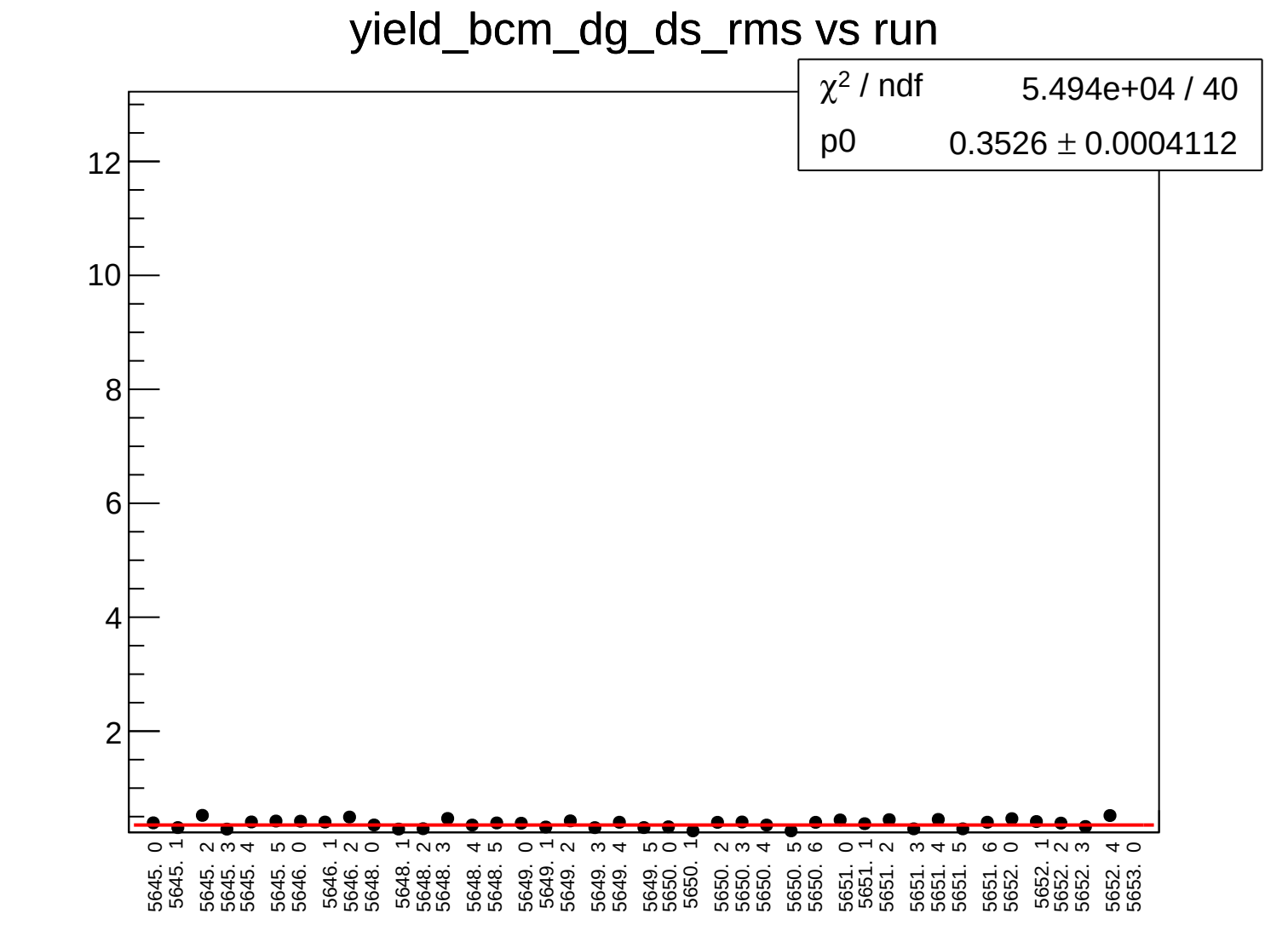

yield_bcm_dg_us_mean vs run
χ² / ndf 3.3e+06 / 40
p0 154.6 ± 0.0005898
156
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −303.5
Std Dev 0
200
0
−200
−400
−600

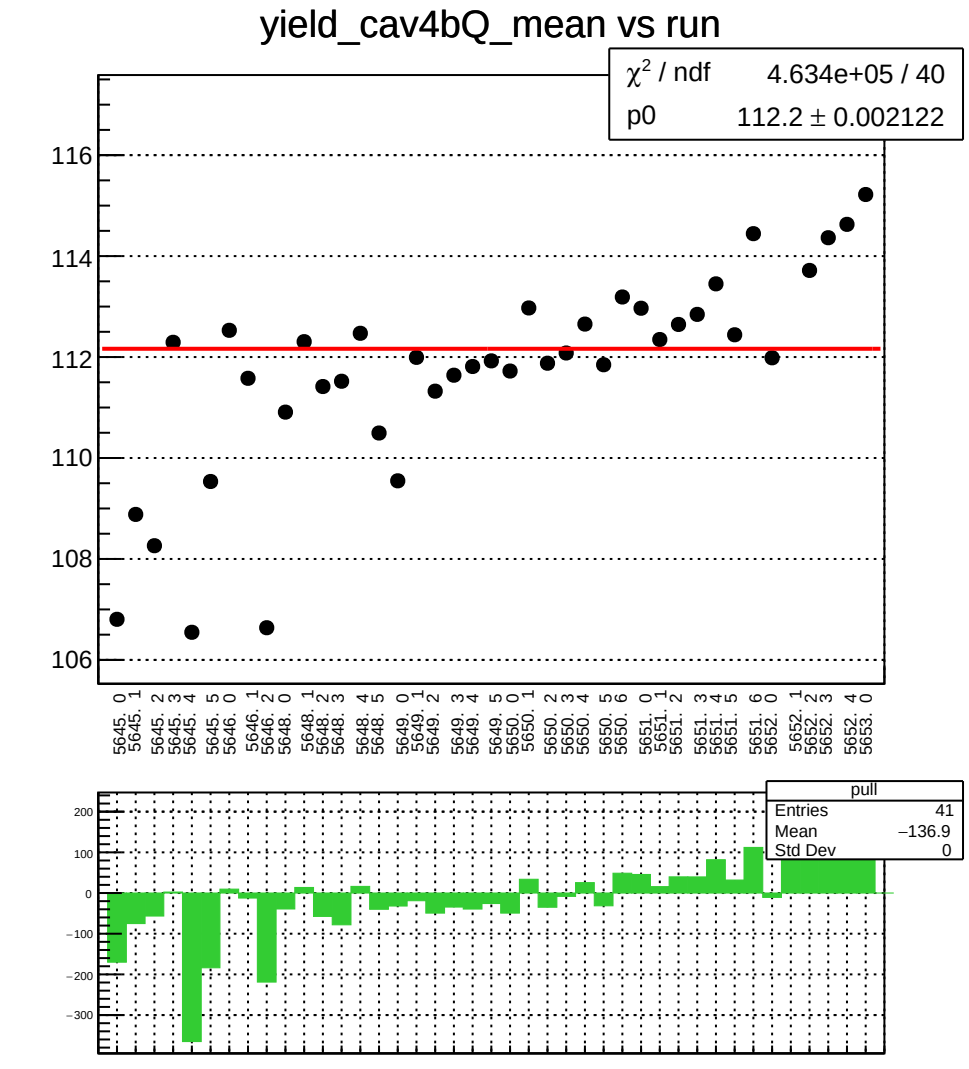

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

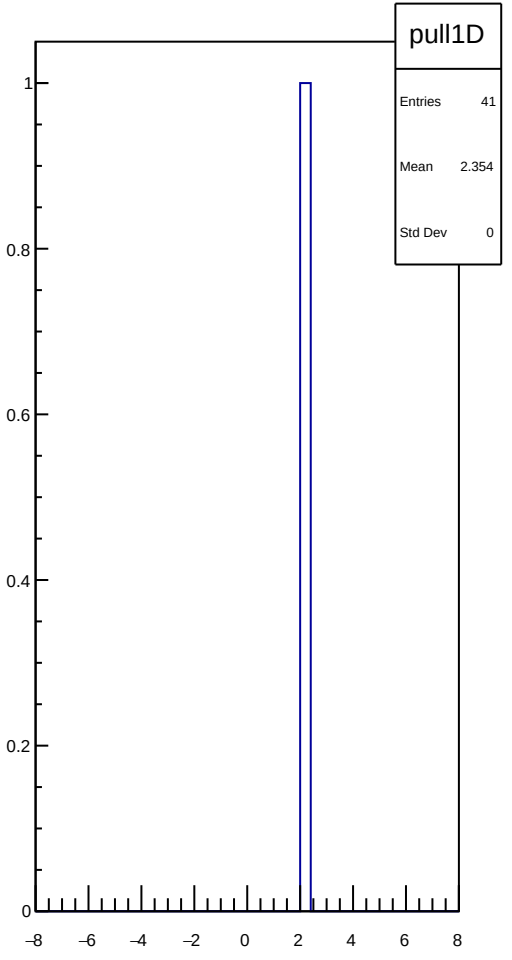

yield_bcm_dg_us_rms vs run
χ² / ndf 5.434e+04 / 40
p0 0.3578 ± 0.000417
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

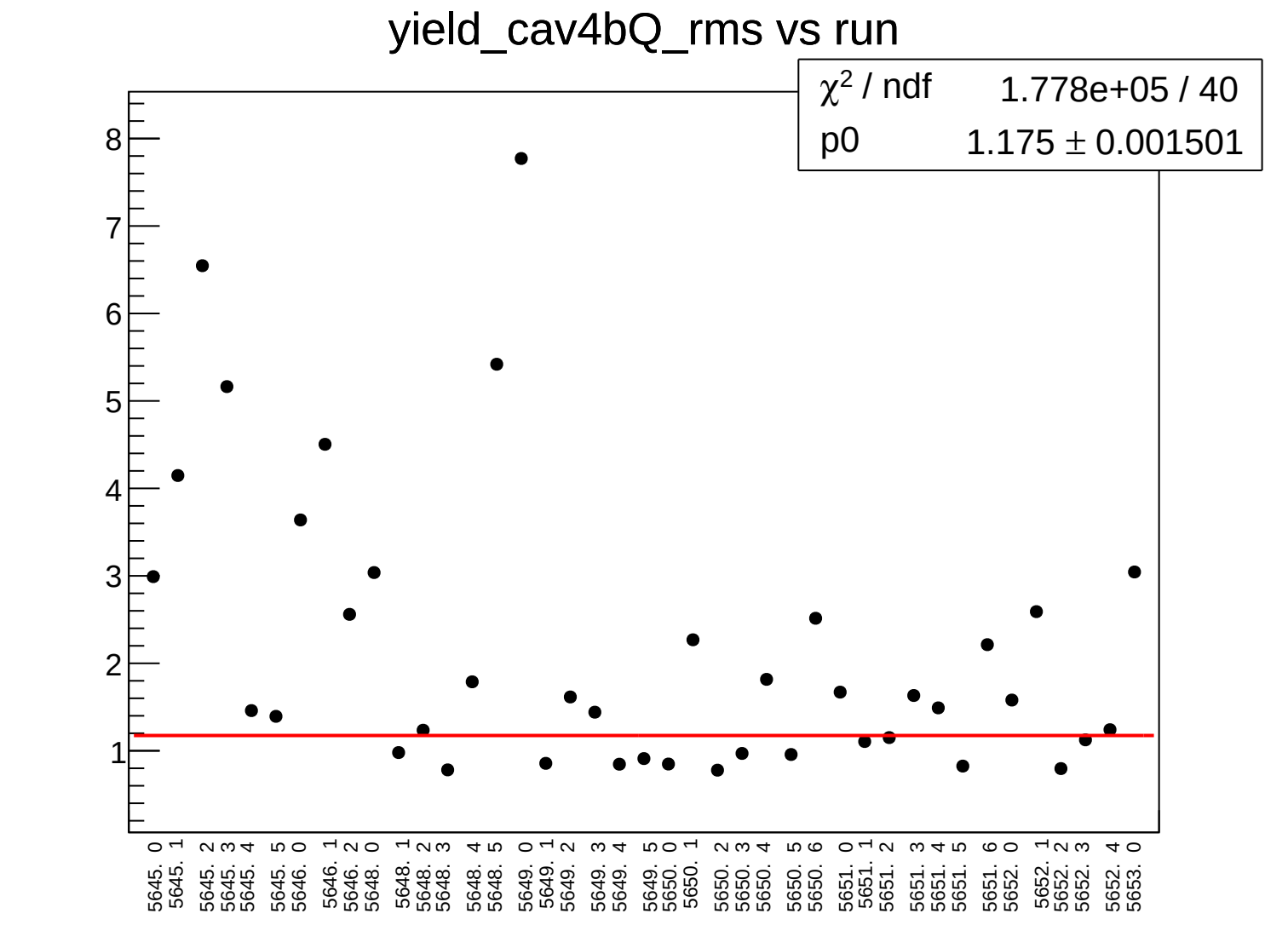

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.205e+06 / 40
p0 155.2 ± 0.0005815
156
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −145.4
Std Dev 0
200
0
−200
−400
−600

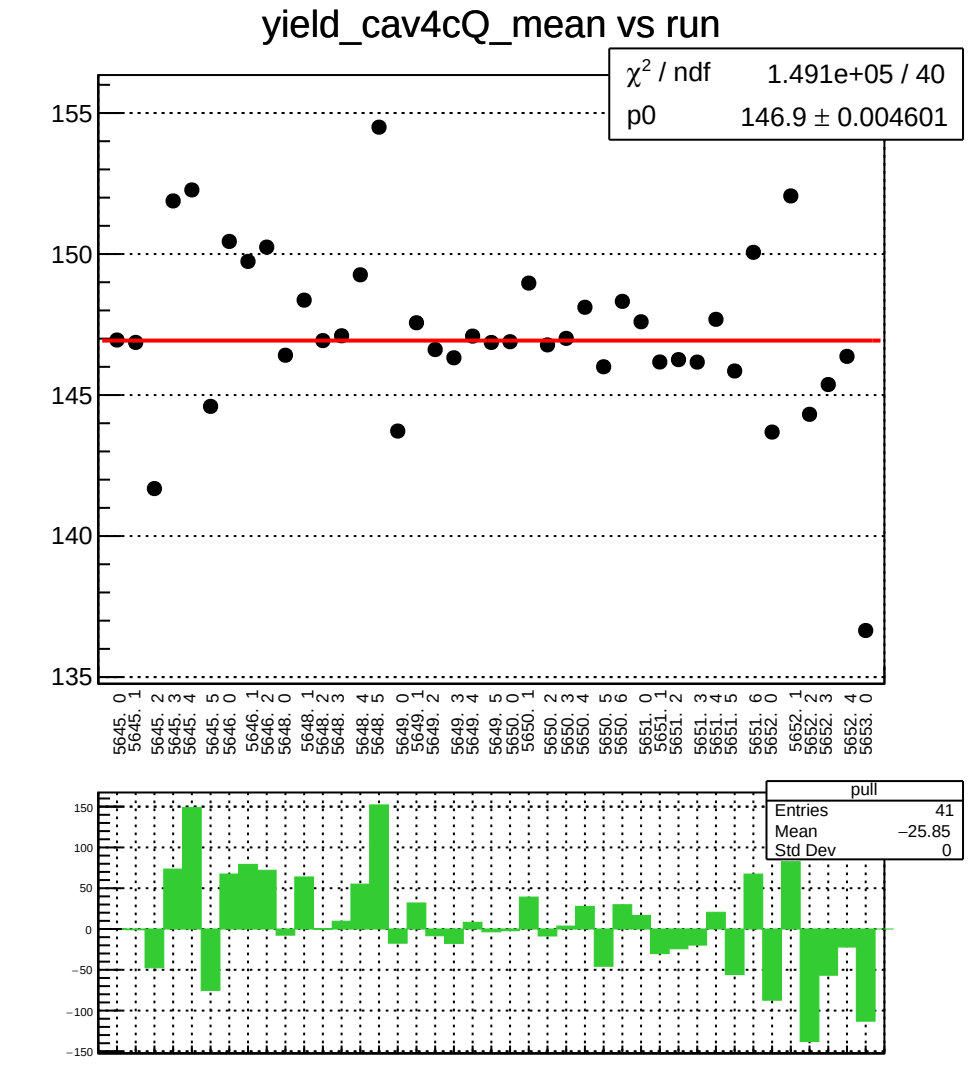

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

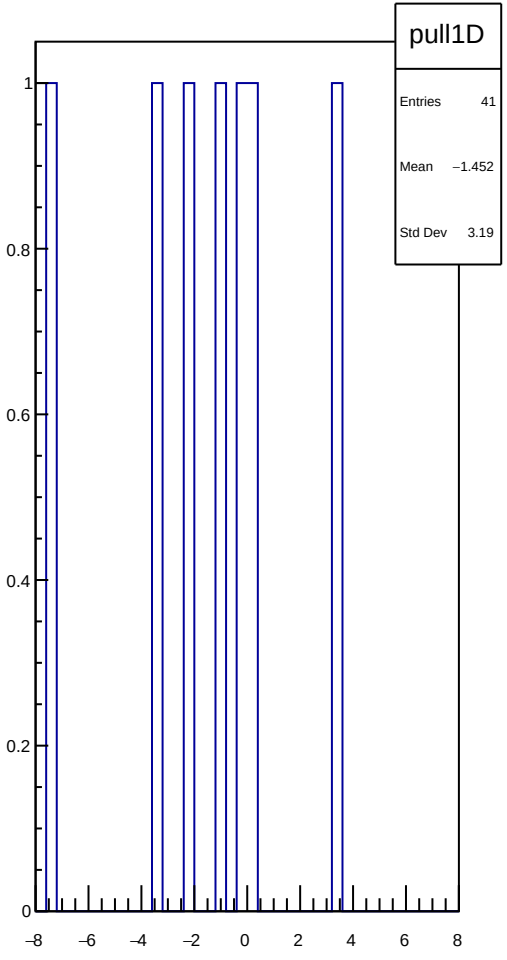

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.494e+04 / 40
p0 0.3526 ± 0.0004112
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

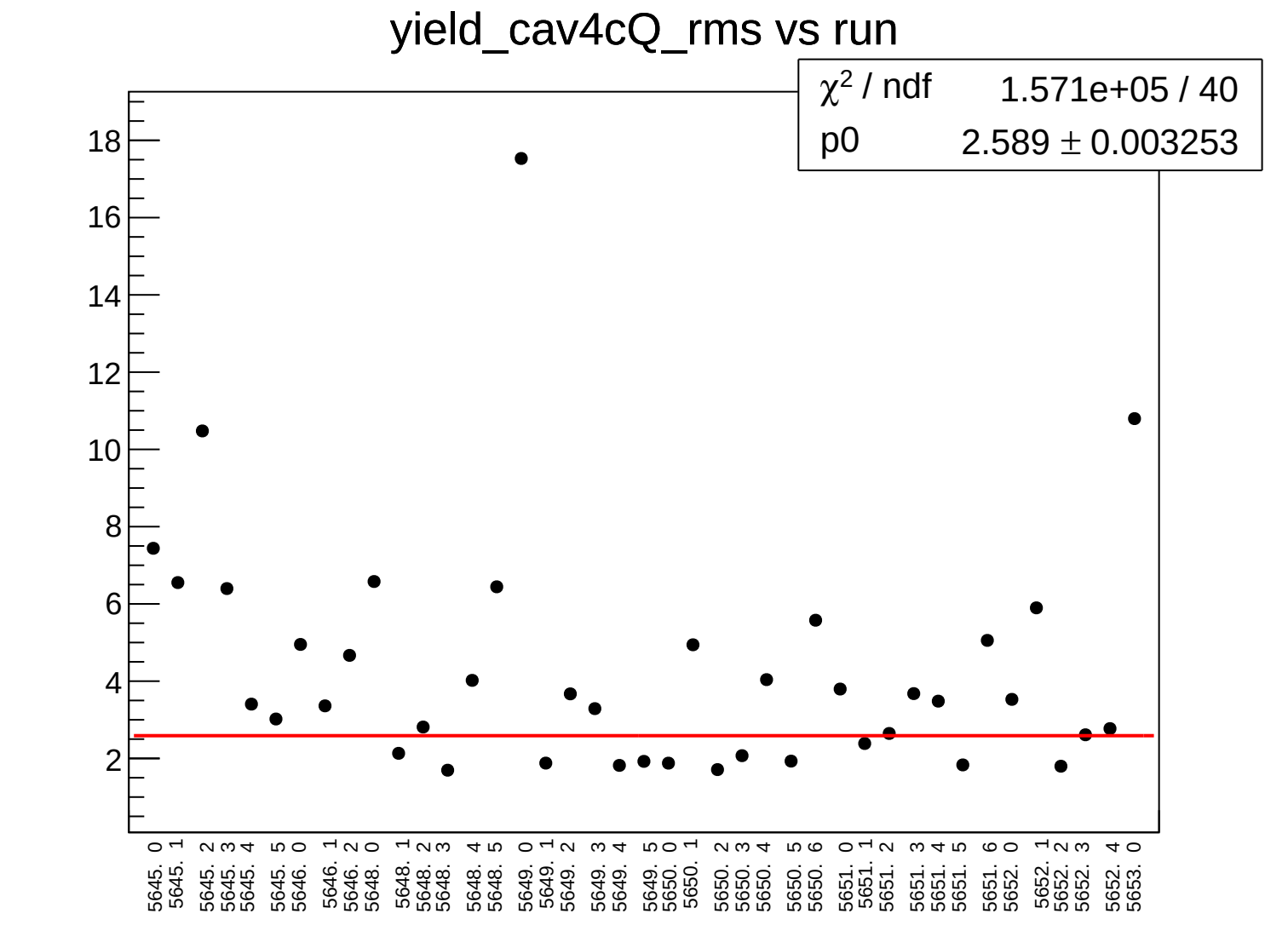

yield_cav4bQ_mean vs run
χ² / ndf 4.634e+05 / 40
p0 112.2 ± 0.002122
116
114
112
110
108
106
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −136.9
Std Dev 0
200
100
0
−100
−200
−300


pull1D
Entries 41
Mean 2.354
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4bQ_rms vs run
χ^2 / ndf 1.778e+05 / 40
p0 1.175 ± 0.001501
8
7
6
5
4
3
2
1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


yield_cav4cQ_mean vs run
χ² / ndf 1.491e+05 / 40
p0 146.9 ± 0.004601
155
150
145
140
135
pull
Entries 41
Mean −25.85
Std Dev 0
150
100
50
0
−50
−100
−150


pull1D
Entries 41
Mean −1.452
Std Dev 3.19
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 1.571e+05 / 40
p0 2.589 ± 0.003253
18
16
14
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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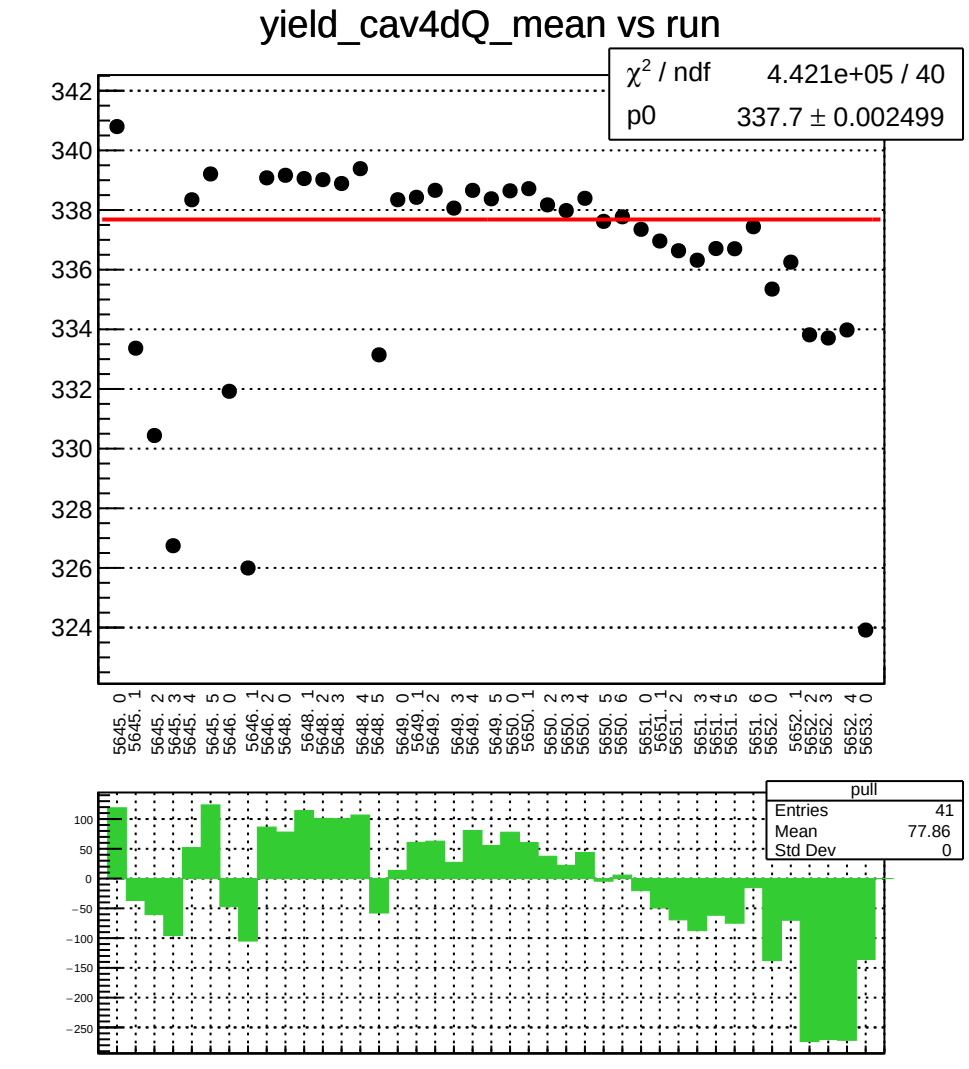
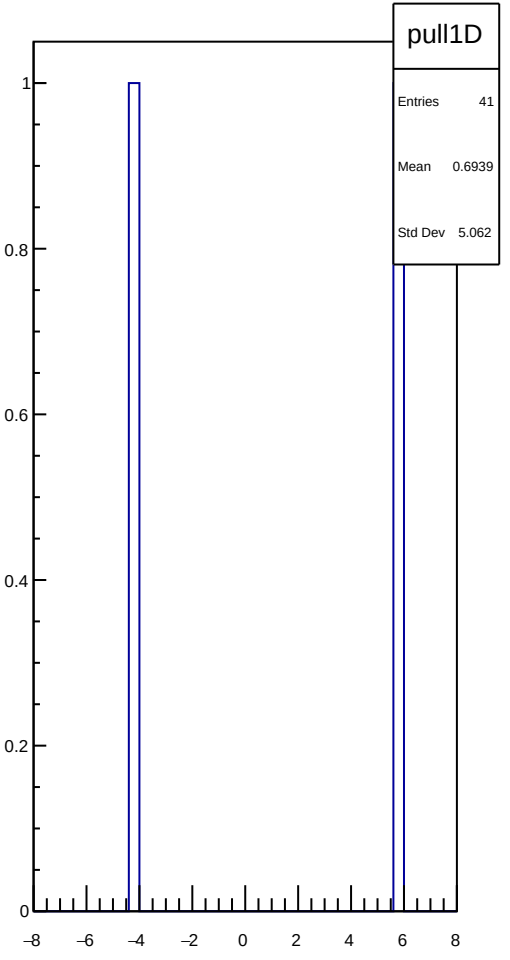
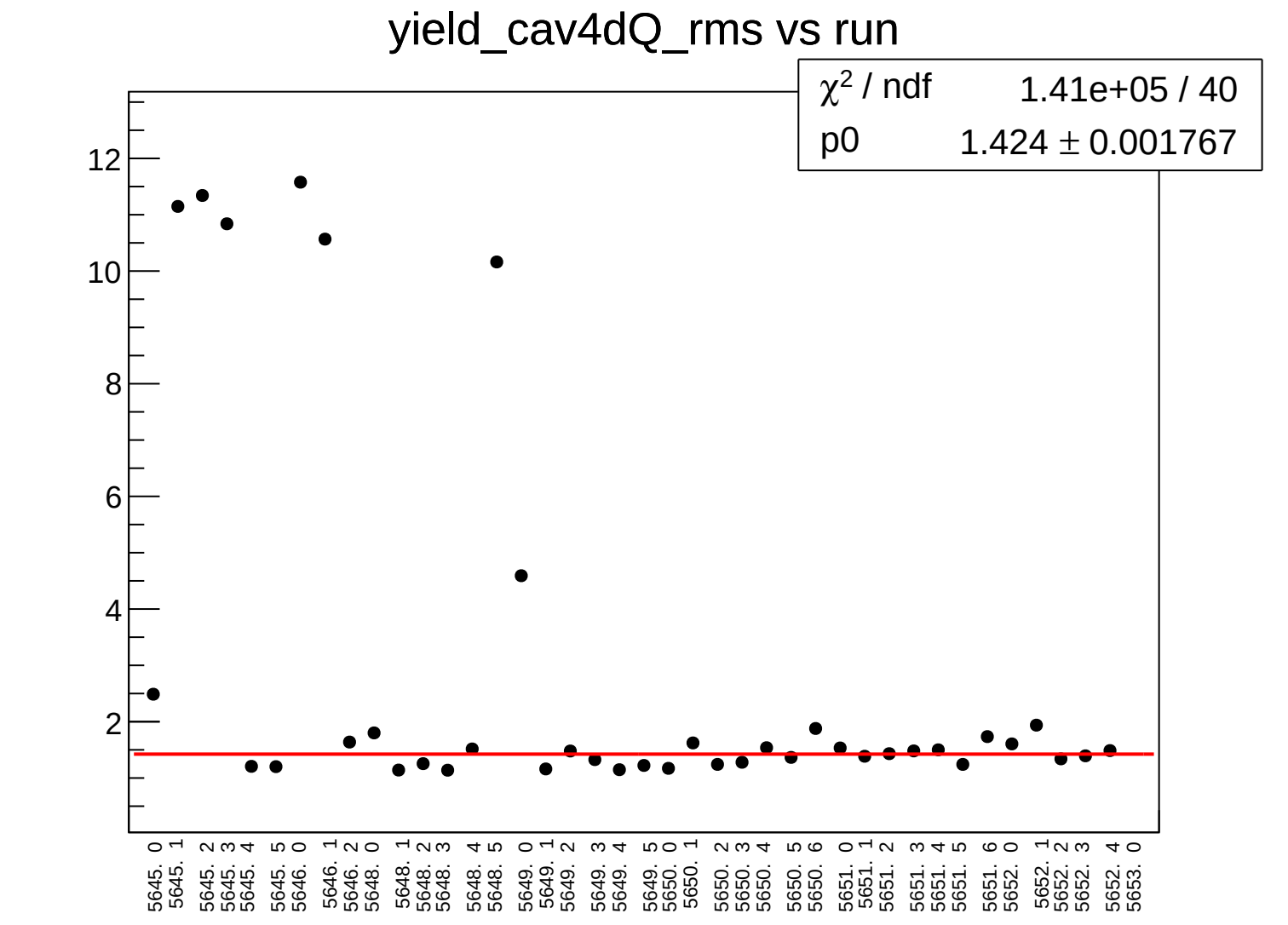
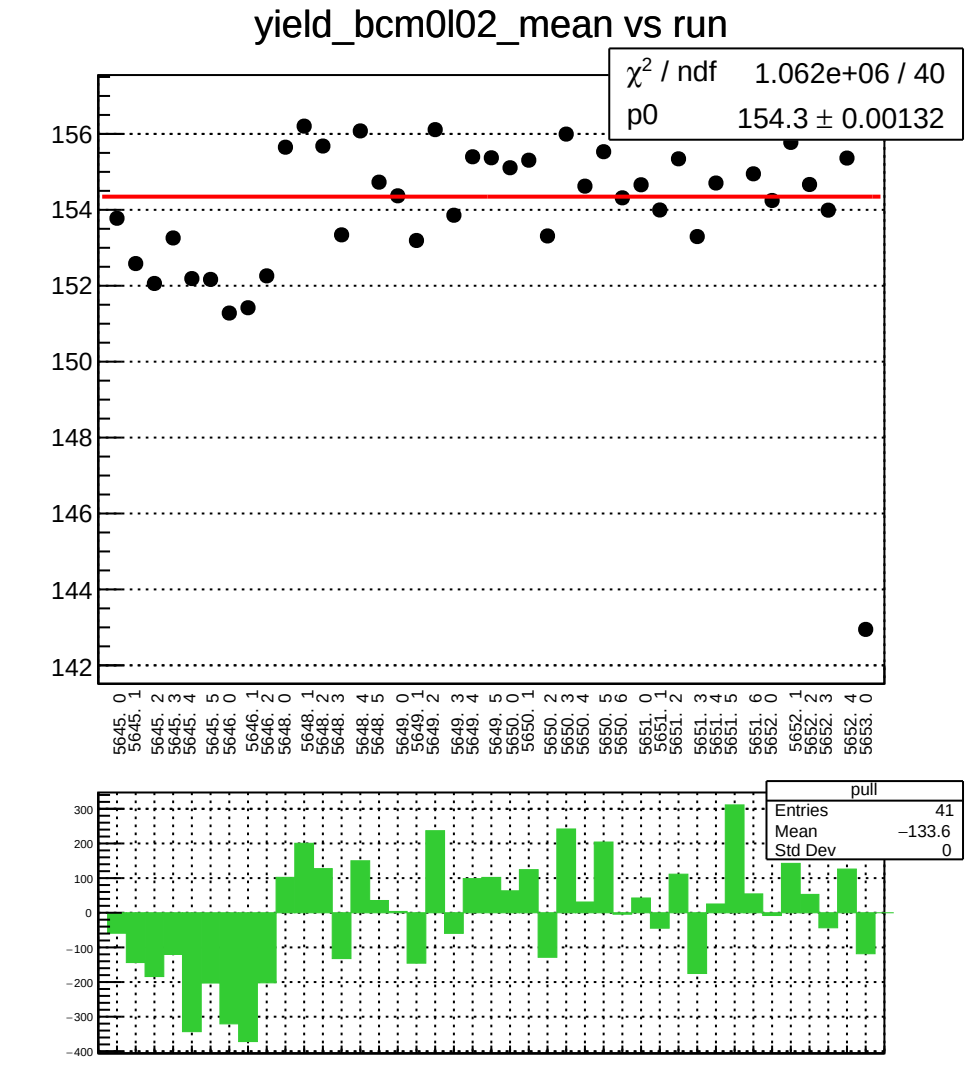
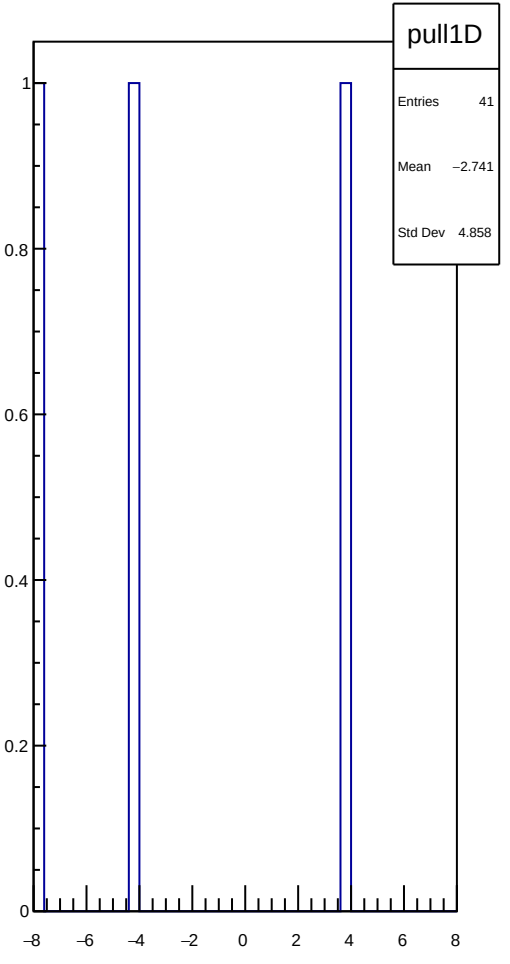
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

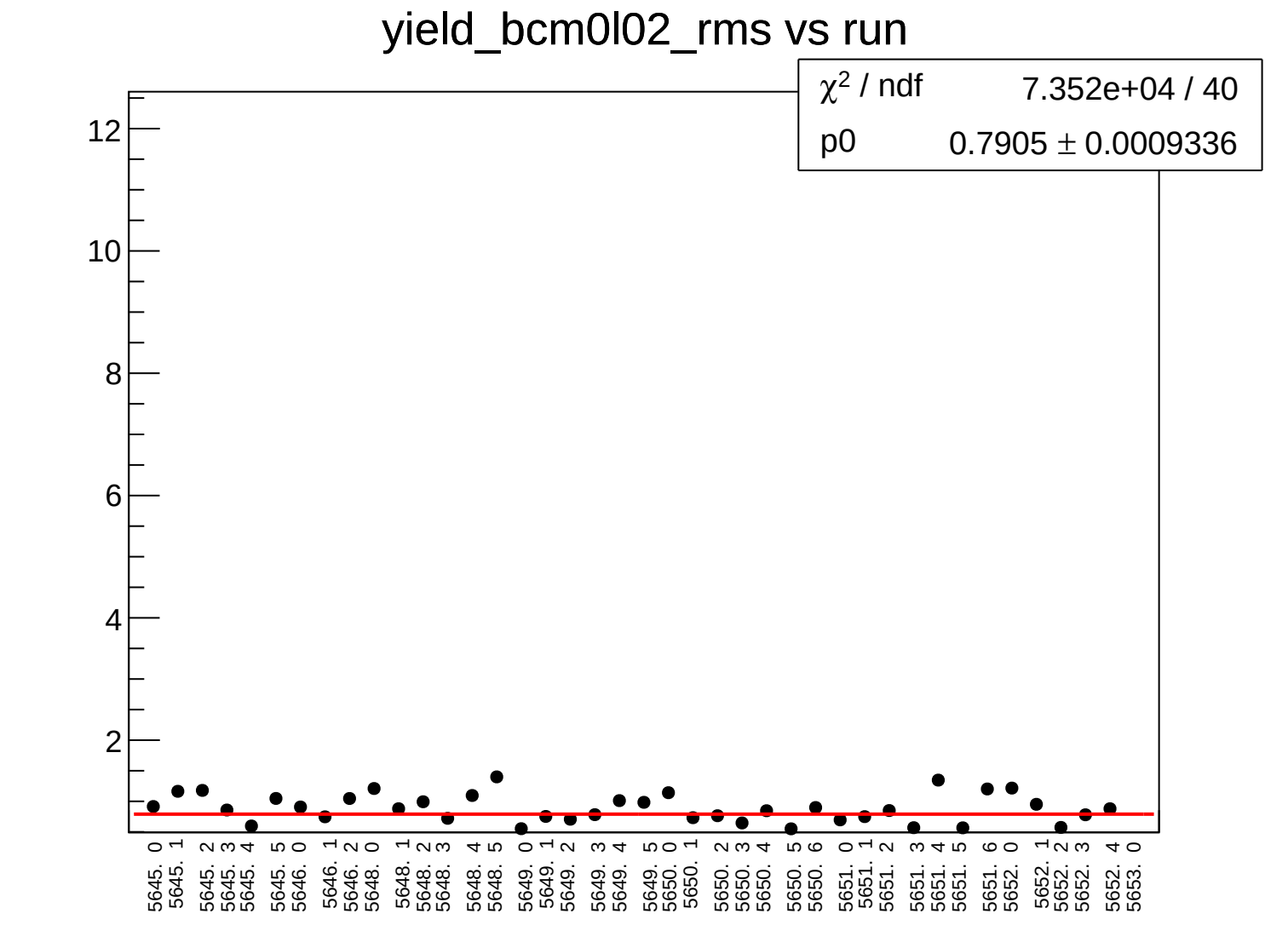

yield_cav4dQ_mean vs run
χ² / ndf 4.421e+05 / 40
p0 337.7 ± 0.002499
342
340
338
336
334
332
330
328
326
324
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 77.86
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

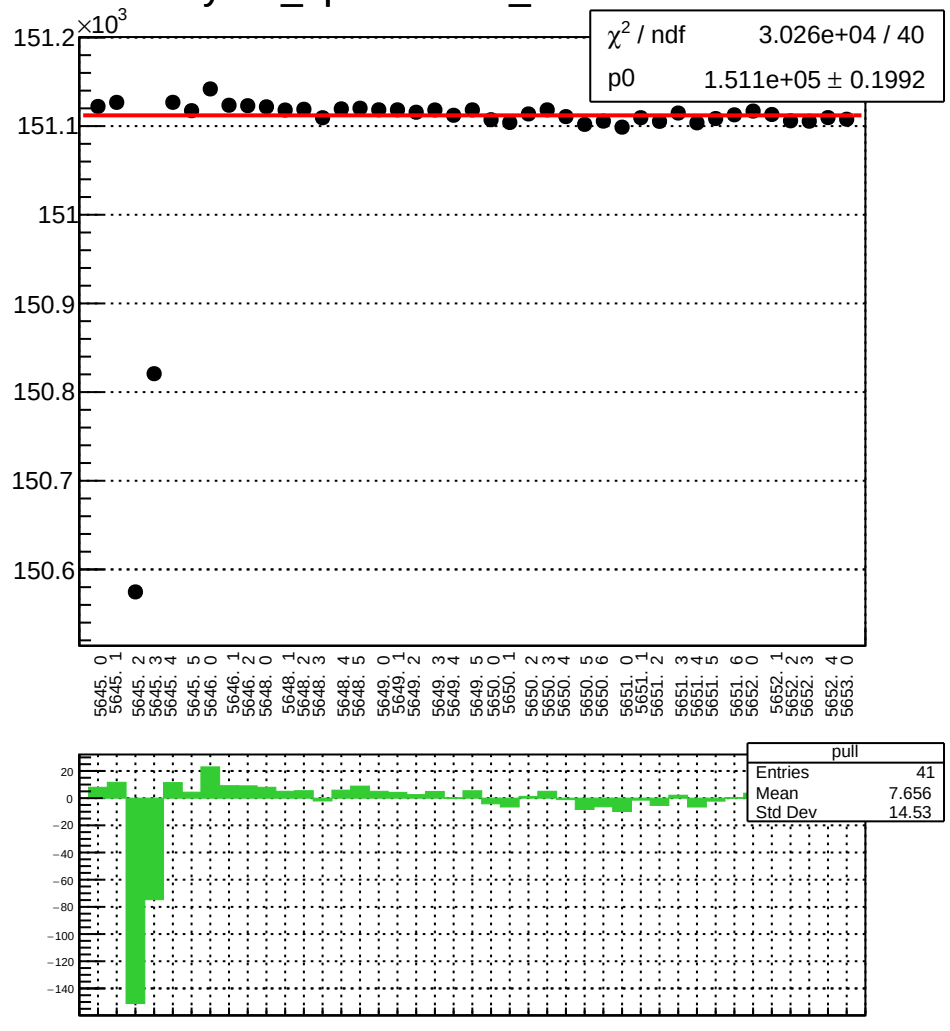

pull1D
Entries 41
Mean 0.6939
Std Dev 5.062
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

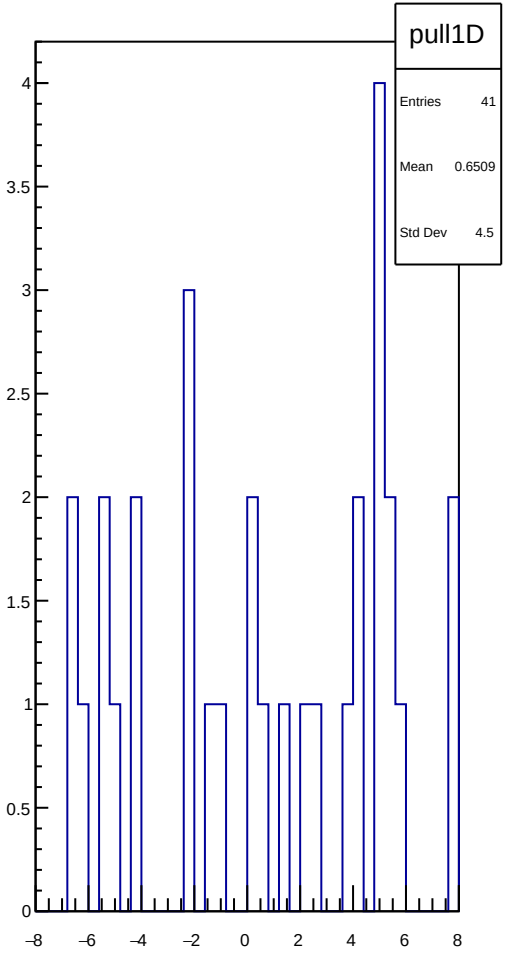

yield_cav4dQ_rms vs run
χ² / ndf 1.41e+05 / 40
p0 1.424 ± 0.001767
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

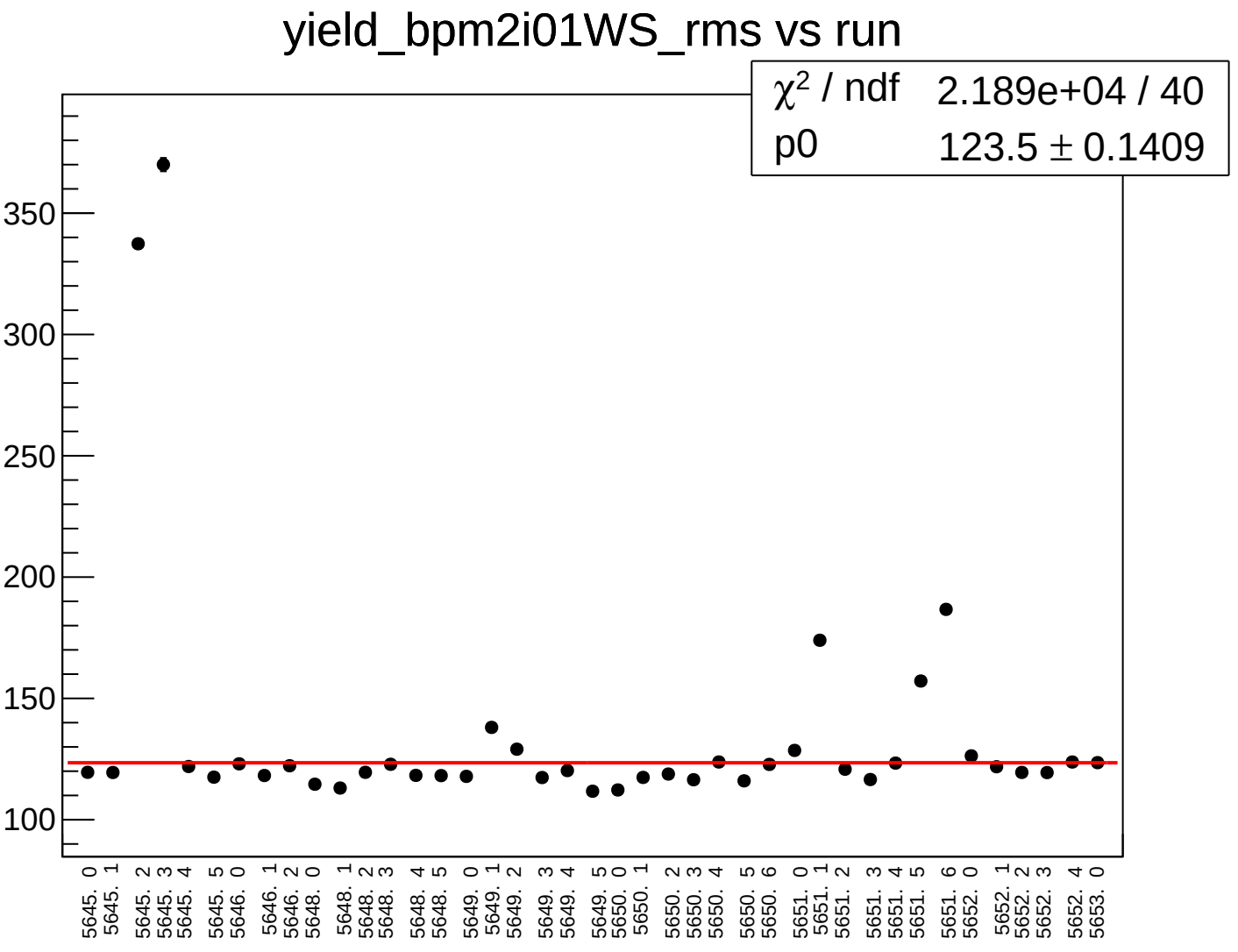

yield_bcm0l02_mean vs run
χ² / ndf 1.062e+06 / 40
p0 154.3 ± 0.00132
156
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −133.6
Std Dev 0
300
200
100
0
−100
−200
−300
−400

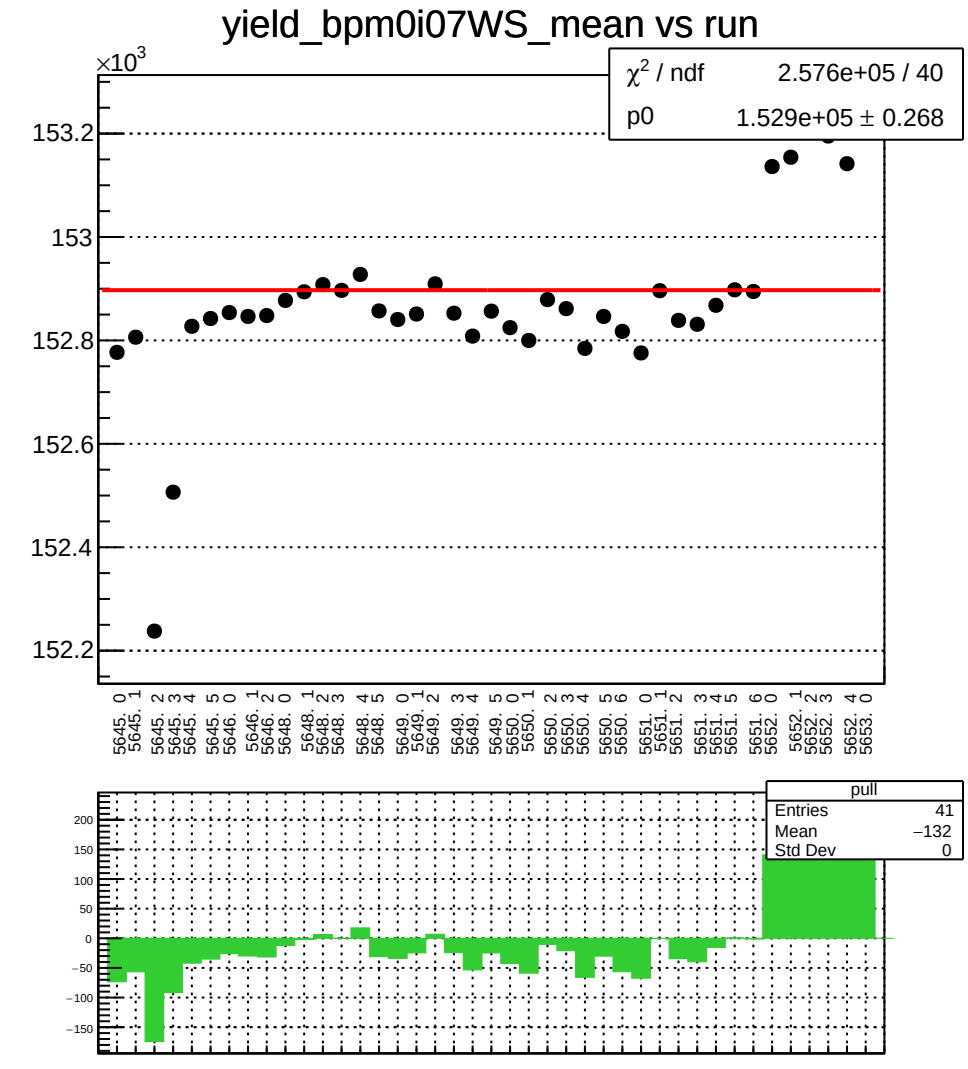

pull1D
Entries 41
Mean −2.741
Std Dev 4.858
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

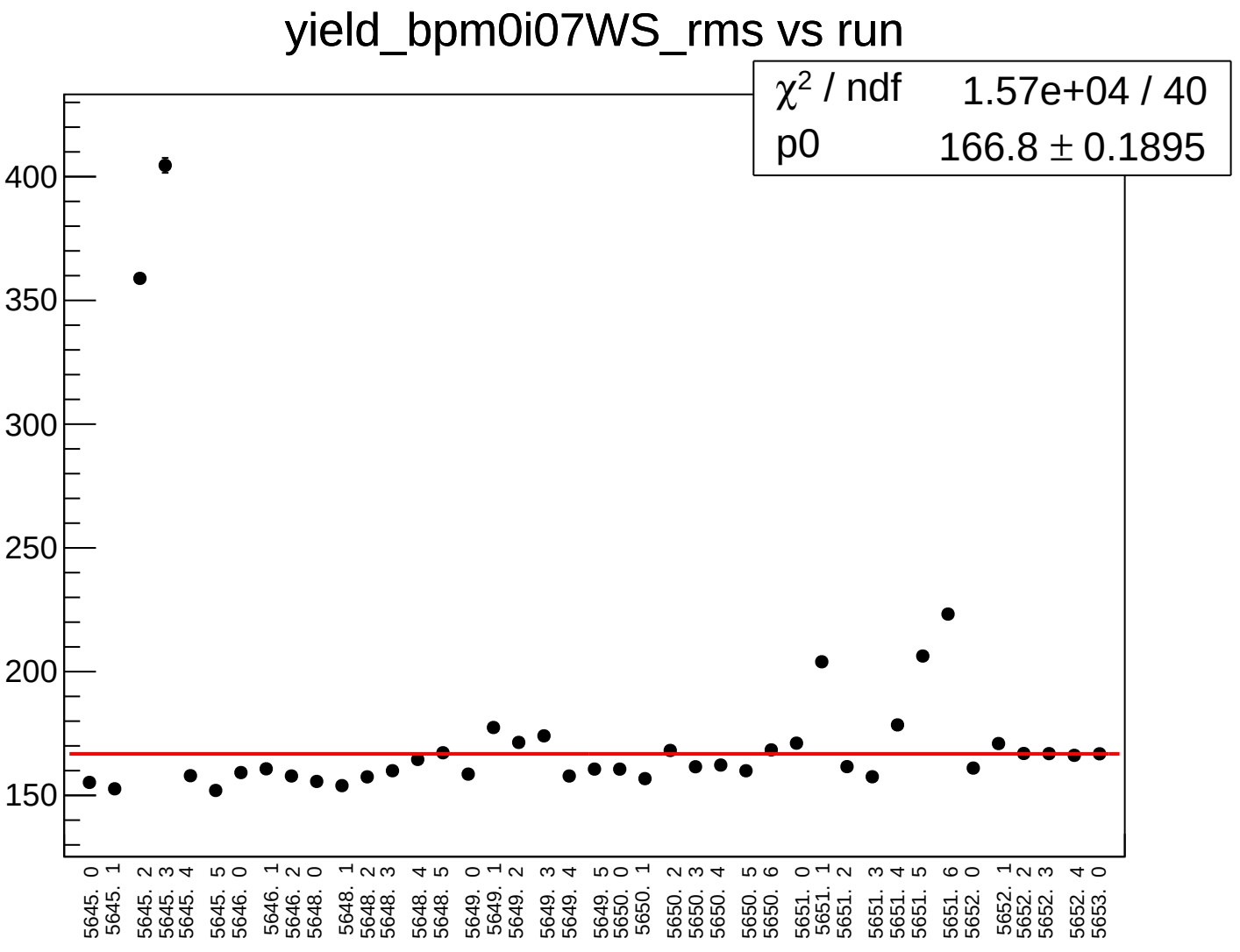

yield_bcm0l02_rms vs run
χ² / ndf 7.352e+04 / 40
p0 0.7905 ± 0.0009336
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

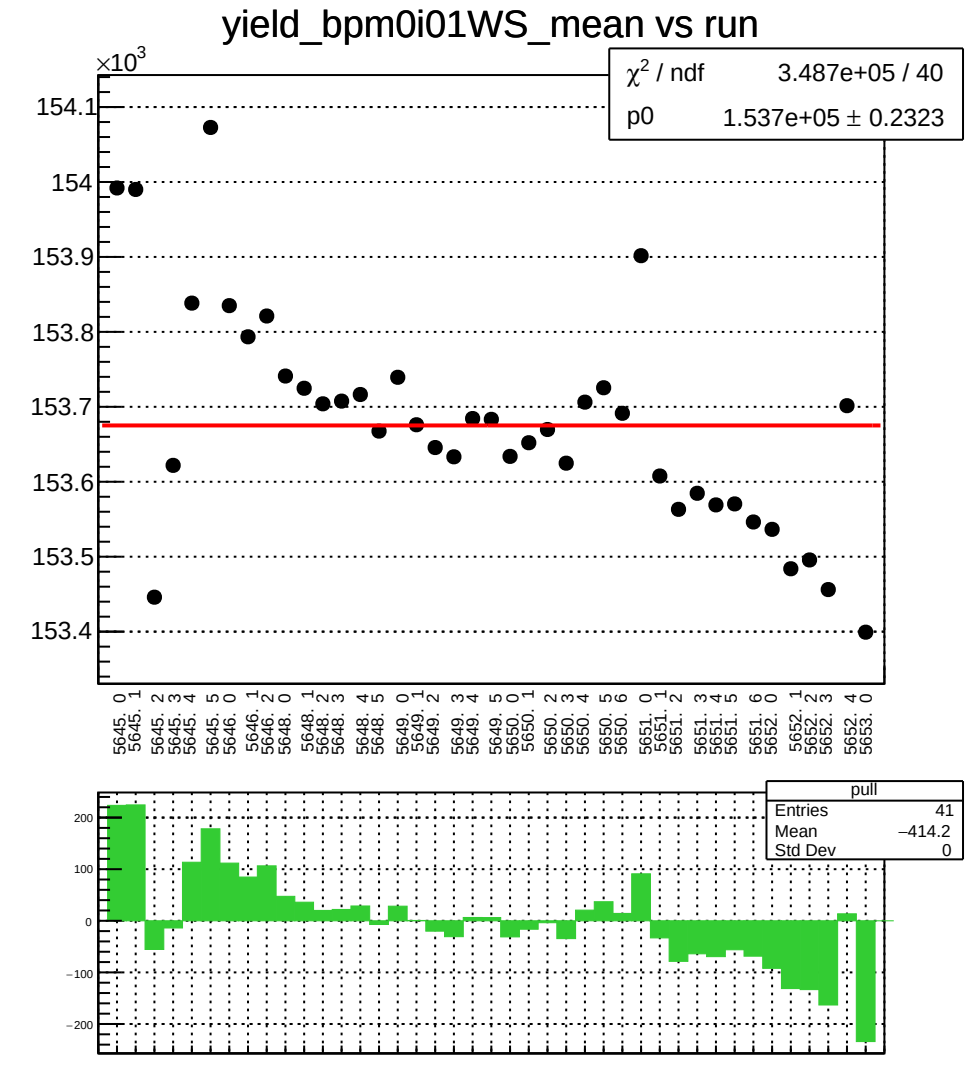

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.026e+04 / 40
p0 1.511e+05 ± 0.1992
151.2
151.1
151
150.9
150.8
150.7
150.6
pull
Entries 41
Mean 7.656
Std Dev 14.53

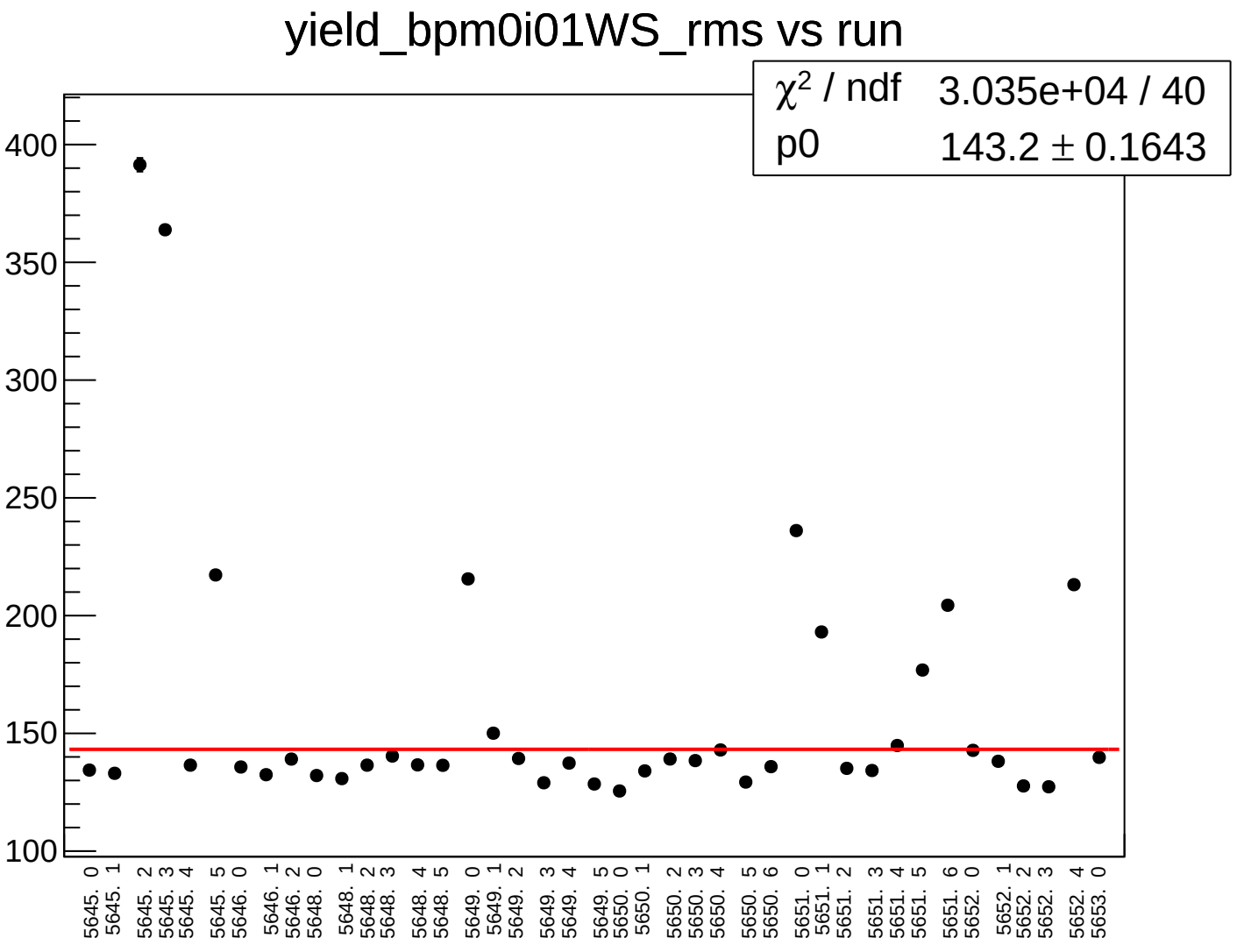

pull1D
Entries 41
Mean 0.6509
Std Dev 4.5

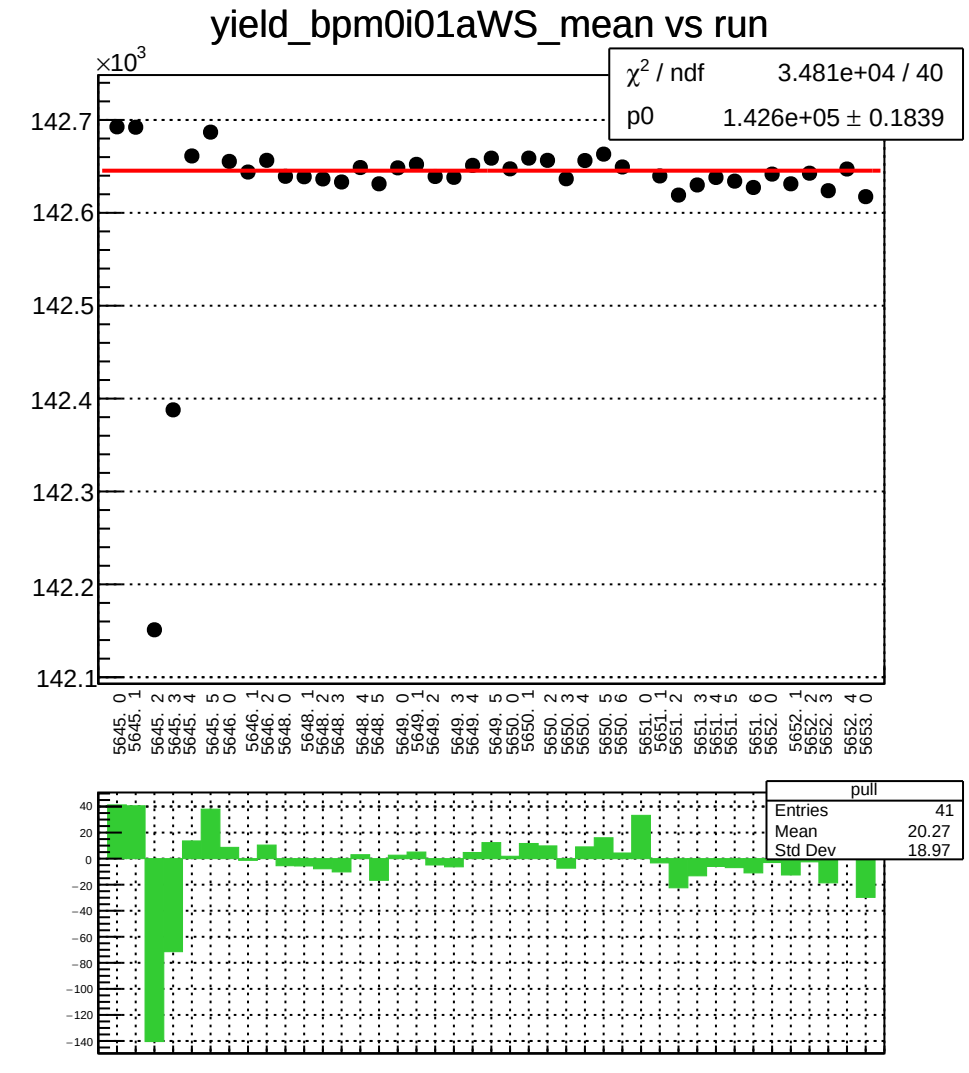

yield_bpm2i01WS_rms vs run
χ² / ndf 2.189e+04 / 40
p0 123.5 ± 0.1409
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

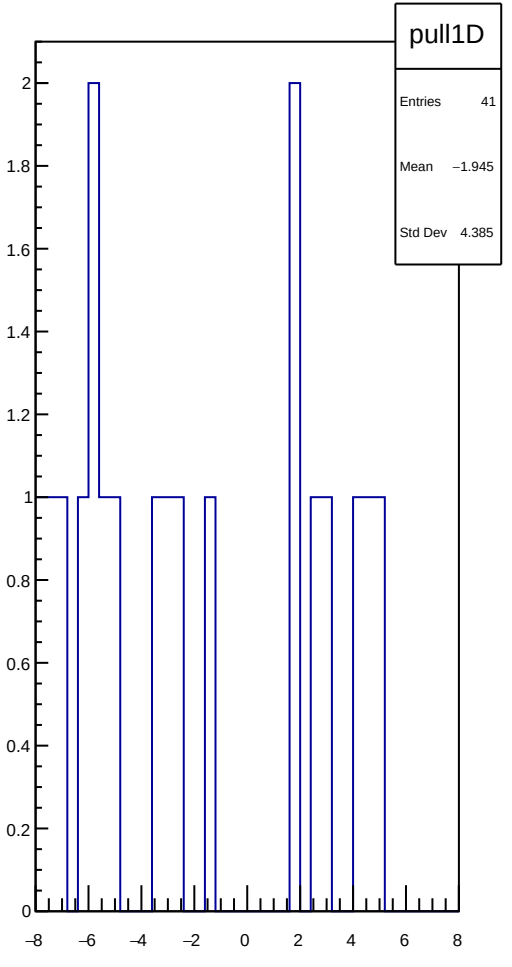

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.576e+05 / 40
p0 1.529e+05 ± 0.268
153.2
153
152.8
152.6
152.4
152.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −132
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 41
Mean 1.406
Std Dev 3.373
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

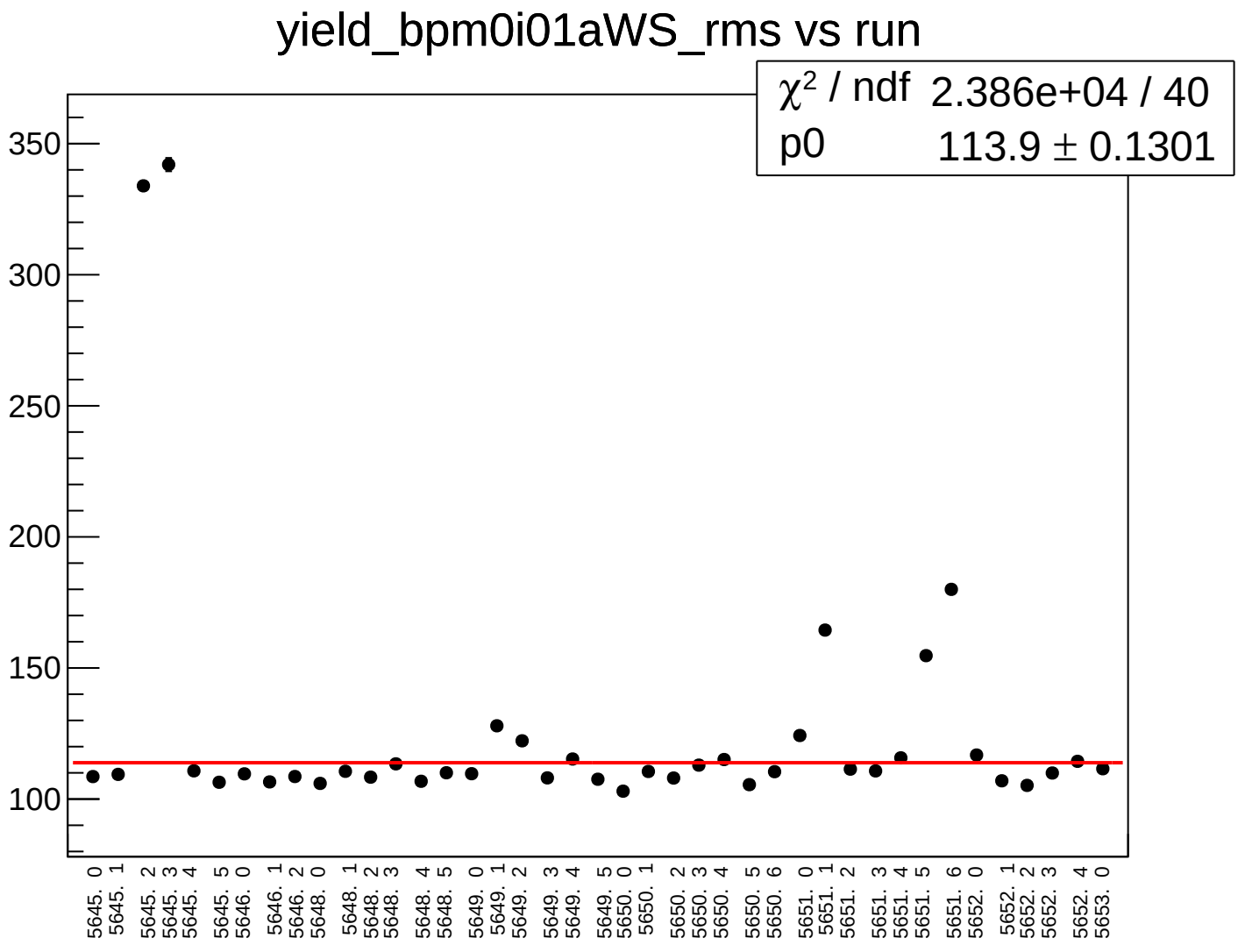

yield_bpm0i07WS_rms vs run
χ² / ndf 1.57e+04 / 40
p0 166.8 ± 0.1895
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

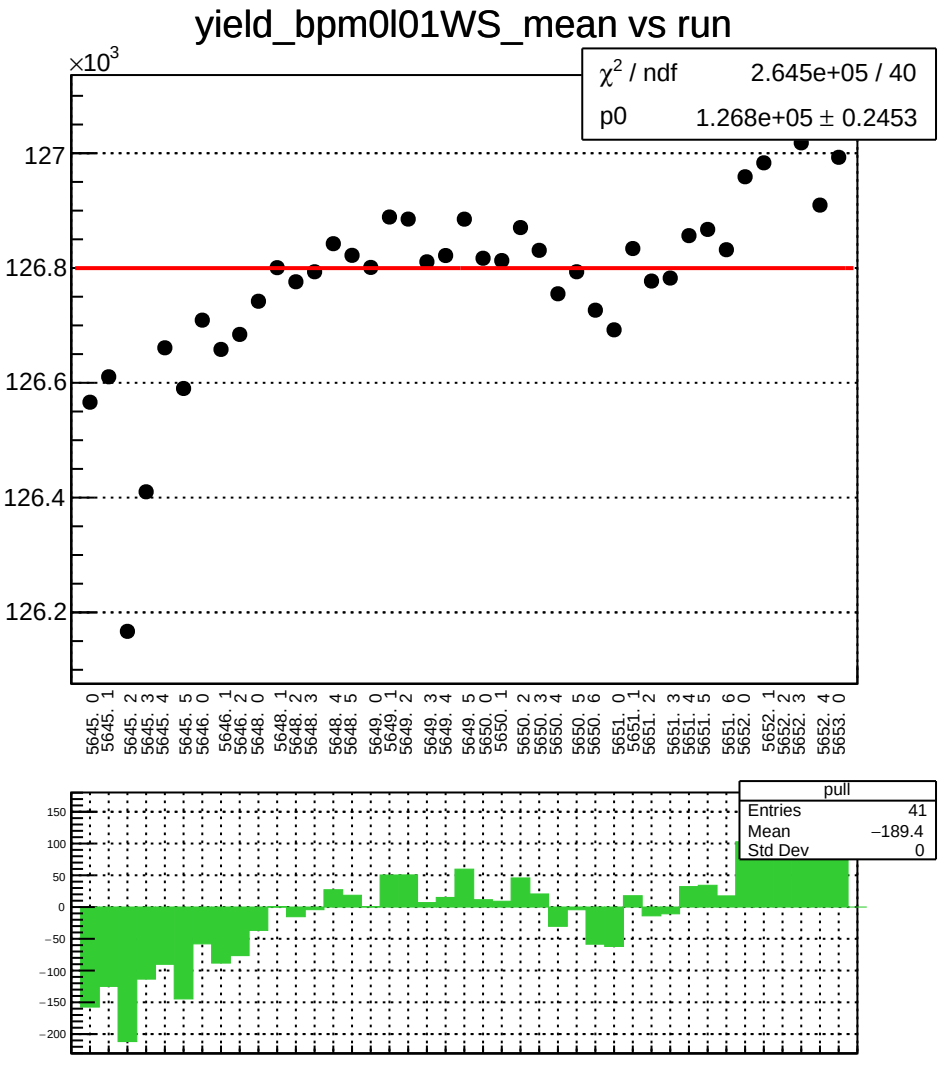

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 3.487e+05 / 40
p0 1.537e+05 ± 0.2323
154.1
154
153.9
153.8
153.7
153.6
153.5
153.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −414.2
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 41
Mean 0.4721
Std Dev 5.35
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

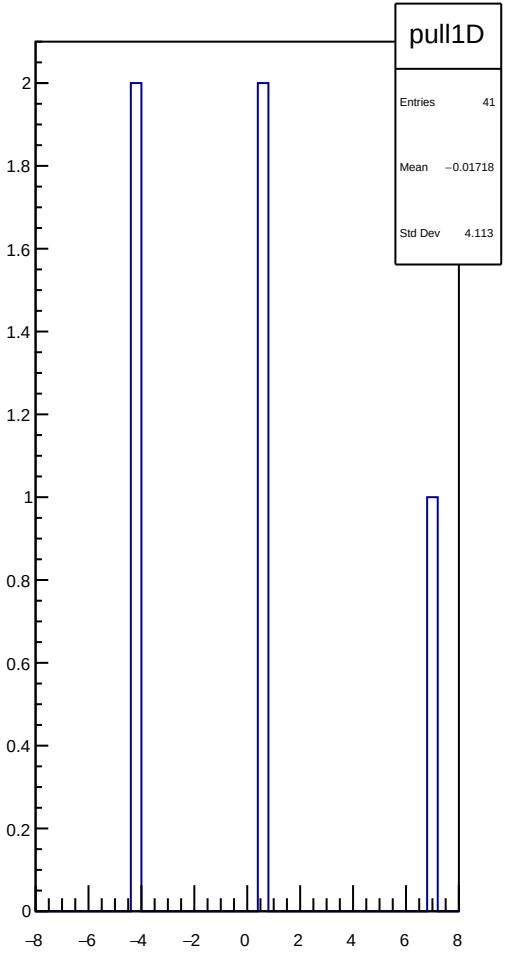

yield_bpm0i01WS_rms vs run
χ² / ndf 3.035e+04 / 40
p0 143.2 ± 0.1643
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

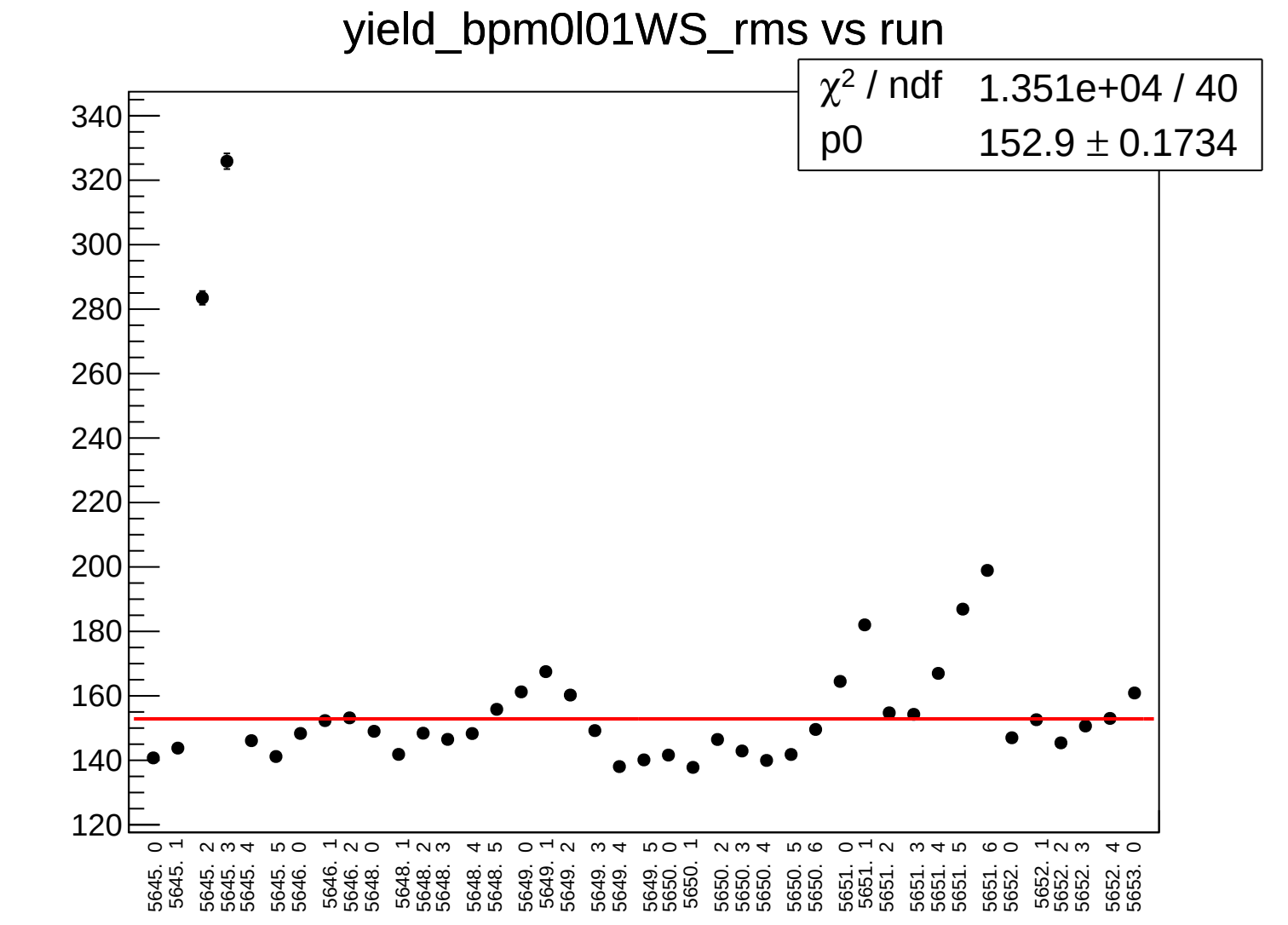

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.481e+04 / 40
p0 1.426e+05 ± 0.1839
142.7
142.6
142.5
142.4
142.3
142.2
142.1
pull
Entries 41
Mean 20.27
Std Dev 18.97
40
20
0
−20
−40
−60
−80
−100
−120
−140

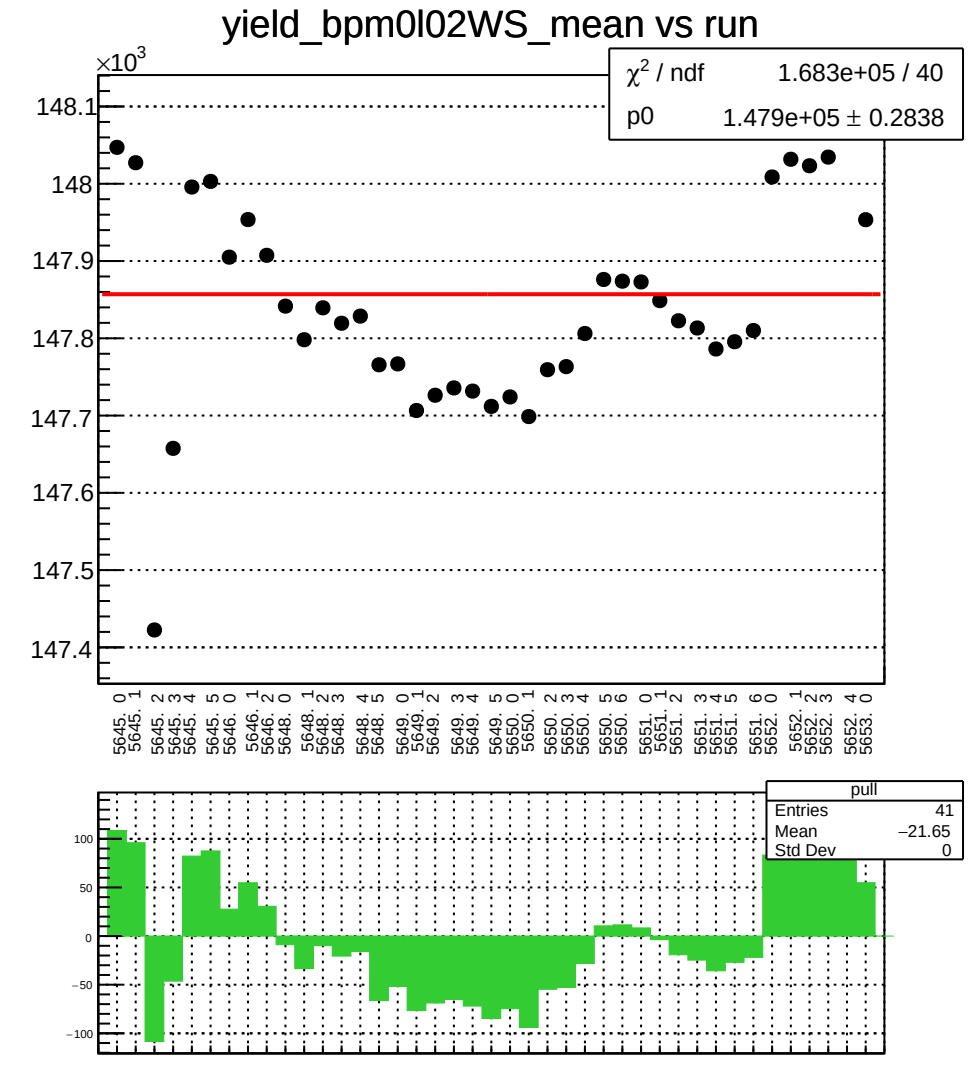

pull1D
Entries 41
Mean −1.945
Std Dev 4.385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

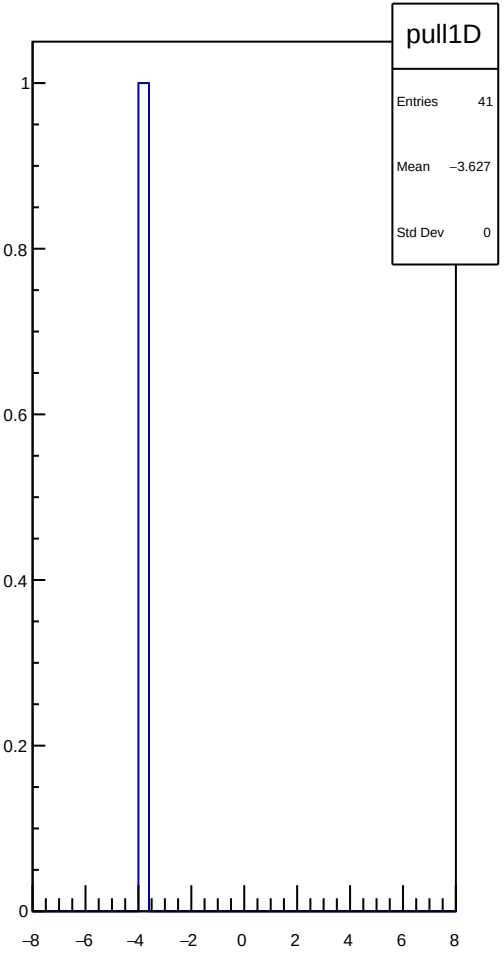

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.386e+04 / 40
p0 113.9 ± 0.1301
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

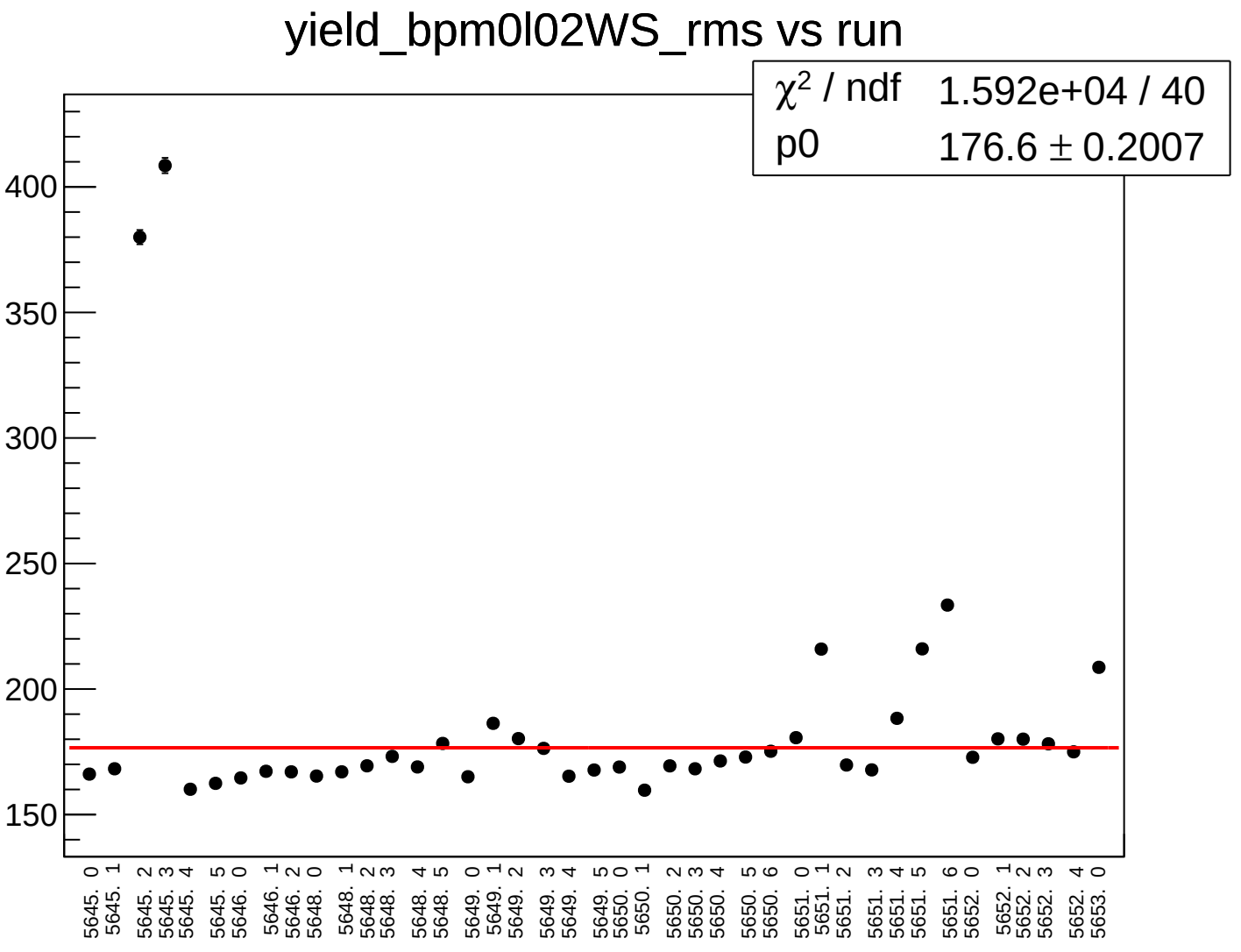

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.645e+05 / 40
p0 1.268e+05 ± 0.2453
127
126.8
126.6
126.4
126.2
pull
Entries 41
Mean −189.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200

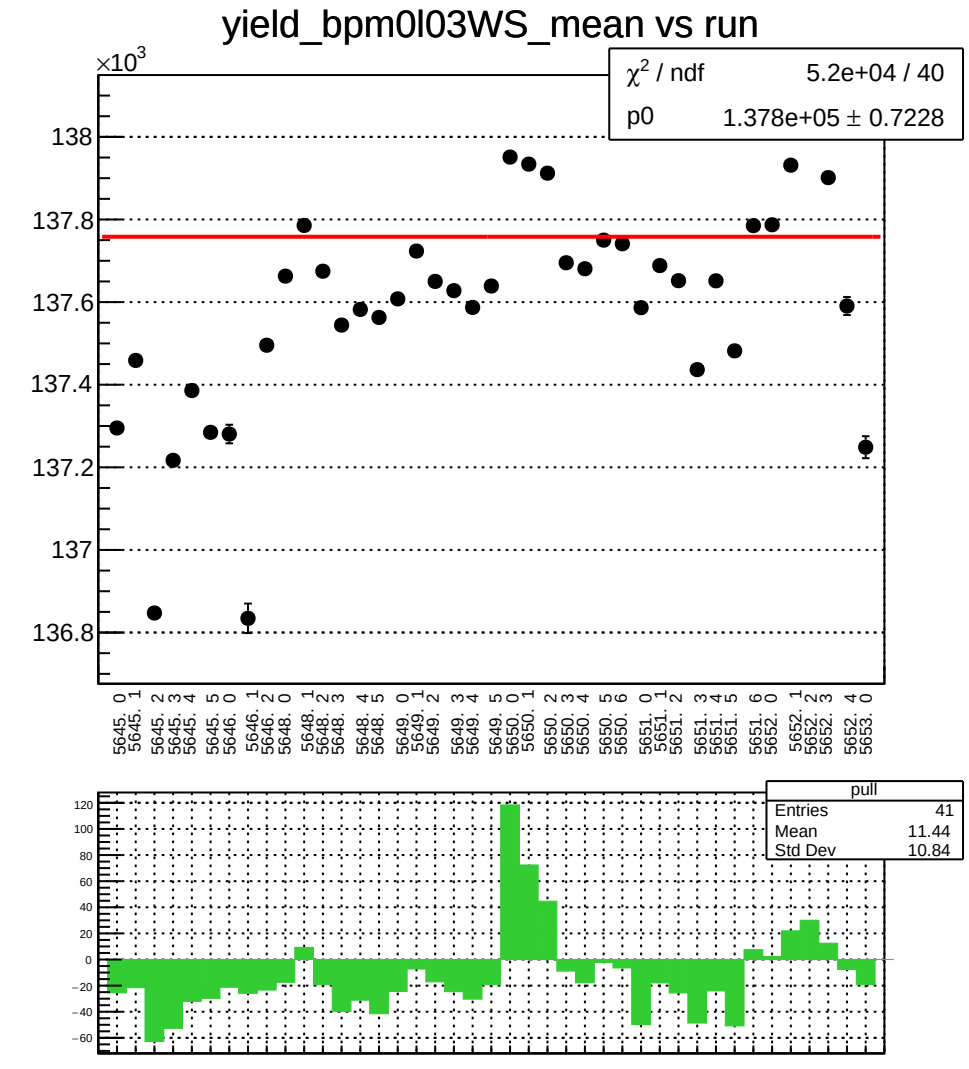

pull1D
Entries 41
Mean −0.01718
Std Dev 4.113
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

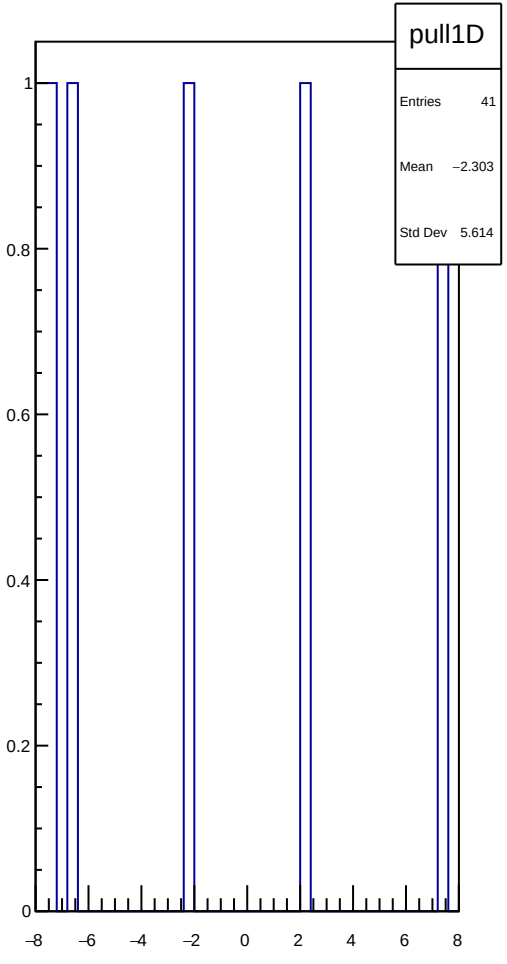

yield_bpm0l01WS_rms vs run
χ² / ndf 1.351e+04 / 40
p0 152.9 ± 0.1734
340
320
300
280
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

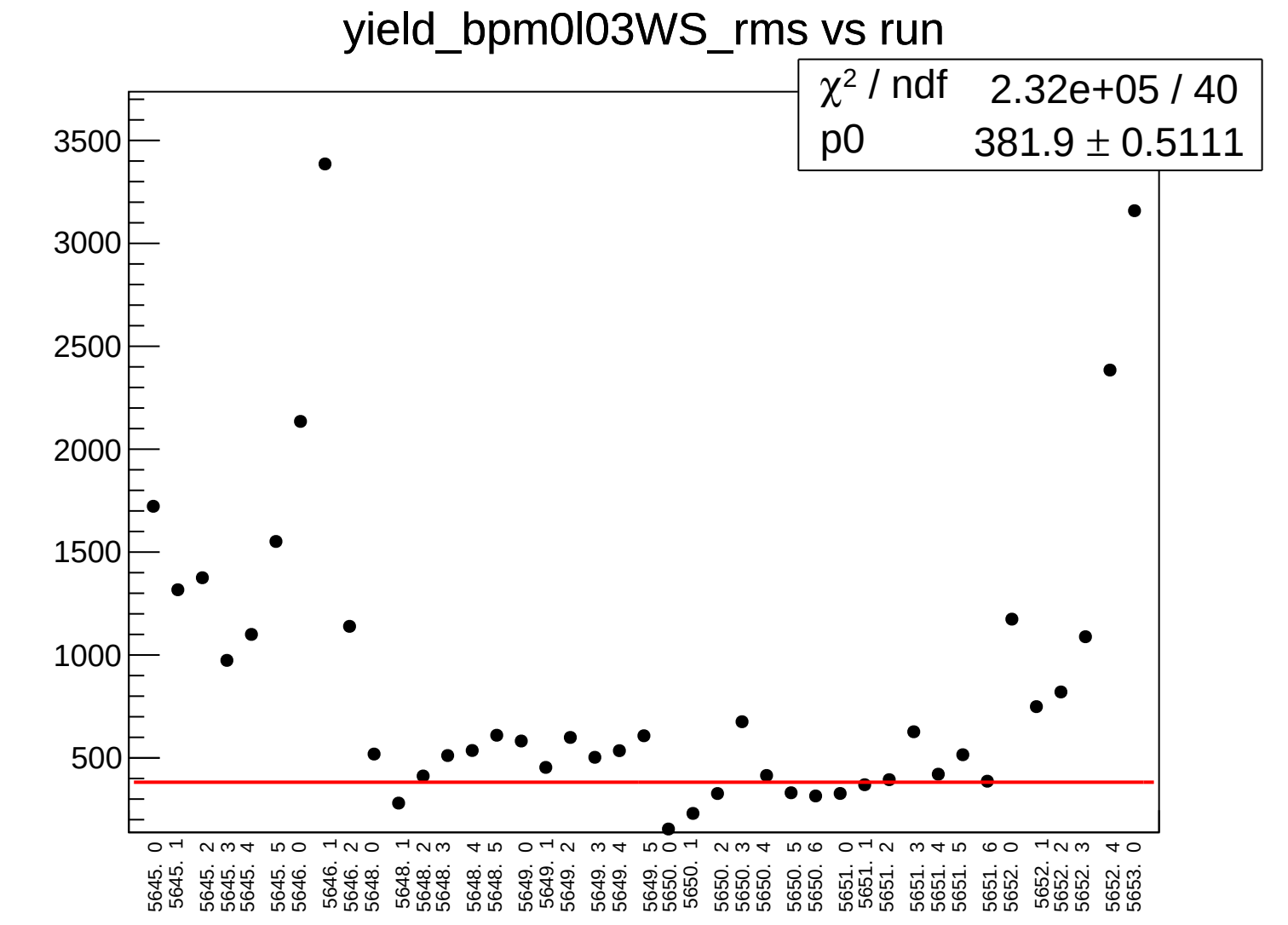

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 1.683e+05 / 40
p0 1.479e+05 ± 0.2838
148.1
148
147.9
147.8
147.7
147.6
147.5
147.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −21.65
Std Dev 0
100
50
0
−50
−100

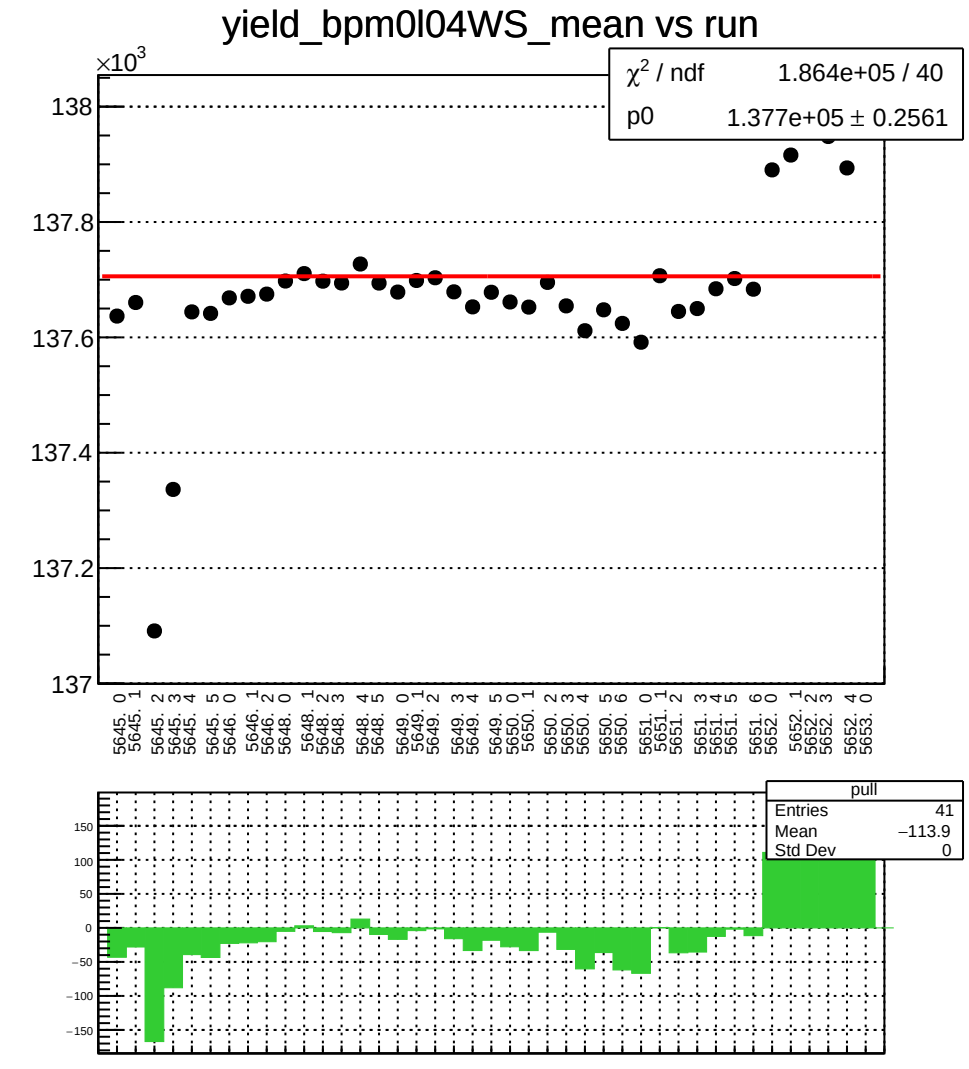

pull1D
Entries 41
Mean −3.627
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

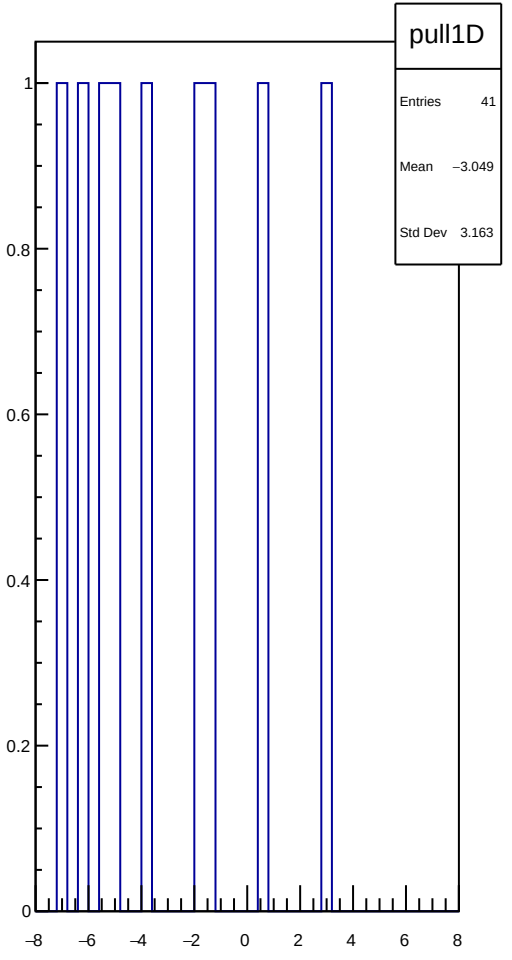

yield_bpm0l02WS_rms vs run
χ² / ndf 1.592e+04 / 40
p0 176.6 ± 0.2007
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

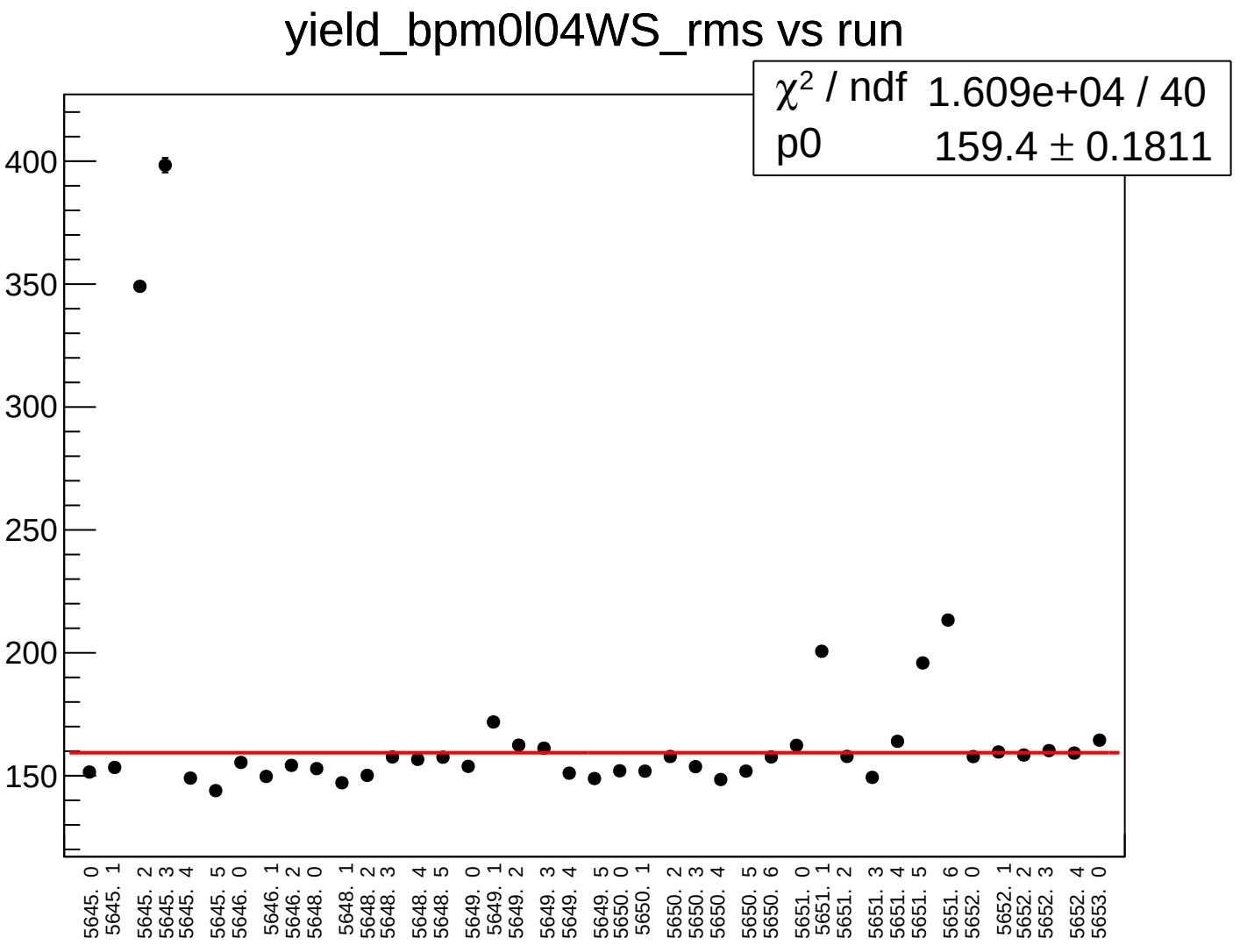

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 5.2e+04 / 40
p0 1.378e+05 ± 0.7228
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 41
Mean 11.44
Std Dev 10.84
120
100
80
60
40
20
0
−20
−40
−60

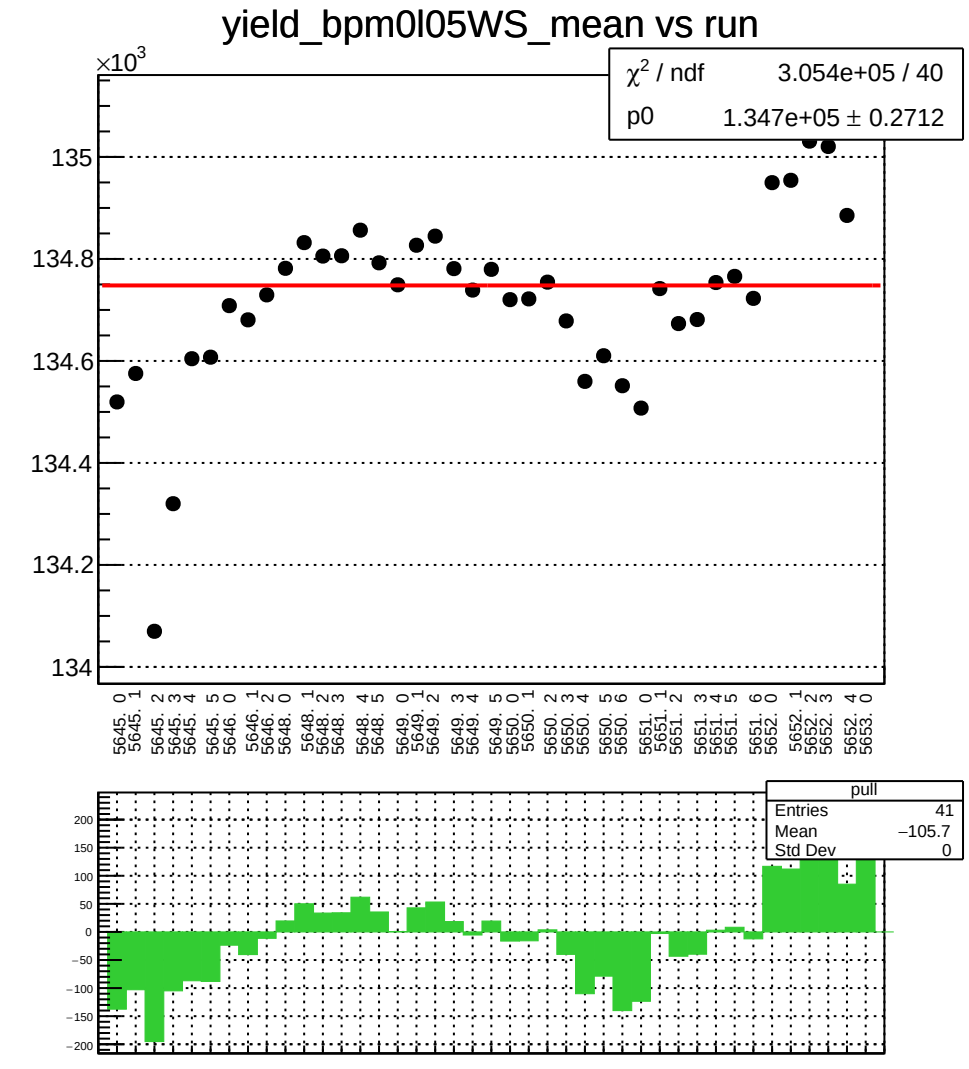

pull1D
Entries 41
Mean −2.303
Std Dev 5.614
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

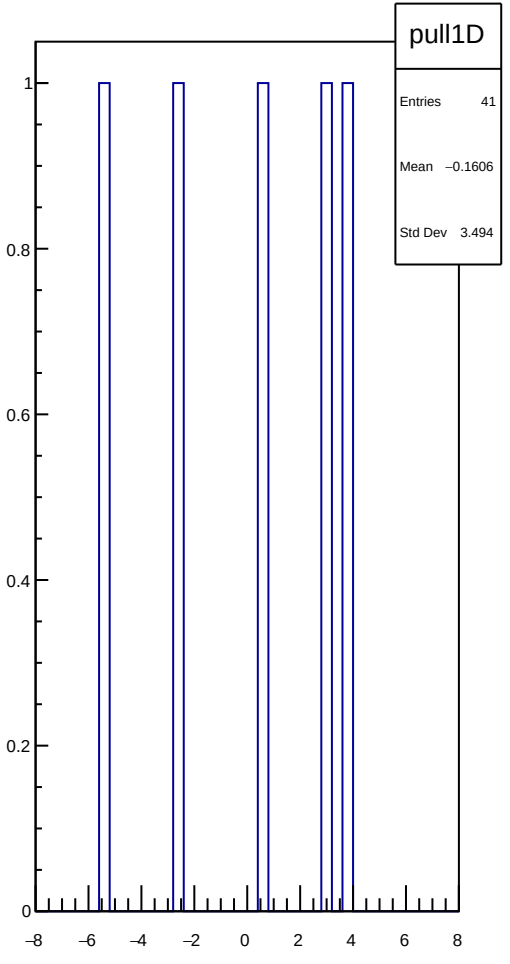

yield_bpm0l03WS_rms vs run
χ² / ndf 2.32e+05 / 40
p0 381.9 ± 0.5111
3500
3000
2500
2000
1500
1000
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

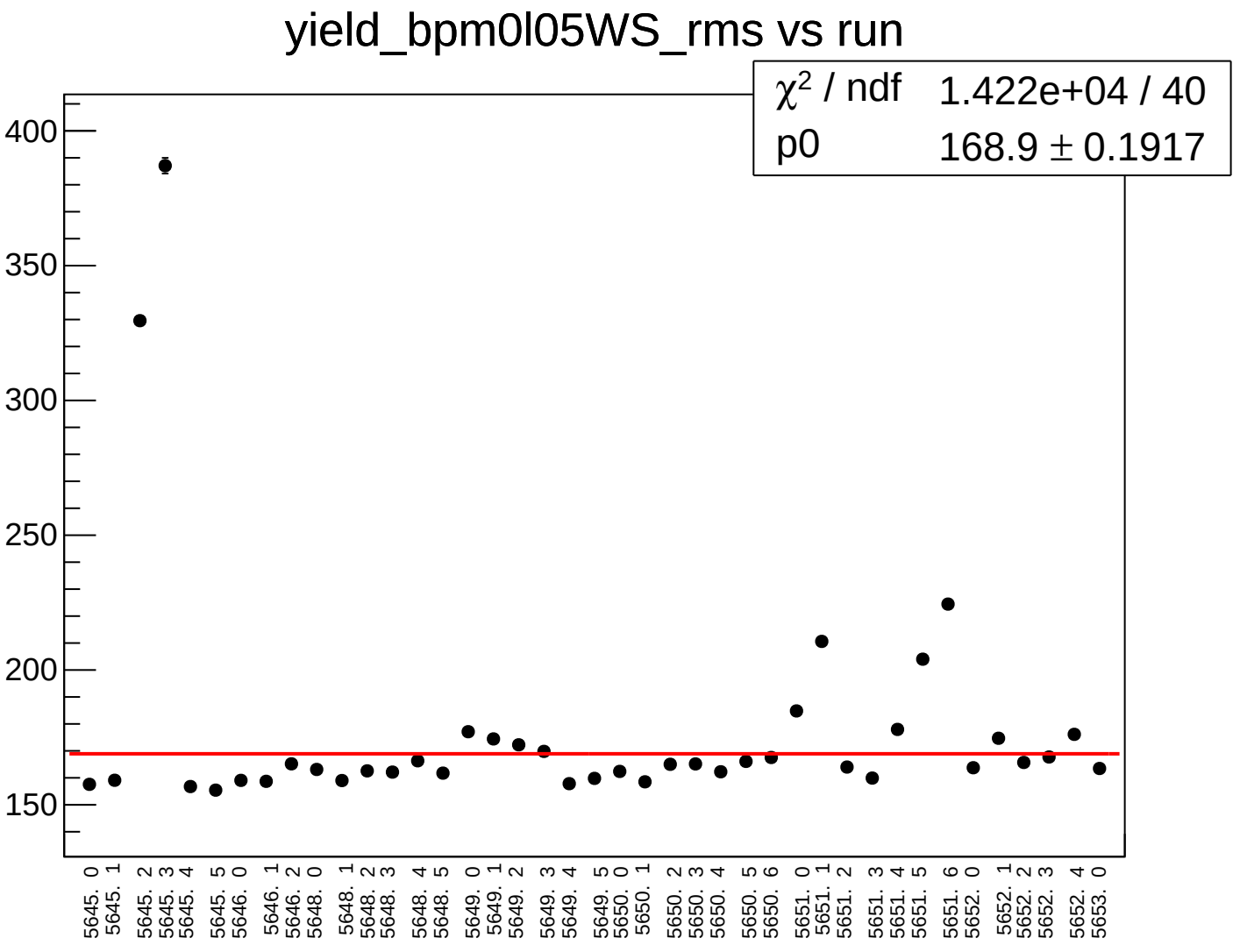

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.864e+05 / 40
p0 1.377e+05 ± 0.2561
138
137.8
137.6
137.4
137.2
137
pull
Entries 41
Mean −113.9
Std Dev 0
150
100
50
0
−50
−100
−150

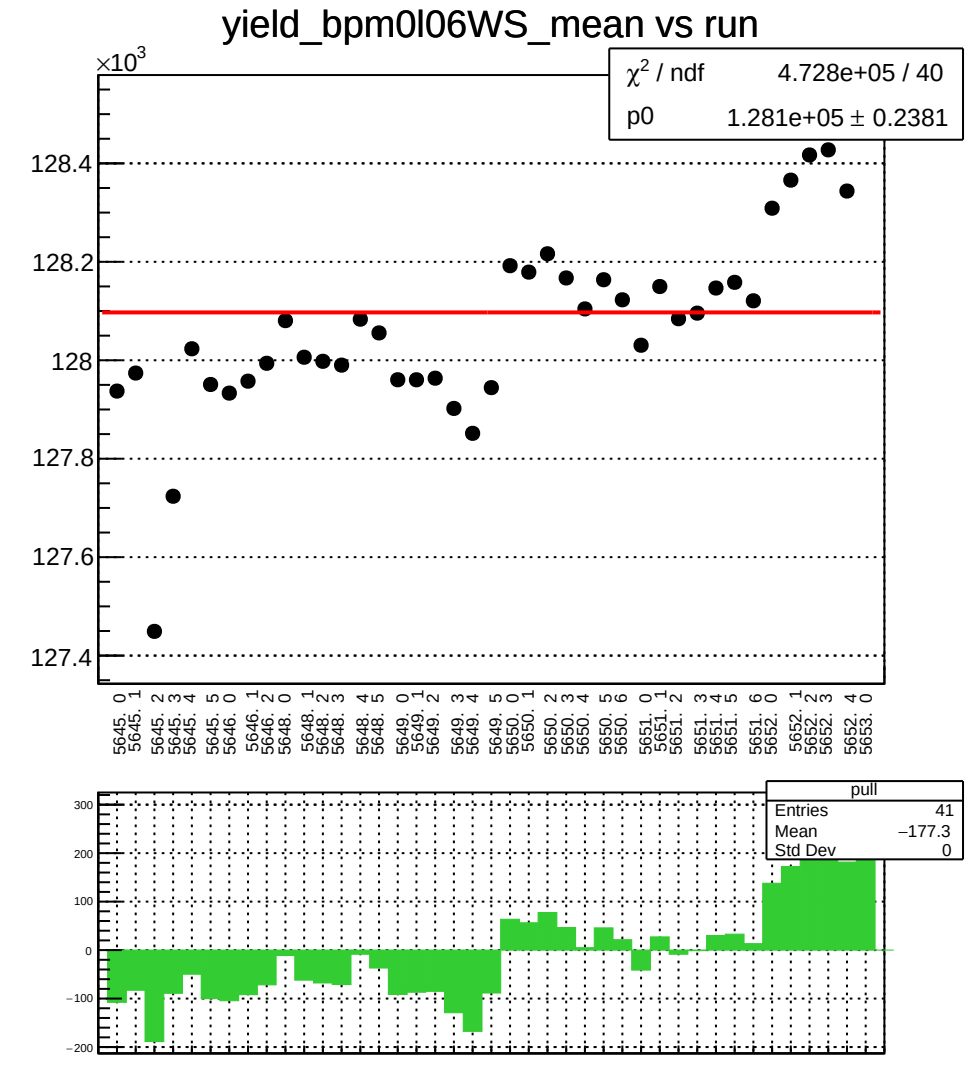

pull1D
Entries 41
Mean −3.049
Std Dev 3.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

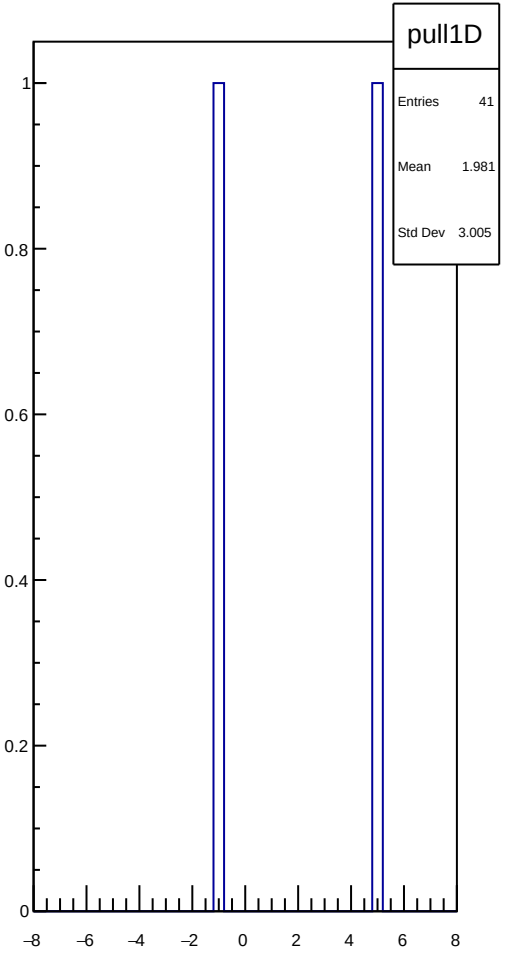

yield_bpm0l04WS_rms vs run
χ² / ndf 1.609e+04 / 40
p0 159.4 ± 0.1811
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

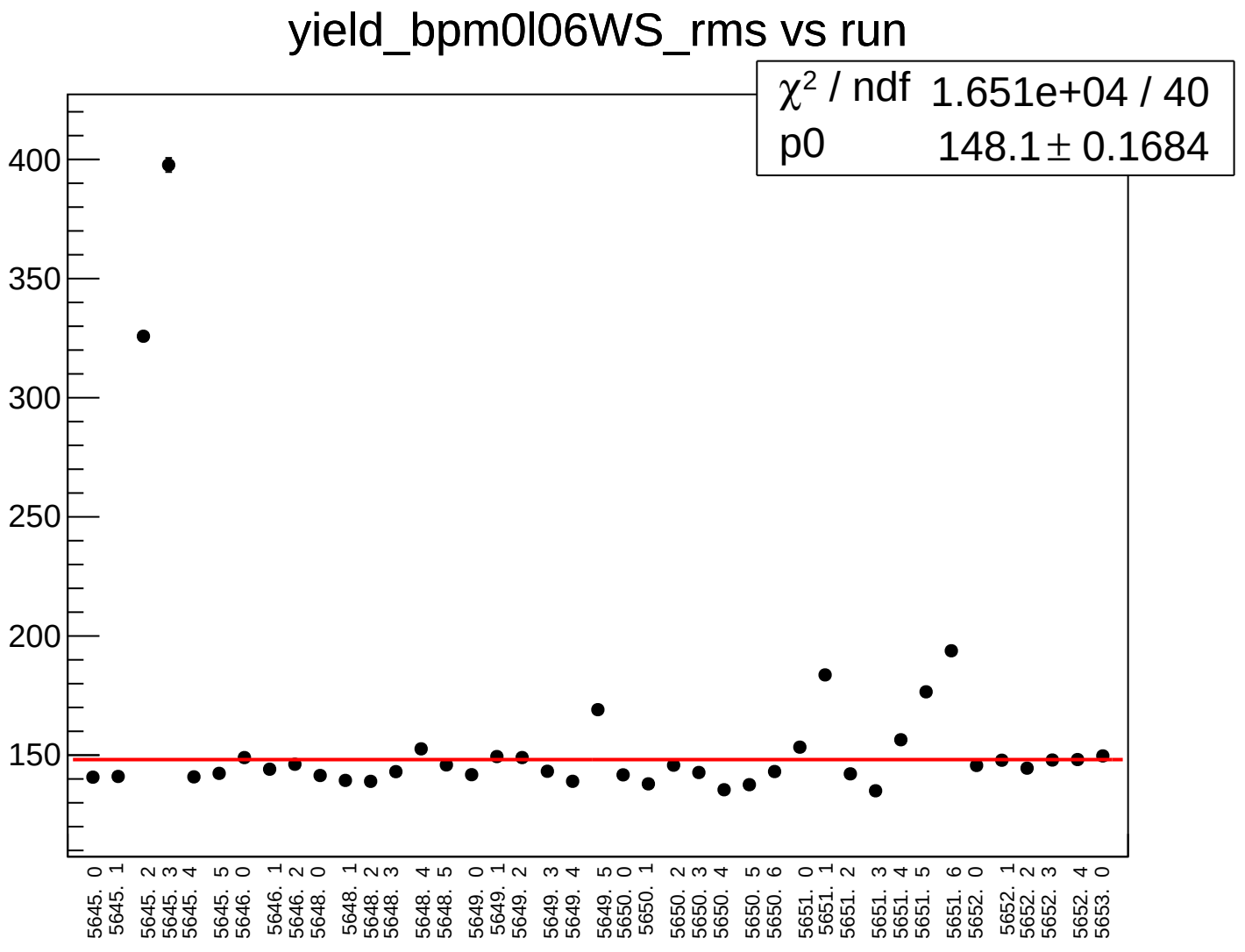

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 3.054e+05 / 40
p0 1.347e+05 ± 0.2712
135
134.8
134.6
134.4
134.2
134
pull
Entries 41
Mean −105.7
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

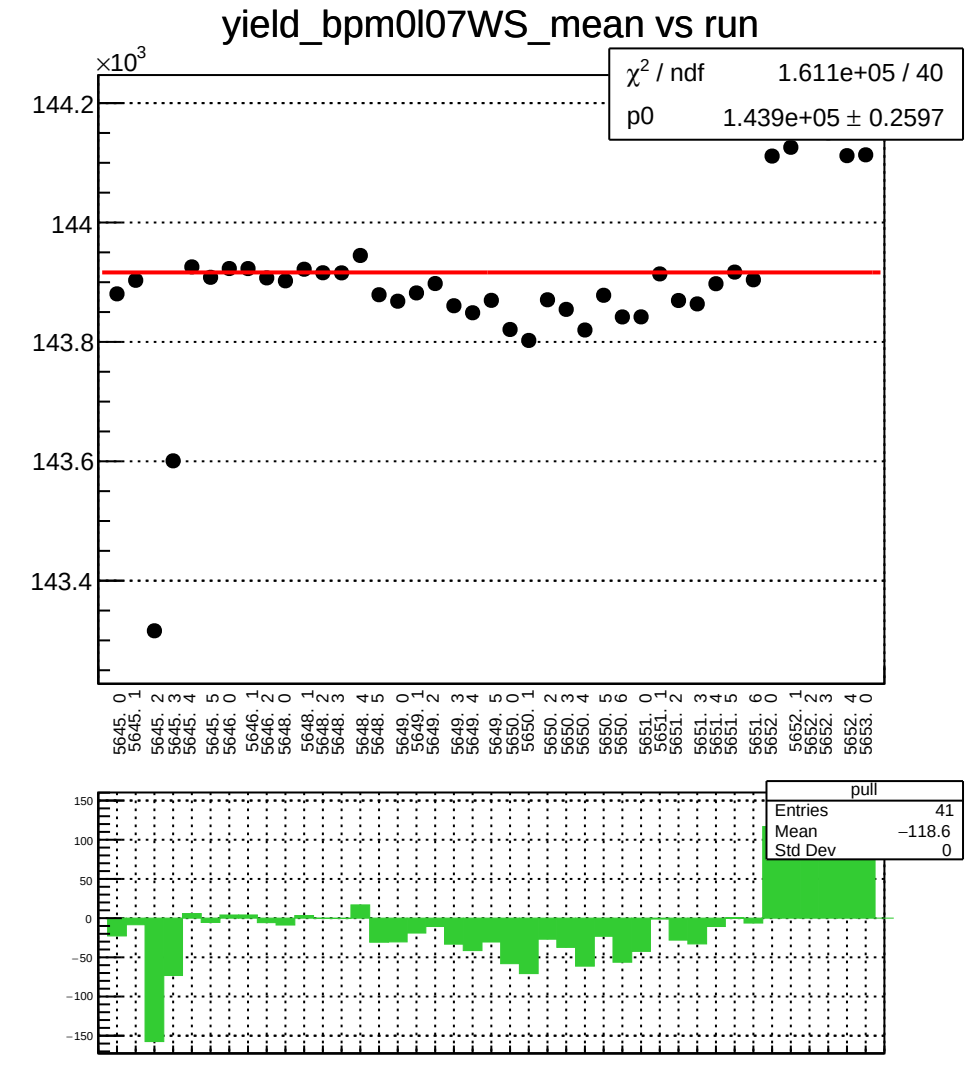

pull1D
Entries 41
Mean −0.1606
Std Dev 3.494
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

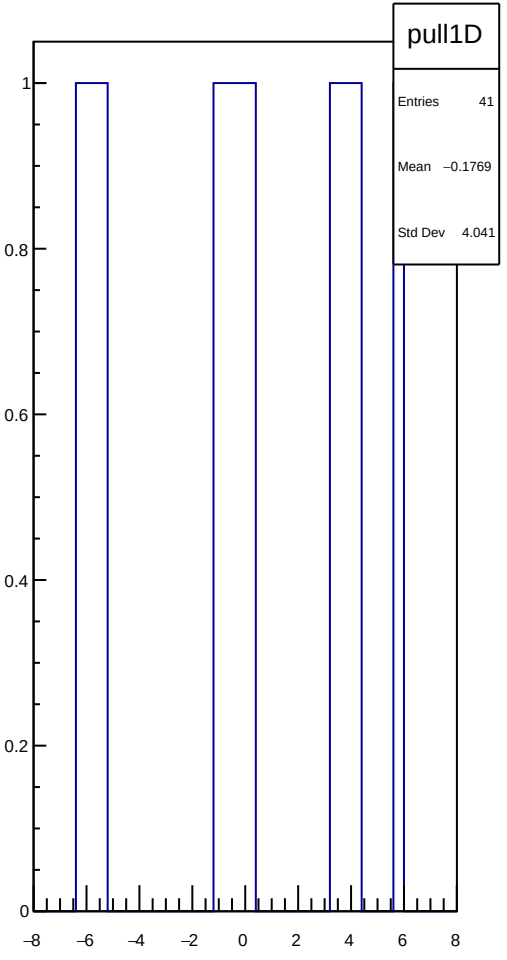

yield_bpm0l05WS_rms vs run
χ² / ndf 1.422e+04 / 40
p0 168.9 ± 0.1917
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

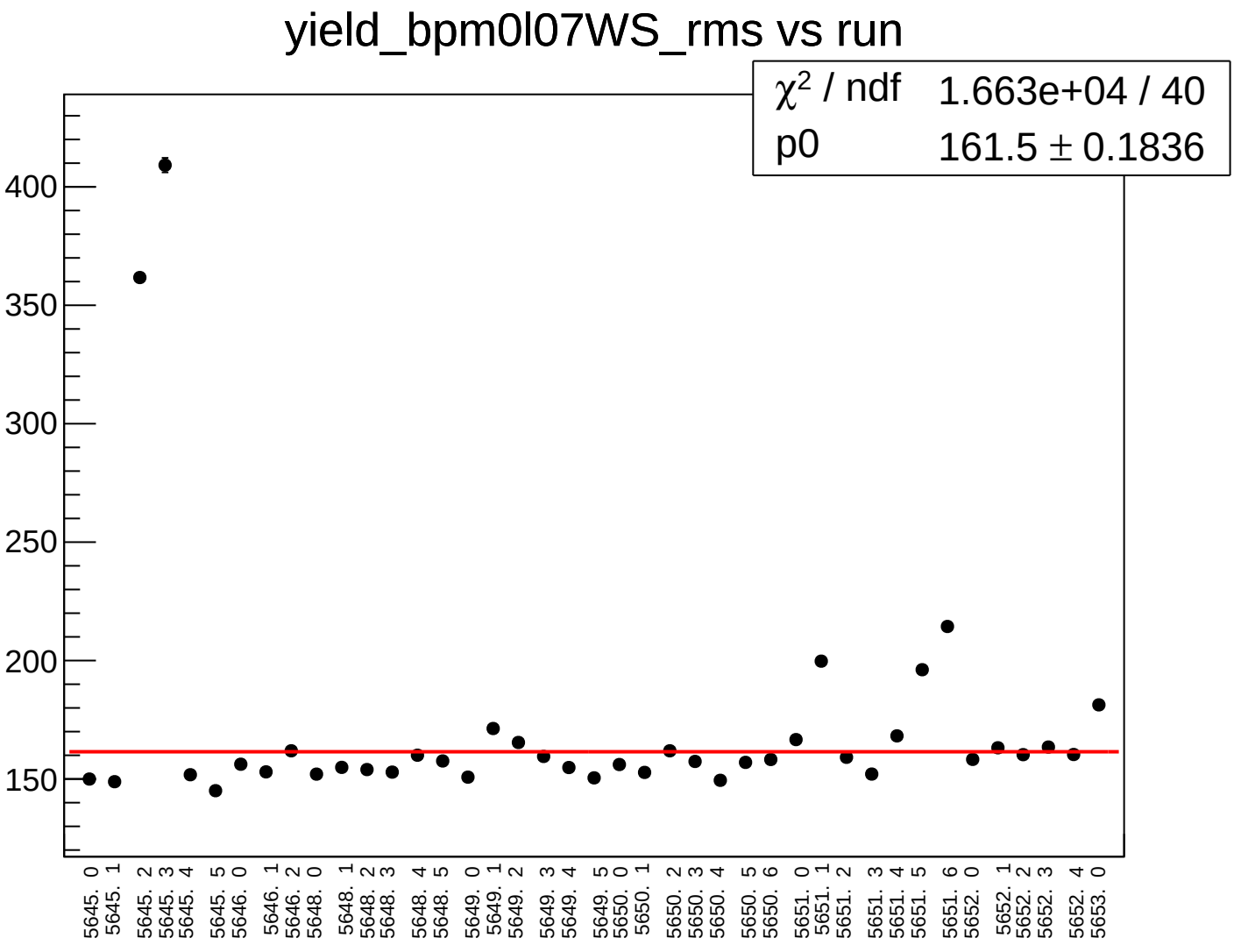

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 4.728e+05 / 40
p0 1.281e+05 ± 0.2381
128.4
128.2
128
127.8
127.6
127.4
pull
Entries 41
Mean −177.3
Std Dev 0
300
200
100
0
−100
−200

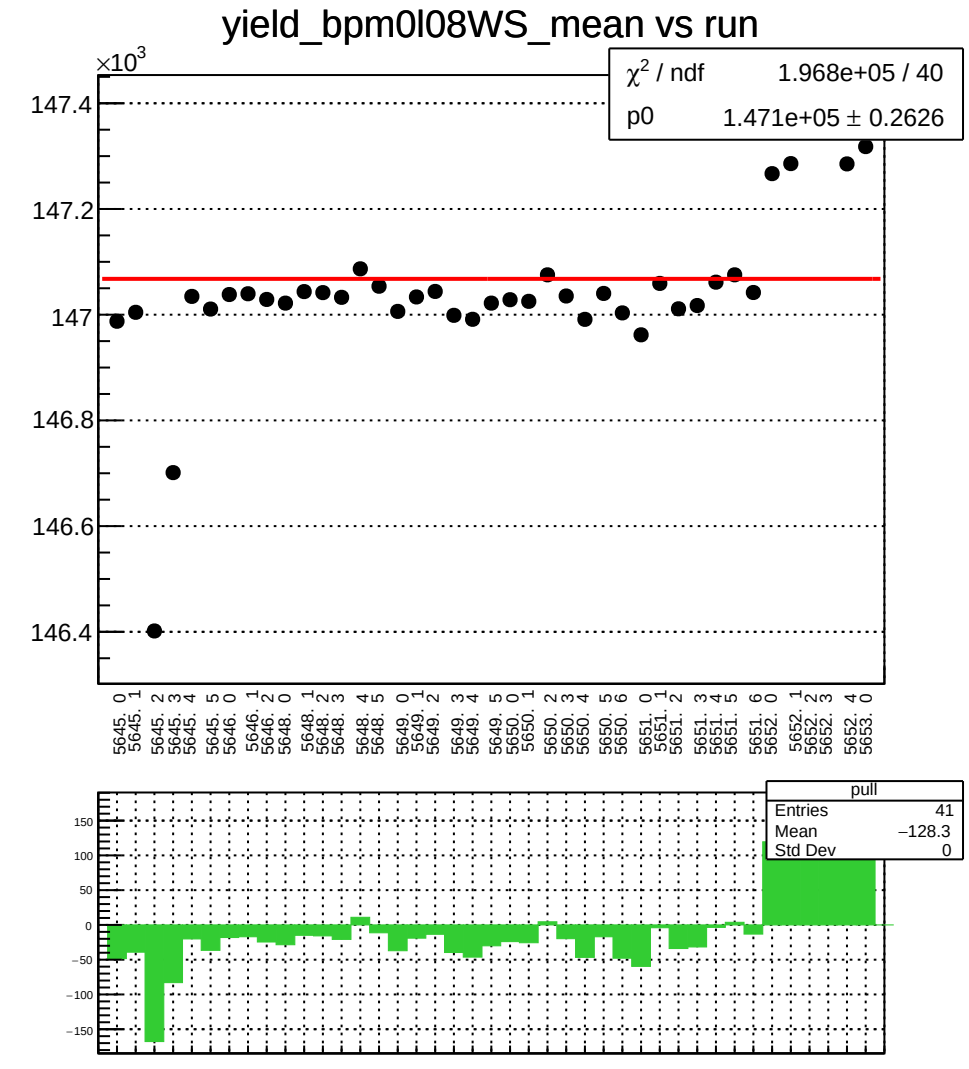

pull1D
Entries 41
Mean 1.981
Std Dev 3.005
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

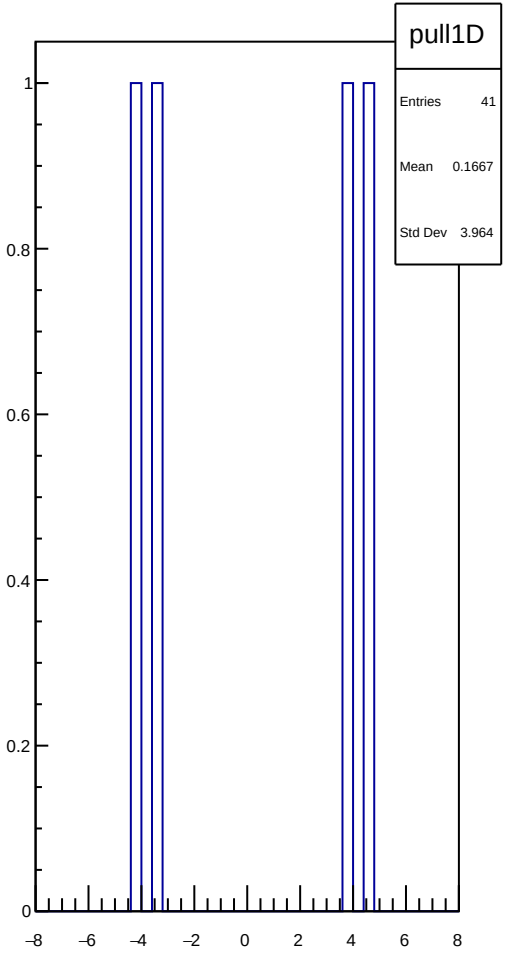

yield_bpm0l06WS_rms vs run
χ² / ndf 1.651e+04 / 40
p0 148.1 ± 0.1684
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

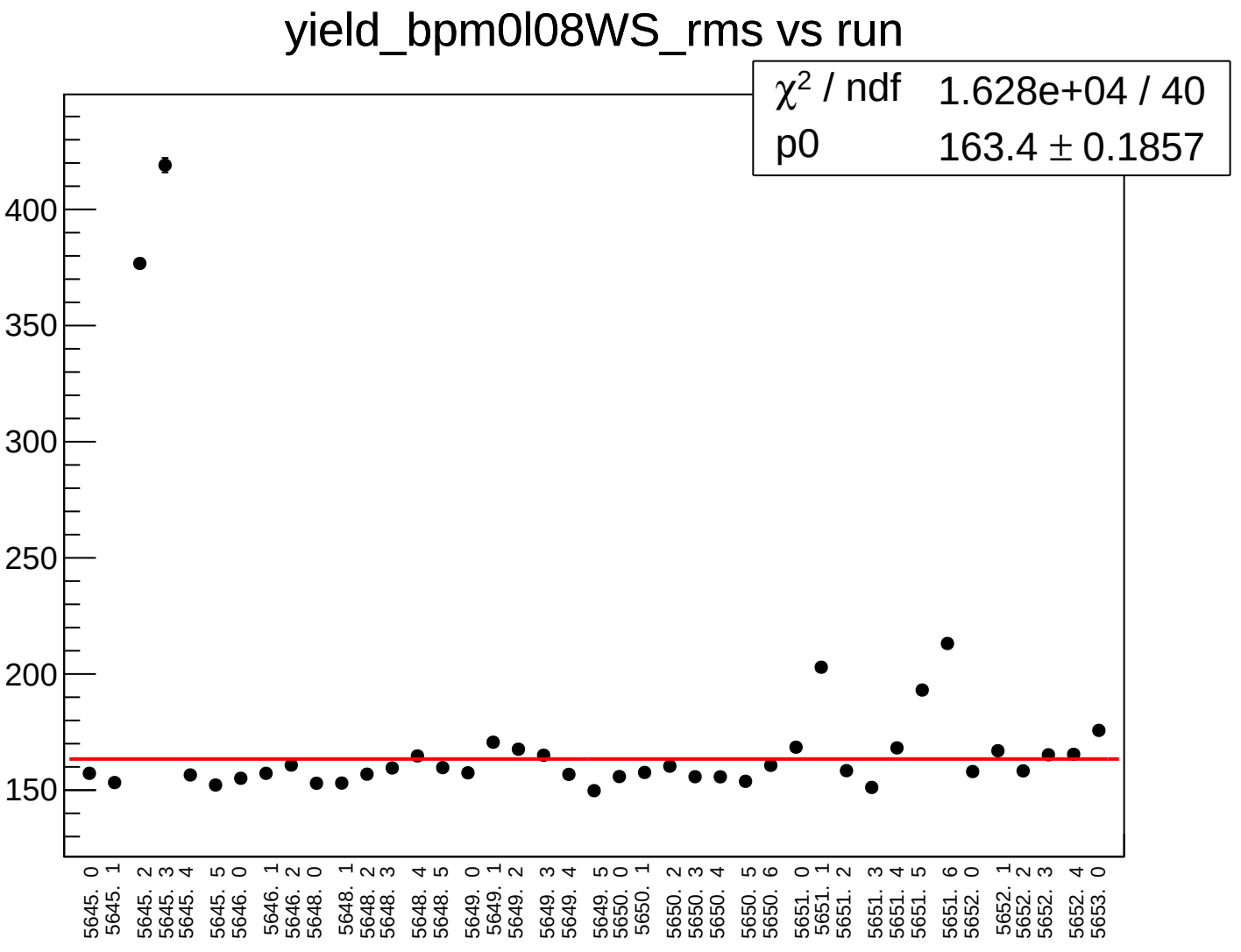

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.611e+05 / 40
p0 1.439e+05 ± 0.2597
144.2
144
143.8
143.6
143.4
pull
Entries 41
Mean −118.6
Std Dev 0
150
100
50
0
−50
−100
−150

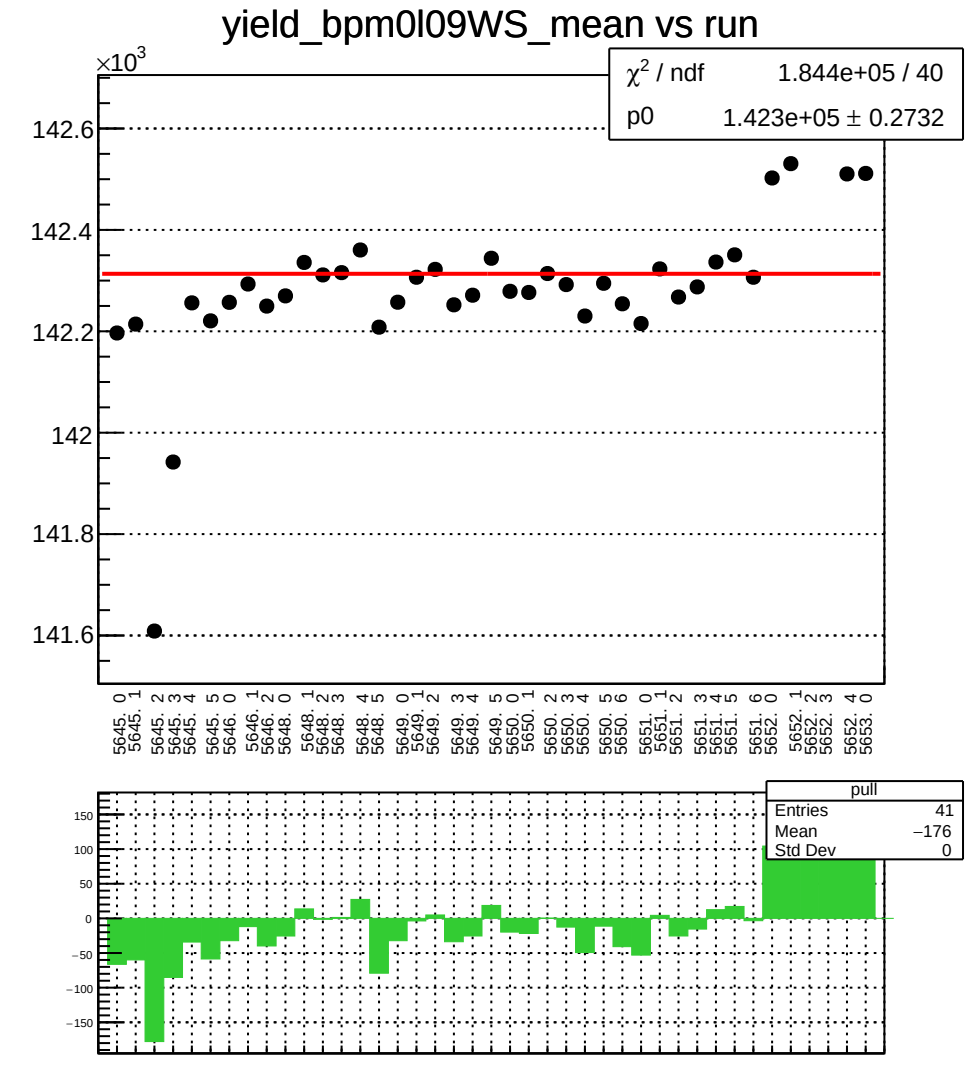

pull1D
Entries 41
Mean −0.1769
Std Dev 4.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

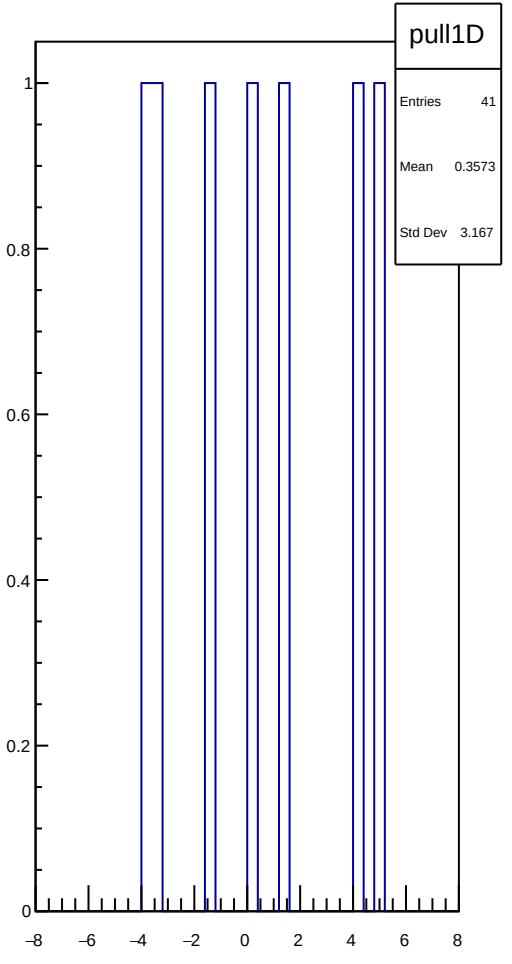

yield_bpm0l07WS_rms vs run
χ² / ndf 1.663e+04 / 40
p0 161.5 ± 0.1836
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

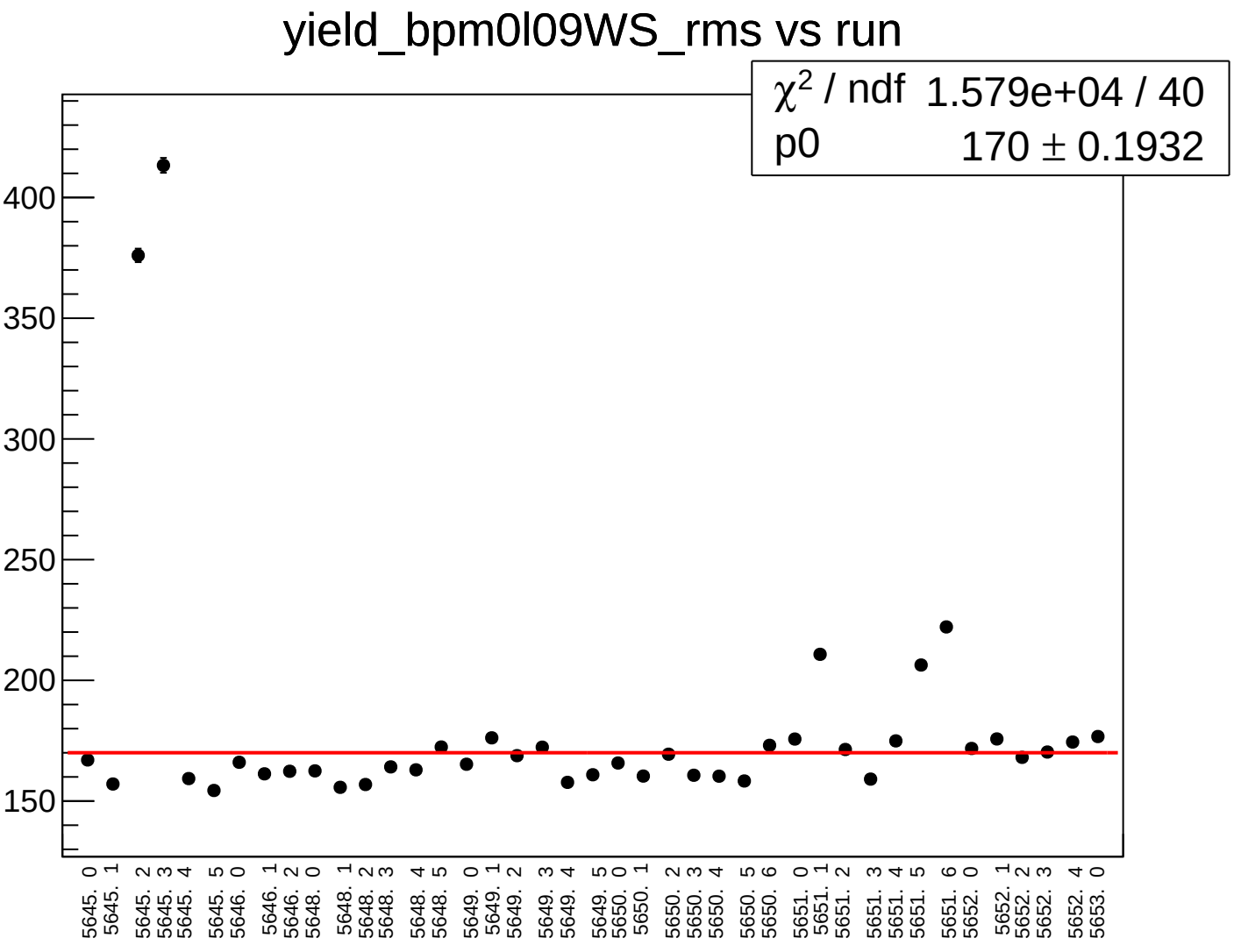

yield_bpm0l08WS_mean vs run
×10^3
147.4
147.2
147
146.8
146.6
146.4
χ² / ndf 1.968e+05 / 40
p0 1.471e+05 ± 0.2626
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −128.3
Std Dev 0
150
100
50
0
−50
−100
−150

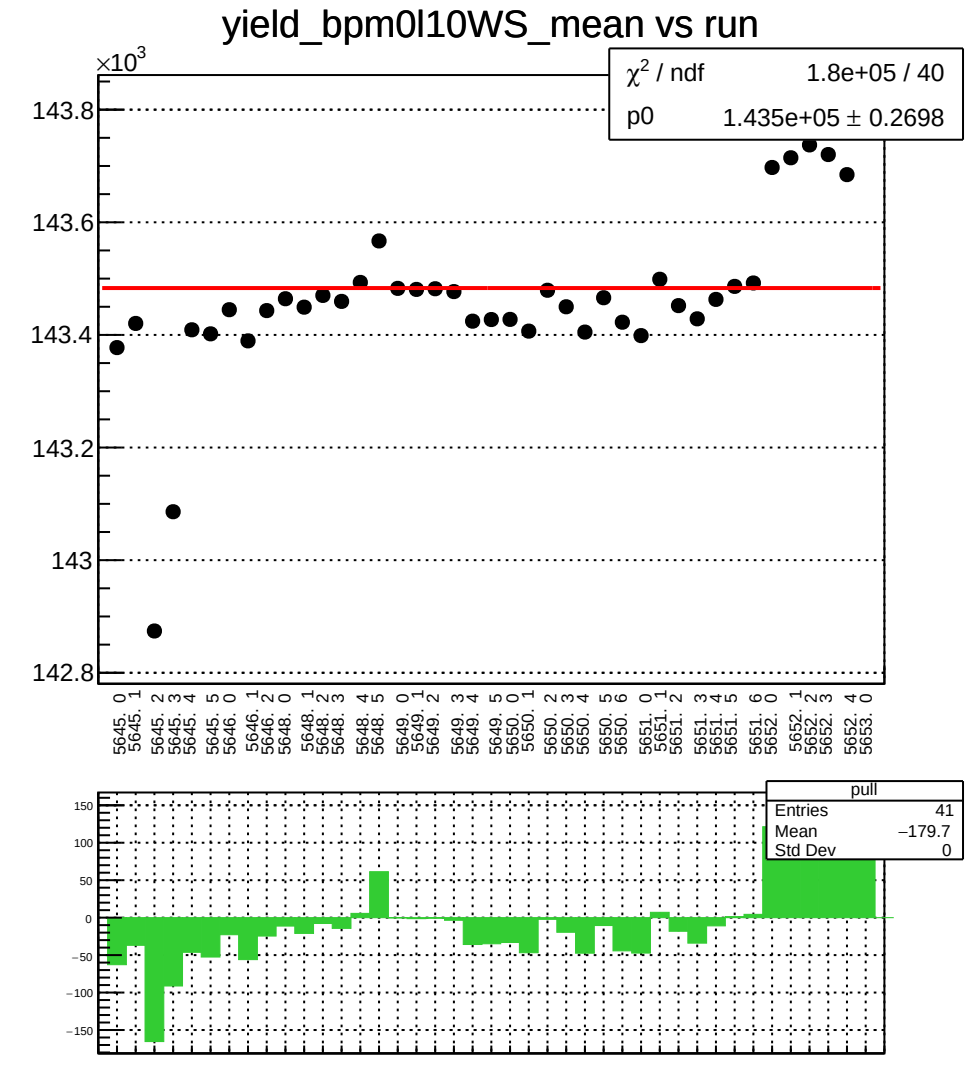

pull1D
Entries 41
Mean 0.1667
Std Dev 3.964
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

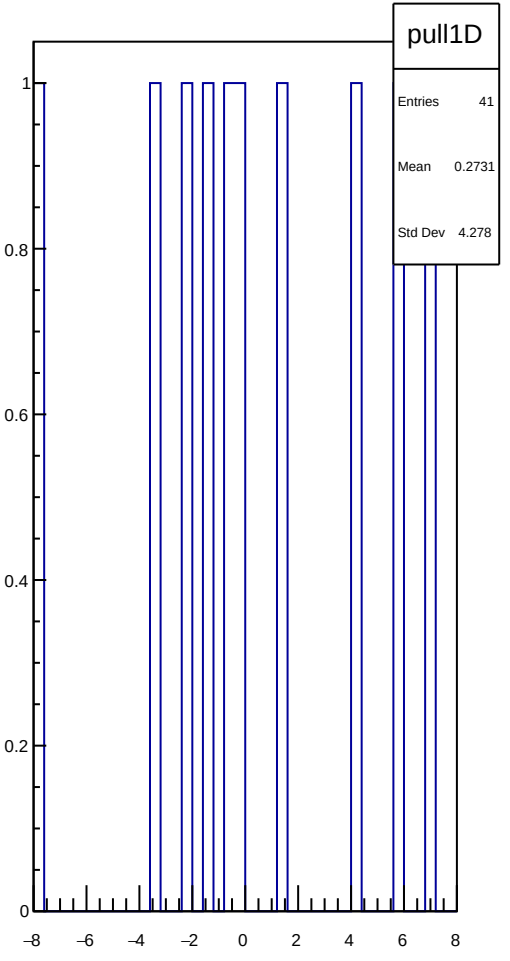

yield_bpm0l08WS_rms vs run
χ² / ndf 1.628e+04 / 40
p0 163.4 ± 0.1857
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

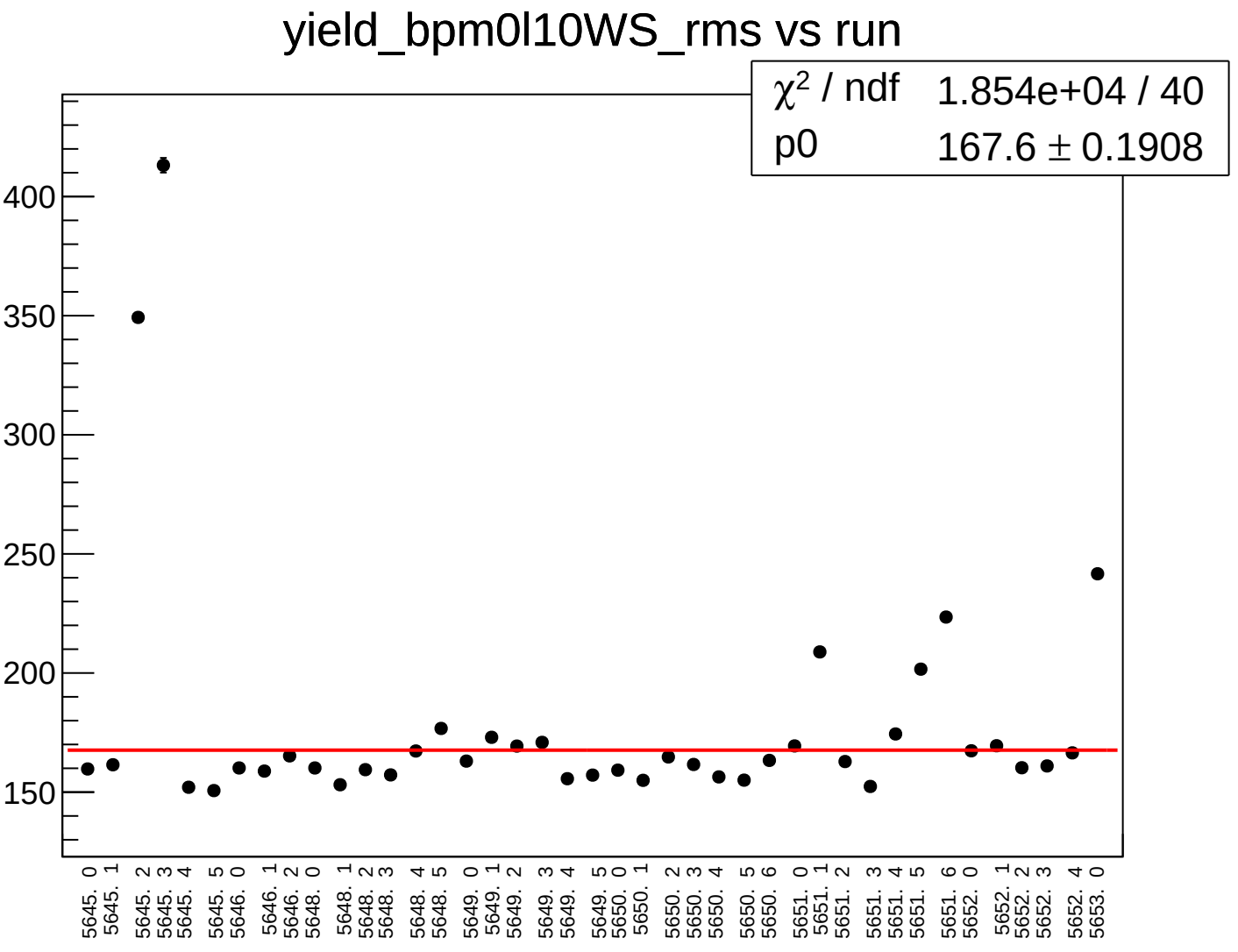

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.844e+05 / 40
p0 1.423e+05 ± 0.2732
142.6
142.4
142.2
142
141.8
141.6
pull
Entries 41
Mean −176
Std Dev 0
150
100
50
0
−50
−100
−150

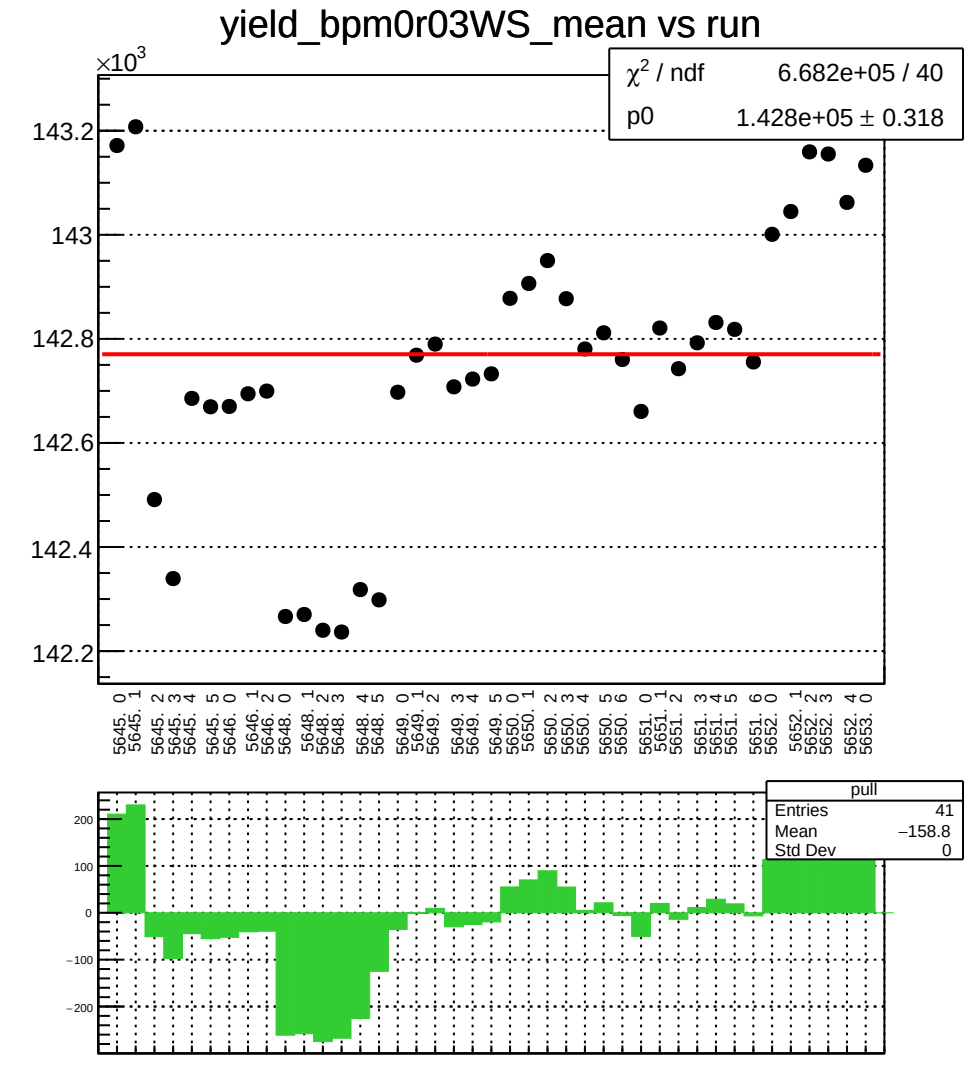

pull1D
Entries 41
Mean 0.3573
Std Dev 3.167
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

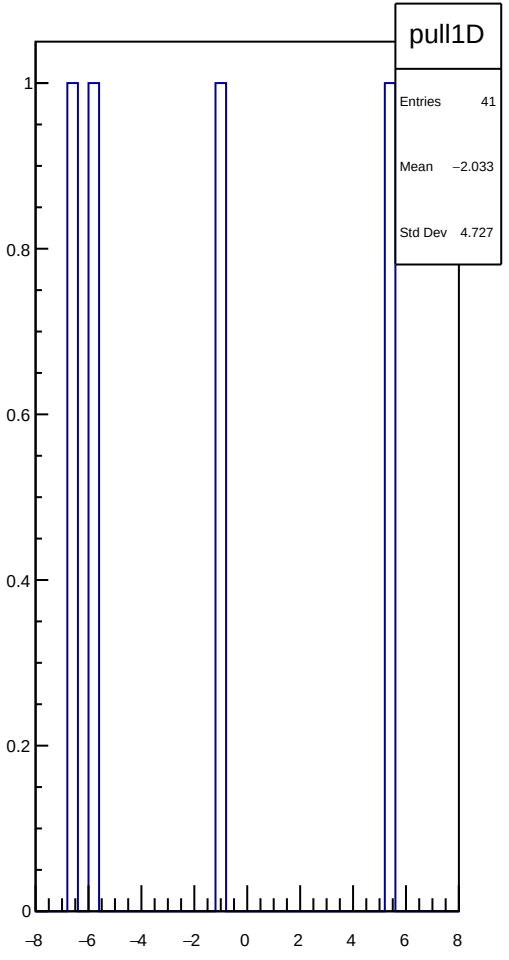

yield_bpm0l09WS_rms vs run
χ² / ndf 1.579e+04 / 40
p0 170 ± 0.1932
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

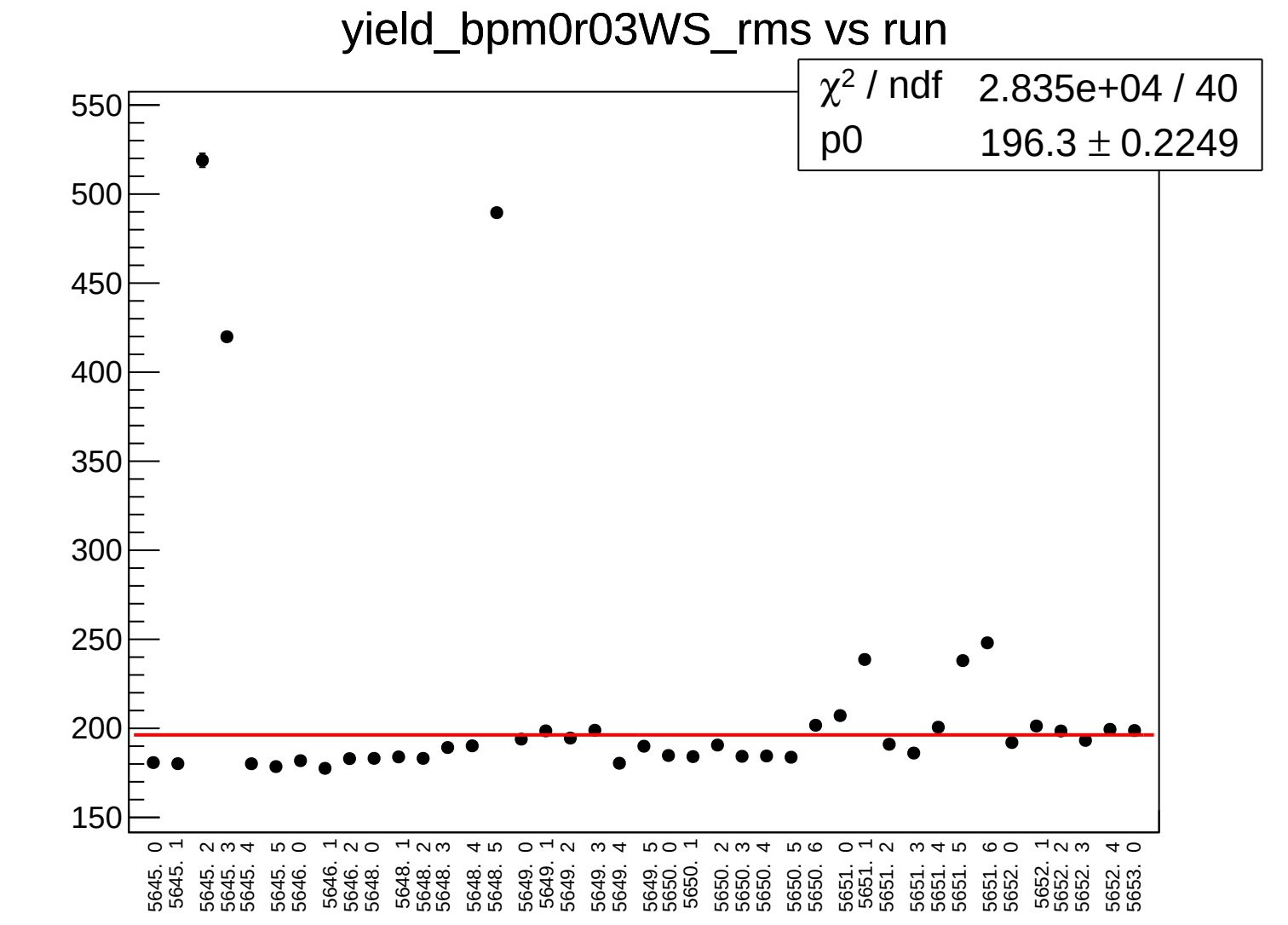

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.8e+05 / 40
p0 1.435e+05 ± 0.2698
143.8
143.6
143.4
143.2
143
142.8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −179.7
Std Dev 0
150
100
50
0
−50
−100
−150

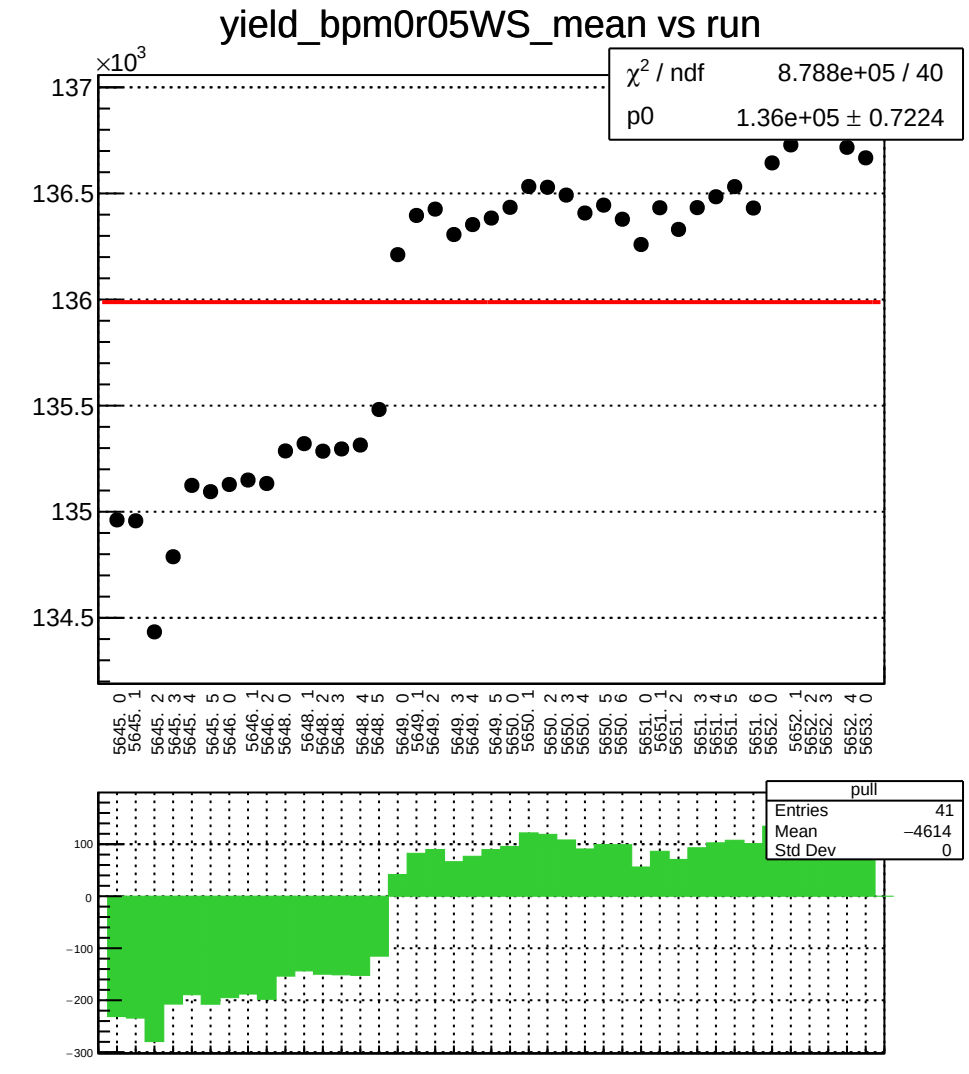

pull1D
Entries 41
Mean 0.2731
Std Dev 4.278
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

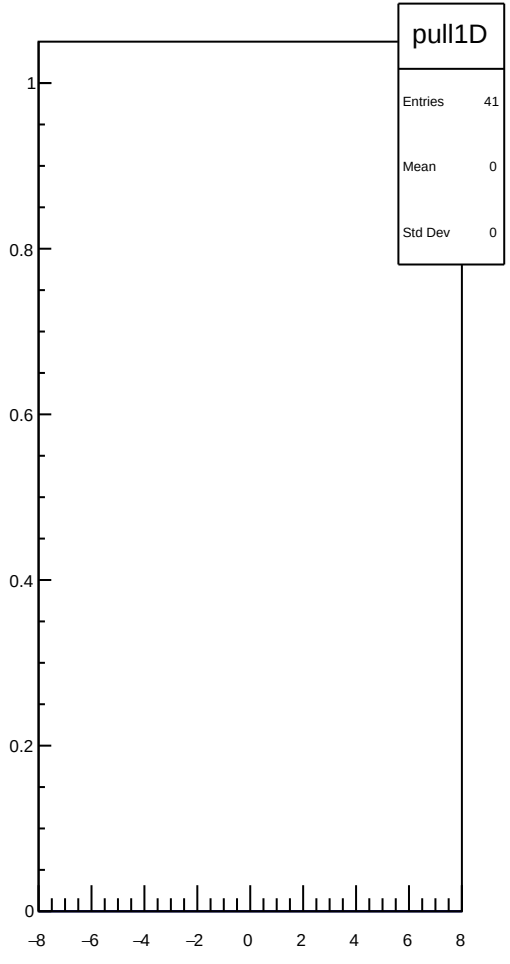

yield_bpm0l10WS_rms vs run
χ² / ndf 1.854e+04 / 40
p0 167.6 ± 0.1908
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

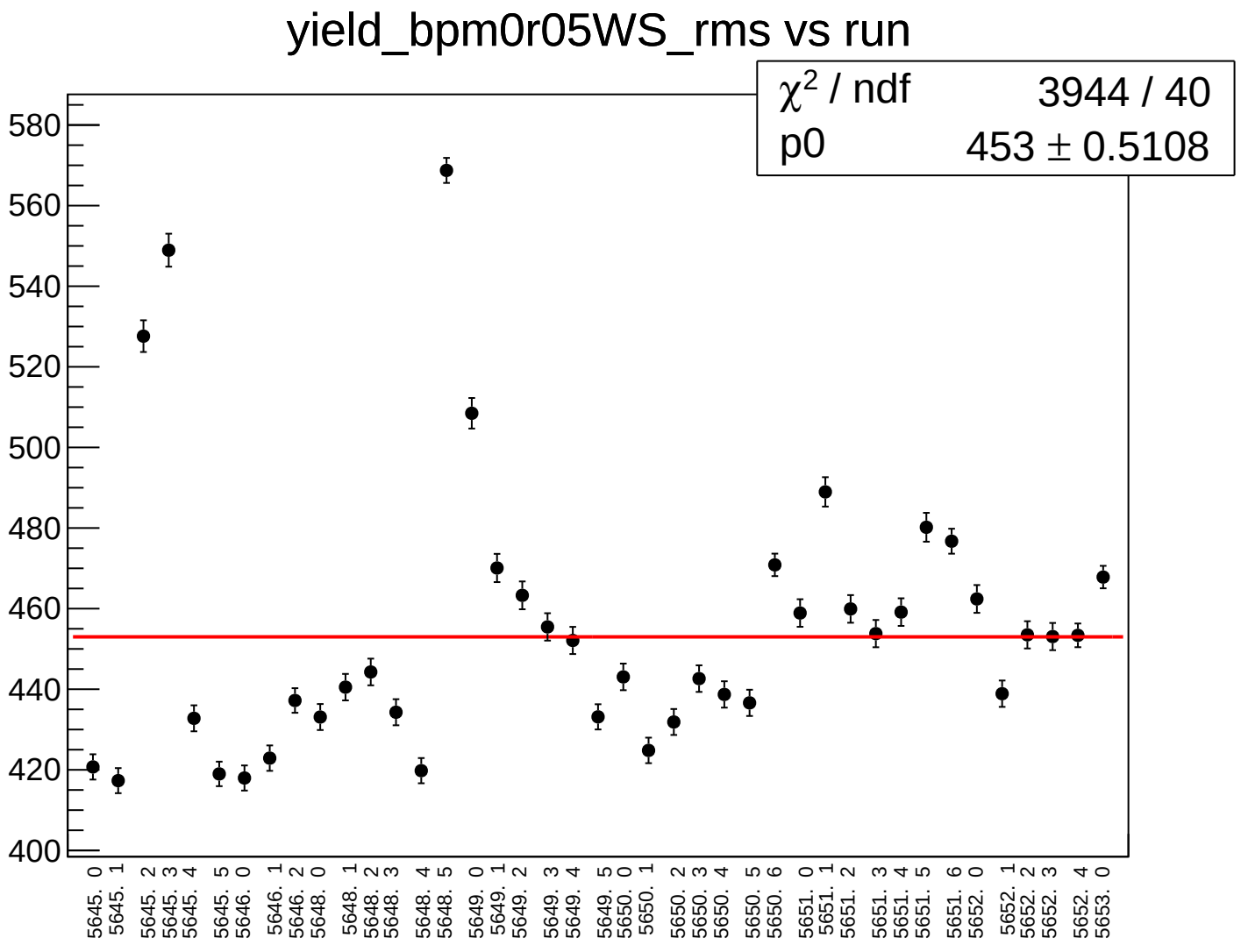

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 6.682e+05 / 40
p0 1.428e+05 ± 0.318
143.2
143
142.8
142.6
142.4
142.2
pull
Entries 41
Mean −158.8
Std Dev 0
200
100
0
−100
−200

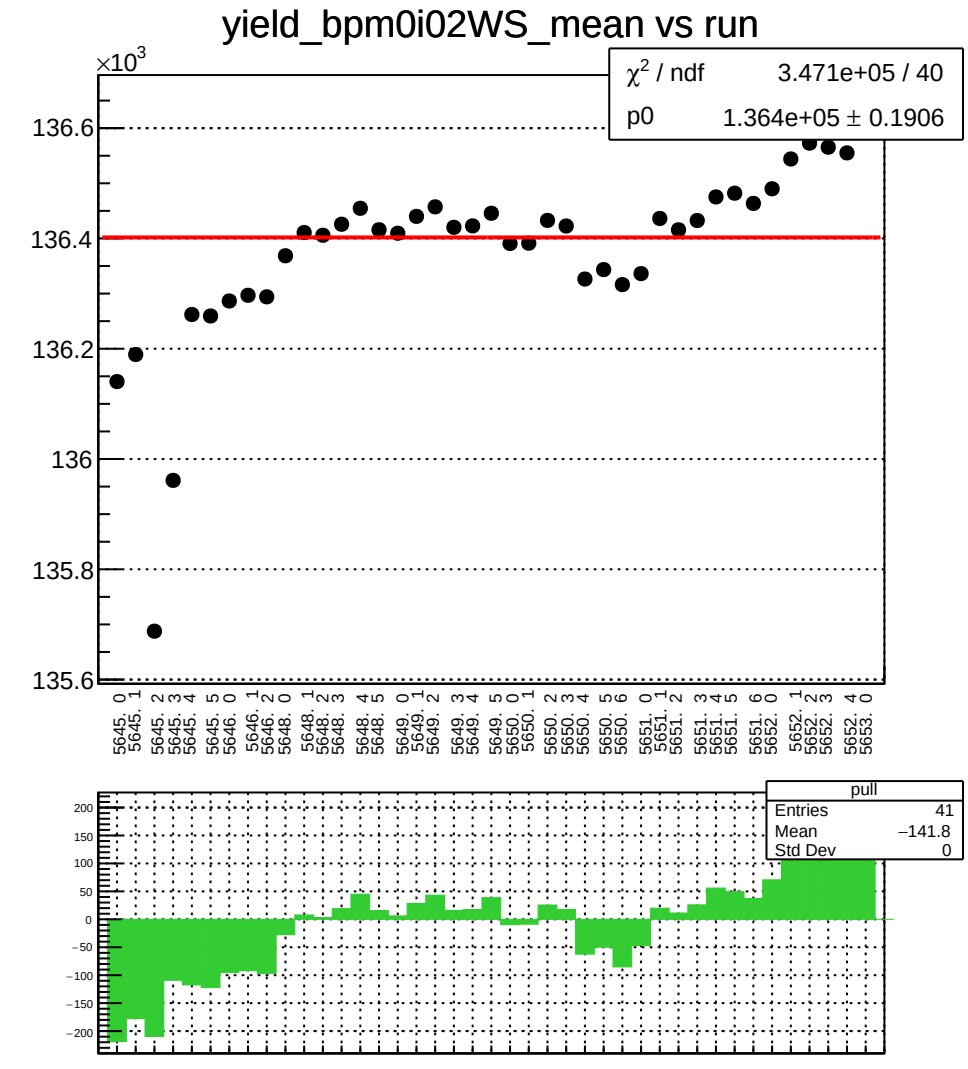

pull1D
Entries 41
Mean −2.033
Std Dev 4.727
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

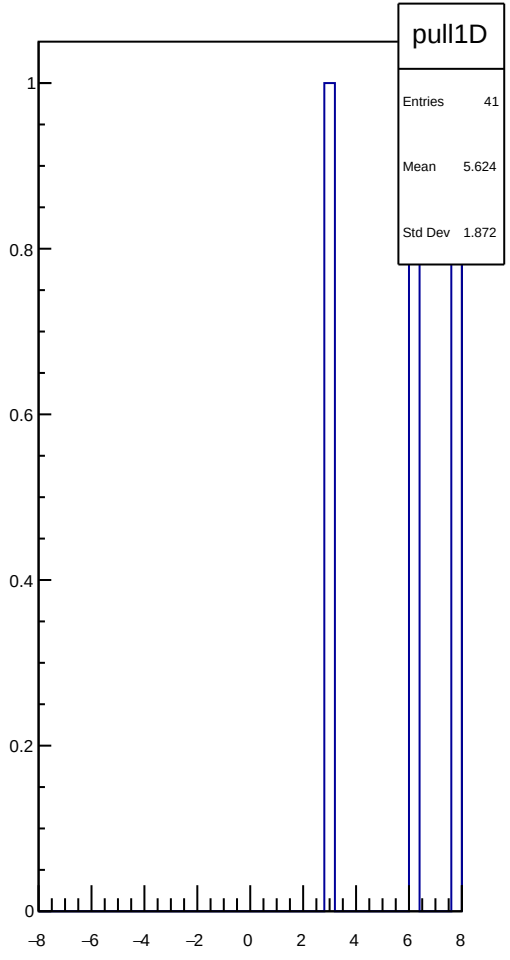

yield_bpm0r03WS_rms vs run
χ² / ndf 2.835e+04 / 40
p0 196.3 ± 0.2249
550
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

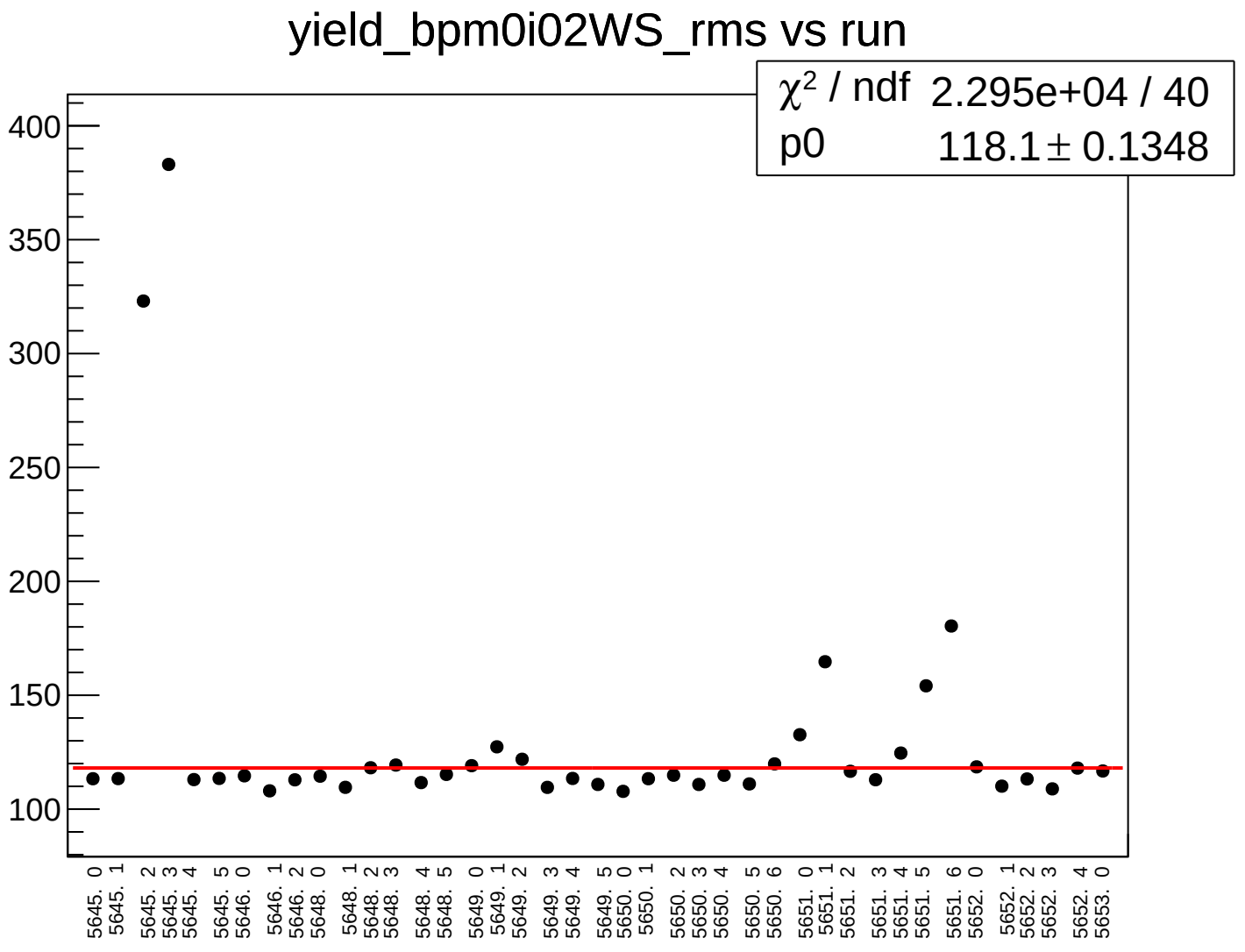

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 8.788e+05 / 40
p0 1.36e+05 ± 0.7224
137
136.5
136
135.5
135
134.5
pull
Entries 41
Mean −4614
Std Dev 0
100
0
−100
−200
−300

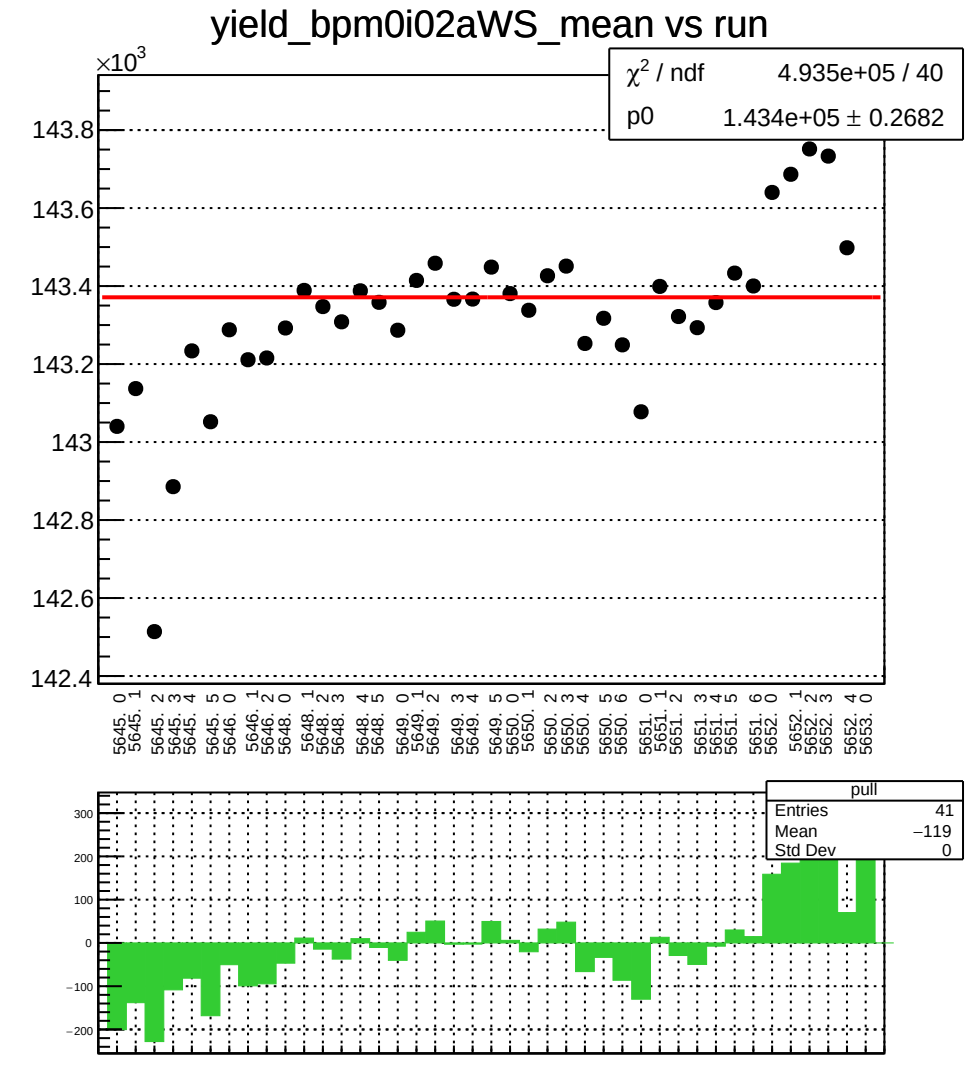

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

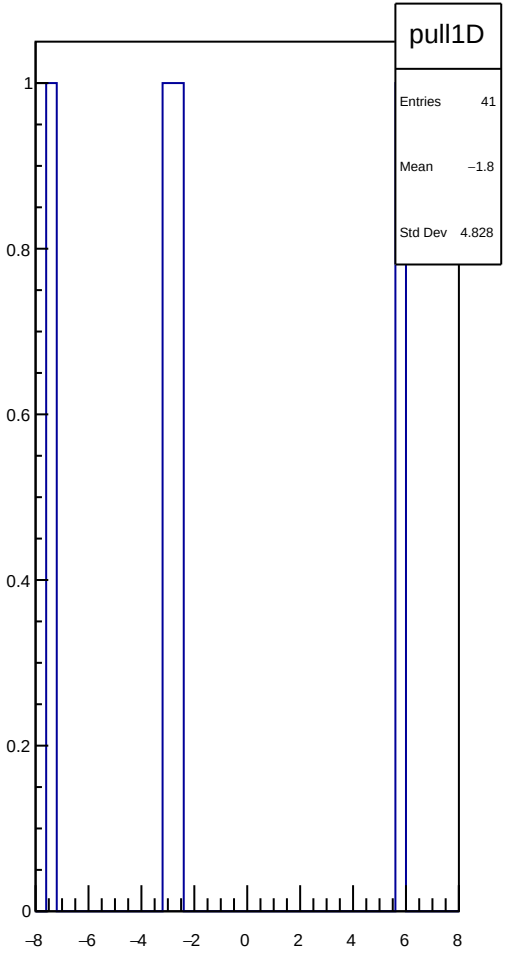

yield_bpm0r05WS_rms vs run
χ² / ndf 3944 / 40
p0 453 ± 0.5108
580
560
540
520
500
480
460
440
420
400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

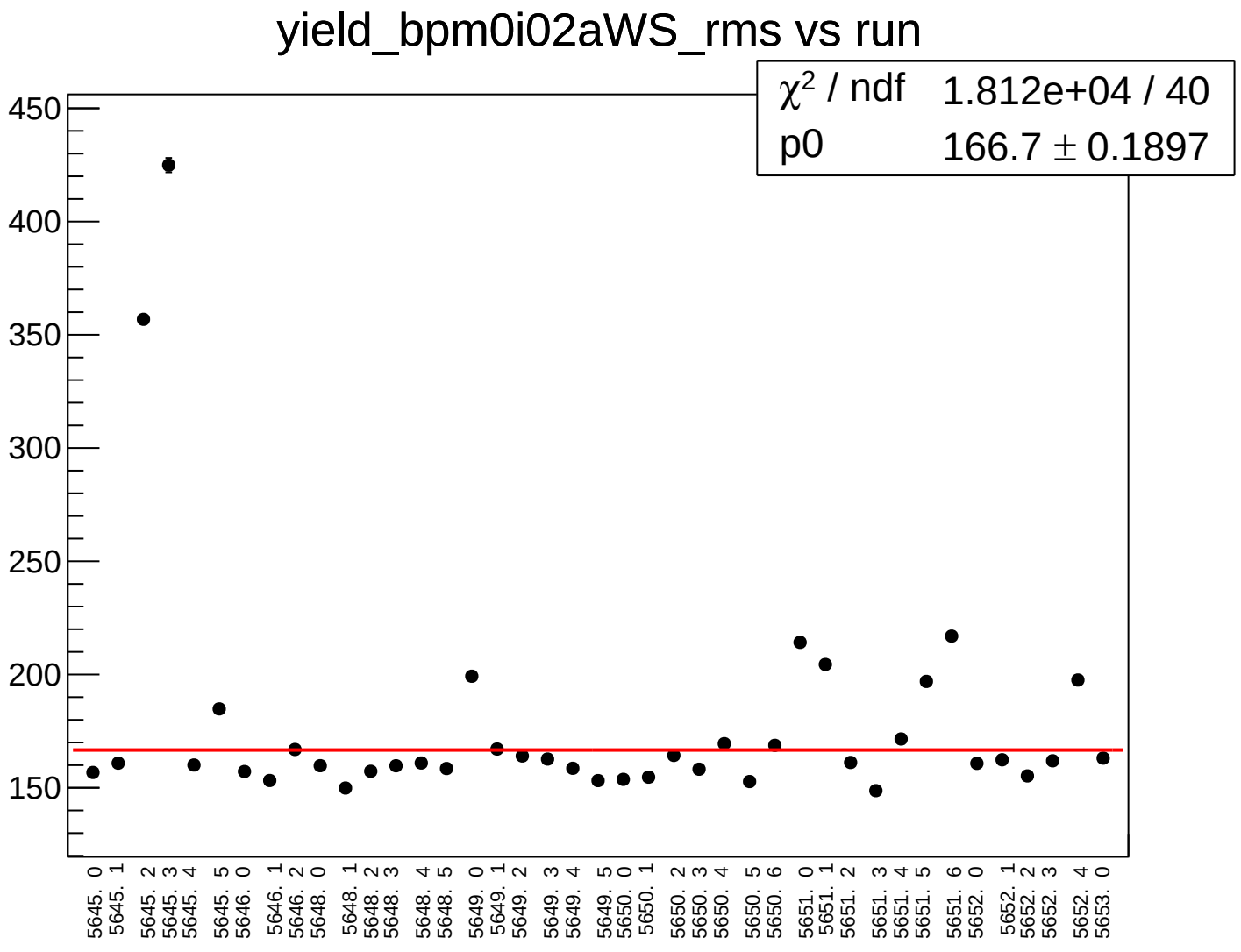

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3.471e+05 / 40
p0 1.364e+05 ± 0.1906
136.6
136.4
136.2
136
135.8
135.6
pull
Entries 41
Mean −141.8
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

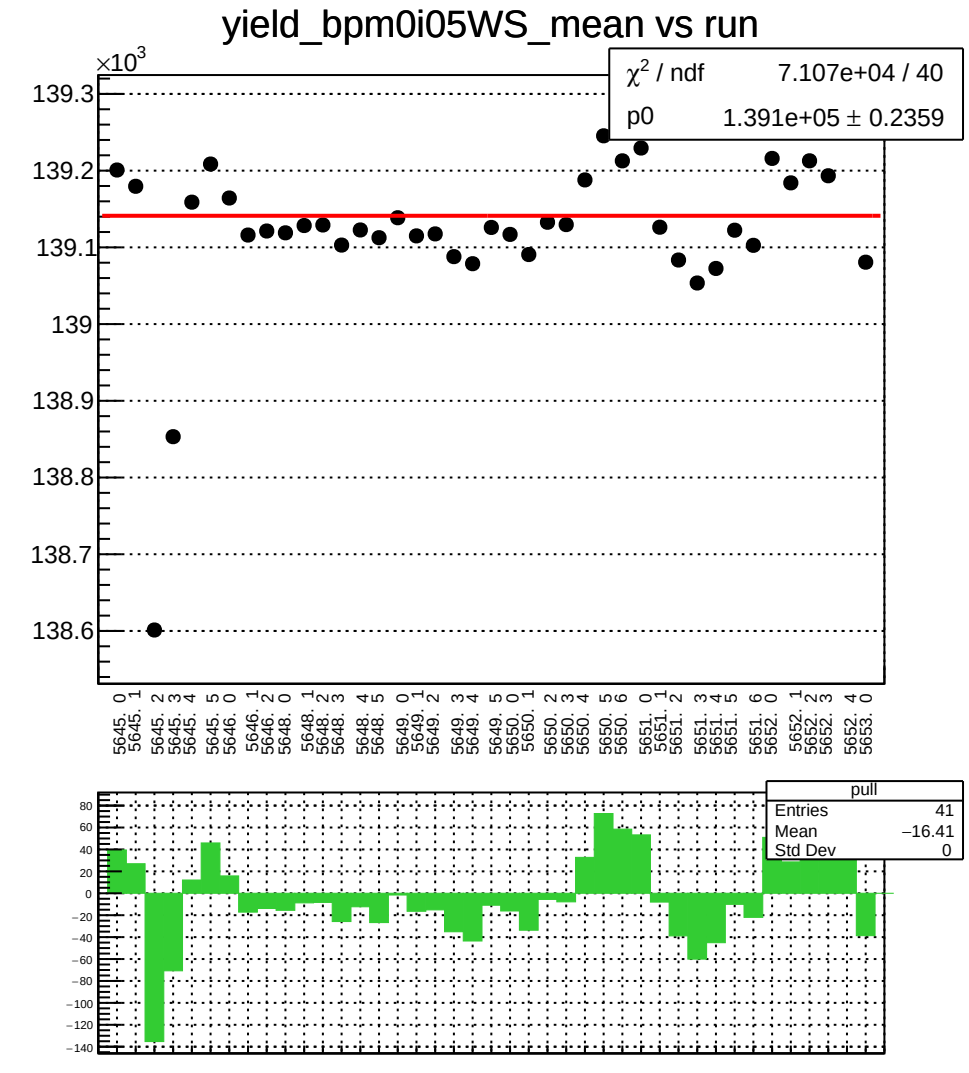

pull1D
Entries 41
Mean 5.624
Std Dev 1.872
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

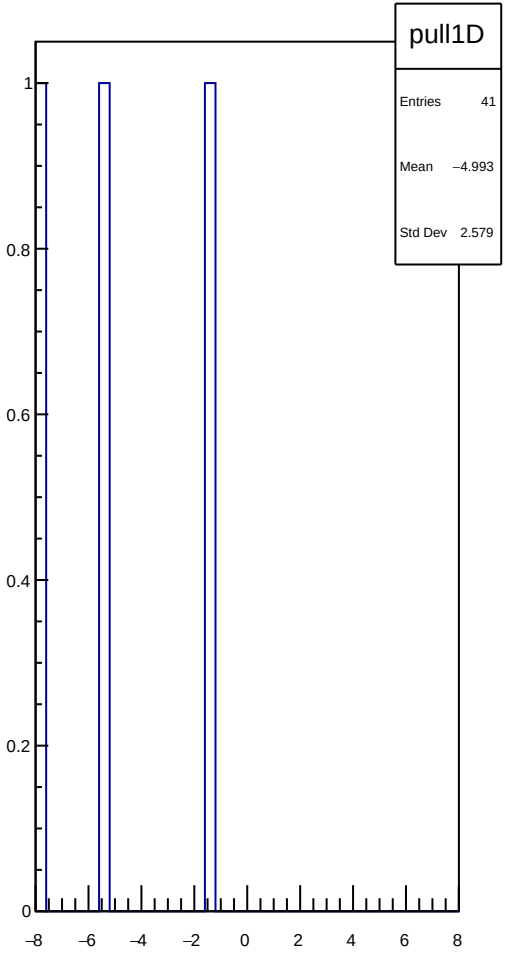

yield_bpm0i02WS_rms vs run
χ² / ndf 2.295e+04 / 40
p0 118.1 ± 0.1348
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

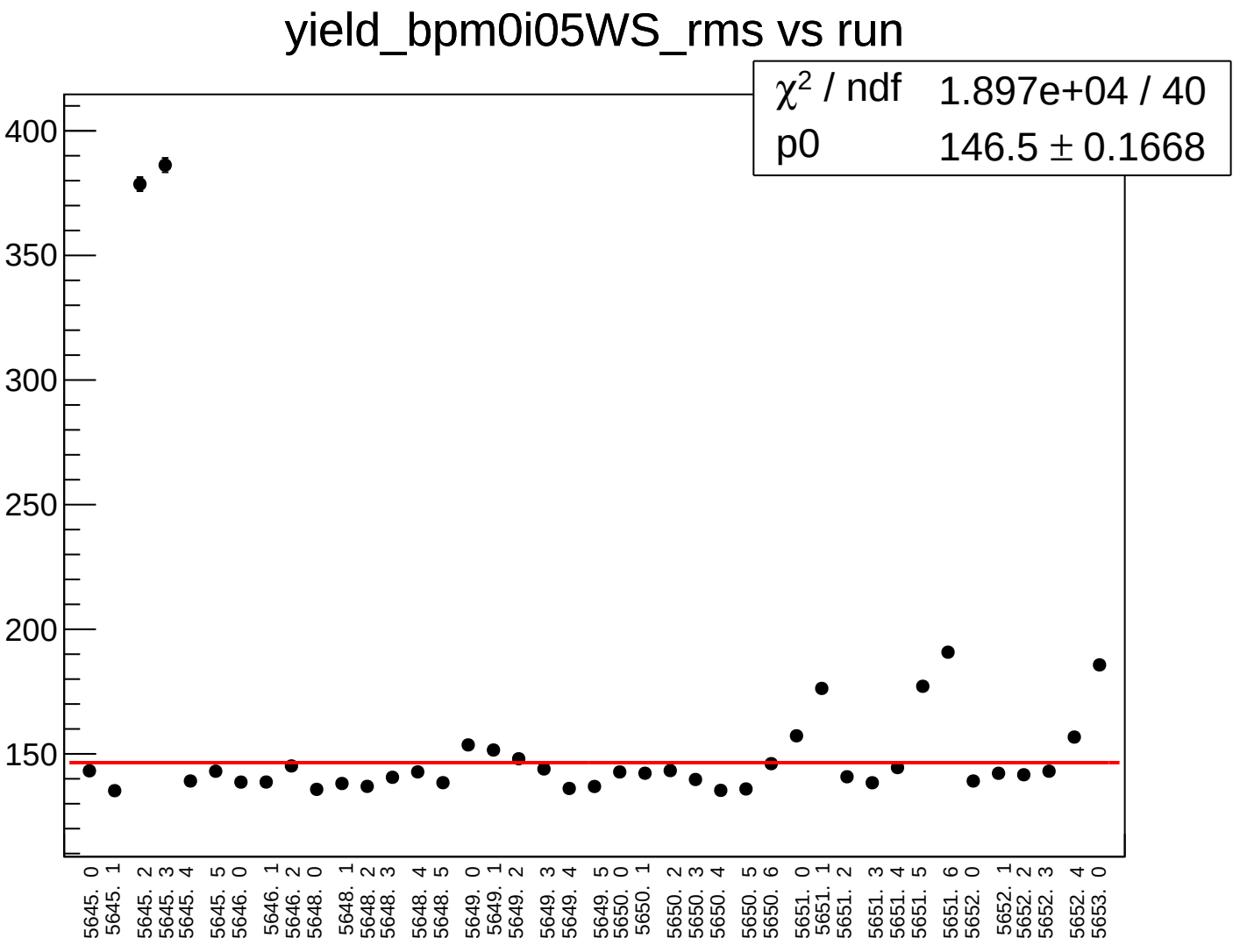

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.935e+05 / 40
p0 1.434e+05 ± 0.2682
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
pull
Entries 41
Mean −119
Std Dev 0
300
200
100
0
−100
−200

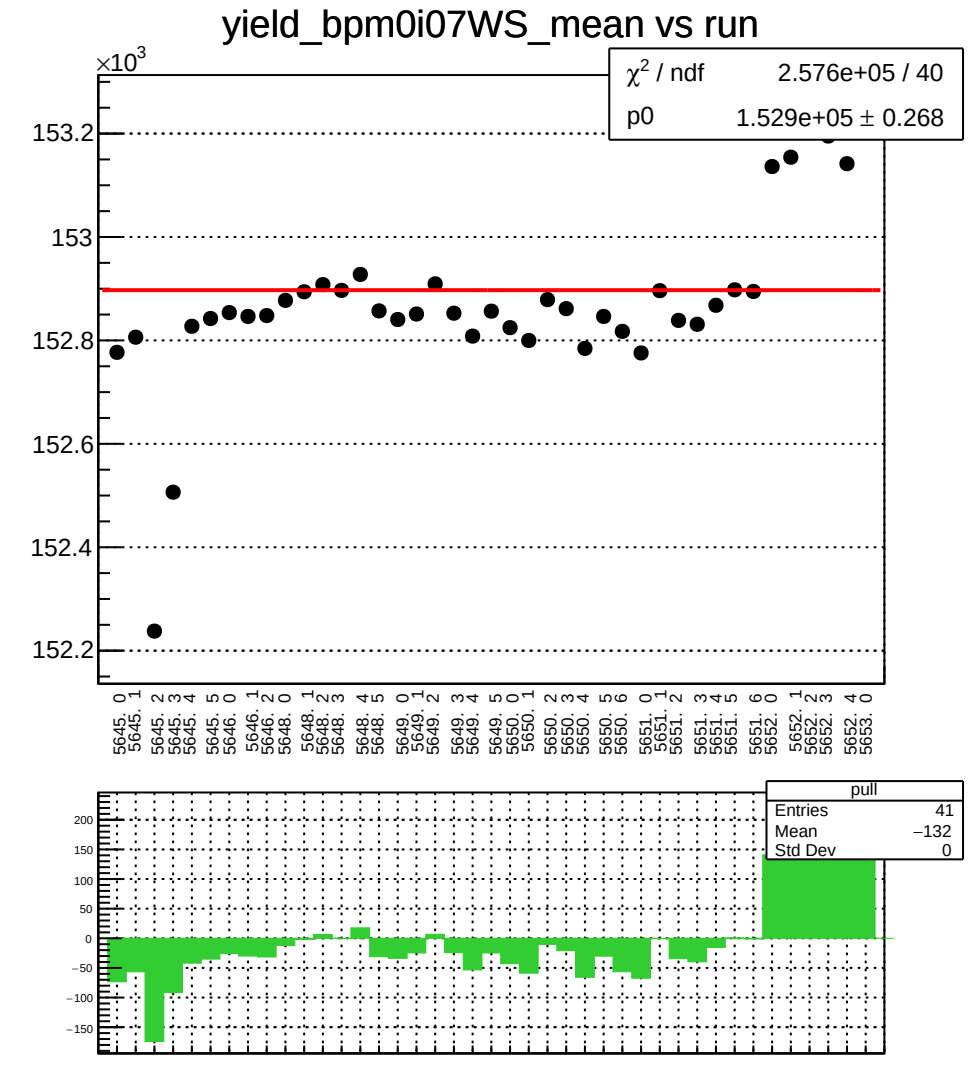

pull1D
Entries 41
Mean −1.8
Std Dev 4.828
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

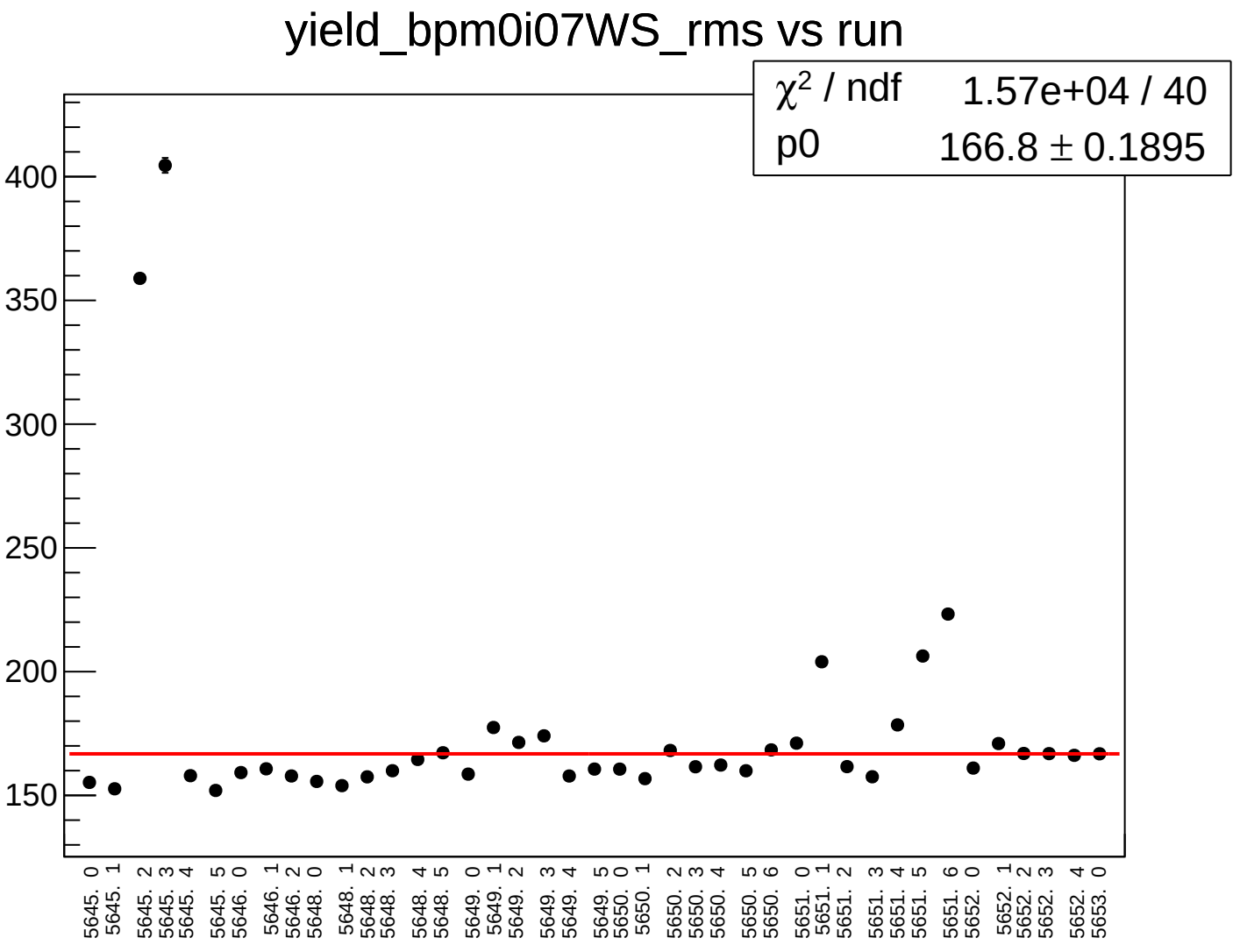

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.812e+04 / 40
p0 166.7 ± 0.1897
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

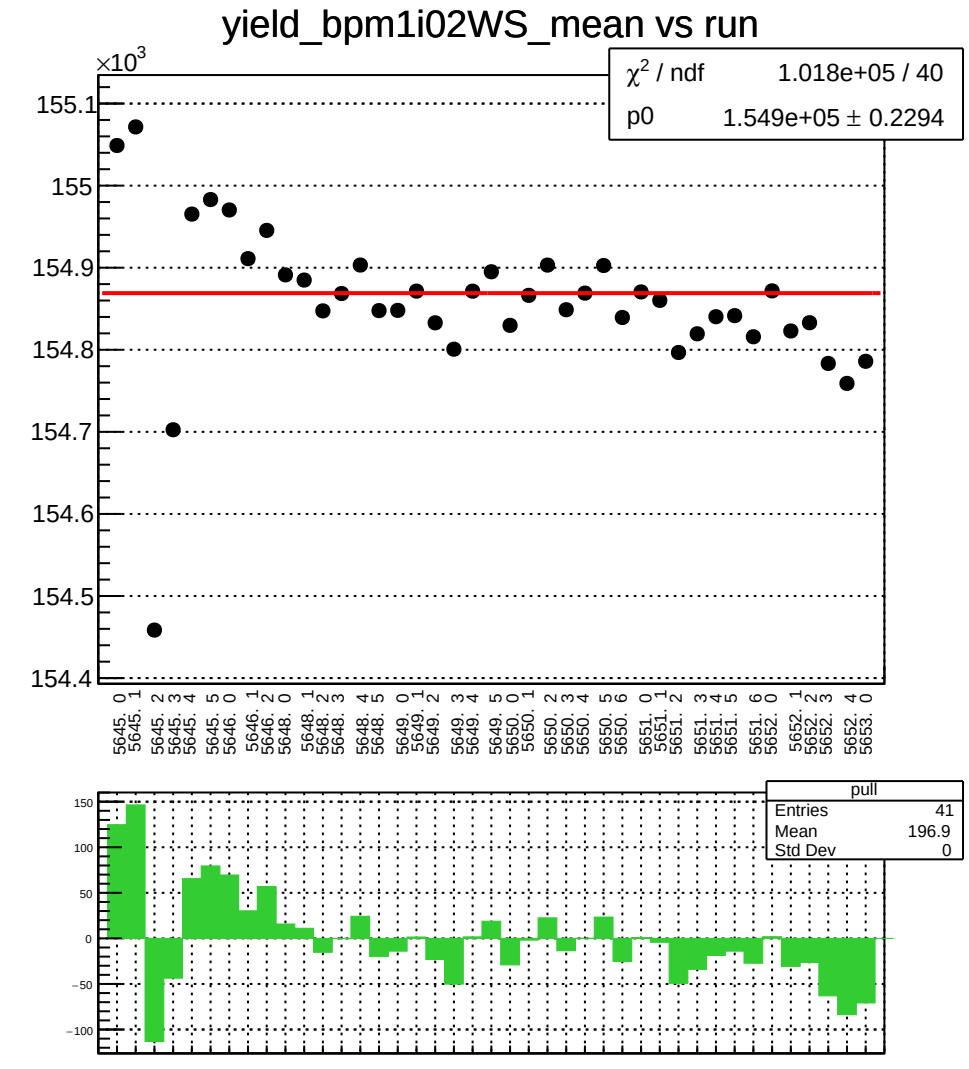

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 7.107e+04 / 40
p0 1.391e+05 ± 0.2359
139.3
139.2
139.1
139
138.9
138.8
138.7
138.6
pull
Entries 41
Mean −16.41
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

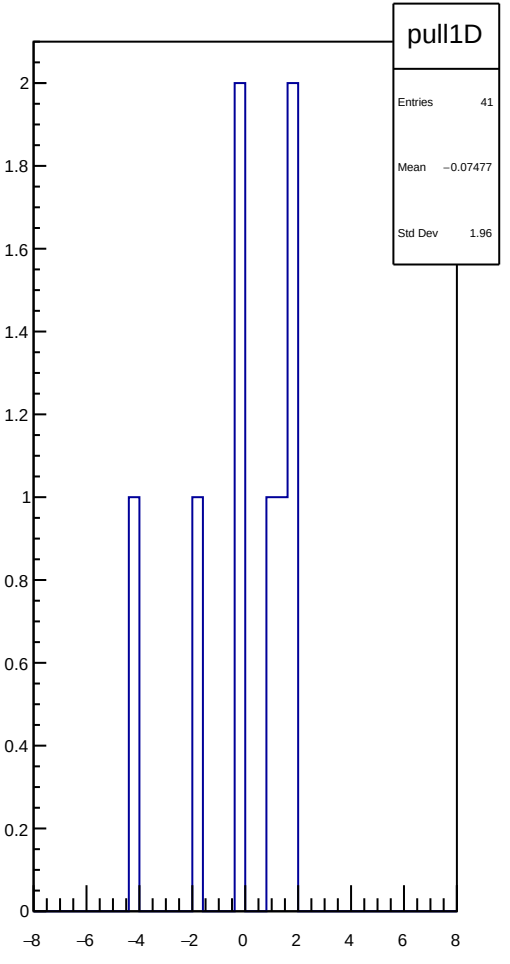

pull1D
Entries 41
Mean −4.993
Std Dev 2.579
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

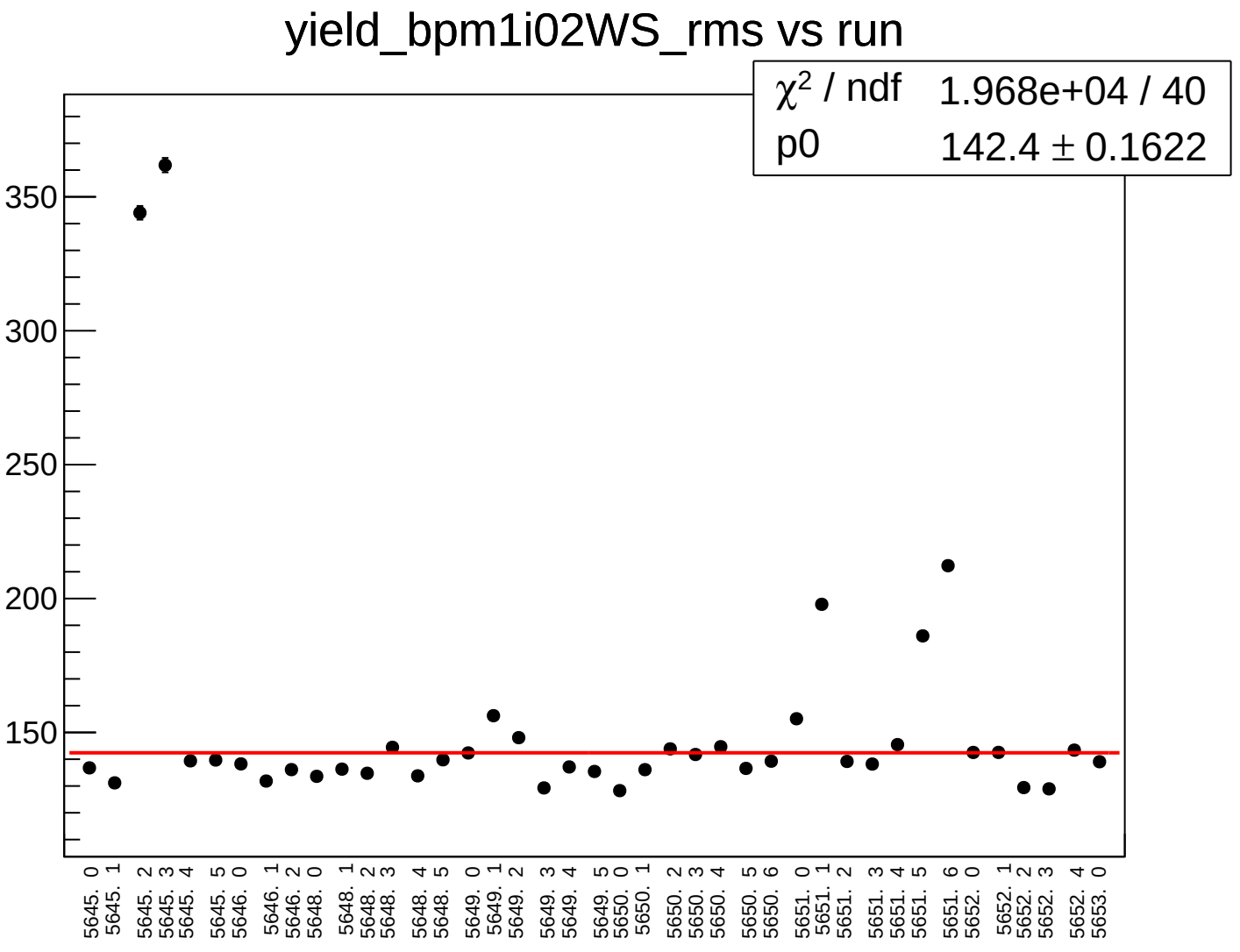

yield_bpm0i05WS_rms vs run
χ² / ndf 1.897e+04 / 40
p0 146.5 ± 0.1668
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

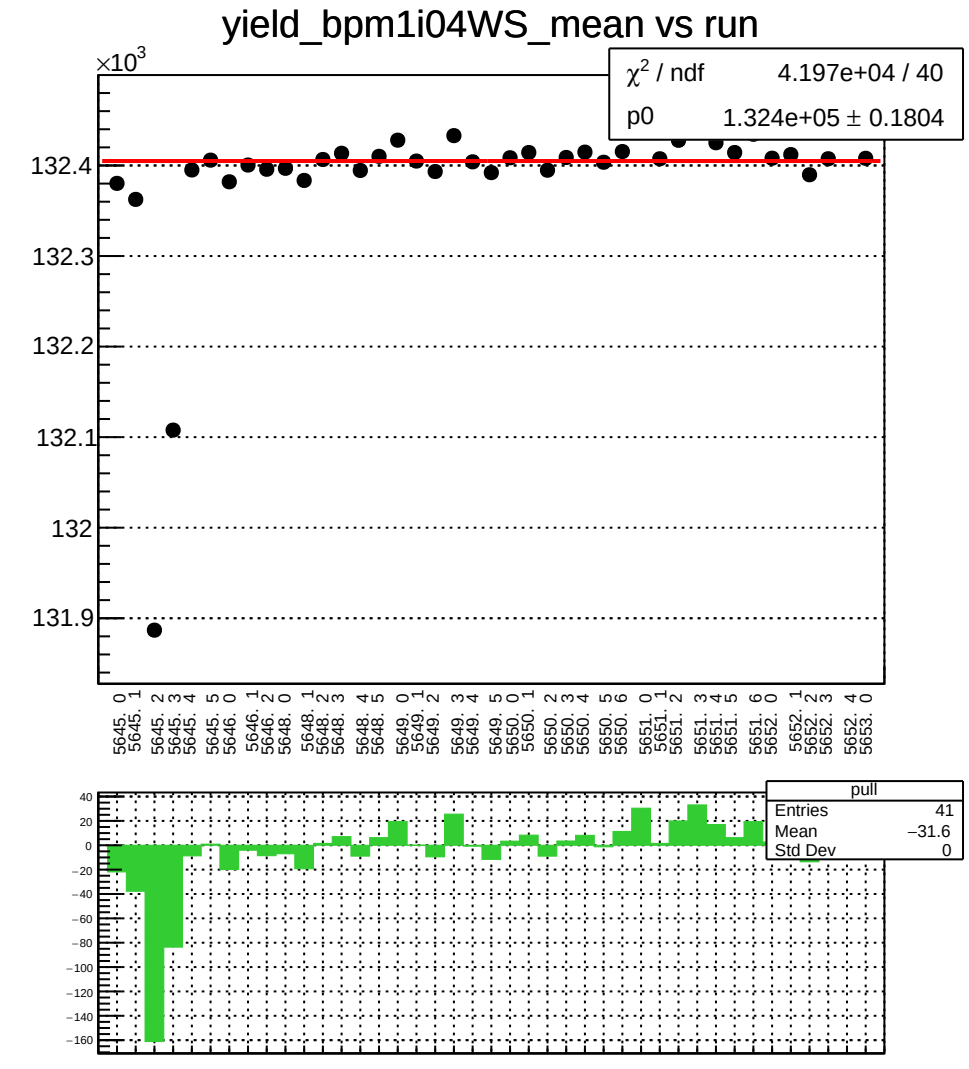

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.576e+05 / 40
p0 1.529e+05 ± 0.268
153.2
153
152.8
152.6
152.4
152.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −132
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 41
Mean 1.406
Std Dev 3.373
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

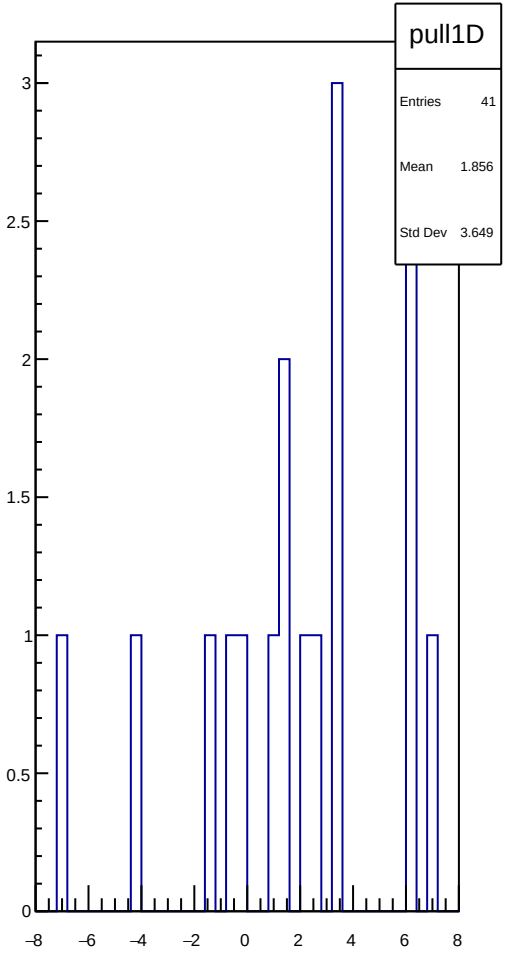

yield_bpm0i07WS_rms vs run
χ² / ndf 1.57e+04 / 40
p0 166.8 ± 0.1895
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

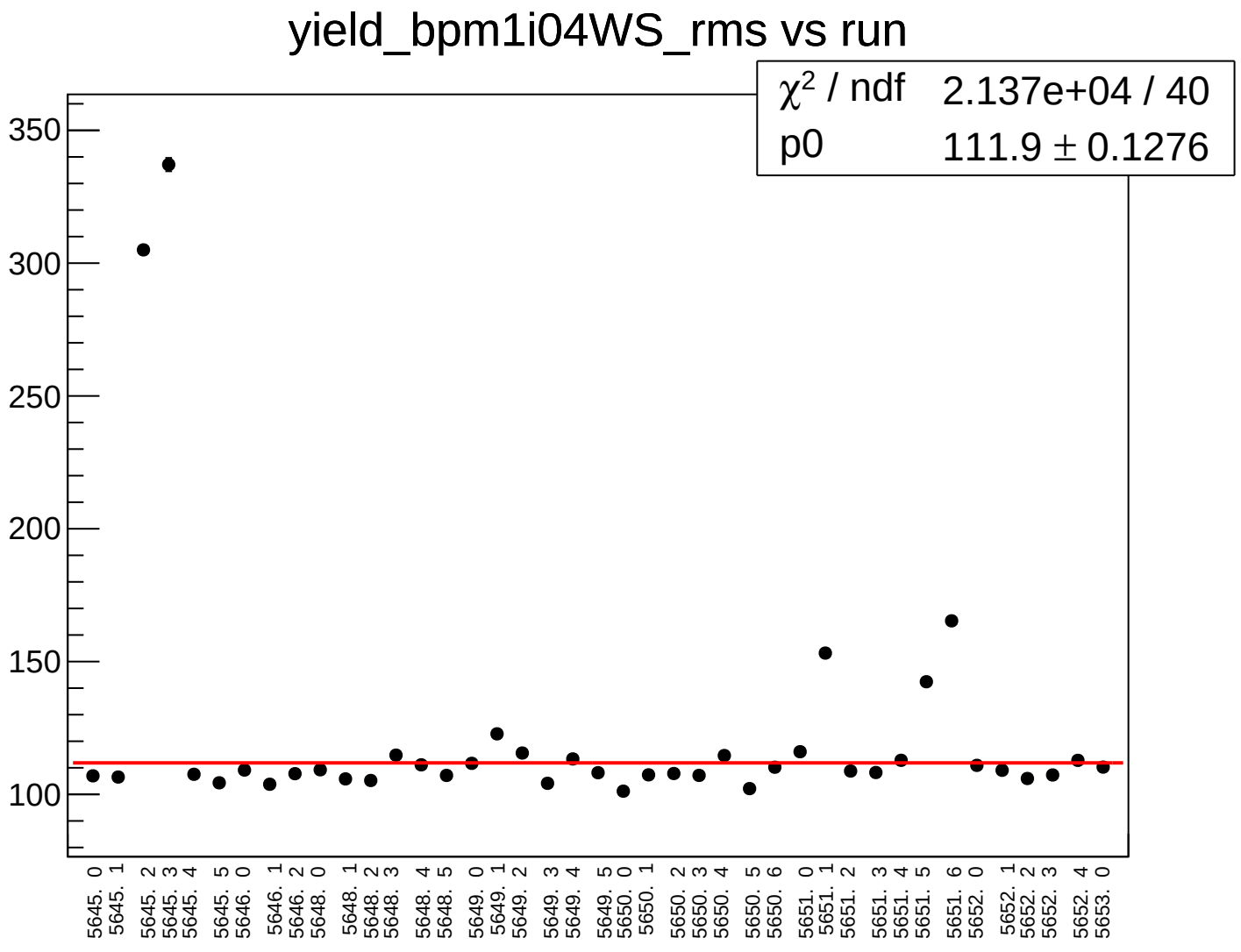

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.018e+05 / 40
p0 1.549e+05 ± 0.2294
155.1
155
154.9
154.8
154.7
154.6
154.5
154.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 196.9
Std Dev 0
150
100
50
0
−50
−100

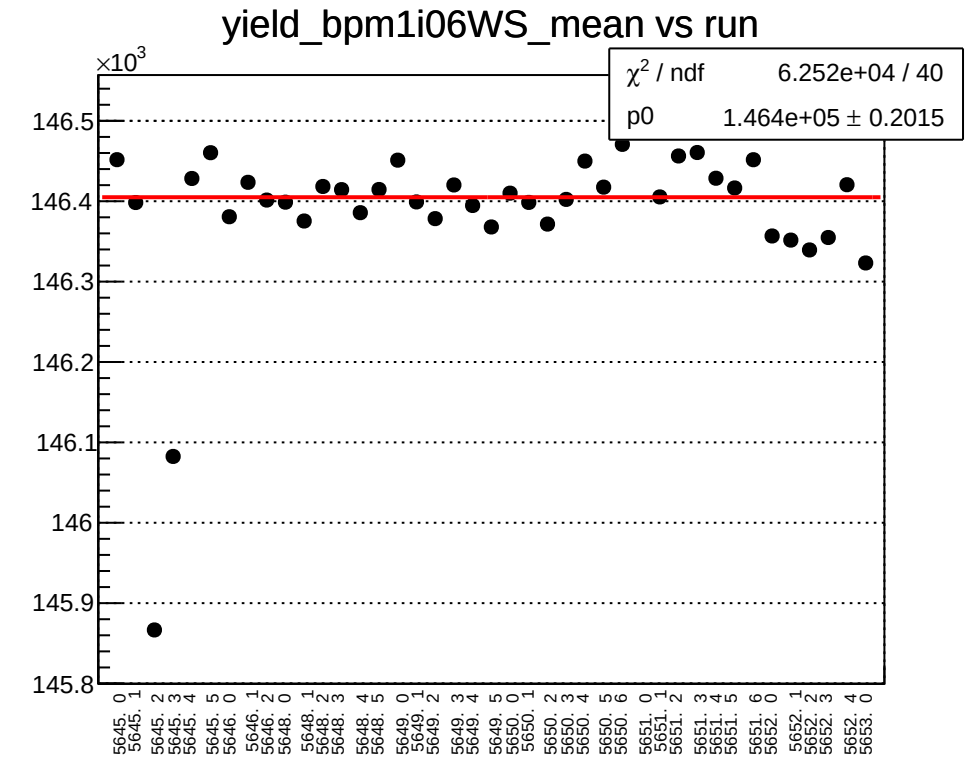

pull1D
Entries 41
Mean −0.07477
Std Dev 1.96
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

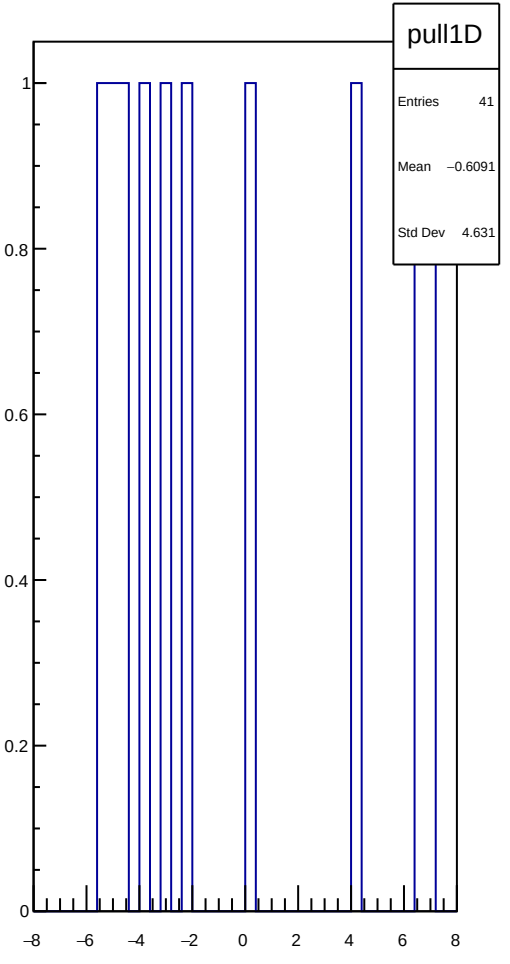

yield_bpm1i02WS_rms vs run
χ² / ndf 1.968e+04 / 40
p0 142.4 ± 0.1622
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

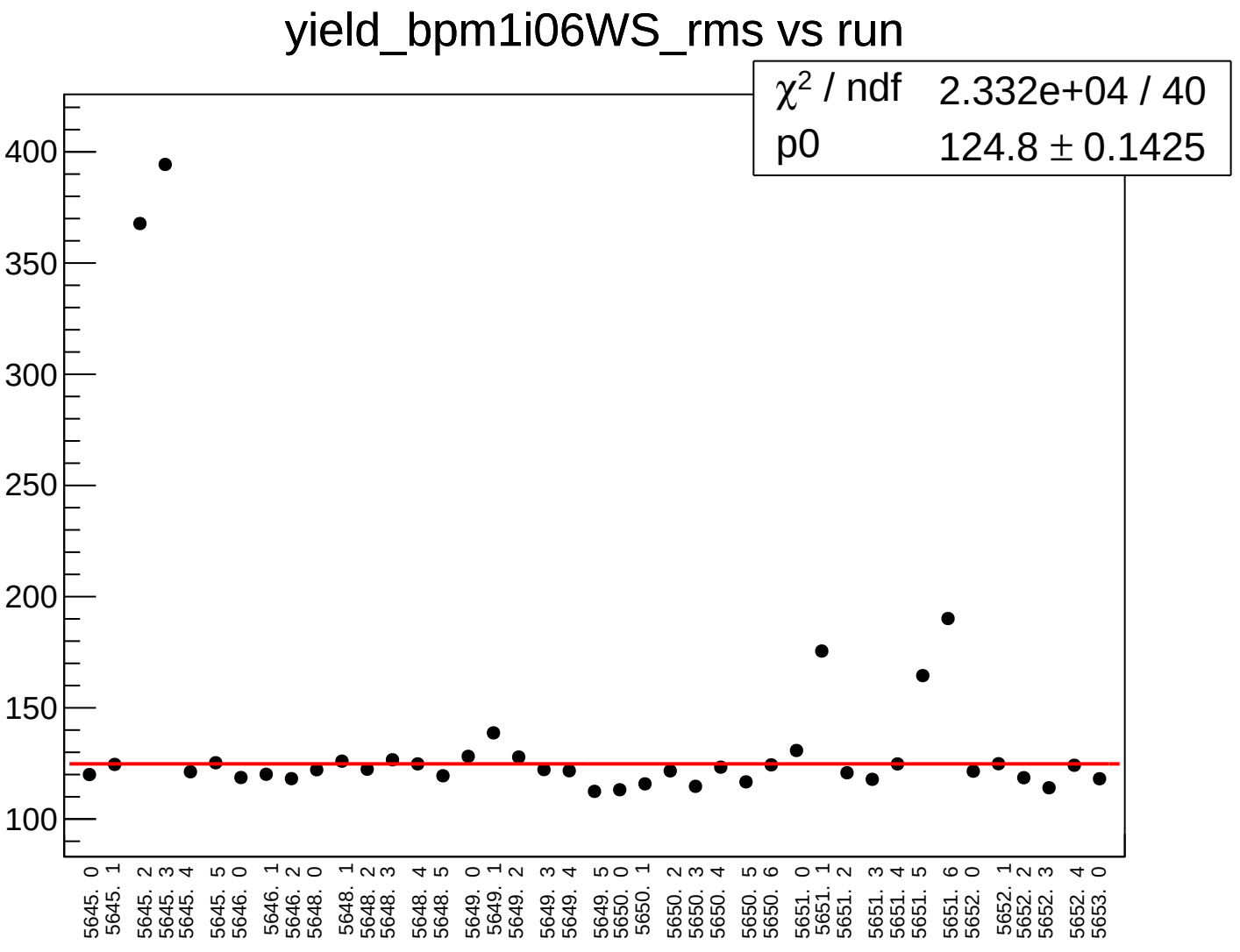

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 4.197e+04 / 40
p0 1.324e+05 ± 0.1804
132.4
132.3
132.2
132.1
132
131.9
pull
Entries 41
Mean −31.6
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160

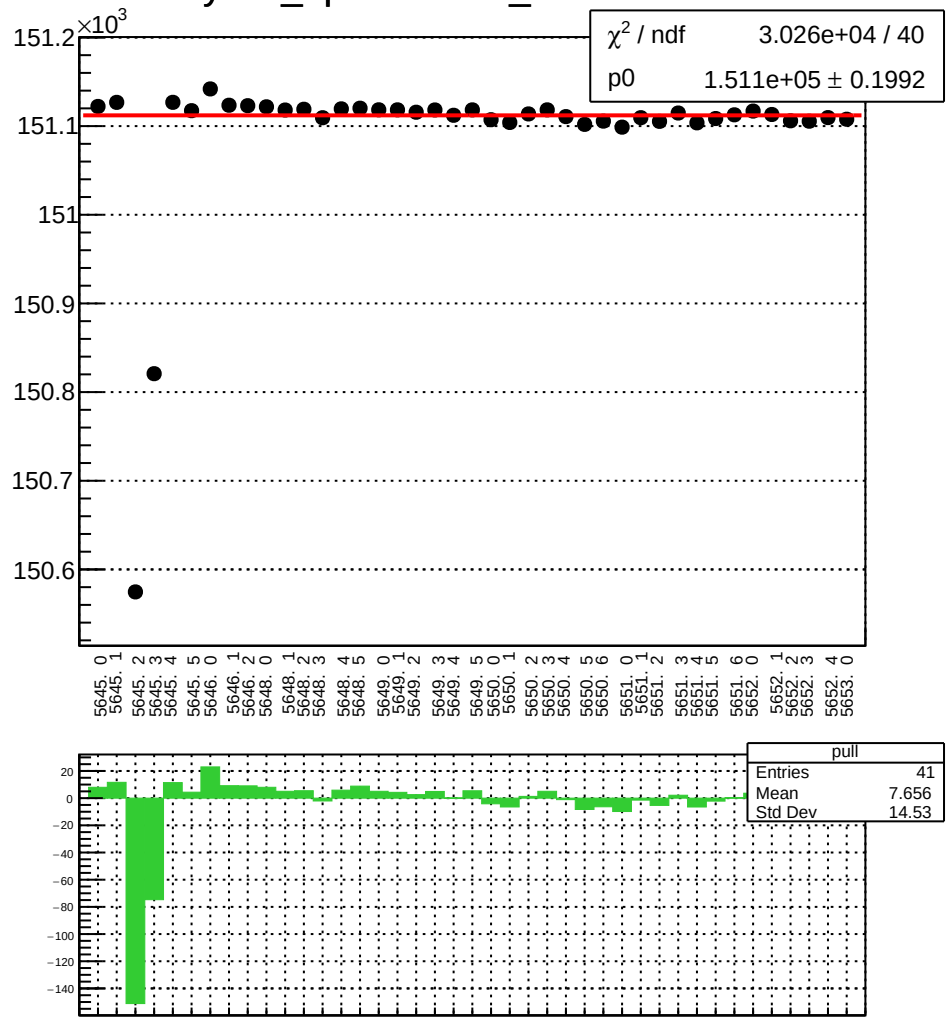

pull1D
Entries 41
Mean 1.856
Std Dev 3.649
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

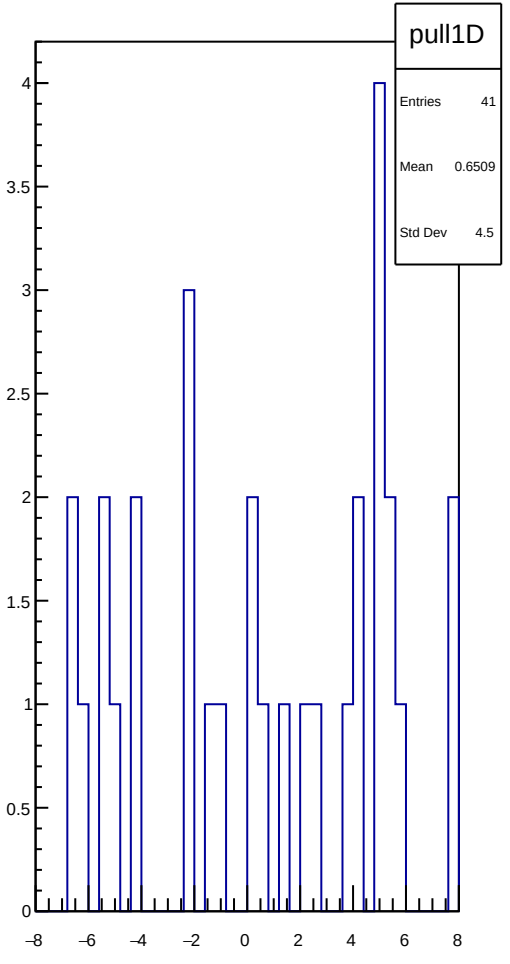

yield_bpm1i04WS_rms vs run
χ² / ndf 2.137e+04 / 40
p0 111.9 ± 0.1276
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

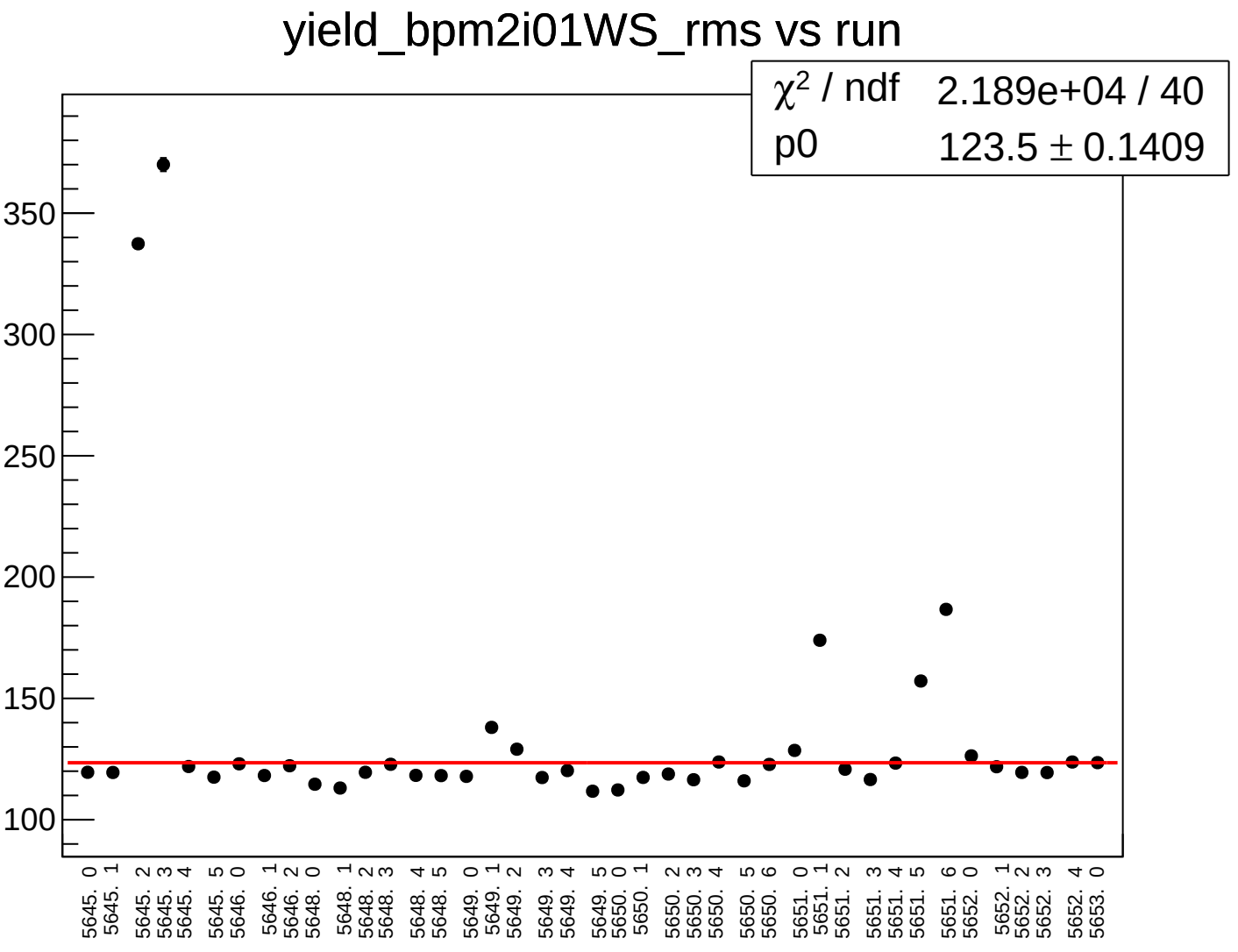

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.252e+04 / 40
p0 1.464e+05 ± 0.2015
146.5
146.4
146.3
146.2
146.1
146
145.9
145.8
pull
Entries 41
Mean 13.81
Std Dev 26.32
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

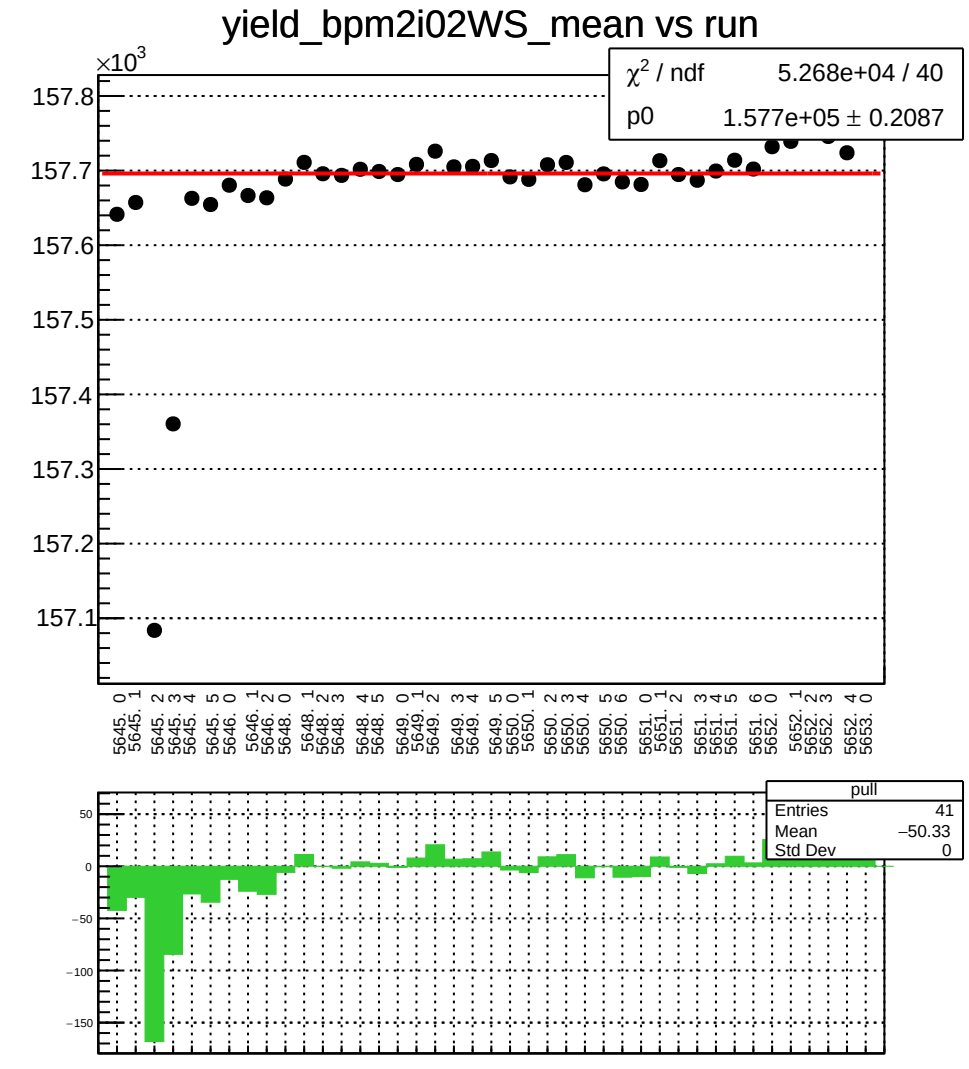

pull1D
Entries 41
Mean −0.6091
Std Dev 4.631
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

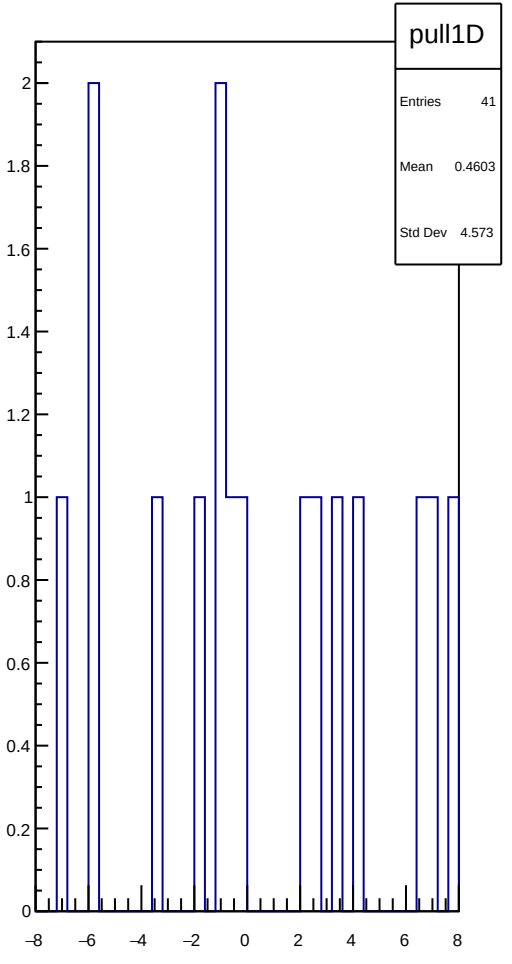

yield_bpm1i06WS_rms vs run
χ² / ndf 2.332e+04 / 40
p0 124.8 ± 0.1425
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

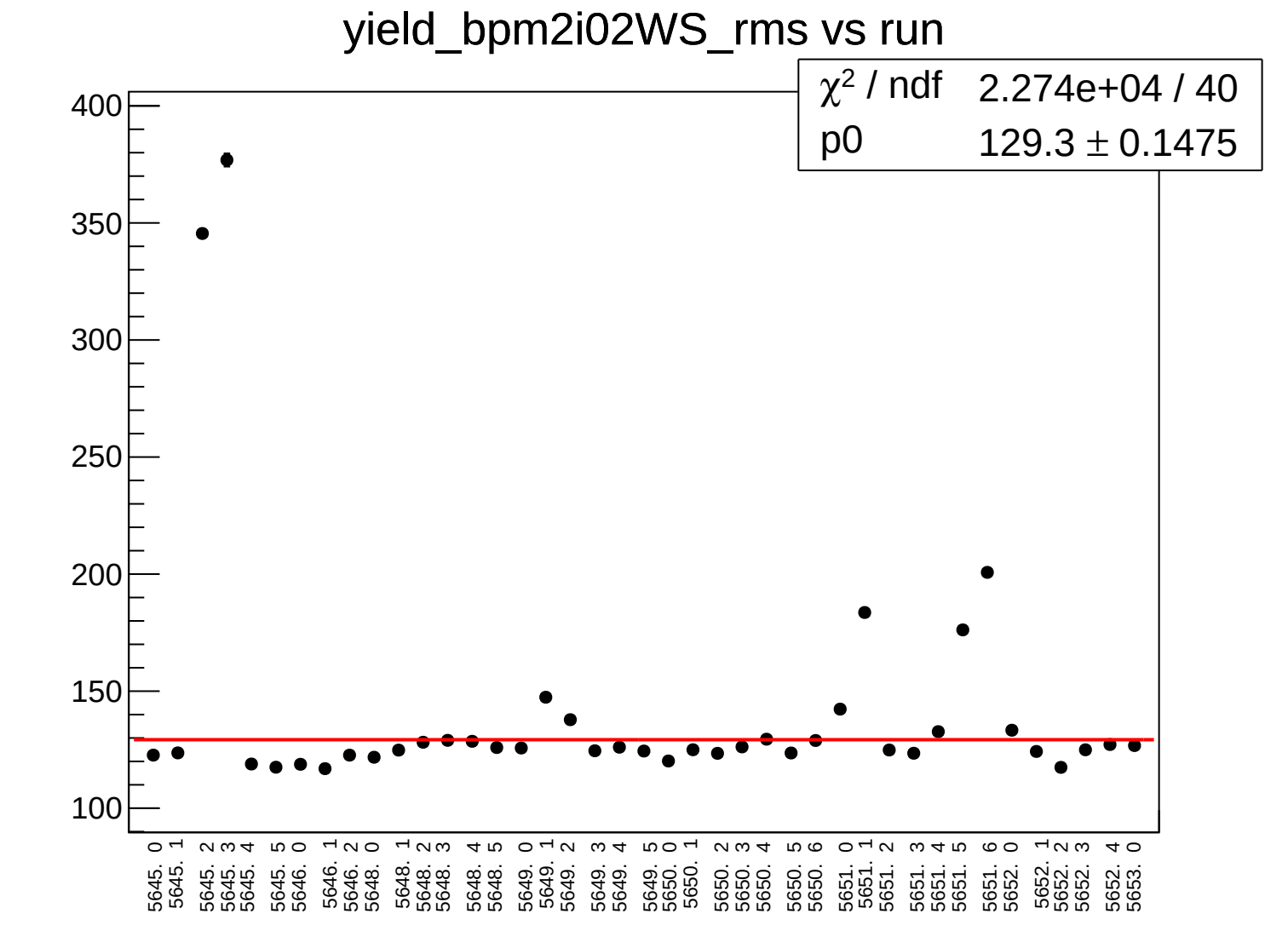

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.026e+04 / 40
p0 1.511e+05 ± 0.1992
151.2
151.1
151
150.9
150.8
150.7
150.6
pull
Entries 41
Mean 7.656
Std Dev 14.53

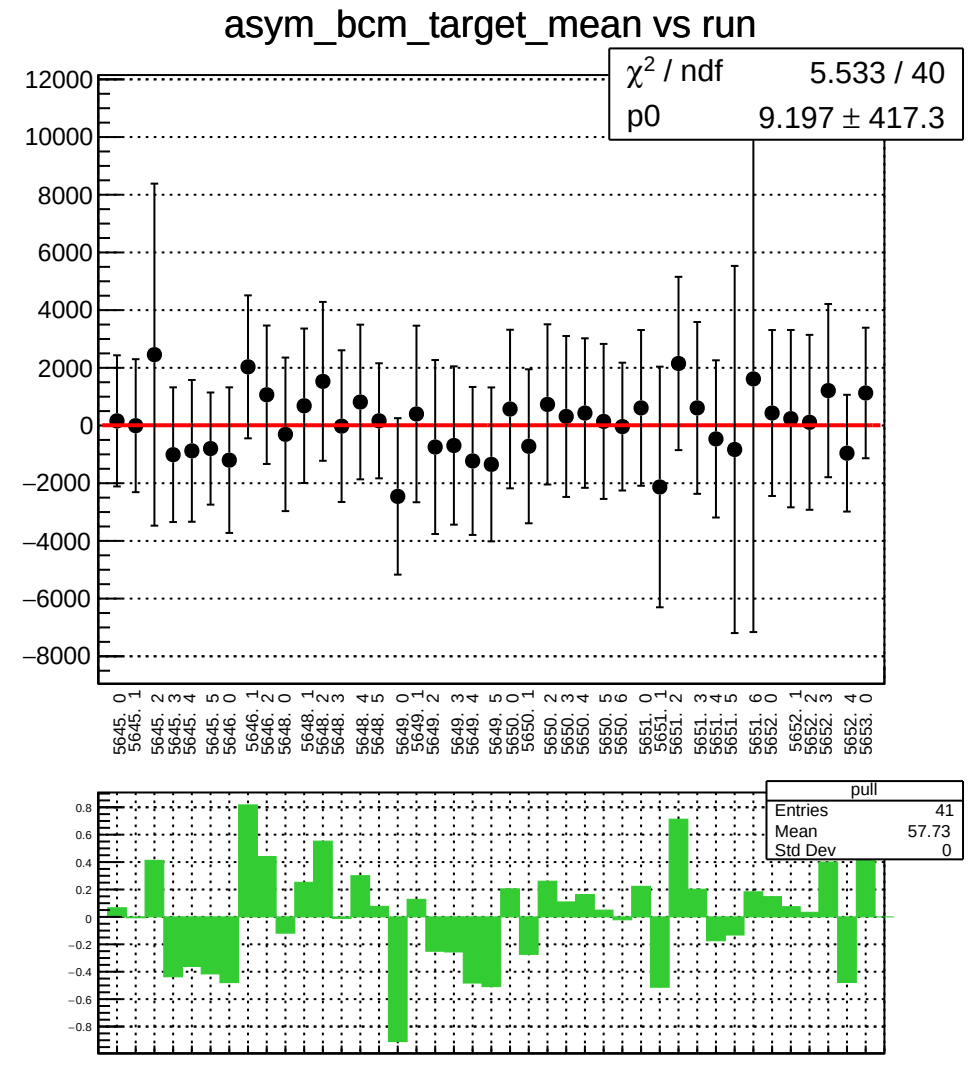

pull1D
Entries 41
Mean 0.6509
Std Dev 4.5

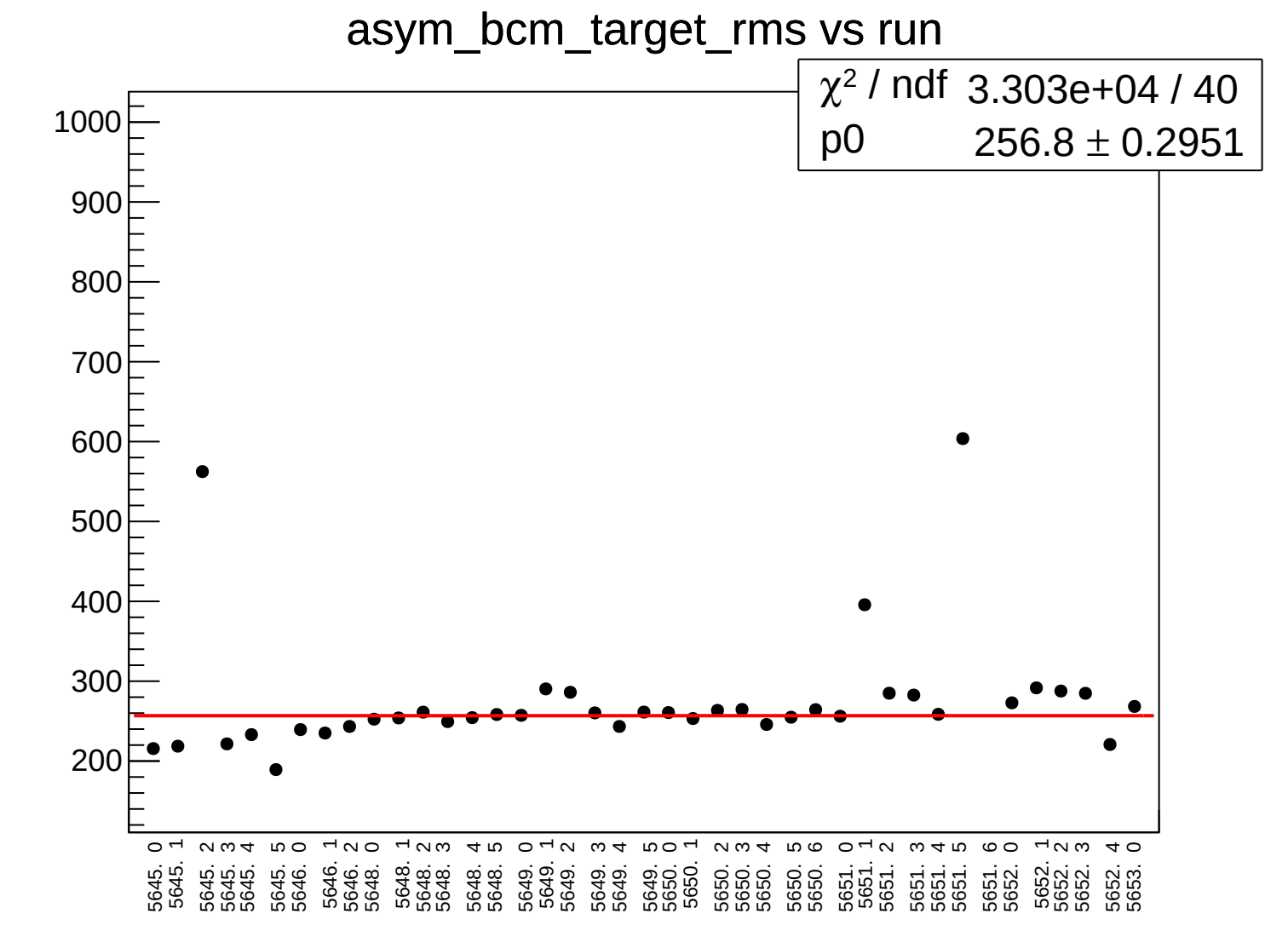

yield_bpm2i01WS_rms vs run
χ² / ndf 2.189e+04 / 40
p0 123.5 ± 0.1409
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

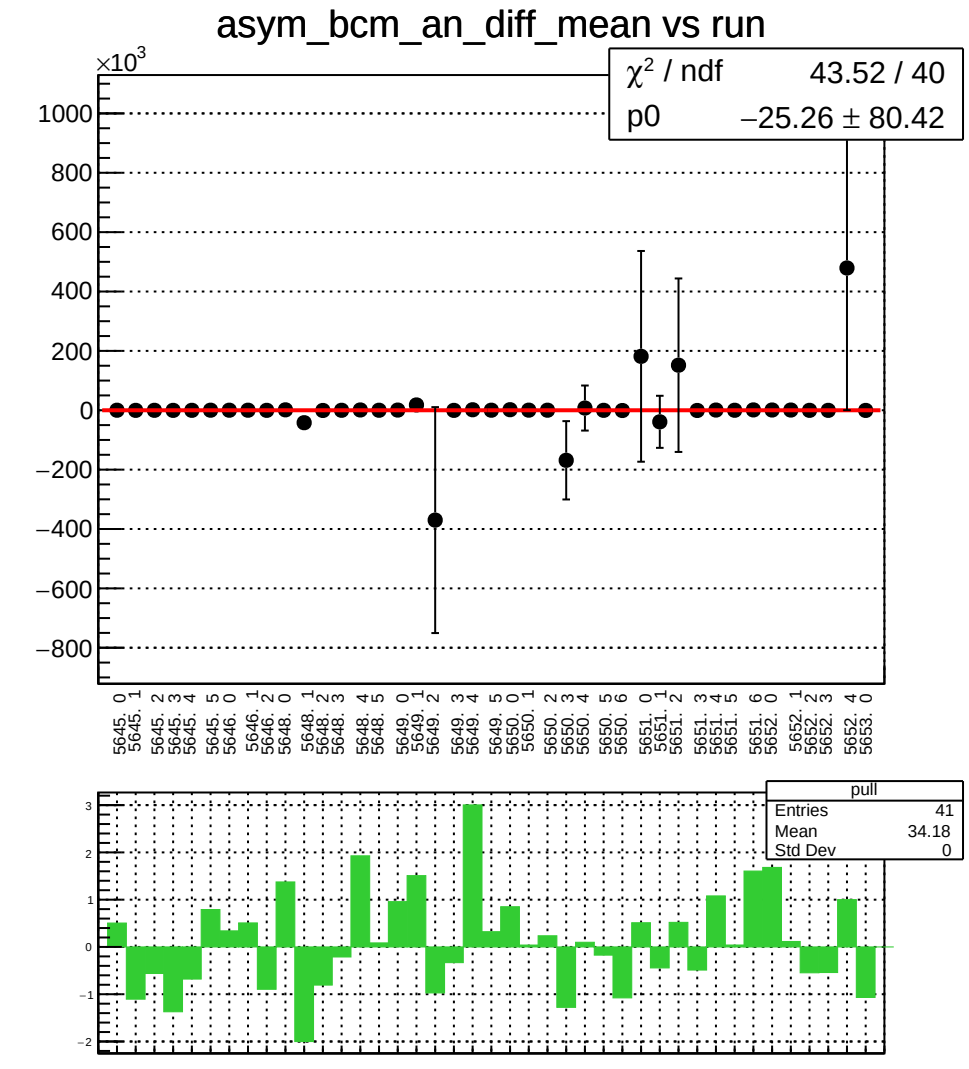

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 5.268e+04 / 40
p0 1.577e+05 ± 0.2087
157.8
157.7
157.6
157.5
157.4
157.3
157.2
157.1
pull
Entries 41
Mean −50.33
Std Dev 0
50
0
−50
−100
−150

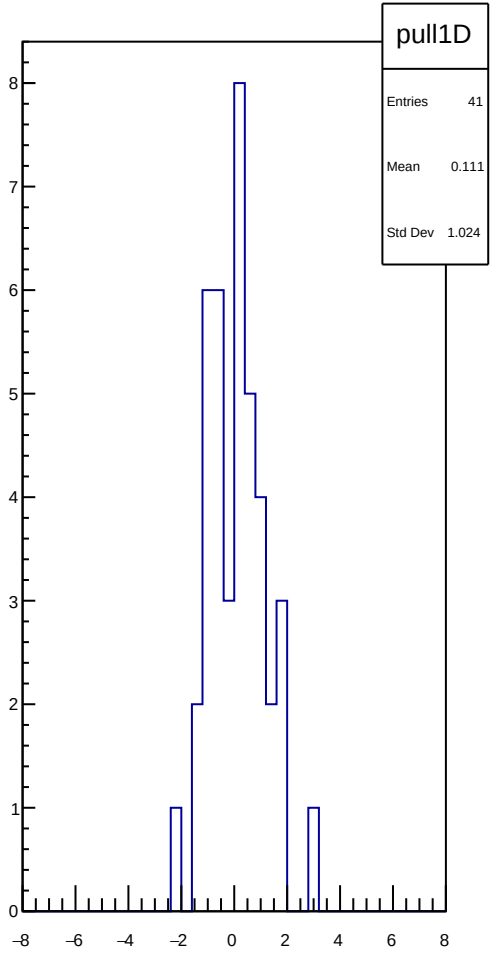

pull1D
Entries 41
Mean 0.4603
Std Dev 4.573
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

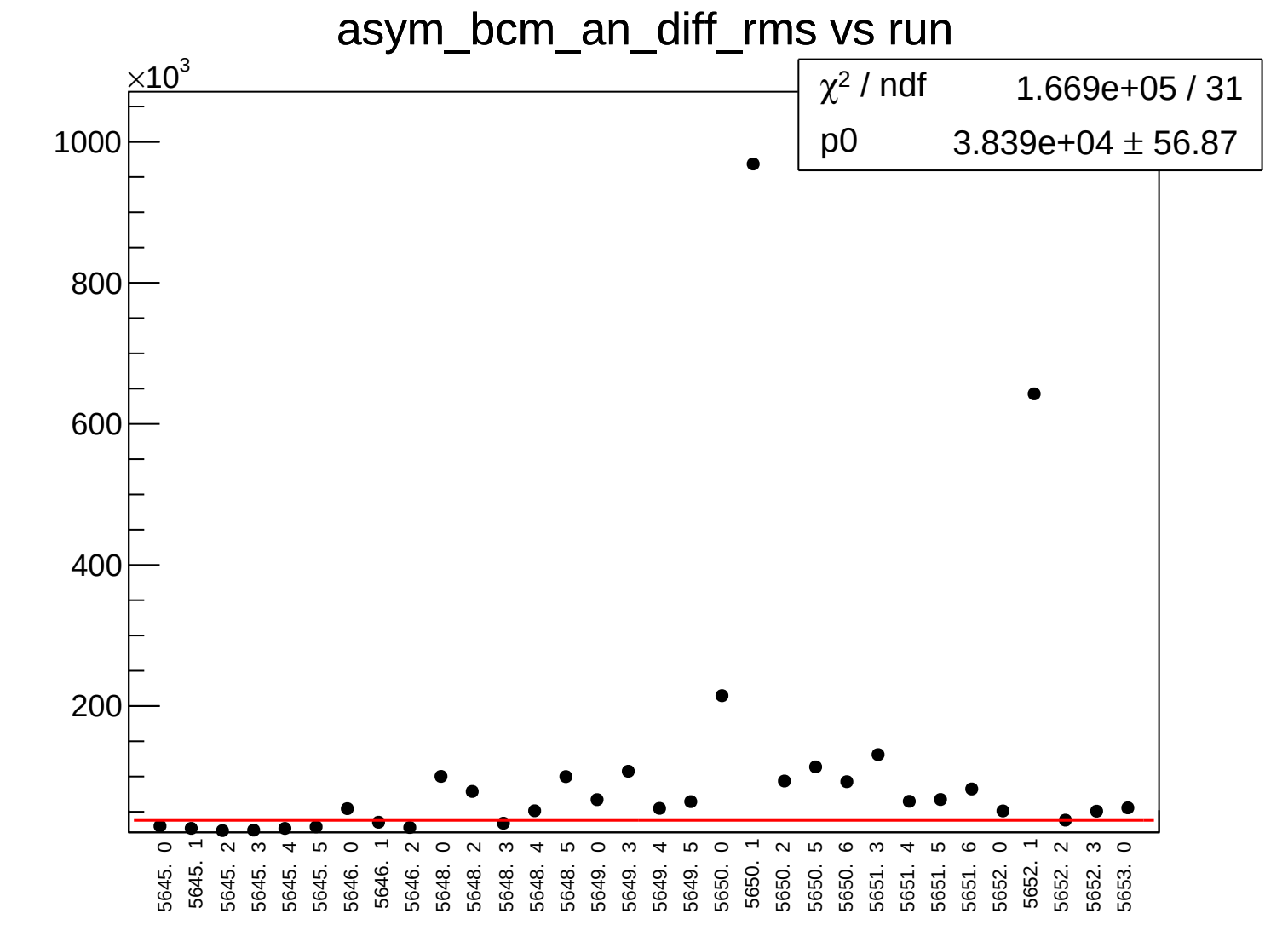

yield_bpm2i02WS_rms vs run
χ² / ndf 2.274e+04 / 40
p0 129.3 ± 0.1475
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

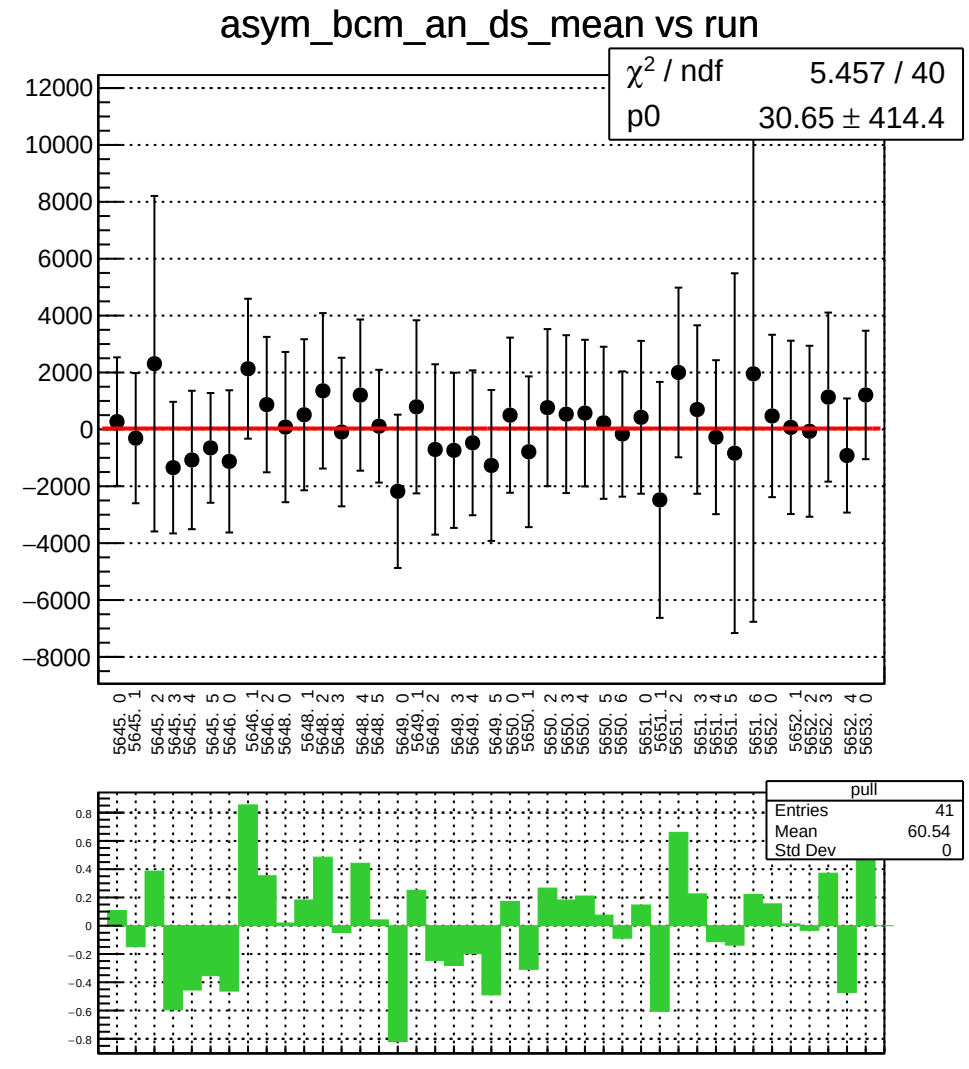

asym_bcm_target_mean vs run
χ² / ndf 5.533 / 40
p0 9.197 ± 417.3
pull
Entries 41
Mean 57.73
Std Dev 0
pull1D
Entries 41
Mean 0.01166
Std Dev 0.3672

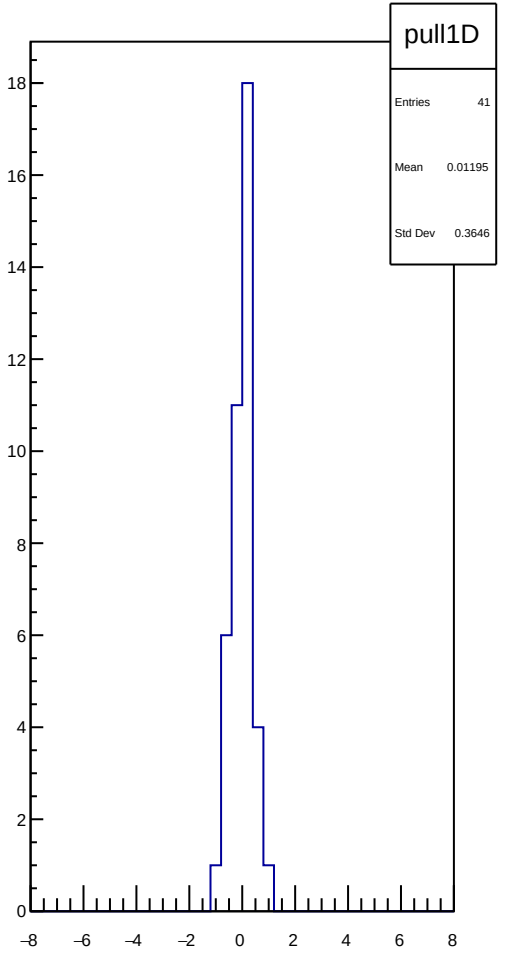

asym_bcm_target_rms vs run
χ² / ndf 3.303e+04 / 40
p0 256.8 ± 0.2951
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

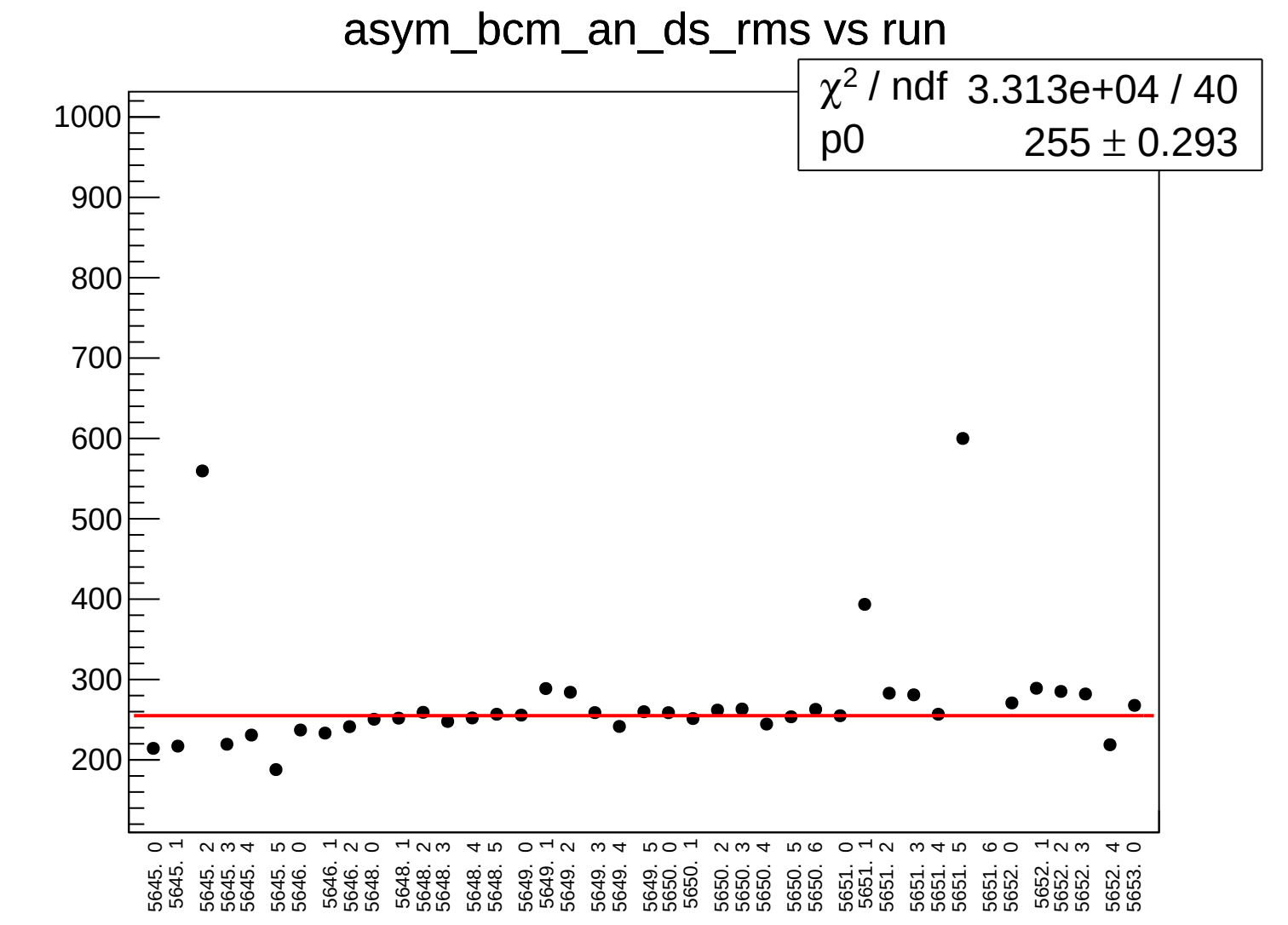

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 43.52 / 40
p0 −25.26 ± 80.42
1000
800
600
400
200
0
−200
−400
−600
−800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.18
Std Dev 0
3
2
1
0
−1
−2

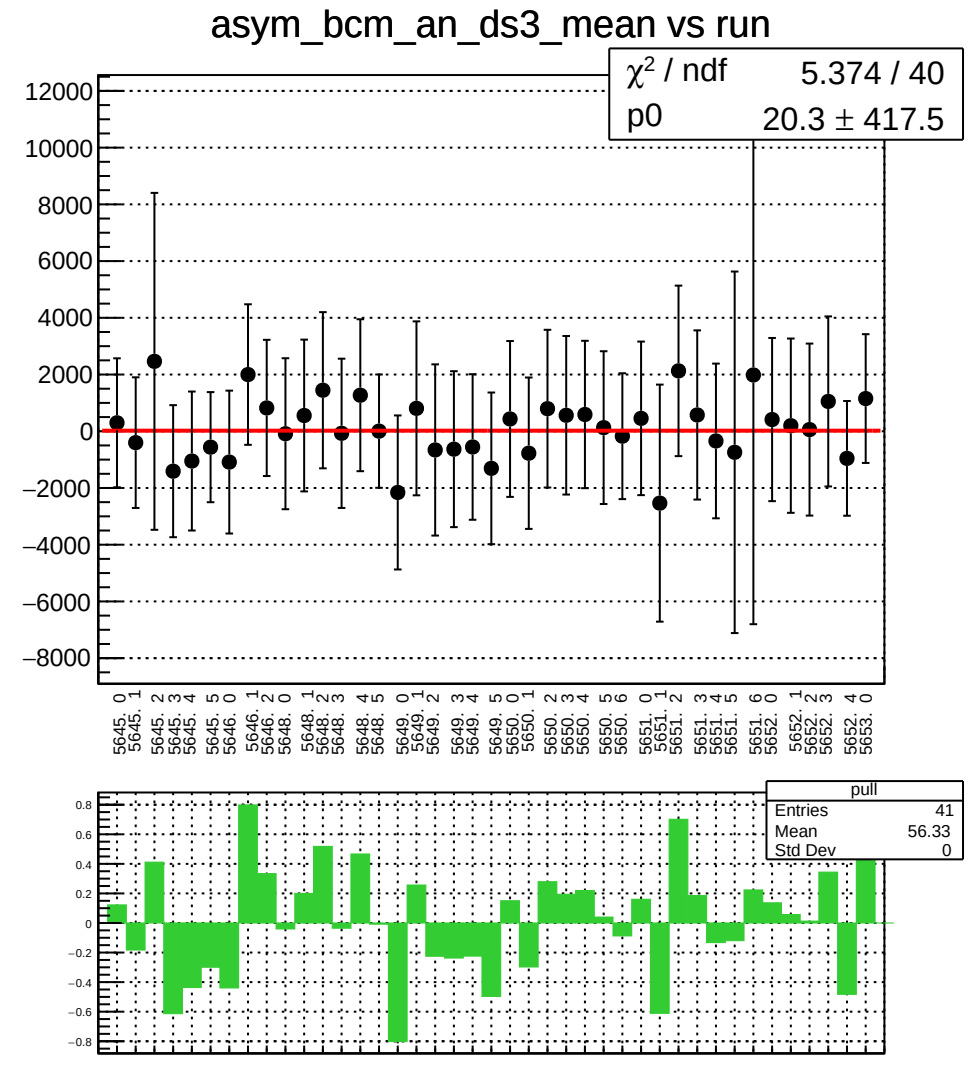

pull1D
Entries 41
Mean 0.111
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

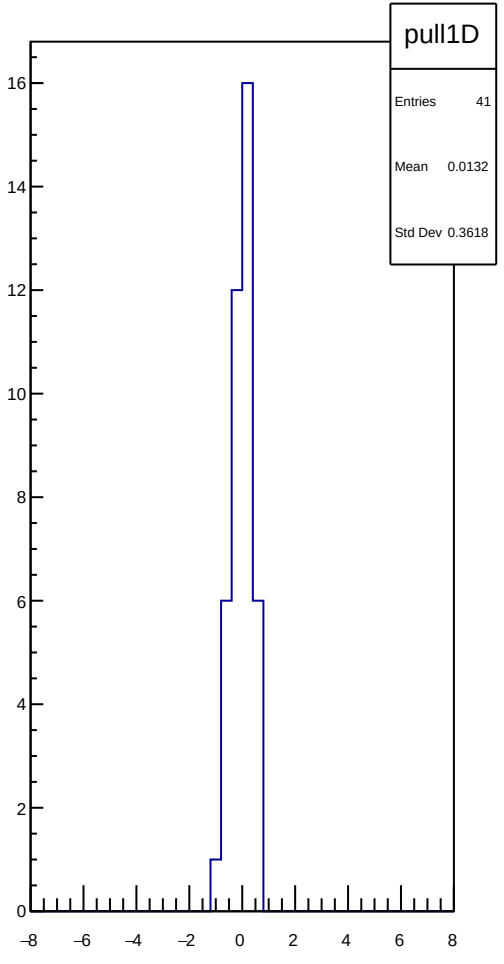

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.669e+05 / 31
p0 3.839e+04 ± 56.87
1000
800
600
400
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 5
5650. 6
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5653. 0

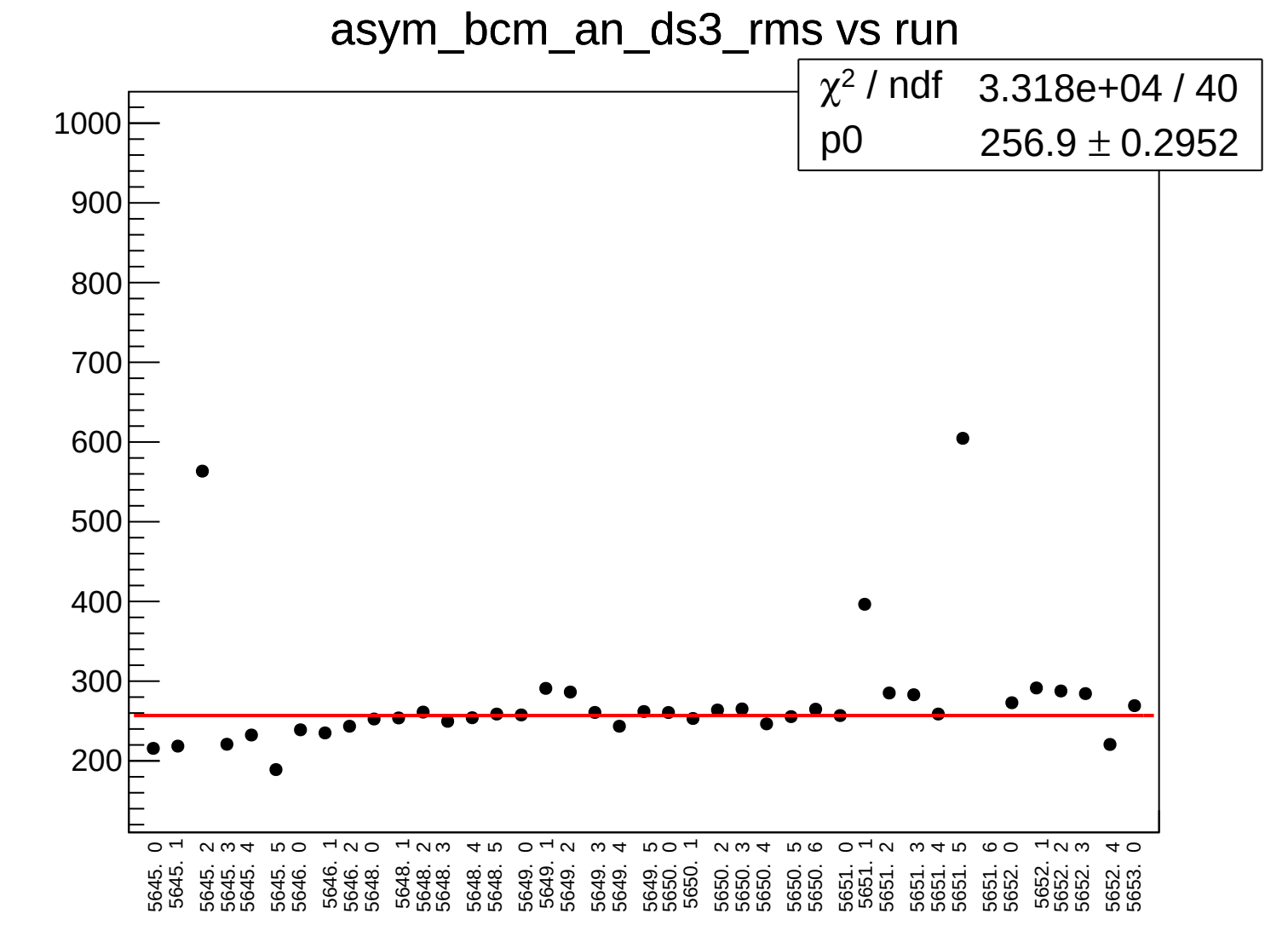

asym_bcm_an_ds_mean vs run
χ² / ndf 5.457 / 40
p0 30.65 ± 414.4
pull
Entries 41
Mean 60.54
Std Dev 0

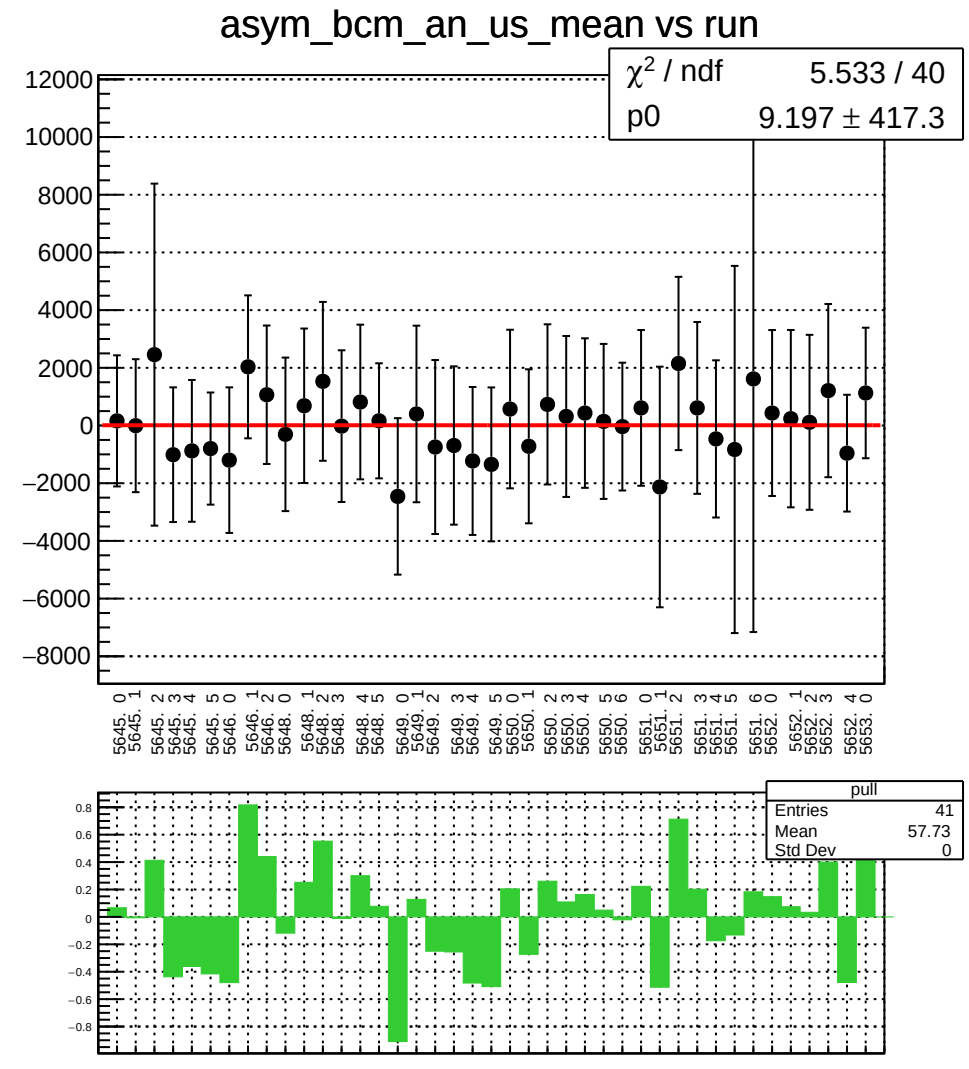

pull1D
Entries 41
Mean 0.01195
Std Dev 0.3646

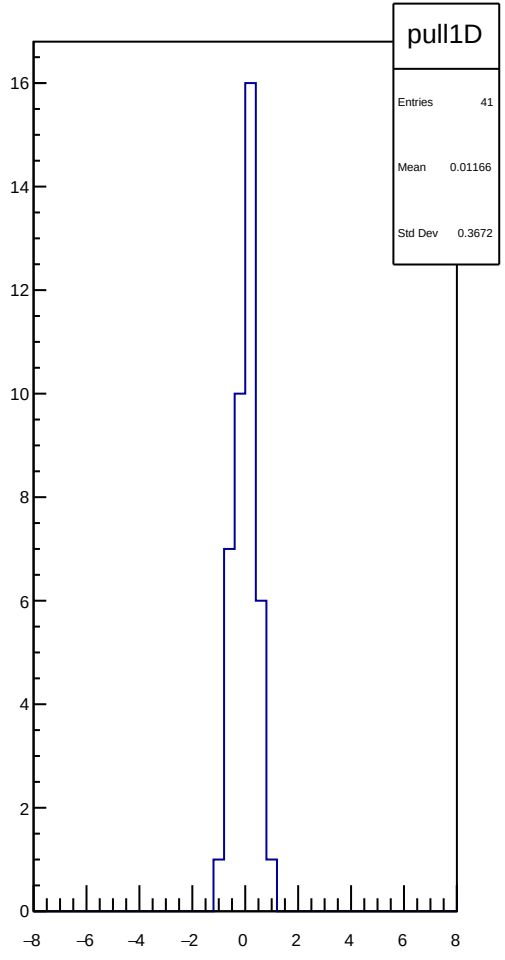

asym_bcm_an_ds_rms vs run
χ² / ndf 3.313e+04 / 40
p0 255 ± 0.293
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

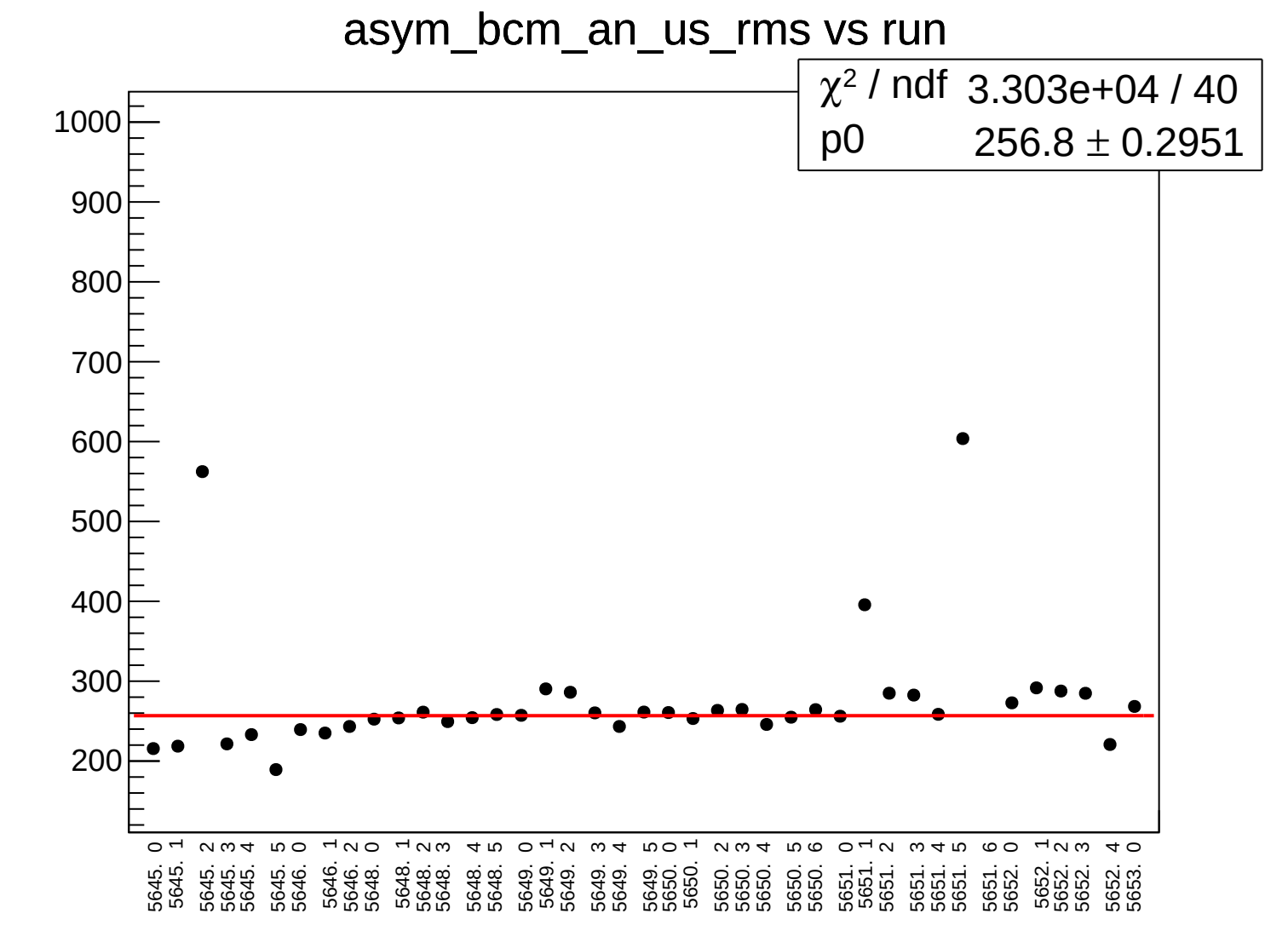

asym_bcm_an_ds3_mean vs run
χ² / ndf 5.374 / 40
p0 20.3 ± 417.5
pull
Entries 41
Mean 56.33
Std Dev 0

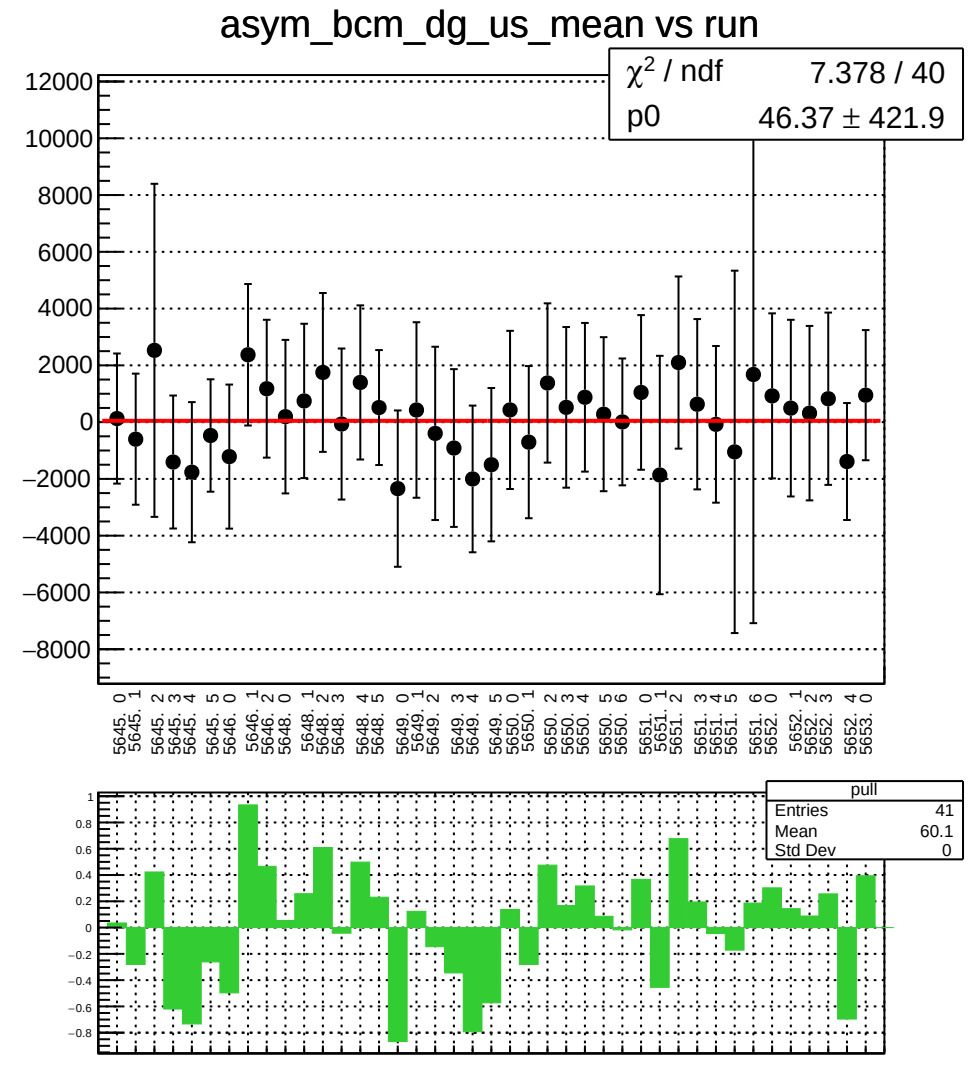

pull1D
Entries 41
Mean 0.0132
Std Dev 0.3618

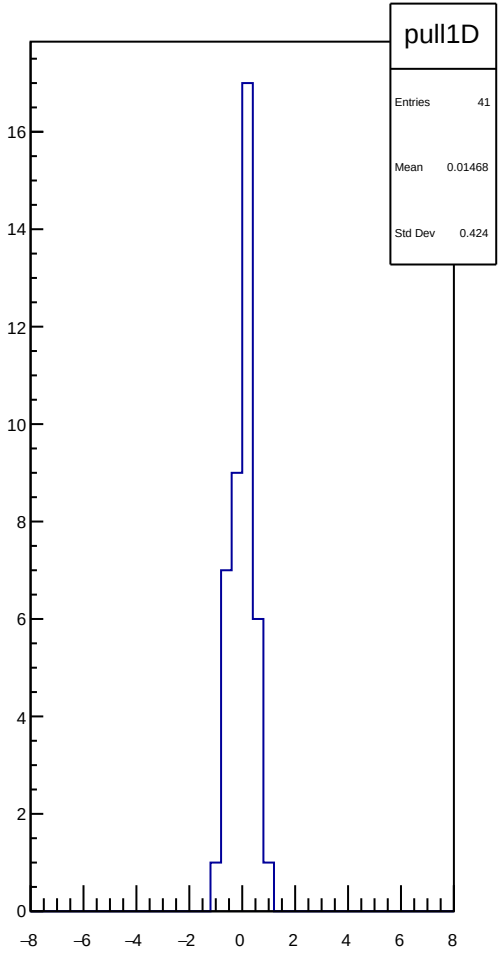

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.318e+04 / 40
p0 256.9 ± 0.2952
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

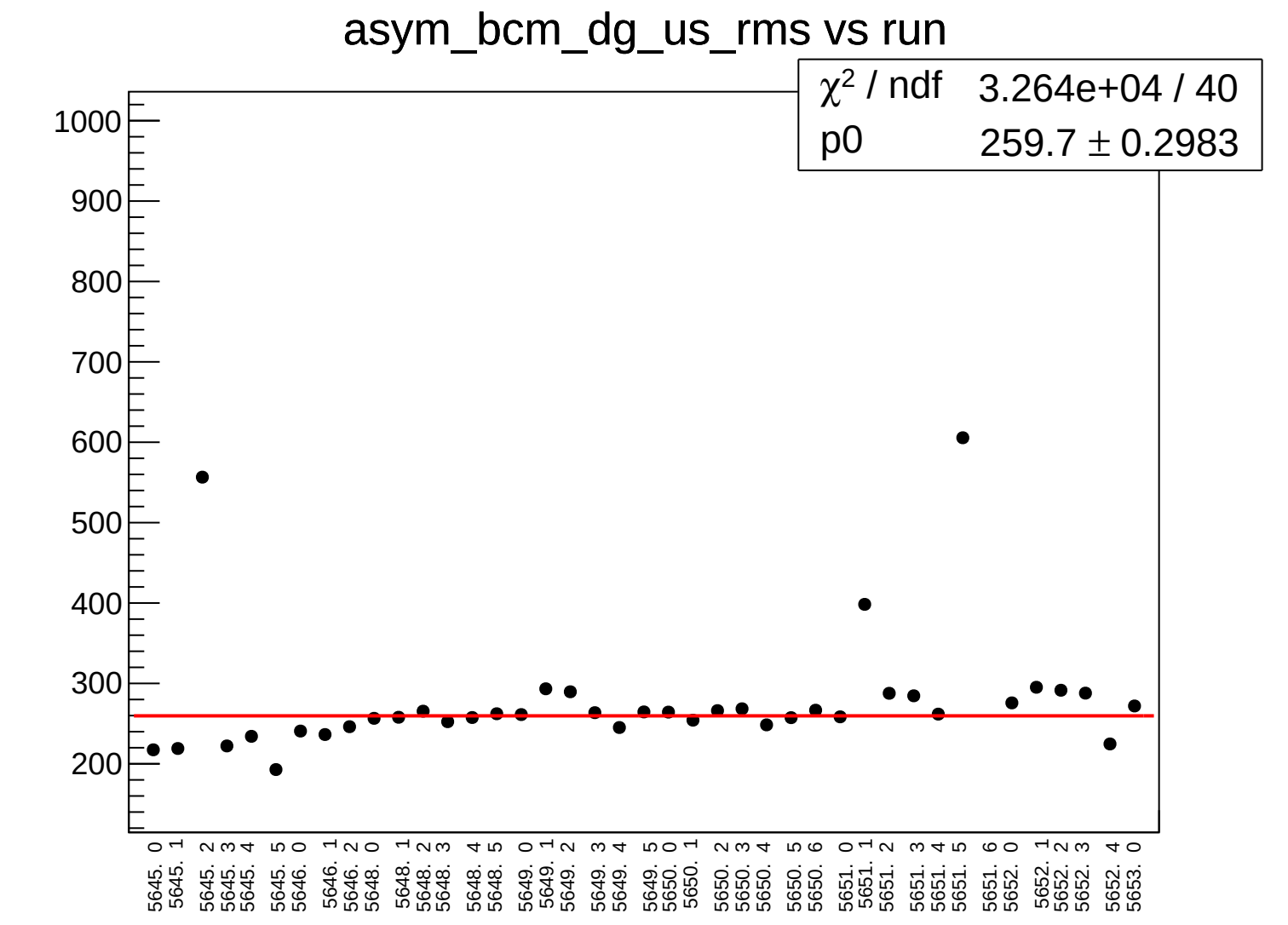

asym_bcm_an_us_mean vs run
χ² / ndf 5.533 / 40
p0 9.197 ± 417.3
pull
Entries 41
Mean 57.73
Std Dev 0

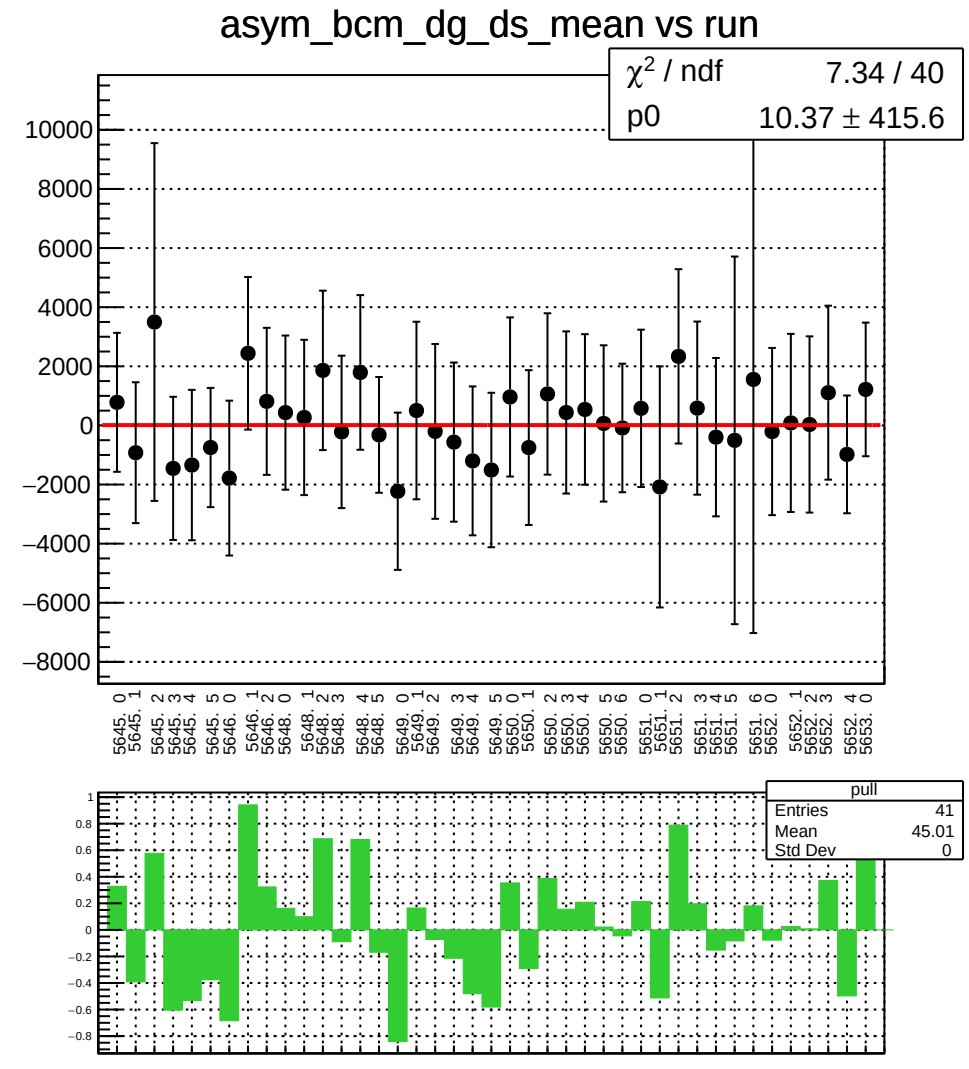

pull1D
Entries 41
Mean 0.01166
Std Dev 0.3672

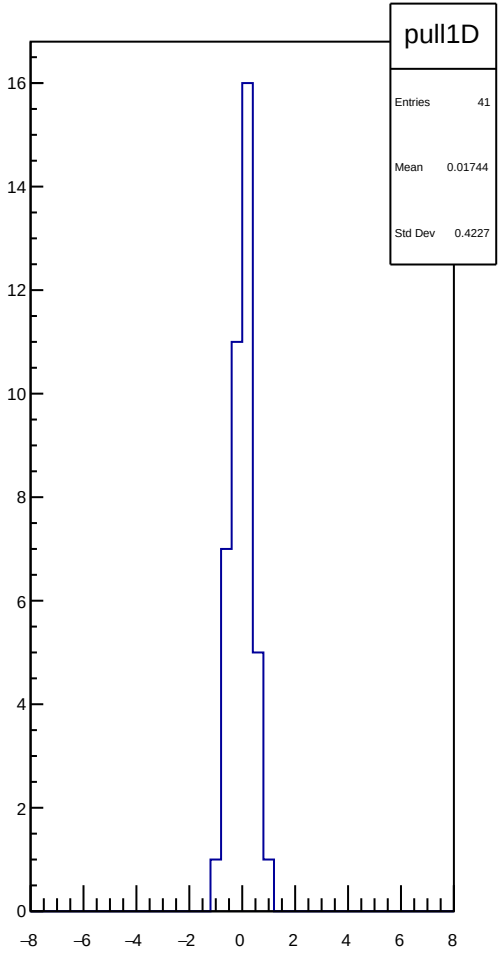

asym_bcm_an_us_rms vs run
χ² / ndf 3.303e+04 / 40
p0 256.8 ± 0.2951
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

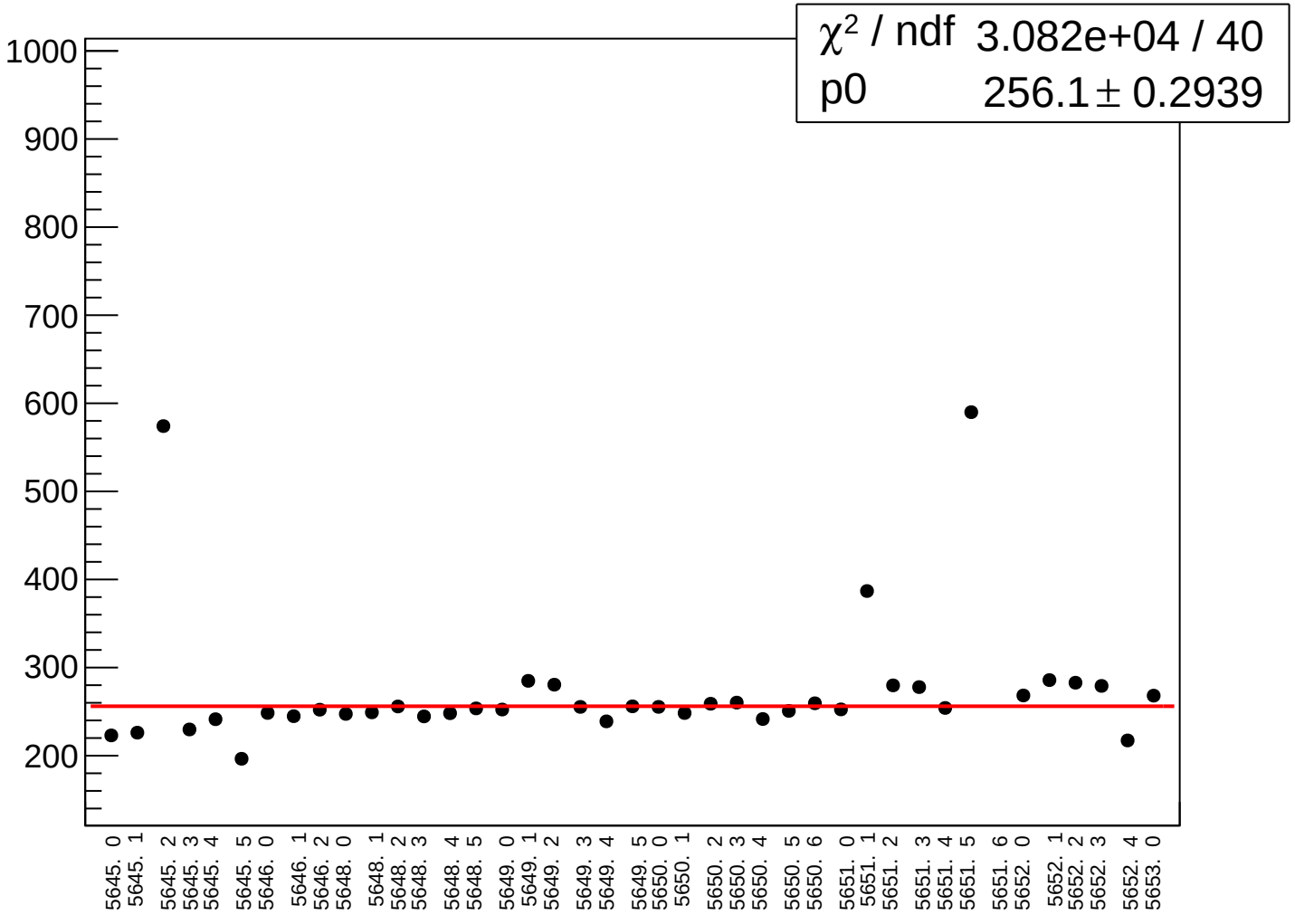

asym_bcm_dg_us_mean vs run
χ² / ndf 7.378 / 40
p0 46.37 ± 421.9
pull
Entries 41
Mean 60.1
Std Dev 0

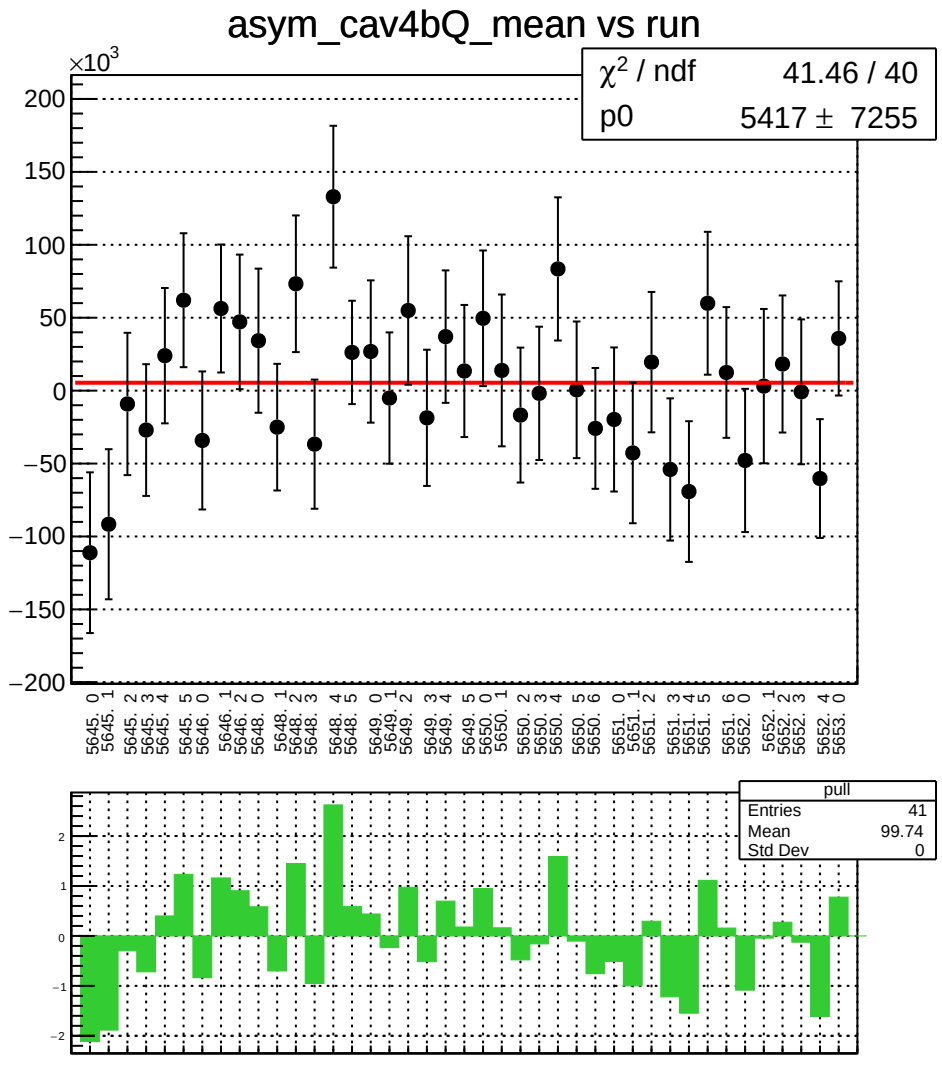

pull1D
Entries 41
Mean 0.01468
Std Dev 0.424

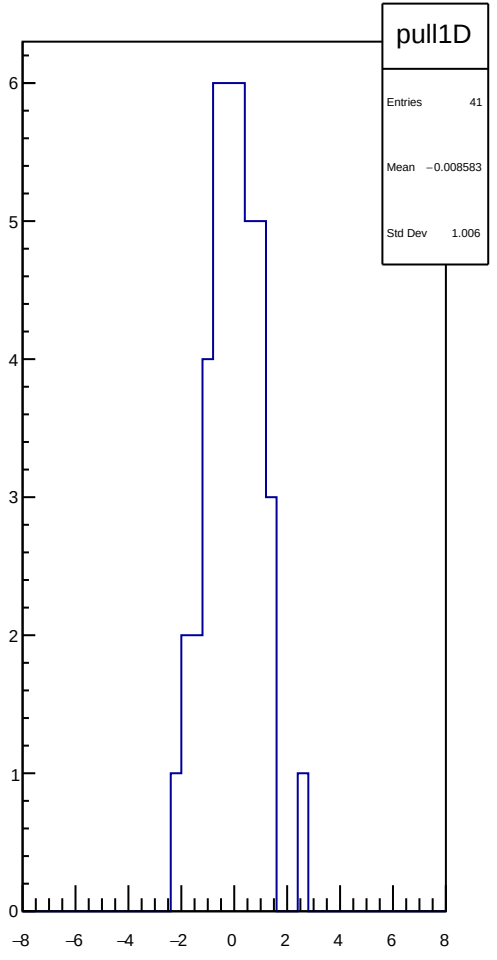

asym_bcm_dg_us_rms vs run
χ² / ndf 3.264e+04 / 40
p0 259.7 ± 0.2983
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

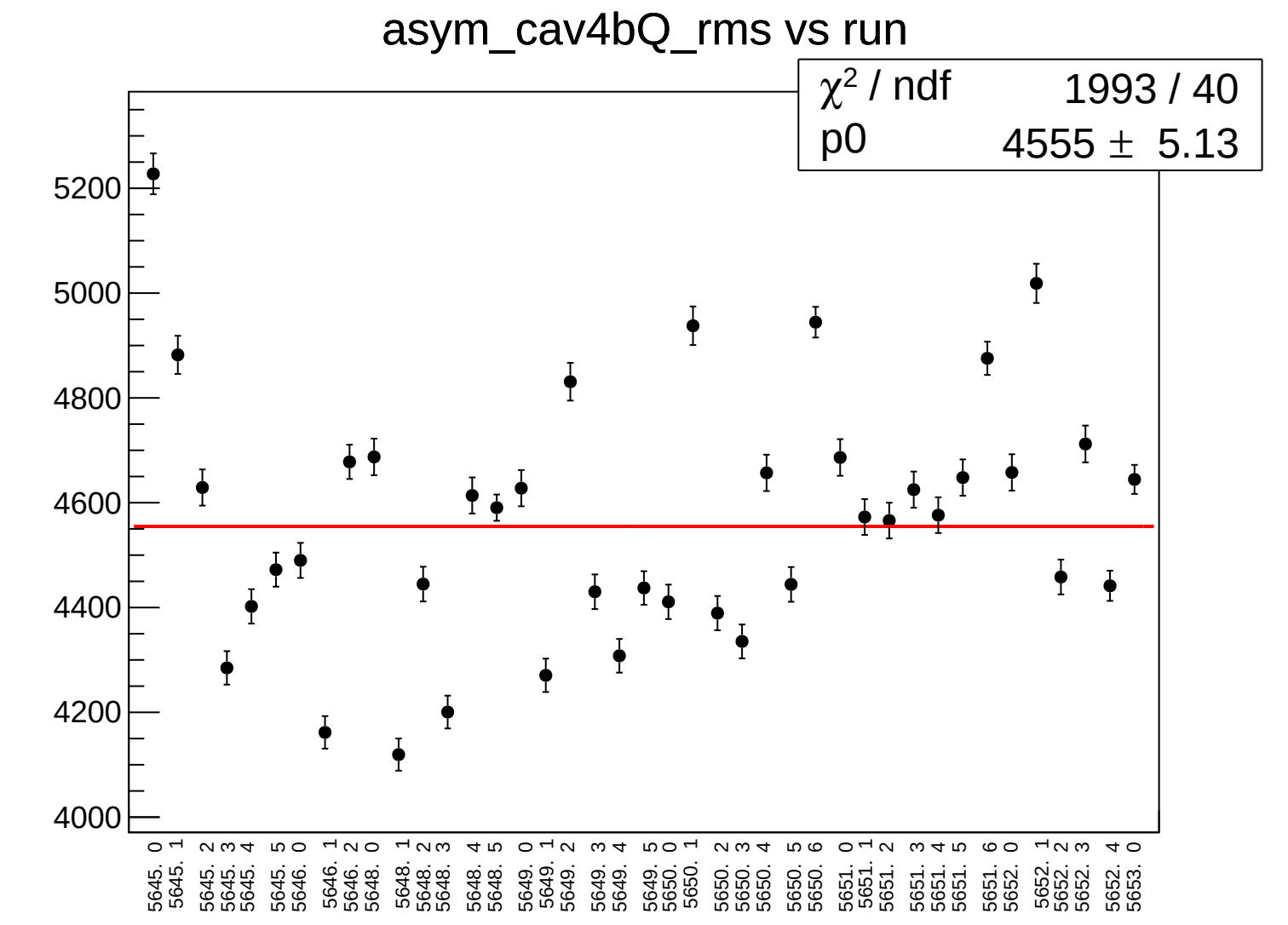

asym_bcm_dg_ds_mean vs run
χ² / ndf 7.34 / 40
p0 10.37 ± 415.6
pull
Entries 41
Mean 45.01
Std Dev 0

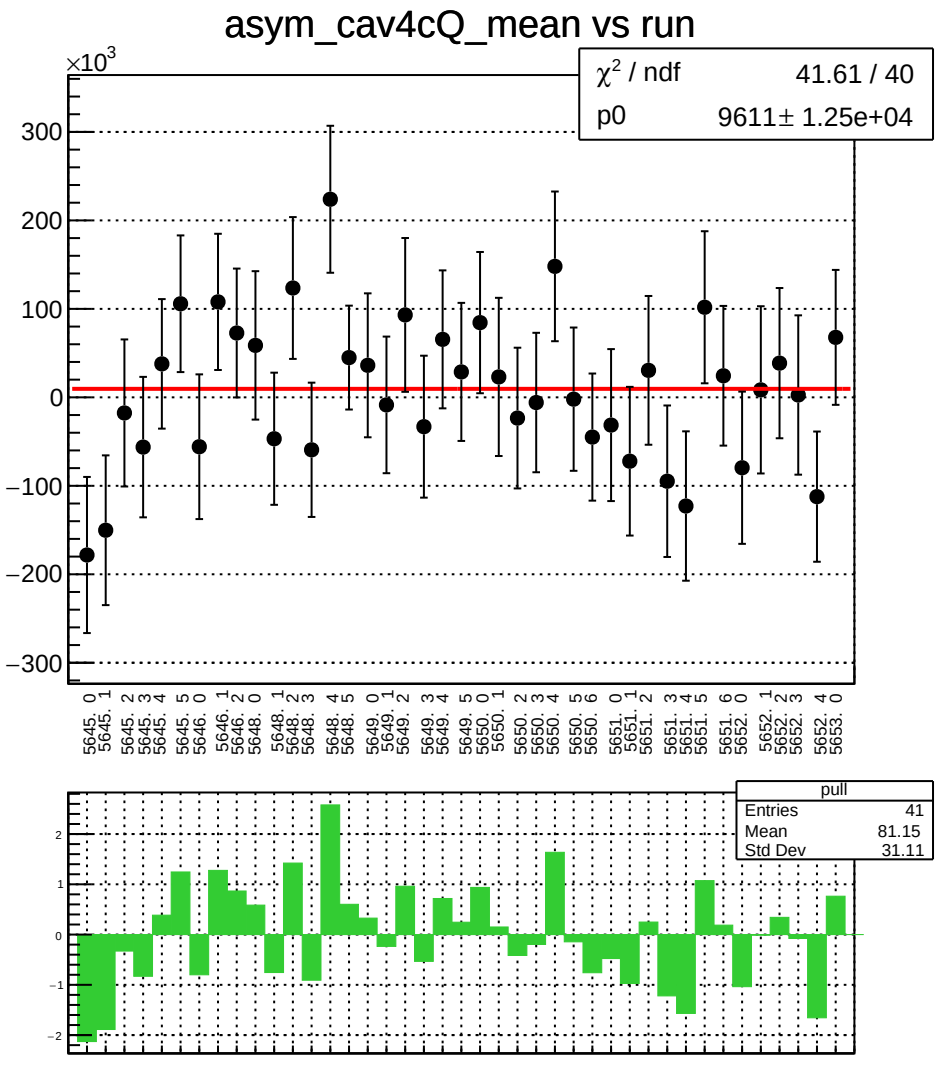

pull1D
Entries 41
Mean 0.01744
Std Dev 0.4227

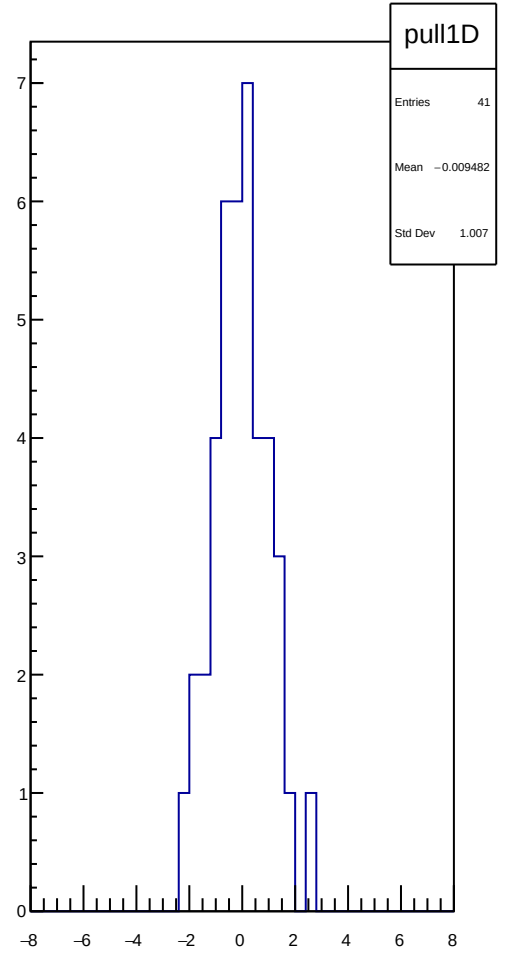

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.082e+04 / 40
p0 256.1 ± 0.2939
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_cav4bQ_mean vs run
×10^3
χ^2 / ndf 41.46 / 40
p0 5417 ± 7255
pull
Entries 41
Mean 99.74
Std Dev 0


pull1D
Entries 41
Mean −0.008583
Std Dev 1.006


asym_cav4bQ_rms vs run
χ² / ndf 1993 / 40
p0 4555 ± 5.13
5200
5000
4800
4600
4400
4200
4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_cav4cQ_mean vs run
×10^3
χ² / ndf 41.61 / 40
p0 9611± 1.25e+04
300
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.15
Std Dev 31.11
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.009482
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
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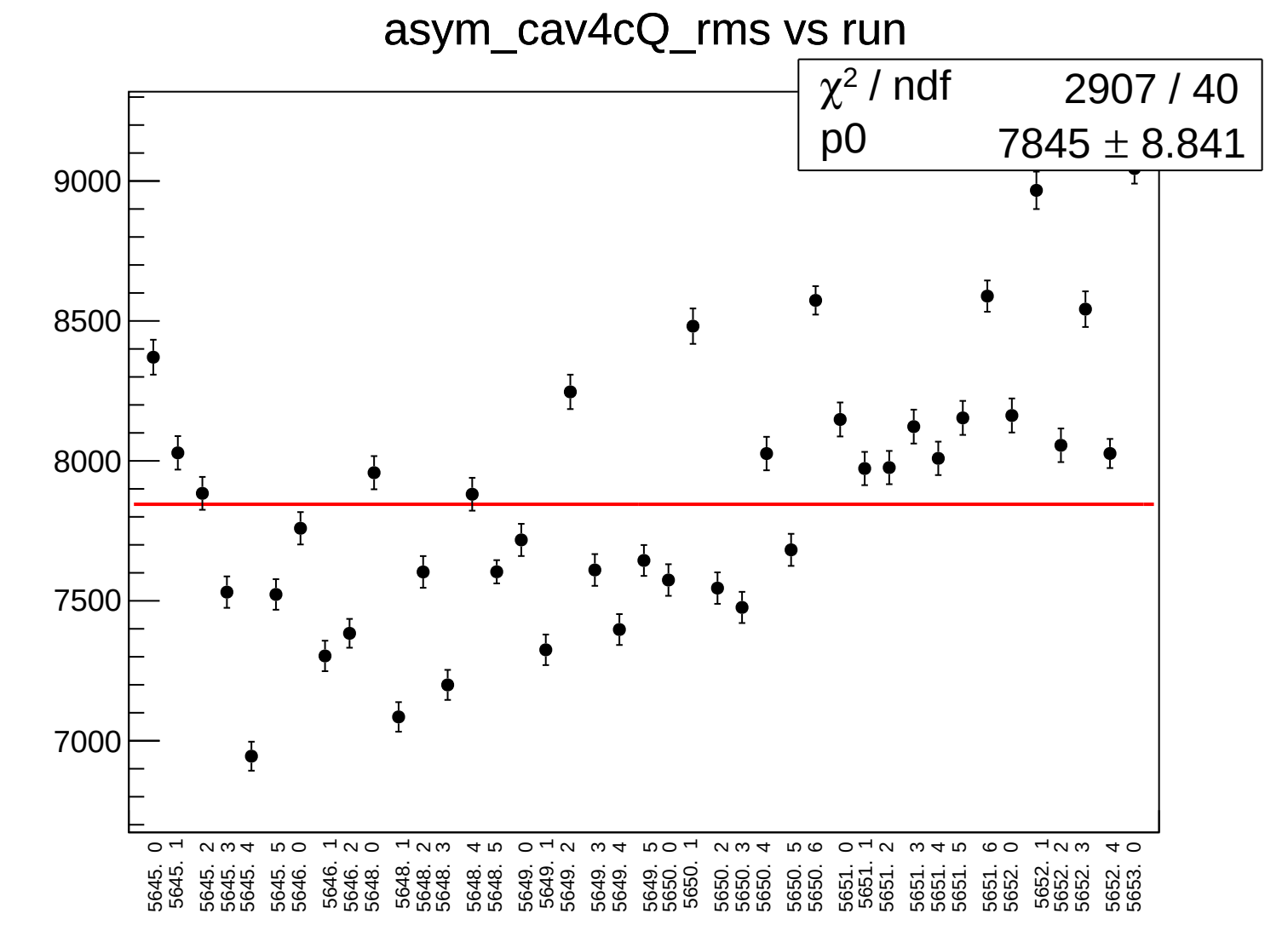
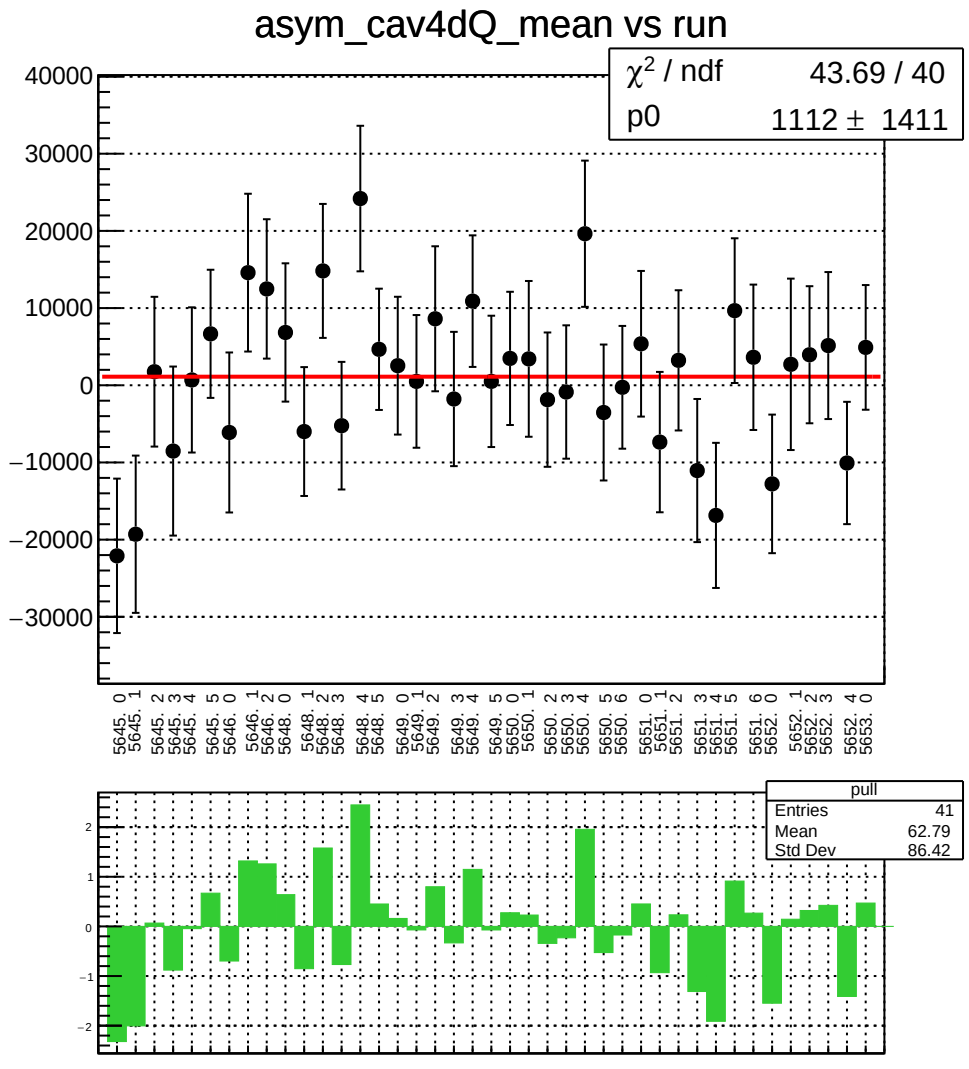
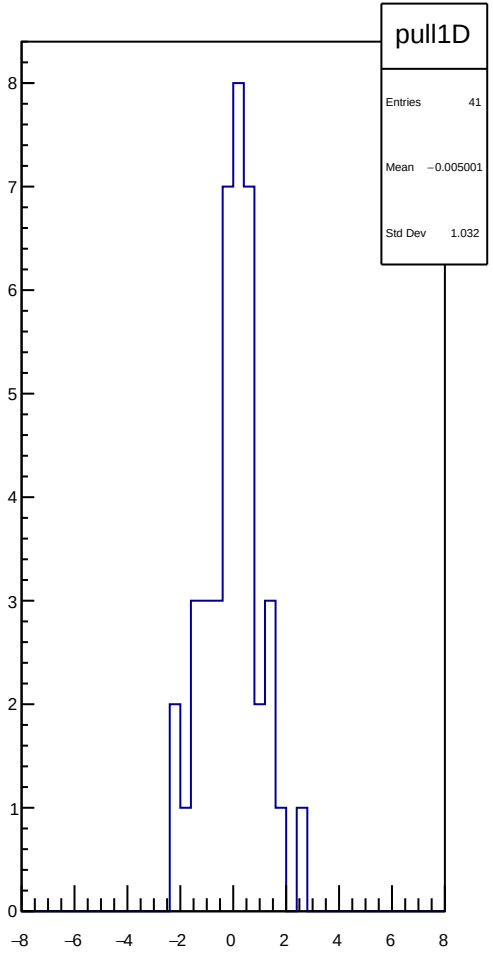
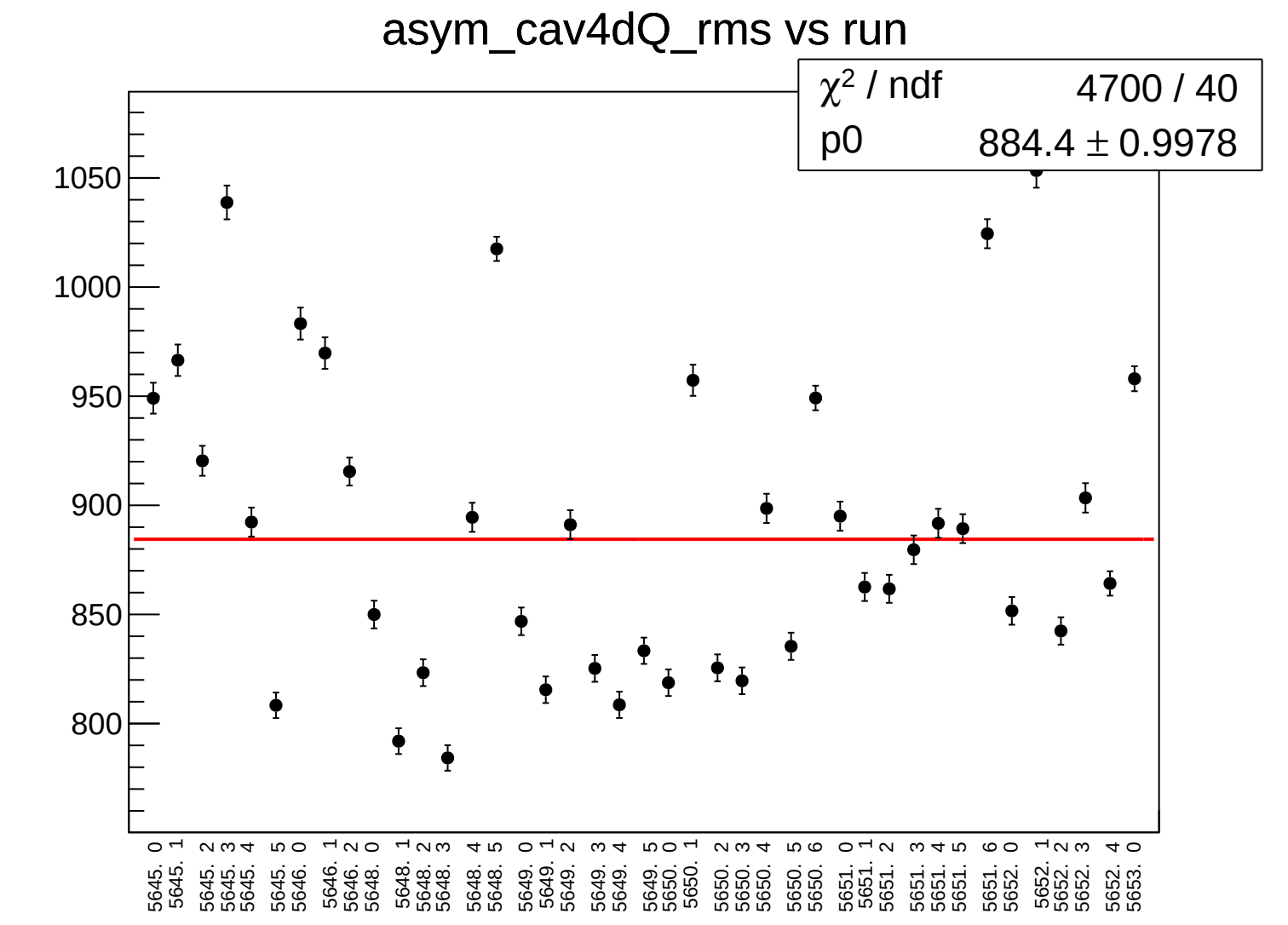
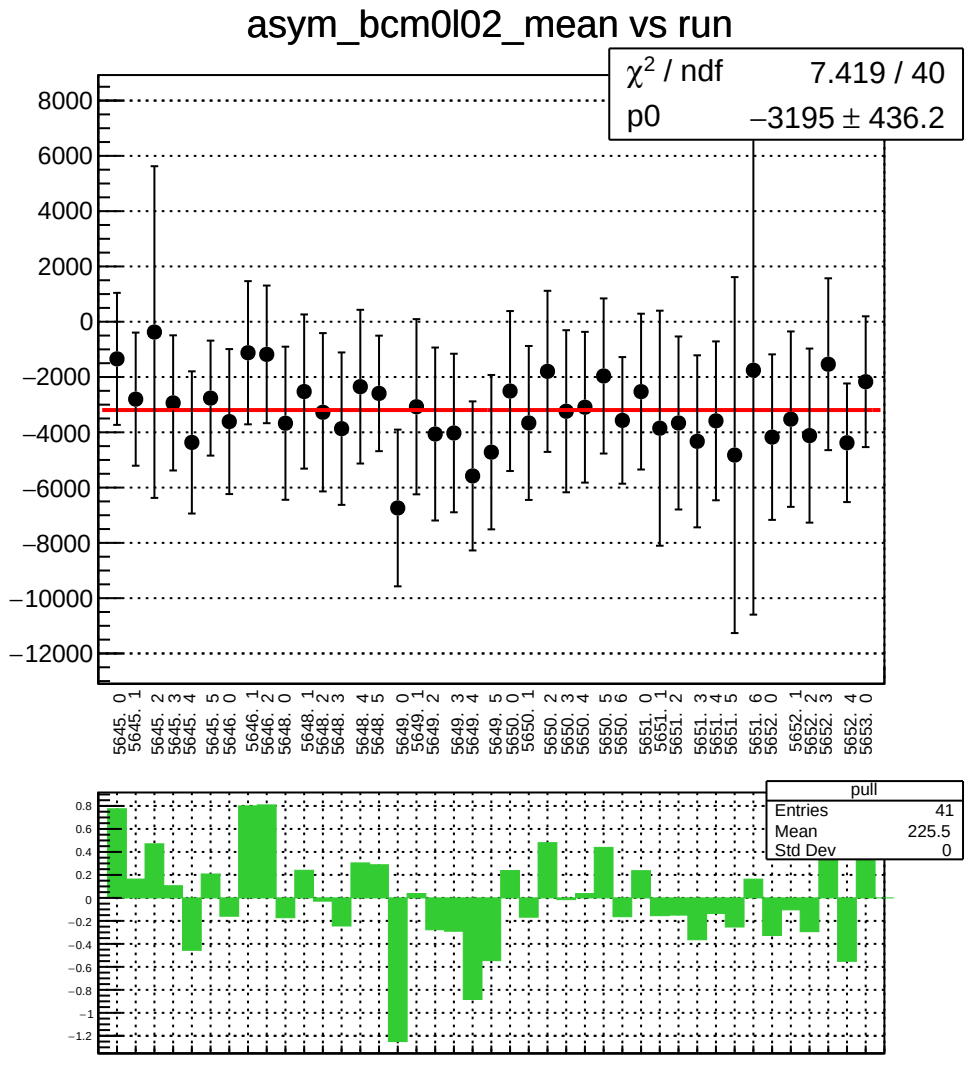
0
2
4
6
8

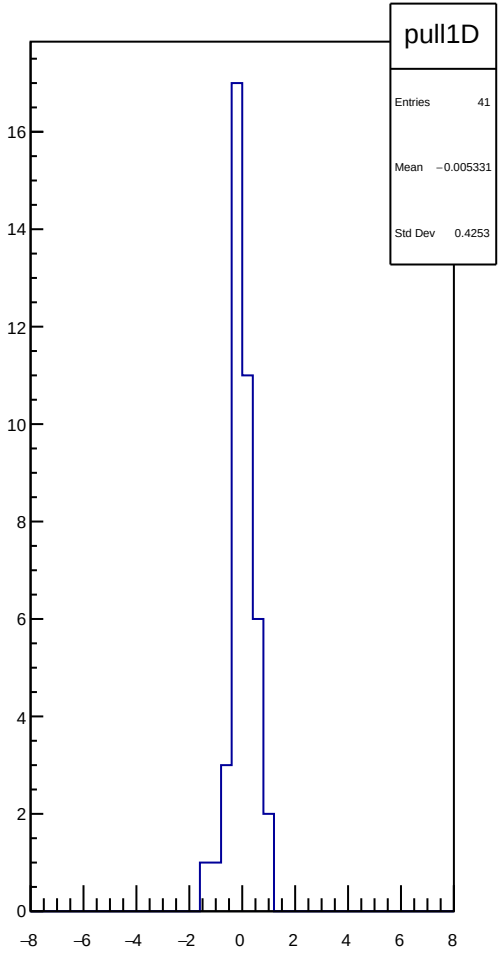

asym_cav4cQ_rms vs run
χ² / ndf 2907 / 40
p0 7845 ± 8.841
9000
8500
8000
7500
7000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

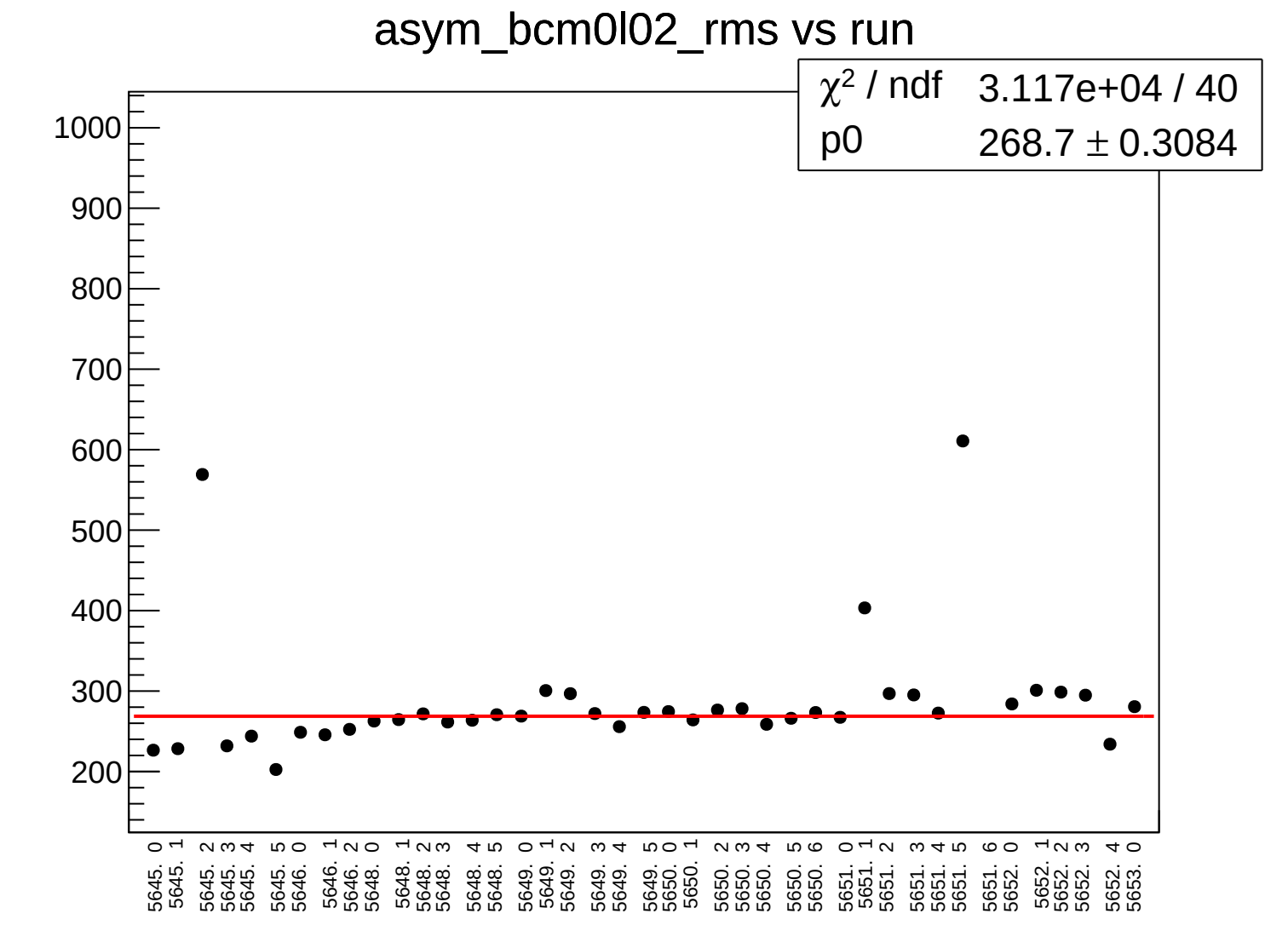

asym_cav4dQ_mean vs run
χ² / ndf 43.69 / 40
p0 1112 ± 1411
pull
Entries 41
Mean 62.79
Std Dev 86.42

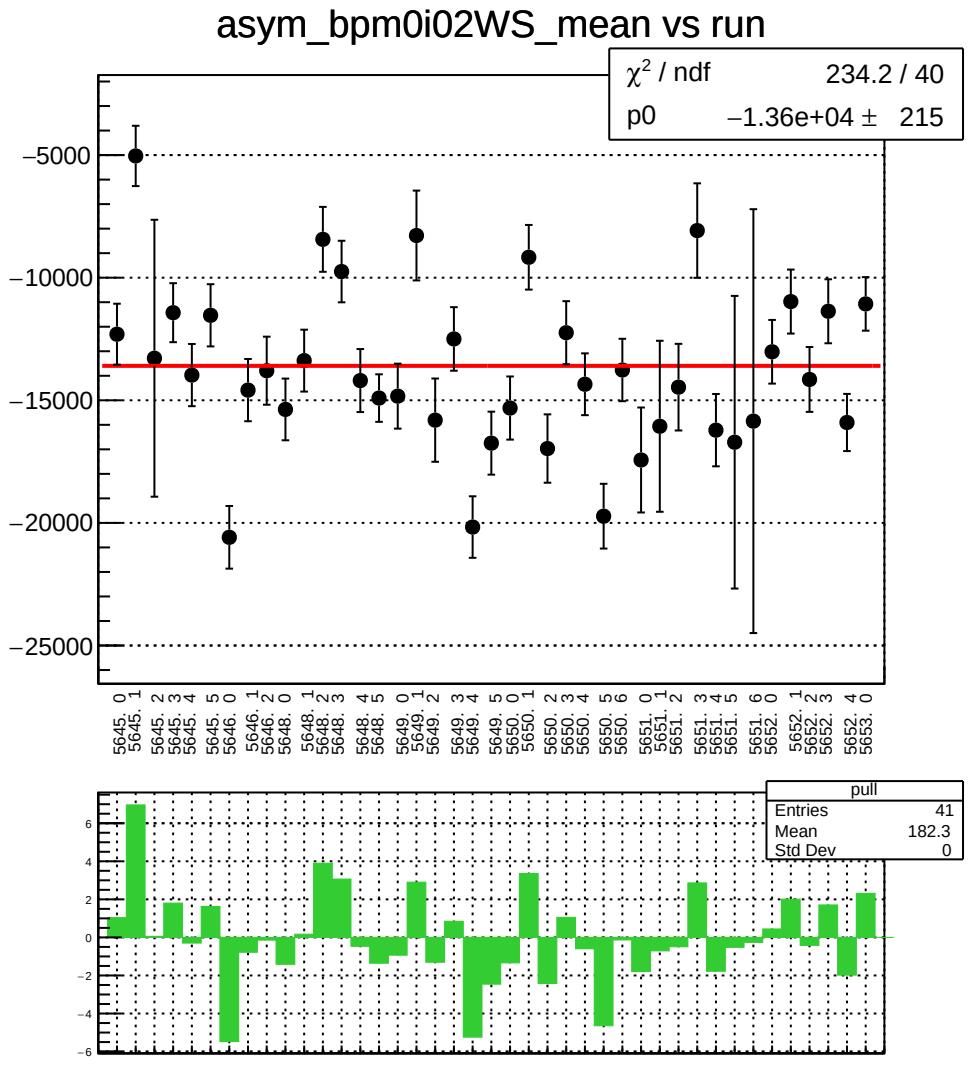

pull1D
Entries 41
Mean −0.005001
Std Dev 1.032

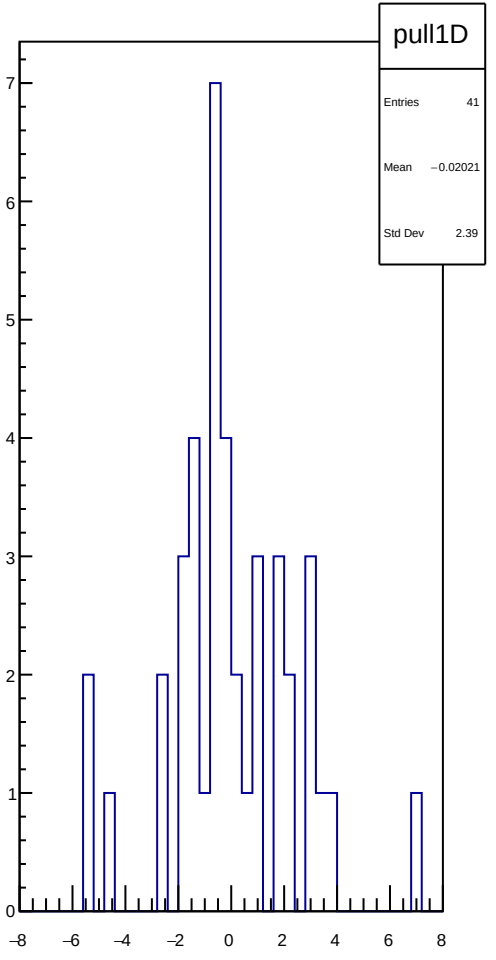

asym_cav4dQ_rms vs run
χ² / ndf 4700 / 40
p0 884.4 ± 0.9978
1050
1000
950
900
850
800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

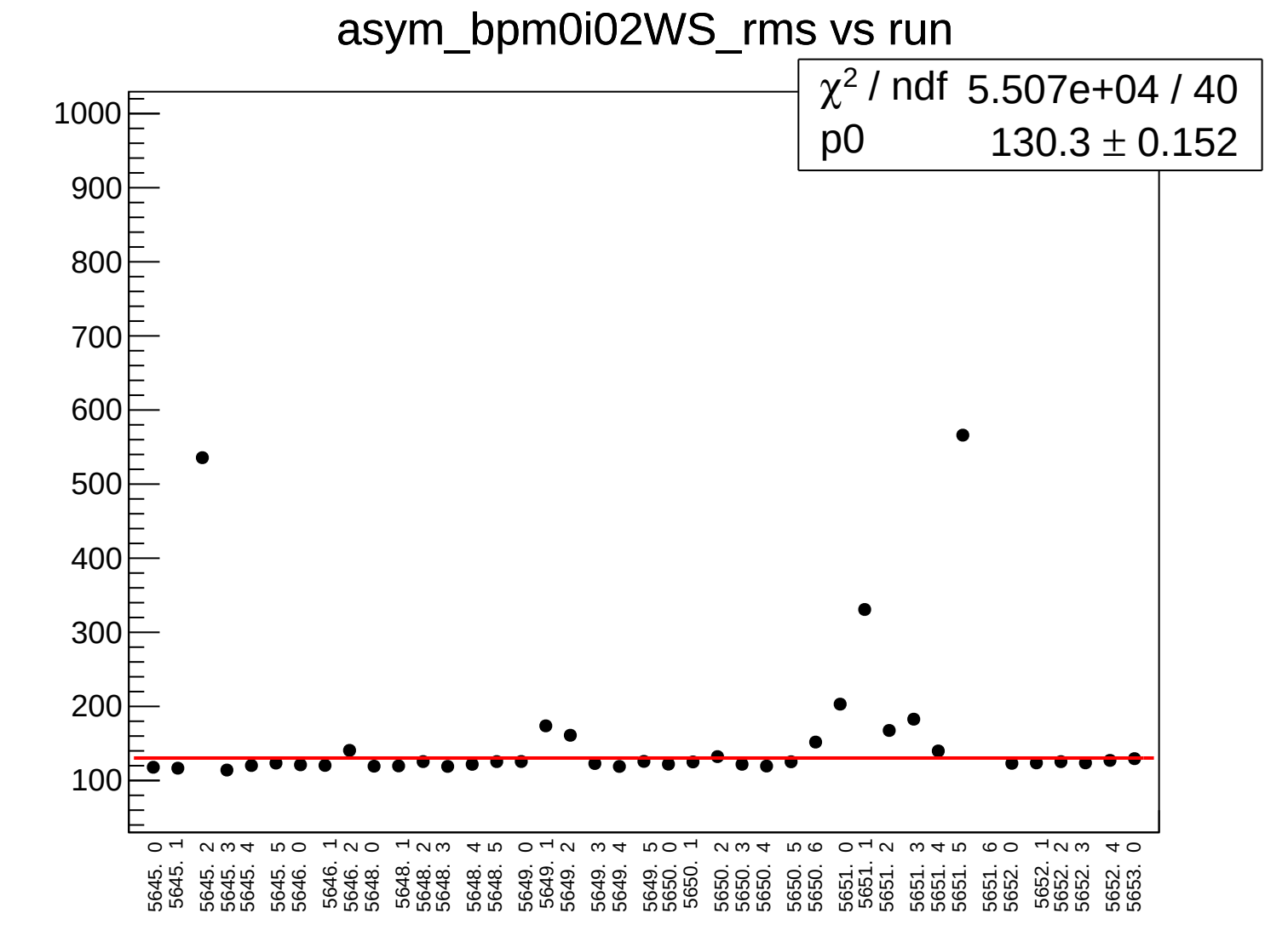

asym_bcm0l02_mean vs run
χ² / ndf 7.419 / 40
p0 −3195 ± 436.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 225.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

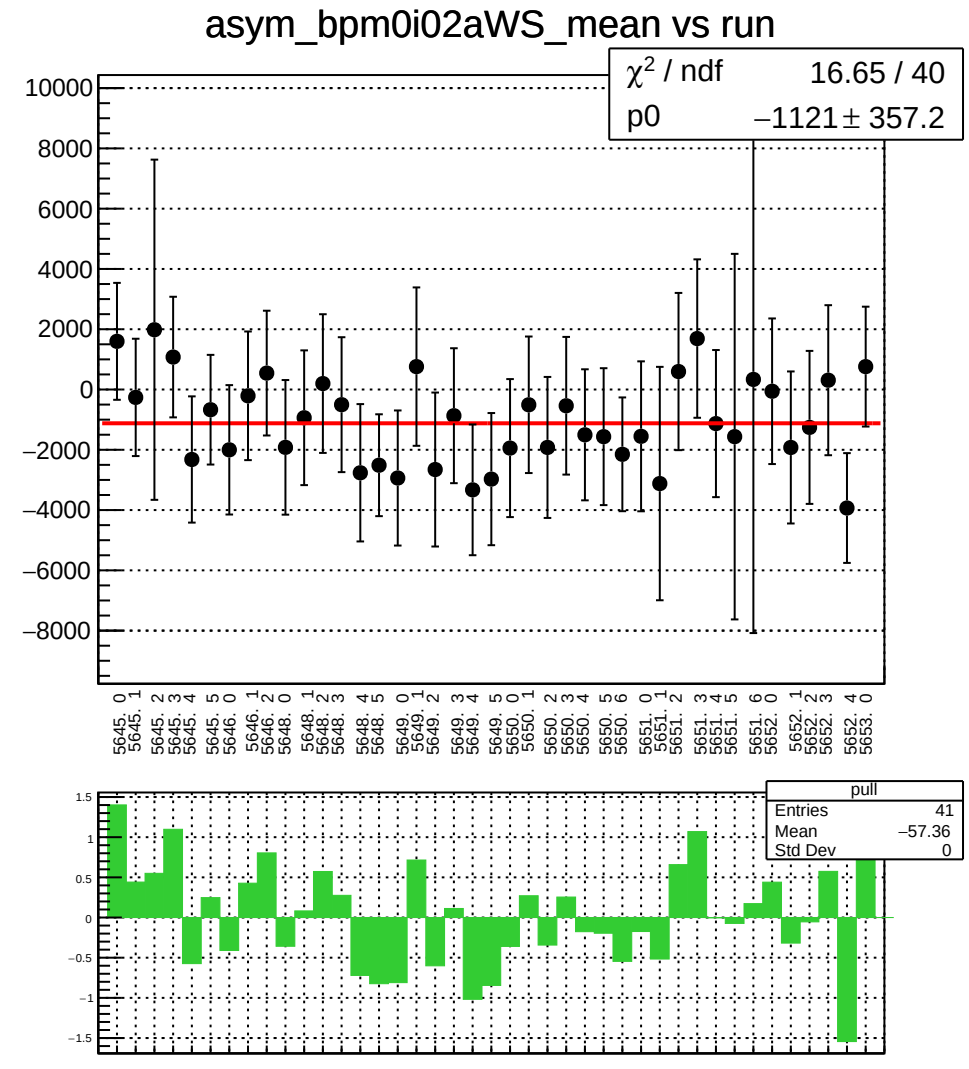

pull1D
Entries 41
Mean −0.005331
Std Dev 0.4253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

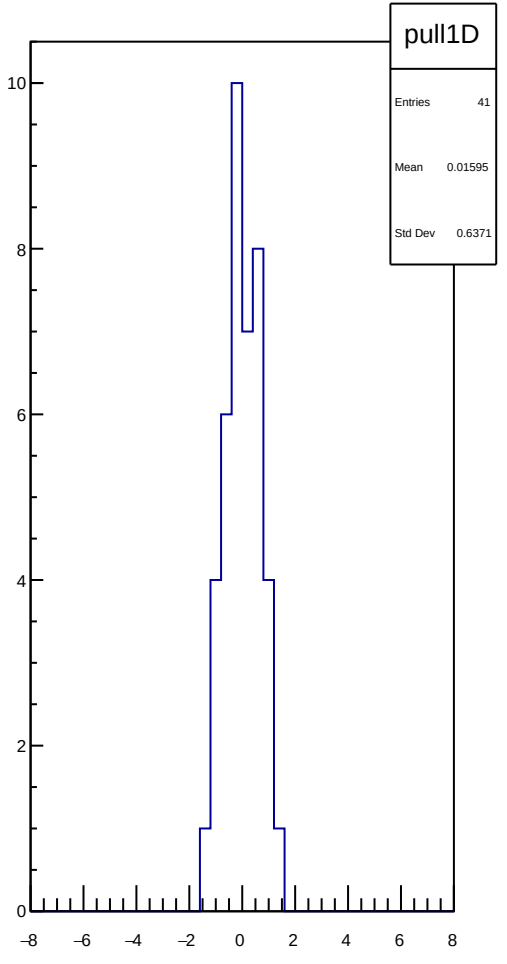

asym_bcm0l02_rms vs run
χ^2 / ndf 3.117e+04 / 40
p0 268.7 ± 0.3084
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

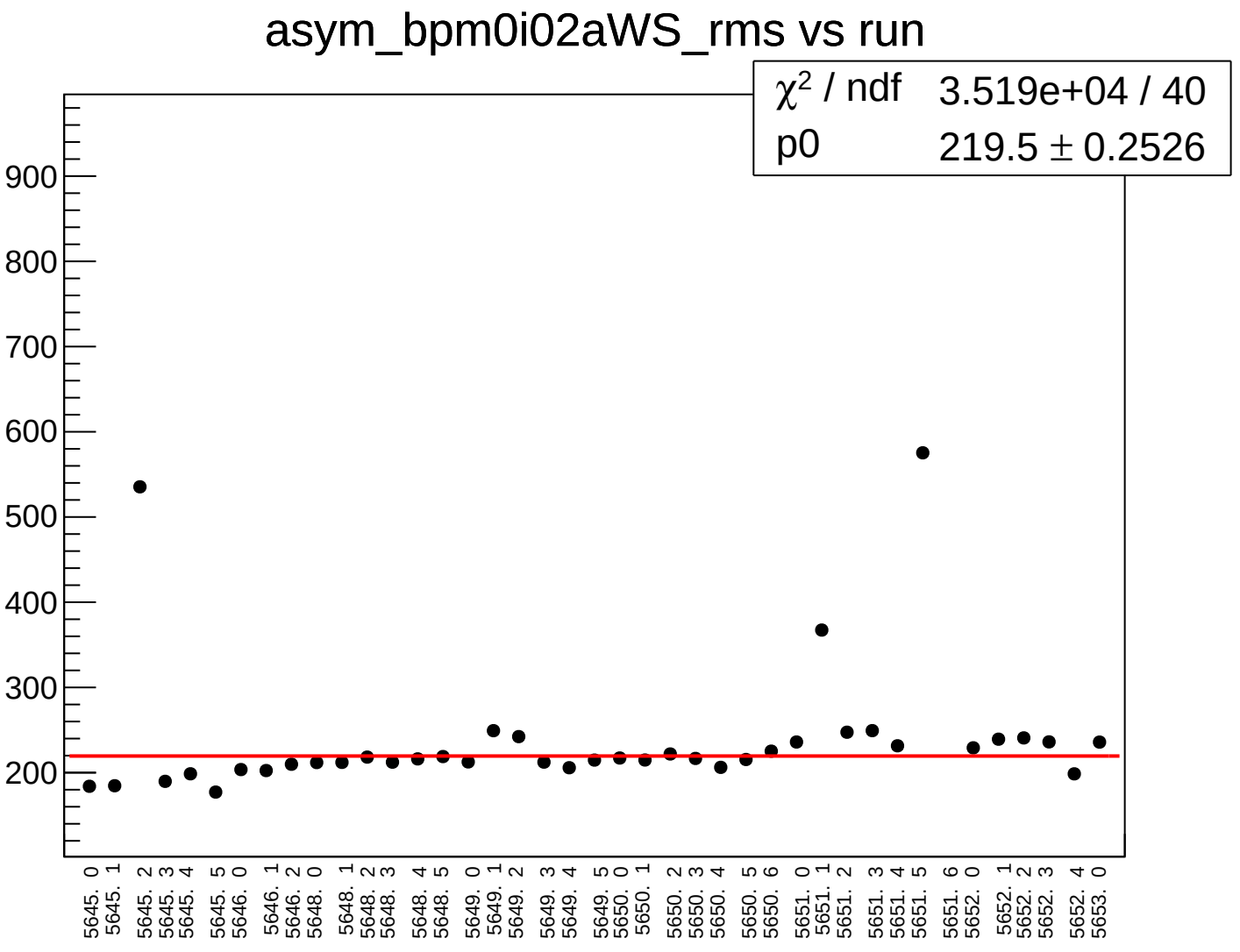

asym_bpm0i02WS_mean vs run
χ² / ndf 234.2 / 40
p0 −1.36e+04 ± 215
−5000
−10000
−15000
−20000
−25000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 182.3
Std Dev 0
6
4
2
0
−2
−4
−6

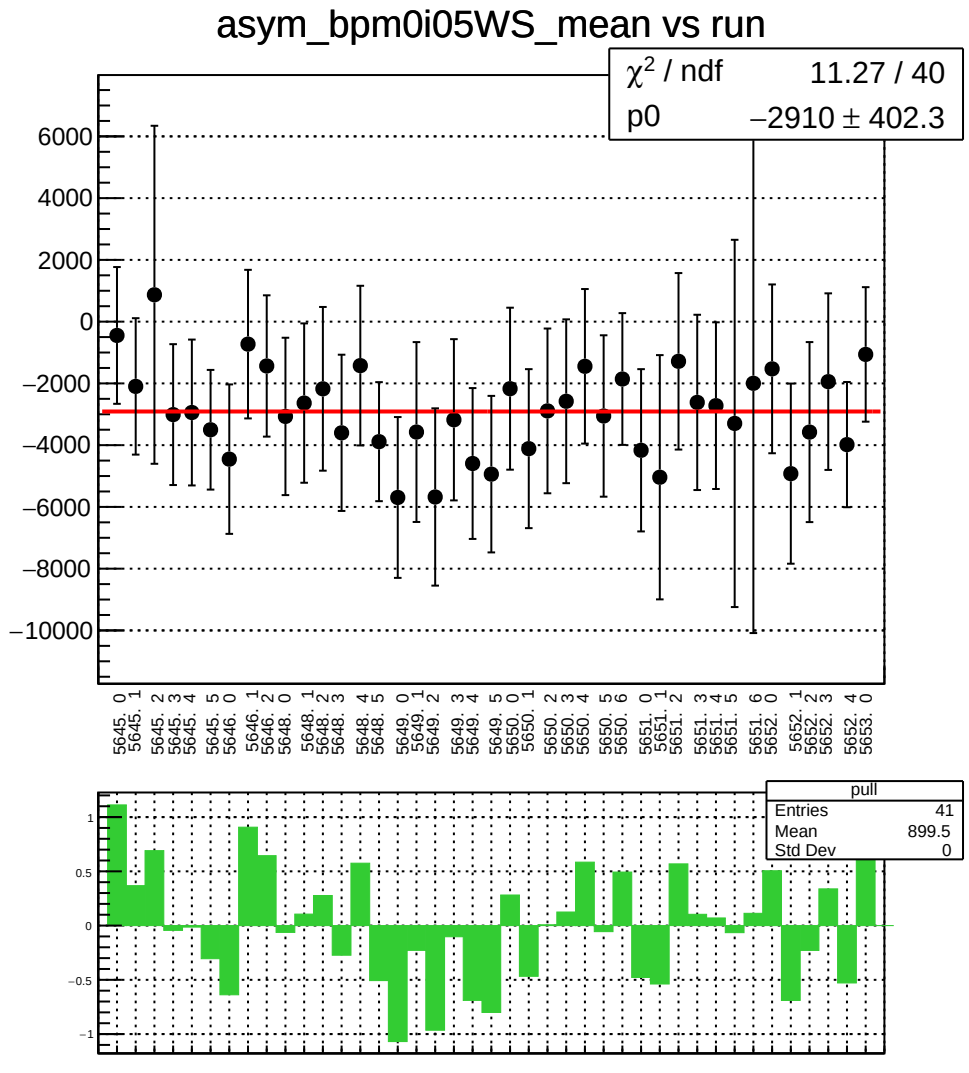

pull1D
Entries 41
Mean −0.02021
Std Dev 2.39
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

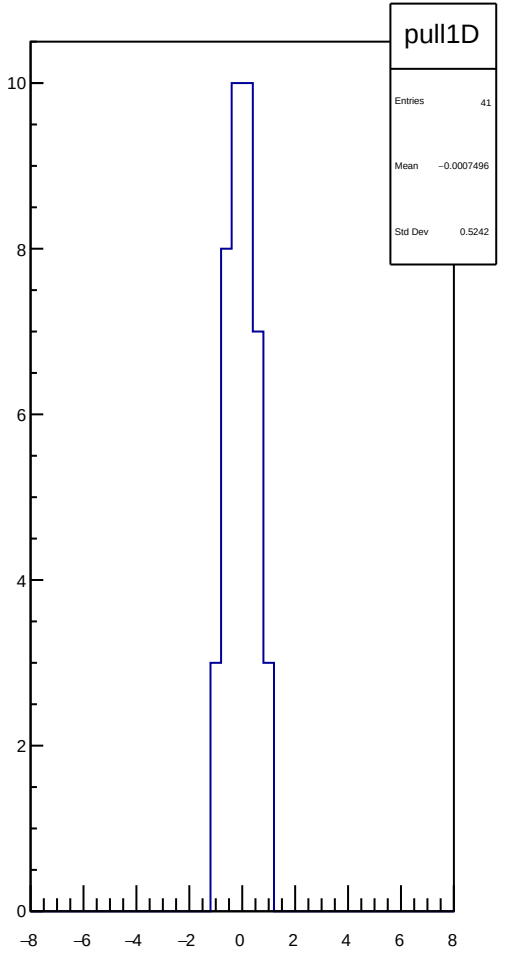

asym_bpm0i02WS_rms vs run
χ^2 / ndf 5.507e+04 / 40
p0 130.3 ± 0.152
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

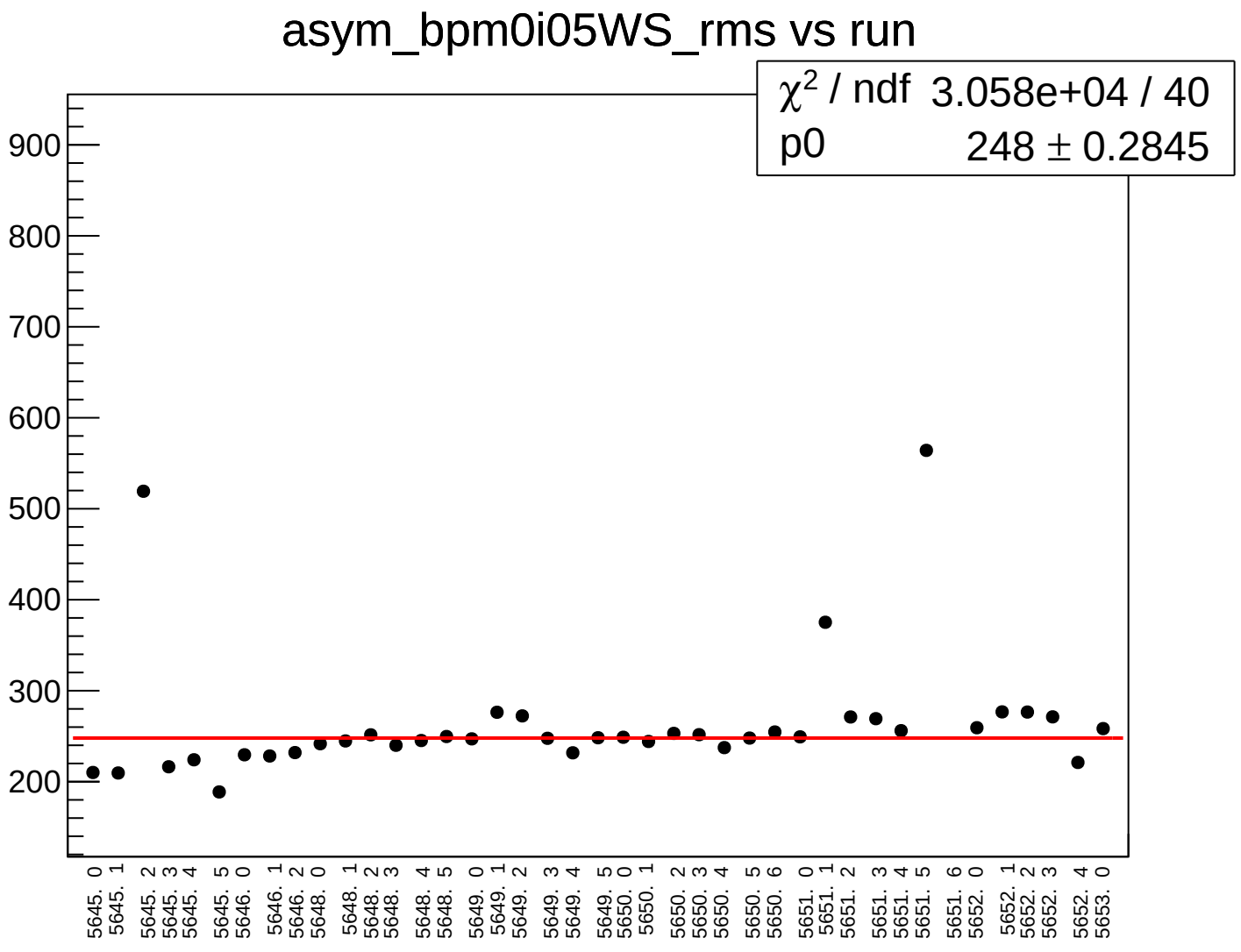

asym_bpm0i02aWS_mean vs run
χ² / ndf 16.65 / 40
p0 −1121 ± 357.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −57.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

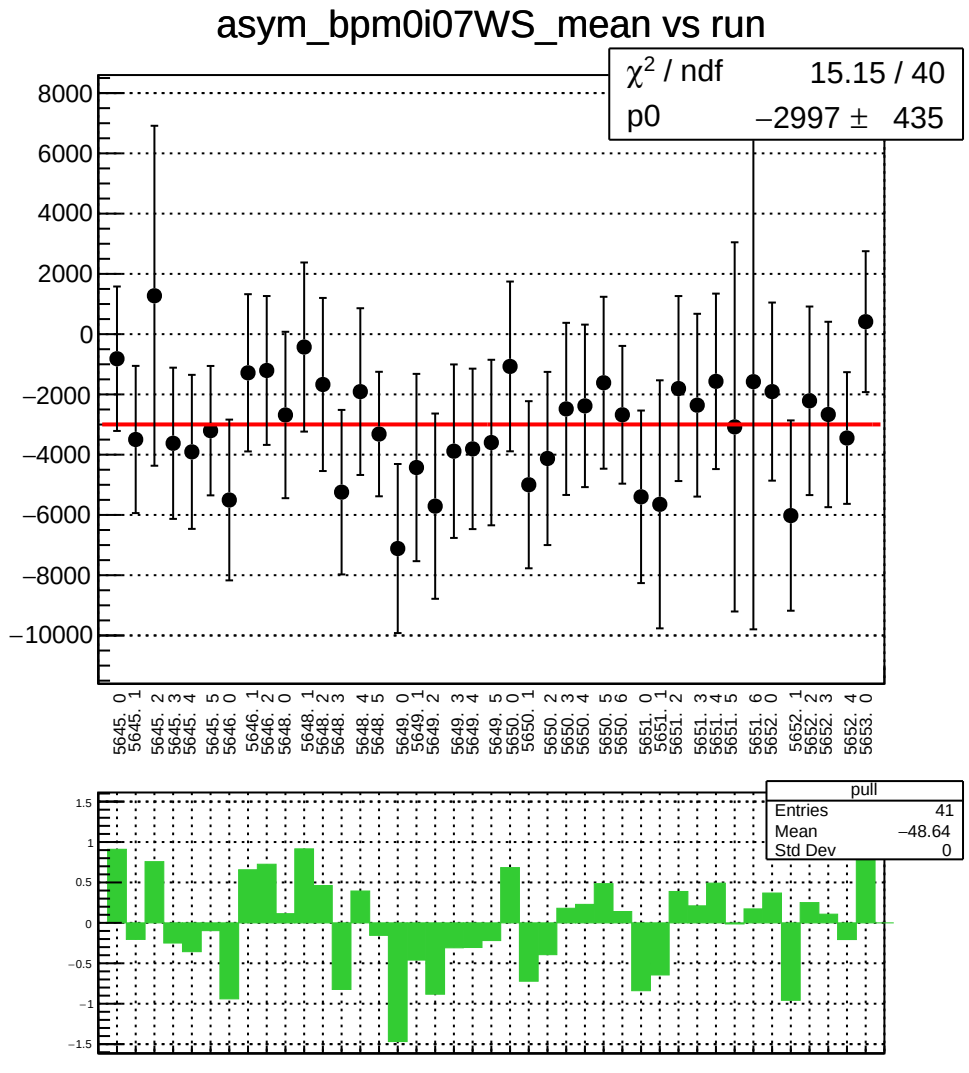

pull1D
Entries 41
Mean 0.01595
Std Dev 0.6371
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

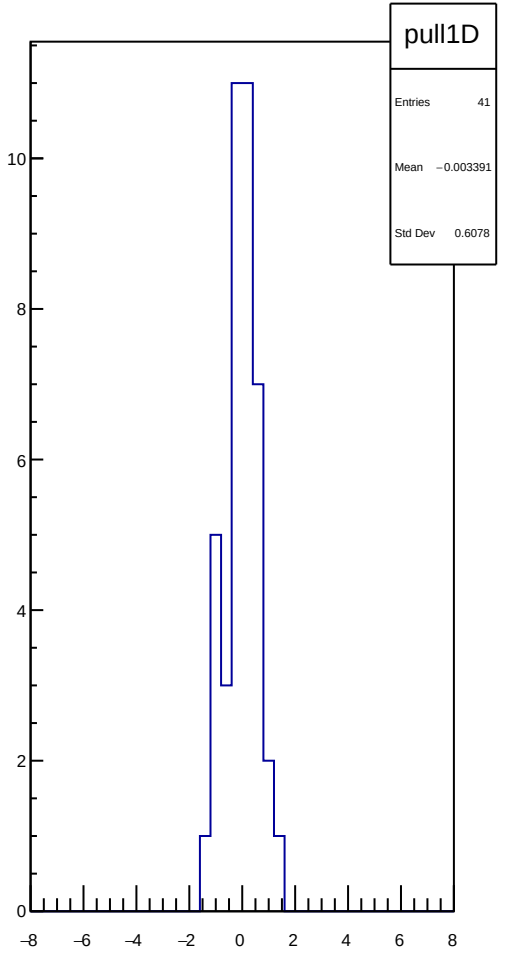

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.519e+04 / 40
p0 219.5 ± 0.2526
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

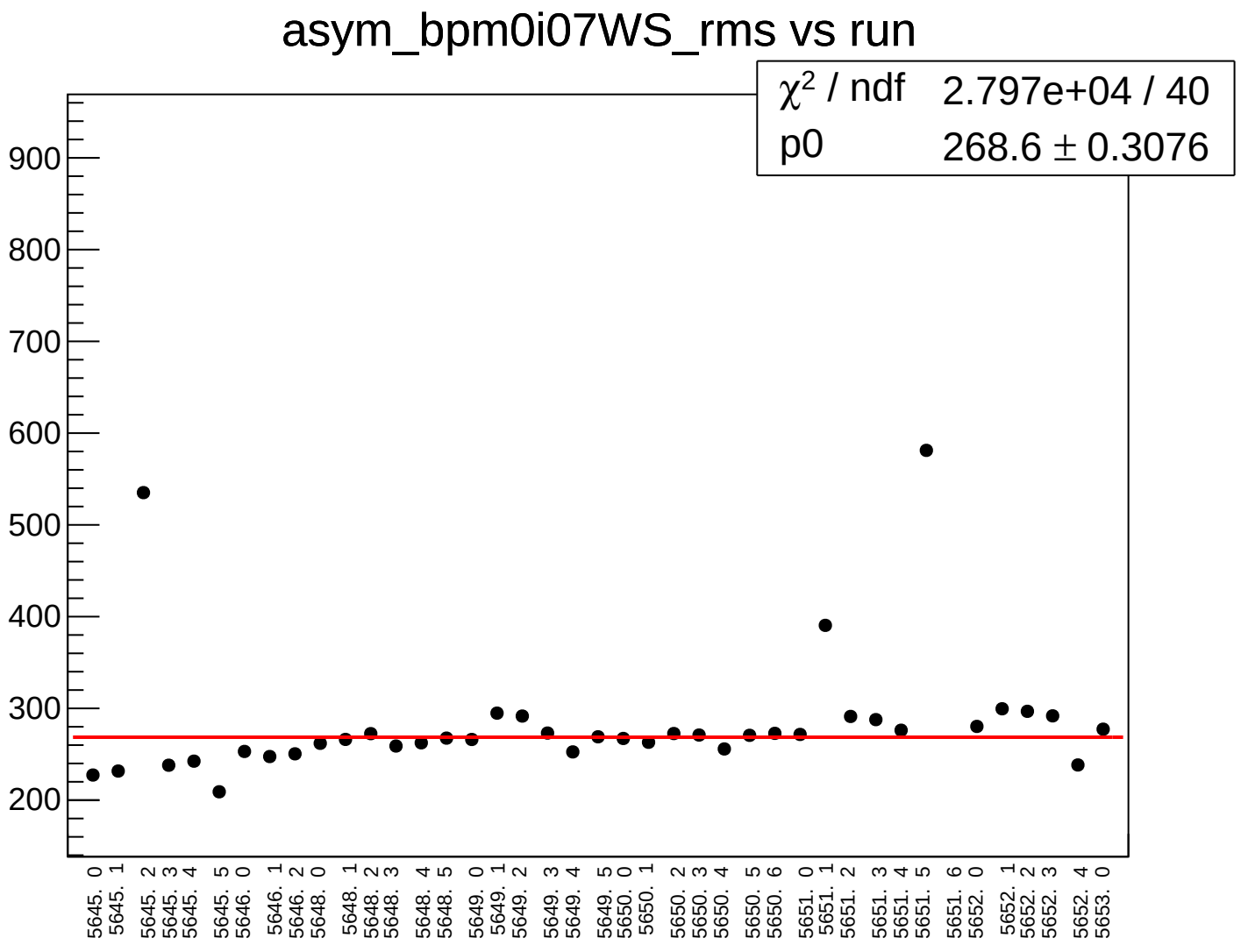

asym_bpm0i05WS_mean vs run
χ² / ndf 11.27 / 40
p0 −2910 ± 402.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 899.5
Std Dev 0
1
0.5
0
−0.5
−1

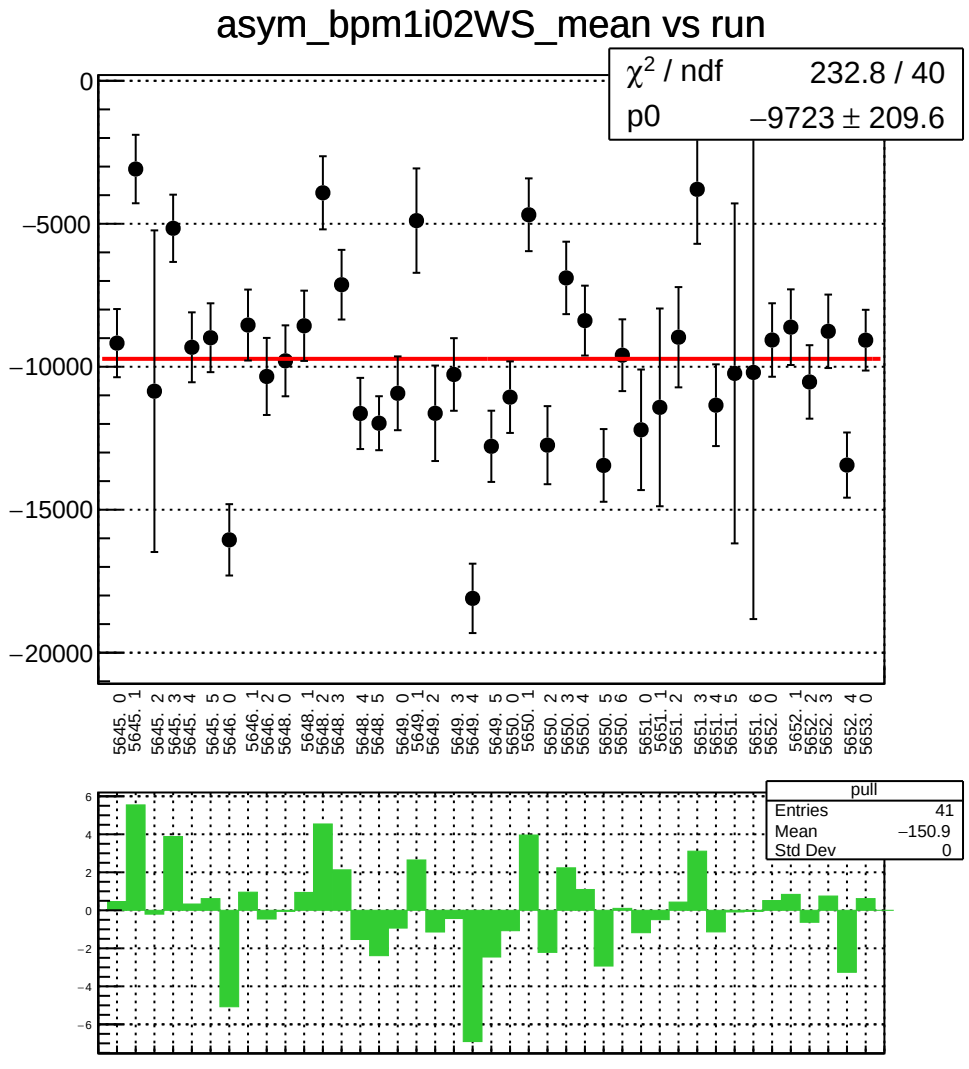

pull1D
Entries 41
Mean −0.0007496
Std Dev 0.5242
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

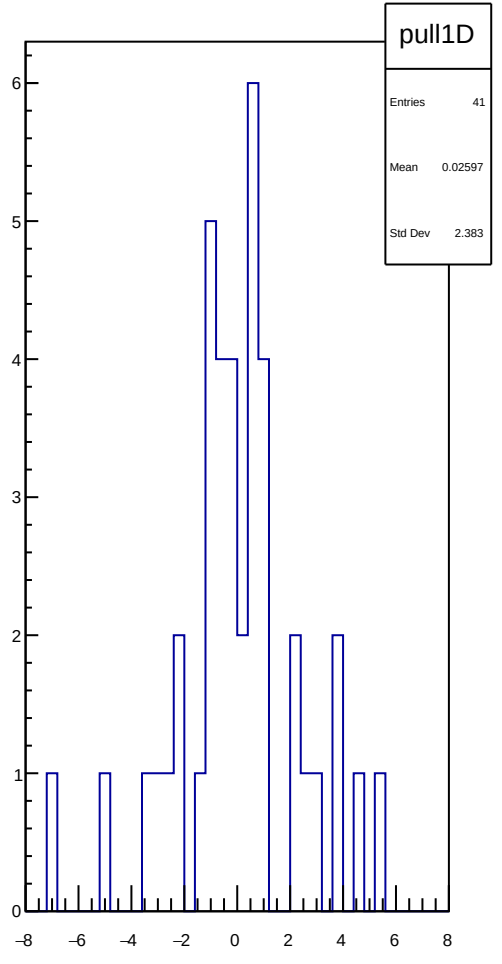

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.058e+04 / 40
p0 248 ± 0.2845
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

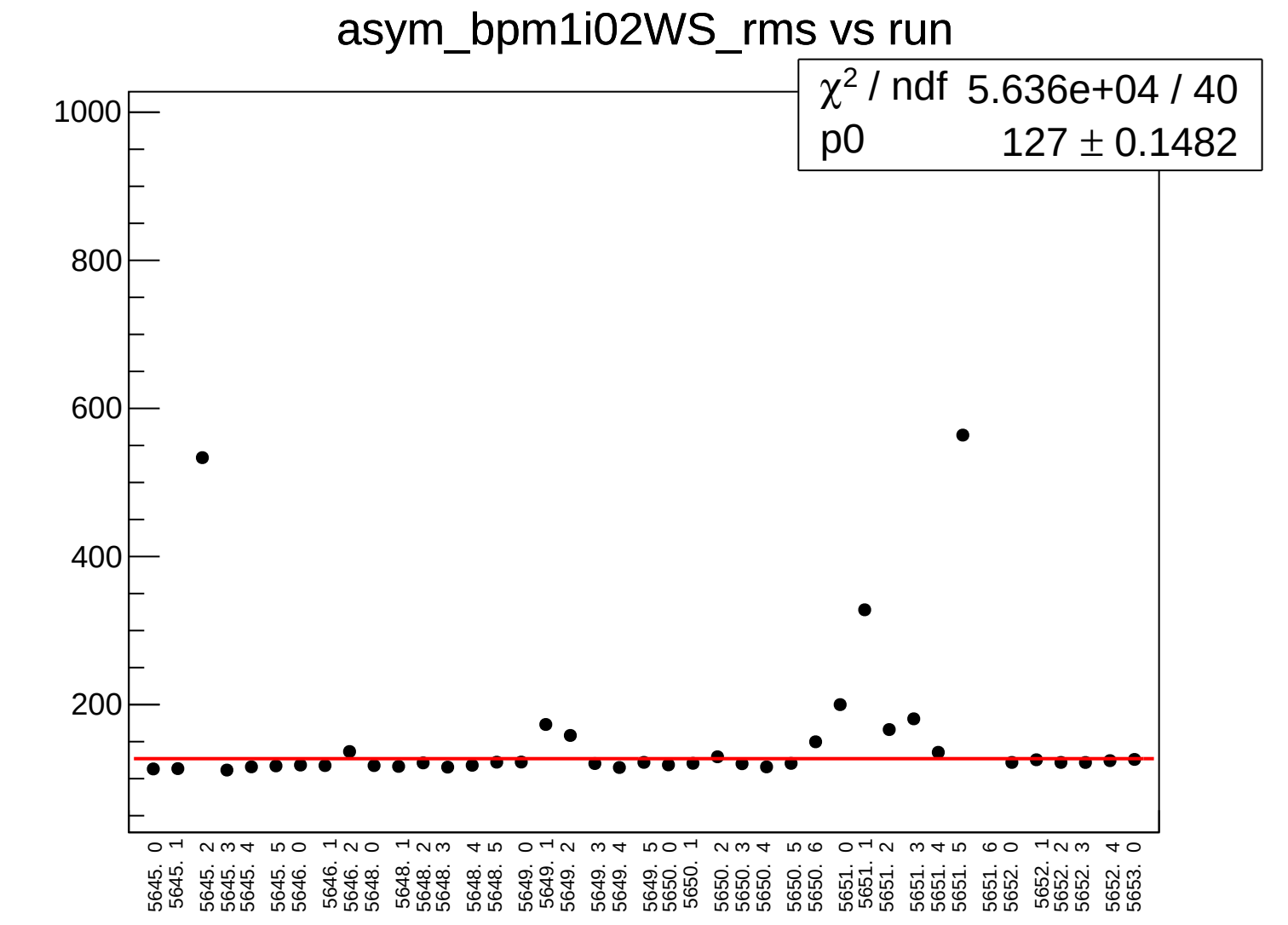

asym_bpm0i07WS_mean vs run
χ² / ndf 15.15 / 40
p0 −2997 ± 435
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −48.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

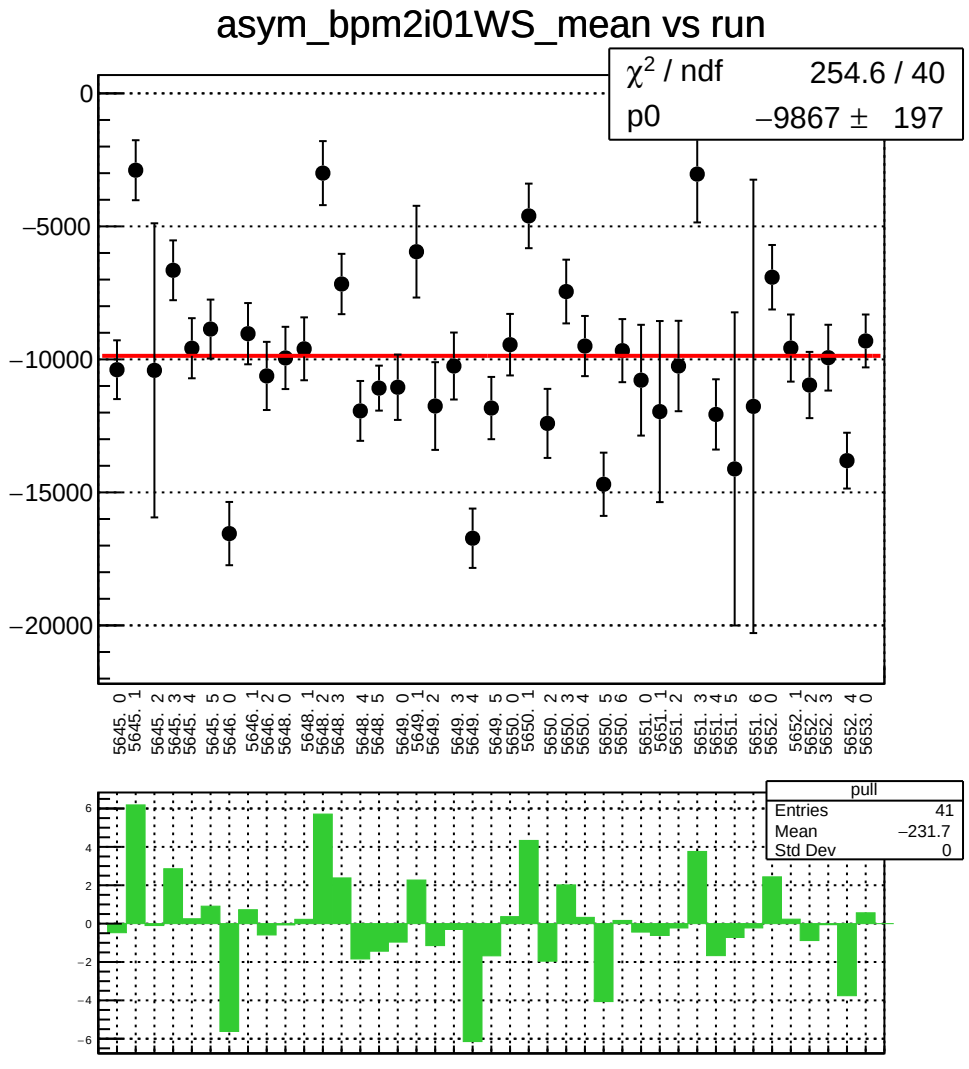

pull1D
Entries 41
Mean −0.003391
Std Dev 0.6078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

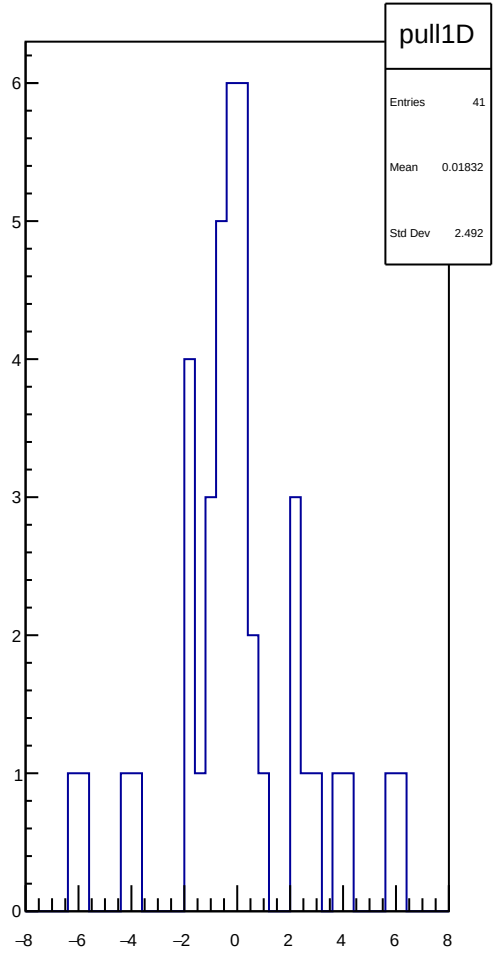

asym_bpm0i07WS_rms vs run
χ² / ndf 2.797e+04 / 40
p0 268.6 ± 0.3076
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

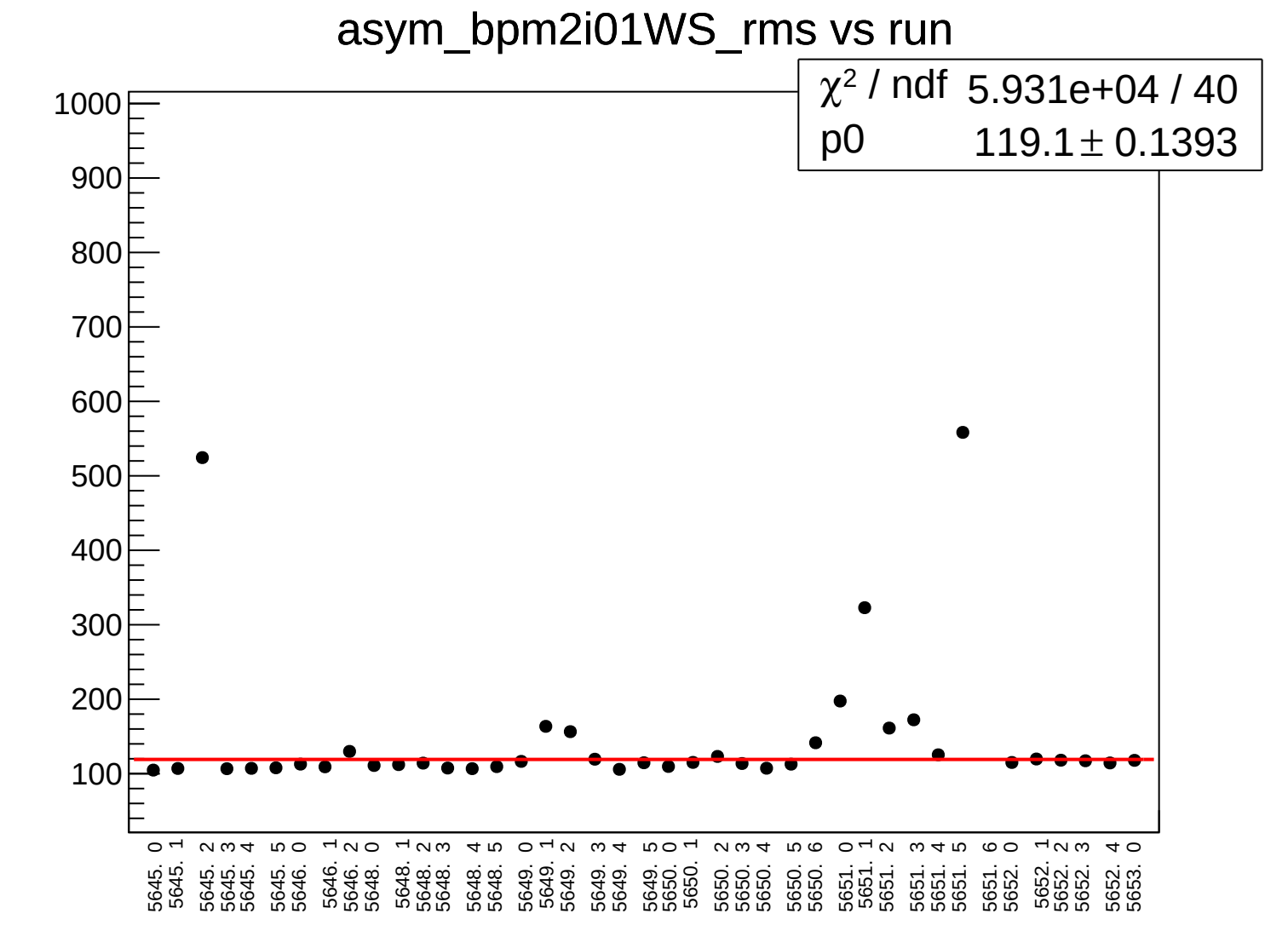

asym_bpm1i02WS_mean vs run
χ² / ndf 232.8 / 40
p0 −9723 ± 209.6
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −150.9
Std Dev 0
6
4
2
0
−2
−4
−6

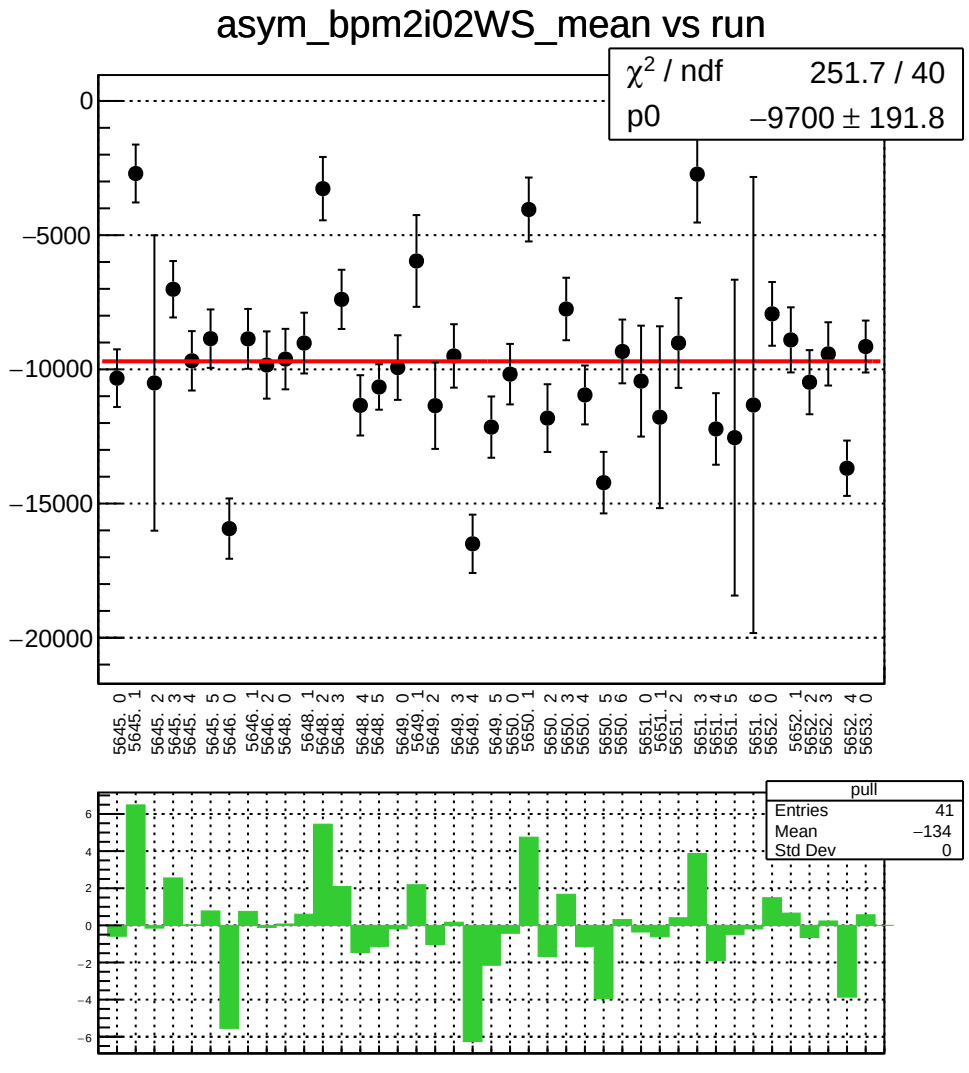

pull1D
Entries 41
Mean 0.02597
Std Dev 2.383
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

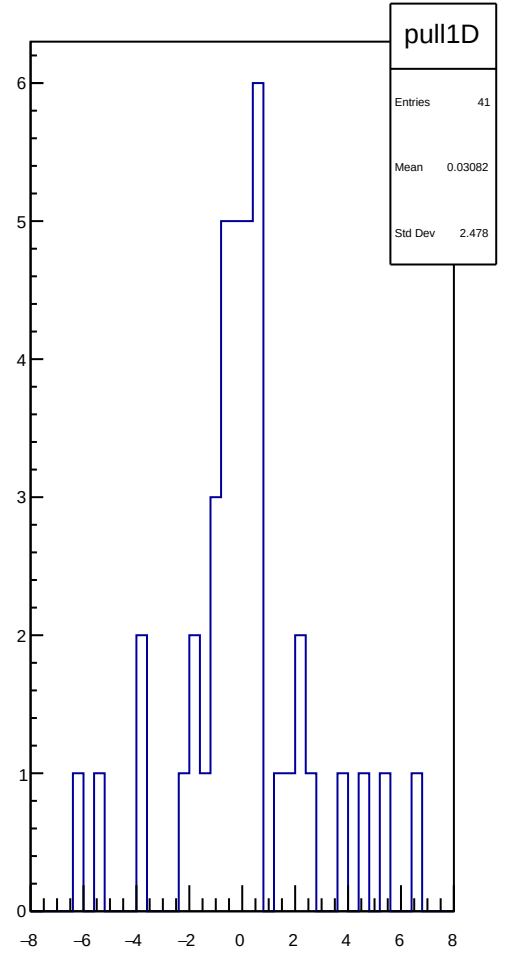

asym_bpm1i02WS_rms vs run
χ² / ndf 5.636e+04 / 40
p0 127 ± 0.1482
1000
800
600
400
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

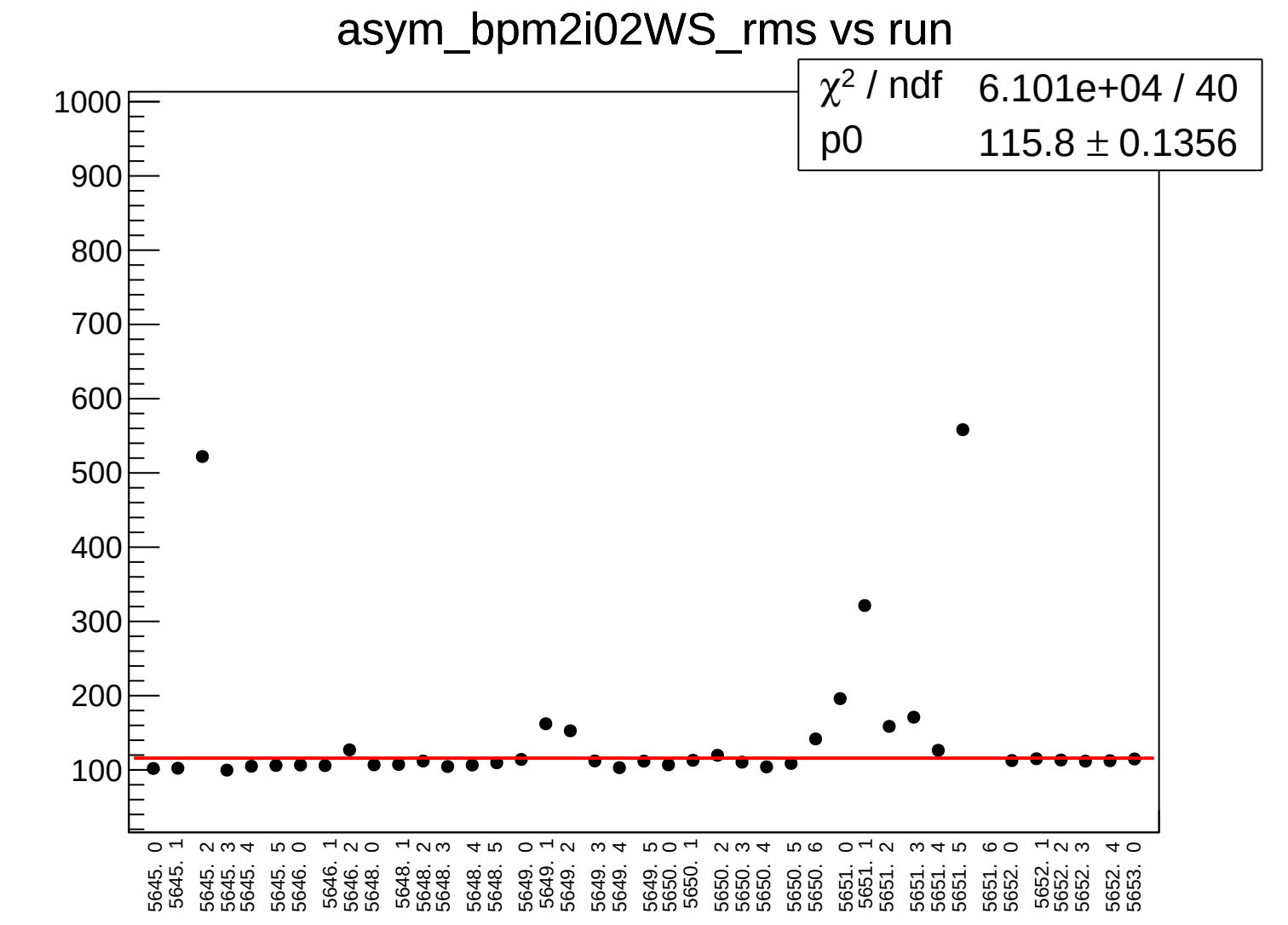

asym_bpm2i01WS_mean vs run
χ² / ndf 254.6 / 40
p0 −9867 ± 197
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −231.7
Std Dev 0
6
4
2
0
−2
−4
−6

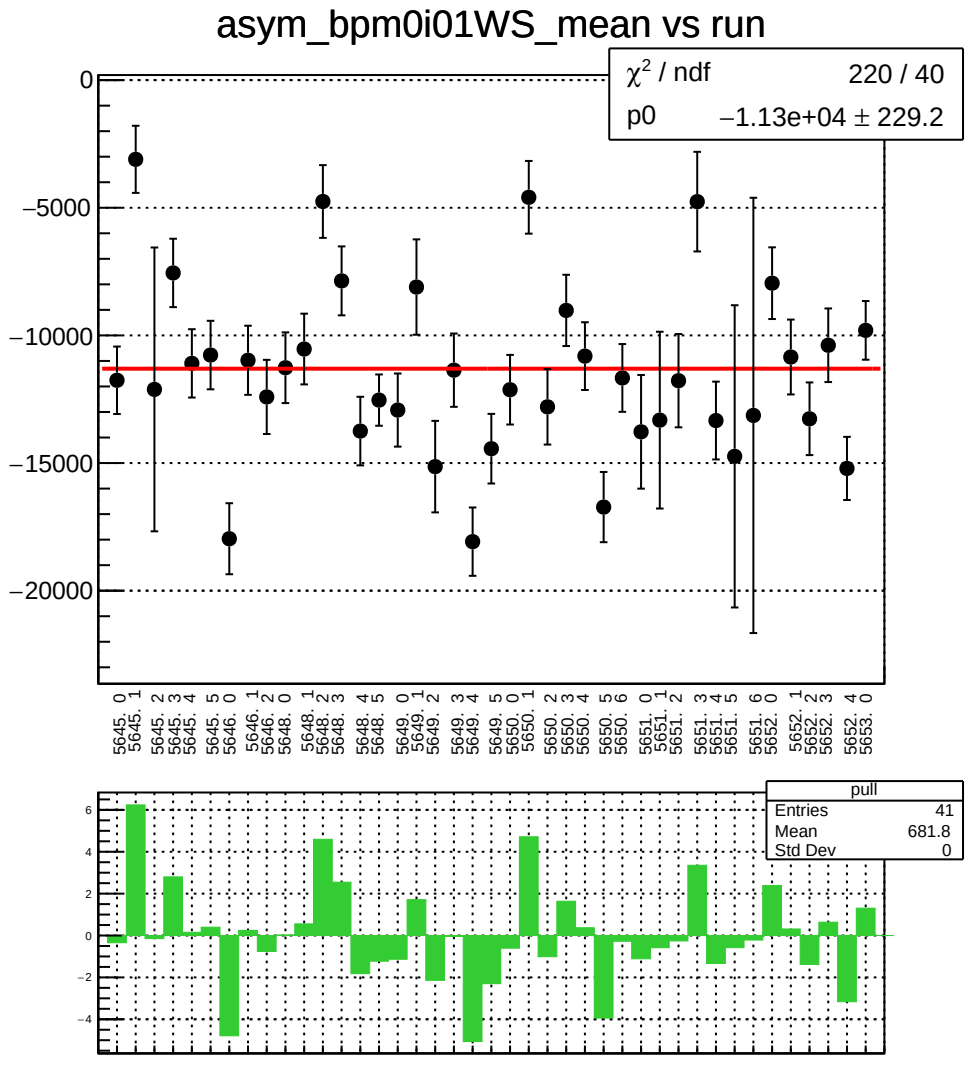

pull1D
Entries 41
Mean 0.01832
Std Dev 2.492
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

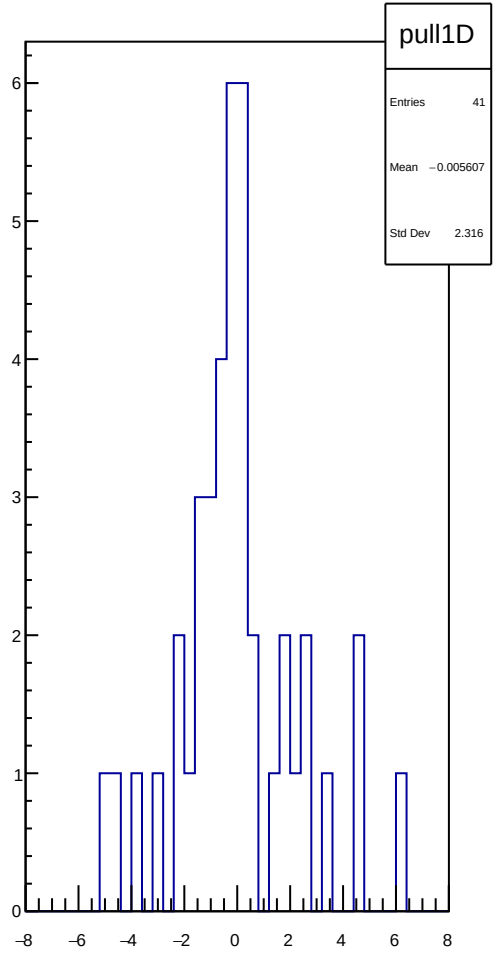

asym_bpm2i01WS_rms vs run
χ² / ndf 5.931e+04 / 40
p0 119.1 ± 0.1393
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

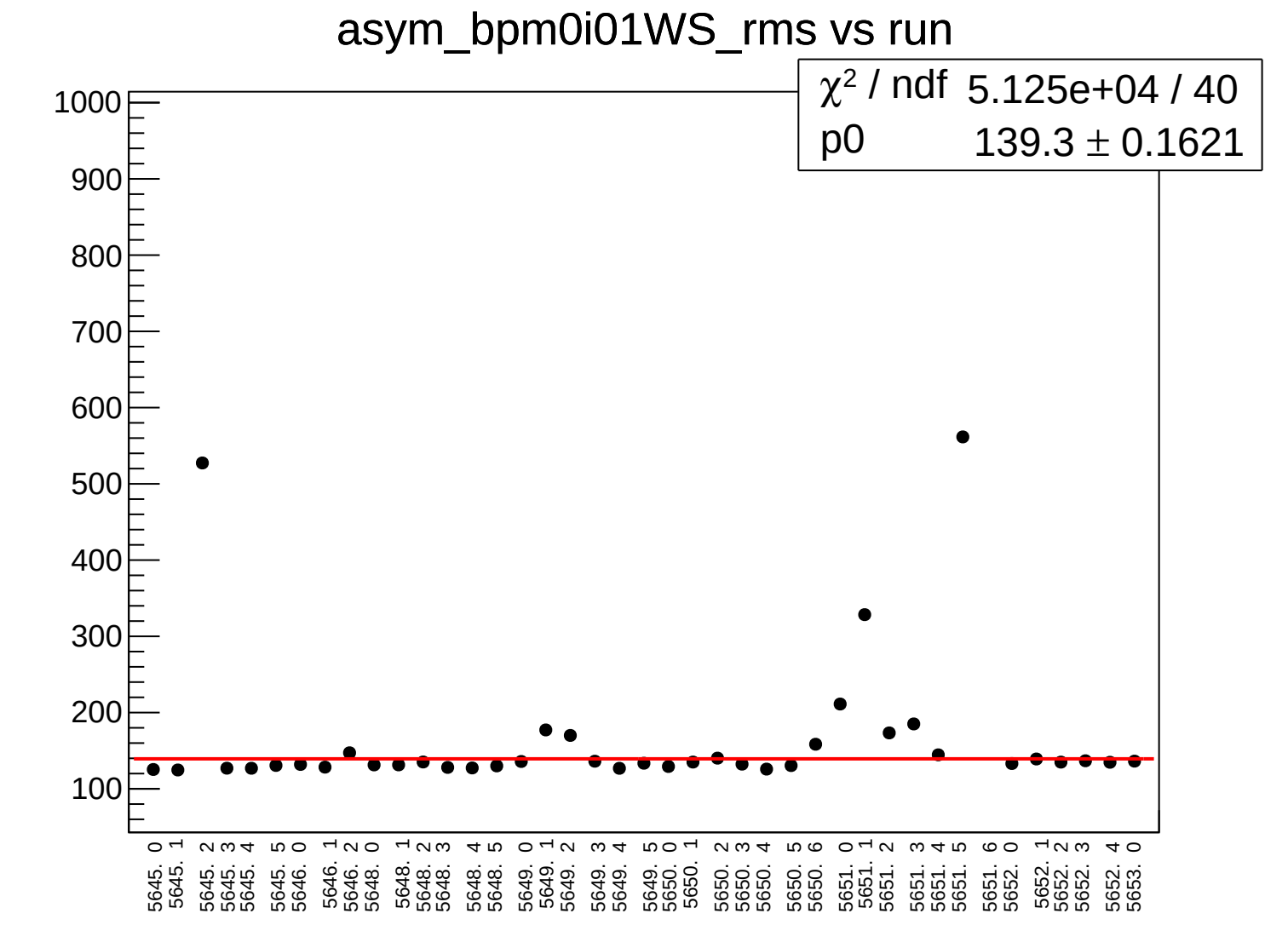

asym_bpm2i02WS_mean vs run
χ² / ndf 251.7 / 40
p0 −9700 ± 191.8
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −134
Std Dev 0
6
4
2
0
−2
−4
−6

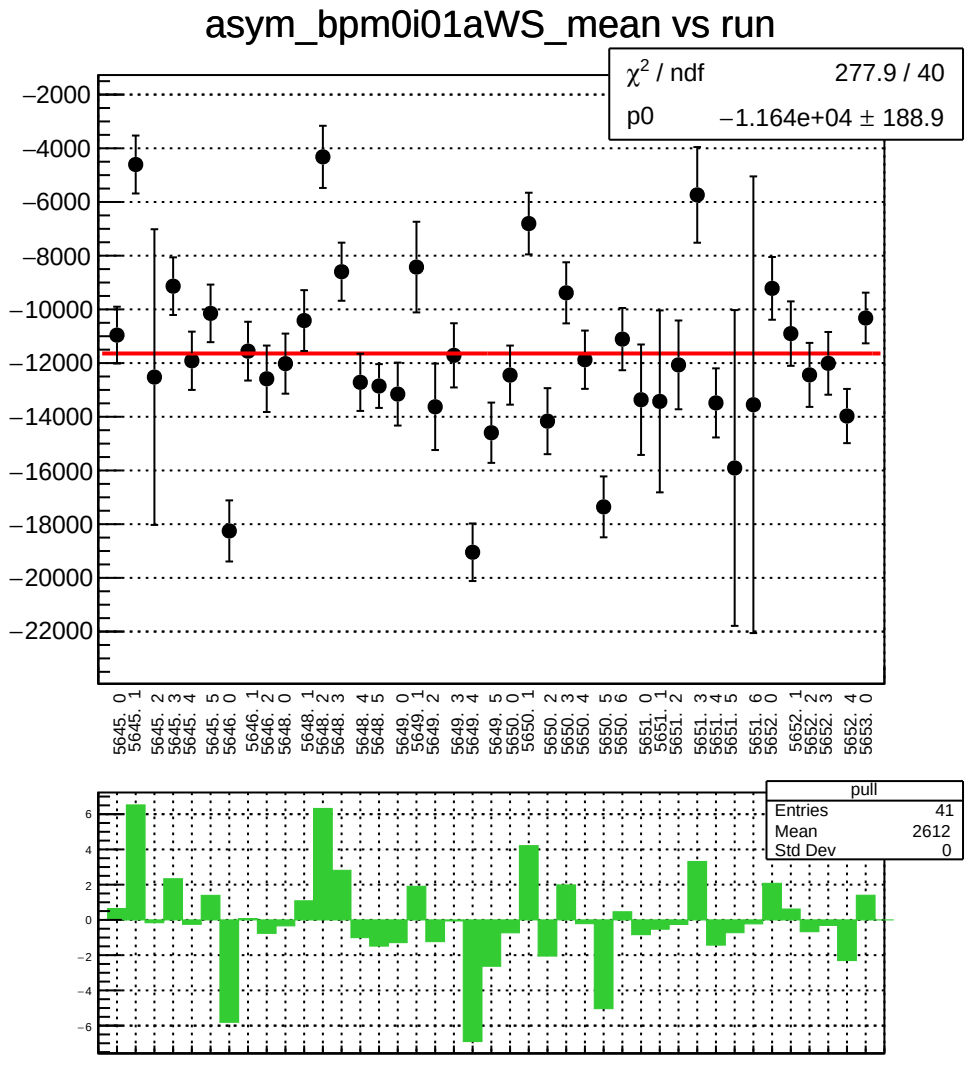

pull1D
Entries 41
Mean 0.03082
Std Dev 2.478
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

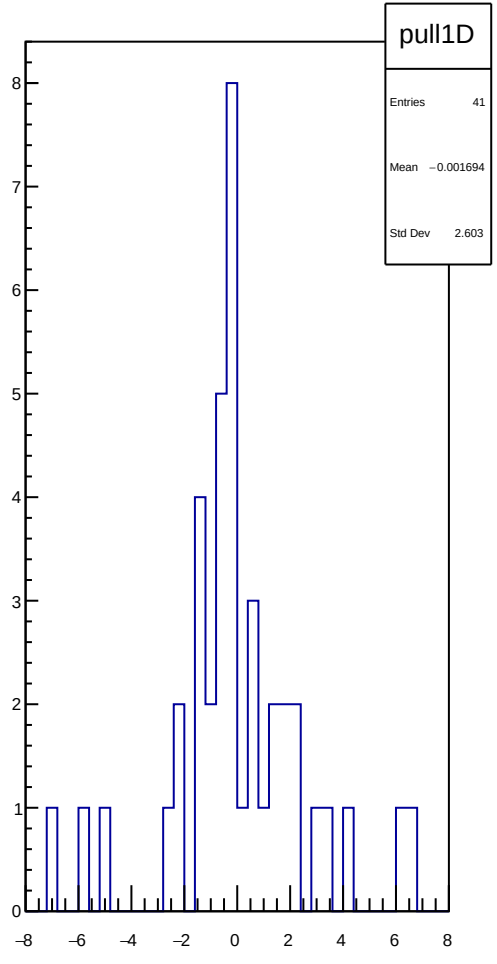

asym_bpm2i02WS_rms vs run
χ^2 / ndf 6.101e+04 / 40
p0 115.8 ± 0.1356
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

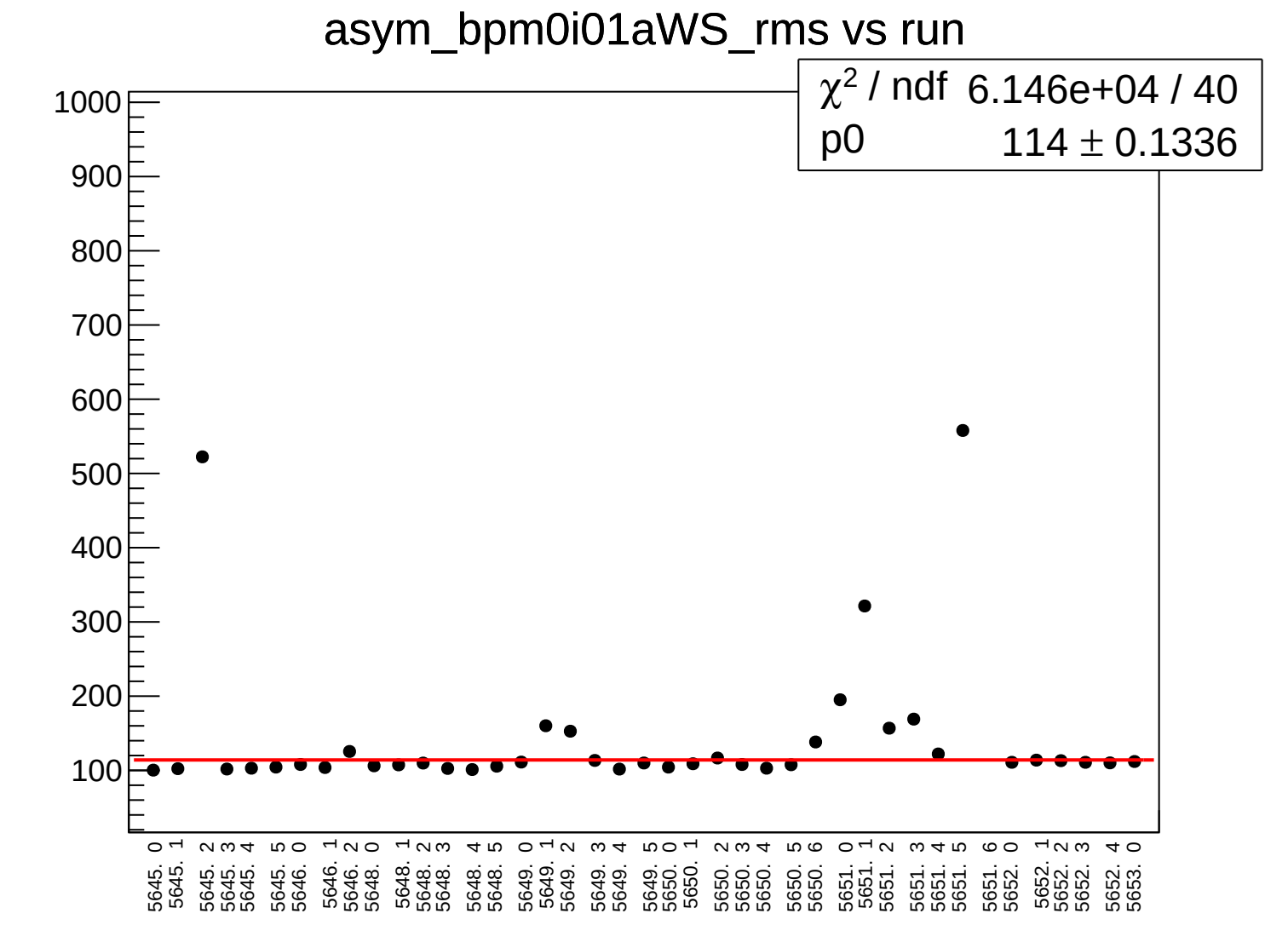

asym_bpm0i01WS_mean vs run
χ² / ndf 220 / 40
p0 −1.13e+04 ± 229.2
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 681.8
Std Dev 0
6
4
2
0
−2
−4

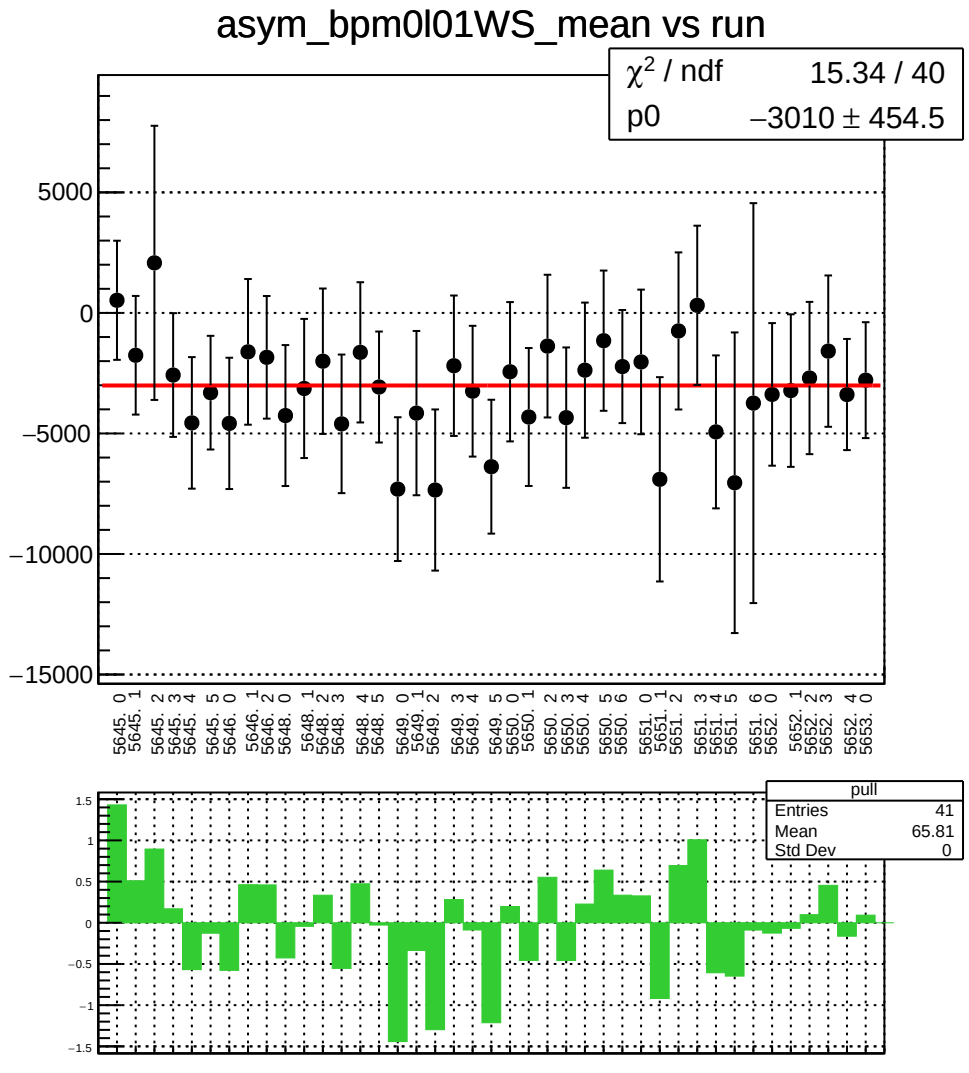

pull1D
Entries 41
Mean −0.005607
Std Dev 2.316
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

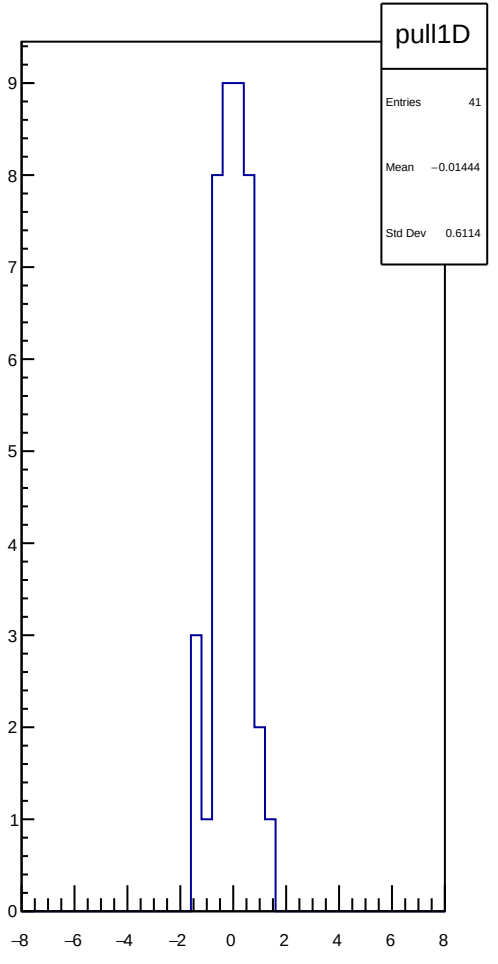

asym_bpm0i01WS_rms vs run
χ² / ndf 5.125e+04 / 40
p0 139.3 ± 0.1621
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

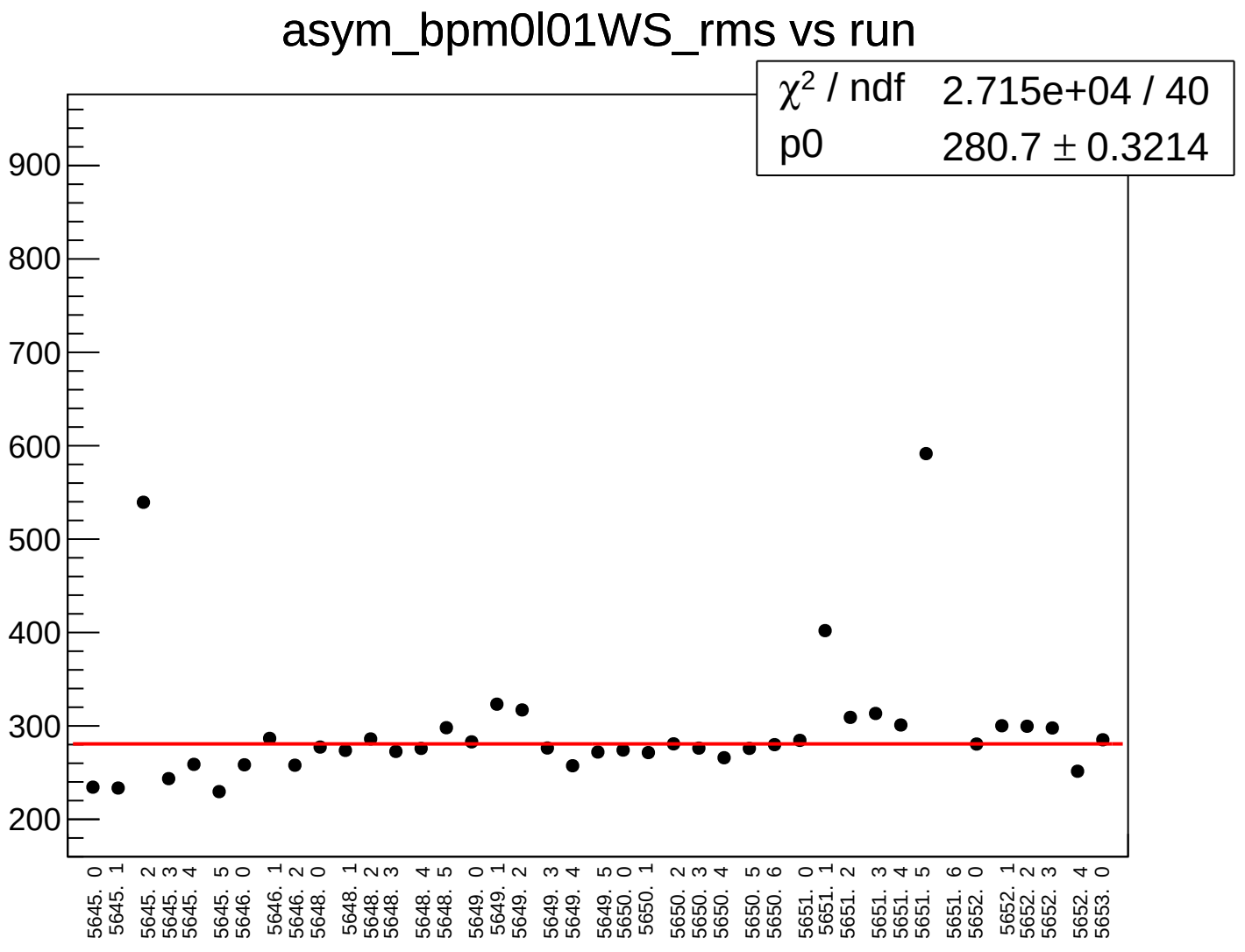

asym_bpm0i01aWS_mean vs run
χ² / ndf 277.9 / 40
p0 −1.164e+04 ± 188.9
pull
Entries 41
Mean 2612
Std Dev 0

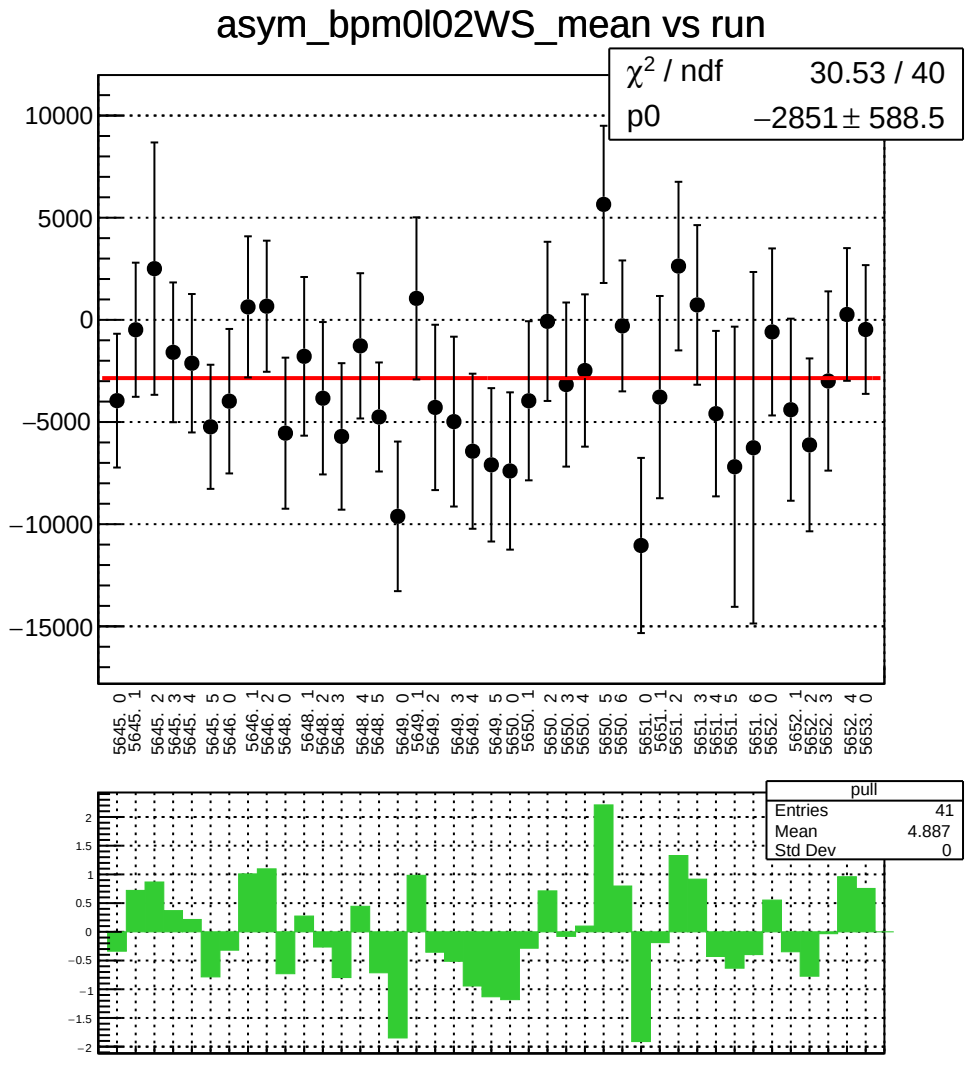

pull1D
Entries 41
Mean −0.001694
Std Dev 2.603

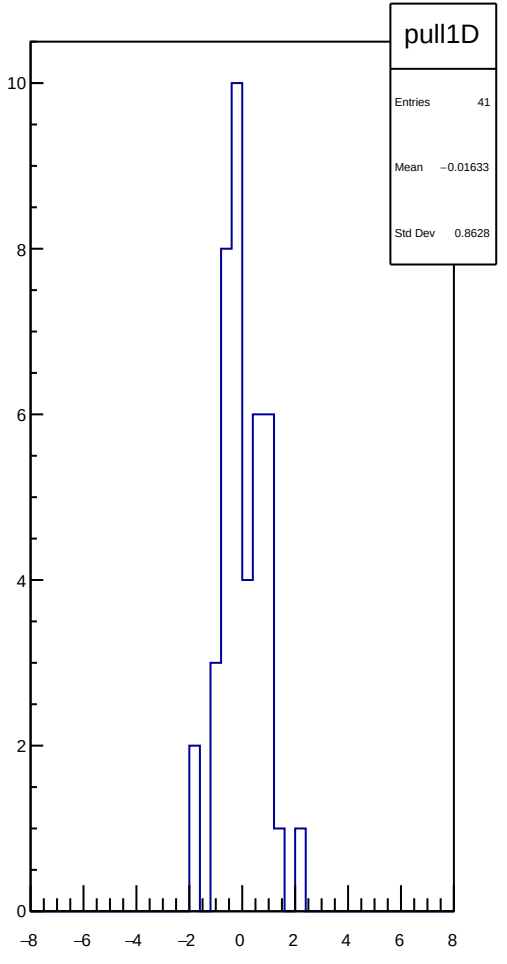

asym_bpm0i01aWS_rms vs run
χ² / ndf 6.146e+04 / 40
p0 114 ± 0.1336
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

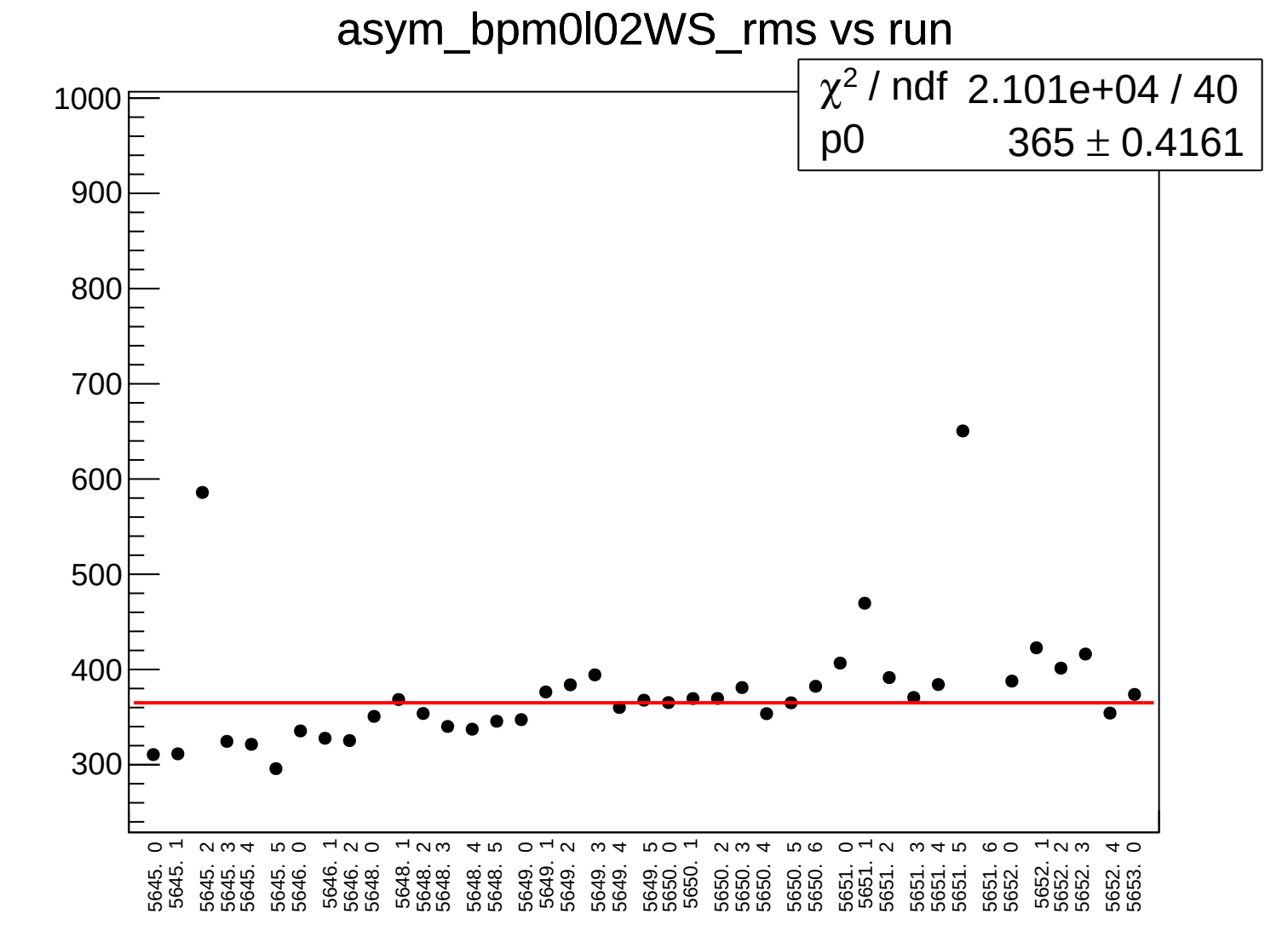

asym_bpm0l01WS_mean vs run
χ² / ndf 15.34 / 40
p0 −3010 ± 454.5
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 65.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

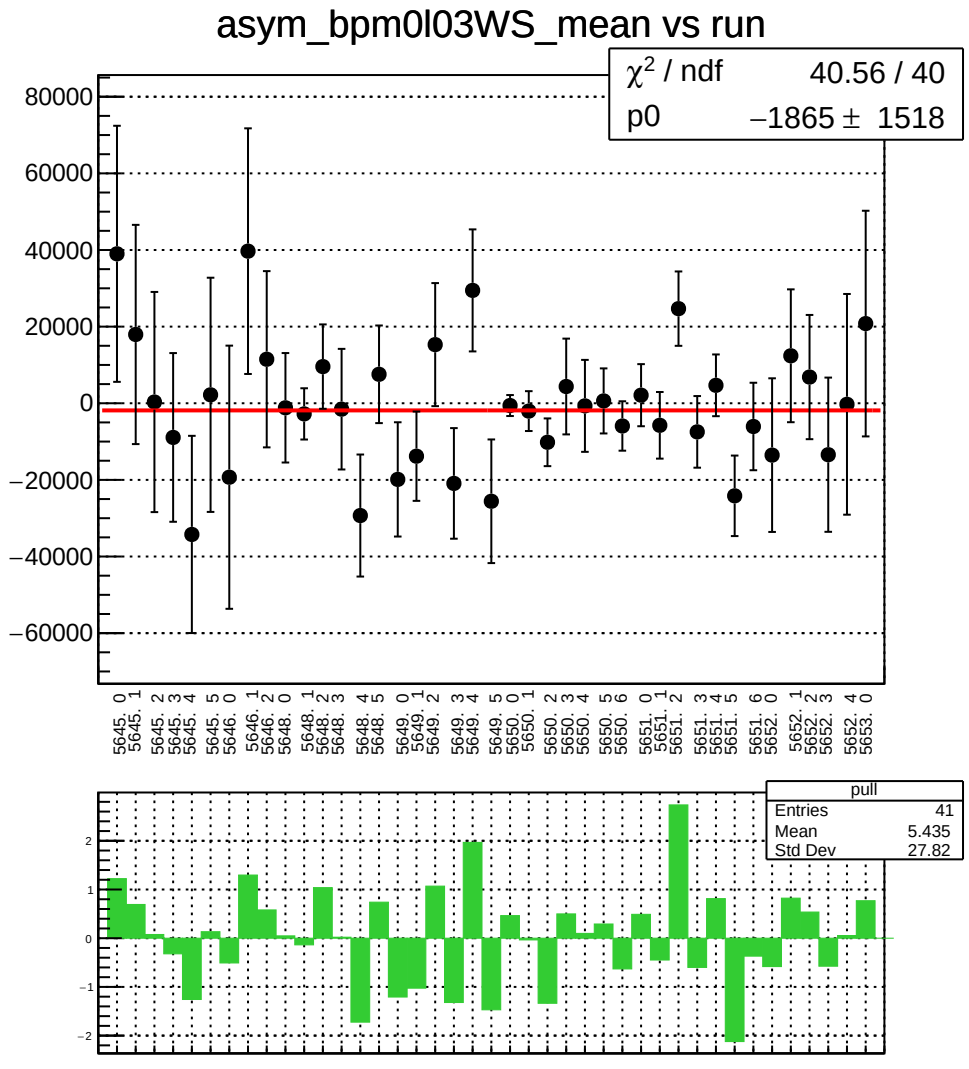

pull1D
Entries 41
Mean −0.01444
Std Dev 0.6114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

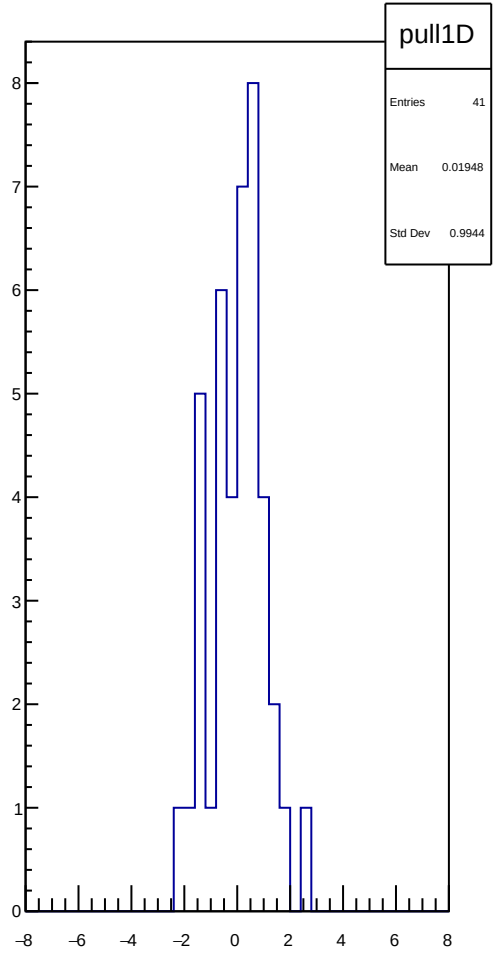

asym_bpm0l01WS_rms vs run
χ² / ndf 2.715e+04 / 40
p0 280.7 ± 0.3214
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

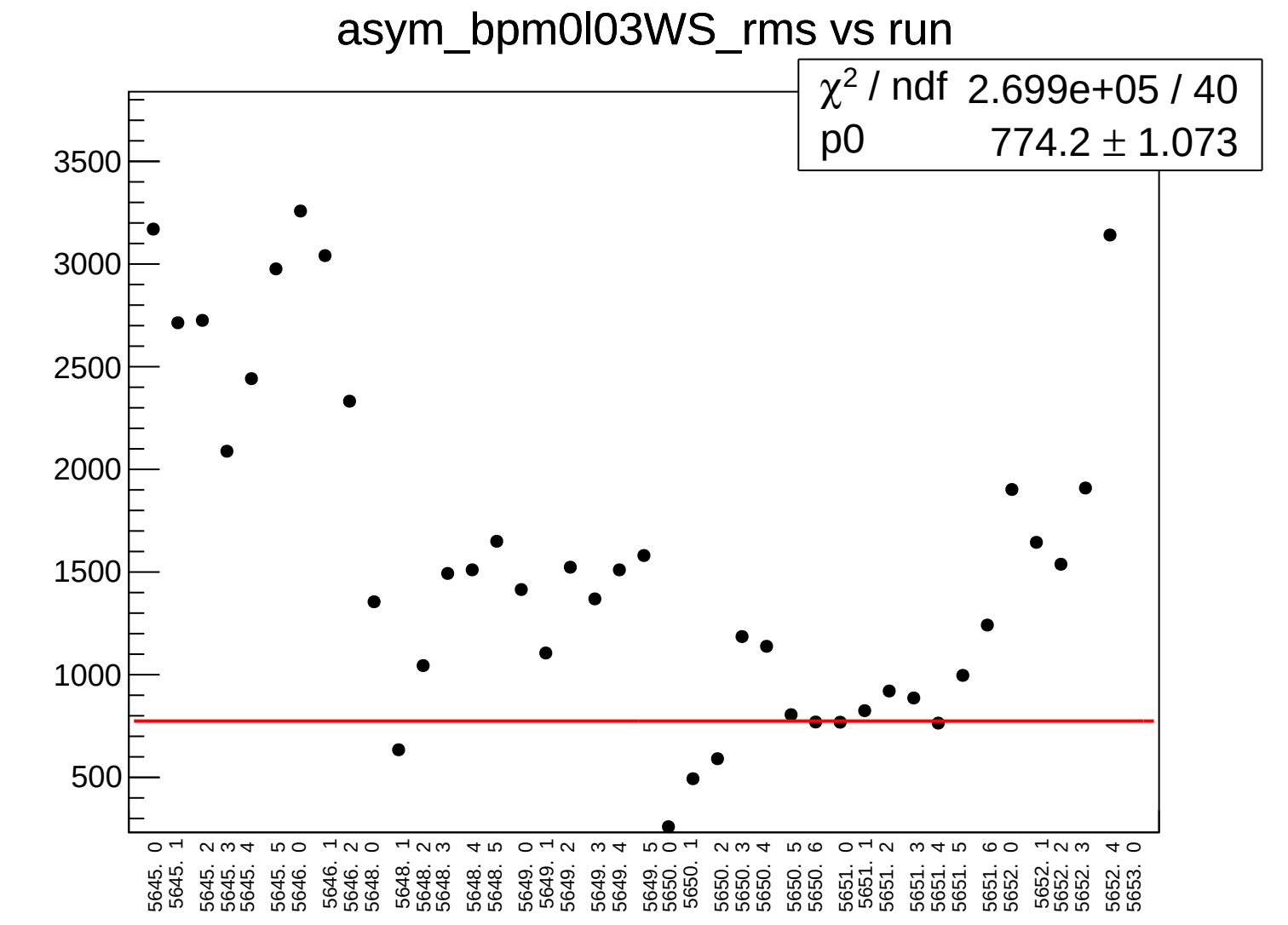

asym_bpm0l02WS_mean vs run
χ² / ndf 30.53 / 40
p0 −2851 ± 588.5
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.887
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

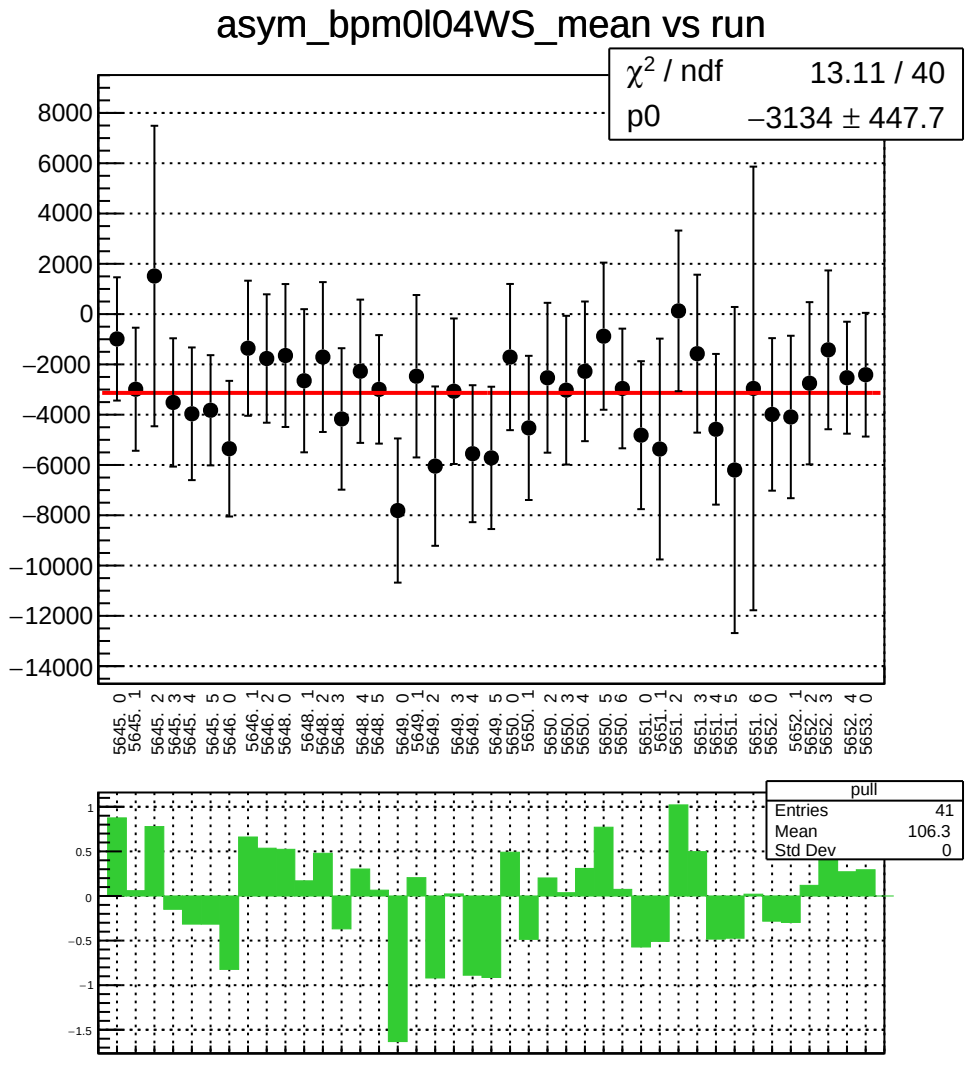

pull1D
Entries 41
Mean −0.01633
Std Dev 0.8628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

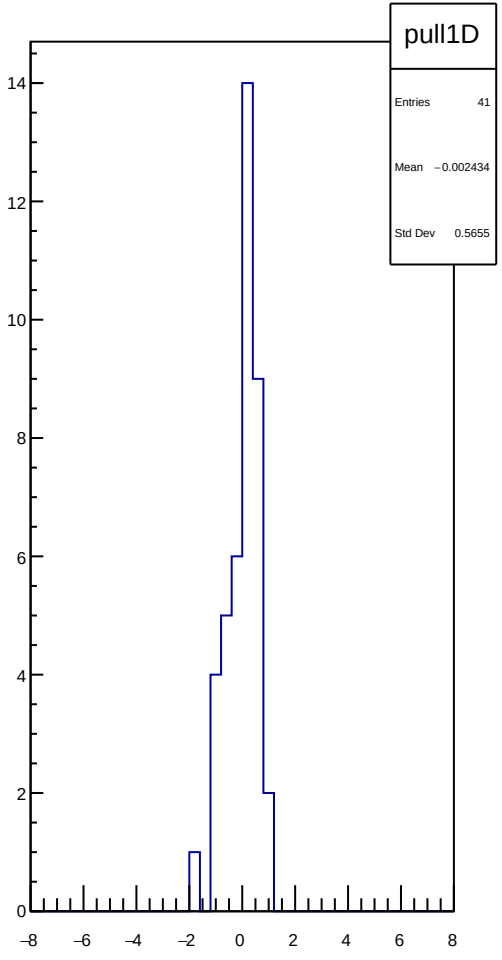

asym_bpm0l02WS_rms vs run
χ² / ndf 2.101e+04 / 40
p0 365 ± 0.4161
1000
900
800
700
600
500
400
300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

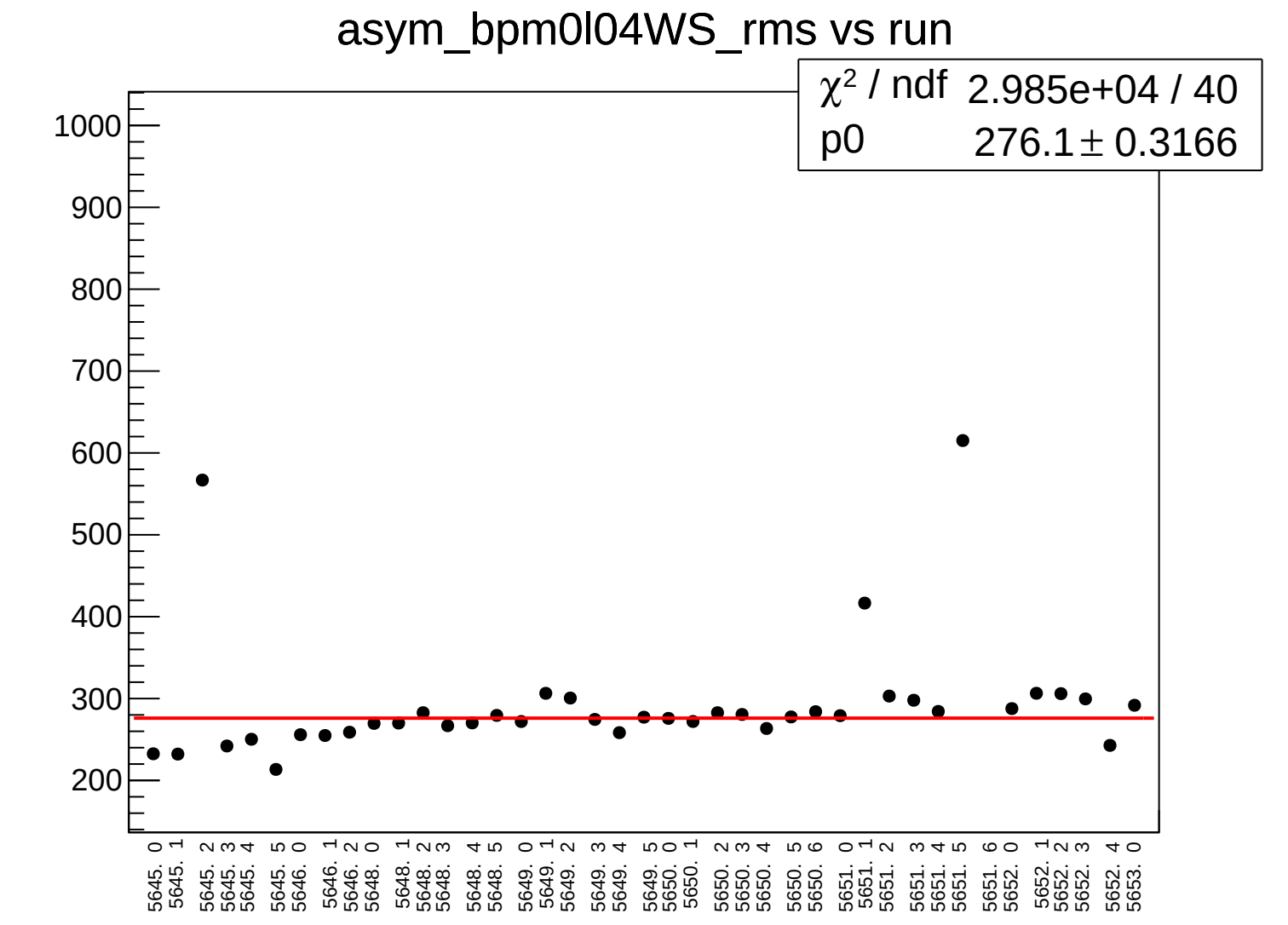

asym_bpm0l03WS_mean vs run
χ² / ndf 40.56 / 40
p0 −1865 ± 1518
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 5.435
Std Dev 27.82
2
1
0
−1
−2

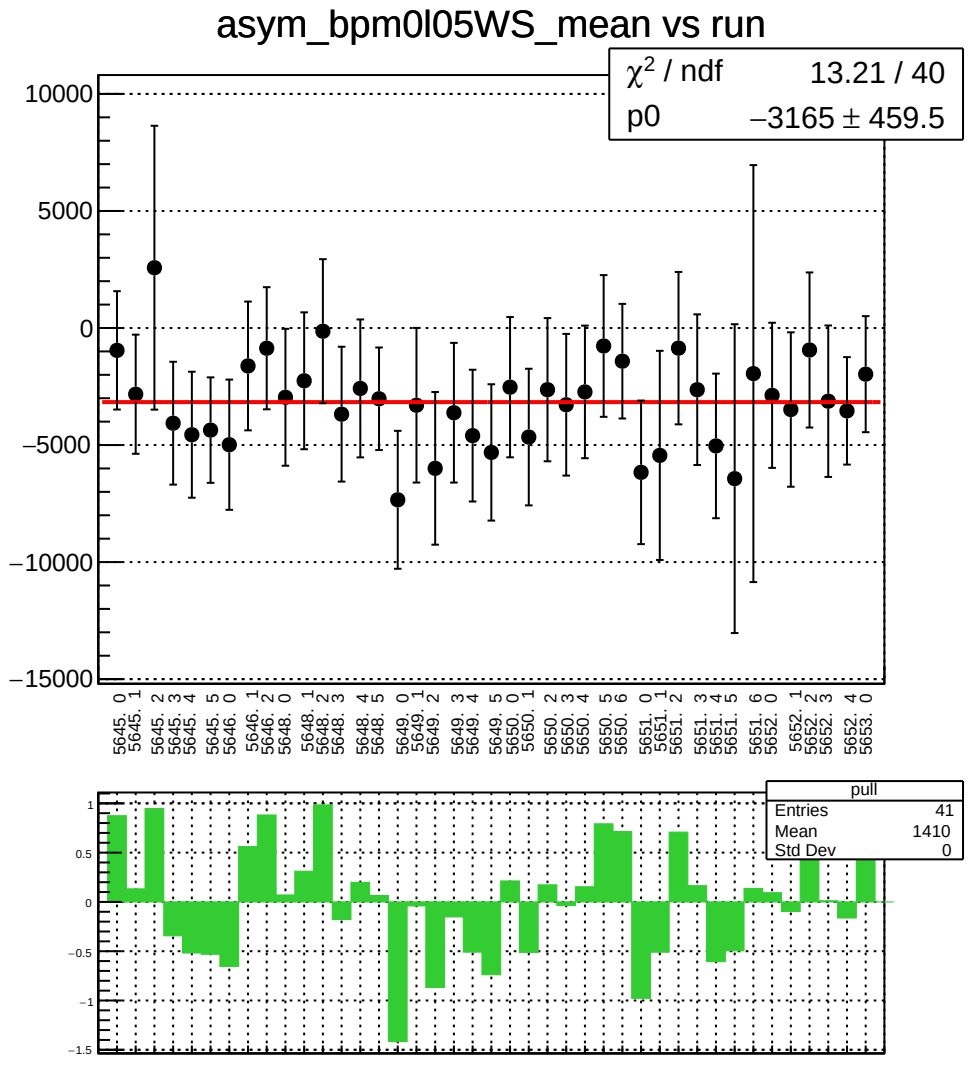

pull1D
Entries 41
Mean 0.01948
Std Dev 0.9944
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

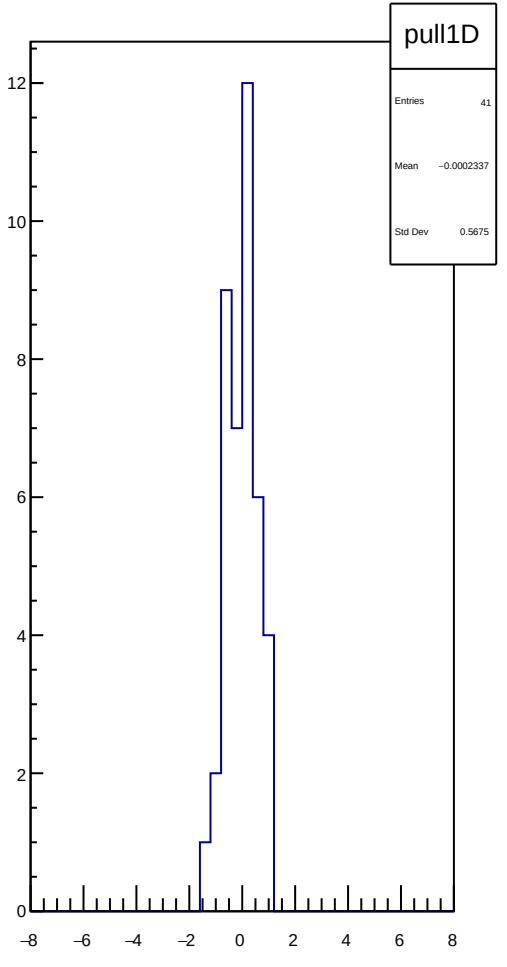

asym_bpm0l03WS_rms vs run
χ² / ndf 2.699e+05 / 40
p0 774.2 ± 1.073
3500
3000
2500
2000
1500
1000
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

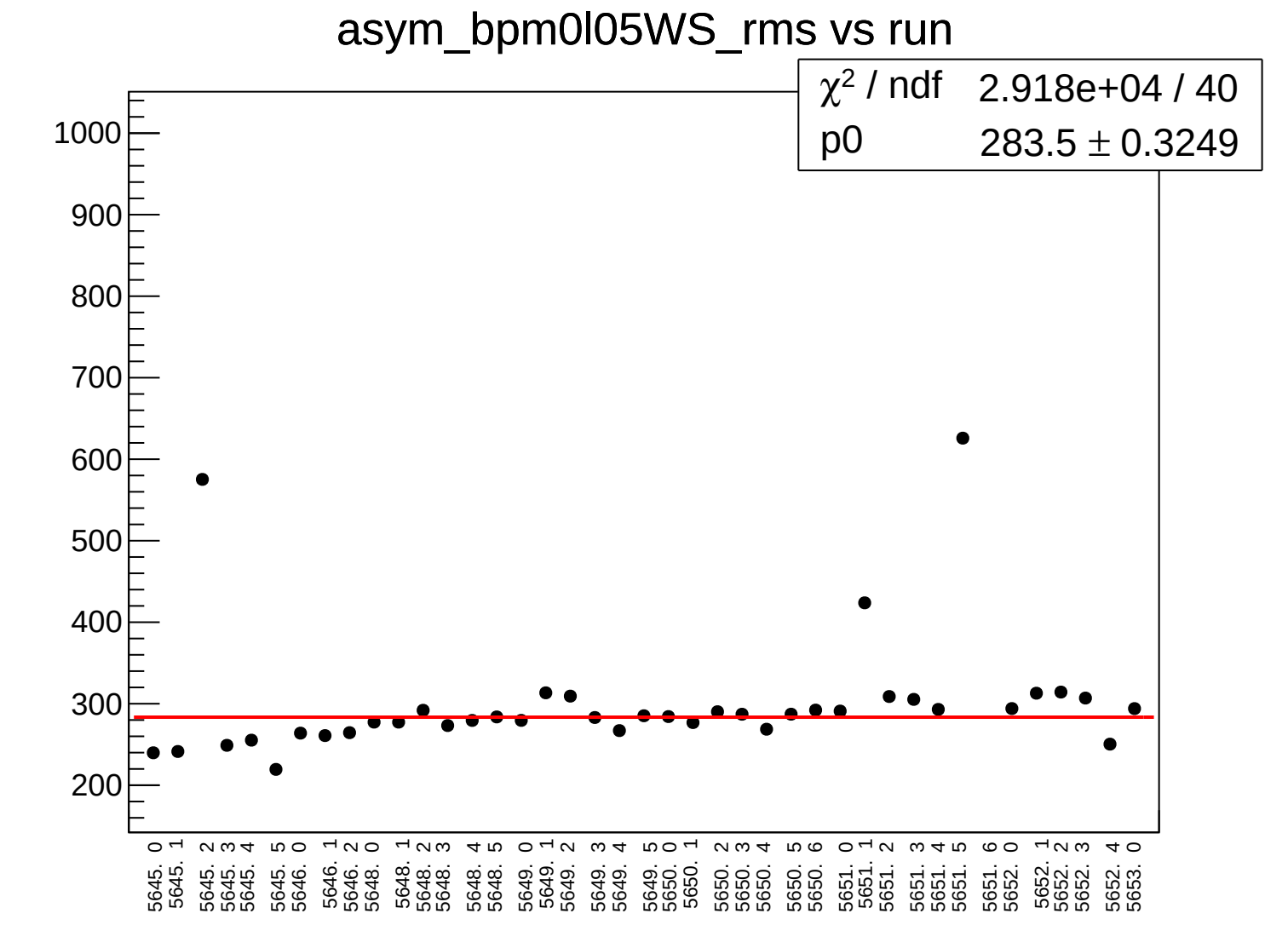

asym_bpm0l04WS_mean vs run
χ² / ndf 13.11 / 40
p0 −3134 ± 447.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 106.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

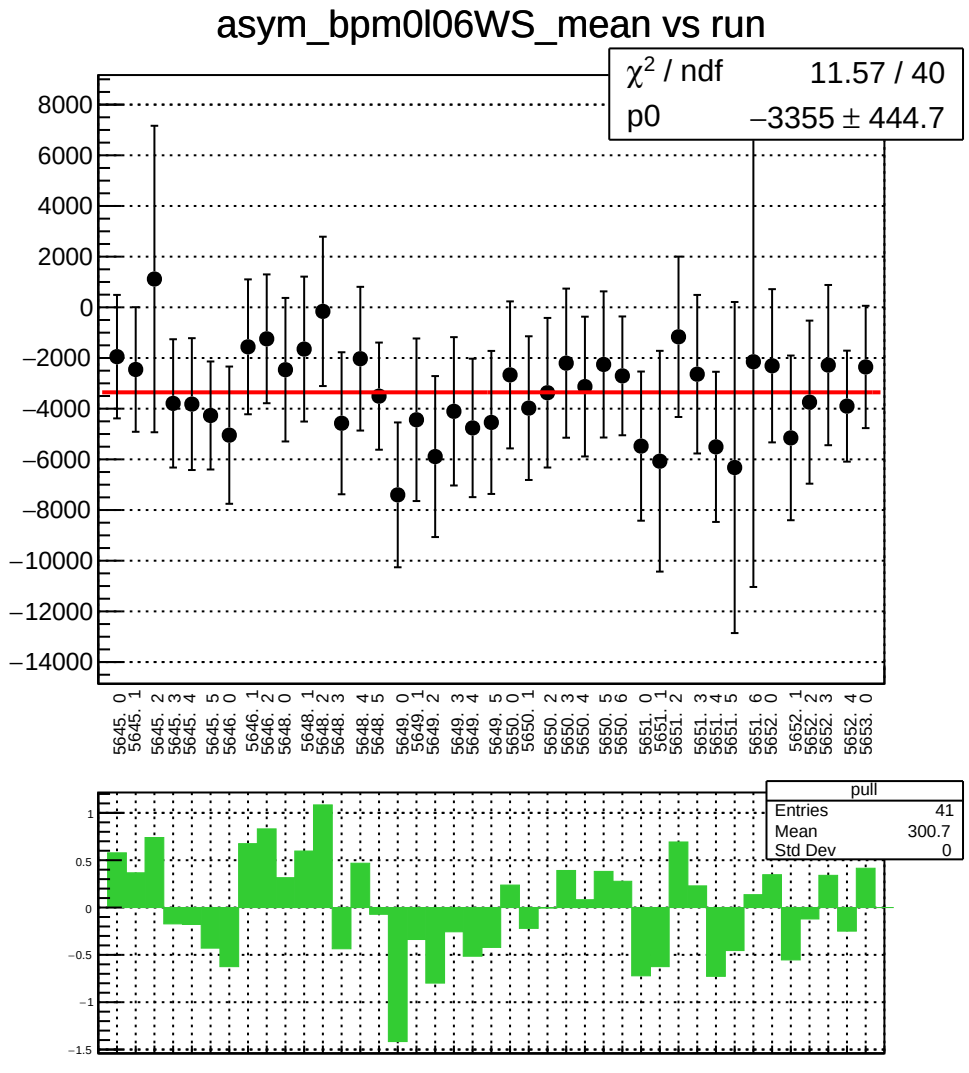

pull1D
Entries 41
Mean −0.002434
Std Dev 0.5655
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

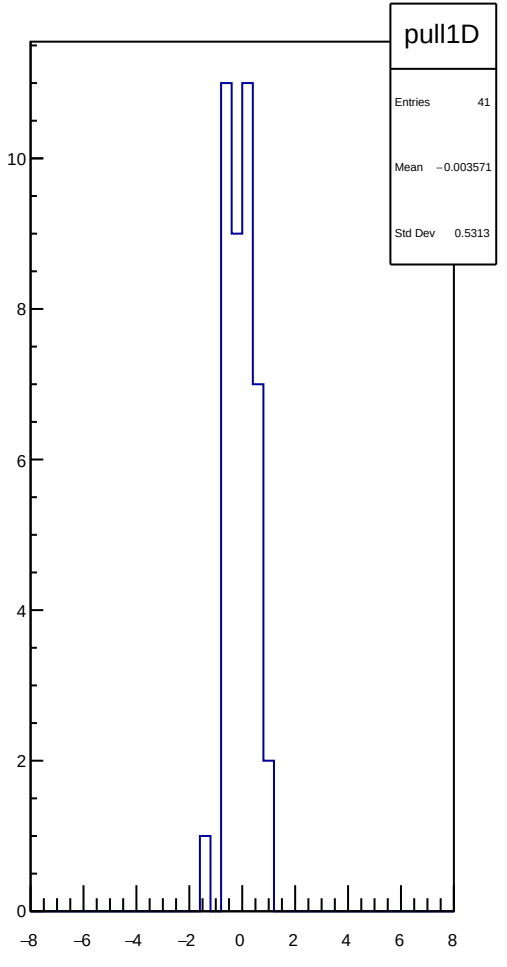

asym_bpm0l04WS_rms vs run
χ² / ndf 2.985e+04 / 40
p0 276.1 ± 0.3166
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

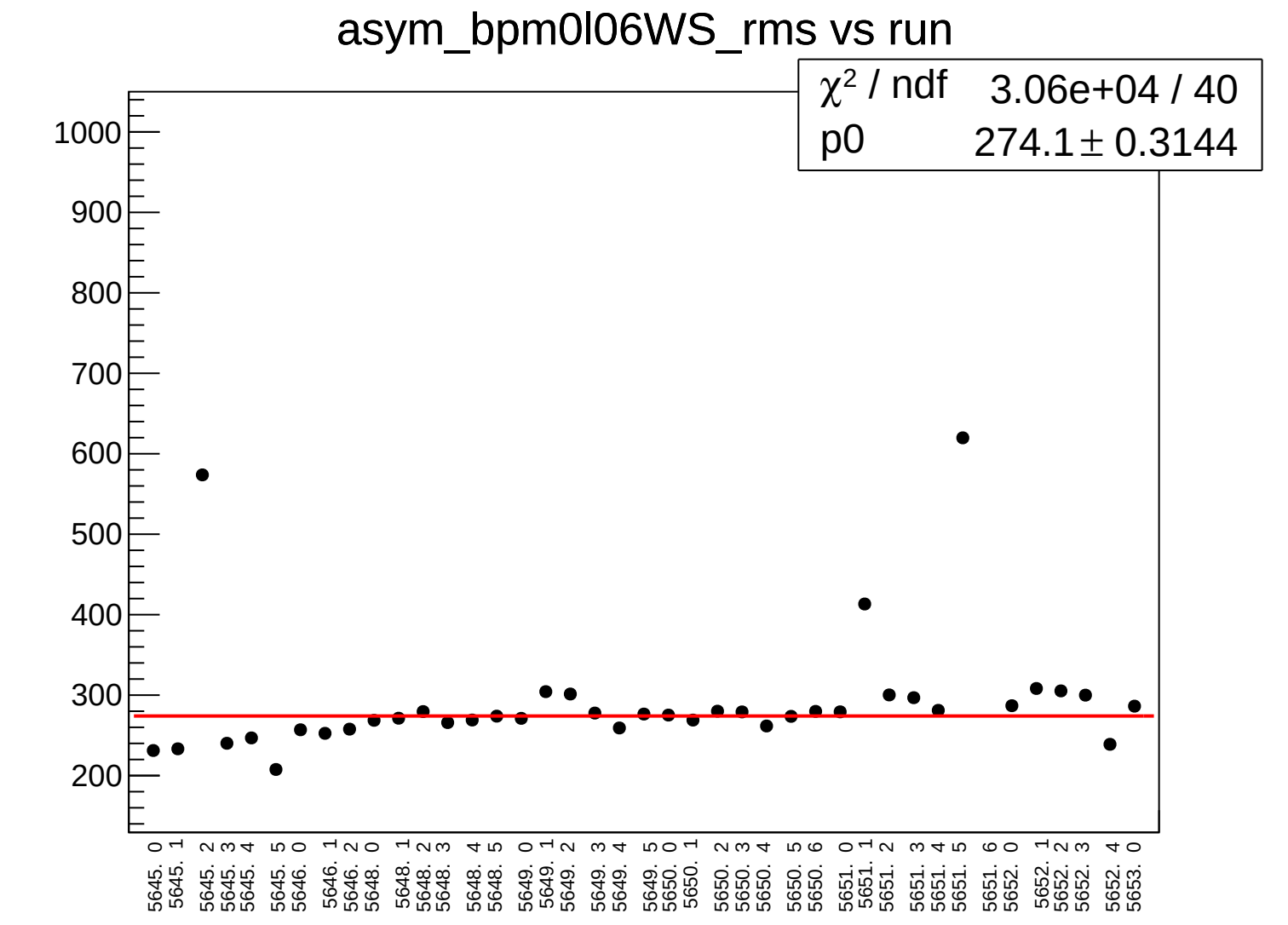

asym_bpm0l05WS_mean vs run
χ² / ndf 13.21 / 40
p0 −3165 ± 459.5
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1410
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

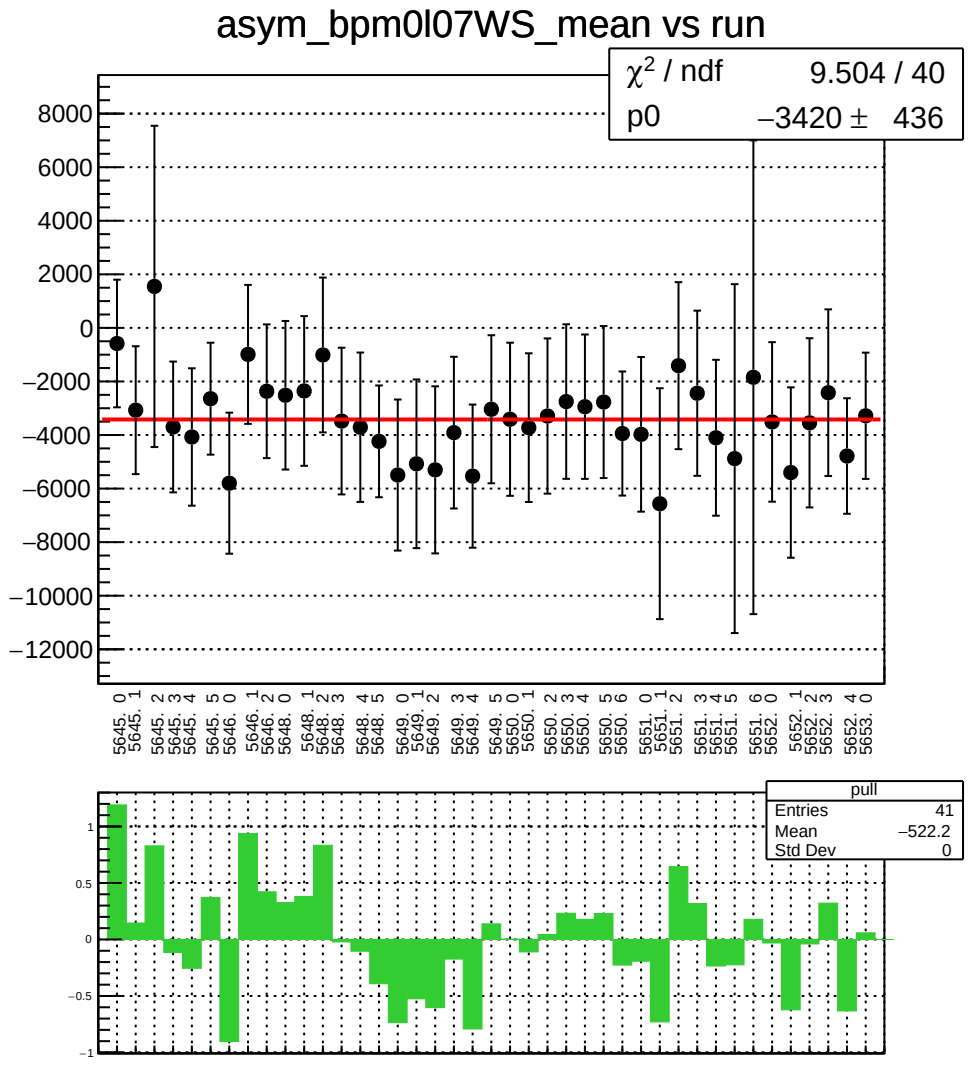

pull1D
Entries 41
Mean −0.0002337
Std Dev 0.5675
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

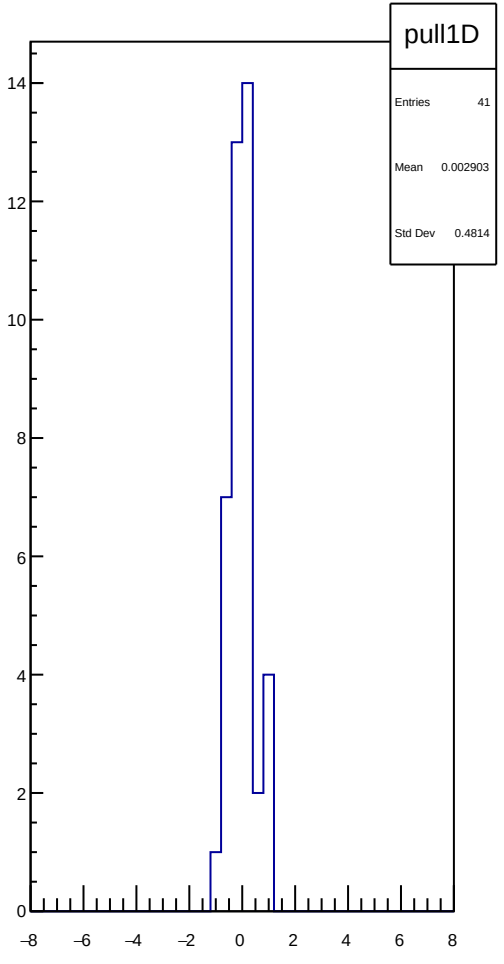

asym_bpm0l05WS_rms vs run
χ² / ndf 2.918e+04 / 40
p0 283.5 ± 0.3249
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

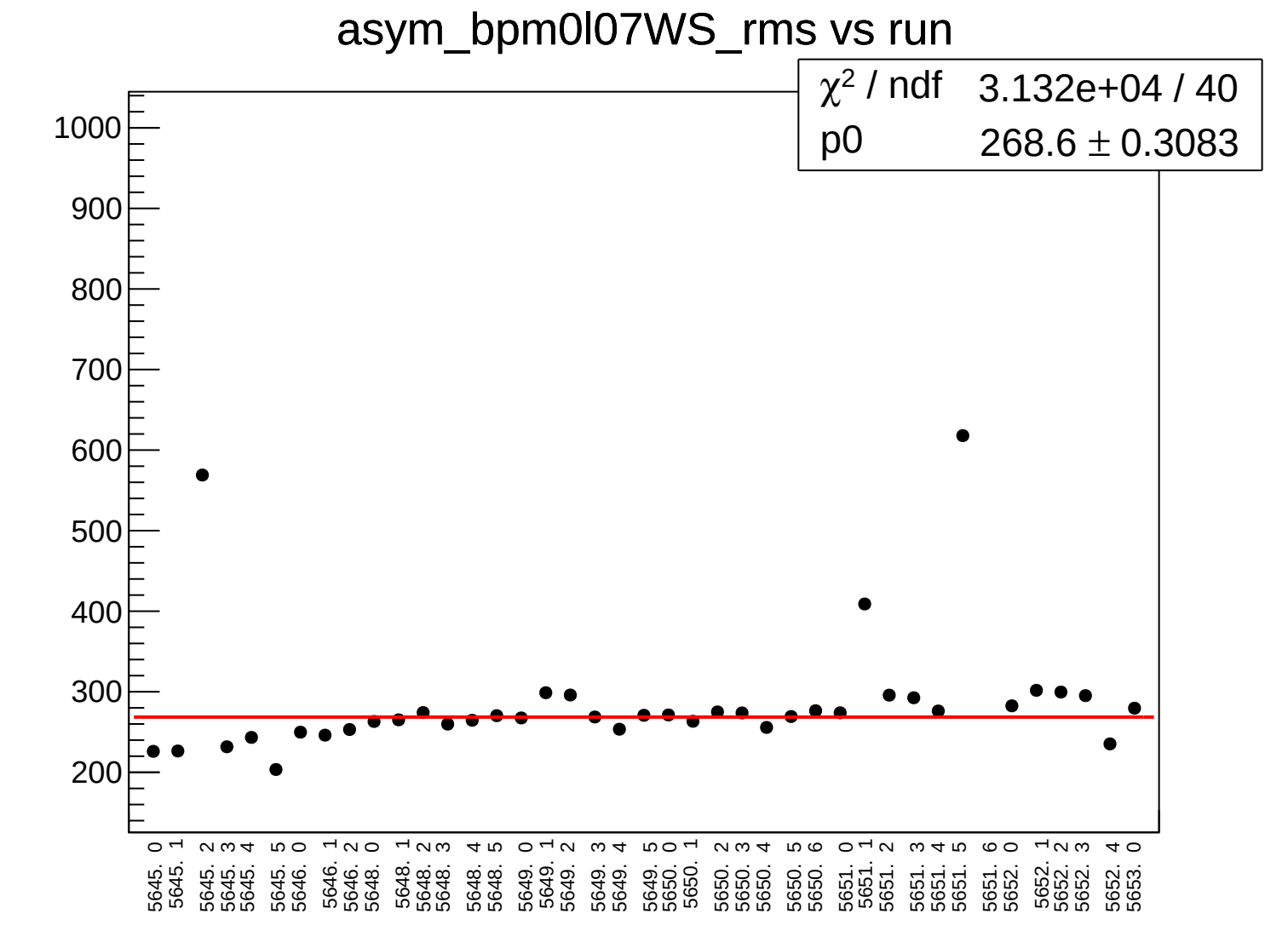

asym_bpm0l06WS_mean vs run
χ² / ndf 11.57 / 40
p0 −3355 ± 444.7
pull
Entries 41
Mean 300.7
Std Dev 0

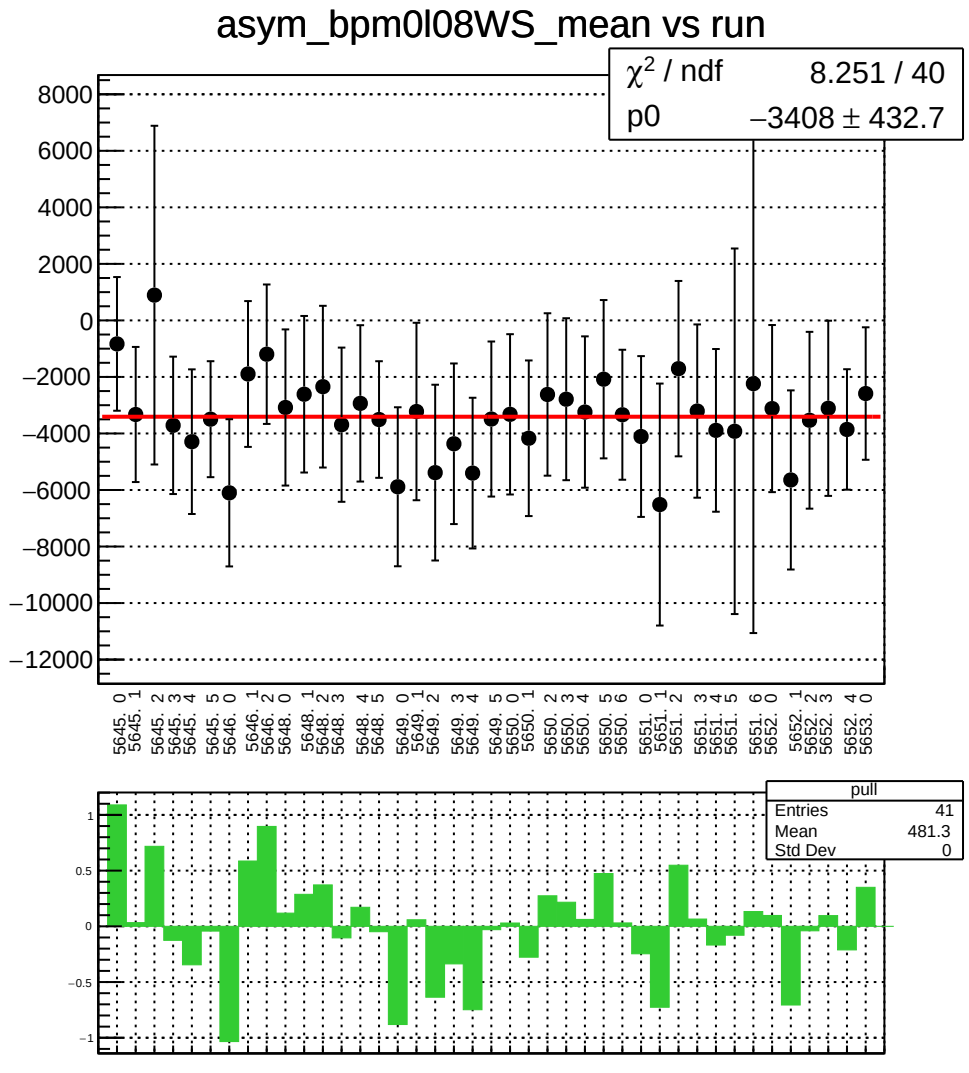

pull1D
Entries 41
Mean −0.003571
Std Dev 0.5313

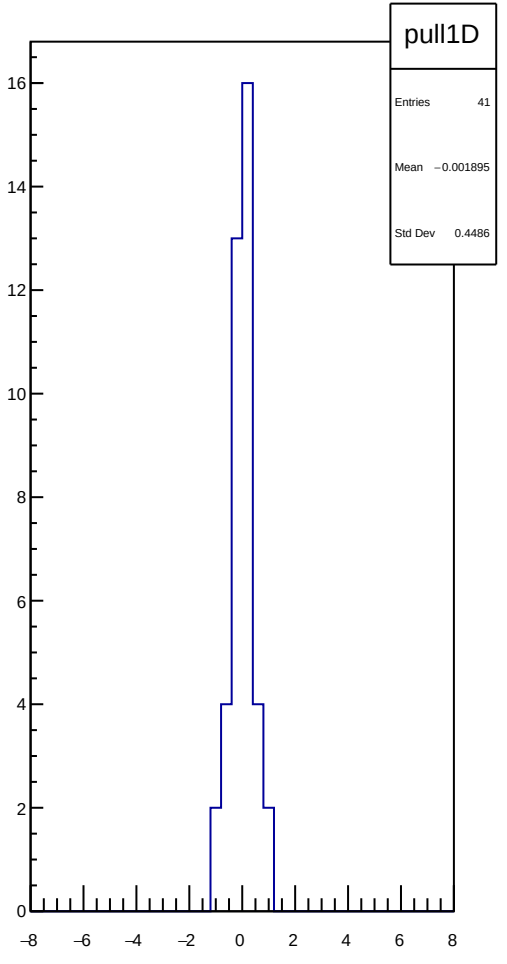

asym_bpm0l06WS_rms vs run
χ² / ndf 3.06e+04 / 40
p0 274.1 ± 0.3144
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

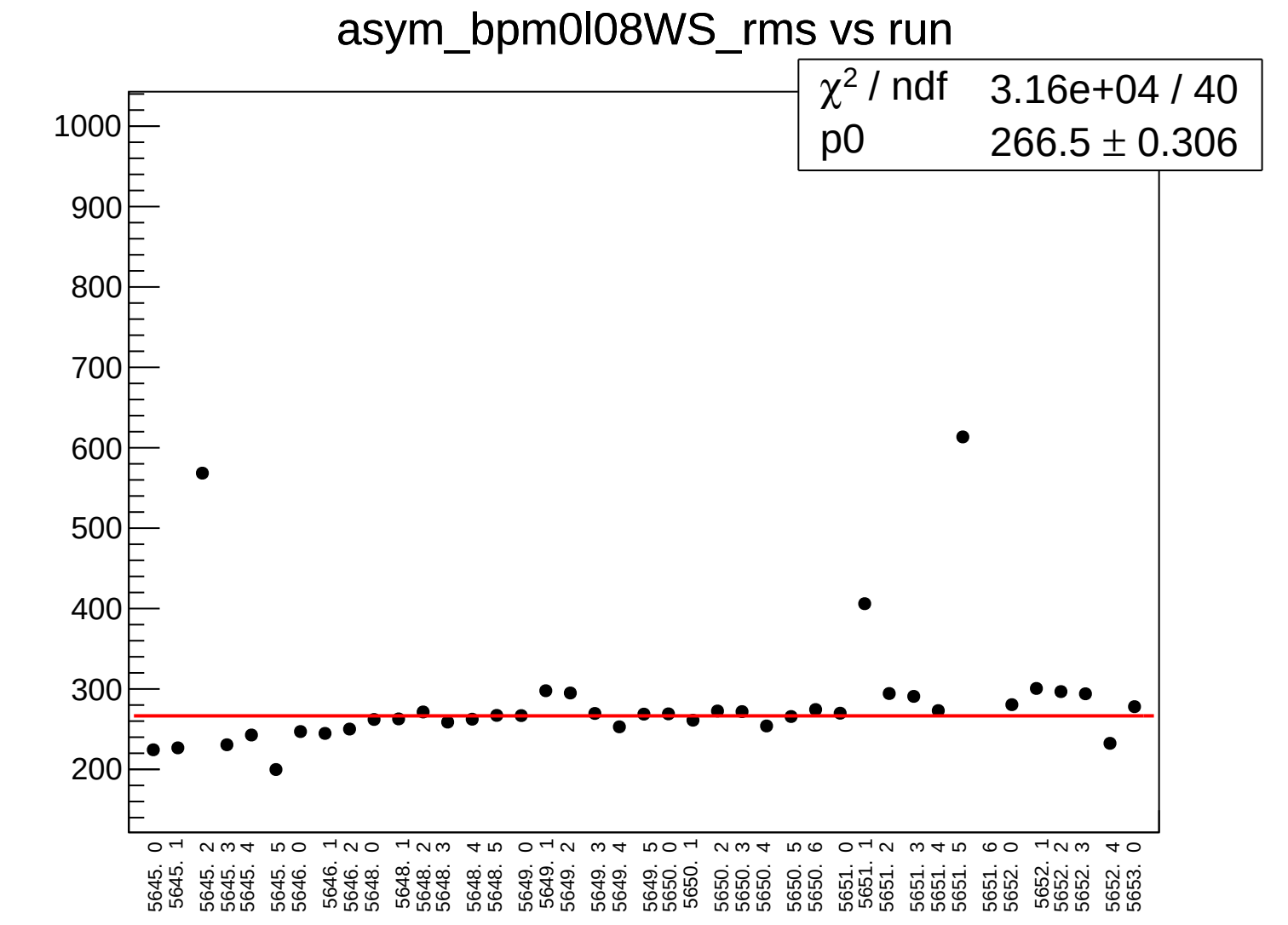

asym_bpm0l07WS_mean vs run
χ² / ndf 9.504 / 40
p0 −3420 ± 436
pull
Entries 41
Mean −522.2
Std Dev 0

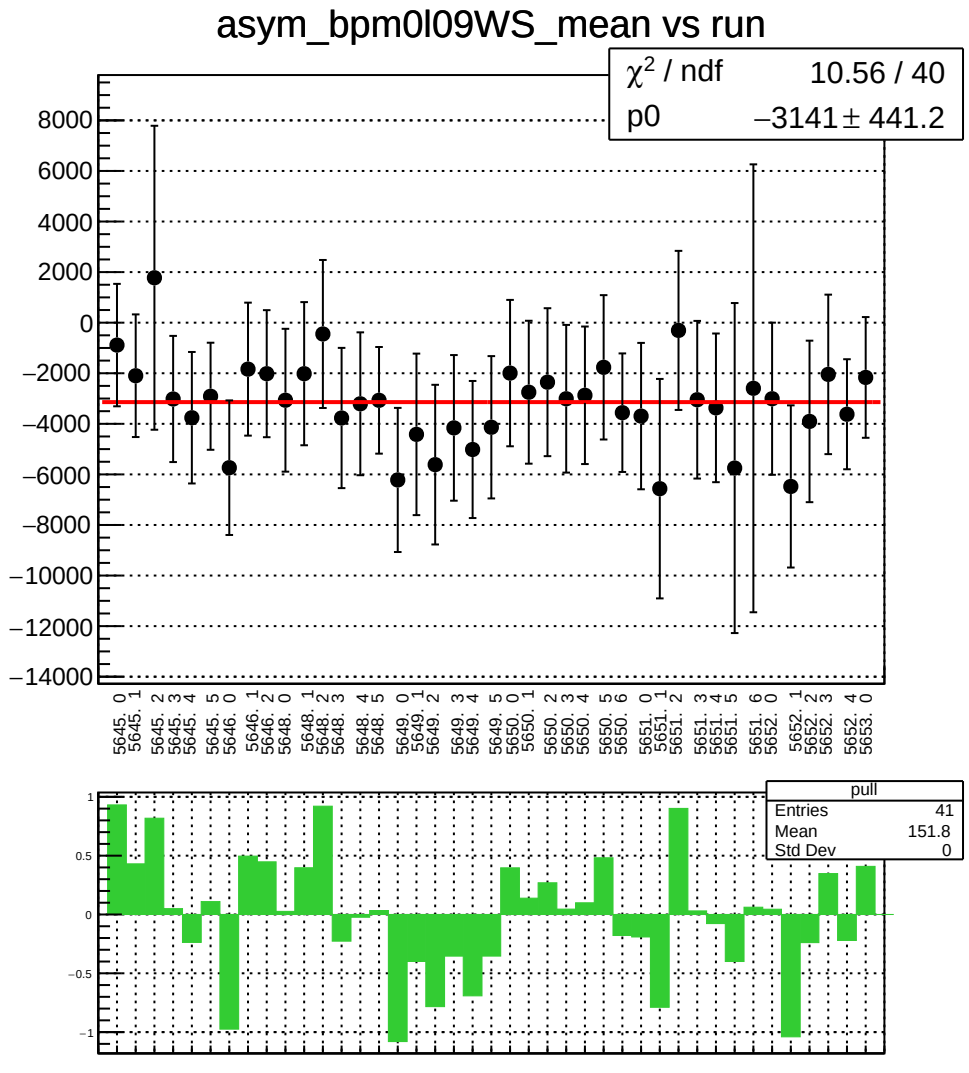

pull1D
Entries 41
Mean 0.002903
Std Dev 0.4814

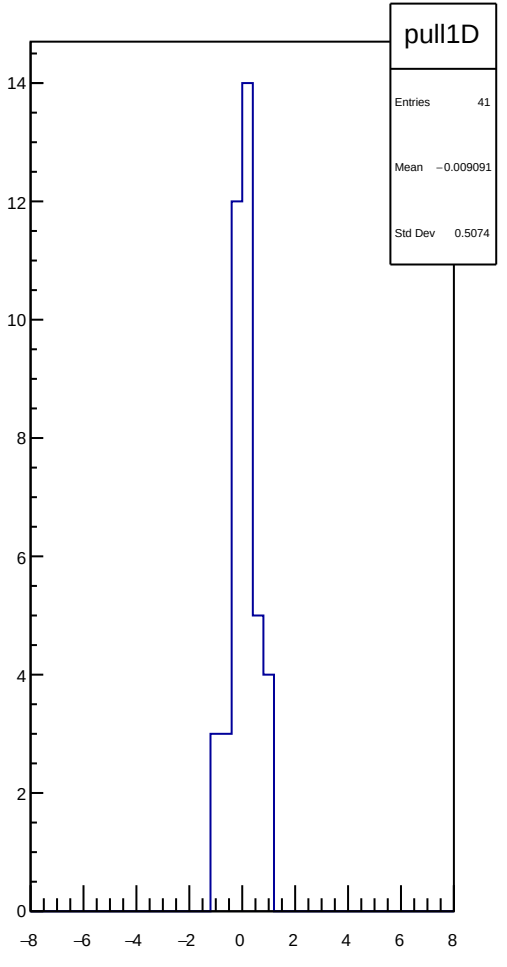

asym_bpm0l07WS_rms vs run
χ² / ndf 3.132e+04 / 40
p0 268.6 ± 0.3083
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

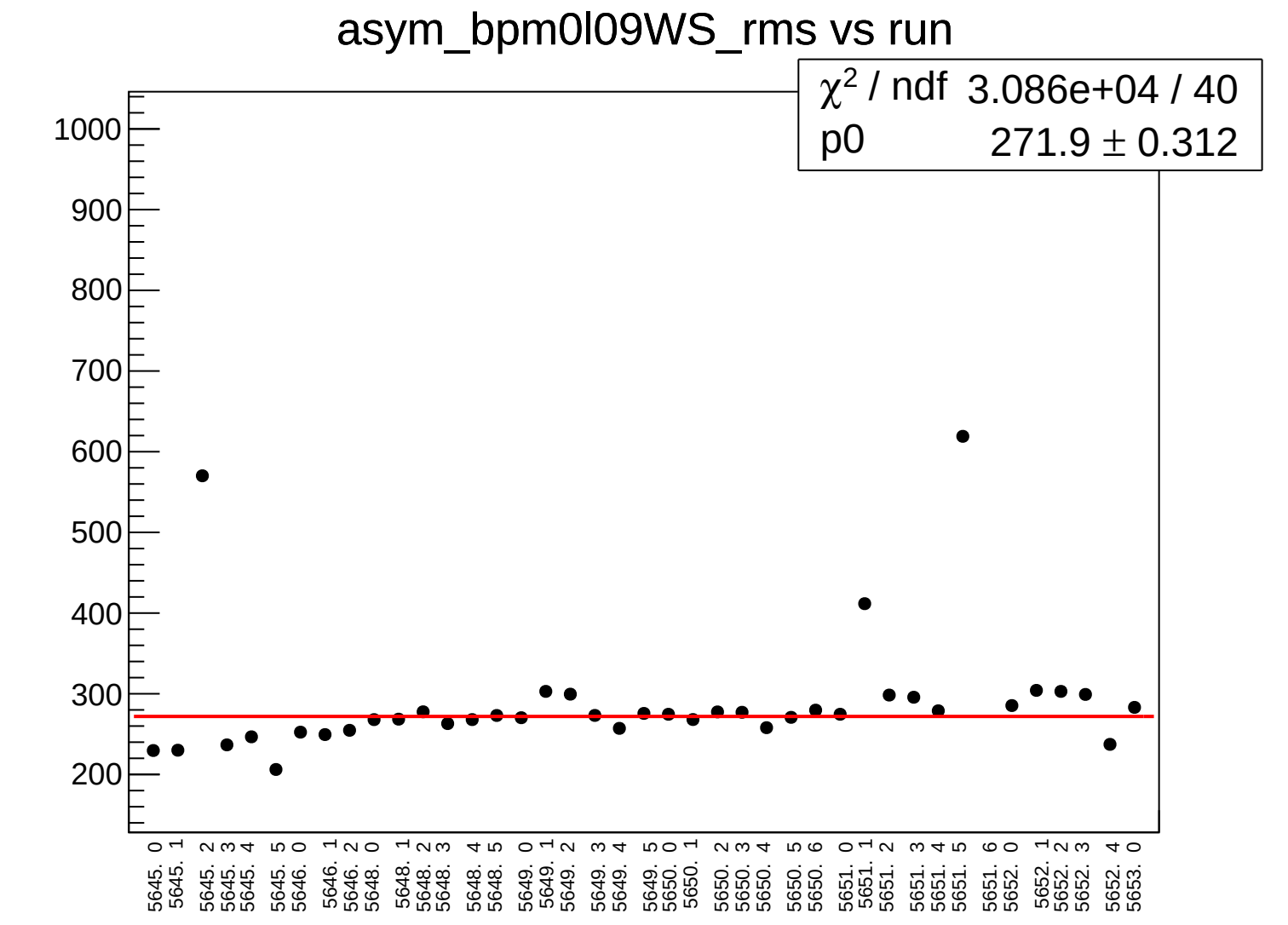

asym_bpm0l08WS_mean vs run
χ² / ndf 8.251 / 40
p0 −3408 ± 432.7
pull
Entries 41
Mean 481.3
Std Dev 0

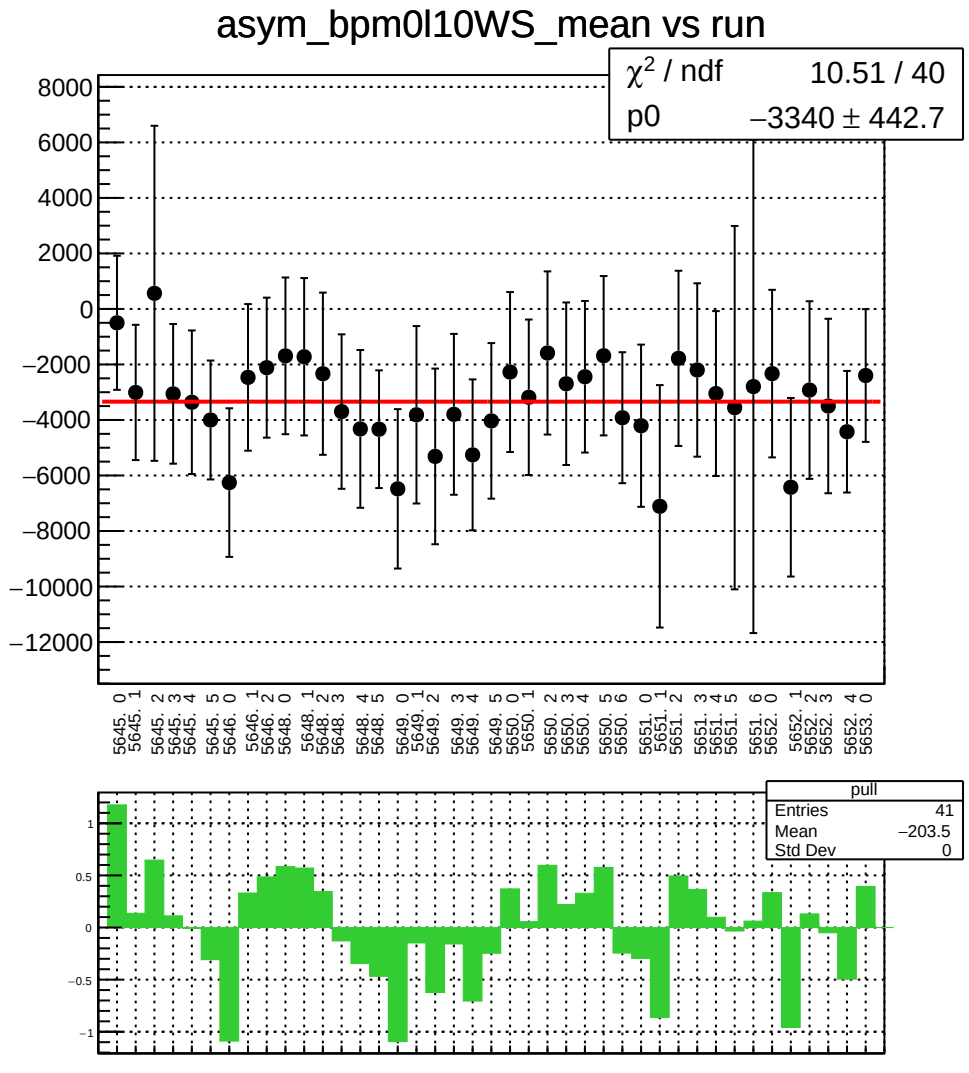

pull1D
Entries 41
Mean −0.001895
Std Dev 0.4486

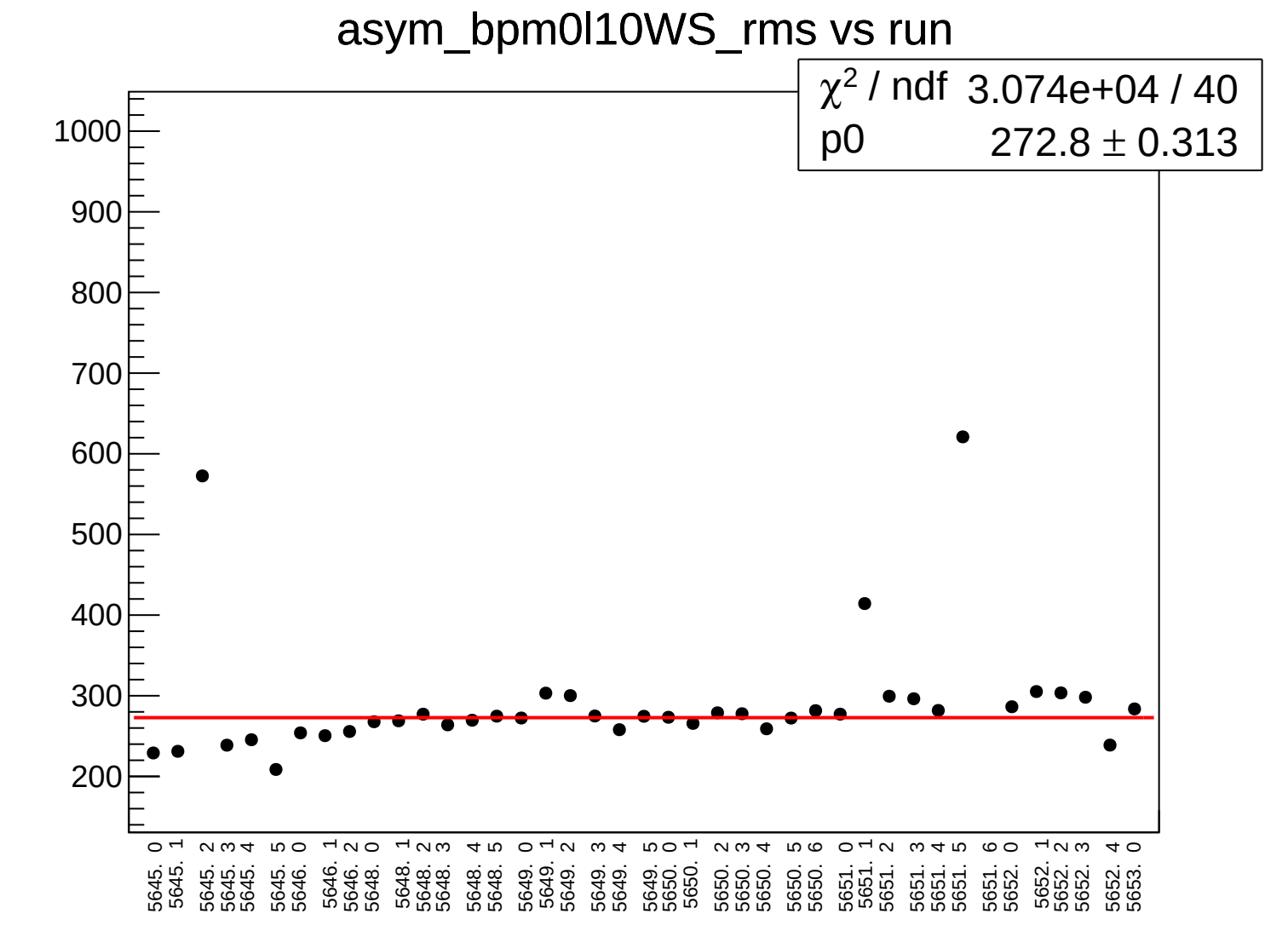

asym_bpm0l08WS_rms vs run
χ² / ndf 3.16e+04 / 40
p0 266.5 ± 0.306
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

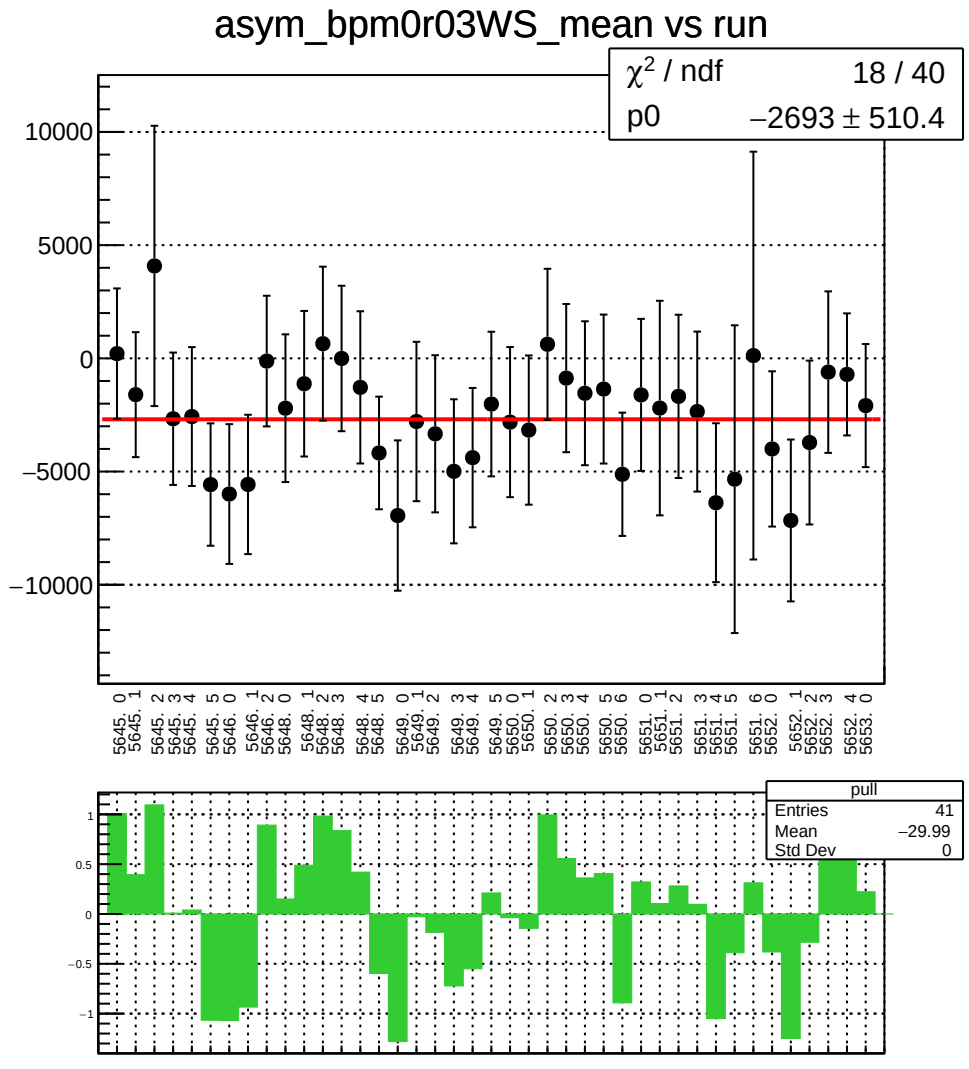

asym_bpm0l09WS_mean vs run
χ² / ndf 10.56 / 40
p0 −3141 ± 441.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.8
Std Dev 0
1
0.5
0
−0.5
−1

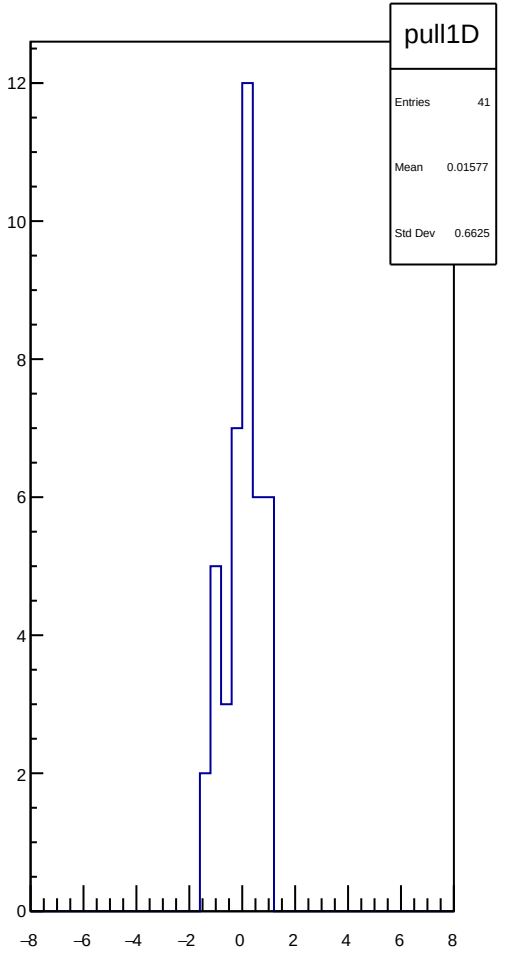

pull1D
Entries 41
Mean −0.009091
Std Dev 0.5074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

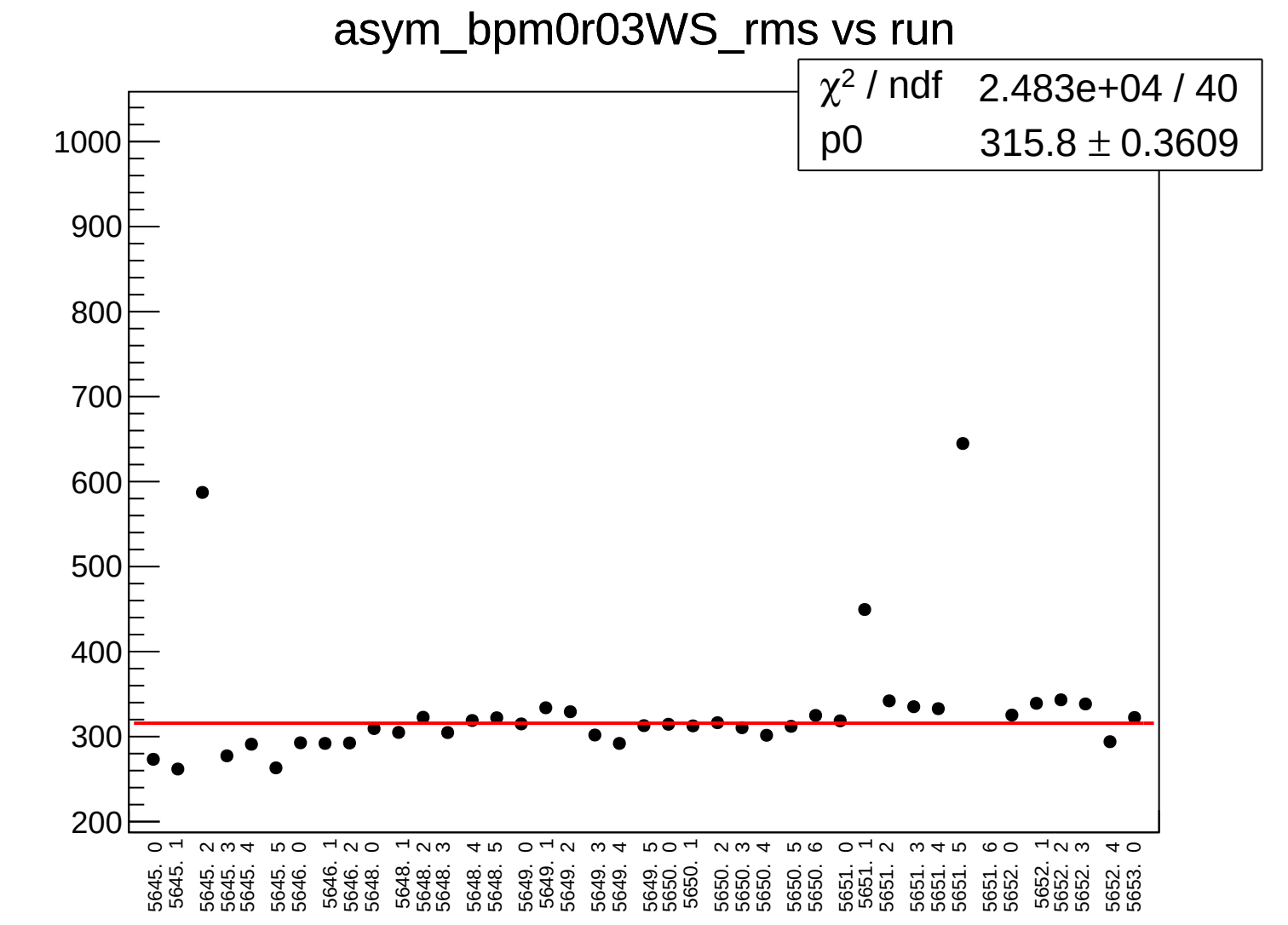

asym_bpm0l09WS_rms vs run
χ² / ndf 3.086e+04 / 40
p0 271.9 ± 0.312
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

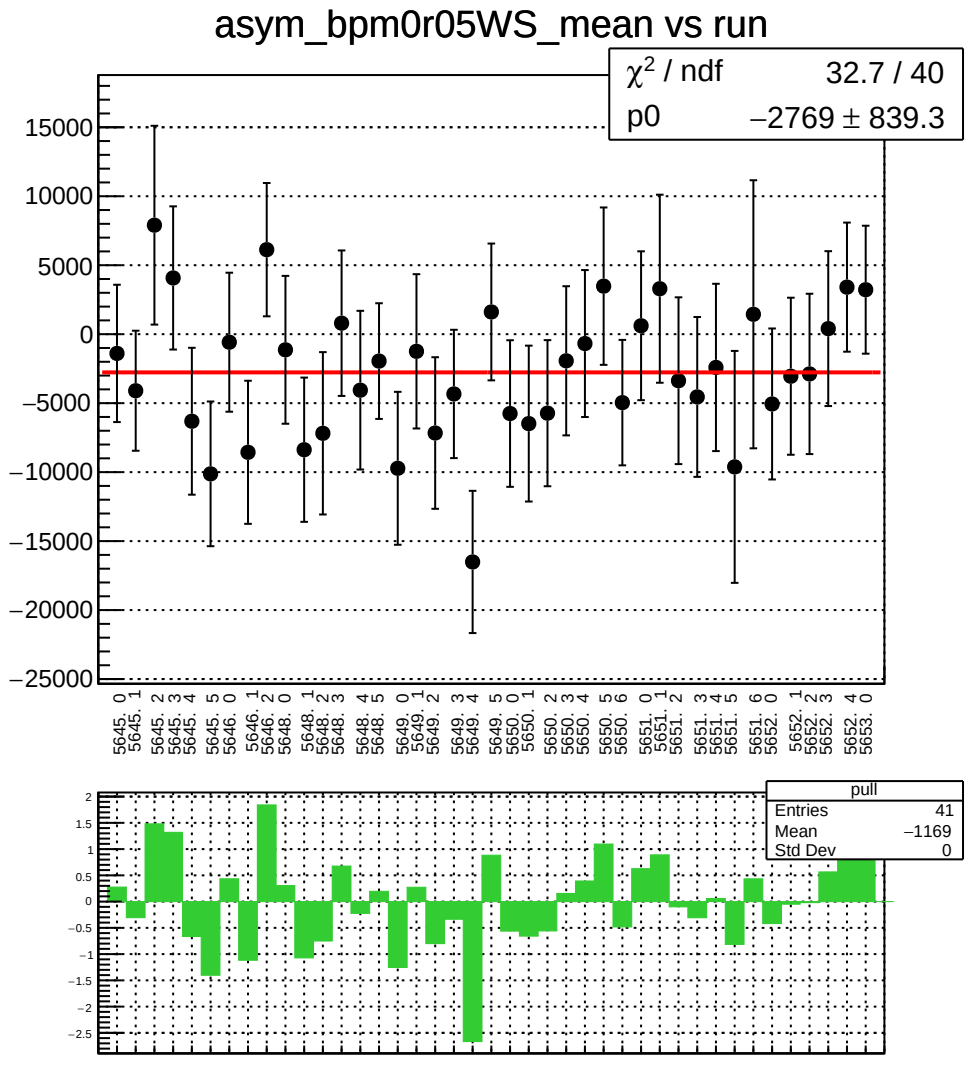

asym_bpm0l10WS_mean vs run
χ² / ndf 10.51 / 40
p0 −3340 ± 442.7
pull
Entries 41
Mean −203.5
Std Dev 0
pull1D
Entries 41
Mean 0.003634
Std Dev 0.5064

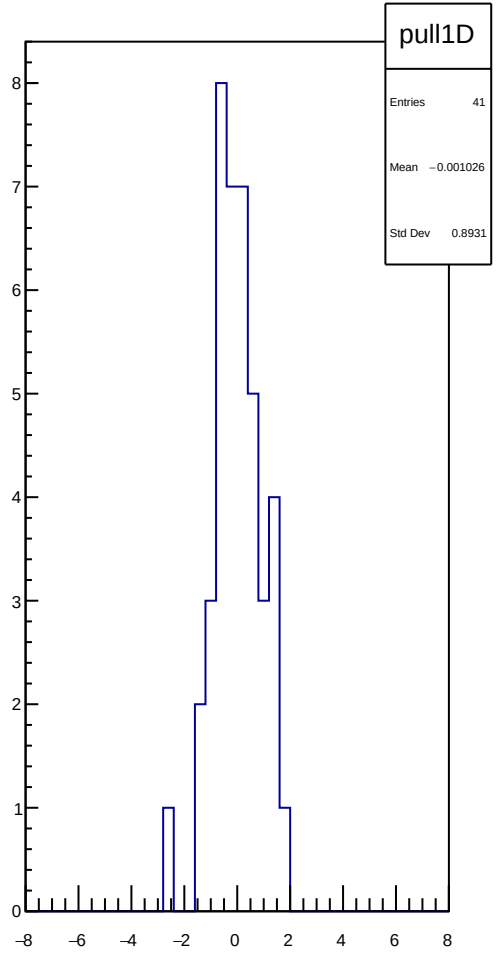

asym_bpm0l10WS_rms vs run
χ² / ndf 3.074e+04 / 40
p0 272.8 ± 0.313
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

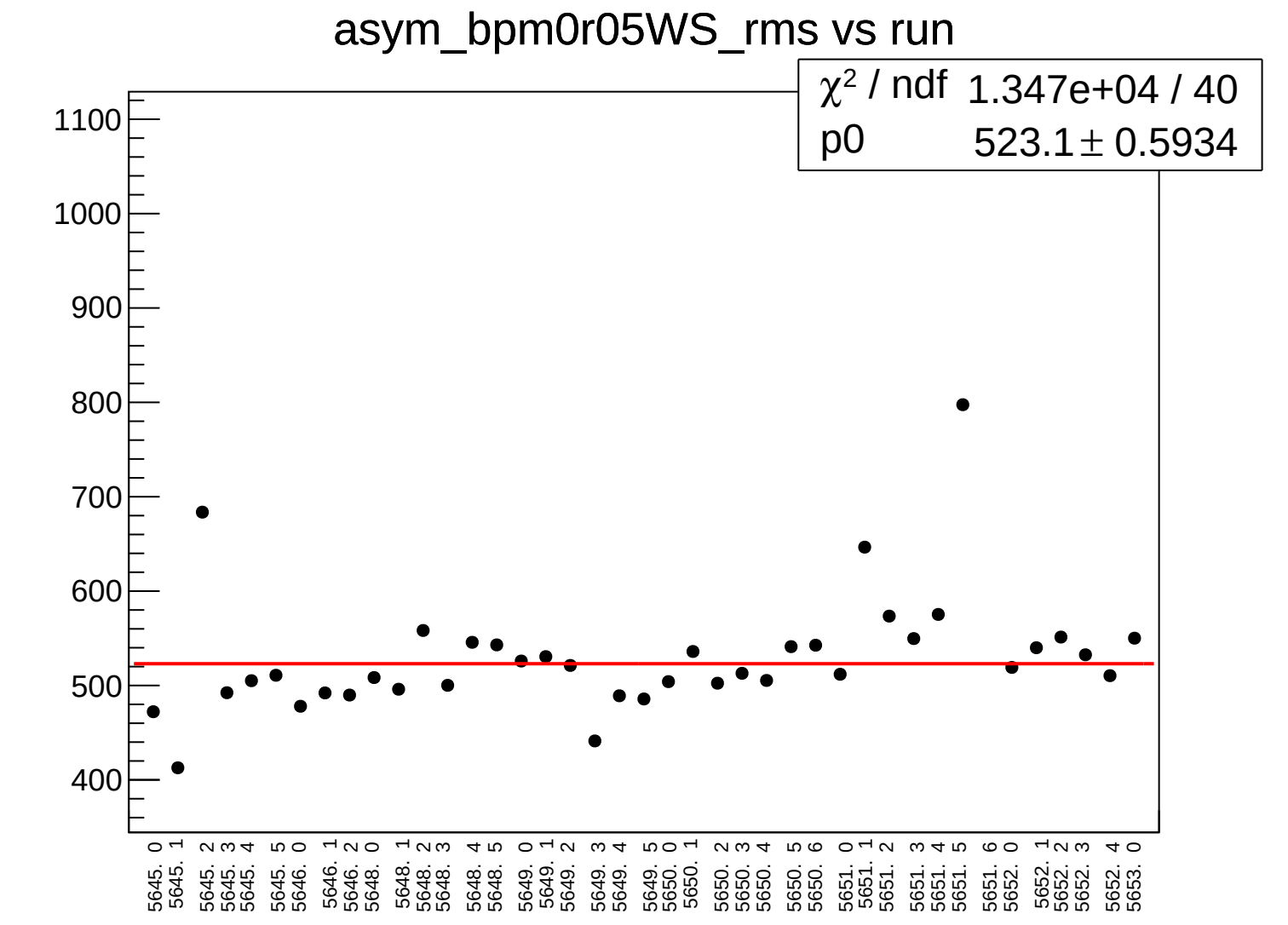

asym_bpm0r03WS_mean vs run
χ² / ndf 18 / 40
p0 −2693 ± 510.4
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −29.99
Std Dev 0
1
0.5
0
−0.5
−1

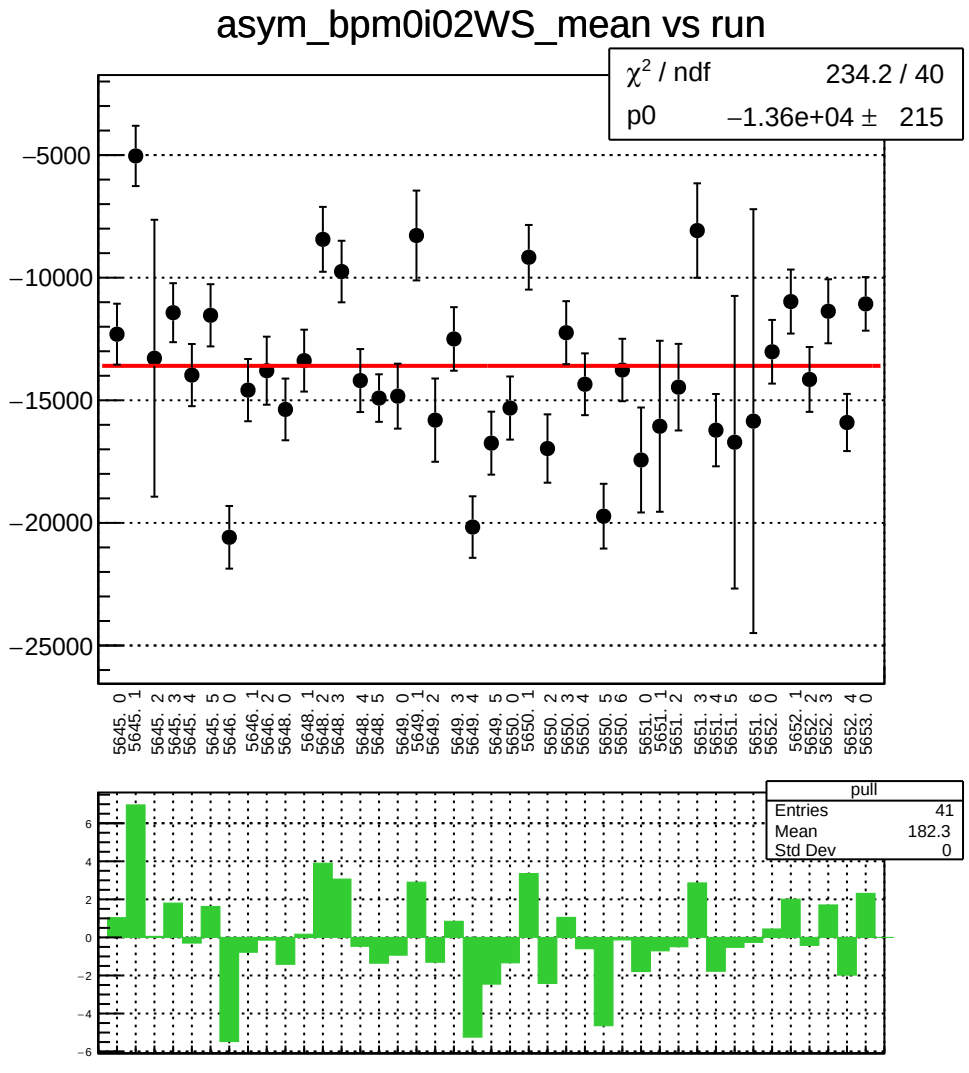

pull1D
Entries 41
Mean 0.01577
Std Dev 0.6625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

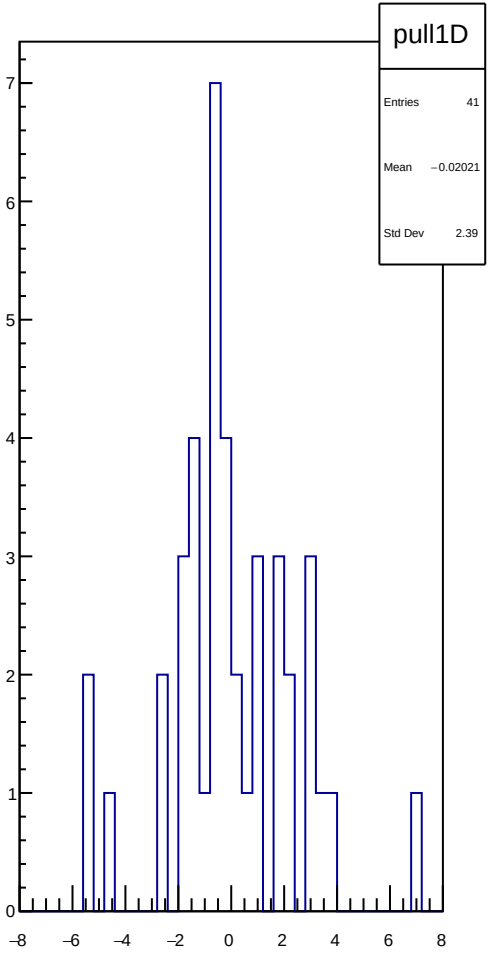

asym_bpm0r03WS_rms vs run
χ² / ndf 2.483e+04 / 40
p0 315.8 ± 0.3609
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

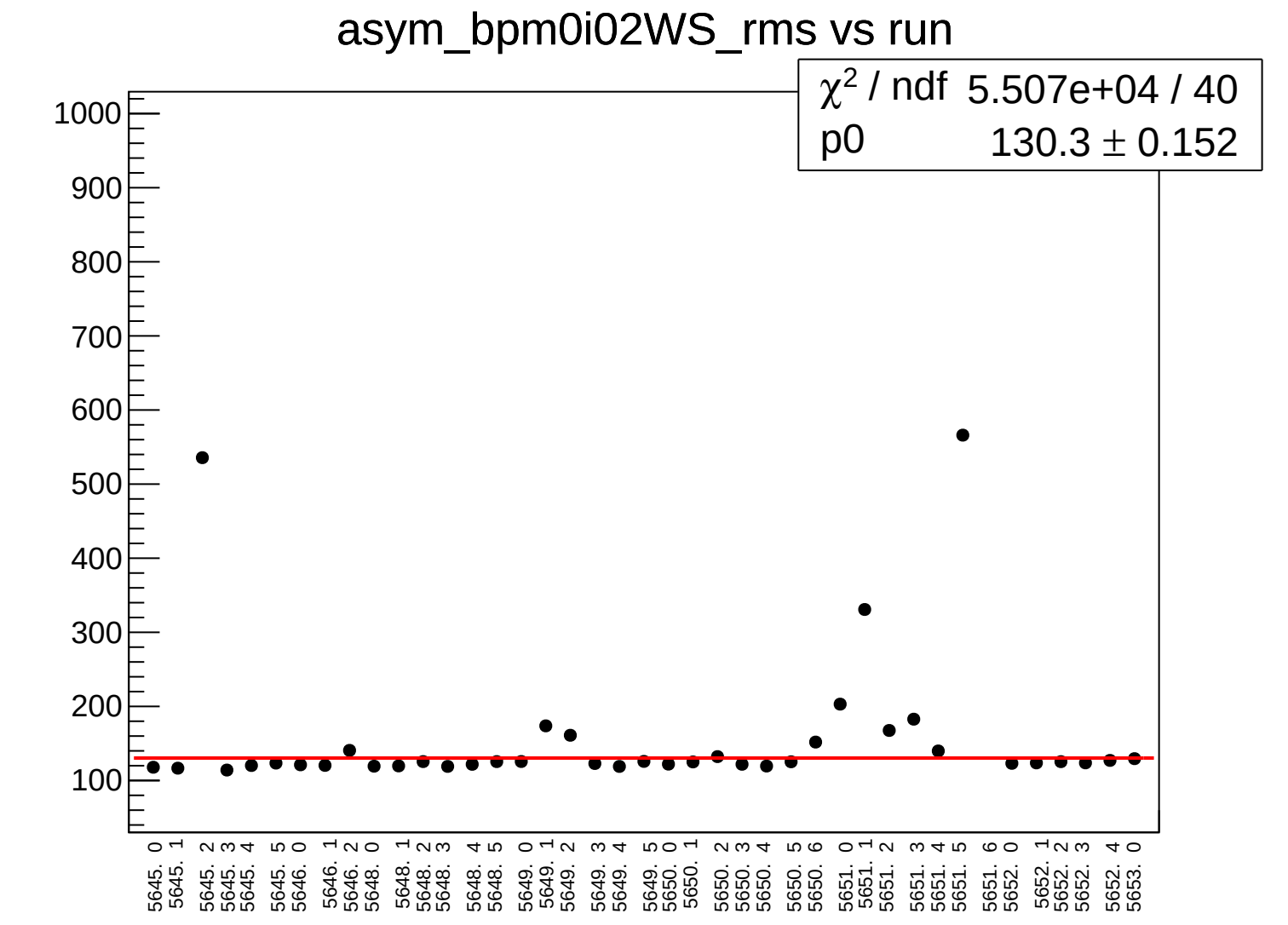

asym_bpm0r05WS_mean vs run
χ² / ndf 32.7 / 40
p0 −2769 ± 839.3
pull
Entries 41
Mean −1169
Std Dev 0

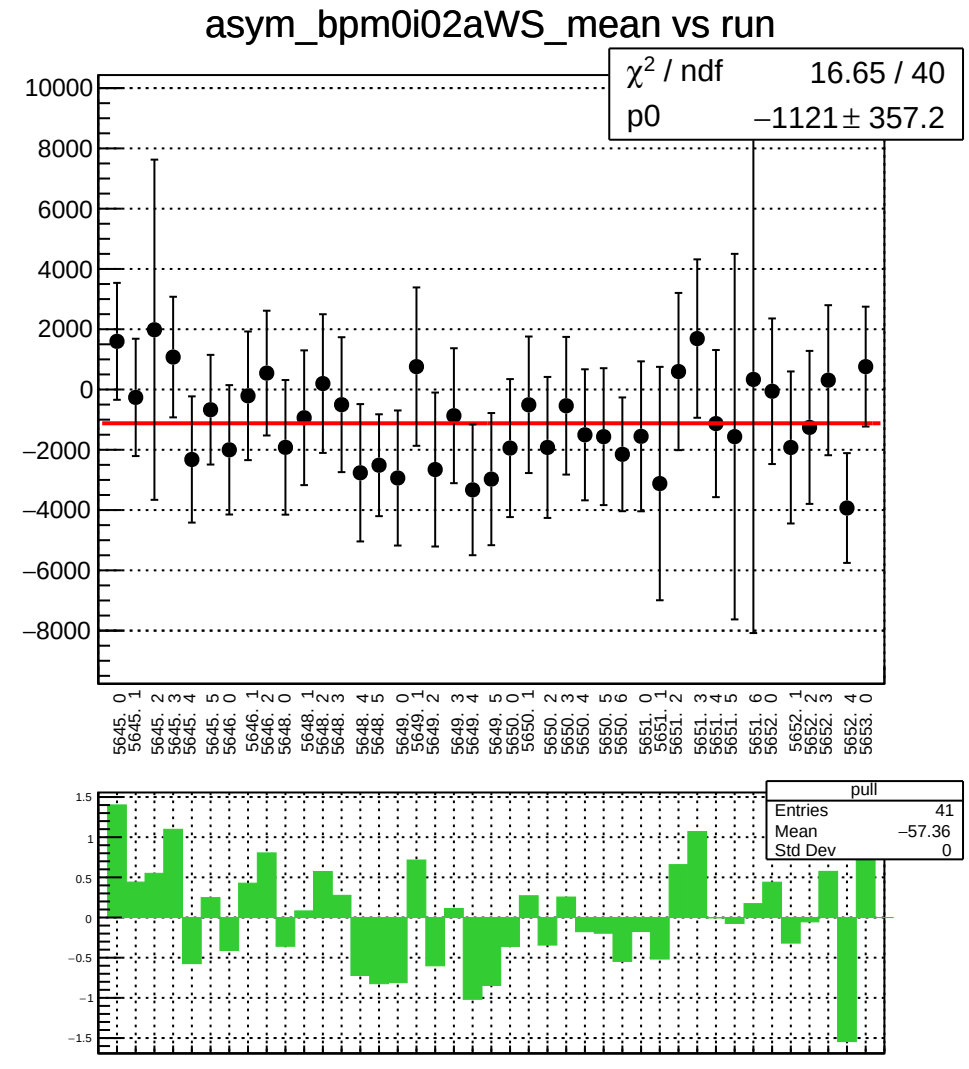

pull1D
Entries 41
Mean −0.001026
Std Dev 0.8931

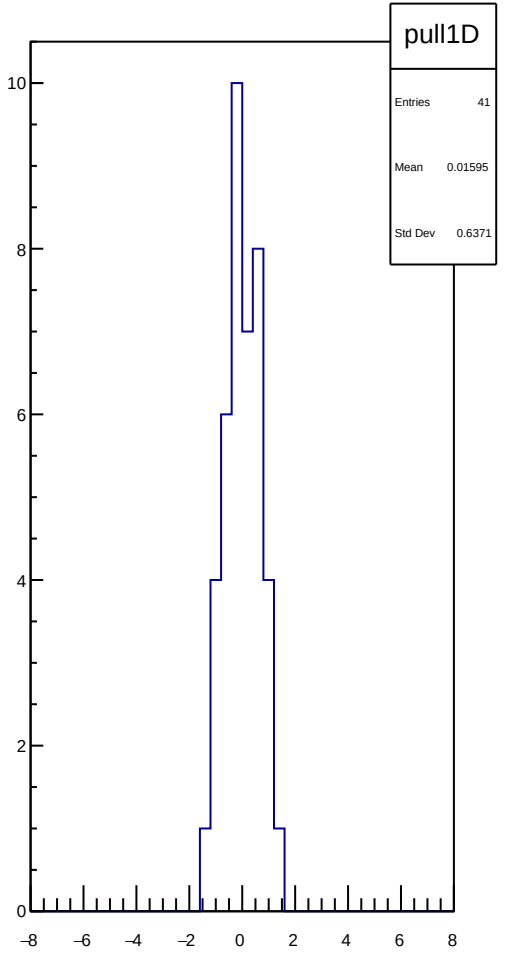

asym_bpm0r05WS_rms vs run
χ² / ndf 1.347e+04 / 40
p0 523.1 ± 0.5934
1100
1000
900
800
700
600
500
400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

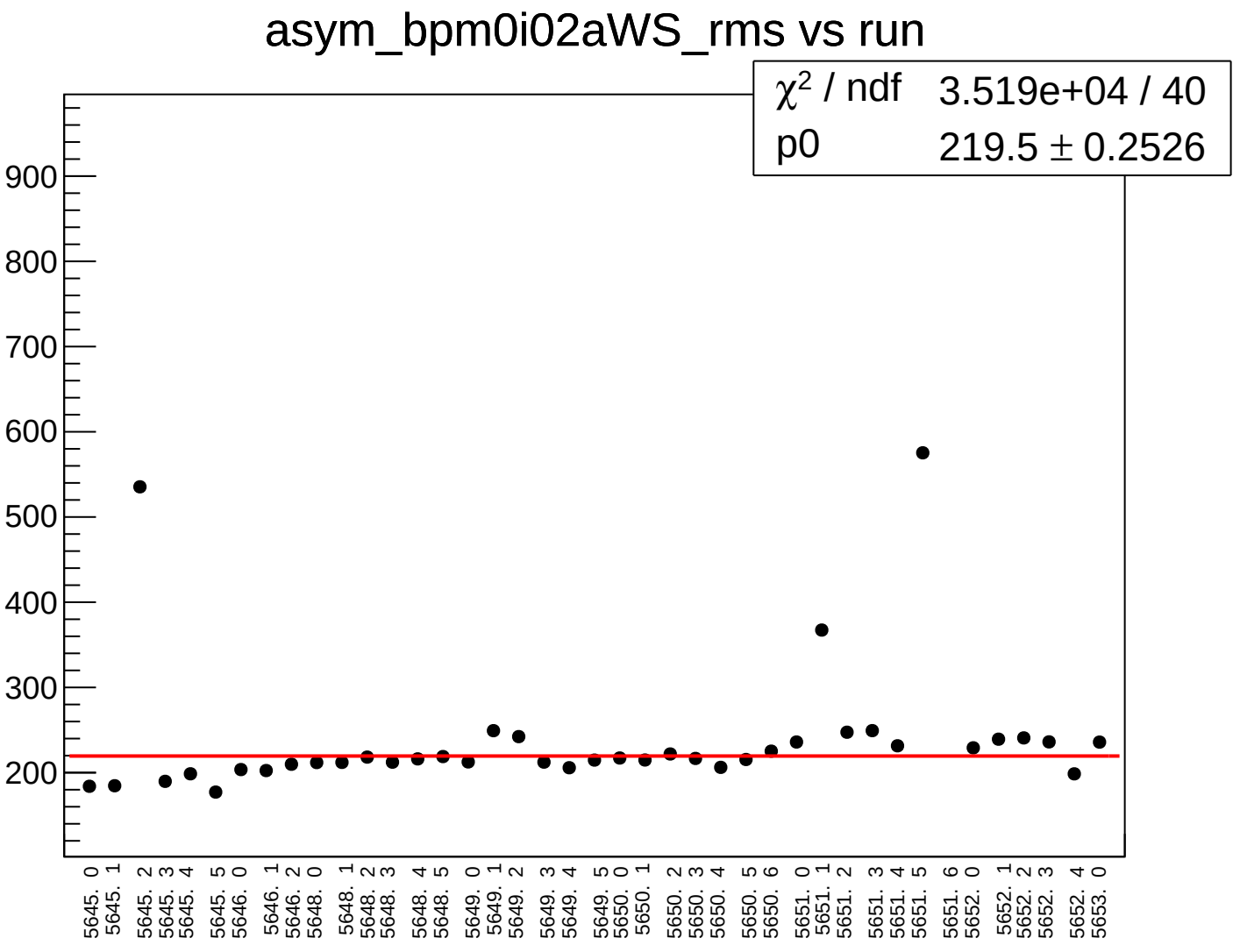

asym_bpm0i02WS_mean vs run
χ² / ndf 234.2 / 40
p0 −1.36e+04 ± 215
−5000
−10000
−15000
−20000
−25000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 182.3
Std Dev 0
6
4
2
0
−2
−4
−6

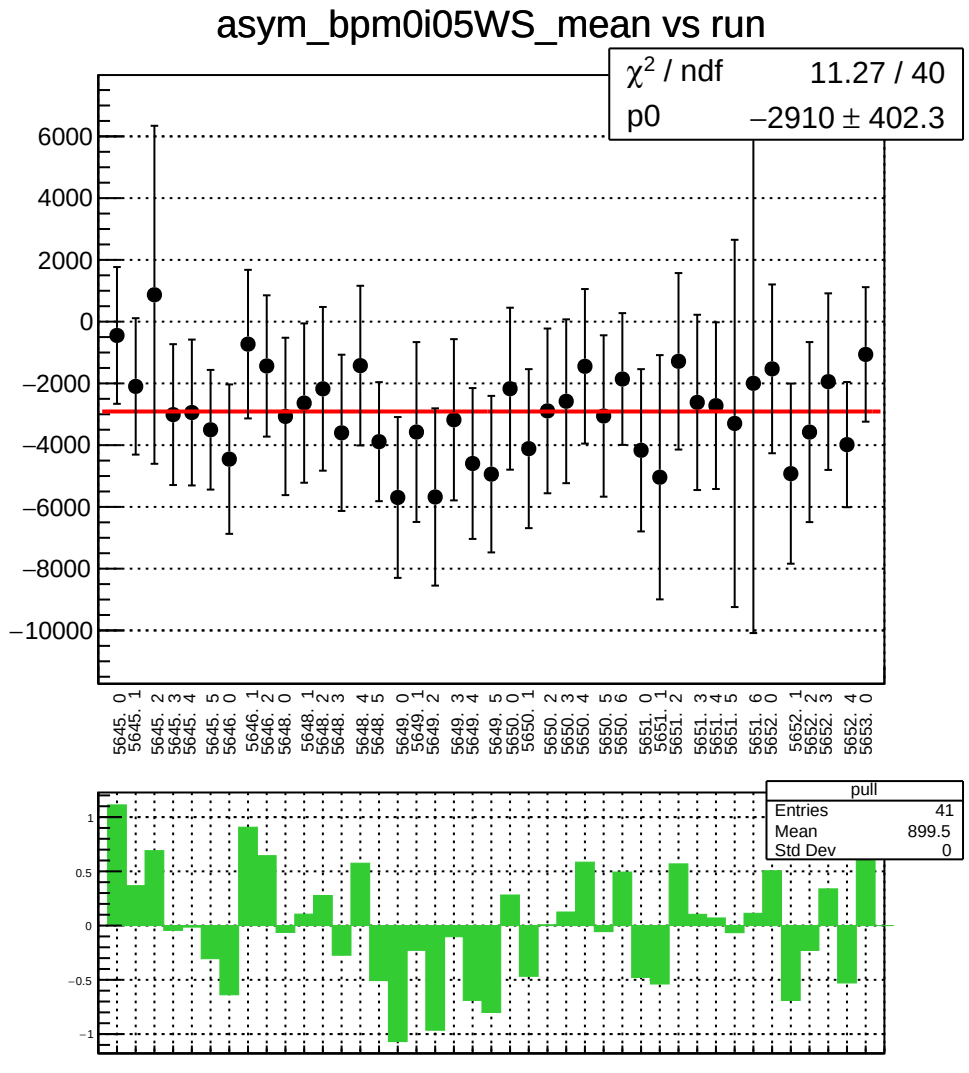

pull1D
Entries 41
Mean −0.02021
Std Dev 2.39
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

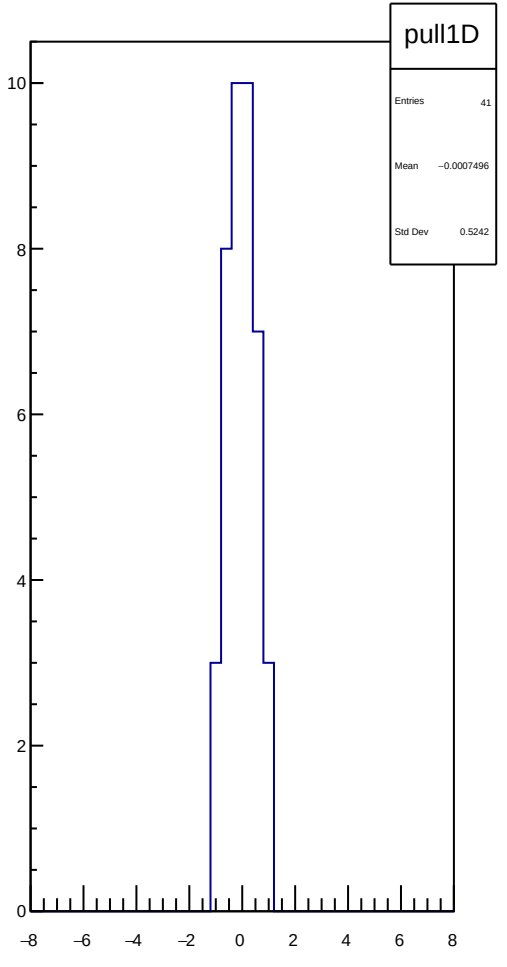

asym_bpm0i02WS_rms vs run
χ^2 / ndf 5.507e+04 / 40
p0 130.3 ± 0.152
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

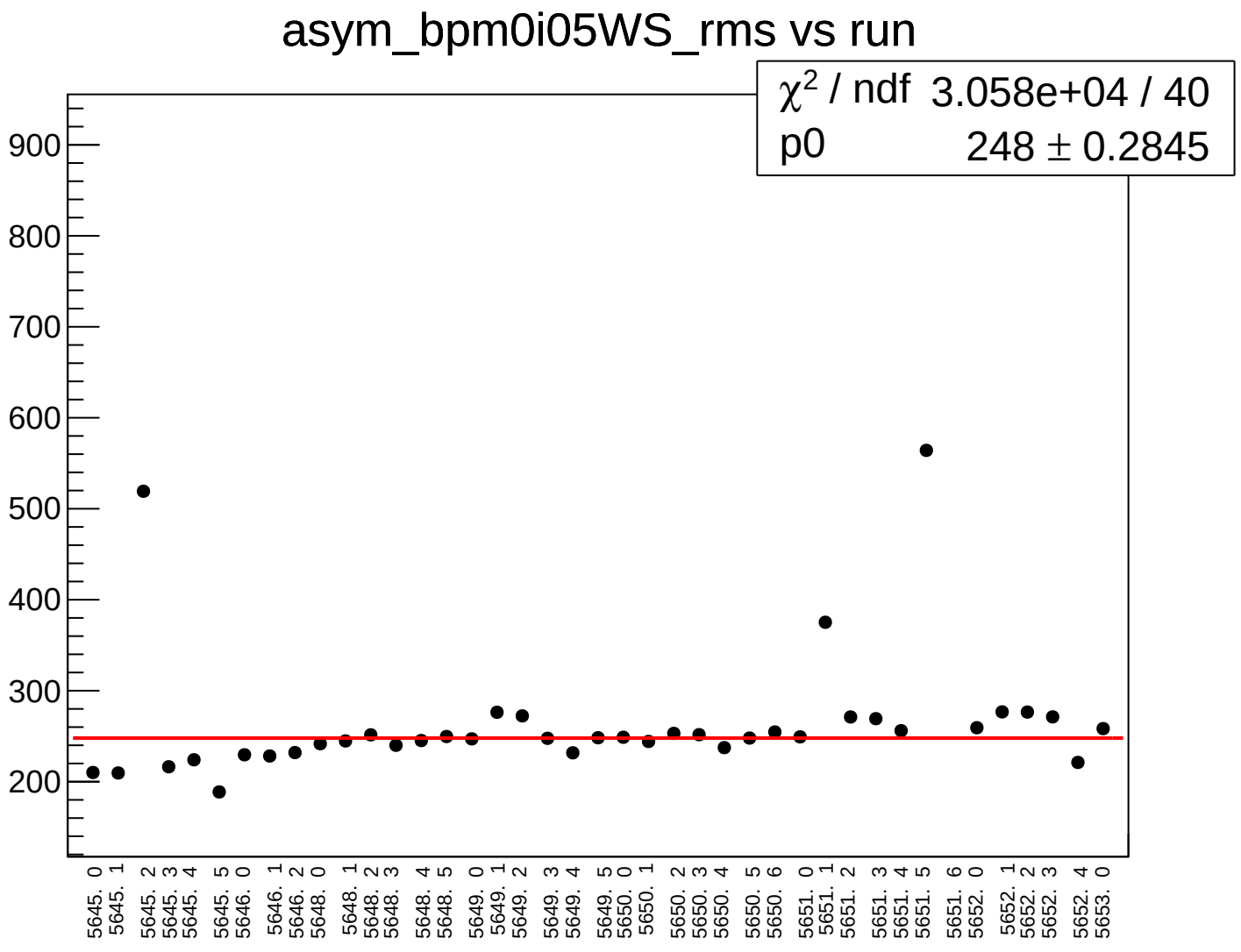

asym_bpm0i02aWS_mean vs run
χ² / ndf 16.65 / 40
p0 −1121 ± 357.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −57.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

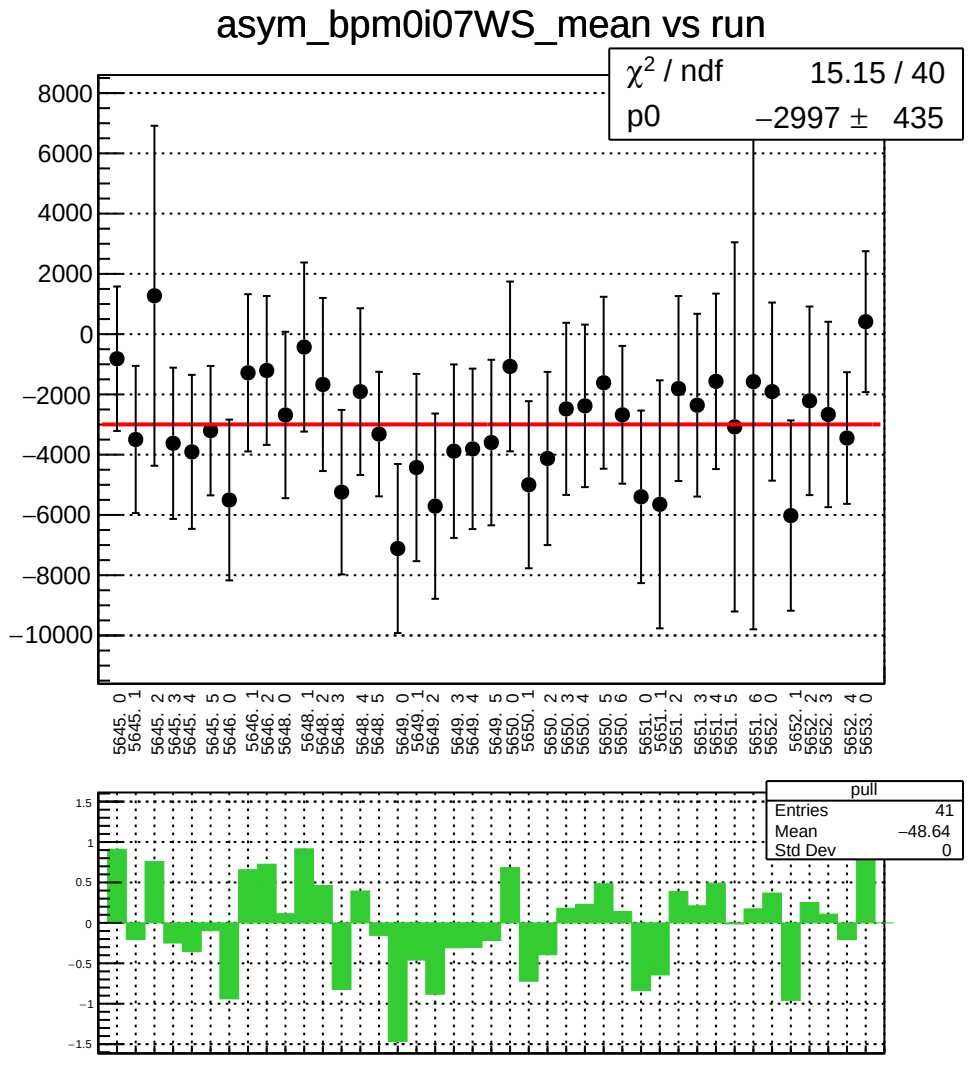

pull1D
Entries 41
Mean 0.01595
Std Dev 0.6371
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

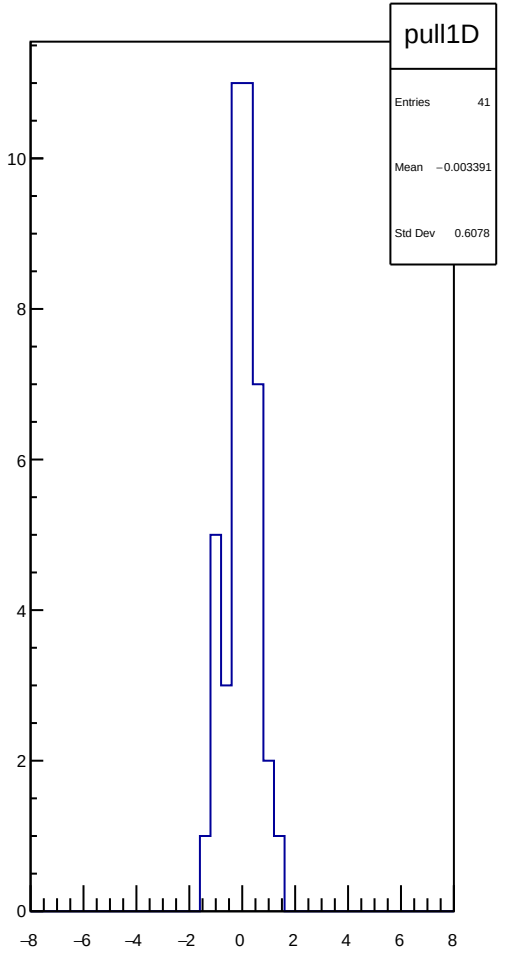

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.519e+04 / 40
p0 219.5 ± 0.2526
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

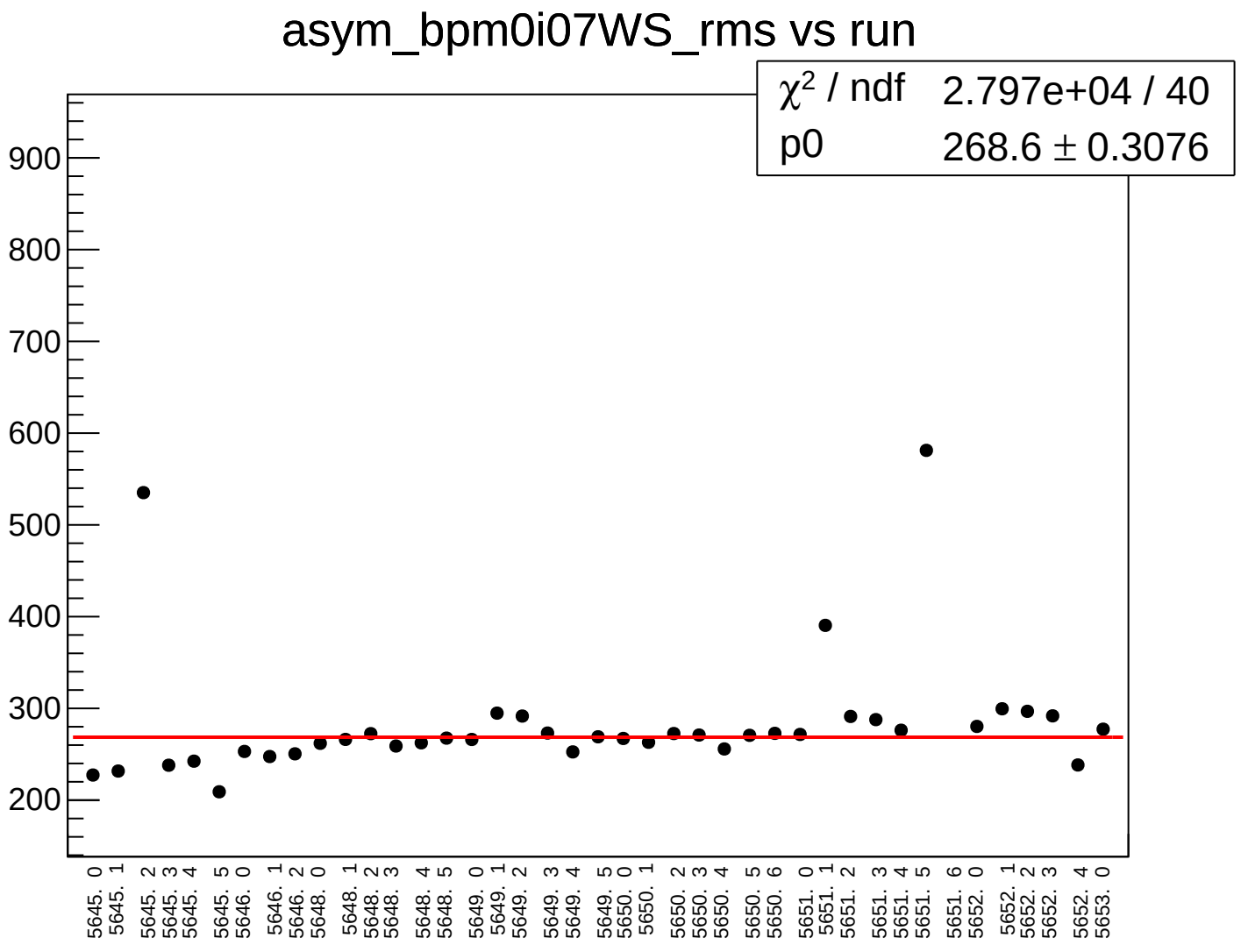

asym_bpm0i05WS_mean vs run
χ² / ndf 11.27 / 40
p0 −2910 ± 402.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 899.5
Std Dev 0
1
0.5
0
−0.5
−1

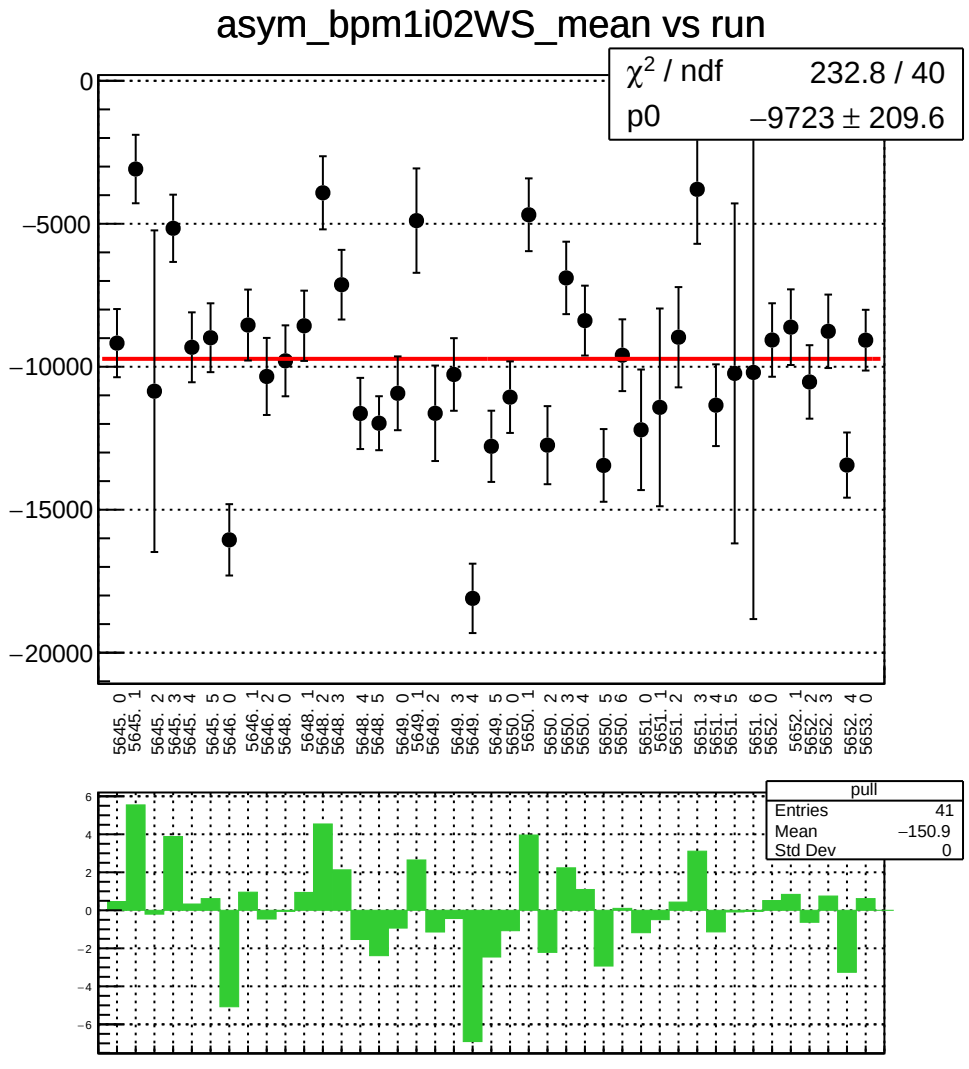

pull1D
Entries 41
Mean −0.0007496
Std Dev 0.5242
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

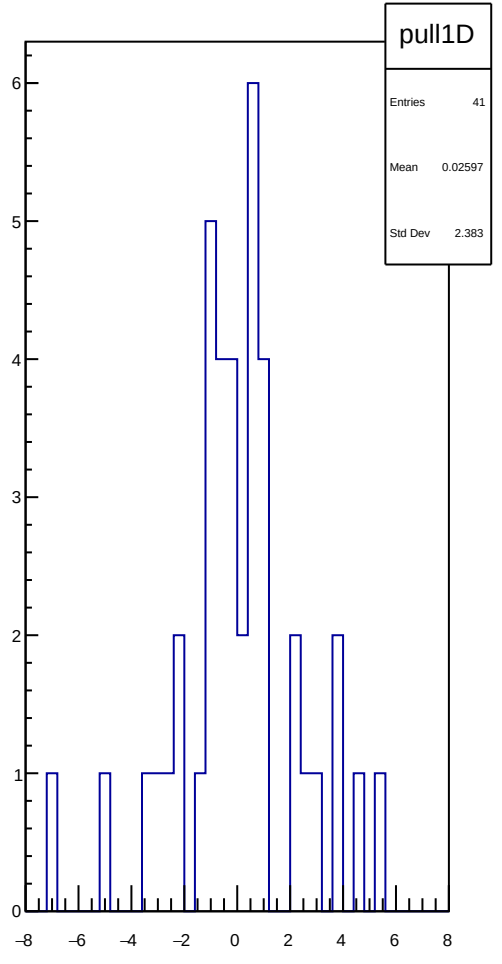

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.058e+04 / 40
p0 248 ± 0.2845
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

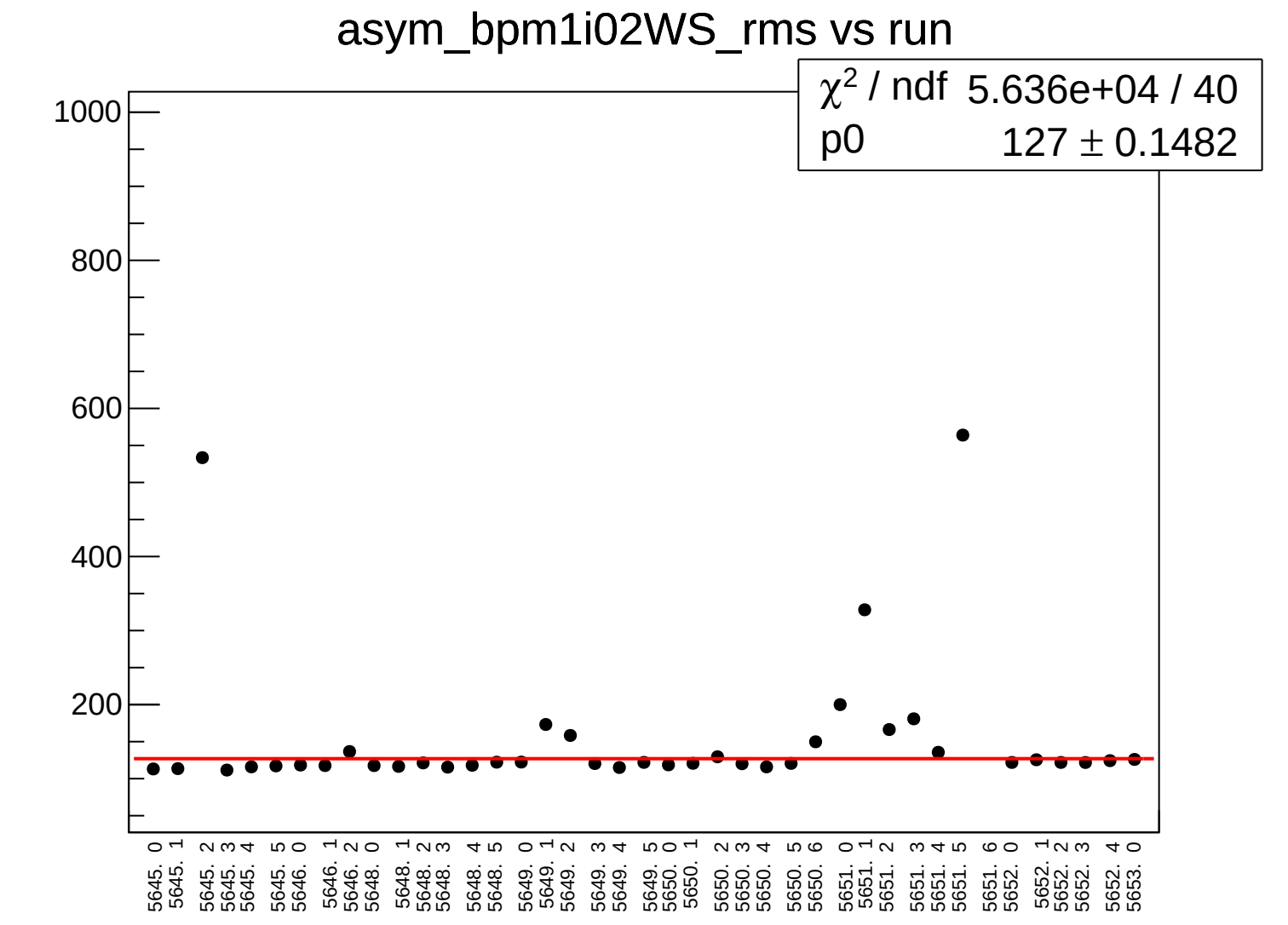

asym_bpm0i07WS_mean vs run
χ² / ndf 15.15 / 40
p0 −2997 ± 435
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −48.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

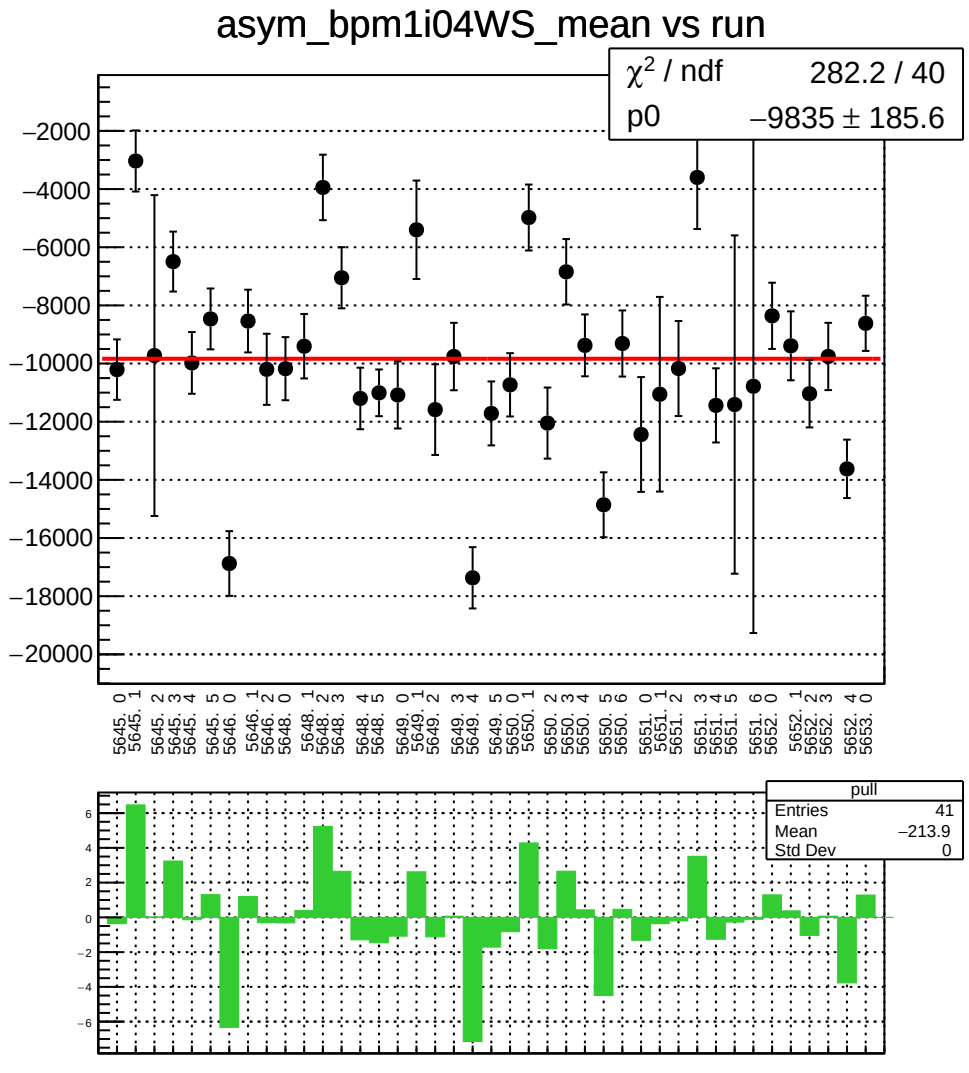

pull1D
Entries 41
Mean −0.003391
Std Dev 0.6078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

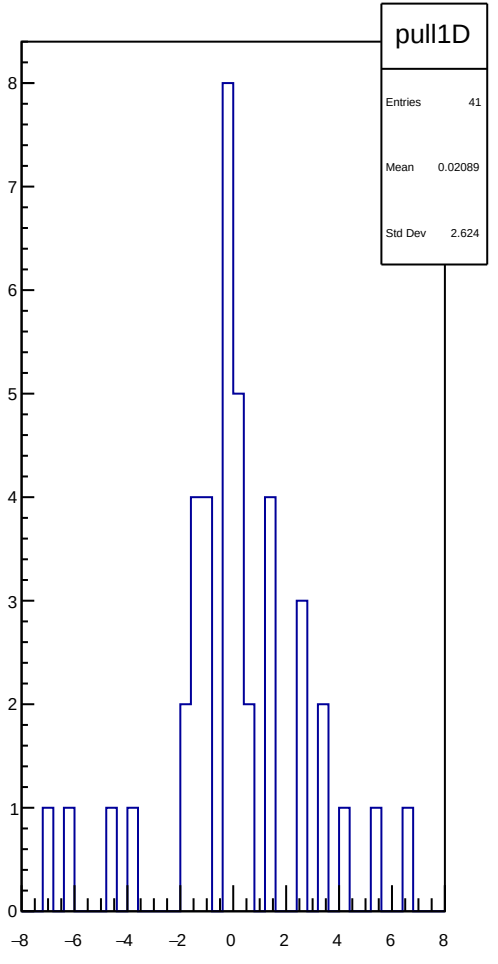

asym_bpm0i07WS_rms vs run
χ² / ndf 2.797e+04 / 40
p0 268.6 ± 0.3076
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

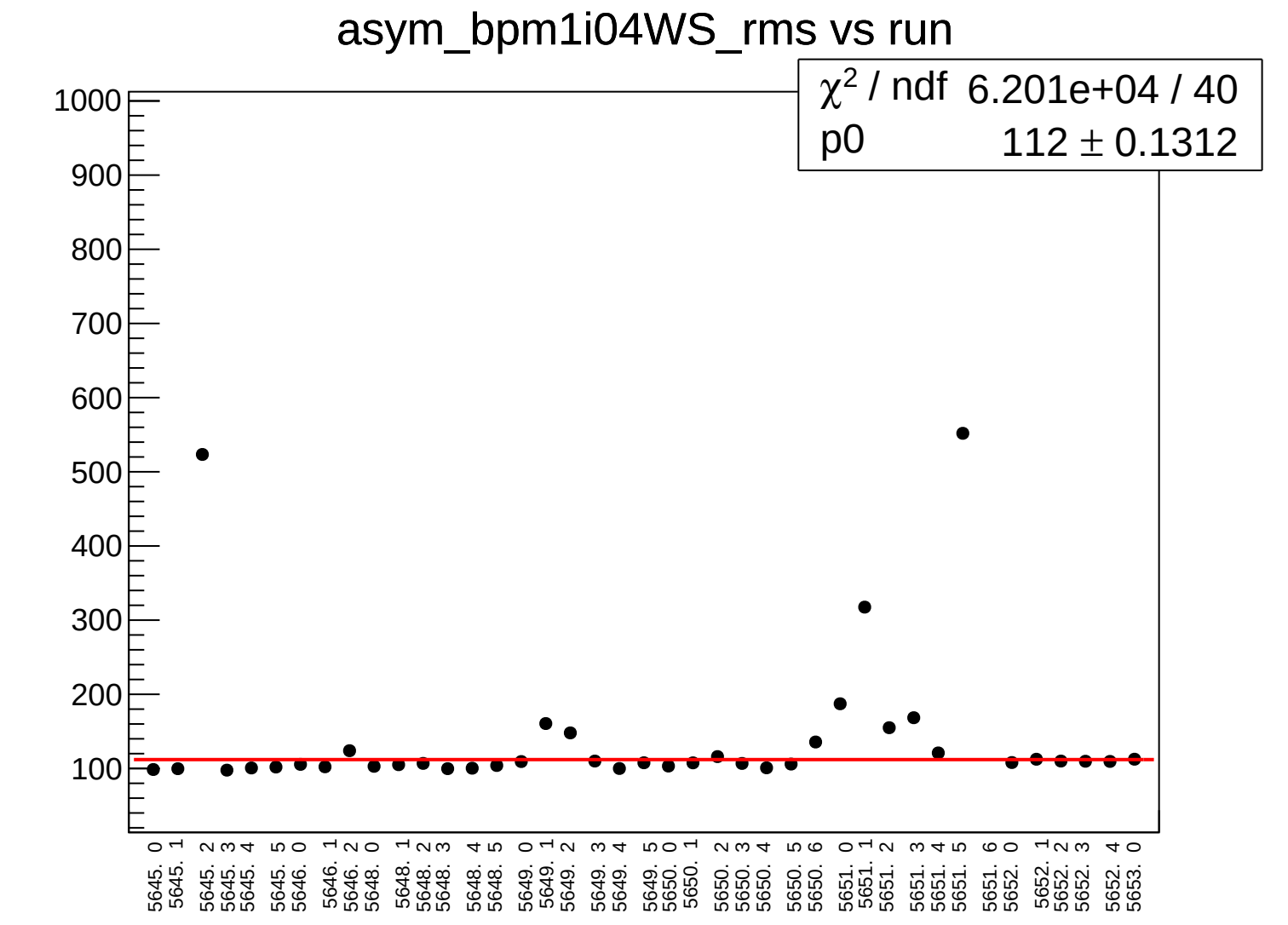

asym_bpm1i02WS_mean vs run
χ² / ndf 232.8 / 40
p0 −9723 ± 209.6
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −150.9
Std Dev 0
6
4
2
0
−2
−4
−6

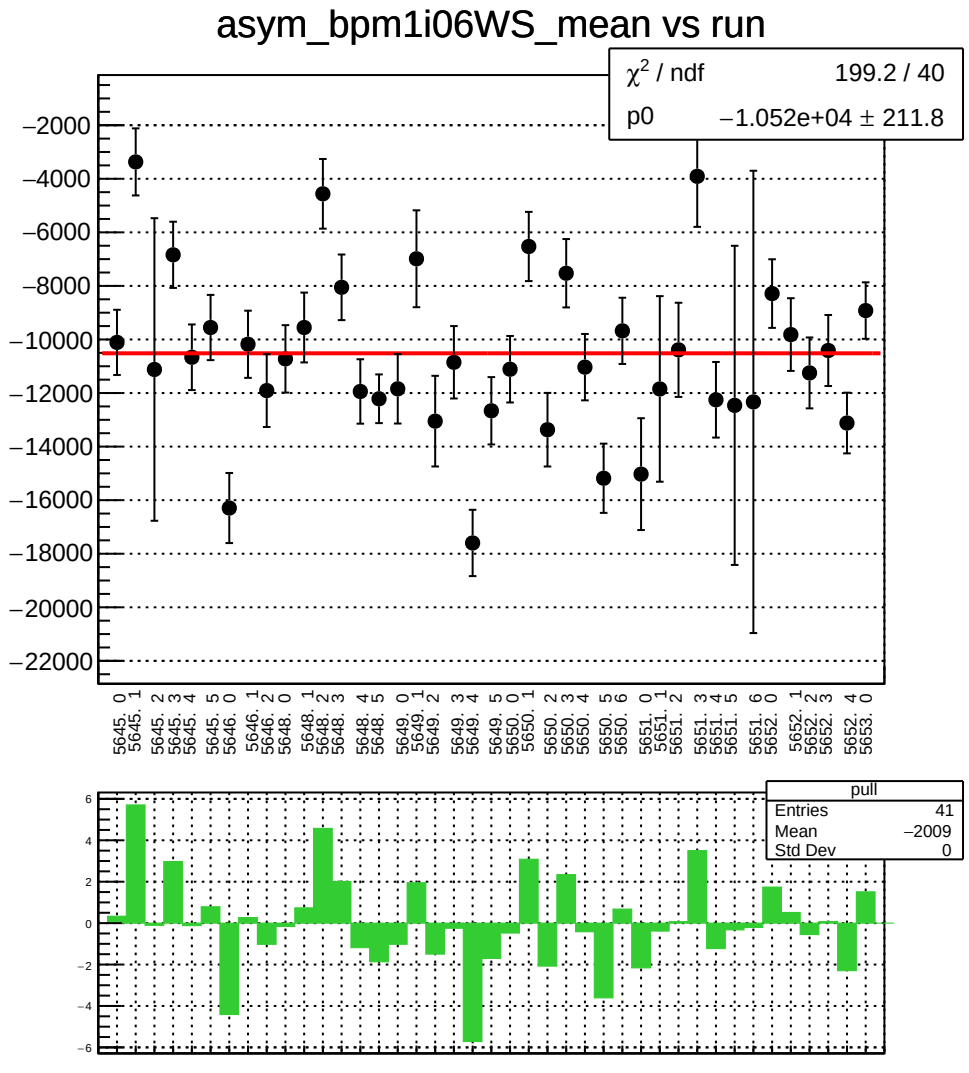

pull1D
Entries 41
Mean 0.02597
Std Dev 2.383
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

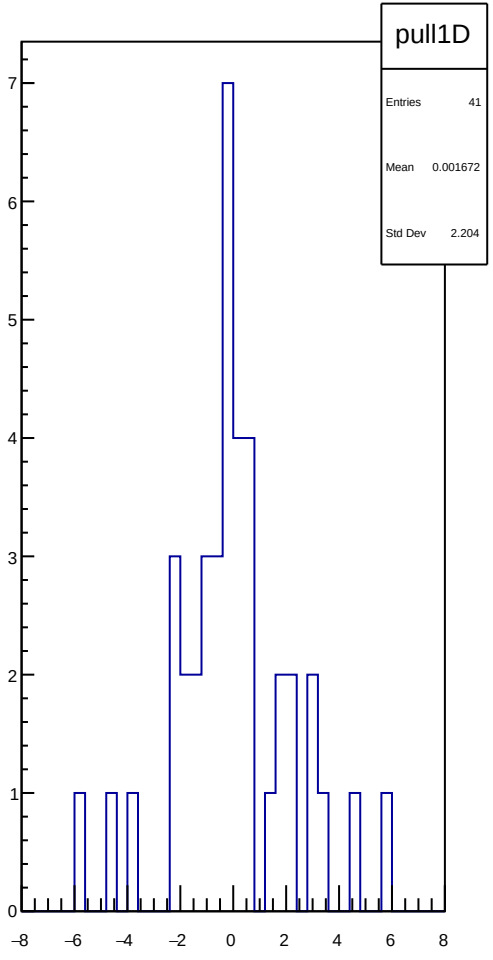

asym_bpm1i02WS_rms vs run
χ² / ndf 5.636e+04 / 40
p0 127 ± 0.1482
1000
800
600
400
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

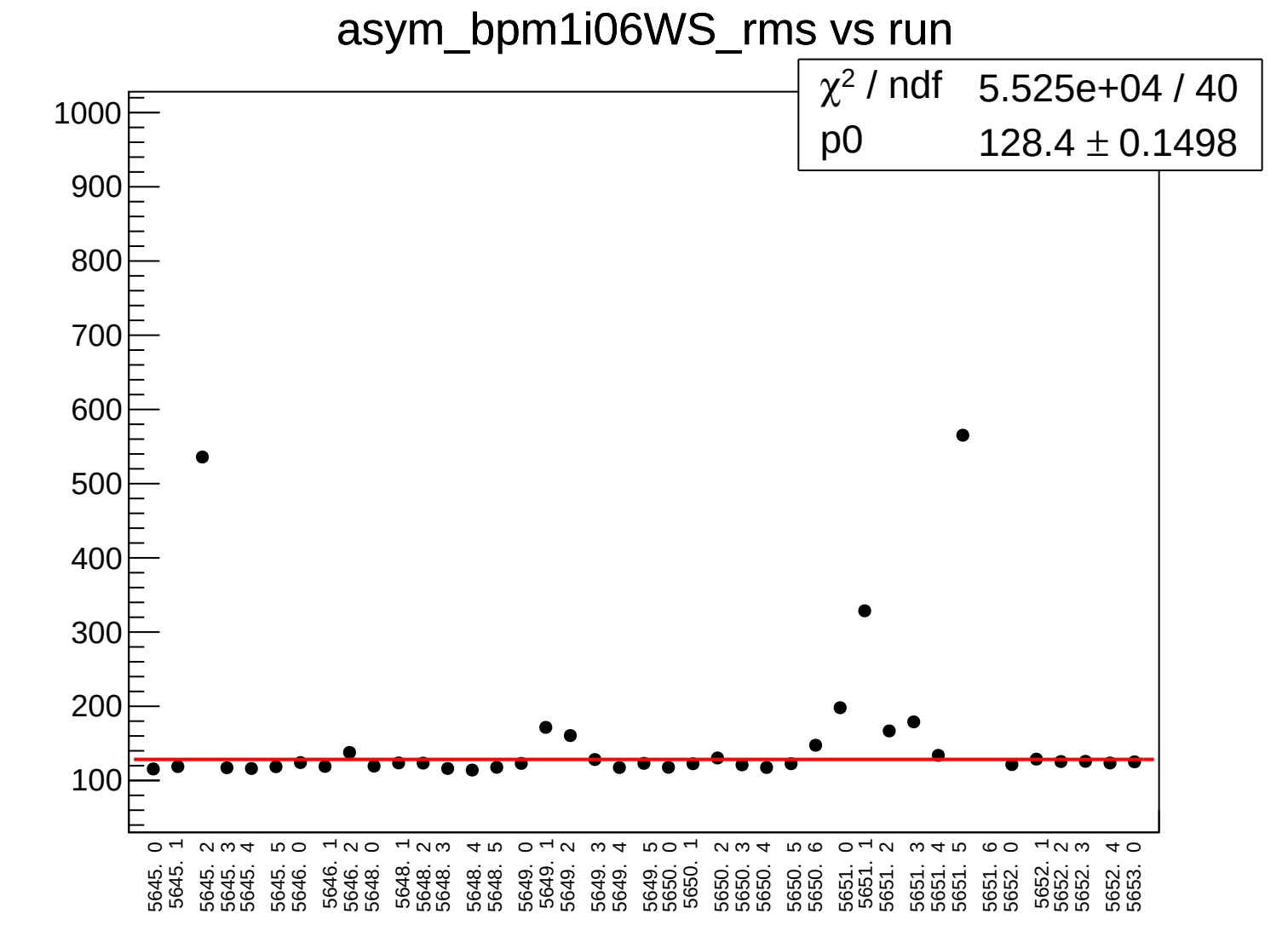

asym_bpm1i04WS_mean vs run
χ² / ndf 282.2 / 40
p0 −9835 ± 185.6
pull
Entries 41
Mean −213.9
Std Dev 0

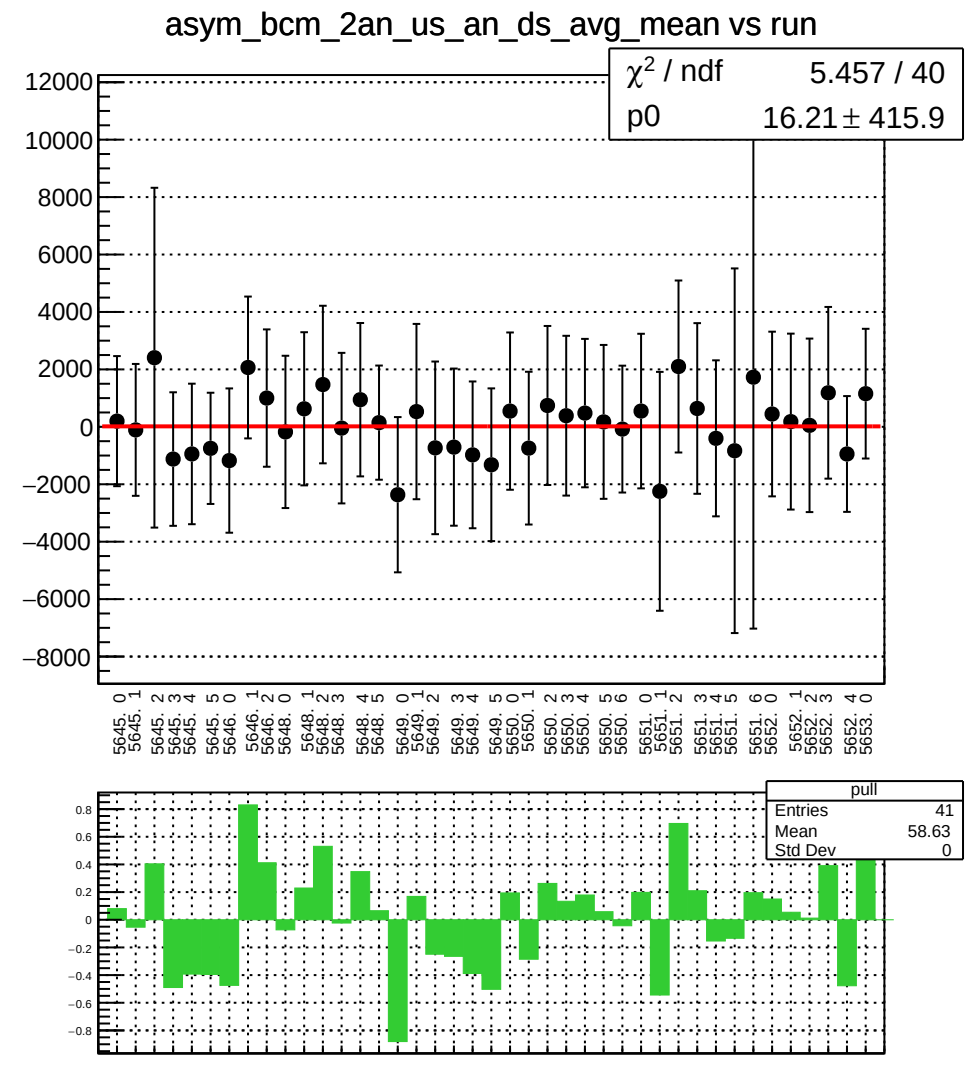

pull1D
Entries 41
Mean 0.02089
Std Dev 2.624

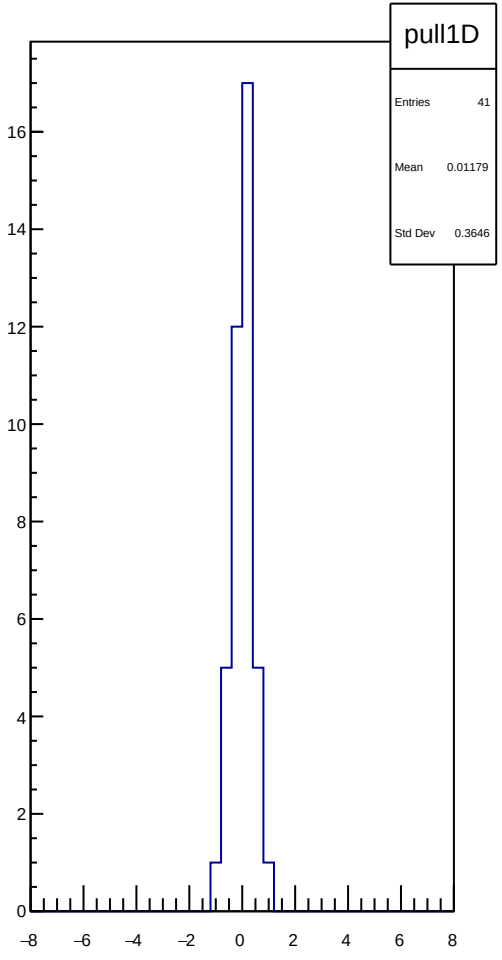

asym_bpm1i04WS_rms vs run
χ² / ndf 6.201e+04 / 40
p0 112 ± 0.1312
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

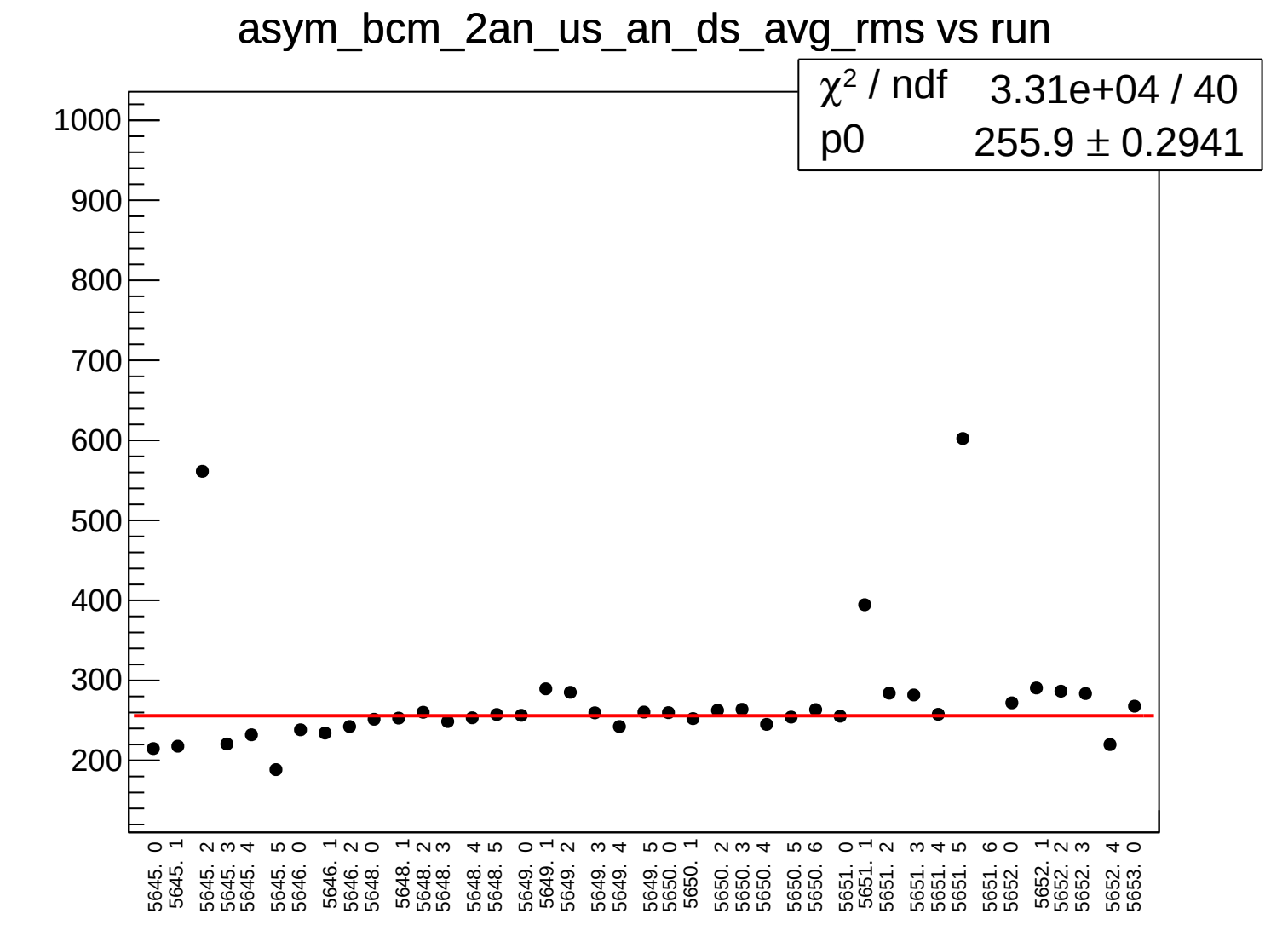

asym_bpm1i06WS_mean vs run
χ² / ndf 199.2 / 40
p0 −1.052e+04 ± 211.8
pull
Entries 41
Mean −2009
Std Dev 0

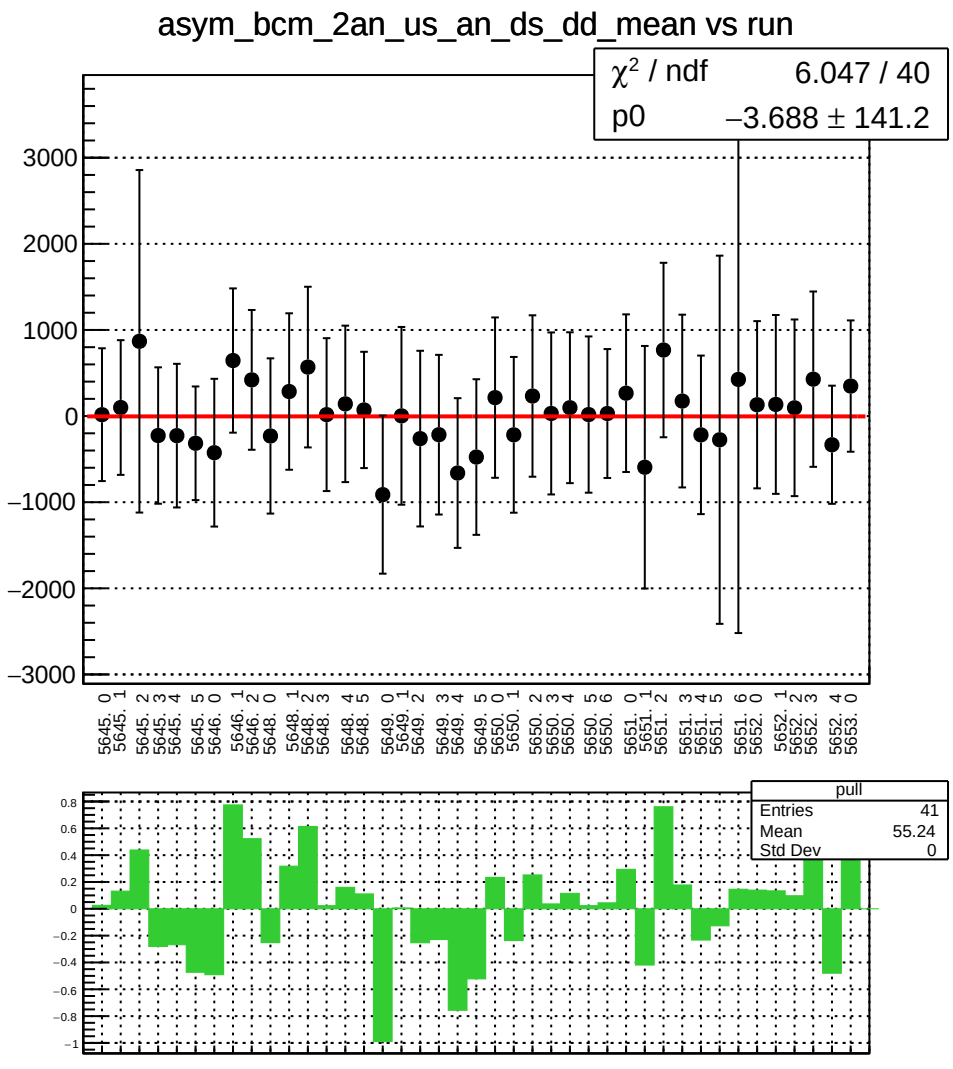

pull1D
Entries 41
Mean 0.001672
Std Dev 2.204

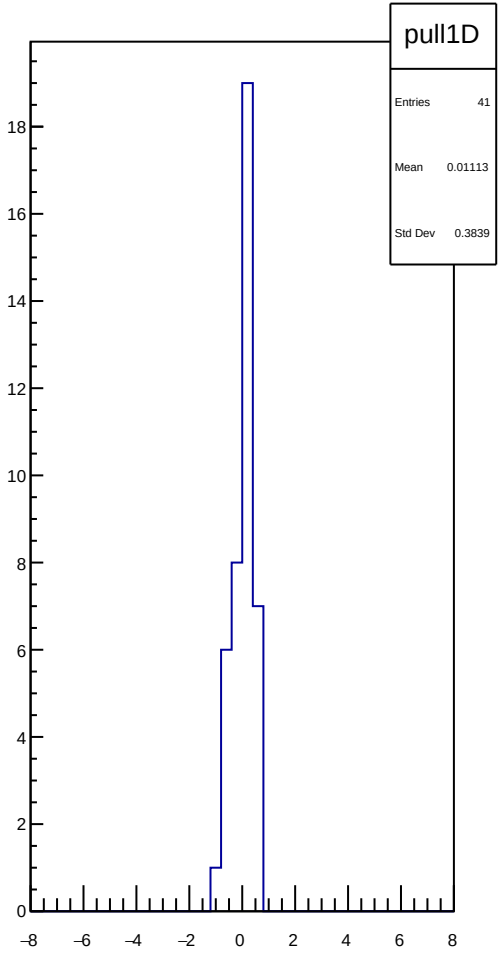

asym_bpm1i06WS_rms vs run
χ² / ndf 5.525e+04 / 40
p0 128.4 ± 0.1498
1000
900
800
700
600
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

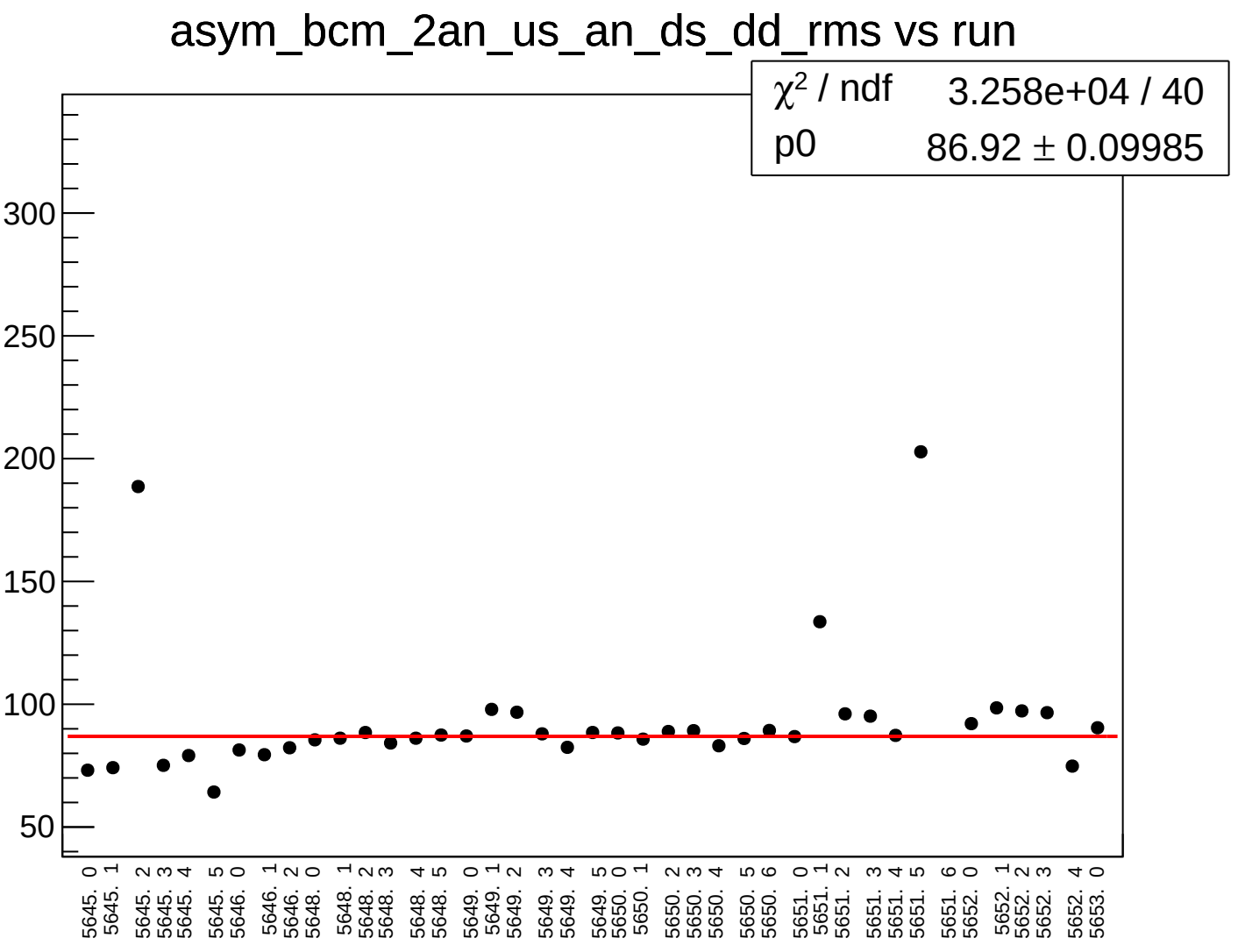

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 5.457 / 40
p0 16.21 ± 415.9
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 58.63
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

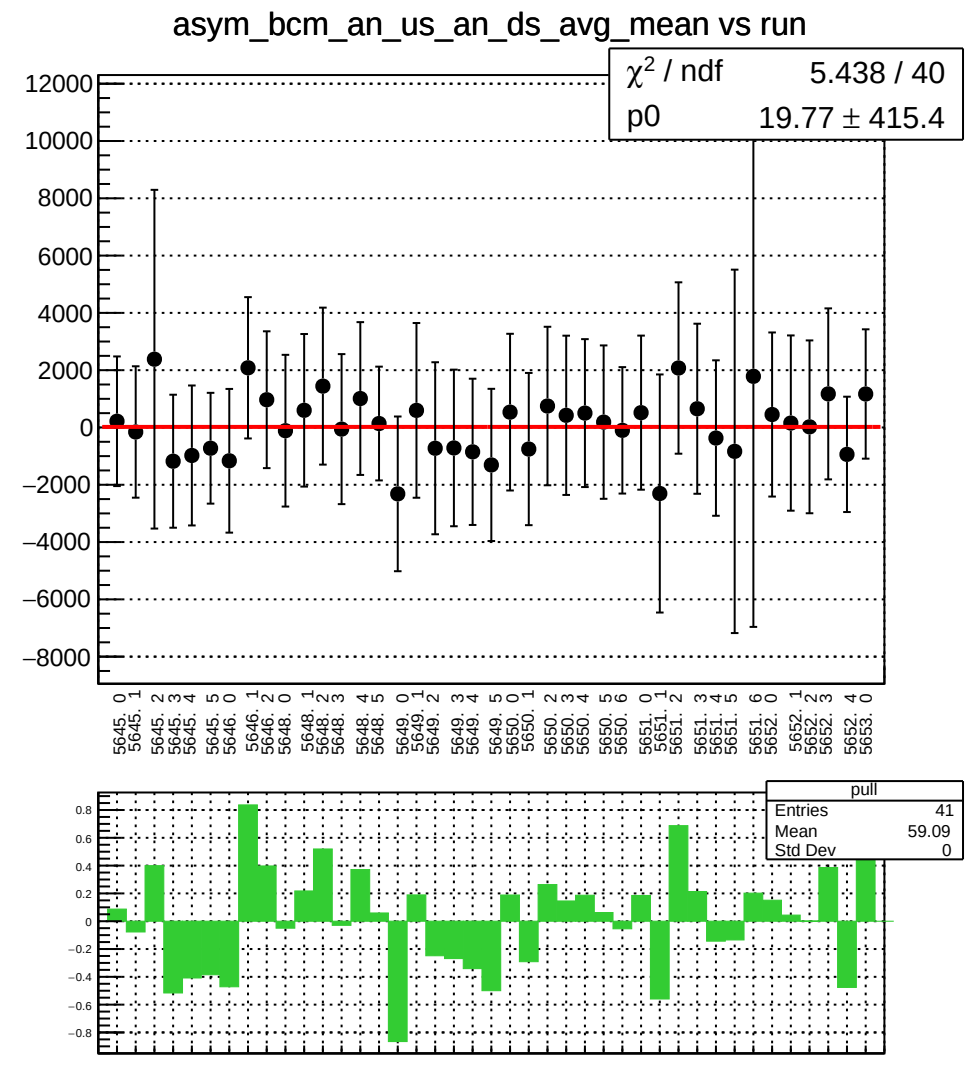

pull1D
Entries 41
Mean 0.01179
Std Dev 0.3646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

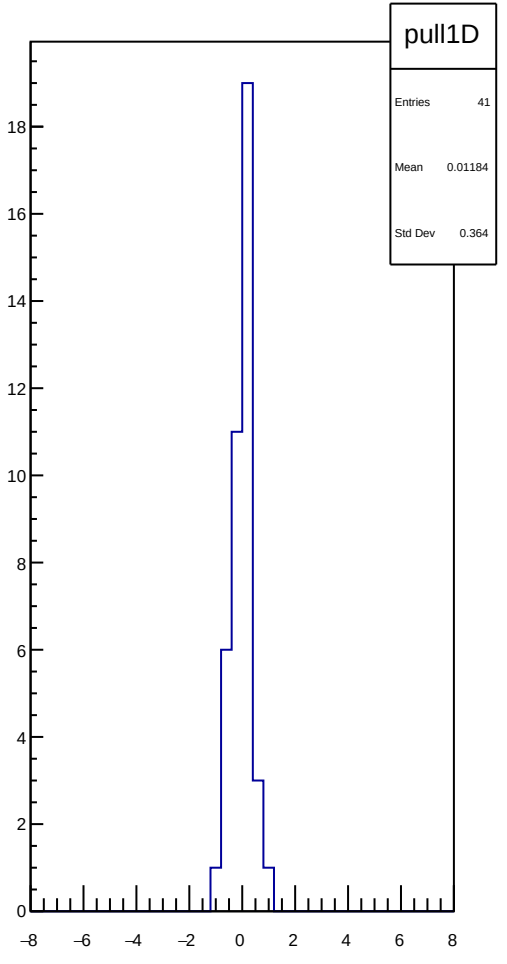

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.31e+04 / 40
p0 255.9 ± 0.2941
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

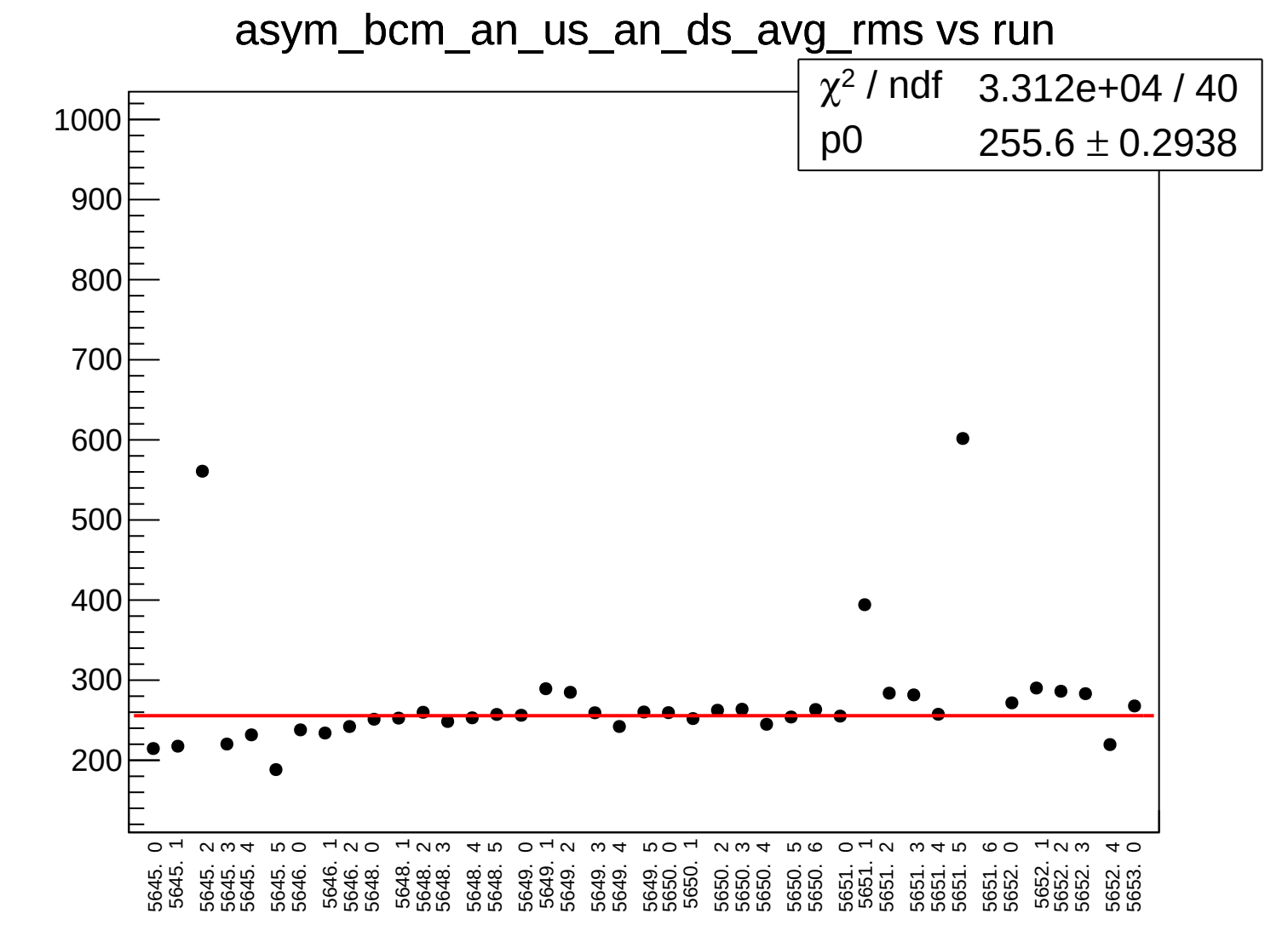

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 6.047 / 40
p0 −3.688 ± 141.2
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 55.24
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

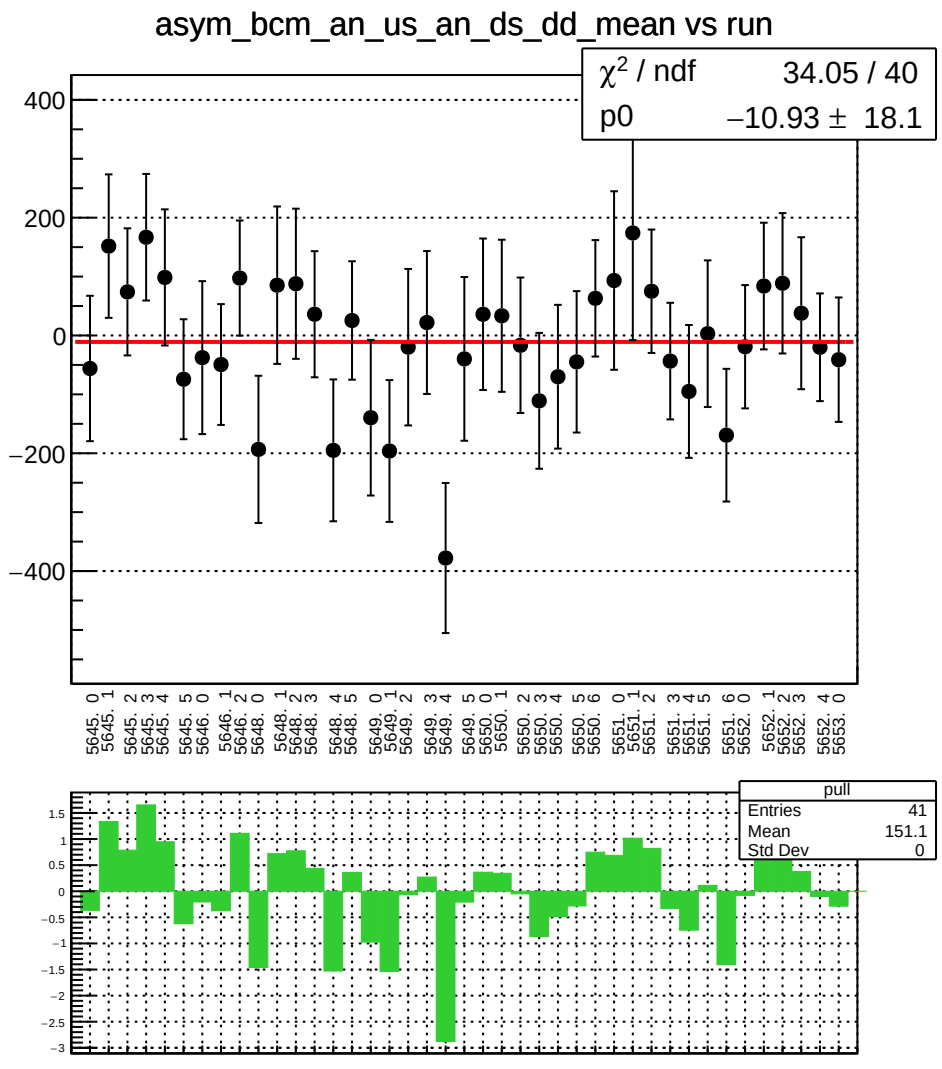

pull1D
Entries 41
Mean 0.01113
Std Dev 0.3839
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

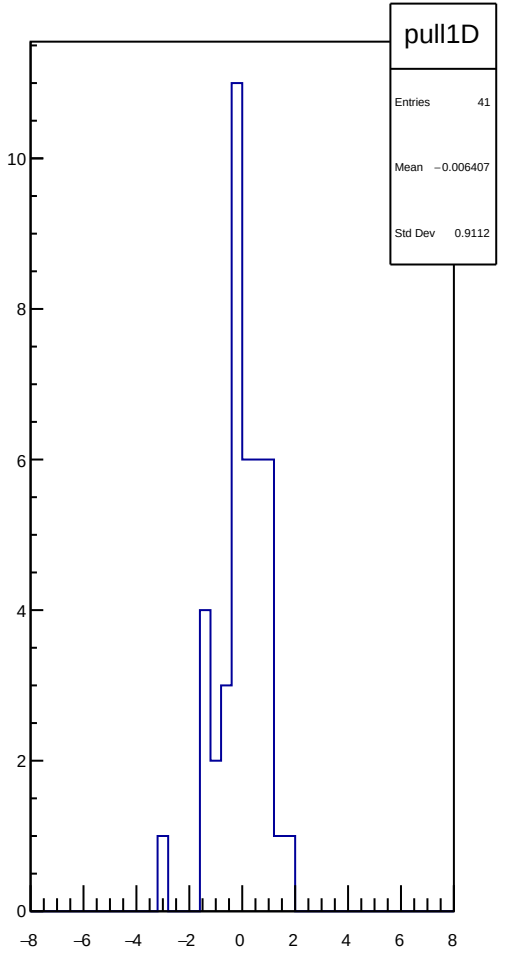

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.258e+04 / 40
p0 86.92 ± 0.09985
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

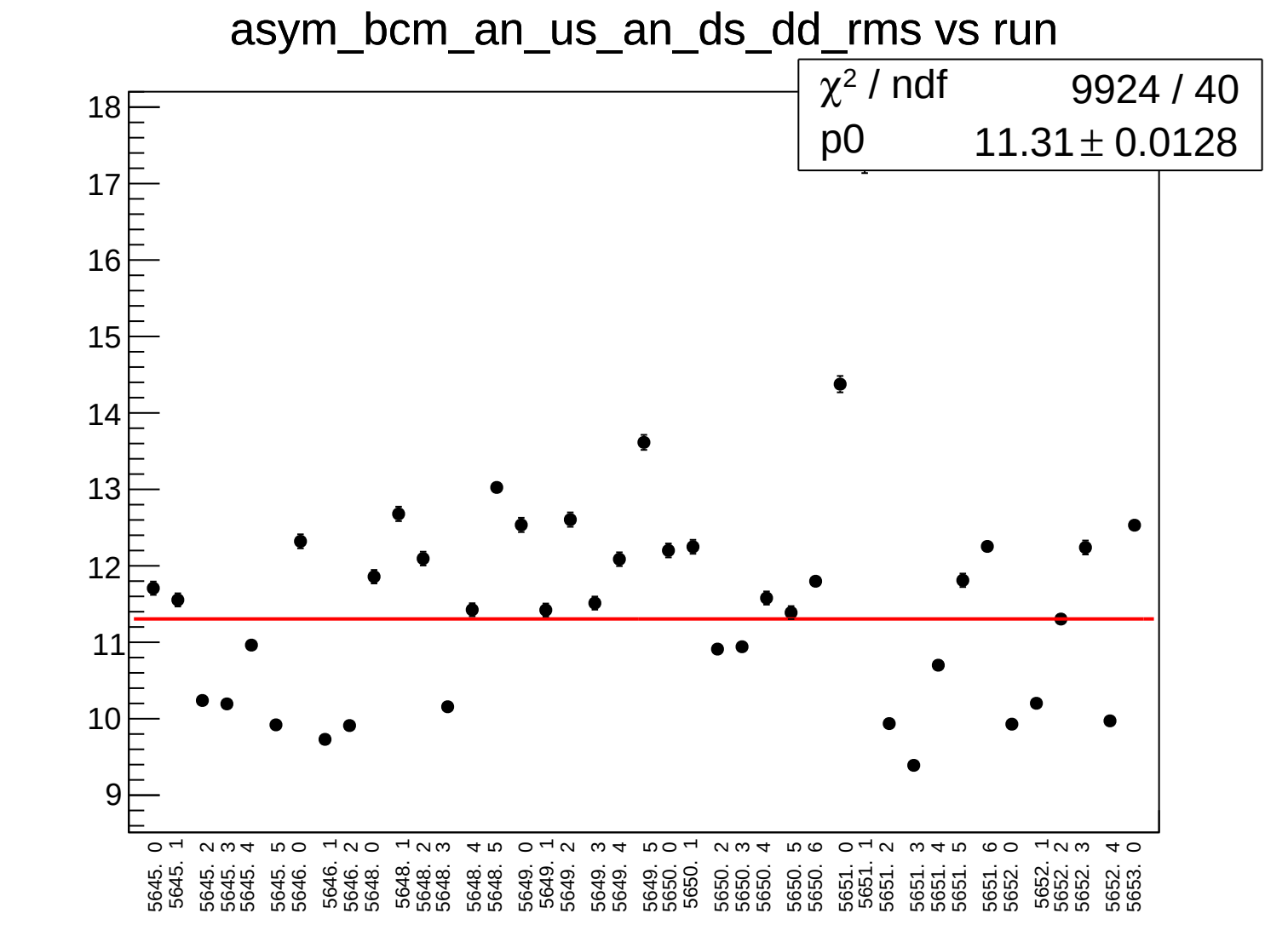

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 5.438 / 40
p0 19.77 ± 415.4
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 59.09
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

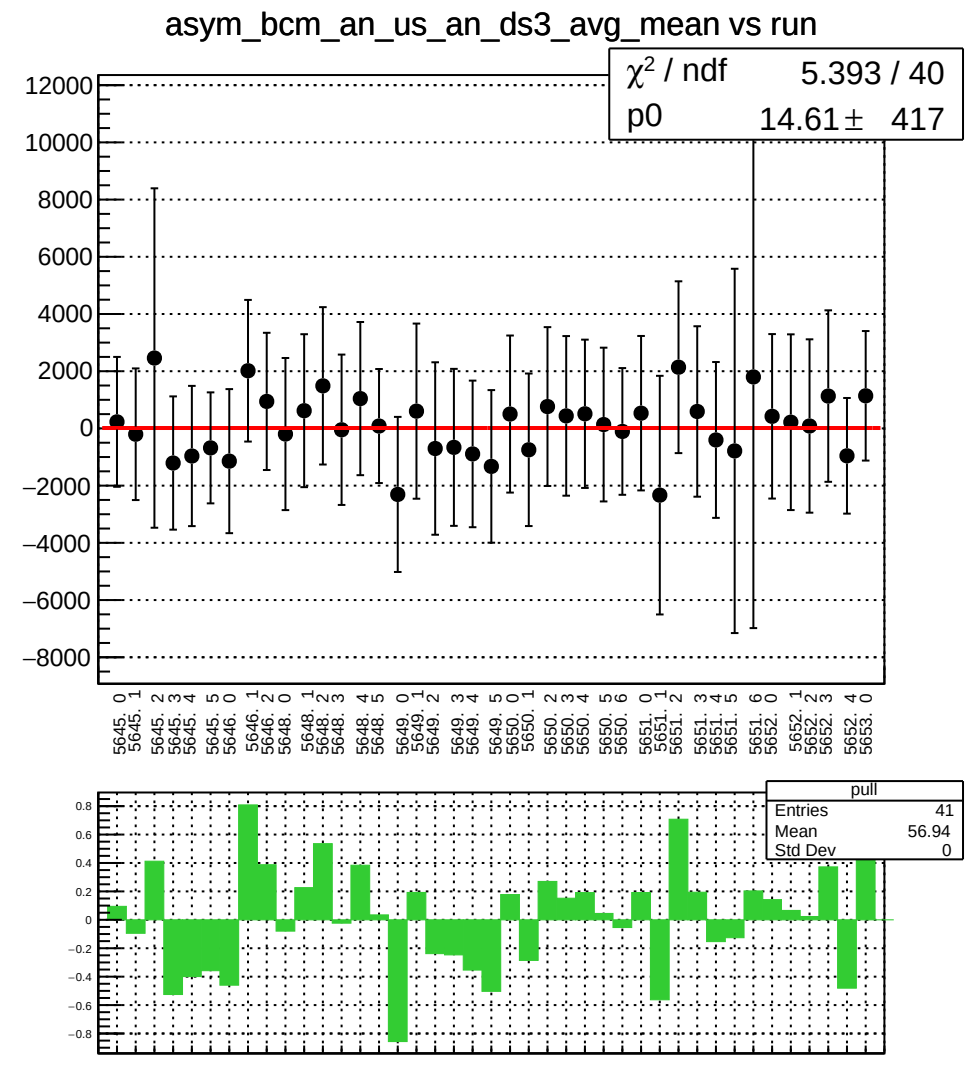

pull1D
Entries 41
Mean 0.01184
Std Dev 0.364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

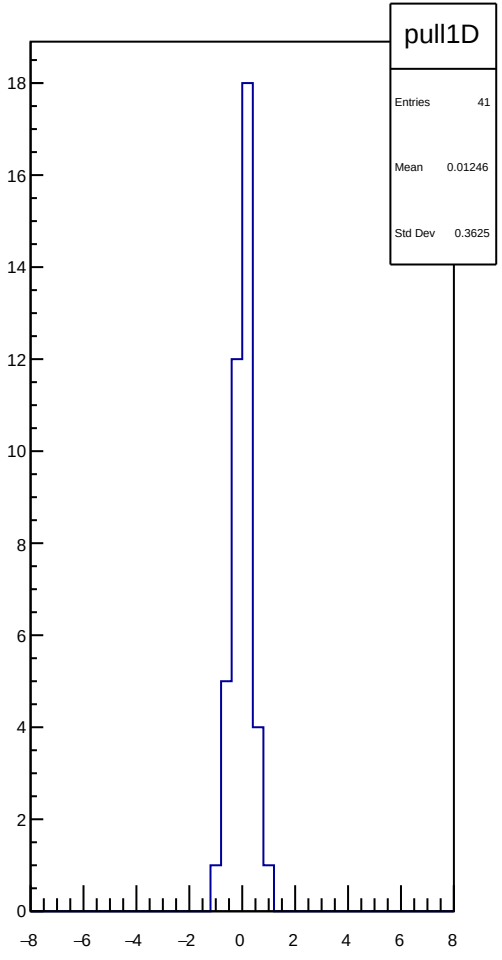

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.312e+04 / 40
p0 255.6 ± 0.2938
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

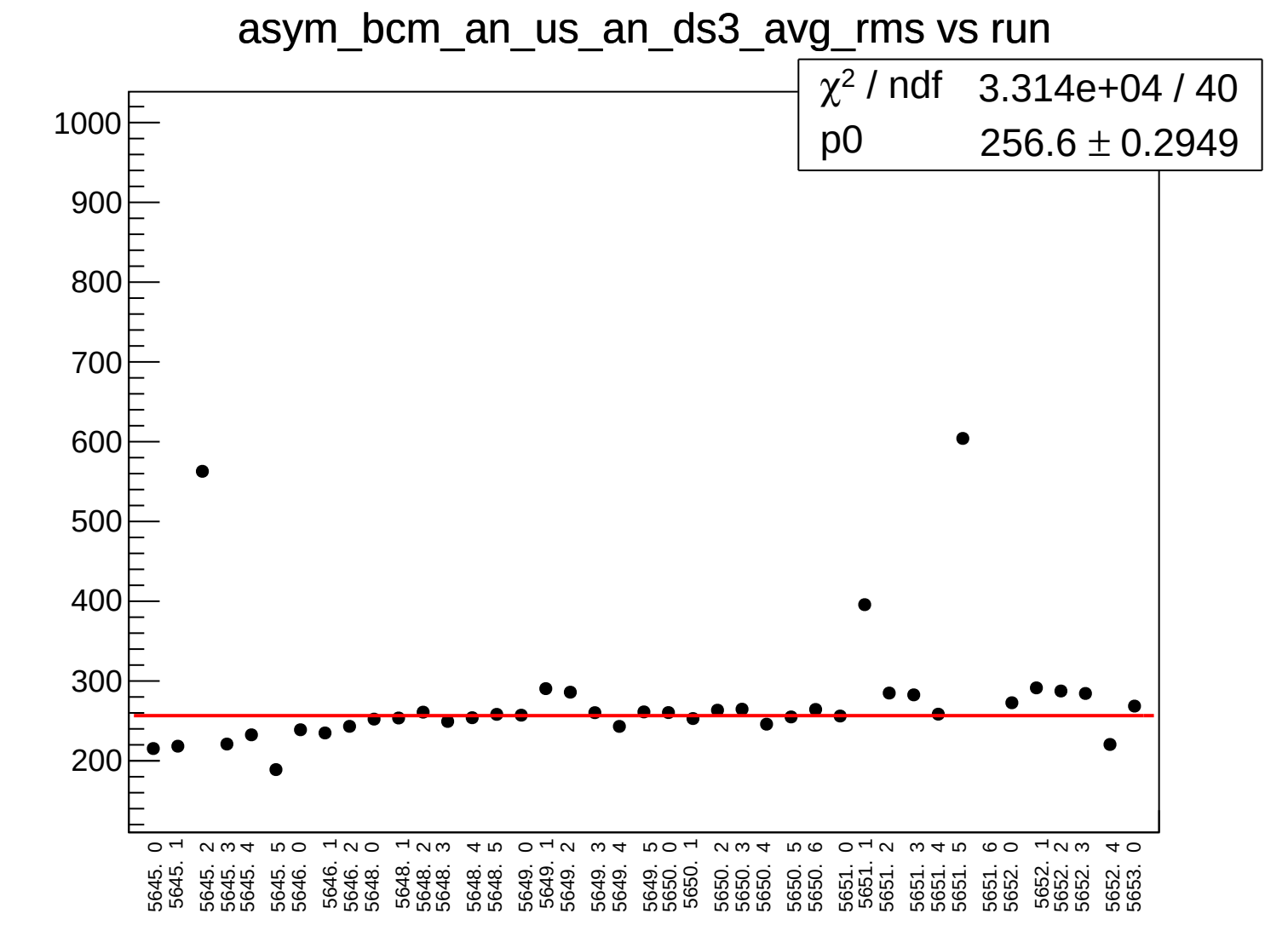

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 34.05 / 40
p0 −10.93 ± 18.1
400
200
0
−200
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 151.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

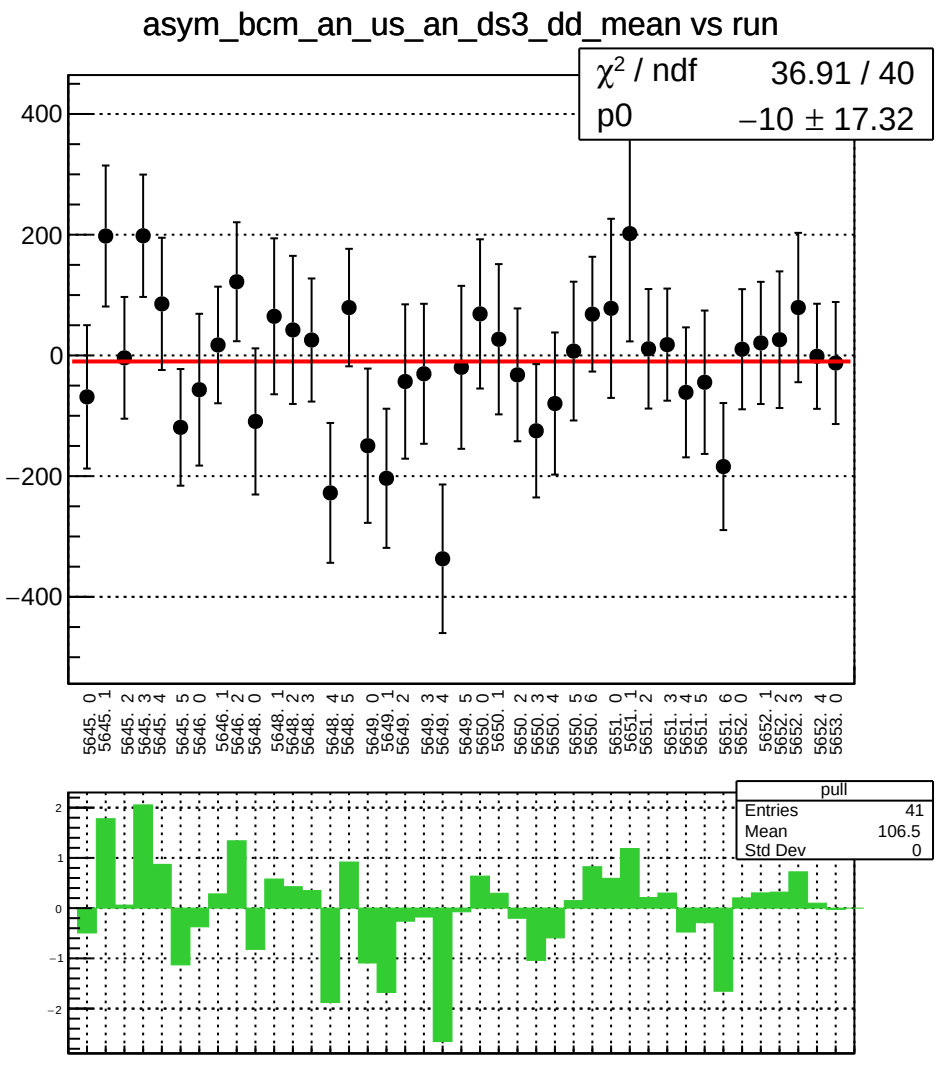

pull1D
Entries 41
Mean −0.006407
Std Dev 0.9112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

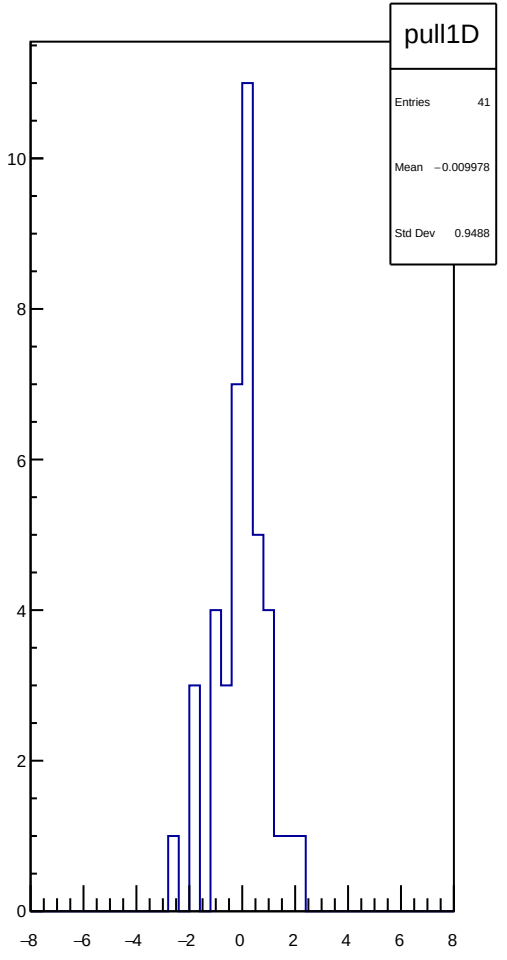

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 9924 / 40
p0 11.31 ± 0.0128
18
17
16
15
14
13
12
11
10
9
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

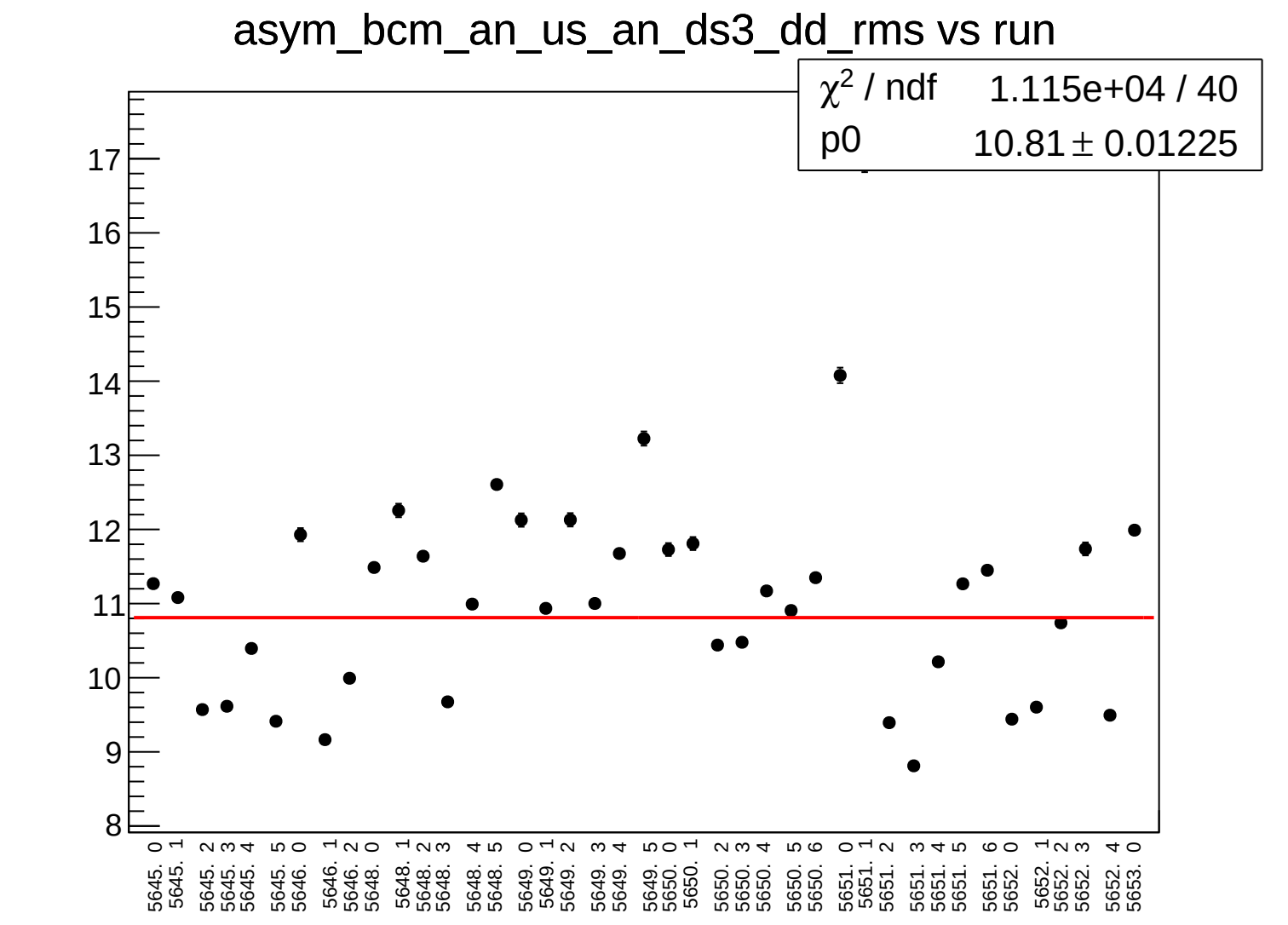

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 5.393 / 40
p0 14.61 ± 417
pull
Entries 41
Mean 56.94
Std Dev 0

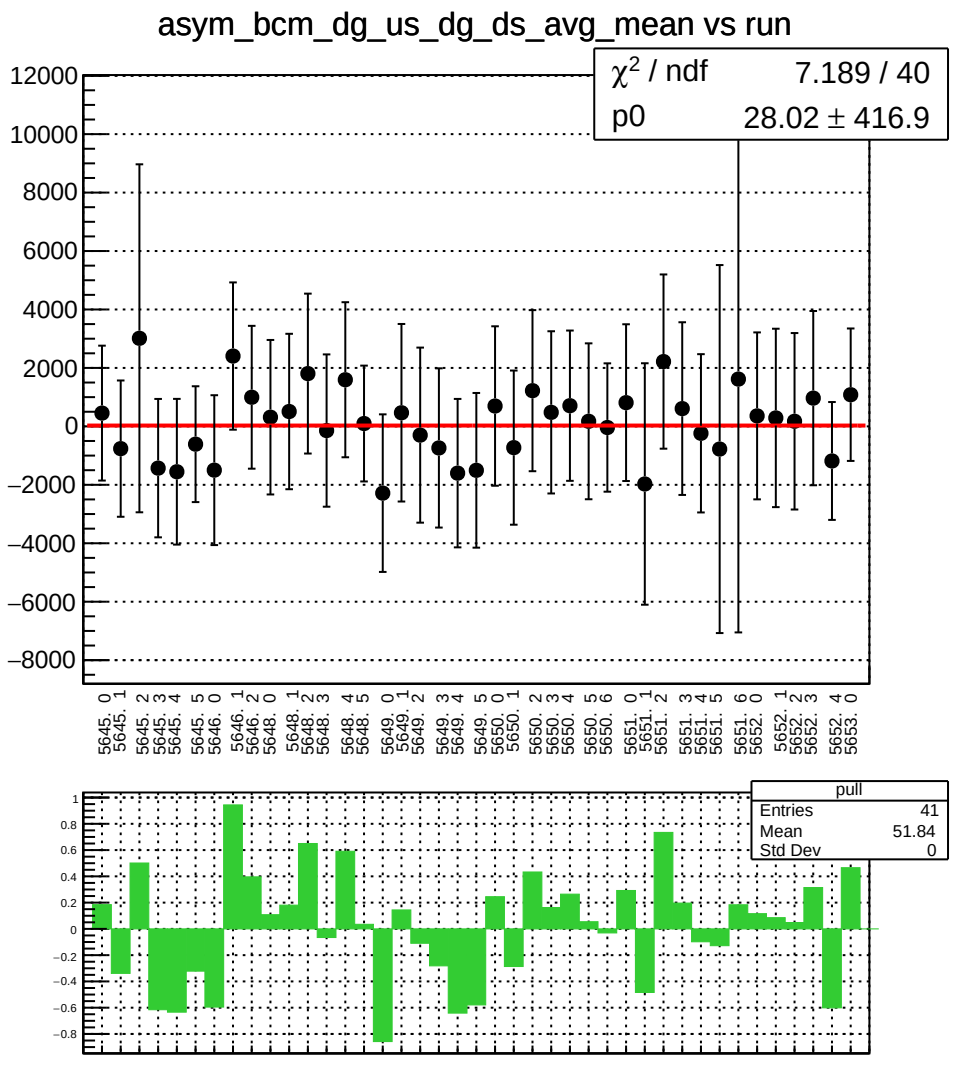

pull1D
Entries 41
Mean 0.01246
Std Dev 0.3625

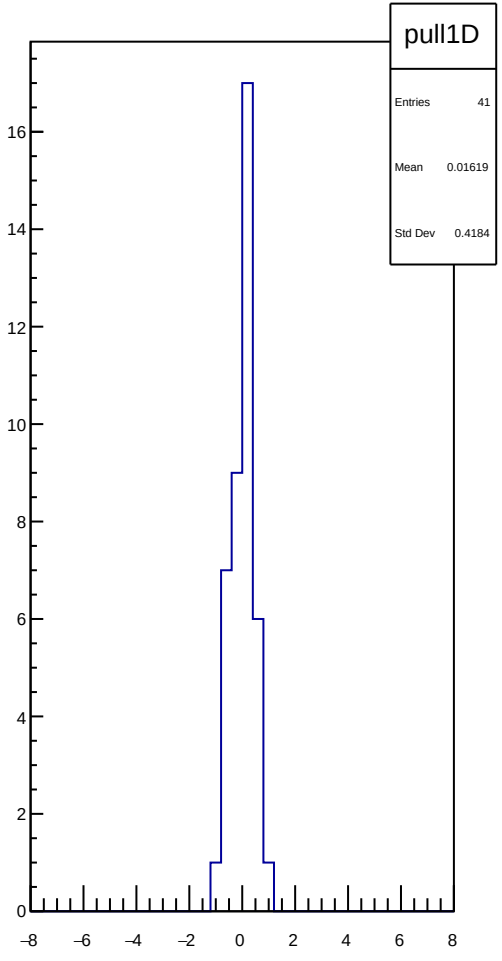

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.314e+04 / 40
p0 256.6 ± 0.2949
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

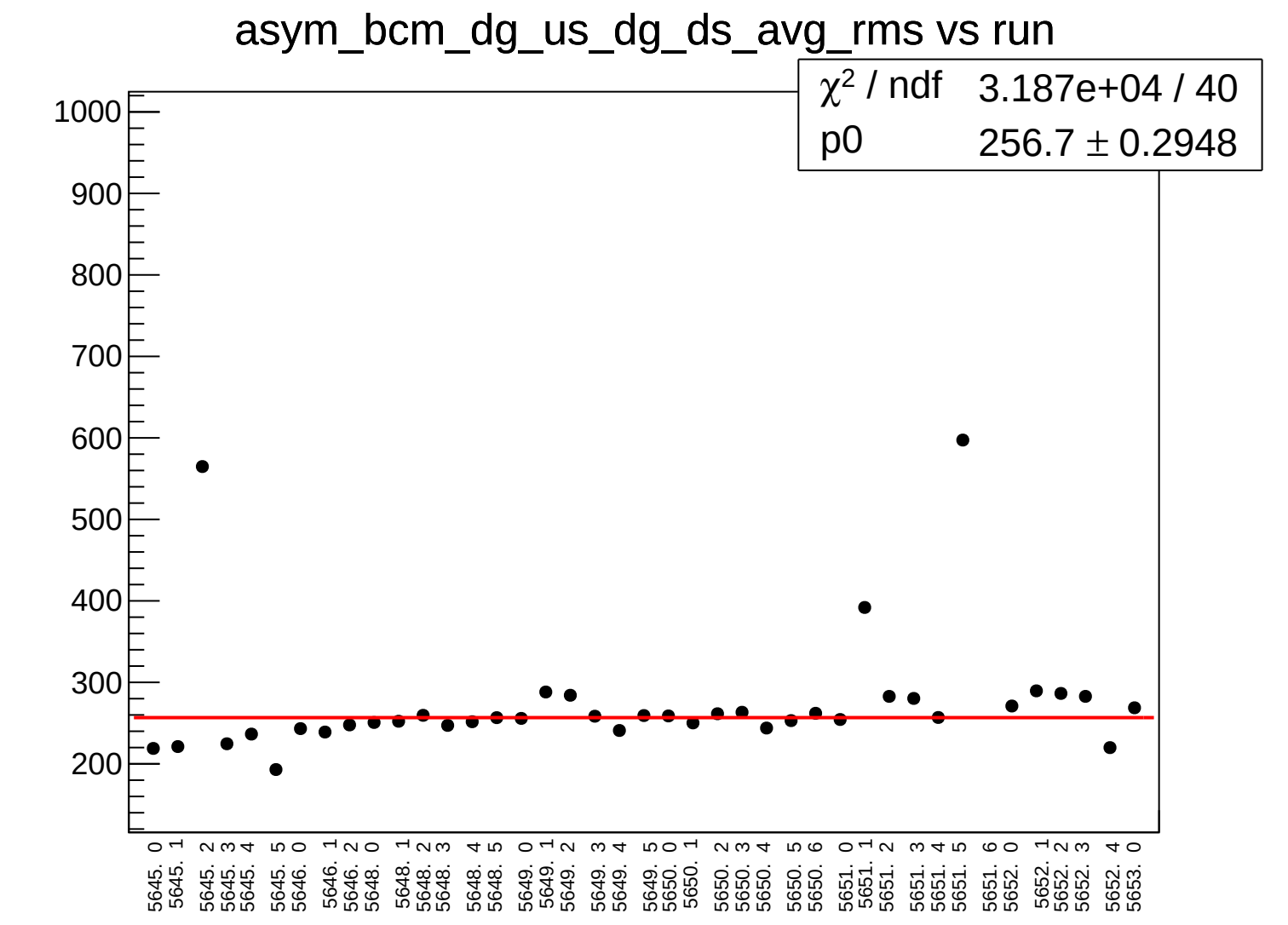

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 36.91 / 40
p0 −10 ± 17.32
400
200
0
−200
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 106.5
Std Dev 0
2
1
0
−1
−2

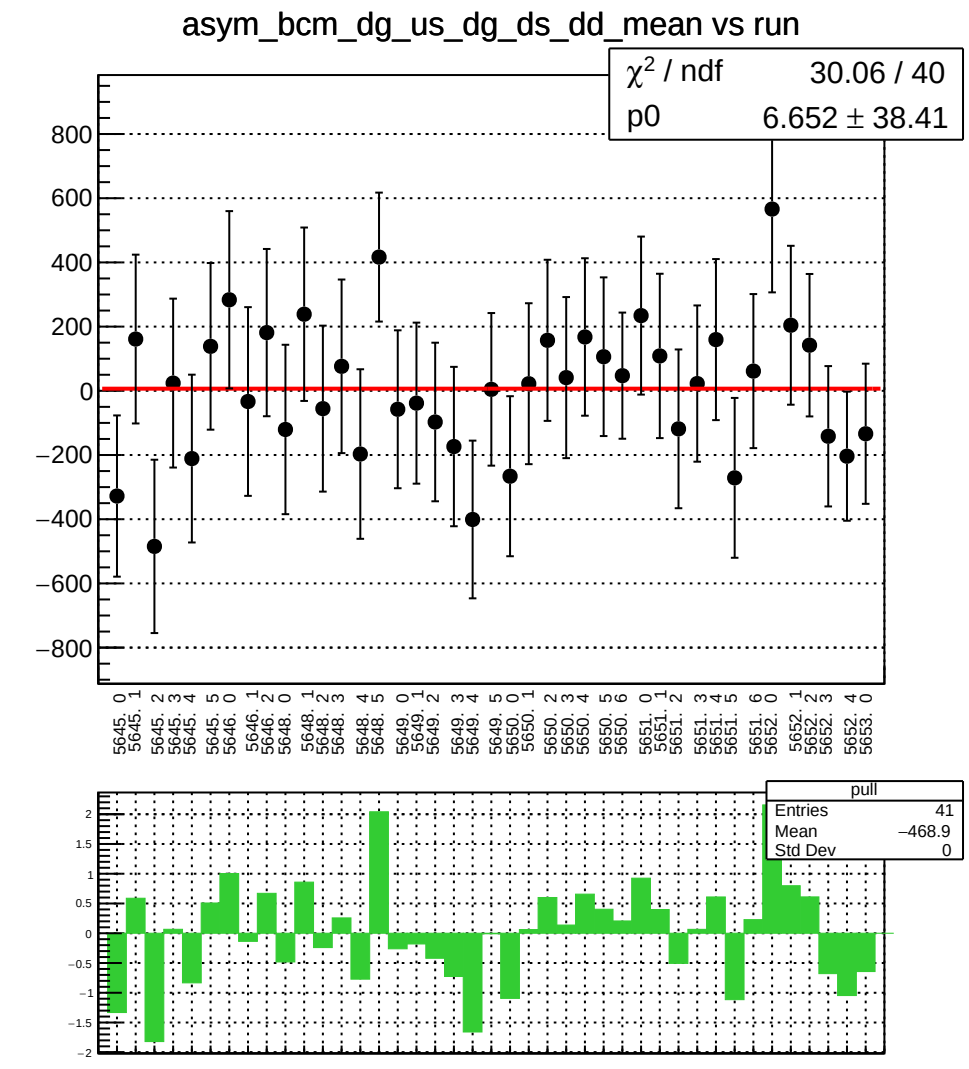

pull1D
Entries 41
Mean −0.009978
Std Dev 0.9488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

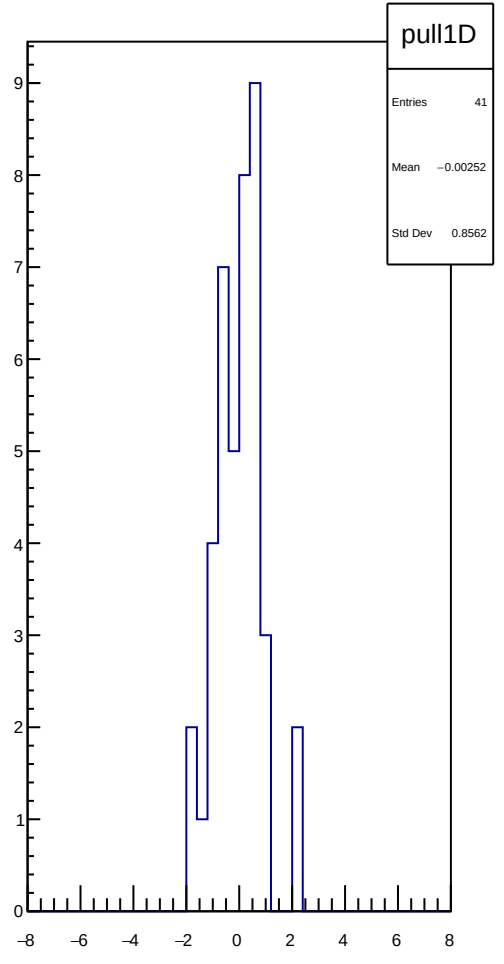

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.115e+04 / 40
p0 10.81 ± 0.01225
17
16
15
14
13
12
11
10
9
8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

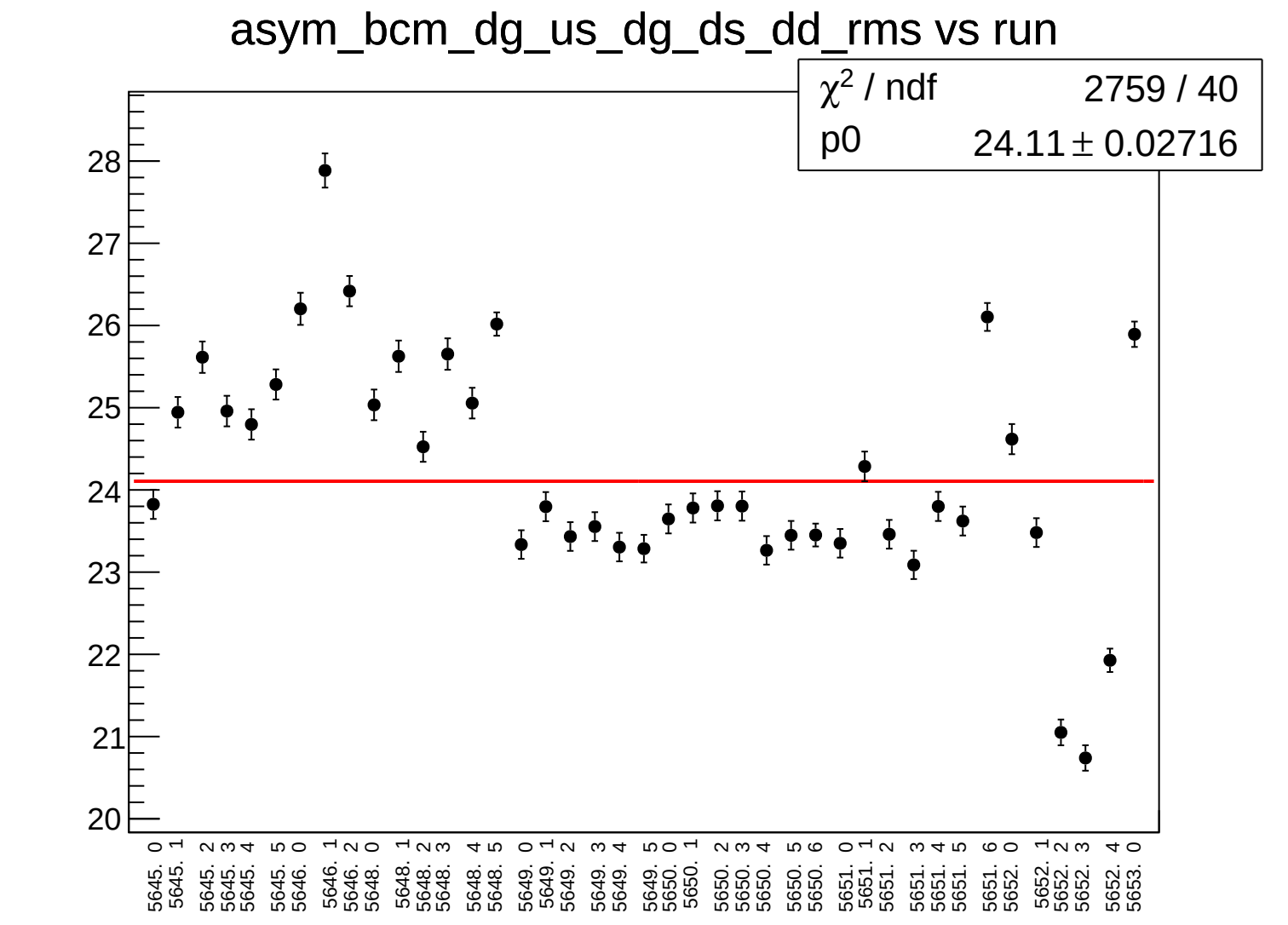

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 7.189 / 40
p0 28.02 ± 416.9
pull
Entries 41
Mean 51.84
Std Dev 0

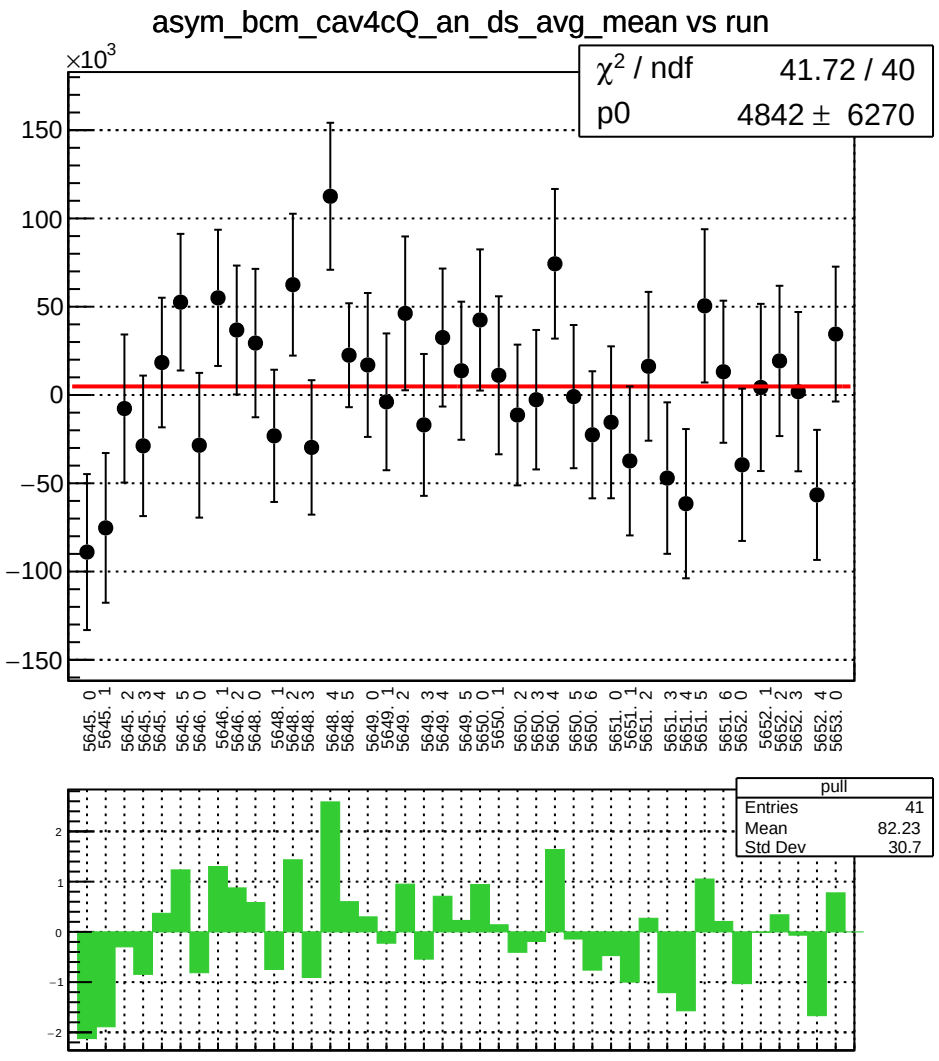

pull1D
Entries 41
Mean 0.01619
Std Dev 0.4184

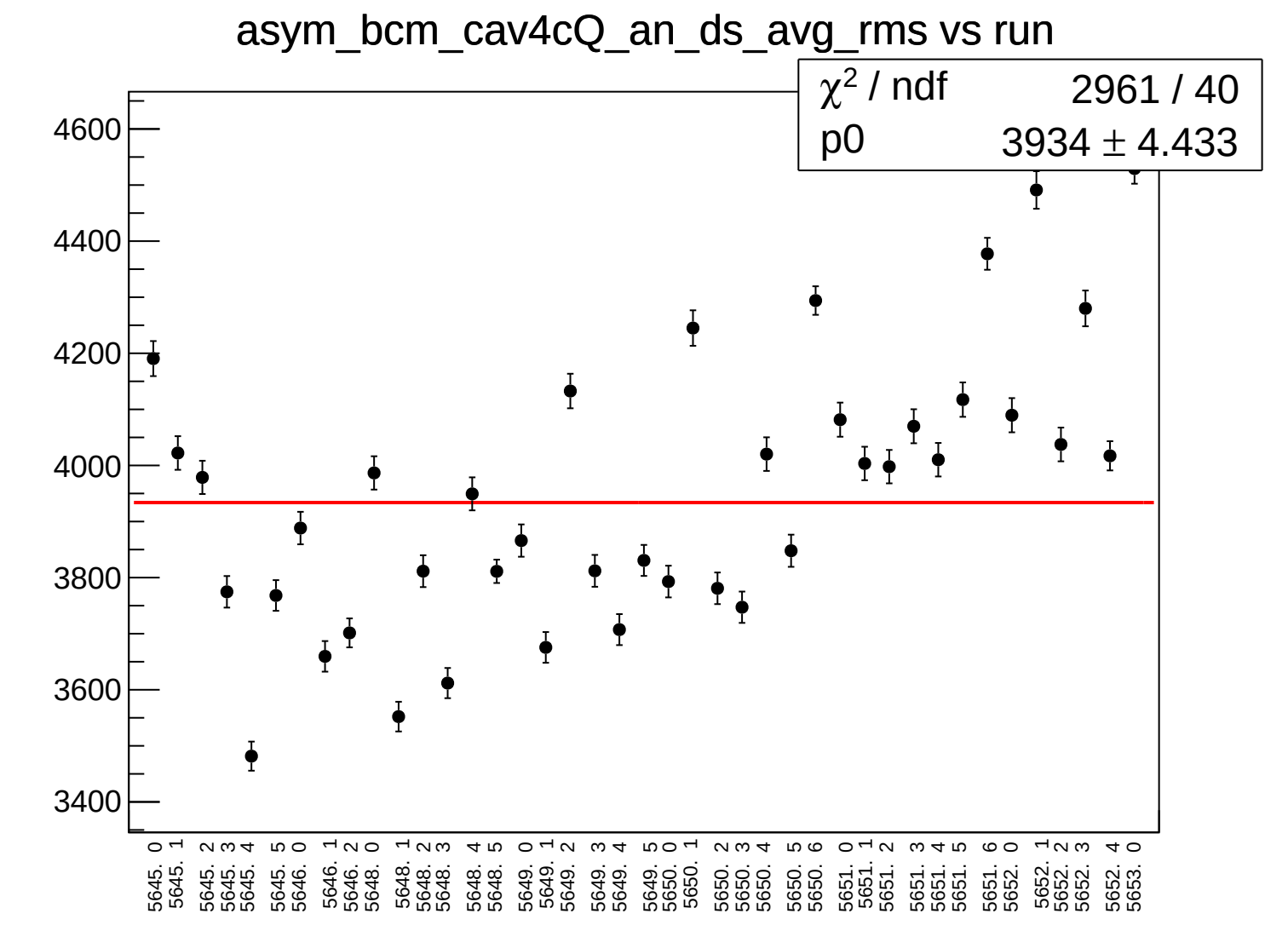

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.187e+04 / 40
p0 256.7 ± 0.2948
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

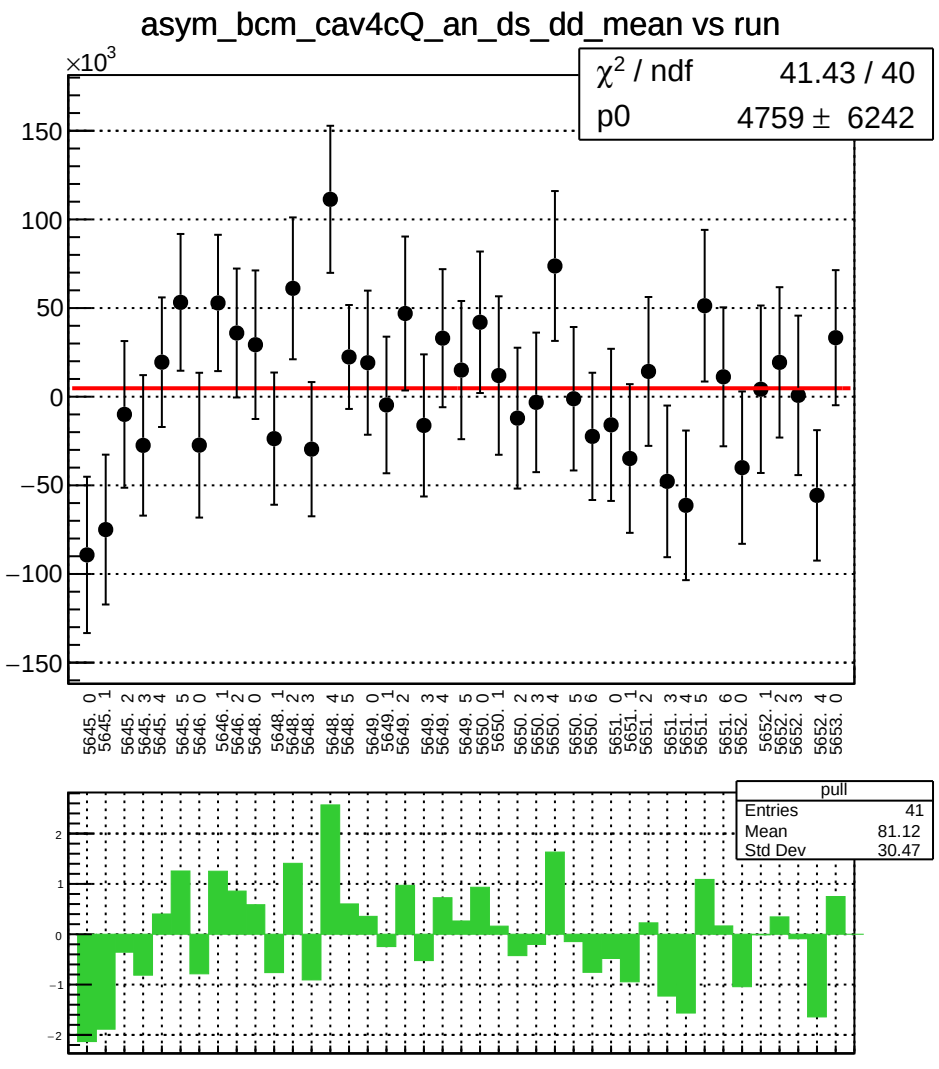

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 30.06 / 40
p0 6.652 ± 38.41
pull
Entries 41
Mean −468.9
Std Dev 0

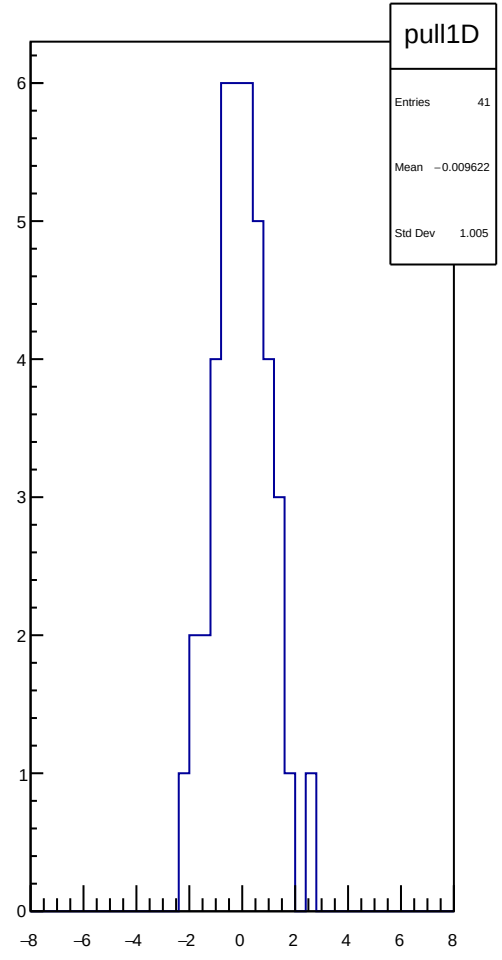

pull1D
Entries 41
Mean −0.00252
Std Dev 0.8562

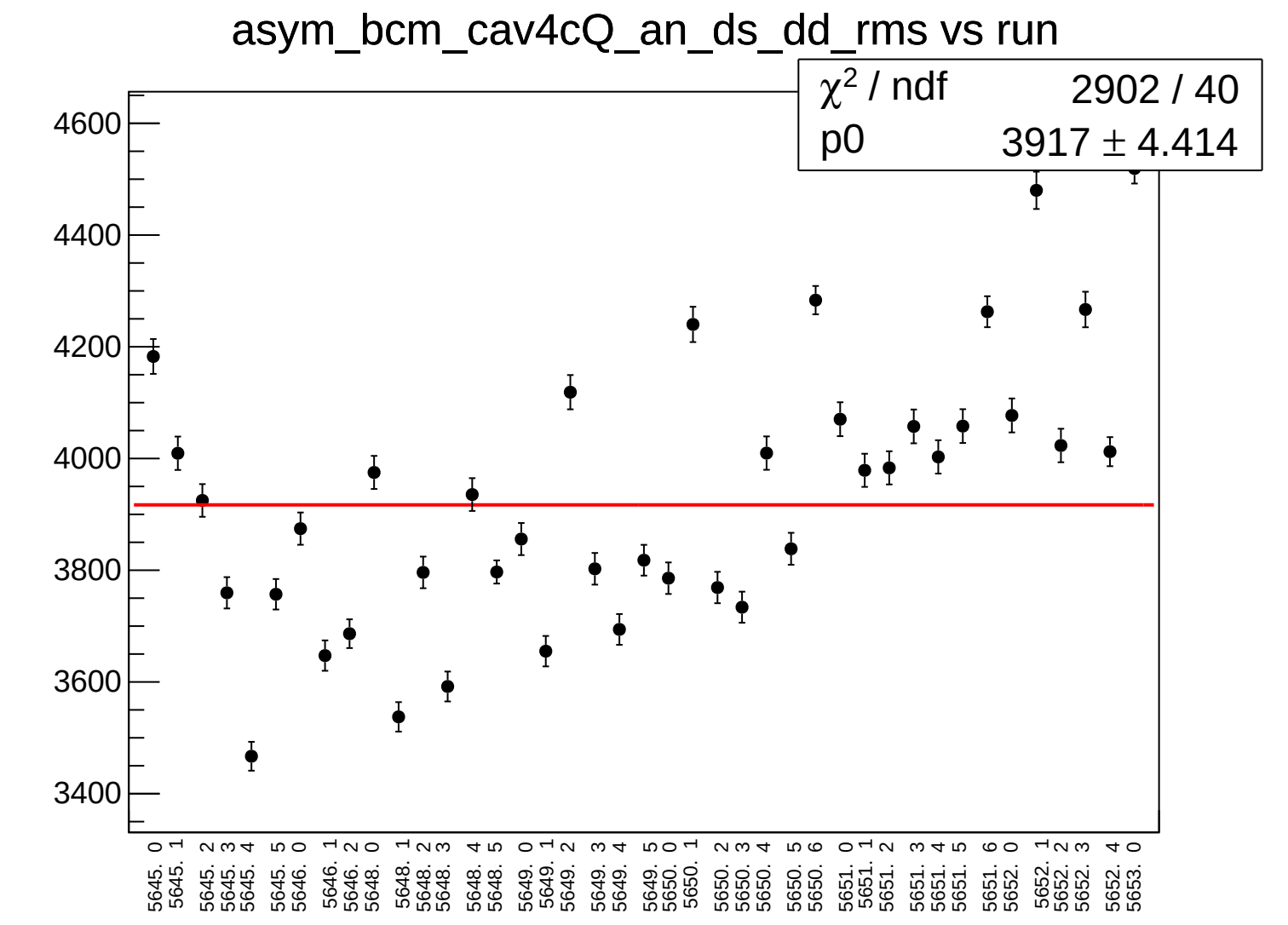

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2759 / 40
p0 24.11 ± 0.02716
28
27
26
25
24
23
22
21
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

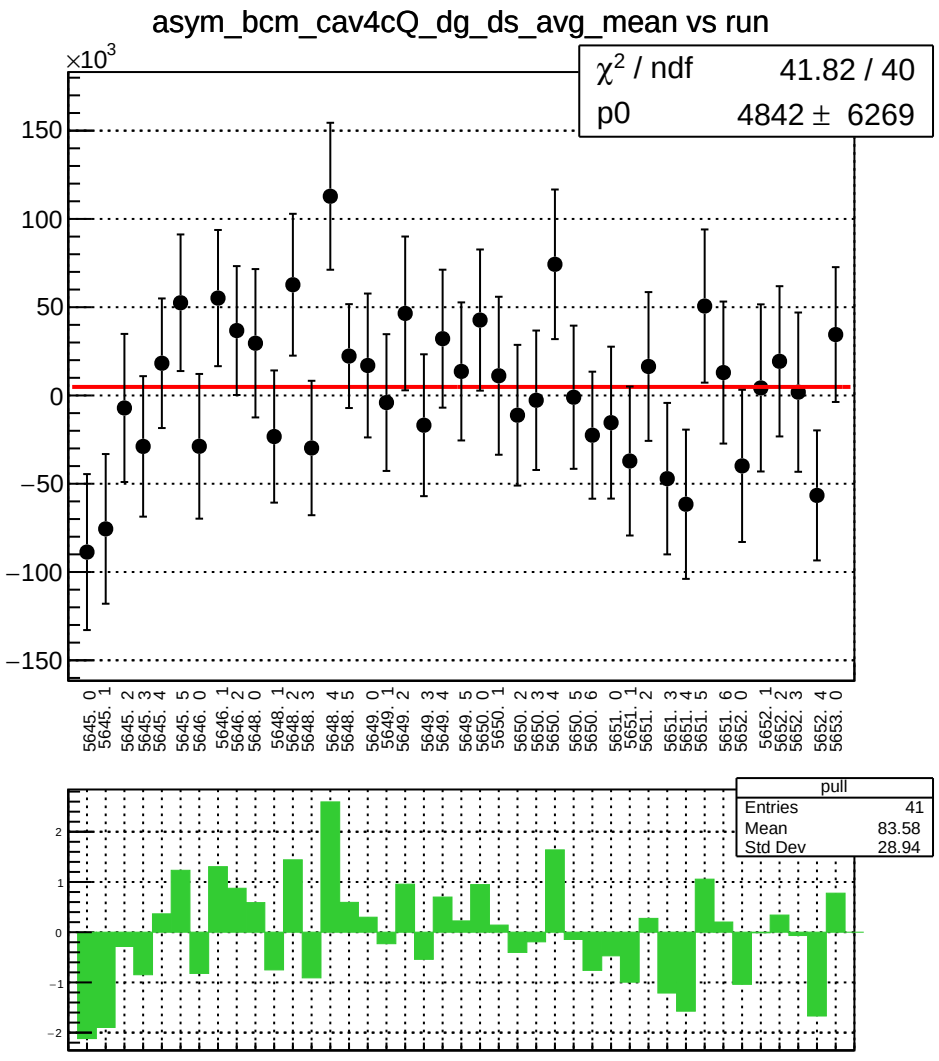

asym_bcm_cav4cQ_an_ds_avg_mean vs run
×10^3
χ^2 / ndf 41.72 / 40
p0 4842 ± 6270
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 82.23
Std Dev 30.7
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009208
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

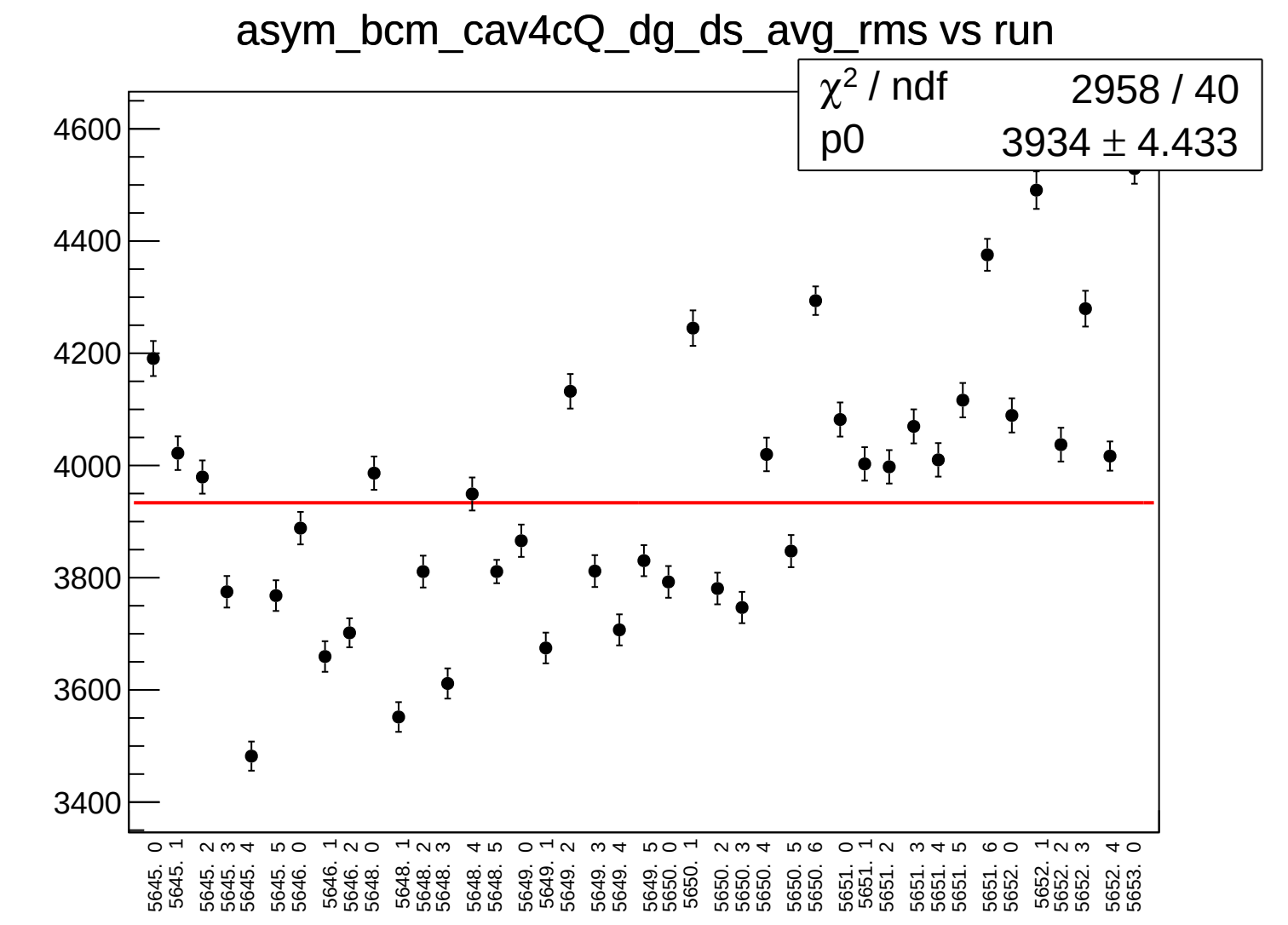

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2961 / 40
p0 3934 ± 4.433
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

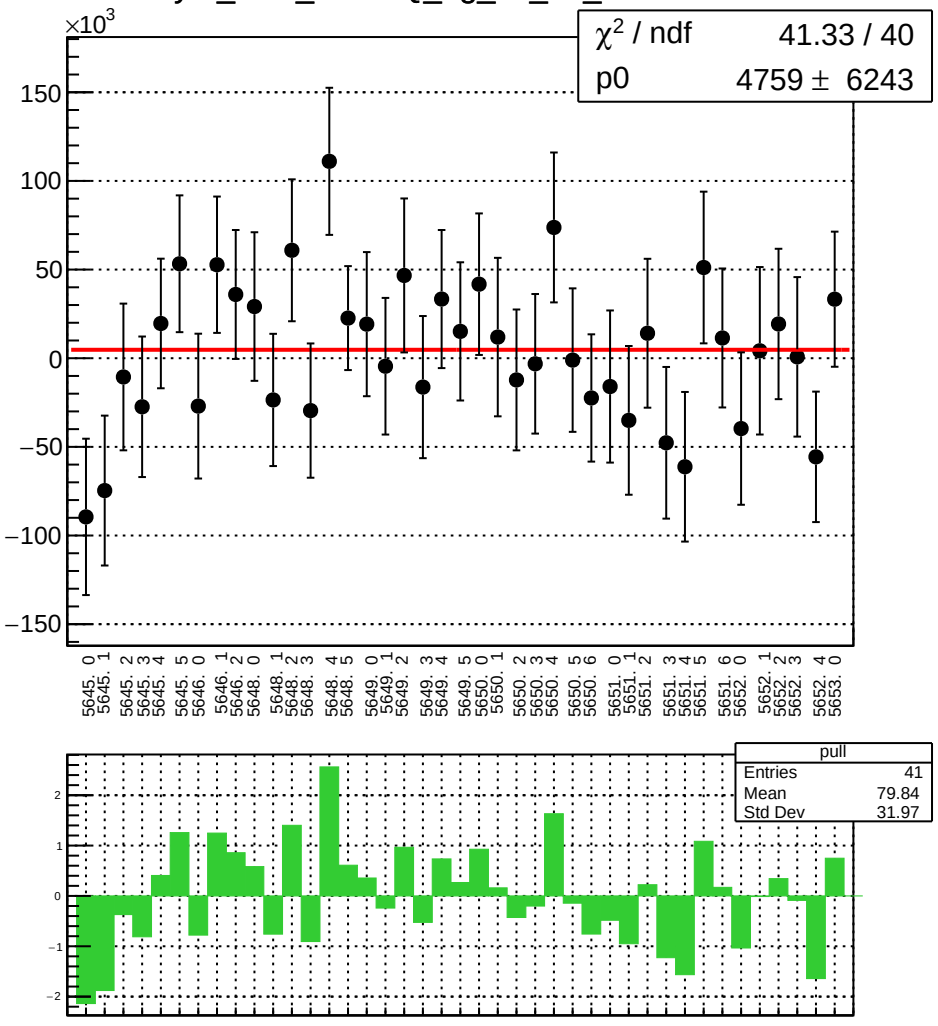

asym_bcm_cav4cQ_an_ds_dd_mean vs run
×10^3
χ² / ndf 41.43 / 40
p0 4759 ± 6242
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.12
Std Dev 30.47
2
1
0
−1
−2

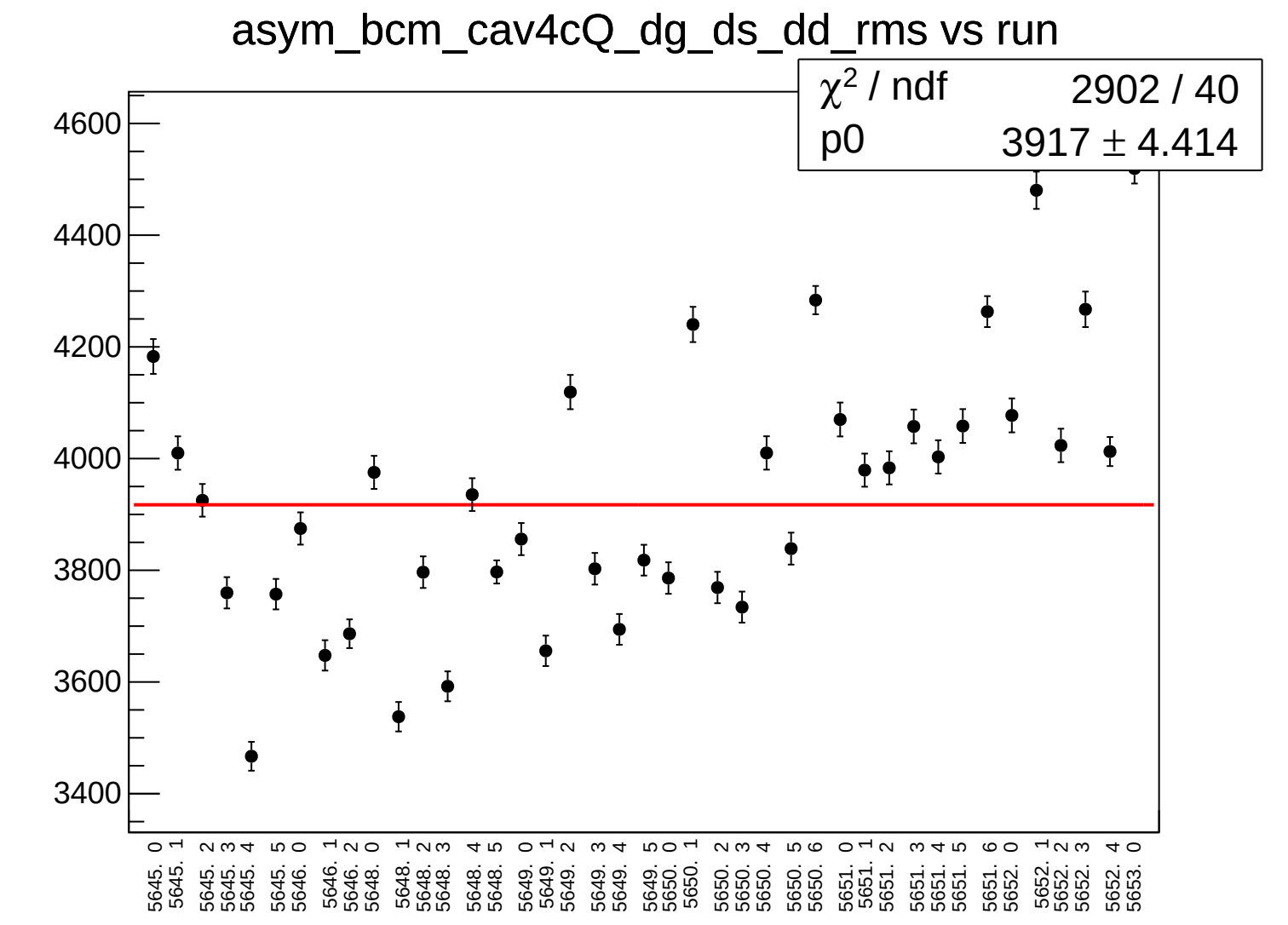

pull1D
Entries 41
Mean −0.009622
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

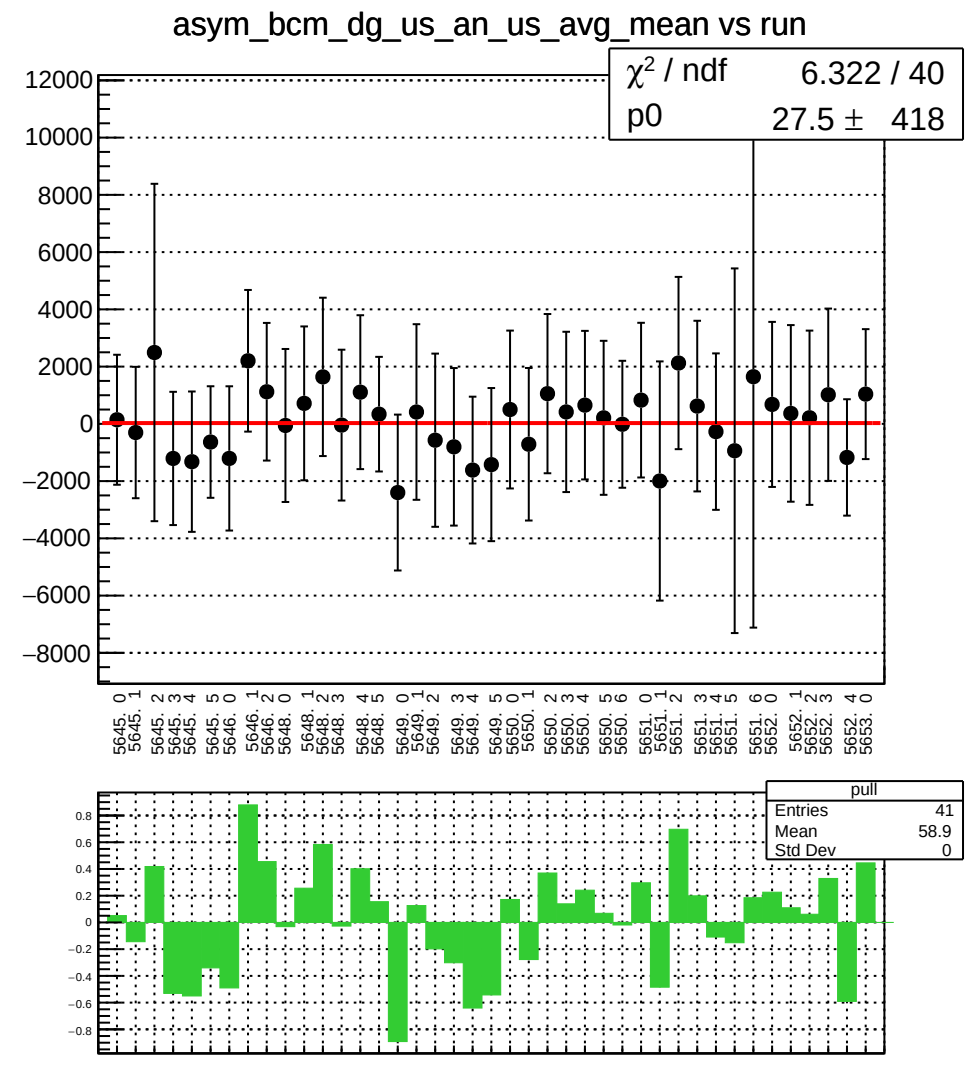

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2902 / 40
p0 3917 ± 4.414
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

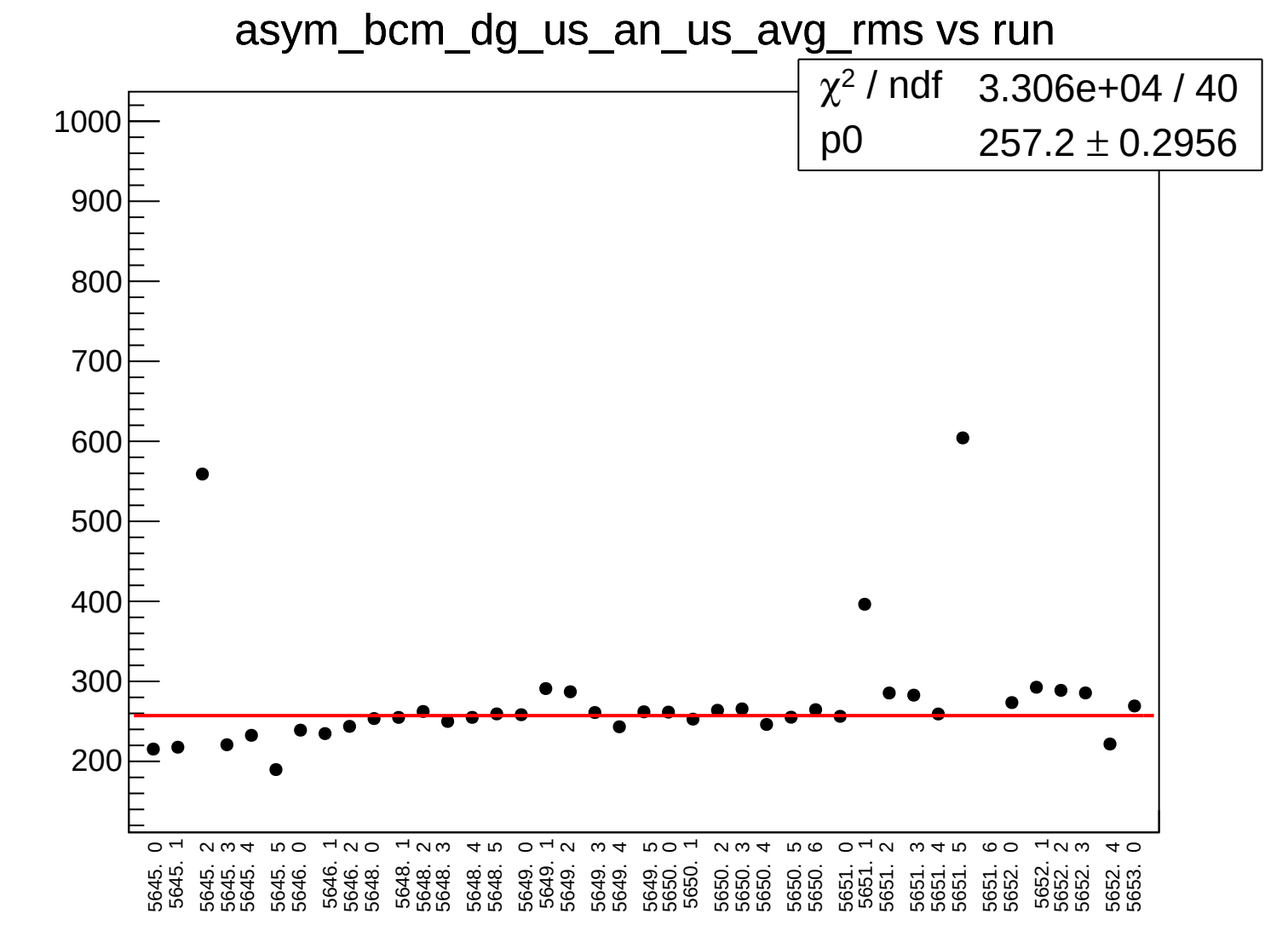

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
×10^3
χ^2 / ndf 41.82 / 40
p0 4842 ± 6269
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 83.58
Std Dev 28.94
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009082
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

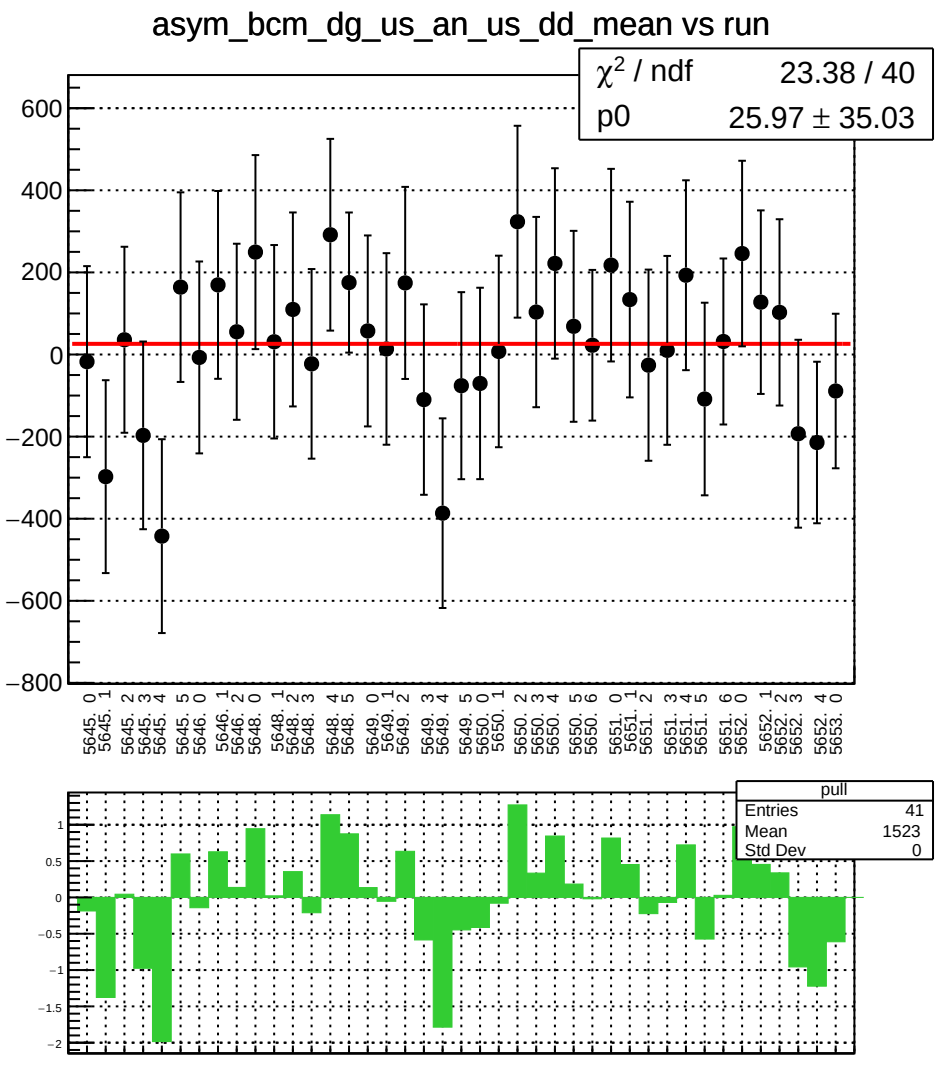

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2958 / 40
p0 3934 ± 4.433
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

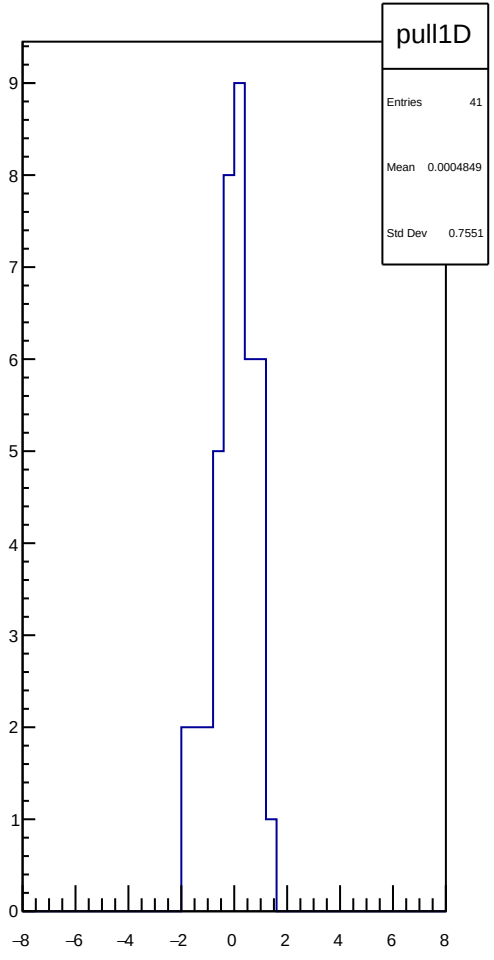

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
×10^3
χ² / ndf 41.33 / 40
p0 4759 ± 6243
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 79.84
Std Dev 31.97
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.009753
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

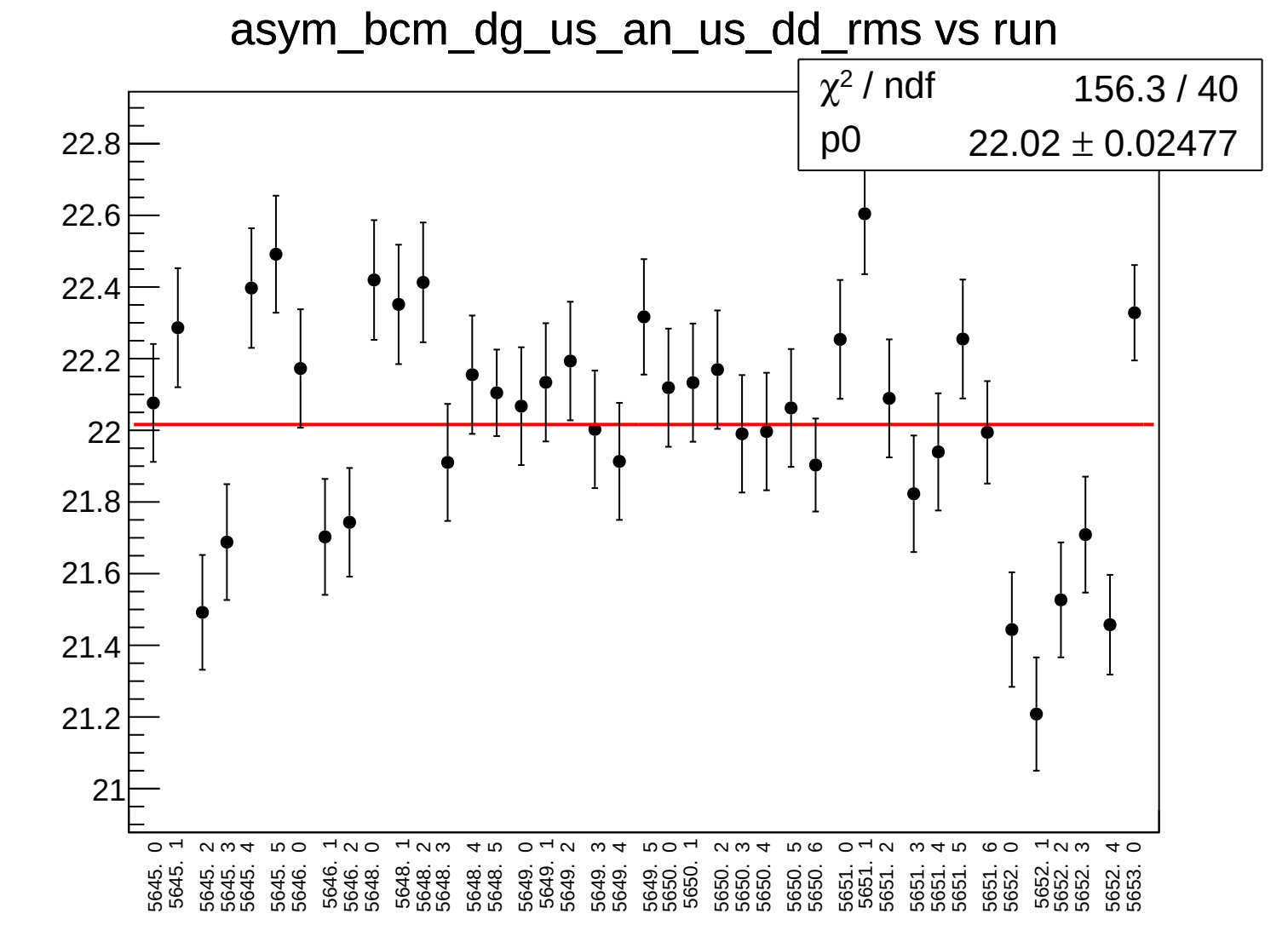

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2902 / 40
p0 3917 ± 4.414
4600
4400
4200
4000
3800
3600
3400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

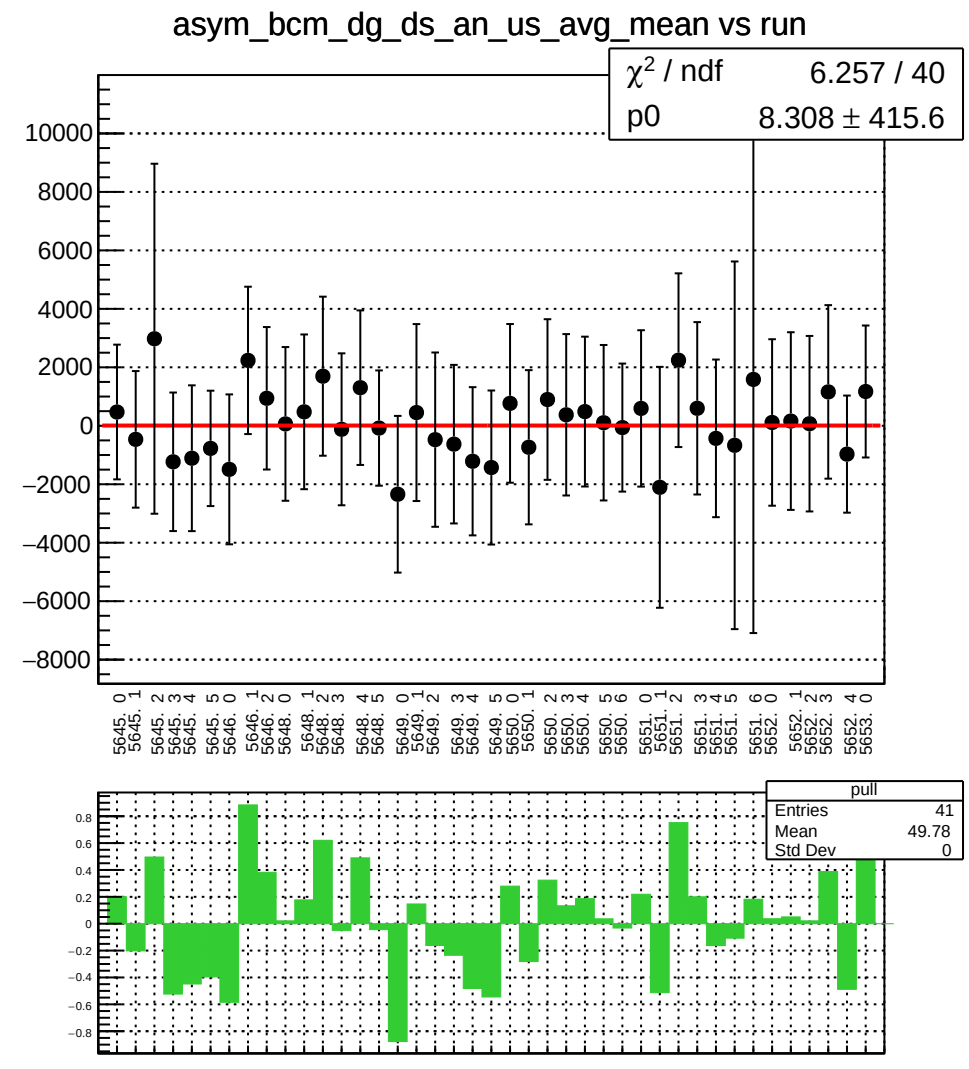

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 6.322 / 40
p0 27.5 ± 418
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 58.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01328
Std Dev 0.3925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

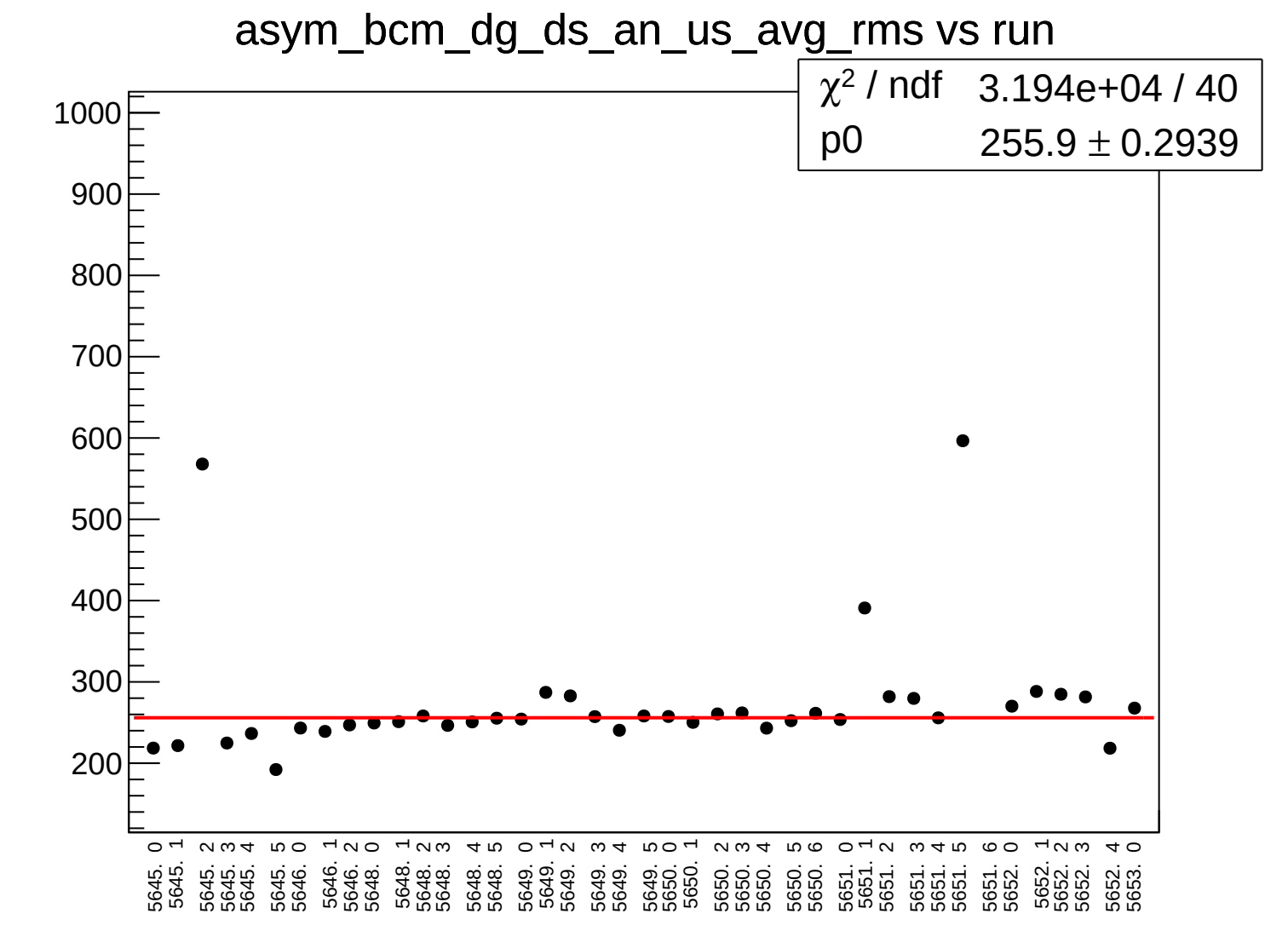

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.306e+04 / 40
p0 257.2 ± 0.2956
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

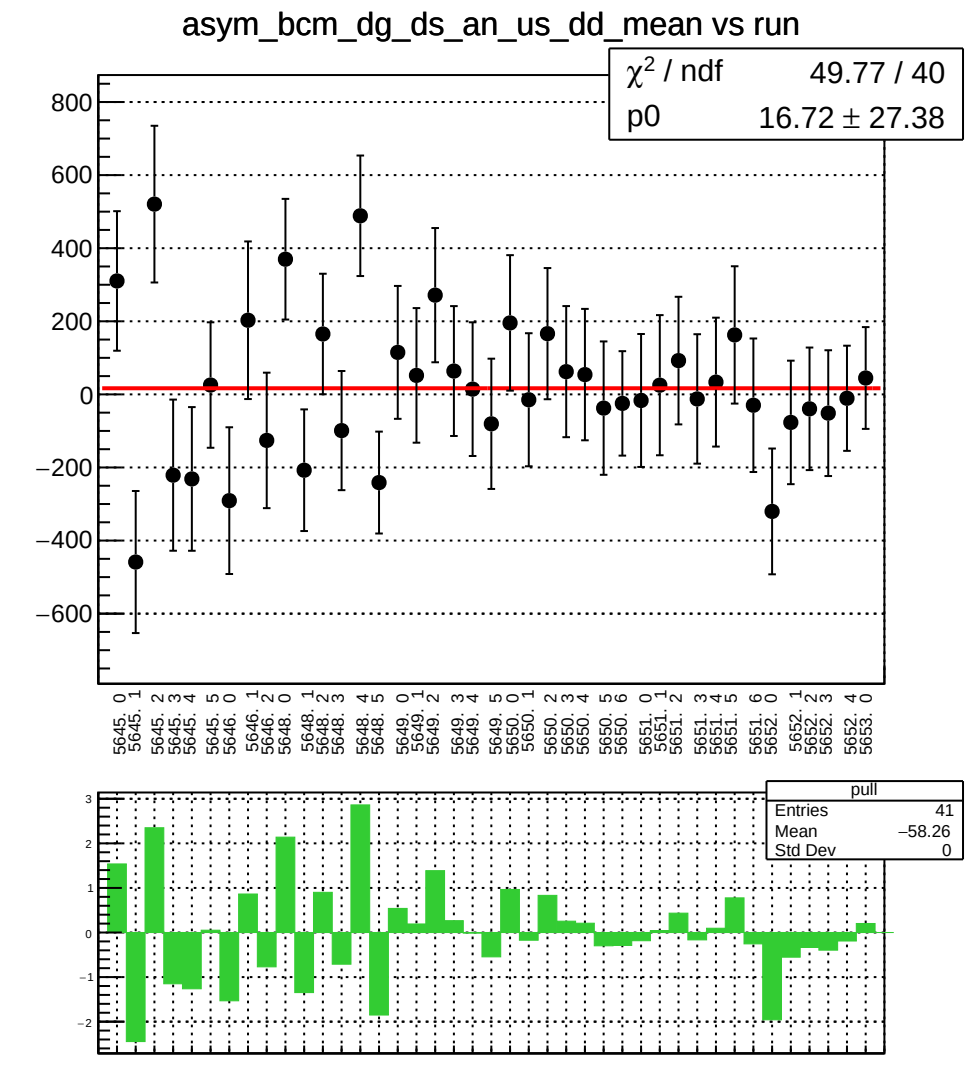

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 23.38 / 40
p0 25.97 ± 35.03
pull
Entries 41
Mean 1523
Std Dev 0

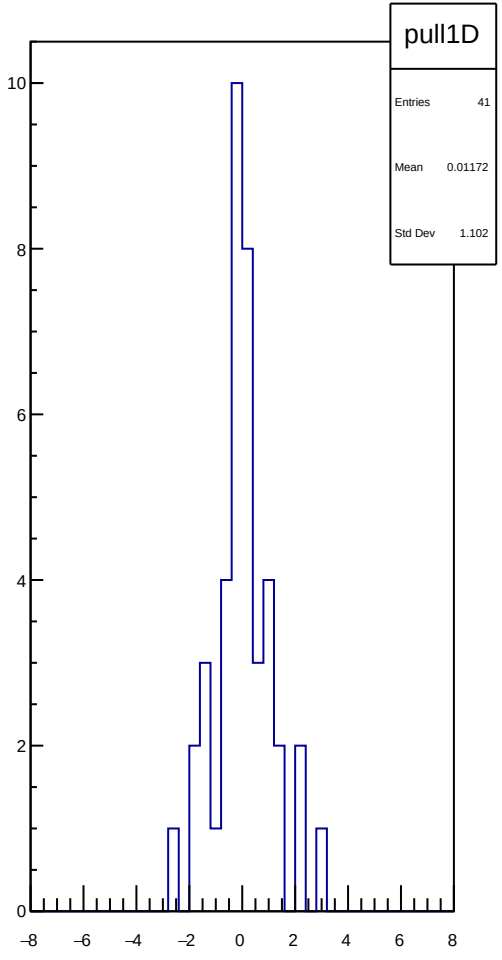

pull1D
Entries 41
Mean 0.0004849
Std Dev 0.7551

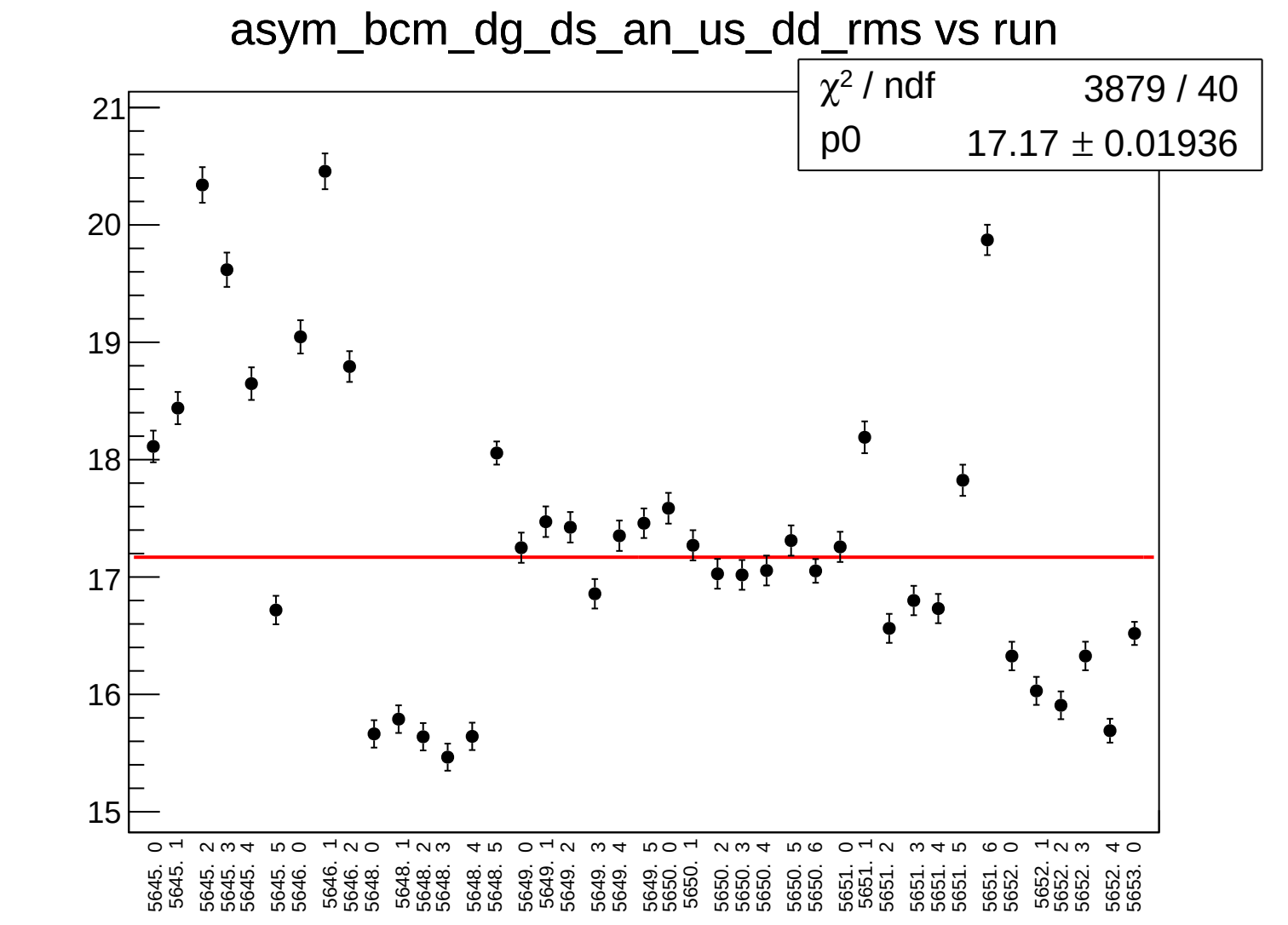

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 156.3 / 40
p0 22.02 ± 0.02477
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

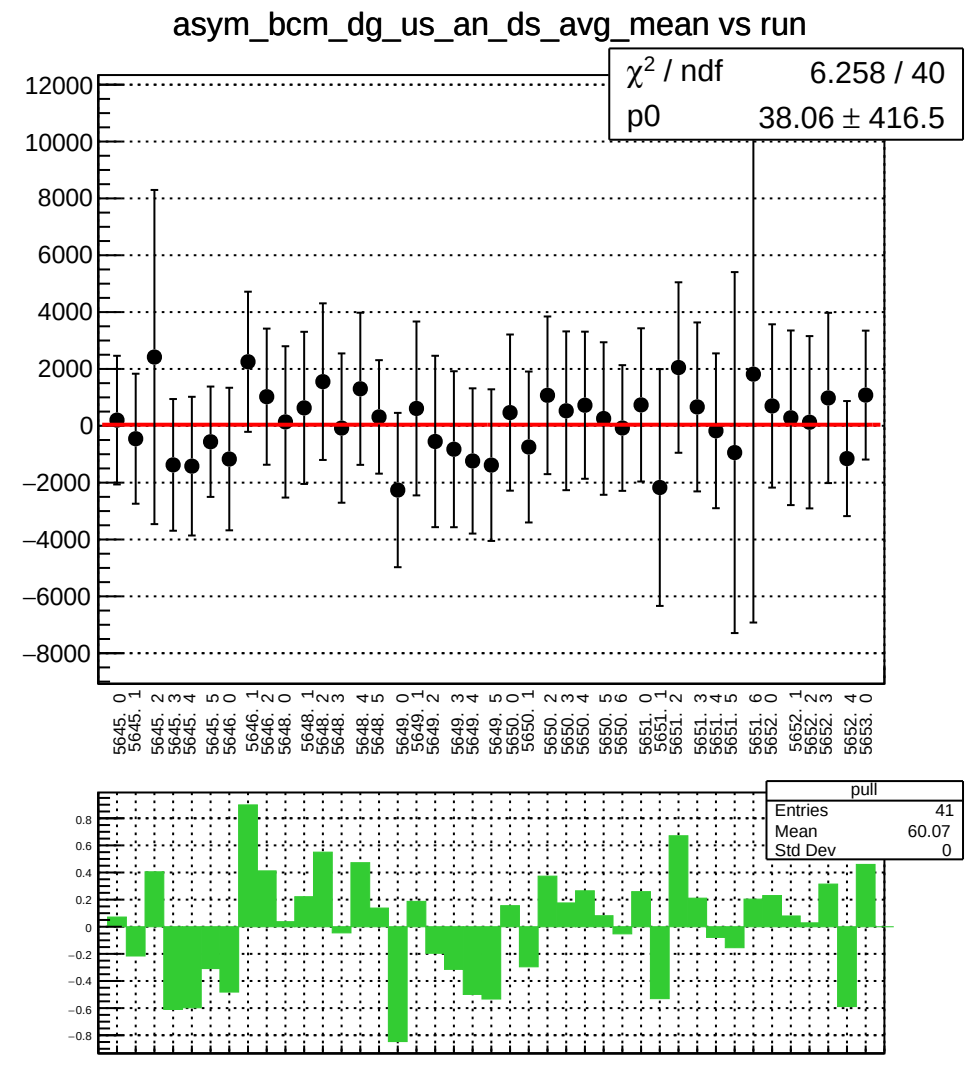

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 6.257 / 40
p0 8.308 ± 415.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 49.78
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01485
Std Dev 0.3904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

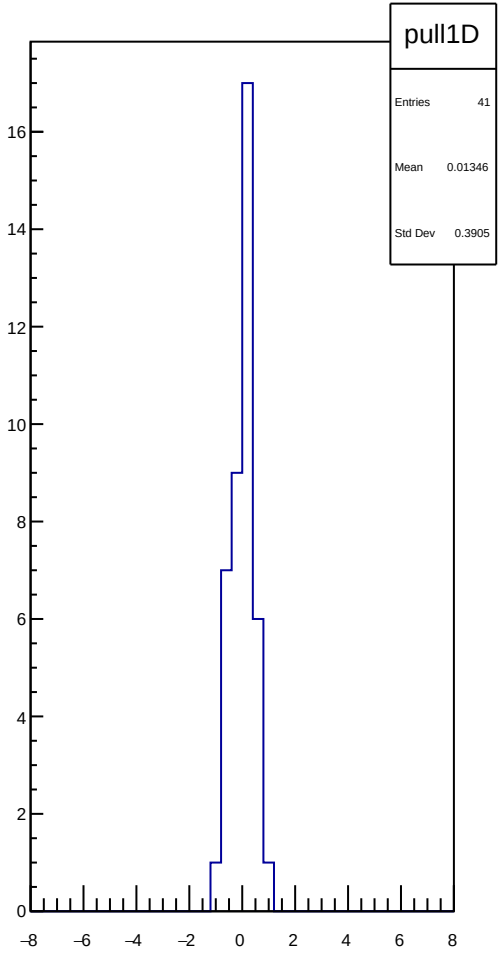

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.194e+04 / 40
p0 255.9 ± 0.2939
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

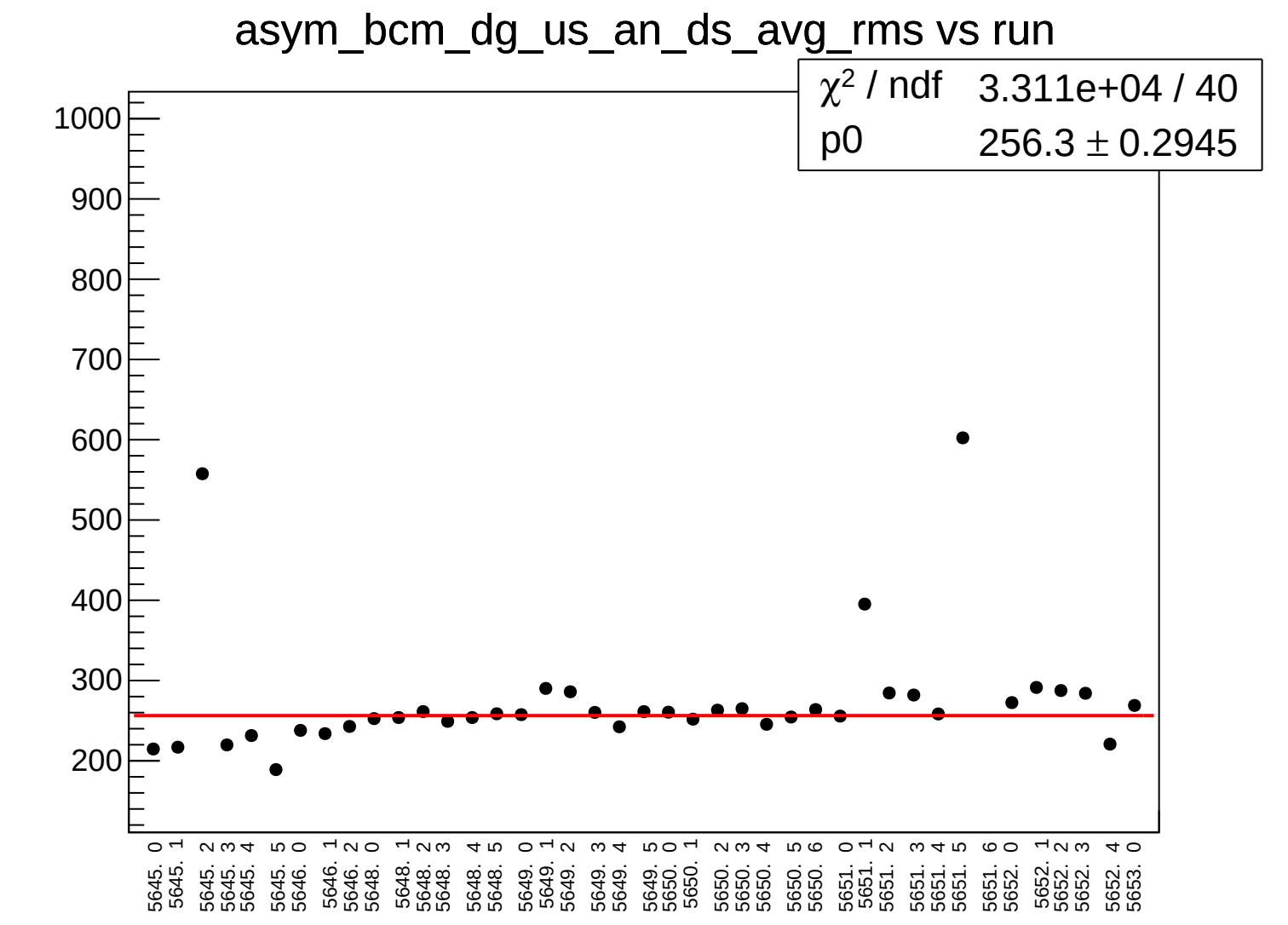

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 49.77 / 40
p0 16.72 ± 27.38
pull
Entries 41
Mean −58.26
Std Dev 0

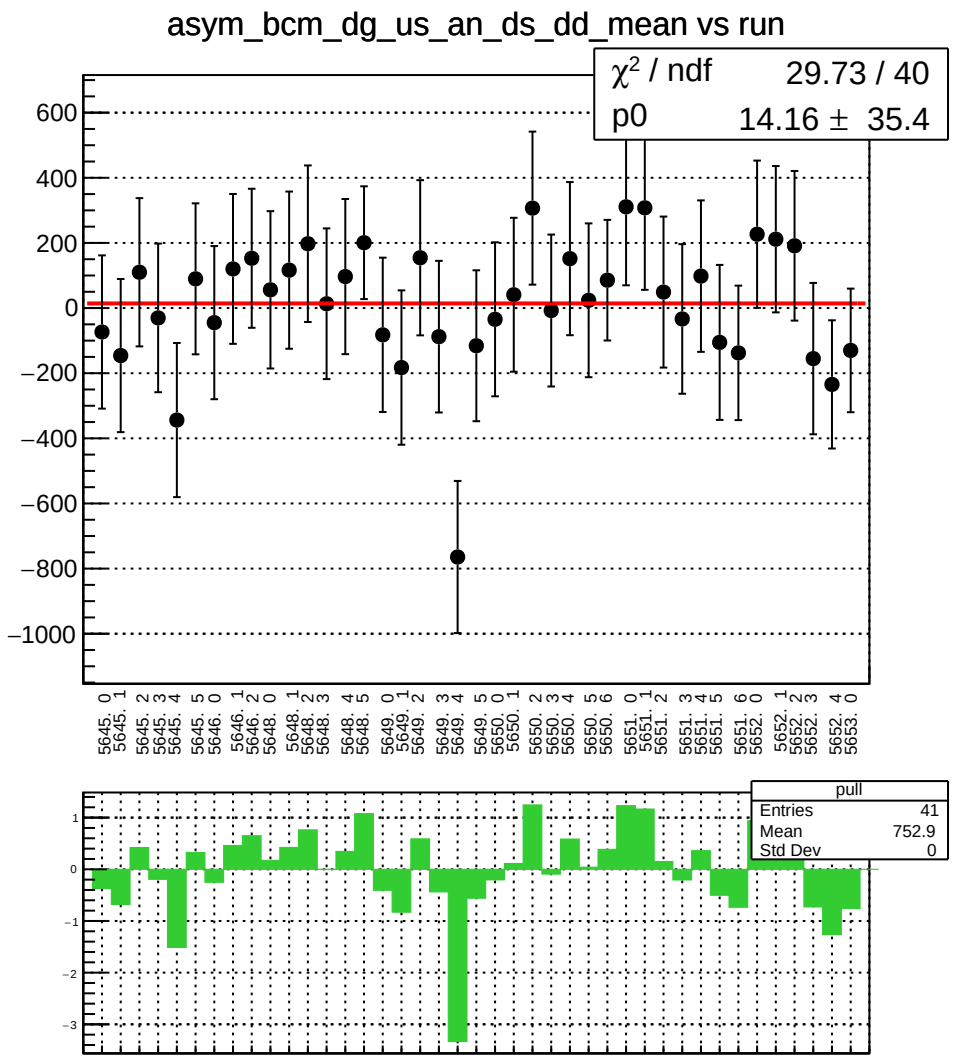

pull1D
Entries 41
Mean 0.01172
Std Dev 1.102

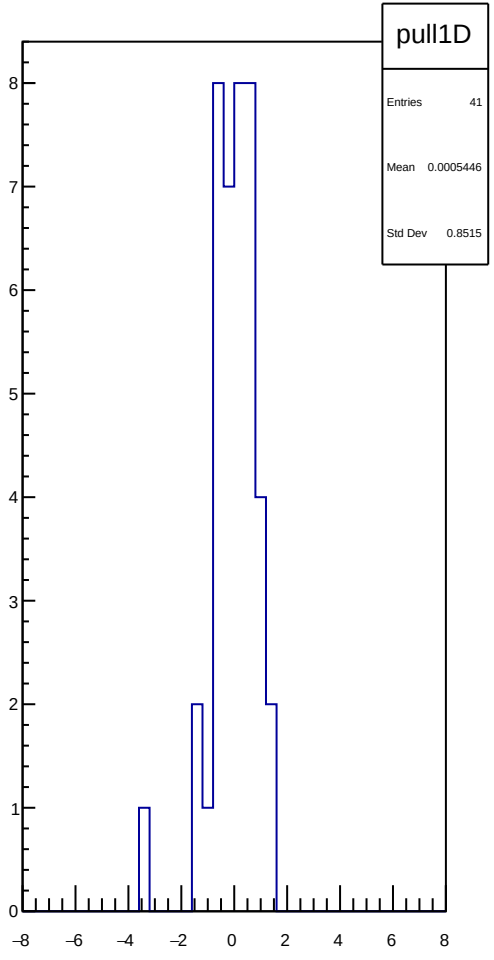

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3879 / 40
p0 17.17 ± 0.01936
21
20
19
18
17
16
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

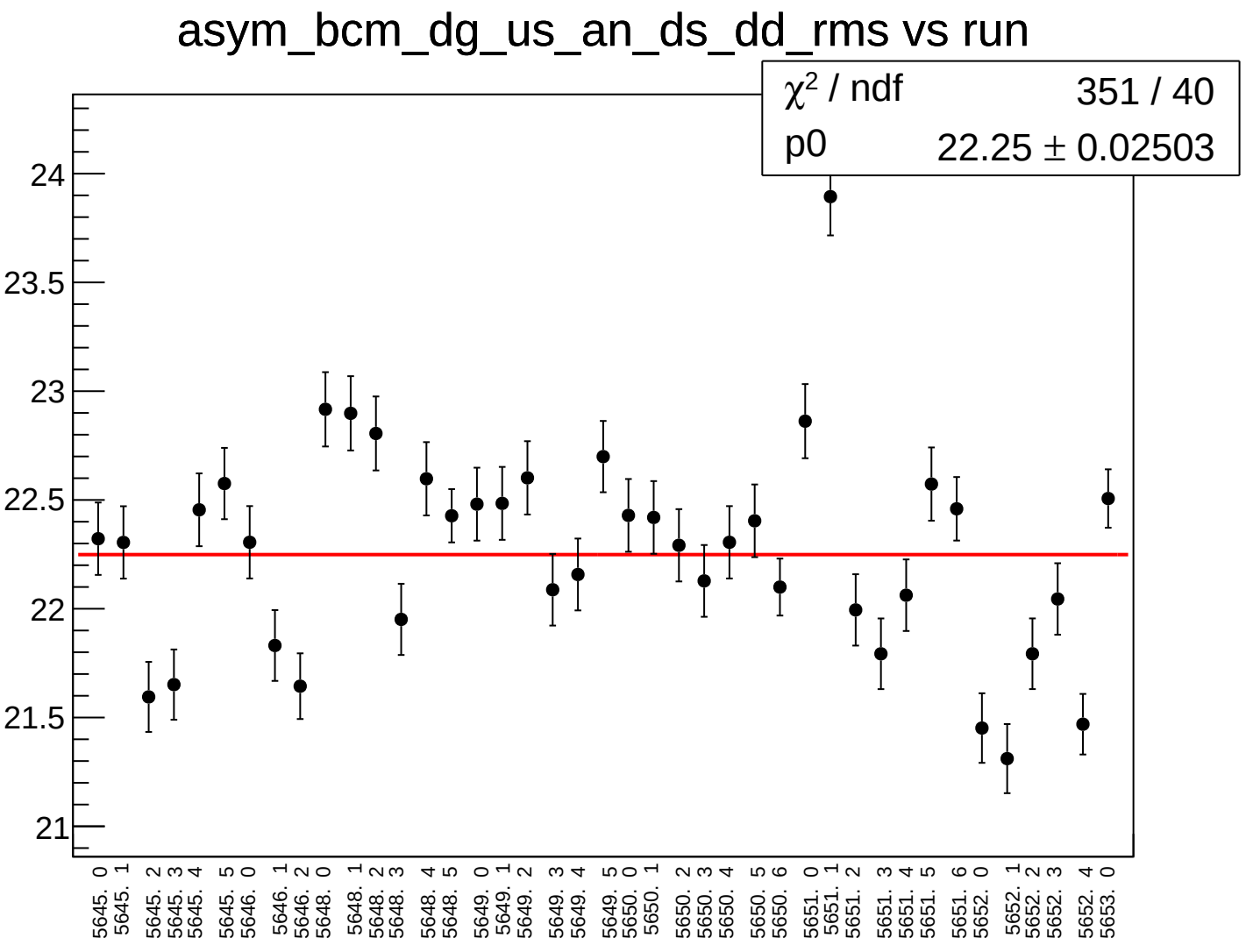

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 6.258 / 40
p0 38.06 ± 416.5
pull
Entries 41
Mean 60.07
Std Dev 0

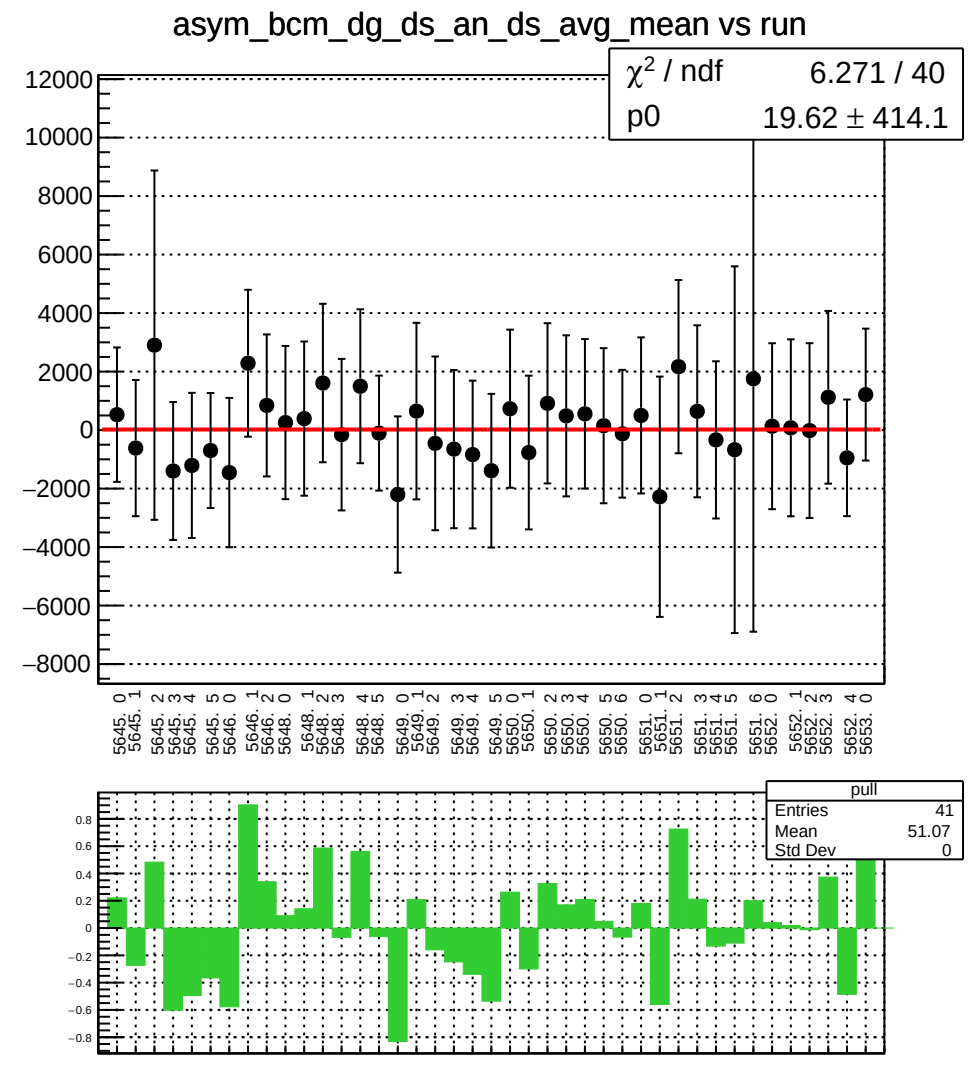

pull1D
Entries 41
Mean 0.01346
Std Dev 0.3905

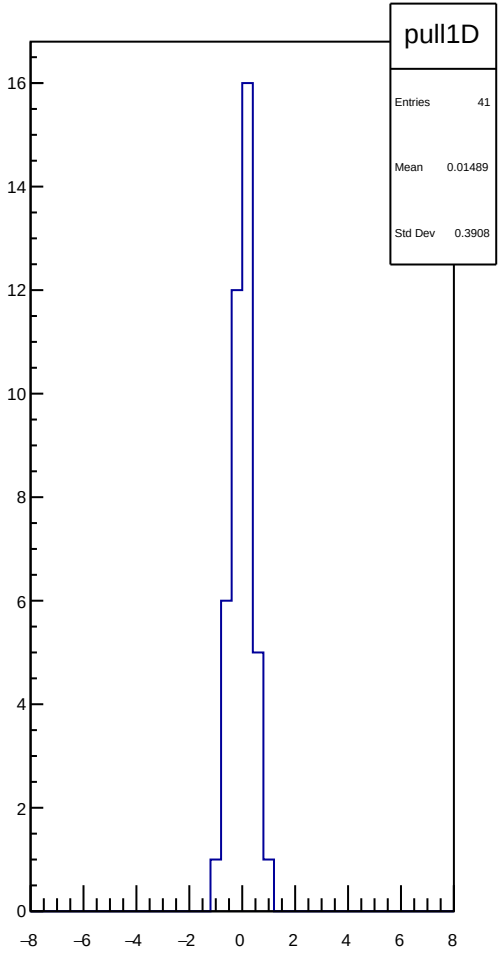

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.311e+04 / 40
p0 256.3 ± 0.2945
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

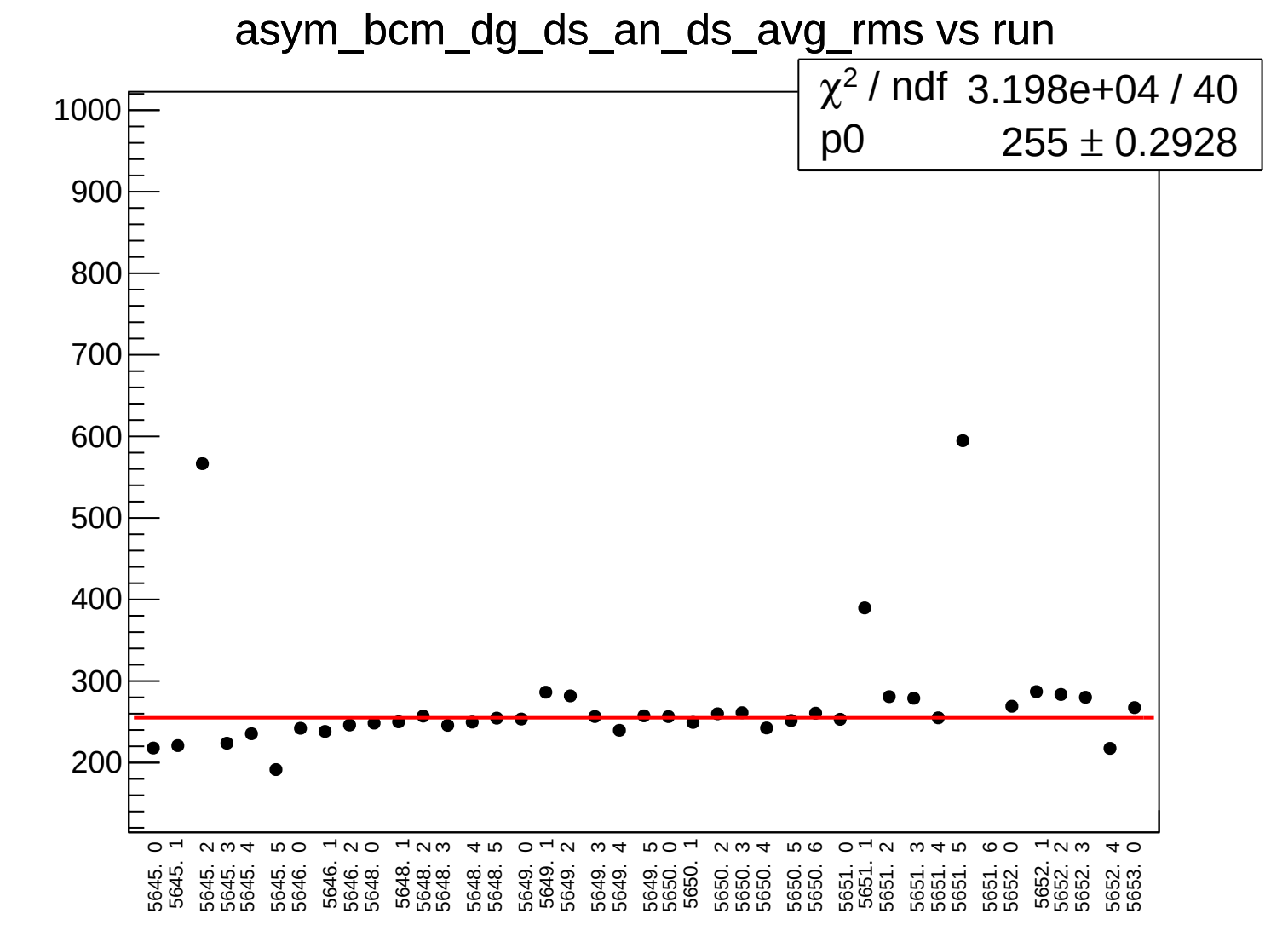

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 29.73 / 40
p0 14.16 ± 35.4
pull
Entries 41
Mean 752.9
Std Dev 0

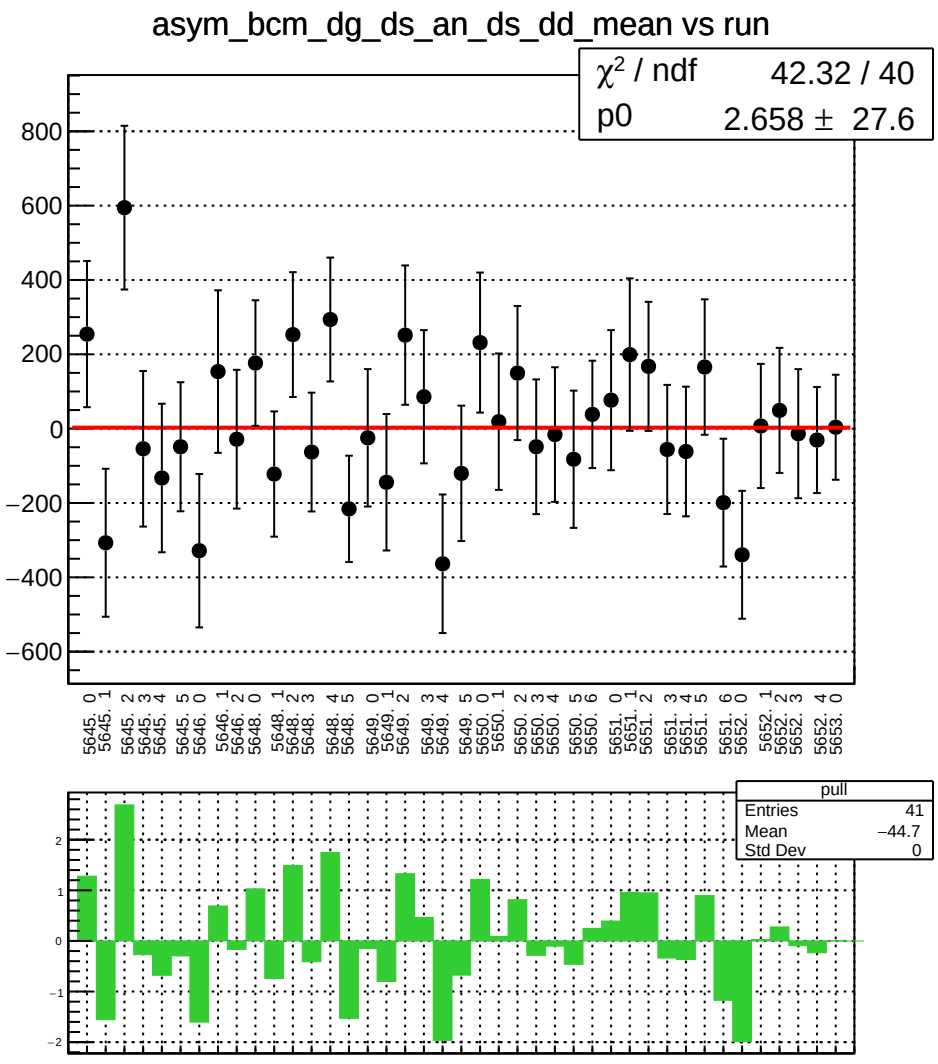

pull1D
Entries 41
Mean 0.0005446
Std Dev 0.8515

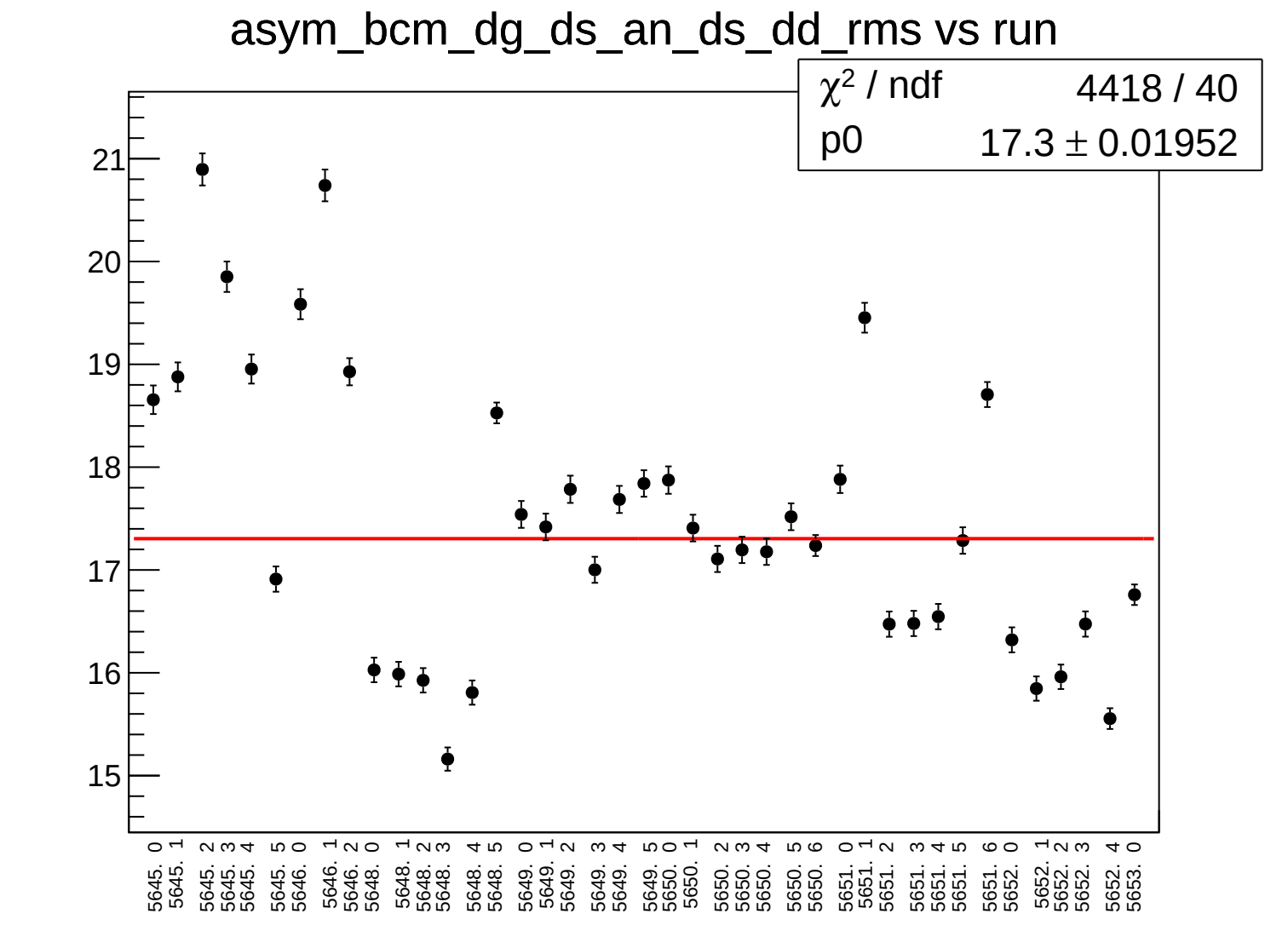

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 351 / 40
p0 22.25 ± 0.02503
24
23.5
23
22.5
22
21.5
21
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

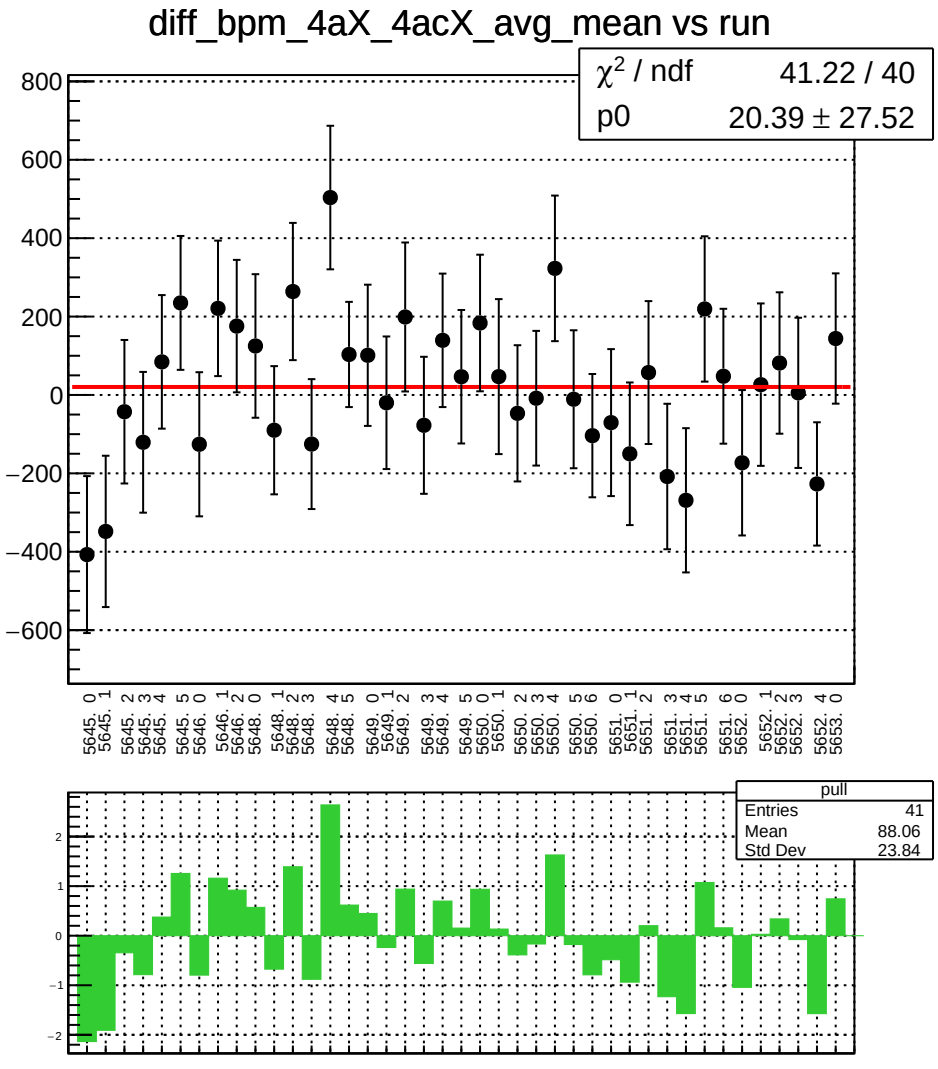

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 6.271 / 40
p0 19.62 ± 414.1
pull
Entries 41
Mean 51.07
Std Dev 0

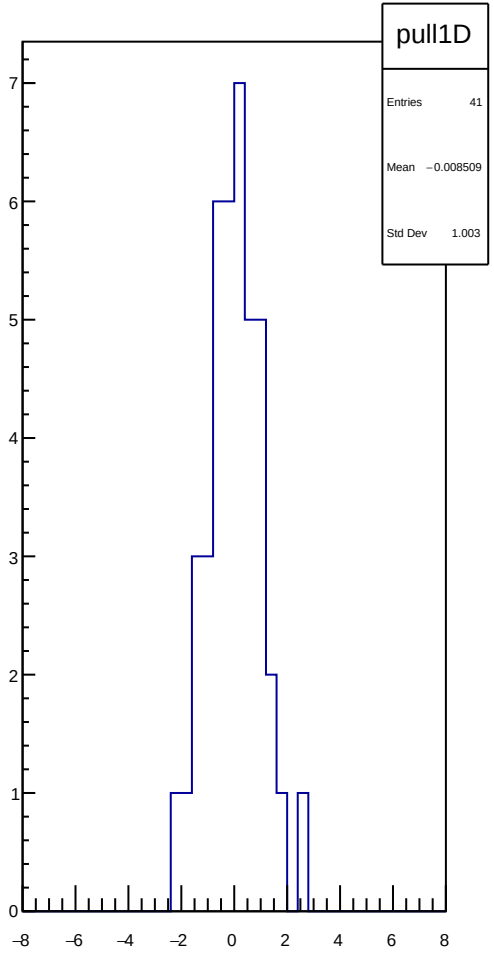

pull1D
Entries 41
Mean 0.01489
Std Dev 0.3908

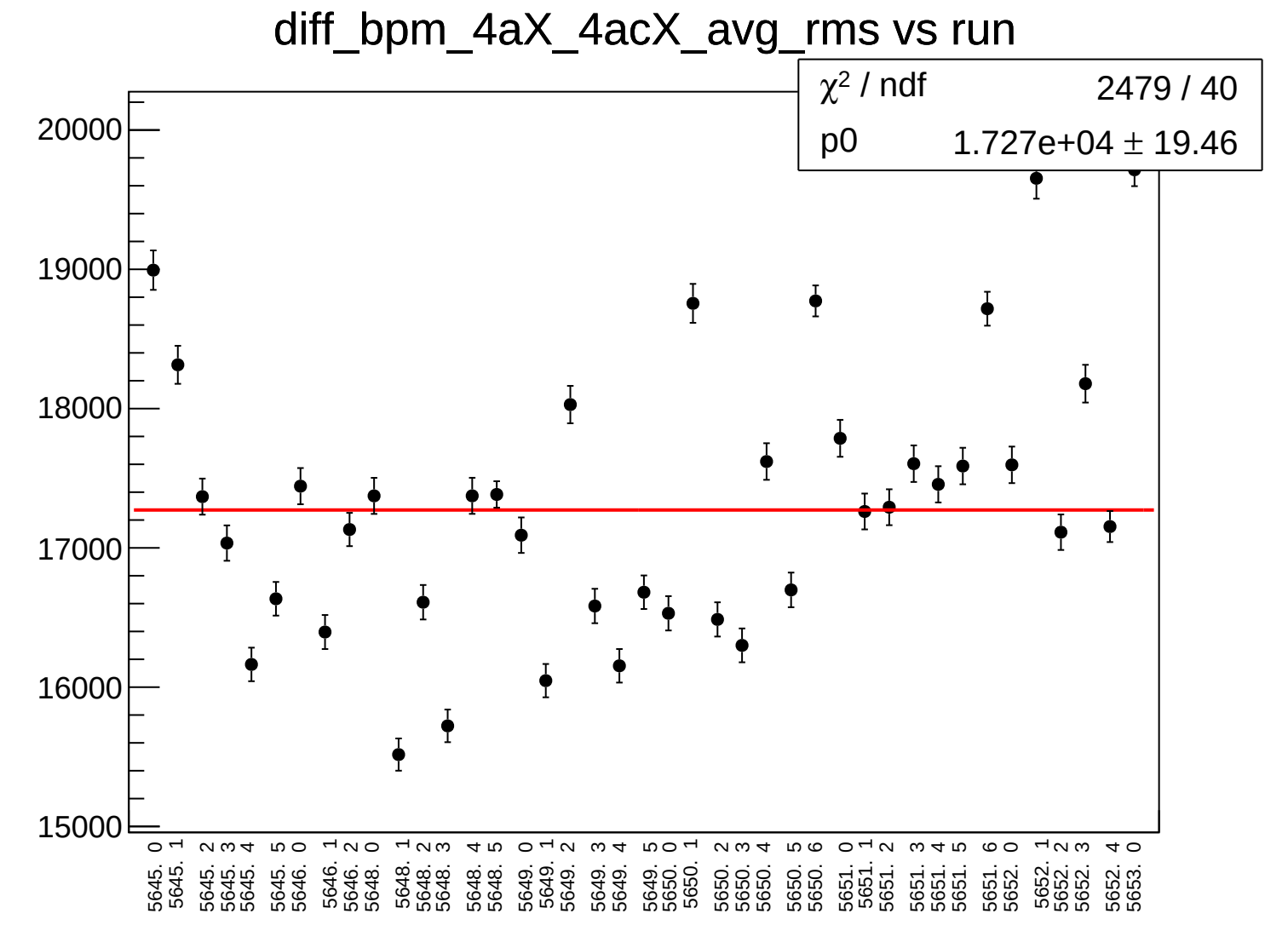

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.198e+04 / 40
p0 255 ± 0.2928
1000
900
800
700
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

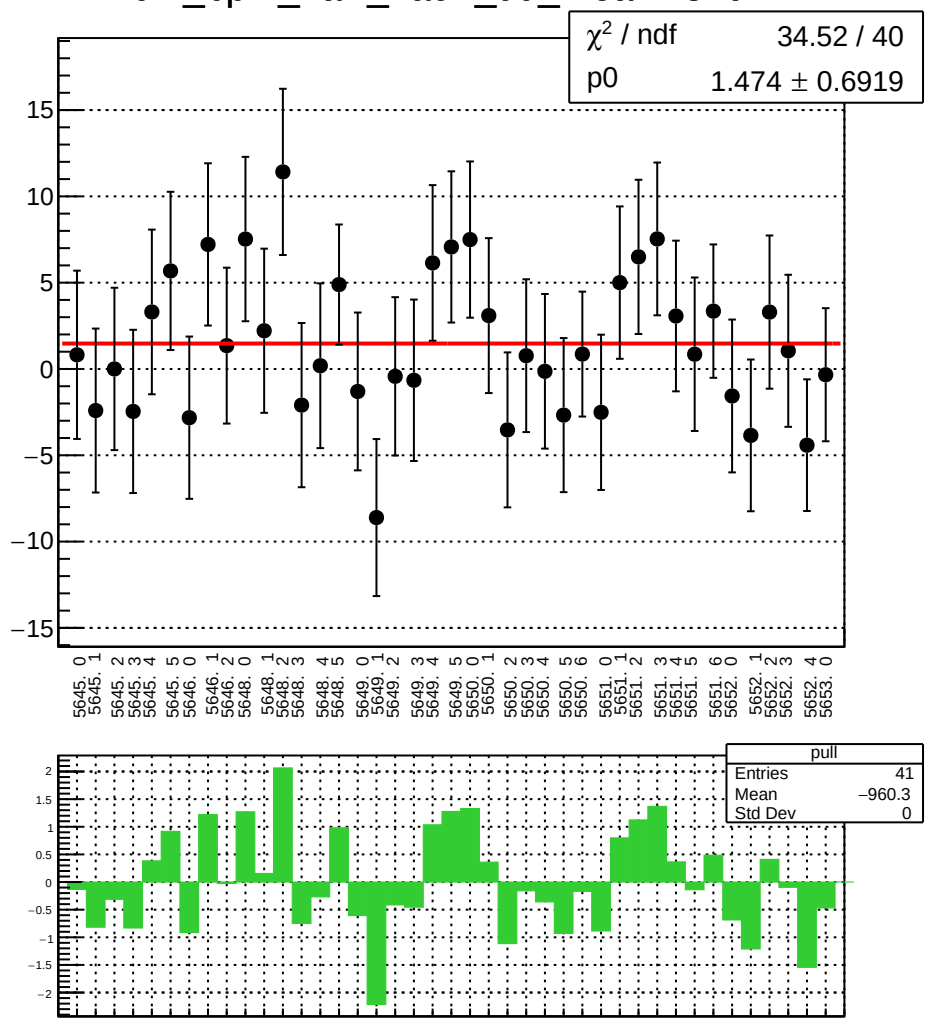

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 42.32 / 40
p0 2.658 ± 27.6
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −44.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01732
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

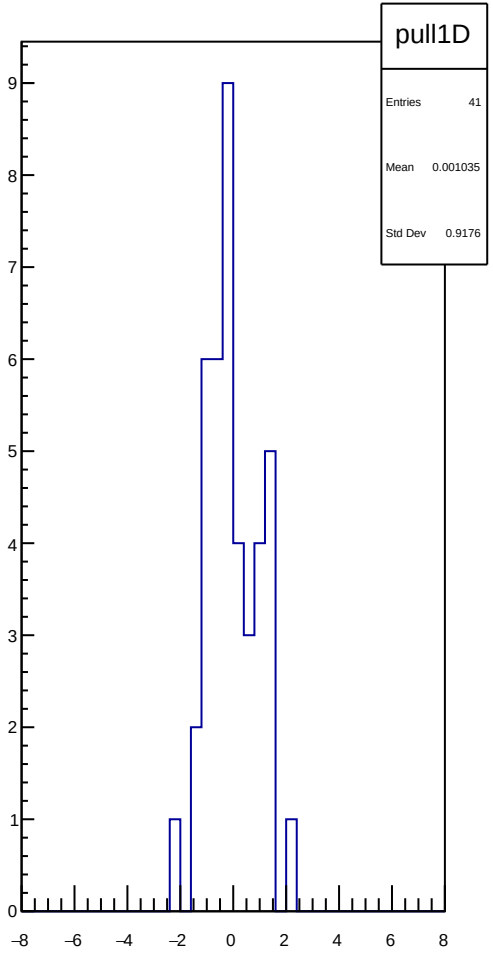

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4418 / 40
p0 17.3 ± 0.01952
21
20
19
18
17
16
15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

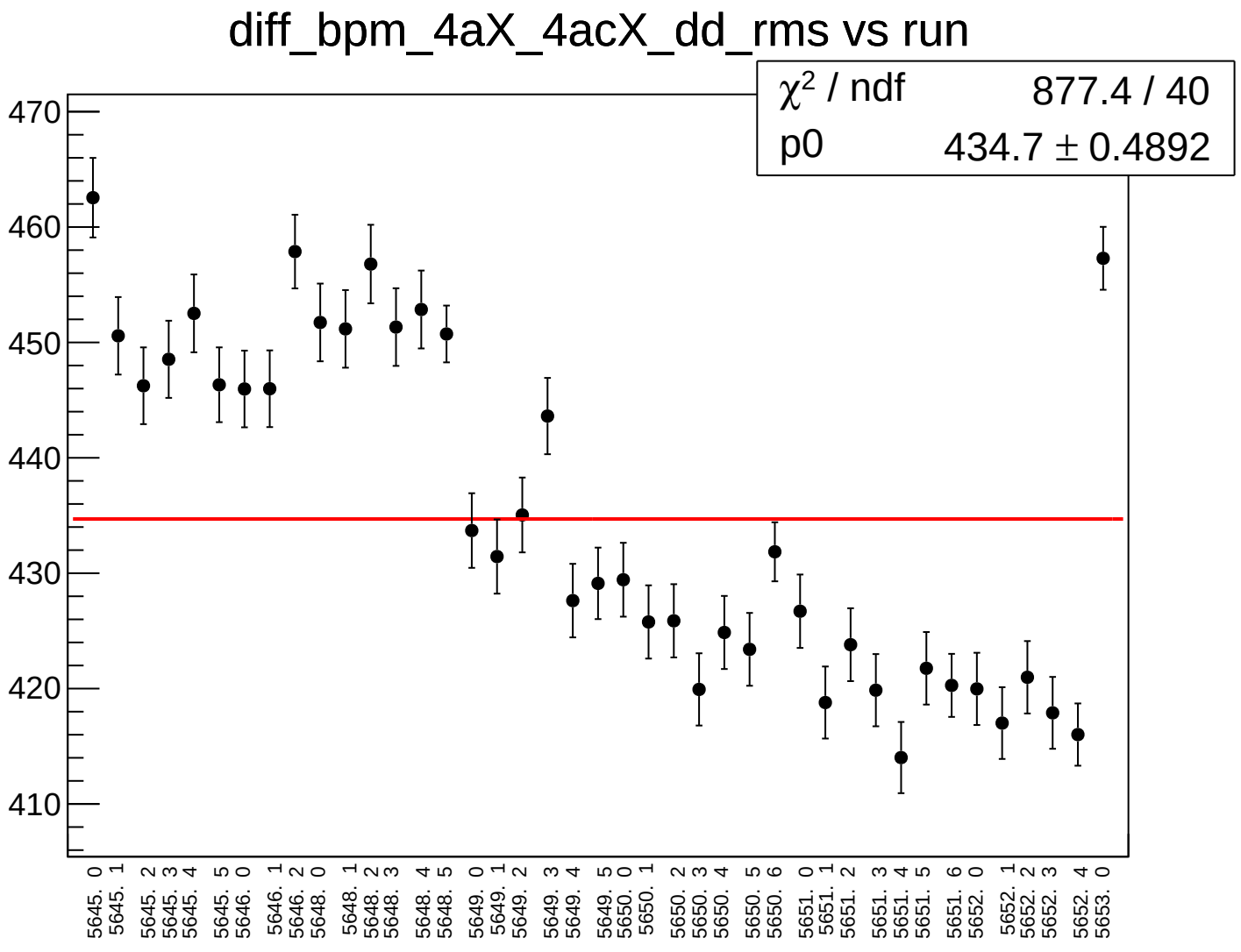

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 41.22 / 40
p0 20.39 ± 27.52
pull
Entries 41
Mean 88.06
Std Dev 23.84

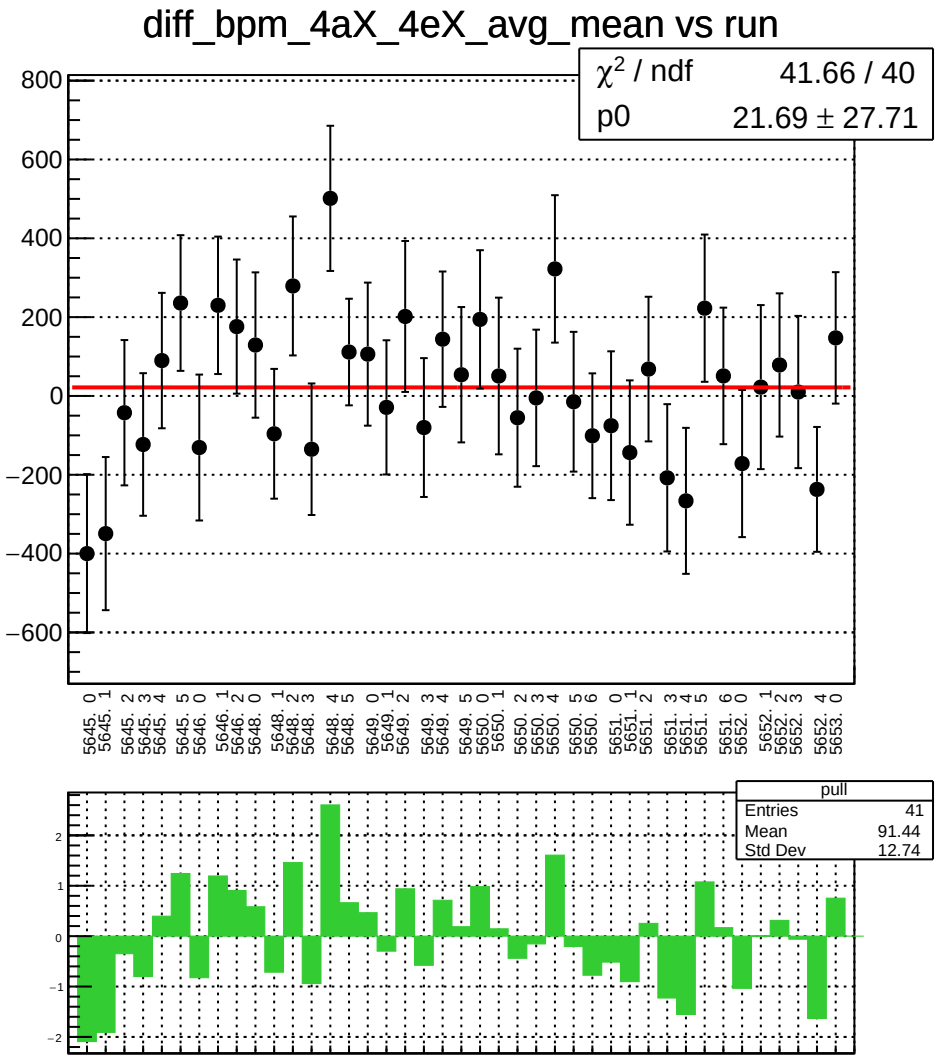

pull1D
Entries 41
Mean −0.008509
Std Dev 1.003

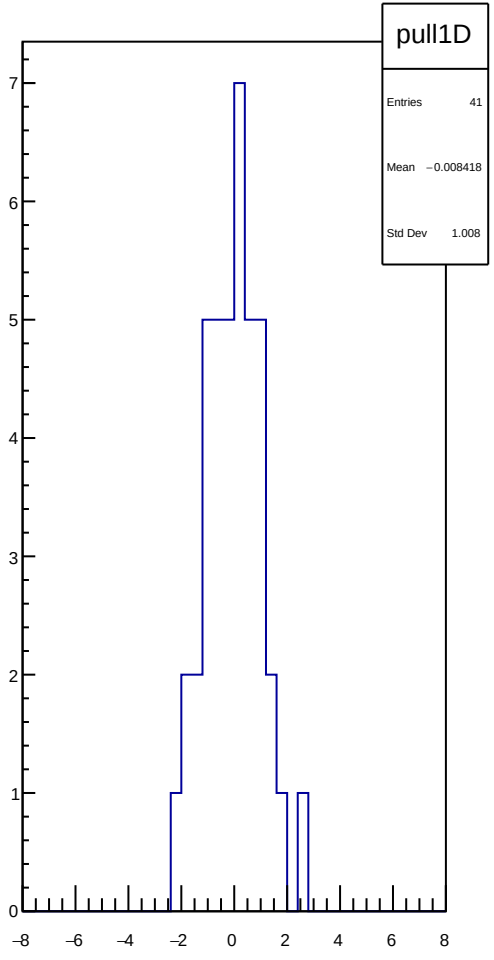

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2479 / 40
p0 1.727e+04 ± 19.46
20000
19000
18000
17000
16000
15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

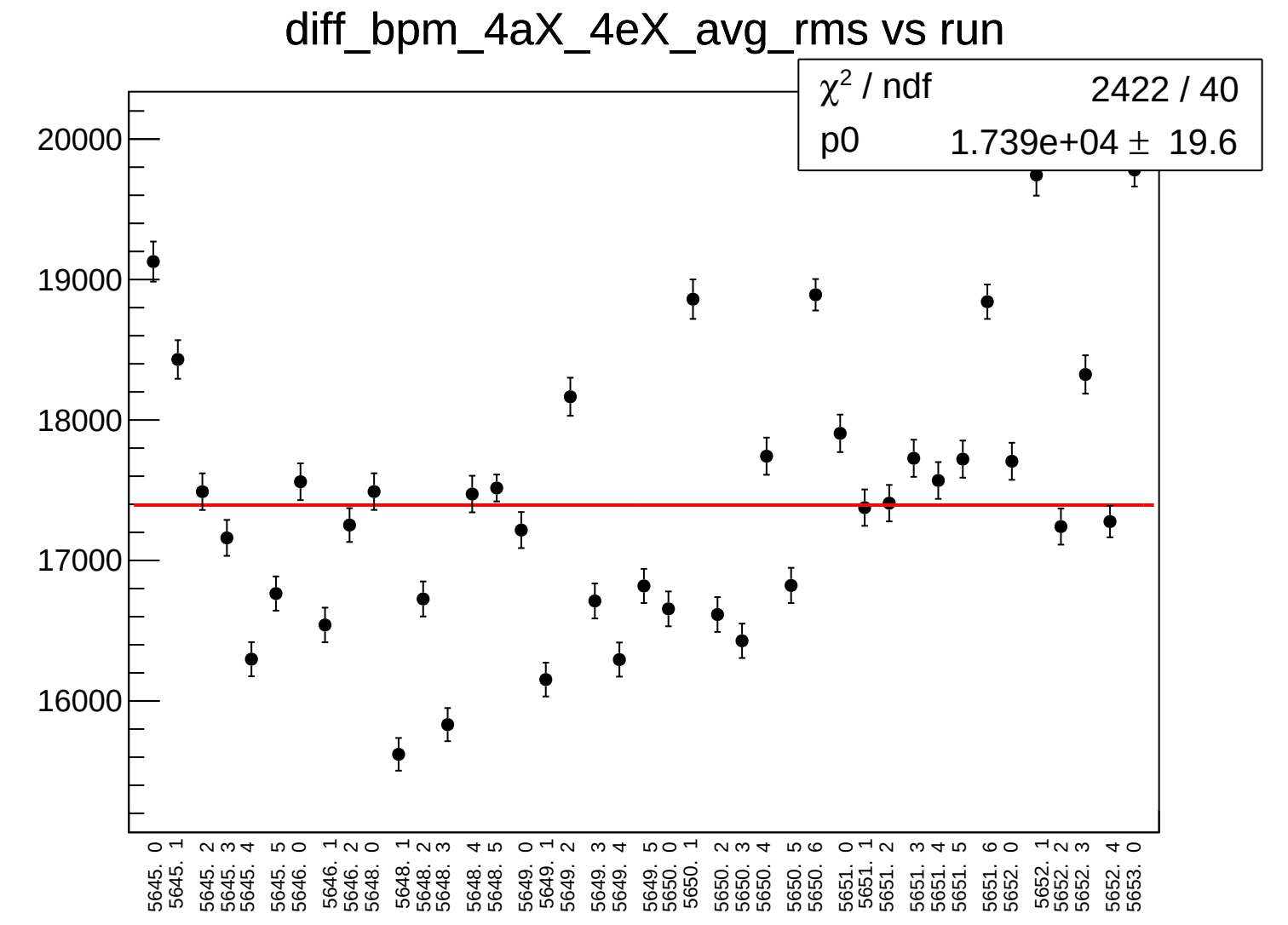

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 34.52 / 40
p0 1.474 ± 0.6919
pull
Entries 41
Mean −960.3
Std Dev 0

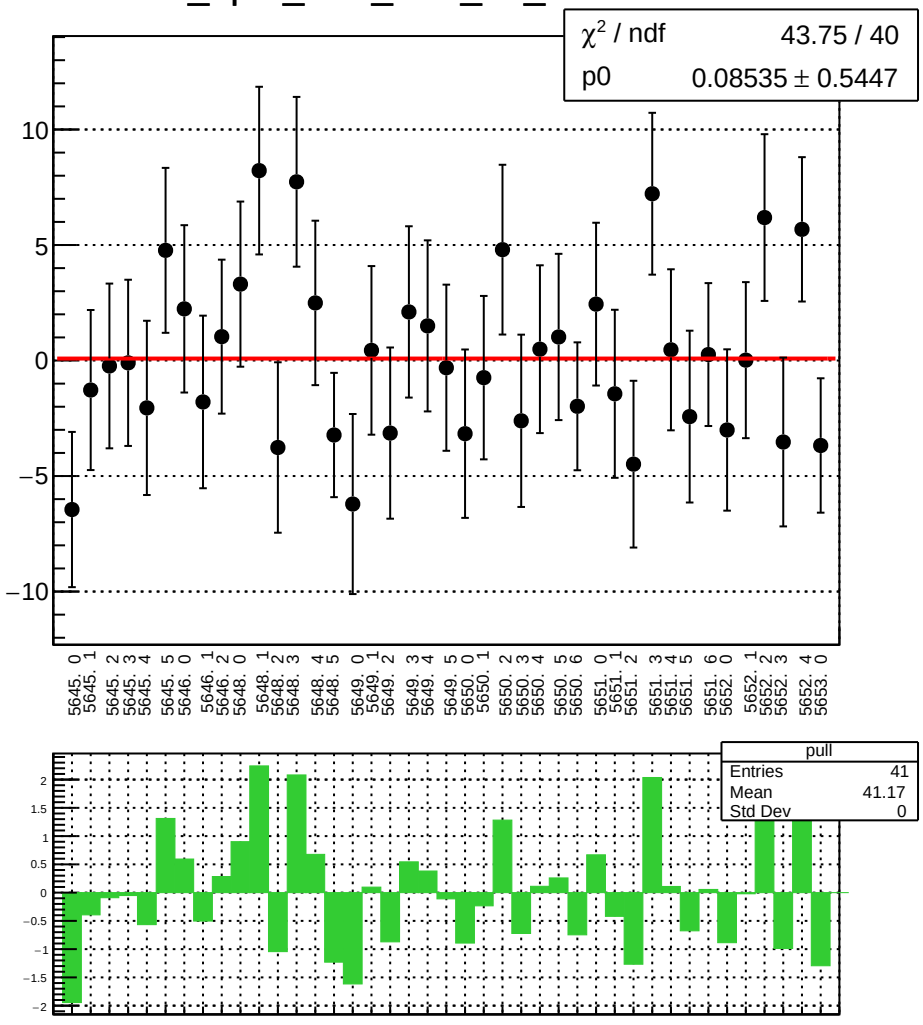

pull1D
Entries 41
Mean 0.001035
Std Dev 0.9176

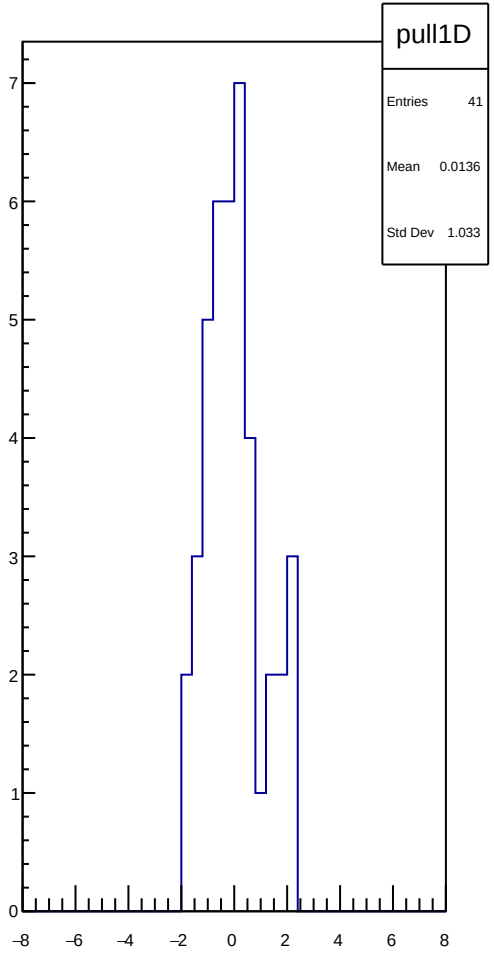

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 877.4 / 40
p0 434.7 ± 0.4892
470
460
450
440
430
420
410
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

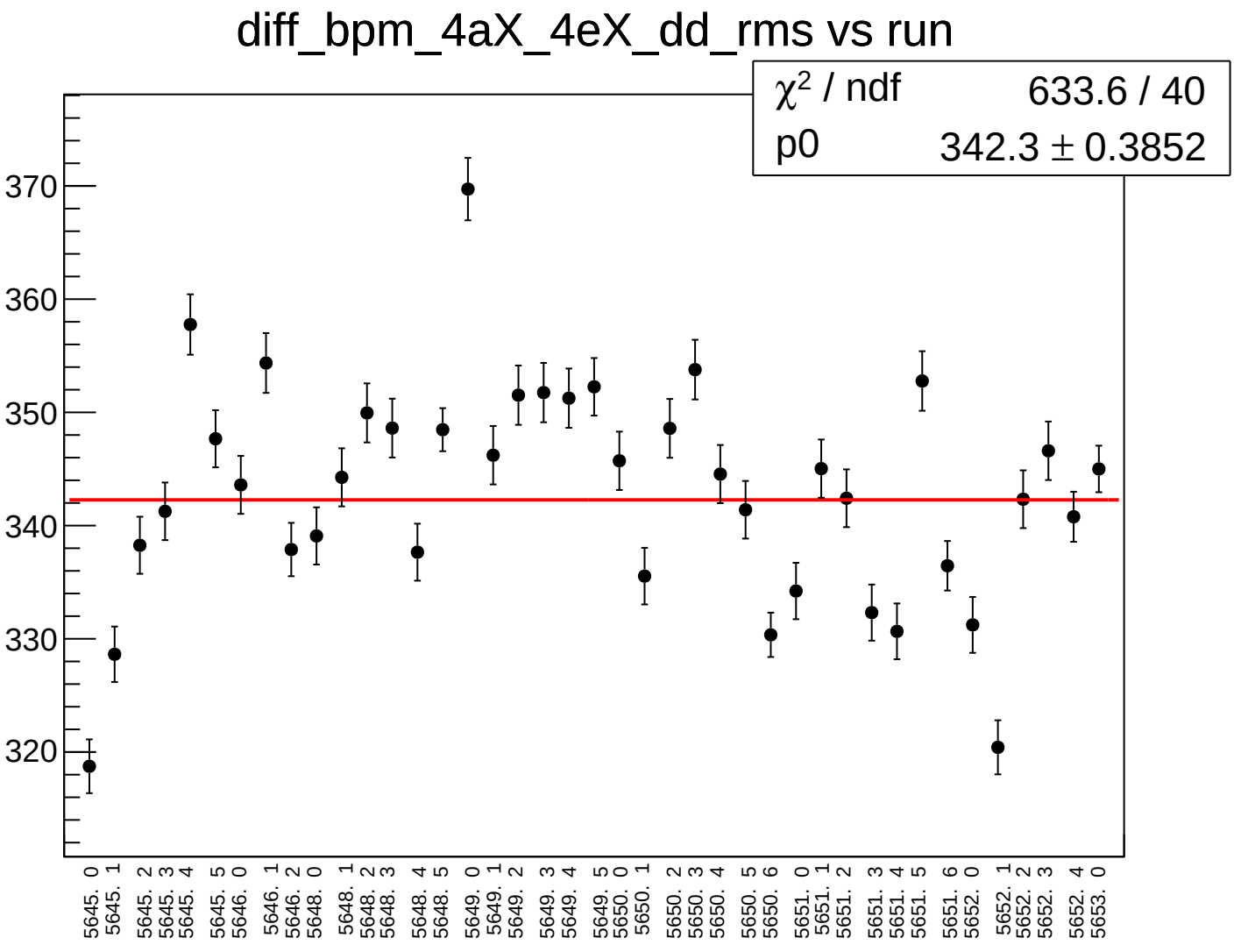

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 41.66 / 40
p0 21.69 ± 27.71
pull
Entries 41
Mean 91.44
Std Dev 12.74

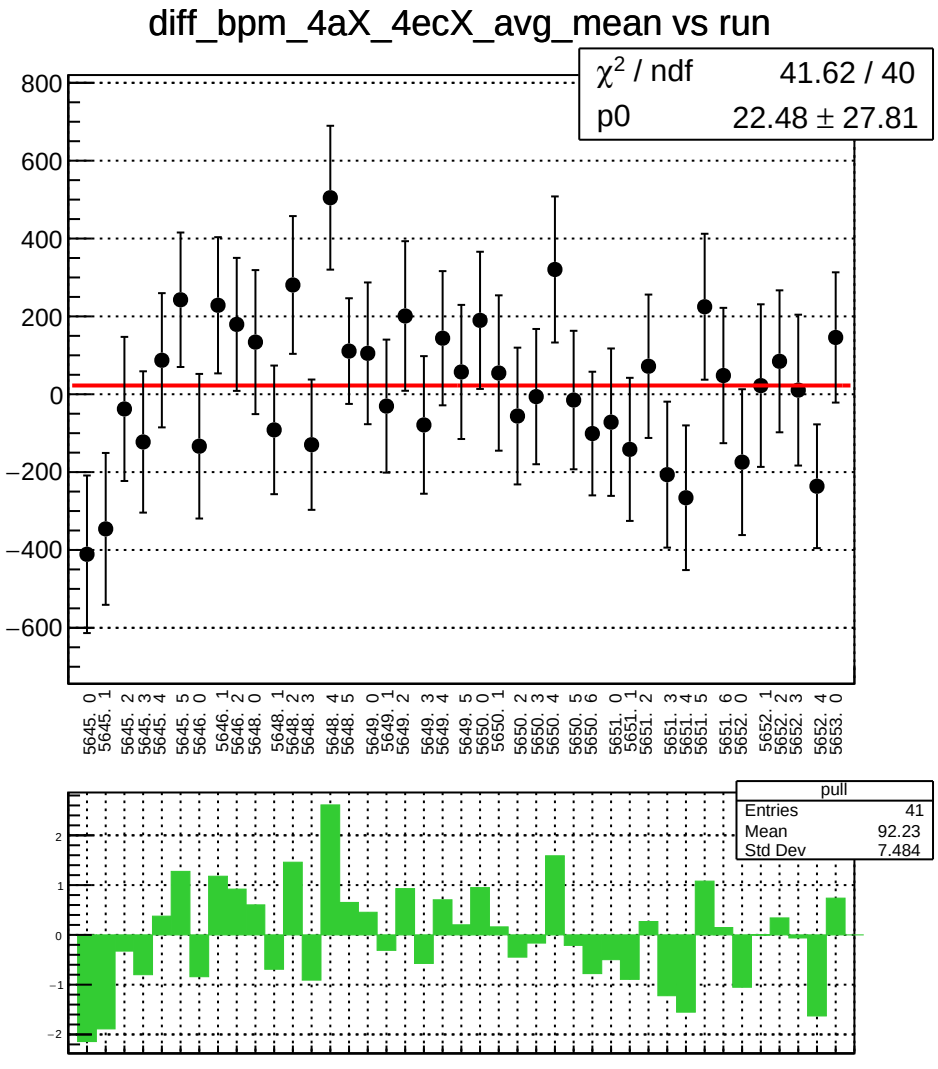

pull1D
Entries 41
Mean −0.008418
Std Dev 1.008

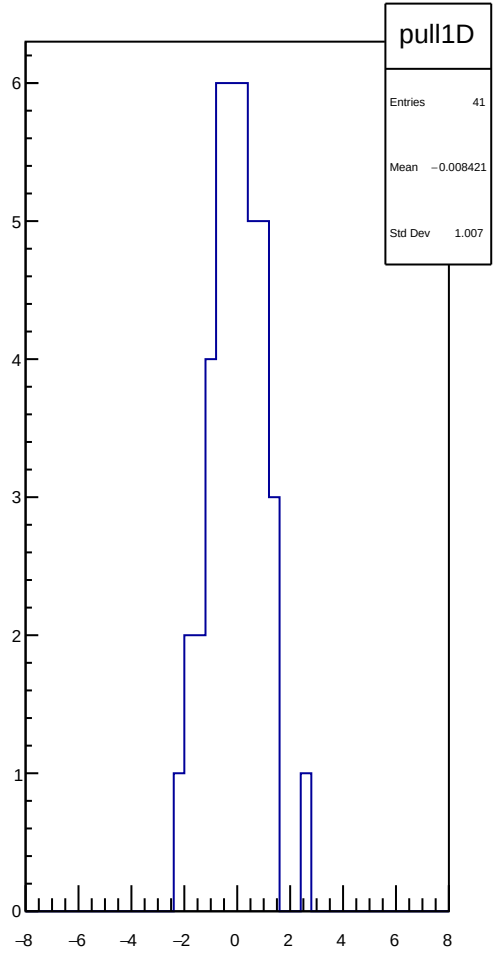

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2422 / 40
p0 1.739e+04 ± 19.6
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

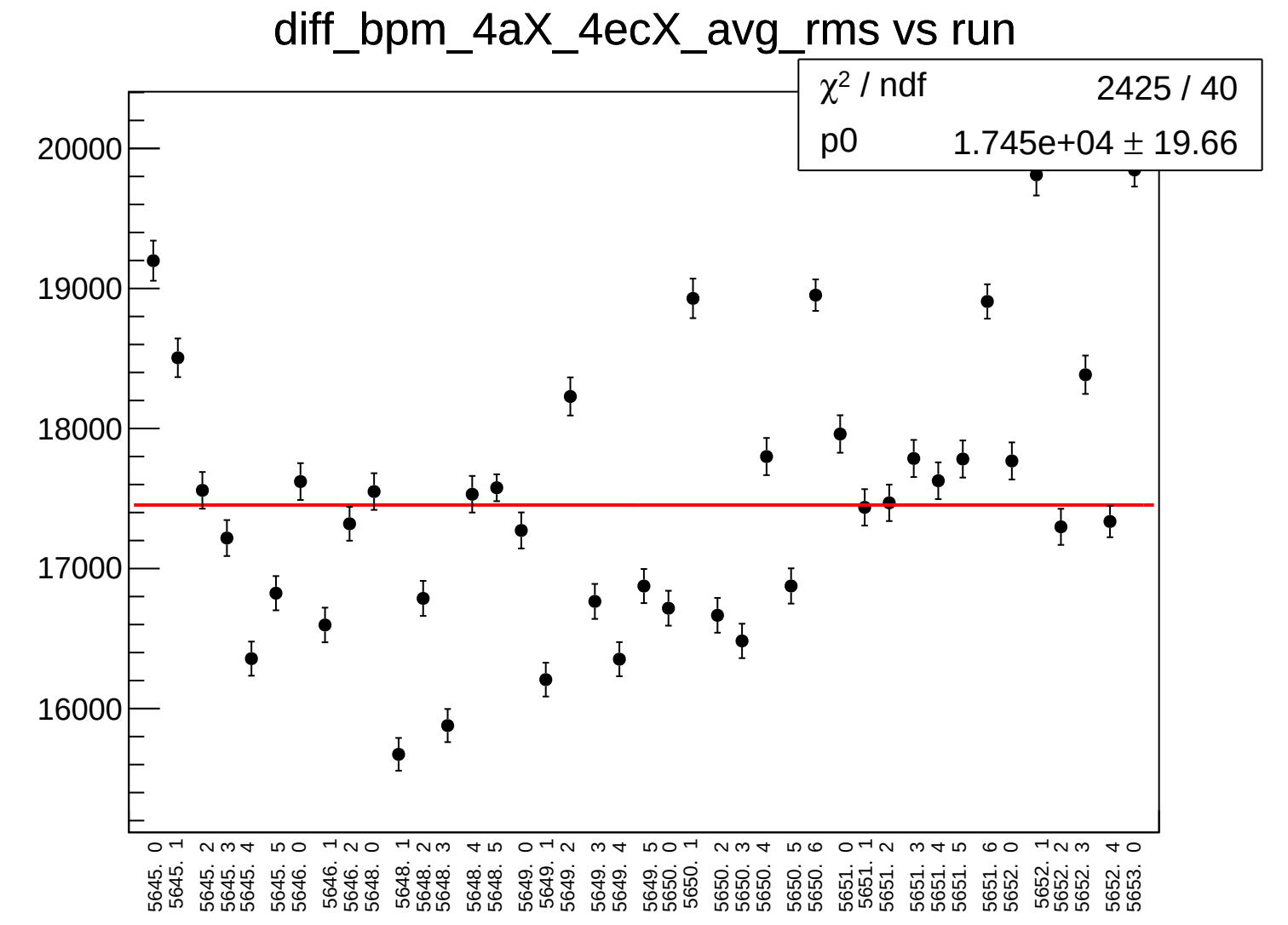

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 43.75 / 40
p0 0.08535 ± 0.5447
pull
Entries 41
Mean 41.17
Std Dev 0

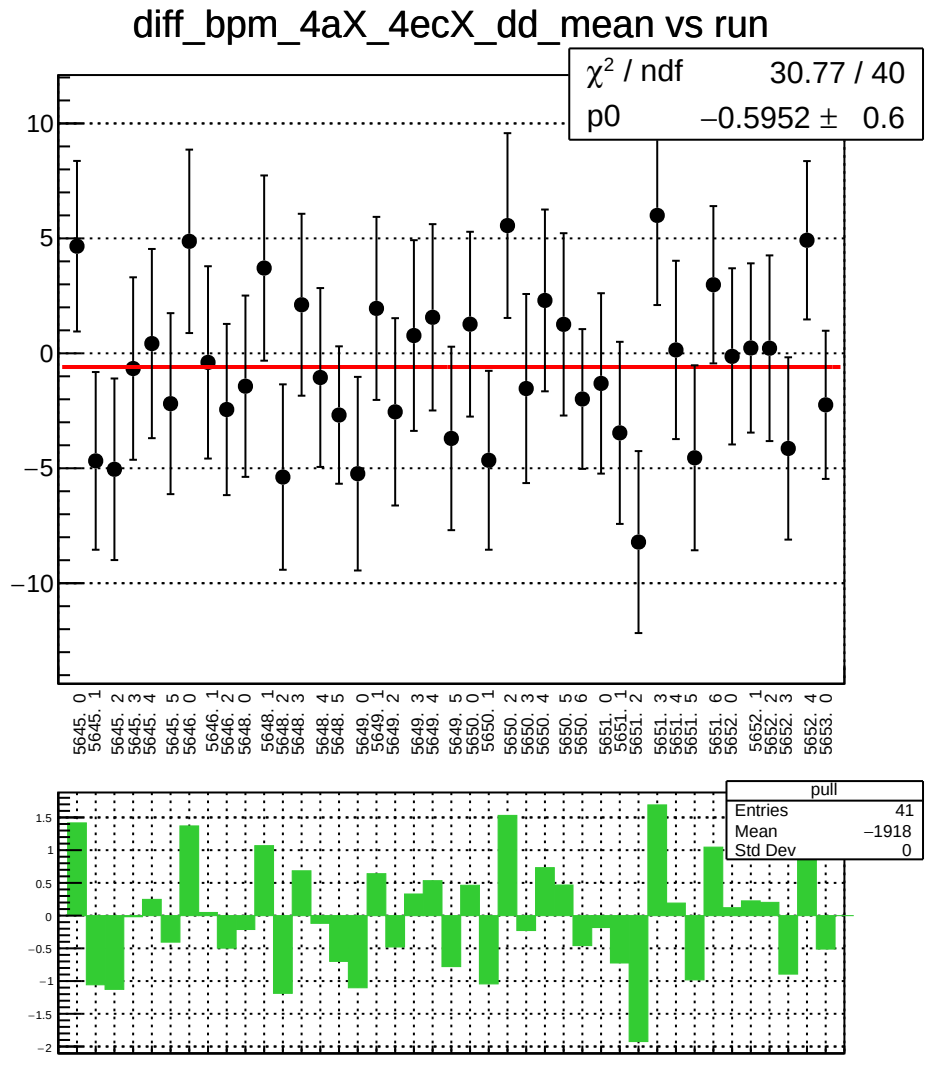

pull1D
Entries 41
Mean 0.0136
Std Dev 1.033

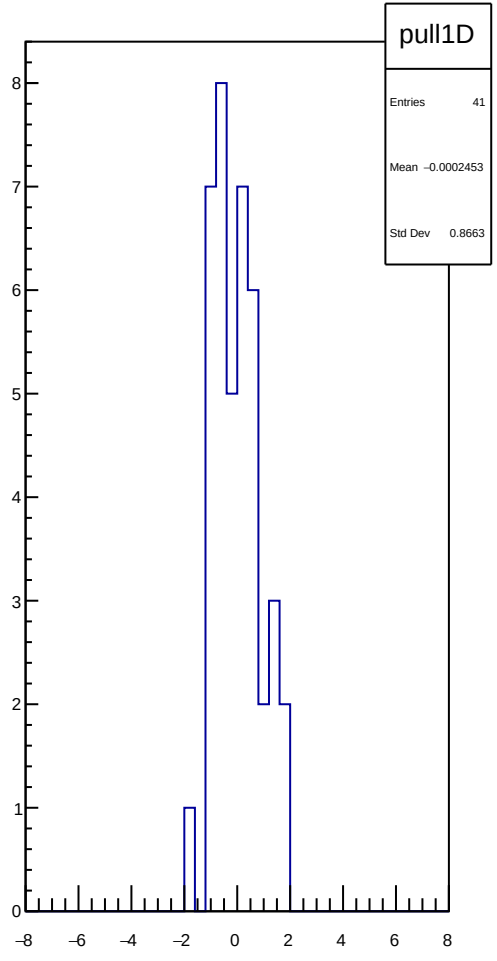

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 633.6 / 40
p0 342.3 ± 0.3852
370
360
350
340
330
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

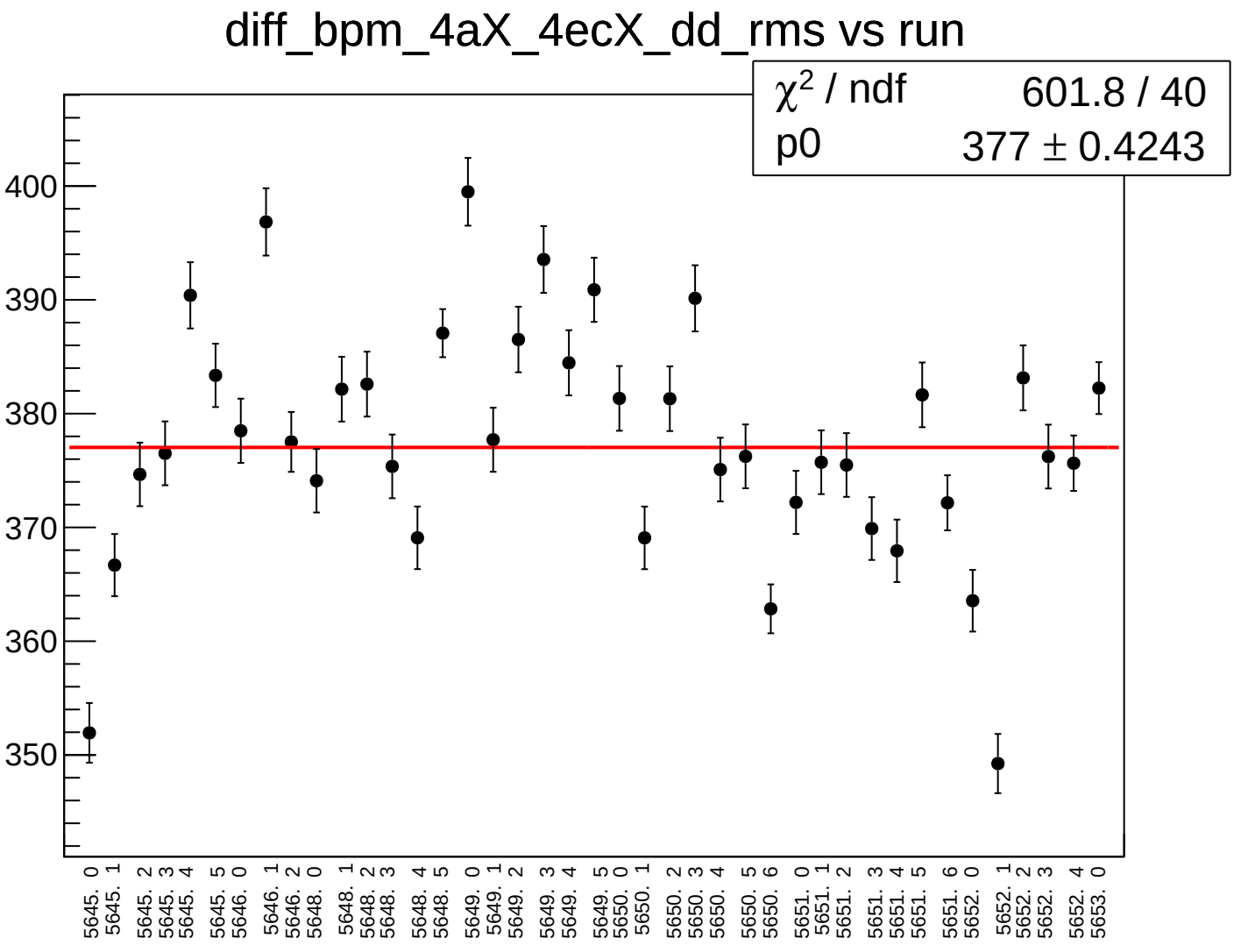

diff_bpm_4aX_4ecX_avg_mean vs run
χ^2 / ndf 41.62 / 40
p0 22.48 ± 27.81
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 92.23
Std Dev 7.484
2
1
0
−1
−2

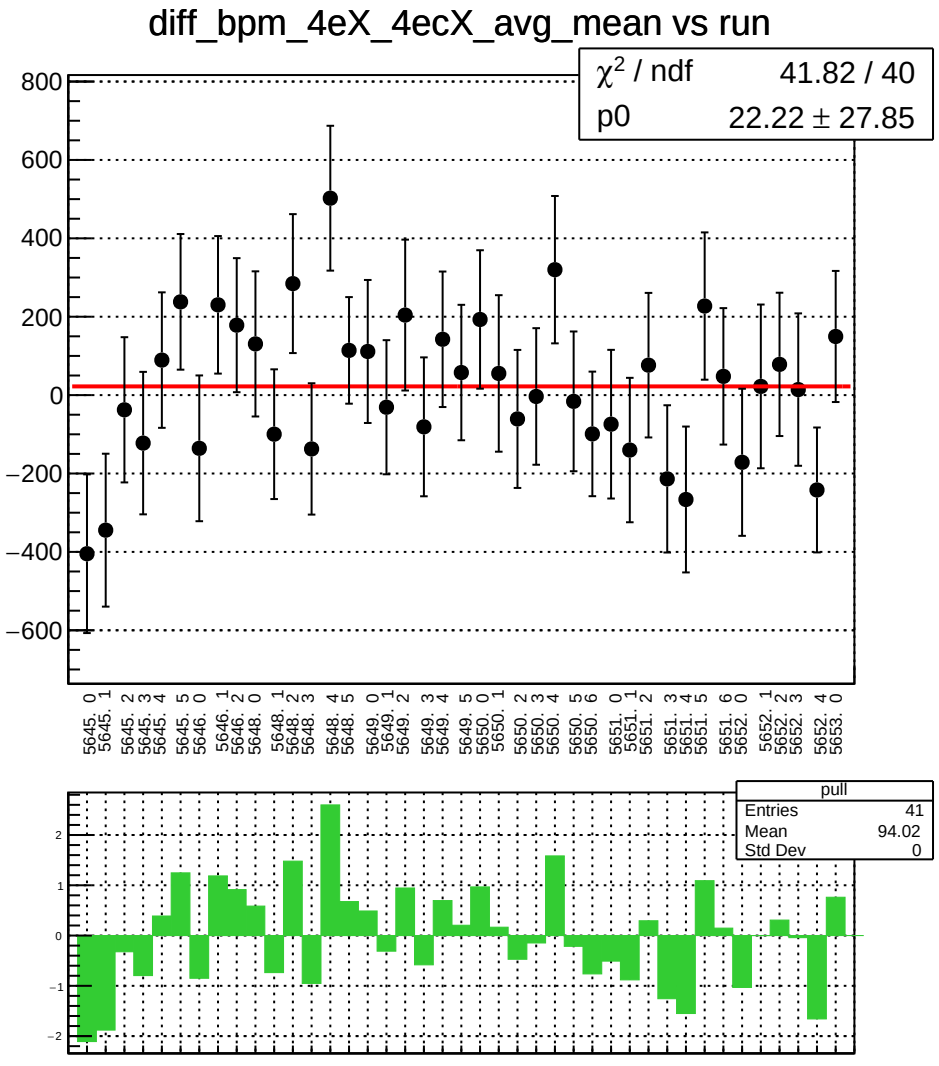

pull1D
Entries 41
Mean −0.008421
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

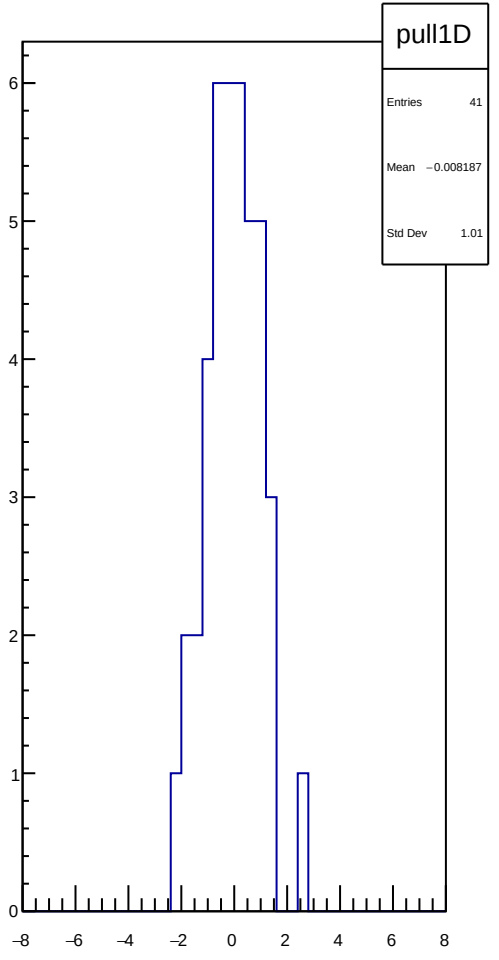

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2425 / 40
p0 1.745e+04 ± 19.66
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

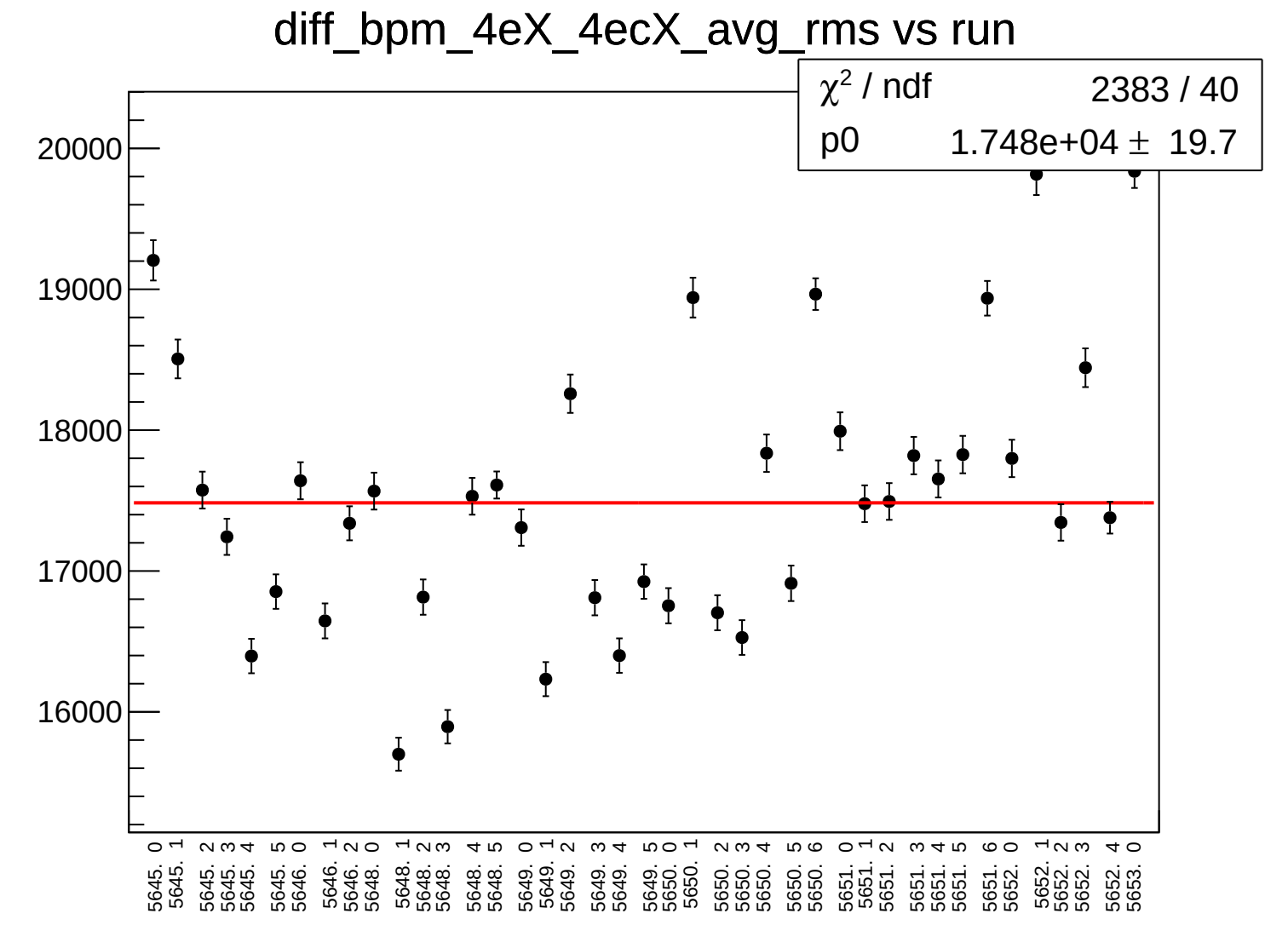

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 30.77 / 40
p0 −0.5952 ± 0.6
pull
Entries 41
Mean −1918
Std Dev 0

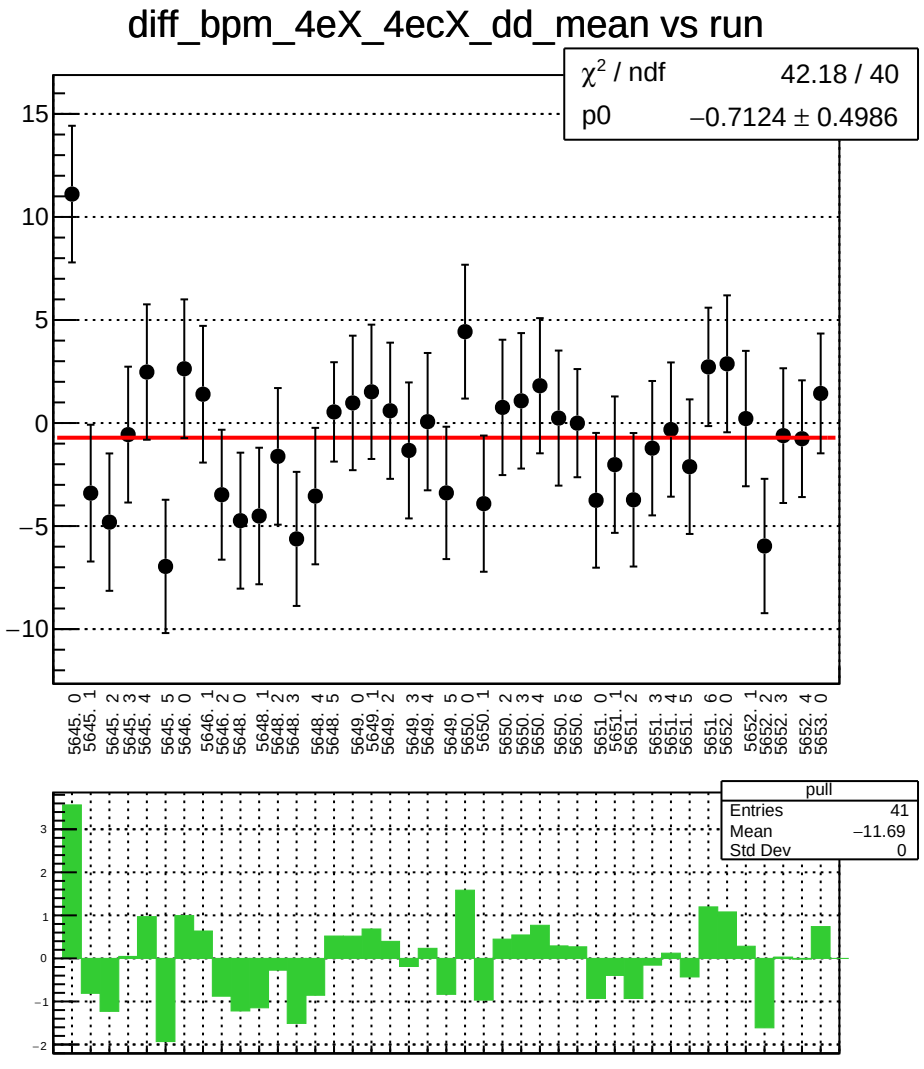

pull1D
Entries 41
Mean −0.0002453
Std Dev 0.8663

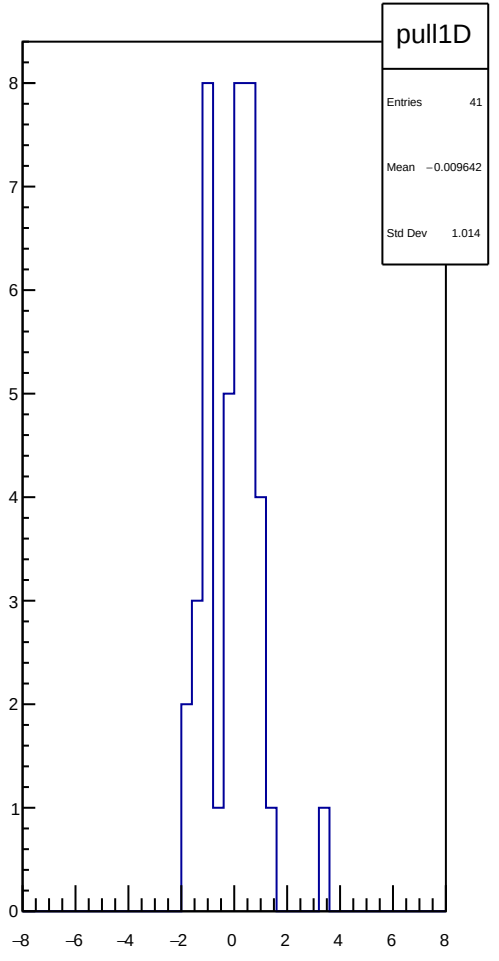

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 601.8 / 40
p0 377 ± 0.4243
400
390
380
370
360
350
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

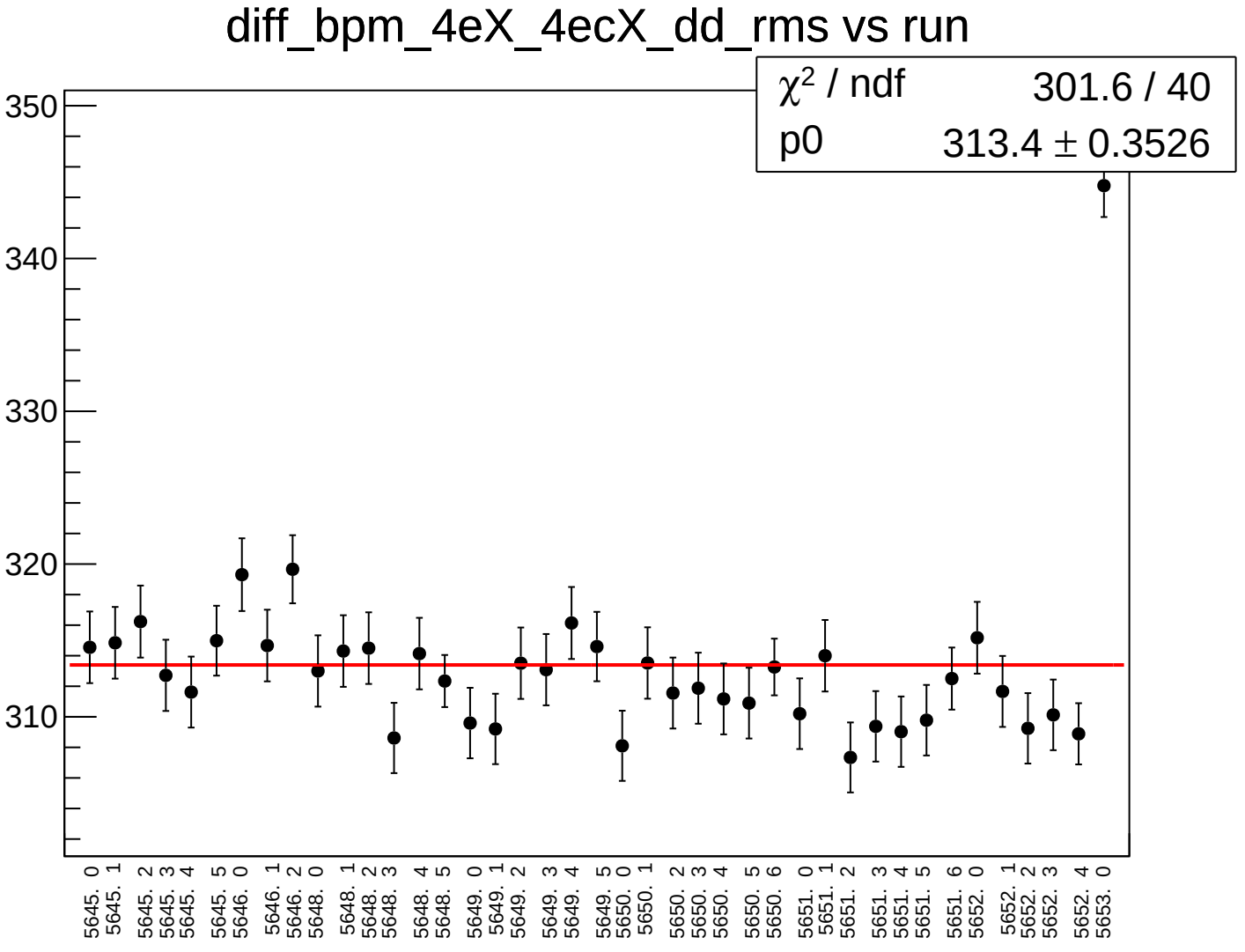

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 41.82 / 40
p0 22.22 ± 27.85
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 94.02
Std Dev 0
2
1
0
−1
−2

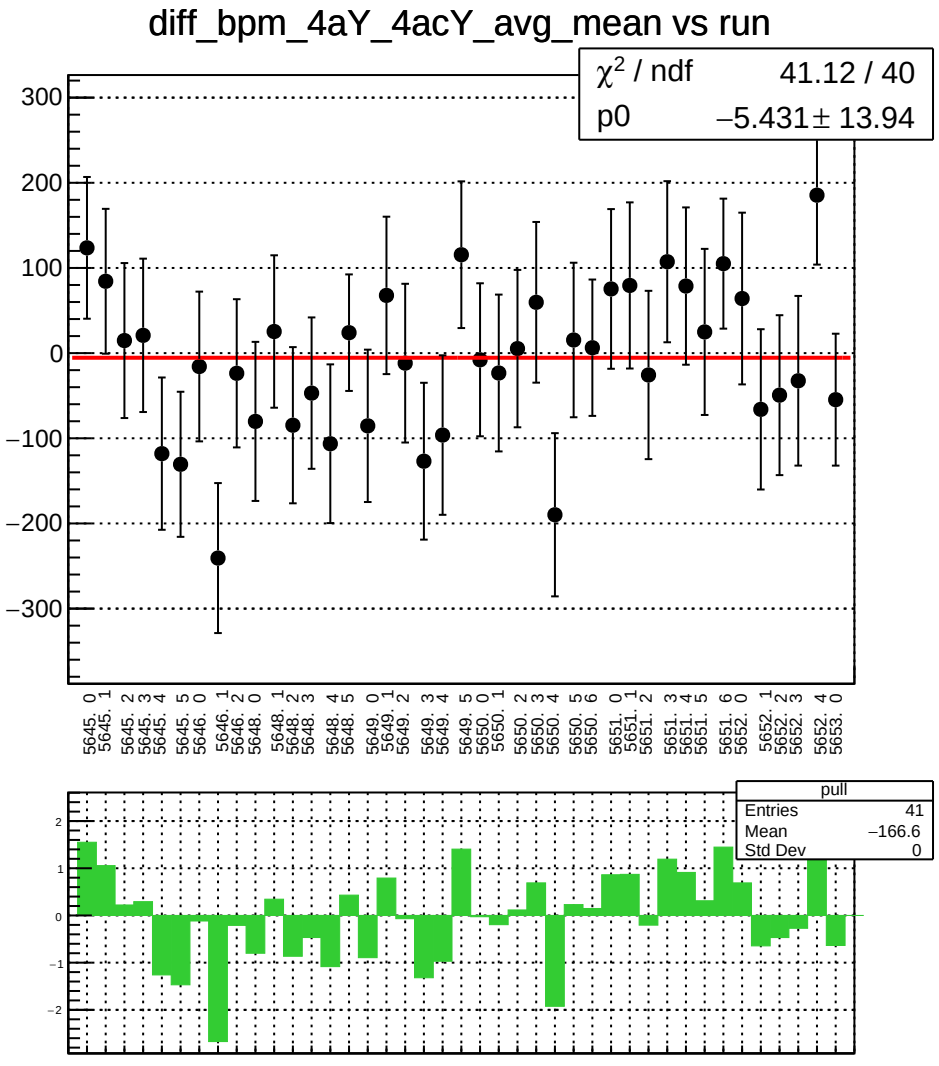

pull1D
Entries 41
Mean −0.008187
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

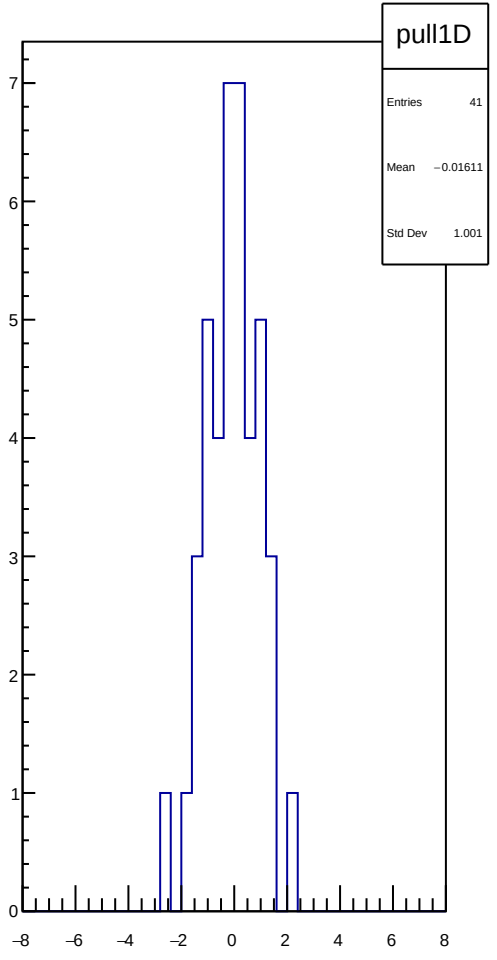

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2383 / 40
p0 1.748e+04 ± 19.7
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

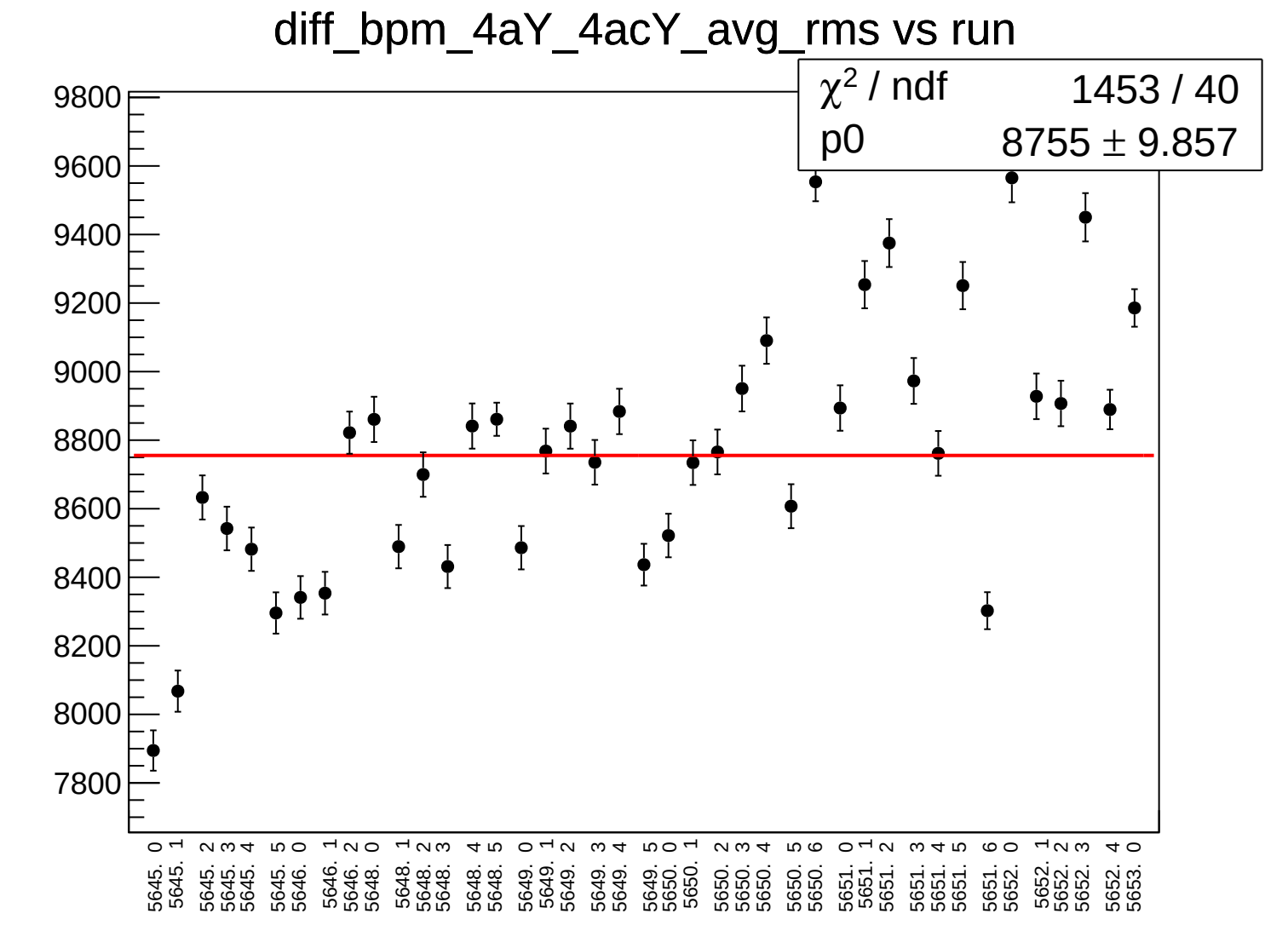

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 42.18 / 40
p0 −0.7124 ± 0.4986
15
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.69
Std Dev 0
3
2
1
0
−1
−2

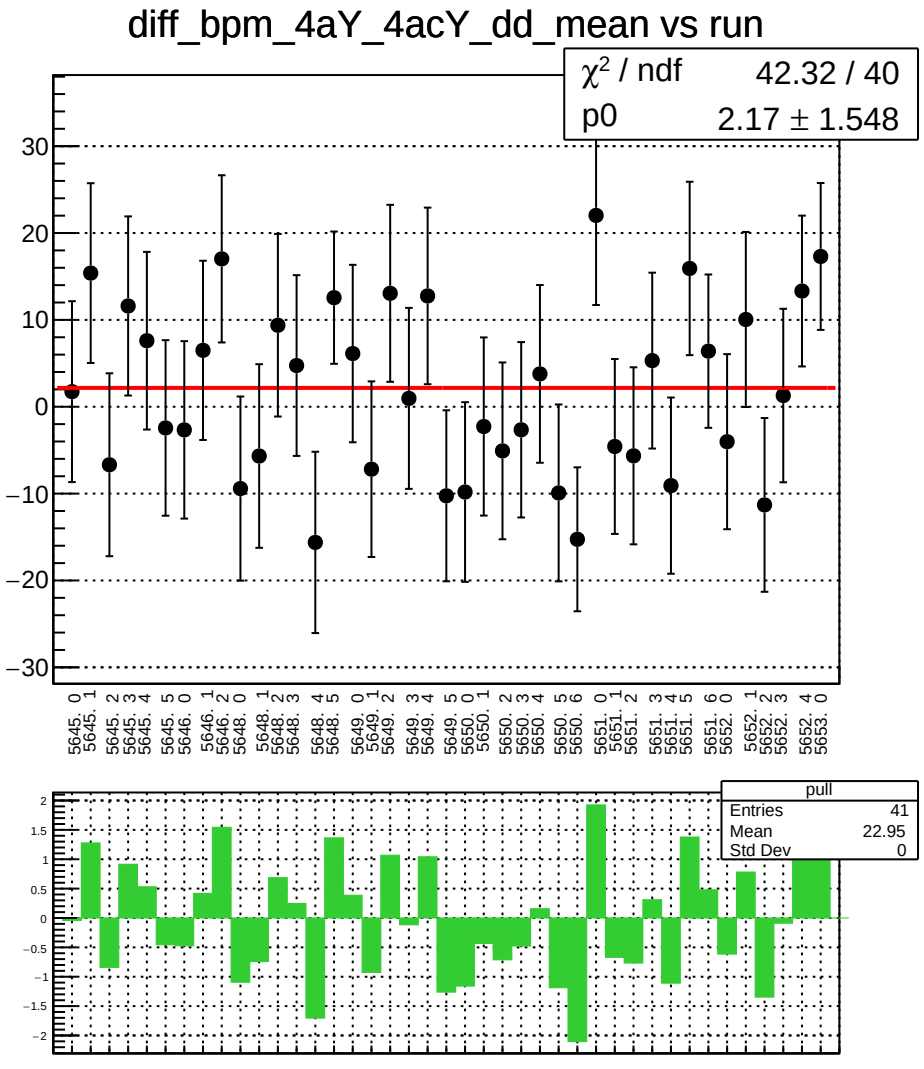

pull1D
Entries 41
Mean −0.009642
Std Dev 1.014
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

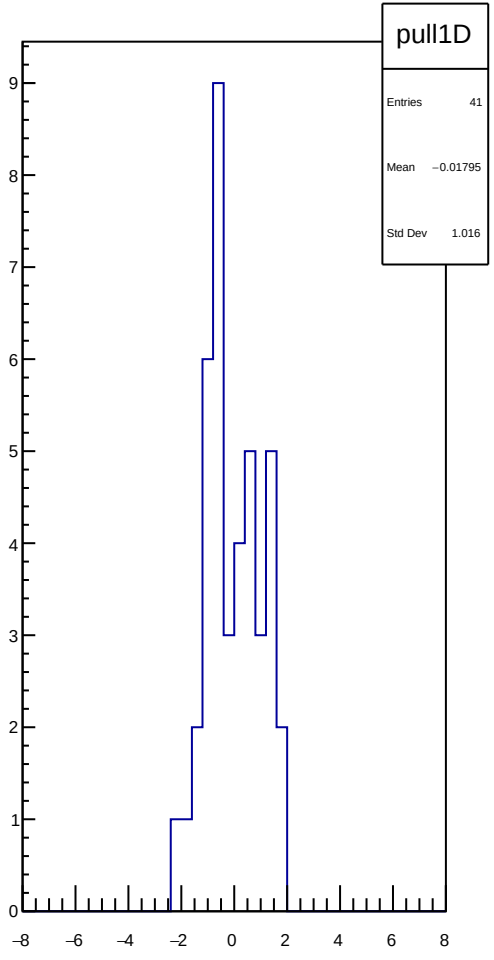

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 301.6 / 40
p0 313.4 ± 0.3526
350
340
330
320
310
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

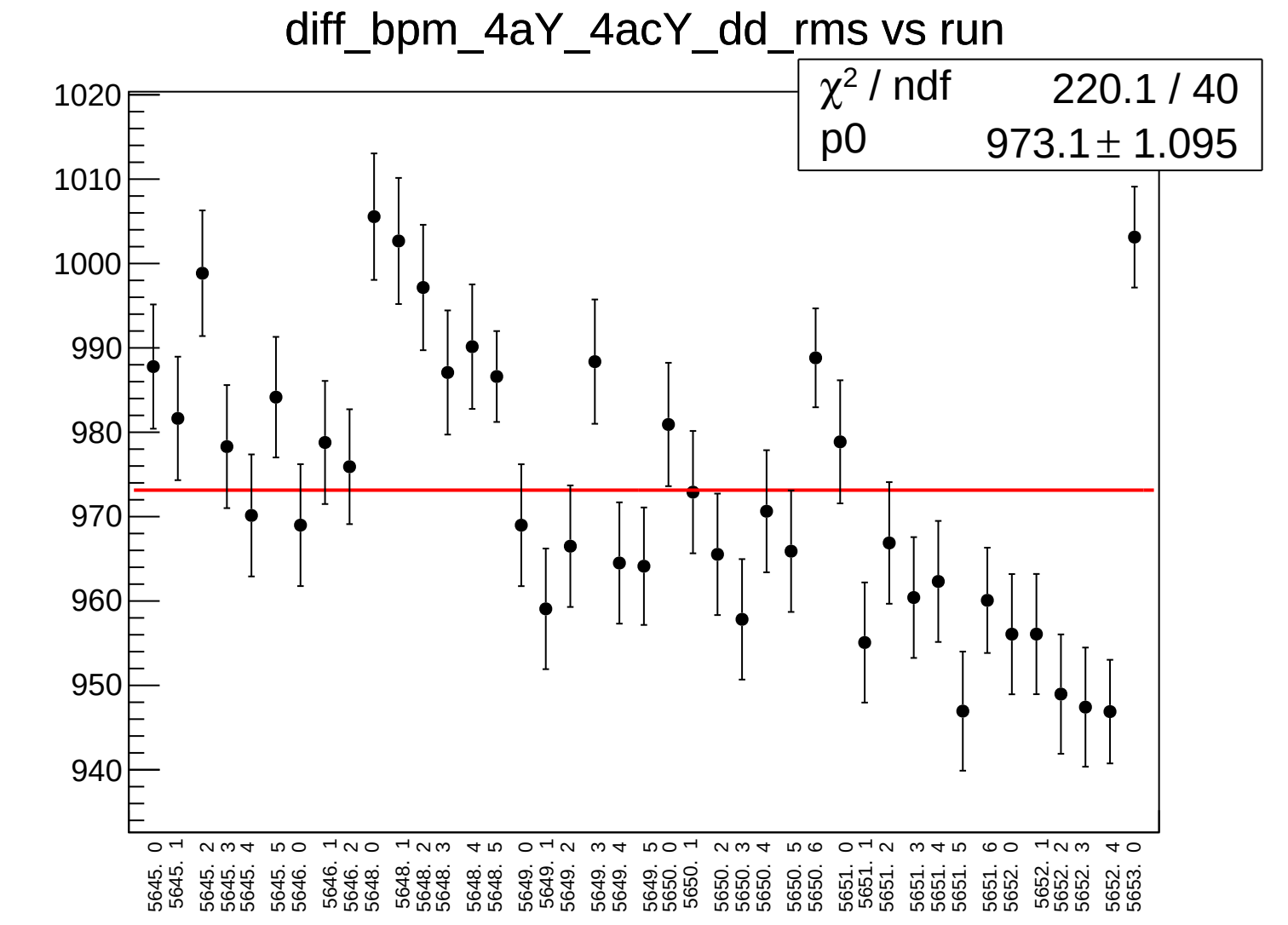

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 41.12 / 40
p0 −5.431 ± 13.94
300
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −166.6
Std Dev 0
2
1
0
−1
−2

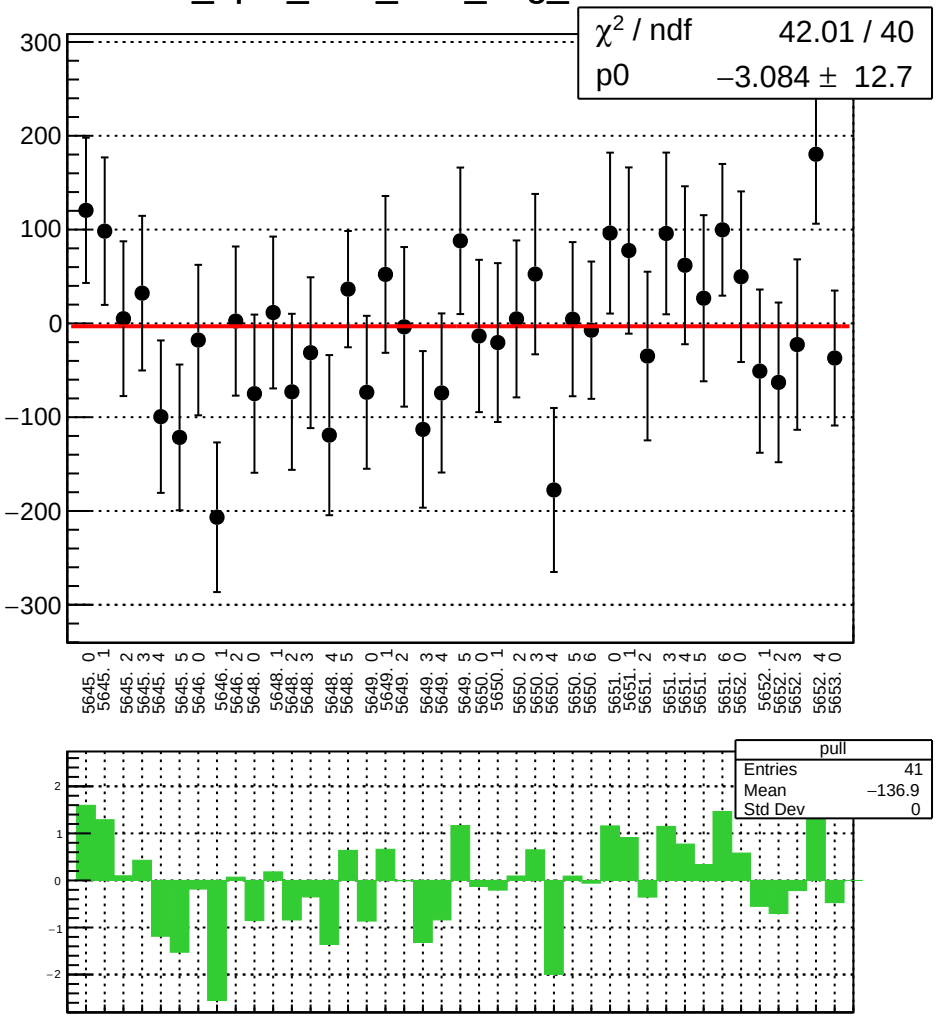

pull1D
Entries 41
Mean −0.01611
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

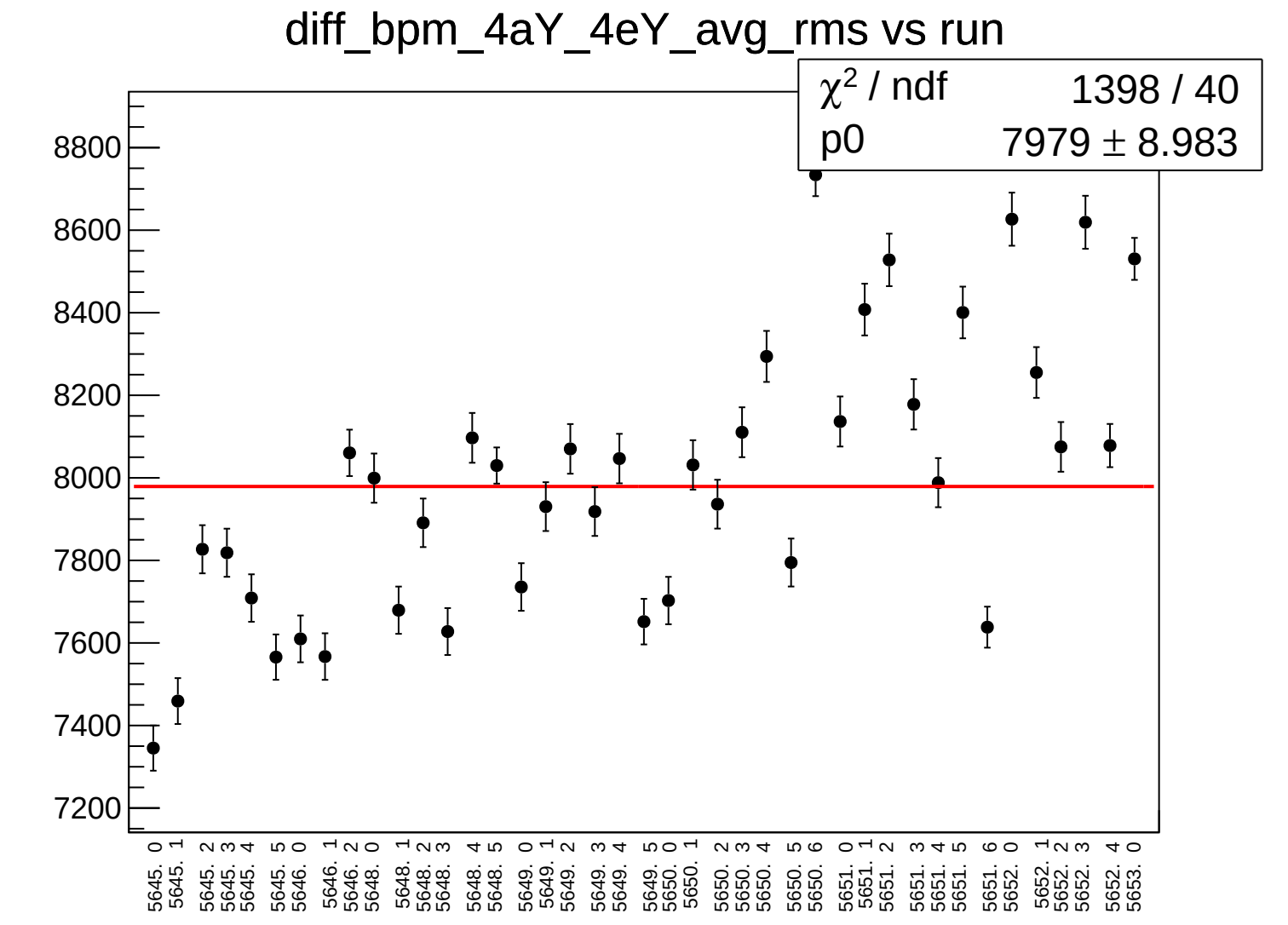

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1453 / 40
p0 8755 ± 9.857
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

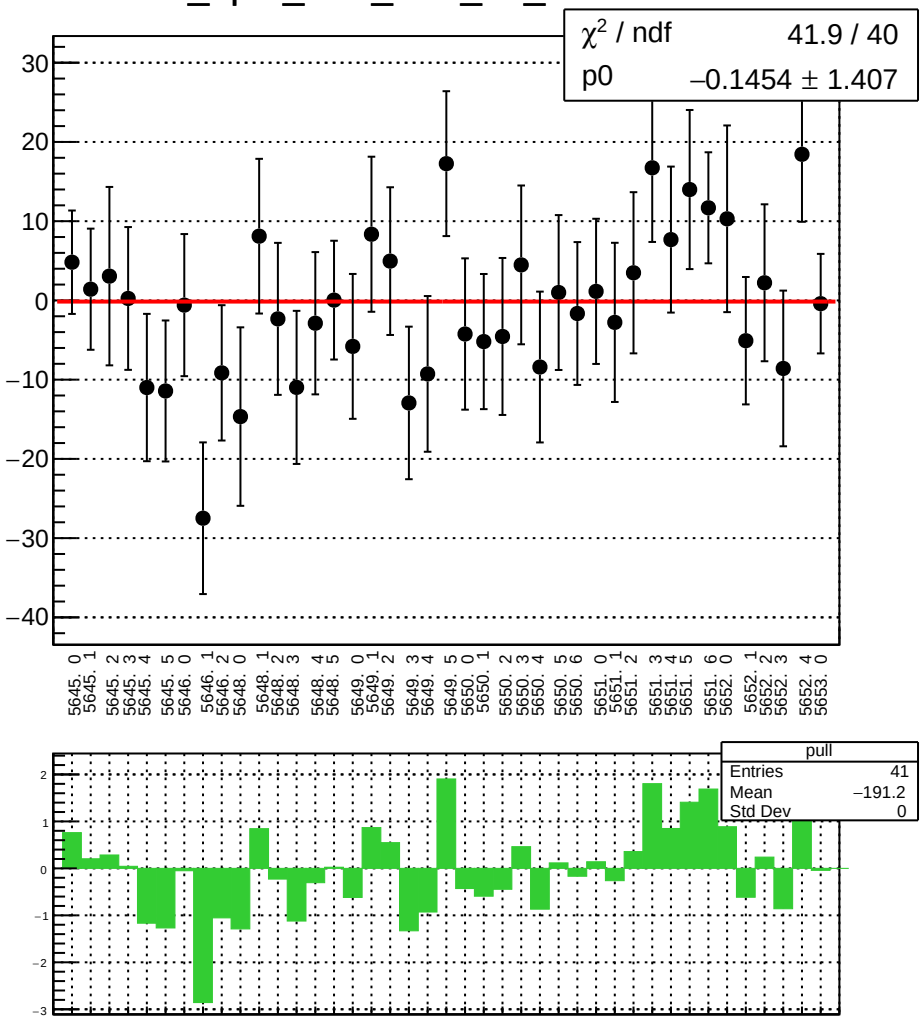

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 42.32 / 40
p0 2.17 ± 1.548
pull
Entries 41
Mean 22.95
Std Dev 0

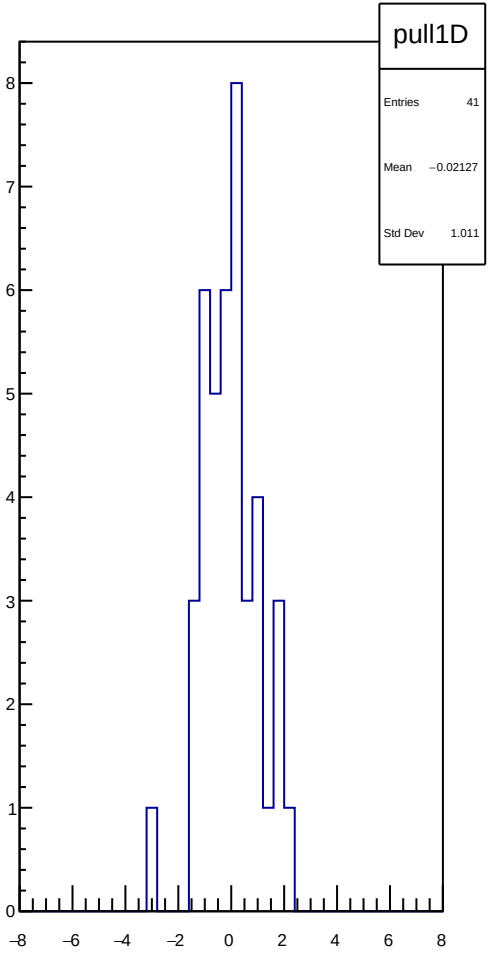

pull1D
Entries 41
Mean −0.01795
Std Dev 1.016

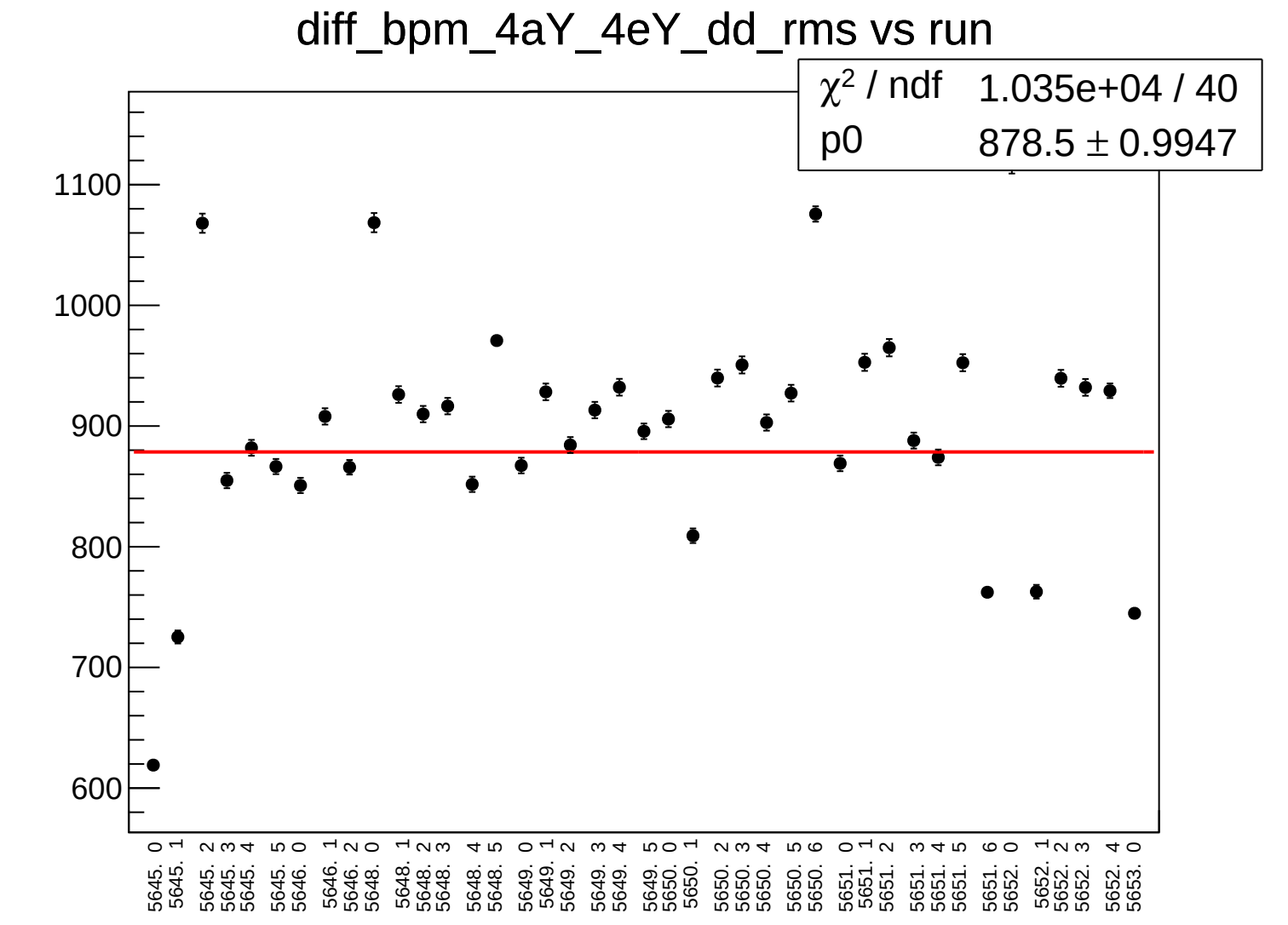

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 220.1 / 40
p0 973.1 ± 1.095
1020
1010
1000
990
980
970
960
950
940
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

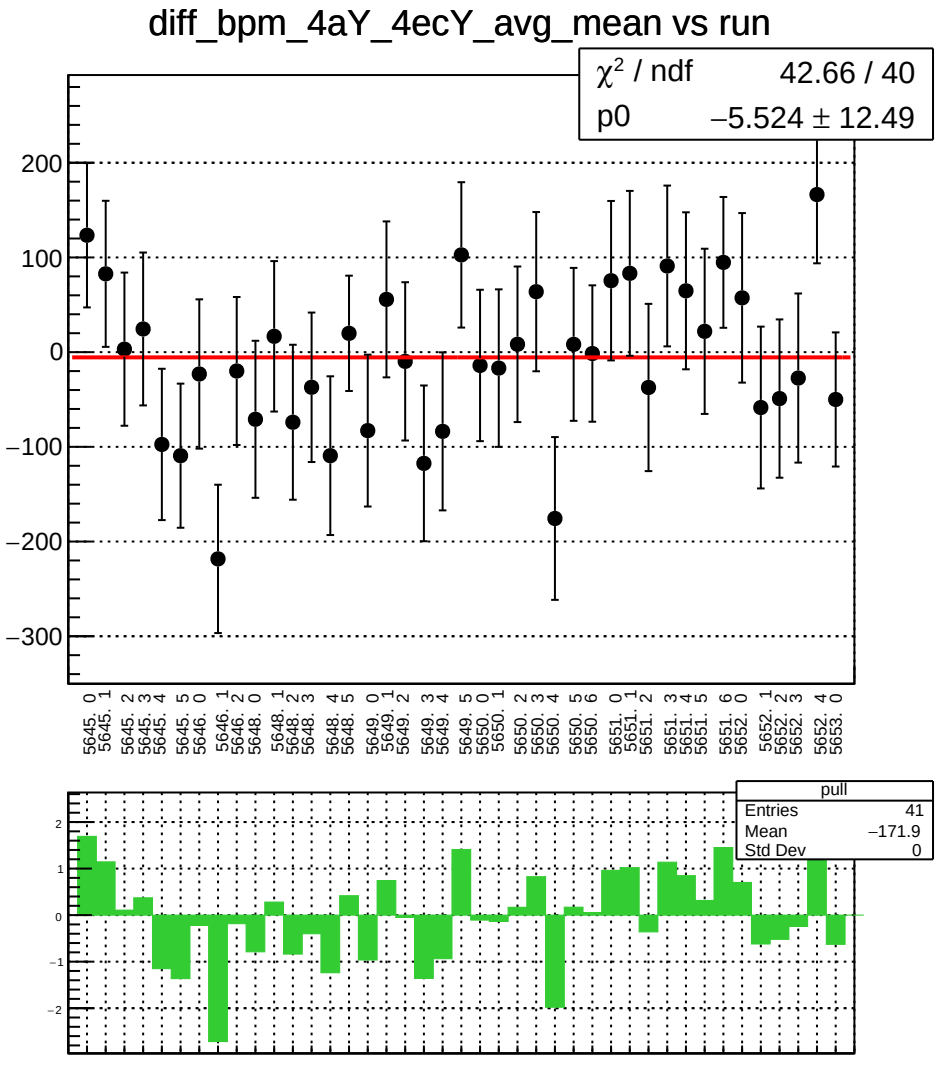

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 42.01 / 40
p0 −3.084 ± 12.7
pull
Entries 41
Mean −136.9
Std Dev 0
pull1D
Entries 41
Mean −0.01782
Std Dev 1.012

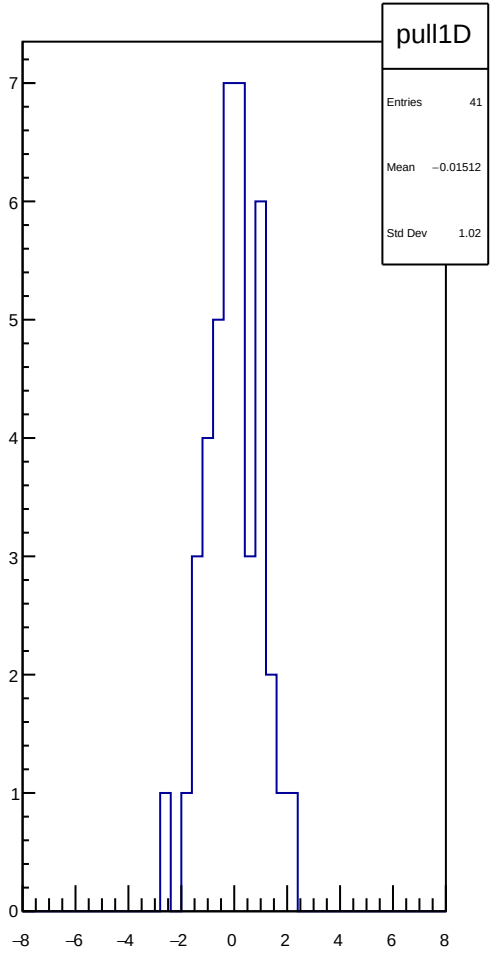

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1398 / 40
p0 7979 ± 8.983
8800
8600
8400
8200
8000
7800
7600
7400
7200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

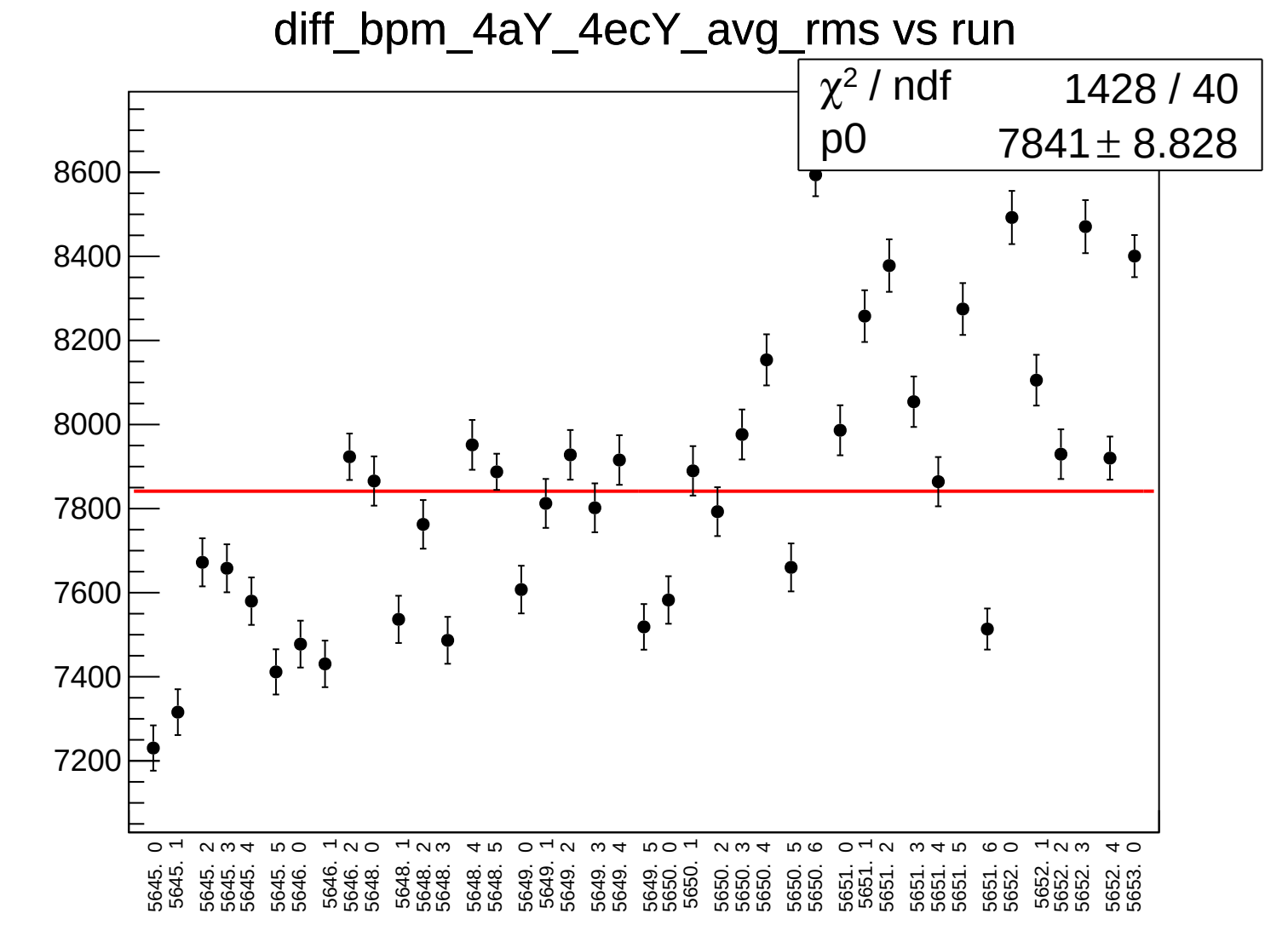

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 41.9 / 40
p0 −0.1454 ± 1.407
pull
Entries 41
Mean −191.2
Std Dev 0

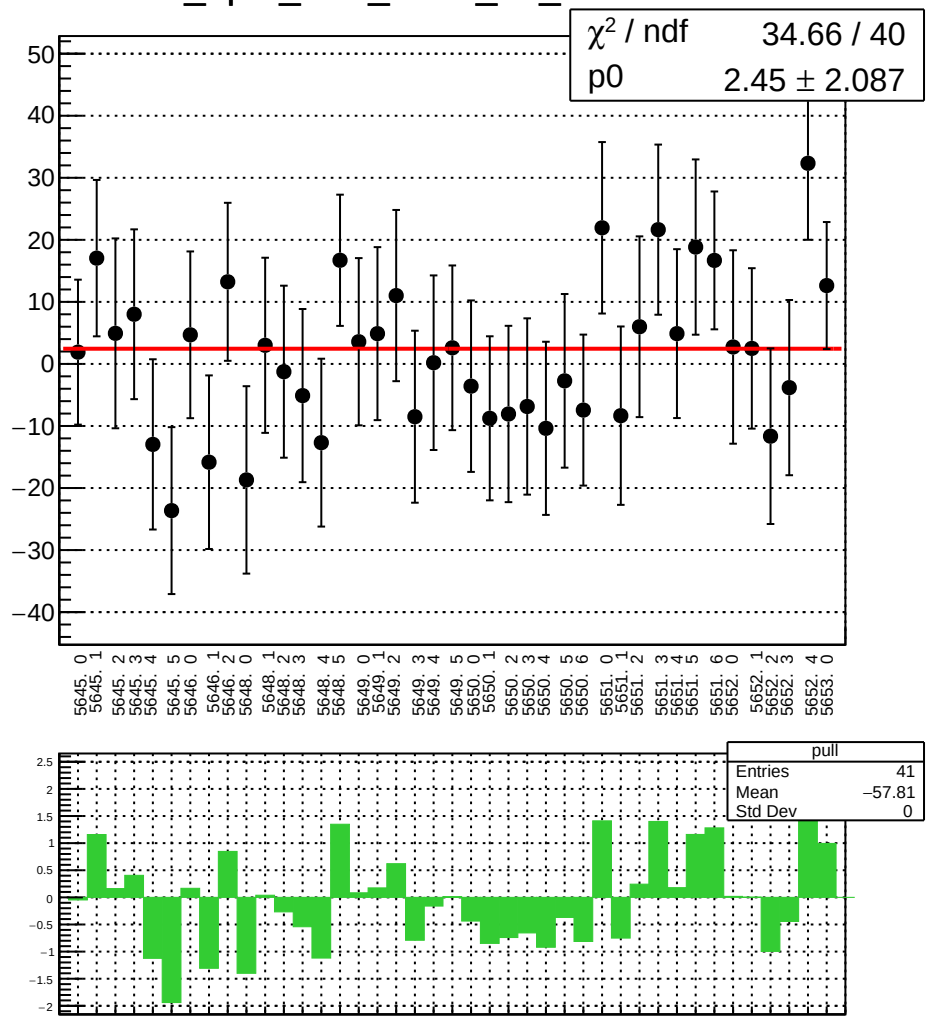

pull1D
Entries 41
Mean −0.02127
Std Dev 1.011

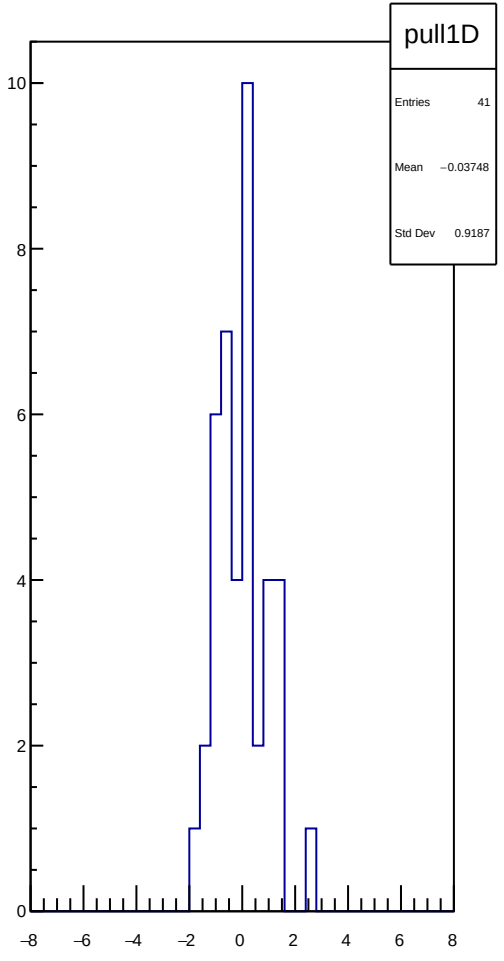

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.035e+04 / 40
p0 878.5 ± 0.9947
1100
1000
900
800
700
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

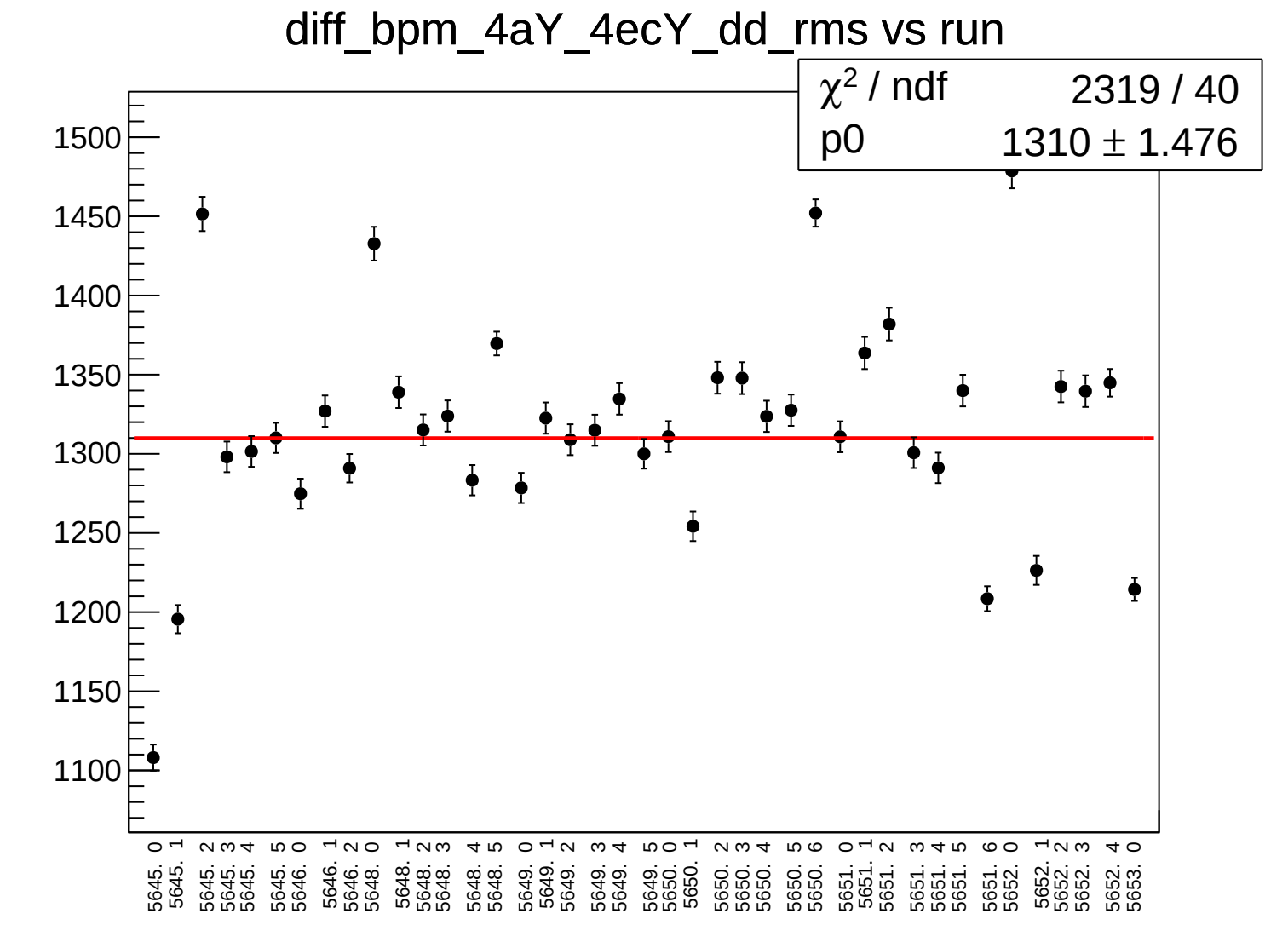

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 42.66 / 40
p0 −5.524 ± 12.49
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −171.9
Std Dev 0
2
1
0
−1
−2

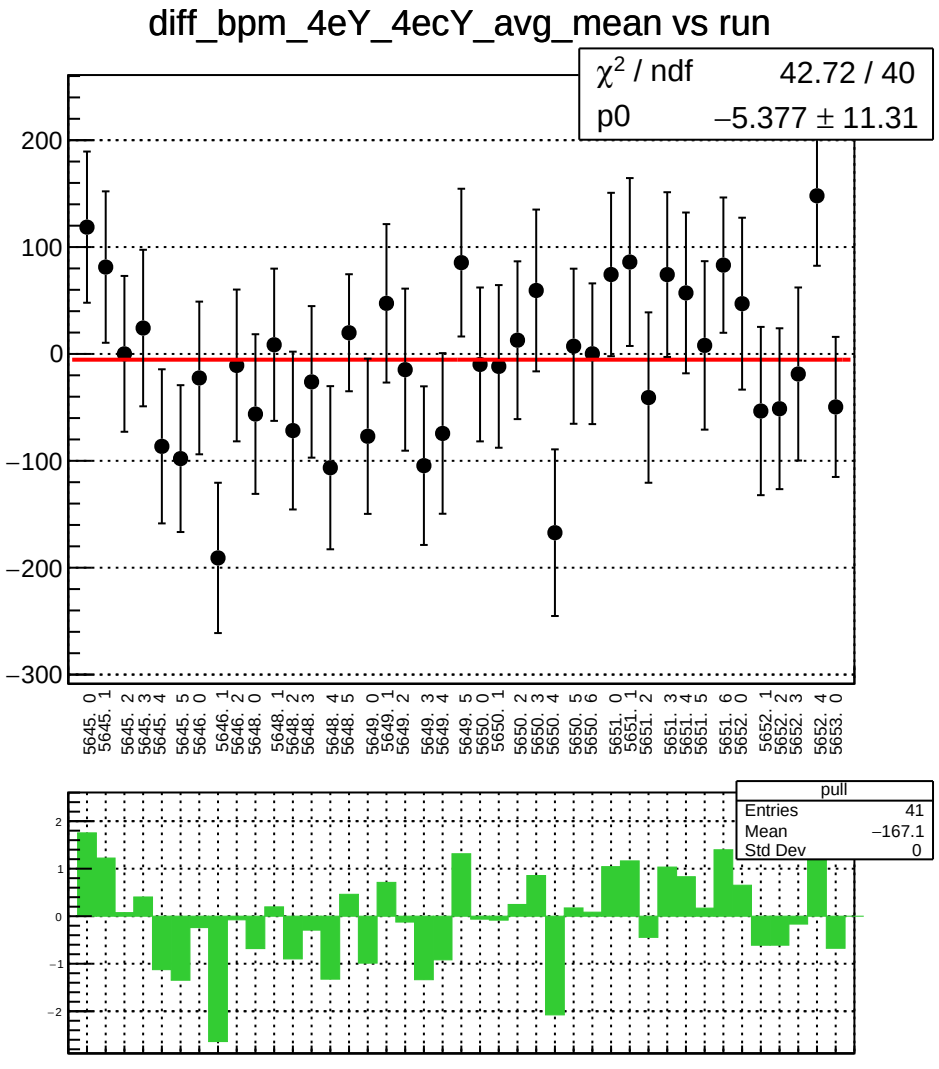

pull1D
Entries 41
Mean −0.01512
Std Dev 1.02
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

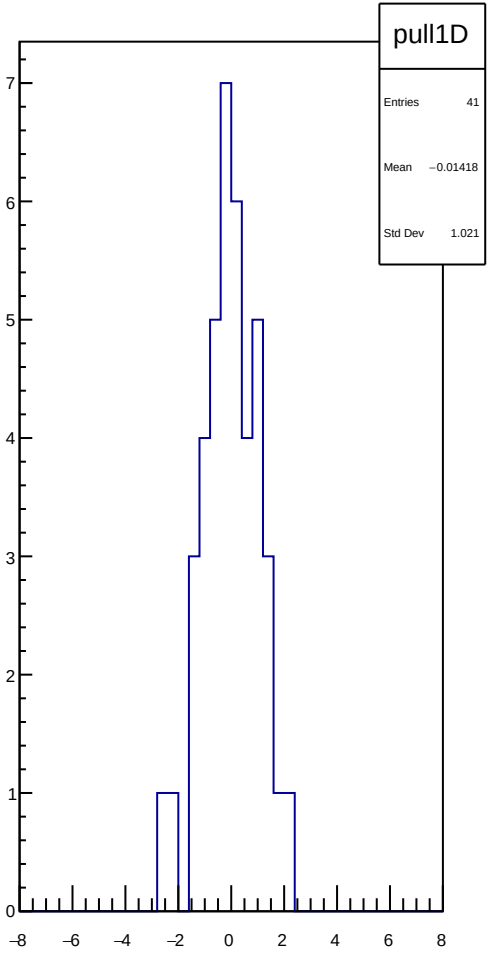

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1428 / 40
p0 7841 ± 8.828
8600
8400
8200
8000
7800
7600
7400
7200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

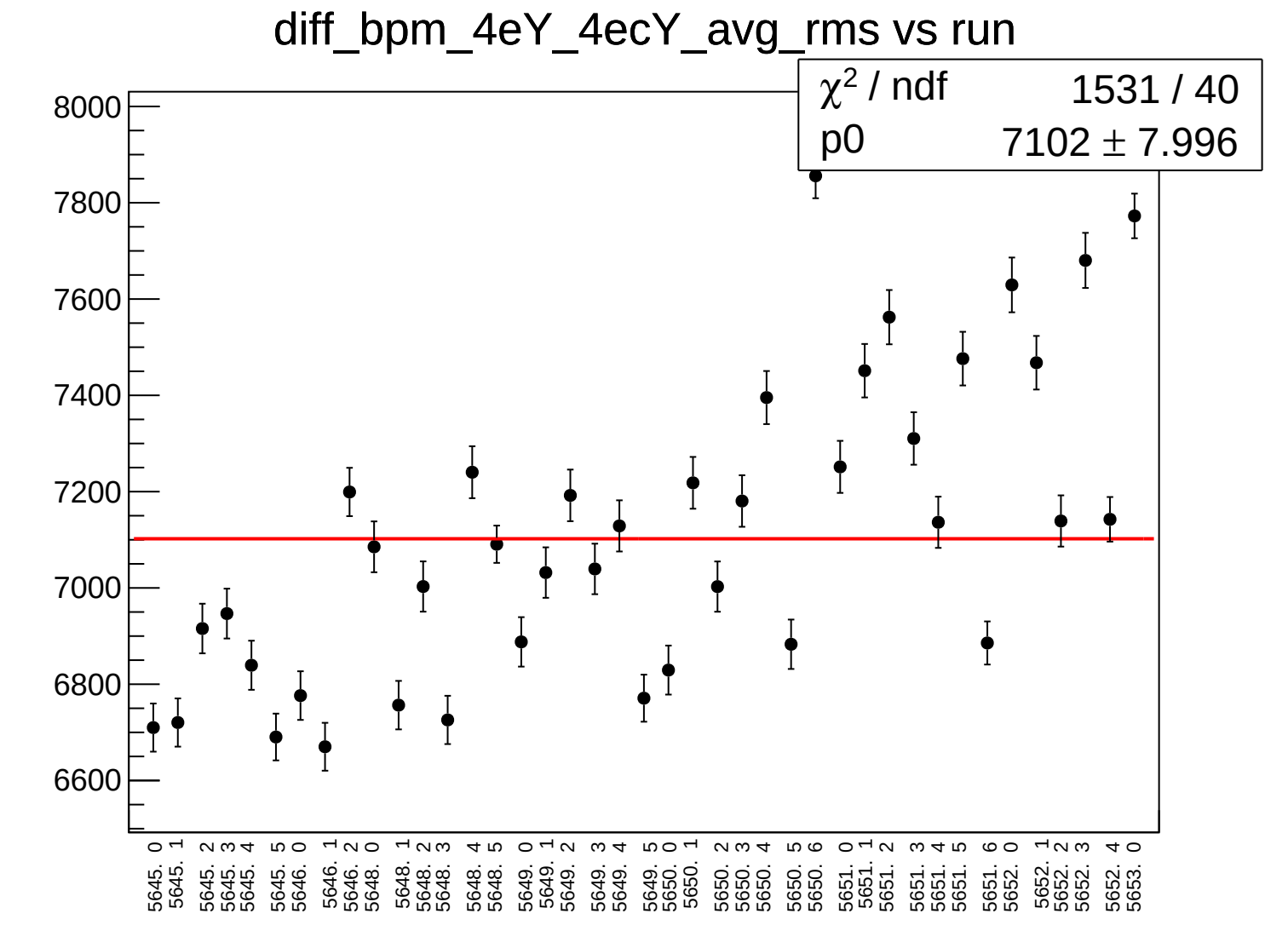

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 34.66 / 40
p0 2.45 ± 2.087
pull
Entries 41
Mean −57.81
Std Dev 0

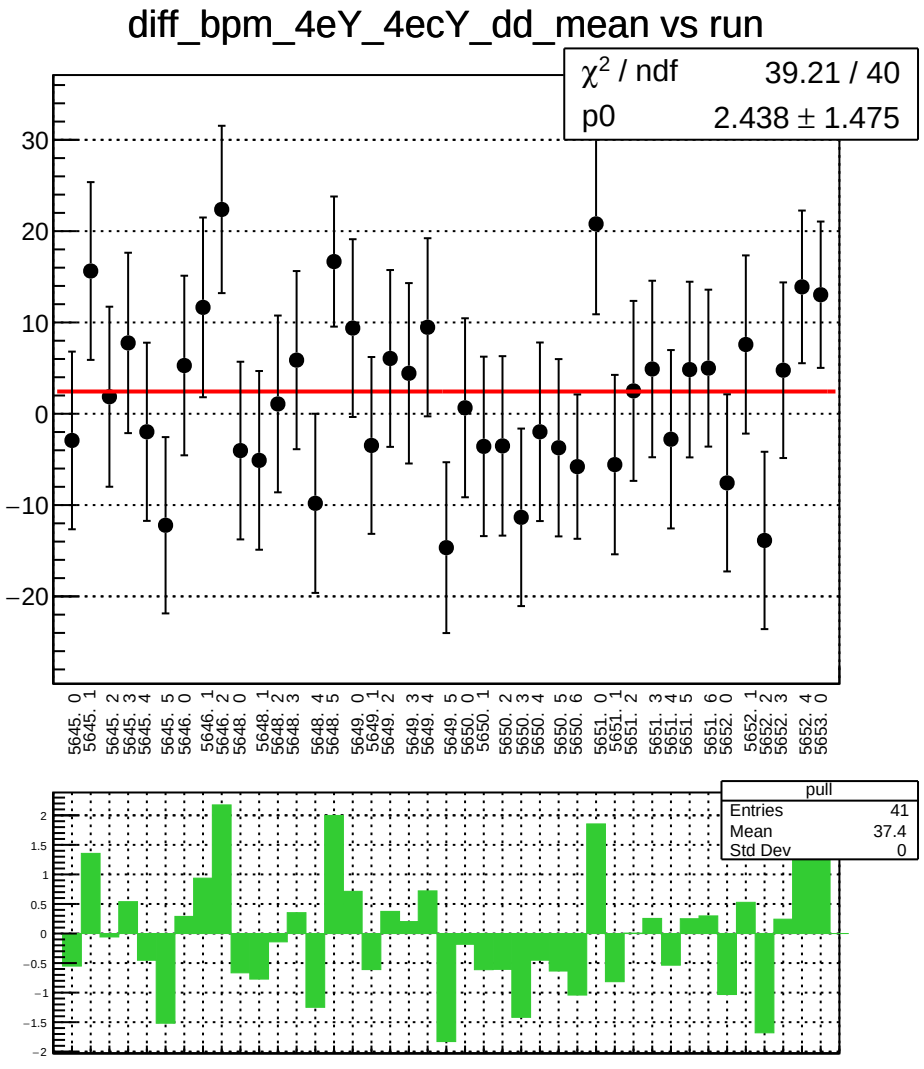

pull1D
Entries 41
Mean −0.03748
Std Dev 0.9187

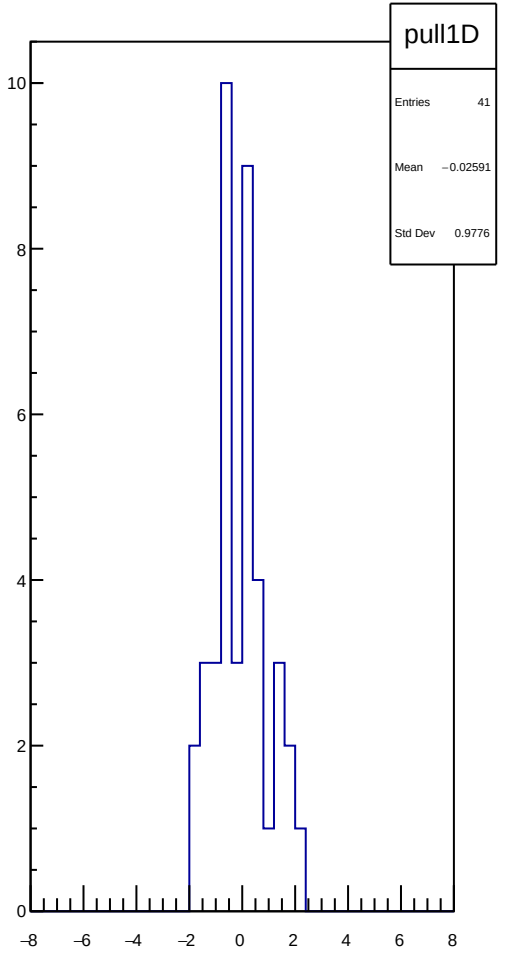

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2319 / 40
p0 1310 ± 1.476
1500
1450
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

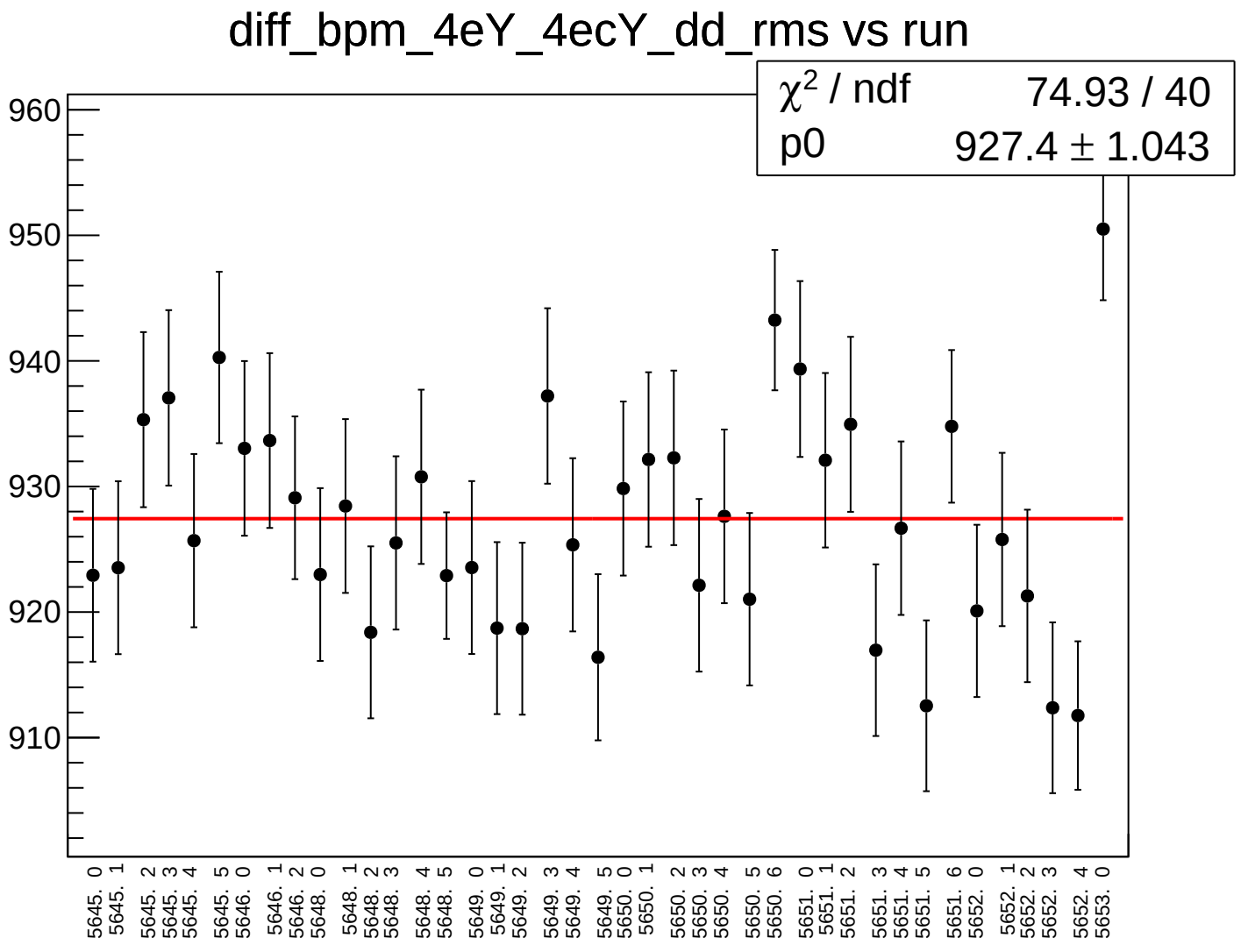

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 42.72 / 40
p0 −5.377 ± 11.31
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −167.1
Std Dev 0
2
1
0
−1
−2

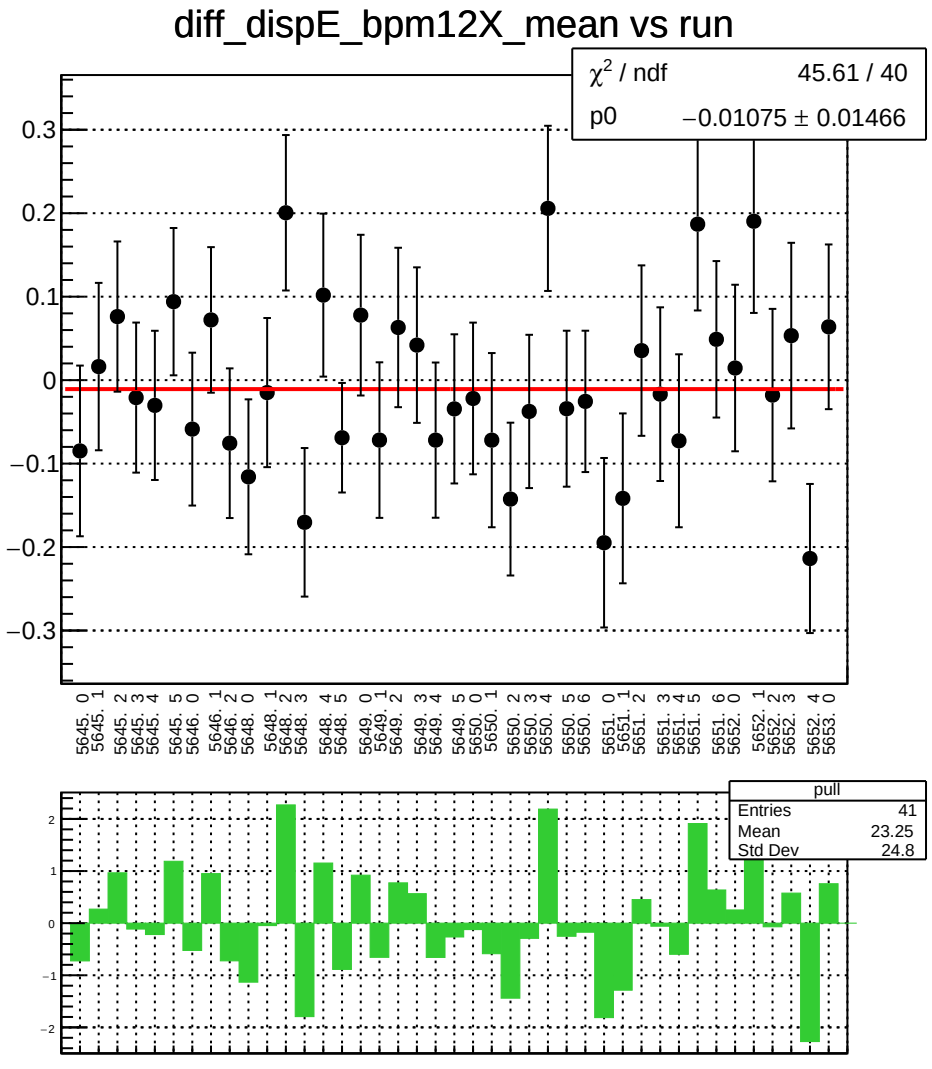

pull1D
Entries 41
Mean −0.01418
Std Dev 1.021
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

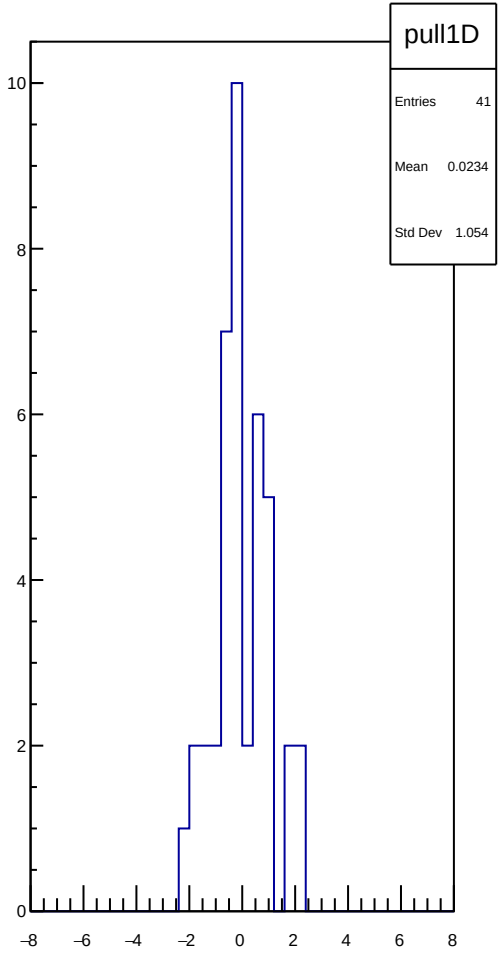

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1531 / 40
p0 7102 ± 7.996
8000
7800
7600
7400
7200
7000
6800
6600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

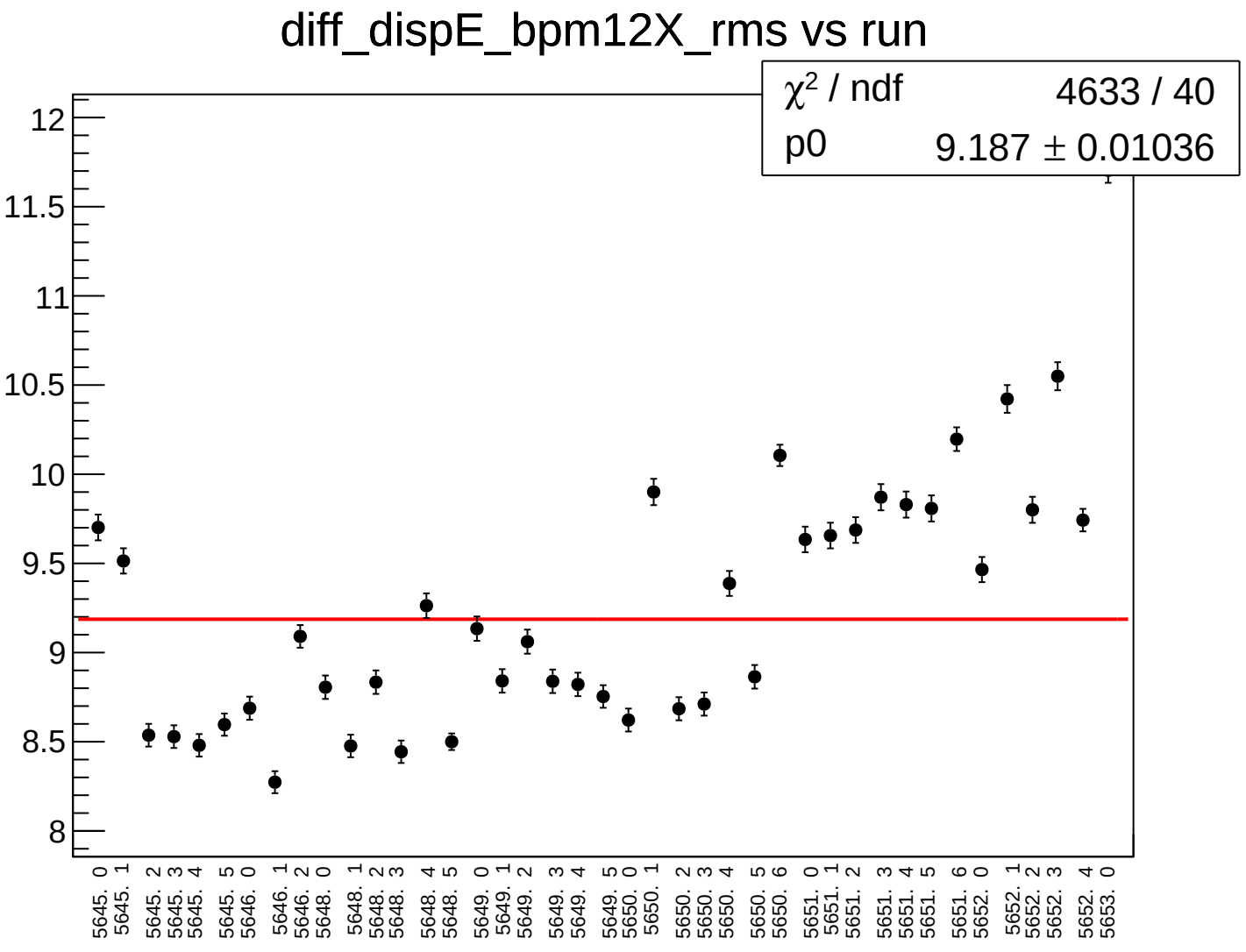

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 39.21 / 40
p0 2.438 ± 1.475
30
20
10
0
−10
−20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 37.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

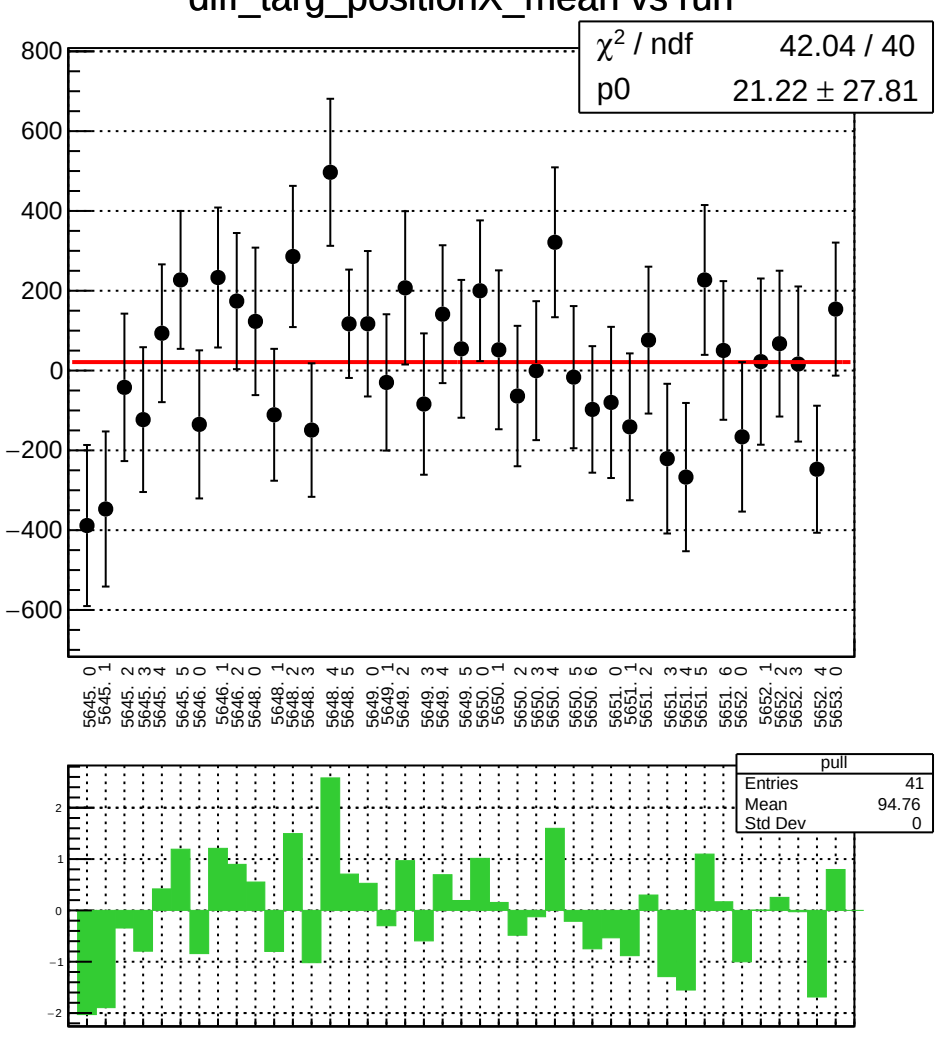

pull1D
Entries 41
Mean −0.02591
Std Dev 0.9776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

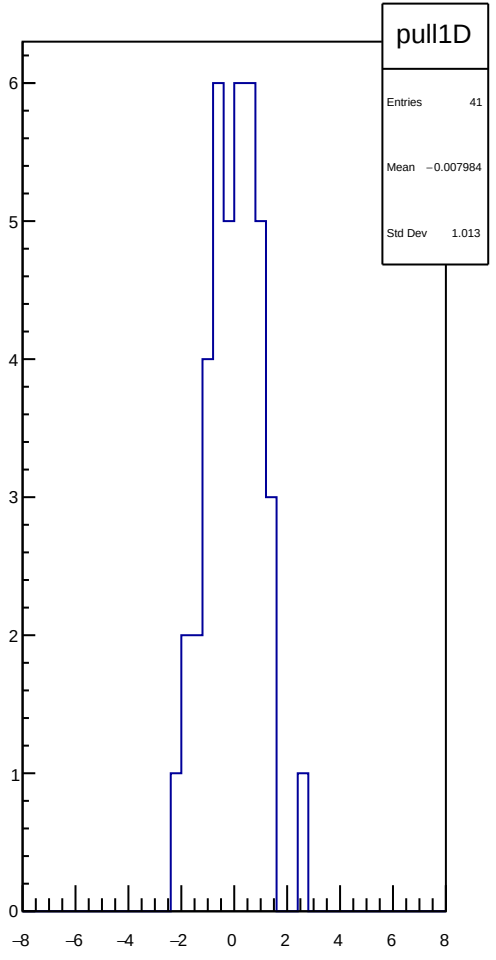

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 74.93 / 40
p0 927.4 ± 1.043
960
950
940
930
920
910
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

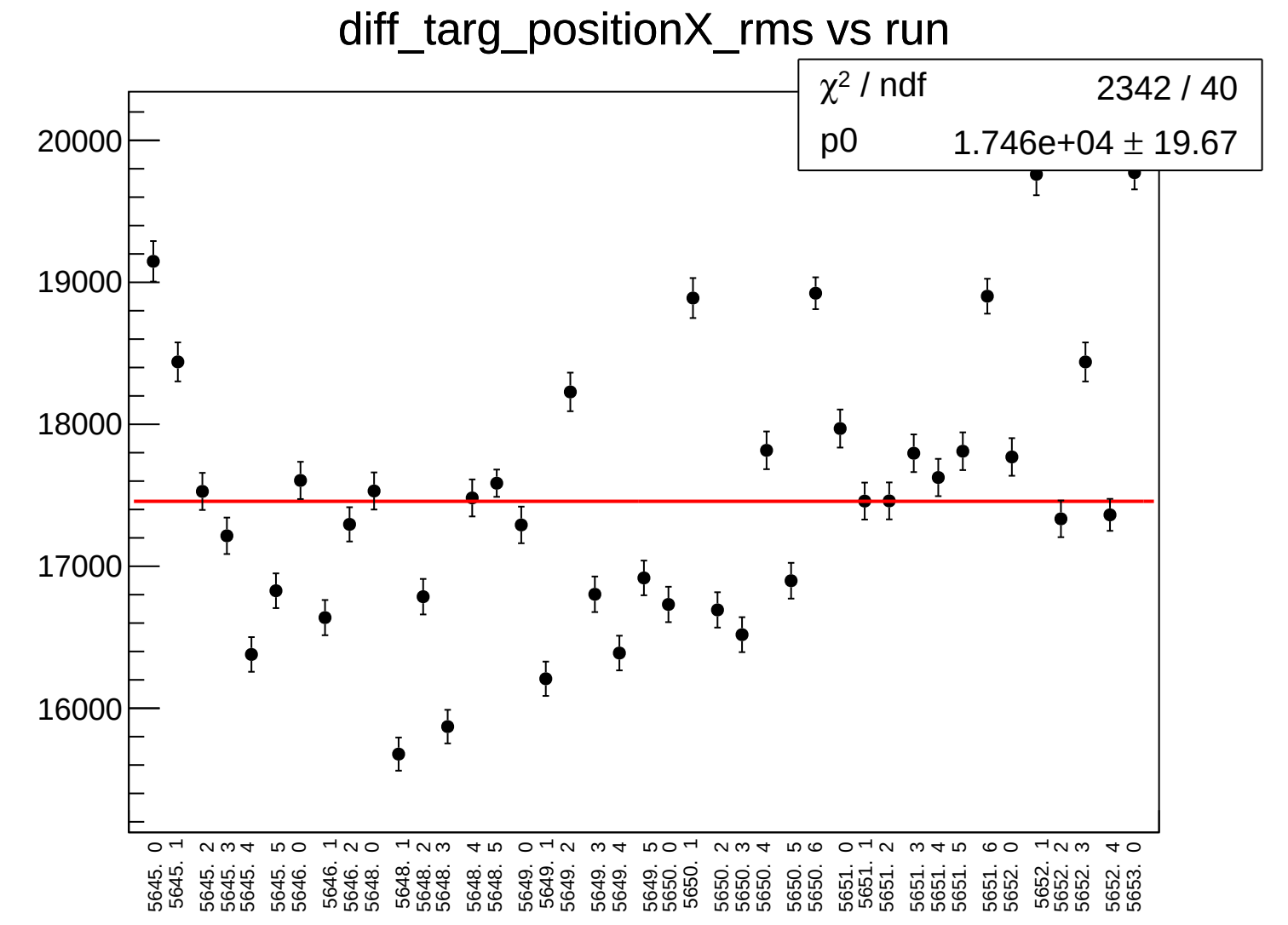

diff_dispE_bpm12X_mean vs run
χ² / ndf 45.61 / 40
p0 −0.01075 ± 0.01466
pull
Entries 41
Mean 23.25
Std Dev 24.8

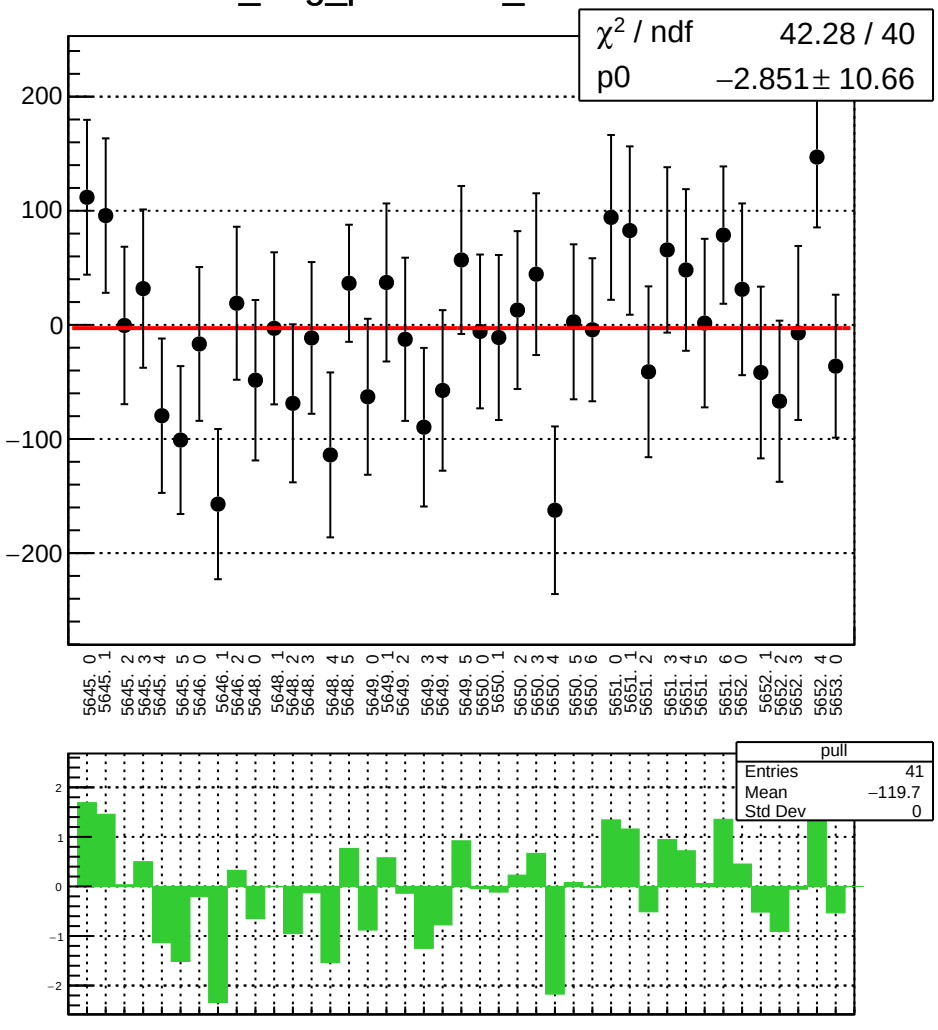

pull1D
Entries 41
Mean 0.0234
Std Dev 1.054

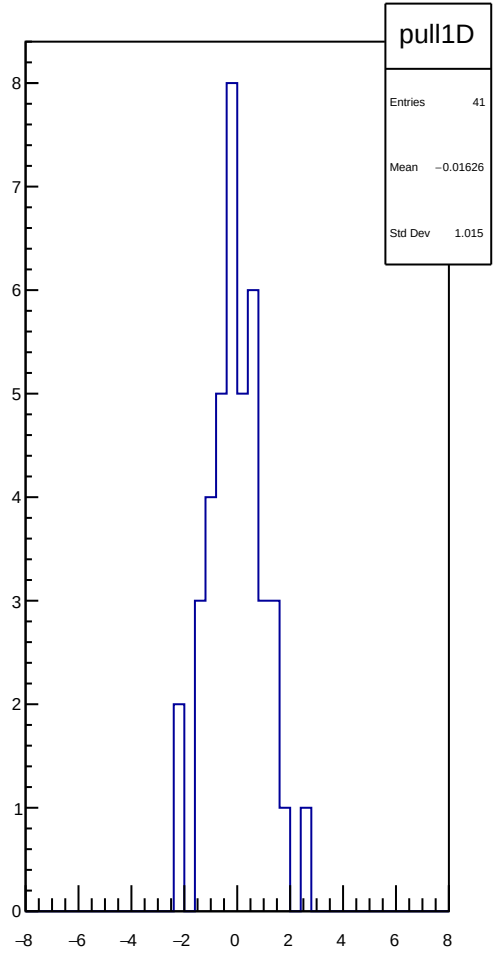

diff_dispE_bpm12X_rms vs run
χ² / ndf 4633 / 40
p0 9.187 ± 0.01036
12
11.5
11
10.5
10
9.5
9
8.5
8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

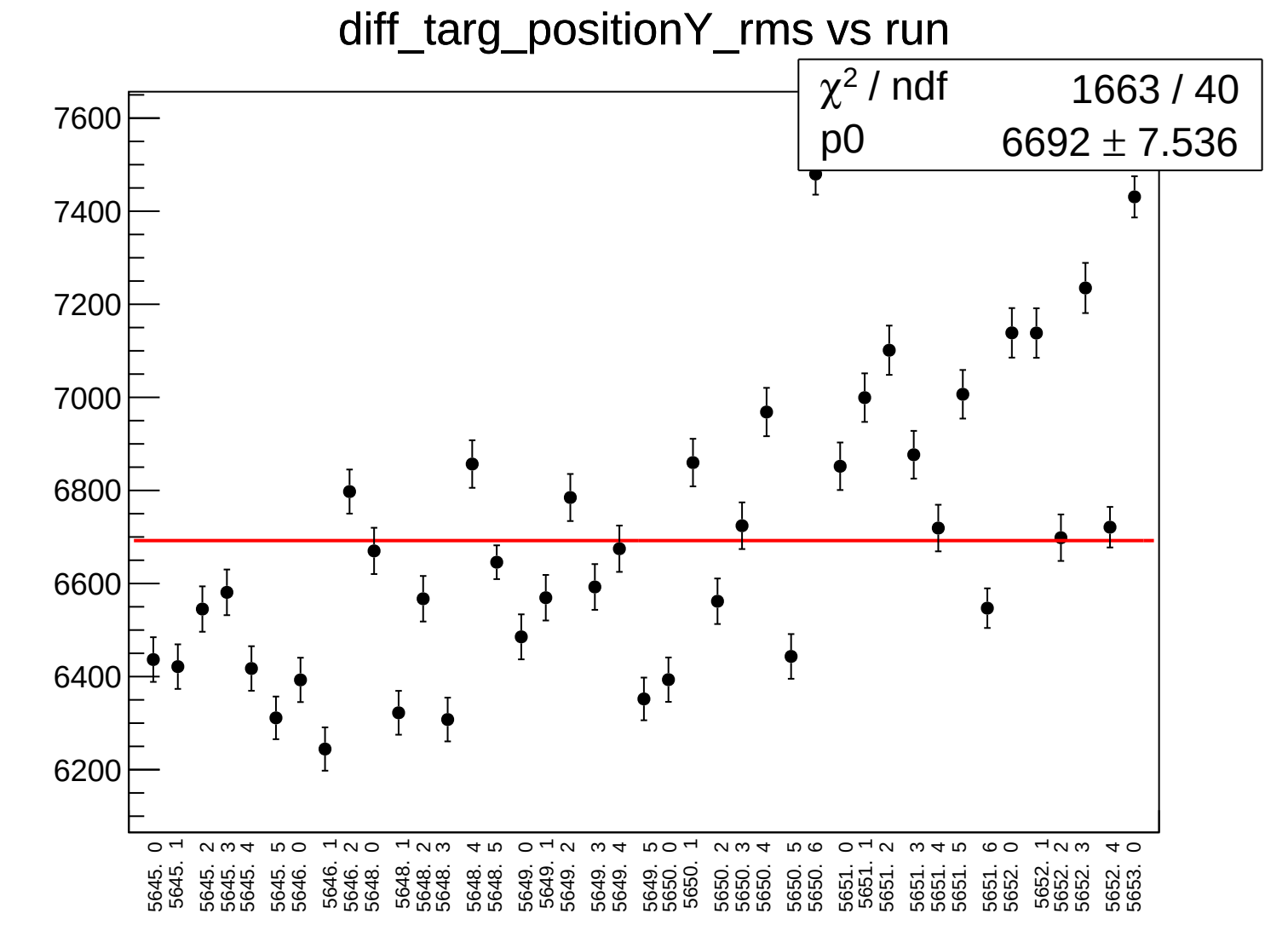

diff_targ_positionX_mean vs run
χ^2 / ndf 42.04 / 40
p0 21.22 ± 27.81
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 94.76
Std Dev 0
2
1
0
−1
−2

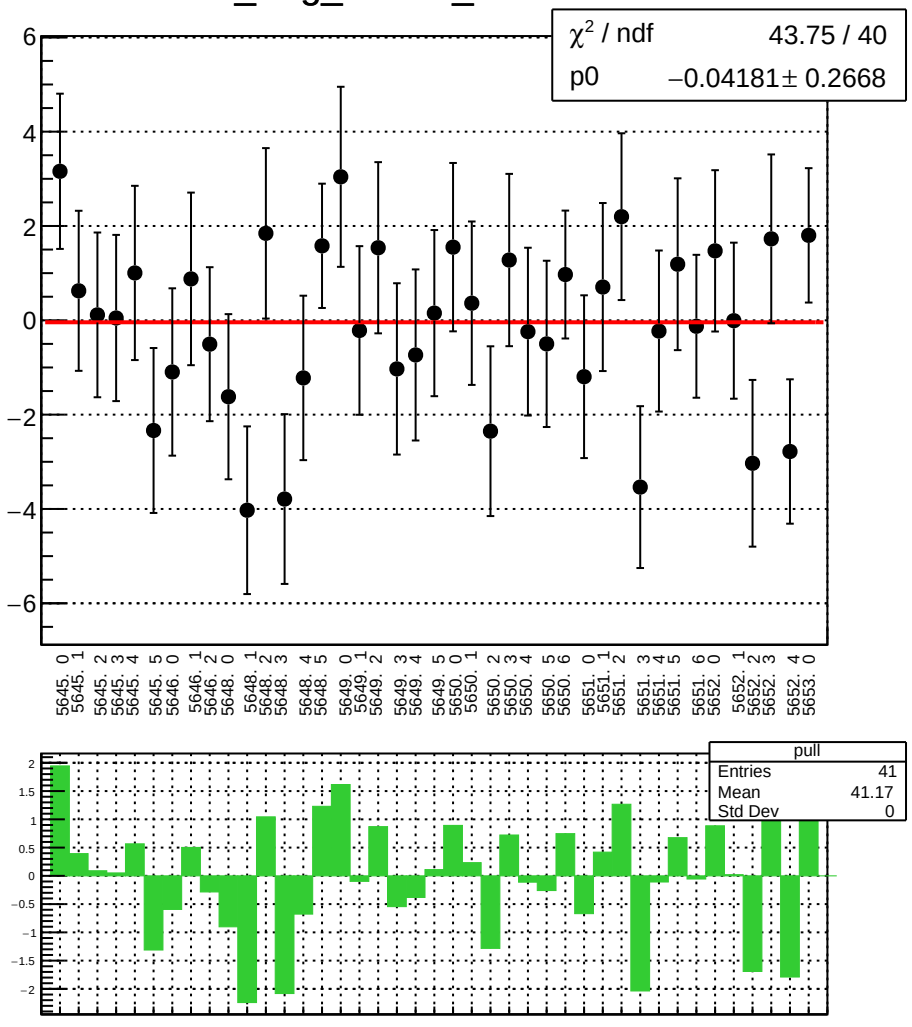

pull1D
Entries 41
Mean −0.007984
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

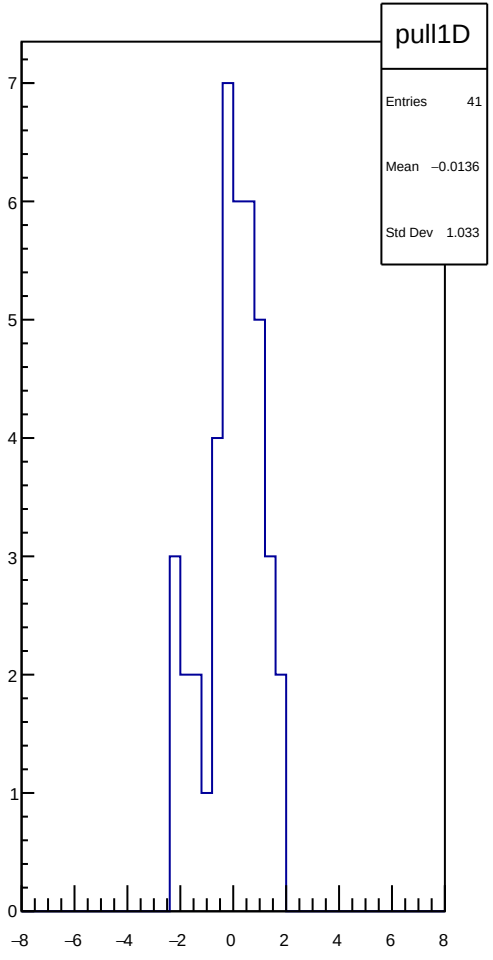

diff_targ_positionX_rms vs run
χ² / ndf 2342 / 40
p0 1.746e+04 ± 19.67
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

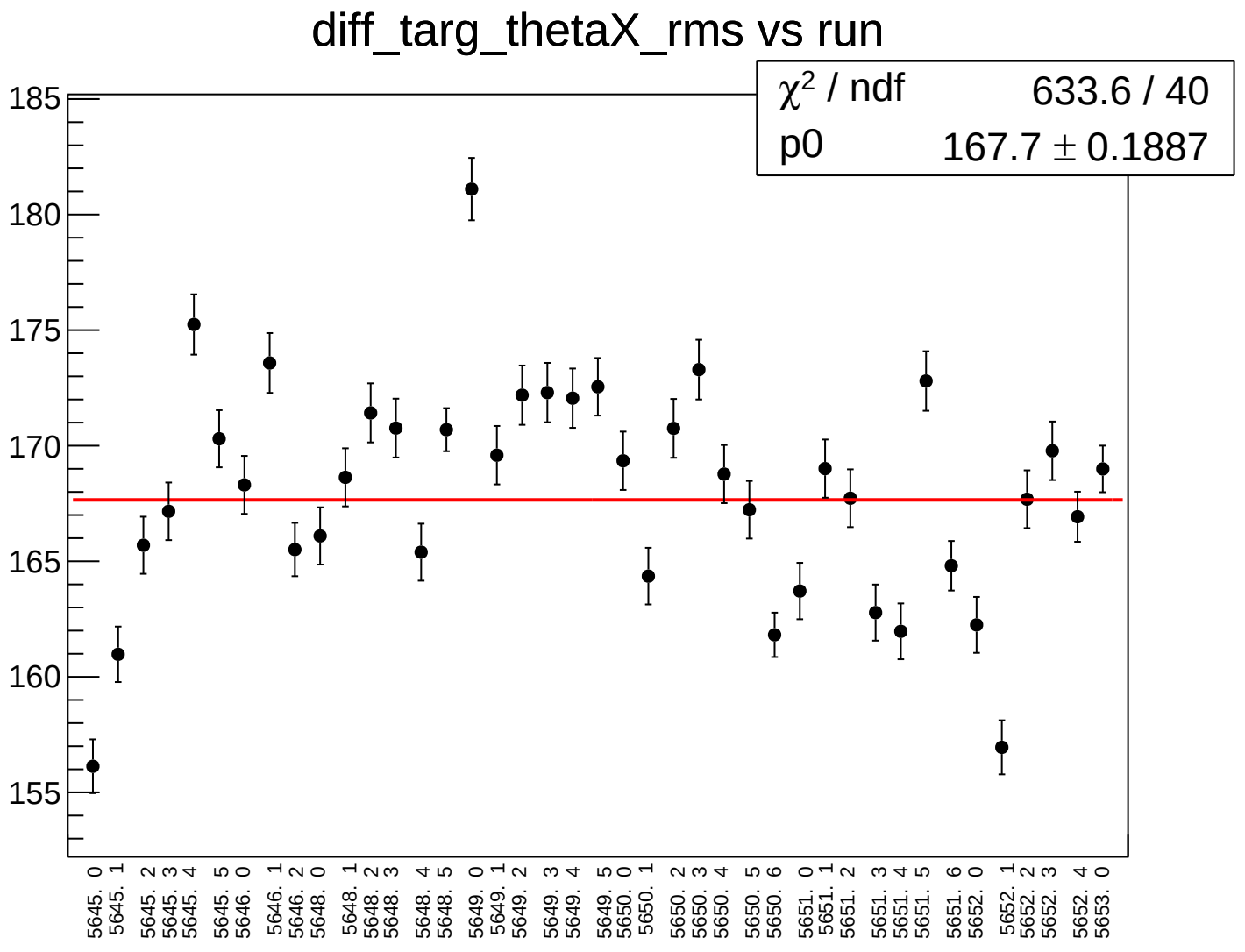

diff_targ_positionY_mean vs run
χ² / ndf 42.28 / 40
p0 −2.851 ± 10.66
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −119.7
Std Dev 0
2
1
0
−1
−2

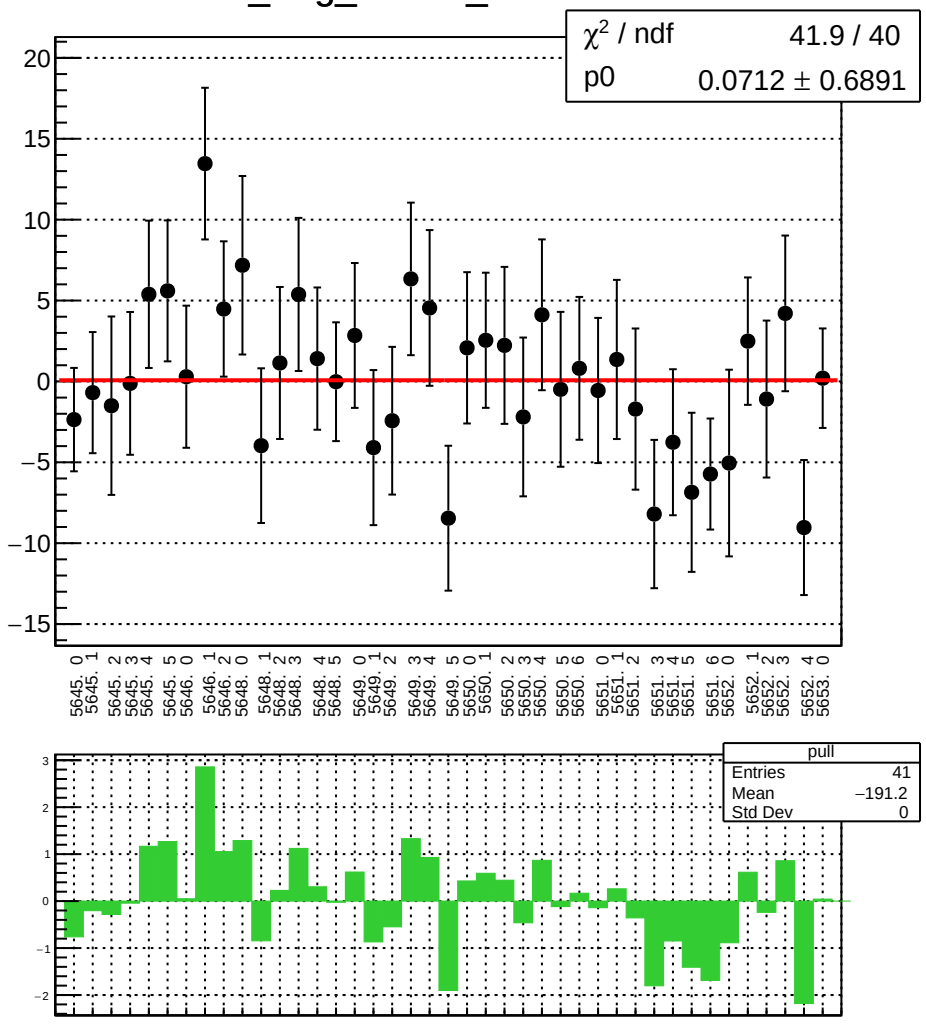

pull1D
Entries 41
Mean −0.01626
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

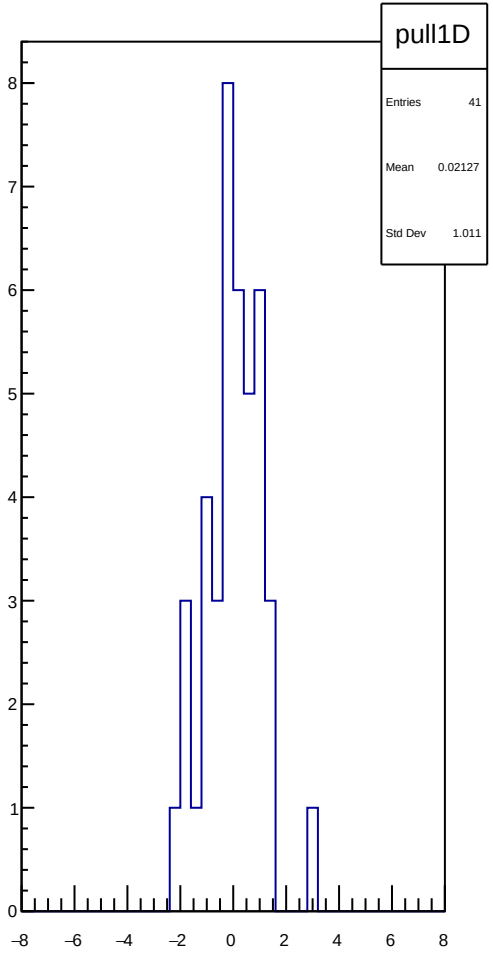

diff_targ_positionY_rms vs run
χ² / ndf 1663 / 40
p0 6692 ± 7.536
7600
7400
7200
7000
6800
6600
6400
6200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

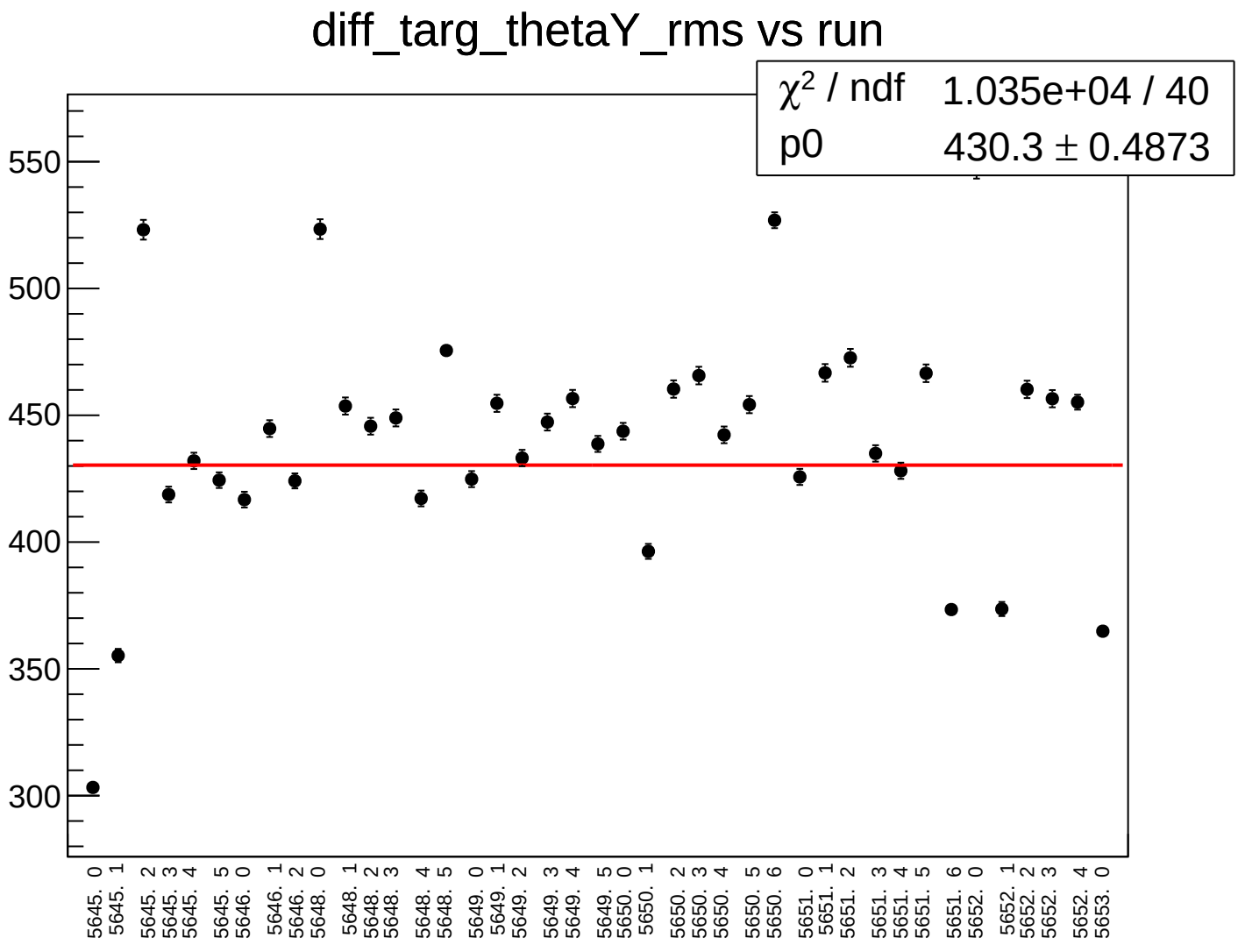

diff_targ_thetaX_mean vs run
χ² / ndf 43.75 / 40
p0 −0.04181 ± 0.2668
pull
Entries 41
Mean 41.17
Std Dev 0

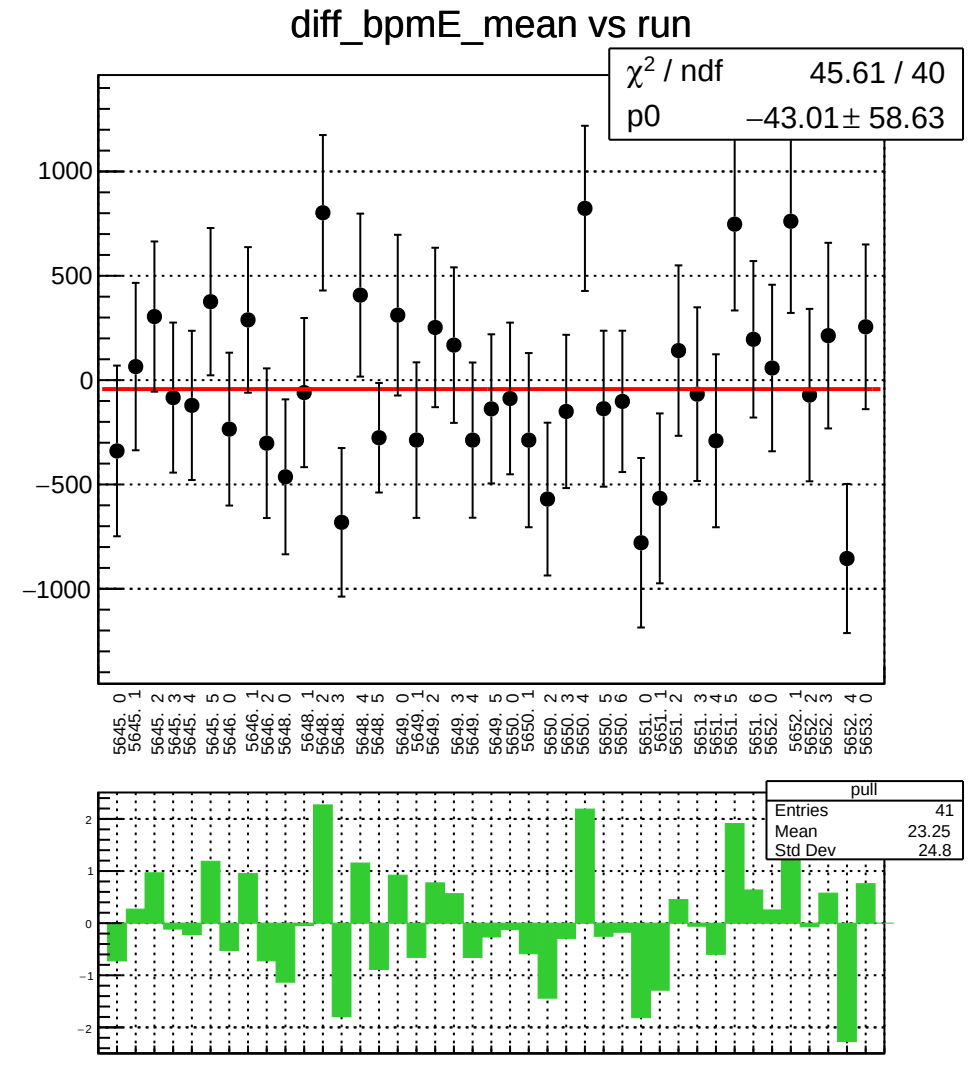

pull1D
Entries 41
Mean −0.0136
Std Dev 1.033

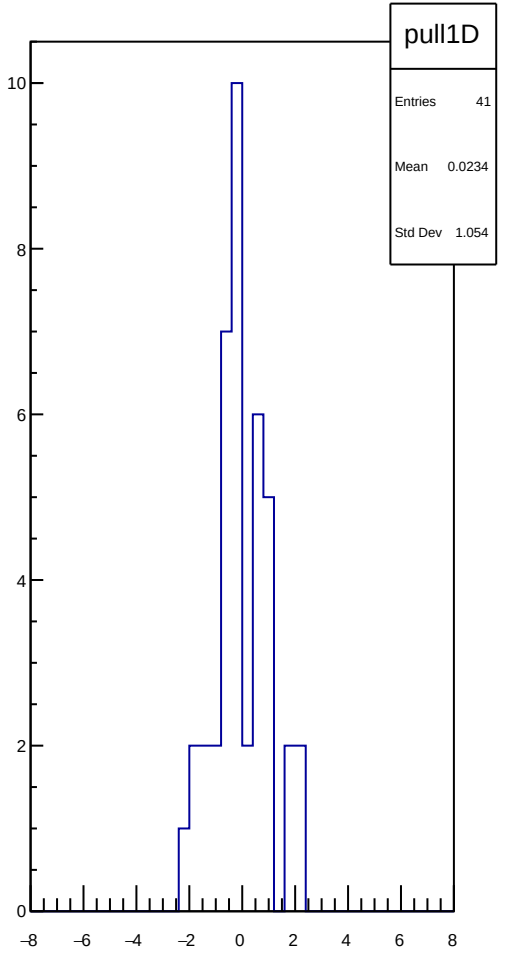

diff_targ_thetaX_rms vs run
χ² / ndf 633.6 / 40
p0 167.7 ± 0.1887
185
180
175
170
165
160
155
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

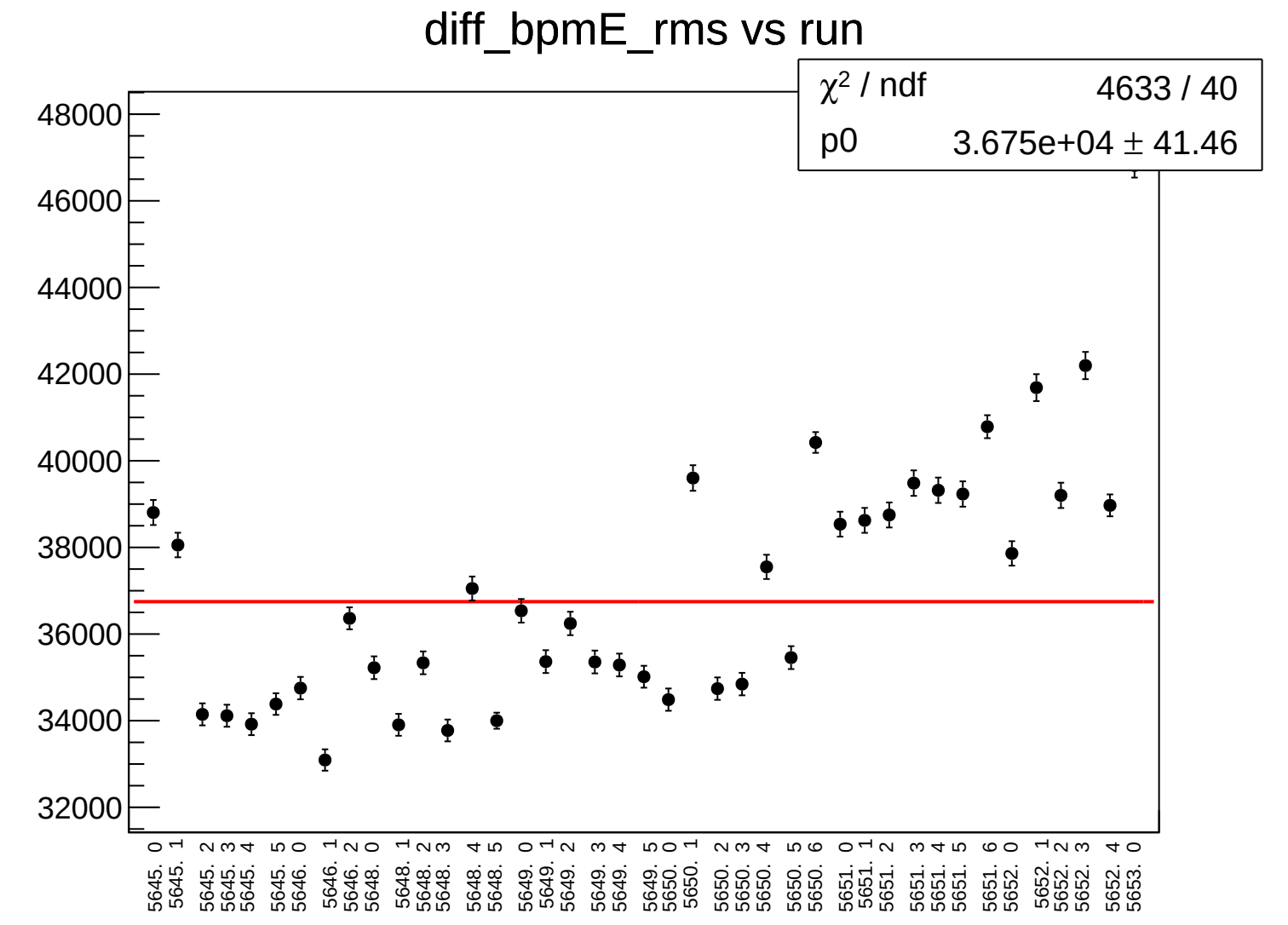

diff_targ_thetaY_mean vs run
χ² / ndf 41.9 / 40
p0 0.0712 ± 0.6891
pull
Entries 41
Mean −191.2
Std Dev 0

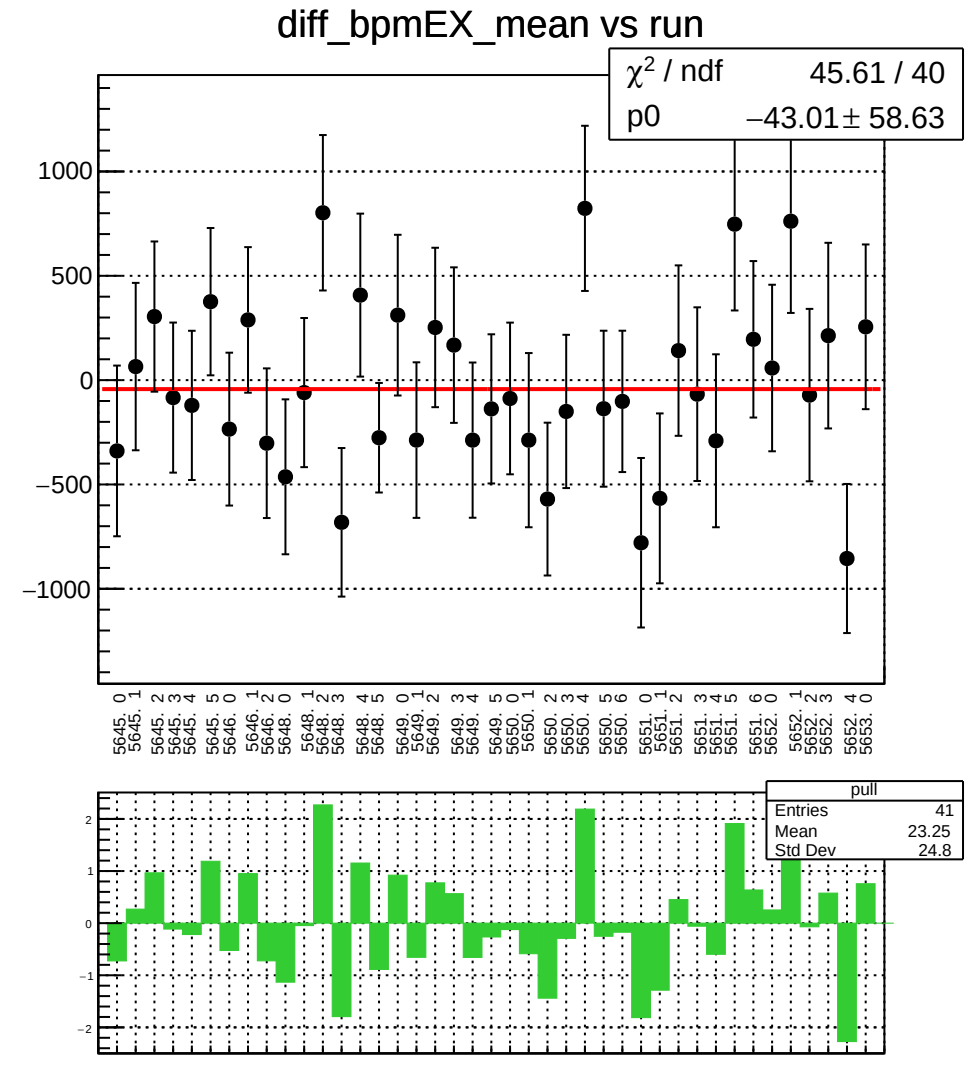

pull1D
Entries 41
Mean 0.02127
Std Dev 1.011

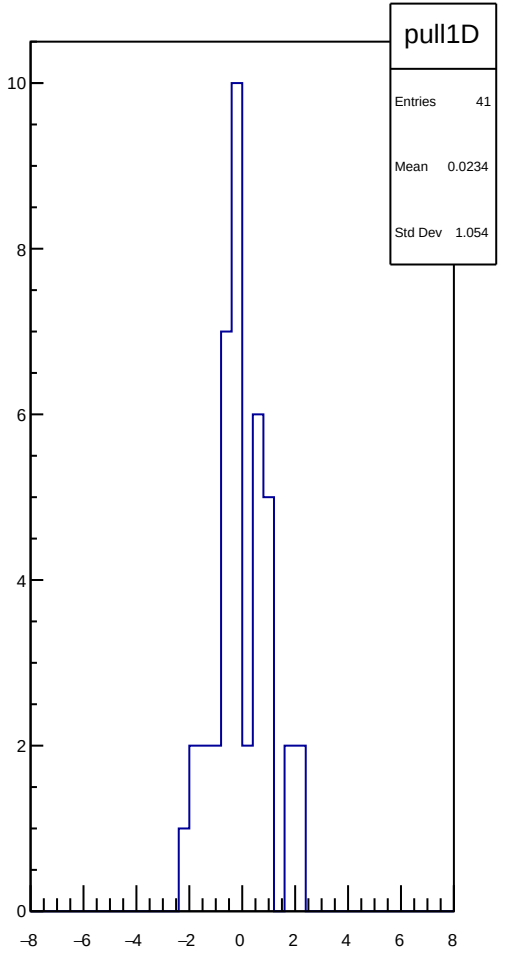

diff_targ_thetaY_rms vs run
χ² / ndf 1.035e+04 / 40
p0 430.3 ± 0.4873
550
500
450
400
350
300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

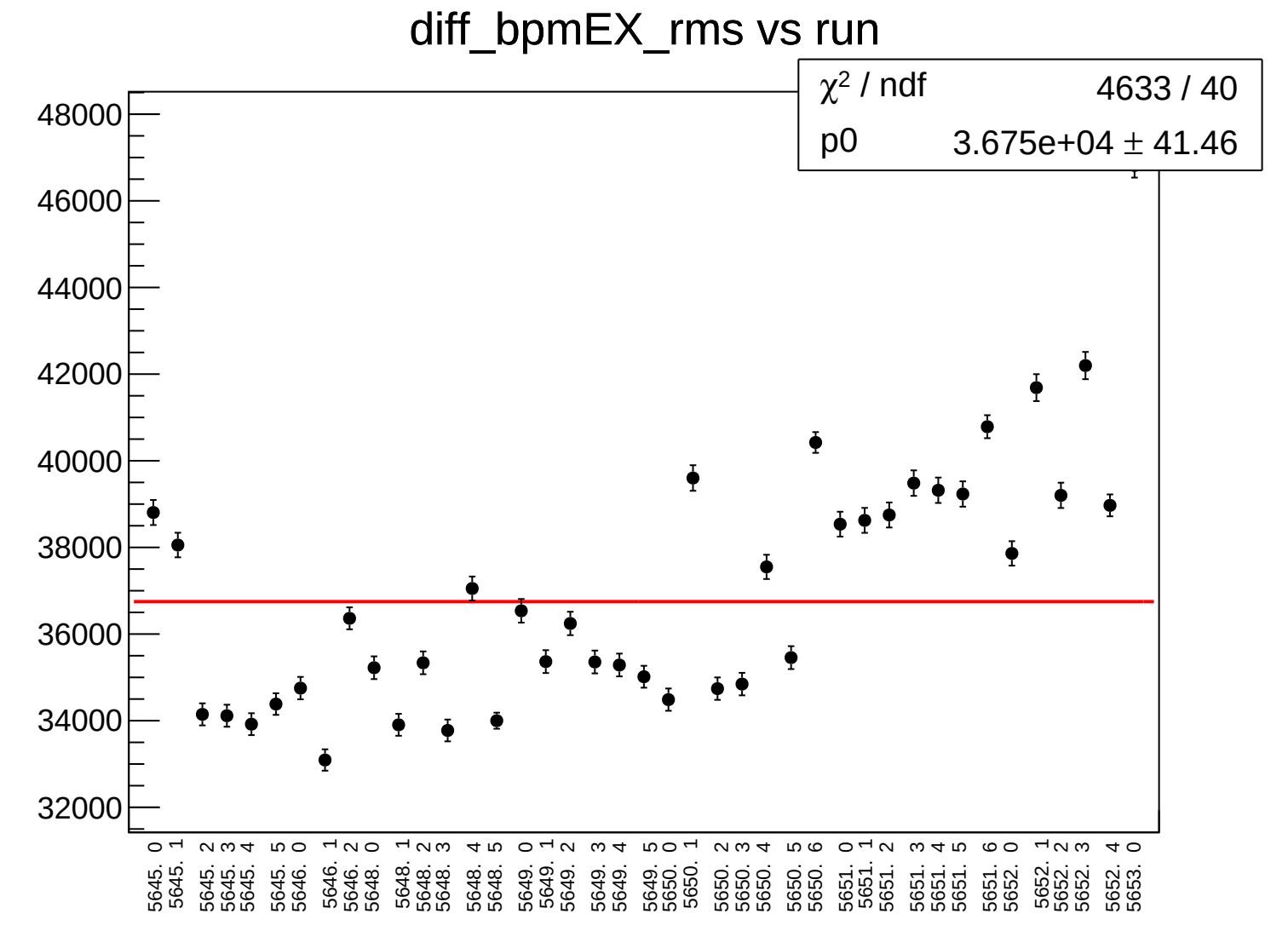

diff_bpmE_mean vs run
χ² / ndf 45.61 / 40
p0 −43.01 ± 58.63
1000
500
0
−500
−1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.25
Std Dev 24.8
2
1
0
−1
−2

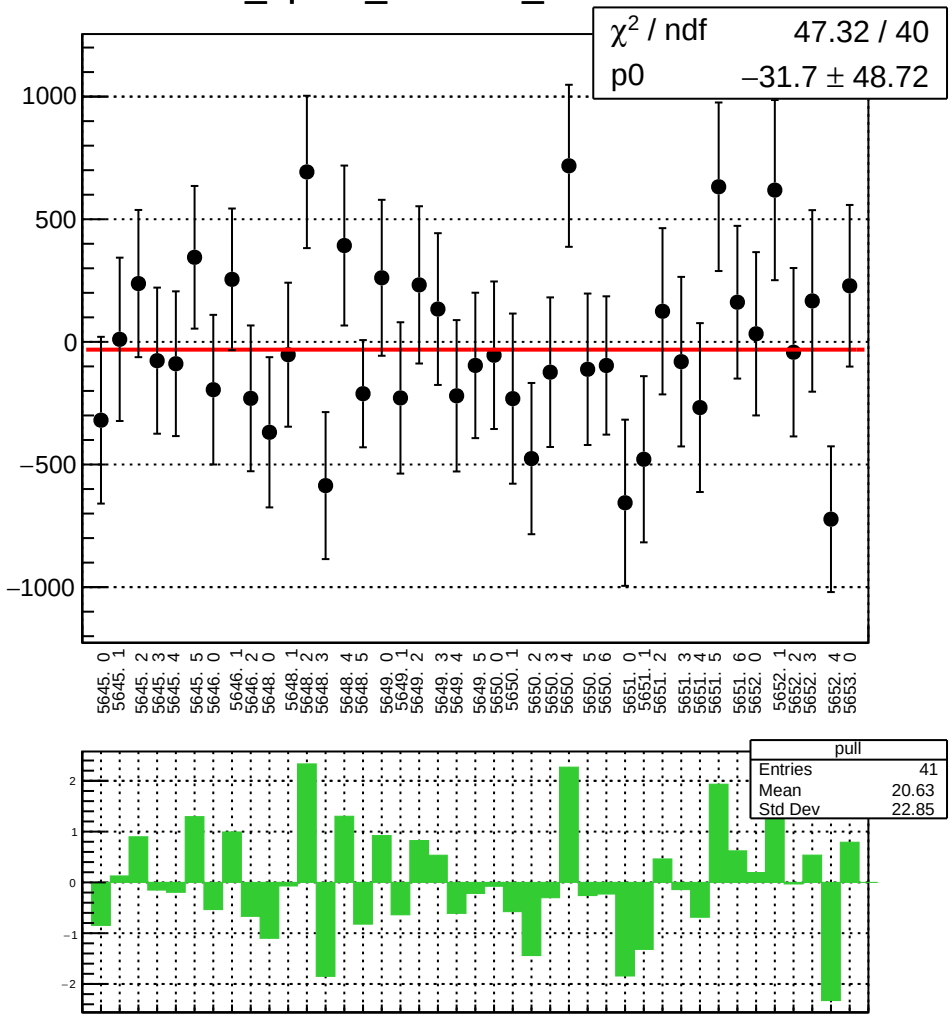

pull1D
Entries 41
Mean 0.0234
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

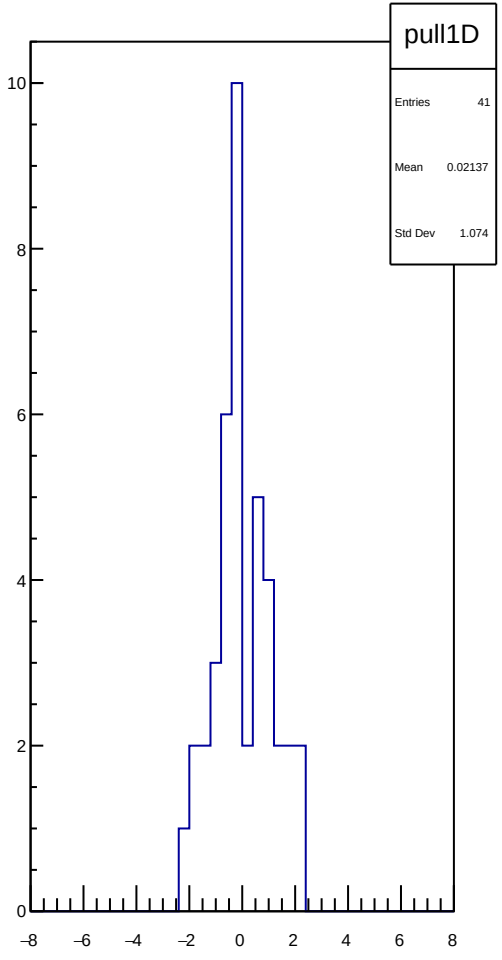

diff_bpmE_rms vs run
χ² / ndf 4633 / 40
p0 3.675e+04 ± 41.46
48000
46000
44000
42000
40000
38000
36000
34000
32000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

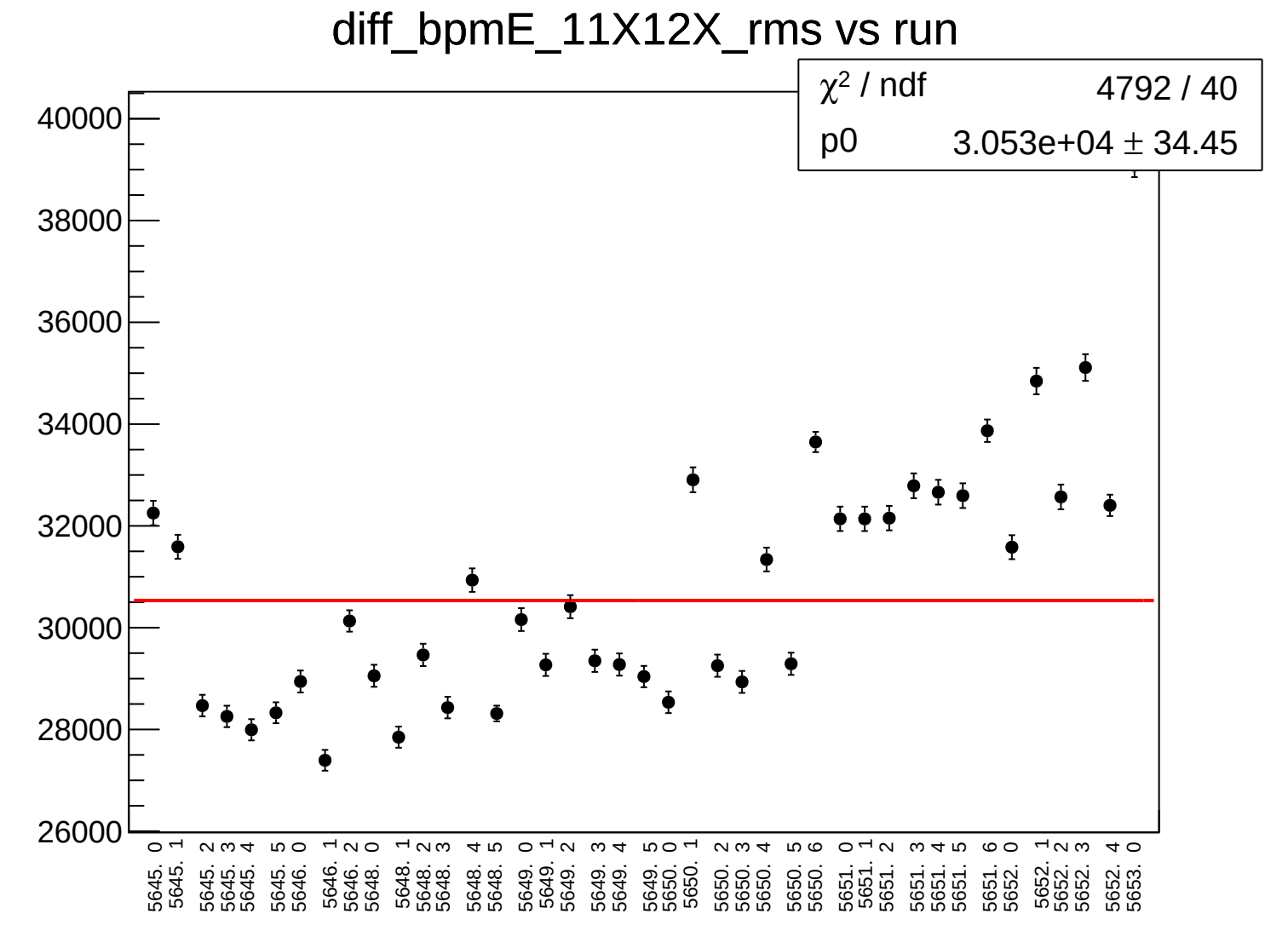

diff_bpmEX_mean vs run
χ² / ndf 45.61 / 40
p0 −43.01 ± 58.63
1000
500
0
−500
−1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.25
Std Dev 24.8
2
1
0
−1
−2

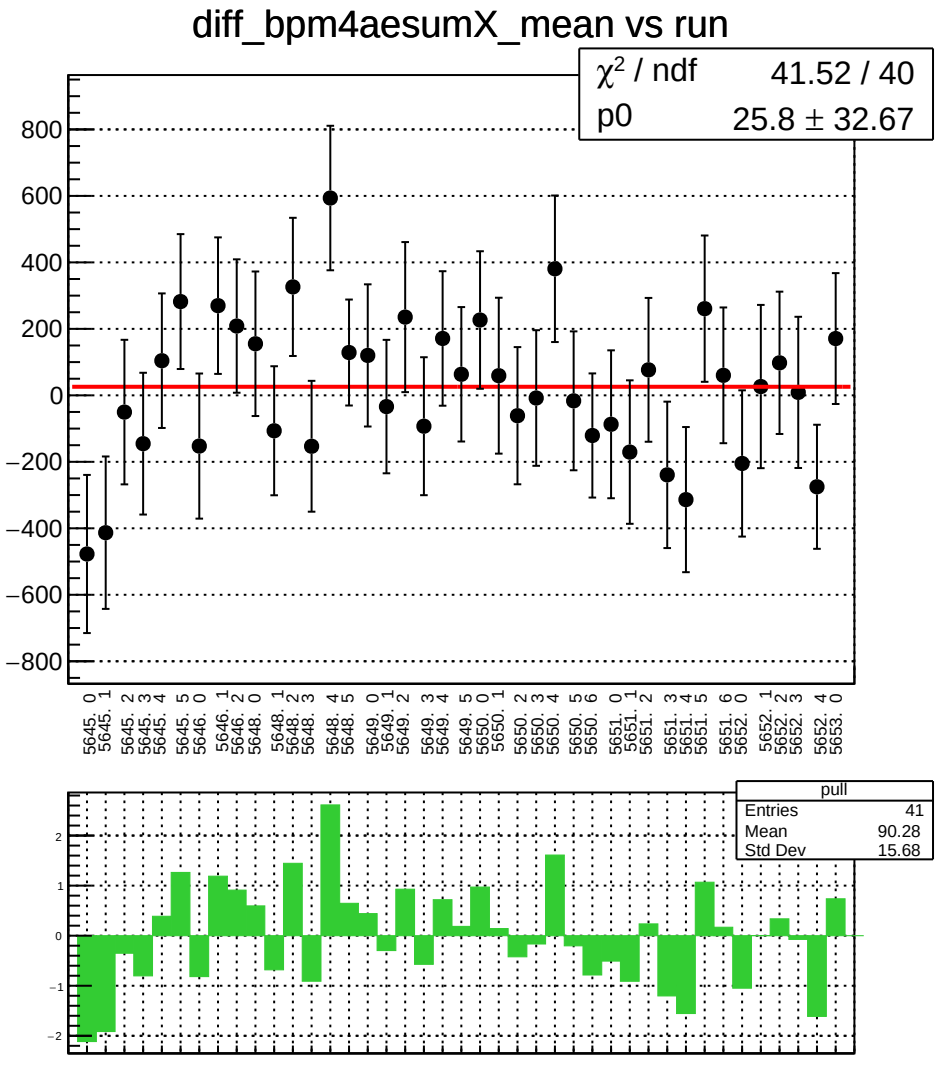

pull1D
Entries 41
Mean 0.0234
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

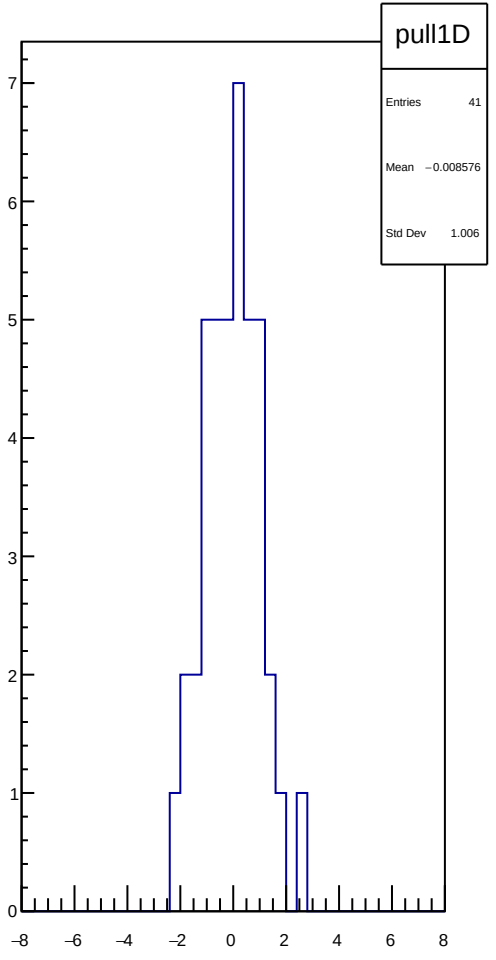

diff_bpmEX_rms vs run
χ² / ndf 4633 / 40
p0 3.675e+04 ± 41.46
48000
46000
44000
42000
40000
38000
36000
34000
32000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

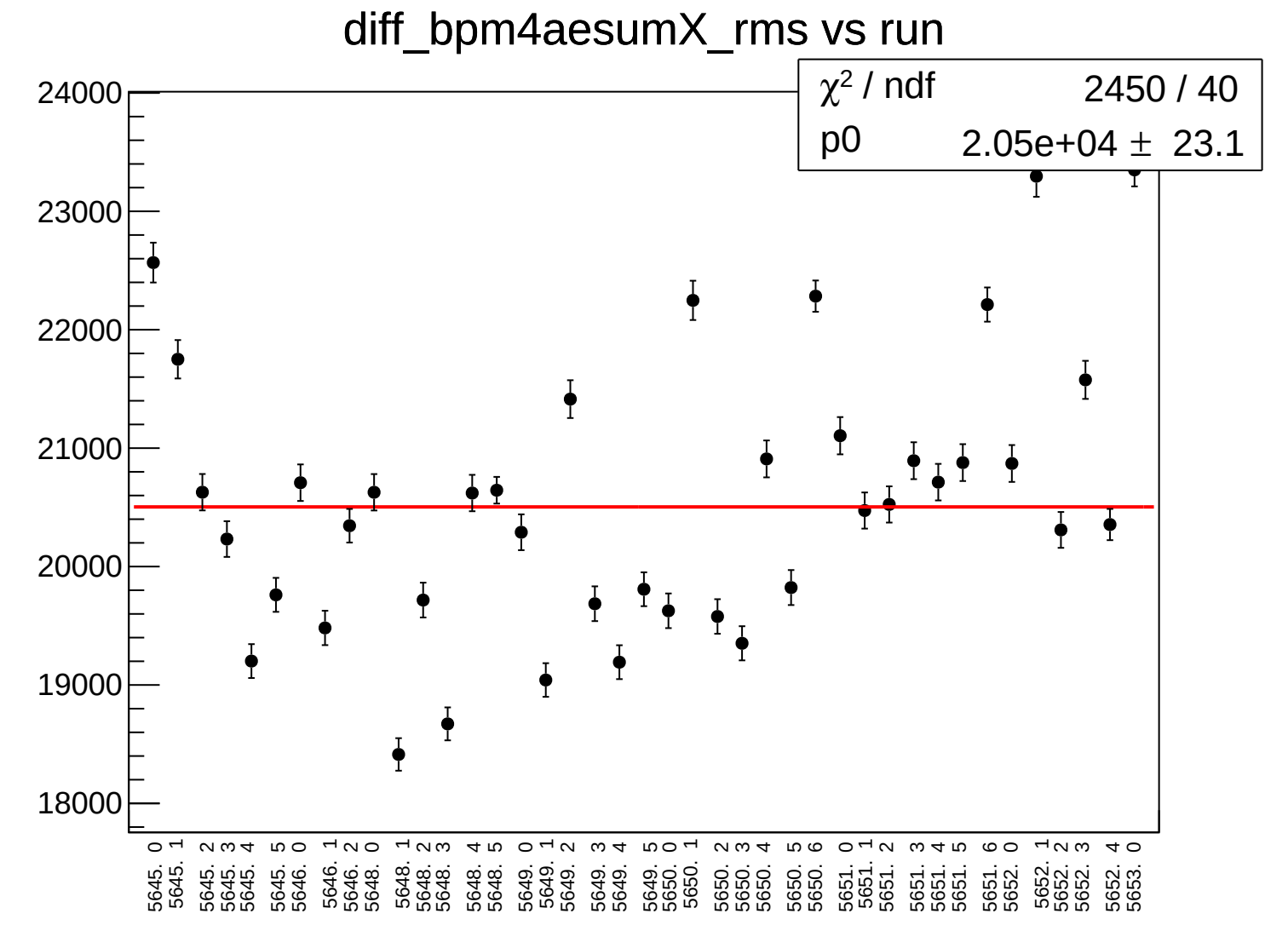

diff_bpmE_11X12X_mean vs run
χ² / ndf 47.32 / 40
p0 −31.7 ± 48.72
1000
500
0
−500
−1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.63
Std Dev 22.85
2
1
0
−1
−2

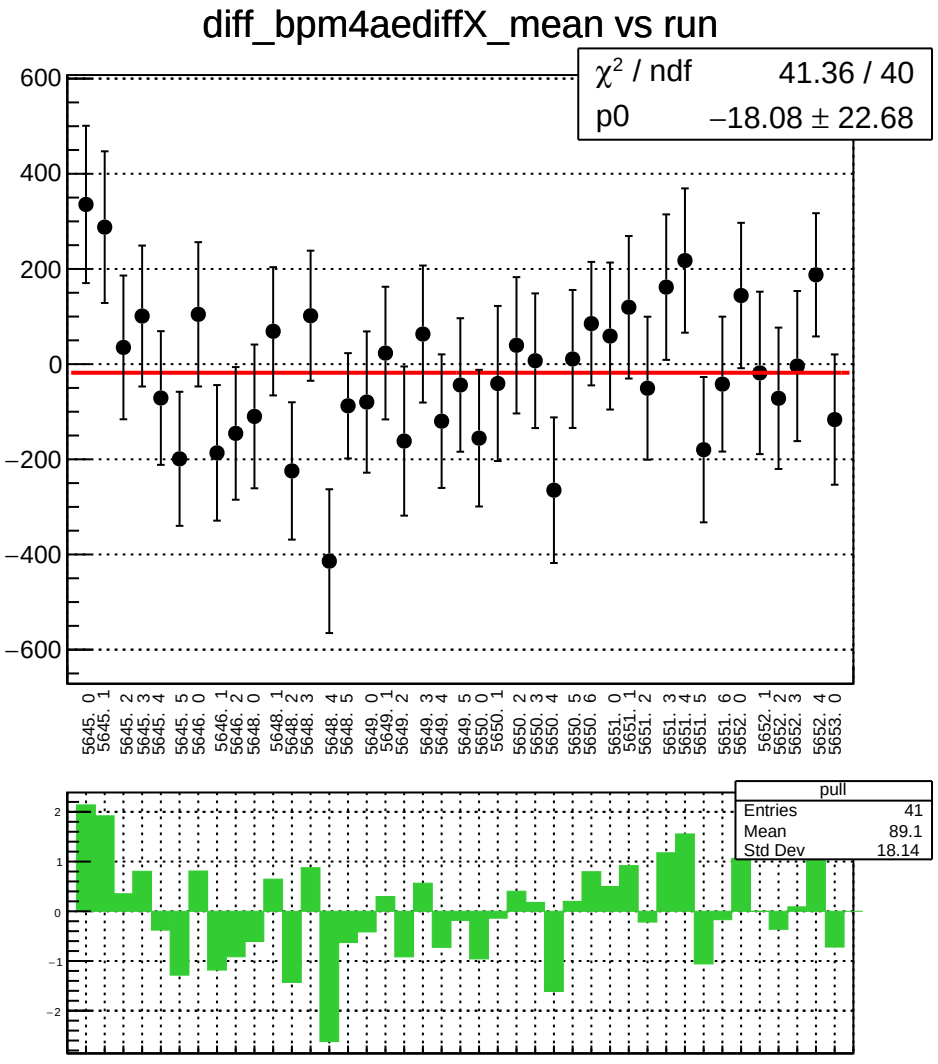

pull1D
Entries 41
Mean 0.02137
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

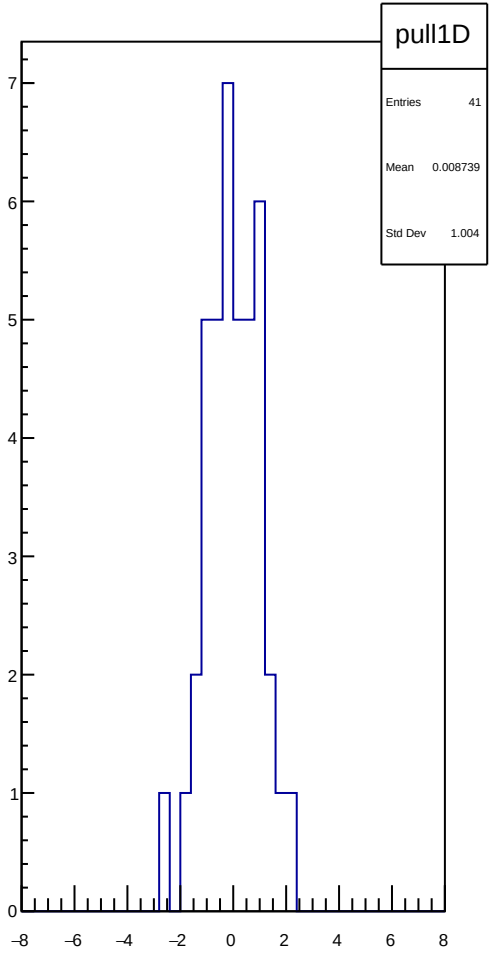

diff_bpmE_11X12X_rms vs run
χ² / ndf 4792 / 40
p0 3.053e+04 ± 34.45
40000
38000
36000
34000
32000
30000
28000
26000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

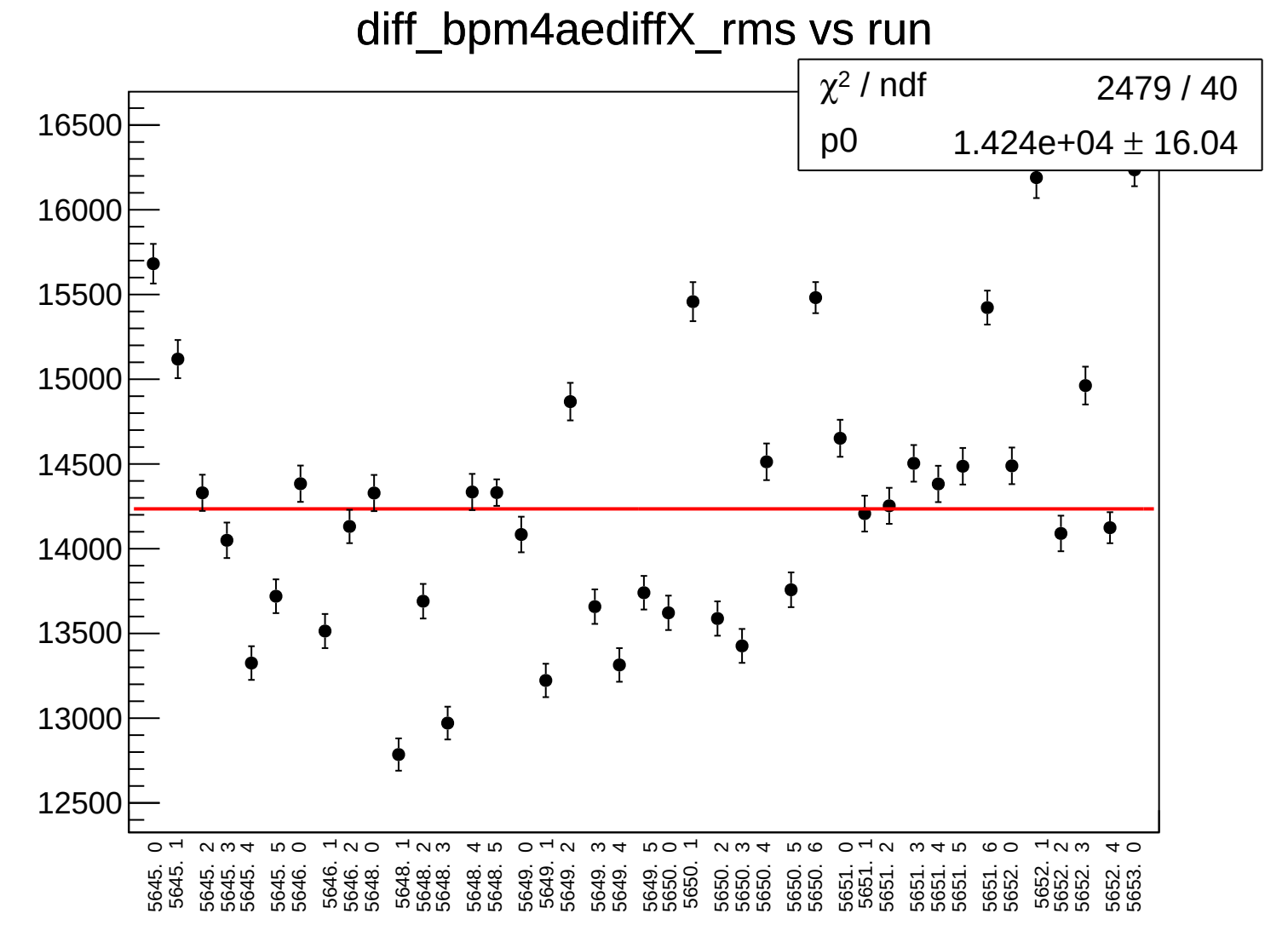

diff_bpm4aesumX_mean vs run
χ² / ndf 41.52 / 40
p0 25.8 ± 32.67
800
600
400
200
0
−200
−400
−600
−800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 90.28
Std Dev 15.68
2
1
0
−1
−2

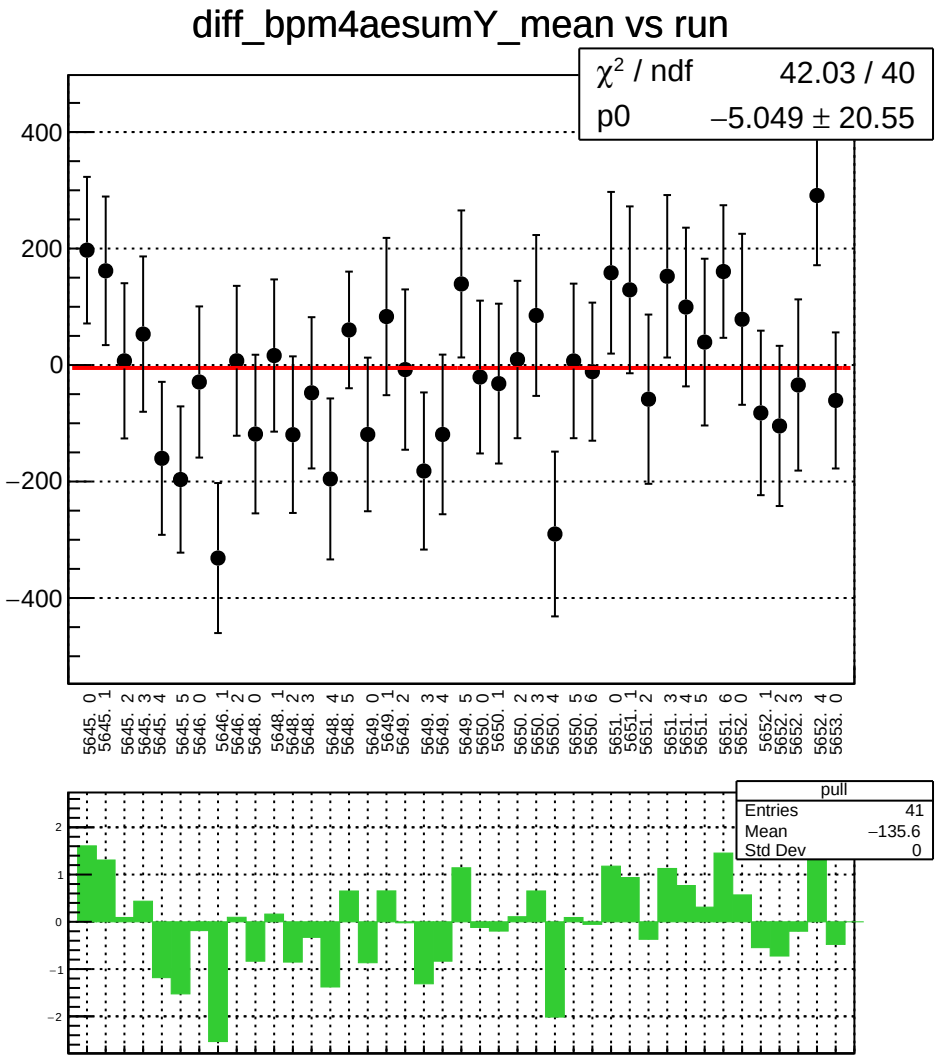

pull1D
Entries 41
Mean −0.008576
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

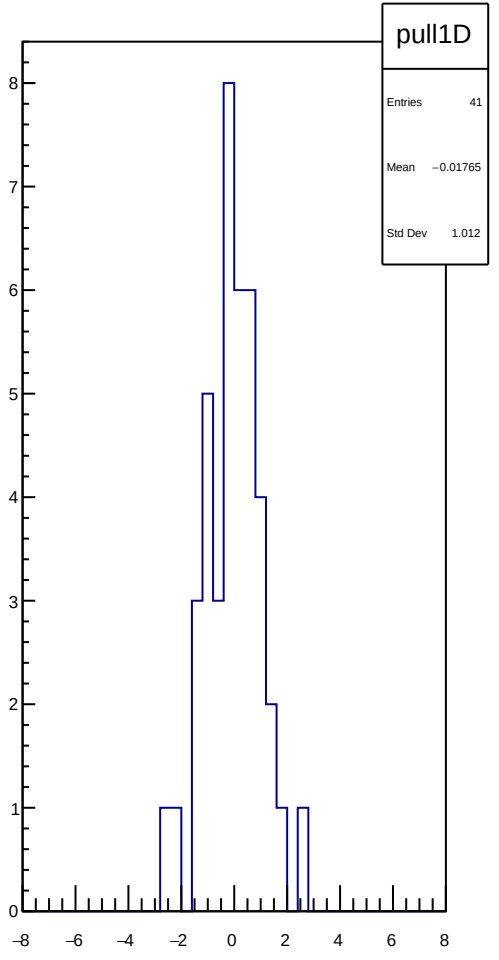

diff_bpm4aesumX_rms vs run
χ² / ndf 2450 / 40
p0 2.05e+04 ± 23.1
24000
23000
22000
21000
20000
19000
18000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

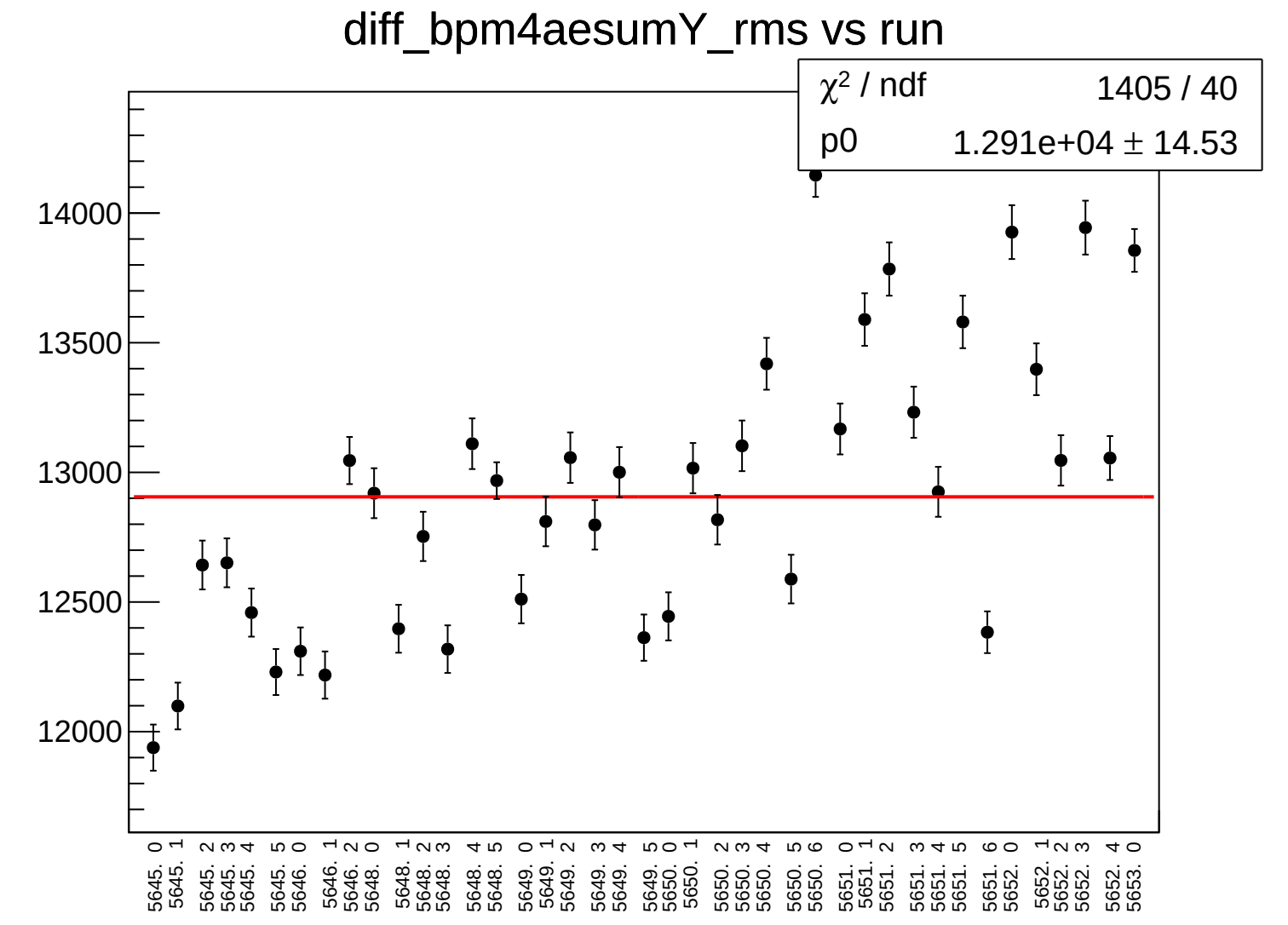

diff_bpm4aediffX_mean vs run
χ² / ndf 41.36 / 40
p0 −18.08 ± 22.68
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 89.1
Std Dev 18.14
2
1
0
−1
−2

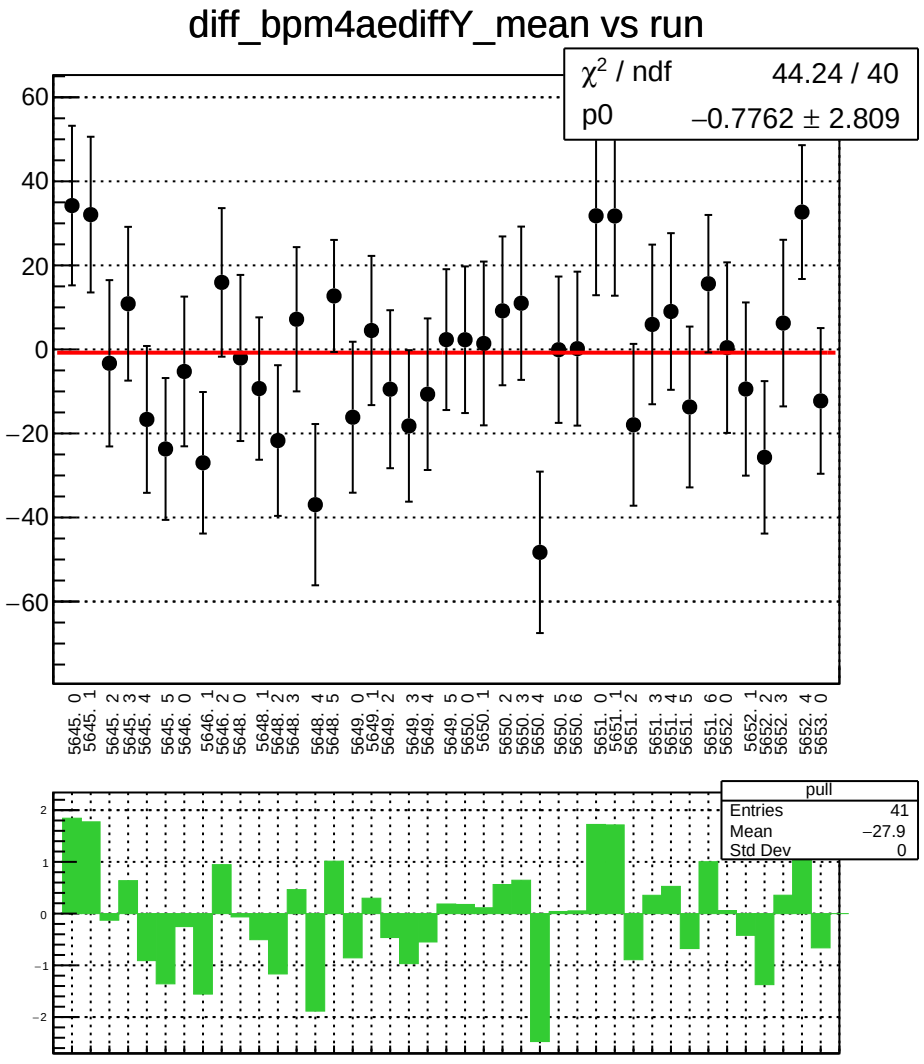

pull1D
Entries 41
Mean 0.008739
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

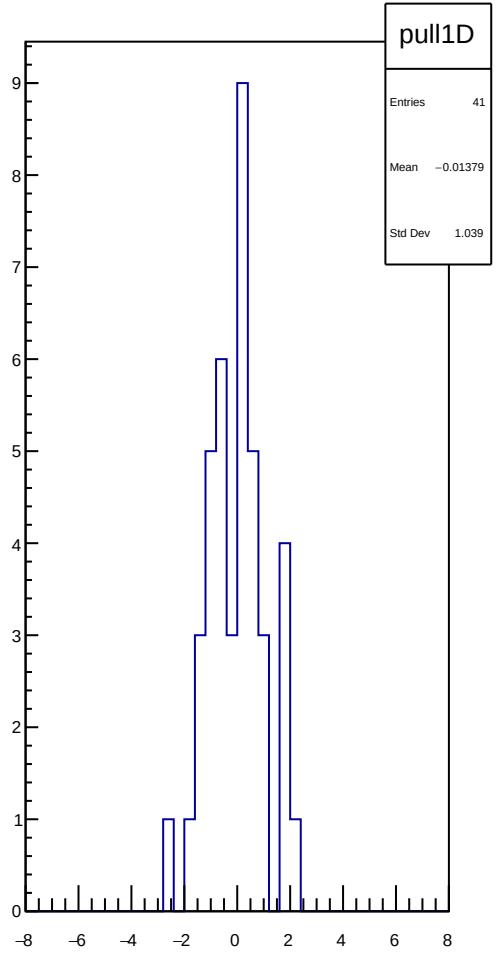

diff_bpm4aediffX_rms vs run
χ² / ndf 2479 / 40
p0 1.424e+04 ± 16.04
16500
16000
15500
15000
14500
14000
13500
13000
12500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

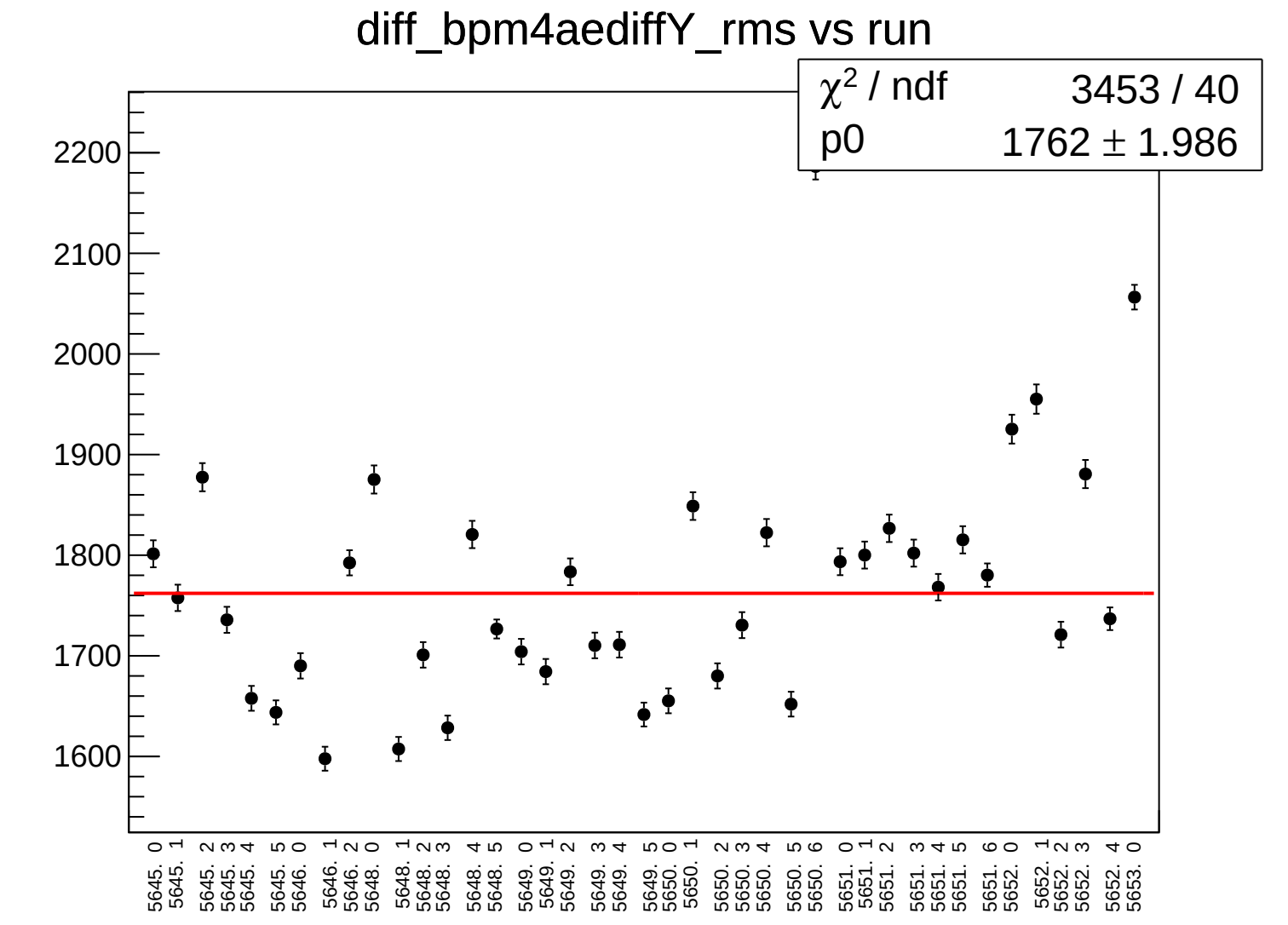

diff_bpm4aesumY_mean vs run
χ² / ndf 42.03 / 40
p0 −5.049 ± 20.55
400
200
0
−200
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −135.6
Std Dev 0
2
1
0
−1
−2

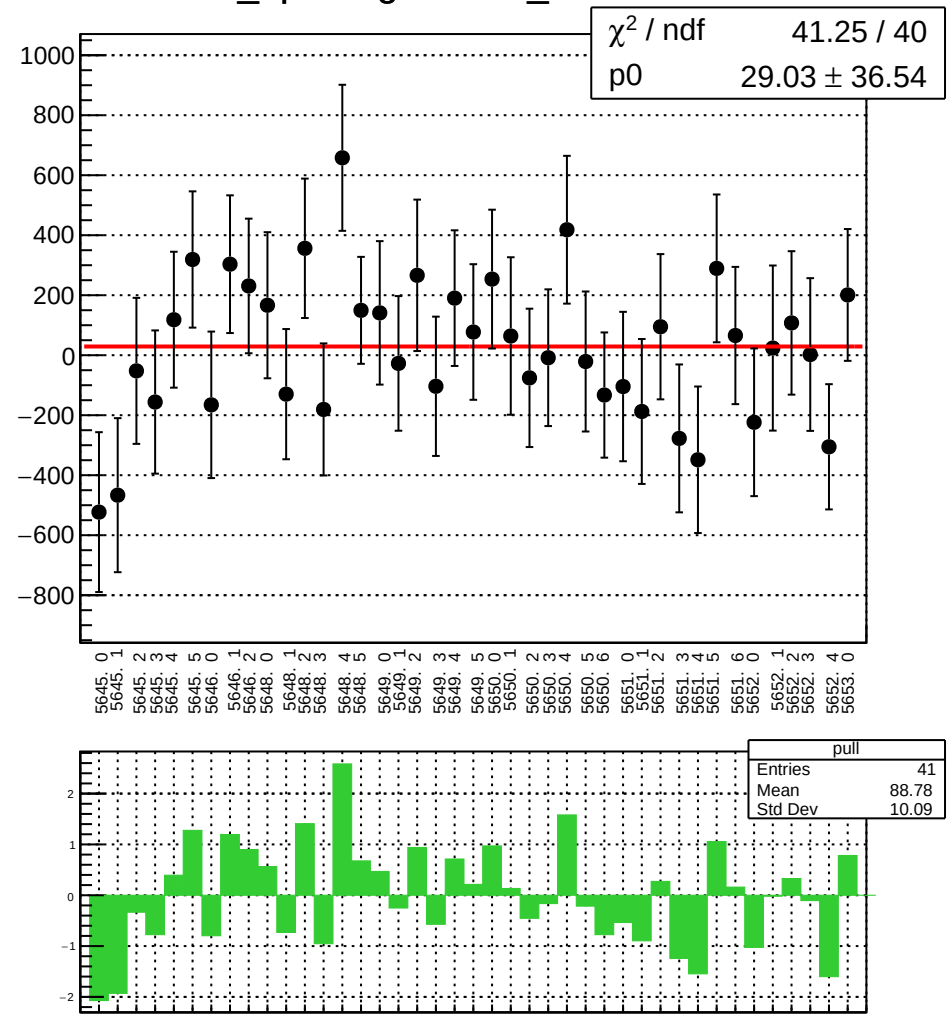

pull1D
Entries 41
Mean −0.01765
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

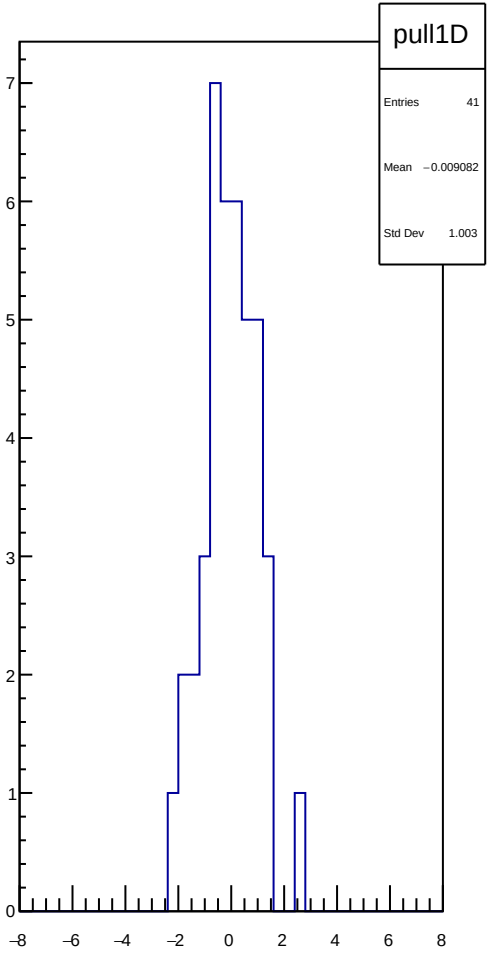

diff_bpm4aesumY_rms vs run
χ² / ndf 1405 / 40
p0 1.291e+04 ± 14.53
14000
13500
13000
12500
12000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

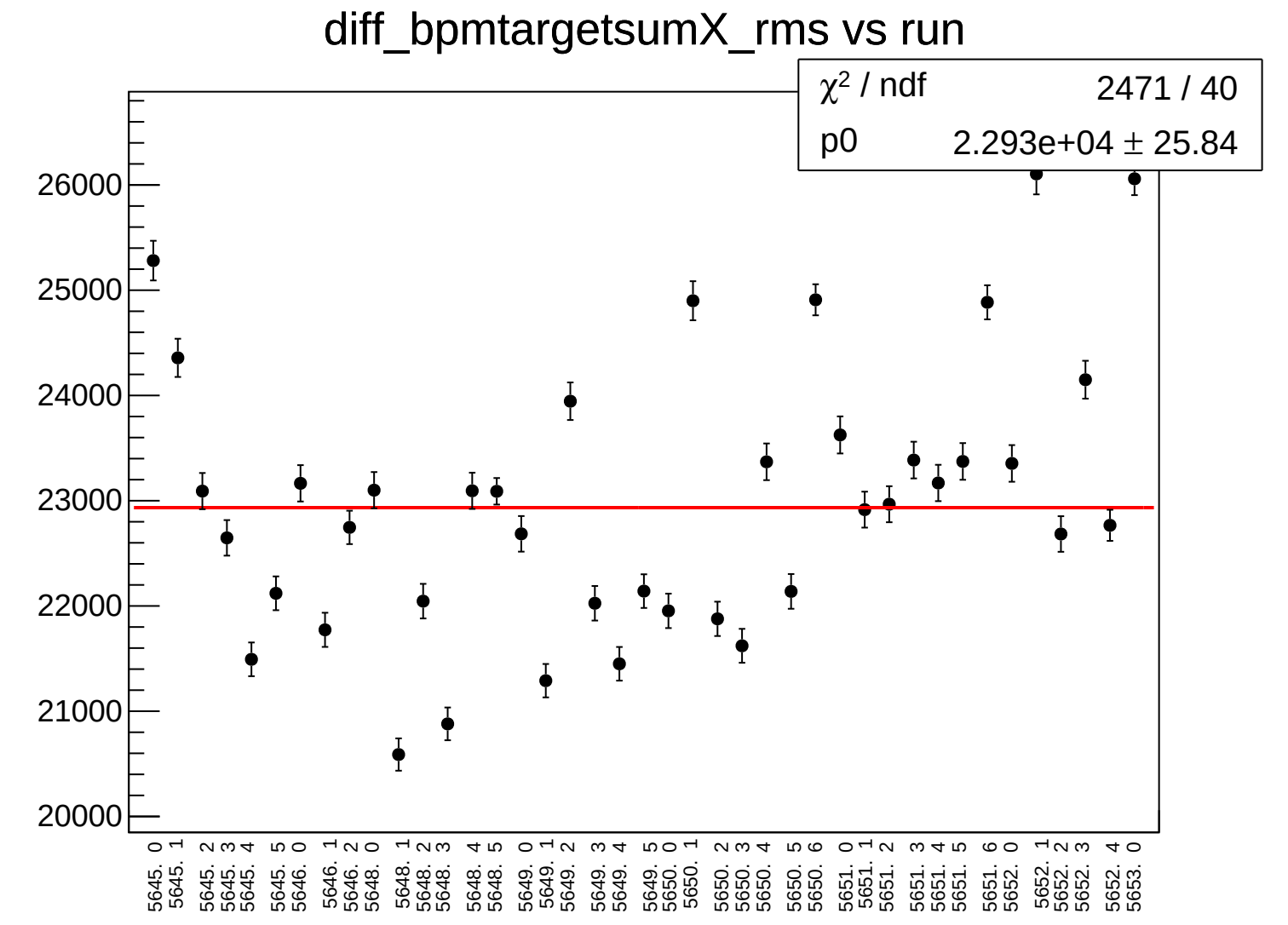

diff_bpm4aediffY_mean vs run
χ² / ndf 44.24 / 40
p0 −0.7762 ± 2.809
pull
Entries 41
Mean −27.9
Std Dev 0

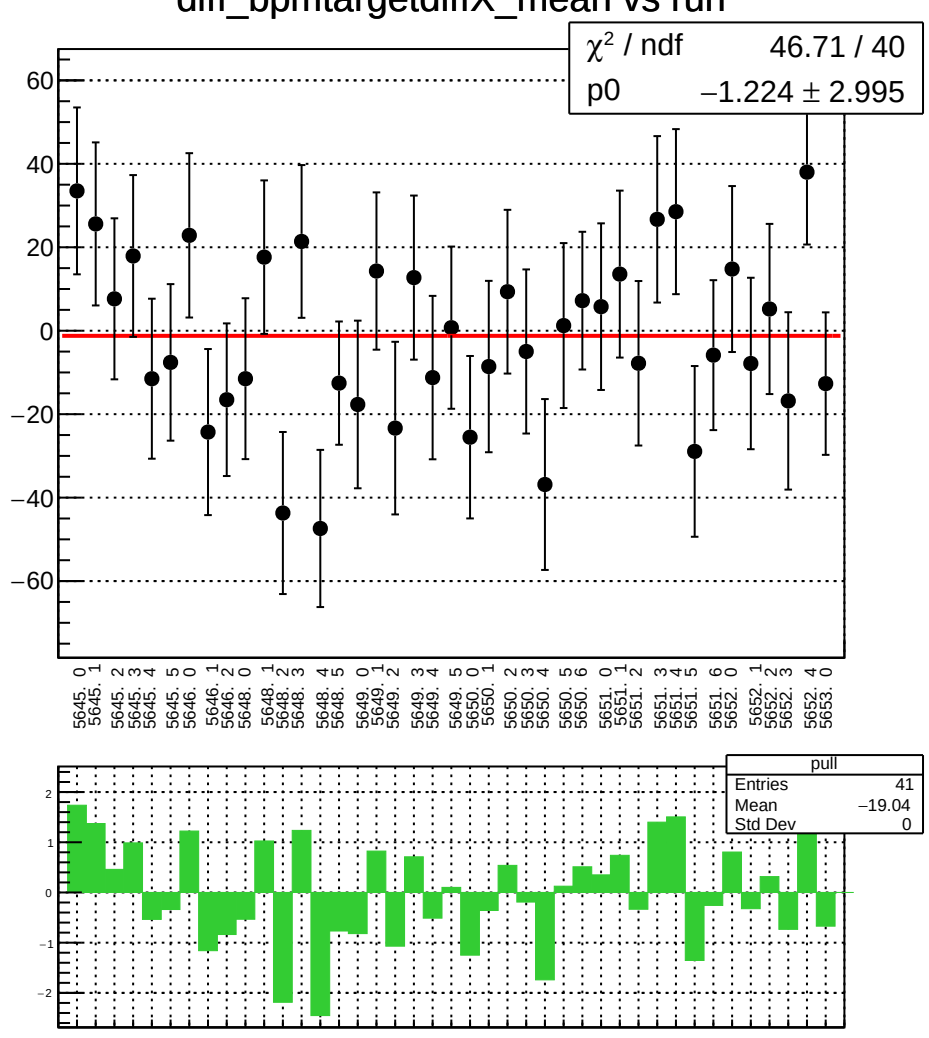

pull1D
Entries 41
Mean −0.01379
Std Dev 1.039

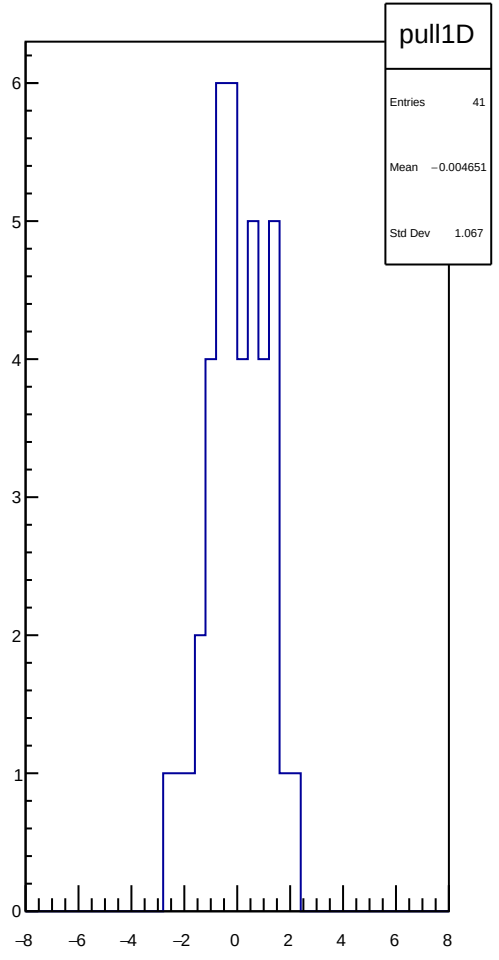

diff_bpm4aediffY_rms vs run
χ² / ndf 3453 / 40
p0 1762 ± 1.986
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

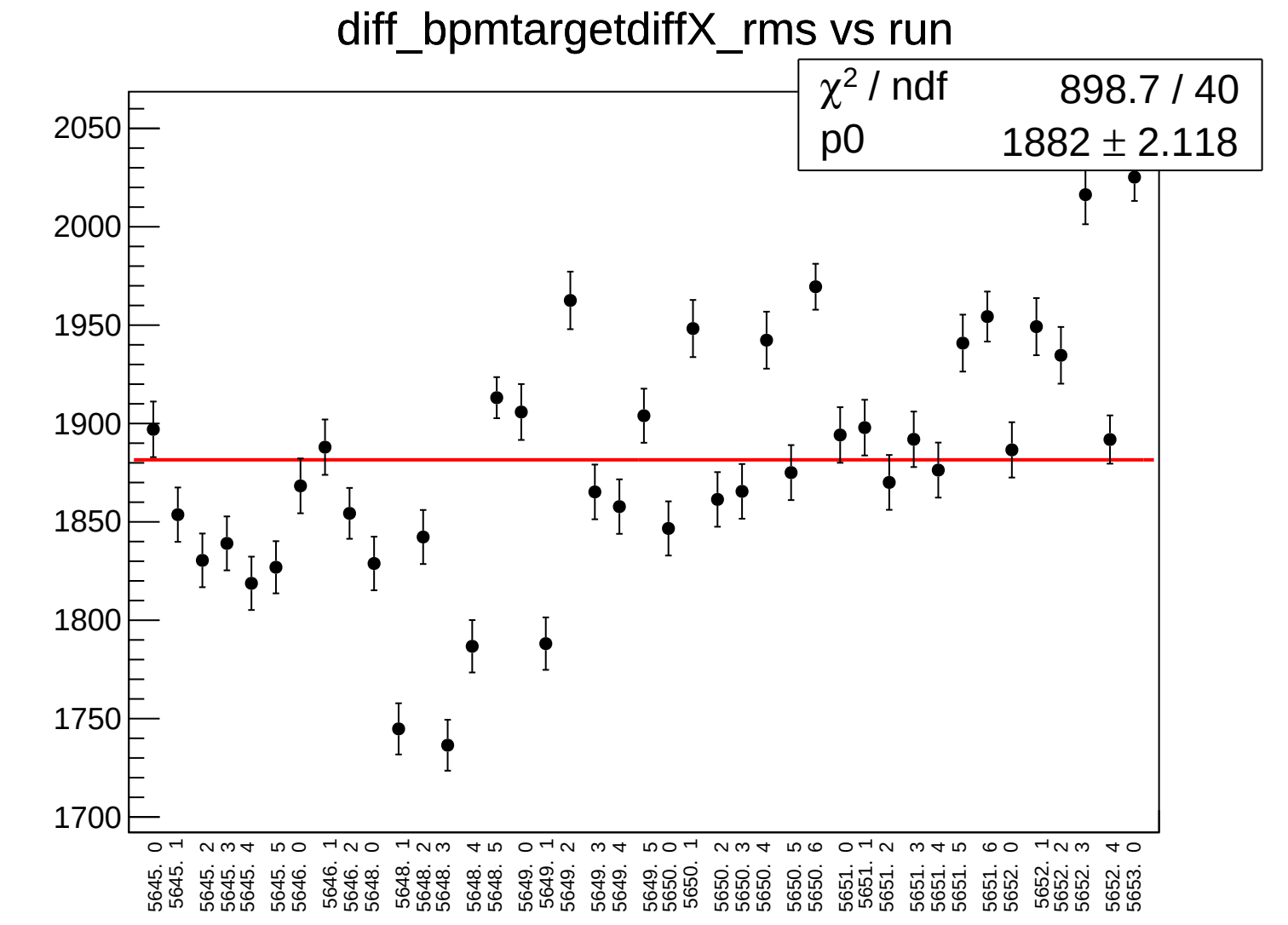

diff_bpmtargetsumX_mean vs run
χ² / ndf 41.25 / 40
p0 29.03 ± 36.54
pull
Entries 41
Mean 88.78
Std Dev 10.09

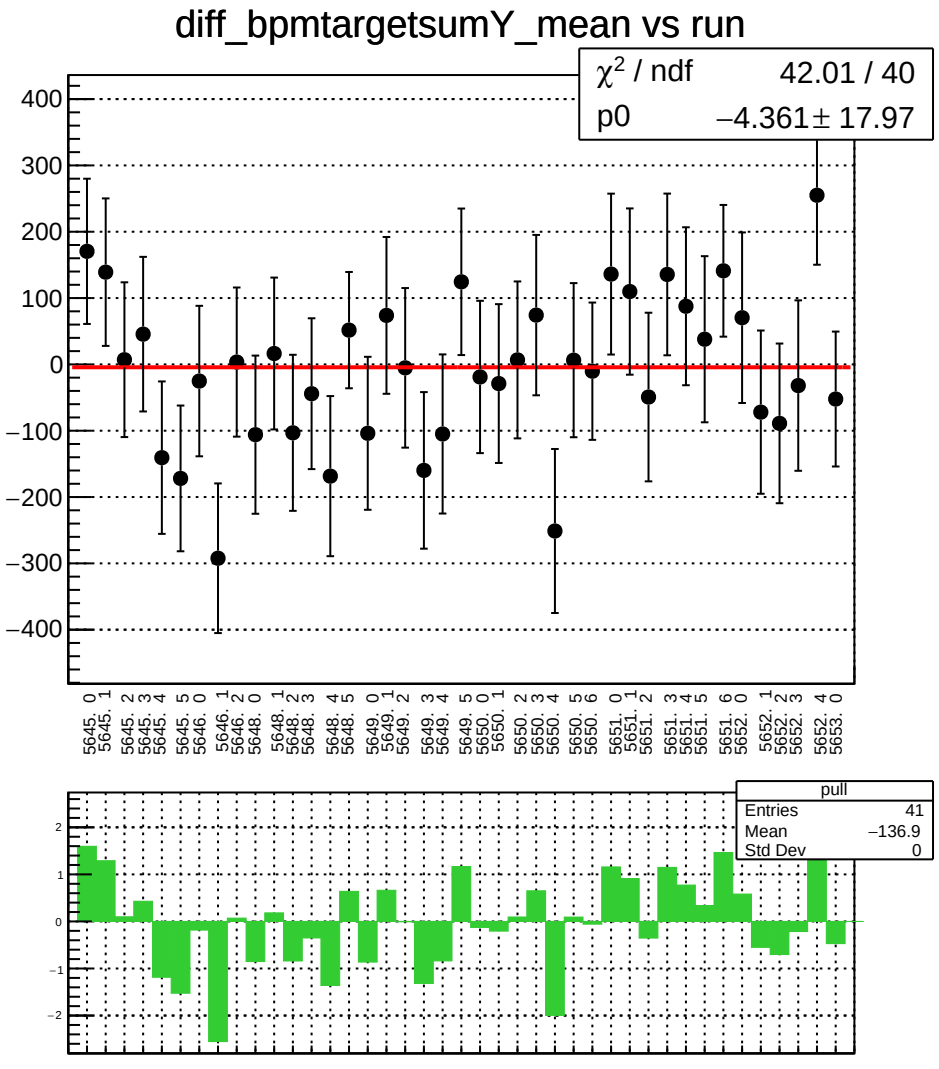

pull1D
Entries 41
Mean −0.009082
Std Dev 1.003

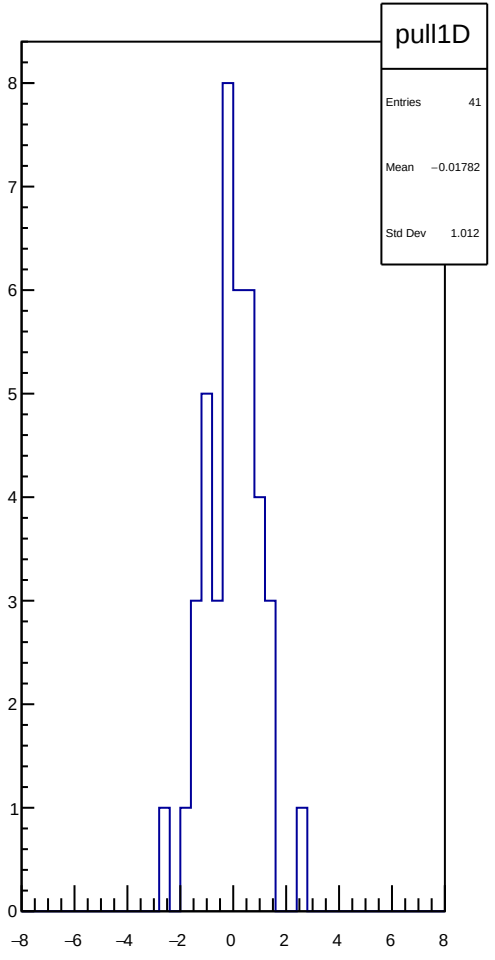

diff_bpmtargetsumX_rms vs run
χ² / ndf 2471 / 40
p0 2.293e+04 ± 25.84
26000
25000
24000
23000
22000
21000
20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

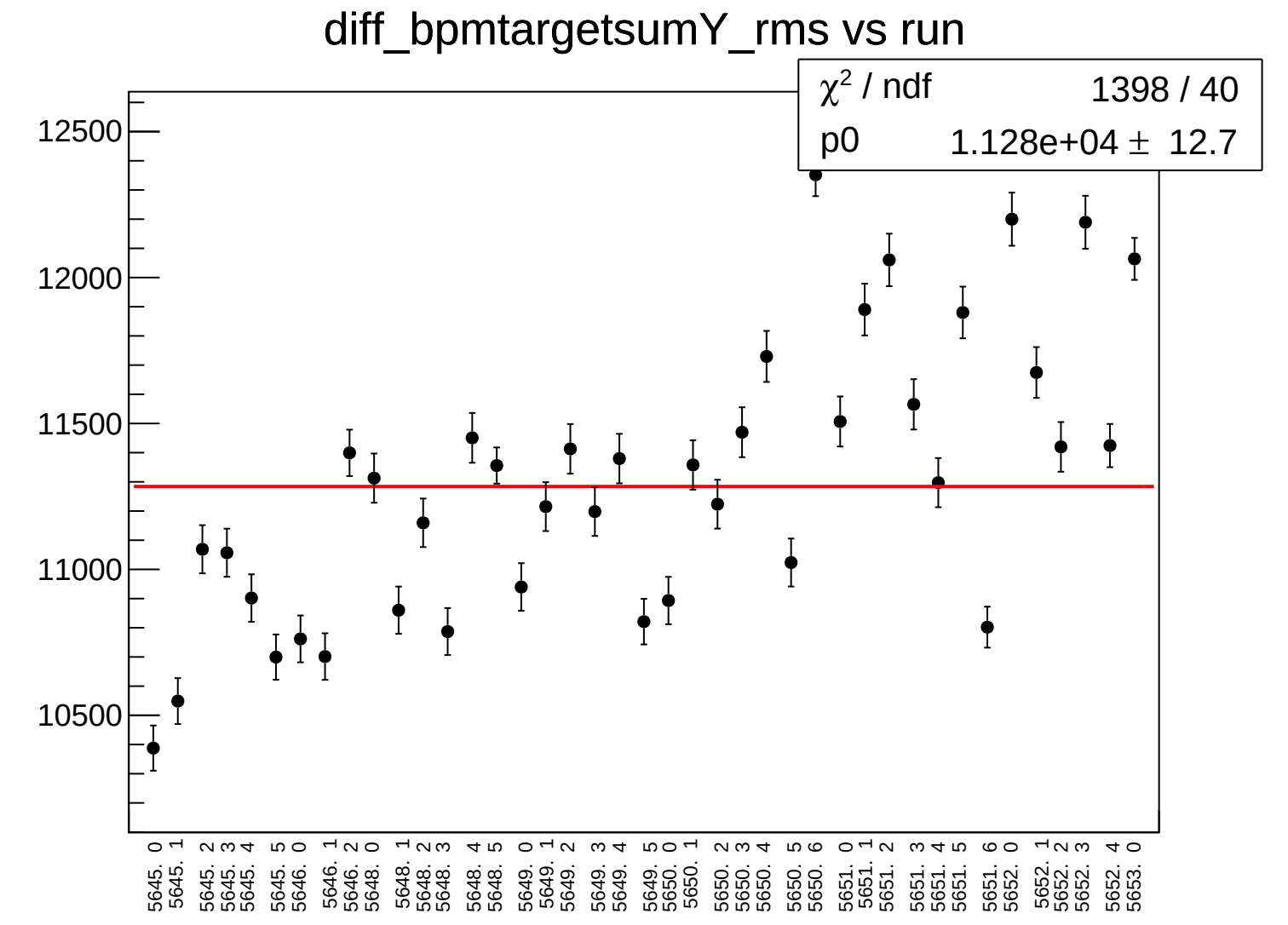

diff_bpmtargetdiffX_mean vs run
χ² / ndf 46.71 / 40
p0 −1.224 ± 2.995
pull
Entries 41
Mean −19.04
Std Dev 0

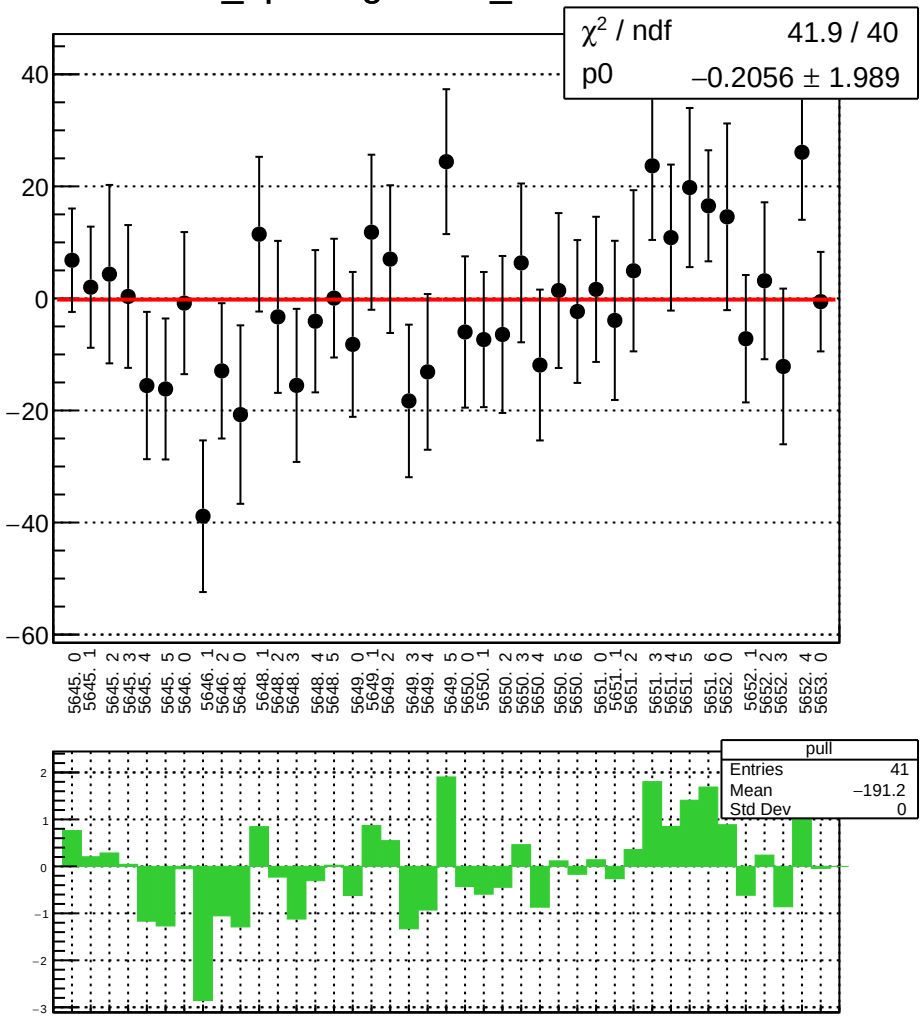

pull1D
Entries 41
Mean −0.004651
Std Dev 1.067

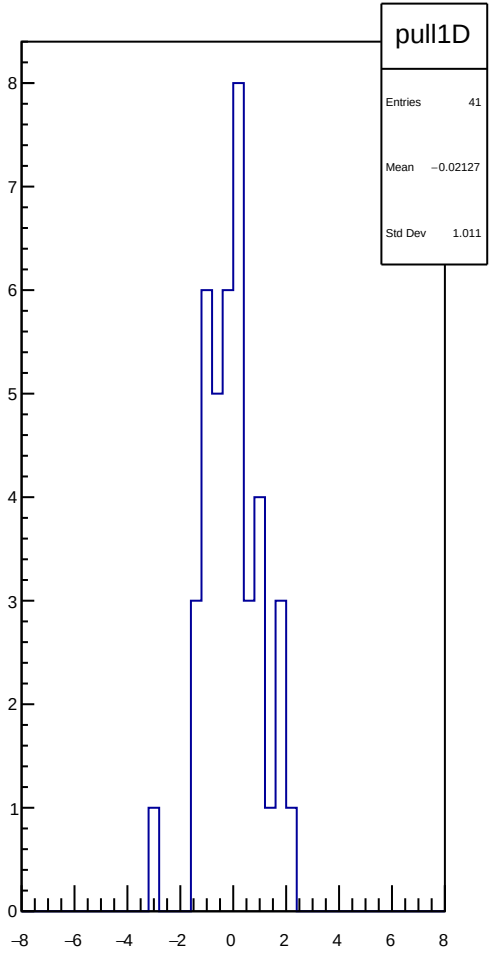

diff_bpmtargetdiffX_rms vs run
χ² / ndf 898.7 / 40
p0 1882 ± 2.118
2050
2000
1950
1900
1850
1800
1750
1700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

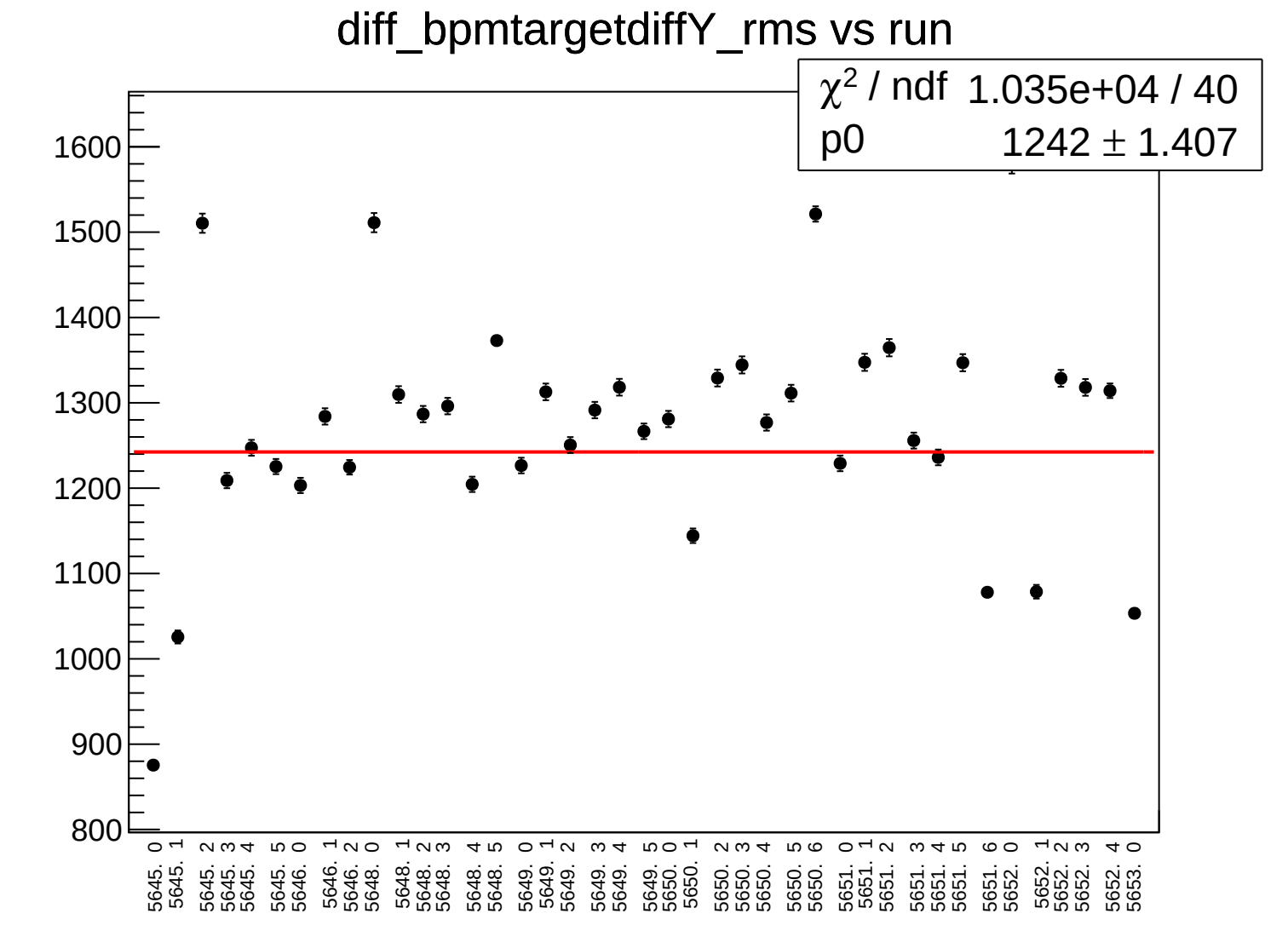

diff_bpmtargetsumY_mean vs run
χ² / ndf 42.01 / 40
p0 −4.361 ± 17.97
pull
Entries 41
Mean −136.9
Std Dev 0

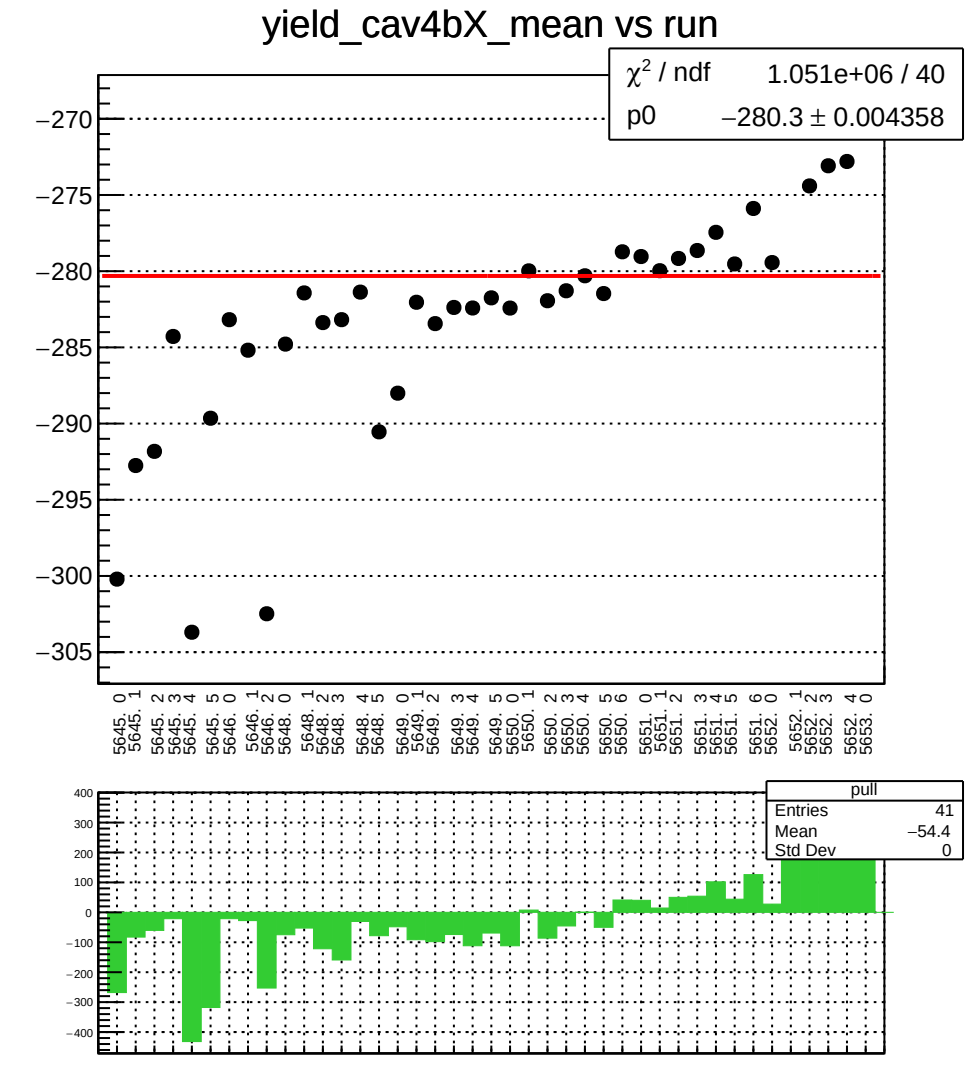

pull1D
Entries 41
Mean −0.01782
Std Dev 1.012

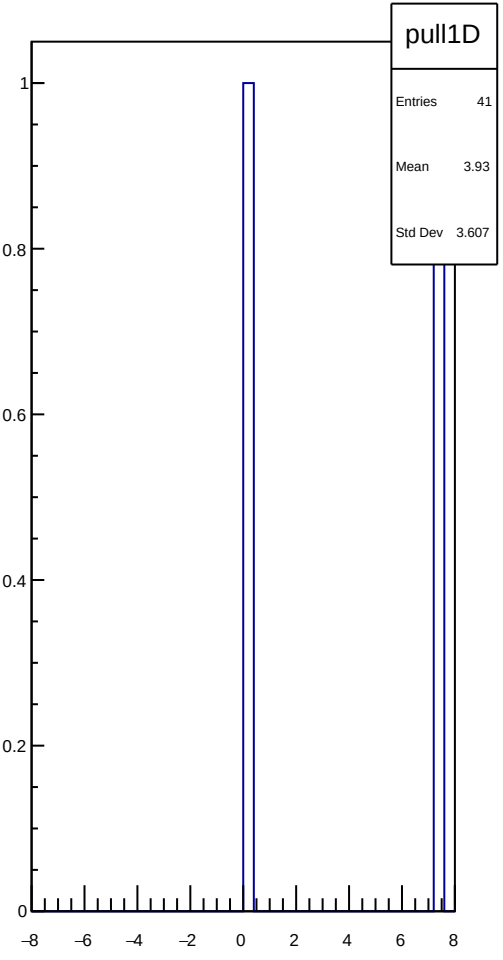

diff_bpmtargetsumY_rms vs run
χ² / ndf 1398 / 40
p0 1.128e+04 ± 12.7
12500
12000
11500
11000
10500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

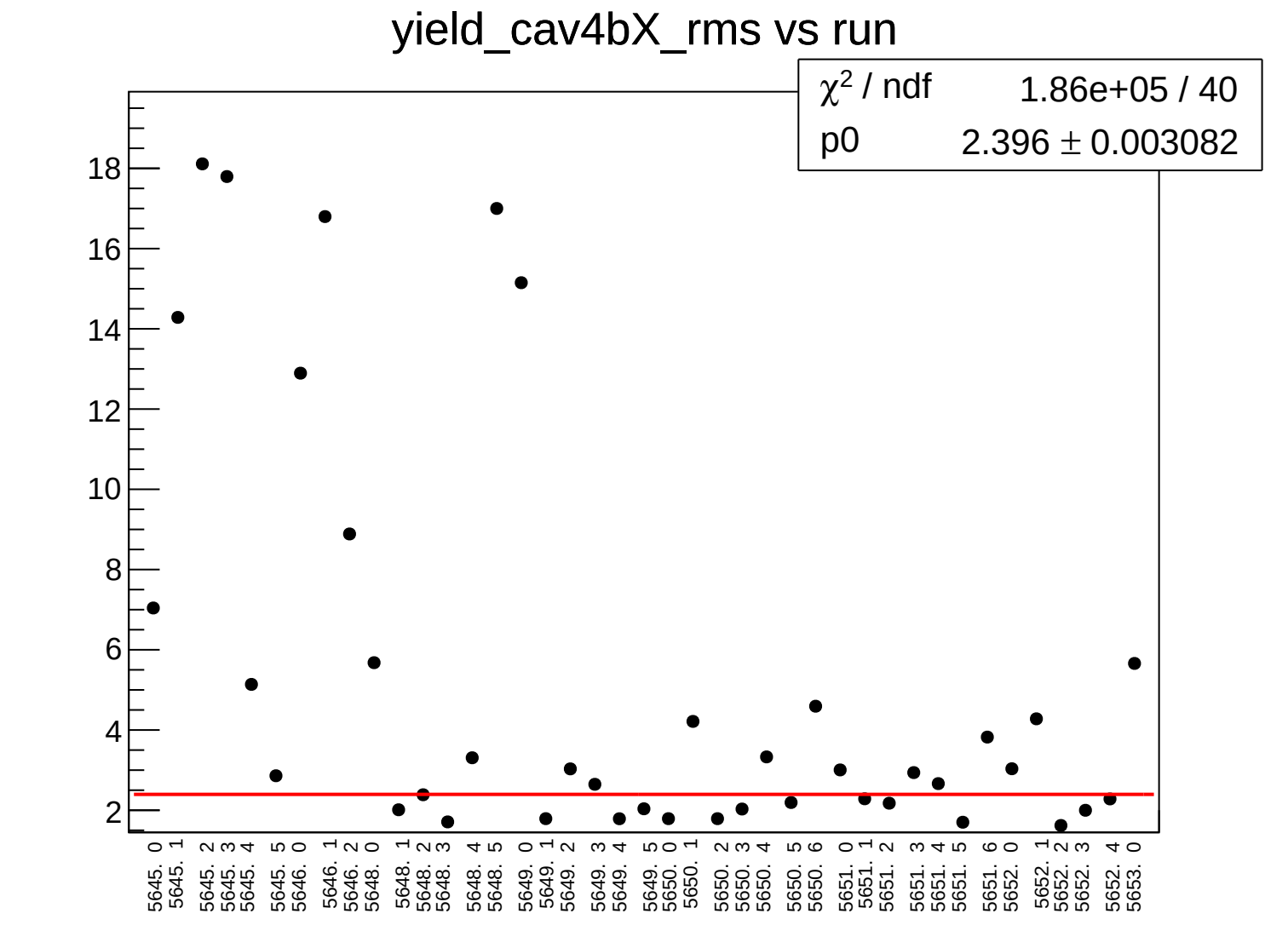

diff_bpmtargetdiffY_mean vs run
χ² / ndf 41.9 / 40
p0 −0.2056 ± 1.989
pull
Entries 41
Mean −191.2
Std Dev 0

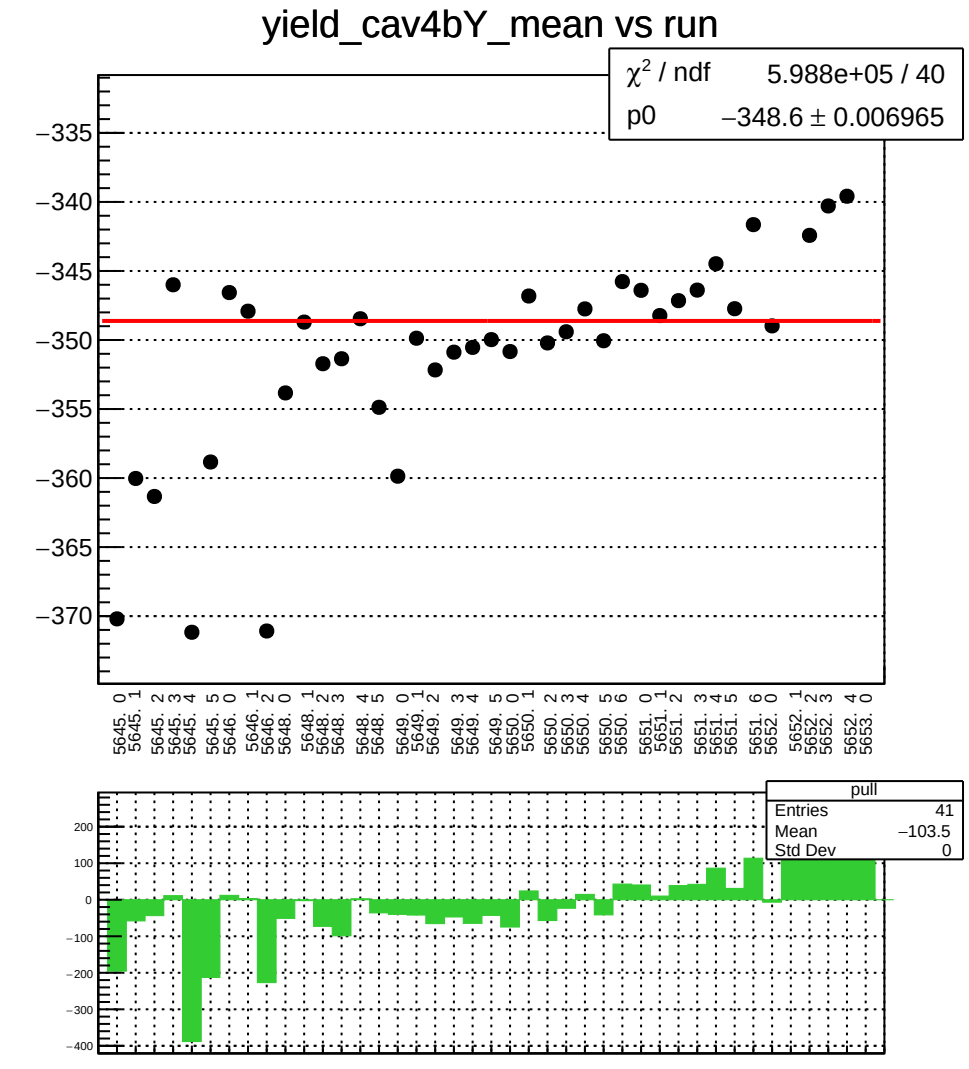

pull1D
Entries 41
Mean −0.02127
Std Dev 1.011

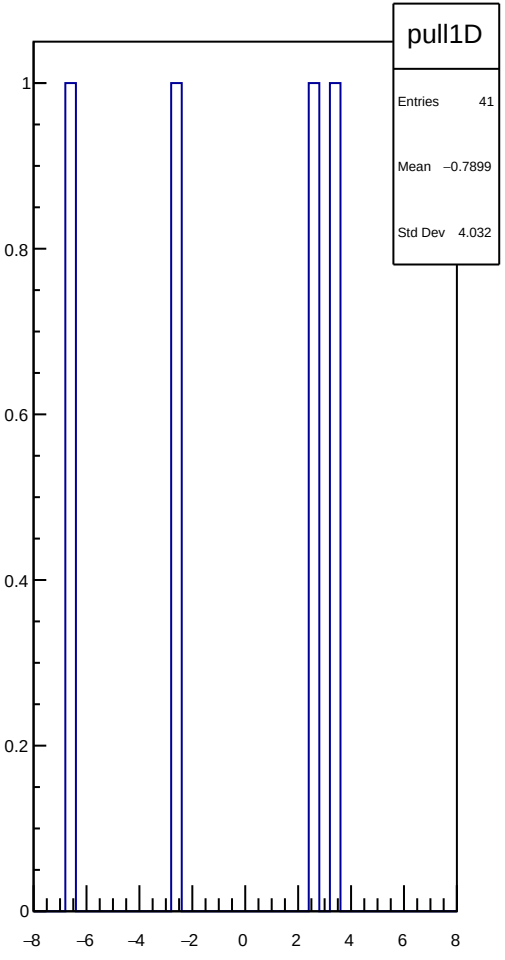

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.035e+04 / 40
p0 1242 ± 1.407
1600
1500
1400
1300
1200
1100
1000
900
800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

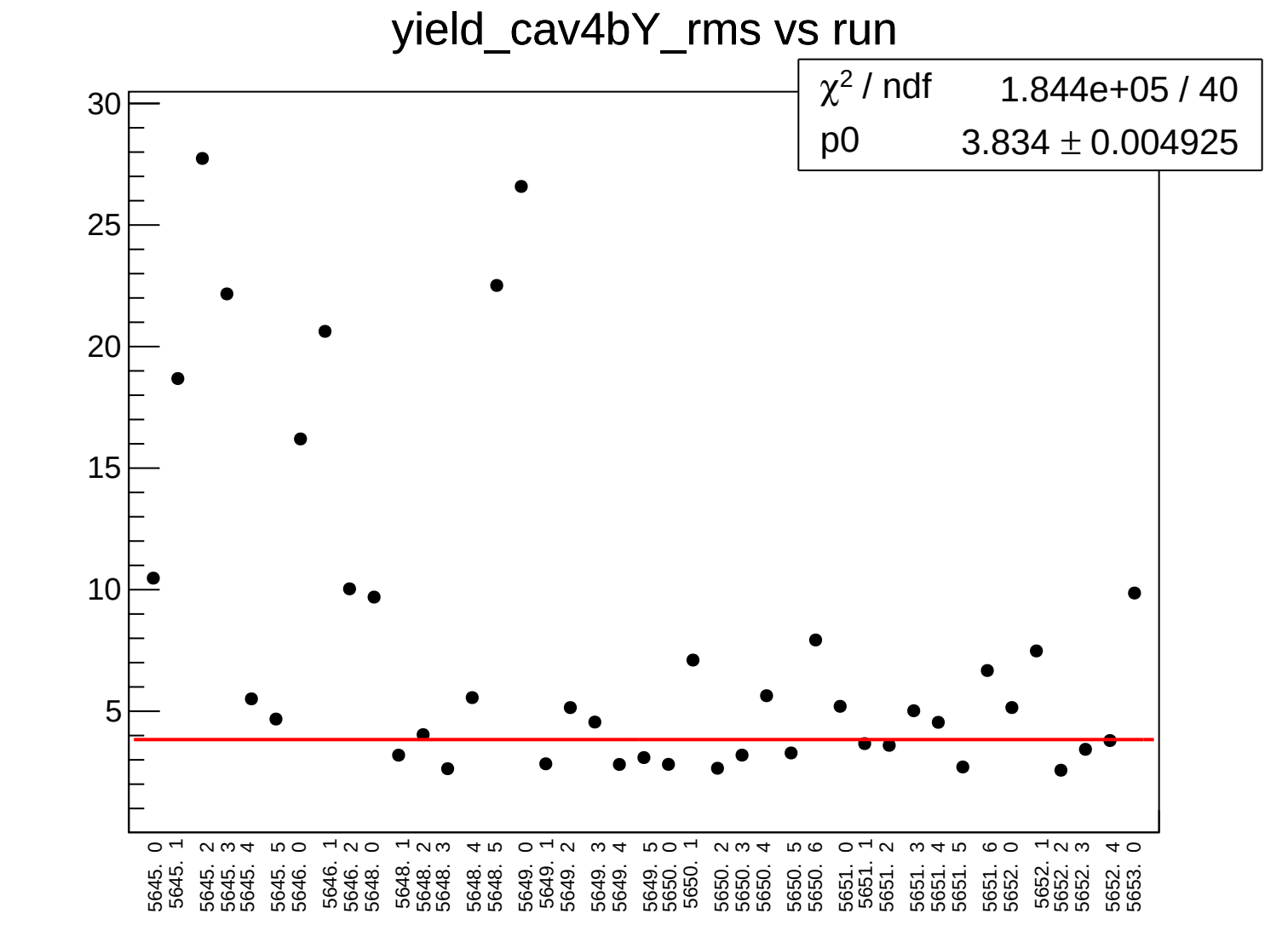

yield_cav4bX_mean vs run
χ² / ndf 1.051e+06 / 40
p0 −280.3 ± 0.004358
−270
−275
−280
−285
−290
−295
−300
−305
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −54.4
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

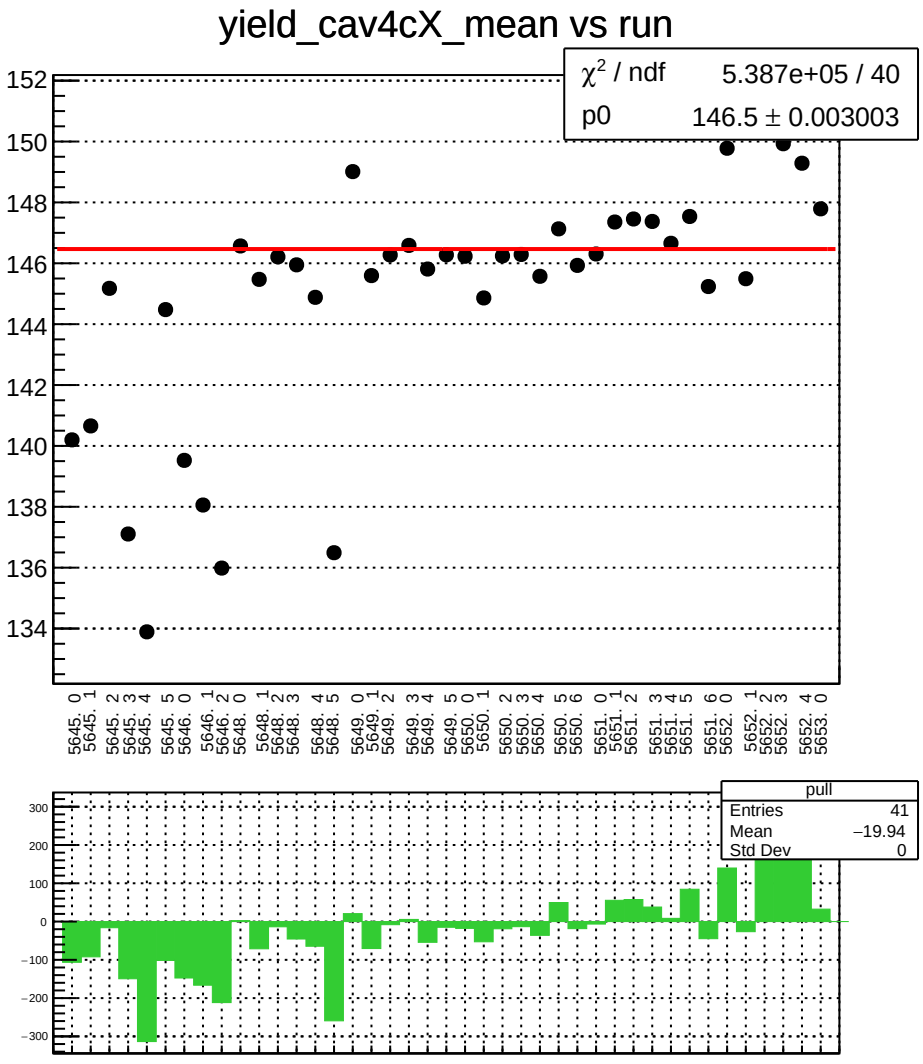

pull1D
Entries 41
Mean 3.93
Std Dev 3.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

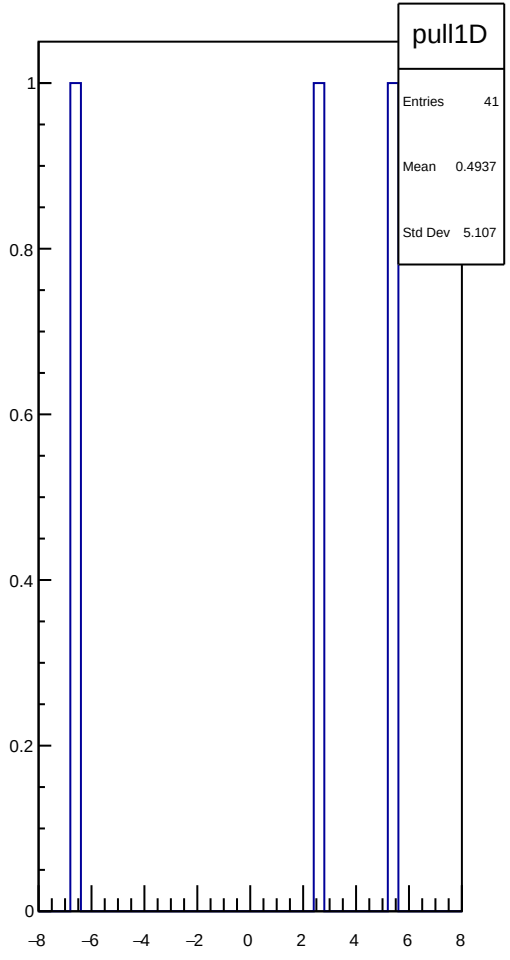

yield_cav4bX_rms vs run
χ² / ndf 1.86e+05 / 40
p0 2.396 ± 0.003082
18
16
14
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

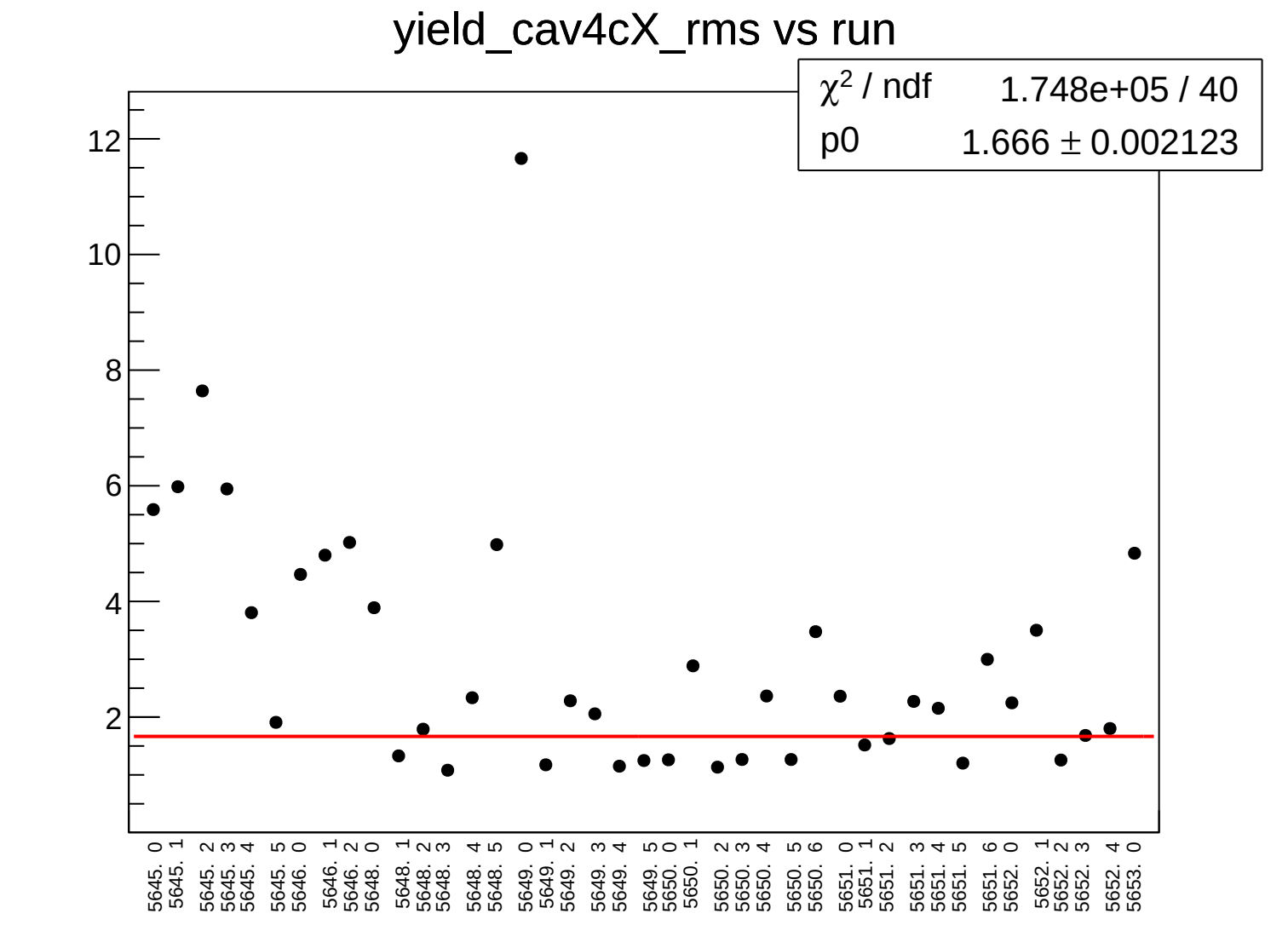

yield_cav4bY_mean vs run
χ² / ndf 5.988e+05 / 40
p0 −348.6 ± 0.006965
−335
−340
−345
−350
−355
−360
−365
−370
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −103.5
Std Dev 0
200
100
0
−100
−200
−300
−400

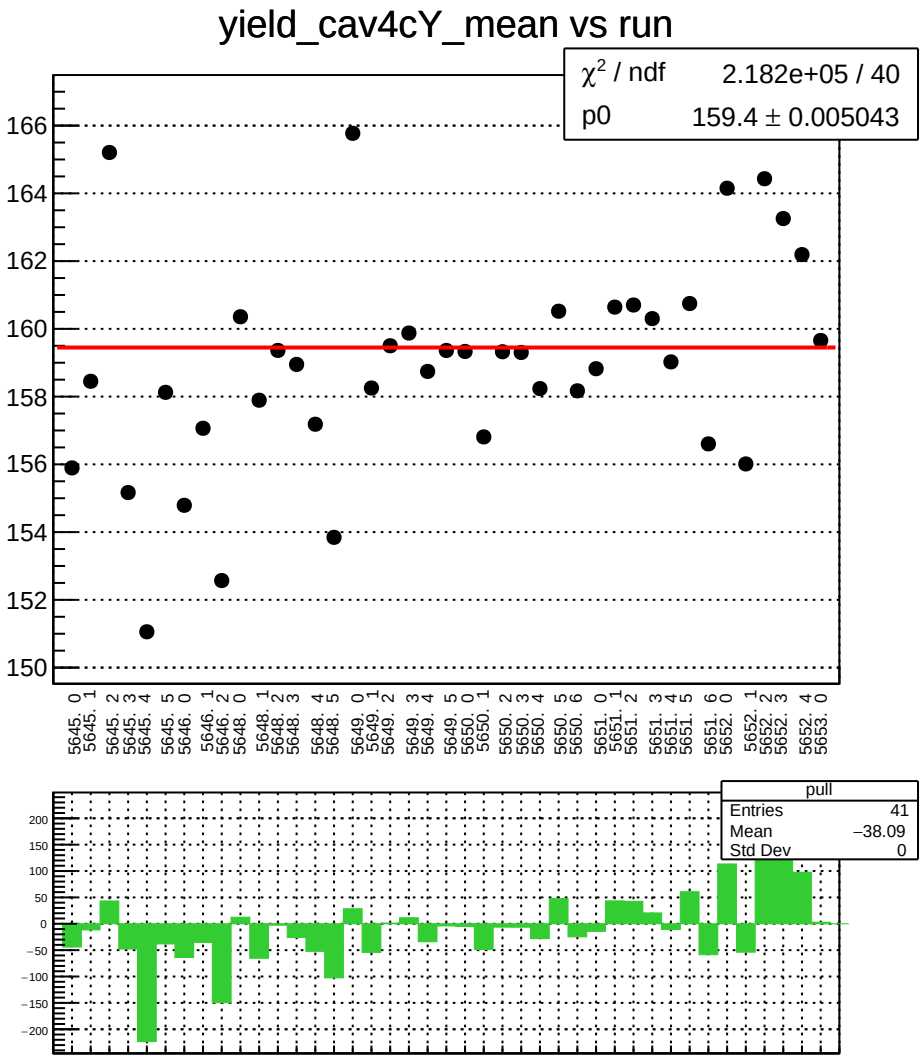

pull1D
Entries 41
Mean −0.7899
Std Dev 4.032
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

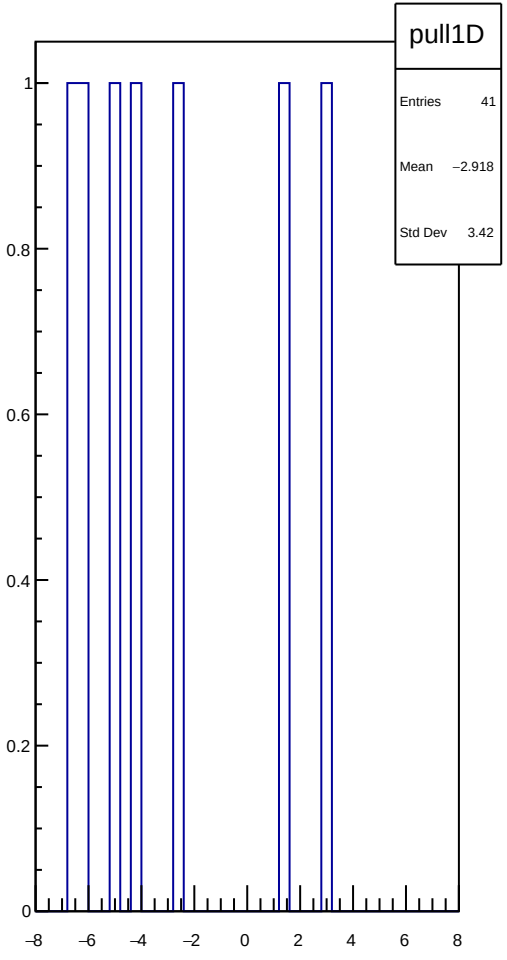

yield_cav4bY_rms vs run
χ² / ndf 1.844e+05 / 40
p0 3.834 ± 0.004925
30
25
20
15
10
5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

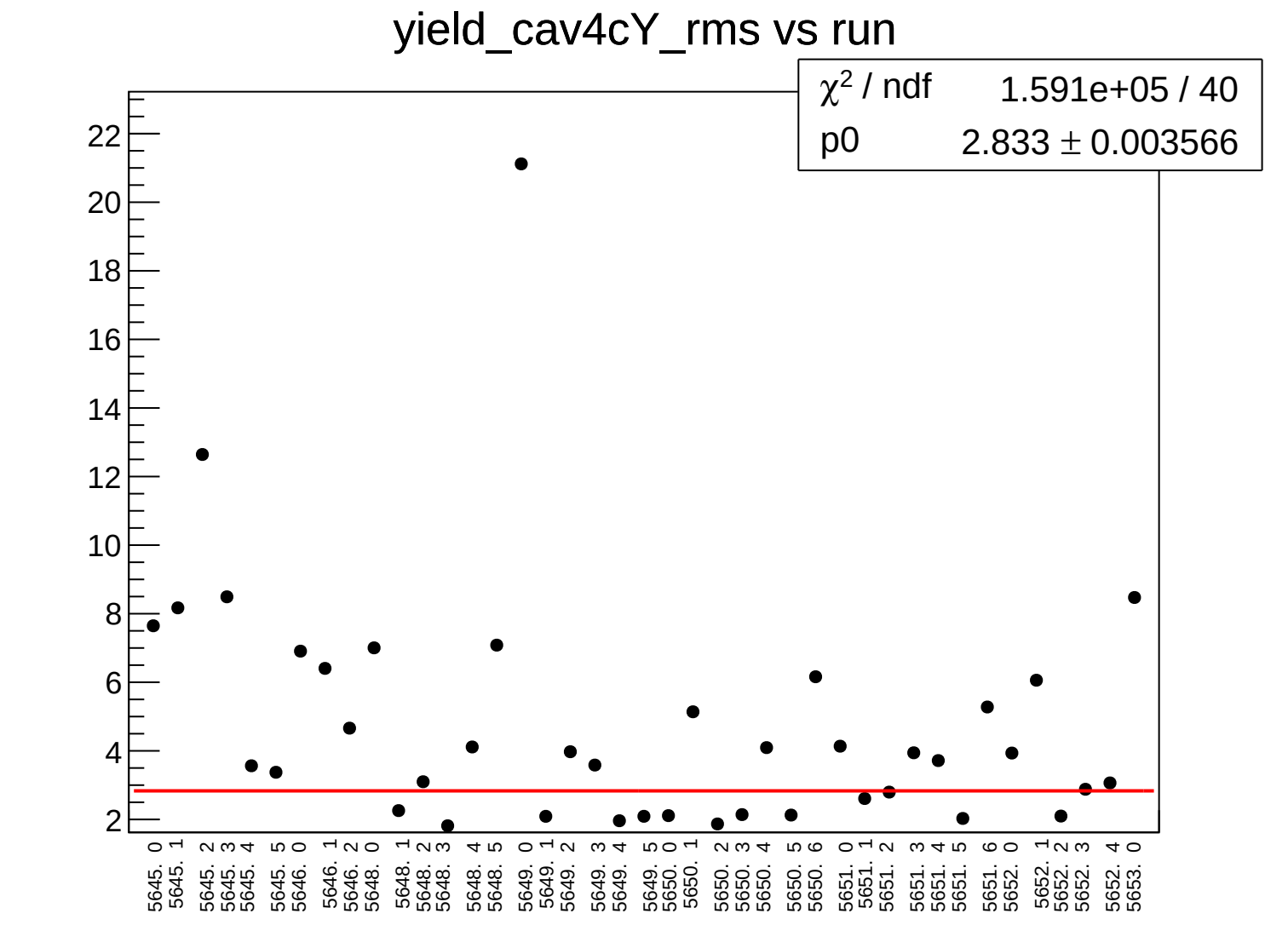

yield_cav4cX_mean vs run
χ² / ndf 5.387e+05 / 40
p0 146.5 ± 0.003003
pull
Entries 41
Mean −19.94
Std Dev 0

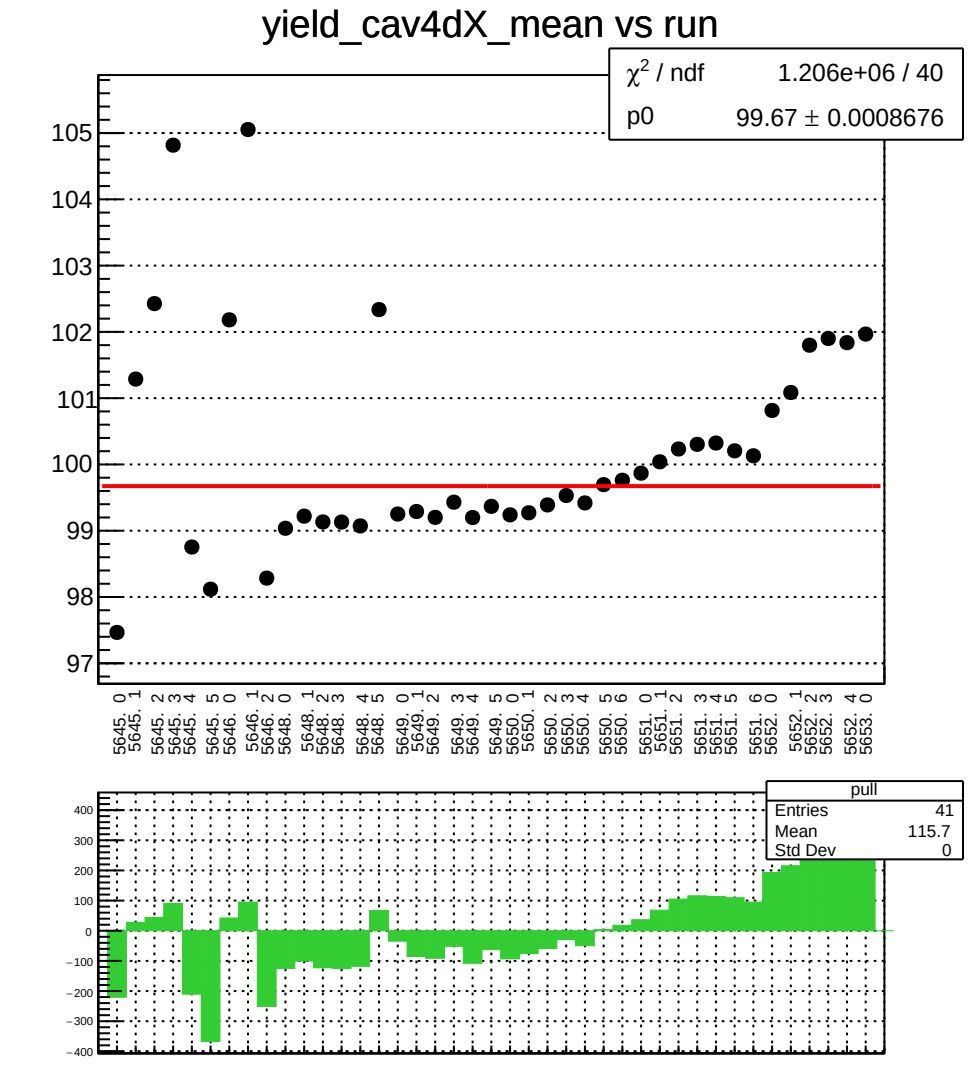

pull1D
Entries 41
Mean 0.4937
Std Dev 5.107

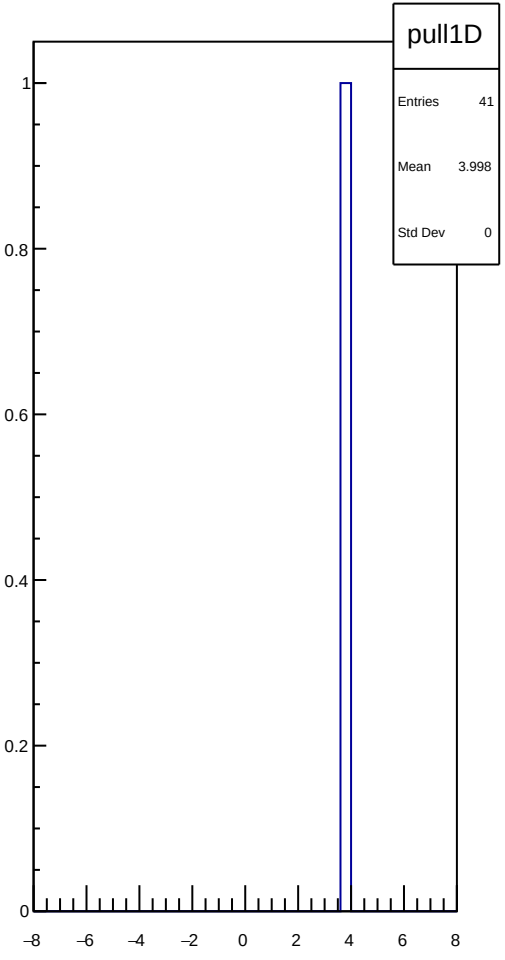

yield_cav4cX_rms vs run
χ² / ndf 1.748e+05 / 40
p0 1.666 ± 0.002123
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

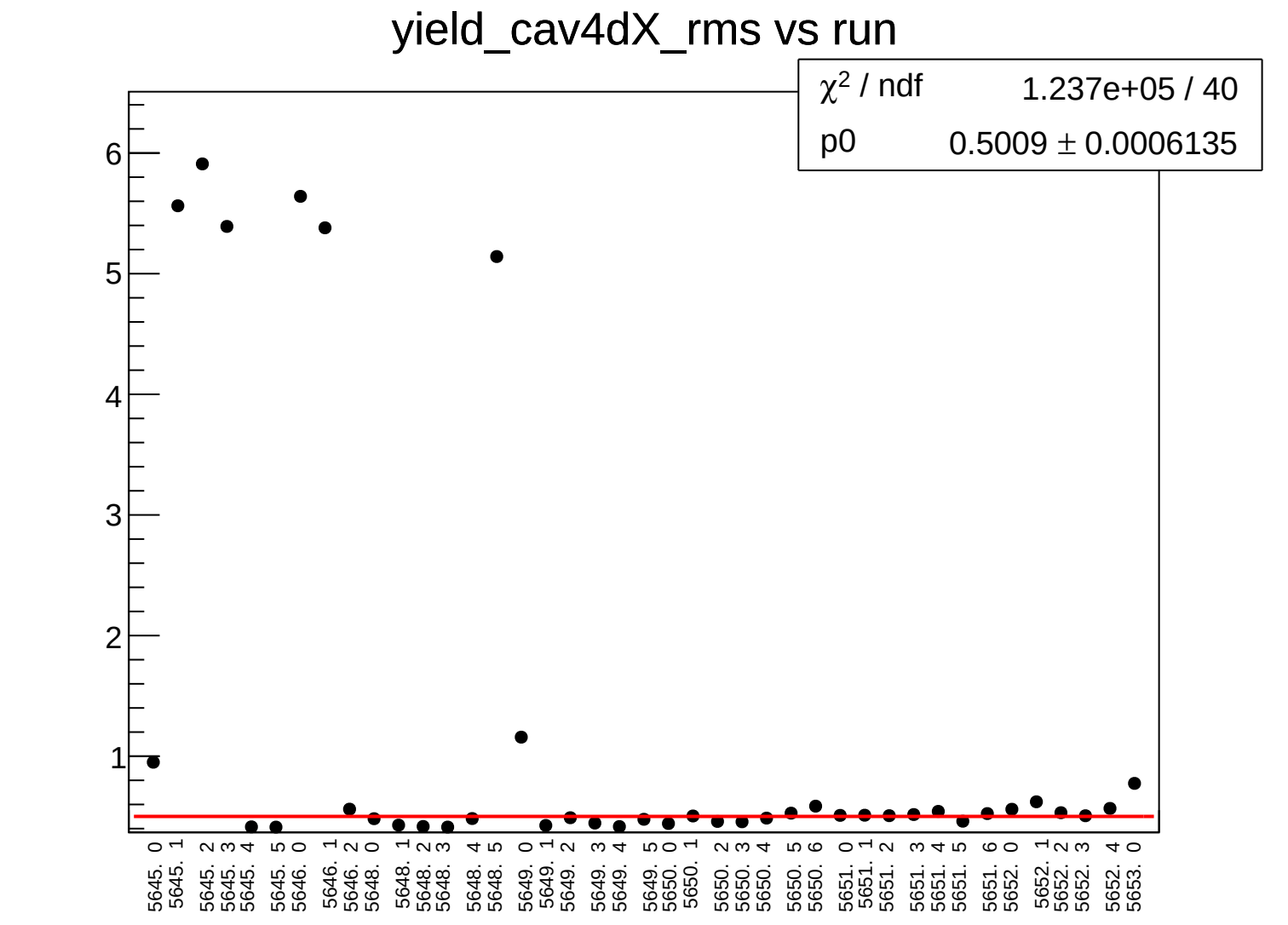

yield_cav4cY_mean vs run
χ² / ndf 2.182e+05 / 40
p0 159.4 ± 0.005043
166
164
162
160
158
156
154
152
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −38.09
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

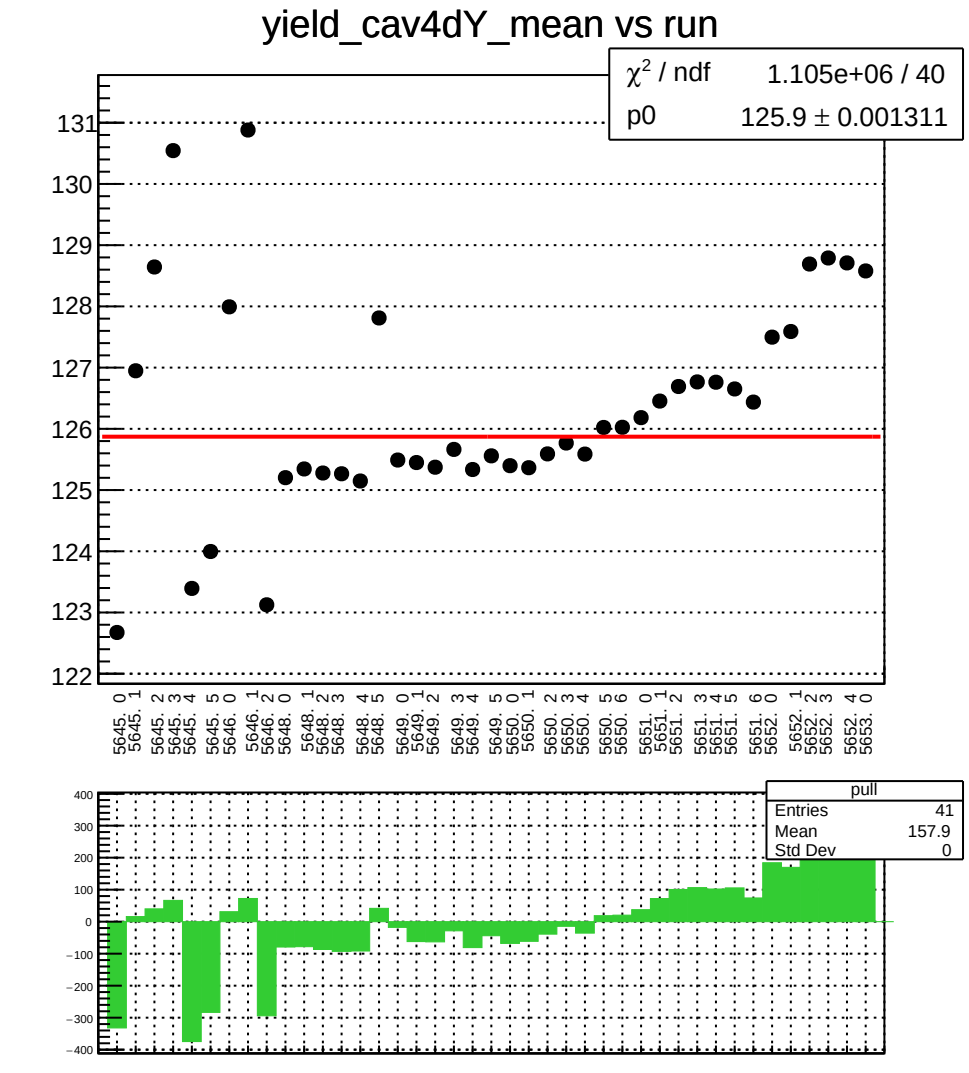

pull1D
Entries 41
Mean −2.918
Std Dev 3.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

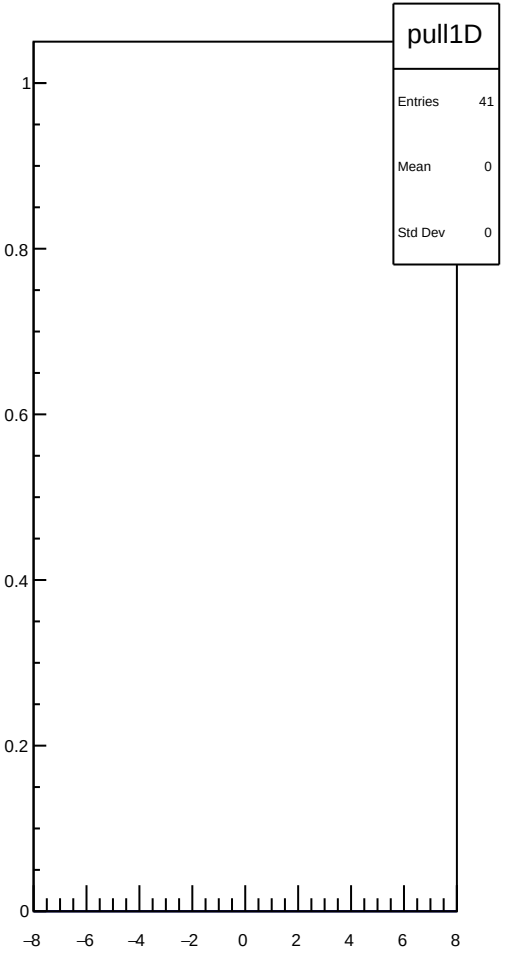

yield_cav4cY_rms vs run
χ² / ndf 1.591e+05 / 40
p0 2.833 ± 0.003566
22
20
18
16
14
12
10
8
6
4
2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

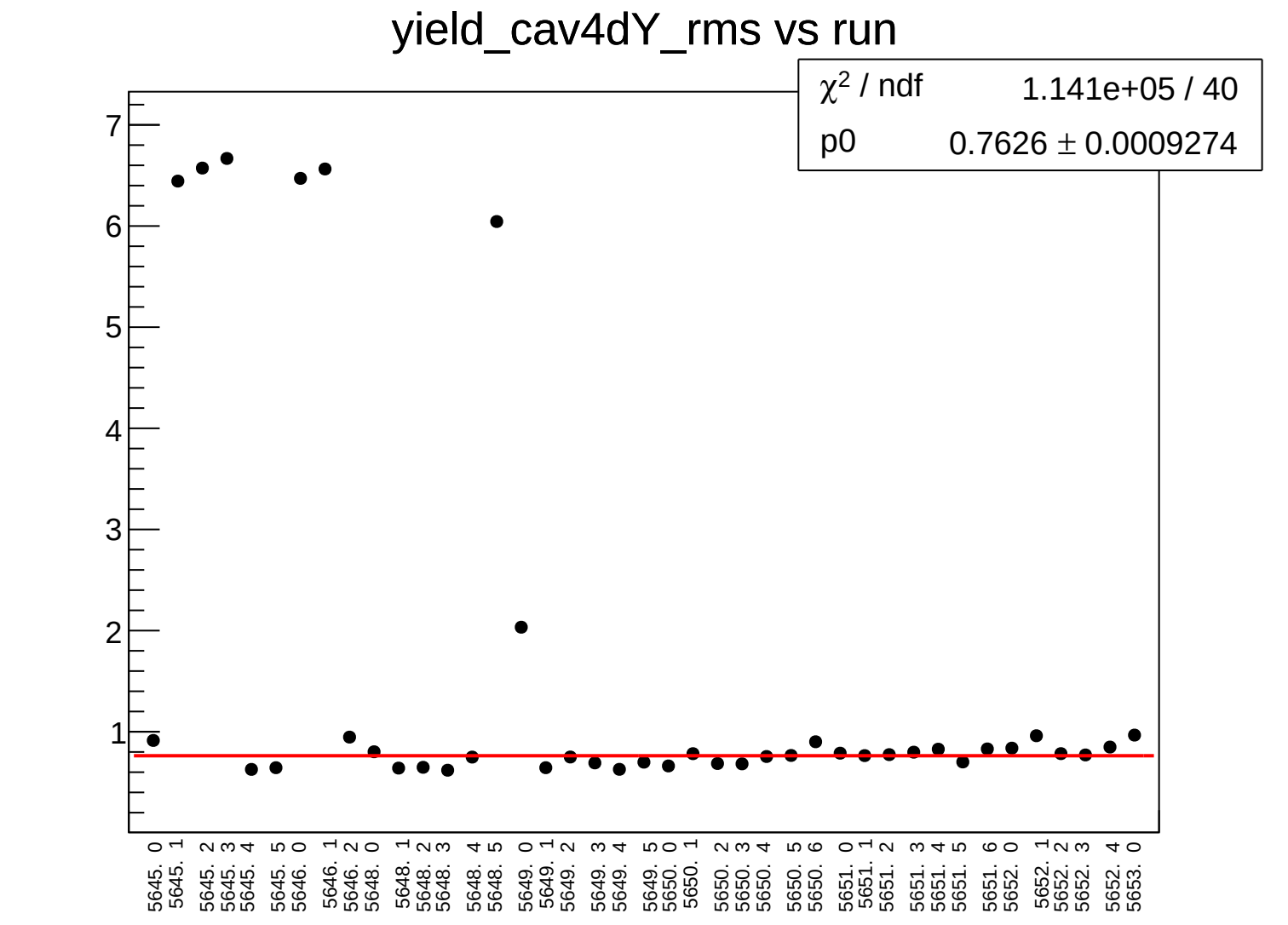

yield_cav4dX_mean vs run
χ² / ndf 1.206e+06 / 40
p0 99.67 ± 0.0008676
105
104
103
102
101
100
99
98
97
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 115.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

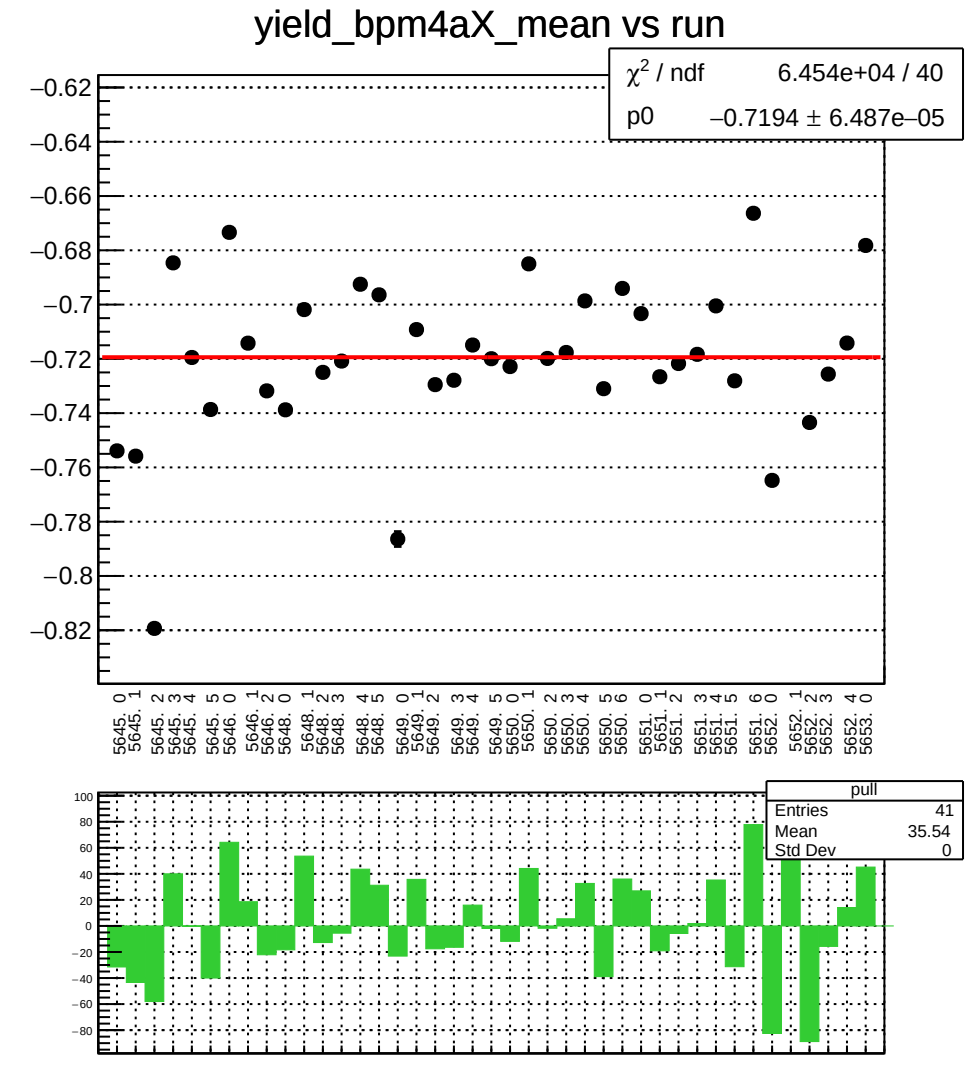

pull1D
Entries 41
Mean 3.998
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

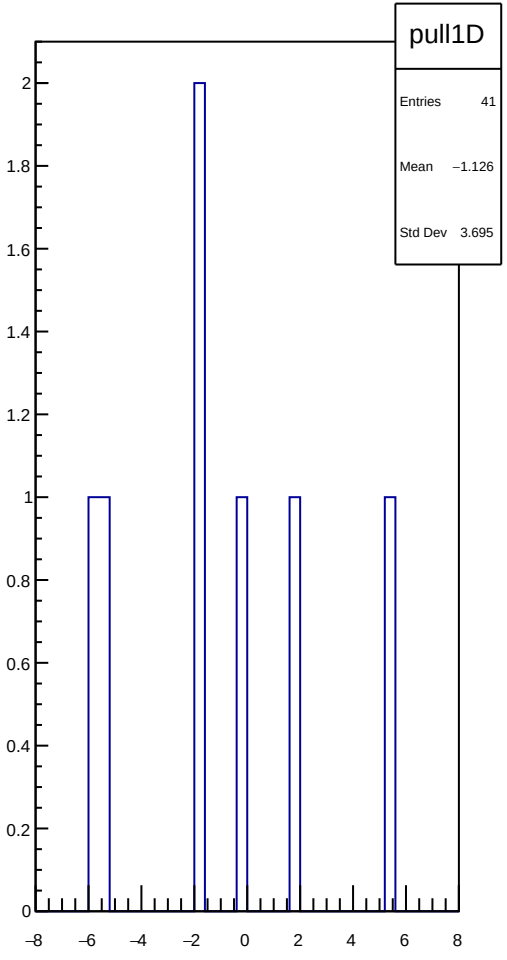

yield_cav4dX_rms vs run
χ² / ndf 1.237e+05 / 40
p0 0.5009 ± 0.0006135
6
5
4
3
2
1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

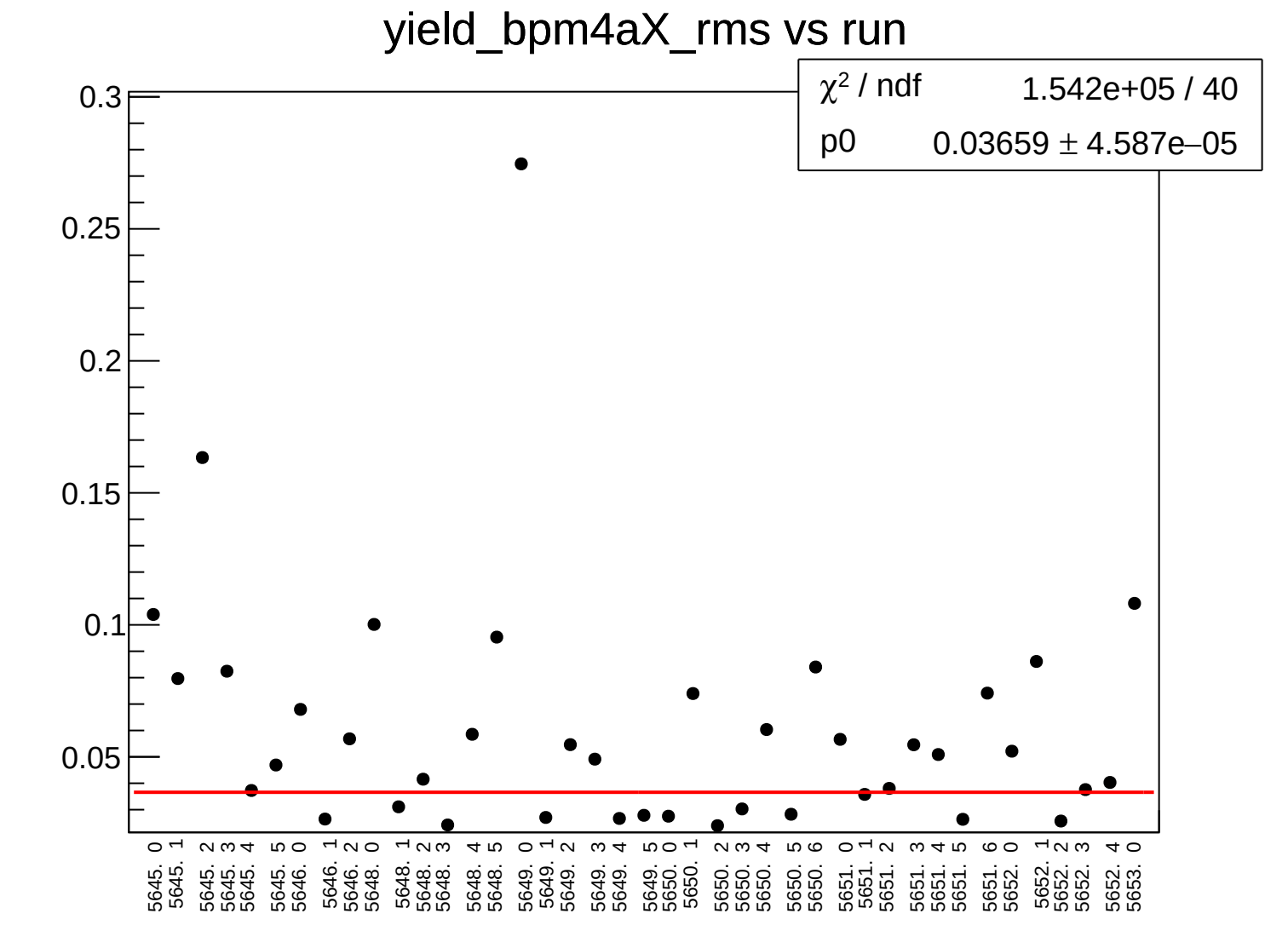

yield_cav4dY_mean vs run
χ² / ndf 1.105e+06 / 40
p0 125.9 ± 0.001311
131
130
129
128
127
126
125
124
123
122
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 157.9
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

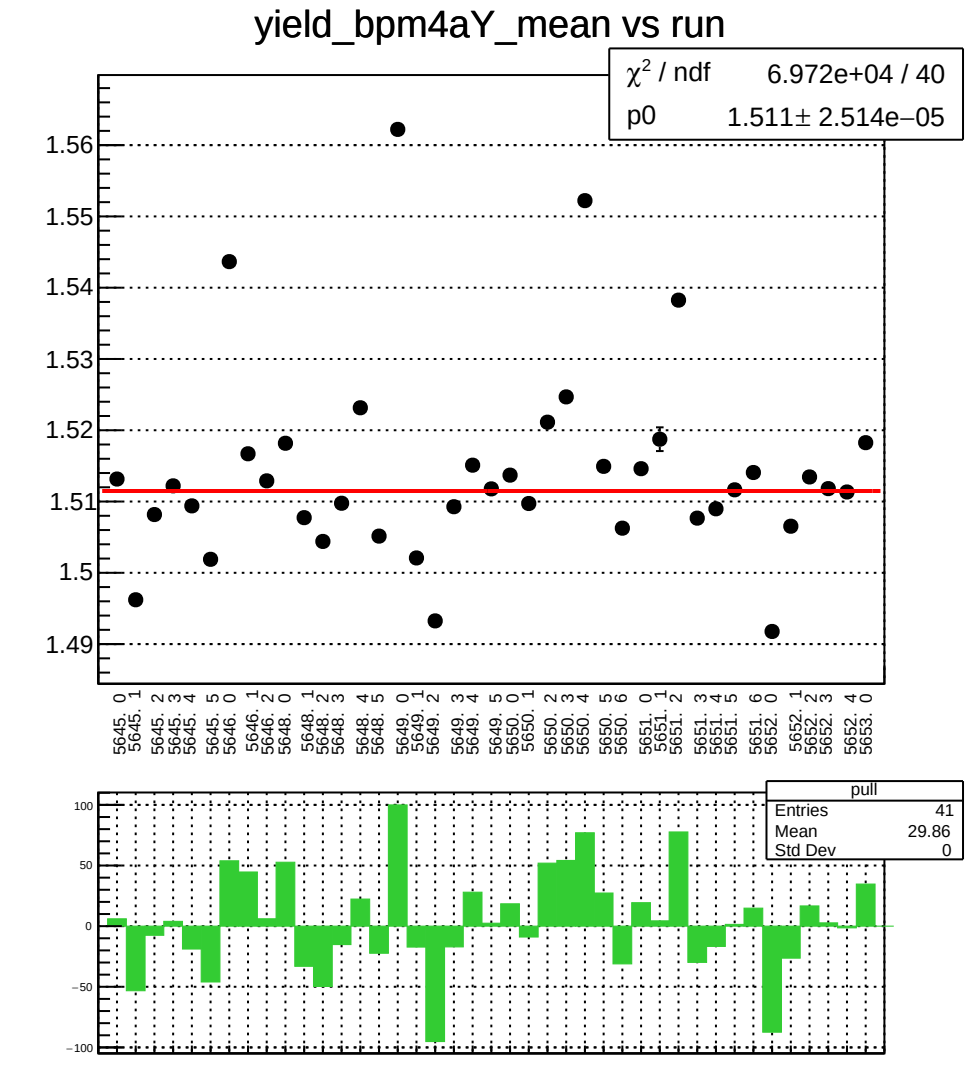

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

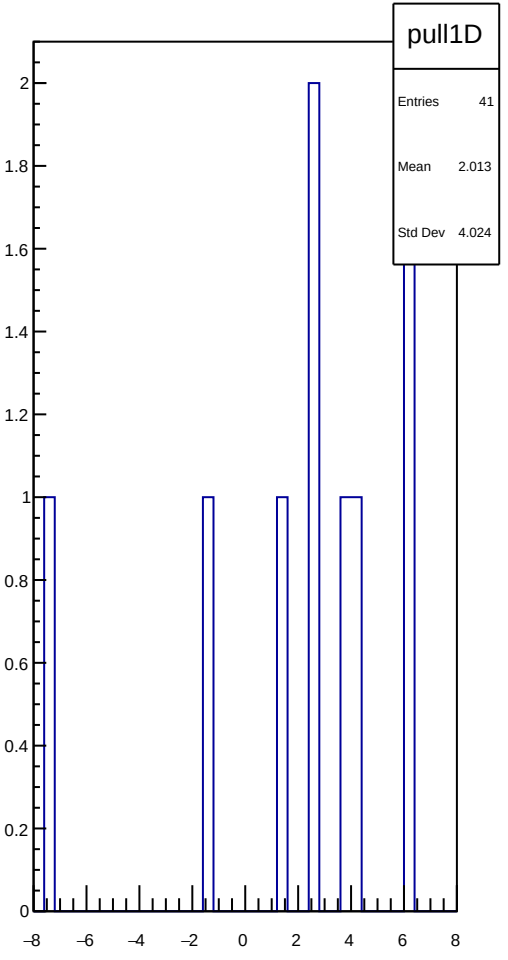

yield_cav4dY_rms vs run
χ² / ndf 1.141e+05 / 40
p0 0.7626 ± 0.0009274
7
6
5
4
3
2
1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

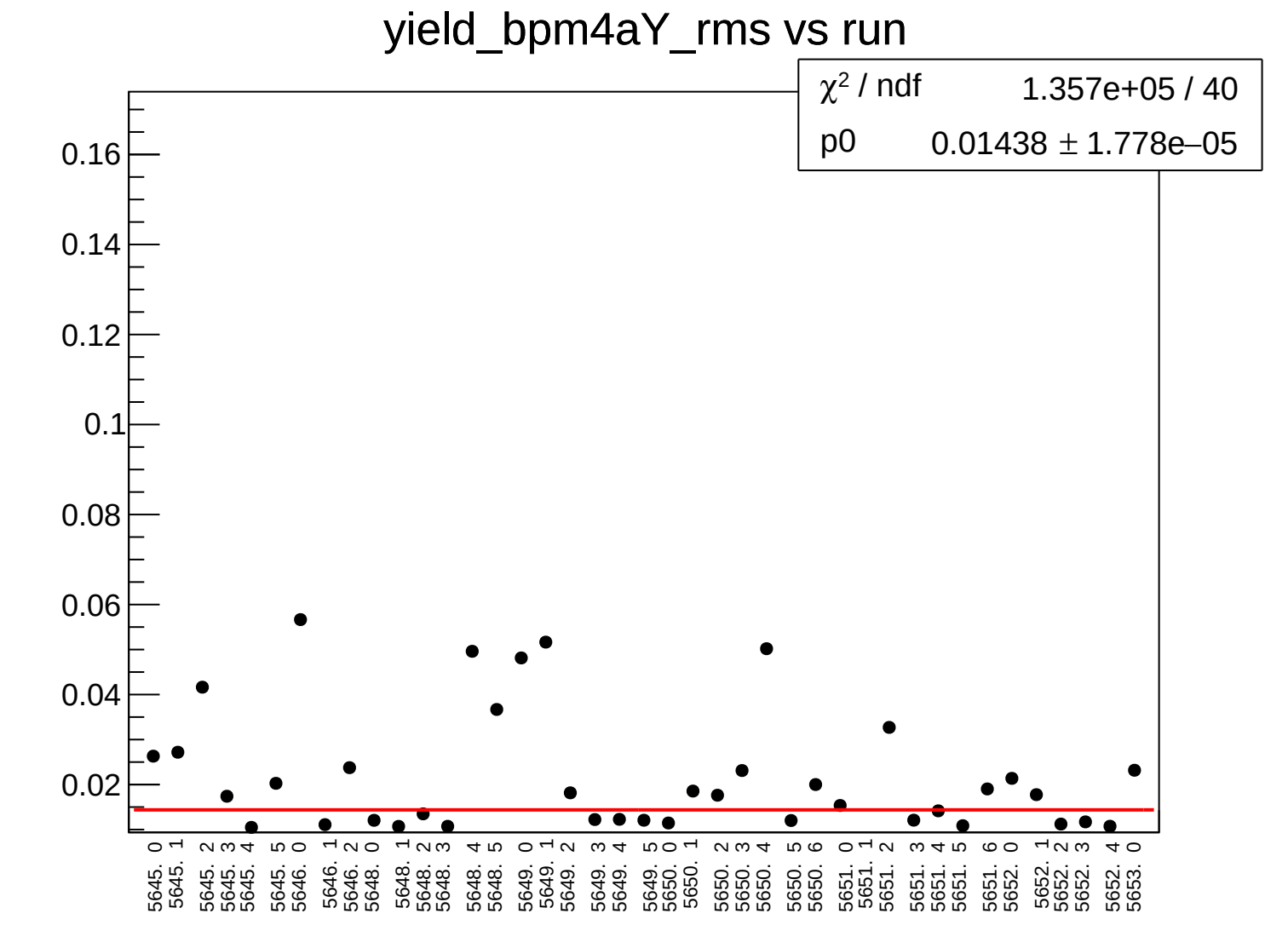

yield_bpm4aX_mean vs run
χ² / ndf 6.454e+04 / 40
p0 −0.7194 ± 6.487e−05
pull
Entries 41
Mean 35.54
Std Dev 0

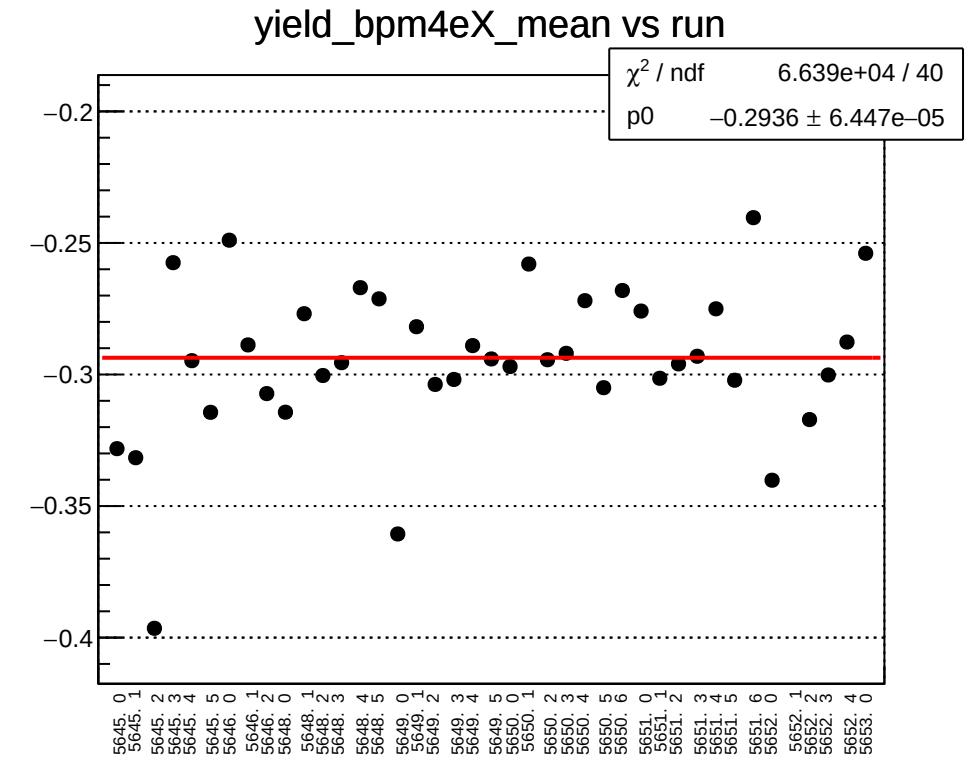

pull1D
Entries 41
Mean −1.126
Std Dev 3.695

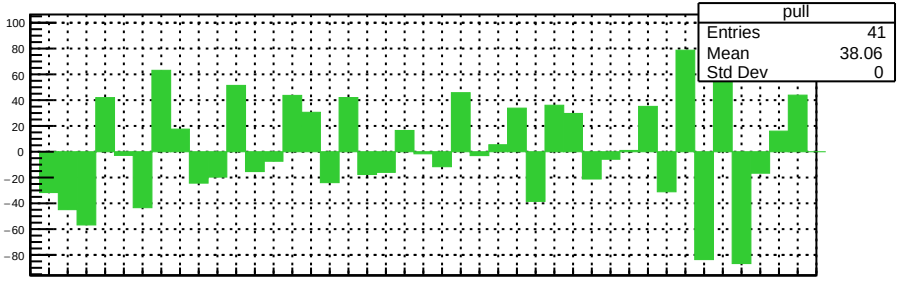

yield_bpm4aX_rms vs run
χ² / ndf 1.542e+05 / 40
p0 0.03659 ± 4.587e–05
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

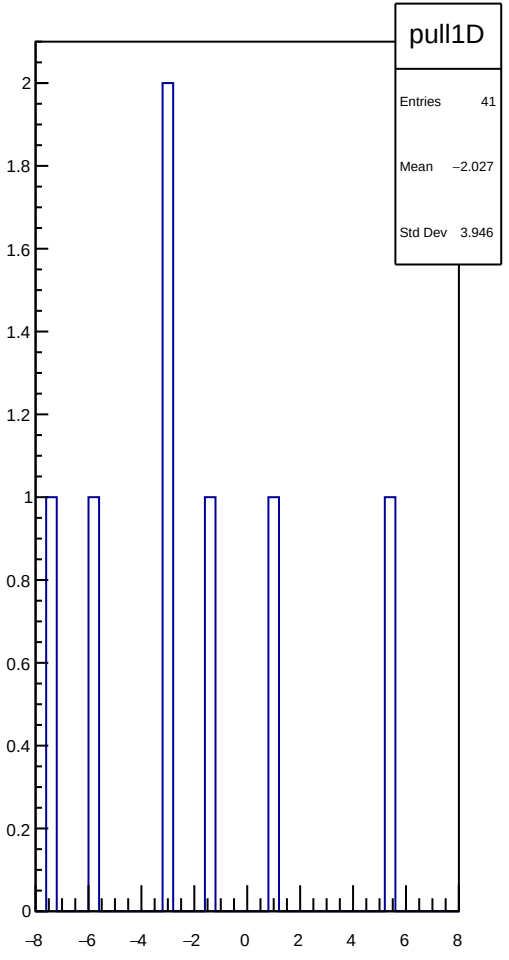

yield_bpm4aY_mean vs run
χ² / ndf 6.972e+04 / 40
p0 1.511± 2.514e−05
1.56
1.55
1.54
1.53
1.52
1.51
1.5
1.49
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 29.86
Std Dev 0
100
50
0
−50
−100

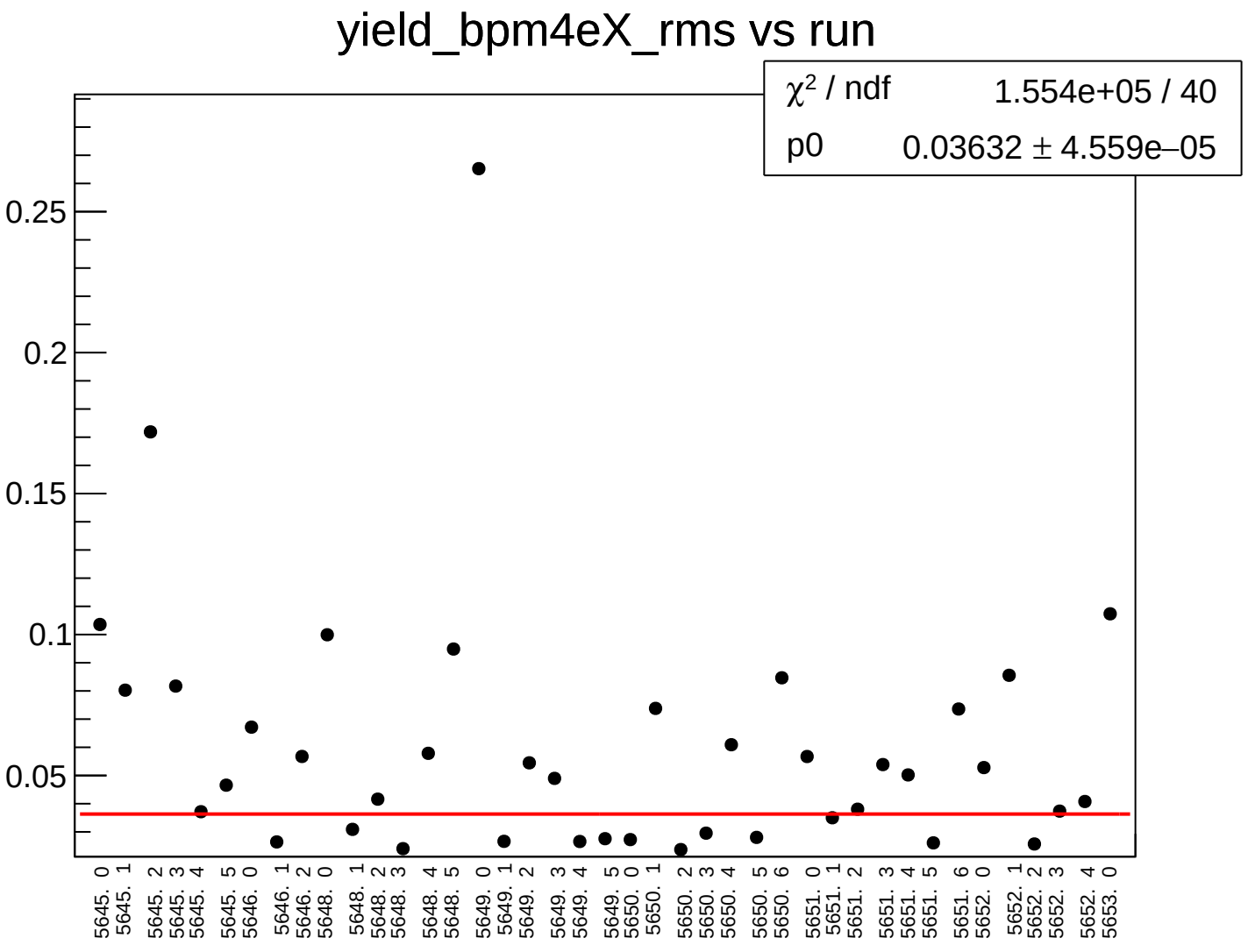

pull1D
Entries 41
Mean 2.013
Std Dev 4.024
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

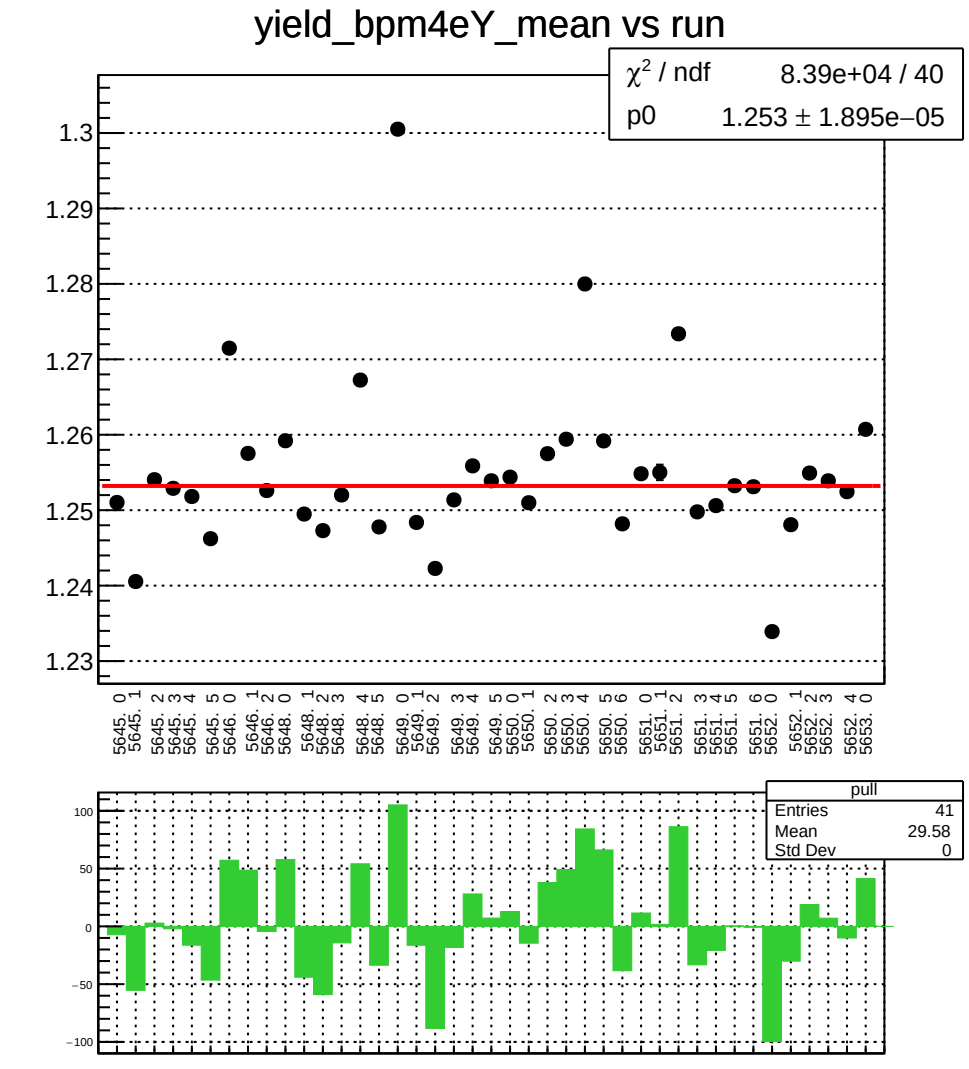

yield_bpm4aY_rms vs run
χ² / ndf 1.357e+05 / 40
p0 0.01438 ± 1.778e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

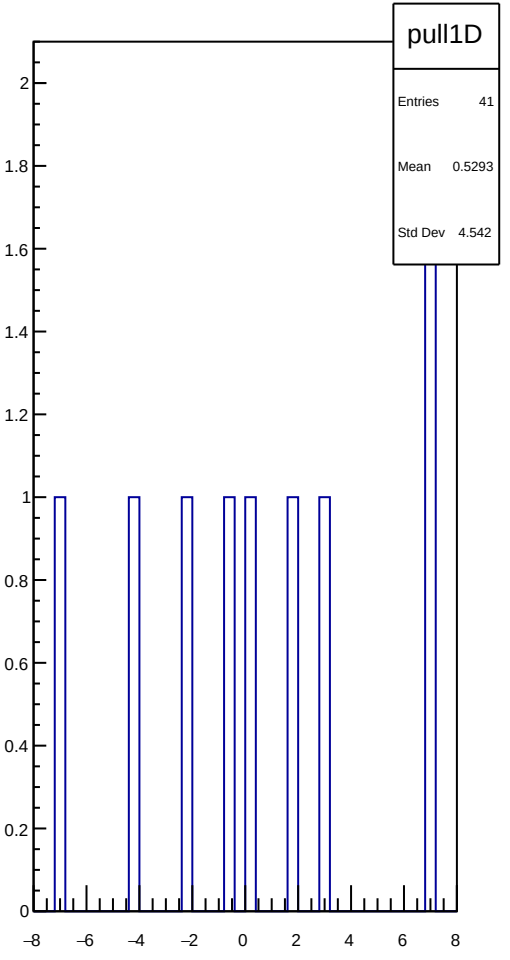

yield_bpm4eX_mean vs run
χ² / ndf 6.639e+04 / 40
p0 −0.2936 ± 6.447e−05
−0.2
−0.25
−0.3
−0.35
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

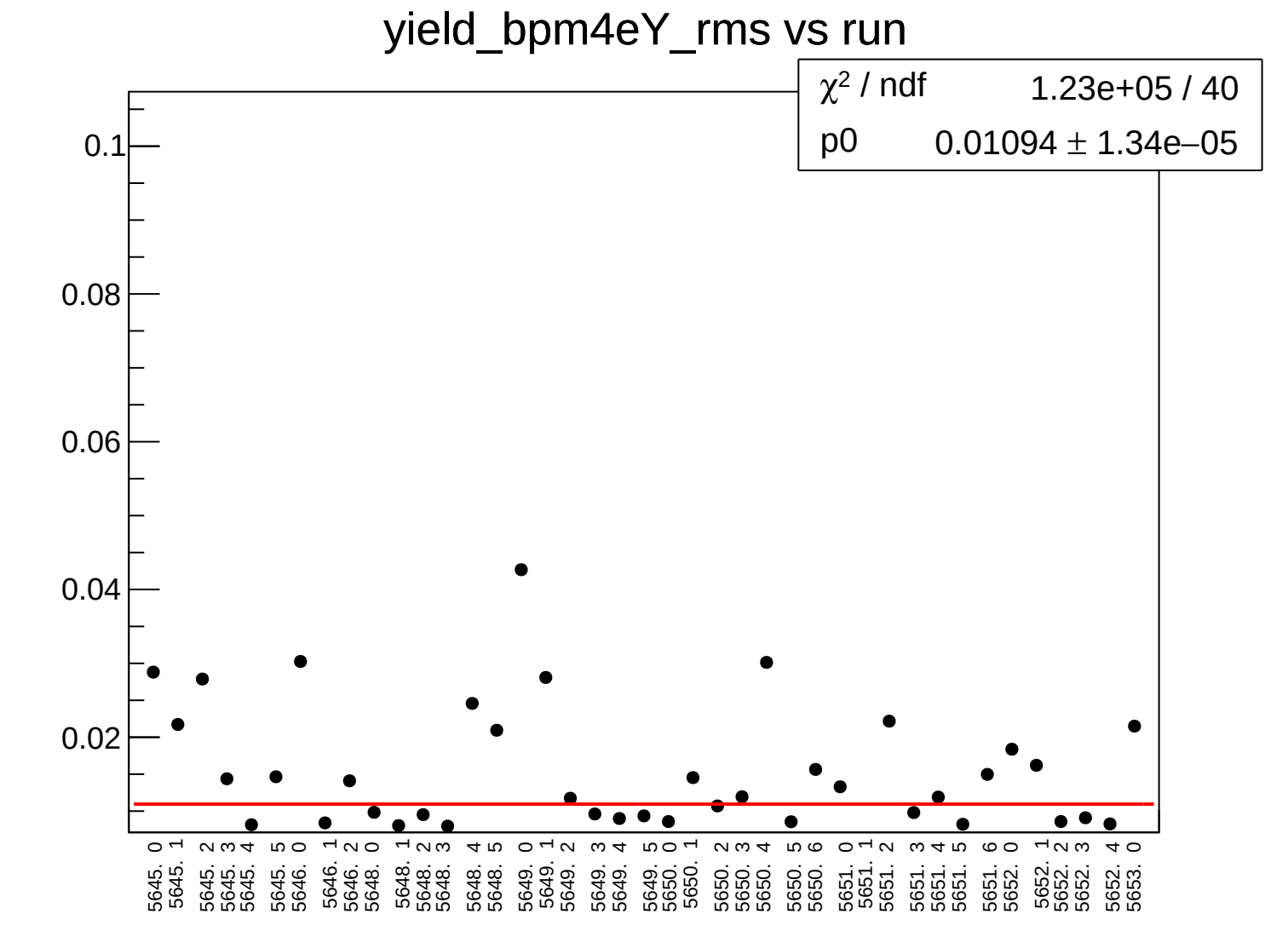

pull
Entries 41
Mean 38.06
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

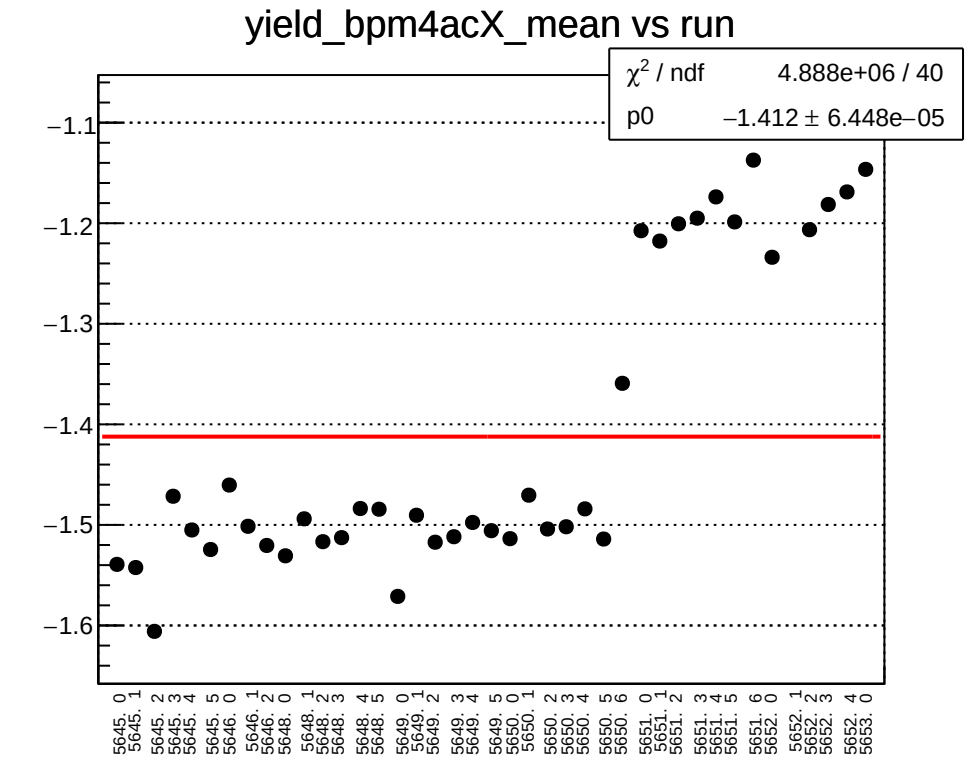

pull1D
Entries 41
Mean −2.027
Std Dev 3.946
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

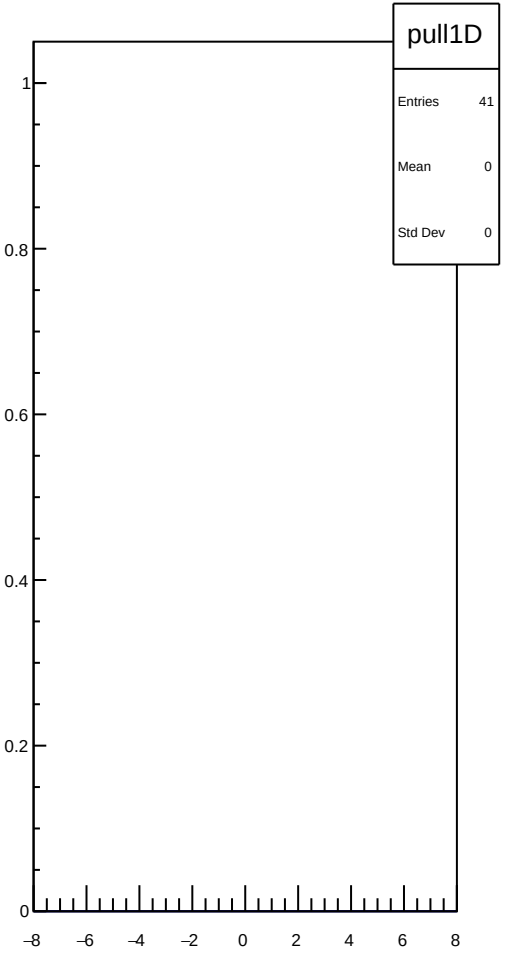

yield_bpm4eX_rms vs run
χ² / ndf 1.554e+05 / 40
p0 0.03632 ± 4.559e–05
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

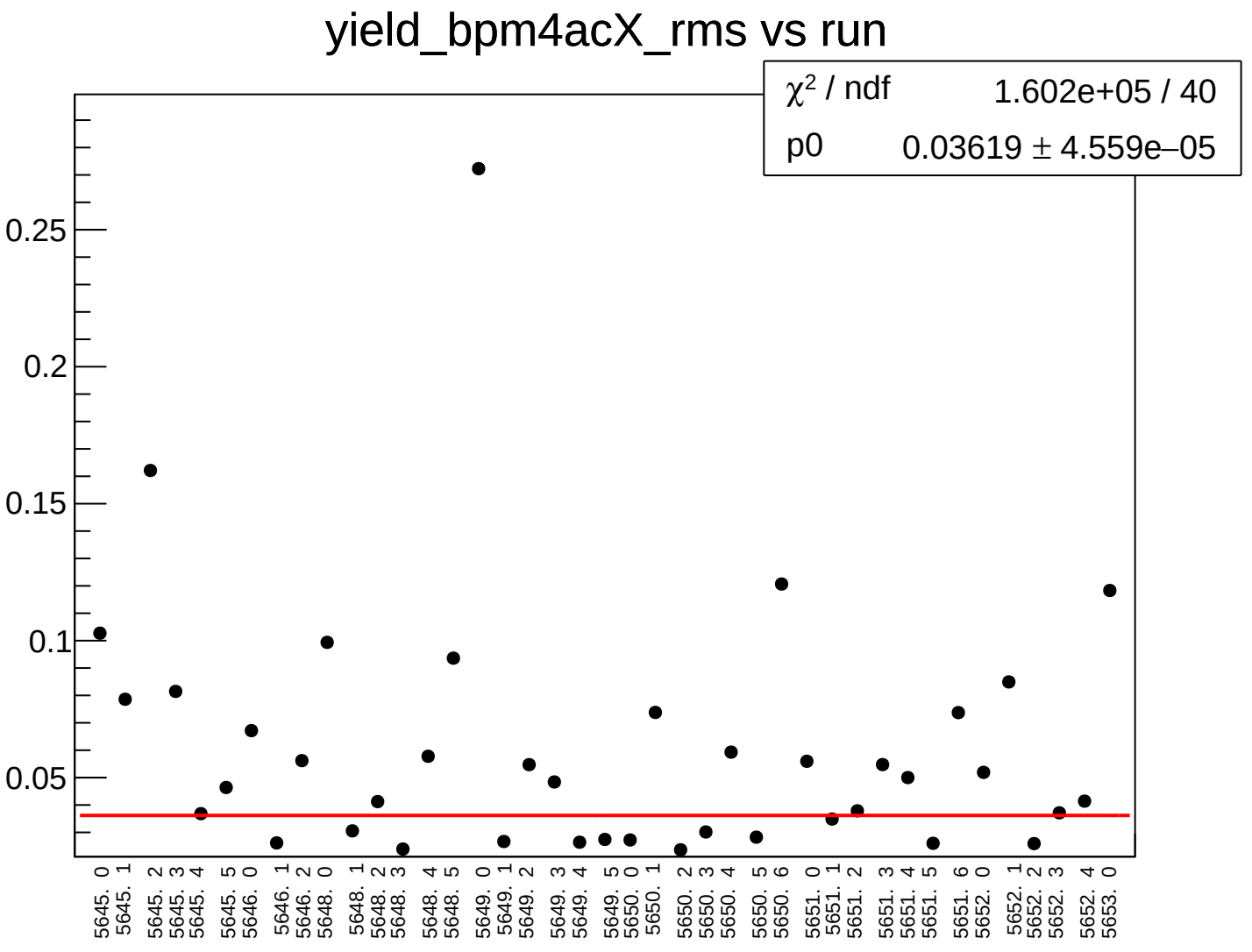

yield_bpm4eY_mean vs run
χ² / ndf 8.39e+04 / 40
p0 1.253 ± 1.895e−05
1.3
1.29
1.28
1.27
1.26
1.25
1.24
1.23
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 29.58
Std Dev 0
100
50
0
−50
−100

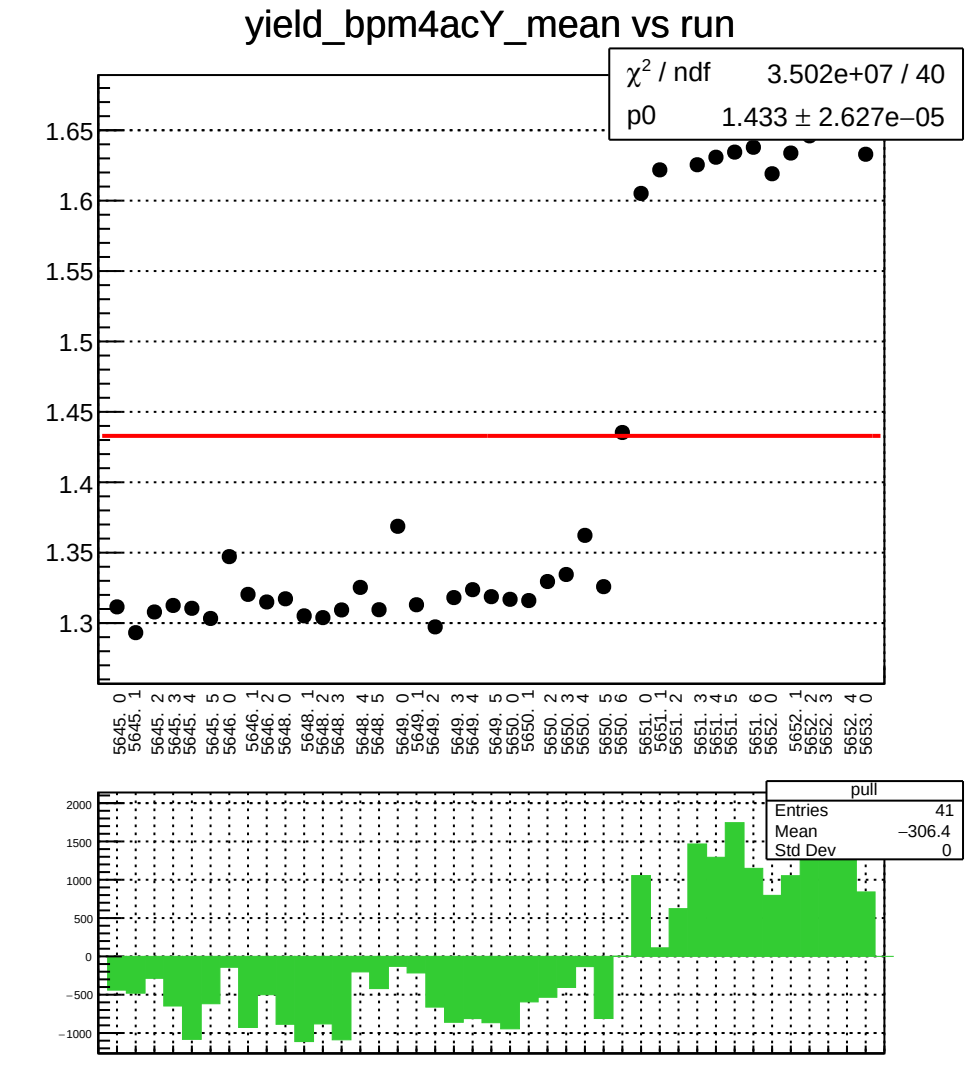

pull1D
Entries 41
Mean 0.5293
Std Dev 4.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

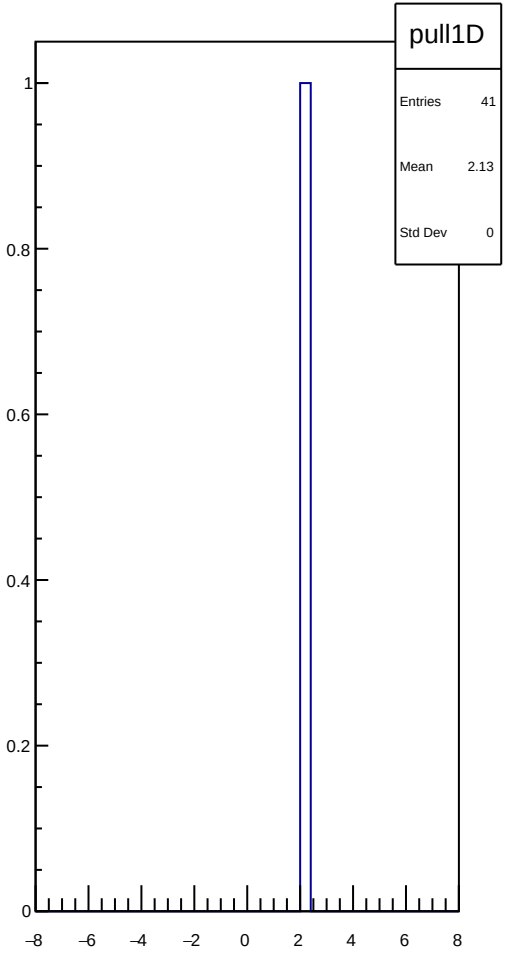

yield_bpm4eY_rms vs run
χ² / ndf 1.23e+05 / 40
p0 0.01094 ± 1.34e−05
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

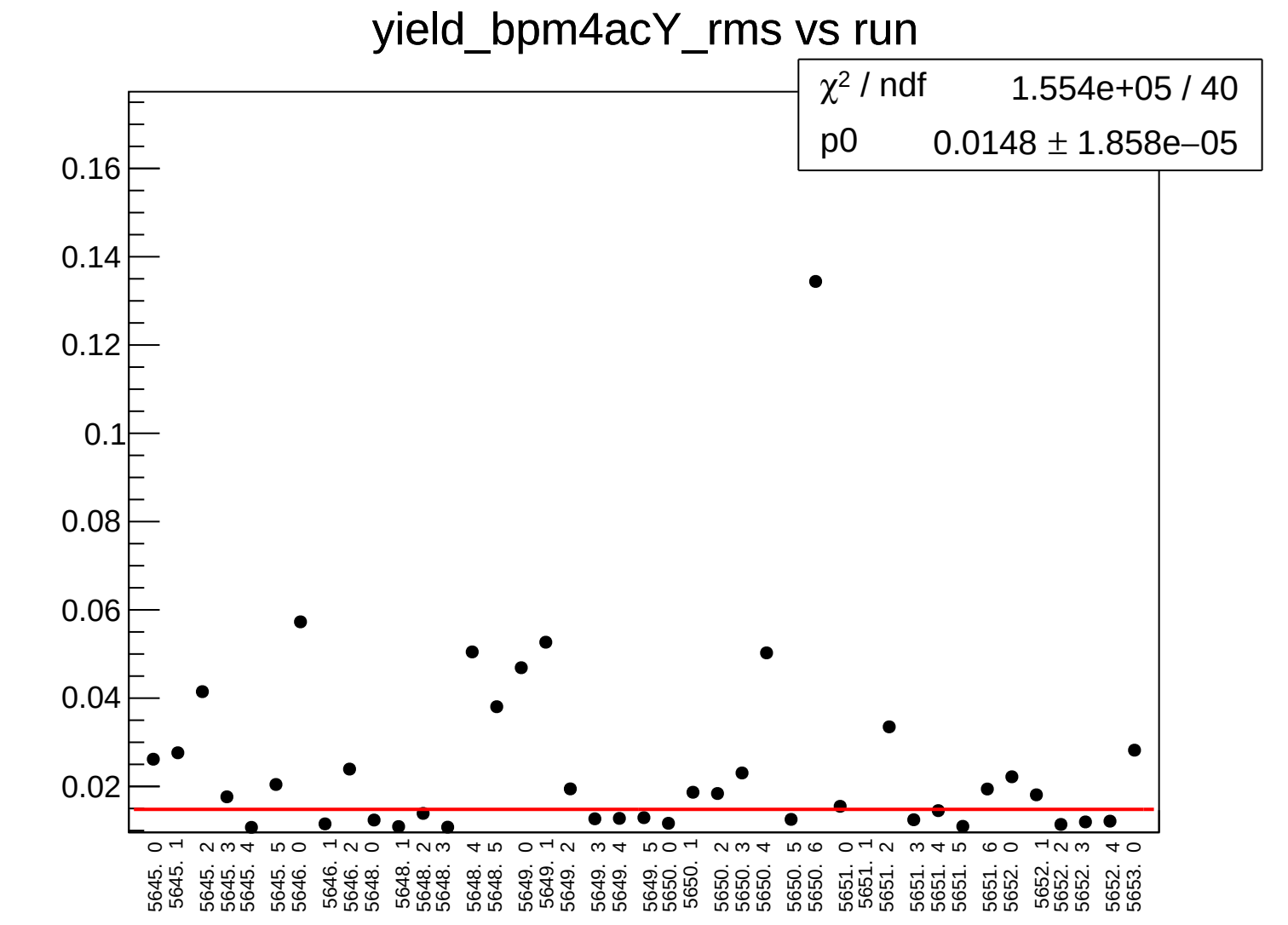

yield_bpm4acX_mean vs run
χ² / ndf 4.888e+06 / 40
p0 −1.412 ± 6.448e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 178.6
Std Dev 0
800
600
400
200
0
−200
−400

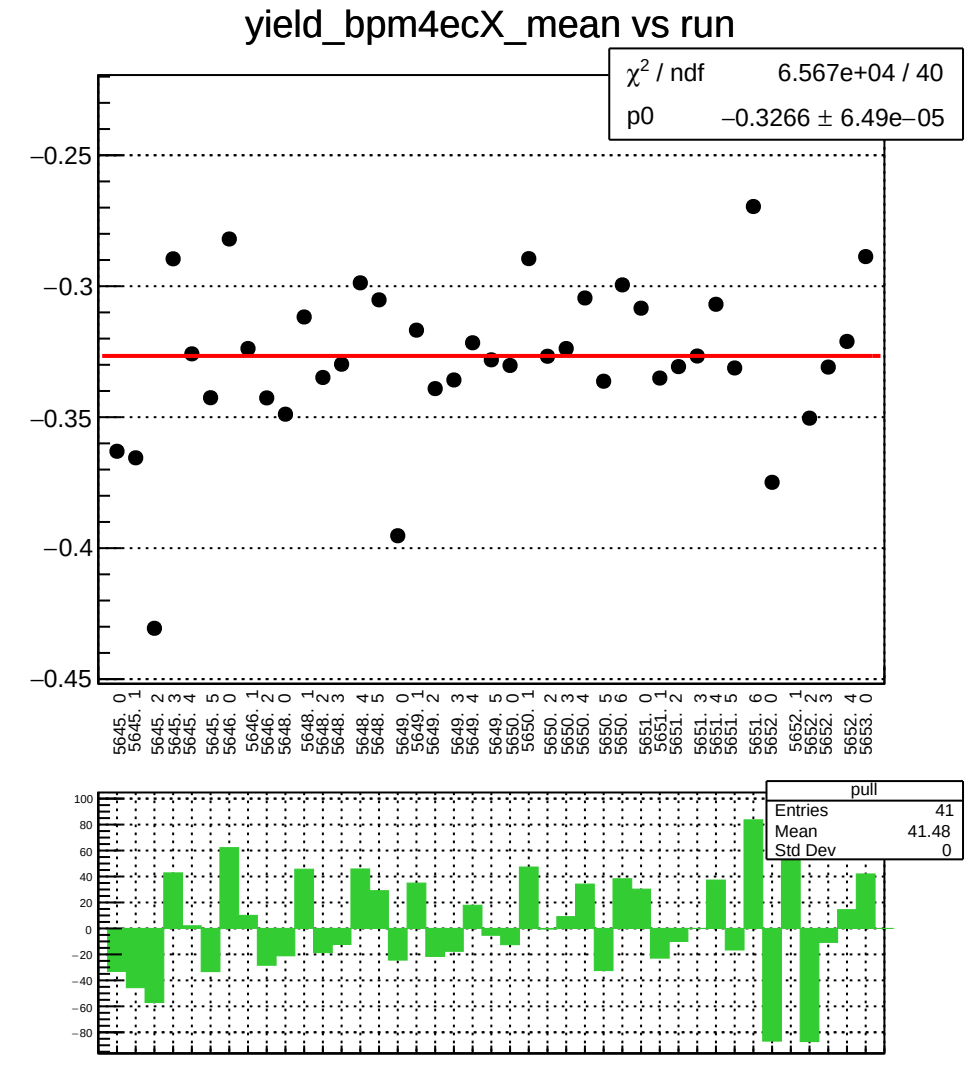

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

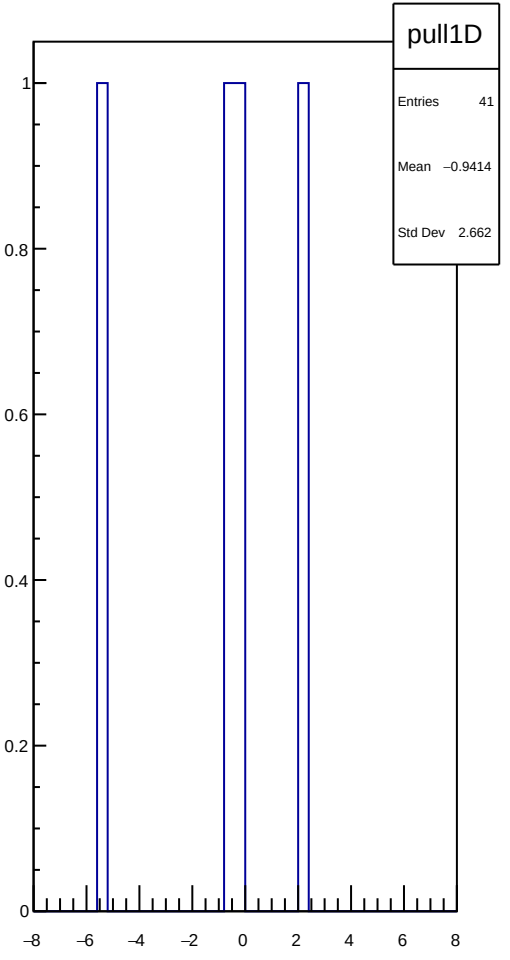

yield_bpm4acX_rms vs run
χ² / ndf 1.602e+05 / 40
p0 0.03619 ± 4.559e–05
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

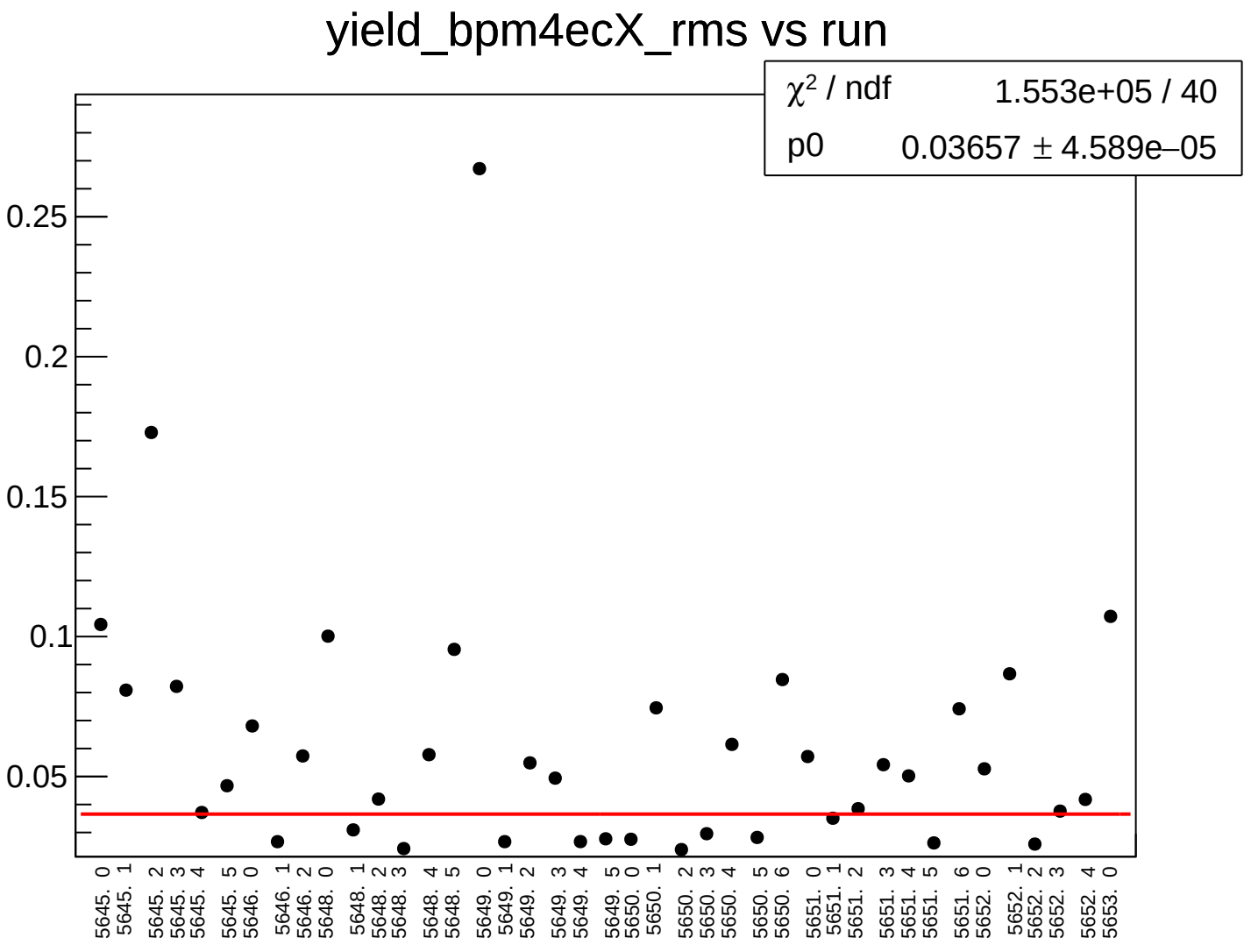

yield_bpm4acY_mean vs run
χ² / ndf 3.502e+07 / 40
p0 1.433 ± 2.627e−05
pull
Entries 41
Mean −306.4
Std Dev 0

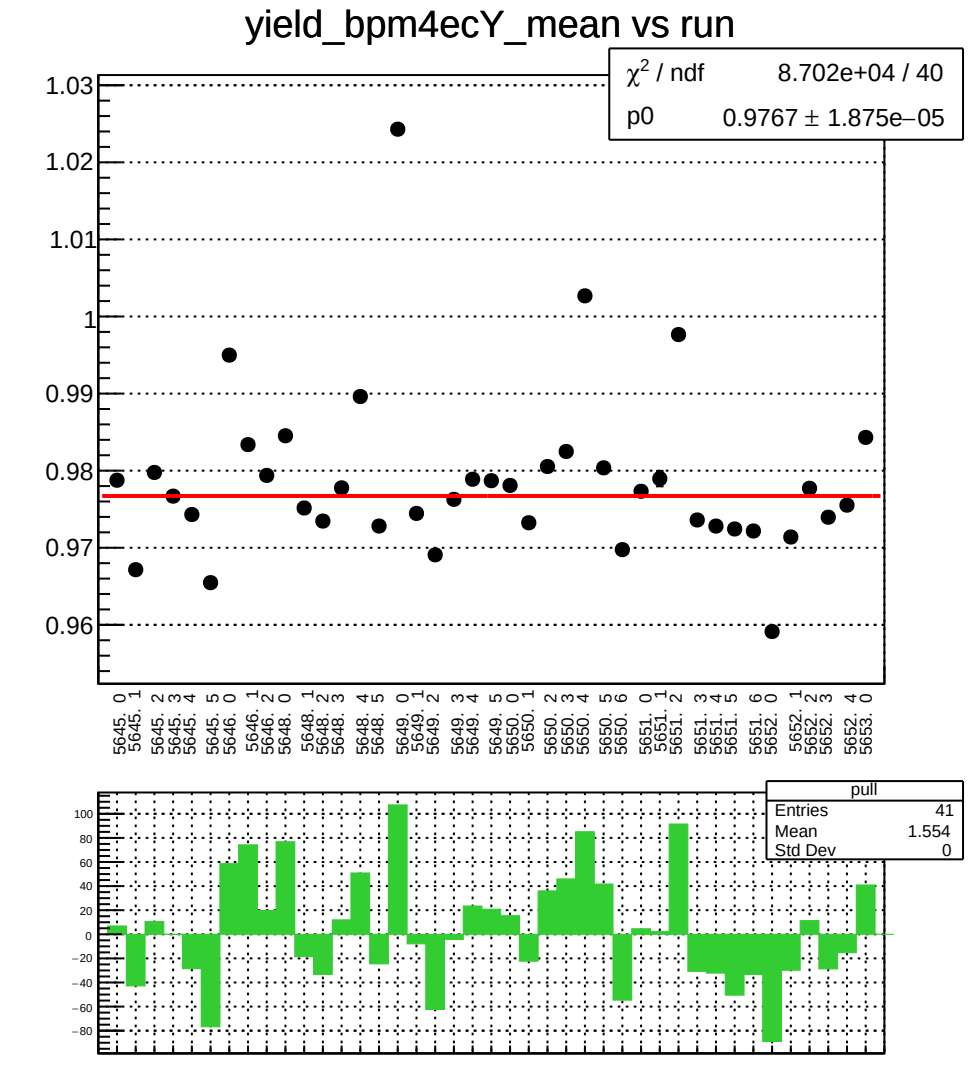

pull1D
Entries 41
Mean 2.13
Std Dev 0

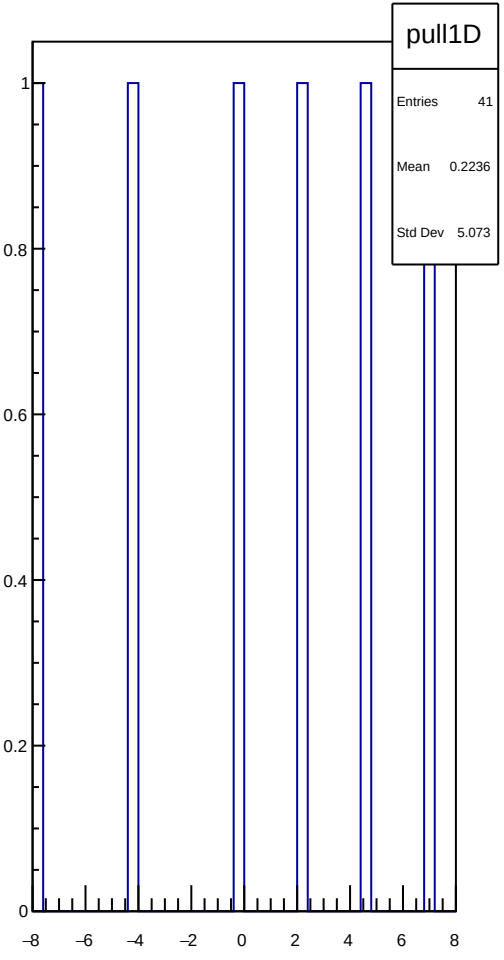

yield_bpm4acY_rms vs run
χ² / ndf 1.554e+05 / 40
p0 0.0148 ± 1.858e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

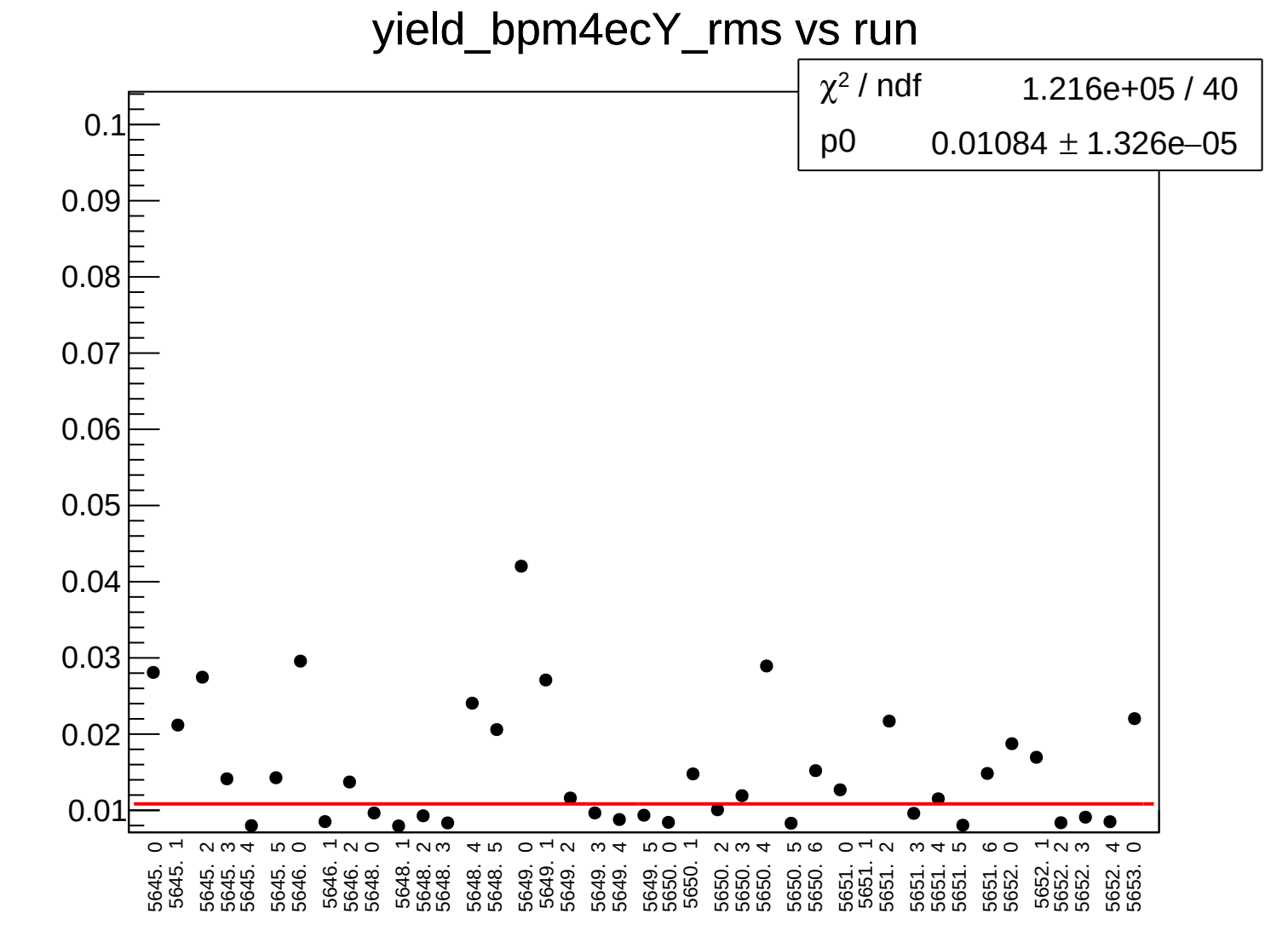

yield_bpm4ecX_mean vs run
χ² / ndf 6.567e+04 / 40
p0 −0.3266 ± 6.49e−05
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 41
Mean 41.48
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

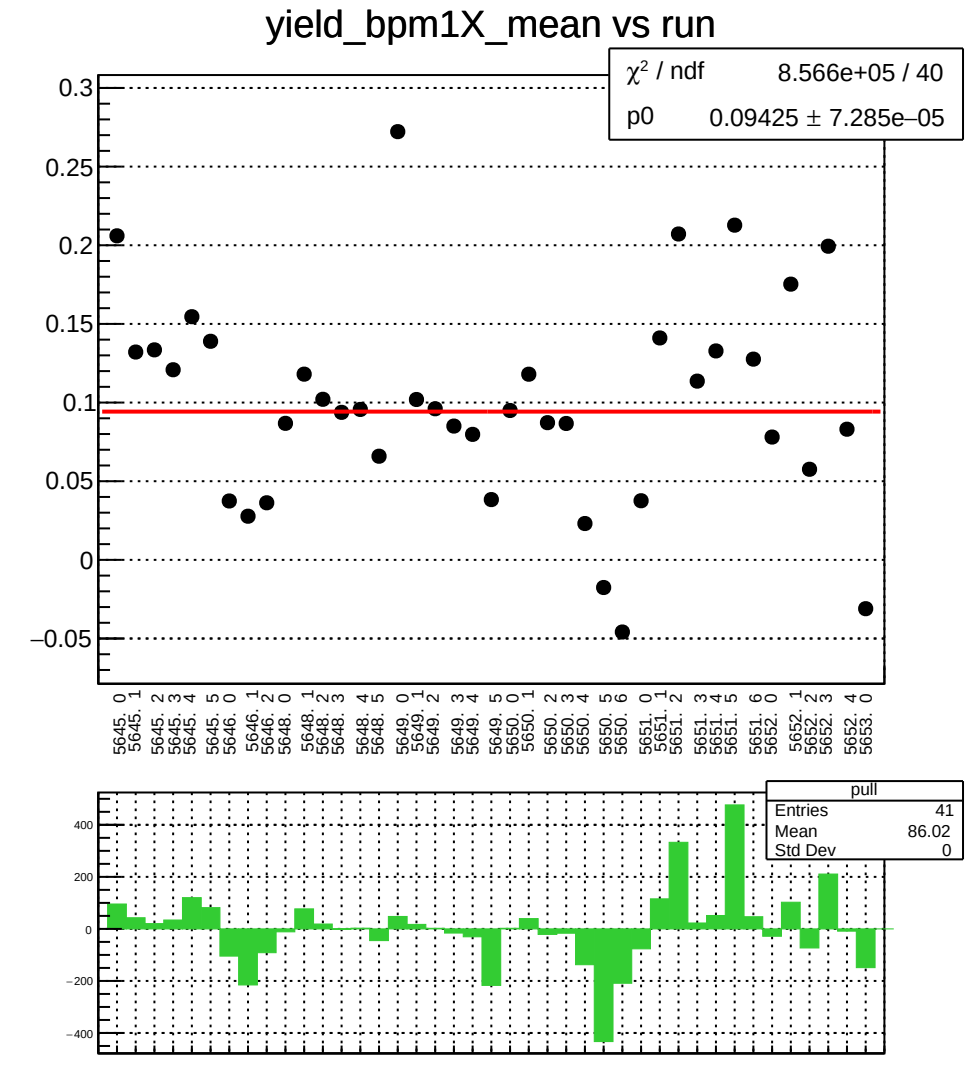

pull1D
Entries 41
Mean −0.9414
Std Dev 2.662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

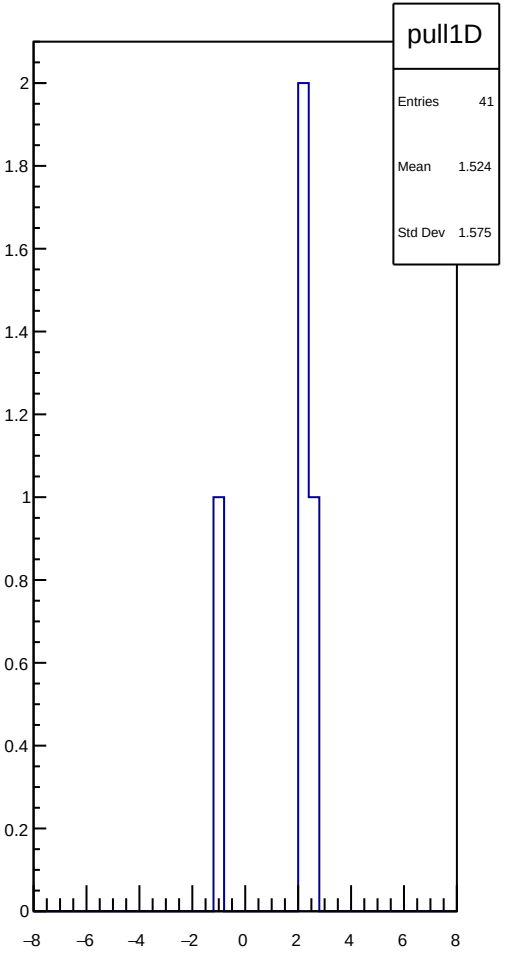

yield_bpm4ecX_rms vs run
χ² / ndf 1.553e+05 / 40
p0 0.03657 ± 4.589e–05
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

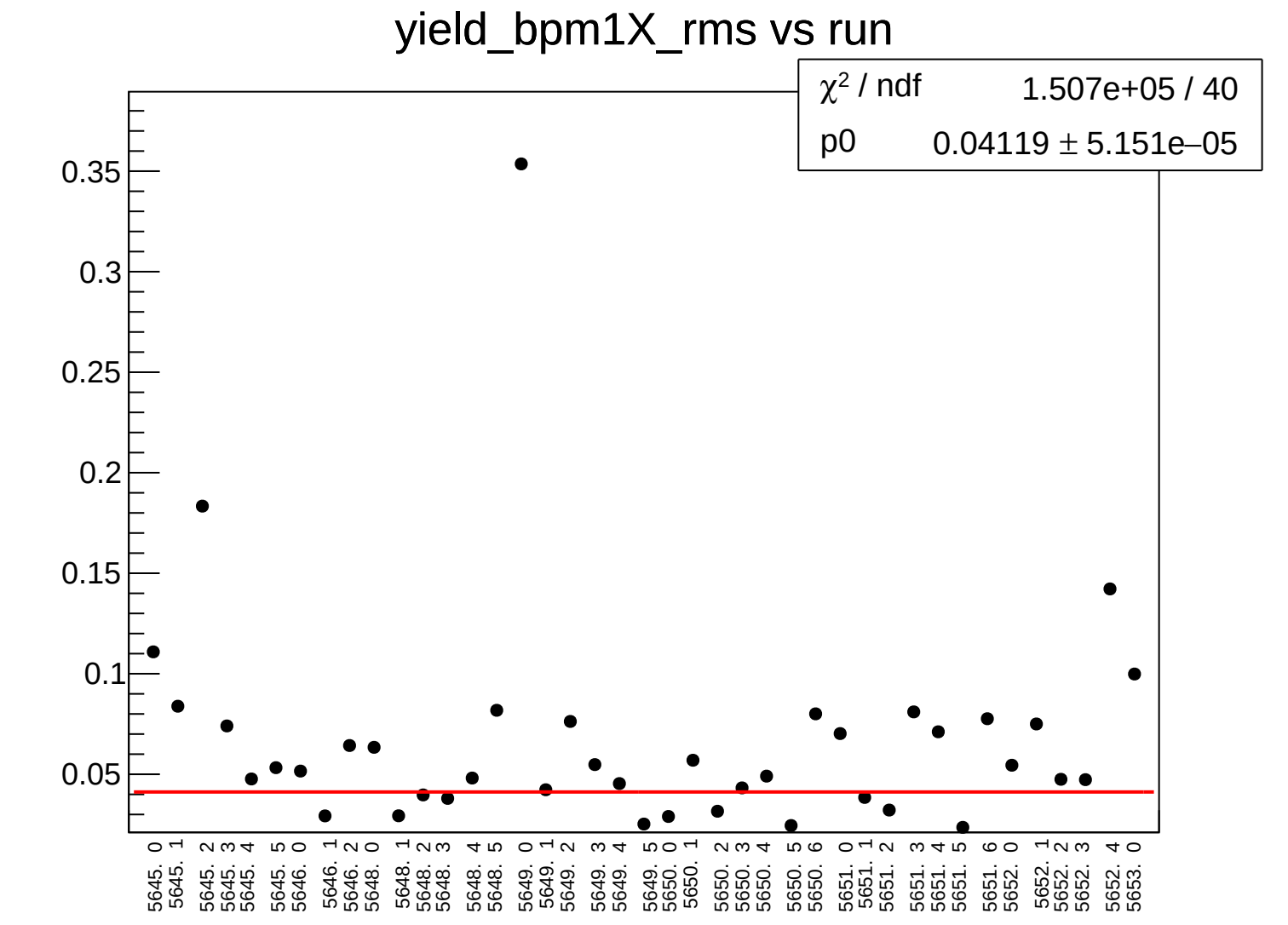

yield_bpm4ecY_mean vs run
χ² / ndf 8.702e+04 / 40
p0 0.9767 ± 1.875e−05
1.03
1.02
1.01
1
0.99
0.98
0.97
0.96
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.554
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

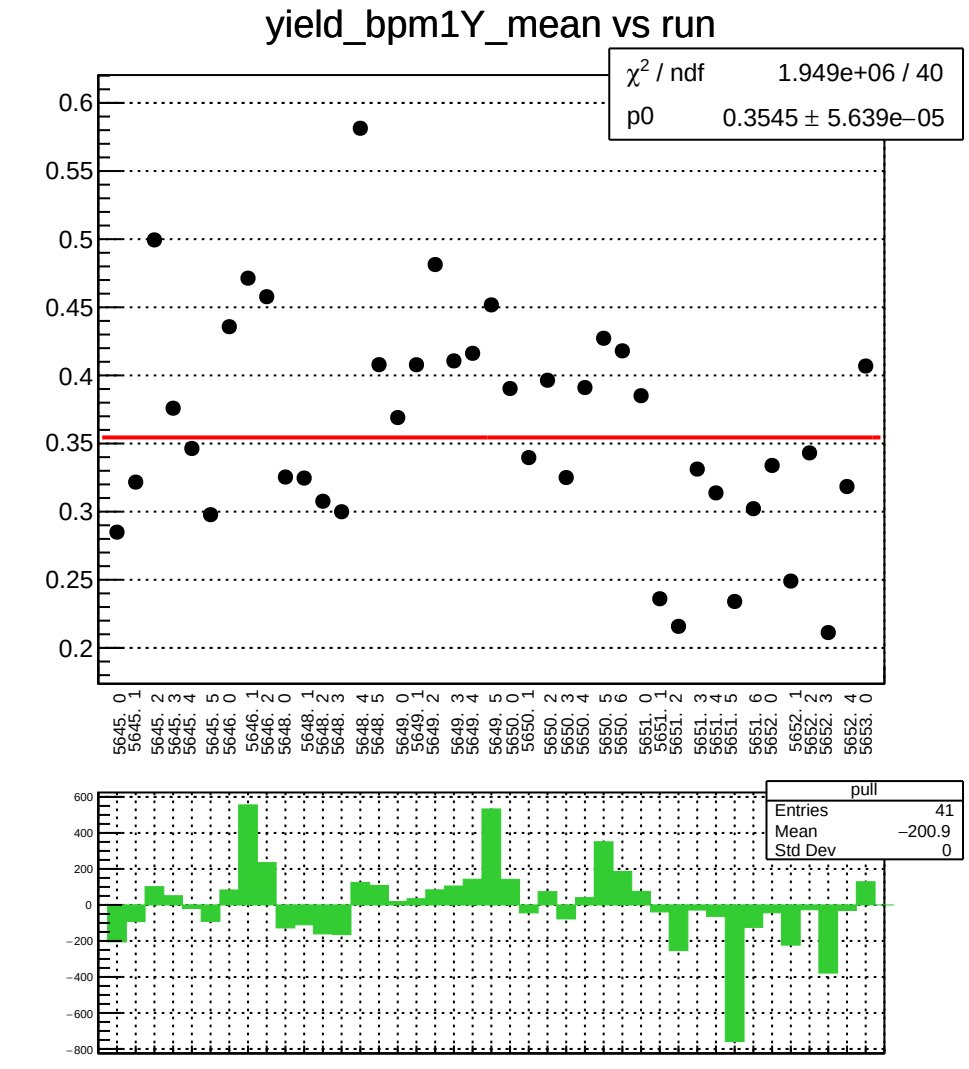

pull1D
Entries 41
Mean 0.2236
Std Dev 5.073
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

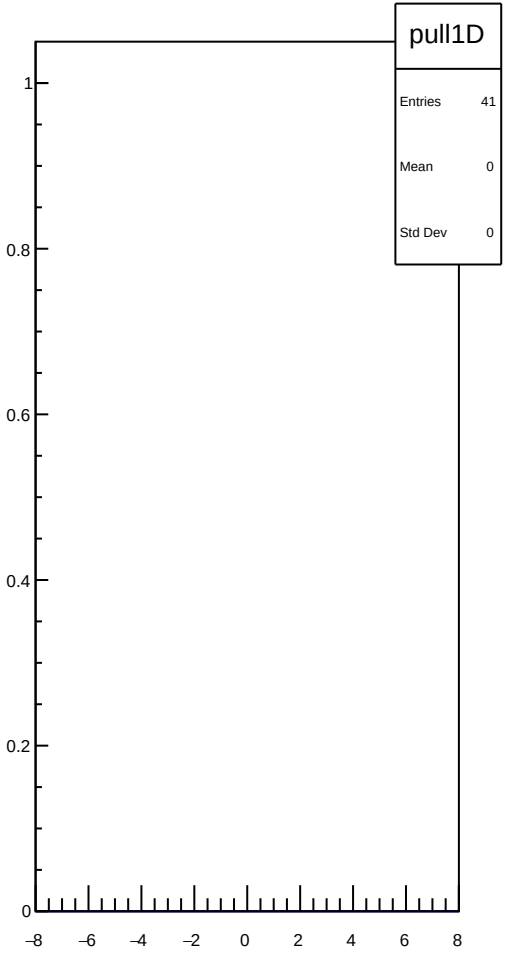

yield_bpm4ecY_rms vs run
χ² / ndf 1.216e+05 / 40
p0 0.01084 ± 1.326e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

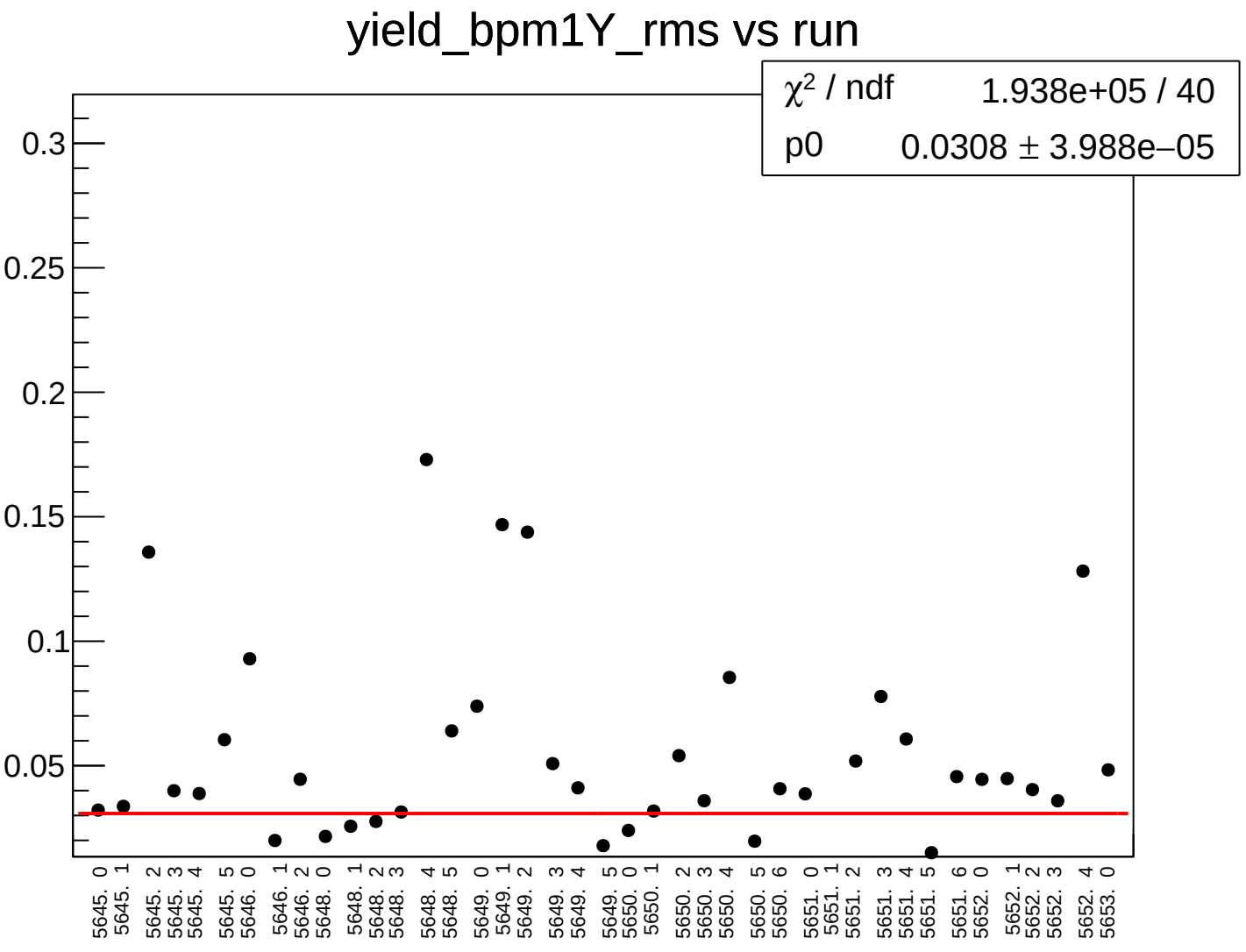

yield_bpm1X_mean vs run
χ² / ndf 8.566e+05 / 40
p0 0.09425 ± 7.285e−05
pull
Entries 41
Mean 86.02
Std Dev 0

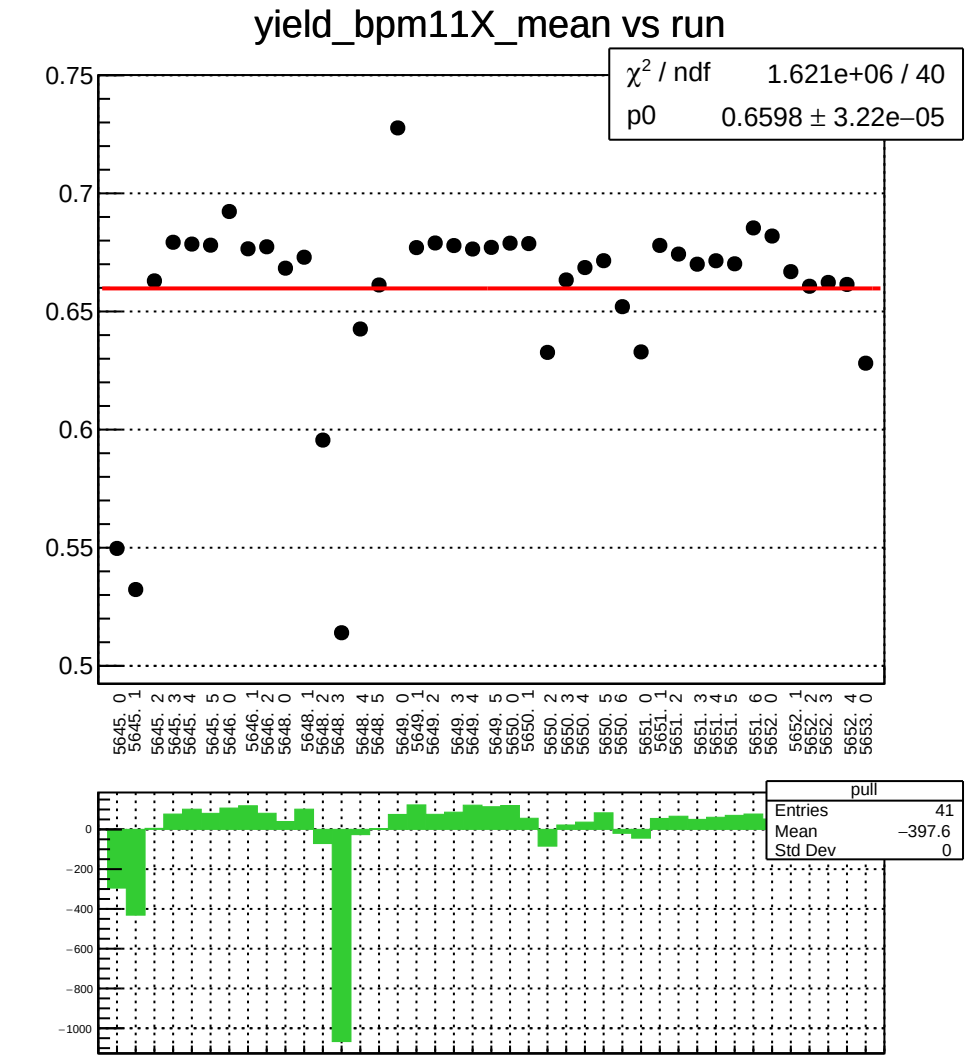

pull1D
Entries 41
Mean 1.524
Std Dev 1.575

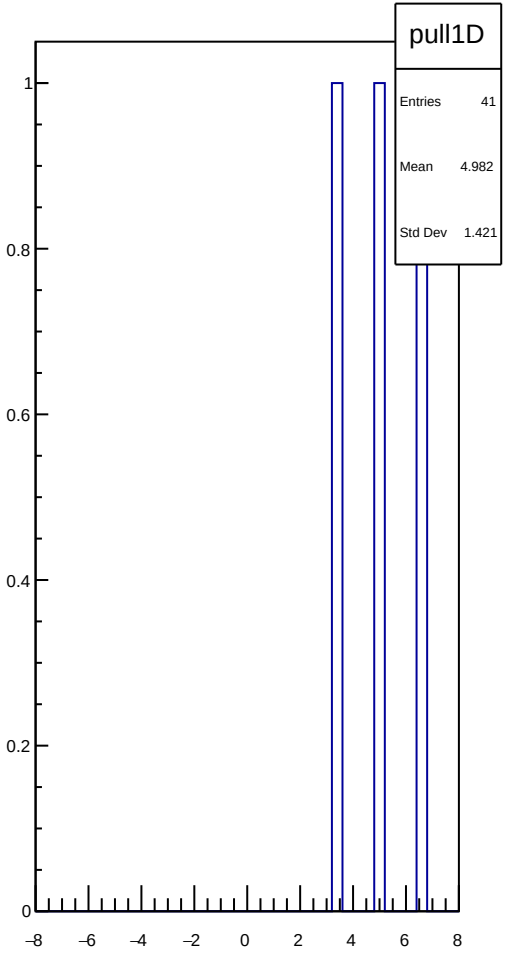

yield_bpm1X_rms vs run
χ² / ndf 1.507e+05 / 40
p0 0.04119 ± 5.151e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

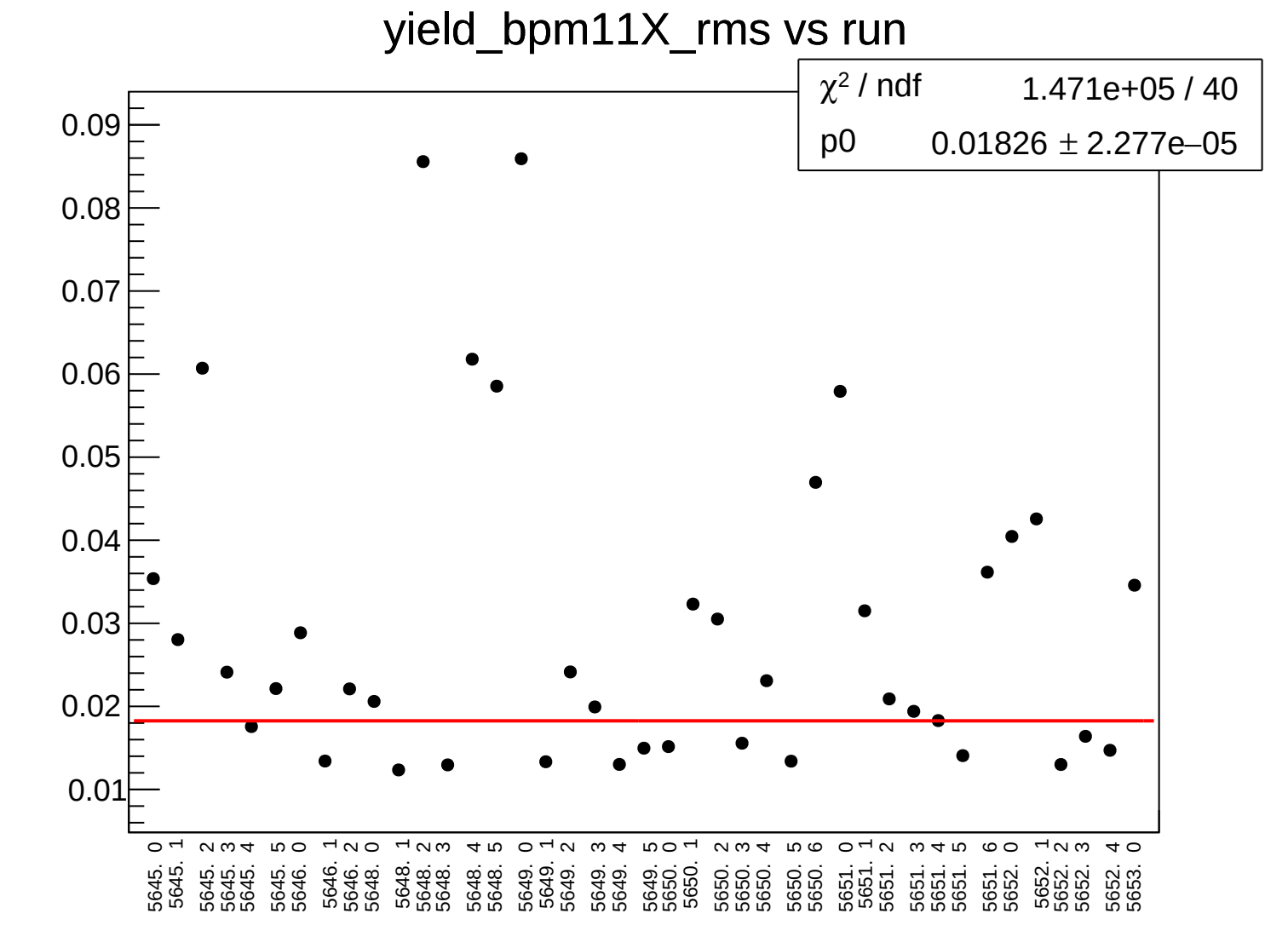

yield_bpm1Y_mean vs run
χ² / ndf 1.949e+06 / 40
p0 0.3545 ± 5.639e−05
pull
Entries 41
Mean −200.9
Std Dev 0

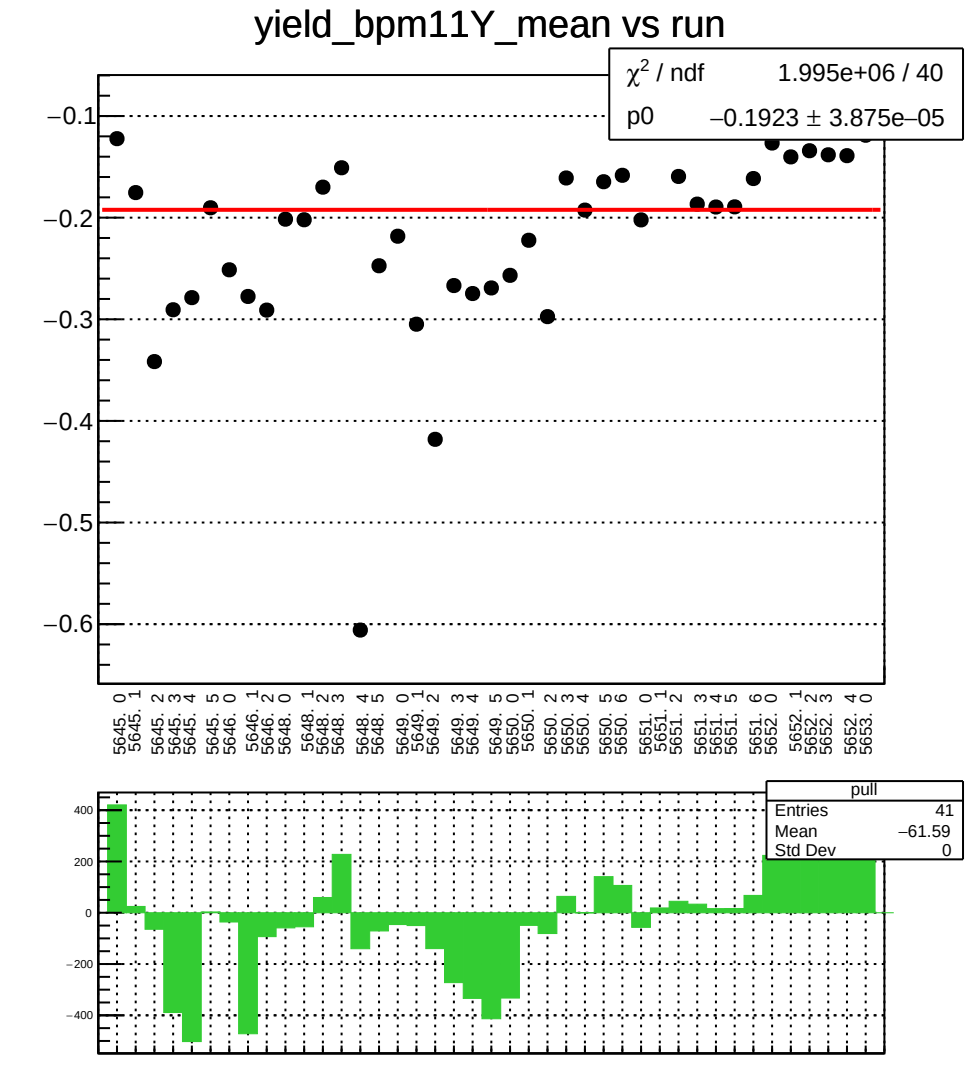

pull1D
Entries 41
Mean 0
Std Dev 0

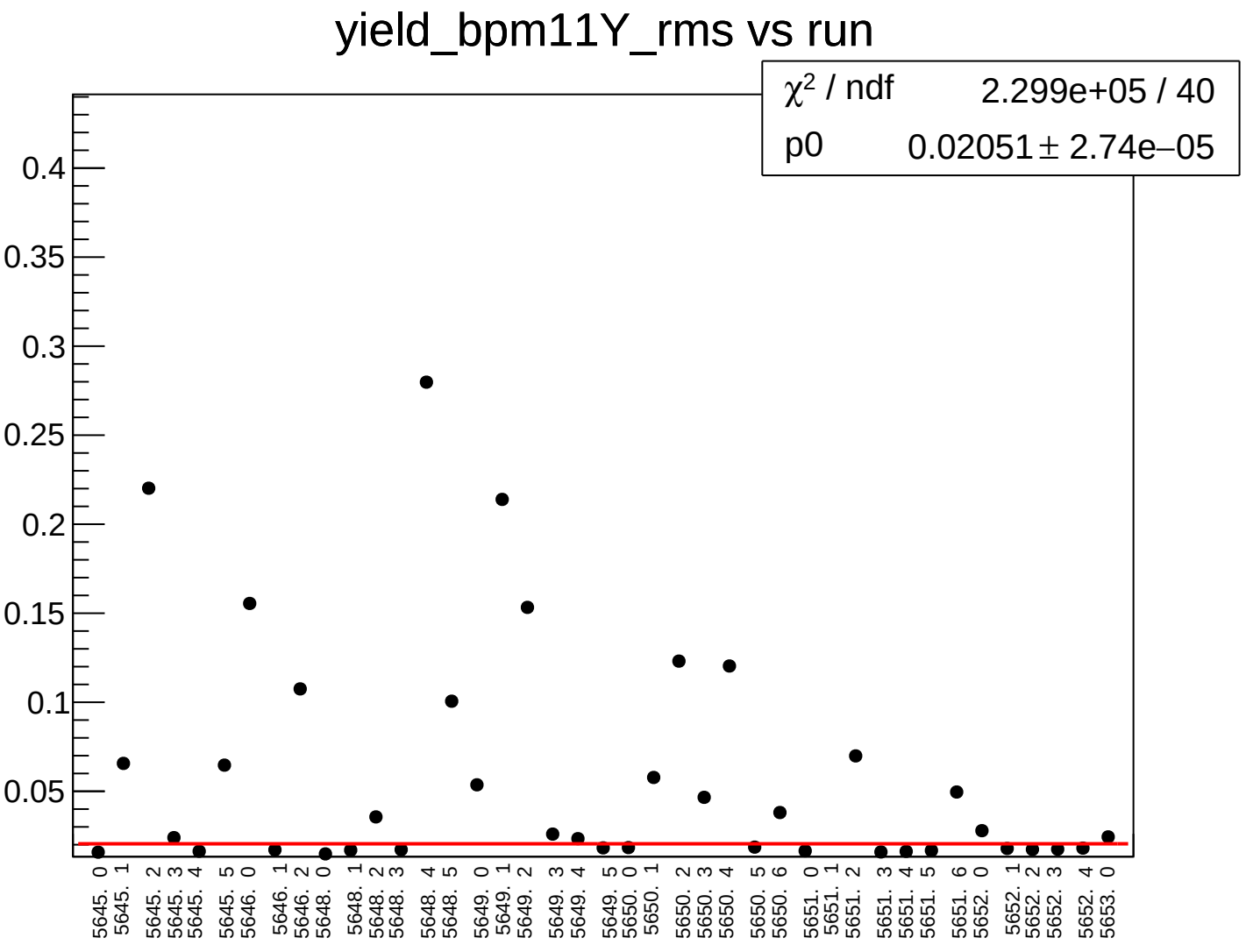

yield_bpm1Y_rms vs run
χ² / ndf 1.938e+05 / 40
p0 0.0308 ± 3.988e−05
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

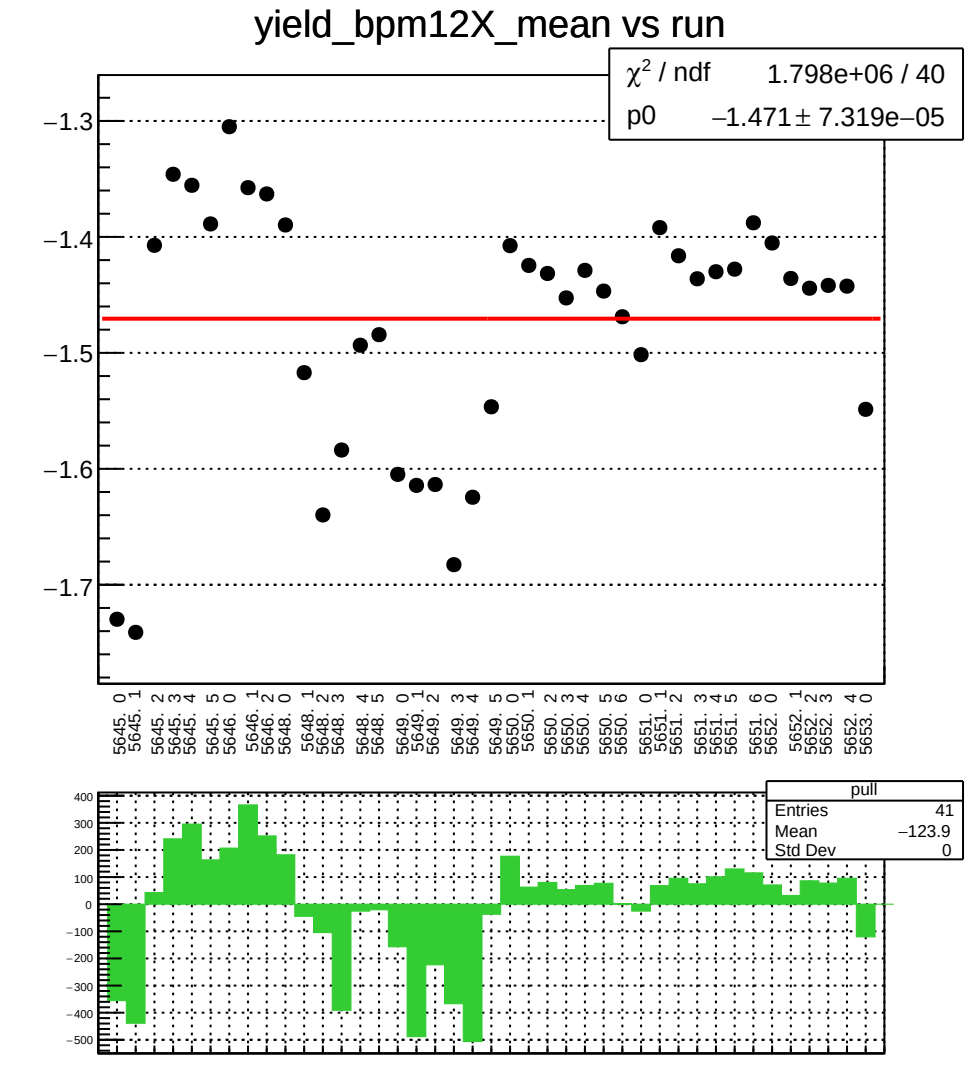

yield_bpm11X_mean vs run
χ² / ndf 1.621e+06 / 40
p0 0.6598 ± 3.22e−05
pull
Entries 41
Mean −397.6
Std Dev 0

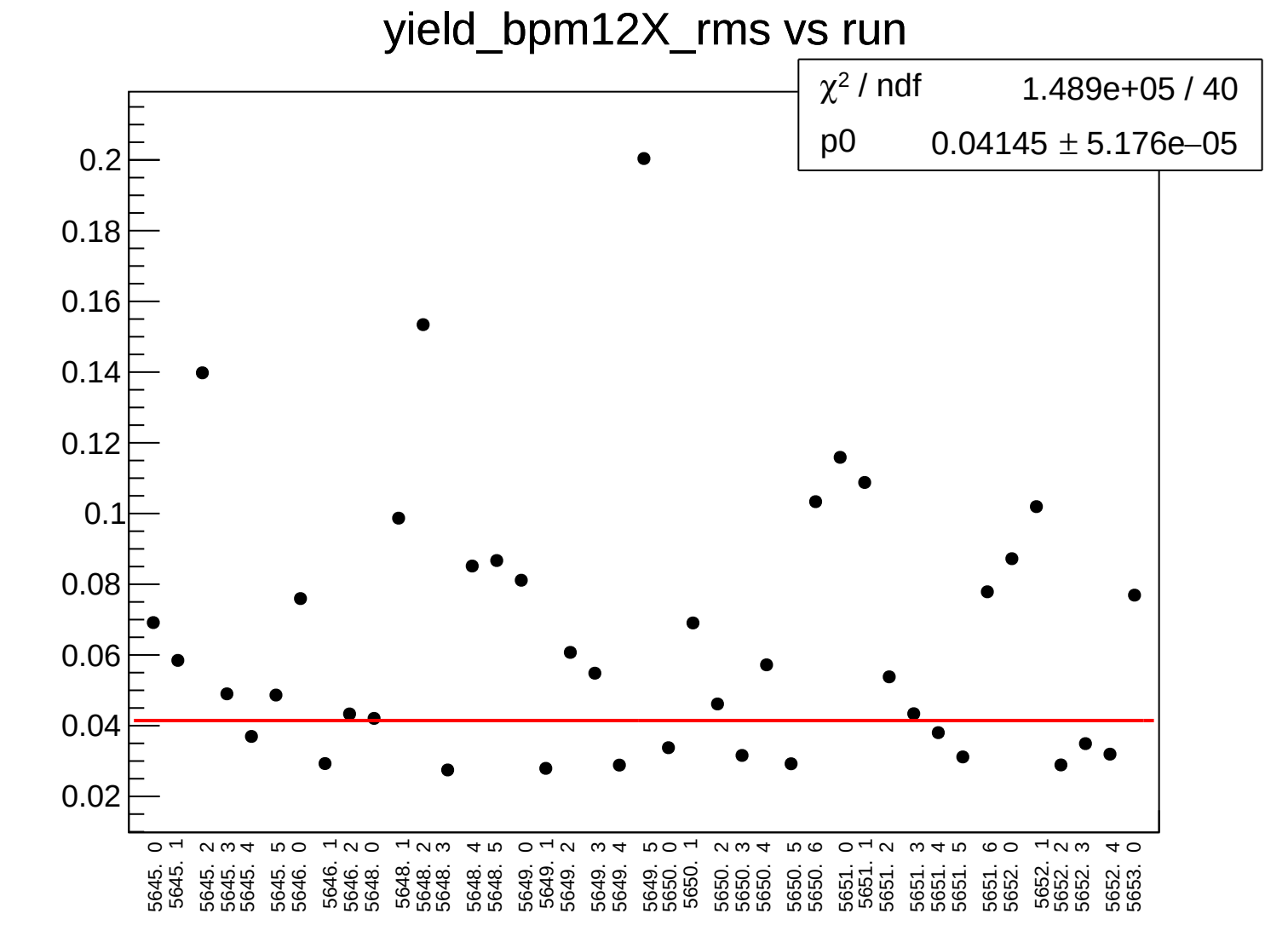

pull1D
Entries 41
Mean 4.982
Std Dev 1.421

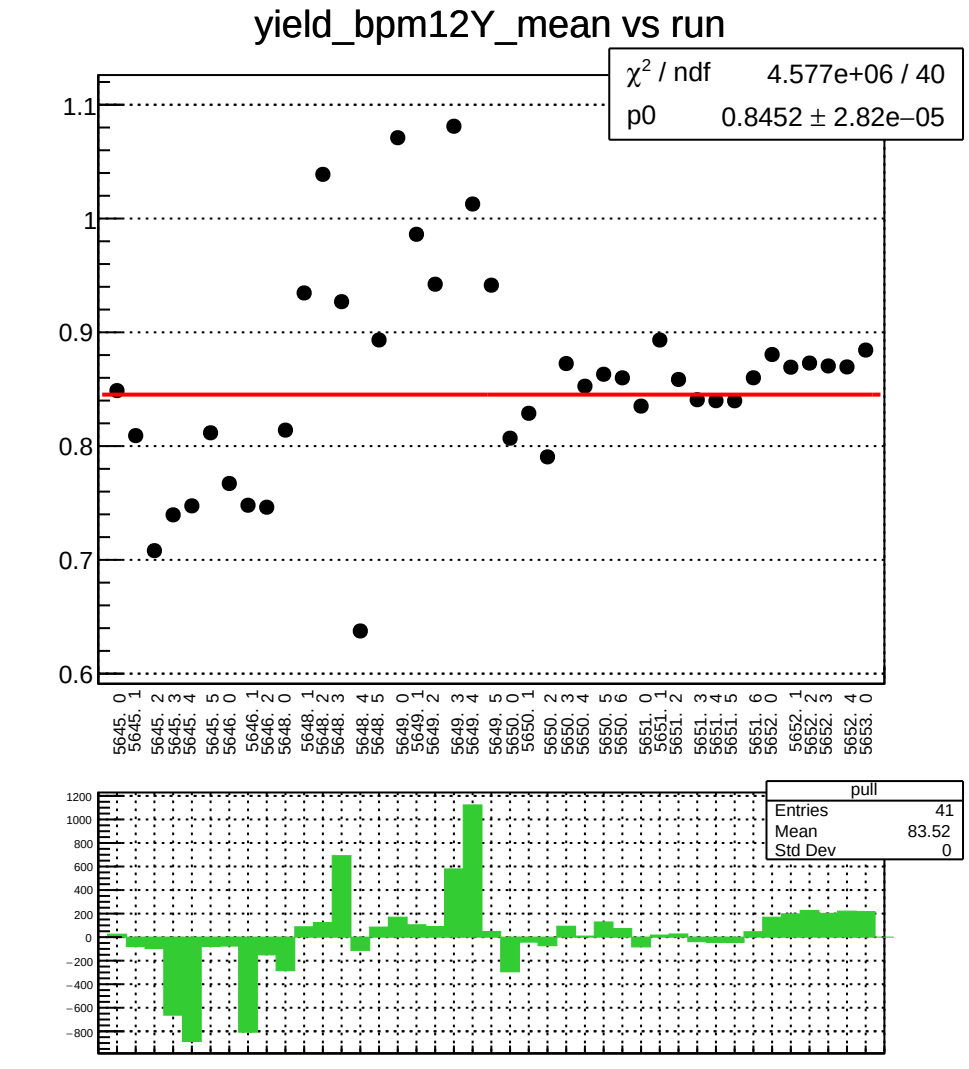

yield_bpm11X_rms vs run
χ² / ndf 1.471e+05 / 40
p0 0.01826 ± 2.277e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

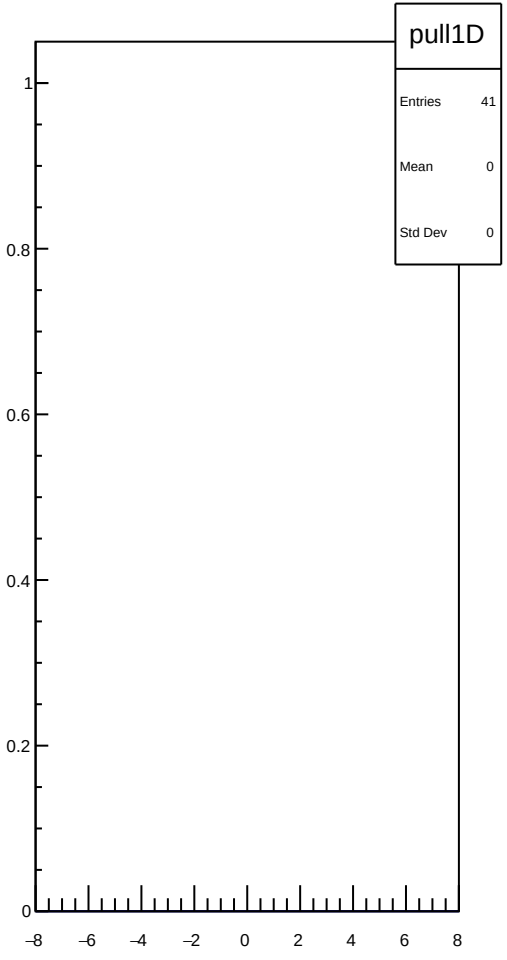

yield_bpm11Y_mean vs run
χ² / ndf 1.995e+06 / 40
p0 −0.1923 ± 3.875e−05
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −61.59
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 41
Mean 1.393
Std Dev 1.624
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

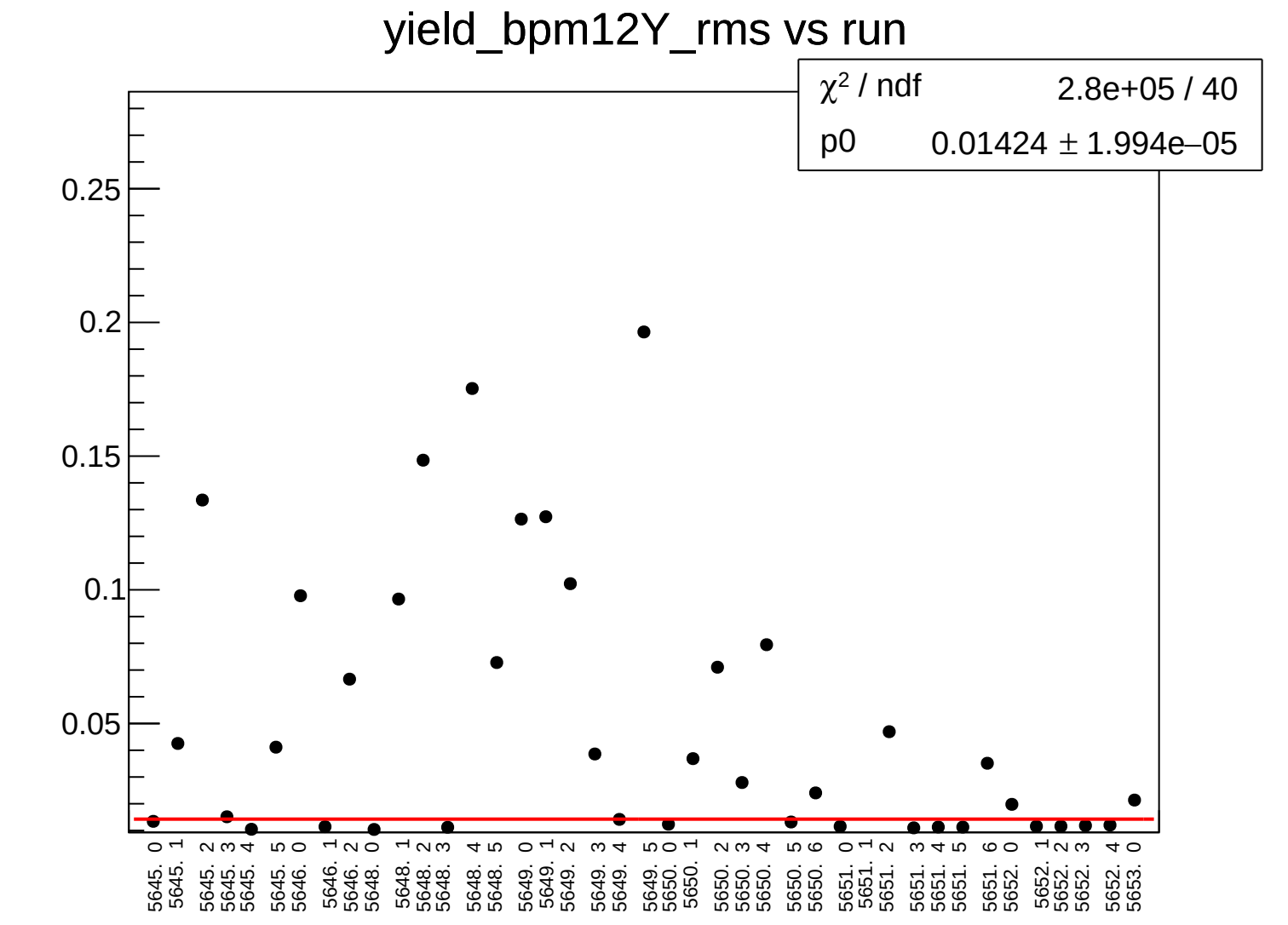

yield_bpm11Y_rms vs run
χ² / ndf 2.299e+05 / 40
p0 0.02051 ± 2.74e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

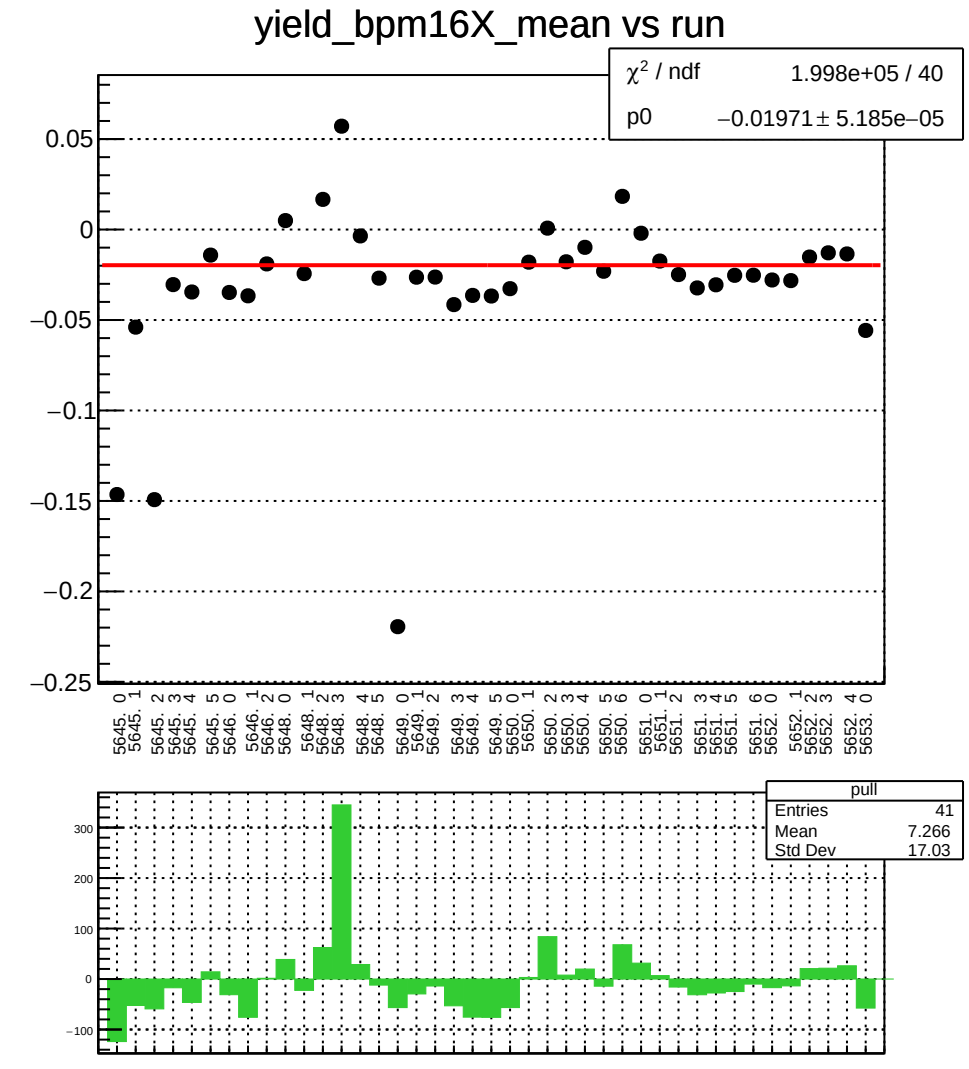

yield_bpm12X_mean vs run
χ² / ndf 1.798e+06 / 40
p0 −1.471 ± 7.319e−05
−1.3
−1.4
−1.5
−1.6
−1.7
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −123.9
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 41
Mean 1.912
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

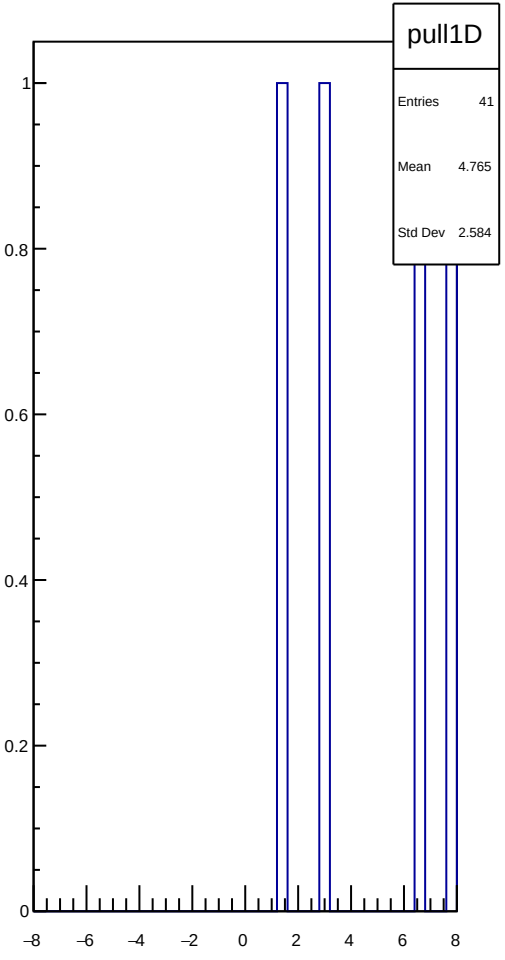

yield_bpm12X_rms vs run
χ² / ndf 1.489e+05 / 40
p0 0.04145 ± 5.176e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

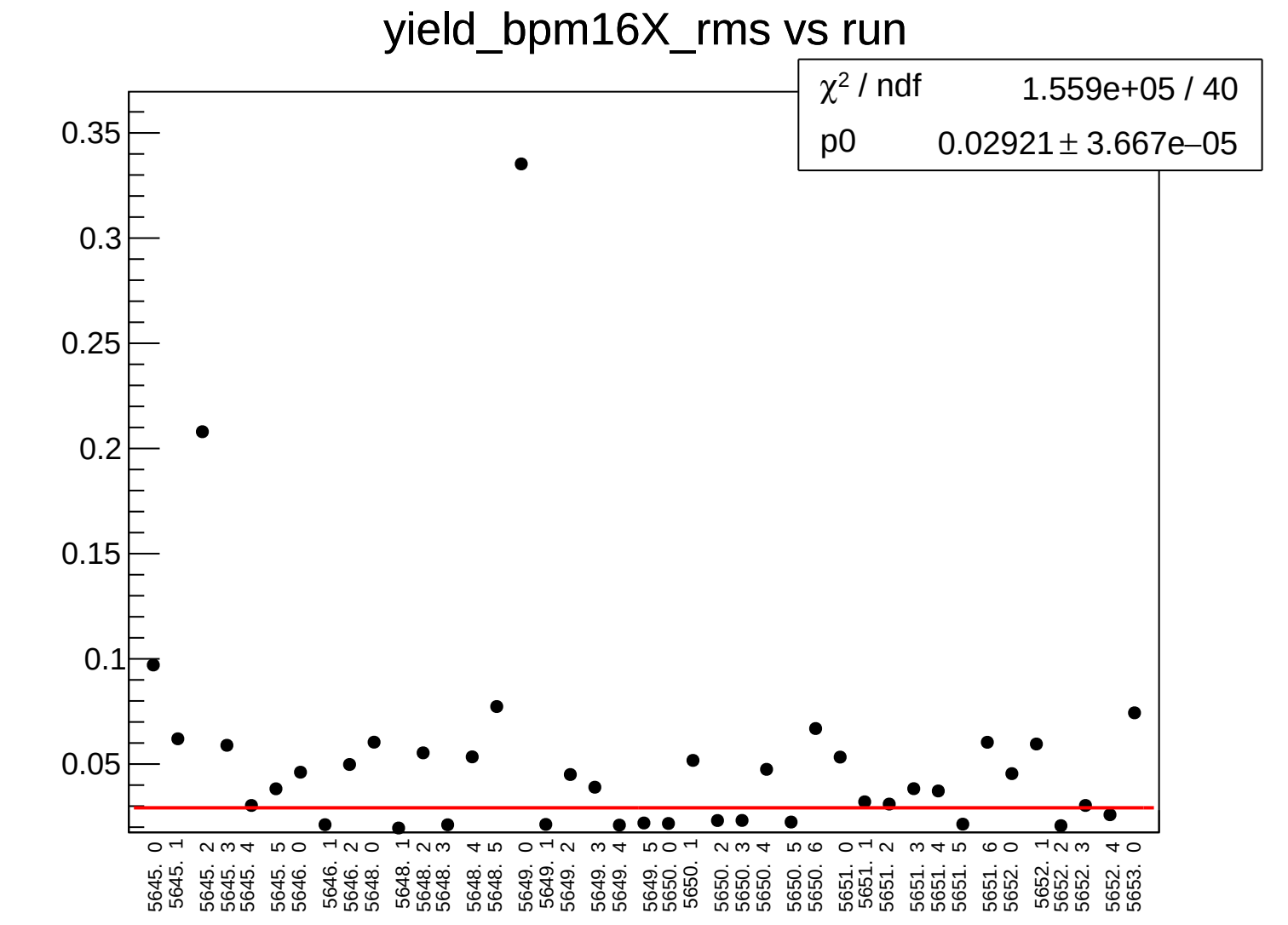

yield_bpm12Y_mean vs run
χ² / ndf 4.577e+06 / 40
p0 0.8452 ± 2.82e−05
pull
Entries 41
Mean 83.52
Std Dev 0

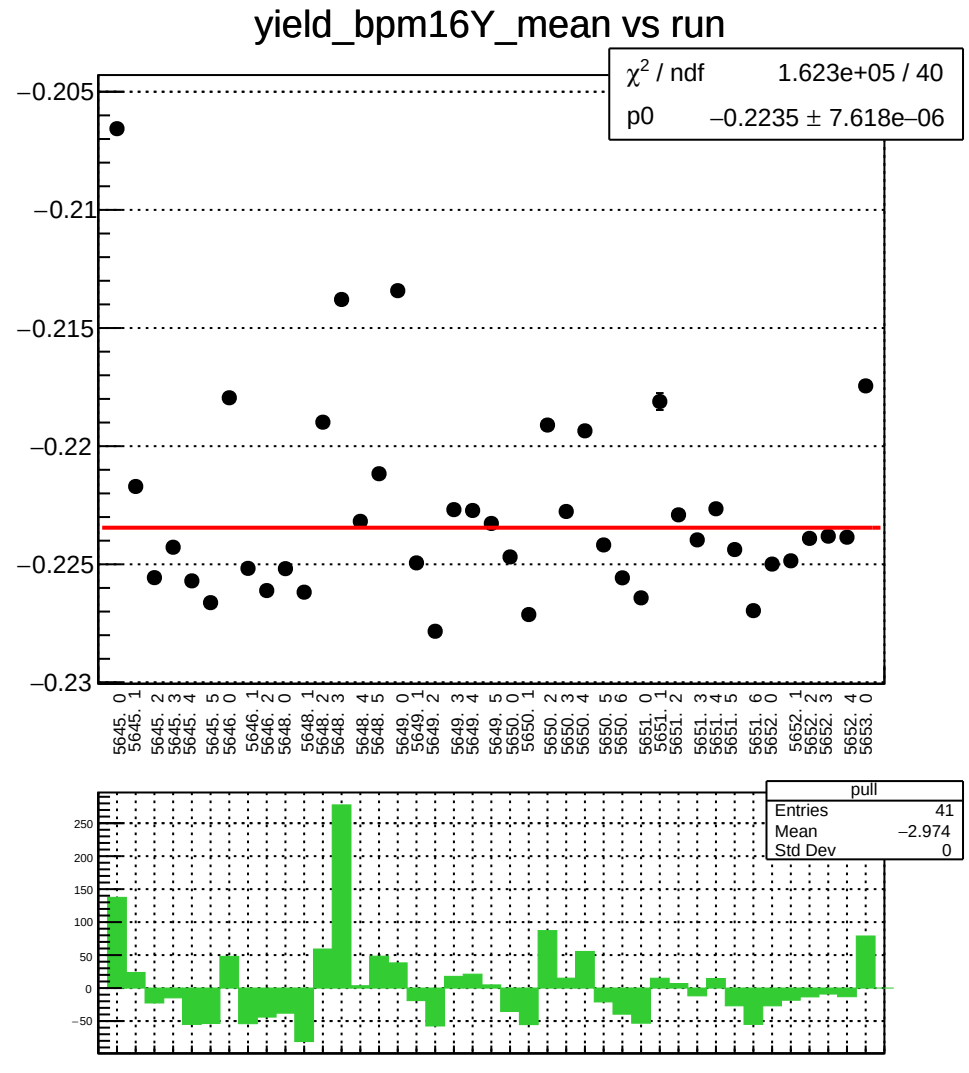

pull1D
Entries 41
Mean 0
Std Dev 0

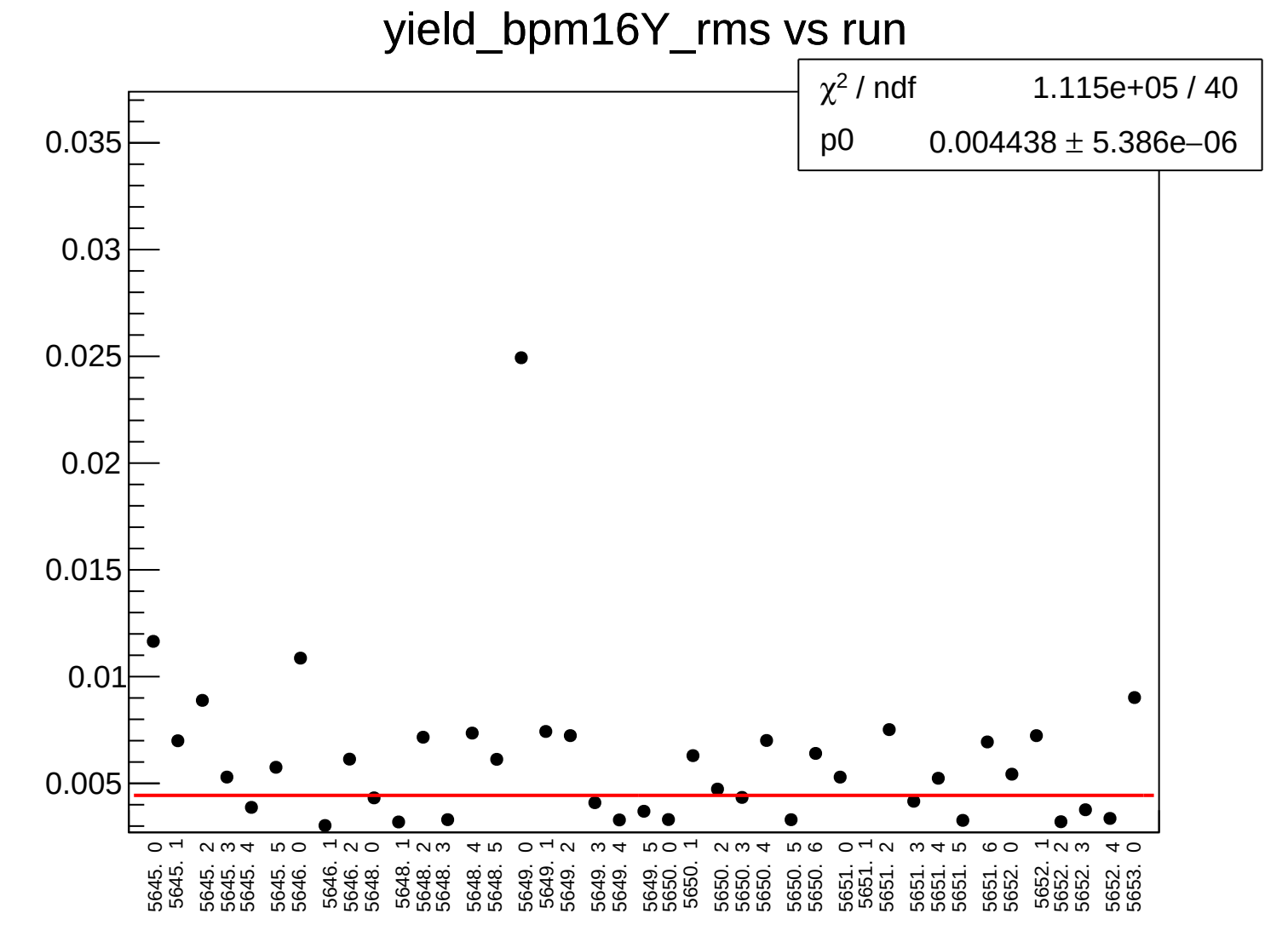

yield_bpm12Y_rms vs run
χ² / ndf 2.8e+05 / 40
p0 0.01424 ± 1.994e−05
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

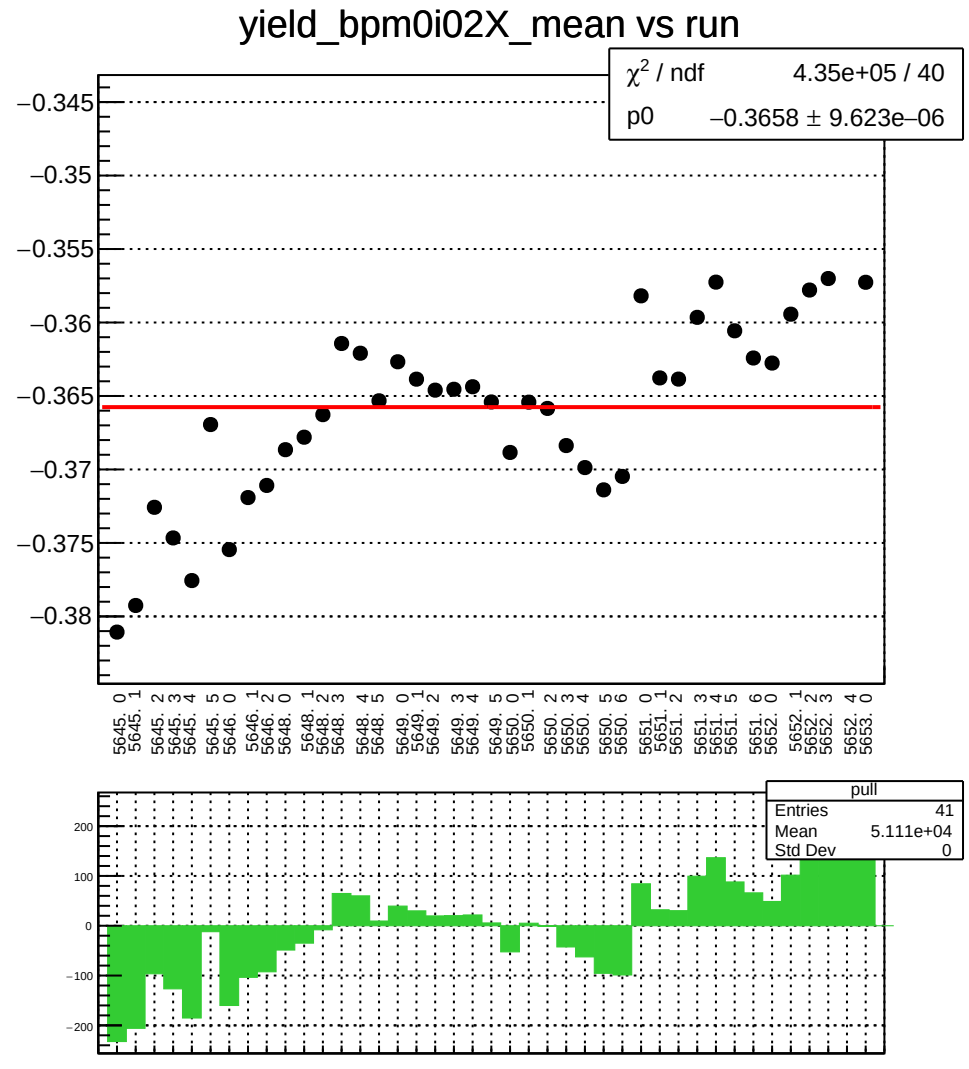

yield_bpm16X_mean vs run
χ² / ndf 1.998e+05 / 40
p0 −0.01971 ± 5.185e−05
pull
Entries 41
Mean 7.266
Std Dev 17.03

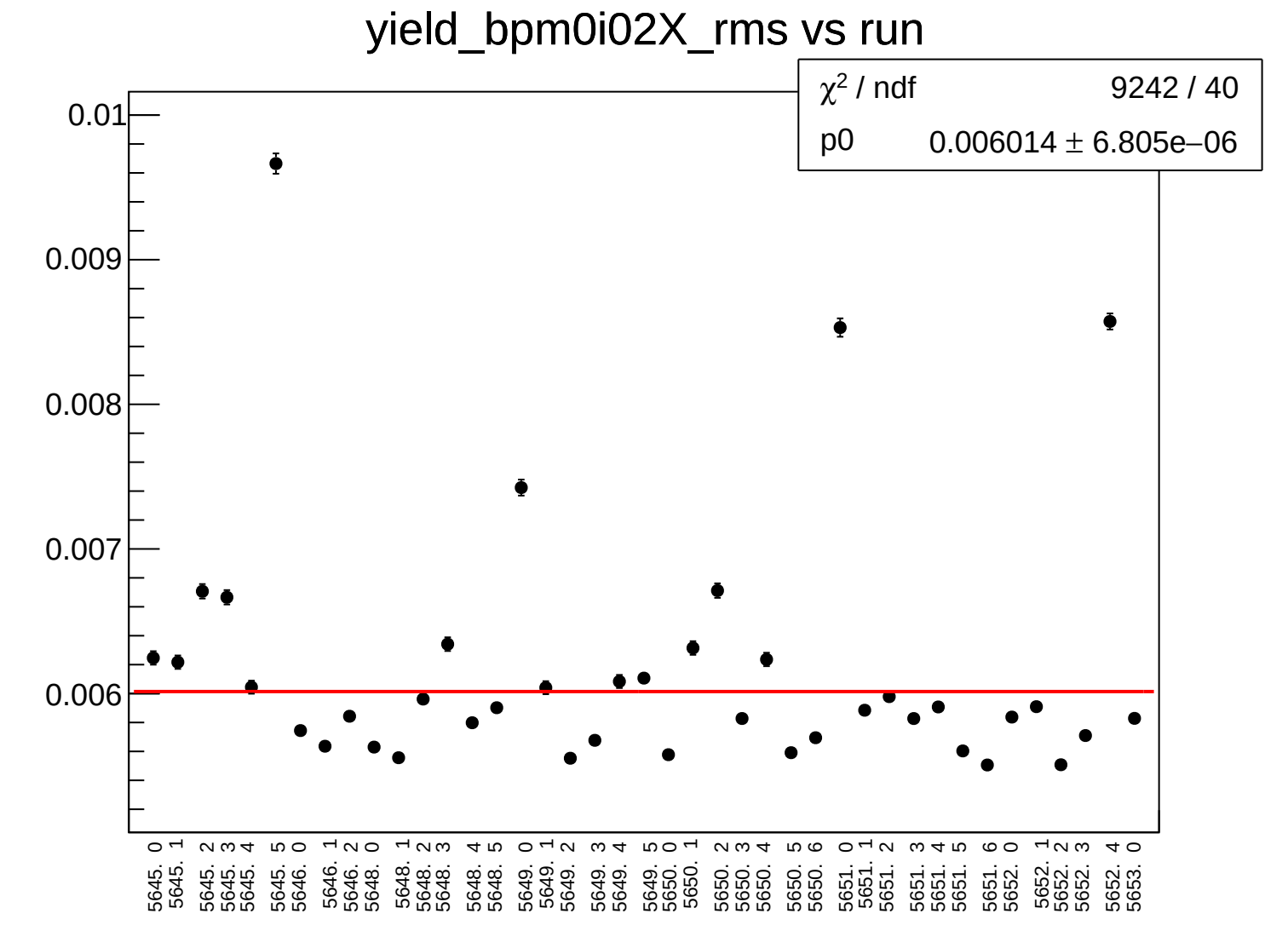

pull1D
Entries 41
Mean 4.765
Std Dev 2.584

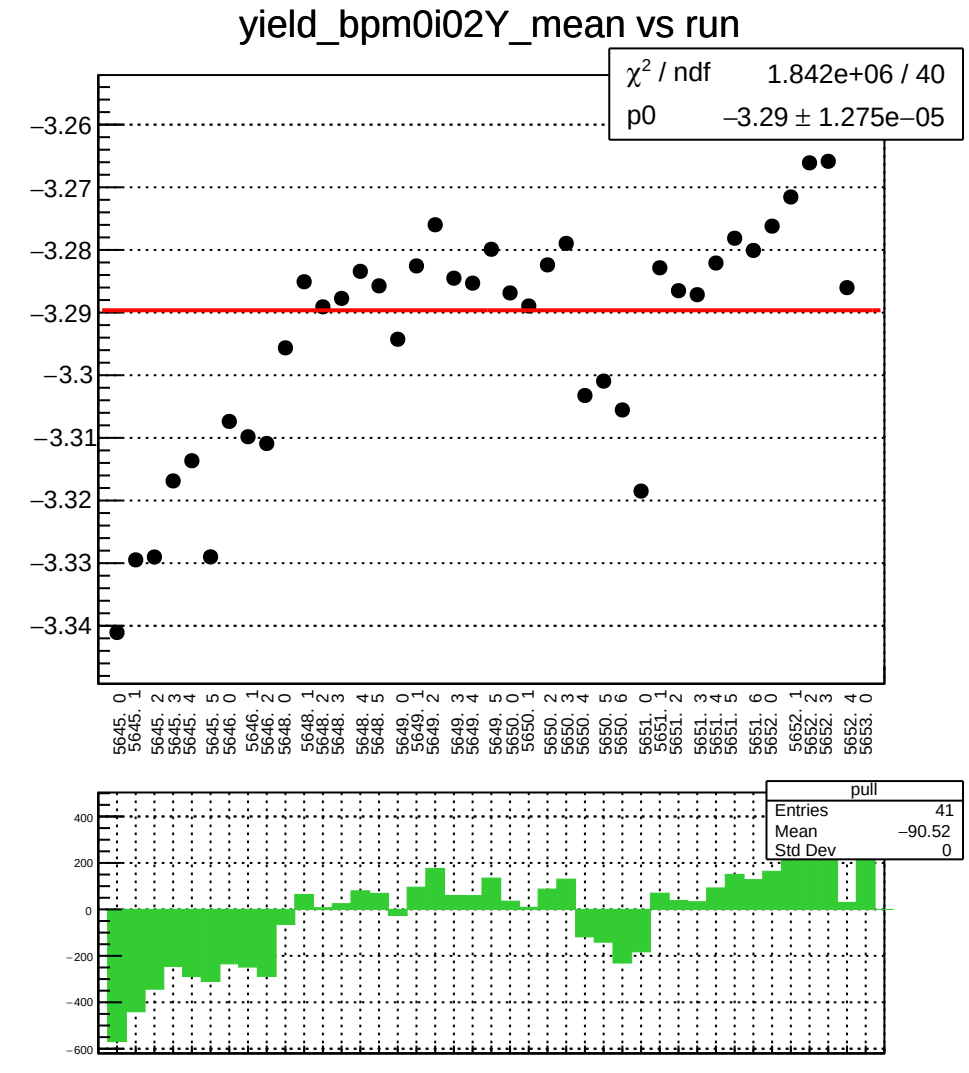

yield_bpm16X_rms vs run
χ² / ndf 1.559e+05 / 40
p0 0.02921 ± 3.667e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

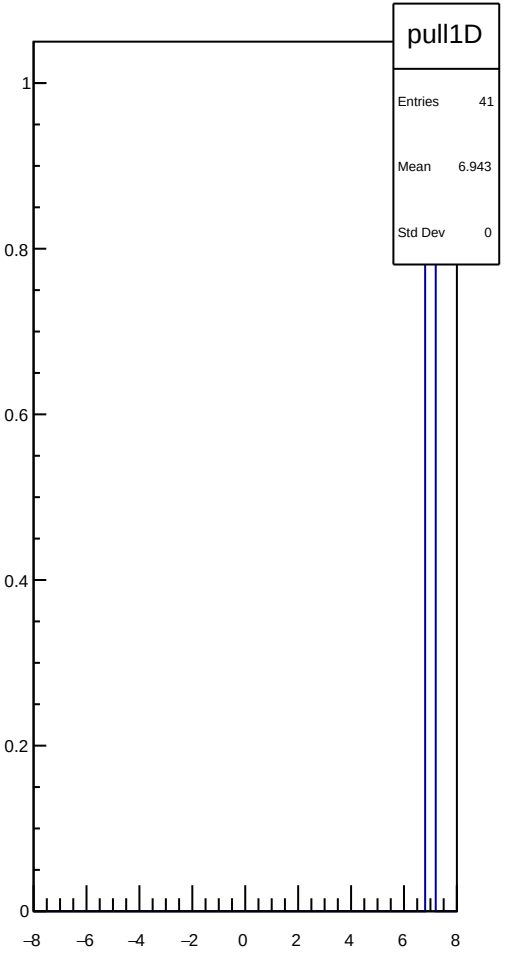

yield_bpm16Y_mean vs run
χ² / ndf 1.623e+05 / 40
p0 −0.2235 ± 7.618e−06
−0.205
−0.21
−0.215
−0.22
−0.225
−0.23
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2.974
Std Dev 0
250
200
150
100
50
0
−50
pull1D
Entries 41
Mean 5.044
Std Dev 1.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

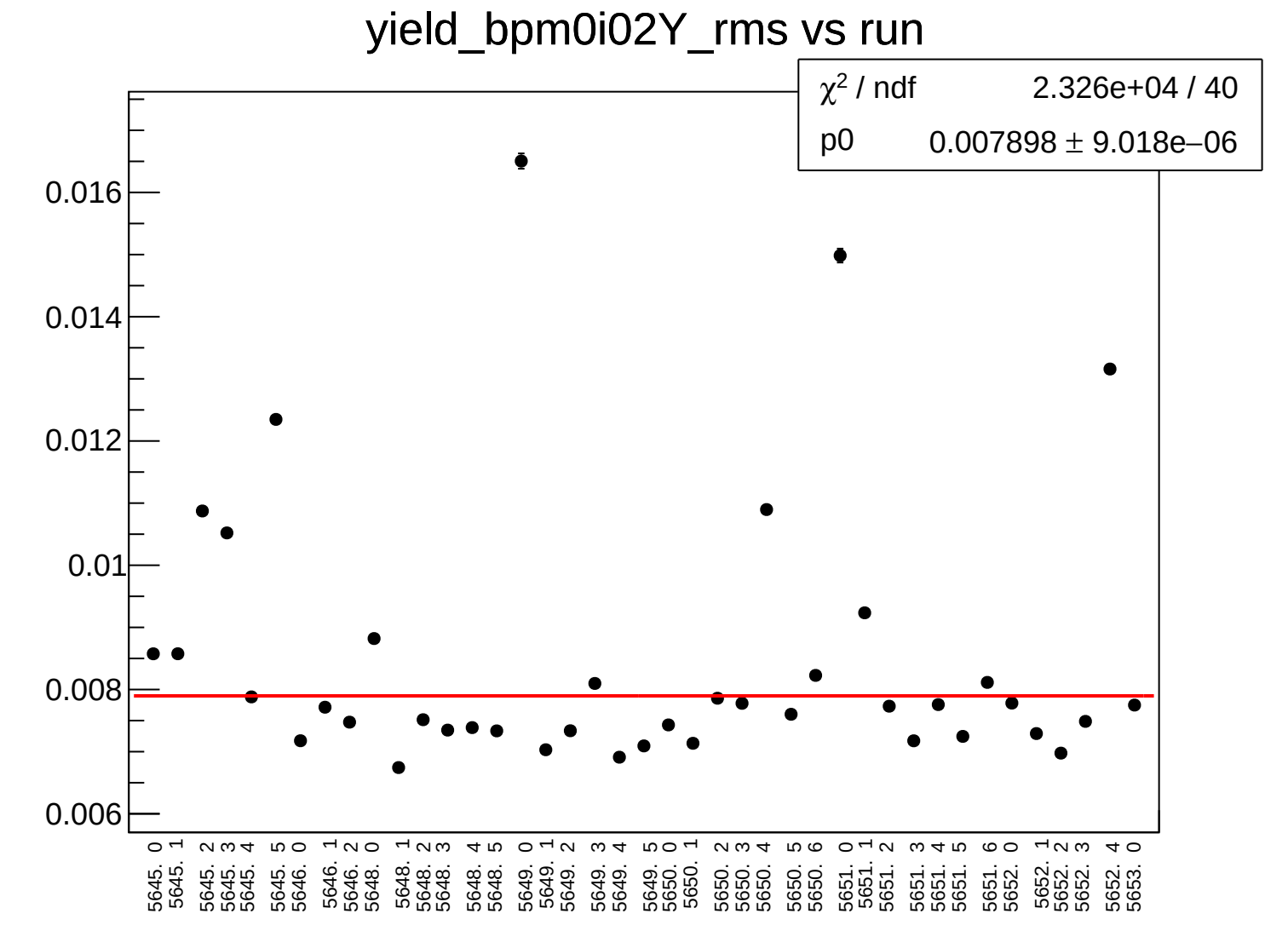

yield_bpm16Y_rms vs run
χ² / ndf 1.115e+05 / 40
p0 0.004438 ± 5.386e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

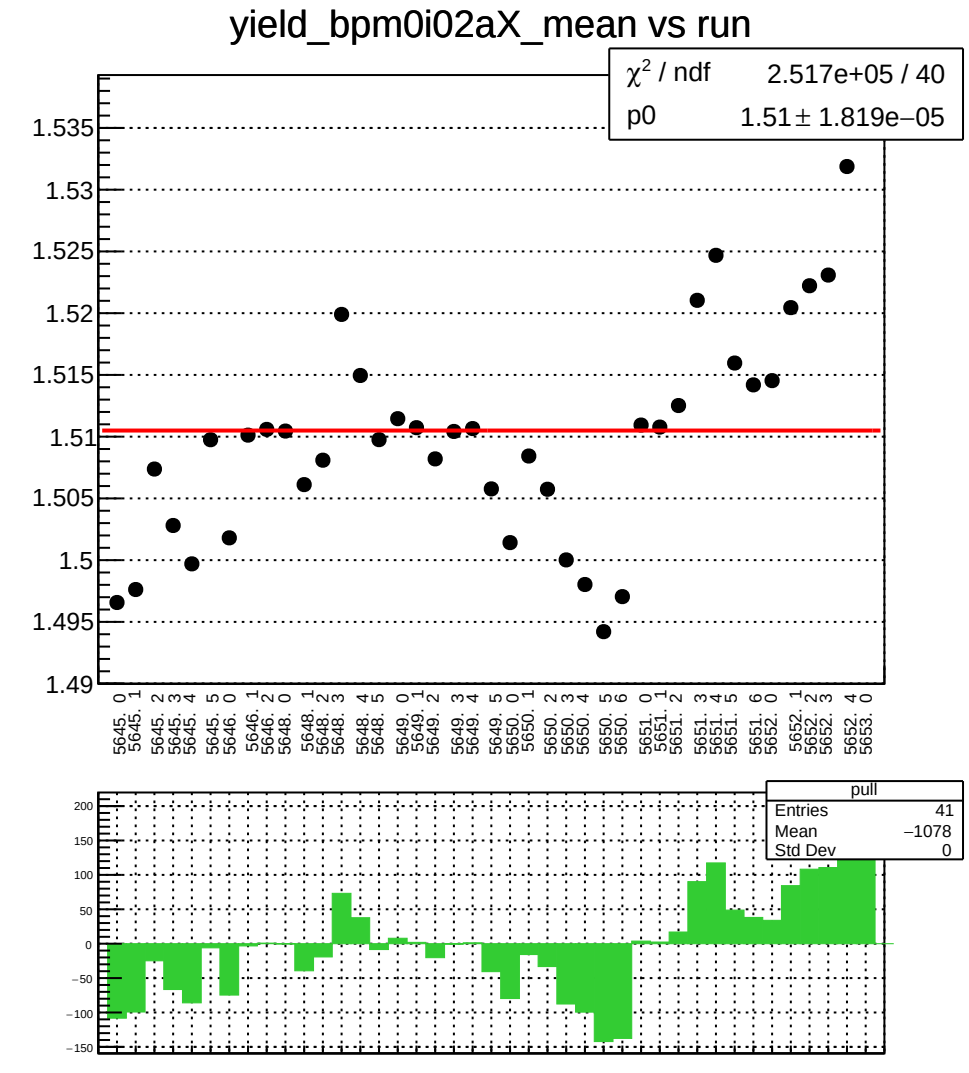

yield_bpm0i02X_mean vs run
χ² / ndf 4.35e+05 / 40
p0 −0.3658 ± 9.623e−06
−0.345
−0.35
−0.355
−0.36
−0.365
−0.37
−0.375
−0.38
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 5.111e+04
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 41
Mean 3.151
Std Dev 3.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

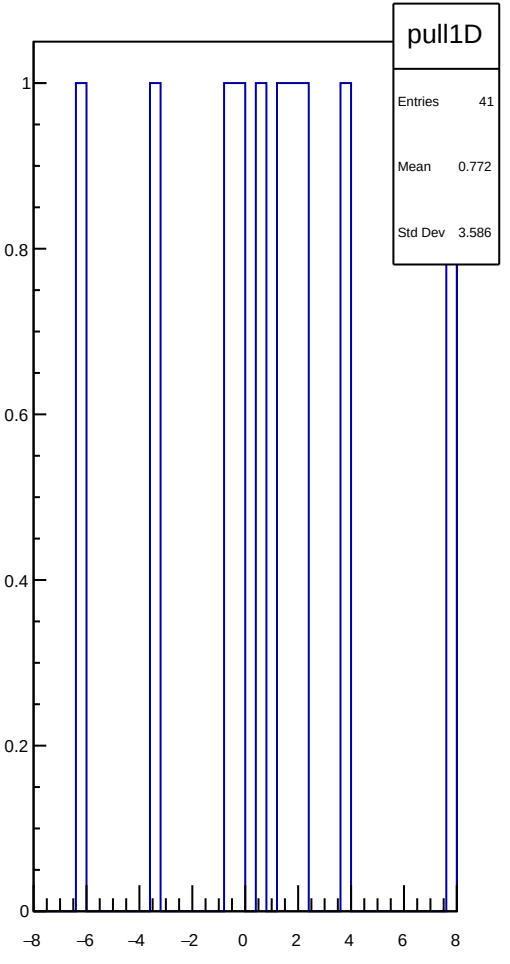

yield_bpm0i02X_rms vs run
χ² / ndf 9242 / 40
p0 0.006014 ± 6.805e−06
0.01
0.009
0.008
0.007
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

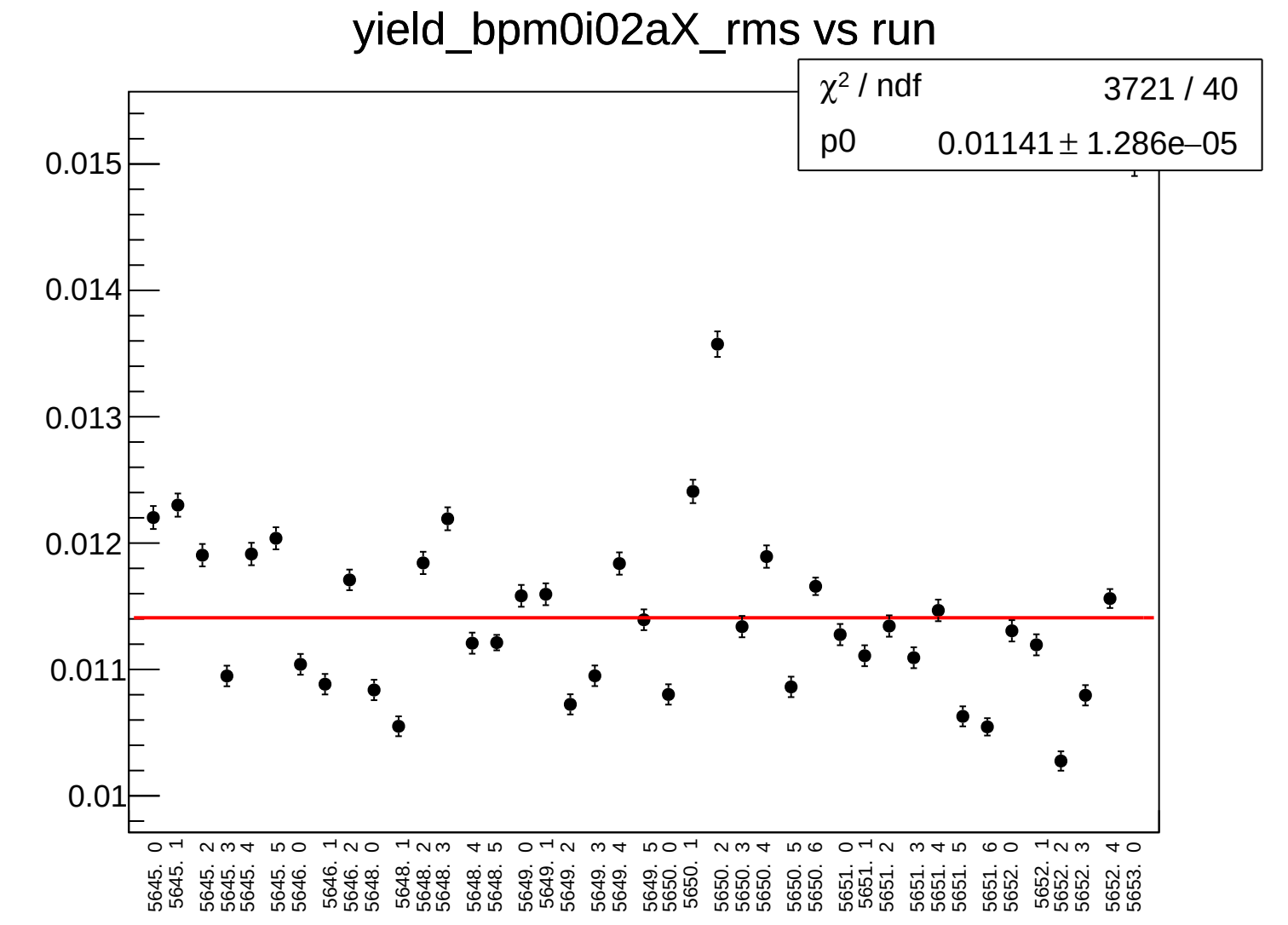

yield_bpm0i02Y_mean vs run
χ² / ndf 1.842e+06 / 40
p0 −3.29 ± 1.275e−05
−3.26
−3.27
−3.28
−3.29
−3.3
−3.31
−3.32
−3.33
−3.34
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −90.52
Std Dev 0
400
200
0
−200
−400
−600

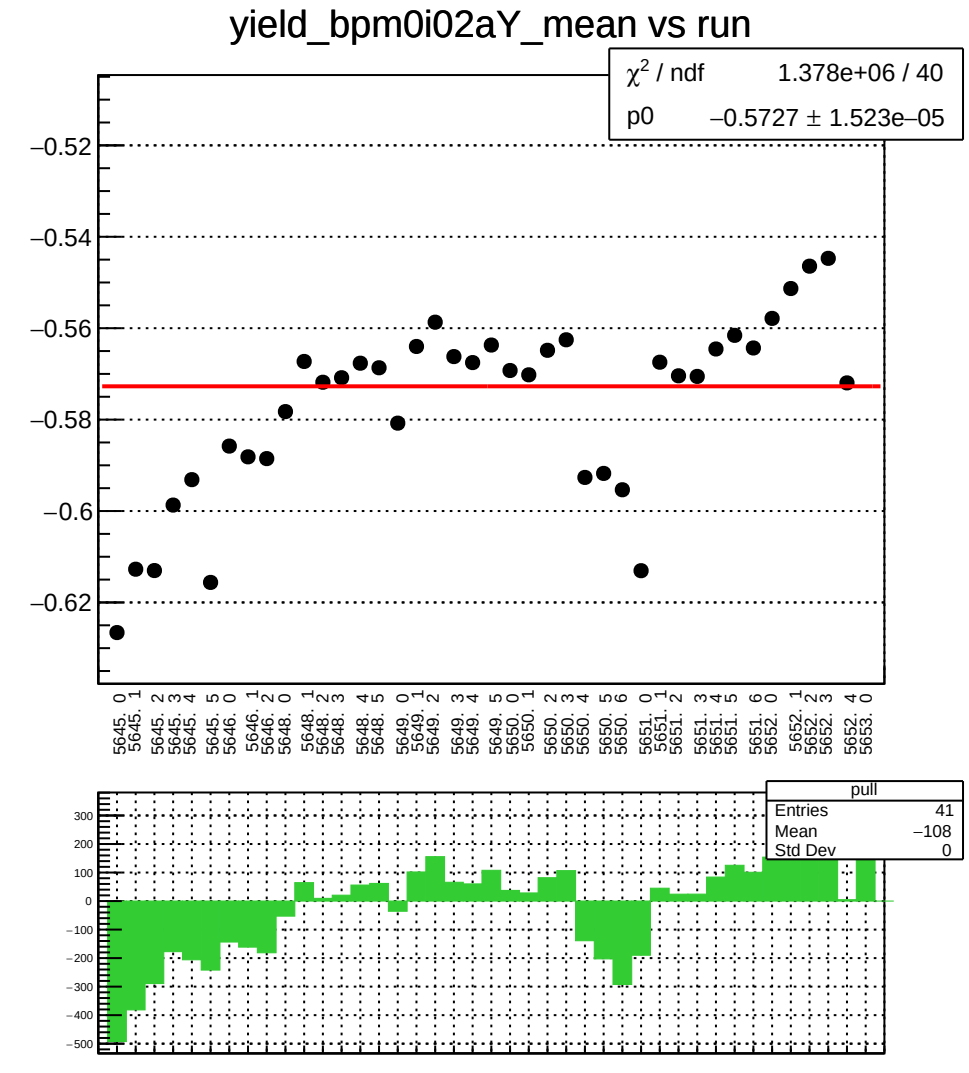

pull1D
Entries 41
Mean 6.943
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

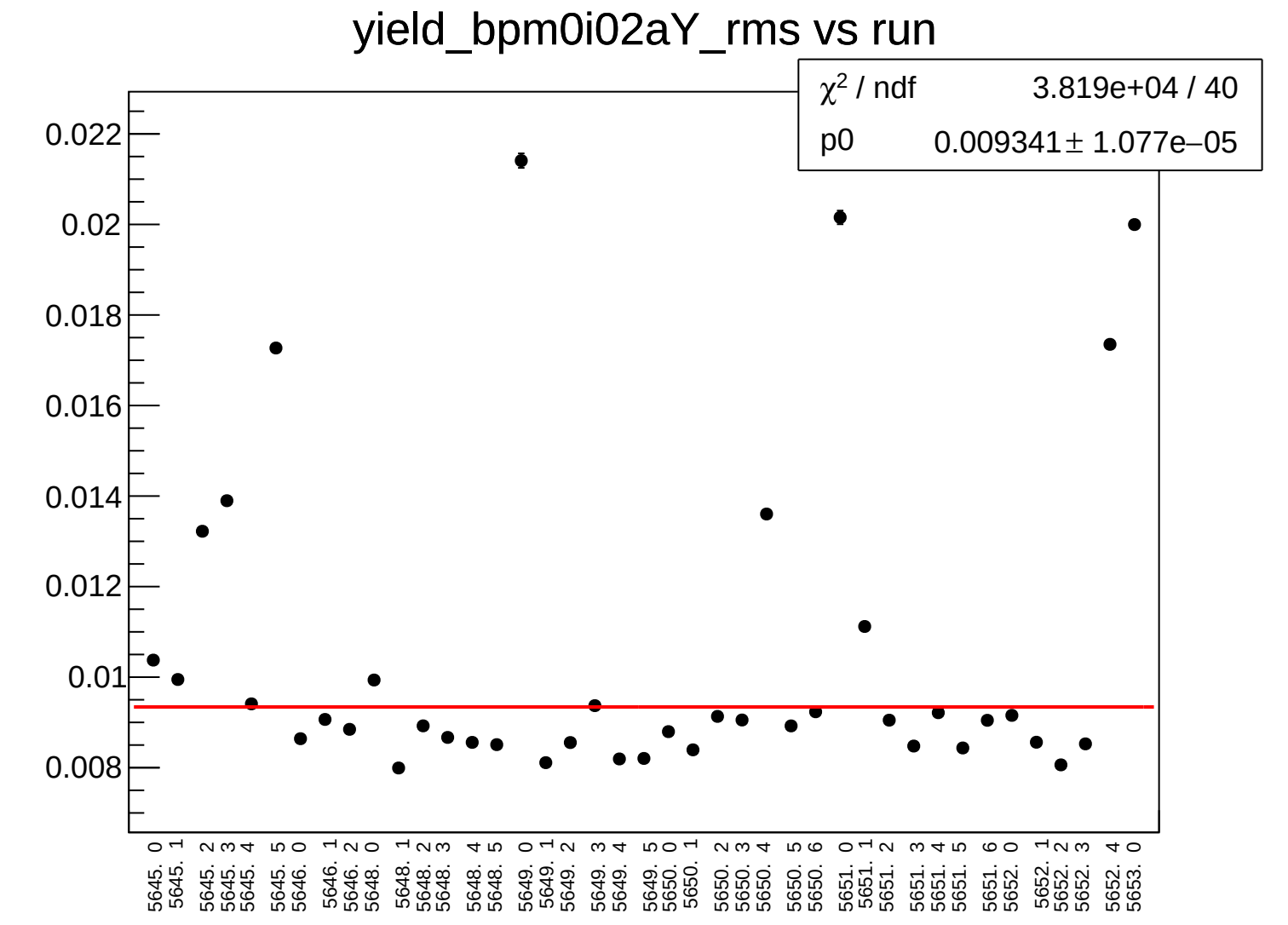

yield_bpm0i02Y_rms vs run
χ² / ndf 2.326e+04 / 40
p0 0.007898 ± 9.018e−06
0.016
0.014
0.012
0.01
0.008
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

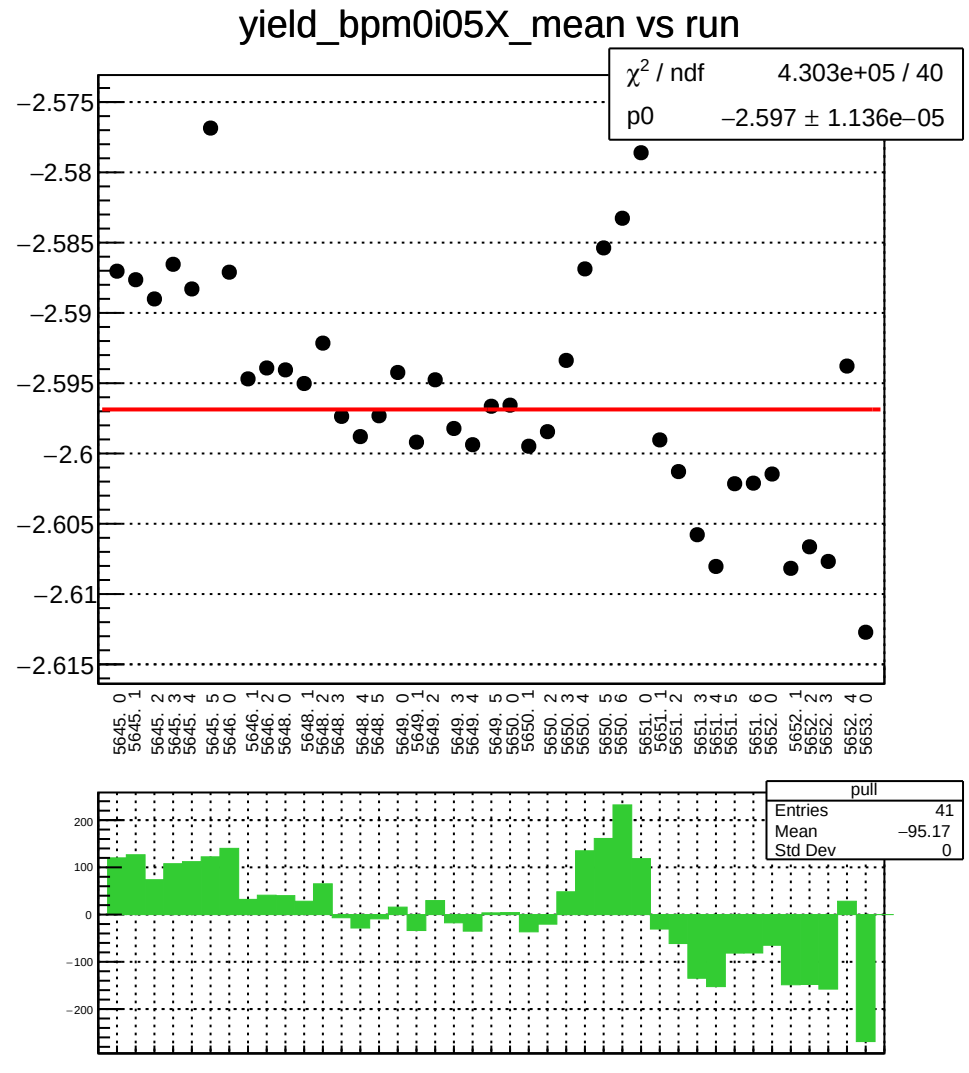

yield_bpm0i02aX_mean vs run
χ² / ndf 2.517e+05 / 40
p0 1.51 ± 1.819e−05
1.535
1.53
1.525
1.52
1.515
1.51
1.505
1.5
1.495
1.49
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1078
Std Dev 0
200
150
100
50
0
−50
−100
−150

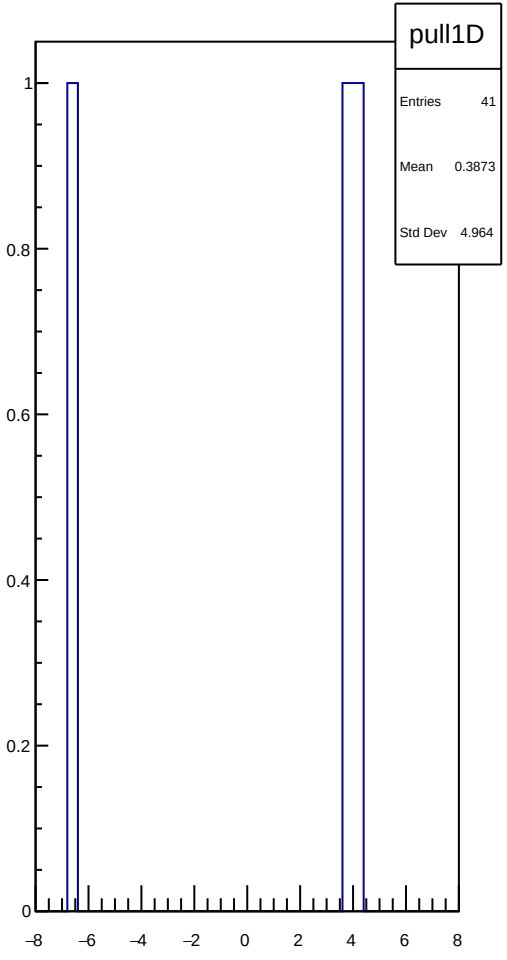

pull1D
Entries 41
Mean 0.772
Std Dev 3.586
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

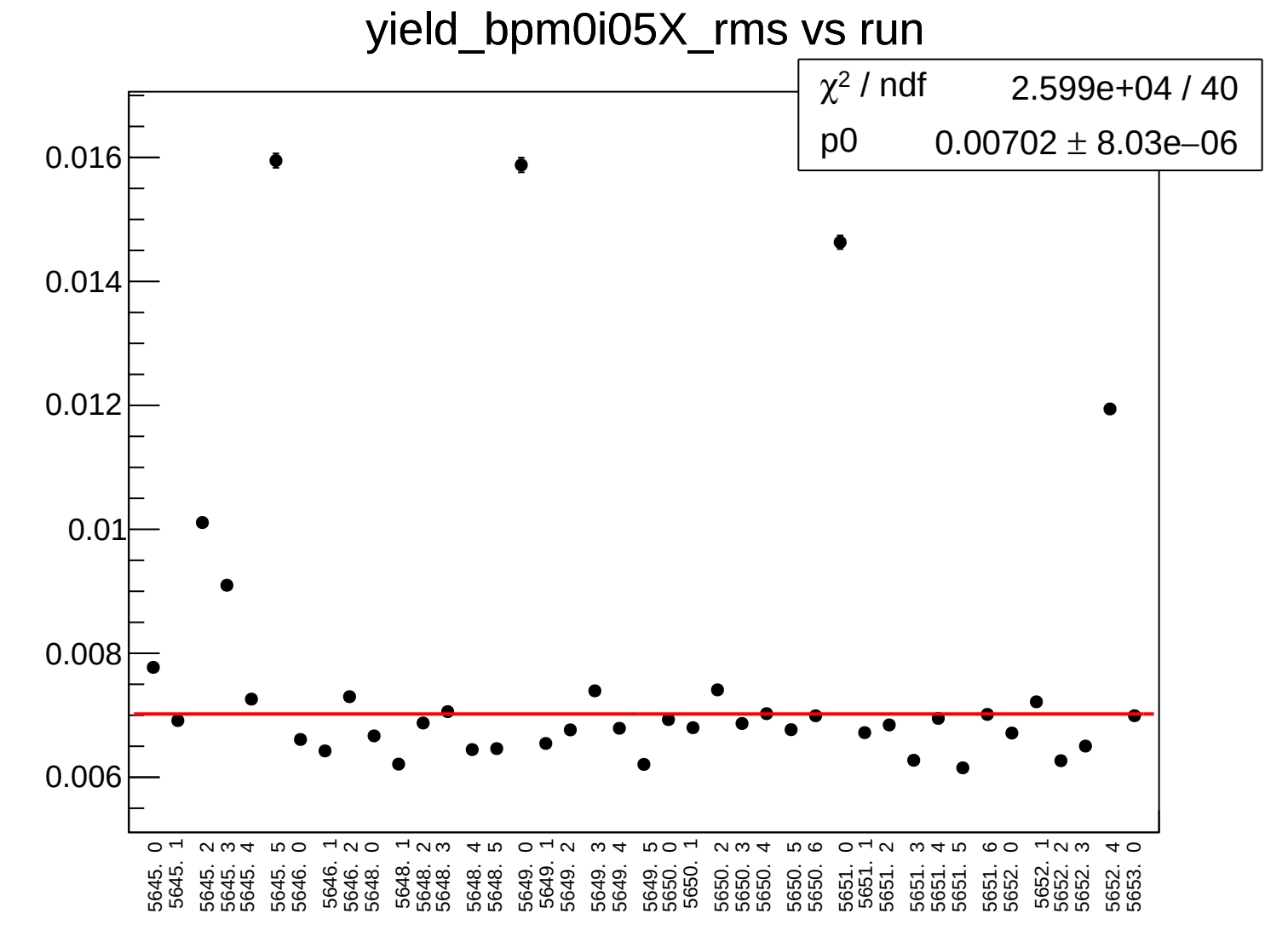

yield_bpm0i02aX_rms vs run
χ² / ndf 3721 / 40
p0 0.01141 ± 1.286e–05
0.015
0.014
0.013
0.012
0.011
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


yield_bpm0i02aY_mean vs run
χ² / ndf 1.378e+06 / 40
p0 −0.5727 ± 1.523e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −108
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 41
Mean 4.706
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 3.819e+04 / 40
p0 0.009341 ± 1.077e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


yield_bpm0i05X_mean vs run
χ² / ndf 4.303e+05 / 40
p0 −2.597 ± 1.136e−05
−2.575
−2.58
−2.585
−2.59
−2.595
−2.6
−2.605
−2.61
−2.615
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −95.17
Std Dev 0
200
100
0
−100
−200


pull1D
Entries 41
Mean 0.3873
Std Dev 4.964
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 2.599e+04 / 40
p0 0.00702 ± 8.03e−06
0.016
0.014
0.012
0.01
0.008
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
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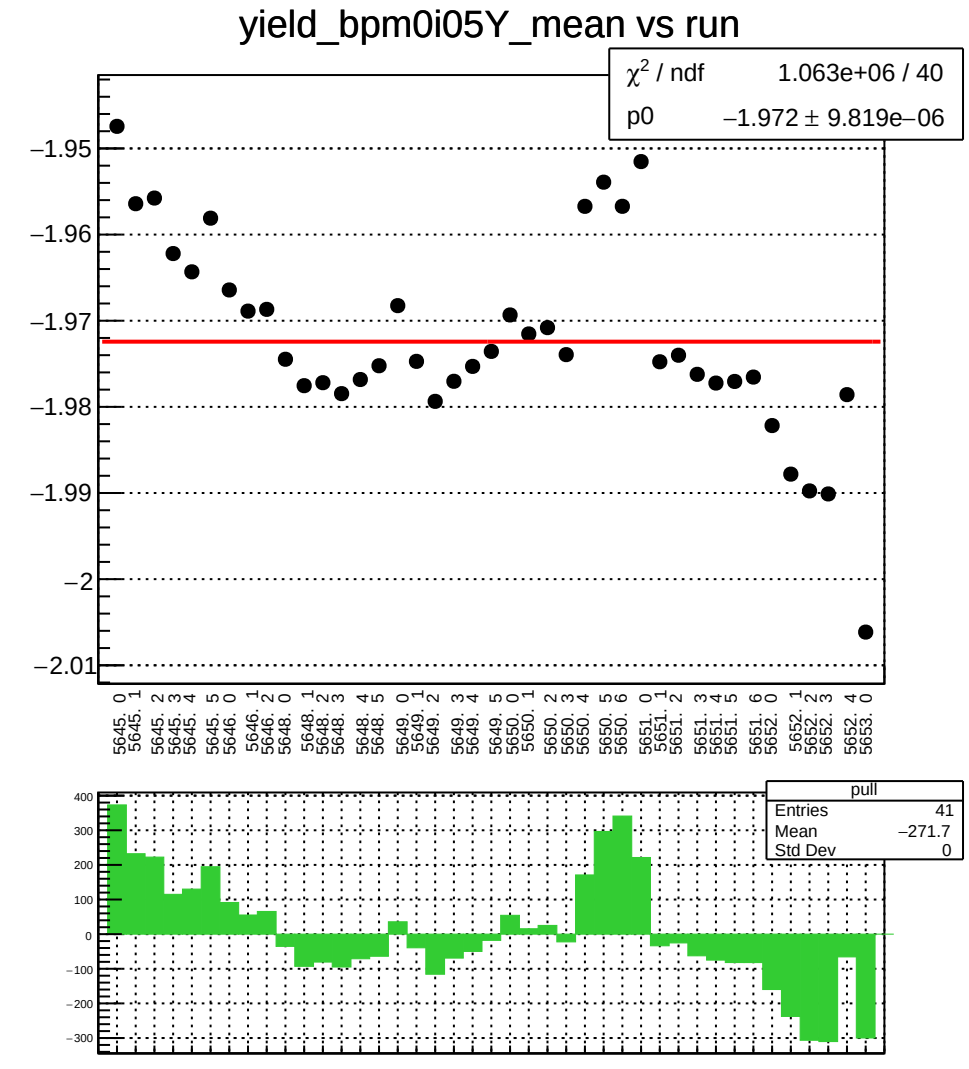
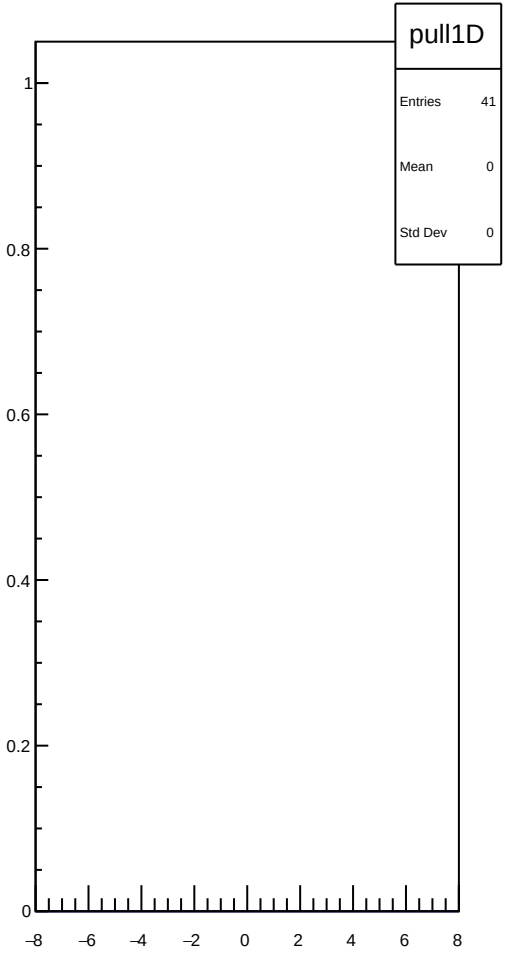
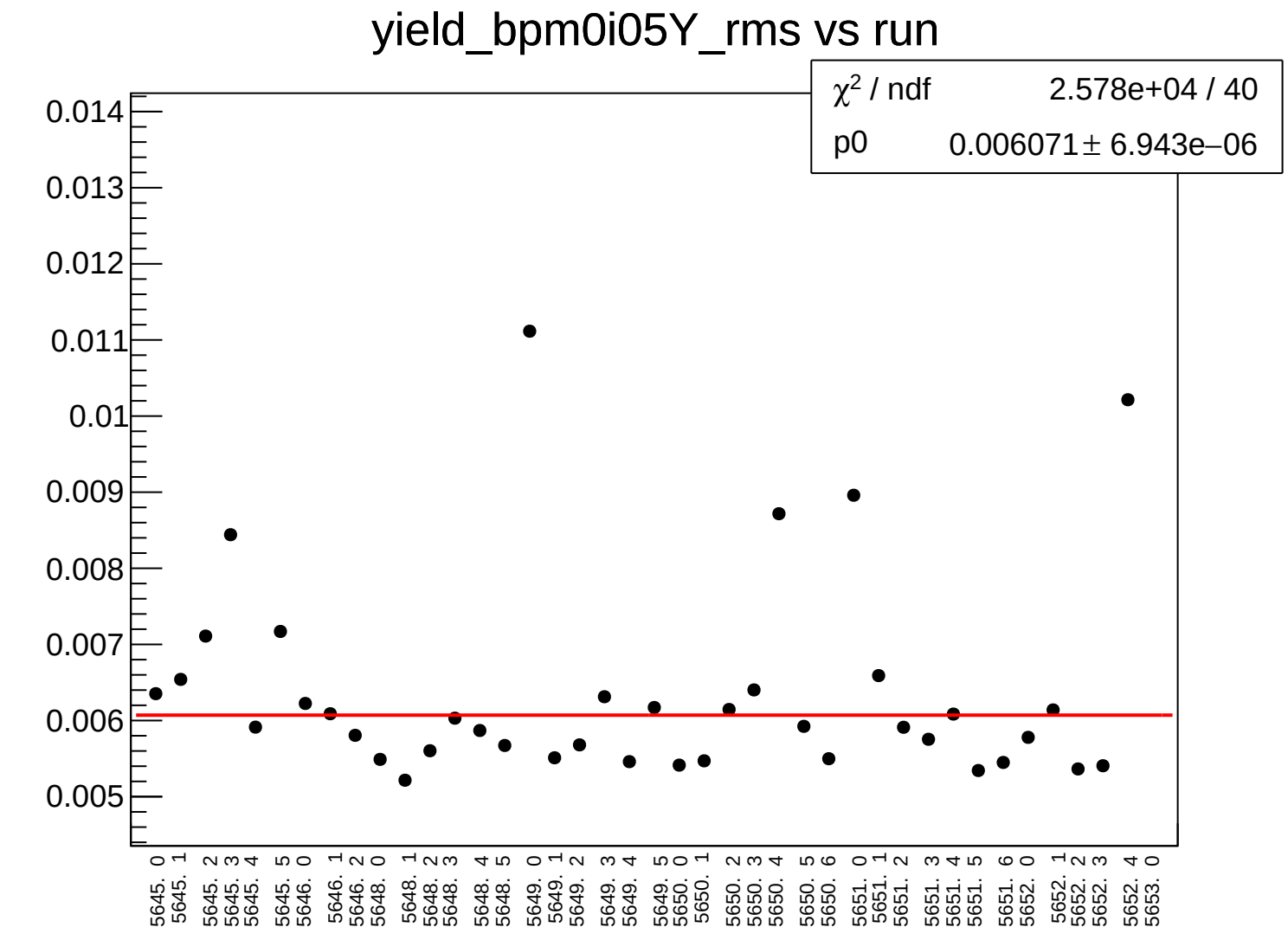
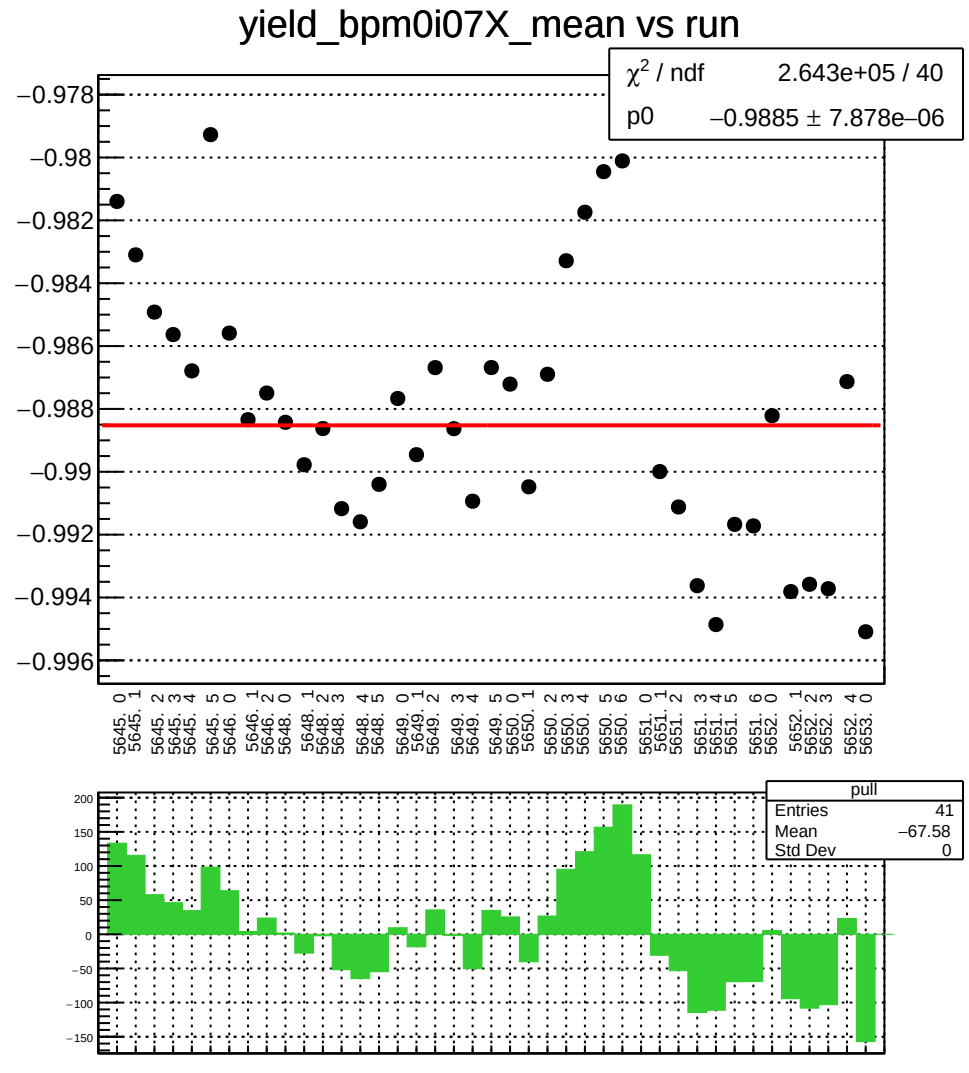
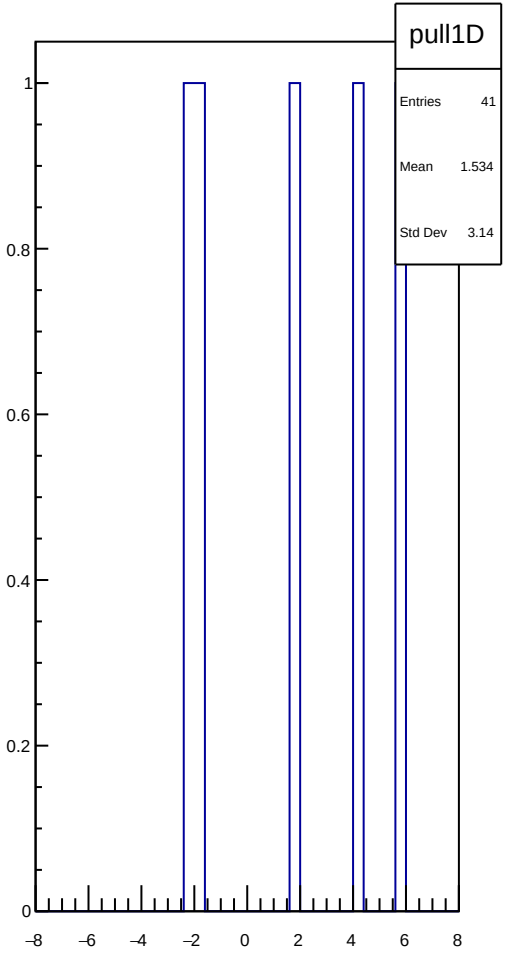
5652. 2
5652. 3
5652. 4
5653. 0

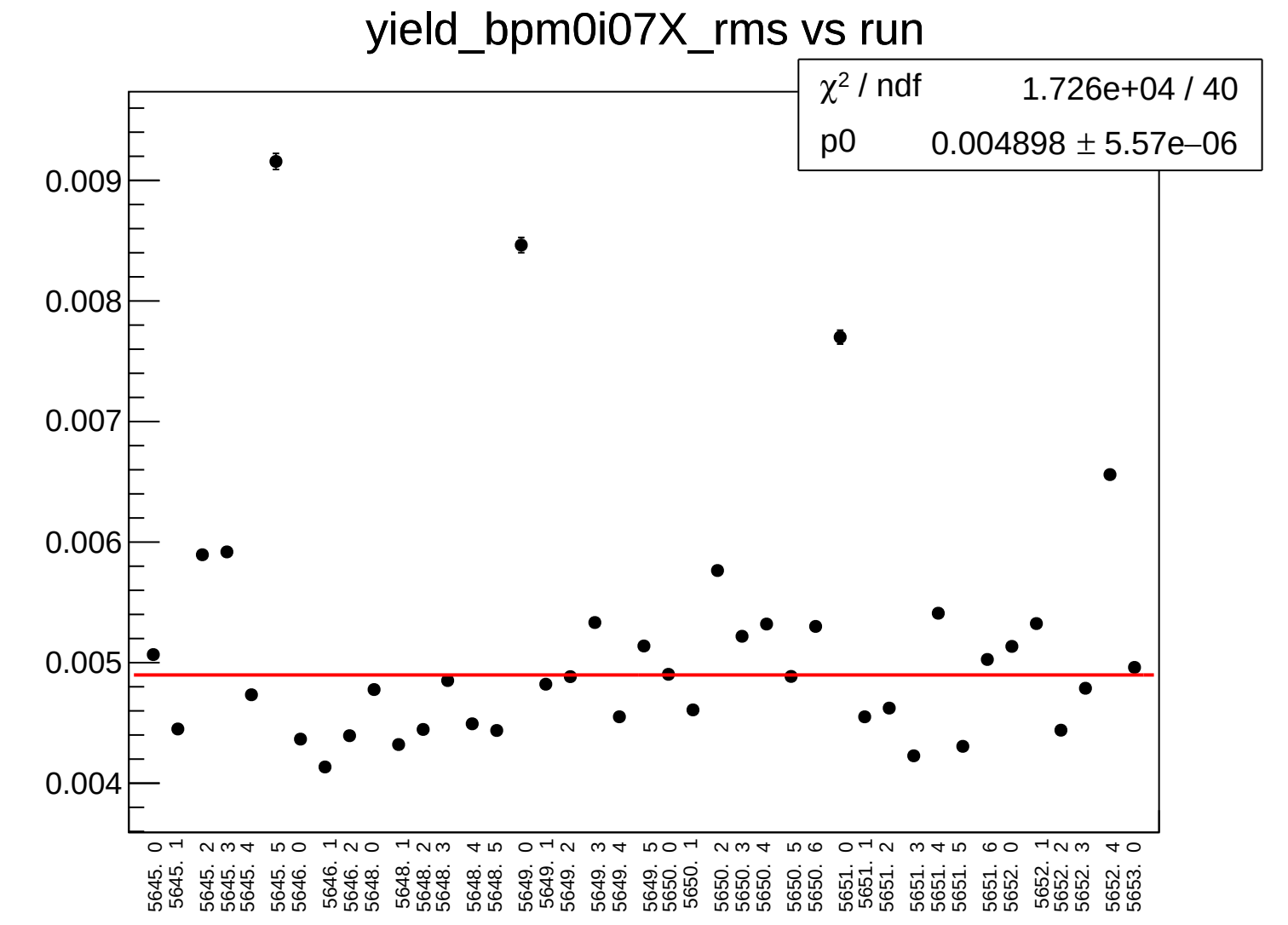

yield_bpm0i05Y_mean vs run
χ² / ndf 1.063e+06 / 40
p0 −1.972 ± 9.819e−06
−1.95
−1.96
−1.97
−1.98
−1.99
−2
−2.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −271.7
Std Dev 0
400
300
200
100
0
−100
−200
−300

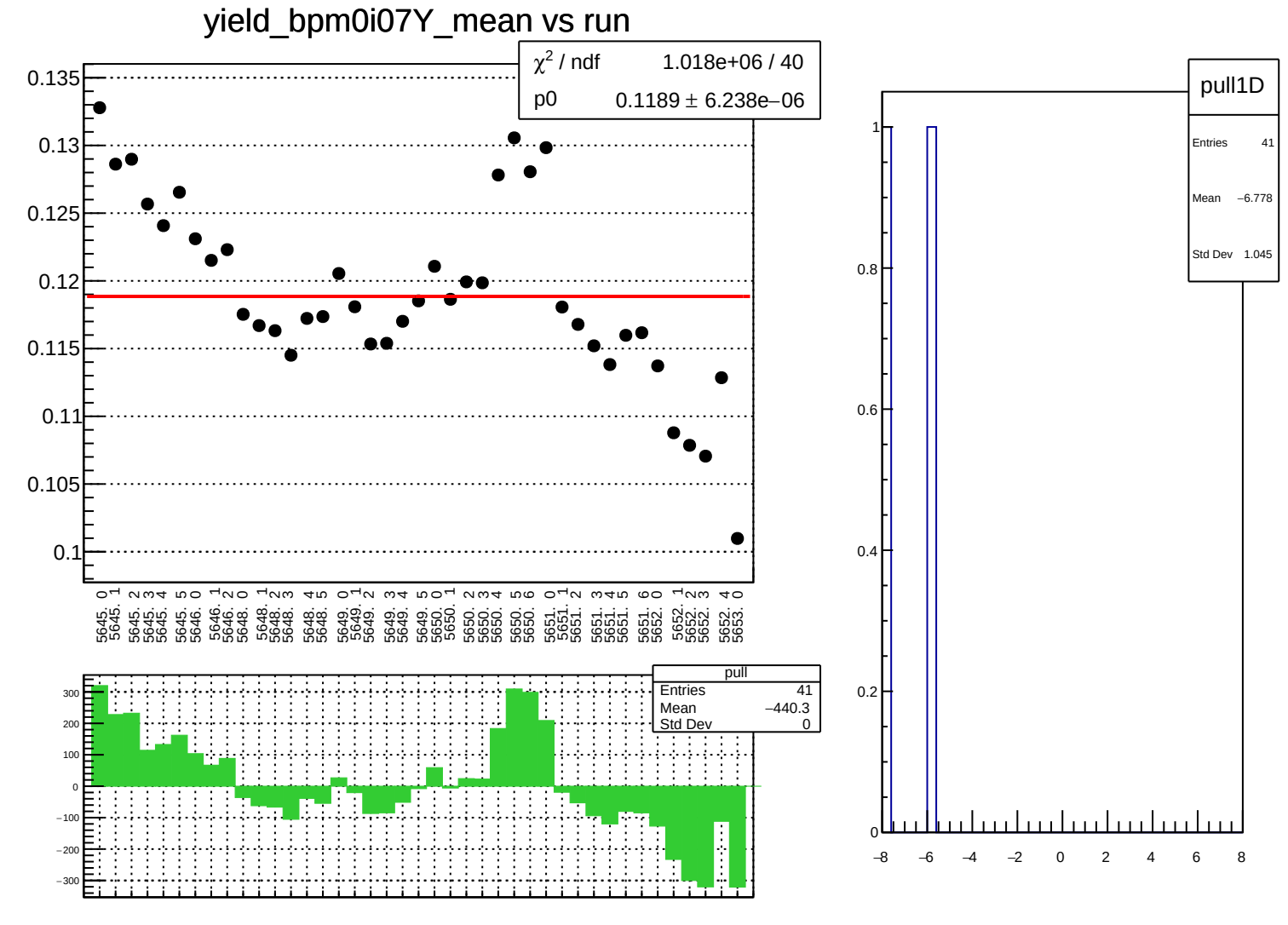

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

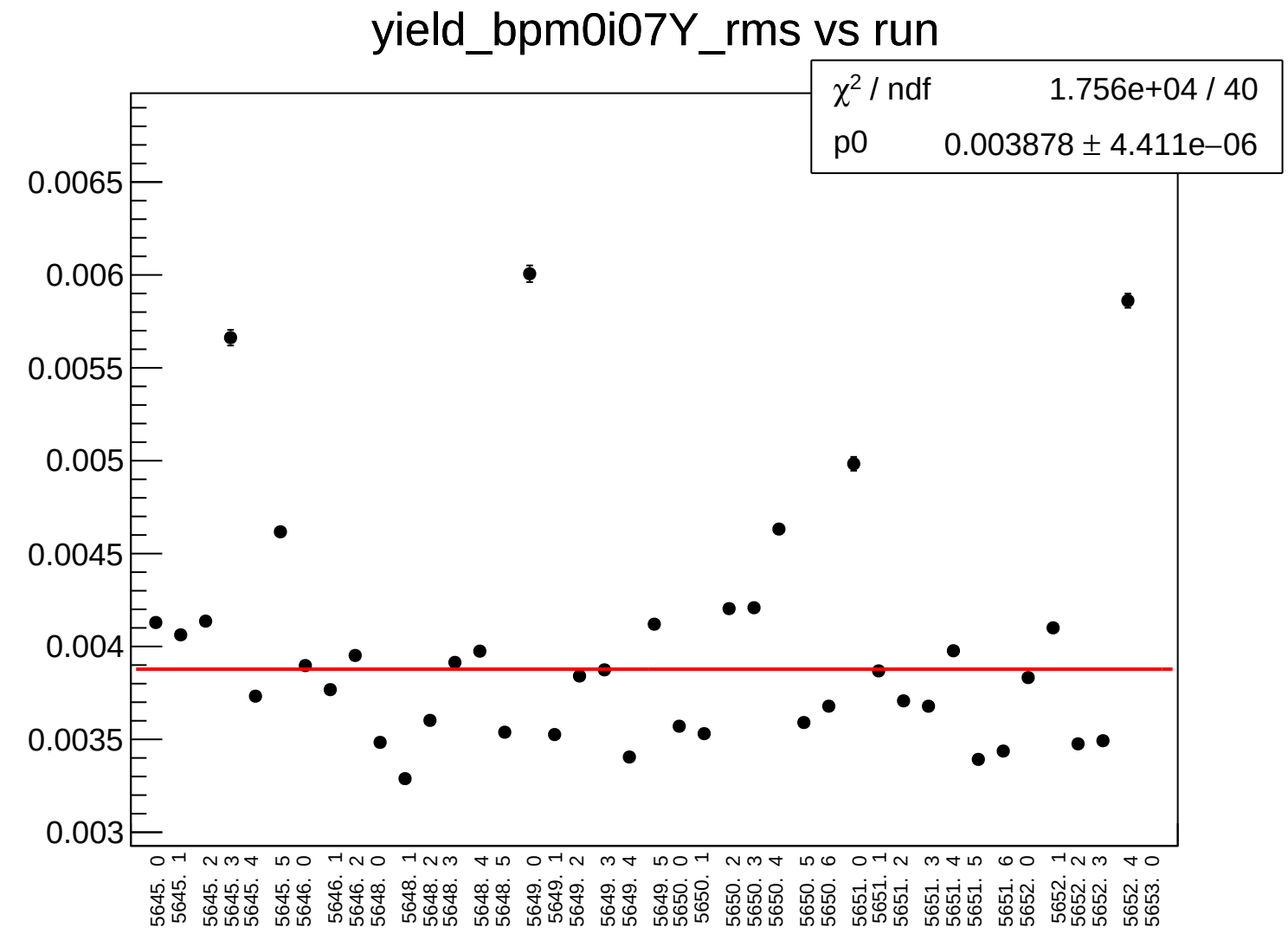

yield_bpm0i05Y_rms vs run
χ² / ndf 2.578e+04 / 40
p0 0.006071 ± 6.943e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

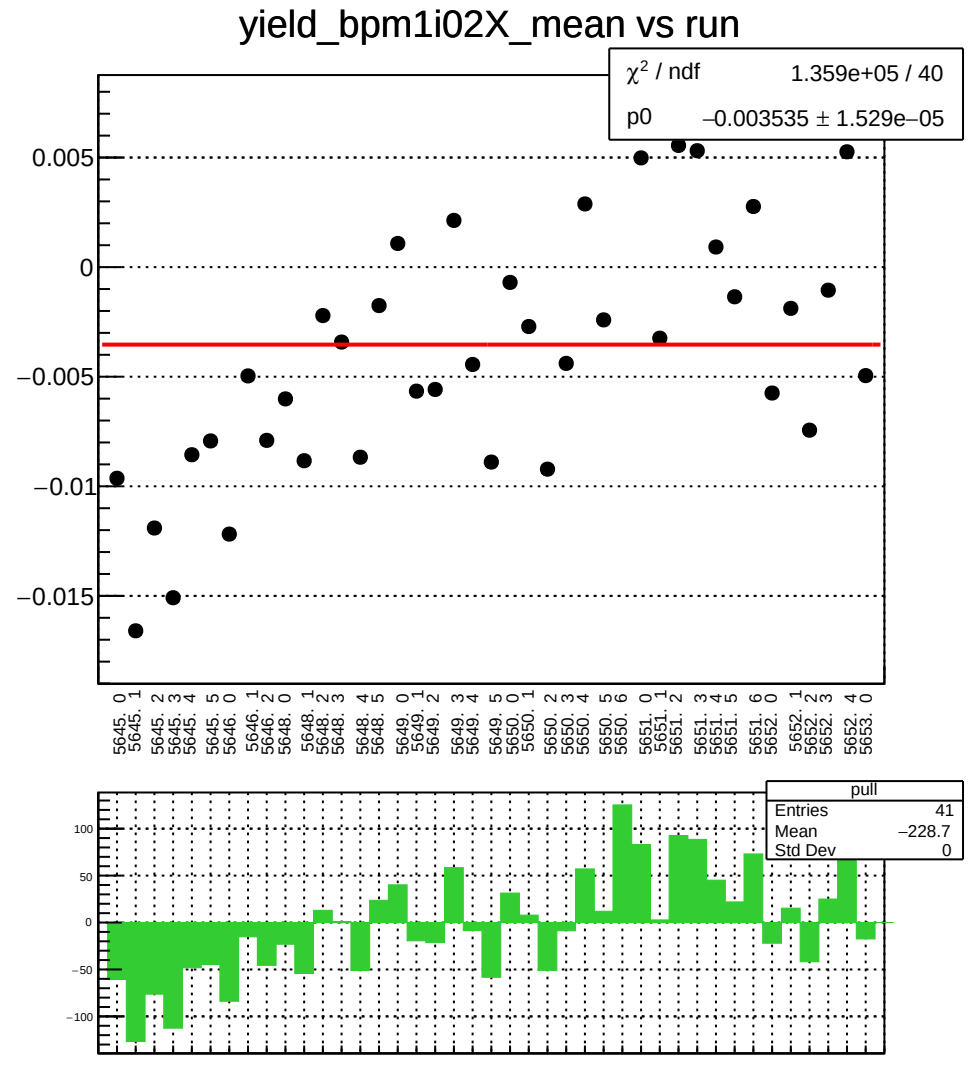

yield_bpm0i07X_mean vs run
χ² / ndf 2.643e+05 / 40
p0 −0.9885 ± 7.878e−06
−0.978
−0.98
−0.982
−0.984
−0.986
−0.988
−0.99
−0.992
−0.994
−0.996
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.58
Std Dev 0
200
150
100
50
0
−50
−100
−150

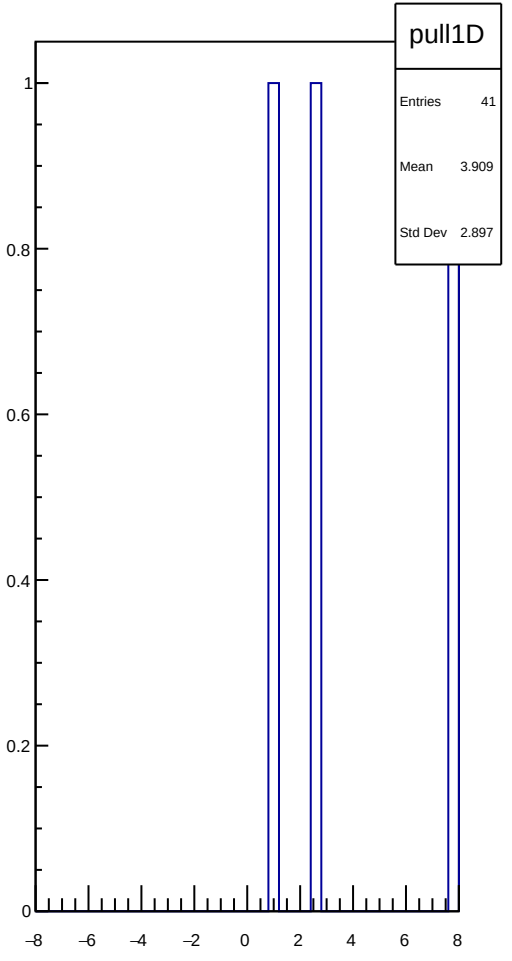

pull1D
Entries 41
Mean 1.534
Std Dev 3.14
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

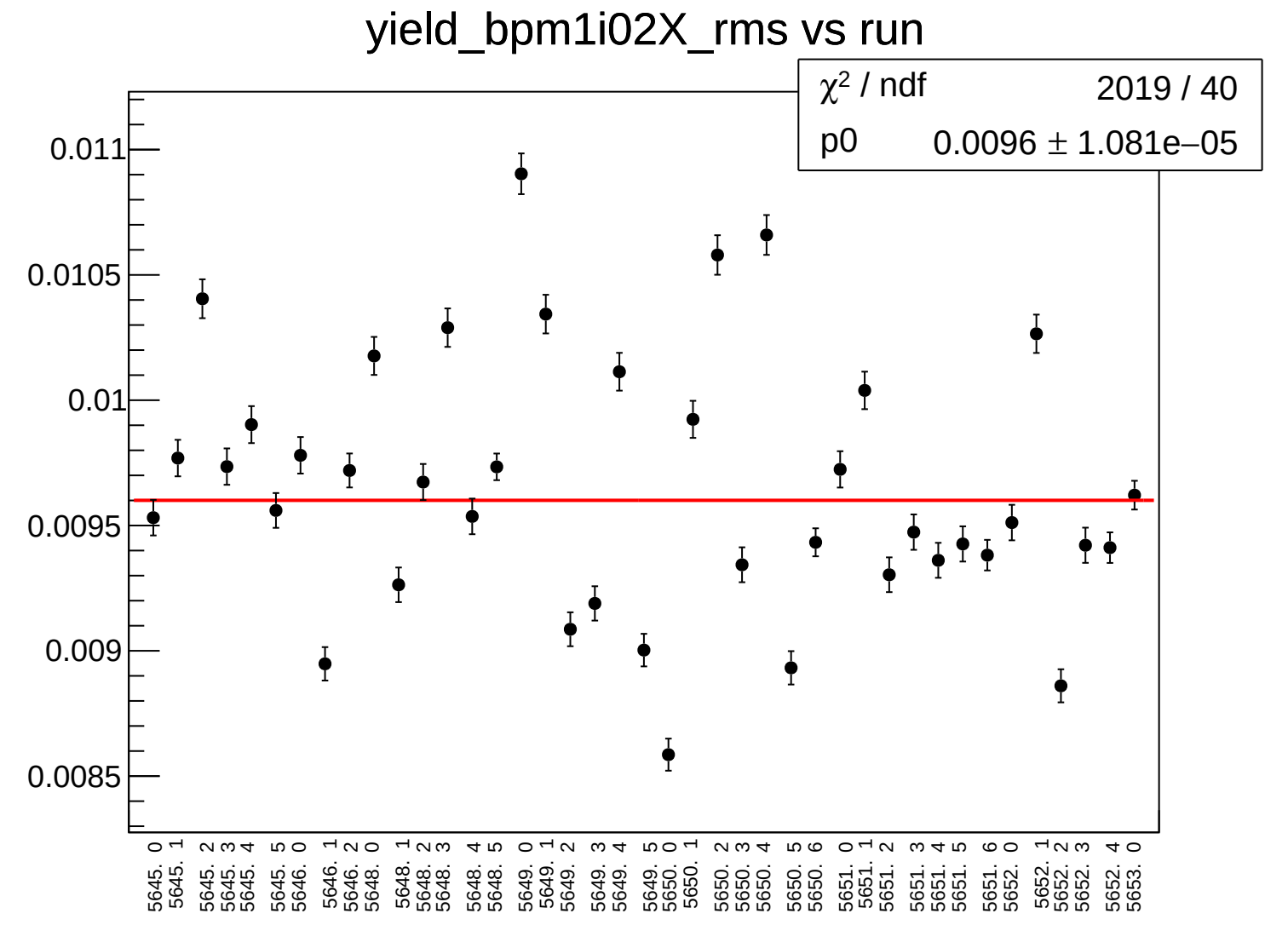

yield_bpm0i07X_rms vs run
χ² / ndf 1.726e+04 / 40
p0 0.004898 ± 5.57e–06
0.009
0.008
0.007
0.006
0.005
0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

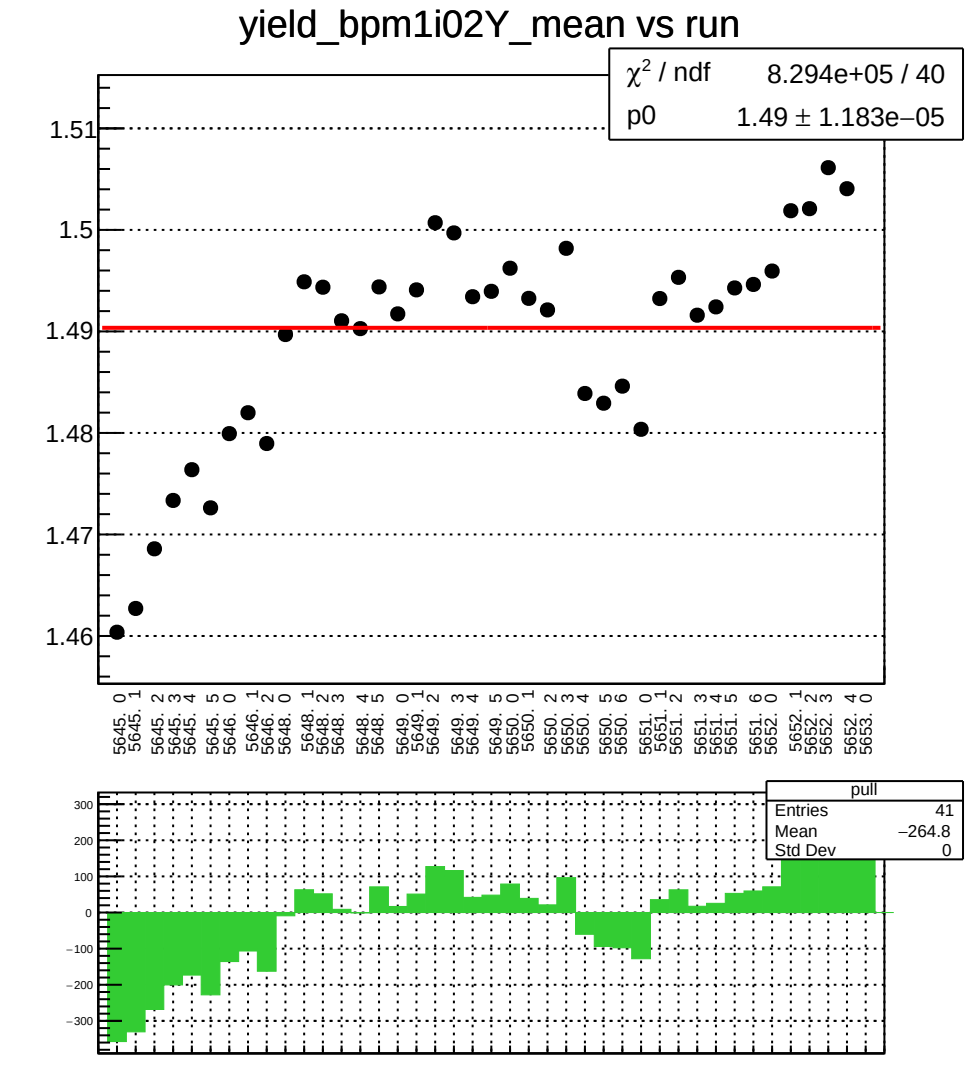

yield_bpm0i07Y_mean vs run
χ² / ndf 1.018e+06 / 40
p0 0.1189 ± 6.238e−06
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −440.3
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 41
Mean −6.778
Std Dev 1.045
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

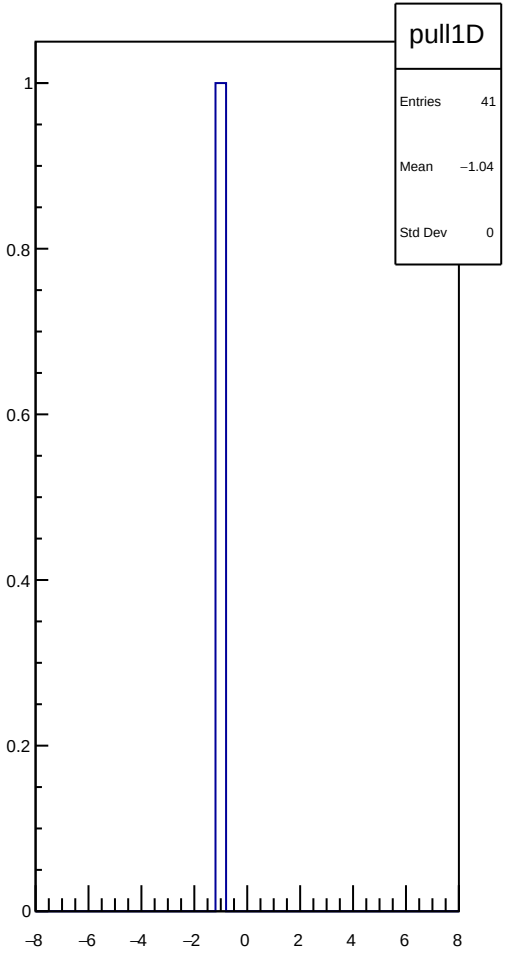

yield_bpm0i07Y_rms vs run
χ² / ndf 1.756e+04 / 40
p0 0.003878 ± 4.411e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

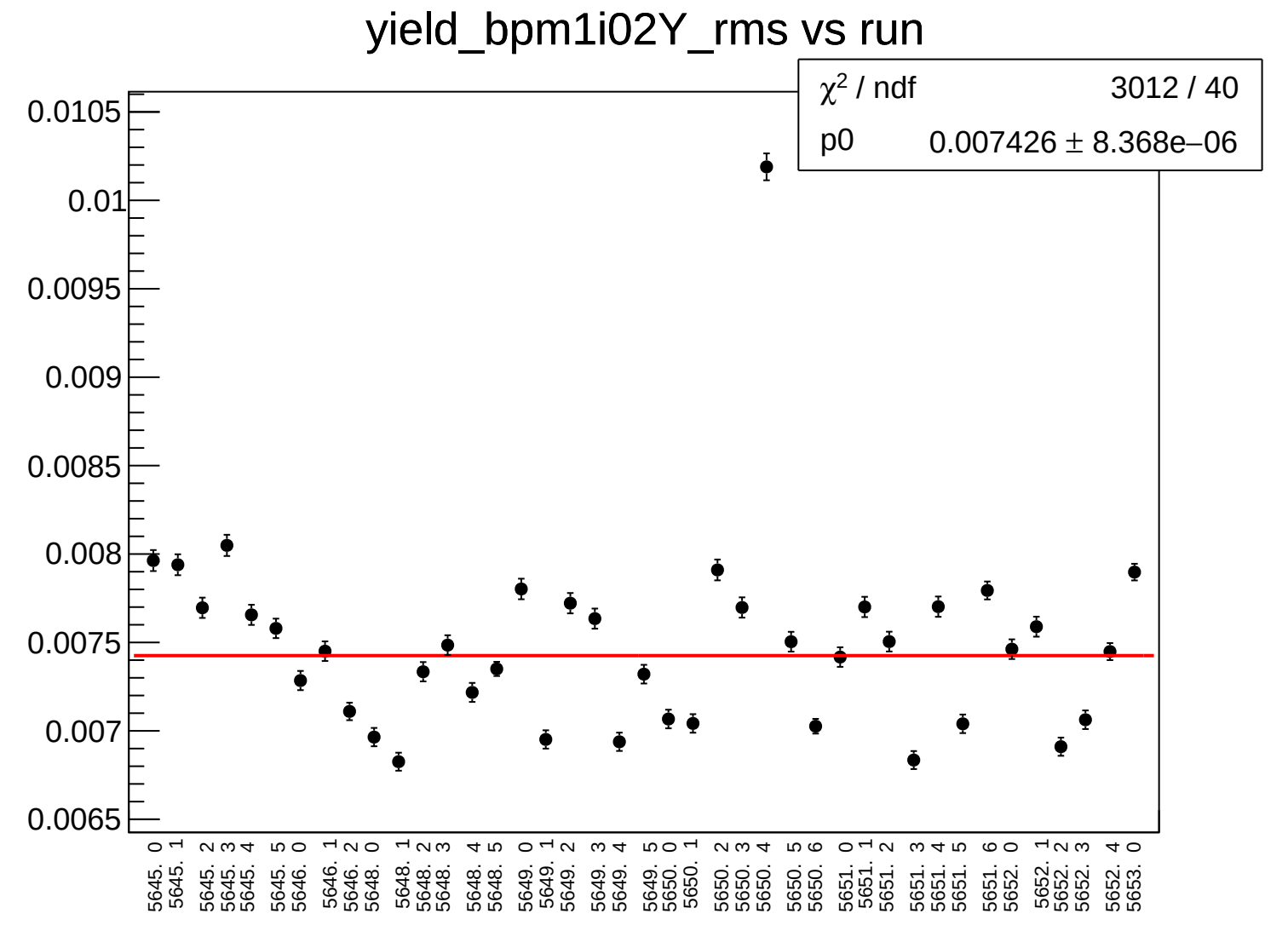

yield_bpm1i02X_mean vs run
χ² / ndf 1.359e+05 / 40
p0 −0.003535 ± 1.529e−05
0.005
0
−0.005
−0.01
−0.015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −228.7
Std Dev 0
100
50
0
−50
−100

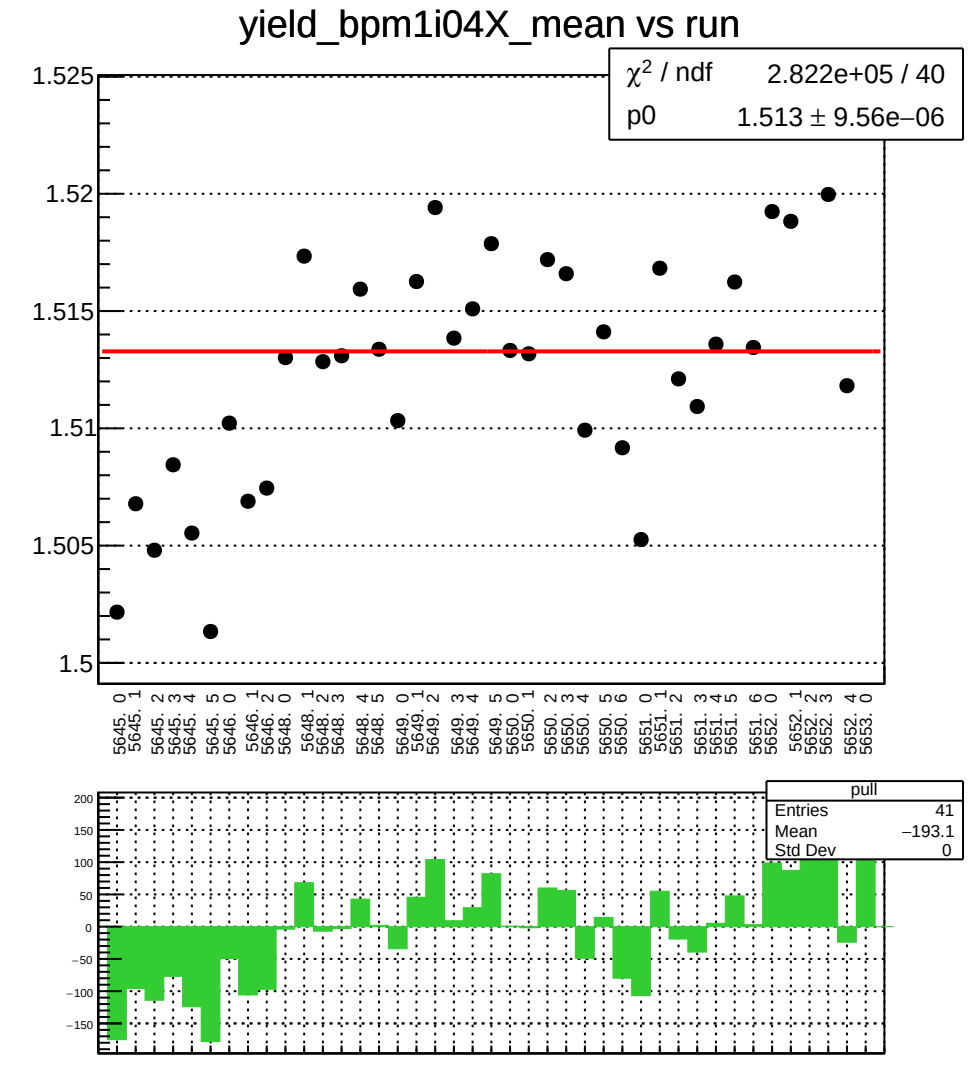

pull1D
Entries 41
Mean 3.909
Std Dev 2.897
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

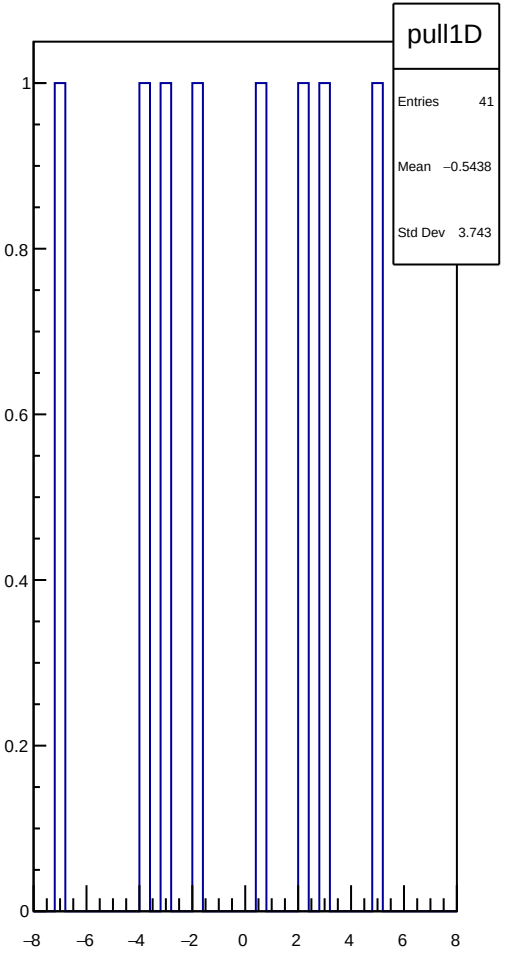

yield_bpm1i02X_rms vs run
χ² / ndf 2019 / 40
p0 0.0096 ± 1.081e−05
0.011
0.0105
0.01
0.0095
0.009
0.0085
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

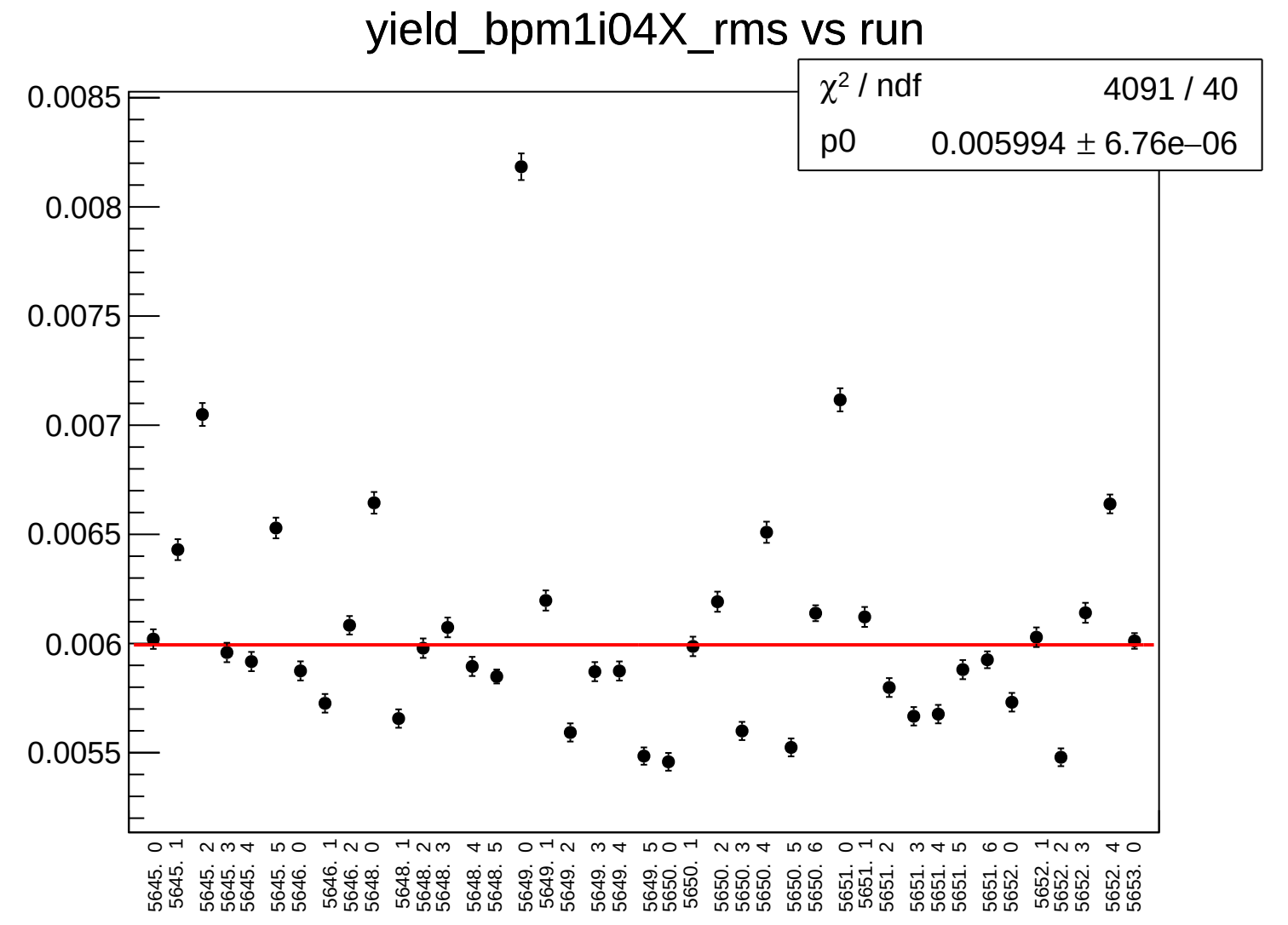

yield_bpm1i02Y_mean vs run
χ² / ndf 8.294e+05 / 40
p0 1.49 ± 1.183e−05
1.51
1.5
1.49
1.48
1.47
1.46
pull
Entries 41
Mean −264.8
Std Dev 0
300
200
100
0
−100
−200
−300

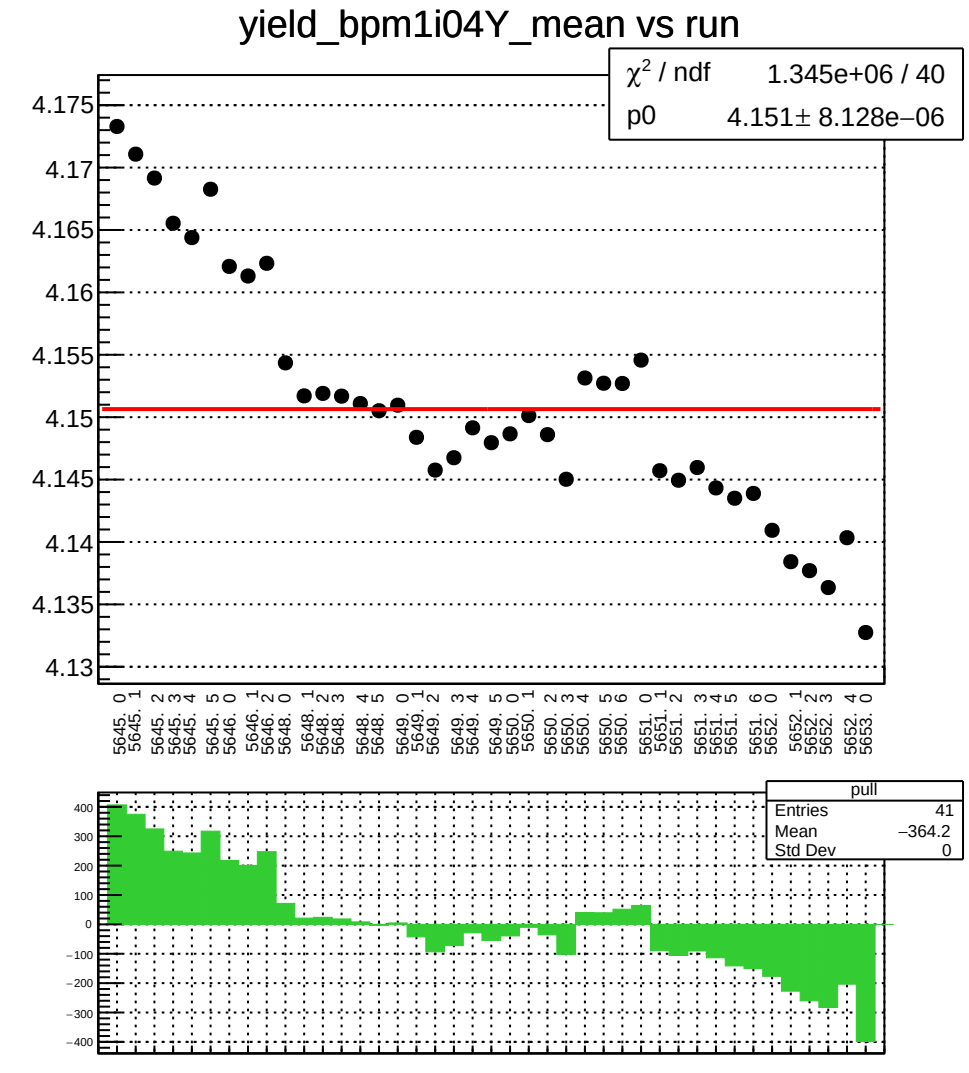

pull1D
Entries 41
Mean −1.04
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

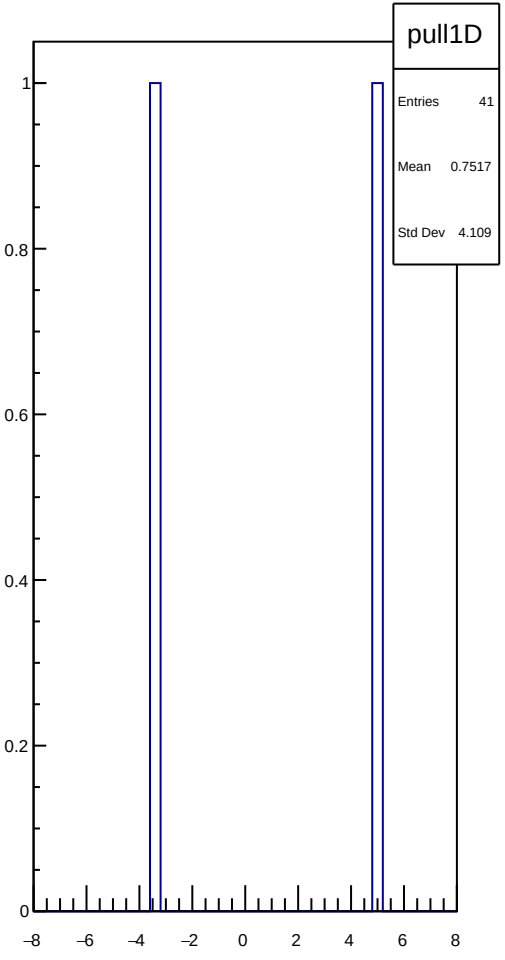

yield_bpm1i02Y_rms vs run
χ² / ndf 3012 / 40
p0 0.007426 ± 8.368e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

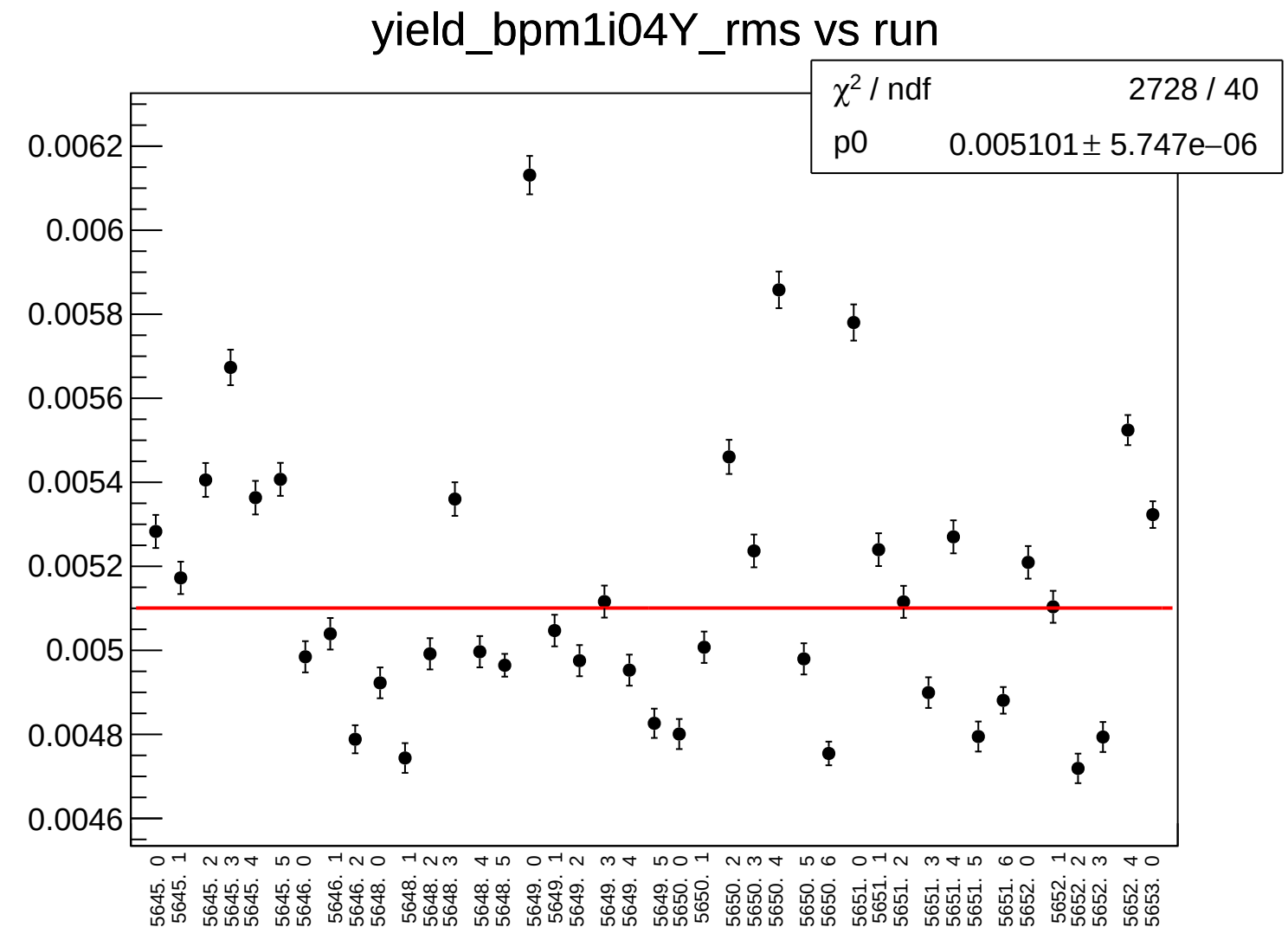

yield_bpm1i04X_mean vs run
χ² / ndf 2.822e+05 / 40
p0 1.513 ± 9.56e−06
1.525
1.52
1.515
1.51
1.505
1.5
pull
Entries 41
Mean −193.1
Std Dev 0
200
150
100
50
0
−50
−100
−150

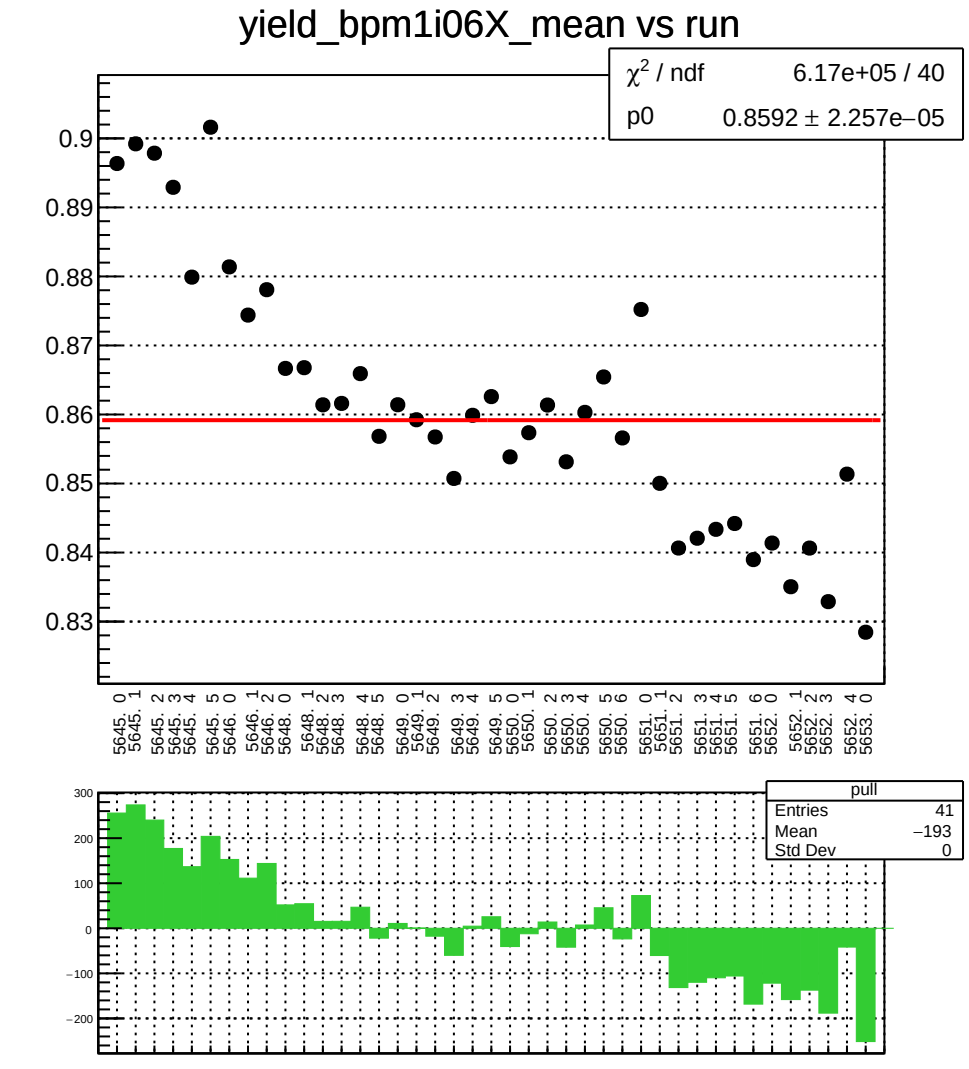

pull1D
Entries 41
Mean −0.5438
Std Dev 3.743
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

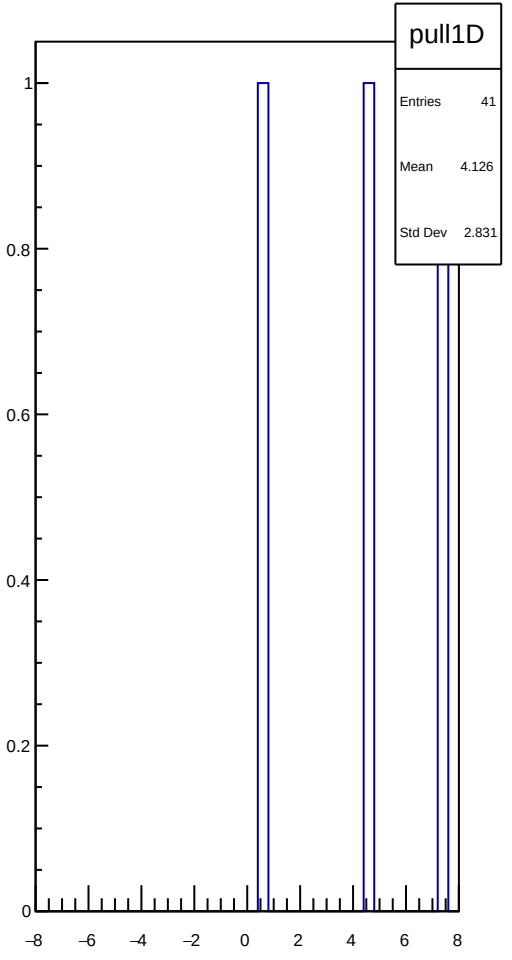

yield_bpm1i04X_rms vs run
χ² / ndf 4091 / 40
p0 0.005994 ± 6.76e–06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

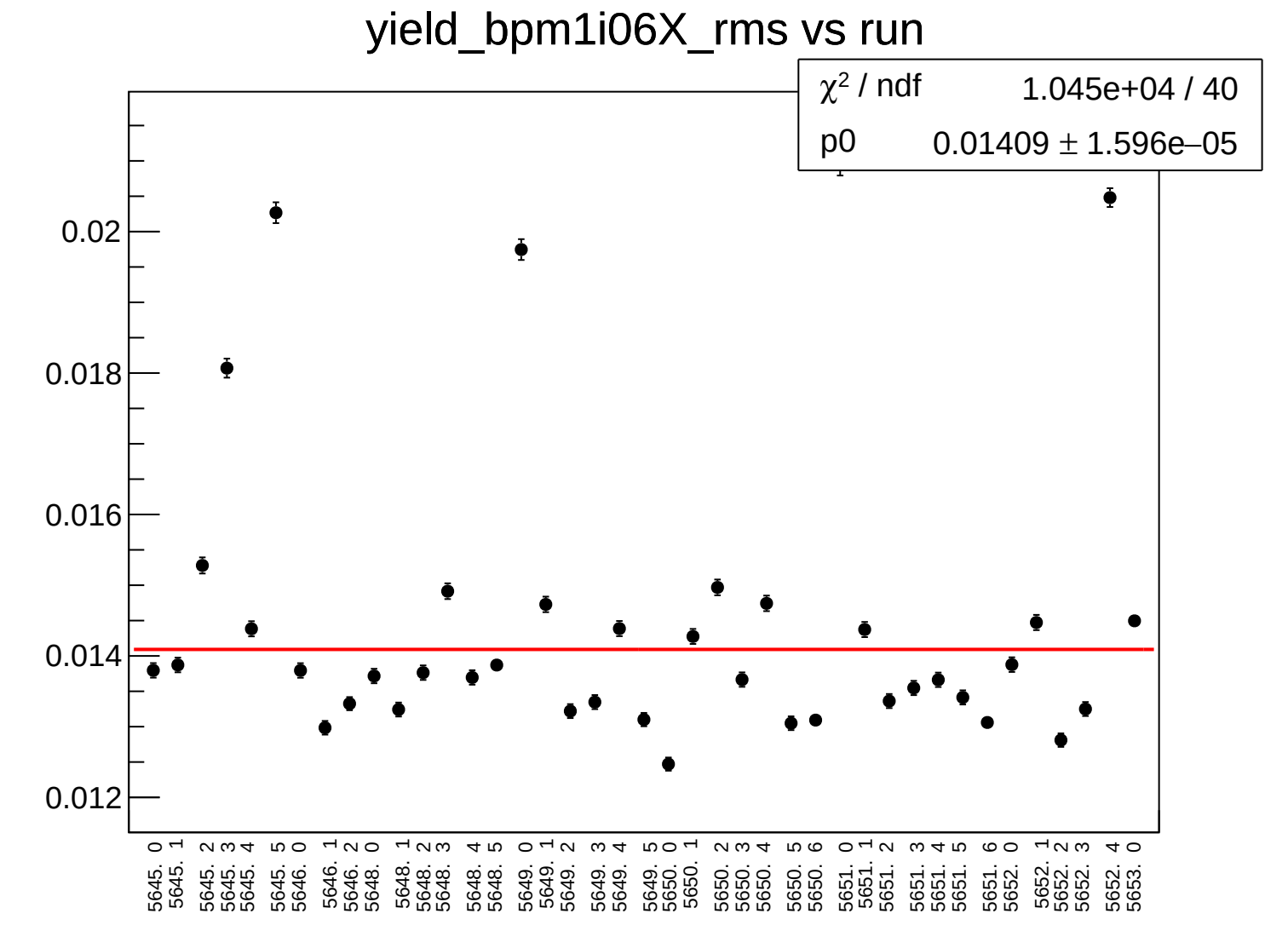

yield_bpm1i04Y_mean vs run
χ² / ndf 1.345e+06 / 40
p0 4.151± 8.128e−06
4.175
4.17
4.165
4.16
4.155
4.15
4.145
4.14
4.135
4.13
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −364.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

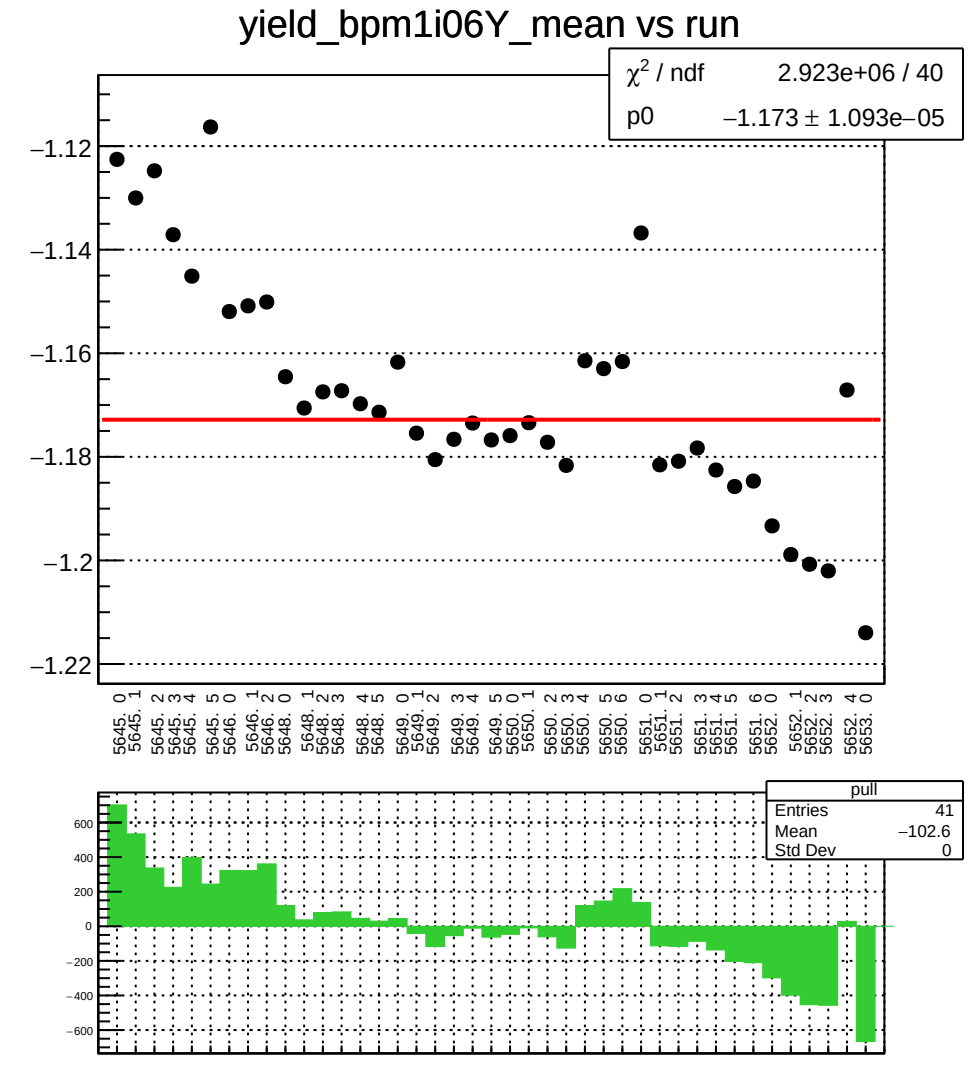

pull1D
Entries 41
Mean 0.7517
Std Dev 4.109
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

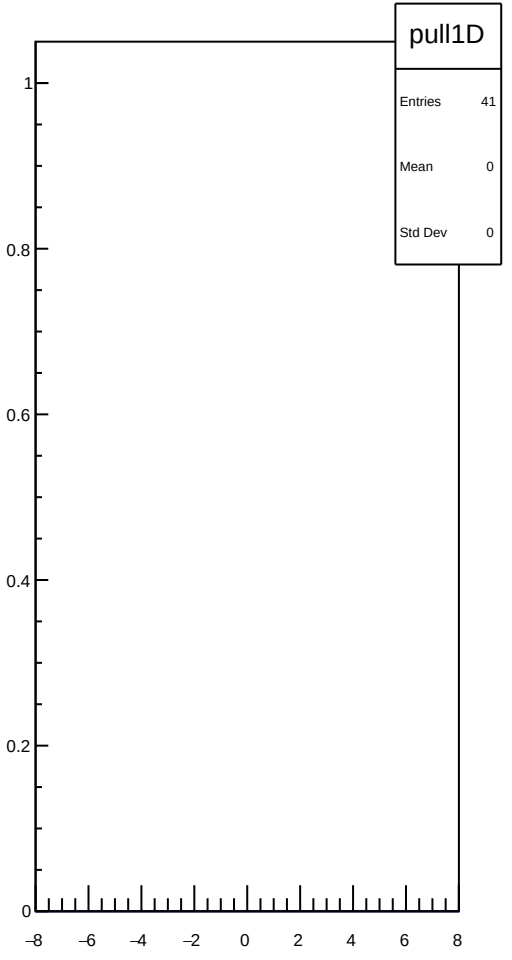

yield_bpm1i04Y_rms vs run
χ² / ndf 2728 / 40
p0 0.005101 ± 5.747e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

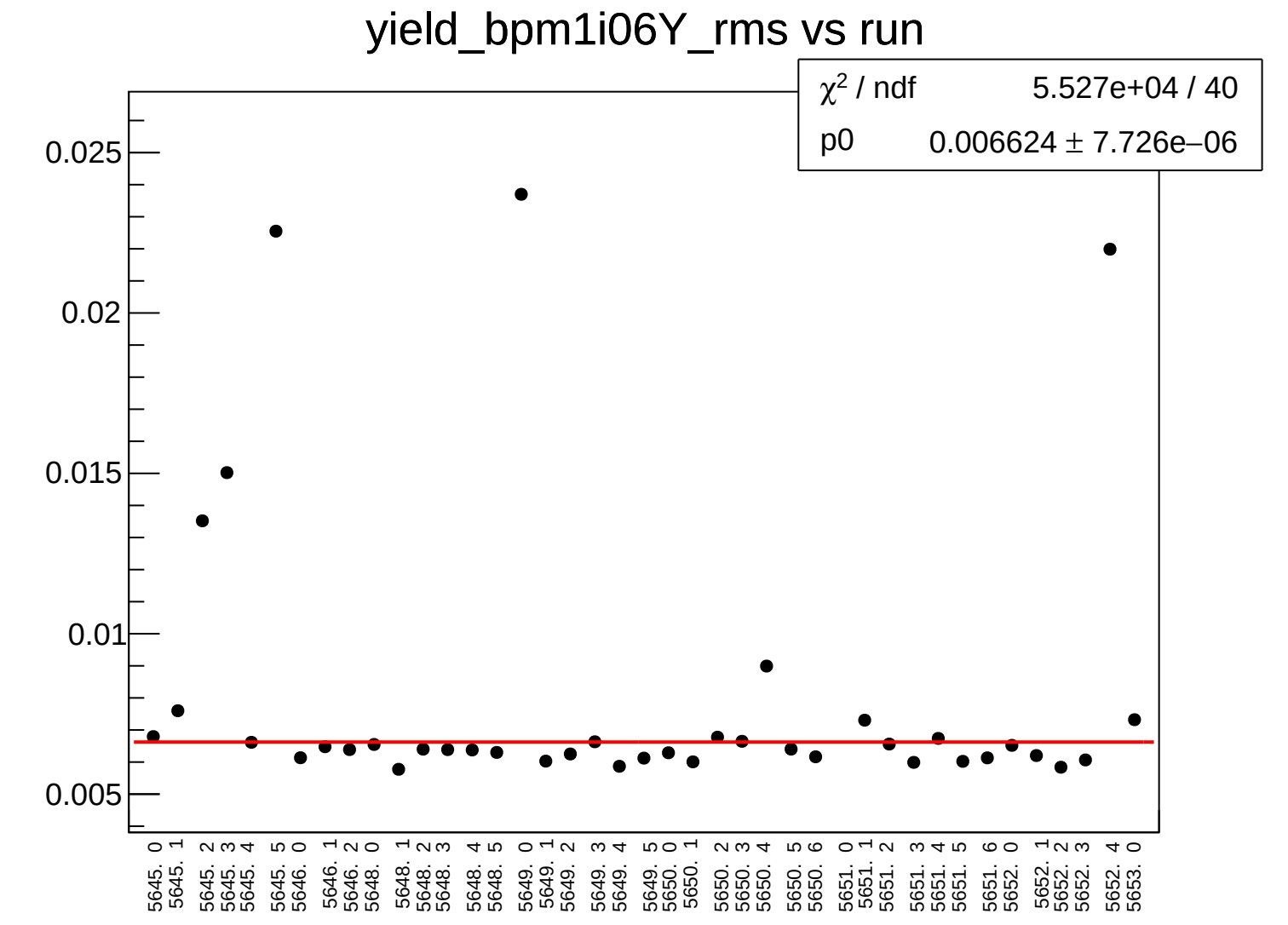

yield_bpm1i06X_mean vs run
χ² / ndf 6.17e+05 / 40
p0 0.8592 ± 2.257e−05
0.9
0.89
0.88
0.87
0.86
0.85
0.84
0.83
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −193
Std Dev 0
300
200
100
0
−100
−200

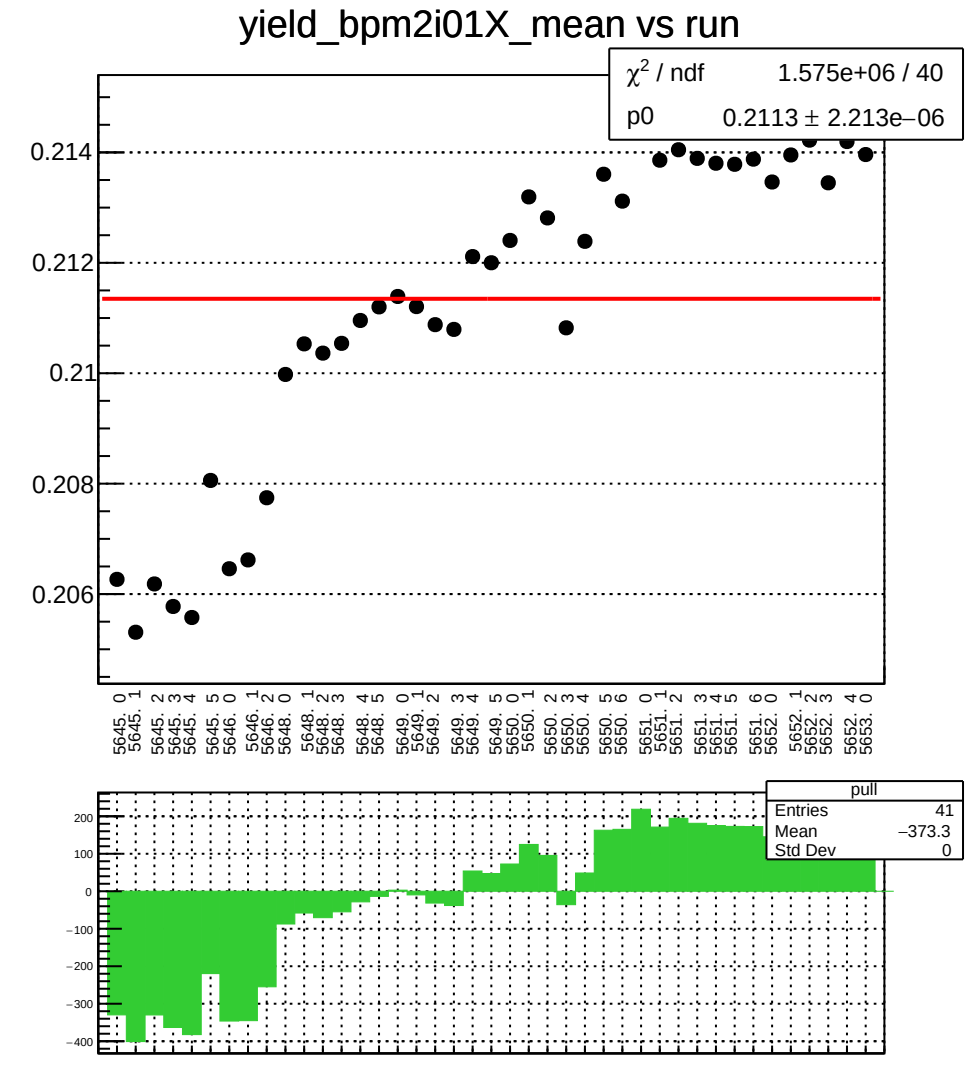

pull1D
Entries 41
Mean 4.126
Std Dev 2.831
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

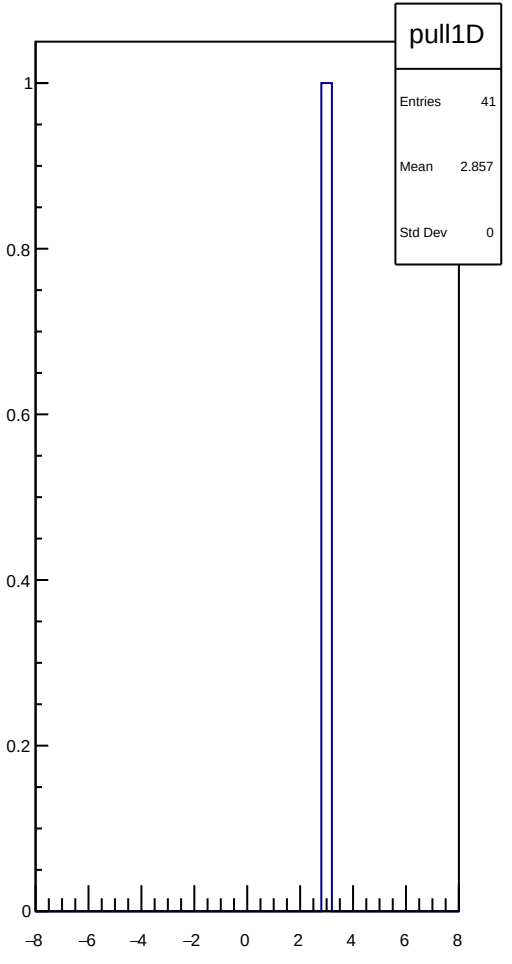

yield_bpm1i06X_rms vs run
χ² / ndf 1.045e+04 / 40
p0 0.01409 ± 1.596e–05
0.02
0.018
0.016
0.014
0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

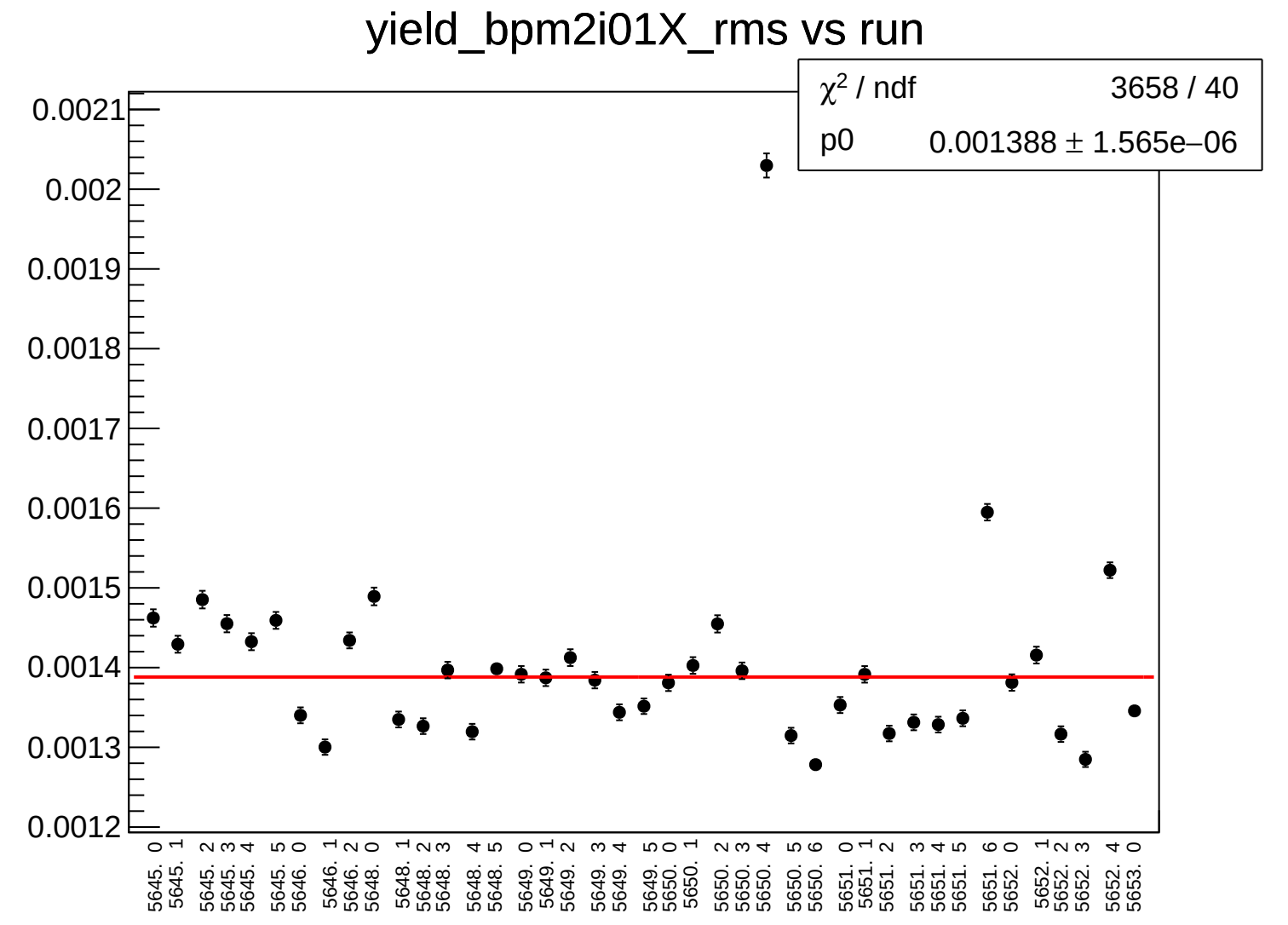

yield_bpm1i06Y_mean vs run
χ² / ndf 2.923e+06 / 40
p0 −1.173 ± 1.093e−05
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −102.6
Std Dev 0
600
400
200
0
−200
−400
−600

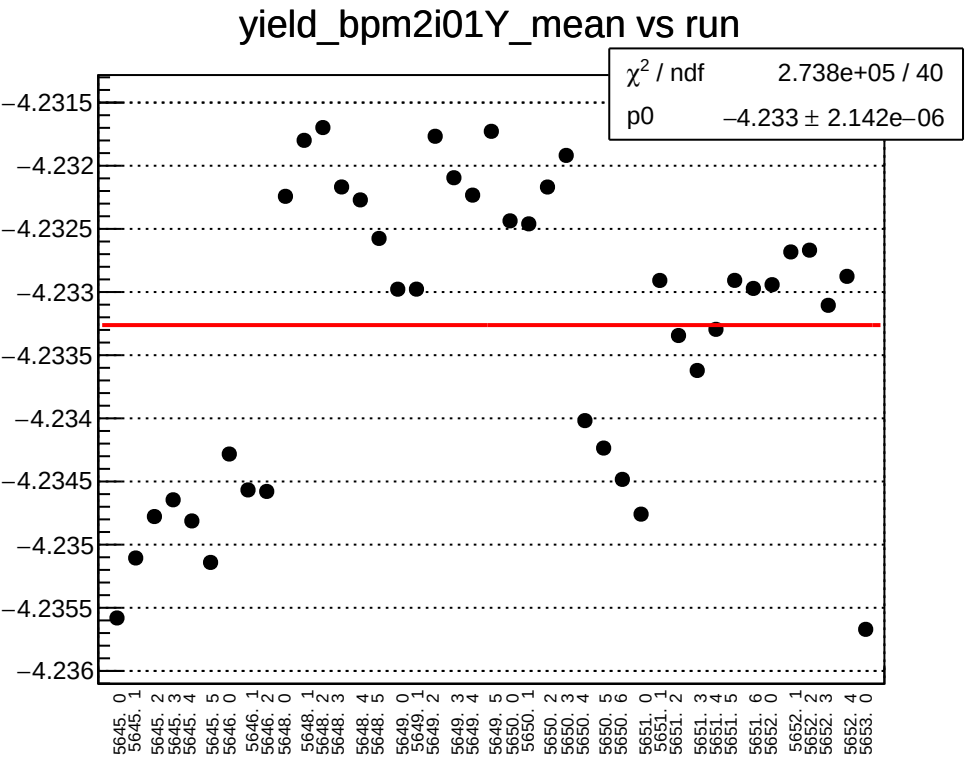

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

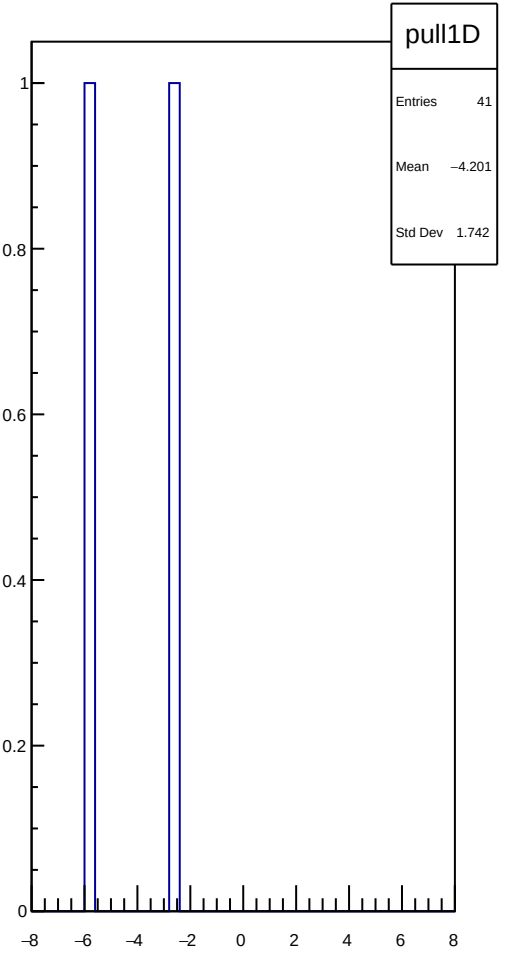

yield_bpm1i06Y_rms vs run
χ² / ndf 5.527e+04 / 40
p0 0.006624 ± 7.726e−06
0.025
0.02
0.015
0.01
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

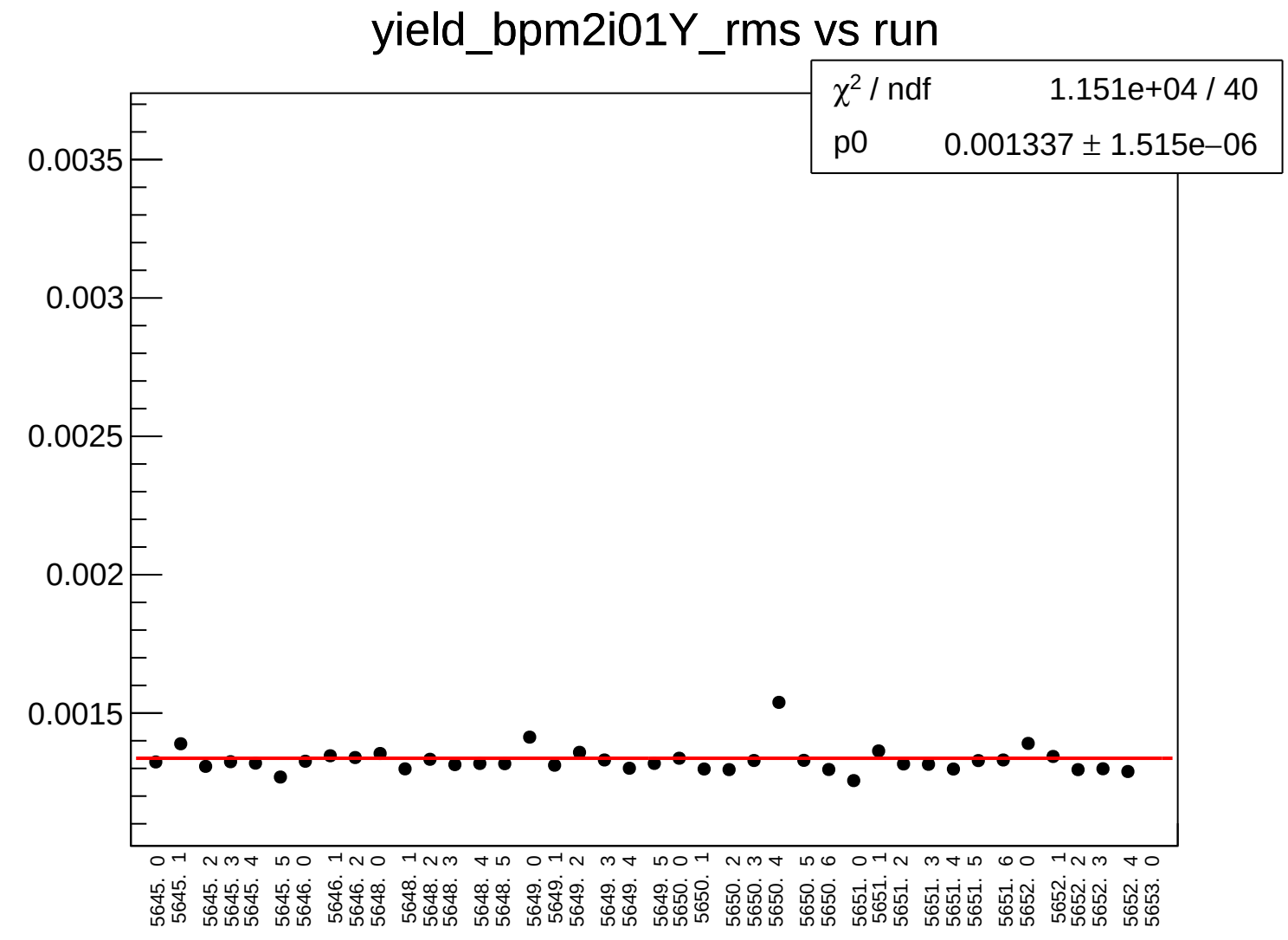

yield_bpm2i01X_mean vs run
χ² / ndf 1.575e+06 / 40
p0 0.2113 ± 2.213e−06
0.214
0.212
0.21
0.208
0.206
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −373.3
Std Dev 0
200
100
0
−100
−200
−300
−400

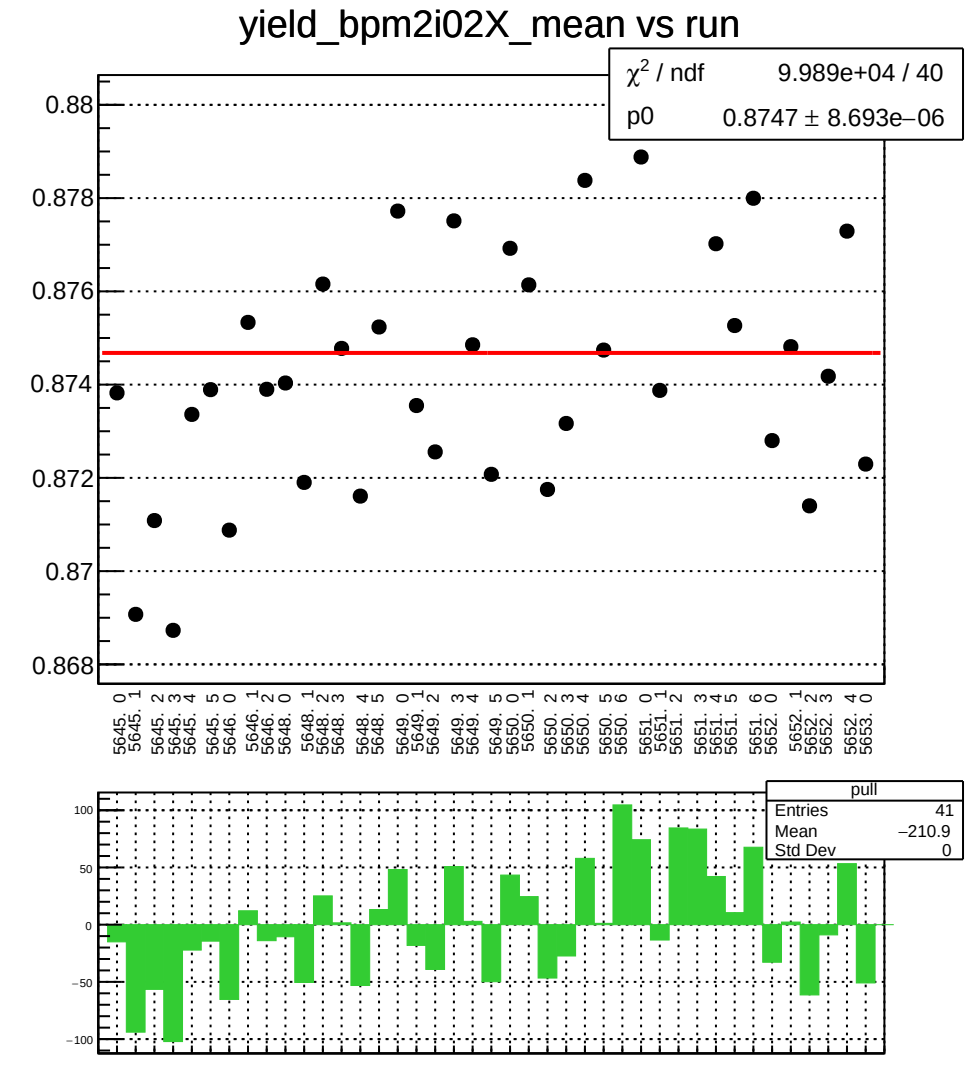

pull1D
Entries 41
Mean 2.857
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

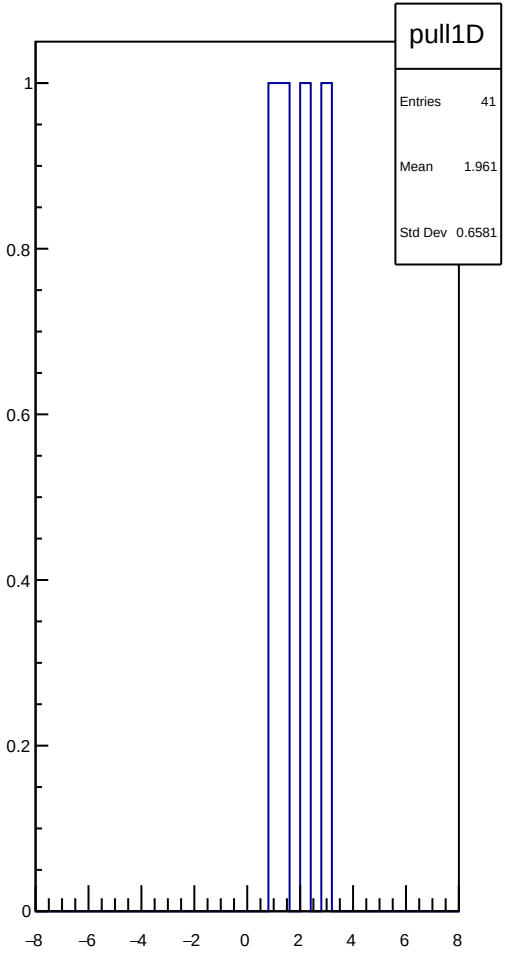

yield_bpm2i01X_rms vs run
χ² / ndf 3658 / 40
p0 0.001388 ± 1.565e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

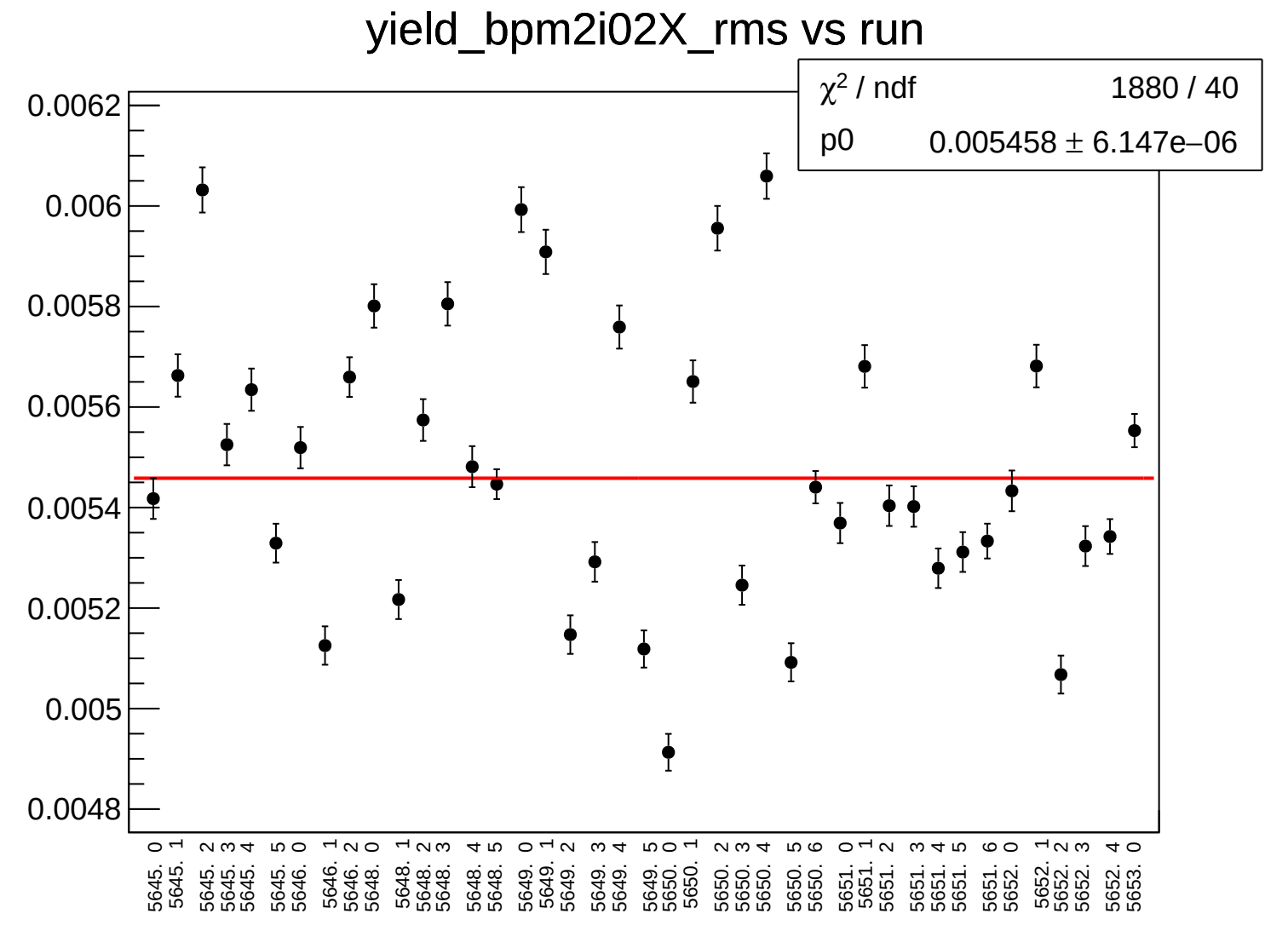

yield_bpm2i01Y_mean vs run
χ² / ndf 2.738e+05 / 40
p0 −4.233 ± 2.142e−06
−4.2315
−4.232
−4.2325
−4.233
−4.2335
−4.234
−4.2345
−4.235
−4.2355
−4.236
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −277.7
Std Dev 0
100
50
0
−50
−100
−150

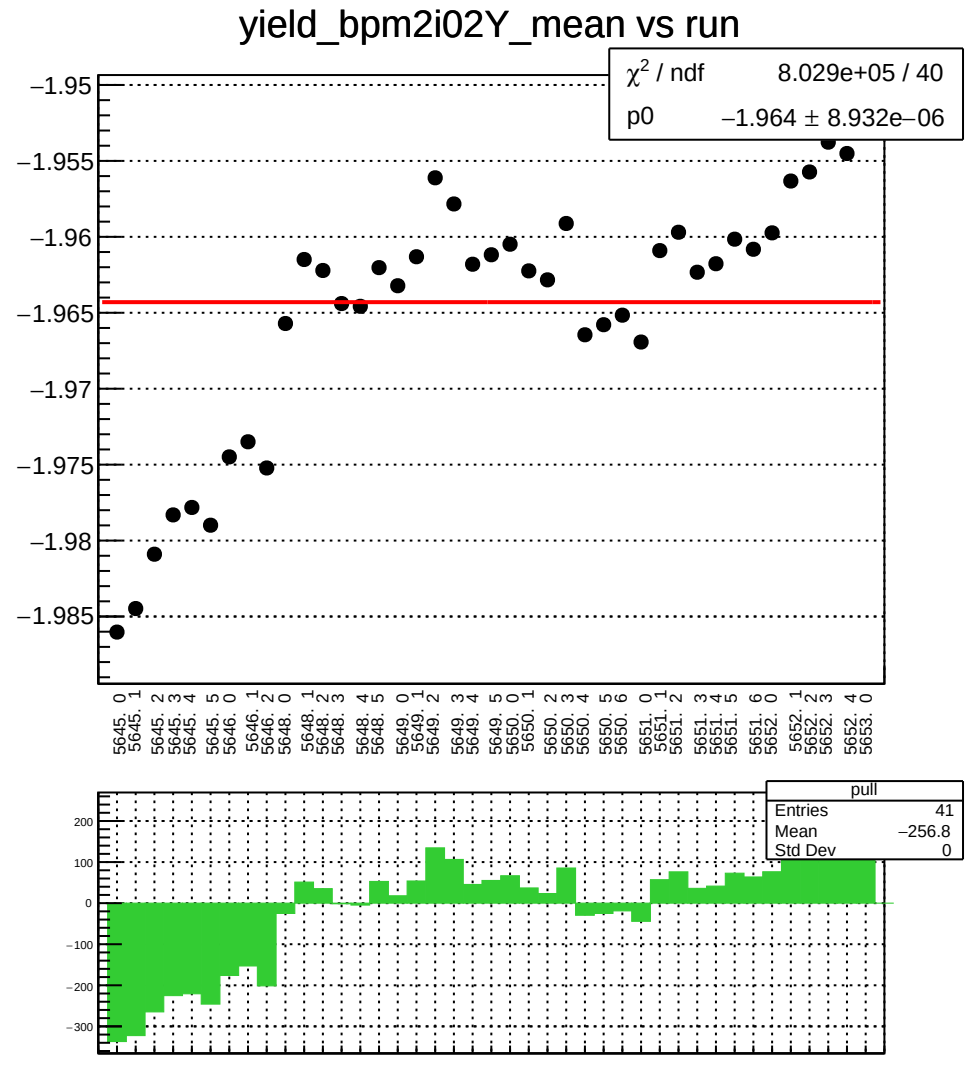

pull1D
Entries 41
Mean −4.201
Std Dev 1.742
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

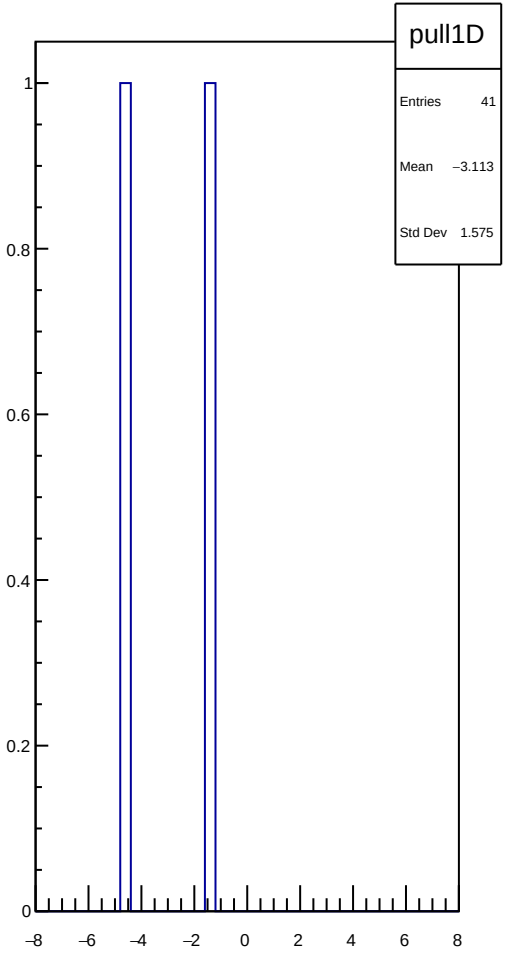

yield_bpm2i01Y_rms vs run
χ² / ndf 1.151e+04 / 40
p0 0.001337 ± 1.515e−06
0.0035
0.003
0.0025
0.002
0.0015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

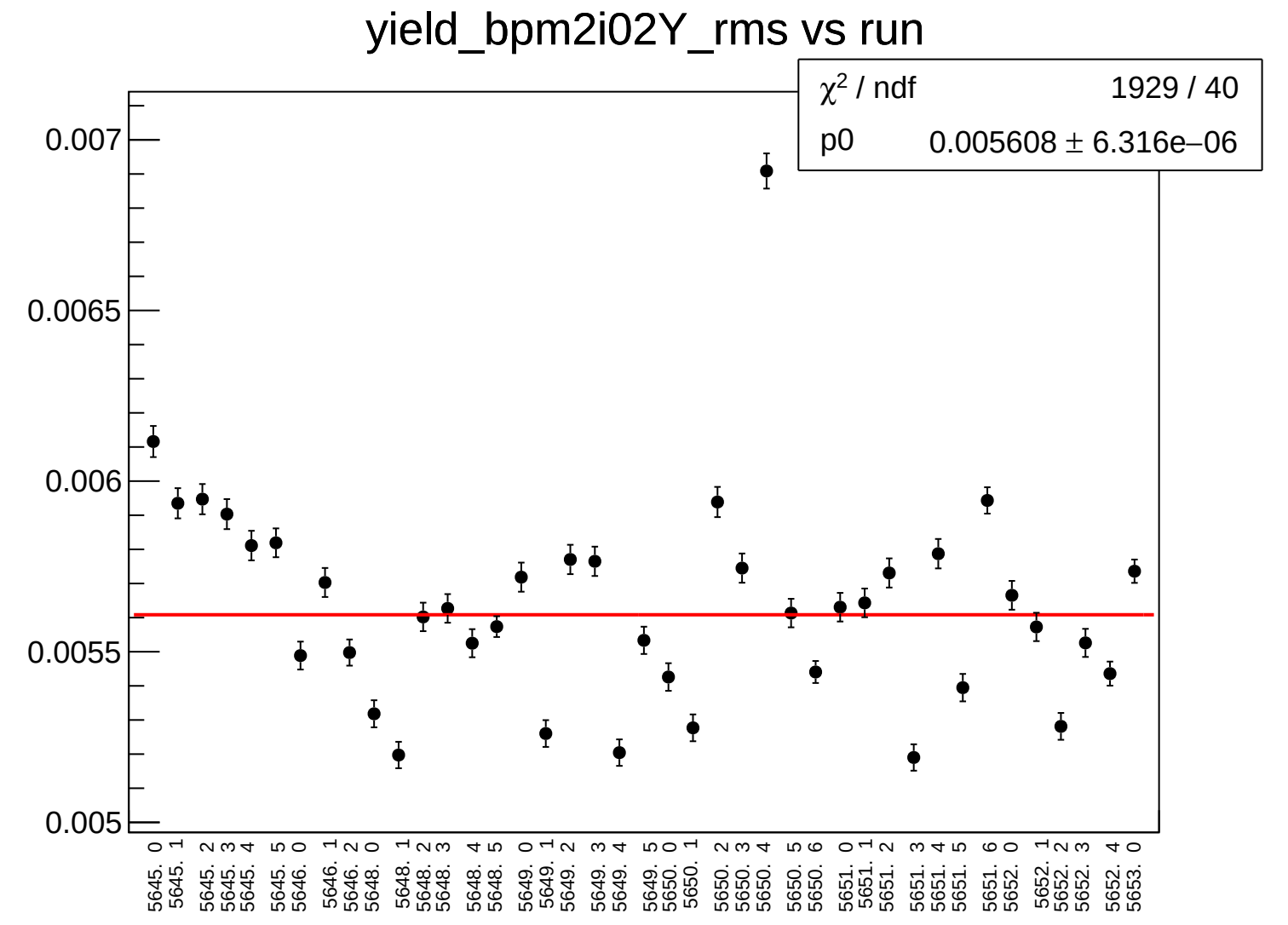

yield_bpm2i02X_mean vs run
χ² / ndf 9.989e+04 / 40
p0 0.8747 ± 8.693e−06
0.88
0.878
0.876
0.874
0.872
0.87
0.868
pull
Entries 41
Mean −210.9
Std Dev 0
100
50
0
−50
−100

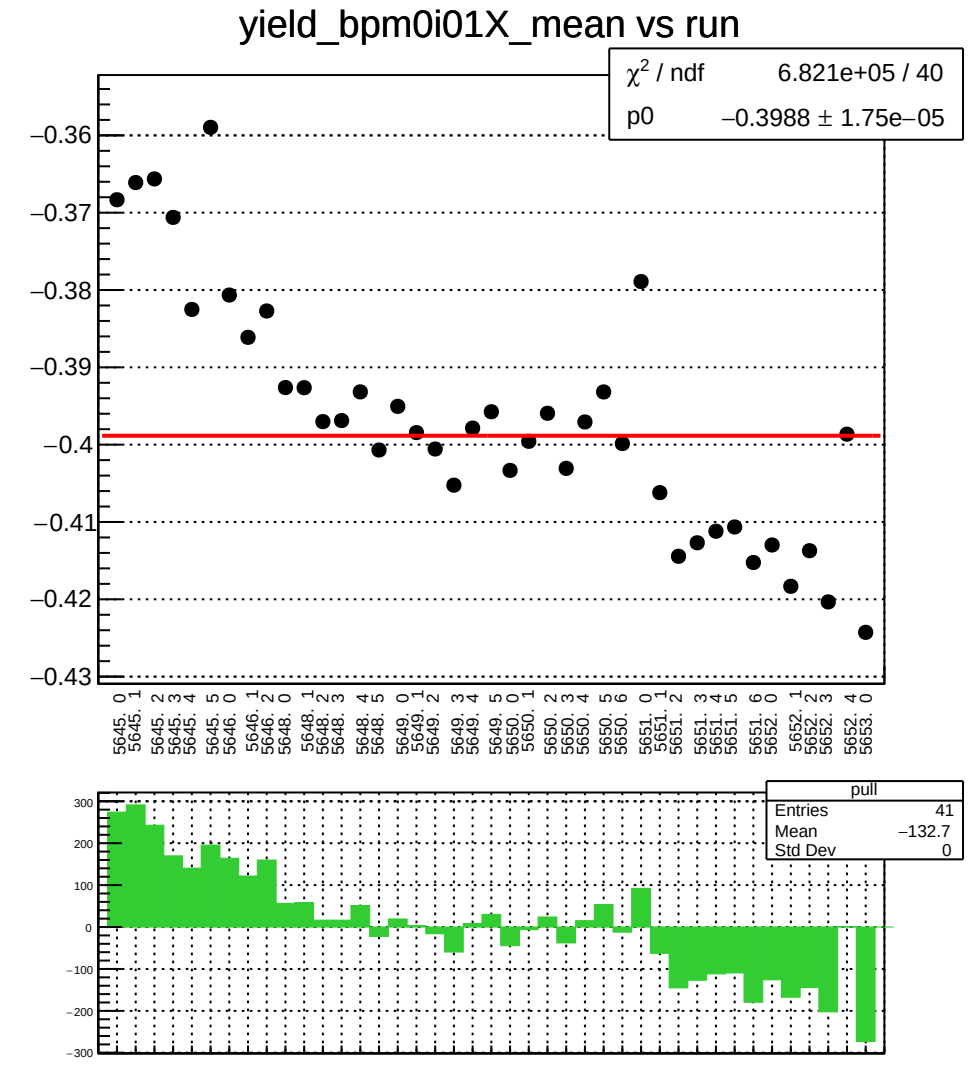

pull1D
Entries 41
Mean 1.961
Std Dev 0.6581
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

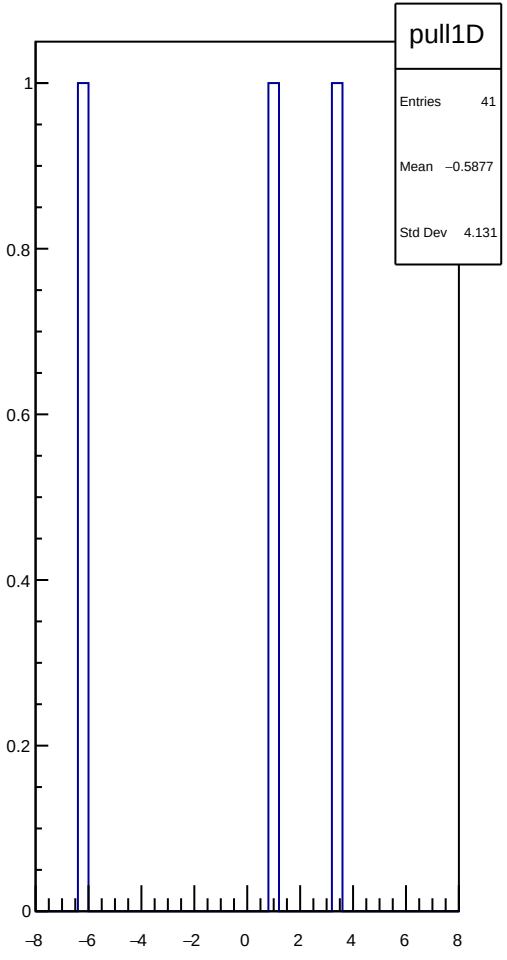

yield_bpm2i02X_rms vs run
χ² / ndf 1880 / 40
p0 0.005458 ± 6.147e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

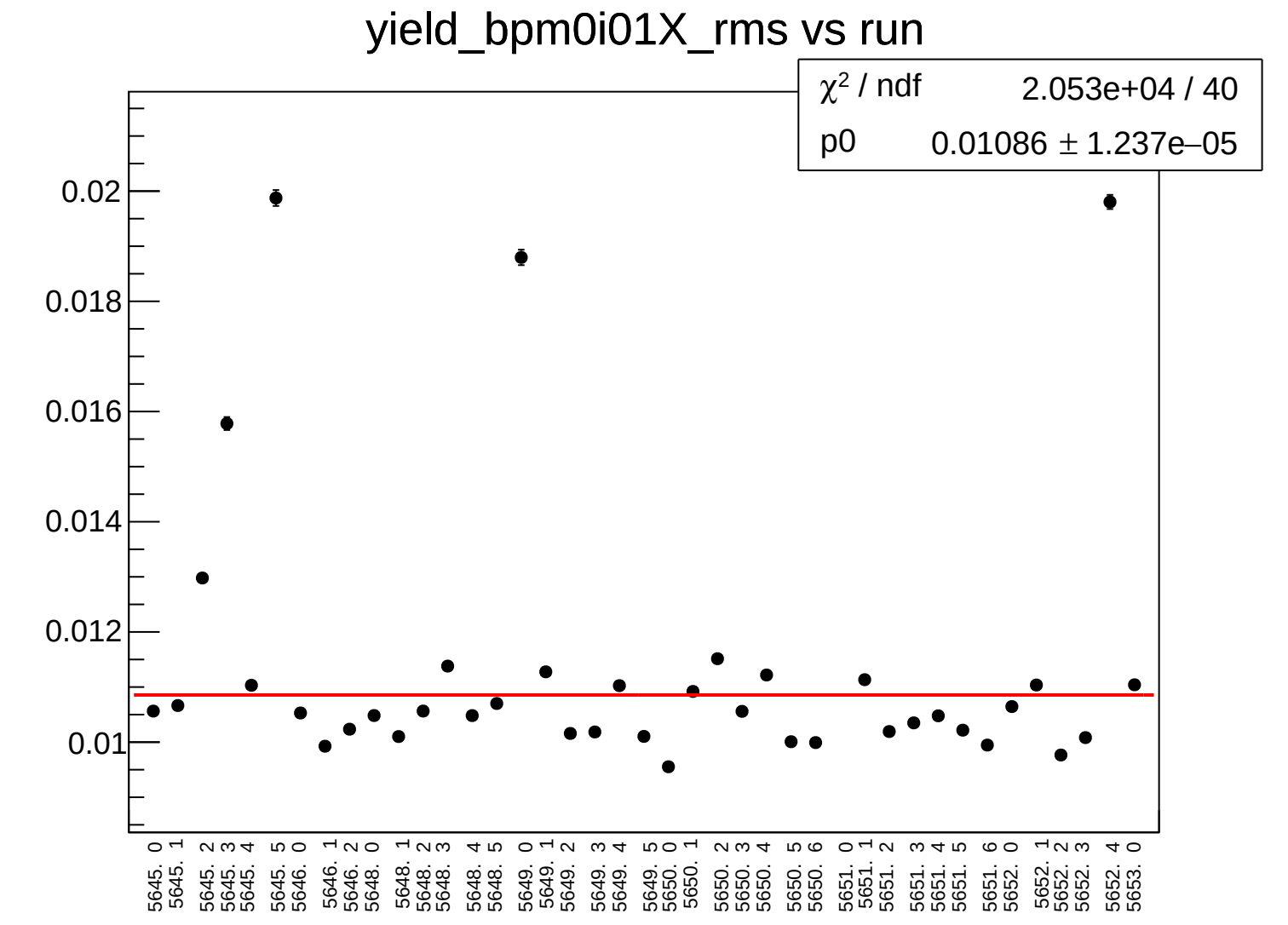

yield_bpm2i02Y_mean vs run
χ² / ndf 8.029e+05 / 40
p0 −1.964 ± 8.932e−06
−1.95
−1.955
−1.96
−1.965
−1.97
−1.975
−1.98
−1.985
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −256.8
Std Dev 0
200
100
0
−100
−200
−300

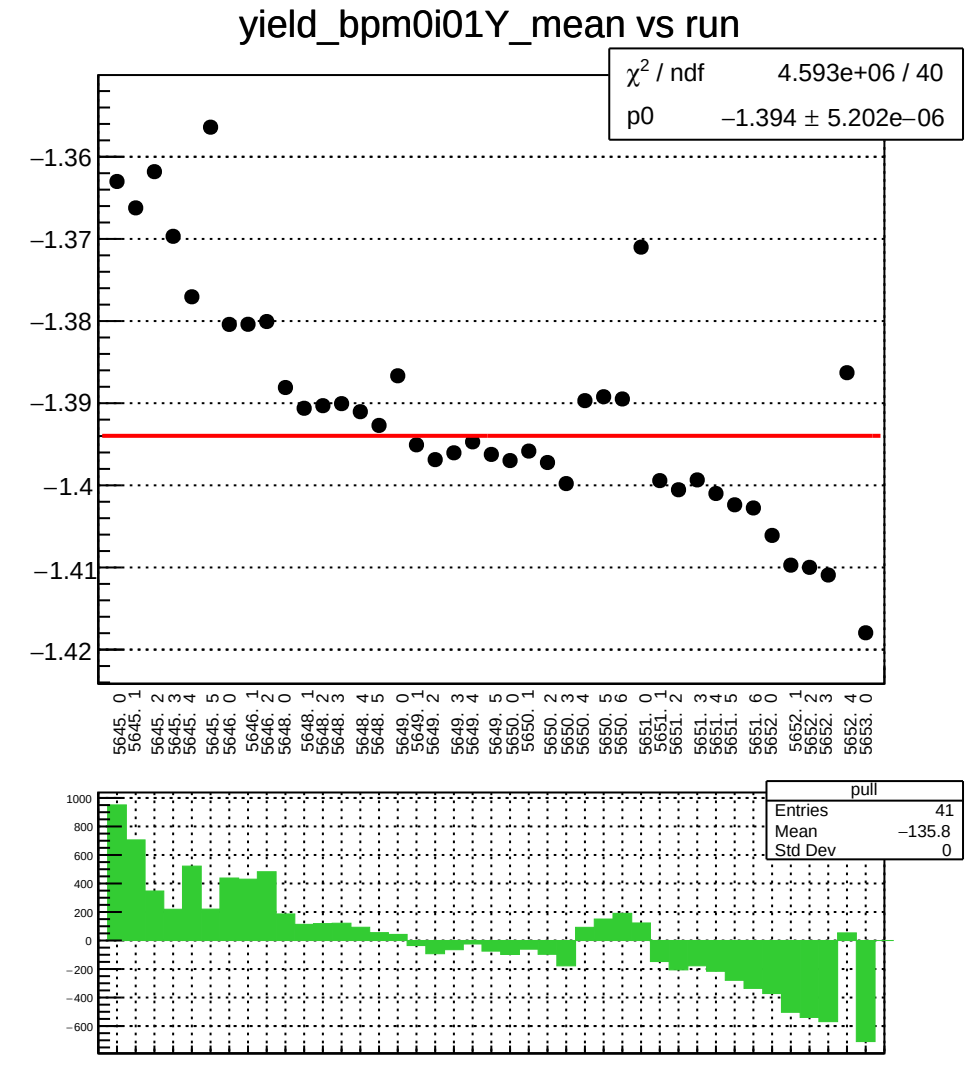

pull1D
Entries 41
Mean −3.113
Std Dev 1.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

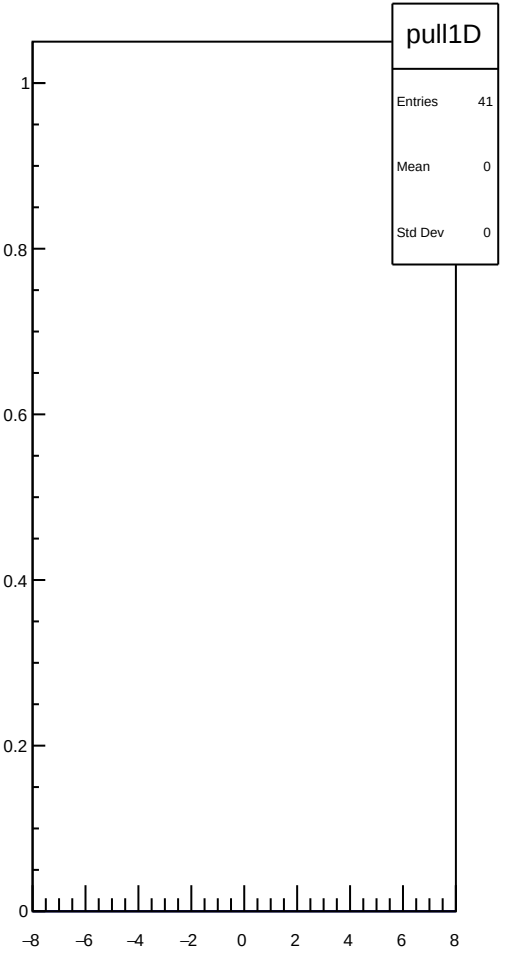

yield_bpm2i02Y_rms vs run
χ² / ndf 1929 / 40
p0 0.005608 ± 6.316e−06
0.007
0.0065
0.006
0.0055
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

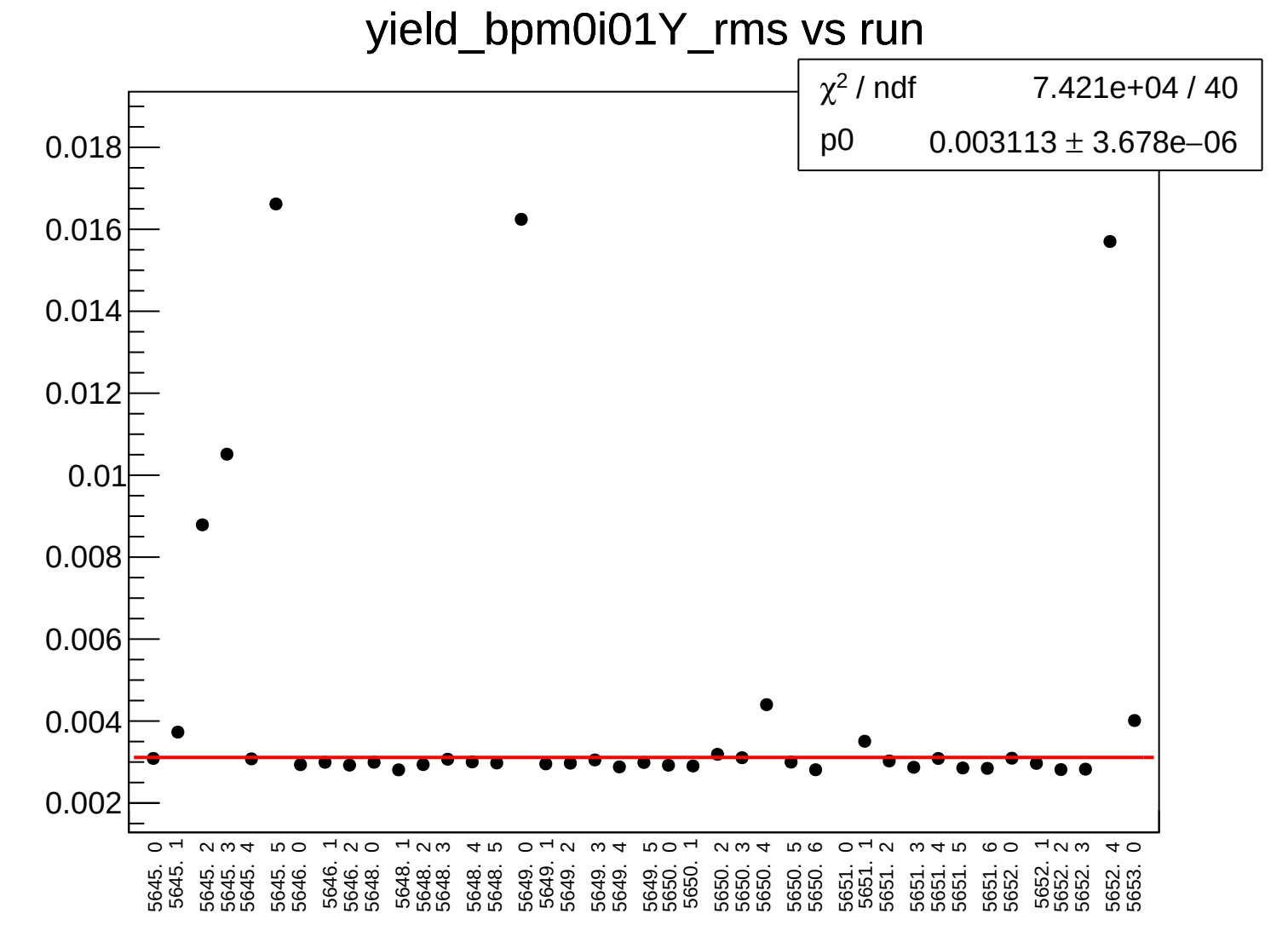

yield_bpm0i01X_mean vs run
χ² / ndf 6.821e+05 / 40
p0 −0.3988 ± 1.75e−05
−0.36
−0.37
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −132.7
Std Dev 0
300
200
100
0
−100
−200
−300

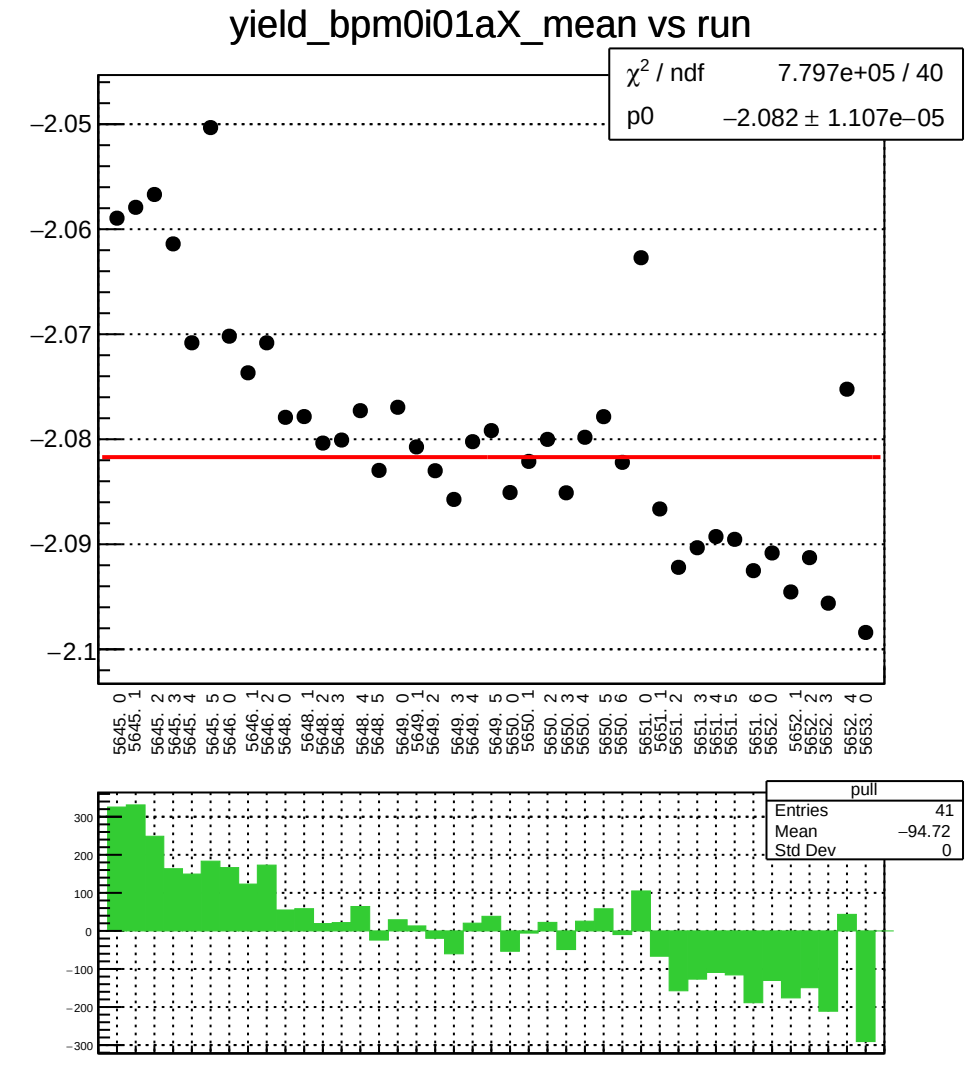

pull1D
Entries 41
Mean −0.5877
Std Dev 4.131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

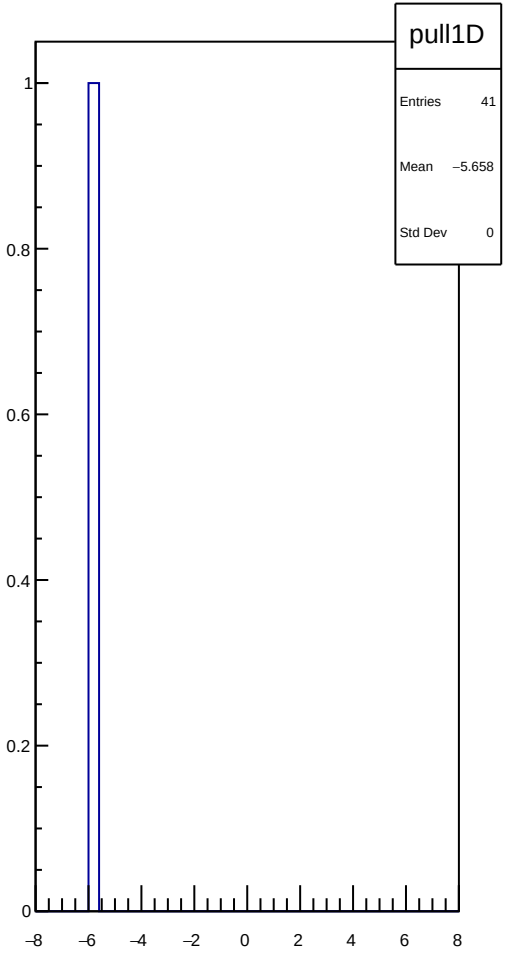

yield_bpm0i01X_rms vs run
χ² / ndf 2.053e+04 / 40
p0 0.01086 ± 1.237e–05
0.02
0.018
0.016
0.014
0.012
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

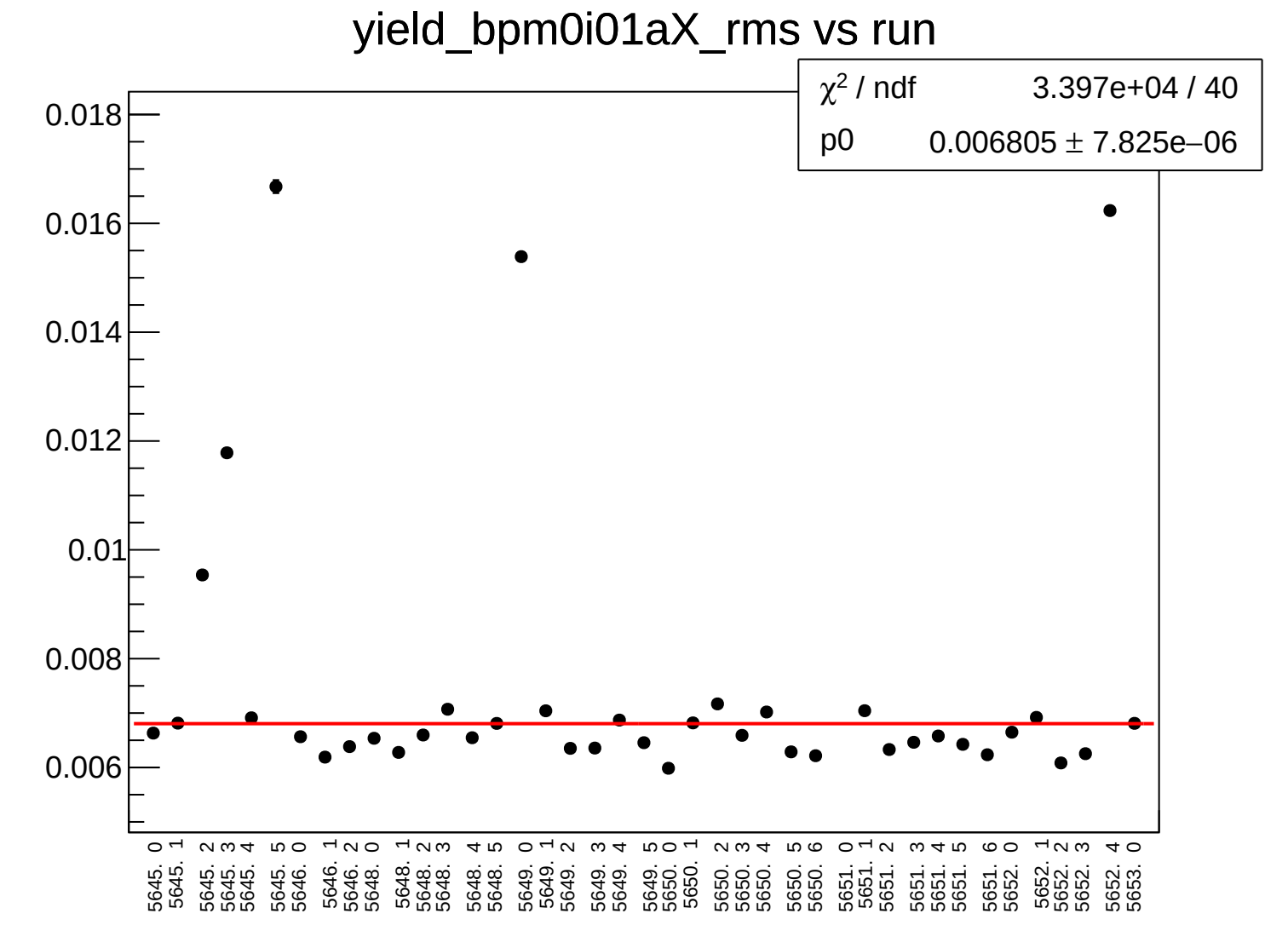

yield_bpm0i01Y_mean vs run
χ² / ndf 4.593e+06 / 40
p0 −1.394 ± 5.202e−06
−1.36
−1.37
−1.38
−1.39
−1.4
−1.41
−1.42
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −135.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

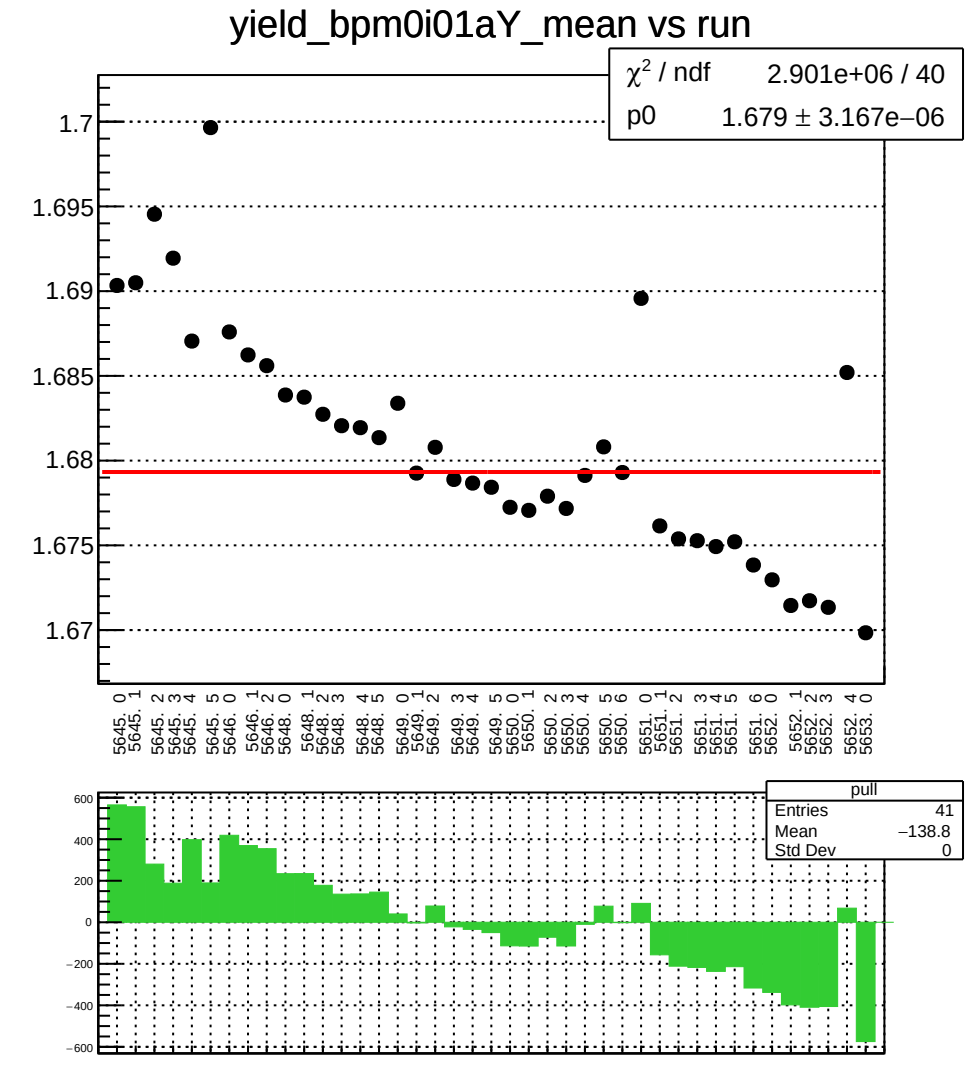

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

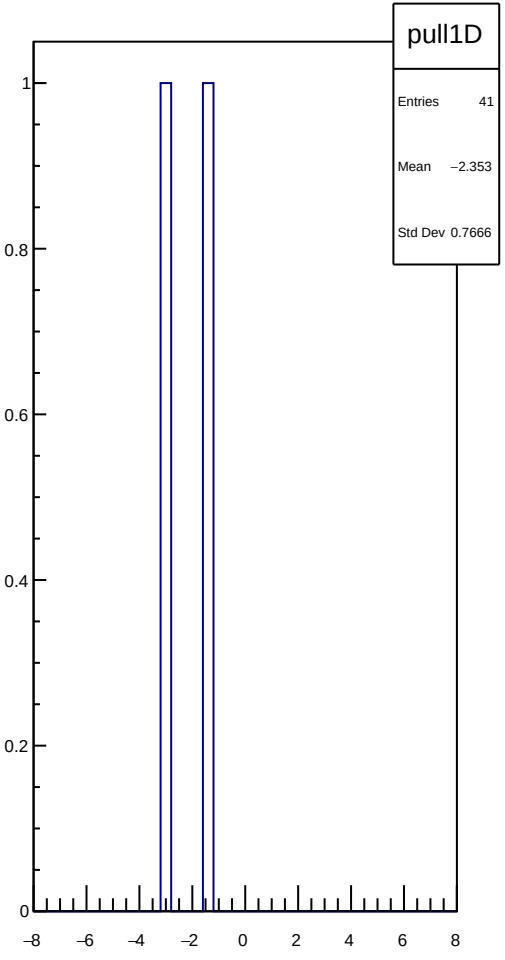

yield_bpm0i01Y_rms vs run
χ² / ndf 7.421e+04 / 40
p0 0.003113 ± 3.678e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

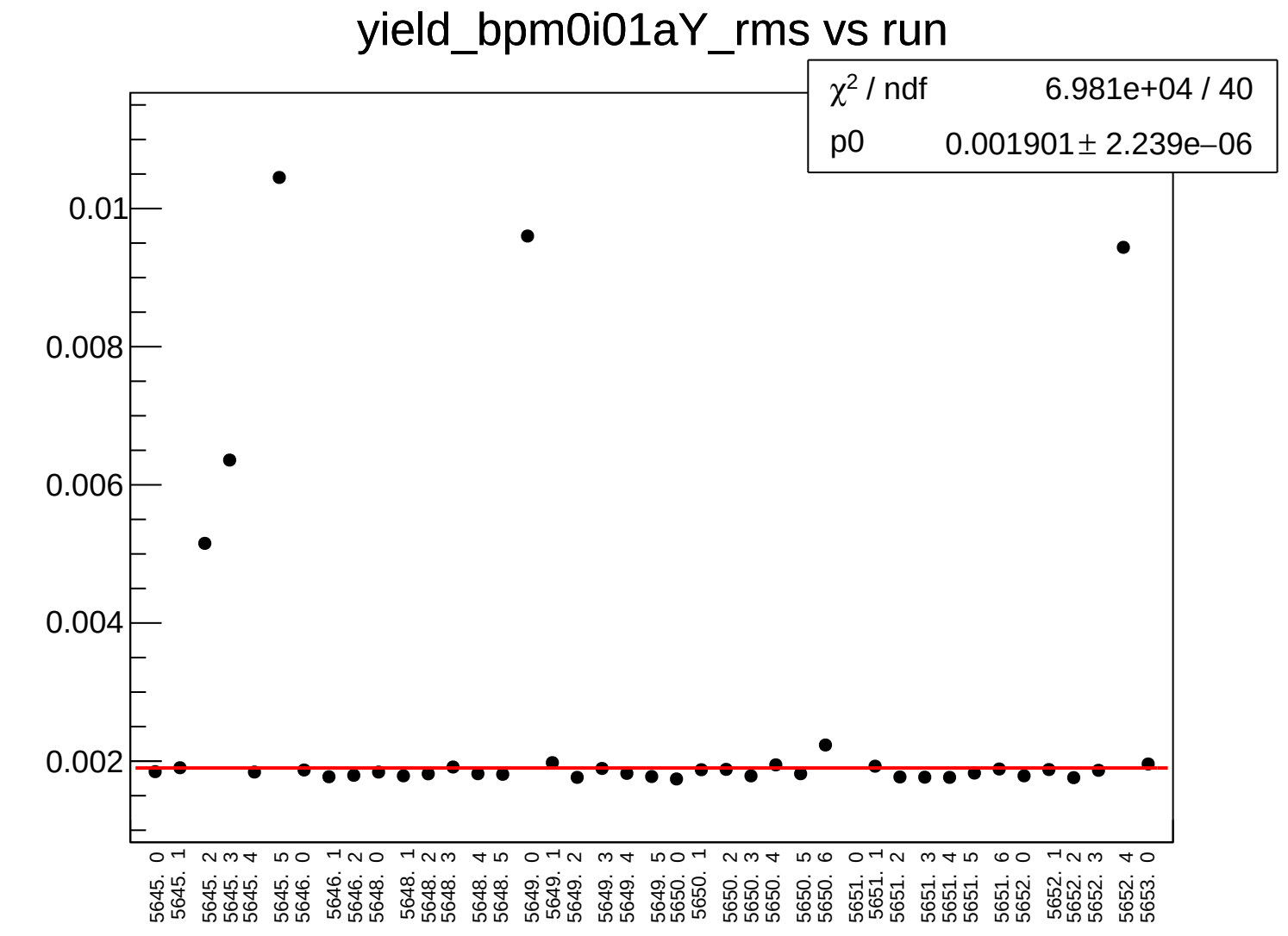

yield_bpm0i01aX_mean vs run
χ² / ndf 7.797e+05 / 40
p0 −2.082 ± 1.107e−05
−2.05
−2.06
−2.07
−2.08
−2.09
−2.1
pull
Entries 41
Mean −94.72
Std Dev 0
300
200
100
0
−100
−200
−300

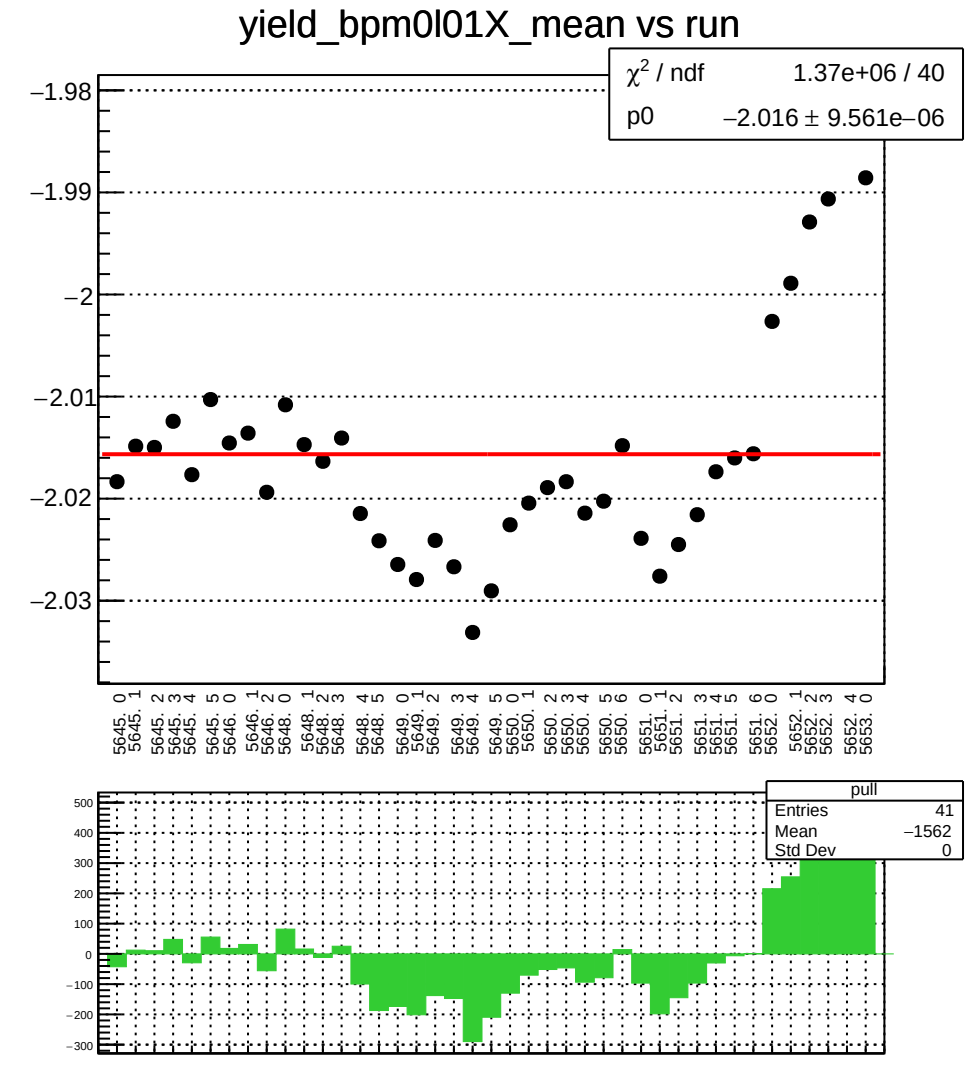

pull1D
Entries 41
Mean −5.658
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

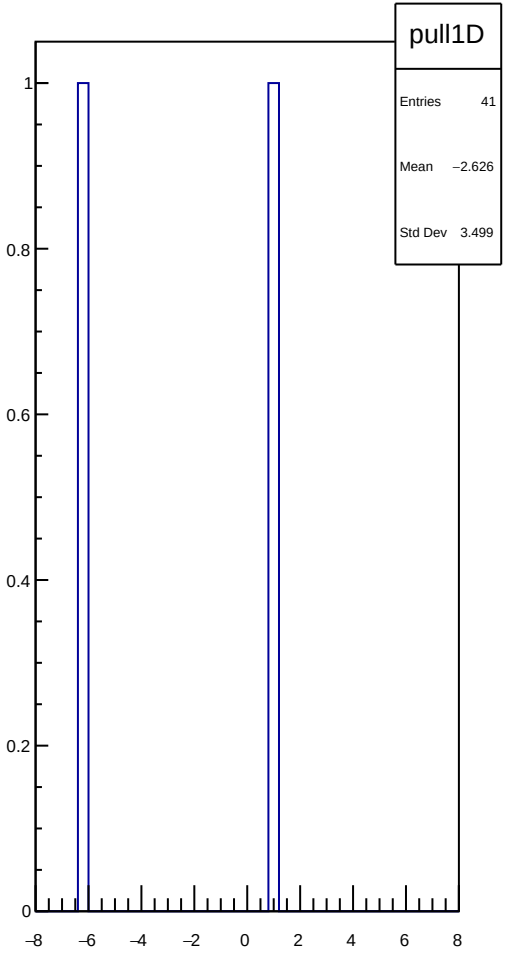

yield_bpm0i01aX_rms vs run
χ² / ndf 3.397e+04 / 40
p0 0.006805 ± 7.825e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

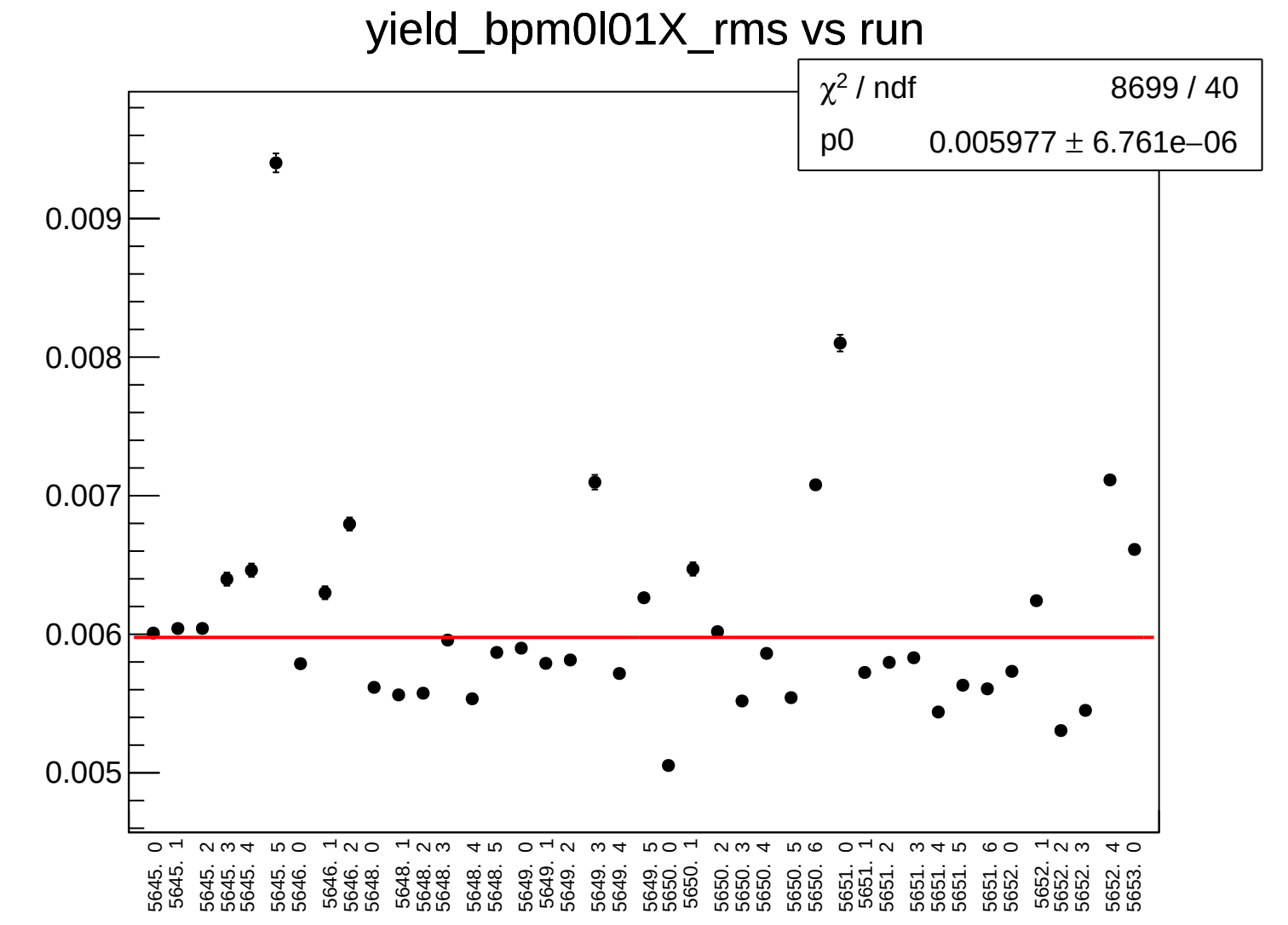

yield_bpm0i01aY_mean vs run
χ² / ndf 2.901e+06 / 40
p0 1.679 ± 3.167e−06
1.7
1.695
1.69
1.685
1.68
1.675
1.67
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −138.8
Std Dev 0
600
400
200
0
−200
−400
−600

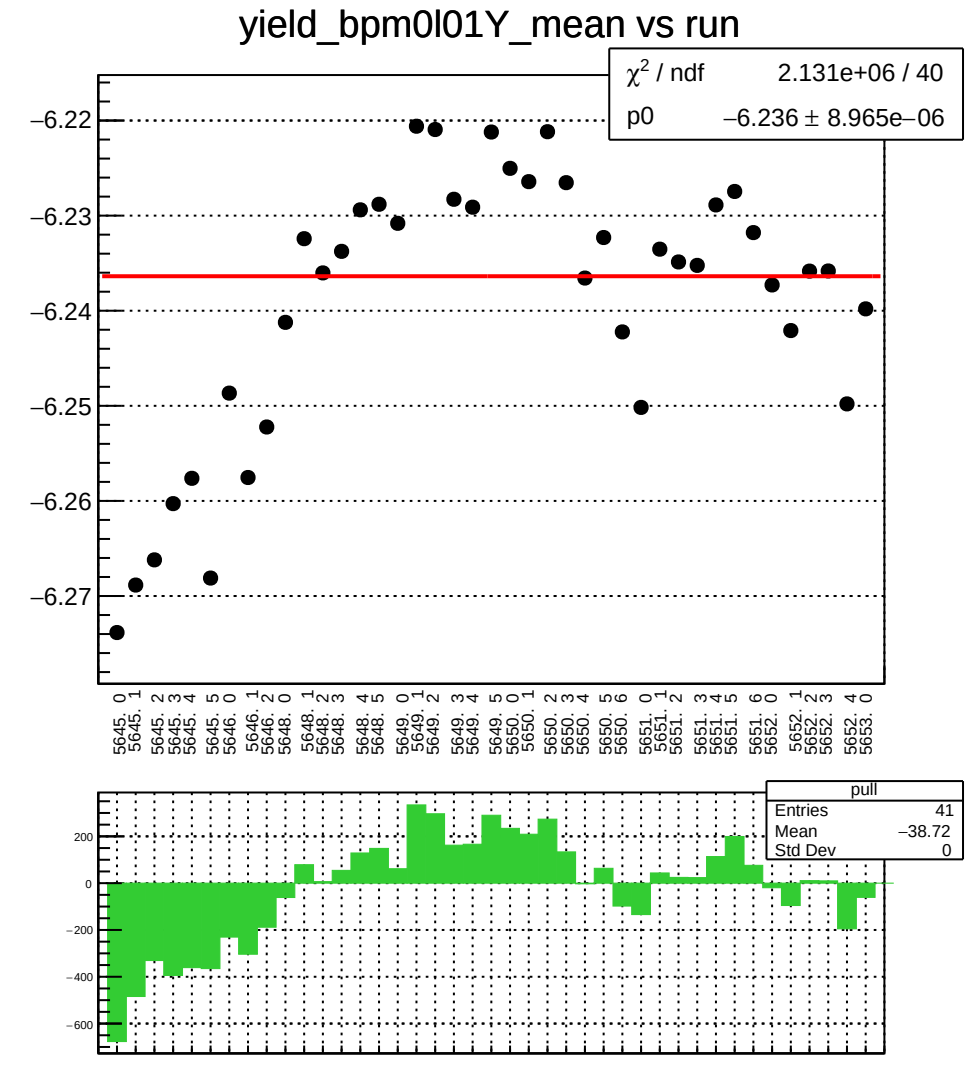

pull1D
Entries 41
Mean −2.353
Std Dev 0.7666
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

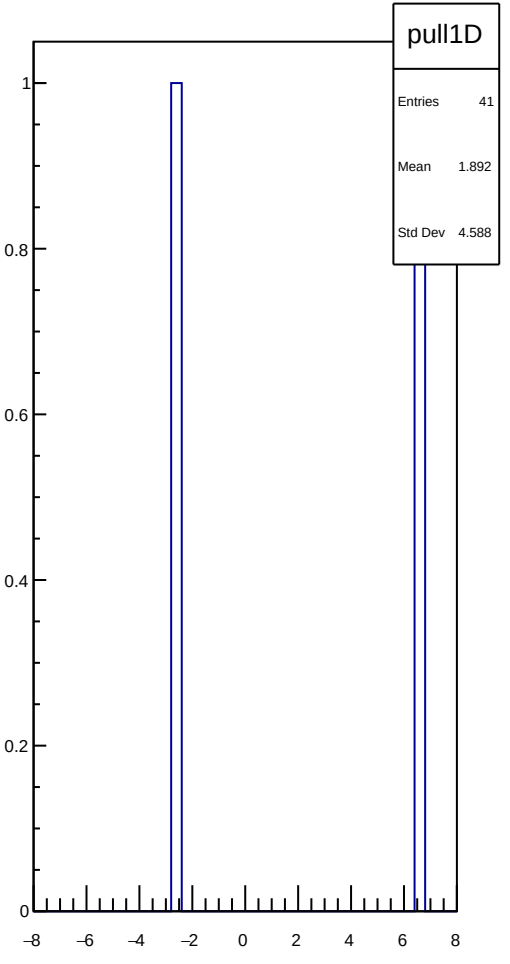

yield_bpm0i01aY_rms vs run
χ² / ndf 6.981e+04 / 40
p0 0.001901 ± 2.239e−06
0.01
0.008
0.006
0.004
0.002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

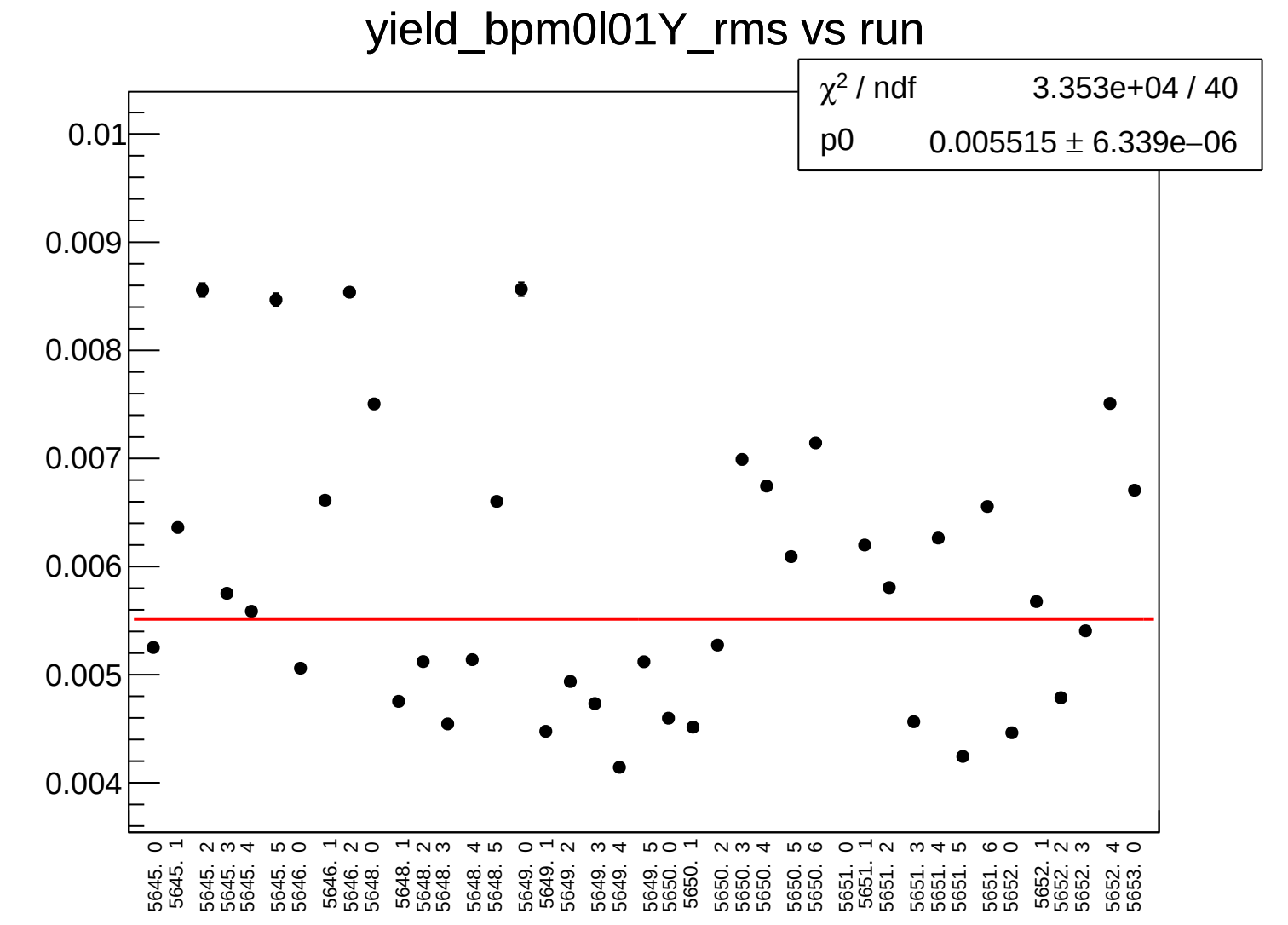

yield_bpm0l01X_mean vs run
χ² / ndf 1.37e+06 / 40
p0 −2.016 ± 9.561e−06
−1.98
−1.99
−2
−2.01
−2.02
−2.03
pull
Entries 41
Mean −1562
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

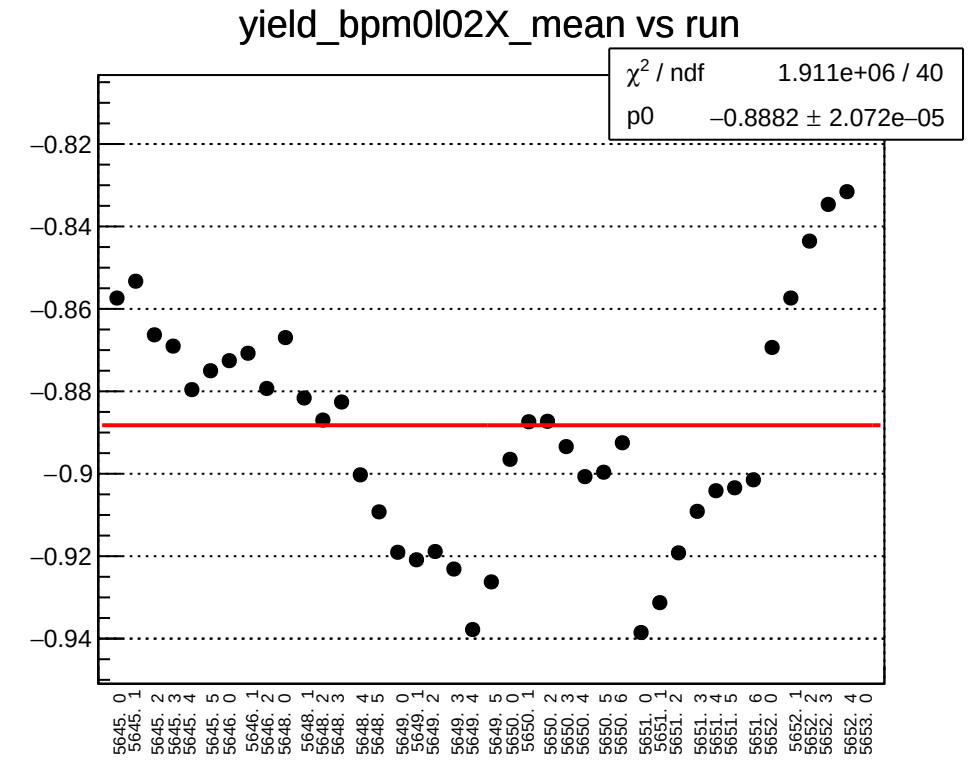

pull1D
Entries 41
Mean −2.626
Std Dev 3.499
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

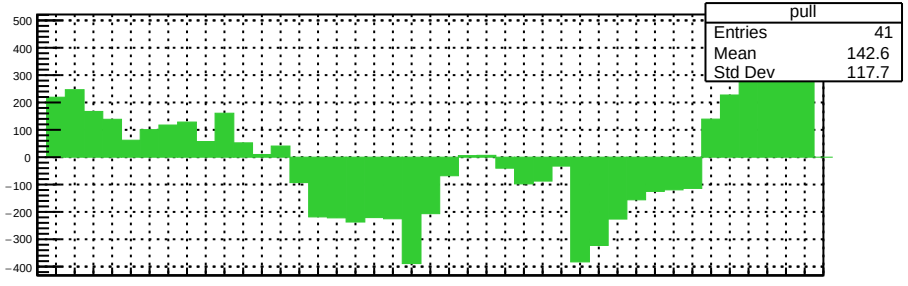

yield_bpm0l01X_rms vs run
χ² / ndf 8699 / 40
p0 0.005977 ± 6.761e−06
0.009
0.008
0.007
0.006
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

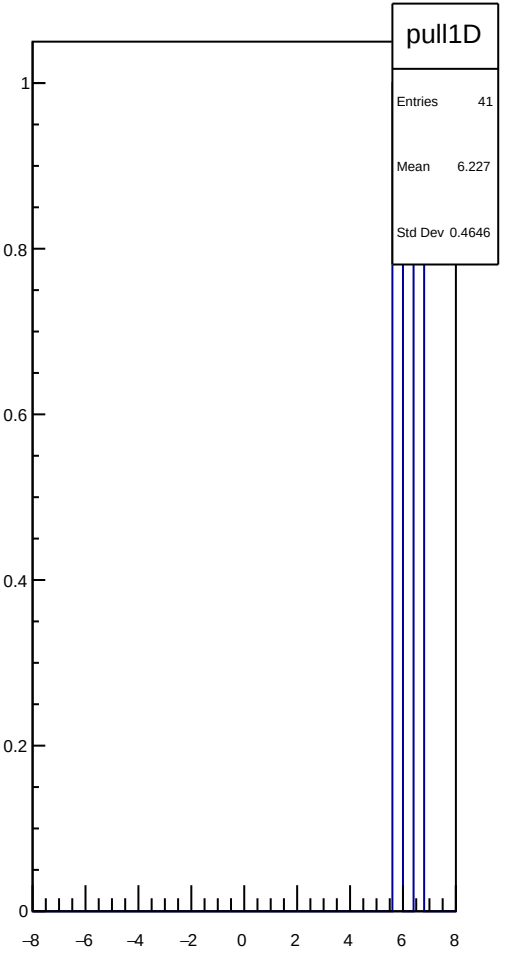

yield_bpm0l01Y_mean vs run
χ² / ndf 2.131e+06 / 40
p0 −6.236 ± 8.965e−06
−6.22
−6.23
−6.24
−6.25
−6.26
−6.27
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −38.72
Std Dev 0
200
0
−200
−400
−600

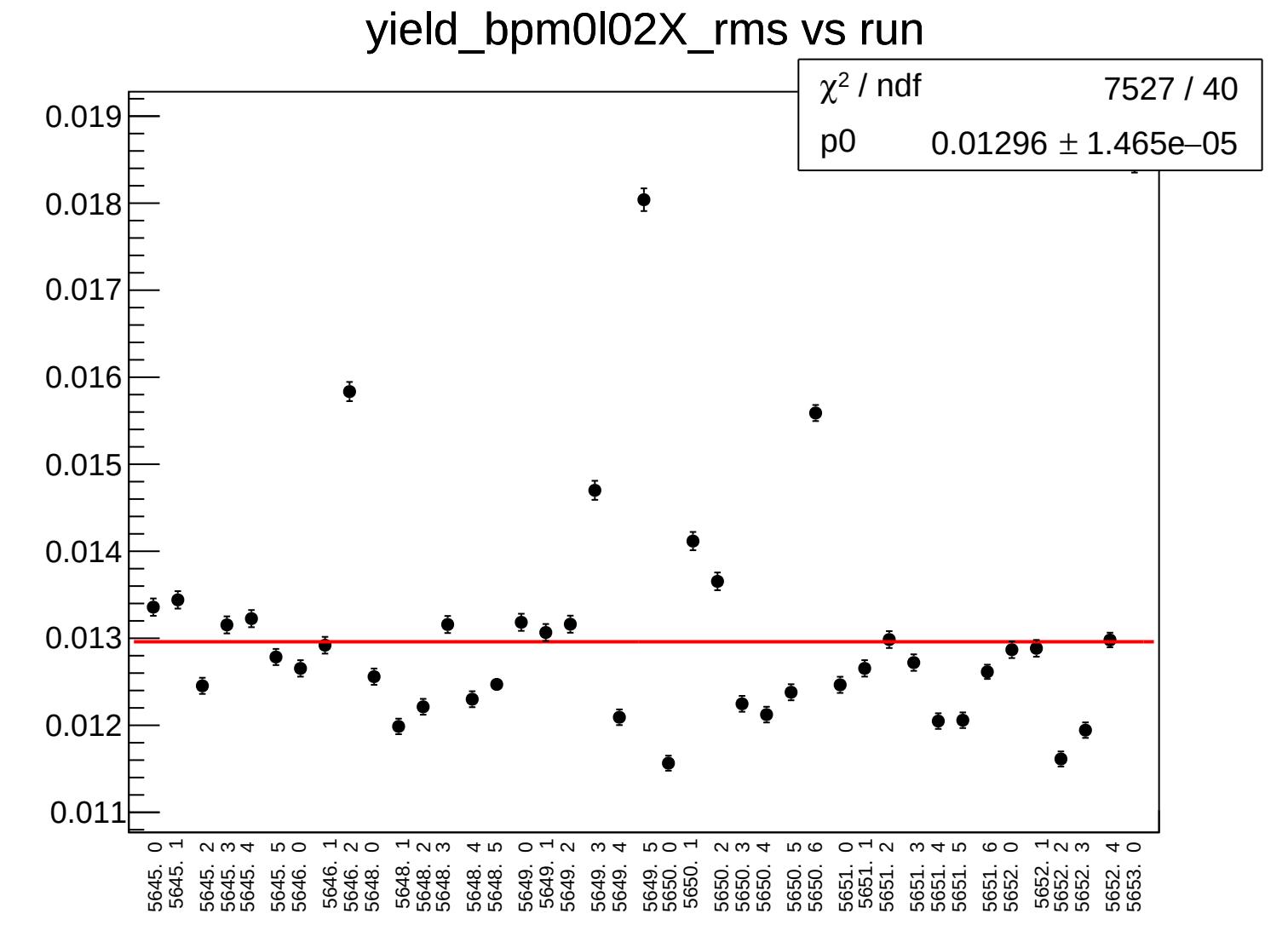

pull1D
Entries 41
Mean 1.892
Std Dev 4.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

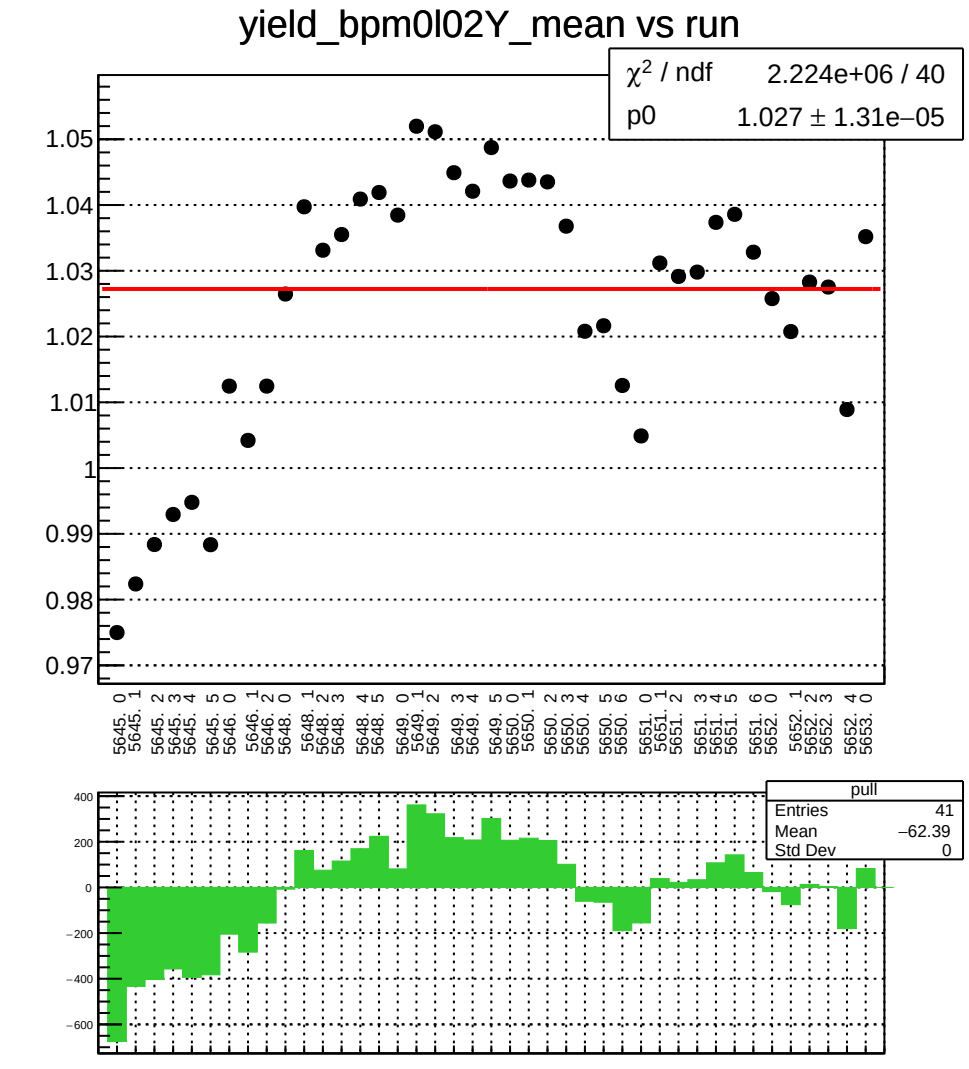

yield_bpm0l01Y_rms vs run
χ² / ndf 3.353e+04 / 40
p0 0.005515 ± 6.339e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

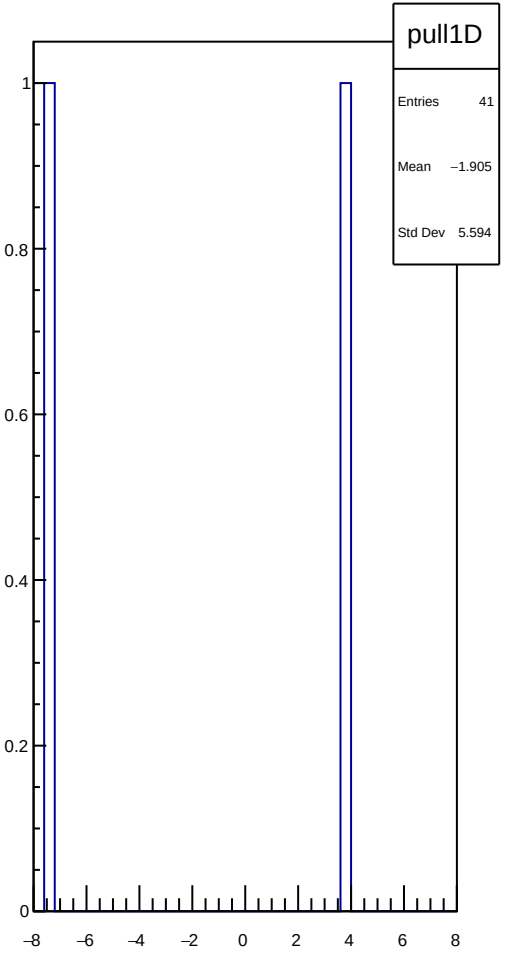

yield_bpm0l02X_mean vs run
χ² / ndf 1.911e+06 / 40
p0 −0.8882 ± 2.072e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

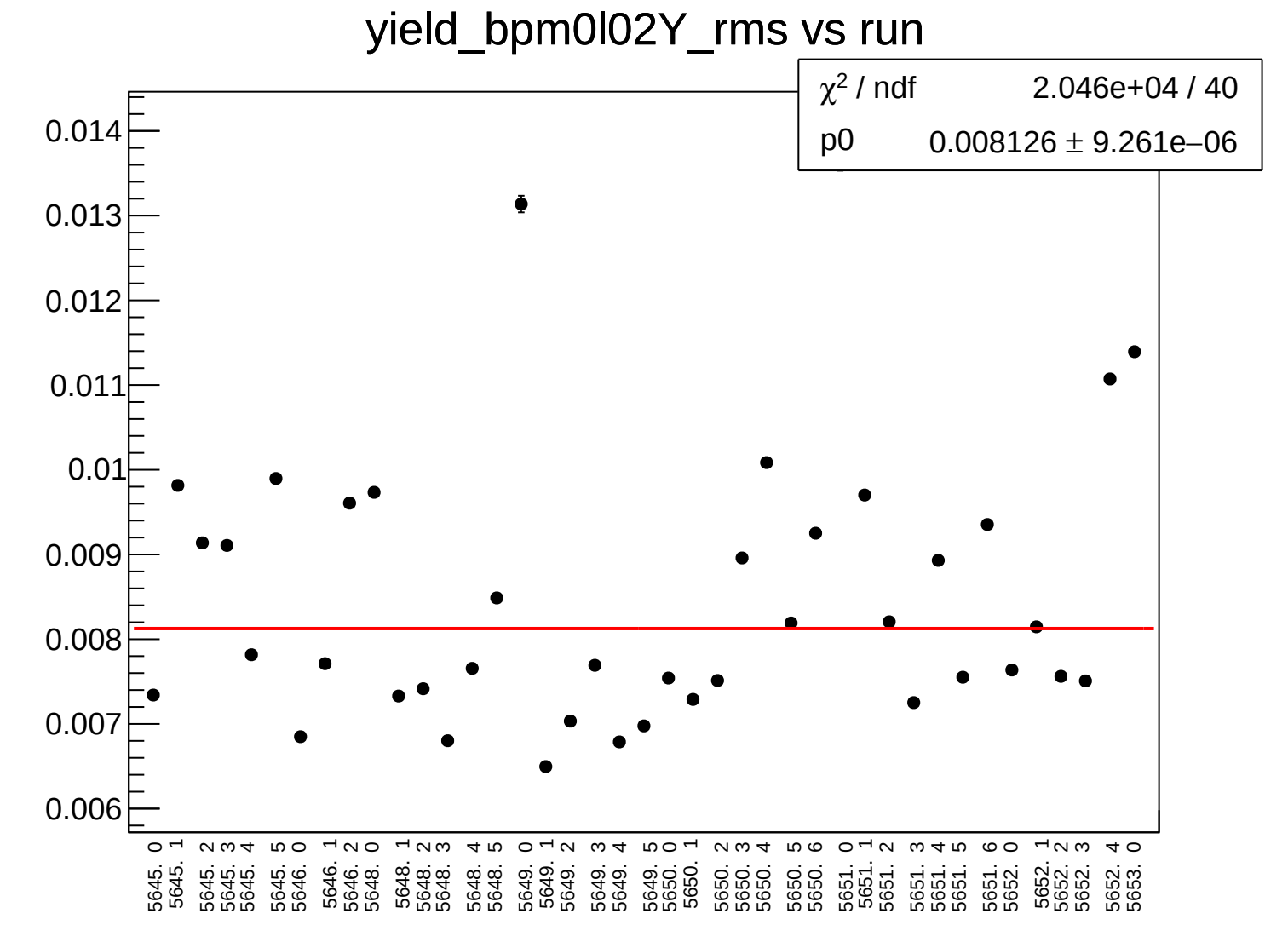

pull
Entries 41
Mean 142.6
Std Dev 117.7
500
400
300
200
100
0
−100
−200
−300
−400

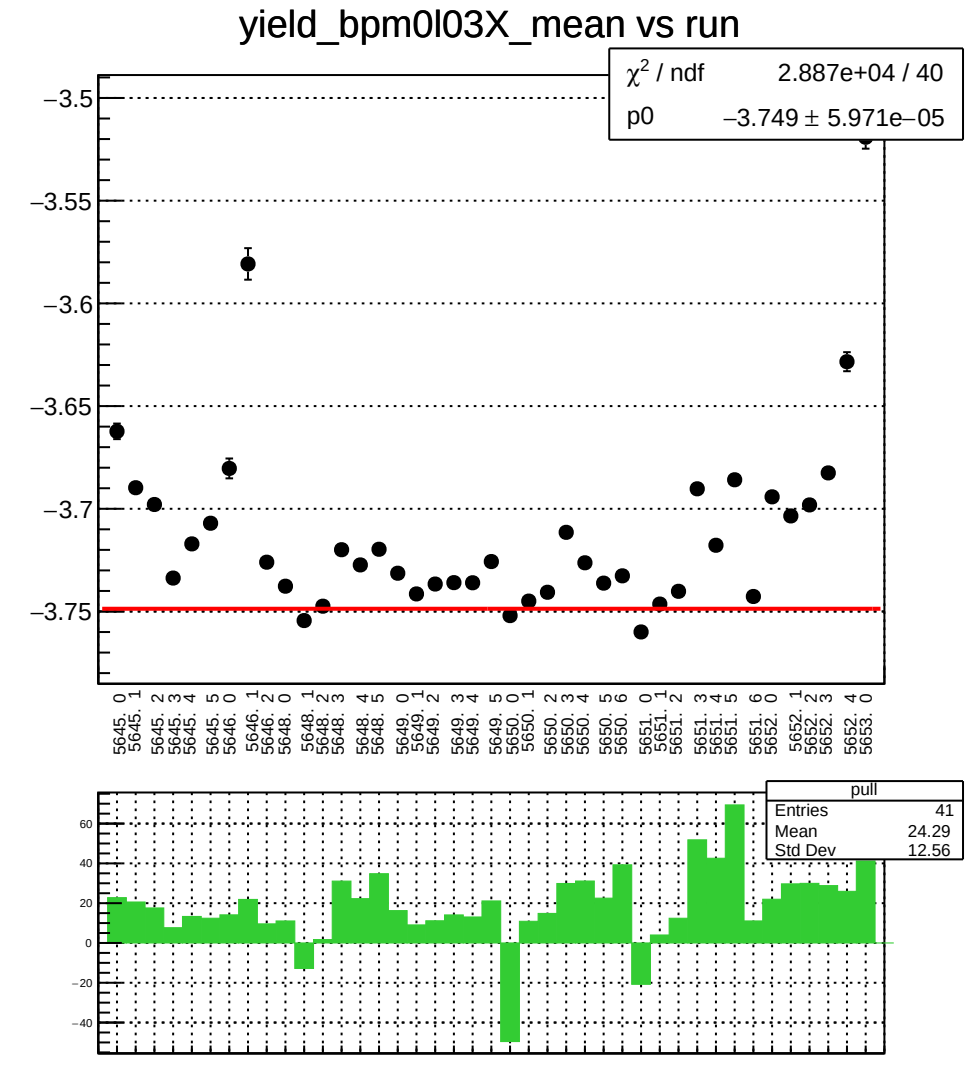

pull1D
Entries 41
Mean 6.227
Std Dev 0.4646
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

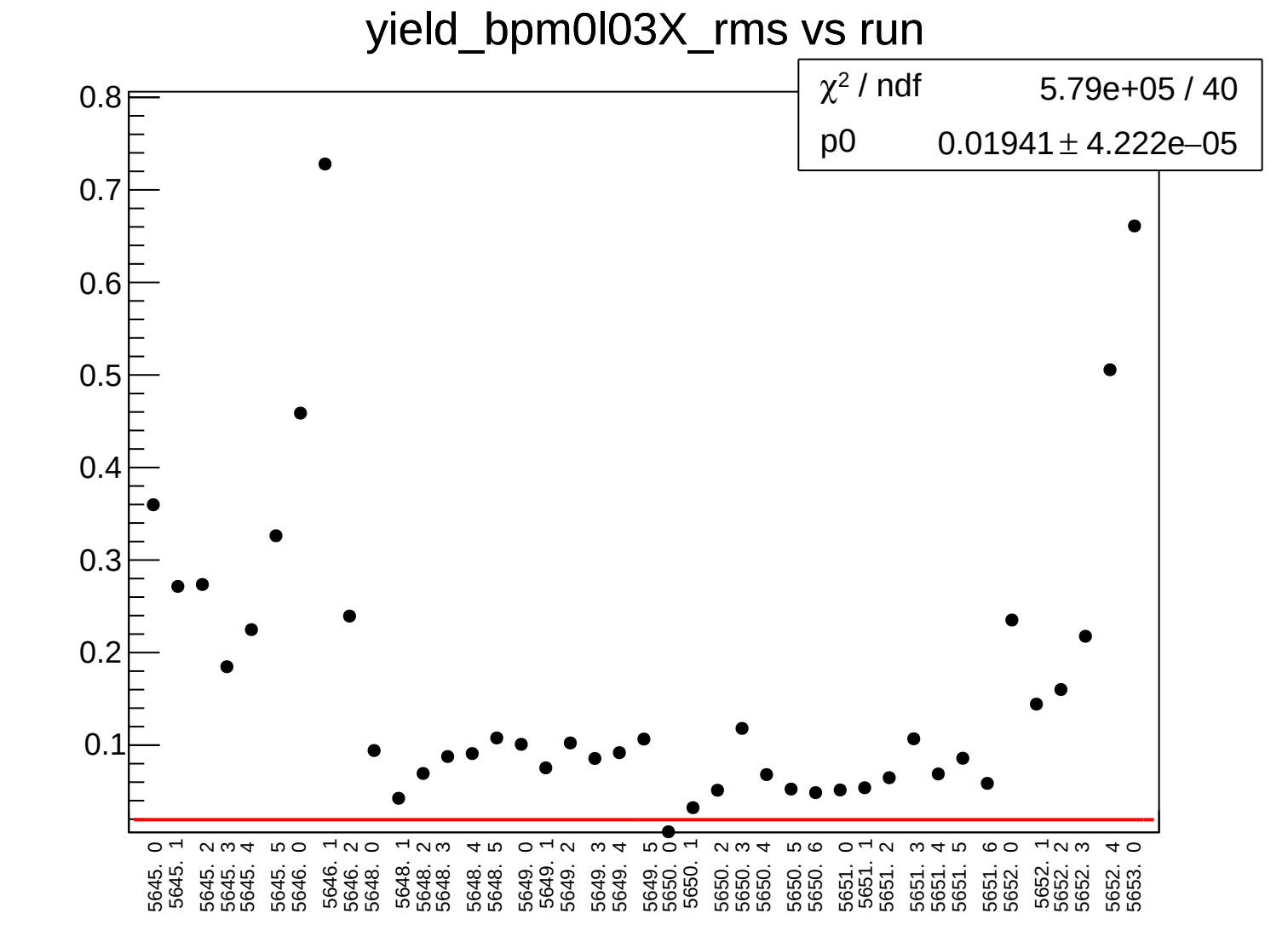

yield_bpm0l02X_rms vs run
χ² / ndf 7527 / 40
p0 0.01296 ± 1.465e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

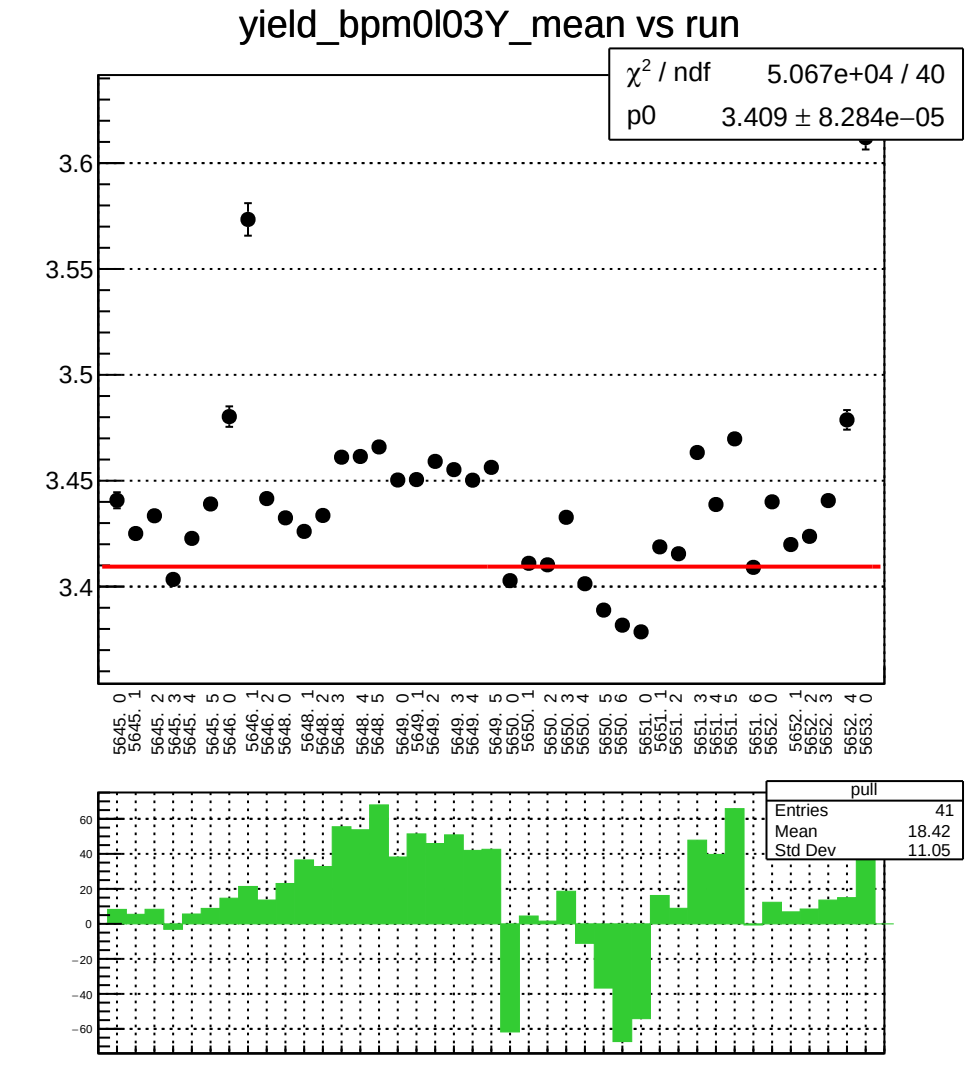

yield_bpm0l02Y_mean vs run
χ² / ndf 2.224e+06 / 40
p0 1.027 ± 1.31e−05
1.05
1.04
1.03
1.02
1.01
1
0.99
0.98
0.97
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −62.39
Std Dev 0
400
200
0
−200
−400
−600

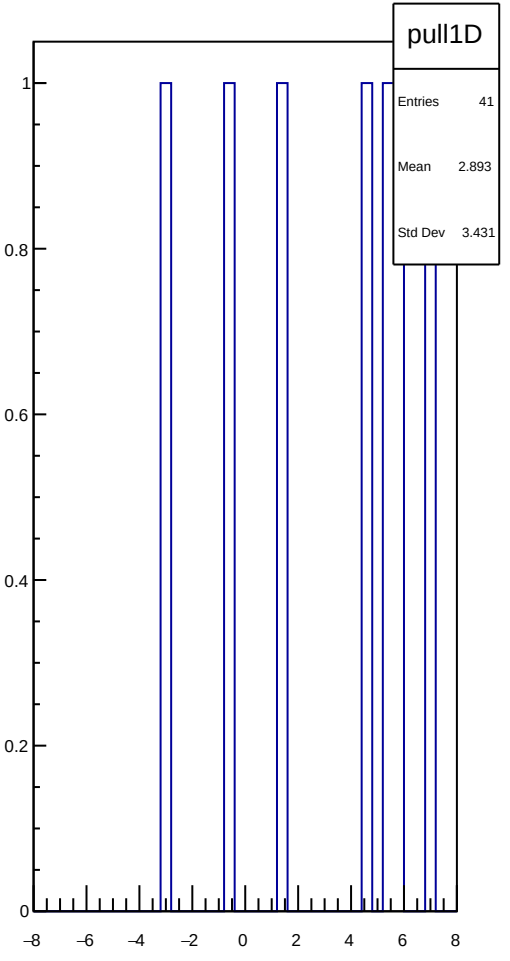

pull1D
Entries 41
Mean −1.905
Std Dev 5.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

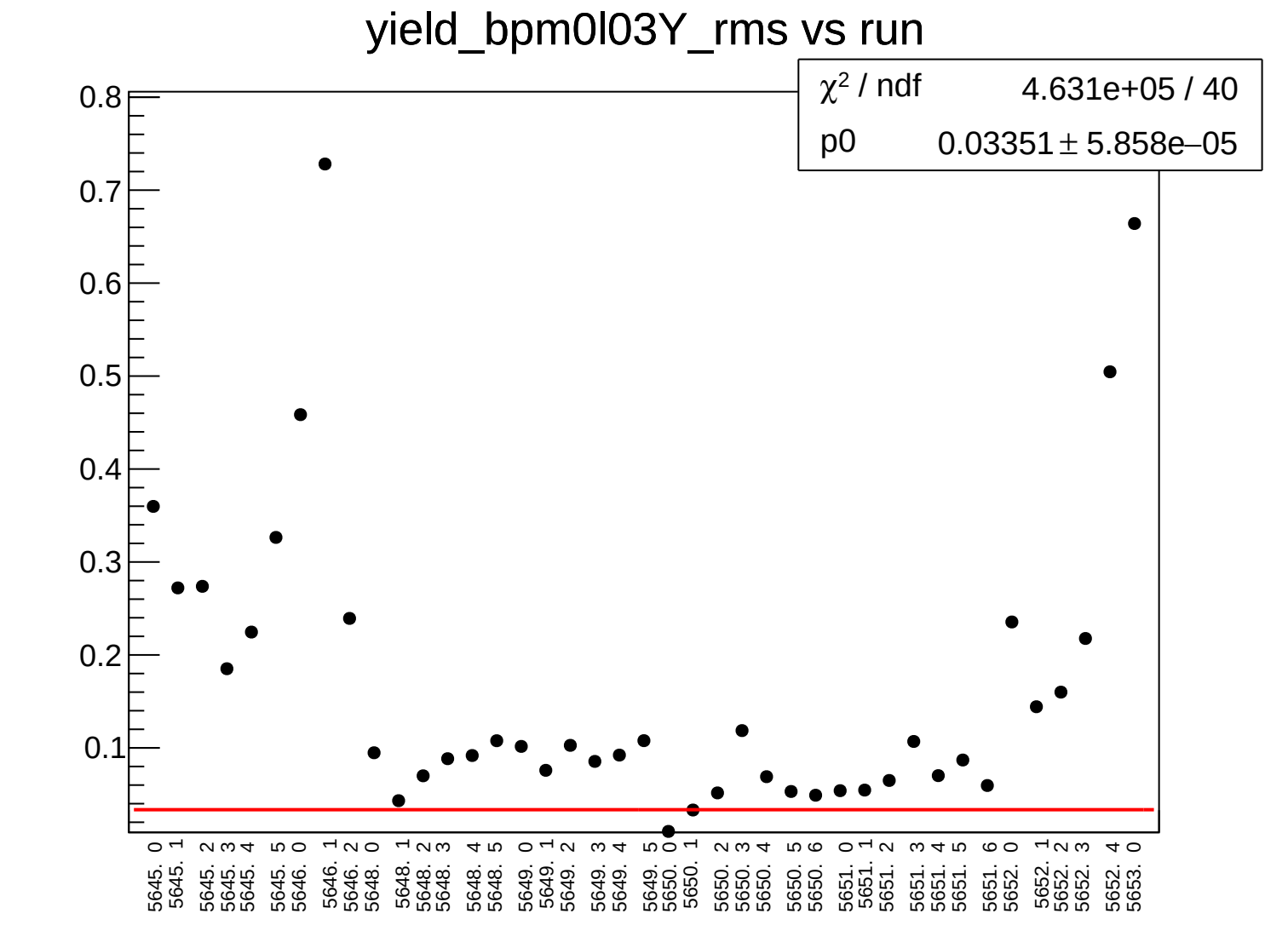

yield_bpm0l02Y_rms vs run
χ² / ndf 2.046e+04 / 40
p0 0.008126 ± 9.261e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

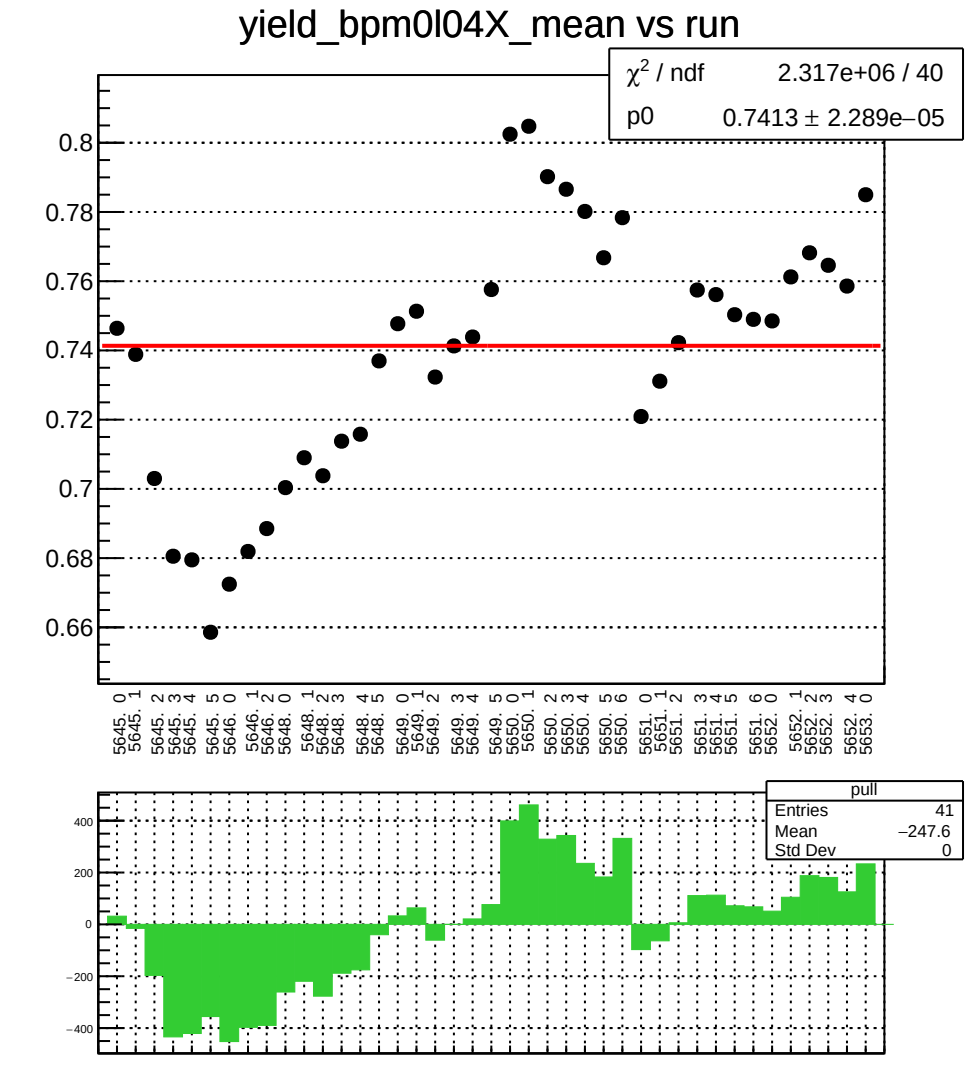

yield_bpm0l03X_mean vs run
χ² / ndf 2.887e+04 / 40
p0 −3.749 ± 5.971e−05
−3.5
−3.55
−3.6
−3.65
−3.7
−3.75
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.29
Std Dev 12.56
60
40
20
0
−20
−40
pull1D
Entries 41
Mean 4.46
Std Dev 2.457
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

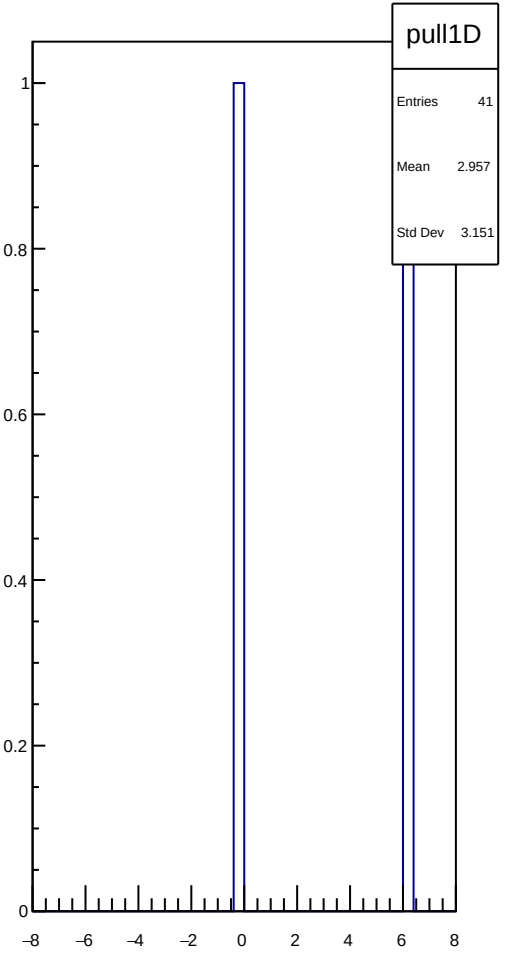

yield_bpm0l03X_rms vs run
χ² / ndf 5.79e+05 / 40
p0 0.01941 ± 4.222e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

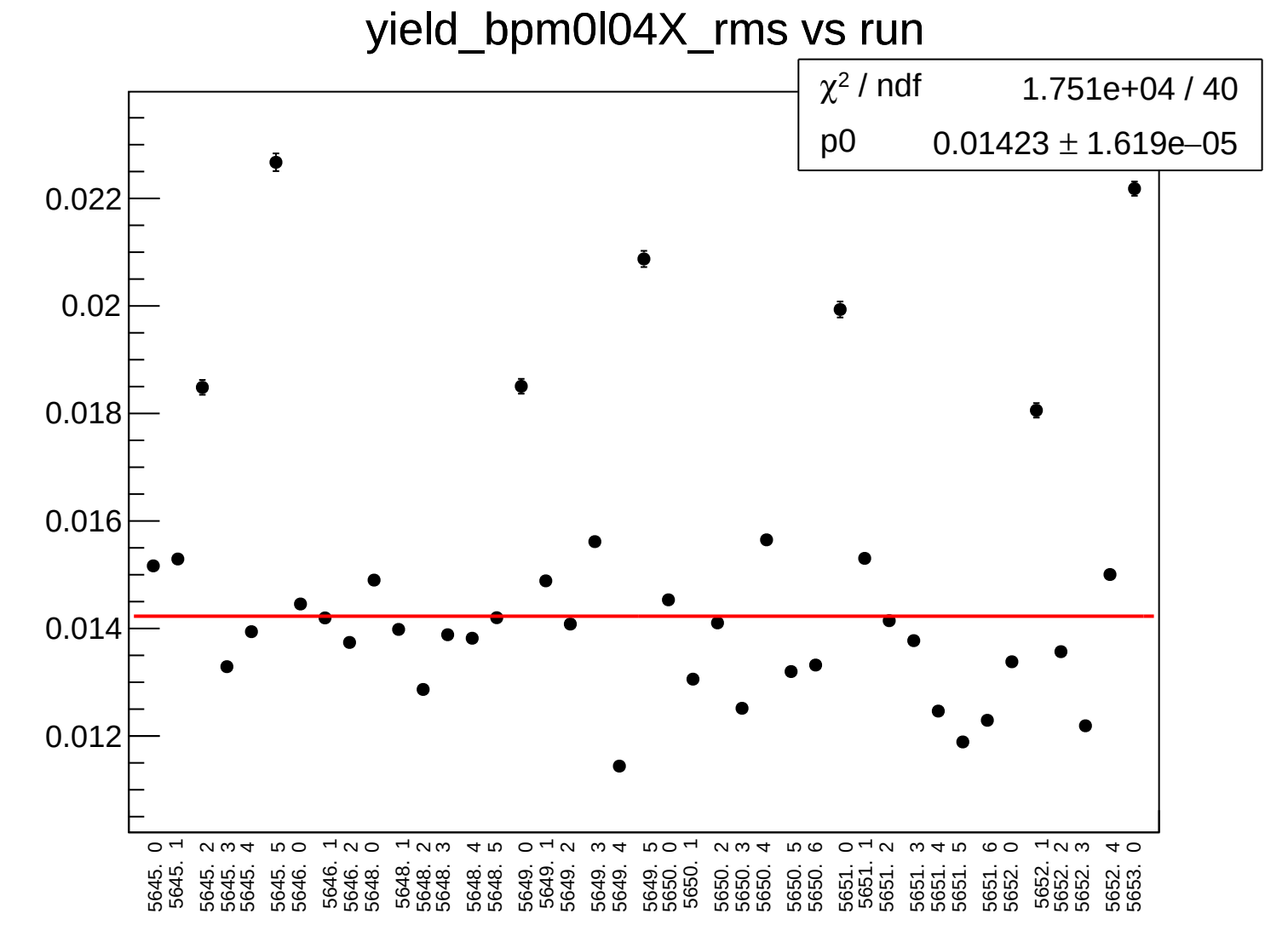

yield_bpm0l03Y_mean vs run
χ² / ndf 5.067e+04 / 40
p0 3.409 ± 8.284e−05
3.6
3.55
3.5
3.45
3.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 18.42
Std Dev 11.05
60
40
20
0
−20
−40
−60

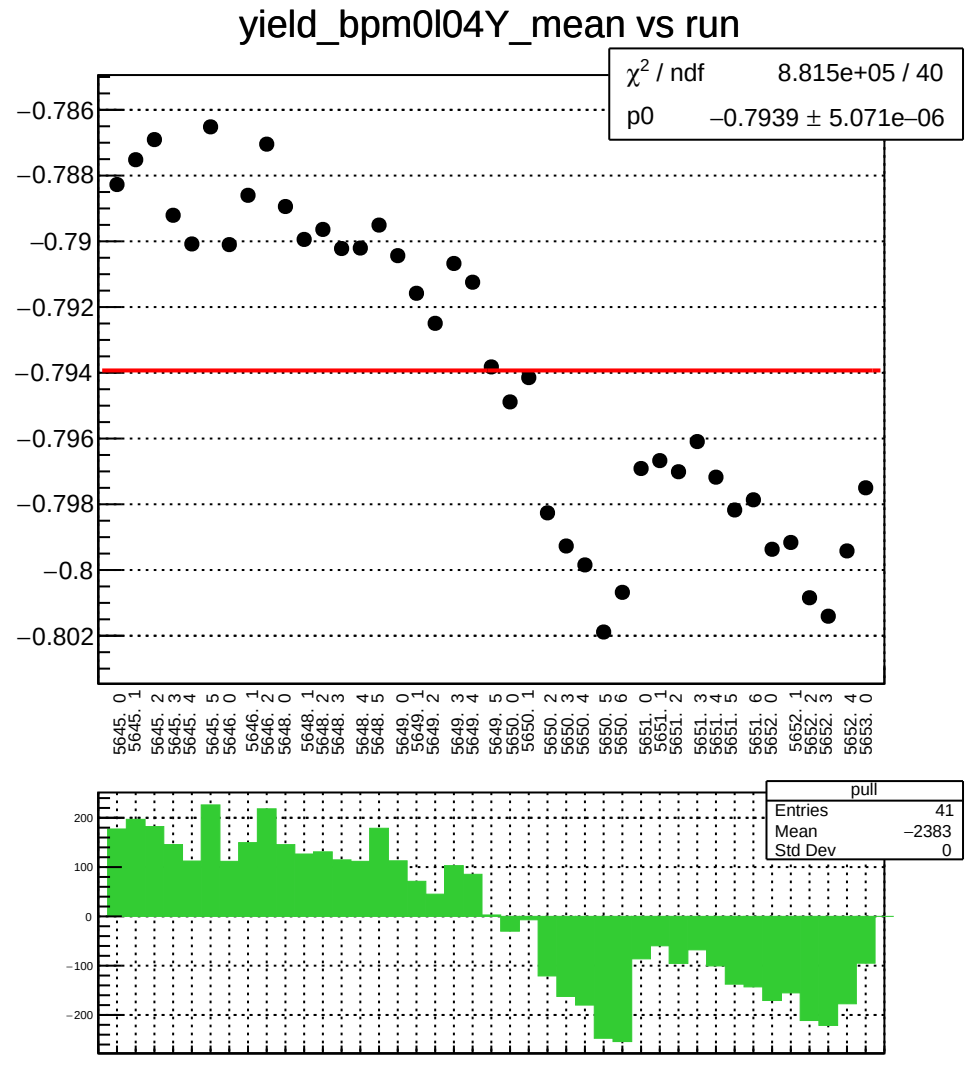

pull1D
Entries 41
Mean 2.893
Std Dev 3.431
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

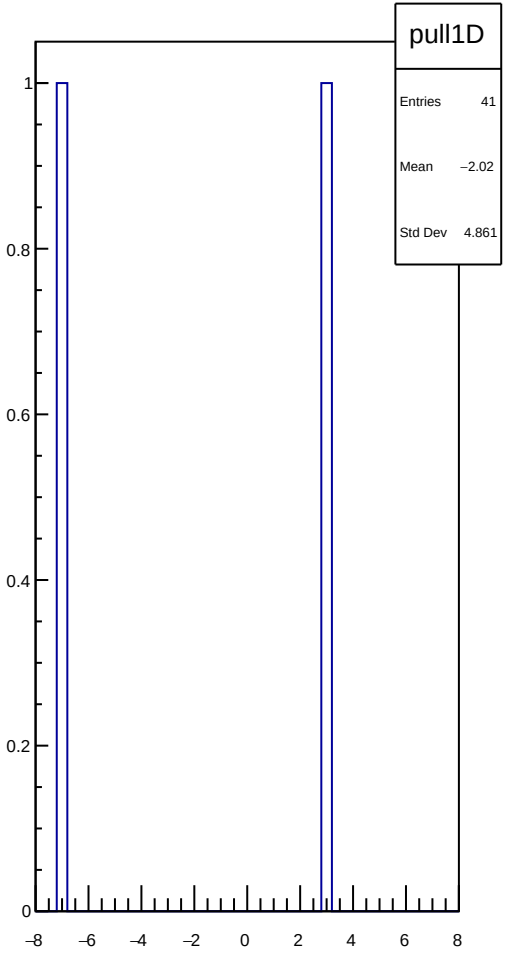

yield_bpm0l03Y_rms vs run
χ² / ndf 4.631e+05 / 40
p0 0.03351 ± 5.858e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

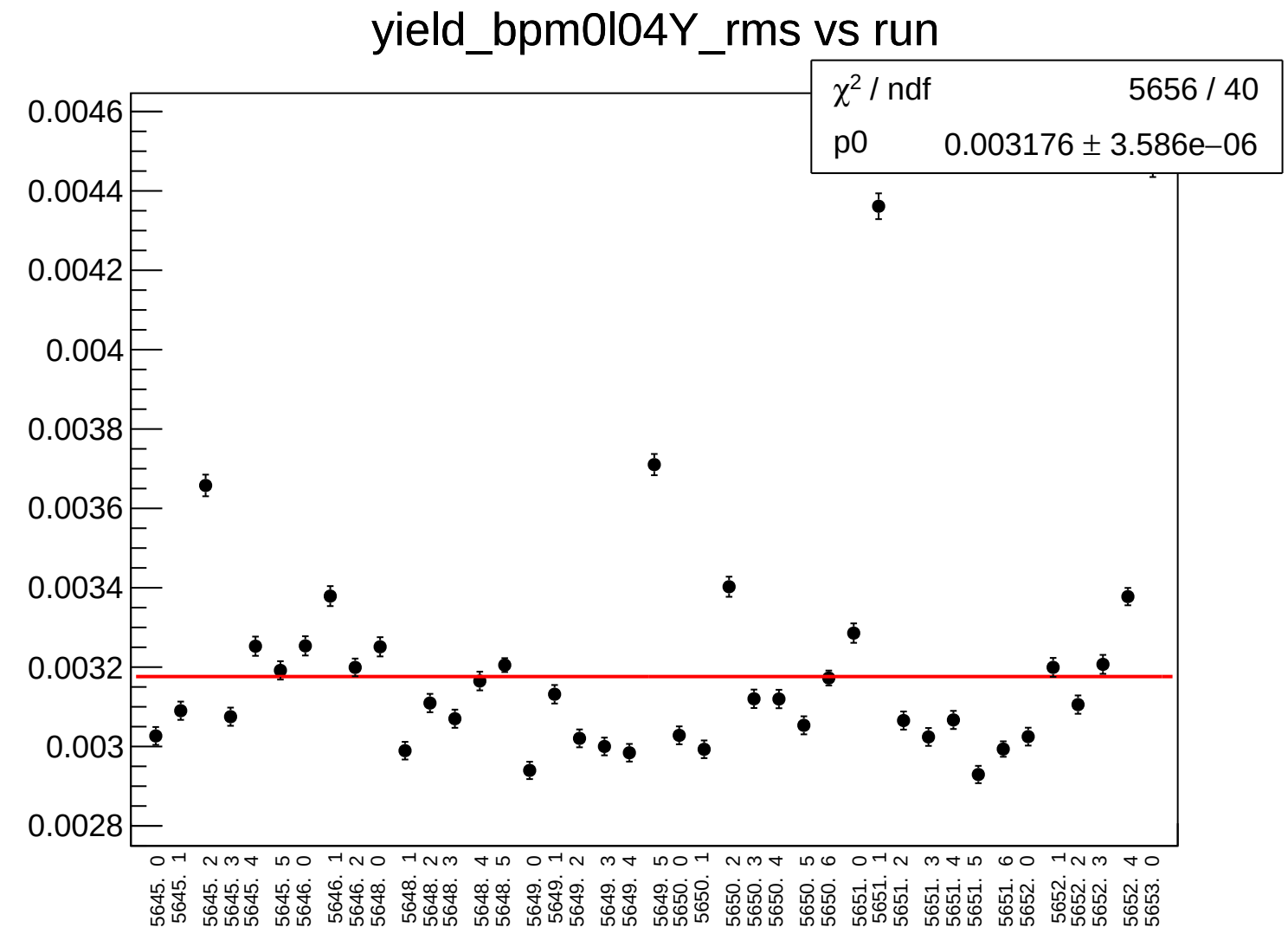

yield_bpm0l04X_mean vs run
χ² / ndf 2.317e+06 / 40
p0 0.7413 ± 2.289e−05
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −247.6
Std Dev 0
400
200
0
−200
−400

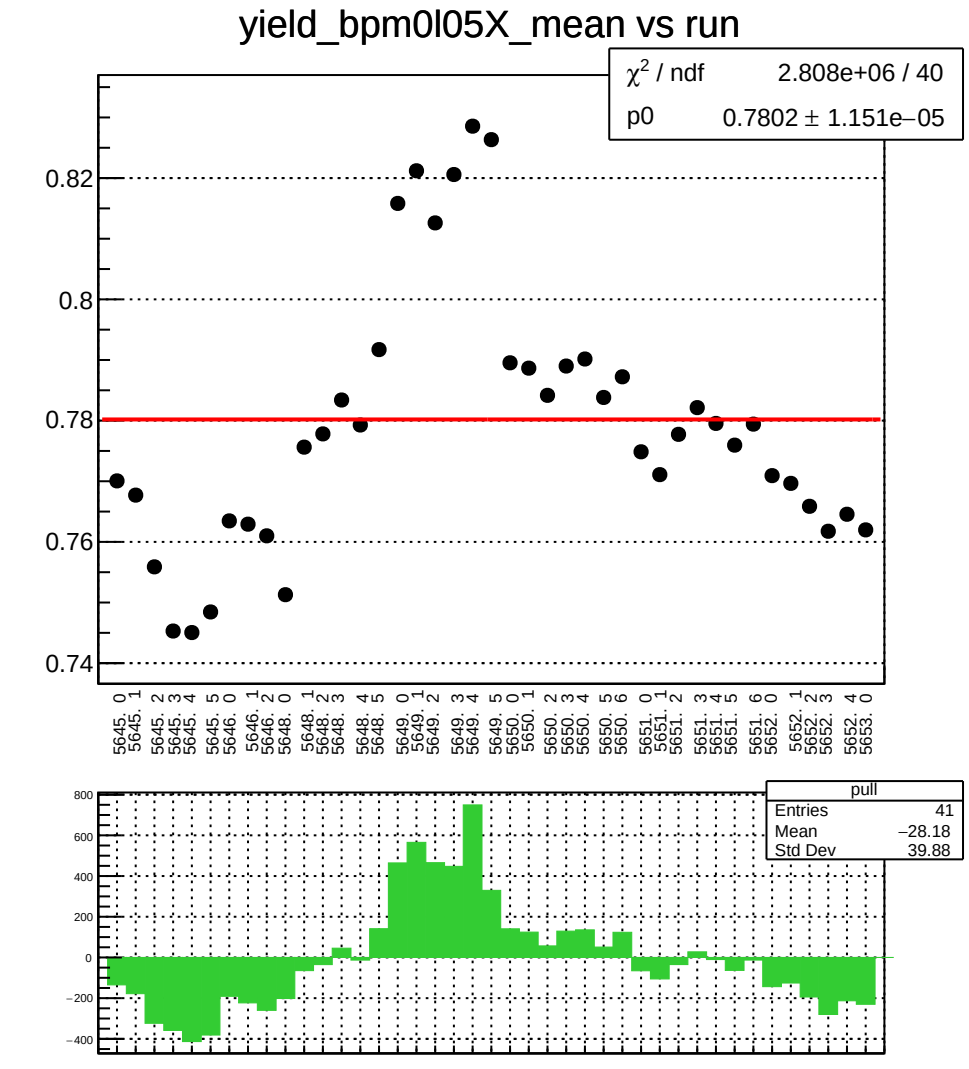

pull1D
Entries 41
Mean 2.957
Std Dev 3.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

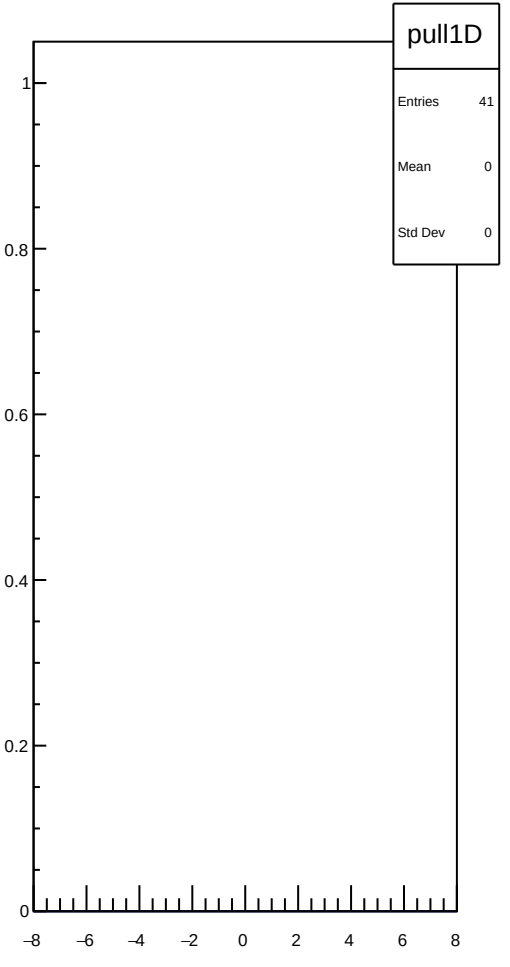

yield_bpm0l04X_rms vs run
χ² / ndf 1.751e+04 / 40
p0 0.01423 ± 1.619e–05
0.022
0.02
0.018
0.016
0.014
0.012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

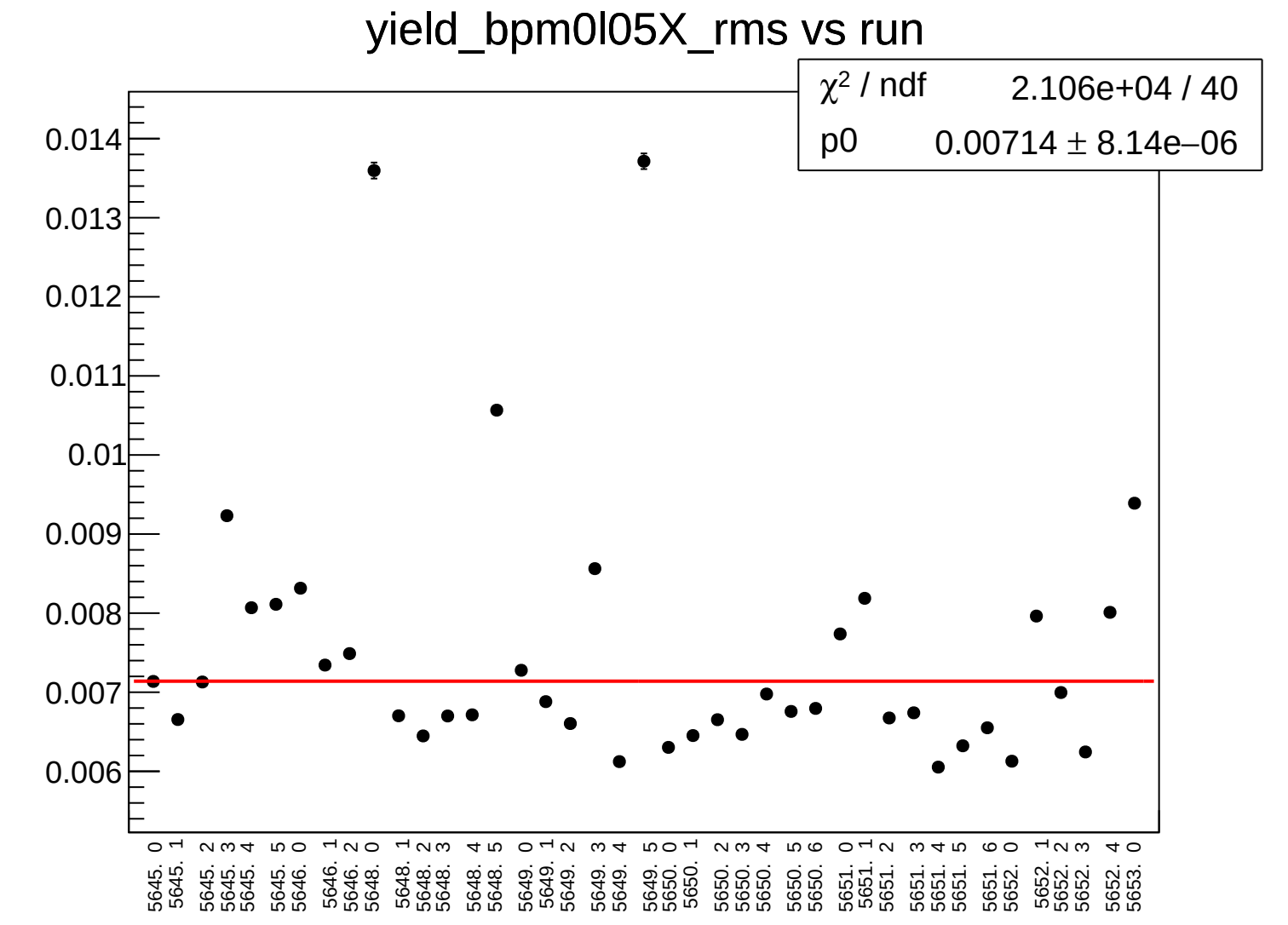

yield_bpm0l04Y_mean vs run
χ² / ndf 8.815e+05 / 40
p0 −0.7939 ± 5.071e−06
−0.786
−0.788
−0.79
−0.792
−0.794
−0.796
−0.798
−0.8
−0.802
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2383
Std Dev 0
200
100
0
−100
−200

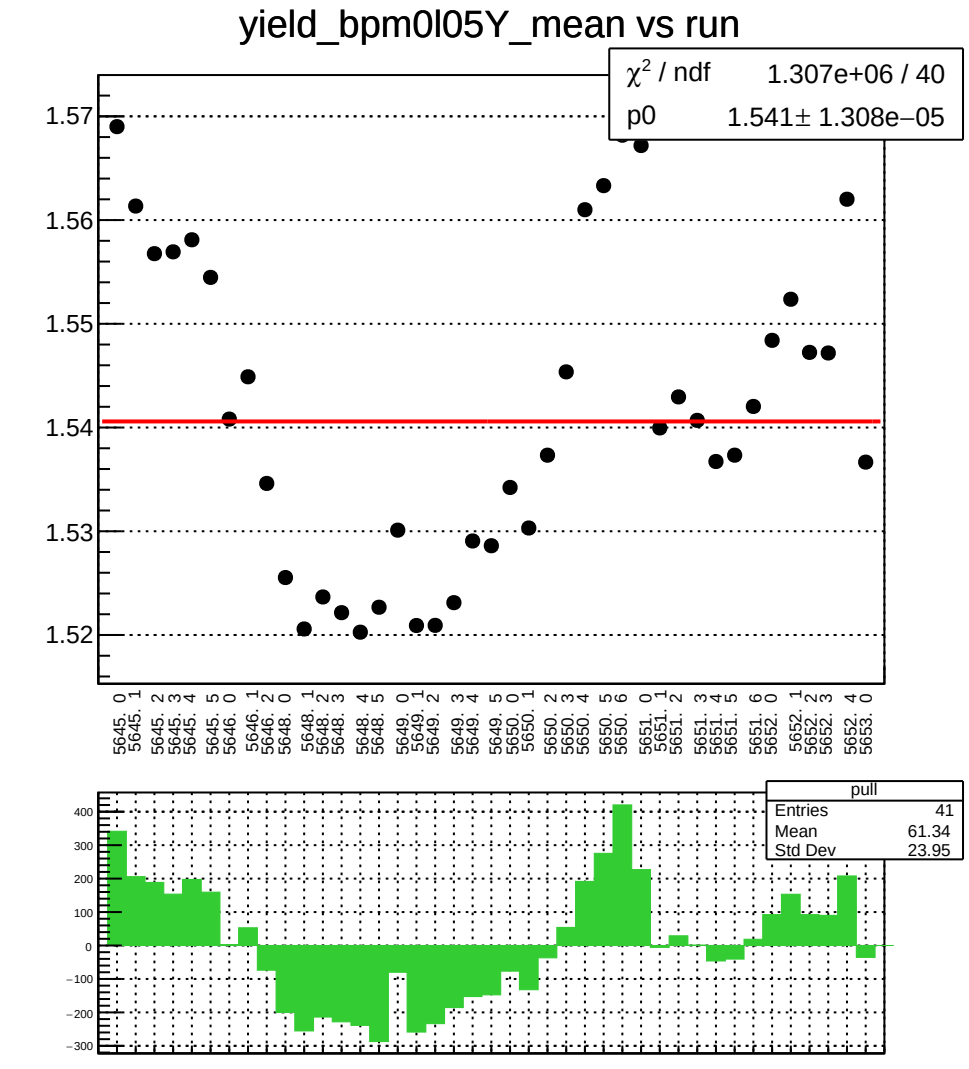

pull1D
Entries 41
Mean −2.02
Std Dev 4.861
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

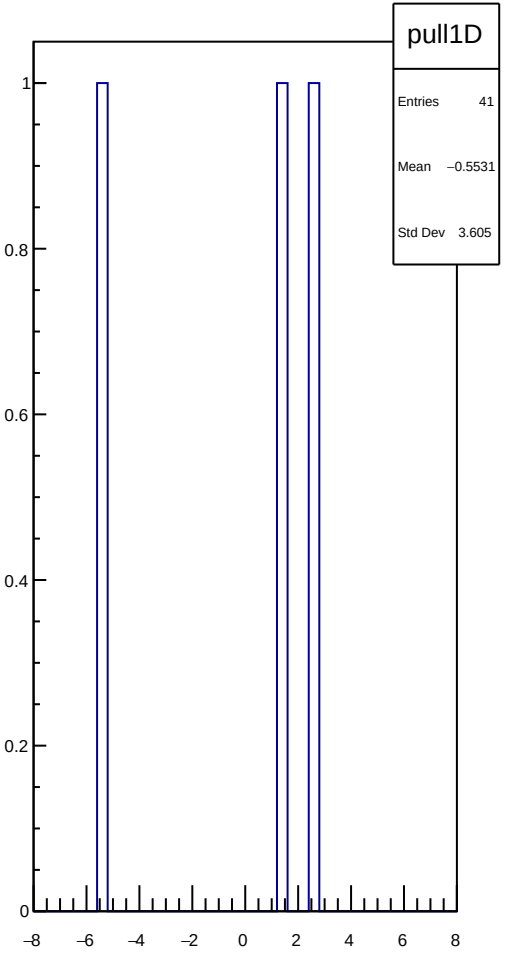

yield_bpm0l04Y_rms vs run
χ² / ndf 5656 / 40
p0 0.003176 ± 3.586e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

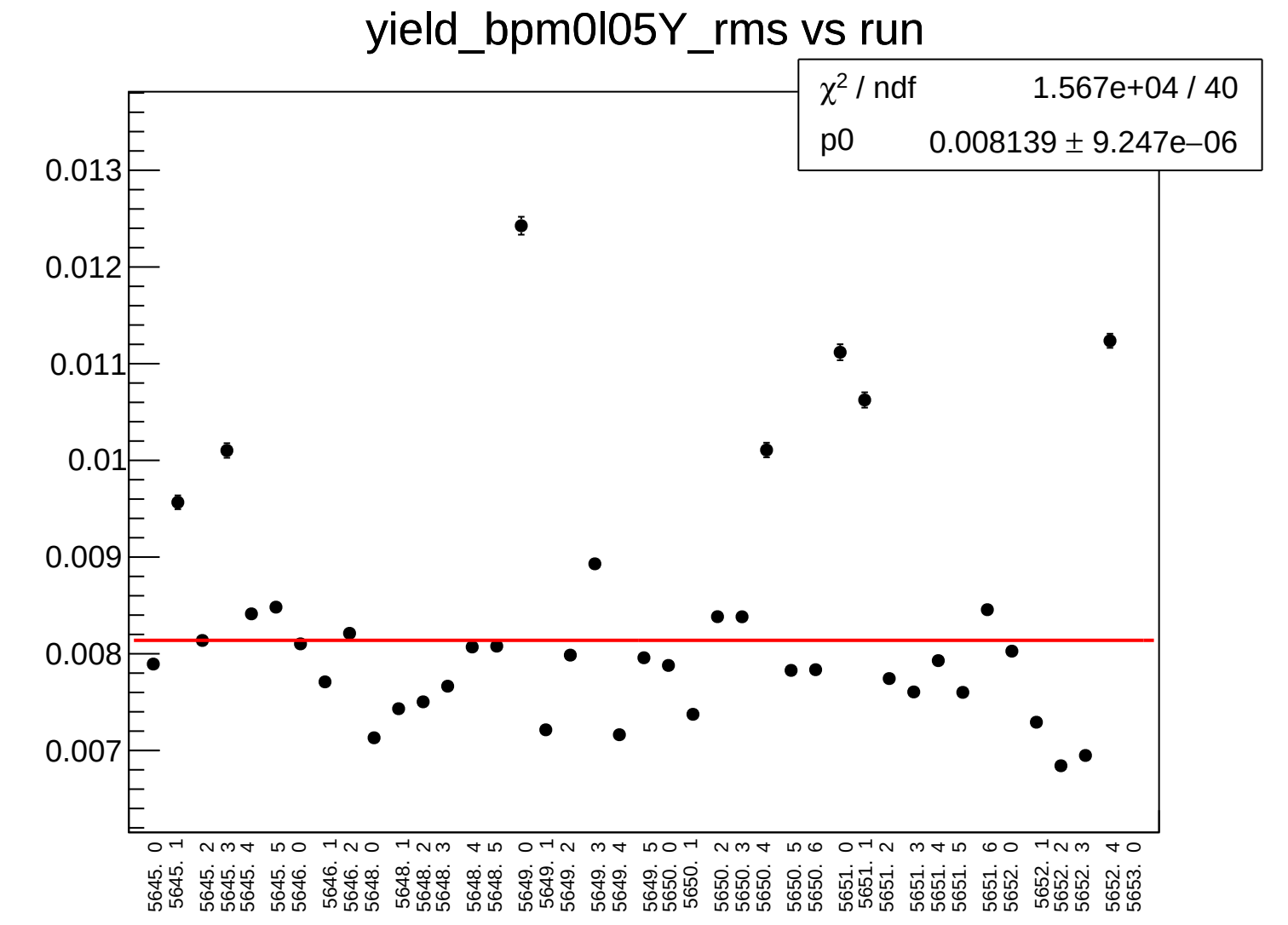

yield_bpm0l05X_mean vs run
χ² / ndf 2.808e+06 / 40
p0 0.7802 ± 1.151e−05
0.82
0.8
0.78
0.76
0.74
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −28.18
Std Dev 39.88
800
600
400
200
0
−200
−400

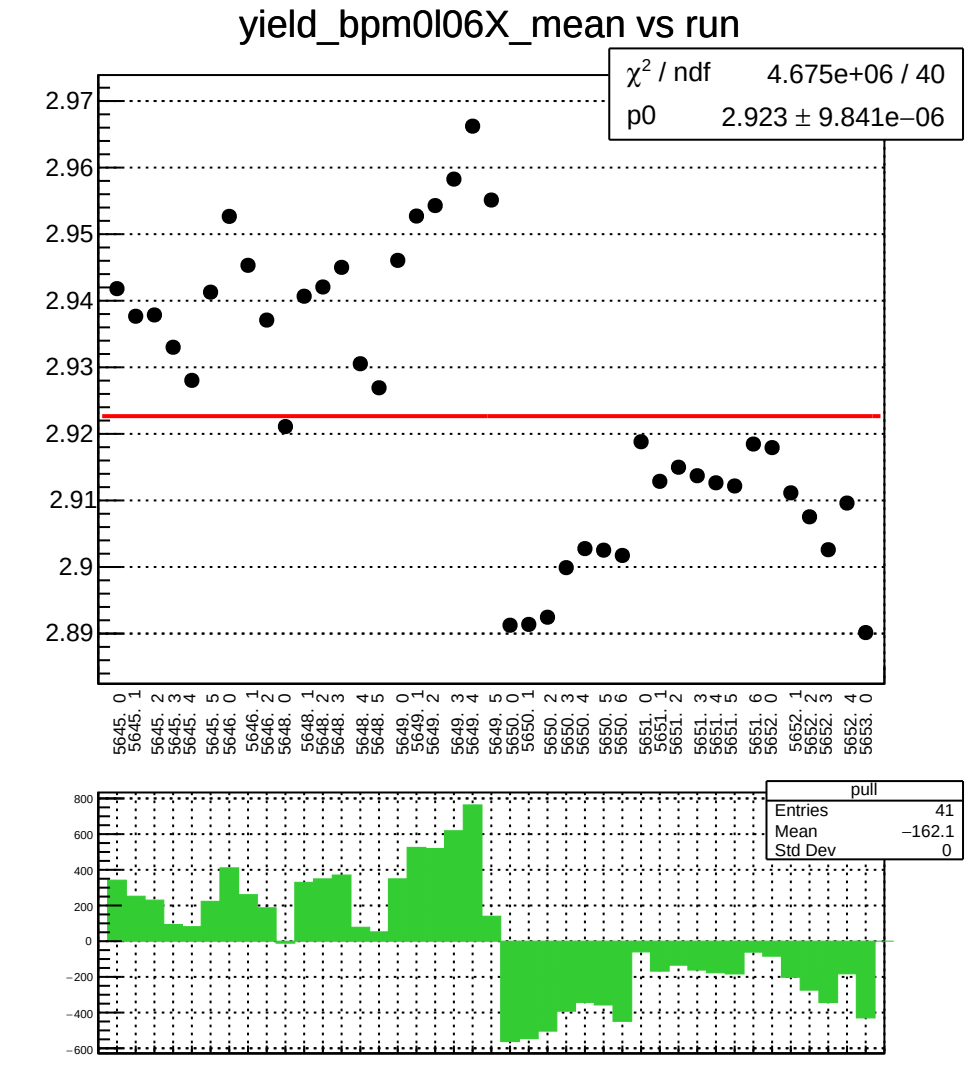

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

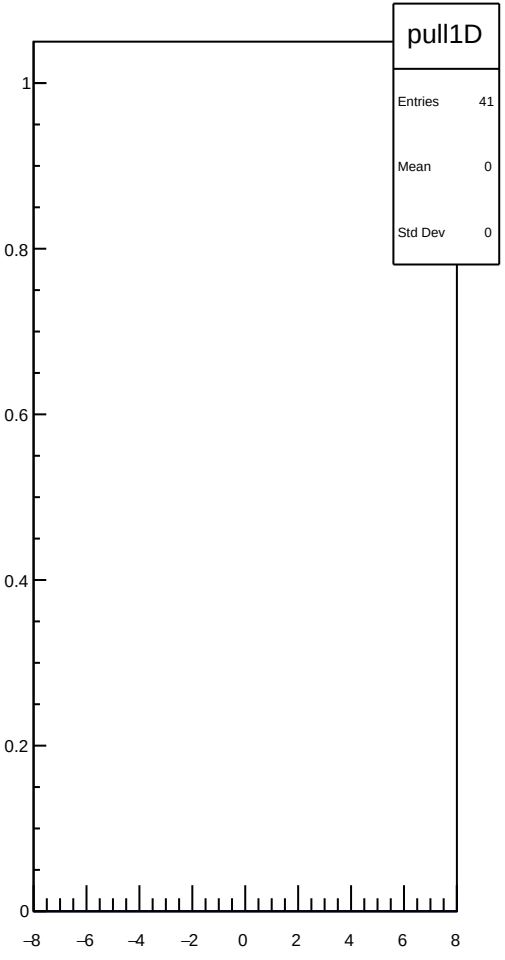

yield_bpm0l05X_rms vs run
χ² / ndf 2.106e+04 / 40
p0 0.00714 ± 8.14e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

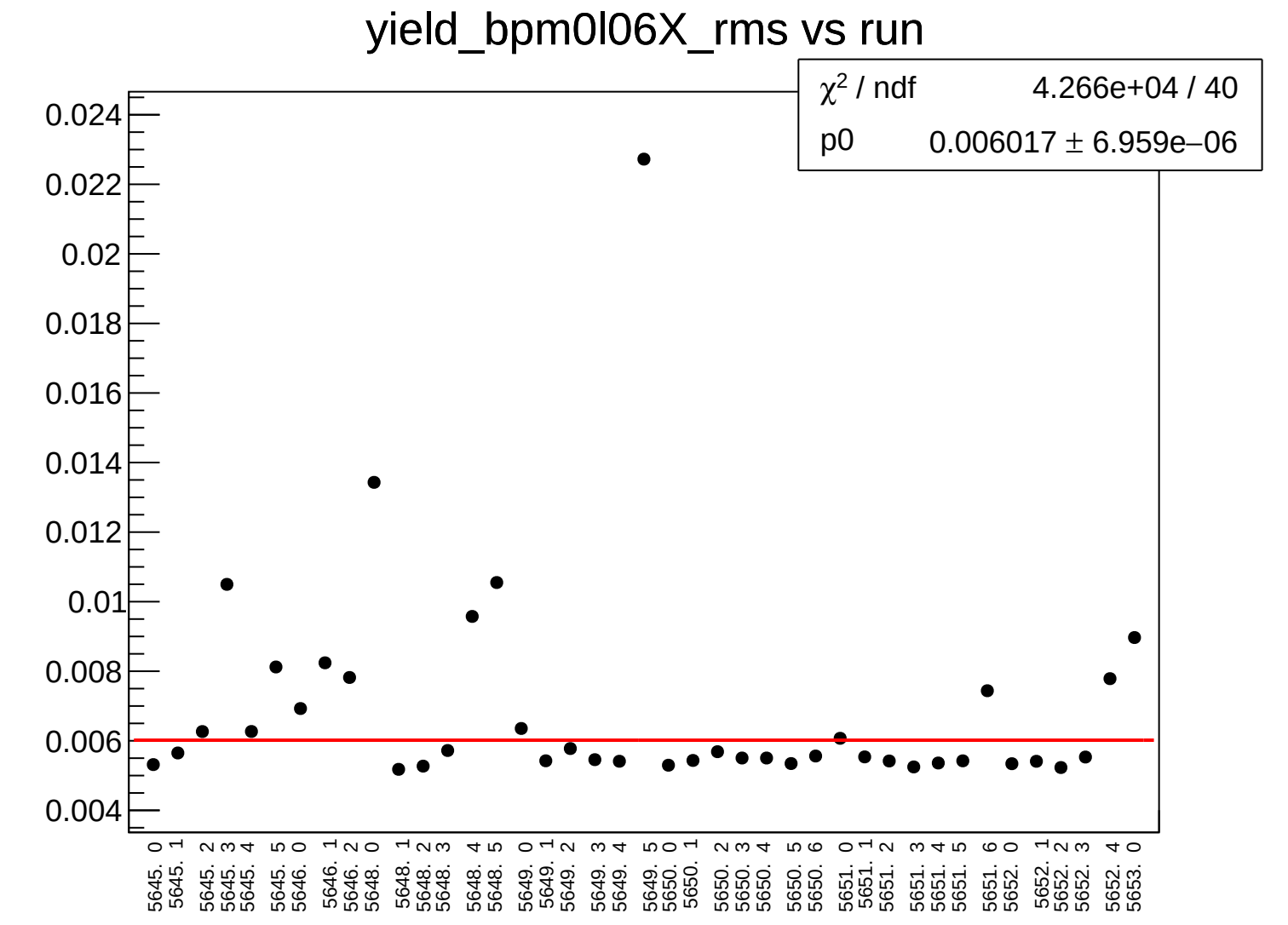

yield_bpm0l05Y_mean vs run
χ² / ndf 1.307e+06 / 40
p0 1.541± 1.308e−05
1.57
1.56
1.55
1.54
1.53
1.52
pull
Entries 41
Mean 61.34
Std Dev 23.95
400
300
200
100
0
−100
−200
−300

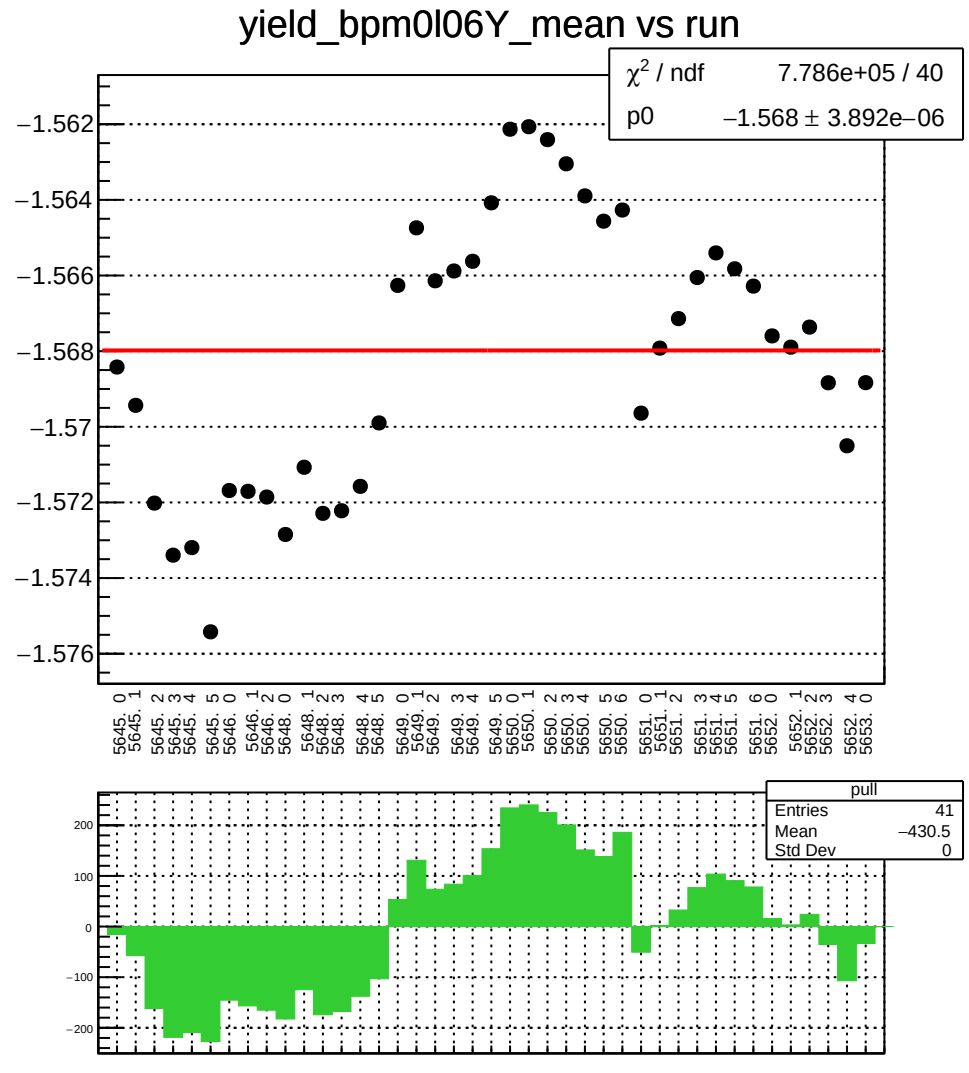

pull1D
Entries 41
Mean −0.5531
Std Dev 3.605
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

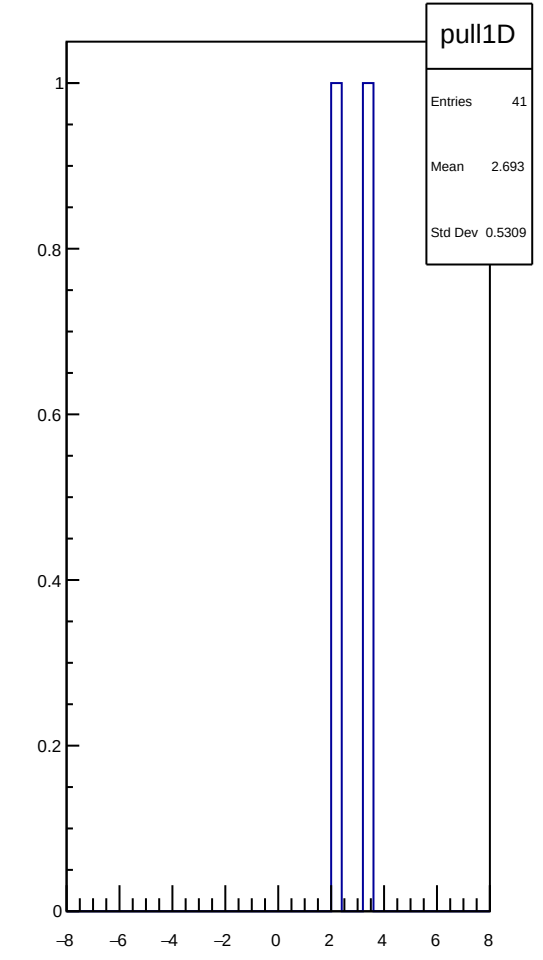

yield_bpm0l05Y_rms vs run
χ² / ndf 1.567e+04 / 40
p0 0.008139 ± 9.247e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

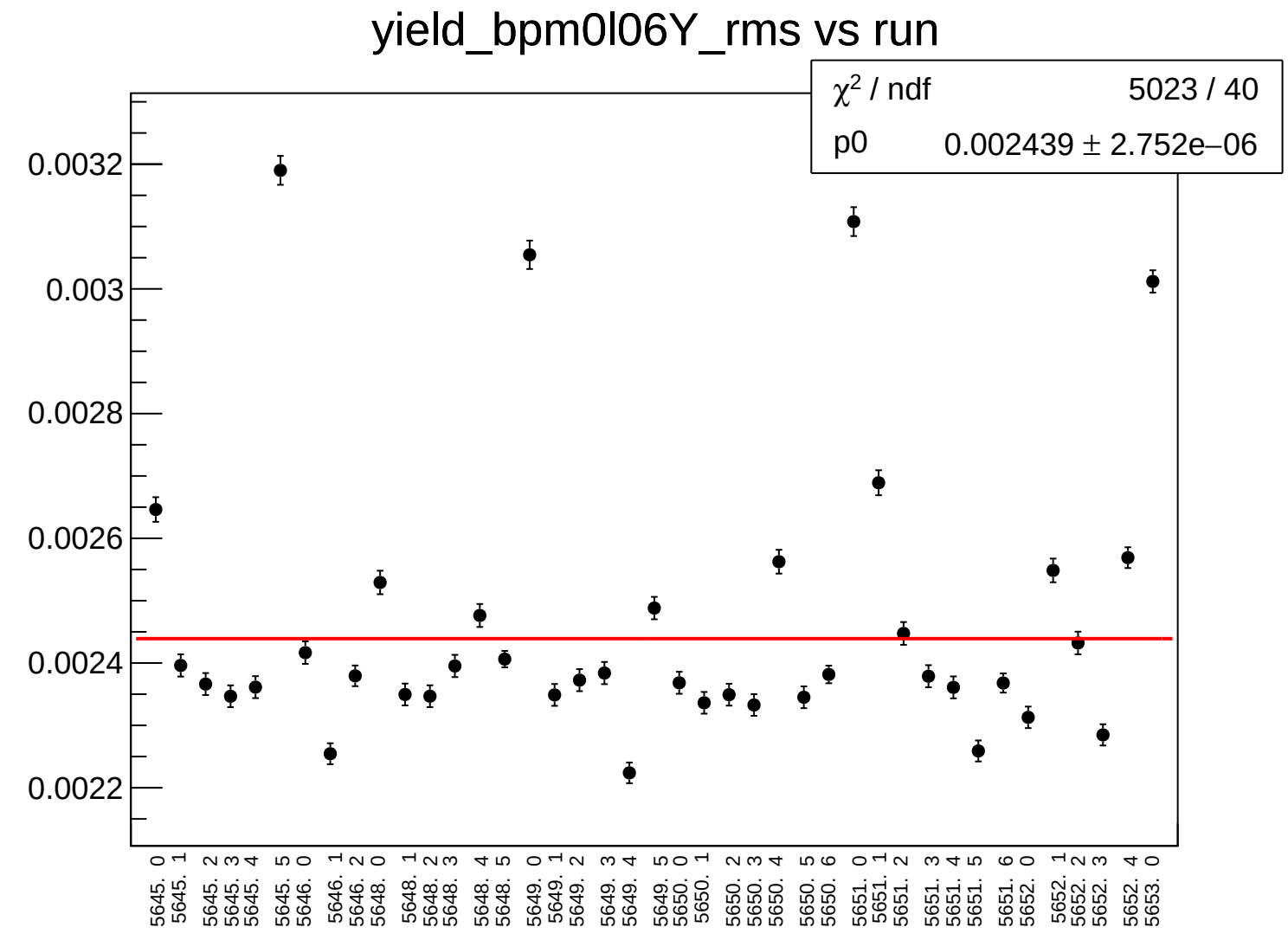

yield_bpm0l06X_mean vs run
χ² / ndf 4.675e+06 / 40
p0 2.923 ± 9.841e−06
pull
Entries 41
Mean −162.1
Std Dev 0

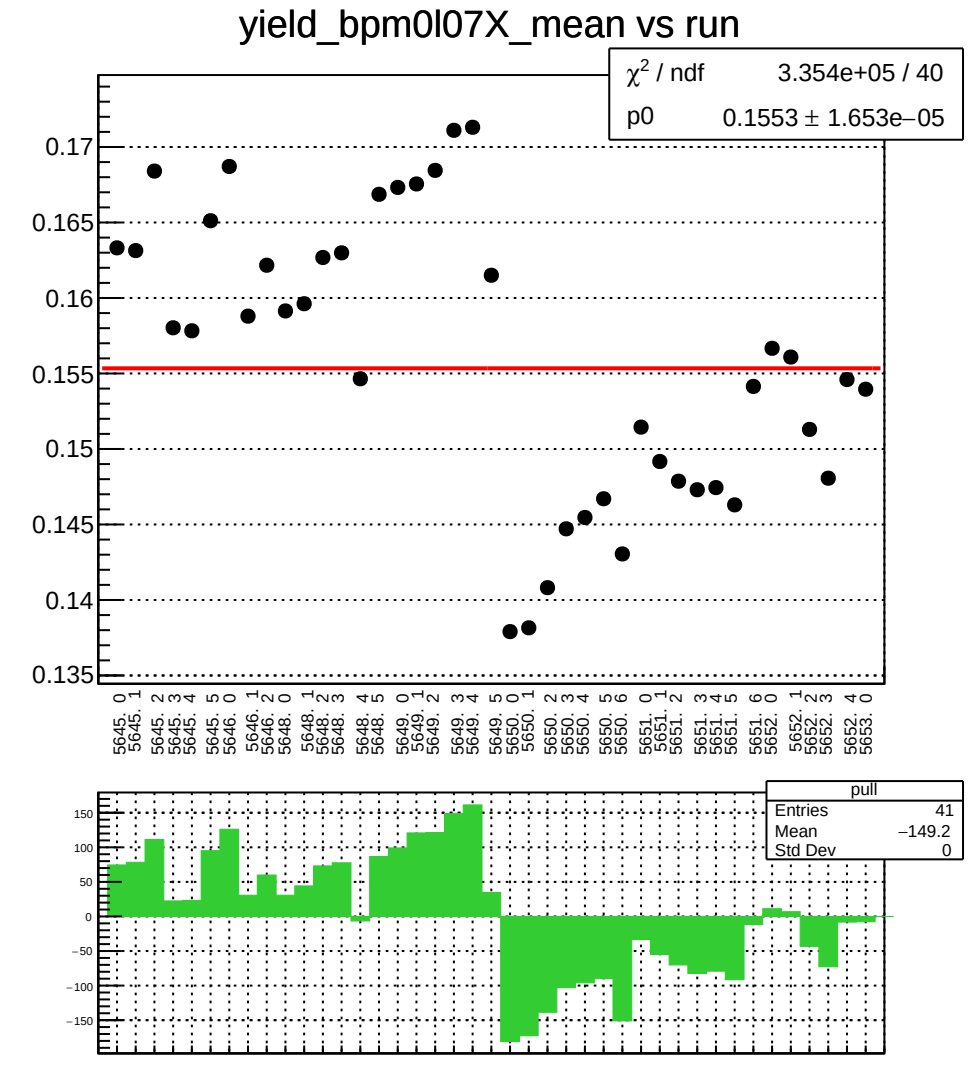

pull1D
Entries 41
Mean 0
Std Dev 0

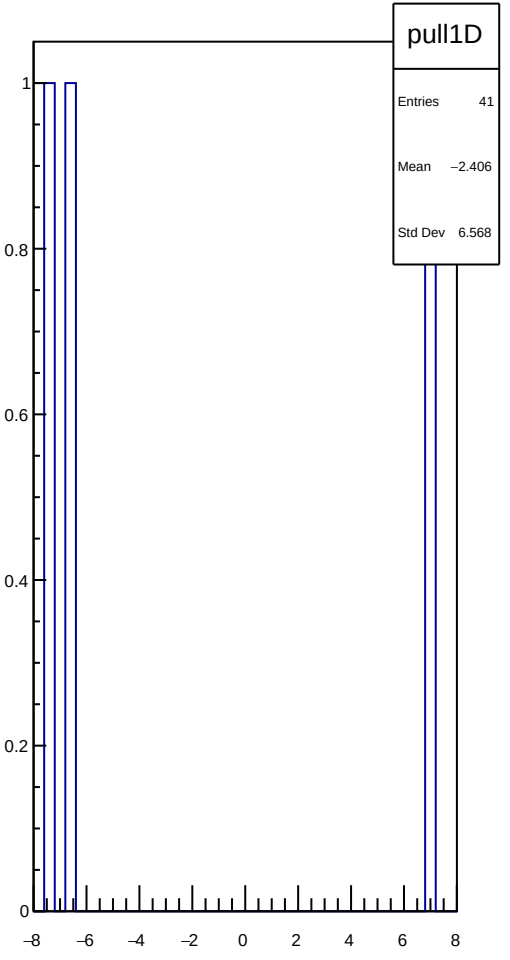

yield_bpm0l06X_rms vs run
χ² / ndf 4.266e+04 / 40
p0 0.006017 ± 6.959e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

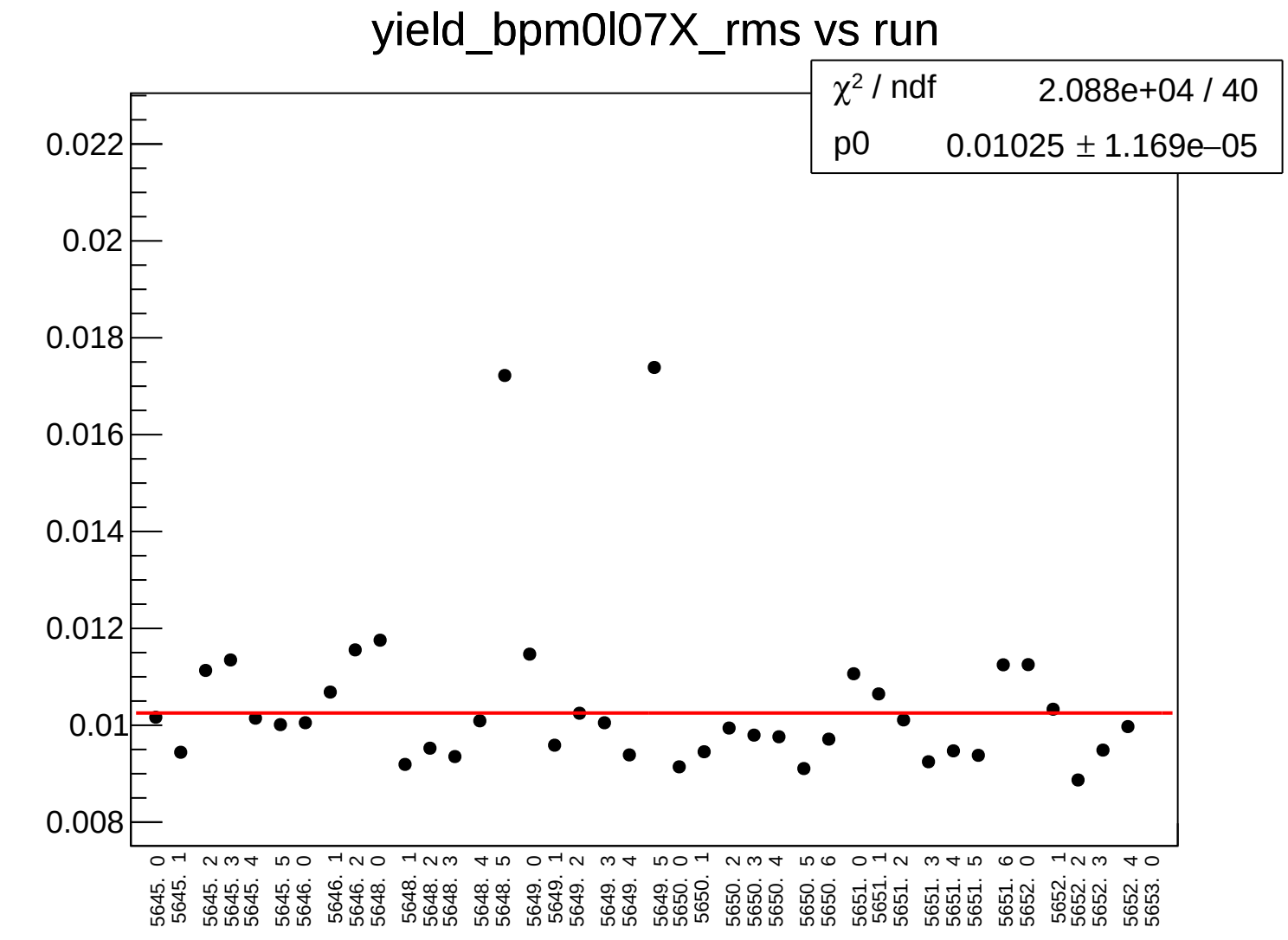

yield_bpm0l06Y_mean vs run
χ² / ndf 7.786e+05 / 40
p0 −1.568 ± 3.892e−06
−1.562
−1.564
−1.566
−1.568
−1.57
−1.572
−1.574
−1.576
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −430.5
Std Dev 0
200
100
0
−100
−200

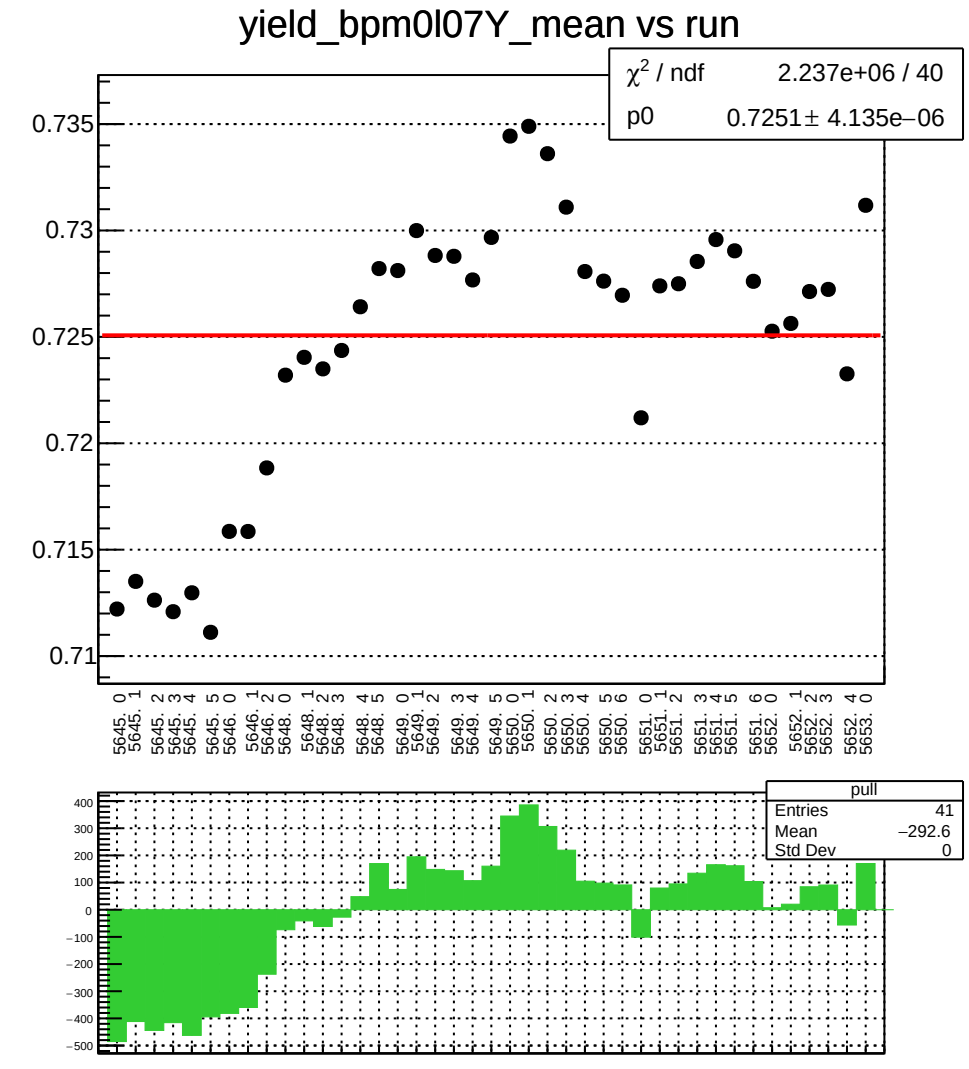

pull1D
Entries 41
Mean 2.693
Std Dev 0.5309
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

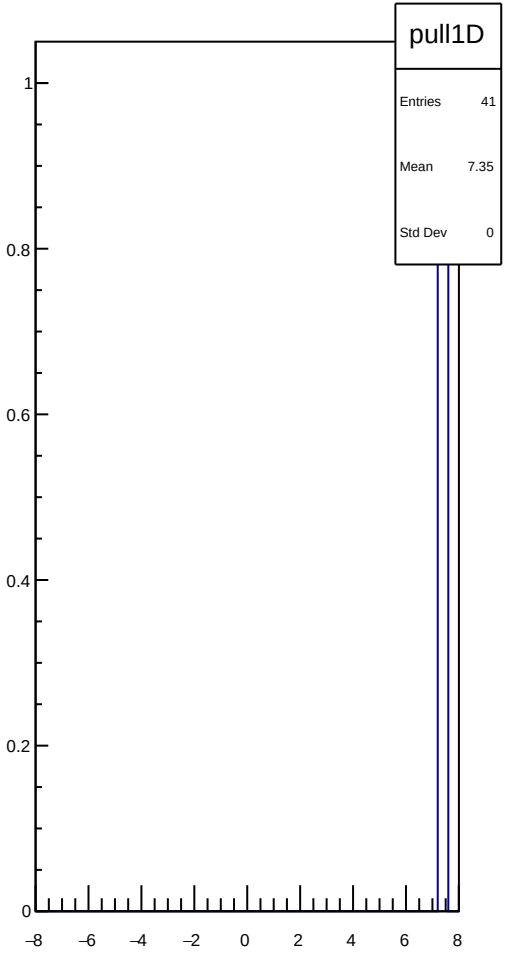

yield_bpm0l06Y_rms vs run
χ² / ndf 5023 / 40
p0 0.002439 ± 2.752e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

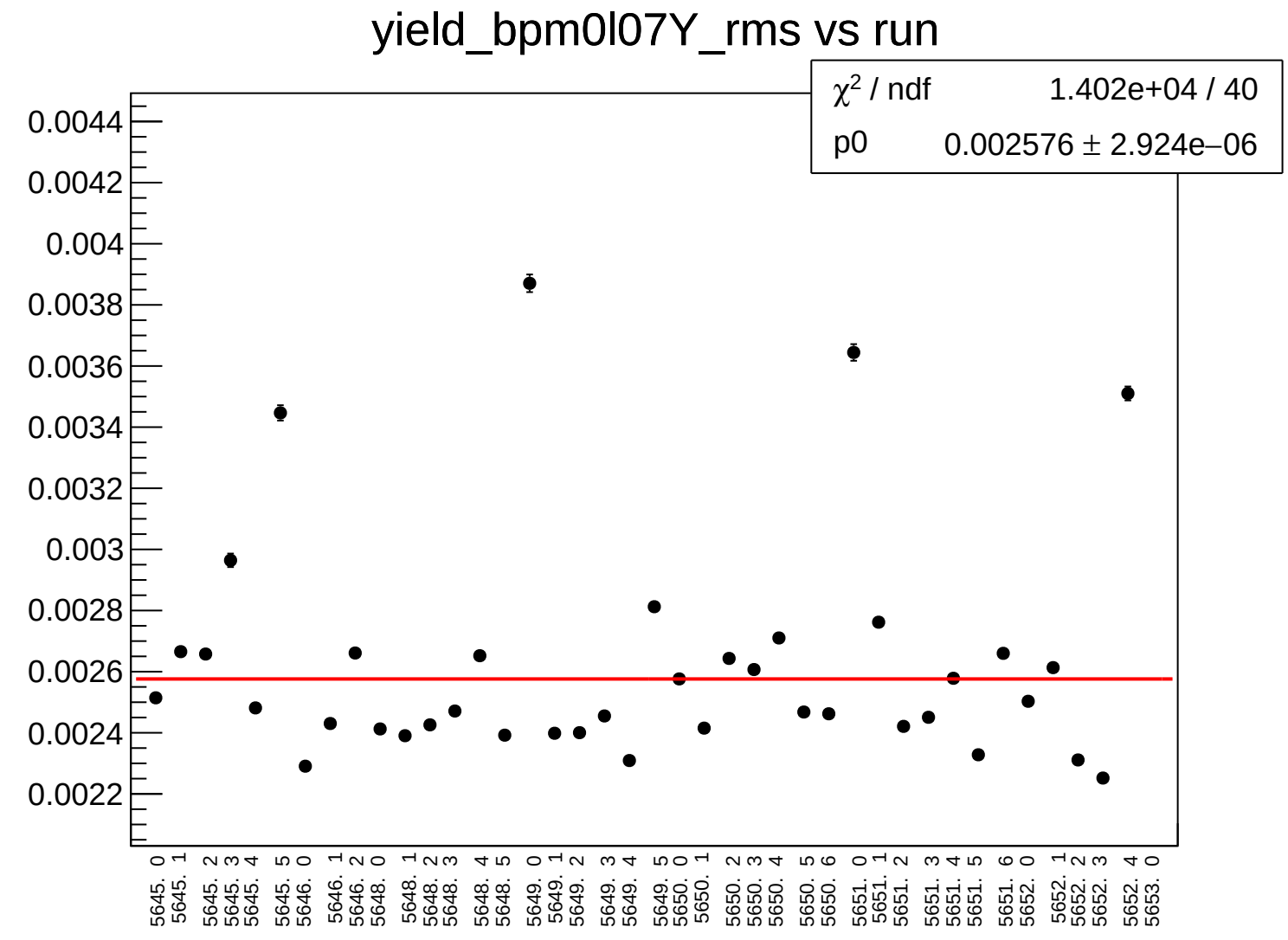

yield_bpm0l07X_mean vs run
χ² / ndf 3.354e+05 / 40
p0 0.1553 ± 1.653e−05
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −149.2
Std Dev 0
150
100
50
0
−50
−100
−150

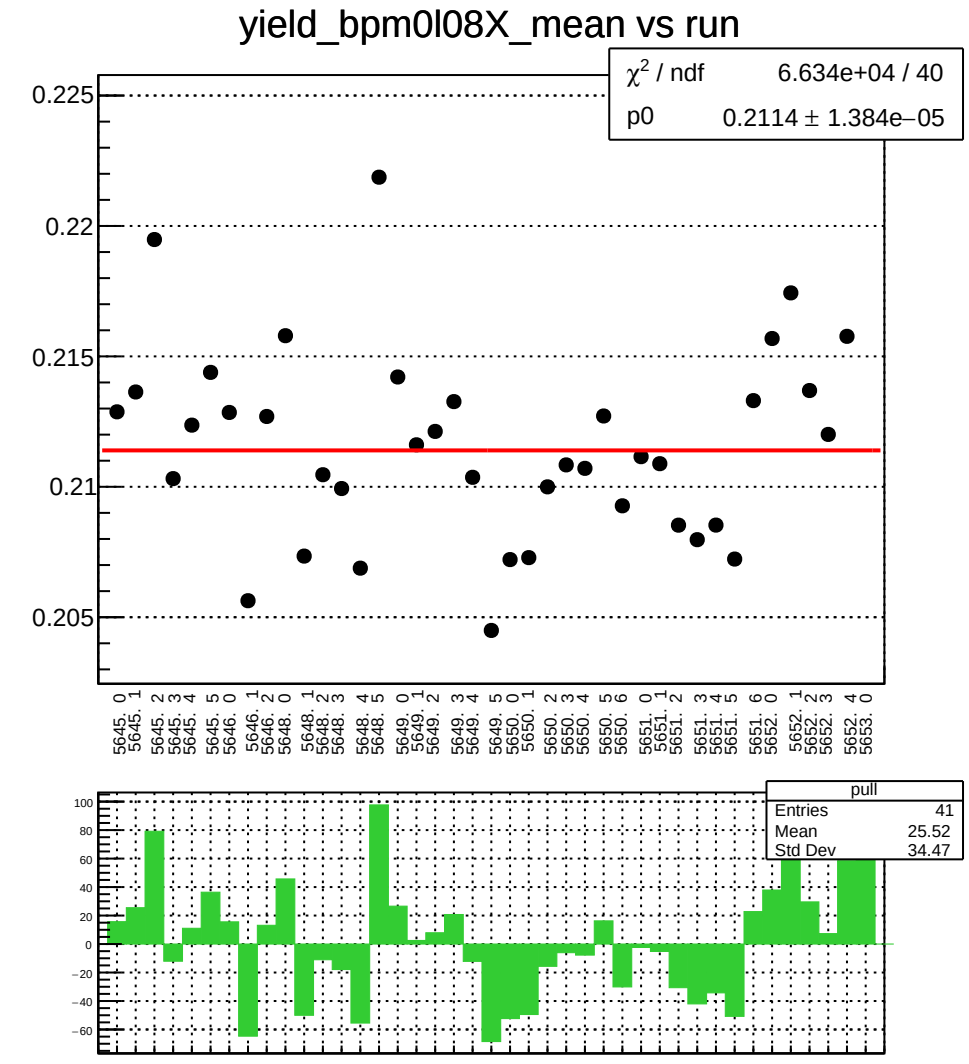

pull1D
Entries 41
Mean −2.406
Std Dev 6.568
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

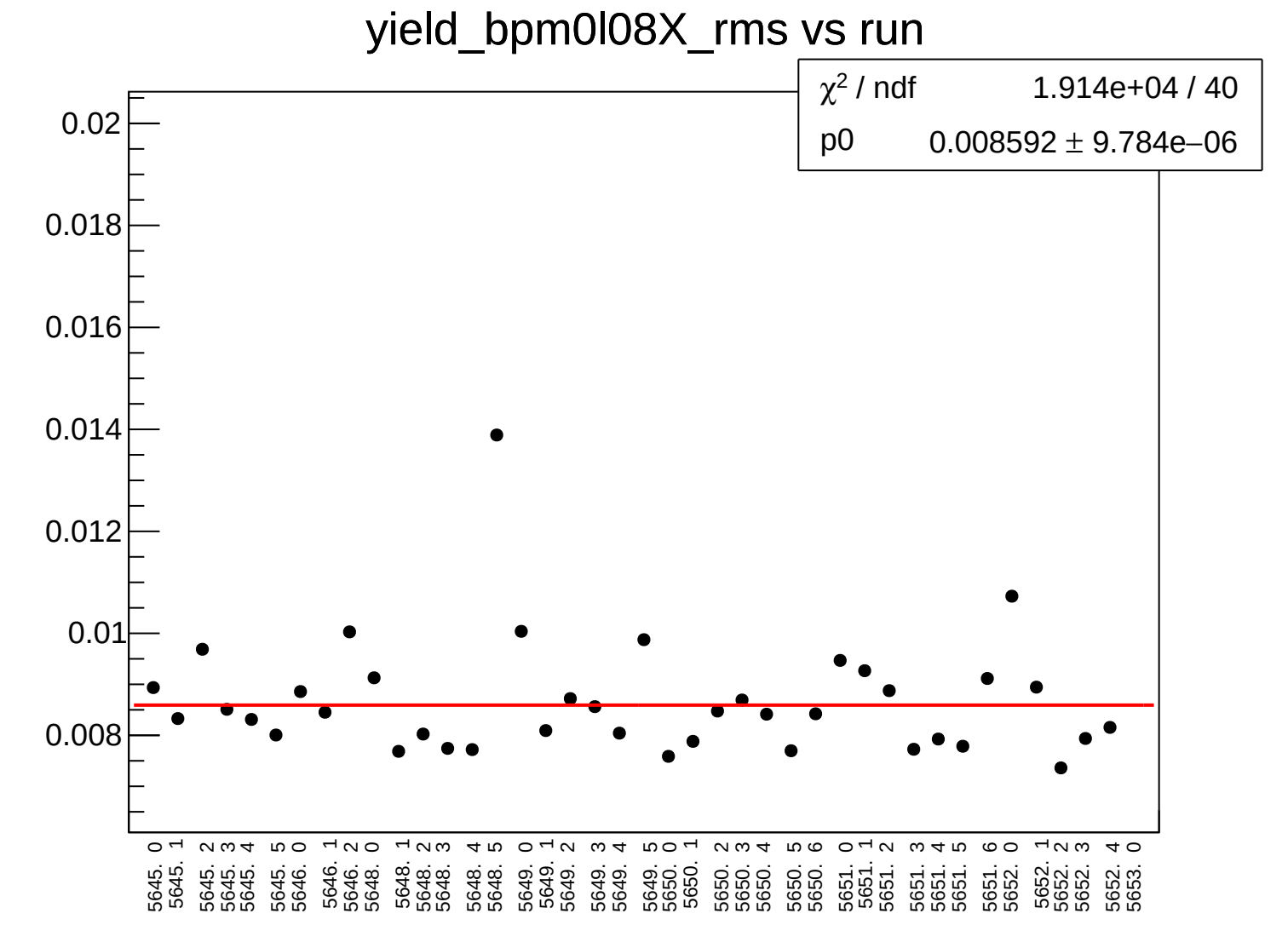

yield_bpm0l07X_rms vs run
χ² / ndf 2.088e+04 / 40
p0 0.01025 ± 1.169e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

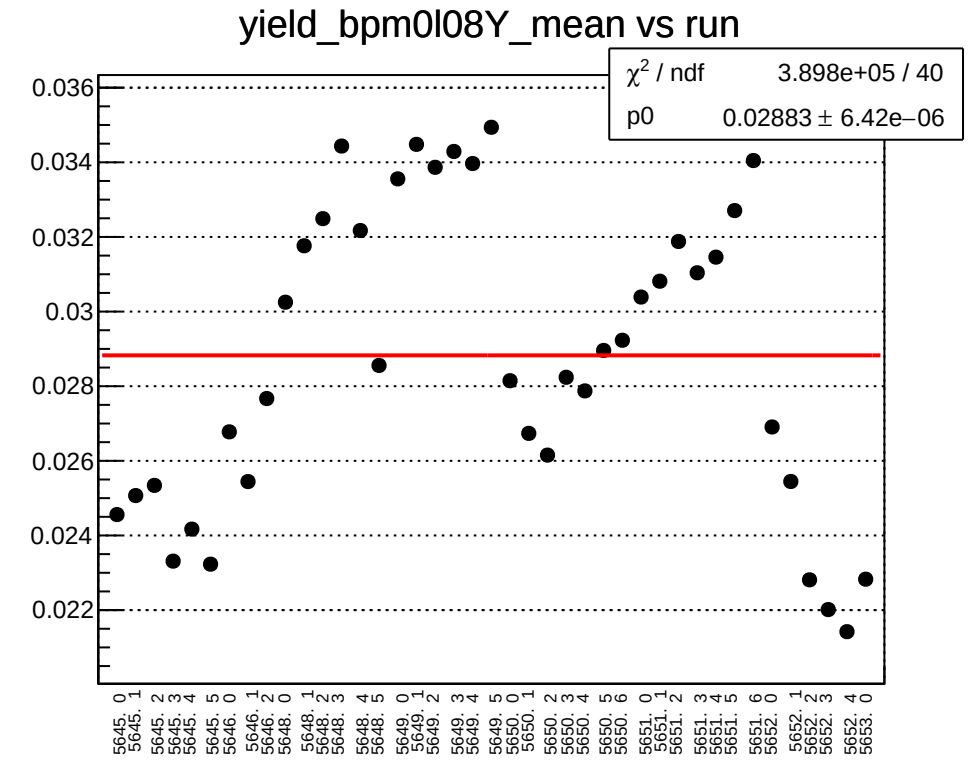

yield_bpm0l07Y_mean vs run
χ² / ndf 2.237e+06 / 40
p0 0.7251 ± 4.135e−06
0.735
0.73
0.725
0.72
0.715
0.71
pull
Entries 41
Mean −292.6
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

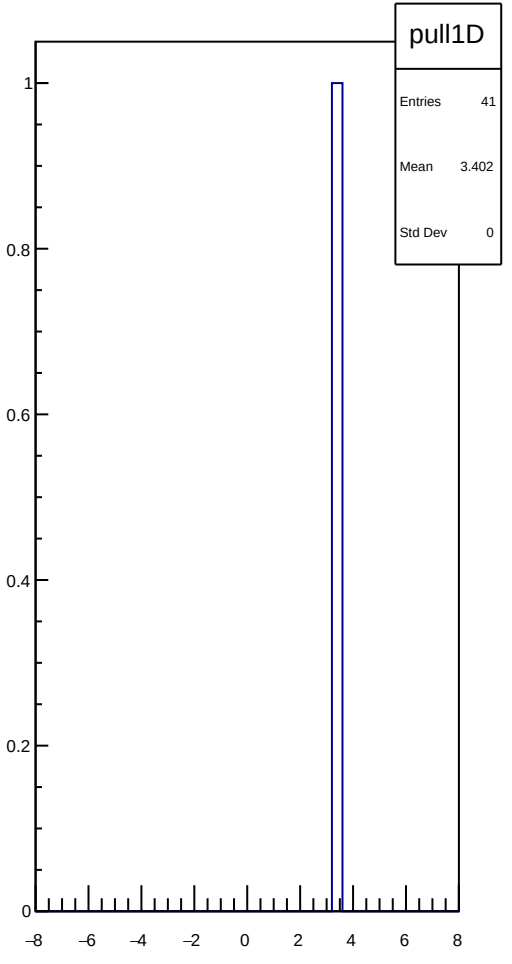

pull1D
Entries 41
Mean 7.35
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

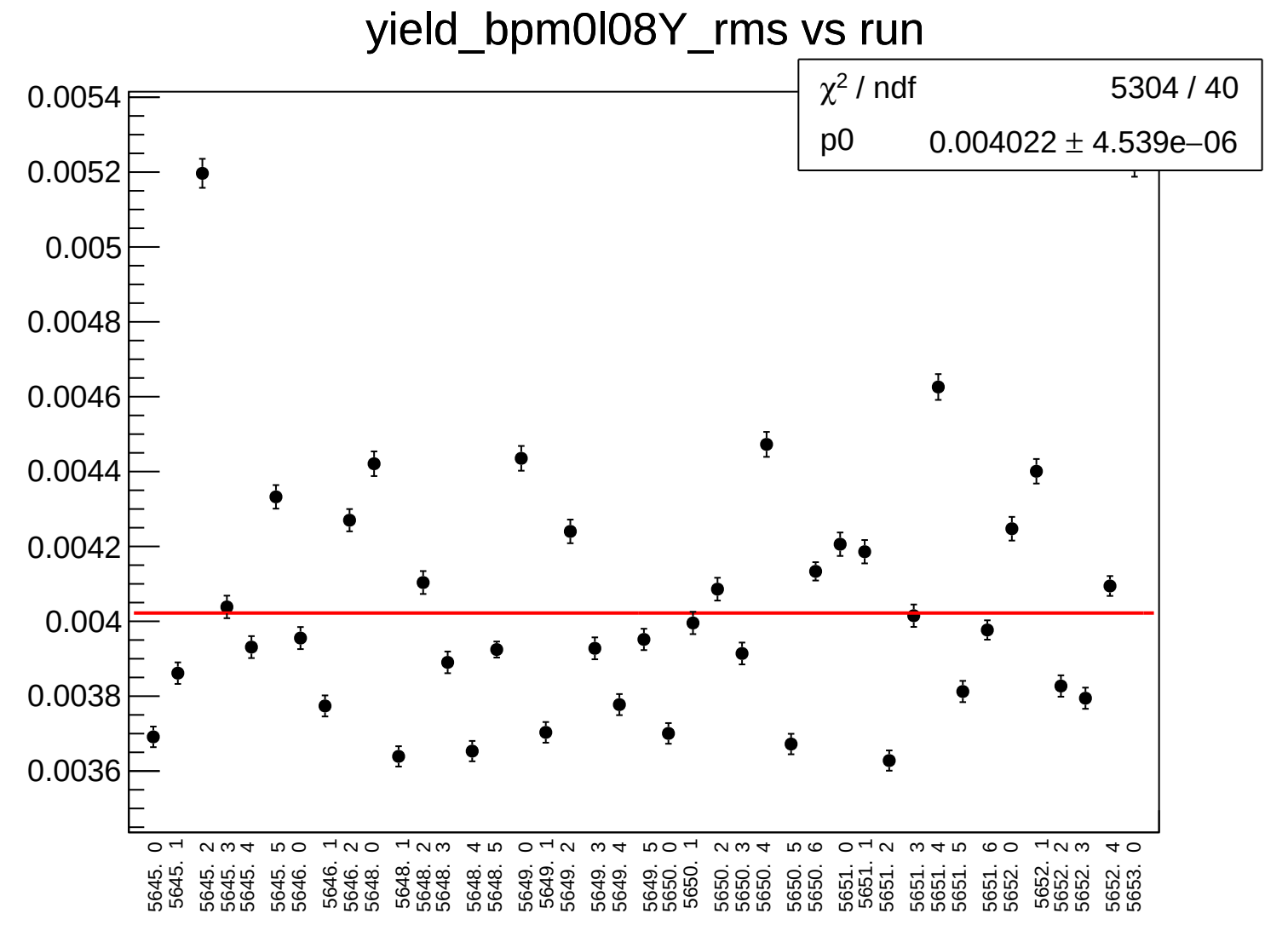

yield_bpm0l07Y_rms vs run
χ² / ndf 1.402e+04 / 40
p0 0.002576 ± 2.924e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

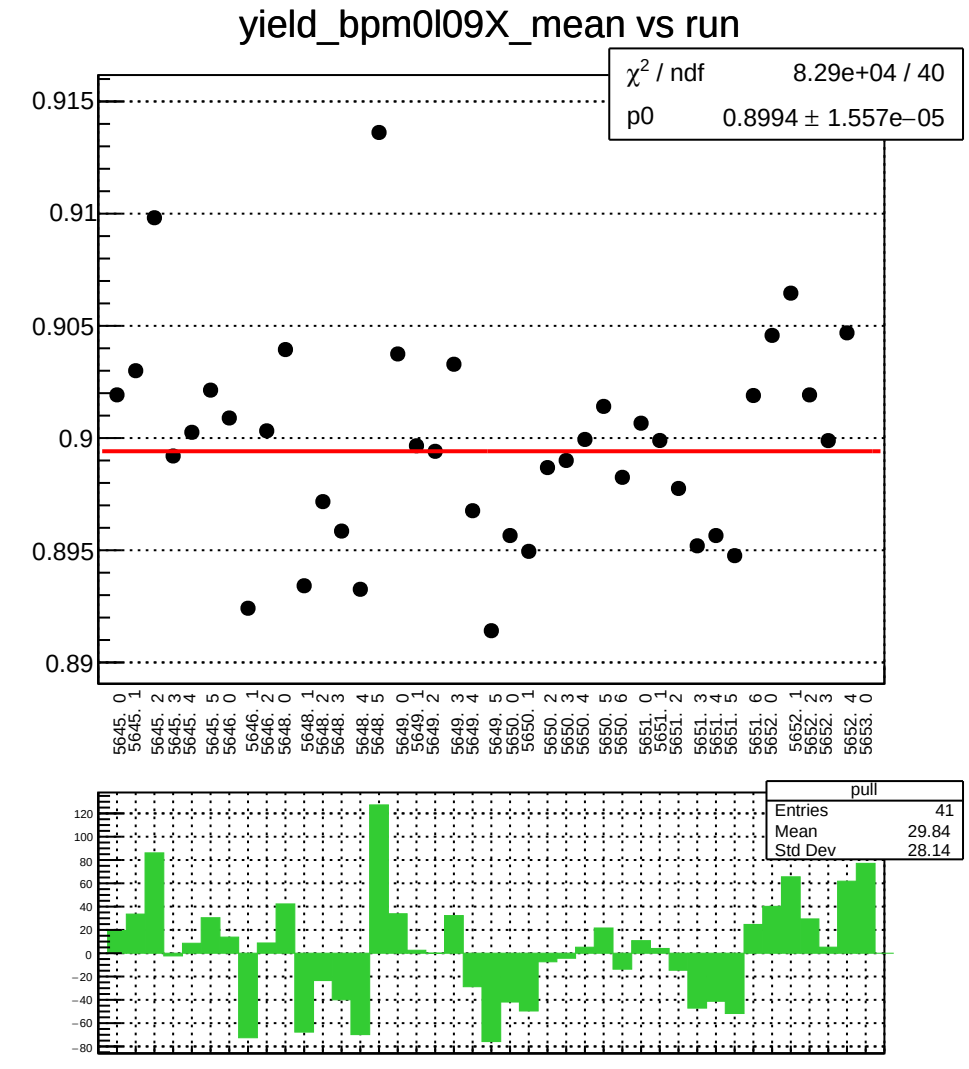

yield_bpm0l08X_mean vs run
χ² / ndf 6.634e+04 / 40
p0 0.2114 ± 1.384e−05
0.225
0.22
0.215
0.21
0.205
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 25.52
Std Dev 34.47
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 41
Mean −0.5249
Std Dev 5.984
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

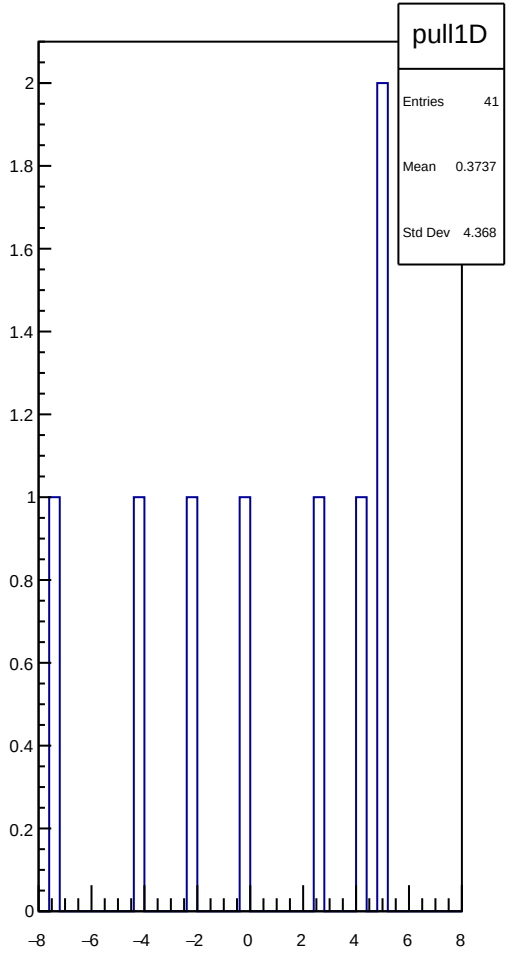

yield_bpm0l08X_rms vs run
χ² / ndf 1.914e+04 / 40
p0 0.008592 ± 9.784e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

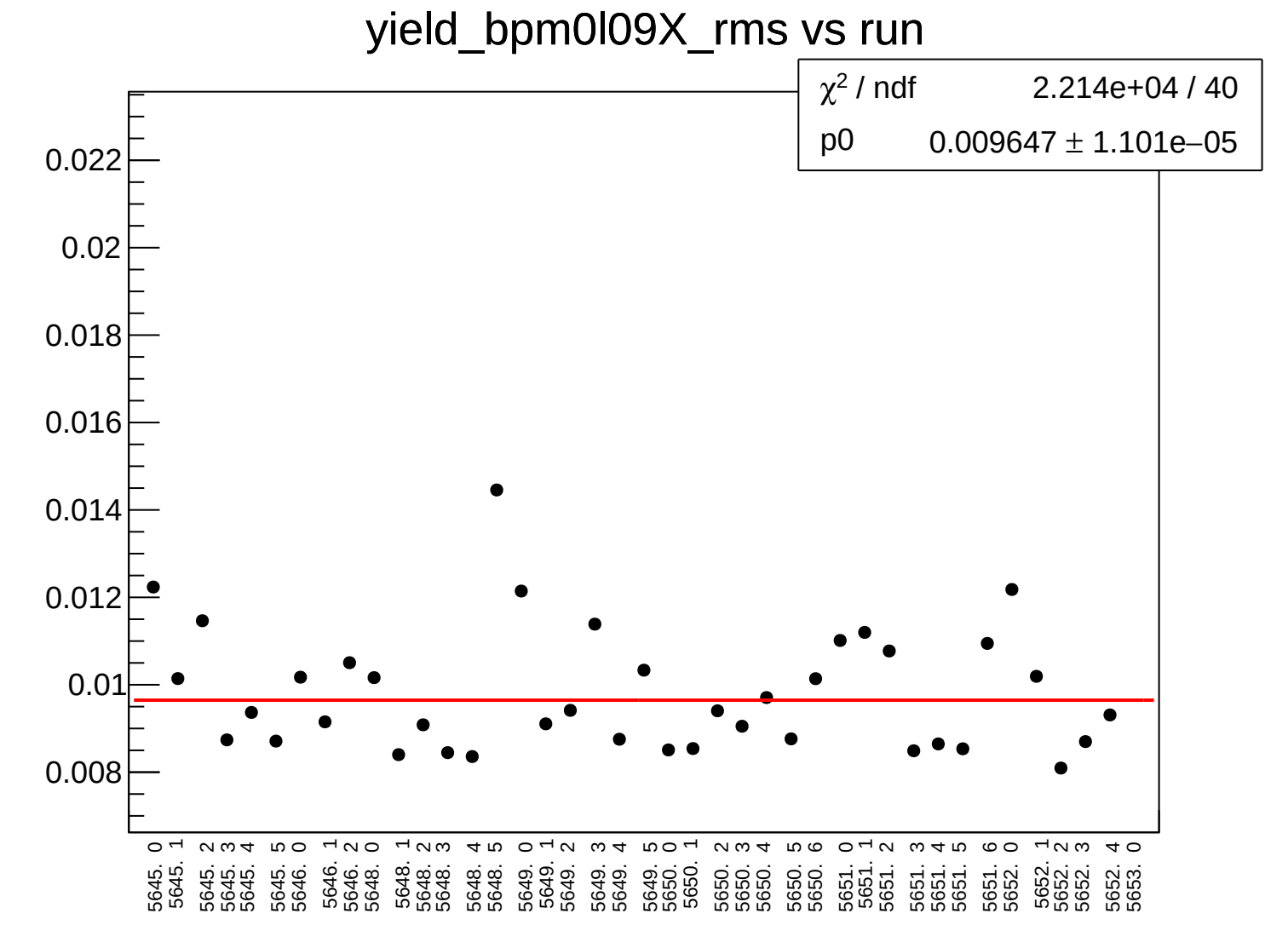

yield_bpm0l08Y_mean vs run
χ² / ndf 3.898e+05 / 40
p0 0.02883 ± 6.42e−06
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
pull
Entries 41
Mean 38.38
Std Dev 111.9
150
100
50
0
−50
−100
−150
−200

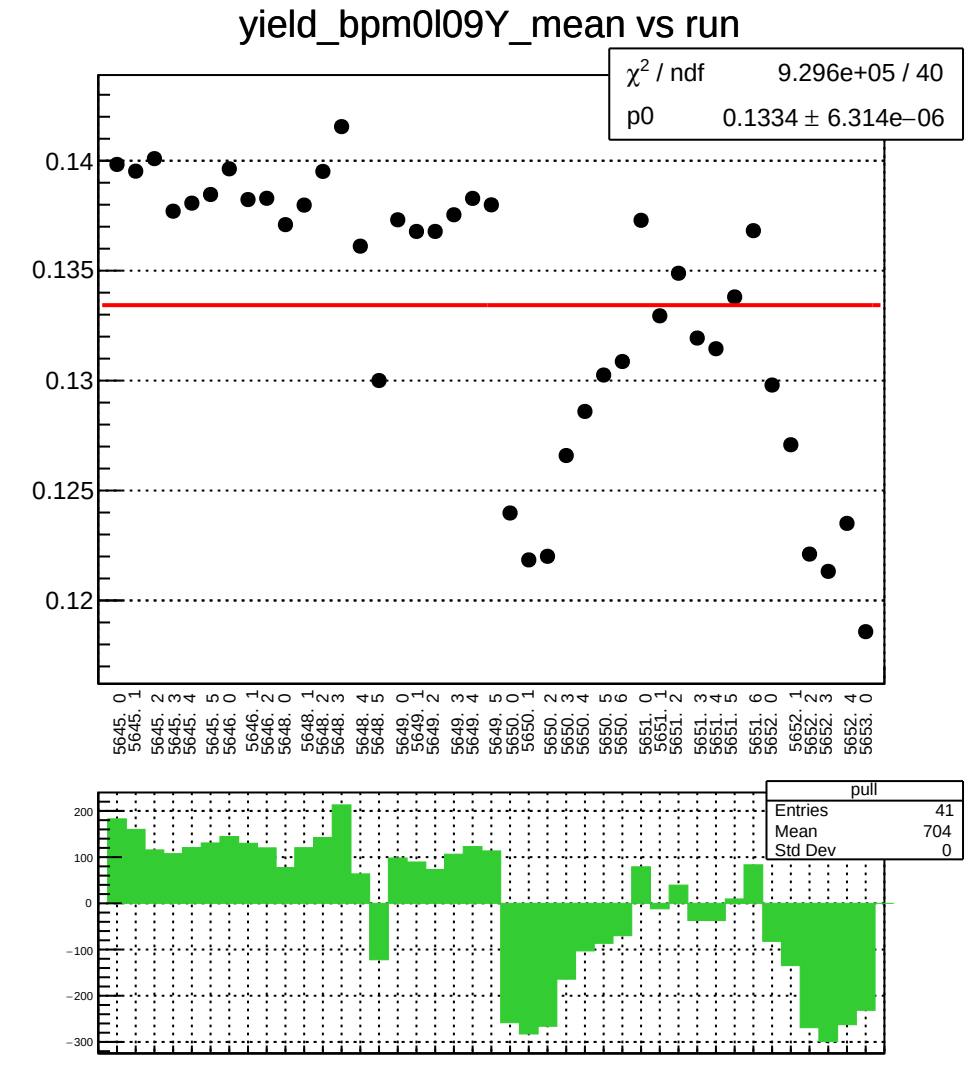

pull1D
Entries 41
Mean 3.402
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

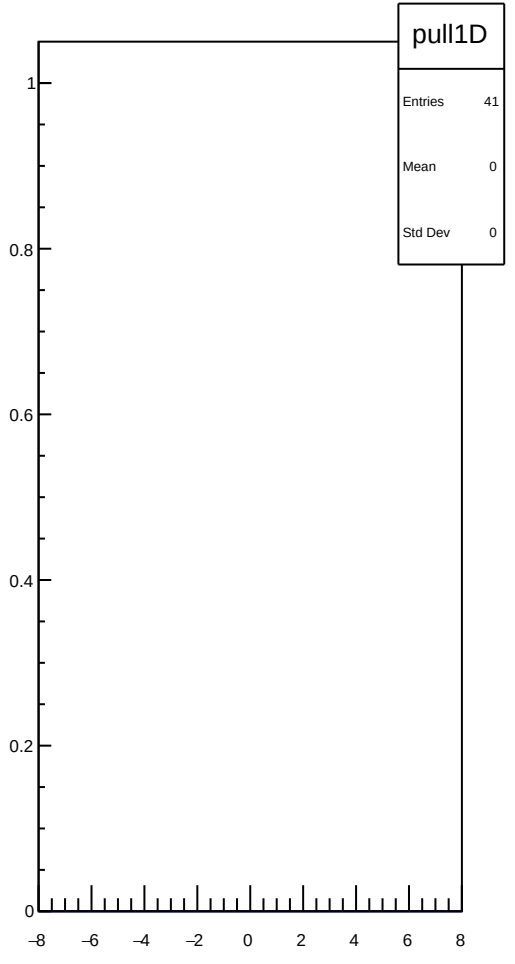

yield_bpm0l08Y_rms vs run
χ² / ndf 5304 / 40
p0 0.004022 ± 4.539e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

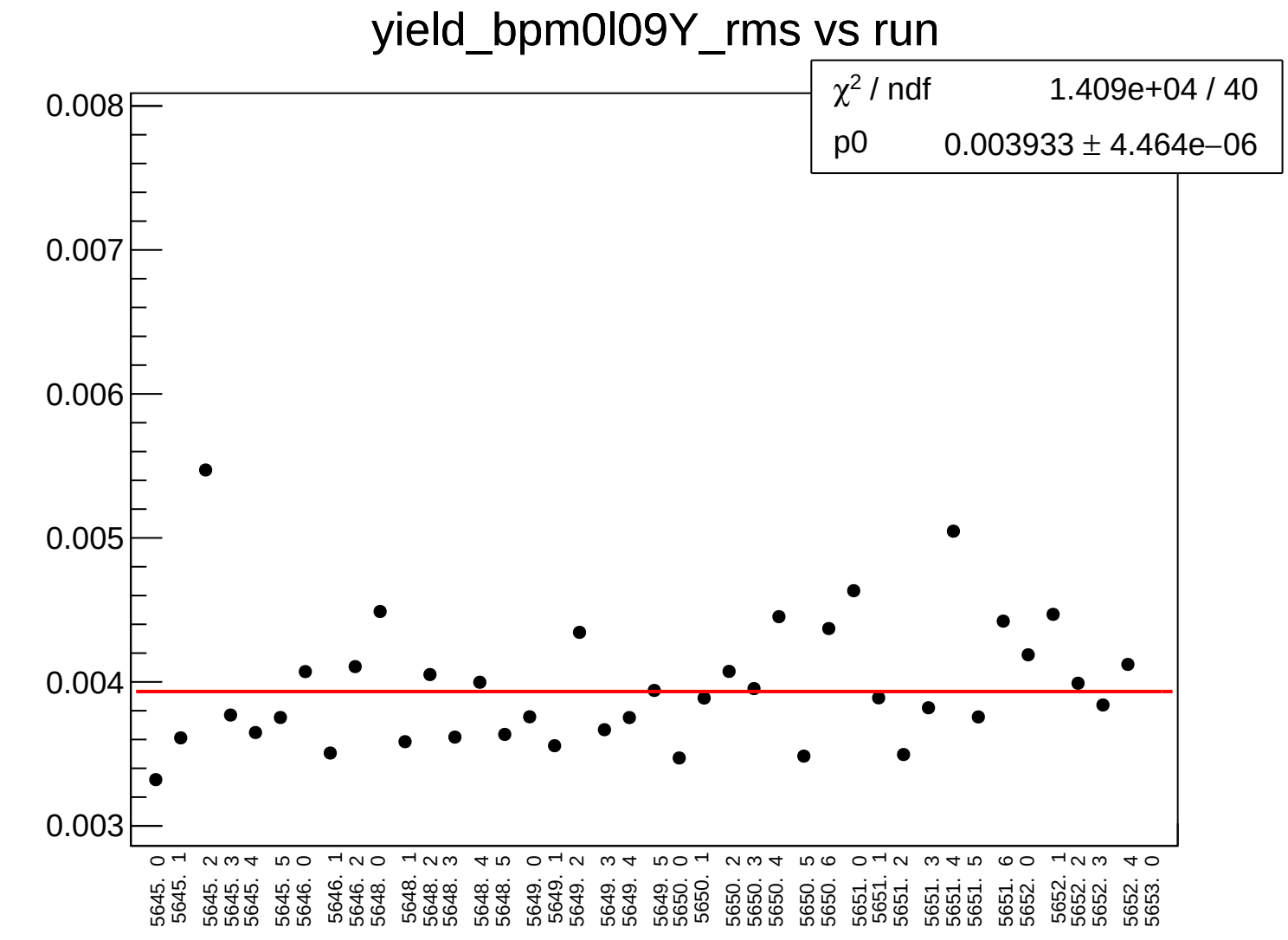

yield_bpm0l09X_mean vs run
χ² / ndf 8.29e+04 / 40
p0 0.8994 ± 1.557e−05
0.915
0.91
0.905
0.9
0.895
0.89
pull
Entries 41
Mean 29.84
Std Dev 28.14
120
100
80
60
40
20
0
−20
−40
−60
−80

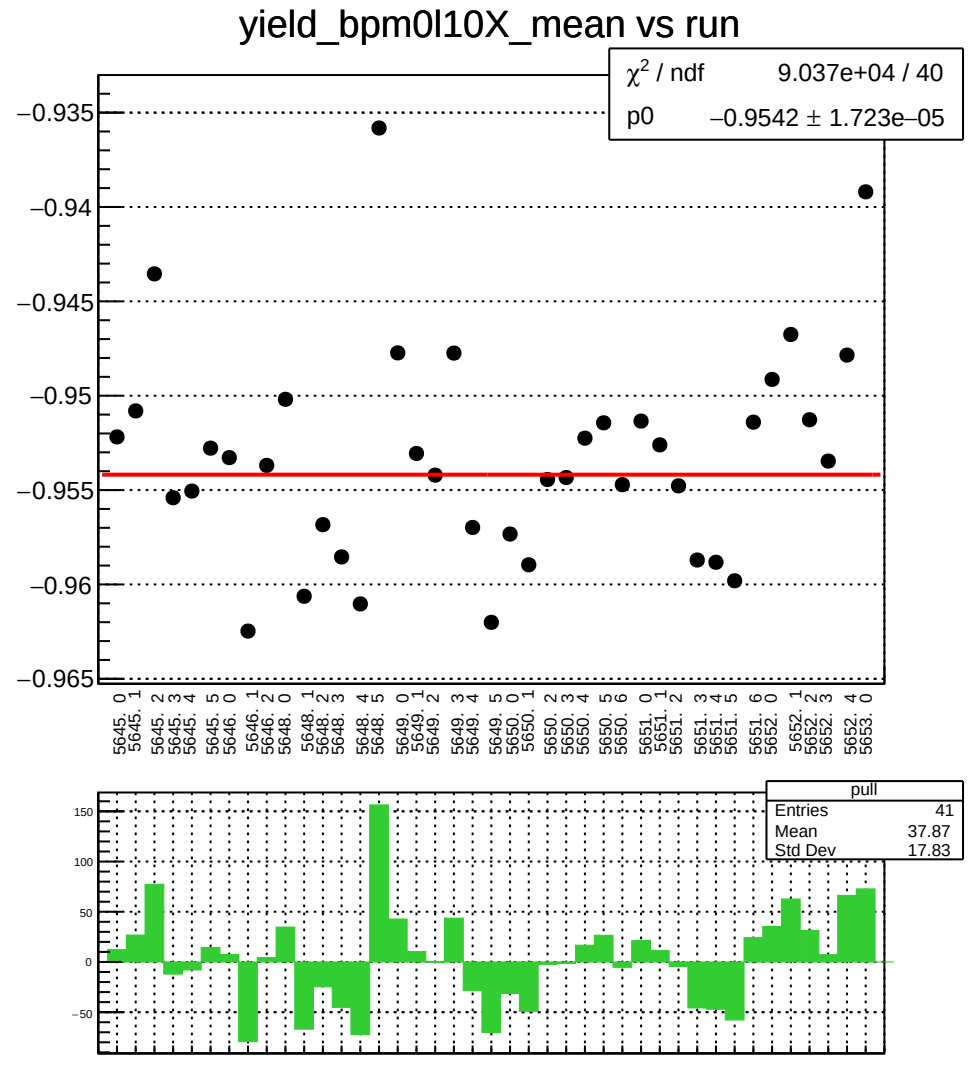

pull1D
Entries 41
Mean 0.3737
Std Dev 4.368
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

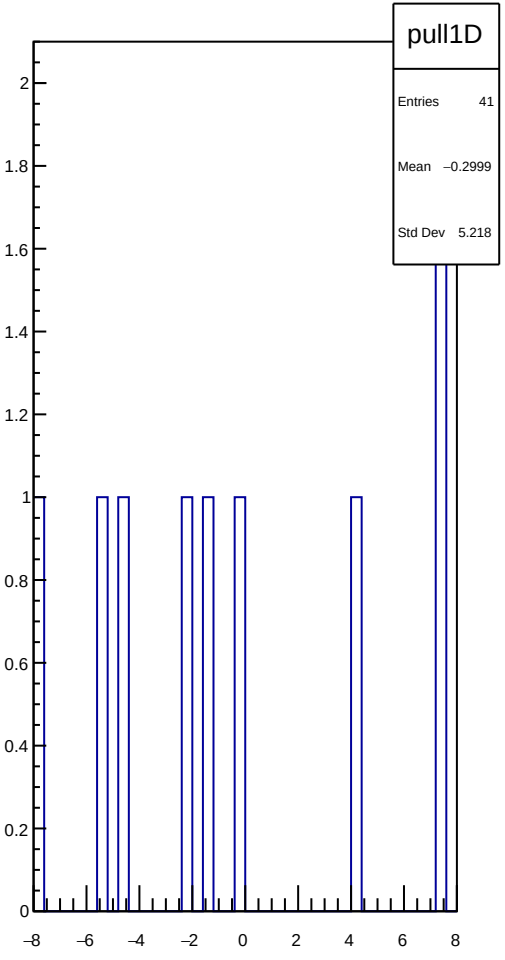

yield_bpm0l09X_rms vs run
χ² / ndf 2.214e+04 / 40
p0 0.009647 ± 1.101e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

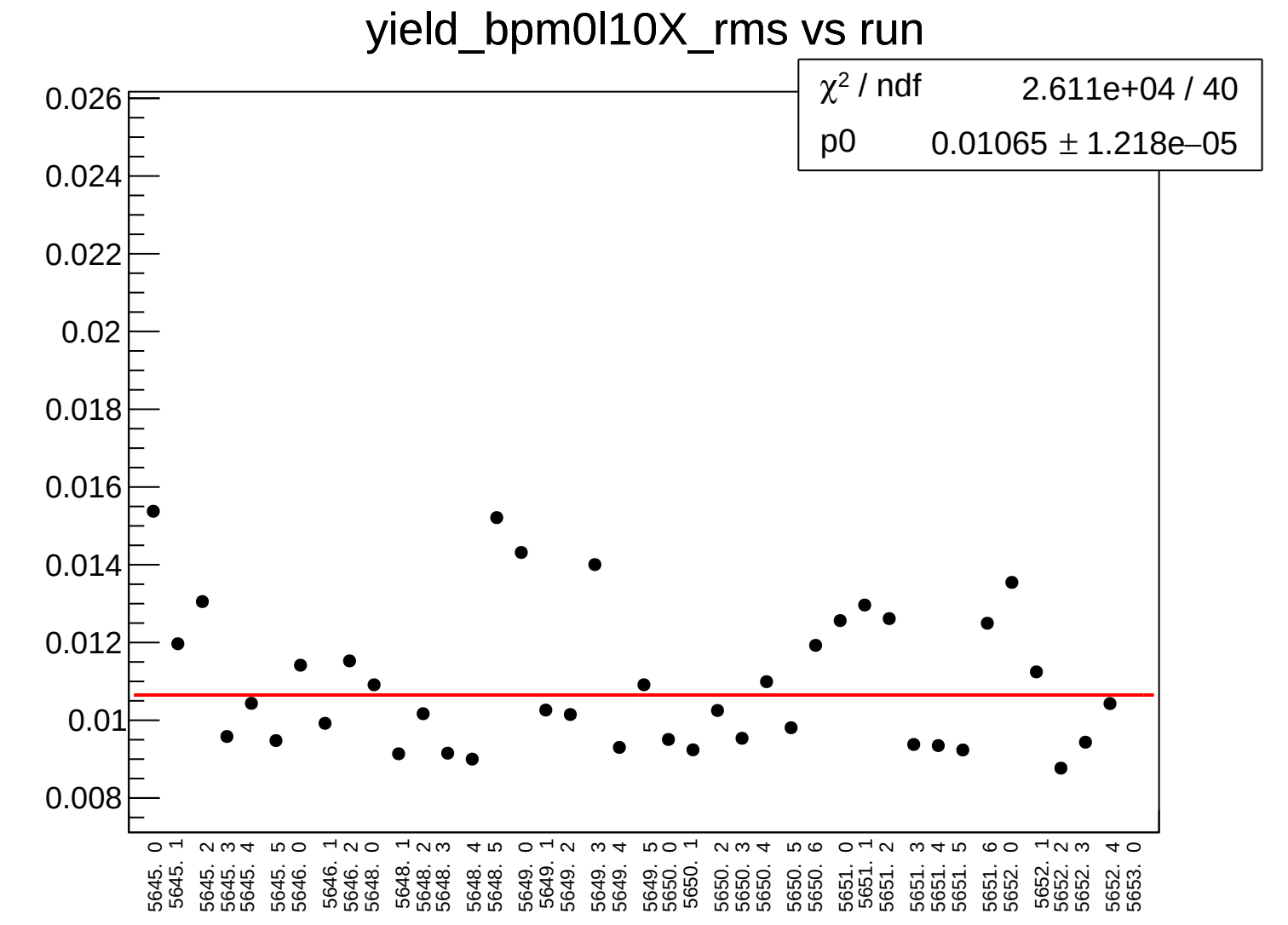

yield_bpm0l09Y_mean vs run
χ² / ndf 9.296e+05 / 40
p0 0.1334 ± 6.314e−06
0.14
0.135
0.13
0.125
0.12
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 704
Std Dev 0
200
100
0
−100
−200
−300

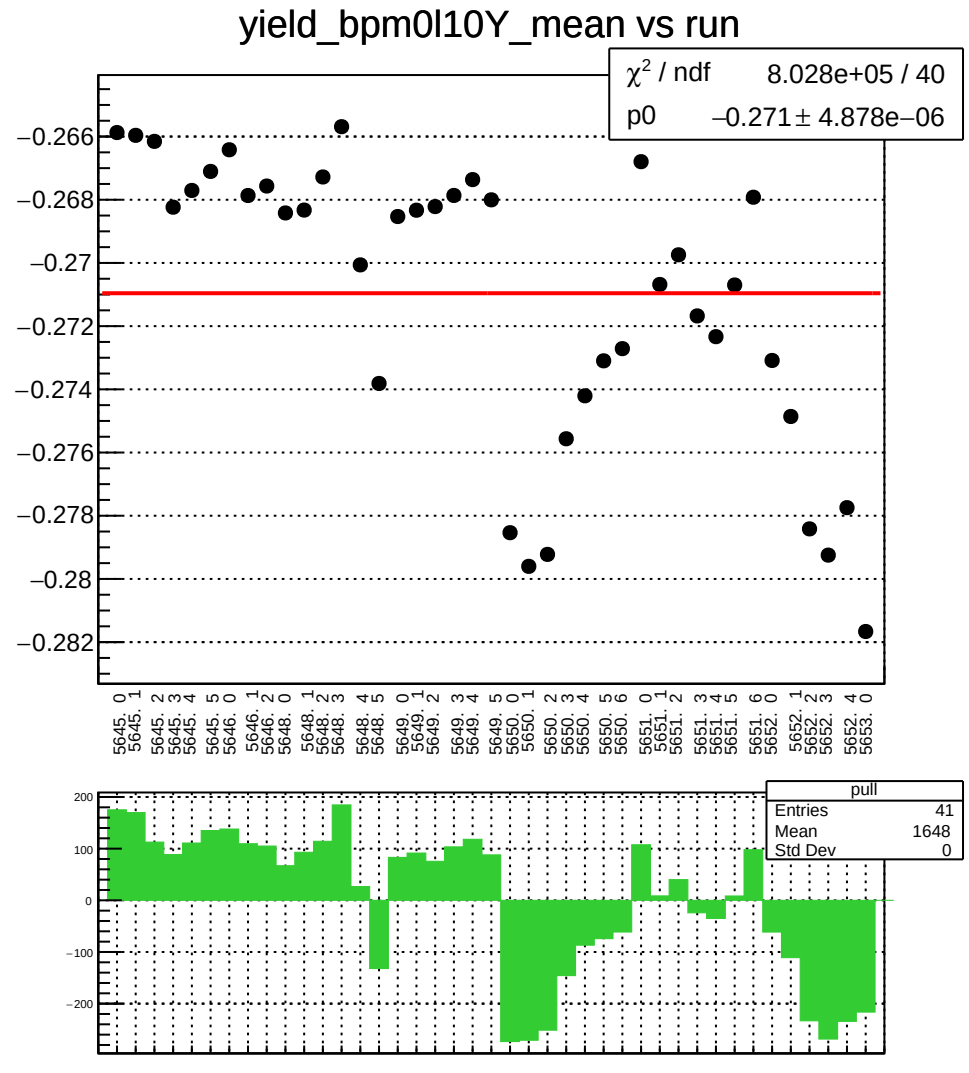

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

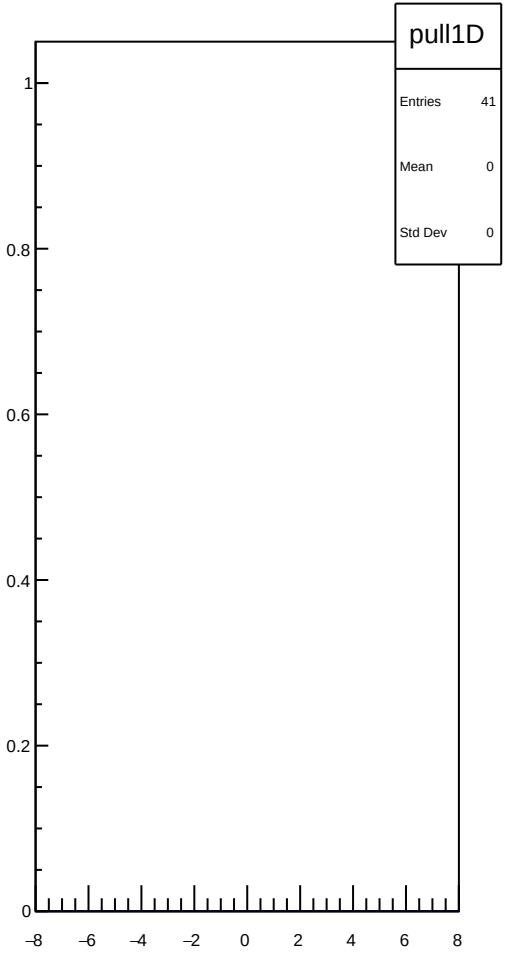

yield_bpm0l09Y_rms vs run
χ² / ndf 1.409e+04 / 40
p0 0.003933 ± 4.464e−06
0.008
0.007
0.006
0.005
0.004
0.003
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

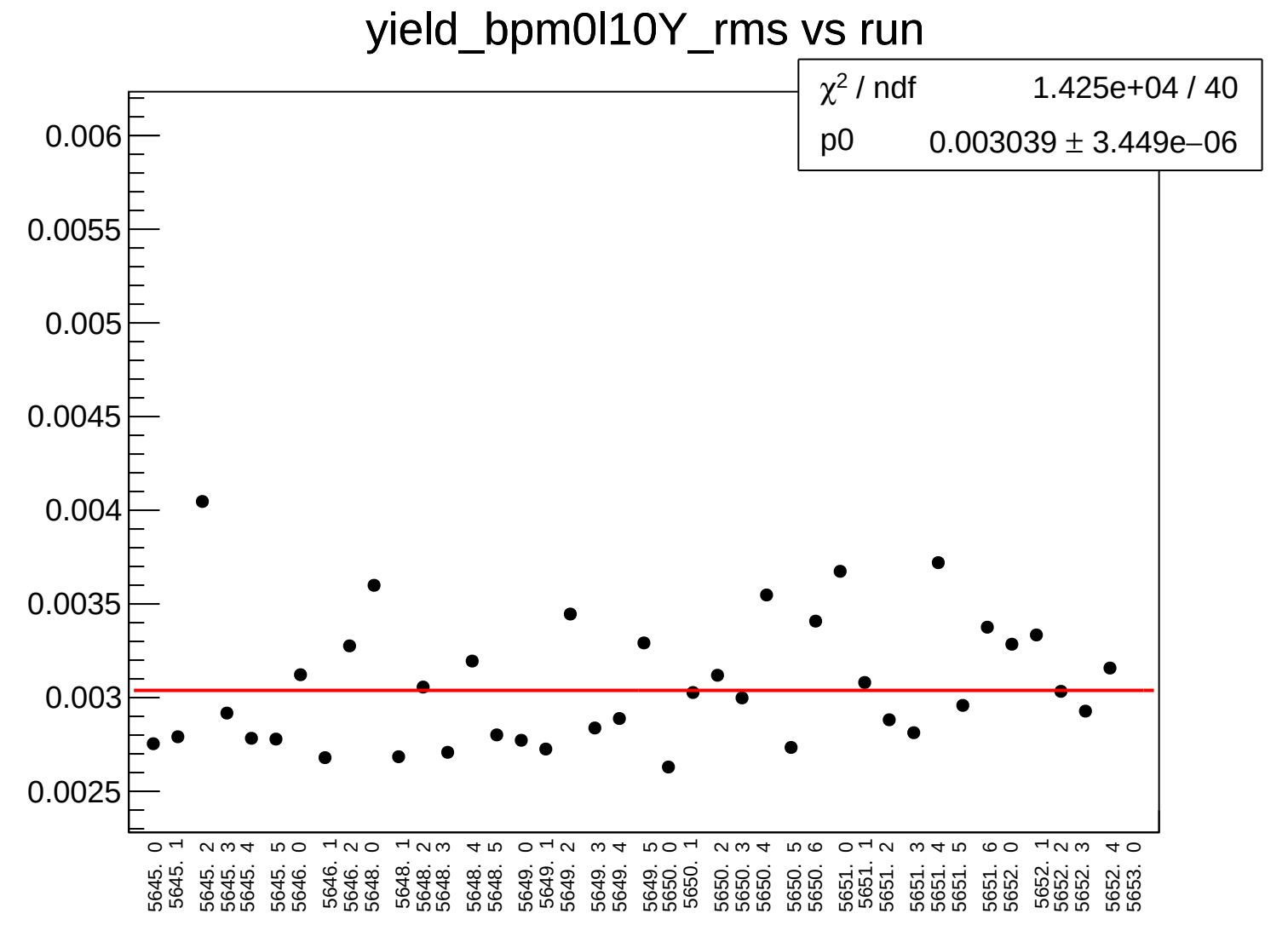

yield_bpm0l10X_mean vs run
χ² / ndf 9.037e+04 / 40
p0 −0.9542 ± 1.723e−05
−0.935
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
pull
Entries 41
Mean 37.87
Std Dev 17.83
150
100
50
0
−50

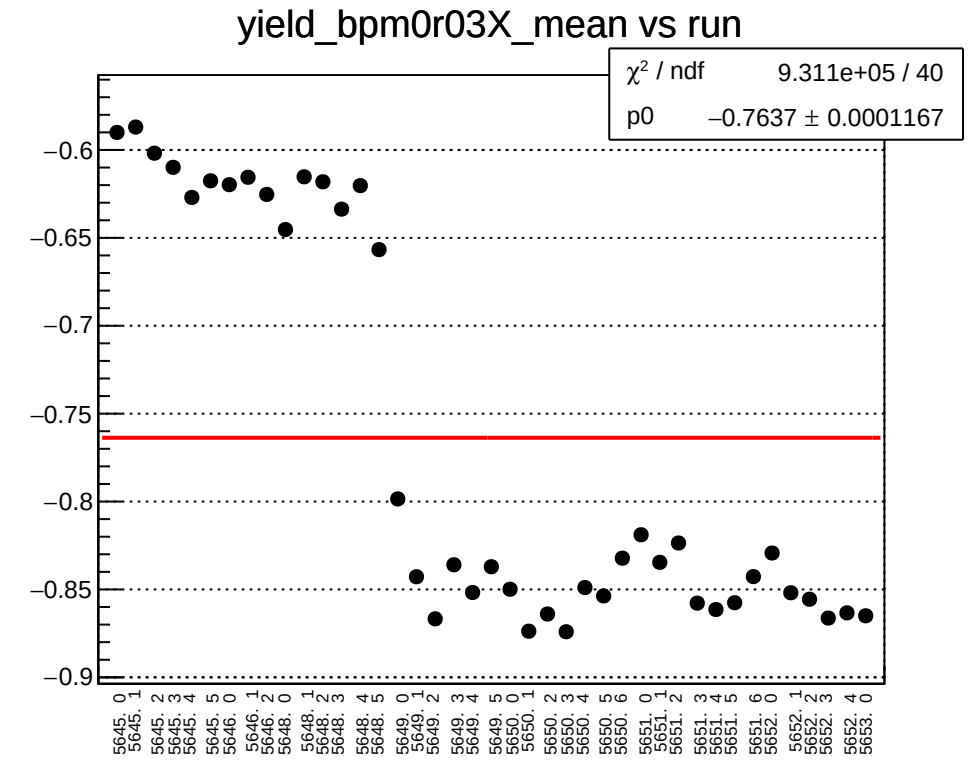

pull1D
Entries 41
Mean −0.2999
Std Dev 5.218
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

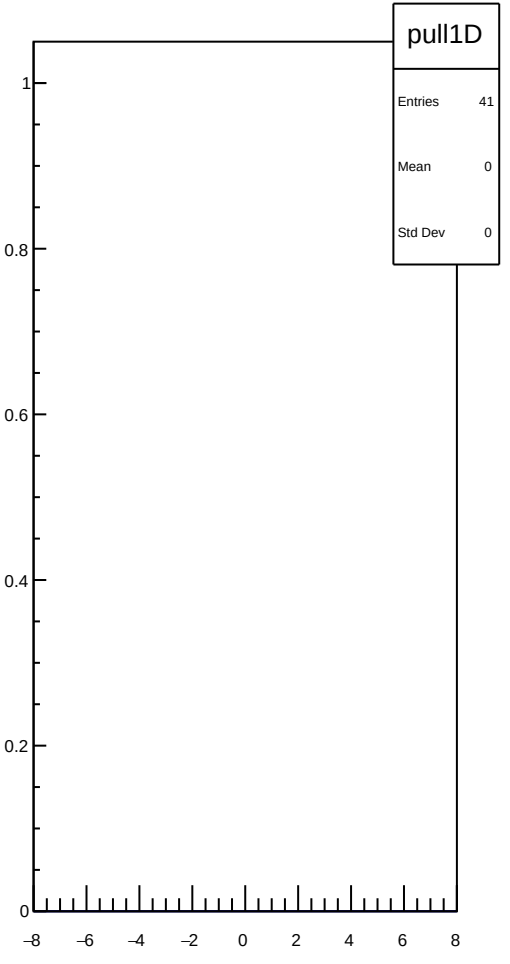

yield_bpm0l10X_rms vs run
χ² / ndf 2.611e+04 / 40
p0 0.01065 ± 1.218e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

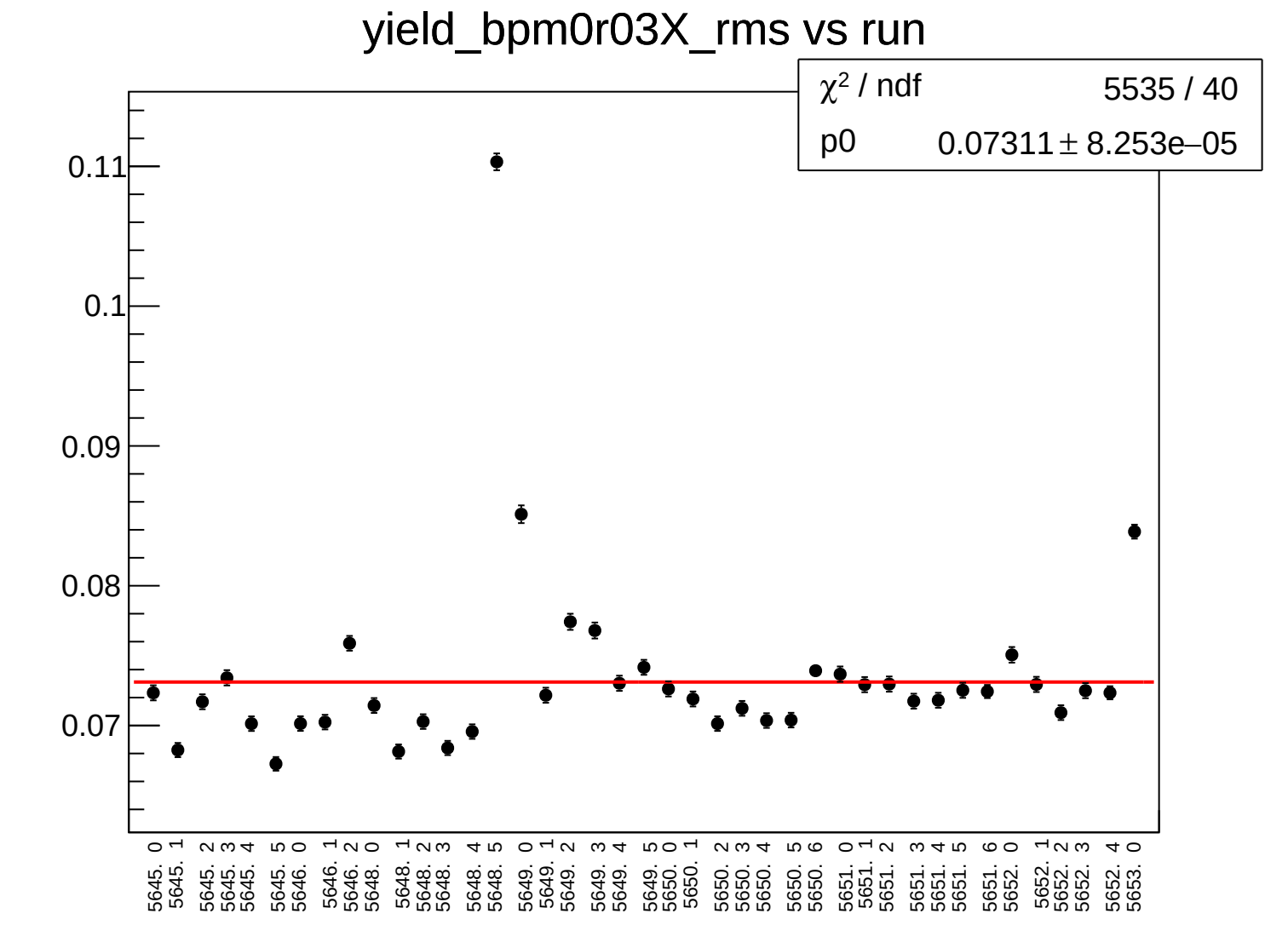

yield_bpm0l10Y_mean vs run
χ² / ndf 8.028e+05 / 40
p0 −0.271 ± 4.878e−06
−0.266
−0.268
−0.27
−0.272
−0.274
−0.276
−0.278
−0.28
−0.282
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1648
Std Dev 0
200
100
0
−100
−200

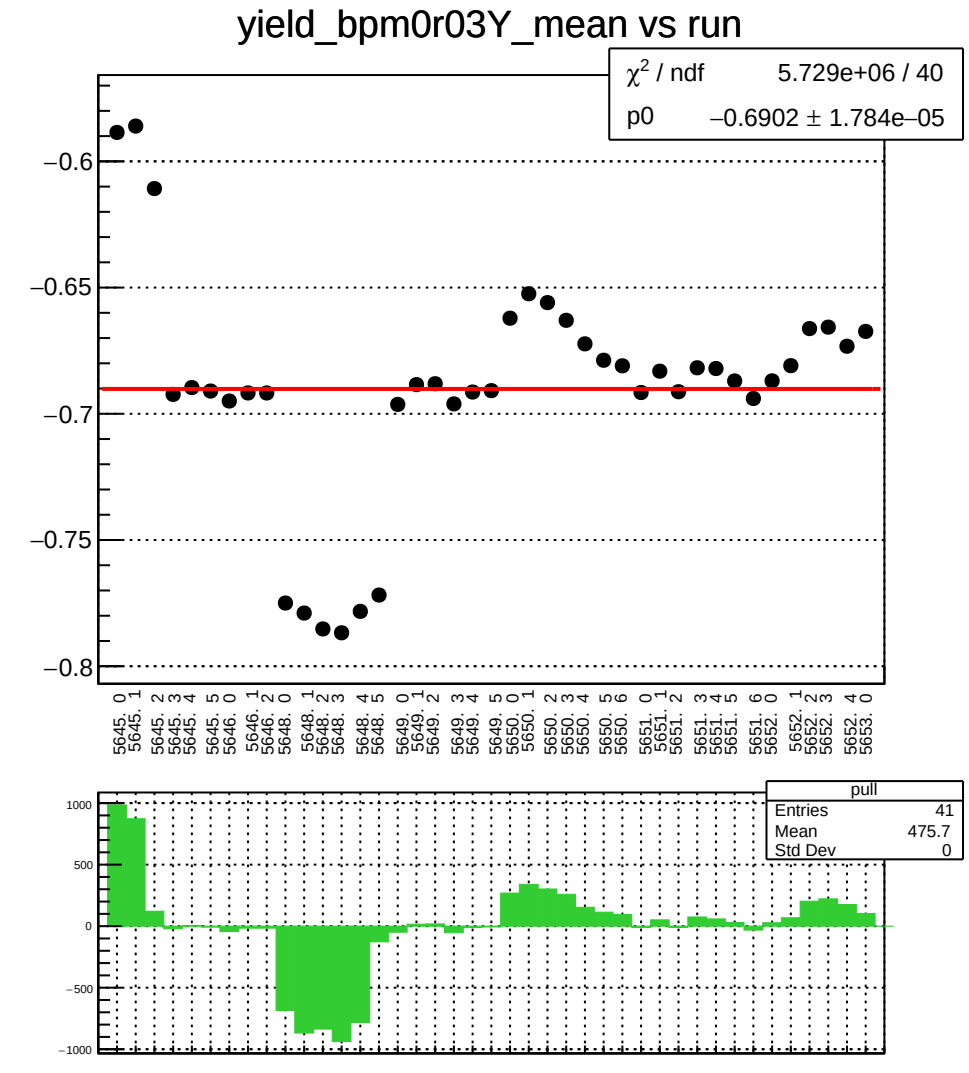

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

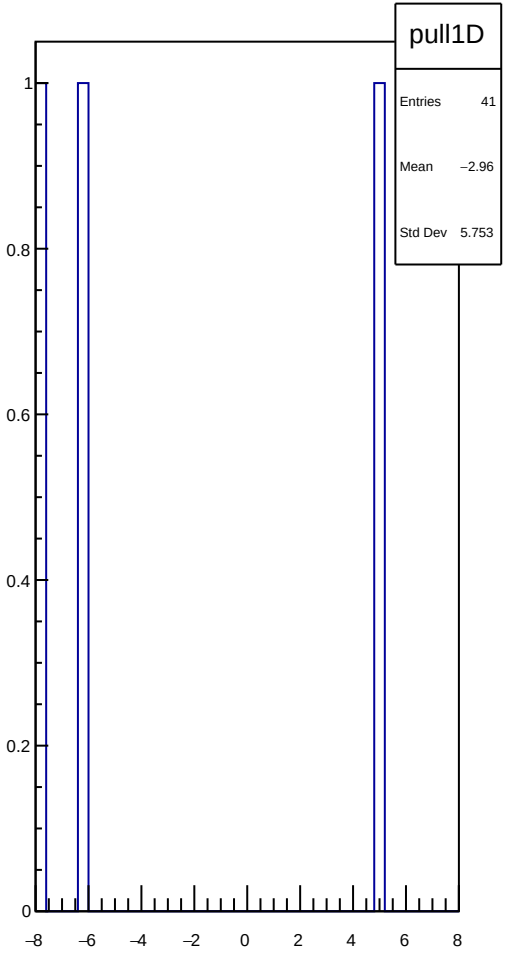

yield_bpm0l10Y_rms vs run
χ² / ndf 1.425e+04 / 40
p0 0.003039 ± 3.449e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

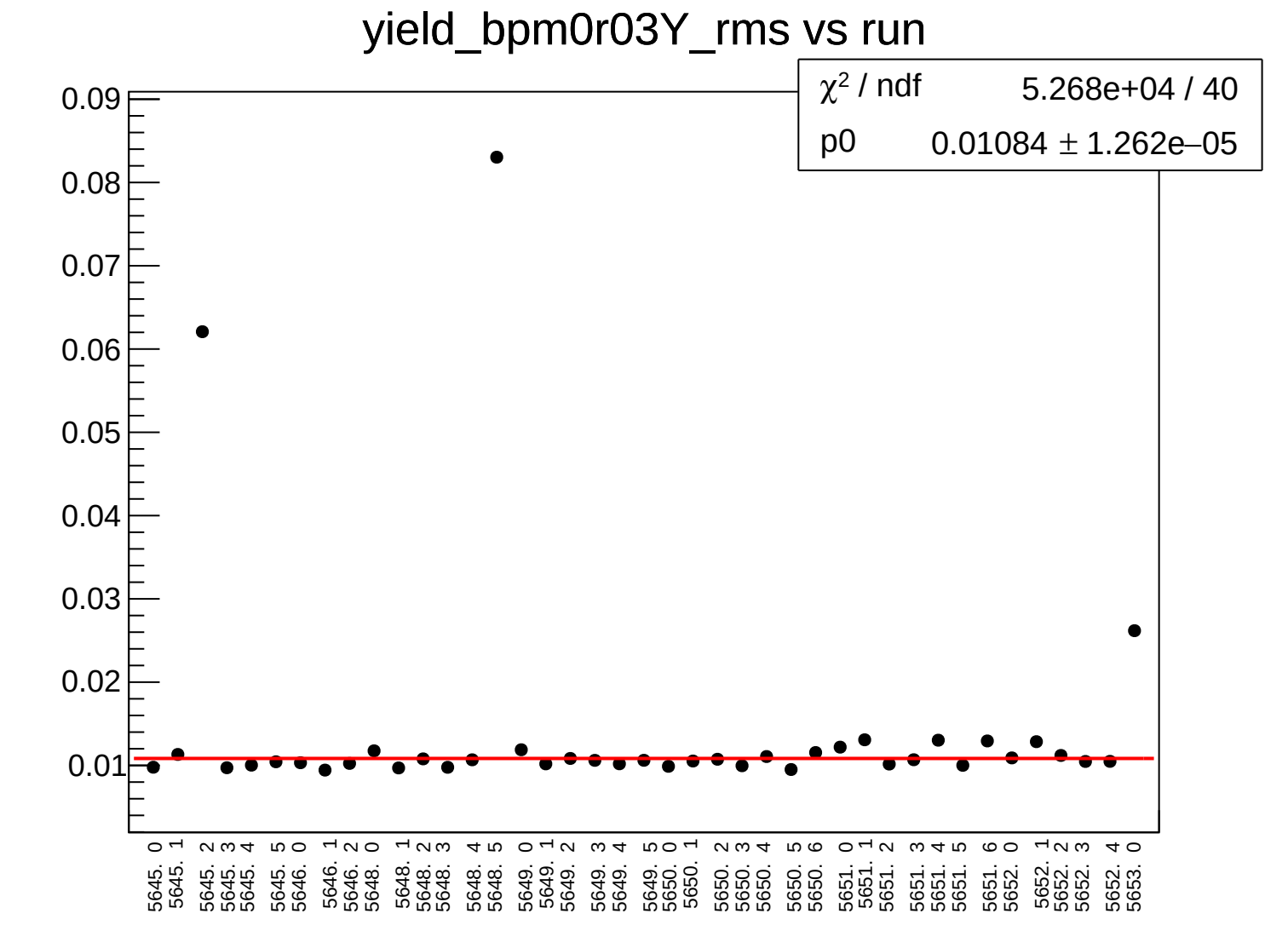

yield_bpm0r03X_mean vs run
χ² / ndf 9.311e+05 / 40
p0 −0.7637 ± 0.0001167
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4275
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

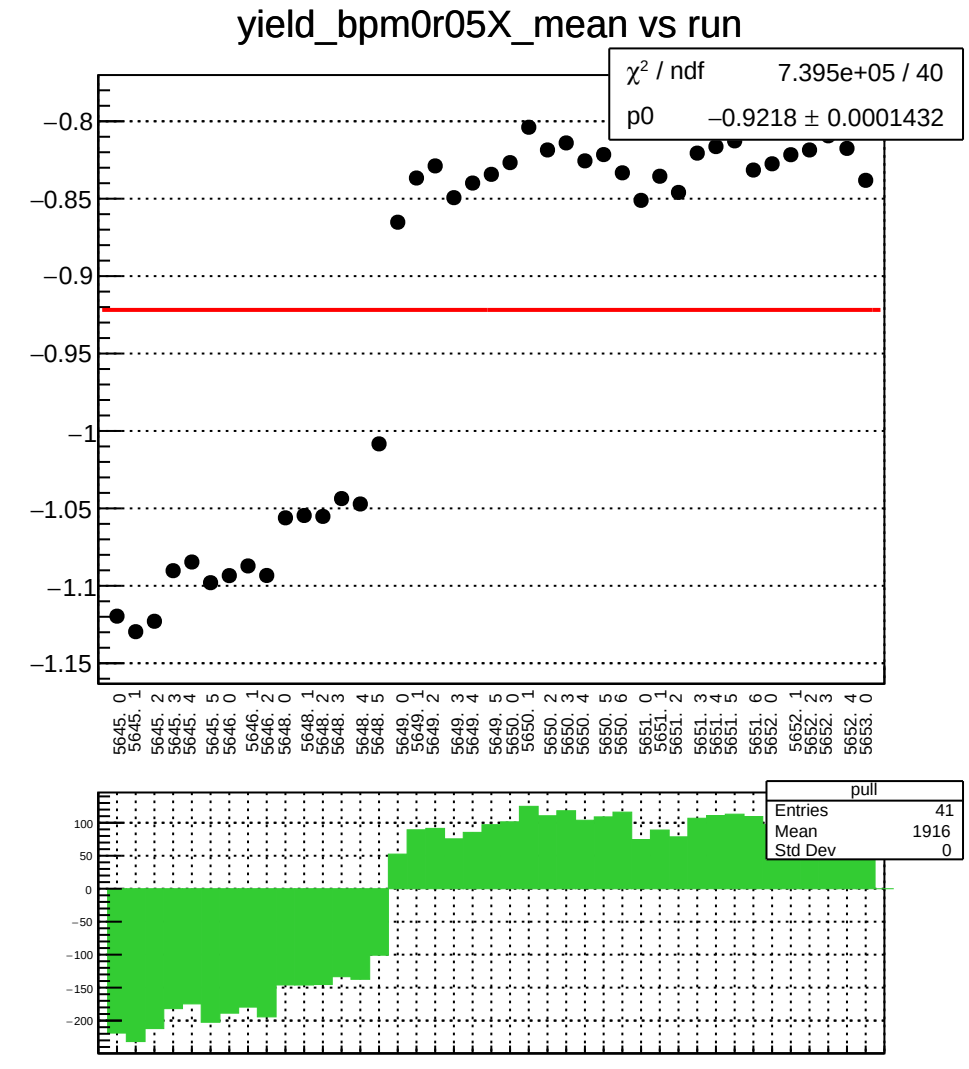

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

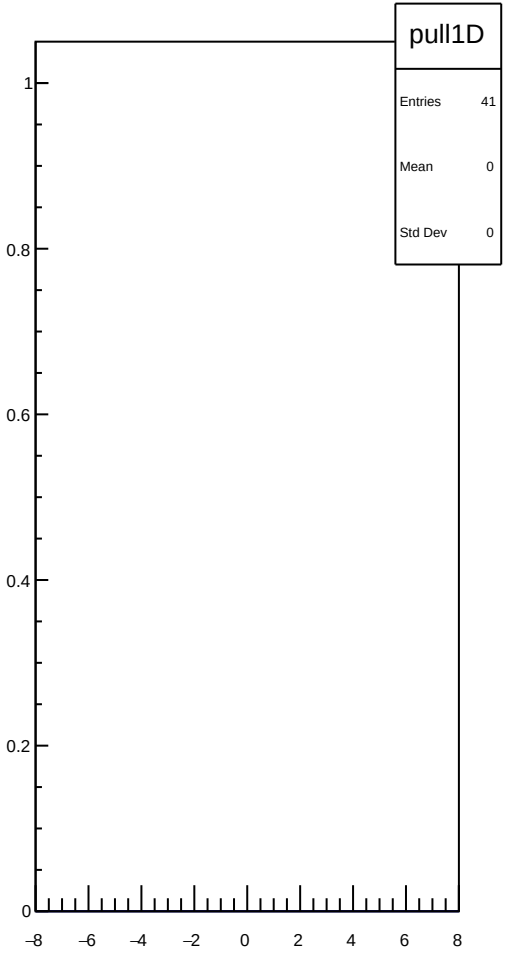

yield_bpm0r03X_rms vs run
χ² / ndf 5535 / 40
p0 0.07311 ± 8.253e–05
0.11
0.1
0.09
0.08
0.07
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

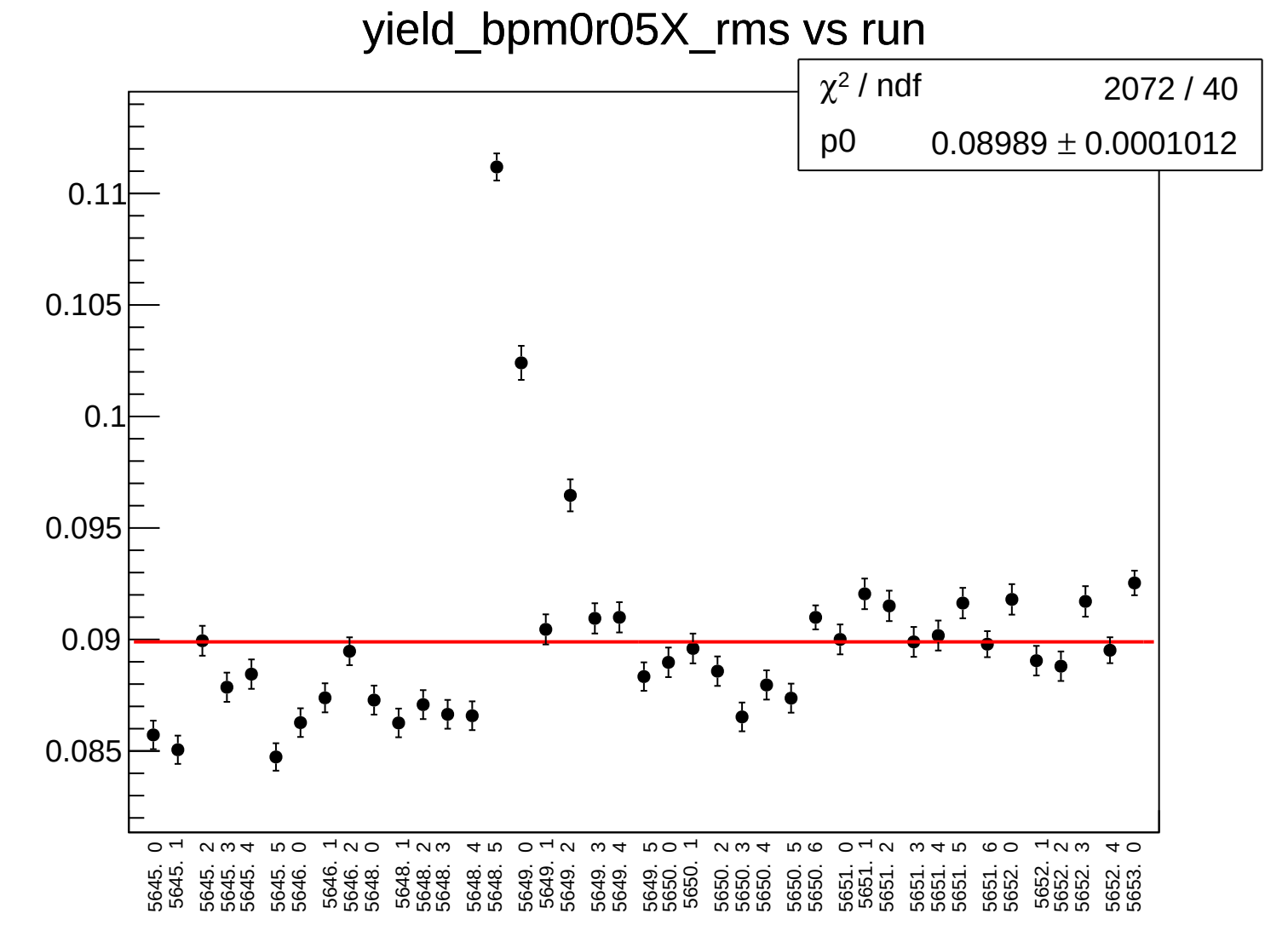

yield_bpm0r03Y_mean vs run
χ² / ndf 5.729e+06 / 40
p0 −0.6902 ± 1.784e−05
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 41
Mean 475.7
Std Dev 0
1000
500
0
−500
−1000

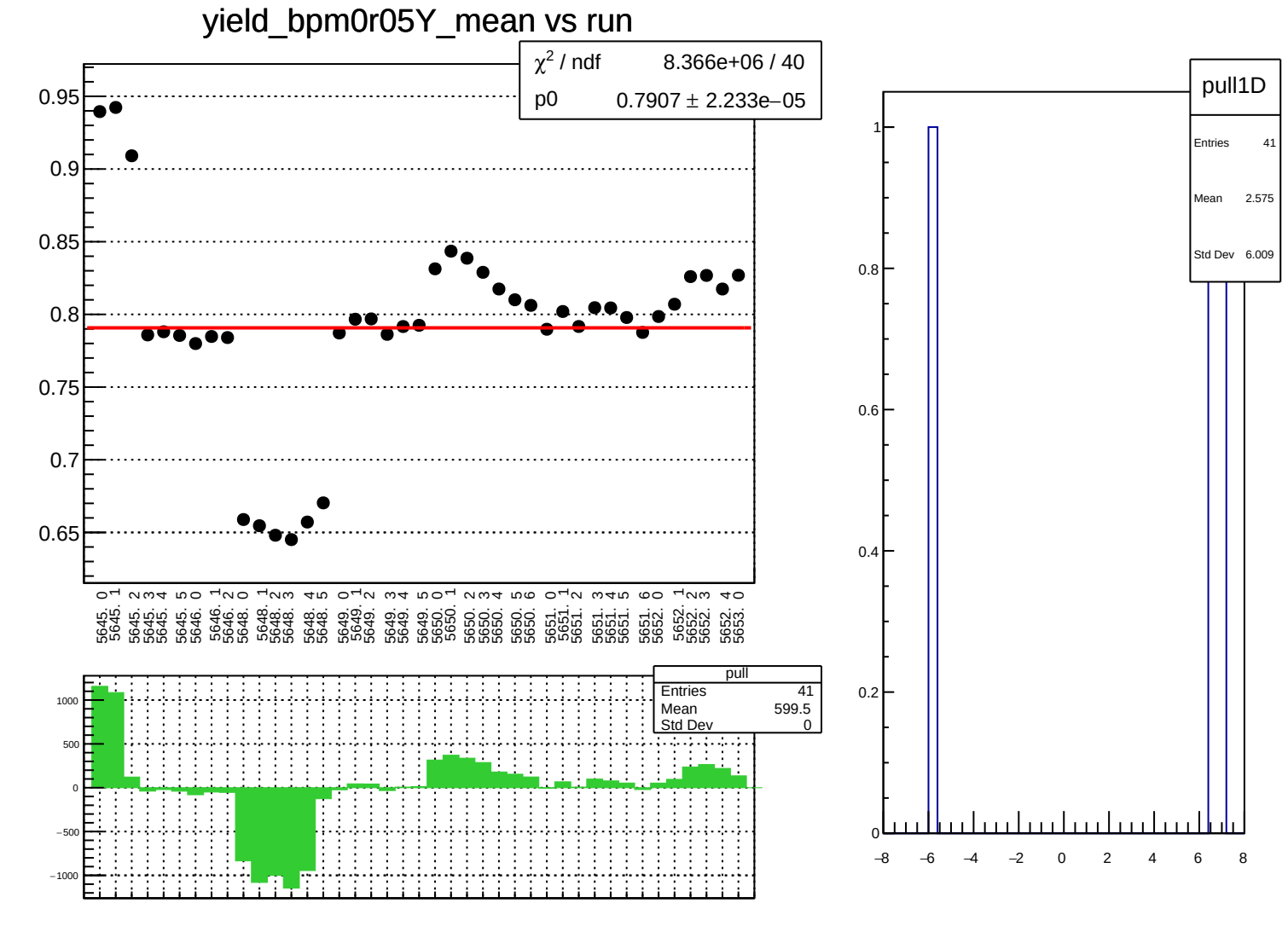

pull1D
Entries 41
Mean −2.96
Std Dev 5.753
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

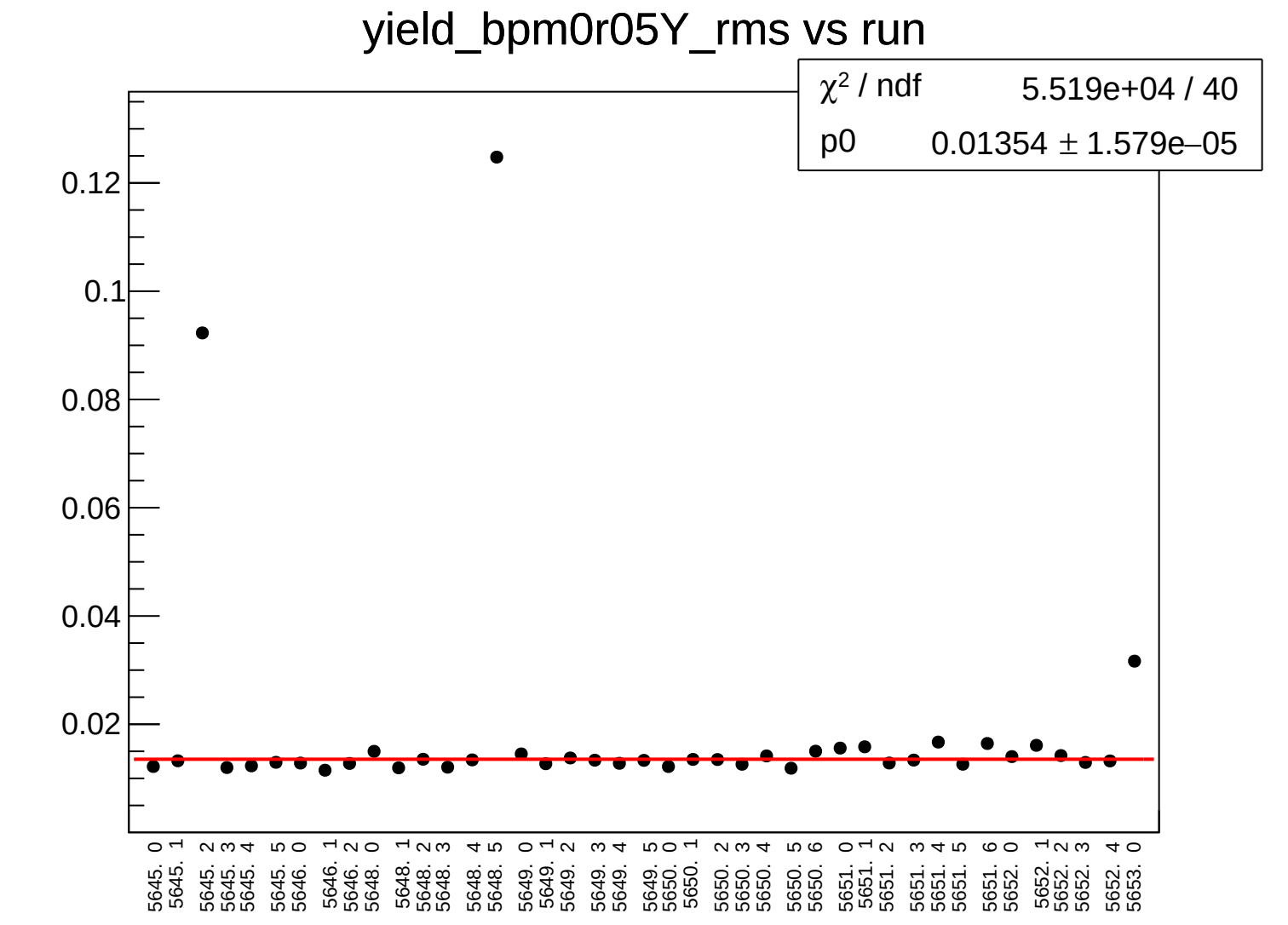

yield_bpm0r03Y_rms vs run
χ² / ndf 5.268e+04 / 40
p0 0.01084 ± 1.262e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

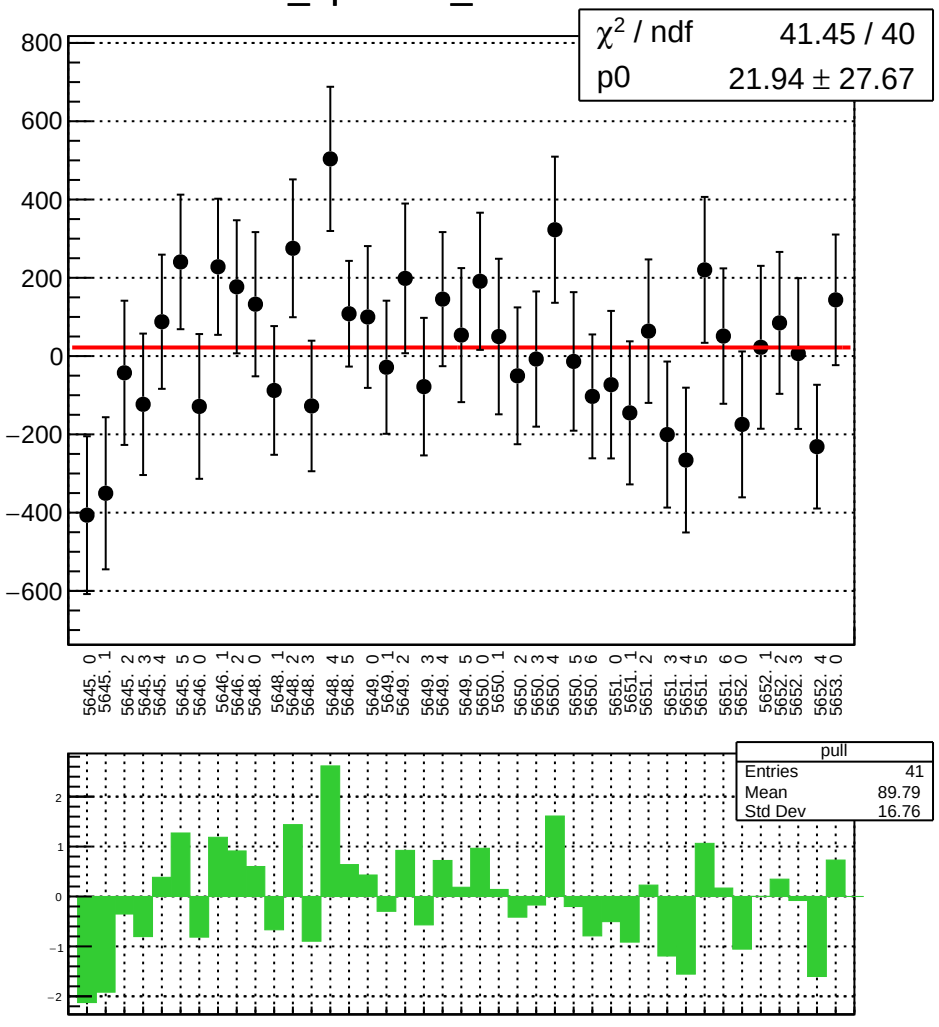

yield_bpm0r05X_mean vs run
χ² / ndf 7.395e+05 / 40
p0 −0.9218 ± 0.0001432
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
−1.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1916
Std Dev 0
100
50
0
−50
−100
−150
−200

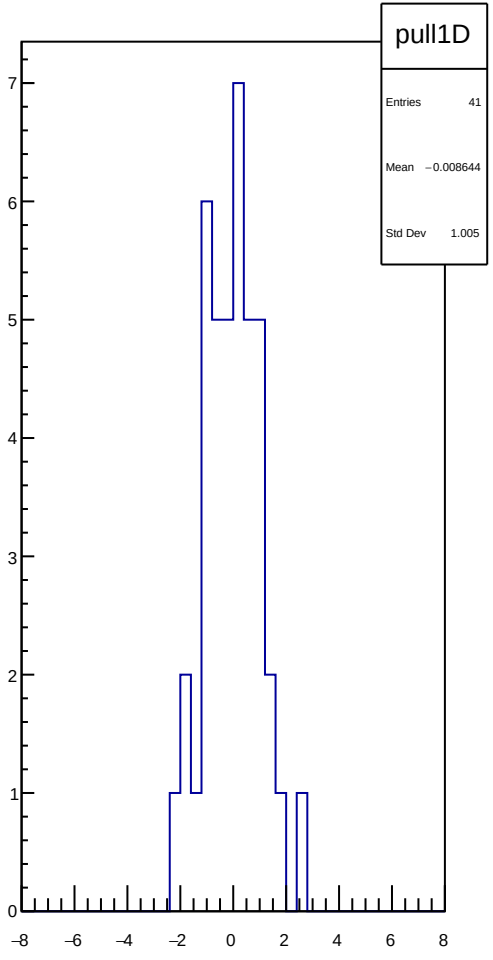

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

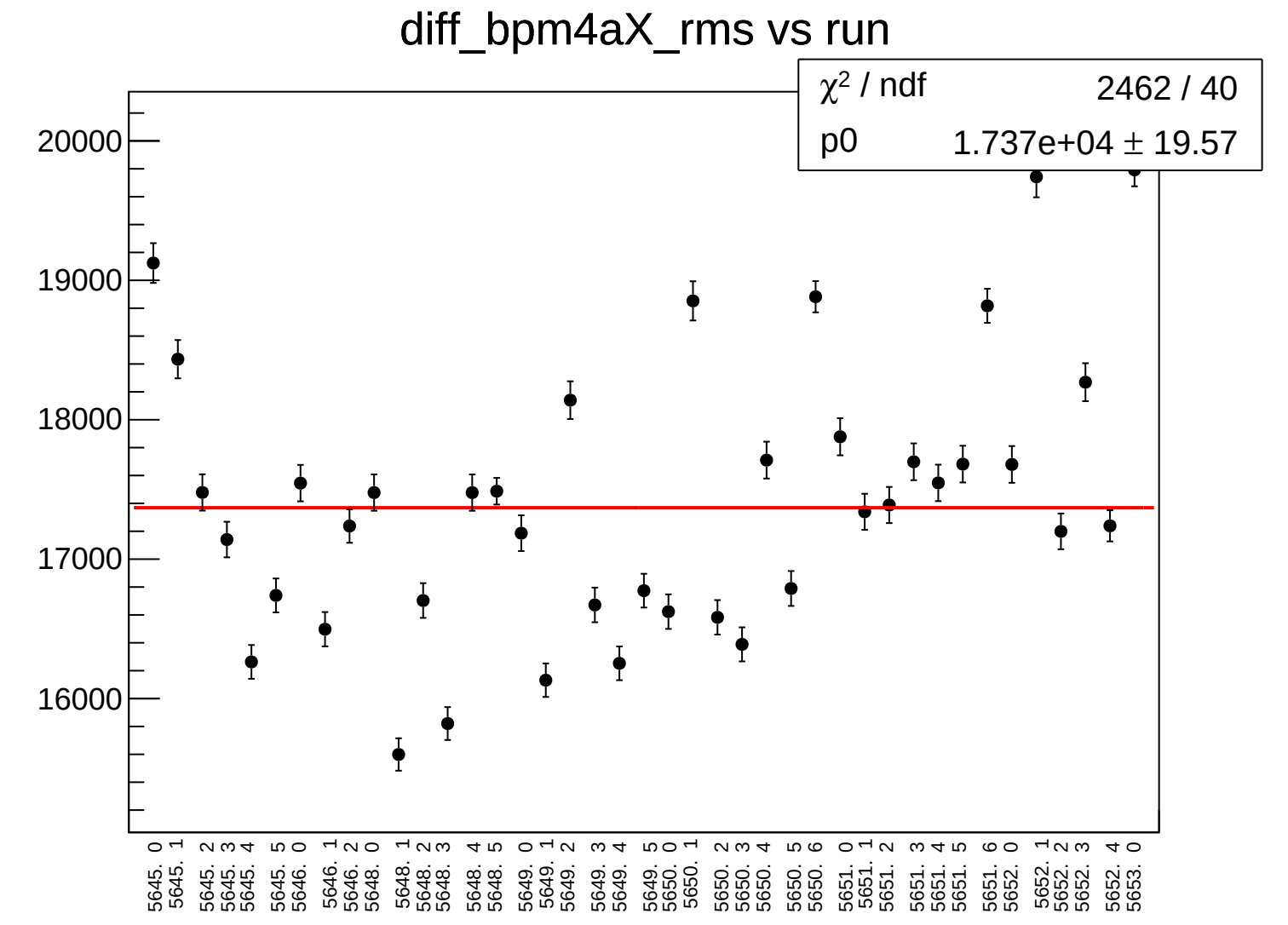

yield_bpm0r05X_rms vs run
χ² / ndf 2072 / 40
p0 0.08989 ± 0.0001012
0.11
0.105
0.1
0.095
0.09
0.085
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

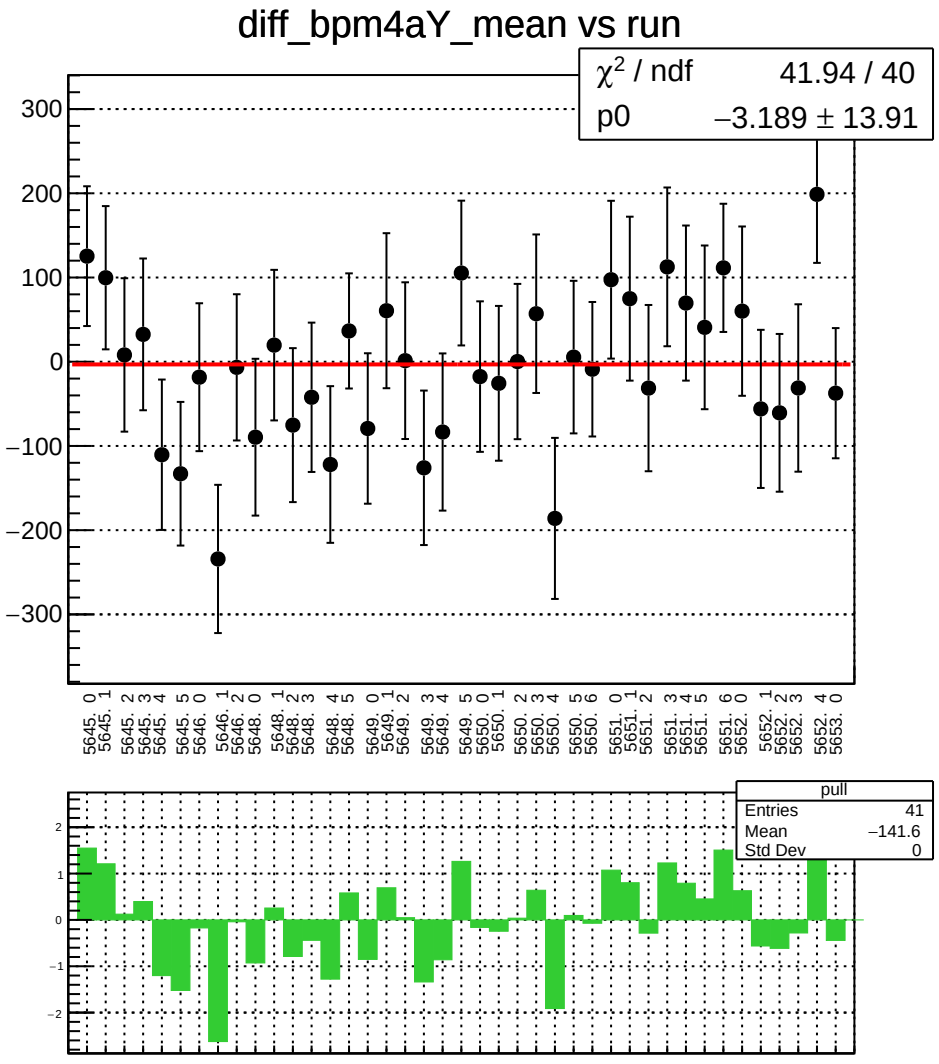

yield_bpm0r05Y_mean vs run
χ² / ndf 8.366e+06 / 40
p0 0.7907 ± 2.233e−05
0.95
0.9
0.85
0.8
0.75
0.7
0.65
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 599.5
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 41
Mean 2.575
Std Dev 6.009
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

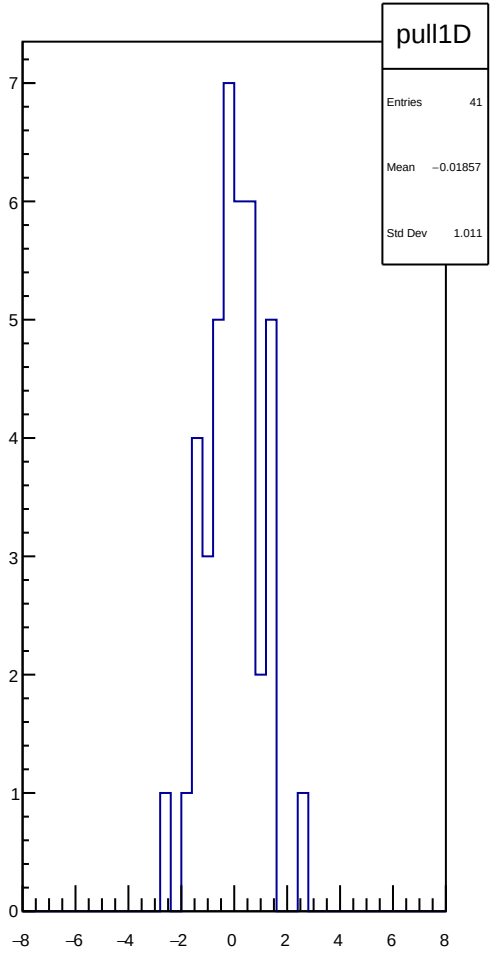

yield_bpm0r05Y_rms vs run
χ² / ndf 5.519e+04 / 40
p0 0.01354 ± 1.579e–05
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

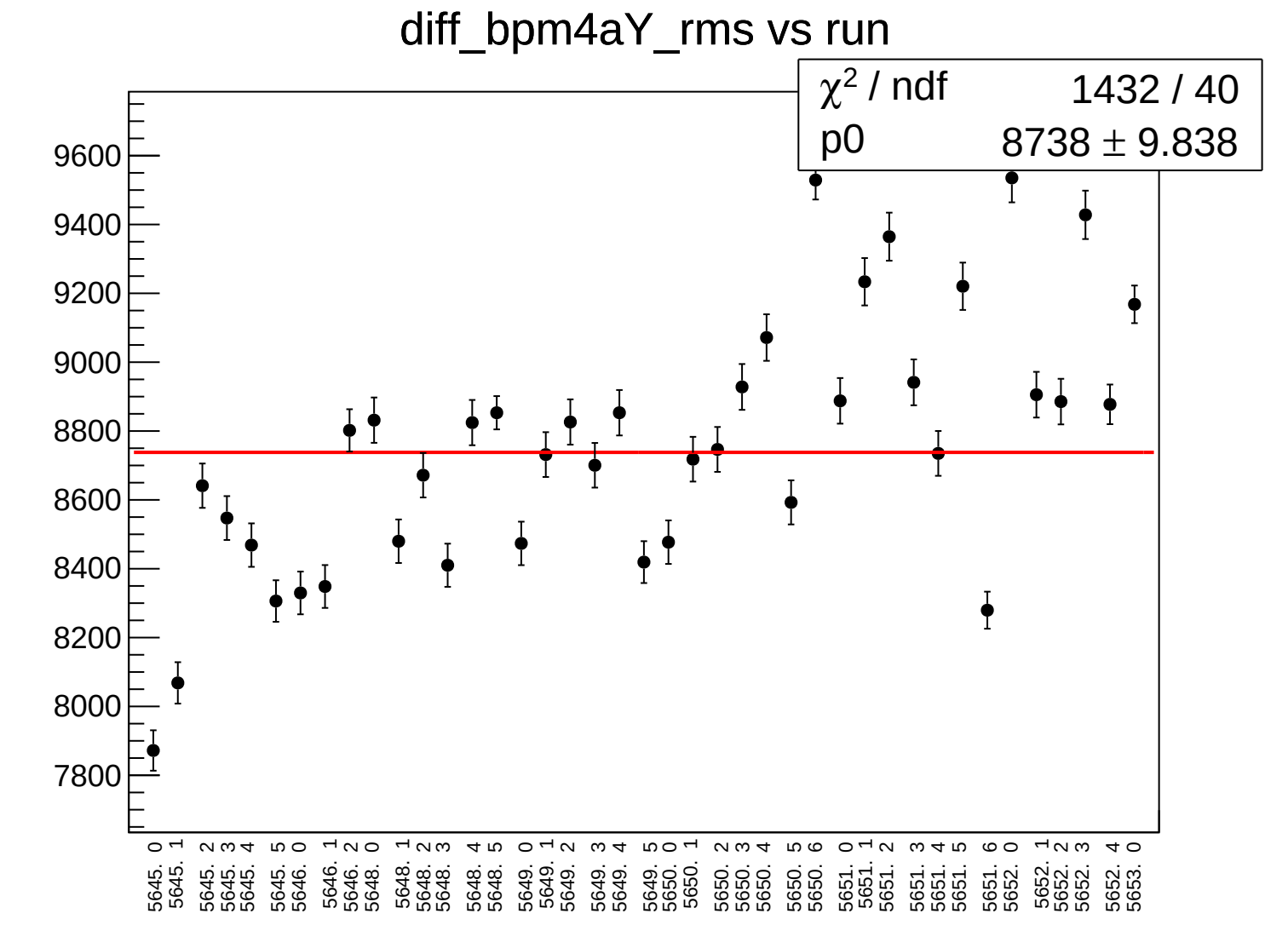

diff_bpm4aX_mean vs run
χ² / ndf 41.45 / 40
p0 21.94 ± 27.67
pull
Entries 41
Mean 89.79
Std Dev 16.76

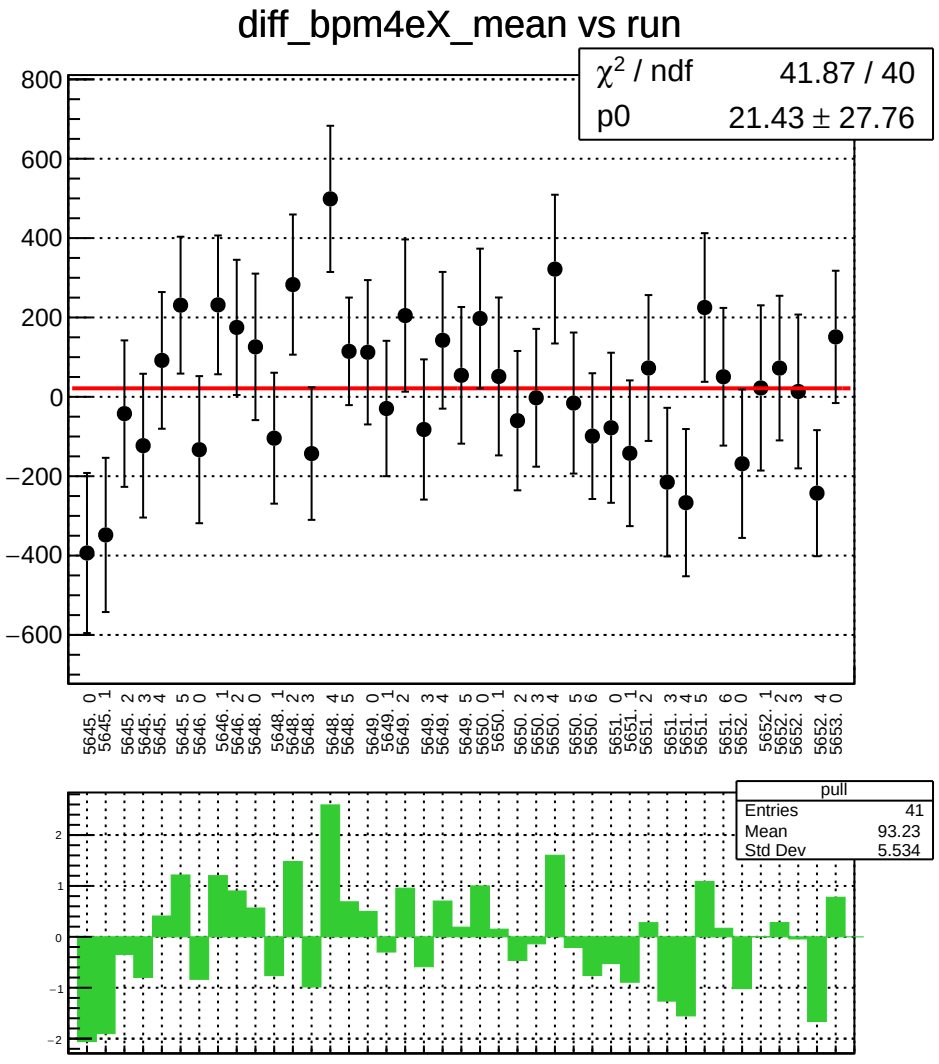

pull1D
Entries 41
Mean −0.008644
Std Dev 1.005

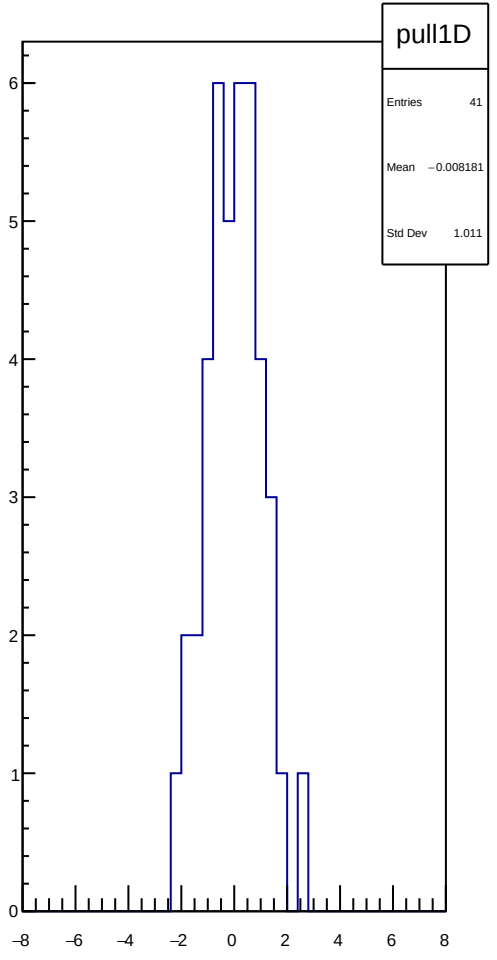

diff_bpm4aX_rms vs run
χ² / ndf 2462 / 40
p0 1.737e+04 ± 19.57
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

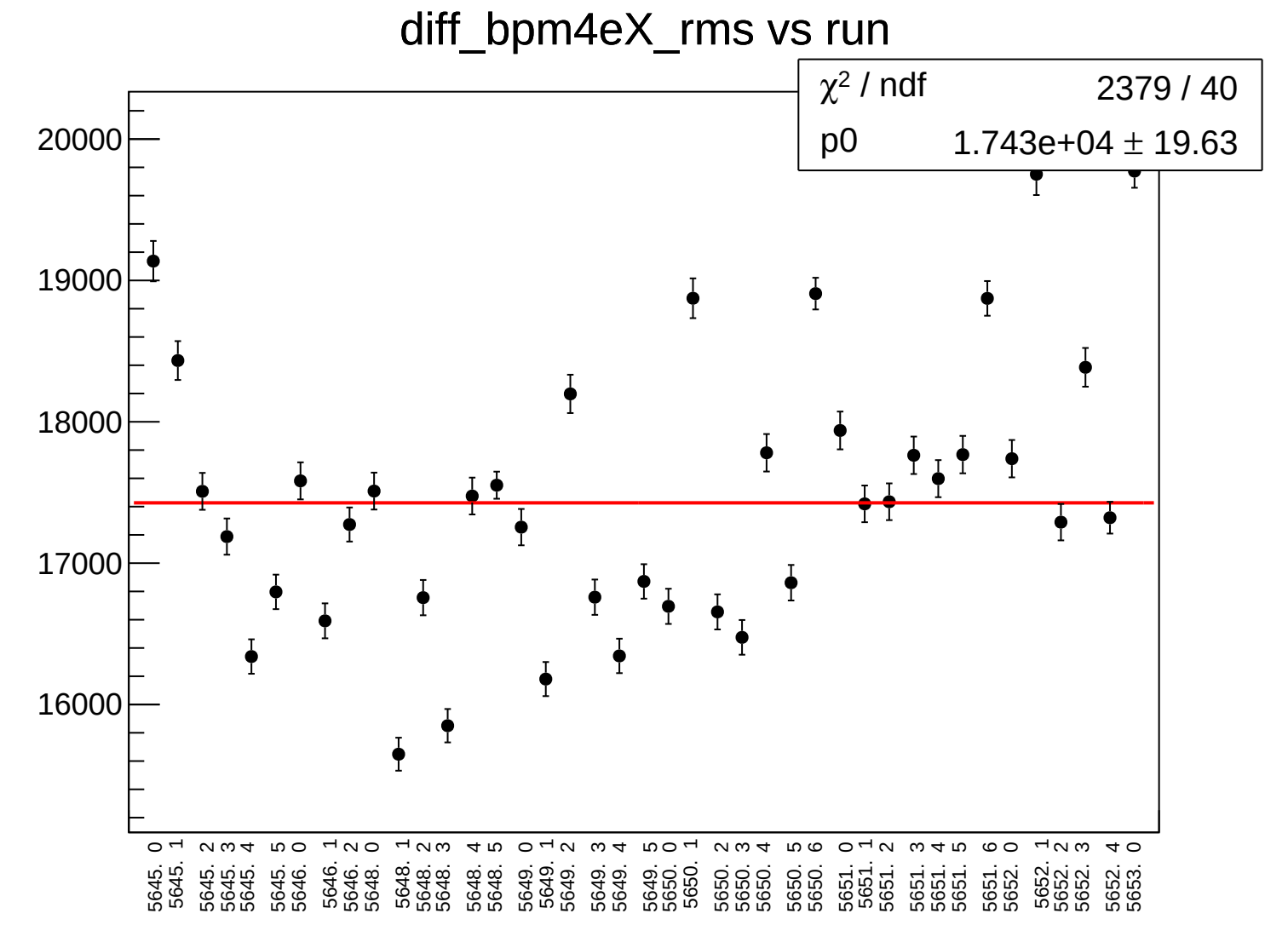

diff_bpm4aY_mean vs run
χ² / ndf 41.94 / 40
p0 −3.189 ± 13.91
300
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −141.6
Std Dev 0
2
1
0
−1
−2

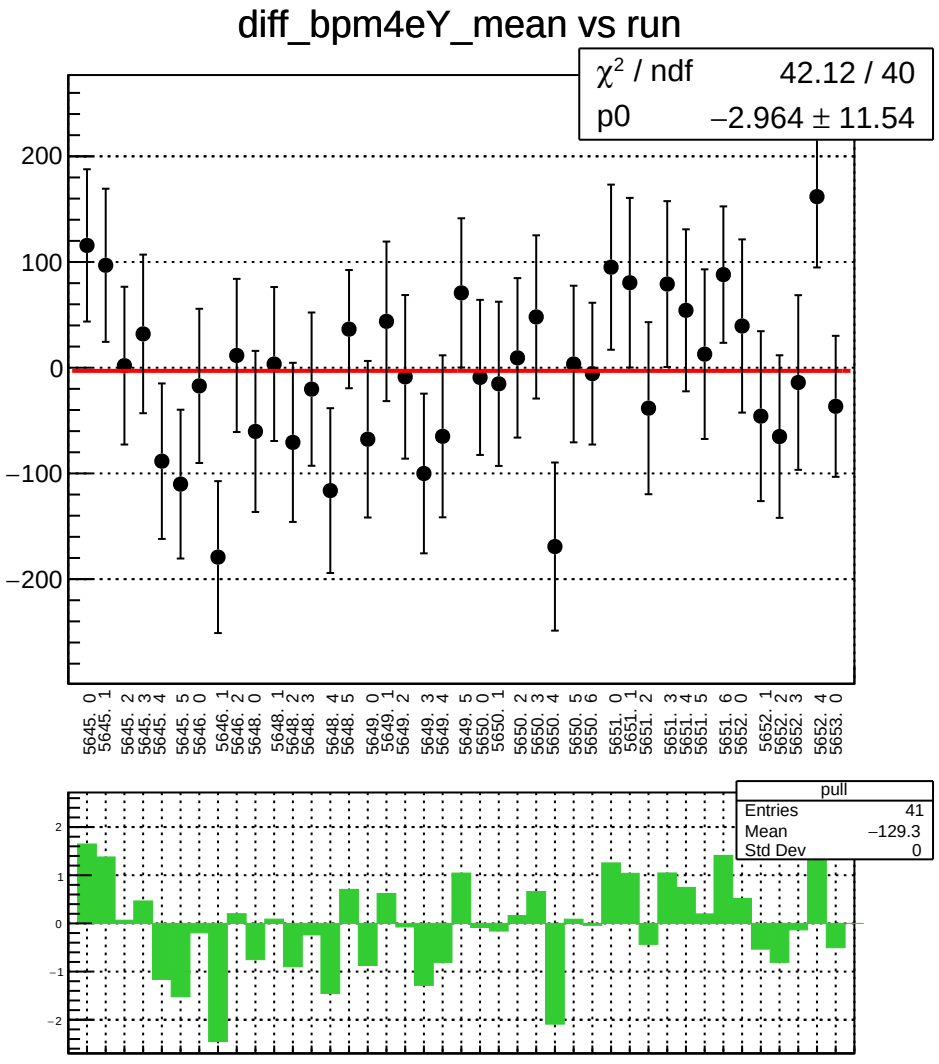

pull1D
Entries 41
Mean −0.01857
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

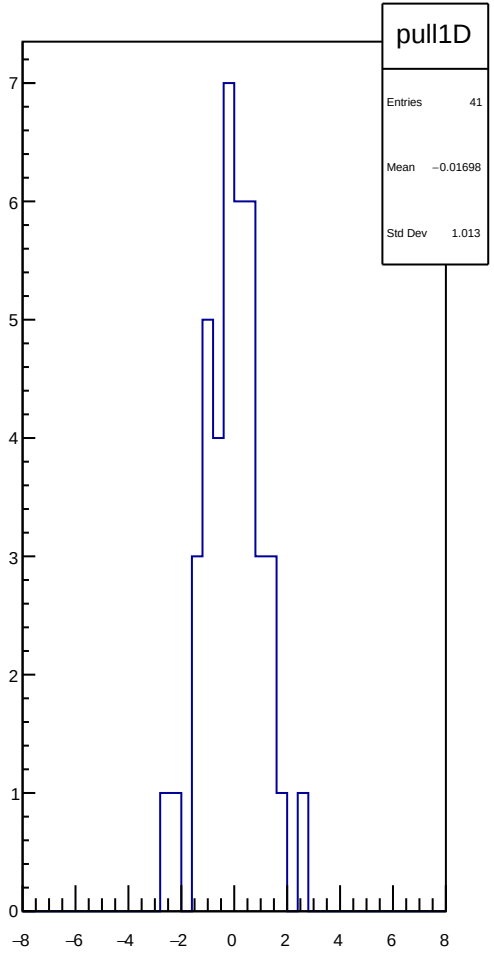

diff_bpm4aY_rms vs run
χ² / ndf 1432 / 40
p0 8738 ± 9.838
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

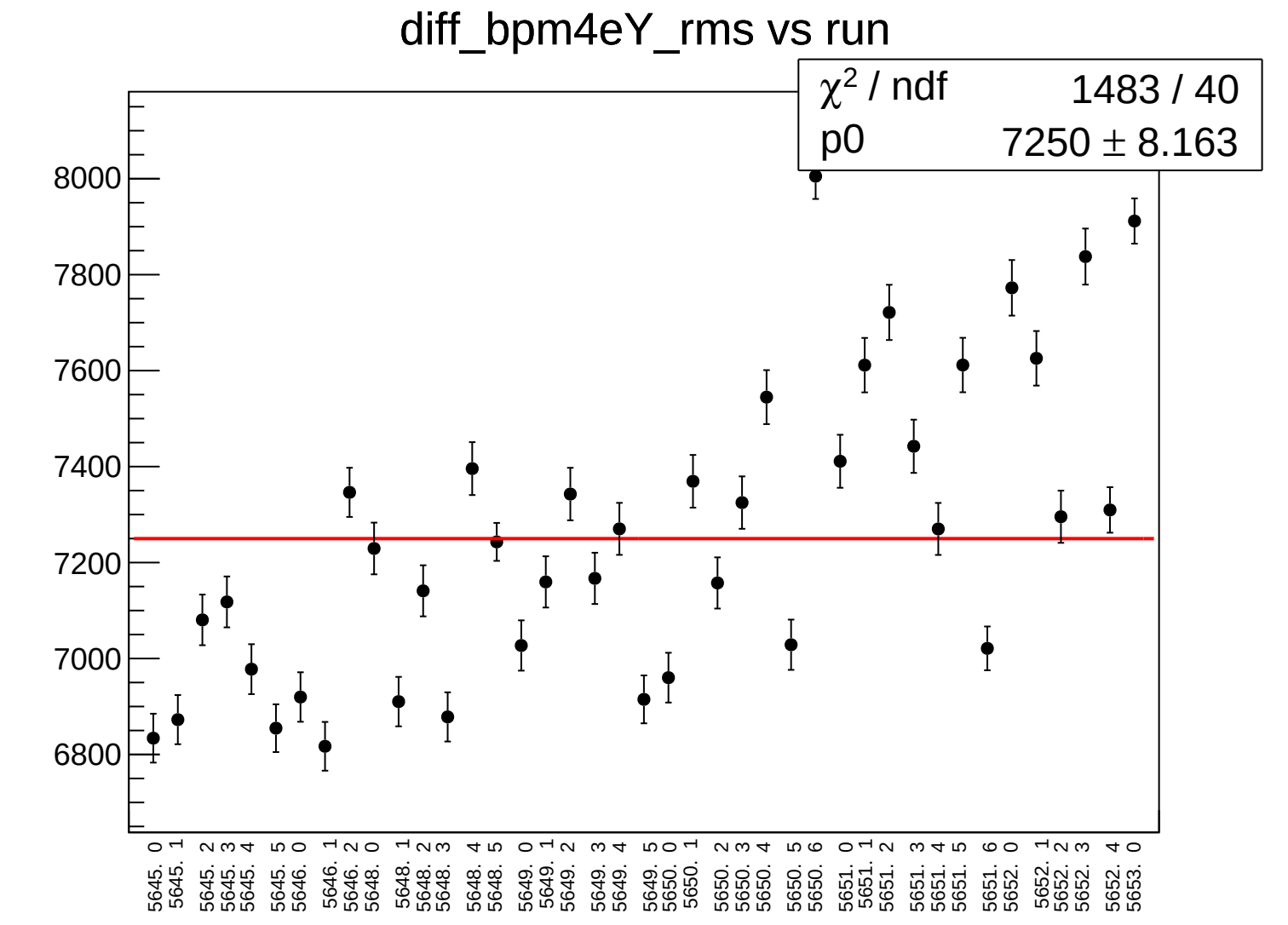

diff_bpm4eX_mean vs run
χ^2 / ndf 41.87 / 40
p0 21.43 ± 27.76
pull
Entries 41
Mean 93.23
Std Dev 5.534

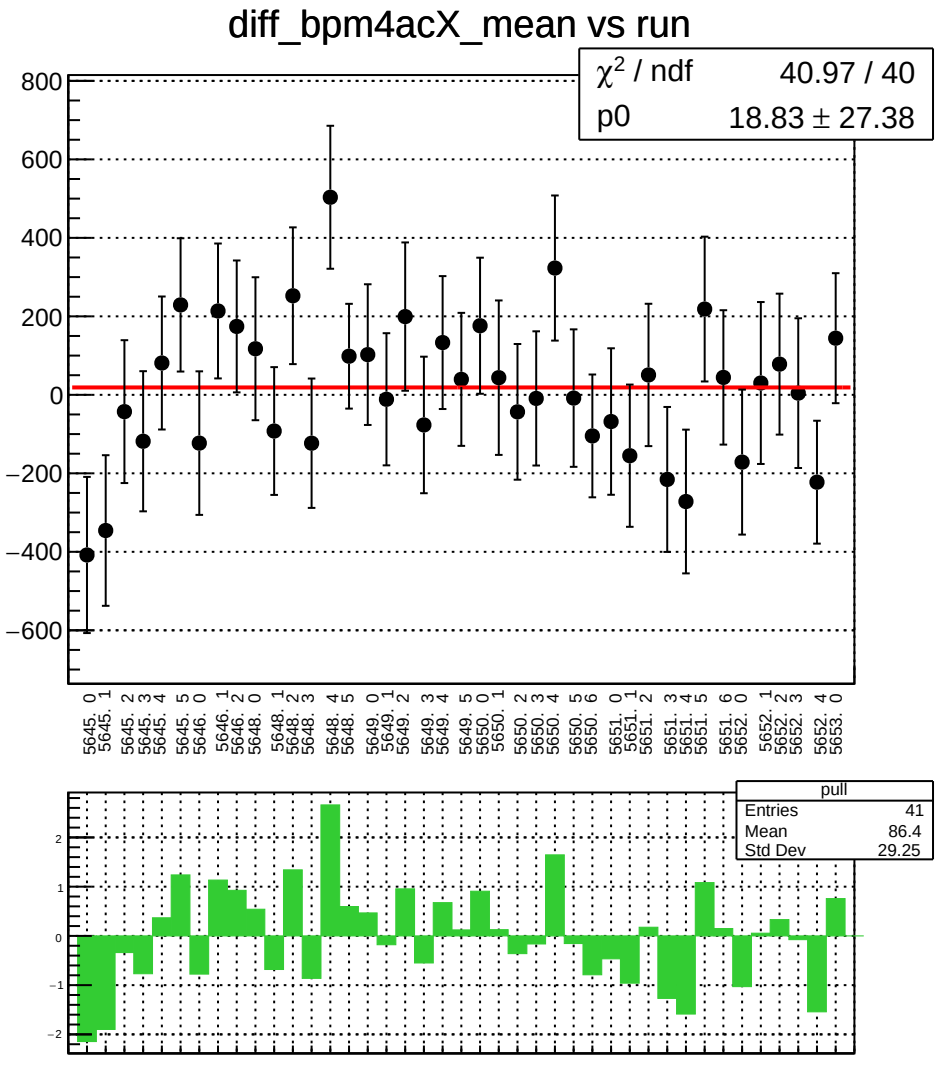

pull1D
Entries 41
Mean −0.008181
Std Dev 1.011

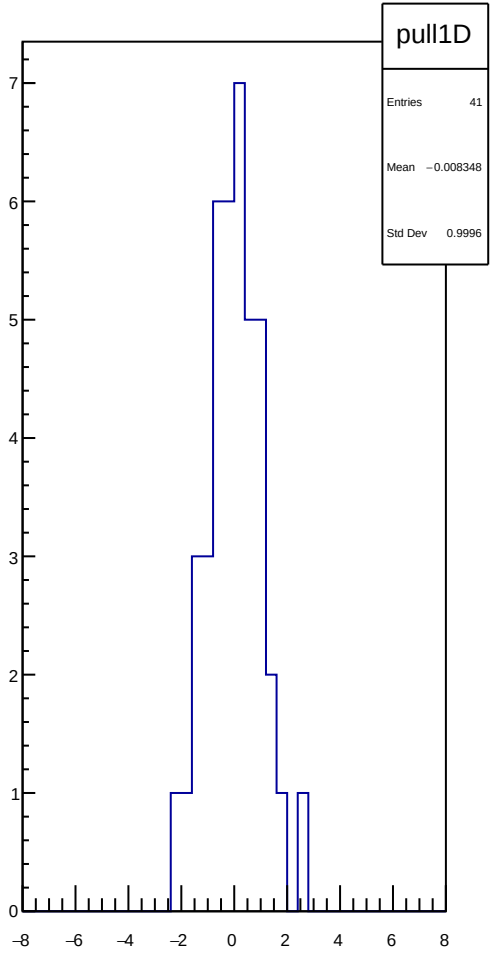

diff_bpm4eX_rms vs run
χ² / ndf 2379 / 40
p0 1.743e+04 ± 19.63
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

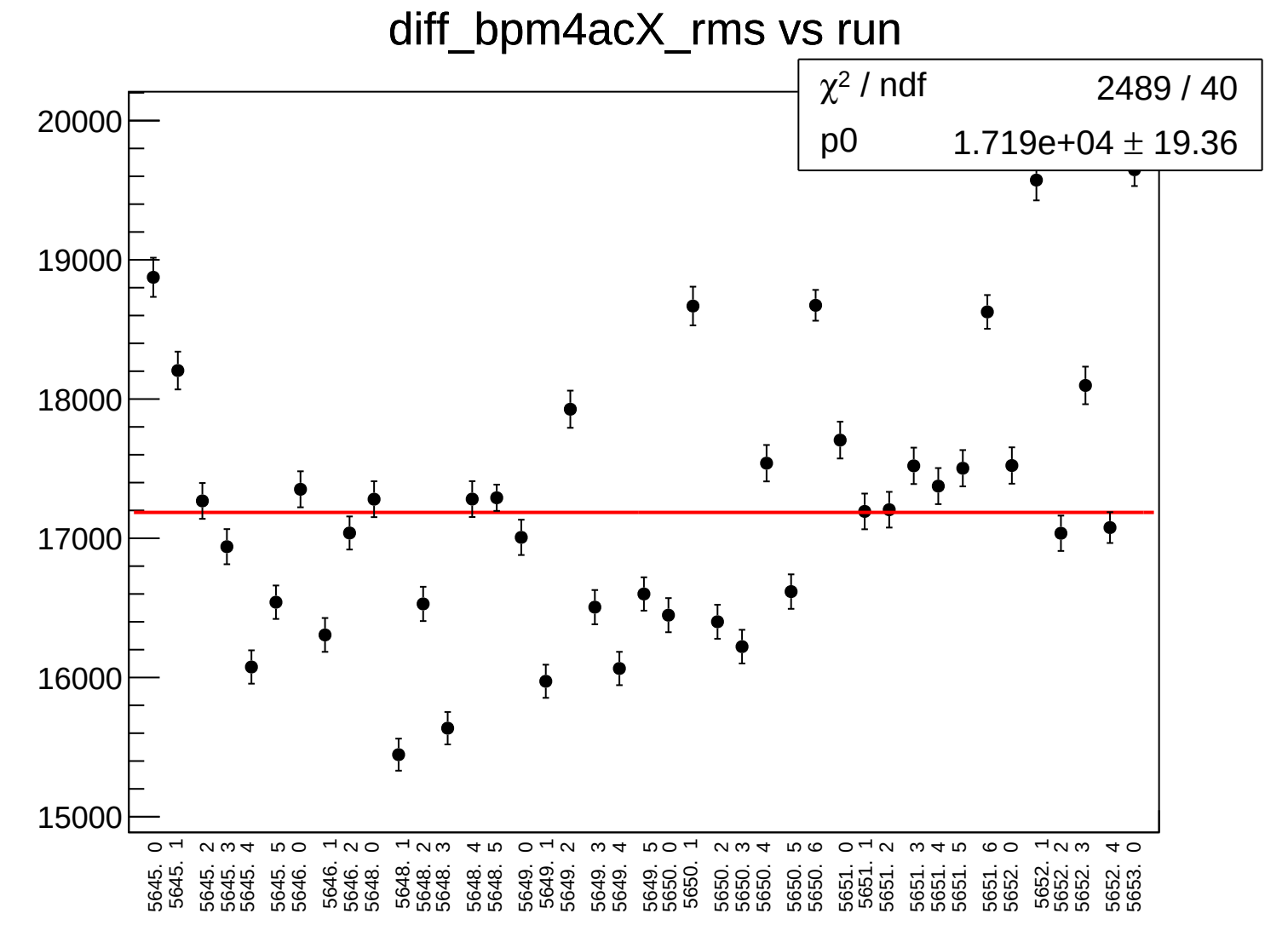

diff_bpm4eY_mean vs run
χ² / ndf 42.12 / 40
p0 −2.964 ± 11.54
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −129.3
Std Dev 0
2
1
0
−1
−2

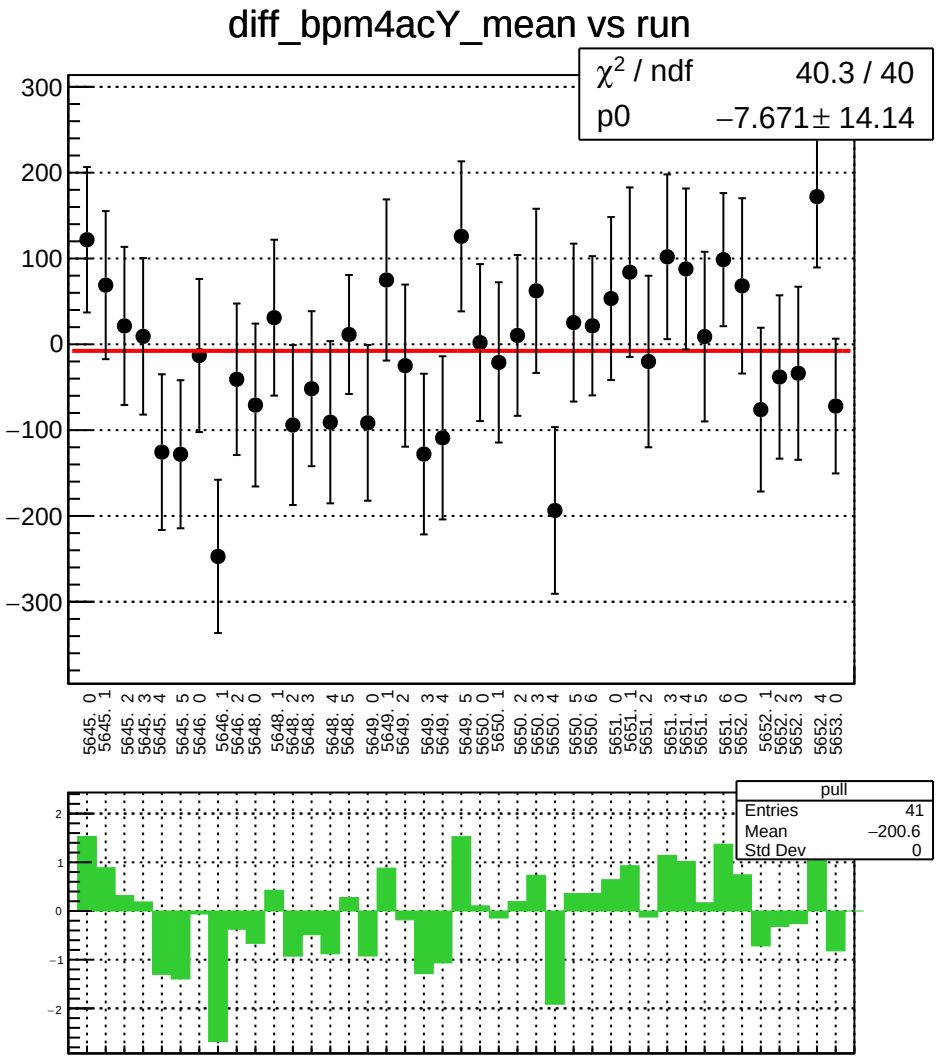

pull1D
Entries 41
Mean −0.01698
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

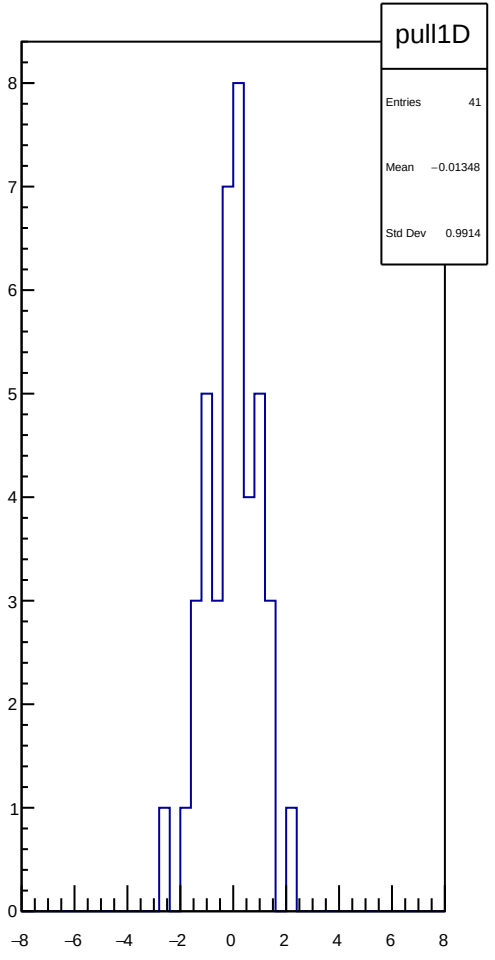

diff_bpm4eY_rms vs run
χ² / ndf 1483 / 40
p0 7250 ± 8.163
8000
7800
7600
7400
7200
7000
6800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

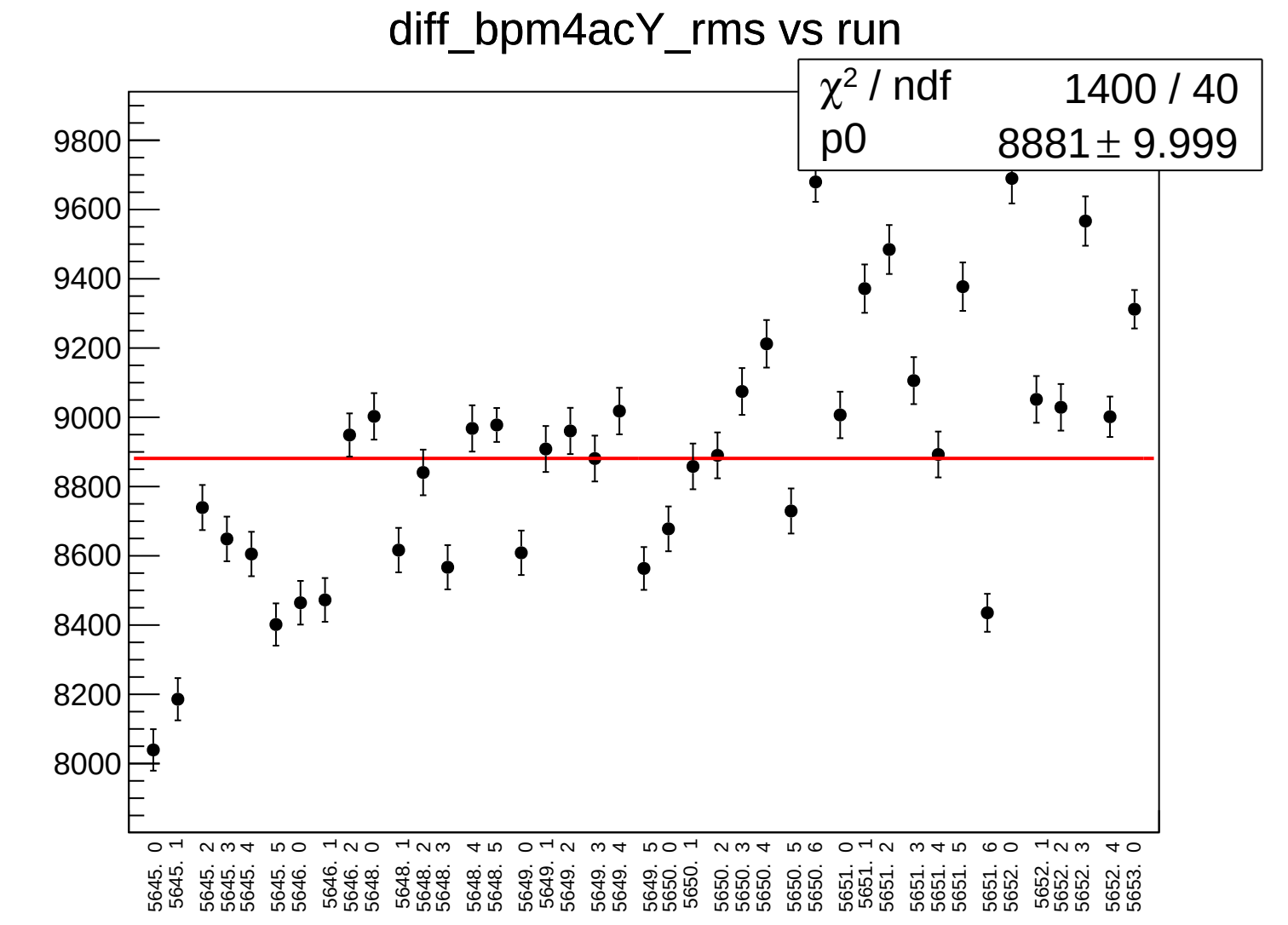

diff_bpm4acX_mean vs run
χ^2 / ndf 40.97 / 40
p0 18.83 ± 27.38
pull
Entries 41
Mean 86.4
Std Dev 29.25

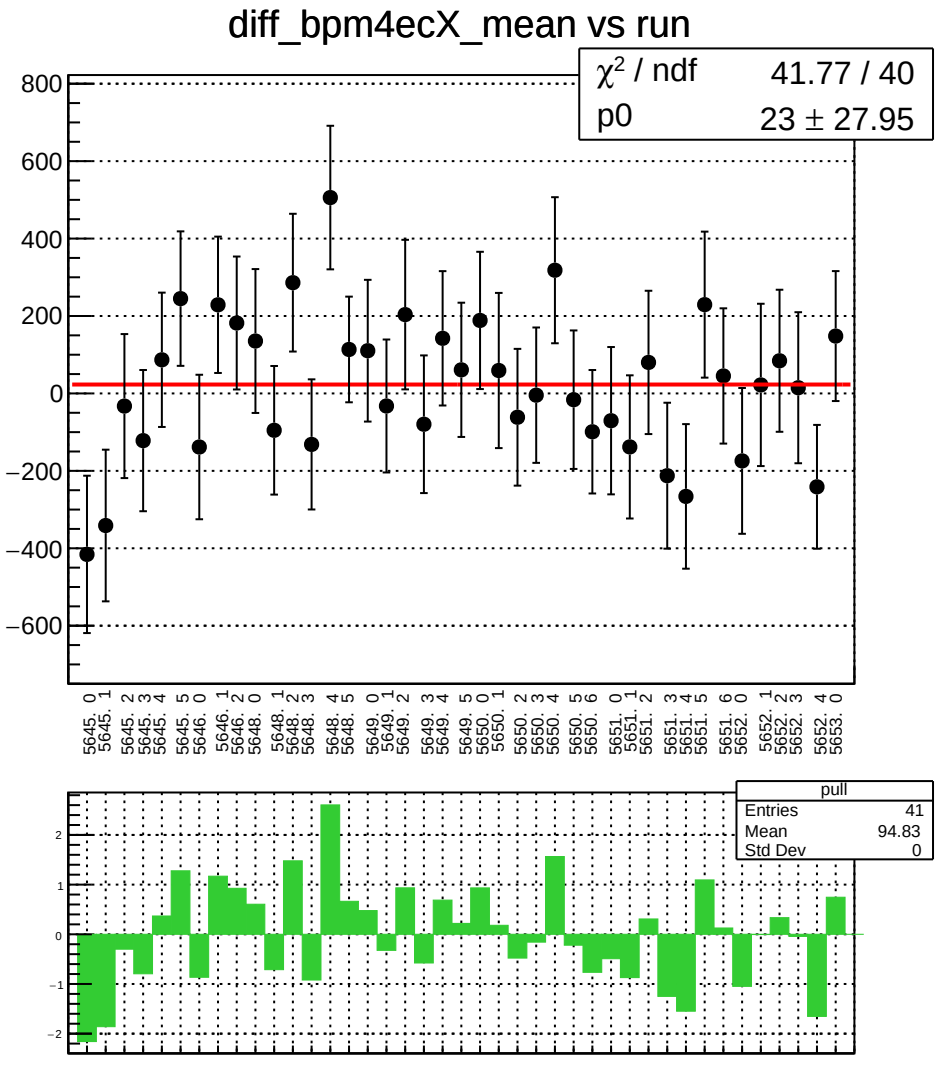

pull1D
Entries 41
Mean −0.008348
Std Dev 0.9996

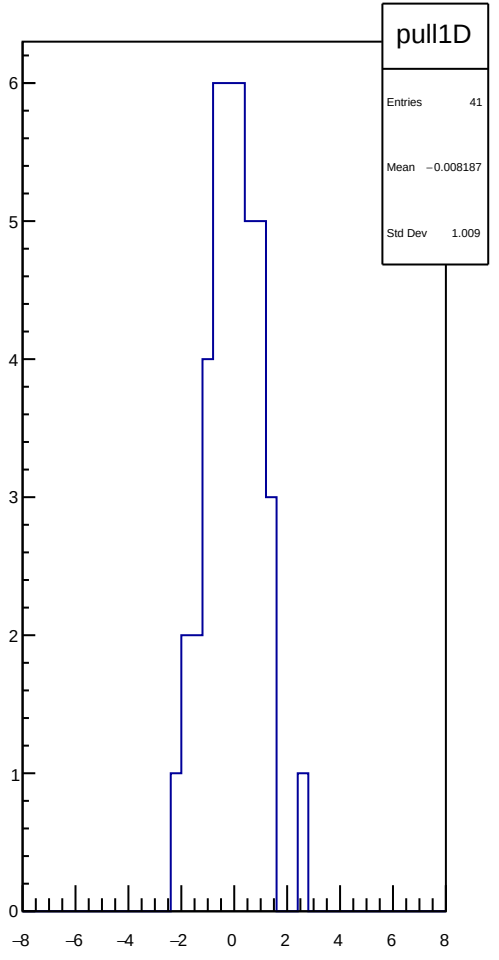

diff_bpm4acX_rms vs run
χ² / ndf 2489 / 40
p0 1.719e+04 ± 19.36
20000
19000
18000
17000
16000
15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

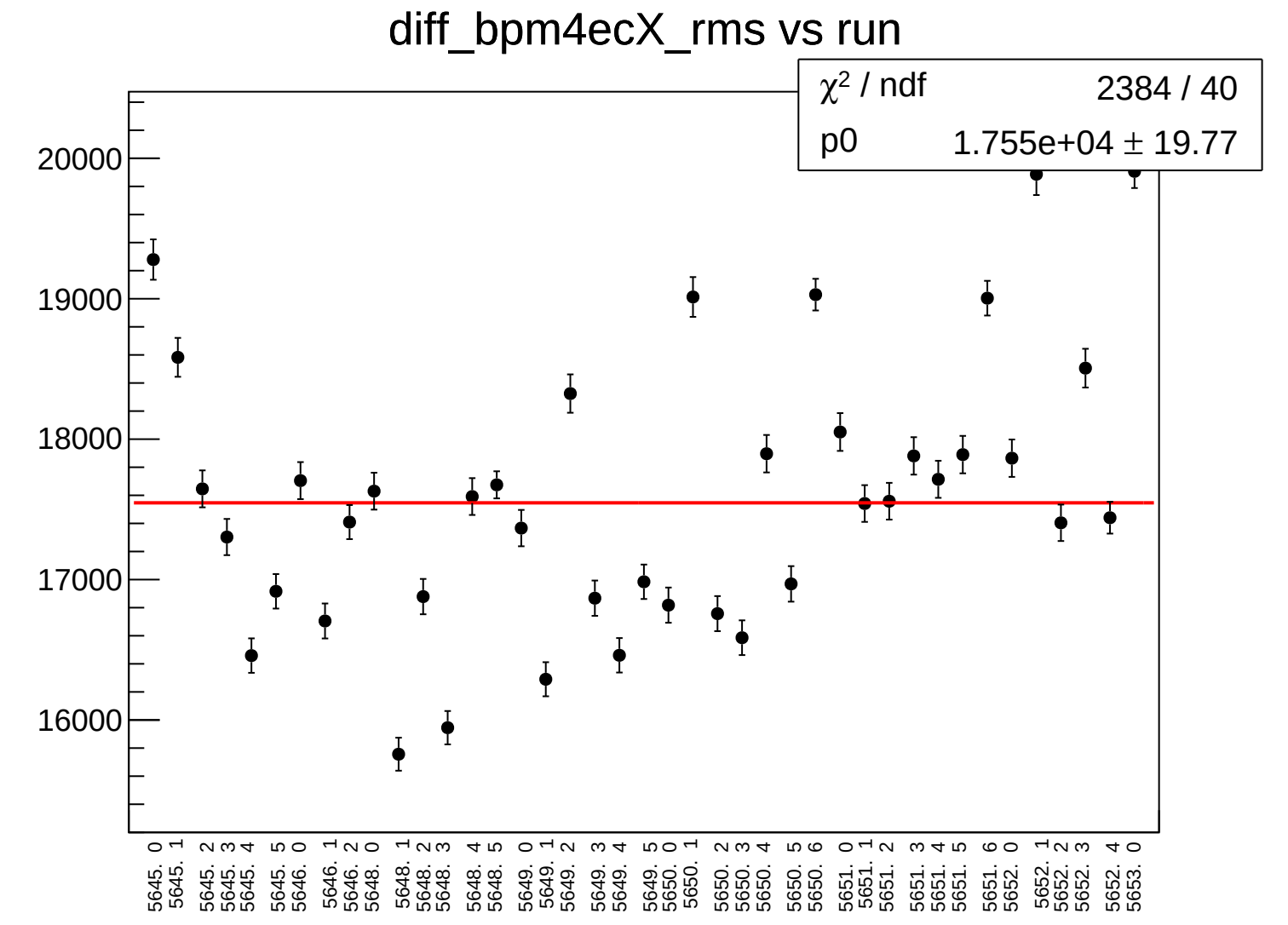

diff_bpm4acY_mean vs run
χ² / ndf 40.3 / 40
p0 −7.671± 14.14
300
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −200.6
Std Dev 0
2
1
0
−1
−2

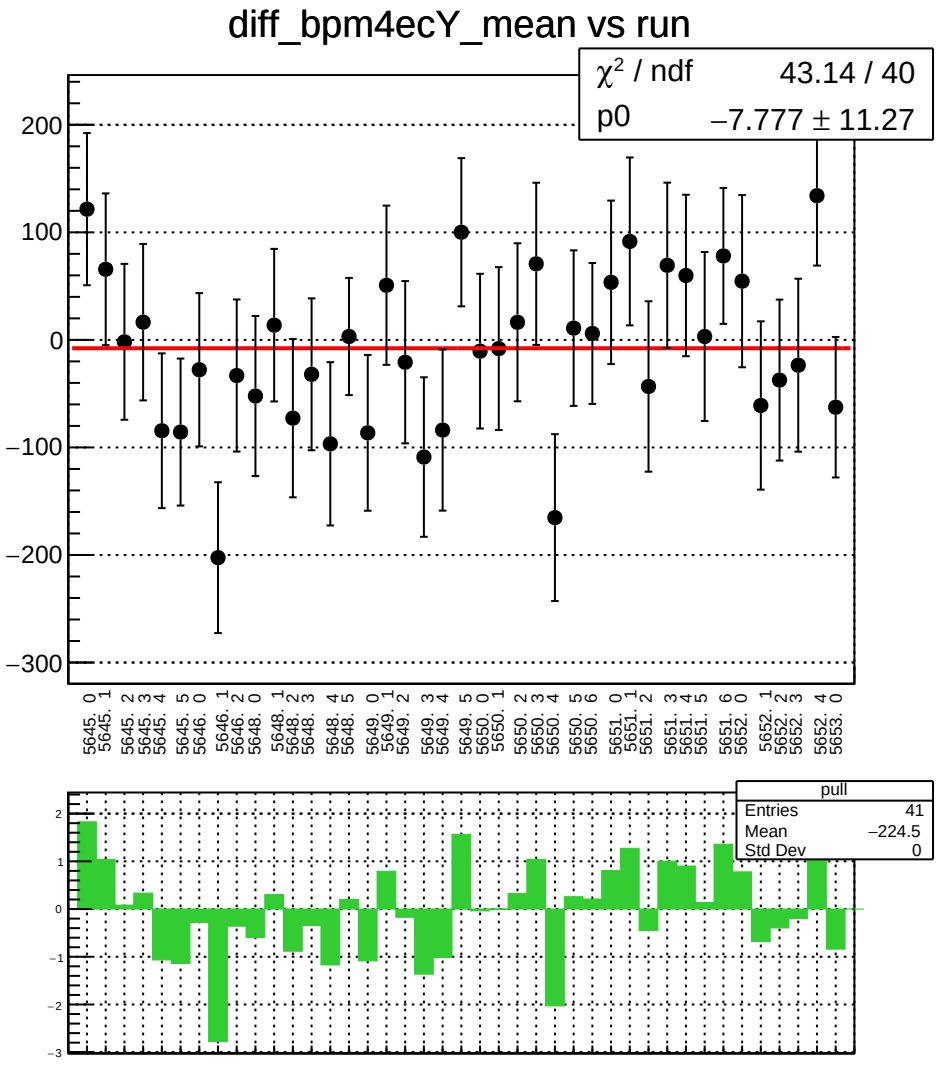

pull1D
Entries 41
Mean −0.01348
Std Dev 0.9914
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

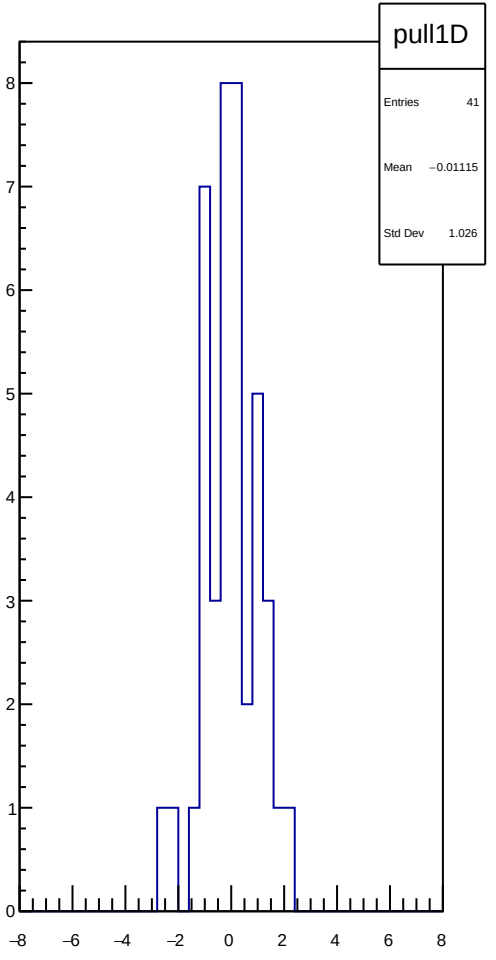

diff_bpm4acY_rms vs run
χ² / ndf 1400 / 40
p0 8881 ± 9.999
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

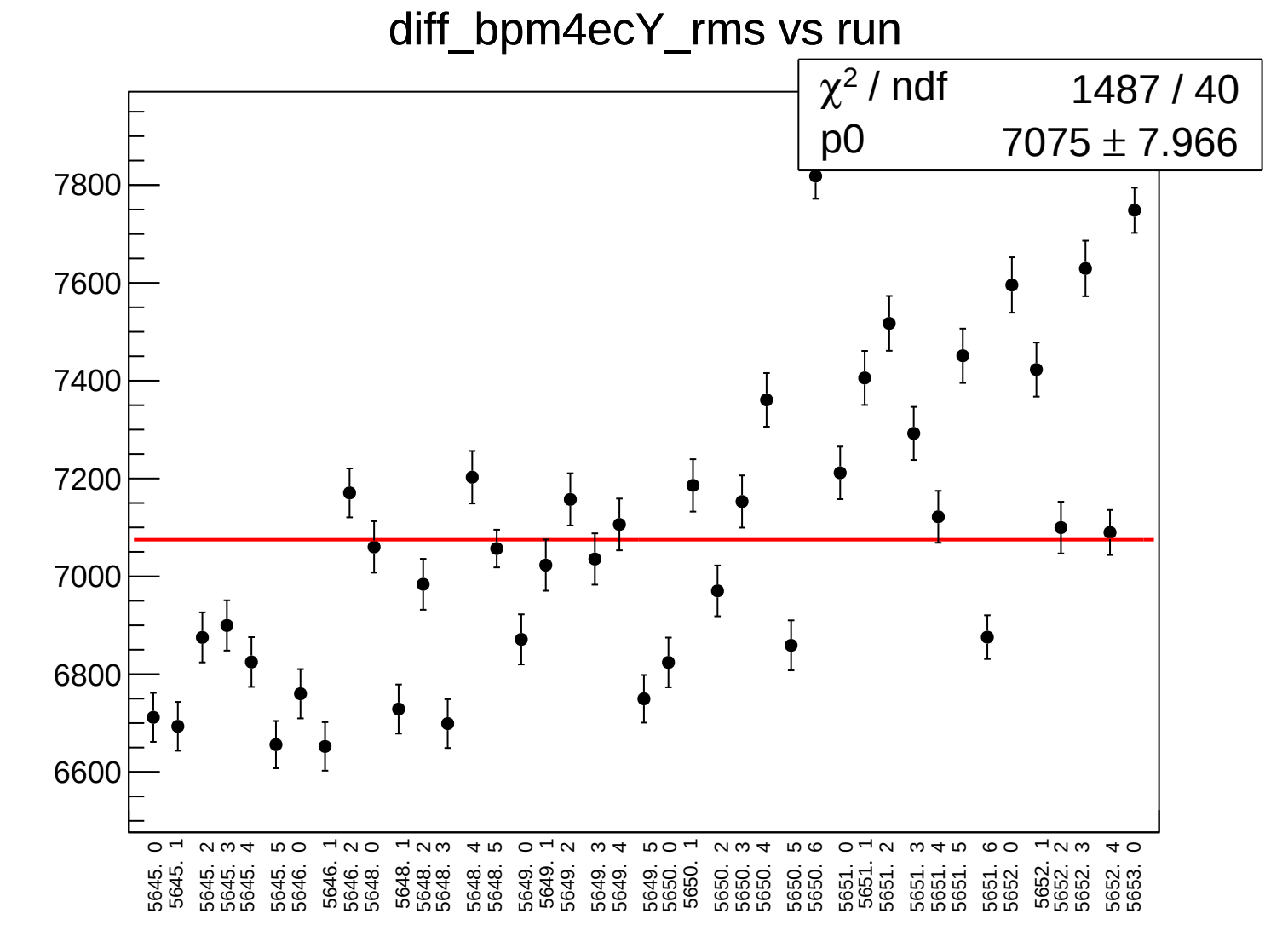

diff_bpm4ecX_mean vs run
χ² / ndf 41.77 / 40
p0 23 ± 27.95
800
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 94.83
Std Dev 0
2
1
0
−1
−2

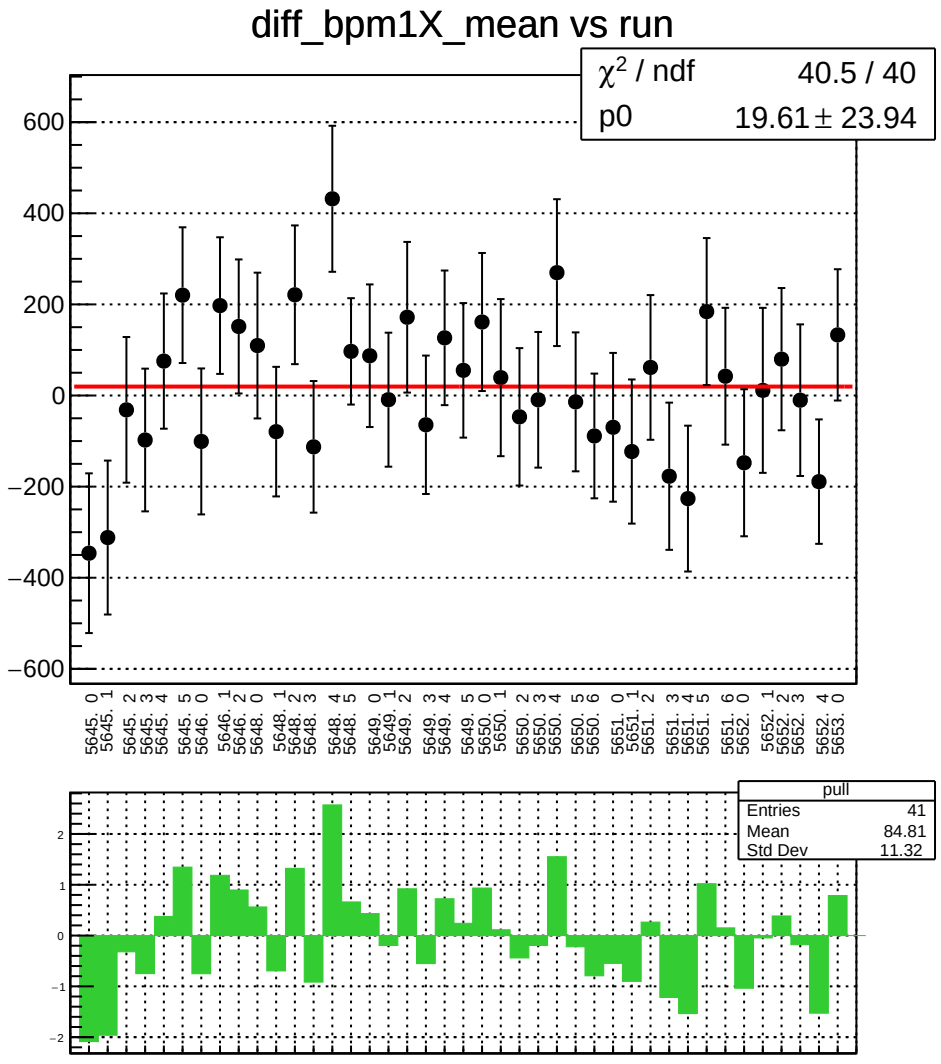

pull1D
Entries 41
Mean −0.008187
Std Dev 1.009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

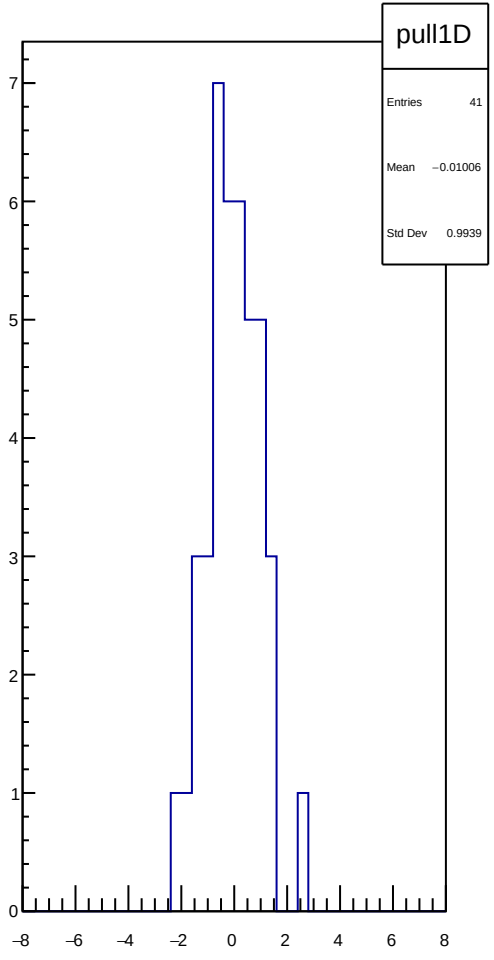

diff_bpm4ecX_rms vs run
χ² / ndf 2384 / 40
p0 1.755e+04 ± 19.77
20000
19000
18000
17000
16000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

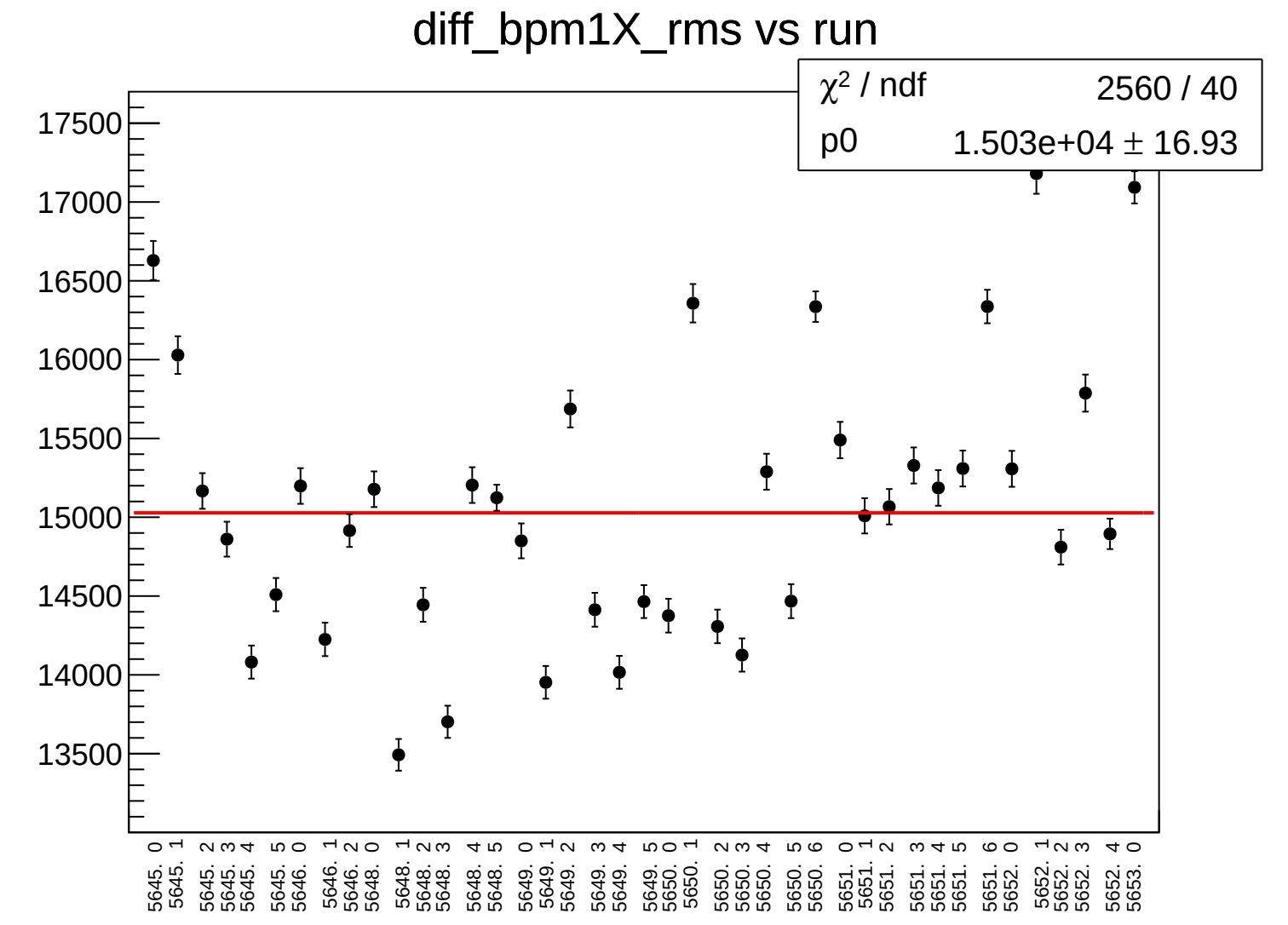

diff_bpm4ecY_mean vs run
χ² / ndf 43.14 / 40
p0 −7.777 ± 11.27
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −224.5
Std Dev 0
2
1
0
−1
−2
−3

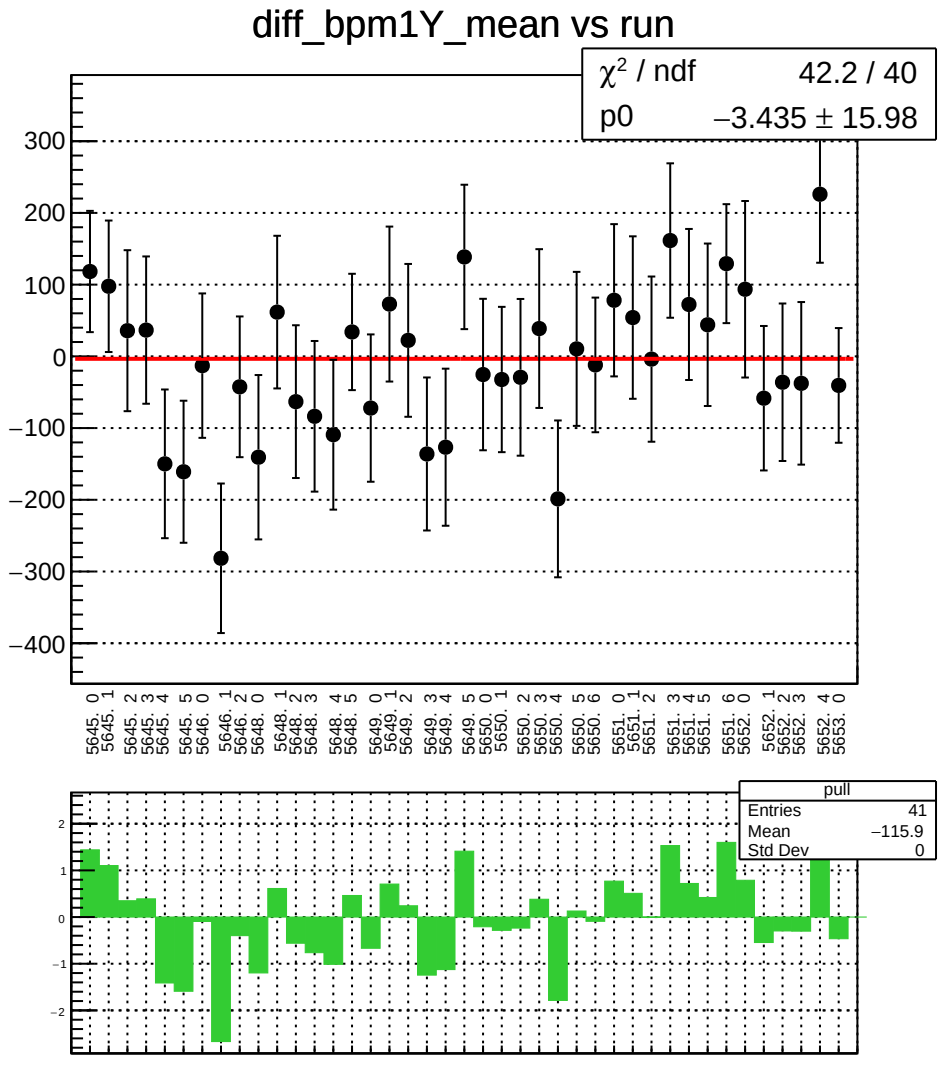

pull1D
Entries 41
Mean −0.01115
Std Dev 1.026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

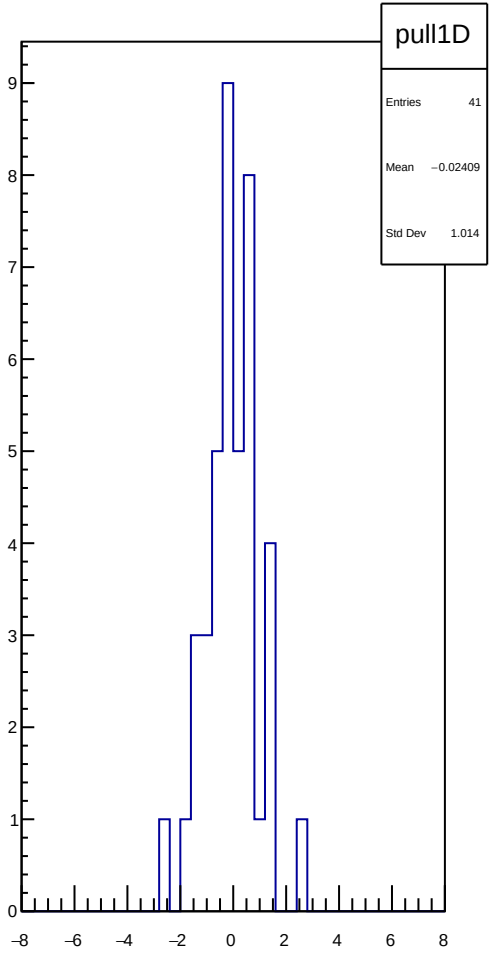

diff_bpm4ecY_rms vs run
χ² / ndf 1487 / 40
p0 7075 ± 7.966
7800
7600
7400
7200
7000
6800
6600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

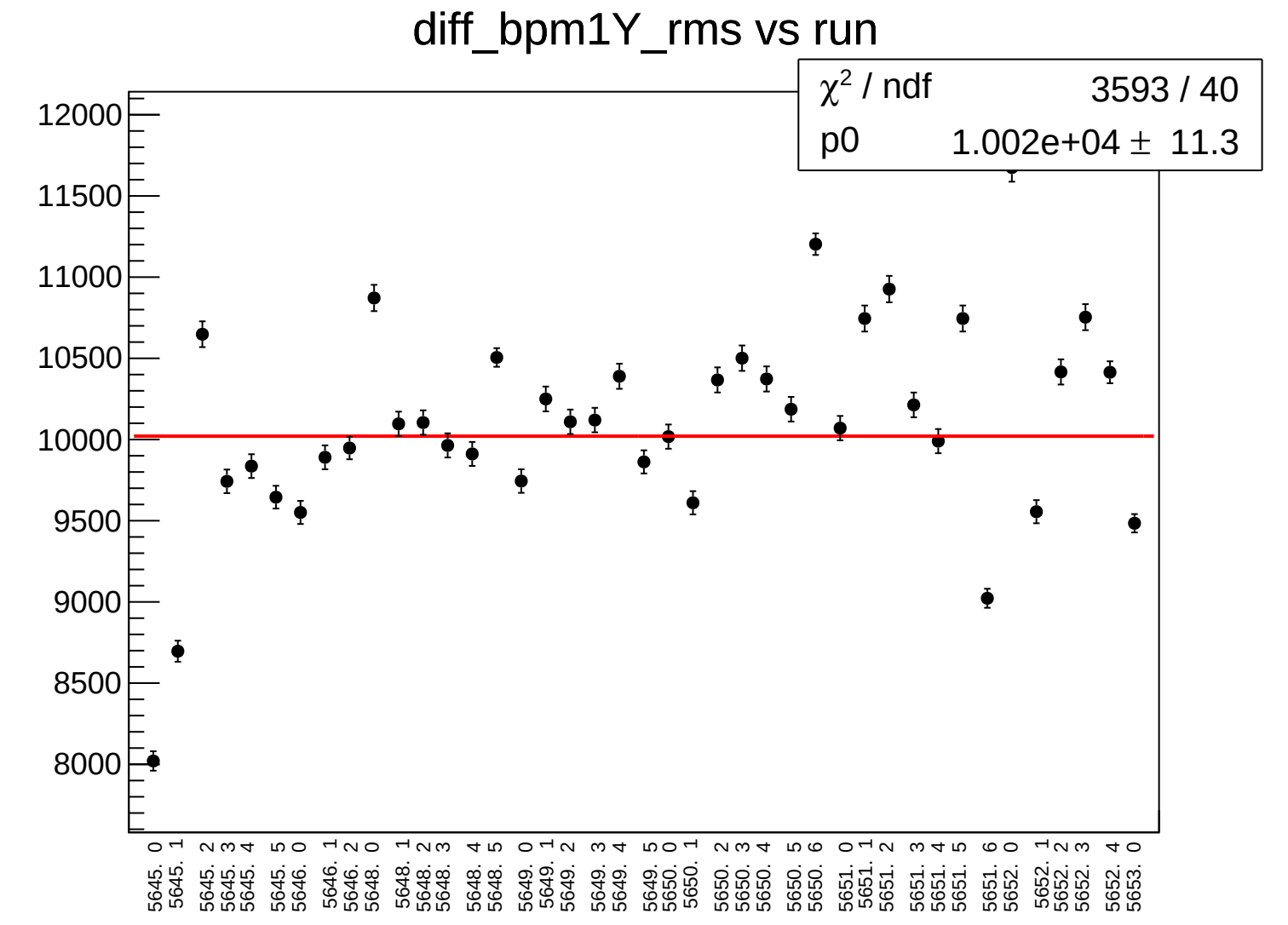

diff_bpm1X_mean vs run
χ² / ndf 40.5 / 40
p0 19.61 ± 23.94
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 84.81
Std Dev 11.32
2
1
0
−1
−2

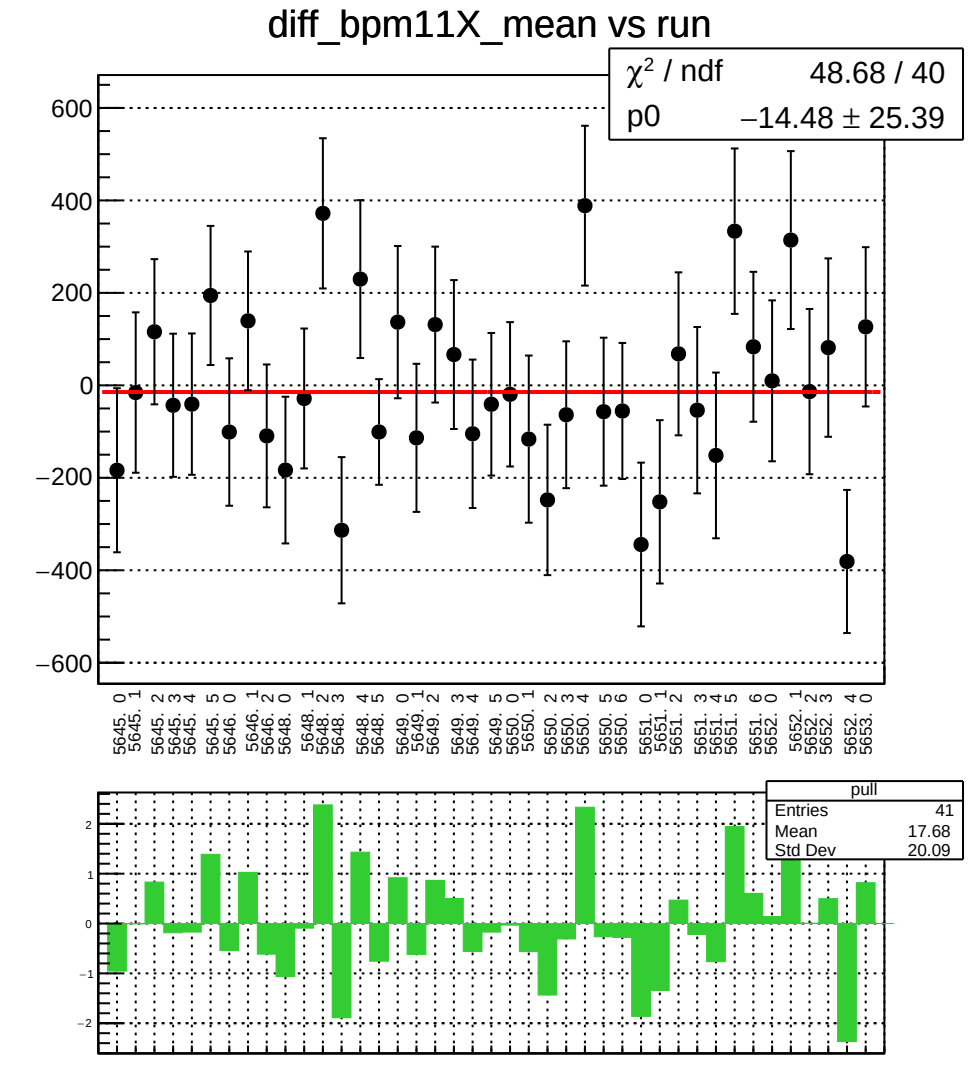

pull1D
Entries 41
Mean −0.01006
Std Dev 0.9939
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

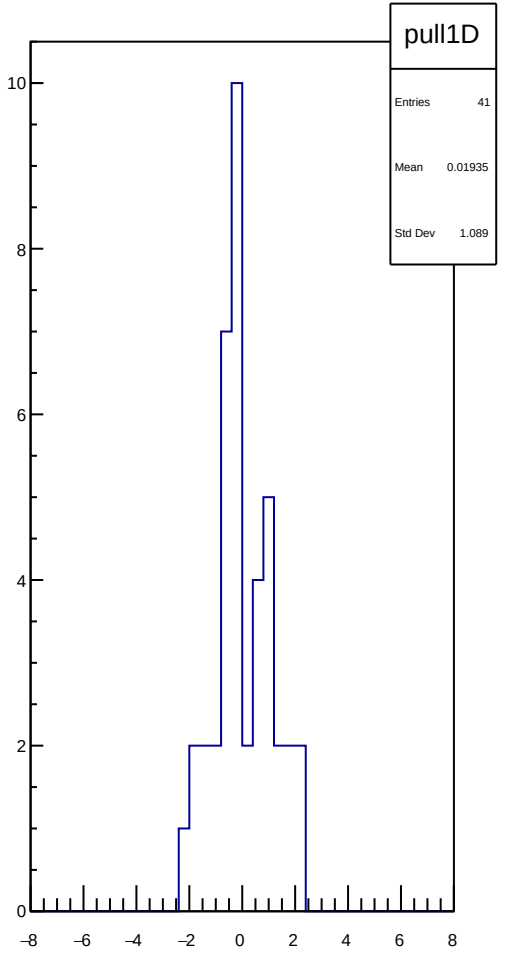

diff_bpm1X_rms vs run
χ² / ndf 2560 / 40
p0 1.503e+04 ± 16.93
17500
17000
16500
16000
15500
15000
14500
14000
13500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

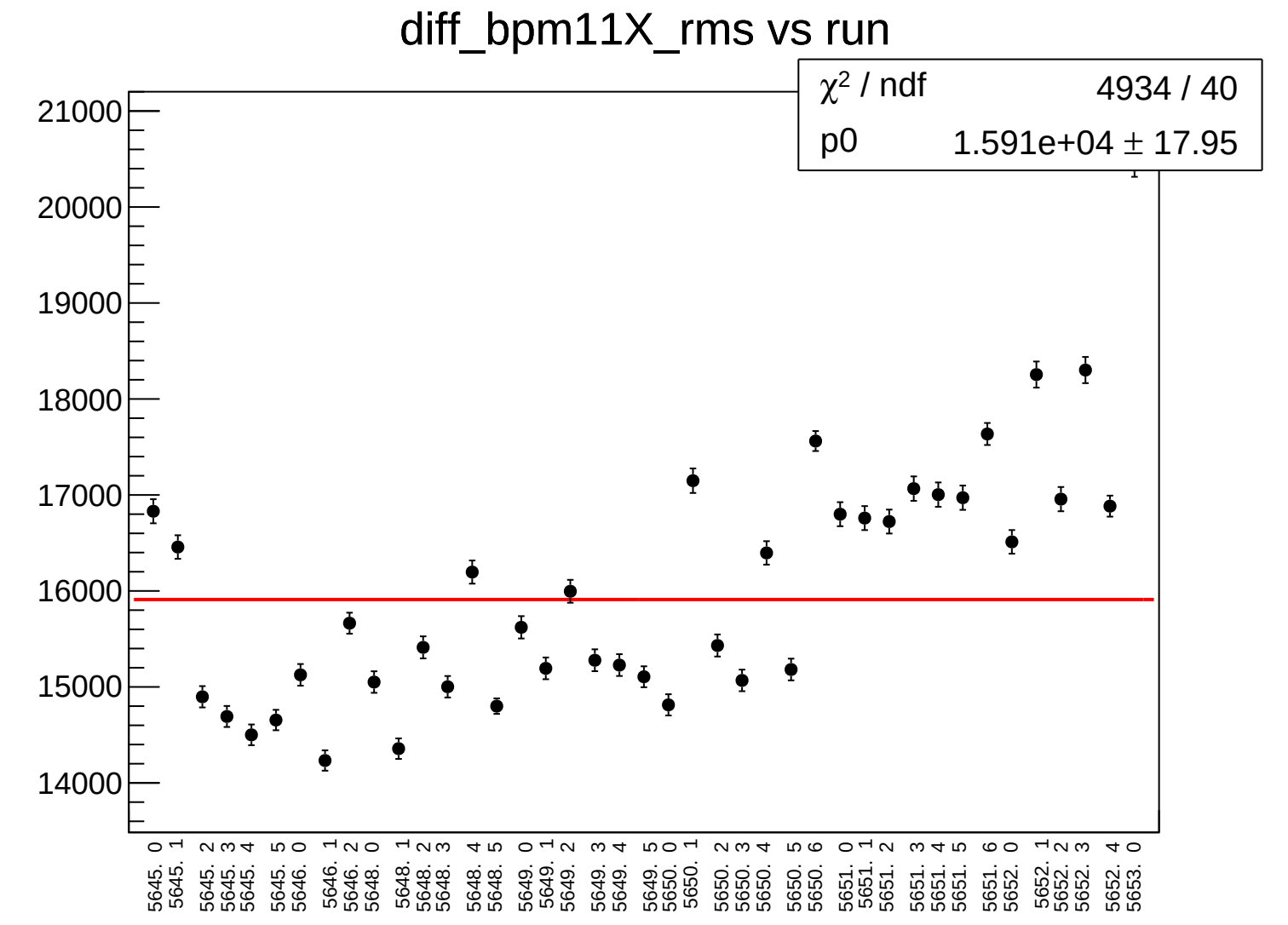

diff_bpm1Y_mean vs run
χ² / ndf 42.2 / 40
p0 −3.435 ± 15.98
300
200
100
0
−100
−200
−300
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −115.9
Std Dev 0
2
1
0
−1
−2

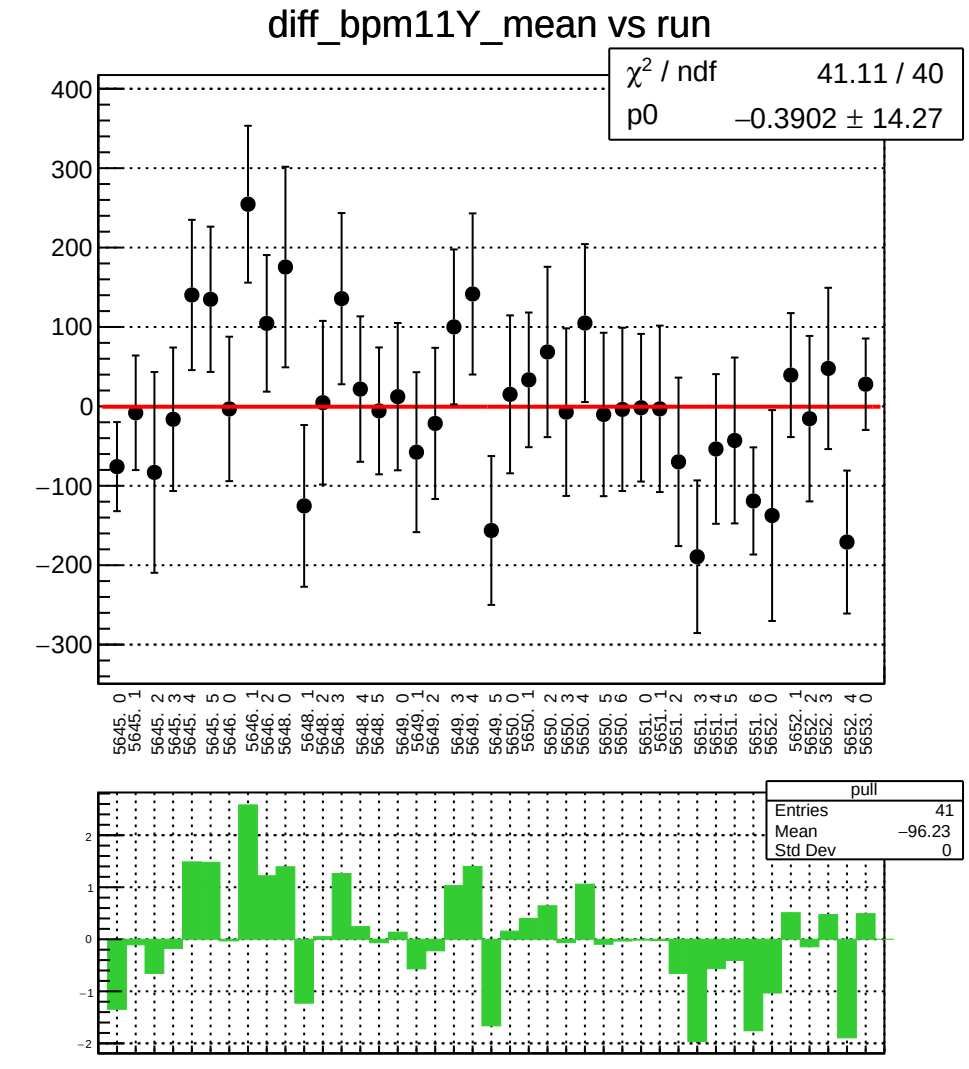

pull1D
Entries 41
Mean −0.02409
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

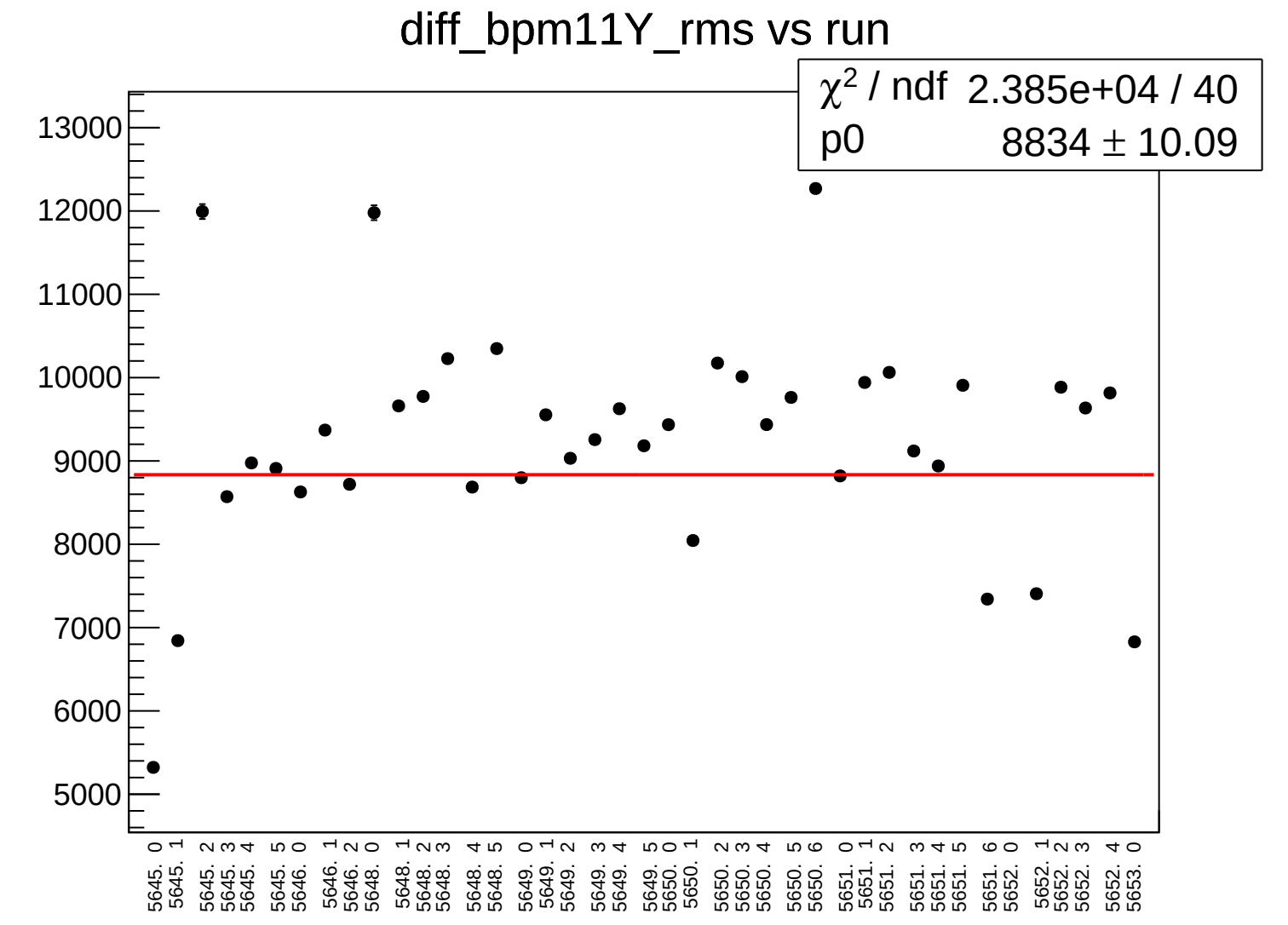

diff_bpm1Y_rms vs run
χ² / ndf 3593 / 40
p0 1.002e+04 ± 11.3
12000
11500
11000
10500
10000
9500
9000
8500
8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

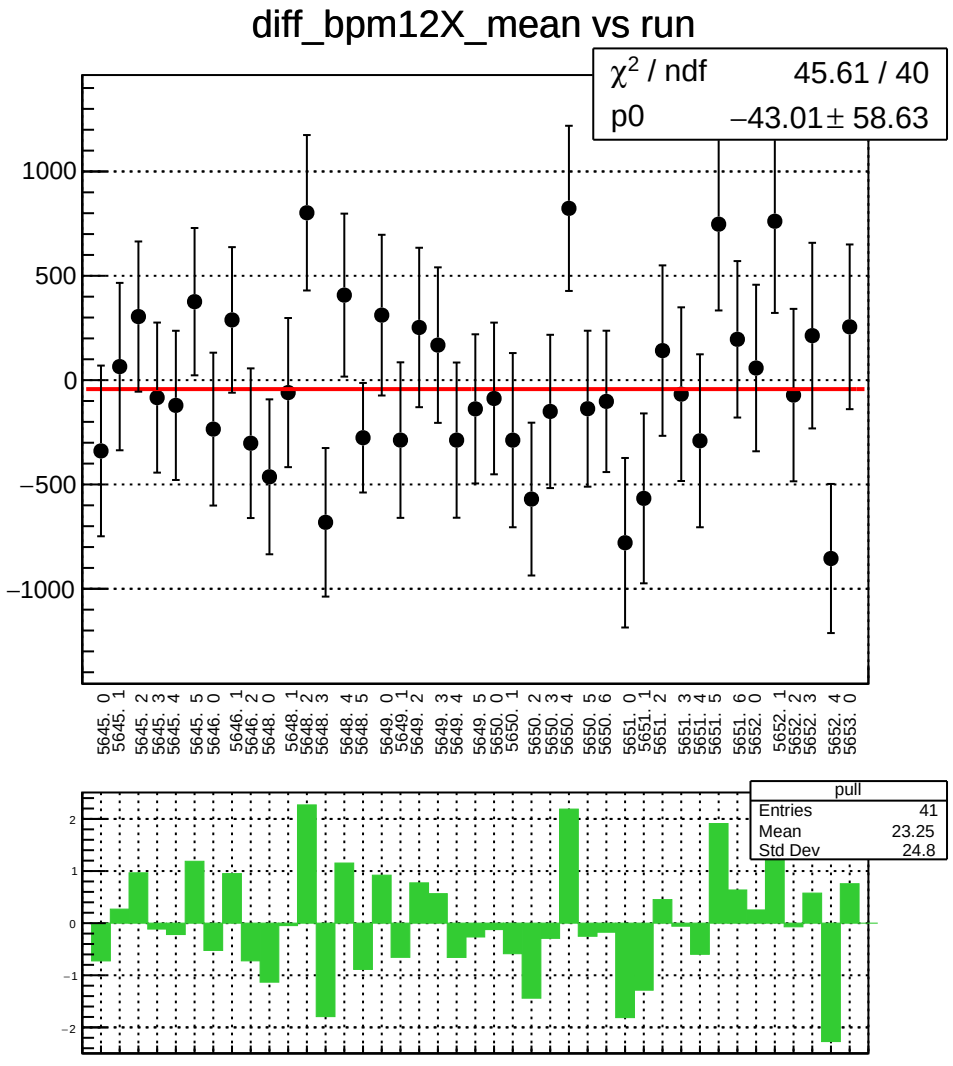

diff_bpm11X_mean vs run
χ² / ndf 48.68 / 40
p0 −14.48 ± 25.39
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 17.68
Std Dev 20.09
2
1
0
−1
−2

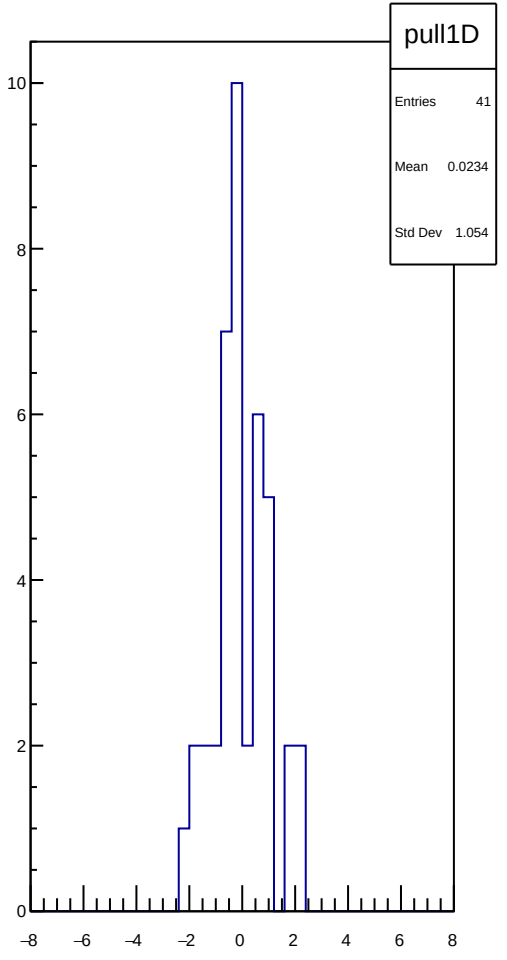

pull1D
Entries 41
Mean 0.01935
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

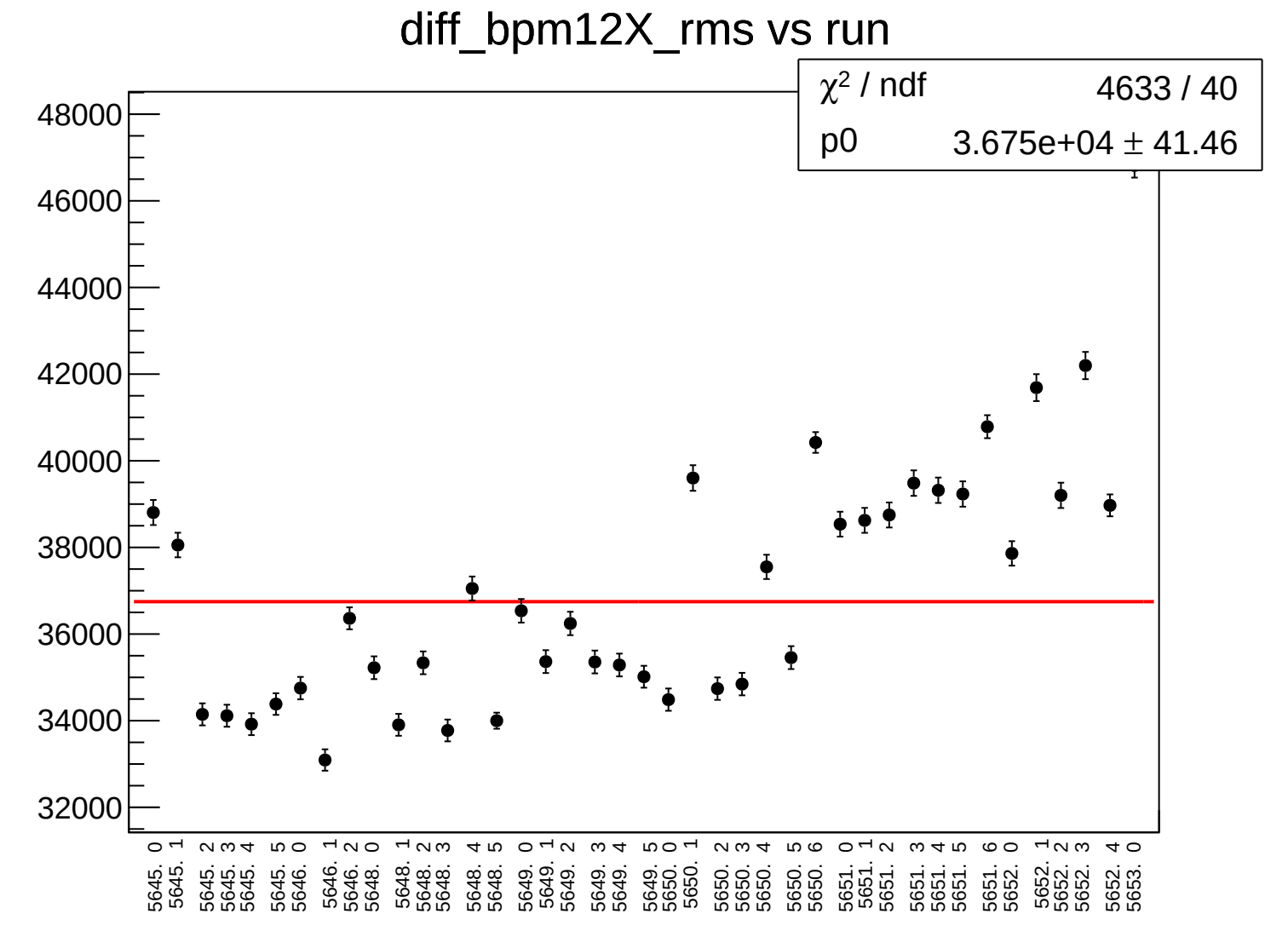

diff_bpm11X_rms vs run
χ² / ndf 4934 / 40
p0 1.591e+04 ± 17.95
21000
20000
19000
18000
17000
16000
15000
14000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

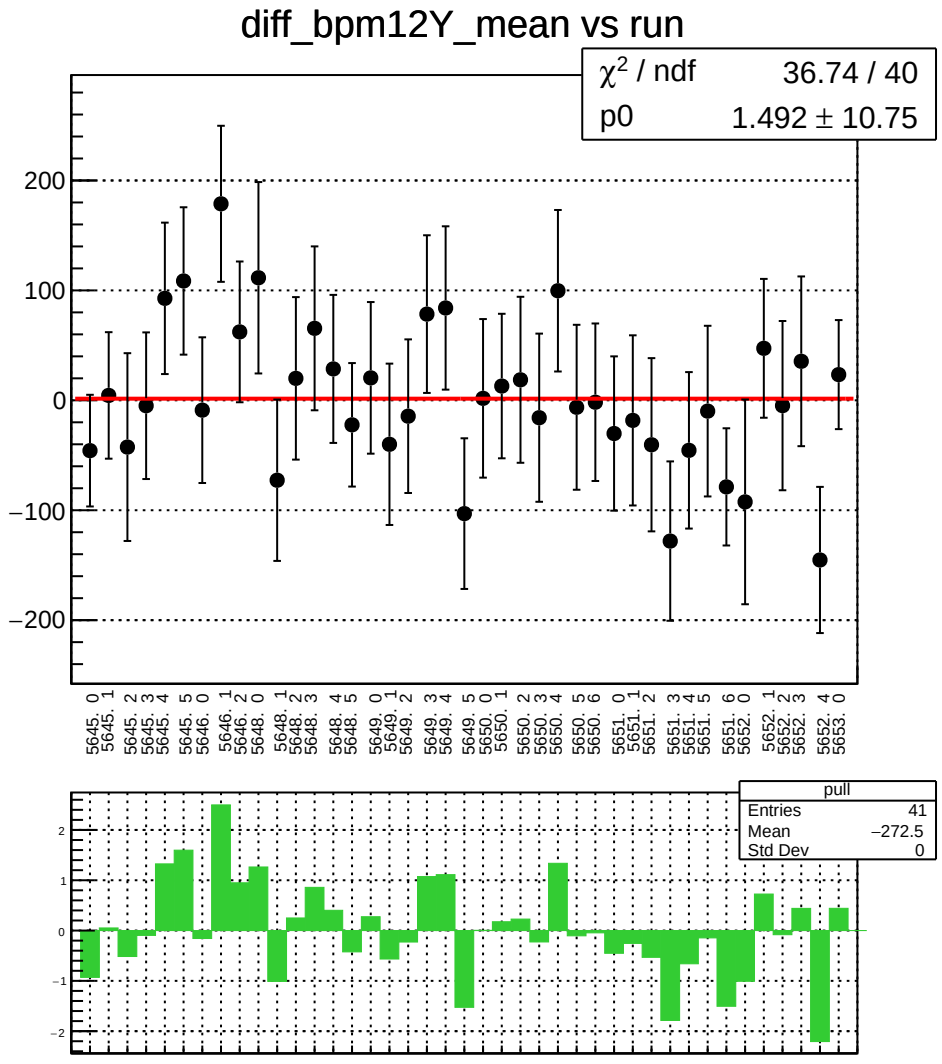

diff_bpm11Y_mean vs run
χ² / ndf 41.11 / 40
p0 −0.3902 ± 14.27
pull
Entries 41
Mean −96.23
Std Dev 0
pull1D
Entries 41
Mean 0.03168
Std Dev 1.001

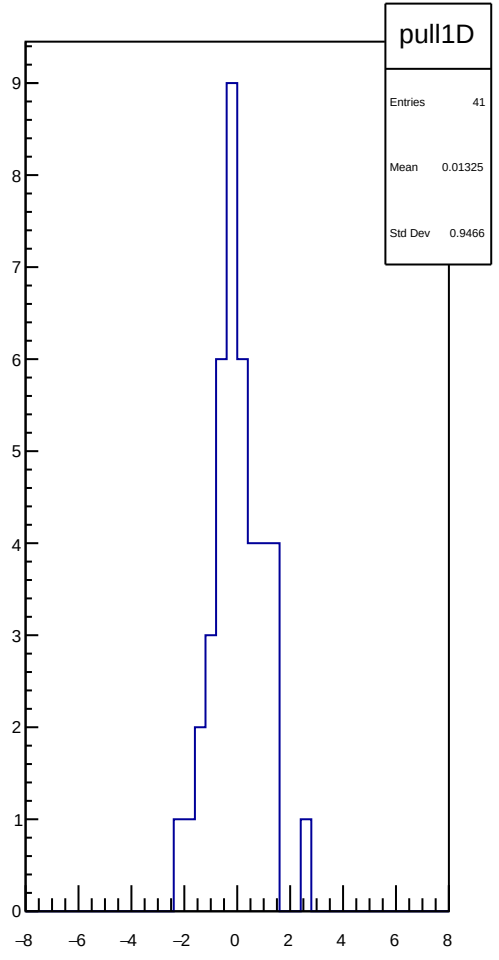

diff_bpm11Y_rms vs run
χ² / ndf 2.385e+04 / 40
p0 8834 ± 10.09
13000
12000
11000
10000
9000
8000
7000
6000
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

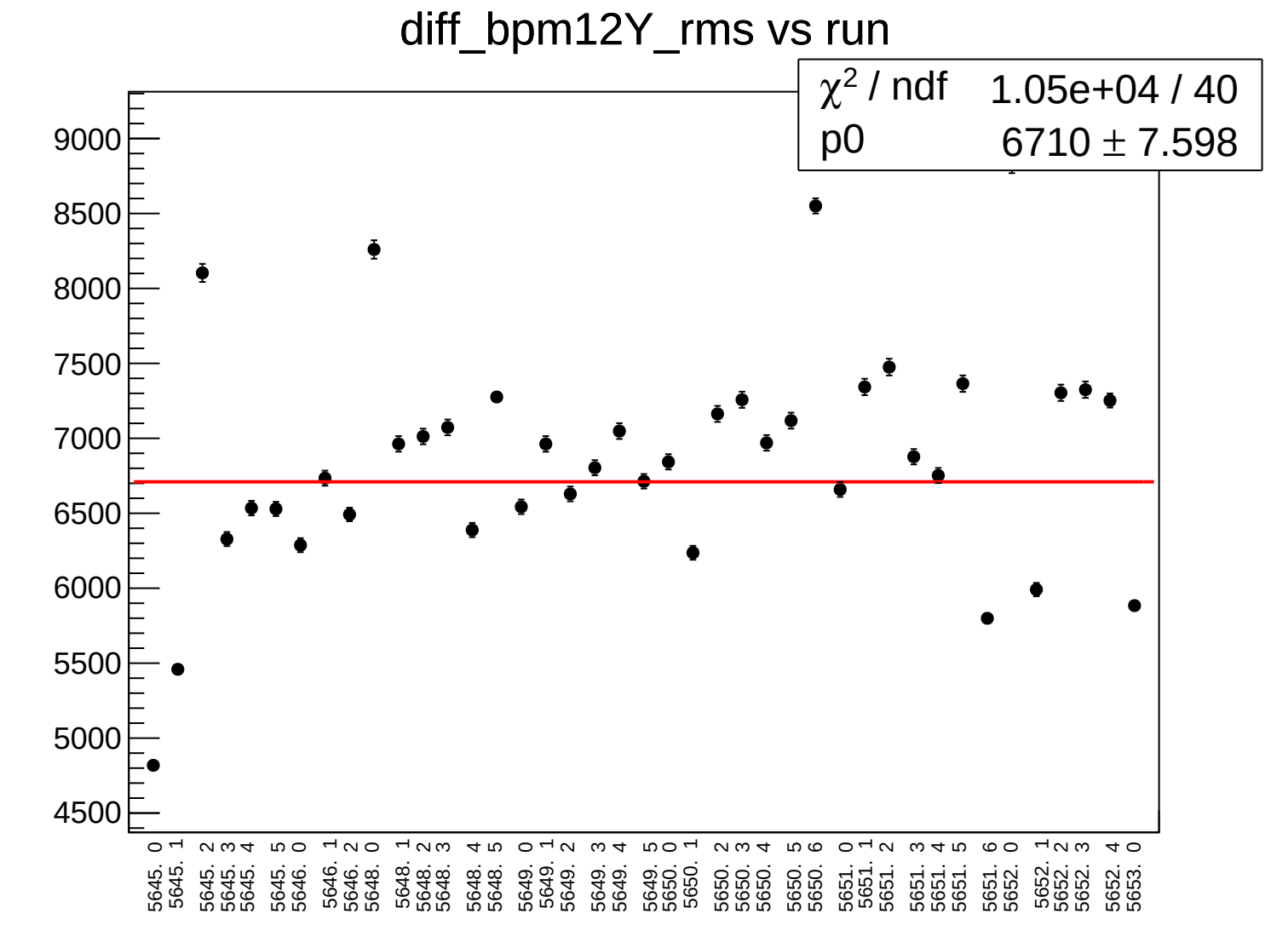

diff_bpm12X_mean vs run
χ² / ndf 45.61 / 40
p0 −43.01 ± 58.63
1000
500
0
−500
−1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.25
Std Dev 24.8
2
1
0
−1
−2

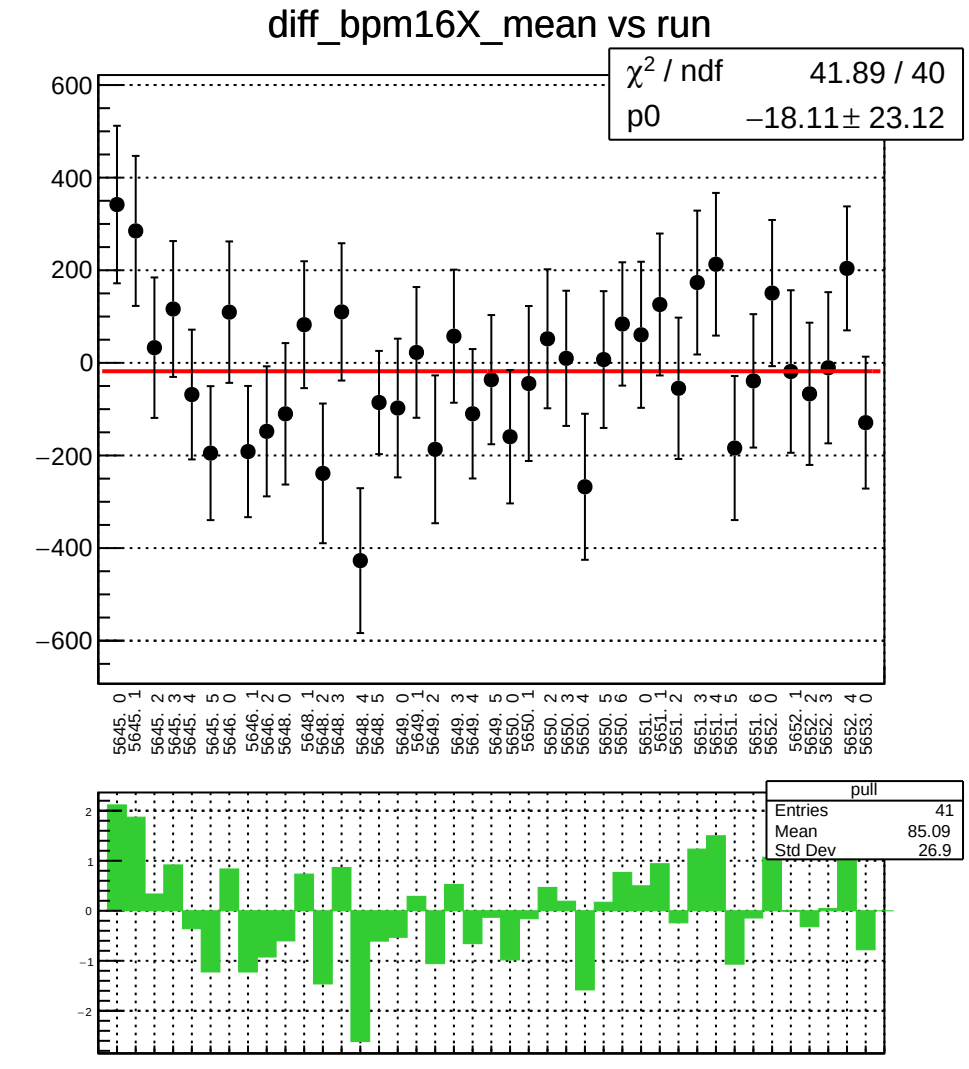

pull1D
Entries 41
Mean 0.0234
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

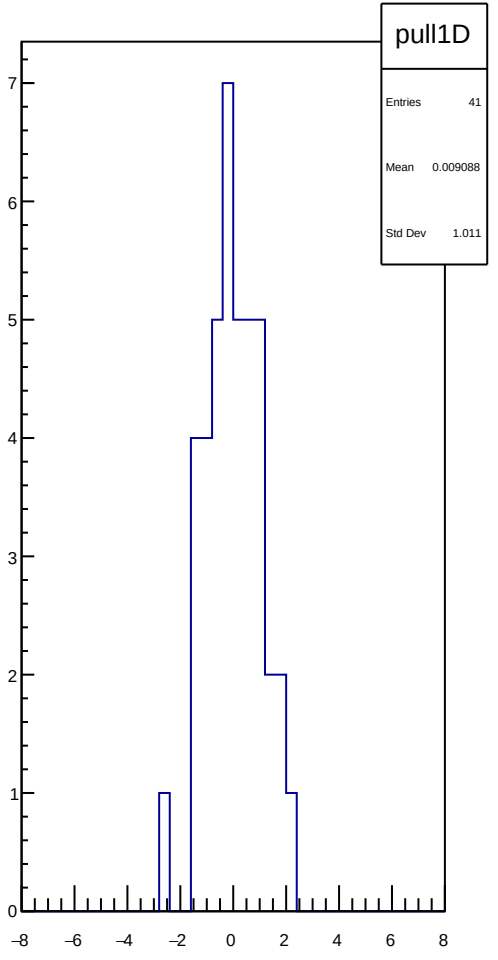

diff_bpm12X_rms vs run
χ² / ndf 4633 / 40
p0 3.675e+04 ± 41.46
48000
46000
44000
42000
40000
38000
36000
34000
32000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

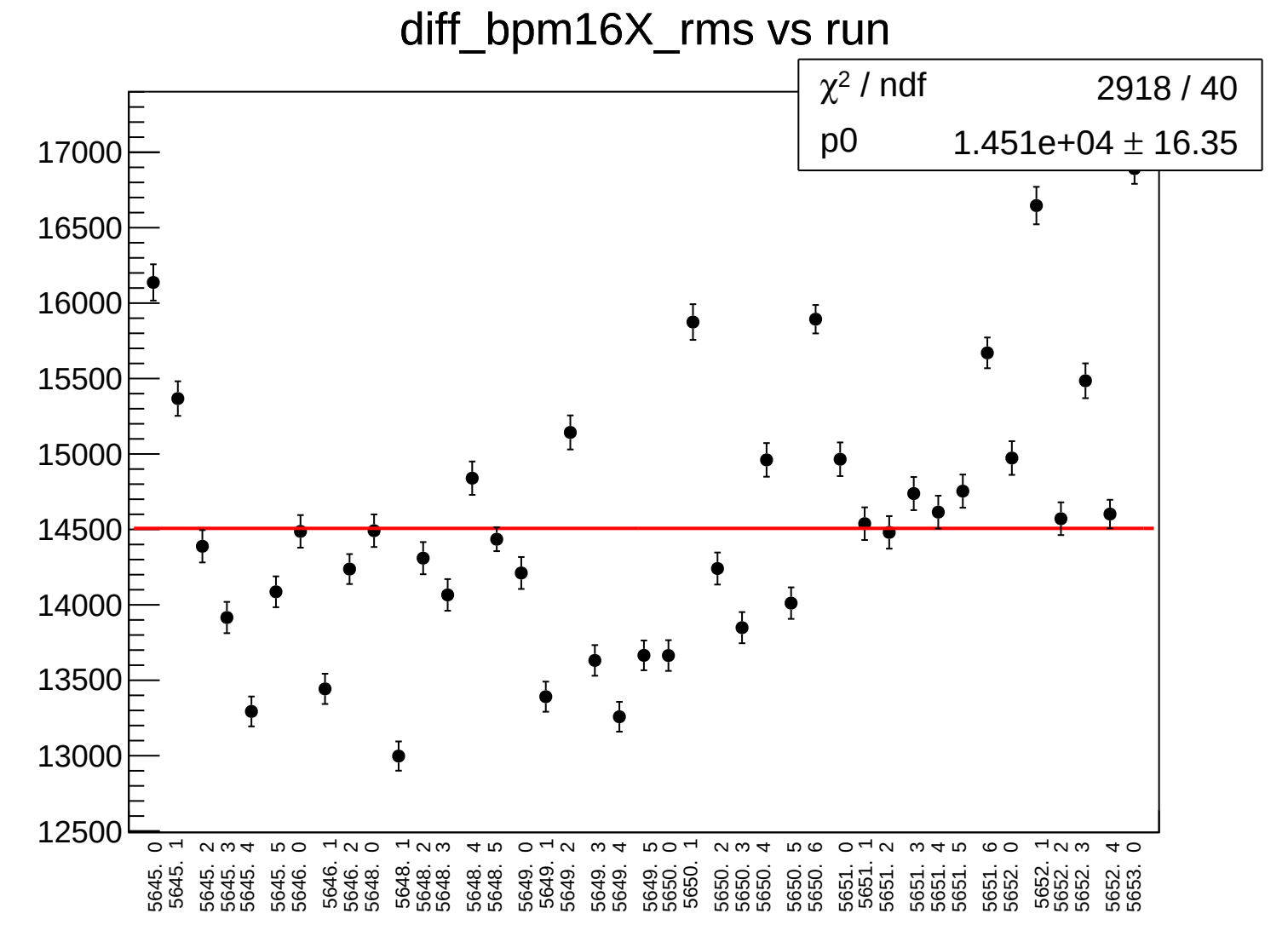

diff_bpm12Y_mean vs run
χ² / ndf 36.74 / 40
p0 1.492 ± 10.75
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −272.5
Std Dev 0
2
1
0
−1
−2

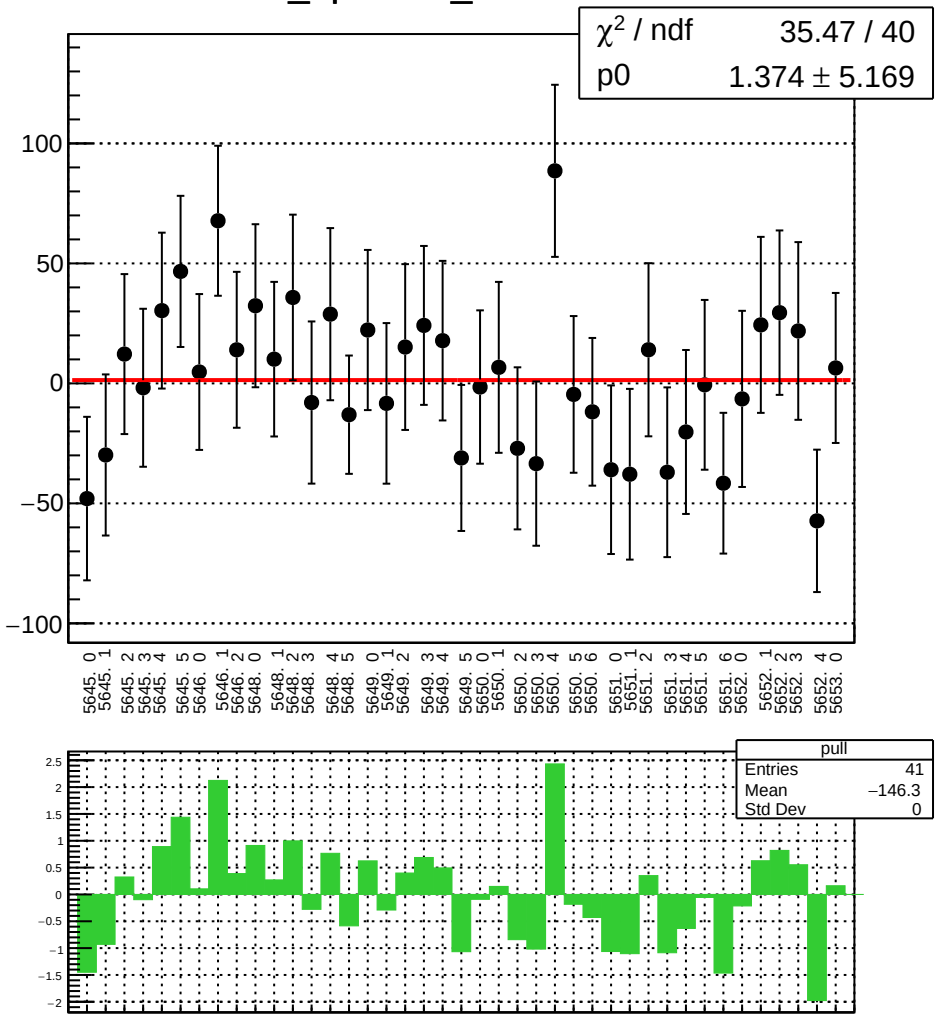

pull1D
Entries 41
Mean 0.01325
Std Dev 0.9466
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

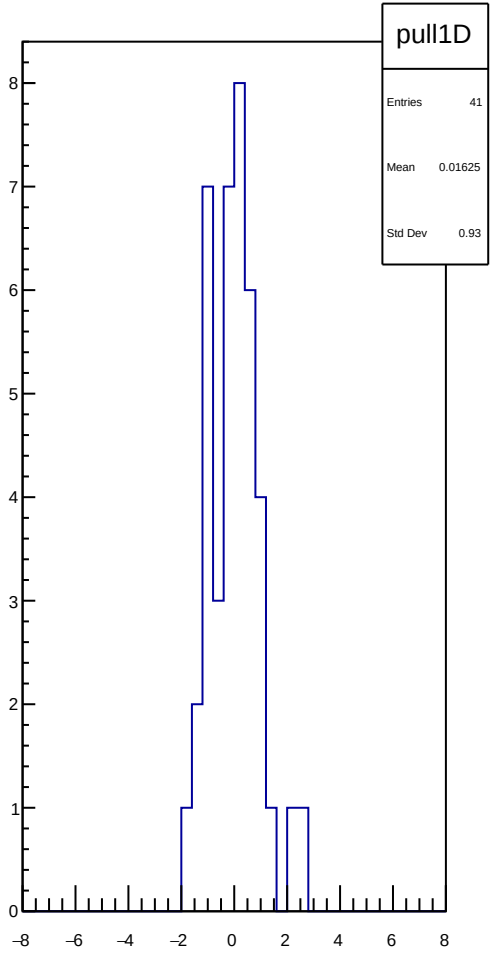

diff_bpm12Y_rms vs run
χ² / ndf 1.05e+04 / 40
p0 6710 ± 7.598
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

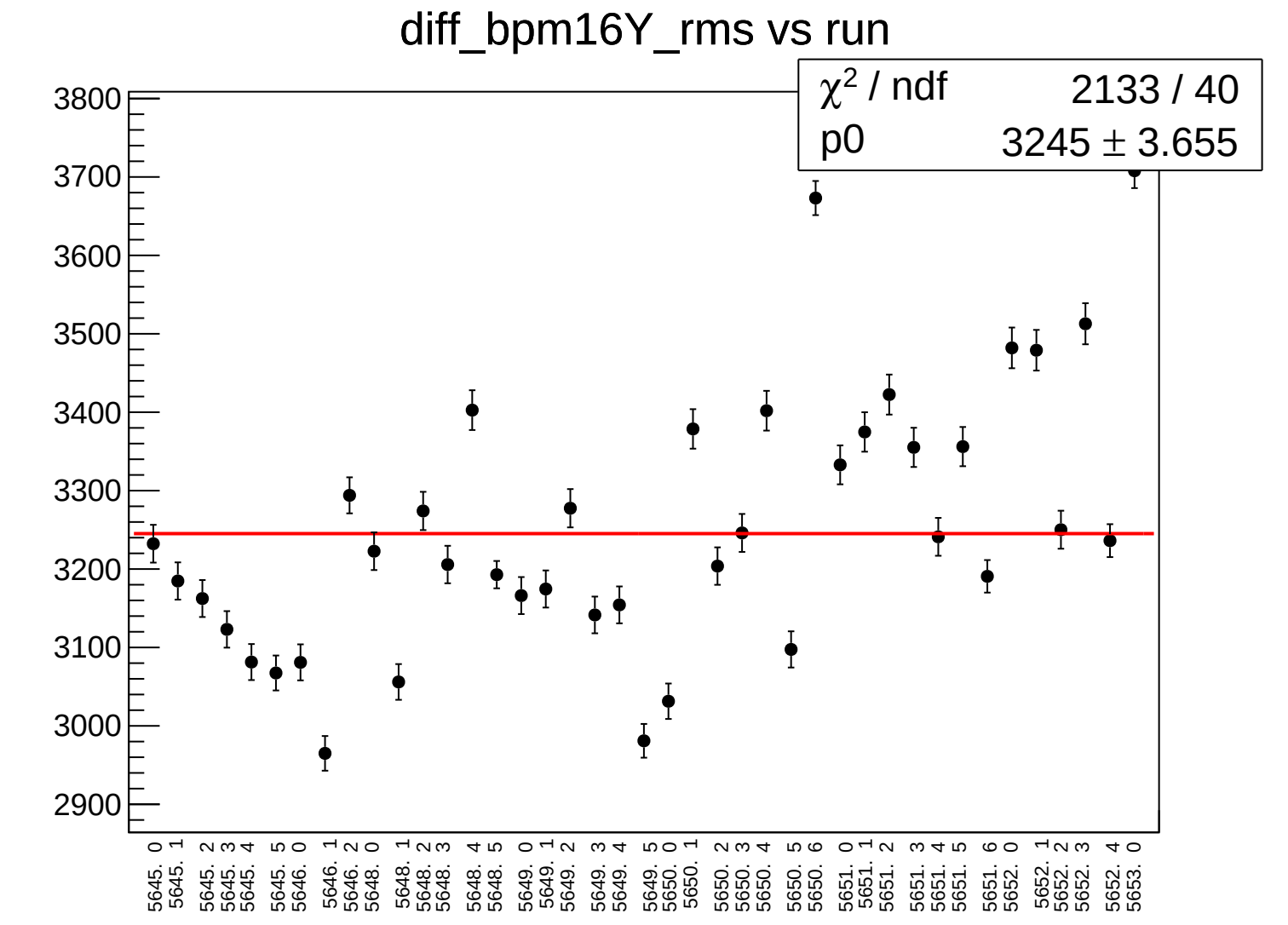

diff_bpm16X_mean vs run
χ² / ndf 41.89 / 40
p0 −18.11± 23.12
600
400
200
0
−200
−400
−600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 85.09
Std Dev 26.9
2
1
0
−1
−2

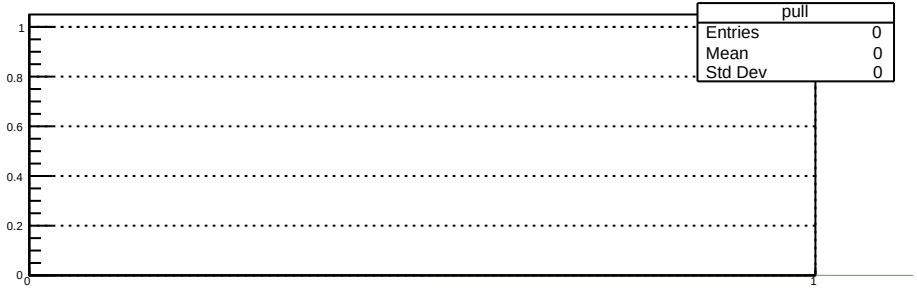

pull1D
Entries 41
Mean 0.009088
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

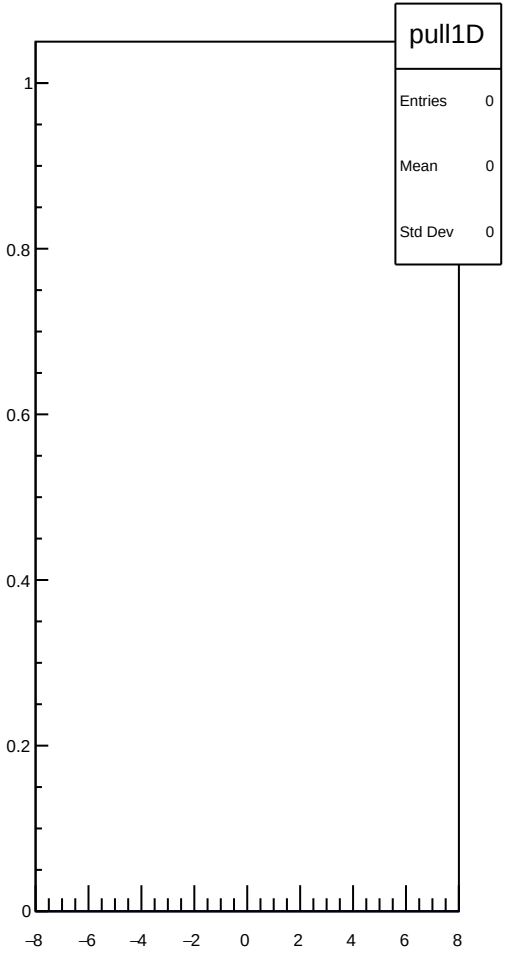

diff_bpm16X_rms vs run
χ² / ndf 2918 / 40
p0 1.451e+04 ± 16.35
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

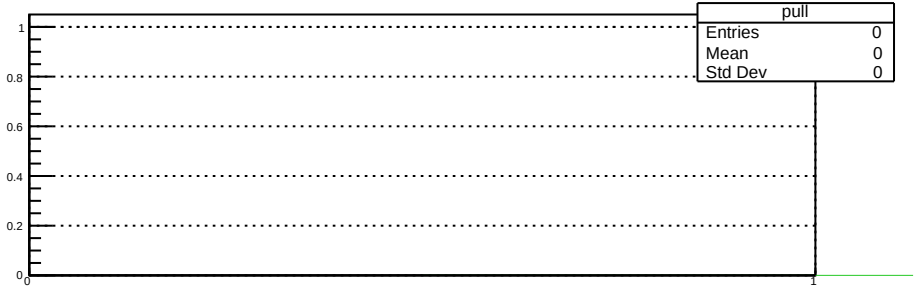

diff_bpm16Y_mean vs run
χ² / ndf 35.47 / 40
p0 1.374 ± 5.169
pull
Entries 41
Mean −146.3
Std Dev 0

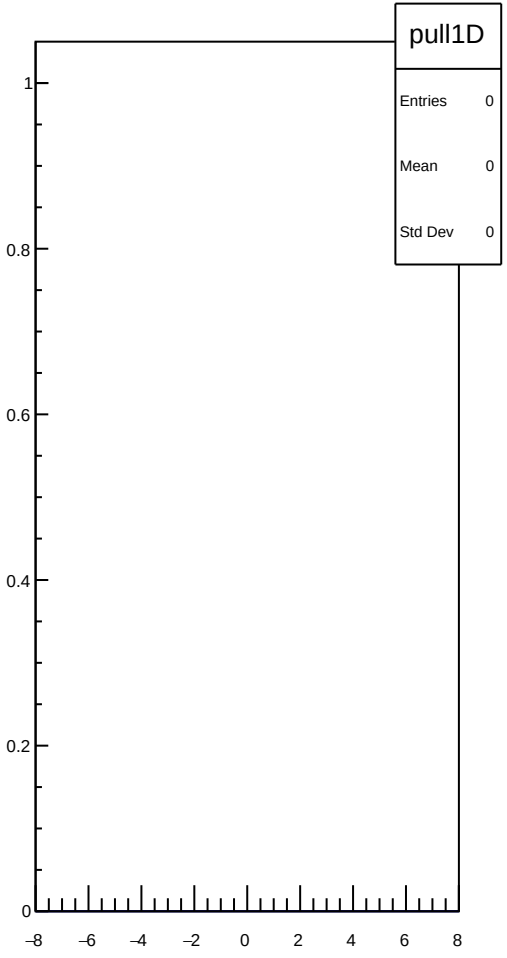

pull1D
Entries 41
Mean 0.01625
Std Dev 0.93

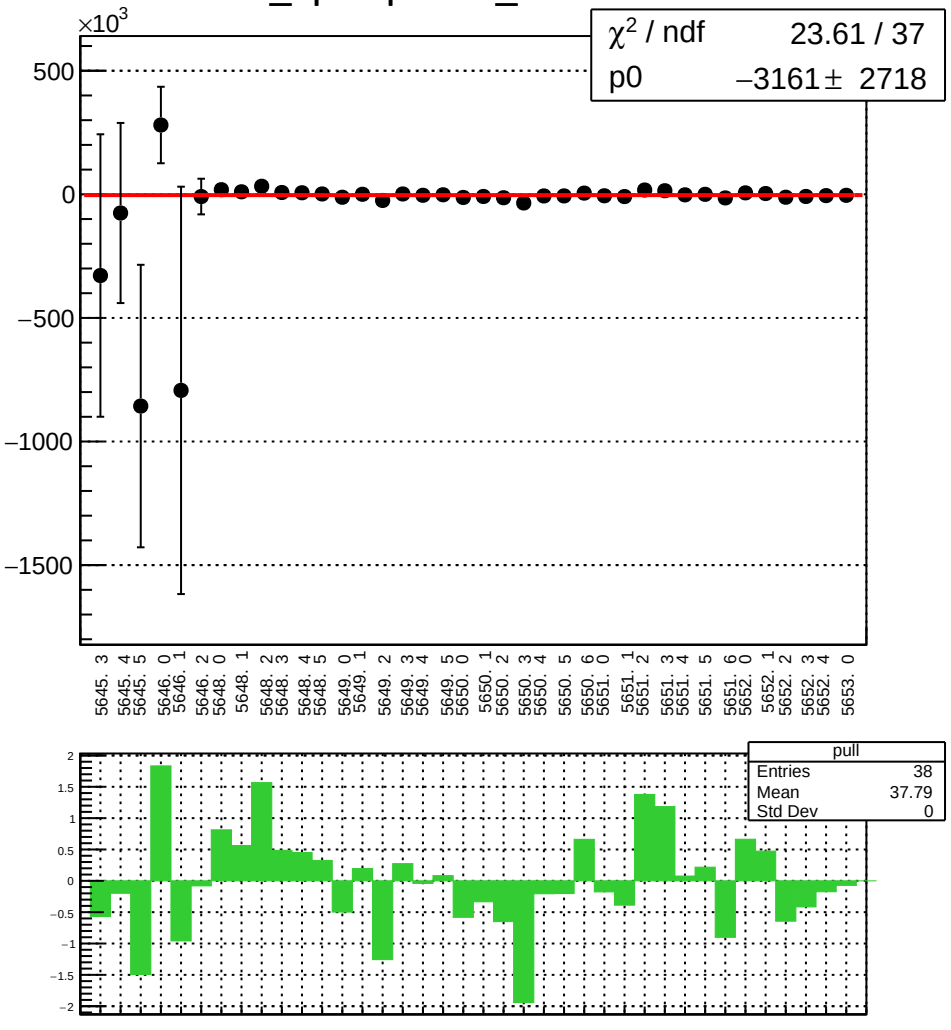

diff_bpm16Y_rms vs run
χ² / ndf 2133 / 40
p0 3245 ± 3.655
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

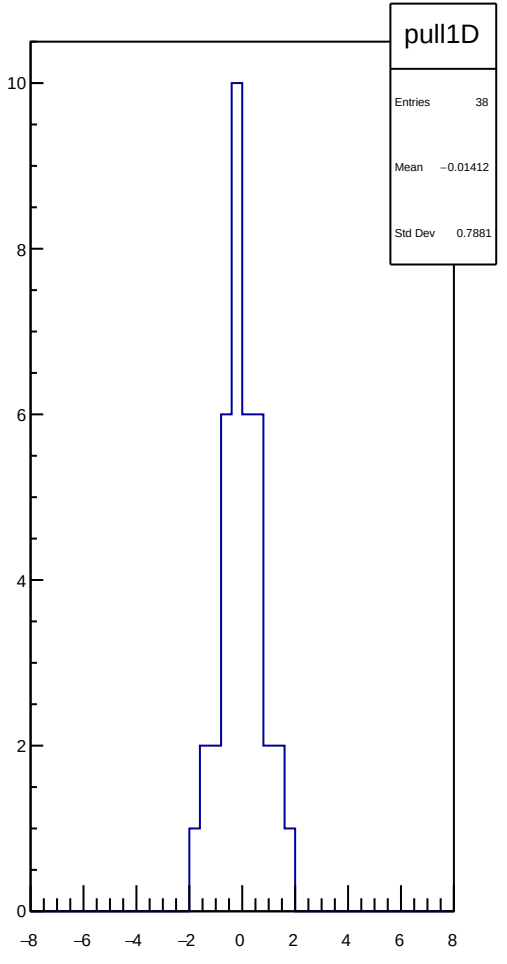

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

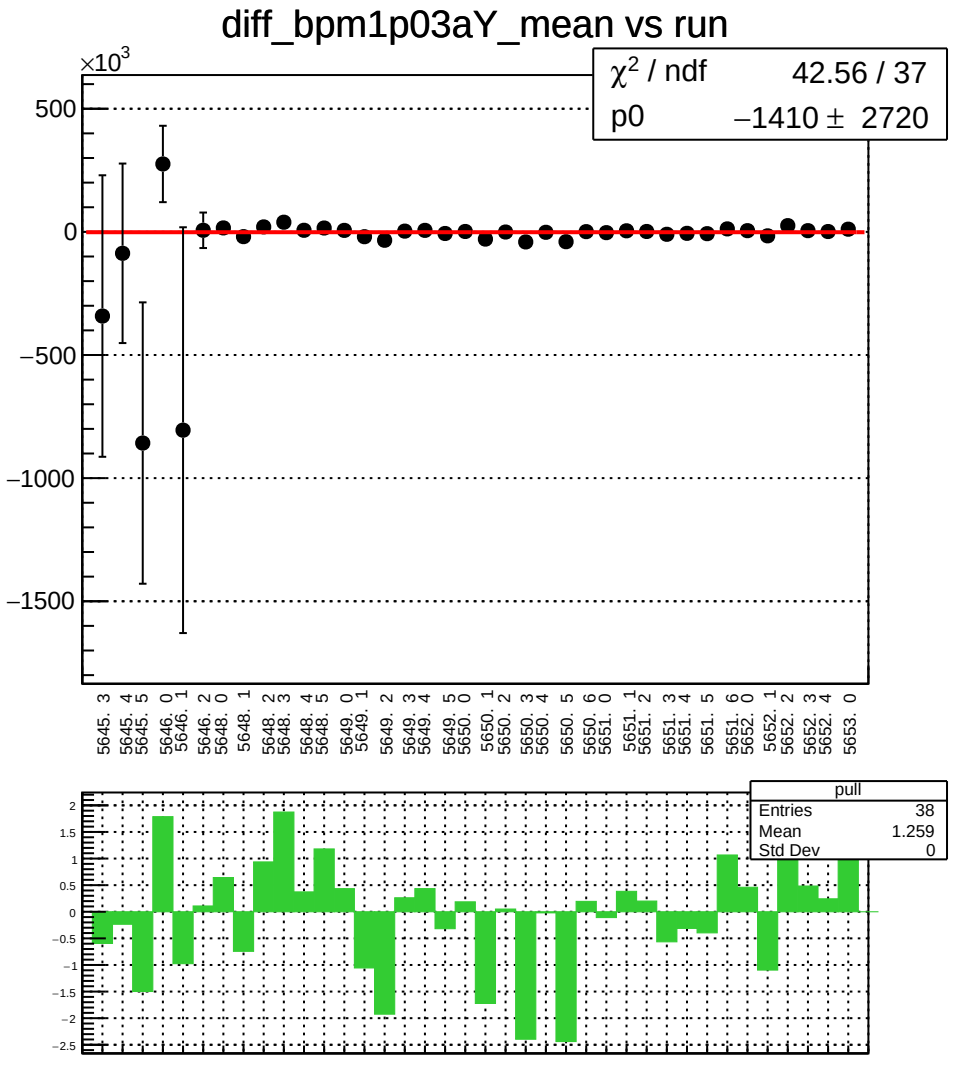

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

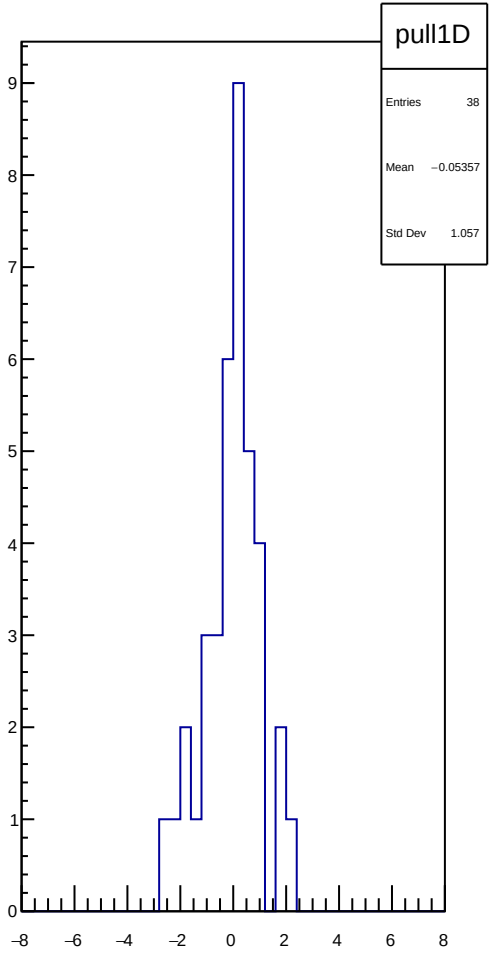

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

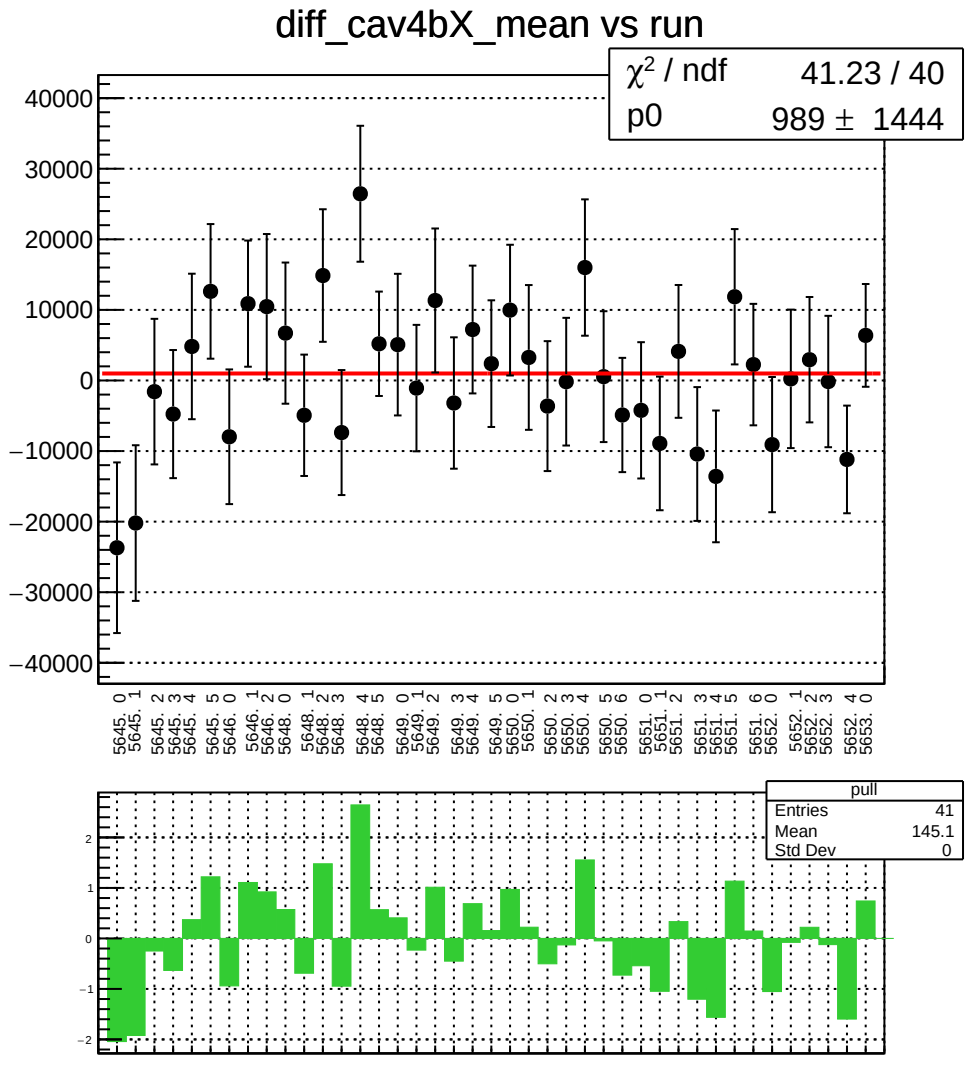

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

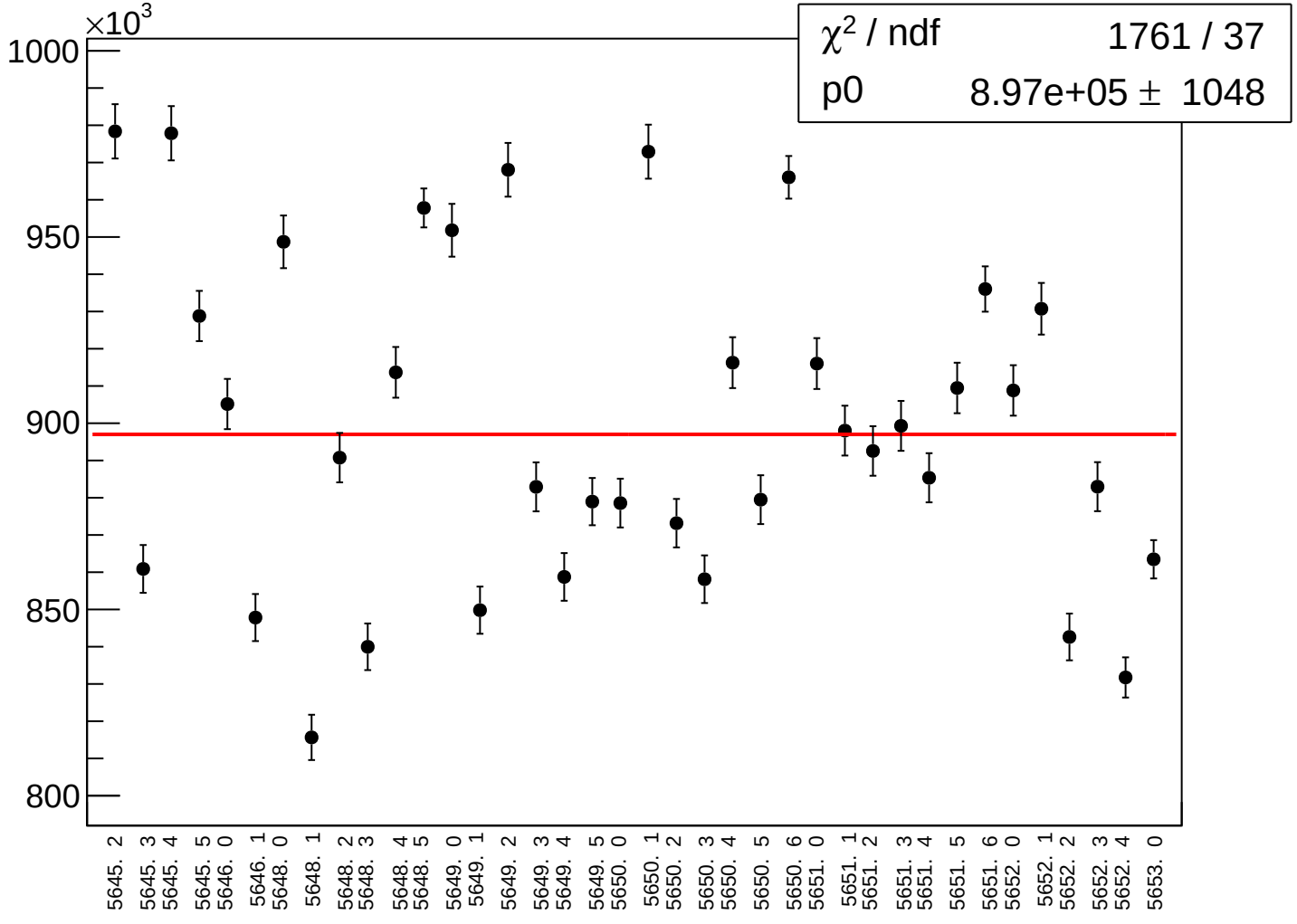

diff_bpm1p03aX_mean vs run
×10^3
χ^2 / ndf 23.61 / 37
p0 −3161 ± 2718
500
0
−500
−1000
−1500
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 38
Mean 37.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

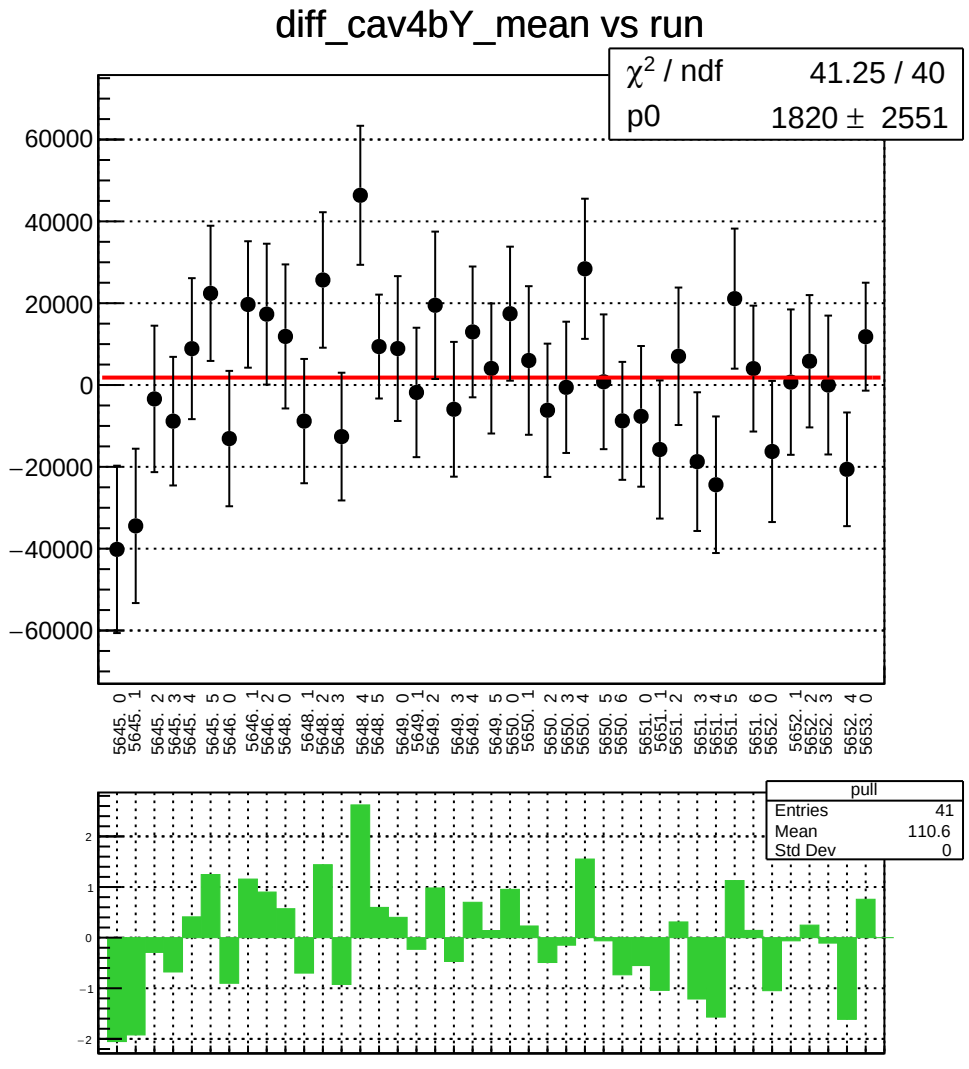

pull1D
Entries 38
Mean −0.01412
Std Dev 0.7881
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

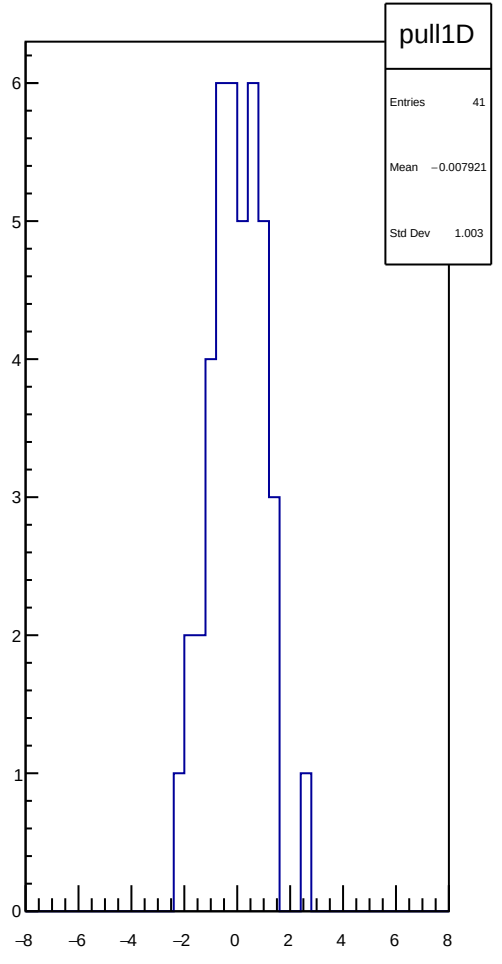

diff_bpm1p03aY_mean vs run
×10^3
χ^2 / ndf 42.56 / 37
p0 −1410 ± 2720
500
0
−500
−1000
−1500
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 38
Mean 1.259
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

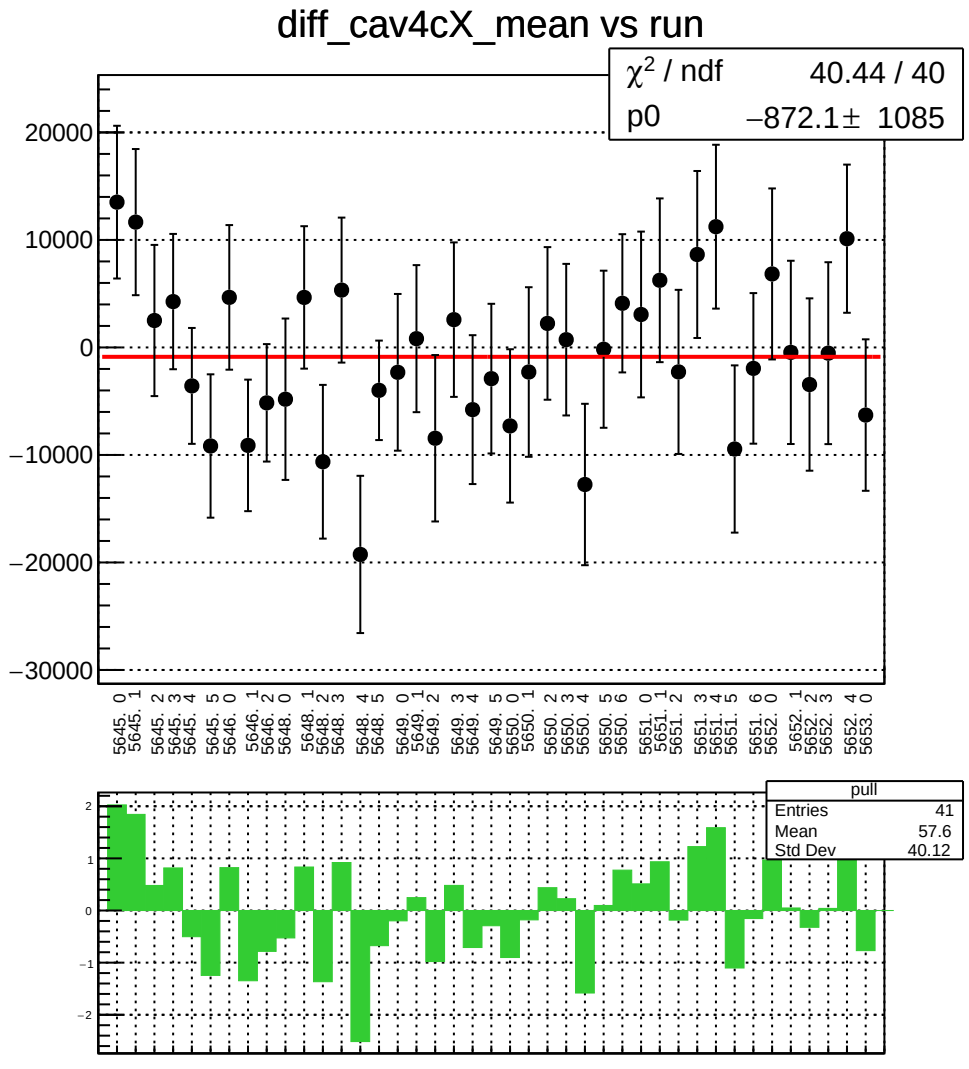

pull1D
Entries 38
Mean −0.05357
Std Dev 1.057
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

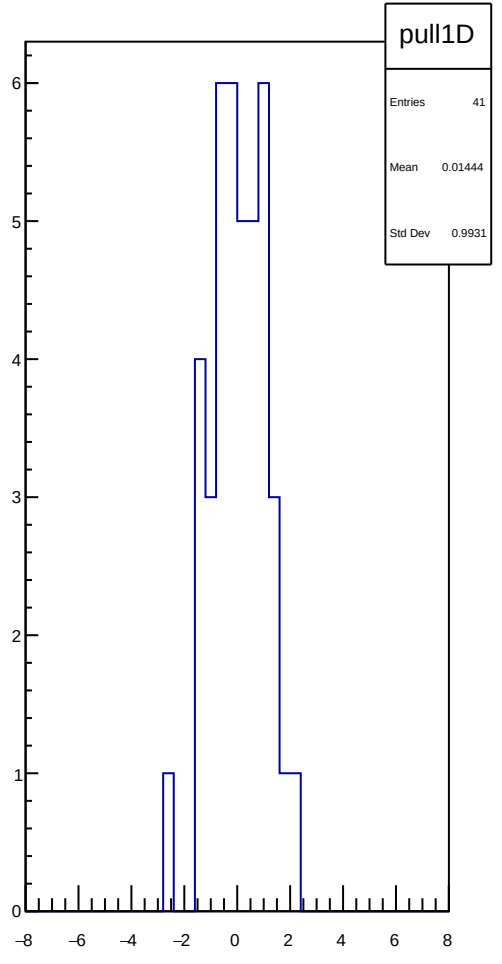

diff_cav4bX_mean vs run
χ² / ndf 41.23 / 40
p0 989 ± 1444
pull
Entries 41
Mean 145.1
Std Dev 0
pull1D
Entries 41
Mean −0.005819
Std Dev 1.003

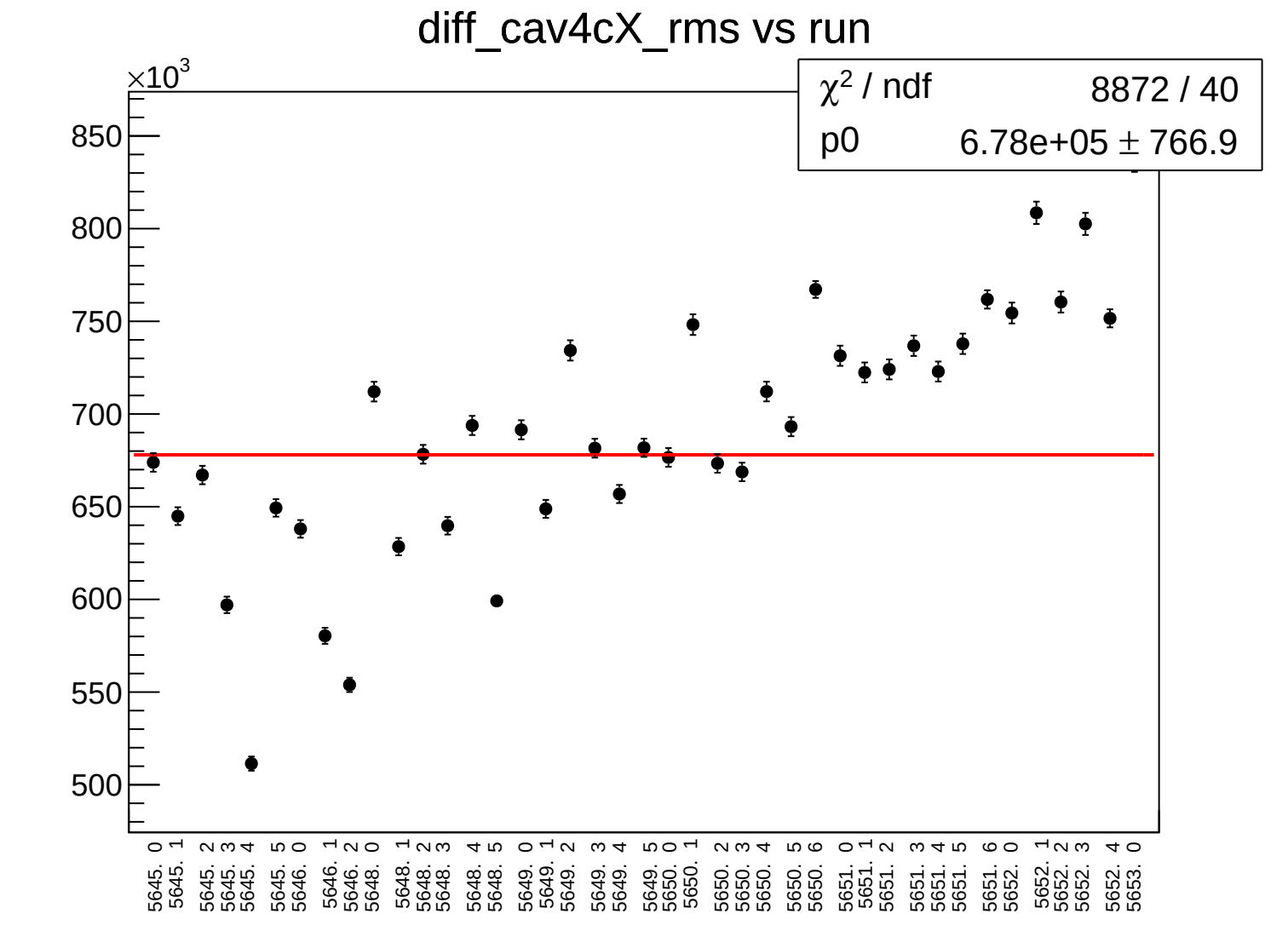

diff_cav4bX_rms vs run
×10^3
1000
950
900
850
800
χ² / ndf 1761 / 37
p0 8.97e+05 ± 1048
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

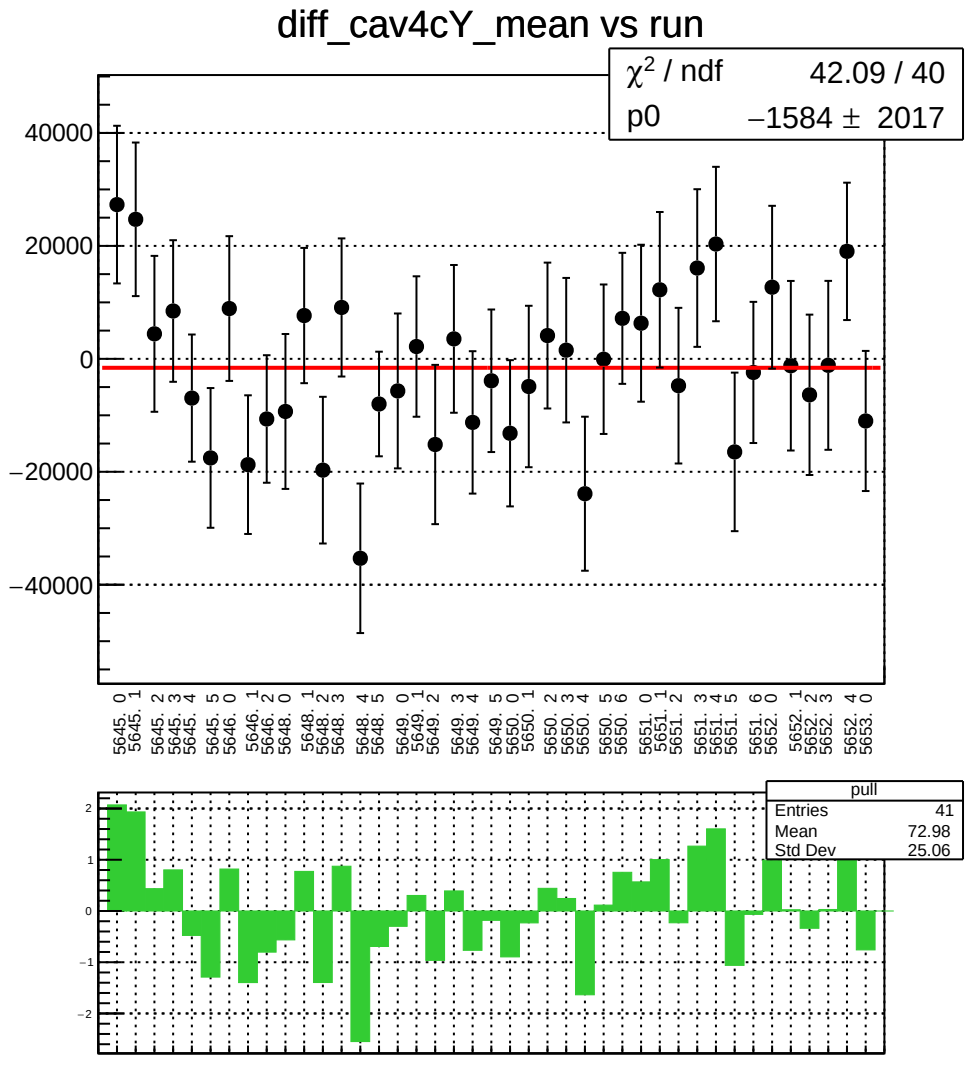

diff_cav4bY_mean vs run
χ² / ndf 41.25 / 40
p0 1820 ± 2551
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 110.6
Std Dev 0
2
1
0
−1
−2

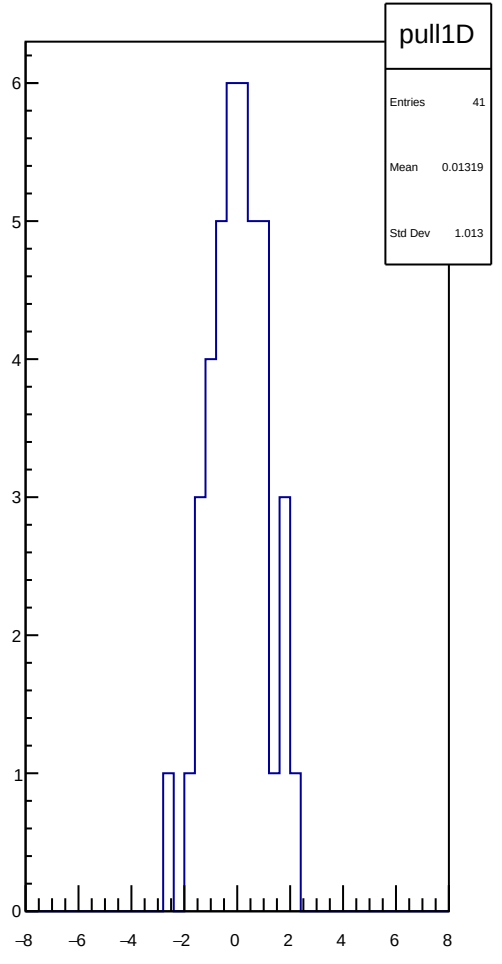

pull1D
Entries 41
Mean −0.007921
Std Dev 1.003
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

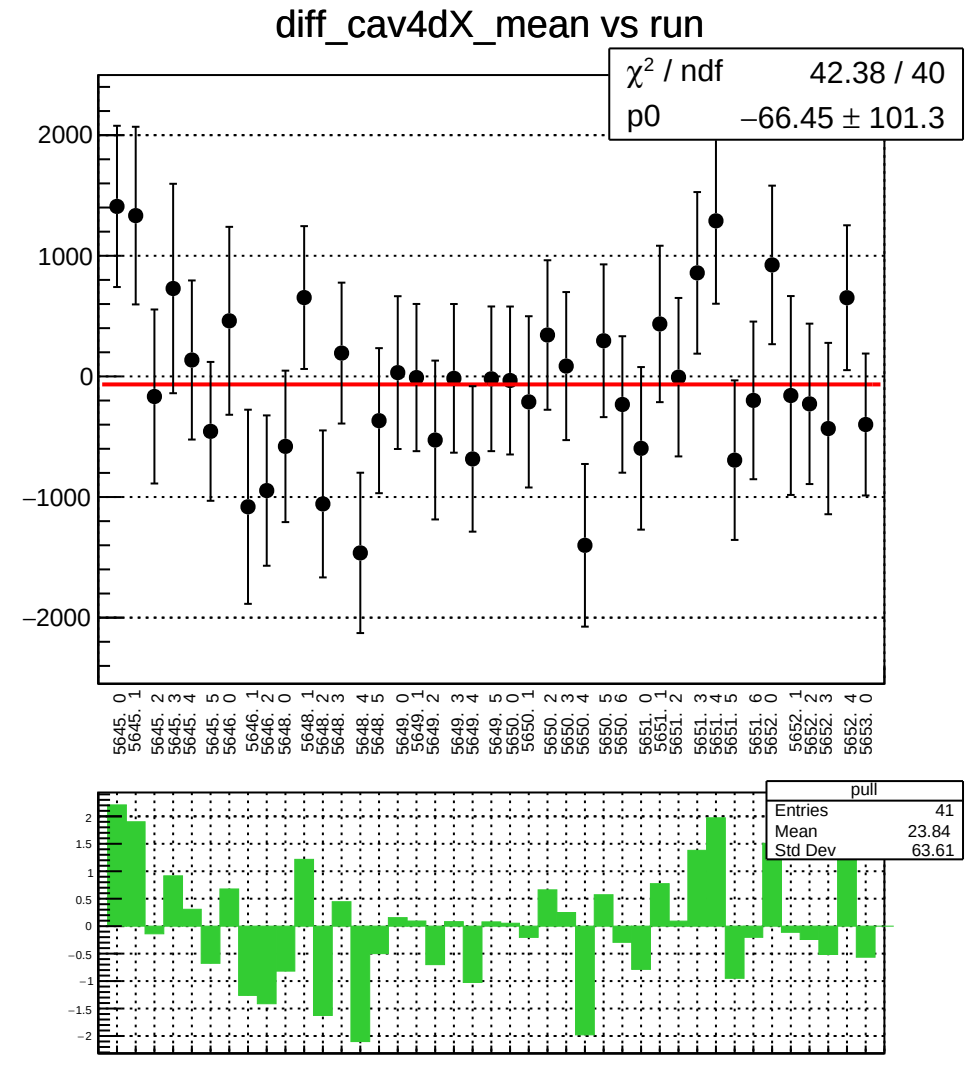

diff_cav4cX_mean vs run
χ² / ndf 40.44 / 40
p0 −872.1± 1085
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 57.6
Std Dev 40.12
2
1
0
−1
−2

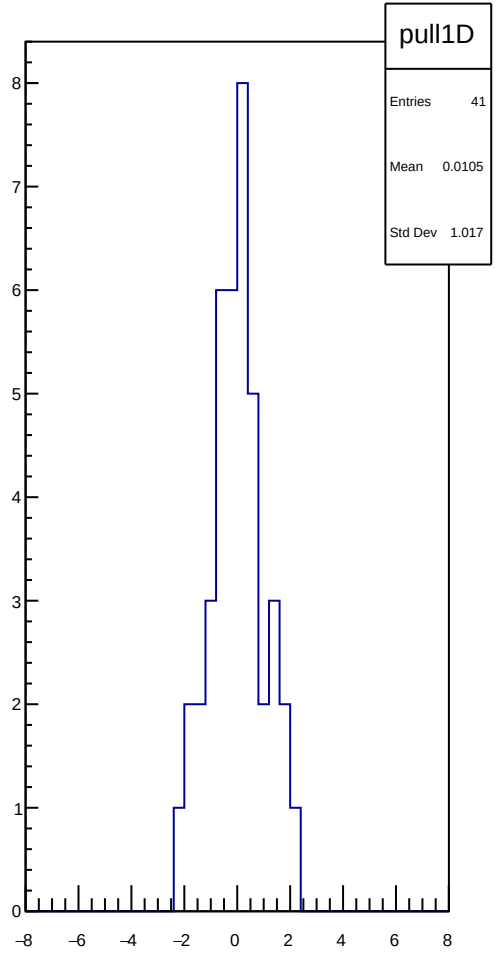

pull1D
Entries 41
Mean 0.01444
Std Dev 0.9931
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

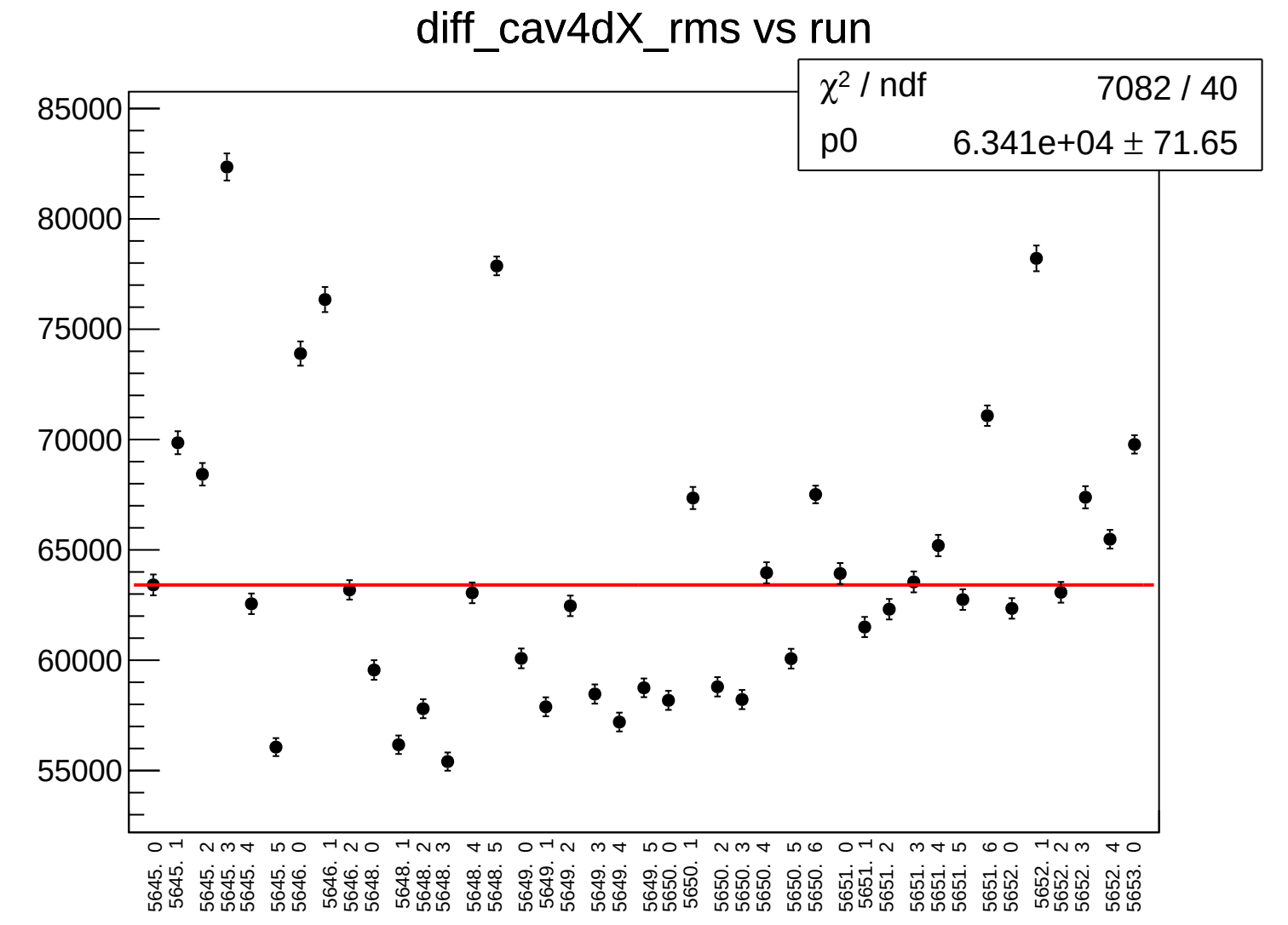

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 8872 / 40
p0 6.78e+05 ± 766.9
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

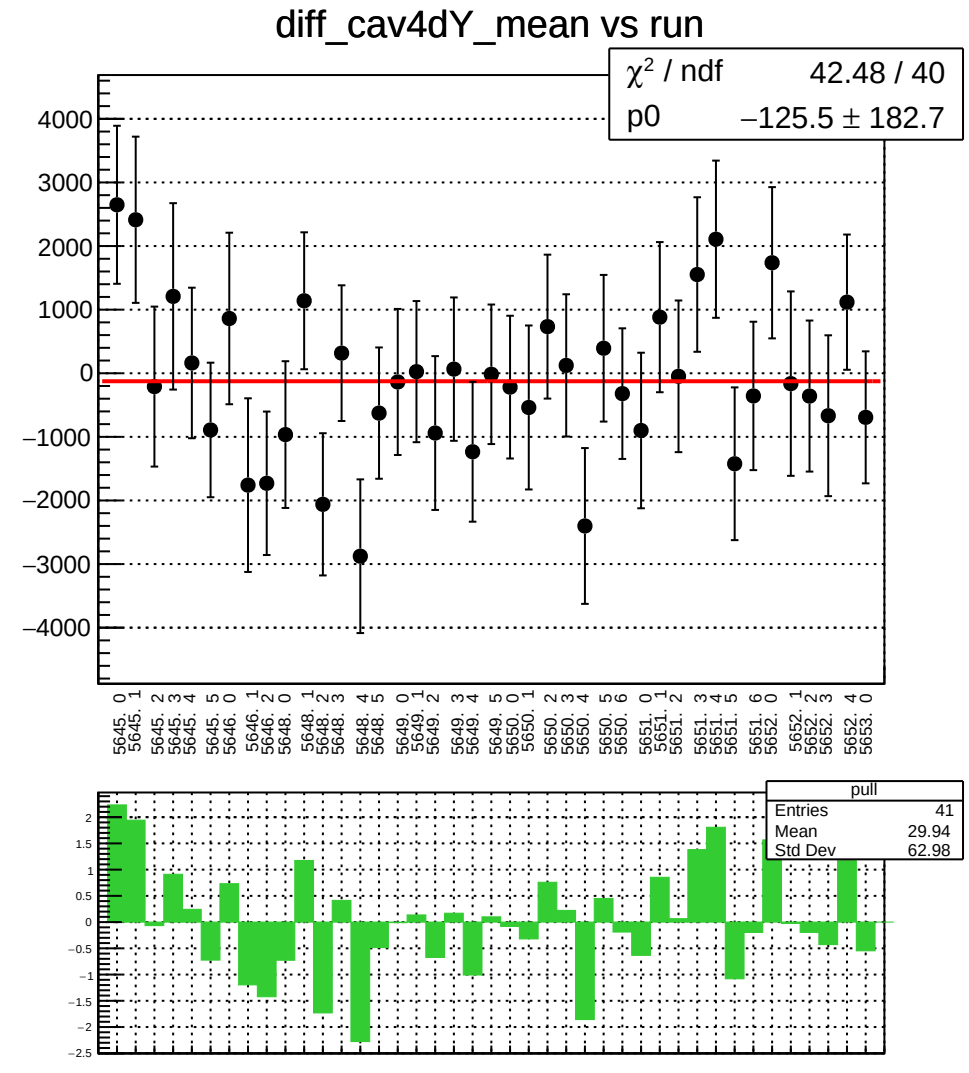

diff_cav4cY_mean vs run
χ² / ndf 42.09 / 40
p0 −1584 ± 2017
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 72.98
Std Dev 25.06
2
1
0
−1
−2

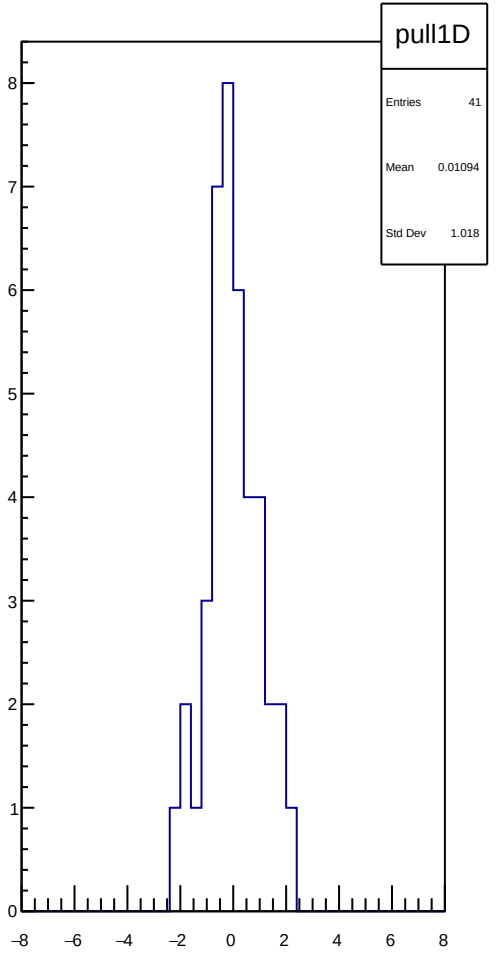

pull1D
Entries 41
Mean 0.01319
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

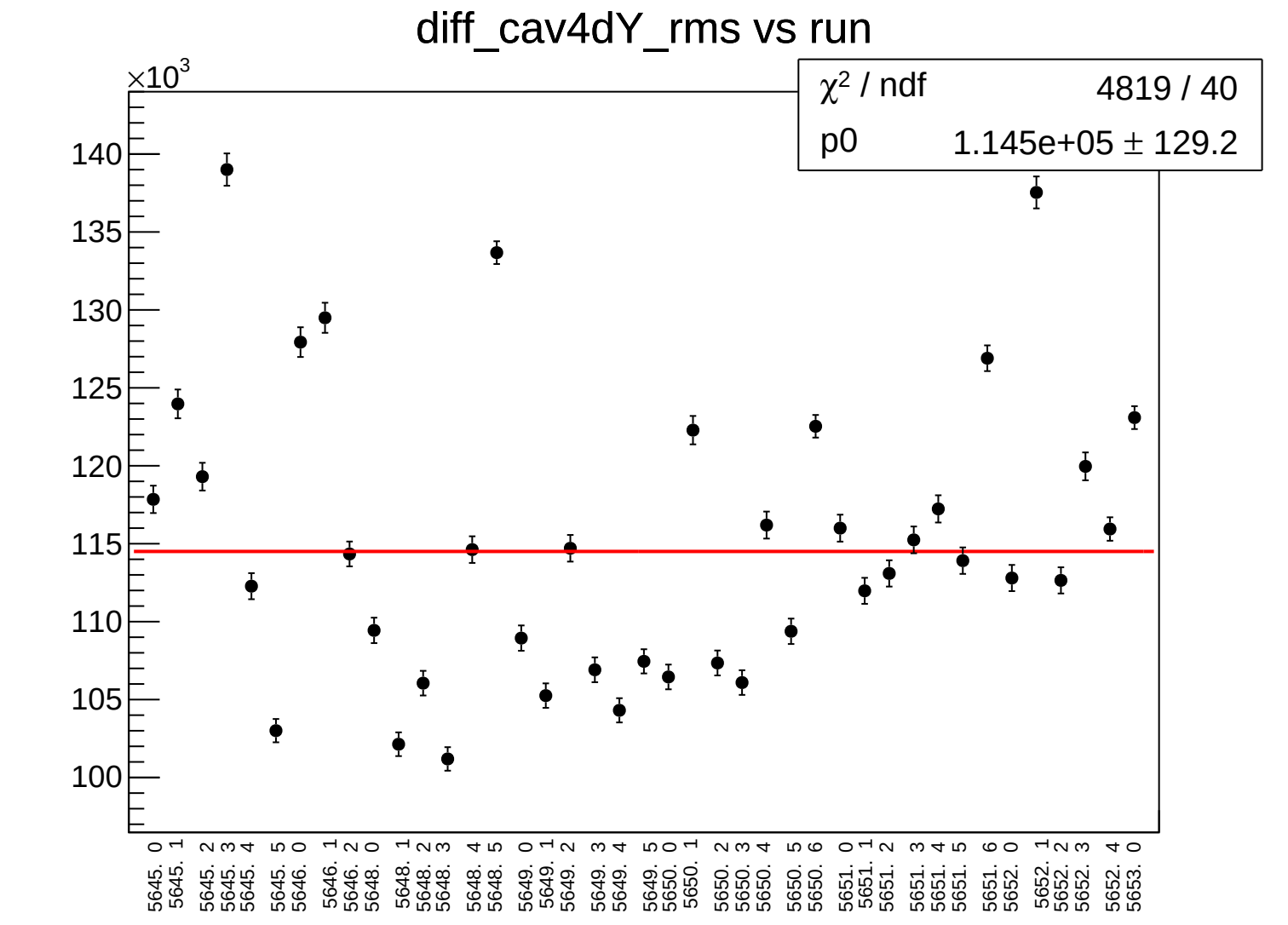

diff_cav4dX_mean vs run
χ² / ndf 42.38 / 40
p0 −66.45 ± 101.3
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.84
Std Dev 63.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

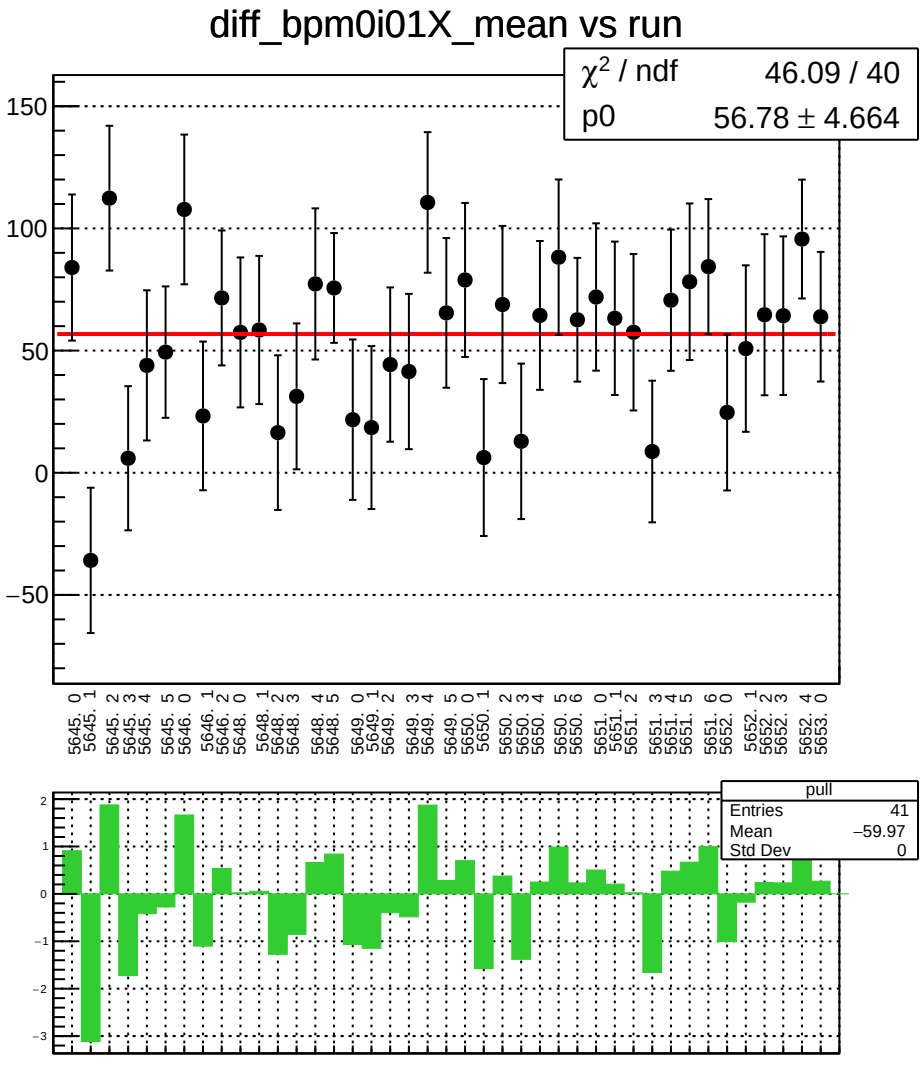

pull1D
Entries 41
Mean 0.0105
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

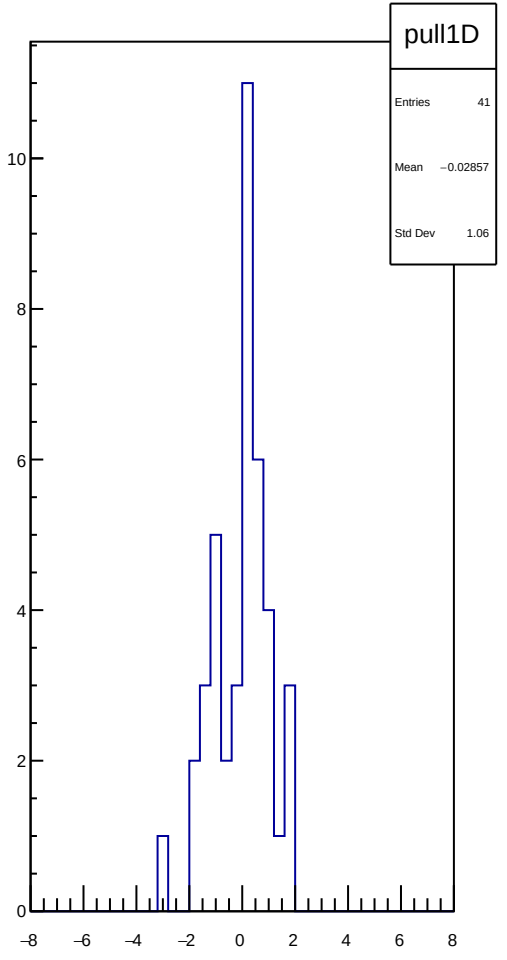

diff_cav4dX_rms vs run
χ² / ndf 7082 / 40
p0 6.341e+04 ± 71.65
85000
80000
75000
70000
65000
60000
55000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

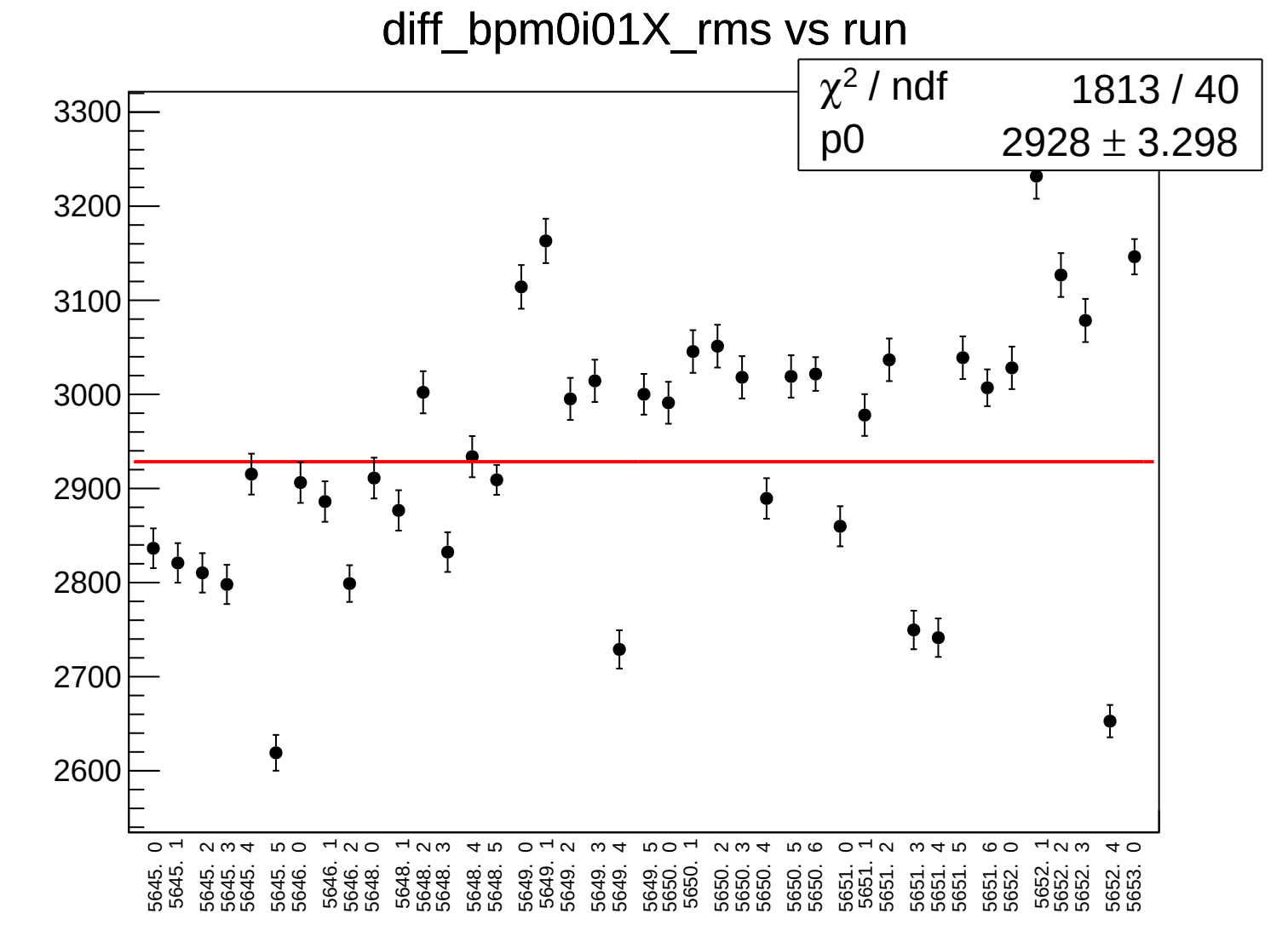

diff_cav4dY_mean vs run
χ² / ndf 42.48 / 40
p0 −125.5 ± 182.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 29.94
Std Dev 62.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

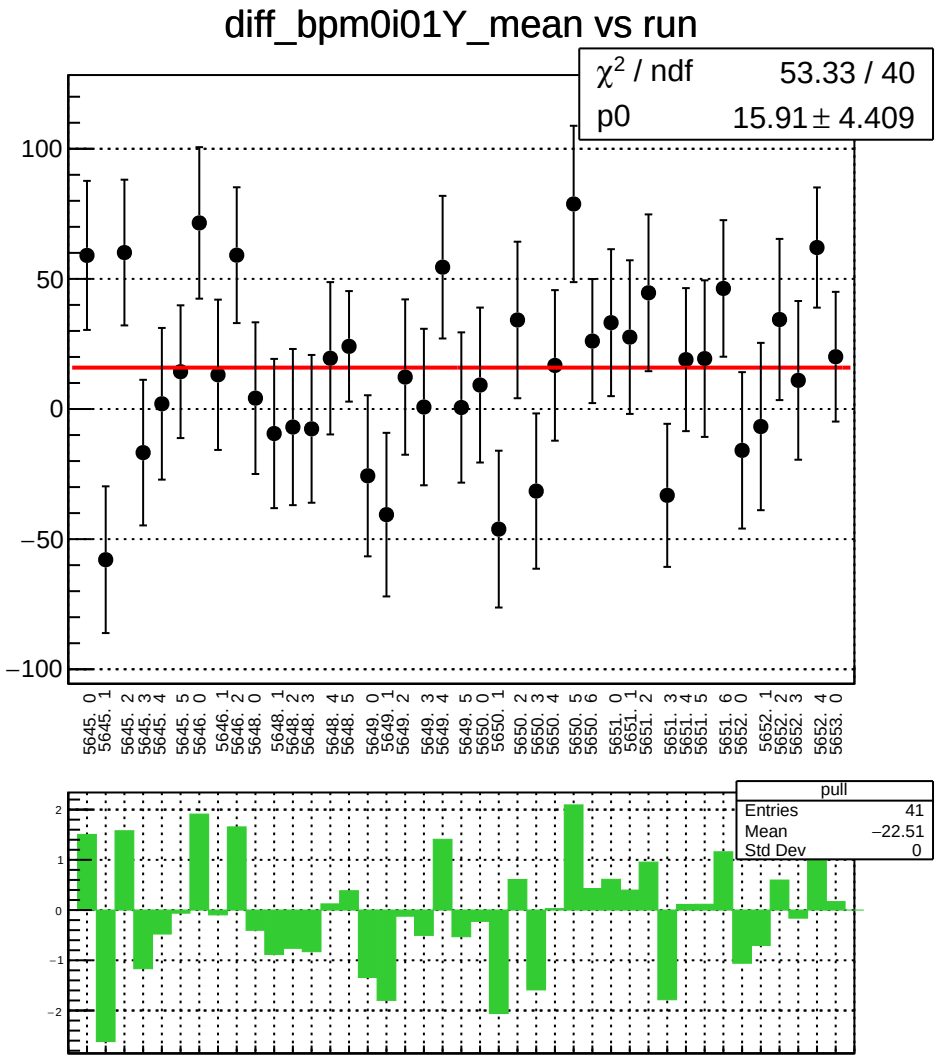

pull1D
Entries 41
Mean 0.01094
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

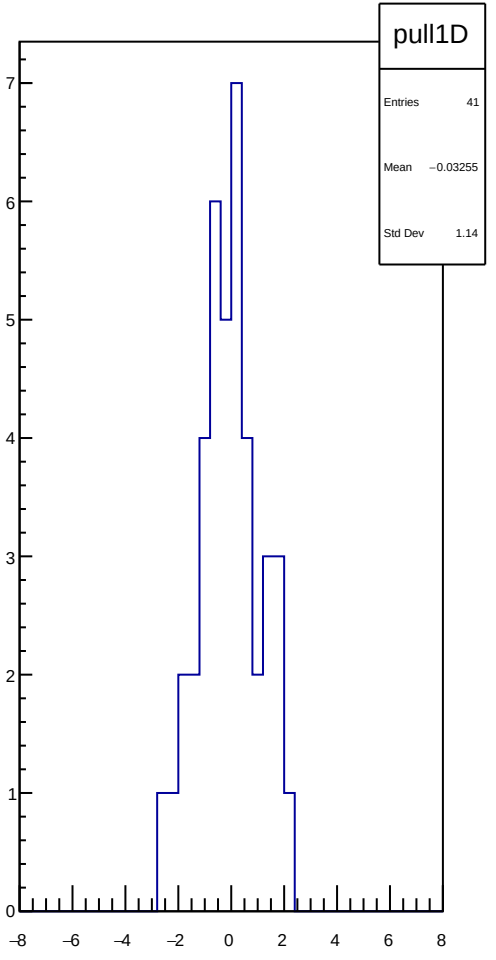

diff_cav4dY_rms vs run
×10^3
χ² / ndf 4819 / 40
p0 1.145e+05 ± 129.2
140
135
130
125
120
115
110
105
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

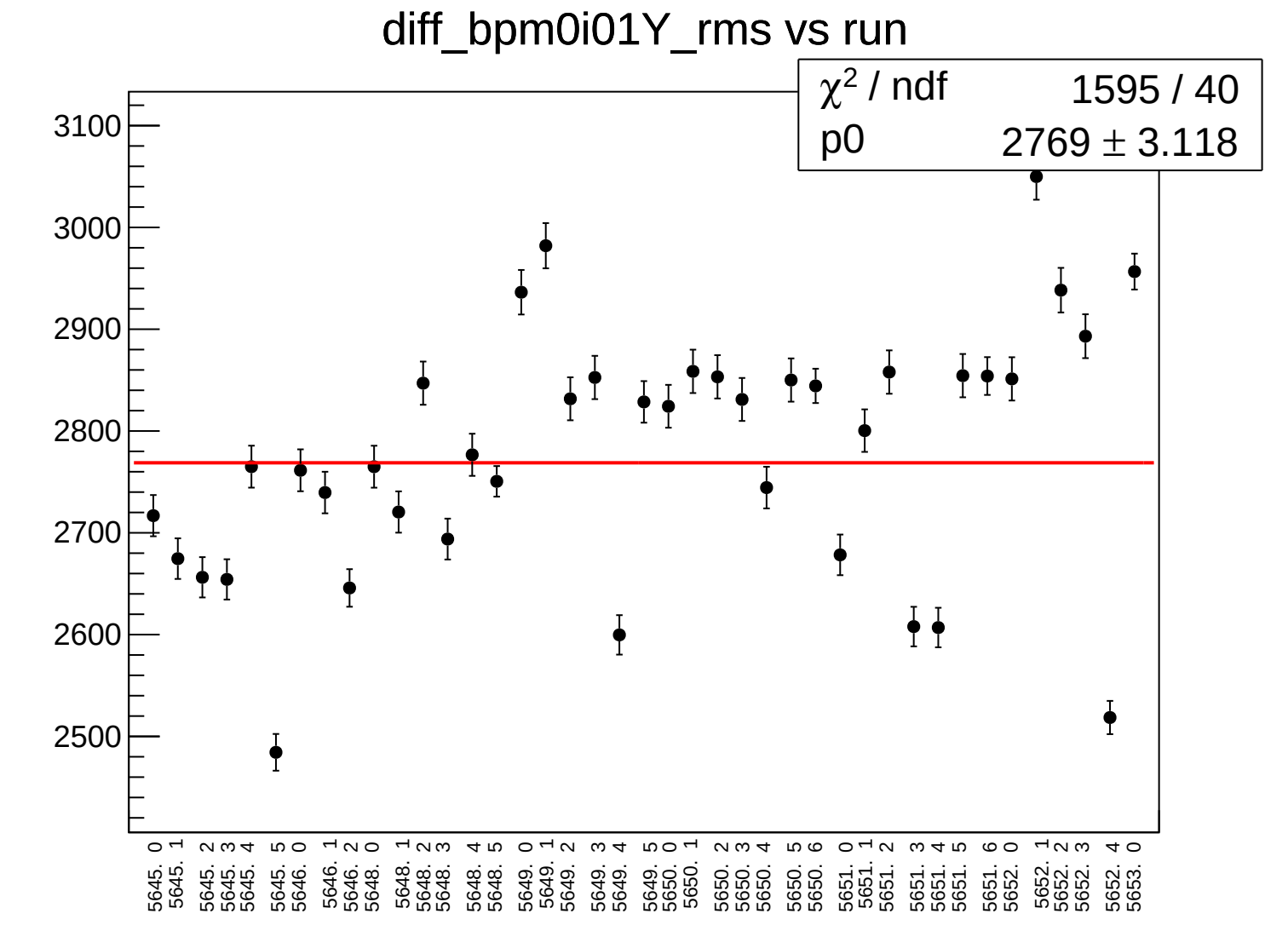

diff_bpm0i01X_mean vs run
χ² / ndf 46.09 / 40
p0 56.78 ± 4.664
150
100
50
0
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −59.97
Std Dev 0
2
1
0
−1
−2
−3

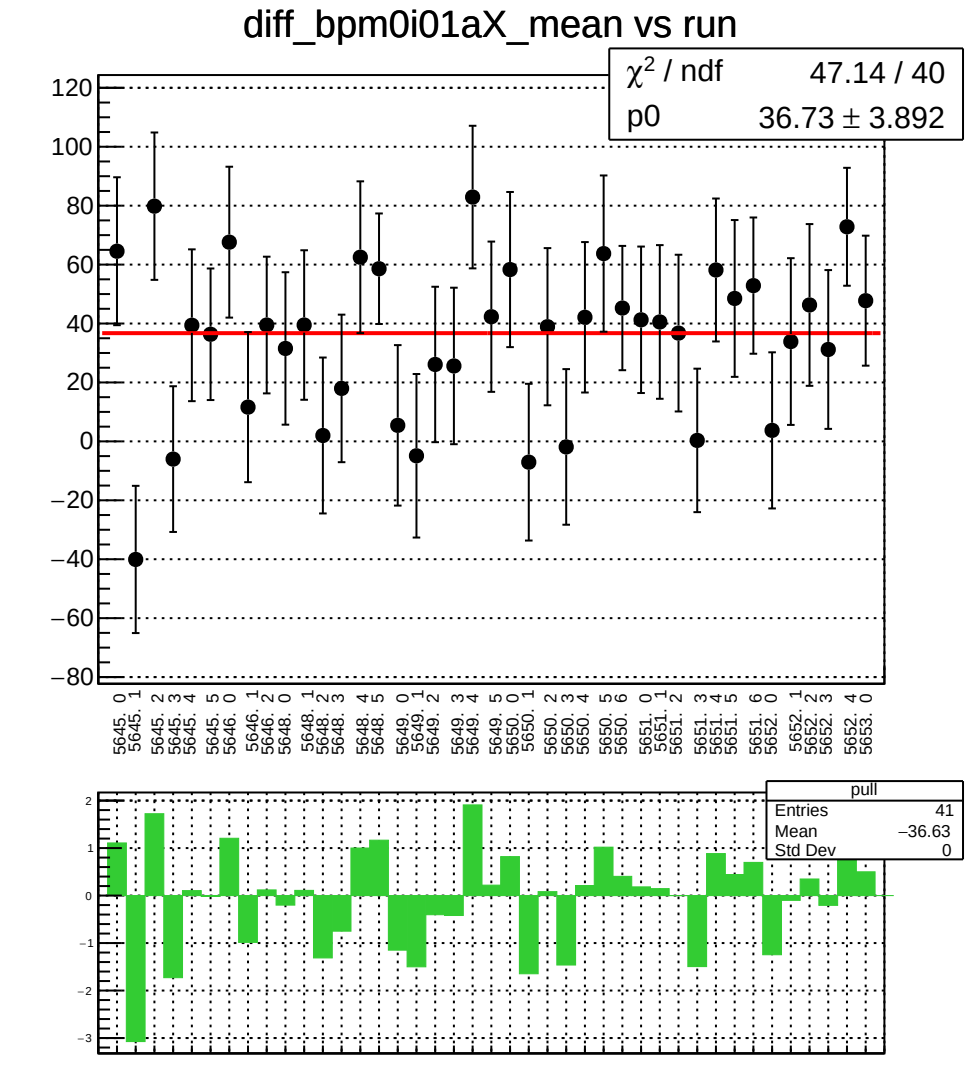

pull1D
Entries 41
Mean −0.02857
Std Dev 1.06
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

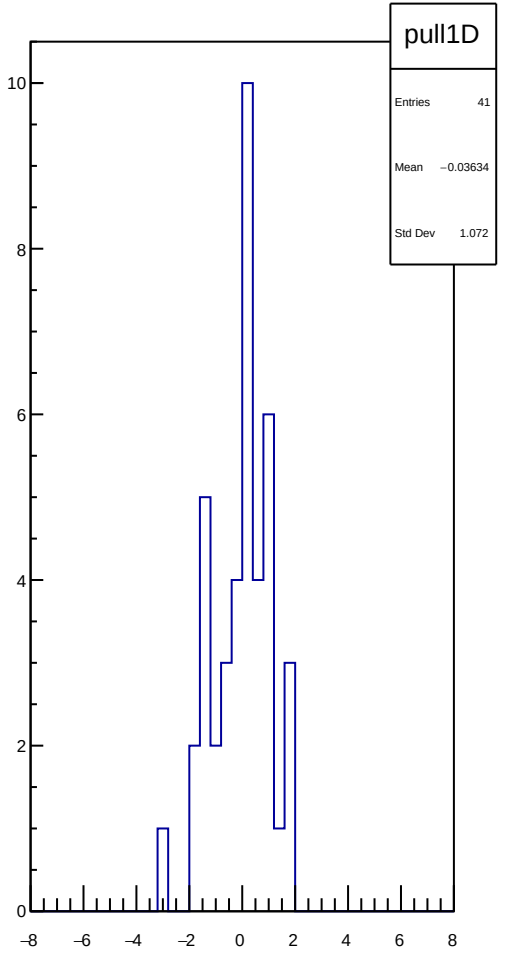

diff_bpm0i01X_rms vs run
χ² / ndf 1813 / 40
p0 2928 ± 3.298
3300
3200
3100
3000
2900
2800
2700
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

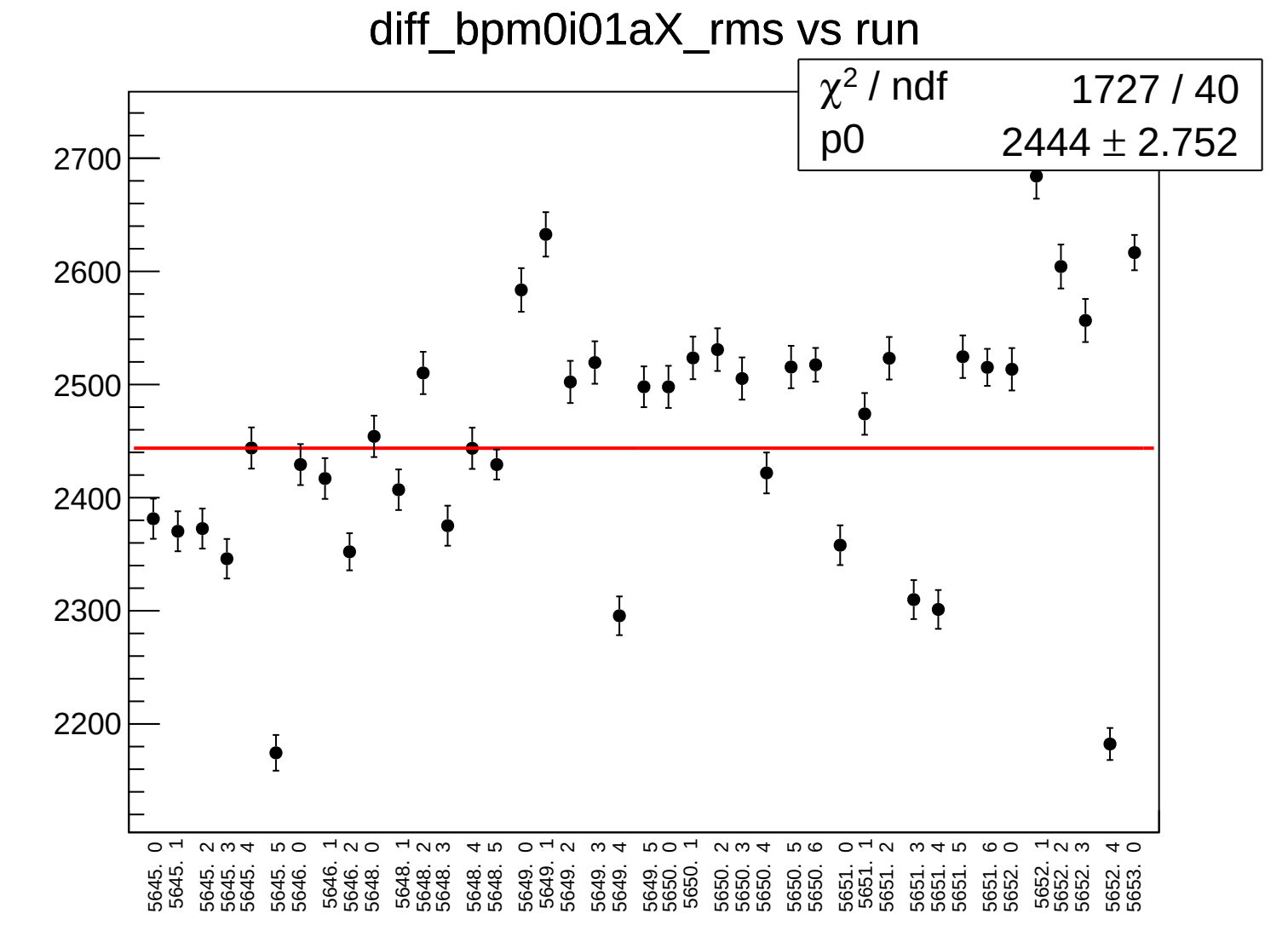

diff_bpm0i01Y_mean vs run
χ² / ndf 53.33 / 40
p0 15.91 ± 4.409
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −22.51
Std Dev 0
2
1
0
−1
−2

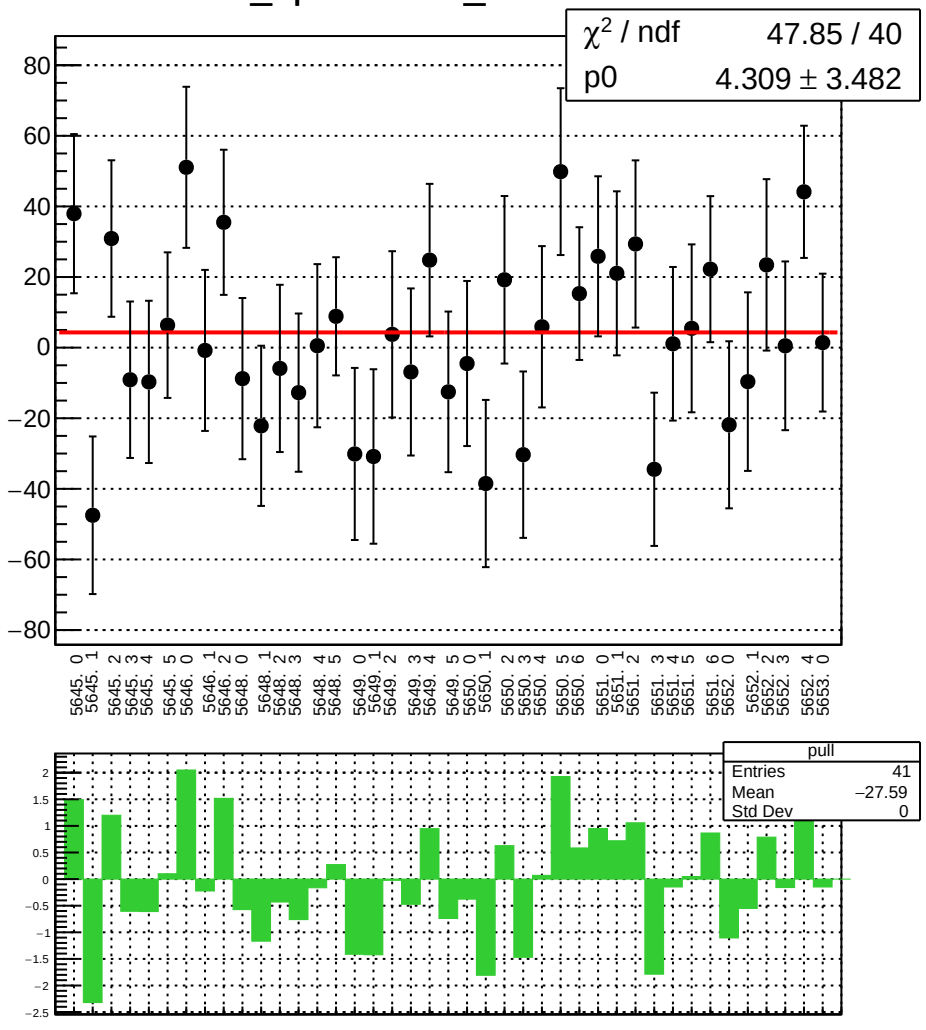

pull1D
Entries 41
Mean −0.03255
Std Dev 1.14
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

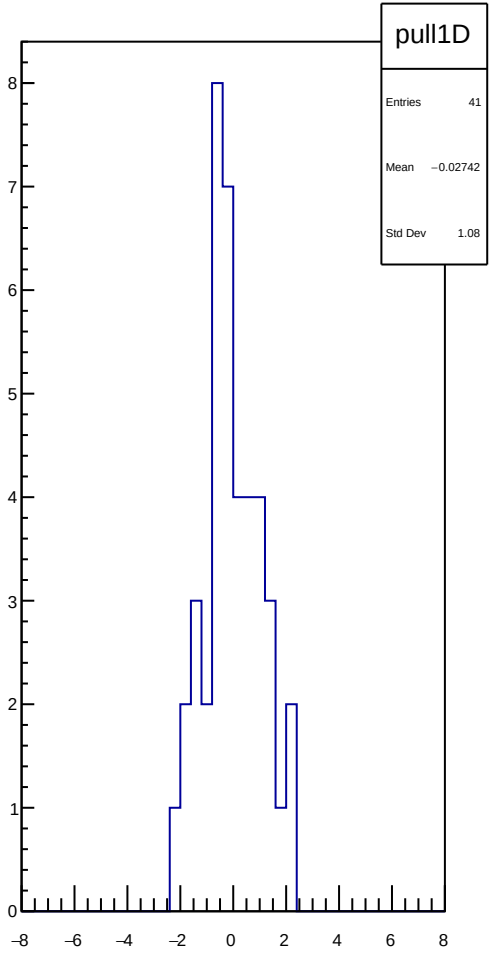

diff_bpm0i01Y_rms vs run
χ² / ndf 1595 / 40
p0 2769 ± 3.118
3100
3000
2900
2800
2700
2600
2500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

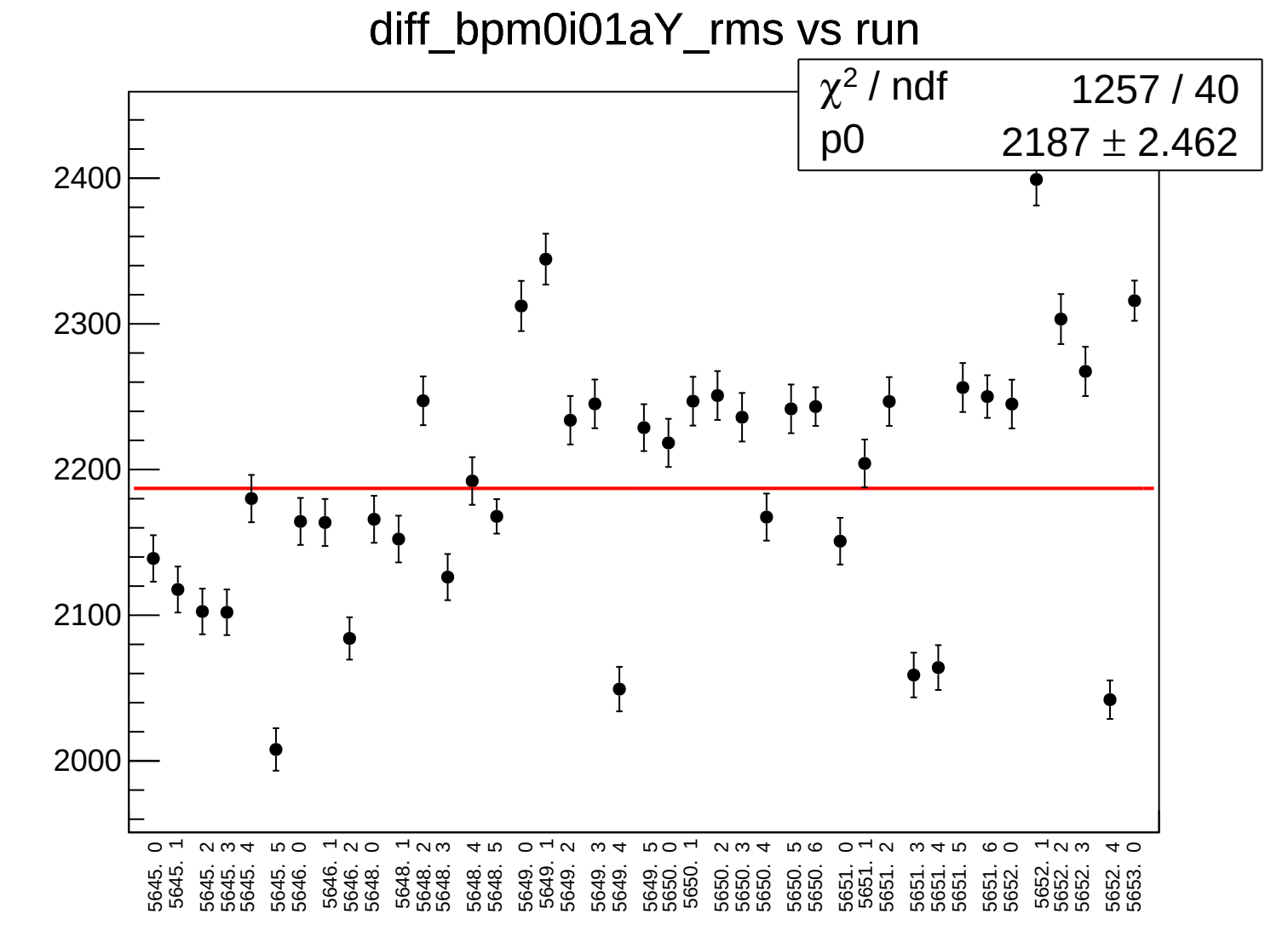

diff_bpm0i01aX_mean vs run
χ² / ndf 47.14 / 40
p0 36.73 ± 3.892
pull
Entries 41
Mean −36.63
Std Dev 0

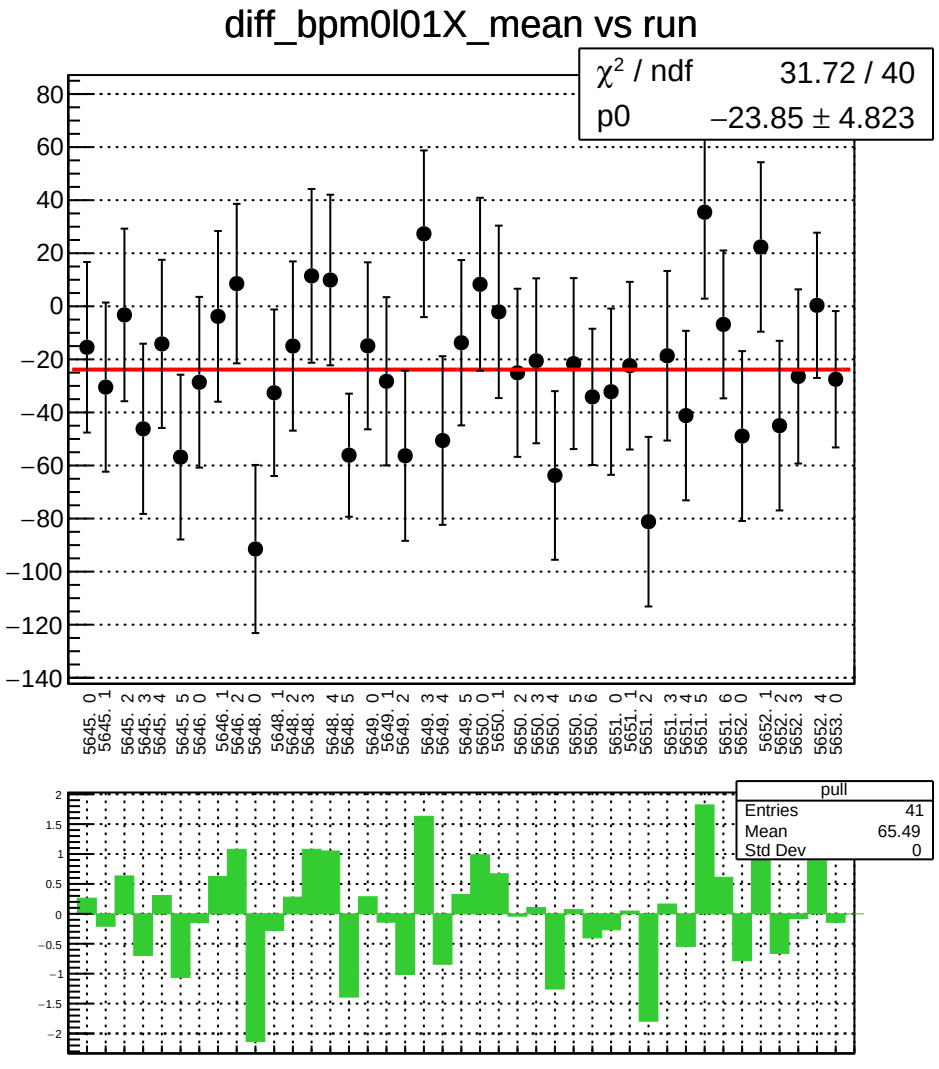

pull1D
Entries 41
Mean −0.03634
Std Dev 1.072

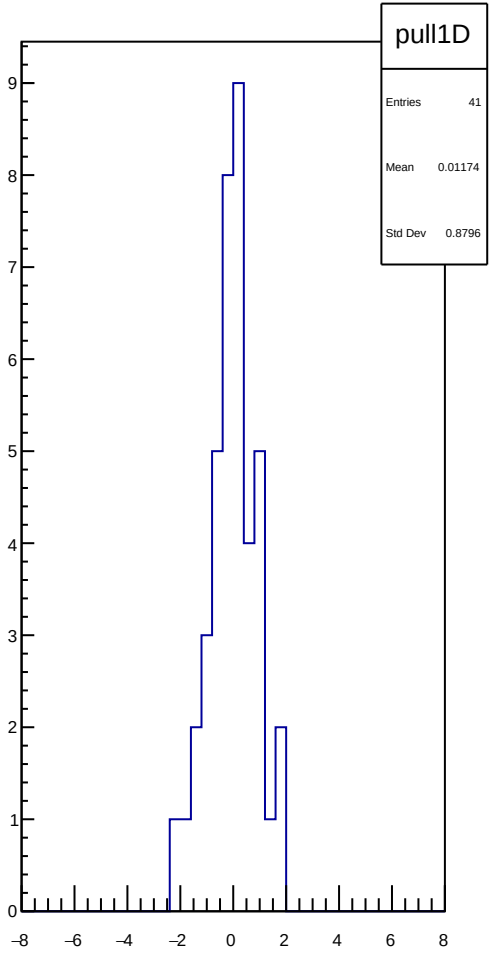

diff_bpm0i01aX_rms vs run
χ^2 / ndf 1727 / 40
p0 2444 ± 2.752
2700
2600
2500
2400
2300
2200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

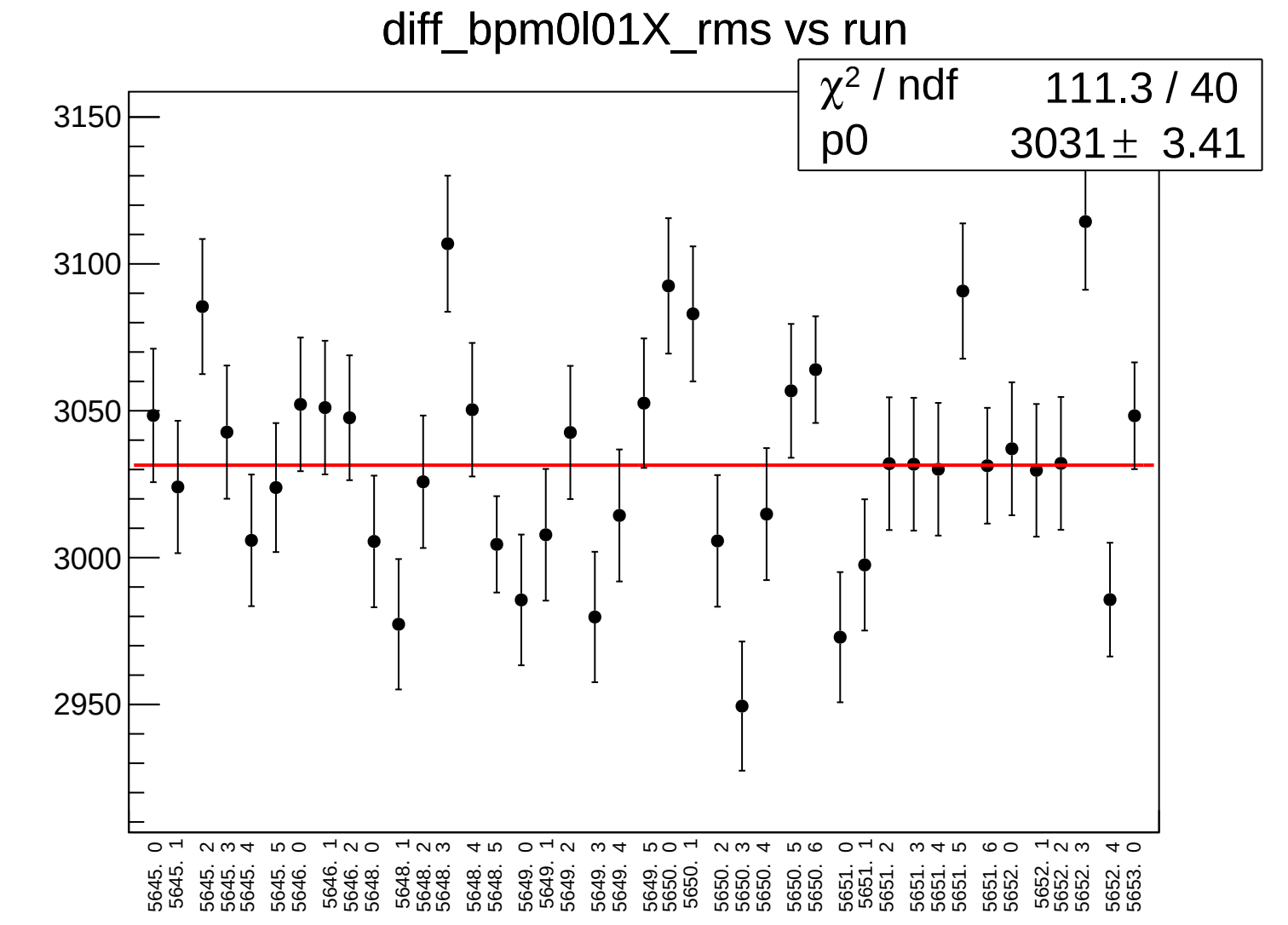

diff_bpm0i01aY_mean vs run
χ² / ndf 47.85 / 40
p0 4.309 ± 3.482
pull
Entries 41
Mean −27.59
Std Dev 0

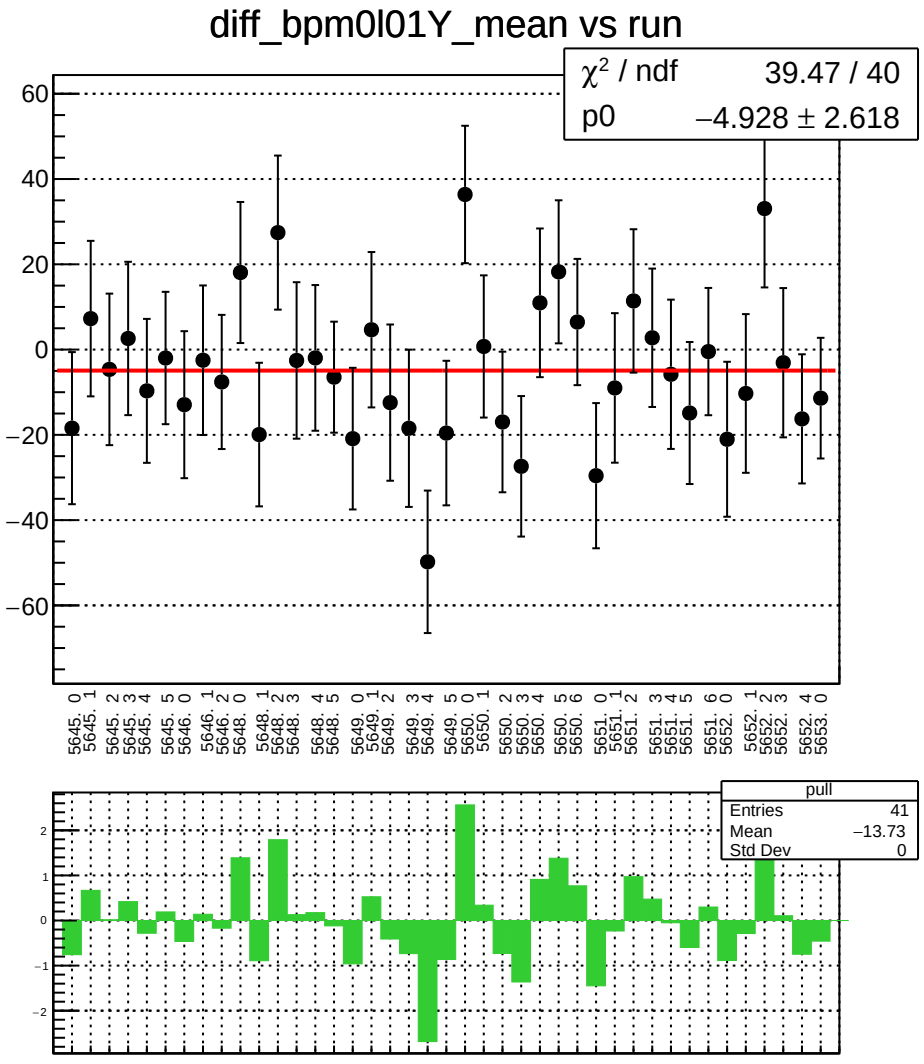

pull1D
Entries 41
Mean −0.02742
Std Dev 1.08

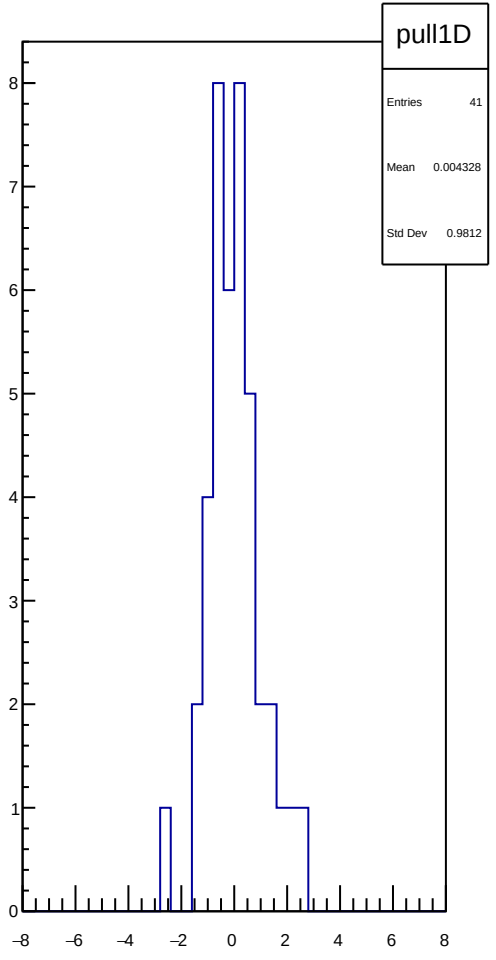

diff_bpm0i01aY_rms vs run
χ² / ndf 1257 / 40
p0 2187 ± 2.462
2400
2300
2200
2100
2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

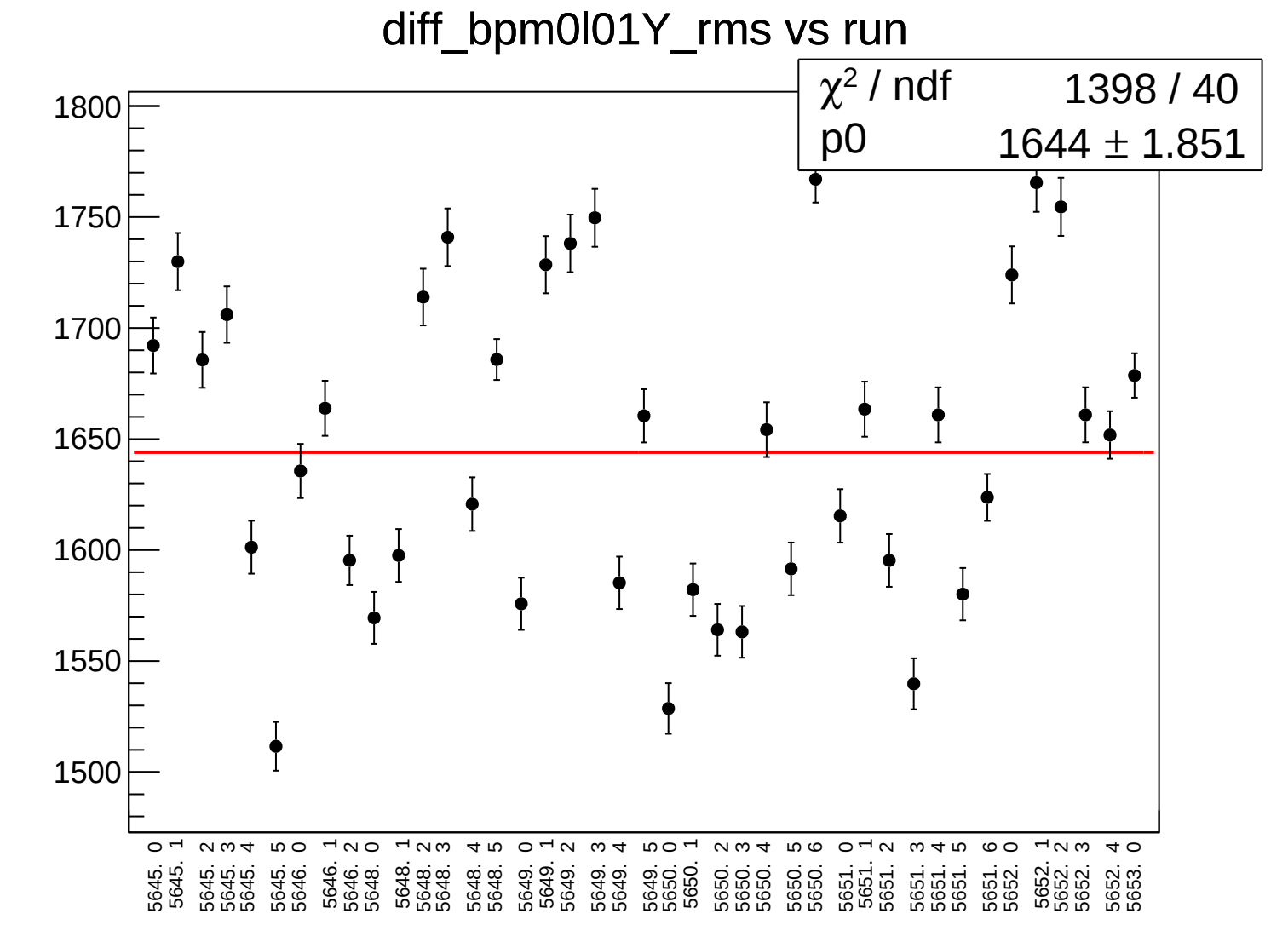

diff_bpm0l01X_mean vs run
χ² / ndf 31.72 / 40
p0 −23.85 ± 4.823
pull
Entries 41
Mean 65.49
Std Dev 0

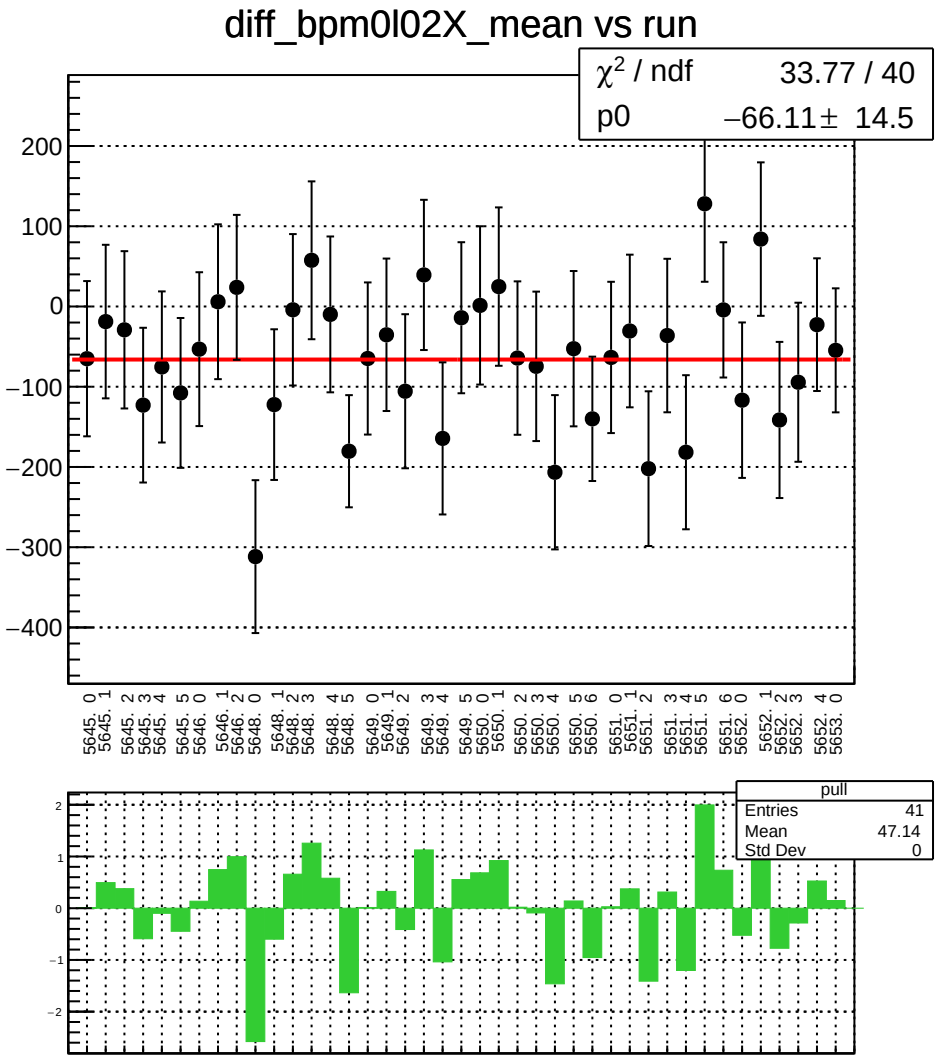

pull1D
Entries 41
Mean 0.01174
Std Dev 0.8796

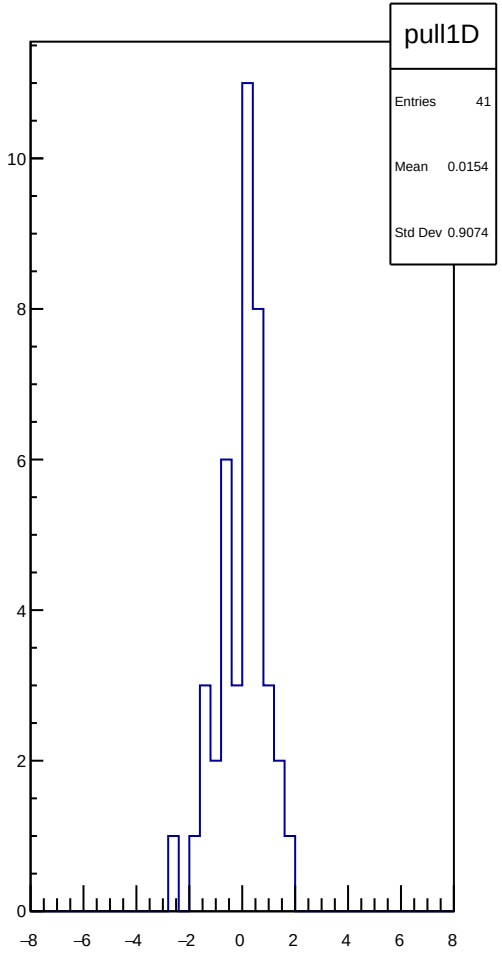

diff_bpm0l01X_rms vs run
χ² / ndf 111.3 / 40
p0 3031 ± 3.41
3150
3100
3050
3000
2950
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

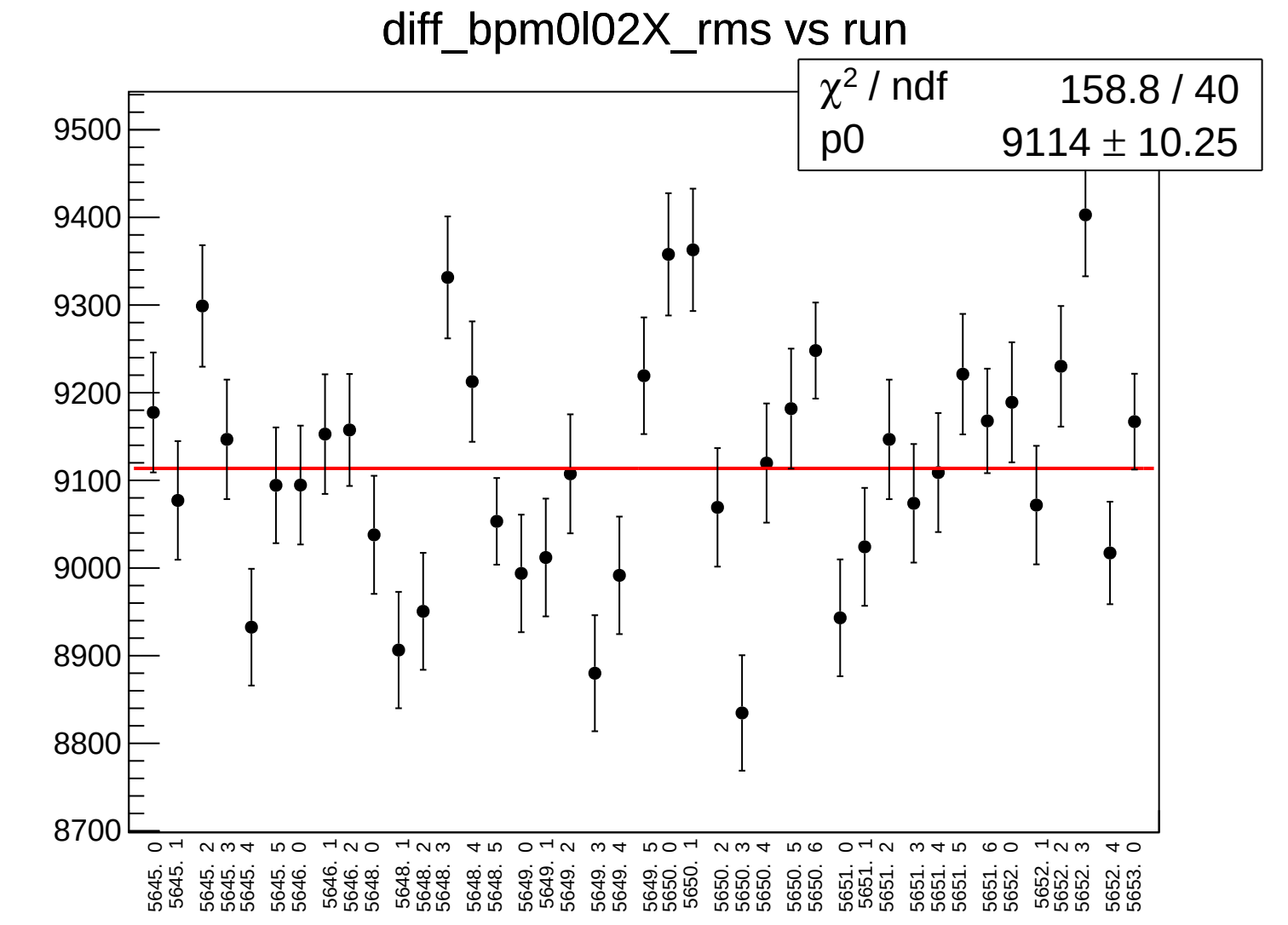

diff_bpm0l01Y_mean vs run
χ² / ndf 39.47 / 40
p0 −4.928 ± 2.618
pull
Entries 41
Mean −13.73
Std Dev 0

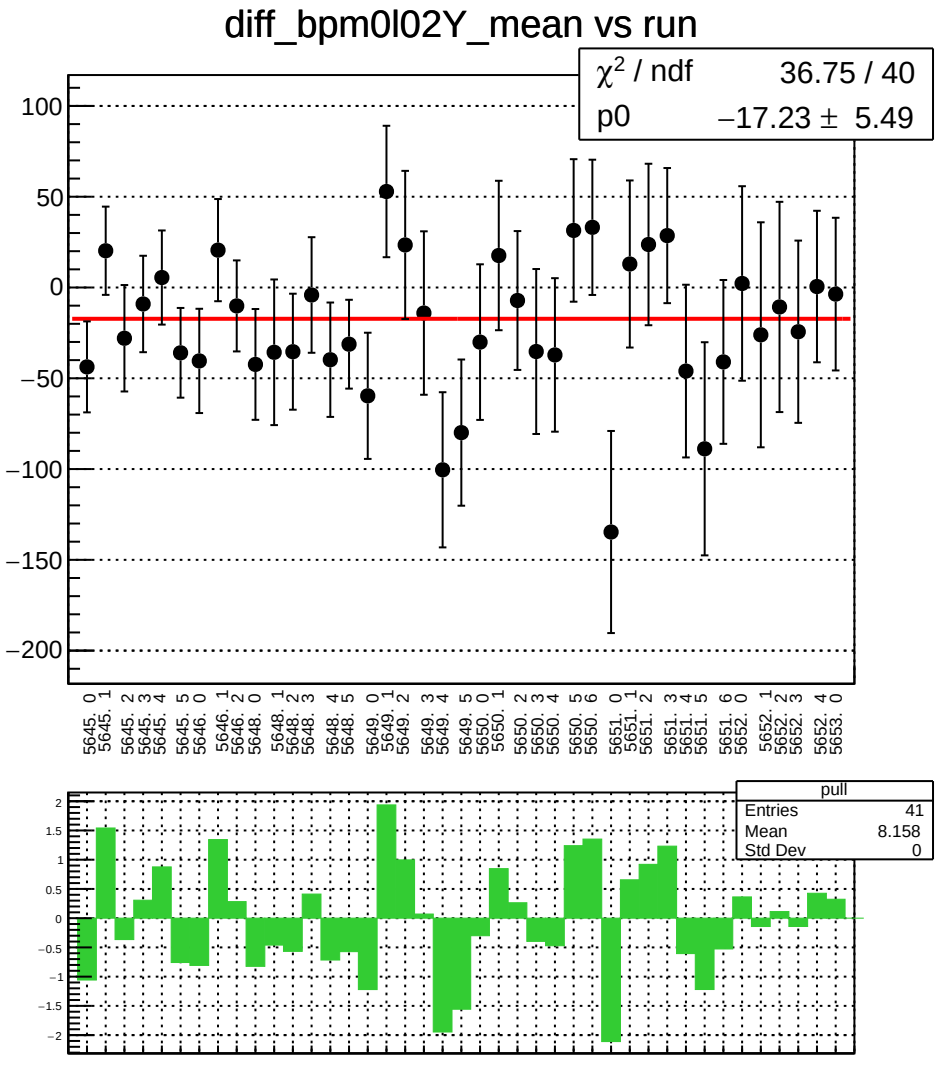

pull1D
Entries 41
Mean 0.004328
Std Dev 0.9812

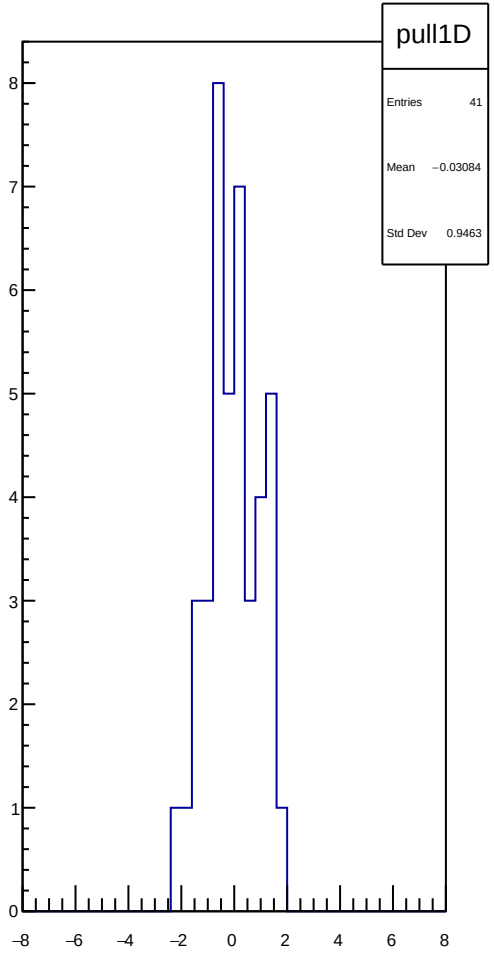

diff_bpm0l01Y_rms vs run
χ² / ndf 1398 / 40
p0 1644 ± 1.851
1800
1750
1700
1650
1600
1550
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

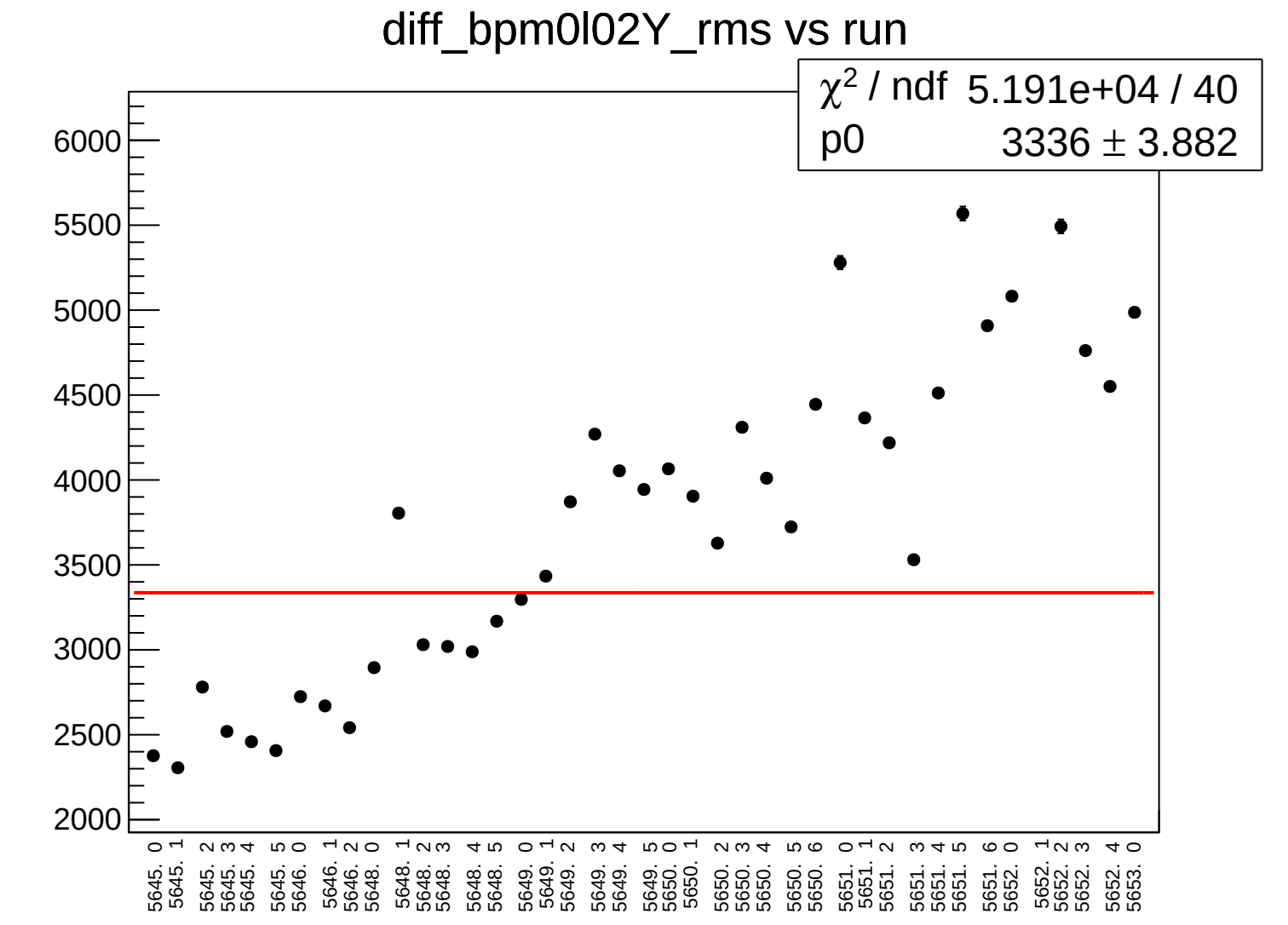

diff_bpm0l02X_mean vs run
χ² / ndf 33.77 / 40
p0 −66.11 ± 14.5
pull
Entries 41
Mean 47.14
Std Dev 0

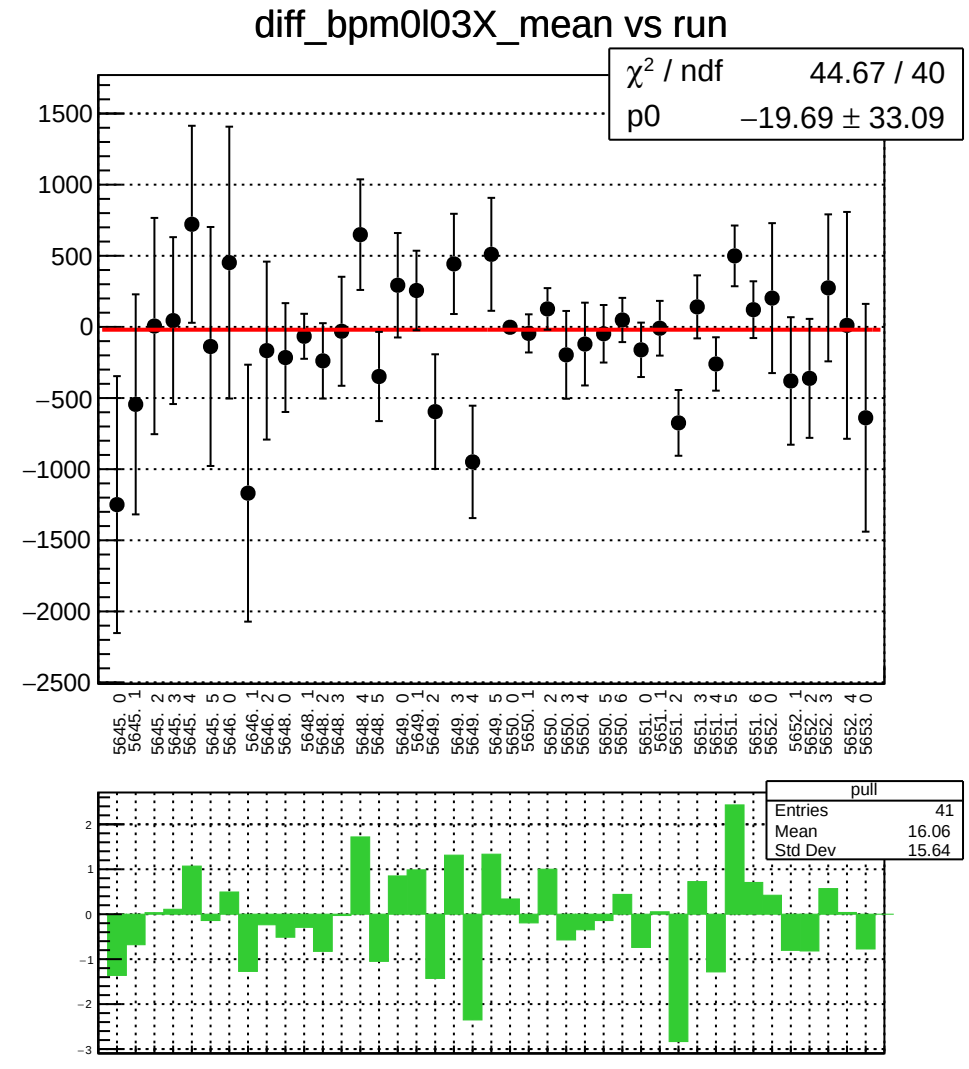

pull1D
Entries 41
Mean 0.0154
Std Dev 0.9074

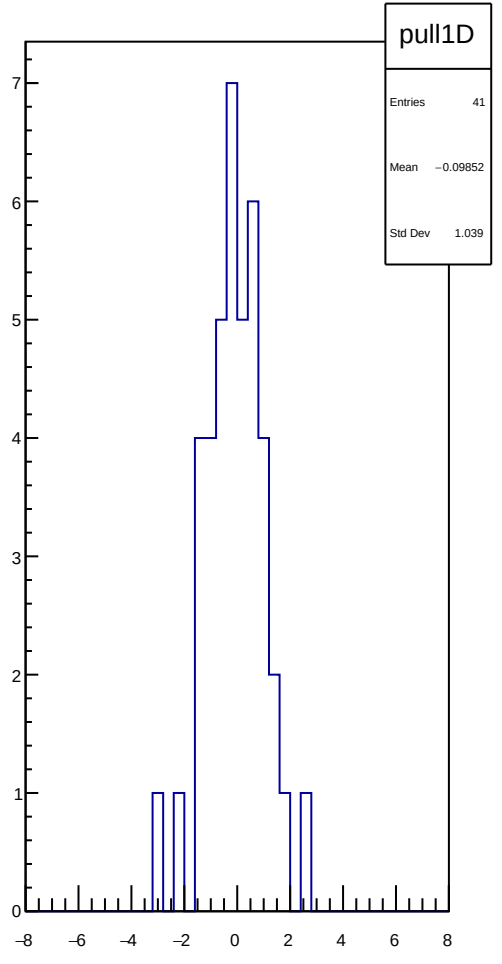

diff_bpm0l02X_rms vs run
χ² / ndf 158.8 / 40
p0 9114 ± 10.25
9500
9400
9300
9200
9100
9000
8900
8800
8700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

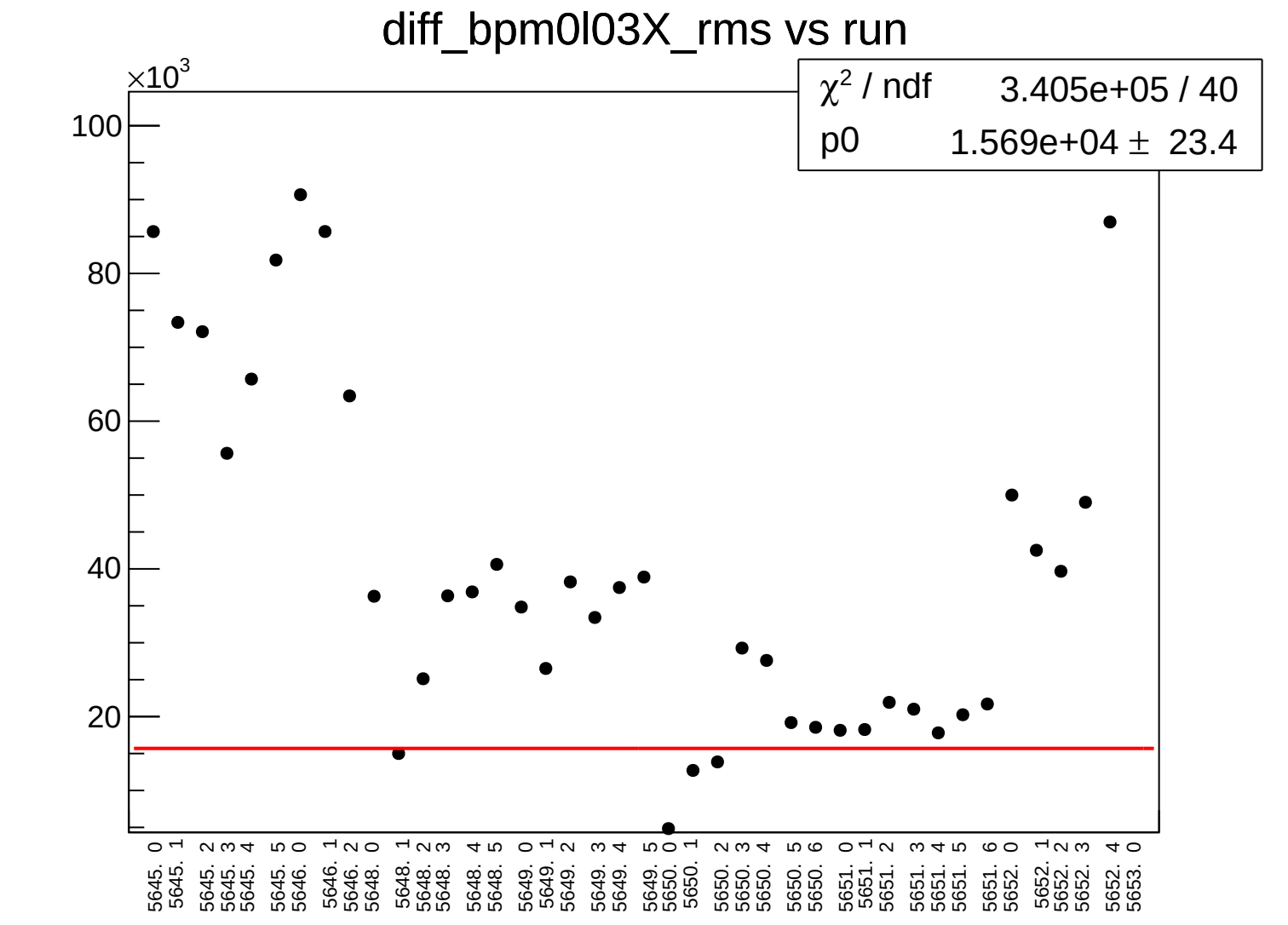

diff_bpm0l02Y_mean vs run
χ² / ndf 36.75 / 40
p0 −17.23 ± 5.49
100
50
0
−50
−100
−150
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

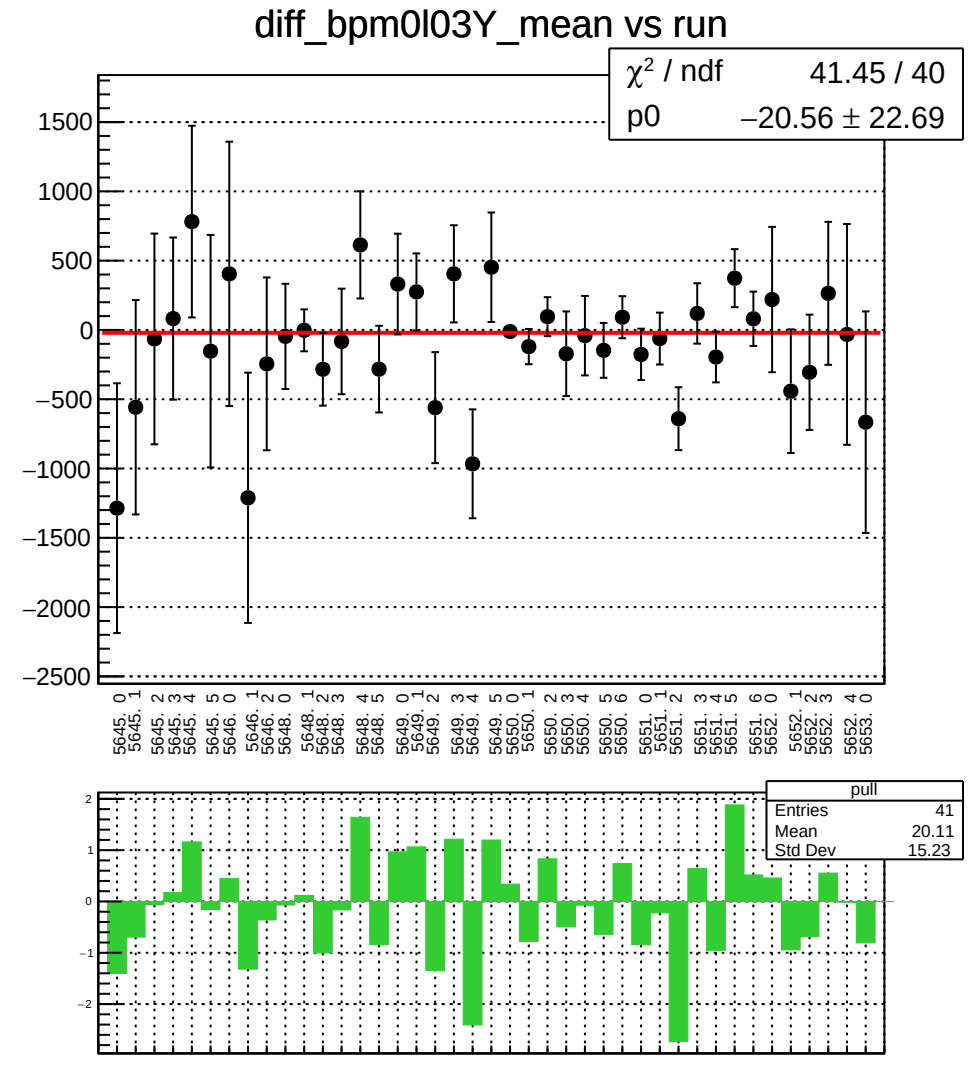

pull1D
Entries 41
Mean −0.03084
Std Dev 0.9463
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

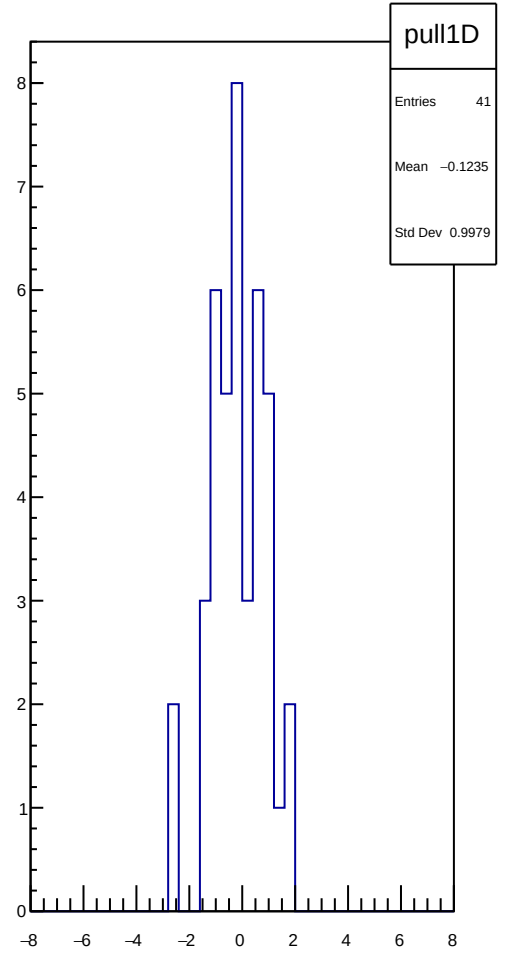

diff_bpm0l02Y_rms vs run
χ² / ndf 5.191e+04 / 40
p0 3336 ± 3.882
6000
5500
5000
4500
4000
3500
3000
2500
2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

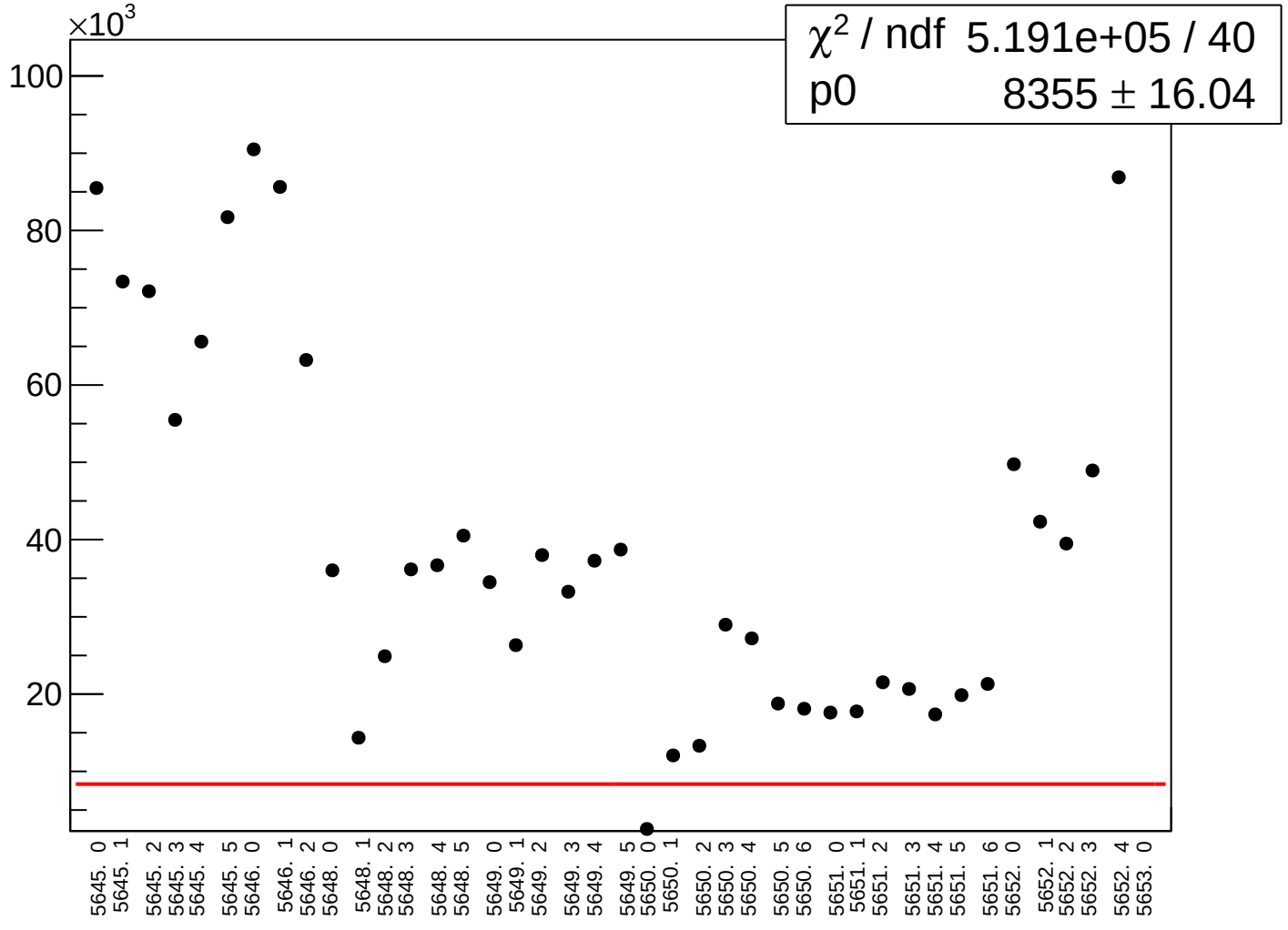

diff_bpm0l03X_mean vs run
χ² / ndf 44.67 / 40
p0 −19.69 ± 33.09
pull
Entries 41
Mean 16.06
Std Dev 15.64

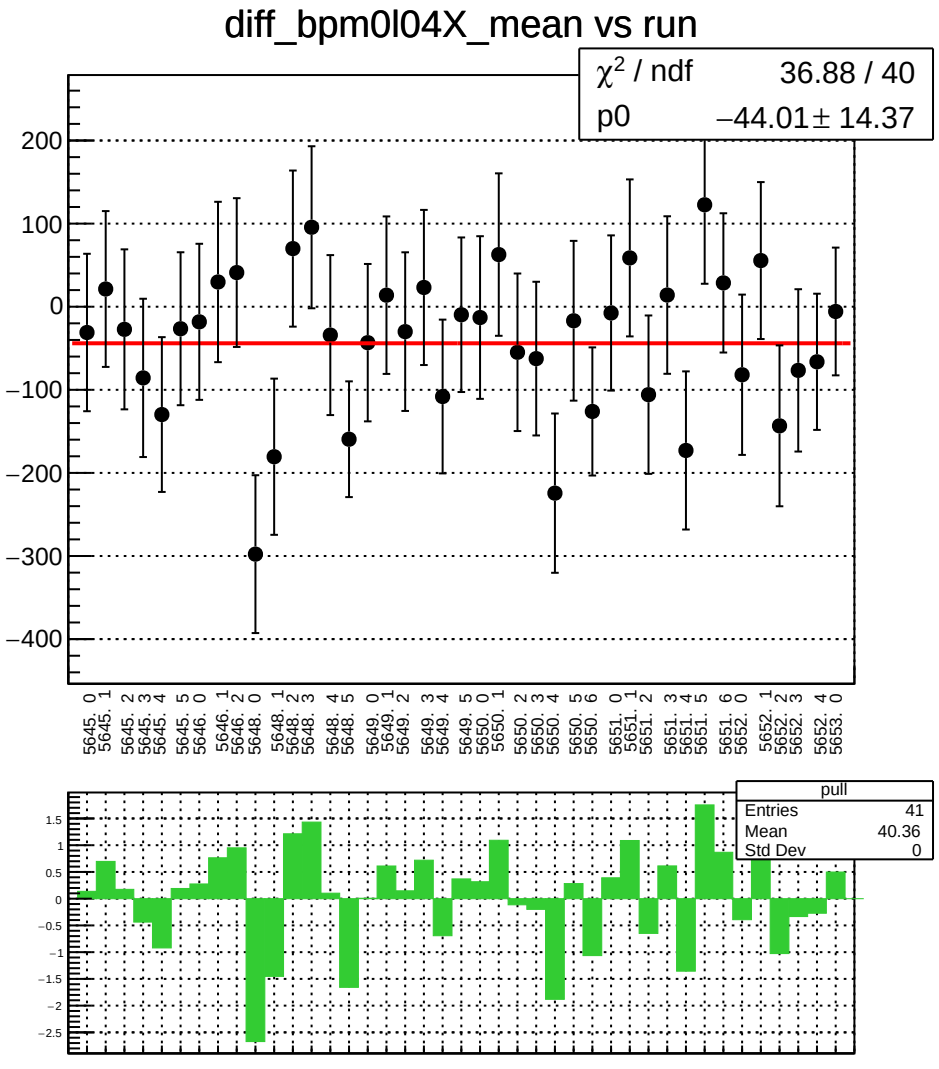

pull1D
Entries 41
Mean −0.09852
Std Dev 1.039

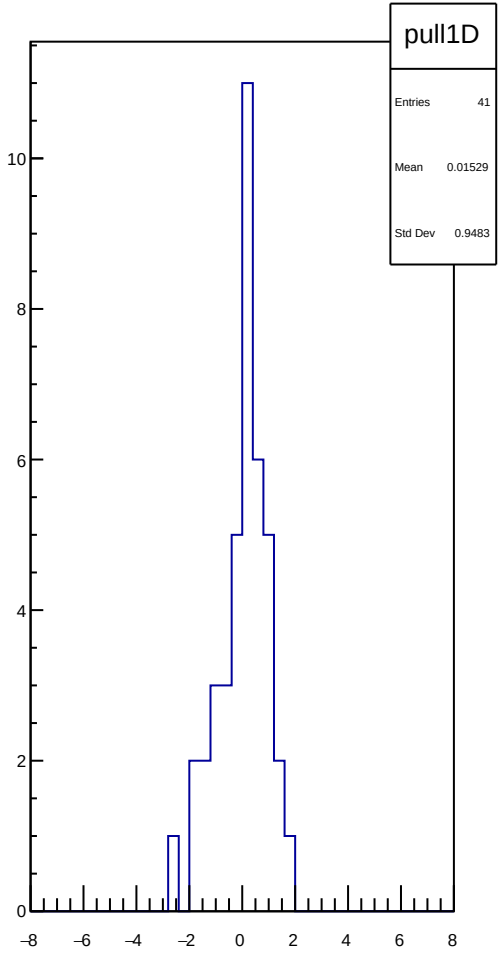

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 3.405e+05 / 40
p0 1.569e+04 ± 23.4
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

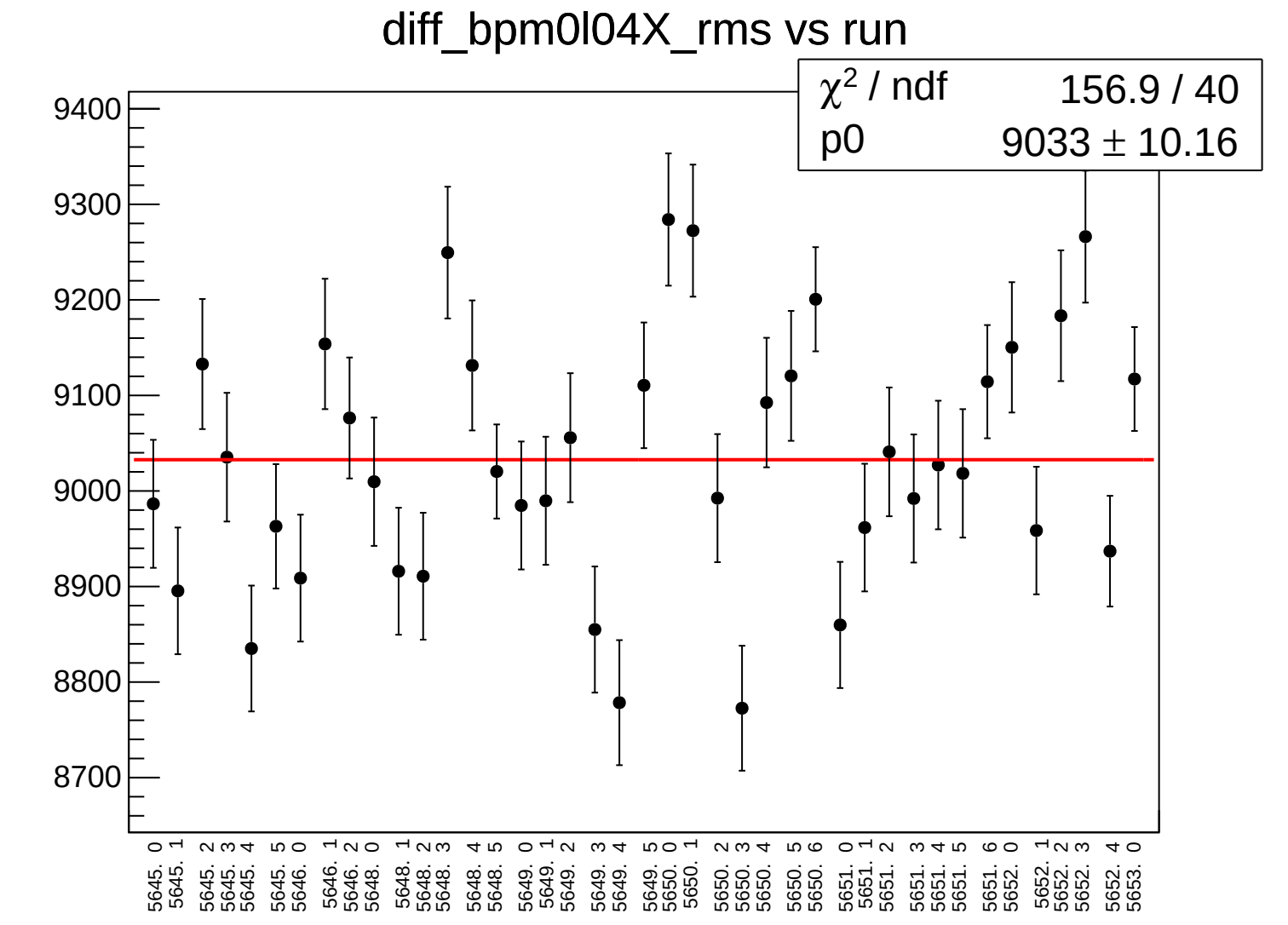

diff_bpm0l03Y_mean vs run
χ² / ndf 41.45 / 40
p0 −20.56 ± 22.69
pull
Entries 41
Mean 20.11
Std Dev 15.23

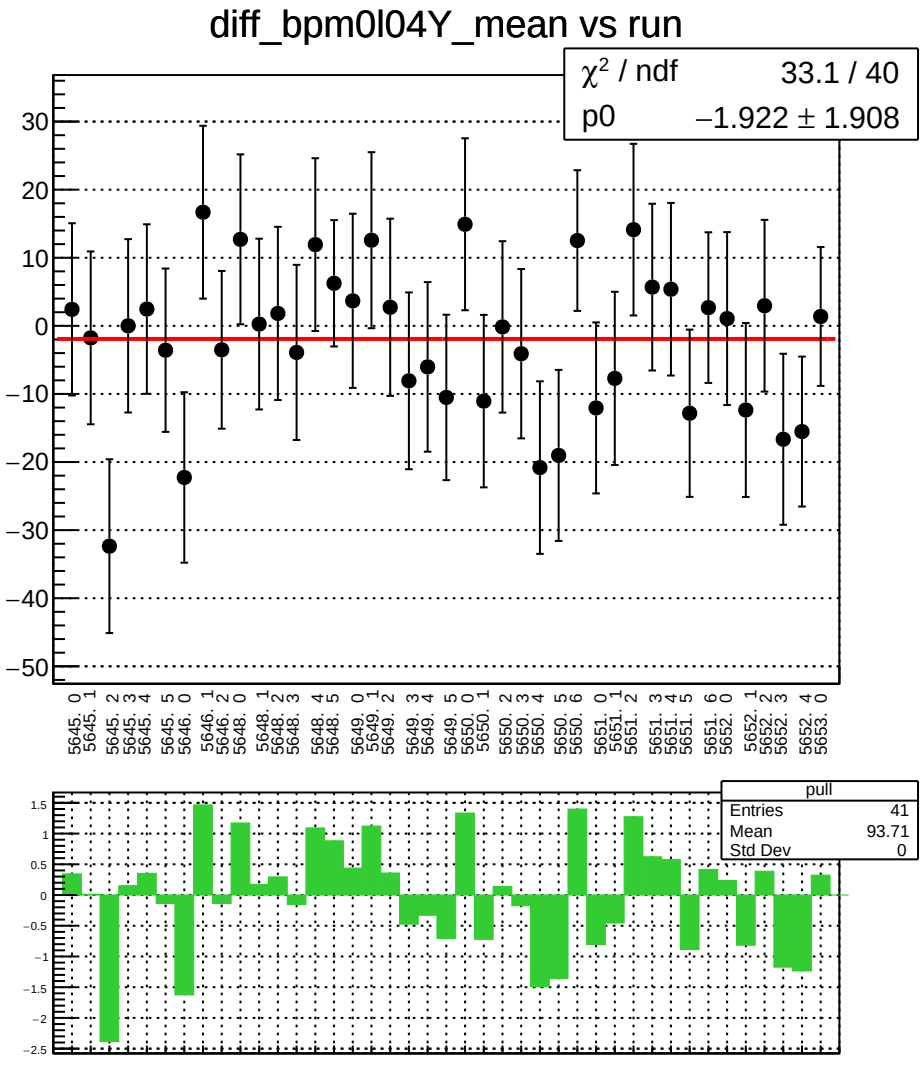

pull1D
Entries 41
Mean −0.1235
Std Dev 0.9979

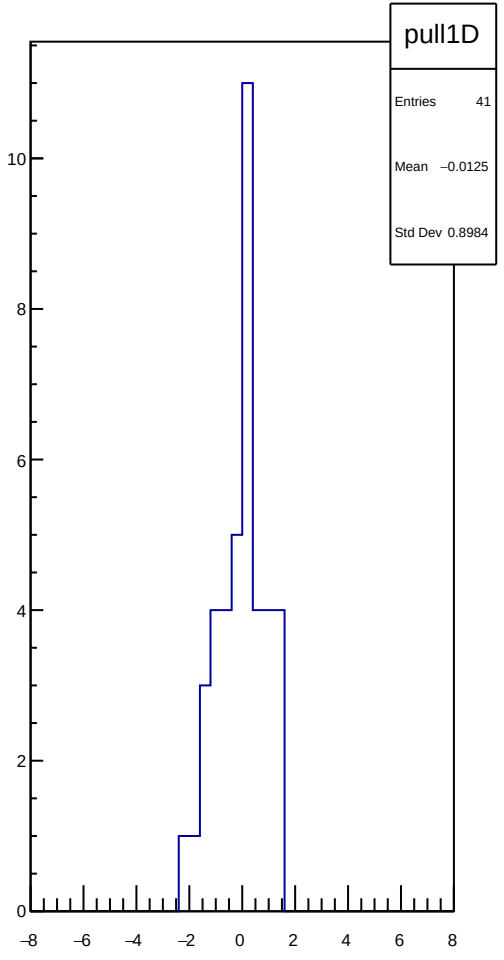

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 5.191e+05 / 40
p0 8355 ± 16.04
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

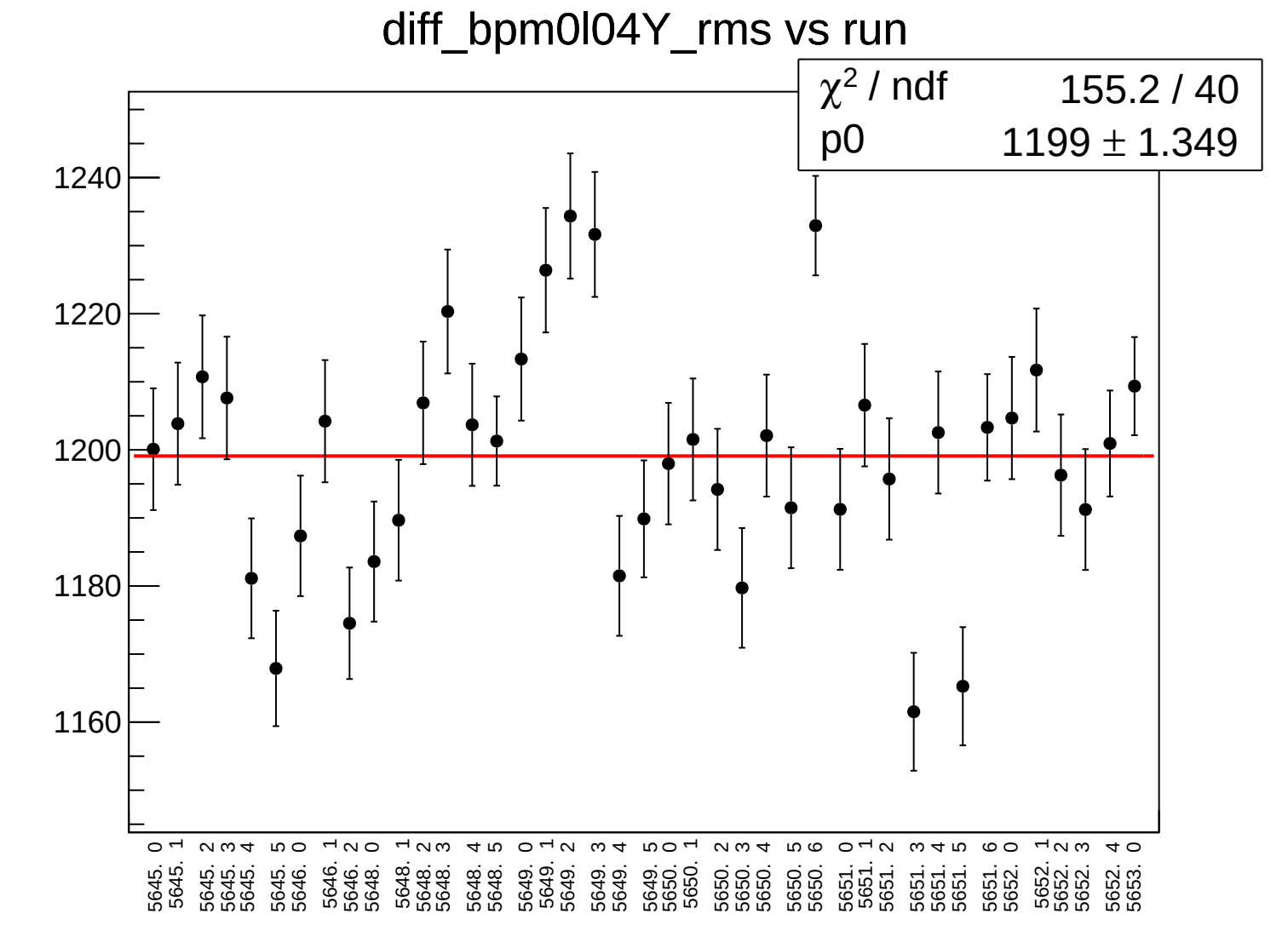

diff_bpm0l04X_mean vs run
χ² / ndf 36.88 / 40
p0 −44.01± 14.37
200
100
0
−100
−200
−300
−400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

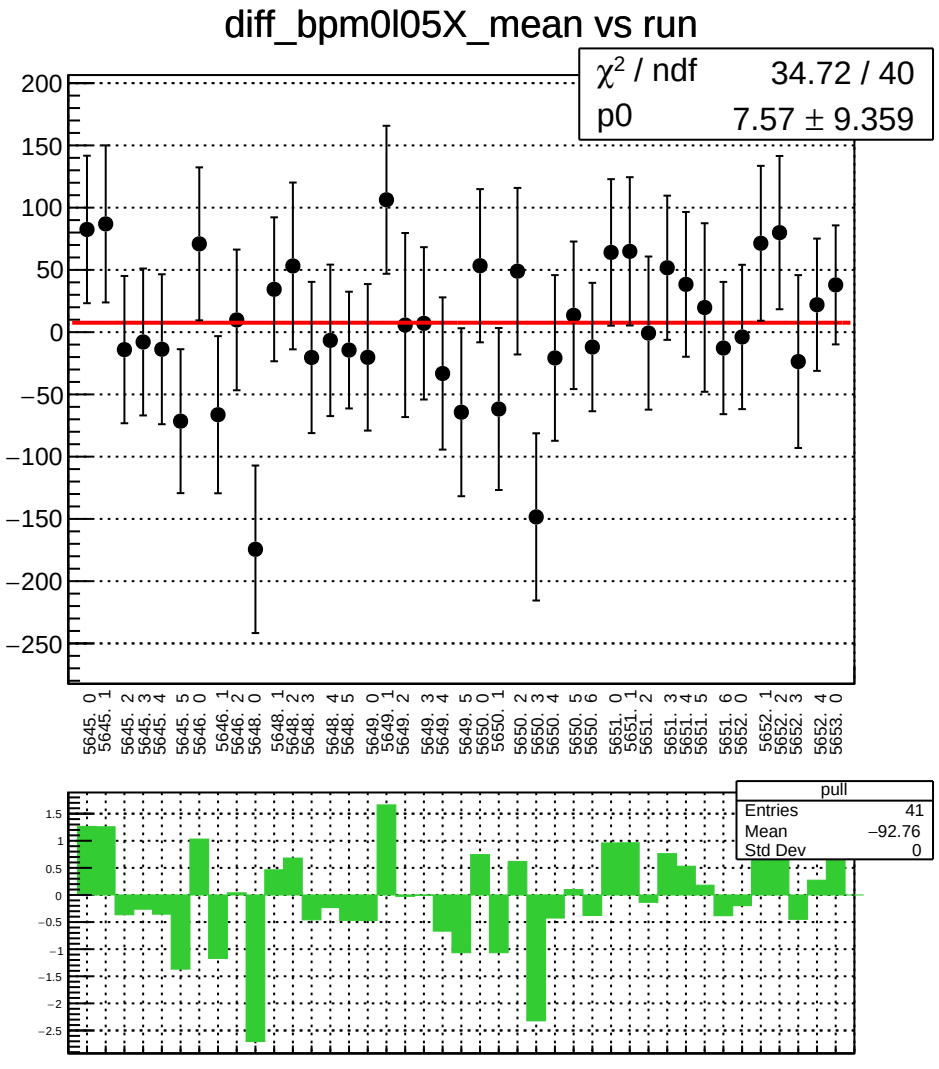

pull1D
Entries 41
Mean 0.01529
Std Dev 0.9483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

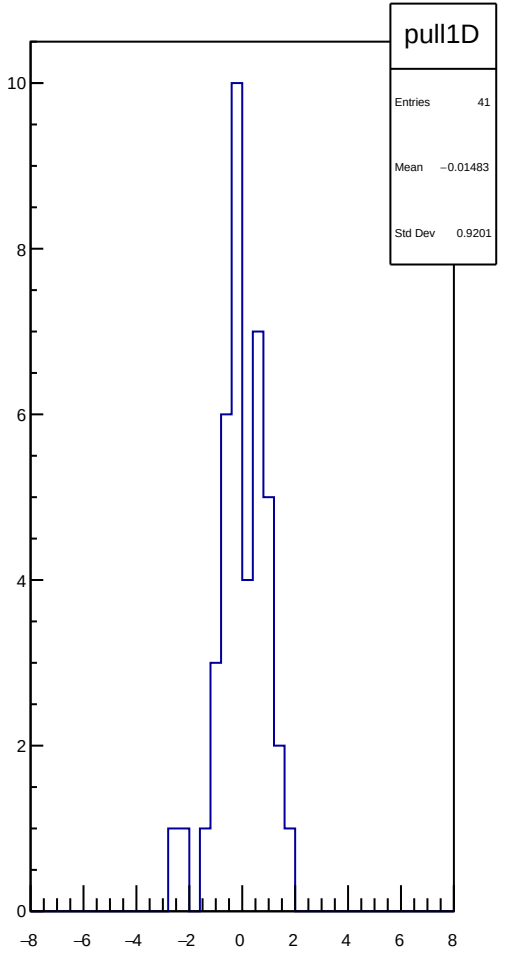

diff_bpm0l04X_rms vs run
χ² / ndf 156.9 / 40
p0 9033 ± 10.16
9400
9300
9200
9100
9000
8900
8800
8700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

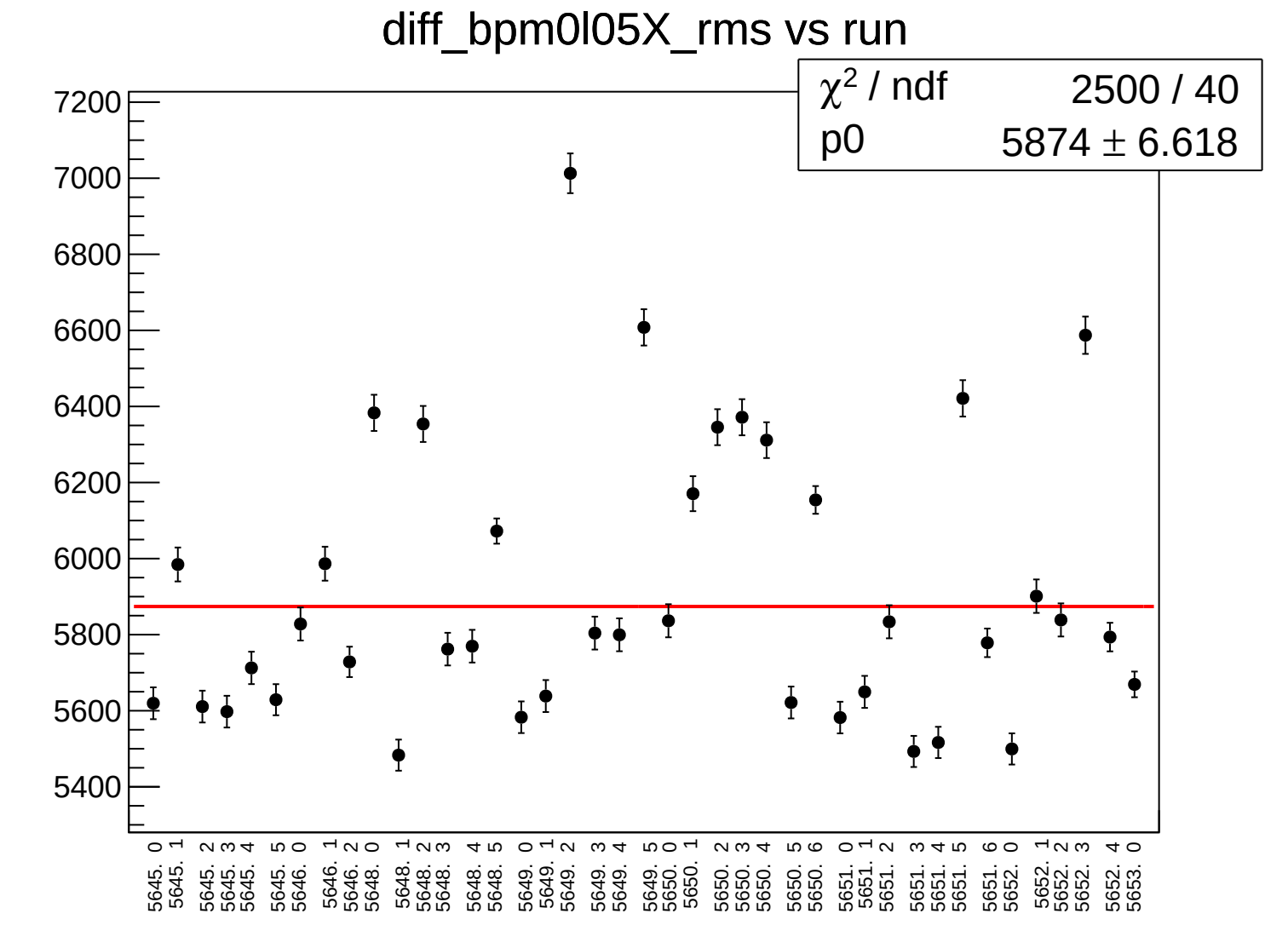

diff_bpm0l04Y_mean vs run
χ² / ndf 33.1 / 40
p0 −1.922 ± 1.908
pull
Entries 41
Mean 93.71
Std Dev 0

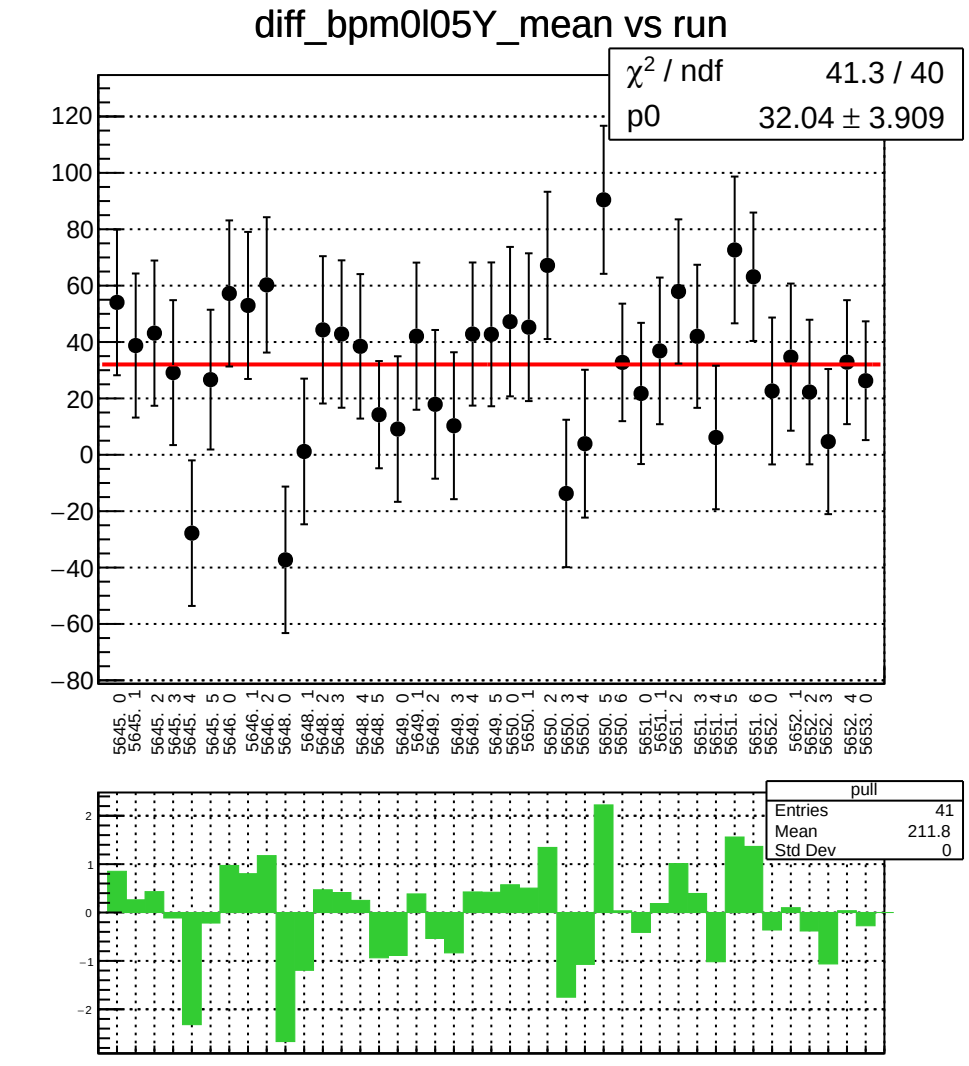

pull1D
Entries 41
Mean −0.0125
Std Dev 0.8984

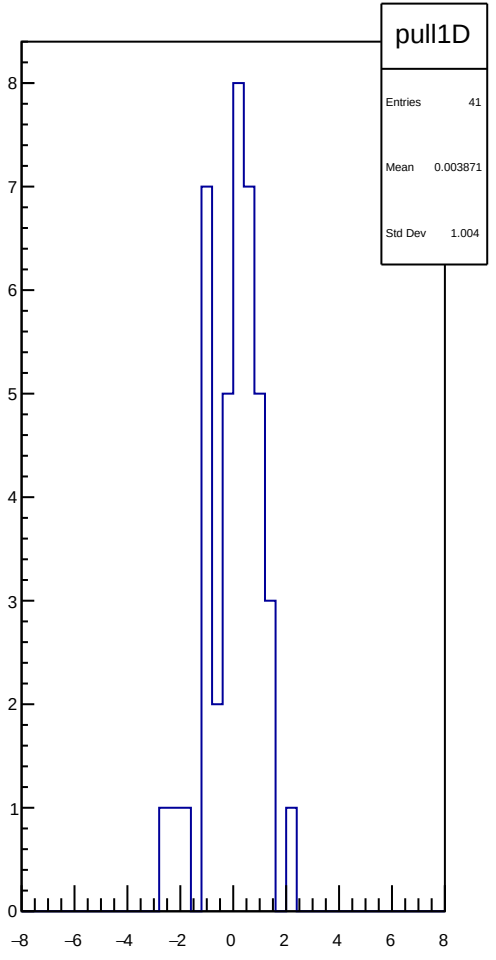

diff_bpm0l04Y_rms vs run
χ² / ndf 155.2 / 40
p0 1199 ± 1.349
1240
1220
1200
1180
1160
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

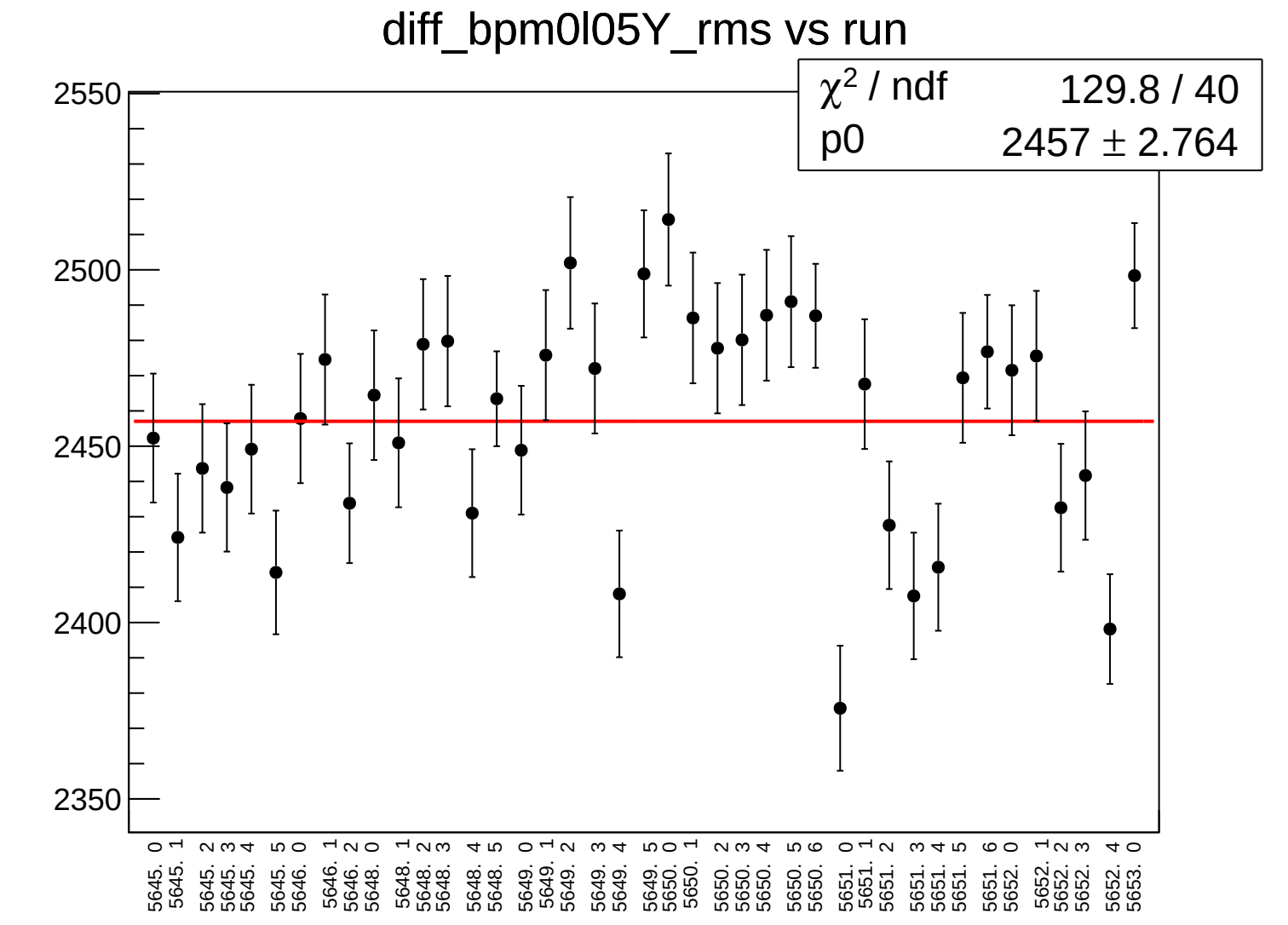

diff_bpm0l05X_mean vs run
χ² / ndf 34.72 / 40
p0 7.57 ± 9.359
pull
Entries 41
Mean −92.76
Std Dev 0

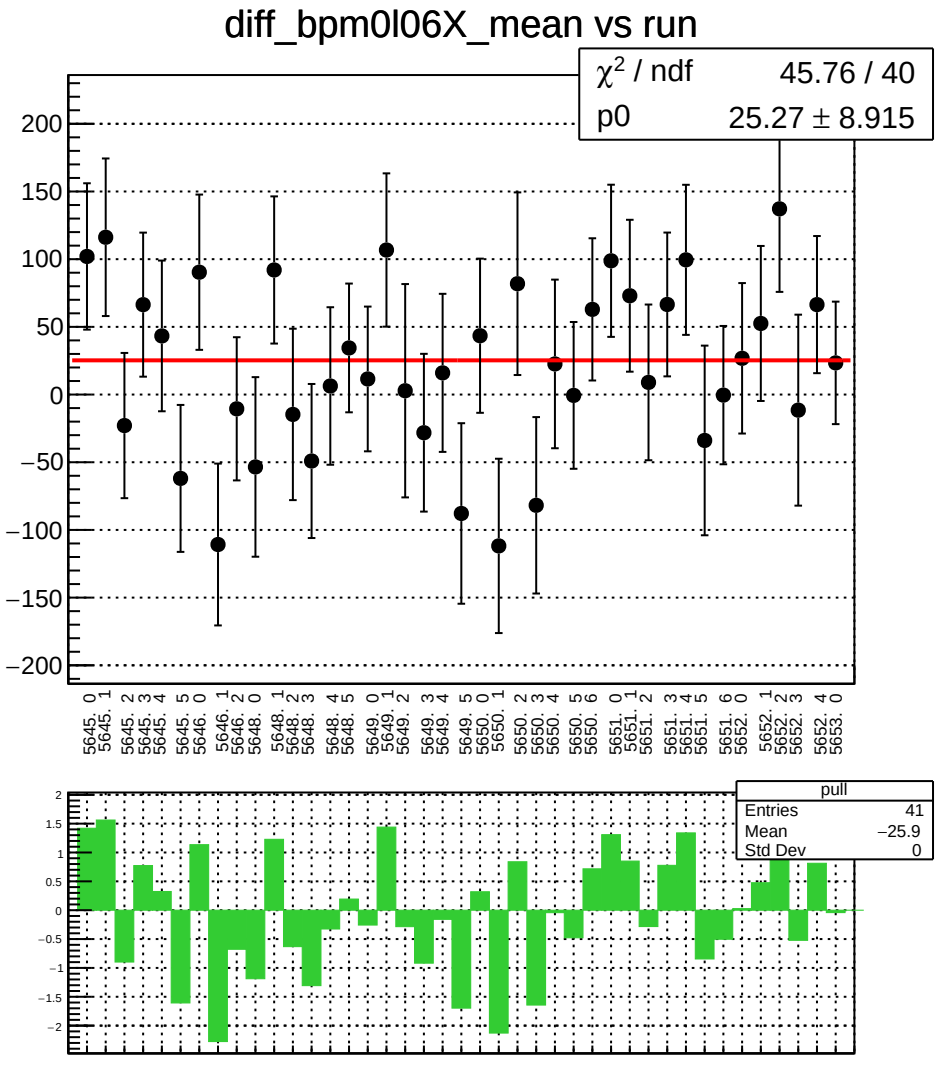

pull1D
Entries 41
Mean −0.01483
Std Dev 0.9201

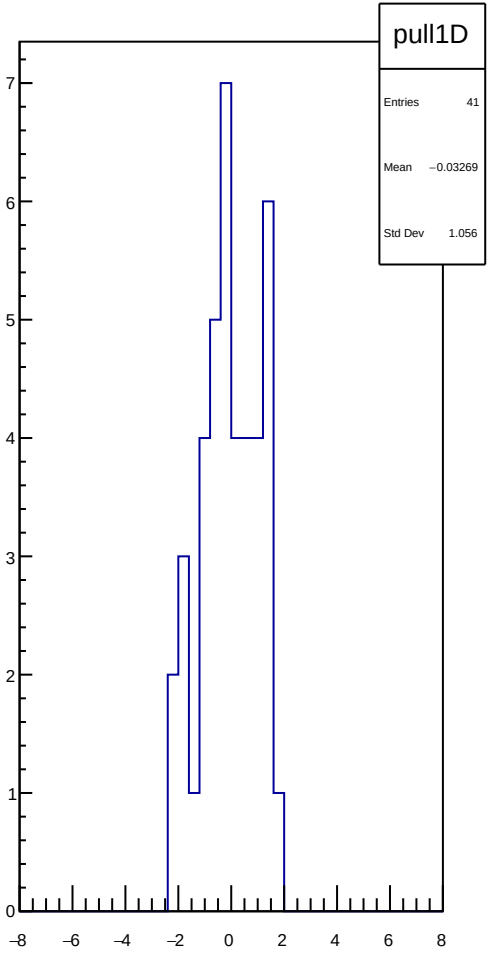

diff_bpm0l05X_rms vs run
χ² / ndf 2500 / 40
p0 5874 ± 6.618
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

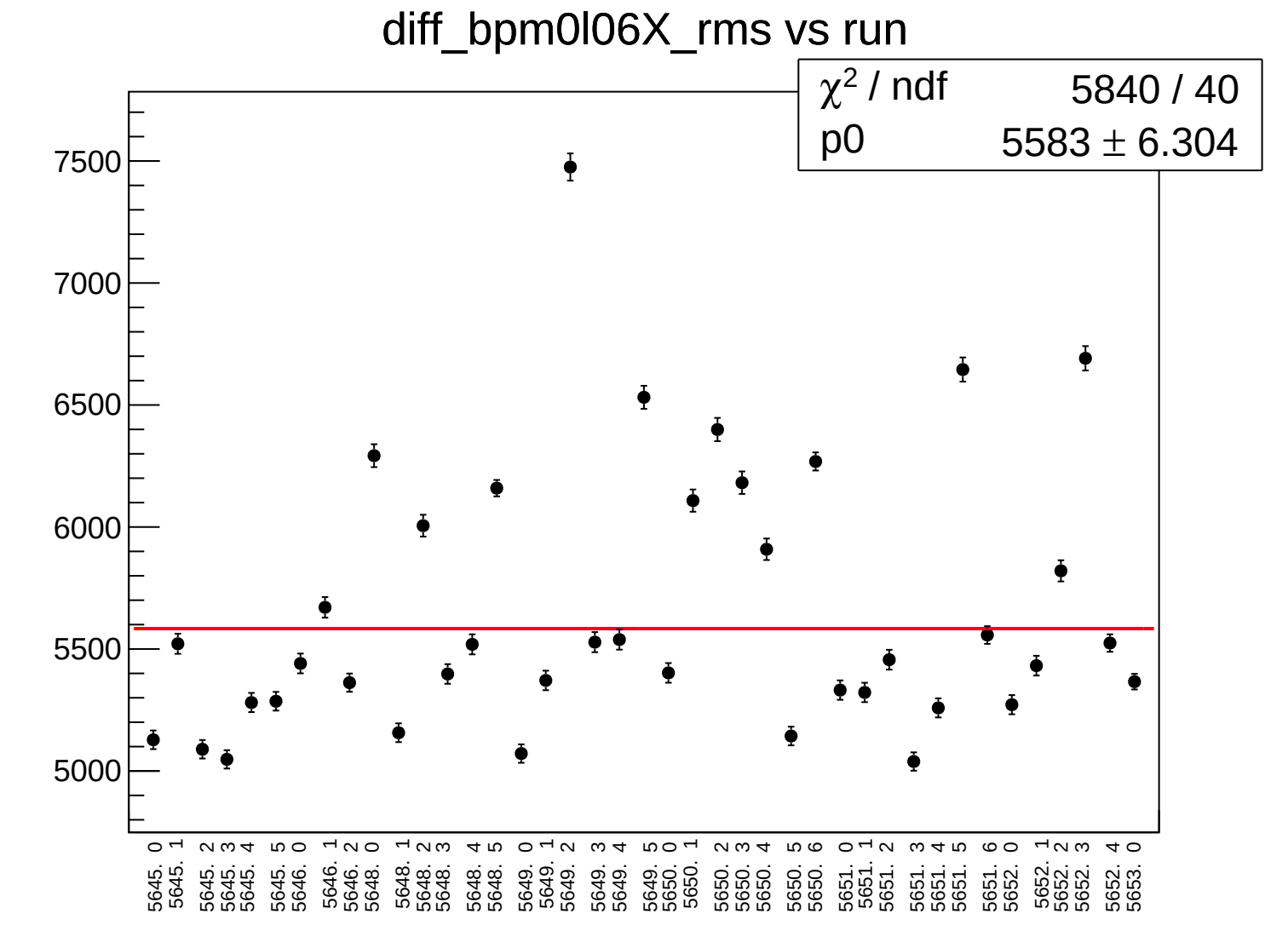

diff_bpm0l05Y_mean vs run
χ^2 / ndf 41.3 / 40
p0 32.04 ± 3.909
pull
Entries 41
Mean 211.8
Std Dev 0

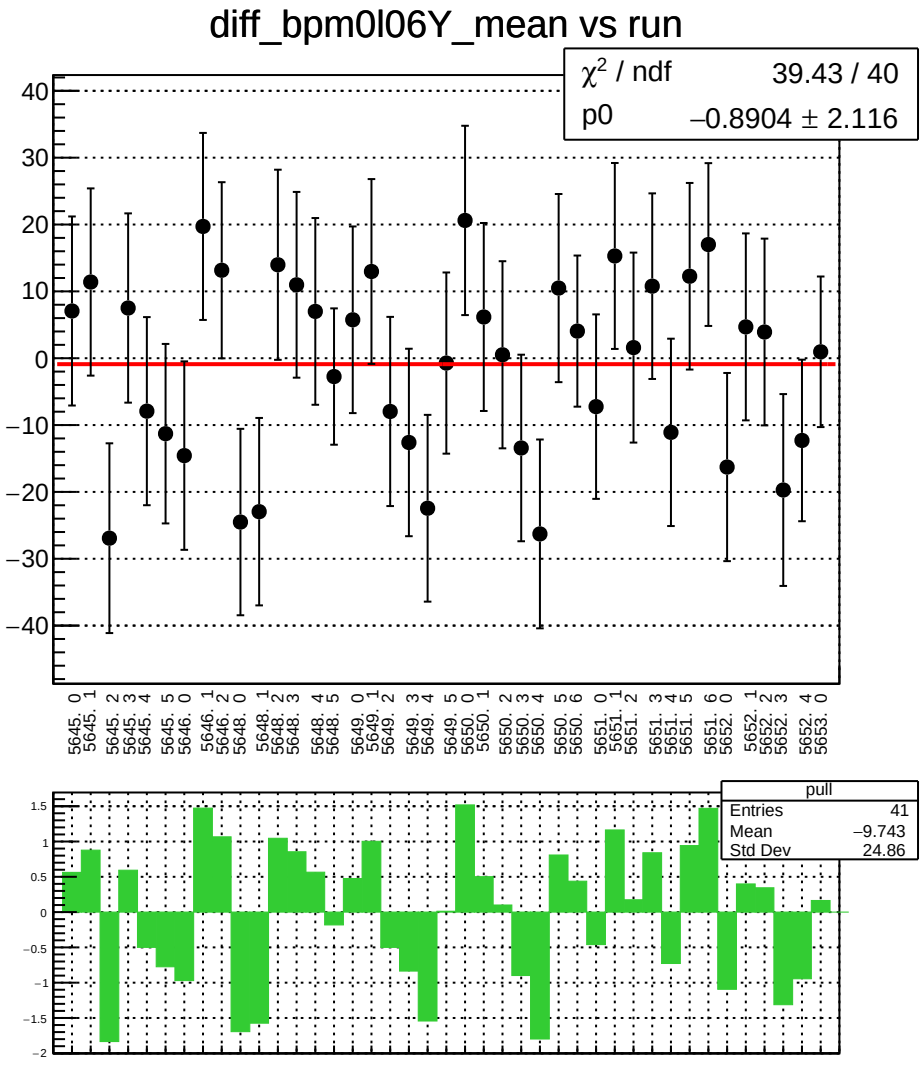

pull1D
Entries 41
Mean 0.003871
Std Dev 1.004

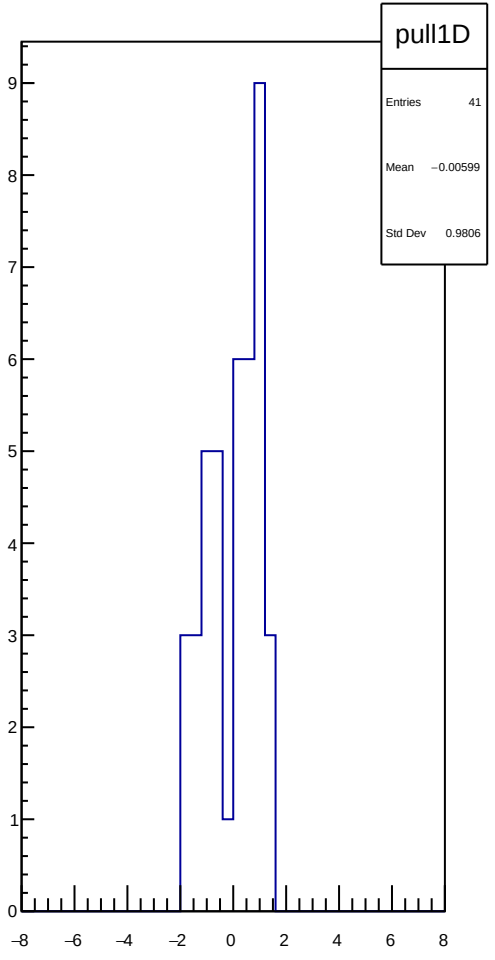

diff_bpm0l05Y_rms vs run
χ² / ndf 129.8 / 40
p0 2457 ± 2.764
2550
2500
2450
2400
2350
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

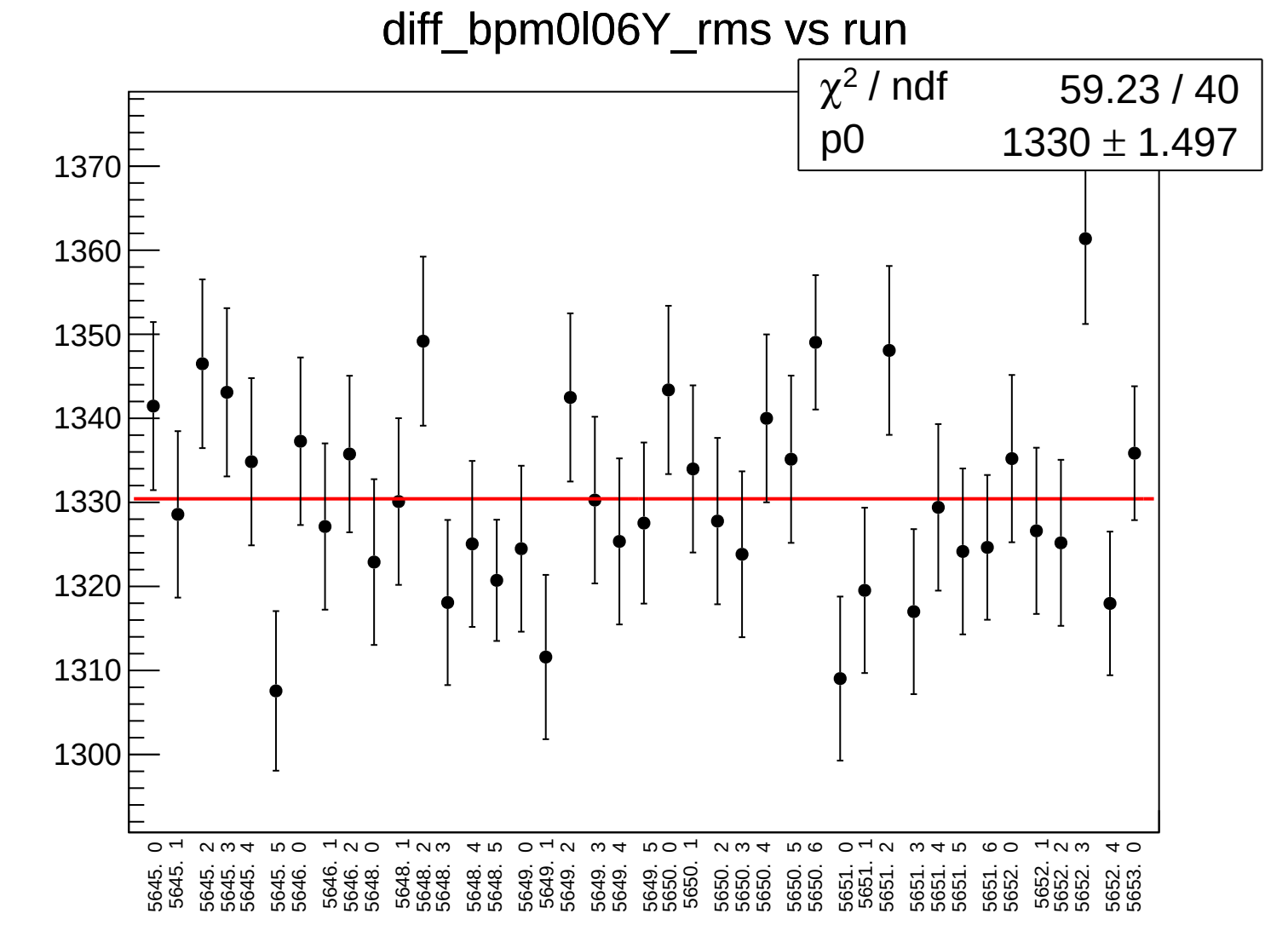

diff_bpm0l06X_mean vs run
χ² / ndf 45.76 / 40
p0 25.27 ± 8.915
pull
Entries 41
Mean −25.9
Std Dev 0

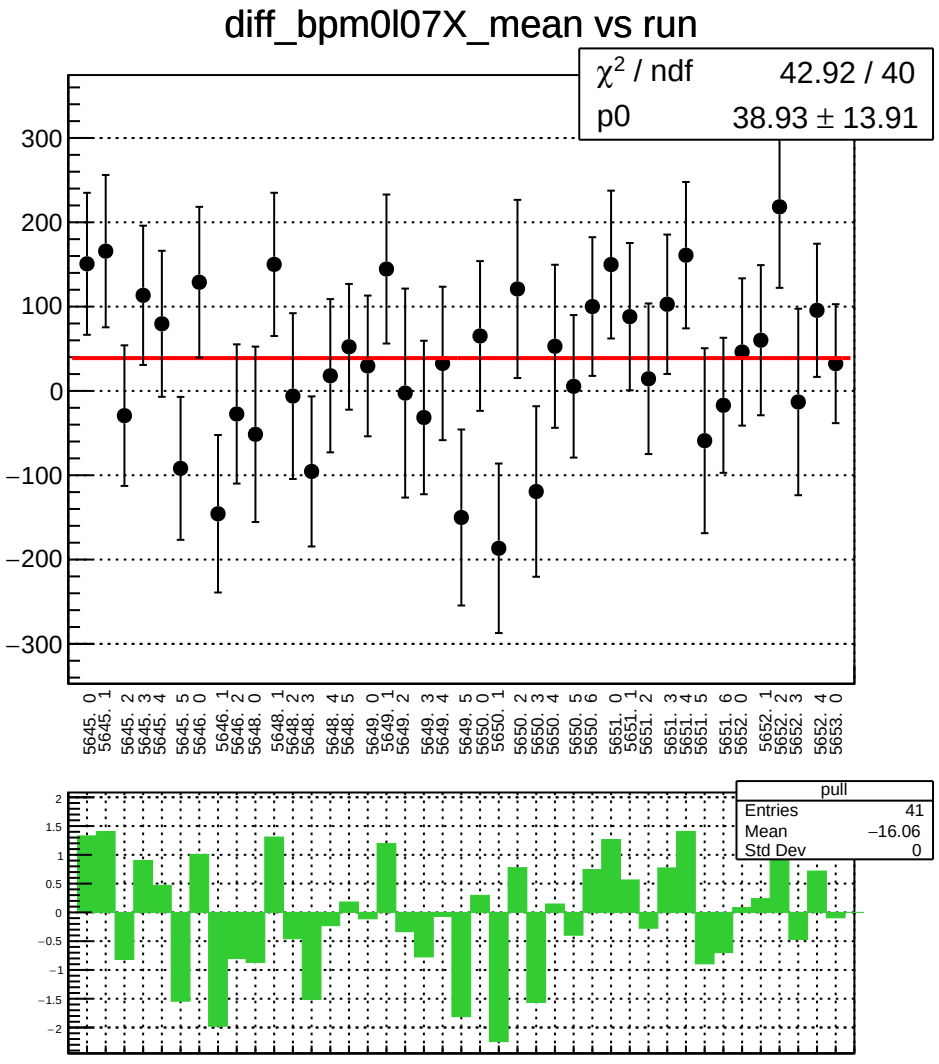

pull1D
Entries 41
Mean −0.03269
Std Dev 1.056

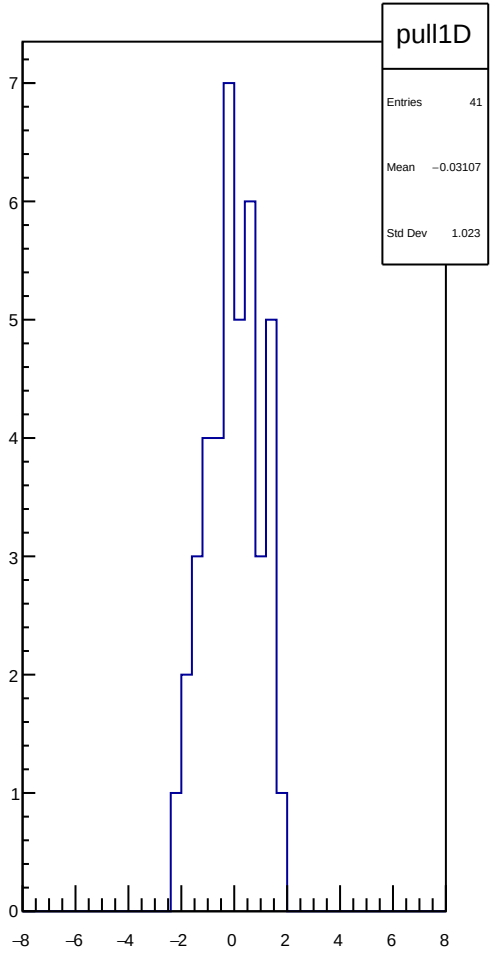

diff_bpm0l06X_rms vs run
χ² / ndf 5840 / 40
p0 5583 ± 6.304
7500
7000
6500
6000
5500
5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

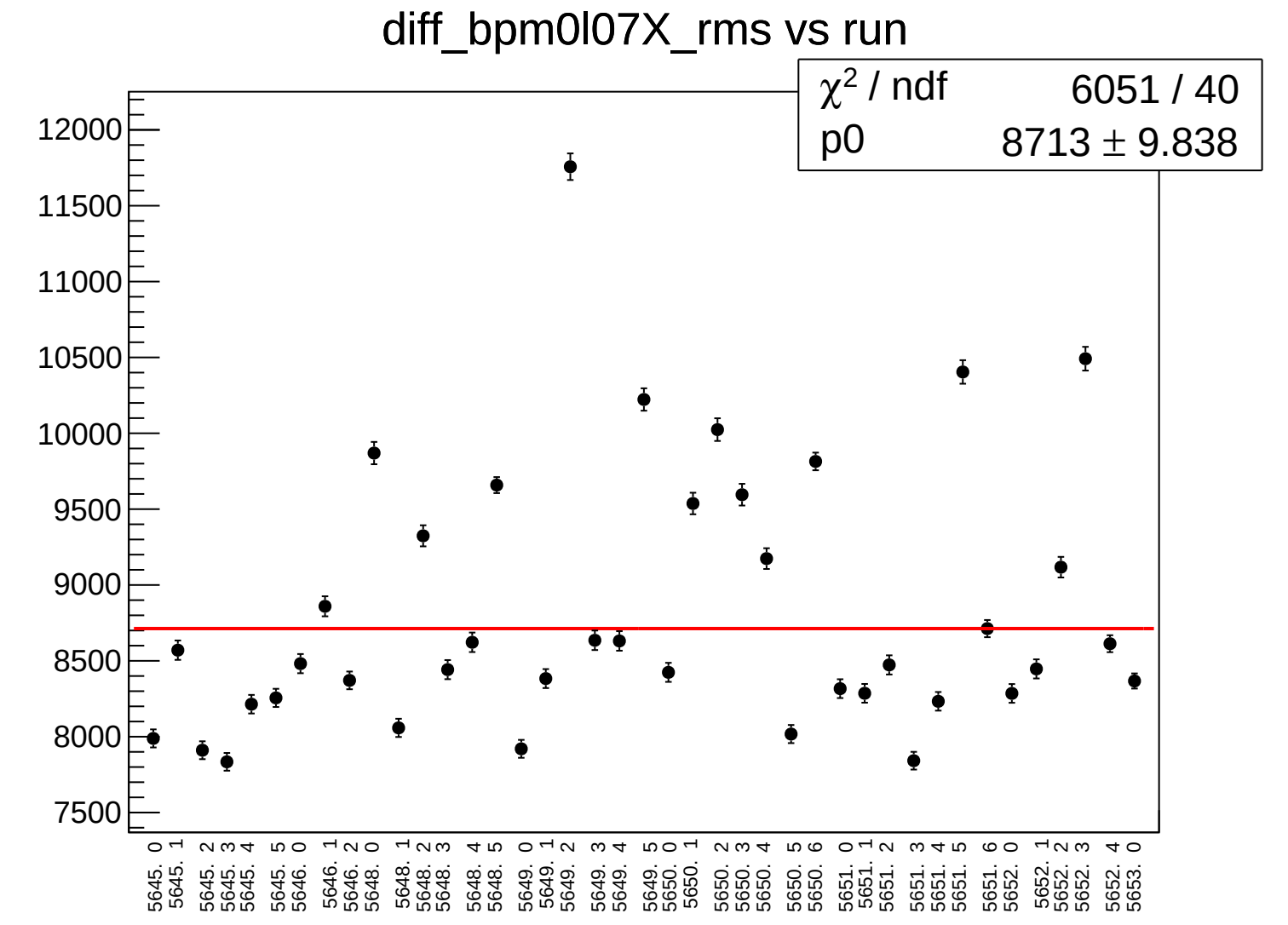

diff_bpm0l06Y_mean vs run
χ² / ndf 39.43 / 40
p0 −0.8904 ± 2.116
pull
Entries 41
Mean −9.743
Std Dev 24.86

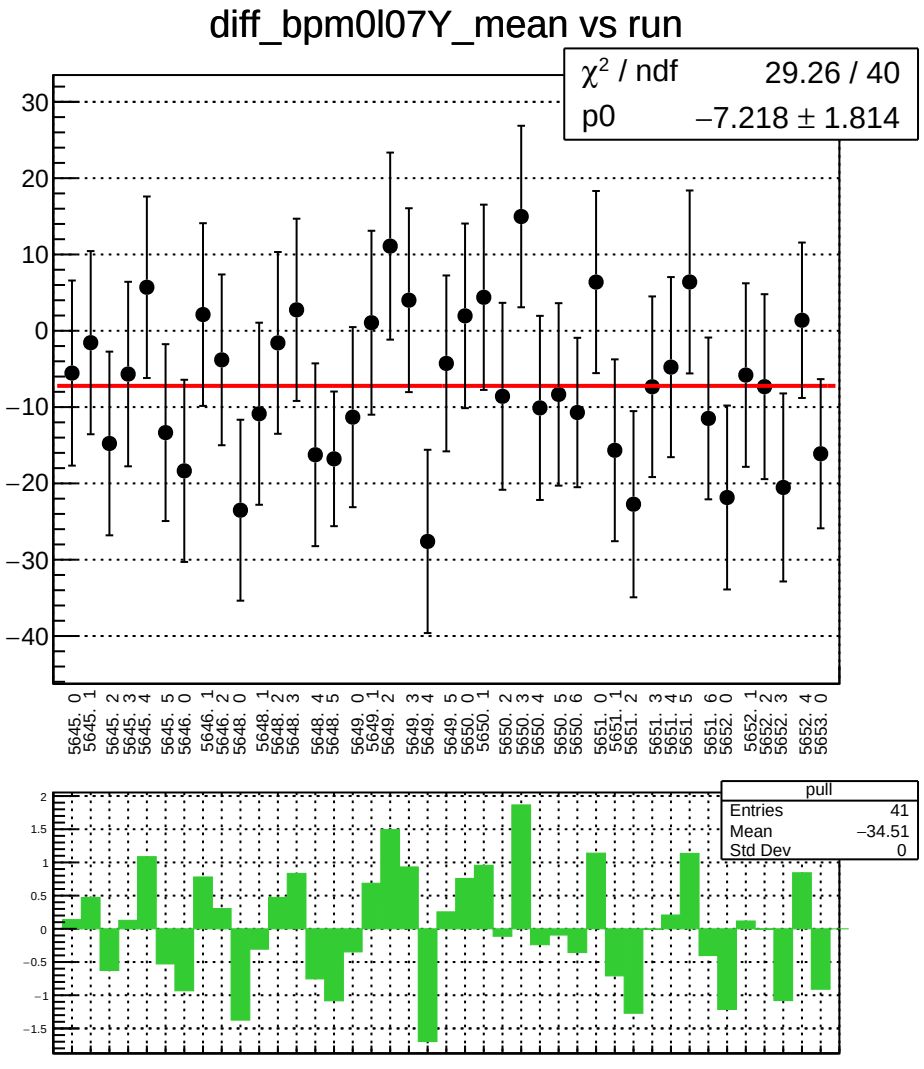

pull1D
Entries 41
Mean −0.00599
Std Dev 0.9806

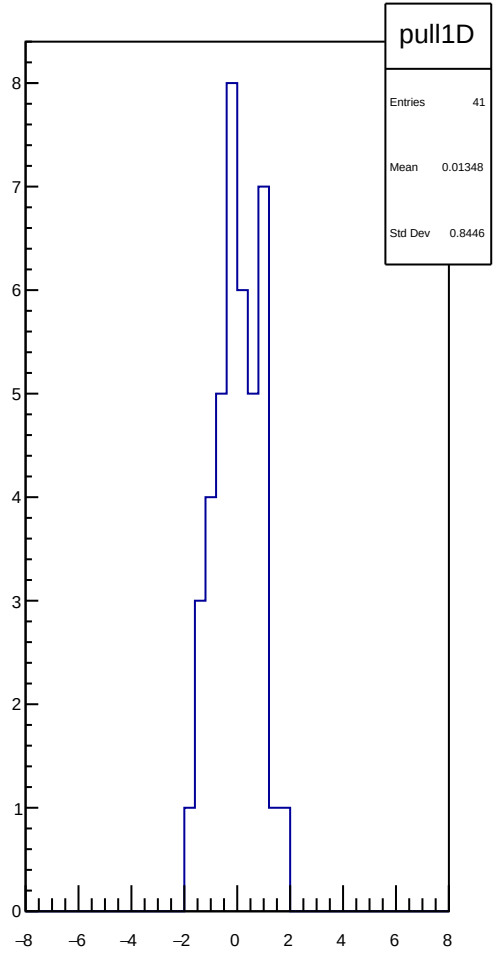

diff_bpm0l06Y_rms vs run
χ² / ndf 59.23 / 40
p0 1330 ± 1.497
1370
1360
1350
1340
1330
1320
1310
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

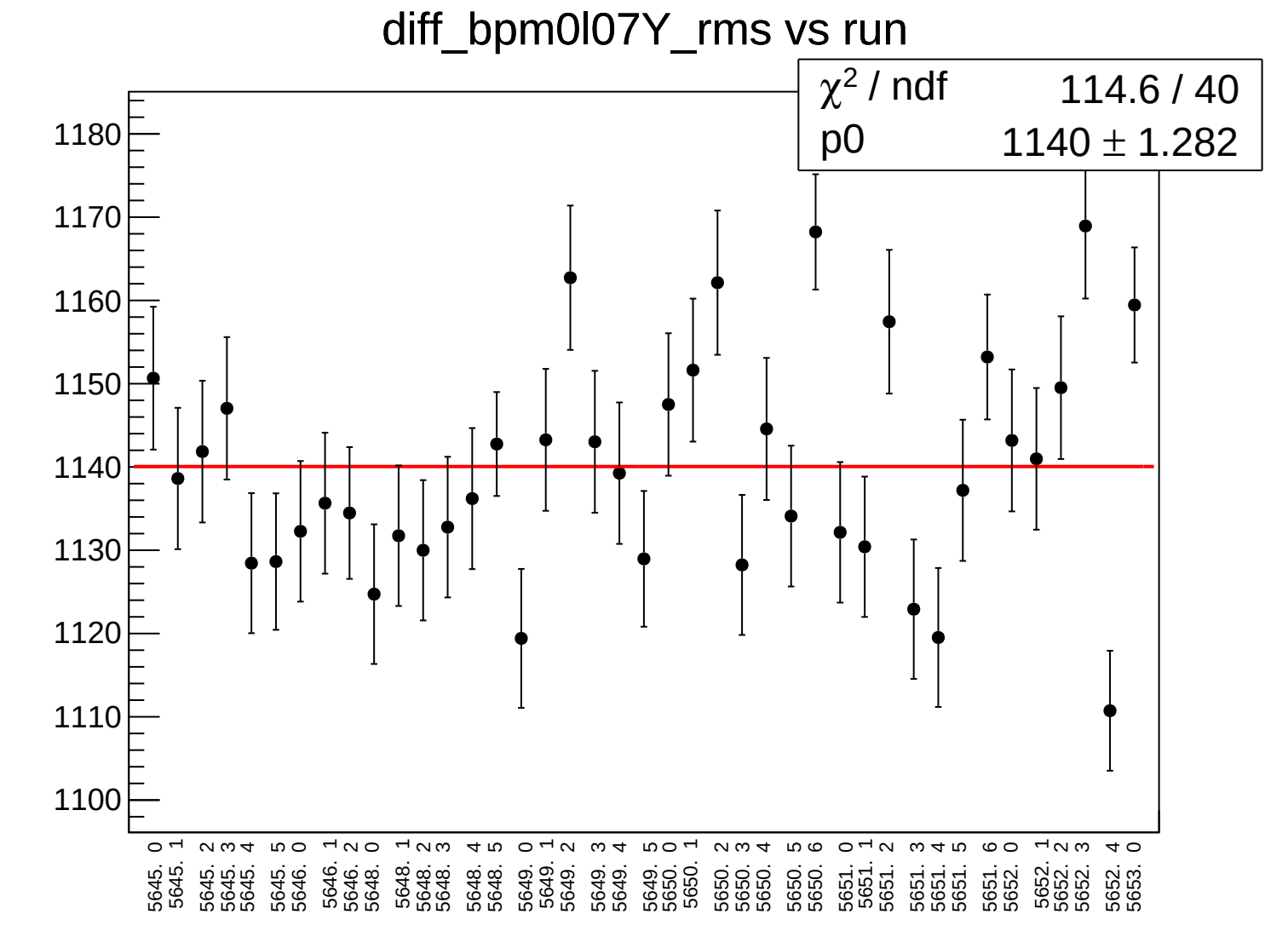

diff_bpm0l07X_mean vs run
χ² / ndf 42.92 / 40
p0 38.93 ± 13.91
300
200
100
0
−100
−200
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −16.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

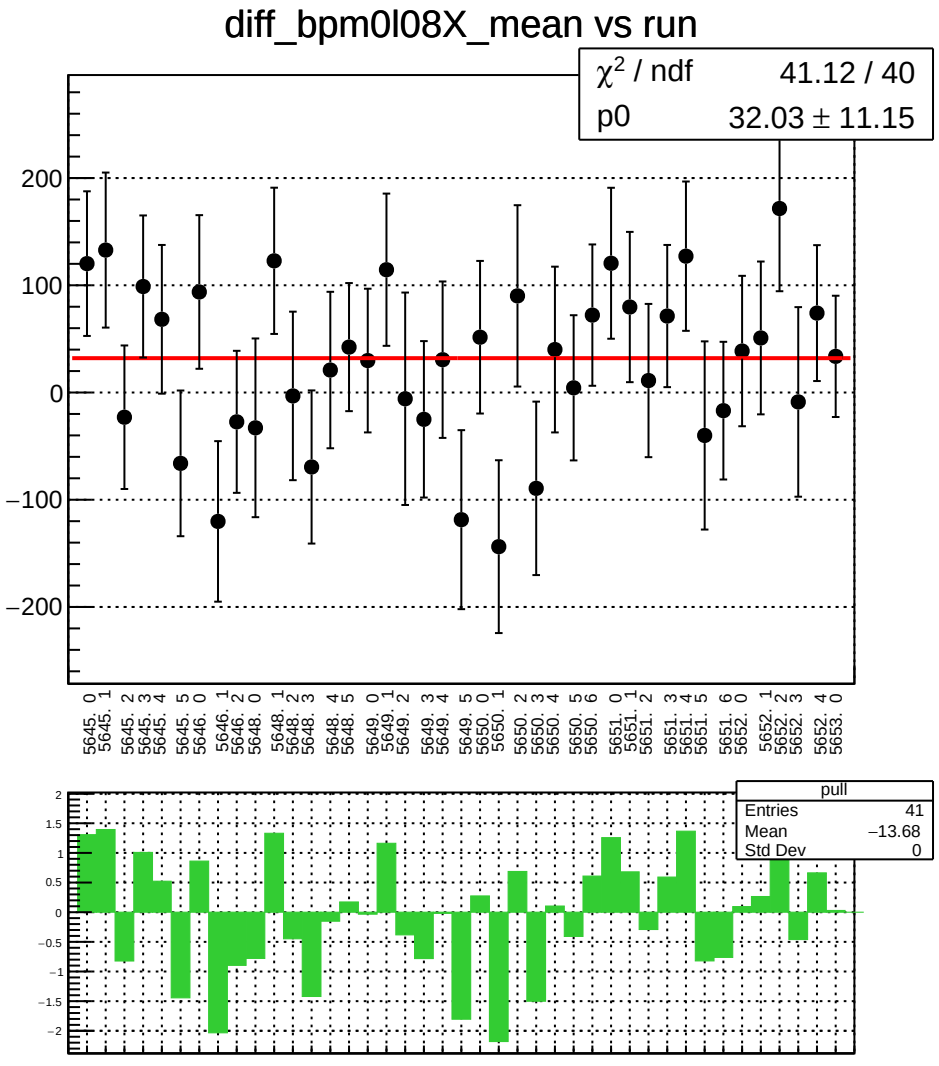

pull1D
Entries 41
Mean −0.03107
Std Dev 1.023
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

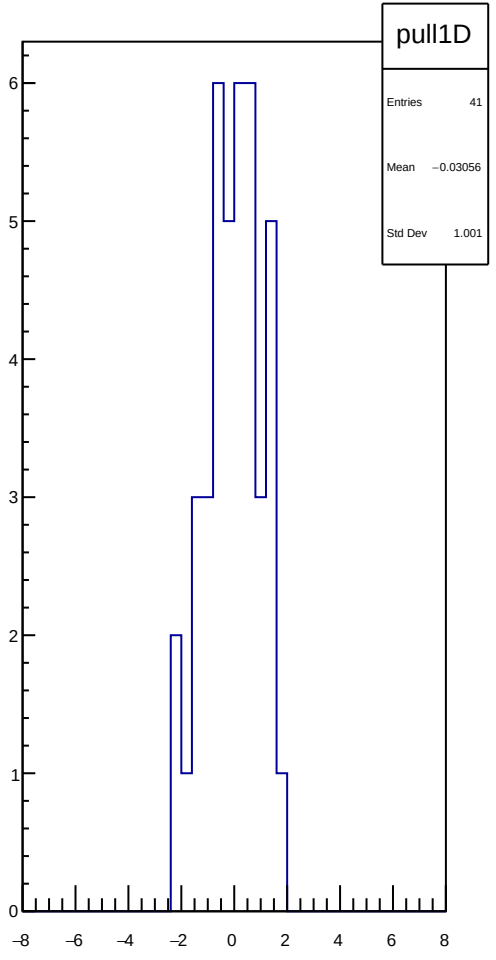

diff_bpm0l07X_rms vs run
χ² / ndf 6051 / 40
p0 8713 ± 9.838
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

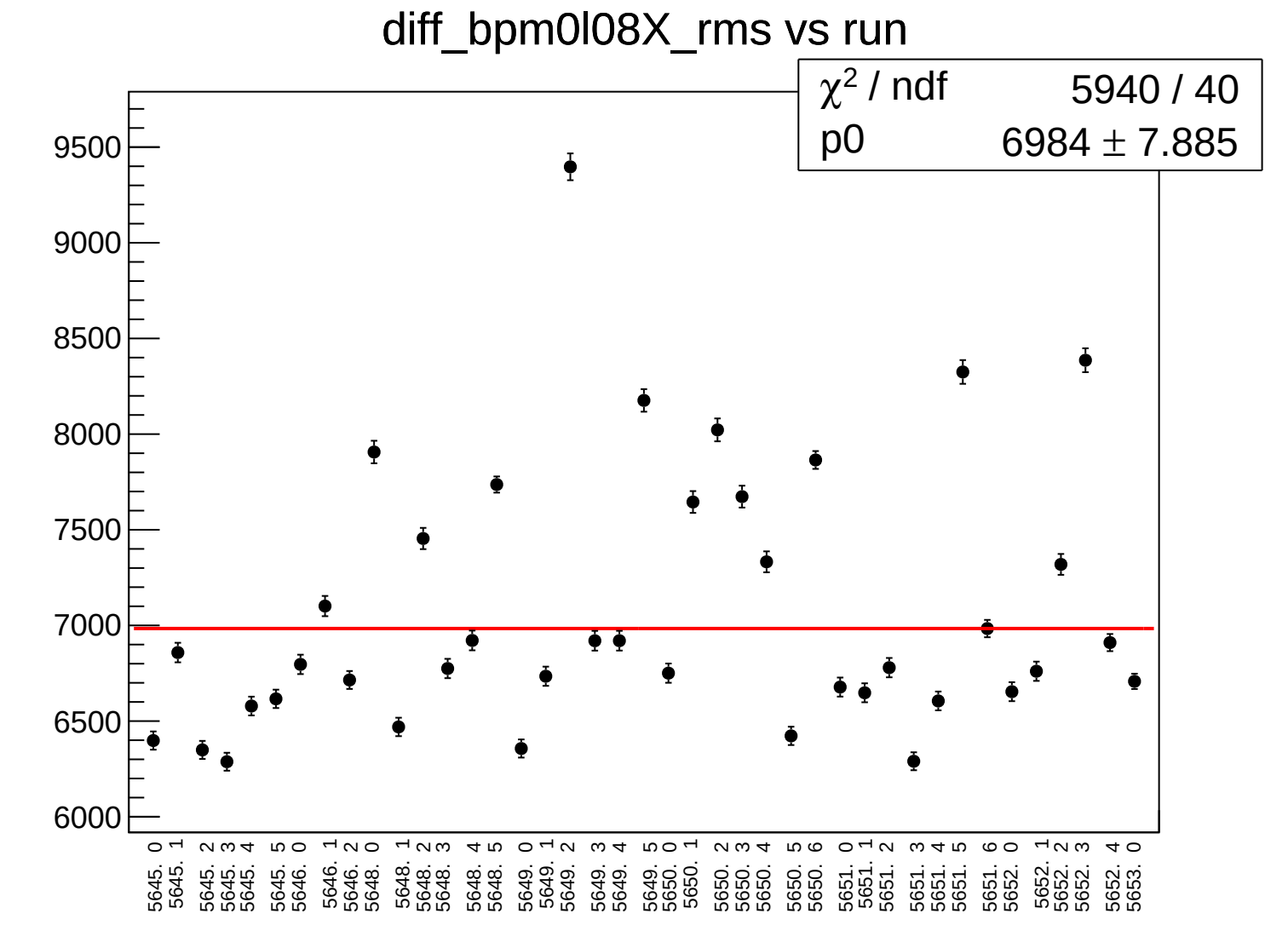

diff_bpm0l07Y_mean vs run
χ² / ndf 29.26 / 40
p0 −7.218 ± 1.814
pull
Entries 41
Mean −34.51
Std Dev 0

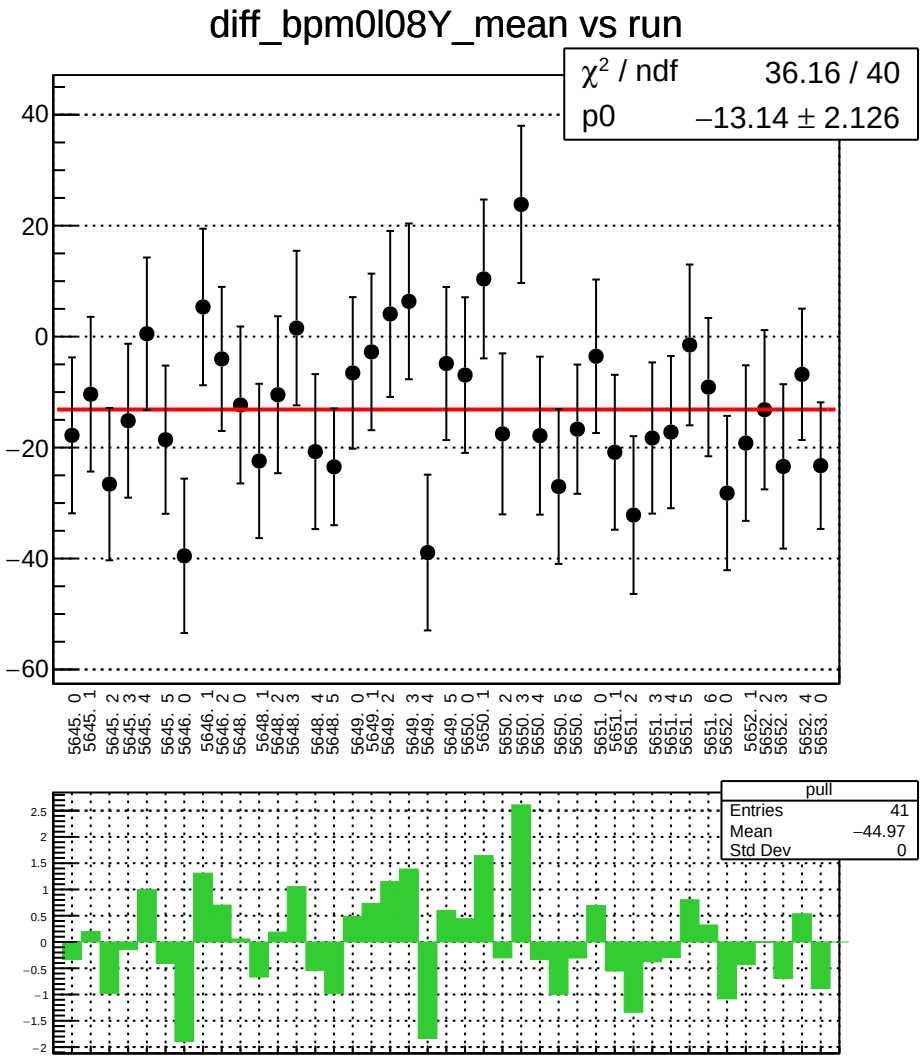

pull1D
Entries 41
Mean 0.01348
Std Dev 0.8446

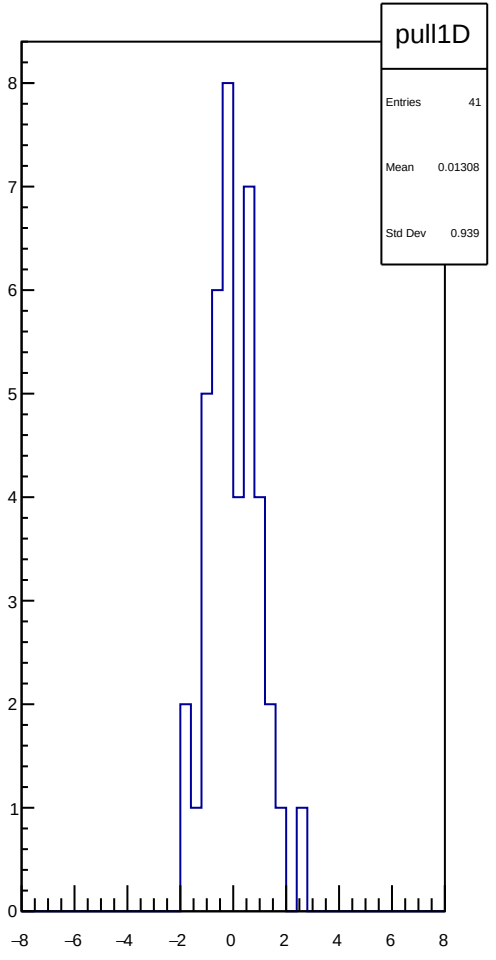

diff_bpm0l07Y_rms vs run
χ² / ndf 114.6 / 40
p0 1140 ± 1.282
1180
1170
1160
1150
1140
1130
1120
1110
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

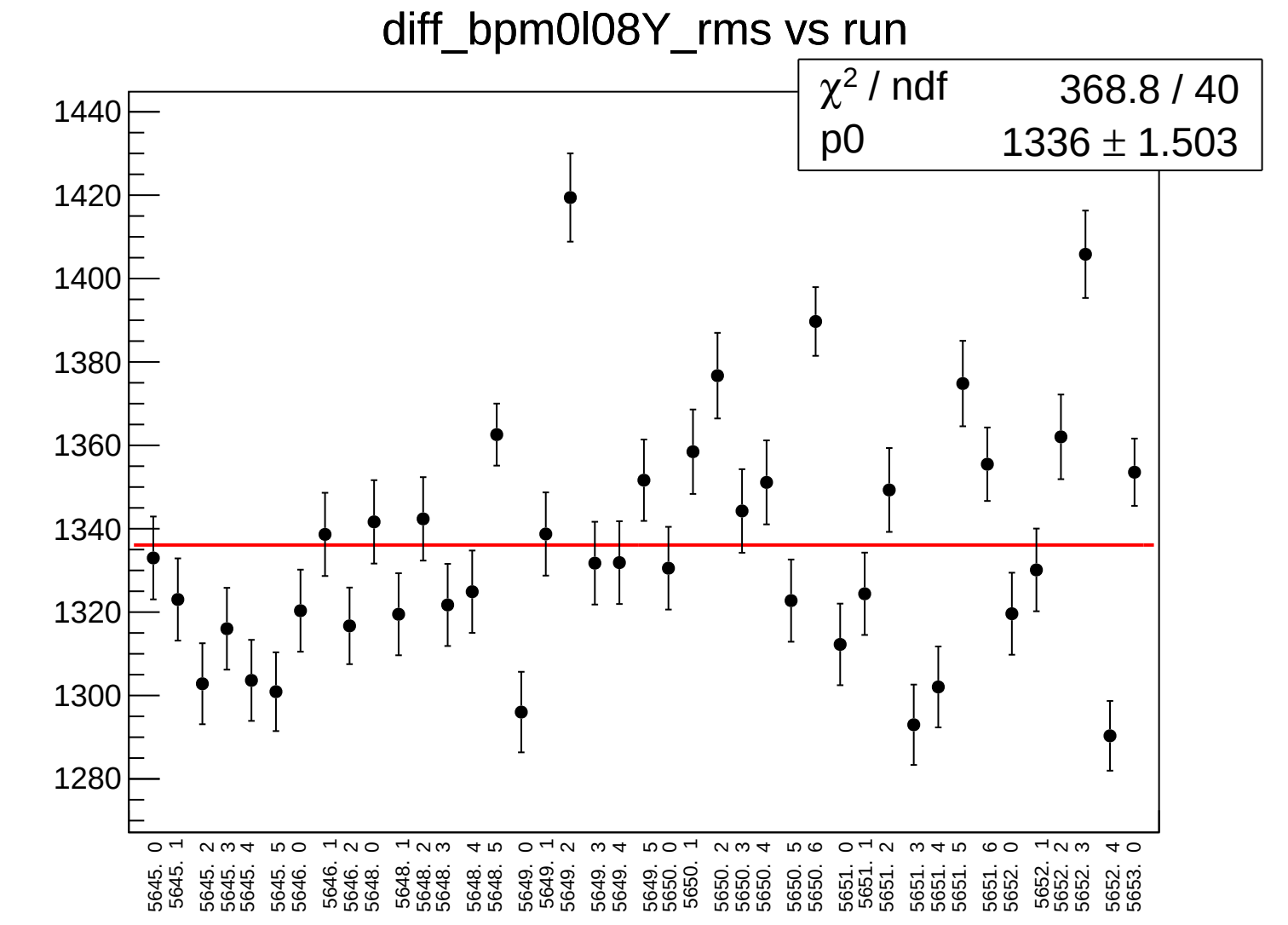

diff_bpm0l08X_mean vs run
χ² / ndf 41.12 / 40
p0 32.03 ± 11.15
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −13.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

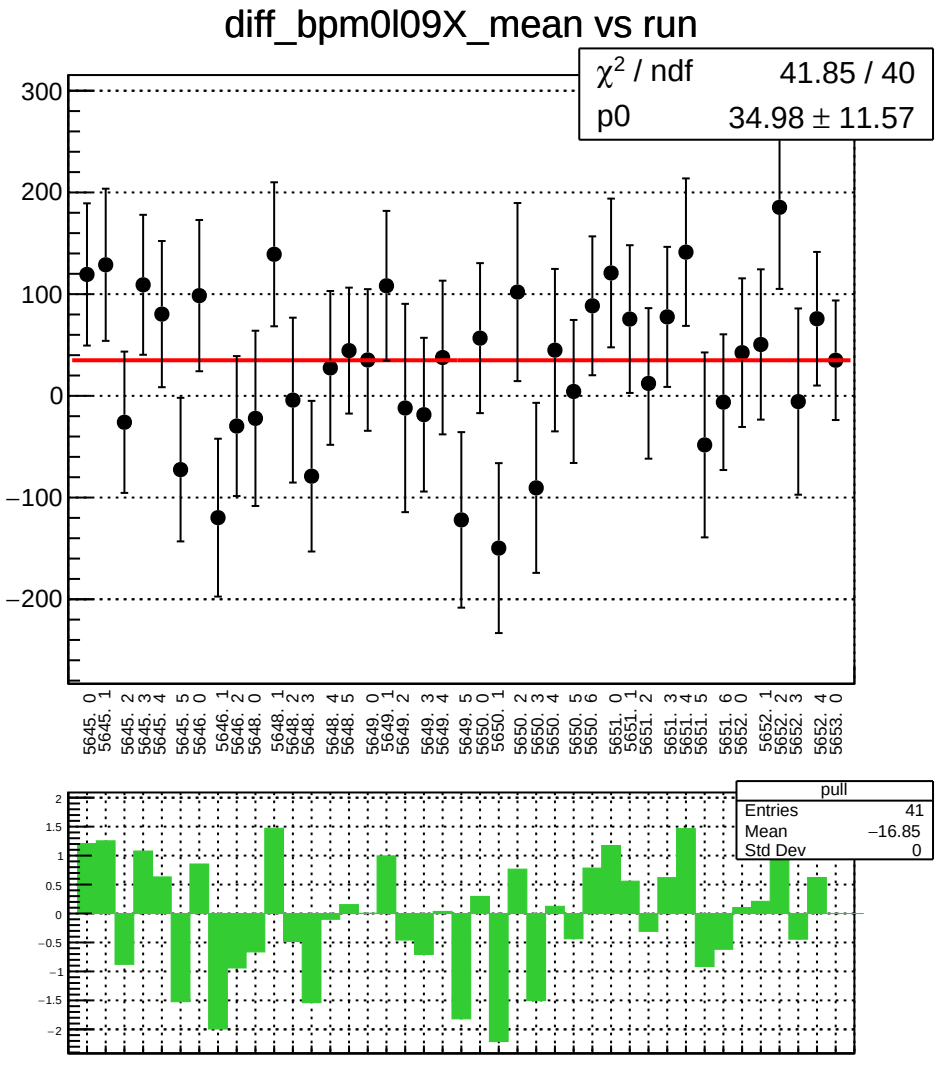

pull1D
Entries 41
Mean −0.03056
Std Dev 1.001
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

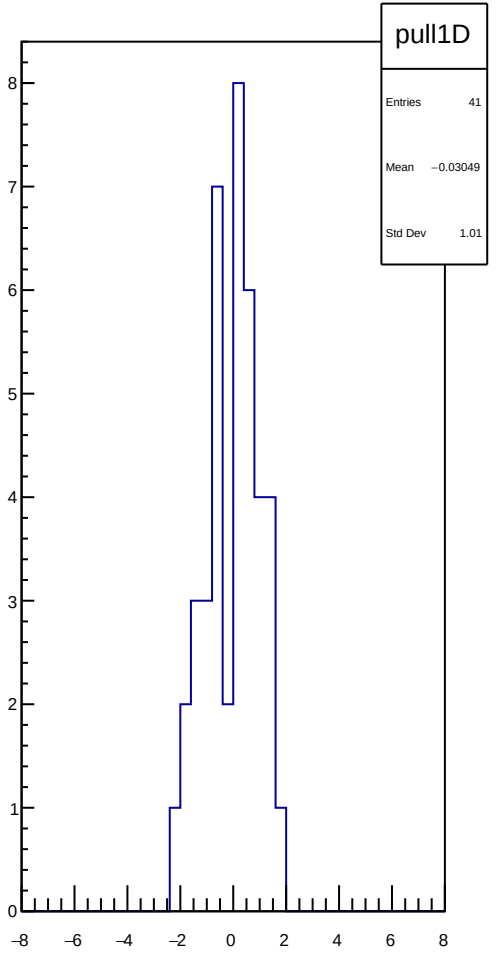

diff_bpm0l08X_rms vs run
χ² / ndf 5940 / 40
p0 6984 ± 7.885
9500
9000
8500
8000
7500
7000
6500
6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

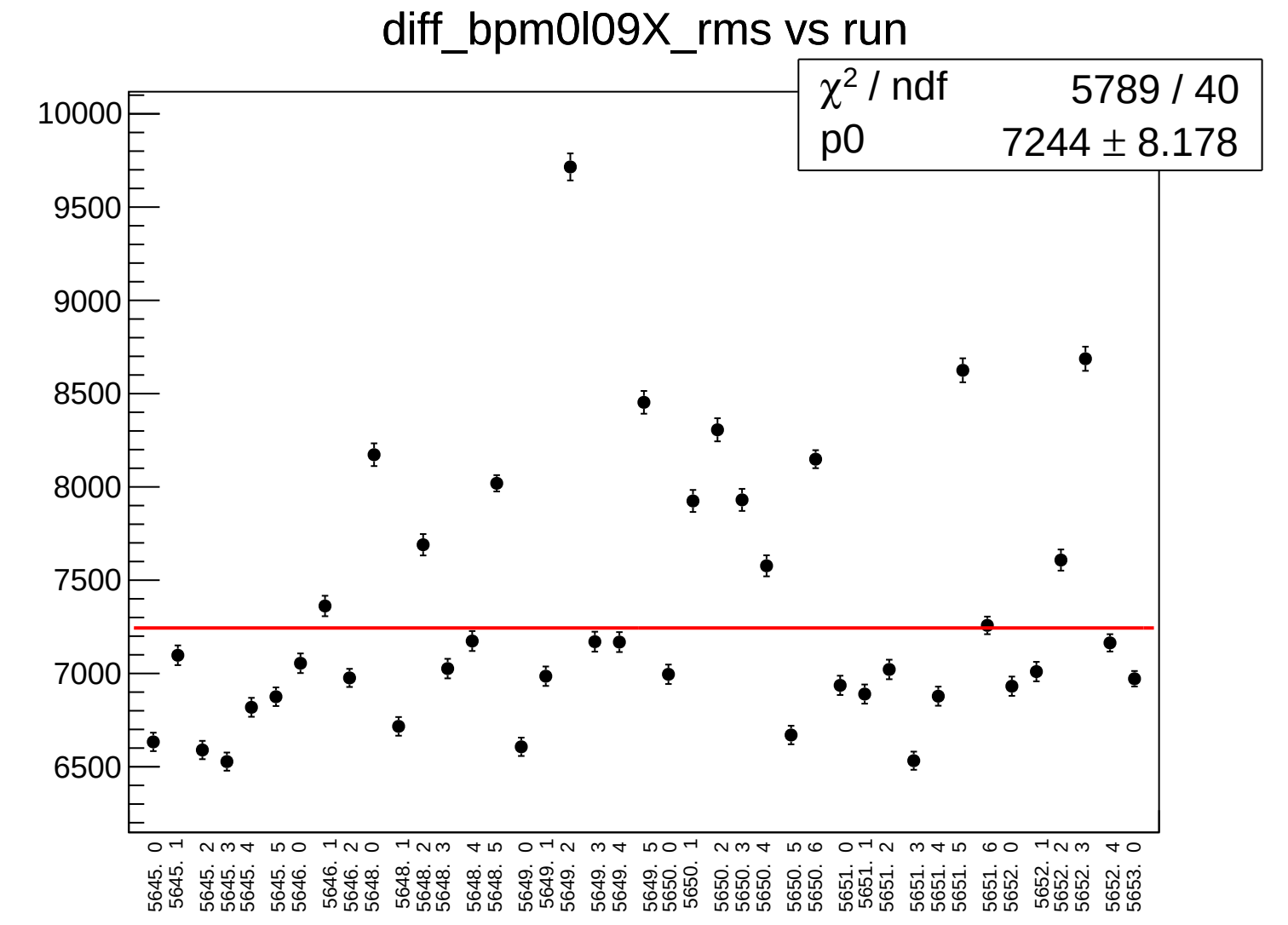

diff_bpm0l08Y_mean vs run
χ² / ndf 36.16 / 40
p0 −13.14 ± 2.126
pull
Entries 41
Mean −44.97
Std Dev 0

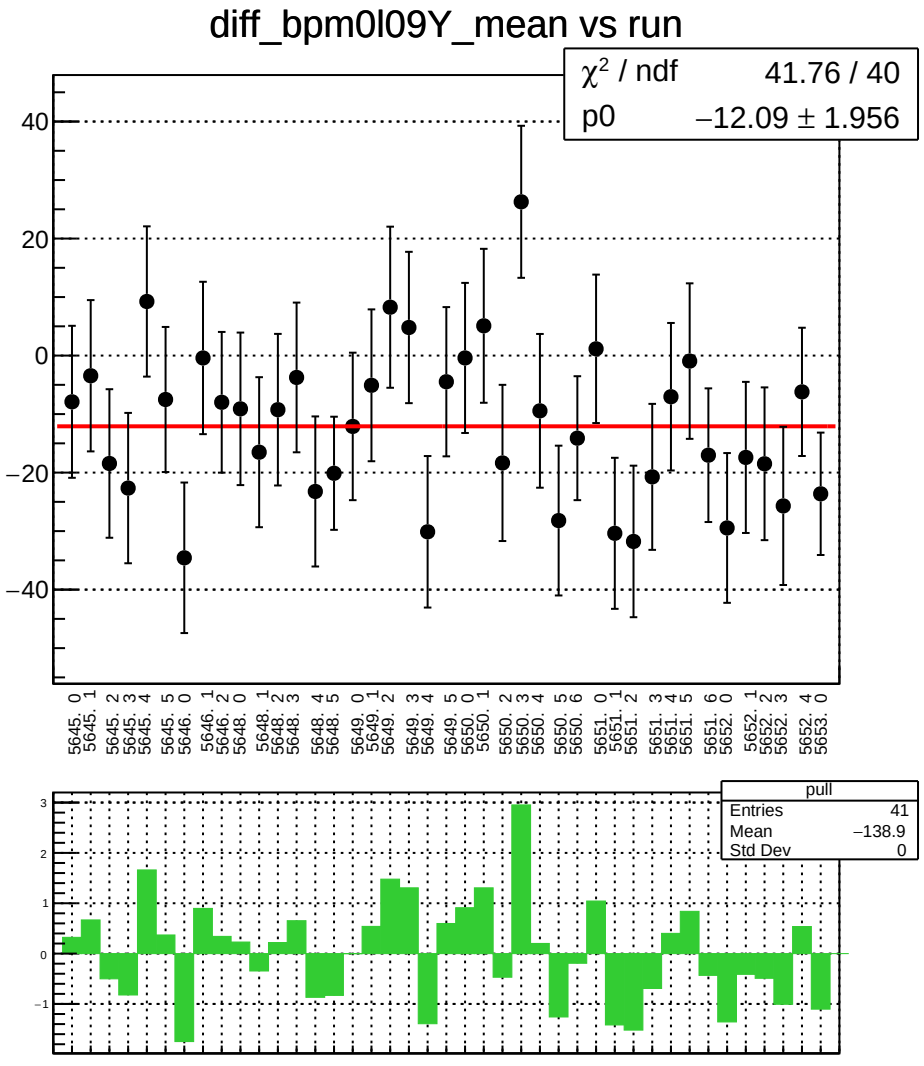

pull1D
Entries 41
Mean 0.01308
Std Dev 0.939

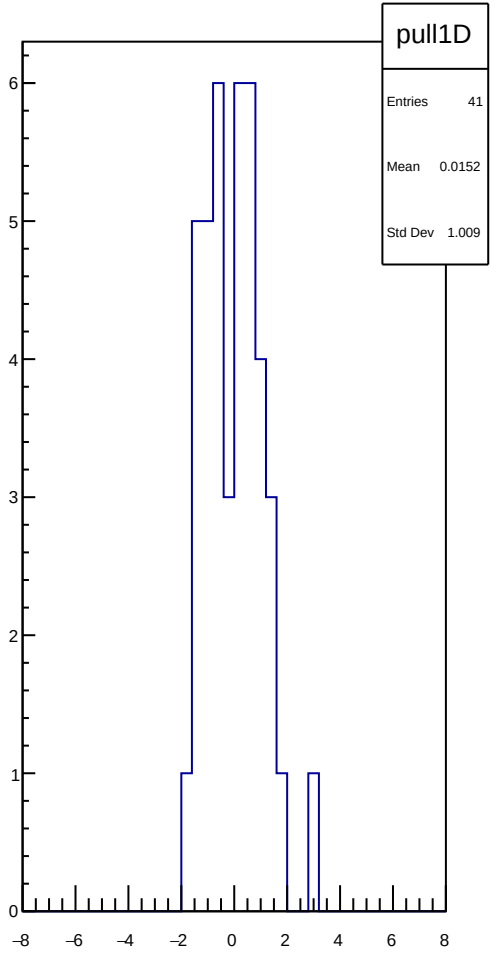

diff_bpm0l08Y_rms vs run
χ² / ndf 368.8 / 40
p0 1336 ± 1.503
1440
1420
1400
1380
1360
1340
1320
1300
1280
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

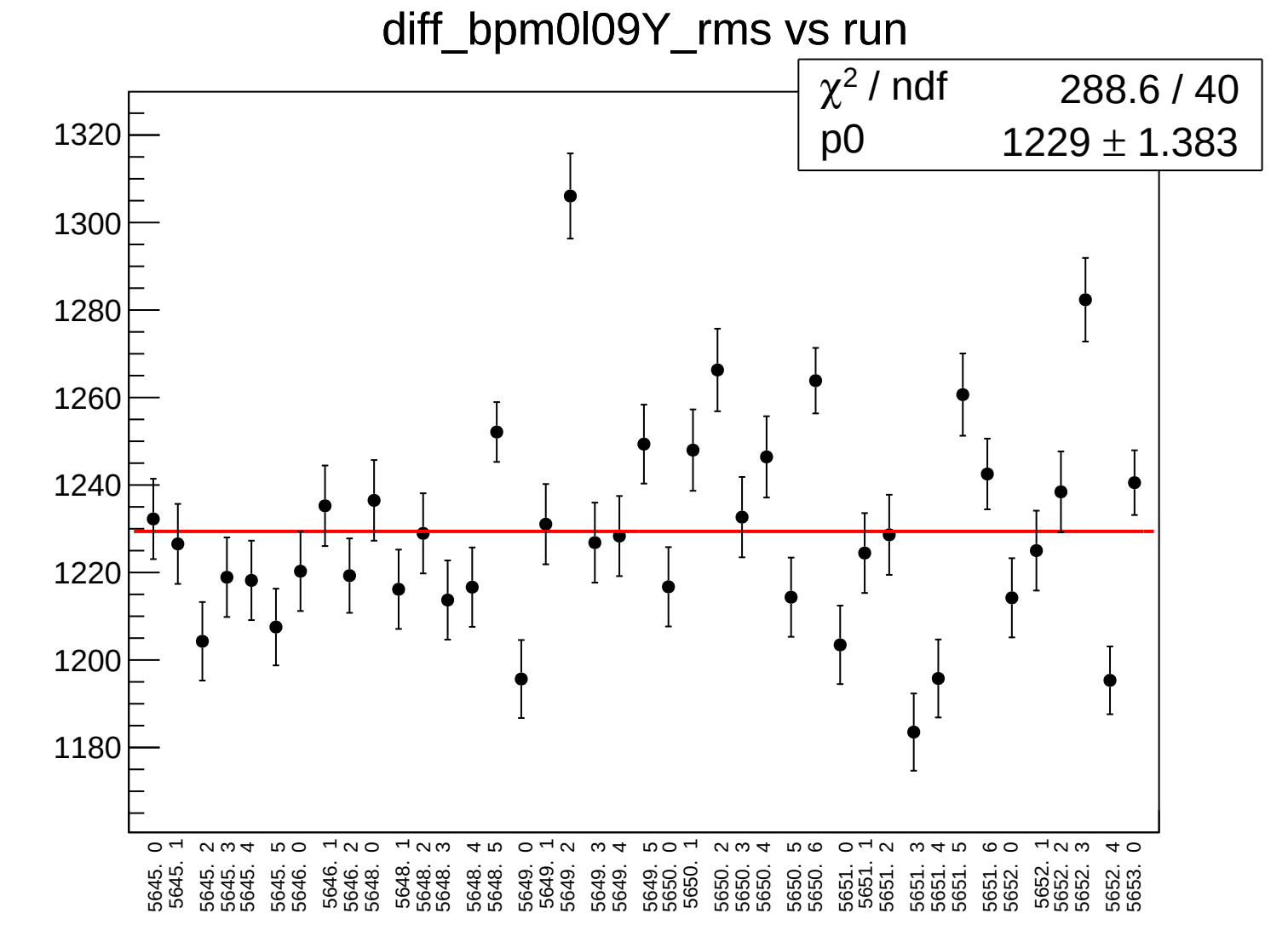

diff_bpm0l09X_mean vs run
χ² / ndf 41.85 / 40
p0 34.98 ± 11.57
300
200
100
0
−100
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −16.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

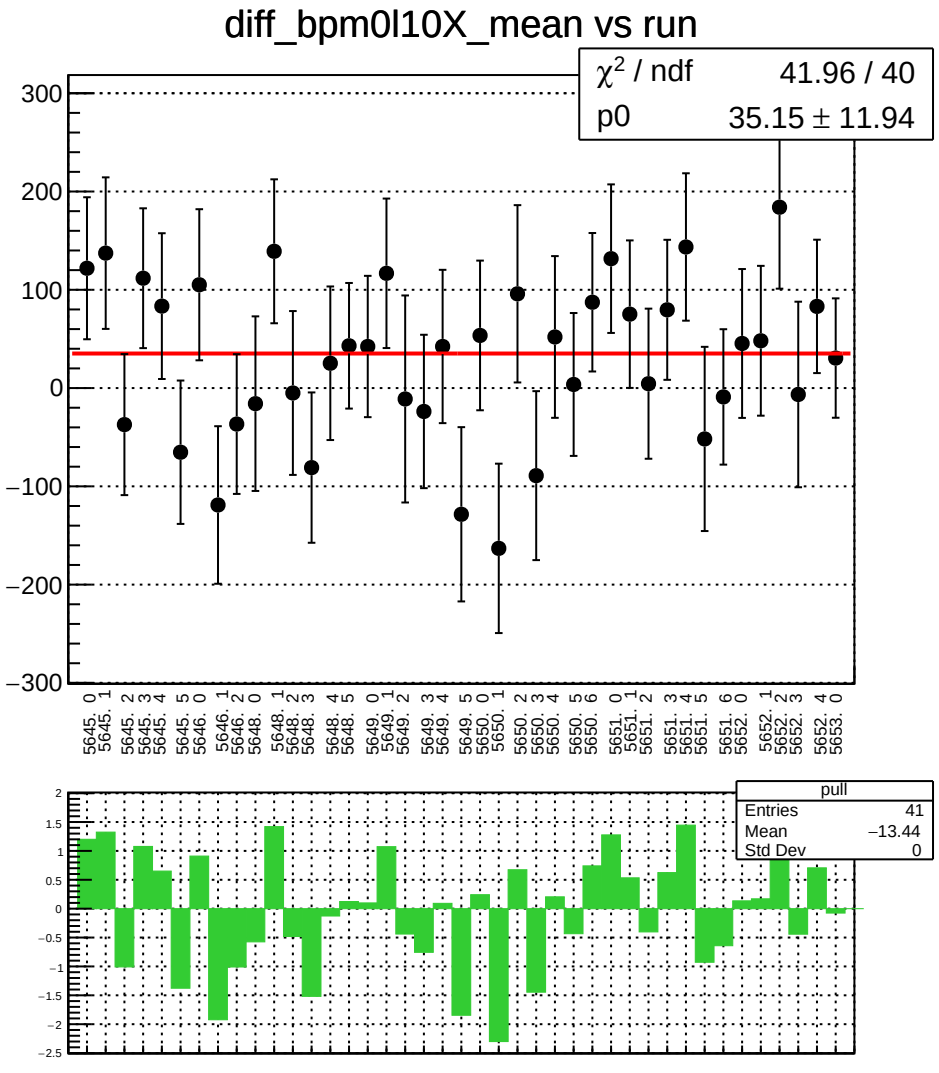

pull1D
Entries 41
Mean −0.03049
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

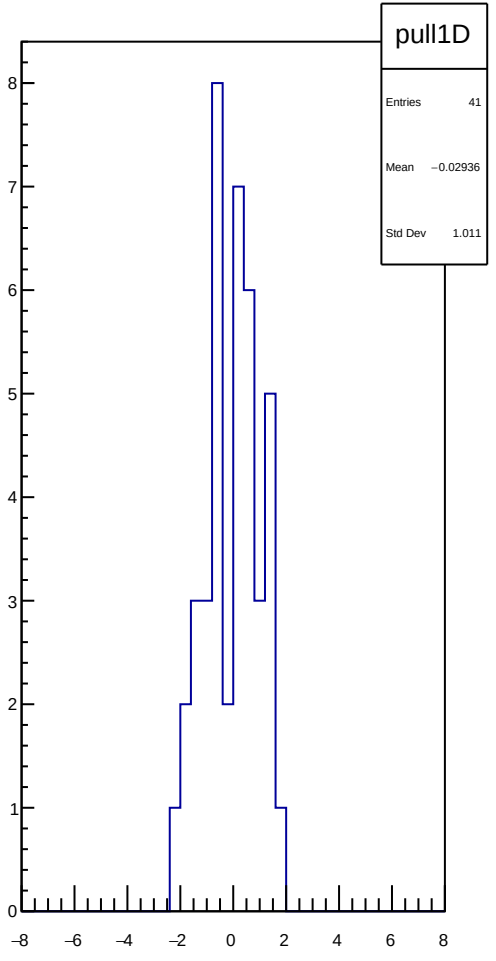

diff_bpm0l09X_rms vs run
χ² / ndf 5789 / 40
p0 7244 ± 8.178
10000
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

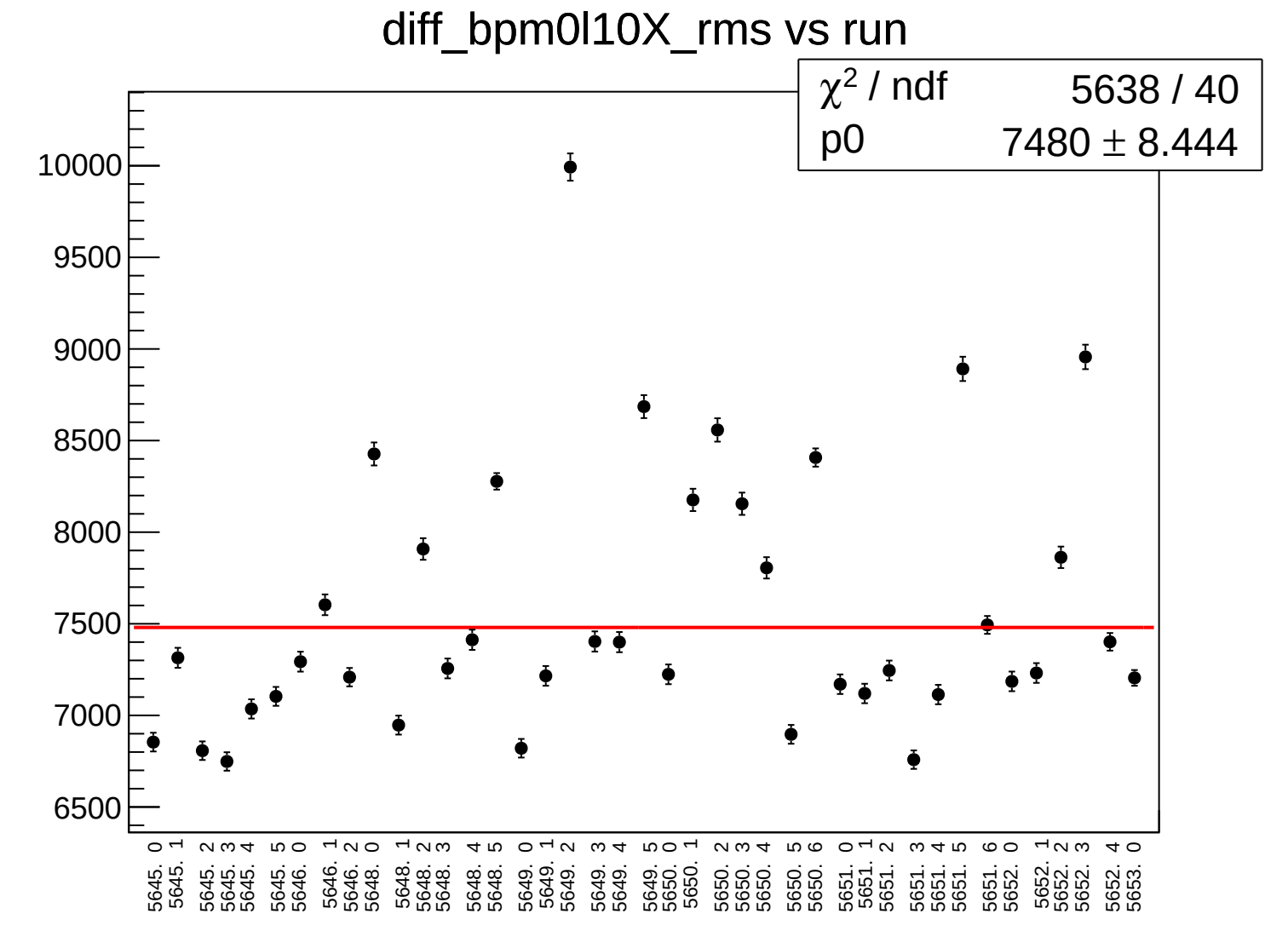

diff_bpm0l09Y_mean vs run
χ² / ndf 41.76 / 40
p0 −12.09 ± 1.956
pull
Entries 41
Mean −138.9
Std Dev 0

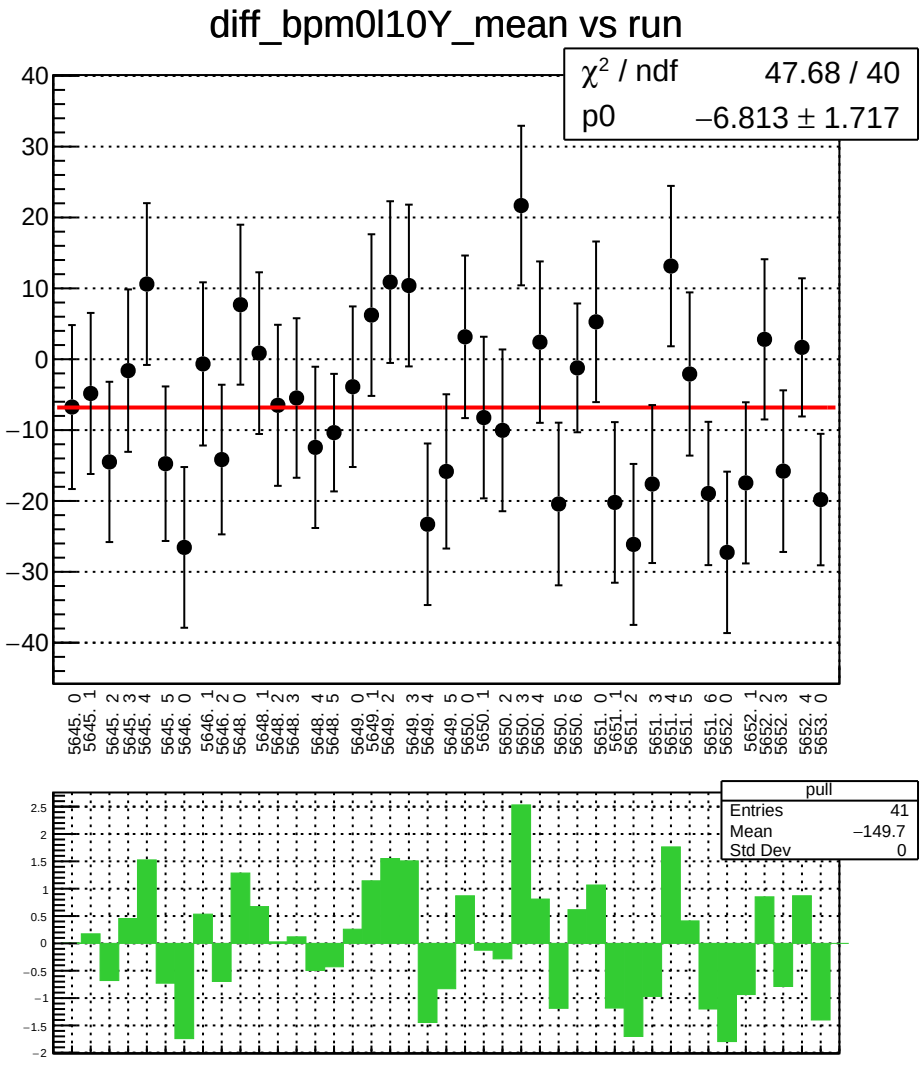

pull1D
Entries 41
Mean 0.0152
Std Dev 1.009

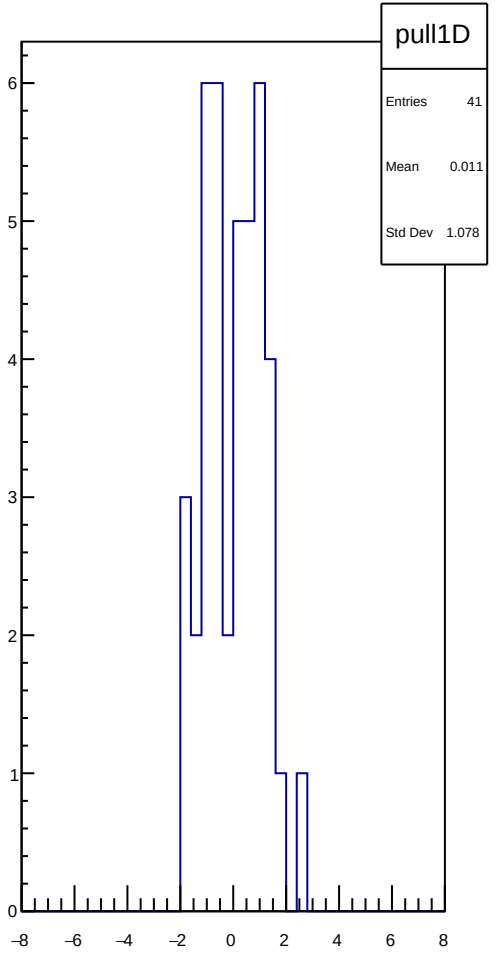

diff_bpm0l09Y_rms vs run
χ² / ndf 288.6 / 40
p0 1229 ± 1.383
1320
1300
1280
1260
1240
1220
1200
1180
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

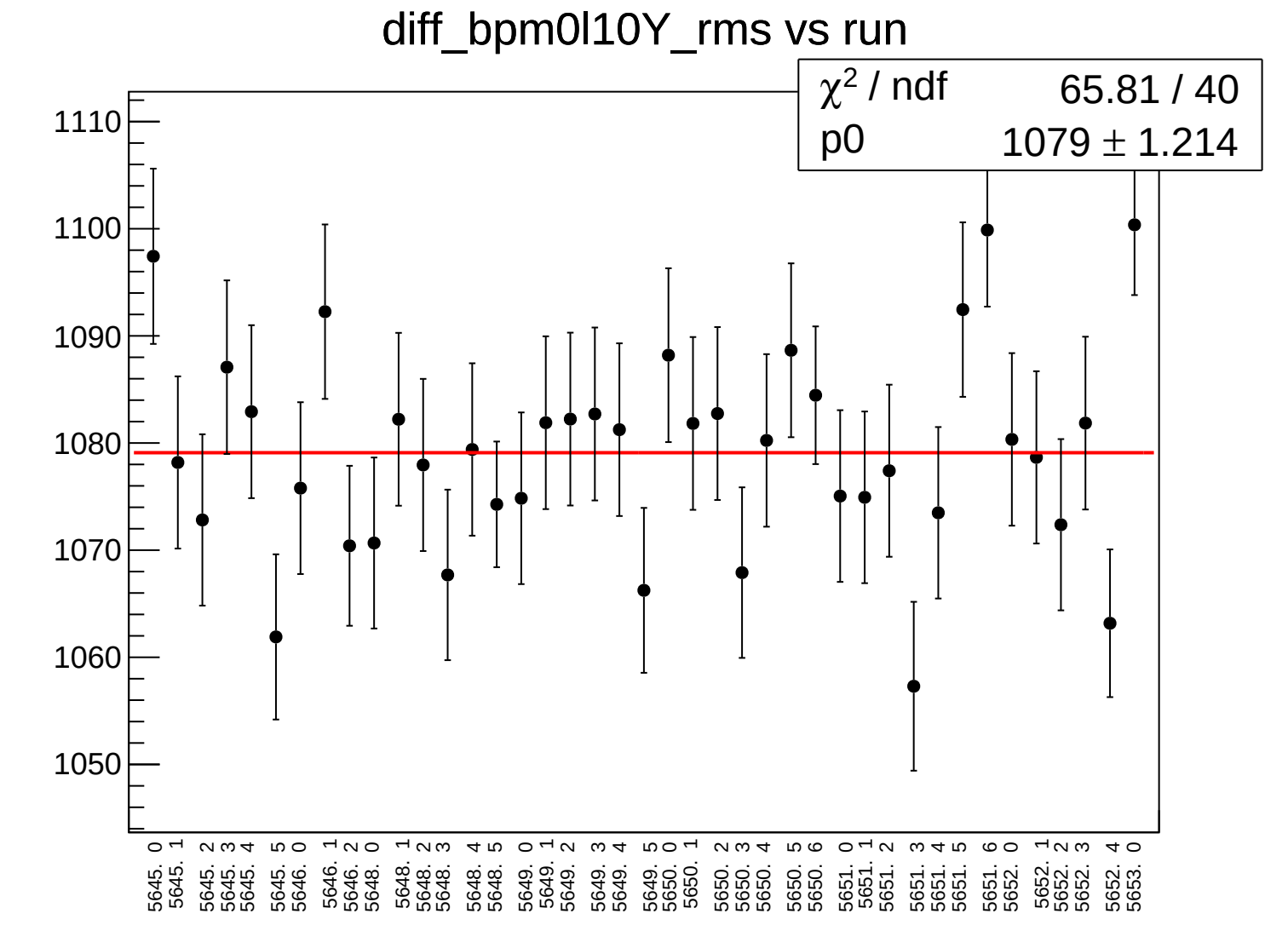

diff_bpm0l10X_mean vs run
χ^2 / ndf 41.96 / 40
p0 35.15 ± 11.94
pull
Entries 41
Mean −13.44
Std Dev 0

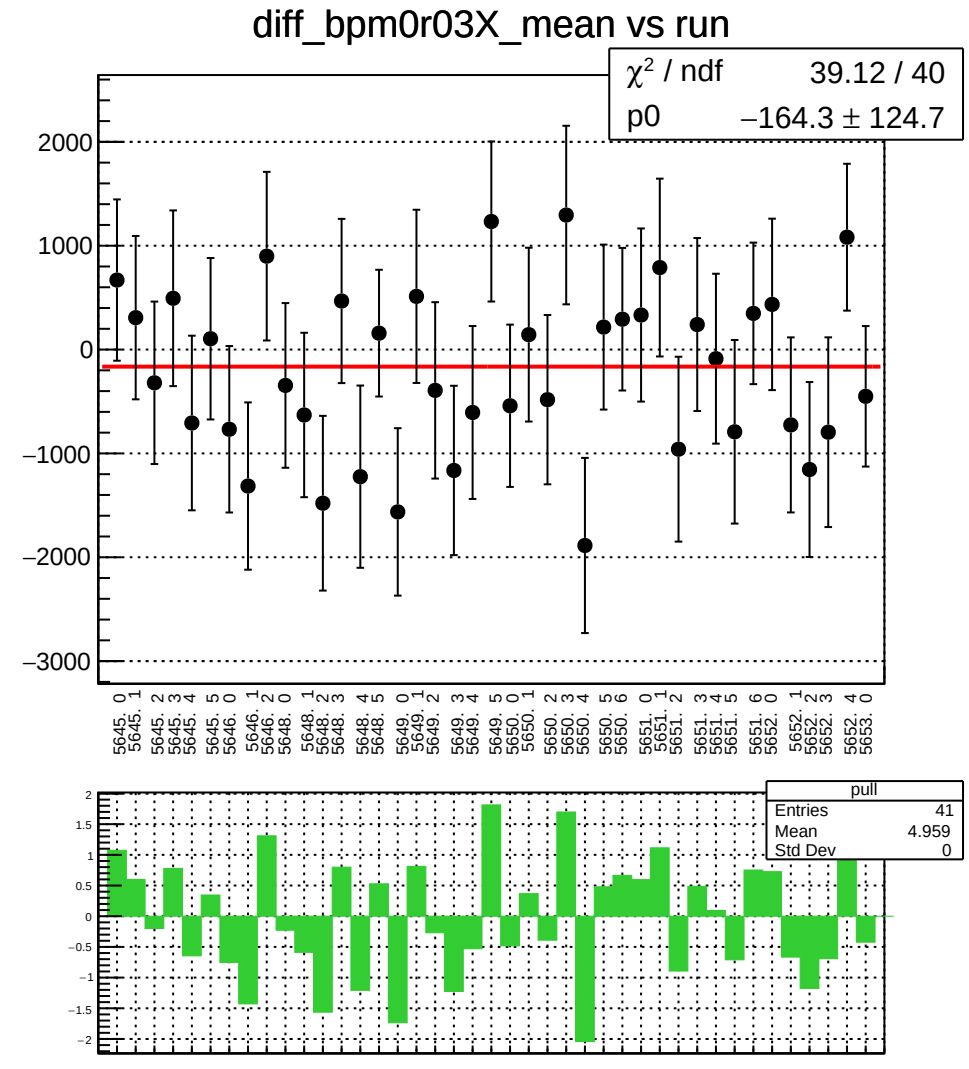

pull1D
Entries 41
Mean −0.02936
Std Dev 1.011

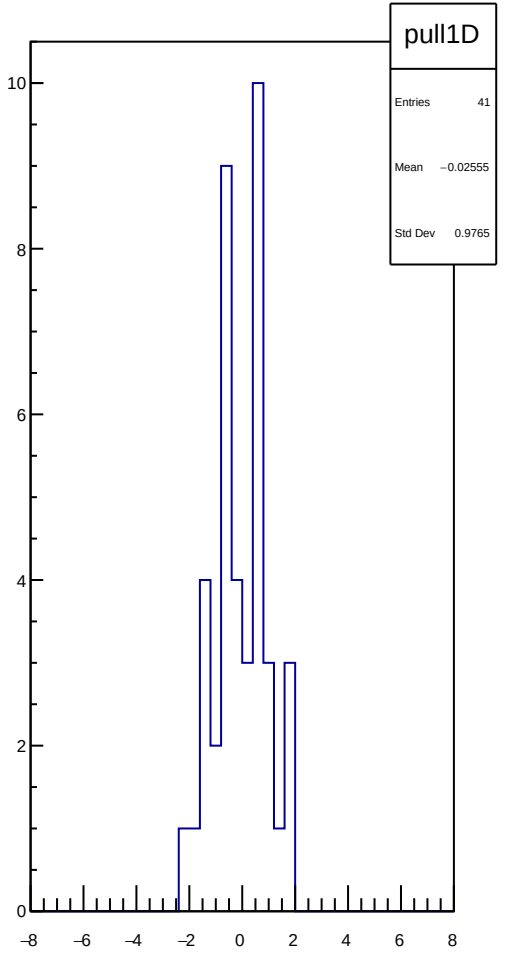

diff_bpm0l10X_rms vs run
χ² / ndf 5638 / 40
p0 7480 ± 8.444
10000
9500
9000
8500
8000
7500
7000
6500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

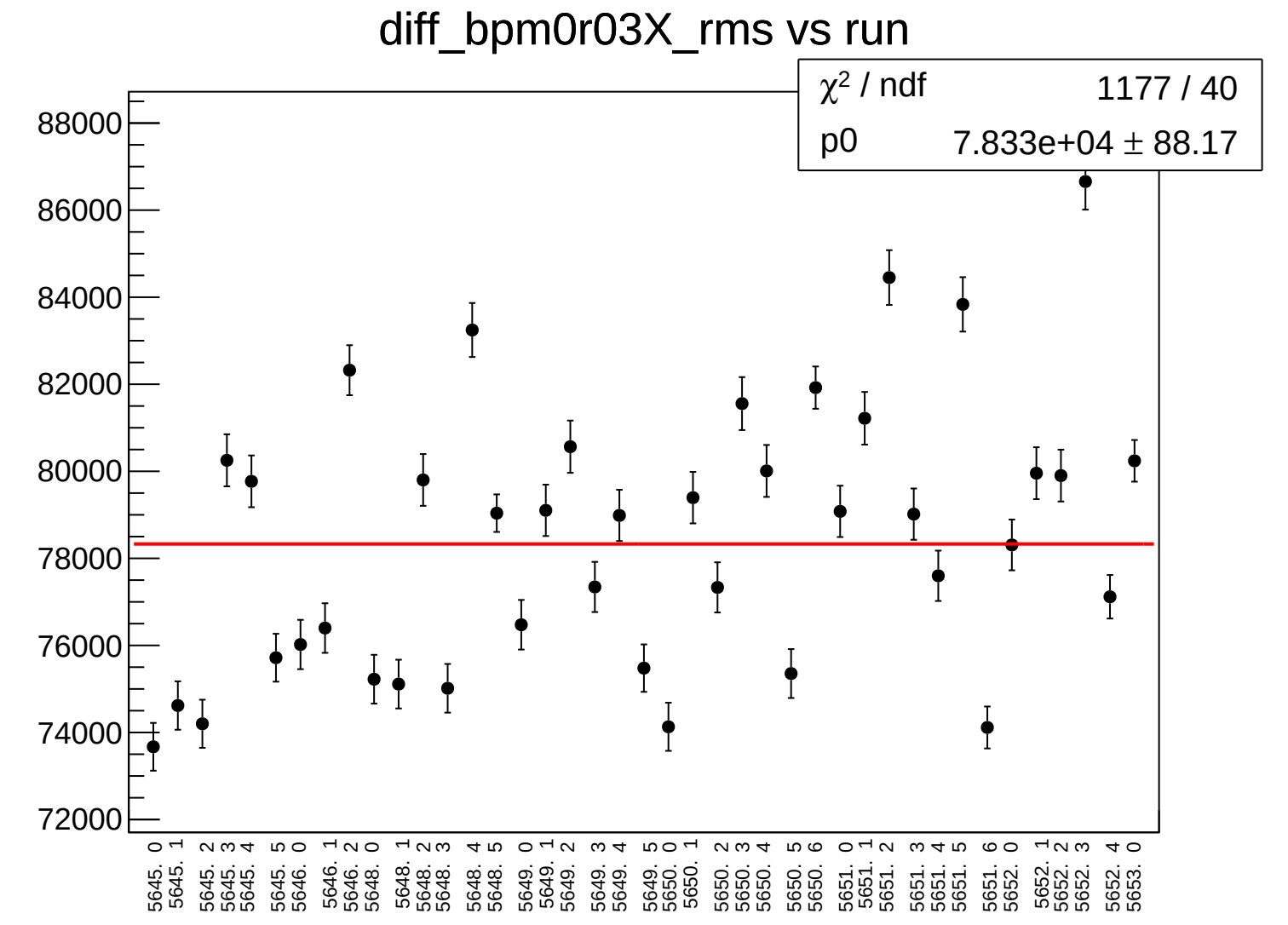

diff_bpm0l10Y_mean vs run
χ² / ndf 47.68 / 40
p0 −6.813 ± 1.717
pull
Entries 41
Mean −149.7
Std Dev 0

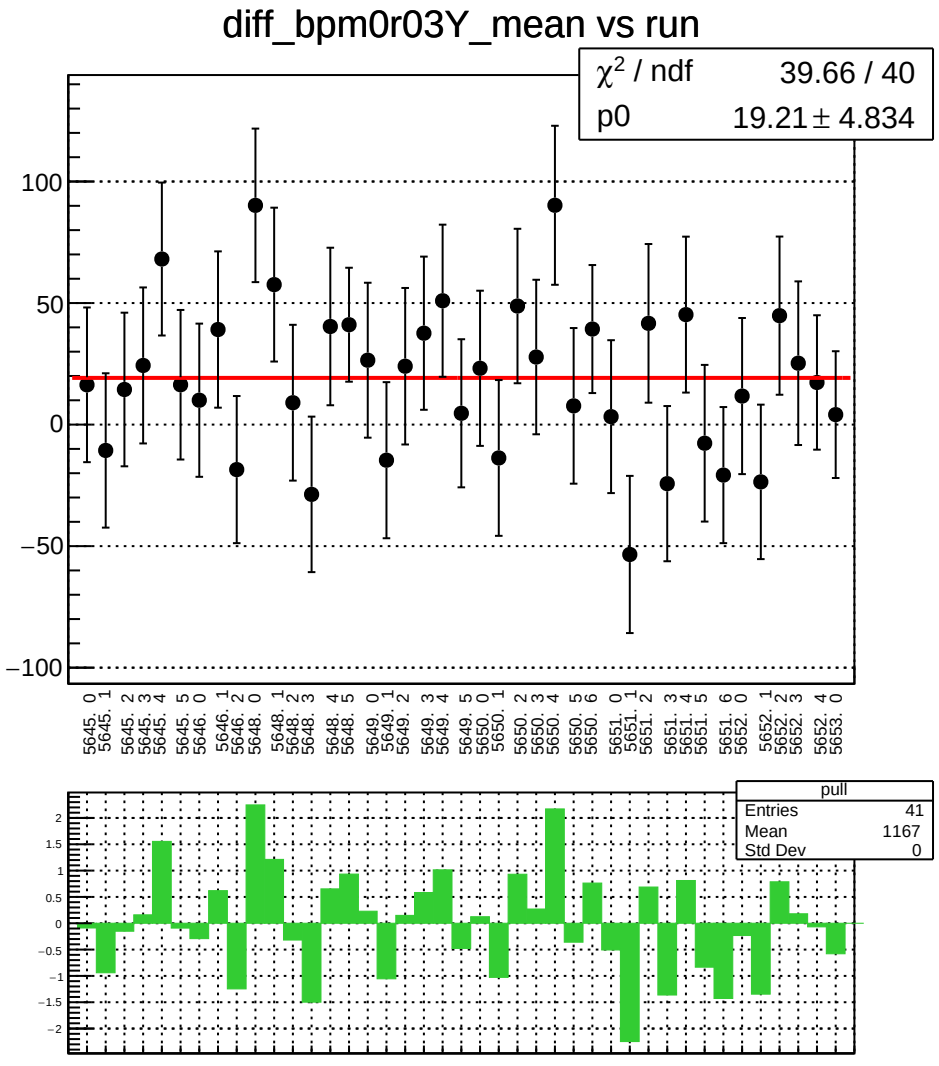

pull1D
Entries 41
Mean 0.011
Std Dev 1.078

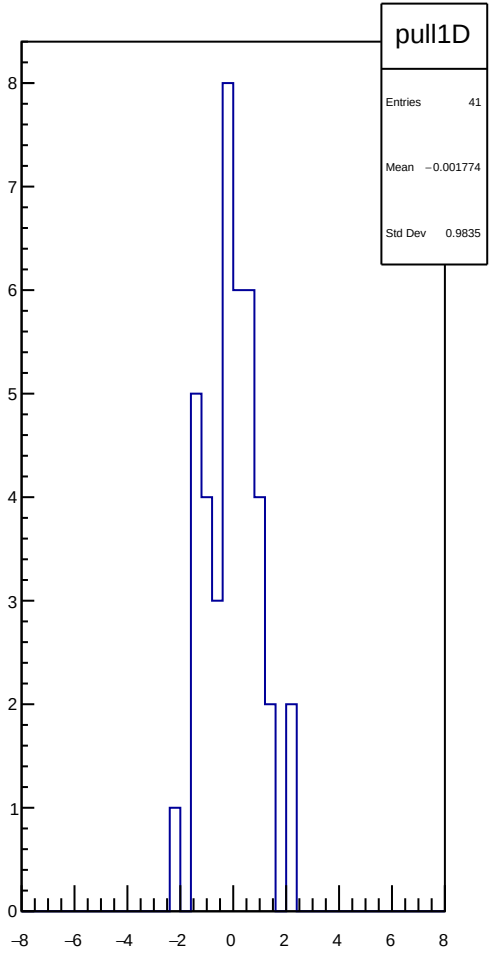

diff_bpm0l10Y_rms vs run
χ² / ndf 65.81 / 40
p0 1079 ± 1.214
1110
1100
1090
1080
1070
1060
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

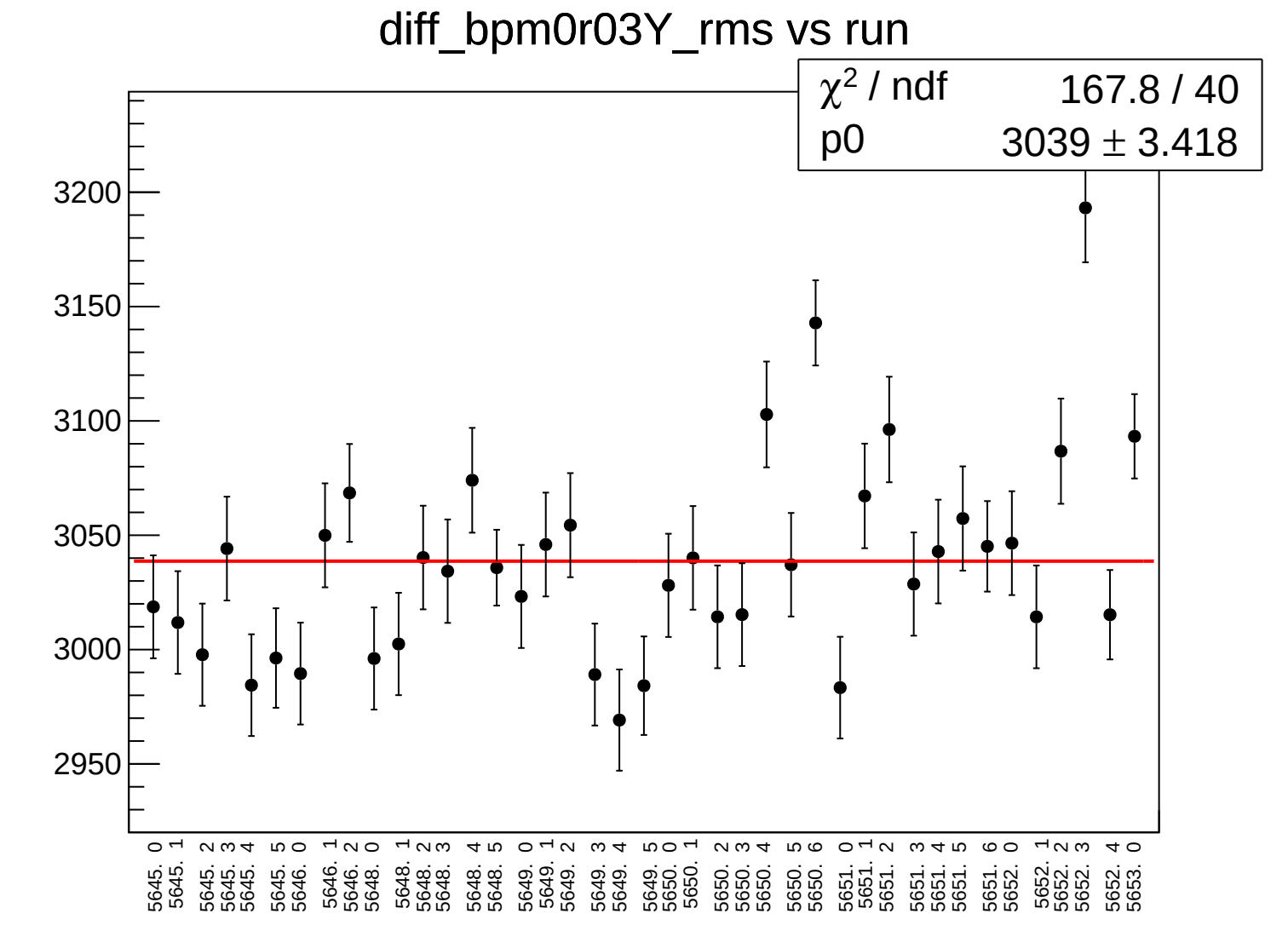

diff_bpm0r03X_mean vs run
χ² / ndf 39.12 / 40
p0 −164.3 ± 124.7
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.959
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

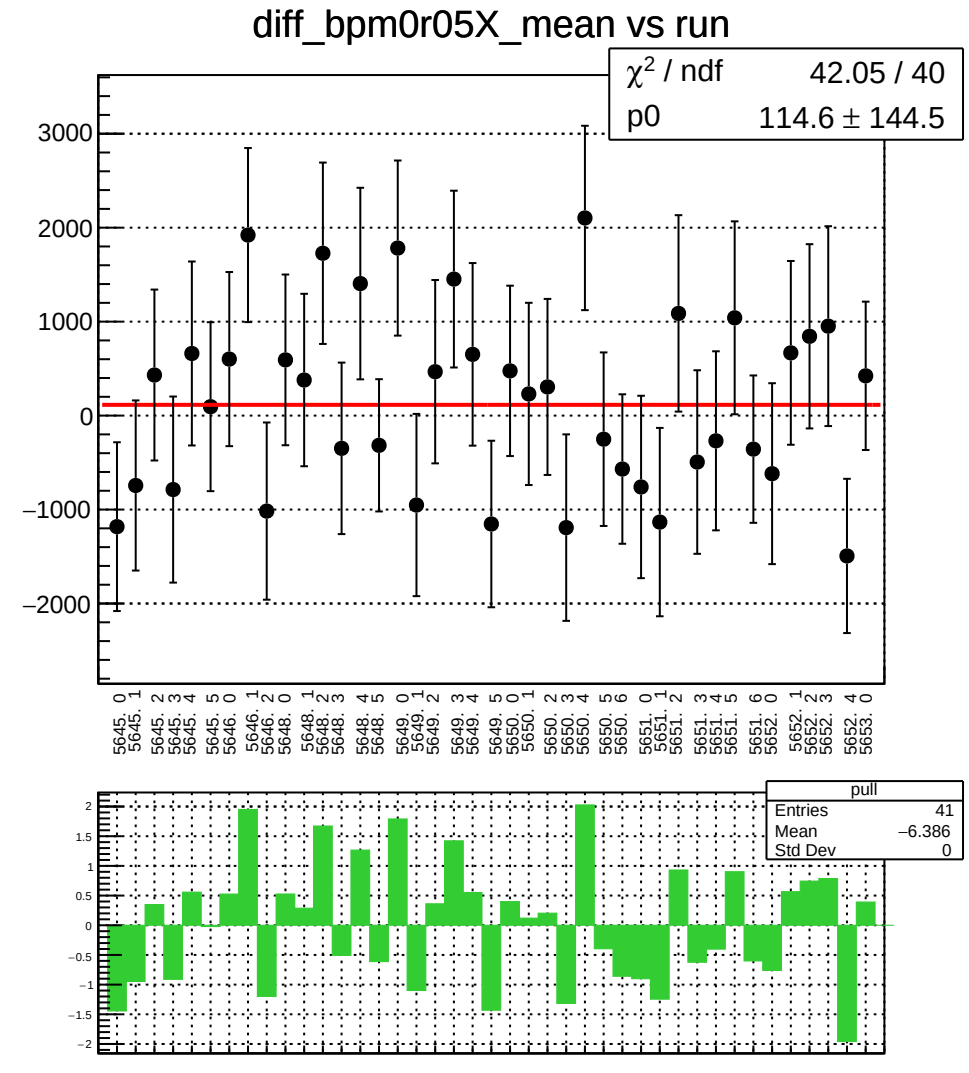

pull1D
Entries 41
Mean −0.02555
Std Dev 0.9765
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

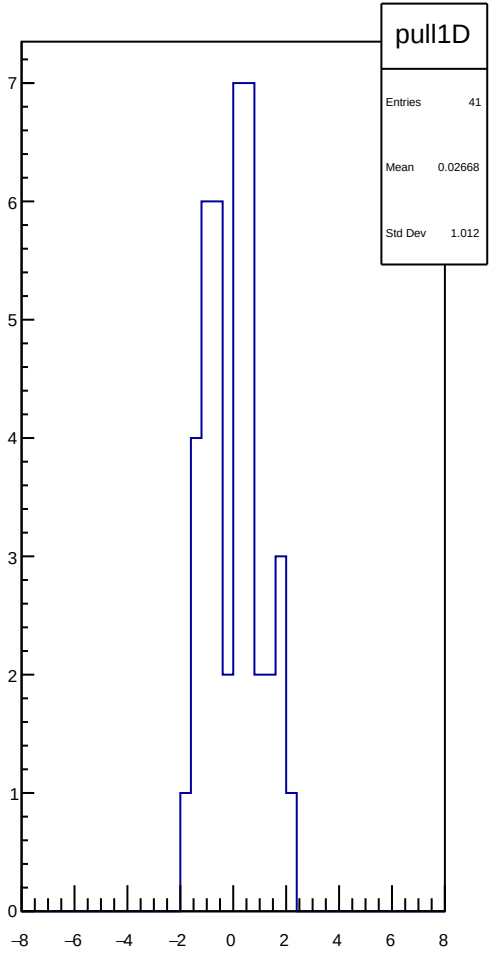

diff_bpm0r03X_rms vs run
χ² / ndf 1177 / 40
p0 7.833e+04 ± 88.17
88000
86000
84000
82000
80000
78000
76000
74000
72000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

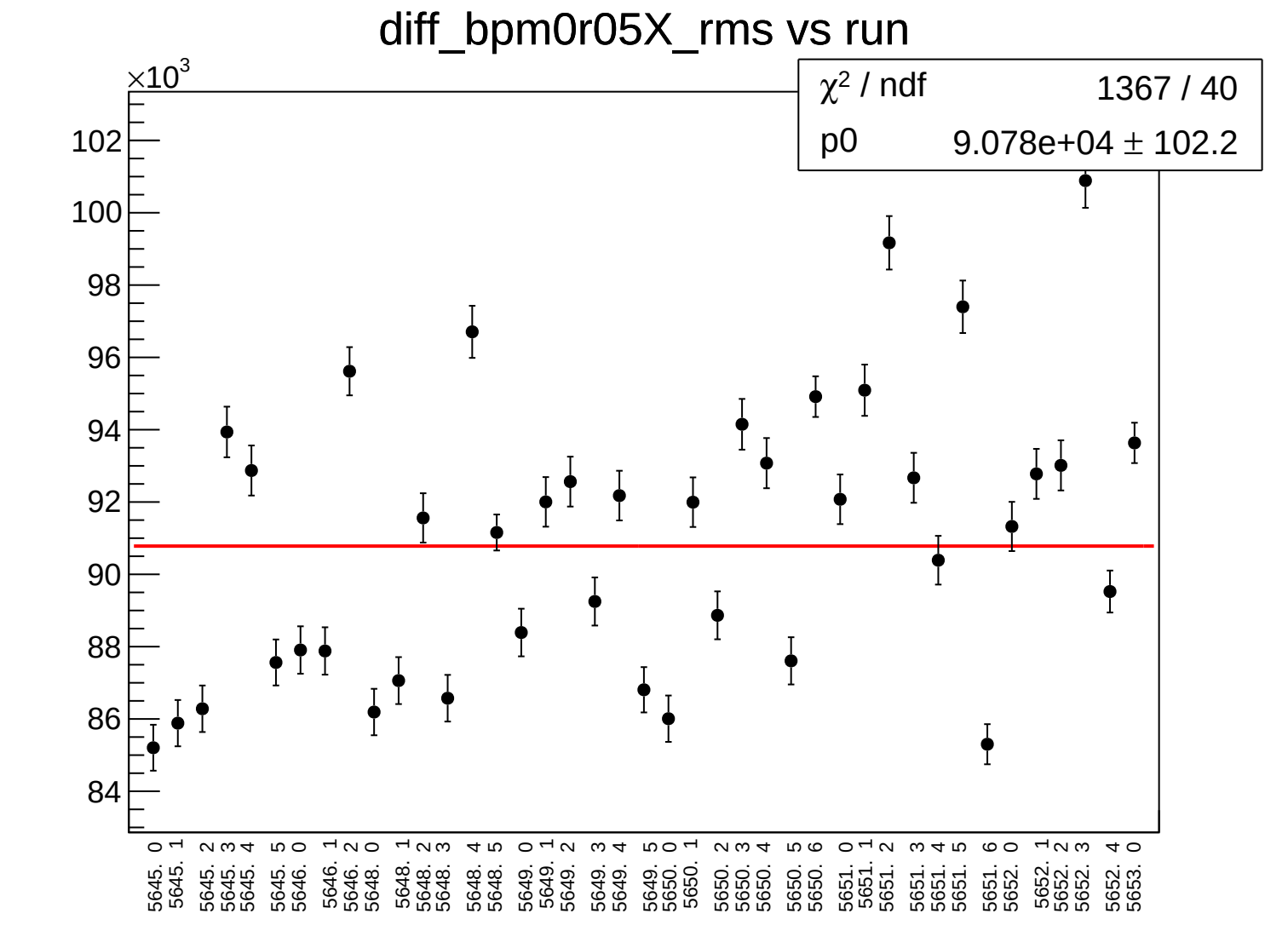

diff_bpm0r03Y_mean vs run
χ^2 / ndf 39.66 / 40
p0 19.21 ± 4.834
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1167
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

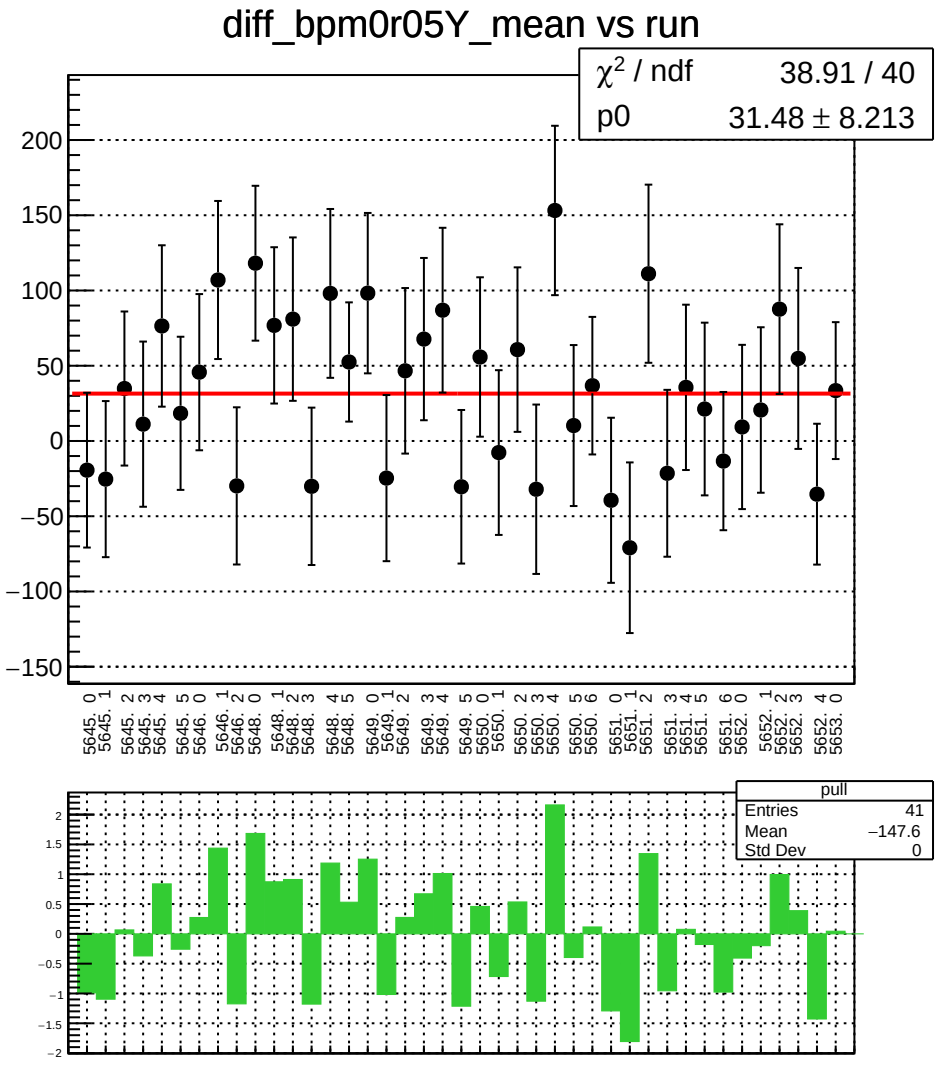

pull1D
Entries 41
Mean −0.001774
Std Dev 0.9835
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

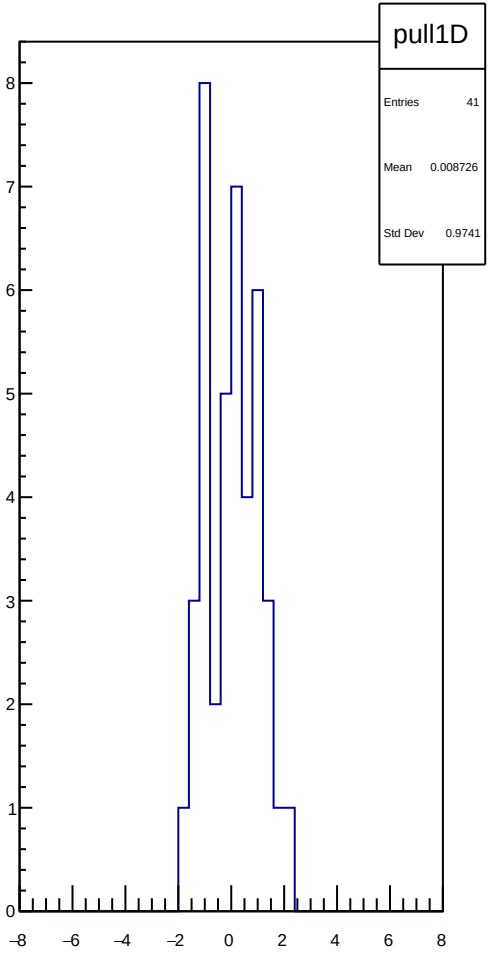

diff_bpm0r03Y_rms vs run
χ² / ndf 167.8 / 40
p0 3039 ± 3.418
3200
3150
3100
3050
3000
2950
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

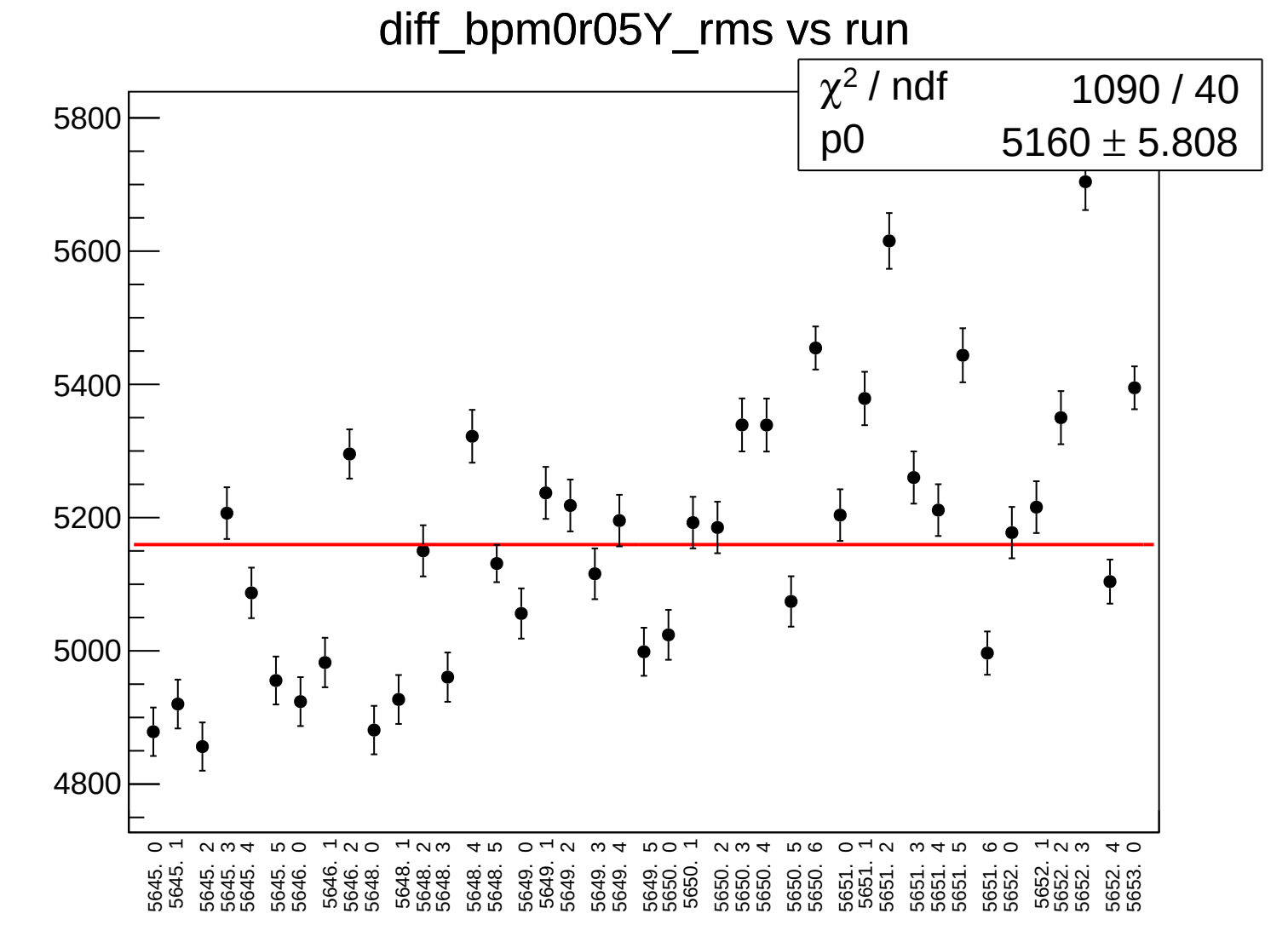

diff_bpm0r05X_mean vs run
χ^2 / ndf 42.05 / 40
p0 114.6 ± 144.5
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6.386
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

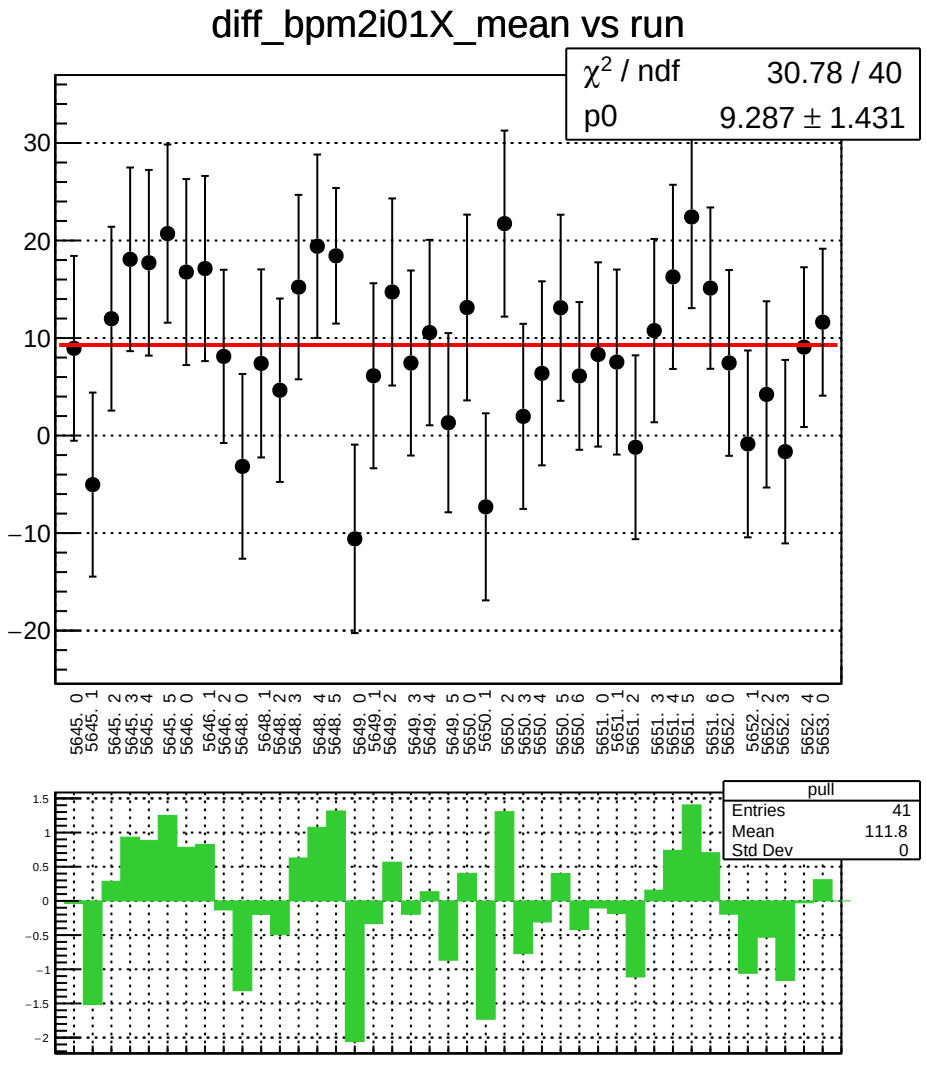

pull1D
Entries 41
Mean 0.02668
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

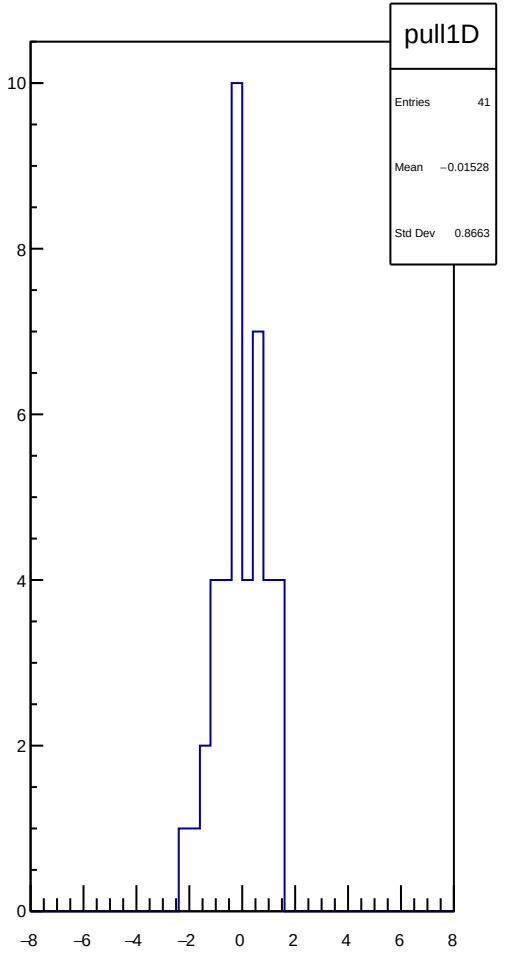

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 1367 / 40
p0 9.078e+04 ± 102.2
102
100
98
96
94
92
90
88
86
84
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

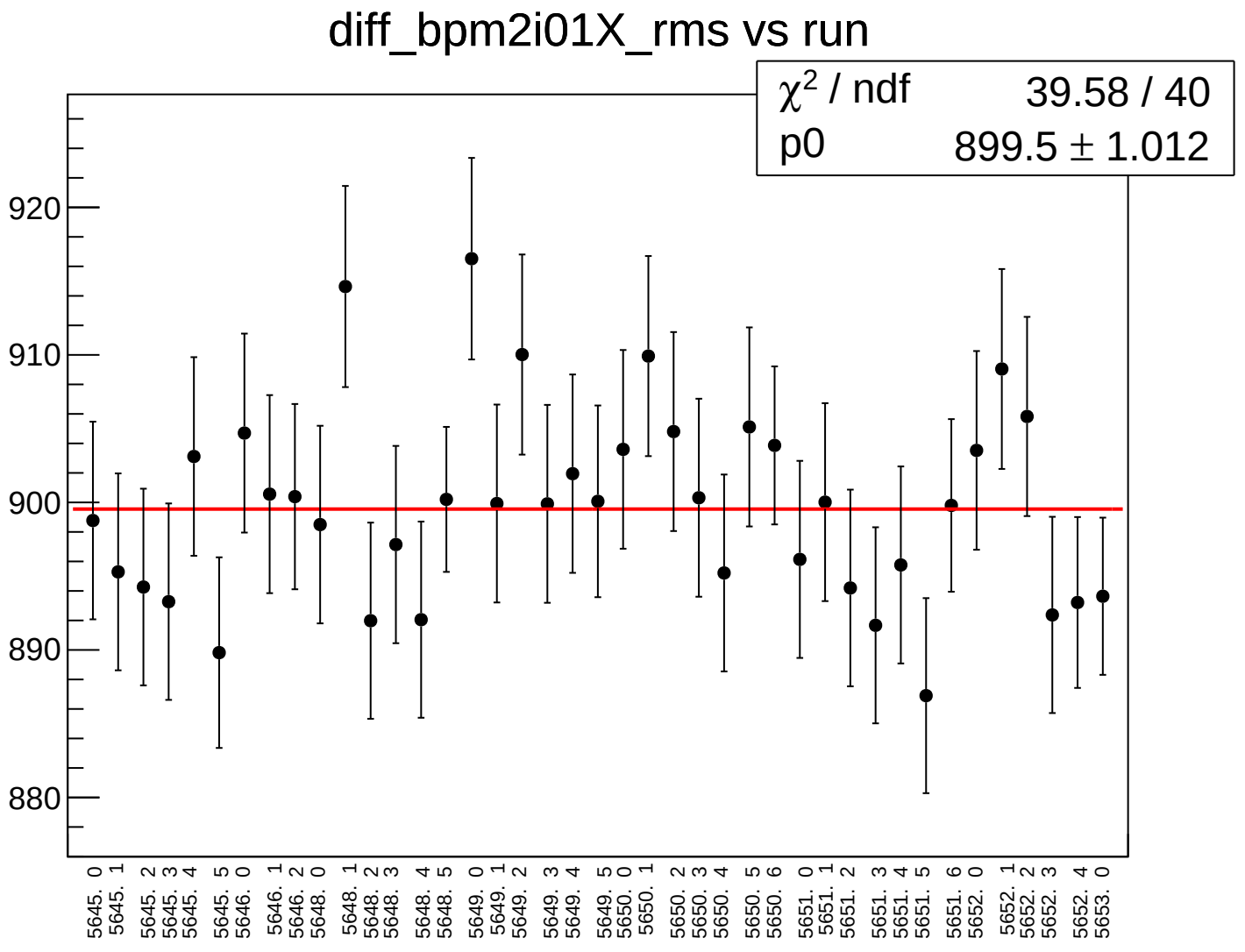

diff_bpm0r05Y_mean vs run
χ² / ndf 38.91 / 40
p0 31.48 ± 8.213
pull
Entries 41
Mean −147.6
Std Dev 0

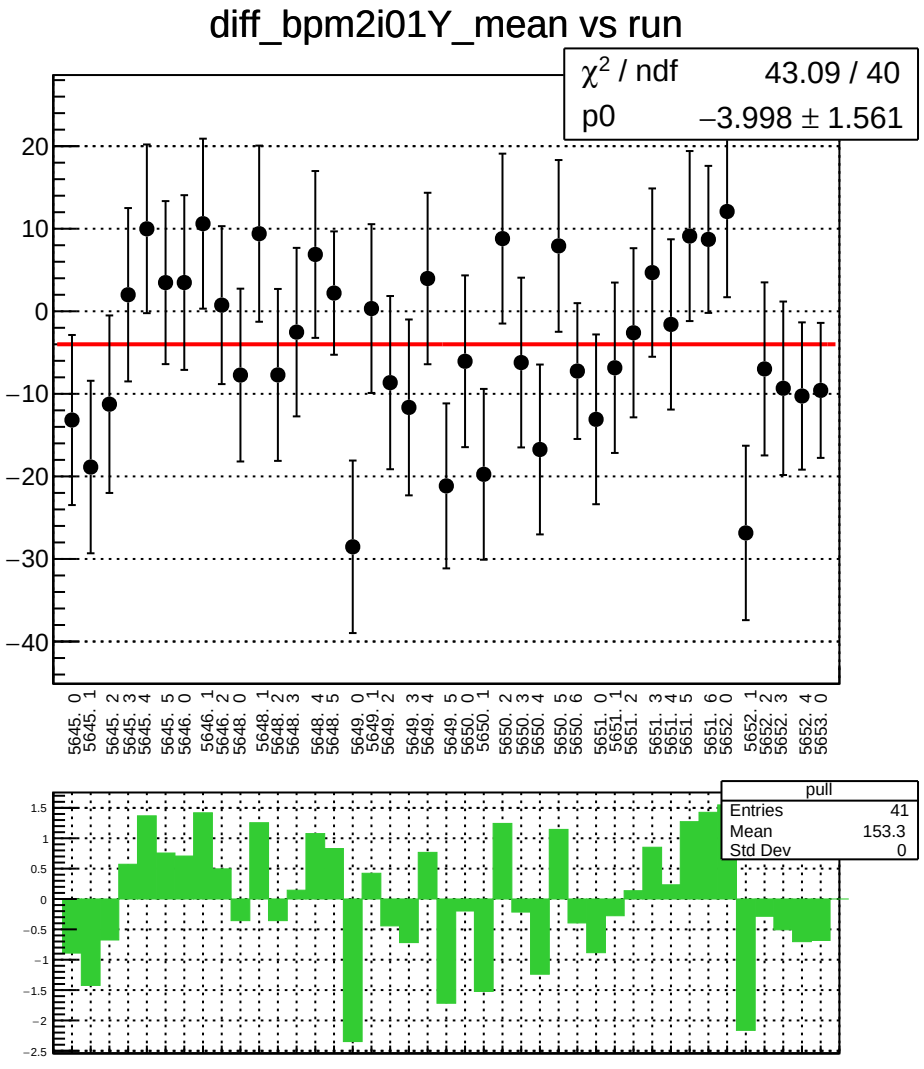

pull1D
Entries 41
Mean 0.008726
Std Dev 0.9741

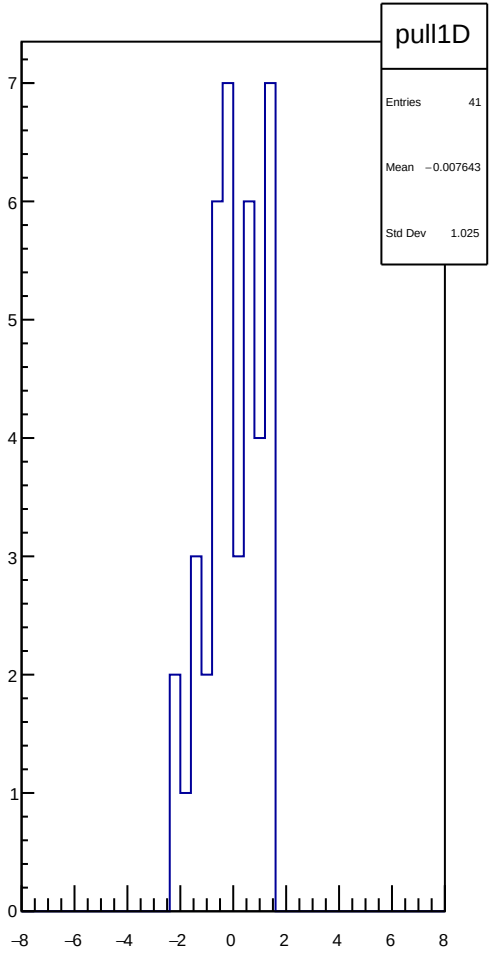

diff_bpm0r05Y_rms vs run
χ² / ndf 1090 / 40
p0 5160 ± 5.808
5800
5600
5400
5200
5000
4800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

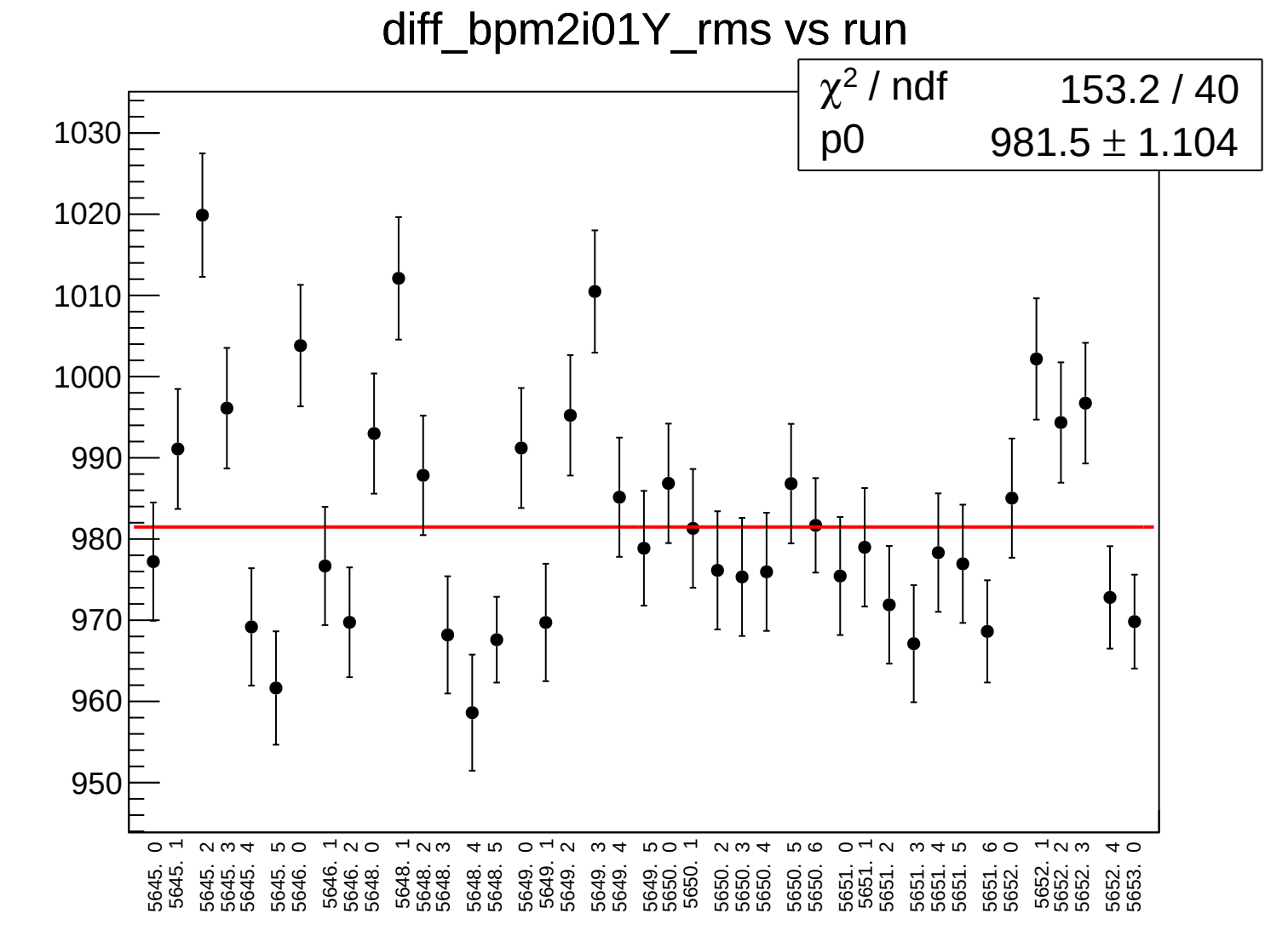

diff_bpm2i01X_mean vs run
χ^2 / ndf 30.78 / 40
p0 9.287 ± 1.431
pull
Entries 41
Mean 111.8
Std Dev 0

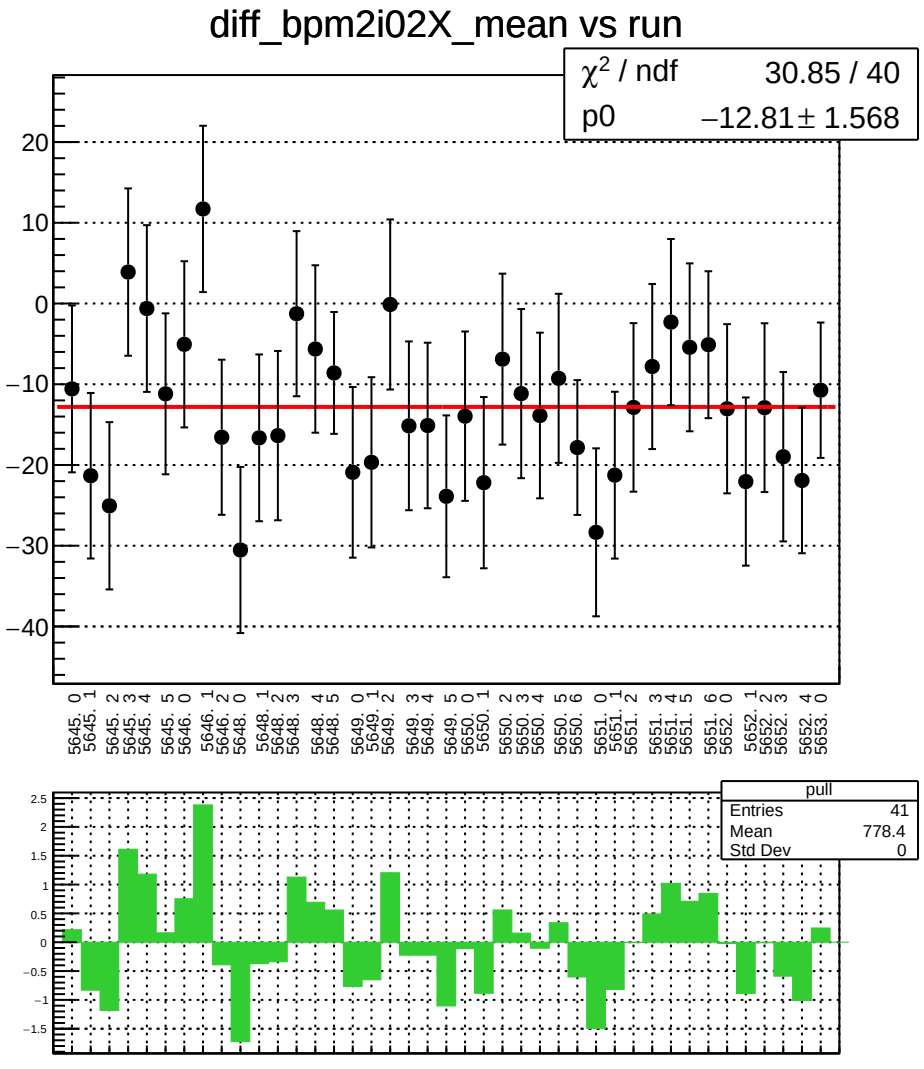

pull1D
Entries 41
Mean −0.01528
Std Dev 0.8663

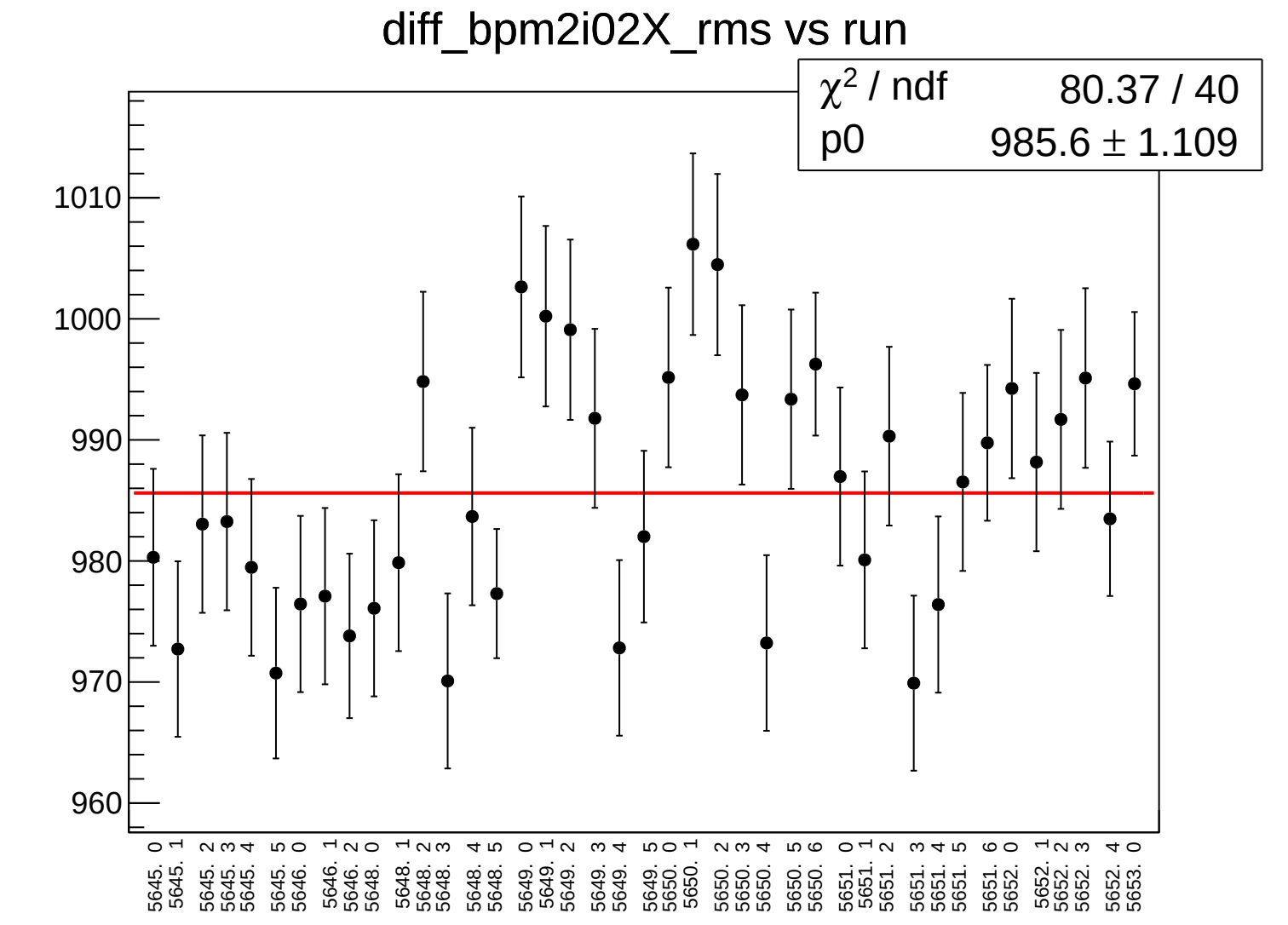

diff_bpm2i01X_rms vs run
χ^2 / ndf 39.58 / 40
p0 899.5 ± 1.012
920
910
900
890
880
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

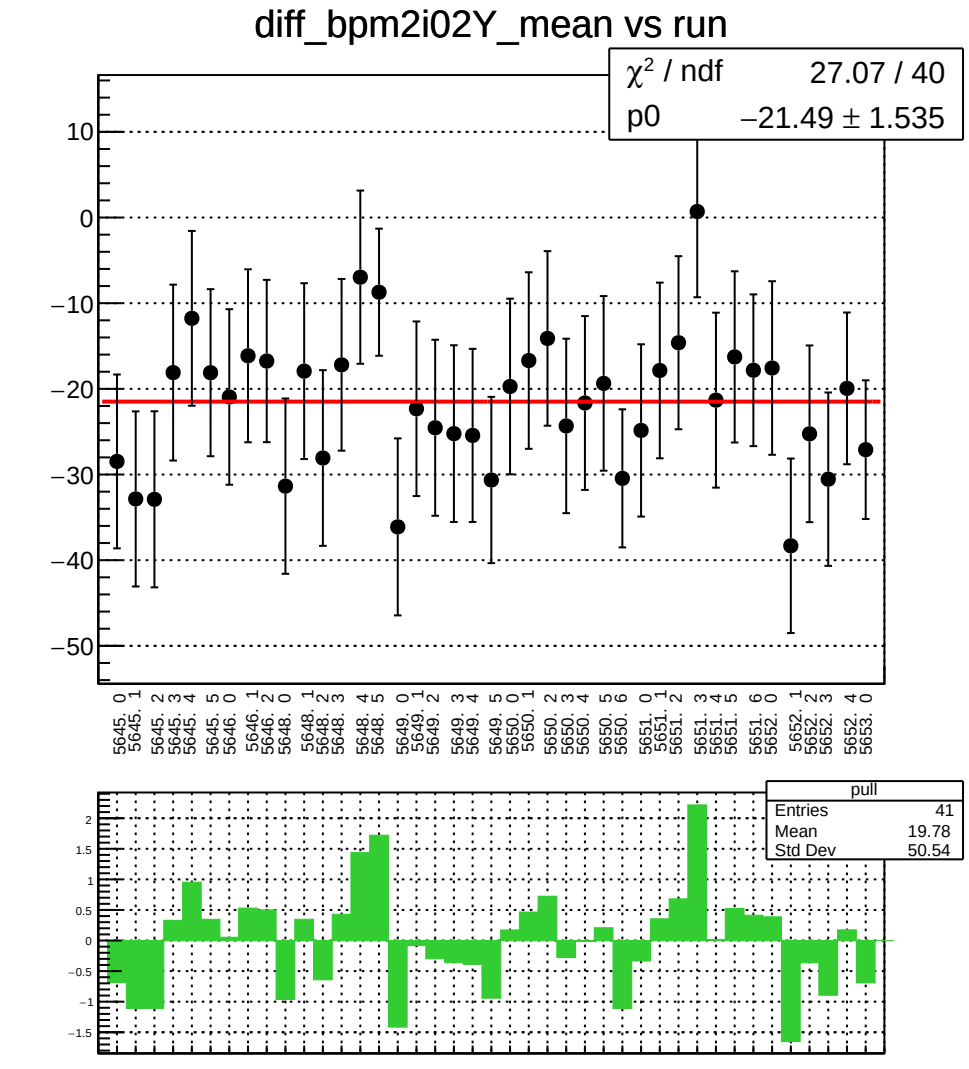

diff_bpm2i01Y_mean vs run
χ^2 / ndf 43.09 / 40
p0 −3.998 ± 1.561
pull
Entries 41
Mean 153.3
Std Dev 0

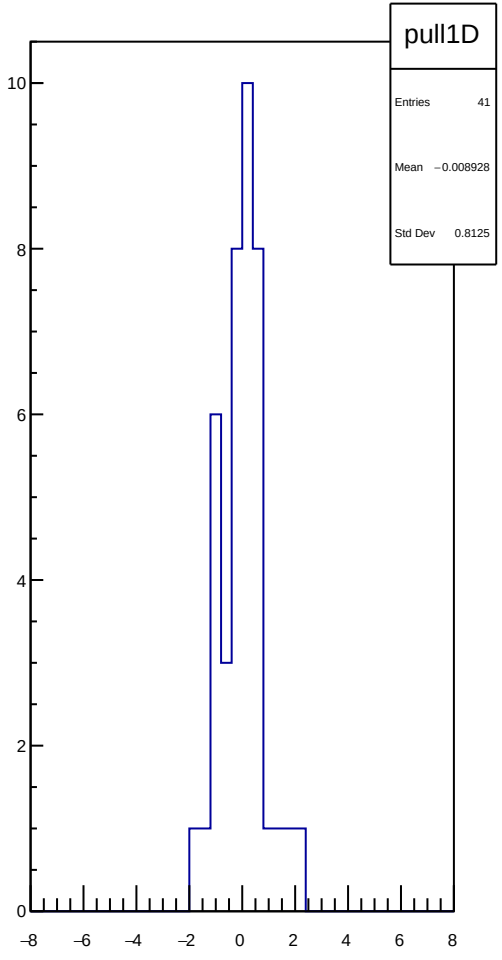

pull1D
Entries 41
Mean −0.007643
Std Dev 1.025

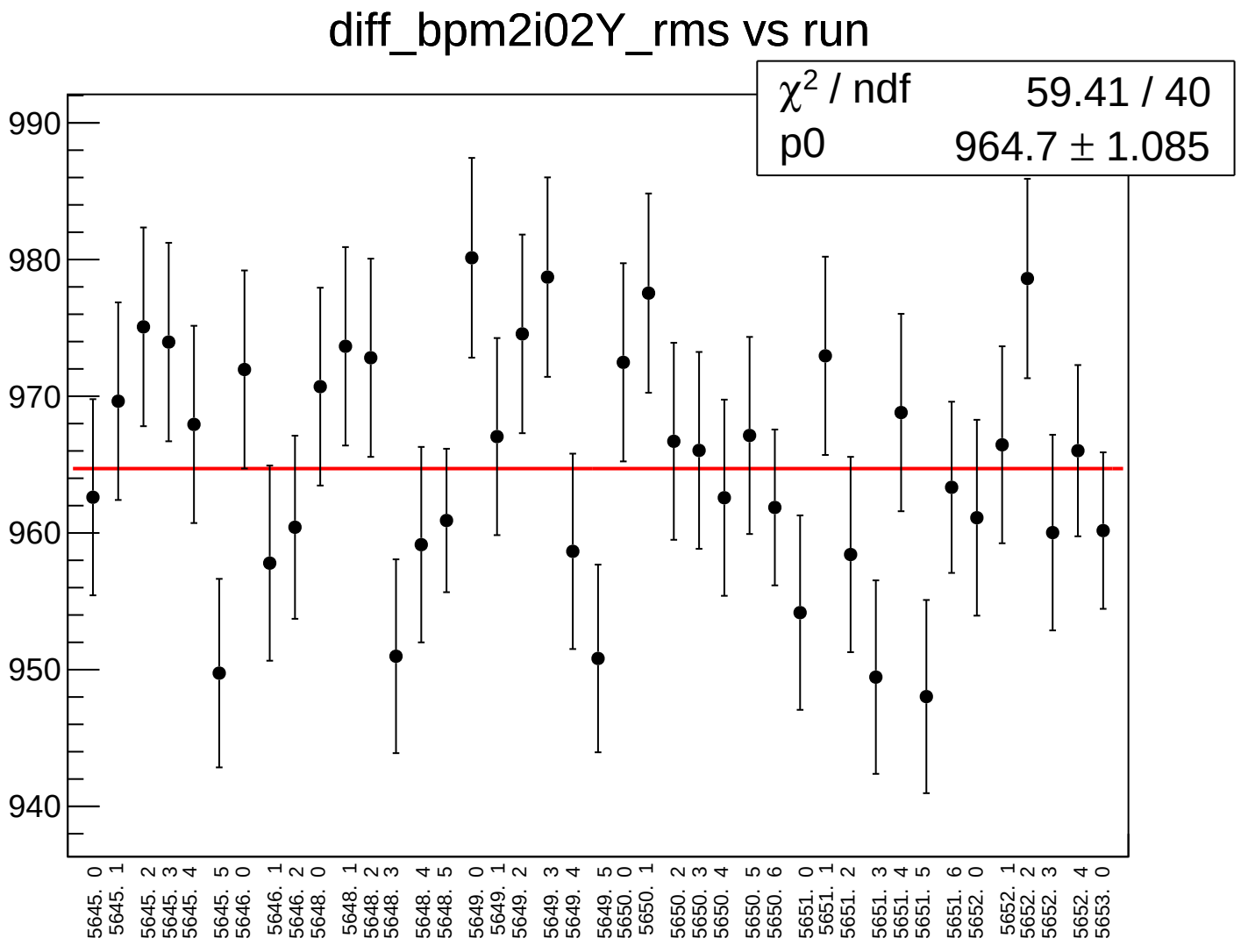

diff_bpm2i01Y_rms vs run
χ² / ndf 153.2 / 40
p0 981.5 ± 1.104
1030
1020
1010
1000
990
980
970
960
950
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

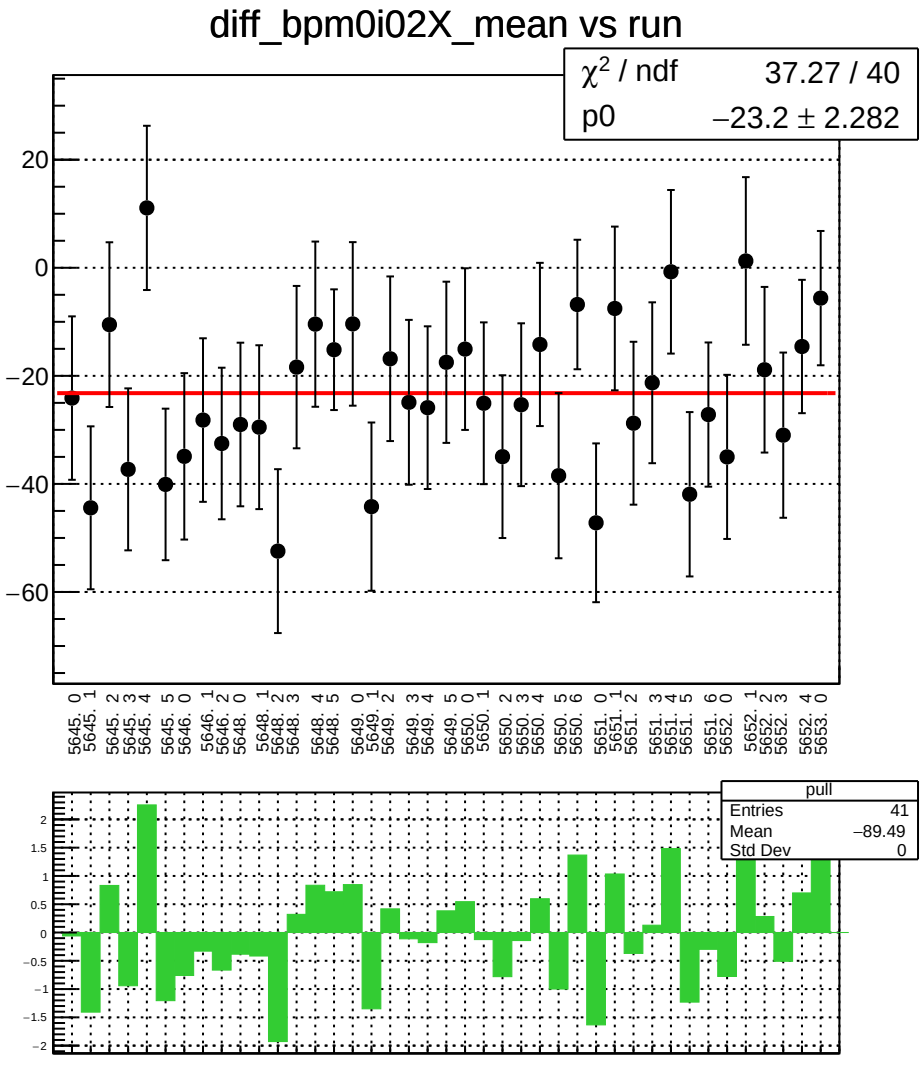

diff_bpm2i02X_mean vs run
χ² / ndf 30.85 / 40
p0 −12.81± 1.568
pull
Entries 41
Mean 778.4
Std Dev 0
pull1D
Entries 41
Mean −0.002036
Std Dev 0.8674

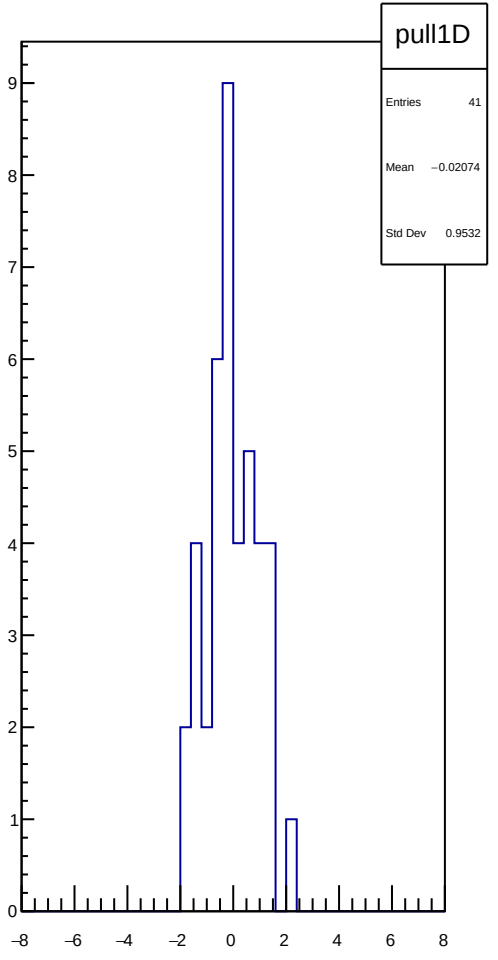

diff_bpm2i02X_rms vs run
χ² / ndf 80.37 / 40
p0 985.6 ± 1.109
1010
1000
990
980
970
960
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

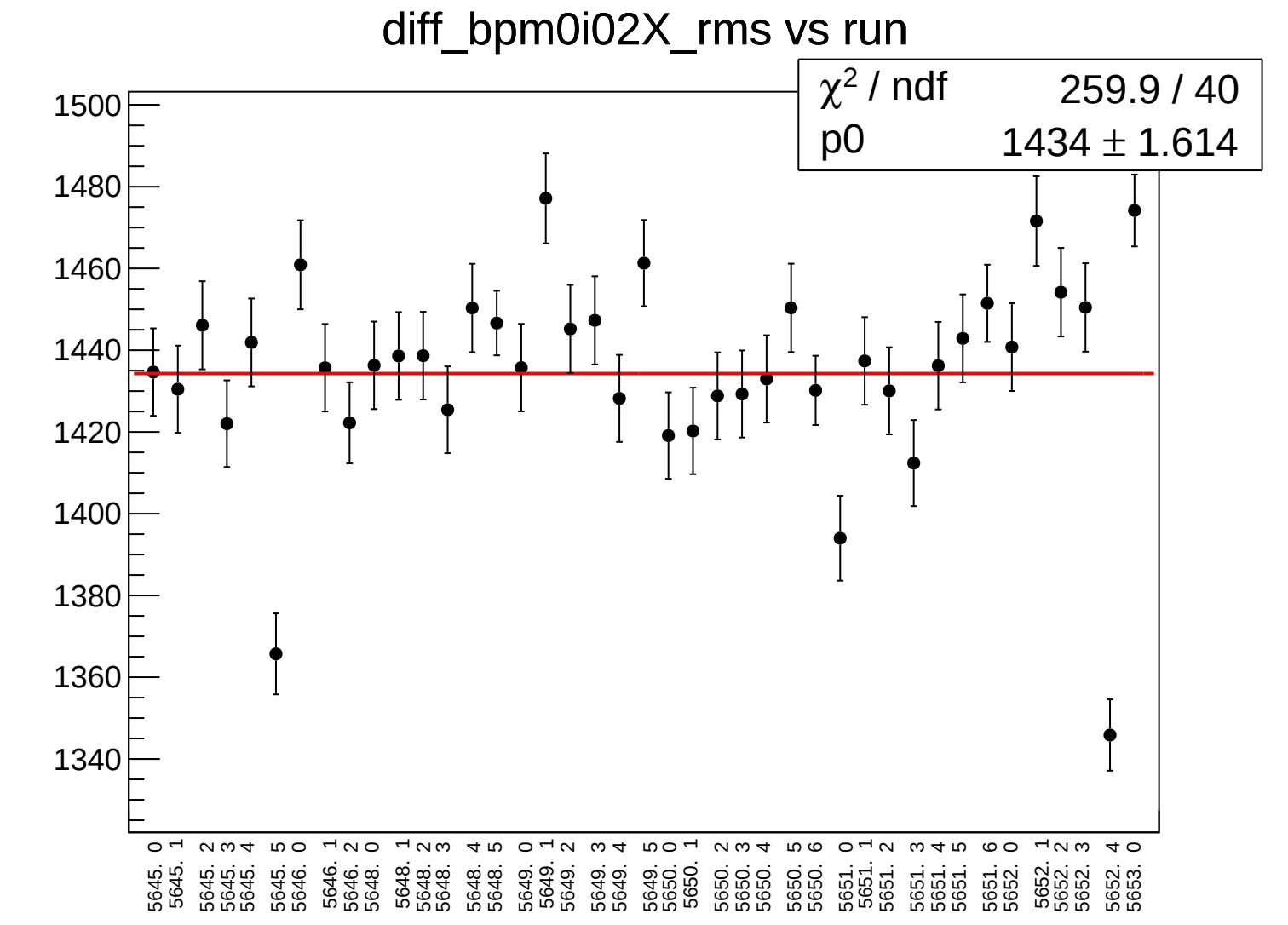

diff_bpm2i02Y_mean vs run
χ² / ndf 27.07 / 40
p0 −21.49 ± 1.535
pull
Entries 41
Mean 19.78
Std Dev 50.54

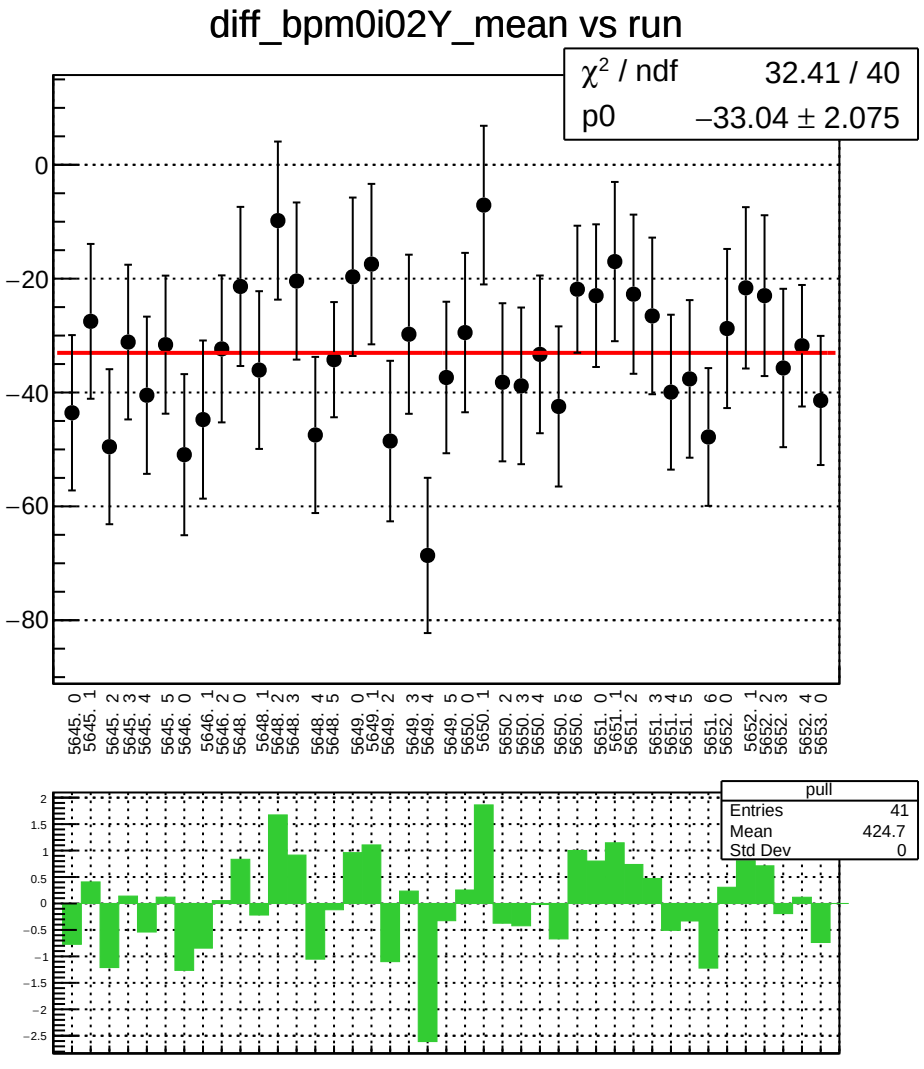

pull1D
Entries 41
Mean −0.008928
Std Dev 0.8125

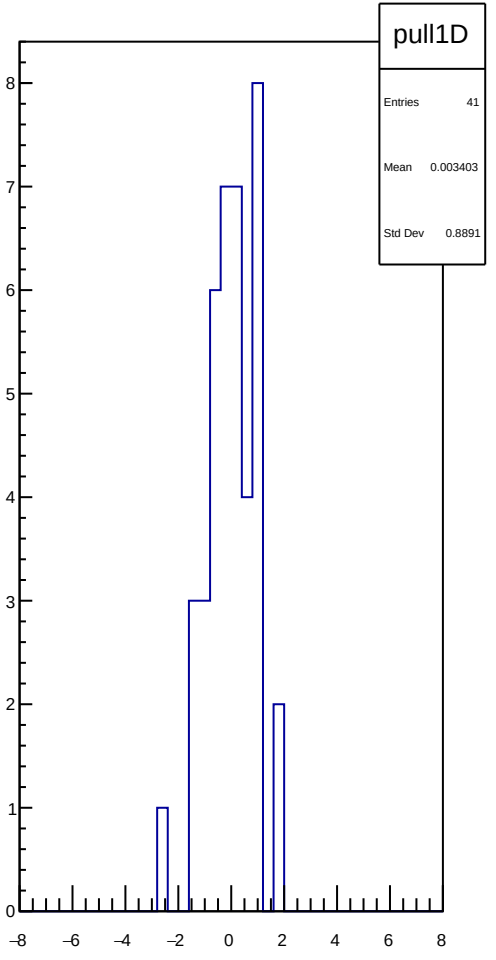

diff_bpm2i02Y_rms vs run
χ² / ndf 59.41 / 40
p0 964.7 ± 1.085
990
980
970
960
950
940
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

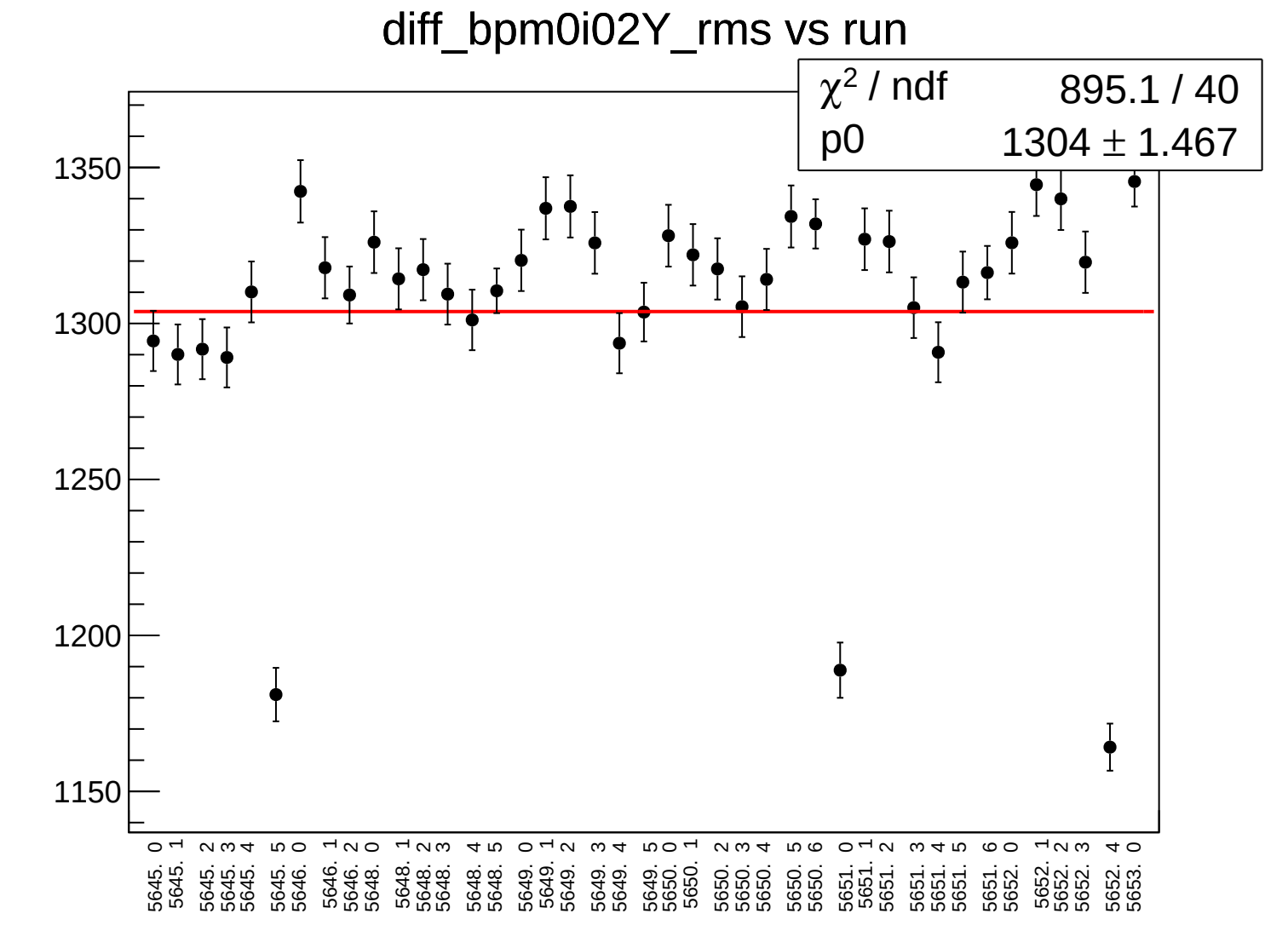

diff_bpm0i02X_mean vs run
χ² / ndf 37.27 / 40
p0 −23.2 ± 2.282
20
0
−20
−40
−60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −89.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

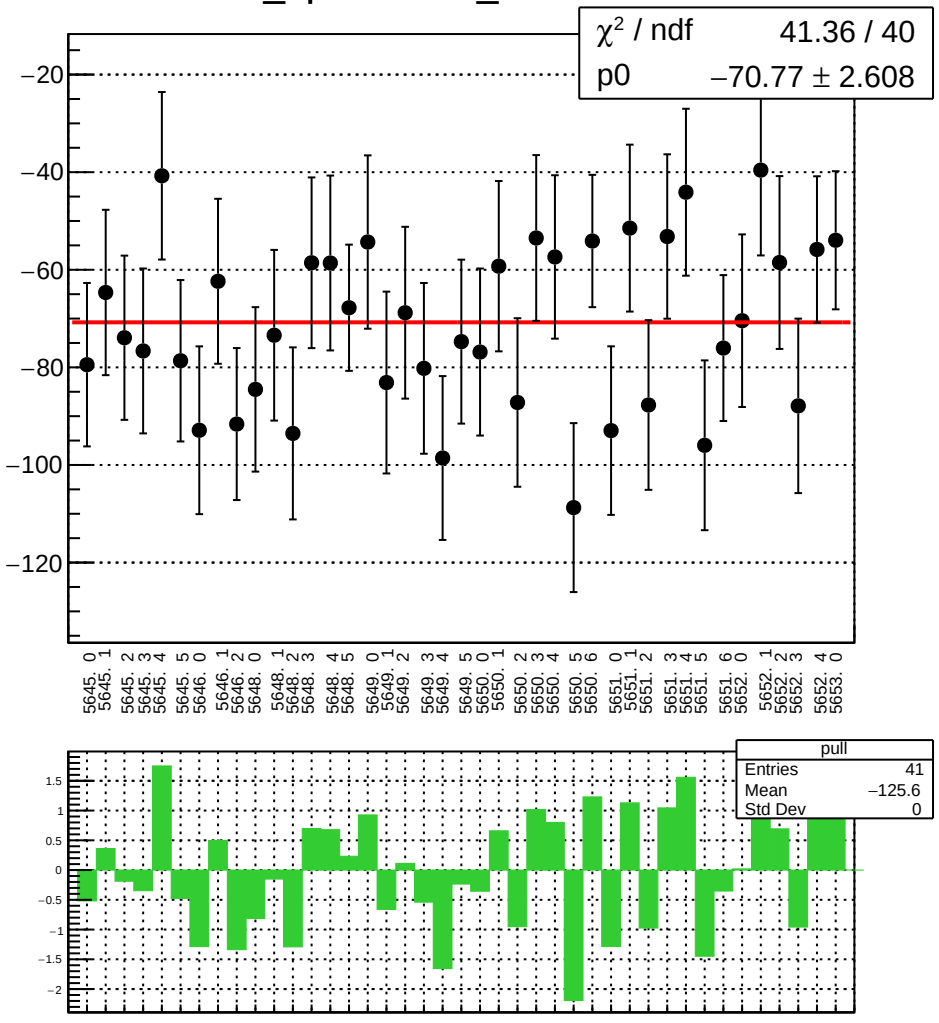

pull1D
Entries 41
Mean −0.02074
Std Dev 0.9532
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

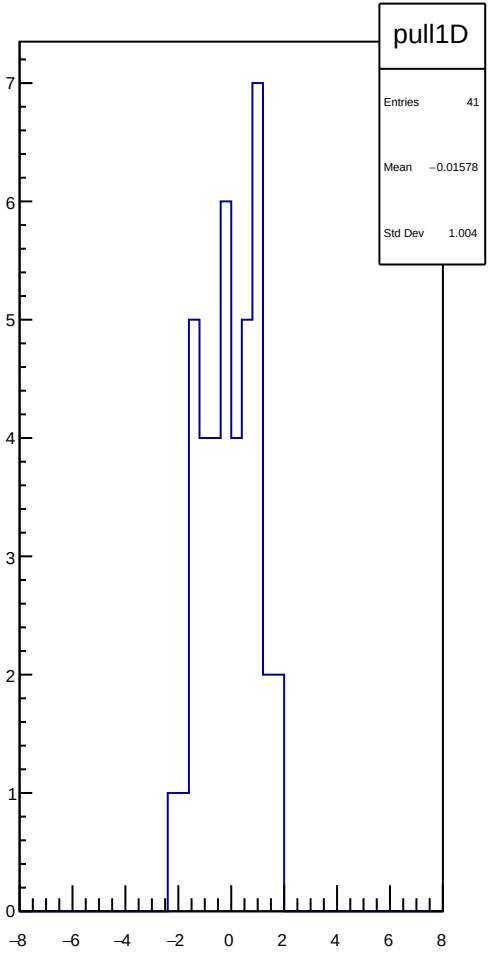

diff_bpm0i02X_rms vs run
χ² / ndf 259.9 / 40
p0 1434 ± 1.614
1500
1480
1460
1440
1420
1400
1380
1360
1340
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

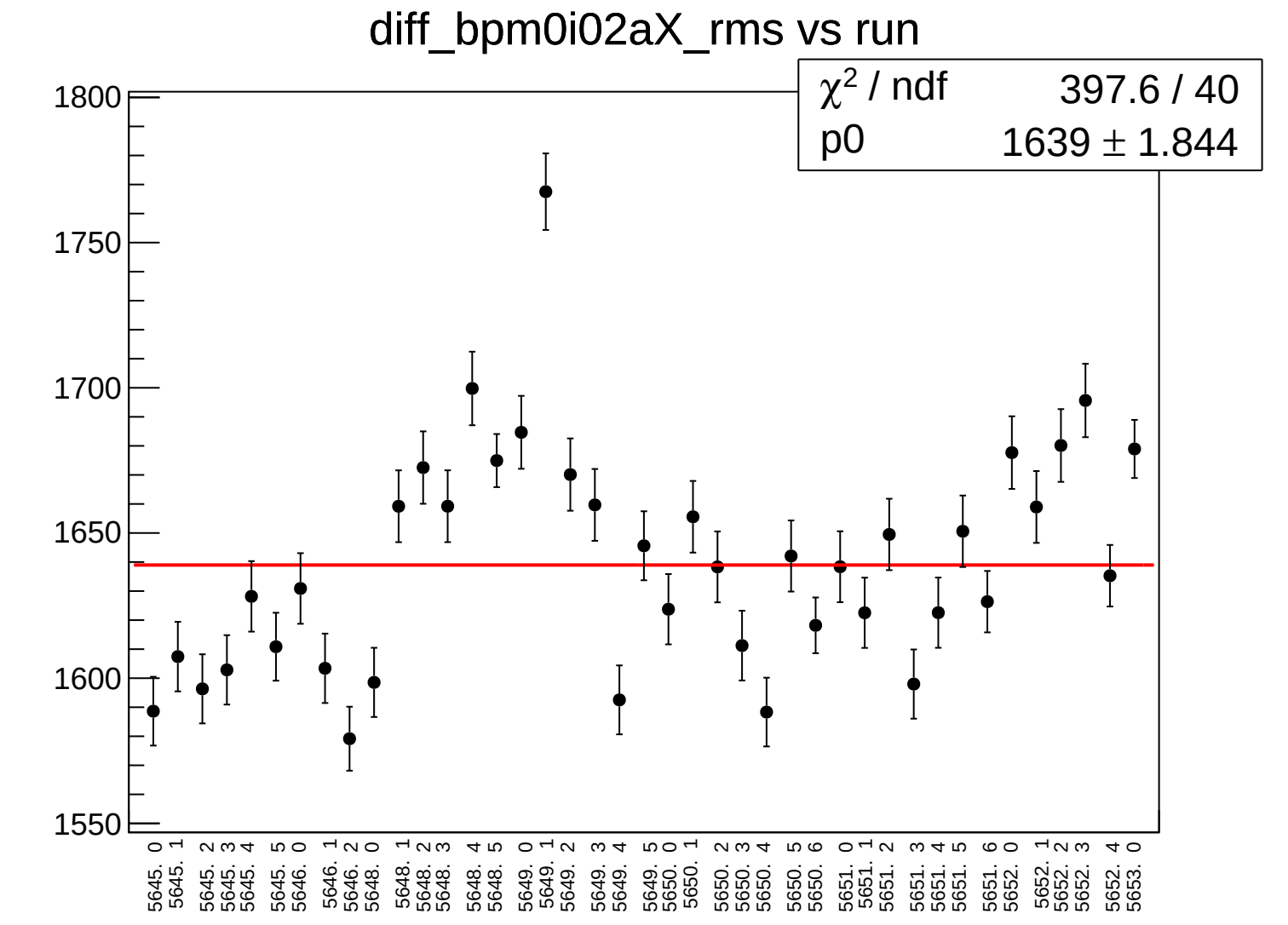

diff_bpm0i02Y_mean vs run
χ² / ndf 32.41 / 40
p0 −33.04 ± 2.075
0
−20
−40
−60
−80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 424.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

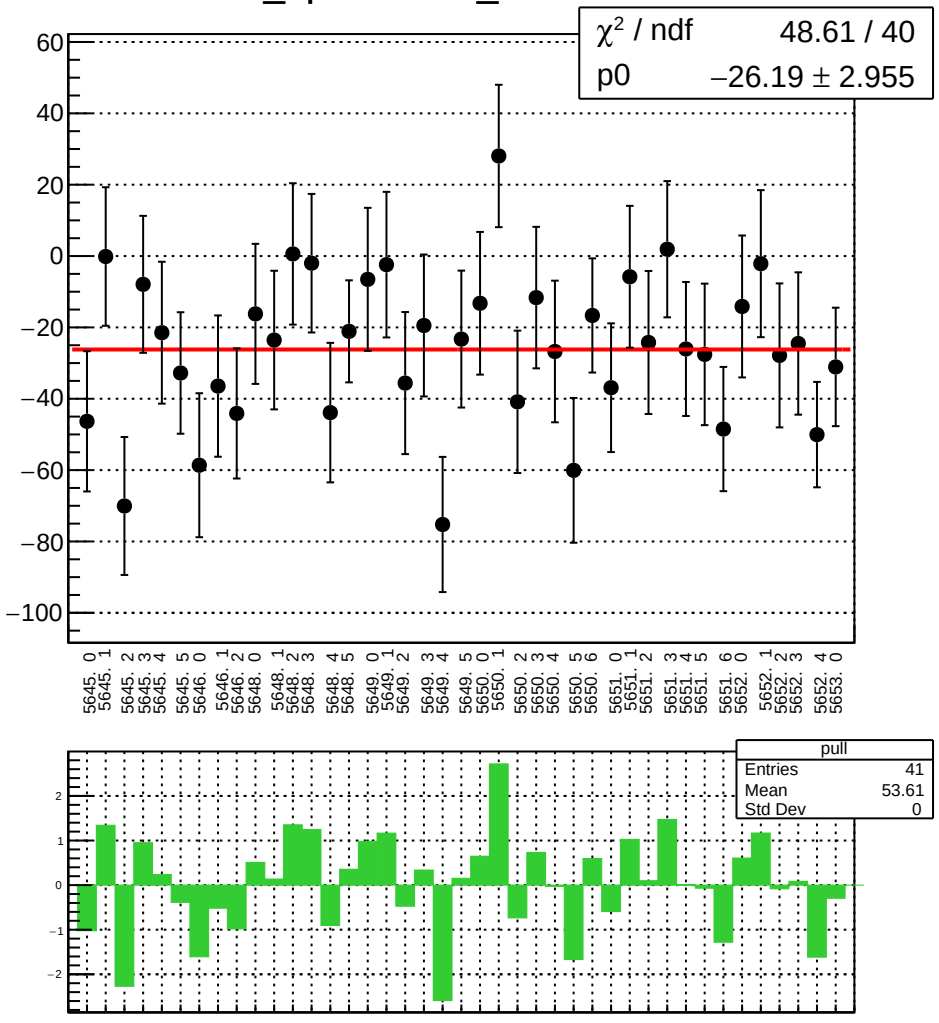

pull1D
Entries 41
Mean 0.003403
Std Dev 0.8891
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

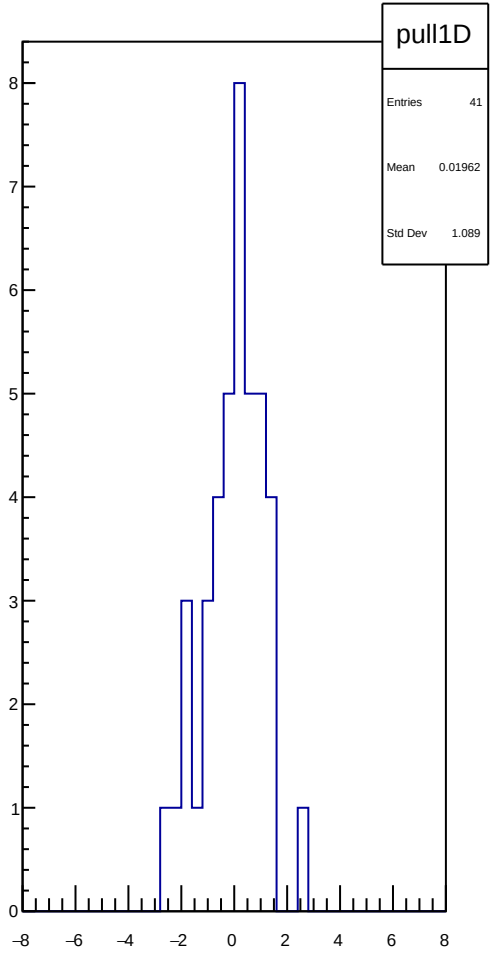

diff_bpm0i02Y_rms vs run
χ² / ndf 895.1 / 40
p0 1304 ± 1.467
1350
1300
1250
1200
1150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

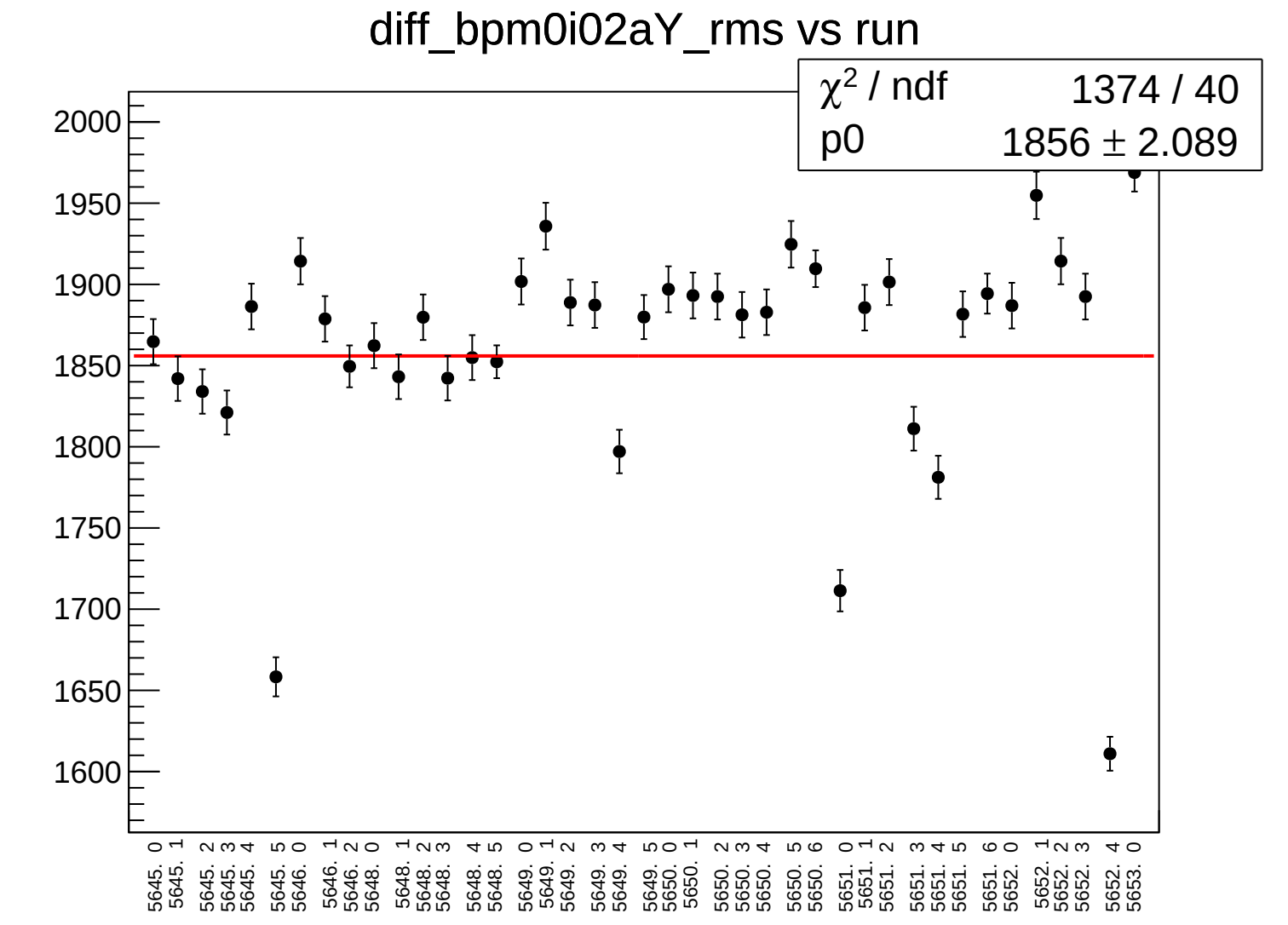

diff_bpm0i02aX_mean vs run
χ² / ndf 41.36 / 40
p0 −70.77 ± 2.608
−20
−40
−60
−80
−100
−120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −125.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

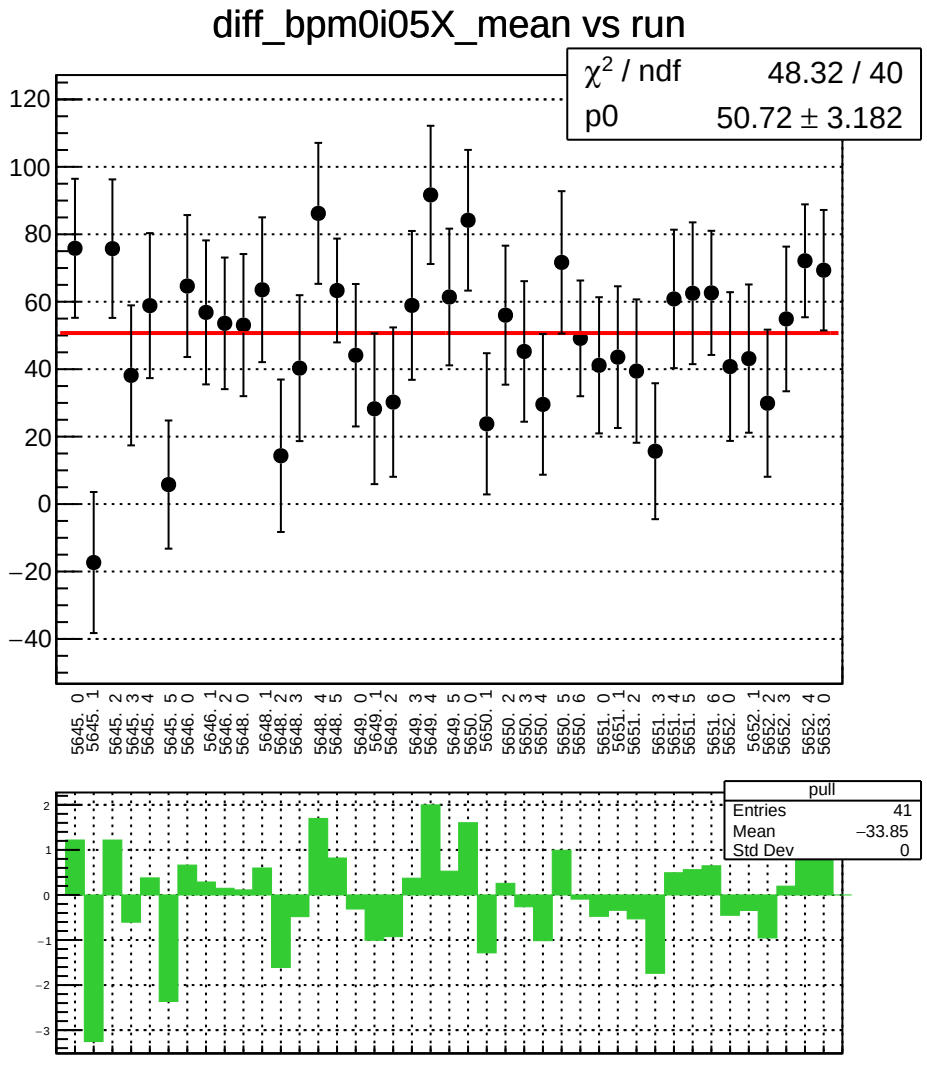

pull1D
Entries 41
Mean −0.01578
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

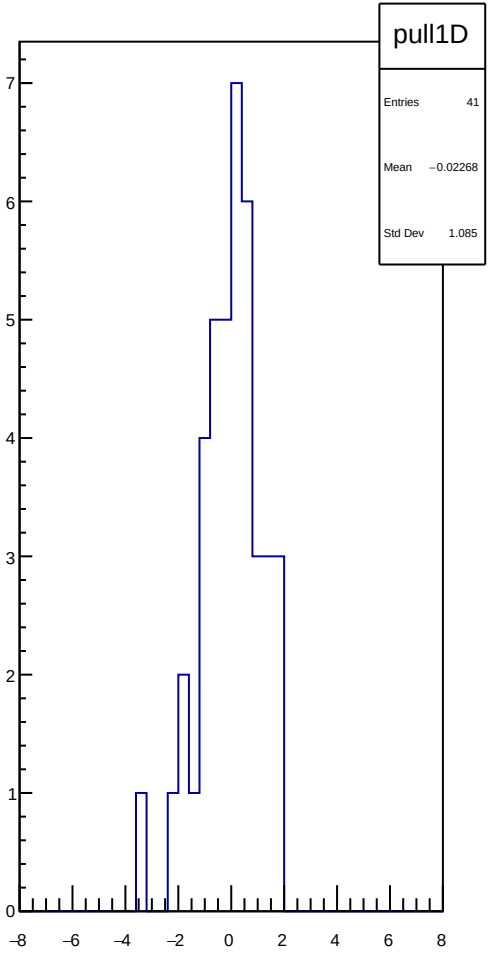

diff_bpm0i02aX_rms vs run
χ² / ndf 397.6 / 40
p0 1639 ± 1.844
1800
1750
1700
1650
1600
1550
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

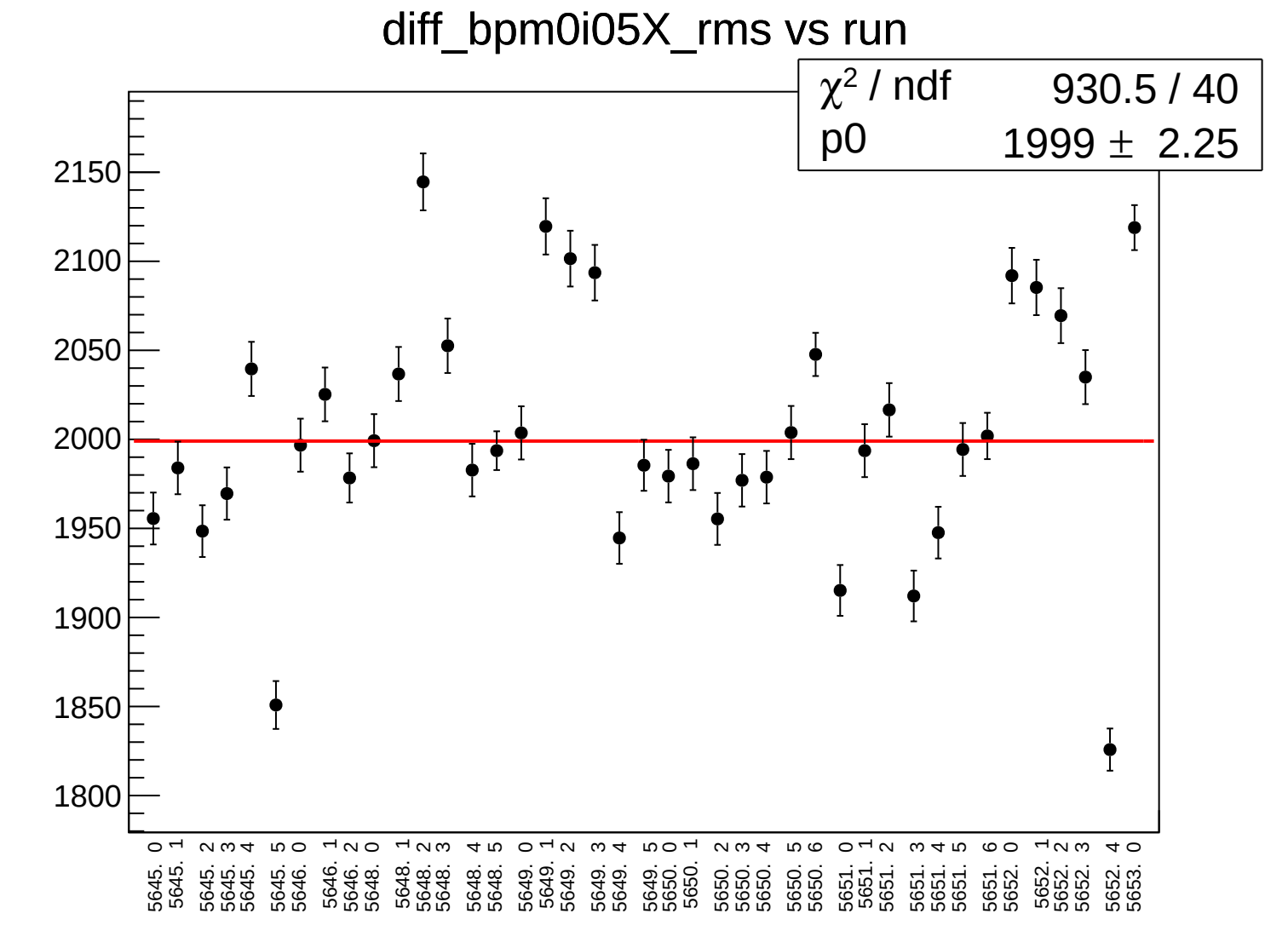

diff_bpm0i02aY_mean vs run
χ² / ndf 48.61 / 40
p0 −26.19 ± 2.955
pull
Entries 41
Mean 53.61
Std Dev 0

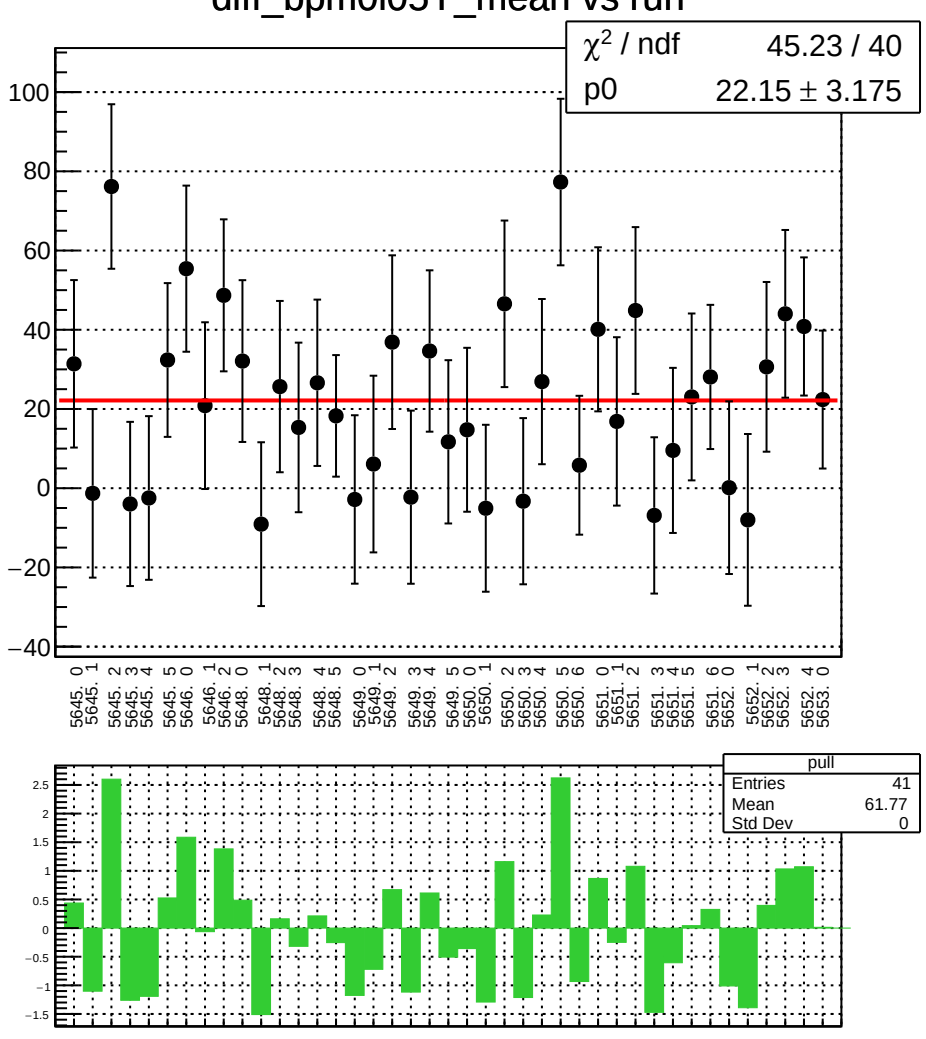

pull1D
Entries 41
Mean 0.01962
Std Dev 1.089

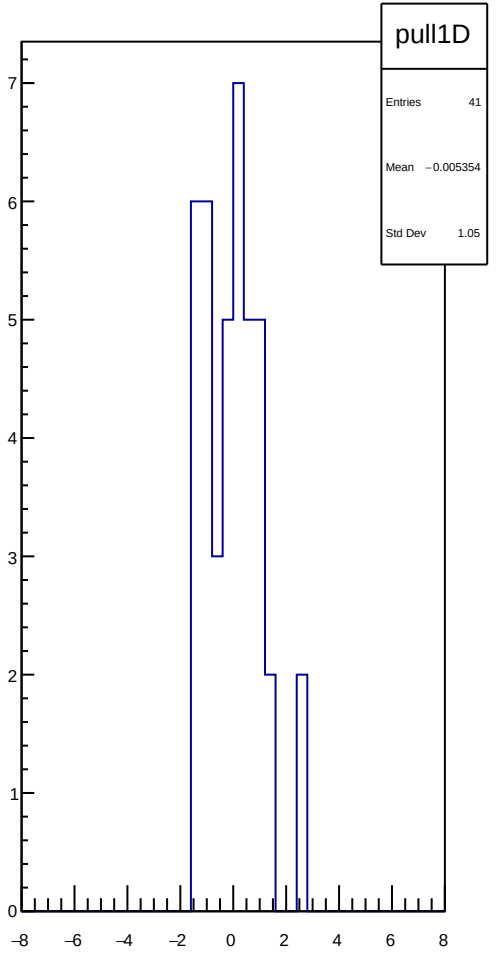

diff_bpm0i02aY_rms vs run
χ² / ndf 1374 / 40
p0 1856 ± 2.089
2000
1950
1900
1850
1800
1750
1700
1650
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

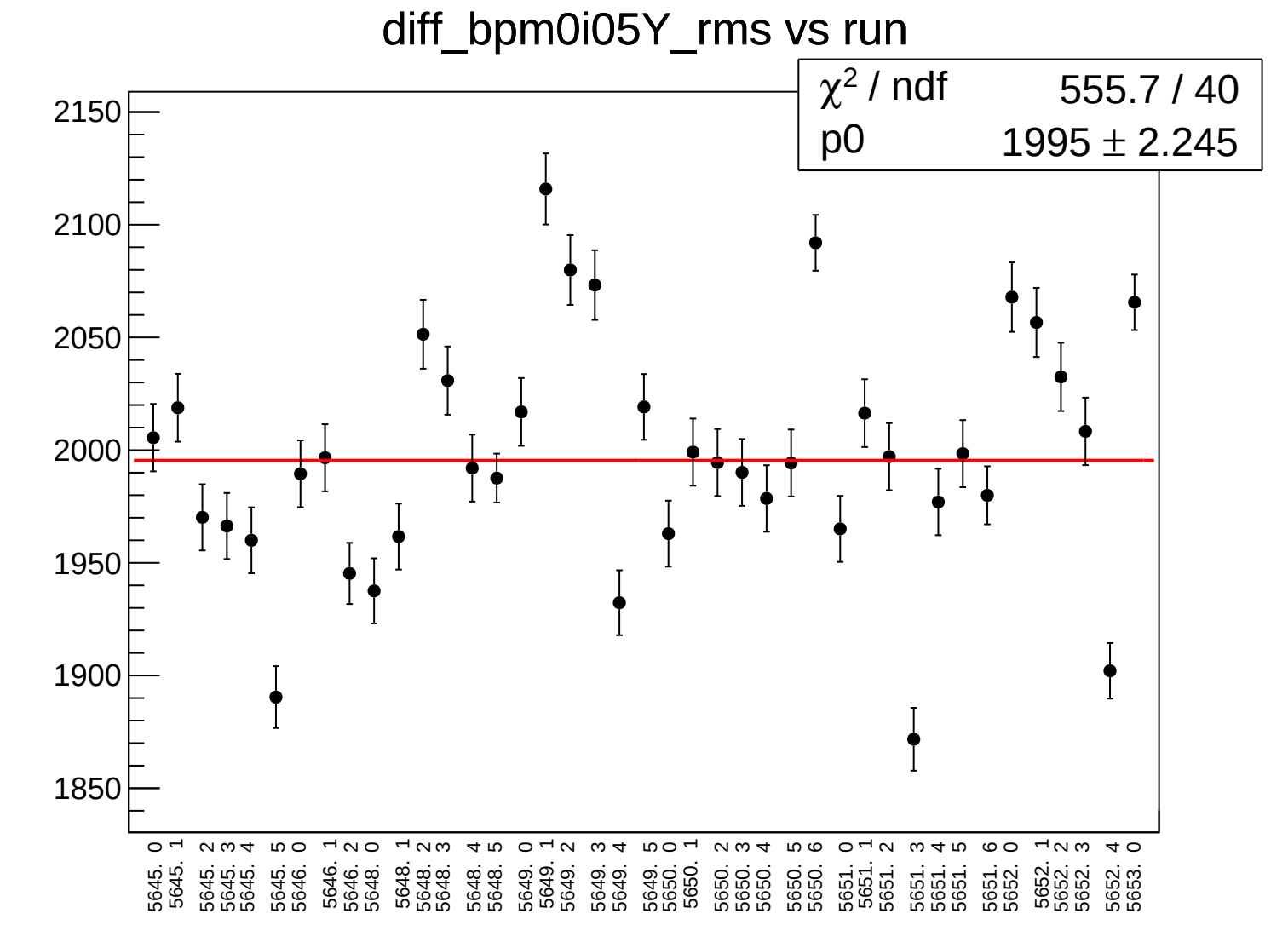

diff_bpm0i05X_mean vs run
χ² / ndf 48.32 / 40
p0 50.72 ± 3.182
pull
Entries 41
Mean −33.85
Std Dev 0

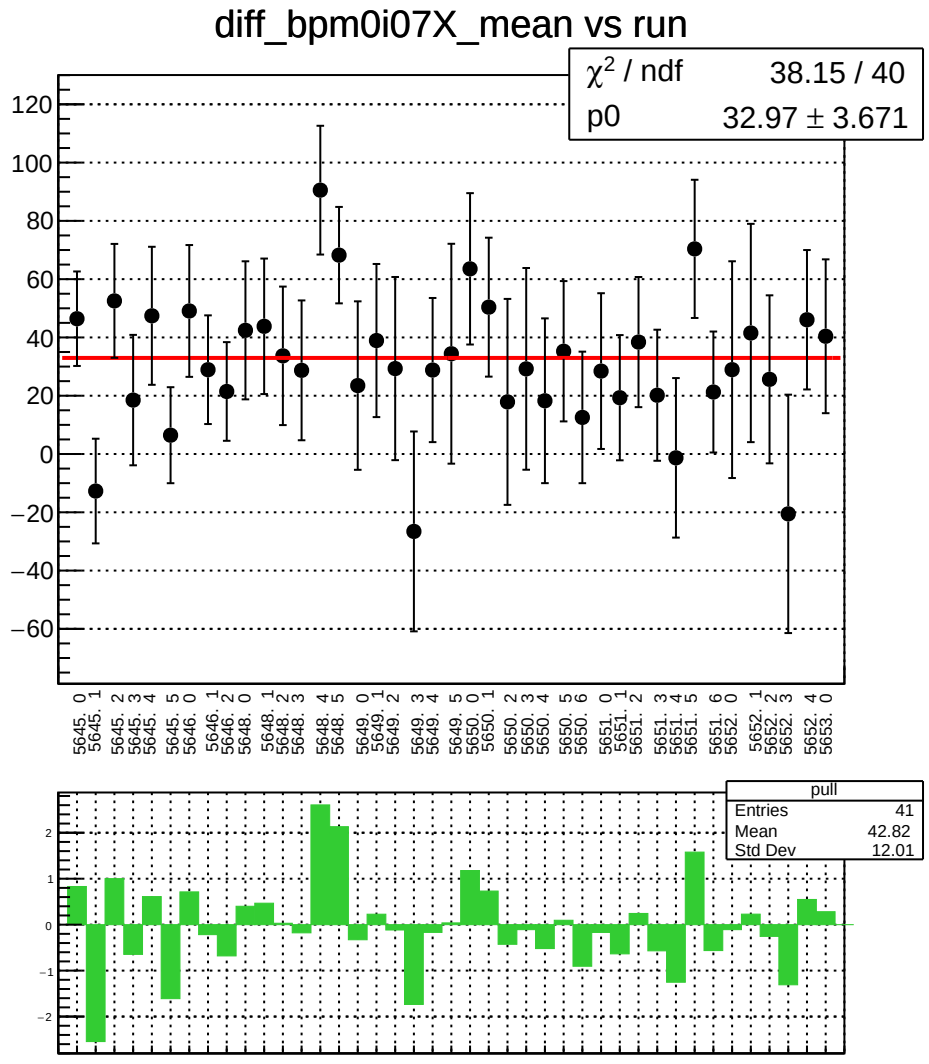

pull1D
Entries 41
Mean −0.02268
Std Dev 1.085

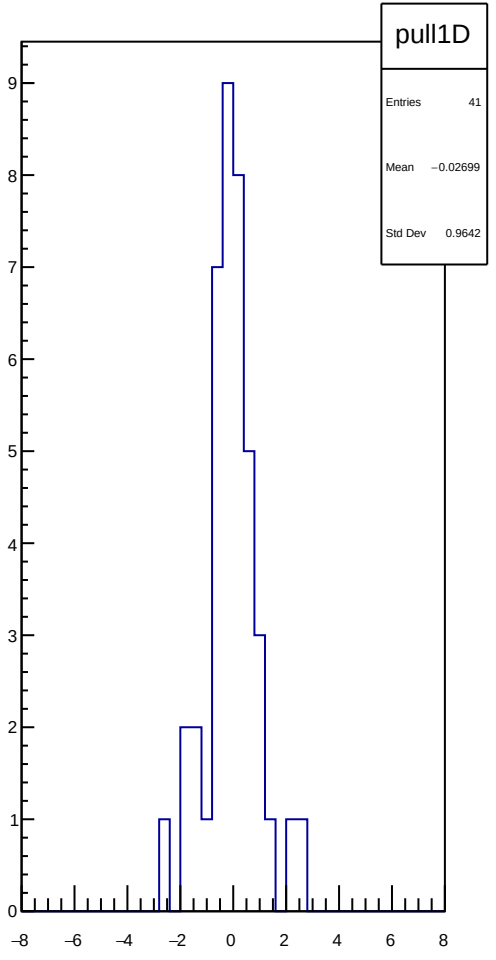

diff_bpm0i05X_rms vs run
χ² / ndf 930.5 / 40
p0 1999 ± 2.25
2150
2100
2050
2000
1950
1900
1850
1800
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

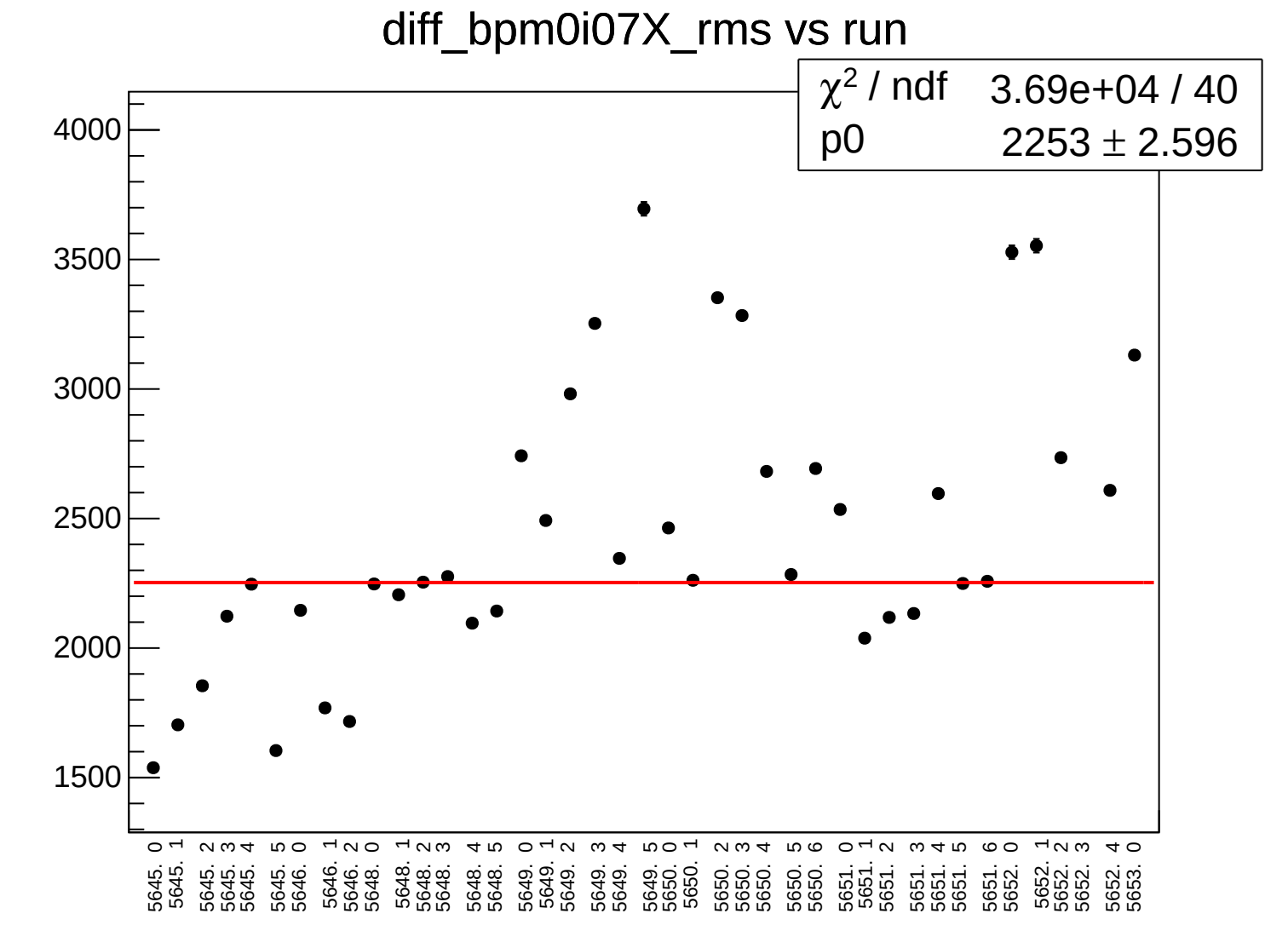

diff_bpm0i05Y_mean vs run
χ^2 / ndf 45.23 / 40
p0 22.15 ± 3.175
pull
Entries 41
Mean 61.77
Std Dev 0

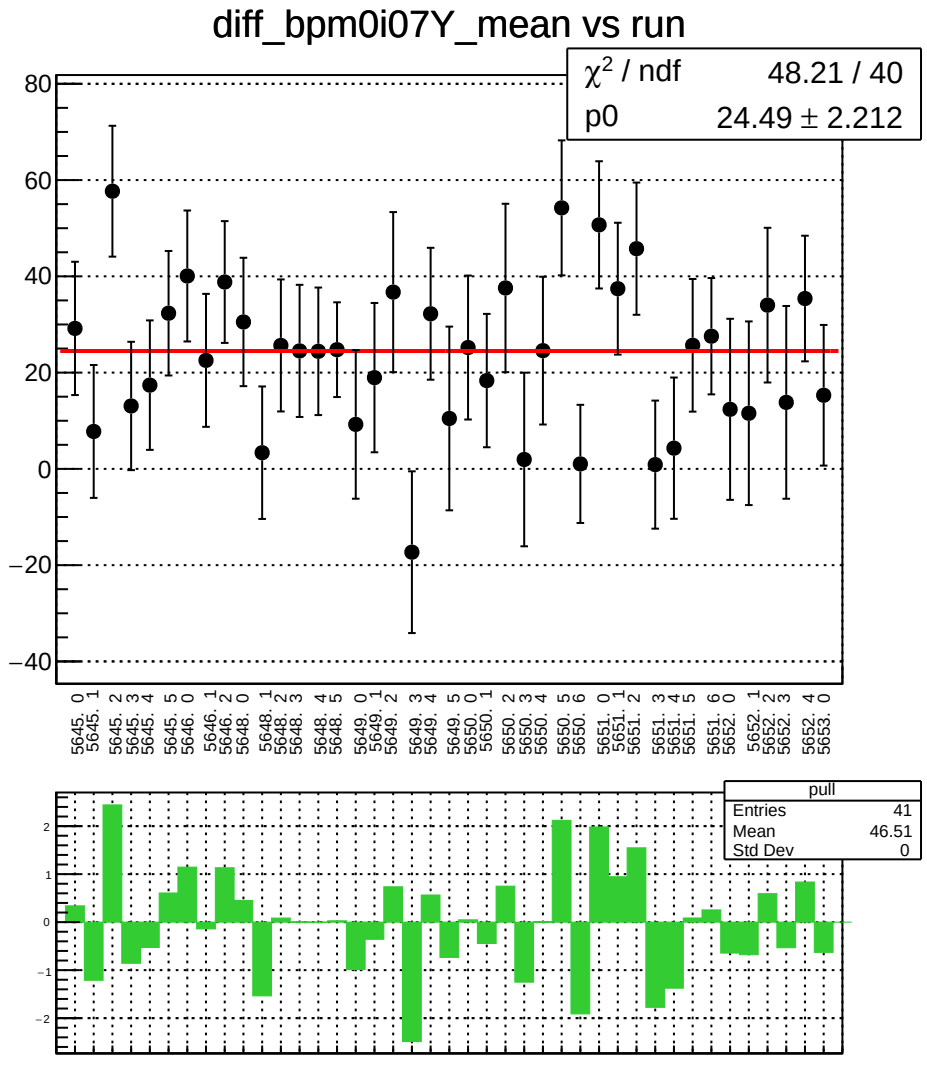

pull1D
Entries 41
Mean −0.005354
Std Dev 1.05

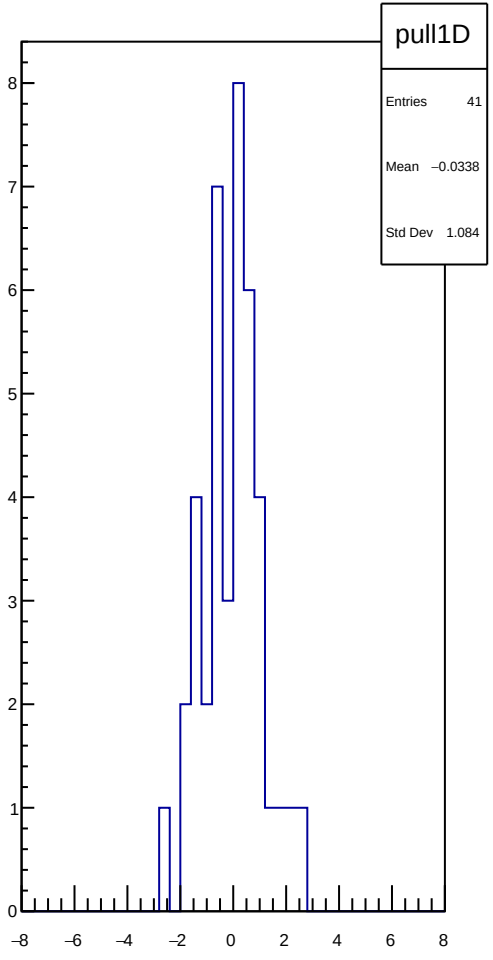

diff_bpm0i05Y_rms vs run
χ² / ndf 555.7 / 40
p0 1995 ± 2.245
2150
2100
2050
2000
1950
1900
1850
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

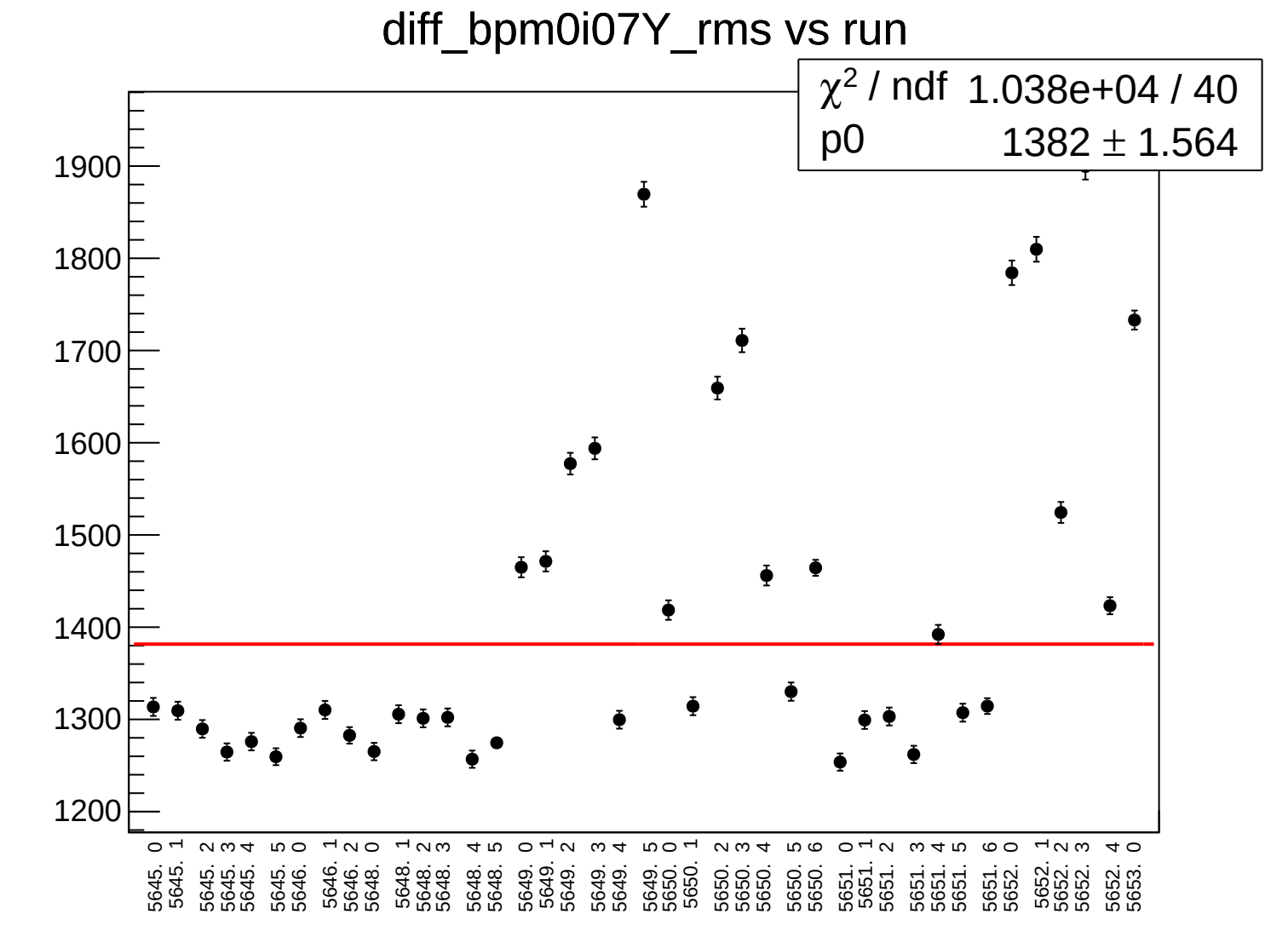

diff_bpm0i07X_mean vs run
χ² / ndf 38.15 / 40
p0 32.97 ± 3.671
pull
Entries 41
Mean 42.82
Std Dev 12.01

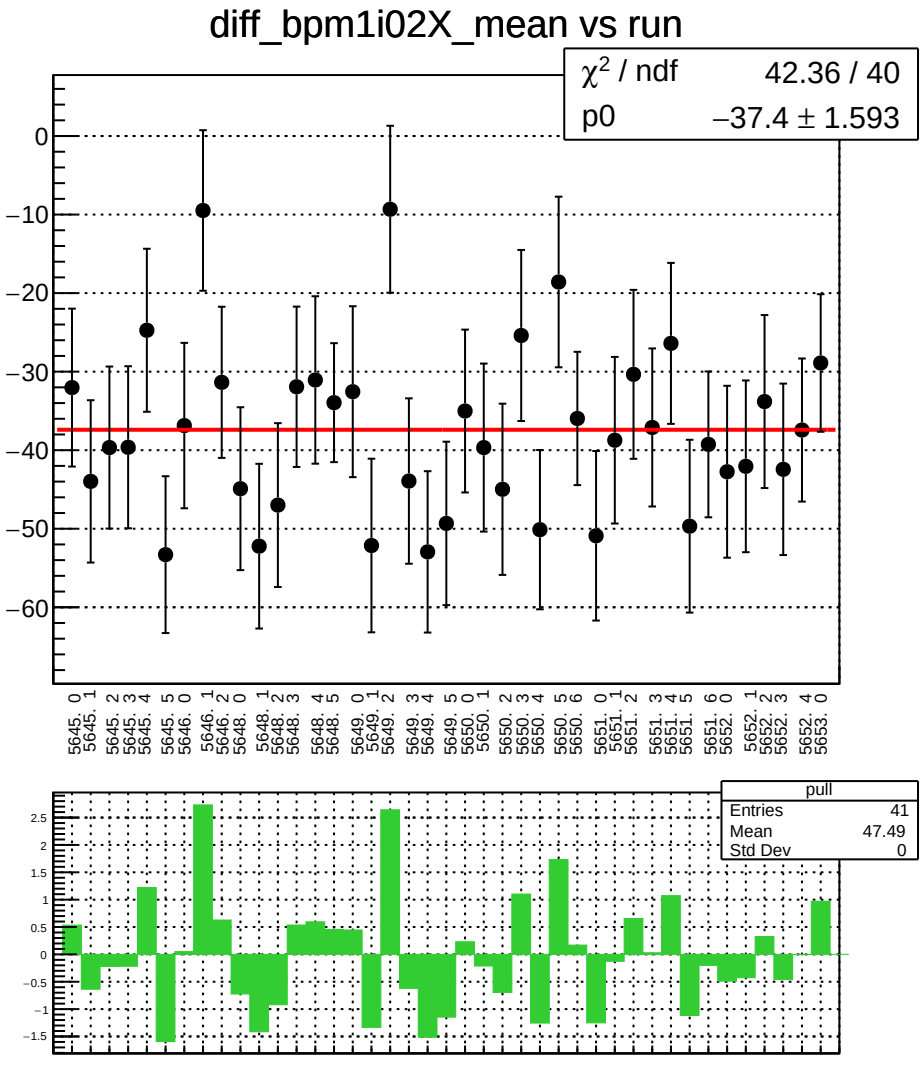

pull1D
Entries 41
Mean −0.02699
Std Dev 0.9642

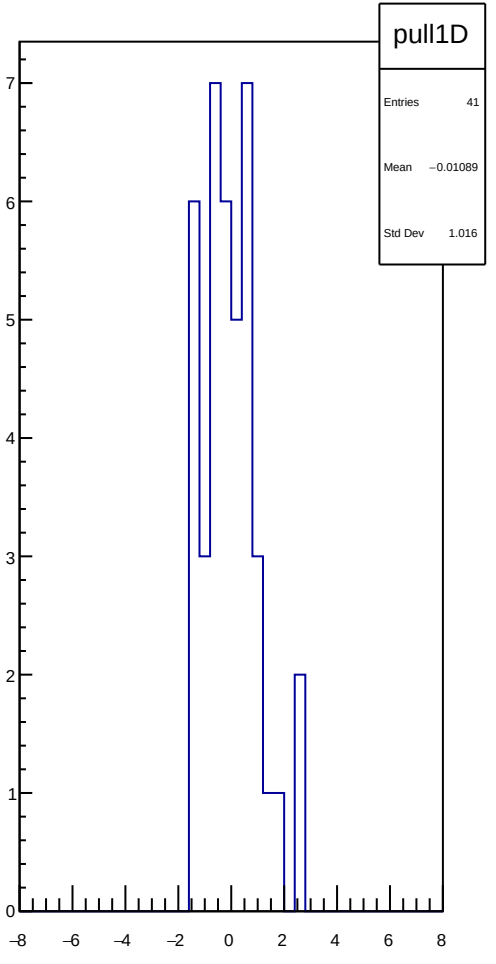

diff_bpm0i07X_rms vs run
χ² / ndf 3.69e+04 / 40
p0 2253 ± 2.596
4000
3500
3000
2500
2000
1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

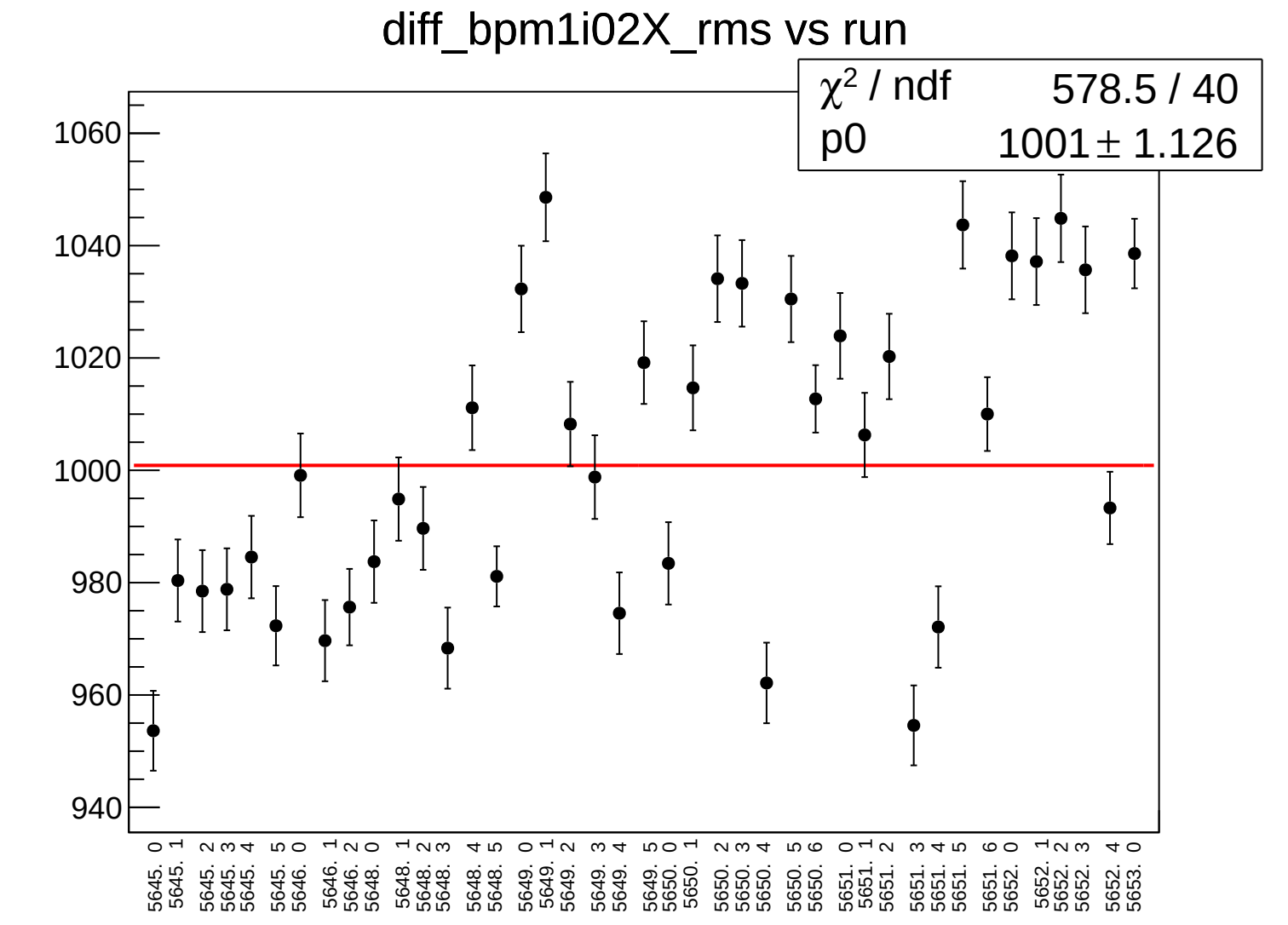

diff_bpm0i07Y_mean vs run
χ² / ndf 48.21 / 40
p0 24.49 ± 2.212
pull
Entries 41
Mean 46.51
Std Dev 0

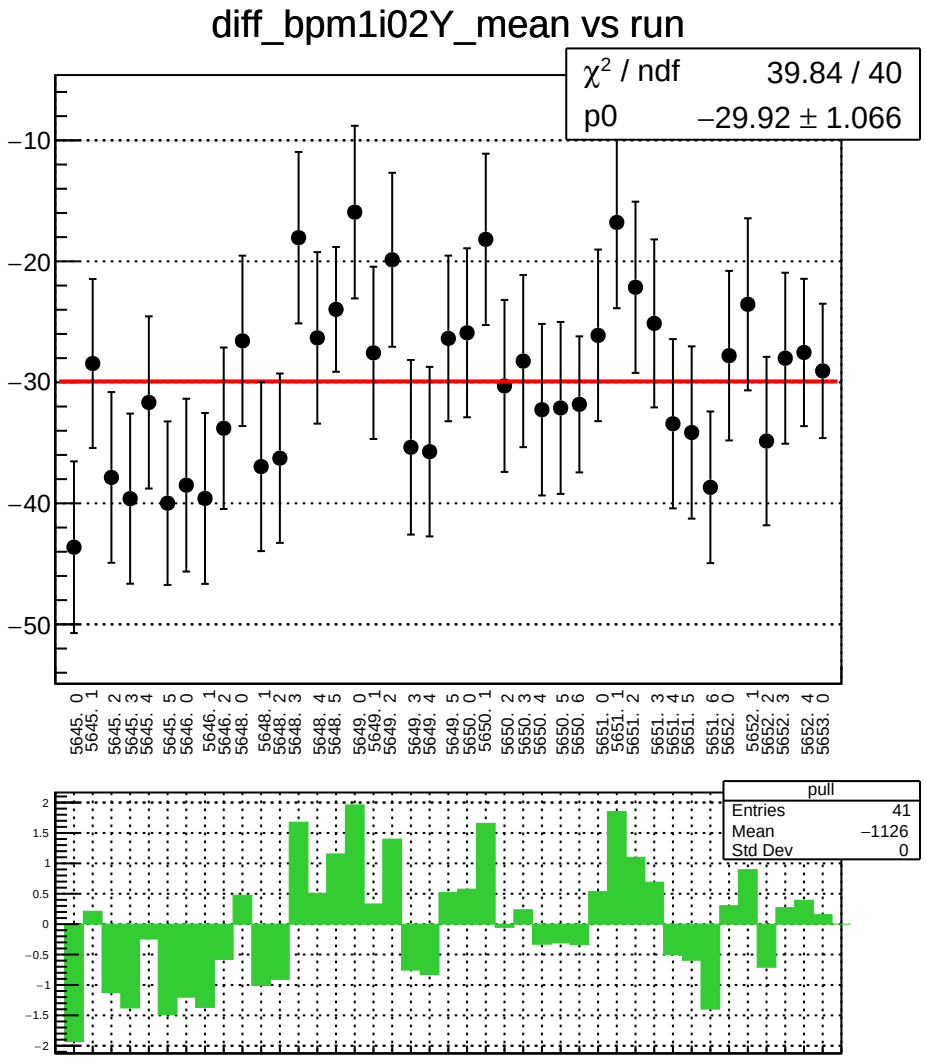

pull1D
Entries 41
Mean −0.0338
Std Dev 1.084

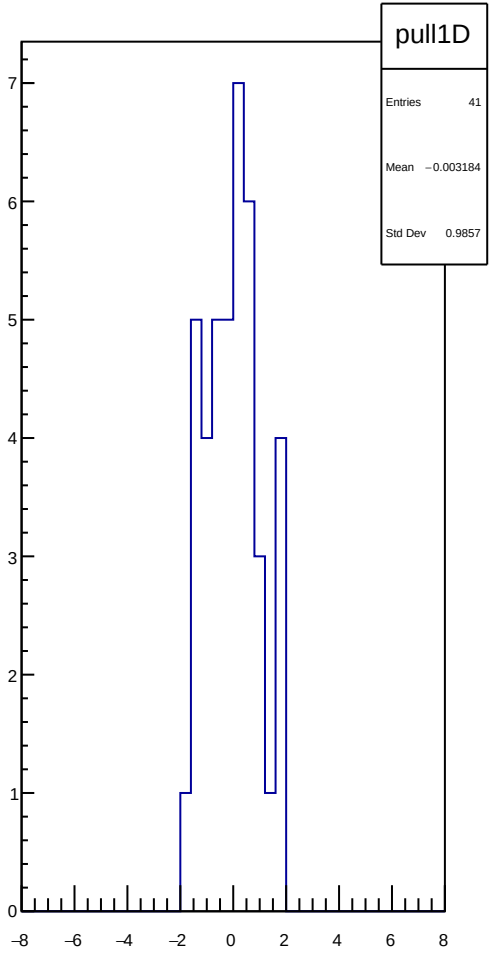

diff_bpm0i07Y_rms vs run
χ² / ndf 1.038e+04 / 40
p0 1382 ± 1.564
1900
1800
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

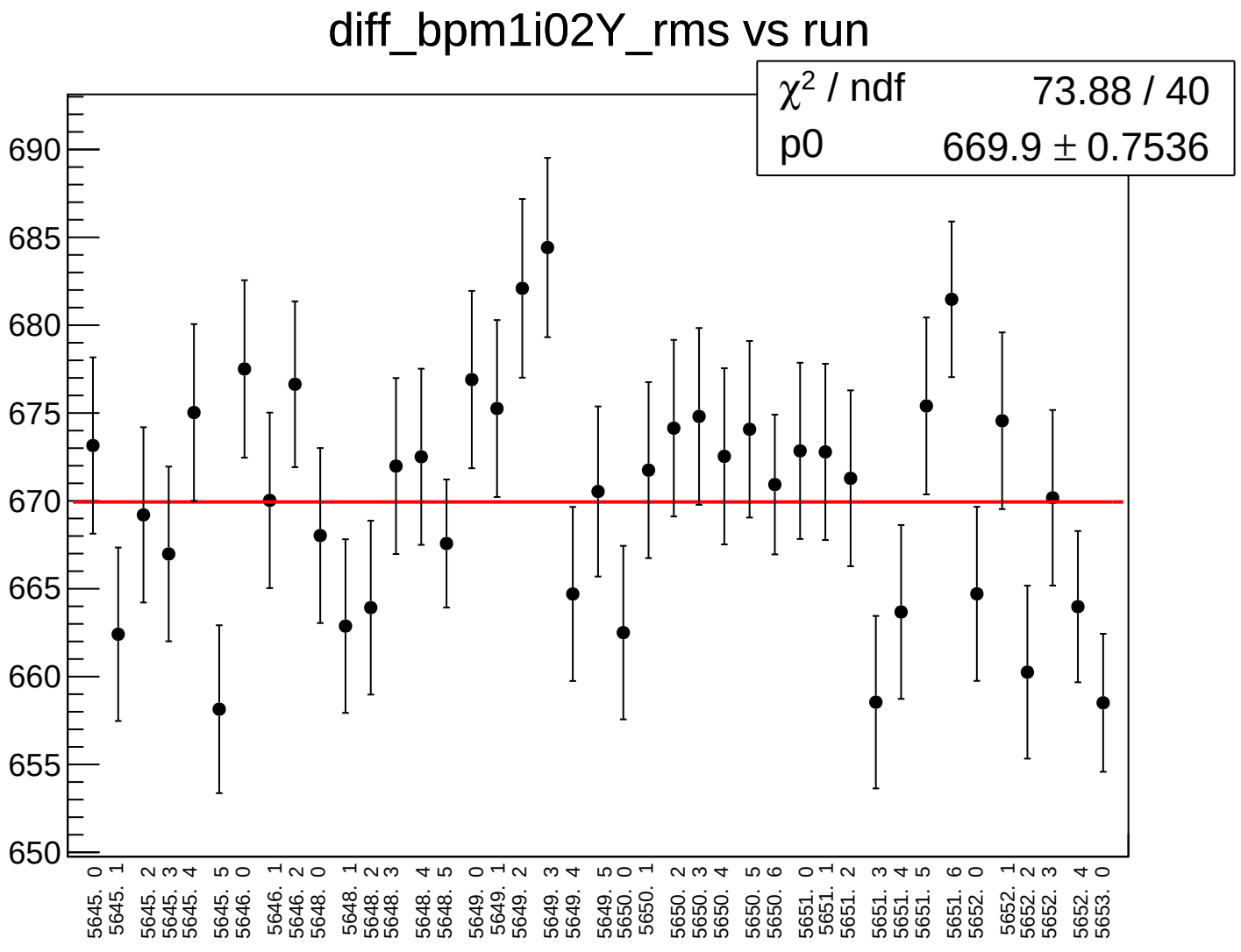

diff_bpm1i02X_mean vs run
χ² / ndf 42.36 / 40
p0 −37.4 ± 1.593
0
−10
−20
−30
−40
−50
−60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 47.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

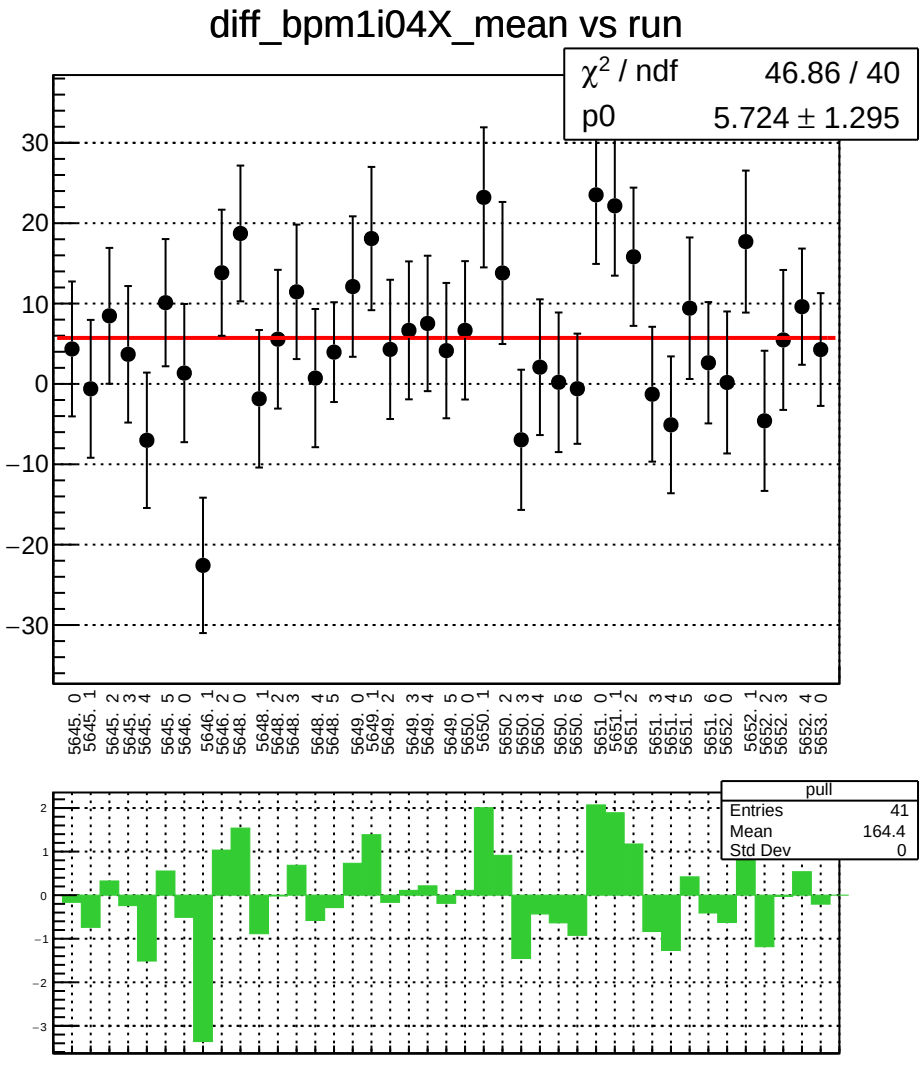

pull1D
Entries 41
Mean −0.01089
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

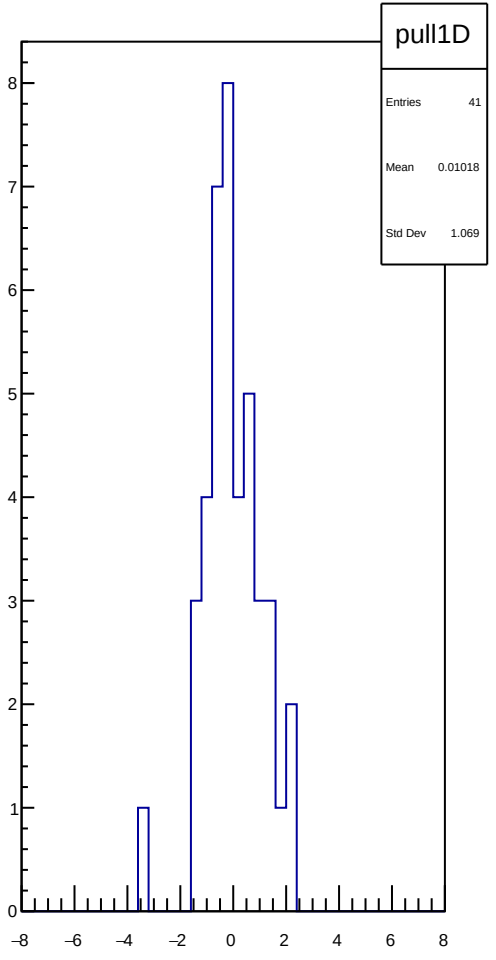

diff_bpm1i02X_rms vs run
χ² / ndf 578.5 / 40
p0 1001 ± 1.126
1060
1040
1020
1000
980
960
940
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

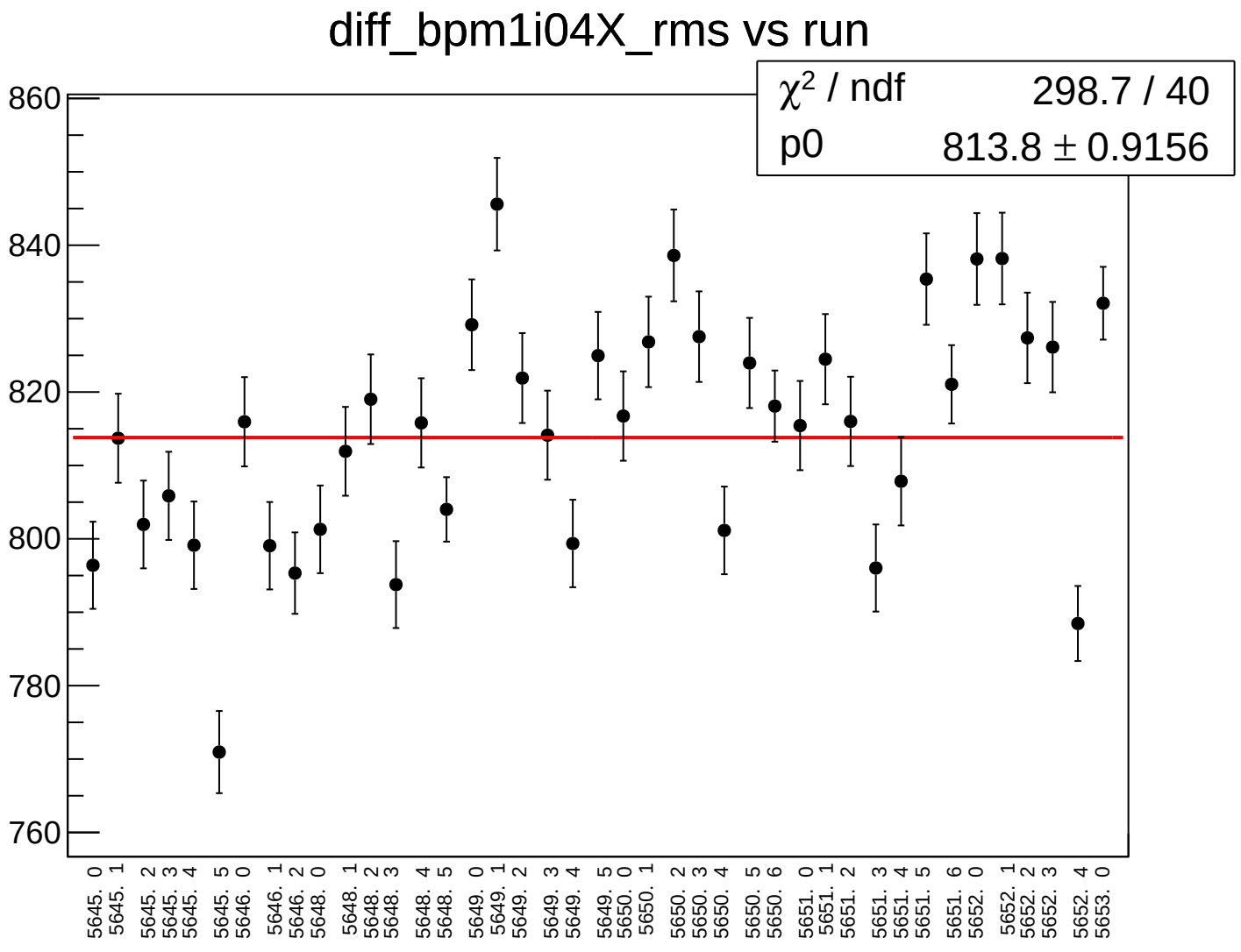

diff_bpm1i02Y_mean vs run
χ² / ndf 39.84 / 40
p0 −29.92 ± 1.066
−10
−20
−30
−40
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1126
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

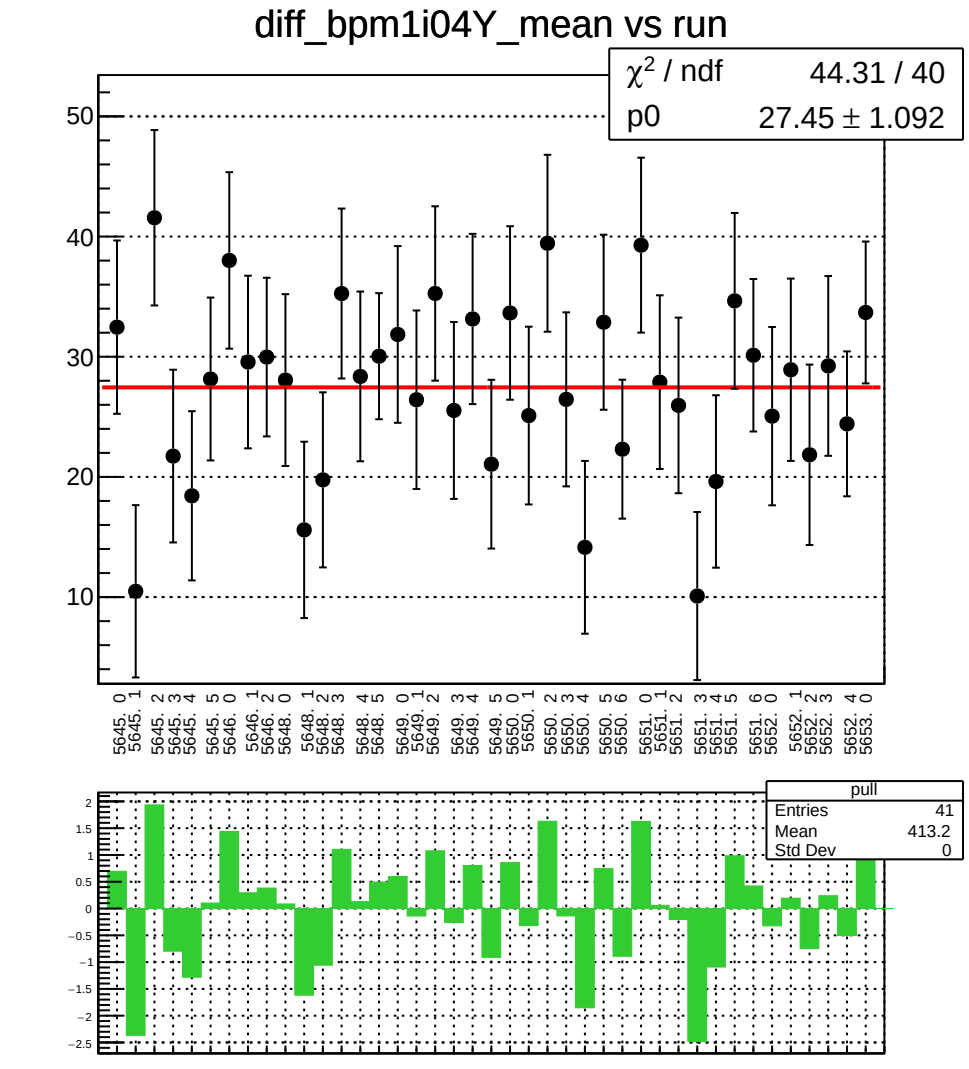

pull1D
Entries 41
Mean −0.003184
Std Dev 0.9857
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

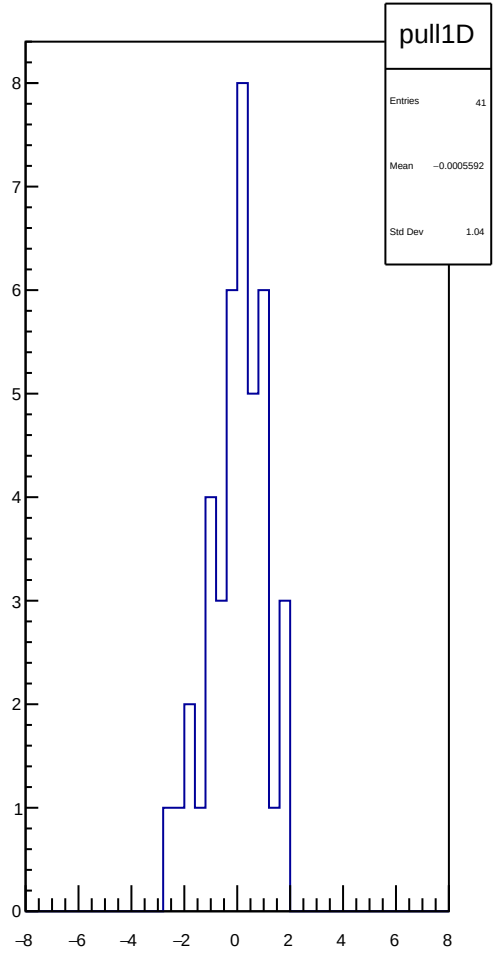

diff_bpm1i02Y_rms vs run
χ² / ndf 73.88 / 40
p0 669.9 ± 0.7536
690
685
680
675
670
665
660
655
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

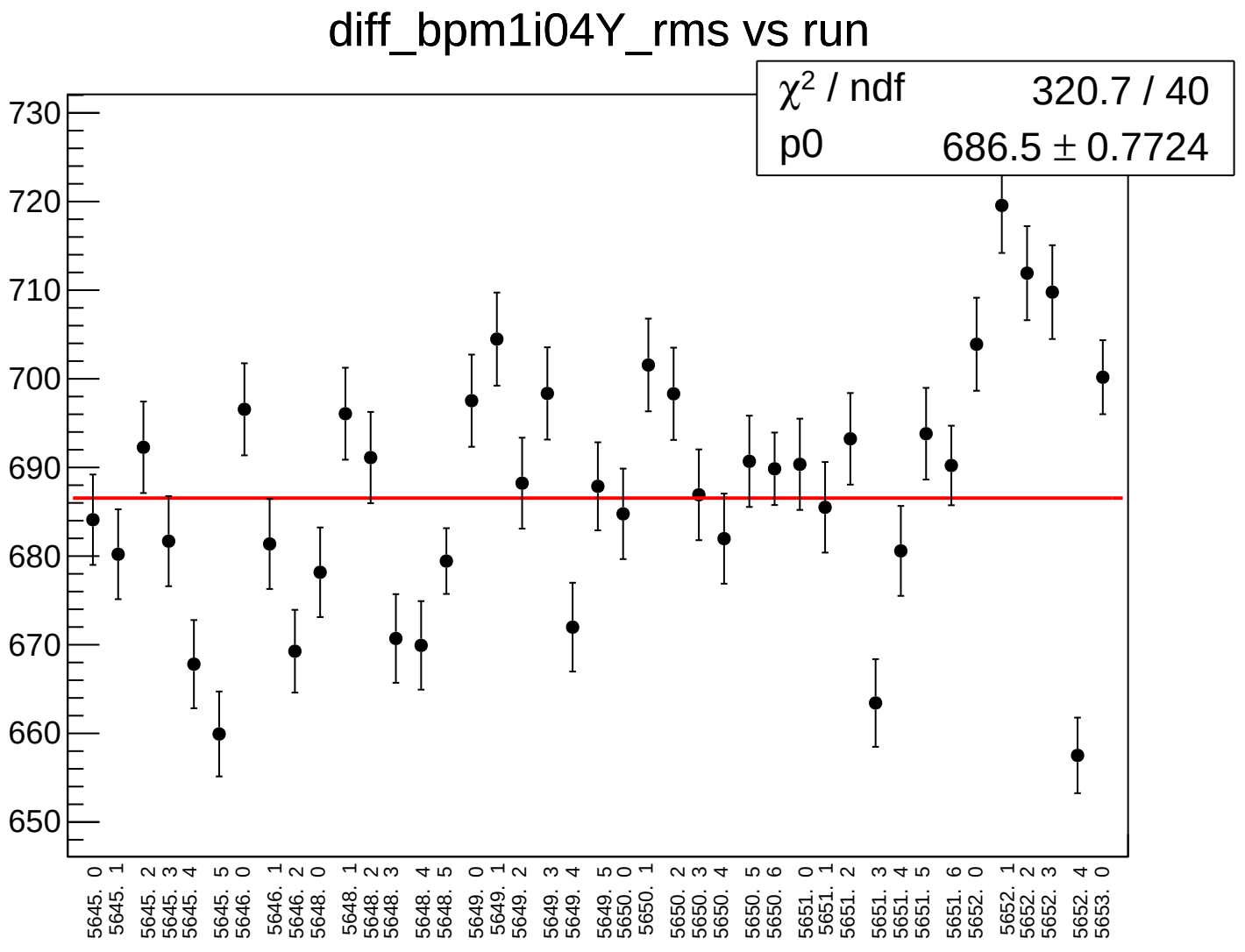

diff_bpm1i04X_mean vs run
χ² / ndf 46.86 / 40
p0 5.724 ± 1.295
pull
Entries 41
Mean 164.4
Std Dev 0

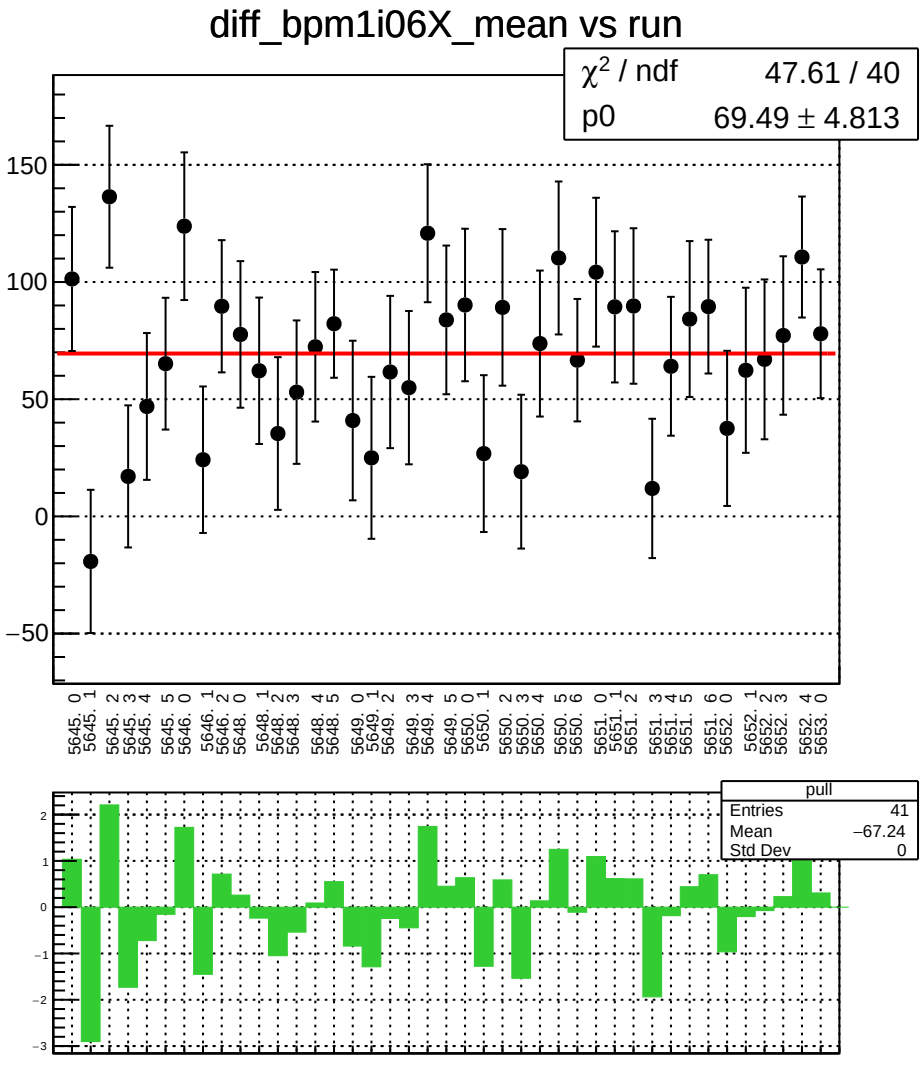

pull1D
Entries 41
Mean 0.01018
Std Dev 1.069

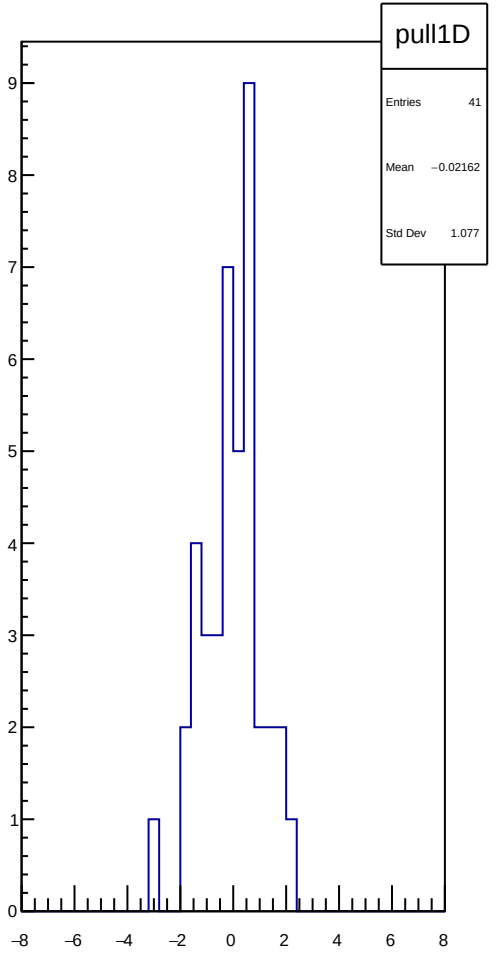

diff_bpm1i04X_rms vs run
χ² / ndf 298.7 / 40
p0 813.8 ± 0.9156
860
840
820
800
780
760
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

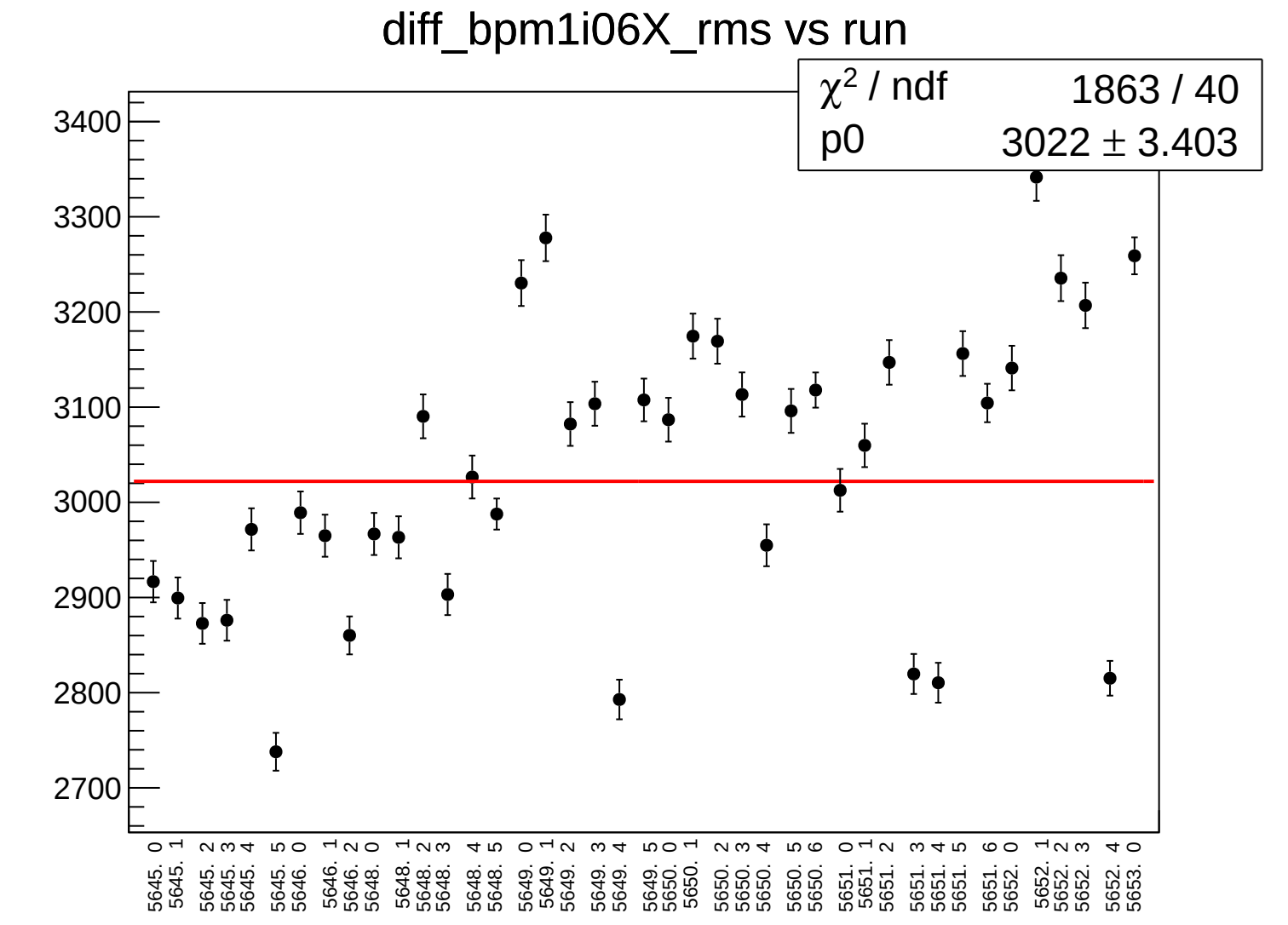

diff_bpm1i04Y_mean vs run
χ^2 / ndf 44.31 / 40
p0 27.45 ± 1.092
pull
Entries 41
Mean 413.2
Std Dev 0

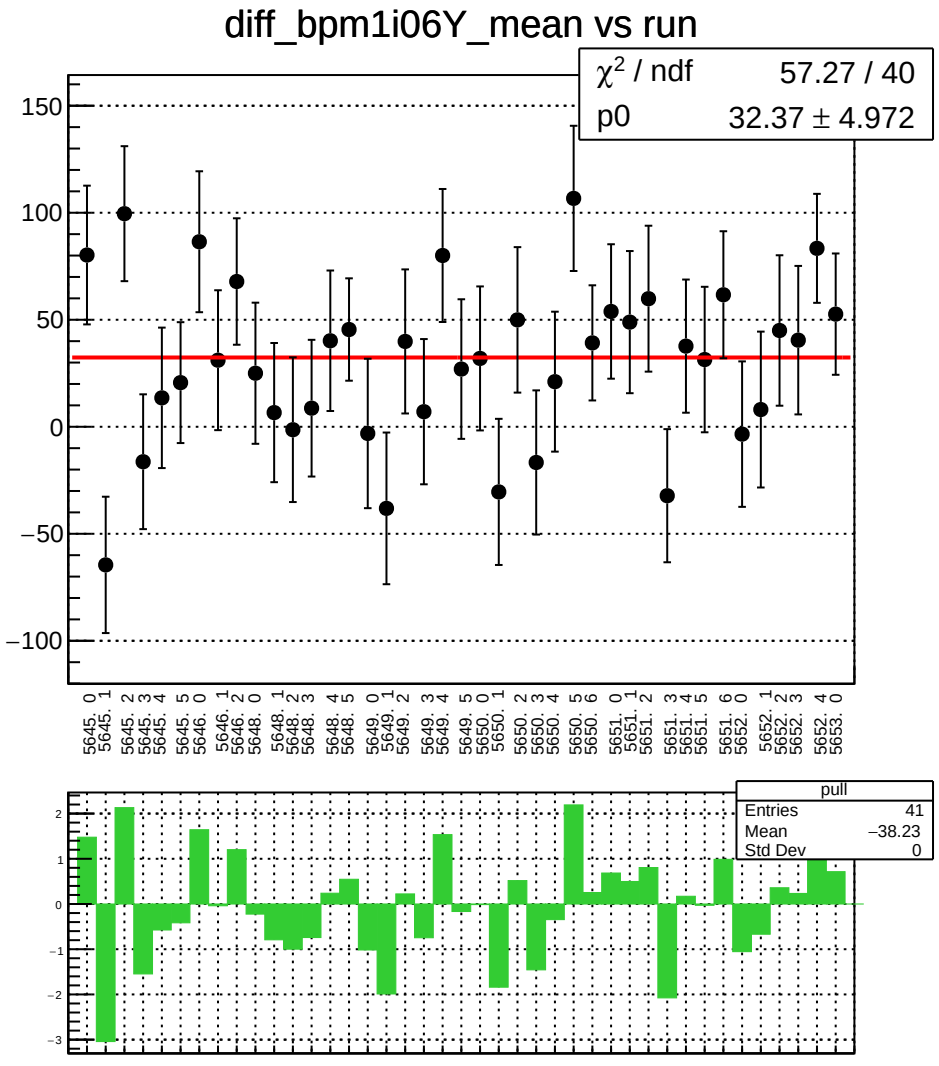

pull1D
Entries 41
Mean −0.0005592
Std Dev 1.04

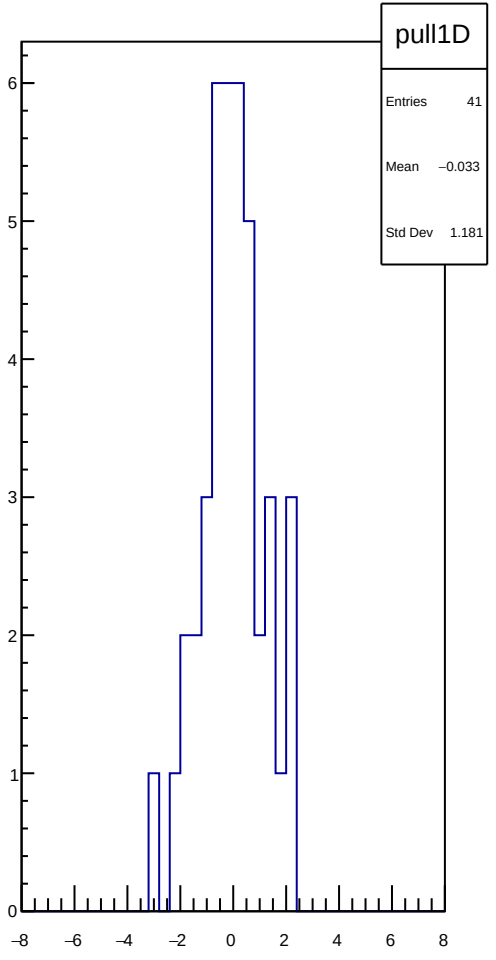

diff_bpm1i04Y_rms vs run
χ² / ndf 320.7 / 40
p0 686.5 ± 0.7724
730
720
710
700
690
680
670
660
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

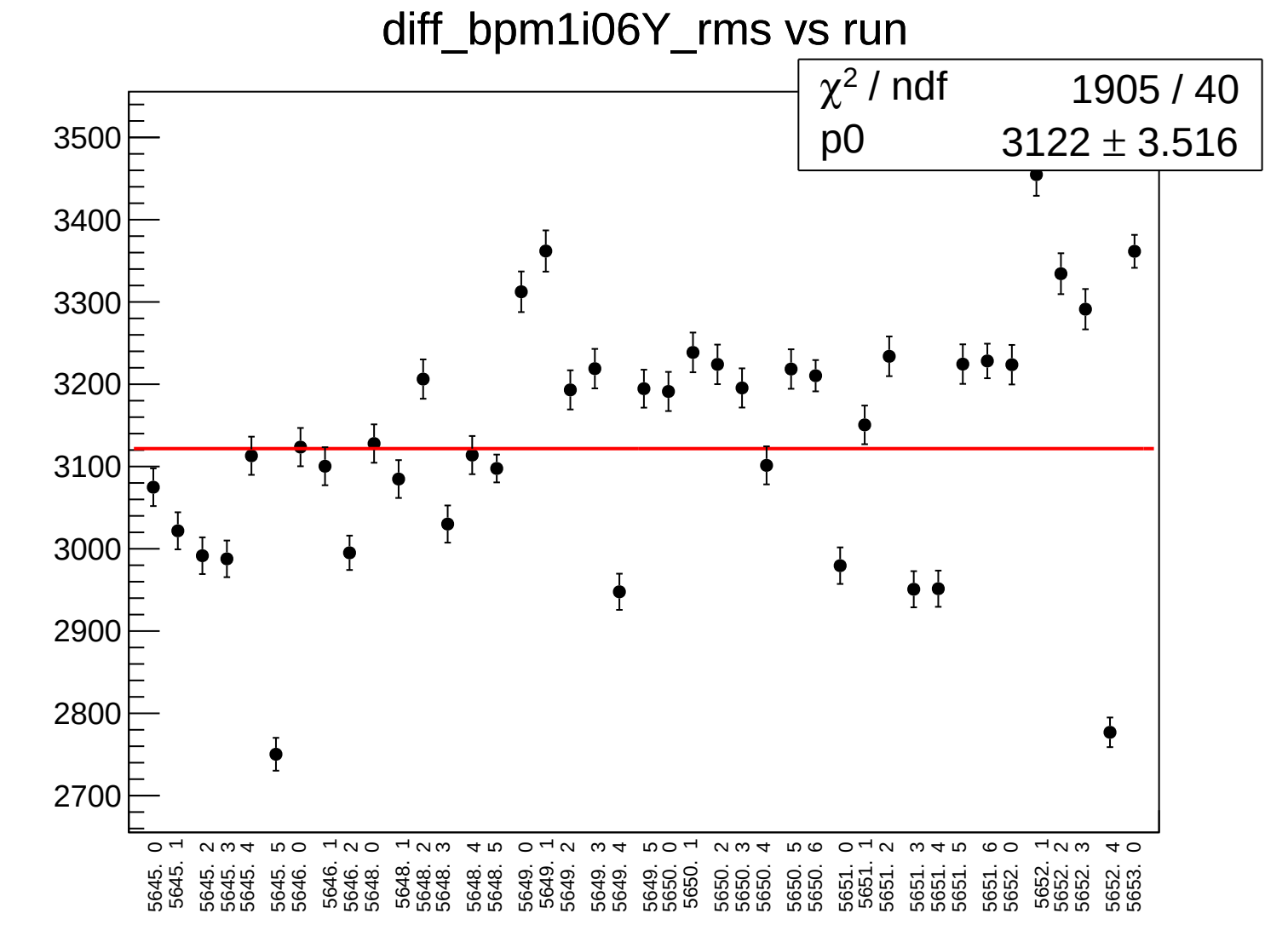

diff_bpm1i06X_mean vs run
χ² / ndf 47.61 / 40
p0 69.49 ± 4.813
150
100
50
0
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.24
Std Dev 0
2
1
0
−1
−2
−3

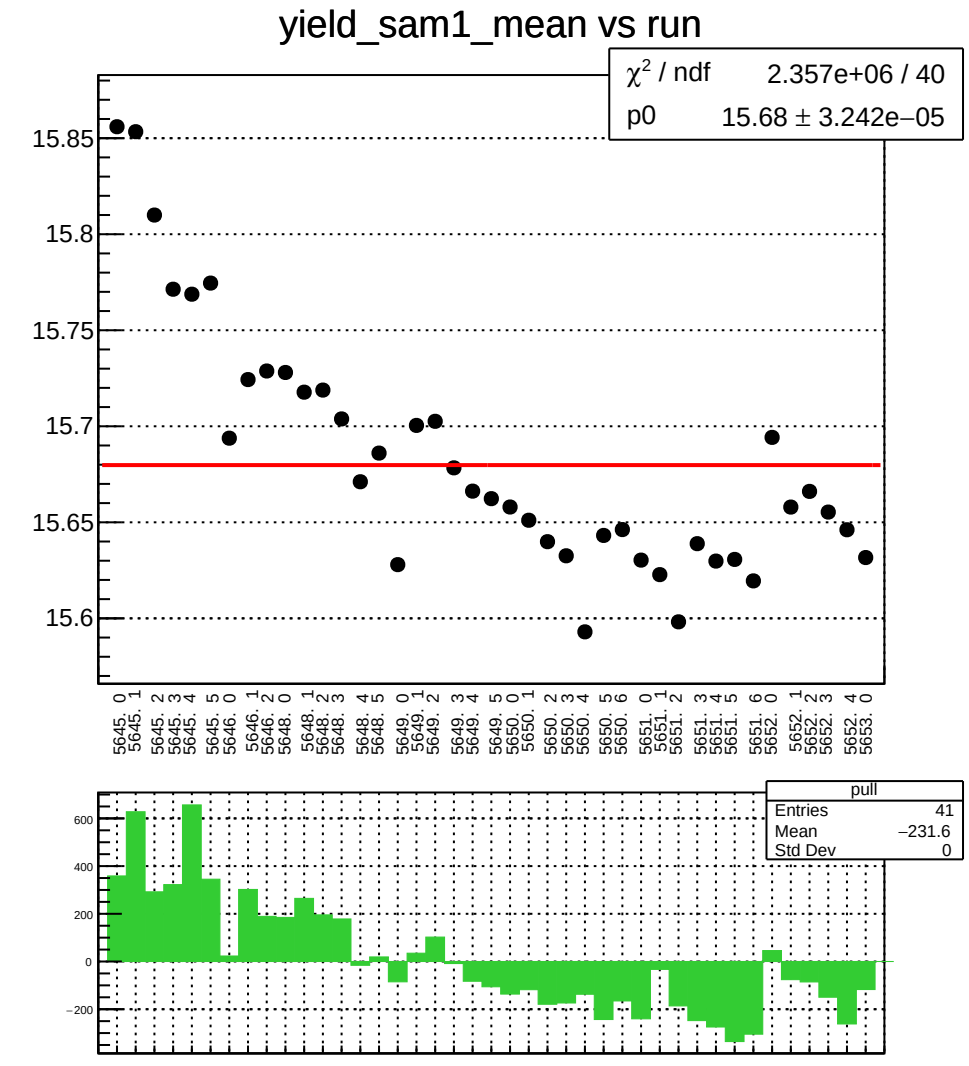

pull1D
Entries 41
Mean −0.02162
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

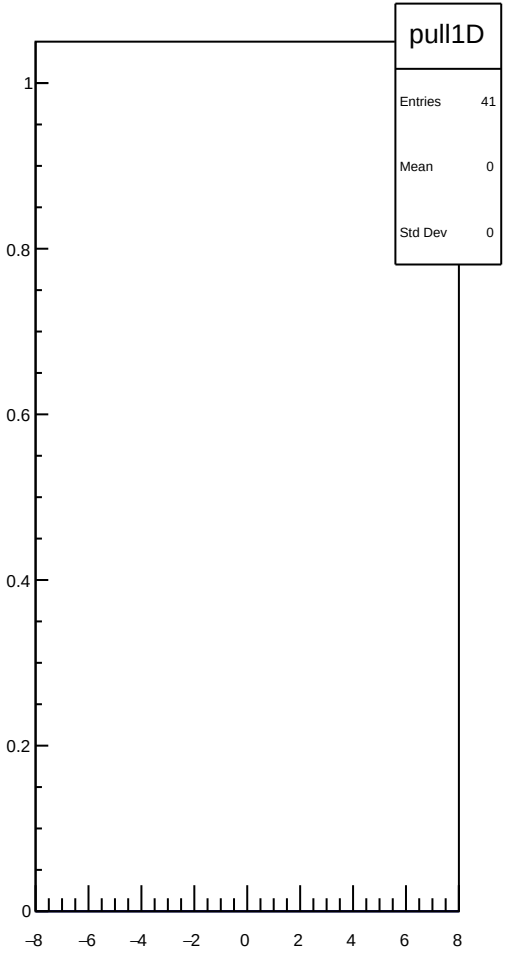

diff_bpm1i06X_rms vs run
χ² / ndf 1863 / 40
p0 3022 ± 3.403
3400
3300
3200
3100
3000
2900
2800
2700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

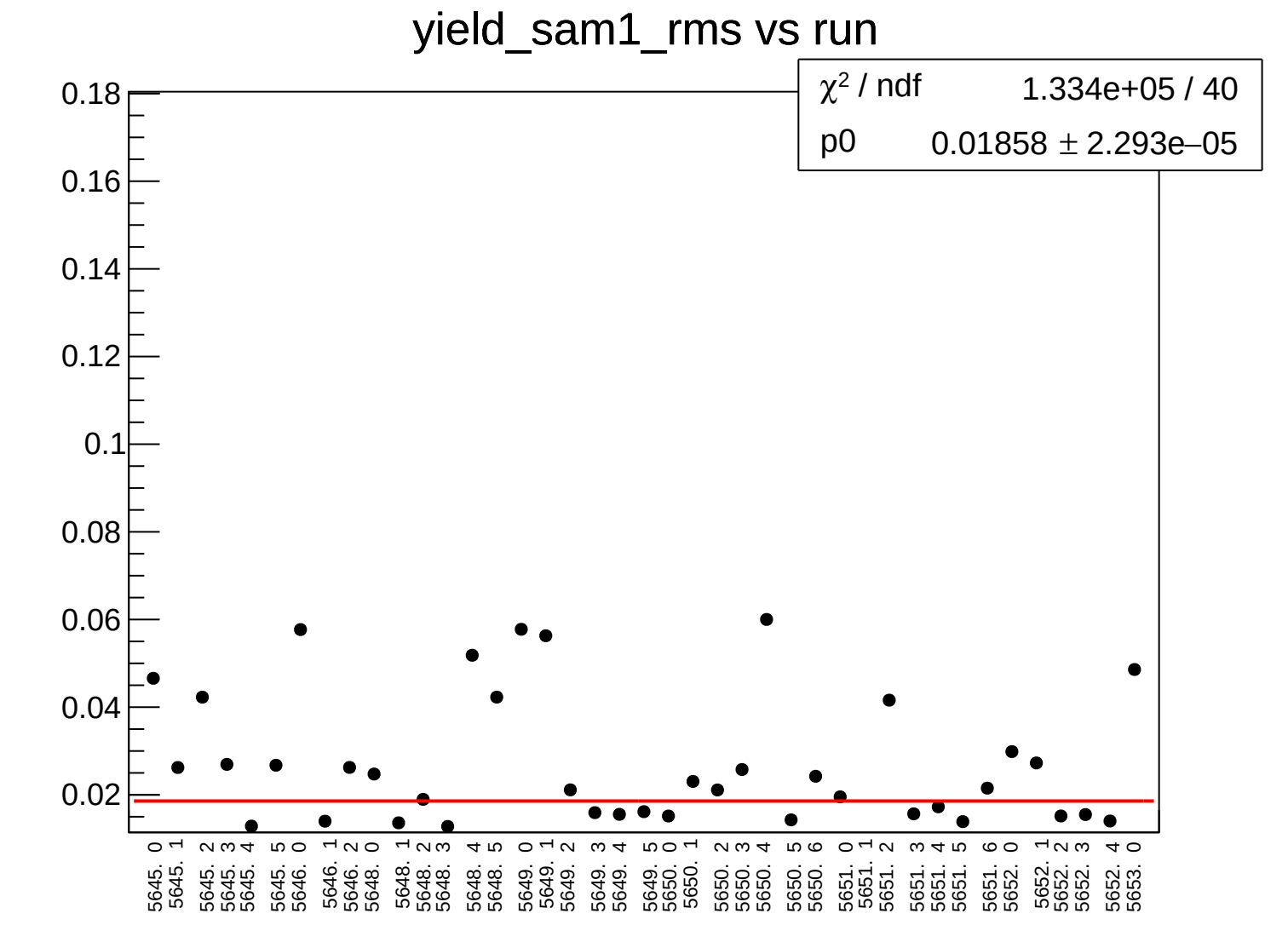

diff_bpm1i06Y_mean vs run
χ² / ndf 57.27 / 40
p0 32.37 ± 4.972
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −38.23
Std Dev 0
2
1
0
−1
−2
−3

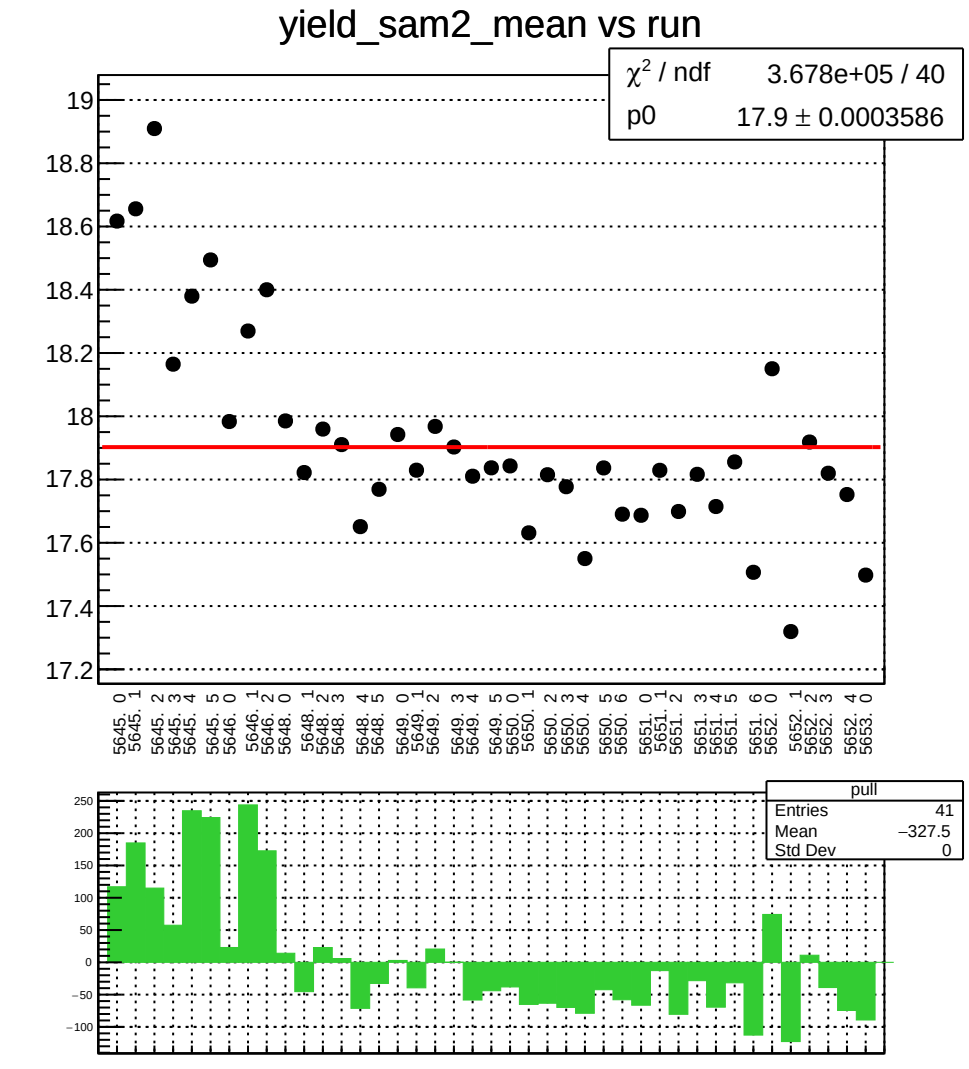

pull1D
Entries 41
Mean −0.033
Std Dev 1.181
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

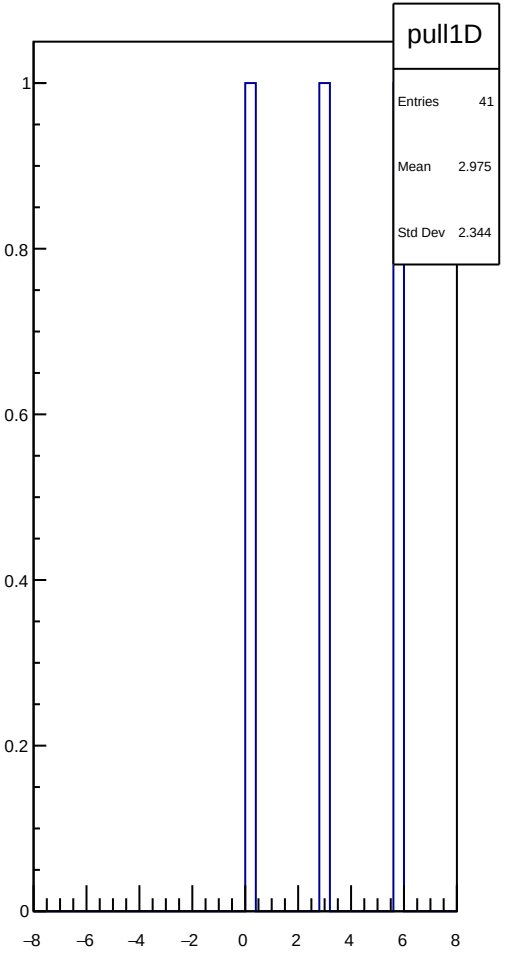

diff_bpm1i06Y_rms vs run
χ² / ndf 1905 / 40
p0 3122 ± 3.516
3500
3400
3300
3200
3100
3000
2900
2800
2700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

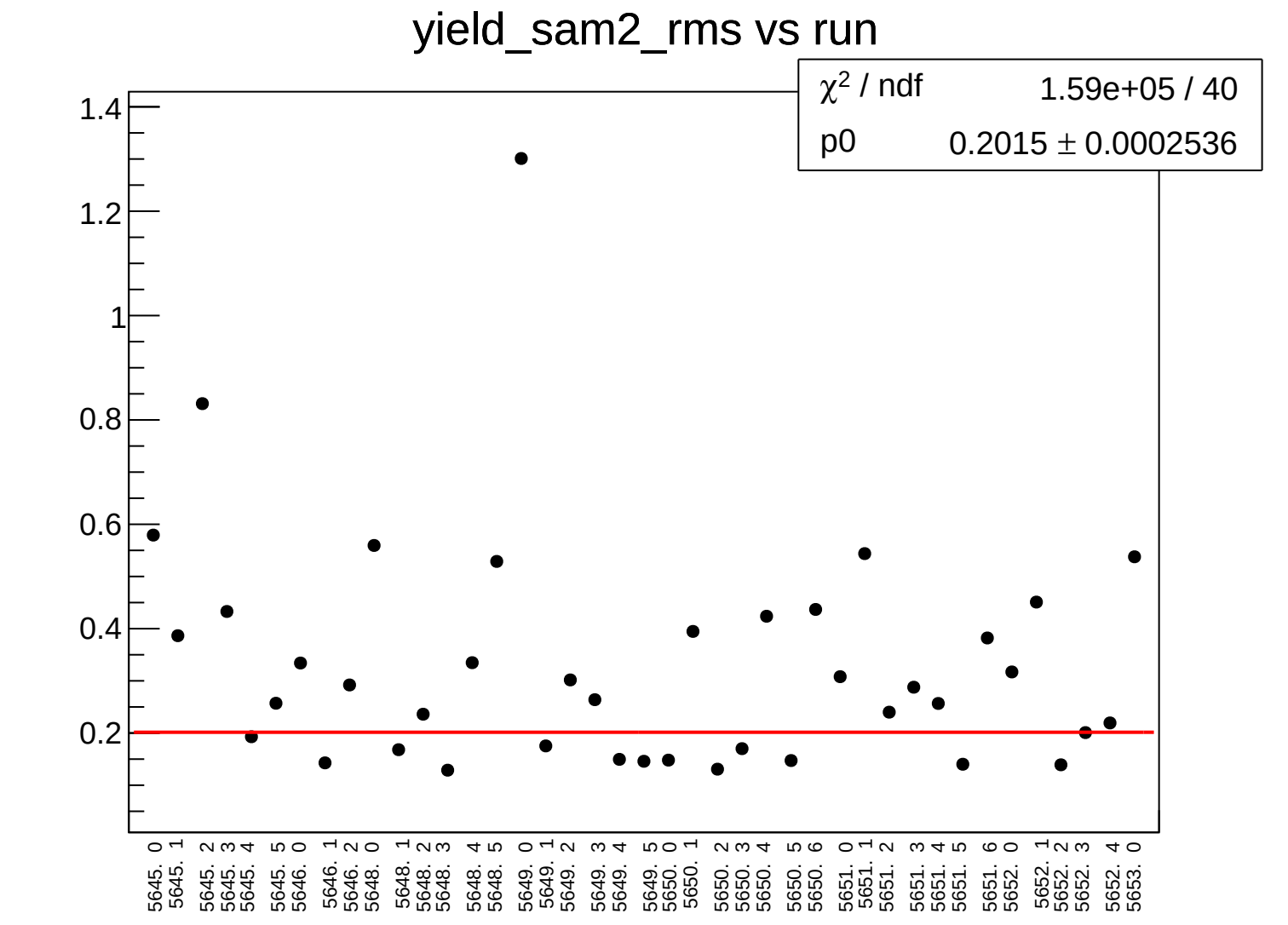

yield_sam1_mean vs run
χ² / ndf 2.357e+06 / 40
p0 15.68 ± 3.242e−05
15.85
15.8
15.75
15.7
15.65
15.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −231.6
Std Dev 0
600
400
200
0
−200

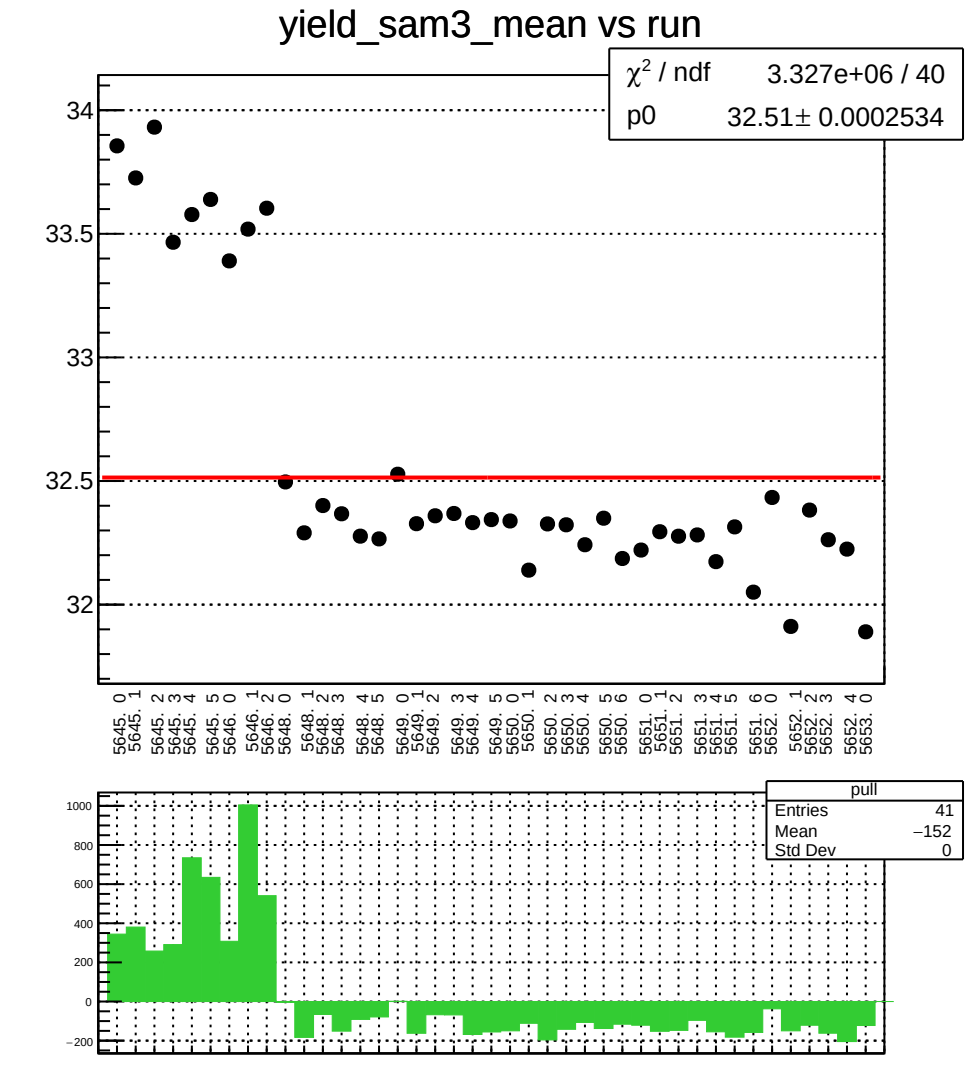

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

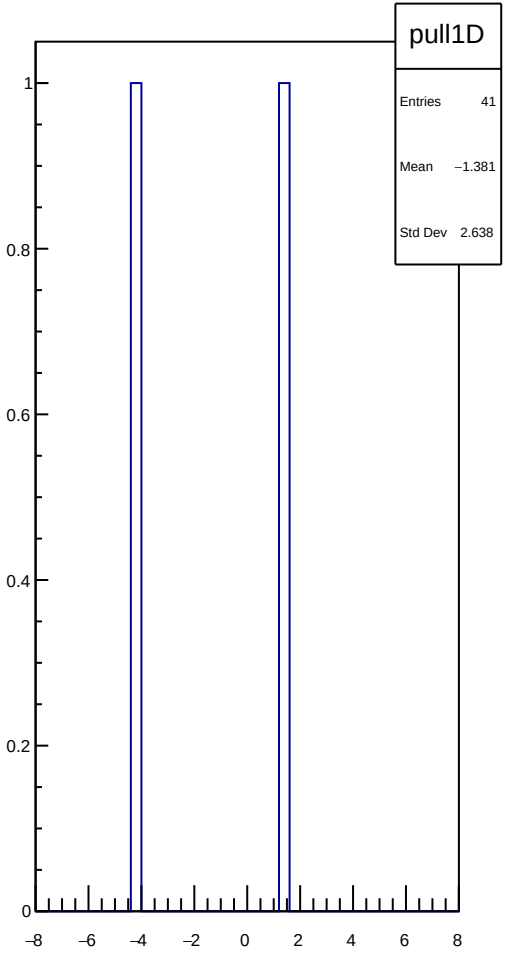

yield_sam1_rms vs run
χ² / ndf 1.334e+05 / 40
p0 0.01858 ± 2.293e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

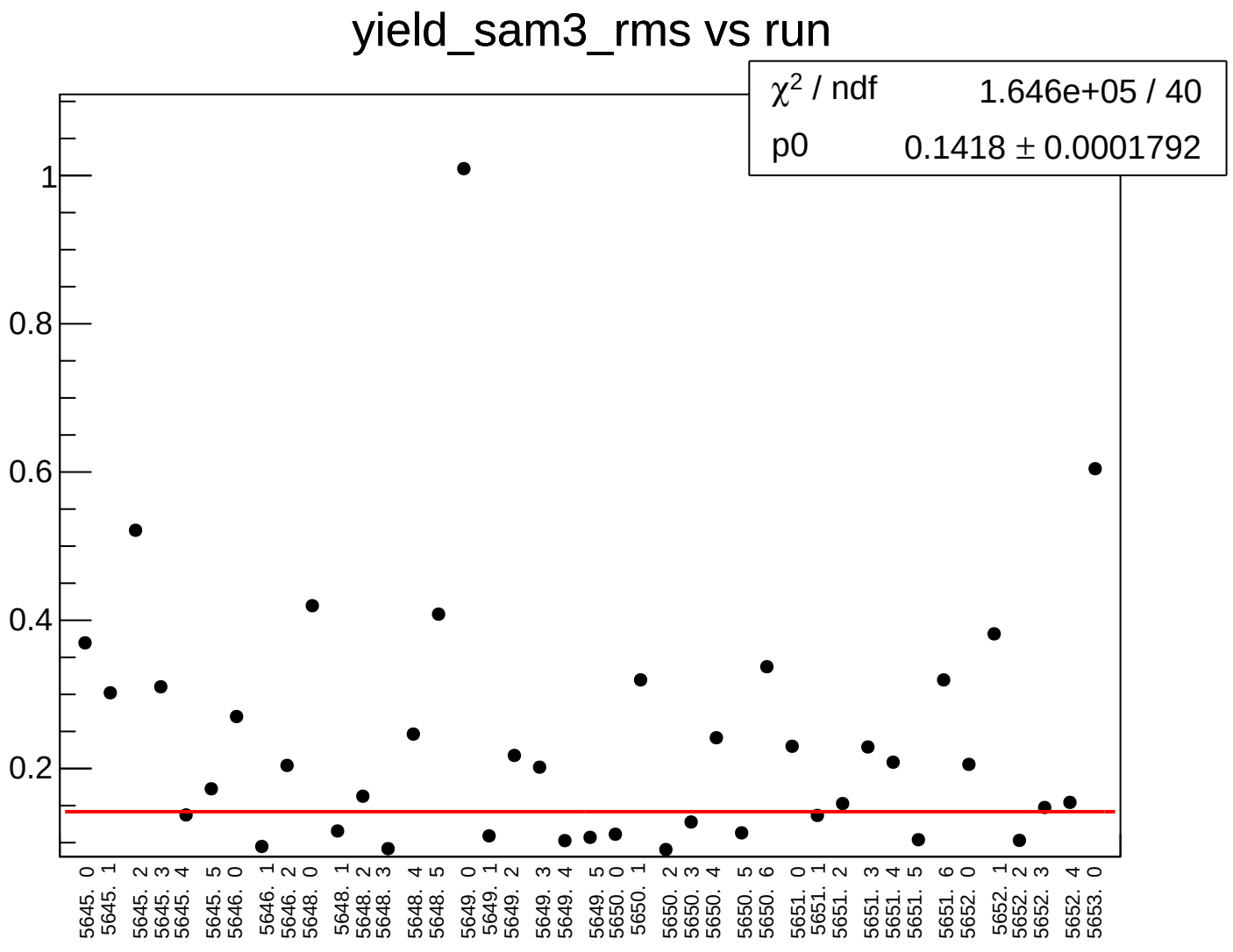

yield_sam2_mean vs run
χ² / ndf 3.678e+05 / 40
p0 17.9 ± 0.0003586
pull
Entries 41
Mean −327.5
Std Dev 0

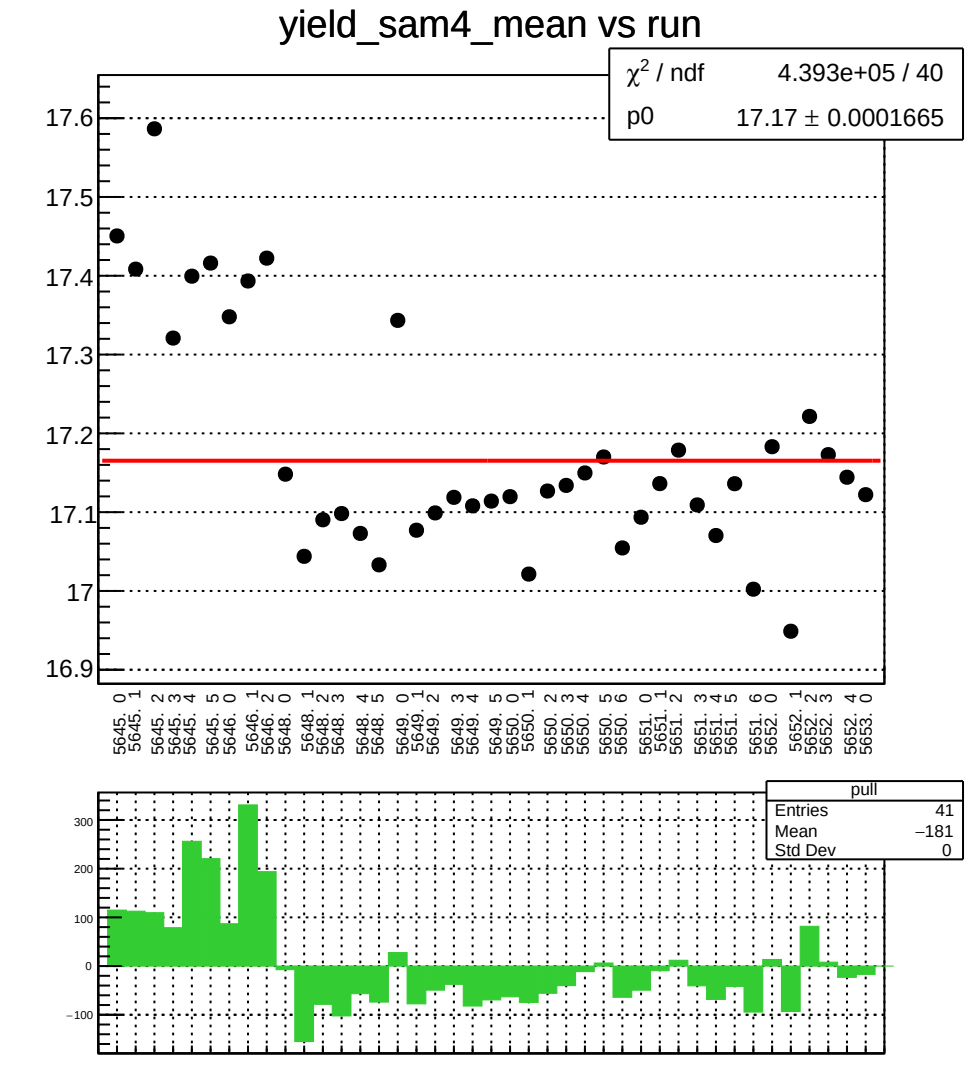

pull1D
Entries 41
Mean 2.975
Std Dev 2.344

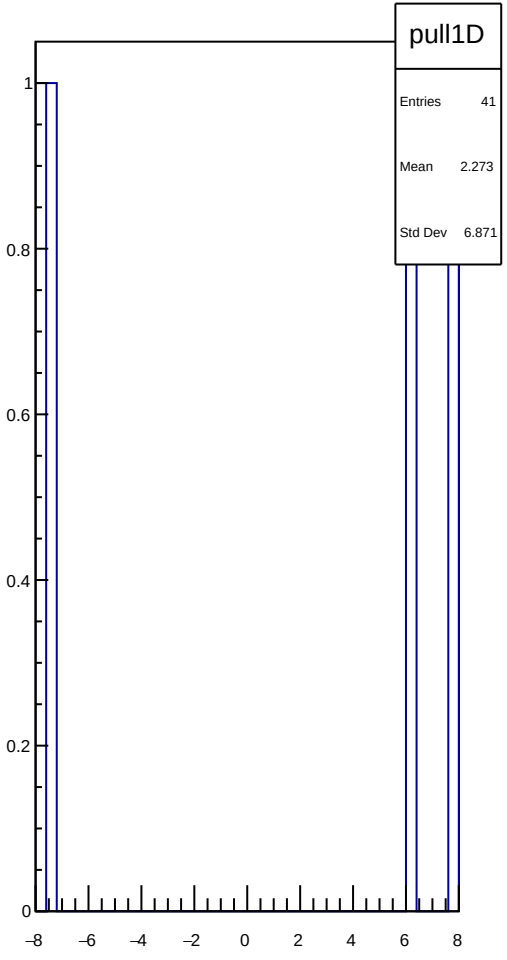

yield_sam2_rms vs run
χ² / ndf 1.59e+05 / 40
p0 0.2015 ± 0.0002536
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

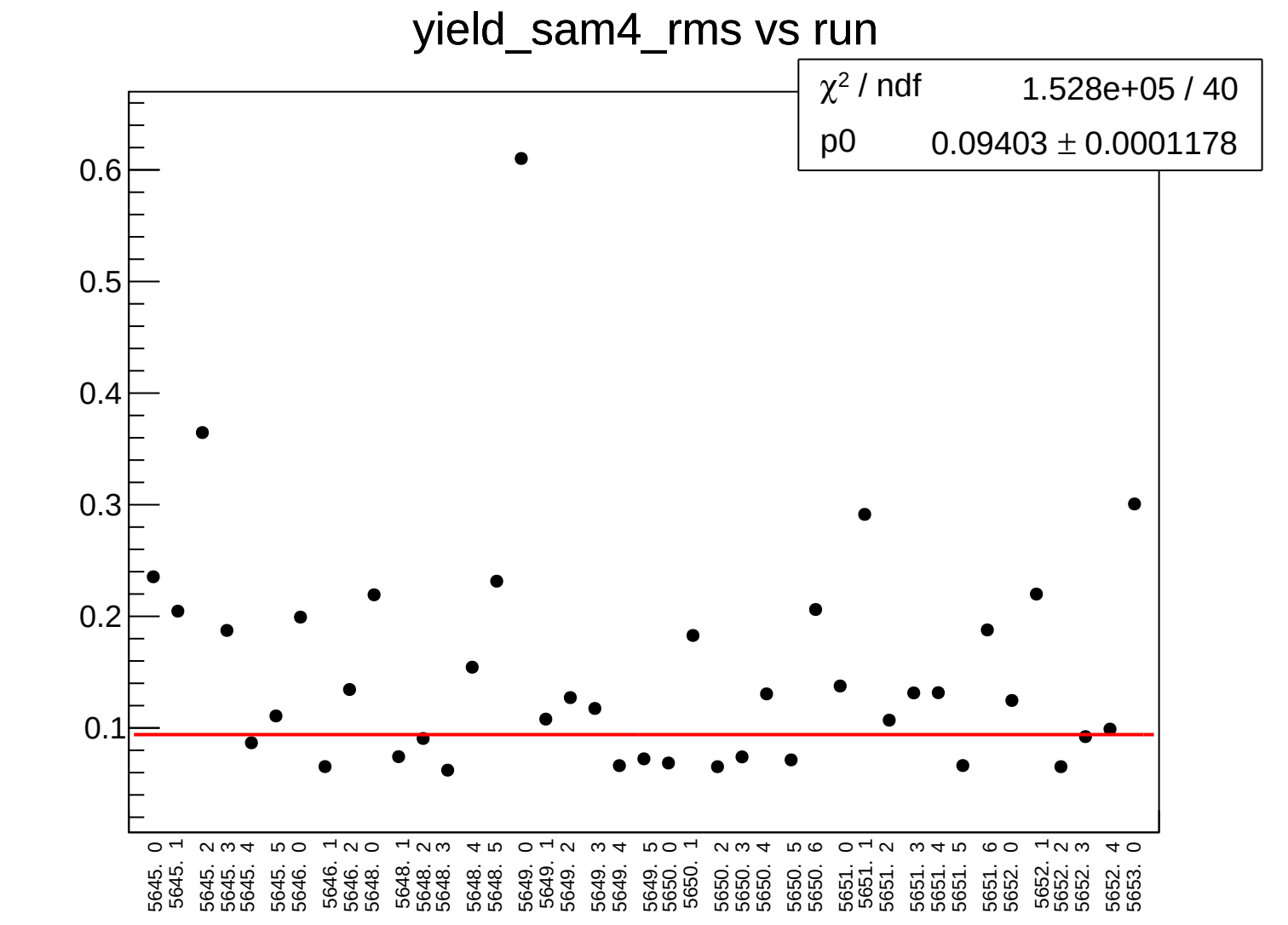

yield_sam3_mean vs run
χ² / ndf 3.327e+06 / 40
p0 32.51± 0.0002534
34
33.5
33
32.5
32
pull
Entries 41
Mean −152
Std Dev 0
1000
800
600
400
200
0
−200

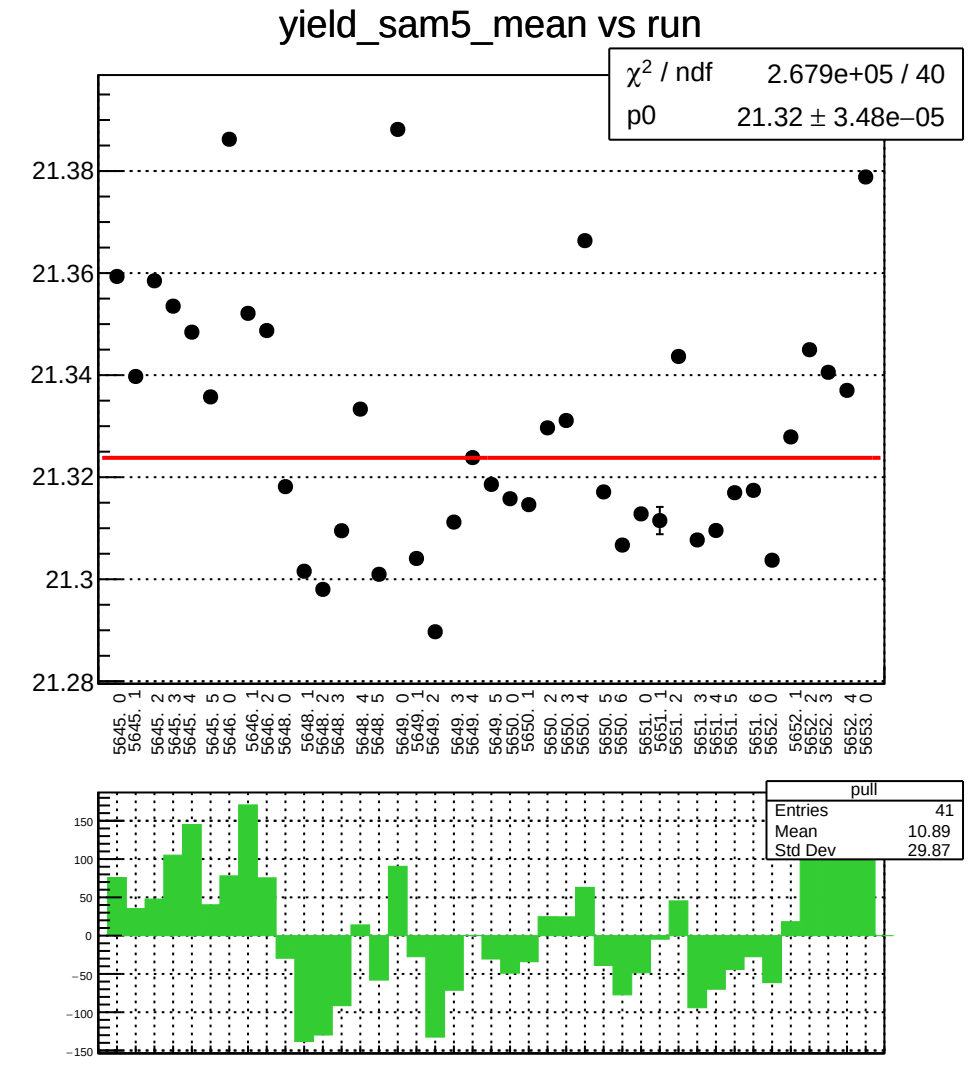

pull1D
Entries 41
Mean −1.381
Std Dev 2.638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

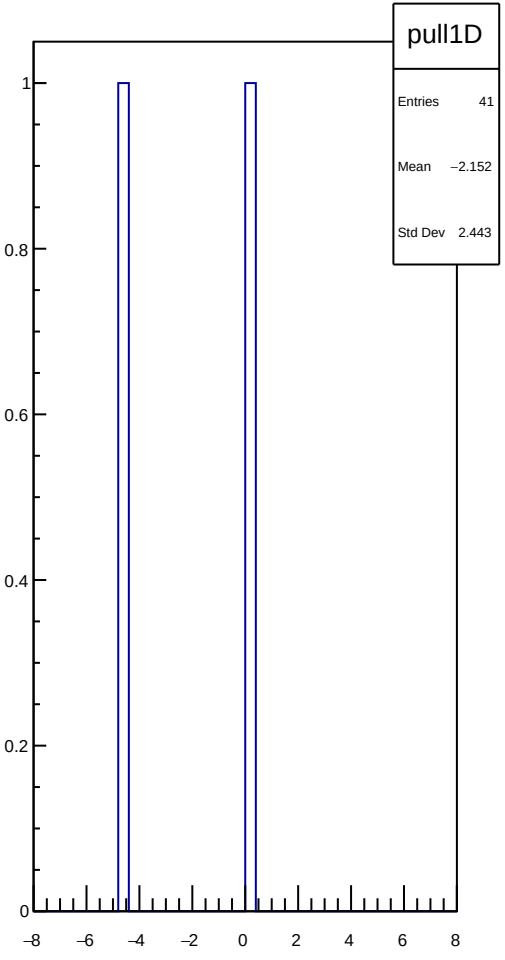

yield_sam3_rms vs run
χ² / ndf 1.646e+05 / 40
p0 0.1418 ± 0.0001792
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

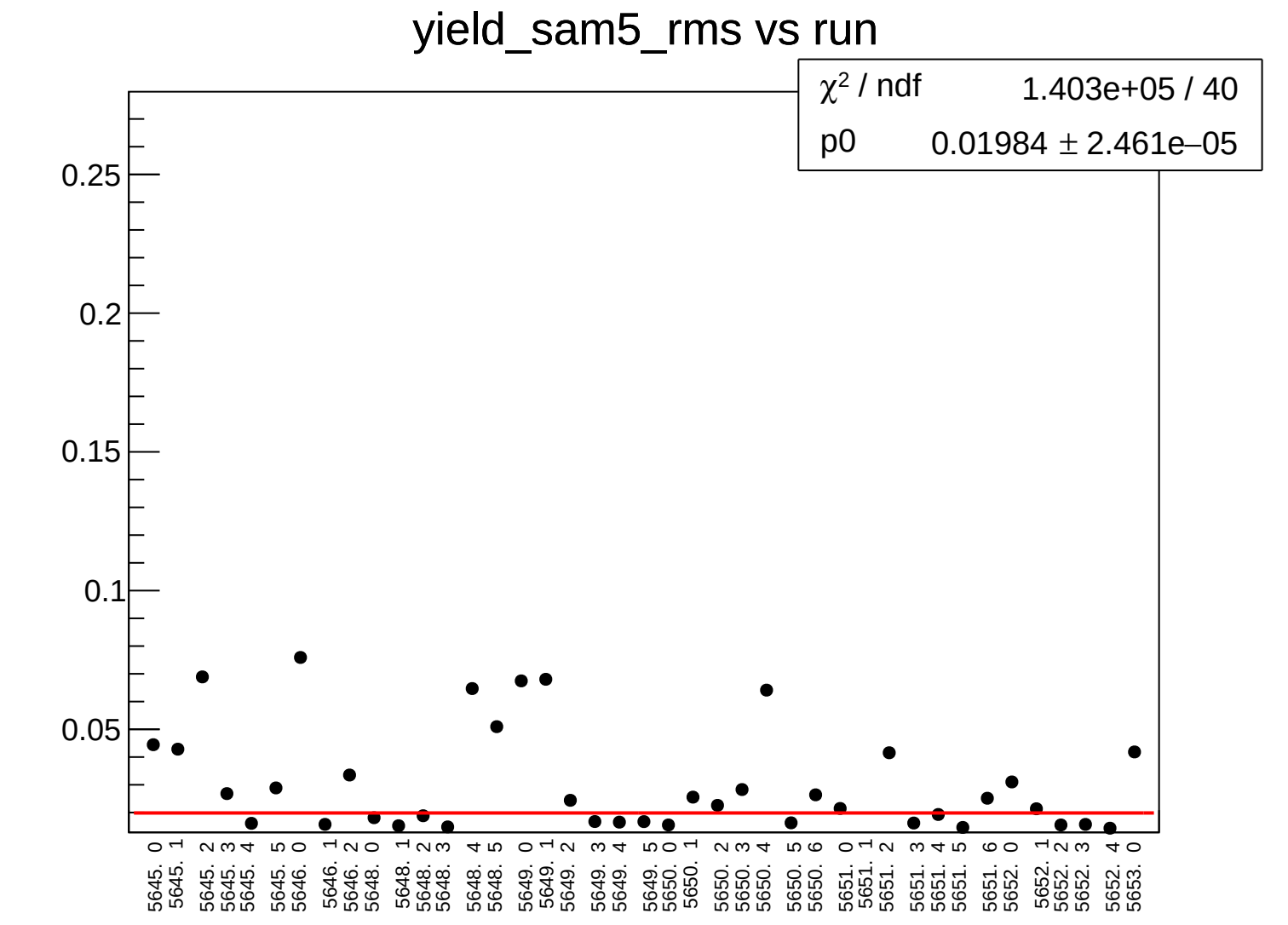

yield_sam4_mean vs run
χ² / ndf 4.393e+05 / 40
p0 17.17 ± 0.0001665
17.6
17.5
17.4
17.3
17.2
17.1
17
16.9
pull
Entries 41
Mean −181
Std Dev 0
300
200
100
0
−100

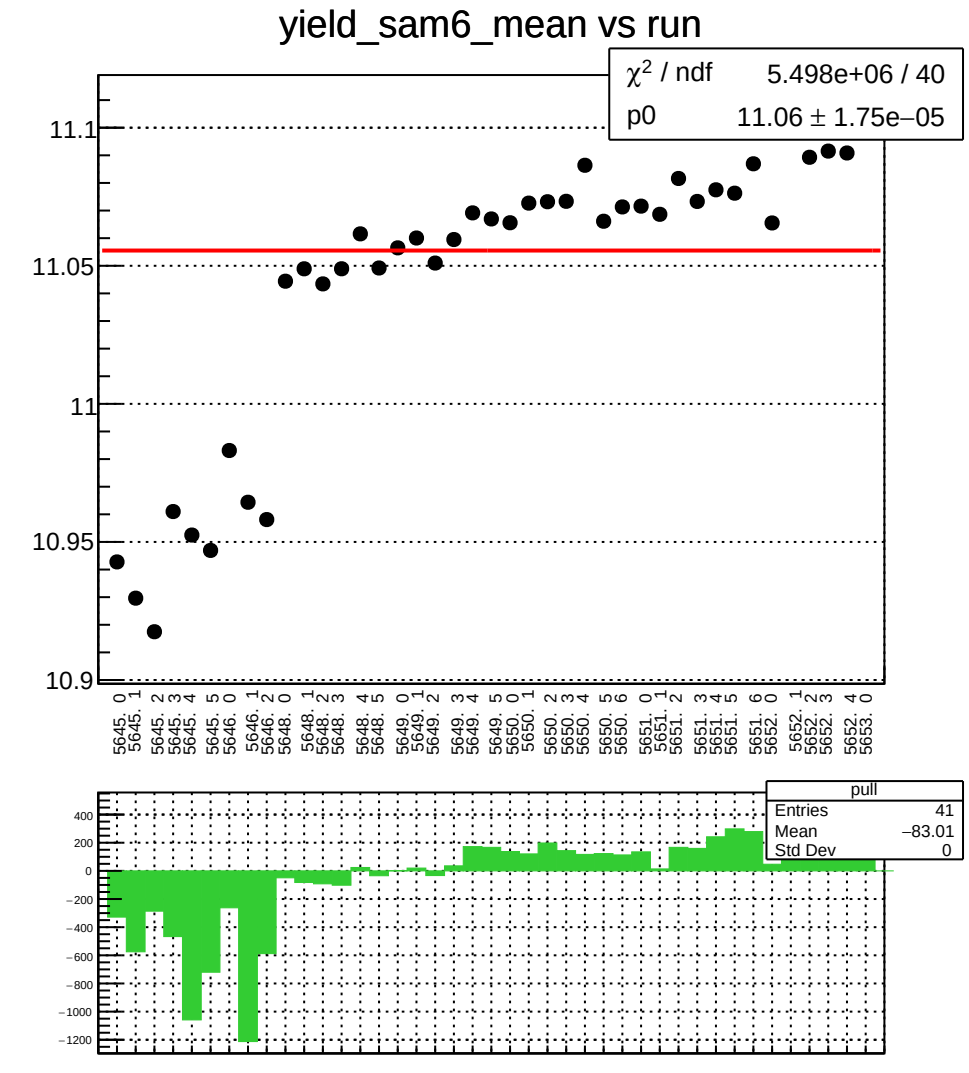

pull1D
Entries 41
Mean 2.273
Std Dev 6.871
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

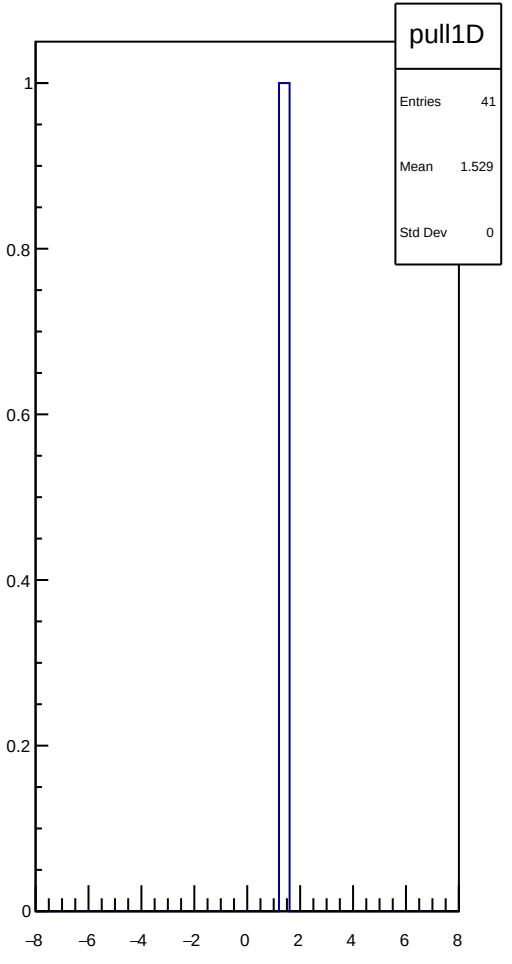

yield_sam4_rms vs run
χ² / ndf 1.528e+05 / 40
p0 0.09403 ± 0.0001178
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

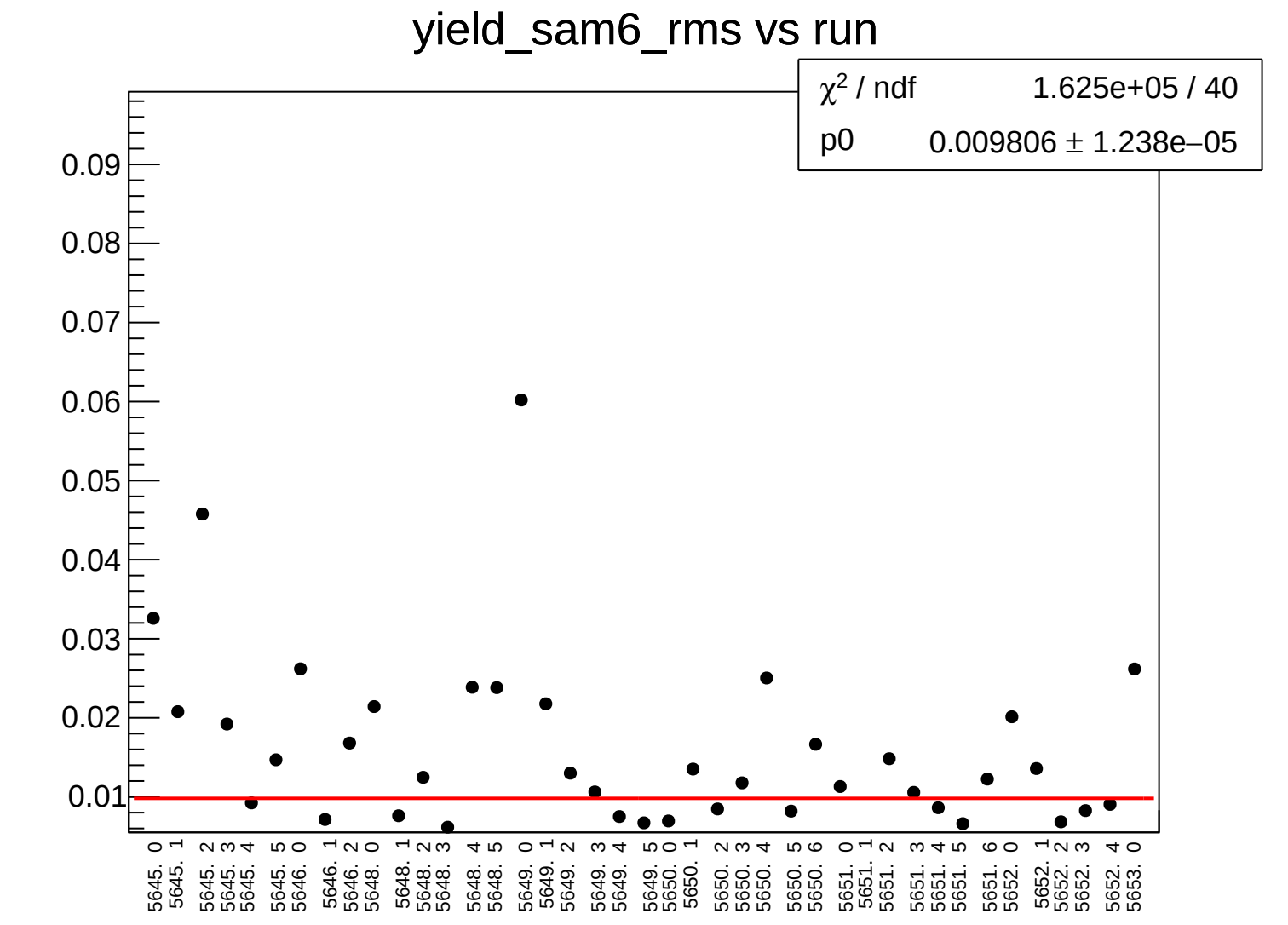

yield_sam5_mean vs run
χ² / ndf 2.679e+05 / 40
p0 21.32 ± 3.48e−05
21.38
21.36
21.34
21.32
21.3
21.28
pull
Entries 41
Mean 10.89
Std Dev 29.87
150
100
50
0
−50
−100
−150

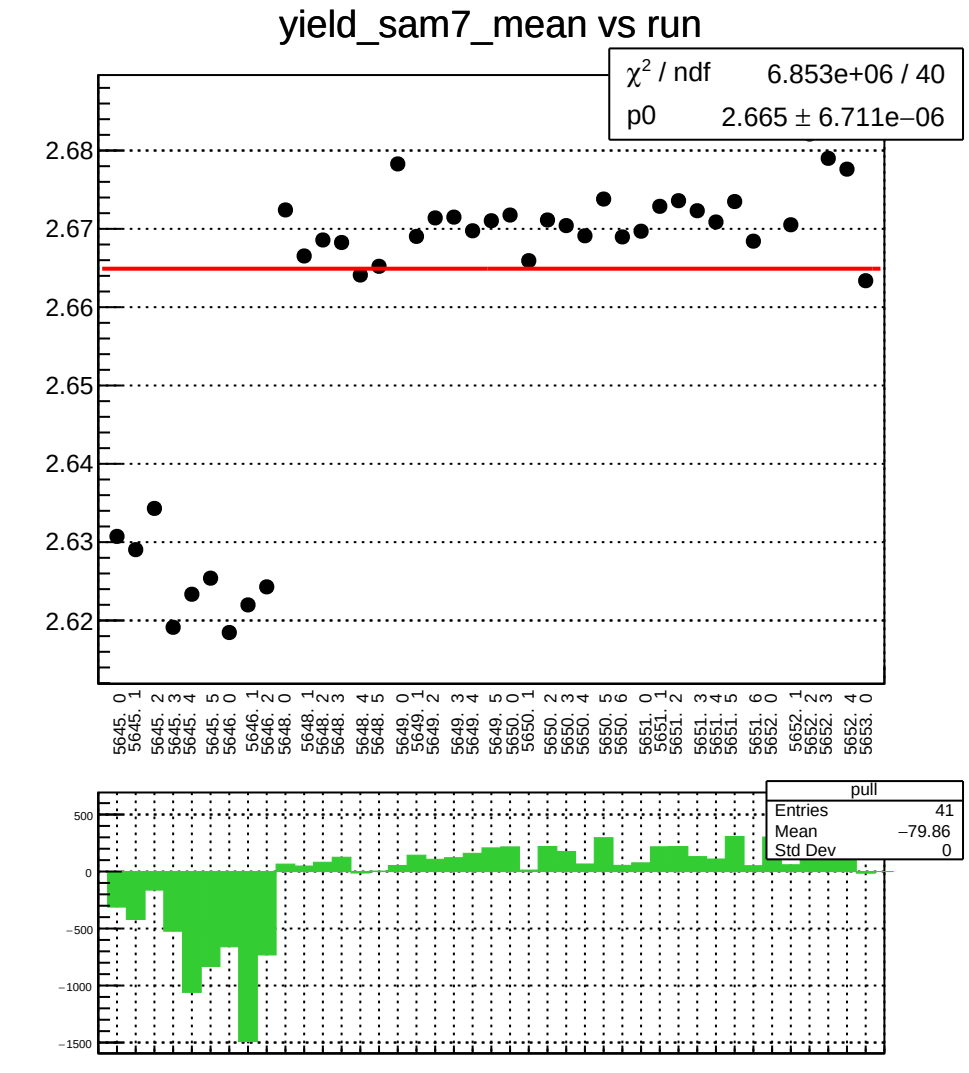

pull1D
Entries 41
Mean −2.152
Std Dev 2.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

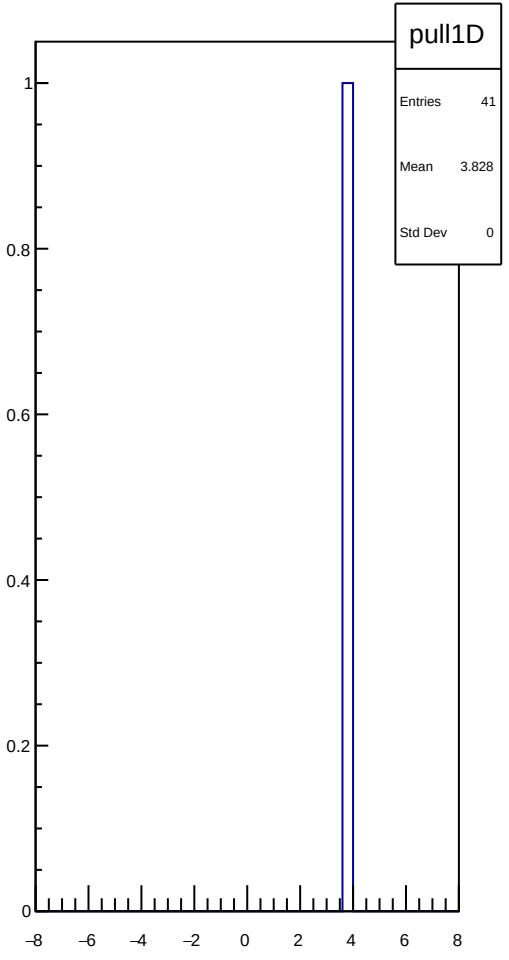

yield_sam5_rms vs run
χ² / ndf 1.403e+05 / 40
p0 0.01984 ± 2.461e–05
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

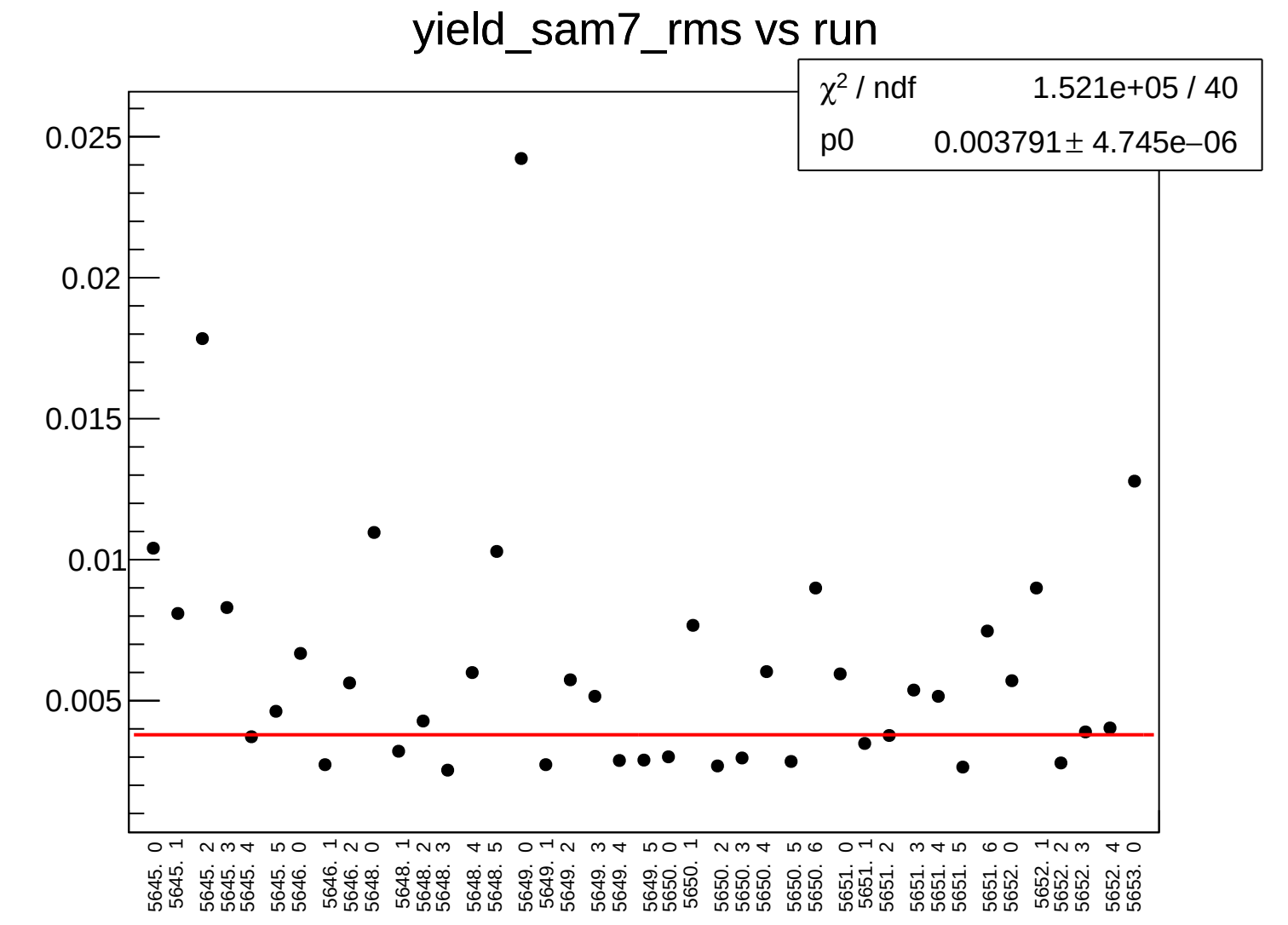

yield_sam6_mean vs run
χ² / ndf 5.498e+06 / 40
p0 11.06 ± 1.75e−05
11.1
11.05
11
10.95
10.9
pull
Entries 41
Mean −83.01
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

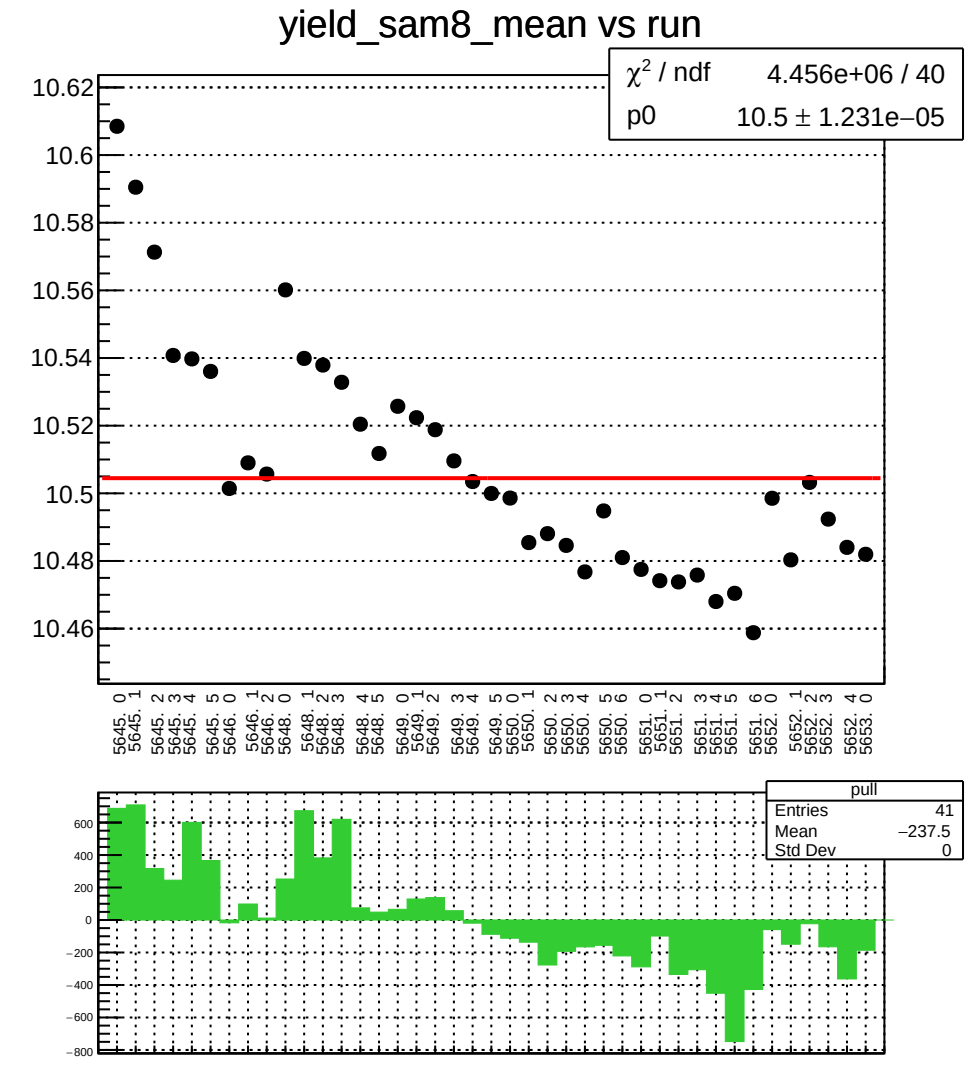

pull1D
Entries 41
Mean 1.529
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

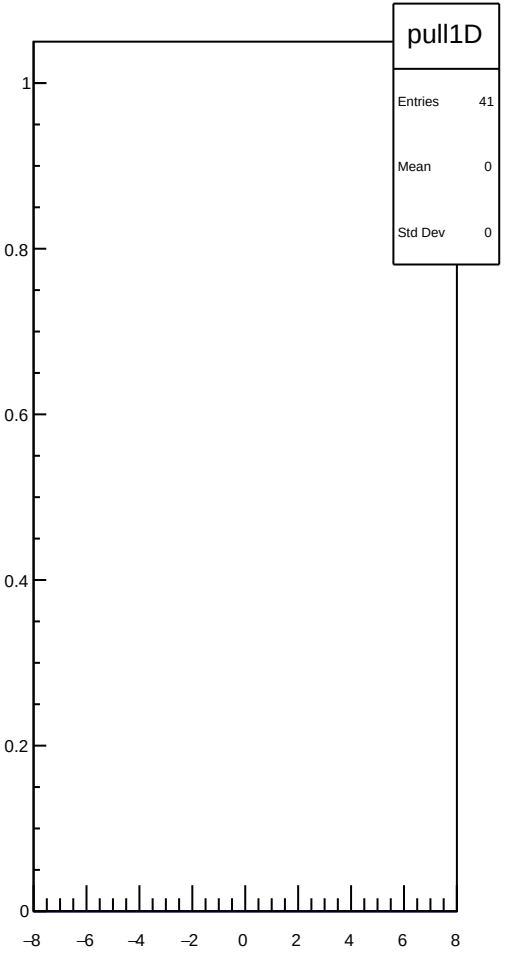

yield_sam6_rms vs run
χ² / ndf 1.625e+05 / 40
p0 0.009806 ± 1.238e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

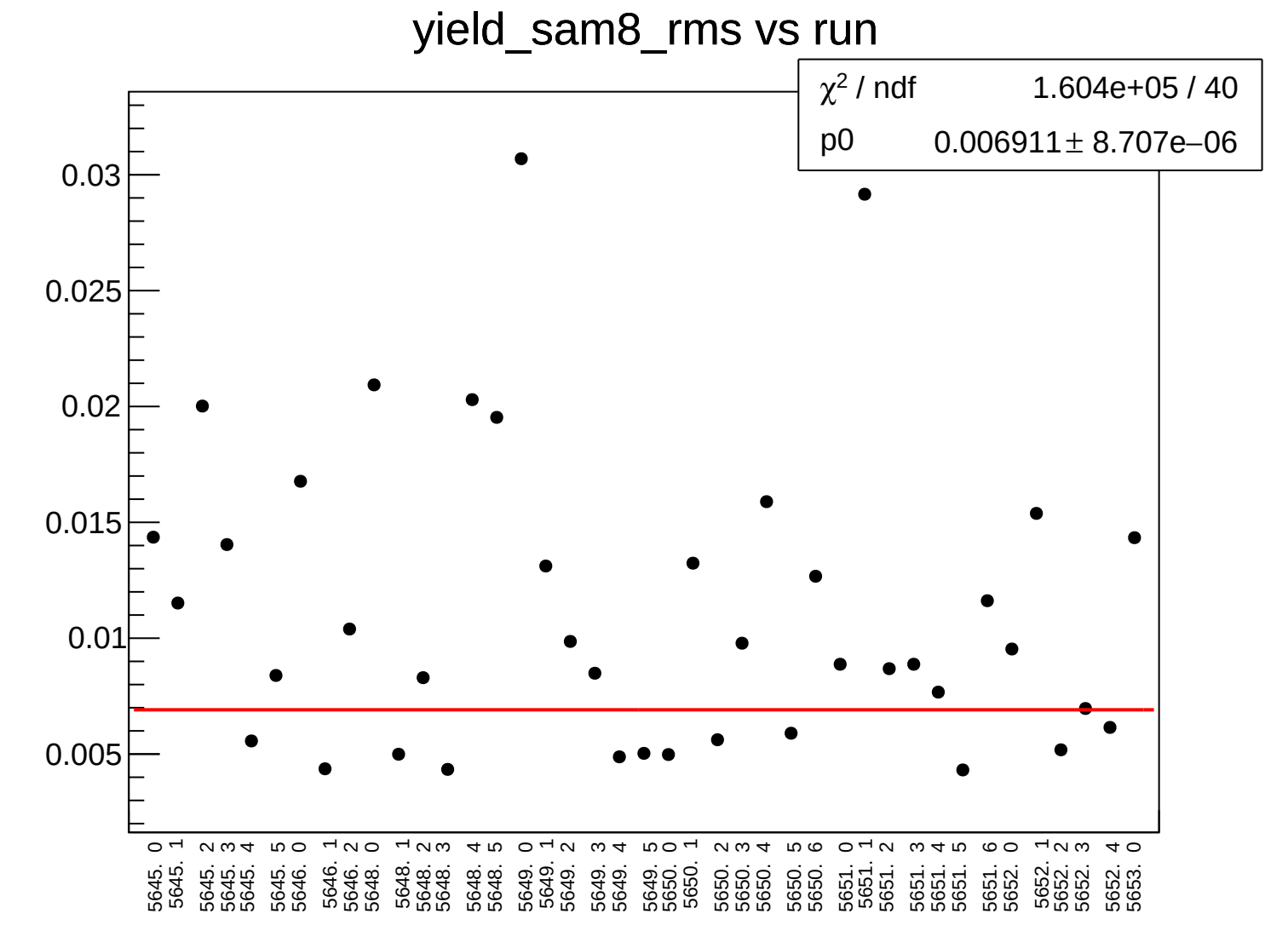

yield_sam7_mean vs run
χ² / ndf 6.853e+06 / 40
p0 2.665 ± 6.711e−06
2.68
2.67
2.66
2.65
2.64
2.63
2.62
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −79.86
Std Dev 0
500
0
−500
−1000
−1500

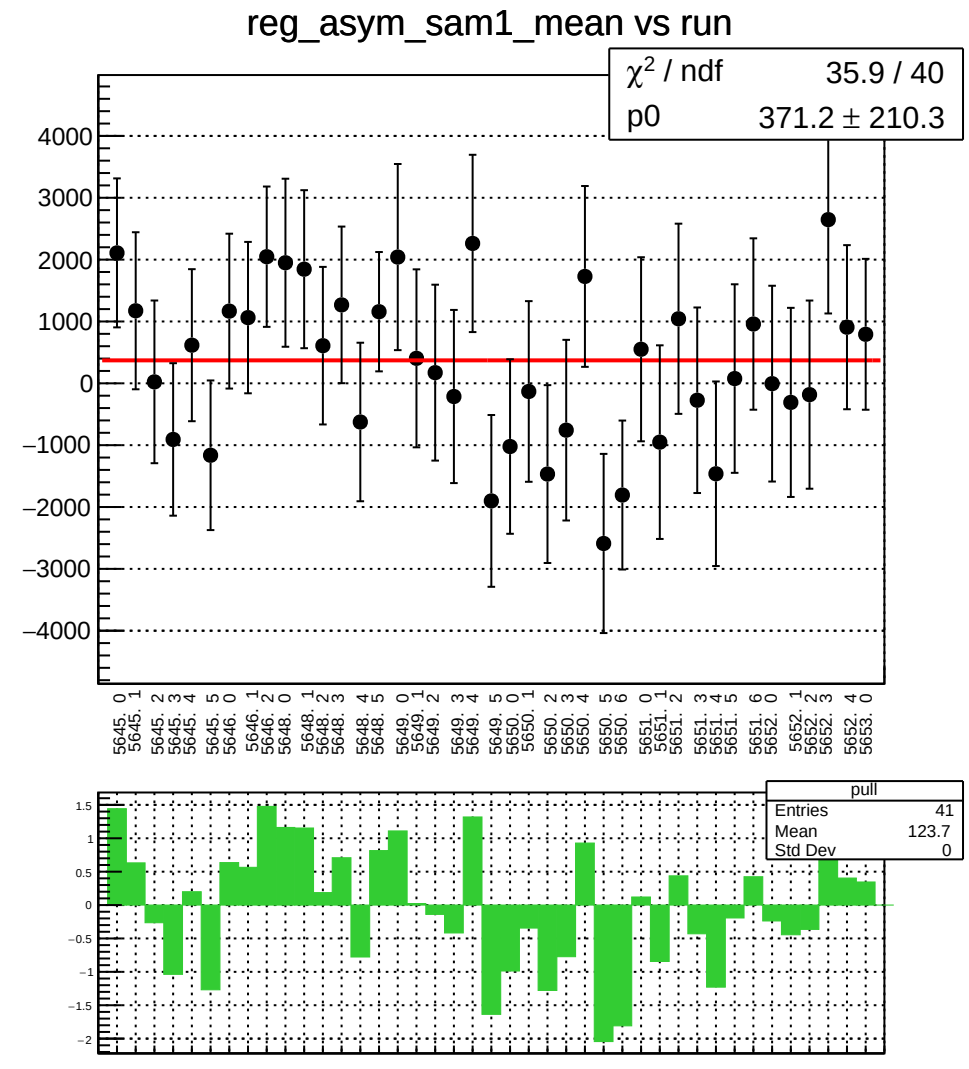

pull1D
Entries 41
Mean 3.828
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

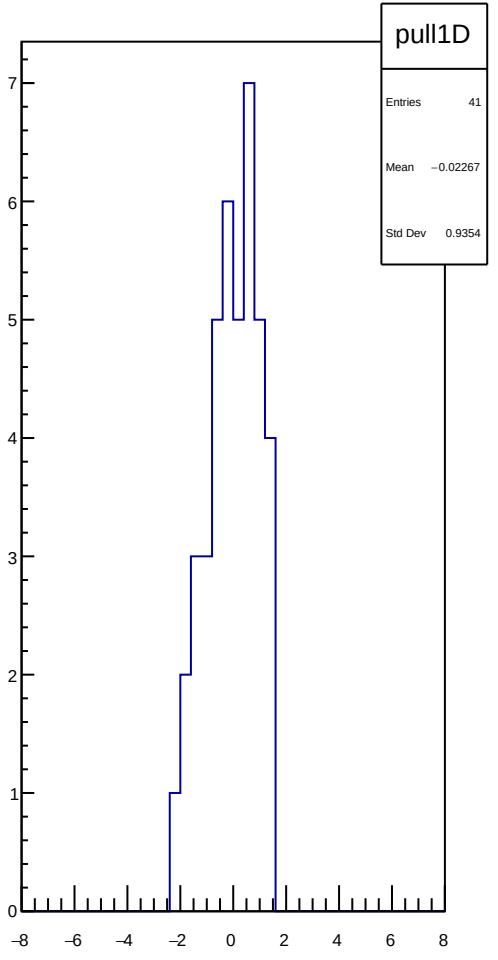

yield_sam7_rms vs run
χ² / ndf 1.521e+05 / 40
p0 0.003791 ± 4.745e−06
0.025
0.02
0.015
0.01
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

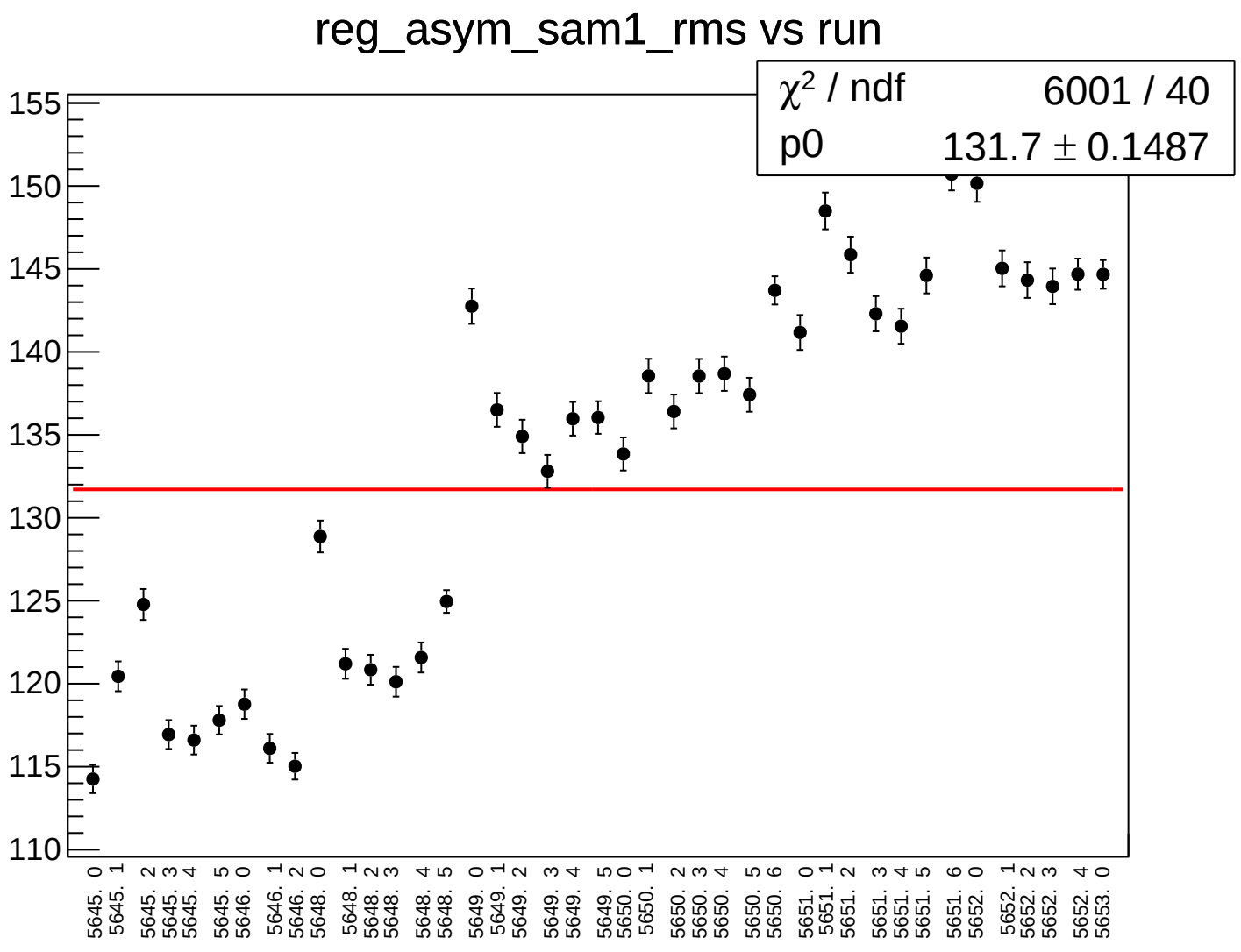

yield_sam8_mean vs run
χ² / ndf 4.456e+06 / 40
p0 10.5 ± 1.231e−05
10.62
10.6
10.58
10.56
10.54
10.52
10.5
10.48
10.46
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −237.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800

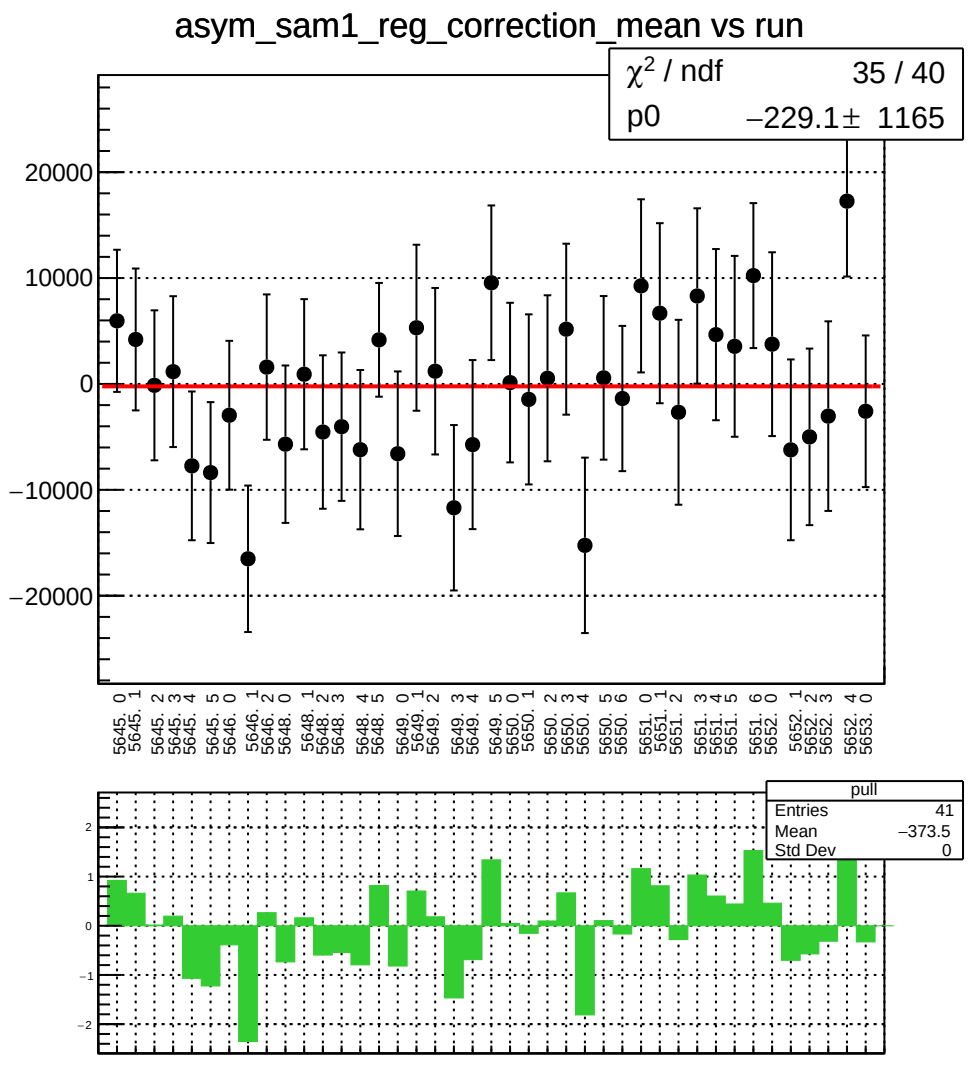

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

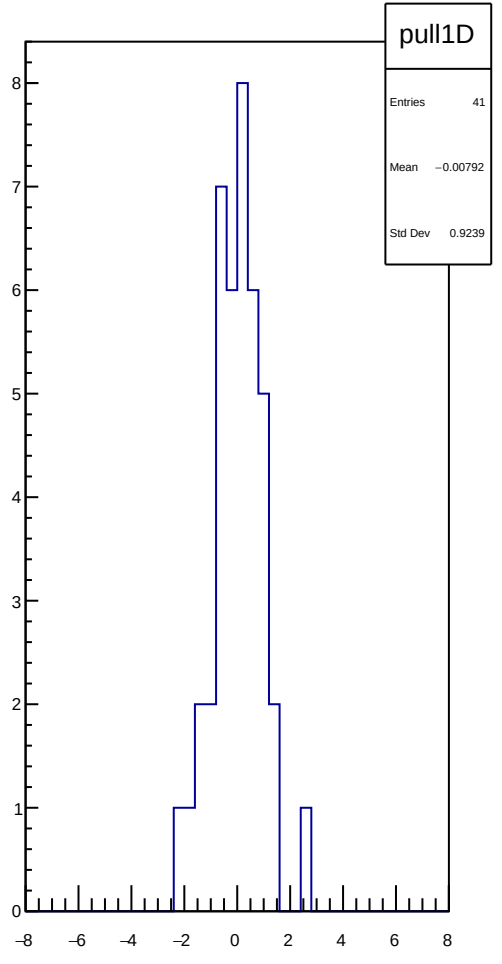

yield_sam8_rms vs run
χ² / ndf 1.604e+05 / 40
p0 0.006911 ± 8.707e−06
0.03
0.025
0.02
0.015
0.01
0.005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

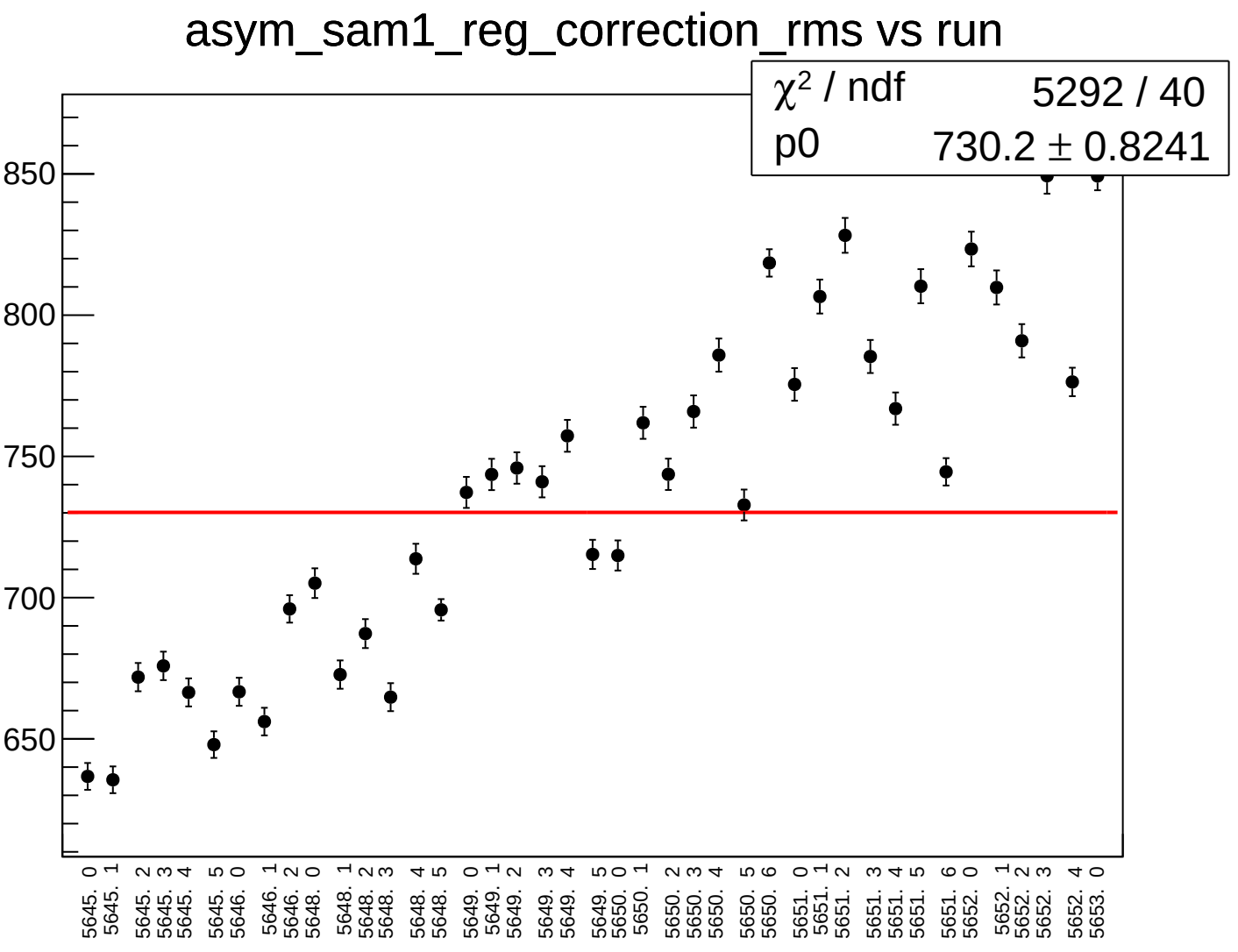

reg_asym_sam1_mean vs run
χ^2 / ndf 35.9 / 40
p0 371.2 ± 210.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 123.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

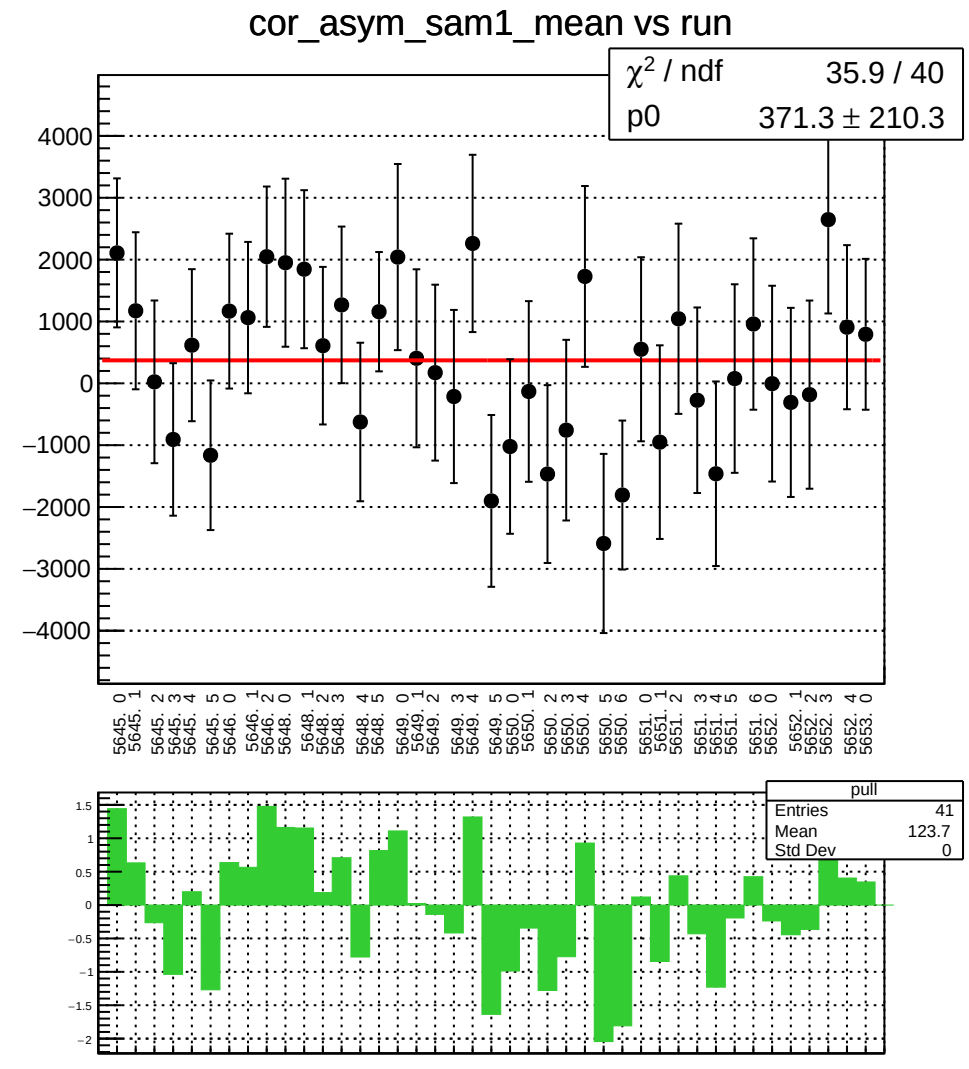

pull1D
Entries 41
Mean −0.02267
Std Dev 0.9354
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

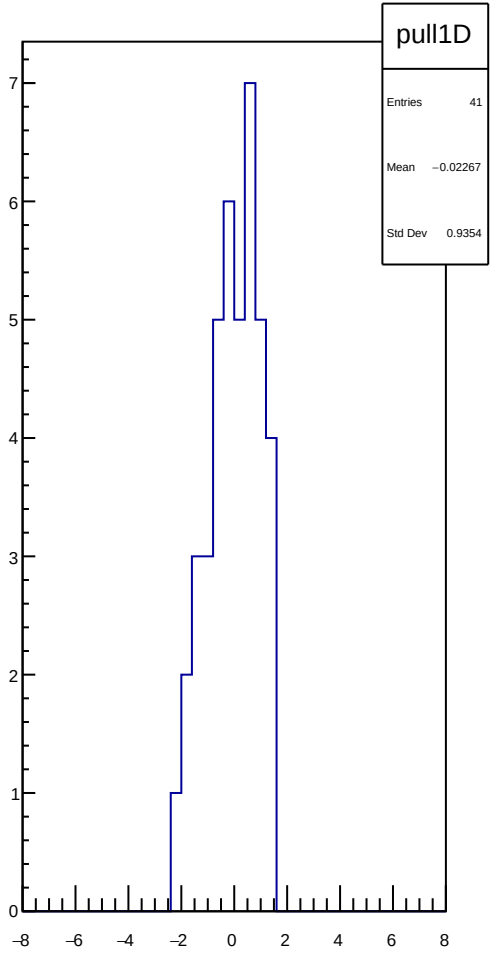

reg_asym_sam1_rms vs run
χ² / ndf 6001 / 40
p0 131.7 ± 0.1487
155
150
145
140
135
130
125
120
115
110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

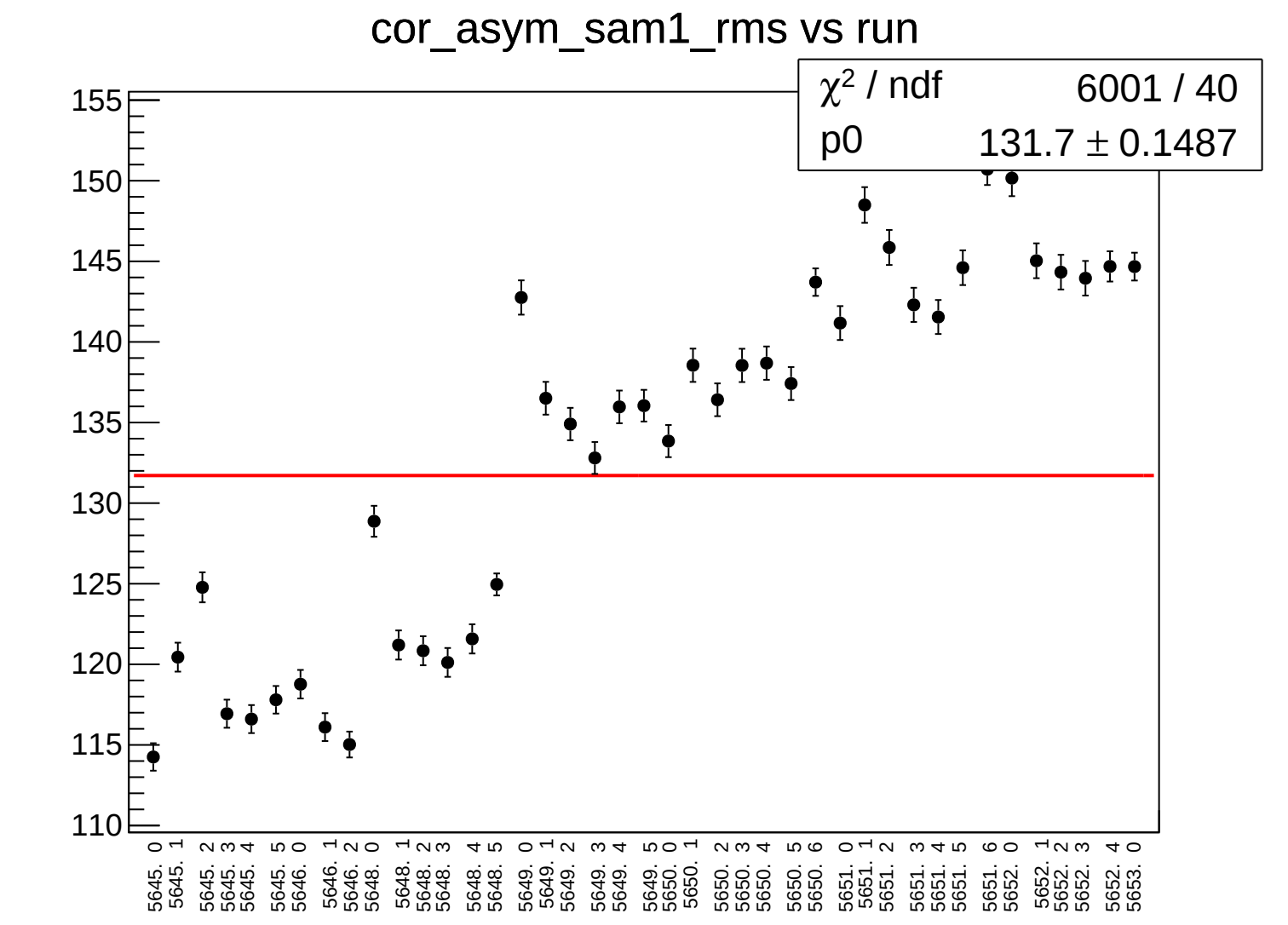

asym_sam1_reg_correction_mean vs run
χ² / ndf 35 / 40
p0 −229.1± 1165
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −373.5
Std Dev 0
2
1
0
−1
−2

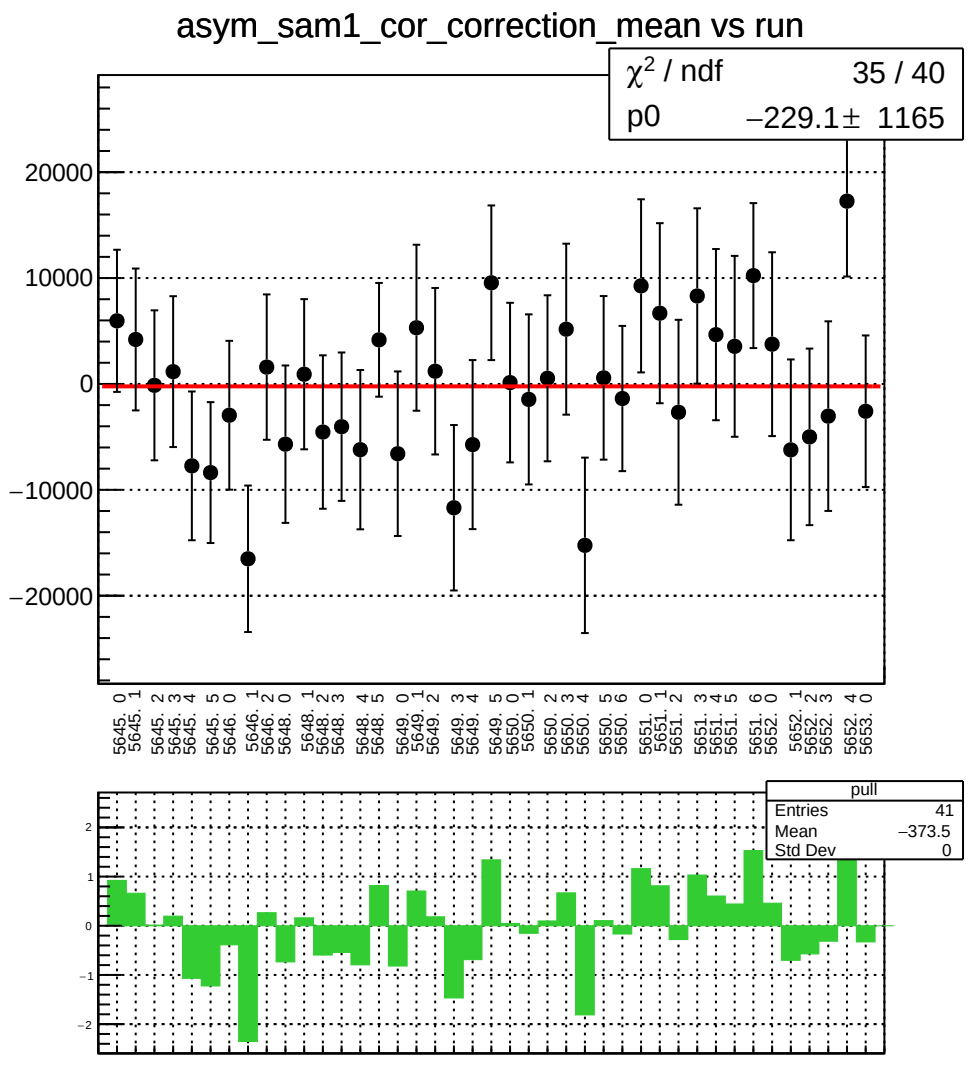

pull1D
Entries 41
Mean −0.00792
Std Dev 0.9239
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

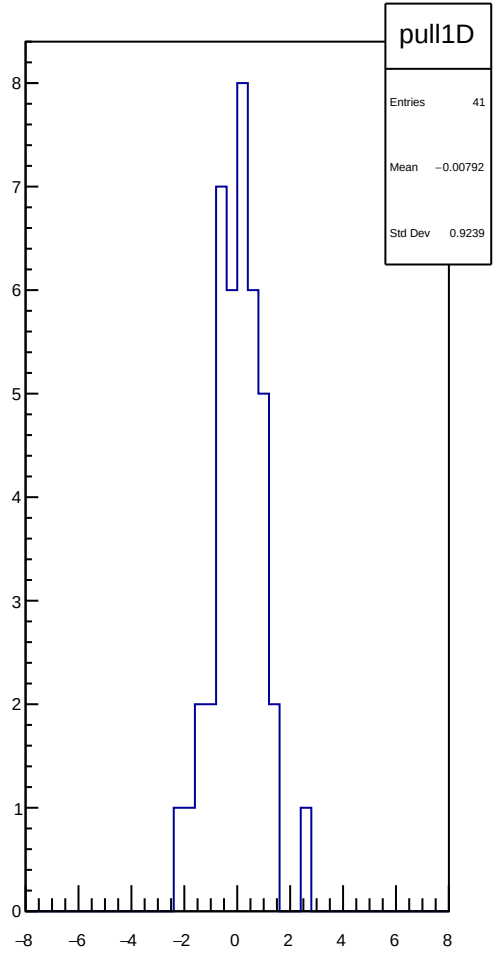

asym_sam1_reg_correction_rms vs run
χ² / ndf 5292 / 40
p0 730.2 ± 0.8241
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

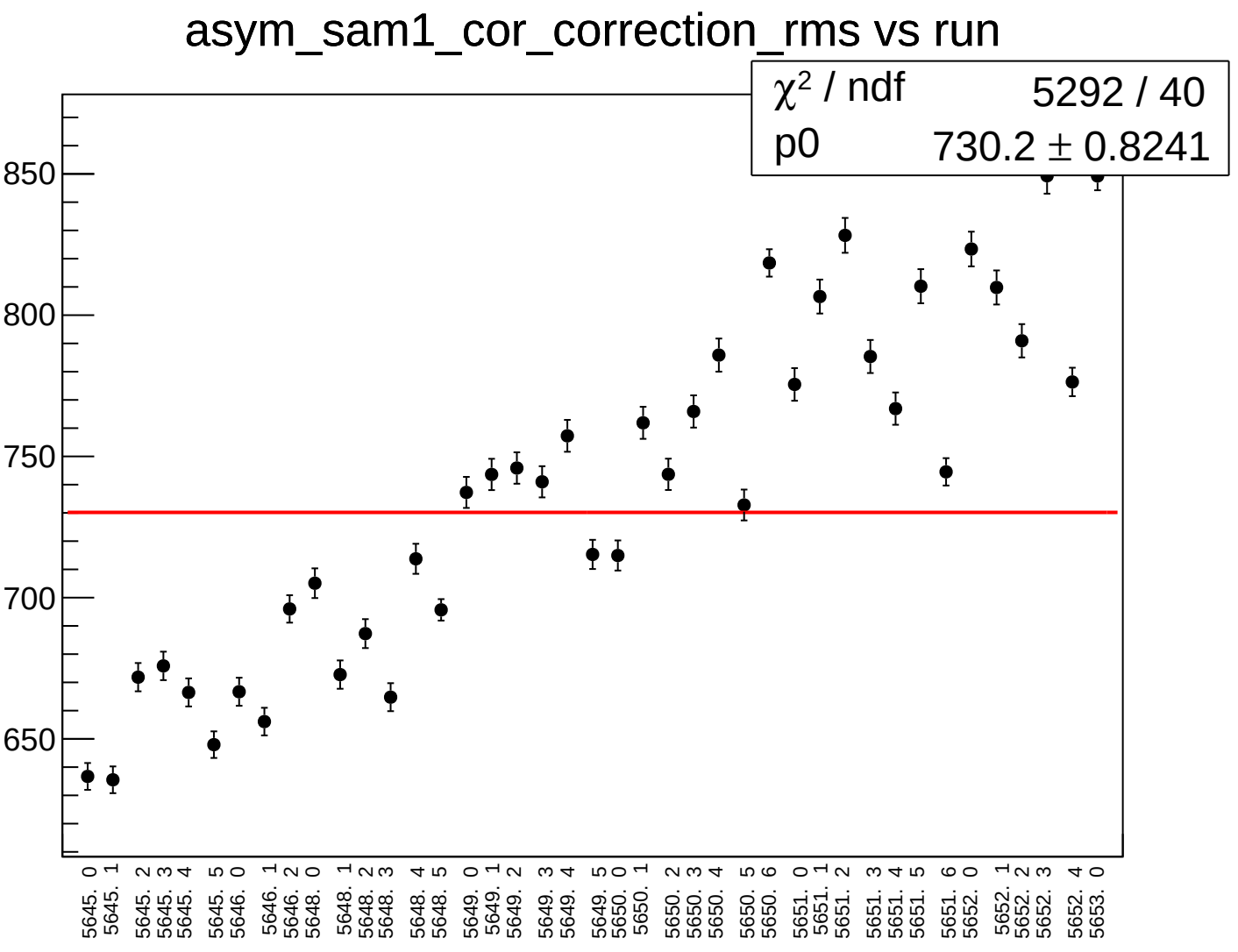

cor_asym_sam1_mean vs run
χ² / ndf 35.9 / 40
p0 371.3 ± 210.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 123.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

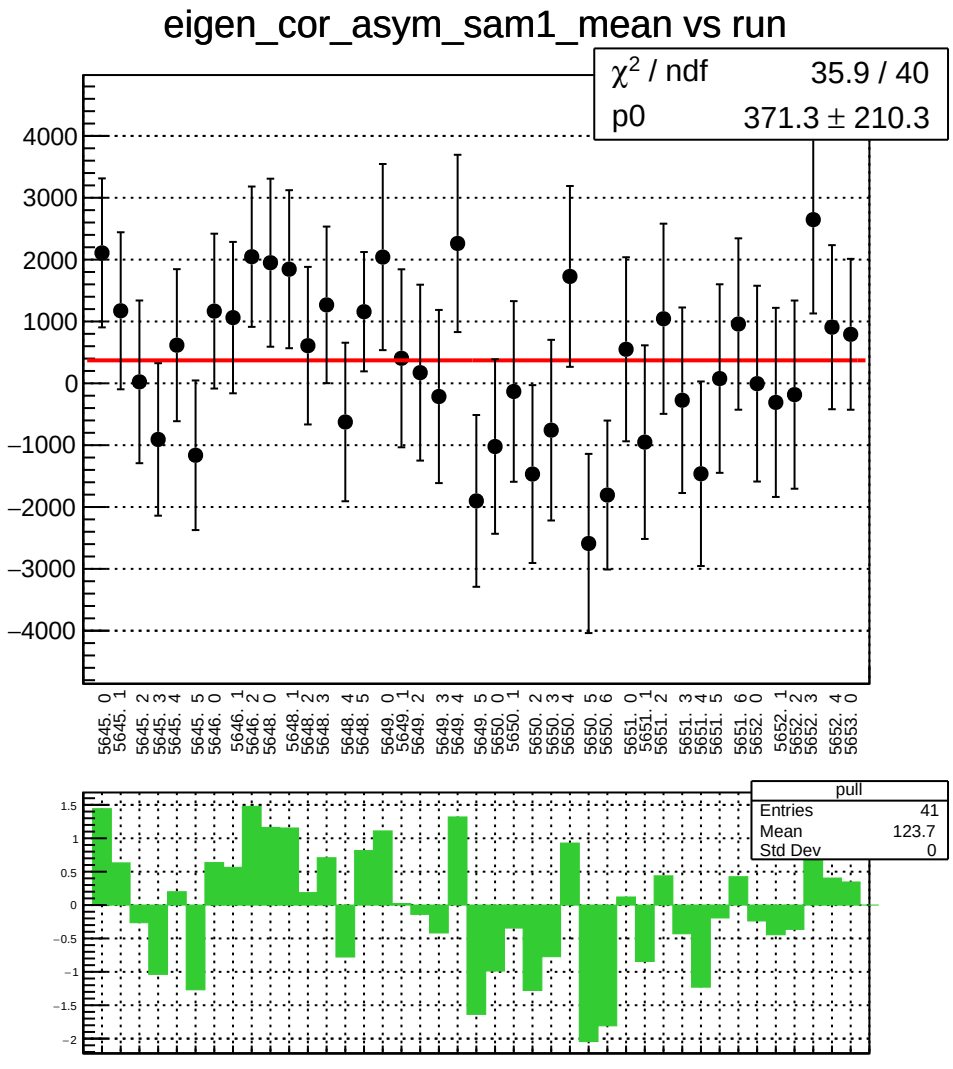

pull1D
Entries 41
Mean −0.02267
Std Dev 0.9354
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

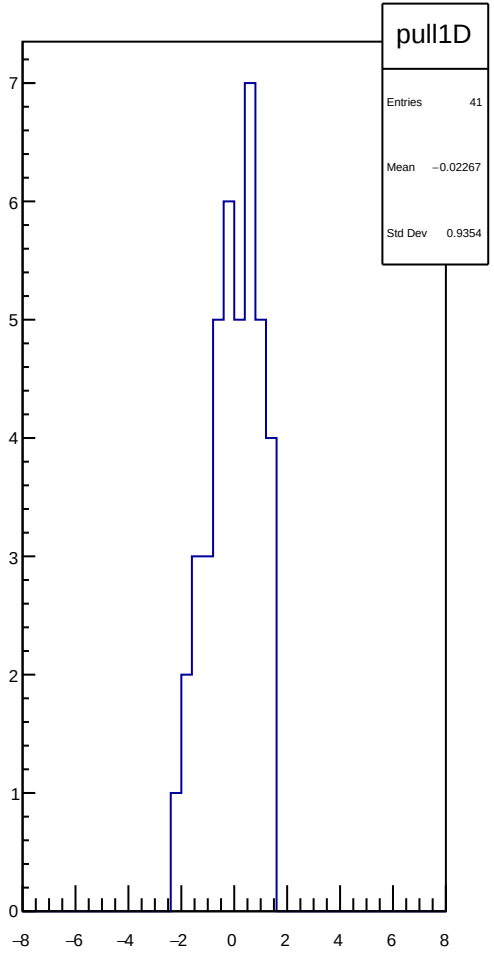

cor_asym_sam1_rms vs run
χ² / ndf 6001 / 40
p0 131.7 ± 0.1487
155
150
145
140
135
130
125
120
115
110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

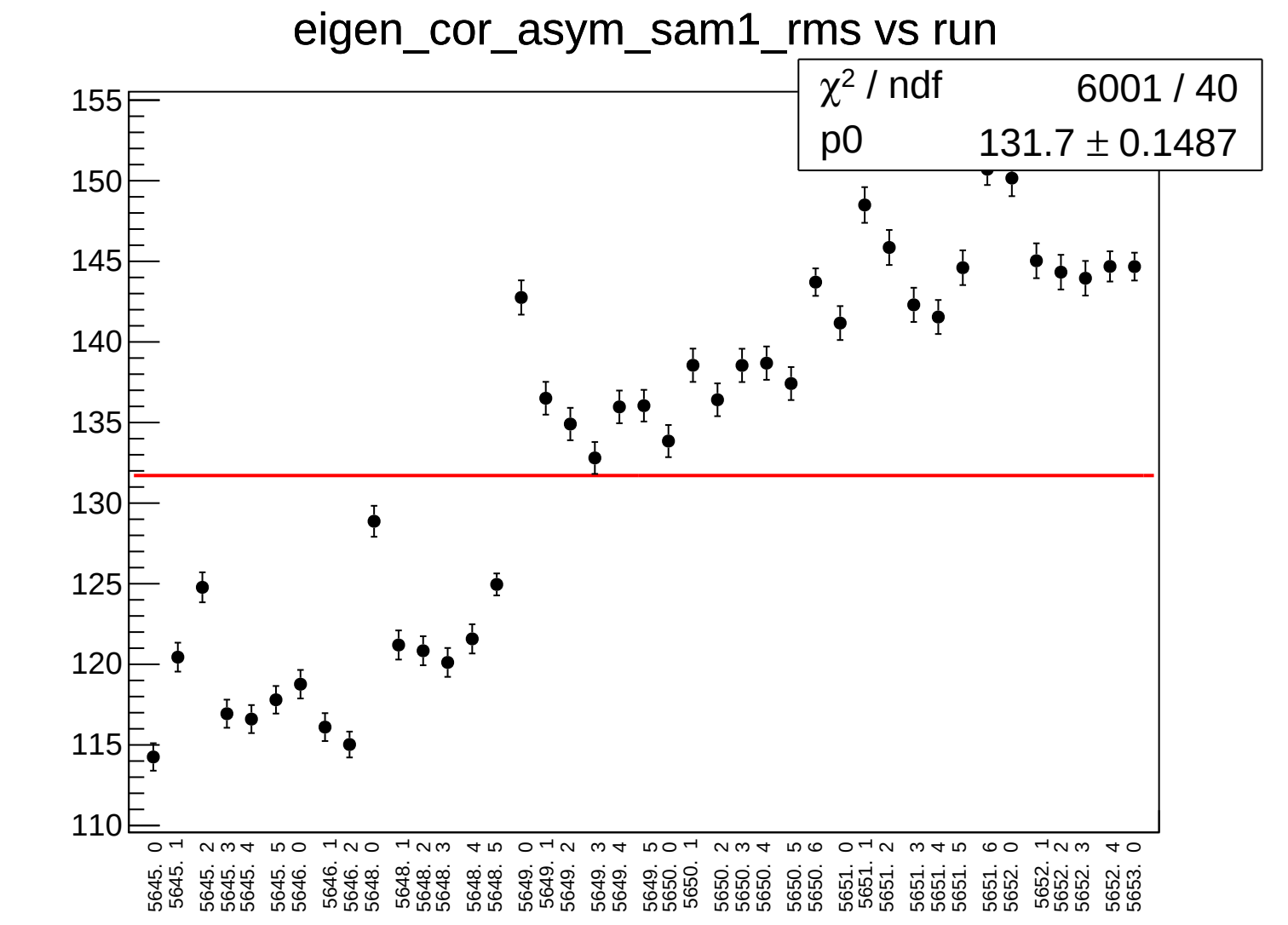

asym_sam1_cor_correction_mean vs run
χ² / ndf 35 / 40
p0 −229.1± 1165
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −373.5
Std Dev 0
2
1
0
−1
−2

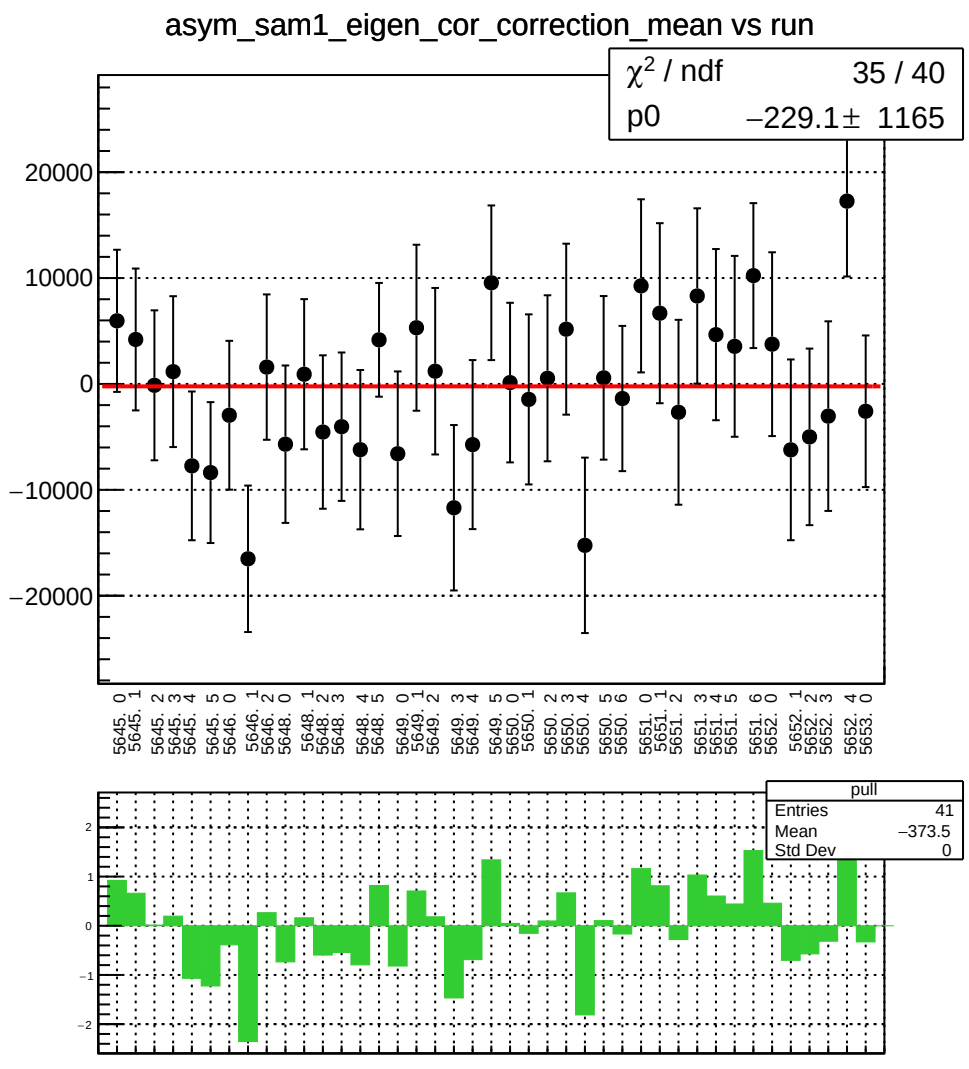

pull1D
Entries 41
Mean −0.00792
Std Dev 0.9239
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

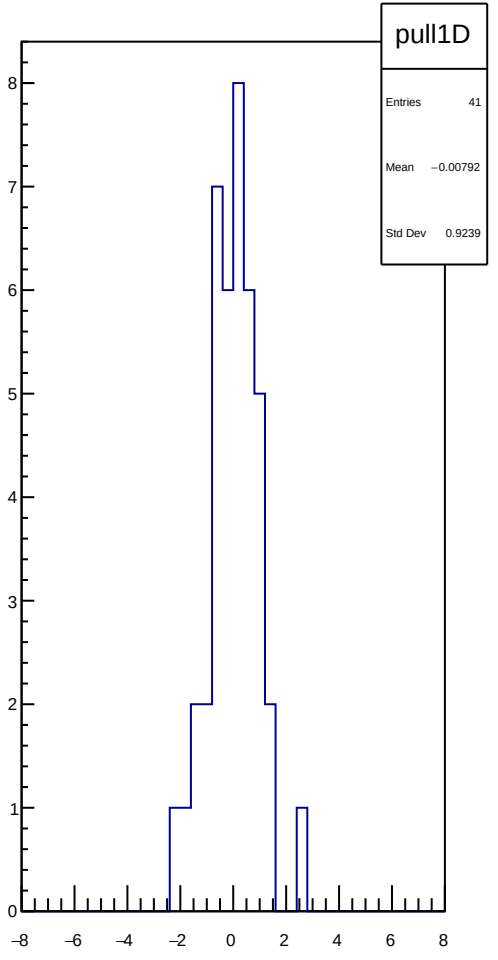

asym_sam1_cor_correction_rms vs run
χ² / ndf 5292 / 40
p0 730.2 ± 0.8241
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

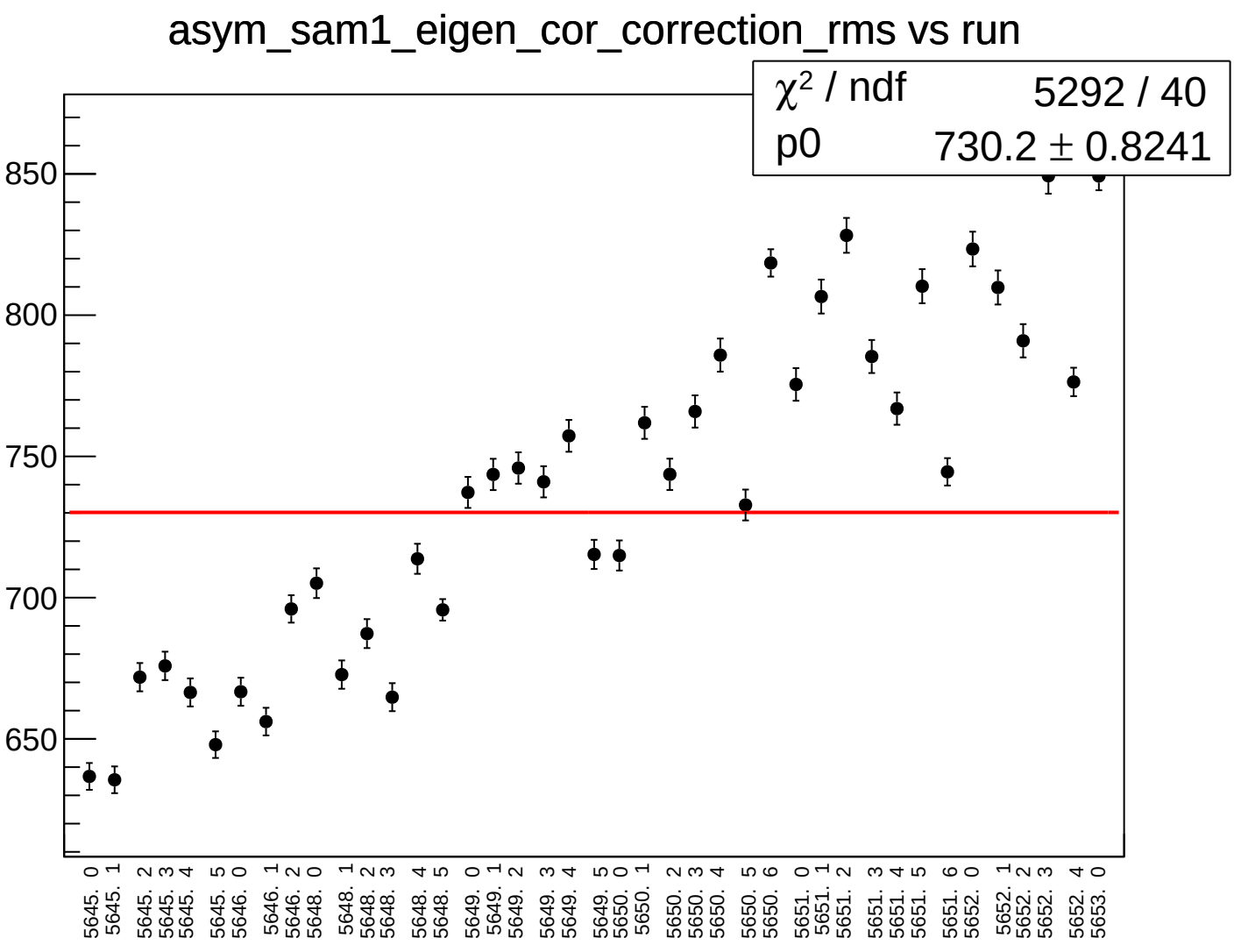

eigen_cor_asym_sam1_mean vs run
χ² / ndf 35.9 / 40
p0 371.3 ± 210.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 123.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

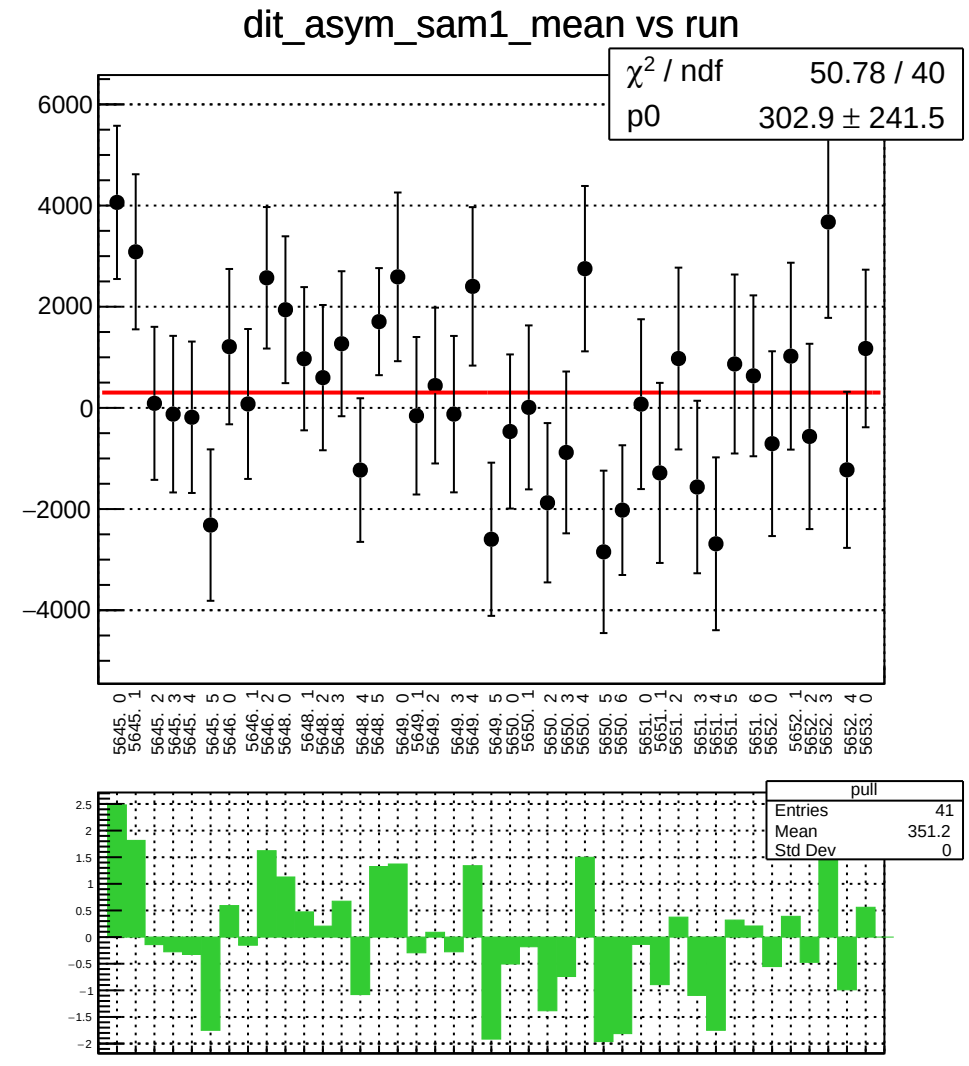

pull1D
Entries 41
Mean −0.02267
Std Dev 0.9354
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

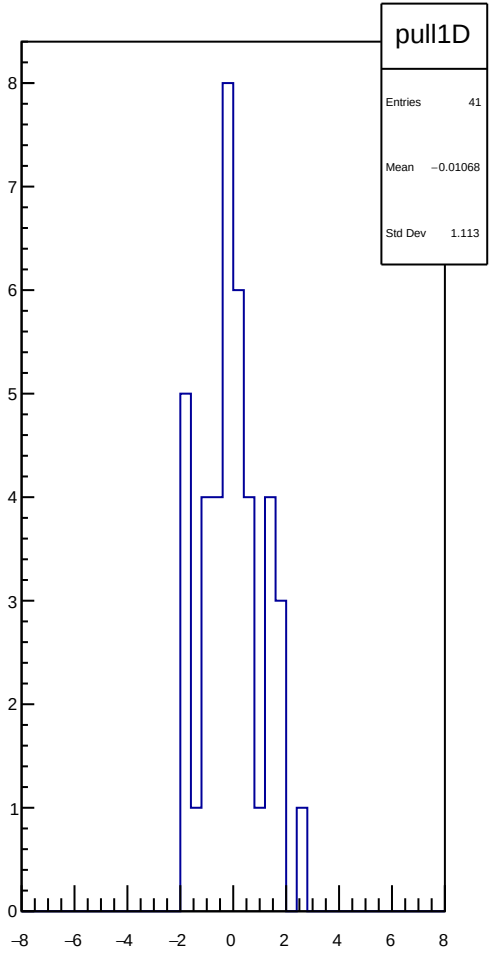

eigen_cor_asym_sam1_rms vs run
χ² / ndf 6001 / 40
p0 131.7 ± 0.1487
155
150
145
140
135
130
125
120
115
110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

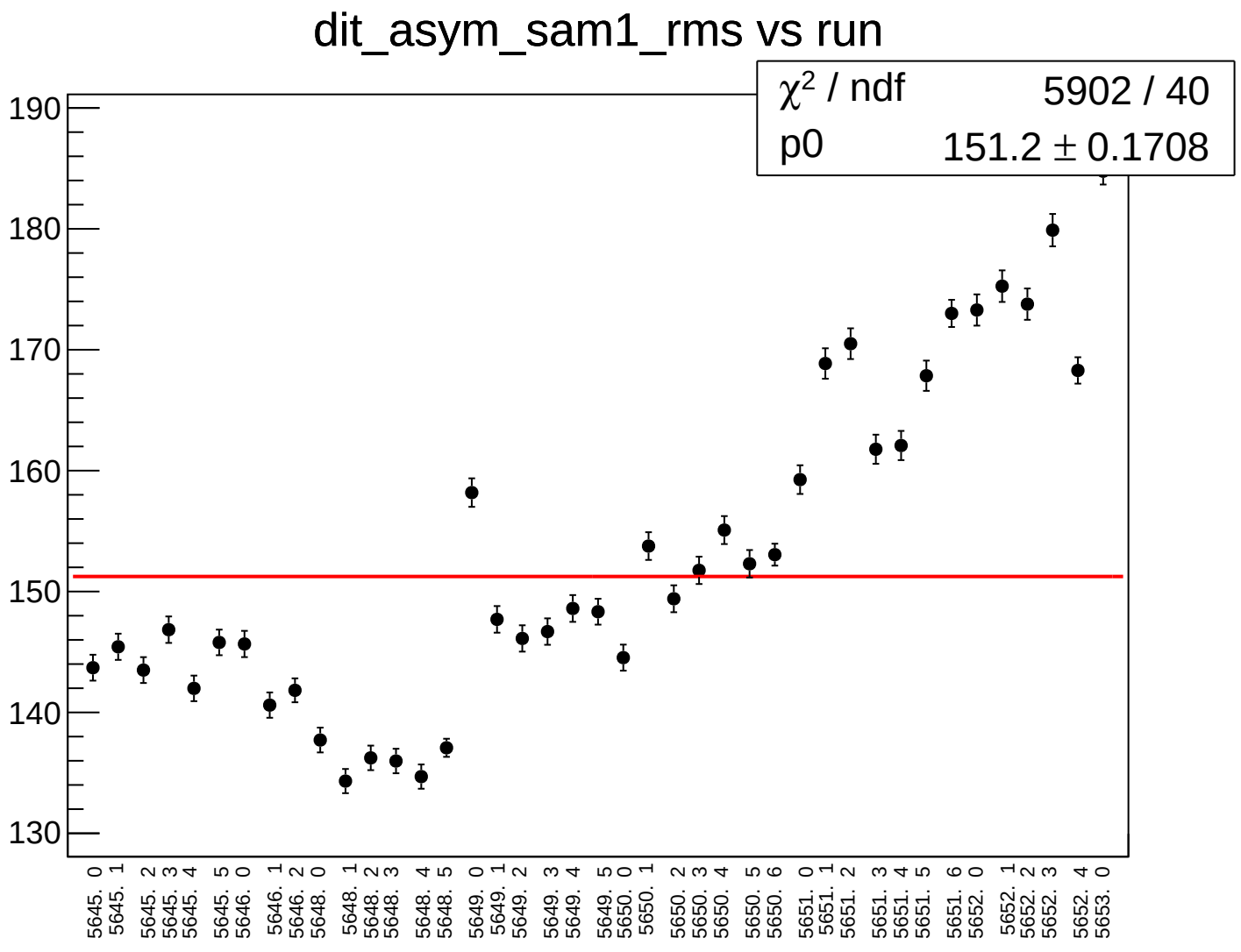

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 35 / 40
p0 −229.1± 1165
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −373.5
Std Dev 0
2
1
0
−1
−2

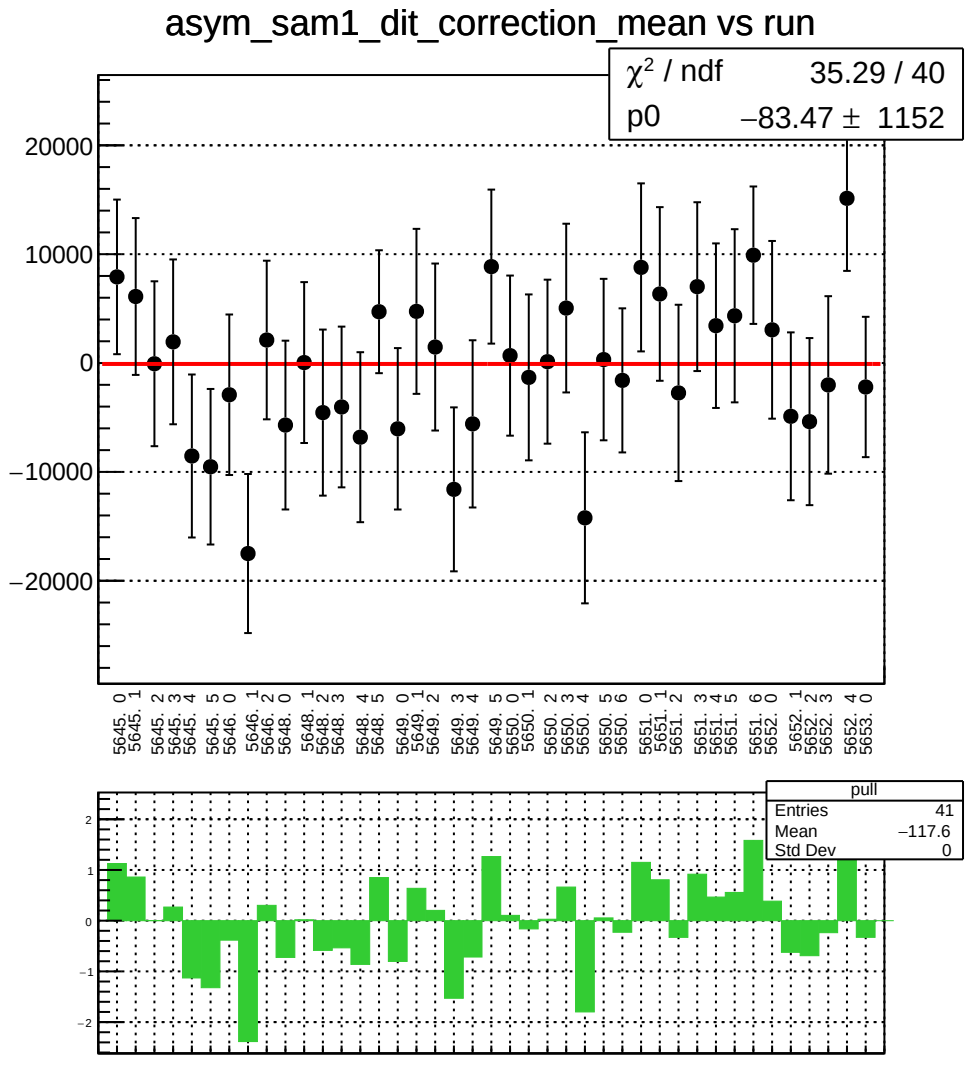

pull1D
Entries 41
Mean −0.00792
Std Dev 0.9239
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

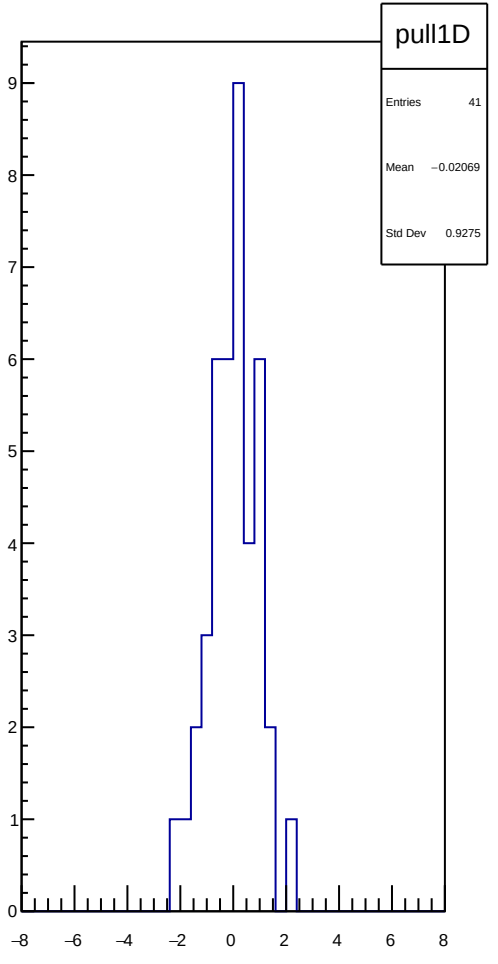

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 5292 / 40
p0 730.2 ± 0.8241
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

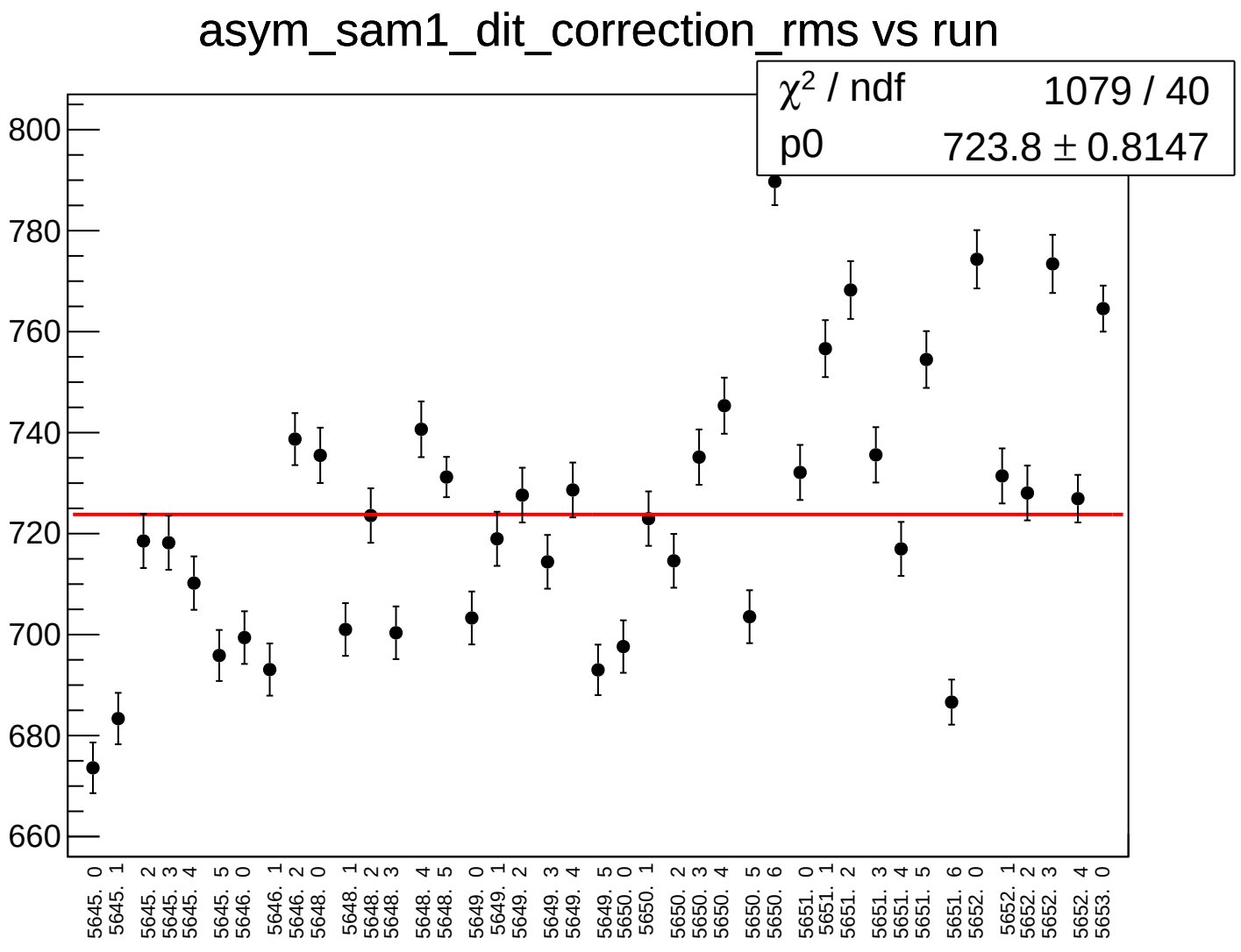

dit_asym_sam1_mean vs run
χ² / ndf 50.78 / 40
p0 302.9 ± 241.5
6000
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 351.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01068
Std Dev 1.113
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 5902 / 40
p0 151.2 ± 0.1708
190
180
170
160
150
140
130
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam1_dit_correction_mean vs run
χ² / ndf 35.29 / 40
p0 −83.47 ± 1152
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −117.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.02069
Std Dev 0.9275
9
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 1079 / 40
p0 723.8 ± 0.8147
800
780
760
740
720
700
680
660
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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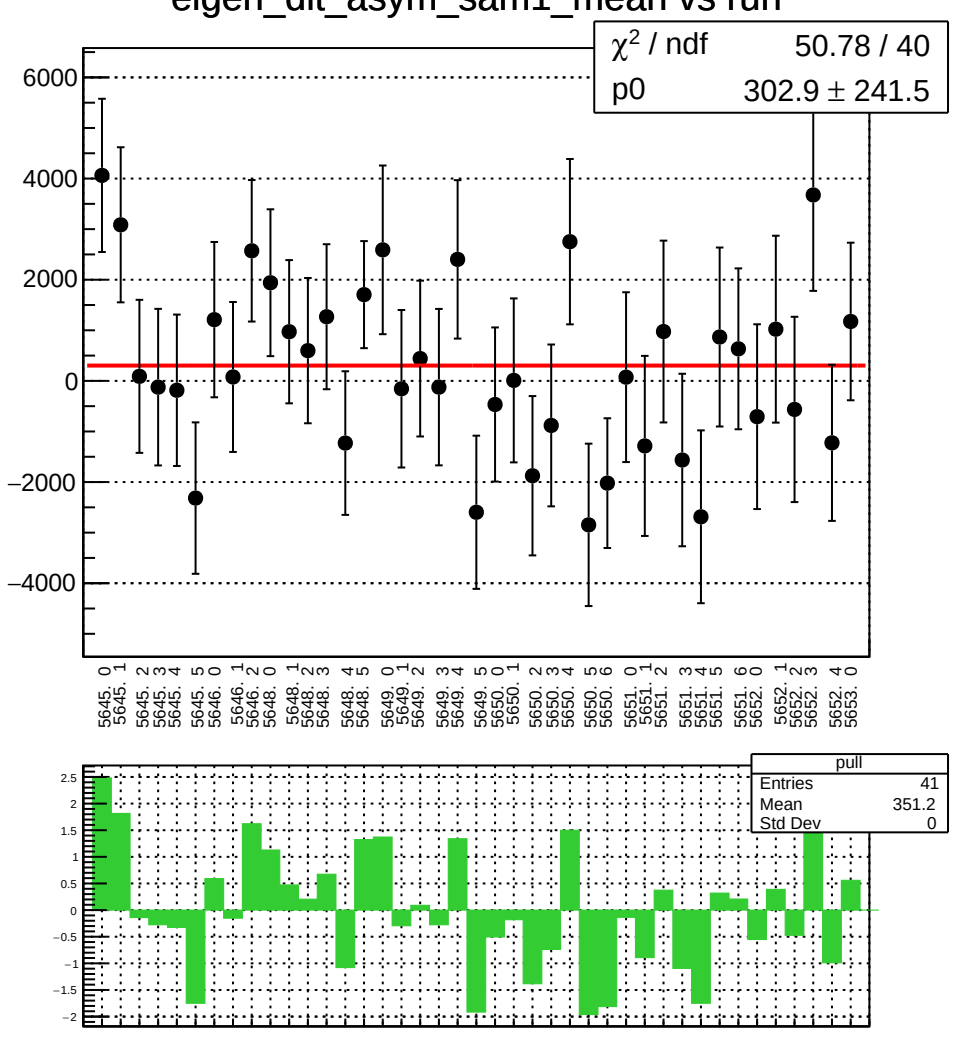
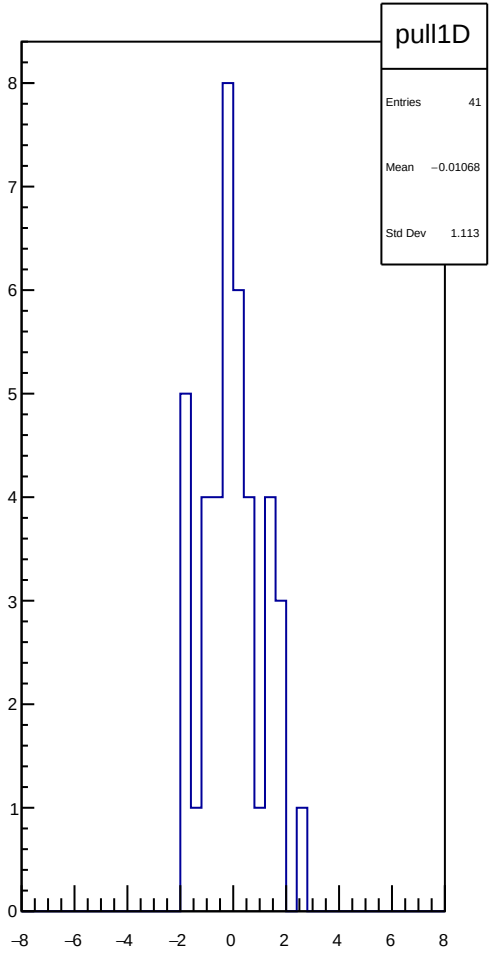
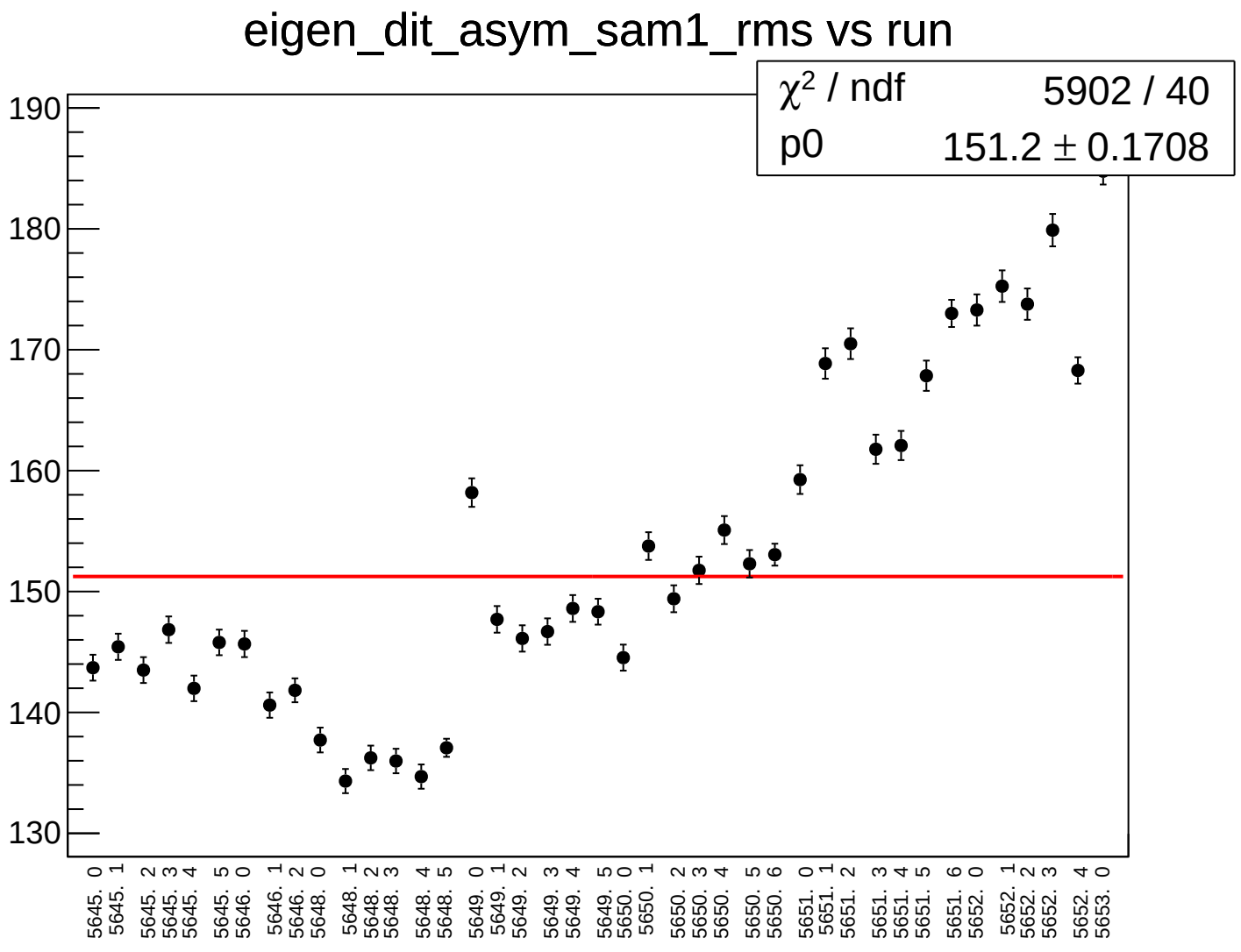
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_sam1_mean vs run
χ² / ndf 50.78 / 40
p0 302.9 ± 241.5
6000
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 351.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.01068
Std Dev 1.113
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 5902 / 40
p0 151.2 ± 0.1708
190
180
170
160
150
140
130
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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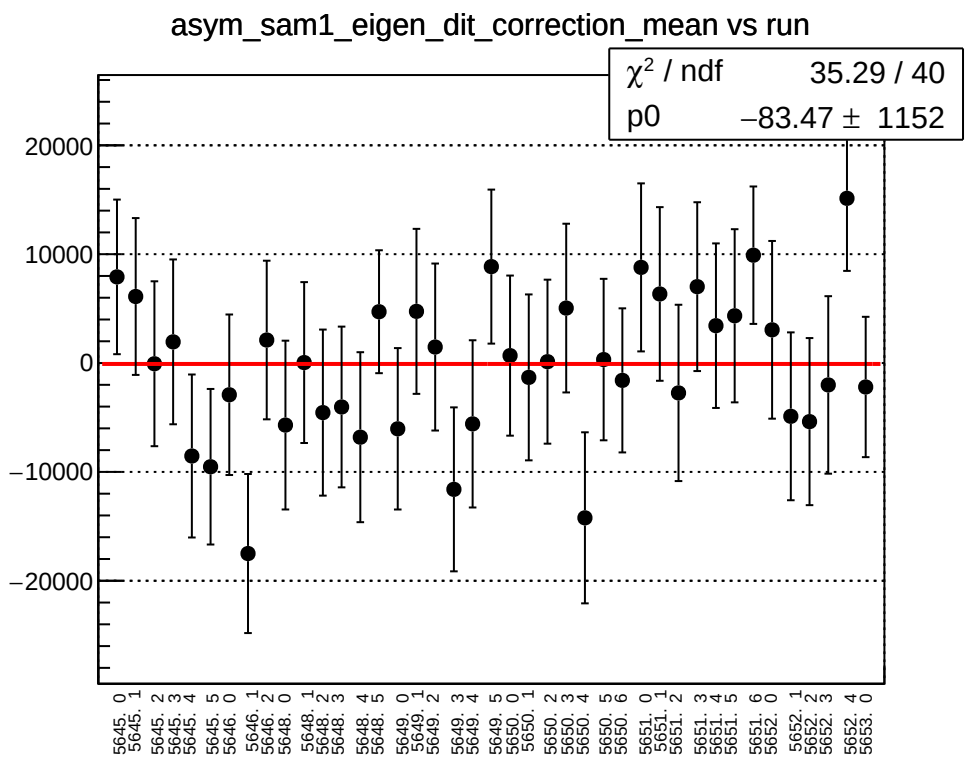
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 35.29 / 40
p0 −83.47 ± 1152
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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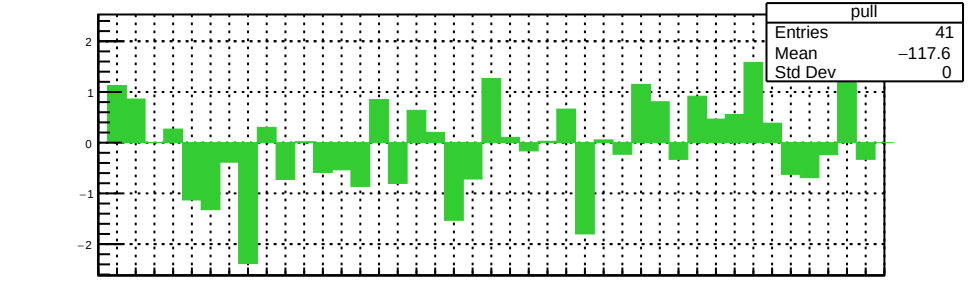
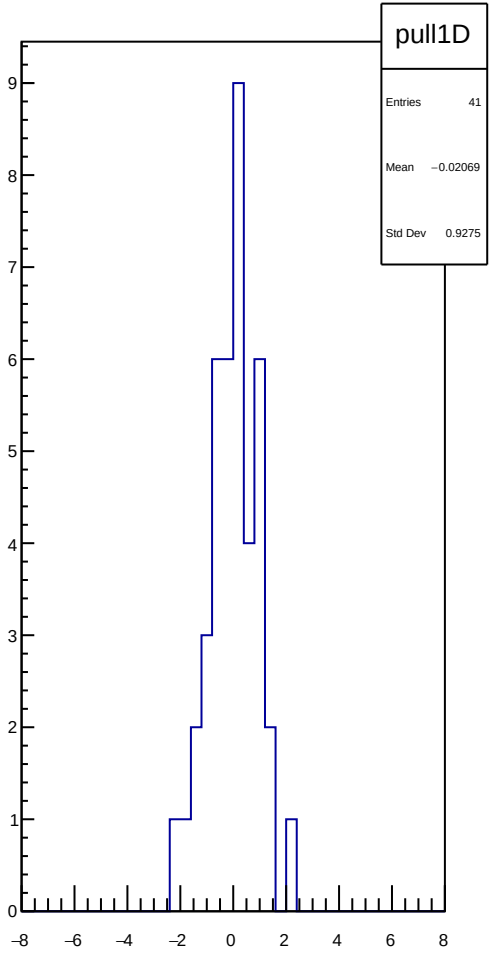
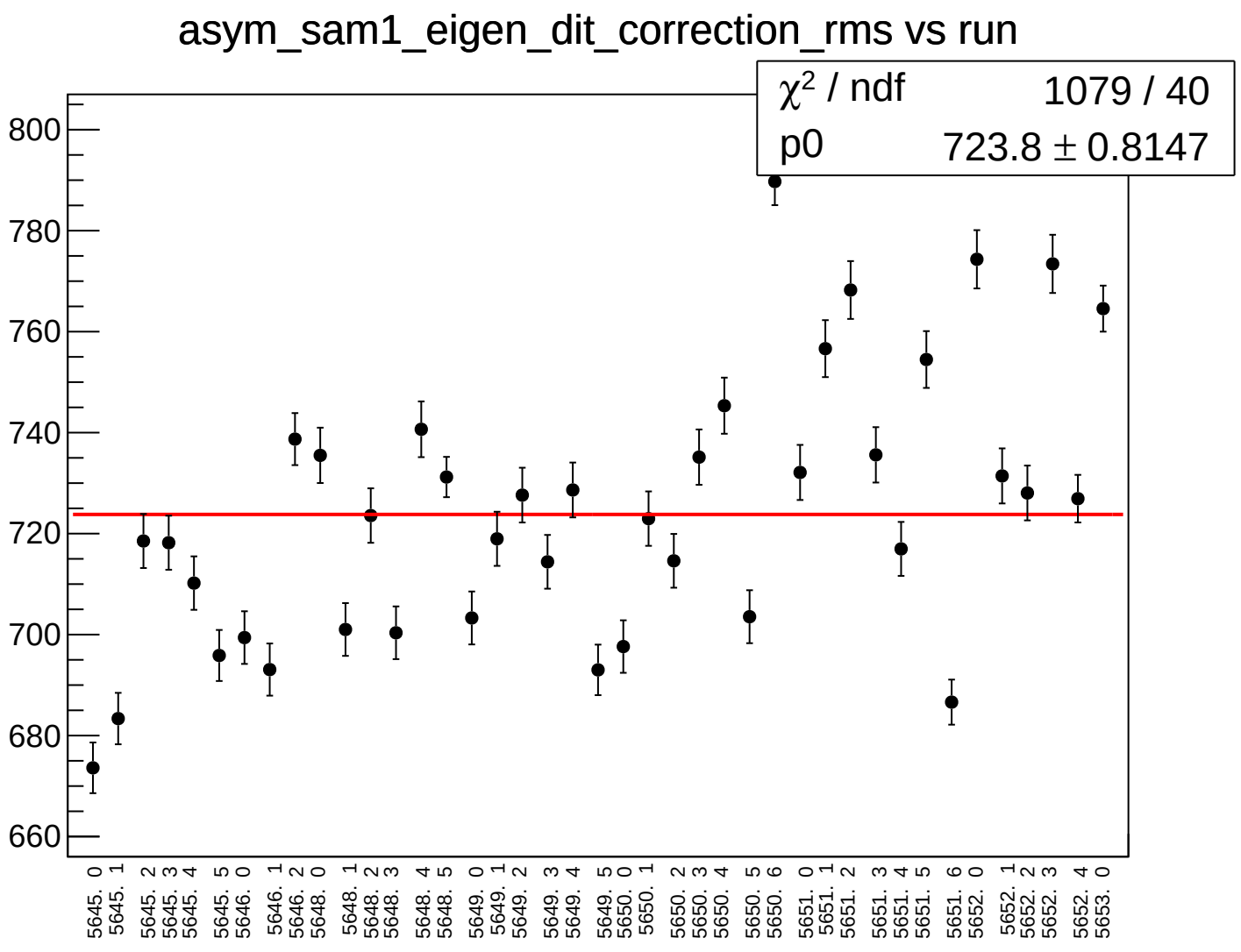
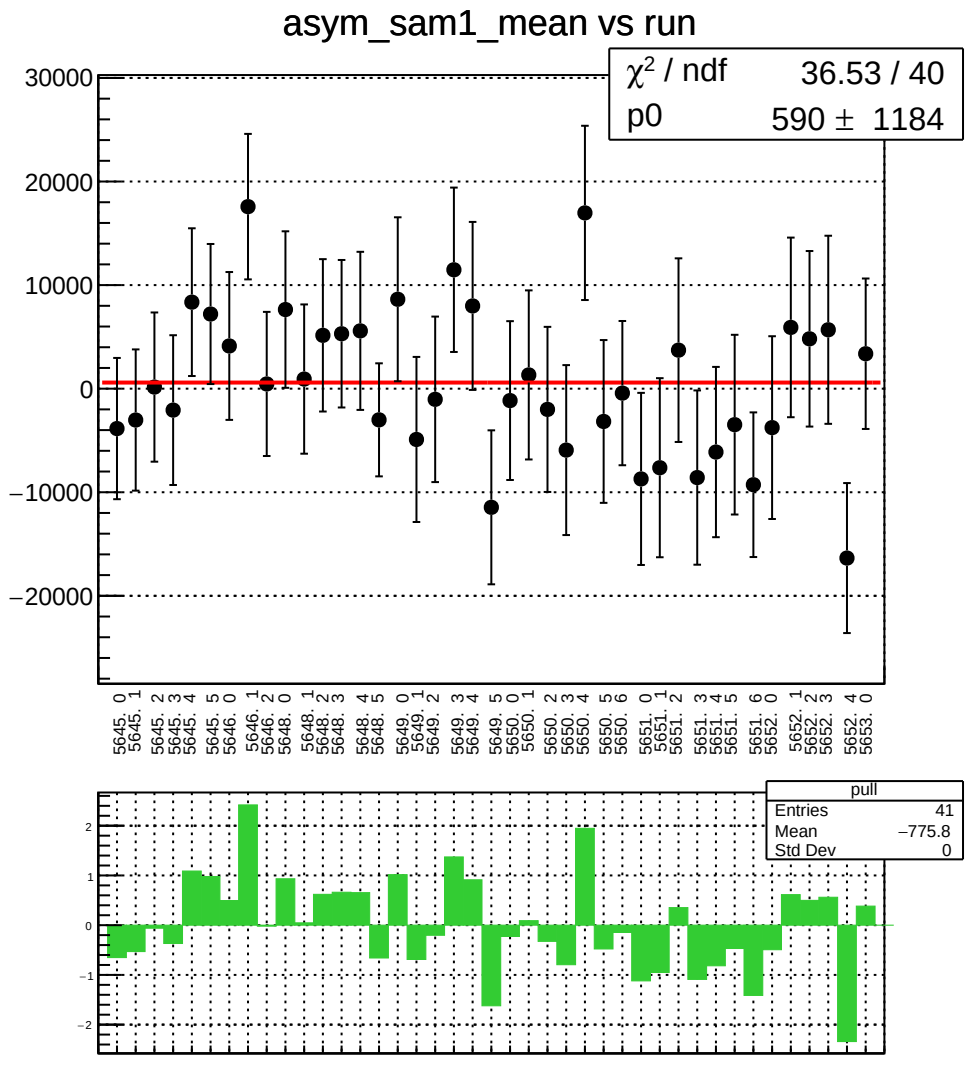
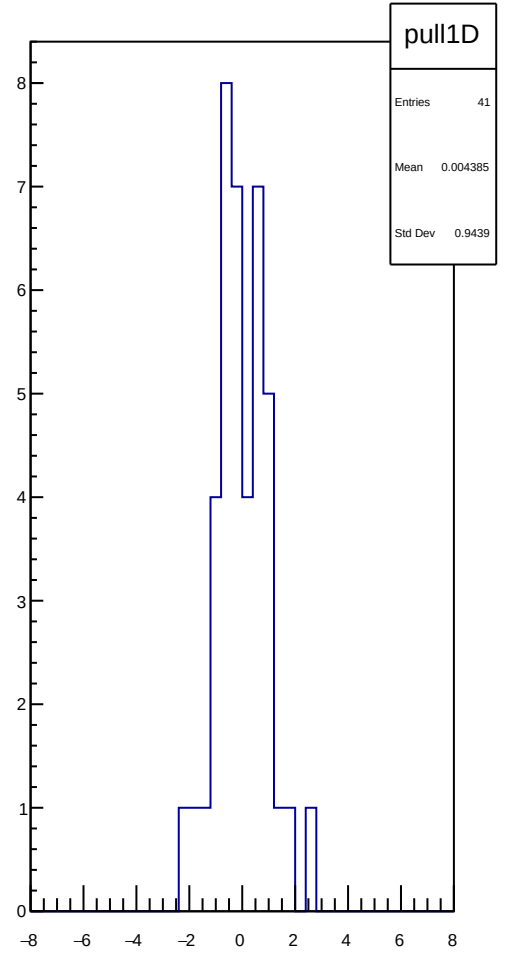
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

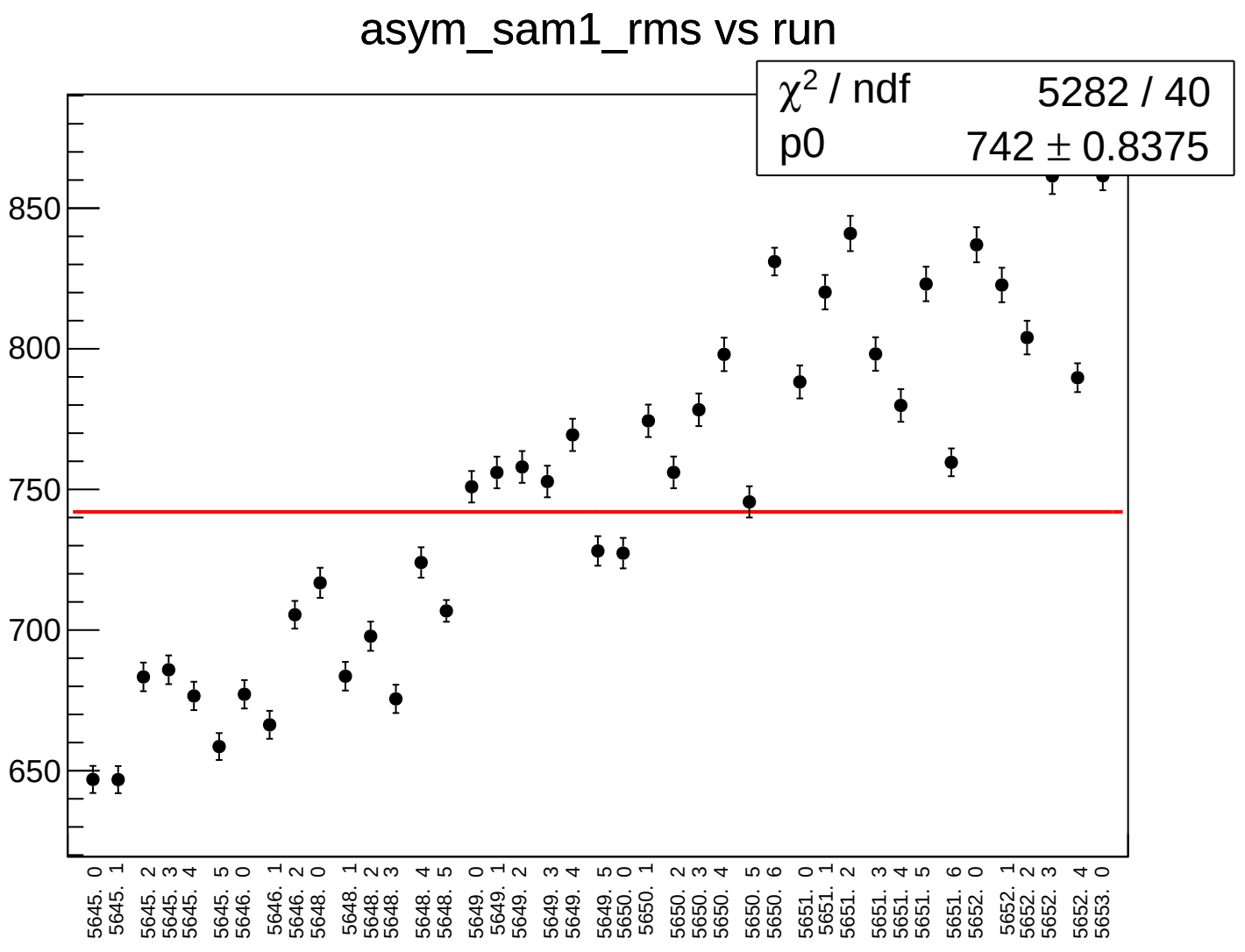

pull
Entries 41
Mean −117.6
Std Dev 0
2
1
0
−1
−2

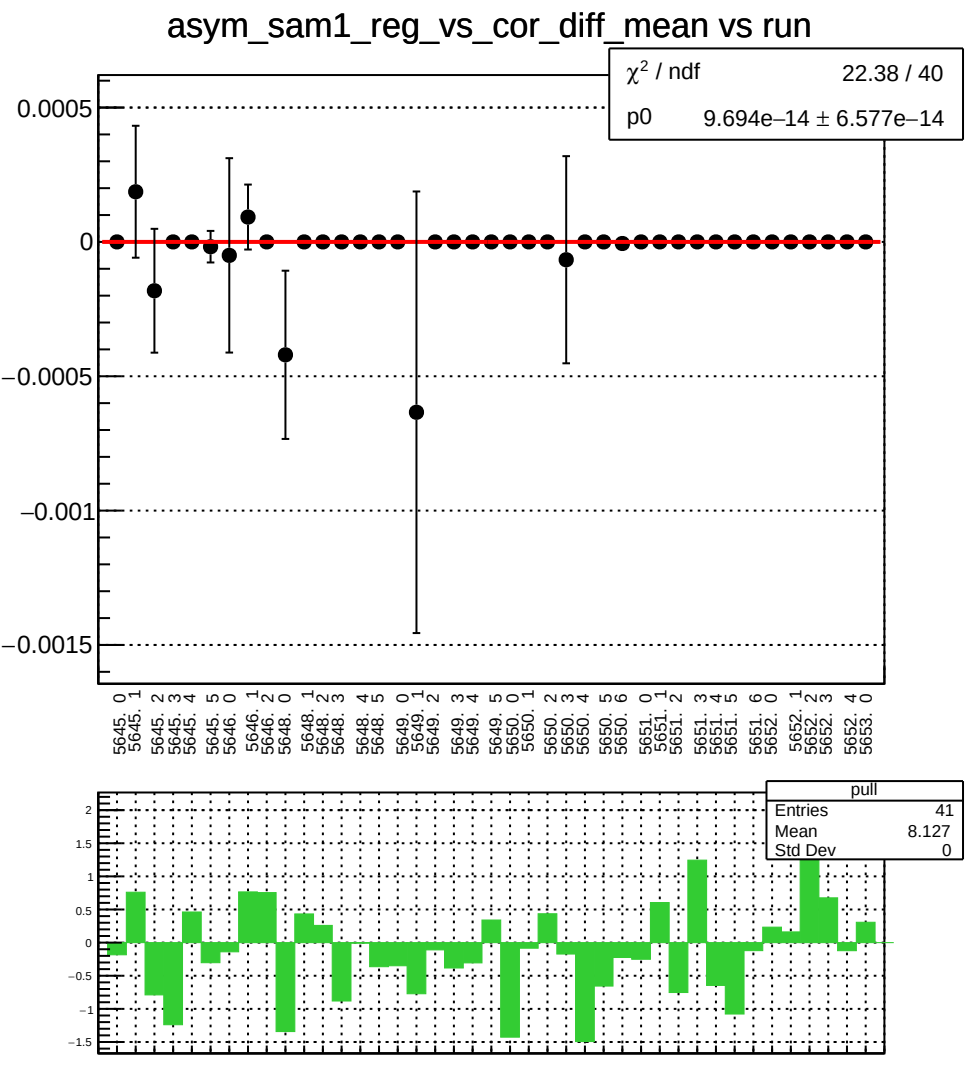

pull1D
Entries 41
Mean −0.02069
Std Dev 0.9275
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

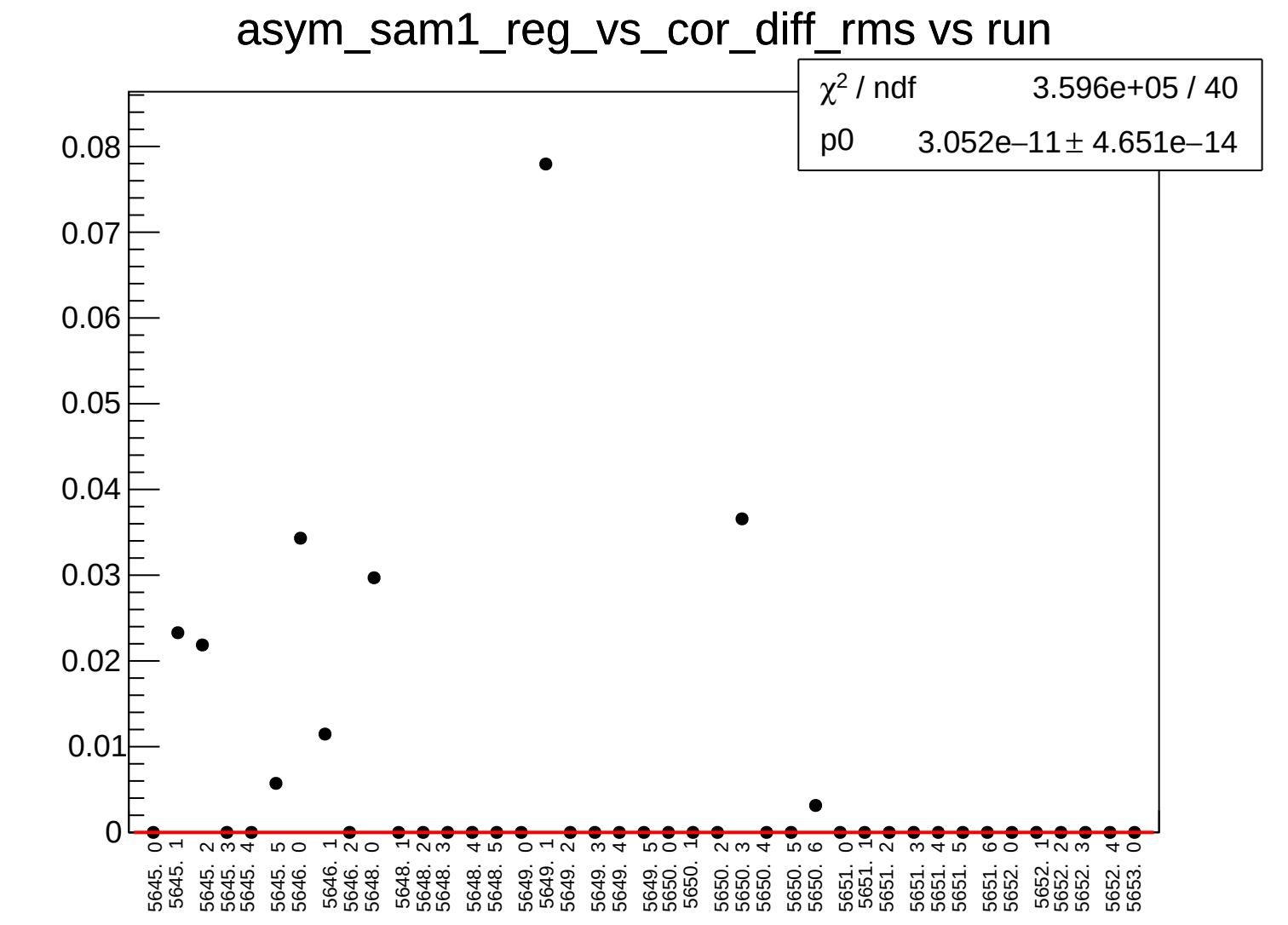

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1079 / 40
p0 723.8 ± 0.8147
800
780
760
740
720
700
680
660
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

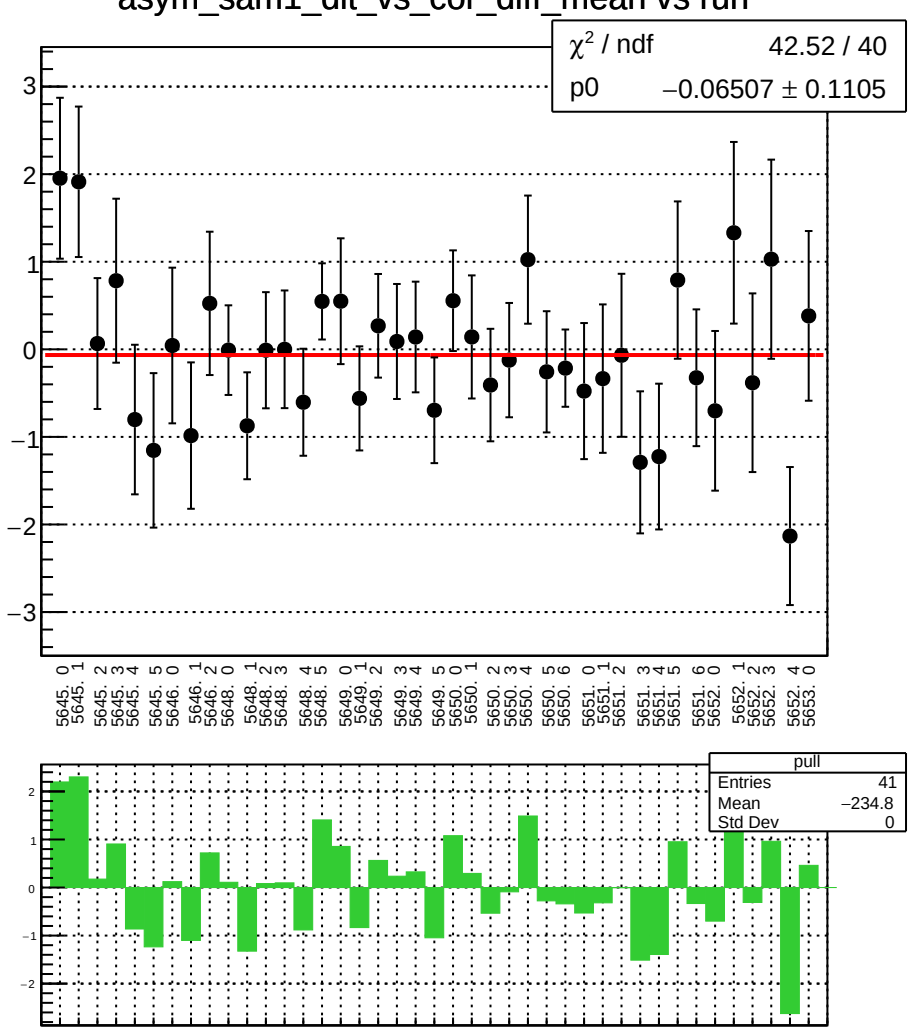

asym_sam1_mean vs run
χ² / ndf 36.53 / 40
p0 590 ± 1184
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −775.8
Std Dev 0
2
1
0
−1
−2

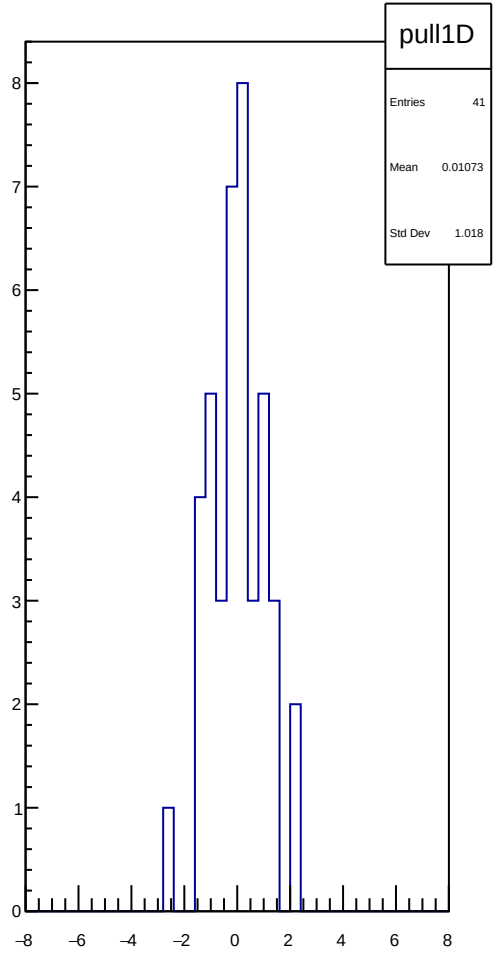

pull1D
Entries 41
Mean 0.004385
Std Dev 0.9439
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

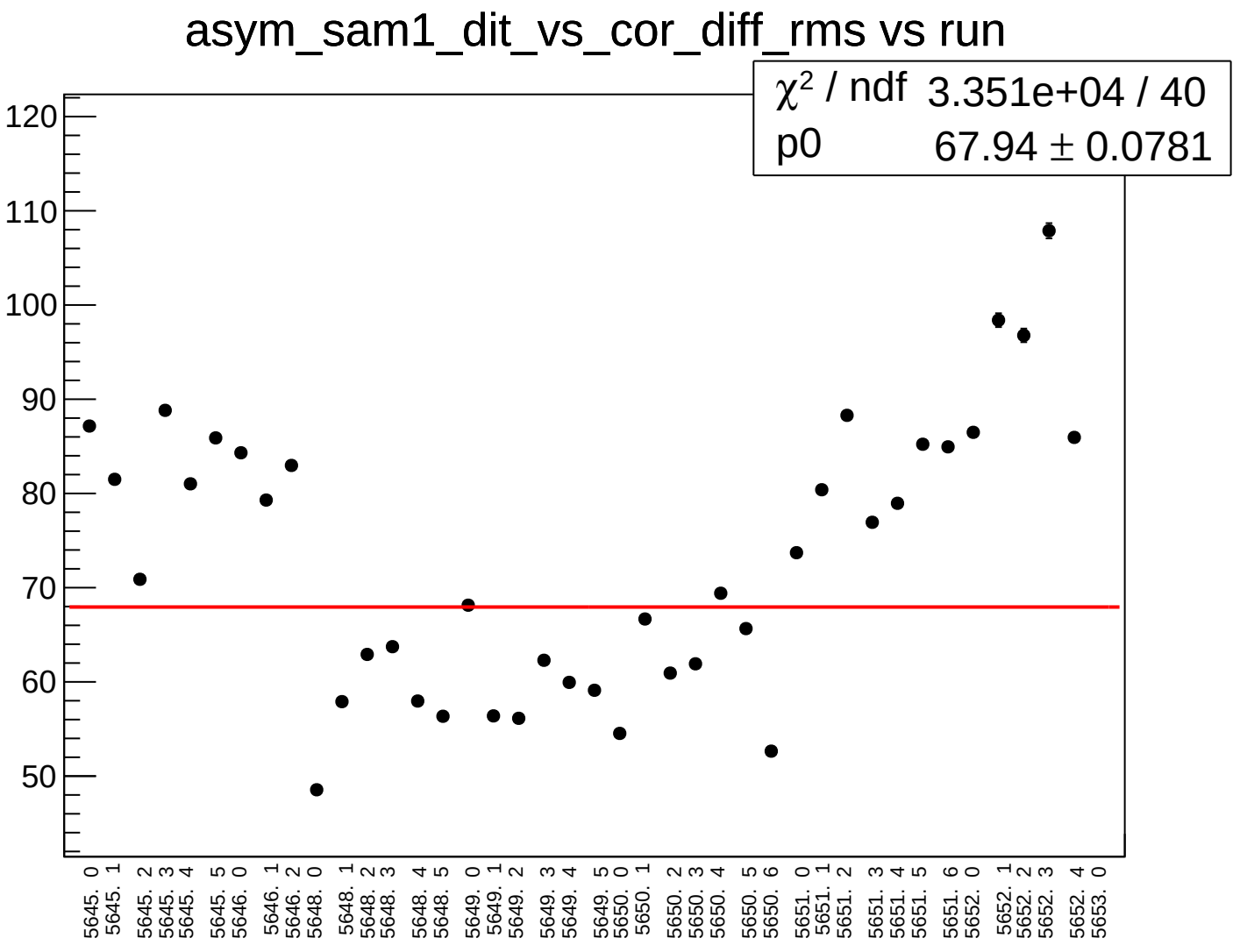

asym_sam1_rms vs run
χ² / ndf 5282 / 40
p0 742 ± 0.8375
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

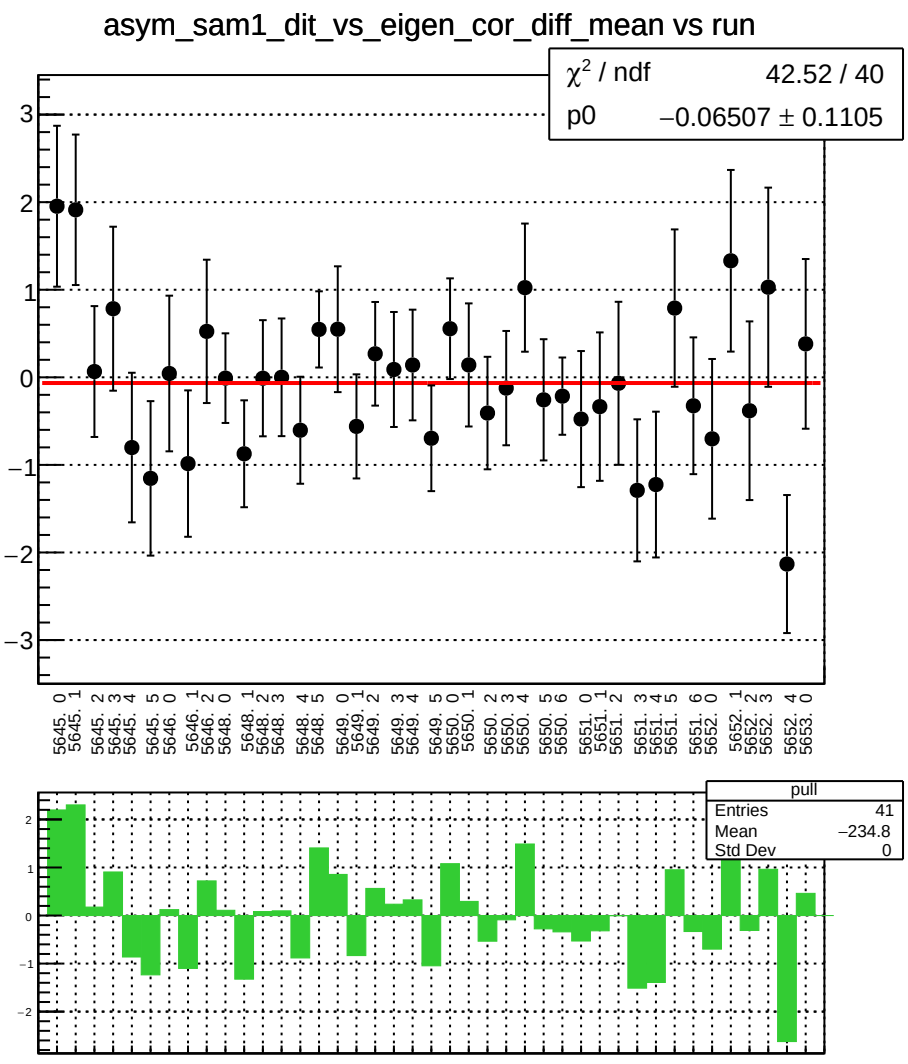

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 22.38 / 40
p0 9.694e−14 ± 6.577e−14
0.0005
0
−0.0005
−0.001
−0.0015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 8.127
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.1139
Std Dev 0.7299
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

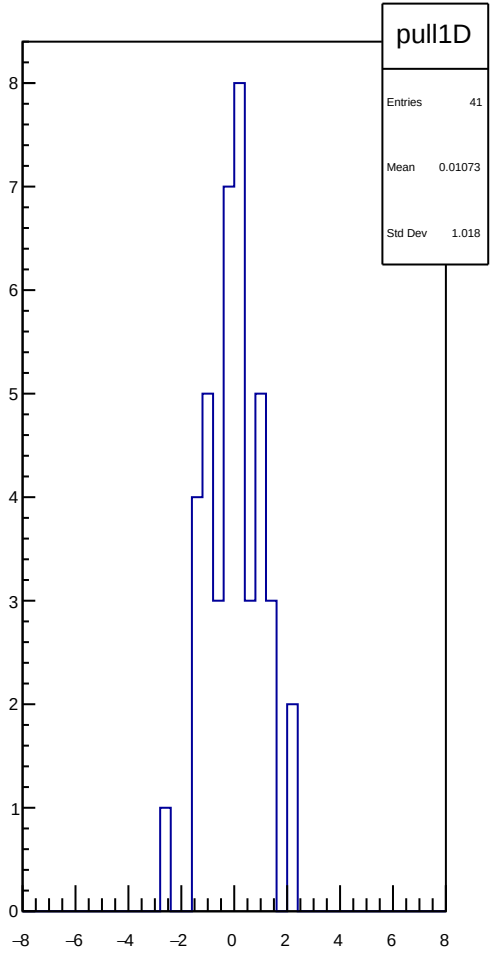

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 3.596e+05 / 40
p0 3.052e−11 ± 4.651e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

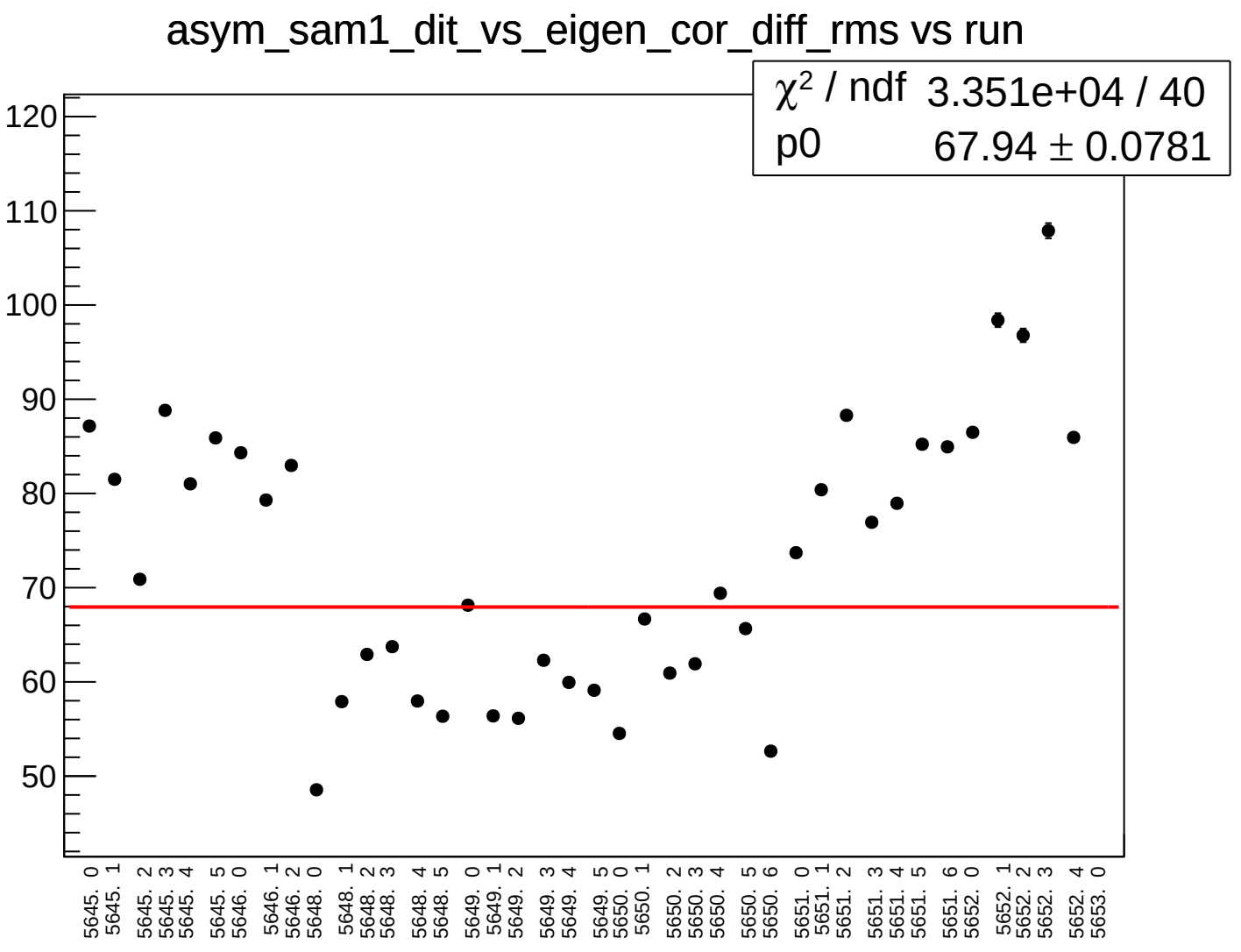

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 42.52 / 40
p0 −0.06507 ± 0.1105
pull
Entries 41
Mean −234.8
Std Dev 0

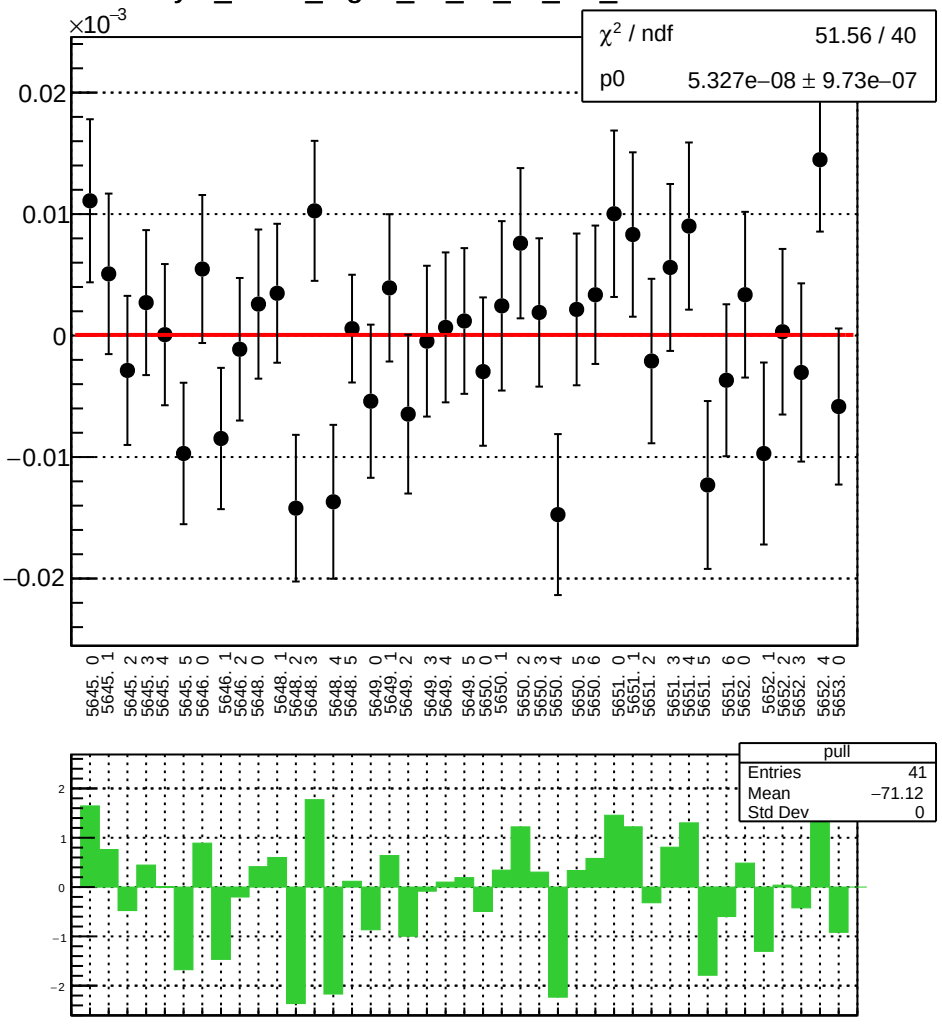

pull1D
Entries 41
Mean 0.01073
Std Dev 1.018

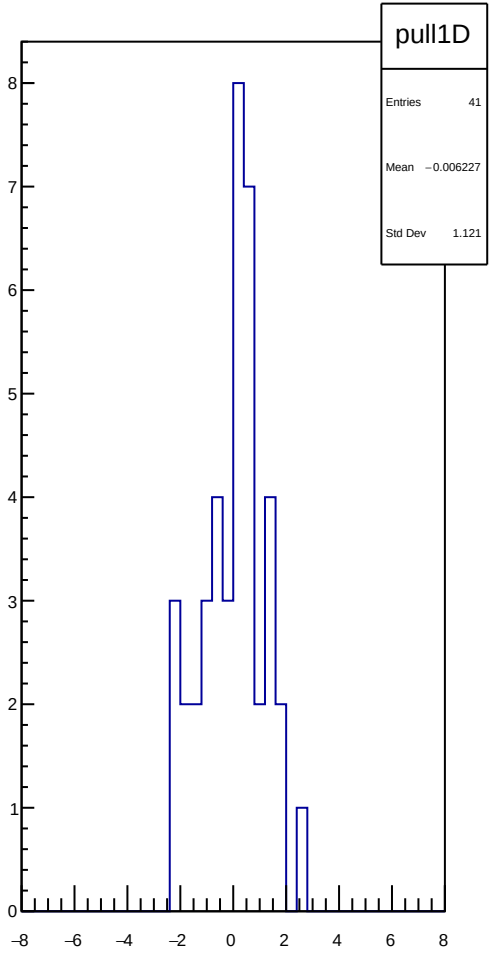

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.351e+04 / 40
p0 67.94 ± 0.0781
120
110
100
90
80
70
60
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

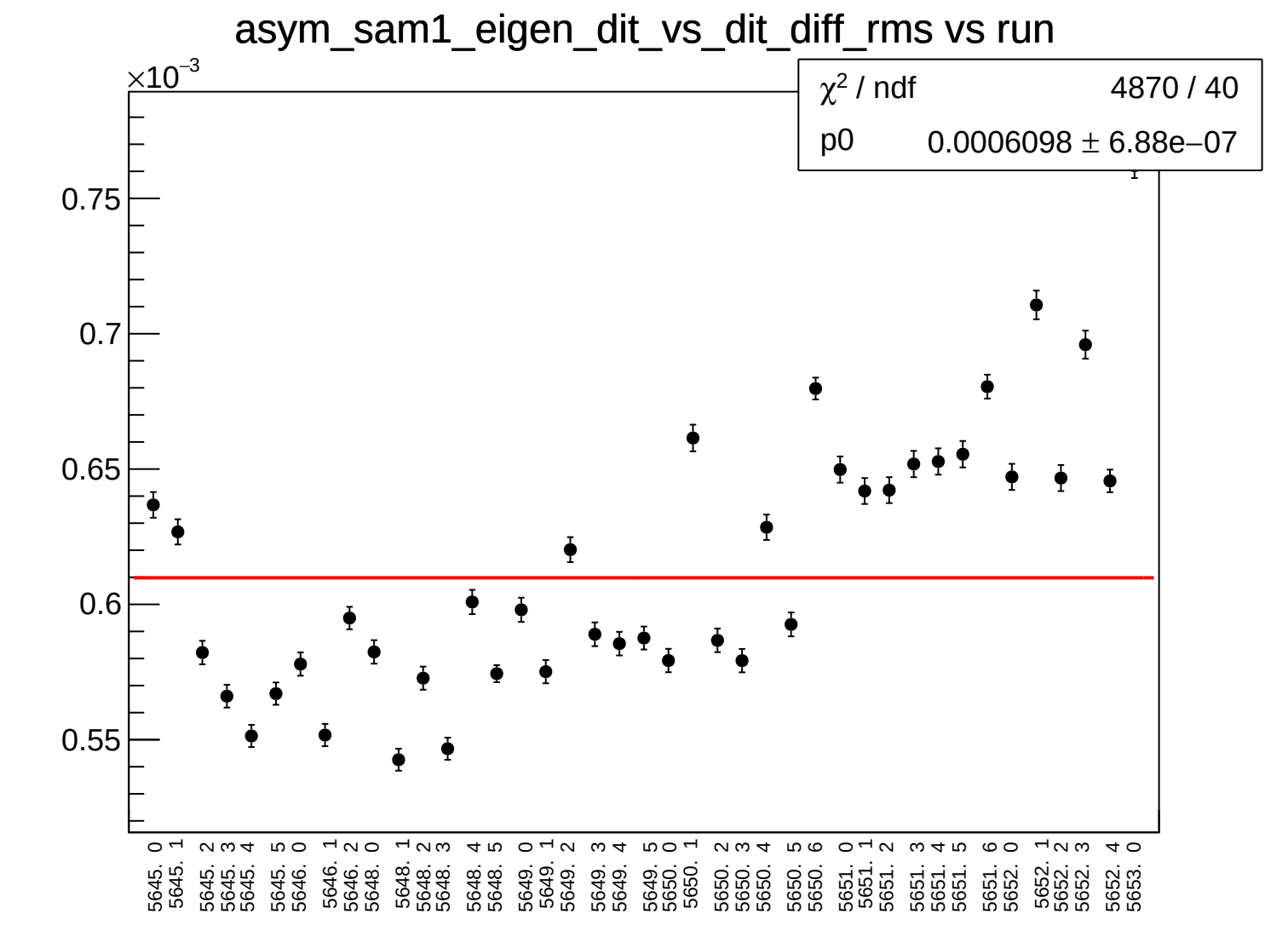

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.52 / 40
p0 −0.06507 ± 0.1105
pull
Entries 41
Mean −234.8
Std Dev 0

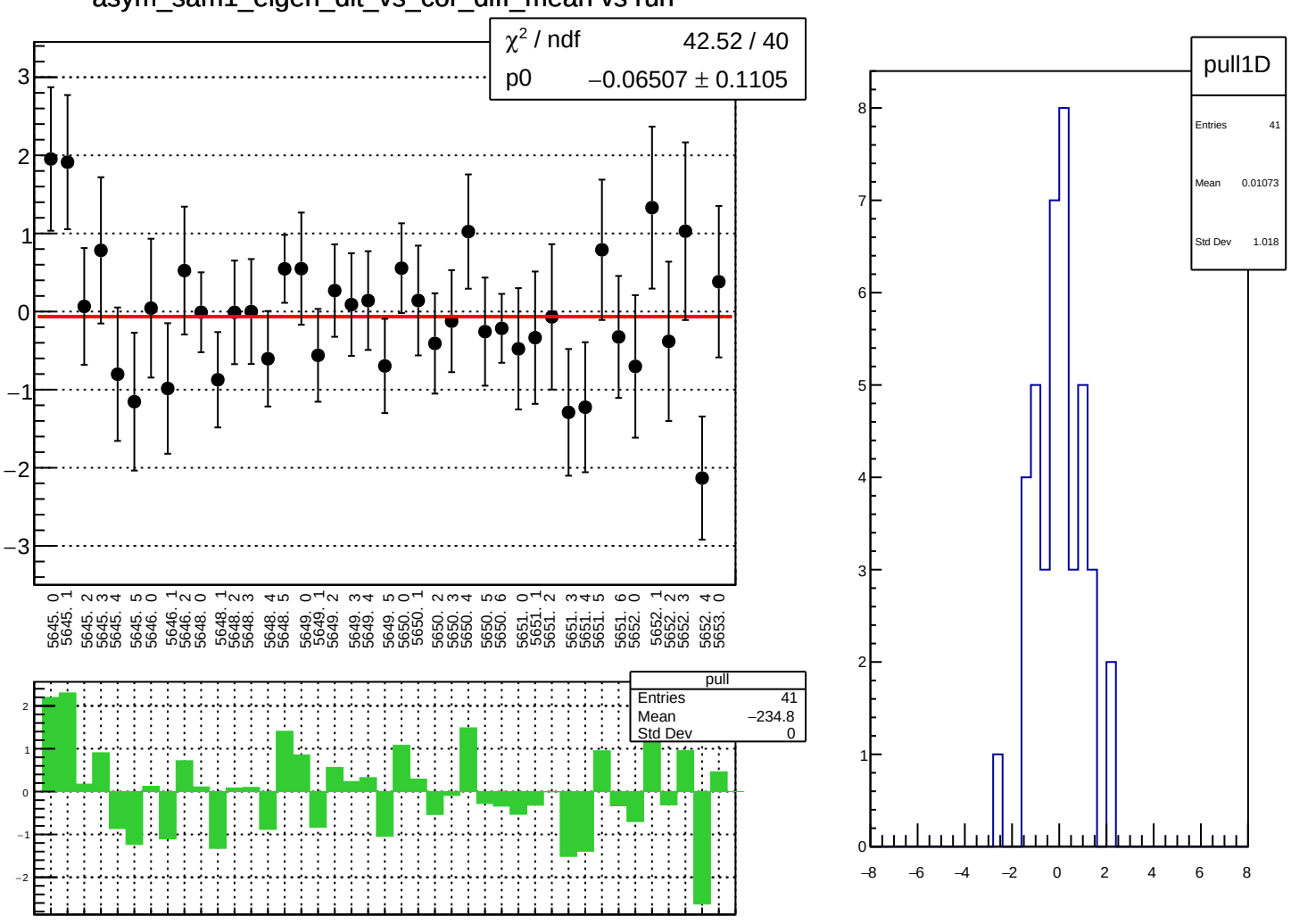

pull1D
Entries 41
Mean 0.01073
Std Dev 1.018

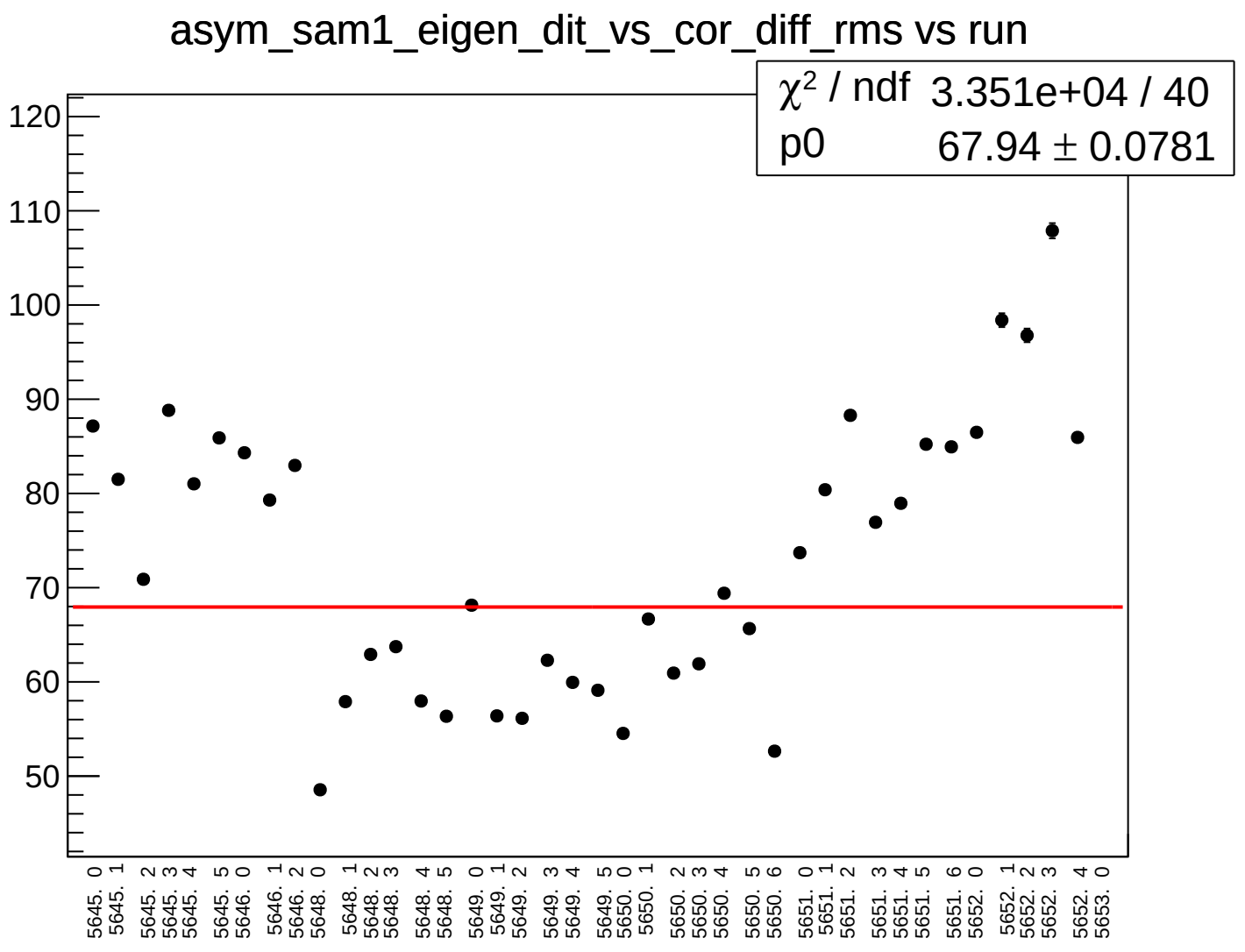

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.351e+04 / 40
p0 67.94 ± 0.0781
120
110
100
90
80
70
60
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

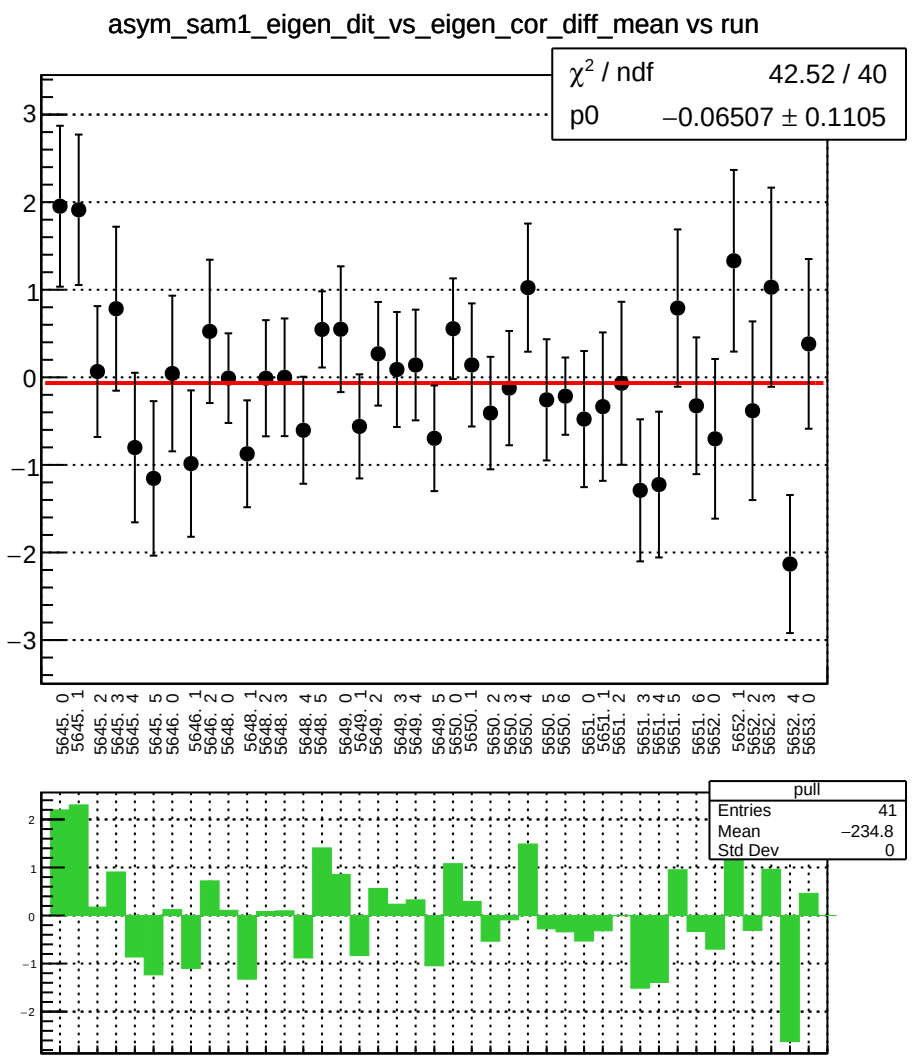

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.56 / 40
p0 5.327e−08 ± 9.73e−07
0.02
0.01
0
−0.01
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −71.12
Std Dev 0
2
1
0
−1
−2

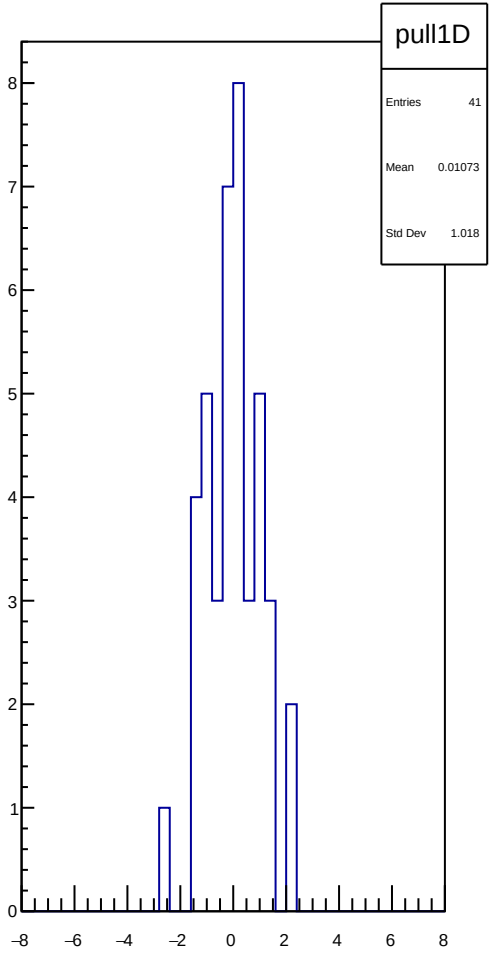

pull1D
Entries 41
Mean −0.006227
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

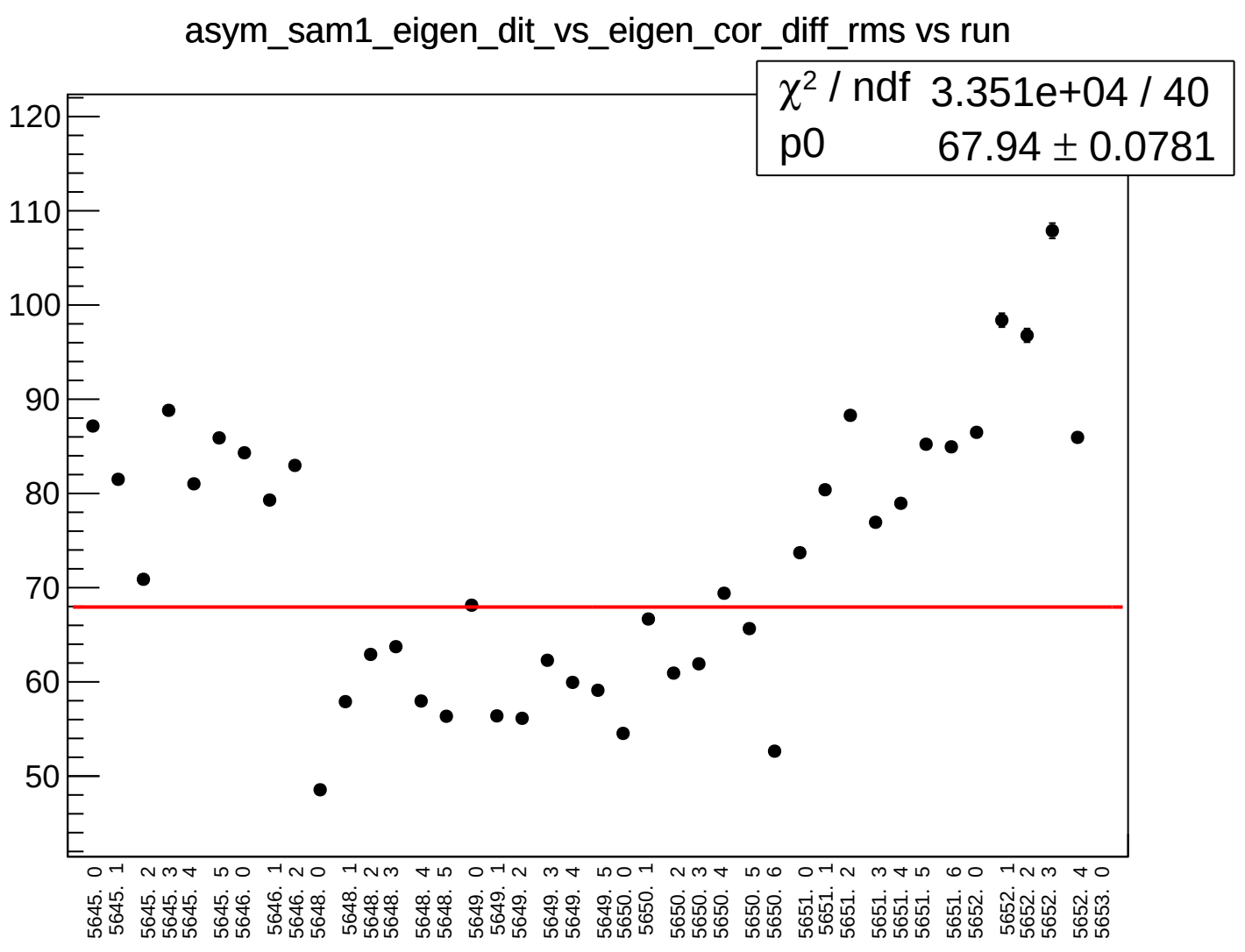

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4870 / 40
p0 0.0006098 ± 6.88e−07
0.75
0.7
0.65
0.6
0.55
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

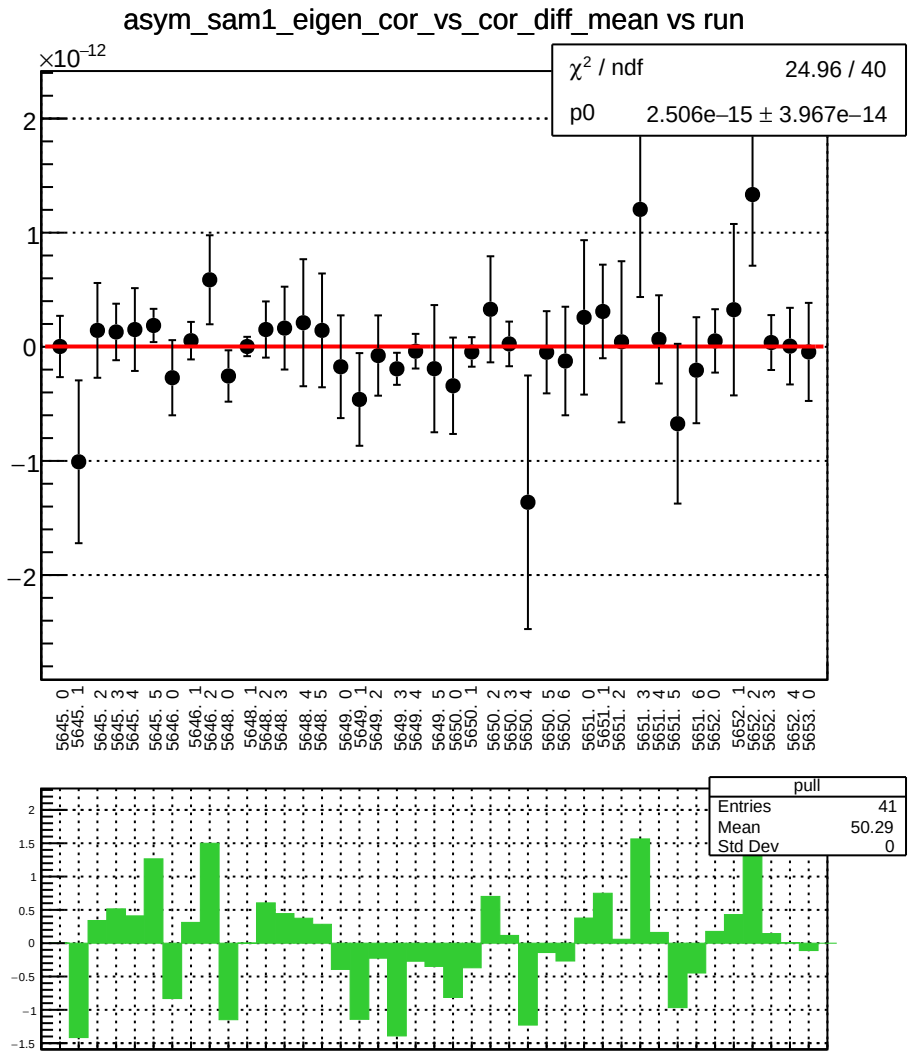

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.52 / 40
p0 −0.06507 ± 0.1105
pull
Entries 41
Mean −234.8
Std Dev 0
pull1D
Entries 41
Mean 0.01073
Std Dev 1.018

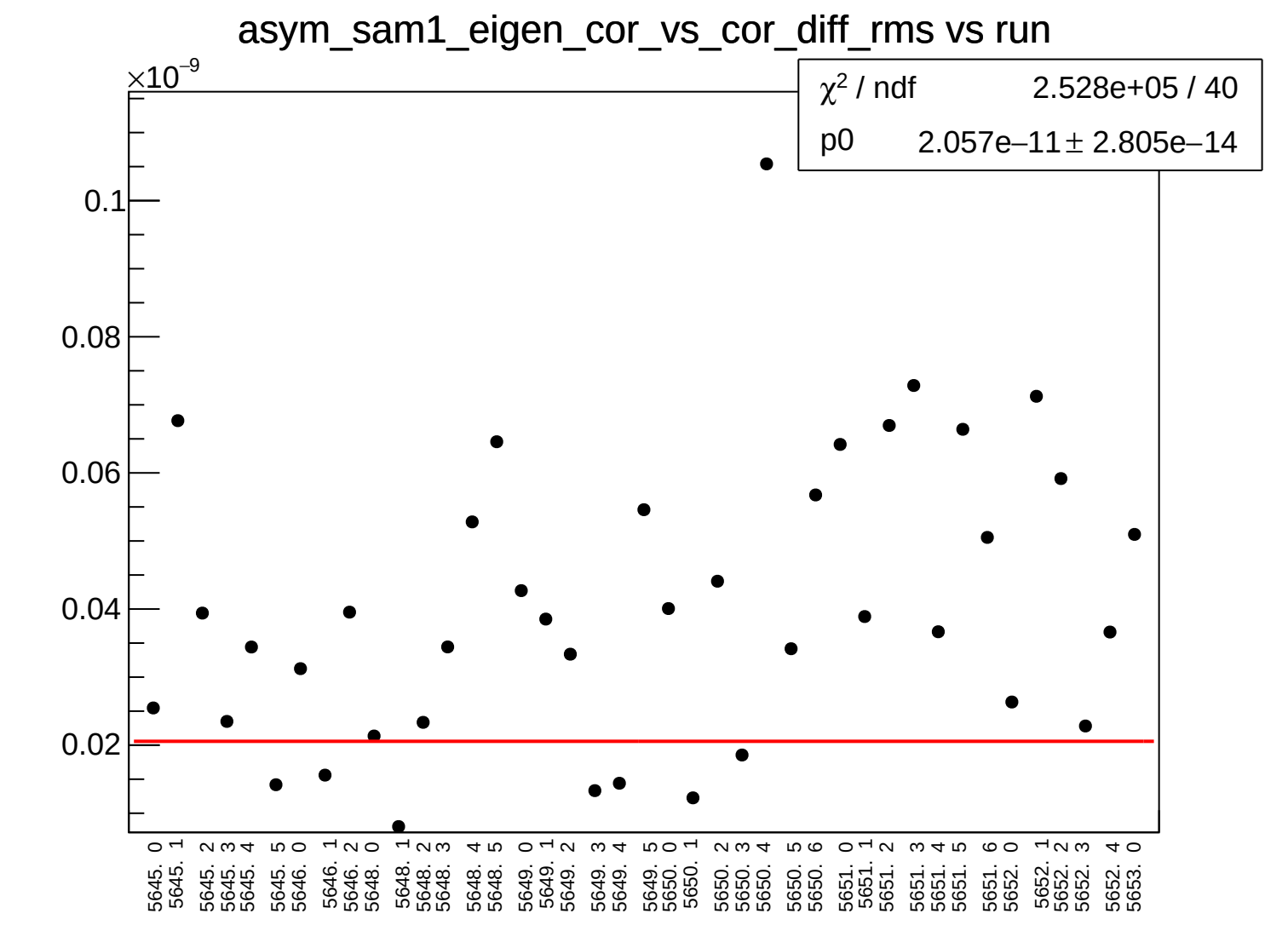

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.351e+04 / 40
p0 67.94 ± 0.0781
120
110
100
90
80
70
60
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

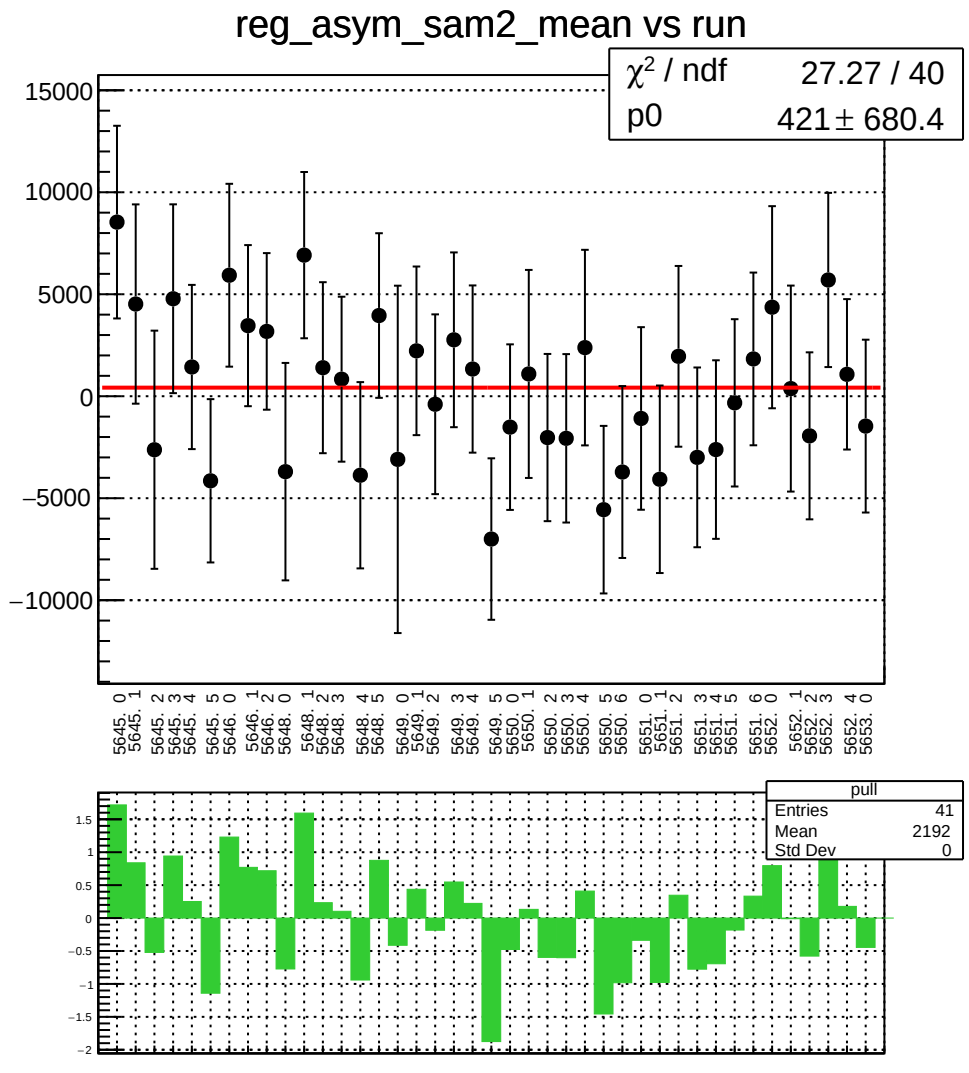

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.52 / 40
p0 −0.06507 ± 0.1105
pull
Entries 41
Mean −234.8
Std Dev 0

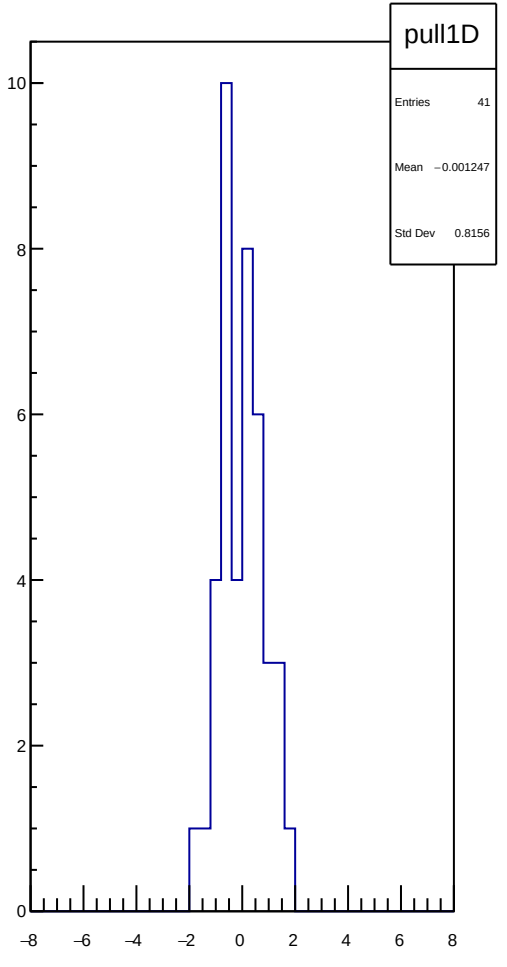

pull1D
Entries 41
Mean 0.01073
Std Dev 1.018

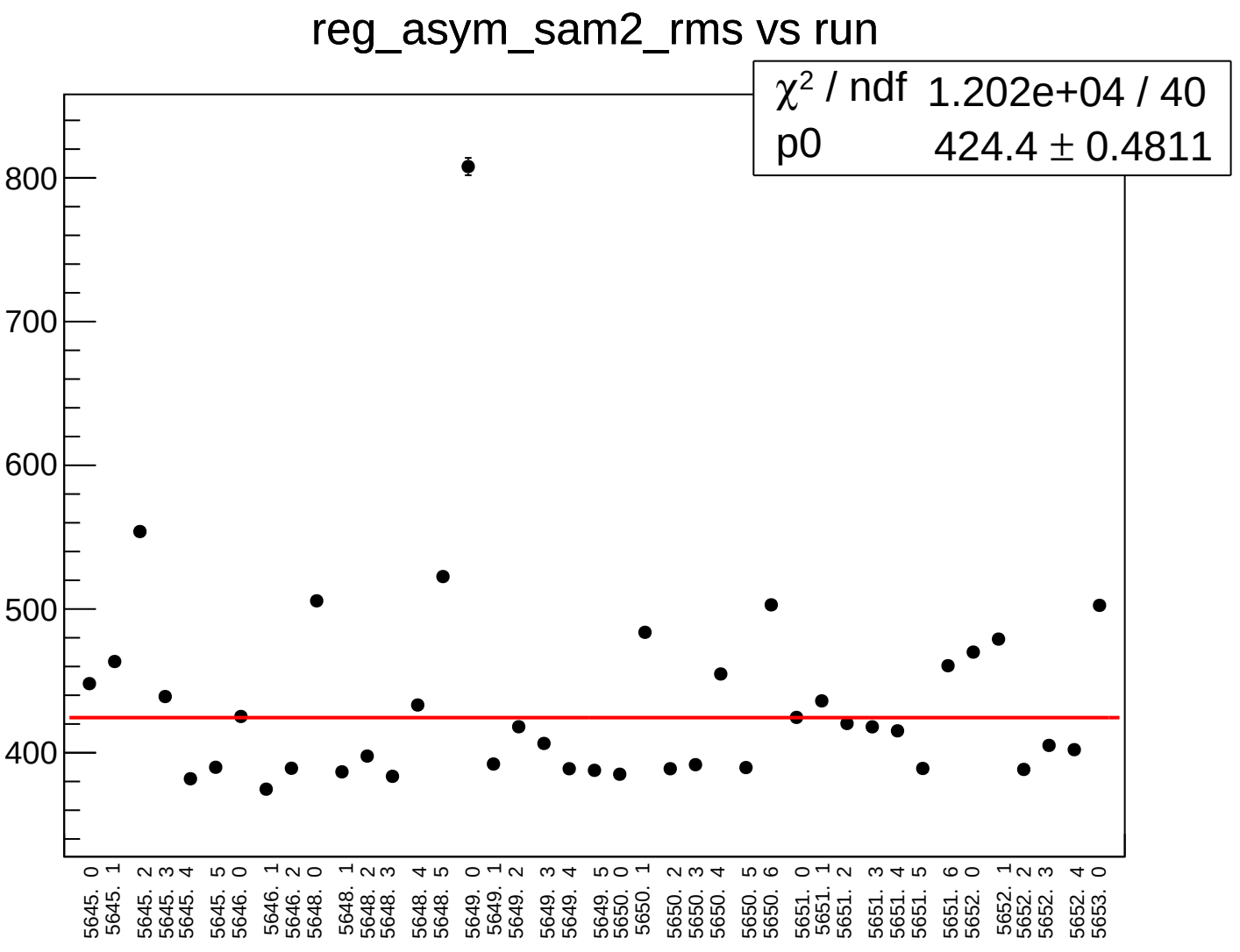

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.351e+04 / 40
p0 67.94 ± 0.0781
120
110
100
90
80
70
60
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

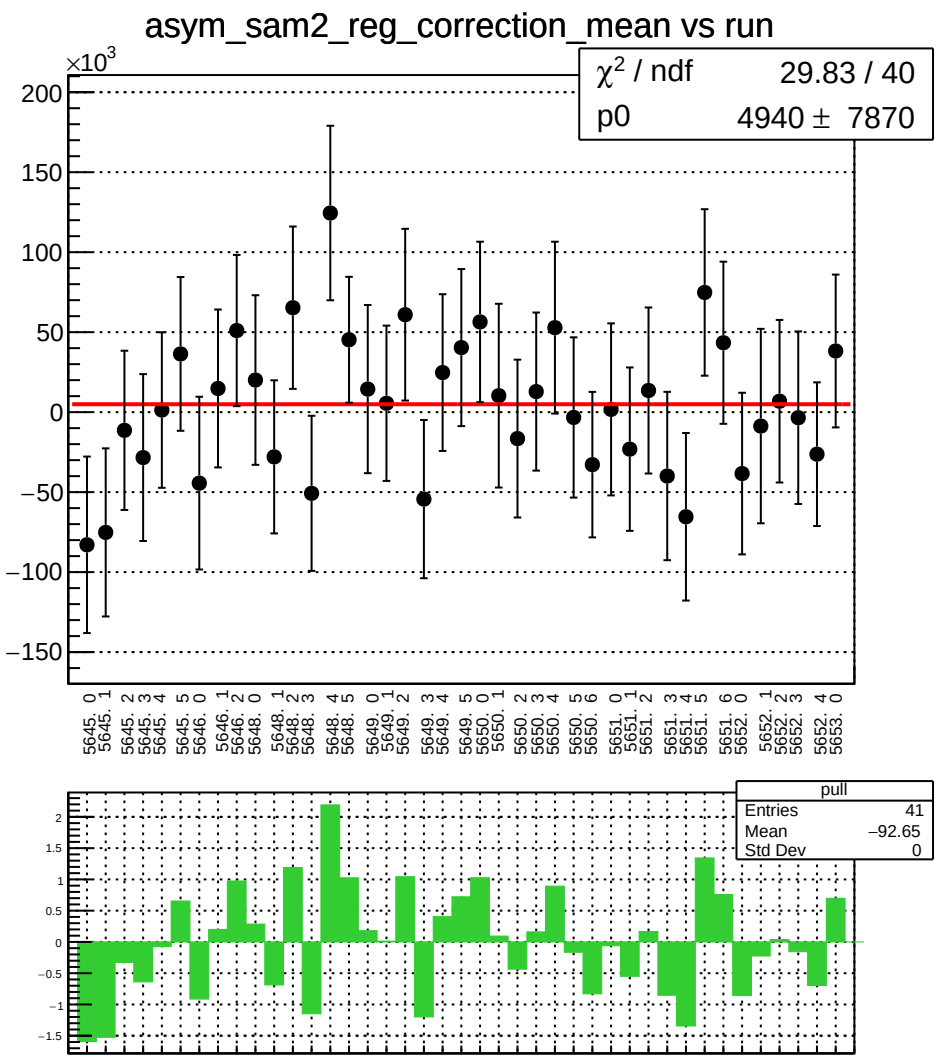

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 24.96 / 40
p0 2.506e−15 ± 3.967e−14
pull
Entries 41
Mean 50.29
Std Dev 0
pull1D
Entries 41
Mean 0.02853
Std Dev 0.7798

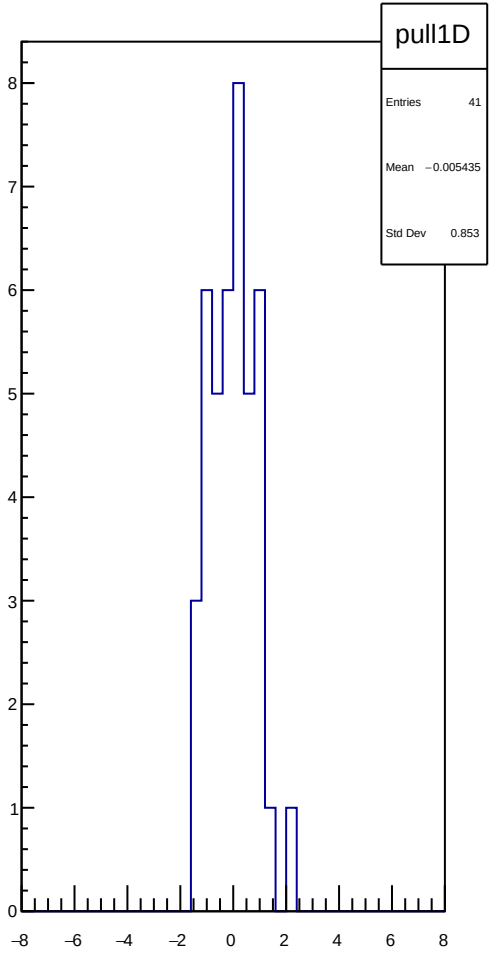

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.528e+05 / 40
p0 2.057e−11 ± 2.805e−14
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

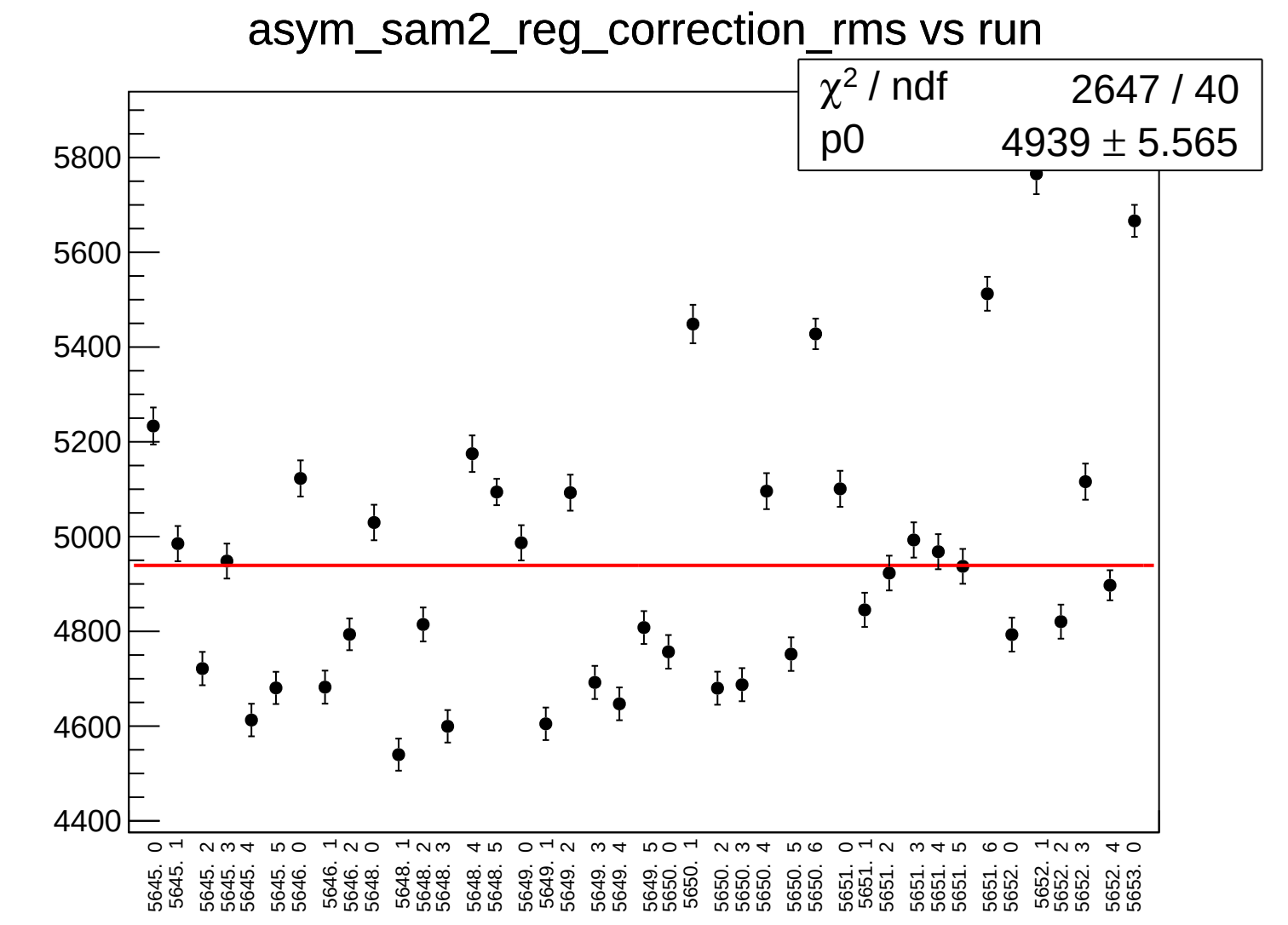

reg_asym_sam2_mean vs run
χ² / ndf 27.27 / 40
p0 421 ± 680.4
15000
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2192
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

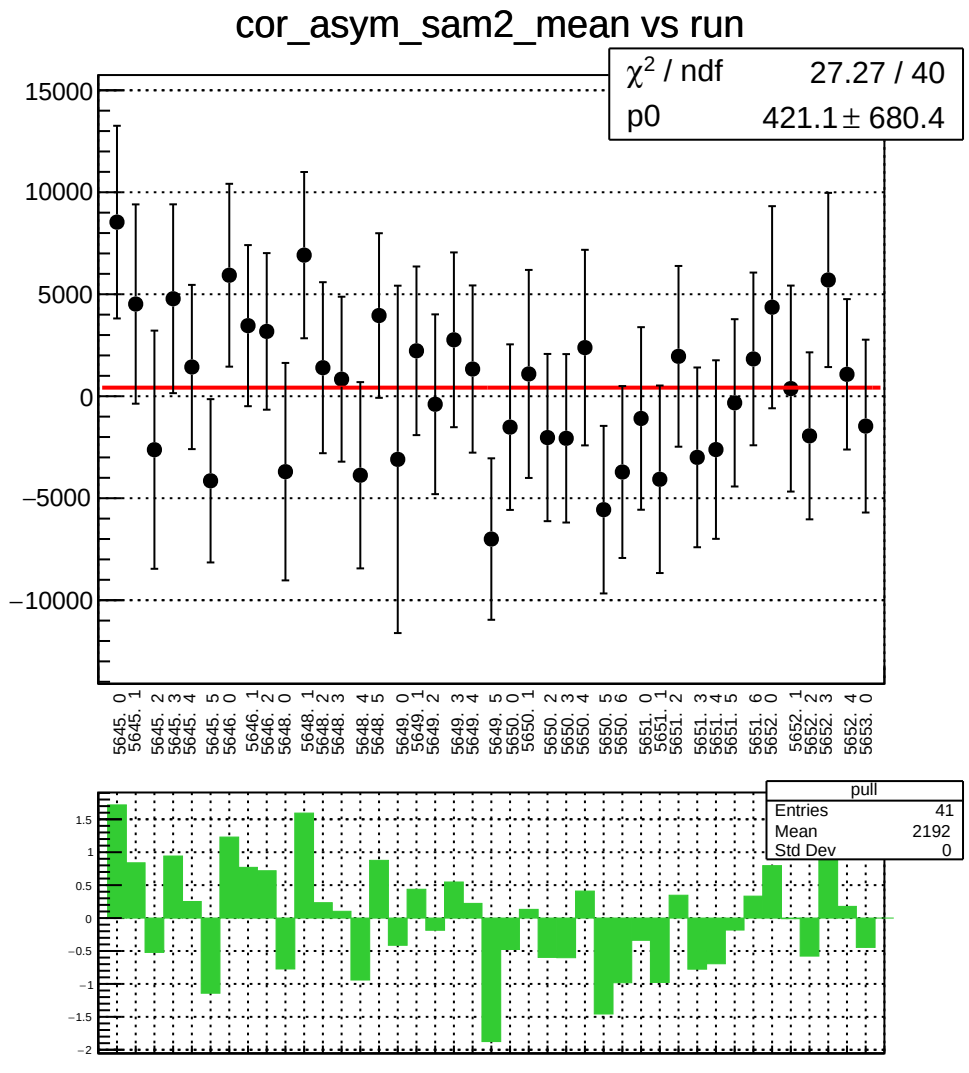

pull1D
Entries 41
Mean −0.001247
Std Dev 0.8156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

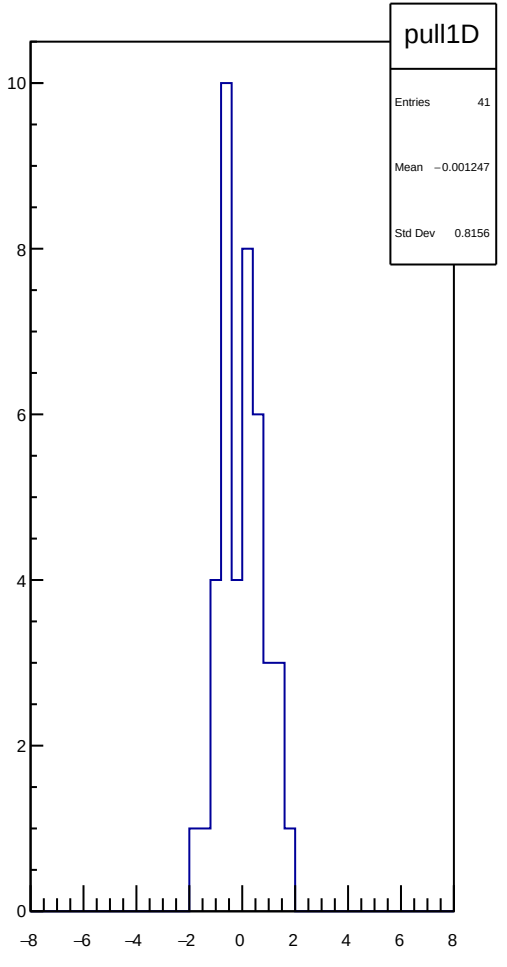

reg_asym_sam2_rms vs run
χ² / ndf 1.202e+04 / 40
p0 424.4 ± 0.4811
800
700
600
500
400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

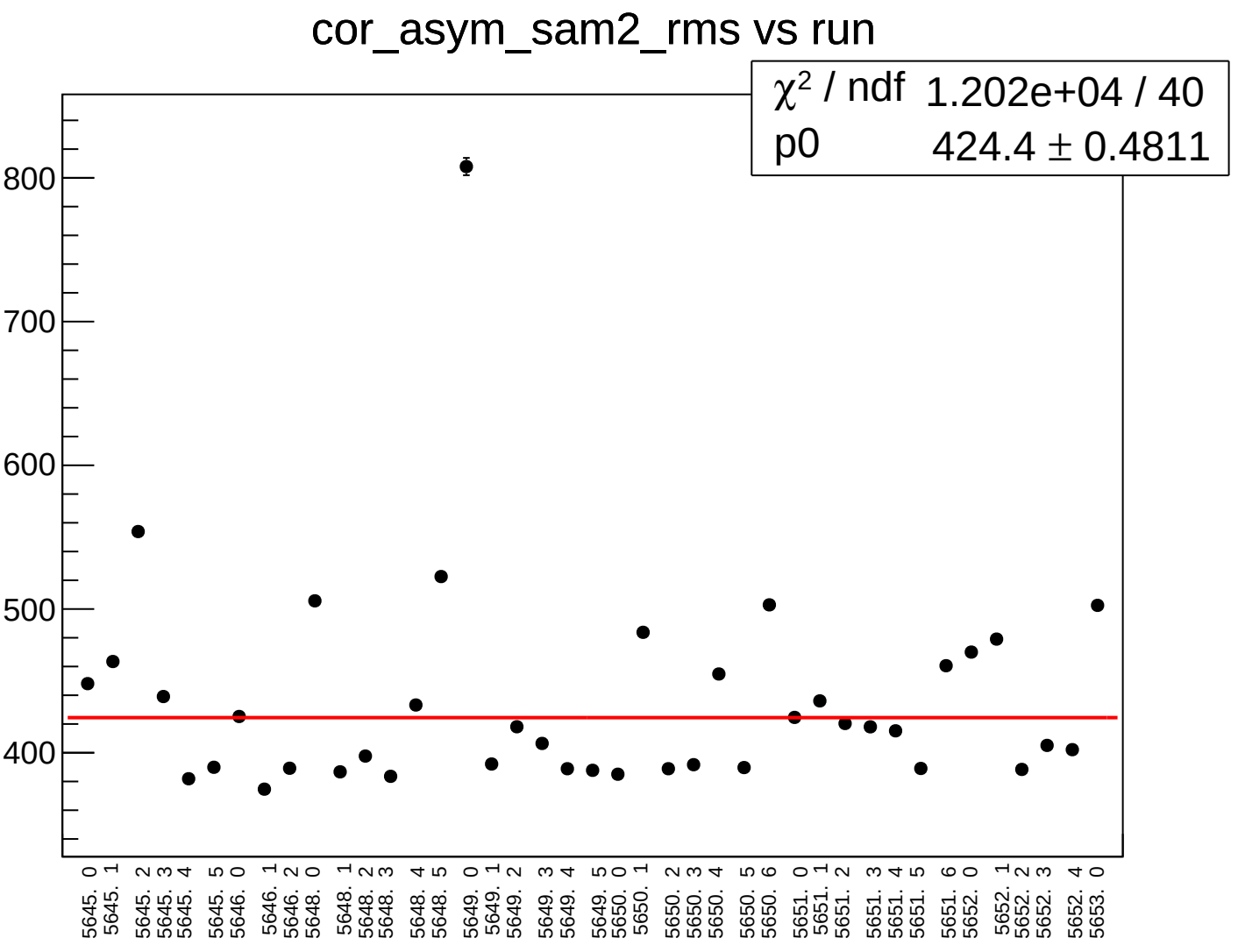

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 29.83 / 40
p0 4940 ± 7870
200
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −92.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

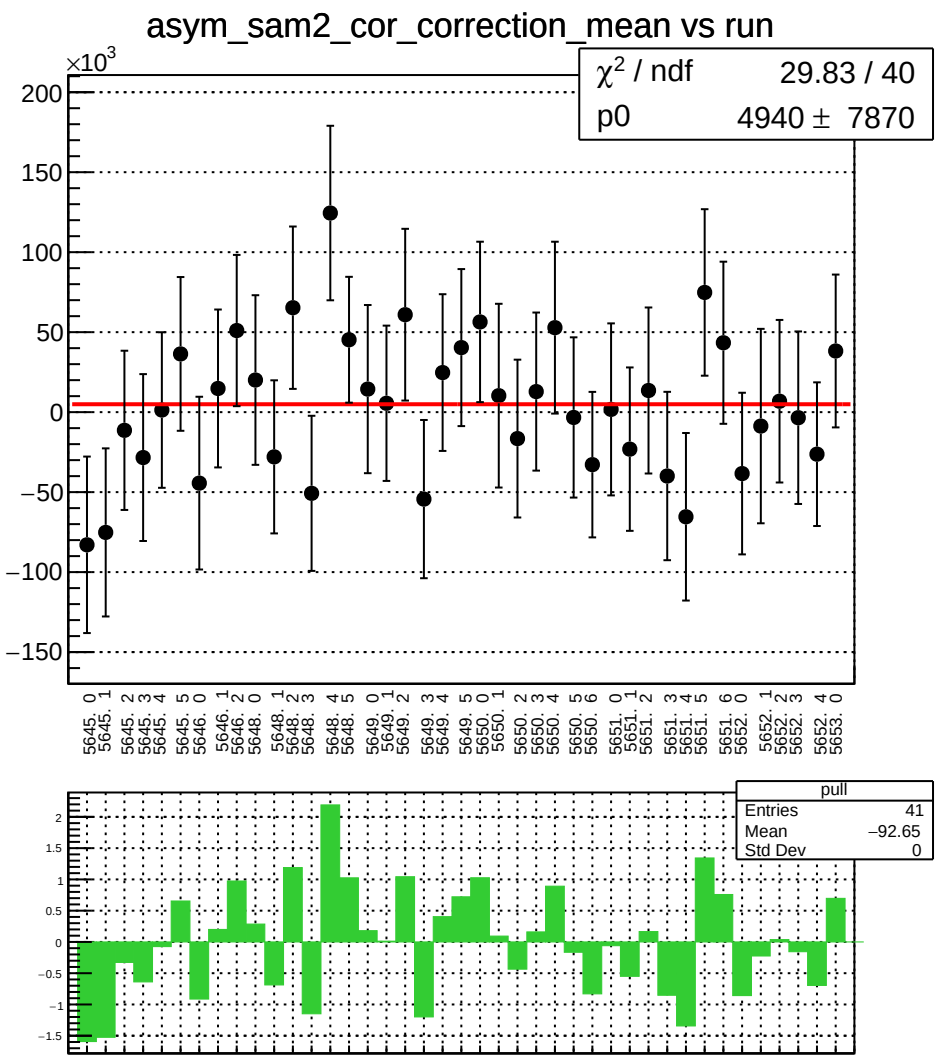

pull1D
Entries 41
Mean −0.005435
Std Dev 0.853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

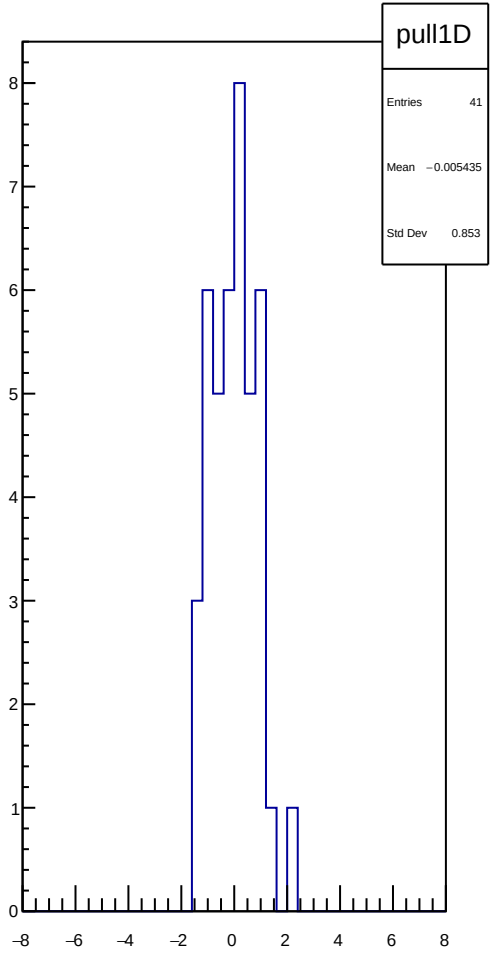

asym_sam2_reg_correction_rms vs run
χ² / ndf 2647 / 40
p0 4939 ± 5.565
5800
5600
5400
5200
5000
4800
4600
4400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

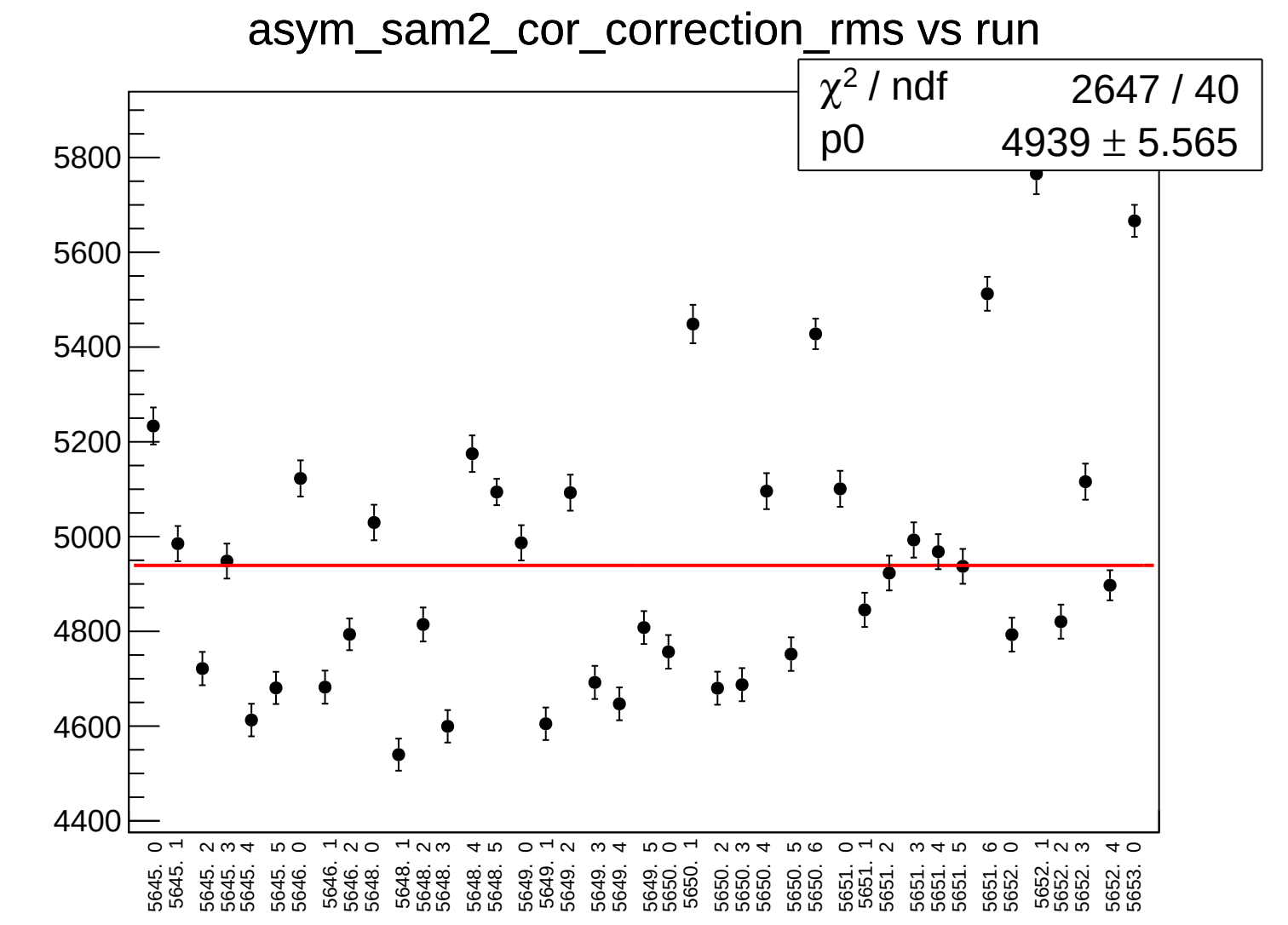

cor_asym_sam2_mean vs run
χ² / ndf 27.27 / 40
p0 421.1 ± 680.4
15000
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2192
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.001247
Std Dev 0.8156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 1.202e+04 / 40
p0 424.4 ± 0.4811
800
700
600
500
400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 29.83 / 40
p0 4940 ± 7870
200
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −92.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.005435
Std Dev 0.853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_cor_correction_rms vs run
χ² / ndf 2647 / 40
p0 4939 ± 5.565
5800
5600
5400
5200
5000
4800
4600
4400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
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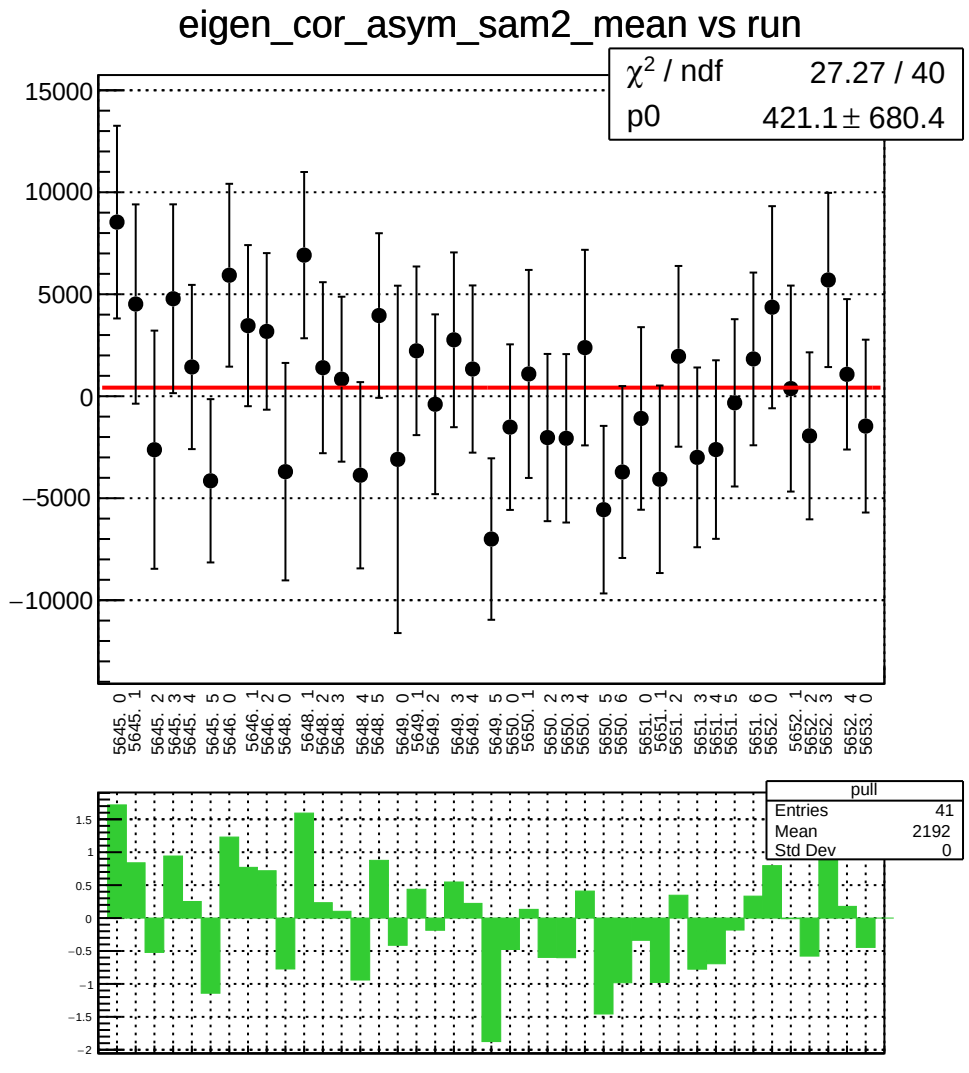
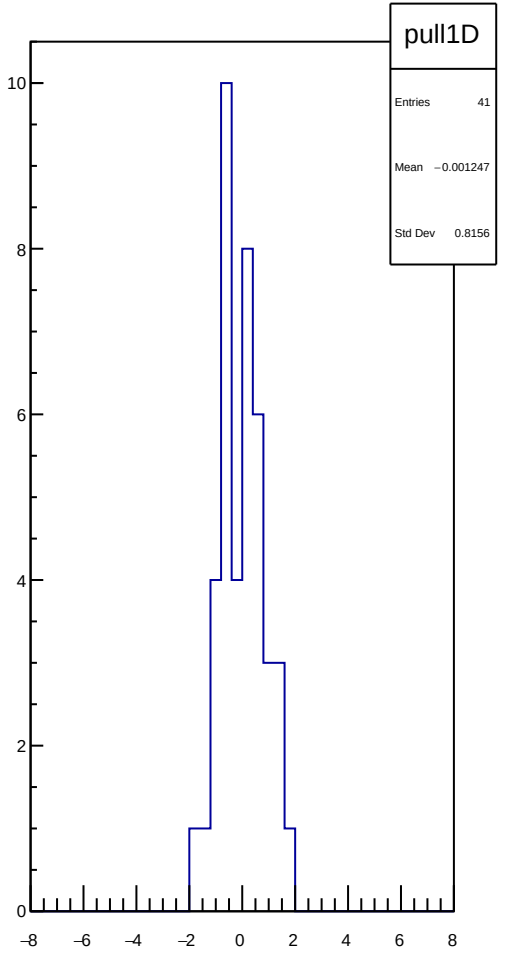
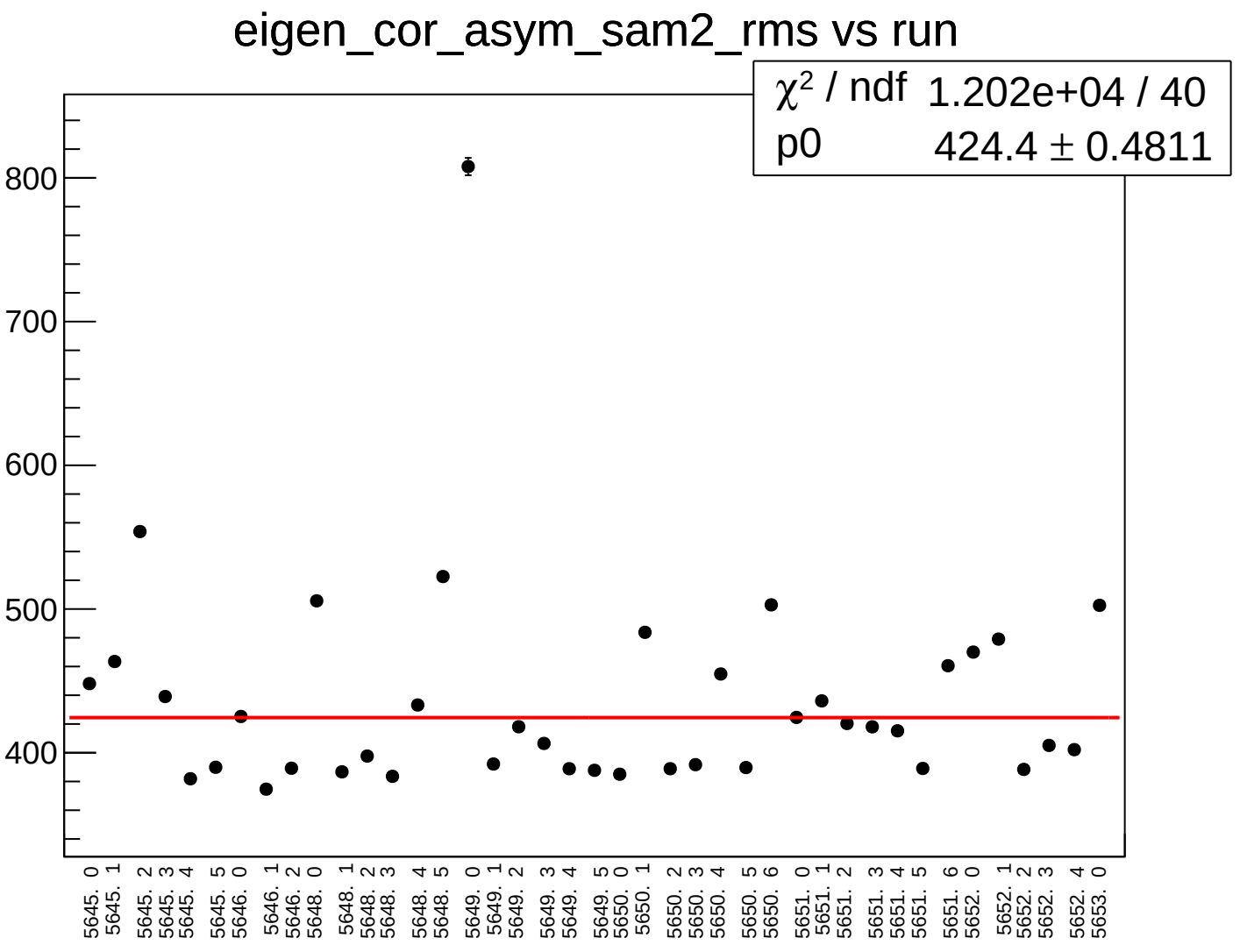
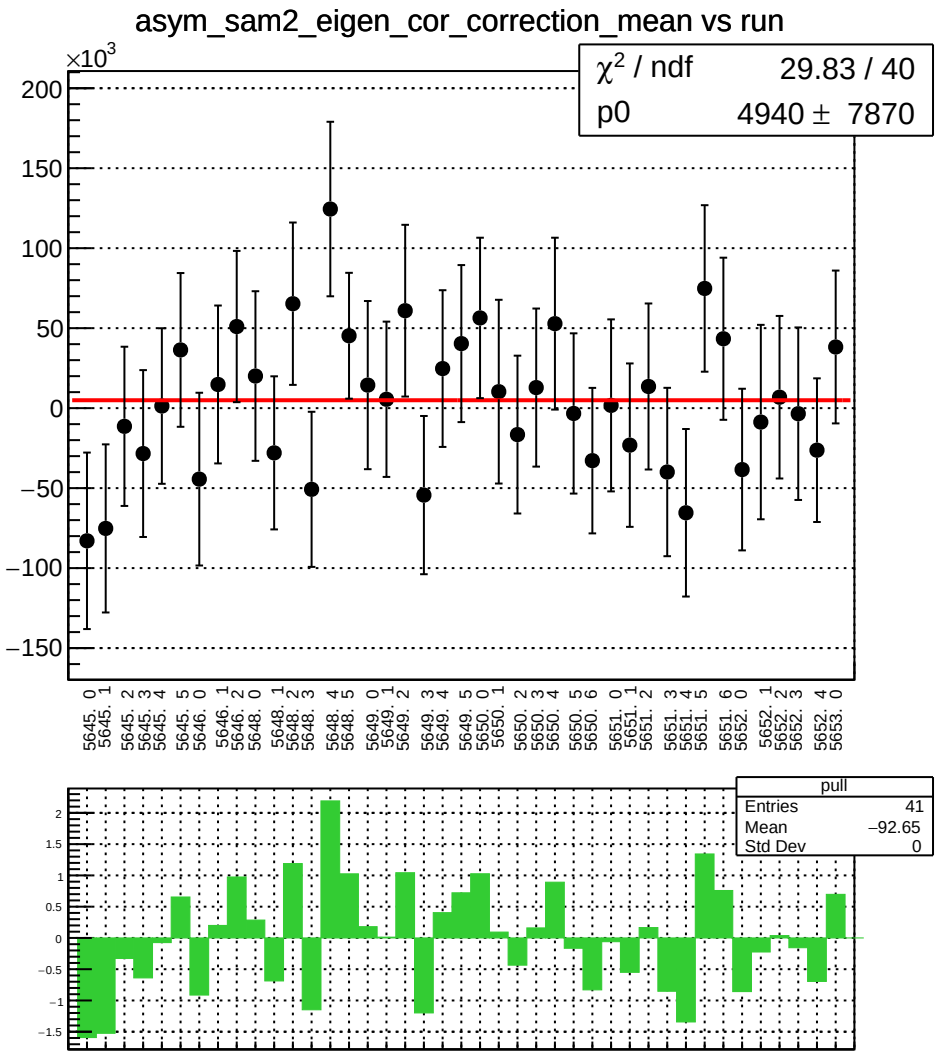
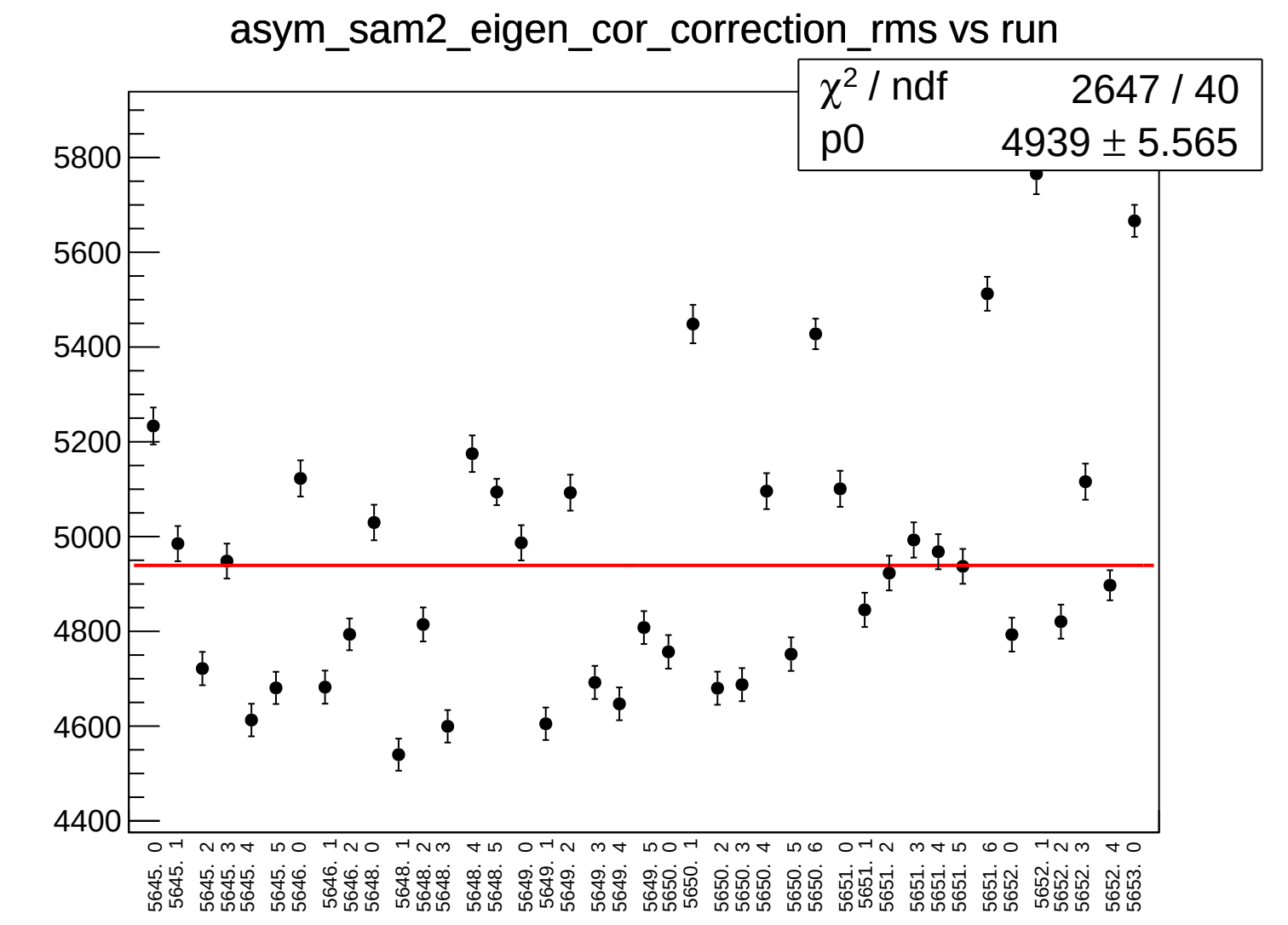
5652. 4
5653. 0


eigen_cor_asym_sam2_mean vs run
χ² / ndf 27.27 / 40
p0 421.1 ± 680.4
15000
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2192
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.001247
Std Dev 0.8156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.202e+04 / 40
p0 424.4 ± 0.4811
800
700
600
500
400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.83 / 40
p0 4940 ± 7870
200
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −92.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.005435
Std Dev 0.853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2647 / 40
p0 4939 ± 5.565
5800
5600
5400
5200
5000
4800
4600
4400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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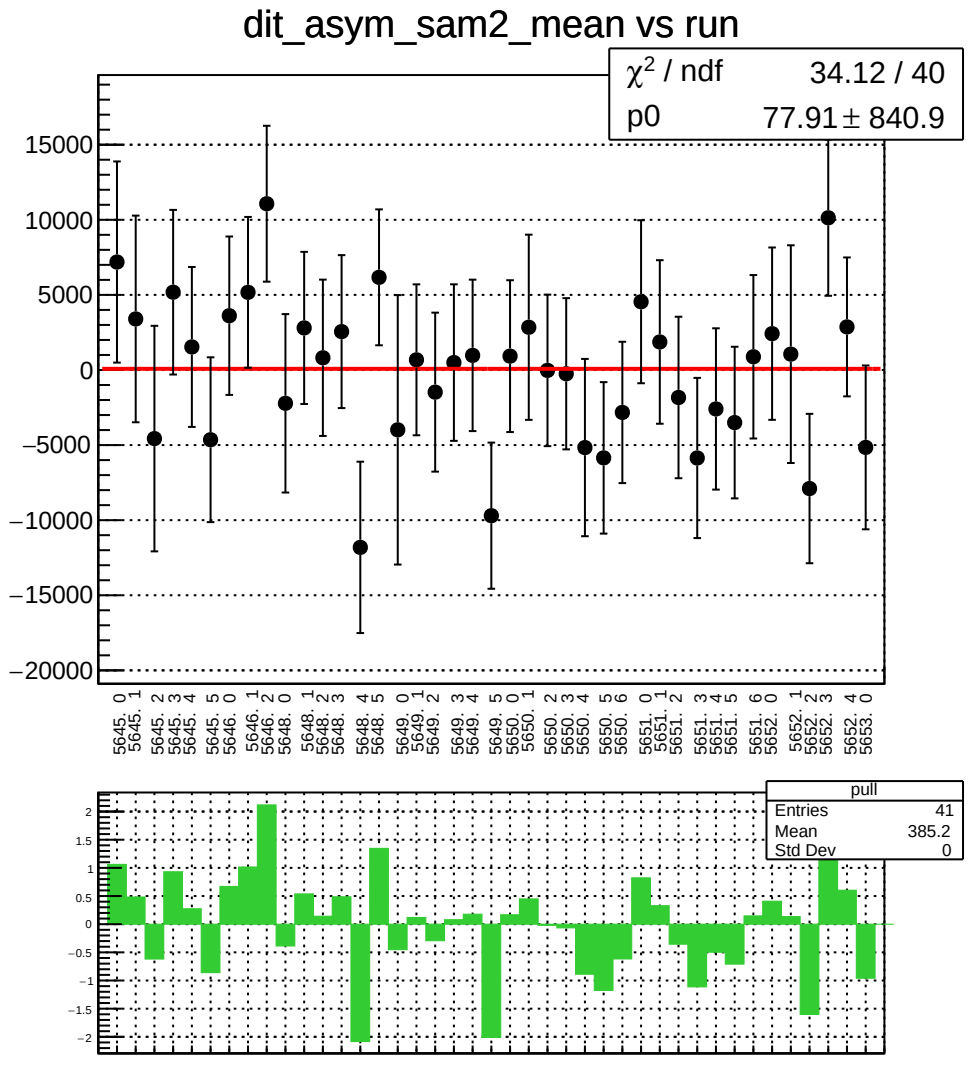
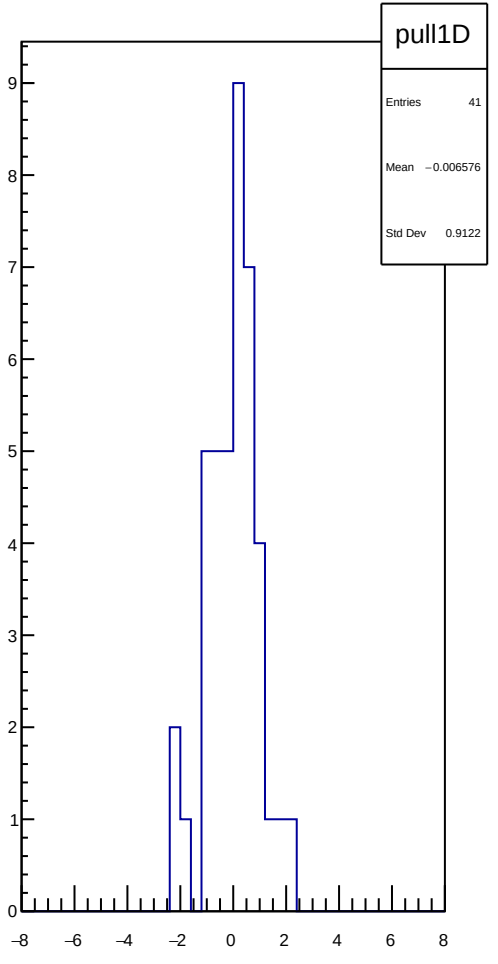
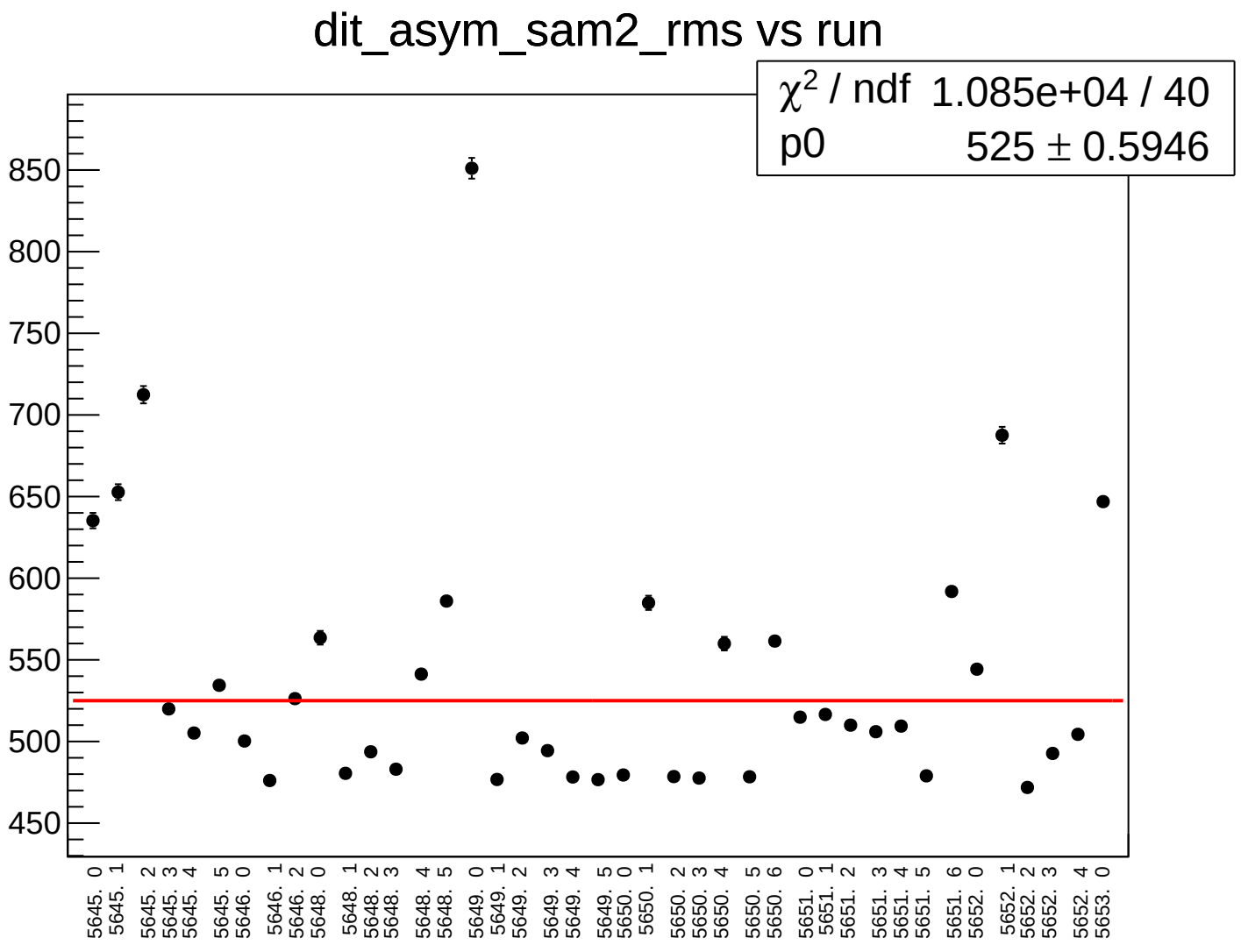
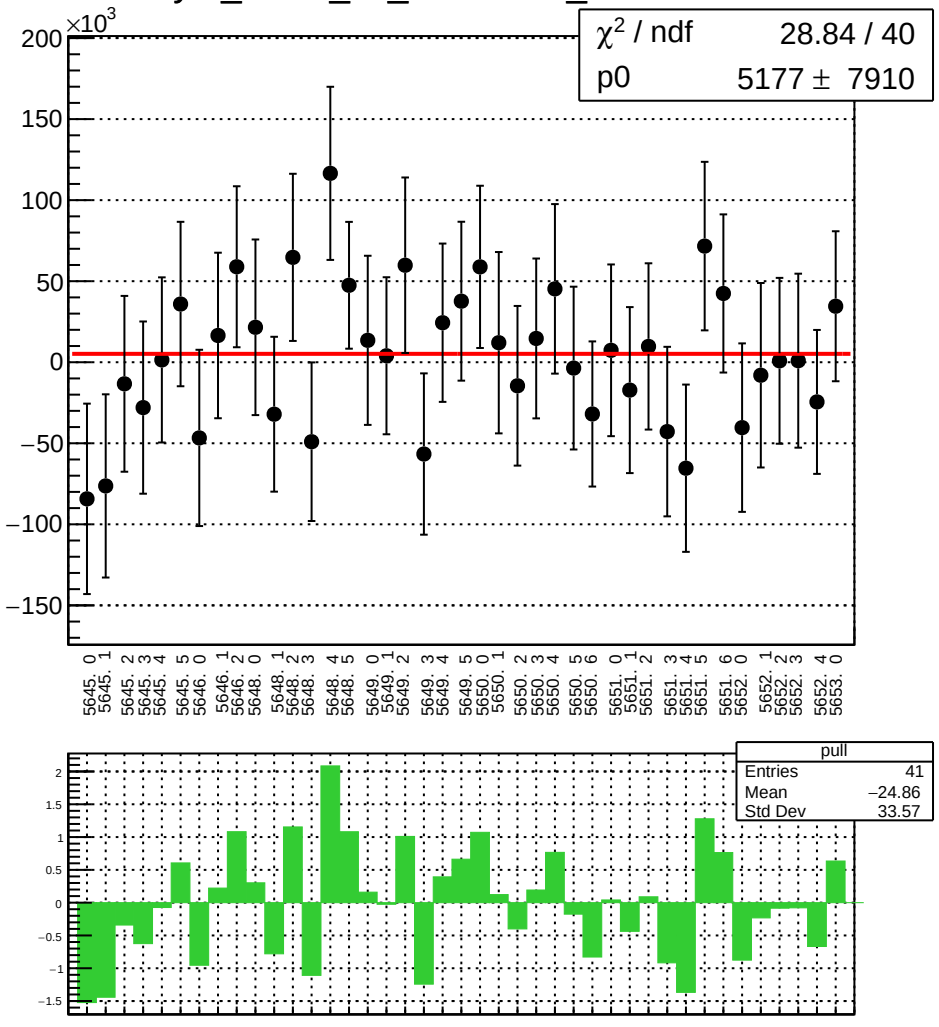
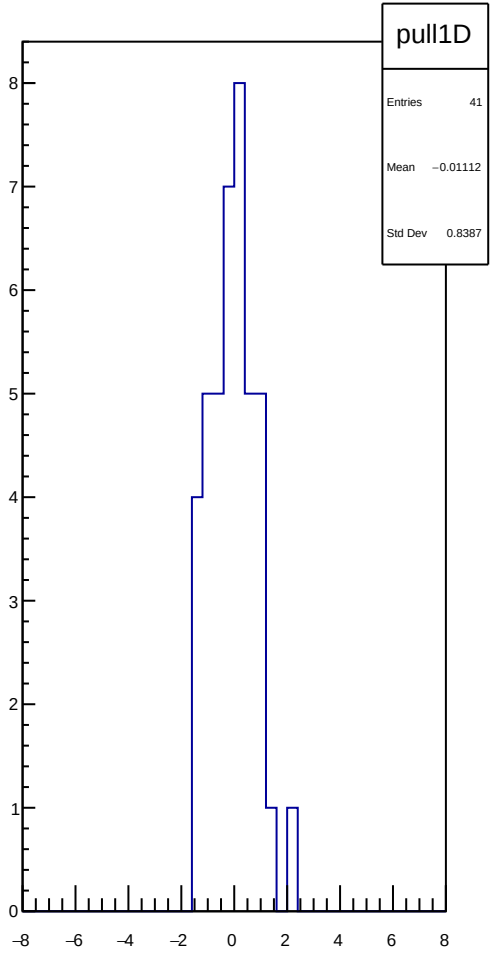
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

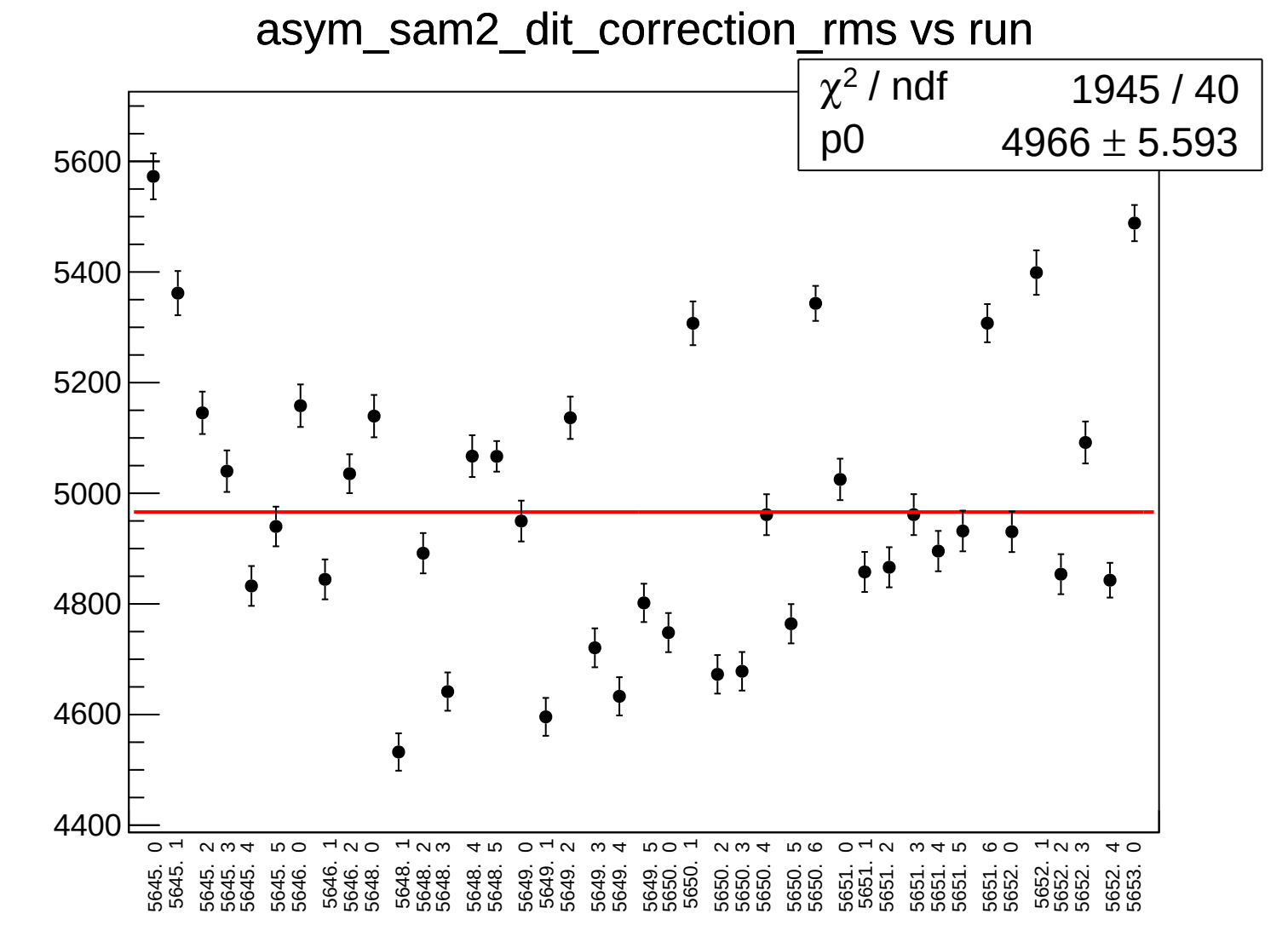

dit_asym_sam2_mean vs run
χ² / ndf 34.12 / 40
p0 77.91 ± 840.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 385.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

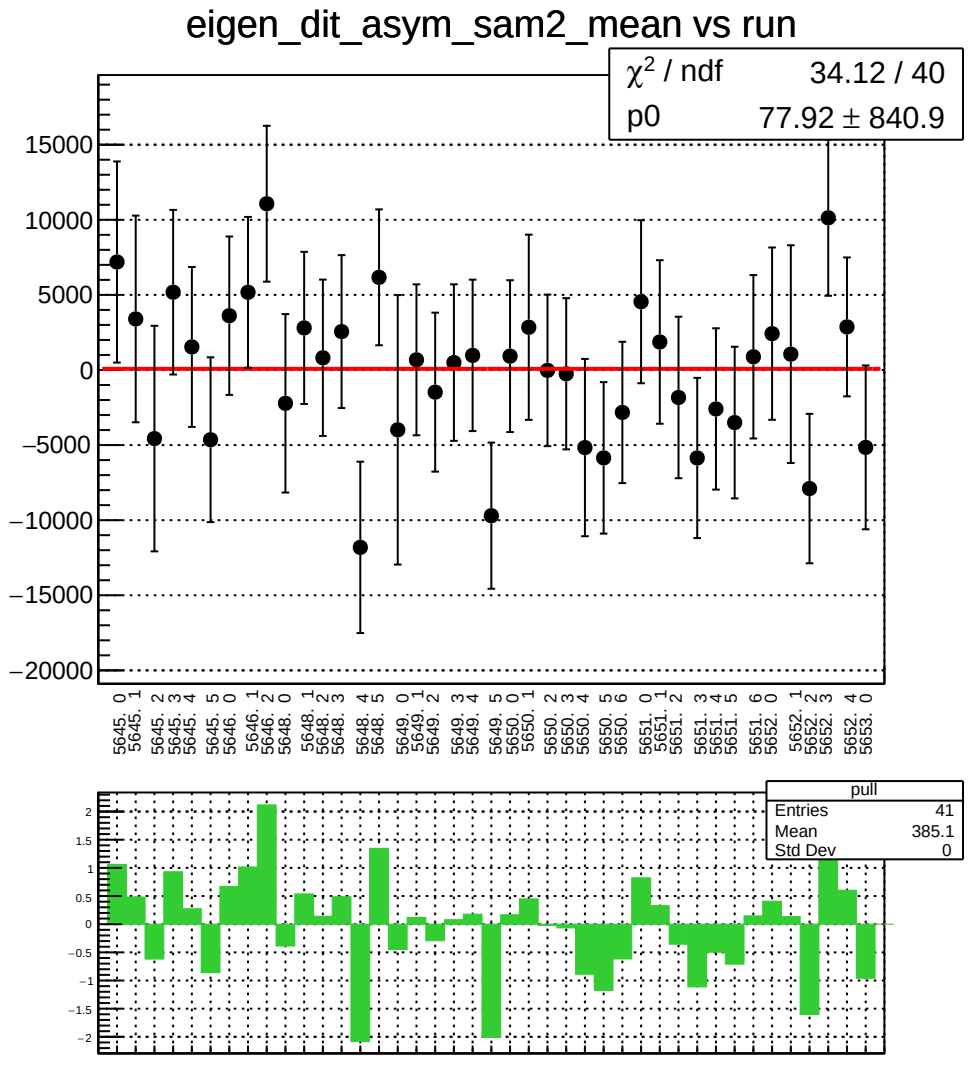

pull1D
Entries 41
Mean −0.006576
Std Dev 0.9122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

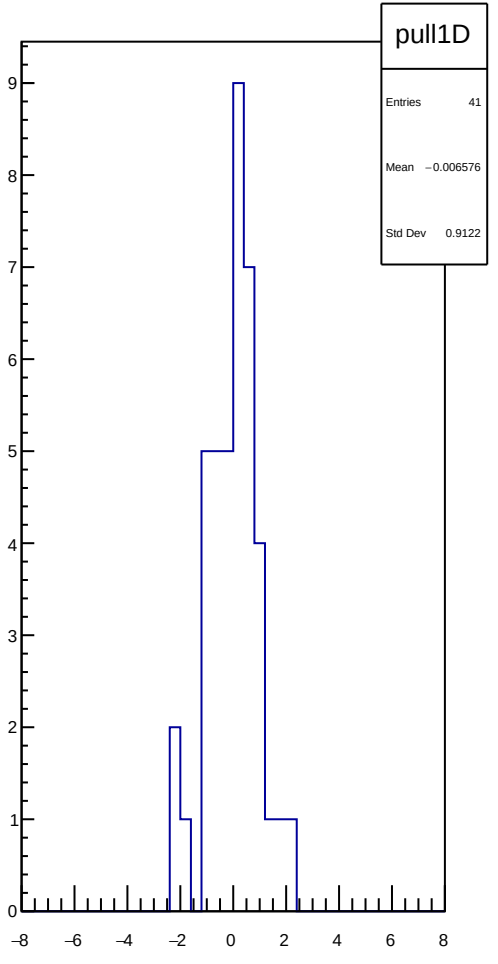

dit_asym_sam2_rms vs run
χ^2 / ndf 1.085e+04 / 40
p0 525 ± 0.5946
850
800
750
700
650
600
550
500
450
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

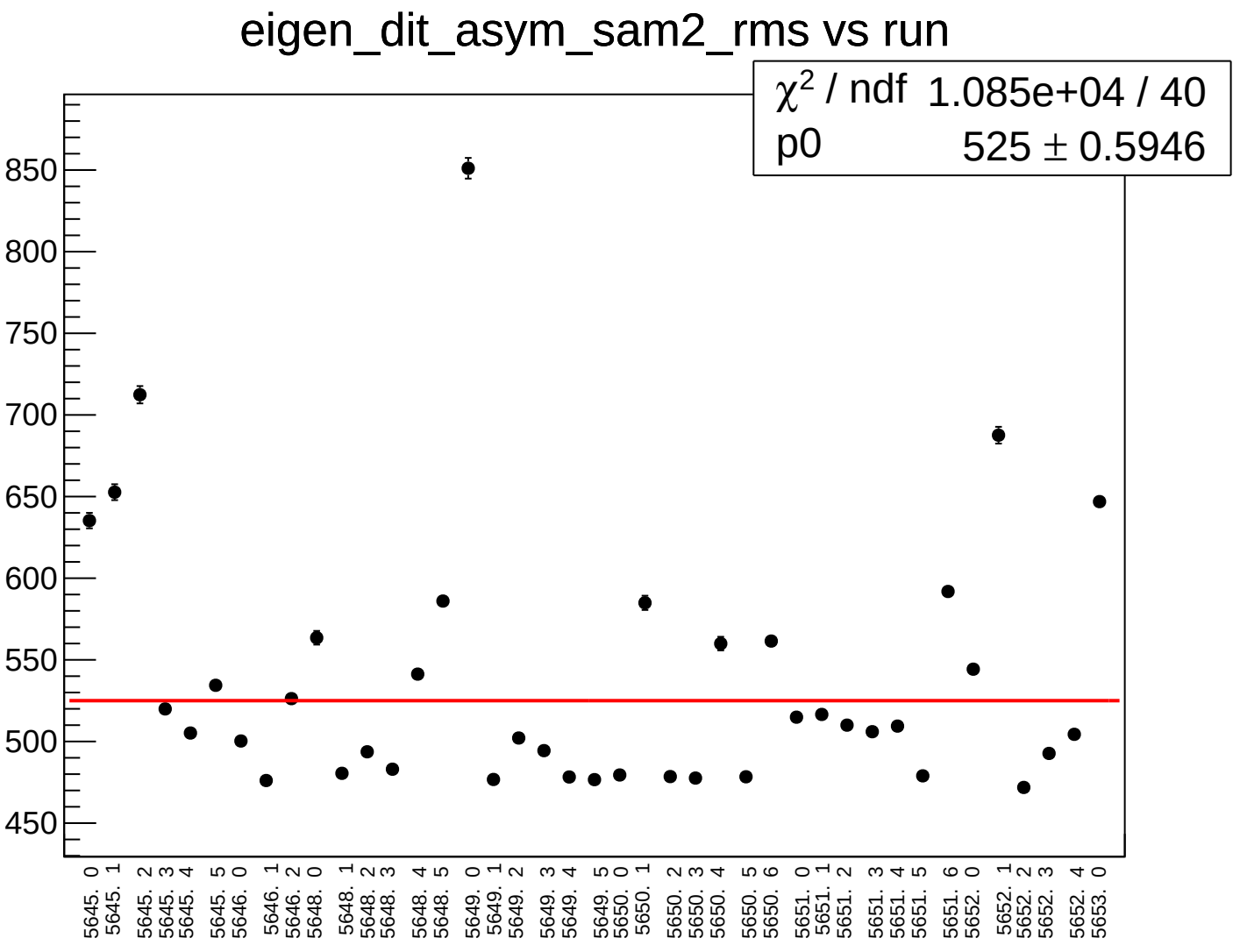

asym_sam2_dit_correction_mean vs run
×10^3
χ^2 / ndf 28.84 / 40
p0 5177 ± 7910
pull
Entries 41
Mean −24.86
Std Dev 33.57

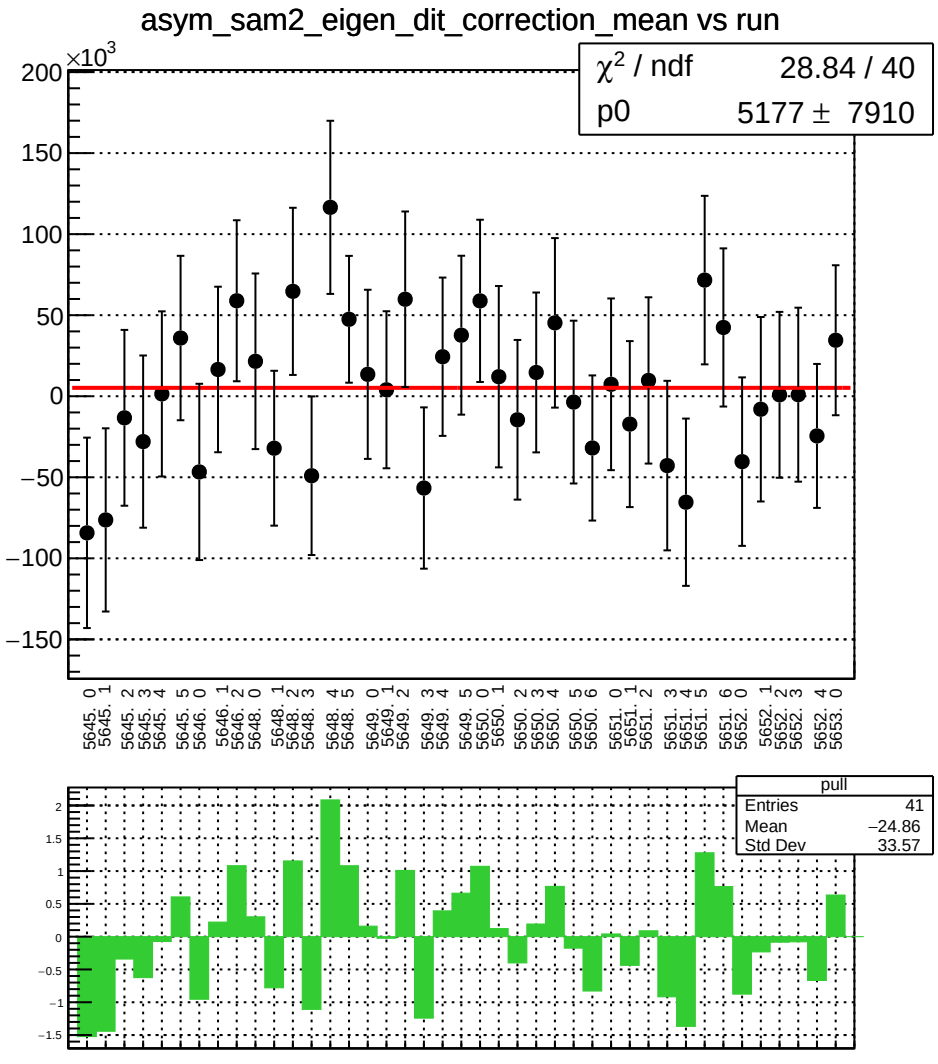

pull1D
Entries 41
Mean −0.01112
Std Dev 0.8387

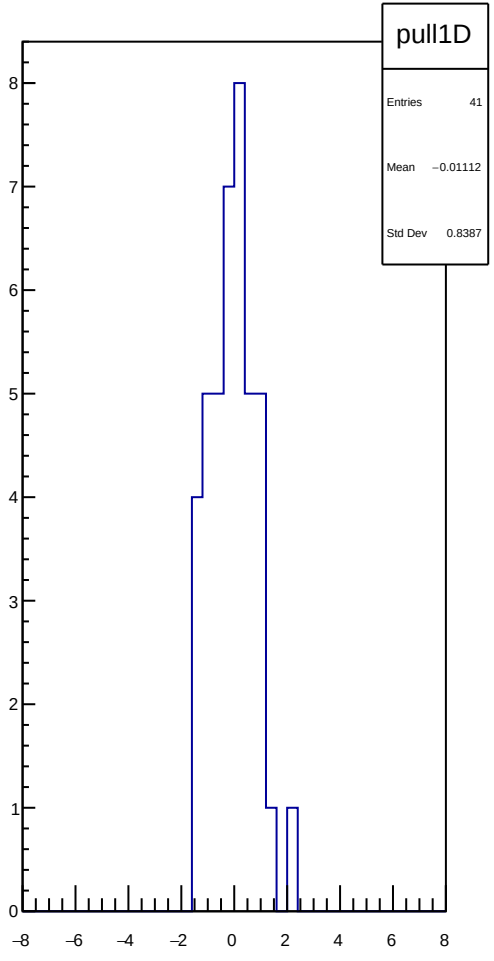

asym_sam2_dit_correction_rms vs run
χ² / ndf 1945 / 40
p0 4966 ± 5.593
5600
5400
5200
5000
4800
4600
4400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

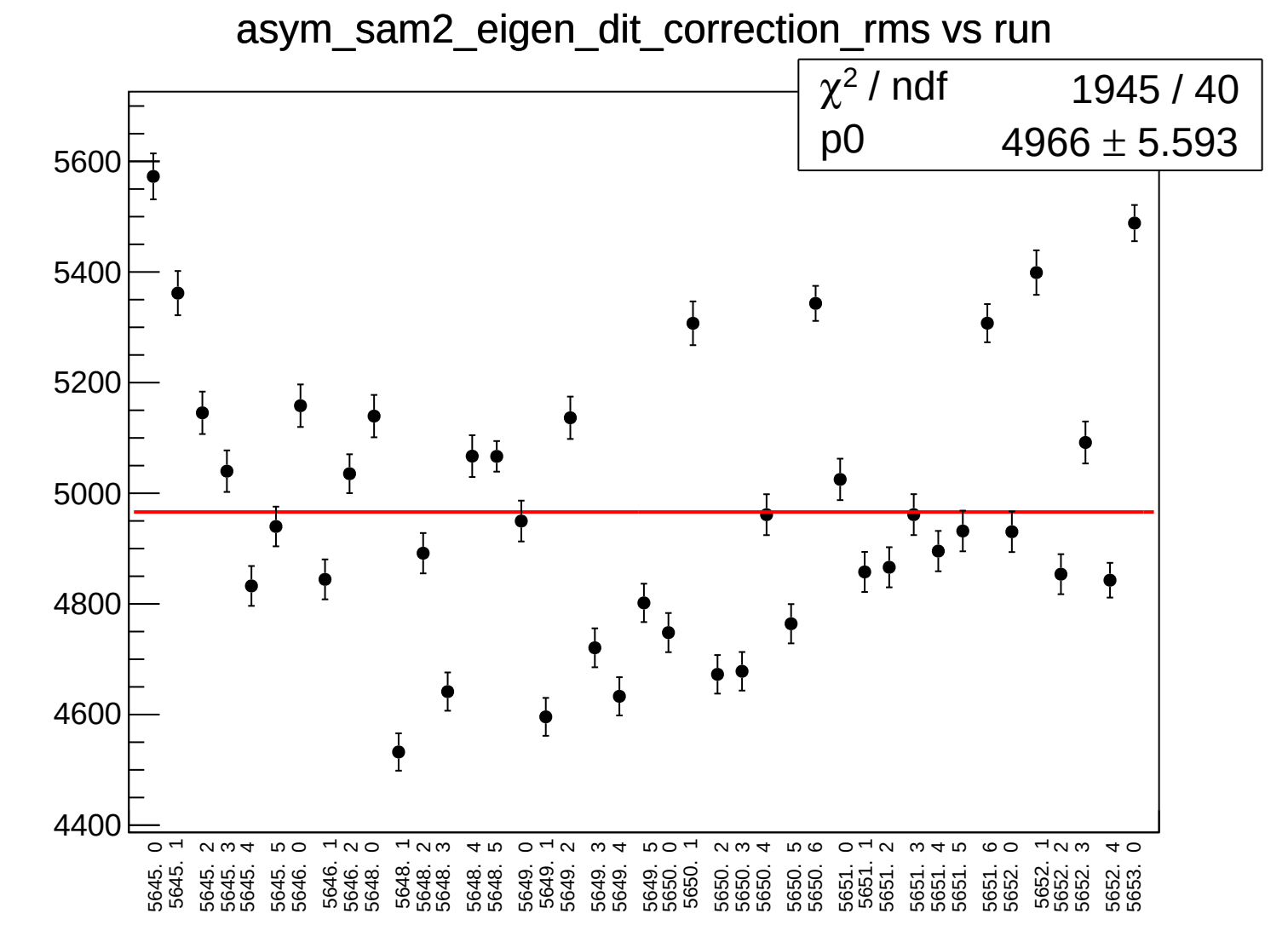

eigen_dit_asym_sam2_mean vs run
χ² / ndf 34.12 / 40
p0 77.92 ± 840.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 385.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

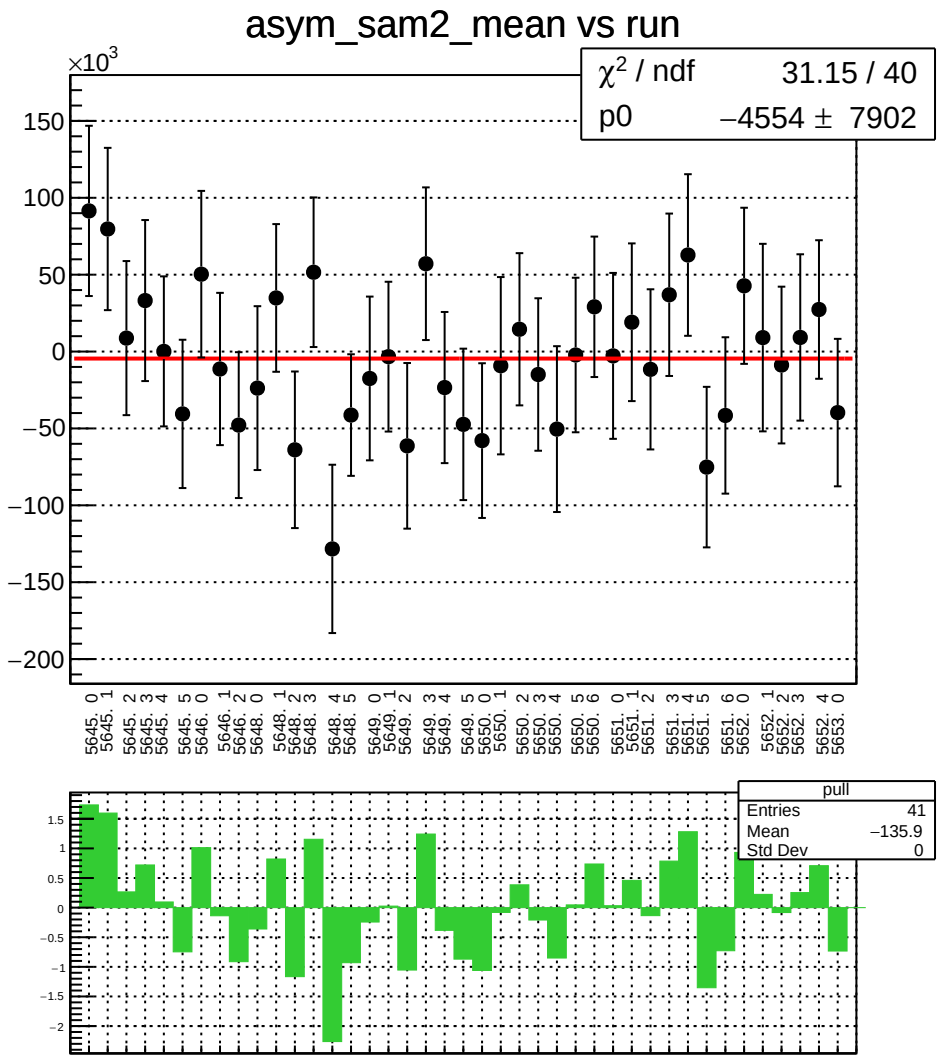

pull1D
Entries 41
Mean −0.006576
Std Dev 0.9122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

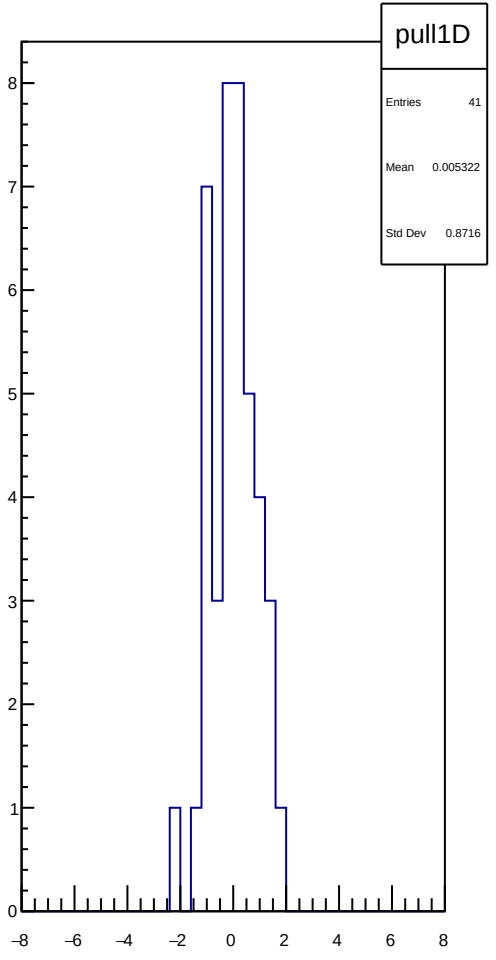

eigen_dit_asym_sam2_rms vs run
χ^2 / ndf 1.085e+04 / 40
p0 525 ± 0.5946
850
800
750
700
650
600
550
500
450
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

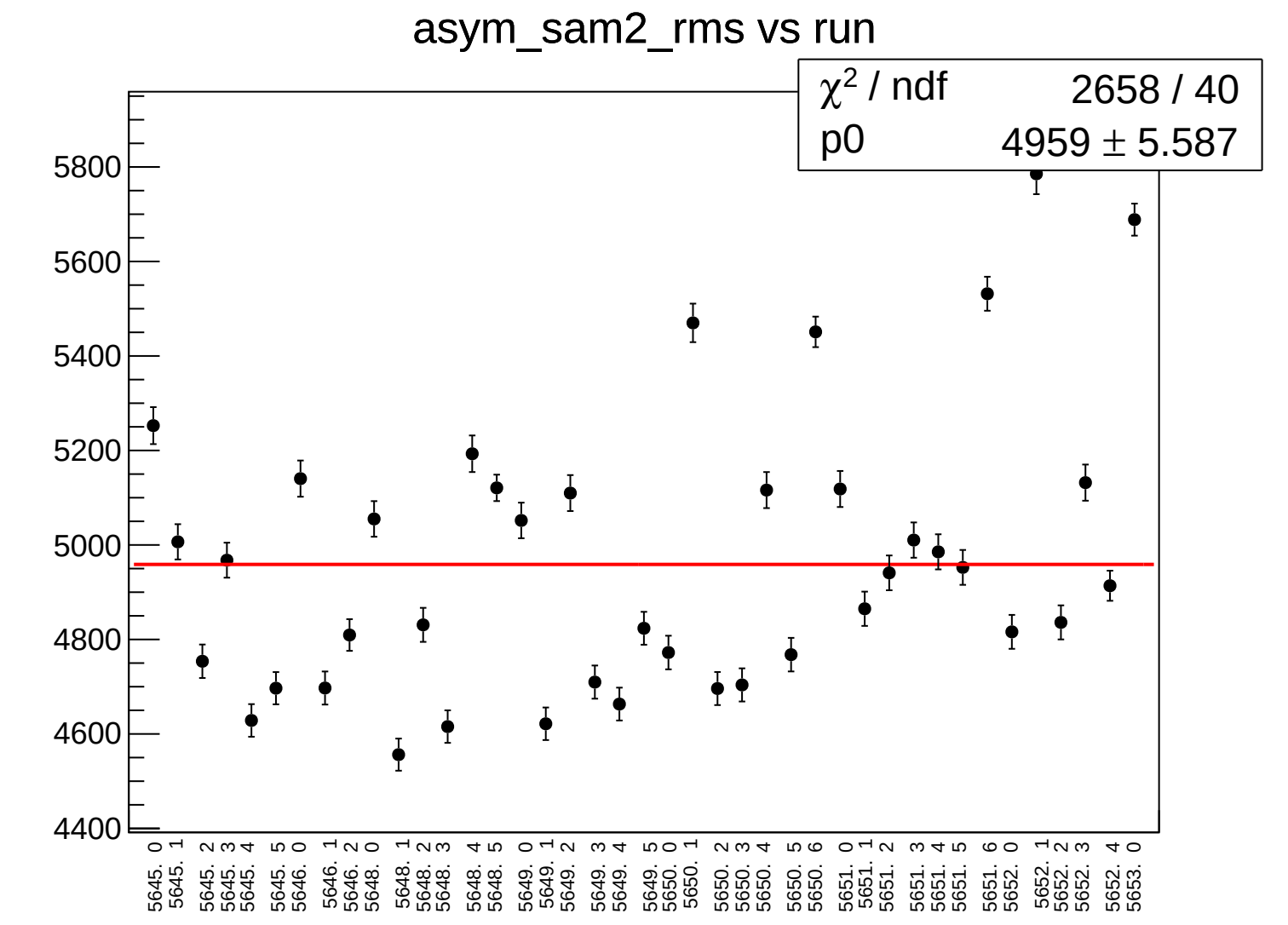

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 28.84 / 40
p0 5177 ± 7910
pull
Entries 41
Mean −24.86
Std Dev 33.57

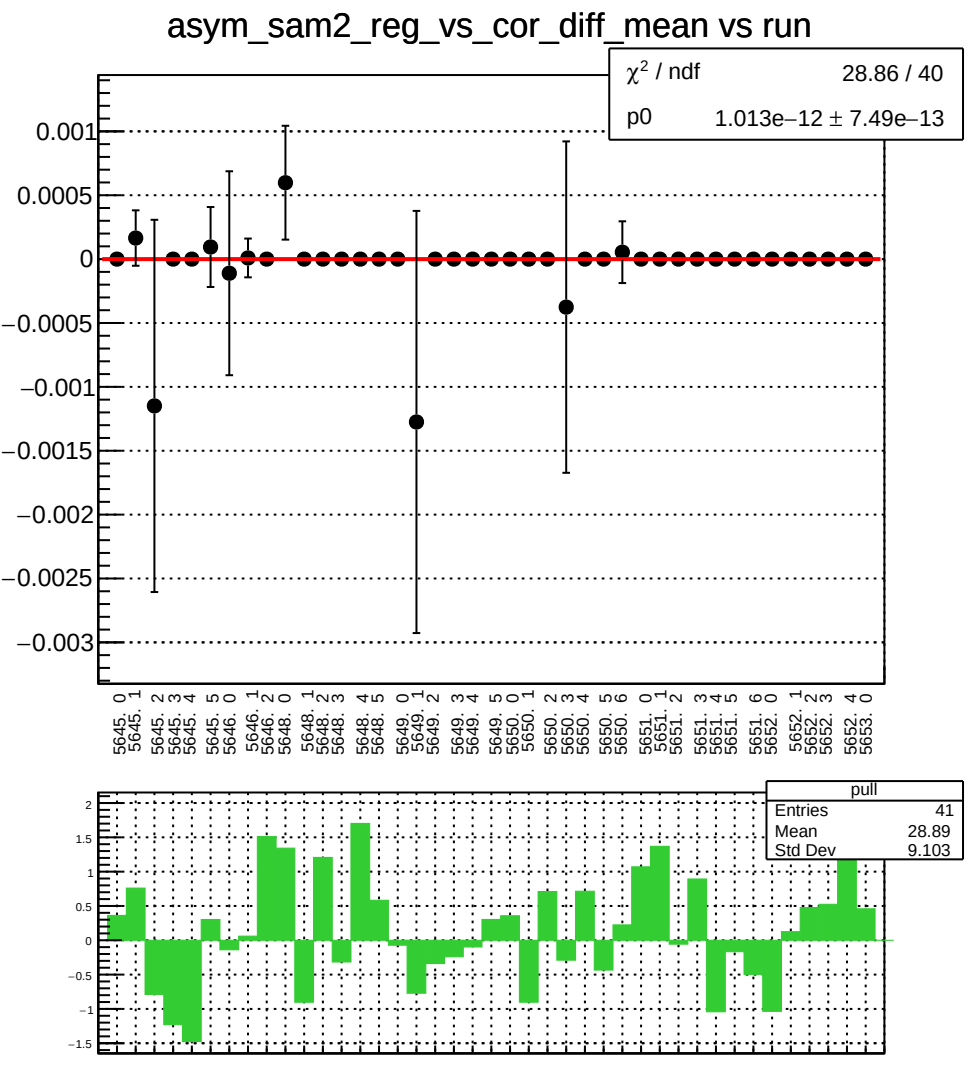

pull1D
Entries 41
Mean −0.01112
Std Dev 0.8387

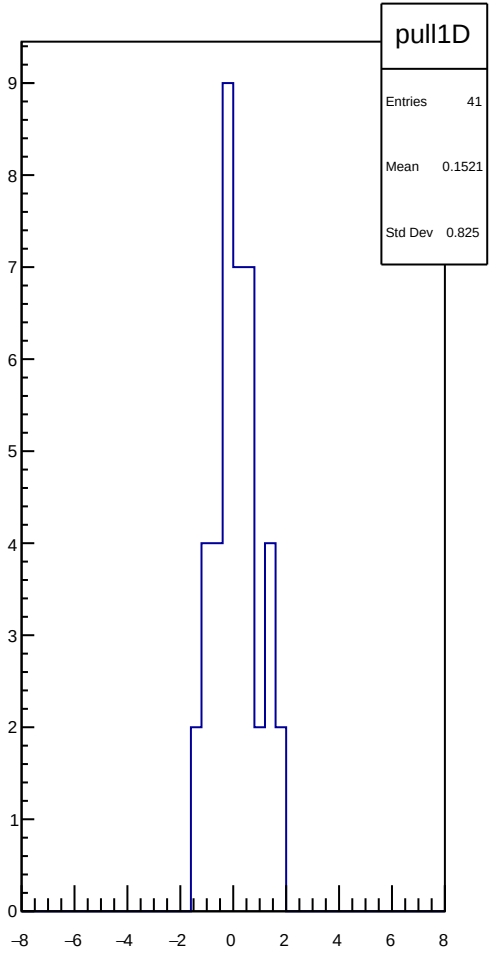

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1945 / 40
p0 4966 ± 5.593
5600
5400
5200
5000
4800
4600
4400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

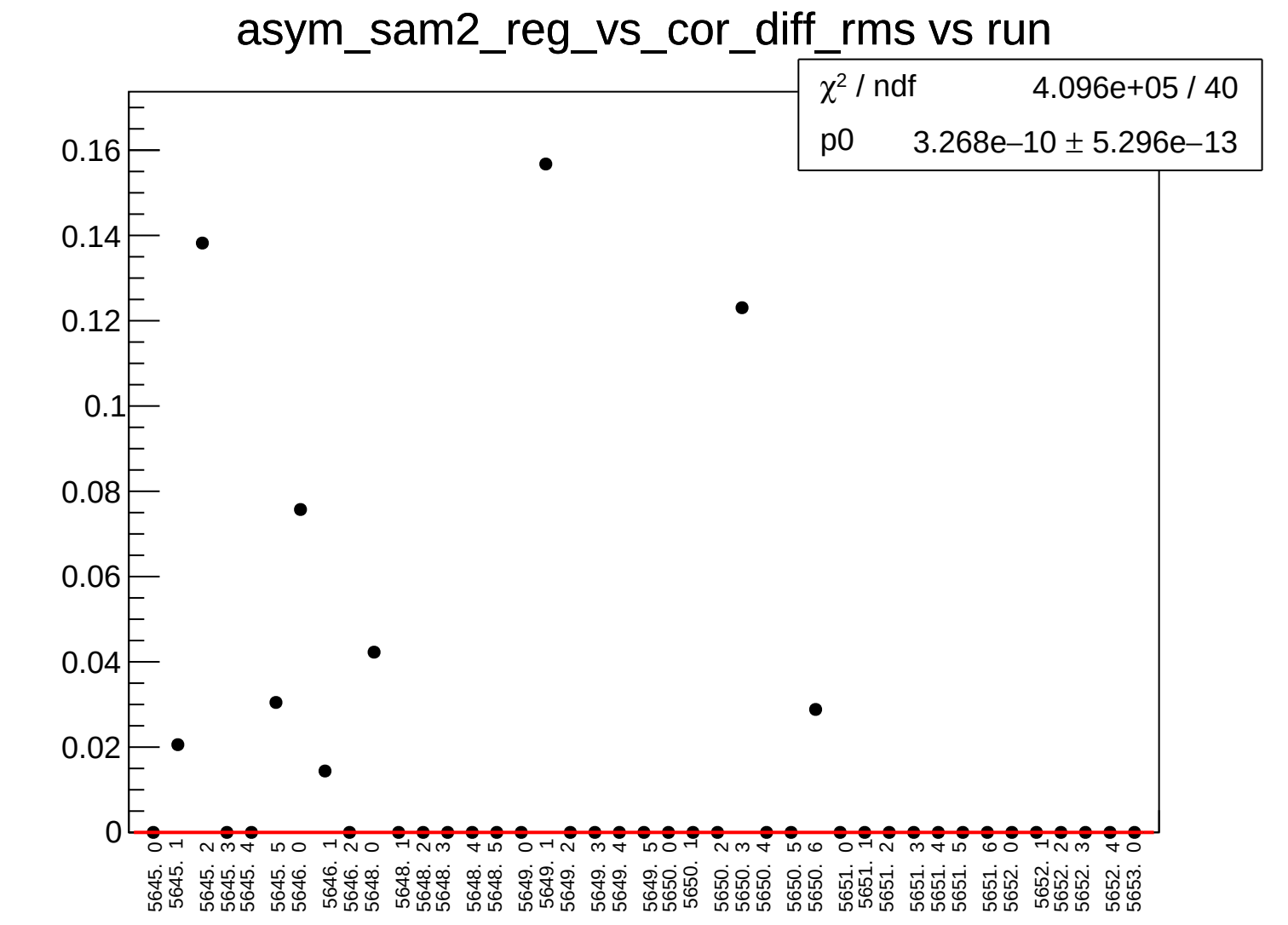

asym_sam2_mean vs run
×10^3
χ^2 / ndf 31.15 / 40
p0 −4554 ± 7902
150
100
50
0
−50
−100
−150
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −135.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

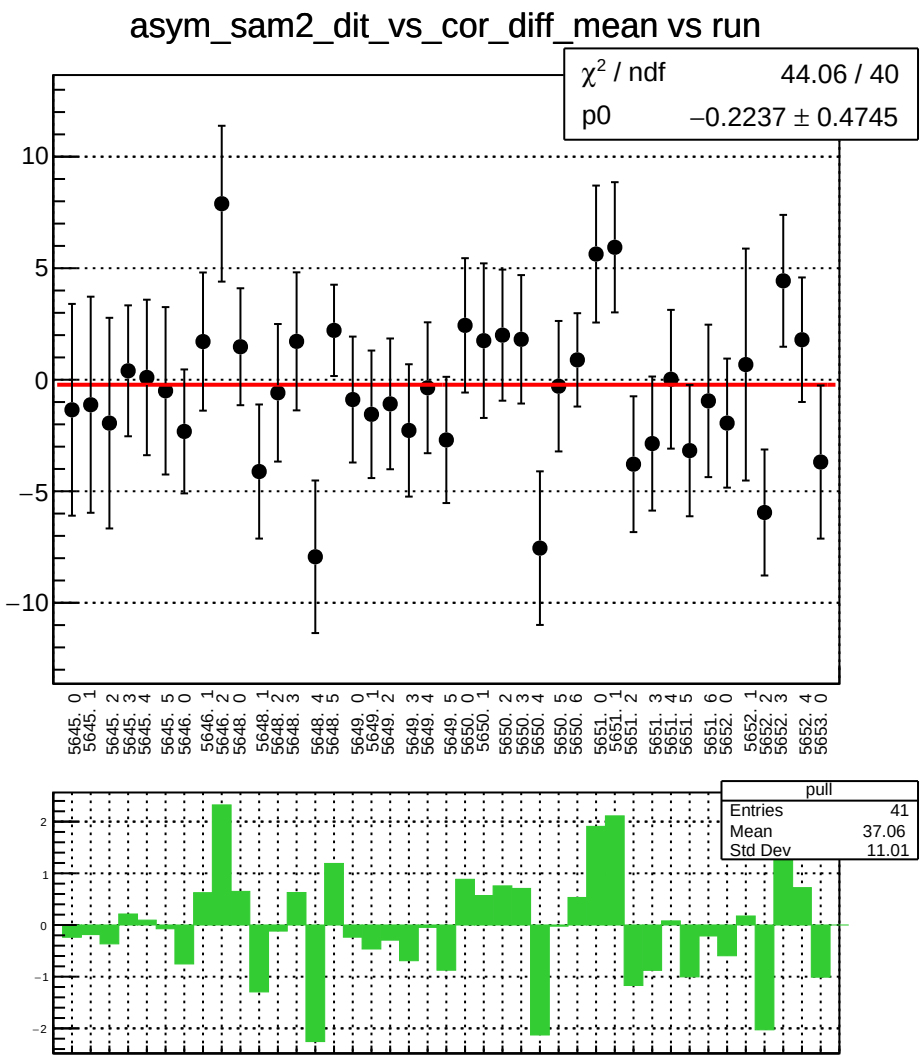

pull1D
Entries 41
Mean 0.005322
Std Dev 0.8716
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

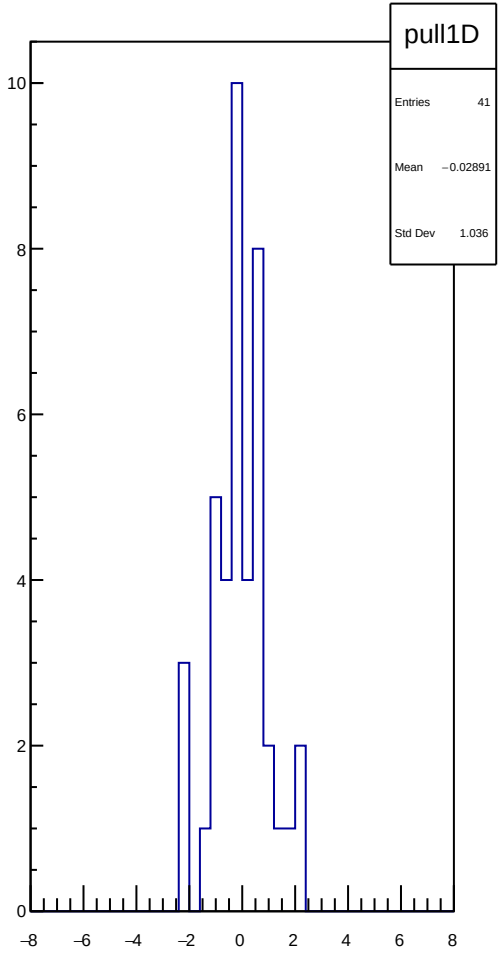

asym_sam2_rms vs run
χ² / ndf 2658 / 40
p0 4959 ± 5.587
5800
5600
5400
5200
5000
4800
4600
4400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

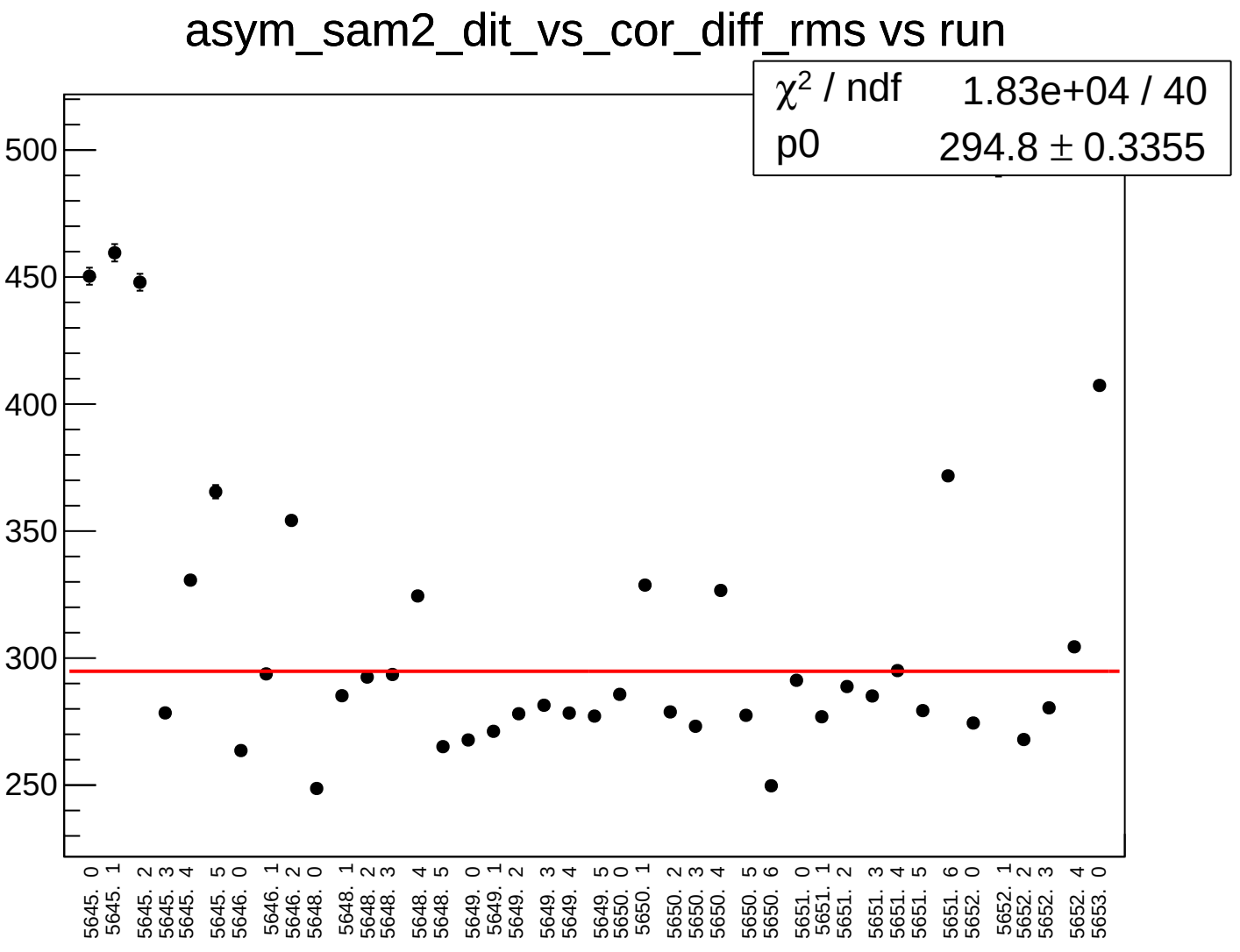

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 28.86 / 40
p0 1.013e−12 ± 7.49e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.89
Std Dev 9.103
2
1.5
1
0.5
0
−0.5
−1
−1.5

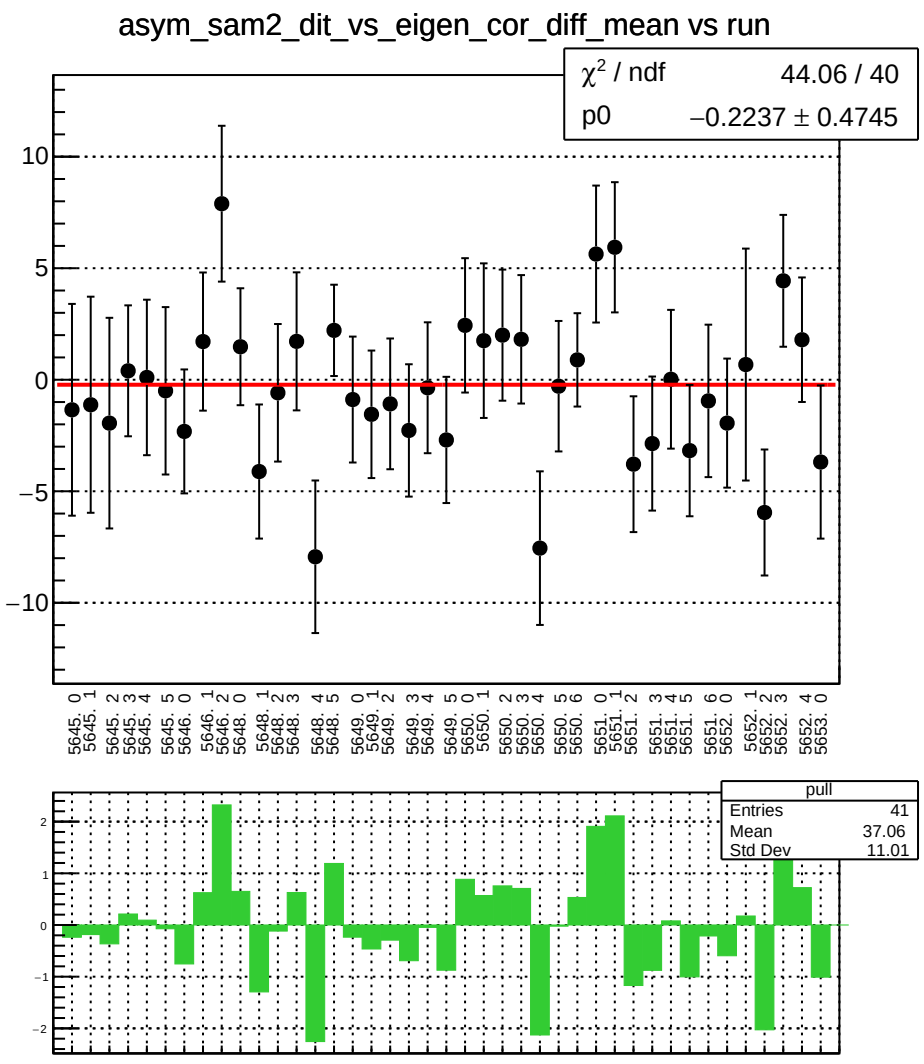

pull1D
Entries 41
Mean 0.1521
Std Dev 0.825
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

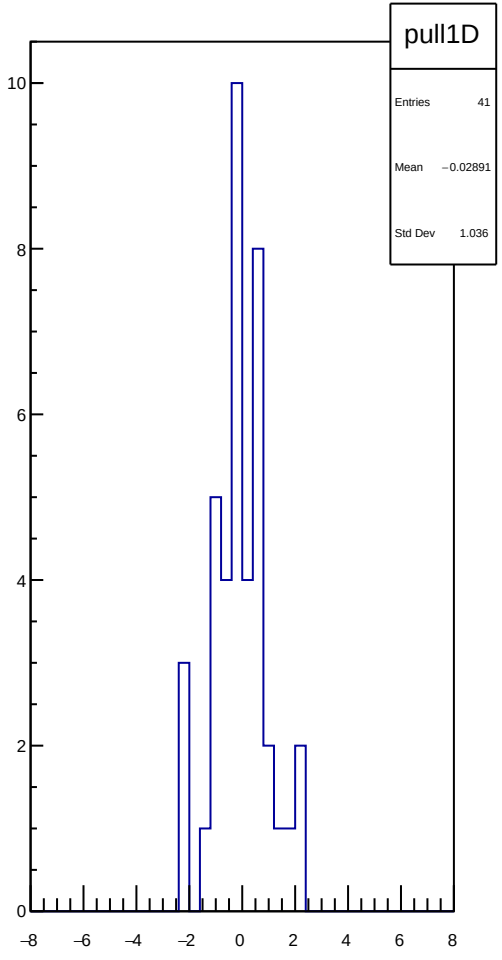

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.096e+05 / 40
p0 3.268e−10 ± 5.296e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

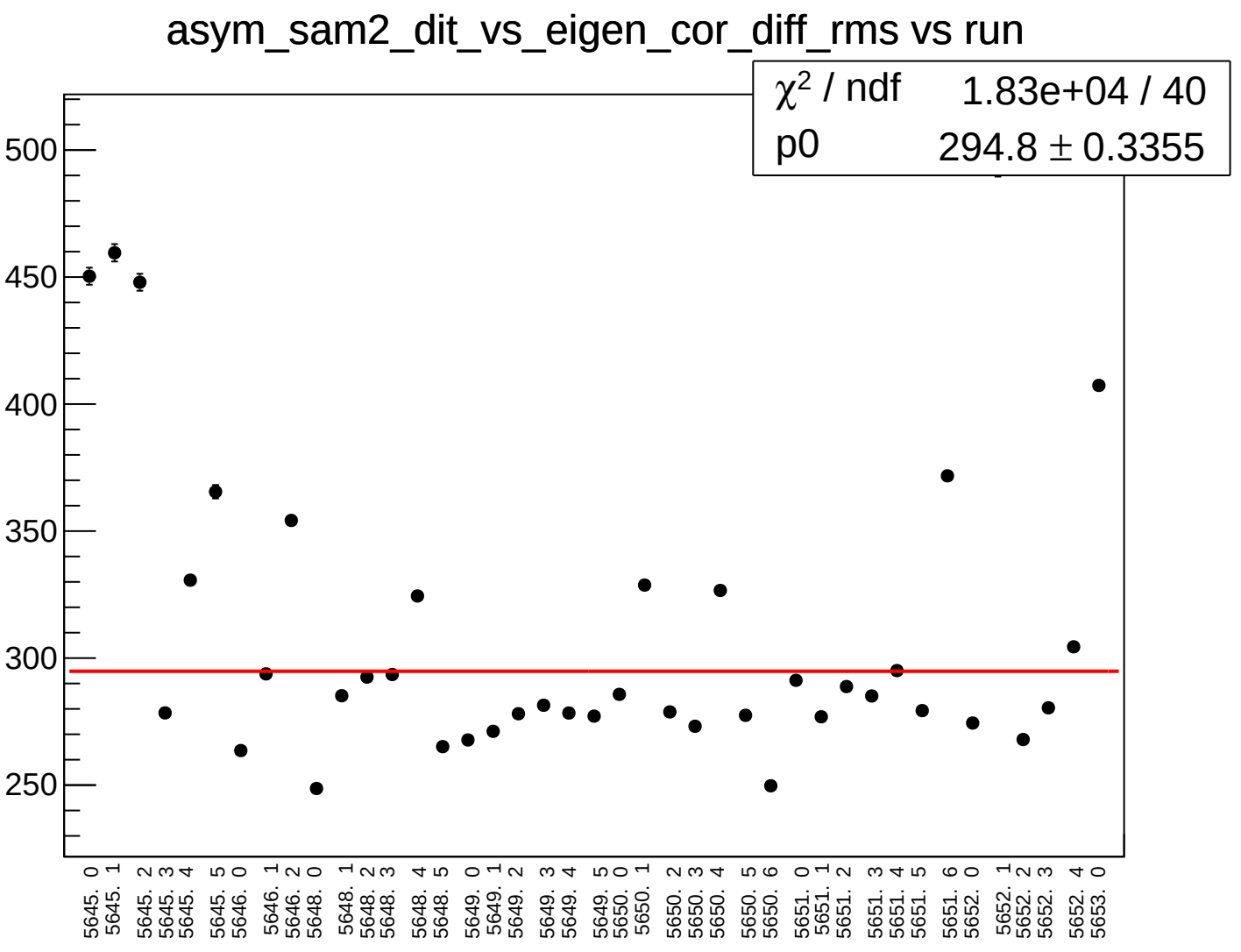

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.2237 ± 0.4745
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 37.06
Std Dev 11.01
2
1
0
−1
−2

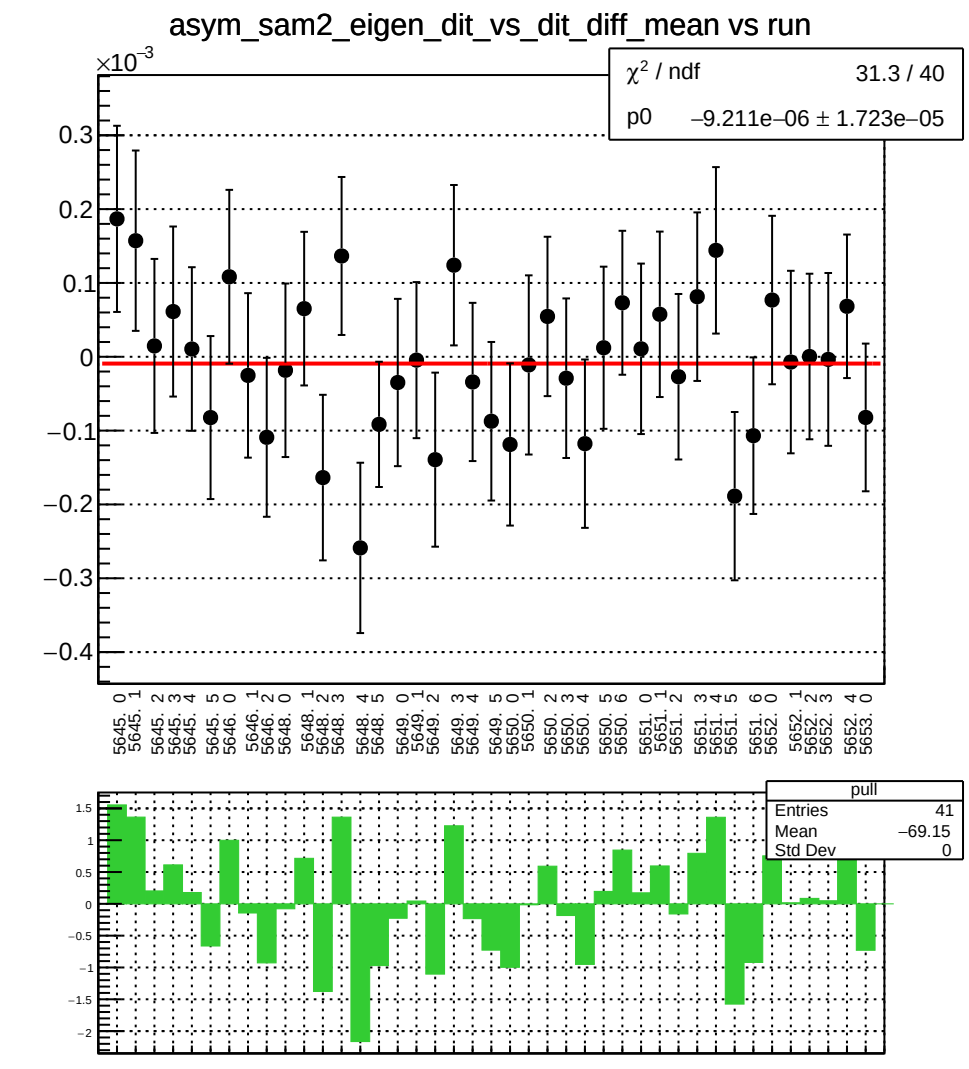

pull1D
Entries 41
Mean −0.02891
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

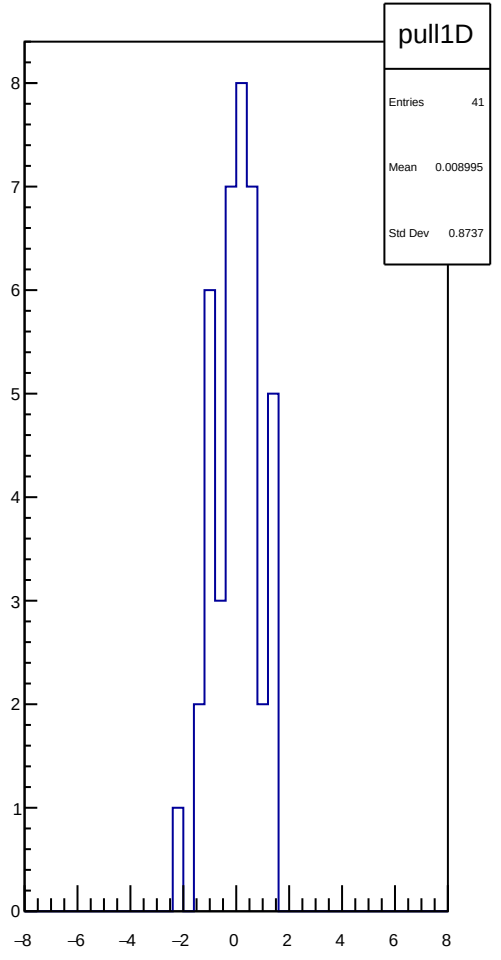

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.83e+04 / 40
p0 294.8 ± 0.3355
500
450
400
350
300
250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

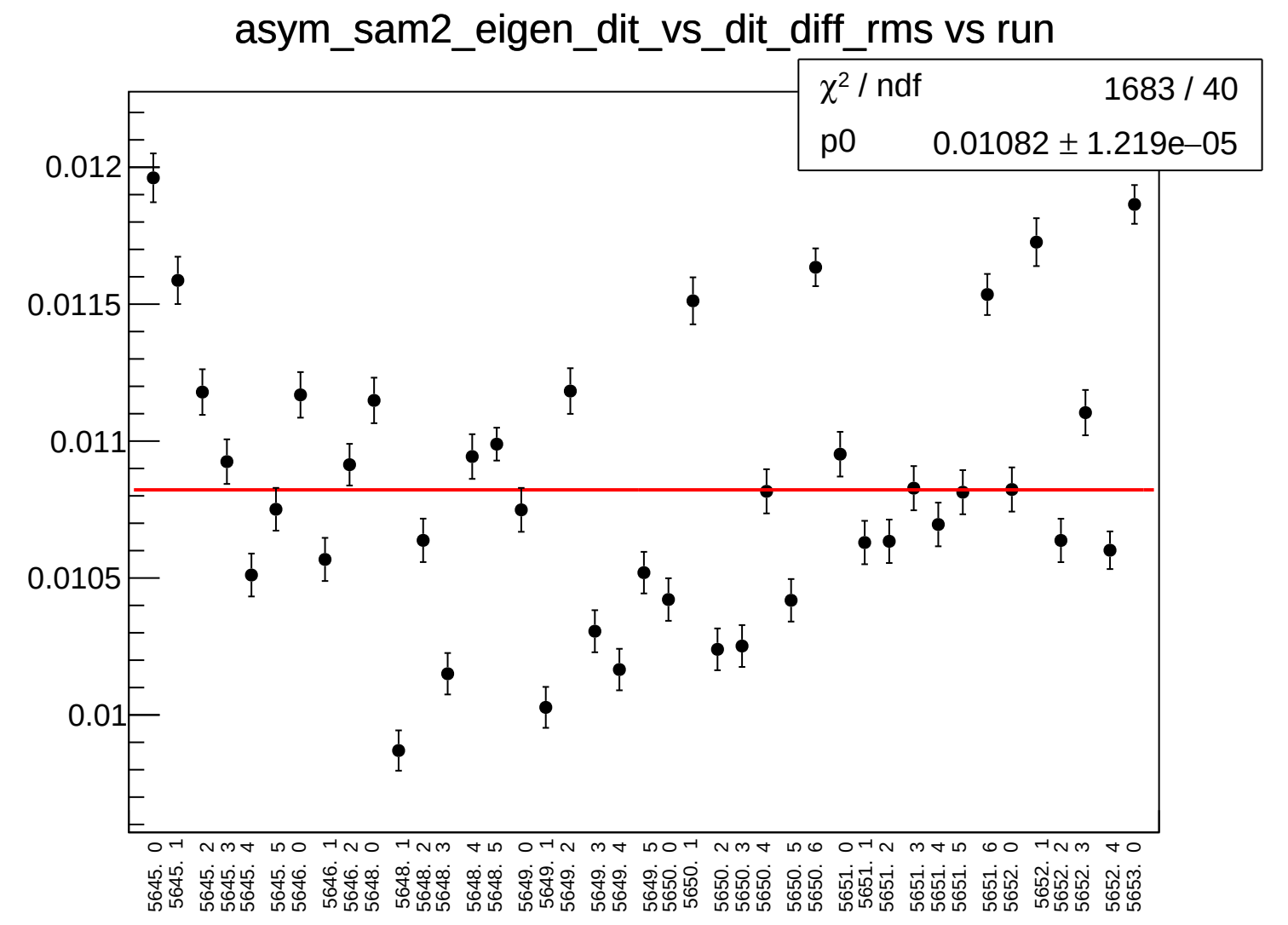

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.2237 ± 0.4745
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 37.06
Std Dev 11.01
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.02891
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.83e+04 / 40
p0 294.8 ± 0.3355
500
450
400
350
300
250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.3 / 40
p0 −9.211e−06 ± 1.723e−05
pull
Entries 41
Mean −69.15
Std Dev 0


pull1D
Entries 41
Mean 0.008995
Std Dev 0.8737


asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1683 / 40
p0 0.01082 ± 1.219e–05
0.012
0.0115
0.011
0.0105
0.01
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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5652. 2
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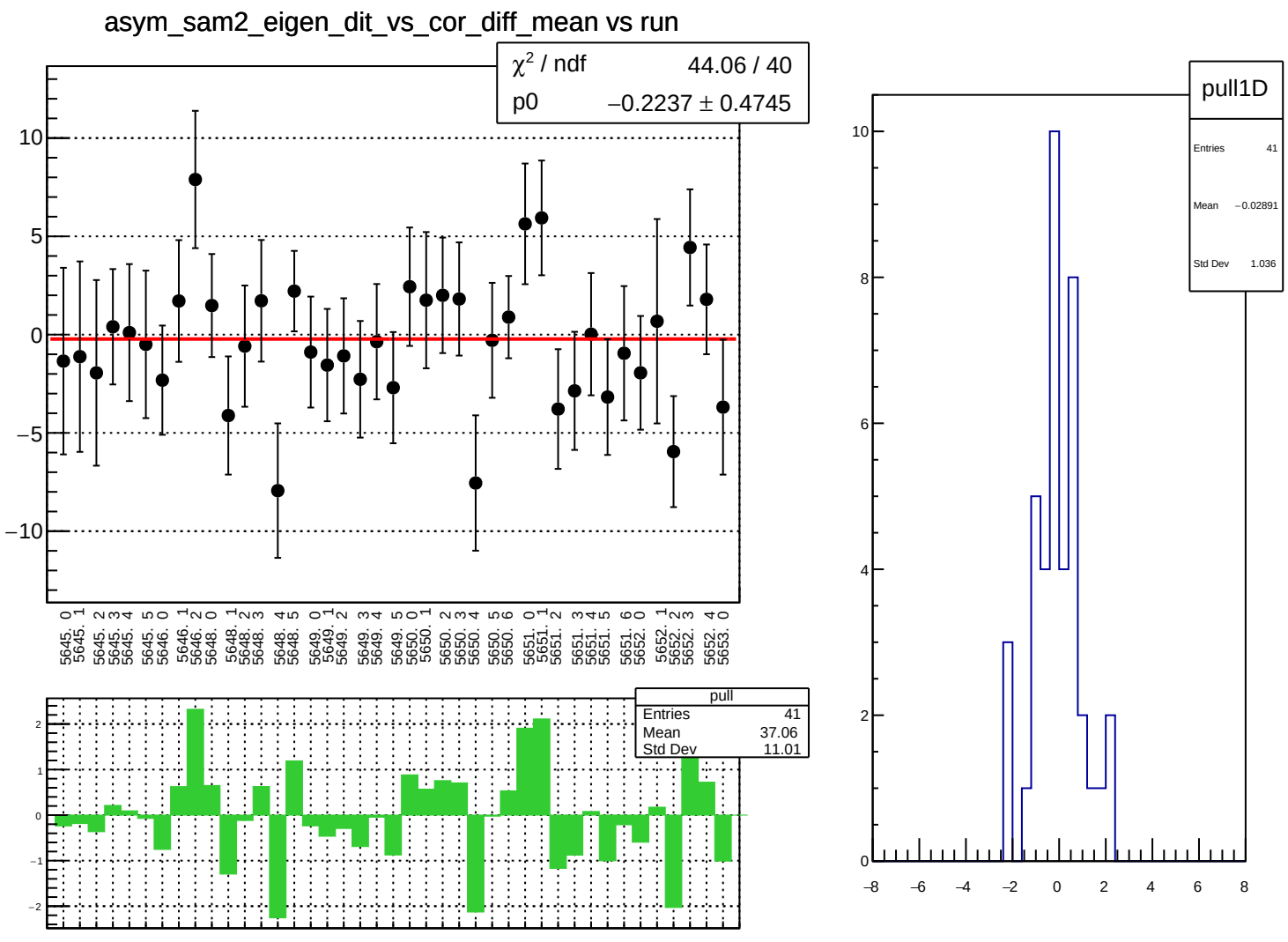
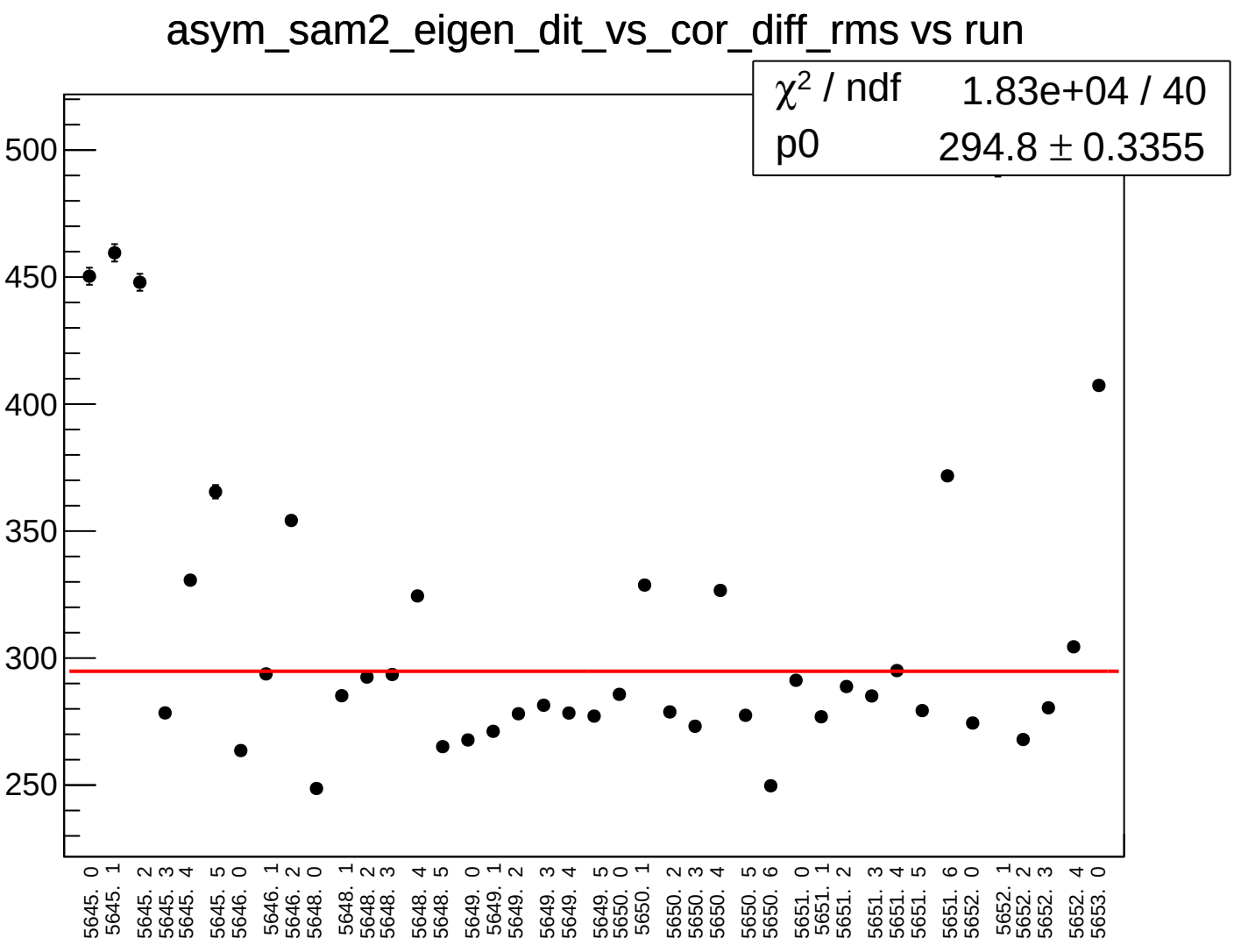
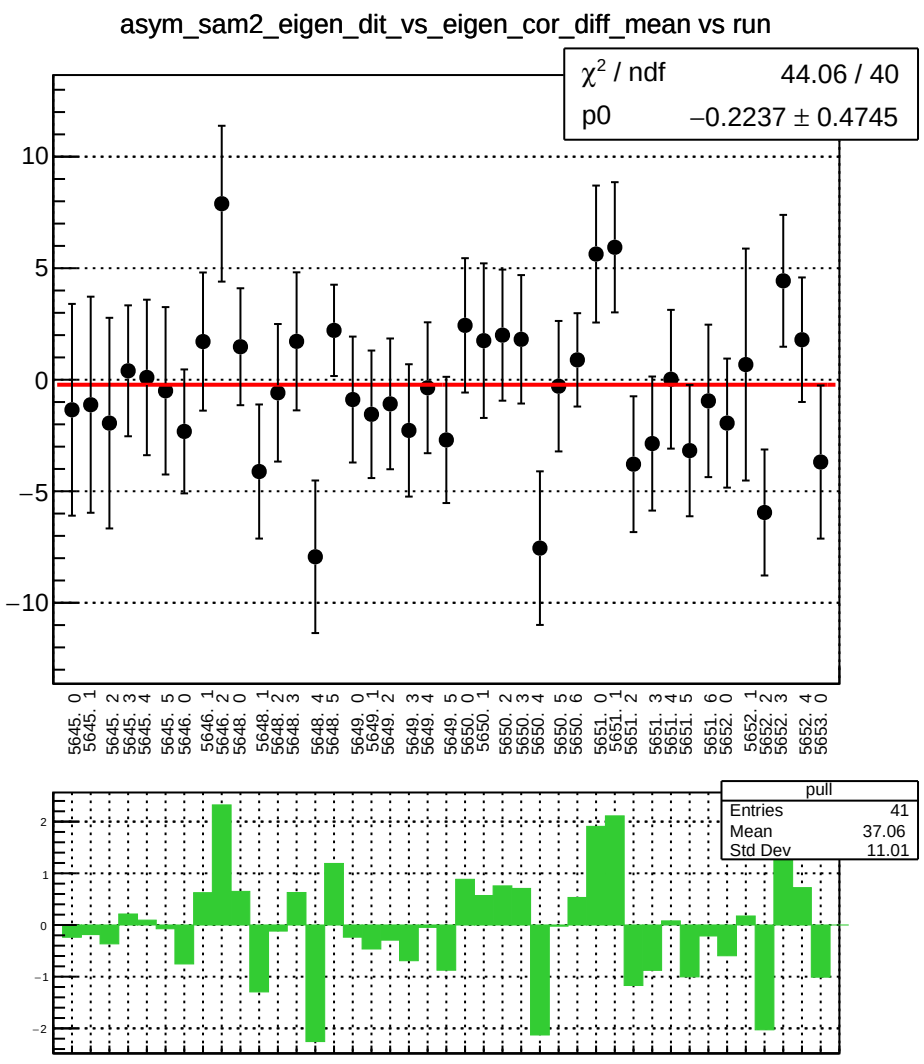
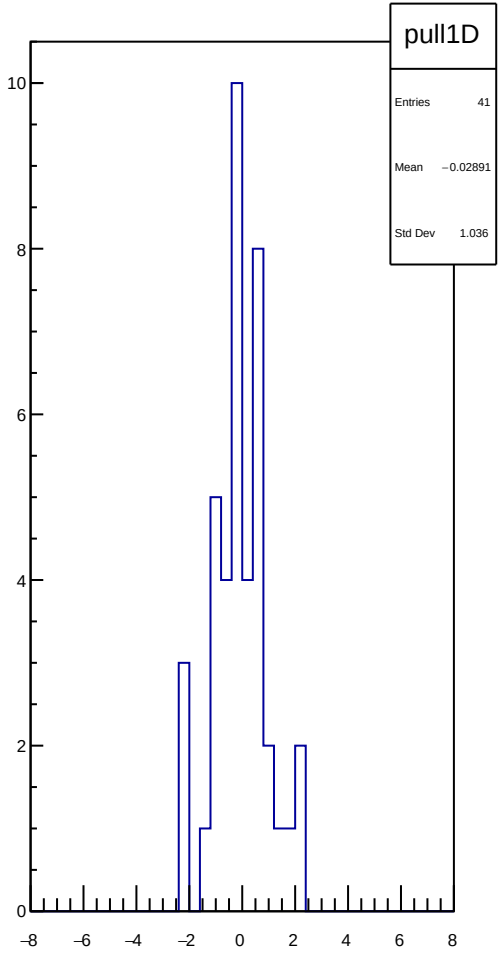
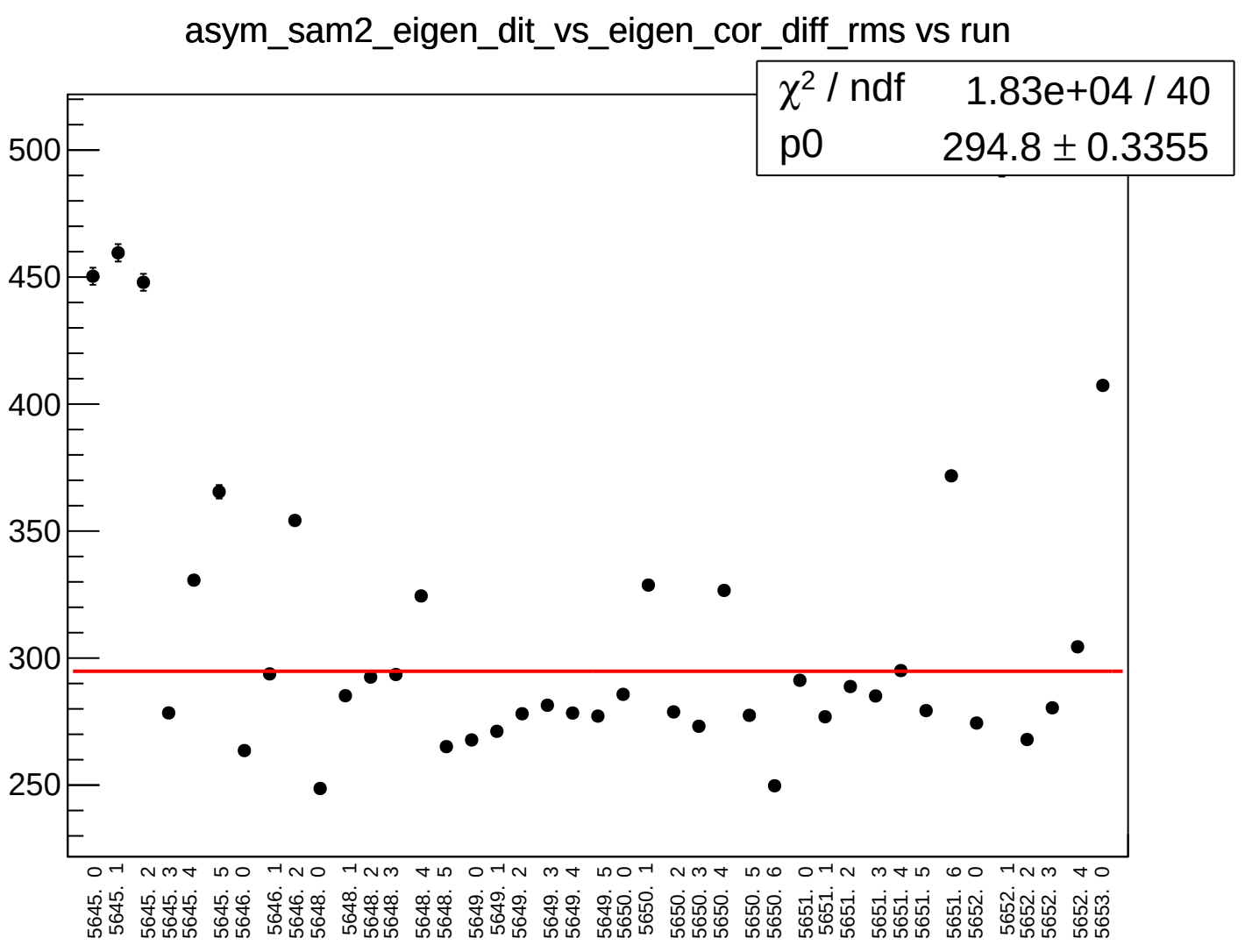
5652. 4
5653. 0

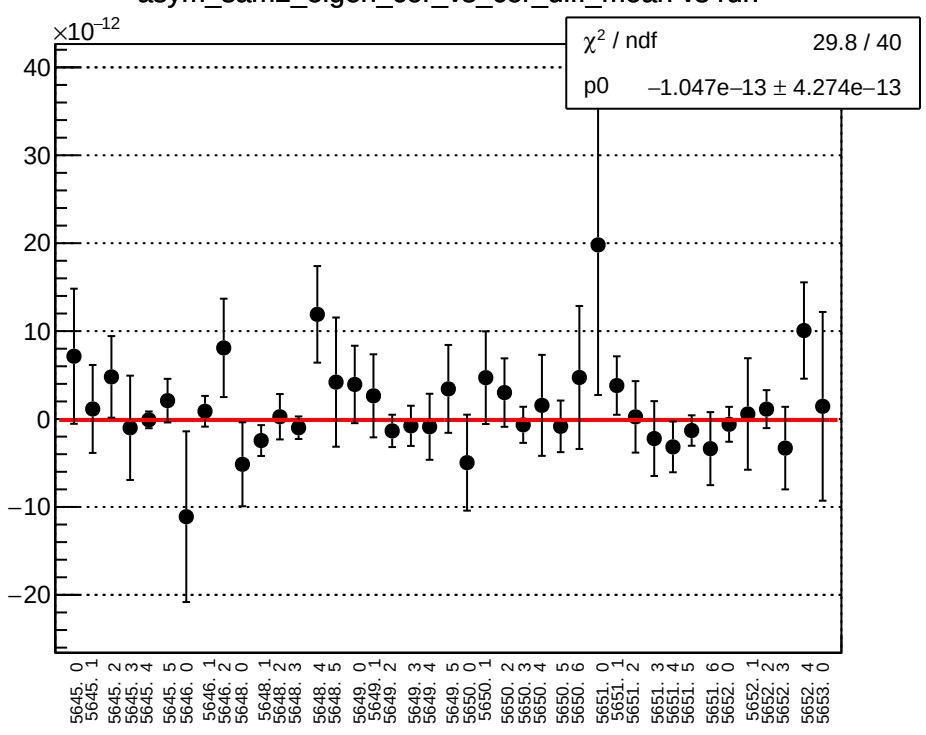

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.2237 ± 0.4745
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 37.06
Std Dev 11.01
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02891
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

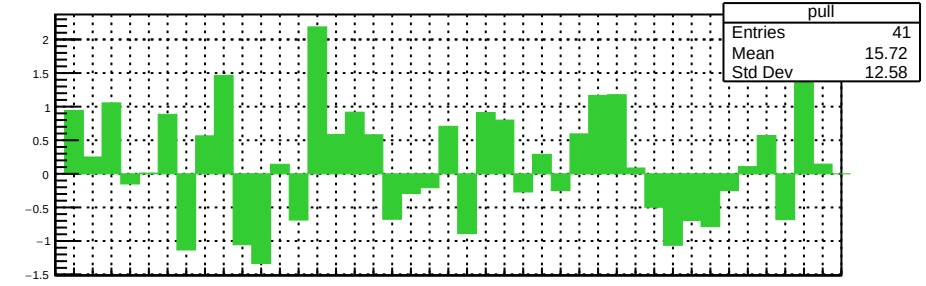

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.83e+04 / 40
p0 294.8 ± 0.3355
500
450
400
350
300
250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

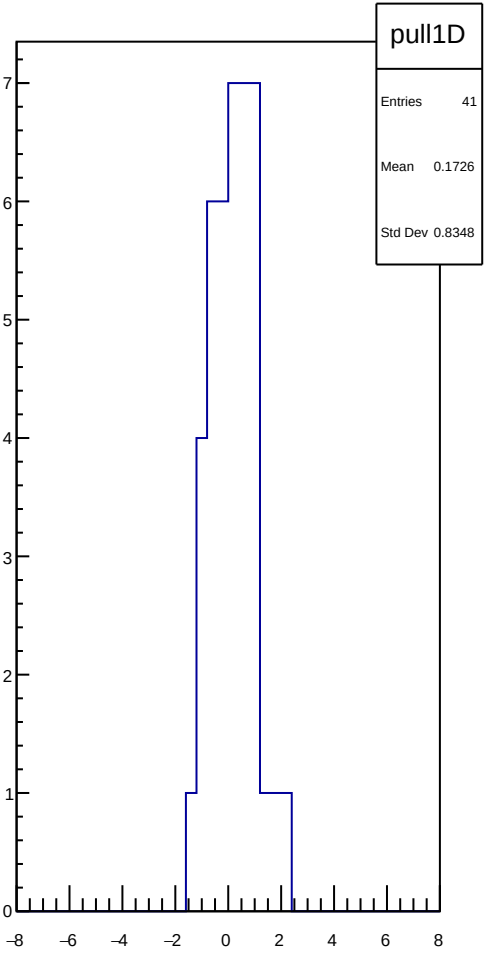

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.06 / 40
p0 −0.2237 ± 0.4745
pull
Entries 41
Mean 37.06
Std Dev 11.01

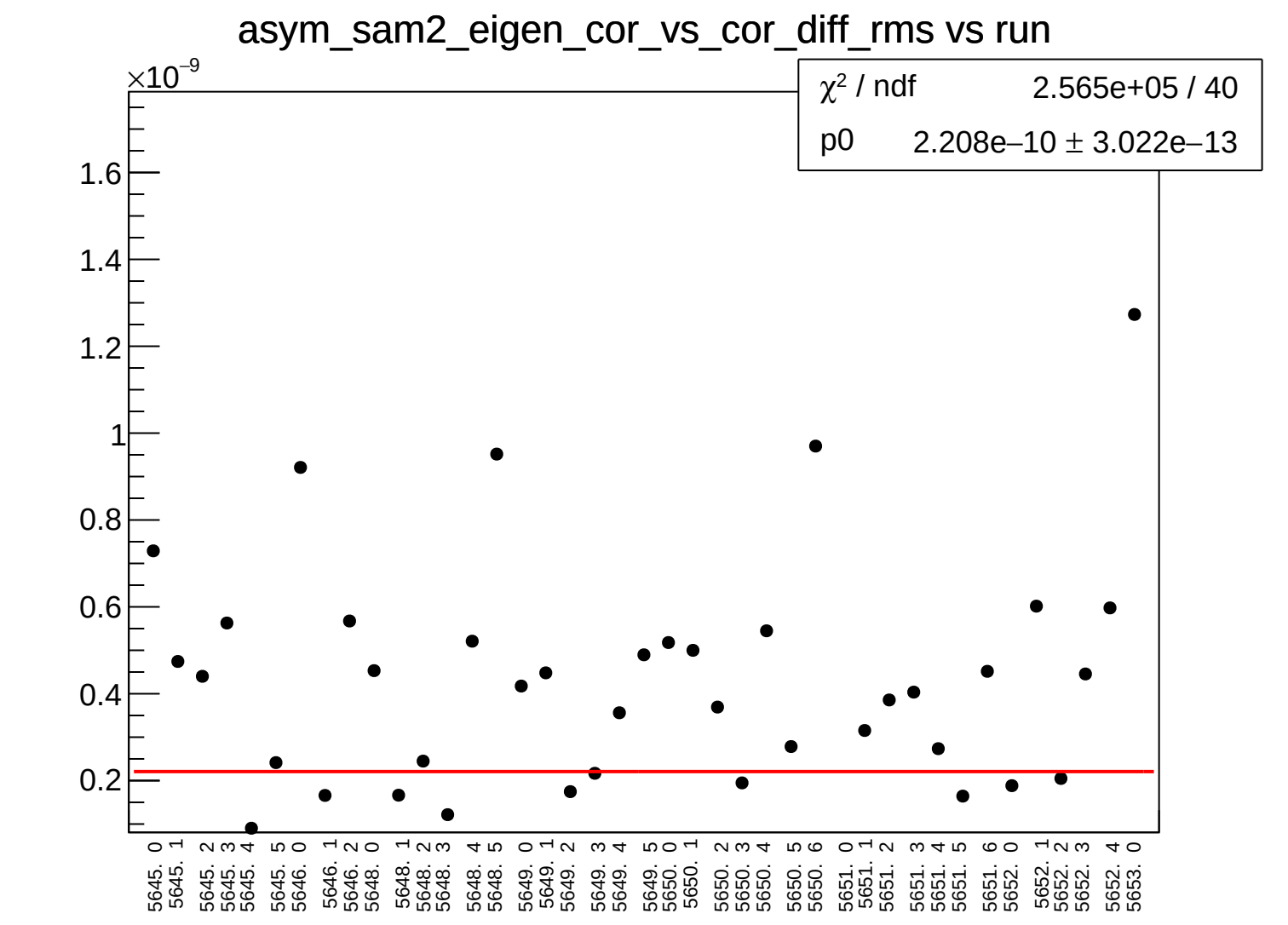

pull1D
Entries 41
Mean −0.02891
Std Dev 1.036

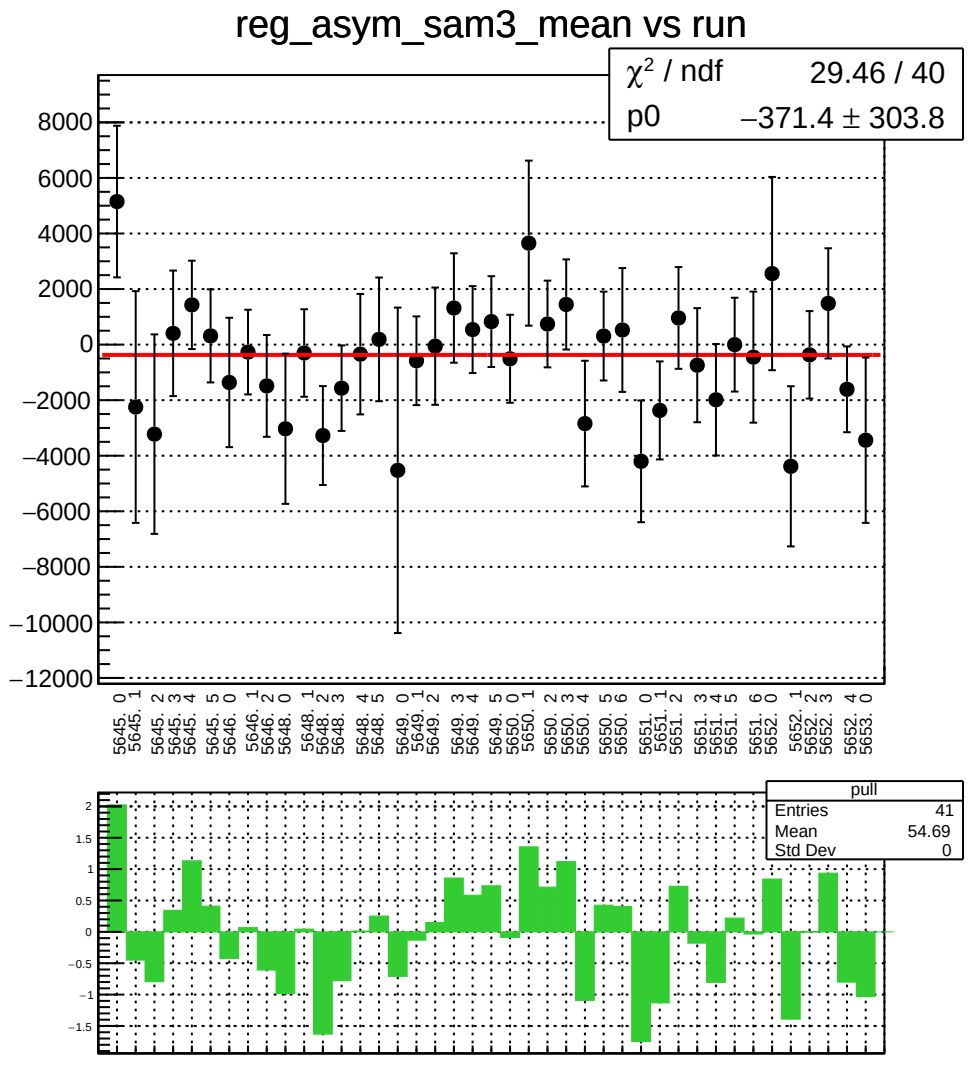

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.83e+04 / 40
p0 294.8 ± 0.3355
500
450
400
350
300
250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

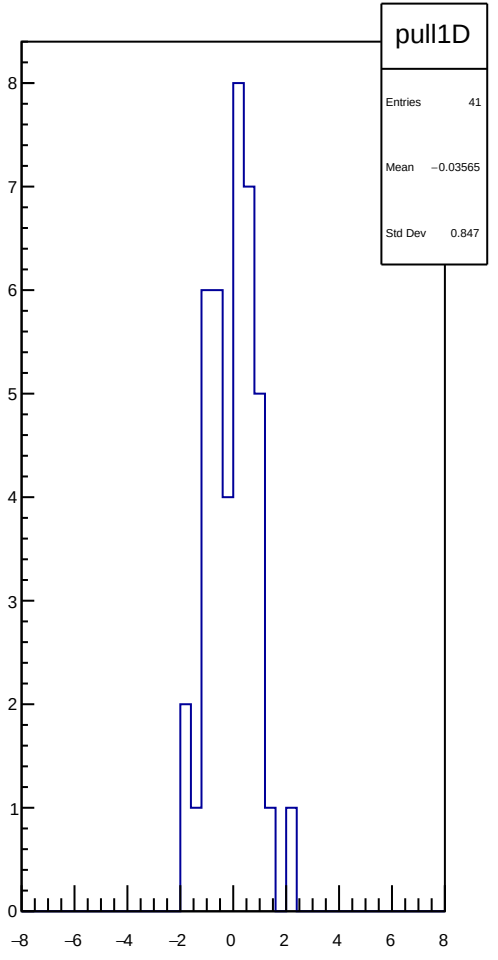

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.8 / 40
p0 −1.047e−13 ± 4.274e−13
40
30
20
10
0
−10
−20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

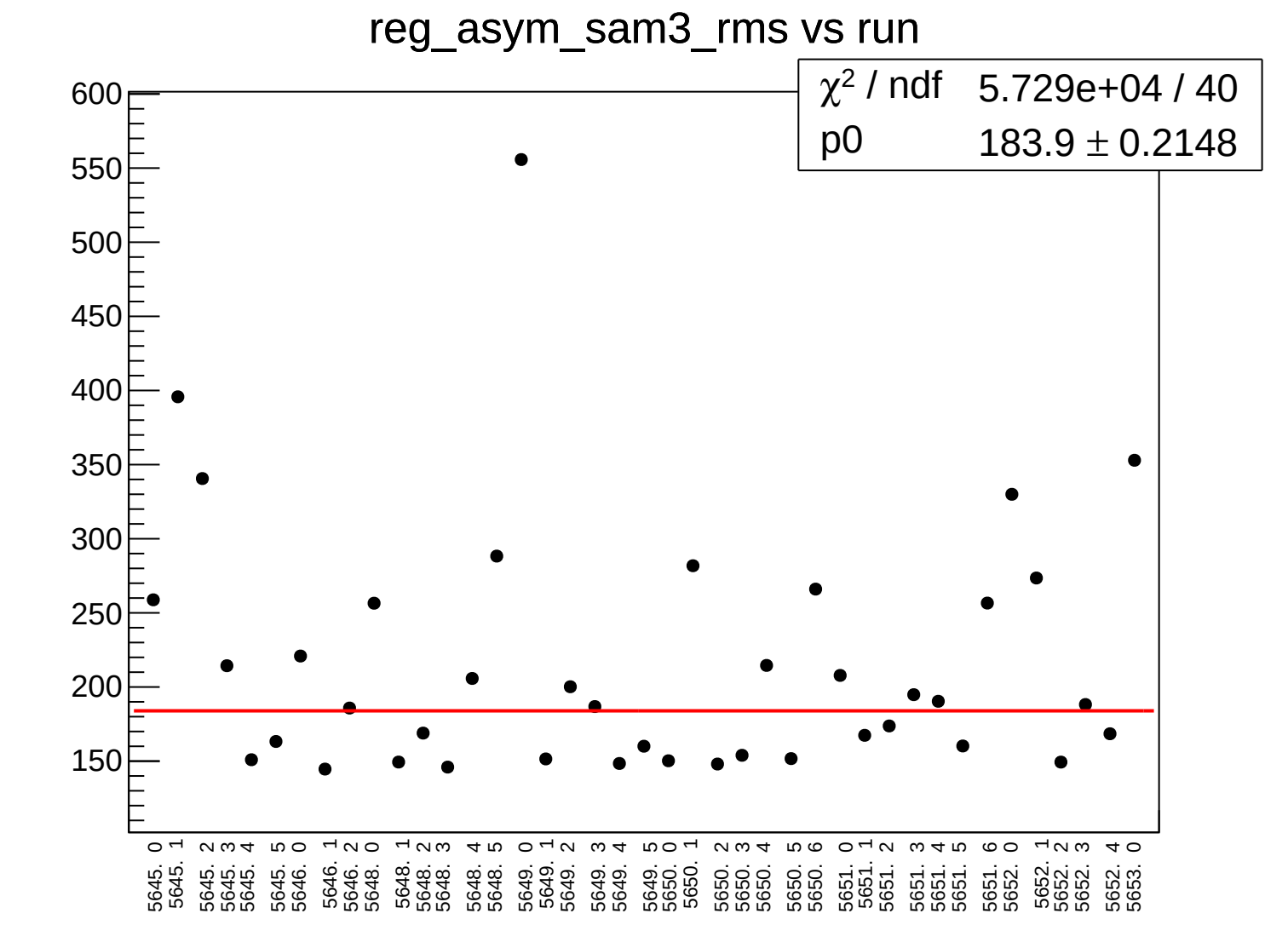

pull
Entries 41
Mean 15.72
Std Dev 12.58
2
1.5
1
0.5
0
−0.5
−1
−1.5

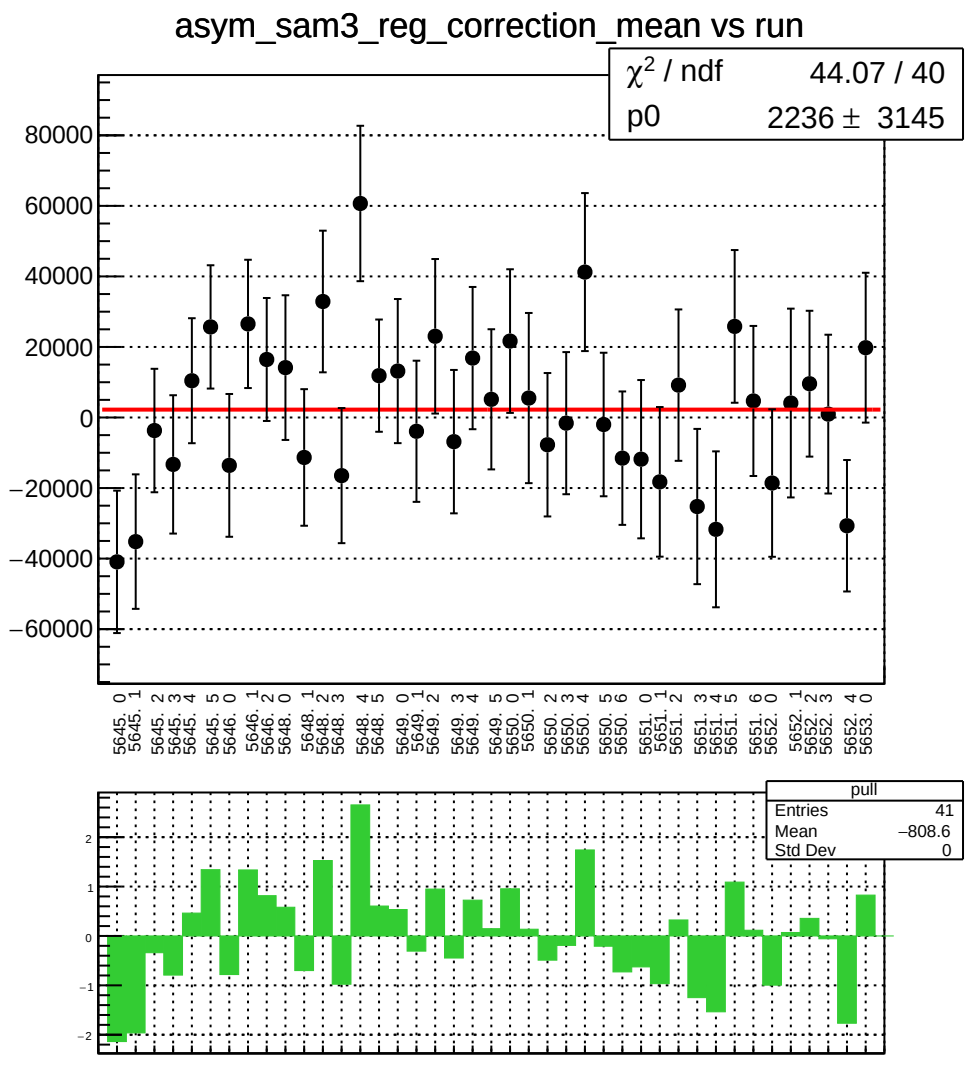

pull1D
Entries 41
Mean 0.1726
Std Dev 0.8348
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

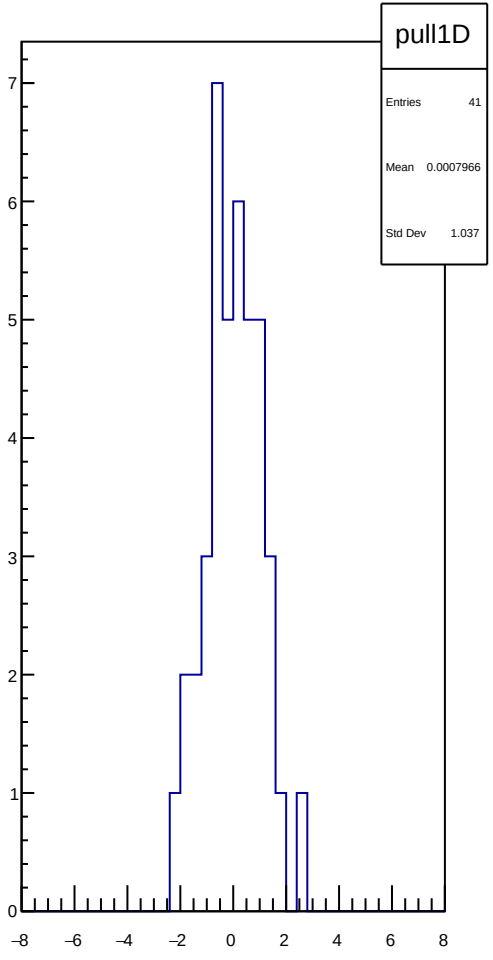

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.565e+05 / 40
p0 2.208e−10 ± 3.022e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

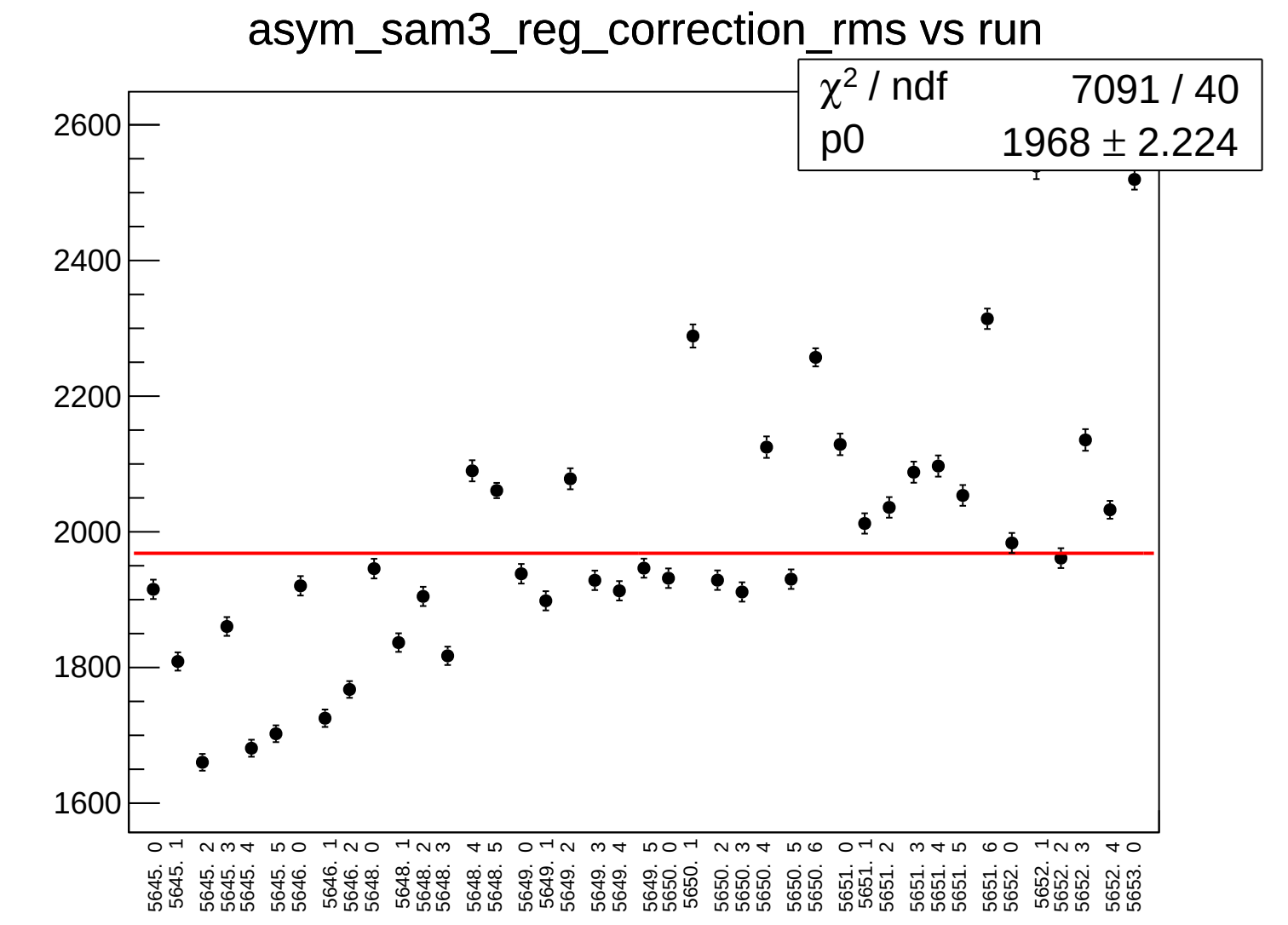

reg_asym_sam3_mean vs run
χ² / ndf 29.46 / 40
p0 −371.4 ± 303.8
pull
Entries 41
Mean 54.69
Std Dev 0

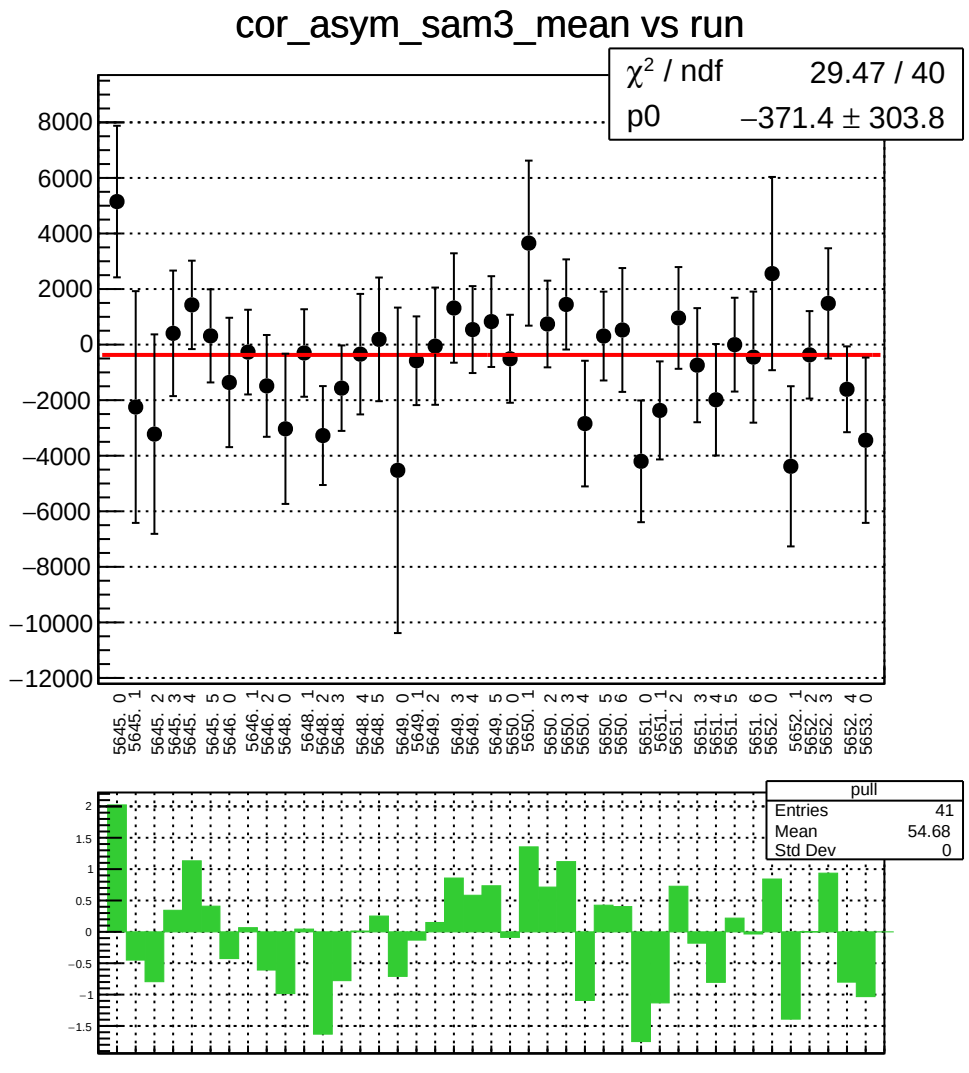

pull1D
Entries 41
Mean −0.03565
Std Dev 0.847

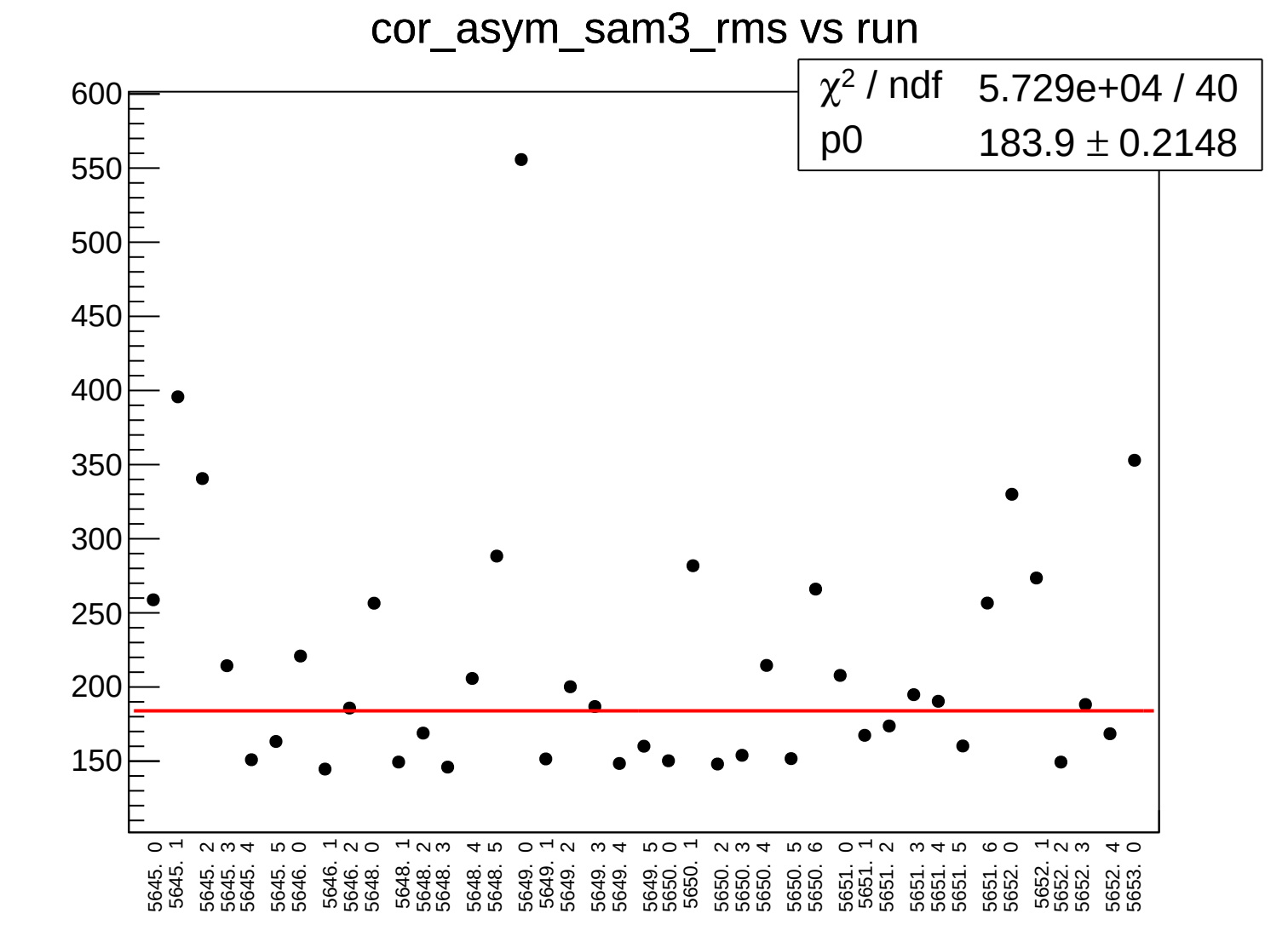

reg_asym_sam3_rms vs run
χ² / ndf 5.729e+04 / 40
p0 183.9 ± 0.2148
600
550
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

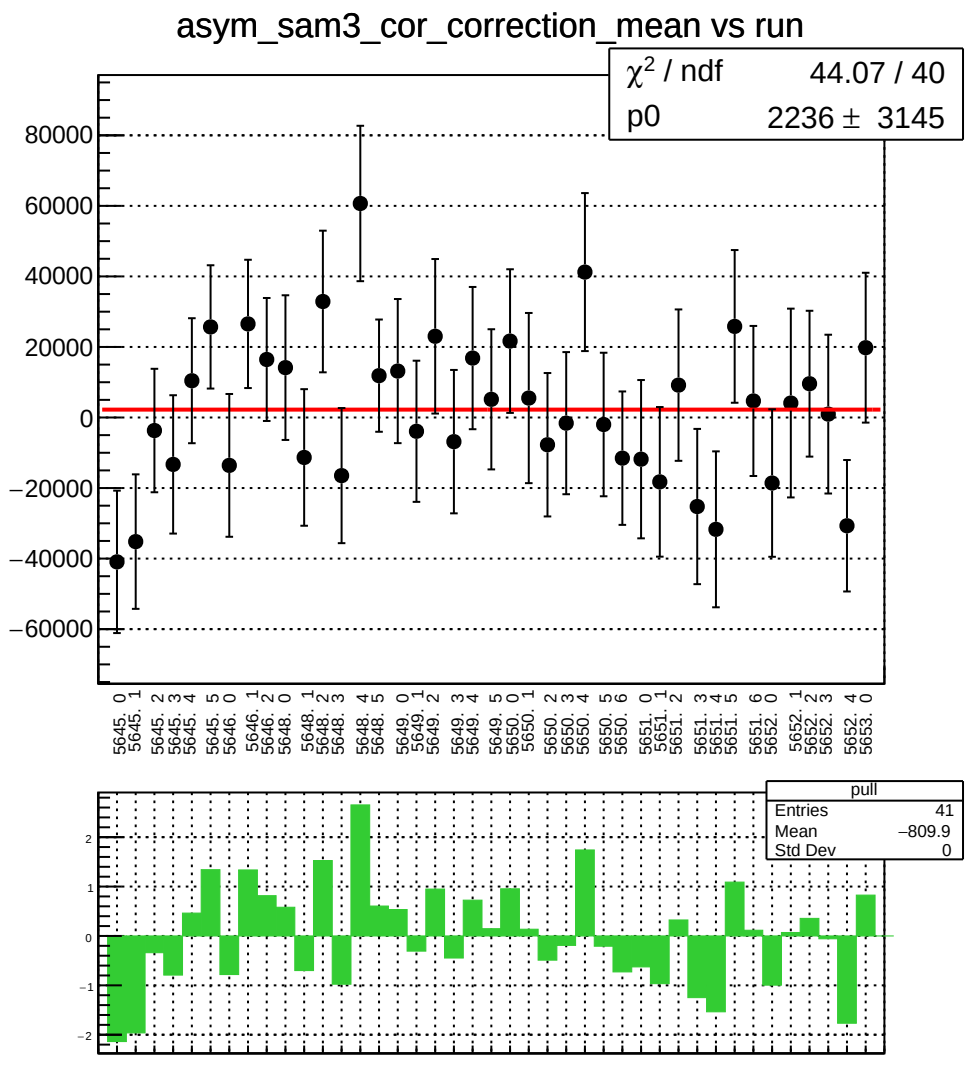

asym_sam3_reg_correction_mean vs run
χ² / ndf 44.07 / 40
p0 2236 ± 3145
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −808.6
Std Dev 0
2
1
0
−1
−2

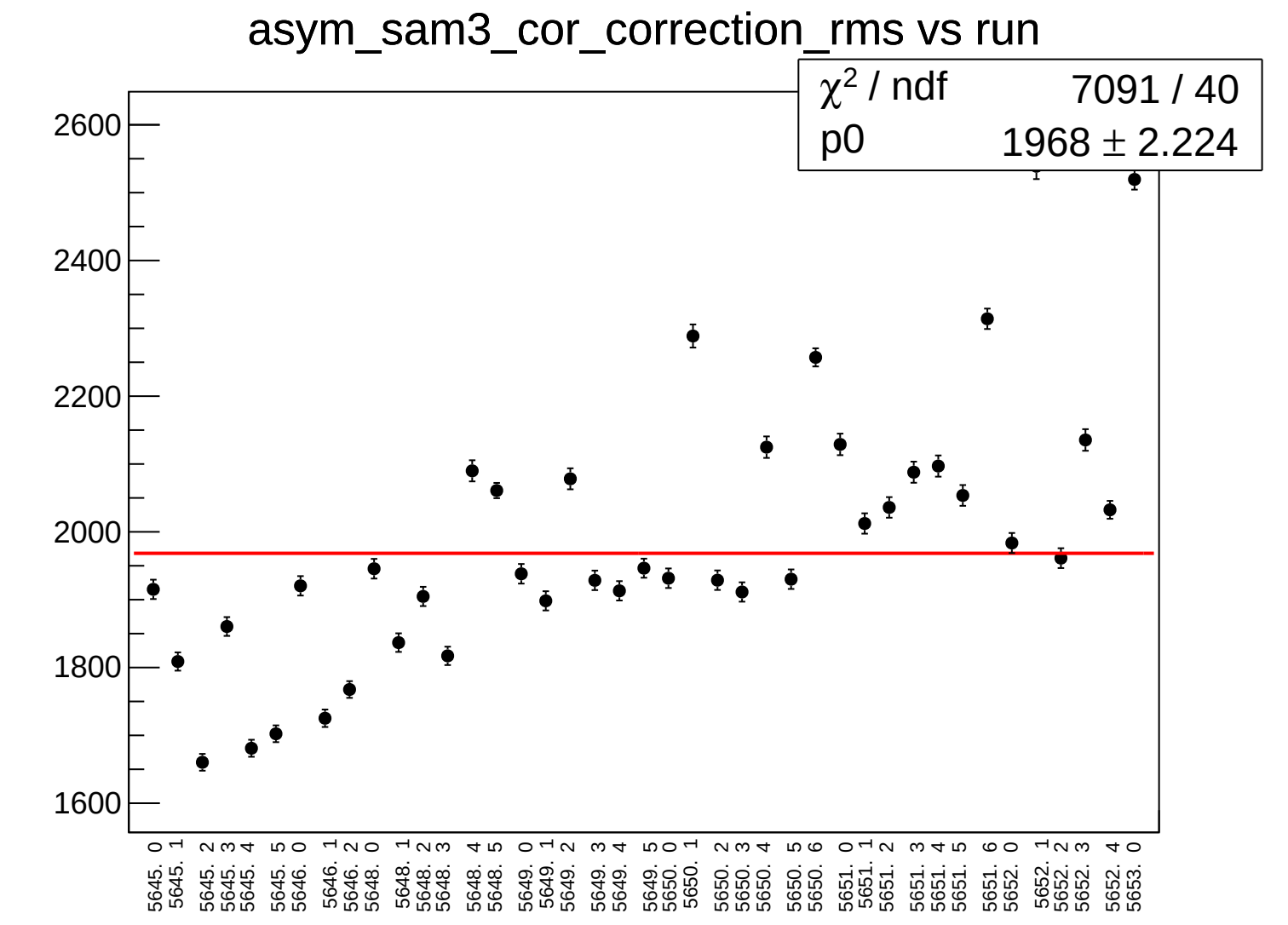

pull1D
Entries 41
Mean 0.0007966
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

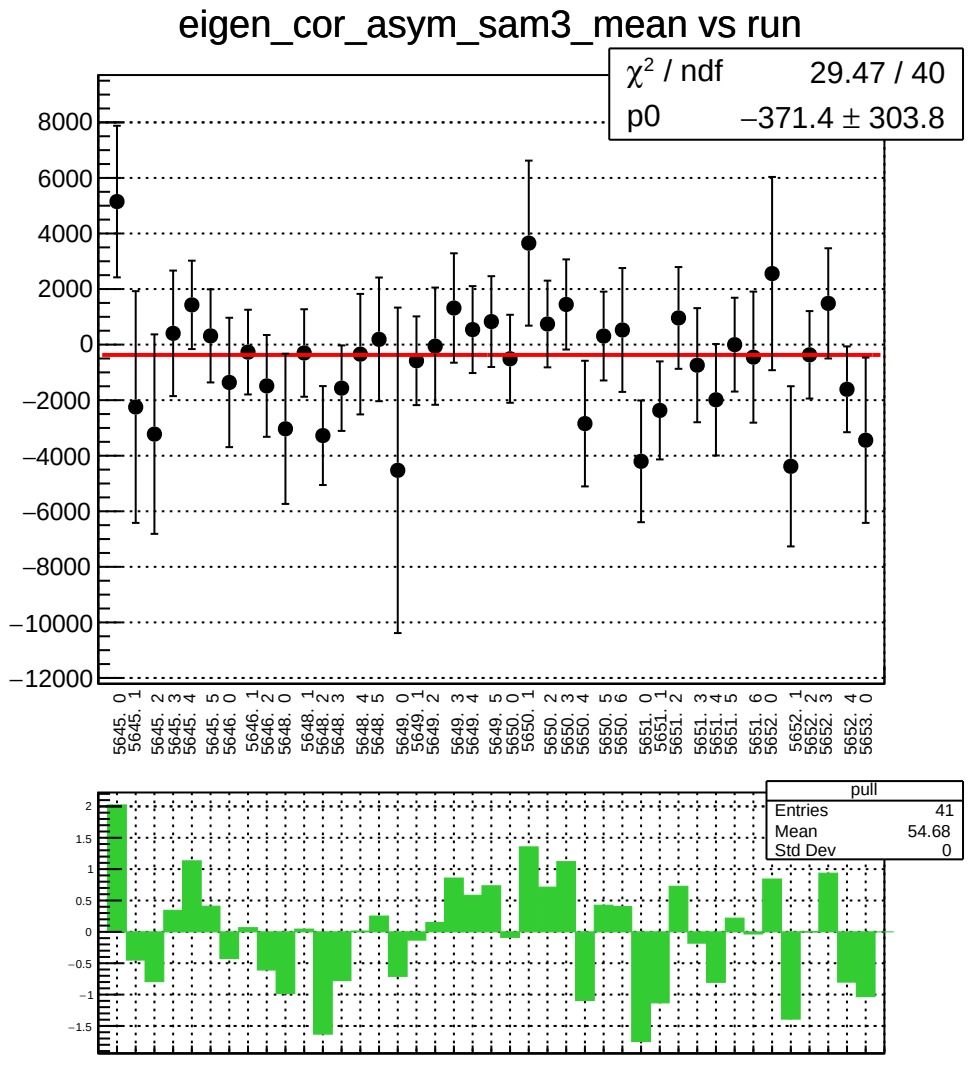

asym_sam3_reg_correction_rms vs run
χ² / ndf 7091 / 40
p0 1968 ± 2.224
2600
2400
2200
2000
1800
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

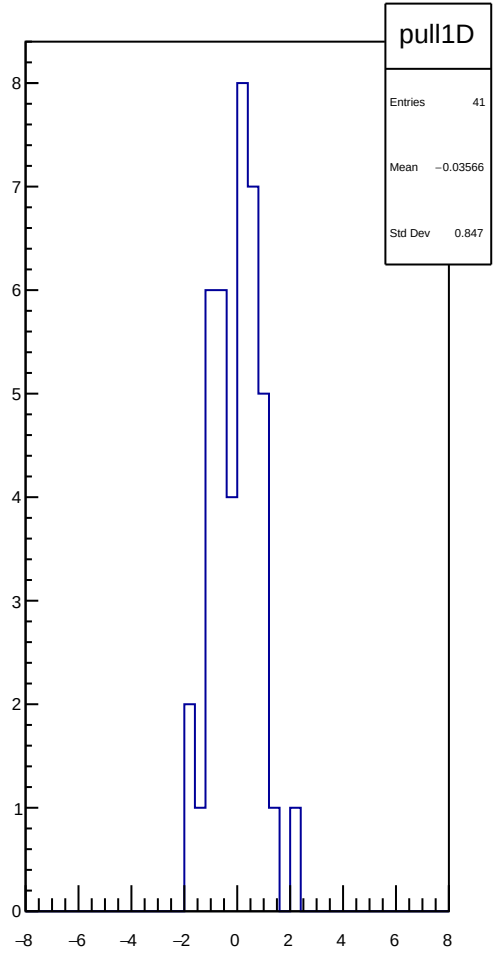

cor_asym_sam3_mean vs run
χ² / ndf 29.47 / 40
p0 −371.4 ± 303.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 54.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.03566
Std Dev 0.847
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

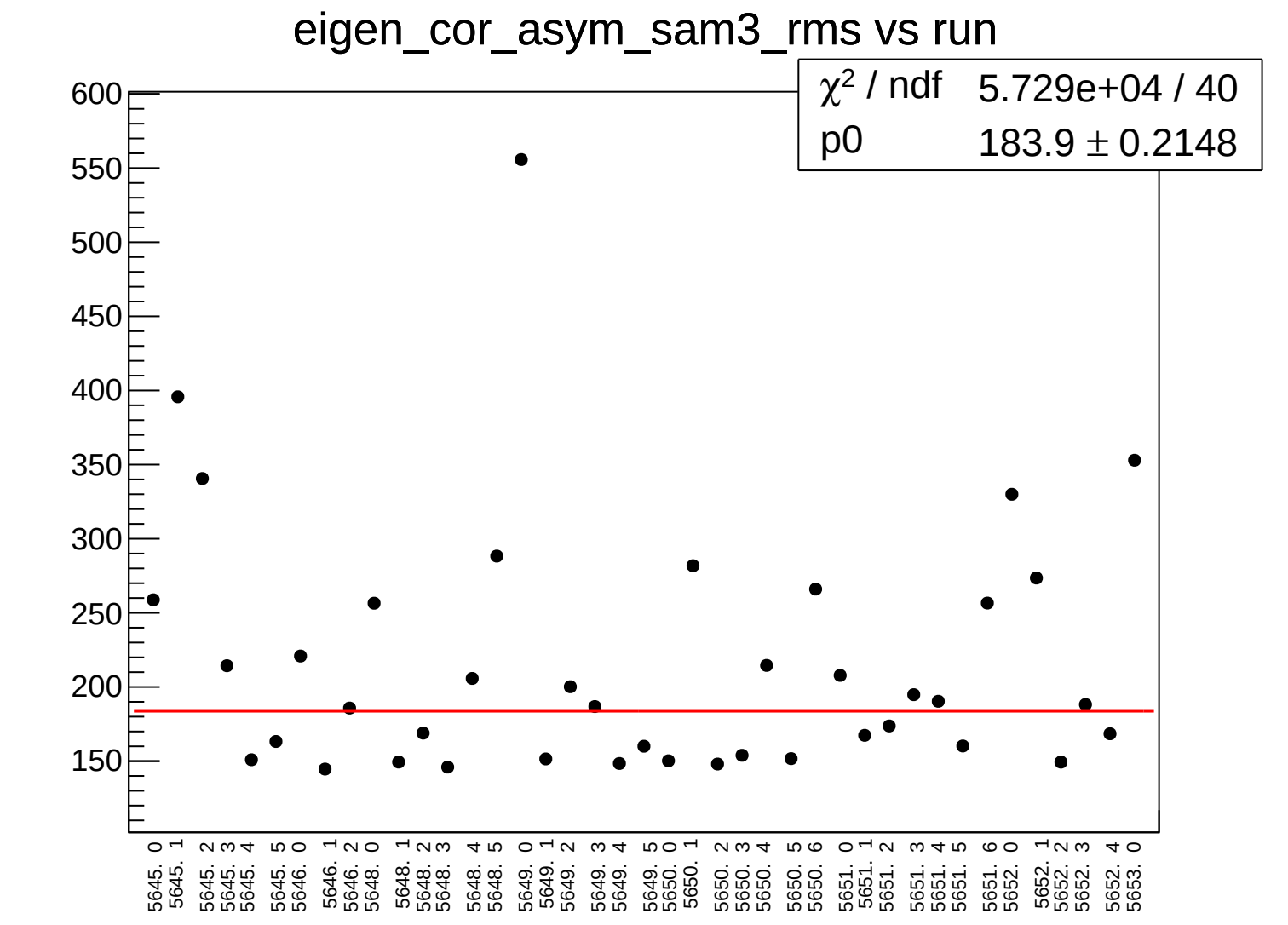

cor_asym_sam3_rms vs run
χ² / ndf 5.729e+04 / 40
p0 183.9 ± 0.2148
600
550
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

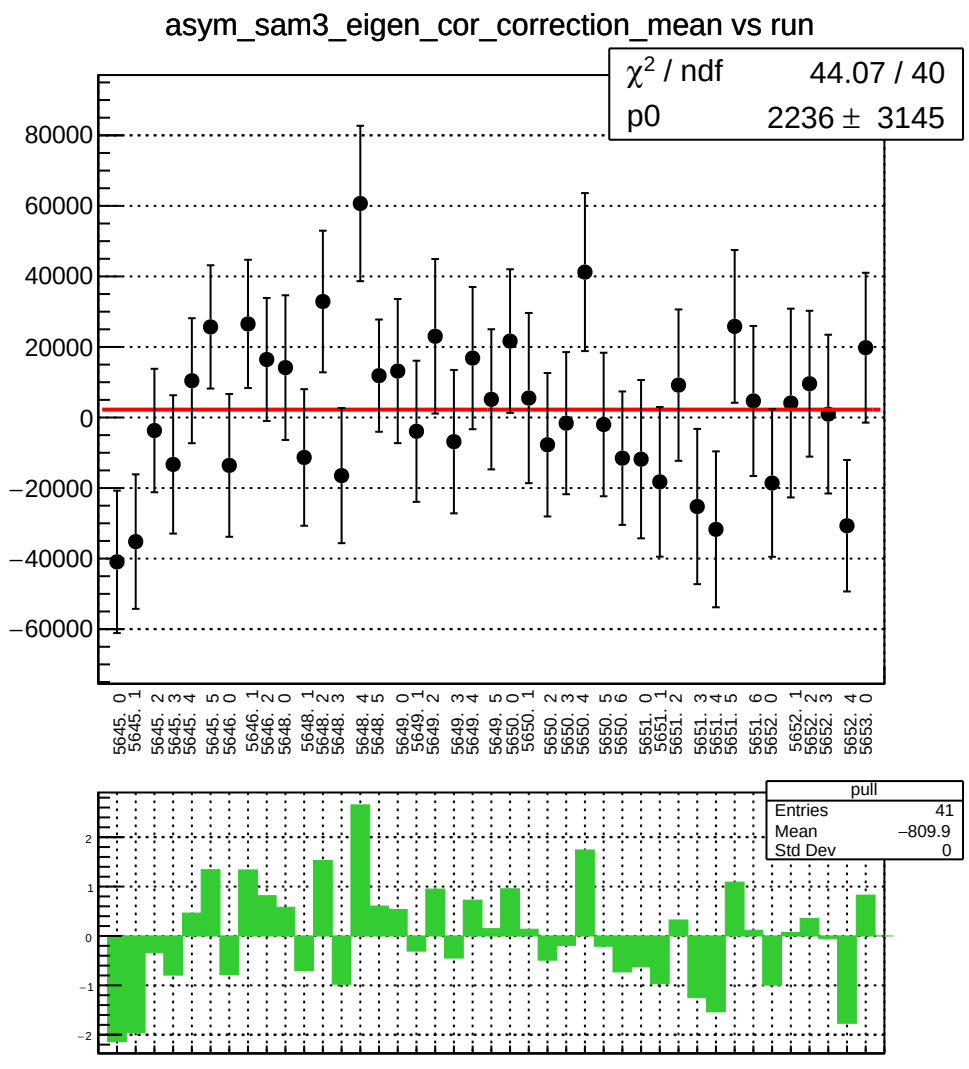

asym_sam3_cor_correction_mean vs run
χ² / ndf 44.07 / 40
p0 2236 ± 3145
pull
Entries 41
Mean −809.9
Std Dev 0
pull1D
Entries 41
Mean 0.0007954
Std Dev 1.037

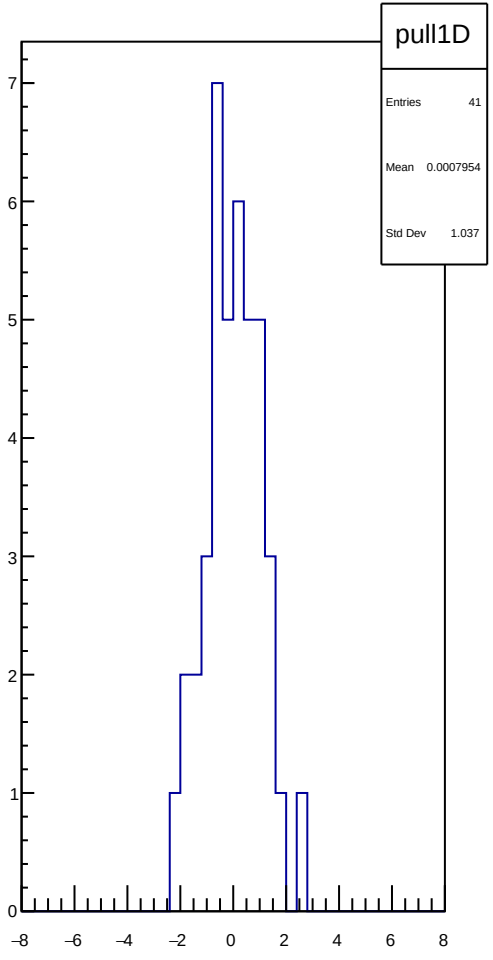

asym_sam3_cor_correction_rms vs run
χ² / ndf 7091 / 40
p0 1968 ± 2.224
2600
2400
2200
2000
1800
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

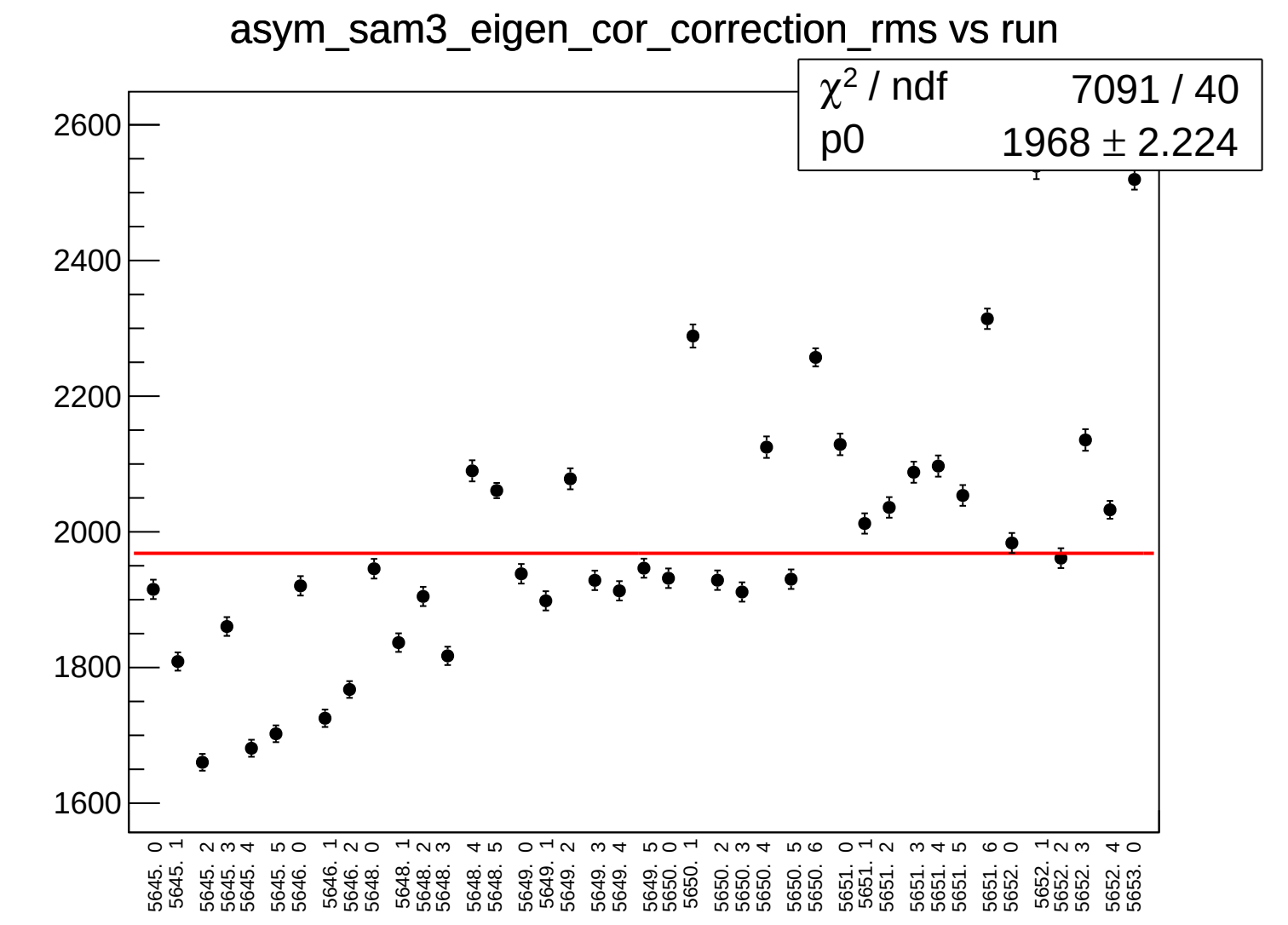

eigen_cor_asym_sam3_mean vs run
χ² / ndf 29.47 / 40
p0 −371.4 ± 303.8
pull
Entries 41
Mean 54.68
Std Dev 0

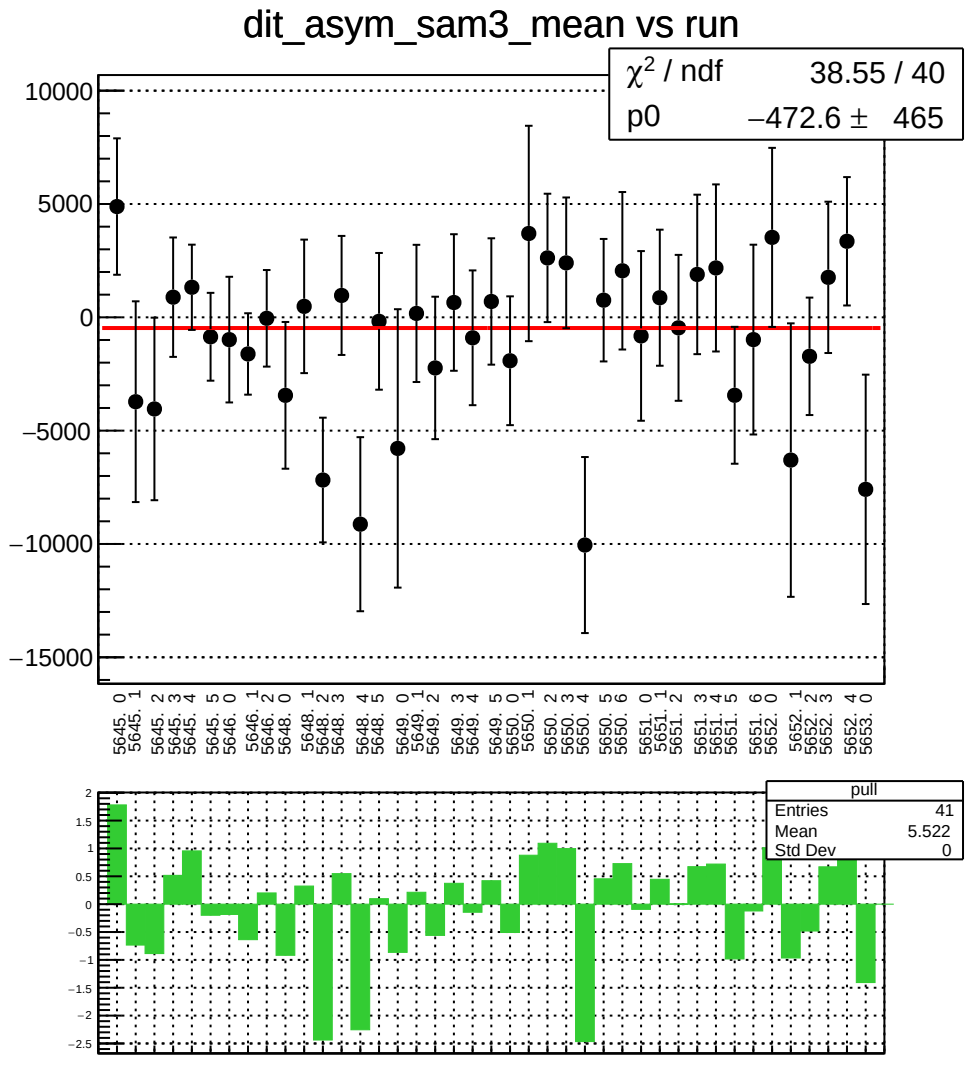

pull1D
Entries 41
Mean −0.03566
Std Dev 0.847

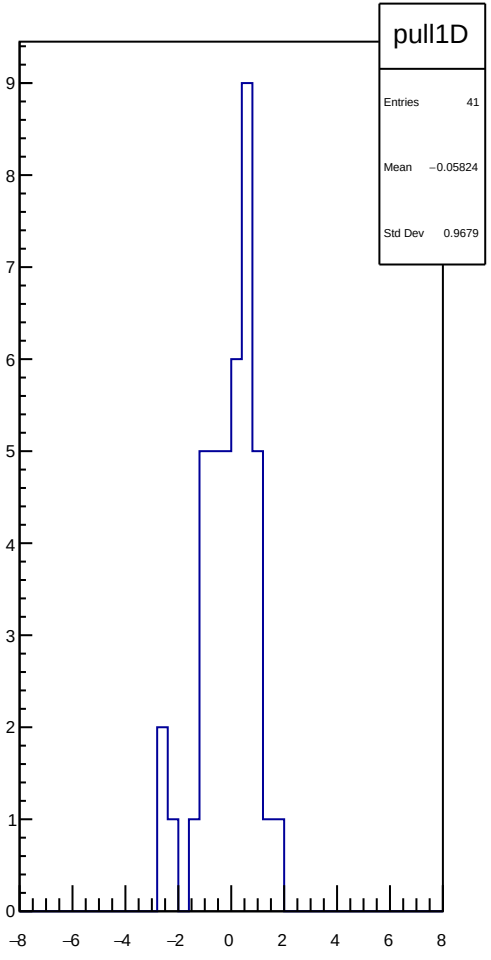

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 5.729e+04 / 40
p0 183.9 ± 0.2148
600
550
500
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

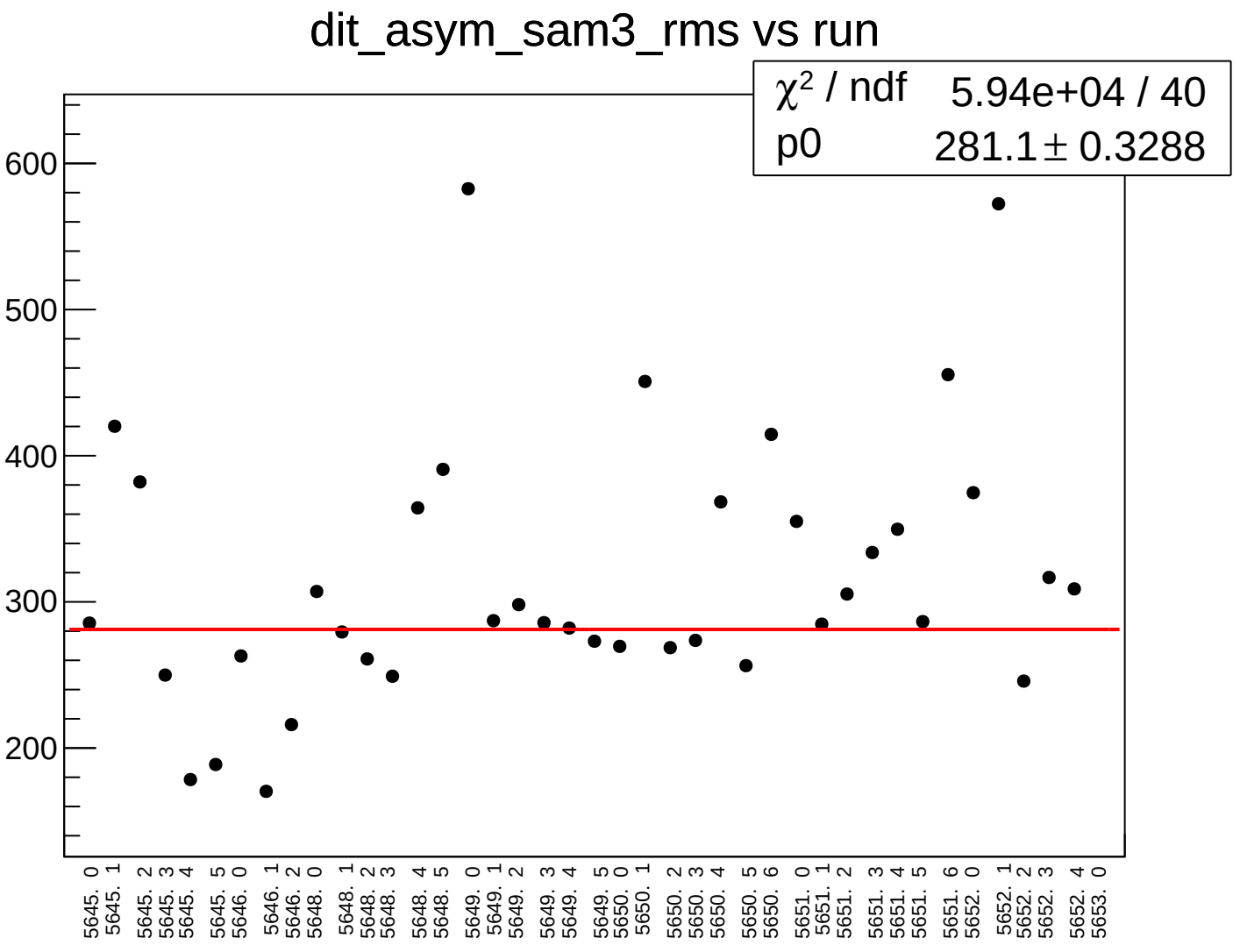

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 44.07 / 40
p0 2236 ± 3145
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −809.9
Std Dev 0
2
1
0
−1
−2

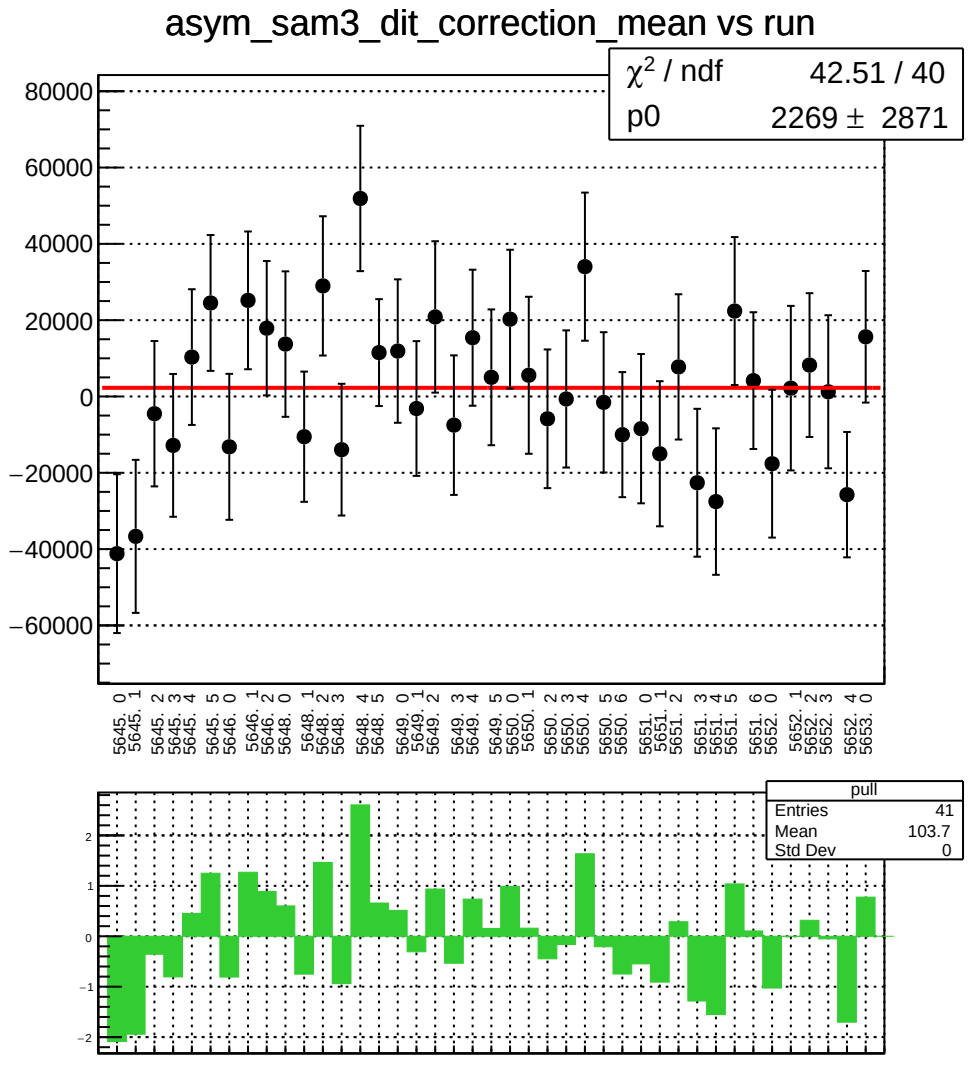

pull1D
Entries 41
Mean 0.0007954
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

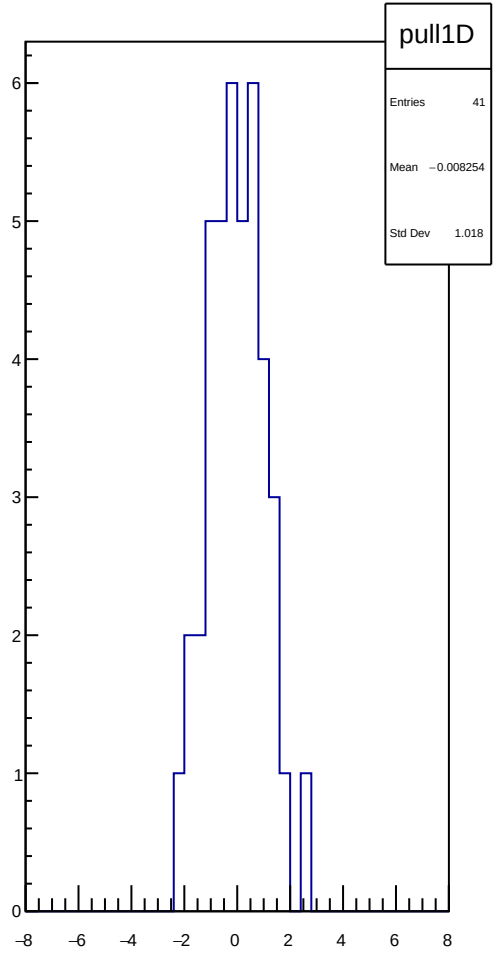

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 7091 / 40
p0 1968 ± 2.224
2600
2400
2200
2000
1800
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

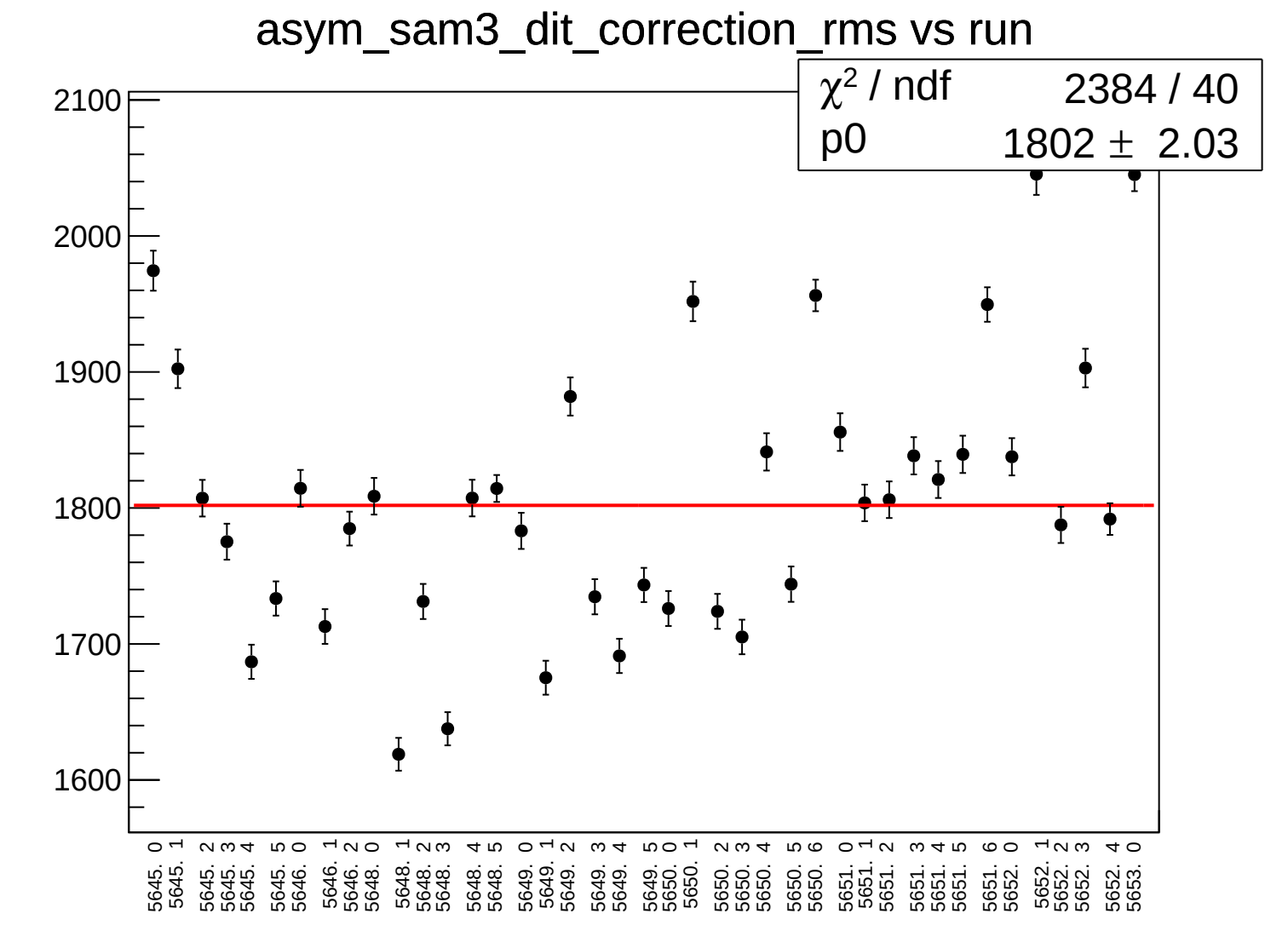

dit_asym_sam3_mean vs run
χ² / ndf 38.55 / 40
p0 −472.6 ± 465
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 5.522
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

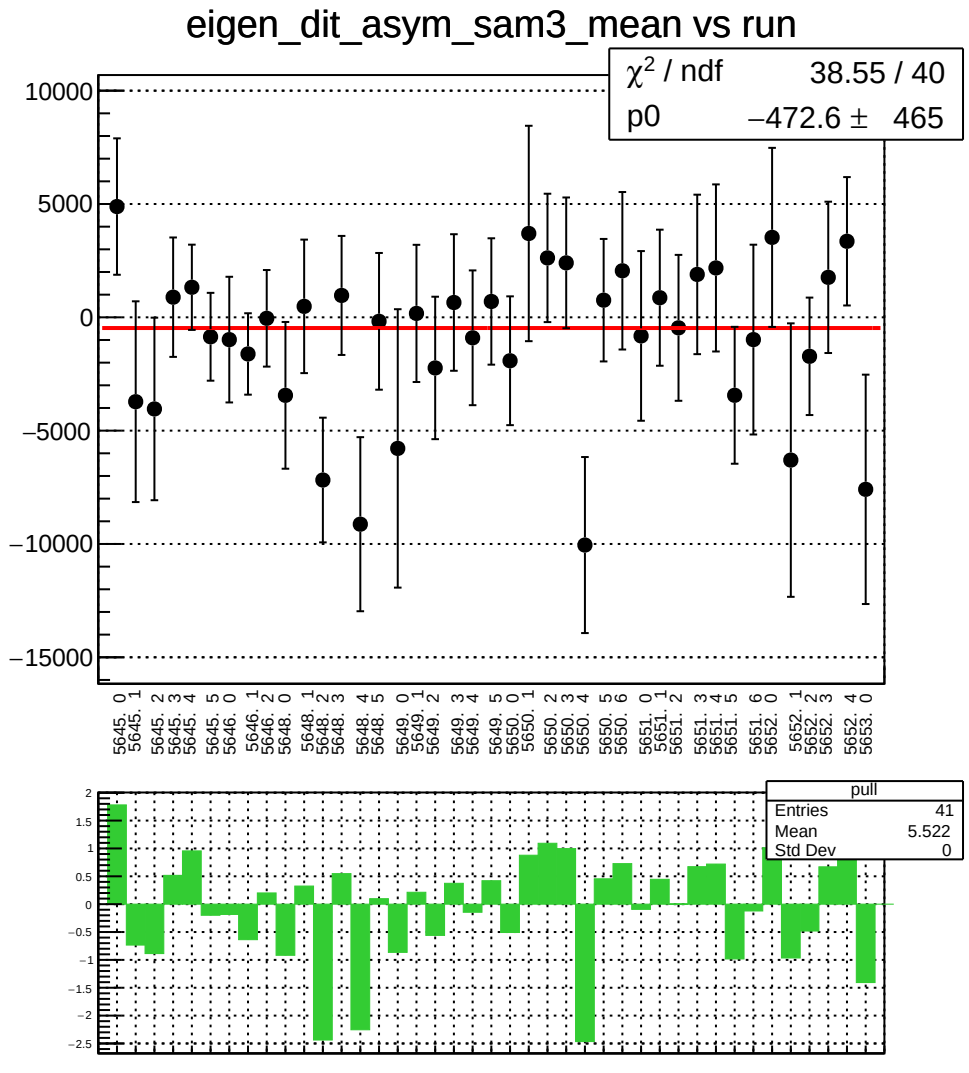

pull1D
Entries 41
Mean −0.05824
Std Dev 0.9679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

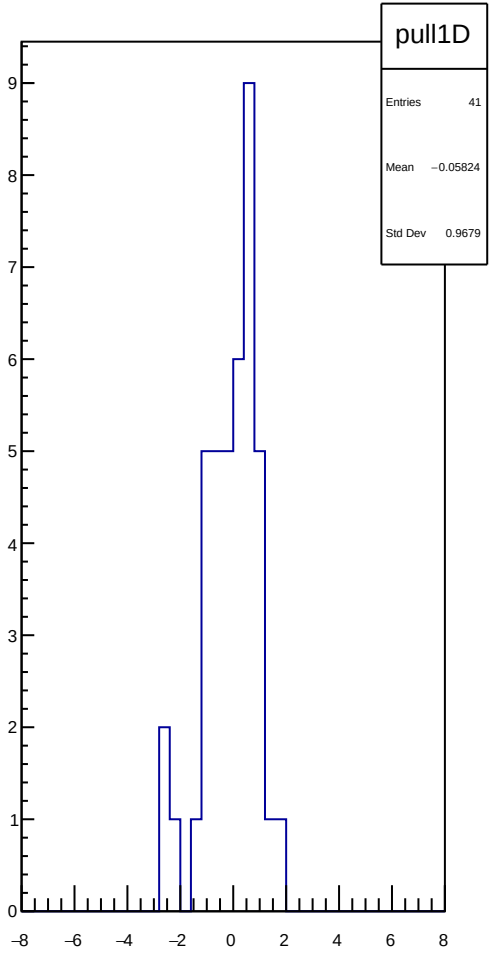

dit_asym_sam3_rms vs run
χ² / ndf 5.94e+04 / 40
p0 281.1 ± 0.3288
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

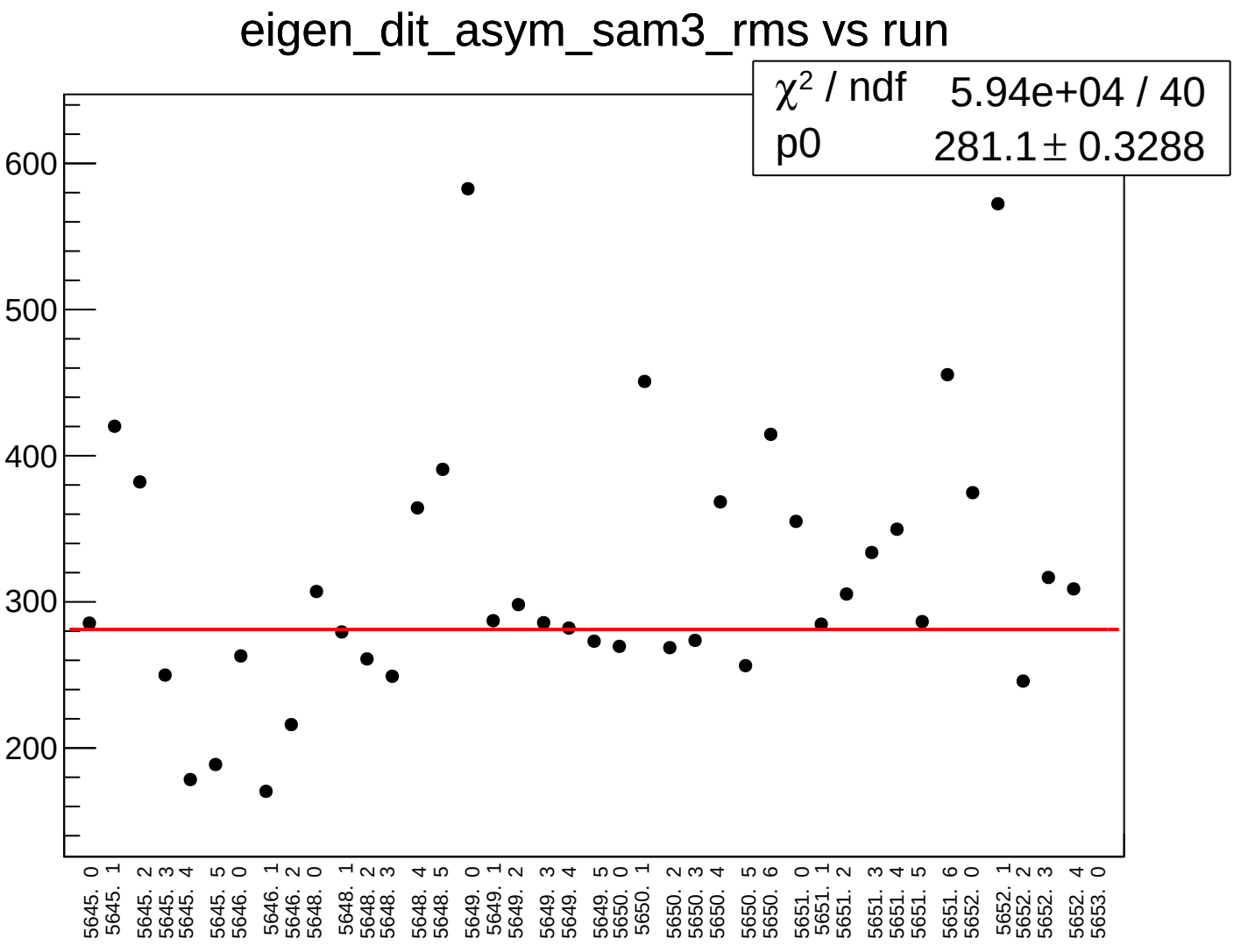

asym_sam3_dit_correction_mean vs run
χ² / ndf 42.51 / 40
p0 2269 ± 2871
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 103.7
Std Dev 0
2
1
0
−1
−2

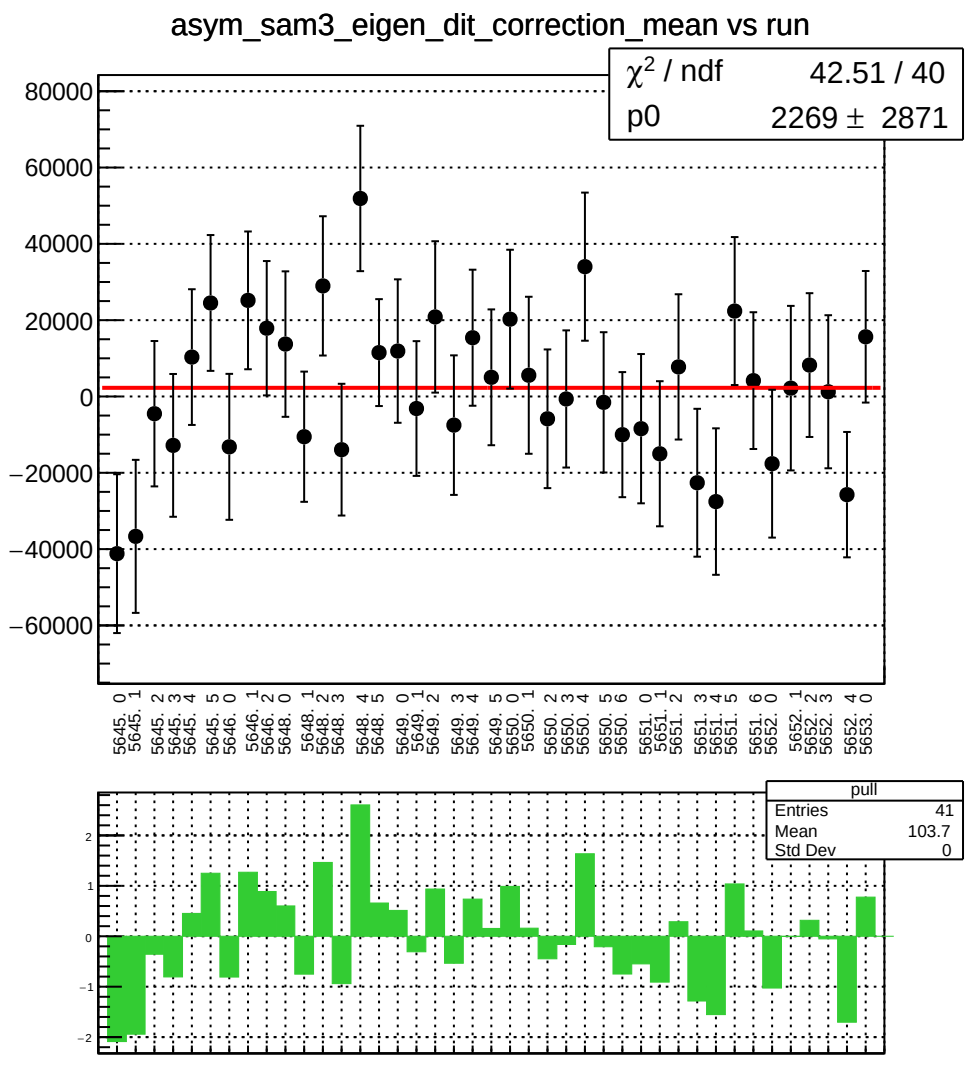

pull1D
Entries 41
Mean −0.008254
Std Dev 1.018
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

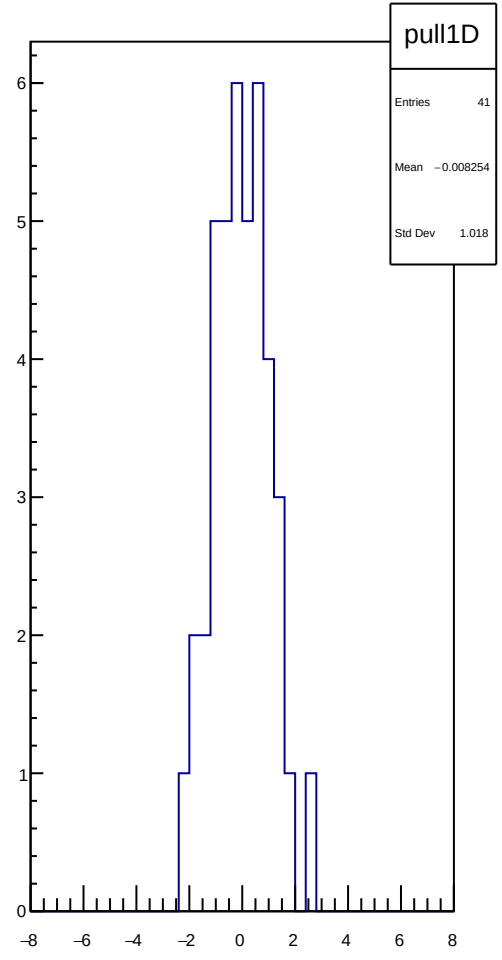

asym_sam3_dit_correction_rms vs run
χ² / ndf 2384 / 40
p0 1802 ± 2.03
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

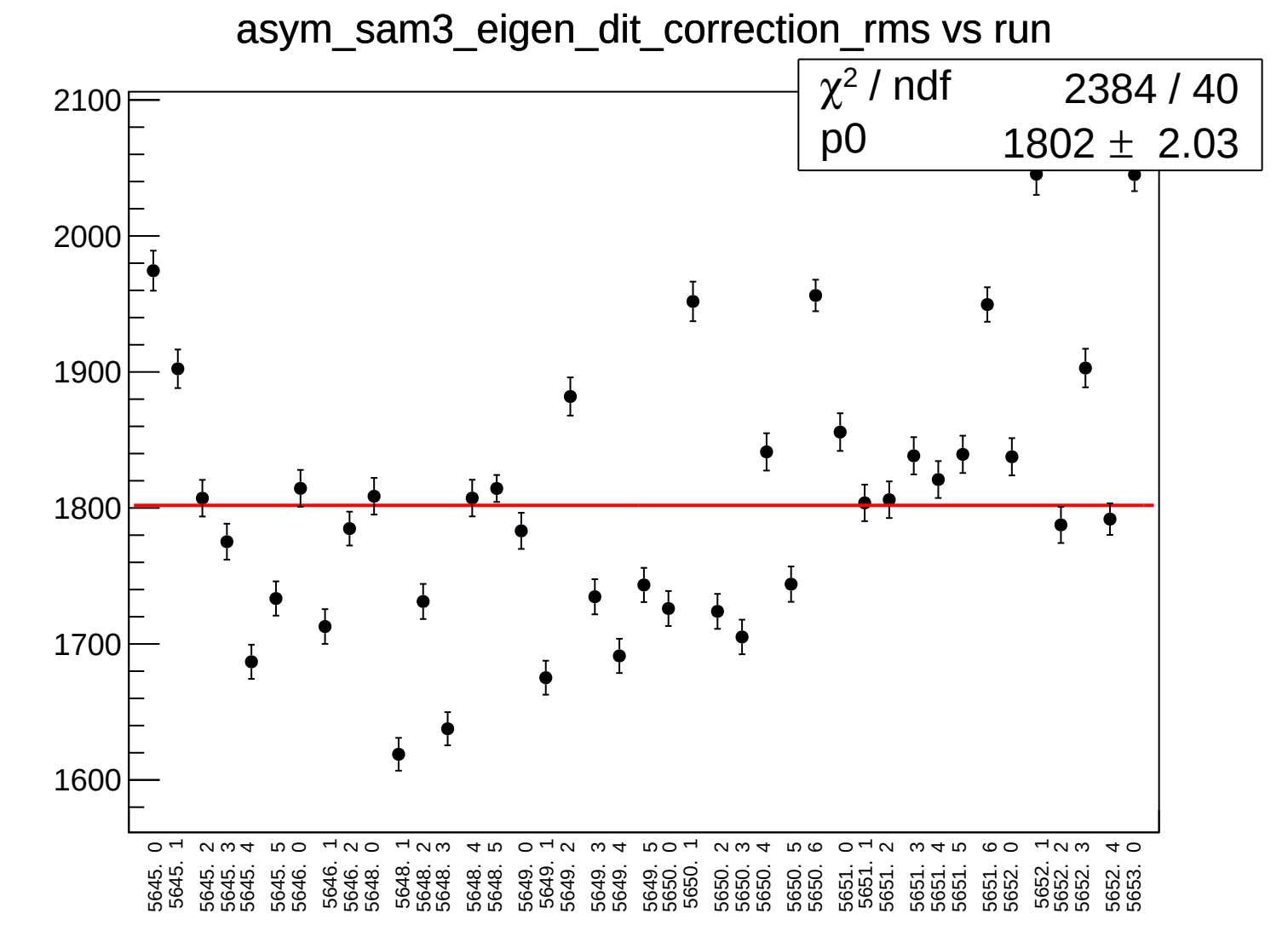

eigen_dit_asym_sam3_mean vs run
χ² / ndf 38.55 / 40
p0 −472.6 ± 465
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 5.522
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

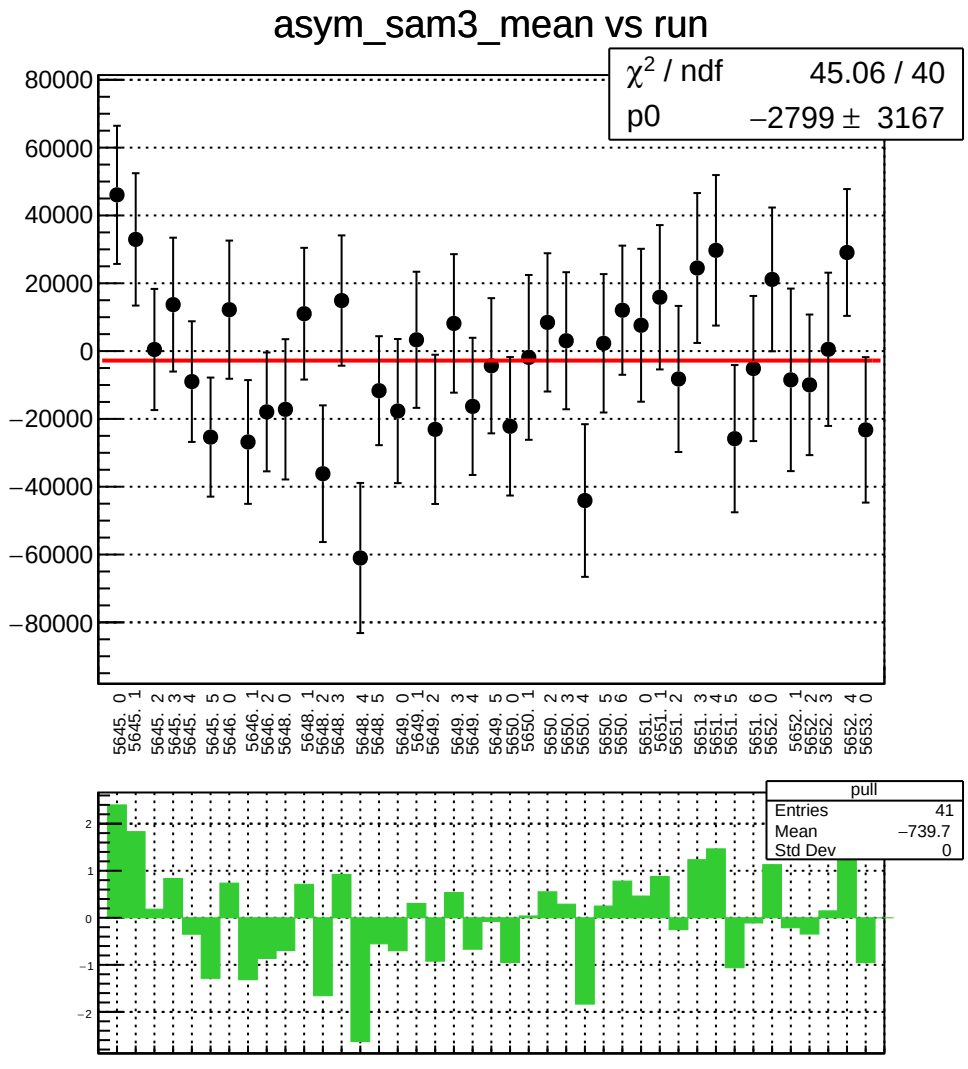

pull1D
Entries 41
Mean −0.05824
Std Dev 0.9679
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

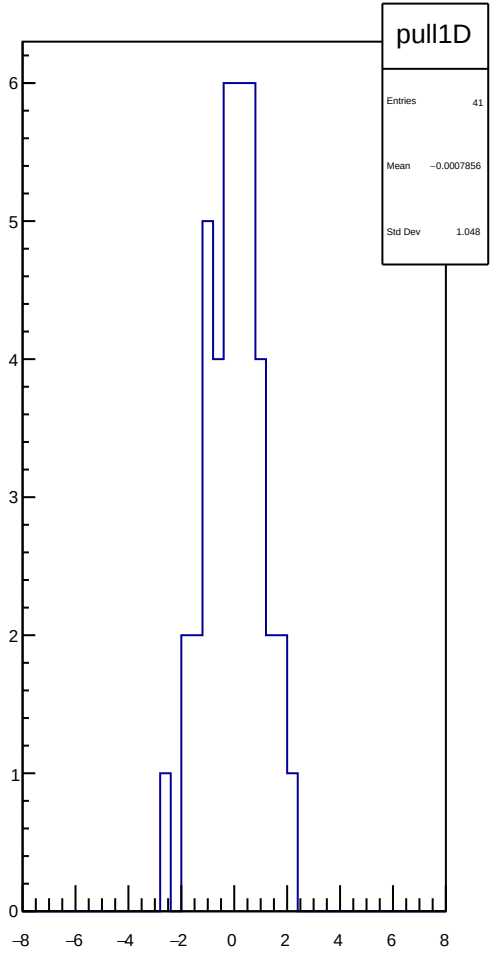

eigen_dit_asym_sam3_rms vs run
χ² / ndf 5.94e+04 / 40
p0 281.1 ± 0.3288
600
500
400
300
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

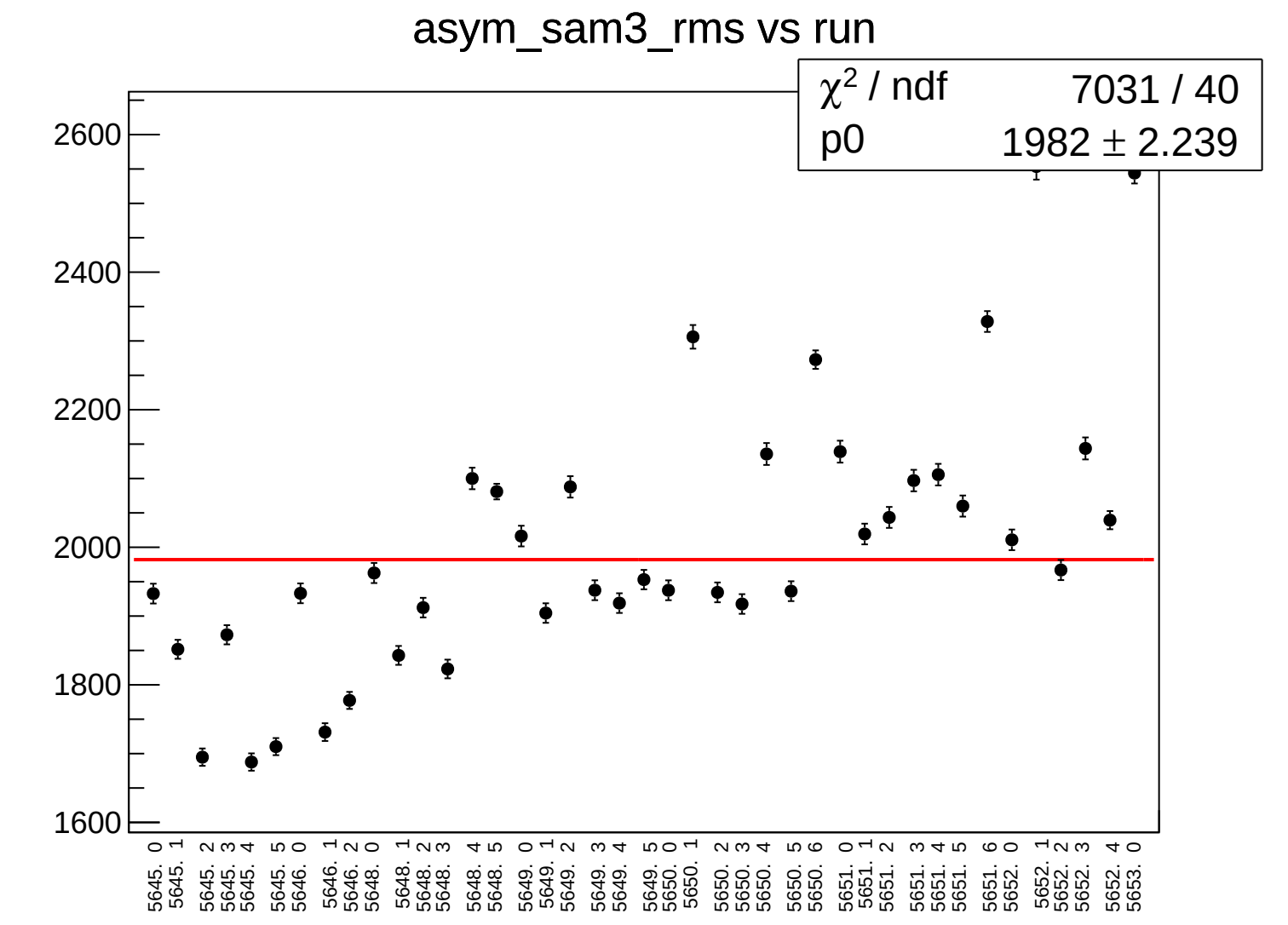

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 42.51 / 40
p0 2269 ± 2871
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 103.7
Std Dev 0
2
1
0
−1
−2

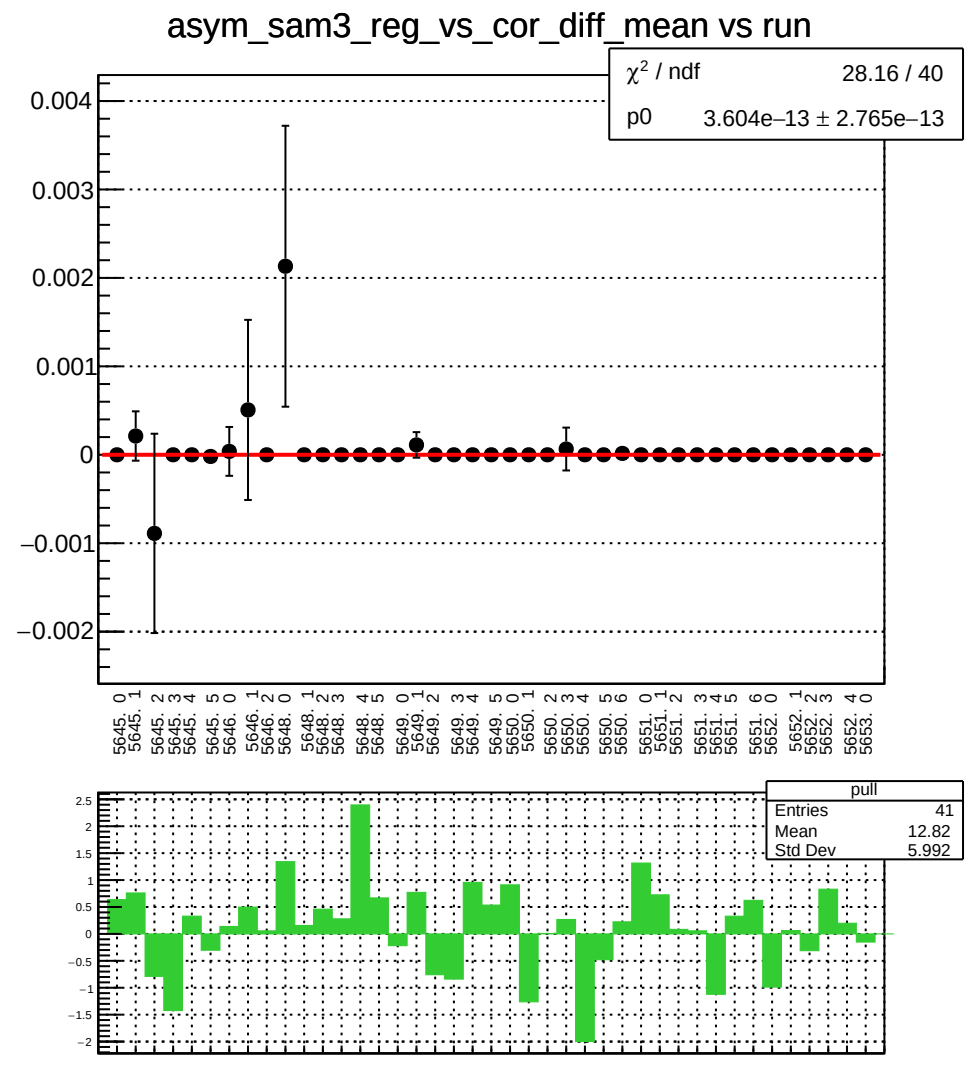

pull1D
Entries 41
Mean −0.008254
Std Dev 1.018
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

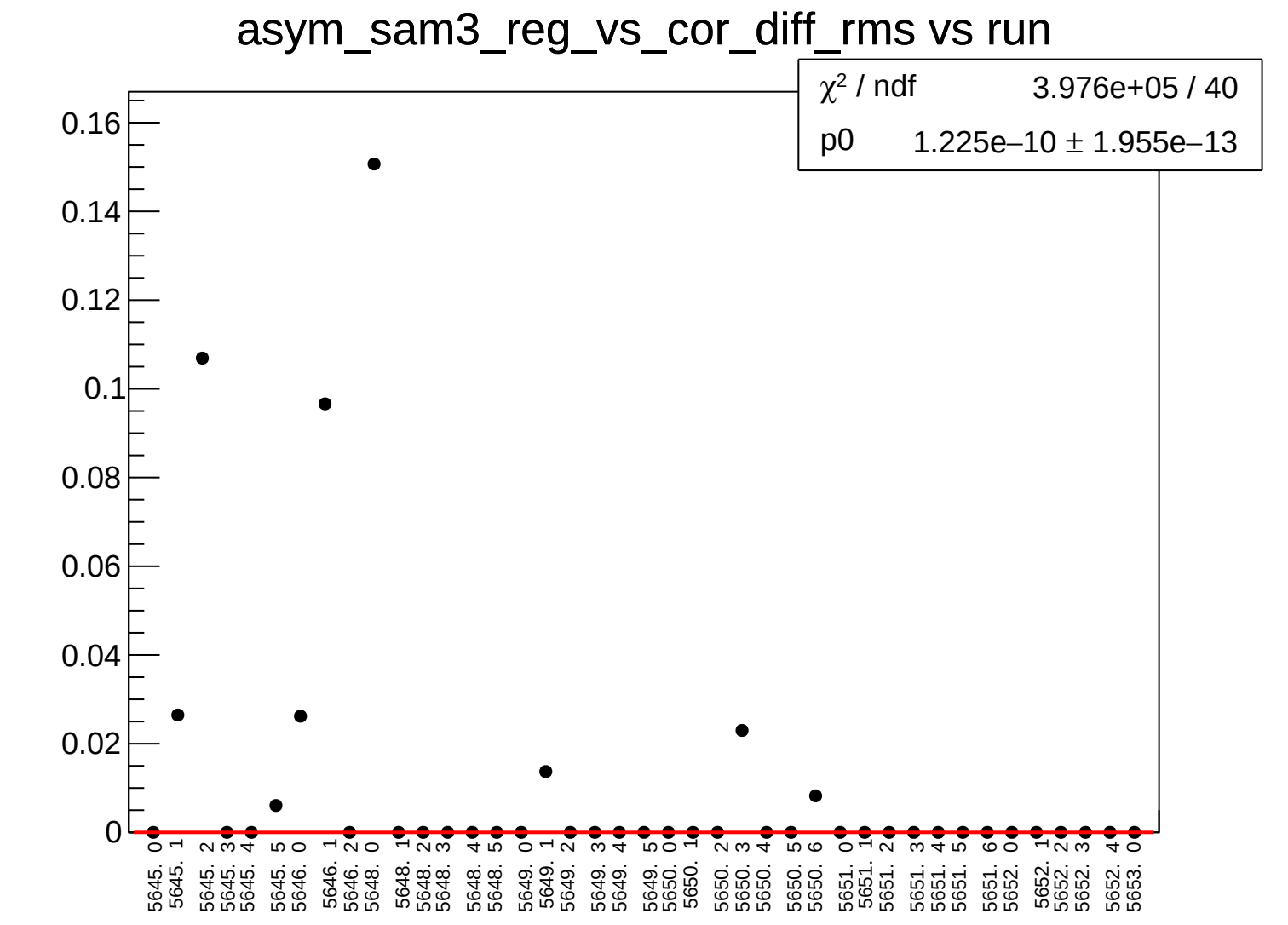

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2384 / 40
p0 1802 ± 2.03
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

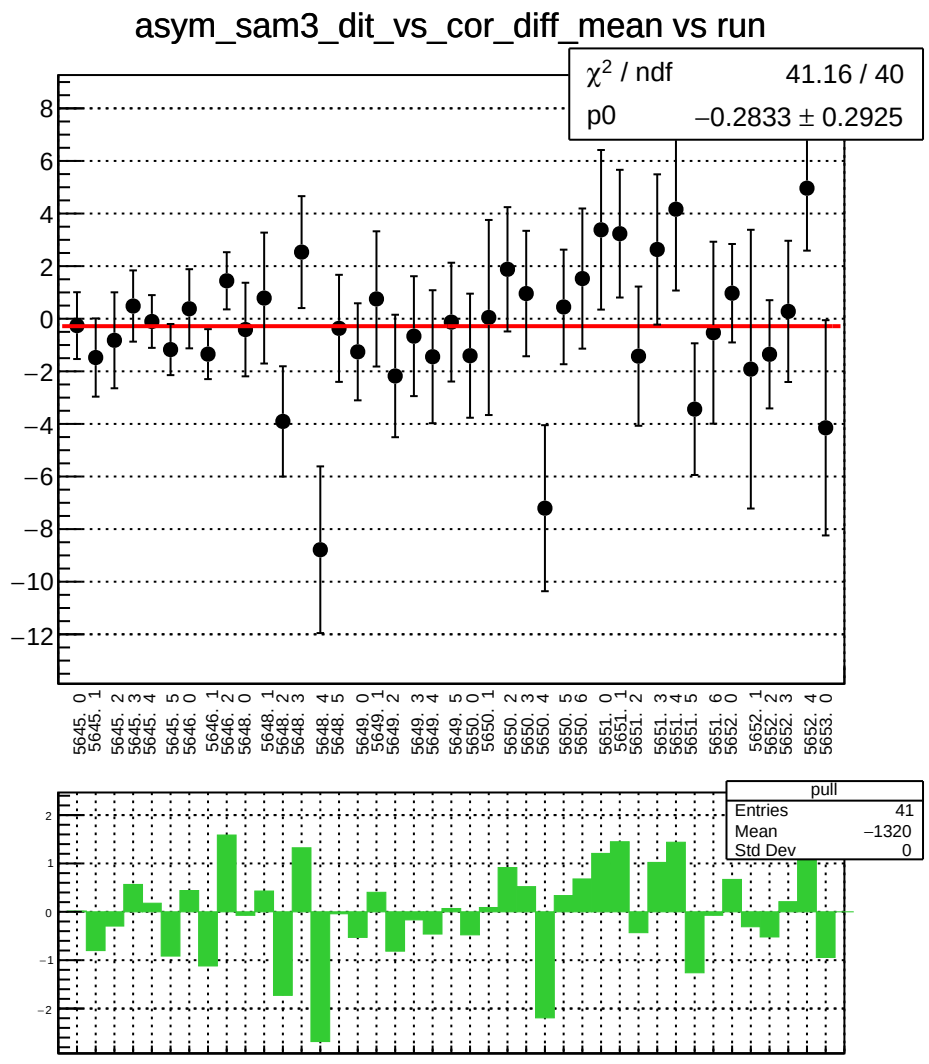

asym_sam3_mean vs run
χ² / ndf 45.06 / 40
p0 −2799 ± 3167
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −739.7
Std Dev 0
2
1
0
−1
−2

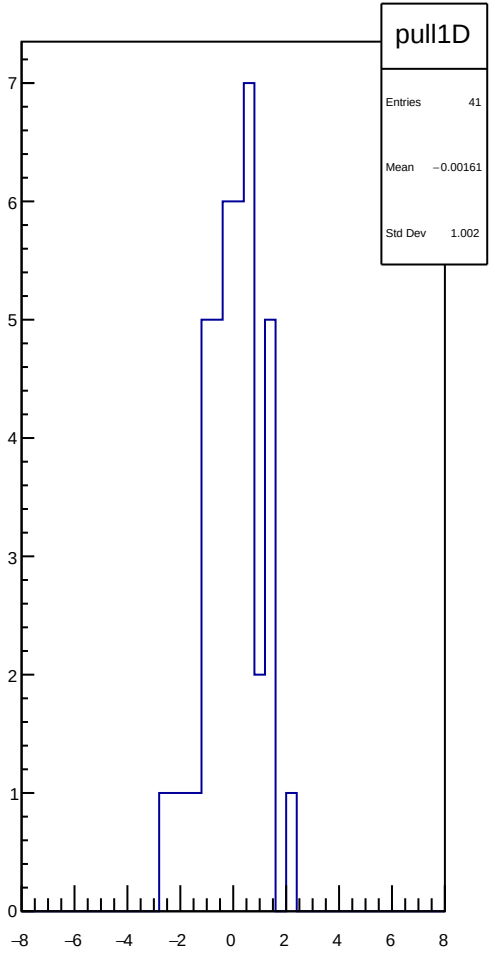

pull1D
Entries 41
Mean −0.0007856
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

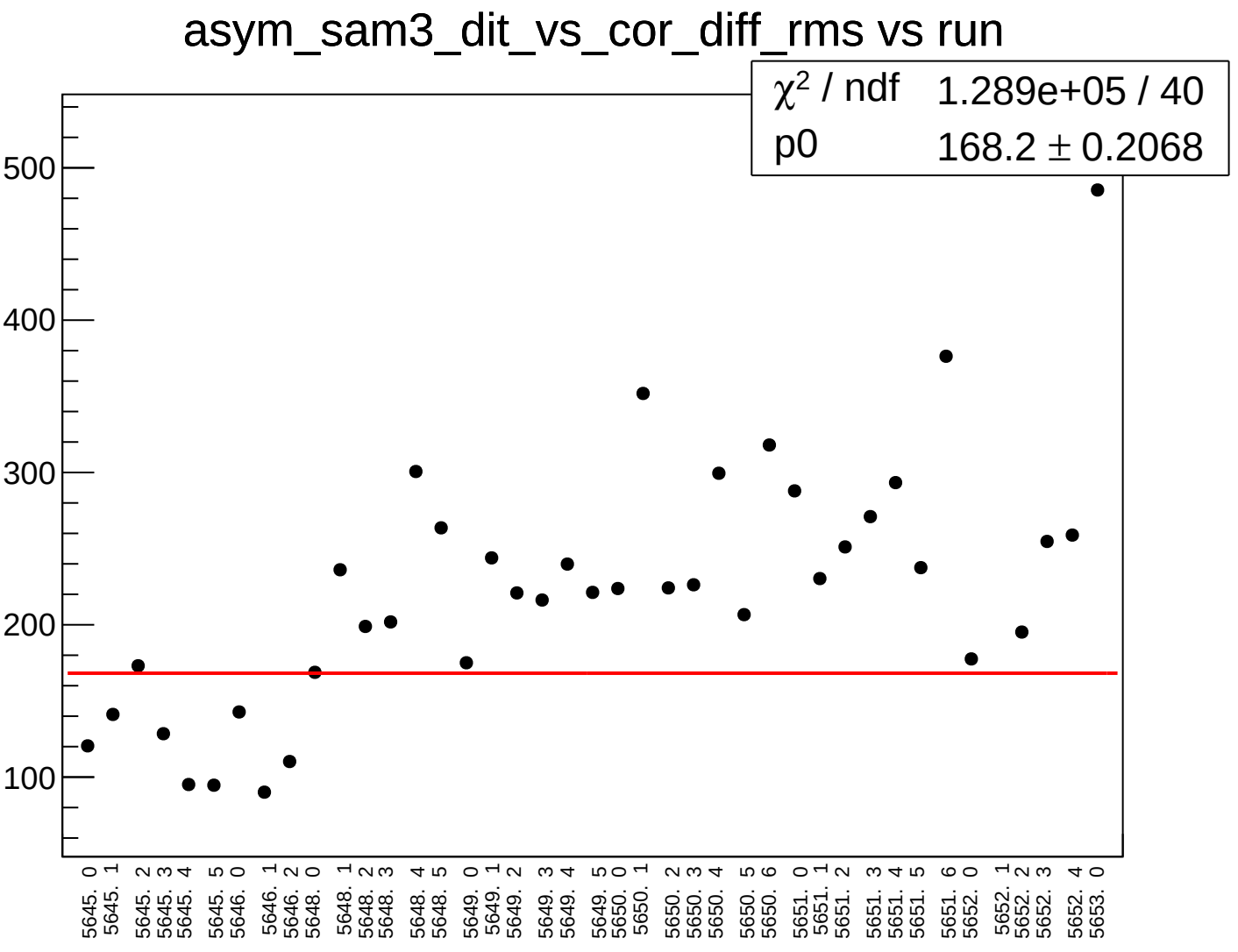

asym_sam3_rms vs run
χ² / ndf 7031 / 40
p0 1982 ± 2.239
2600
2400
2200
2000
1800
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

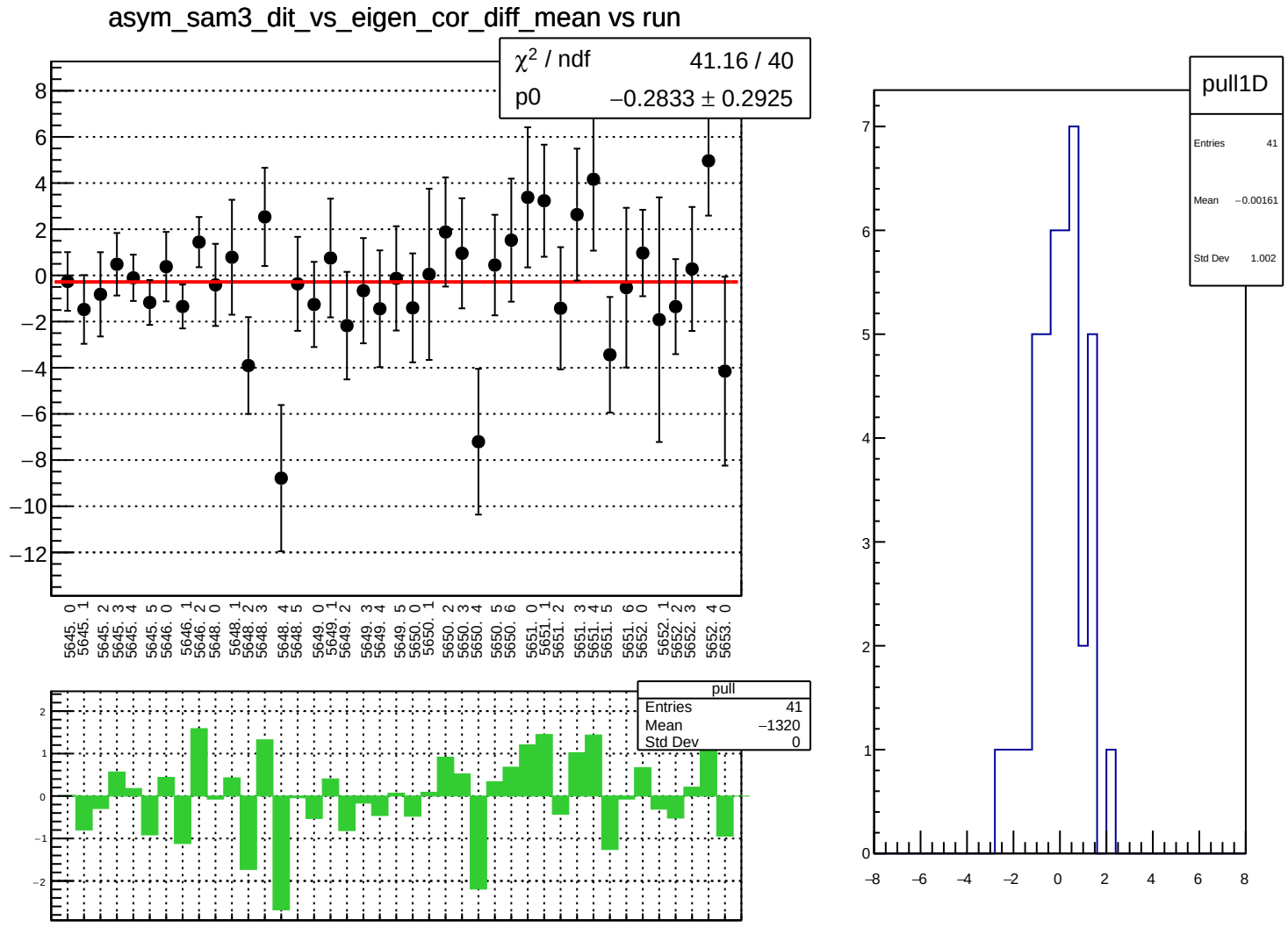

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 28.16 / 40
p0 3.604e−13 ± 2.765e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.82
Std Dev 5.992
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.1215
Std Dev 0.8198
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

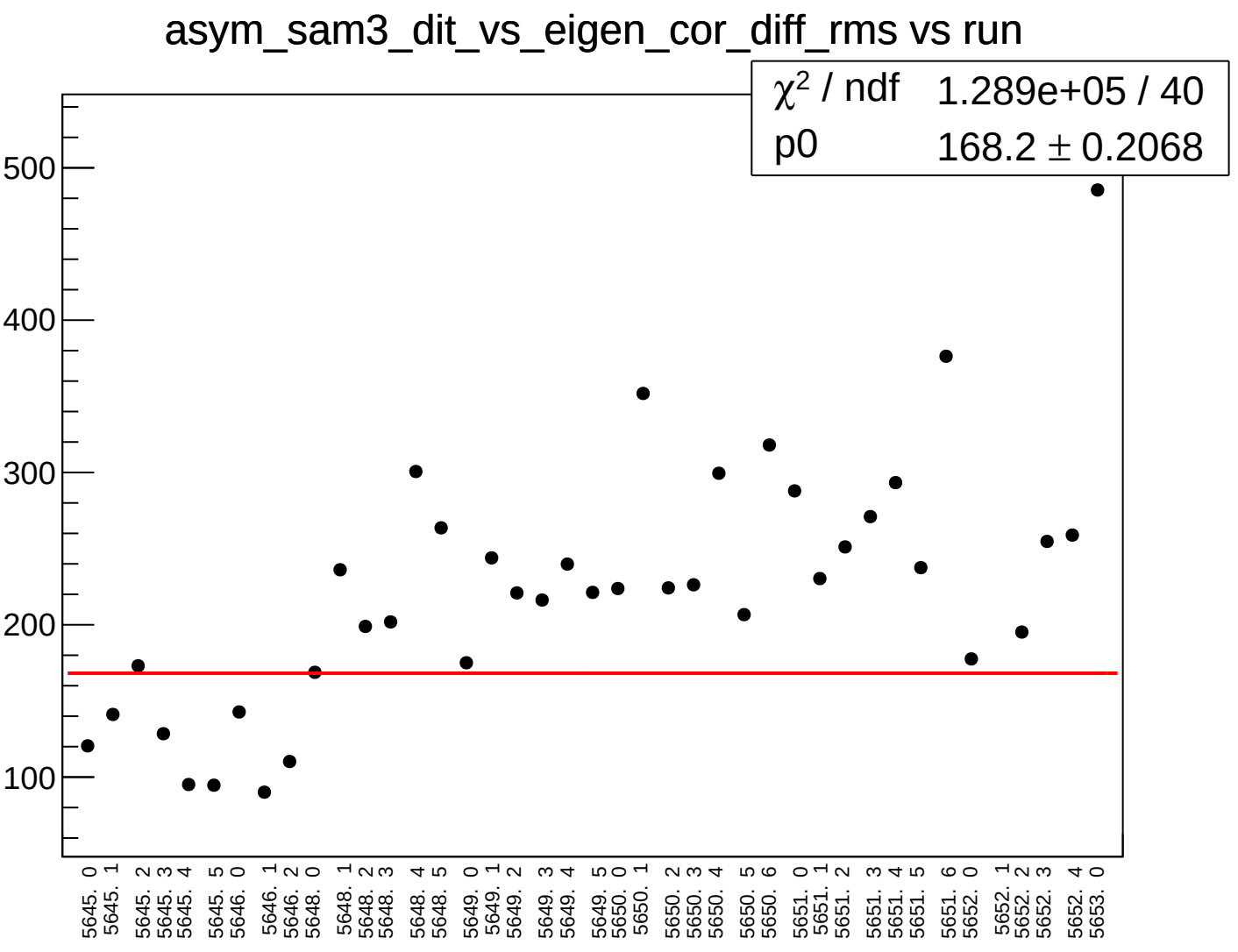

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 3.976e+05 / 40
p0 1.225e−10 ± 1.955e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

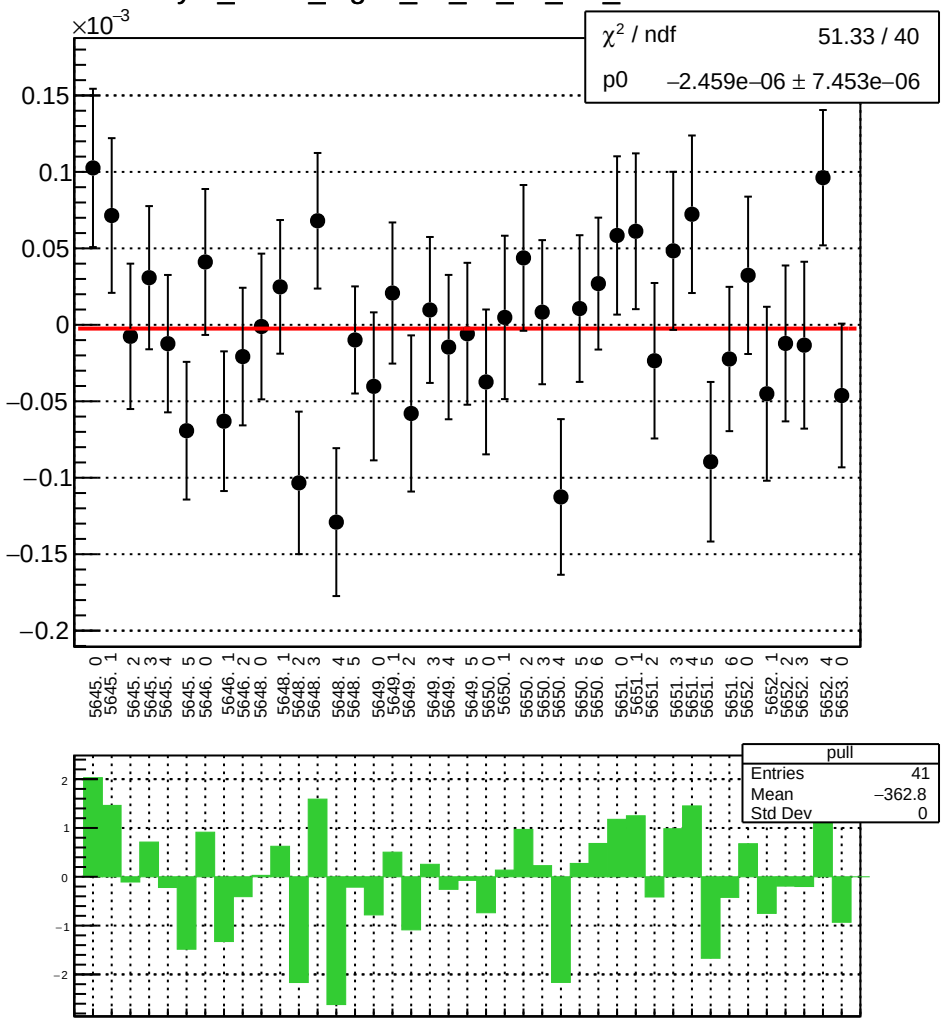

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 41.16 / 40
p0 −0.2833 ± 0.2925
pull
Entries 41
Mean −1320
Std Dev 0

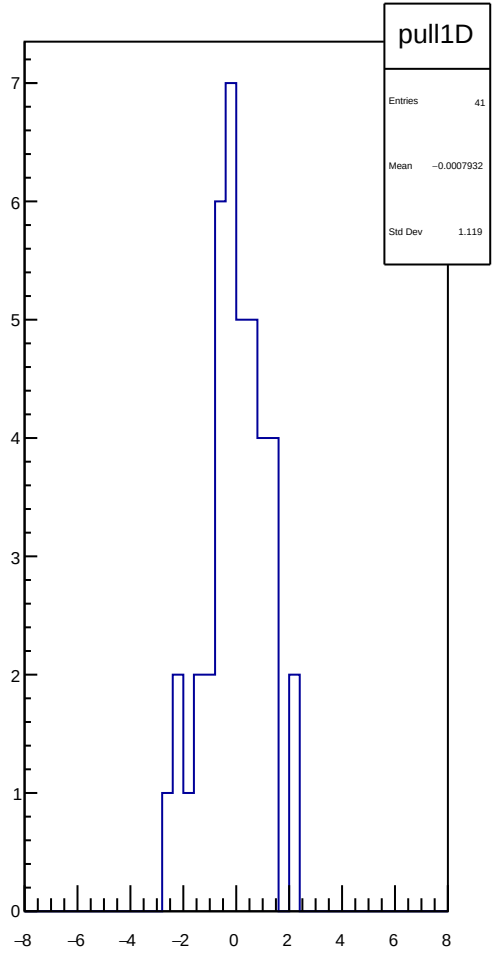

pull1D
Entries 41
Mean −0.00161
Std Dev 1.002

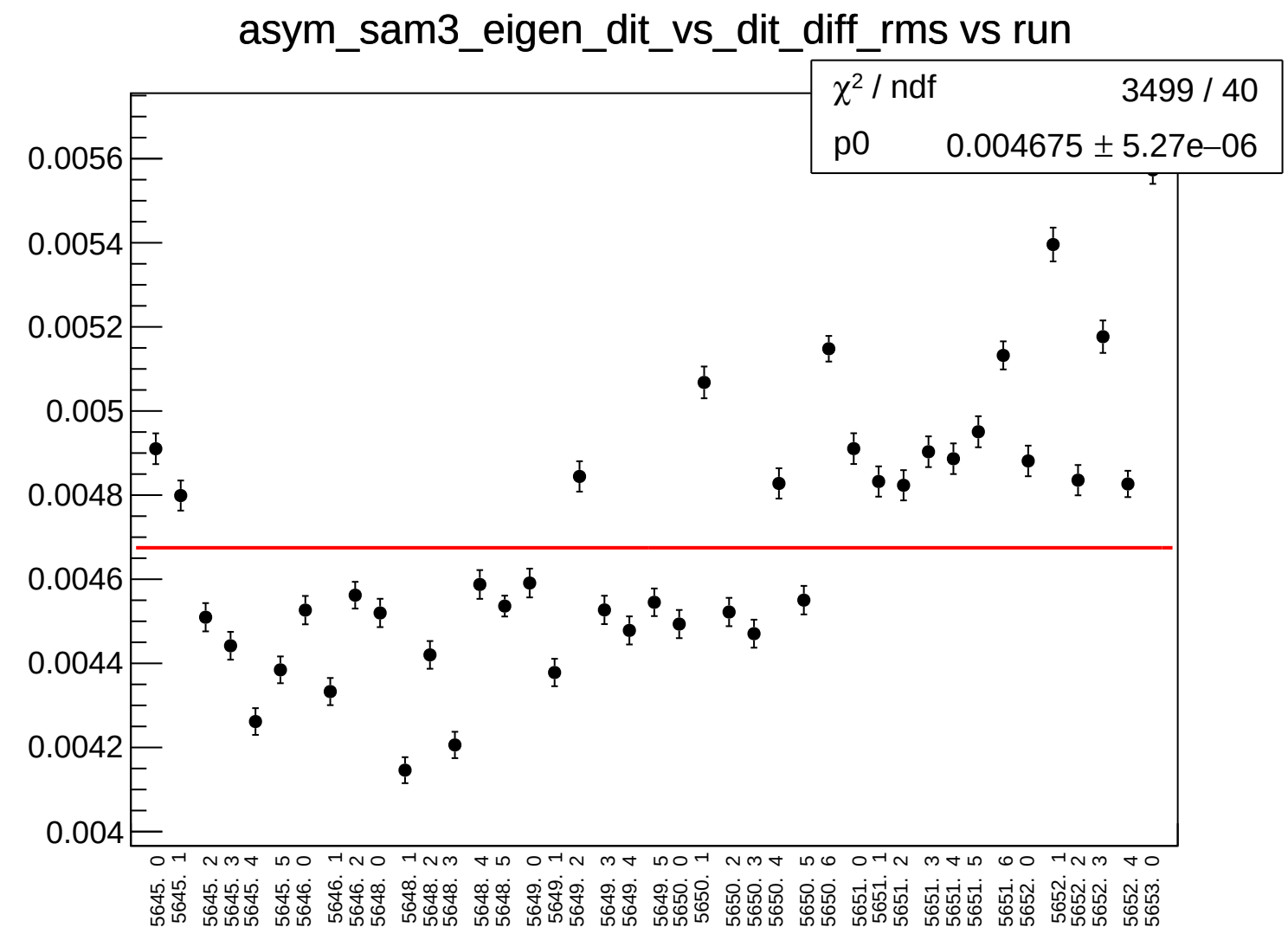

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+05 / 40
p0 168.2 ± 0.2068
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

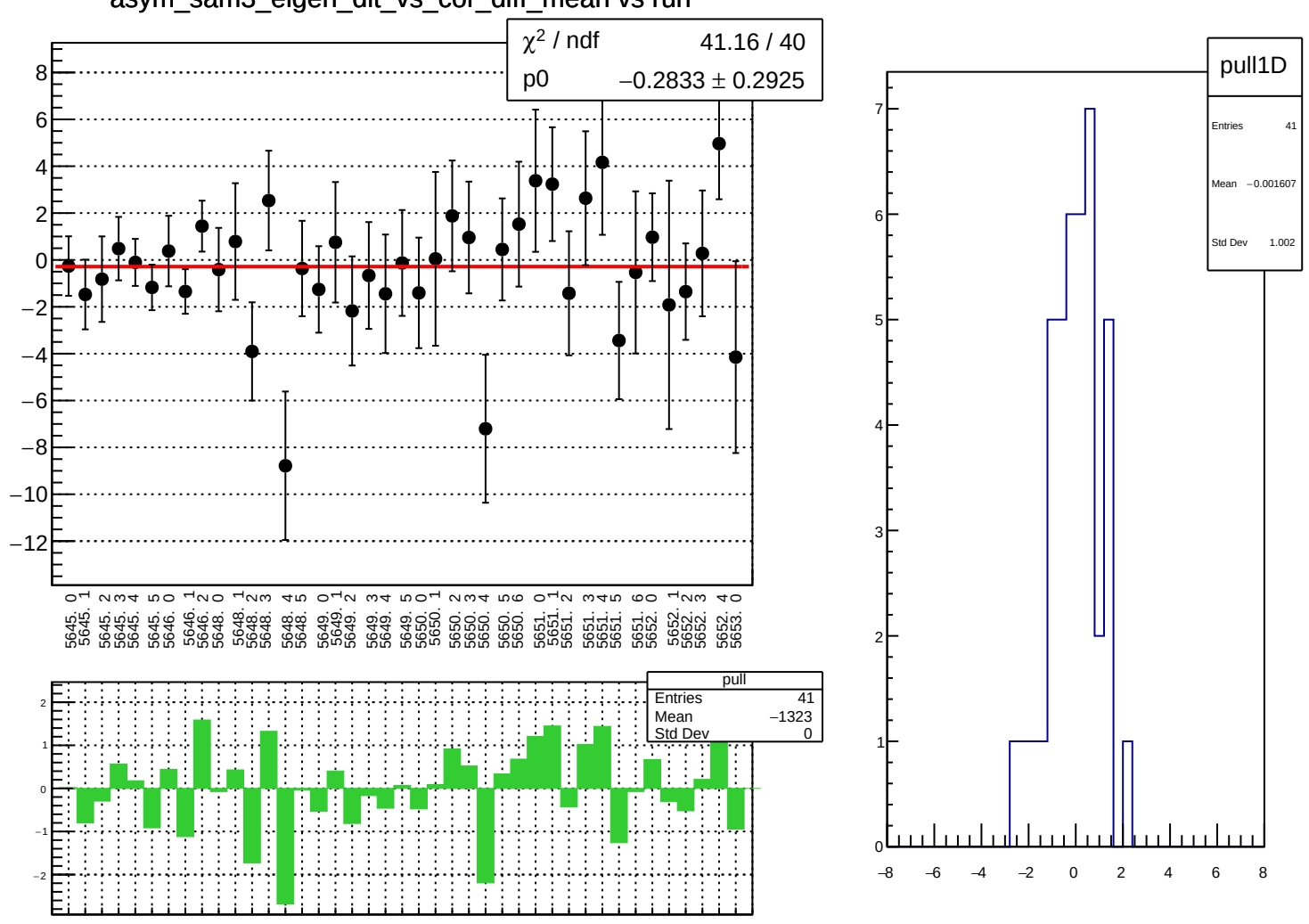

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.16 / 40
p0 −0.2833 ± 0.2925
pull
Entries 41
Mean −1320
Std Dev 0
pull1D
Entries 41
Mean −0.00161
Std Dev 1.002

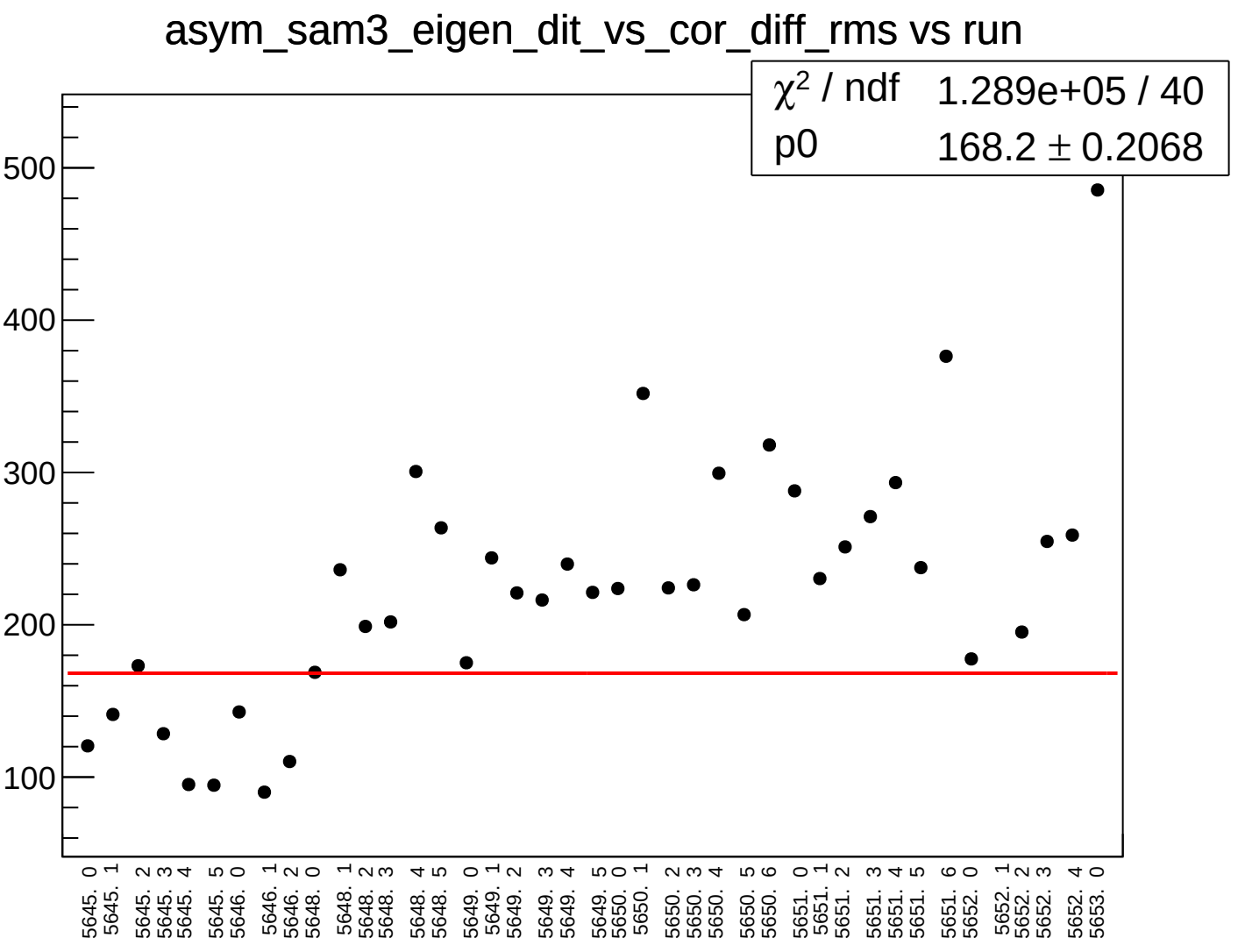

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+05 / 40
p0 168.2 ± 0.2068
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

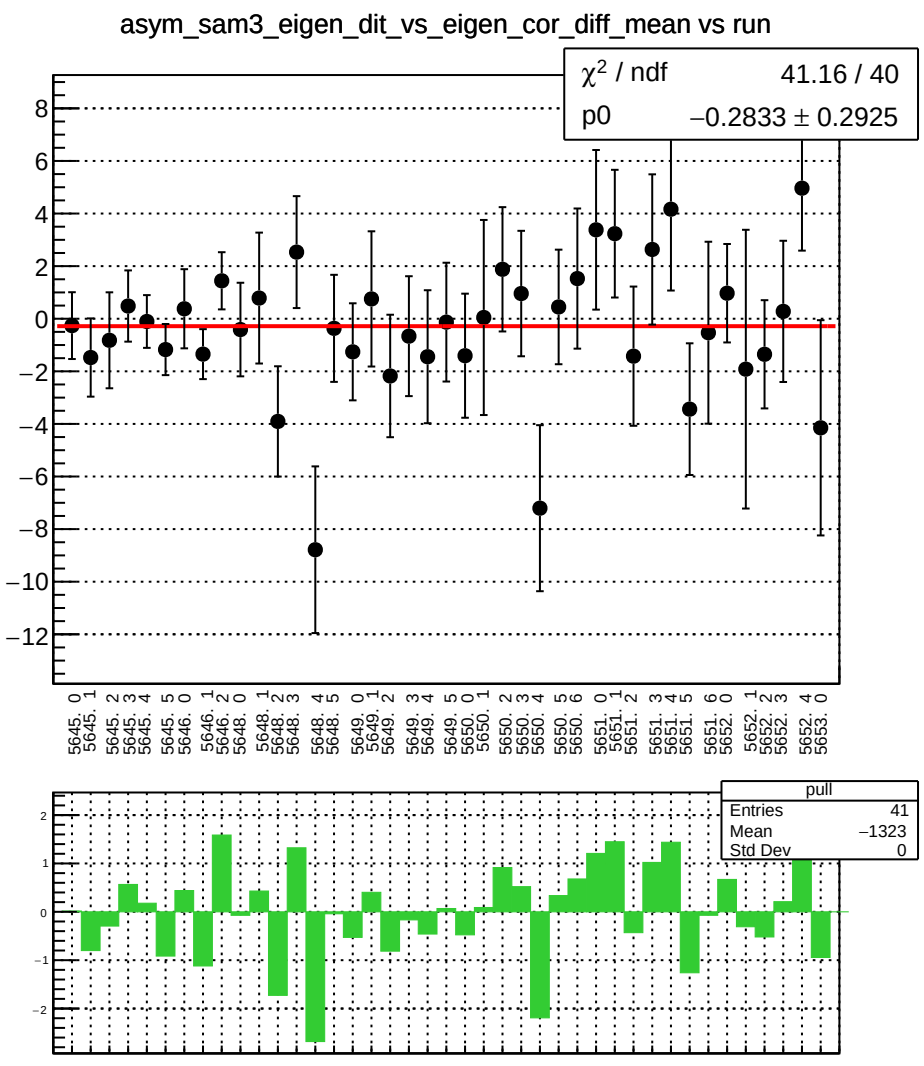

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.33 / 40
p0 −2.459e−06 ± 7.453e−06
pull
Entries 41
Mean −362.8
Std Dev 0

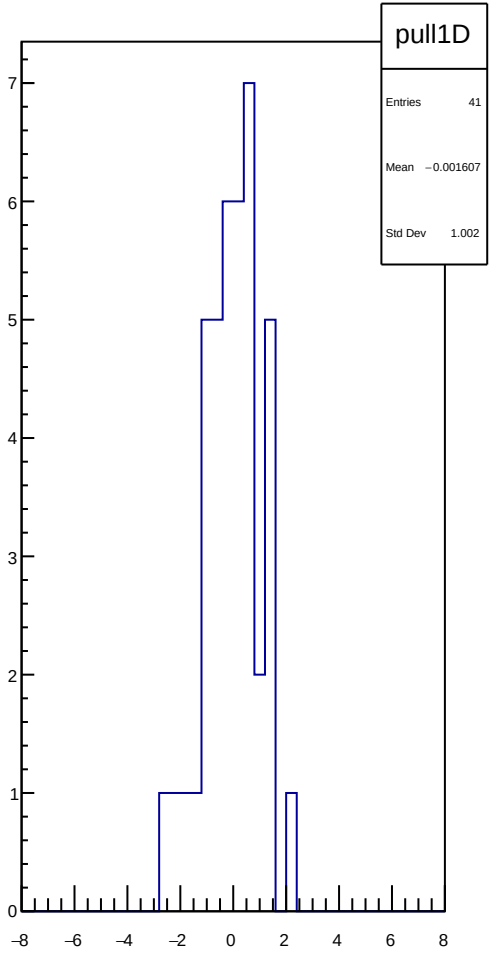

pull1D
Entries 41
Mean −0.0007932
Std Dev 1.119

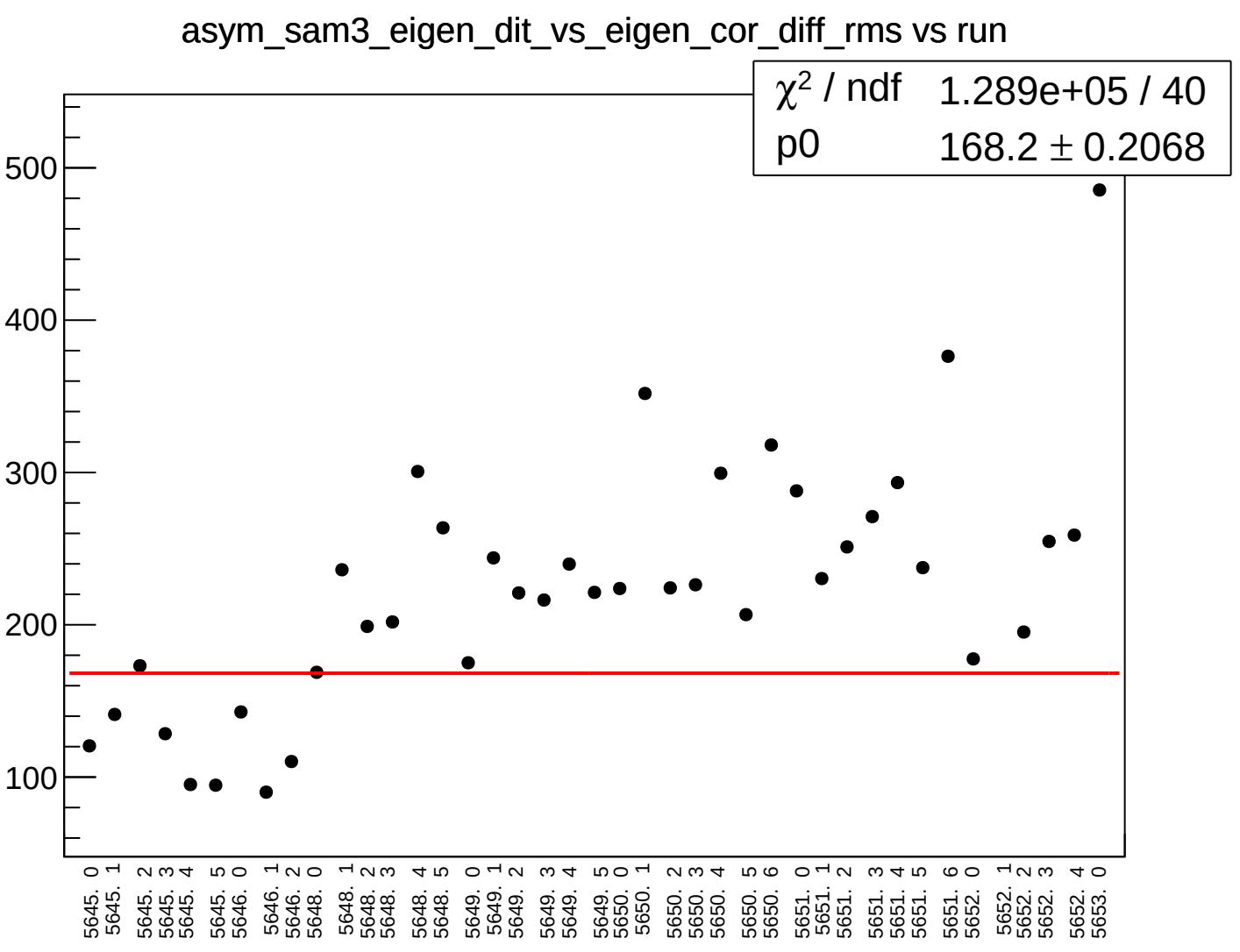

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3499 / 40
p0 0.004675 ± 5.27e–06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

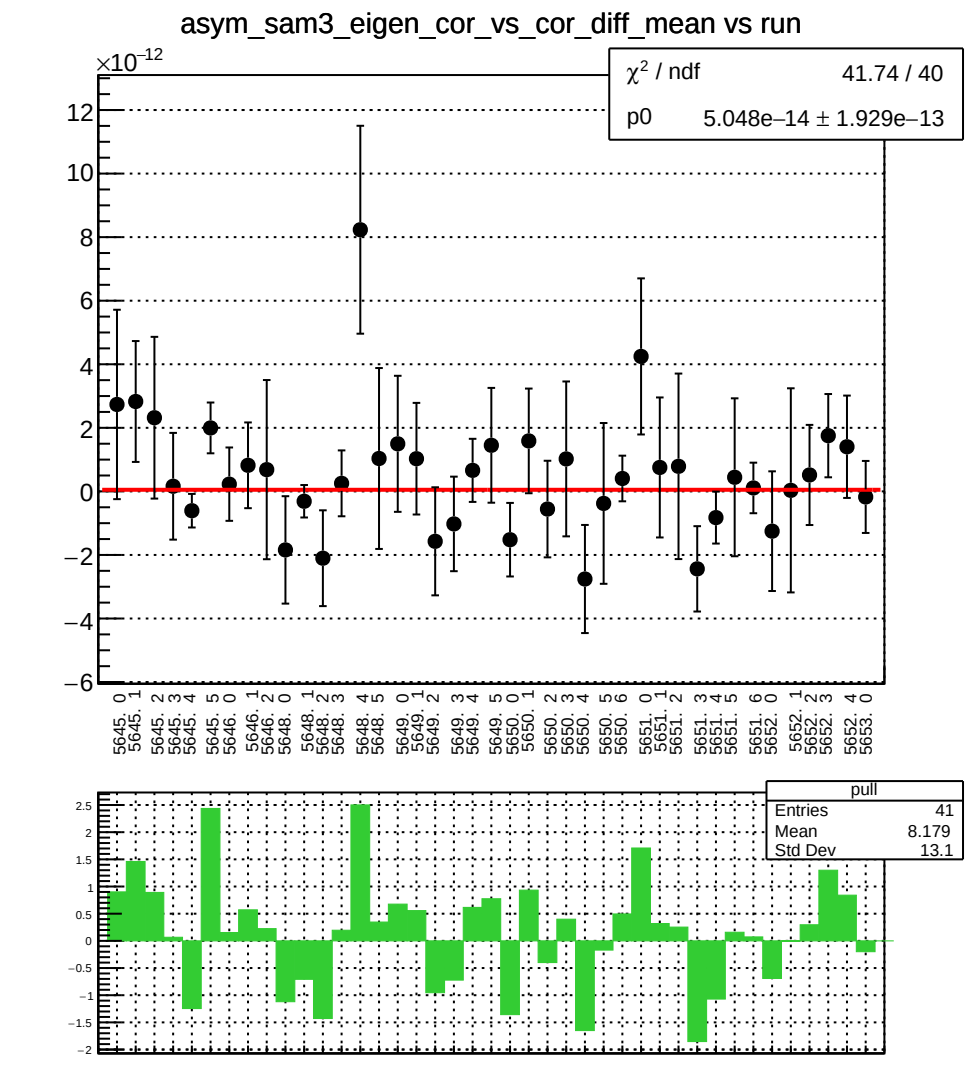

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.16 / 40
p0 −0.2833 ± 0.2925
pull
Entries 41
Mean −1323
Std Dev 0
pull1D
Entries 41
Mean −0.001607
Std Dev 1.002

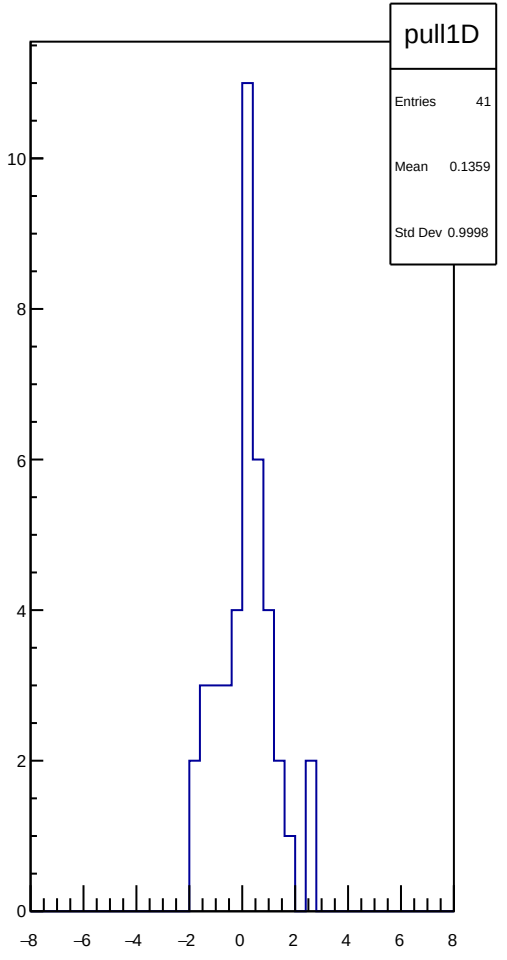

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.289e+05 / 40
p0 168.2 ± 0.2068
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

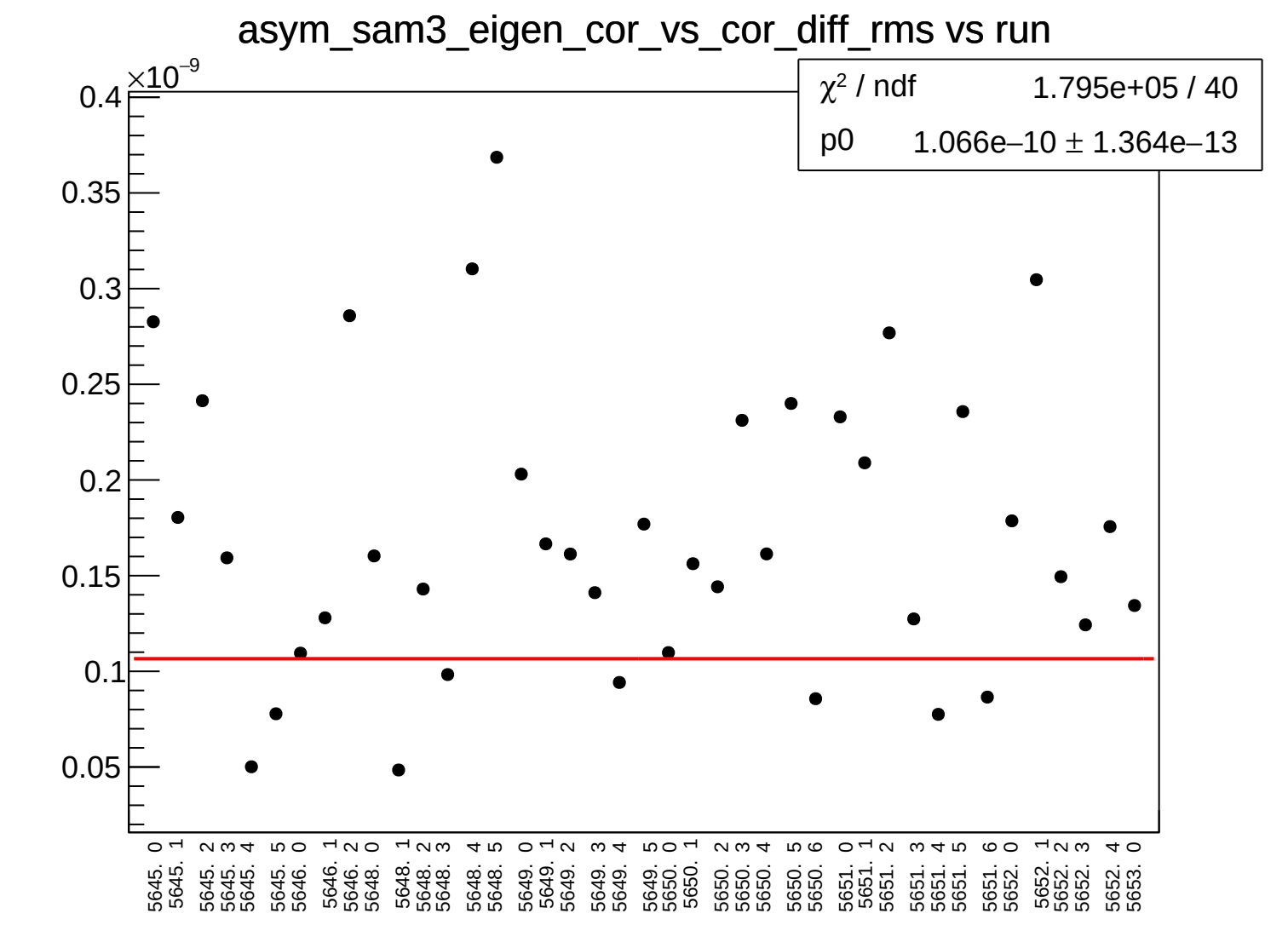

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.16 / 40
p0 −0.2833 ± 0.2925
pull
Entries 41
Mean −1323
Std Dev 0

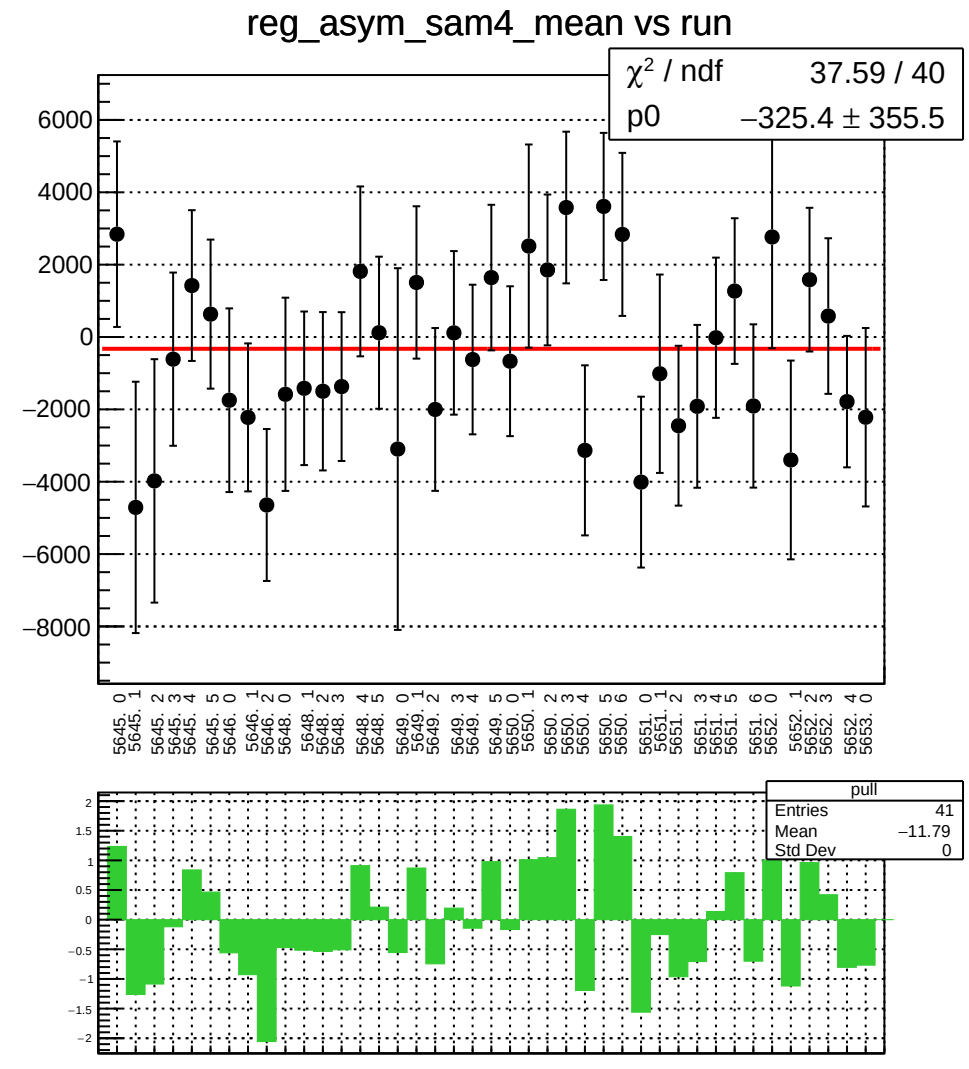

pull1D
Entries 41
Mean −0.001607
Std Dev 1.002

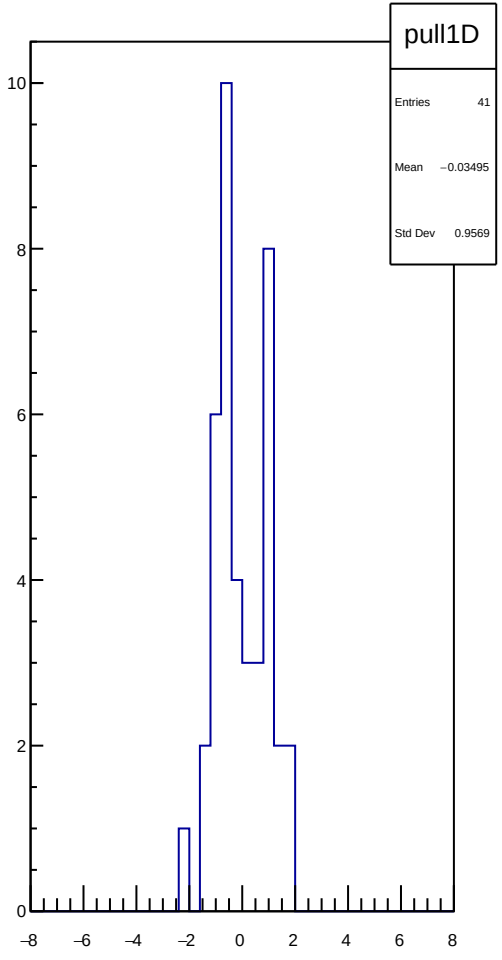

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.289e+05 / 40
p0 168.2 ± 0.2068
500
400
300
200
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

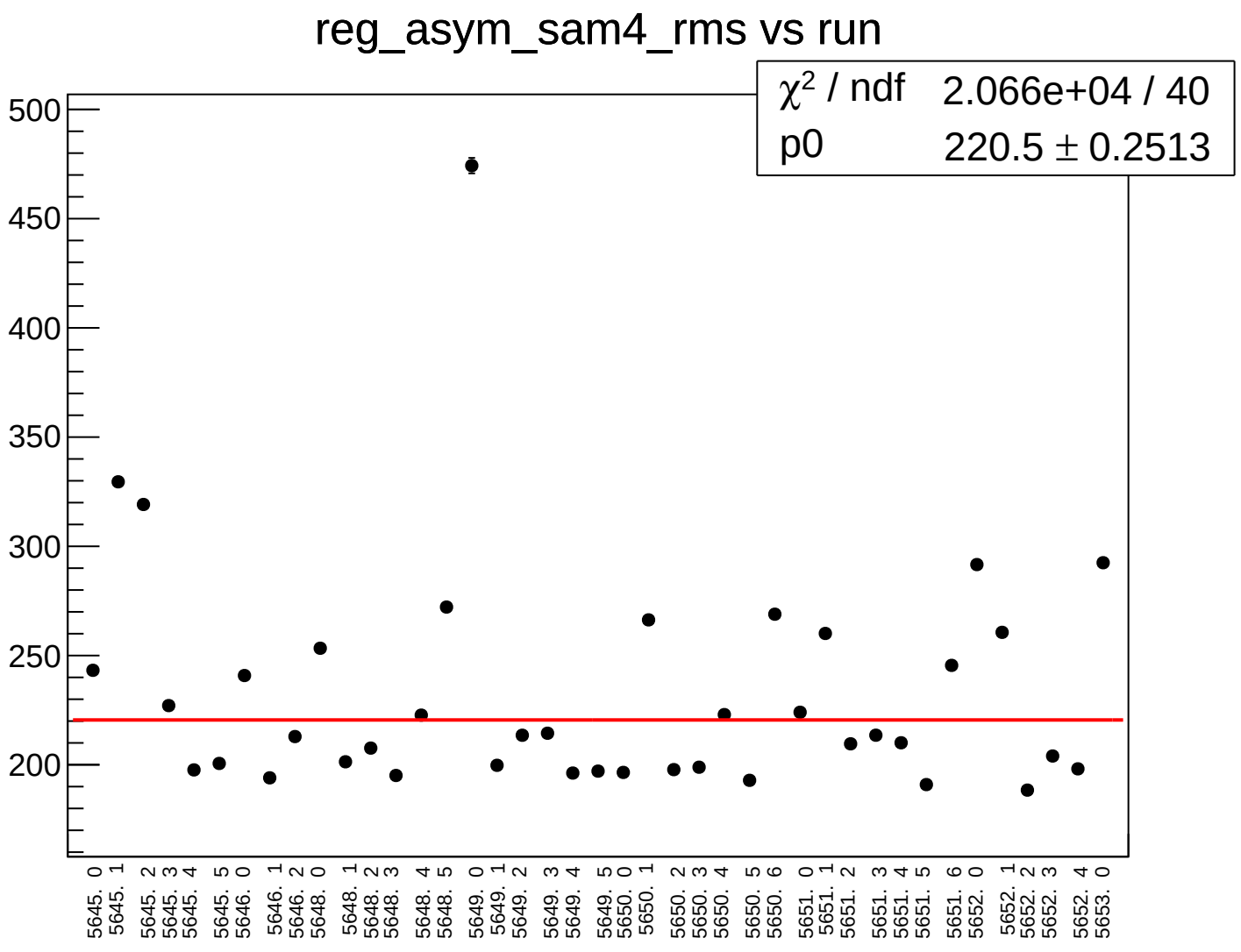

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.74 / 40
p0 5.048e−14 ± 1.929e−13
pull
Entries 41
Mean 8.179
Std Dev 13.1

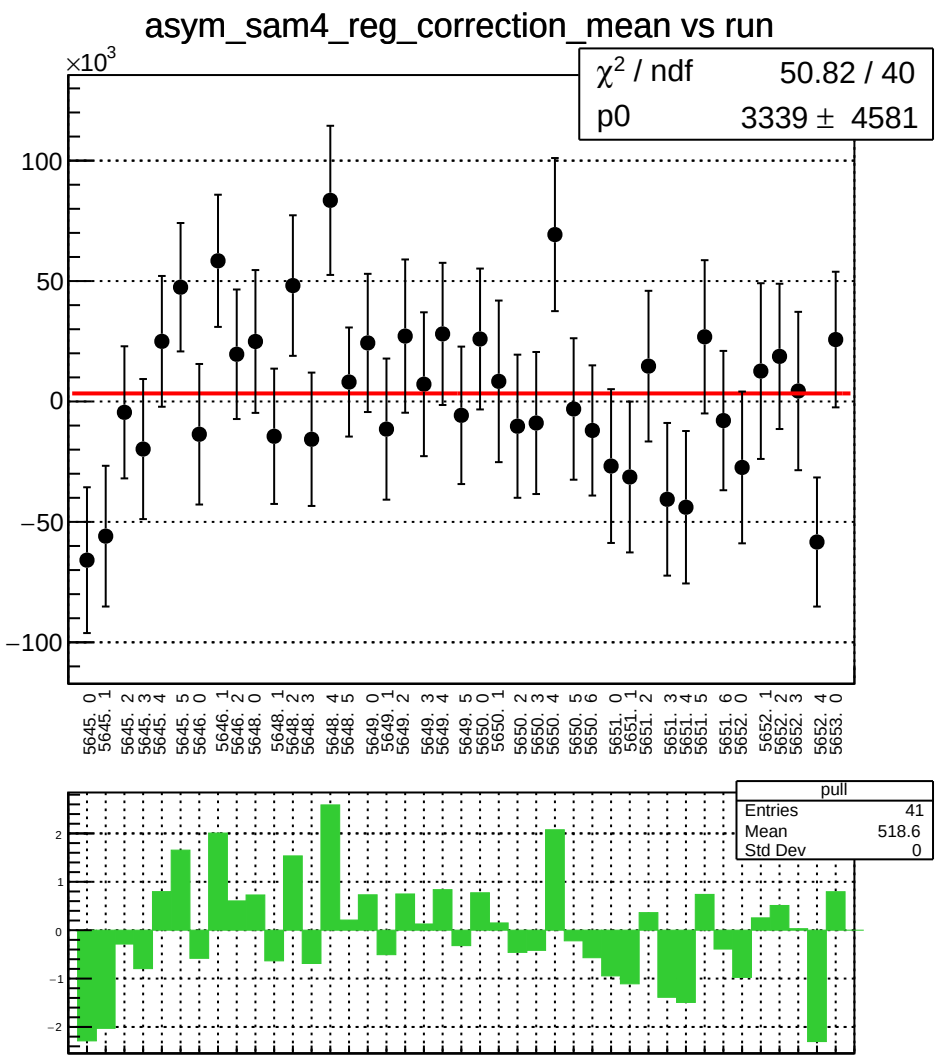

pull1D
Entries 41
Mean 0.1359
Std Dev 0.9998

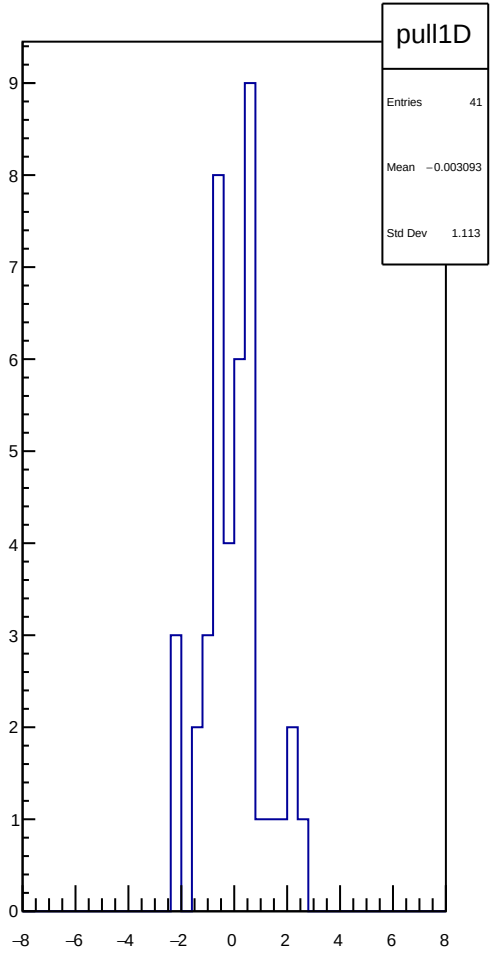

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.795e+05 / 40
p0 1.066e−10 ± 1.364e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

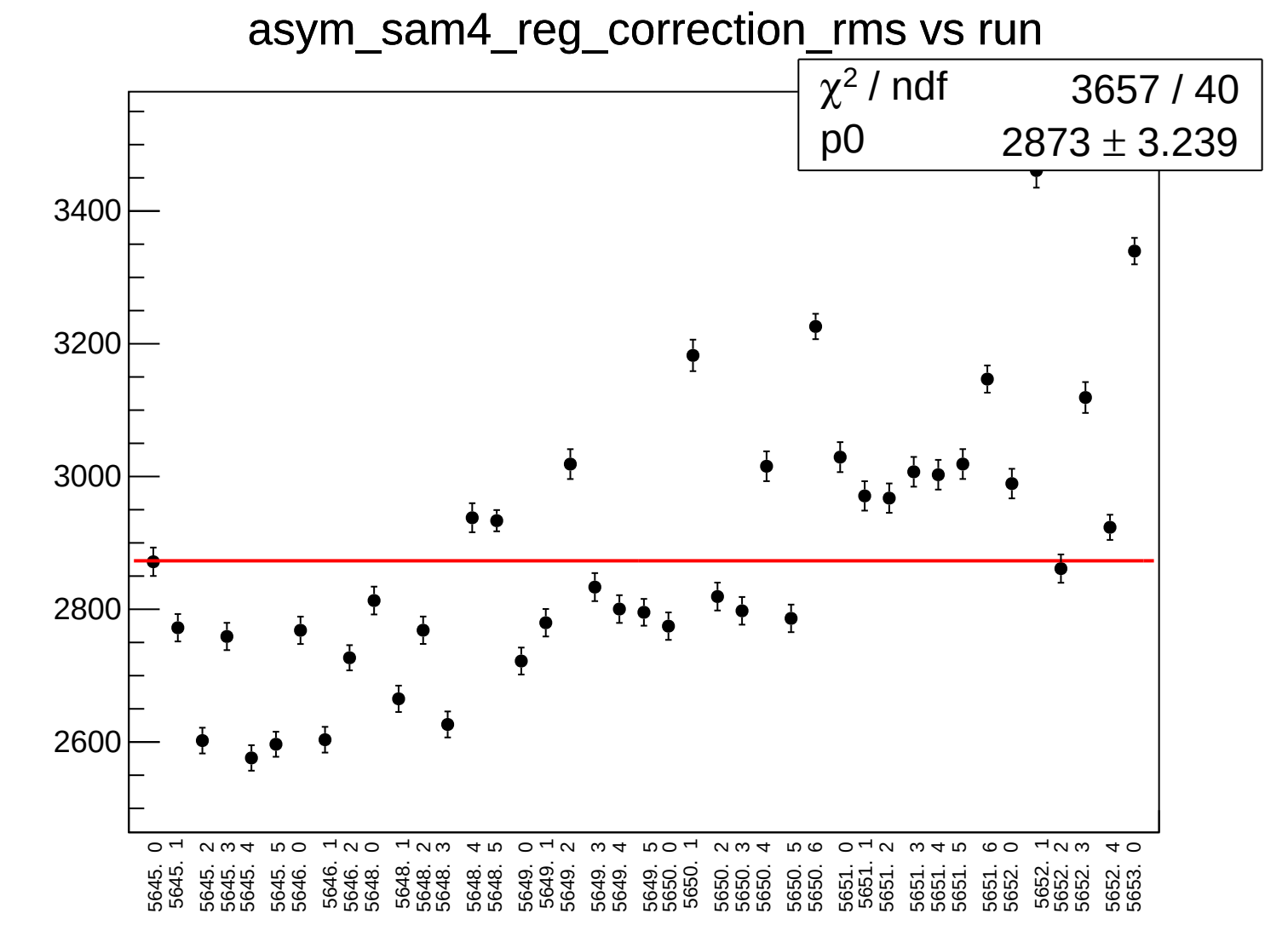

reg_asym_sam4_mean vs run
χ² / ndf 37.59 / 40
p0 −325.4 ± 355.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

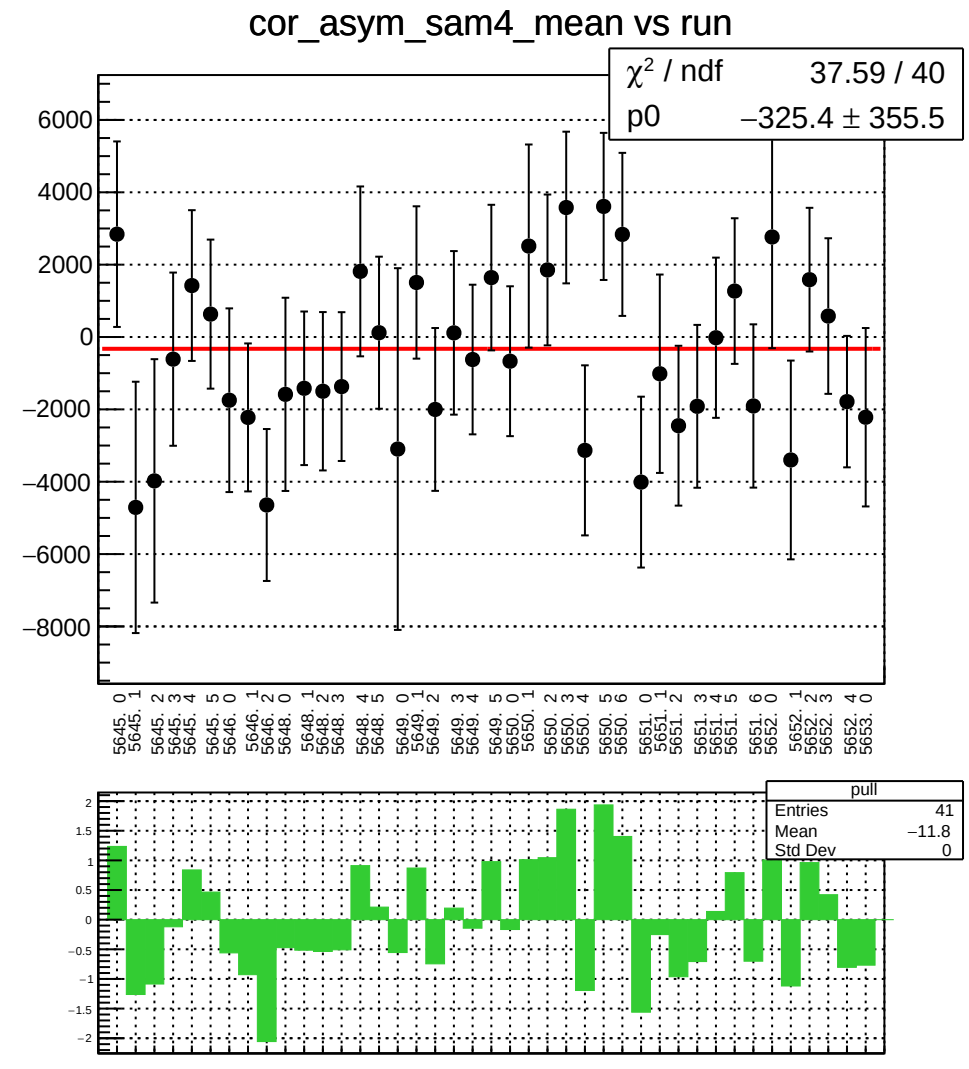

pull1D
Entries 41
Mean −0.03495
Std Dev 0.9569
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

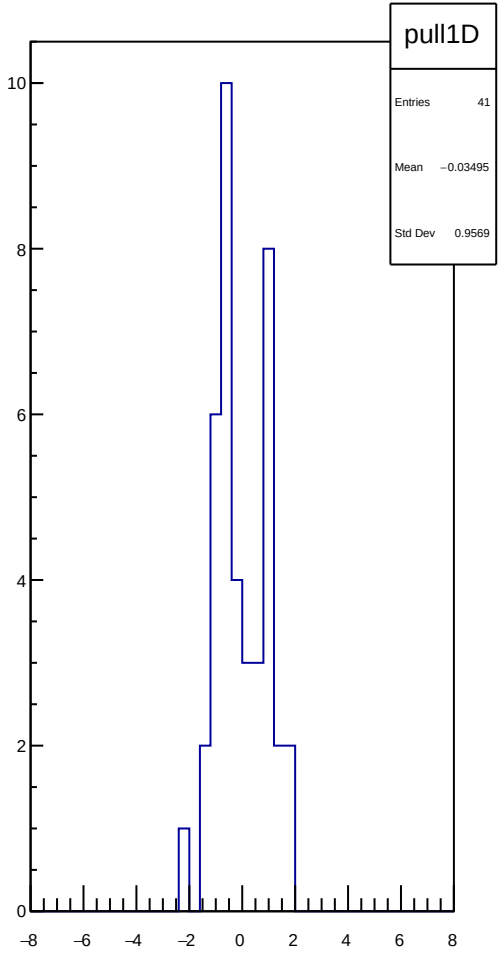

reg_asym_sam4_rms vs run
χ² / ndf 2.066e+04 / 40
p0 220.5 ± 0.2513
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

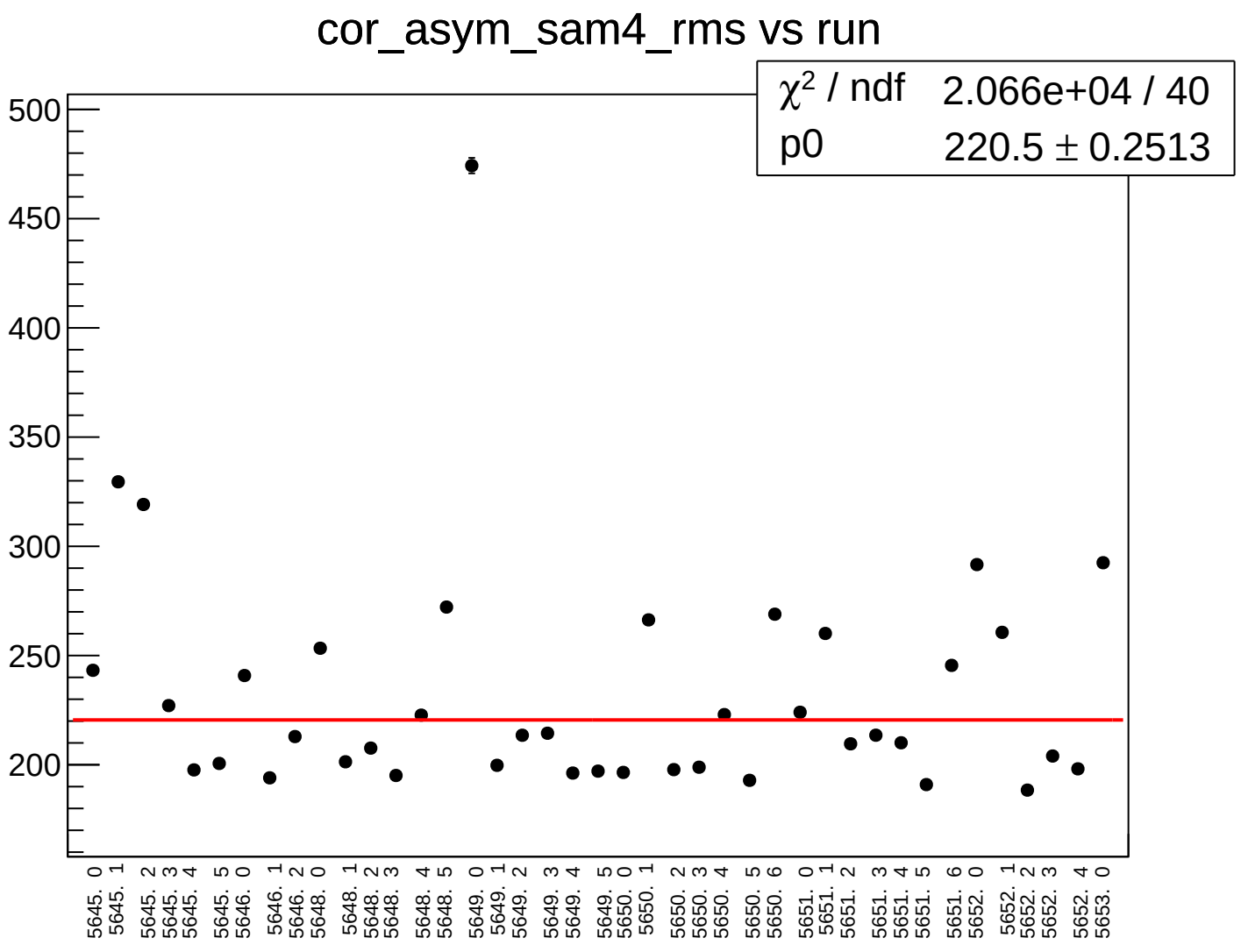

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 50.82 / 40
p0 3339 ± 4581
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 518.6
Std Dev 0
2
1
0
−1
−2

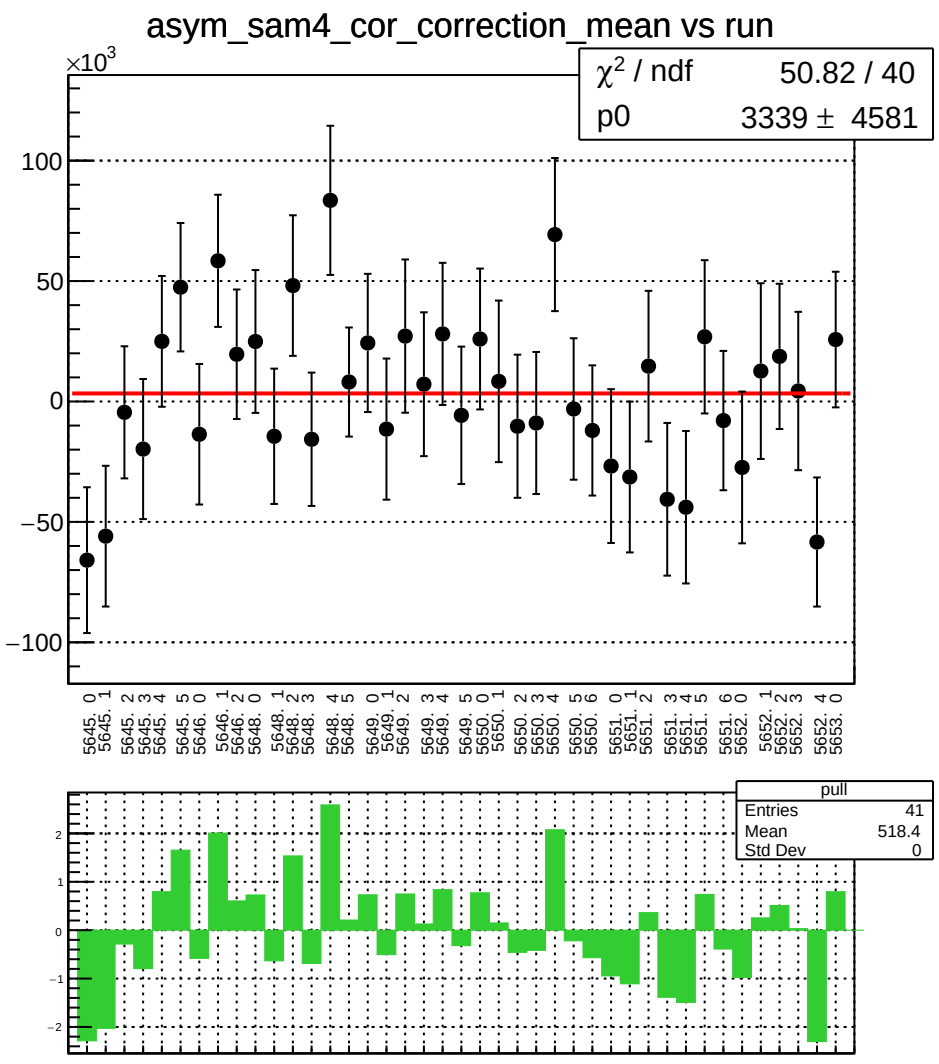

pull1D
Entries 41
Mean −0.003093
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

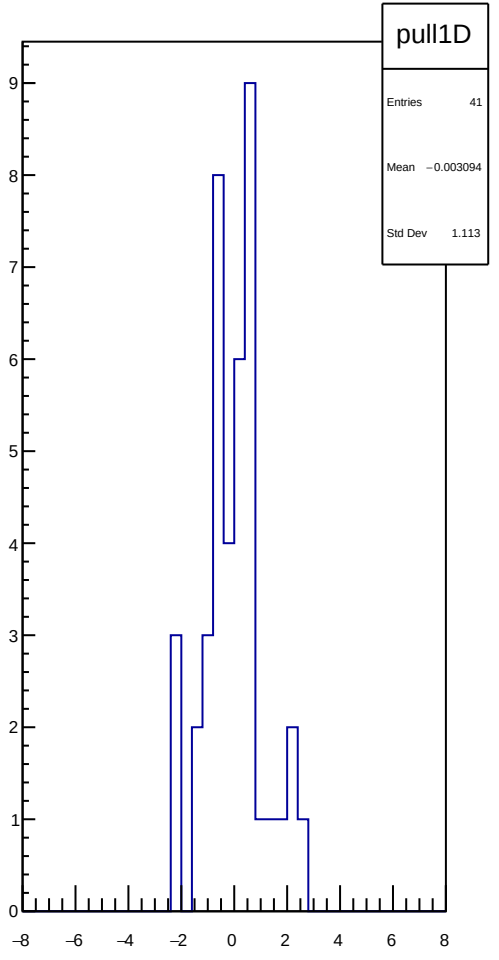

asym_sam4_reg_correction_rms vs run
χ² / ndf 3657 / 40
p0 2873 ± 3.239
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

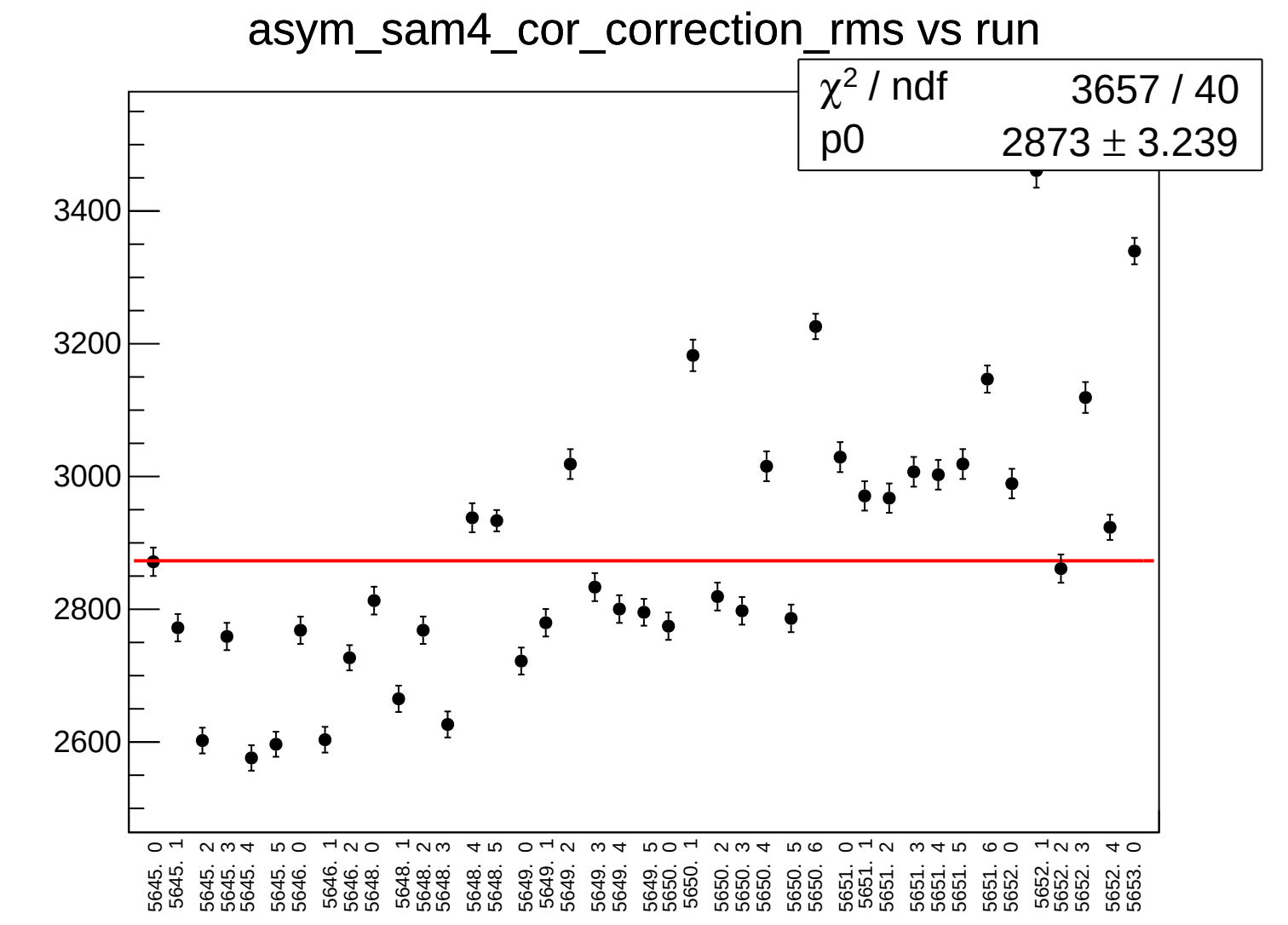

cor_asym_sam4_mean vs run
χ² / ndf 37.59 / 40
p0 −325.4 ± 355.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

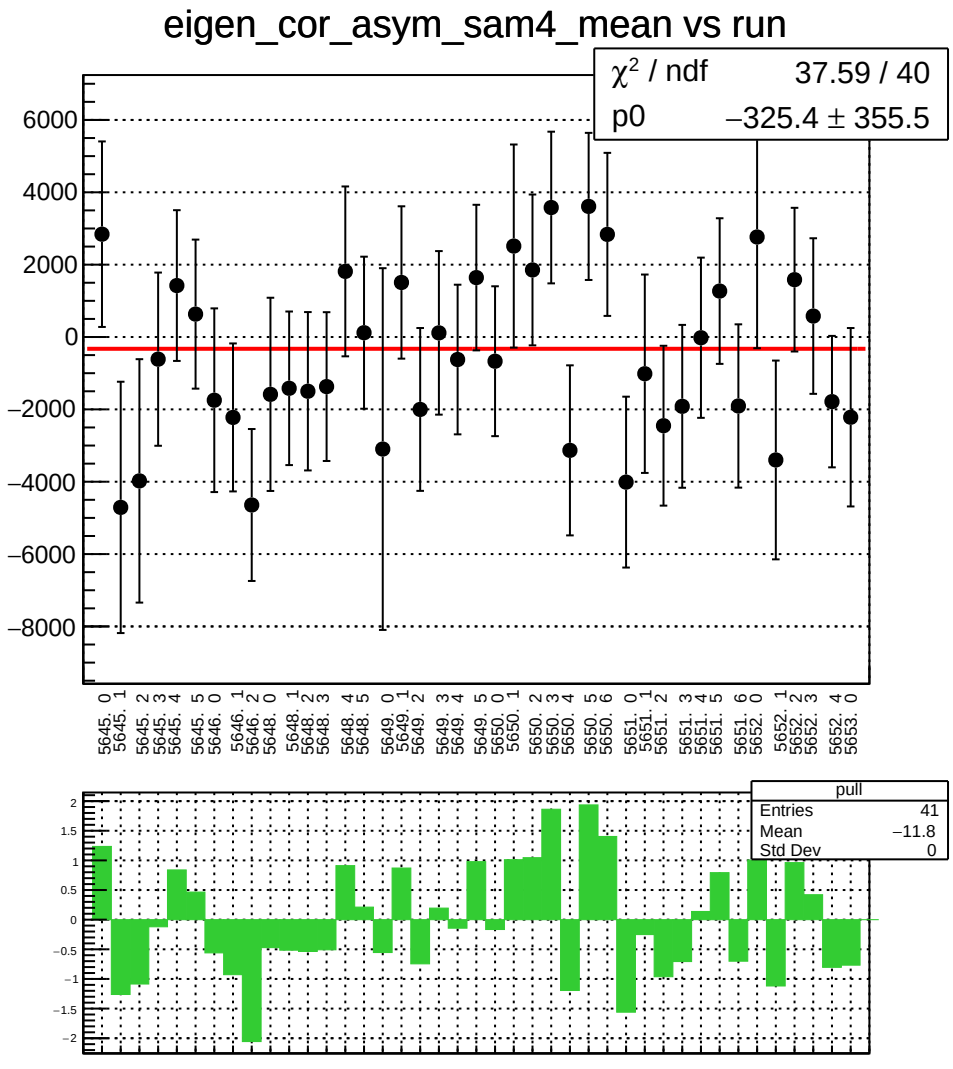

pull1D
Entries 41
Mean −0.03495
Std Dev 0.9569
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

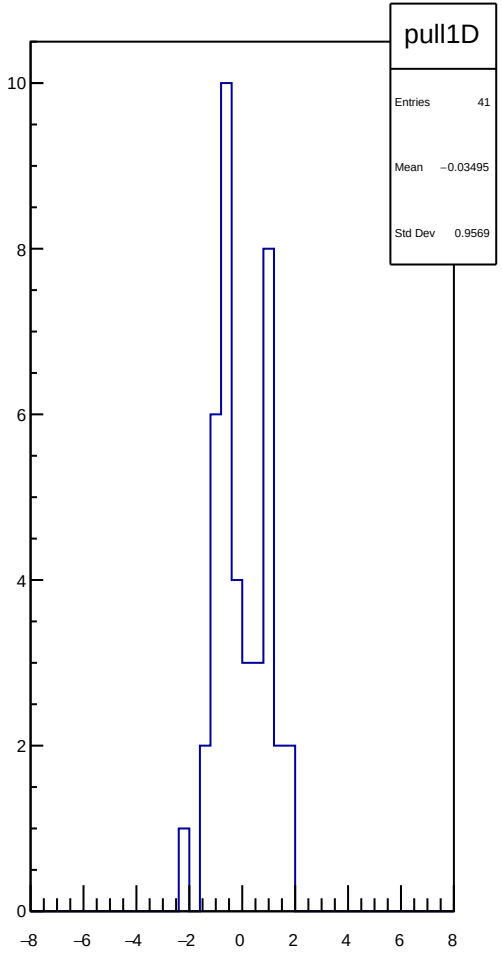

cor_asym_sam4_rms vs run
χ² / ndf 2.066e+04 / 40
p0 220.5 ± 0.2513
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

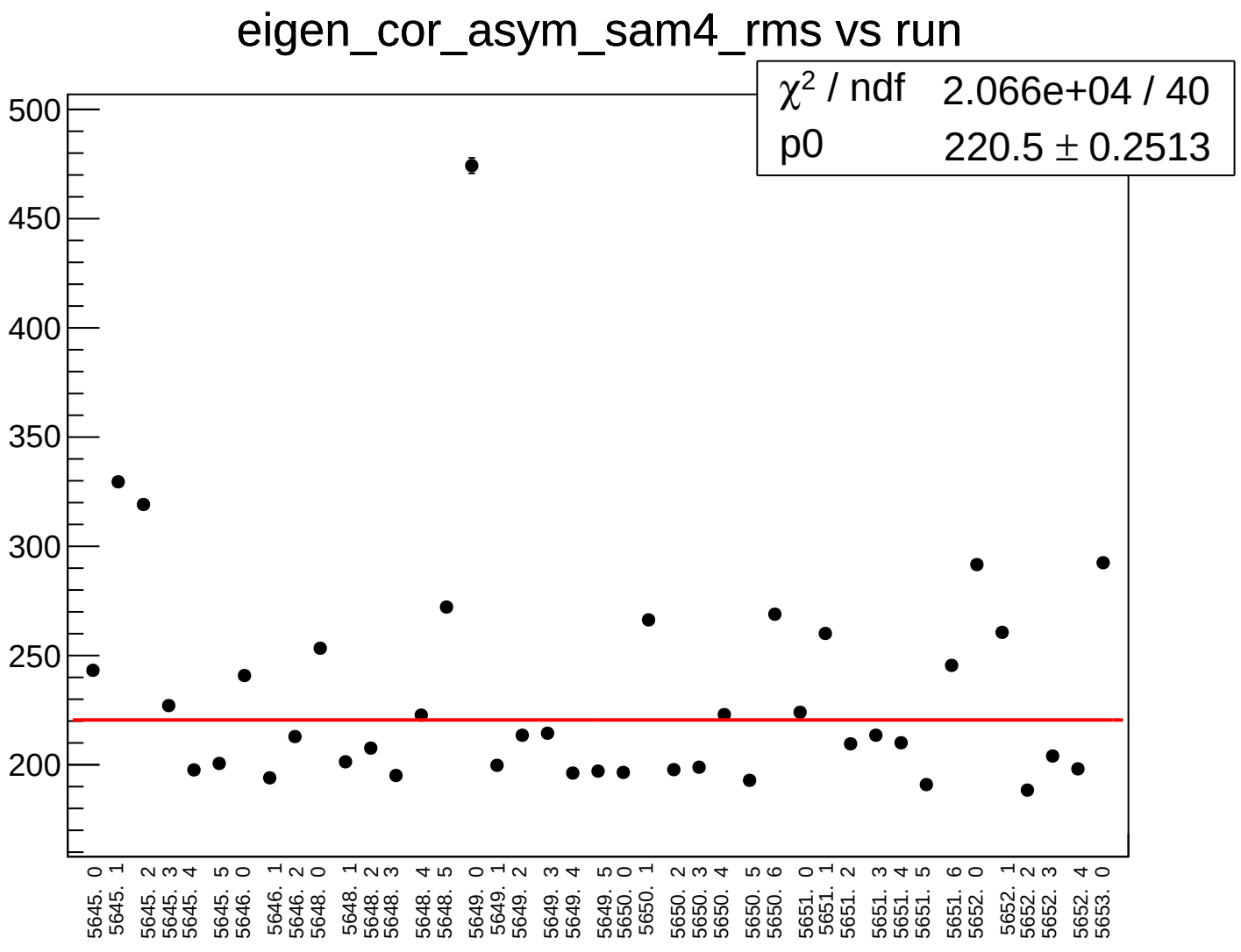

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 50.82 / 40
p0 3339 ± 4581
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 518.4
Std Dev 0
2
1
0
−1
−2

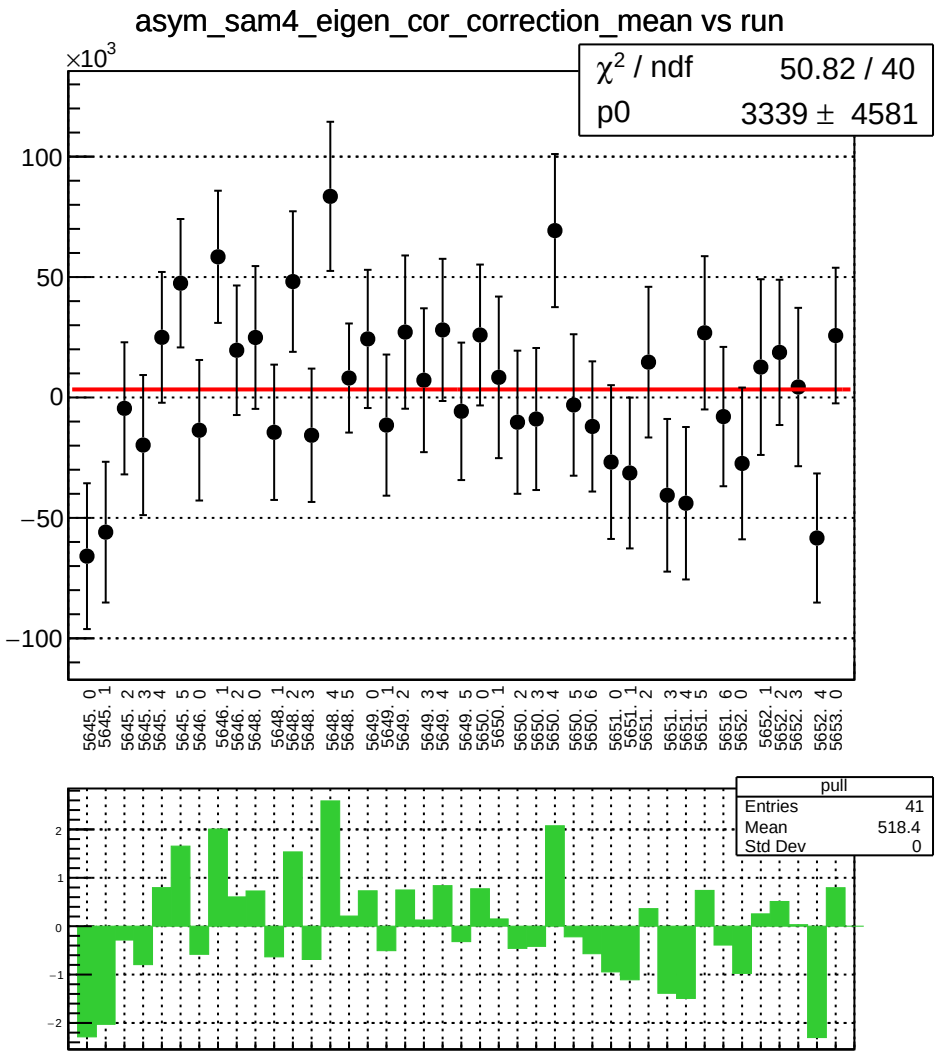

pull1D
Entries 41
Mean −0.003094
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

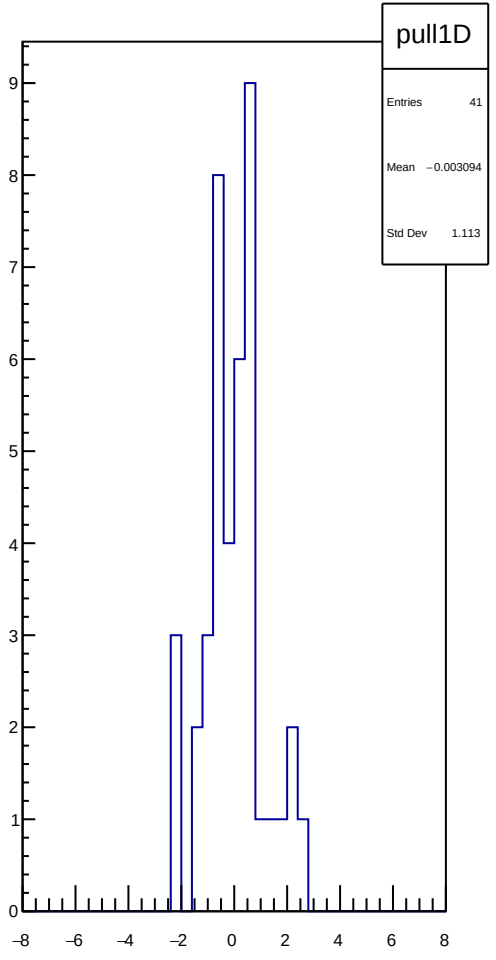

asym_sam4_cor_correction_rms vs run
χ² / ndf 3657 / 40
p0 2873 ± 3.239
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

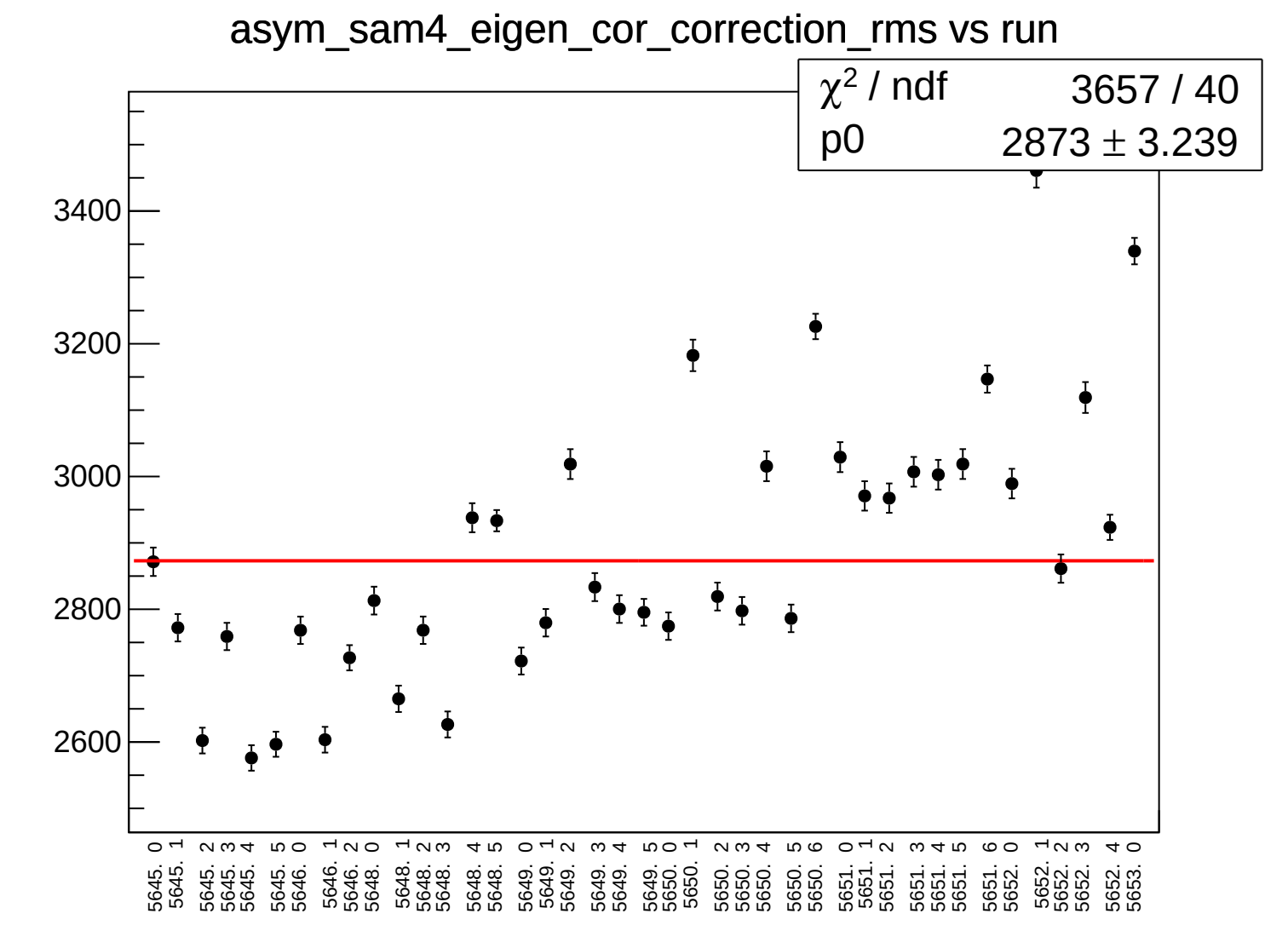

eigen_cor_asym_sam4_mean vs run
χ² / ndf 37.59 / 40
p0 −325.4 ± 355.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

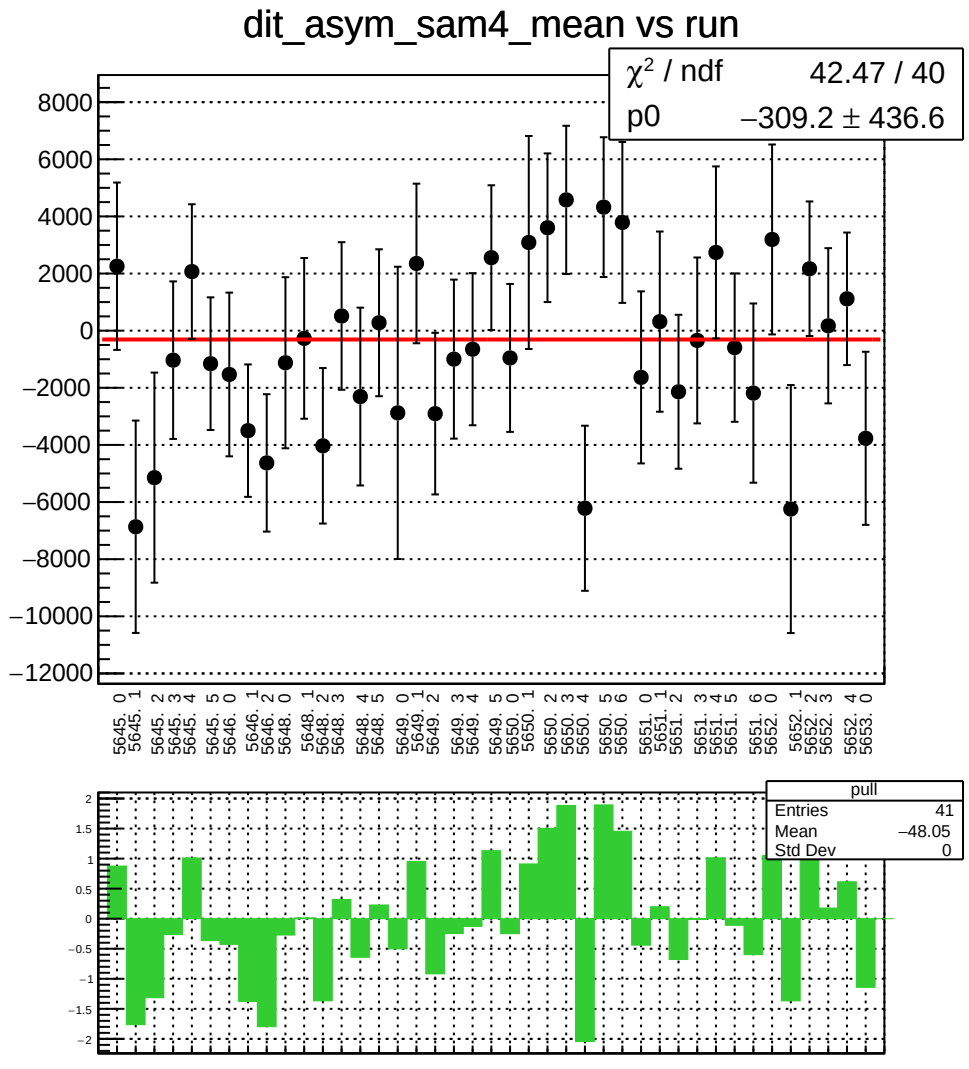

pull1D
Entries 41
Mean −0.03495
Std Dev 0.9569
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

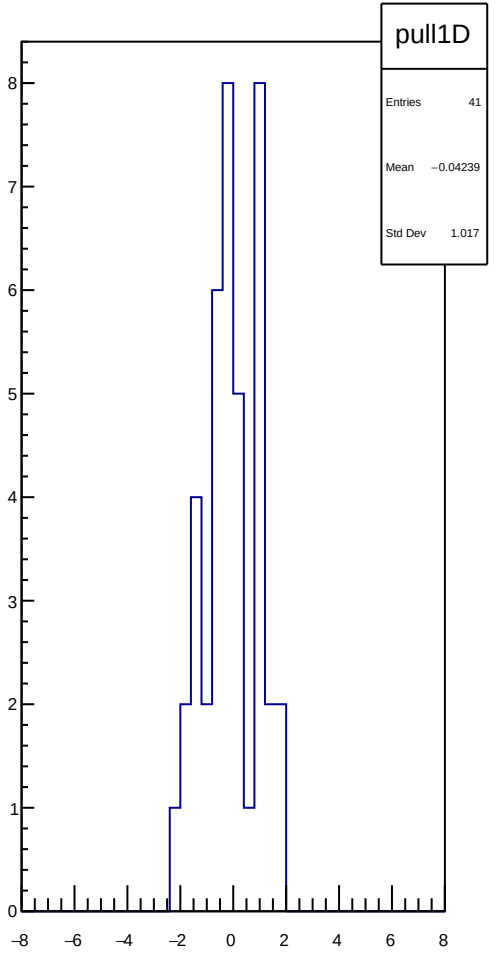

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2.066e+04 / 40
p0 220.5 ± 0.2513
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

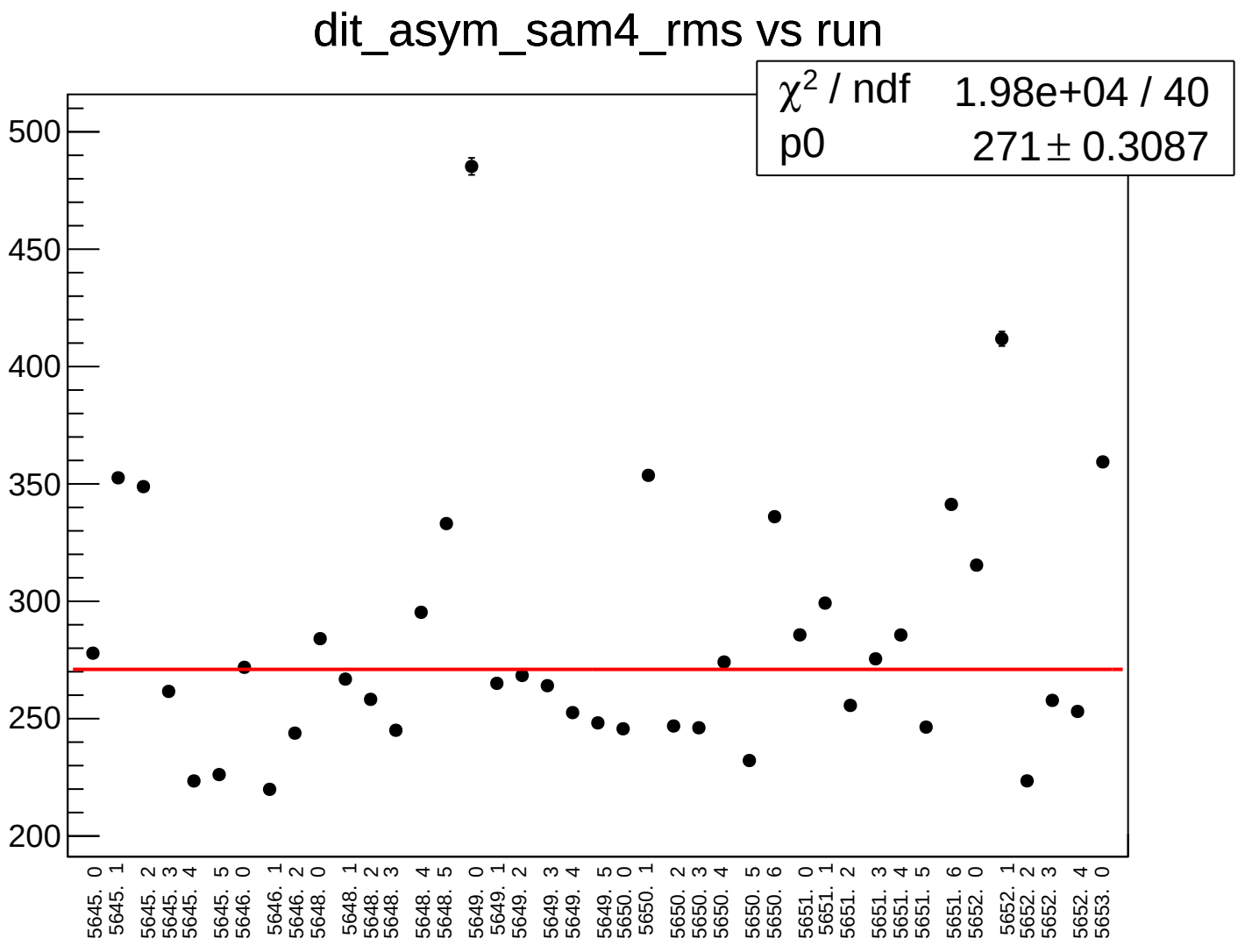

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.82 / 40
p0 3339 ± 4581
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 518.4
Std Dev 0
2
1
0
−1
−2

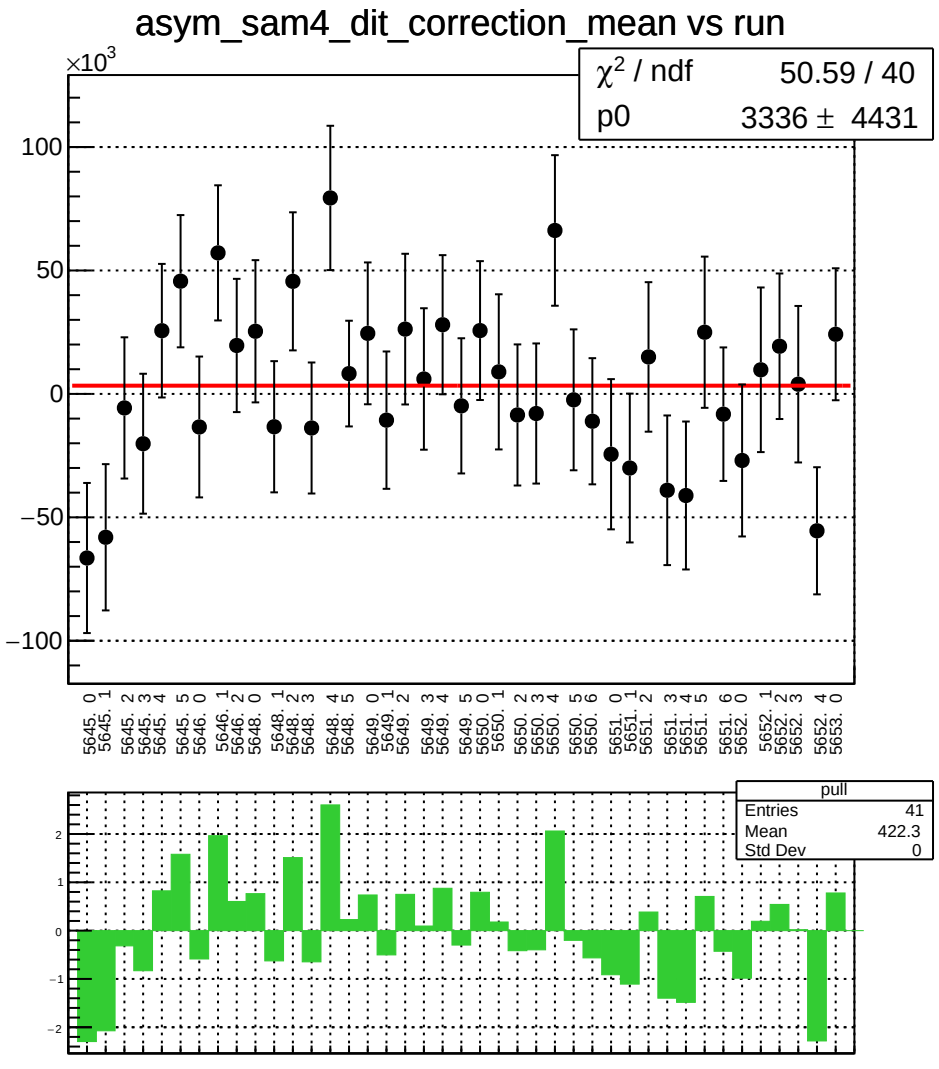

pull1D
Entries 41
Mean −0.003094
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

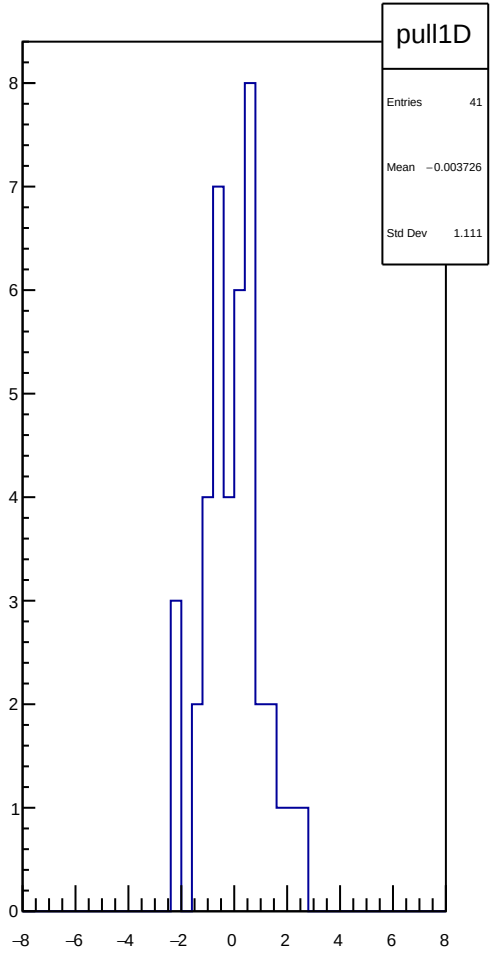

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 3657 / 40
p0 2873 ± 3.239
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

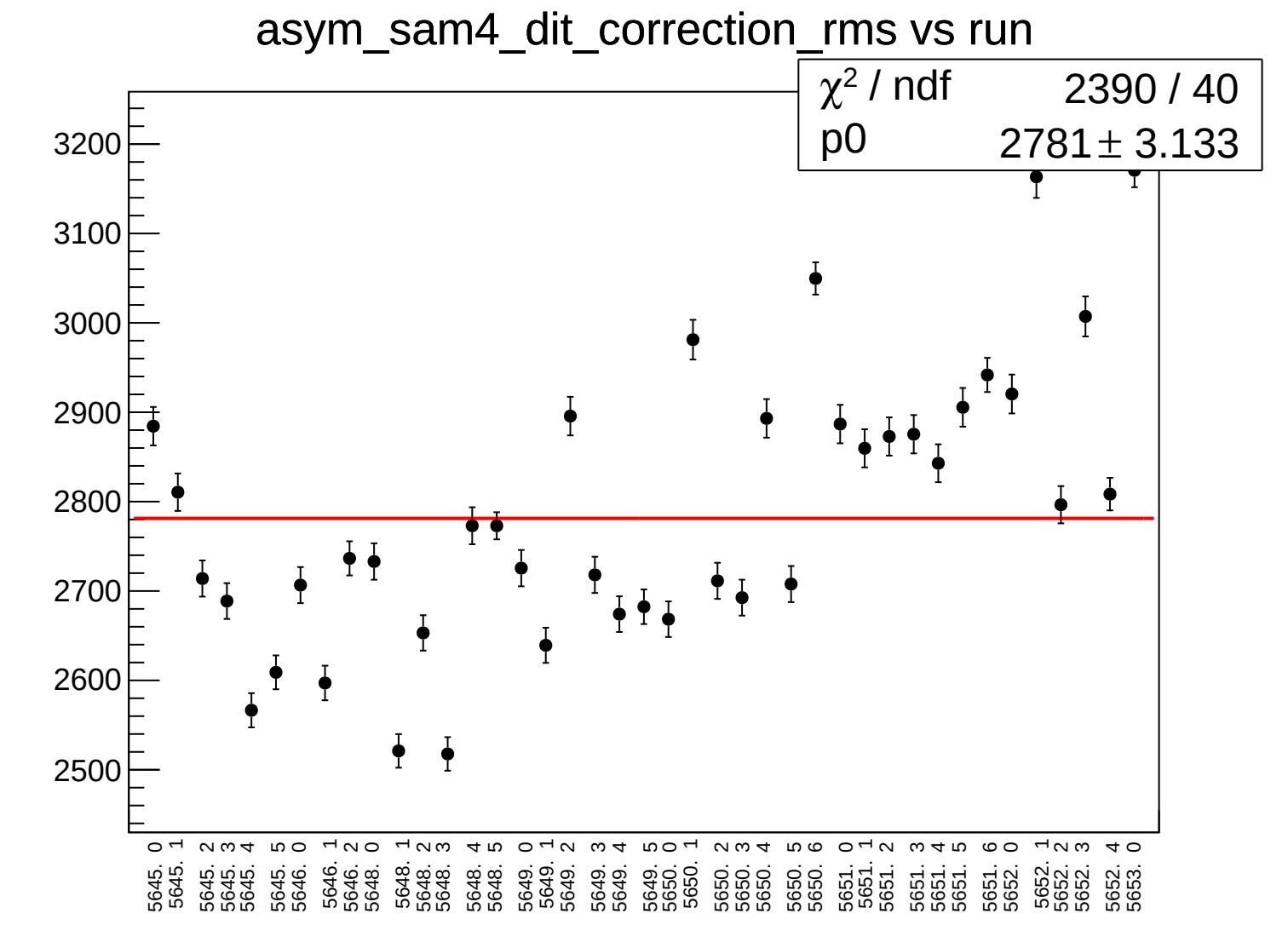

dit_asym_sam4_mean vs run
χ² / ndf 42.47 / 40
p0 −309.2 ± 436.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −48.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

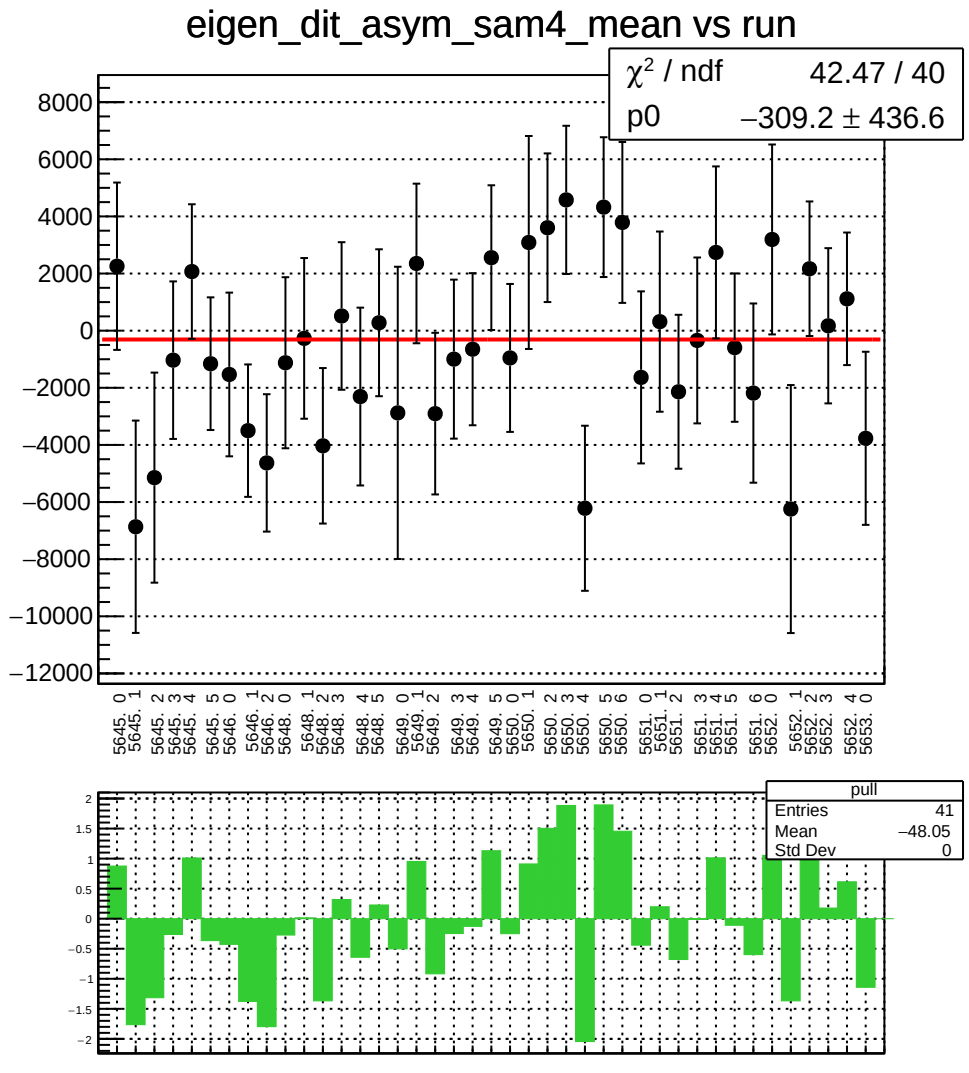

pull1D
Entries 41
Mean −0.04239
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

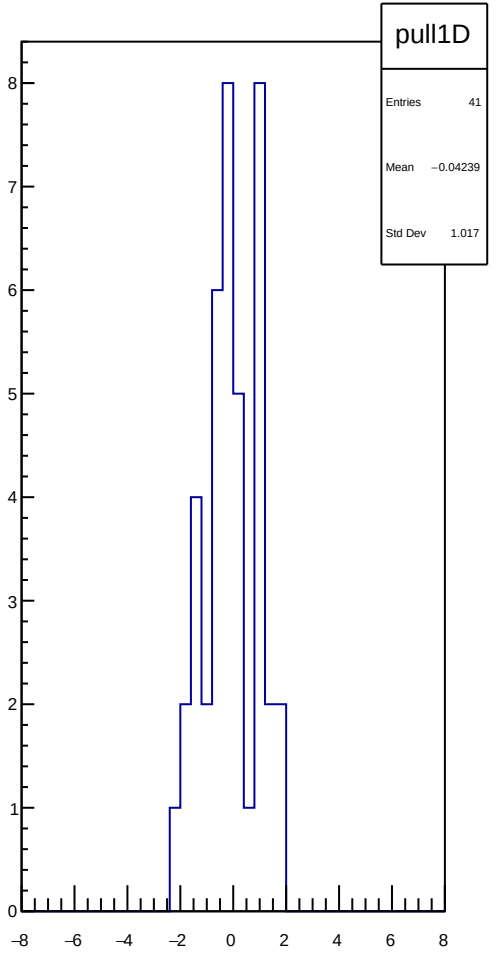

dit_asym_sam4_rms vs run
χ² / ndf 1.98e+04 / 40
p0 271 ± 0.3087
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

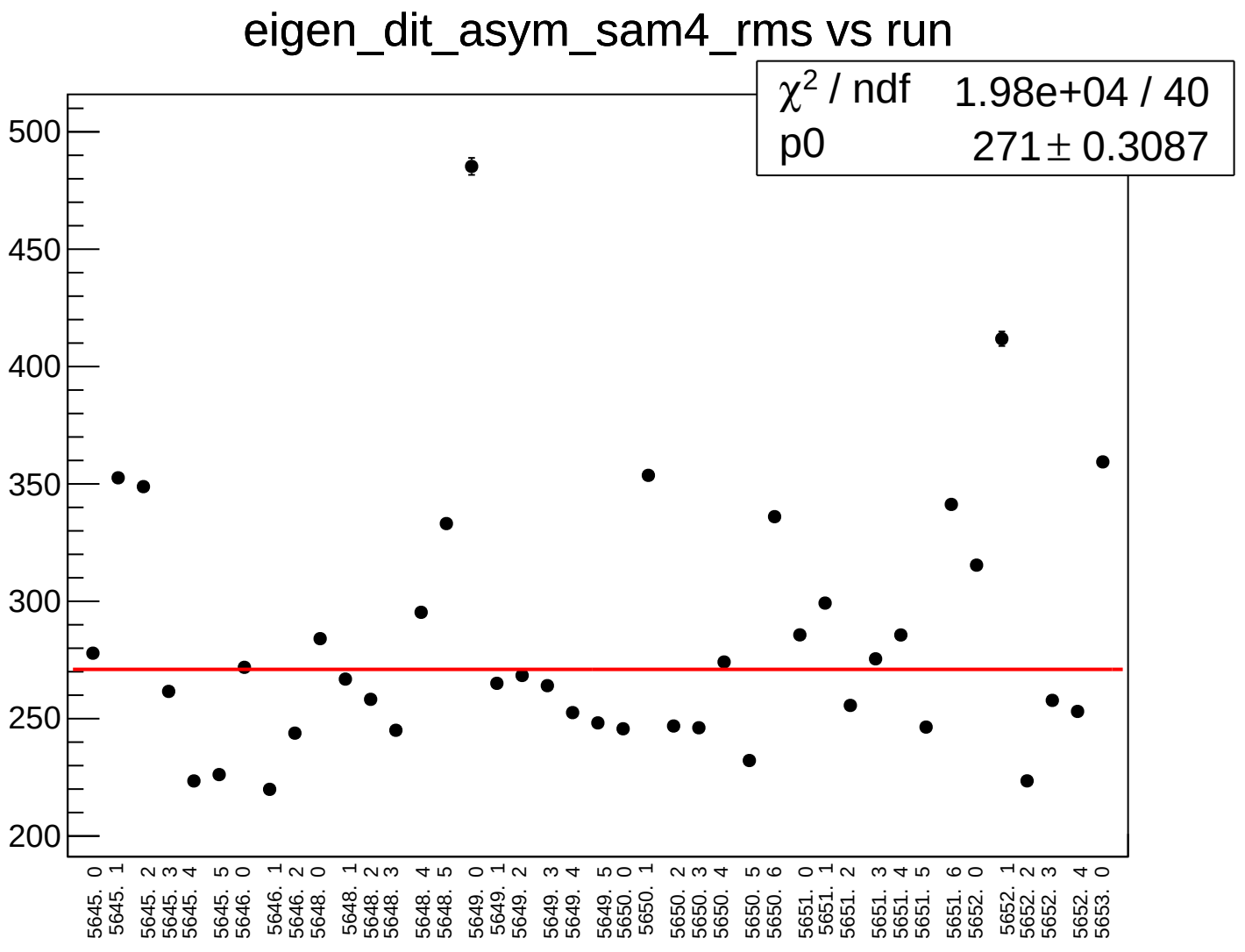

asym_sam4_dit_correction_mean vs run
×10^3
χ^2 / ndf 50.59 / 40
p0 3336 ± 4431
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 422.3
Std Dev 0
2
1
0
−1
−2

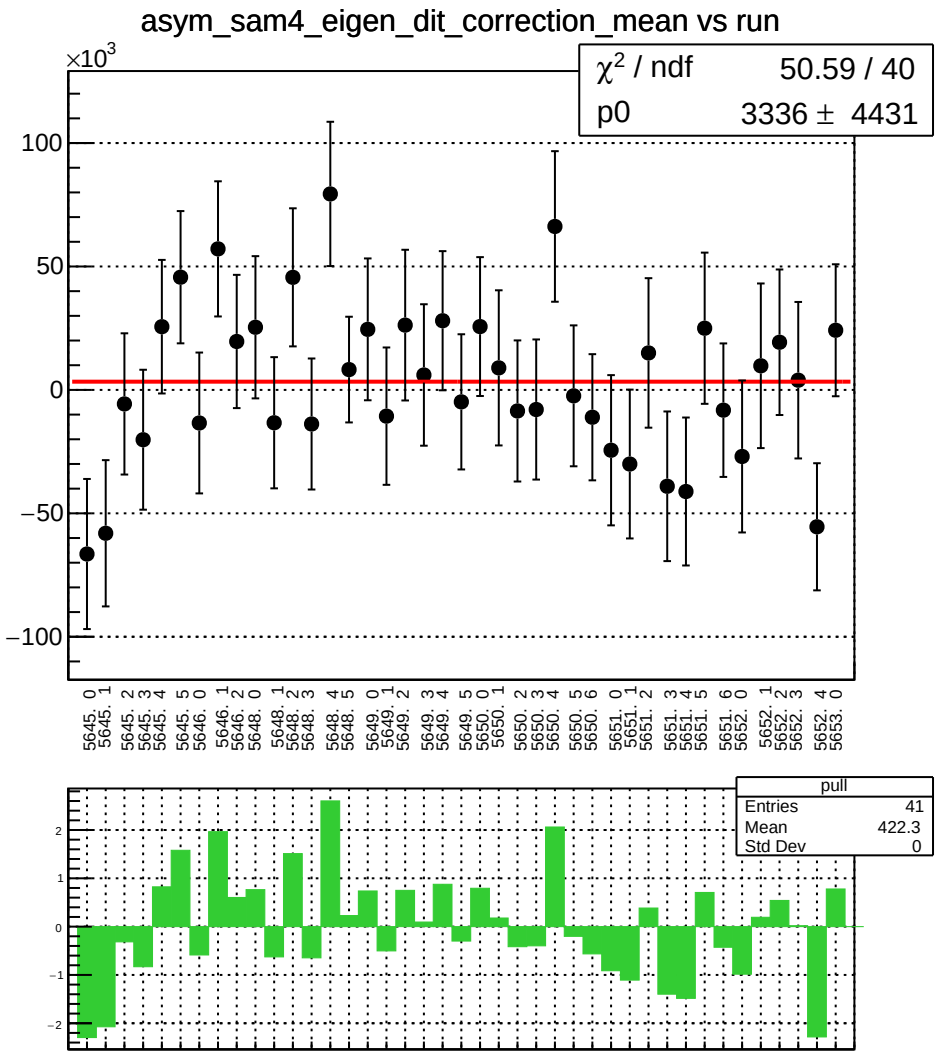

pull1D
Entries 41
Mean −0.003726
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

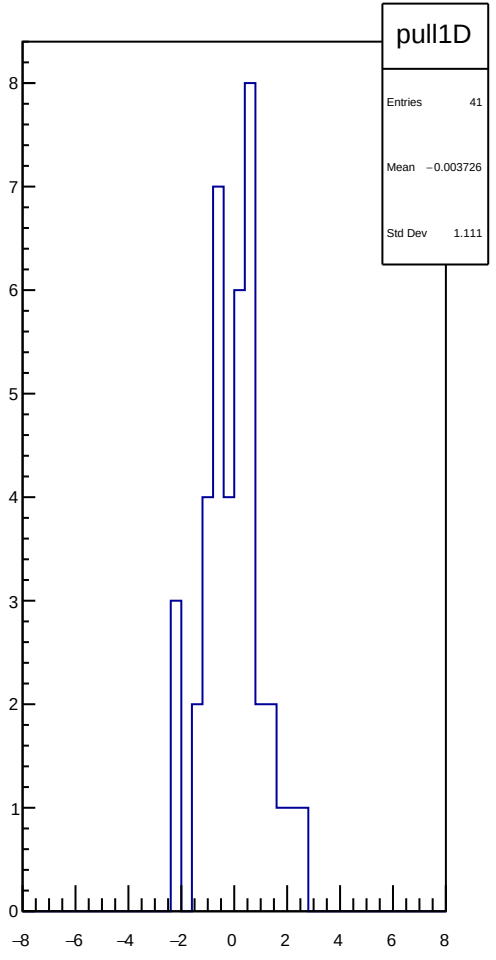

asym_sam4_dit_correction_rms vs run
χ² / ndf 2390 / 40
p0 2781 ± 3.133
3200
3100
3000
2900
2800
2700
2600
2500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

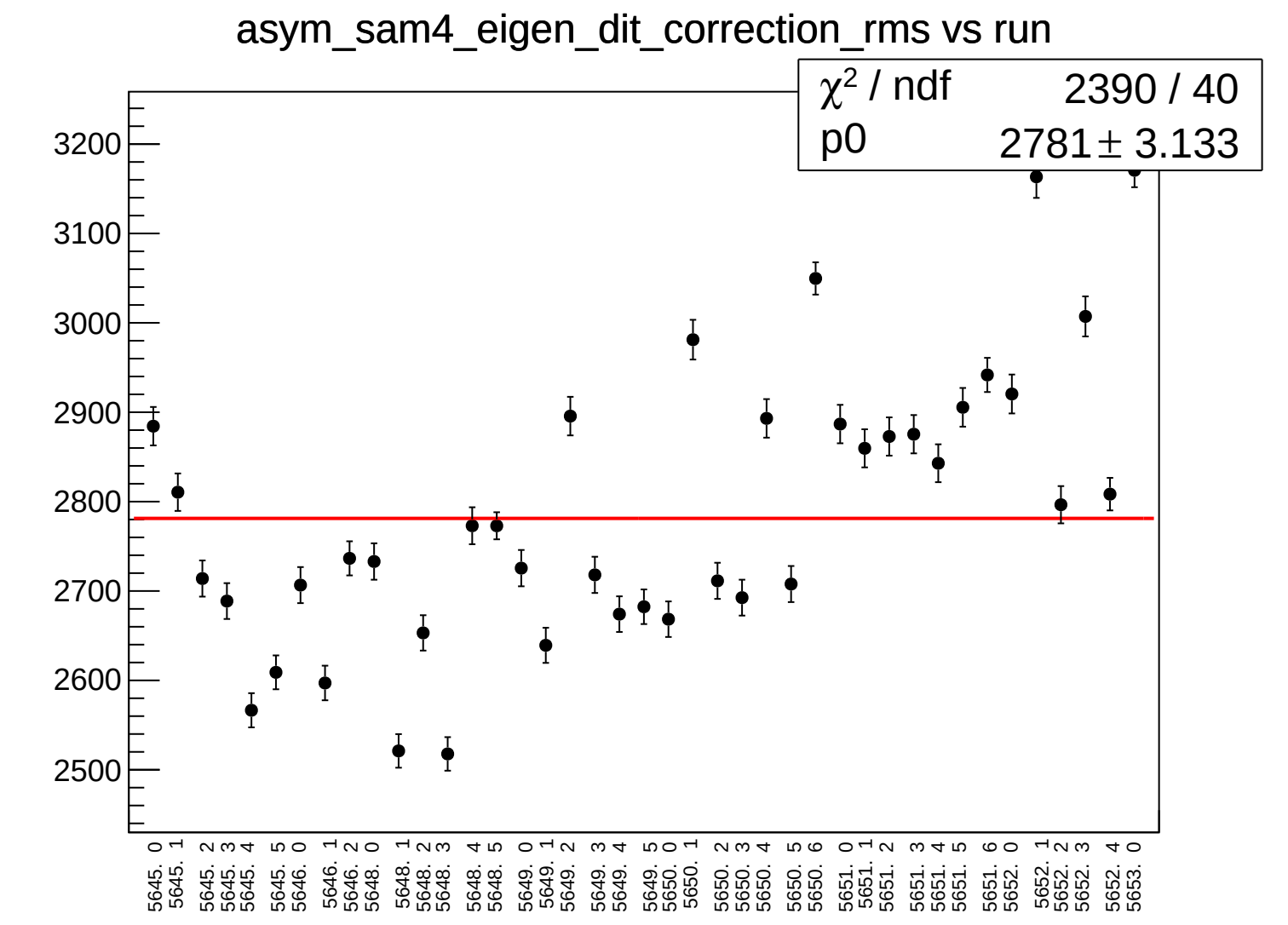

eigen_dit_asym_sam4_mean vs run
χ² / ndf 42.47 / 40
p0 −309.2 ± 436.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −48.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

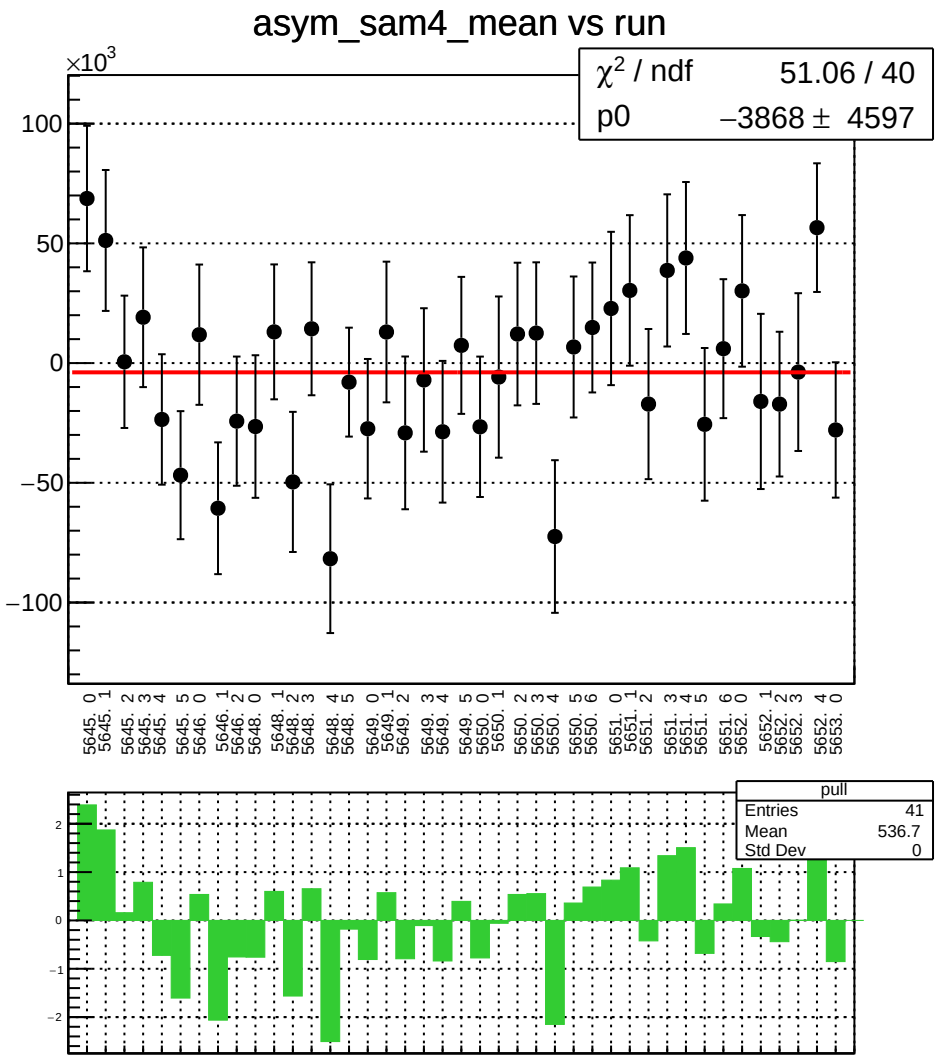

pull1D
Entries 41
Mean −0.04239
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

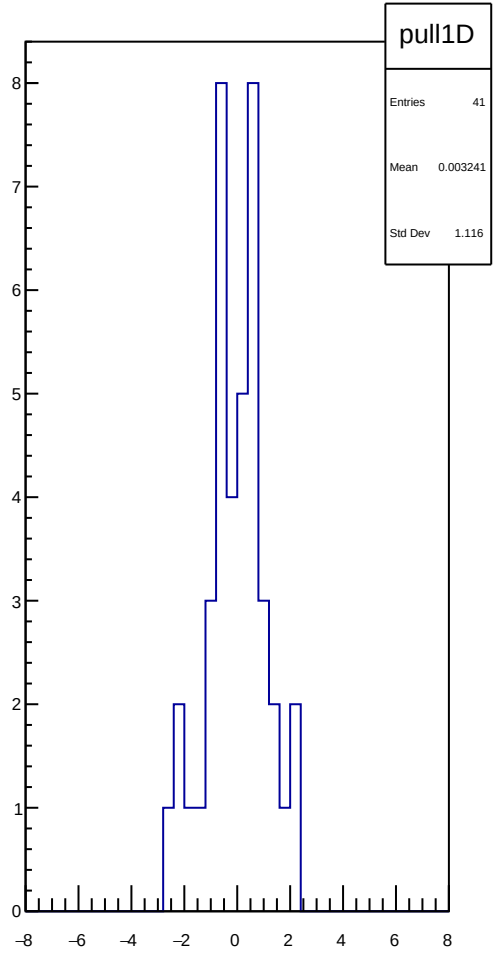

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1.98e+04 / 40
p0 271 ± 0.3087
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

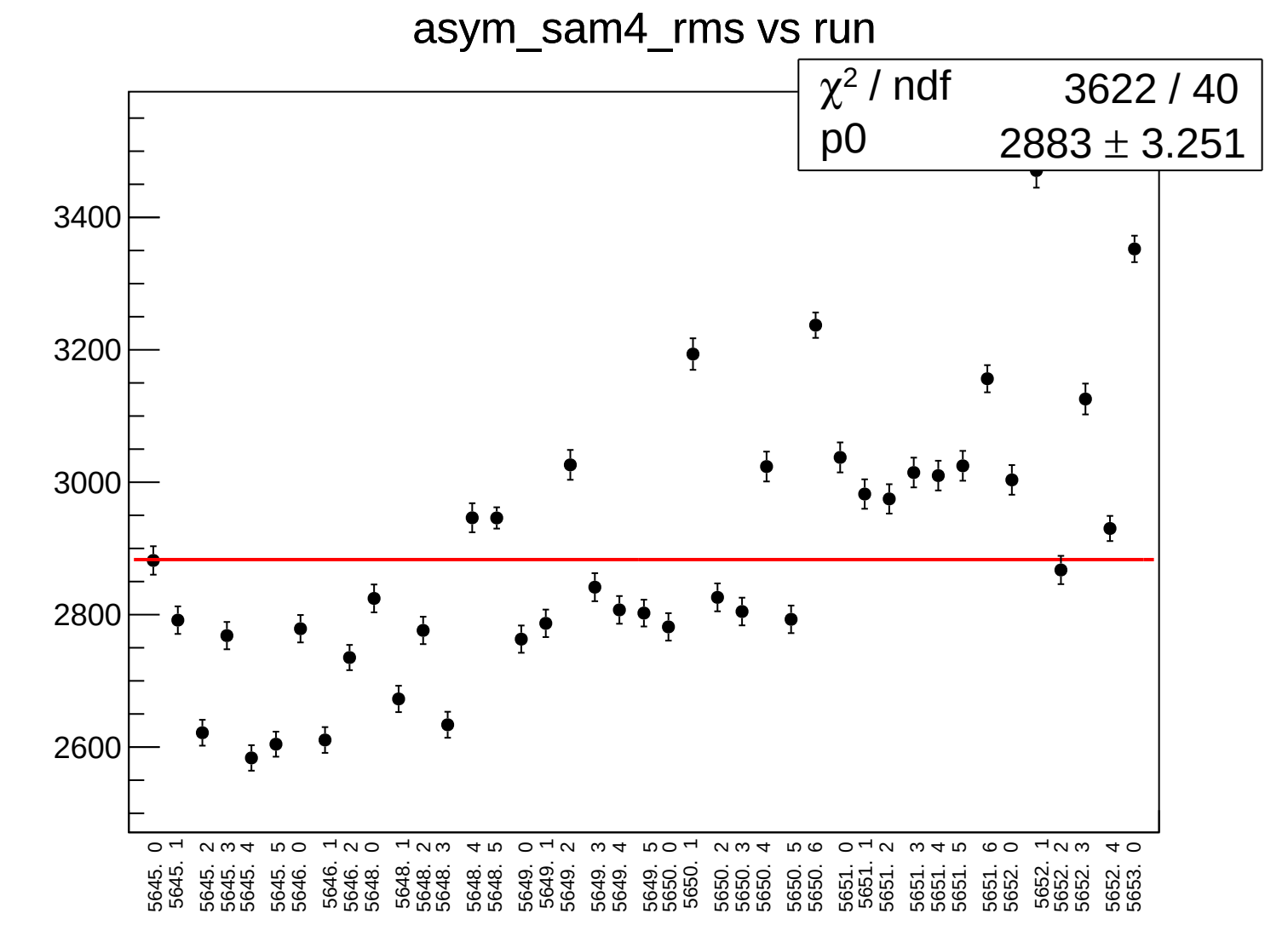

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 50.59 / 40
p0 3336 ± 4431
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 422.3
Std Dev 0
2
1
0
−1
−2

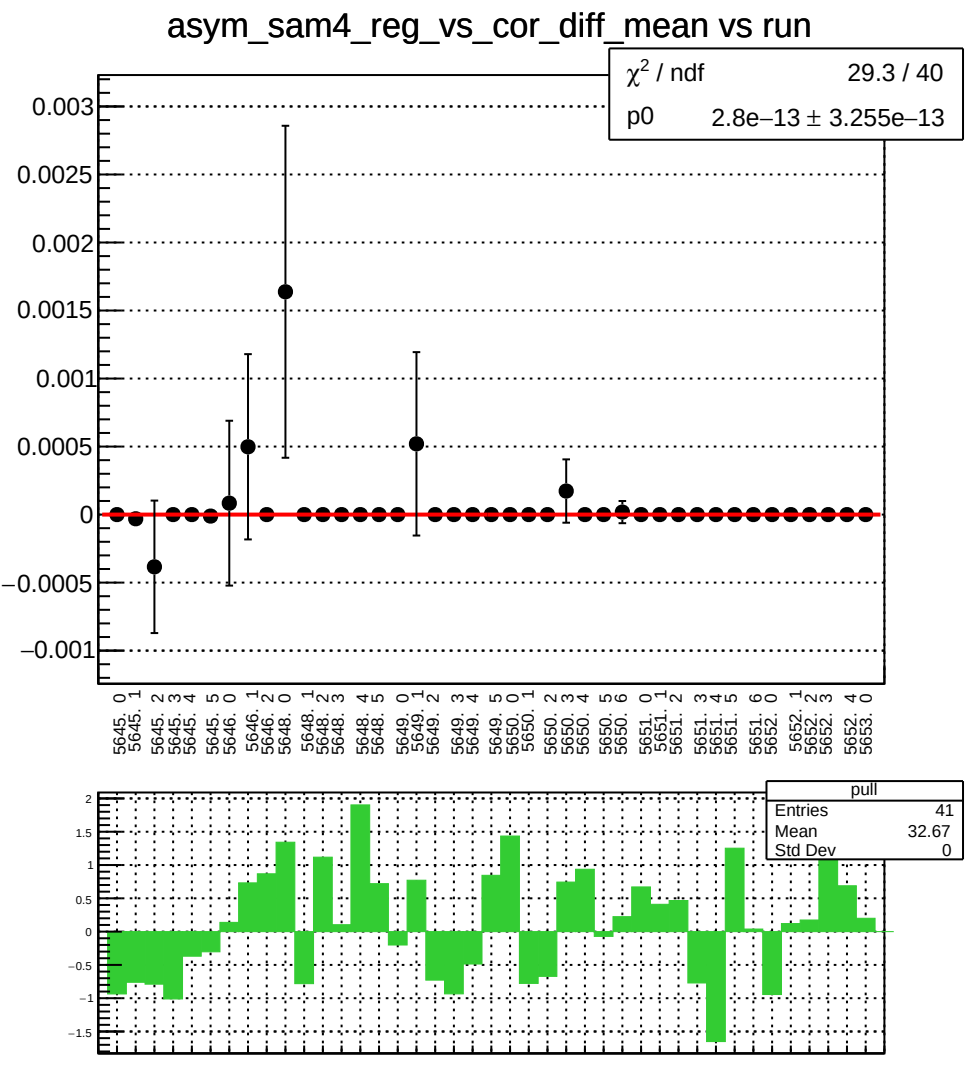

pull1D
Entries 41
Mean −0.003726
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

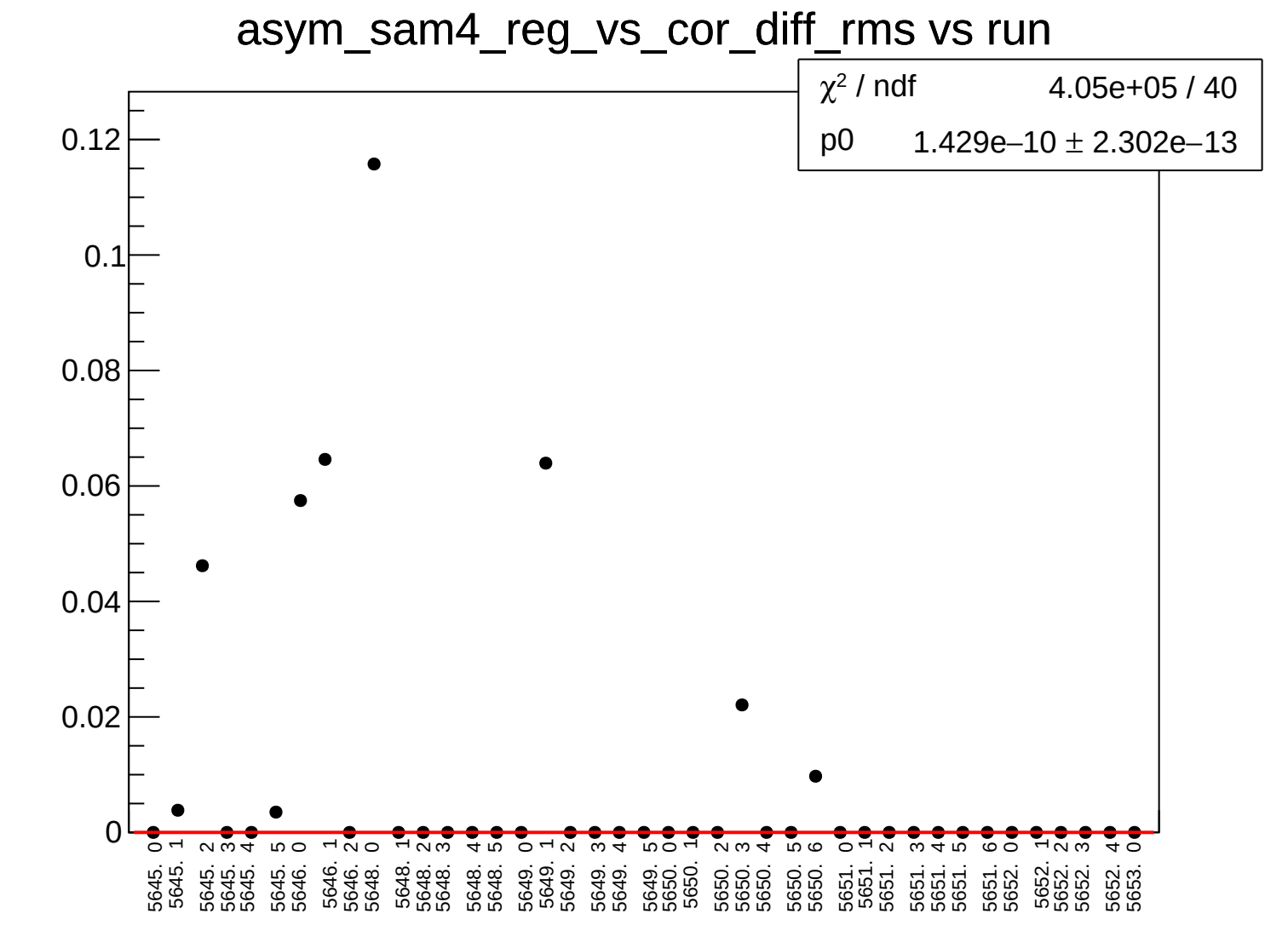

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2390 / 40
p0 2781 ± 3.133
3200
3100
3000
2900
2800
2700
2600
2500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

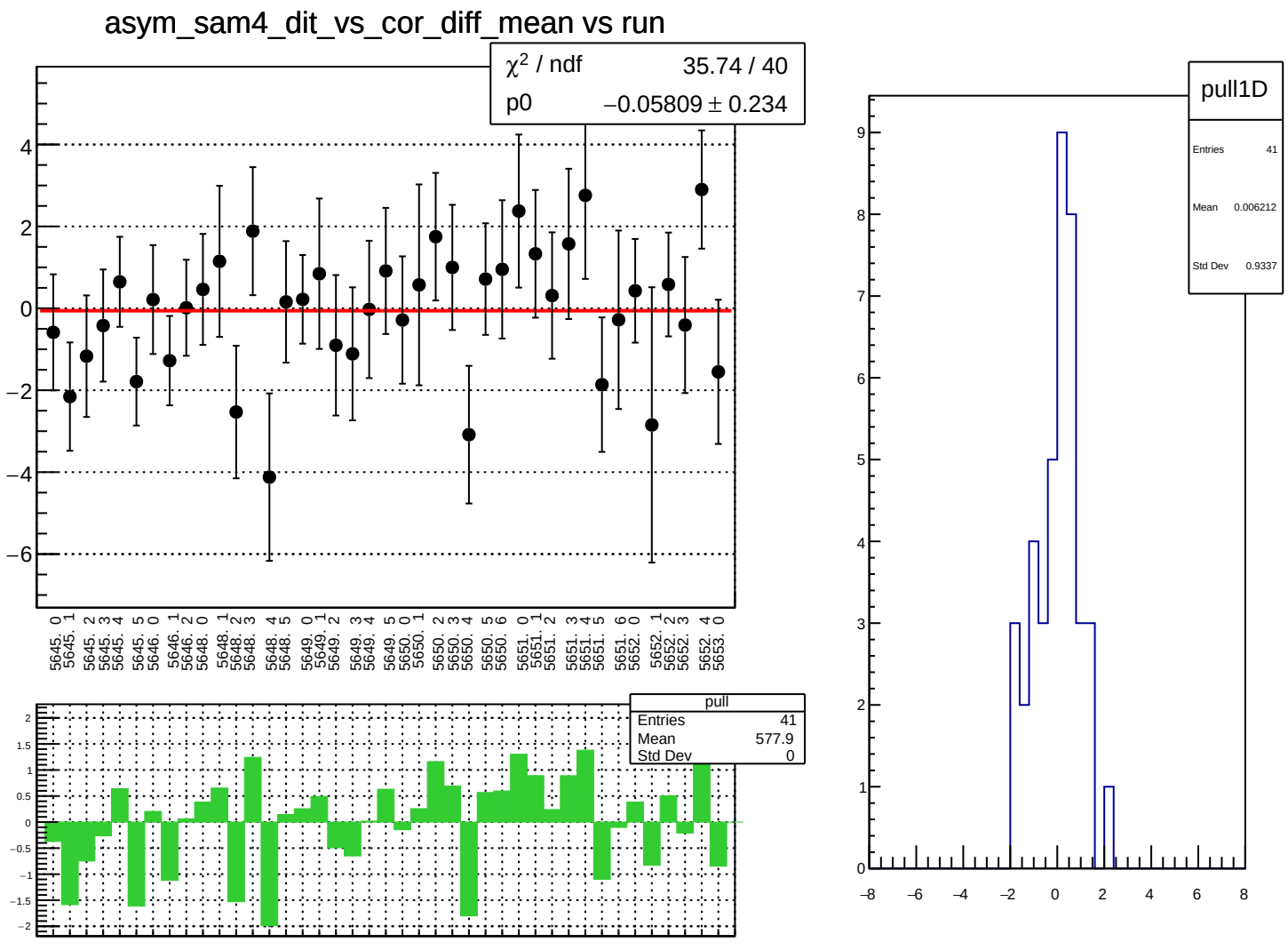

asym_sam4_mean vs run
×10^3
χ² / ndf 51.06 / 40
p0 −3868 ± 4597
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 536.7
Std Dev 0
2
1
0
−1
−2

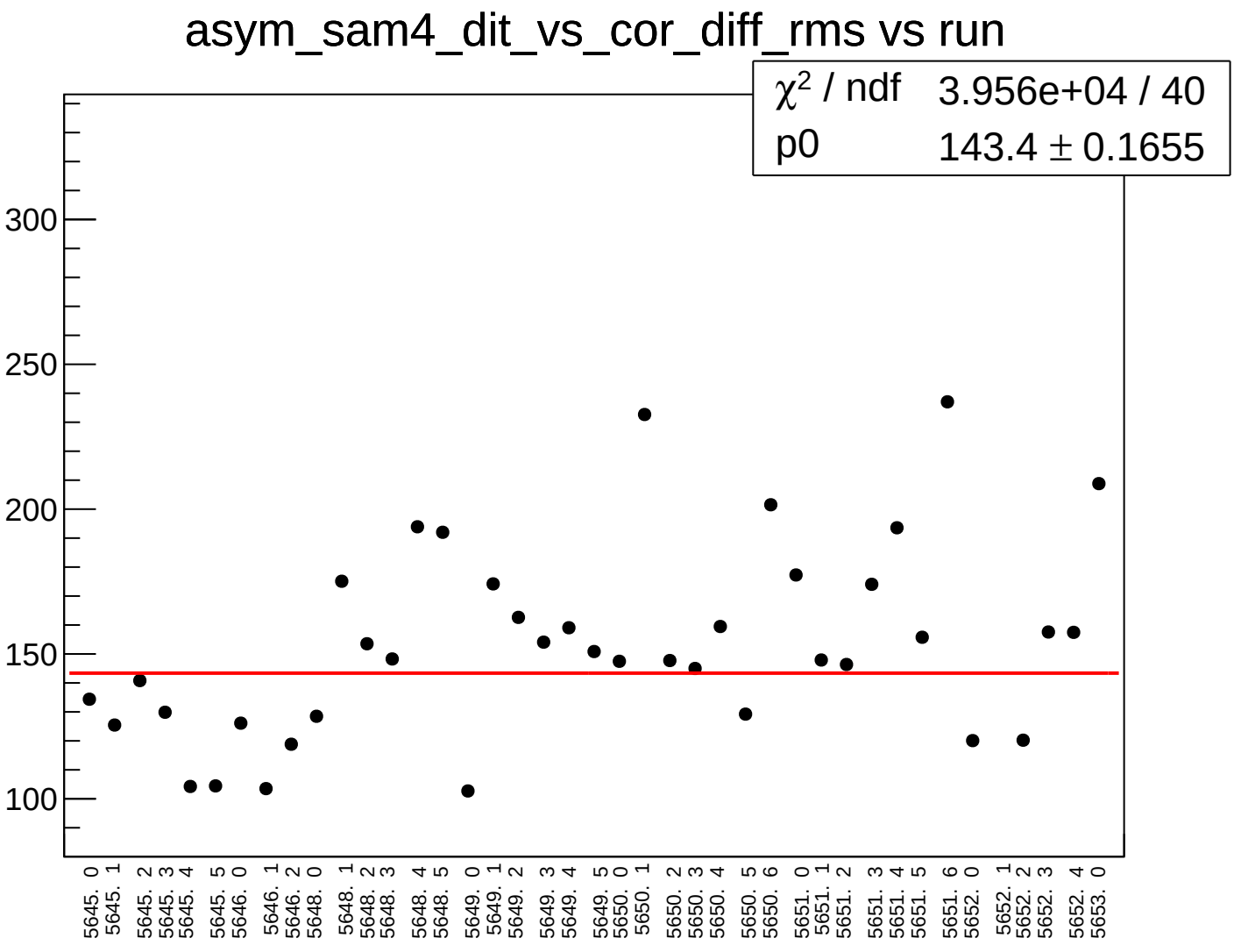

pull1D
Entries 41
Mean 0.003241
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

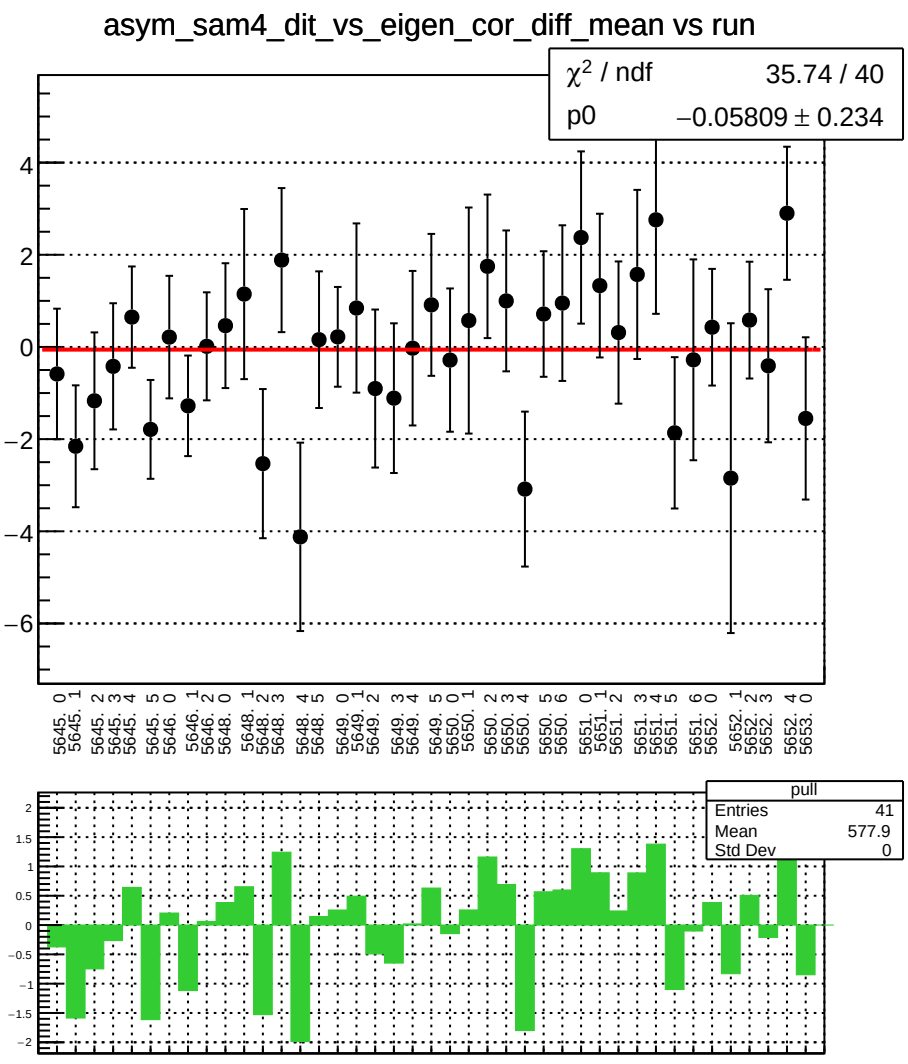

asym_sam4_rms vs run
χ² / ndf 3622 / 40
p0 2883 ± 3.251
3400
3200
3000
2800
2600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

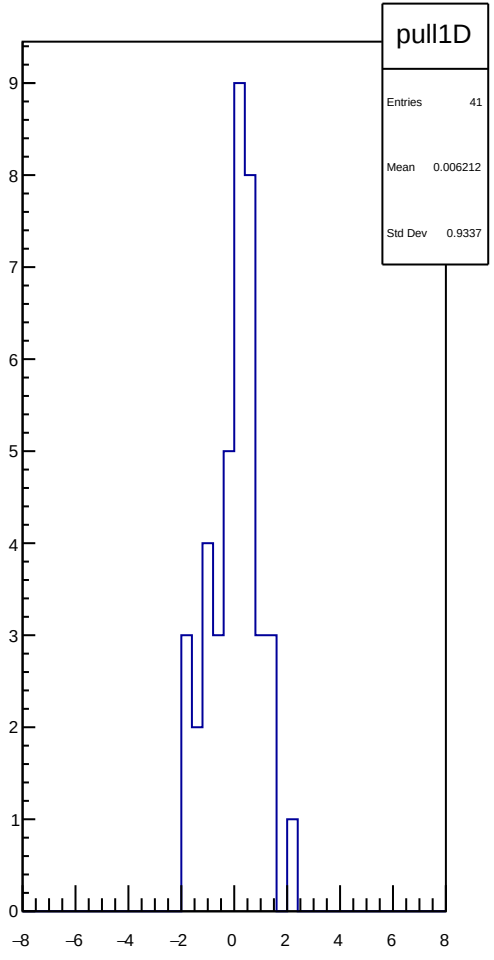

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 29.3 / 40
p0 2.8e−13 ± 3.255e−13
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.1259
Std Dev 0.836
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

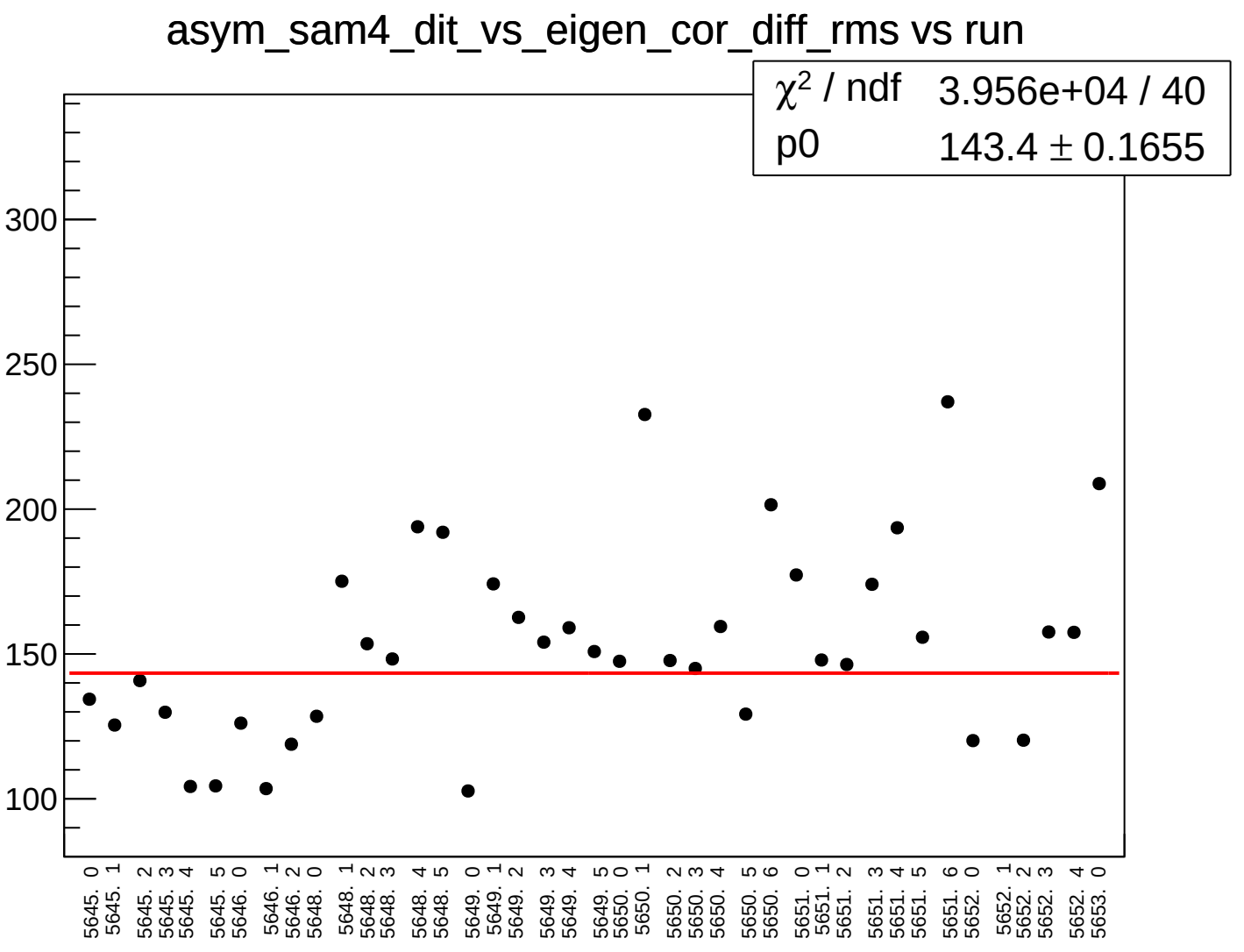

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 4.05e+05 / 40
p0 1.429e−10 ± 2.302e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

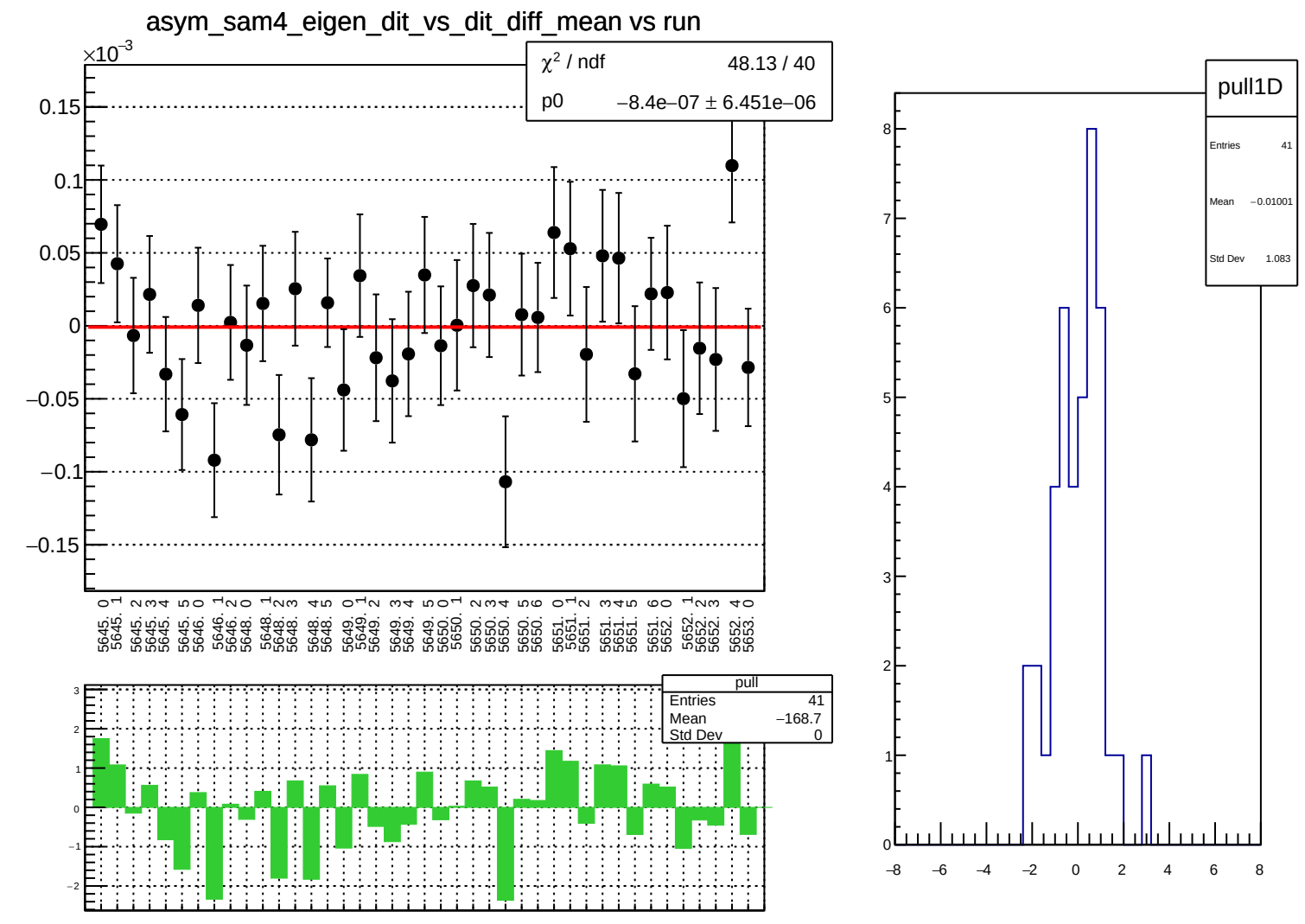

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 35.74 / 40
p0 −0.05809 ± 0.234
pull
Entries 41
Mean 577.9
Std Dev 0
pull1D
Entries 41
Mean 0.006212
Std Dev 0.9337

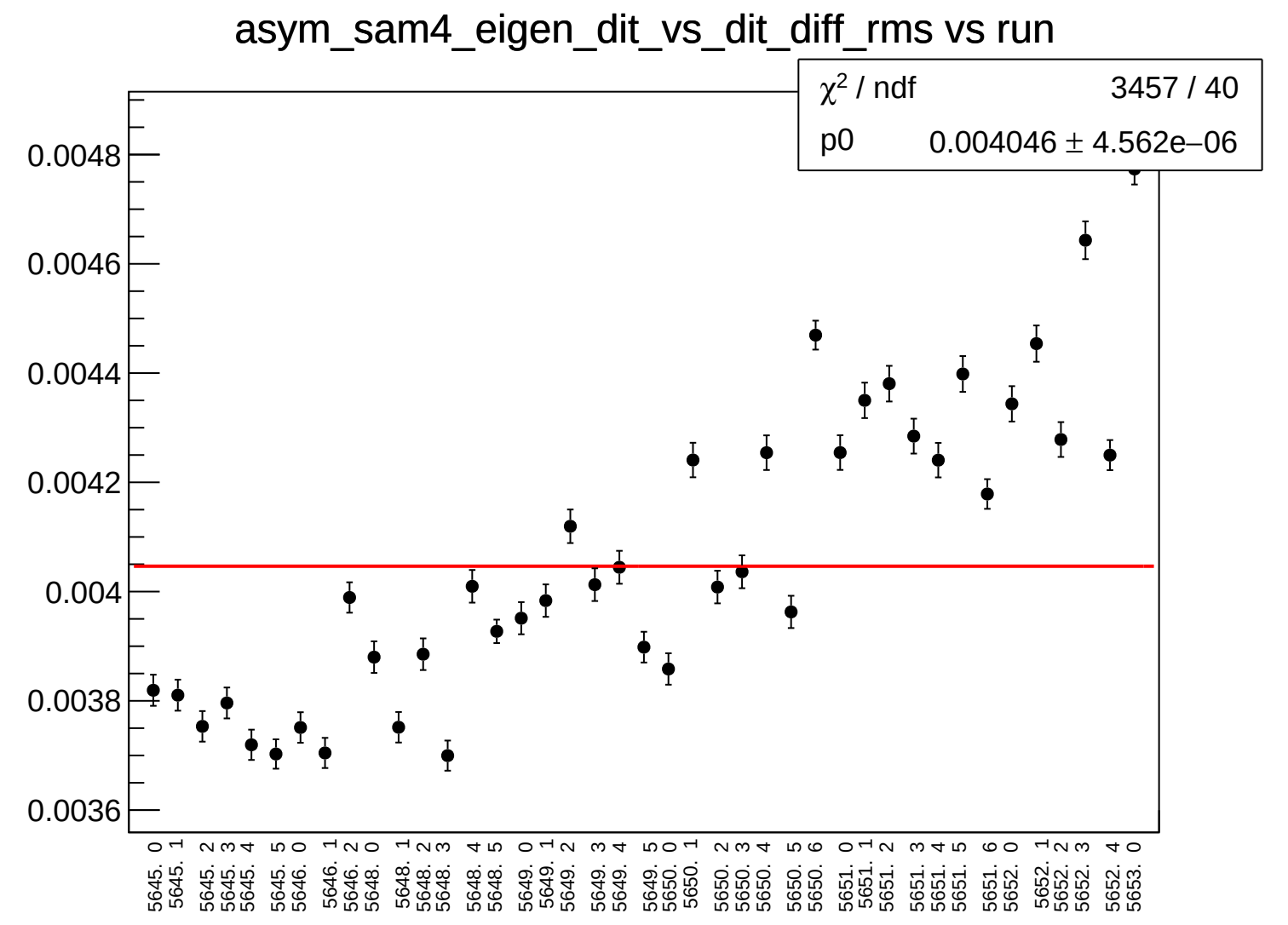

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3.956e+04 / 40
p0 143.4 ± 0.1655
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

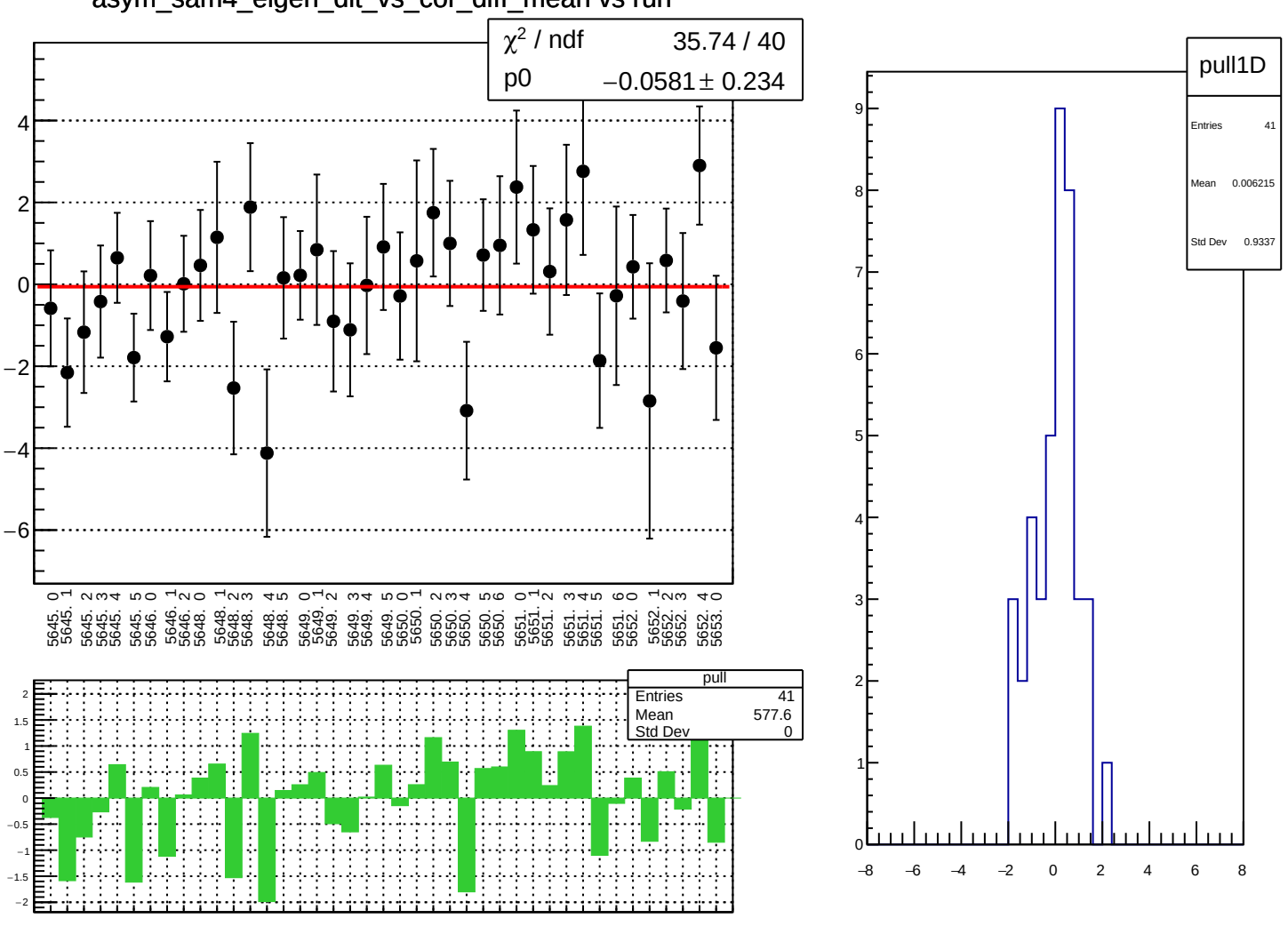

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.74 / 40
p0 −0.05809 ± 0.234
pull
Entries 41
Mean 577.9
Std Dev 0

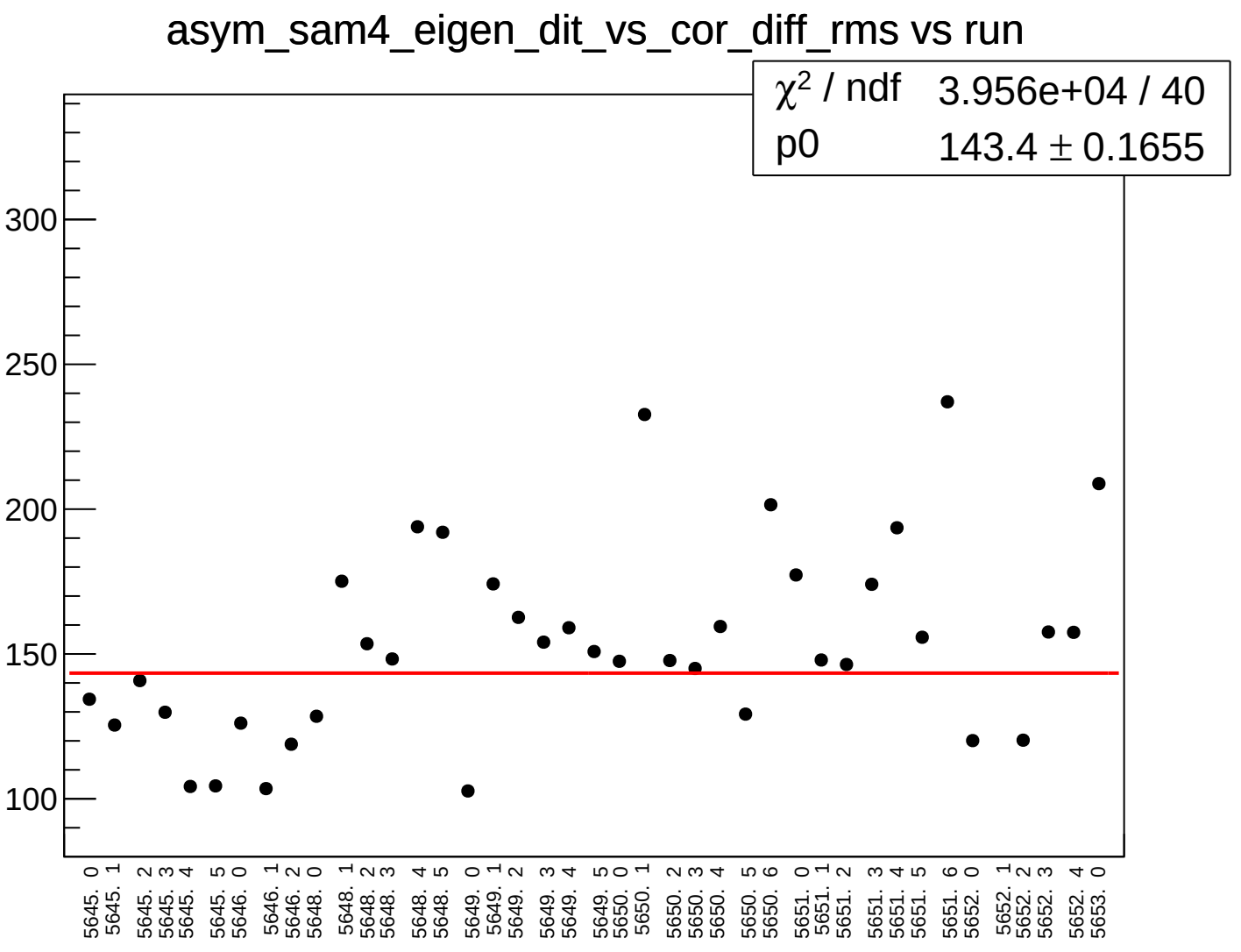

pull1D
Entries 41
Mean 0.006212
Std Dev 0.9337

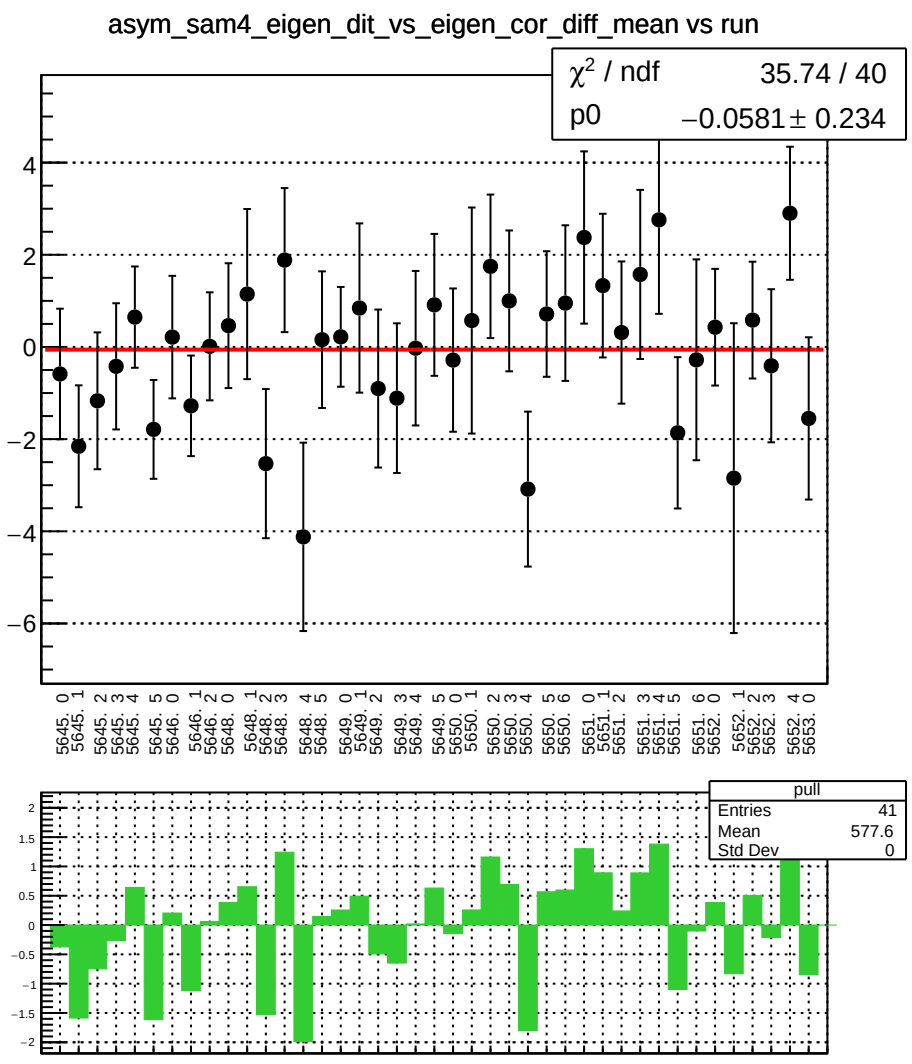

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.956e+04 / 40
p0 143.4 ± 0.1655
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

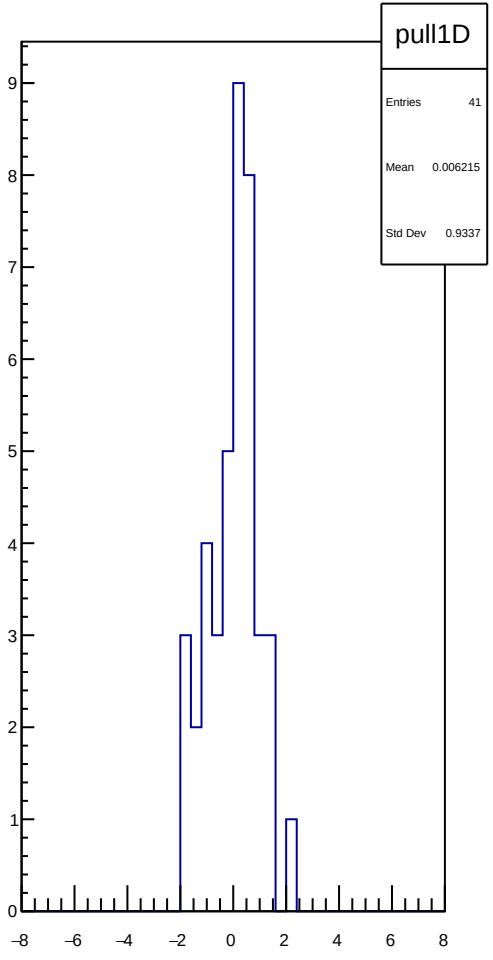

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.13 / 40
p0 −8.4e−07 ± 6.451e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −168.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01001
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

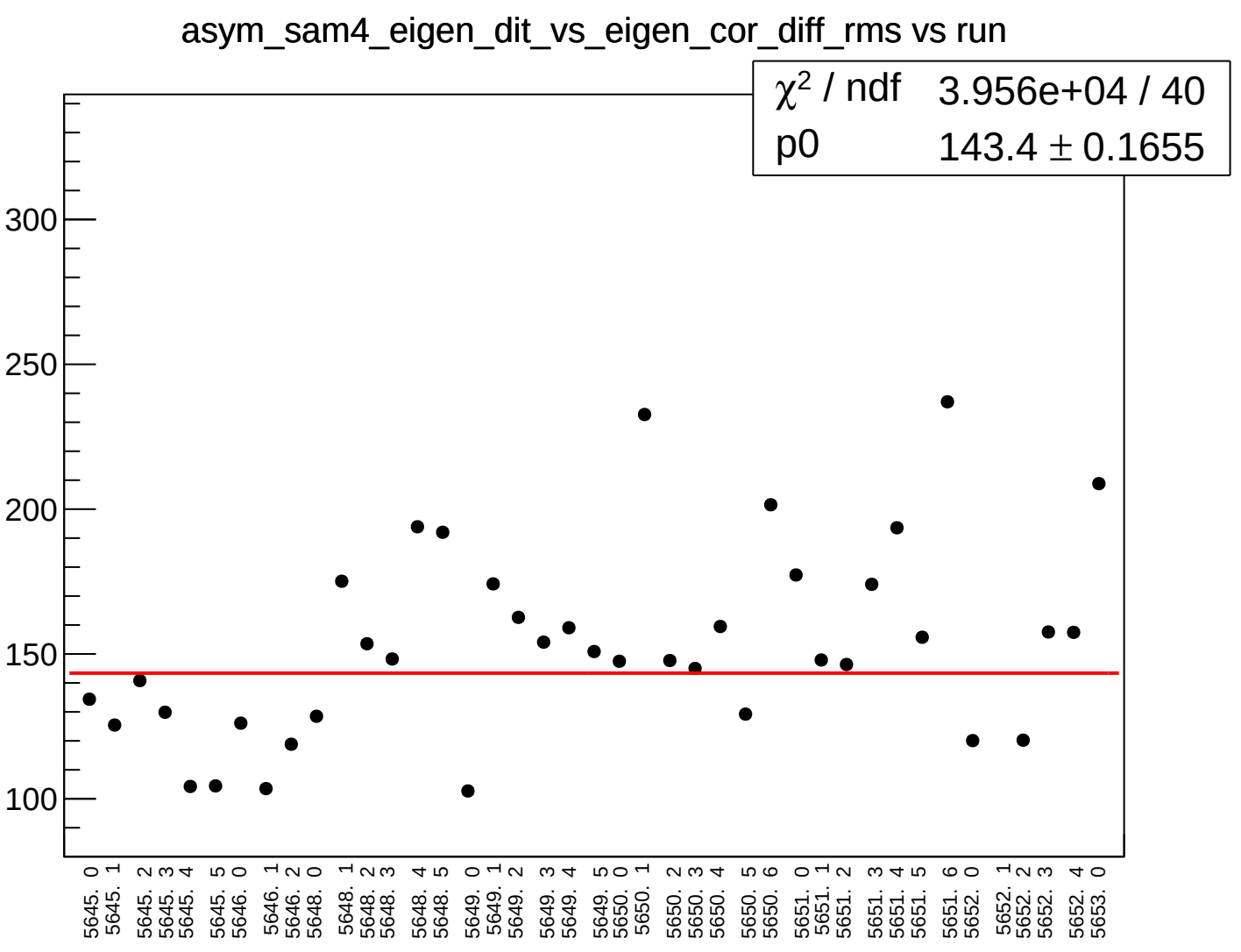

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3457 / 40
p0 0.004046 ± 4.562e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

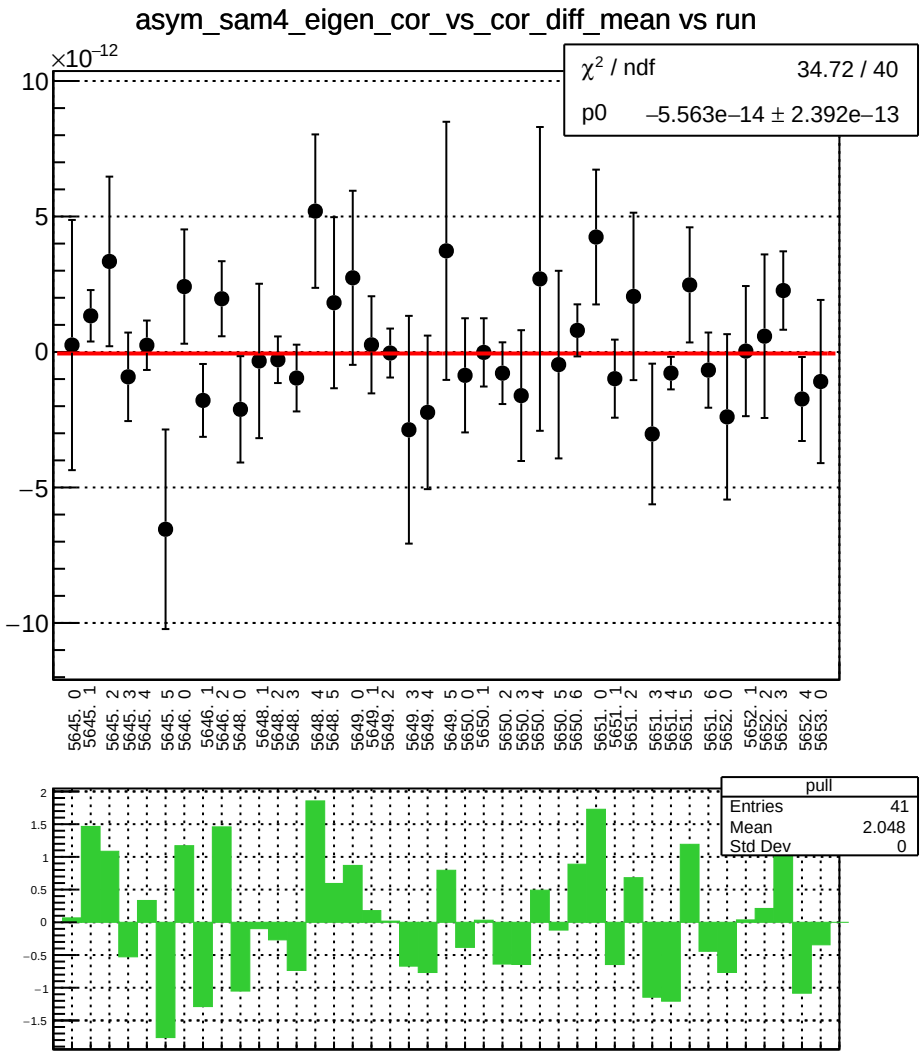

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.74 / 40
p0 −0.0581 ± 0.234
pull
Entries 41
Mean 577.6
Std Dev 0
pull1D
Entries 41
Mean 0.006215
Std Dev 0.9337

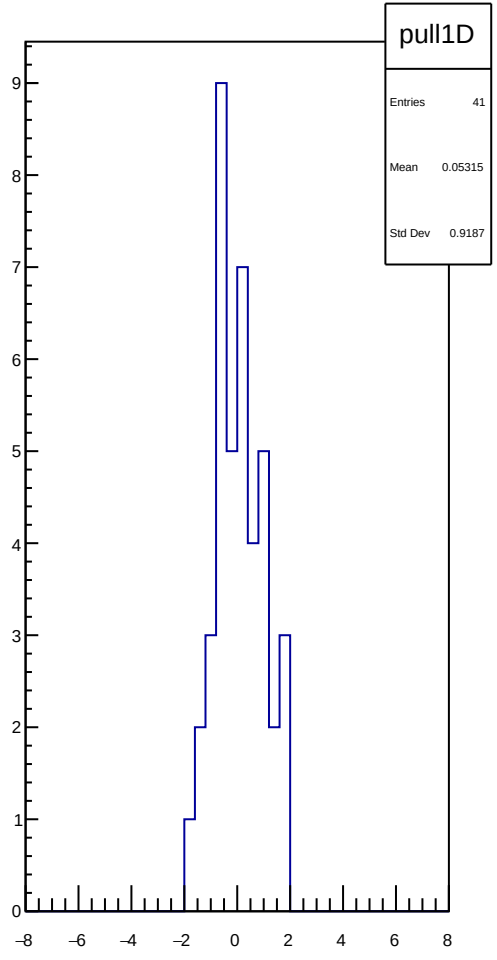

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.956e+04 / 40
p0 143.4 ± 0.1655
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

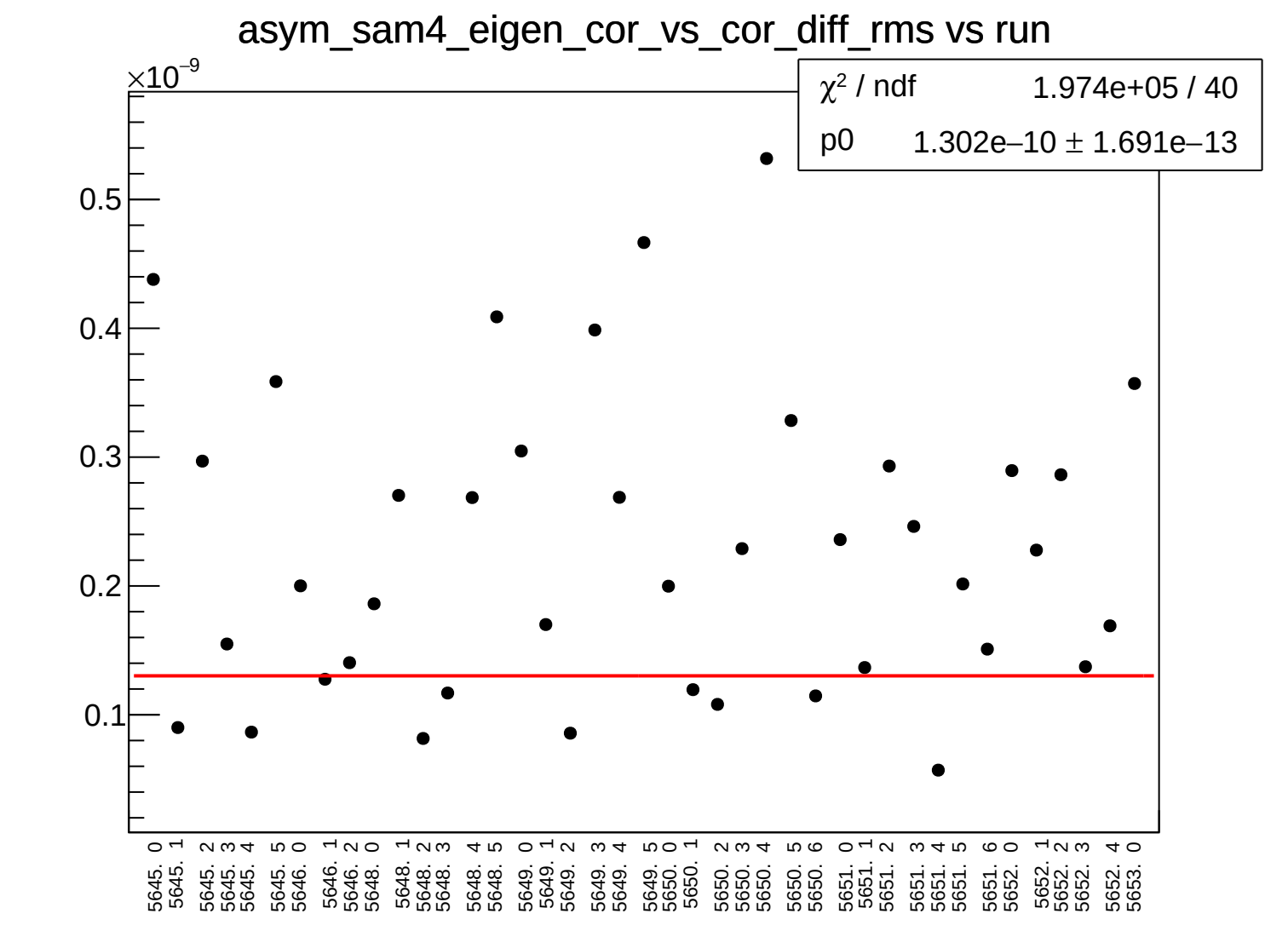

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.74 / 40
p0 −0.0581 ± 0.234
pull
Entries 41
Mean 577.6
Std Dev 0

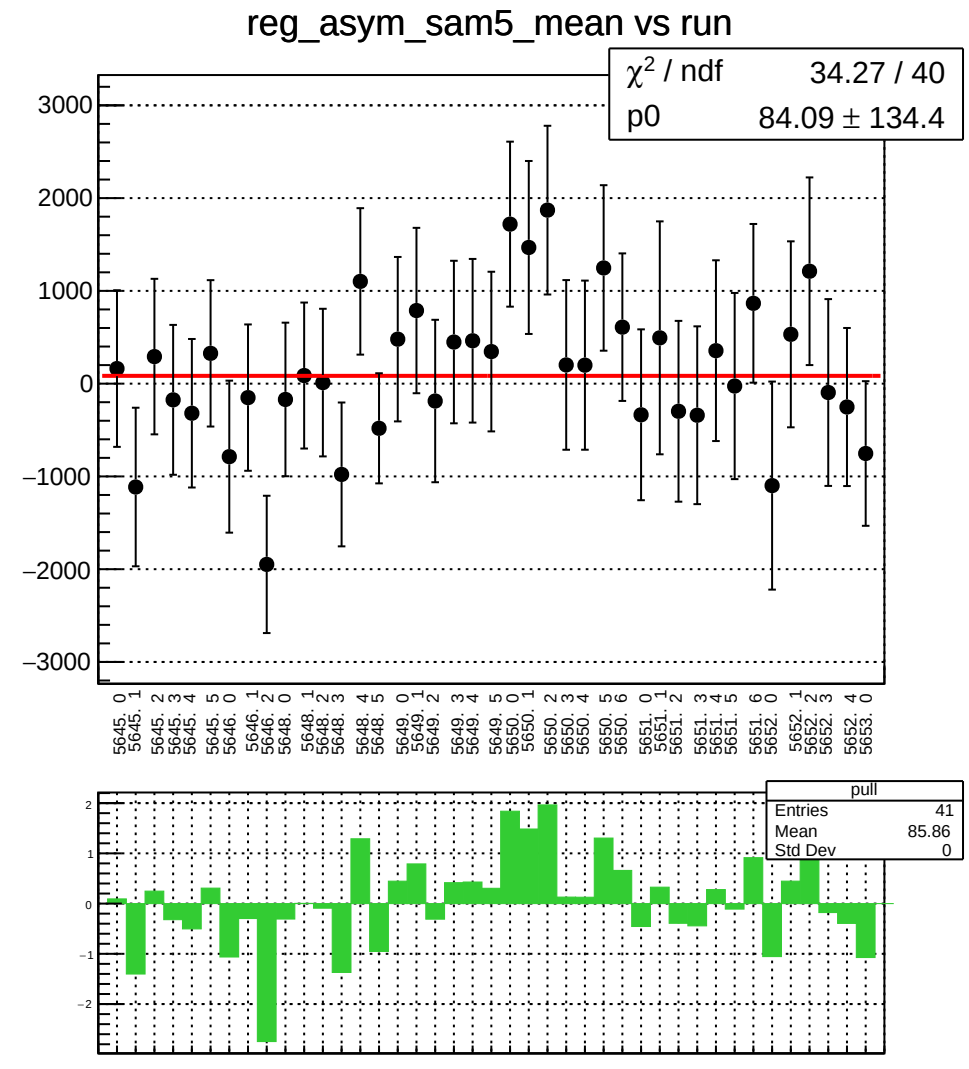

pull1D
Entries 41
Mean 0.006215
Std Dev 0.9337

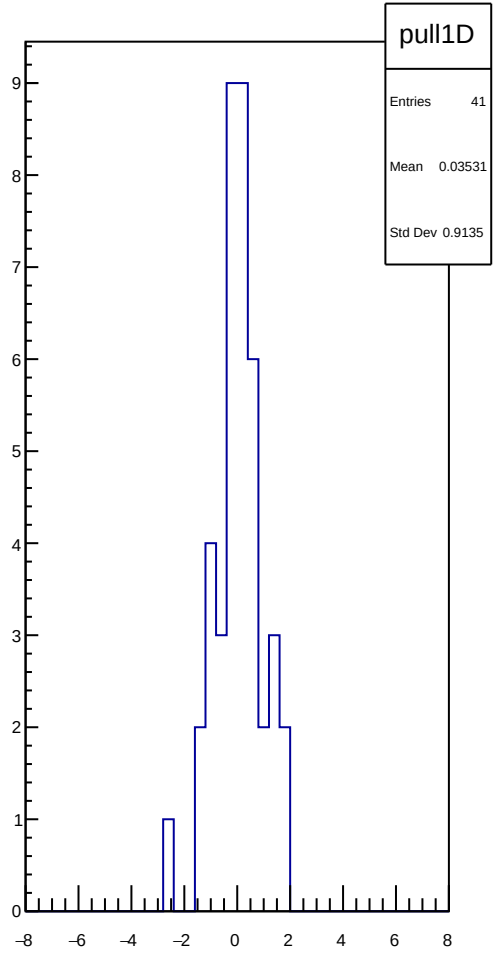

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.956e+04 / 40
p0 143.4 ± 0.1655
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

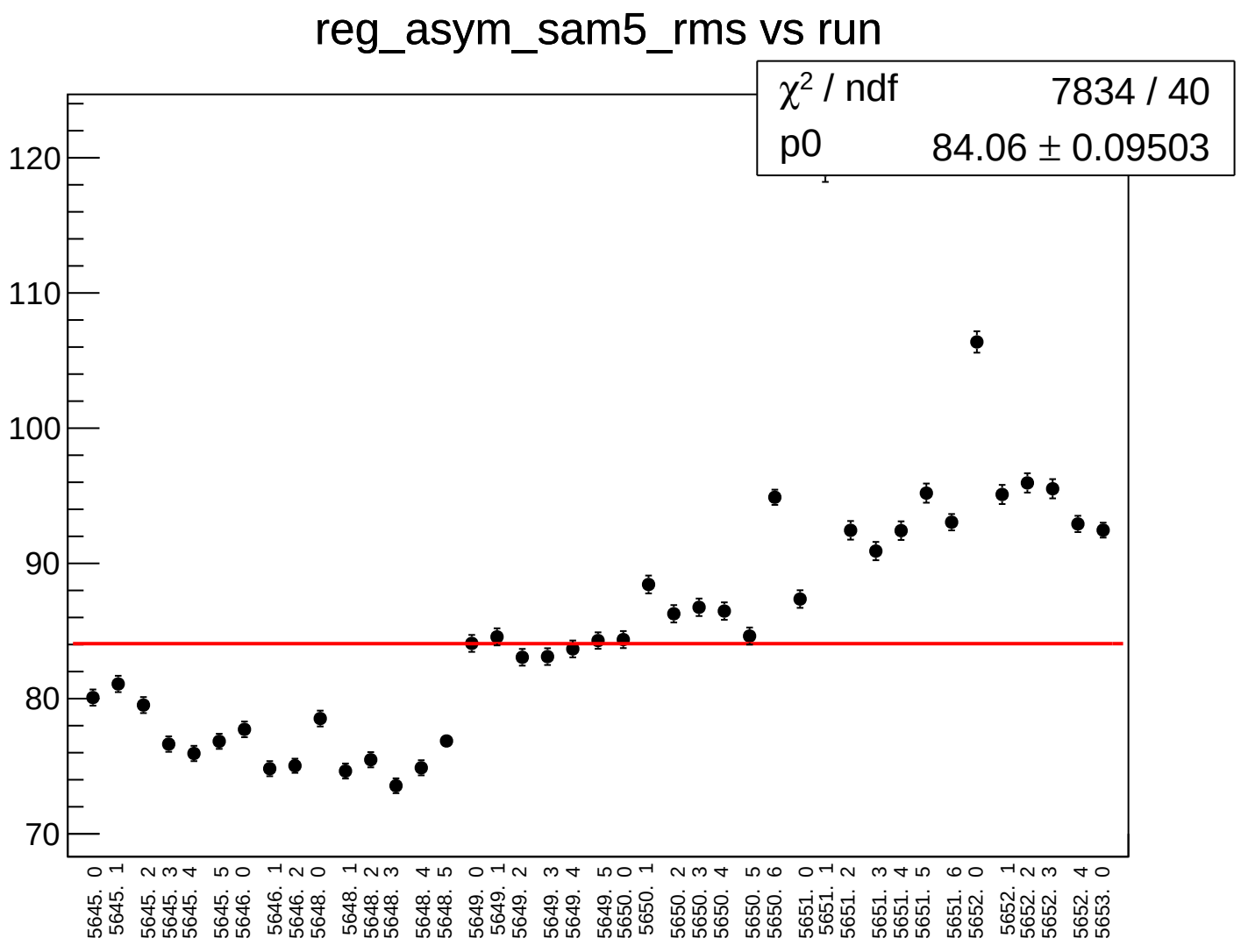

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.72 / 40
p0 −5.563e−14 ± 2.392e−13
pull
Entries 41
Mean 2.048
Std Dev 0

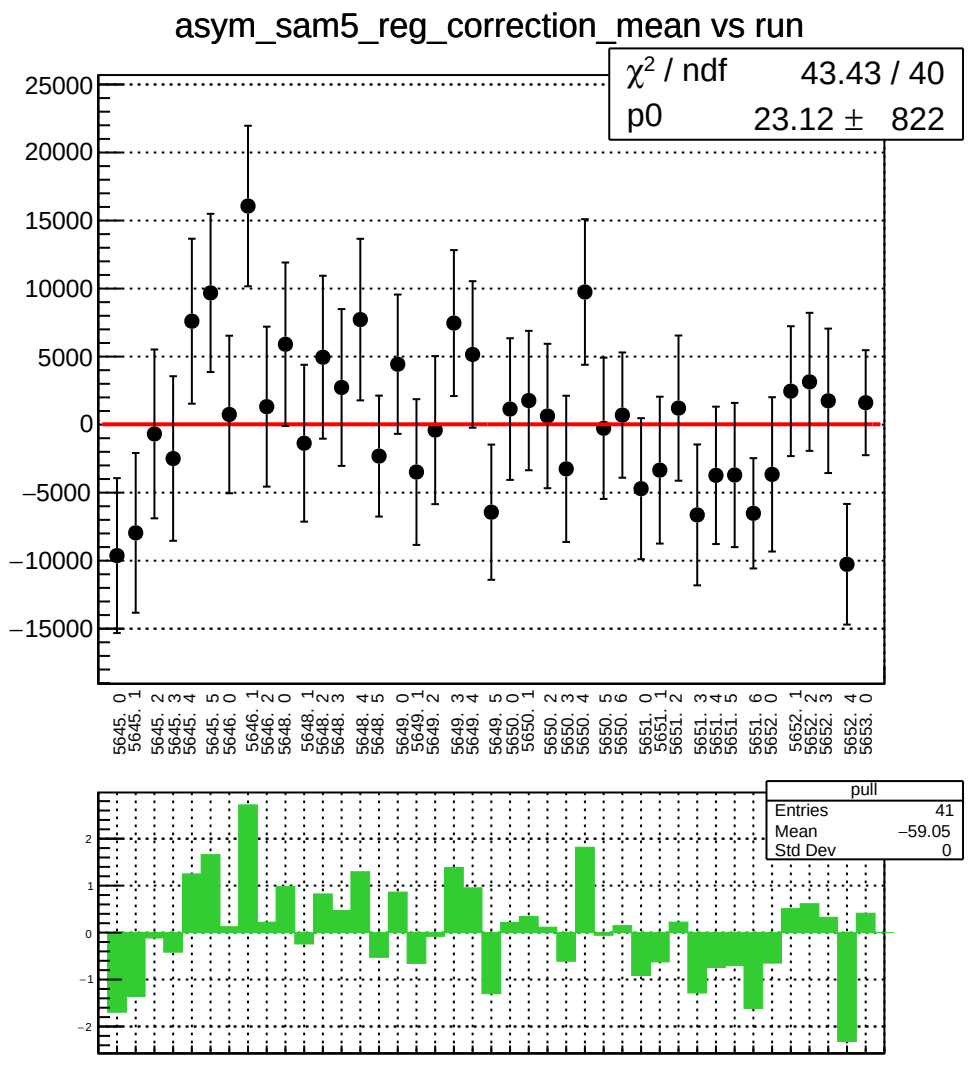

pull1D
Entries 41
Mean 0.05315
Std Dev 0.9187

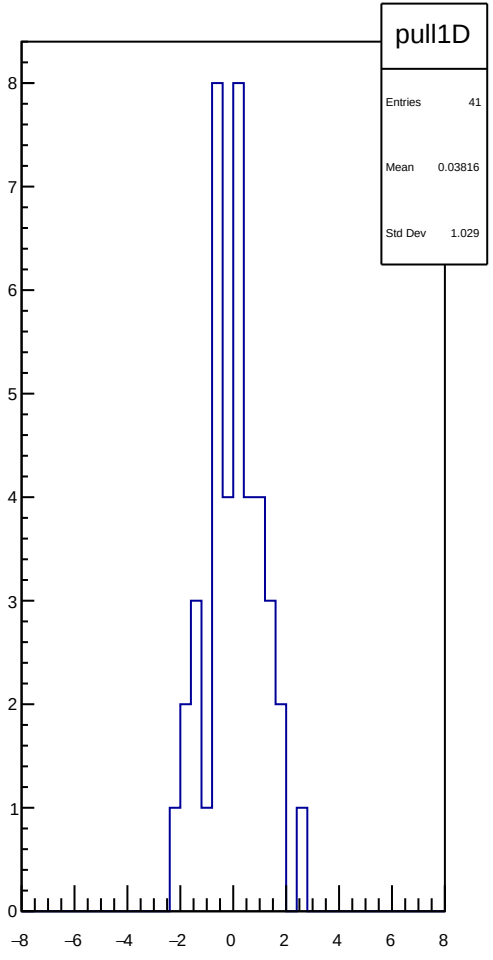

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.974e+05 / 40
p0 1.302e−10 ± 1.691e−13
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

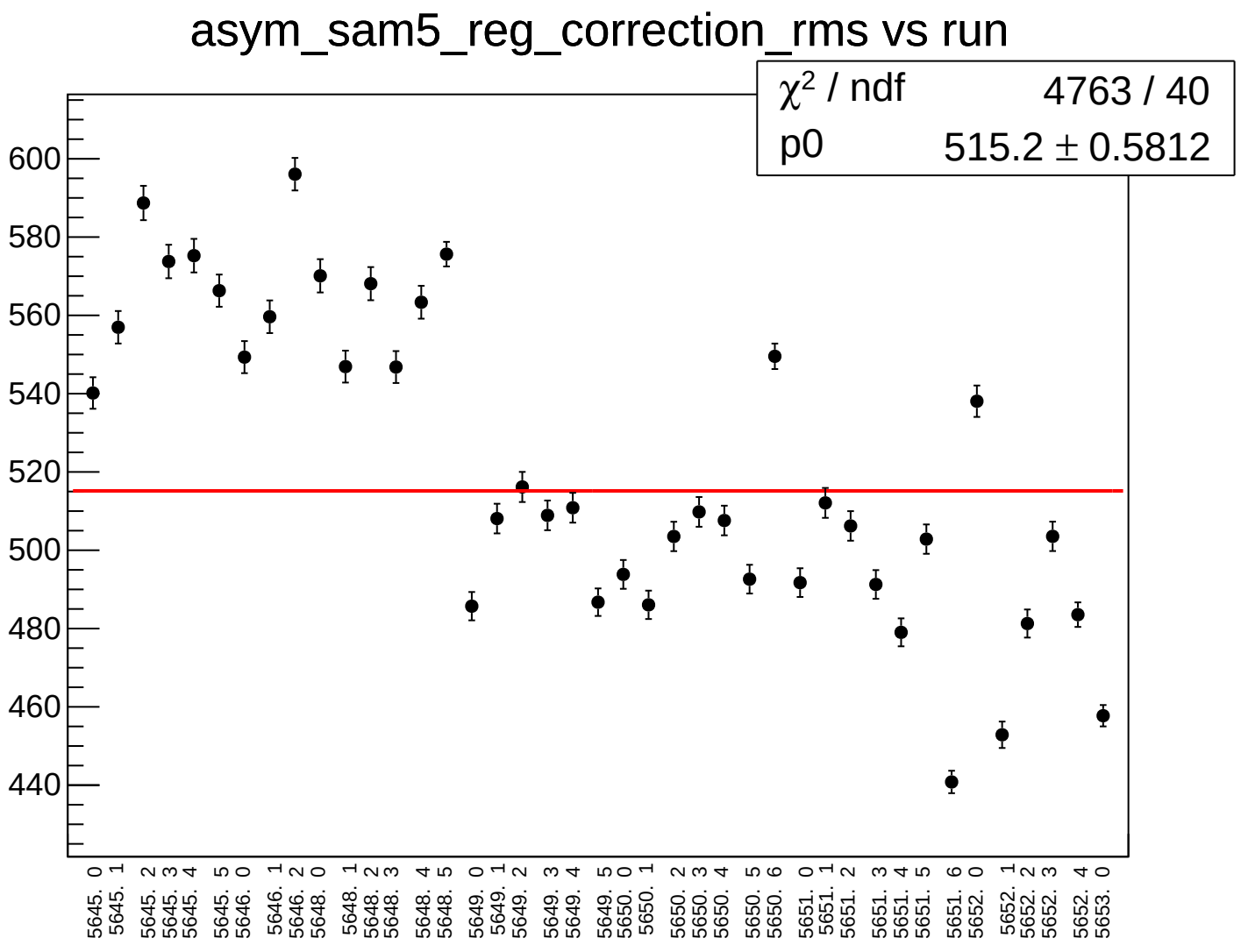

reg_asym_sam5_mean vs run
χ² / ndf 34.27 / 40
p0 84.09 ± 134.4
pull
Entries 41
Mean 85.86
Std Dev 0

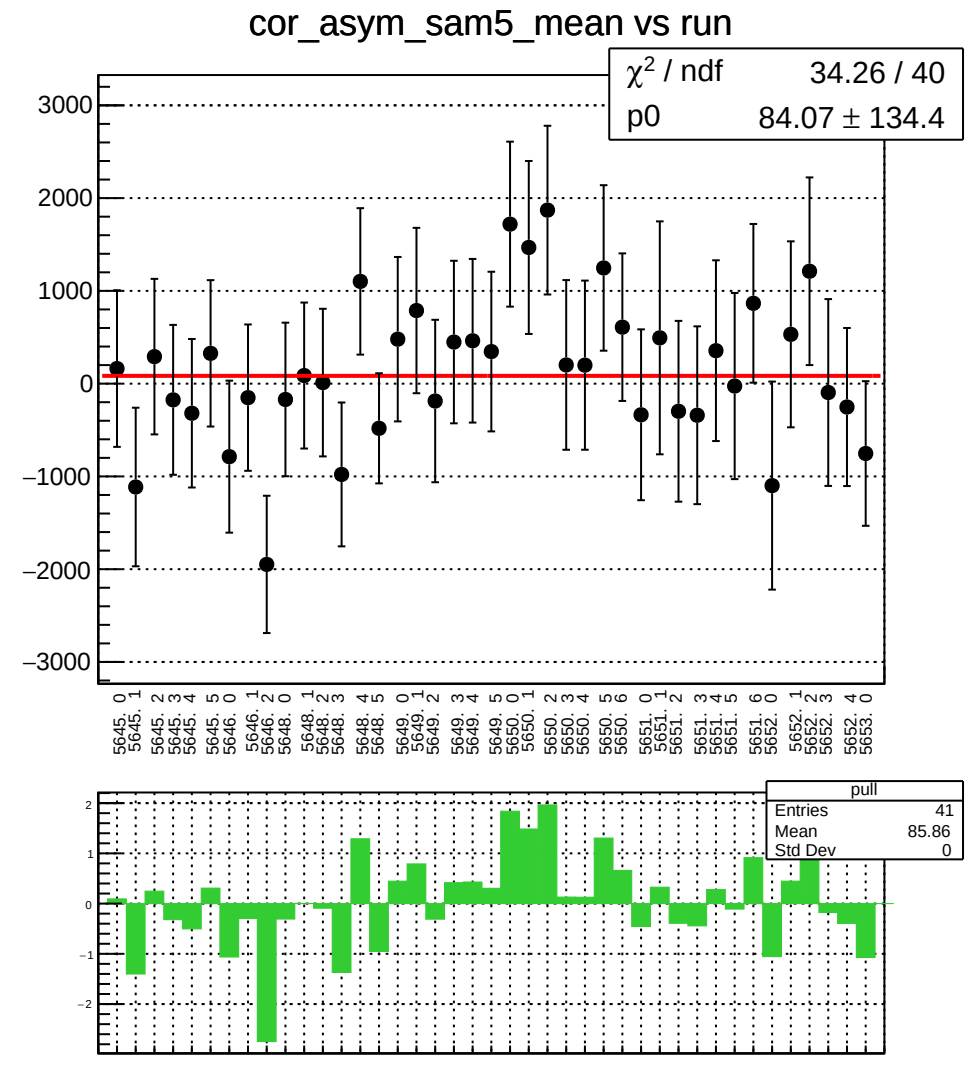

pull1D
Entries 41
Mean 0.03531
Std Dev 0.9135

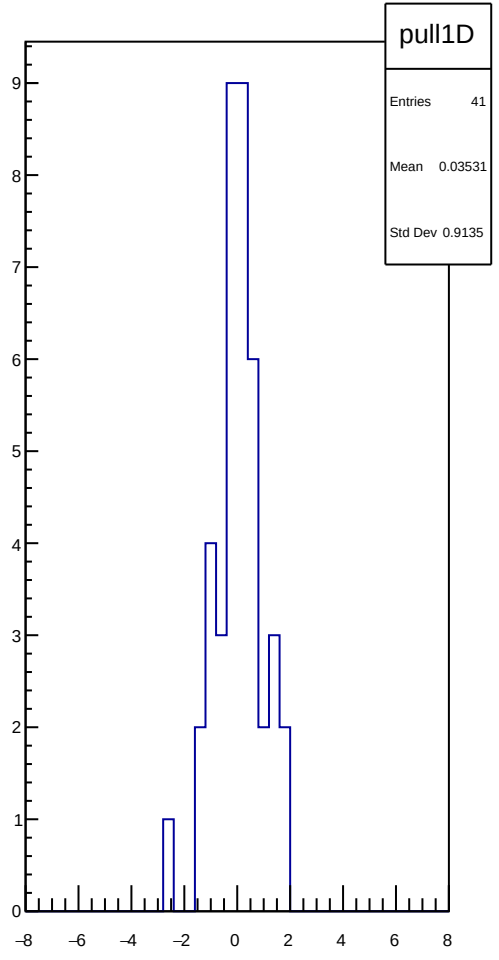

reg_asym_sam5_rms vs run
χ² / ndf 7834 / 40
p0 84.06 ± 0.09503
120
110
100
90
80
70
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

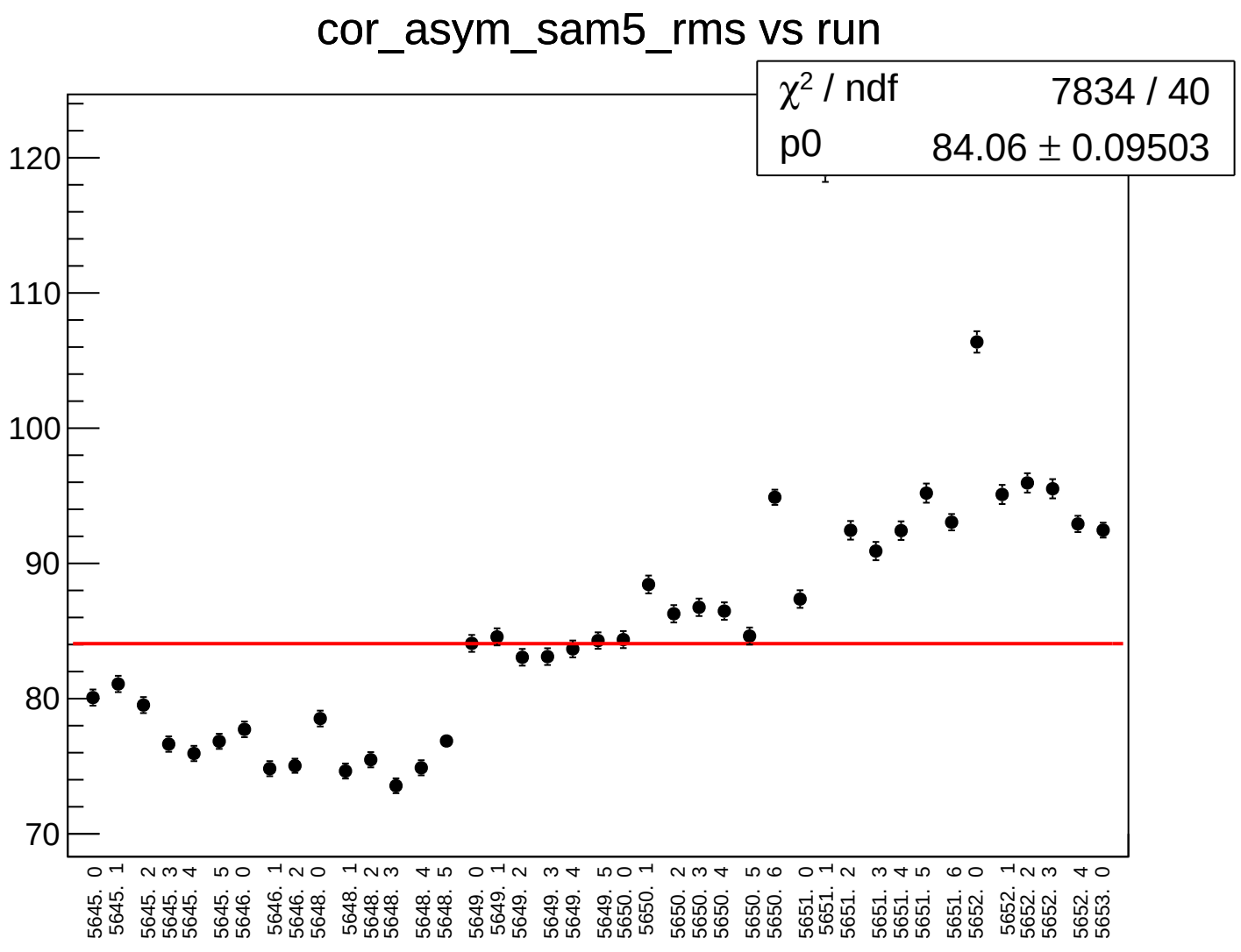

asym_sam5_reg_correction_mean vs run
χ² / ndf 43.43 / 40
p0 23.12 ± 822
pull
Entries 41
Mean −59.05
Std Dev 0


pull1D
Entries 41
Mean 0.03816
Std Dev 1.029


asym_sam5_reg_correction_rms vs run
χ² / ndf 4763 / 40
p0 515.2 ± 0.5812
600
580
560
540
520
500
480
460
440
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_sam5_mean vs run
χ² / ndf 34.26 / 40
p0 84.07 ± 134.4
pull
Entries 41
Mean 85.86
Std Dev 0


pull1D
Entries 41
Mean 0.03531
Std Dev 0.9135


cor_asym_sam5_rms vs run
χ² / ndf 7834 / 40
p0 84.06 ± 0.09503
120
110
100
90
80
70
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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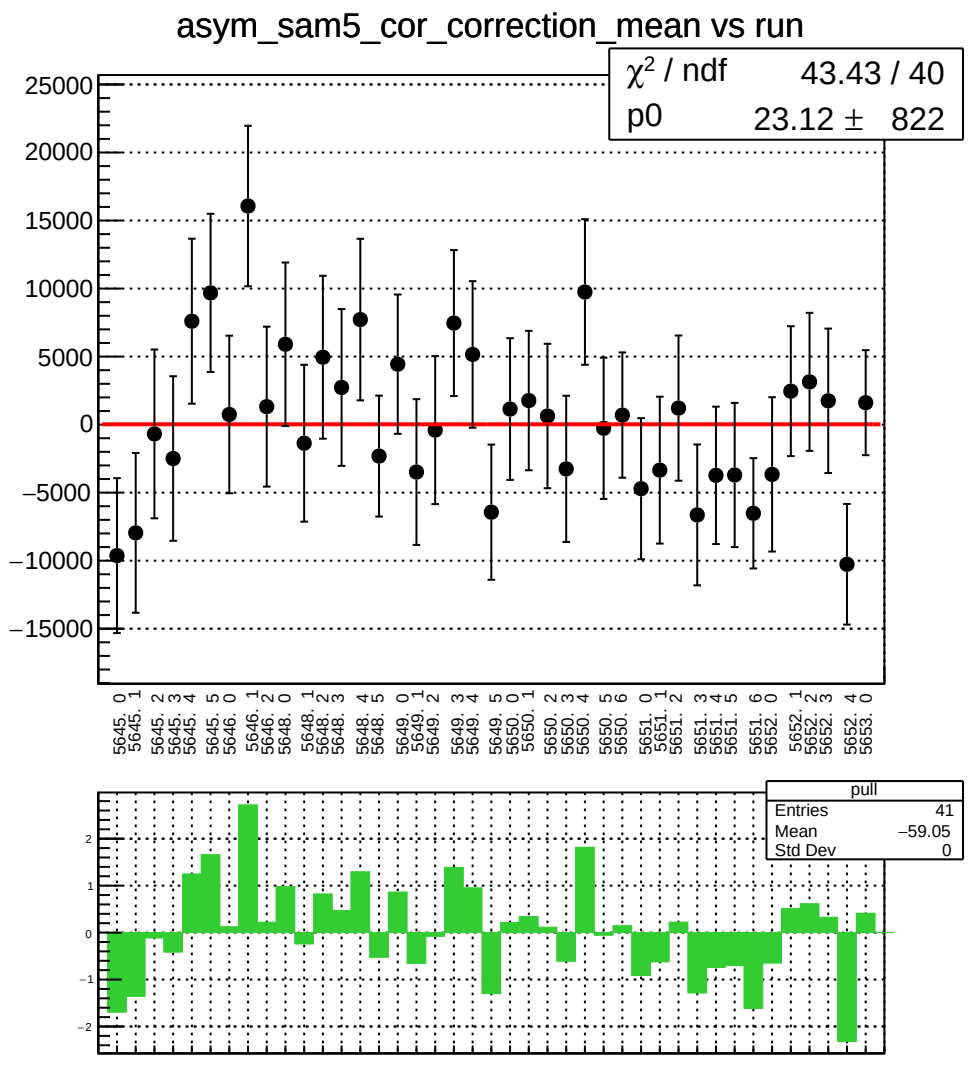
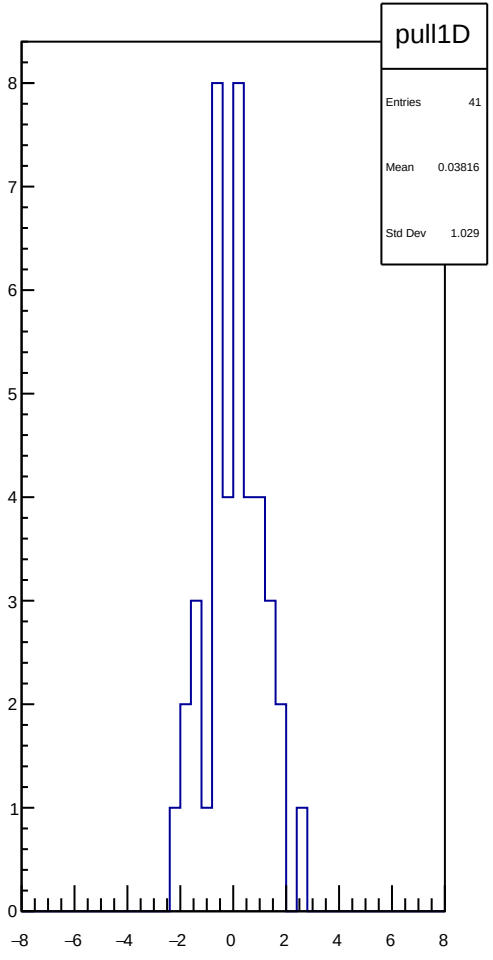
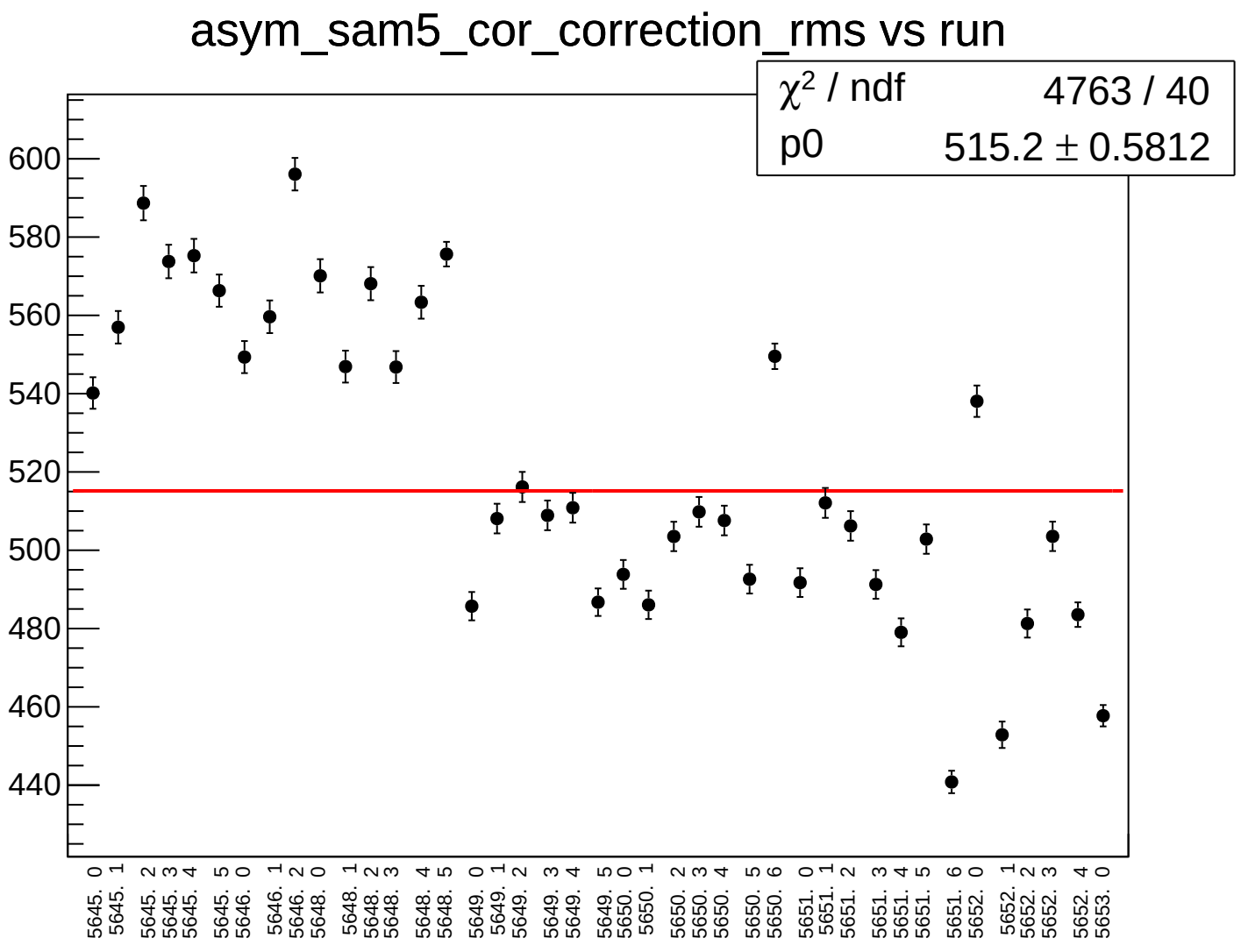
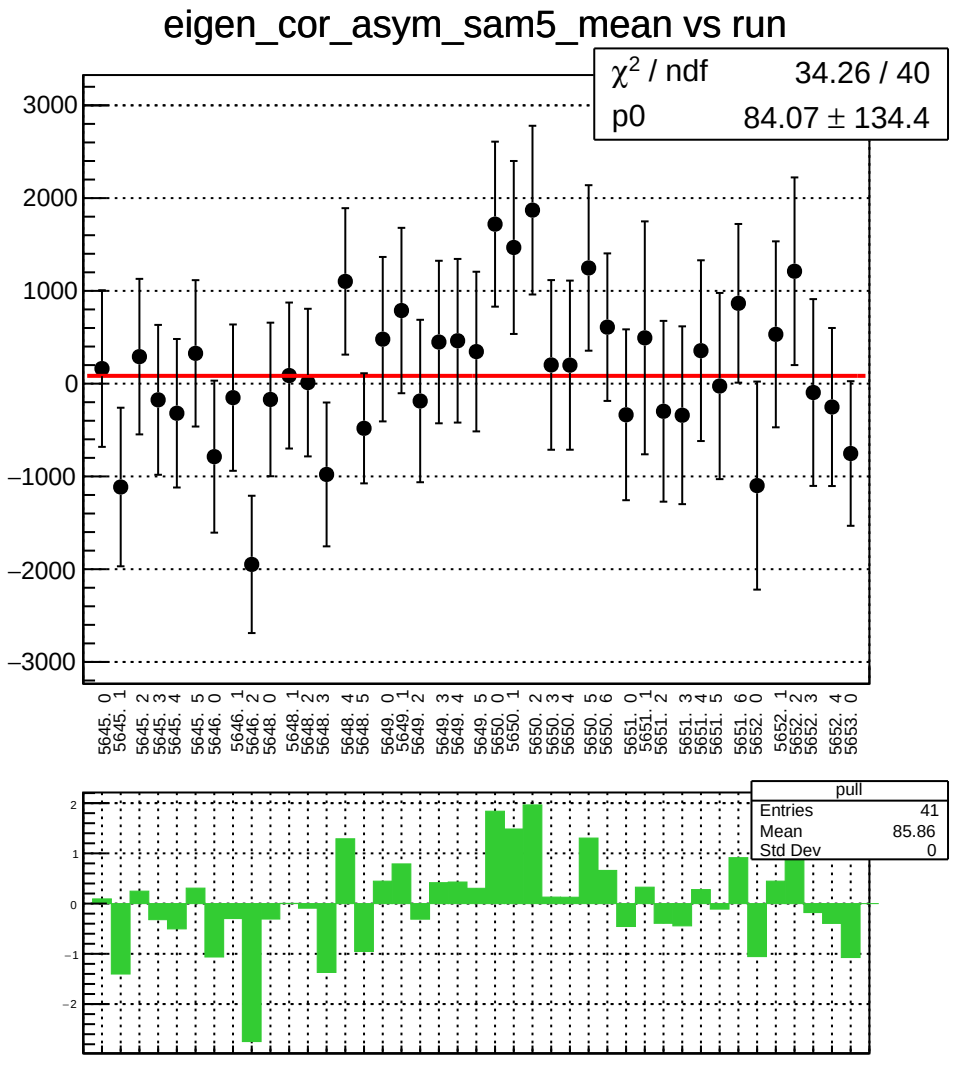
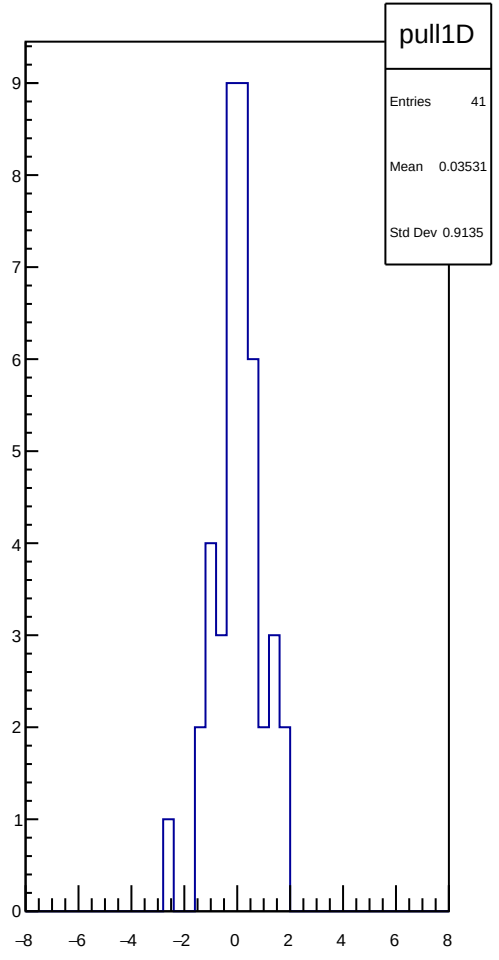
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

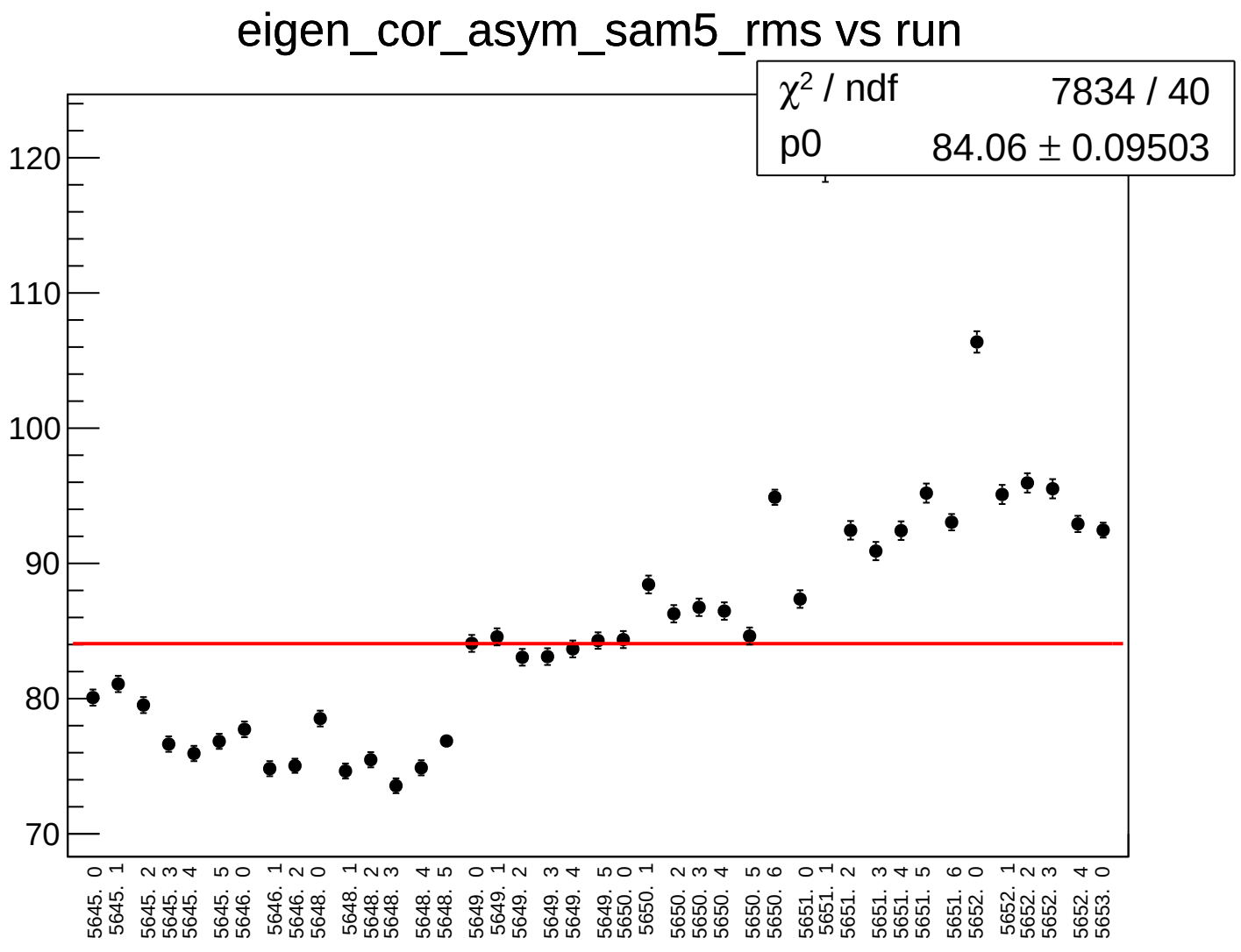

asym_sam5_cor_correction_mean vs run
χ² / ndf 43.43 / 40
p0 23.12 ± 822
pull
Entries 41
Mean −59.05
Std Dev 0

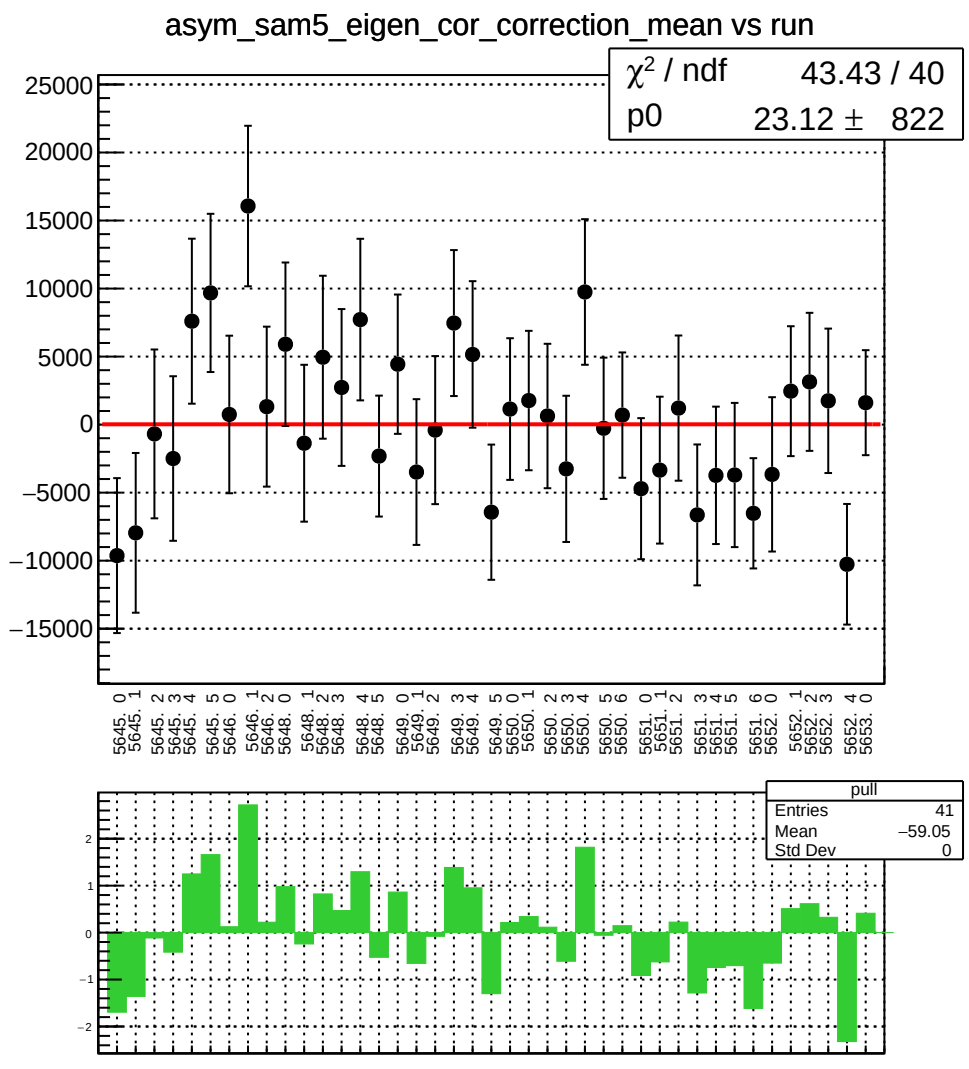

pull1D
Entries 41
Mean 0.03816
Std Dev 1.029

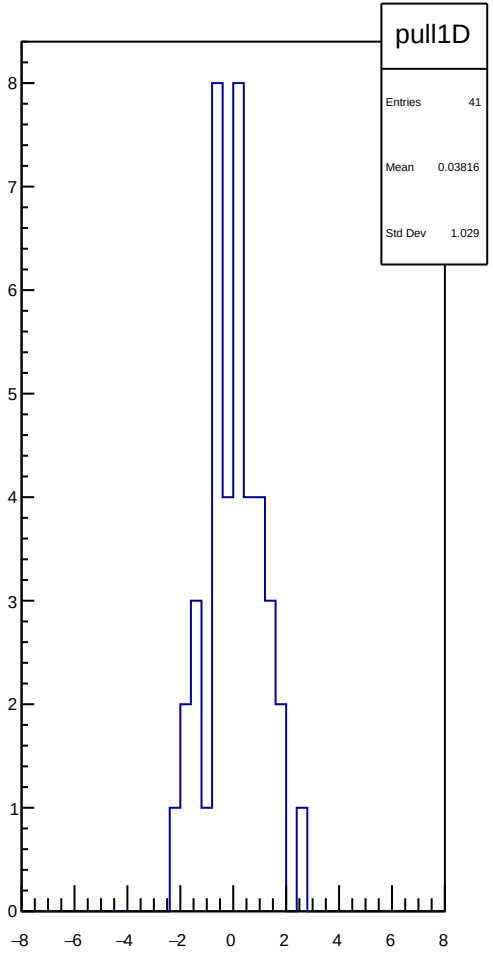

asym_sam5_cor_correction_rms vs run
χ² / ndf 4763 / 40
p0 515.2 ± 0.5812
600
580
560
540
520
500
480
460
440
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

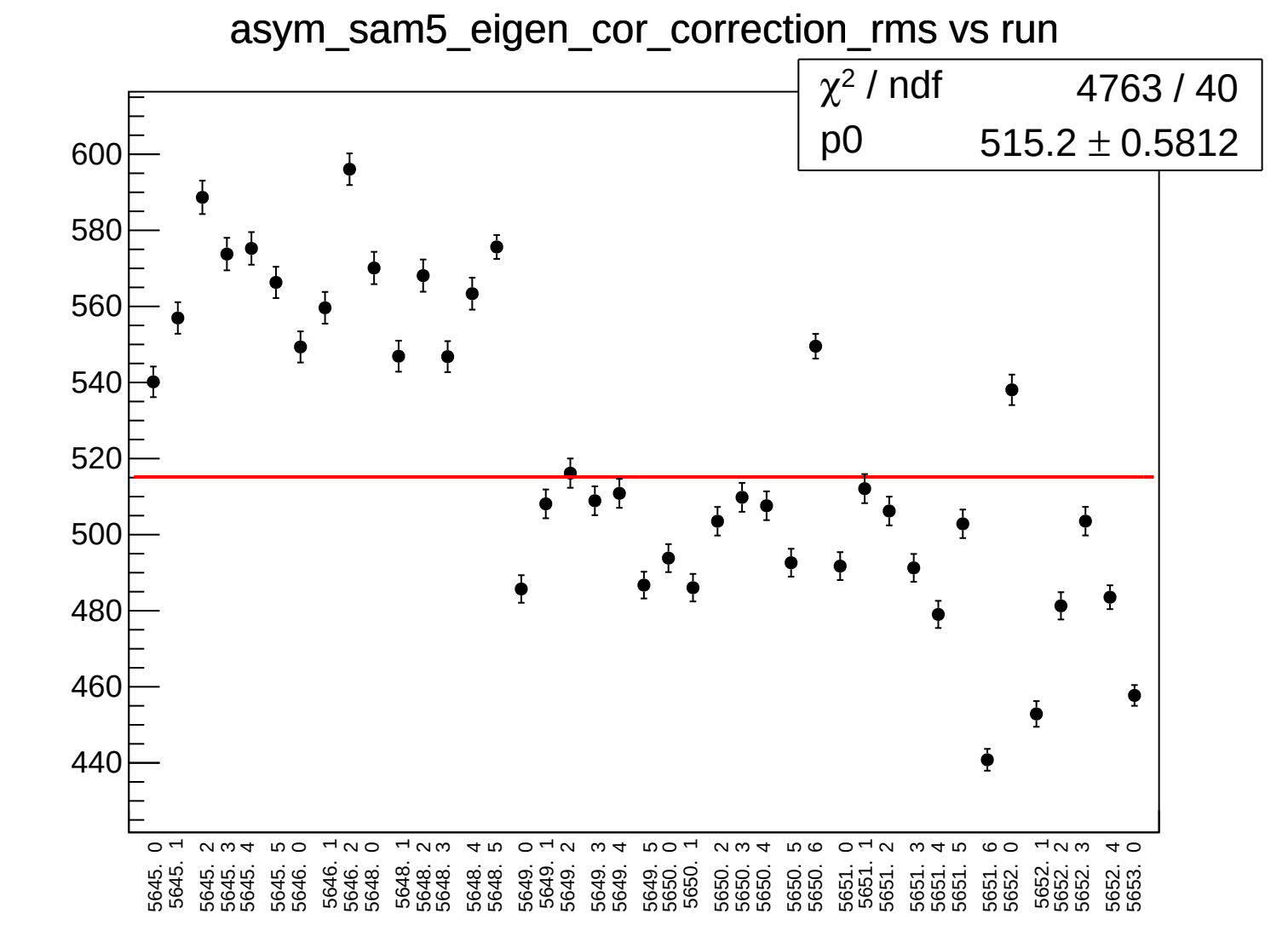

eigen_cor_asym_sam5_mean vs run
χ² / ndf 34.26 / 40
p0 84.07 ± 134.4
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 85.86
Std Dev 0
2
1
0
−1
−2

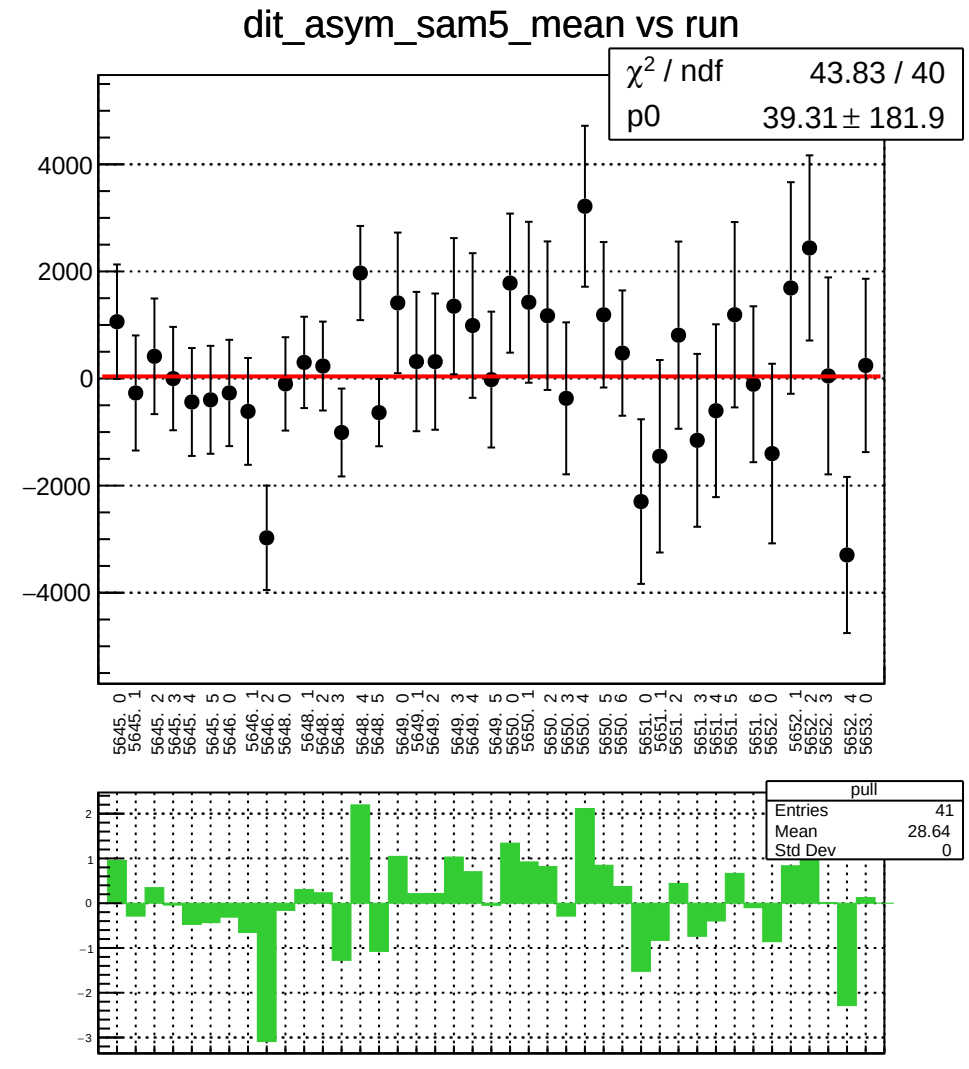

pull1D
Entries 41
Mean 0.03531
Std Dev 0.9135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

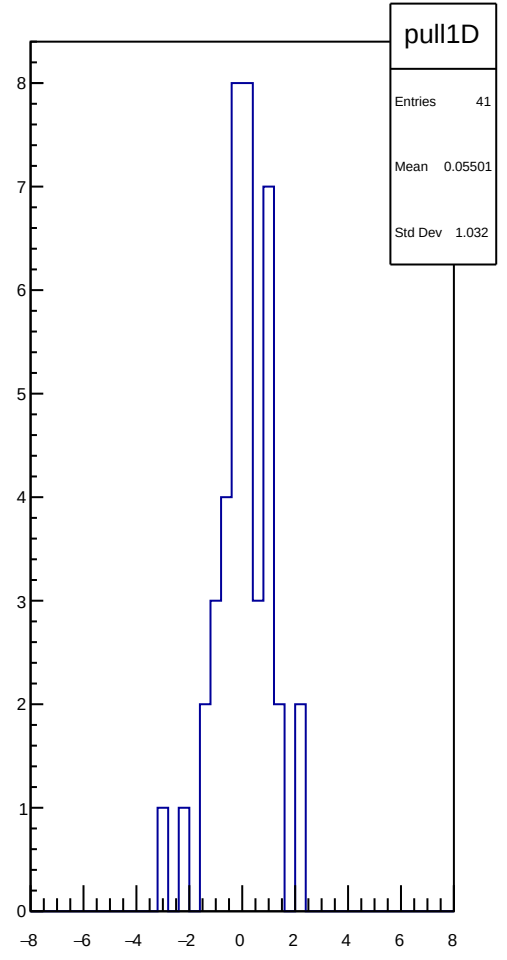

eigen_cor_asym_sam5_rms vs run
χ² / ndf 7834 / 40
p0 84.06 ± 0.09503
120
110
100
90
80
70
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

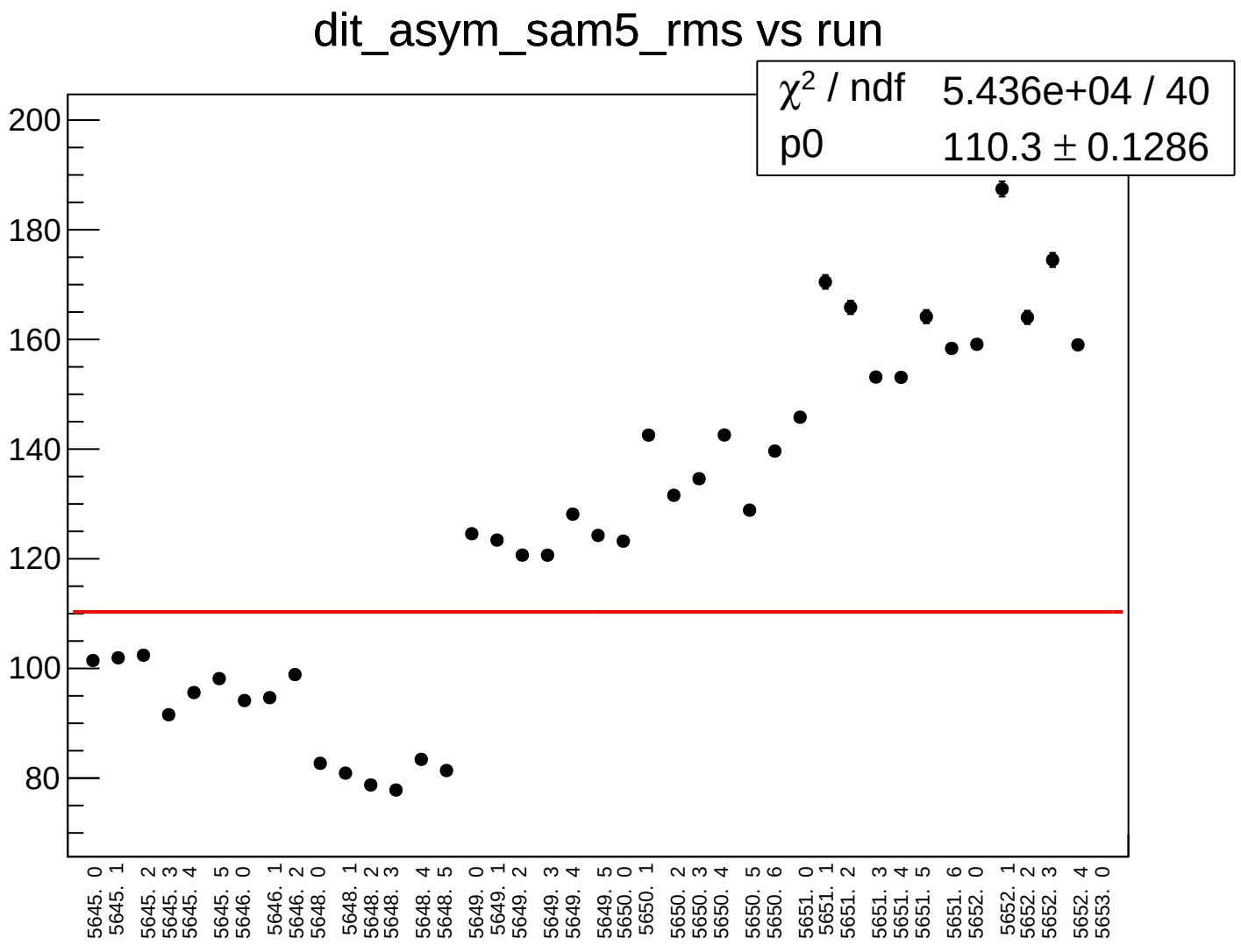

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 43.43 / 40
p0 23.12 ± 822
pull
Entries 41
Mean −59.05
Std Dev 0

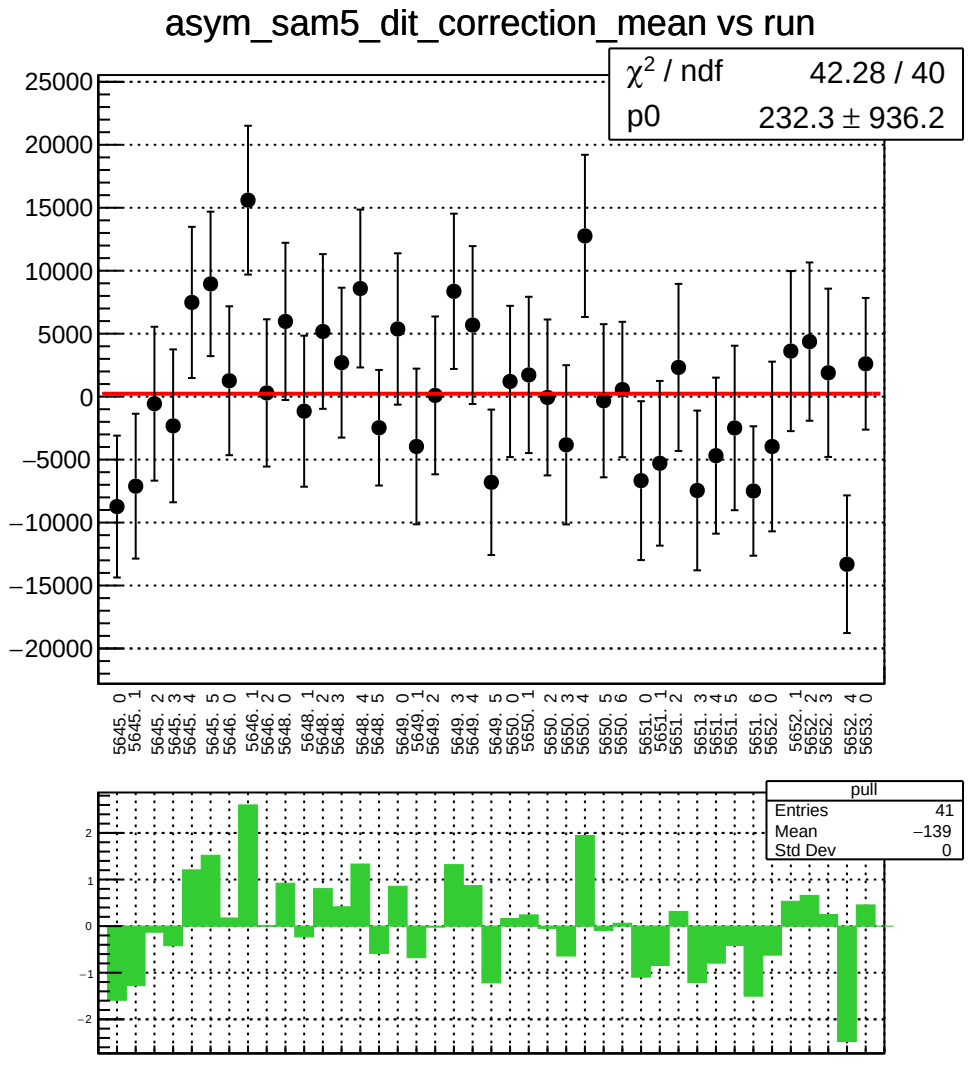

pull1D
Entries 41
Mean 0.03816
Std Dev 1.029

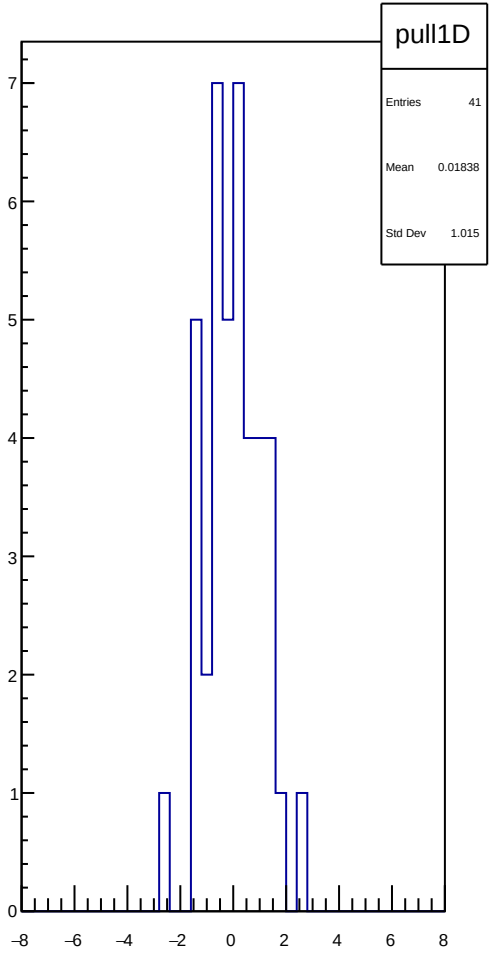

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4763 / 40
p0 515.2 ± 0.5812
600
580
560
540
520
500
480
460
440
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

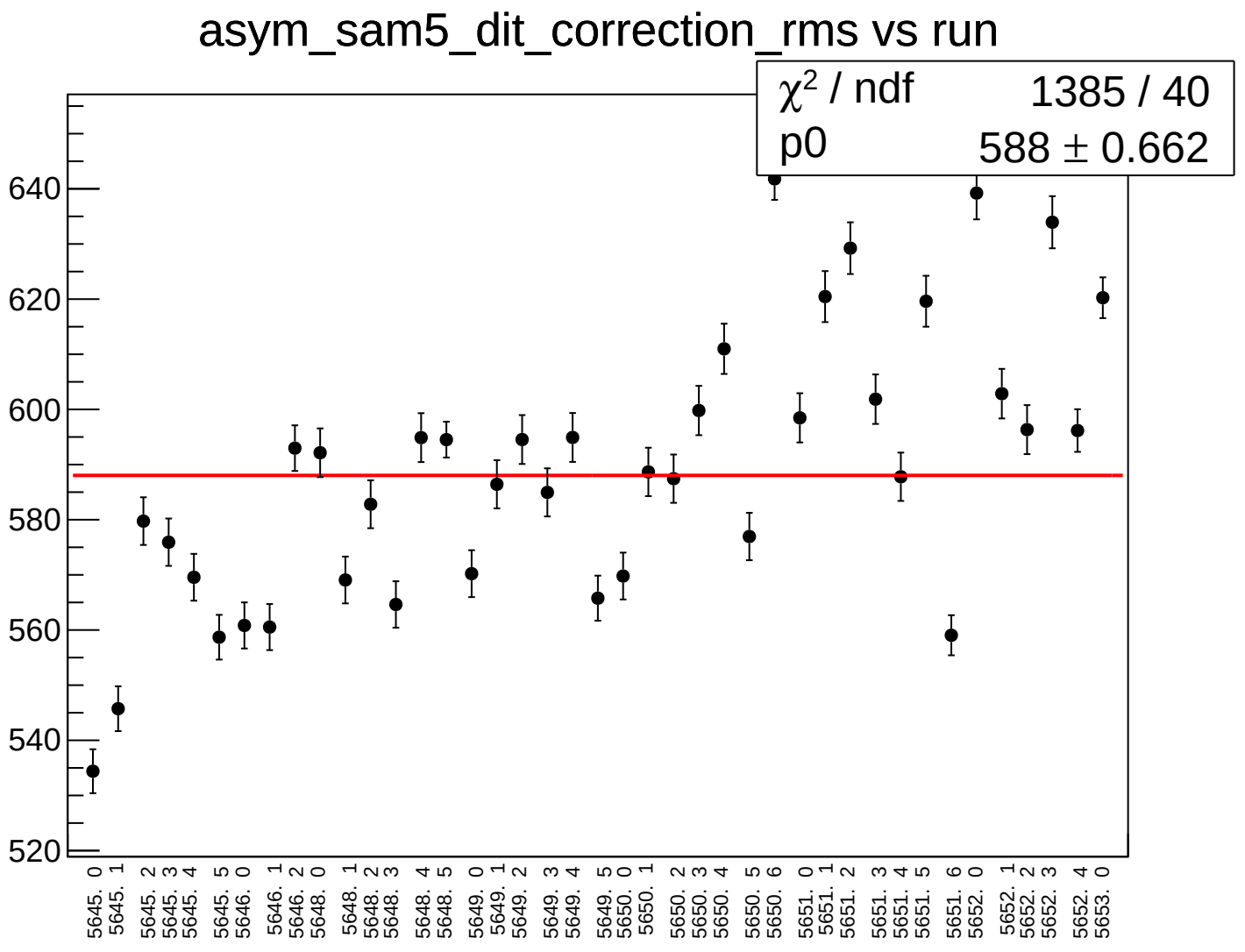

dit_asym_sam5_mean vs run
χ² / ndf 43.83 / 40
p0 39.31 ± 181.9
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.64
Std Dev 0
2
1
0
−1
−2
−3

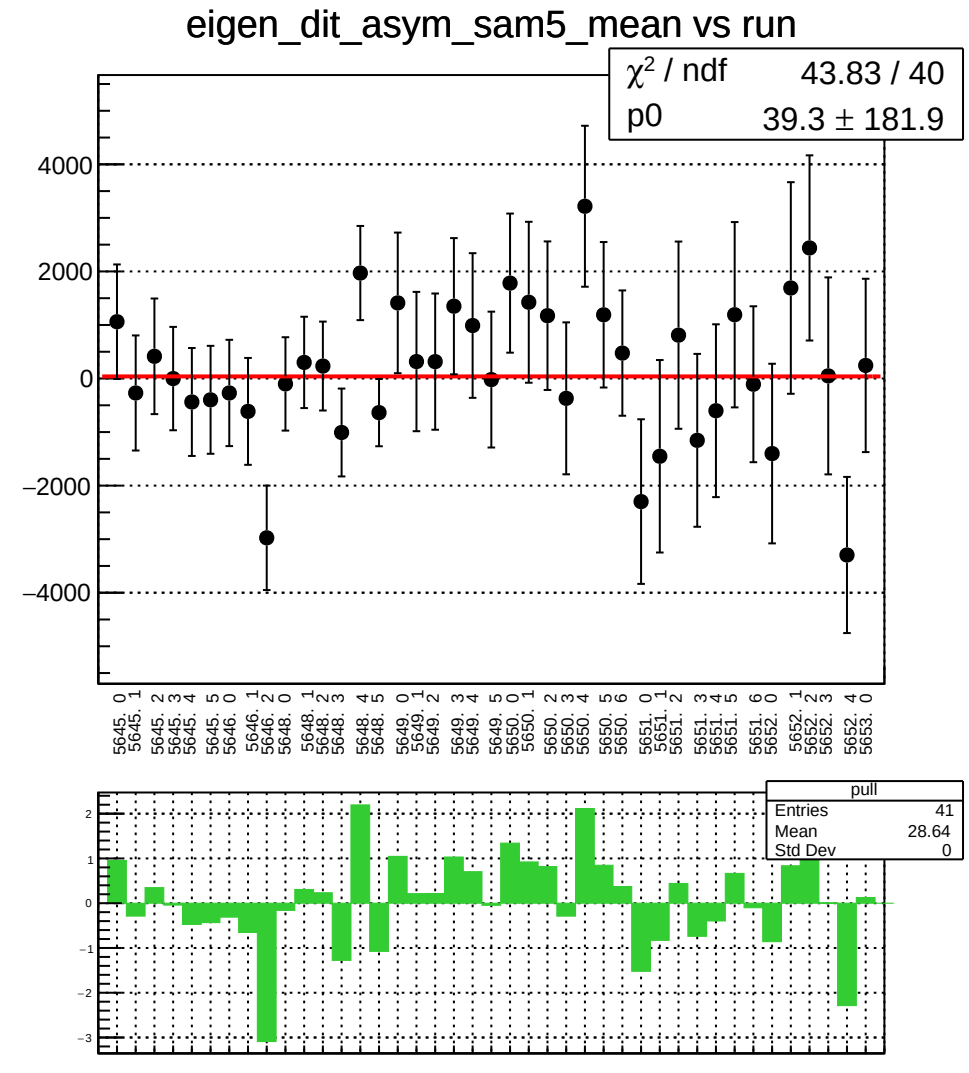

pull1D
Entries 41
Mean 0.05501
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

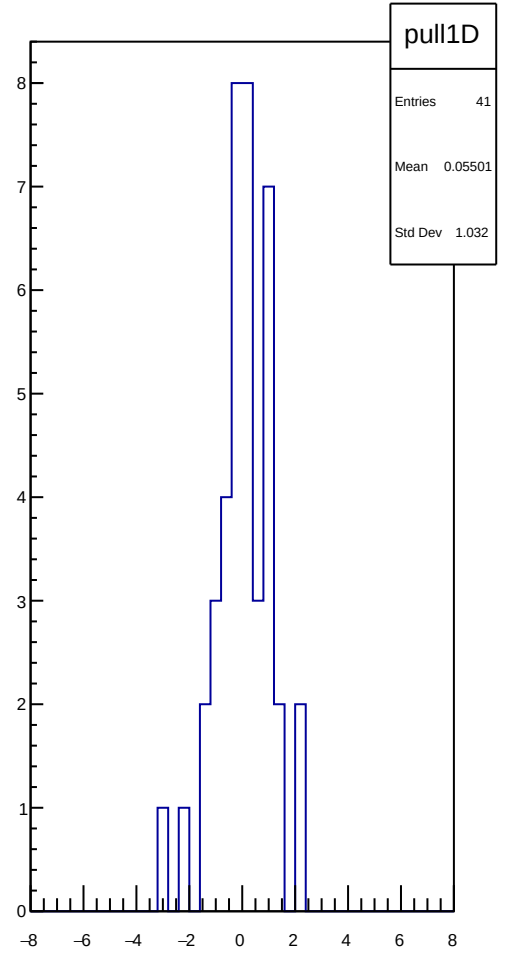

dit_asym_sam5_rms vs run
χ² / ndf 5.436e+04 / 40
p0 110.3 ± 0.1286
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

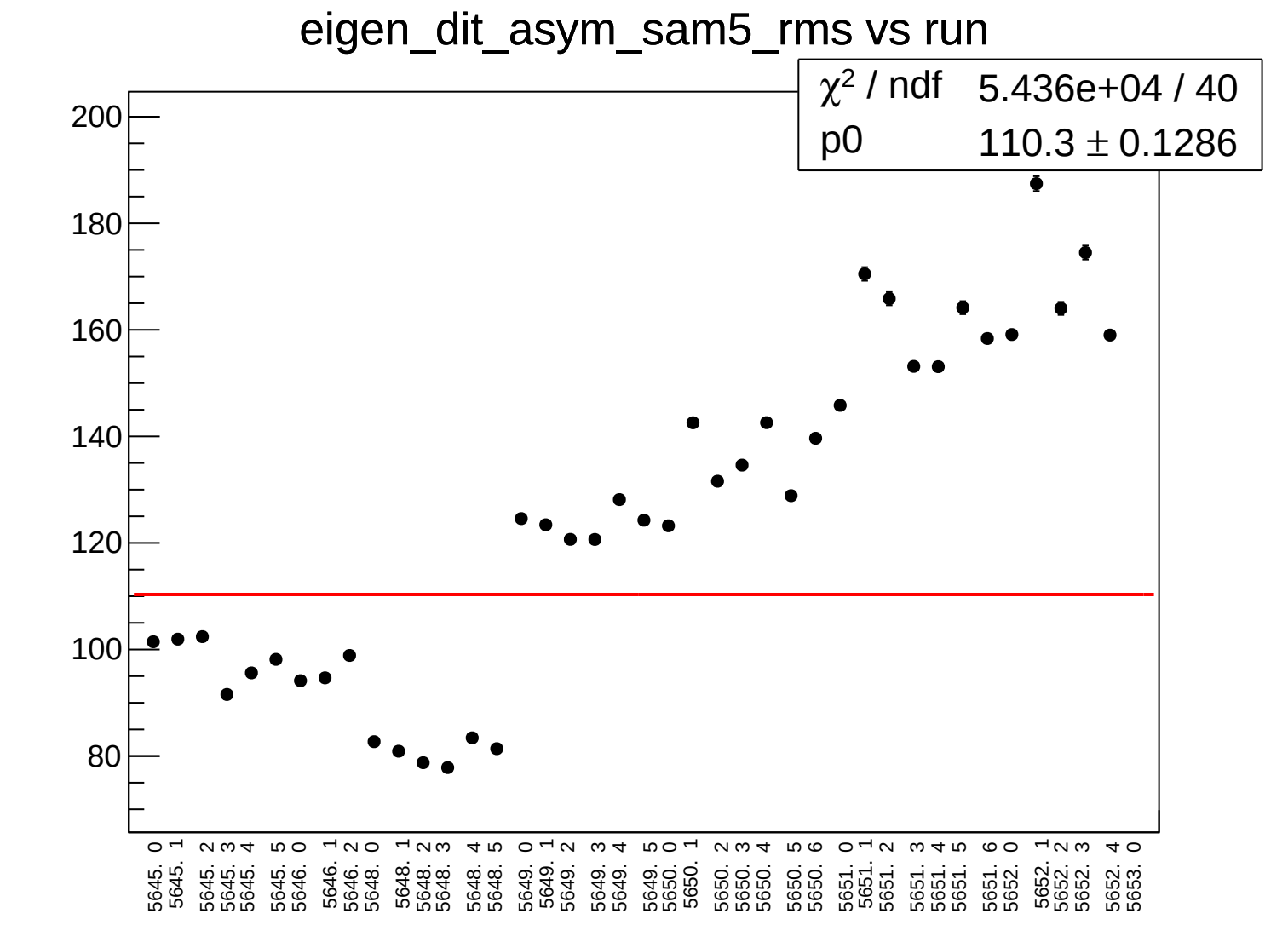

asym_sam5_dit_correction_mean vs run
χ² / ndf 42.28 / 40
p0 232.3 ± 936.2
pull
Entries 41
Mean −139
Std Dev 0

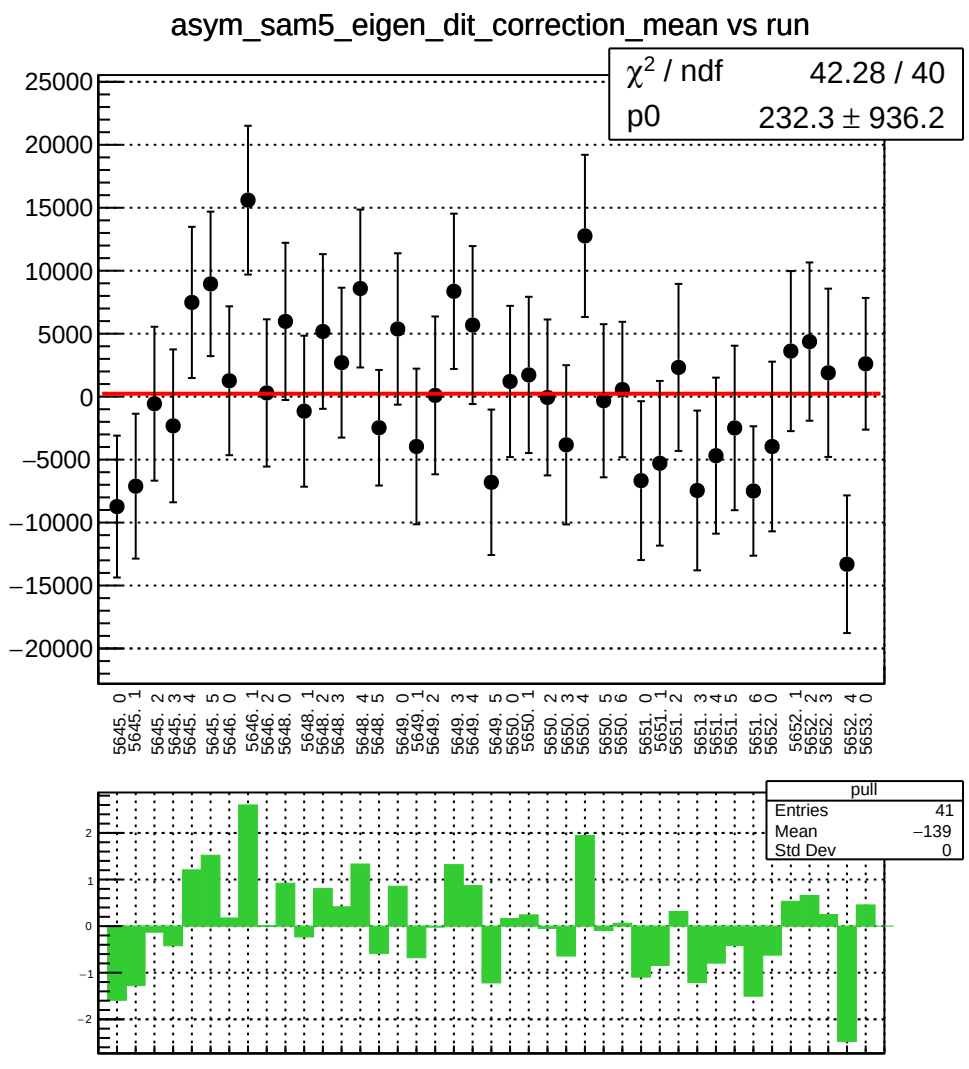

pull1D
Entries 41
Mean 0.01838
Std Dev 1.015

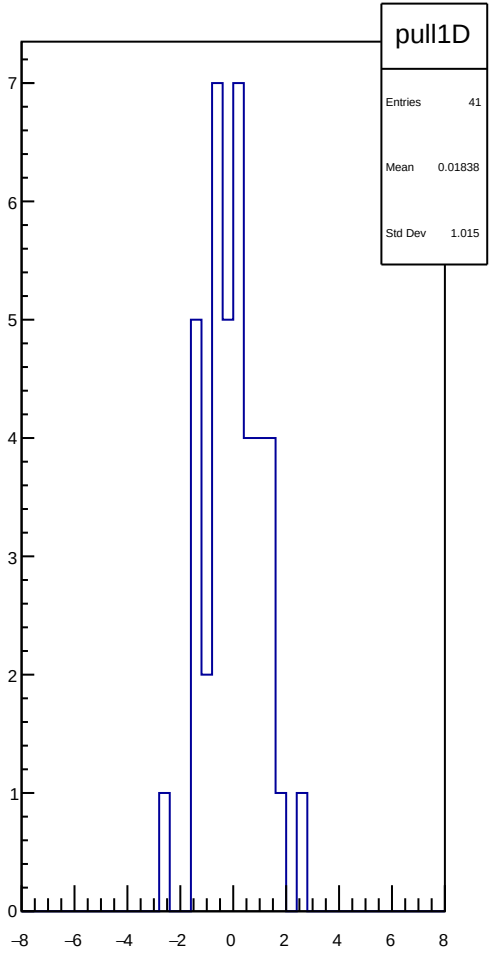

asym_sam5_dit_correction_rms vs run
χ² / ndf 1385 / 40
p0 588 ± 0.662
640
620
600
580
560
540
520
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

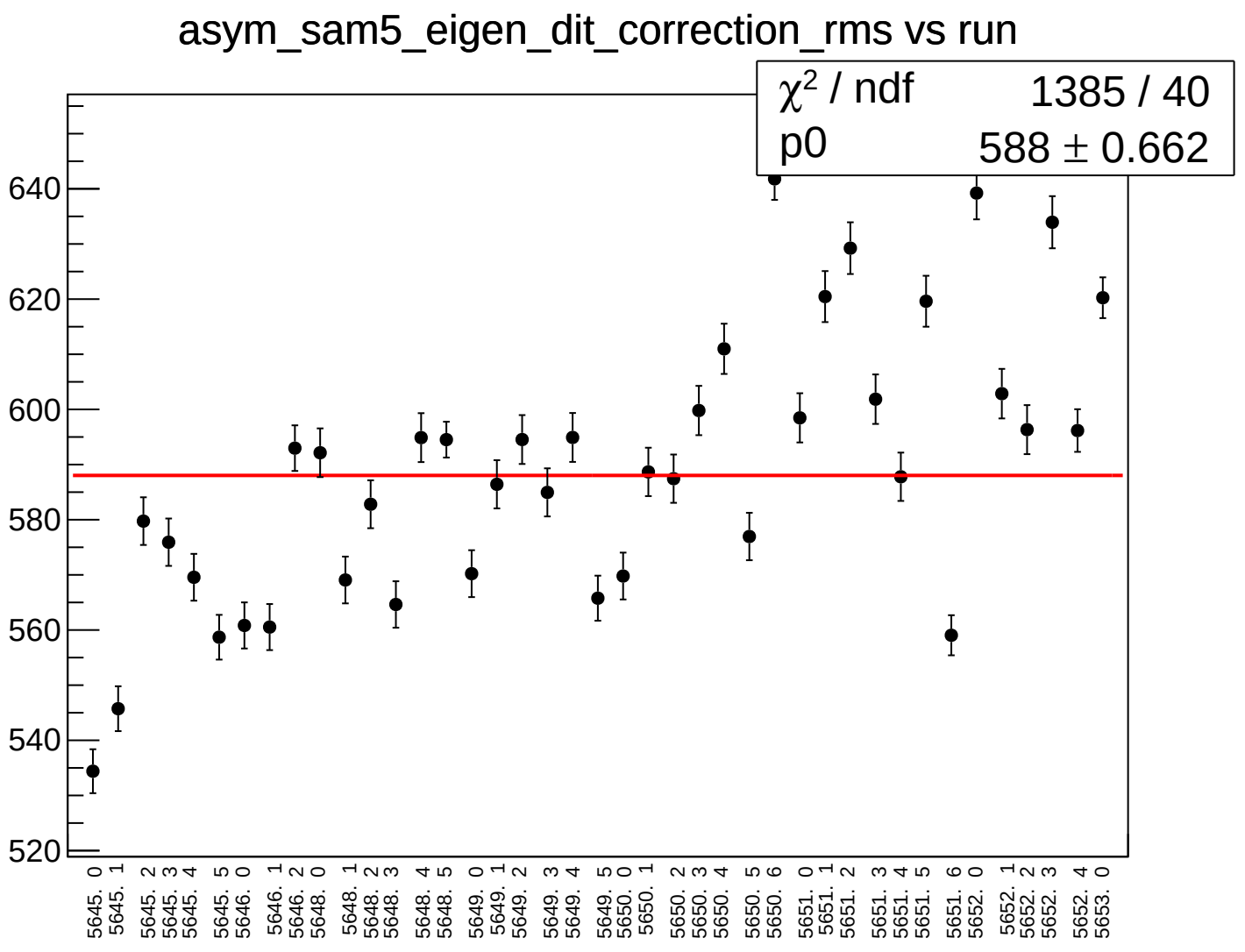

eigen_dit_asym_sam5_mean vs run
χ² / ndf 43.83 / 40
p0 39.3 ± 181.9
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.64
Std Dev 0
2
1
0
−1
−2
−3

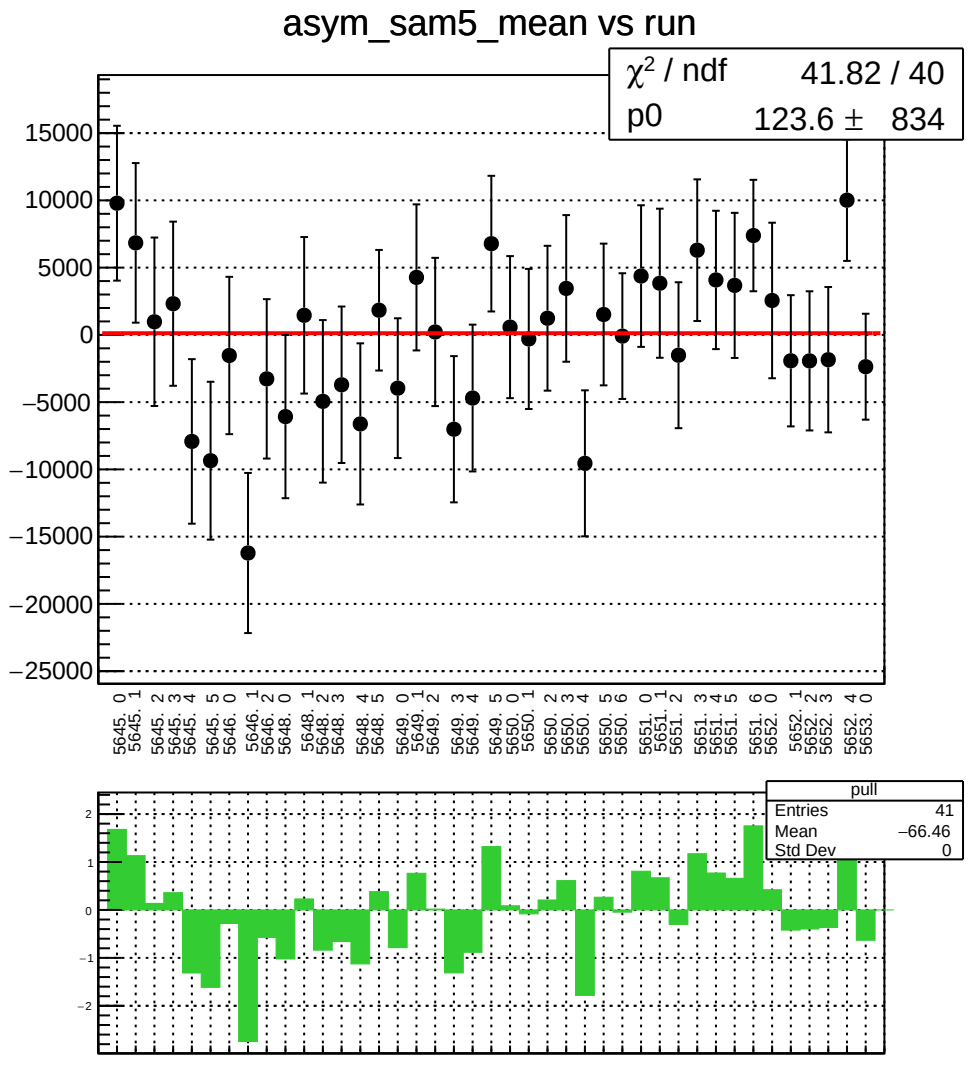

pull1D
Entries 41
Mean 0.05501
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

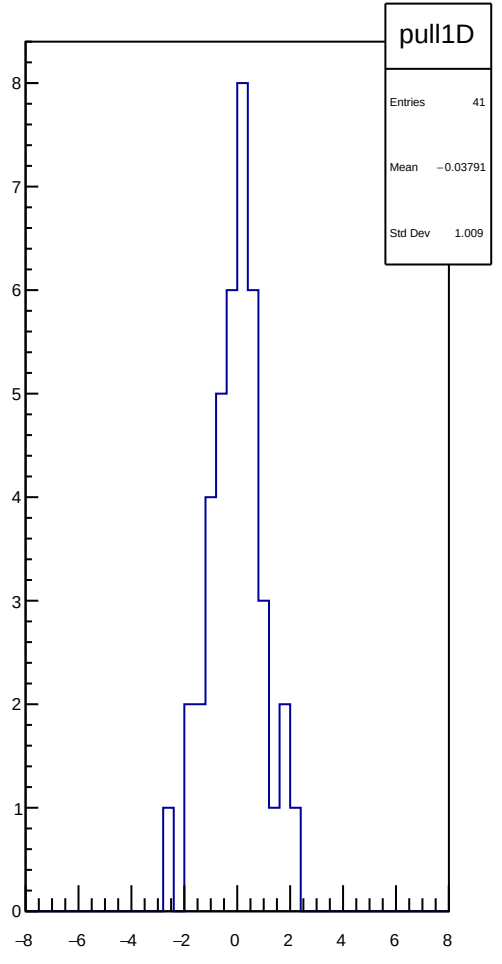

eigen_dit_asym_sam5_rms vs run
χ² / ndf 5.436e+04 / 40
p0 110.3 ± 0.1286
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

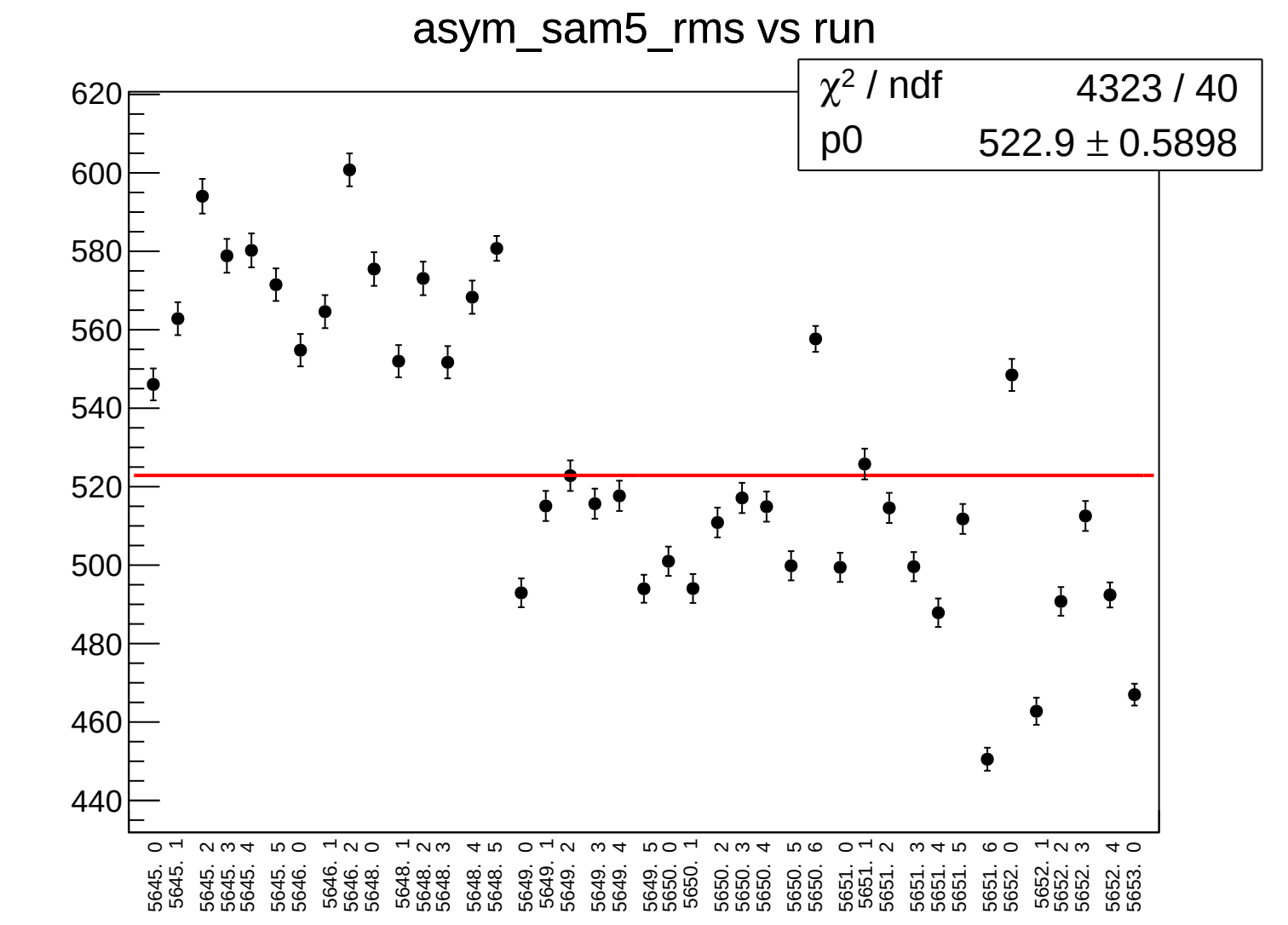

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 42.28 / 40
p0 232.3 ± 936.2
pull
Entries 41
Mean −139
Std Dev 0

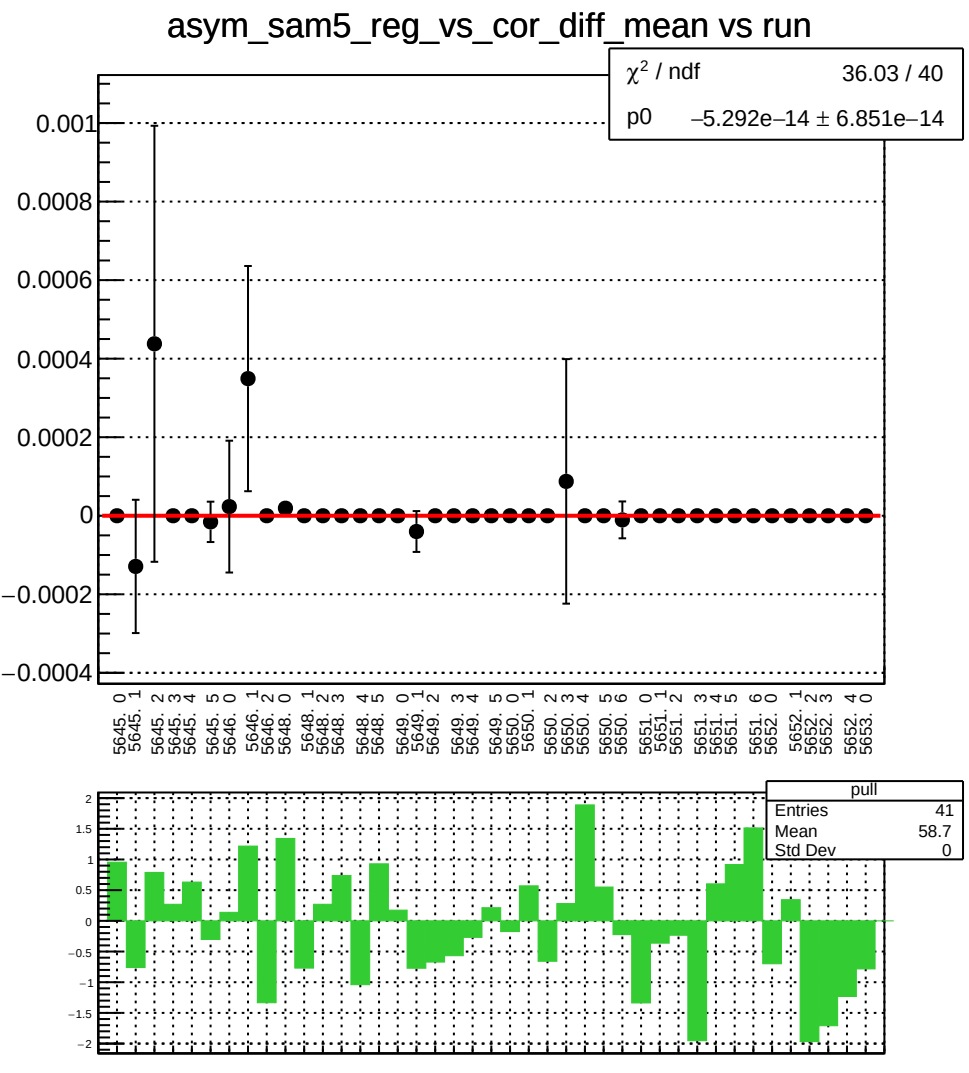

pull1D
Entries 41
Mean 0.01838
Std Dev 1.015

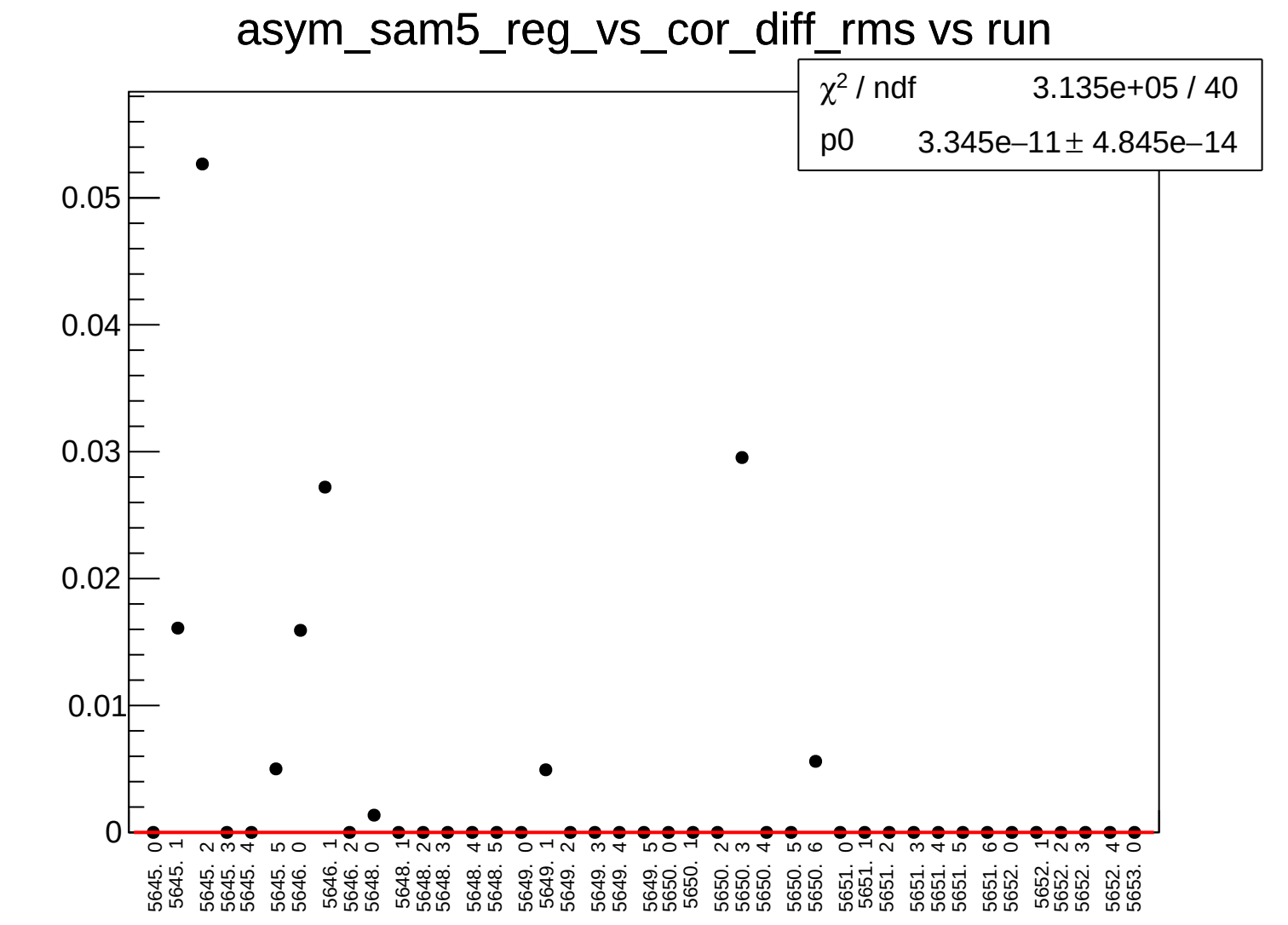

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1385 / 40
p0 588 ± 0.662
640
620
600
580
560
540
520
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

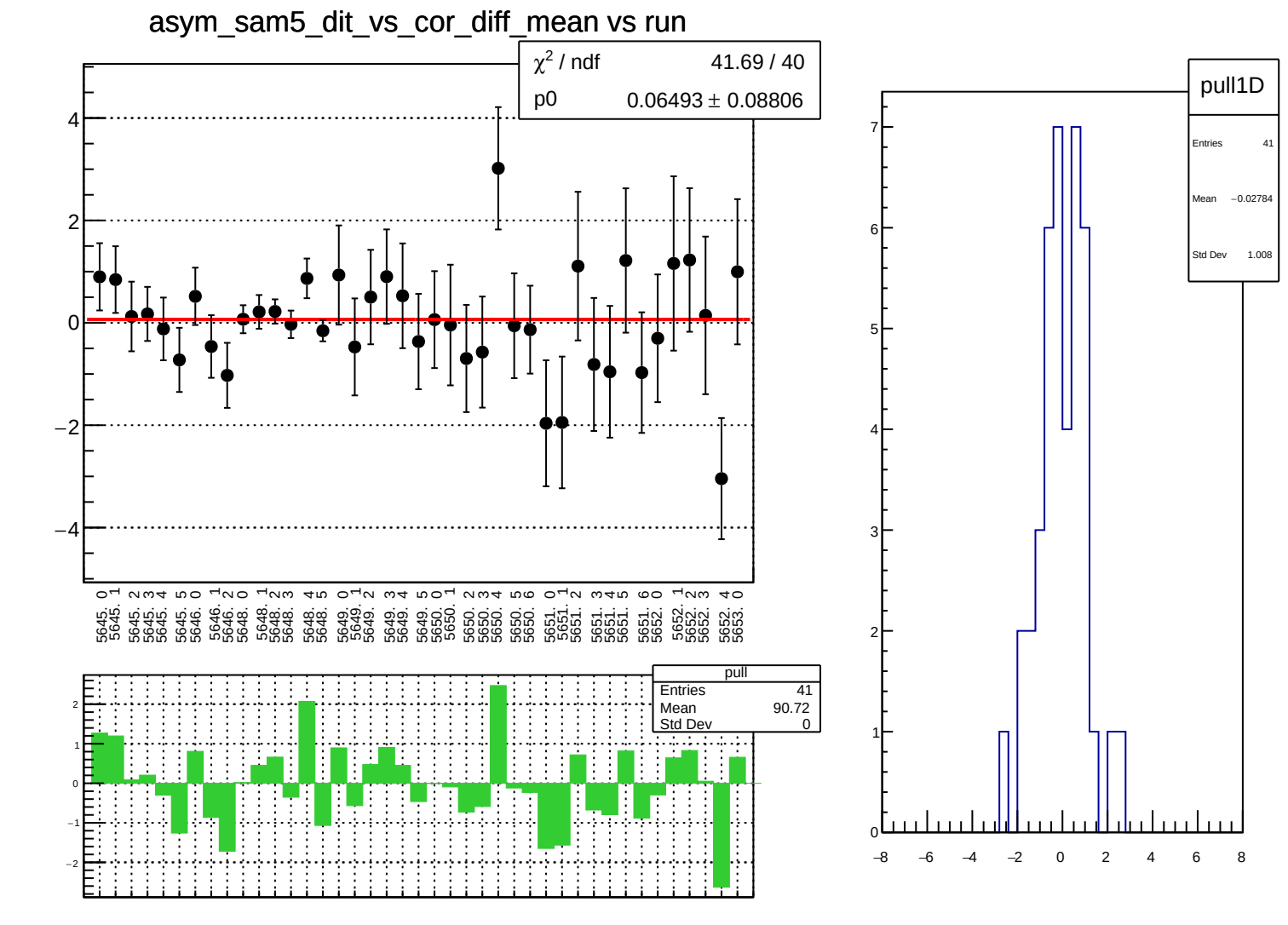

asym_sam5_mean vs run
χ² / ndf 41.82 / 40
p0 123.6 ± 834
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −66.46
Std Dev 0
2
1
0
−1
−2

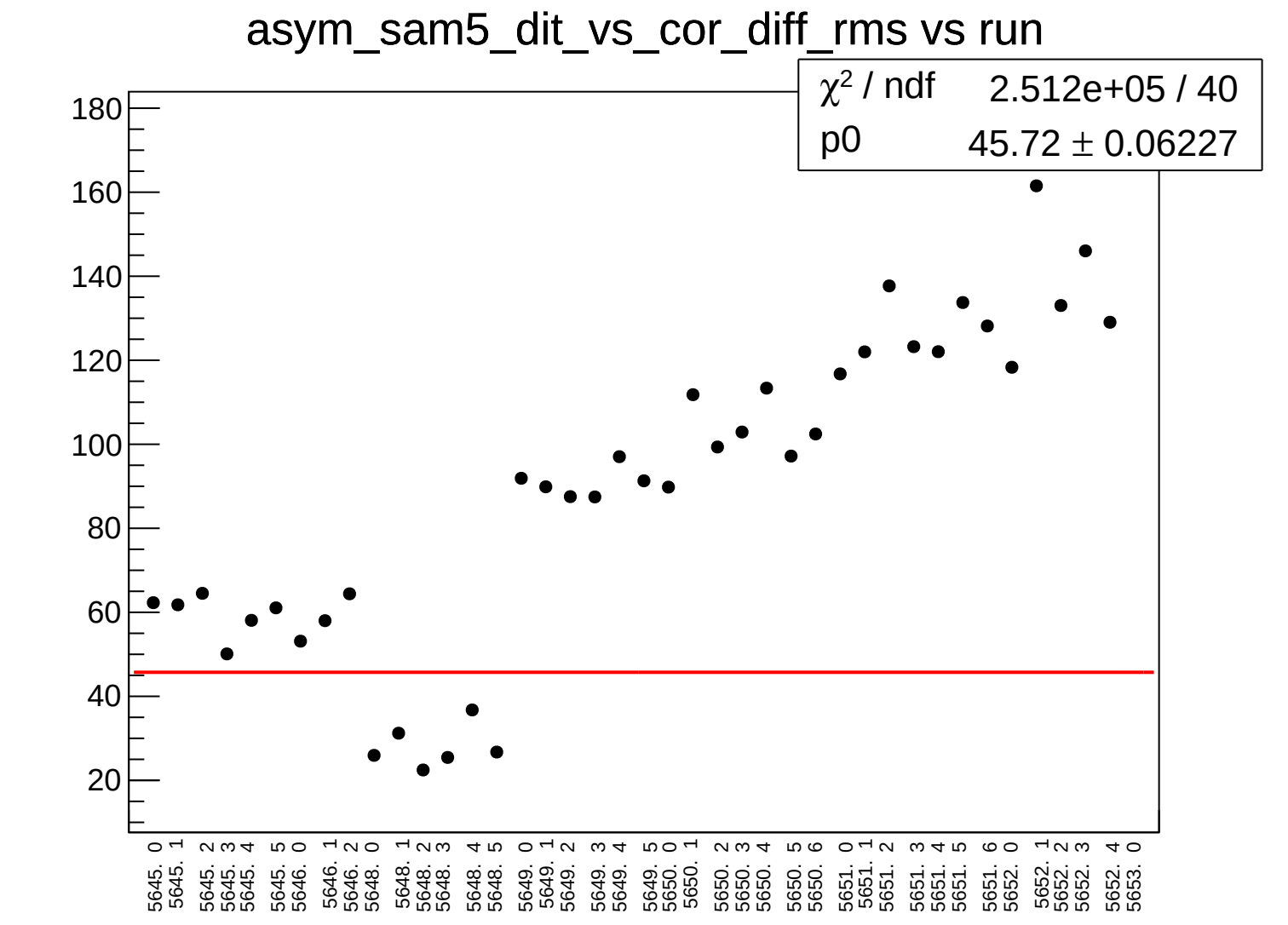

pull1D
Entries 41
Mean −0.03791
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

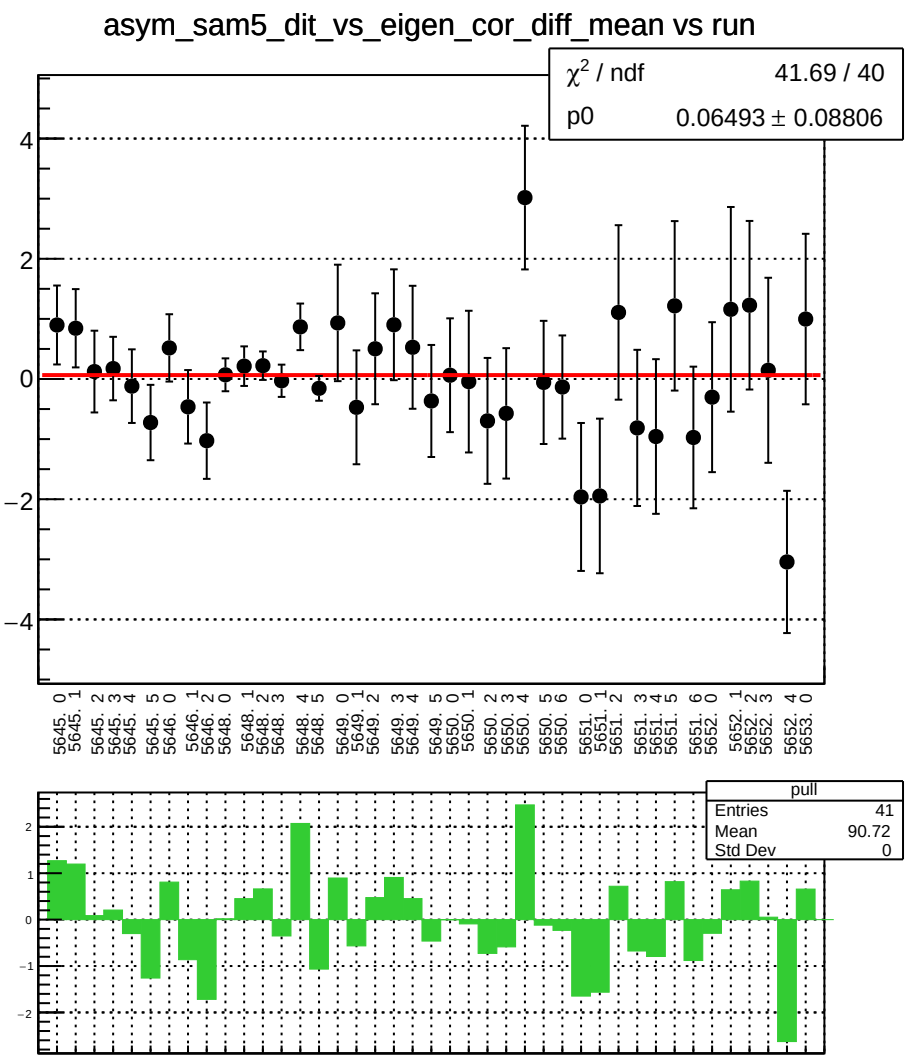

asym_sam5_rms vs run
χ² / ndf 4323 / 40
p0 522.9 ± 0.5898
620
600
580
560
540
520
500
480
460
440
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

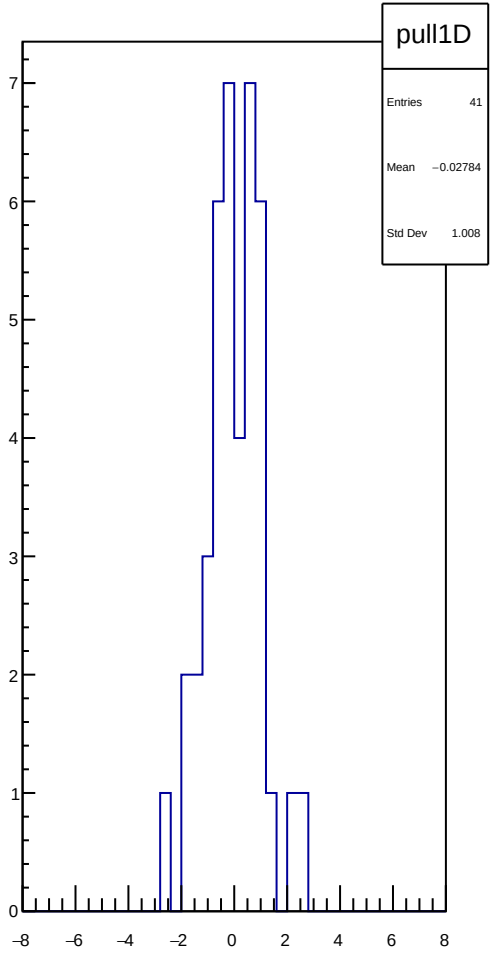

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 36.03 / 40
p0 −5.292e−14 ± 6.851e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 58.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.08506
Std Dev 0.9336
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

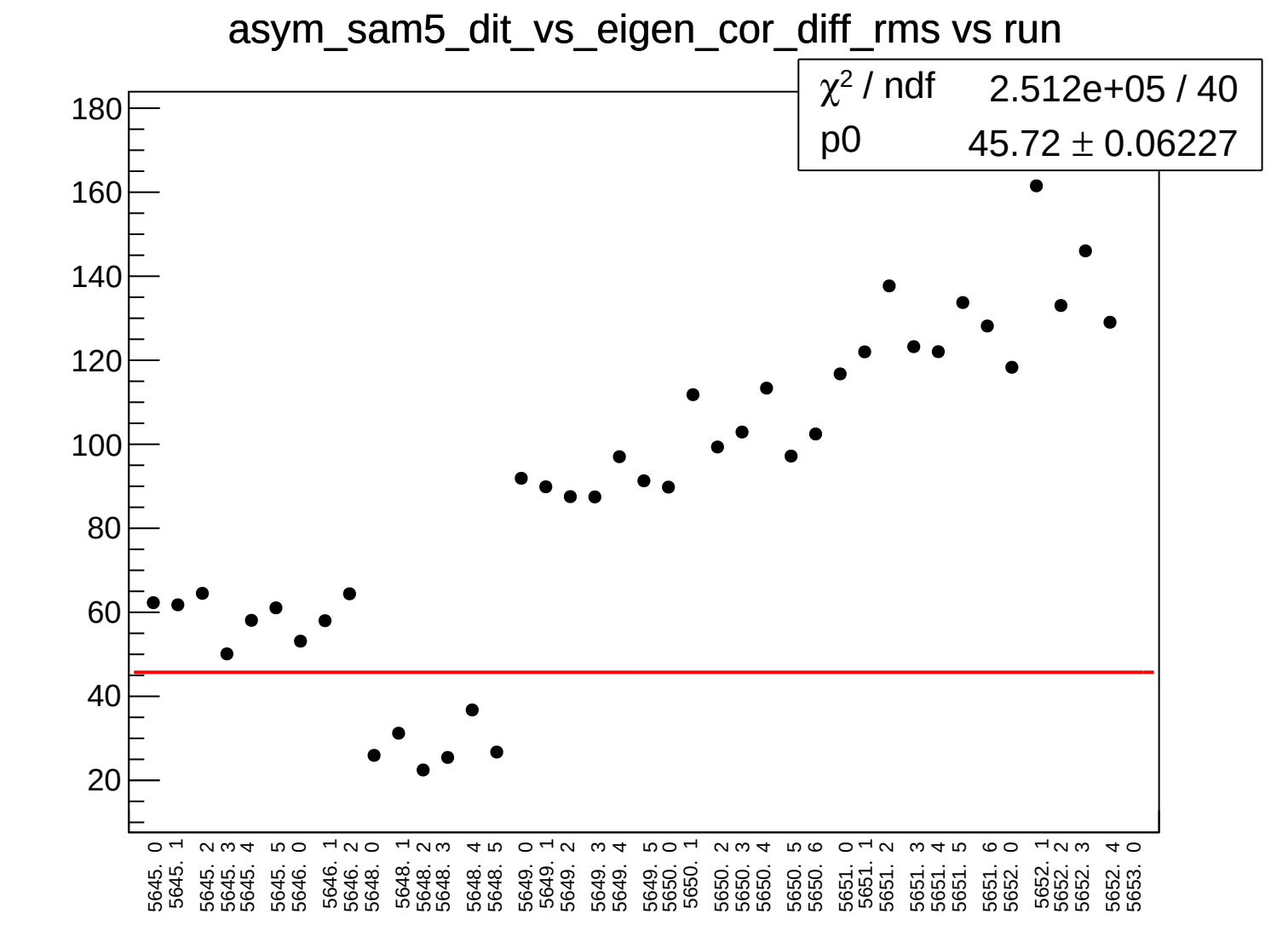

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 3.135e+05 / 40
p0 3.345e−11 ± 4.845e−14
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

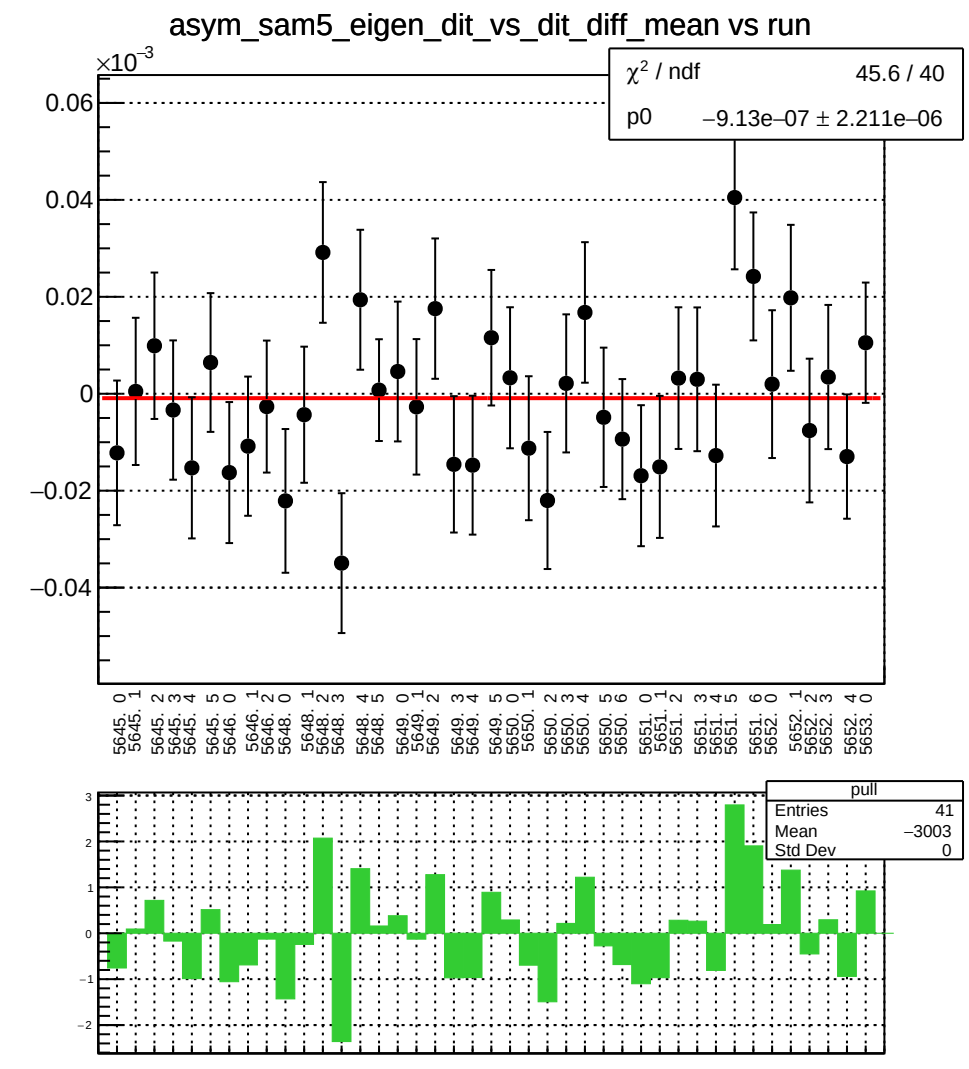

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 41.69 / 40
p0 0.06493 ± 0.08806
pull
Entries 41
Mean 90.72
Std Dev 0
pull1D
Entries 41
Mean −0.02784
Std Dev 1.008

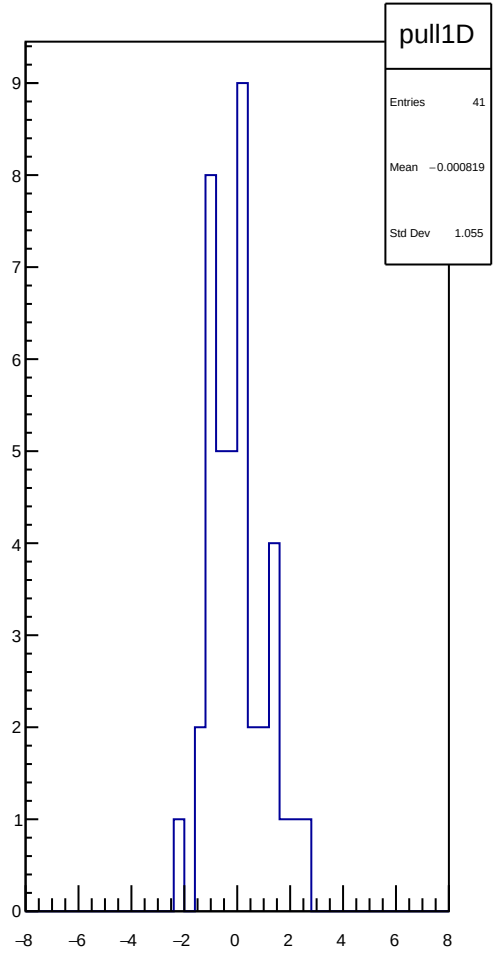

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.512e+05 / 40
p0 45.72 ± 0.06227
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

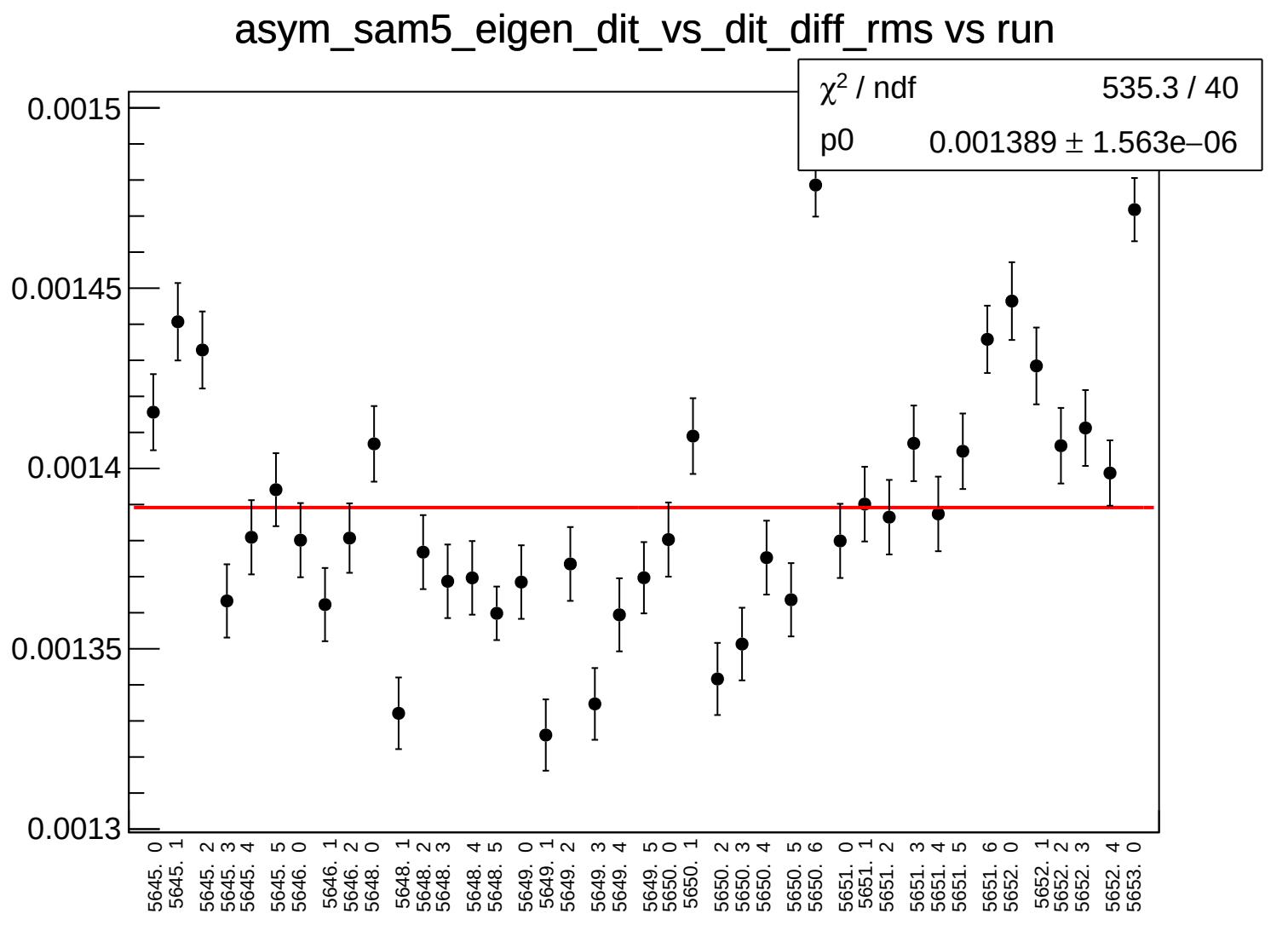

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.69 / 40
p0 0.06493 ± 0.08806
pull
Entries 41
Mean 90.72
Std Dev 0

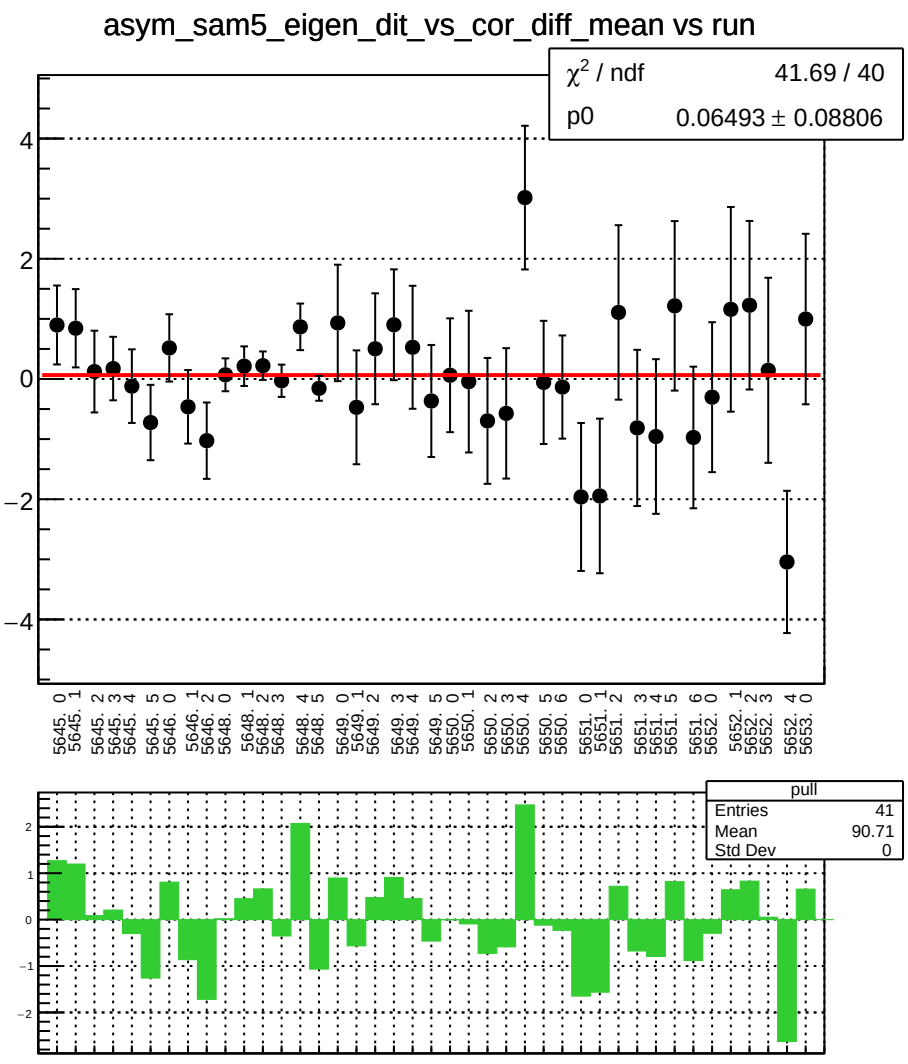

pull1D
Entries 41
Mean −0.02784
Std Dev 1.008

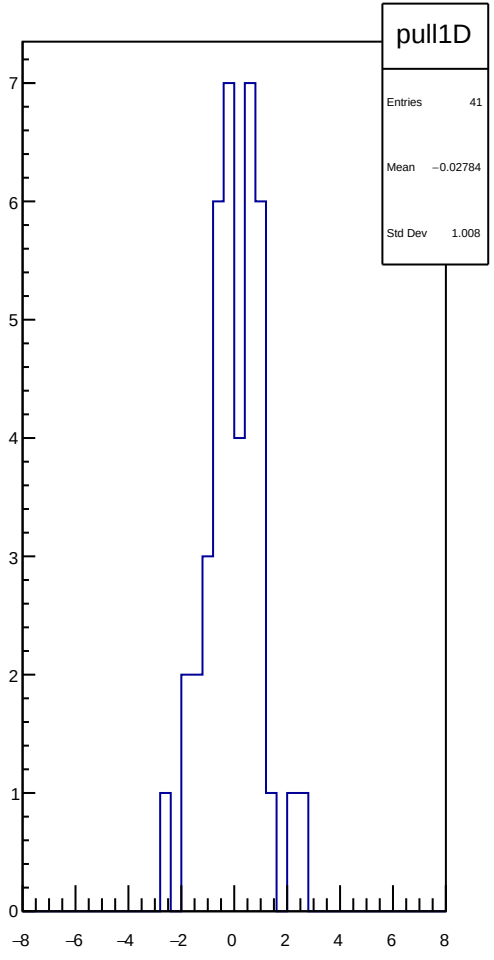

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.512e+05 / 40
p0 45.72 ± 0.06227
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

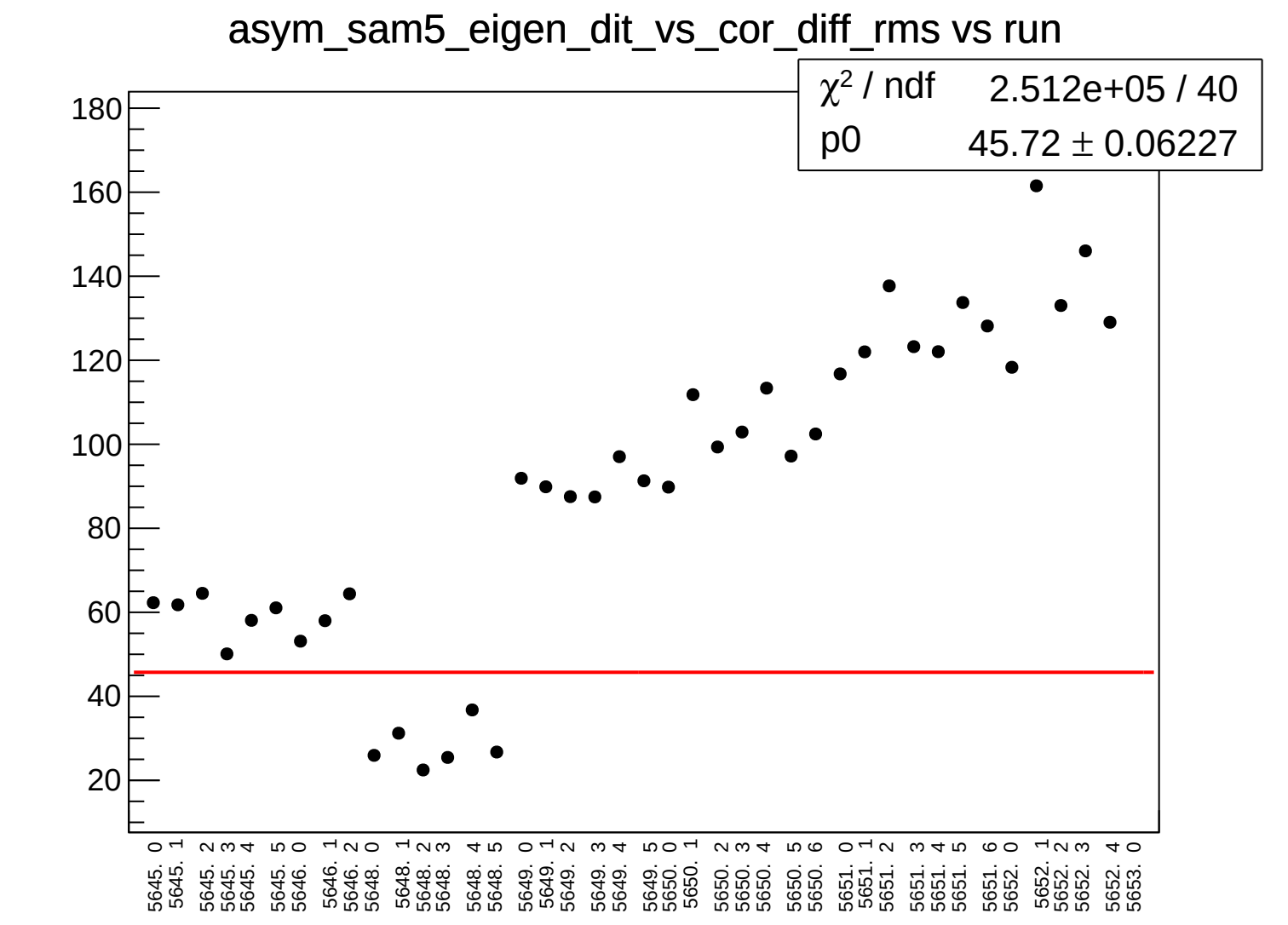

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.6 / 40
p0 −9.13e−07 ± 2.211e−06
0.06
0.04
0.02
0
−0.02
−0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −3003
Std Dev 0
3
2
1
0
−1
−2

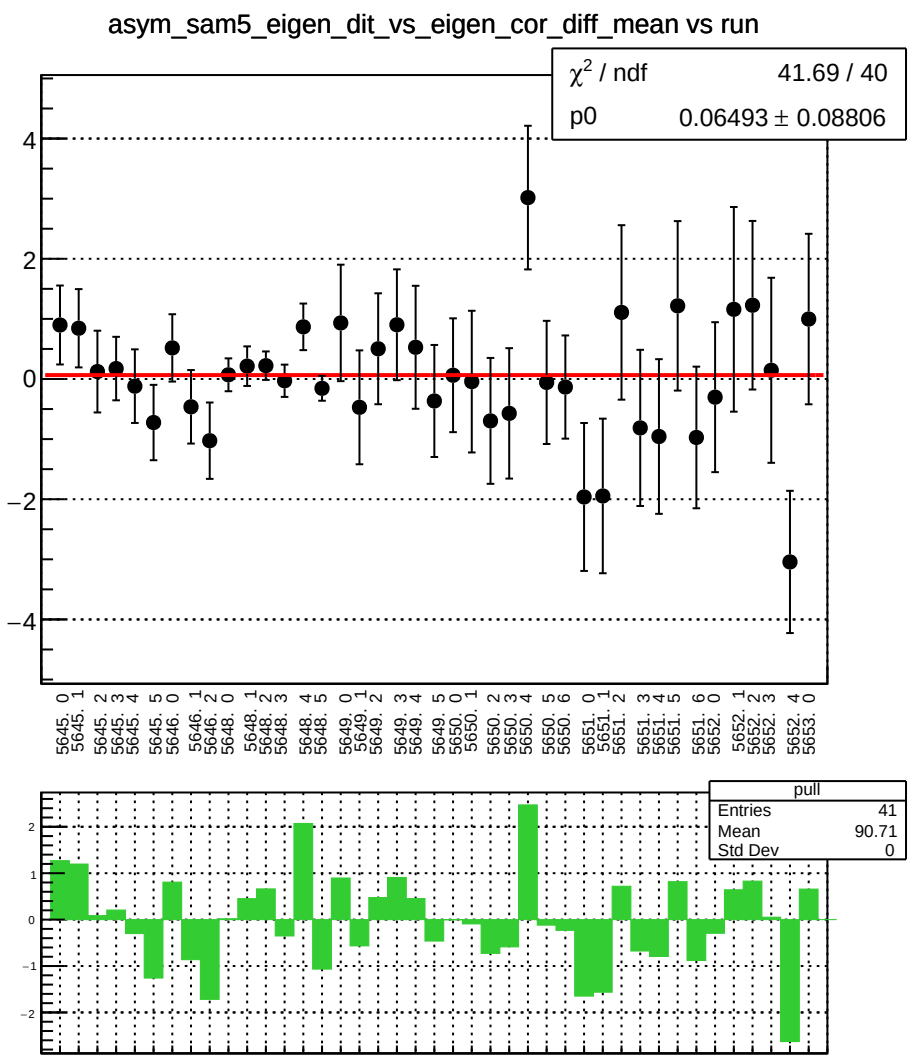

pull1D
Entries 41
Mean −0.000819
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

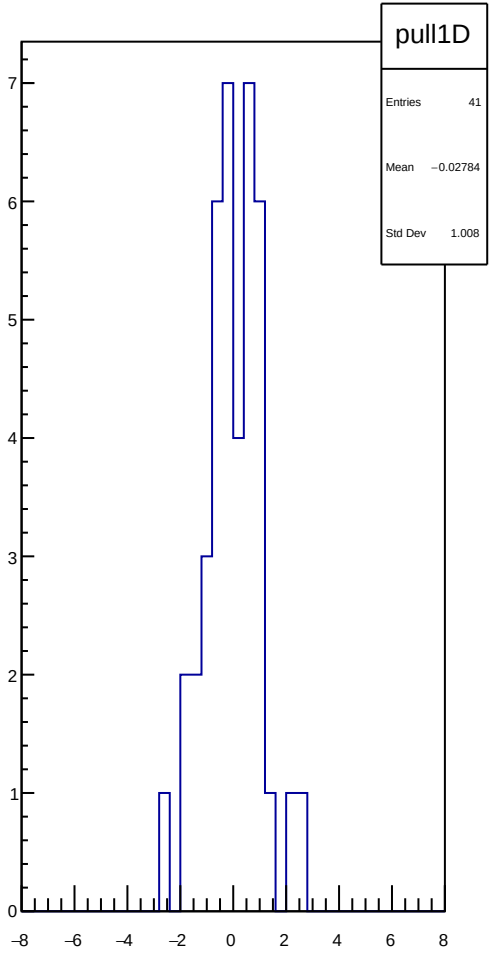

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 535.3 / 40
p0 0.001389 ± 1.563e−06
0.0015
0.00145
0.0014
0.00135
0.0013
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

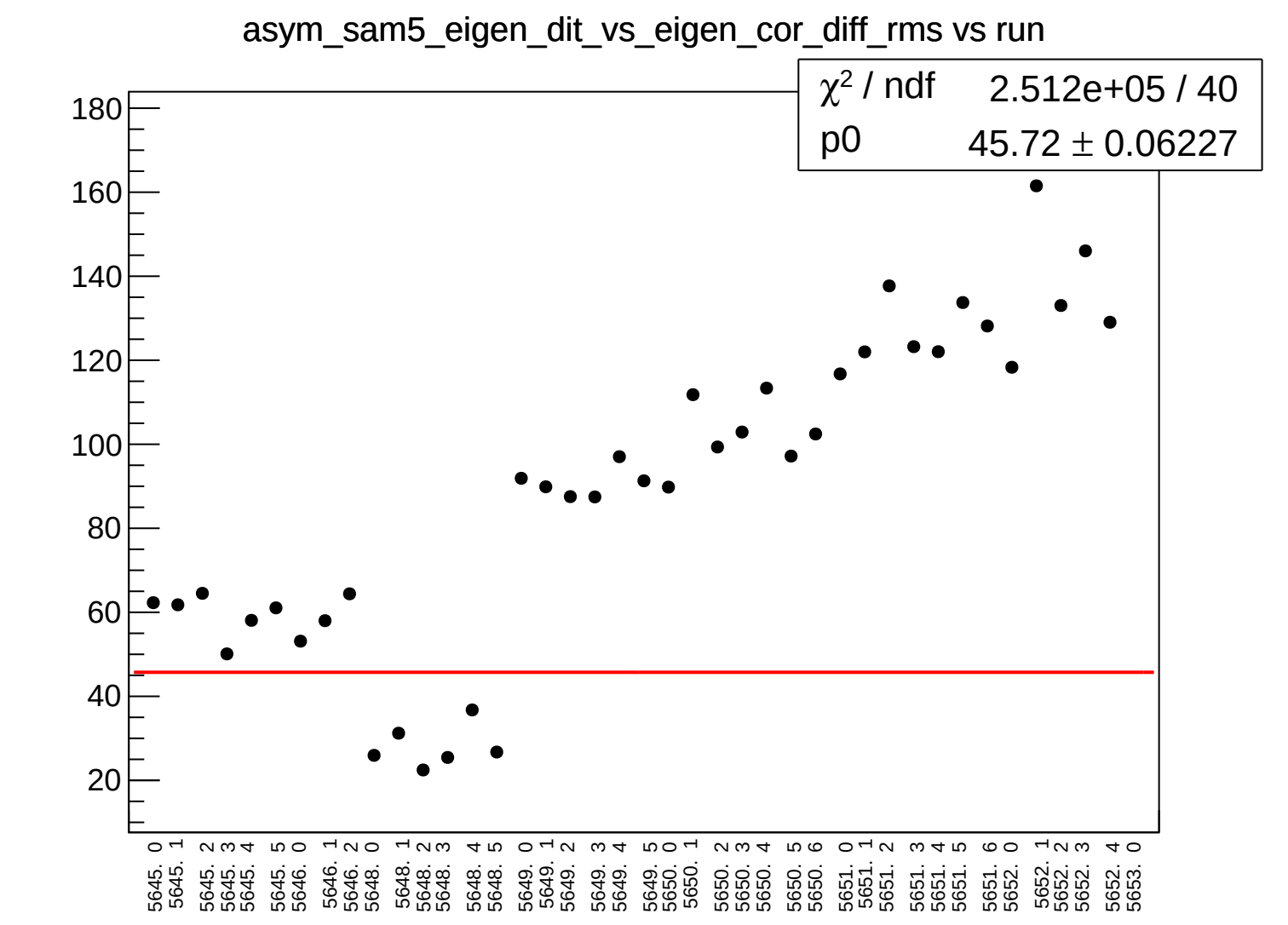

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.69 / 40
p0 0.06493 ± 0.08806
pull
Entries 41
Mean 90.71
Std Dev 0

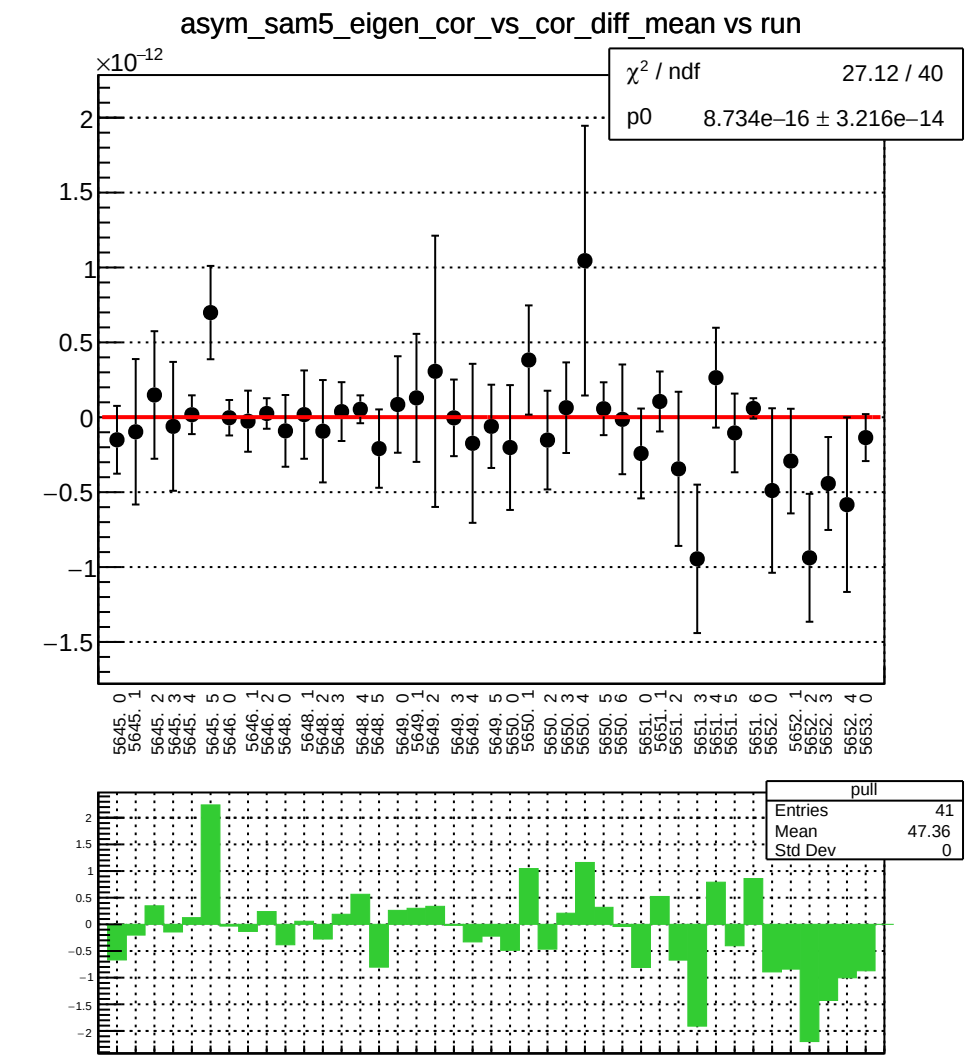

pull1D
Entries 41
Mean −0.02784
Std Dev 1.008

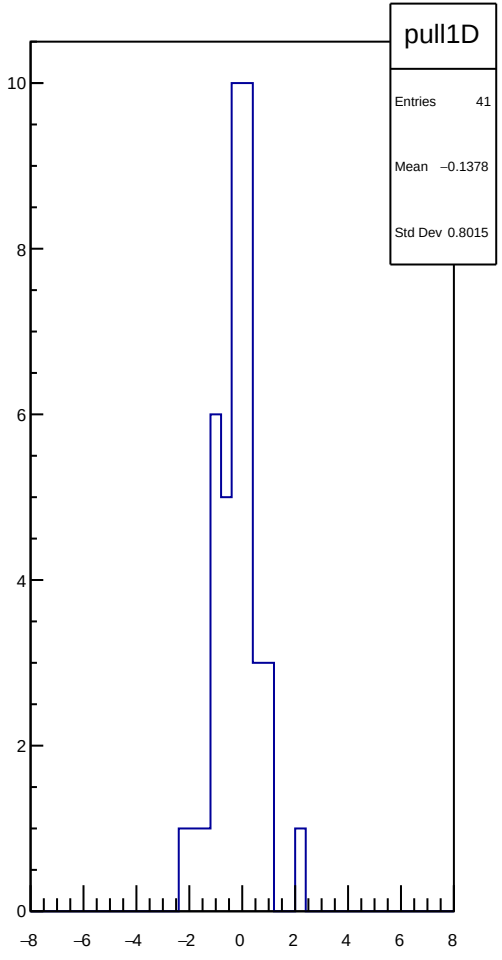

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.512e+05 / 40
p0 45.72 ± 0.06227
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

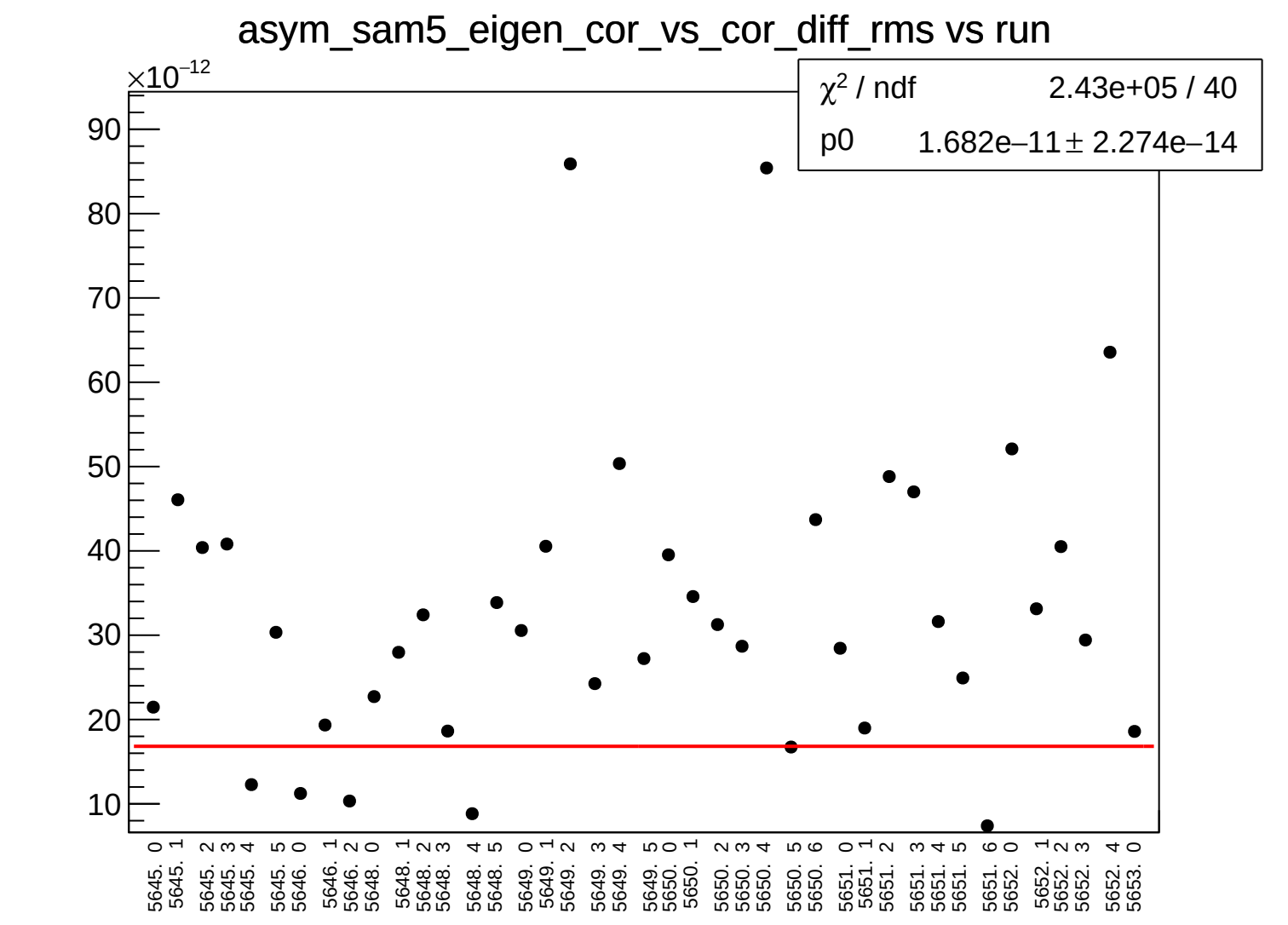

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.69 / 40
p0 0.06493 ± 0.08806
pull
Entries 41
Mean 90.71
Std Dev 0

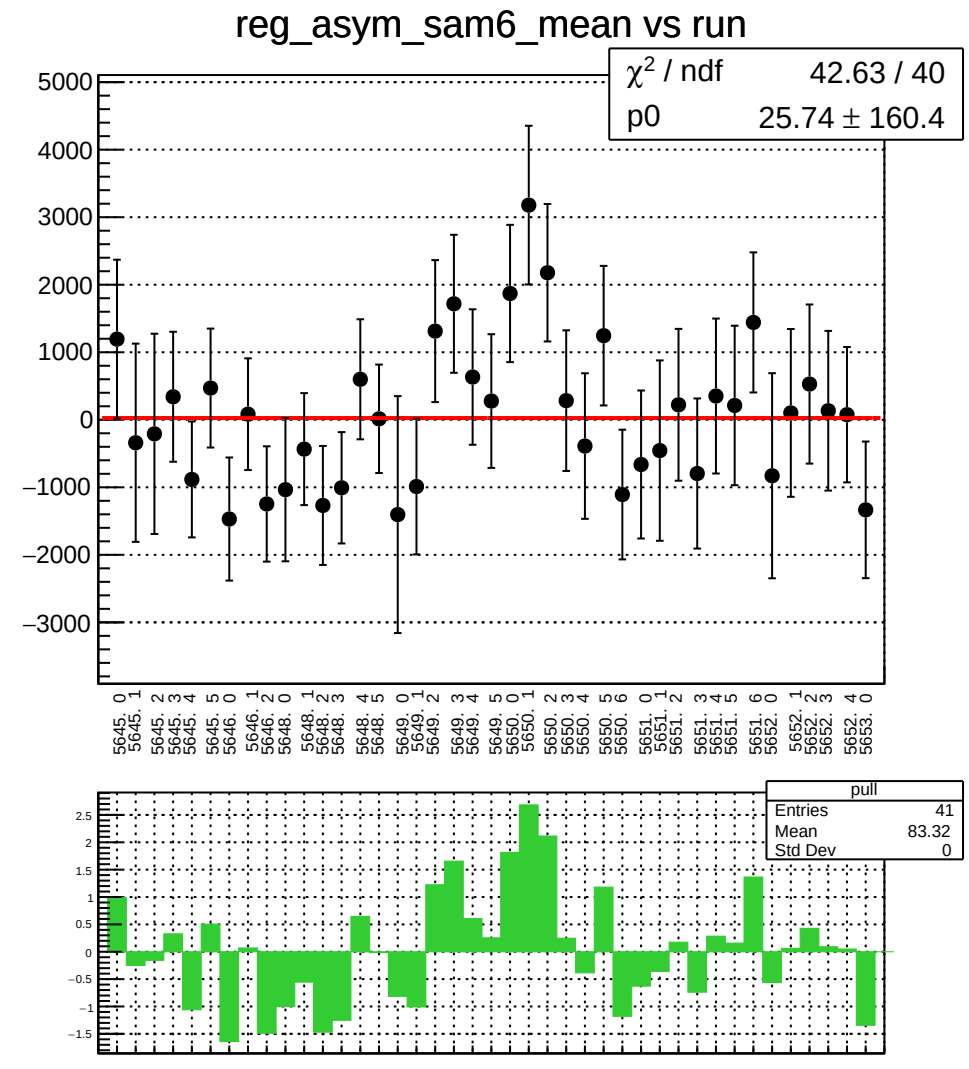

pull1D
Entries 41
Mean −0.02784
Std Dev 1.008

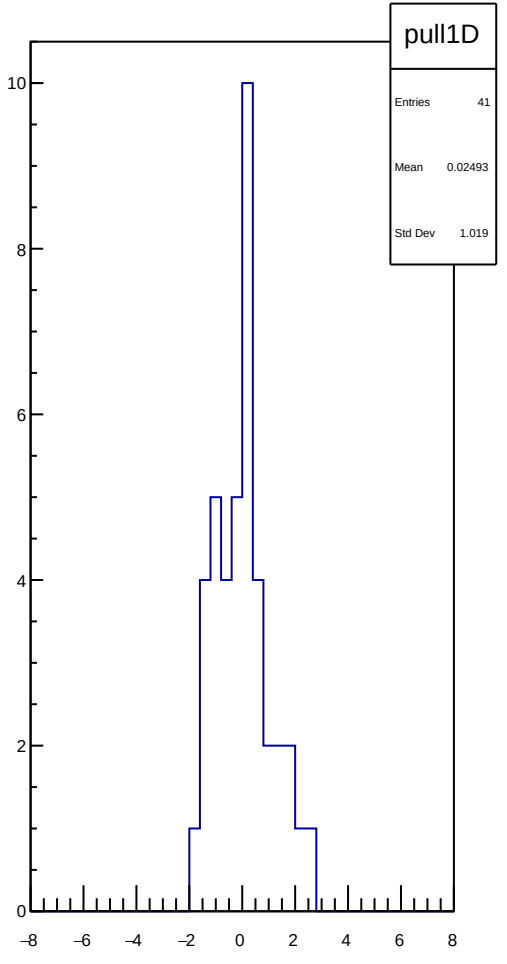

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.512e+05 / 40
p0 45.72 ± 0.06227
180
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

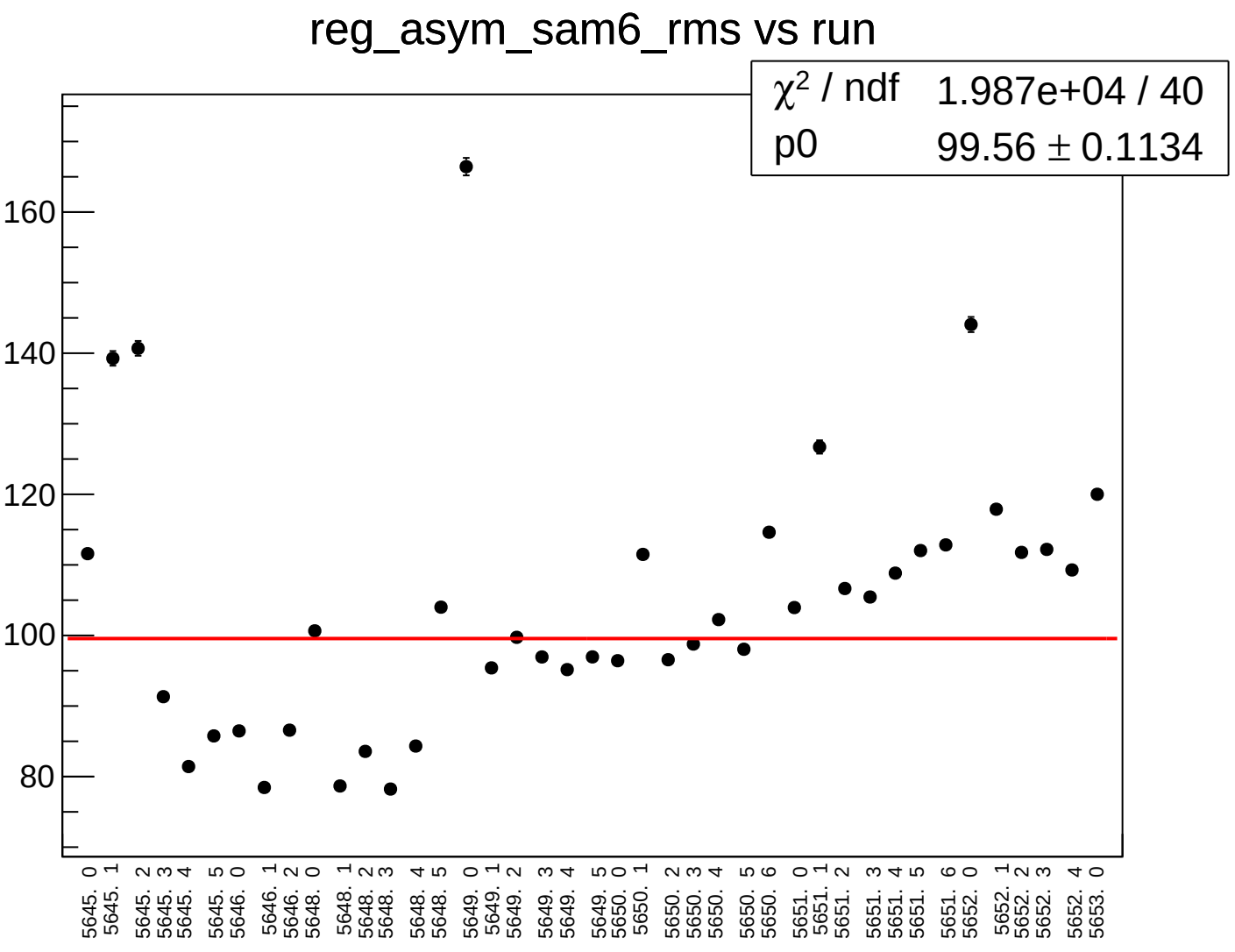

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 27.12 / 40
p0 8.734e−16 ± 3.216e−14
pull
Entries 41
Mean 47.36
Std Dev 0

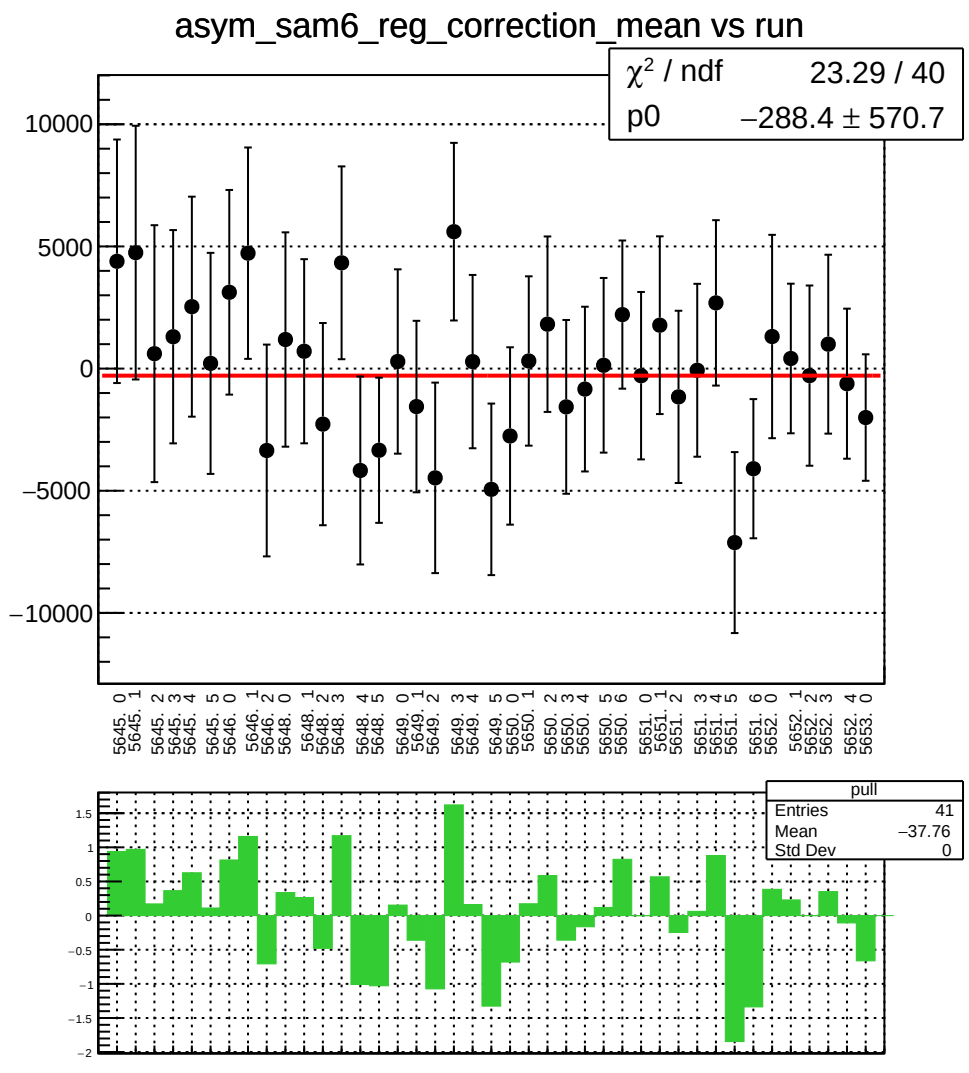

pull1D
Entries 41
Mean −0.1378
Std Dev 0.8015

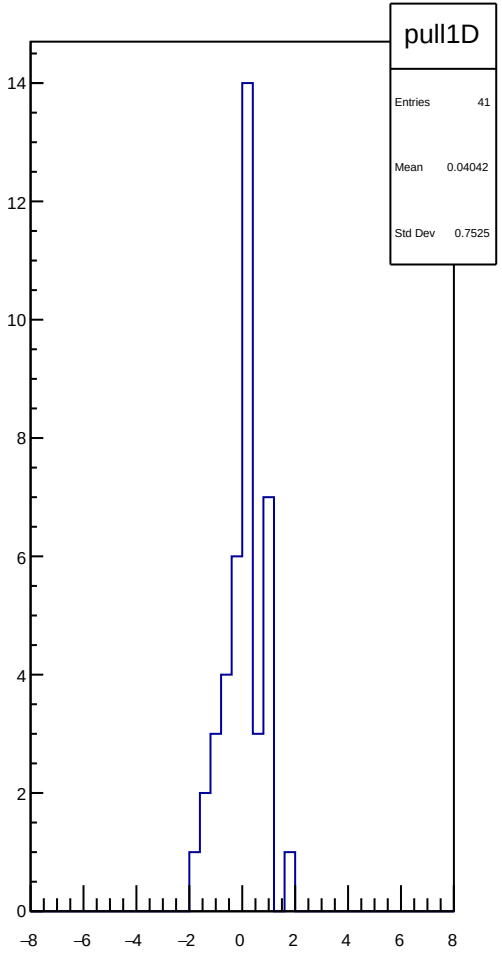

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.43e+05 / 40
p0 1.682e−11 ± 2.274e−14
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

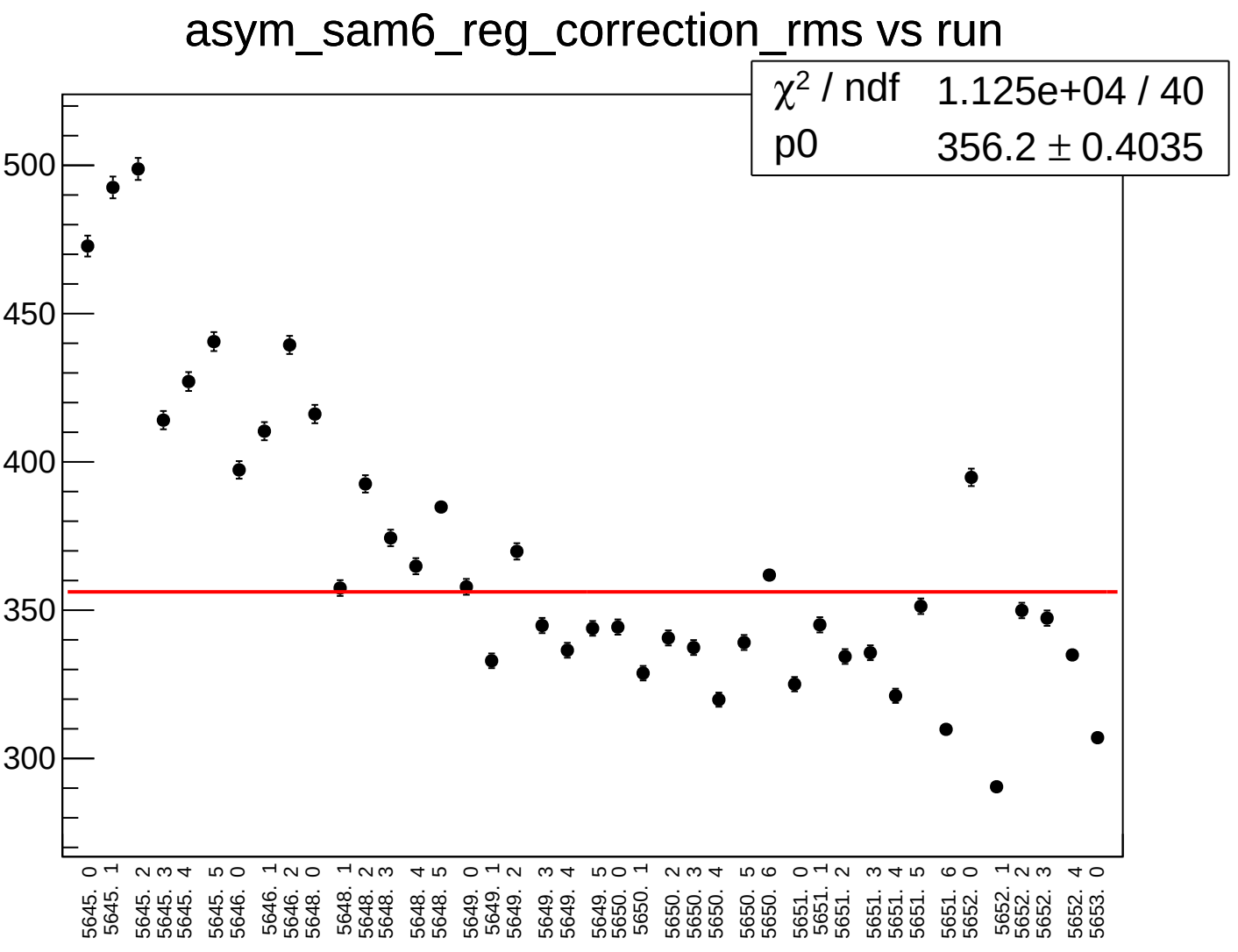

reg_asym_sam6_mean vs run
χ^2 / ndf 42.63 / 40
p0 25.74 ± 160.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 83.32
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

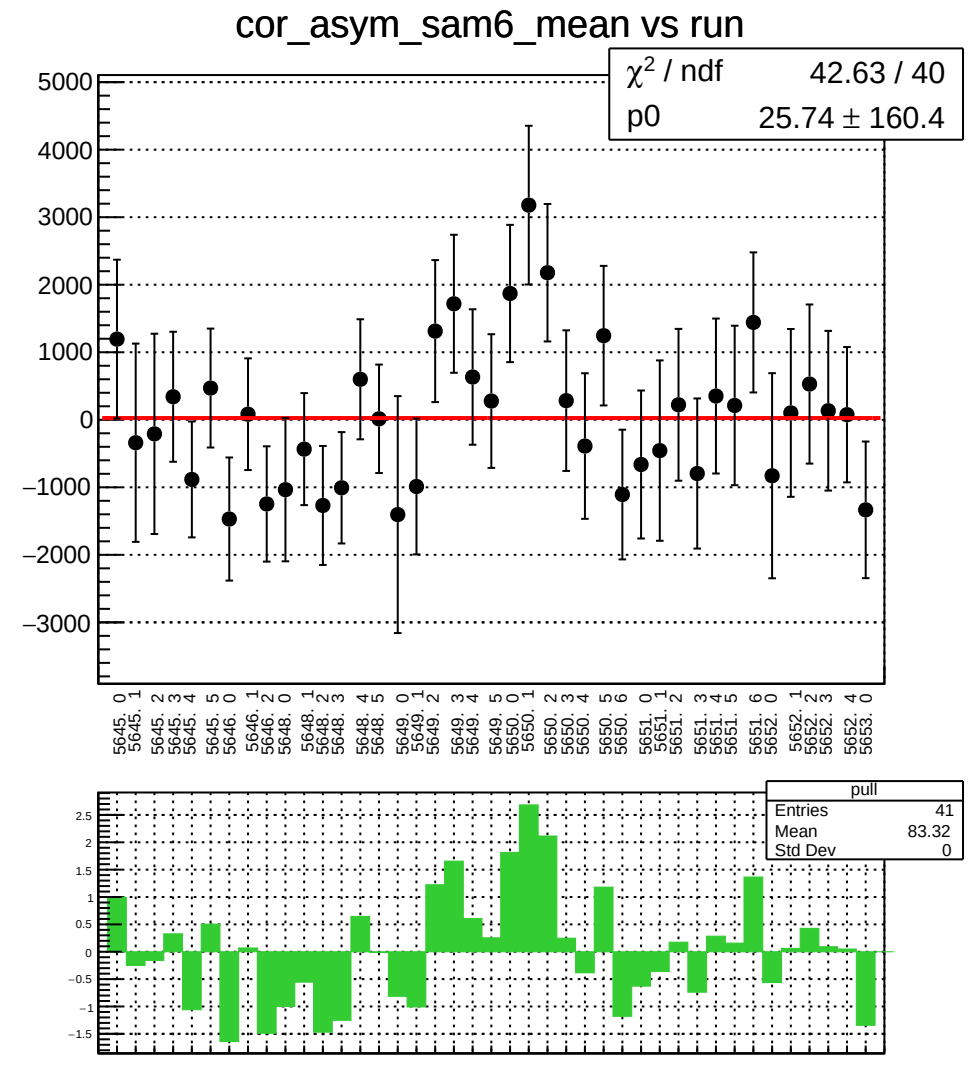

pull1D
Entries 41
Mean 0.02493
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

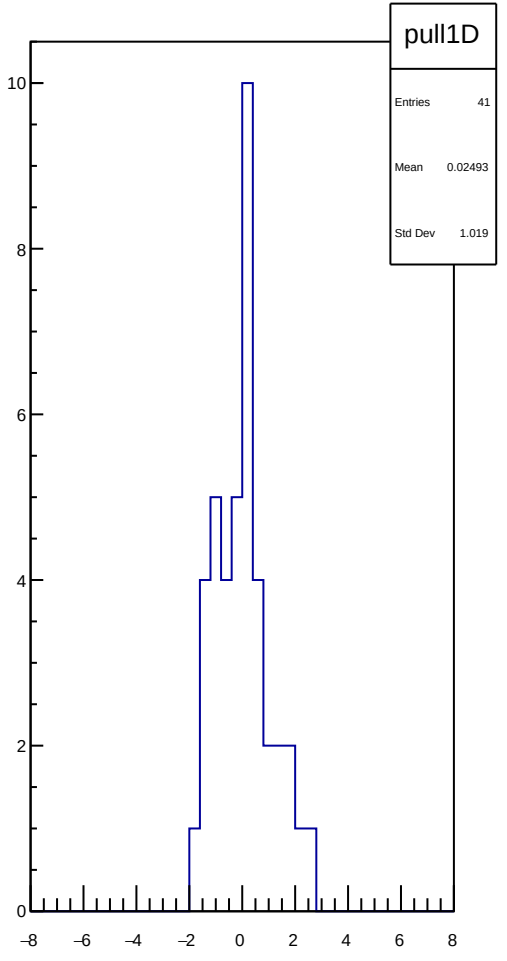

reg_asym_sam6_rms vs run
χ² / ndf 1.987e+04 / 40
p0 99.56 ± 0.1134
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

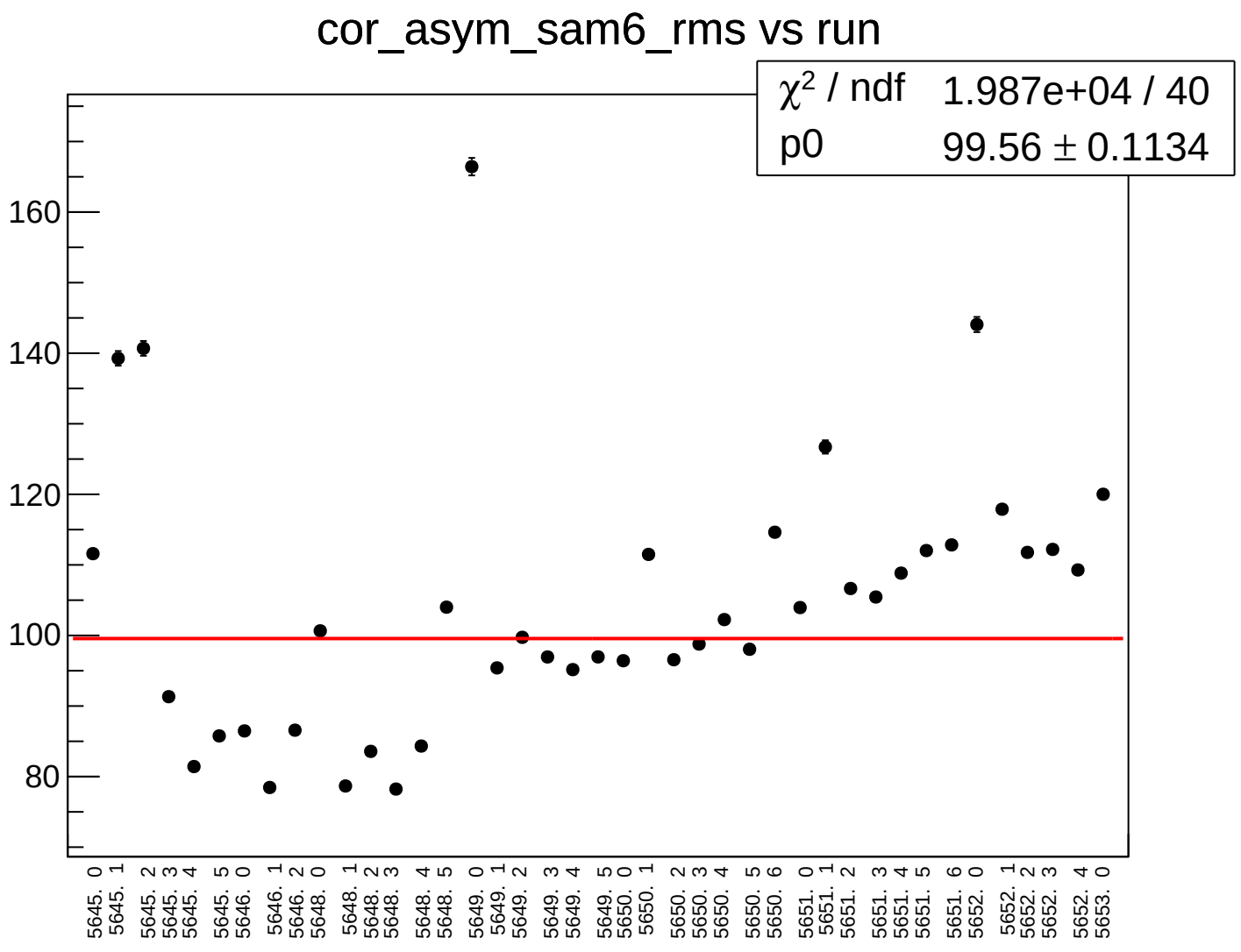

asym_sam6_reg_correction_mean vs run
χ² / ndf 23.29 / 40
p0 −288.4 ± 570.7
10000
5000
0
−5000
−10000
pull
Entries 41
Mean −37.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

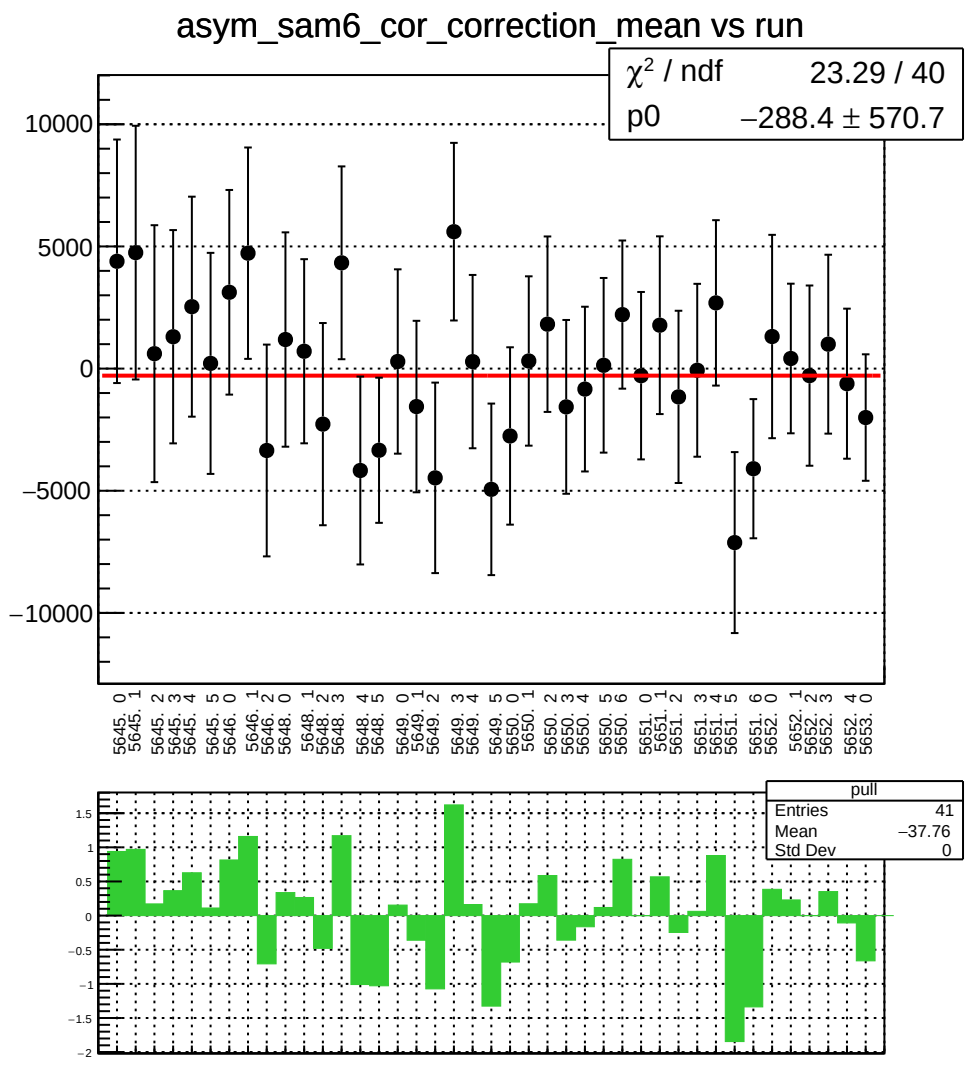

pull1D
Entries 41
Mean 0.04042
Std Dev 0.7525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

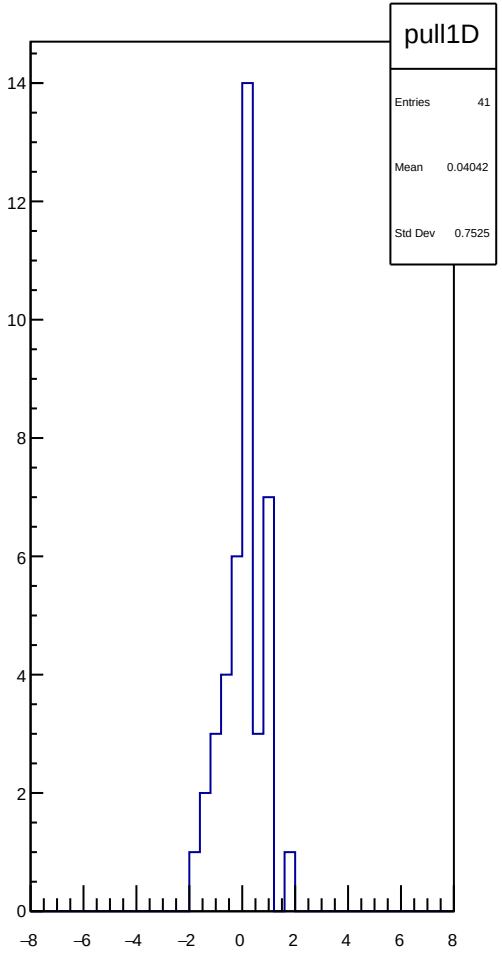

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.125e+04 / 40
p0 356.2 ± 0.4035
500
450
400
350
300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

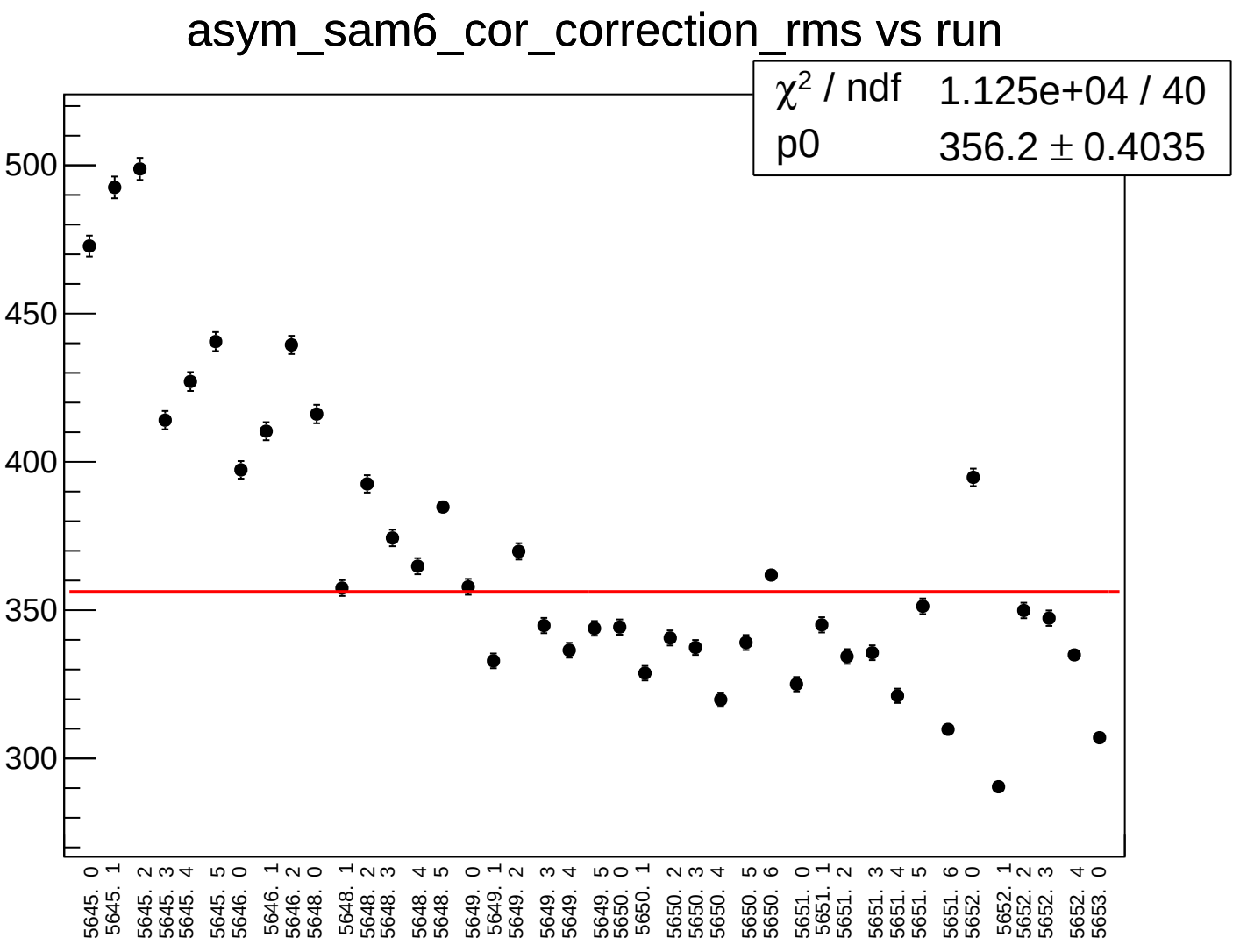

cor_asym_sam6_mean vs run
χ² / ndf 42.63 / 40
p0 25.74 ± 160.4
pull
Entries 41
Mean 83.32
Std Dev 0

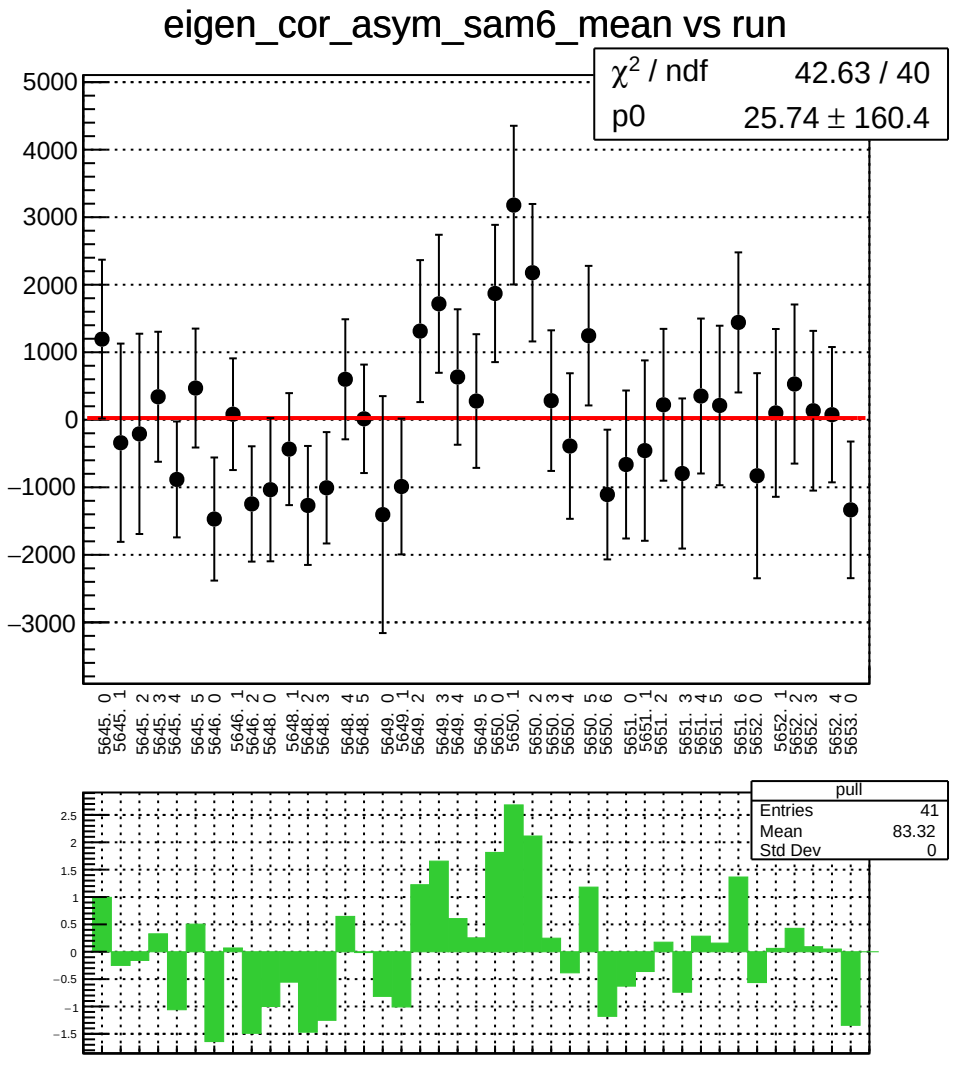

pull1D
Entries 41
Mean 0.02493
Std Dev 1.019

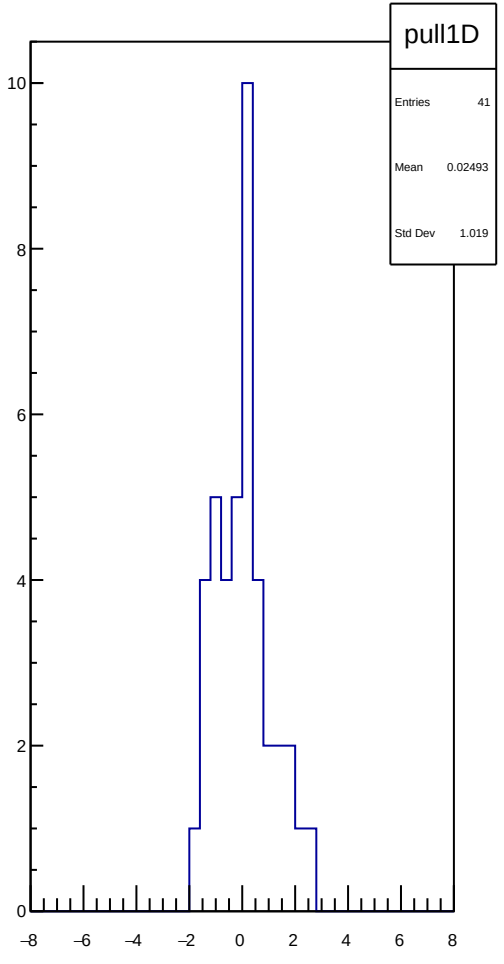

cor_asym_sam6_rms vs run
χ² / ndf 1.987e+04 / 40
p0 99.56 ± 0.1134
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

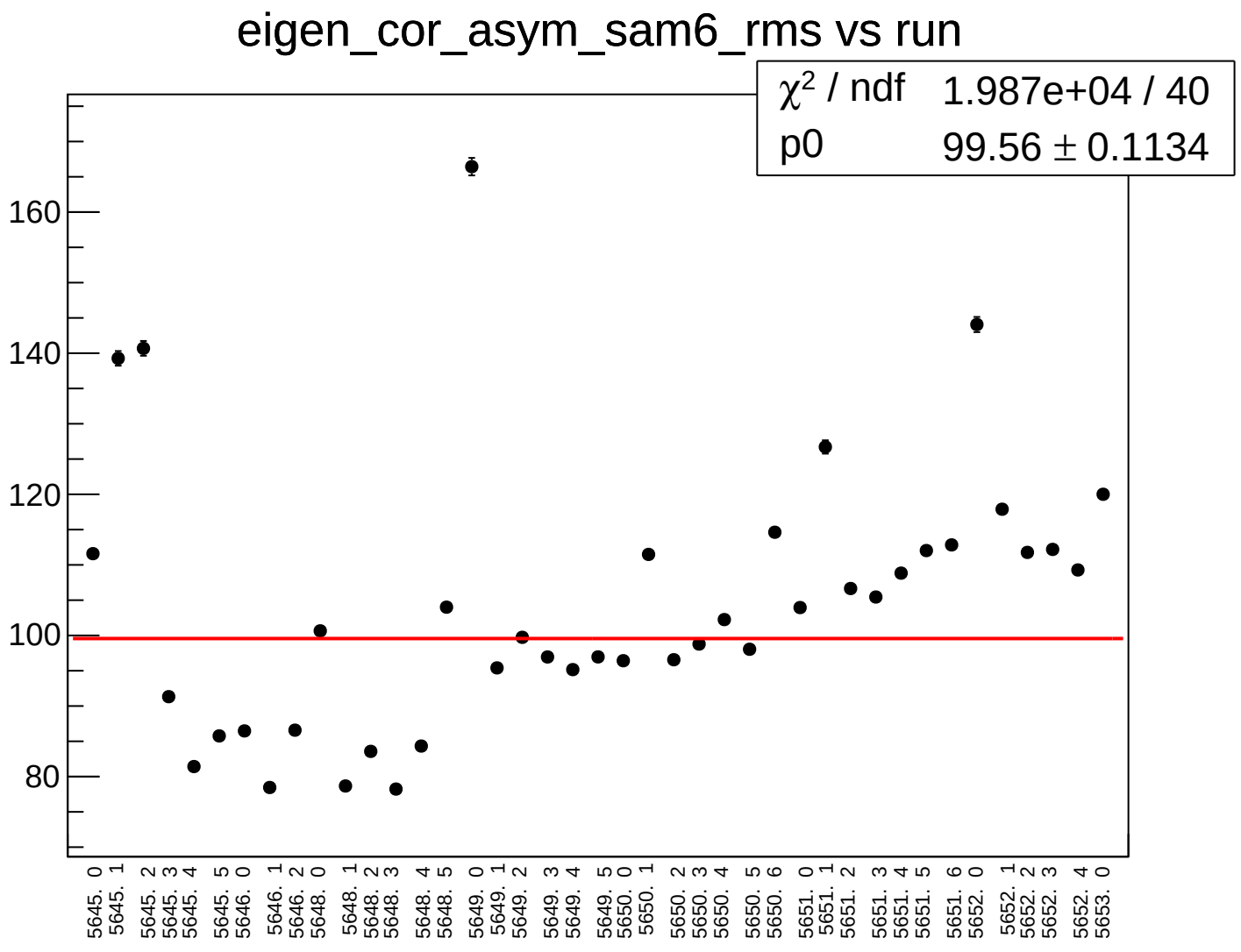

asym_sam6_cor_correction_mean vs run
χ² / ndf 23.29 / 40
p0 −288.4 ± 570.7
10000
5000
0
−5000
−10000
pull
Entries 41
Mean −37.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

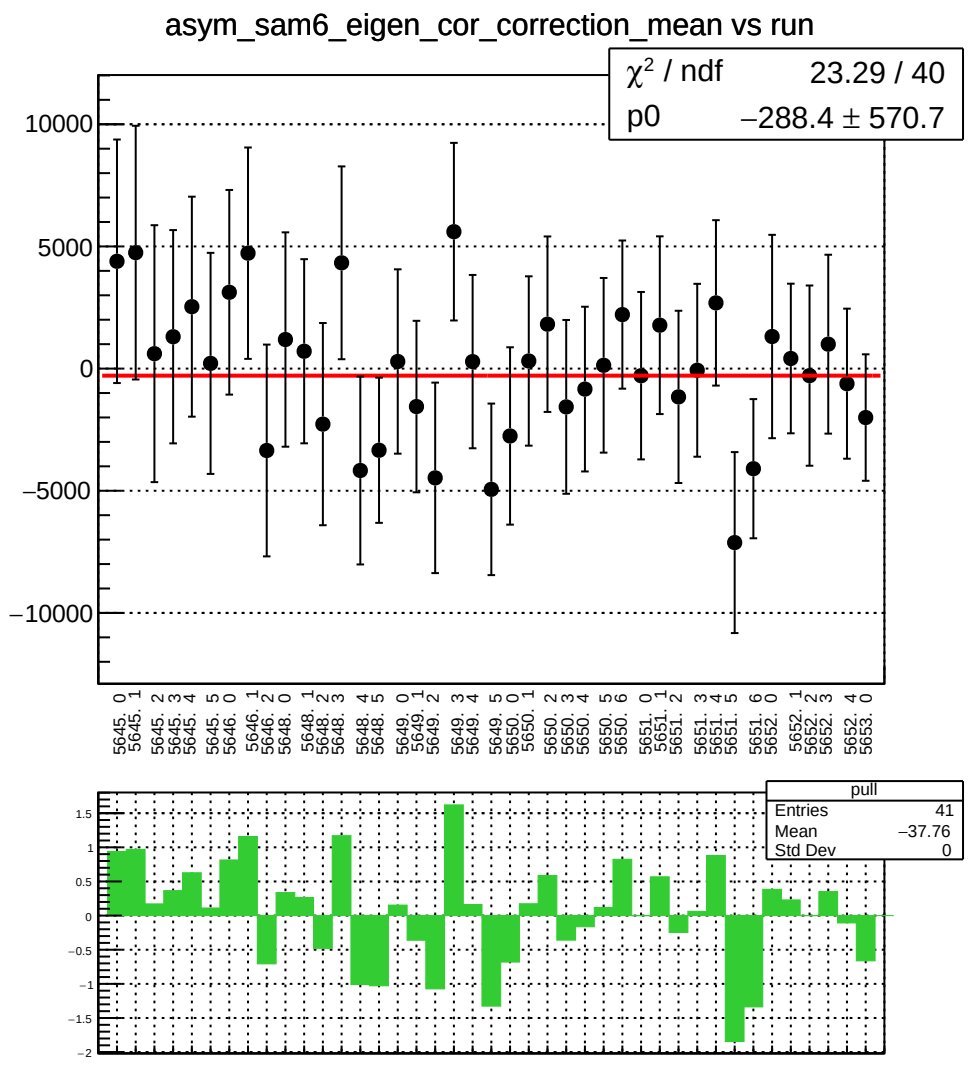

pull1D
Entries 41
Mean 0.04042
Std Dev 0.7525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

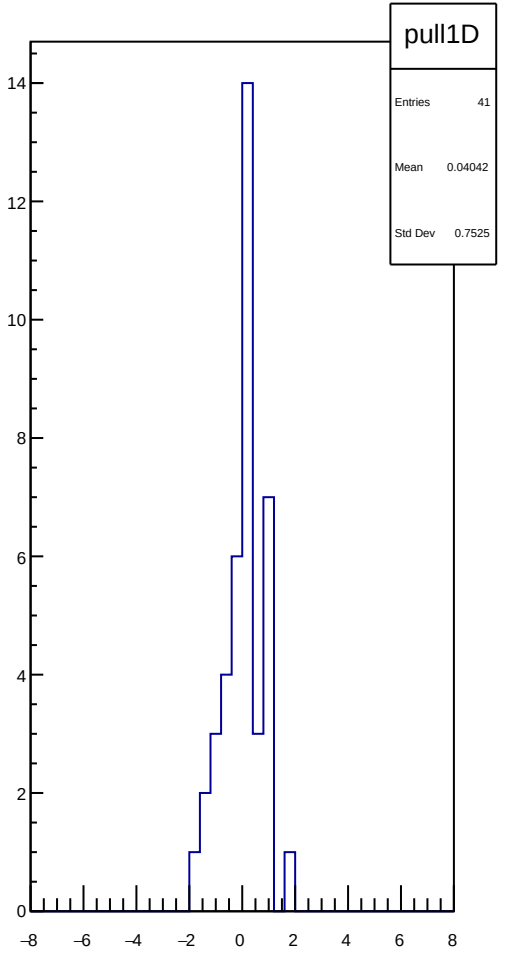

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.125e+04 / 40
p0 356.2 ± 0.4035
500
450
400
350
300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

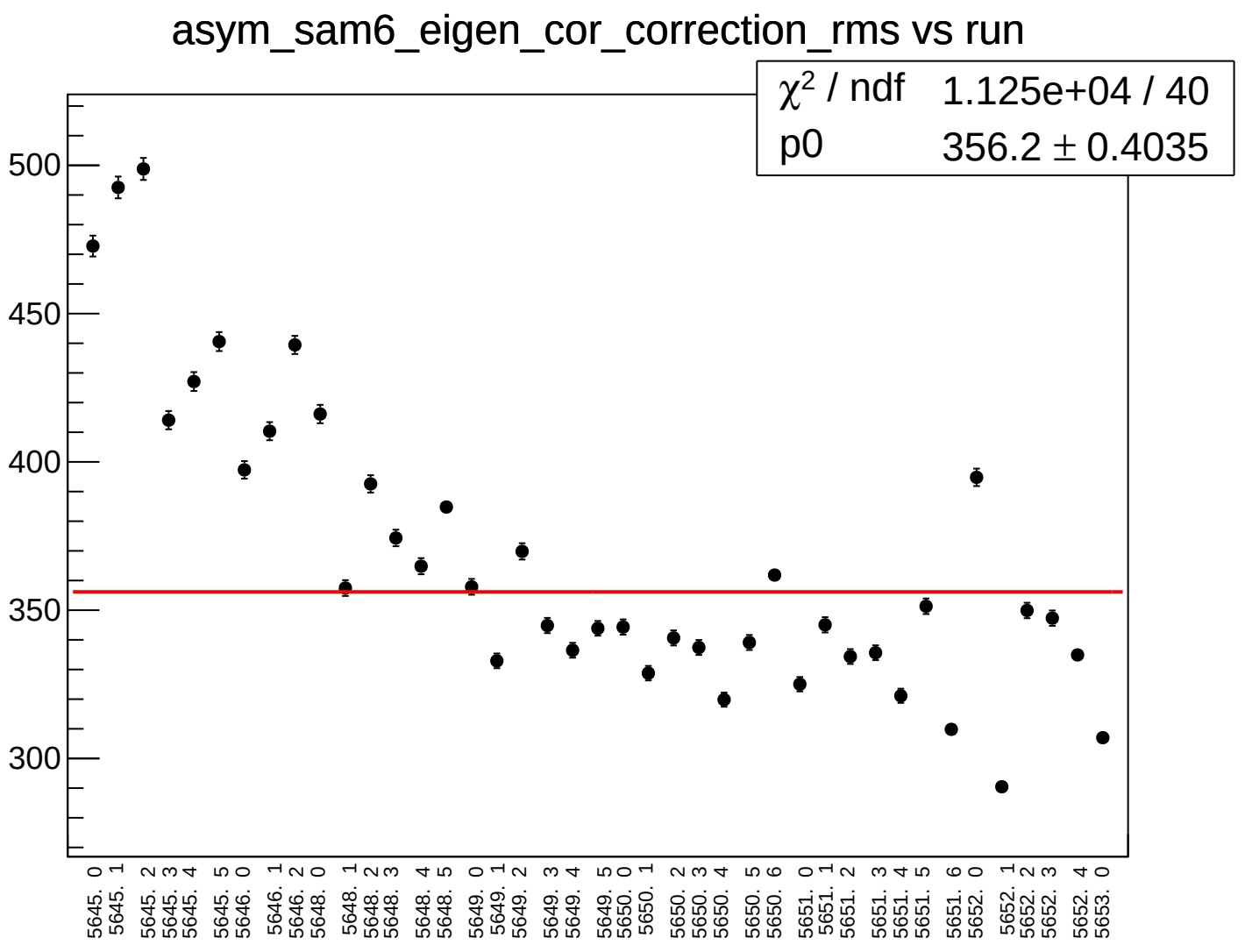

eigen_cor_asym_sam6_mean vs run
χ² / ndf 42.63 / 40
p0 25.74 ± 160.4
pull
Entries 41
Mean 83.32
Std Dev 0

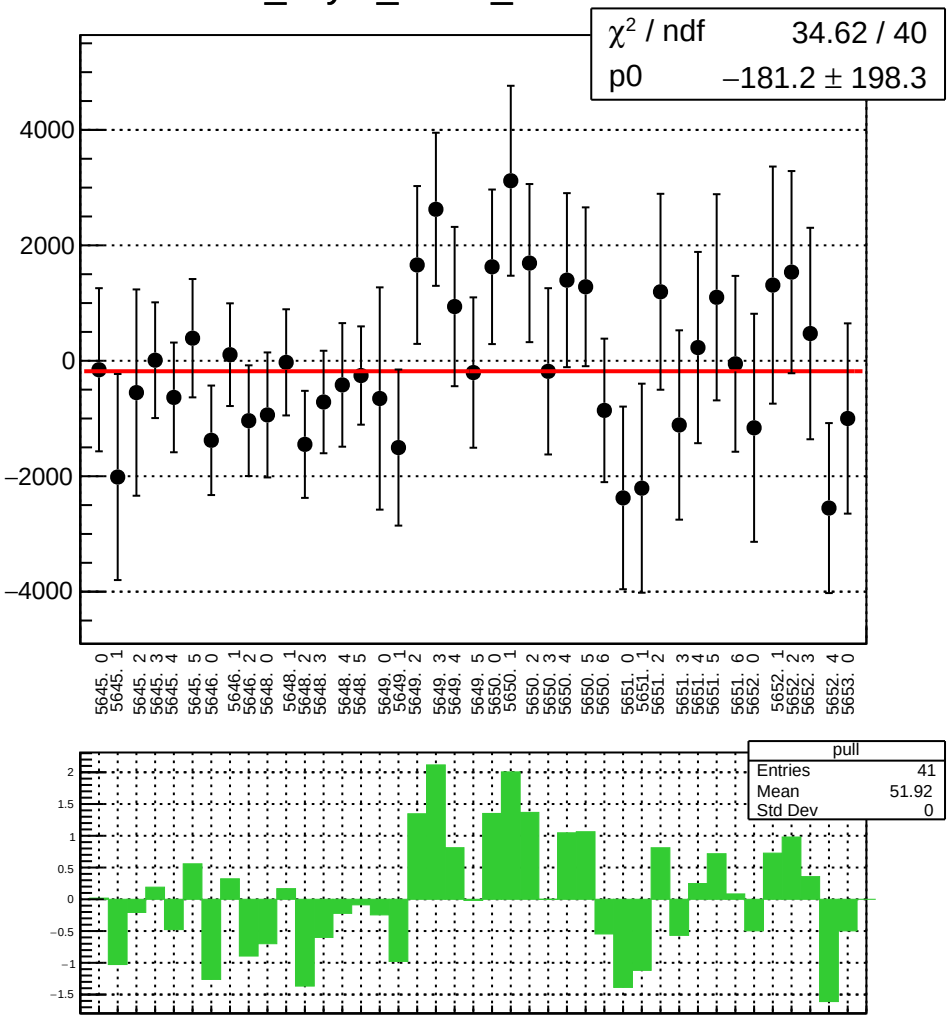

pull1D
Entries 41
Mean 0.02493
Std Dev 1.019

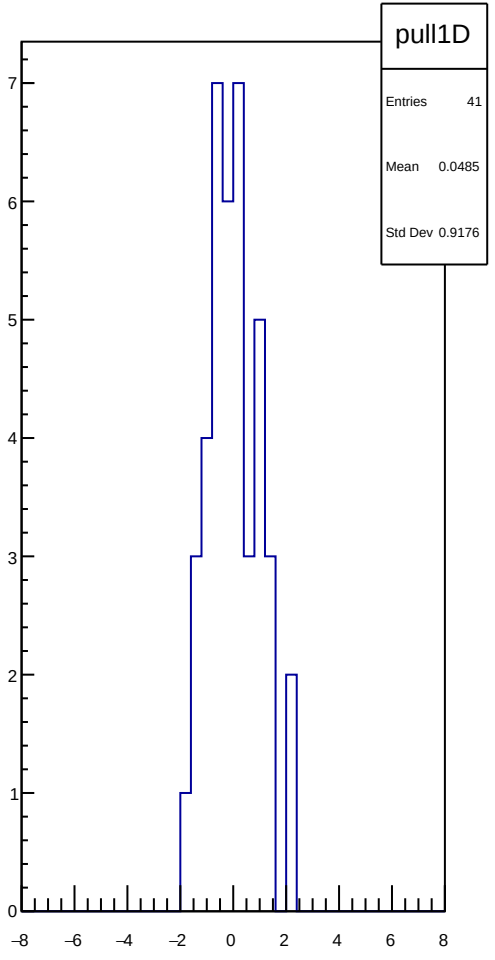

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.987e+04 / 40
p0 99.56 ± 0.1134
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

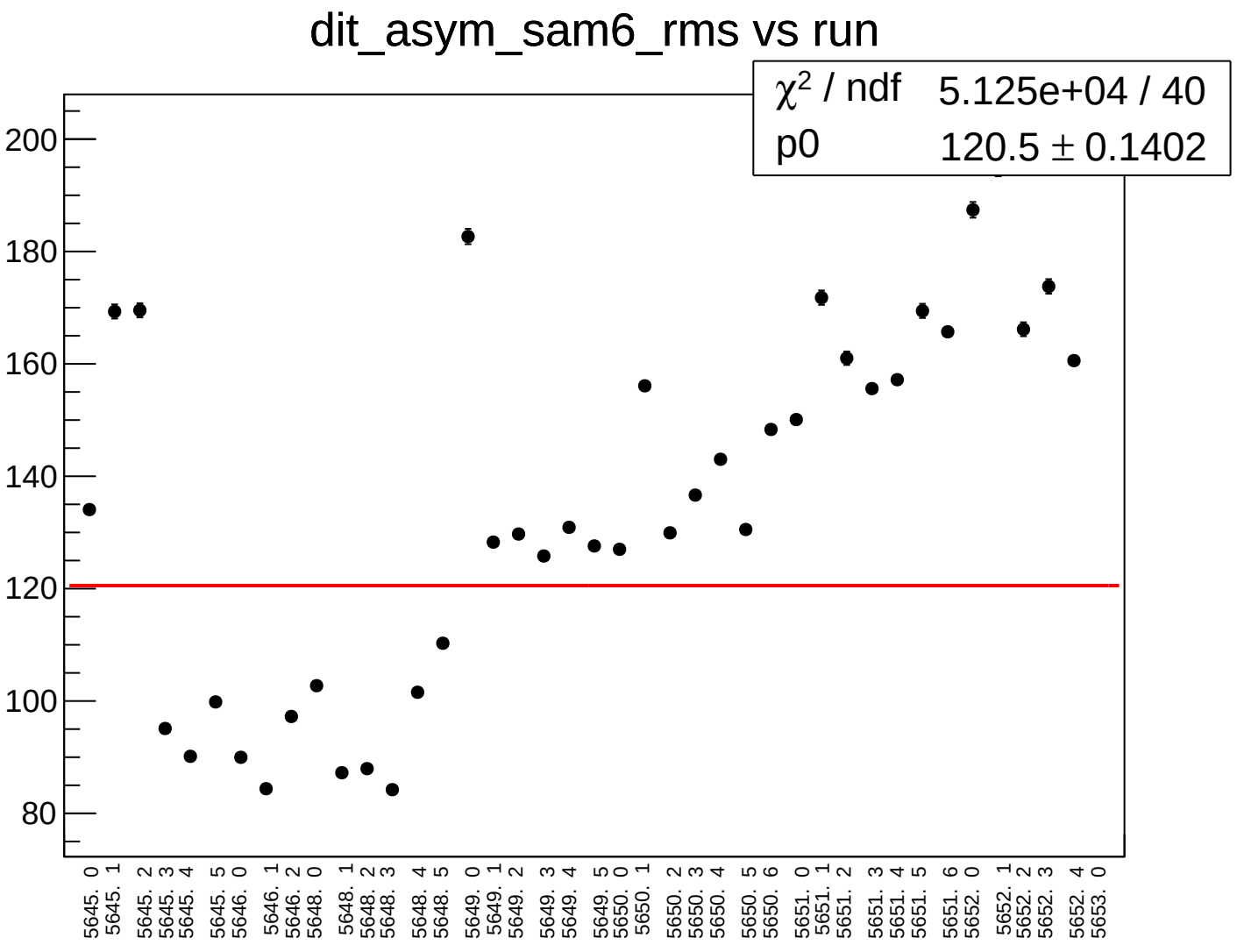

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 23.29 / 40
p0 −288.4 ± 570.7
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −37.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean 0.04042
Std Dev 0.7525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.125e+04 / 40
p0 356.2 ± 0.4035
500
450
400
350
300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_sam6_mean vs run
χ² / ndf 34.62 / 40
p0 −181.2 ± 198.3
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 51.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.0485
Std Dev 0.9176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam6_rms vs run
χ² / ndf 5.125e+04 / 40
p0 120.5 ± 0.1402
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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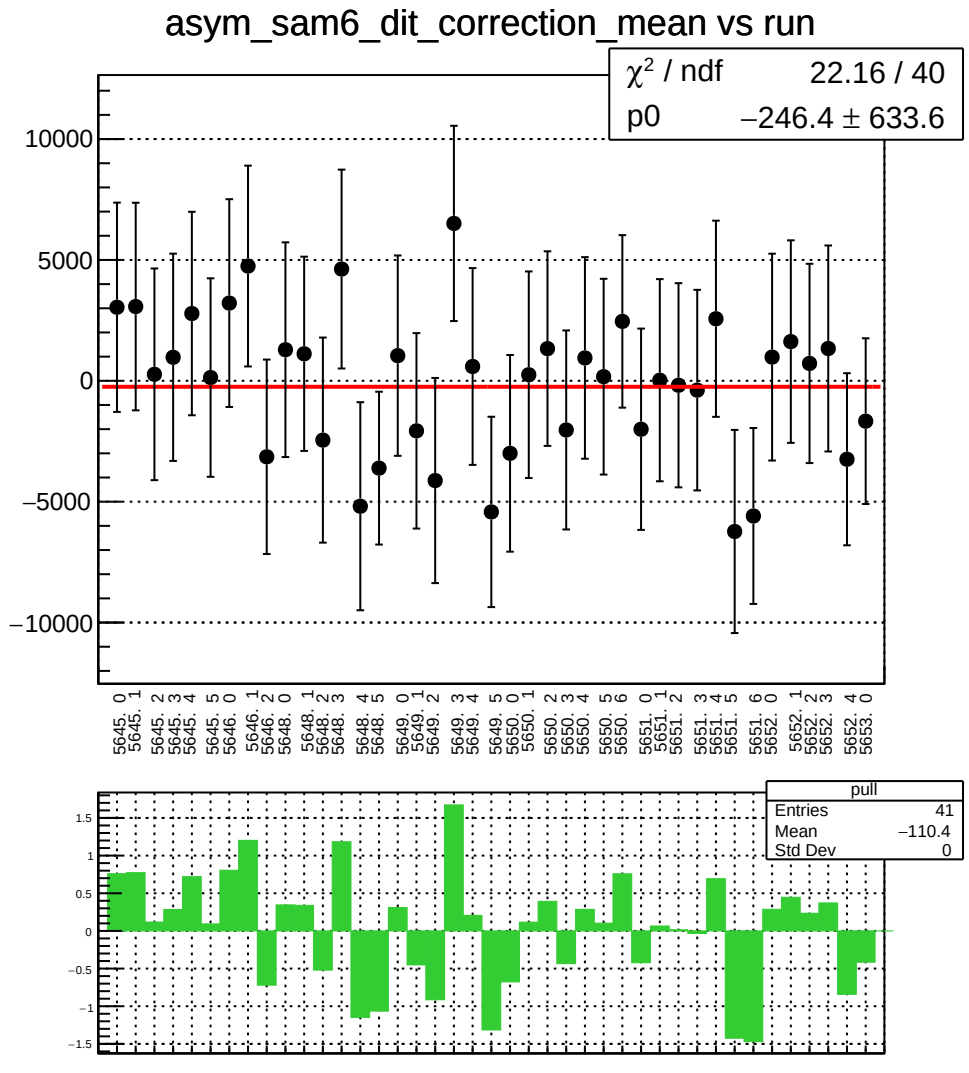
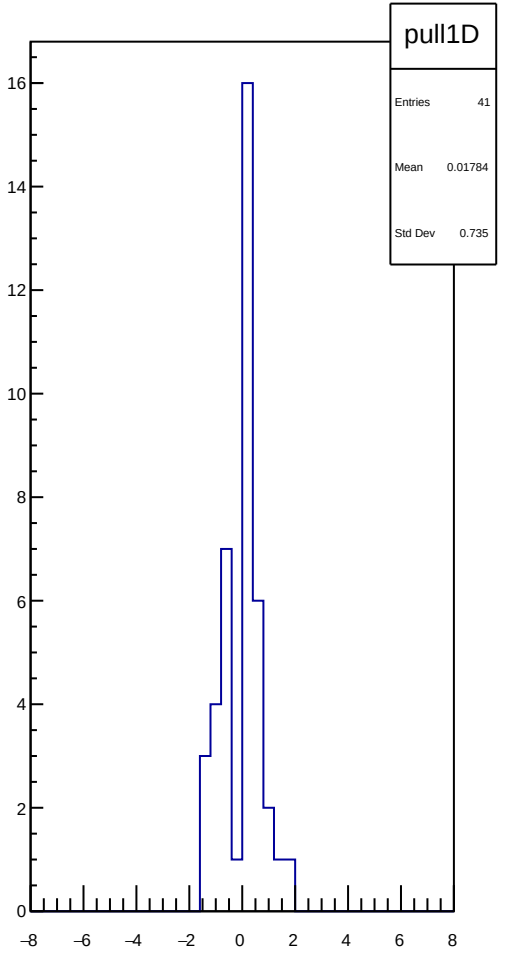
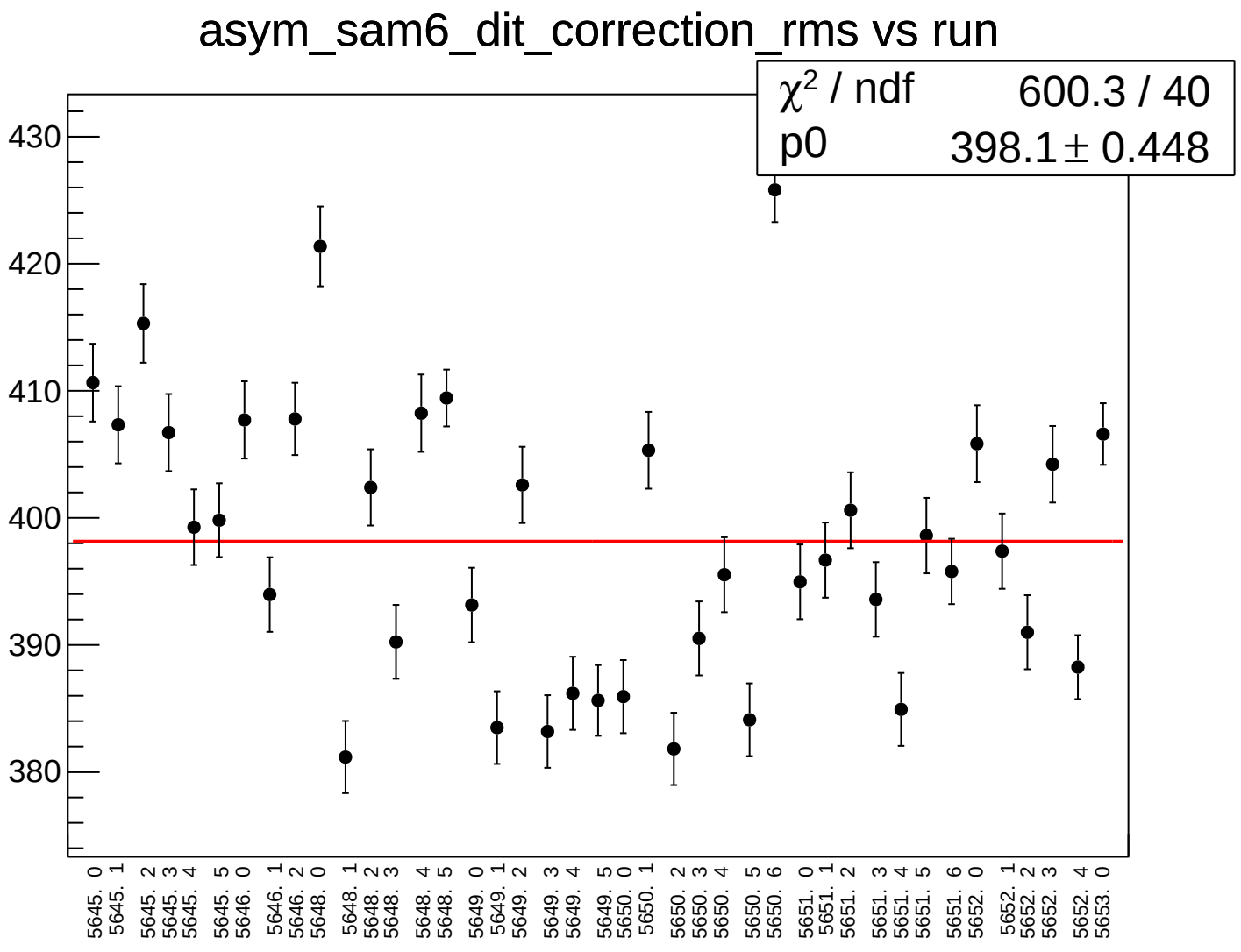
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam6_dit_correction_mean vs run
χ² / ndf 22.16 / 40
p0 −246.4 ± 633.6
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −110.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01784
Std Dev 0.735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_dit_correction_rms vs run
χ^2 / ndf 600.3 / 40
p0 398.1 ± 0.448
430
420
410
400
390
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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5652. 2
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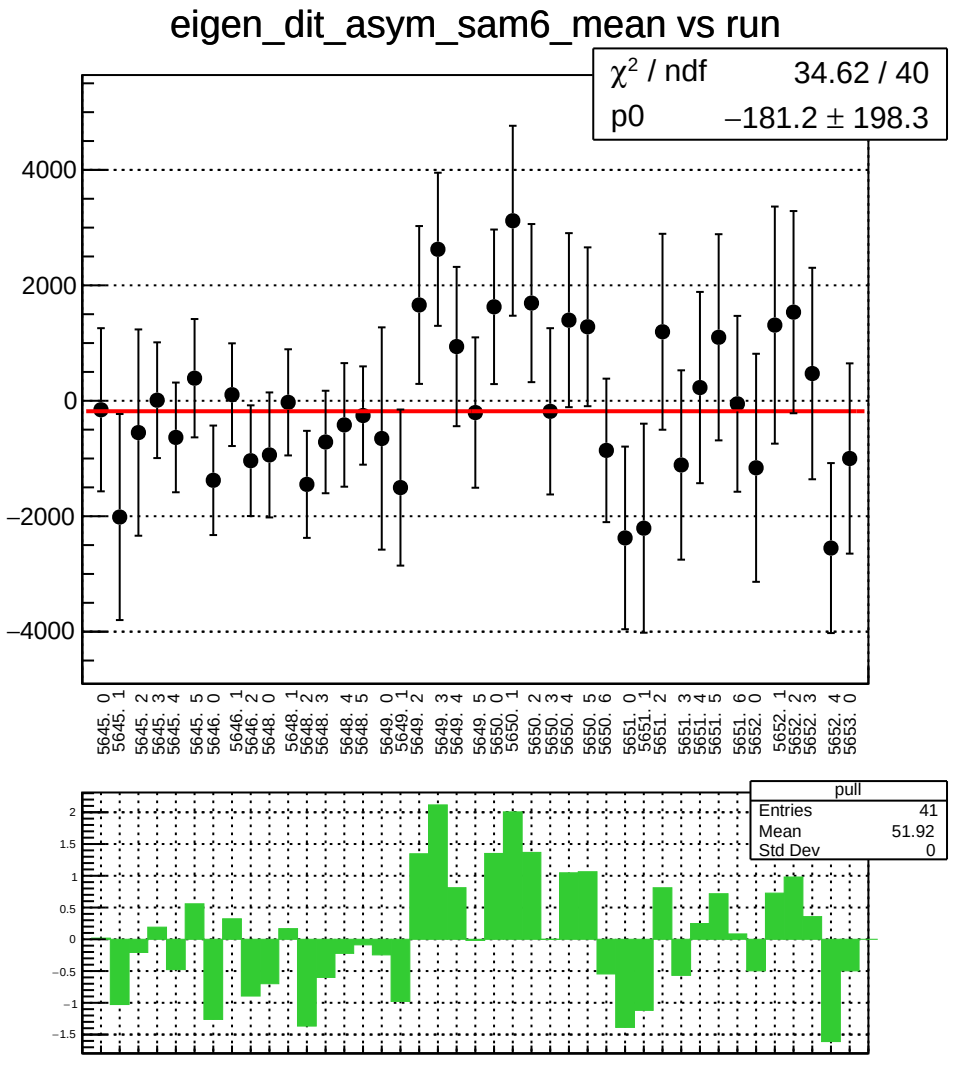
5652. 4
5653. 0


eigen_dit_asym_sam6_mean vs run
χ² / ndf 34.62 / 40
p0 −181.2 ± 198.3
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
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5648. 4
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5650. 0
5650. 1
5650. 2
5650. 3
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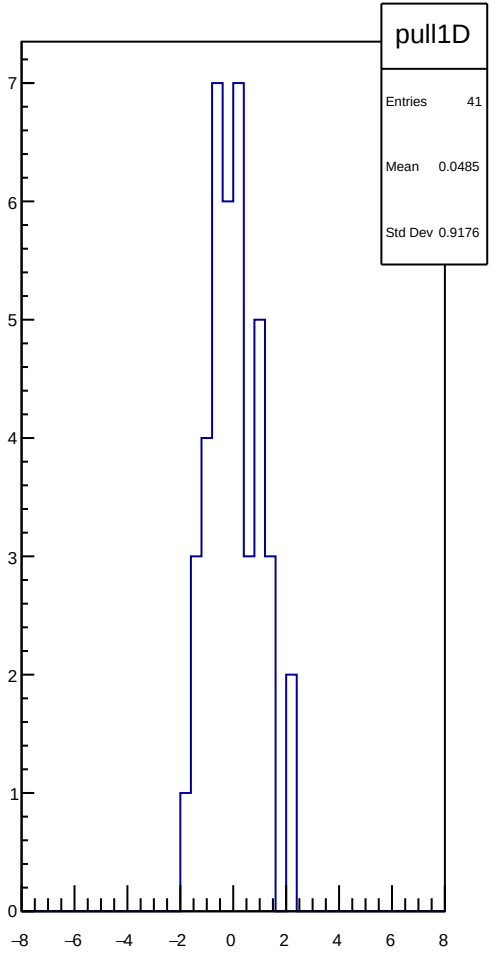
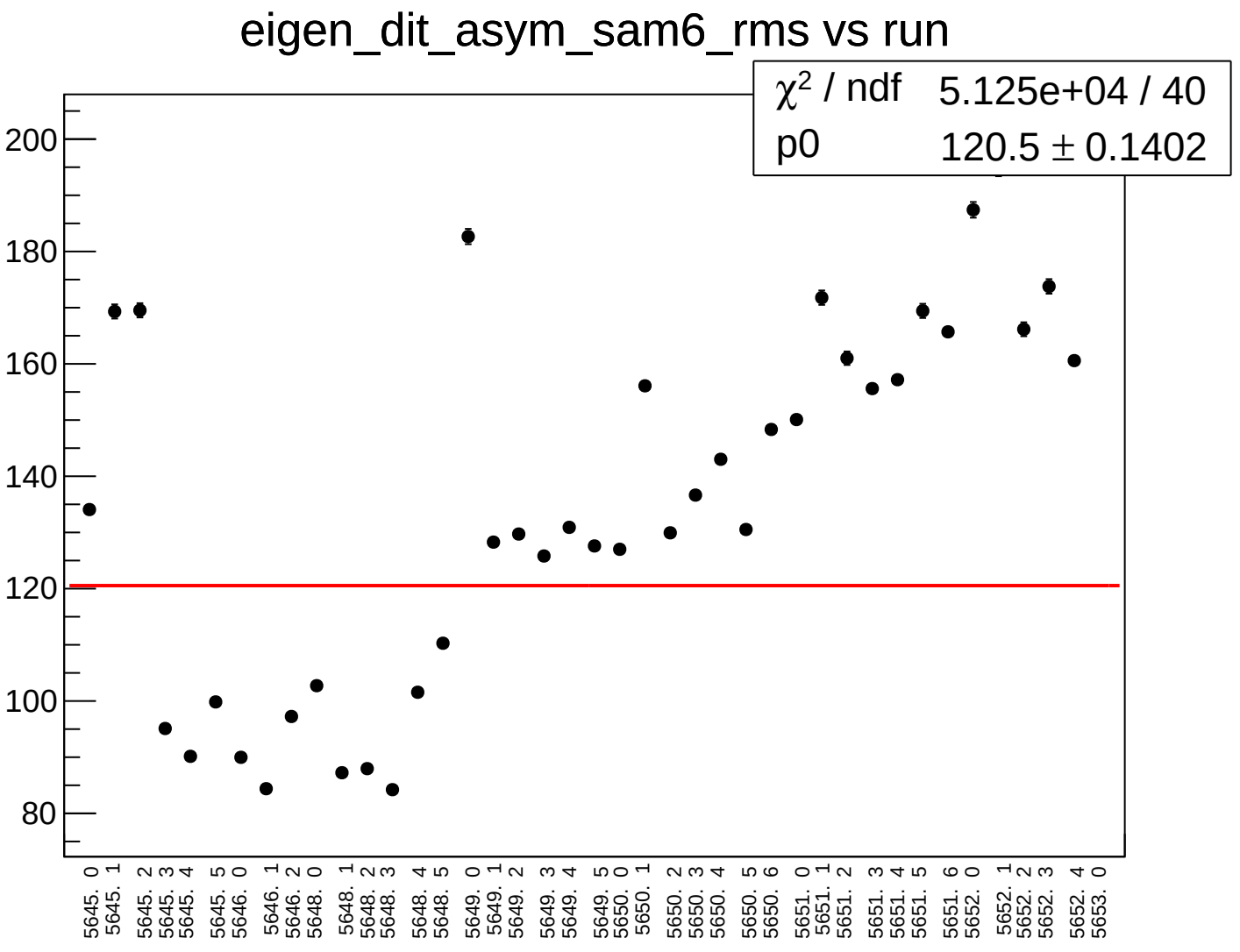
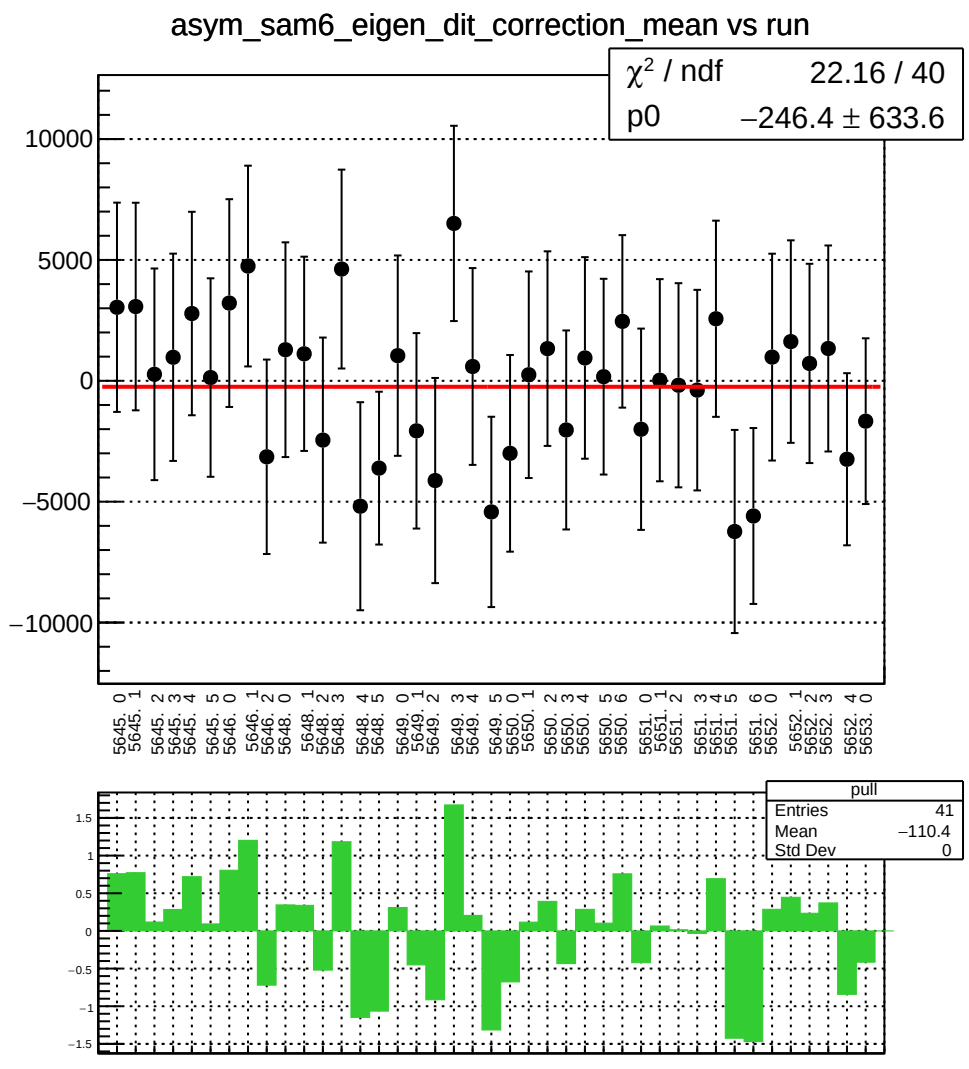
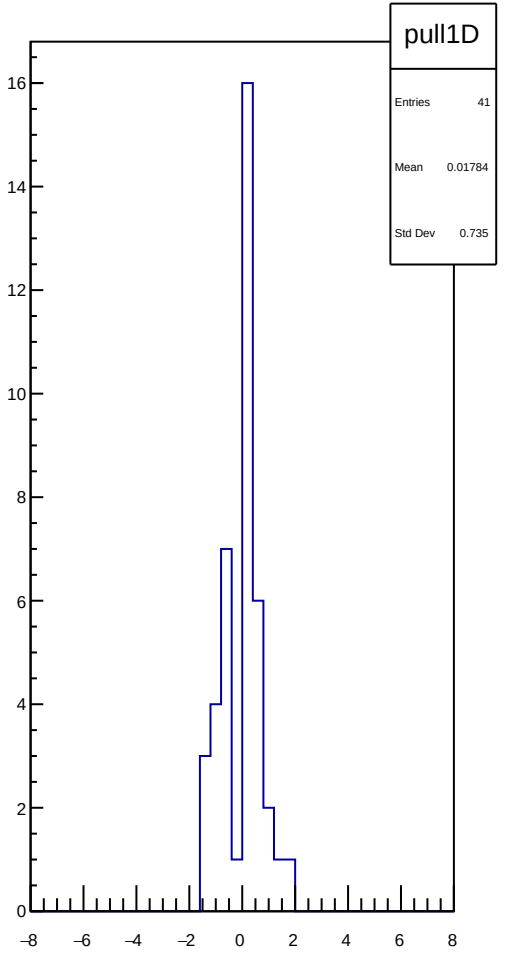
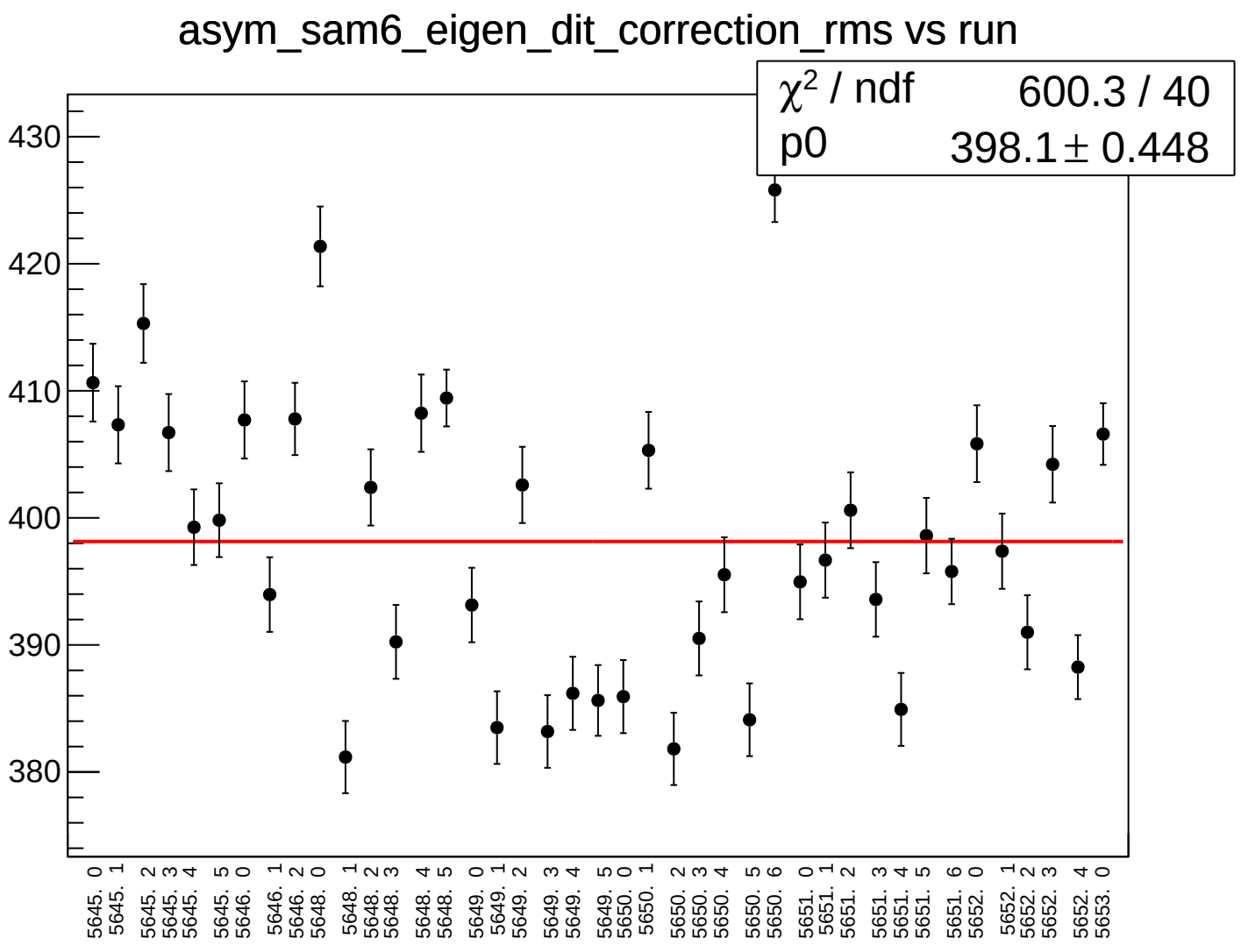
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 51.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

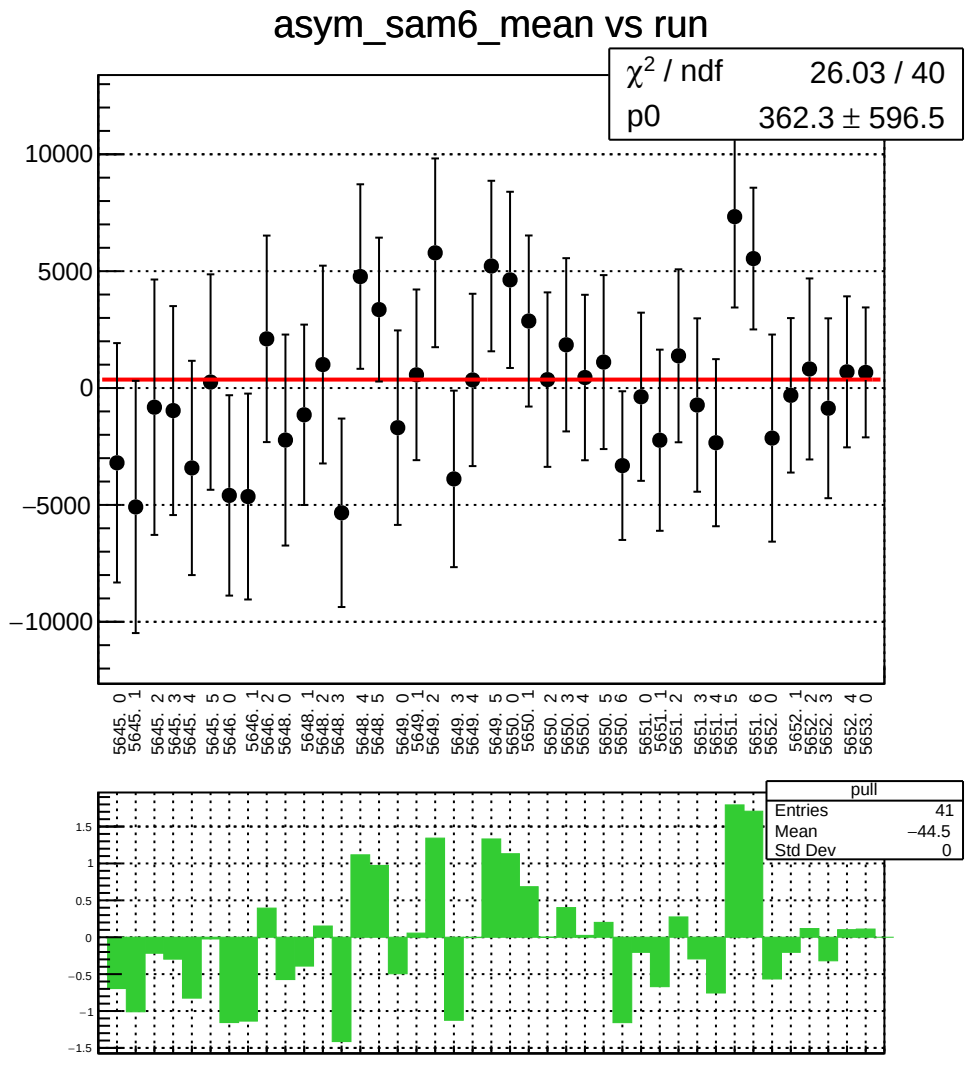

pull1D
Entries 41
Mean 0.0485
Std Dev 0.9176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

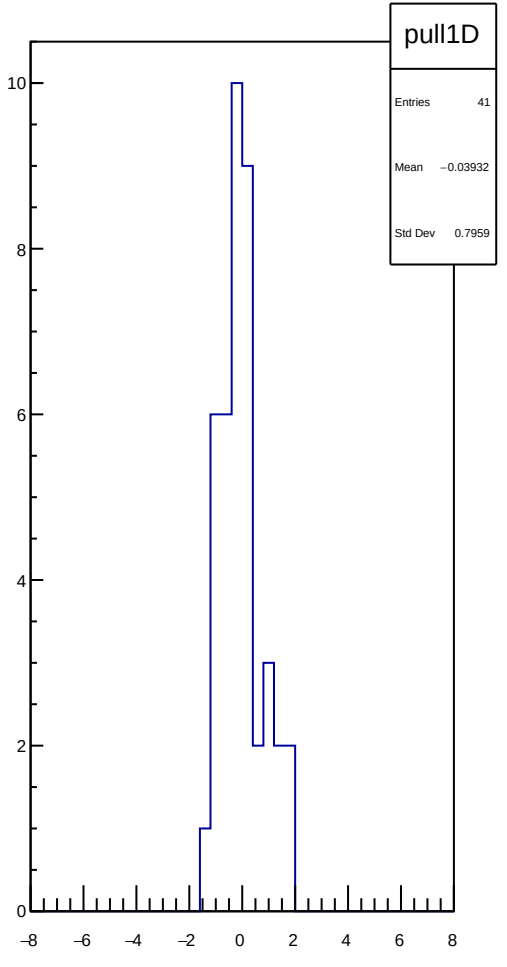

eigen_dit_asym_sam6_rms vs run
χ² / ndf 5.125e+04 / 40
p0 120.5 ± 0.1402
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

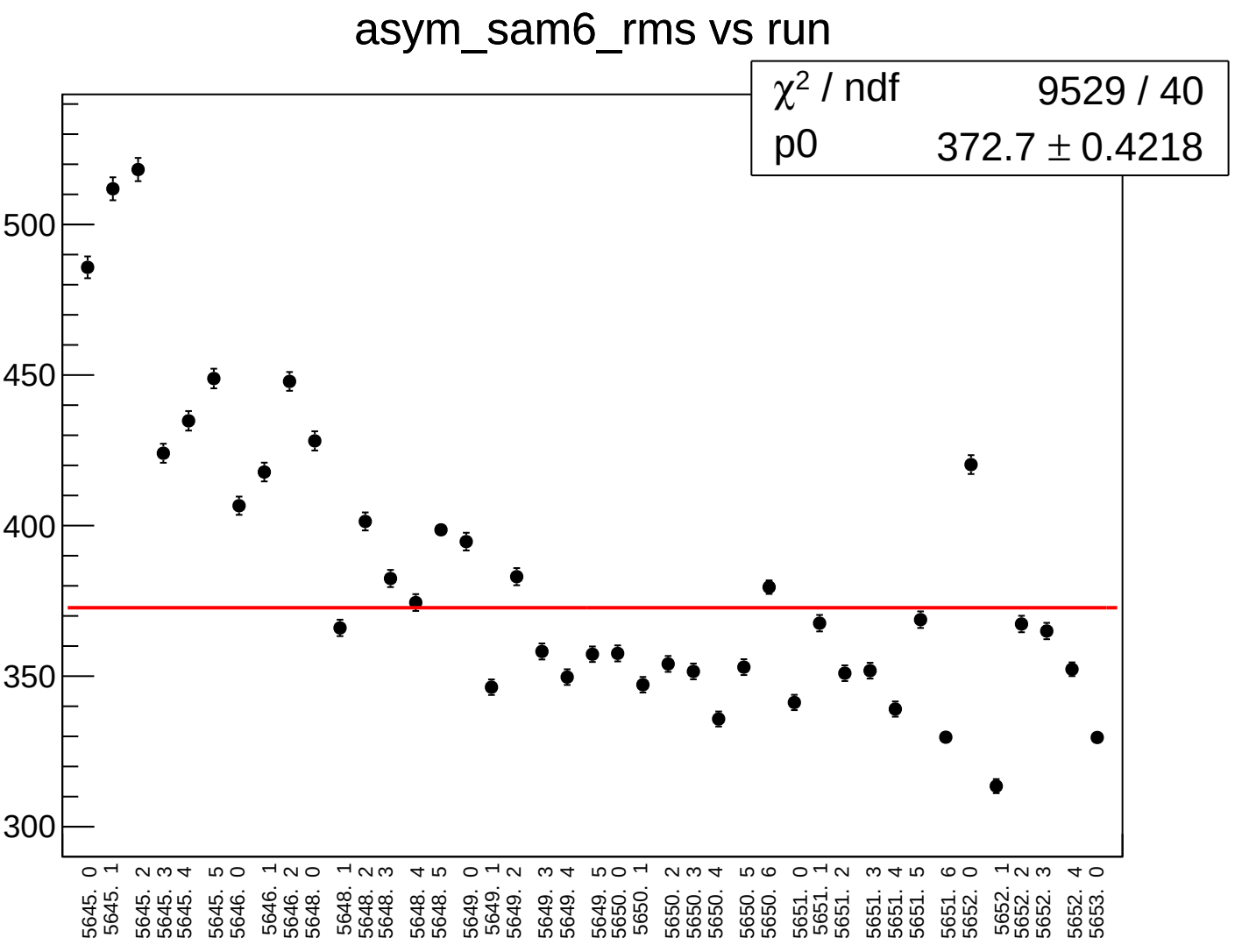

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 22.16 / 40
p0 −246.4 ± 633.6
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −110.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

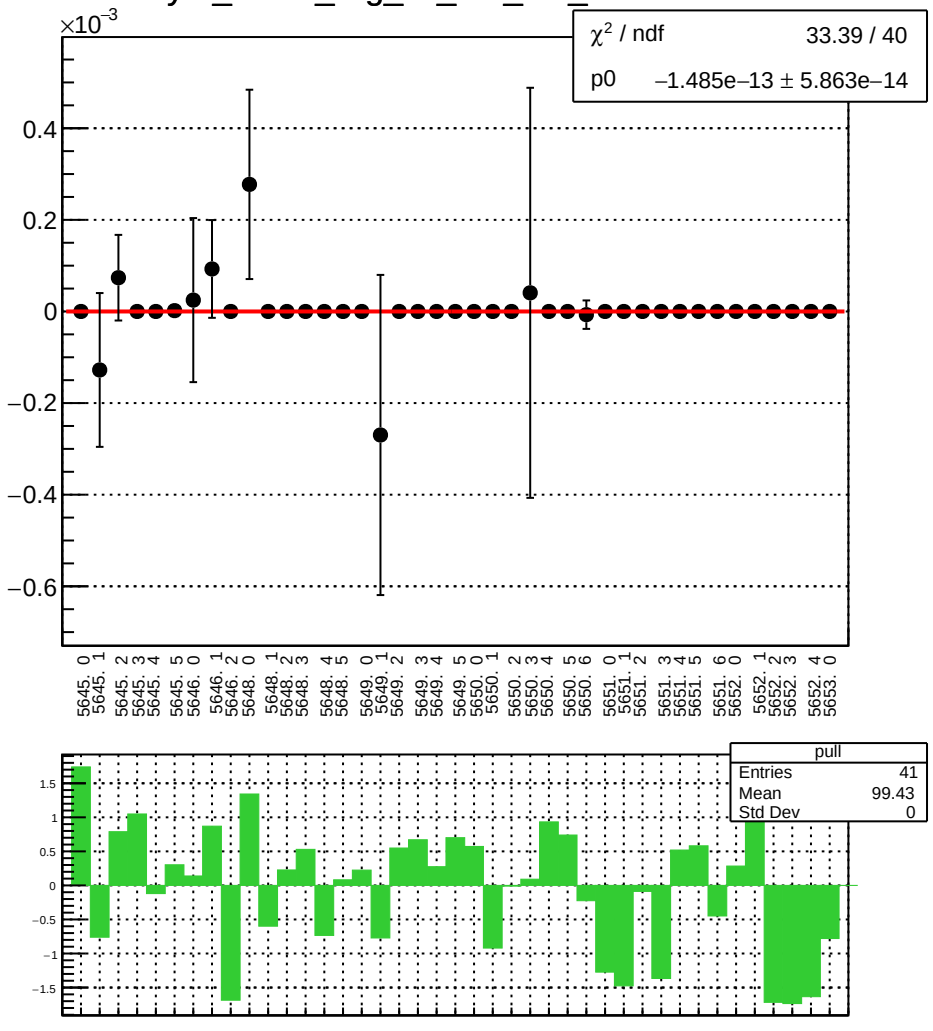

pull1D
Entries 41
Mean 0.01784
Std Dev 0.735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

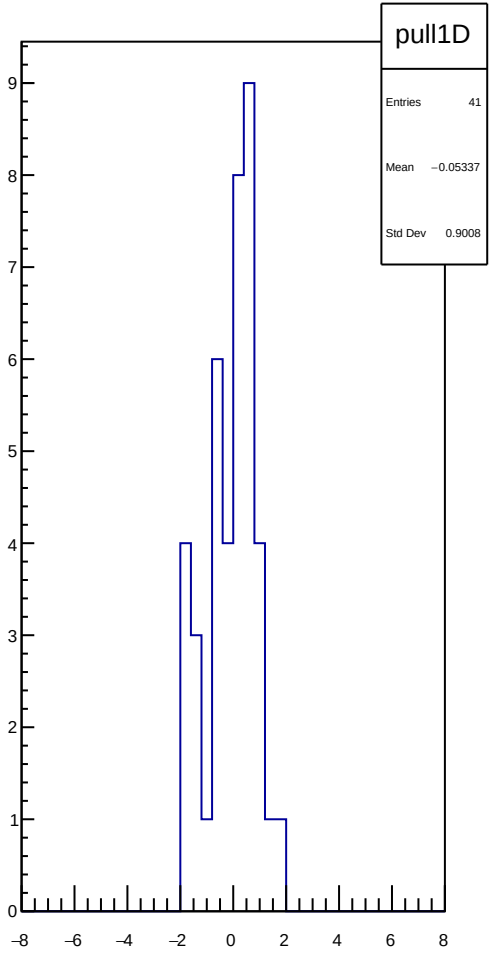

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 600.3 / 40
p0 398.1 ± 0.448
430
420
410
400
390
380
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

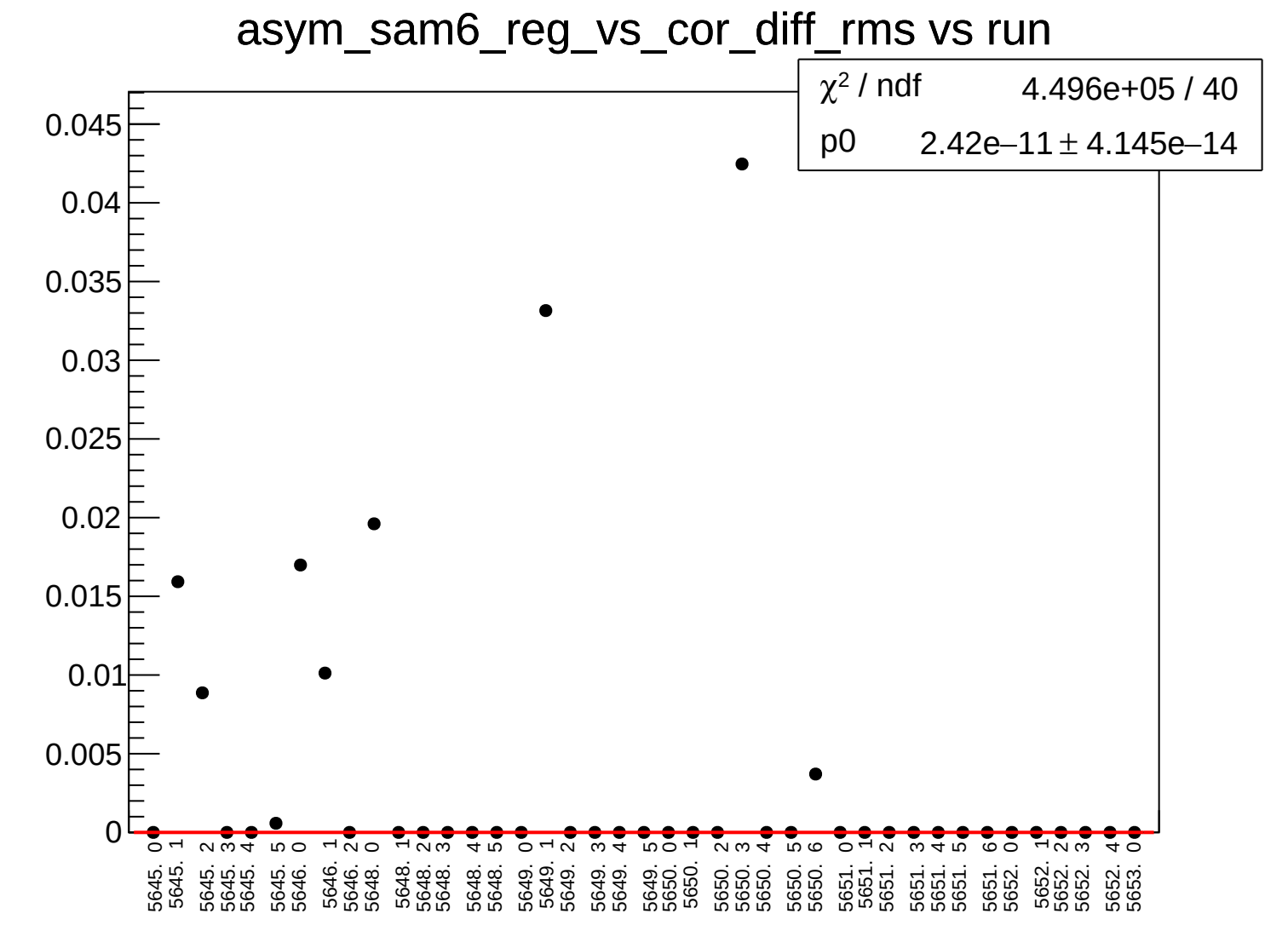

asym_sam6_mean vs run
χ² / ndf 26.03 / 40
p0 362.3 ± 596.5
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −44.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

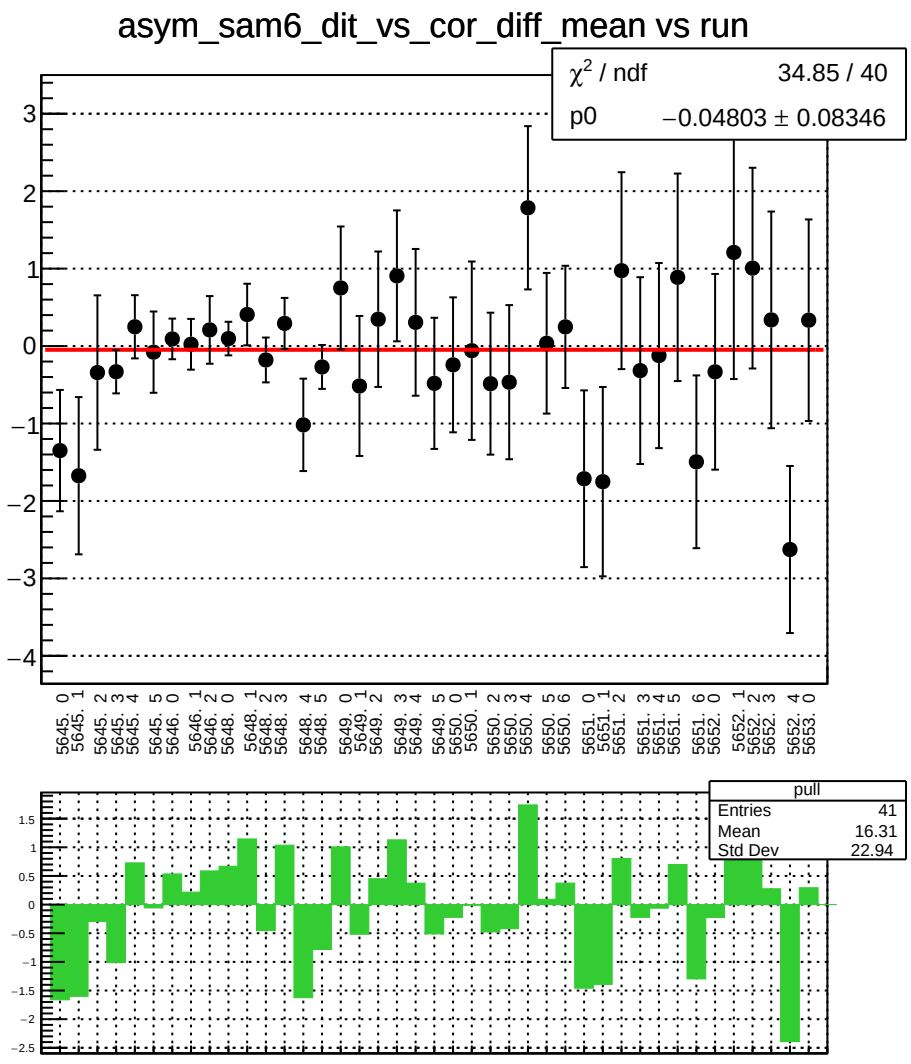

pull1D
Entries 41
Mean −0.03932
Std Dev 0.7959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

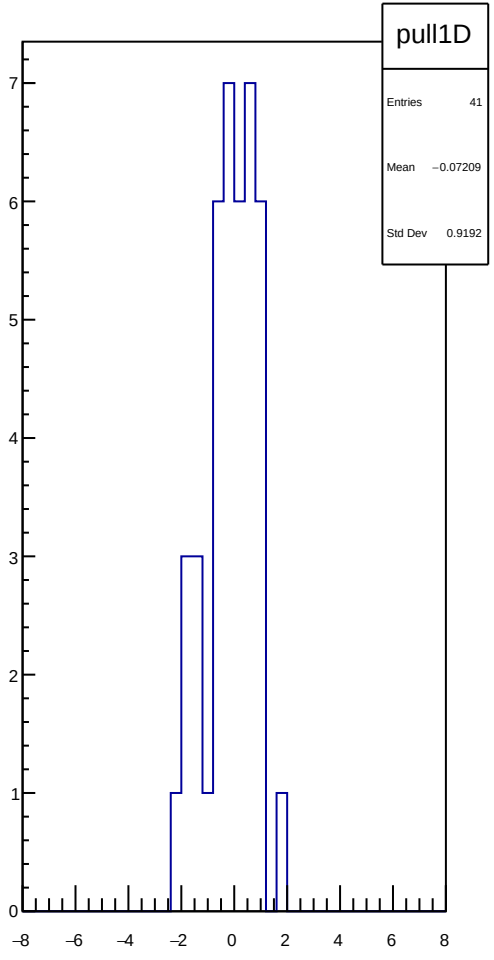

asym_sam6_rms vs run
χ² / ndf 9529 / 40
p0 372.7 ± 0.4218
500
450
400
350
300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

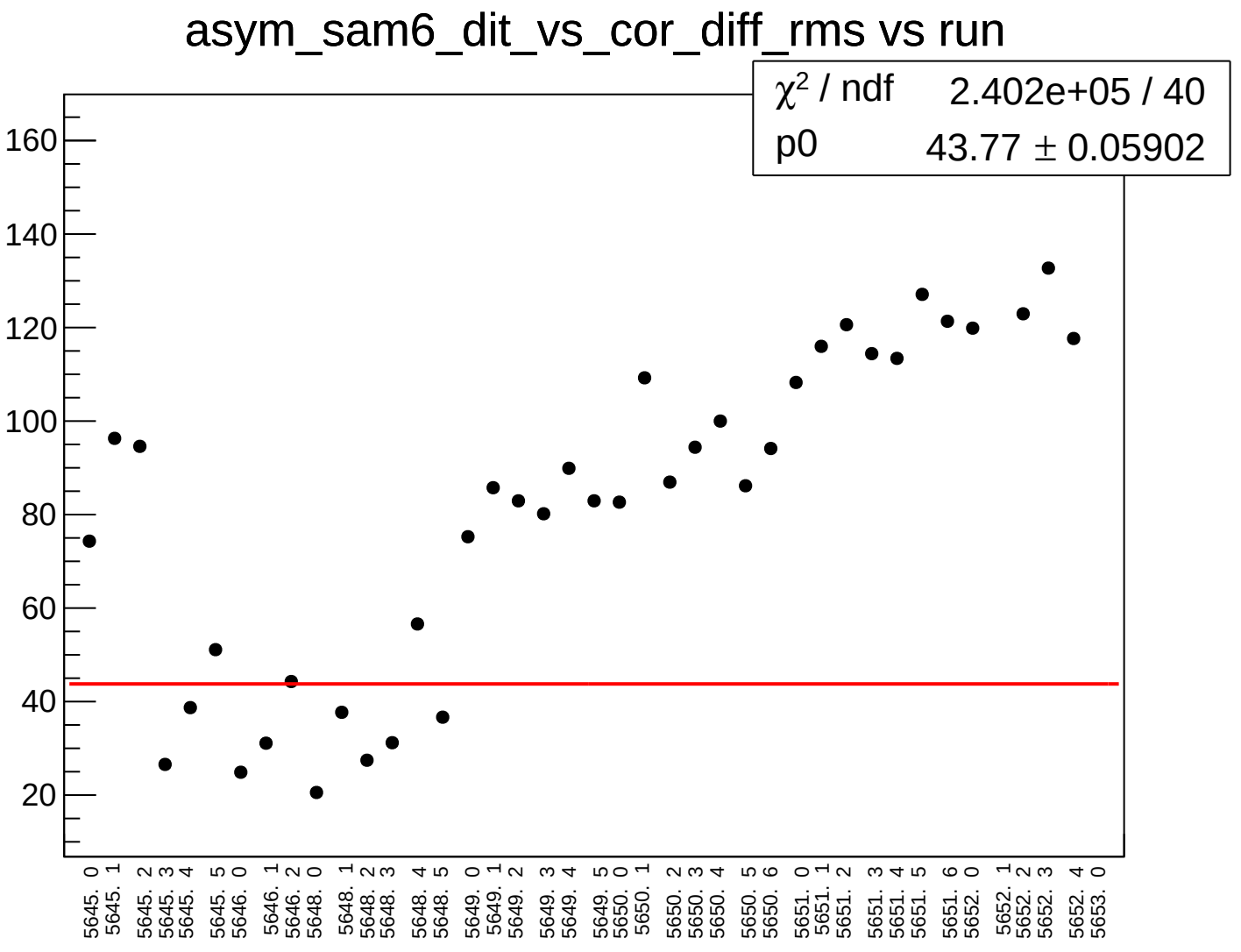

asym_sam6_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 33.39 / 40
p0 −1.485e−13 ± 5.863e−14
0.4
0.2
0
−0.2
−0.4
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 99.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

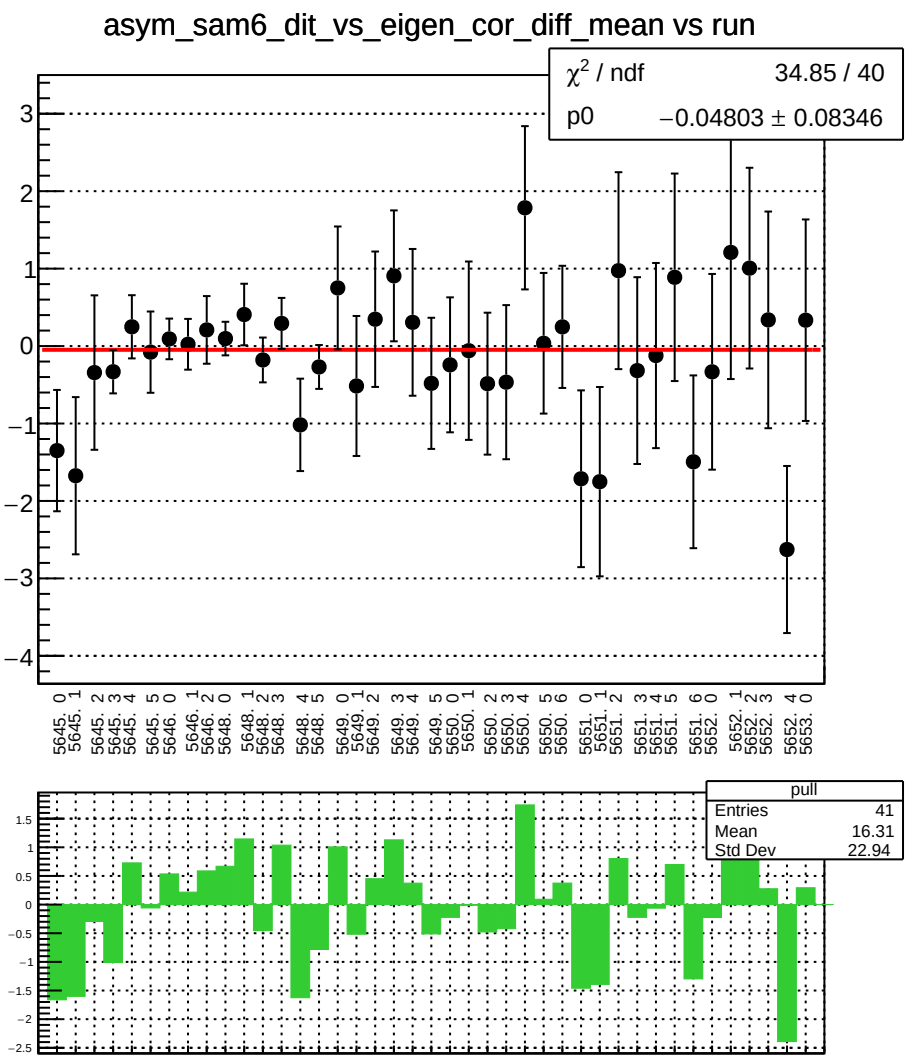

pull1D
Entries 41
Mean −0.05337
Std Dev 0.9008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

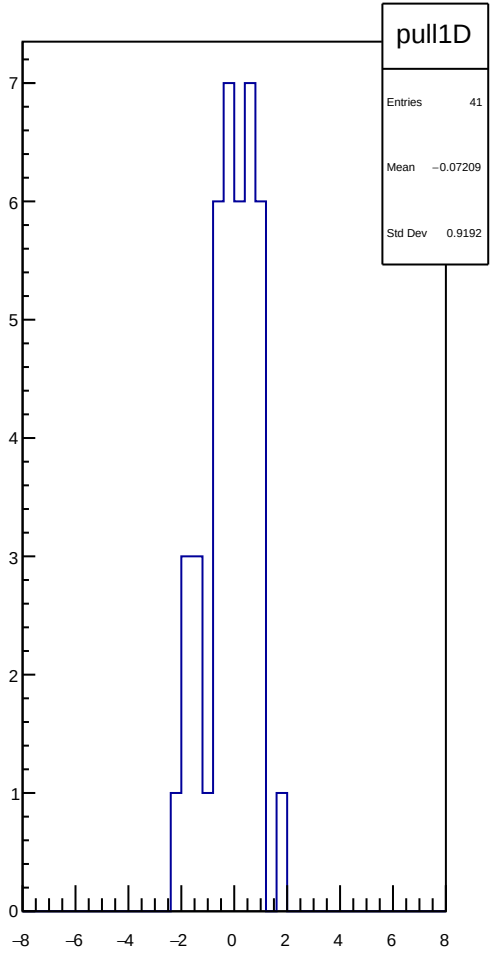

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 4.496e+05 / 40
p0 2.42e−11 ± 4.145e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

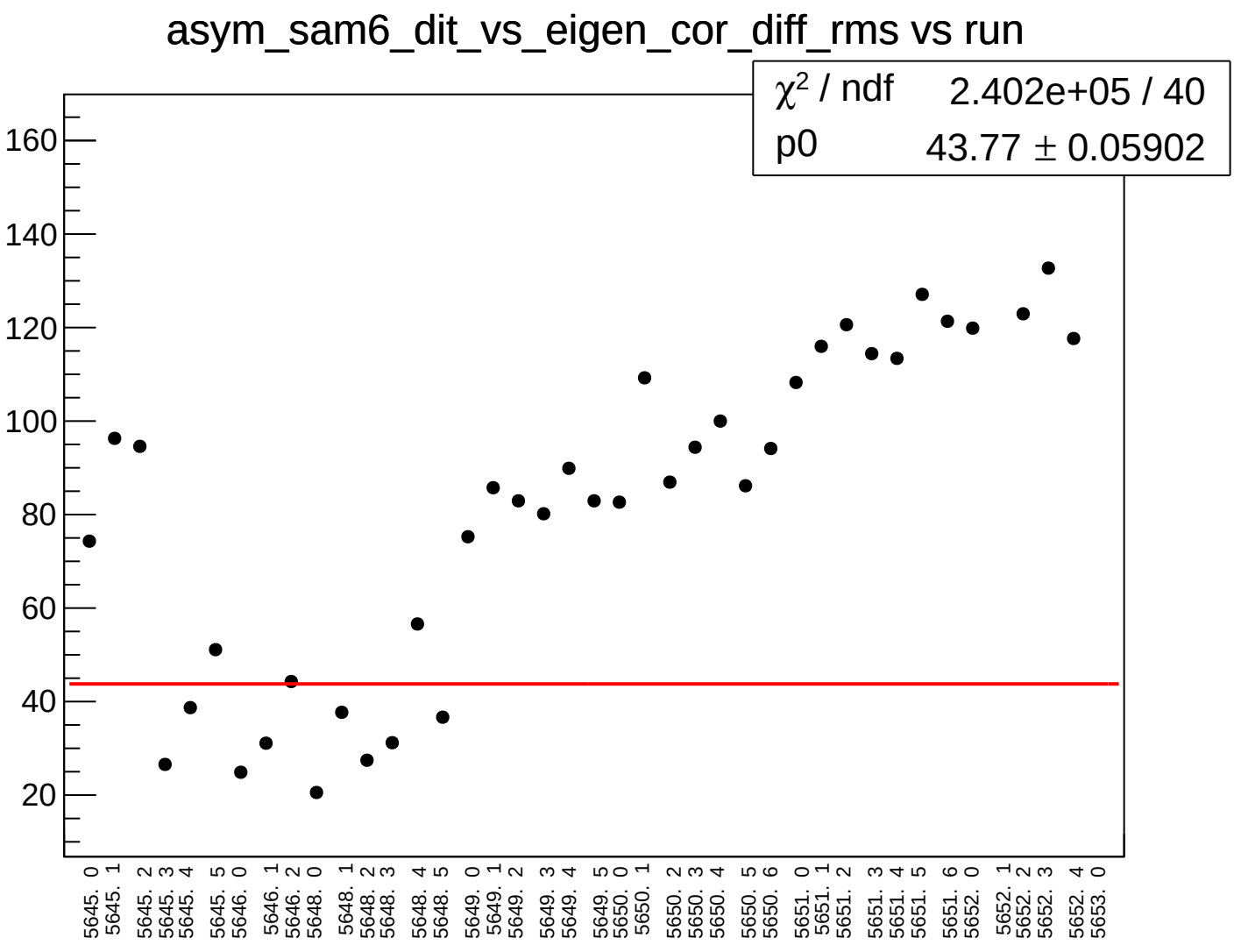

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 34.85 / 40
p0 −0.04803 ± 0.08346
pull
Entries 41
Mean 16.31
Std Dev 22.94

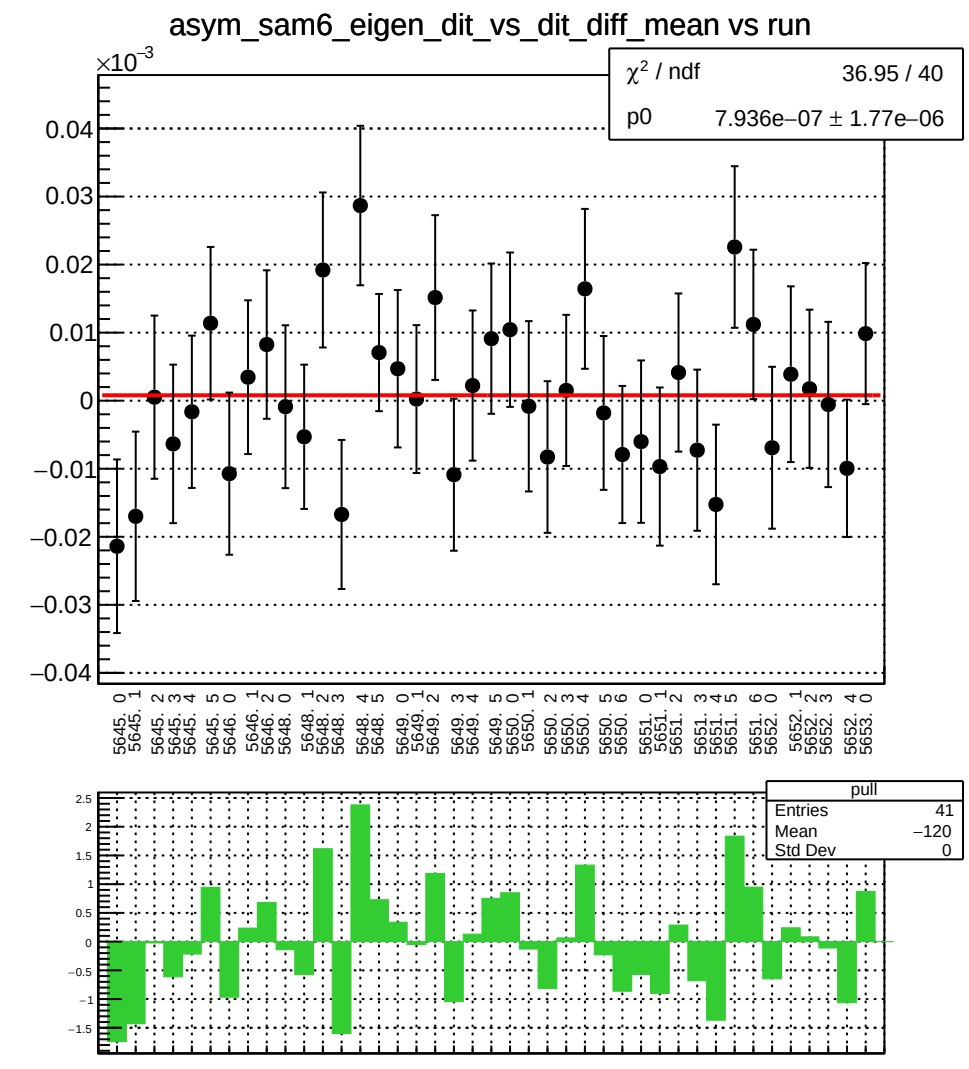

pull1D
Entries 41
Mean −0.07209
Std Dev 0.9192

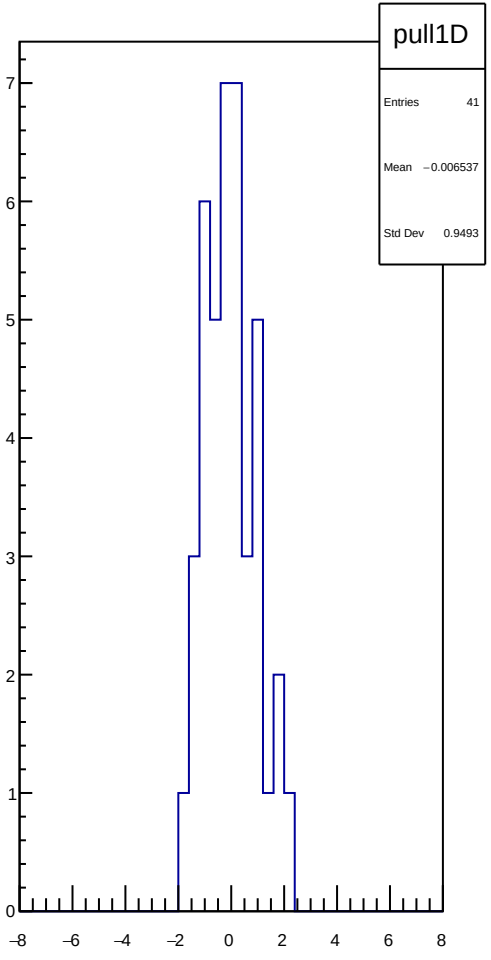

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.402e+05 / 40
p0 43.77 ± 0.05902
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

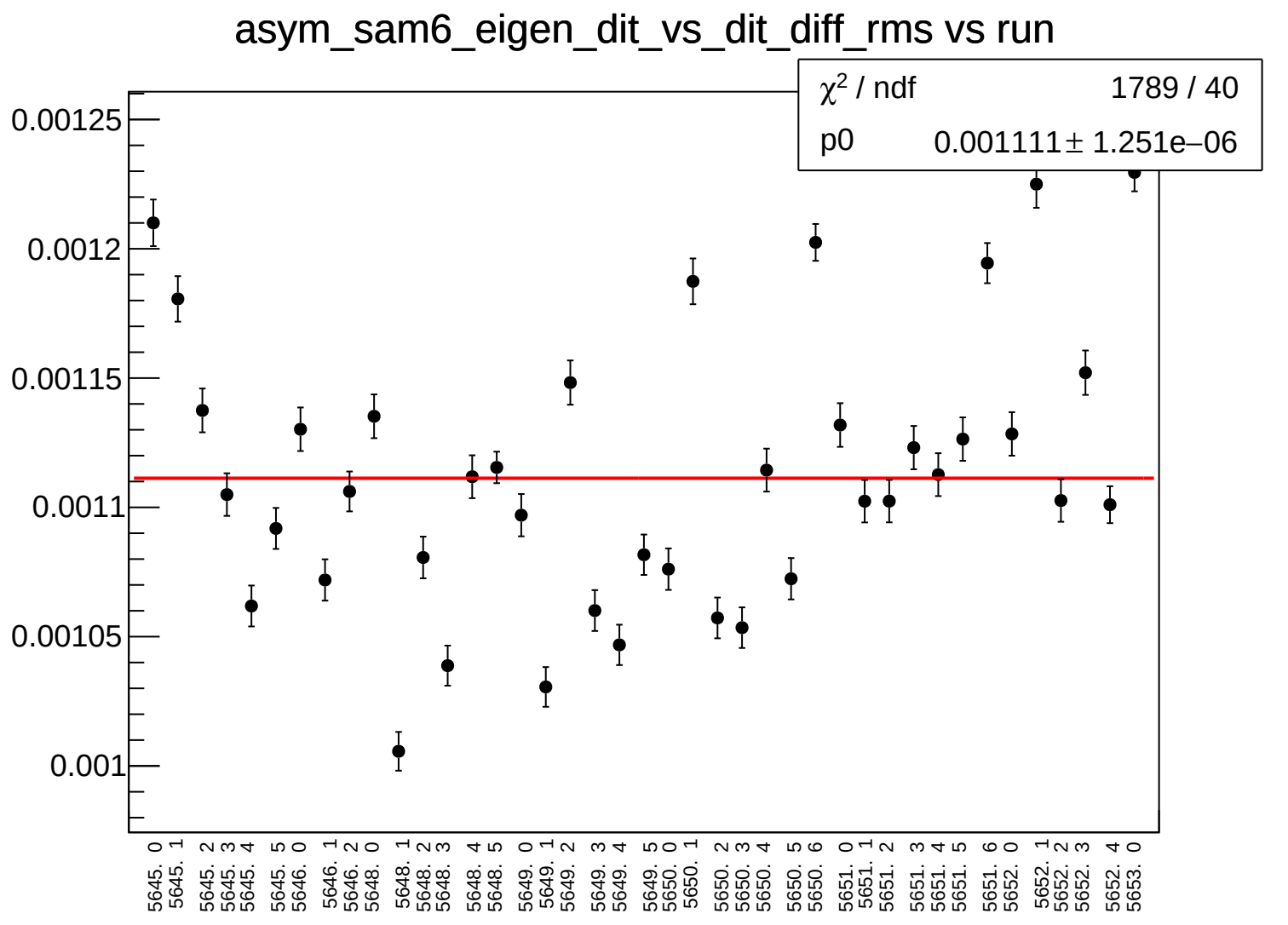

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.85 / 40
p0 −0.04803 ± 0.08346
pull
Entries 41
Mean 16.31
Std Dev 22.94

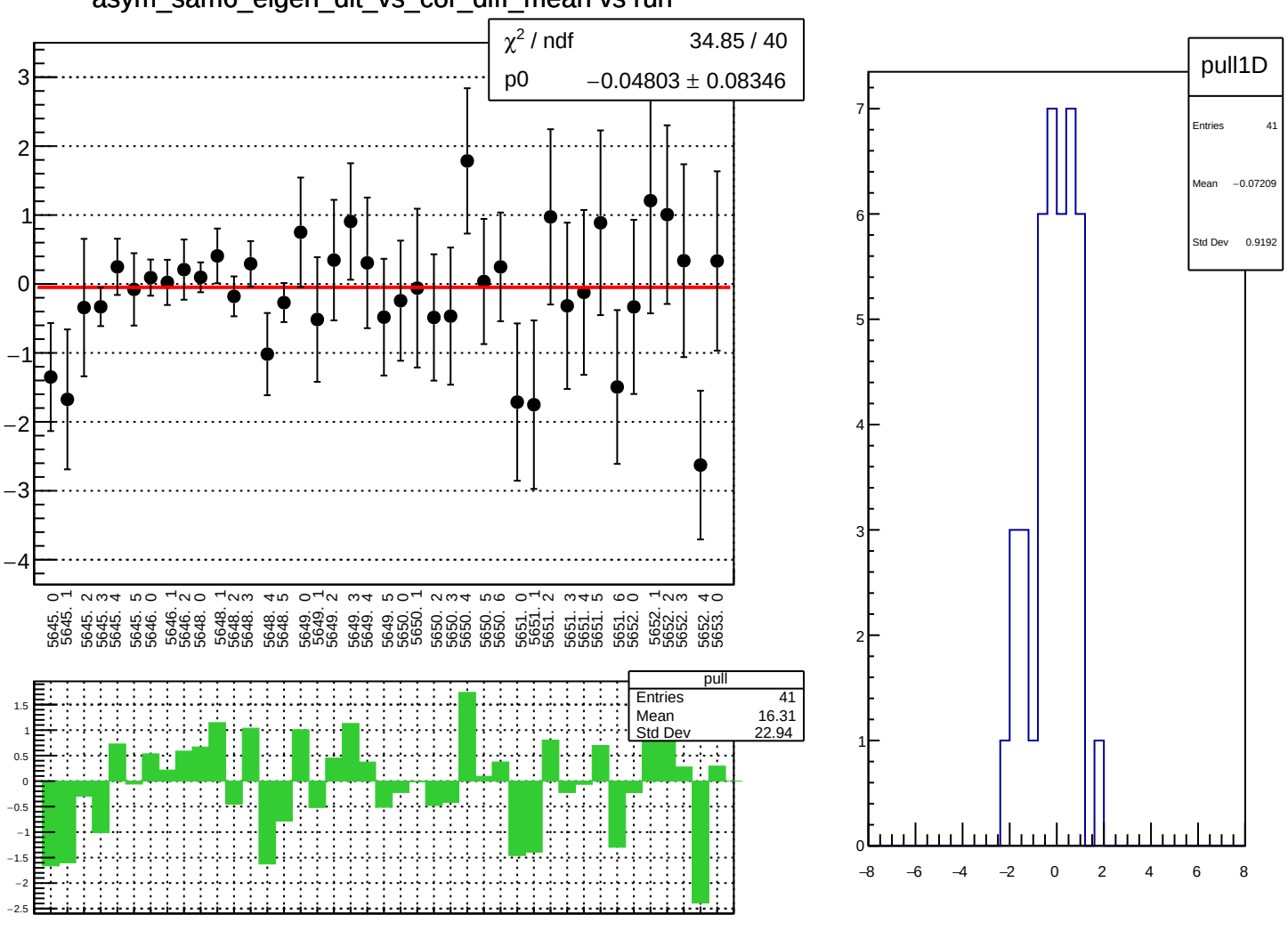

pull1D
Entries 41
Mean −0.07209
Std Dev 0.9192

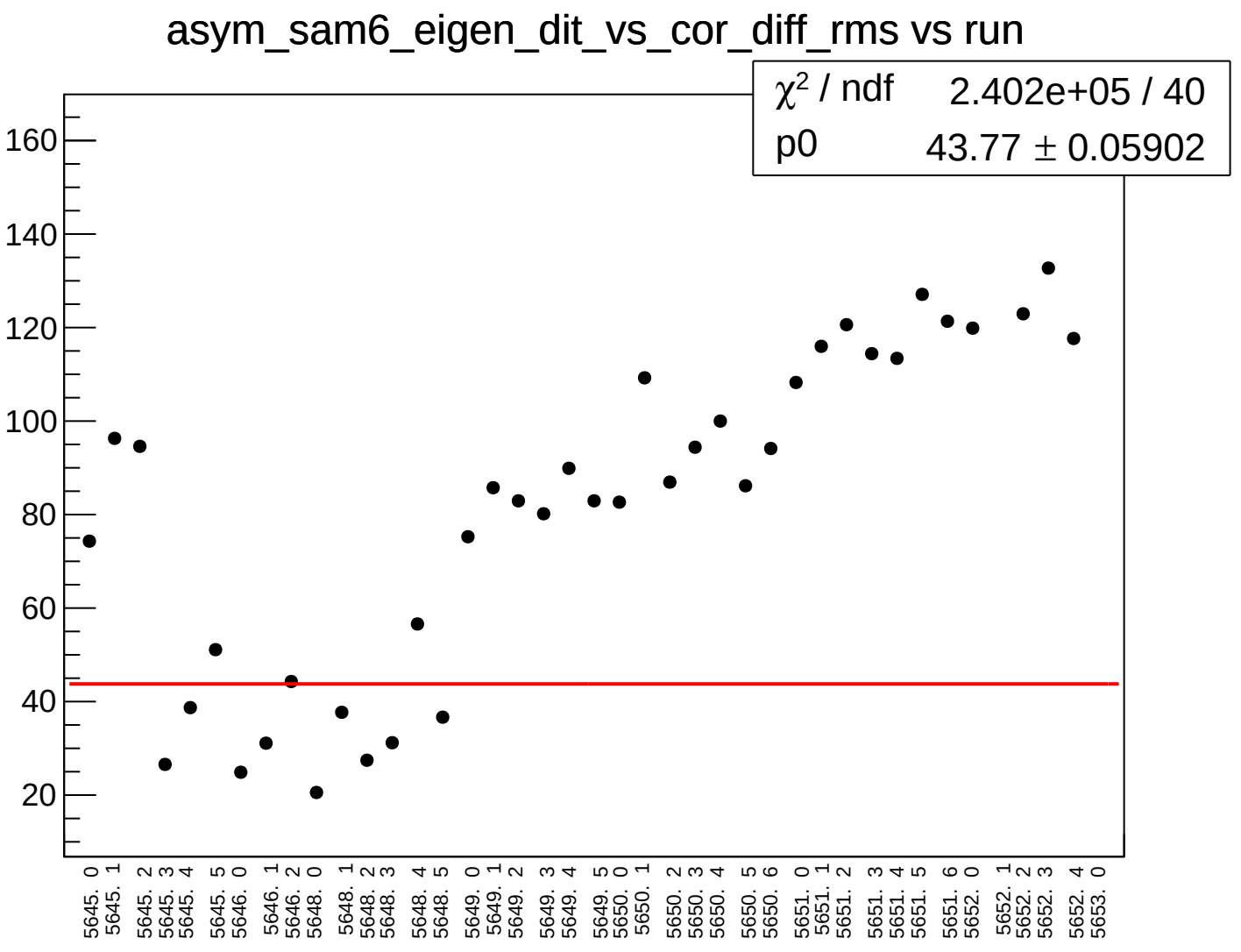

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.402e+05 / 40
p0 43.77 ± 0.05902
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

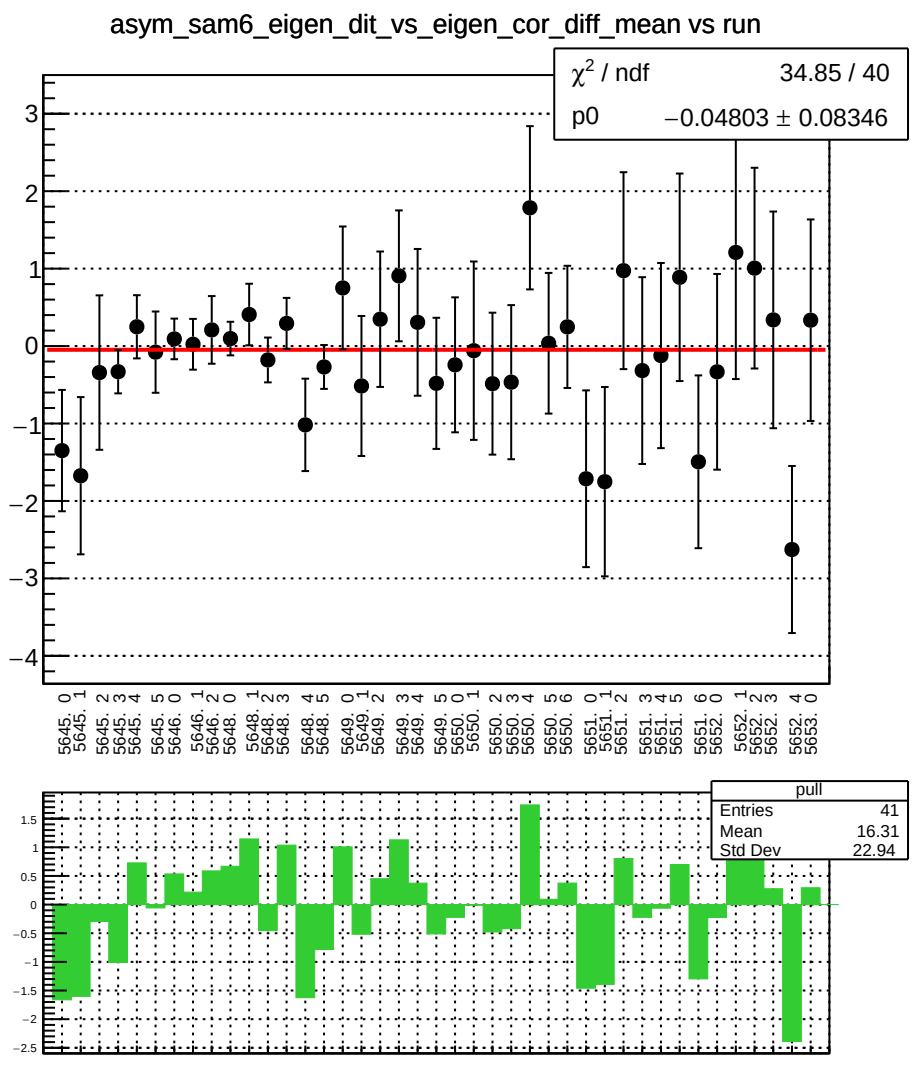

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.95 / 40
p0 7.936e−07 ± 1.77e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −120
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

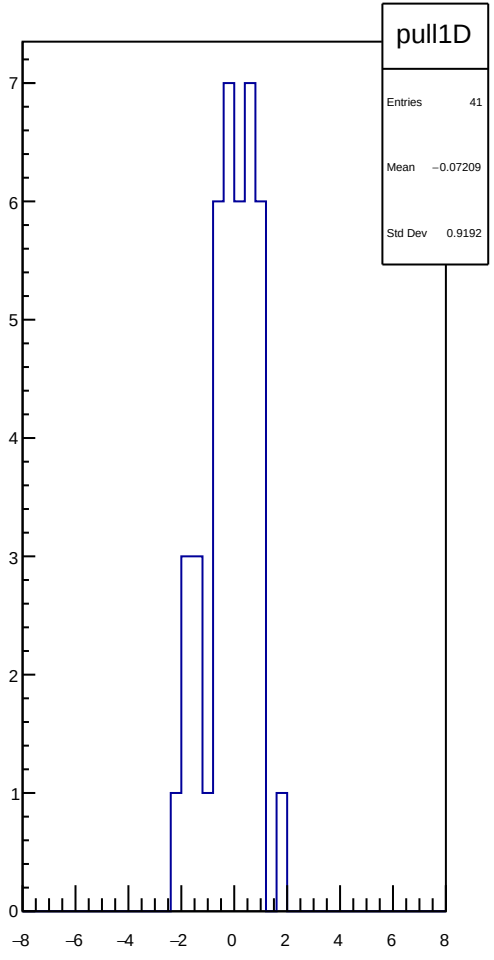

pull1D
Entries 41
Mean −0.006537
Std Dev 0.9493
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

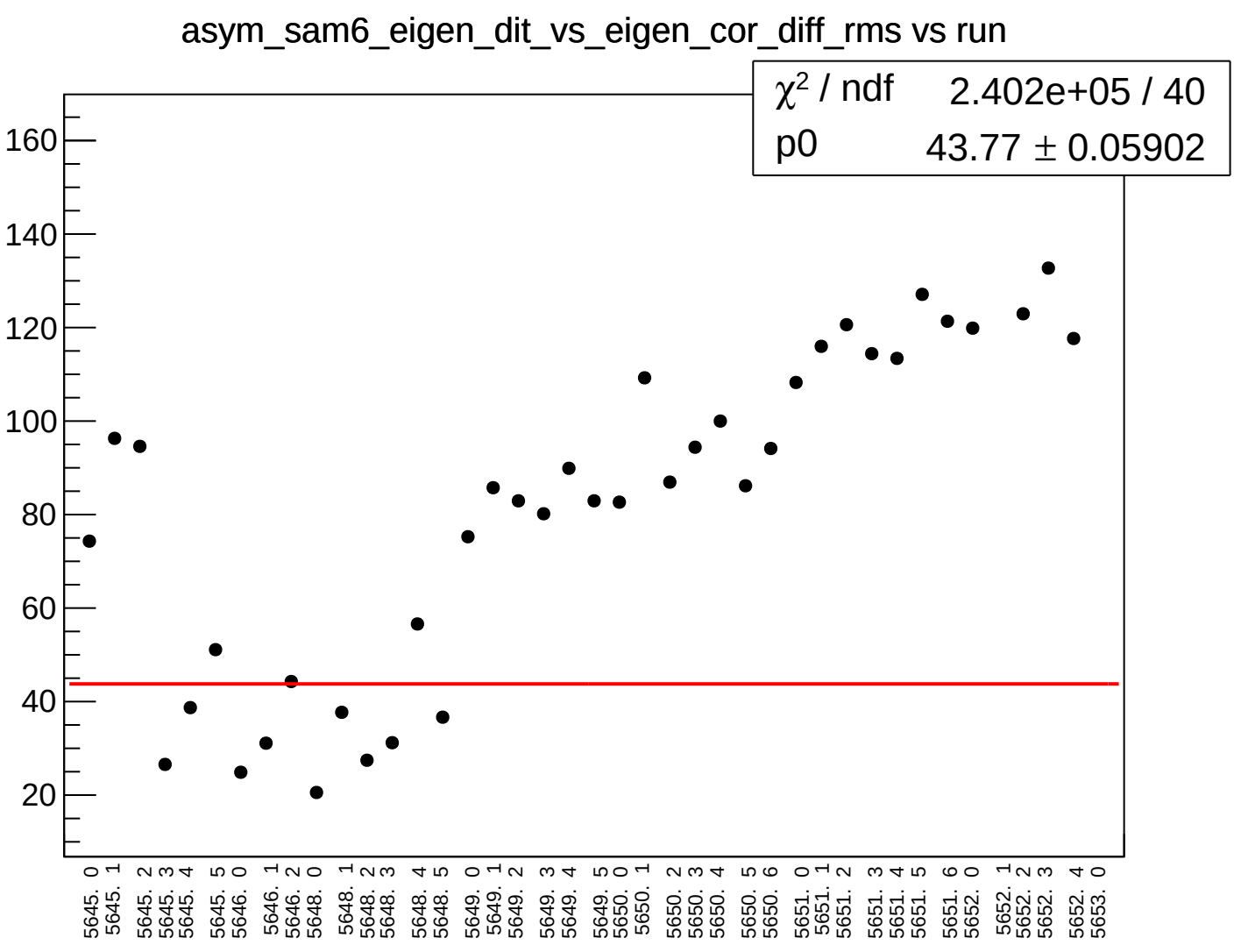

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1789 / 40
p0 0.001111 ± 1.251e−06
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.85 / 40
p0 −0.04803 ± 0.08346
pull
Entries 41
Mean 16.31
Std Dev 22.94
pull1D
Entries 41
Mean −0.07209
Std Dev 0.9192


asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.402e+05 / 40
p0 43.77 ± 0.05902
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.85 / 40
p0 −0.04803 ± 0.08346
pull
Entries 41
Mean 16.31
Std Dev 22.94


pull1D
Entries 41
Mean −0.07209
Std Dev 0.9192


asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.402e+05 / 40
p0 43.77 ± 0.05902
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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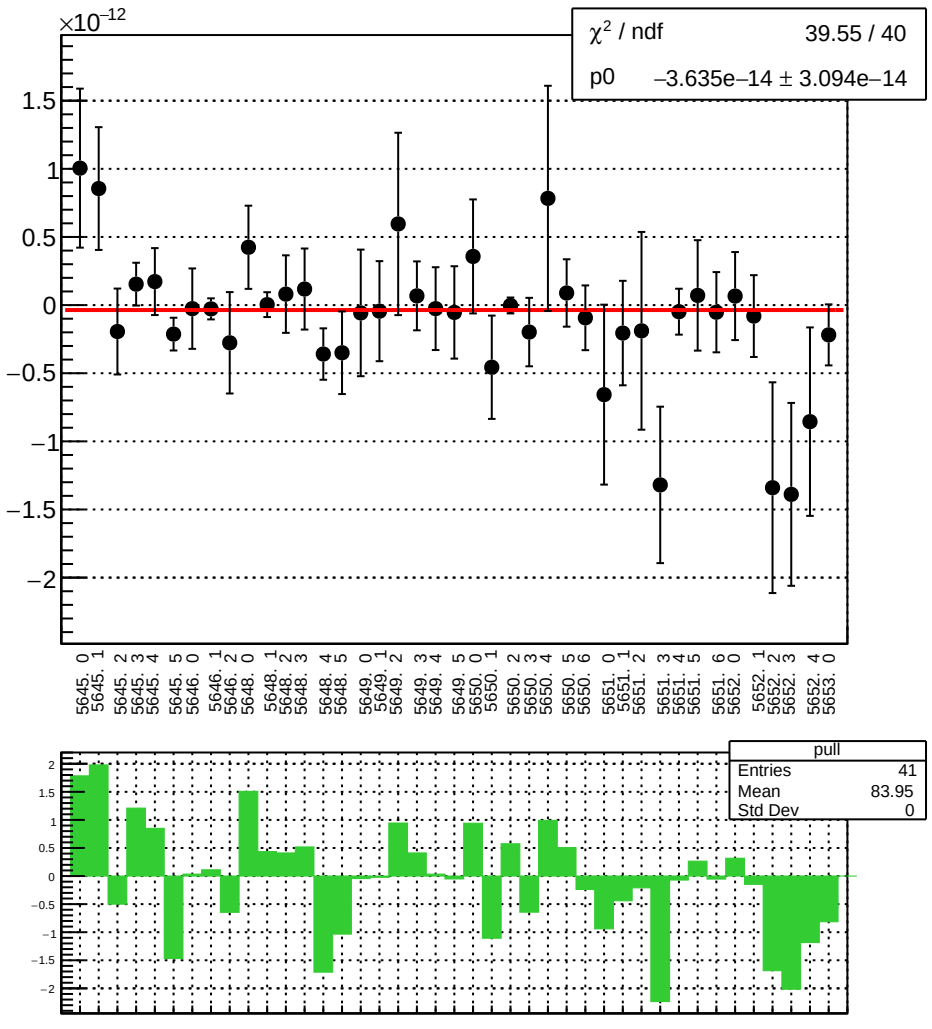
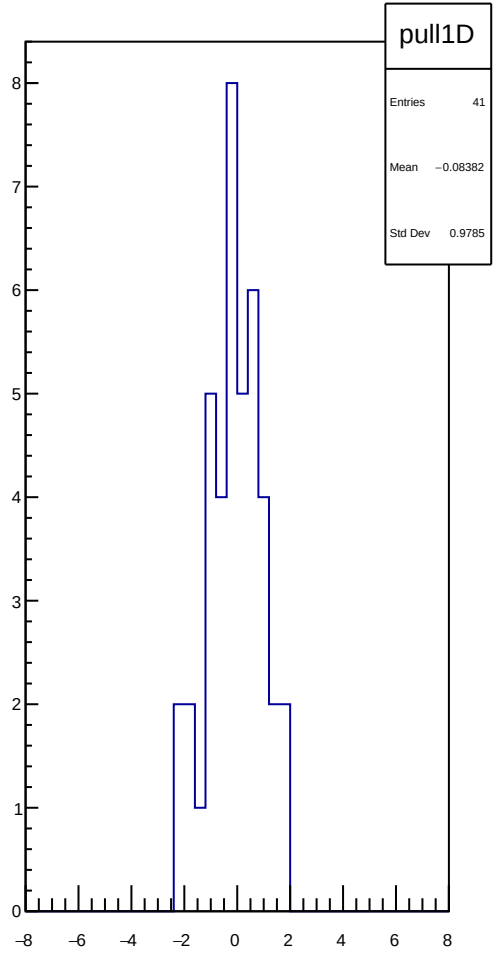
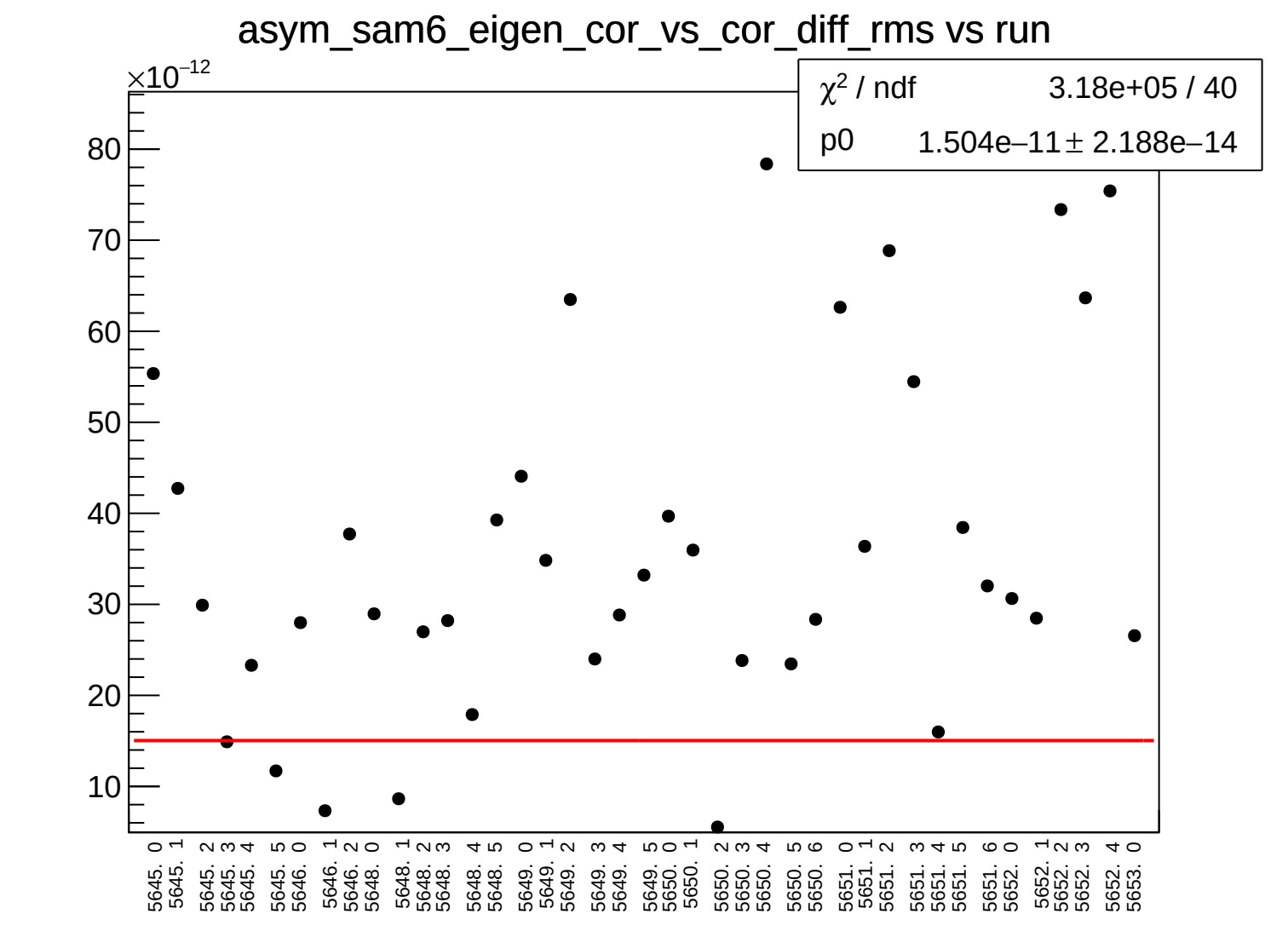
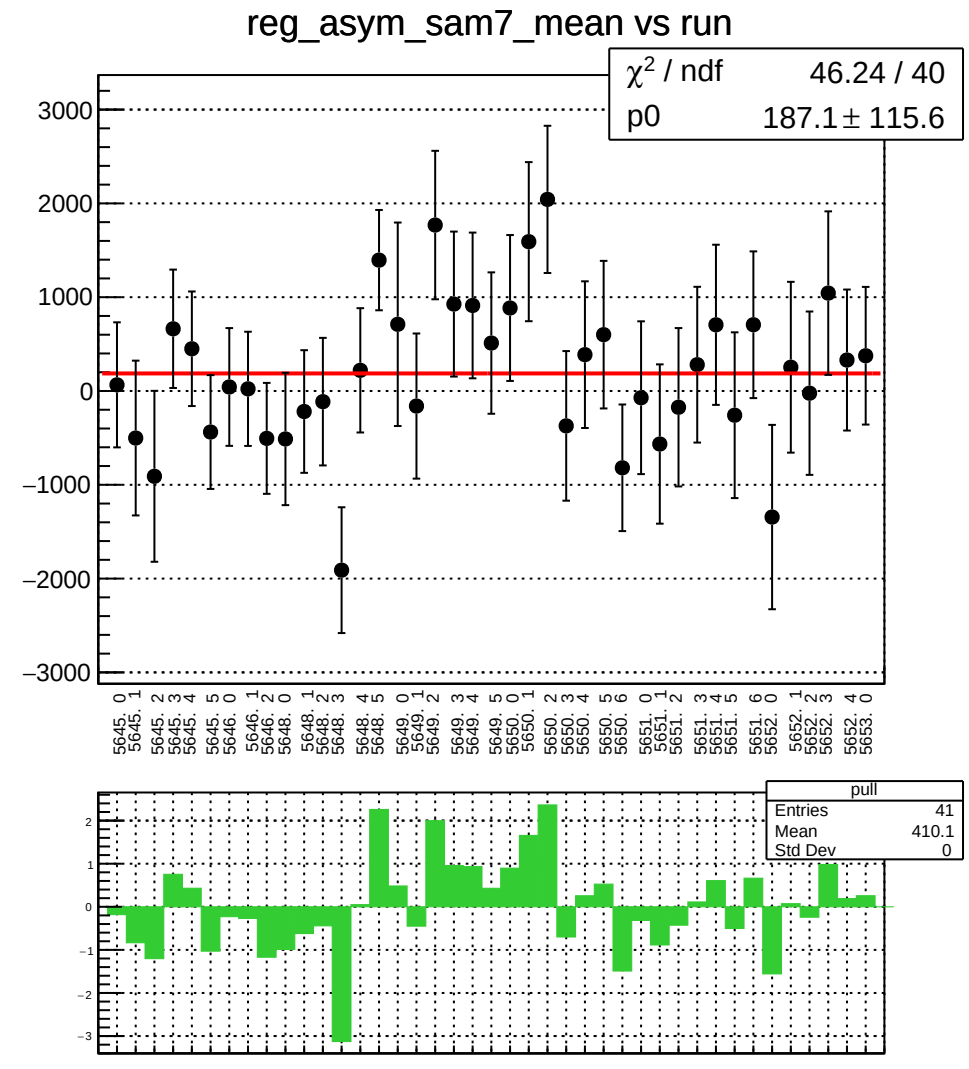
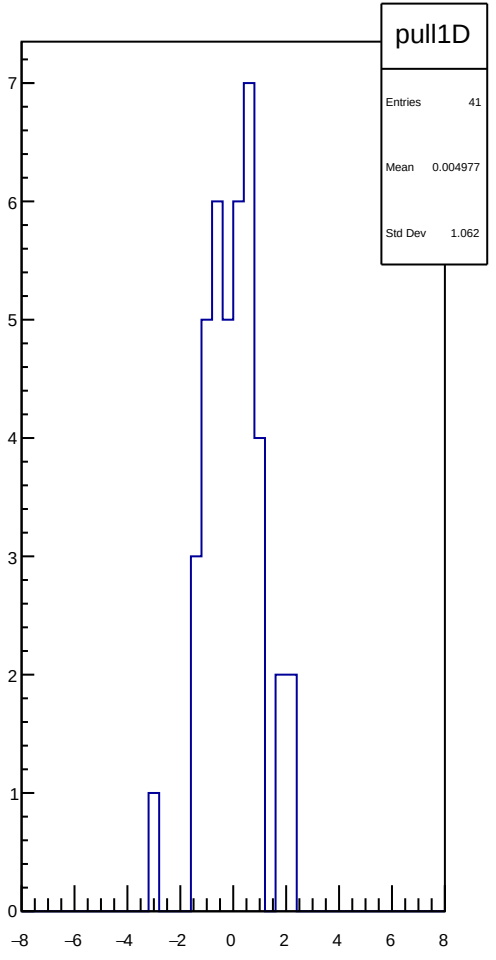
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

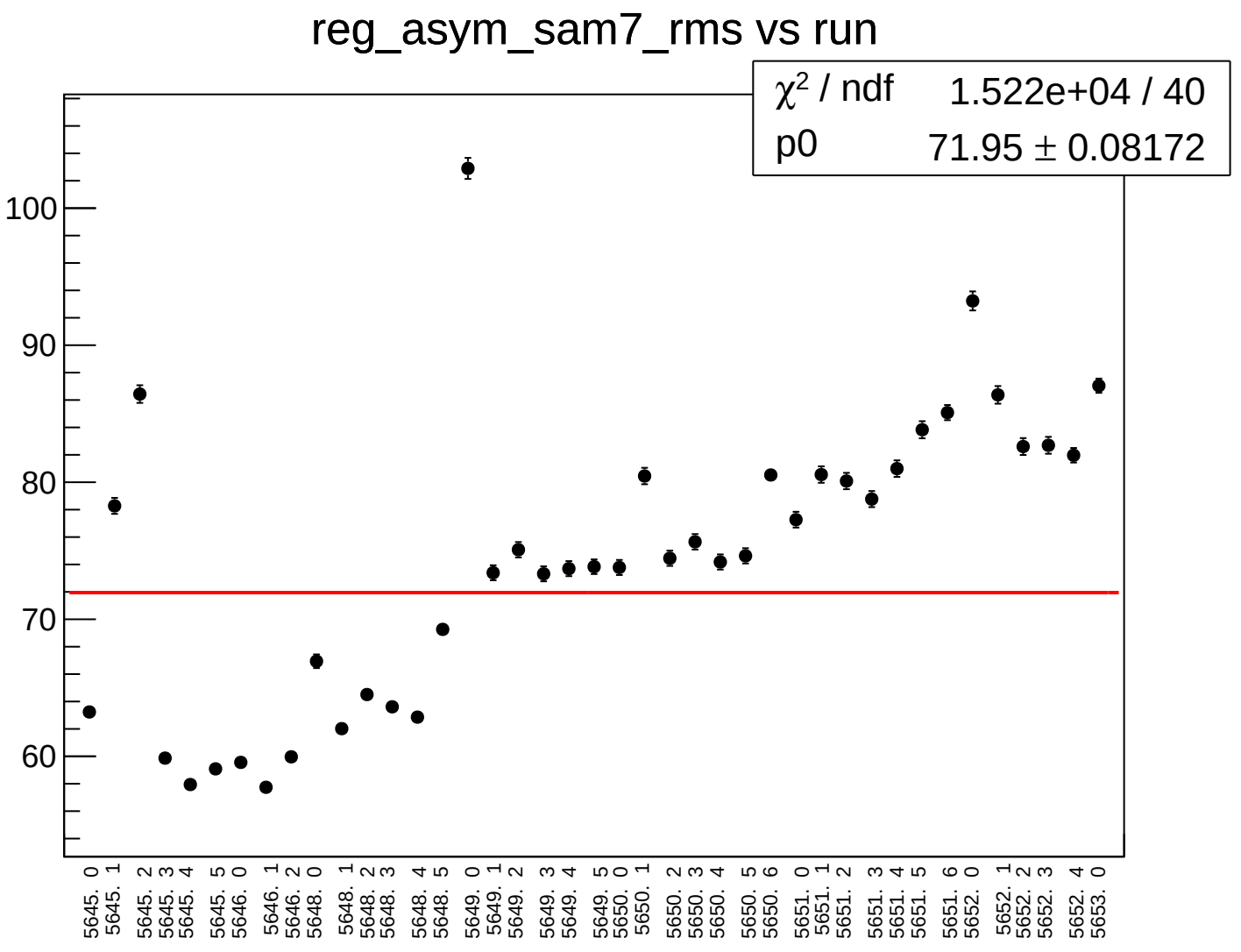

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.55 / 40
p0 −3.635e−14 ± 3.094e−14
pull
Entries 41
Mean 83.95
Std Dev 0

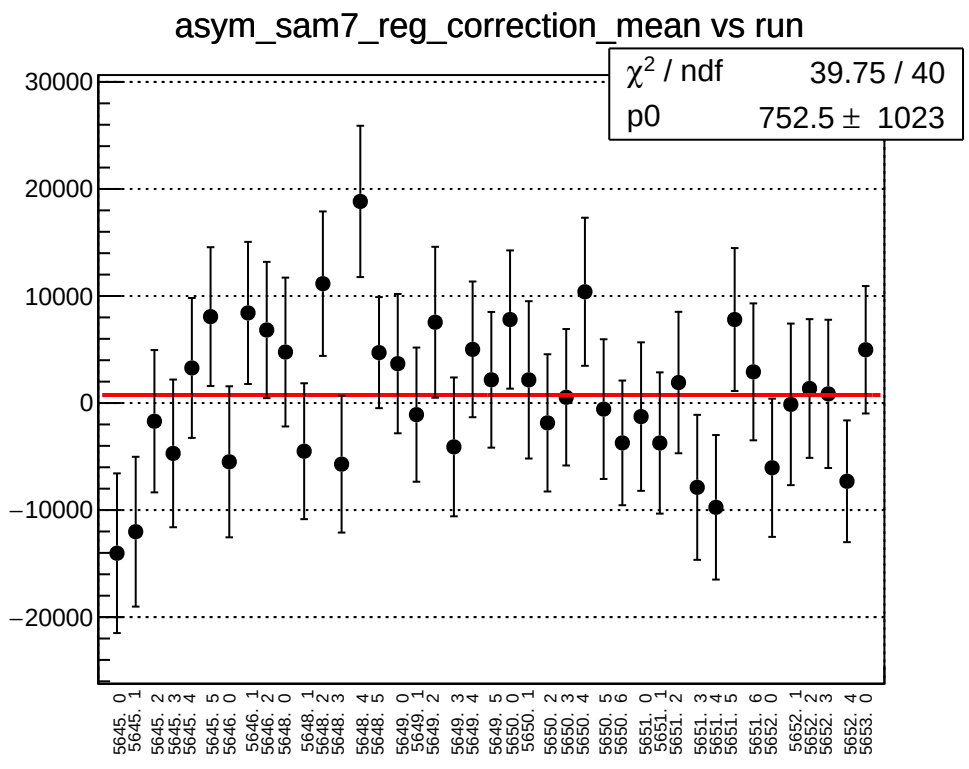

pull1D
Entries 41
Mean −0.08382
Std Dev 0.9785

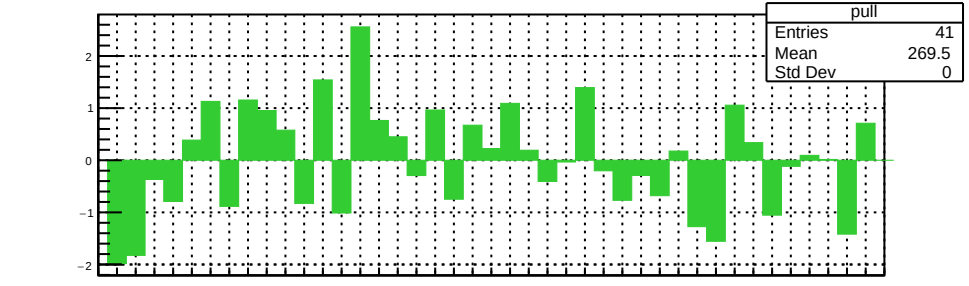

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.18e+05 / 40
p0 1.504e−11 ± 2.188e−14
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

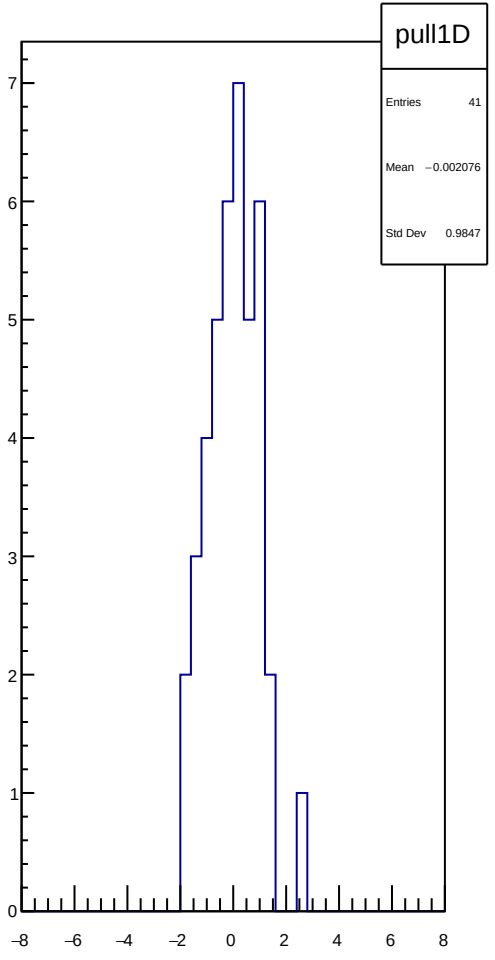

reg_asym_sam7_mean vs run
χ² / ndf 46.24 / 40
p0 187.1 ± 115.6
pull
Entries 41
Mean 410.1
Std Dev 0

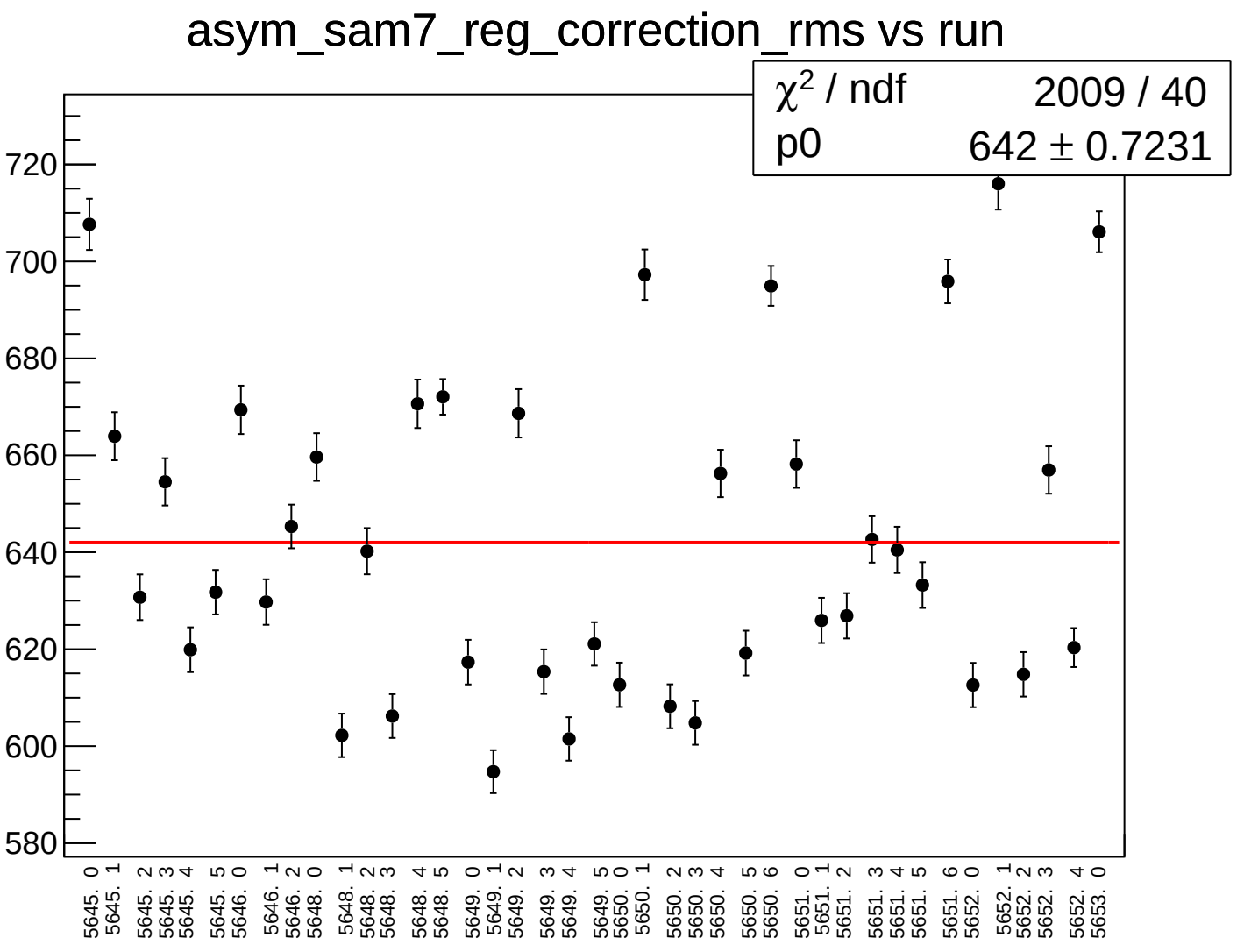

pull1D
Entries 41
Mean 0.004977
Std Dev 1.062

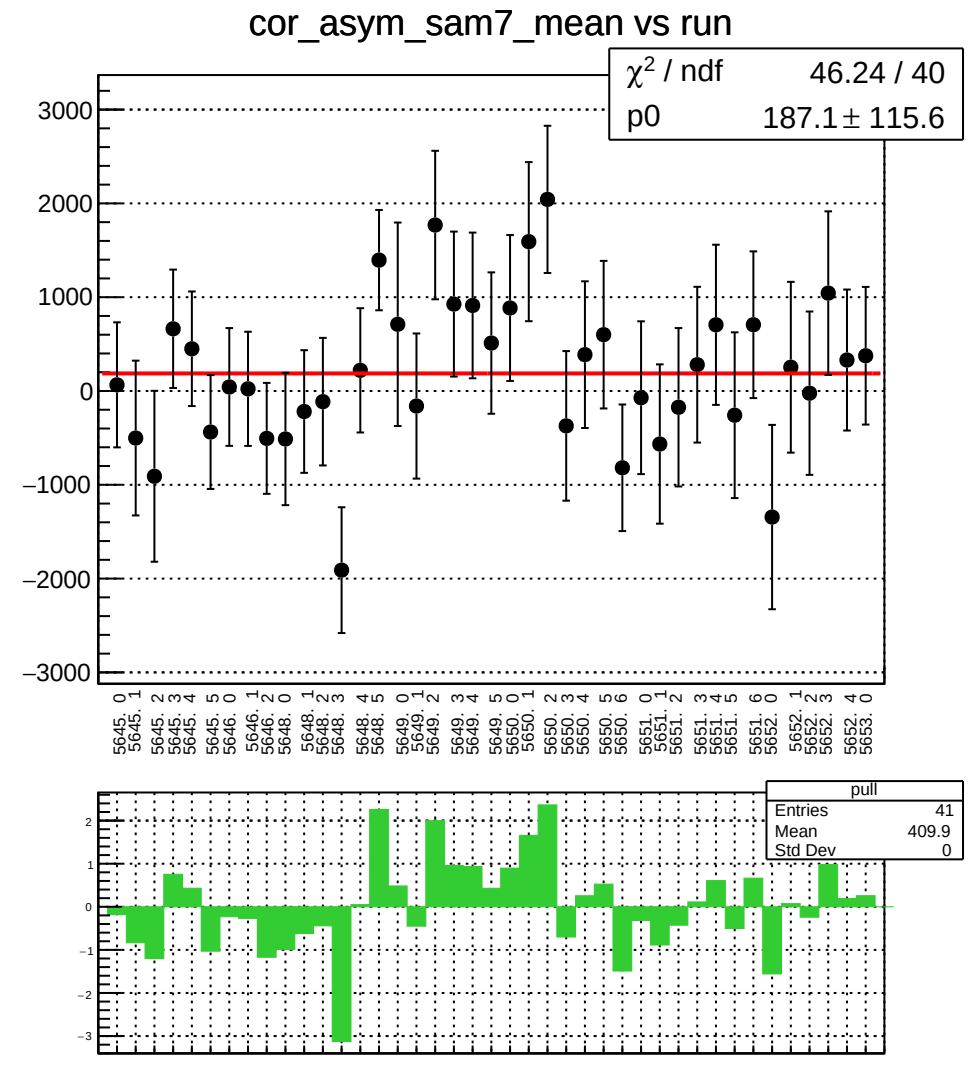

reg_asym_sam7_rms vs run
χ² / ndf 1.522e+04 / 40
p0 71.95 ± 0.08172
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

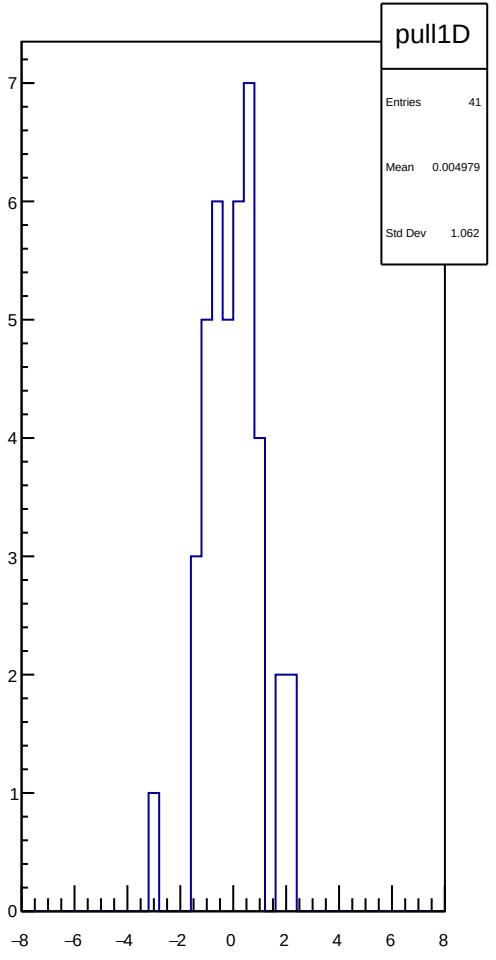

asym_sam7_reg_correction_mean vs run
χ² / ndf 39.75 / 40
p0 752.5 ± 1023
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

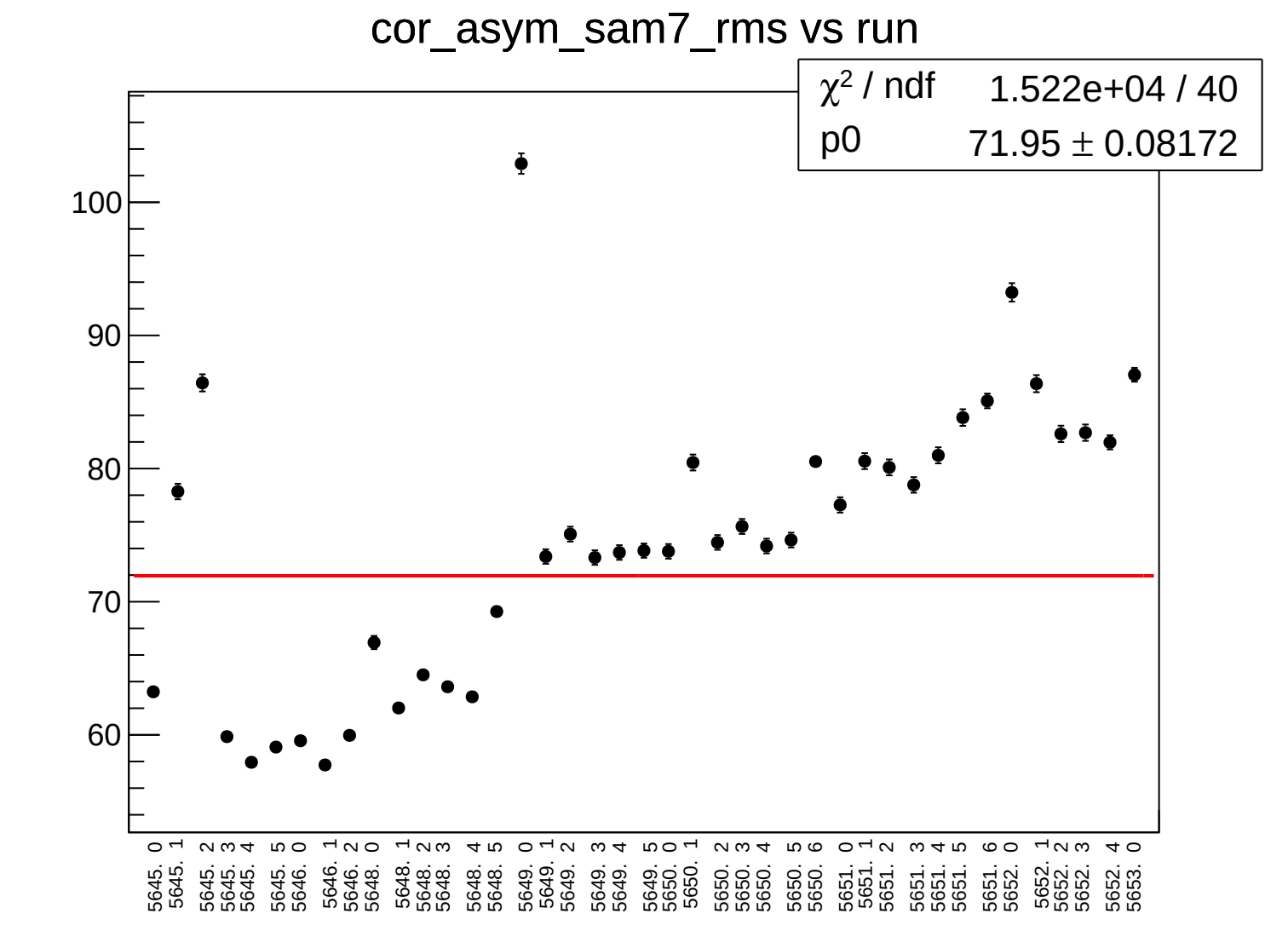

pull
Entries 41
Mean 269.5
Std Dev 0
2
1
0
−1
−2

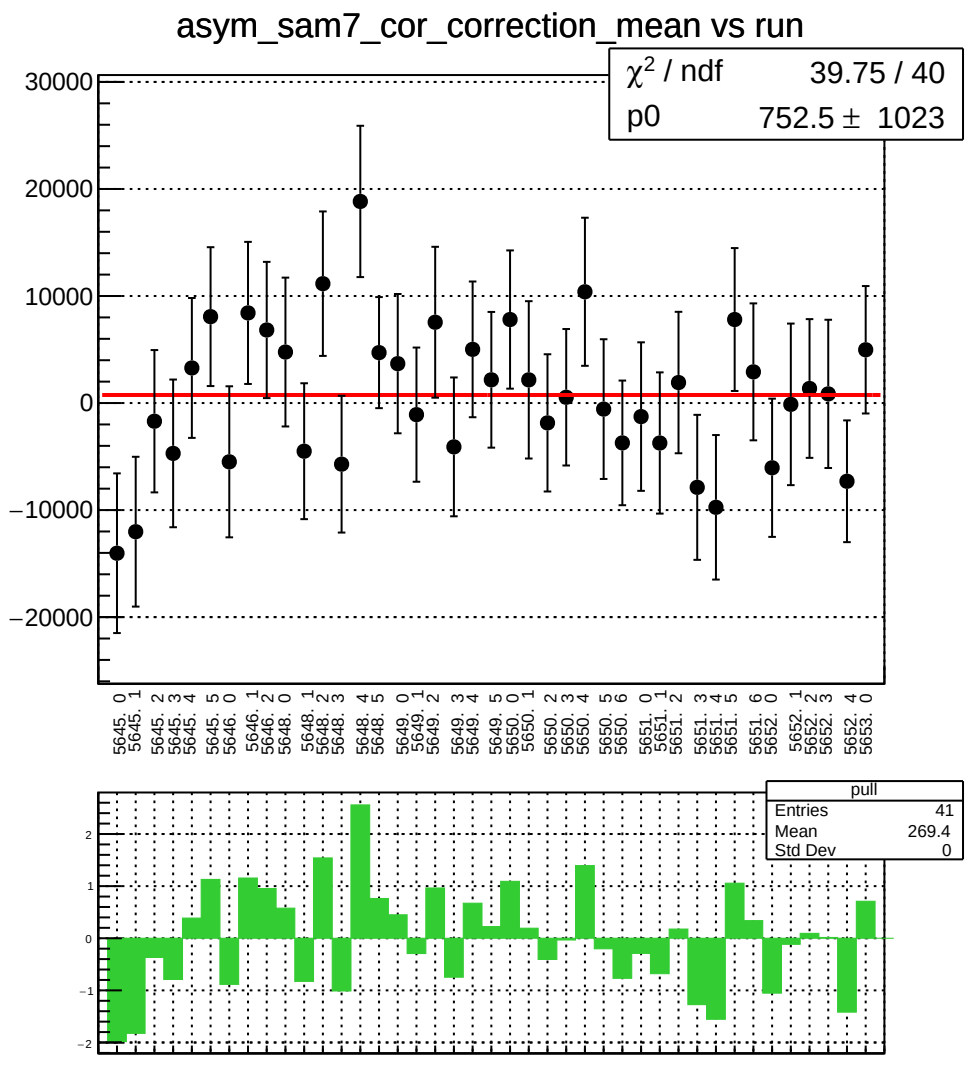

pull1D
Entries 41
Mean −0.002076
Std Dev 0.9847
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

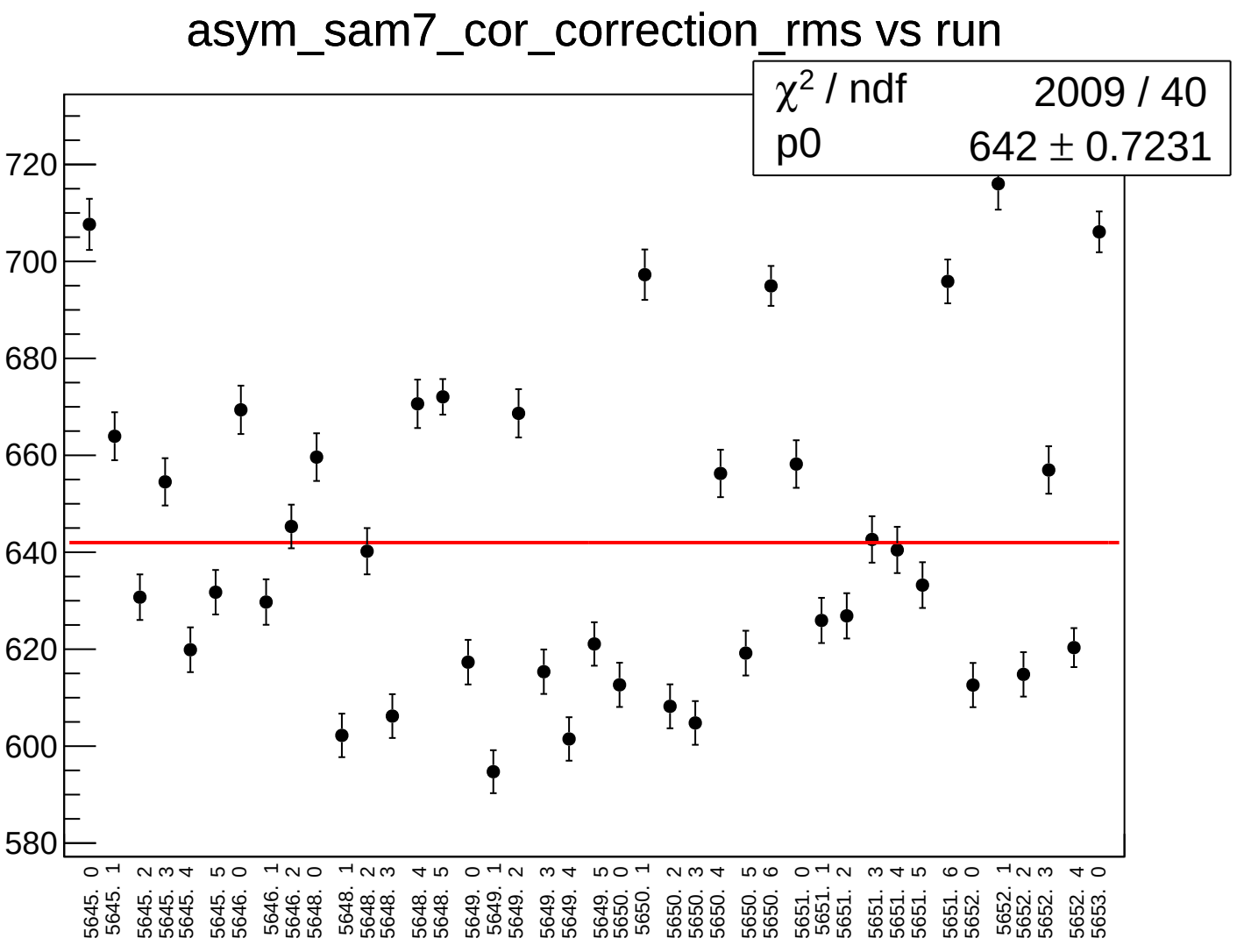

asym_sam7_reg_correction_rms vs run
χ² / ndf 2009 / 40
p0 642 ± 0.7231
720
700
680
660
640
620
600
580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

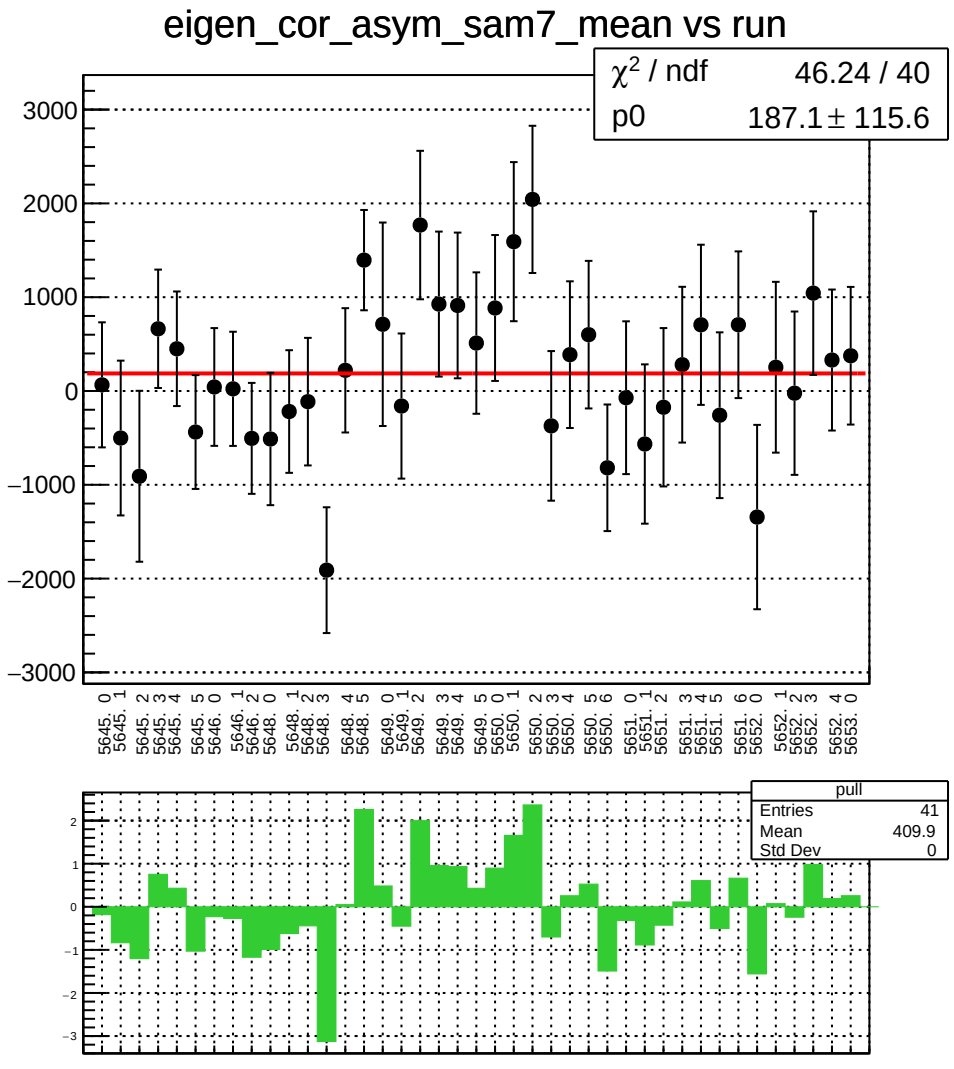

cor_asym_sam7_mean vs run
χ² / ndf 46.24 / 40
p0 187.1 ± 115.6
pull
Entries 41
Mean 409.9
Std Dev 0

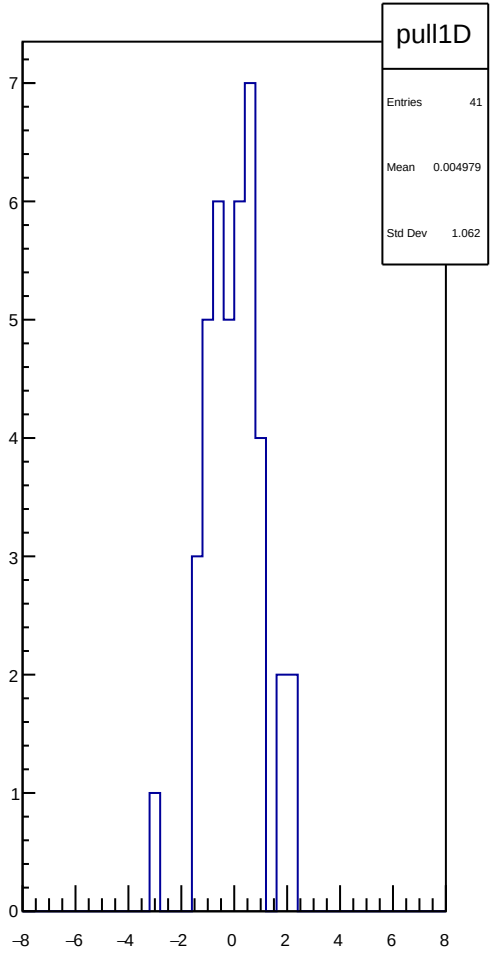

pull1D
Entries 41
Mean 0.004979
Std Dev 1.062

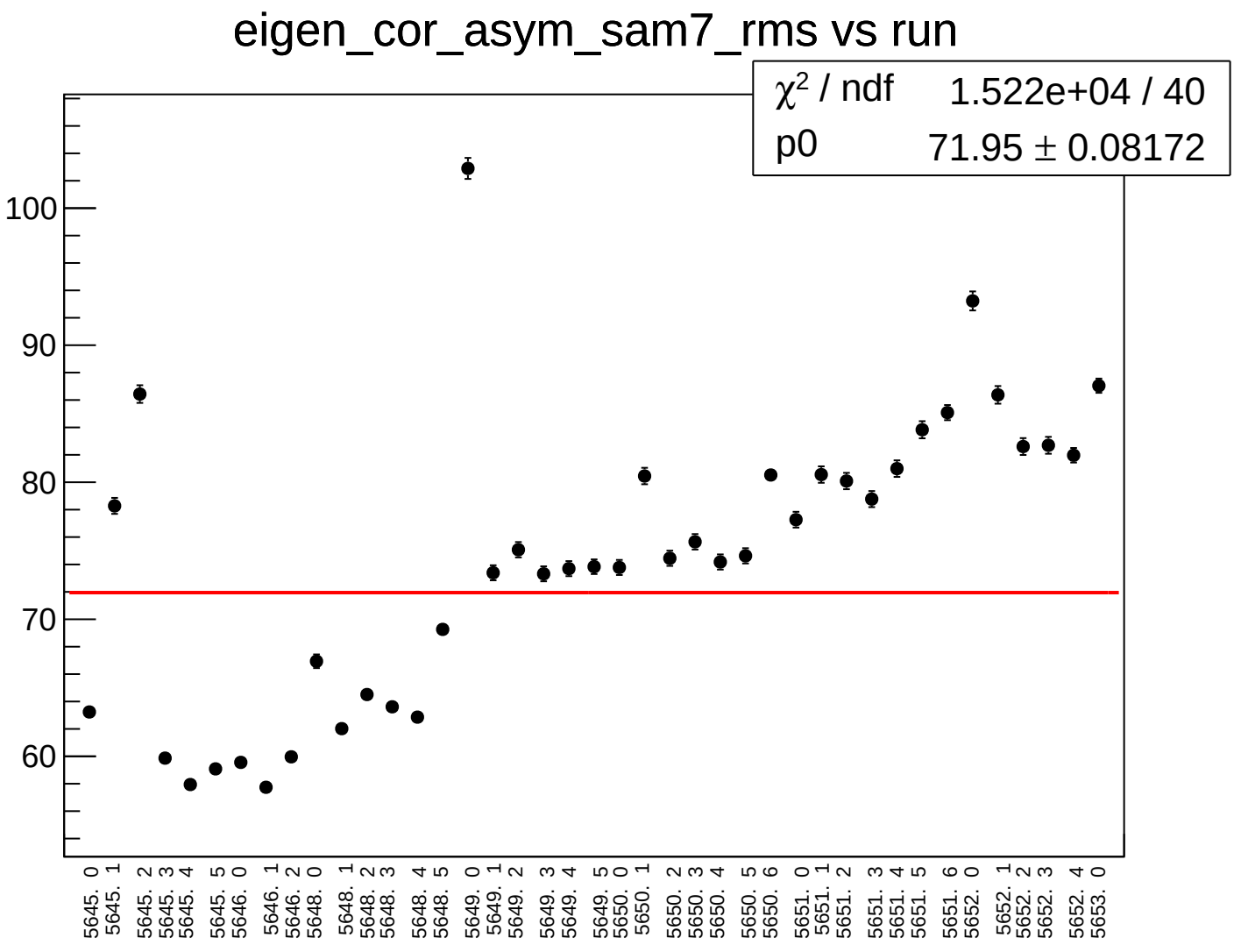

cor_asym_sam7_rms vs run
χ² / ndf 1.522e+04 / 40
p0 71.95 ± 0.08172
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

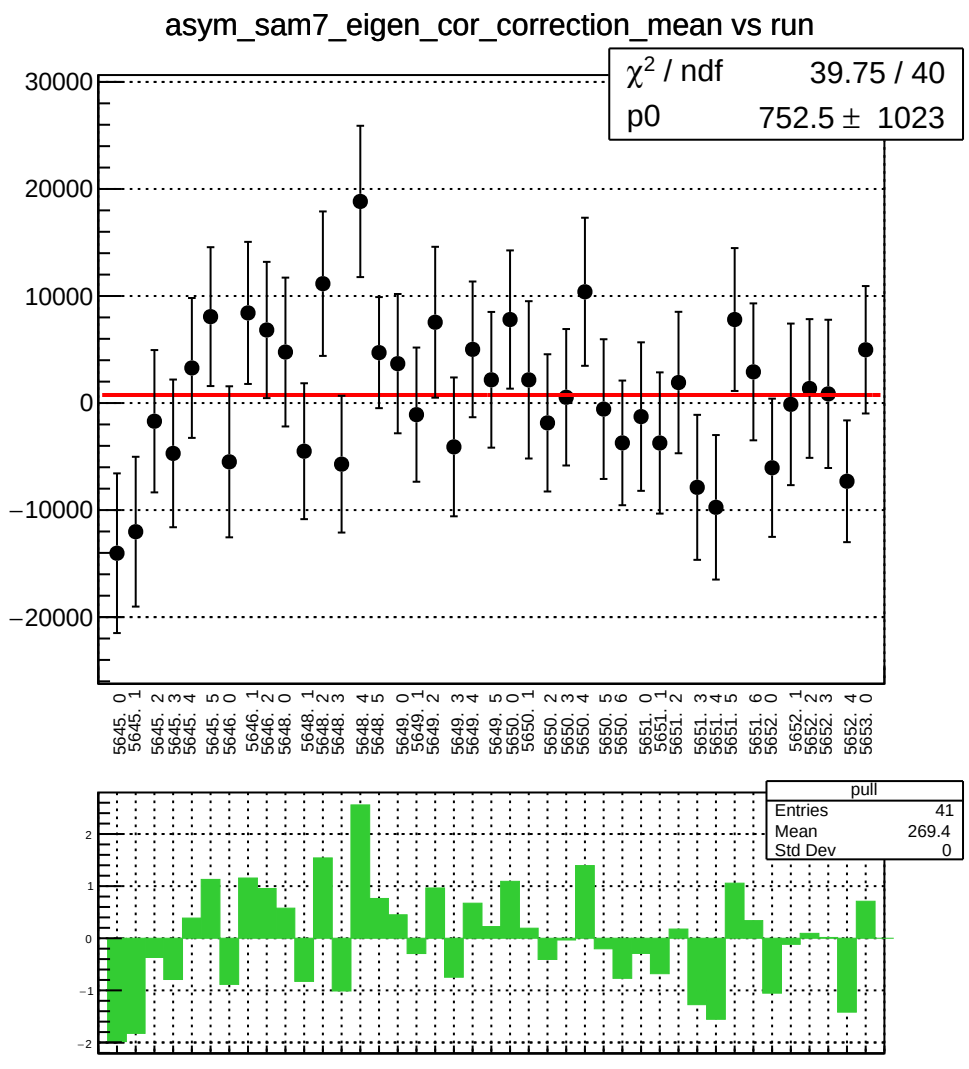

asym_sam7_cor_correction_mean vs run
χ² / ndf 39.75 / 40
p0 752.5 ± 1023
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 269.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002077
Std Dev 0.9847
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_cor_correction_rms vs run
χ² / ndf 2009 / 40
p0 642 ± 0.7231
720
700
680
660
640
620
600
580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_sam7_mean vs run
χ² / ndf 46.24 / 40
p0 187.1 ± 115.6
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 409.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 41
Mean 0.004979
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1.522e+04 / 40
p0 71.95 ± 0.08172
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 39.75 / 40
p0 752.5 ± 1023
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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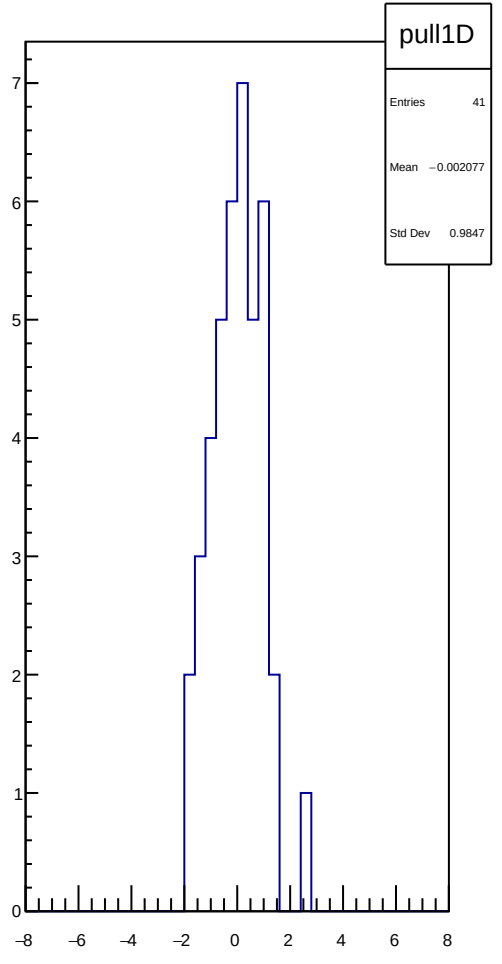
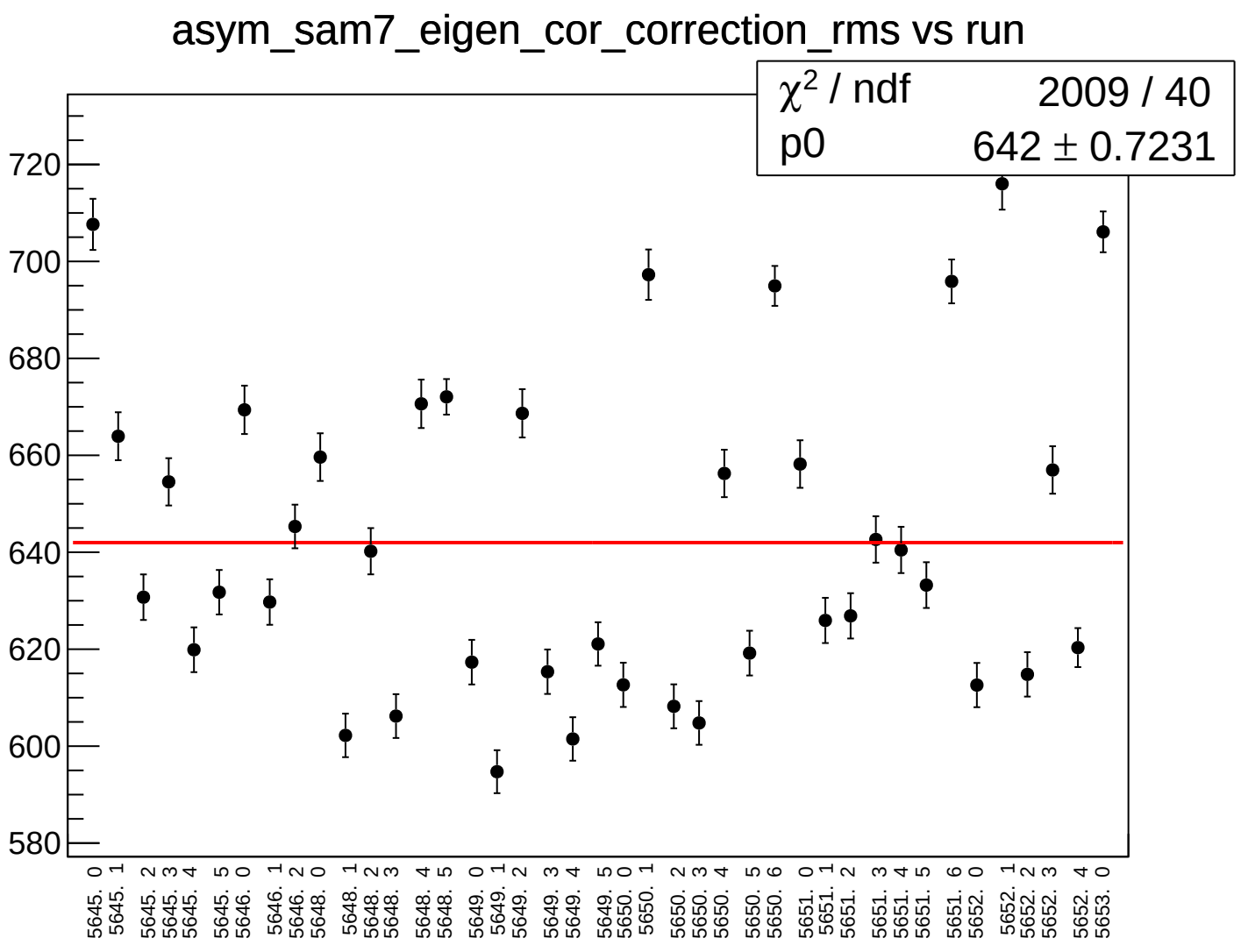
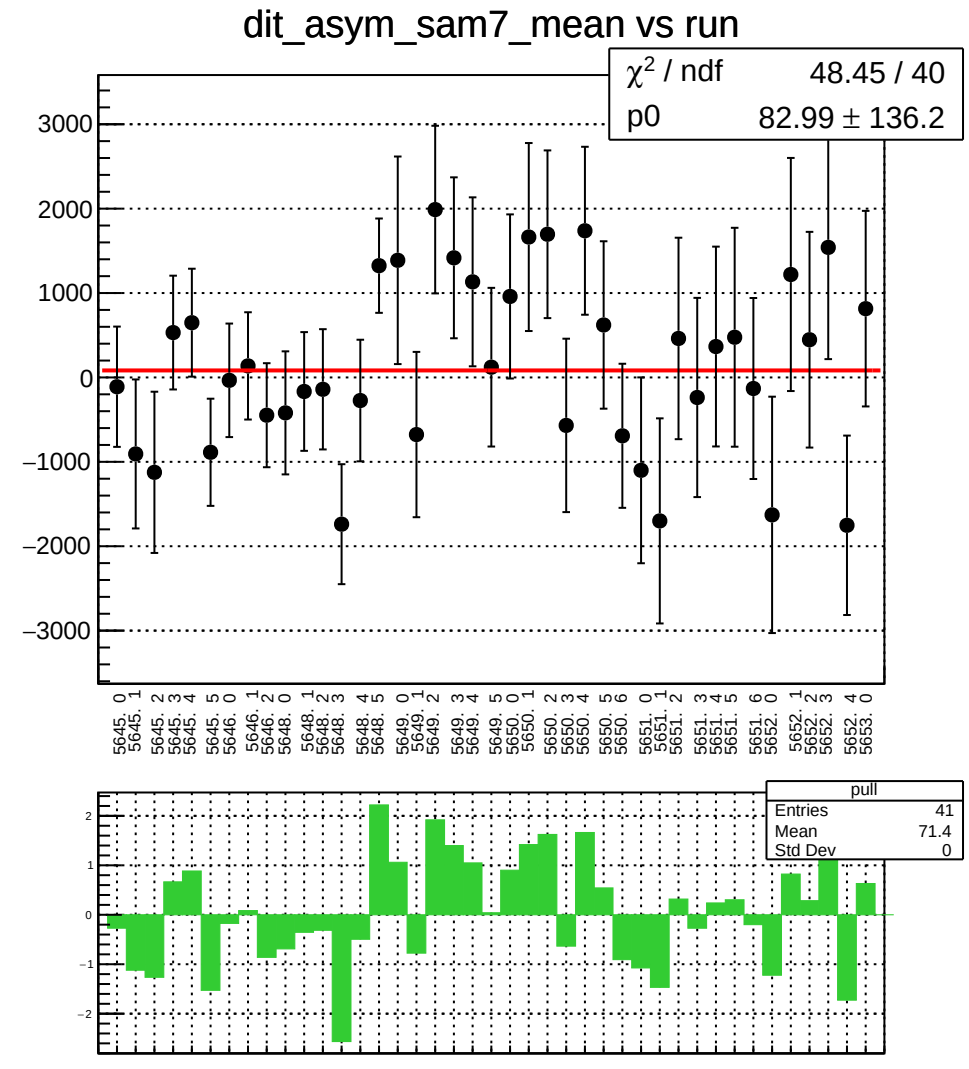
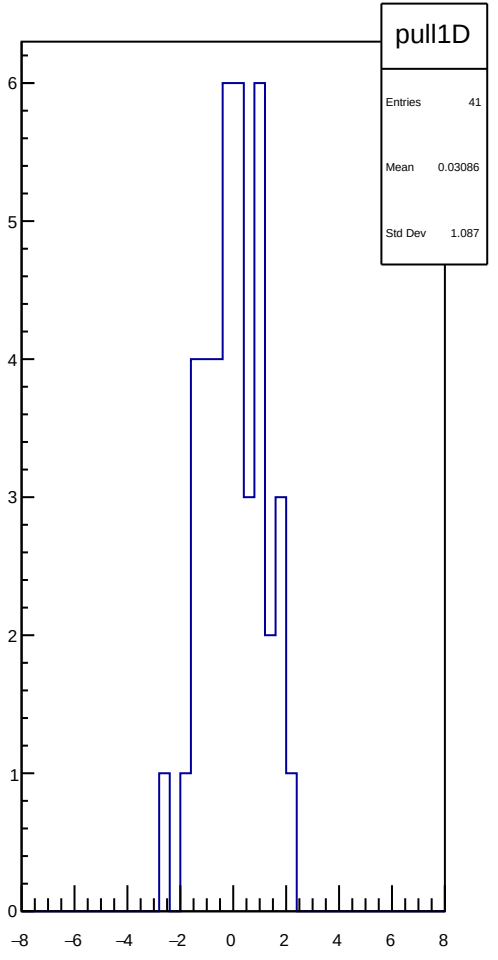
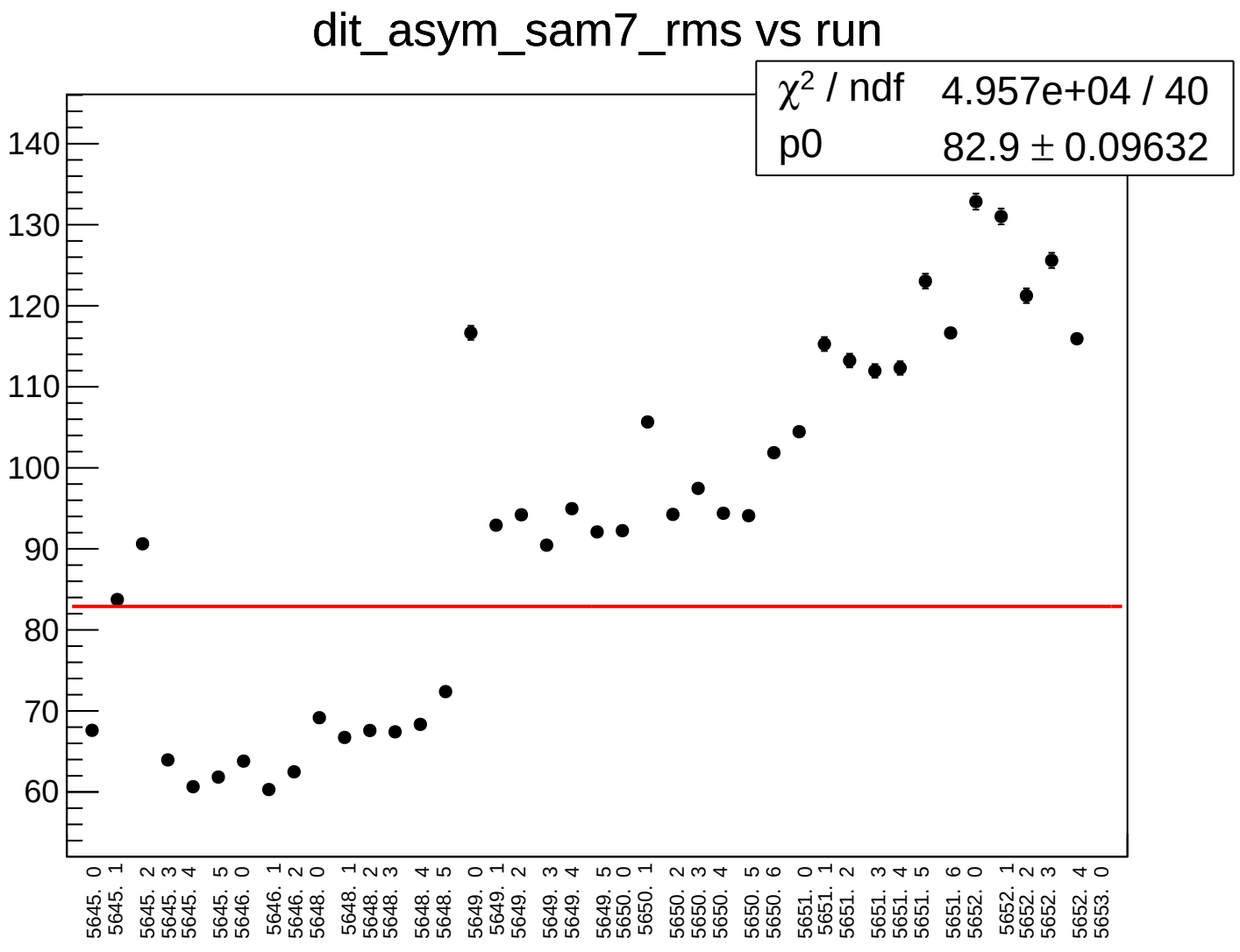
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 269.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.002077
Std Dev 0.9847
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2009 / 40
p0 642 ± 0.7231
720
700
680
660
640
620
600
580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_sam7_mean vs run
χ² / ndf 48.45 / 40
p0 82.99 ± 136.2
pull
Entries 41
Mean 71.4
Std Dev 0


pull1D
Entries 41
Mean 0.03086
Std Dev 1.087


dit_asym_sam7_rms vs run
χ² / ndf 4.957e+04 / 40
p0 82.9 ± 0.09632
140
130
120
110
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
5652. 0
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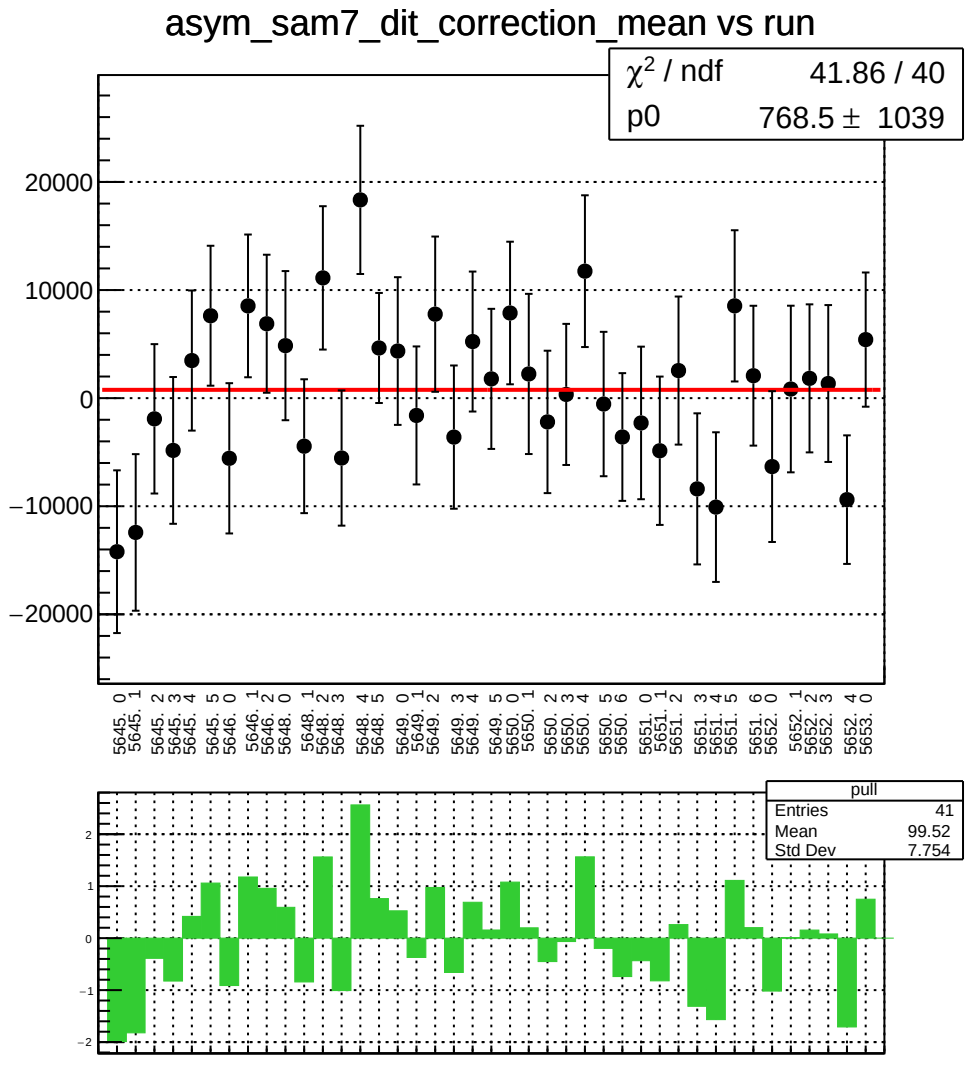
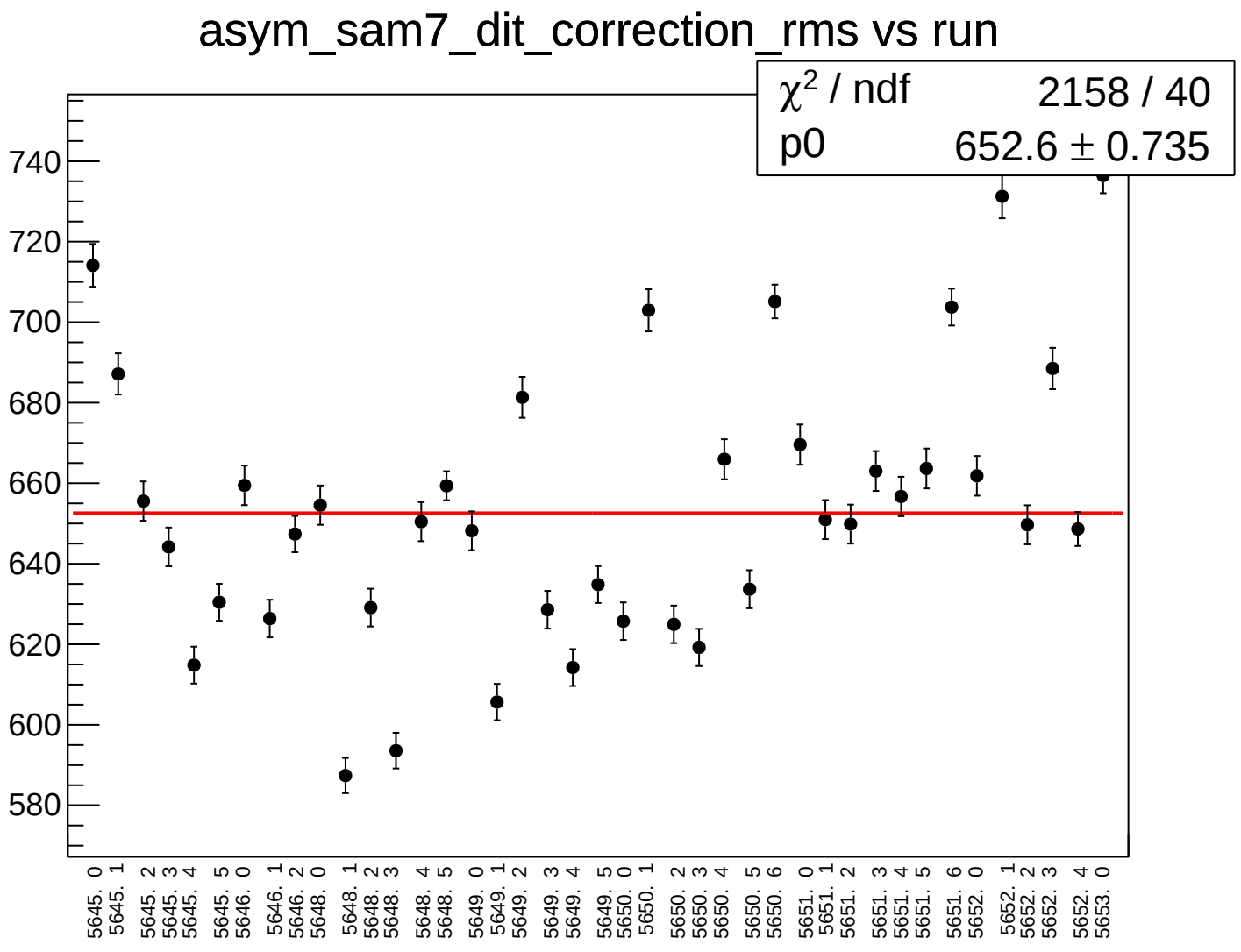
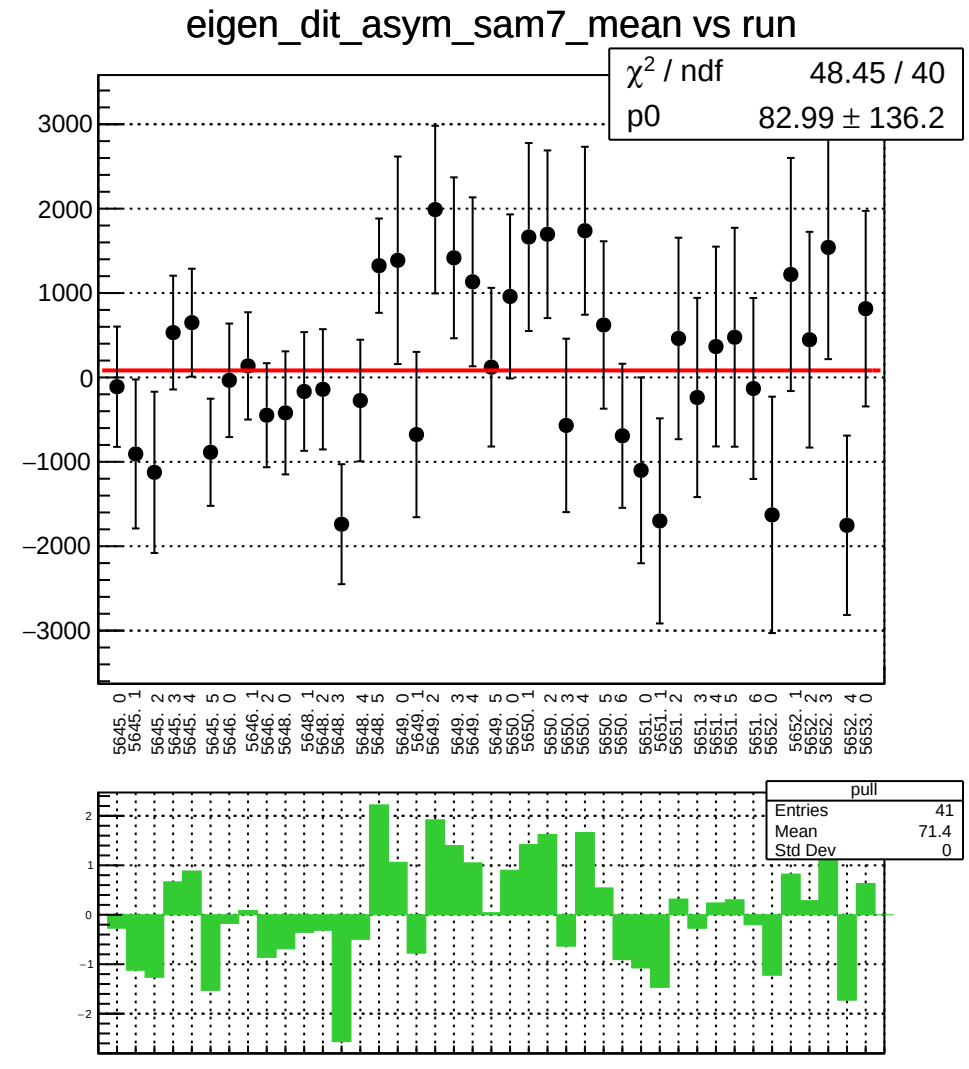
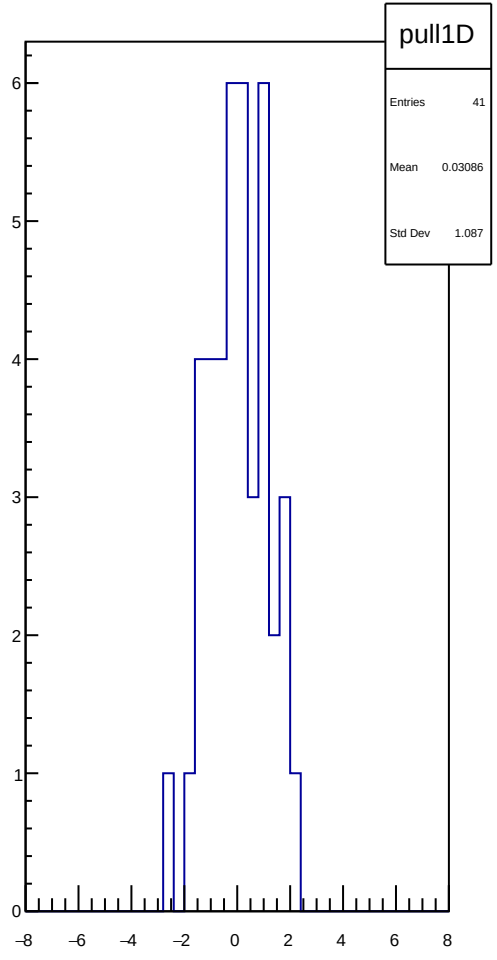
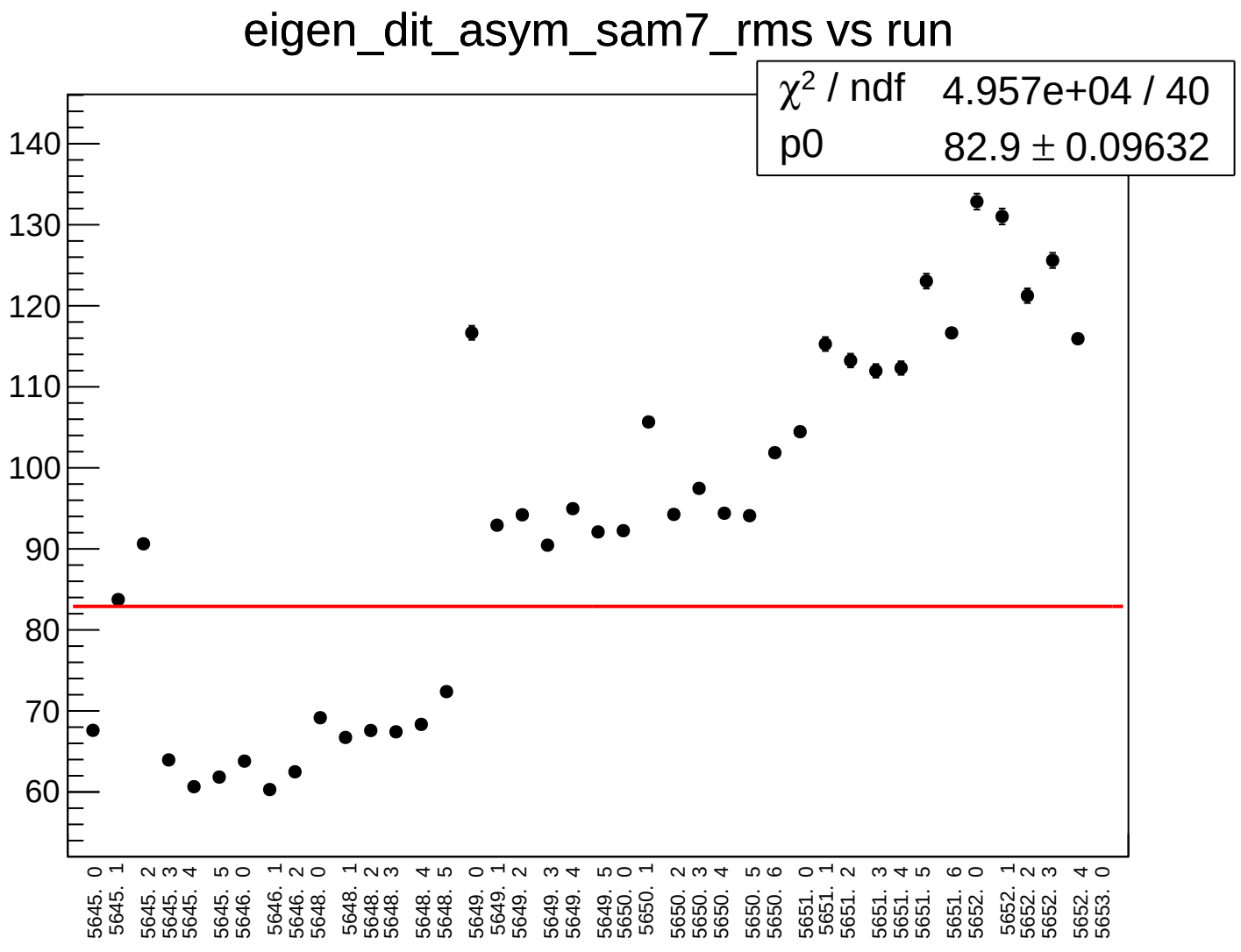
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam7_dit_correction_mean vs run
χ² / ndf 41.86 / 40
p0 768.5 ± 1039
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 99.52
Std Dev 7.754
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.006977
Std Dev 1.01
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 2158 / 40
p0 652.6 ± 0.735
740
720
700
680
660
640
620
600
580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_sam7_mean vs run
χ^2 / ndf 48.45 / 40
p0 82.99 ± 136.2
pull
Entries 41
Mean 71.4
Std Dev 0


pull1D
Entries 41
Mean 0.03086
Std Dev 1.087


eigen_dit_asym_sam7_rms vs run
χ² / ndf 4.957e+04 / 40
p0 82.9 ± 0.09632
140
130
120
110
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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5649. 5
5650. 0
5650. 1
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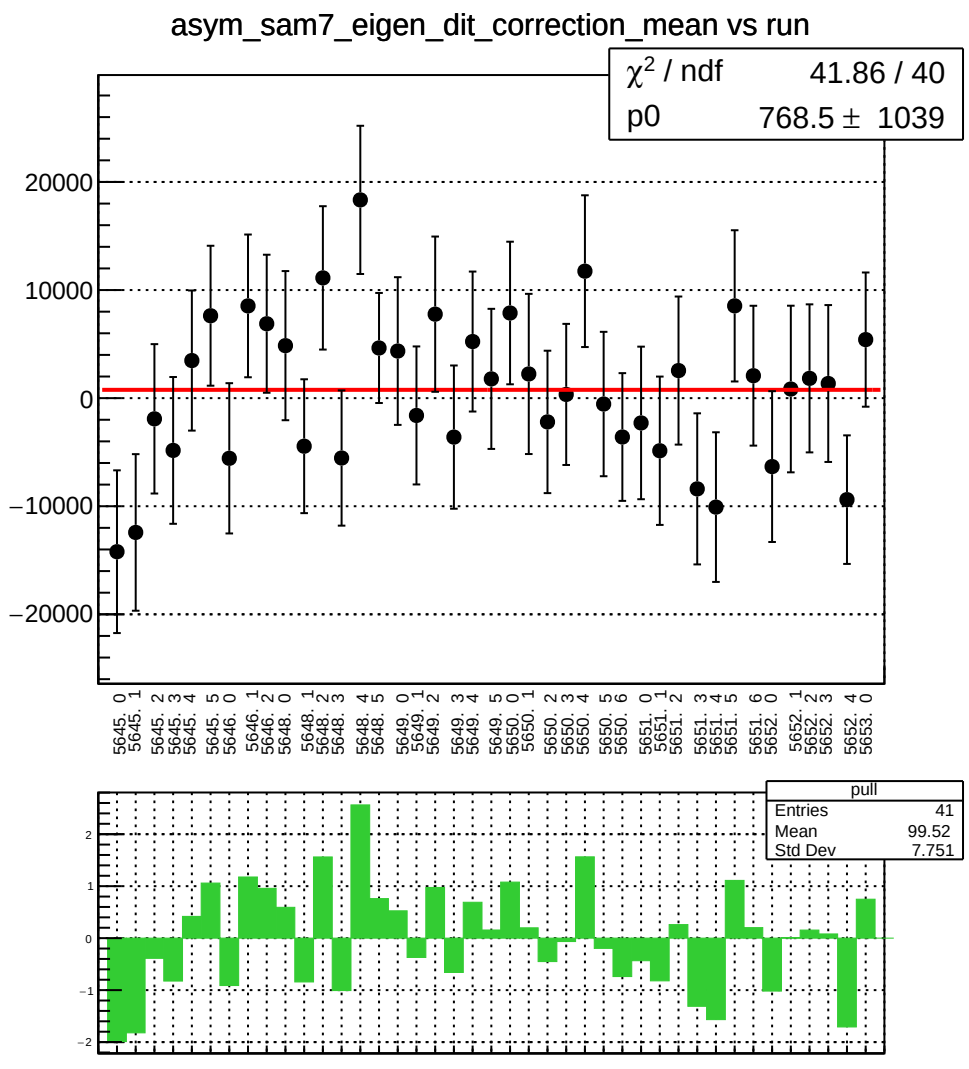
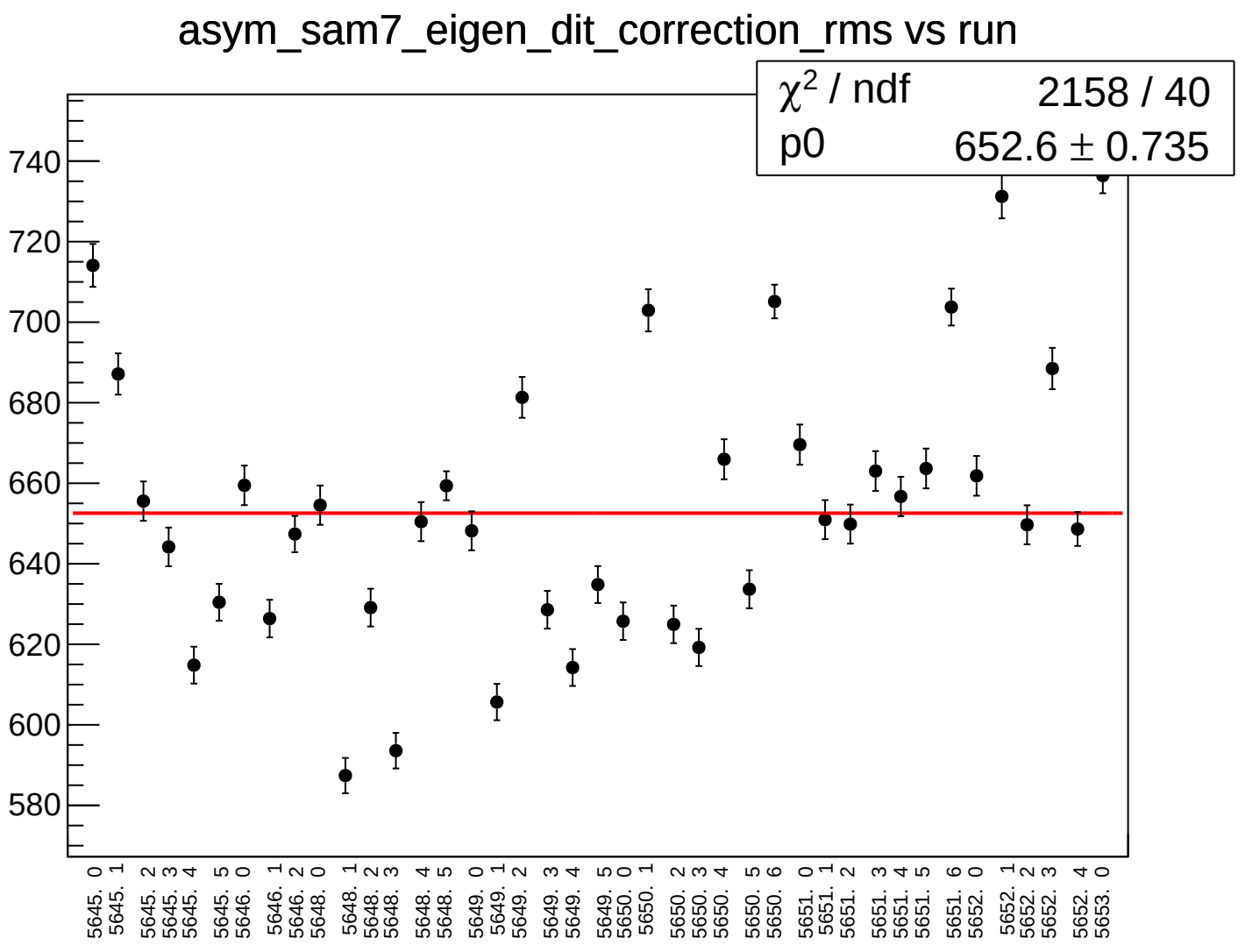
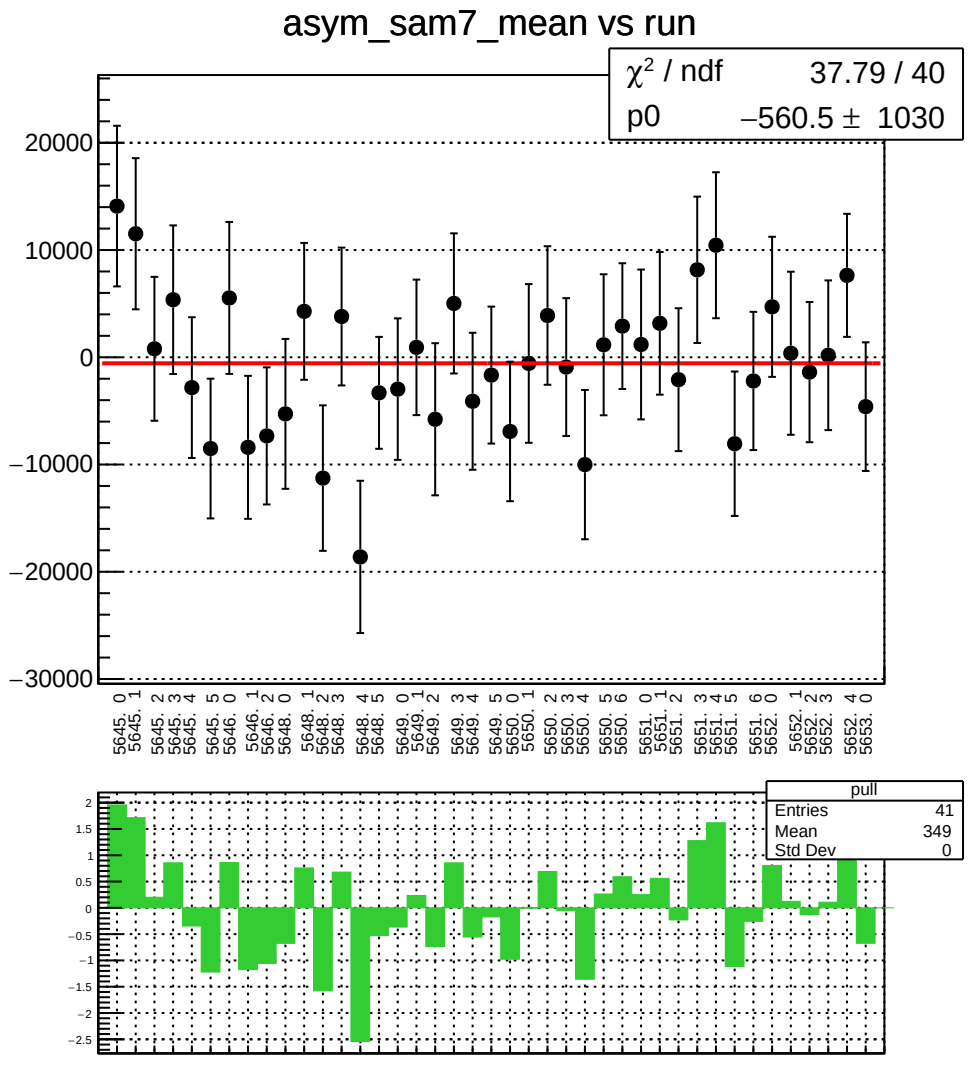
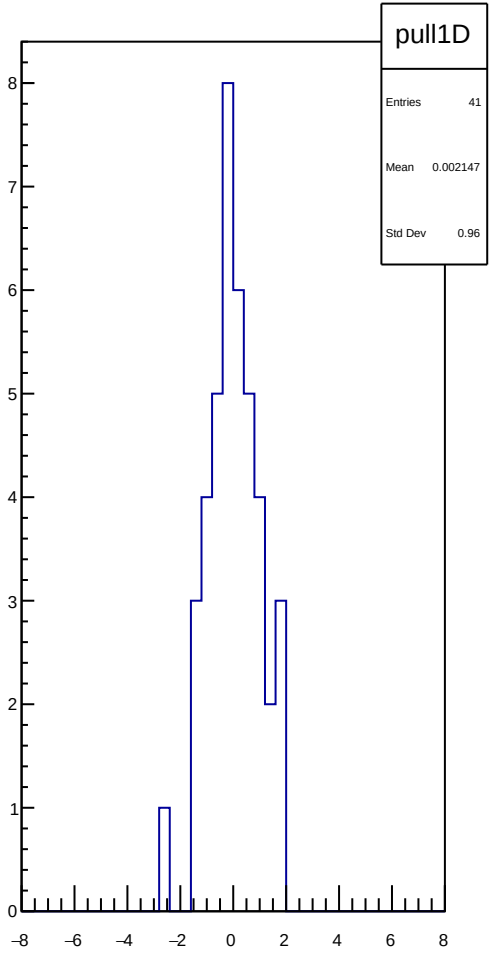
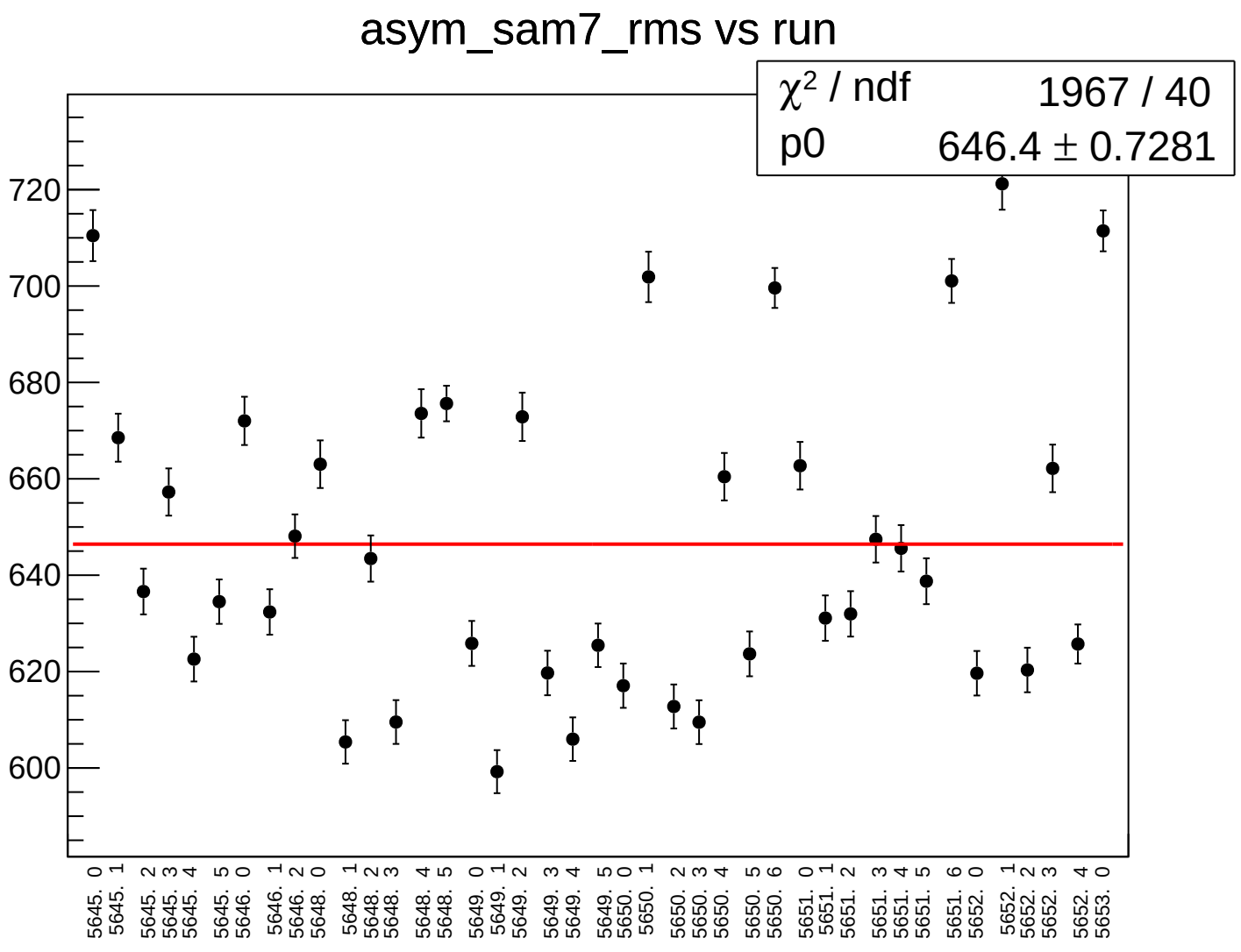
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

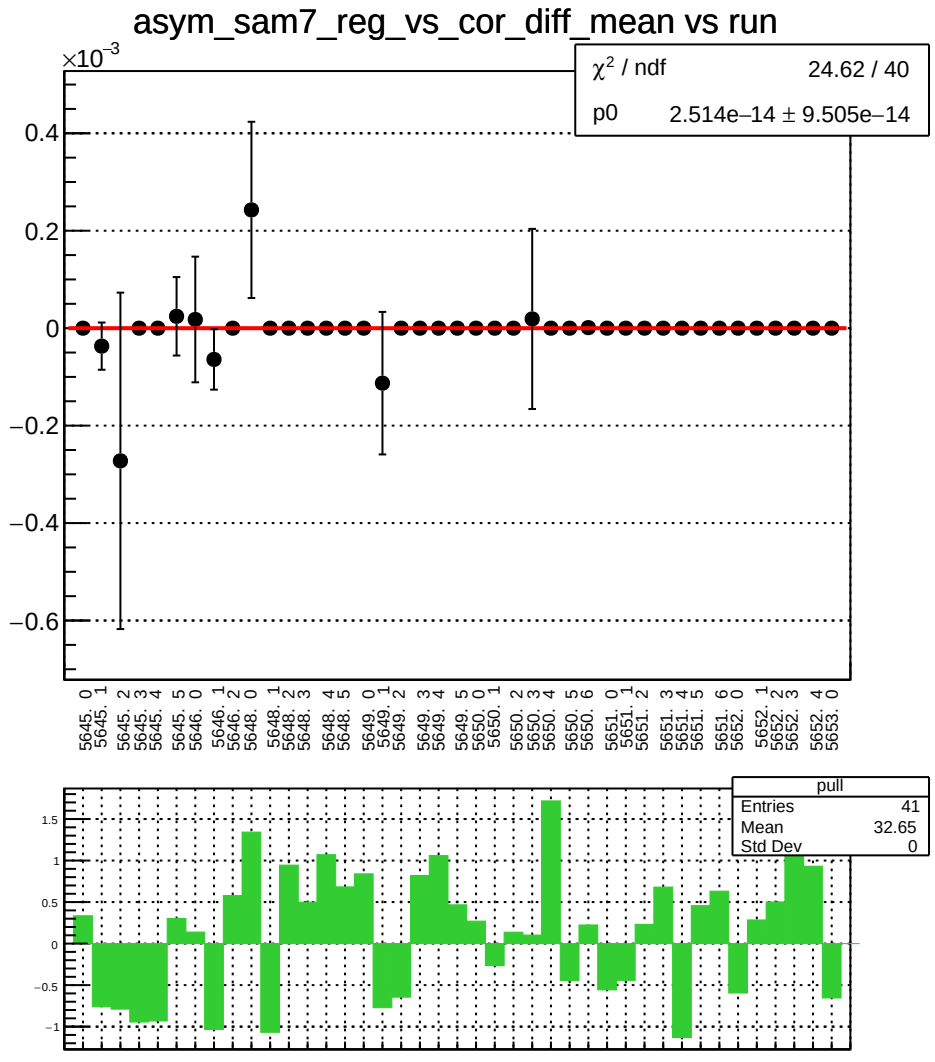

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 41.86 / 40
p0 768.5 ± 1039
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 99.52
Std Dev 7.751
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.006977
Std Dev 1.01
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

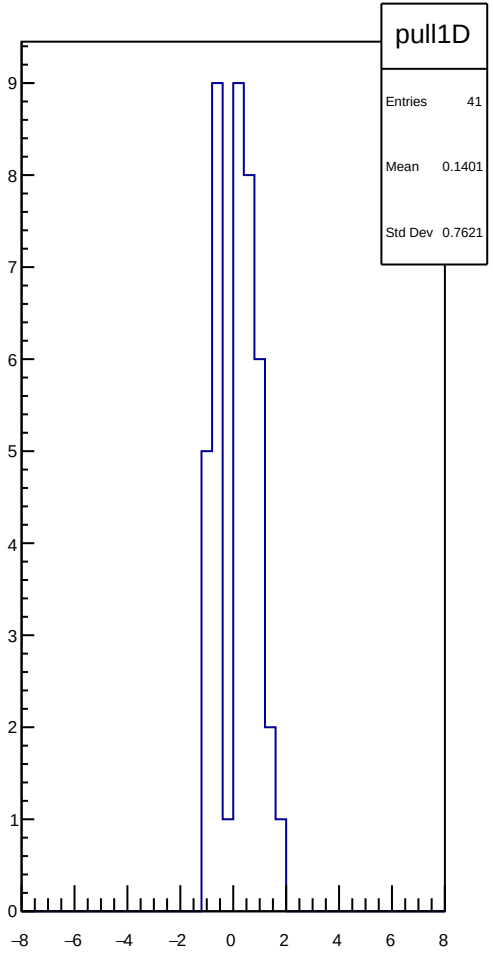

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2158 / 40
p0 652.6 ± 0.735
740
720
700
680
660
640
620
600
580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

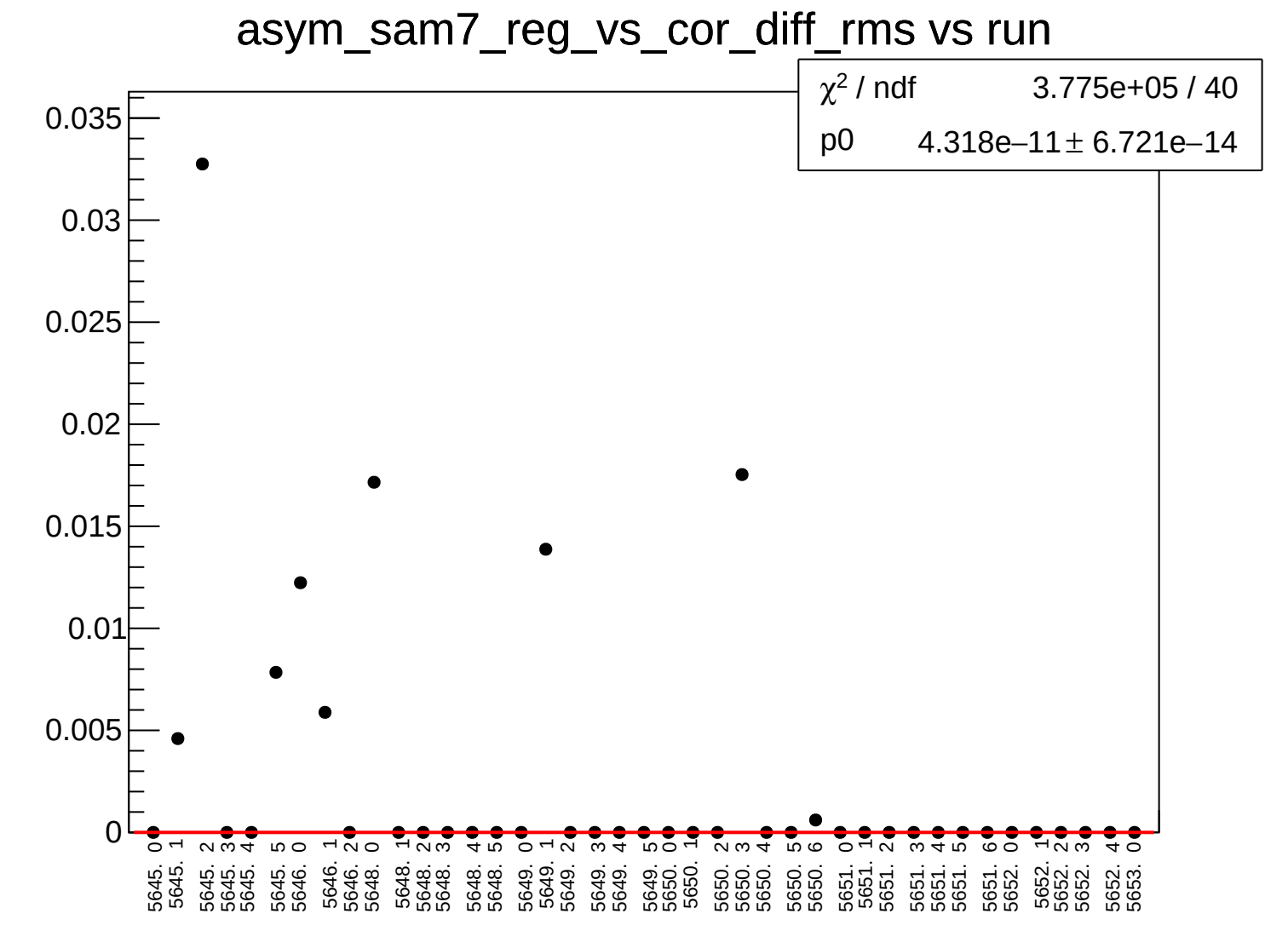

asym_sam7_mean vs run
χ² / ndf 37.79 / 40
p0 −560.5 ± 1030
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 349
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

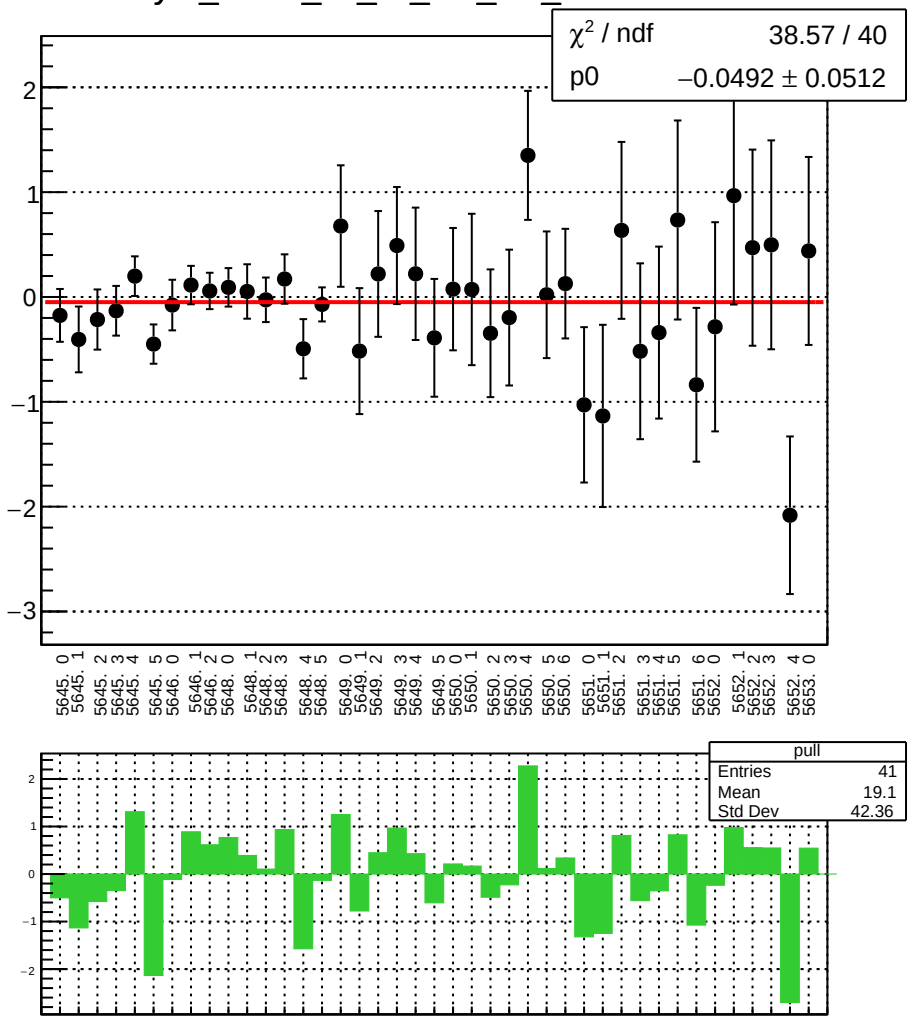

pull1D
Entries 41
Mean 0.002147
Std Dev 0.96
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

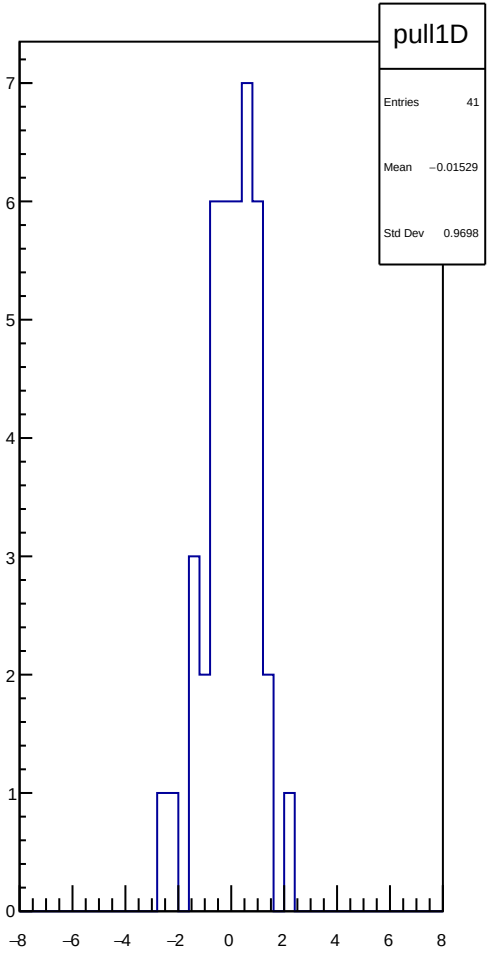

asym_sam7_rms vs run
χ² / ndf 1967 / 40
p0 646.4 ± 0.7281
720
700
680
660
640
620
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

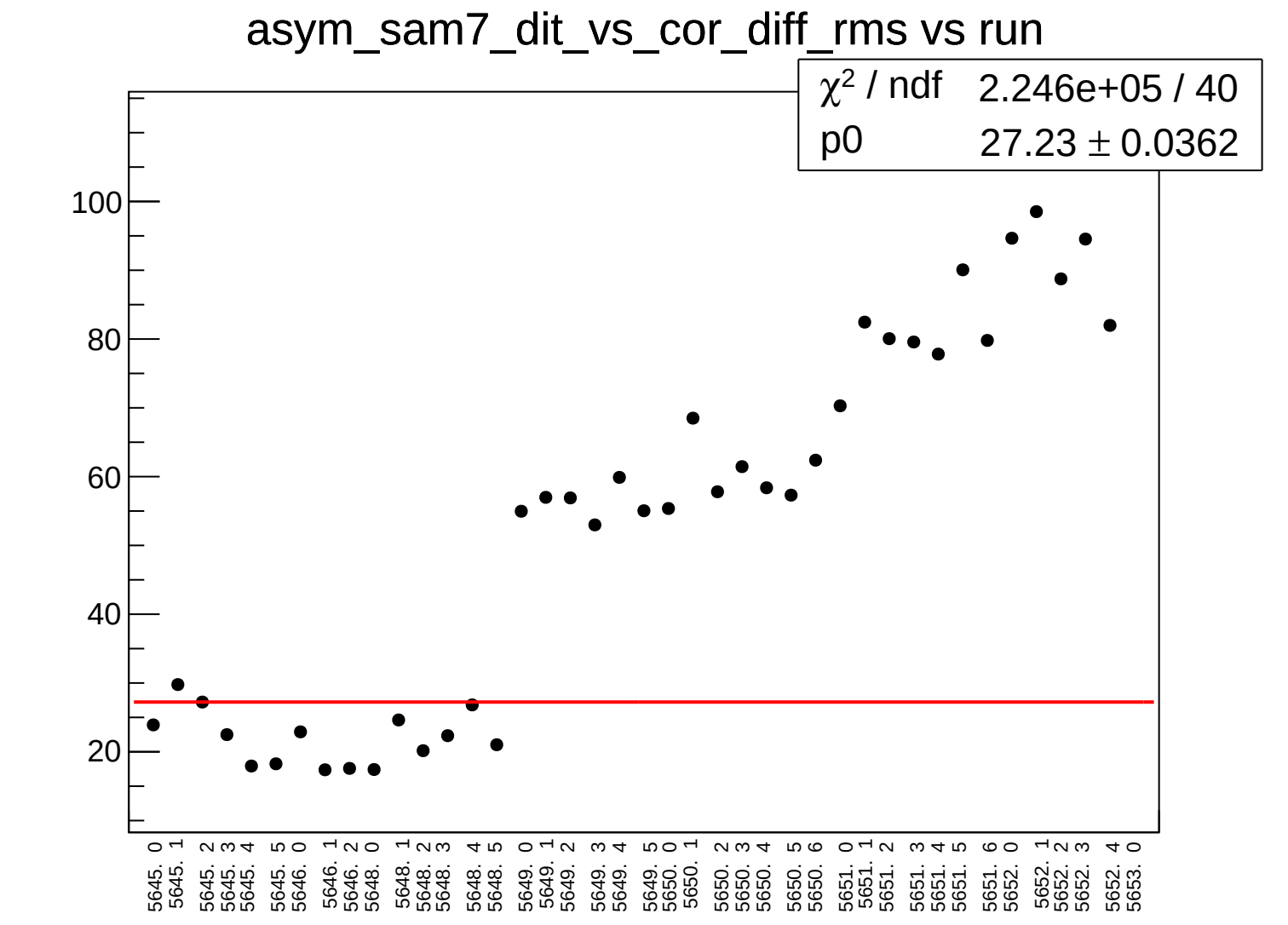

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 24.62 / 40
p0 2.514e−14 ± 9.505e−14
0.4
0.2
0
−0.2
−0.4
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1

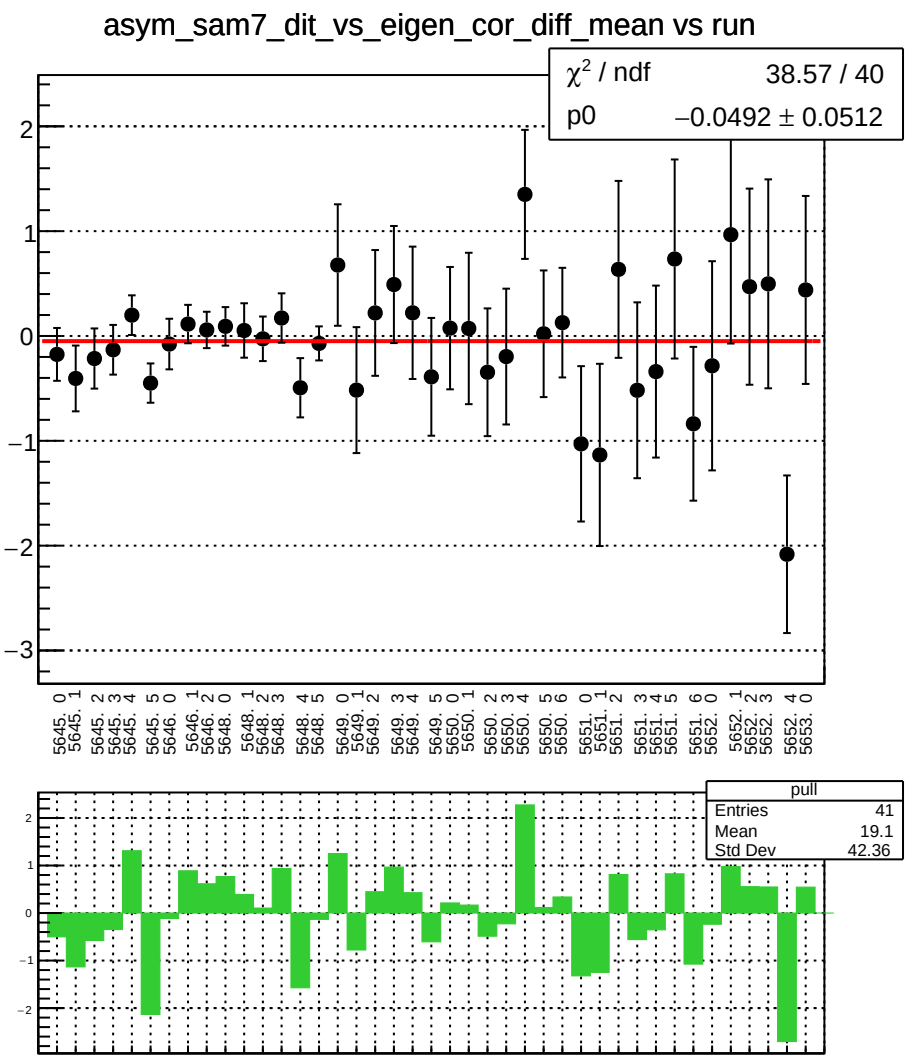

pull1D
Entries 41
Mean 0.1401
Std Dev 0.7621
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

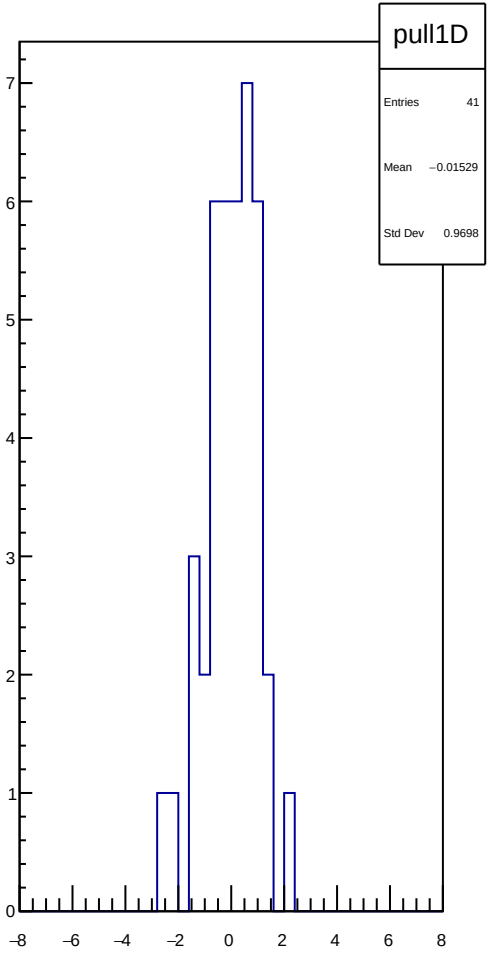

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 3.775e+05 / 40
p0 4.318e−11 ± 6.721e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

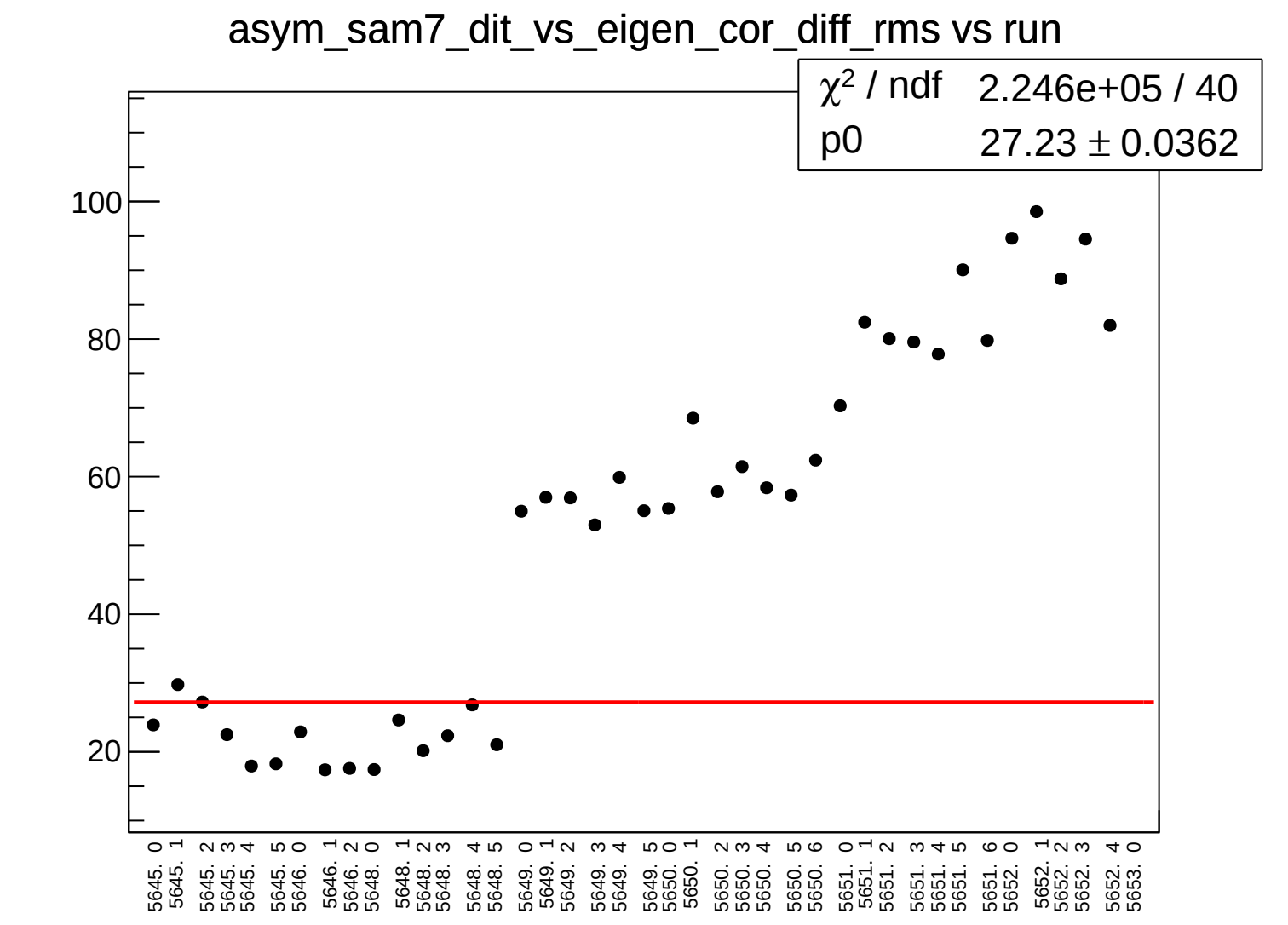

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 38.57 / 40
p0 −0.0492 ± 0.0512
pull
Entries 41
Mean 19.1
Std Dev 42.36

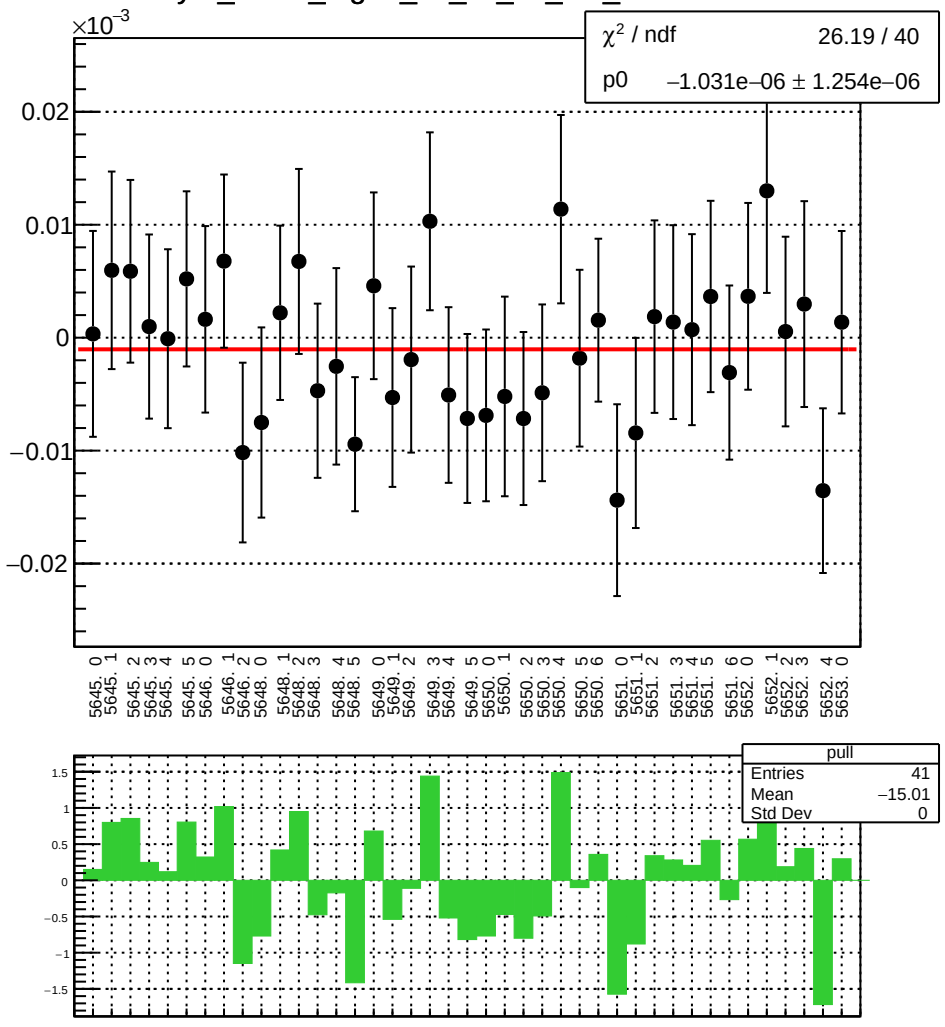

pull1D
Entries 41
Mean −0.01529
Std Dev 0.9698

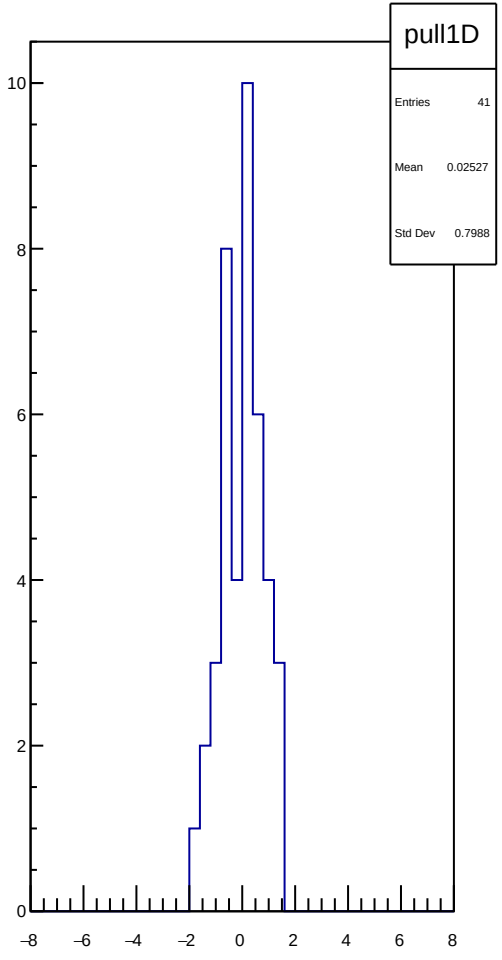

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 2.246e+05 / 40
p0 27.23 ± 0.0362
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

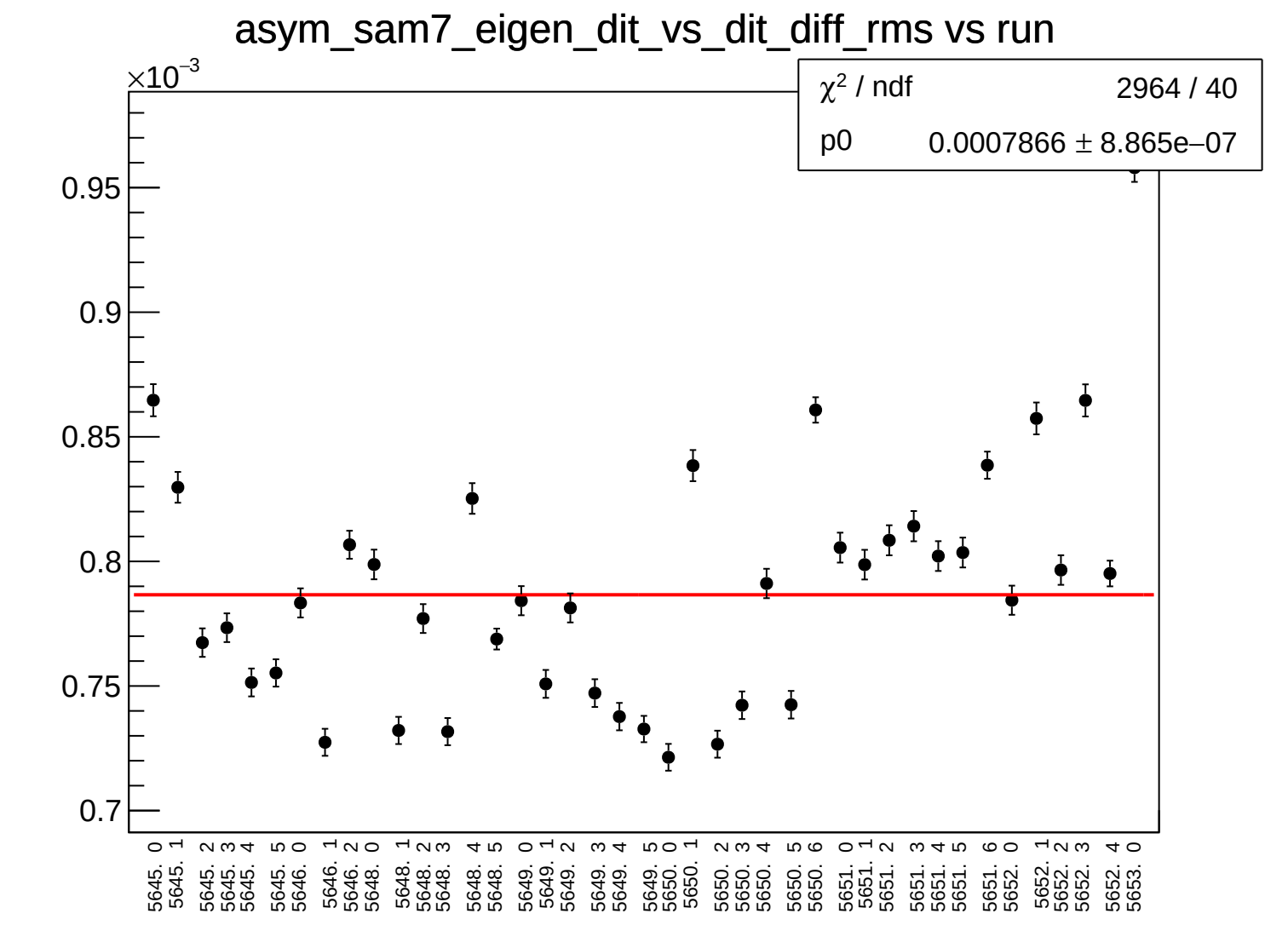

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.57 / 40
p0 −0.0492 ± 0.0512
pull
Entries 41
Mean 19.1
Std Dev 42.36

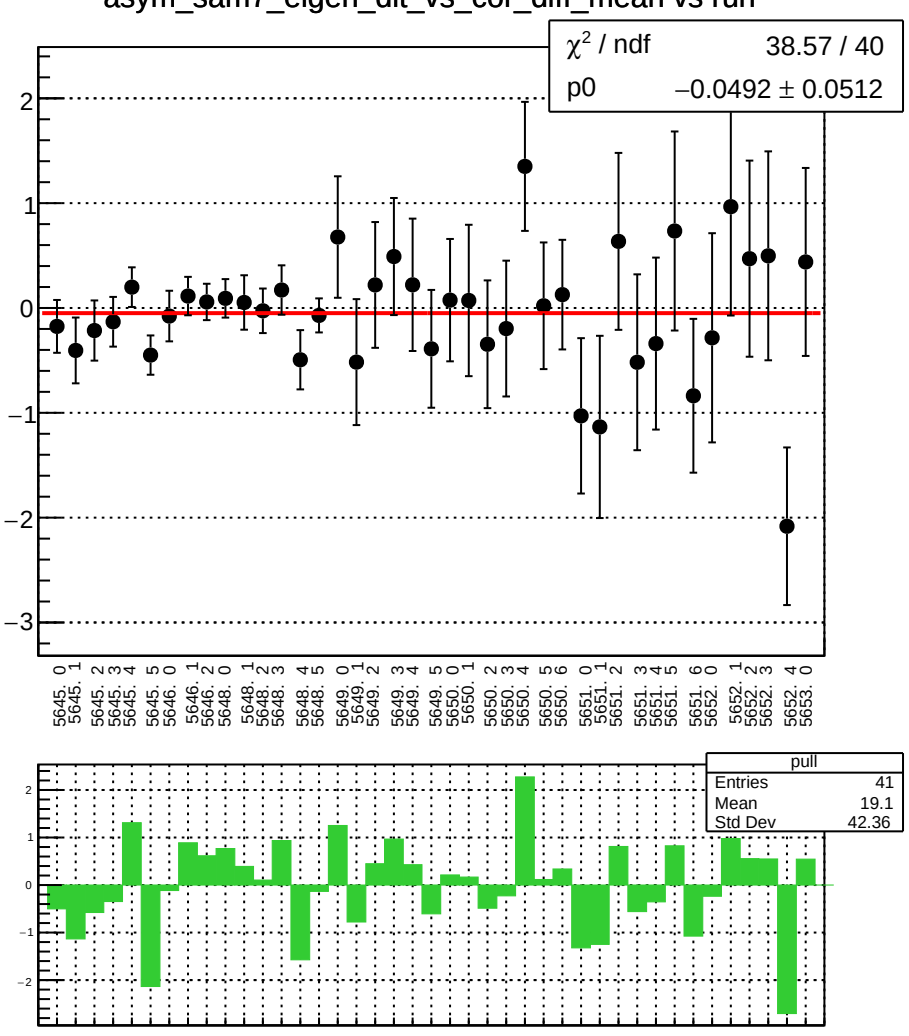

pull1D
Entries 41
Mean −0.01529
Std Dev 0.9698

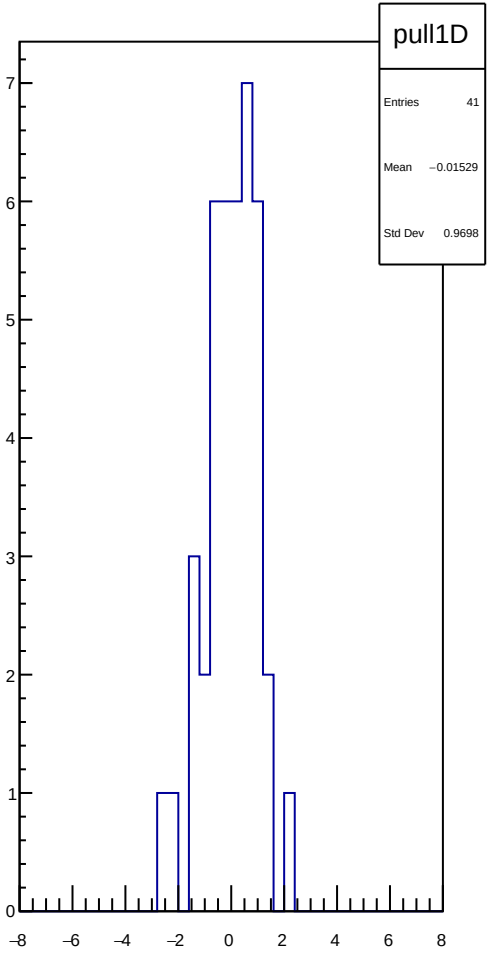

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.246e+05 / 40
p0 27.23 ± 0.0362
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

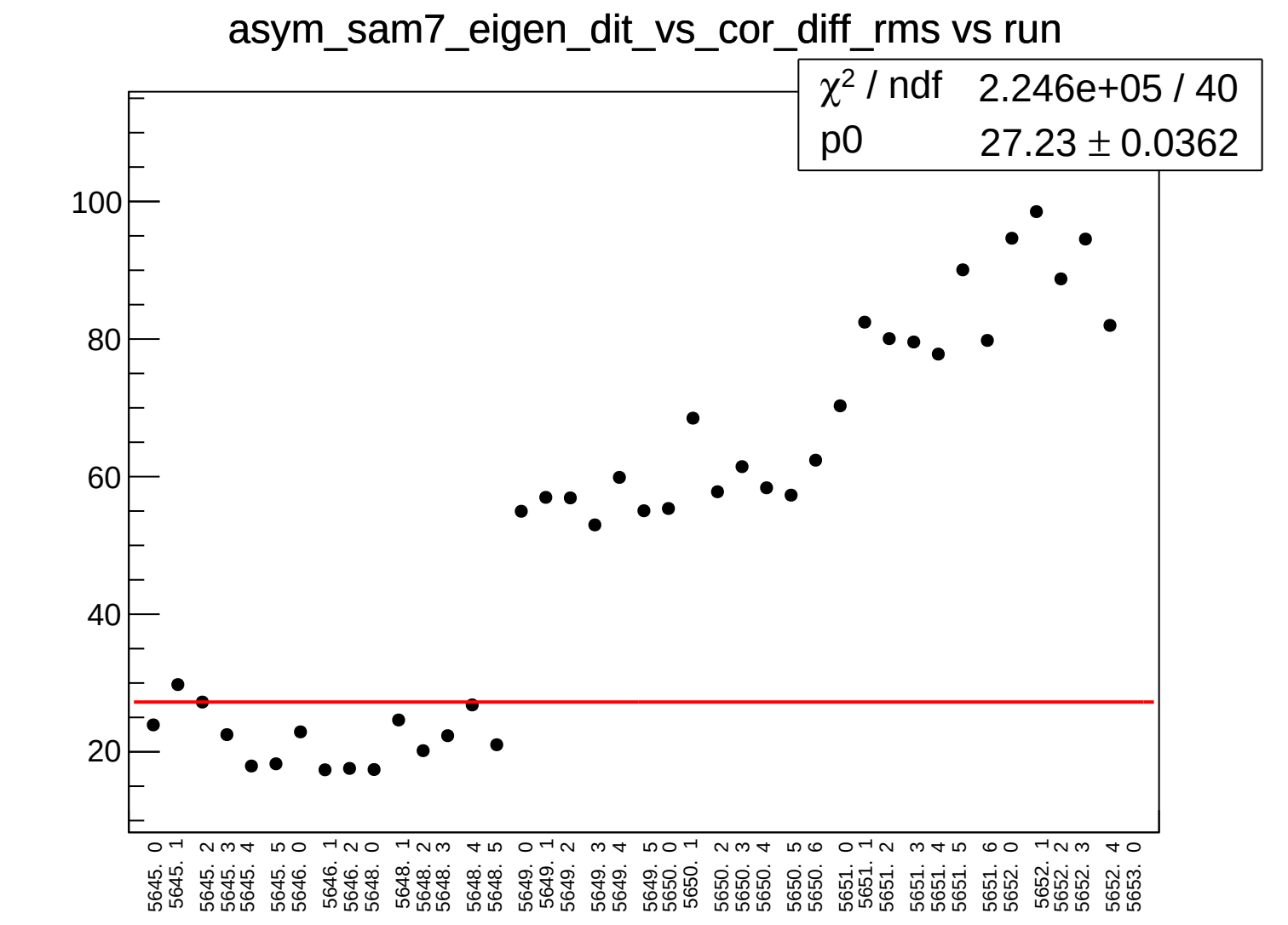

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 26.19 / 40
p0 −1.031e−06 ± 1.254e−06
0.02
0.01
0
−0.01
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −15.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

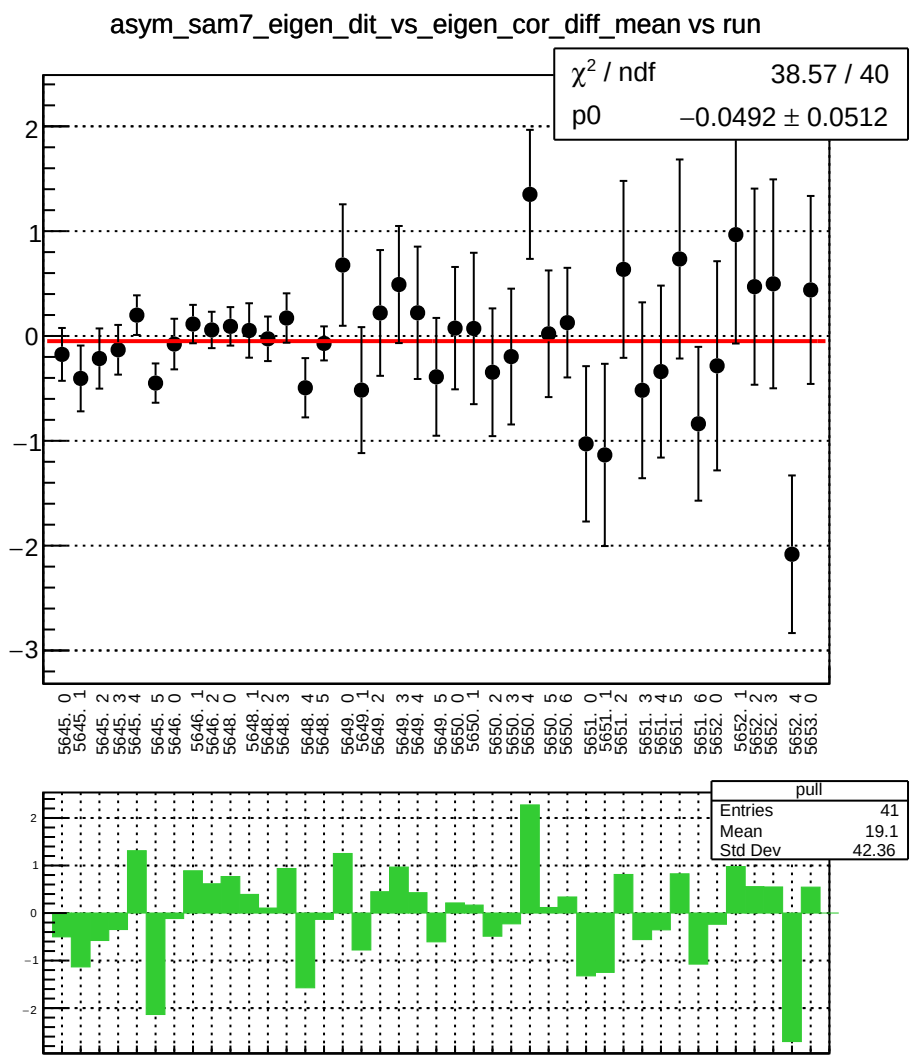

pull1D
Entries 41
Mean 0.02527
Std Dev 0.7988
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

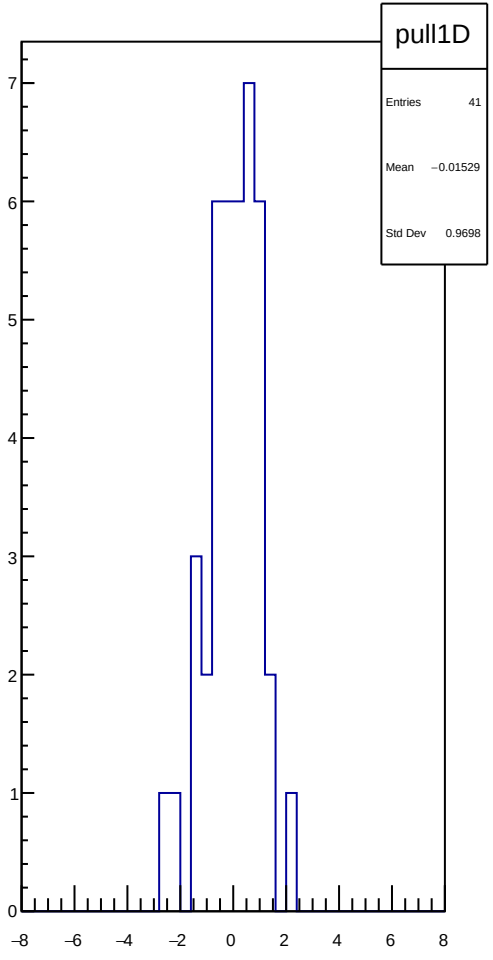

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2964 / 40
p0 0.0007866 ± 8.865e−07
0.95
0.9
0.85
0.8
0.75
0.7
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

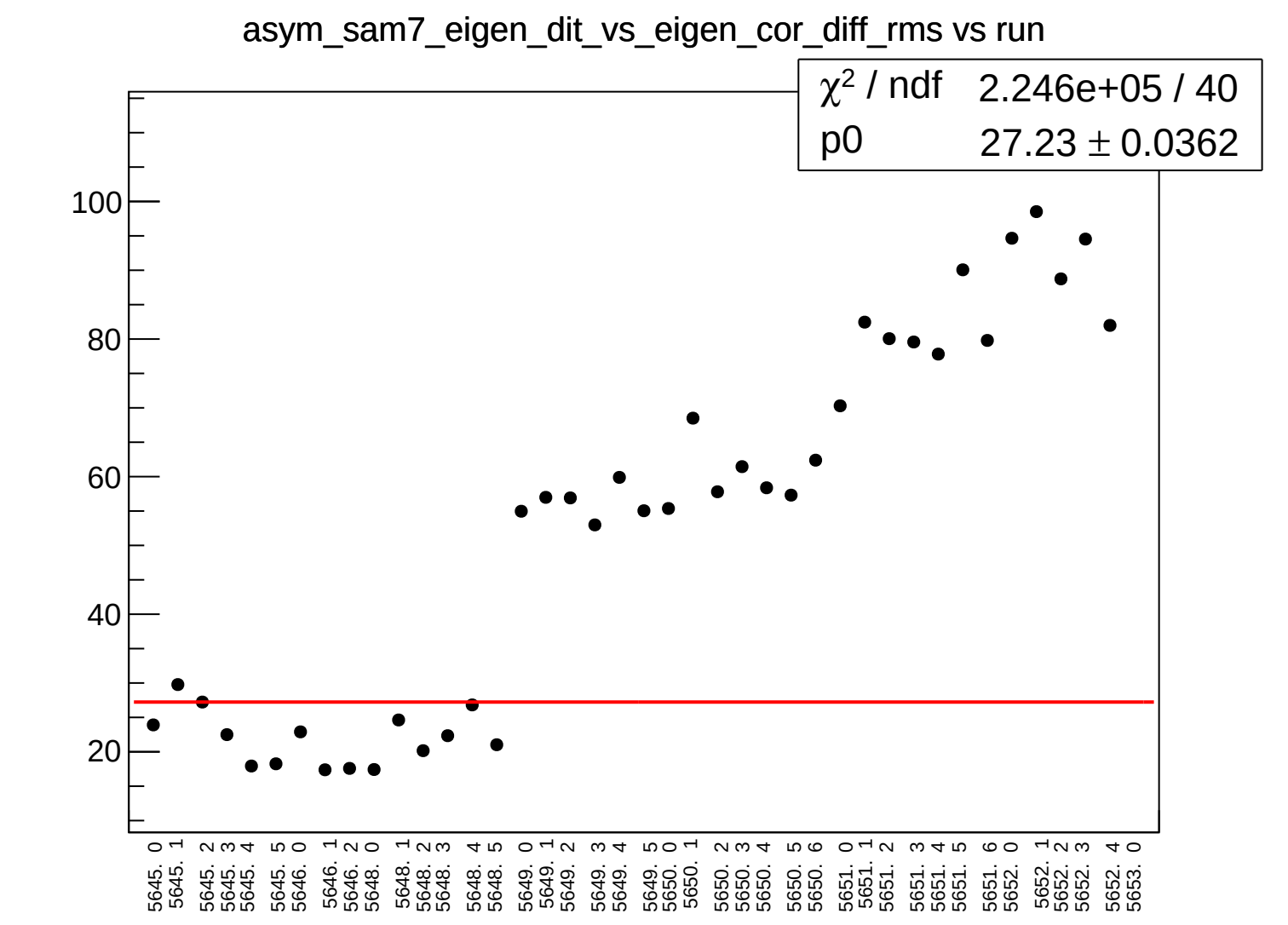

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.57 / 40
p0 −0.0492 ± 0.0512
pull
Entries 41
Mean 19.1
Std Dev 42.36


pull1D
Entries 41
Mean −0.01529
Std Dev 0.9698


asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.246e+05 / 40
p0 27.23 ± 0.0362
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.57 / 40
p0 −0.0492 ± 0.0512
pull
Entries 41
Mean 19.1
Std Dev 42.36


pull1D
Entries 41
Mean −0.01529
Std Dev 0.9698


asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.246e+05 / 40
p0 27.23 ± 0.0362
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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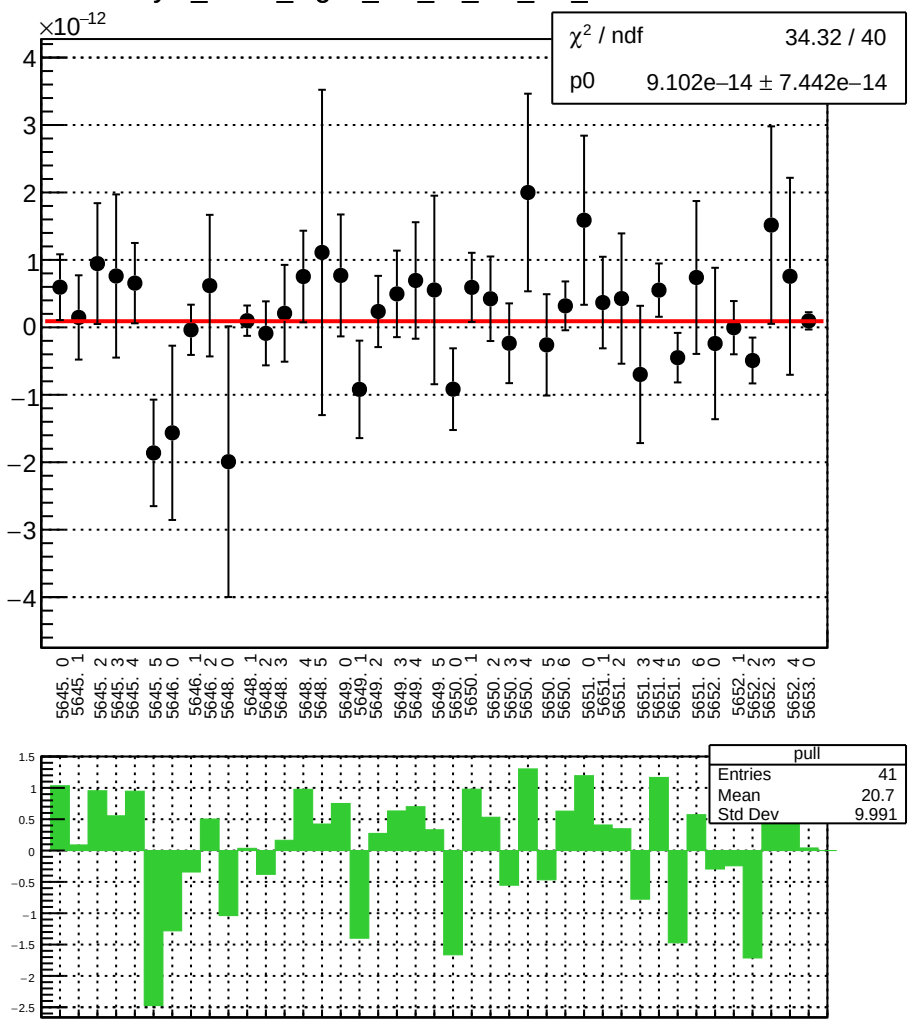
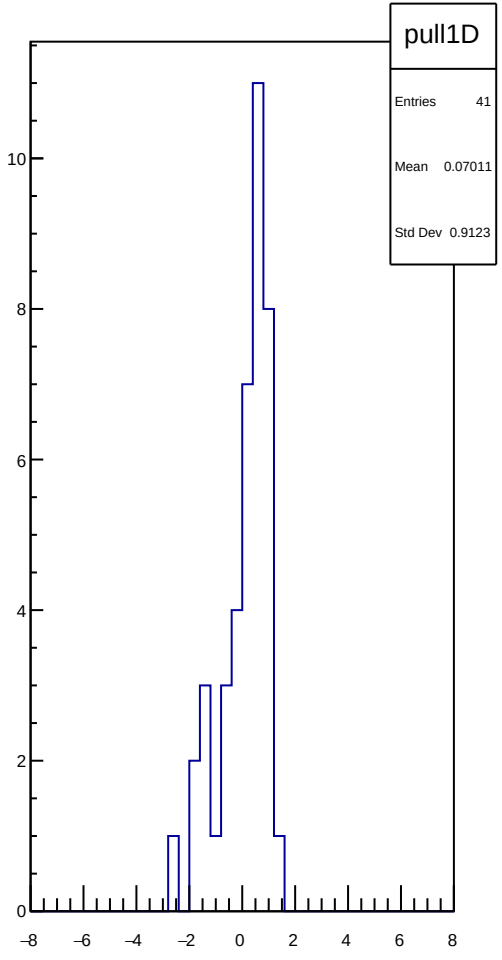
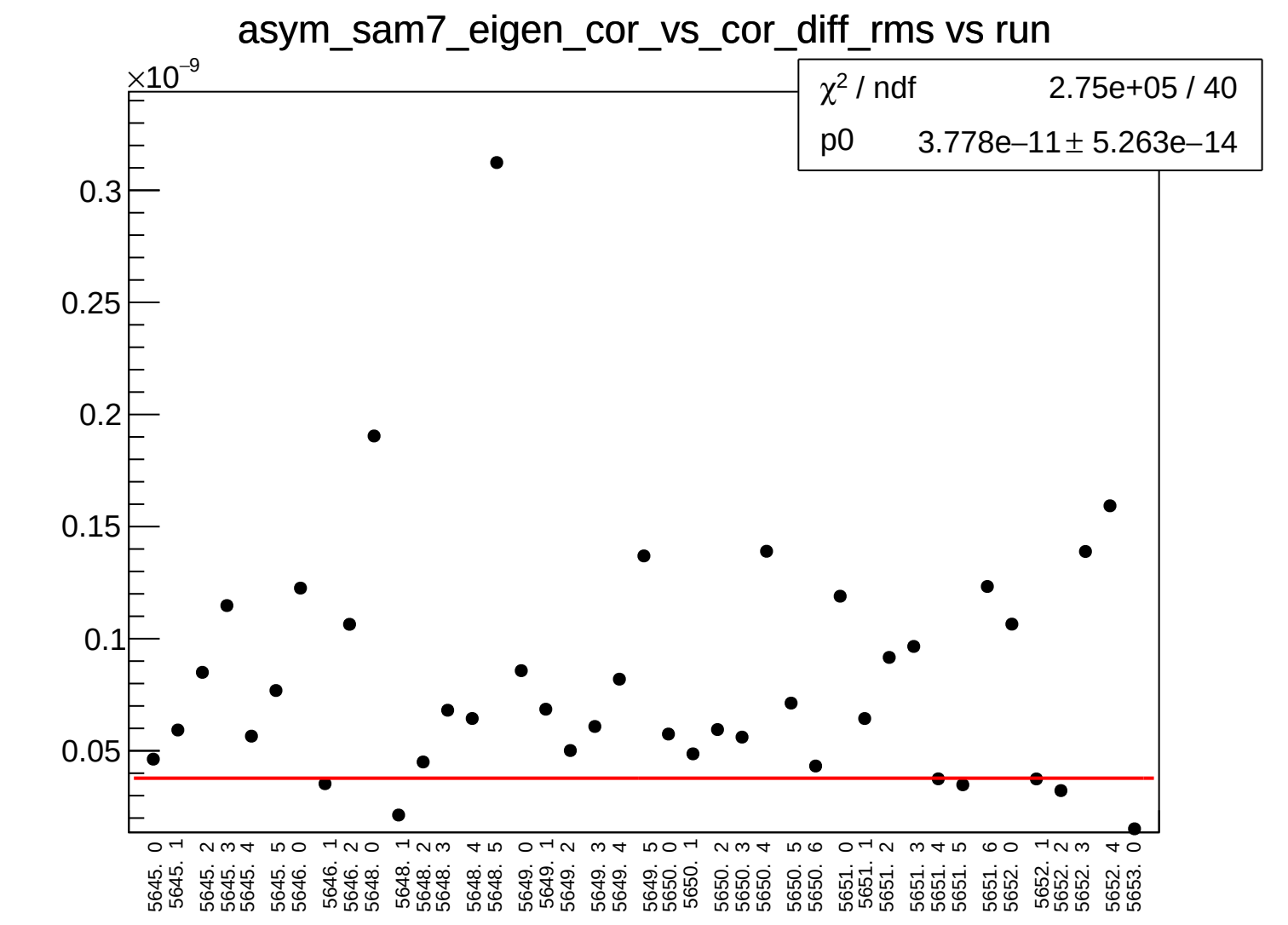
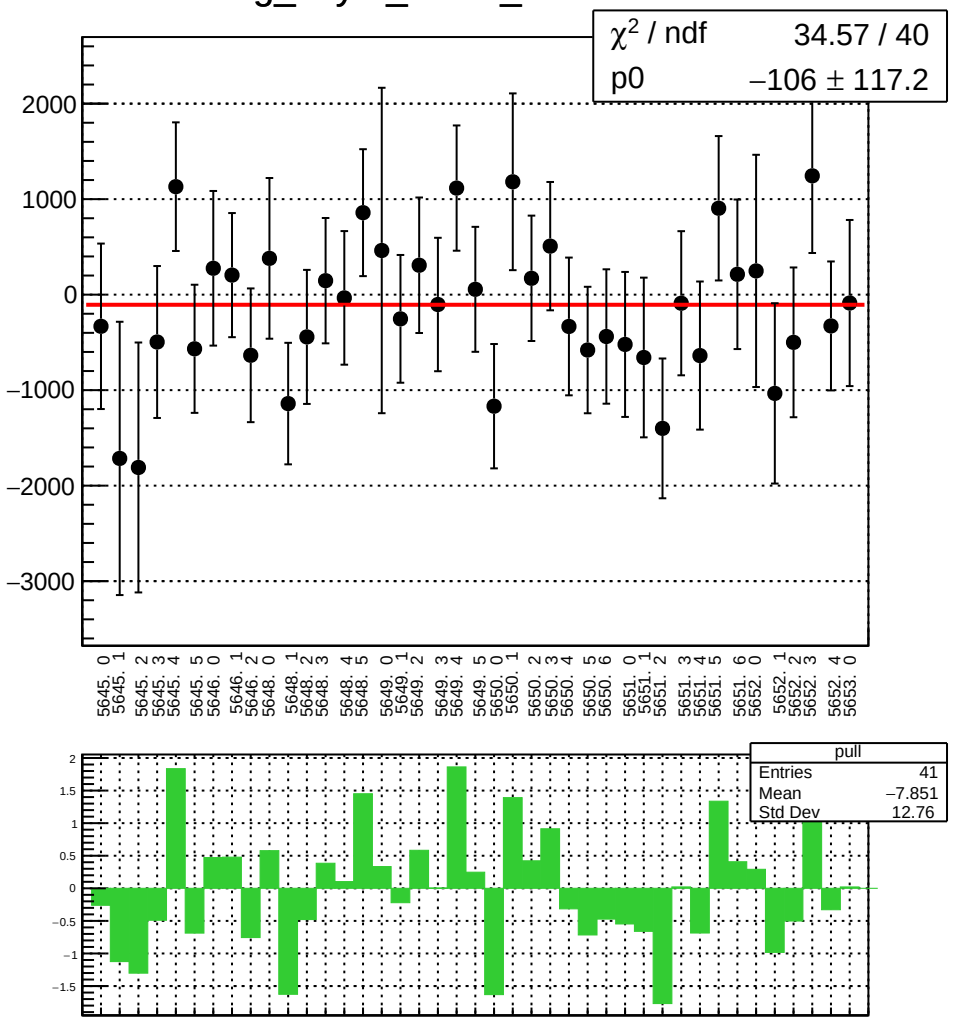
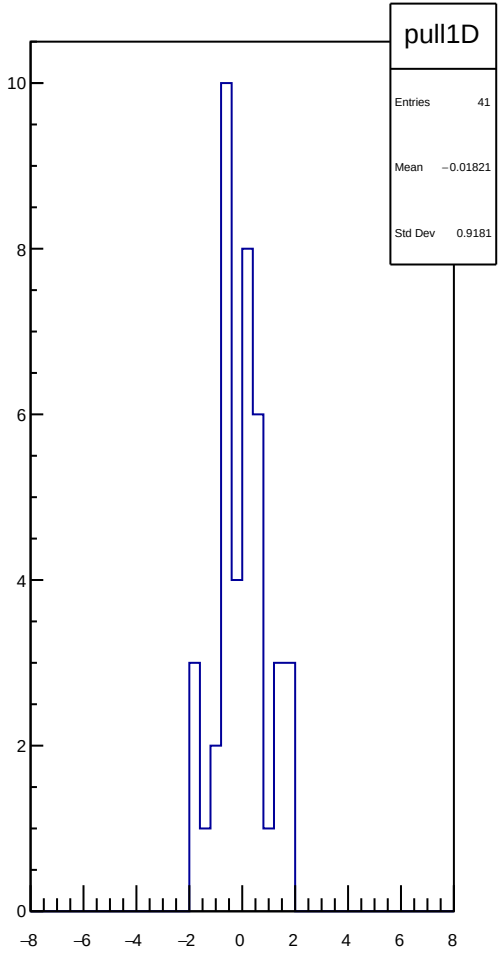
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

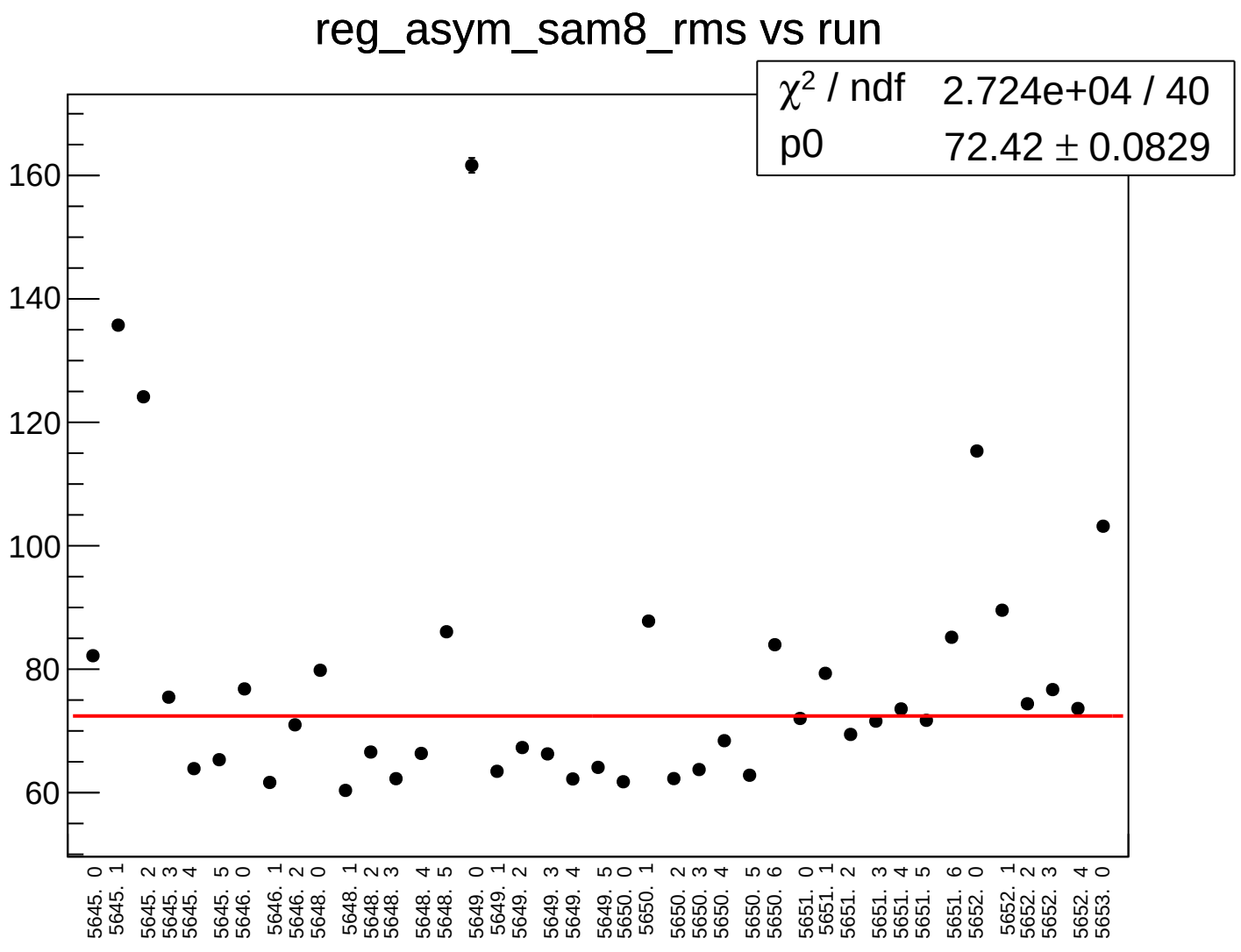

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 34.32 / 40
p0 9.102e−14 ± 7.442e−14
pull
Entries 41
Mean 20.7
Std Dev 9.991

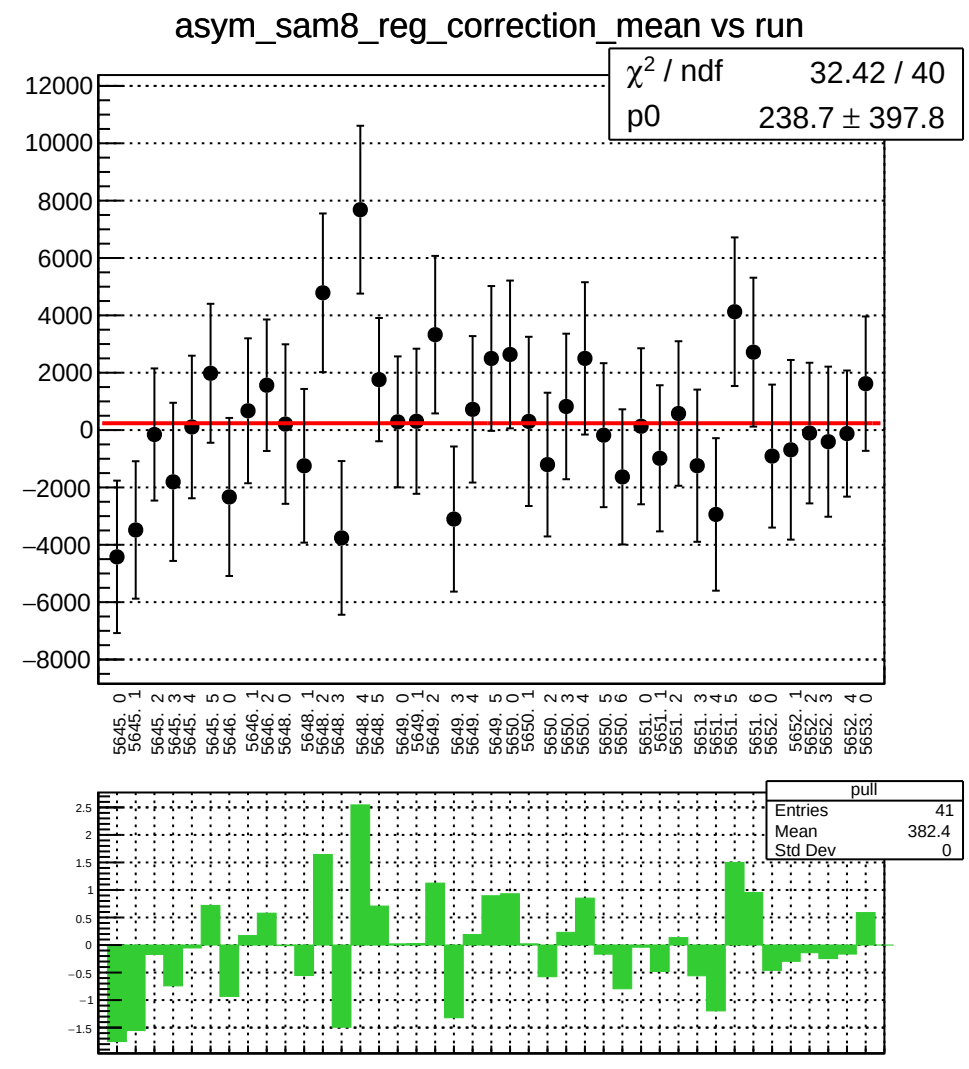

pull1D
Entries 41
Mean 0.07011
Std Dev 0.9123

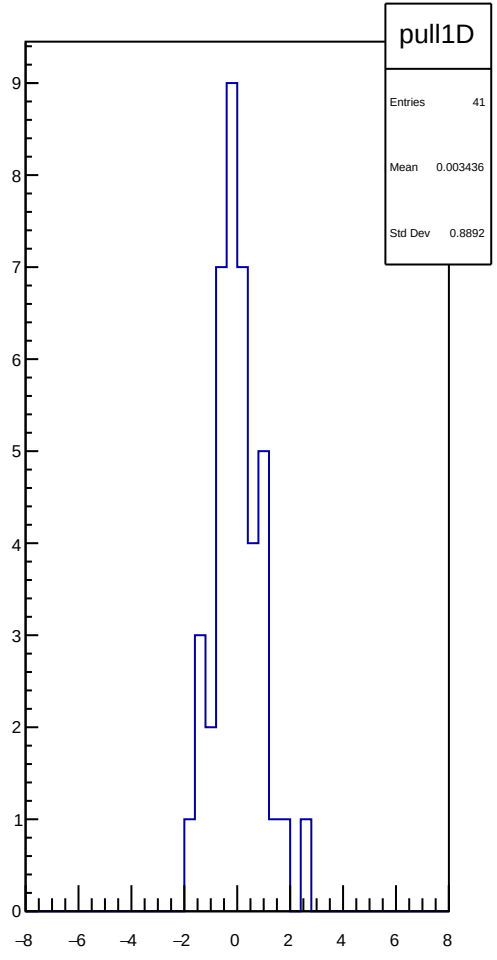

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.75e+05 / 40
p0 3.778e−11 ± 5.263e−14
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

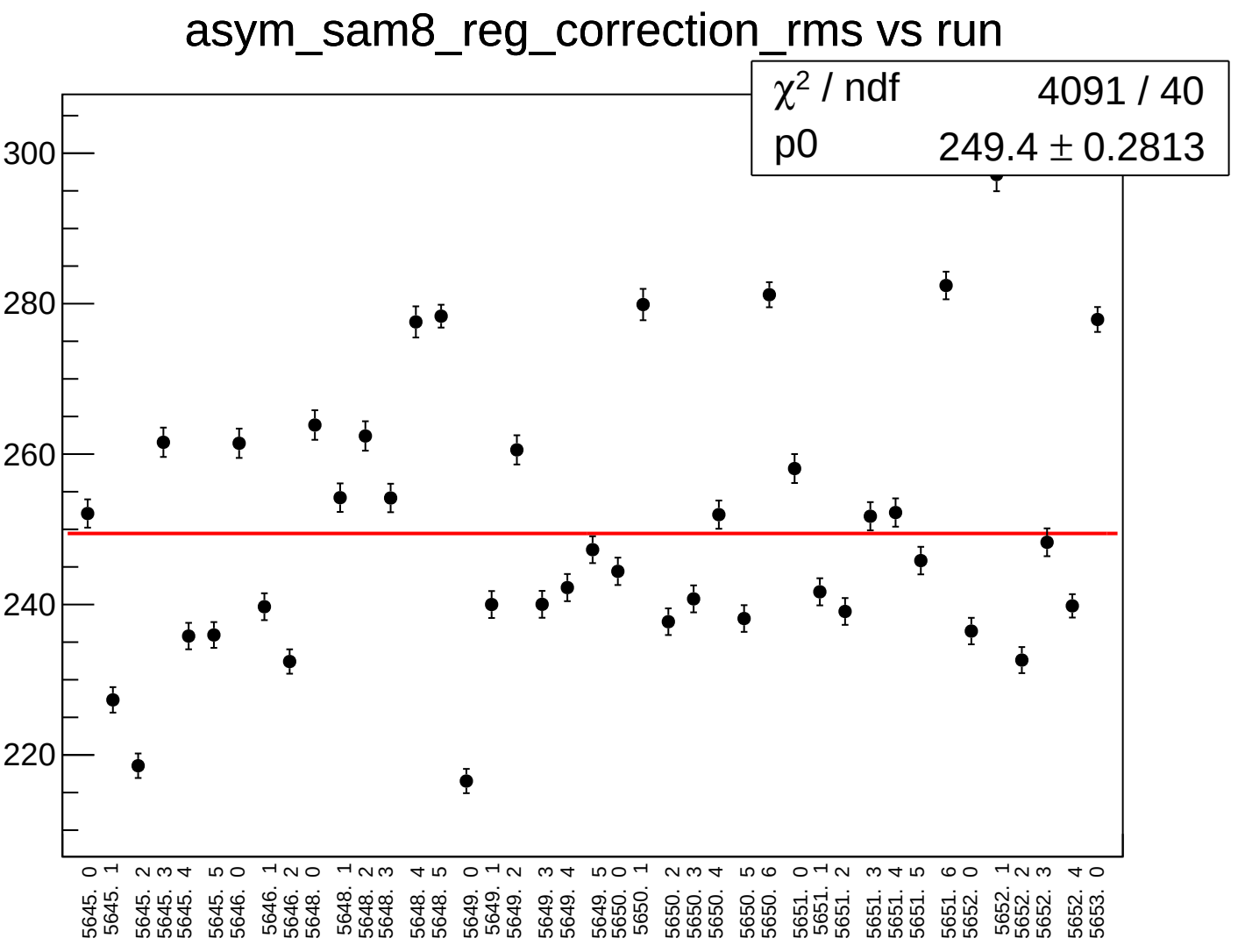

reg_asym_sam8_mean vs run
χ² / ndf 34.57 / 40
p0 −106 ± 117.2
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.851
Std Dev 12.76
2
1.5
1
0.5
0
−0.5
−1
−1.5

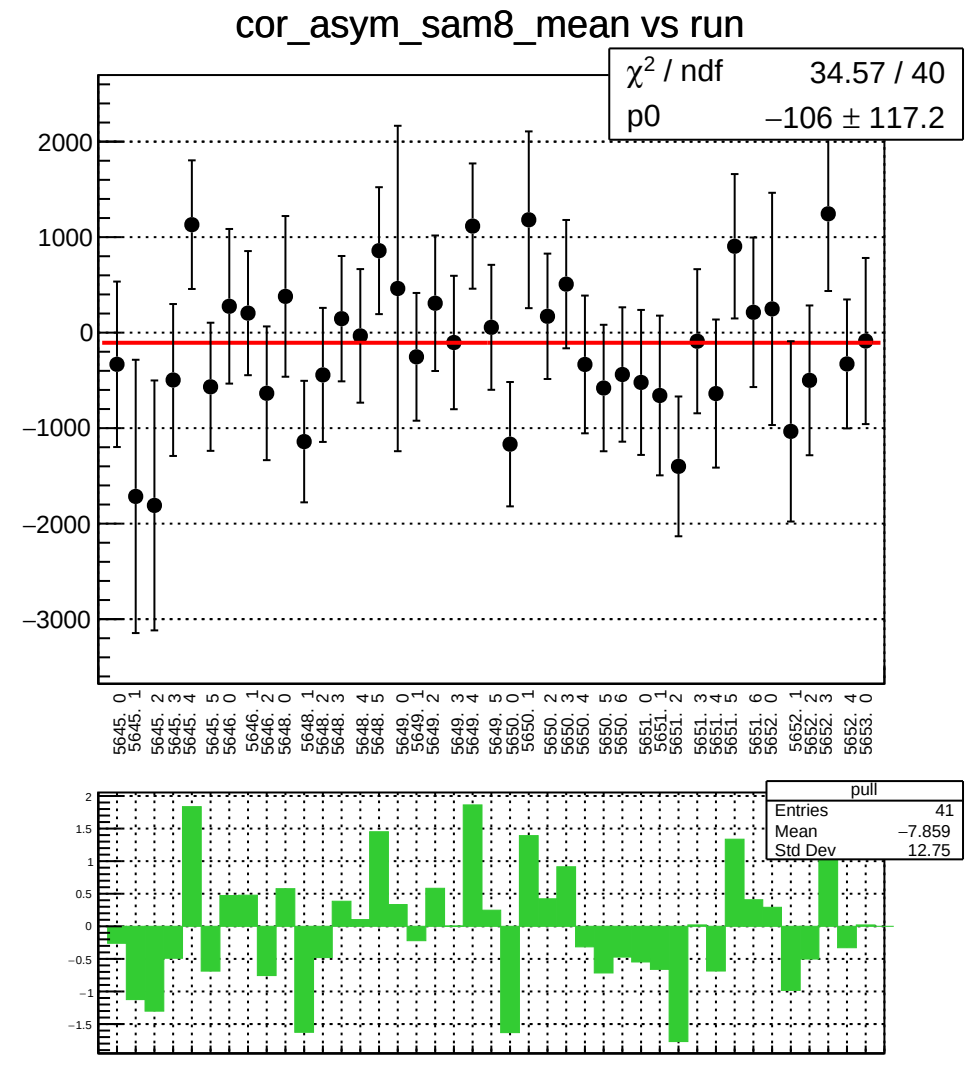

pull1D
Entries 41
Mean −0.01821
Std Dev 0.9181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

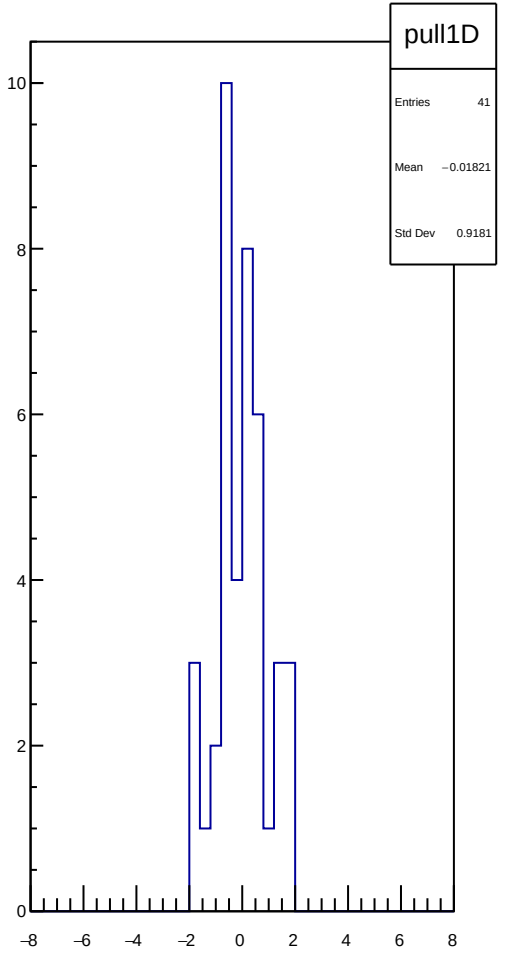

reg_asym_sam8_rms vs run
χ² / ndf 2.724e+04 / 40
p0 72.42 ± 0.0829
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

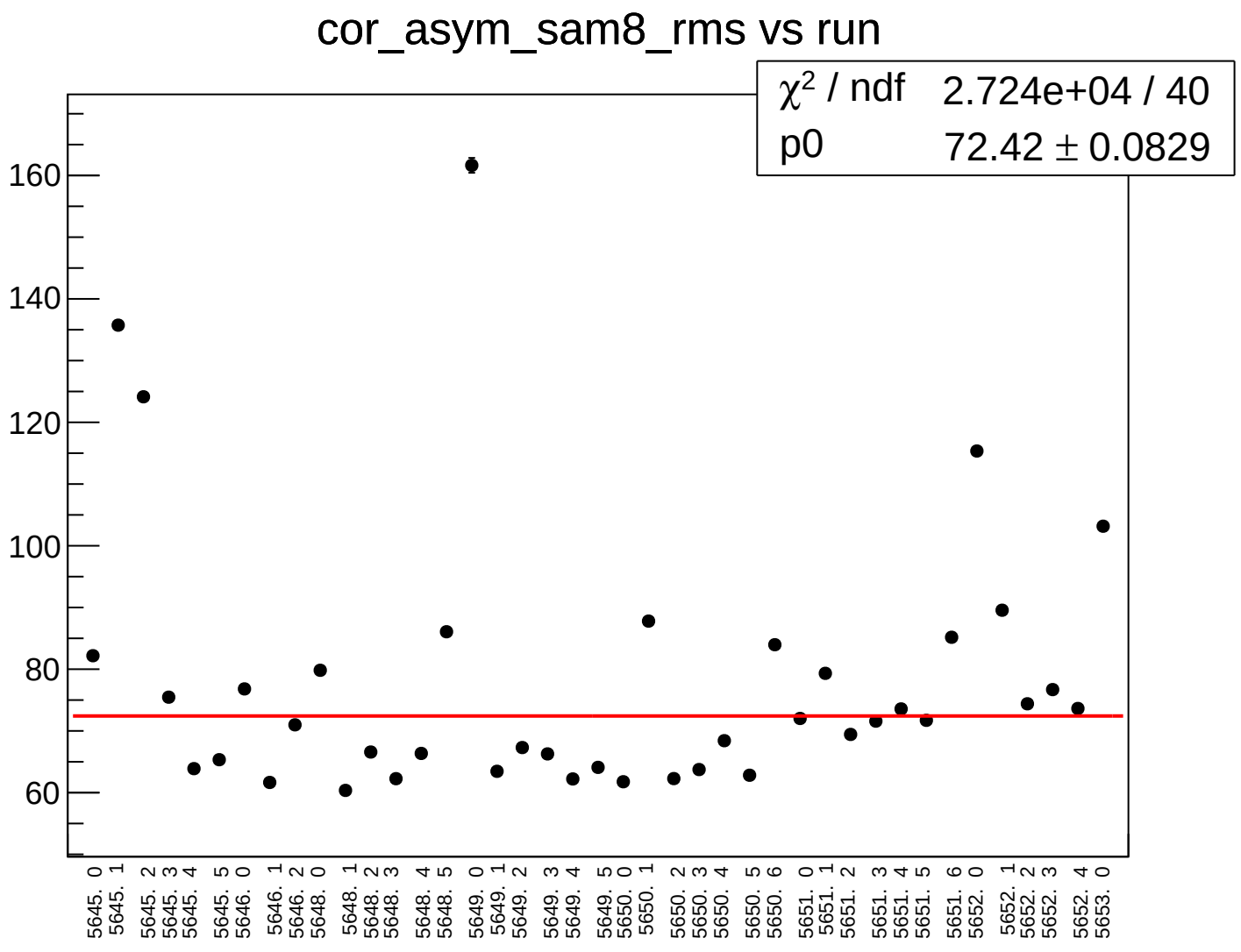

asym_sam8_reg_correction_mean vs run
χ² / ndf 32.42 / 40
p0 238.7 ± 397.8
pull
Entries 41
Mean 382.4
Std Dev 0

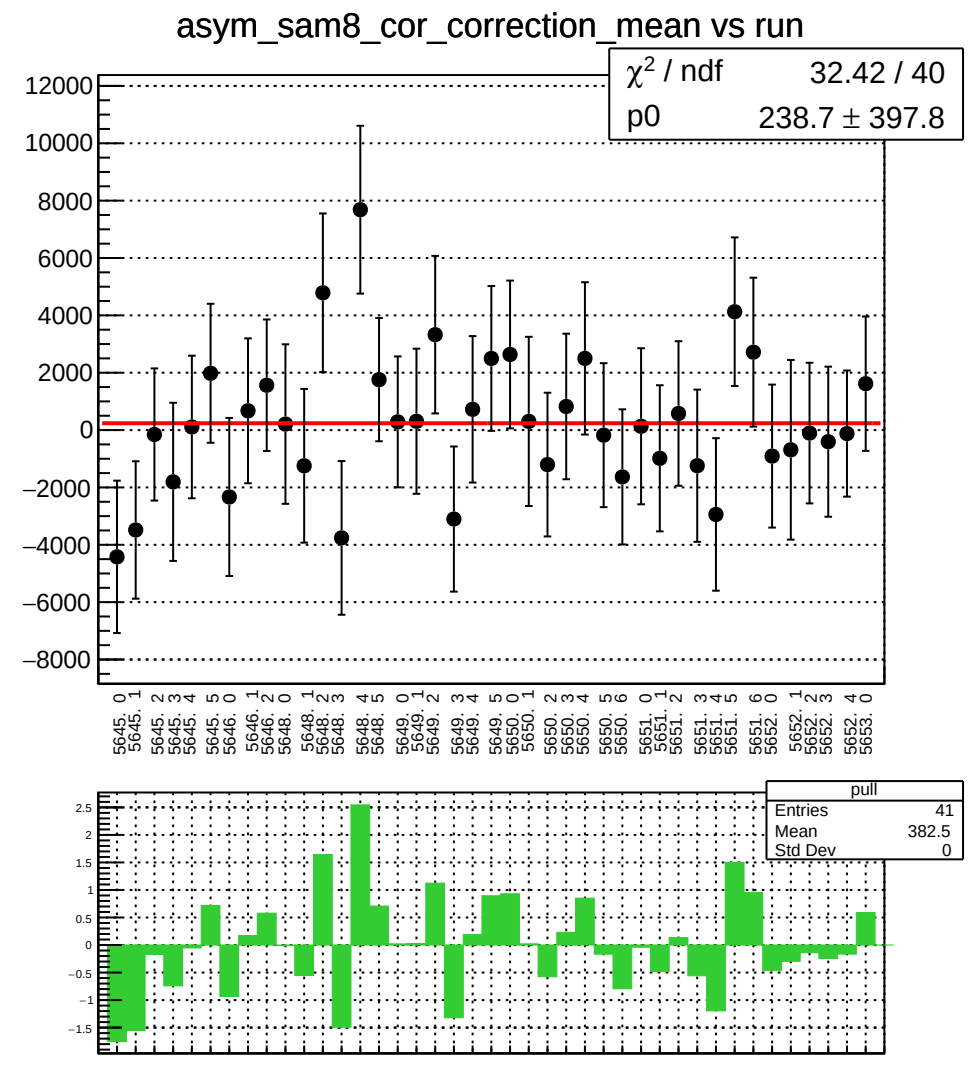

pull1D
Entries 41
Mean 0.003436
Std Dev 0.8892

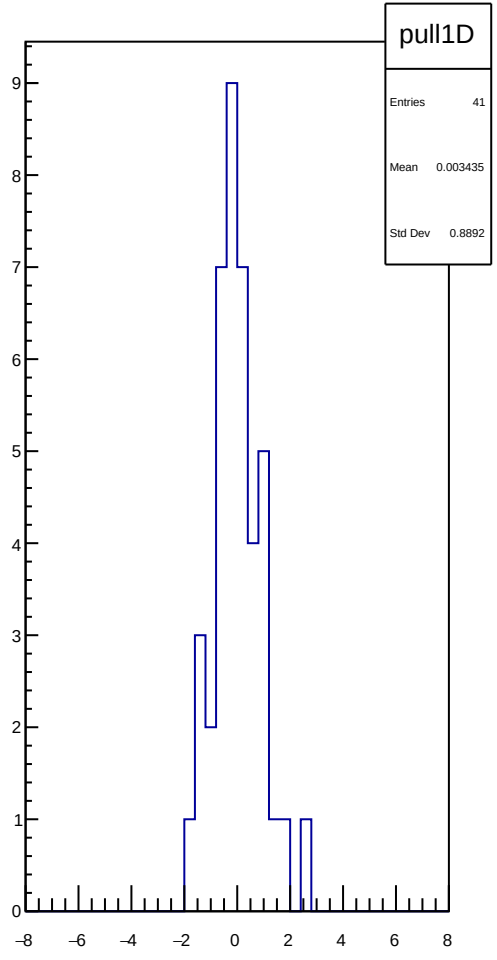

asym_sam8_reg_correction_rms vs run
χ² / ndf 4091 / 40
p0 249.4 ± 0.2813
300
280
260
240
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

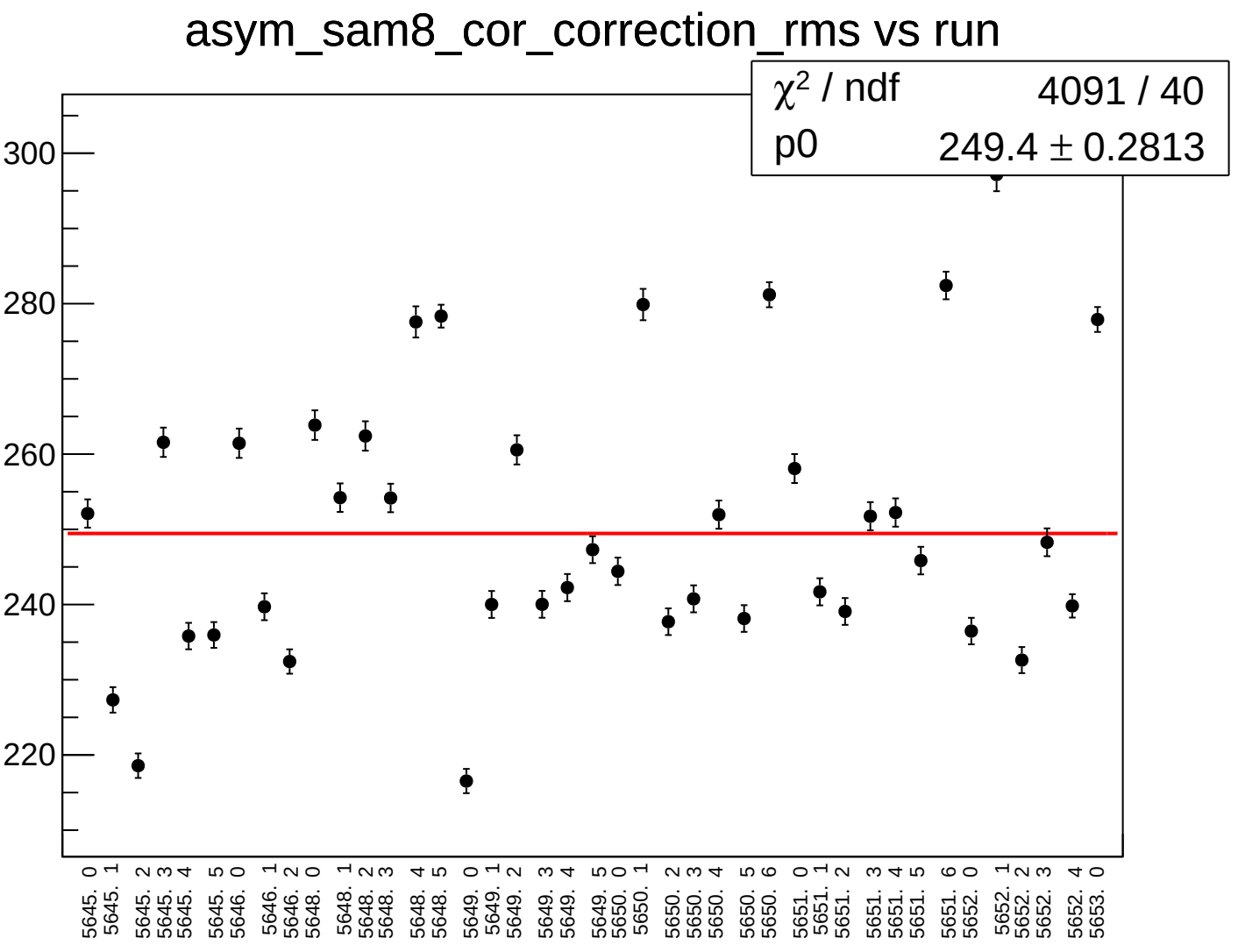

cor_asym_sam8_mean vs run
χ² / ndf 34.57 / 40
p0 −106 ± 117.2
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.859
Std Dev 12.75
2
1.5
1
0.5
0
−0.5
−1
−1.5

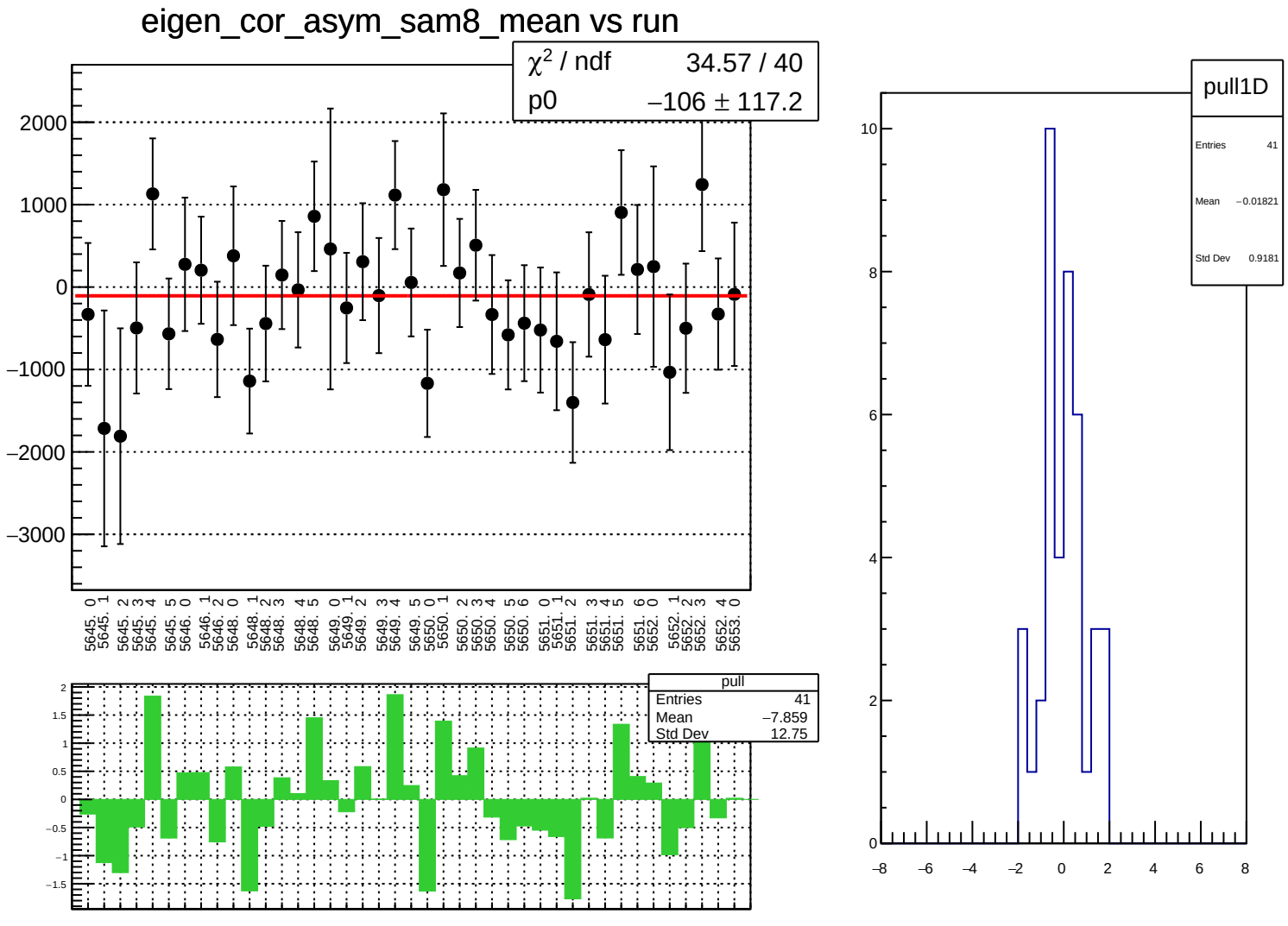

pull1D
Entries 41
Mean −0.01821
Std Dev 0.9181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

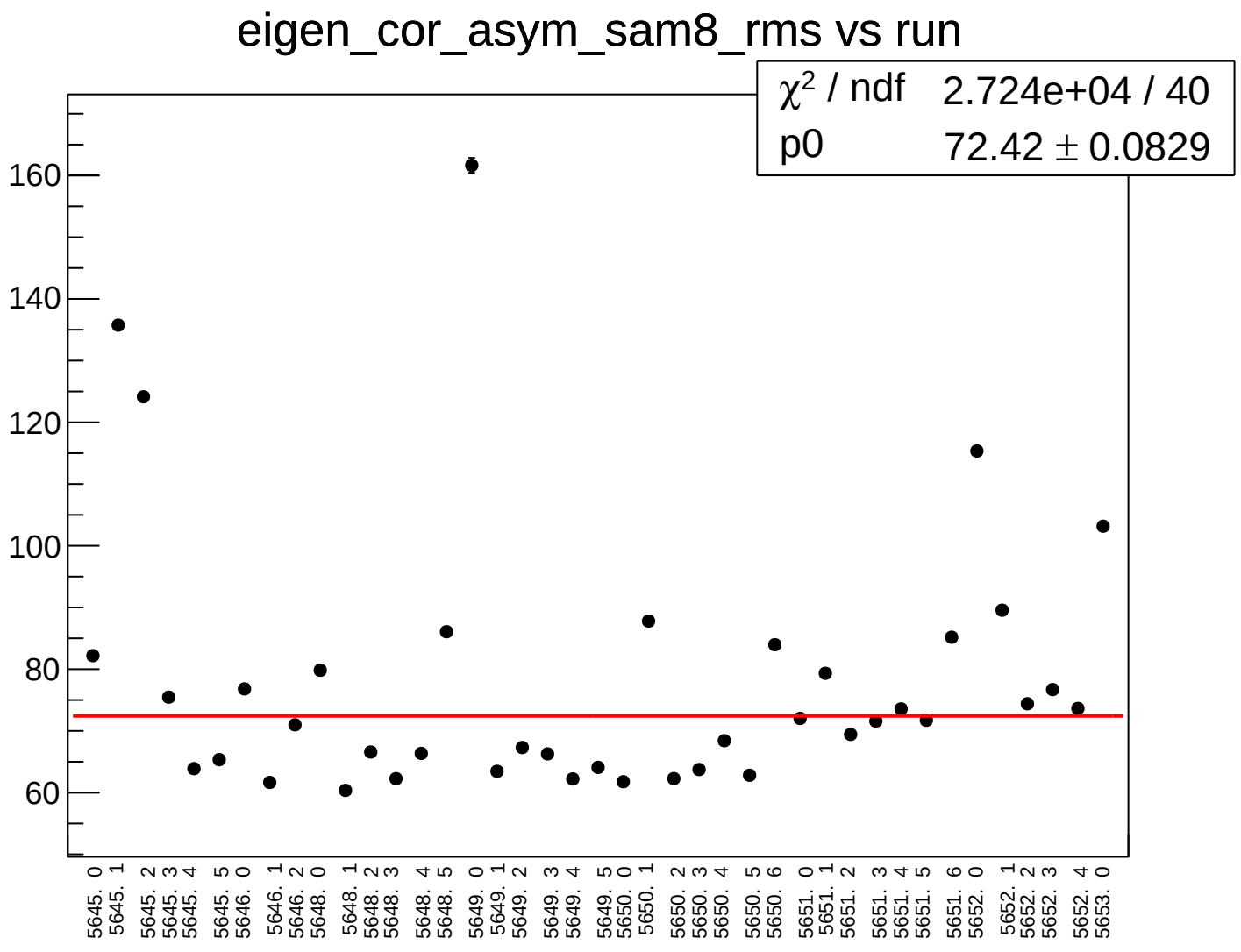

cor_asym_sam8_rms vs run
χ² / ndf 2.724e+04 / 40
p0 72.42 ± 0.0829
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

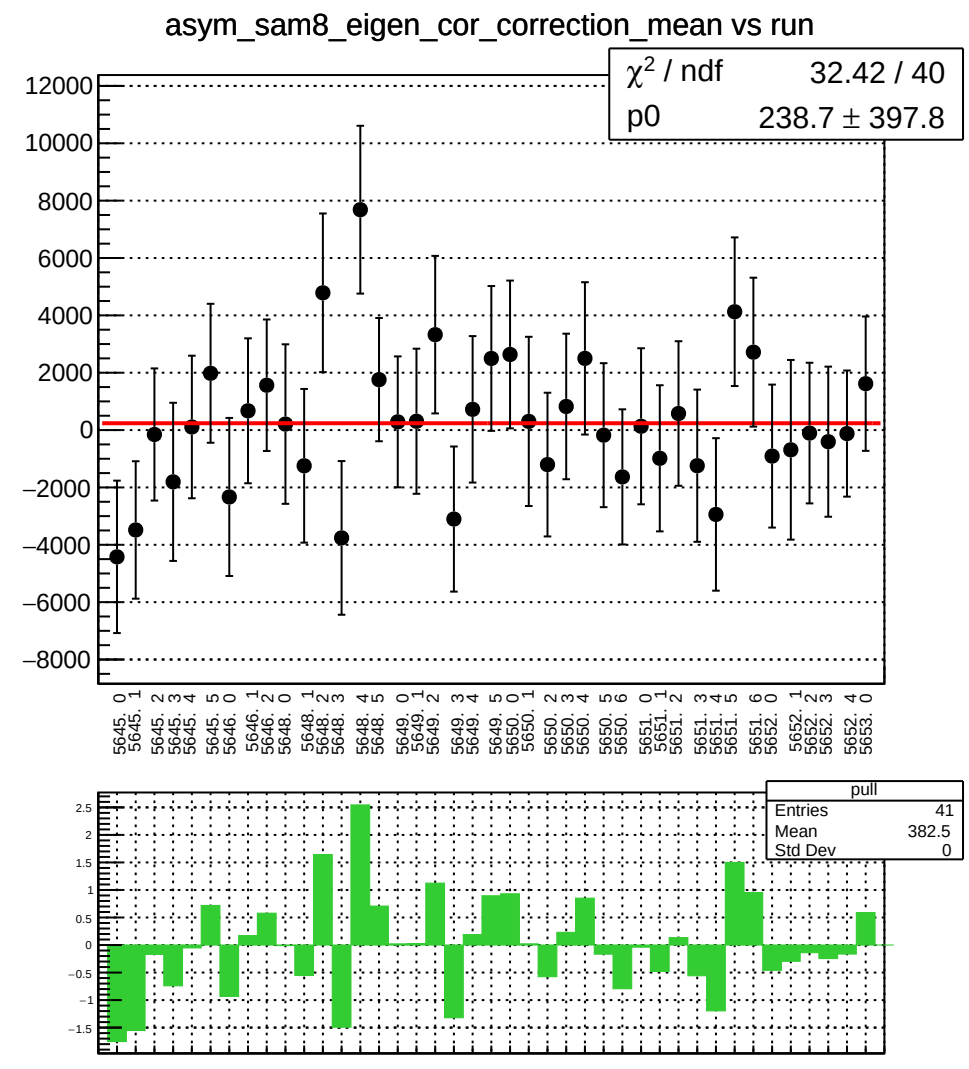

asym_sam8_cor_correction_mean vs run
χ² / ndf 32.42 / 40
p0 238.7 ± 397.8
pull
Entries 41
Mean 382.5
Std Dev 0

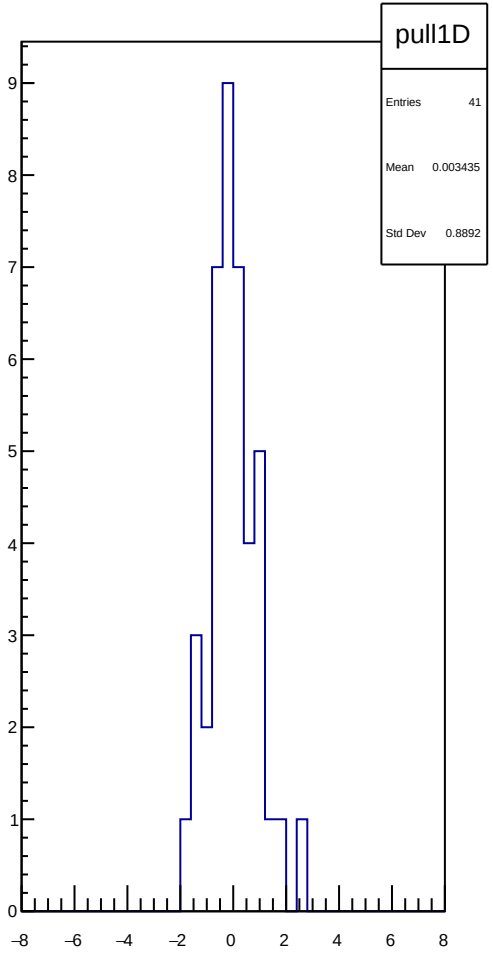

pull1D
Entries 41
Mean 0.003435
Std Dev 0.8892

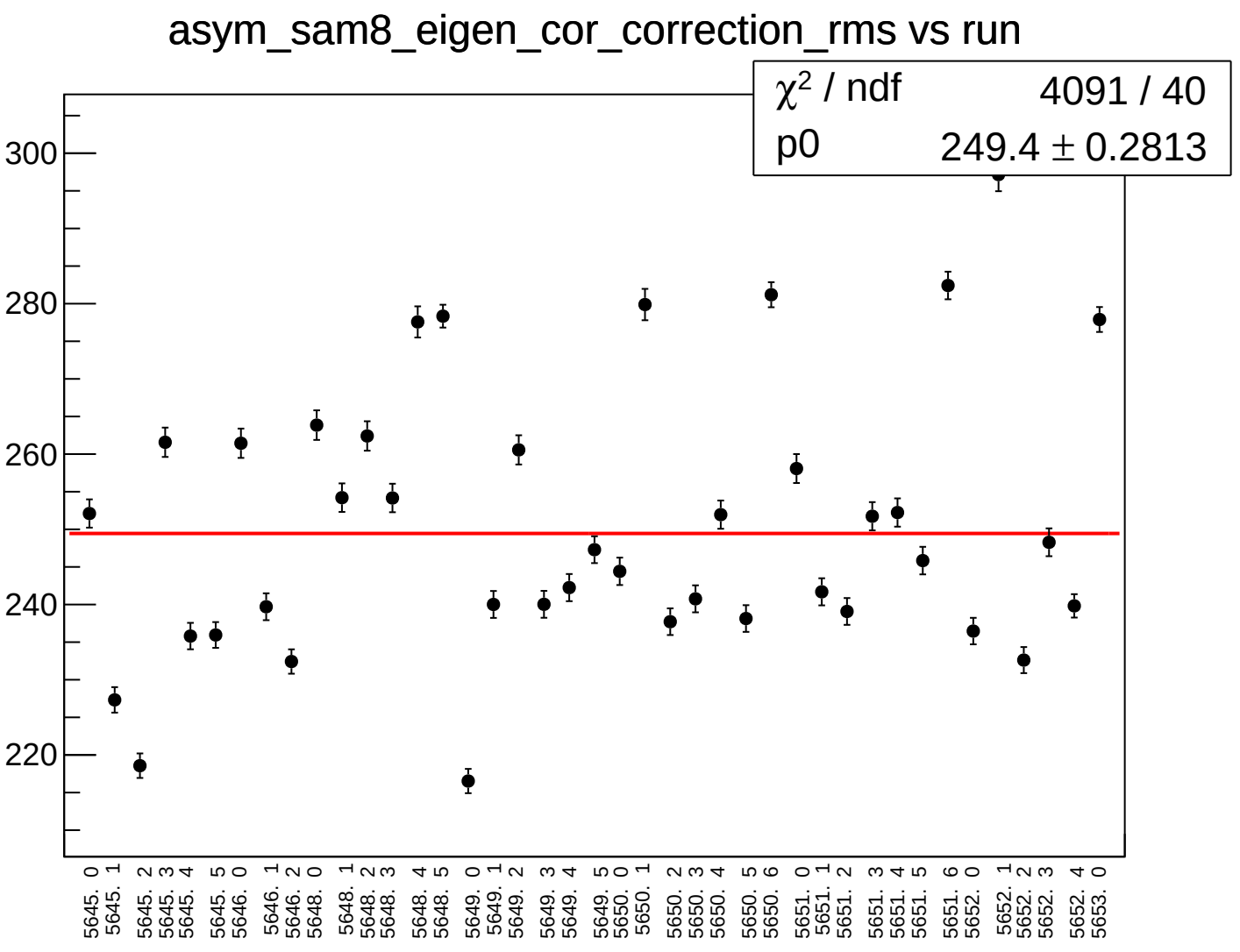

asym_sam8_cor_correction_rms vs run
χ² / ndf 4091 / 40
p0 249.4 ± 0.2813
300
280
260
240
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

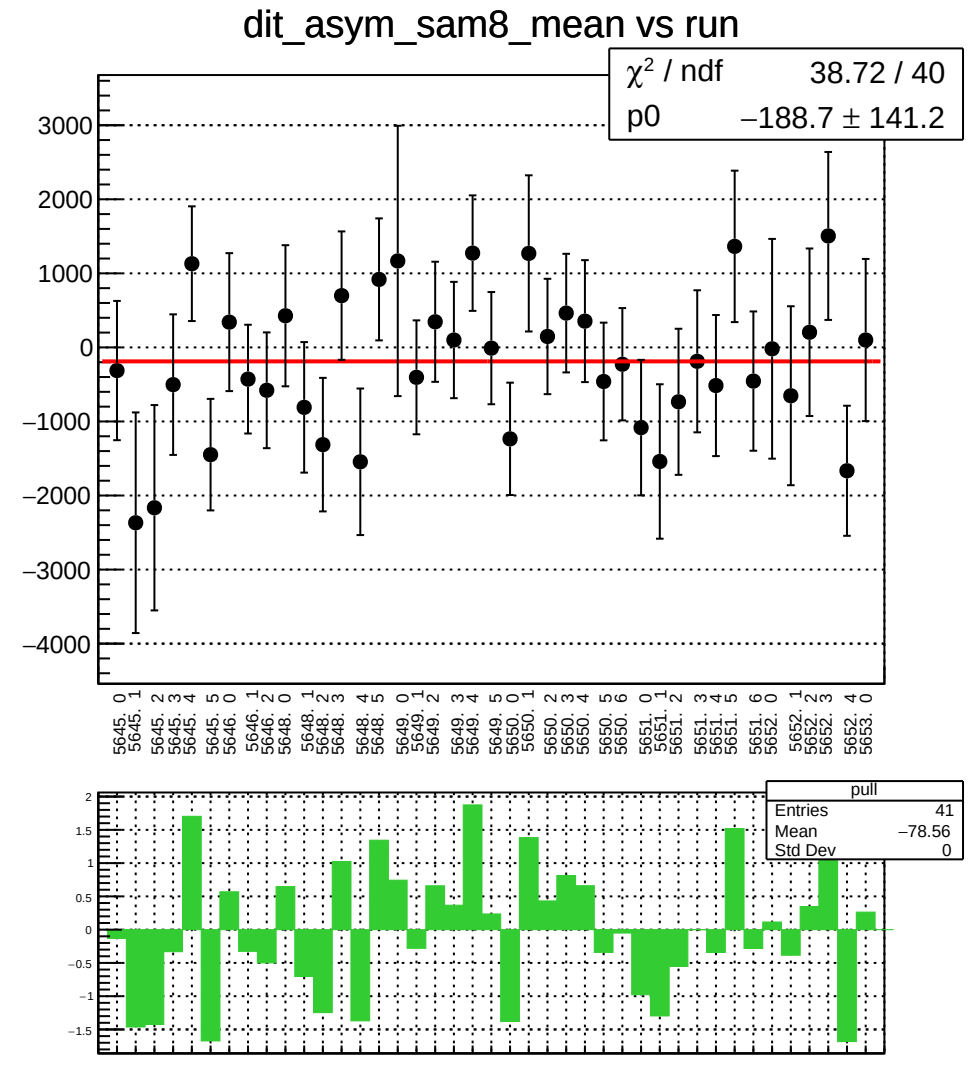

eigen_cor_asym_sam8_mean vs run
χ² / ndf 34.57 / 40
p0 −106 ± 117.2
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.859
Std Dev 12.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01821
Std Dev 0.9181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

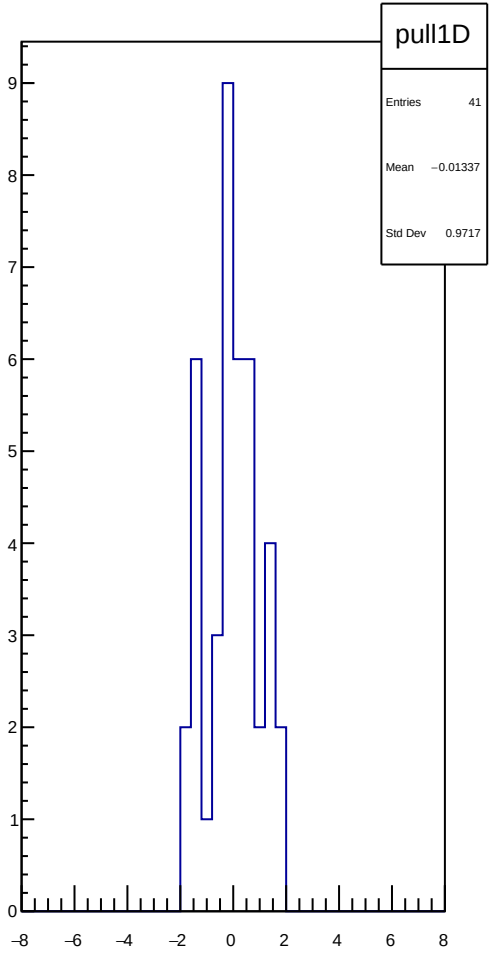

eigen_cor_asym_sam8_rms vs run
χ² / ndf 2.724e+04 / 40
p0 72.42 ± 0.0829
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

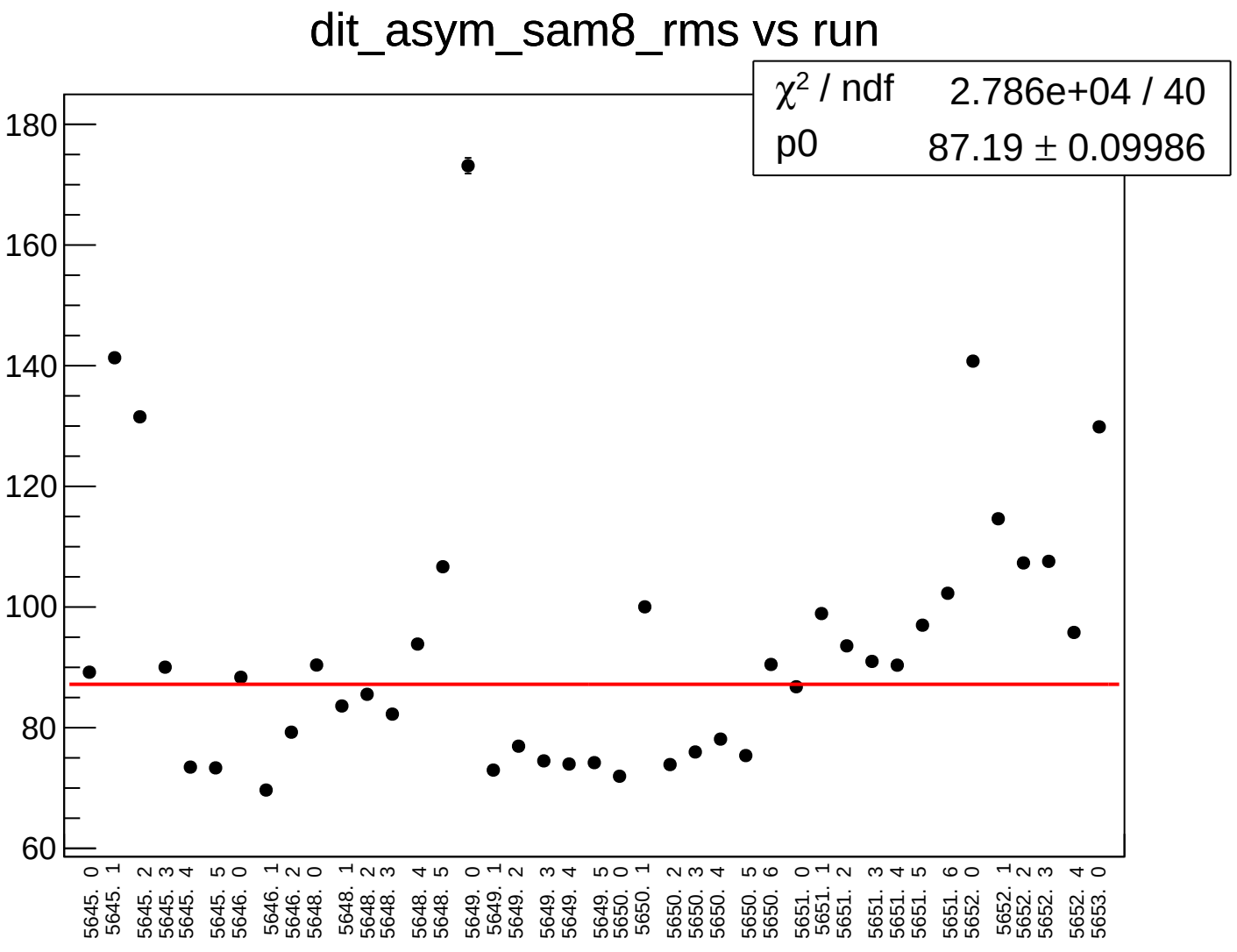

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 32.42 / 40
p0 238.7 ± 397.8
pull
Entries 41
Mean 382.5
Std Dev 0

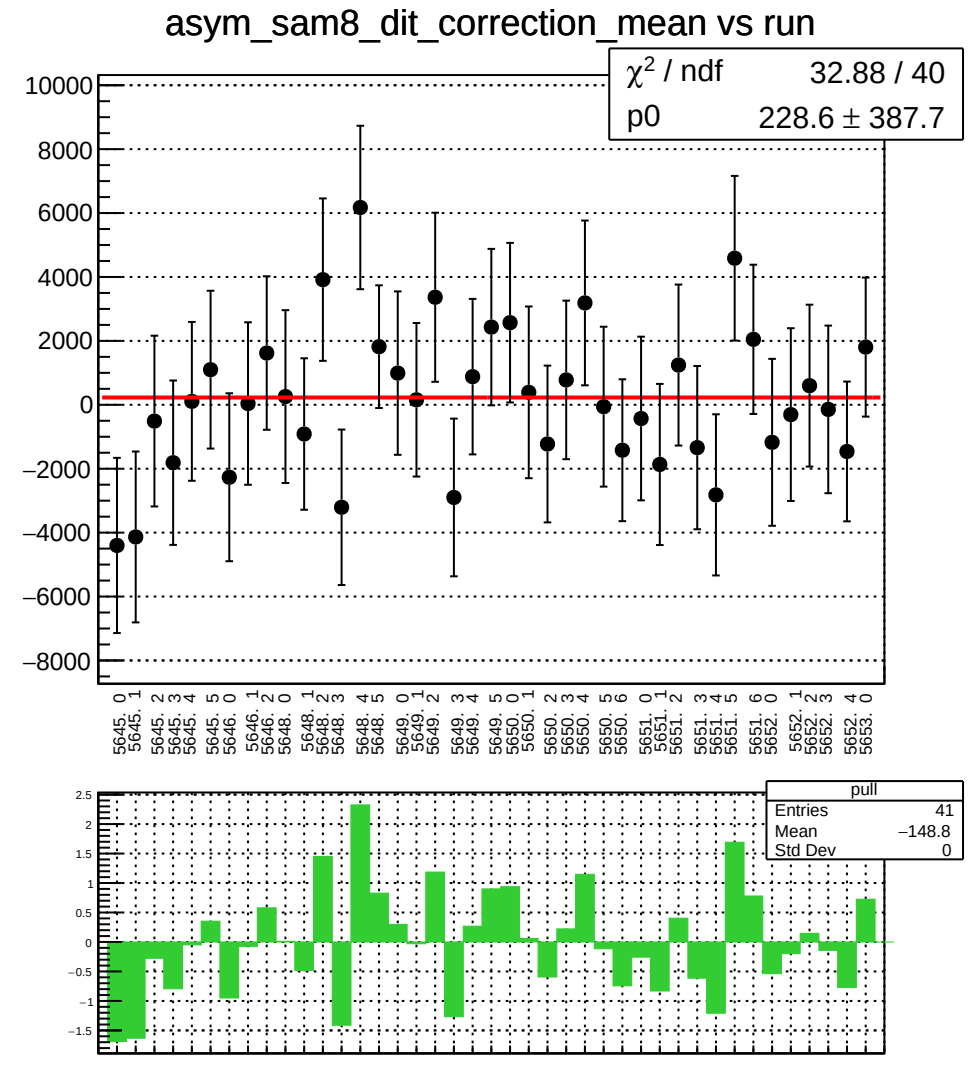

pull1D
Entries 41
Mean 0.003435
Std Dev 0.8892

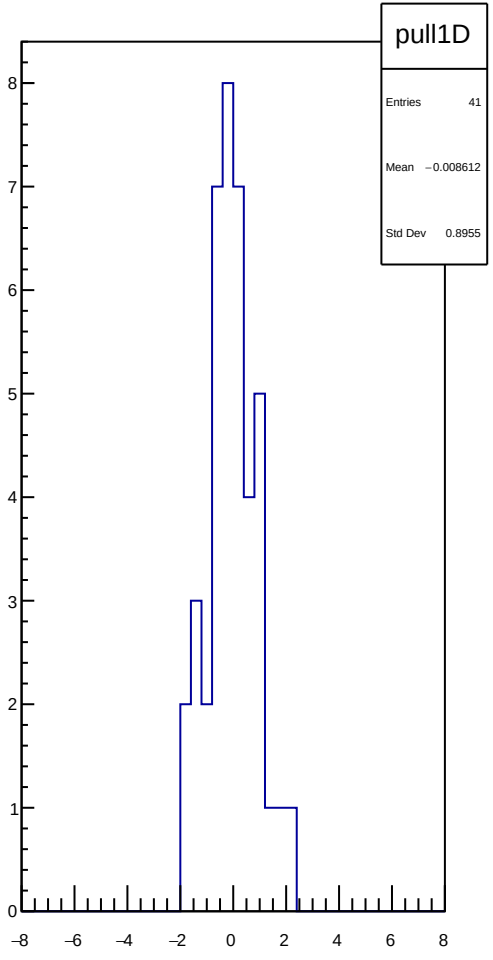

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4091 / 40
p0 249.4 ± 0.2813
300
280
260
240
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

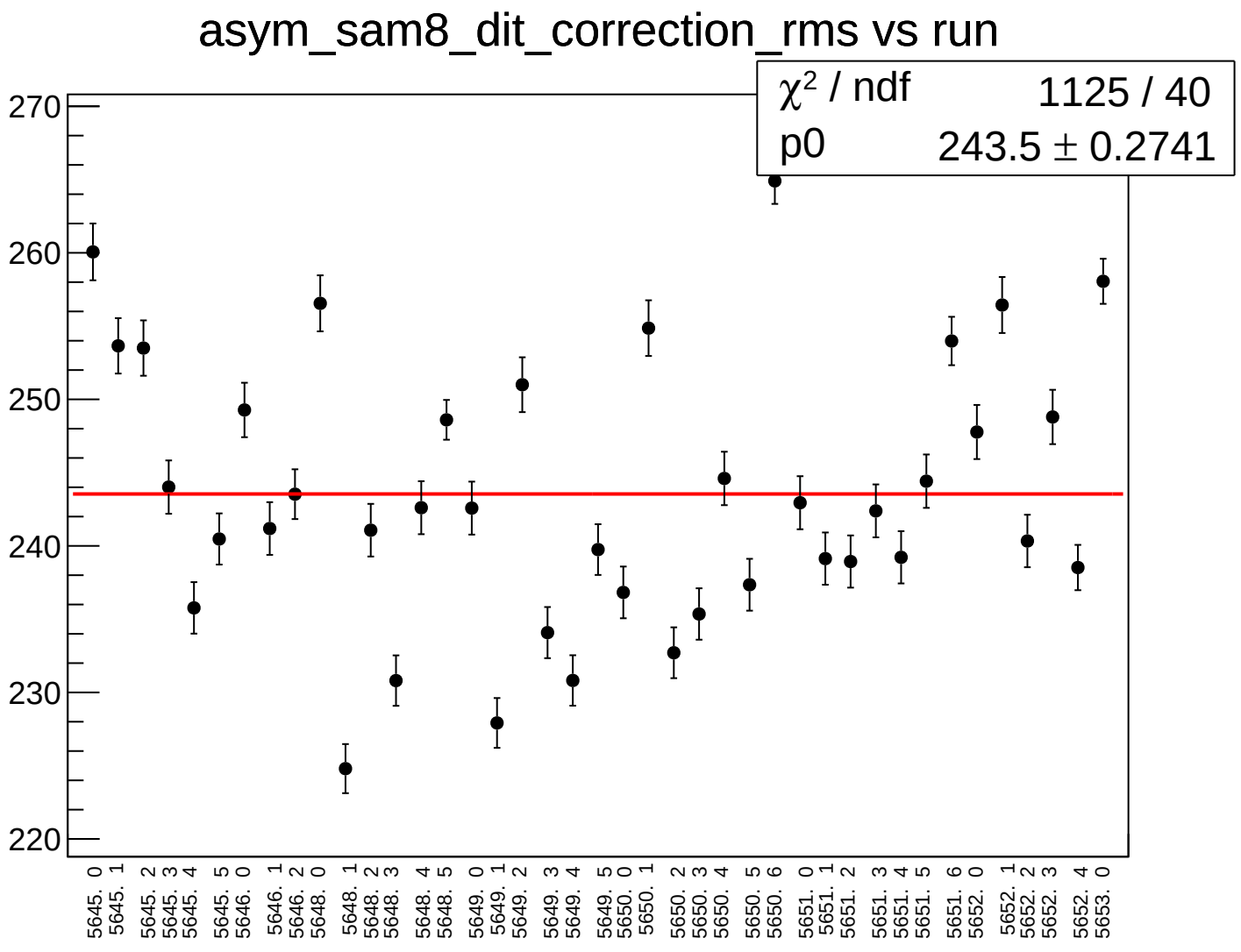

dit_asym_sam8_mean vs run
χ² / ndf 38.72 / 40
p0 −188.7 ± 141.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −78.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

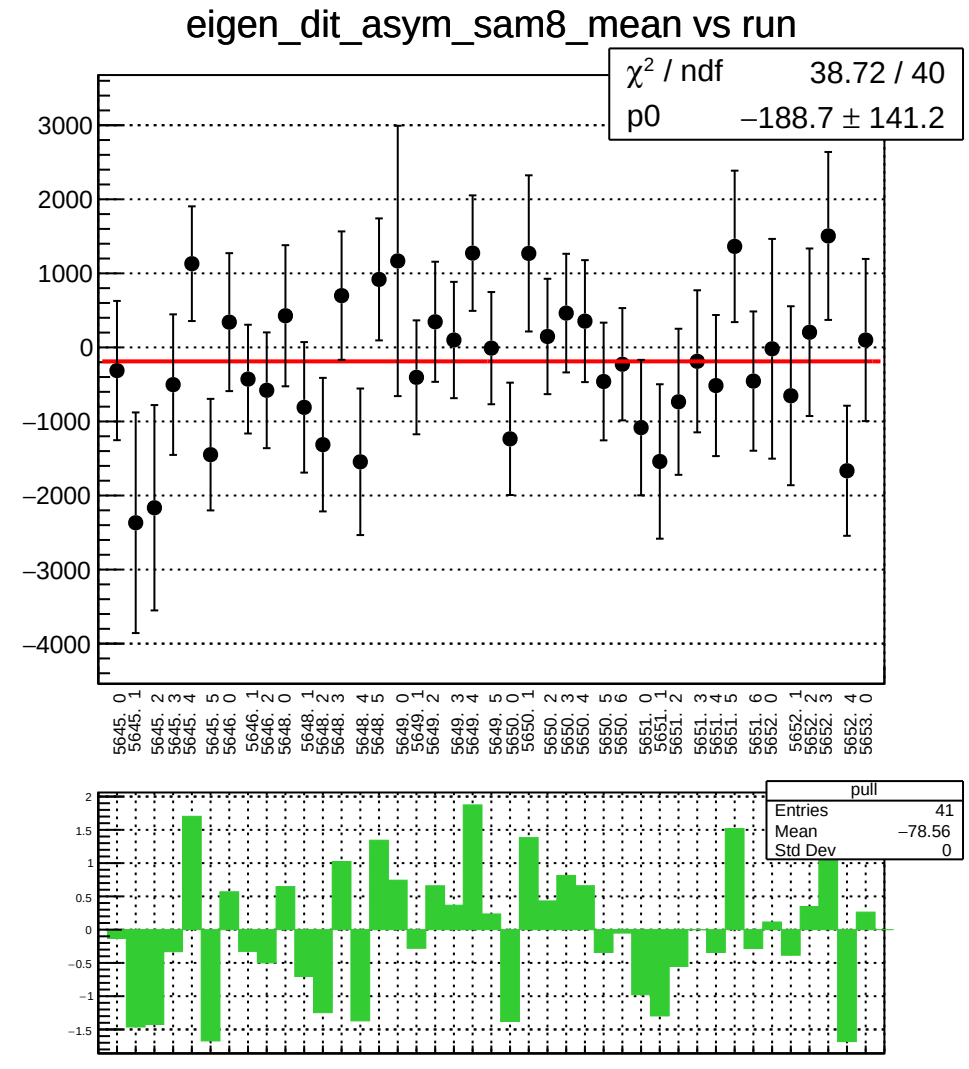

pull1D
Entries 41
Mean −0.01337
Std Dev 0.9717
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

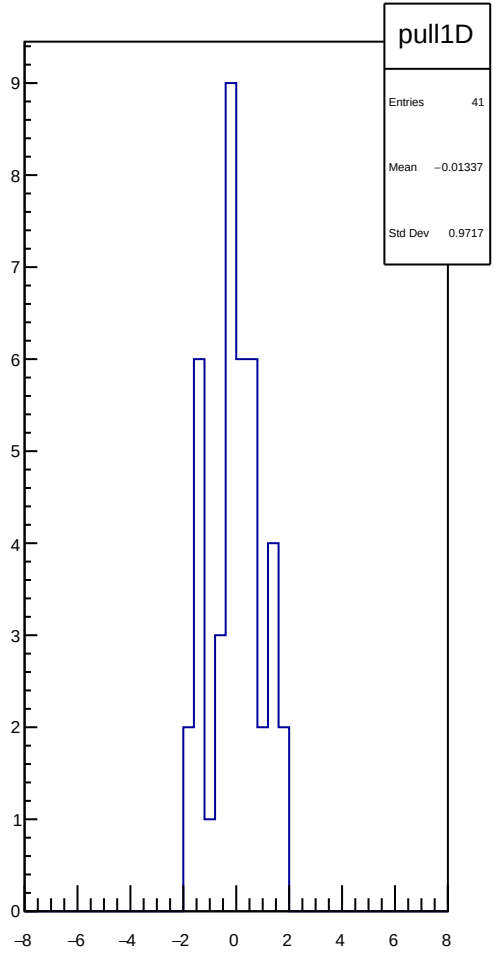

dit_asym_sam8_rms vs run
χ² / ndf 2.786e+04 / 40
p0 87.19 ± 0.09986
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

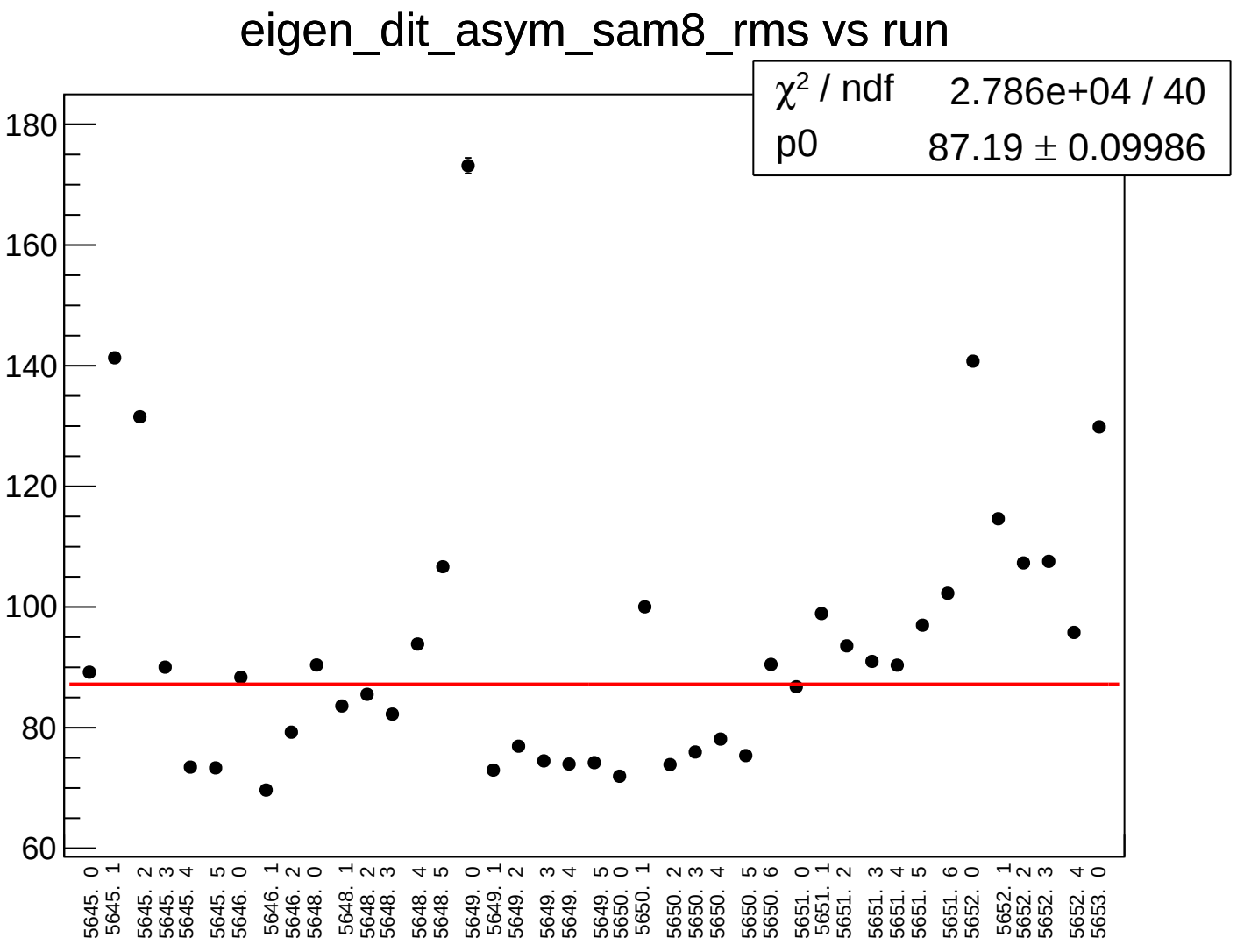

asym_sam8_dit_correction_mean vs run
χ² / ndf 32.88 / 40
p0 228.6 ± 387.7
pull
Entries 41
Mean −148.8
Std Dev 0

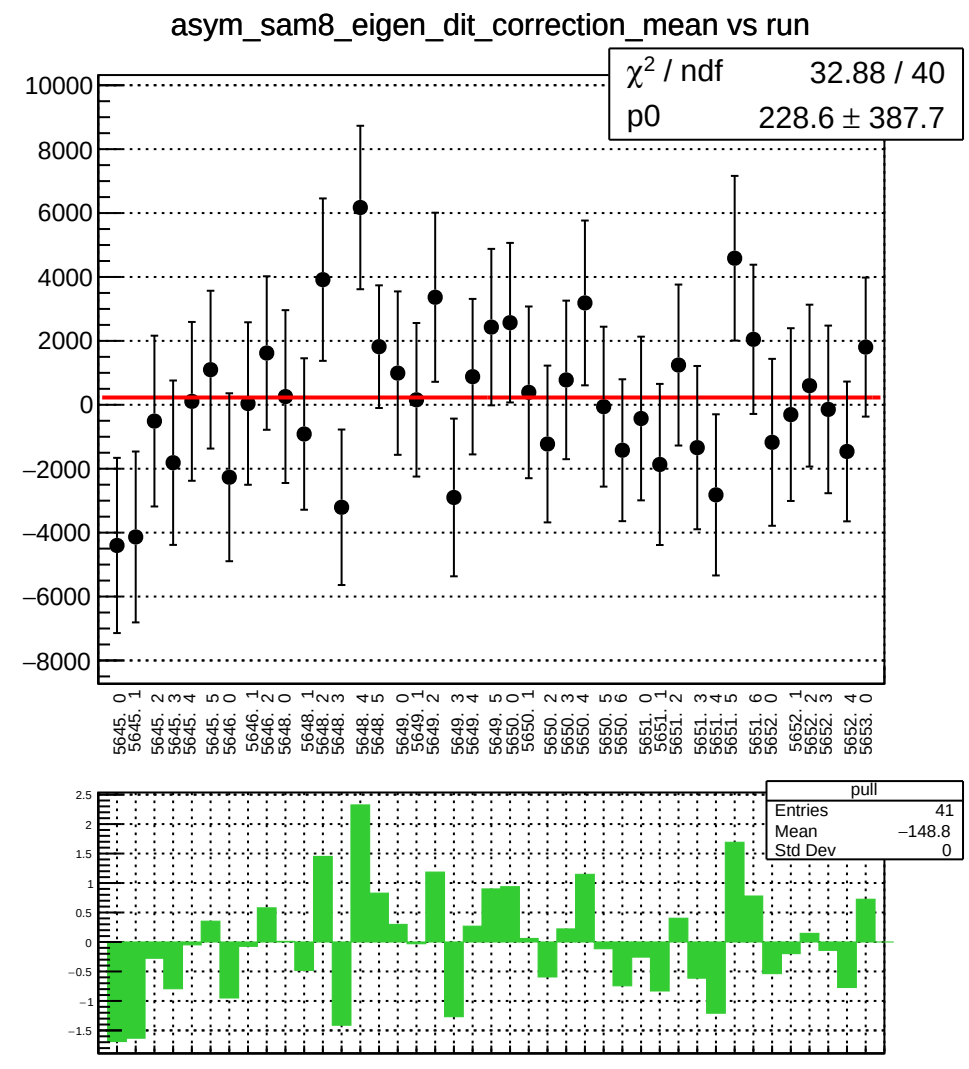

pull1D
Entries 41
Mean −0.008612
Std Dev 0.8955

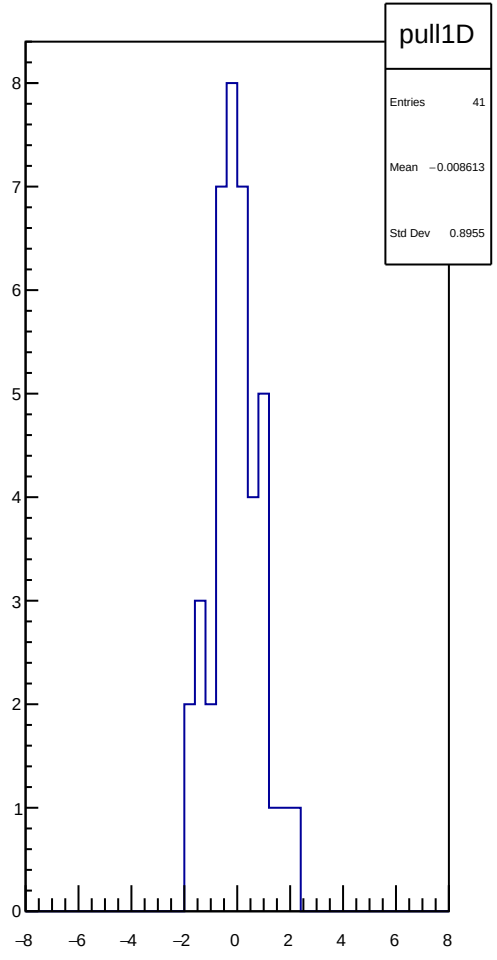

asym_sam8_dit_correction_rms vs run
χ² / ndf 1125 / 40
p0 243.5 ± 0.2741
270
260
250
240
230
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

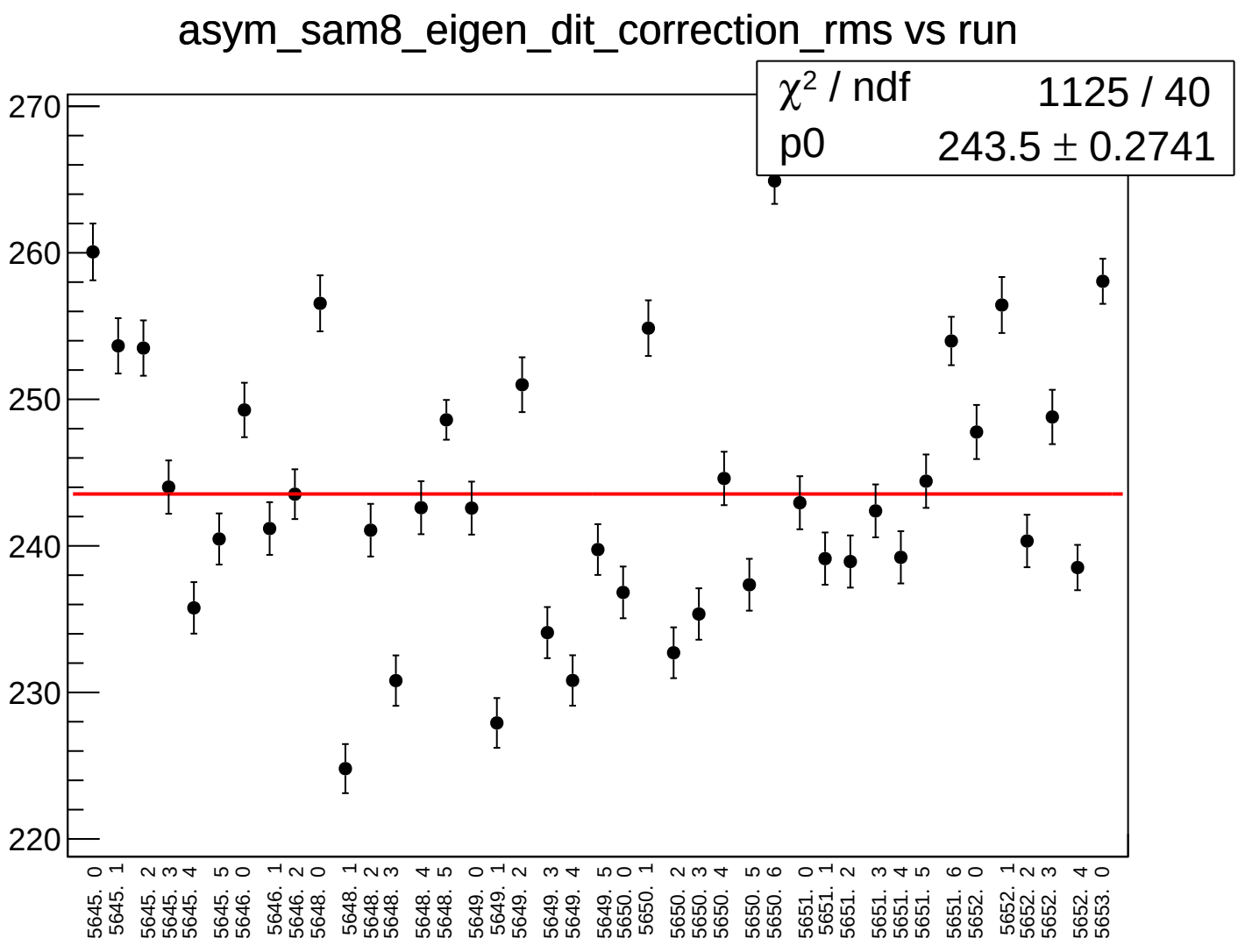

eigen_dit_asym_sam8_mean vs run
χ² / ndf 38.72 / 40
p0 −188.7 ± 141.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −78.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

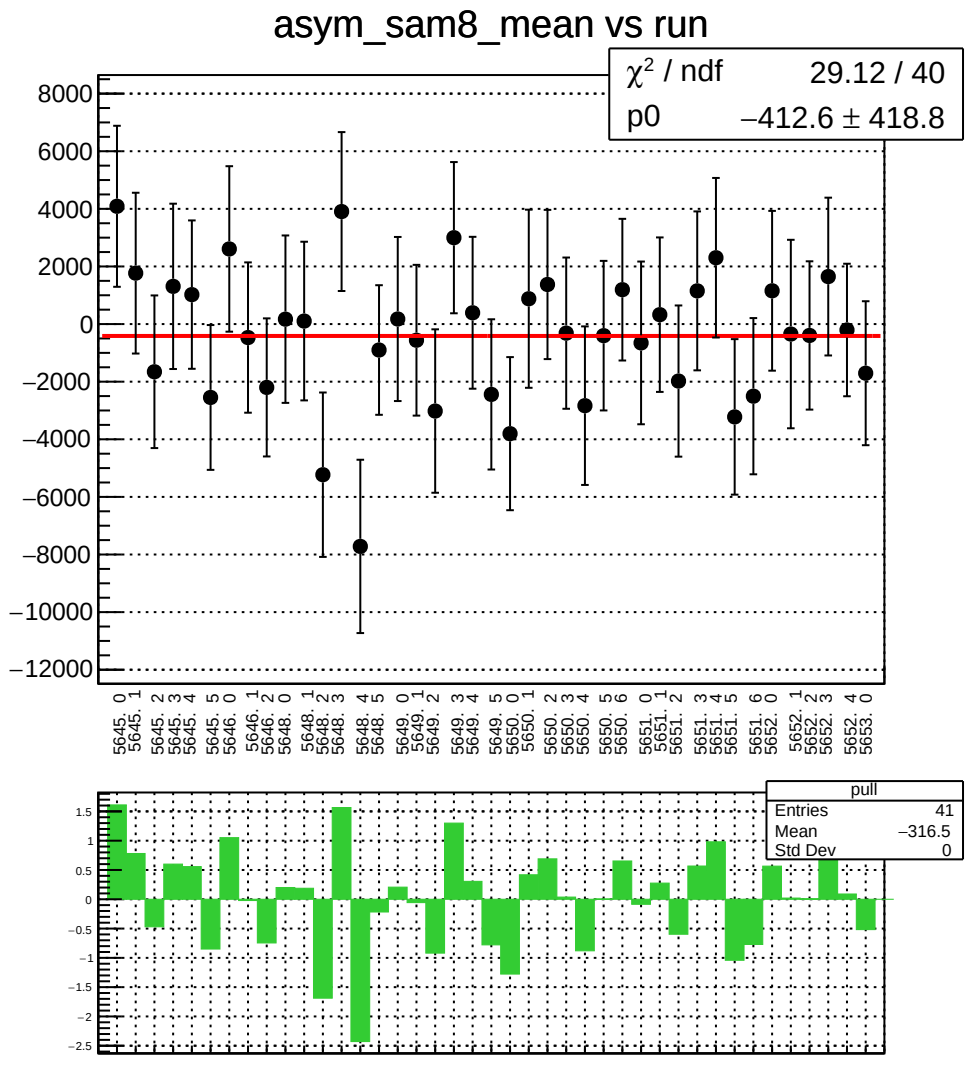

pull1D
Entries 41
Mean −0.01337
Std Dev 0.9717
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

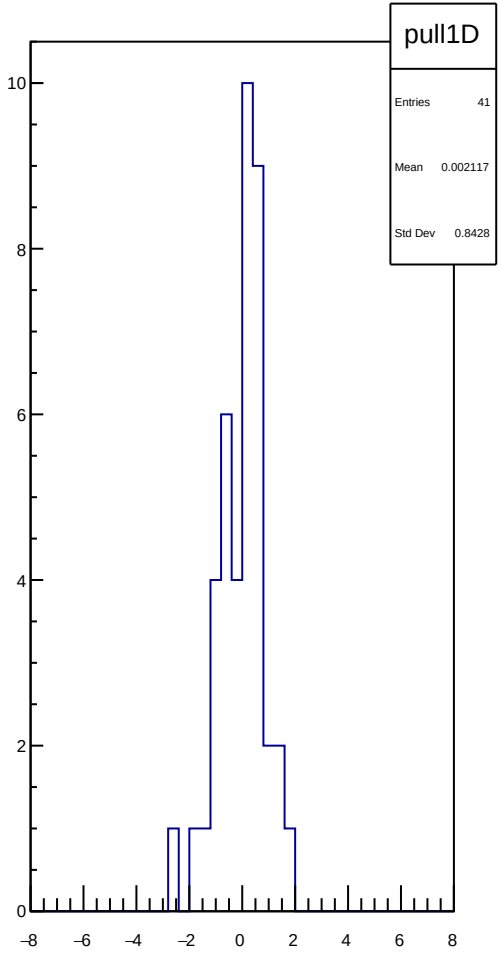

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2.786e+04 / 40
p0 87.19 ± 0.09986
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

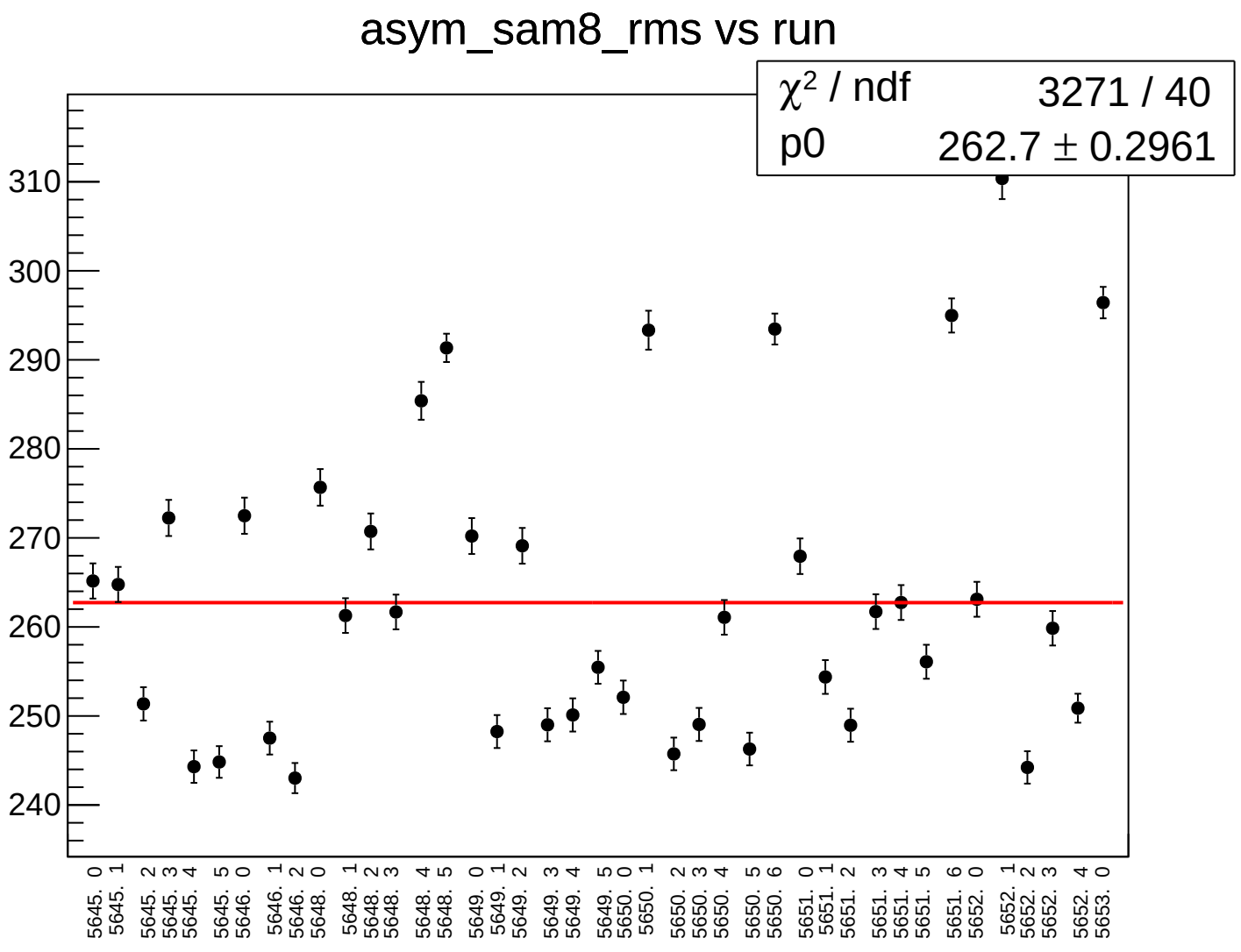

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 32.88 / 40
p0 228.6 ± 387.7
pull
Entries 41
Mean −148.8
Std Dev 0

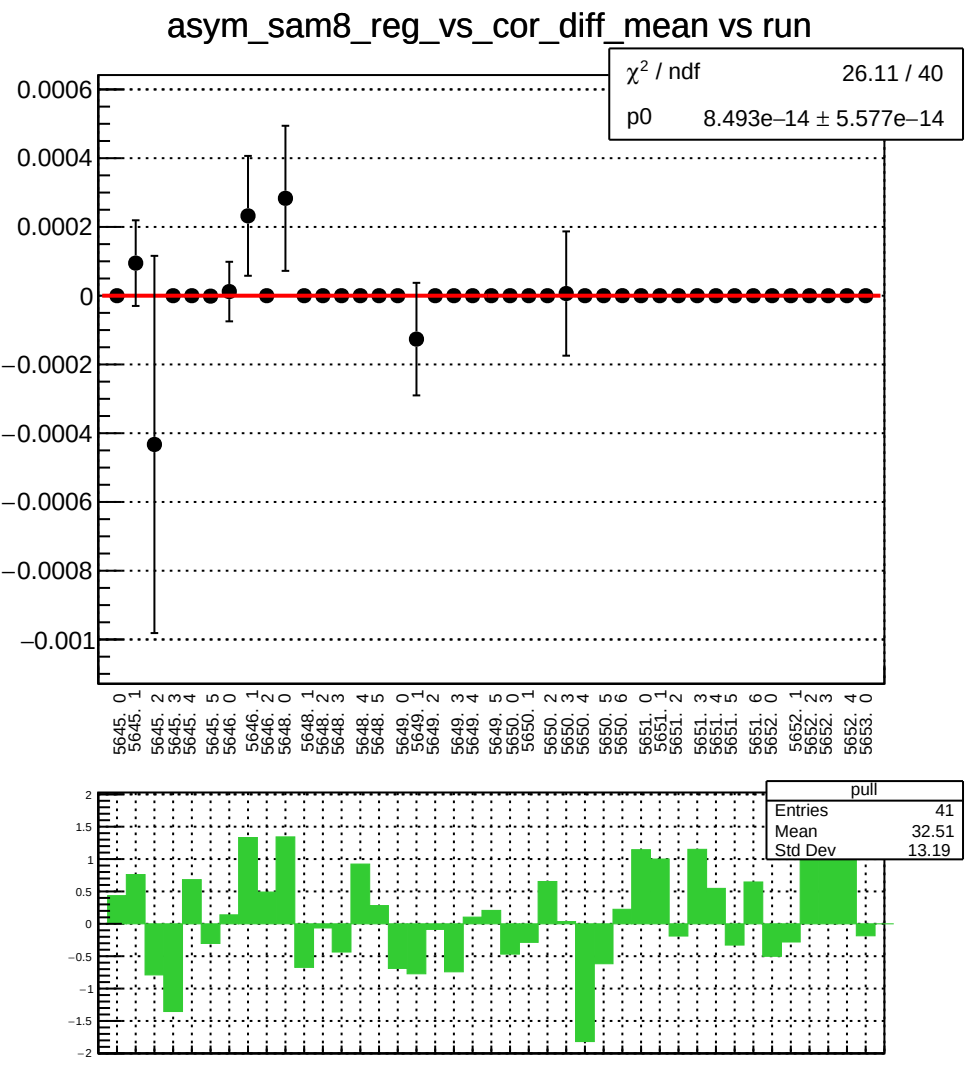

pull1D
Entries 41
Mean −0.008613
Std Dev 0.8955

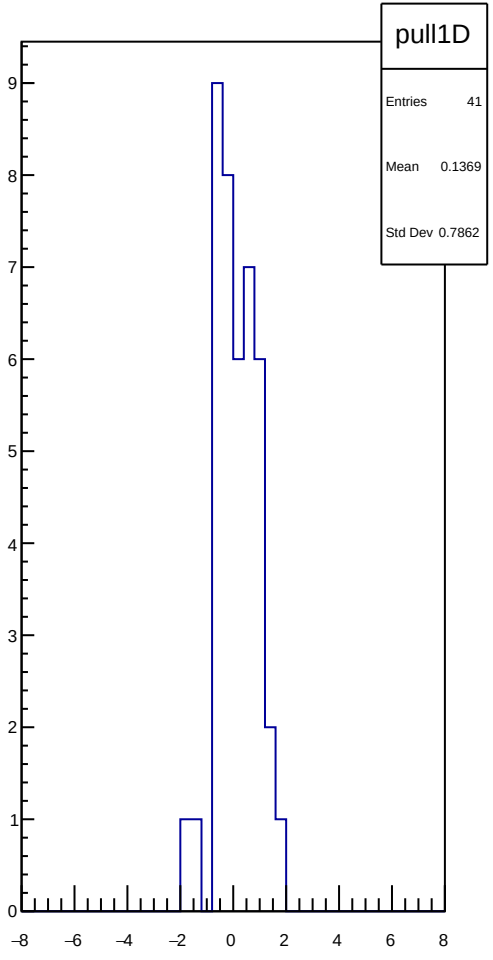

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1125 / 40
p0 243.5 ± 0.2741
270
260
250
240
230
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

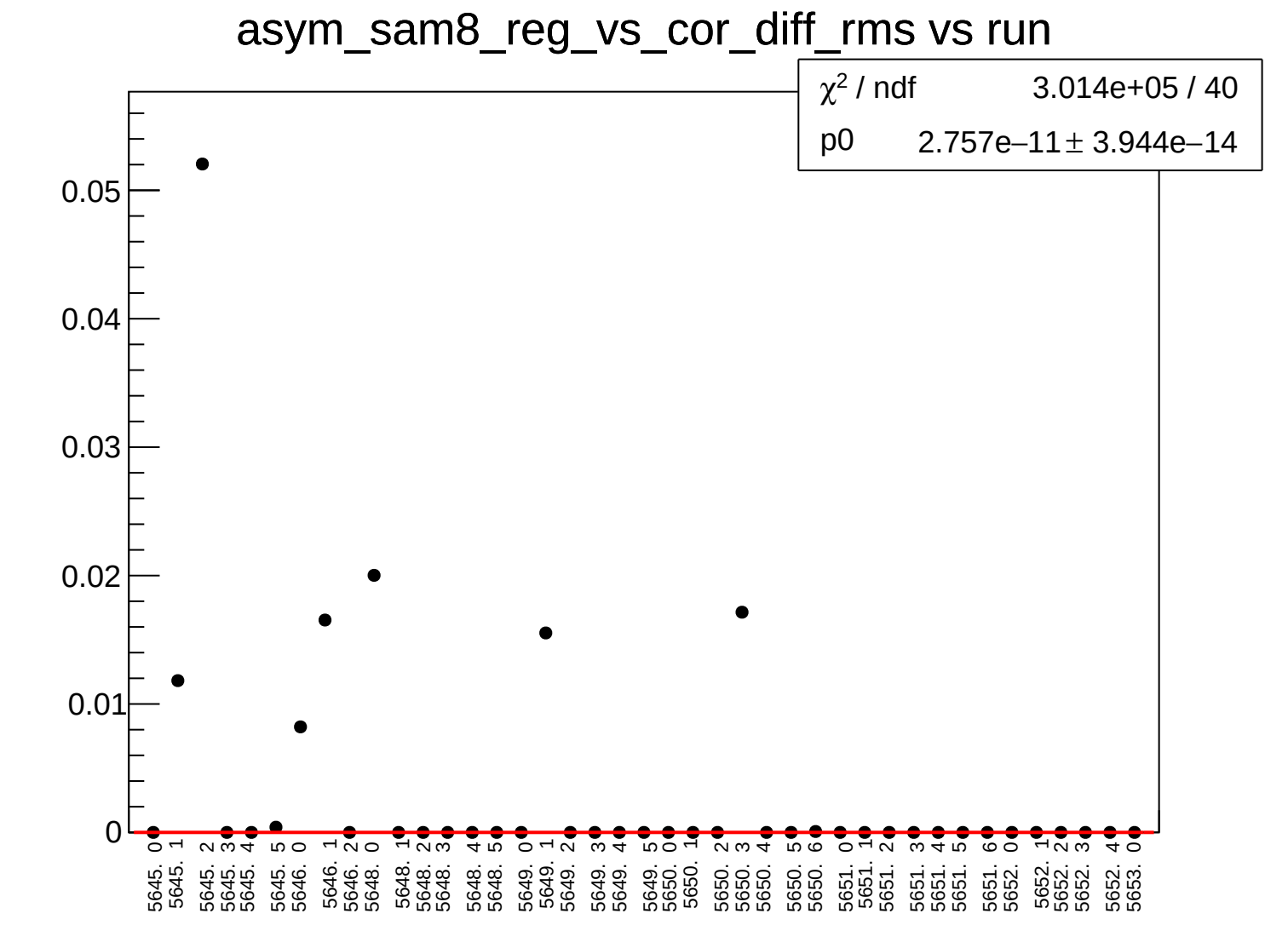

asym_sam8_mean vs run
χ² / ndf 29.12 / 40
p0 −412.6 ± 418.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −316.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

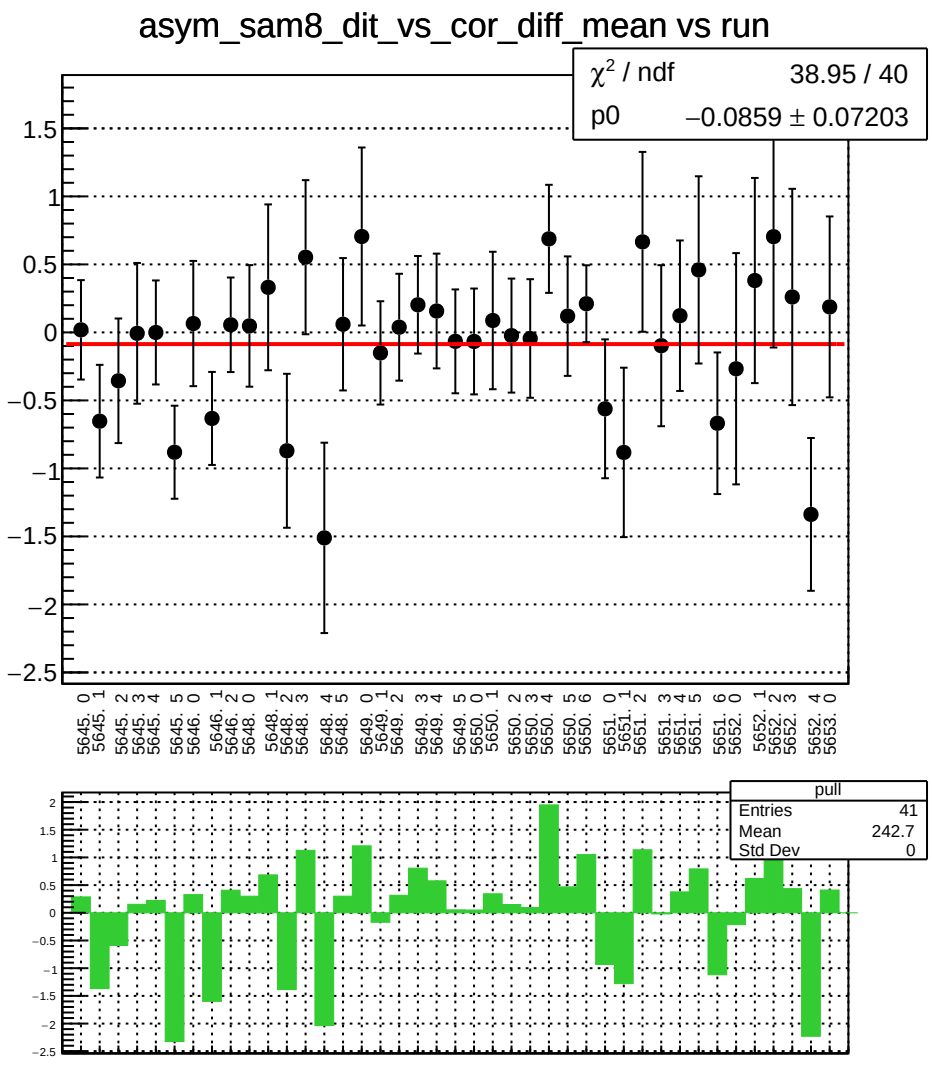

pull1D
Entries 41
Mean 0.002117
Std Dev 0.8428
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

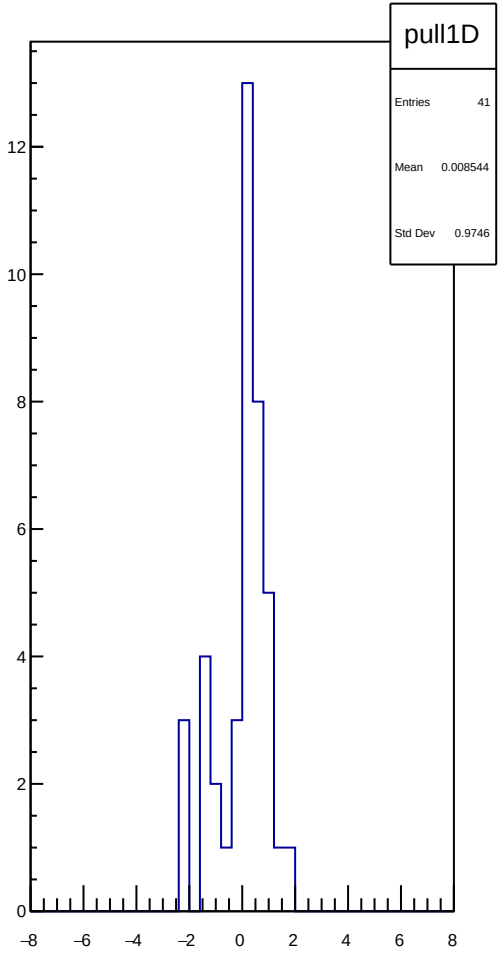

asym_sam8_rms vs run
χ² / ndf 3271 / 40
p0 262.7 ± 0.2961
310
300
290
280
270
260
250
240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

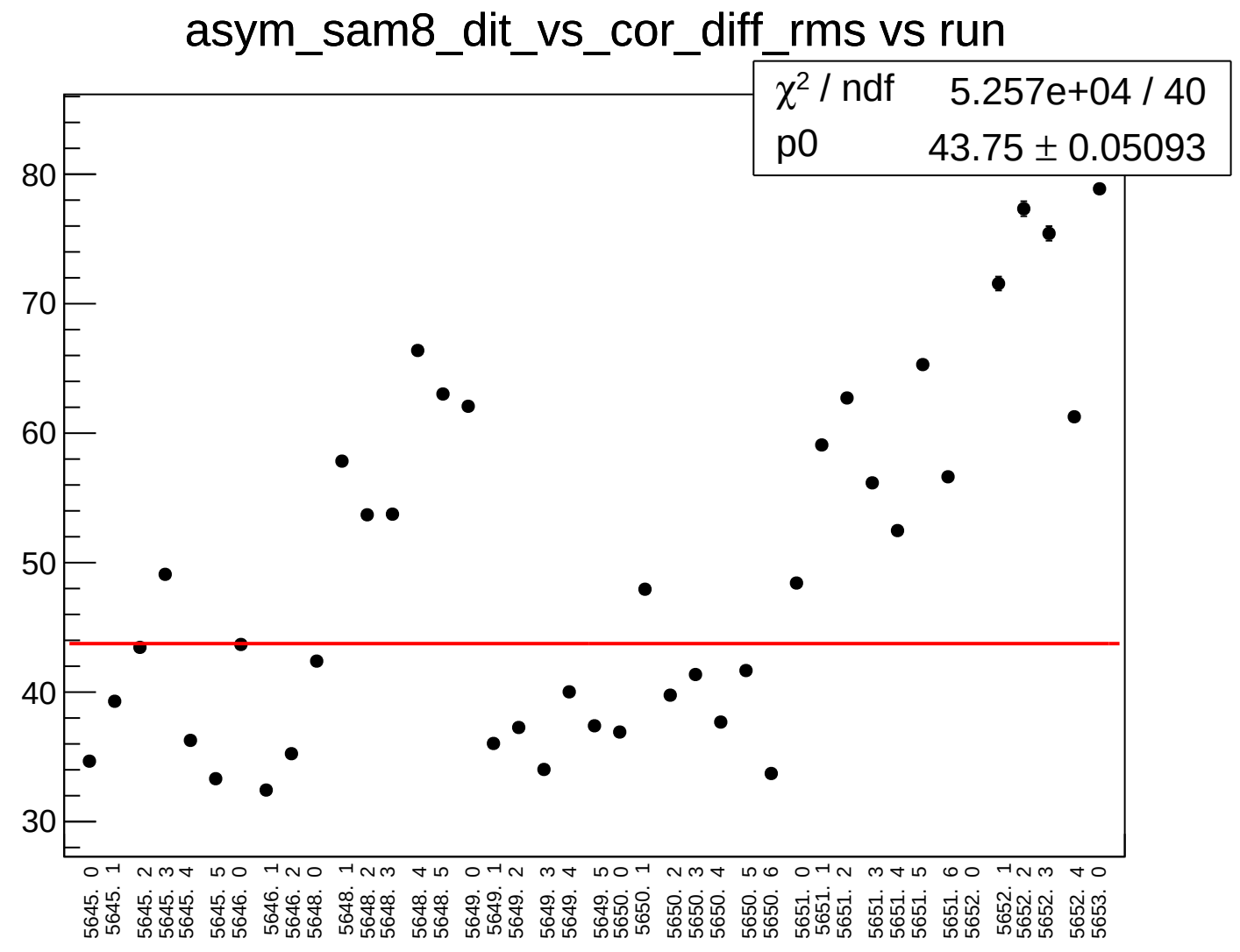

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 26.11 / 40
p0 8.493e−14 ± 5.577e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.51
Std Dev 13.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

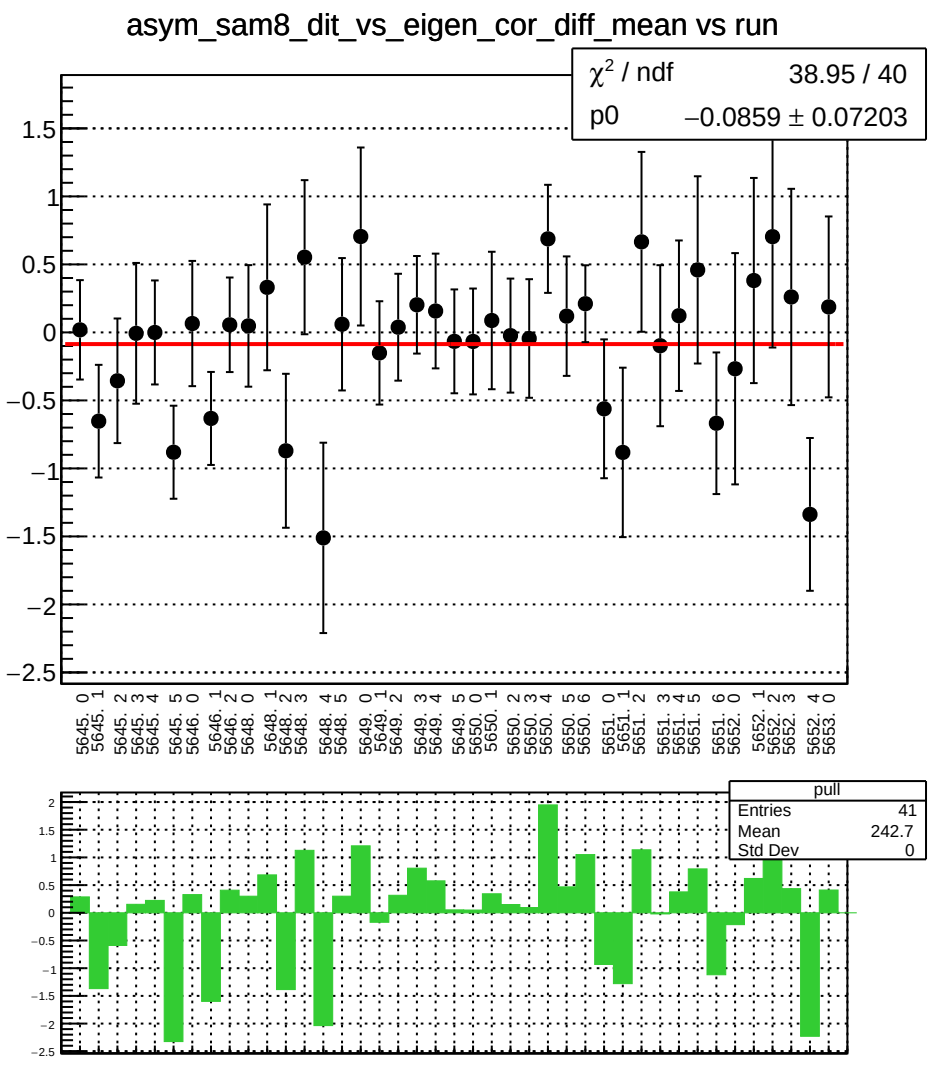

pull1D
Entries 41
Mean 0.1369
Std Dev 0.7862
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

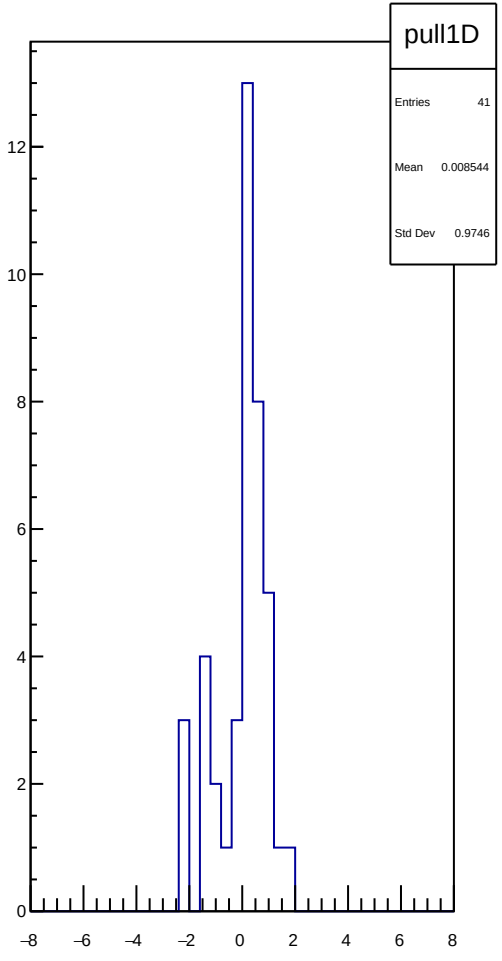

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 3.014e+05 / 40
p0 2.757e−11 ± 3.944e−14
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

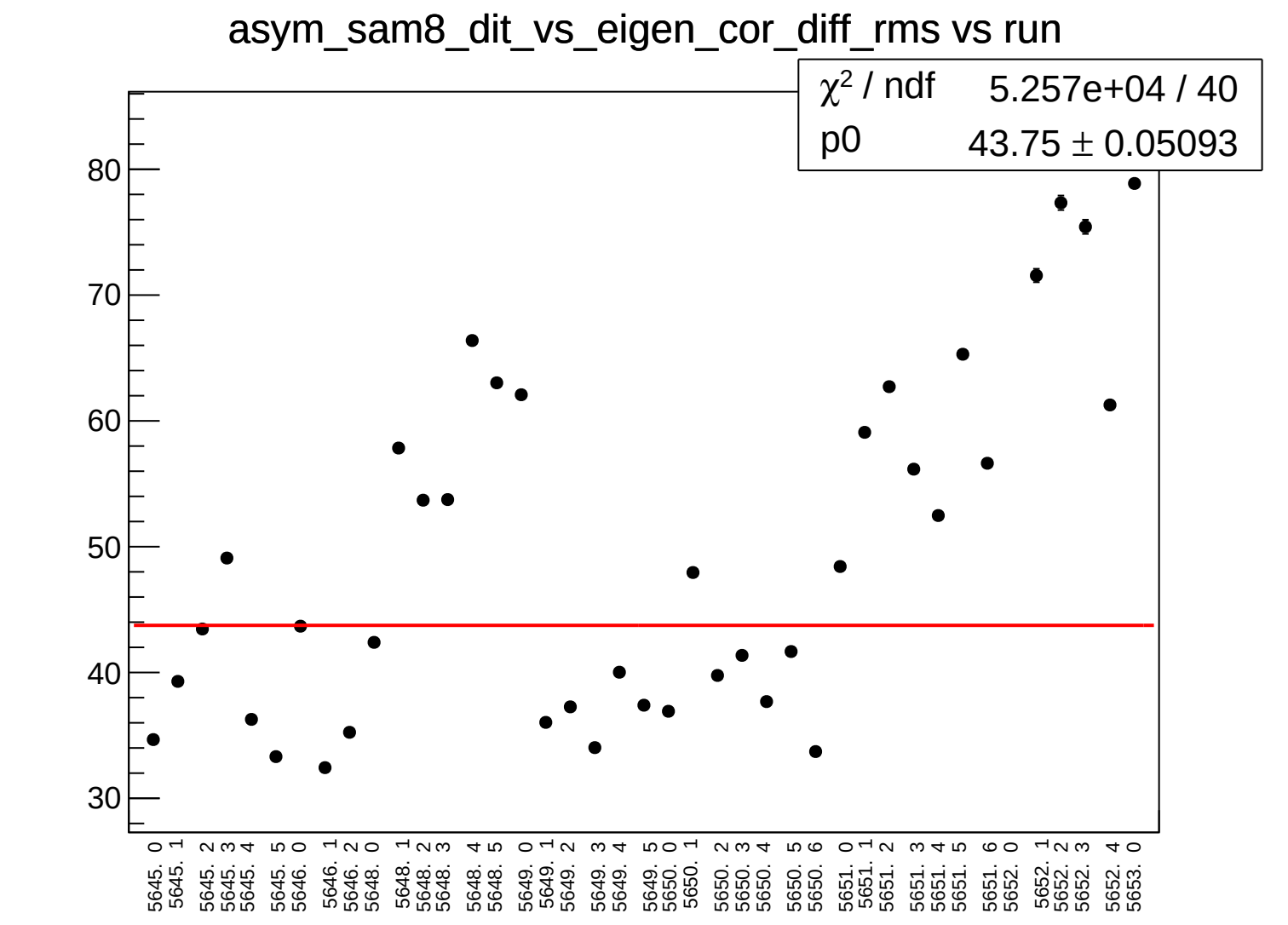

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 38.95 / 40
p0 −0.0859 ± 0.07203
pull
Entries 41
Mean 242.7
Std Dev 0

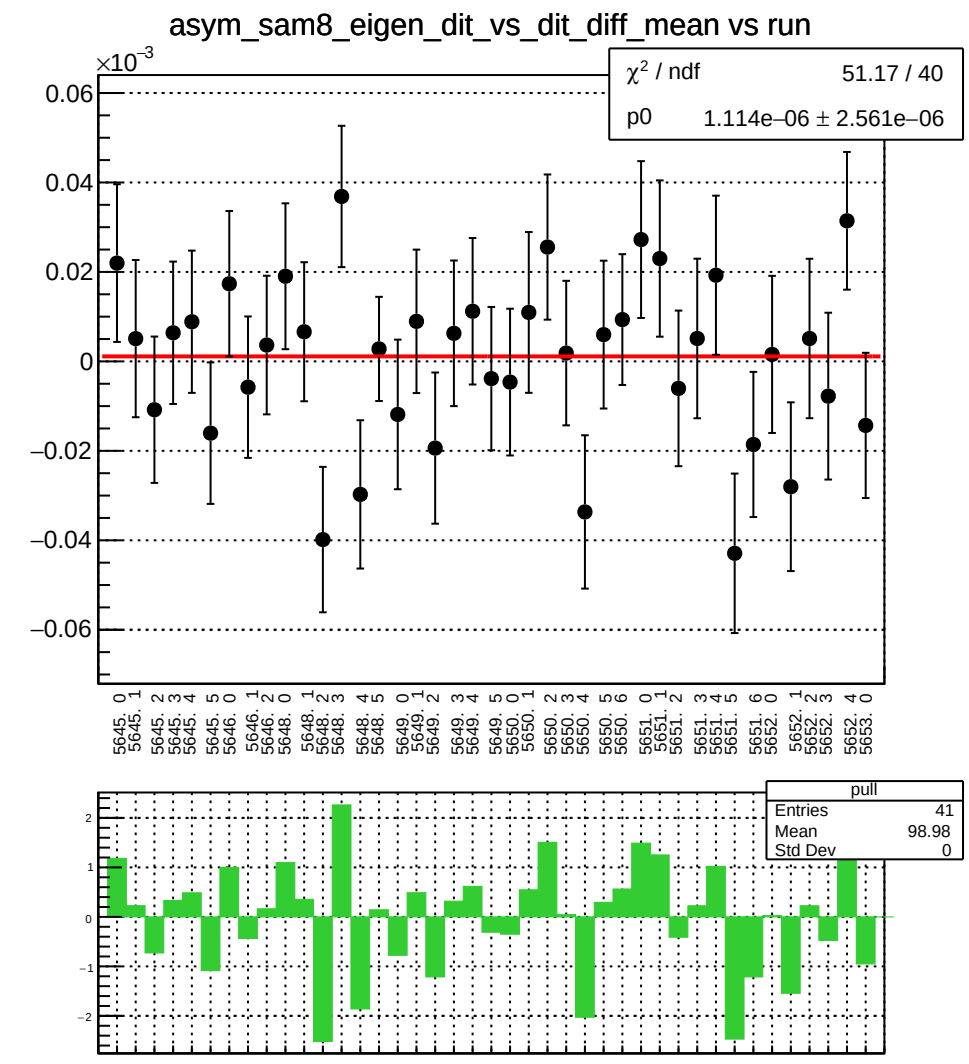

pull1D
Entries 41
Mean 0.008544
Std Dev 0.9746

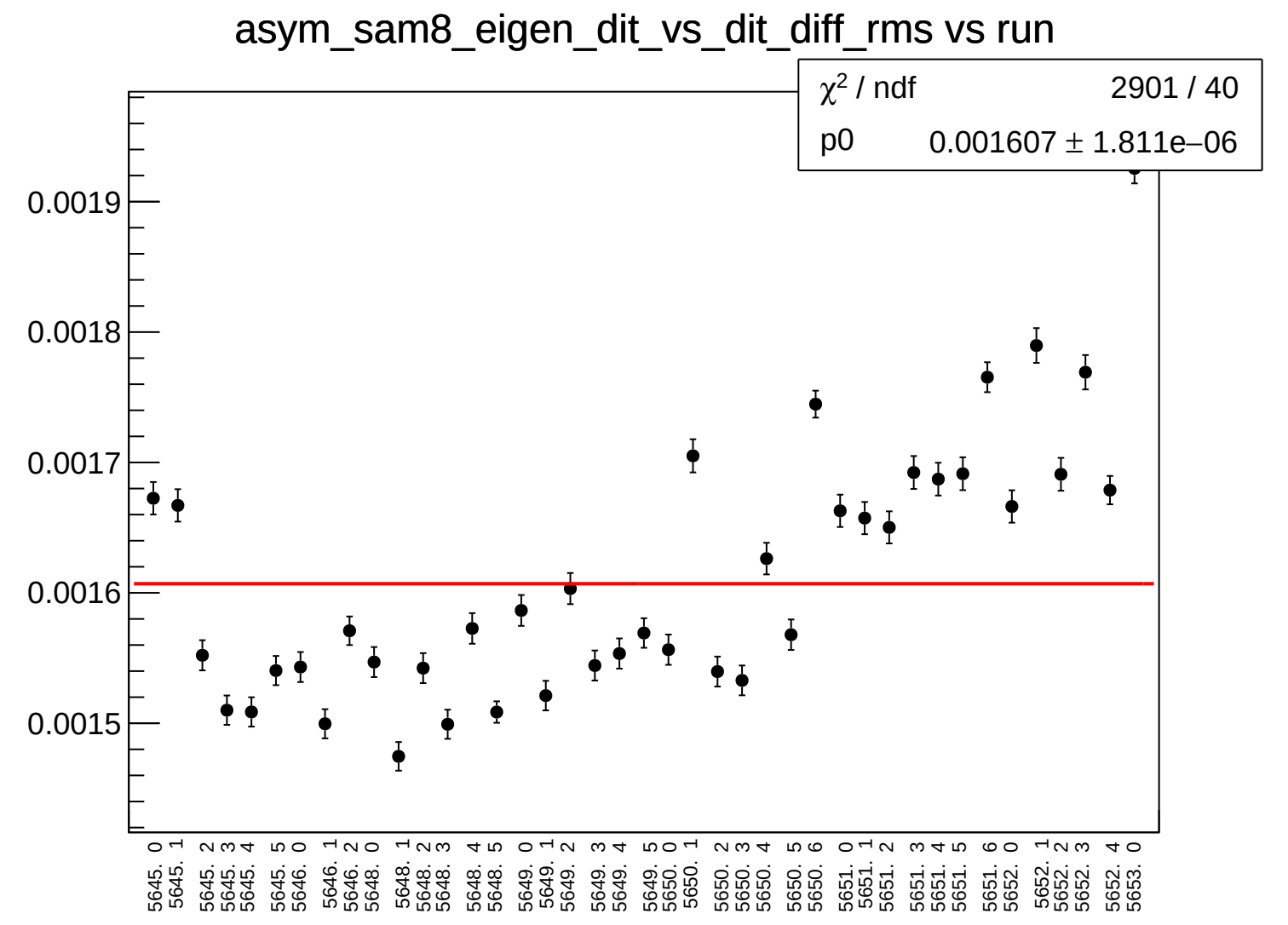

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 5.257e+04 / 40
p0 43.75 ± 0.05093
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

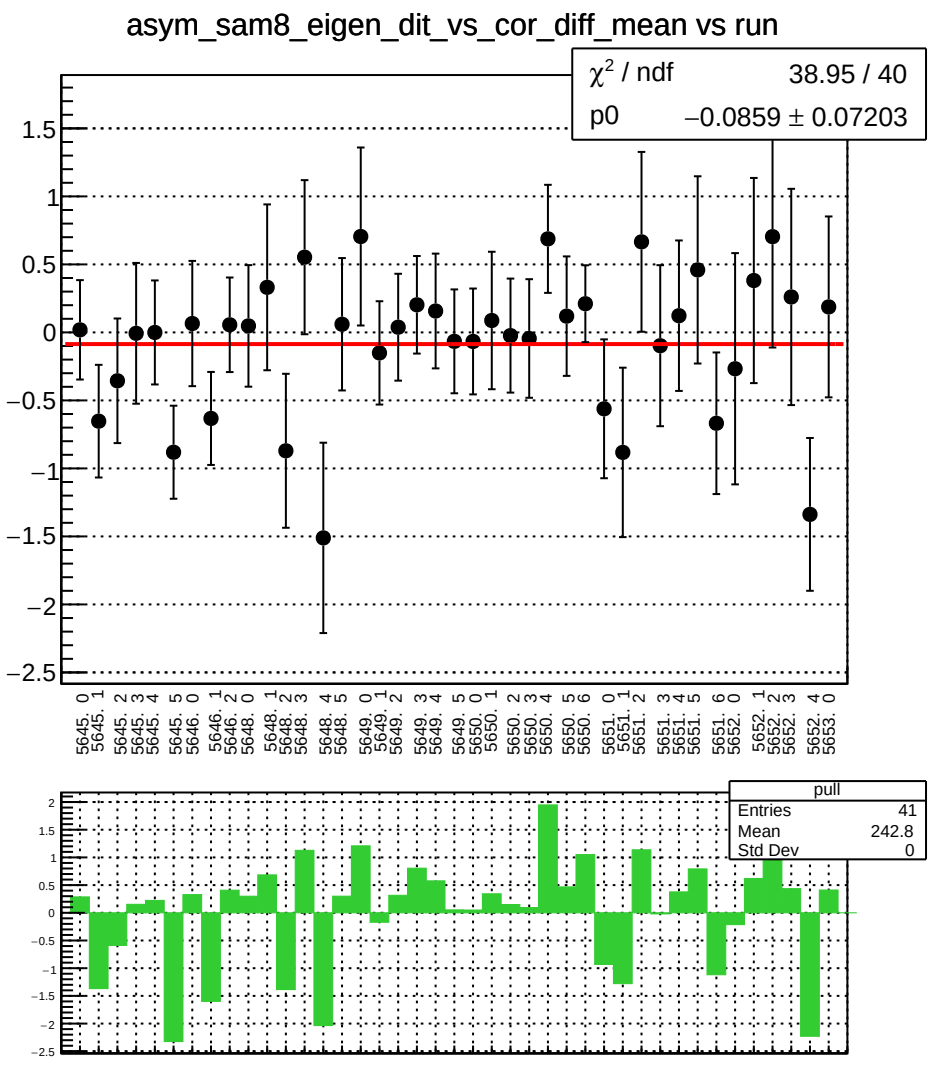

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.95 / 40
p0 −0.0859 ± 0.07203
pull
Entries 41
Mean 242.7
Std Dev 0

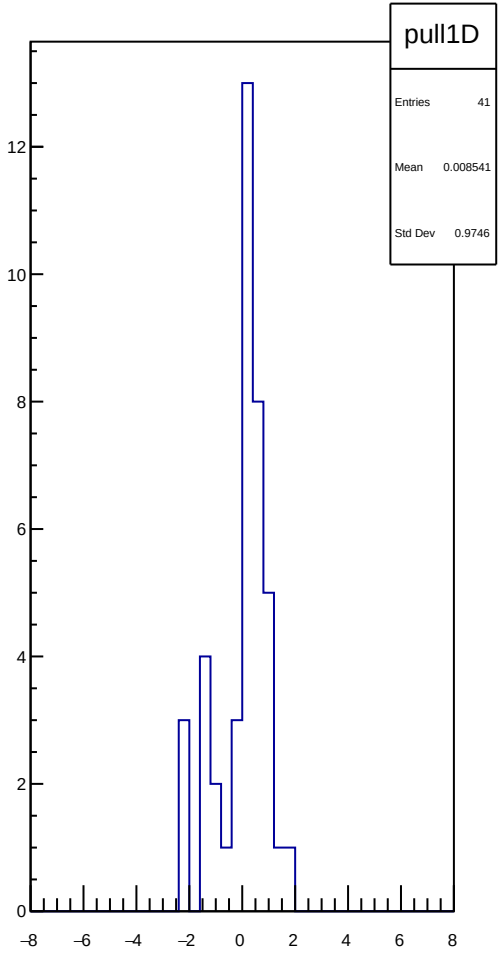

pull1D
Entries 41
Mean 0.008544
Std Dev 0.9746

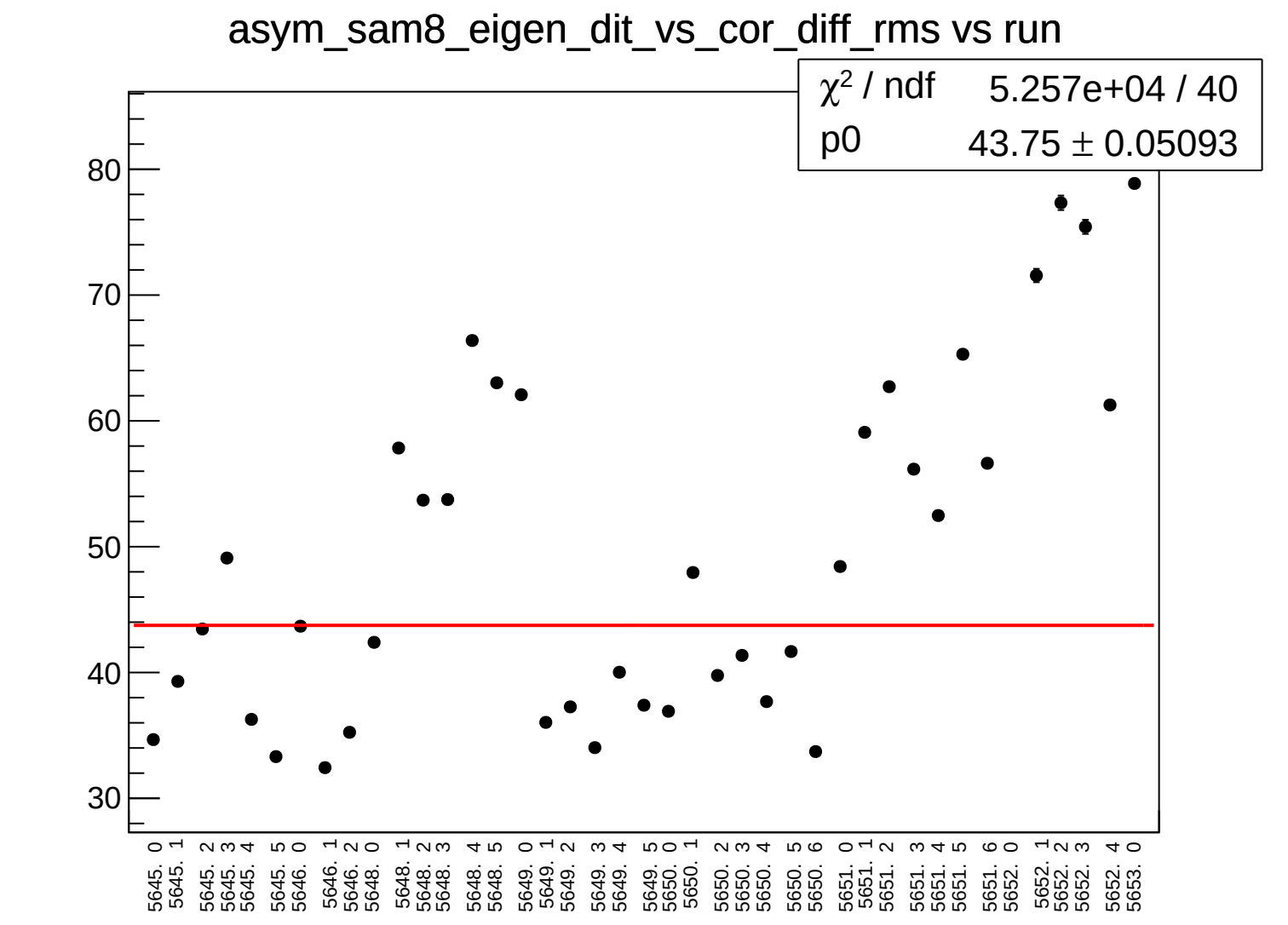

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.257e+04 / 40
p0 43.75 ± 0.05093
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

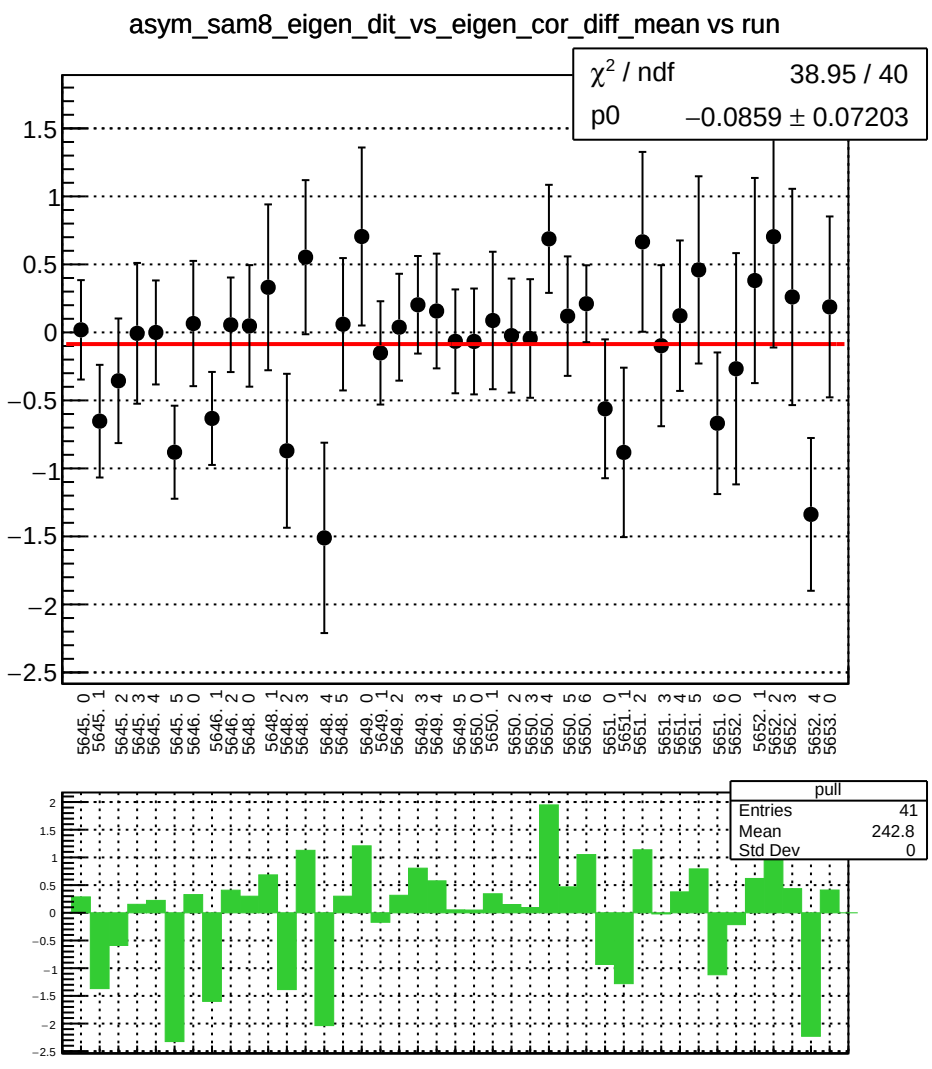

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 51.17 / 40
p0 1.114e−06 ± 2.561e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 98.98
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.013
Std Dev 1.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

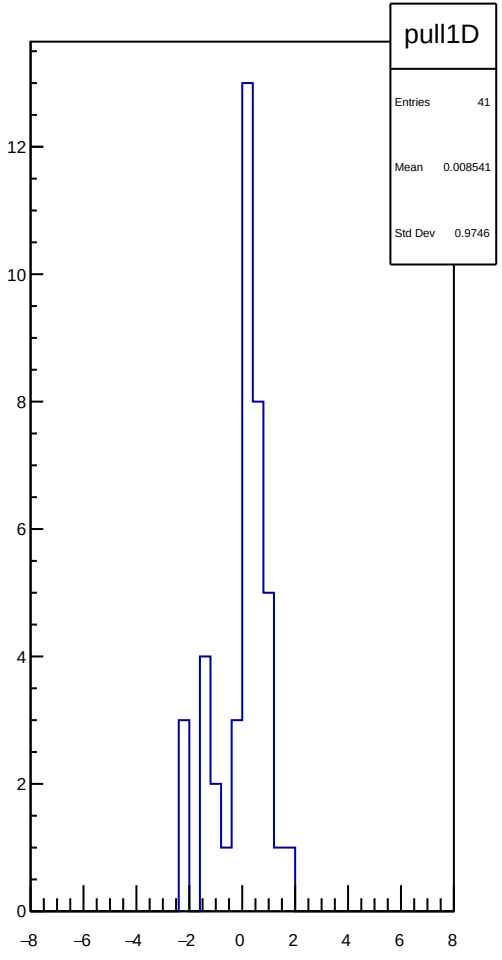

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2901 / 40
p0 0.001607 ± 1.811e−06
0.0019
0.0018
0.0017
0.0016
0.0015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

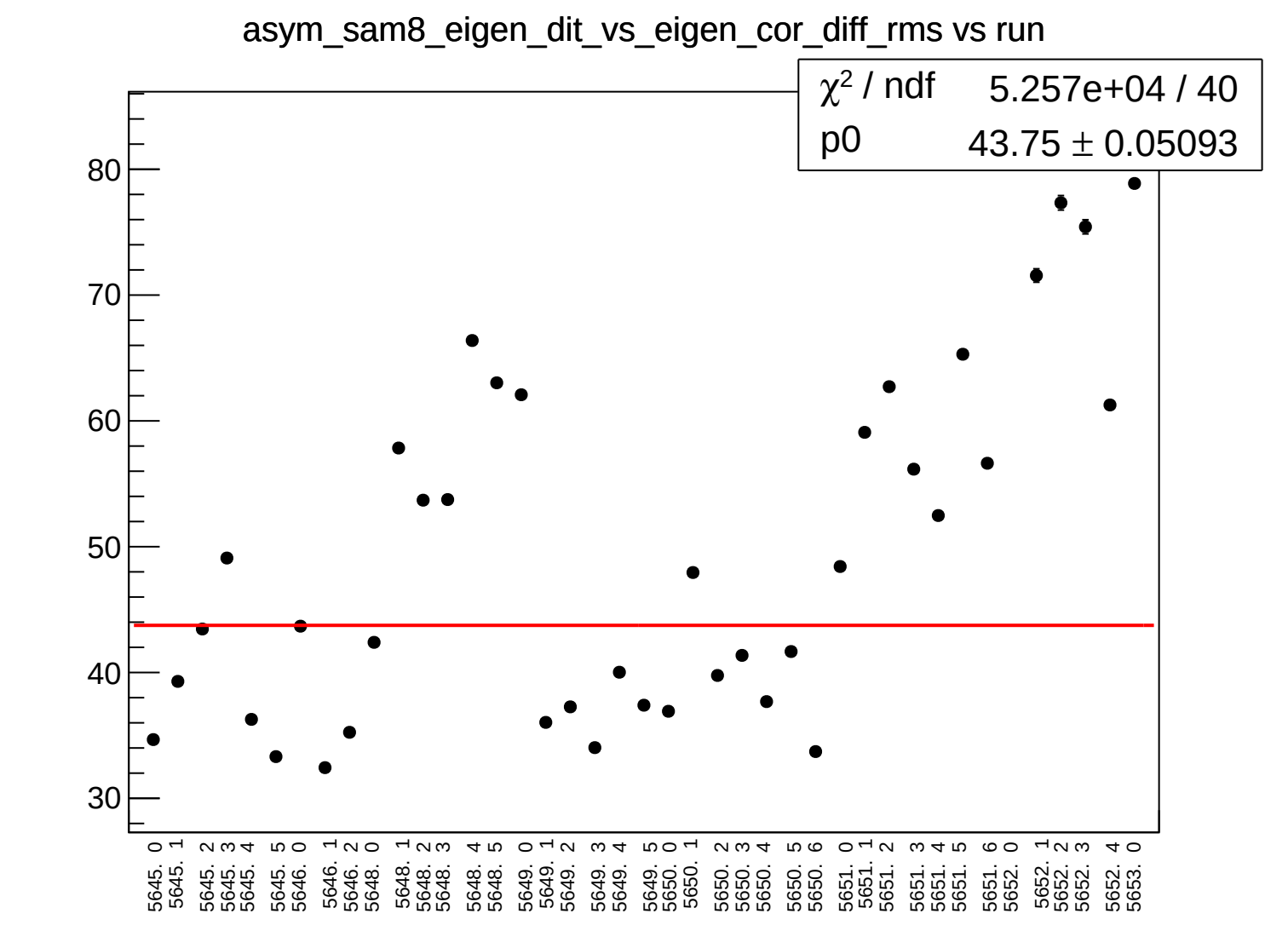

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.95 / 40
p0 −0.0859 ± 0.07203
pull
Entries 41
Mean 242.8
Std Dev 0

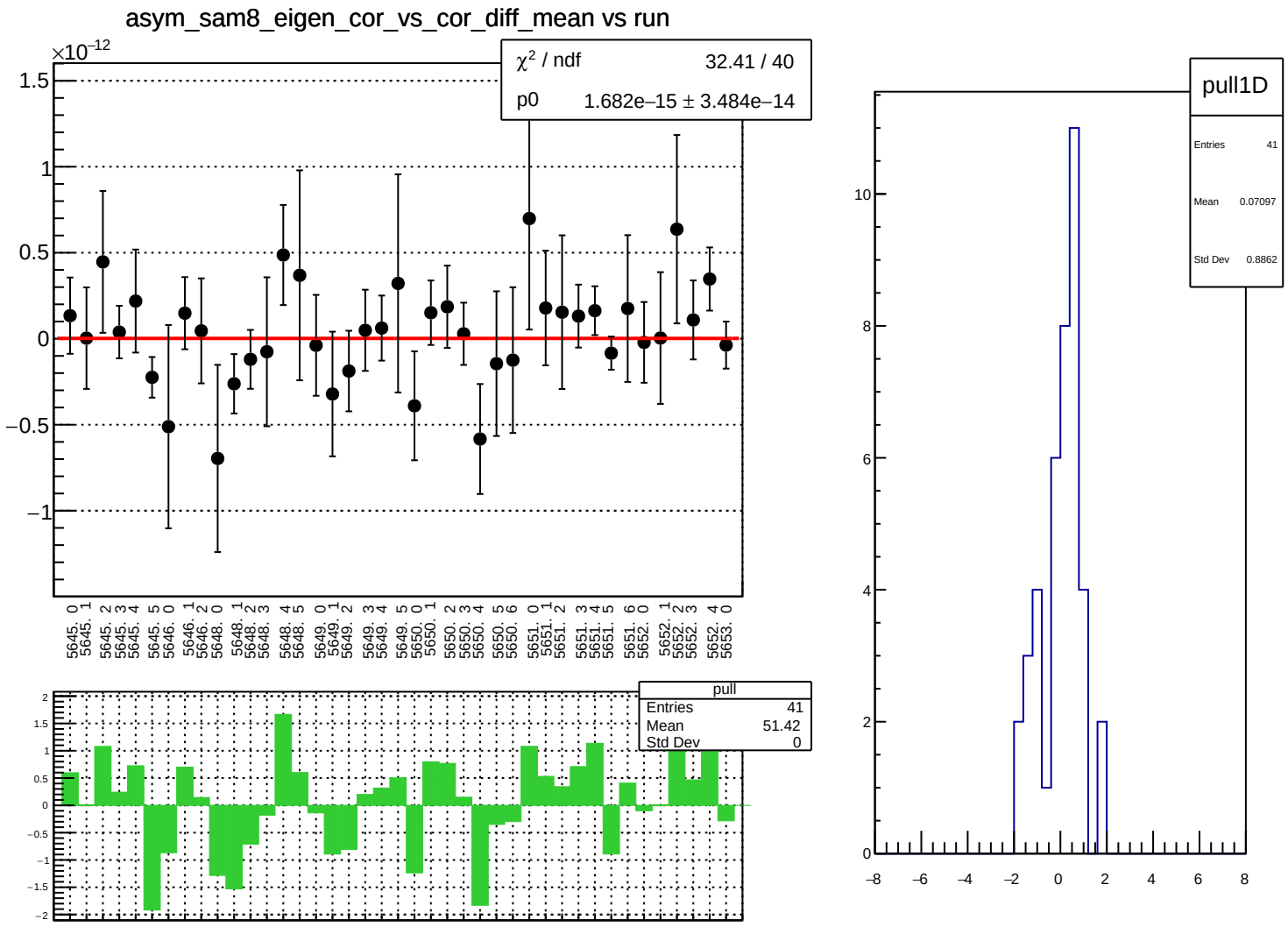

pull1D
Entries 41
Mean 0.008541
Std Dev 0.9746

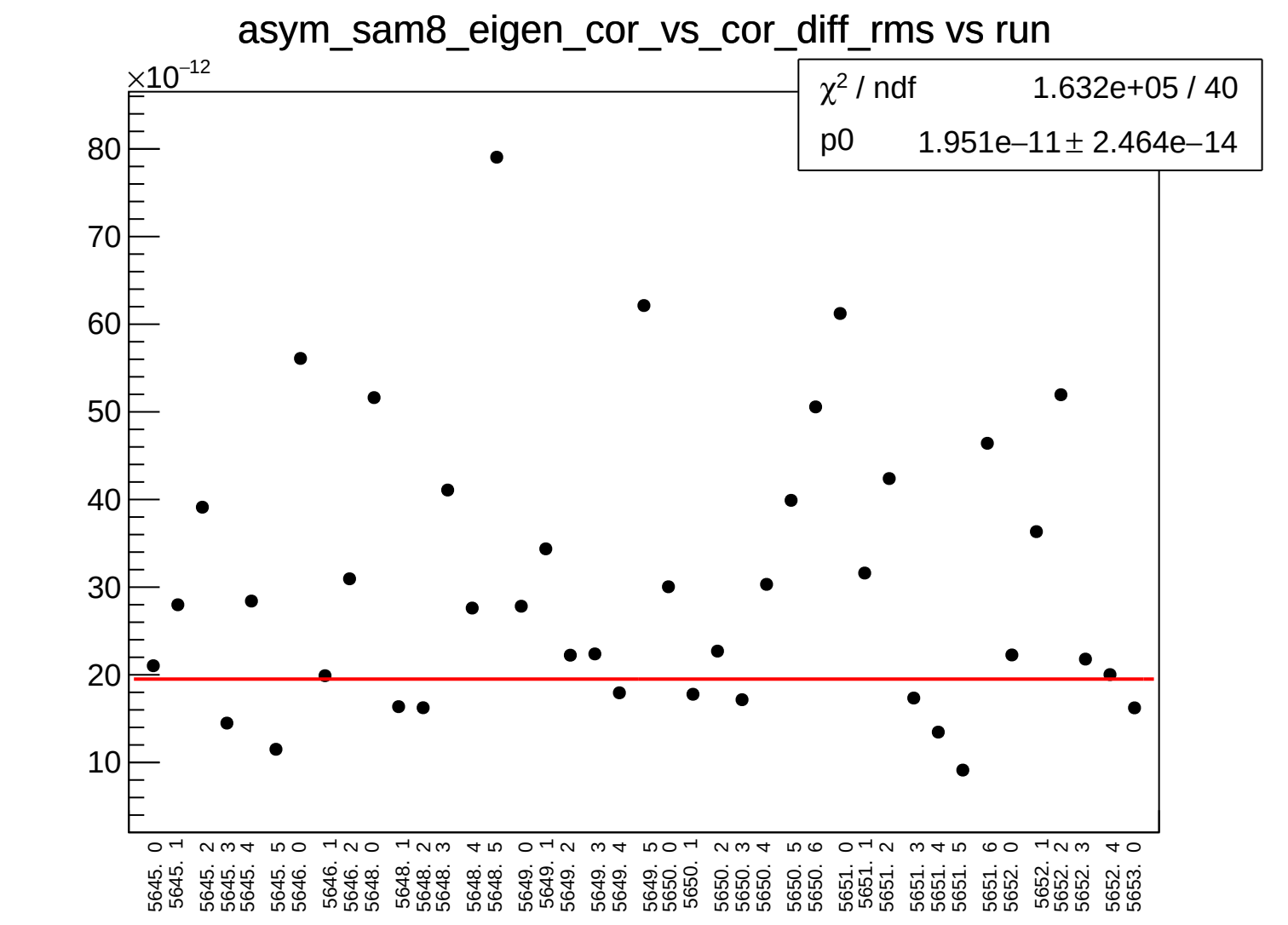

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.257e+04 / 40
p0 43.75 ± 0.05093
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

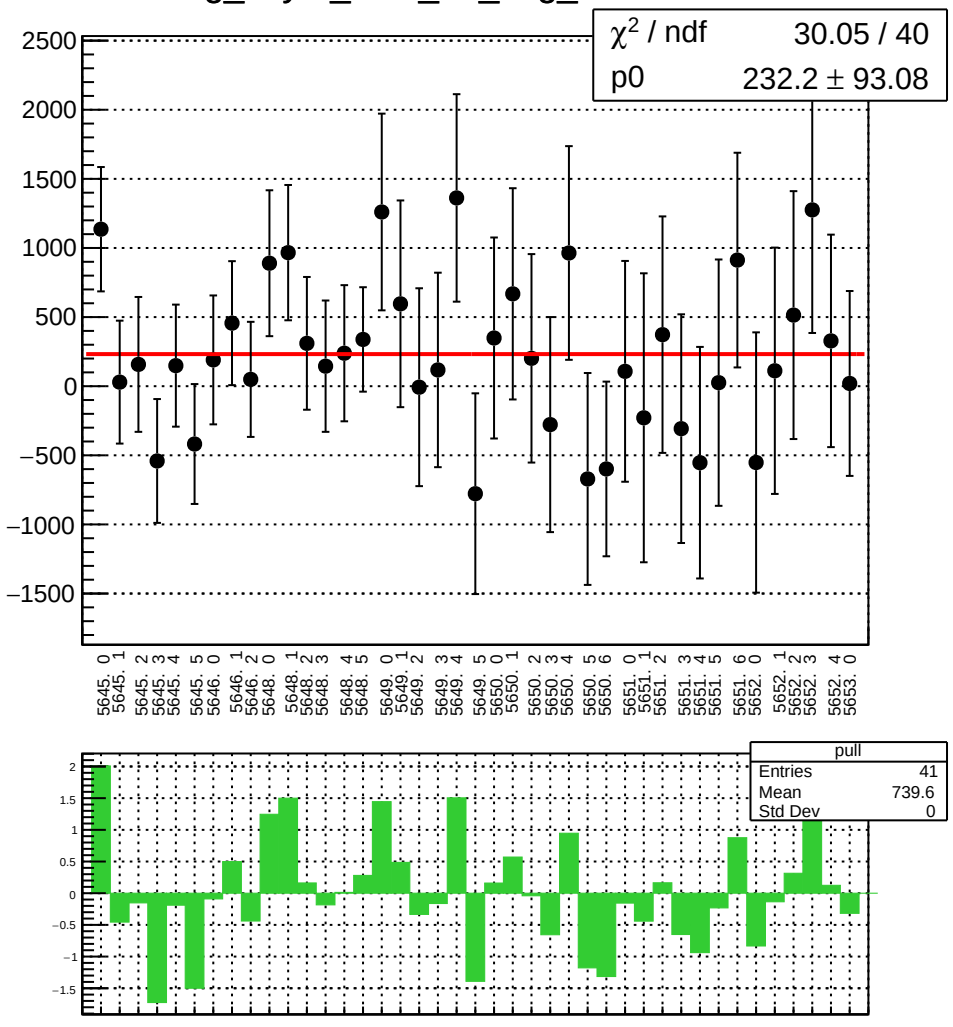

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.95 / 40
p0 −0.0859 ± 0.07203
pull
Entries 41
Mean 242.8
Std Dev 0

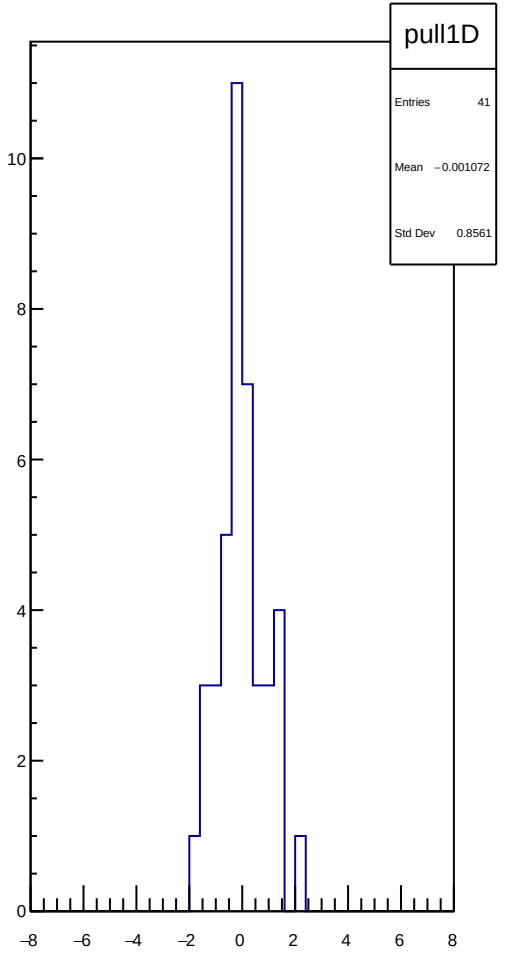

pull1D
Entries 41
Mean 0.008541
Std Dev 0.9746

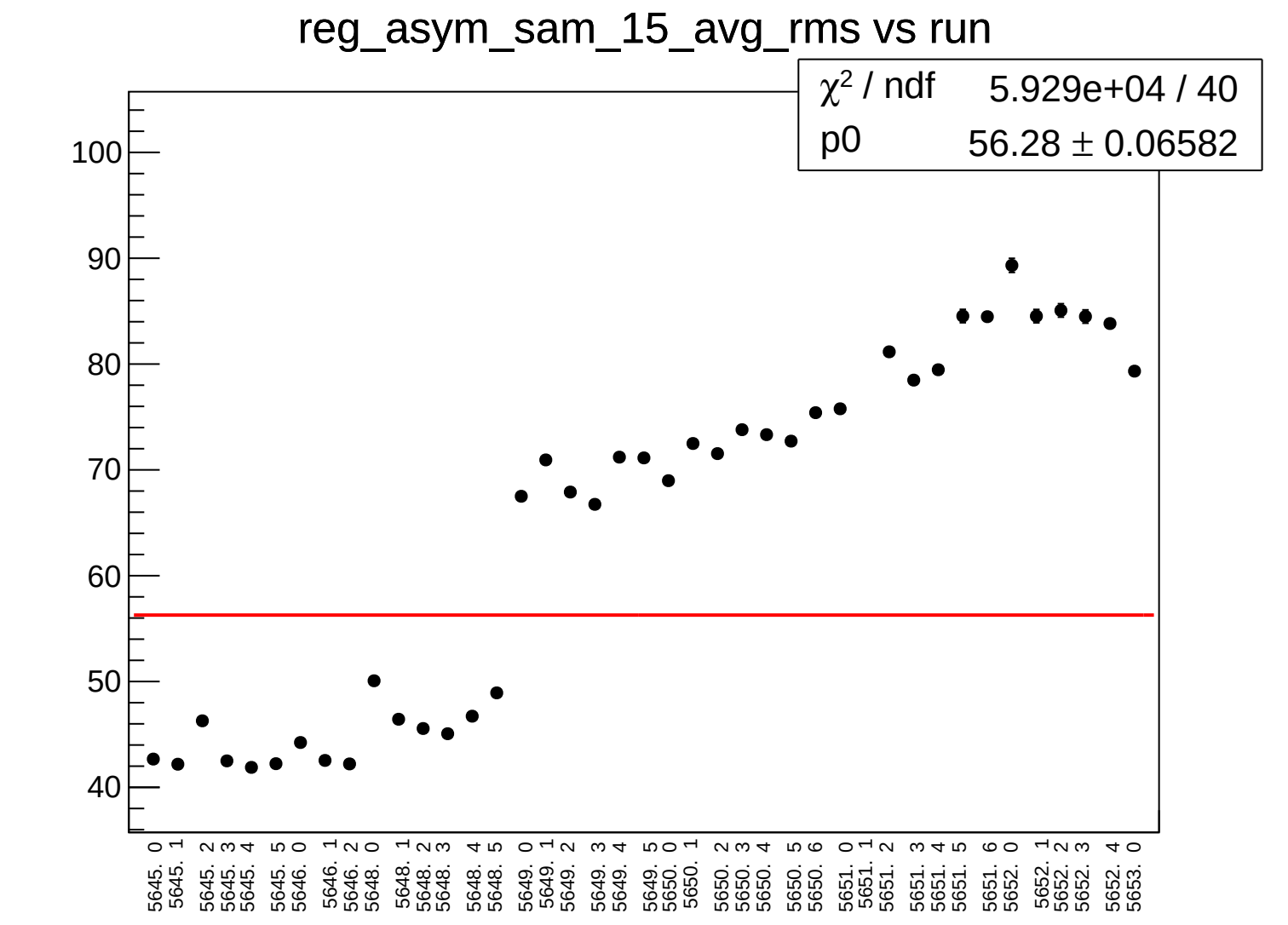

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.257e+04 / 40
p0 43.75 ± 0.05093
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

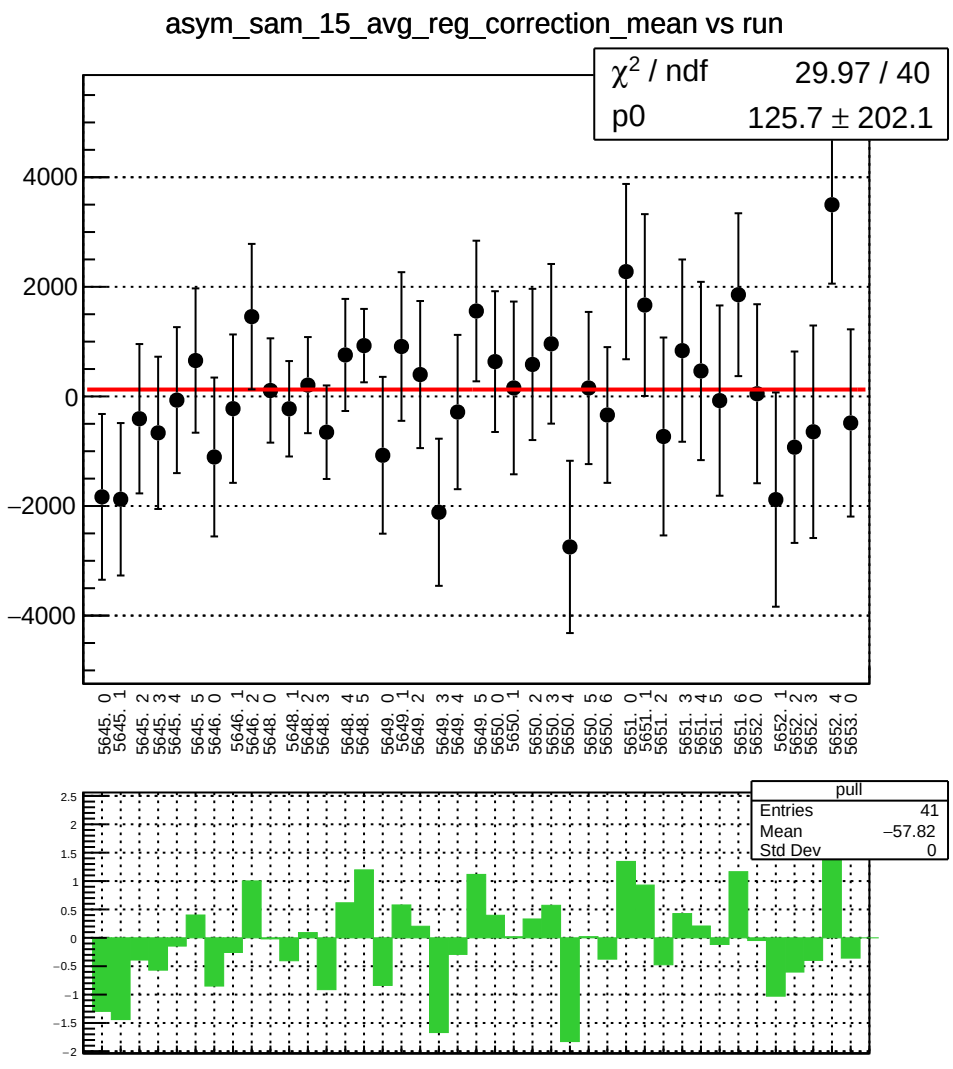

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.41 / 40
p0 1.682e−15 ± 3.484e−14
pull
Entries 41
Mean 51.42
Std Dev 0
pull1D
Entries 41
Mean 0.07097
Std Dev 0.8862

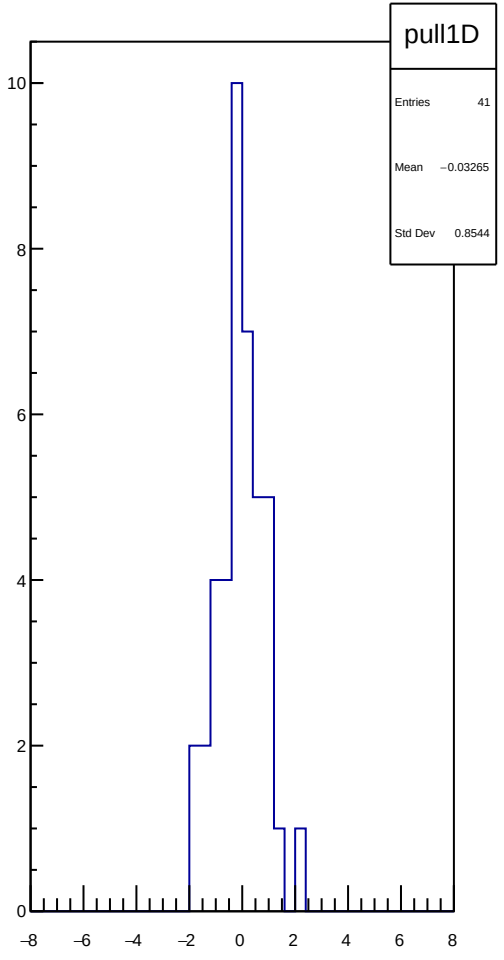

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.632e+05 / 40
p0 1.951e−11 ± 2.464e−14
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

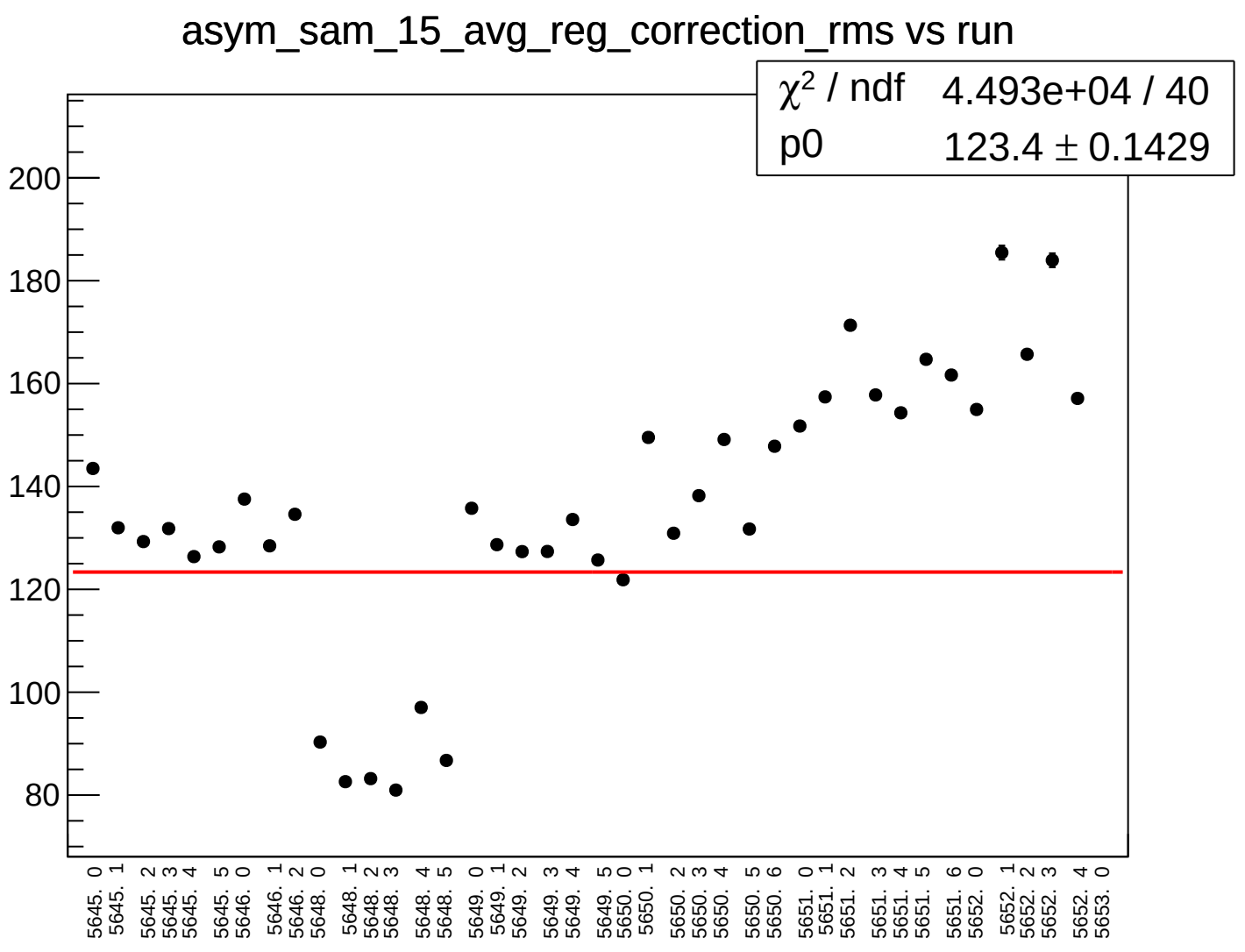

reg_asym_sam_15_avg_mean vs run
χ² / ndf 30.05 / 40
p0 232.2 ± 93.08
pull
Entries 41
Mean 739.6
Std Dev 0

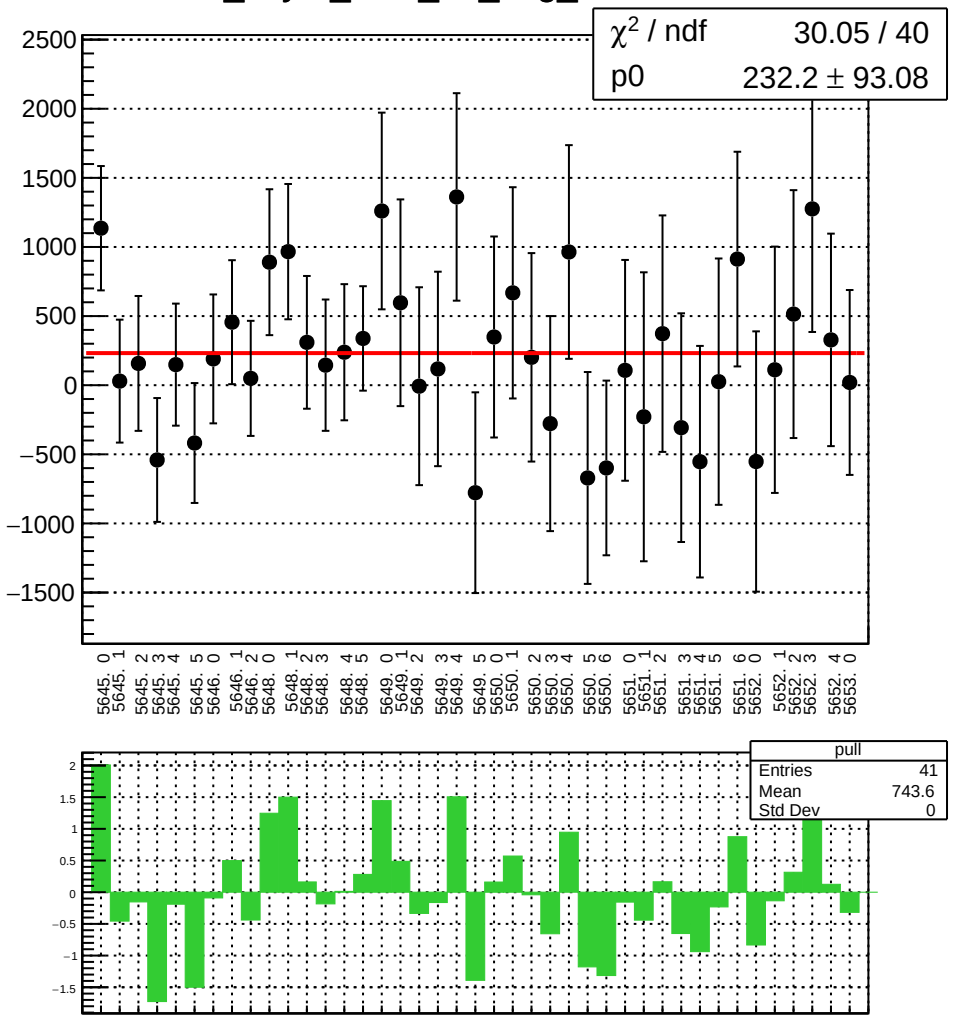

pull1D
Entries 41
Mean −0.001072
Std Dev 0.8561

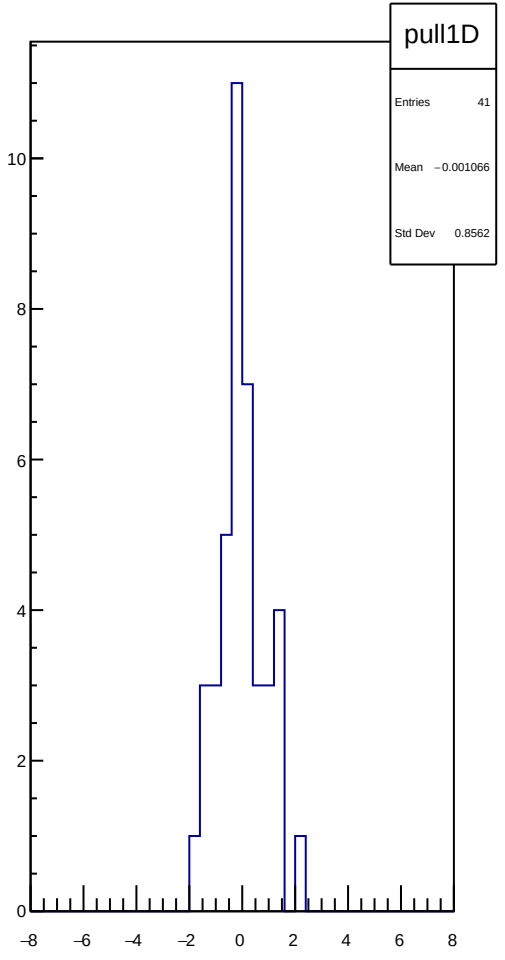

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 5.929e+04 / 40
p0 56.28 ± 0.06582
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

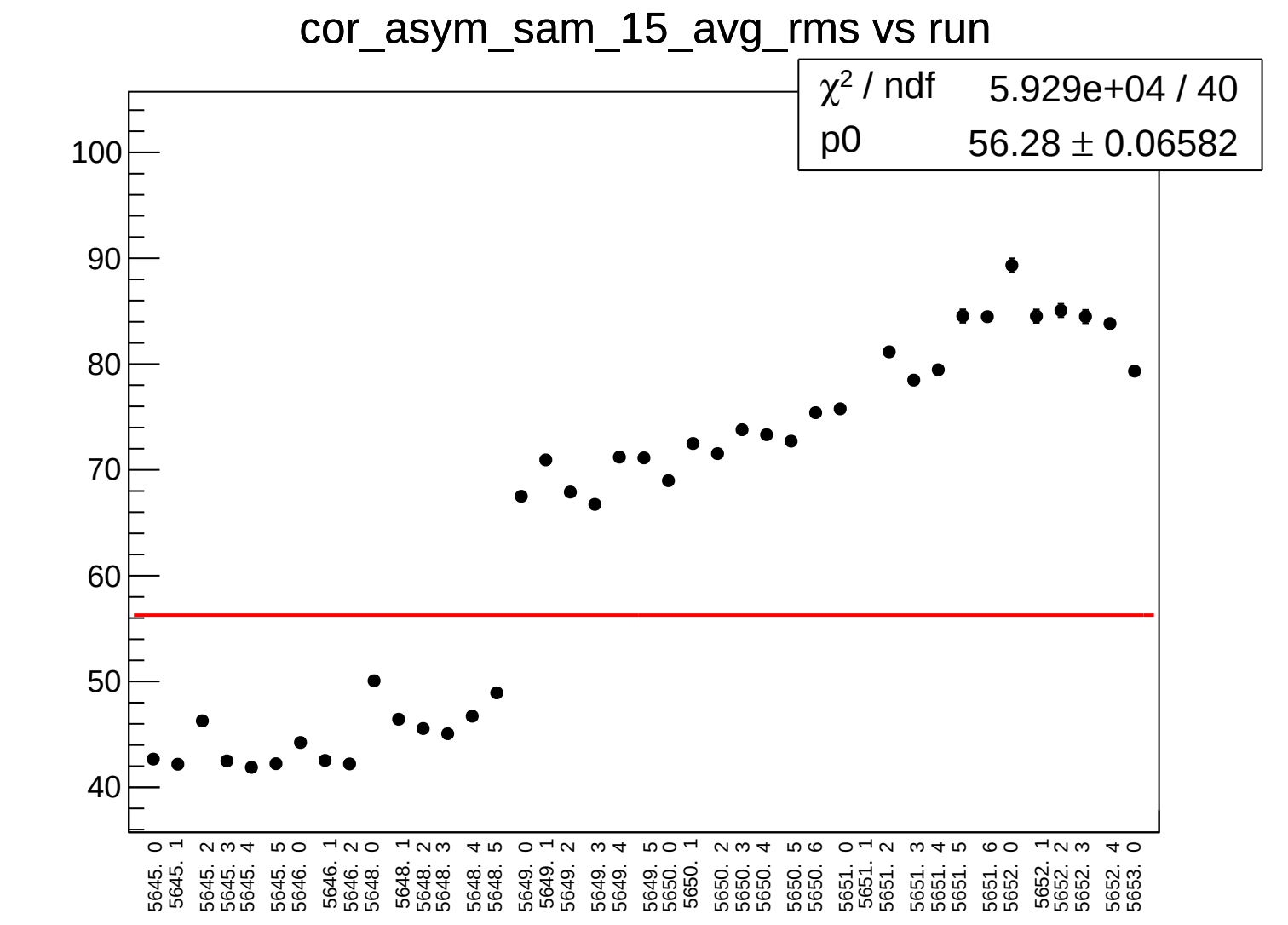

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 29.97 / 40
p0 125.7 ± 202.1
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −57.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

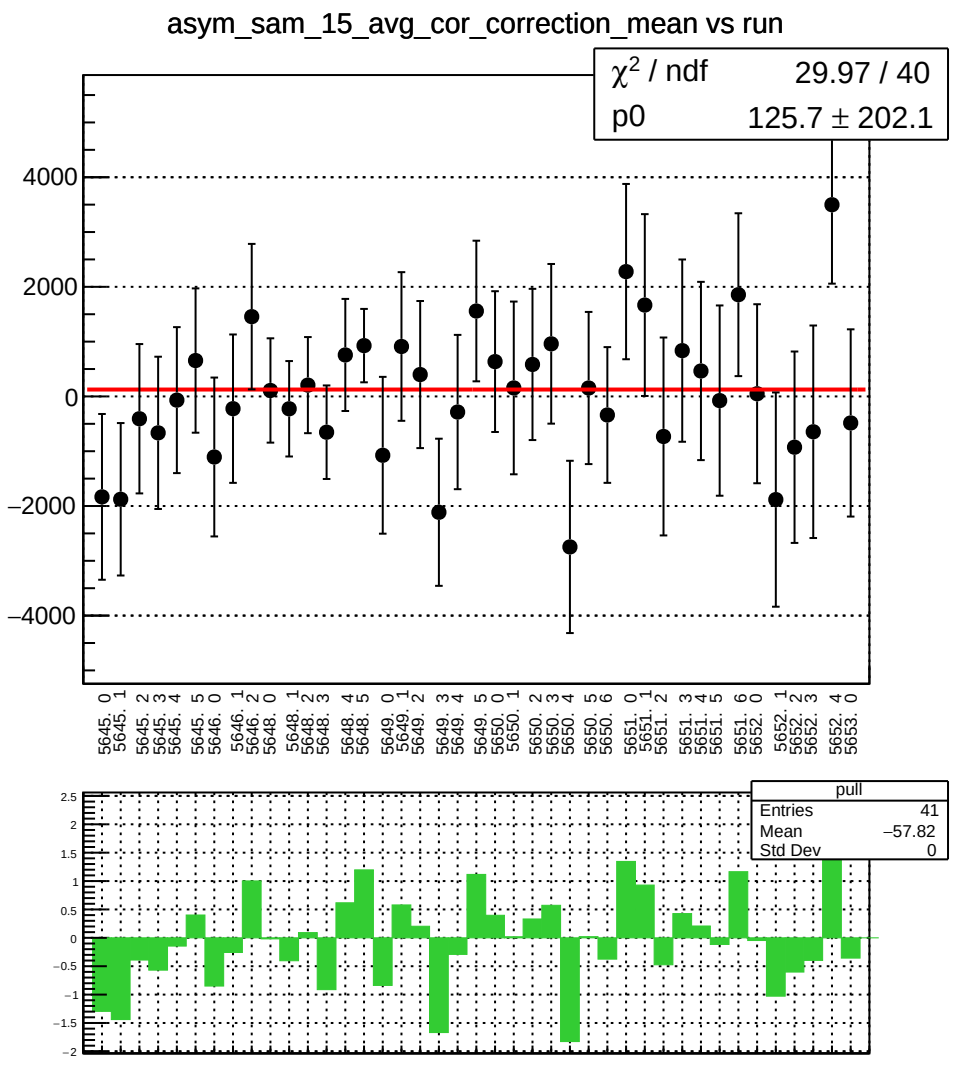

pull1D
Entries 41
Mean −0.03265
Std Dev 0.8544
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

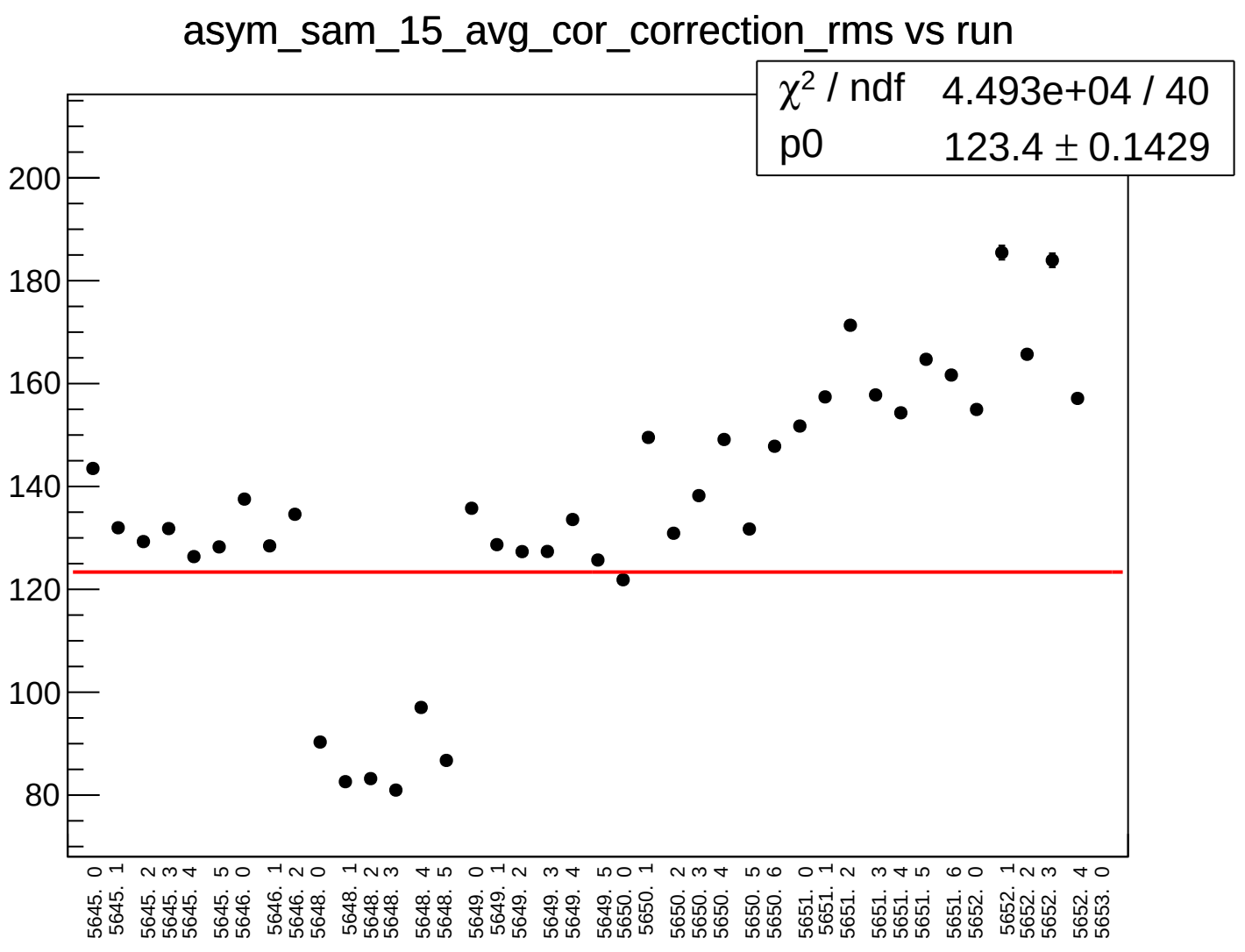

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4.493e+04 / 40
p0 123.4 ± 0.1429
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

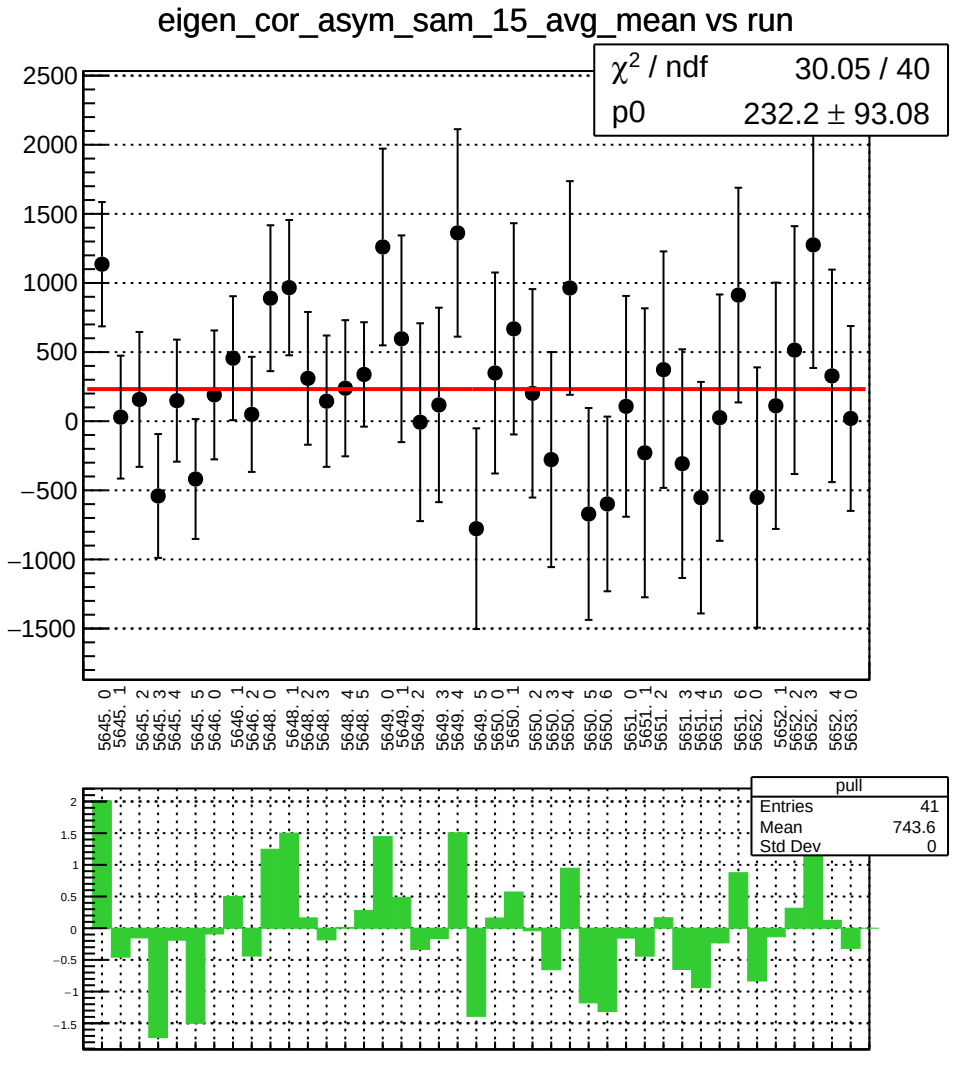

cor_asym_sam_15_avg_mean vs run
χ² / ndf 30.05 / 40
p0 232.2 ± 93.08
pull
Entries 41
Mean 743.6
Std Dev 0

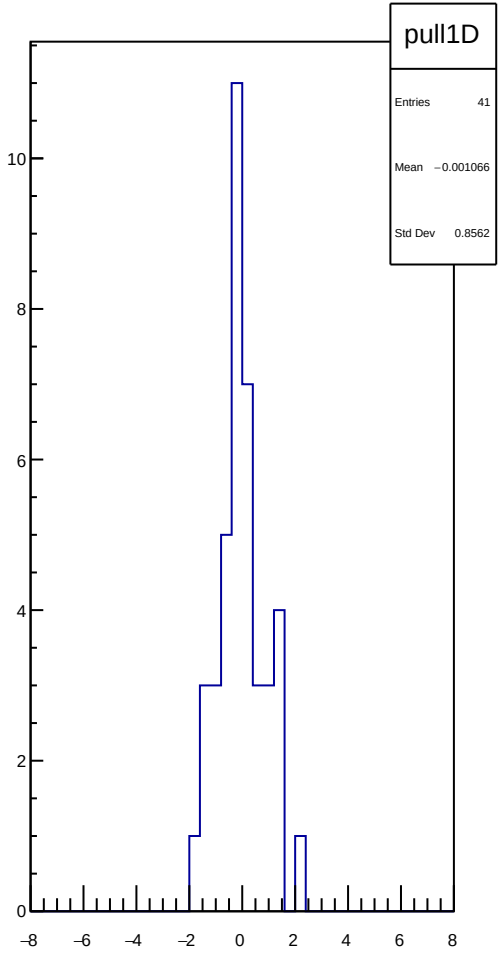

pull1D
Entries 41
Mean −0.001066
Std Dev 0.8562

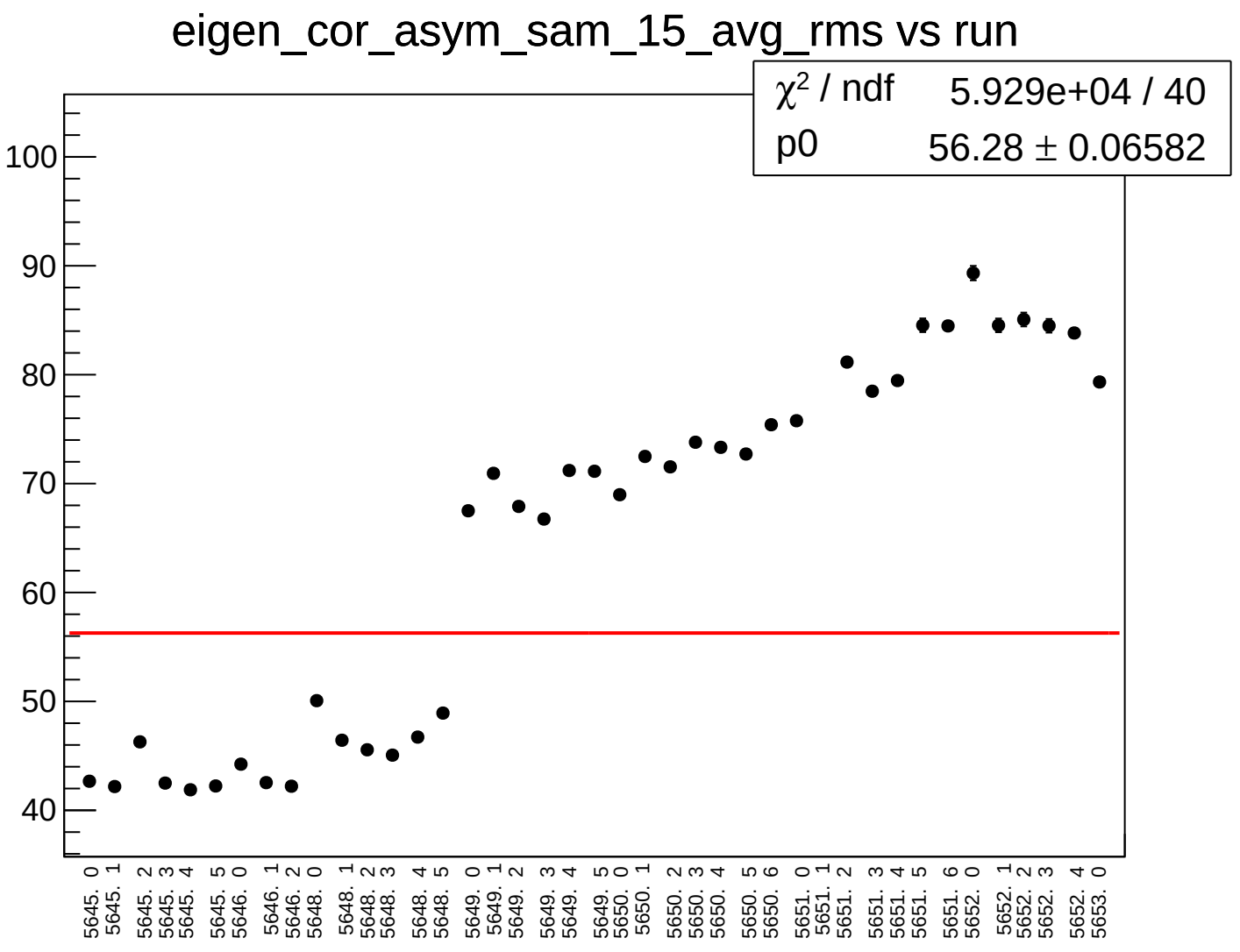

cor_asym_sam_15_avg_rms vs run
χ² / ndf 5.929e+04 / 40
p0 56.28 ± 0.06582
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 29.97 / 40
p0 125.7 ± 202.1
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −57.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.03265
Std Dev 0.8544
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4.493e+04 / 40
p0 123.4 ± 0.1429
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 30.05 / 40
p0 232.2 ± 93.08
pull
Entries 41
Mean 743.6
Std Dev 0


pull1D
Entries 41
Mean −0.001066
Std Dev 0.8562


eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 5.929e+04 / 40
p0 56.28 ± 0.06582
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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5652. 2
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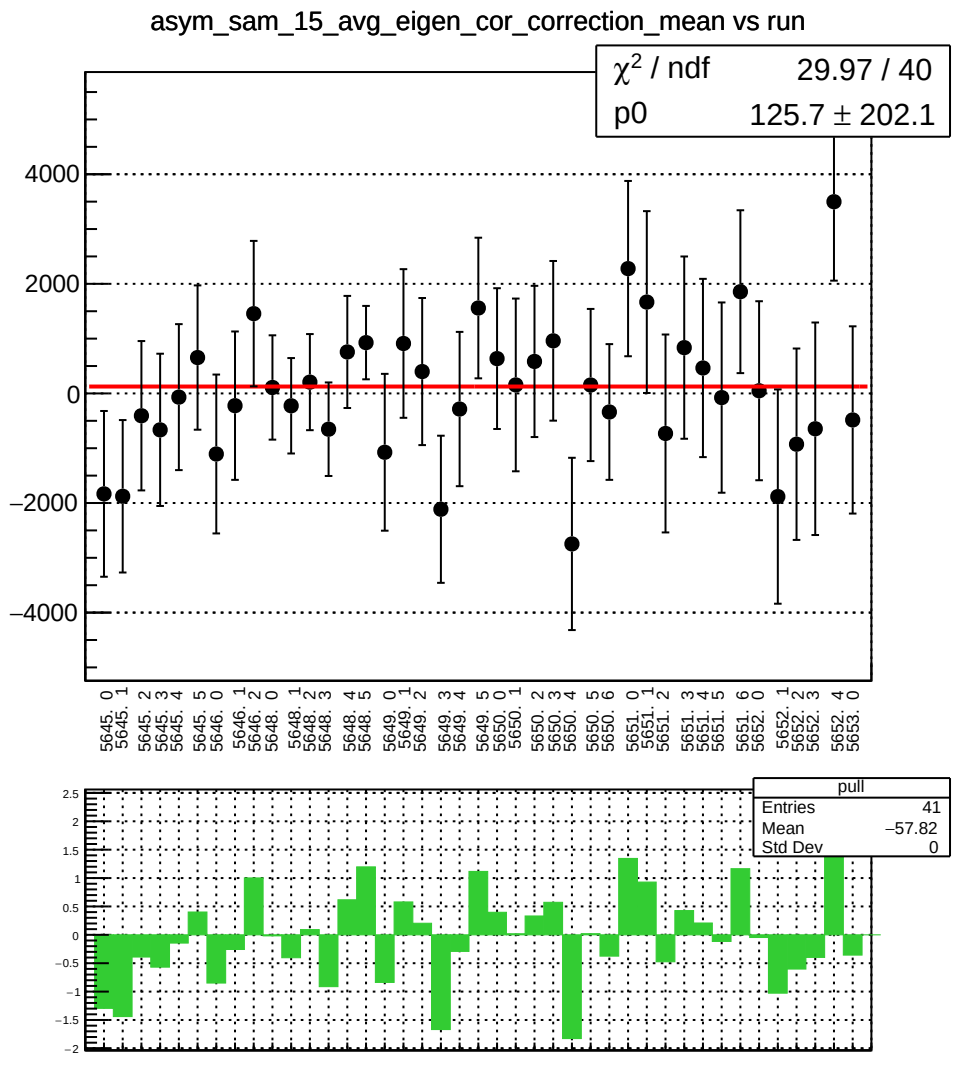
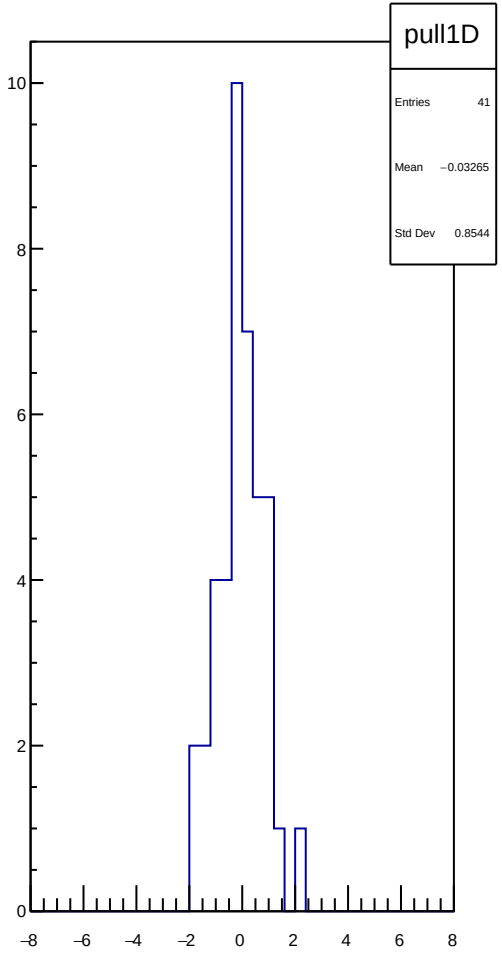
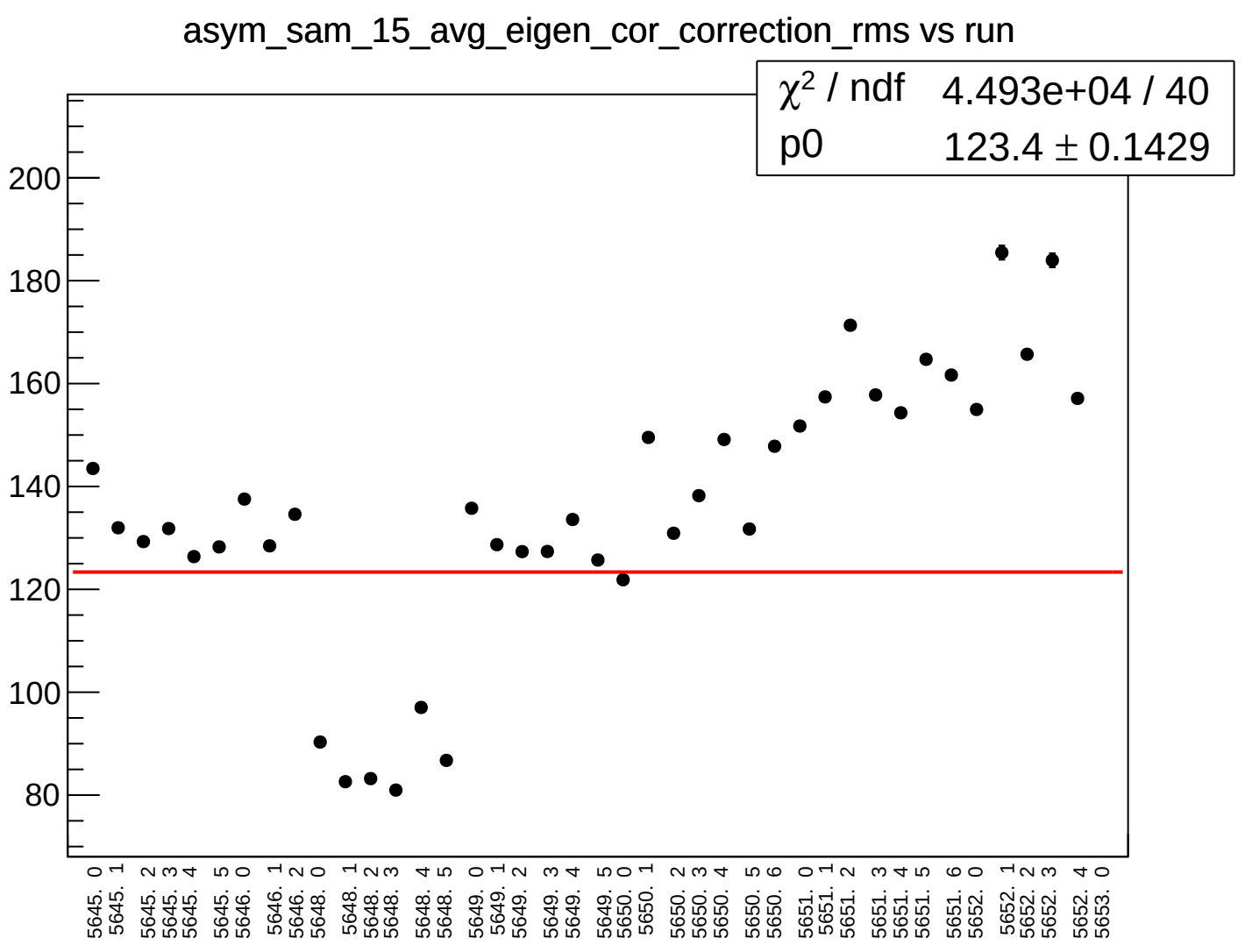
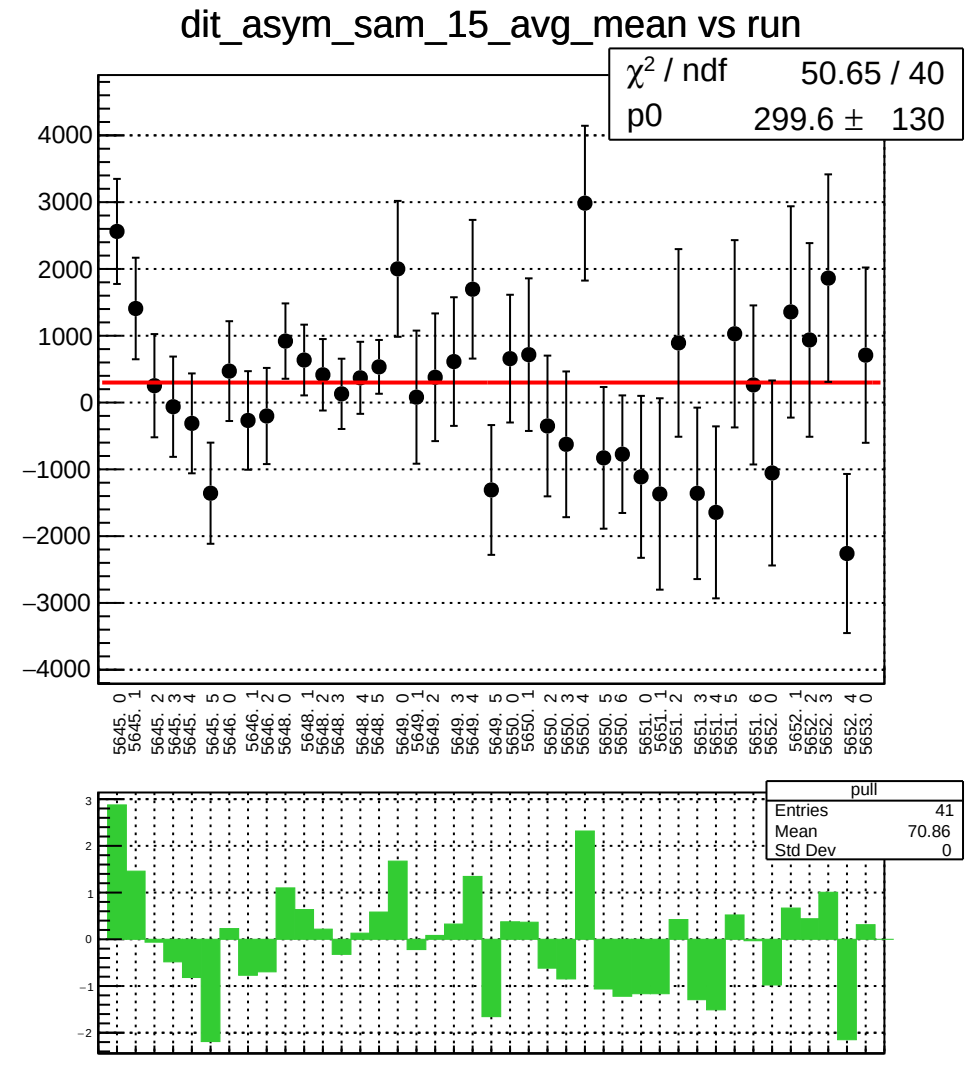
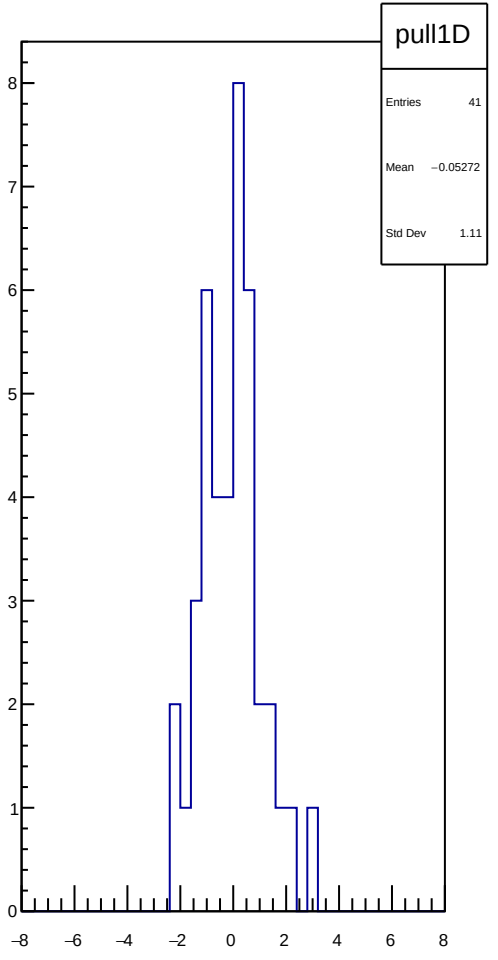
5652. 4
5653. 0

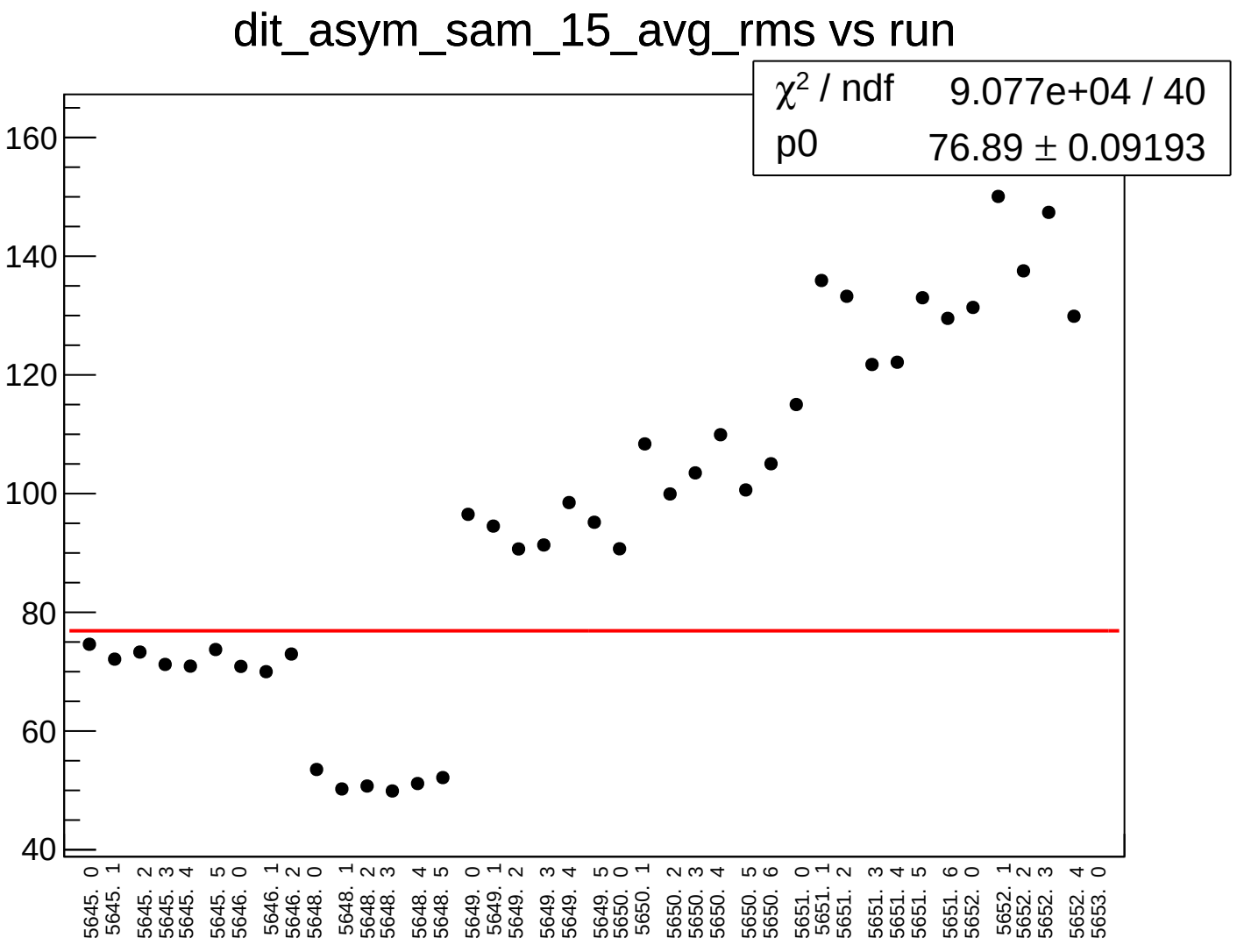

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 29.97 / 40
p0 125.7 ± 202.1
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −57.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.03265
Std Dev 0.8544
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.493e+04 / 40
p0 123.4 ± 0.1429
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_sam_15_avg_mean vs run
χ² / ndf 50.65 / 40
p0 299.6 ± 130
pull
Entries 41
Mean 70.86
Std Dev 0


pull1D
Entries 41
Mean −0.05272
Std Dev 1.11


dit_asym_sam_15_avg_rms vs run
χ² / ndf 9.077e+04 / 40
p0 76.89 ± 0.09193
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5648. 1
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
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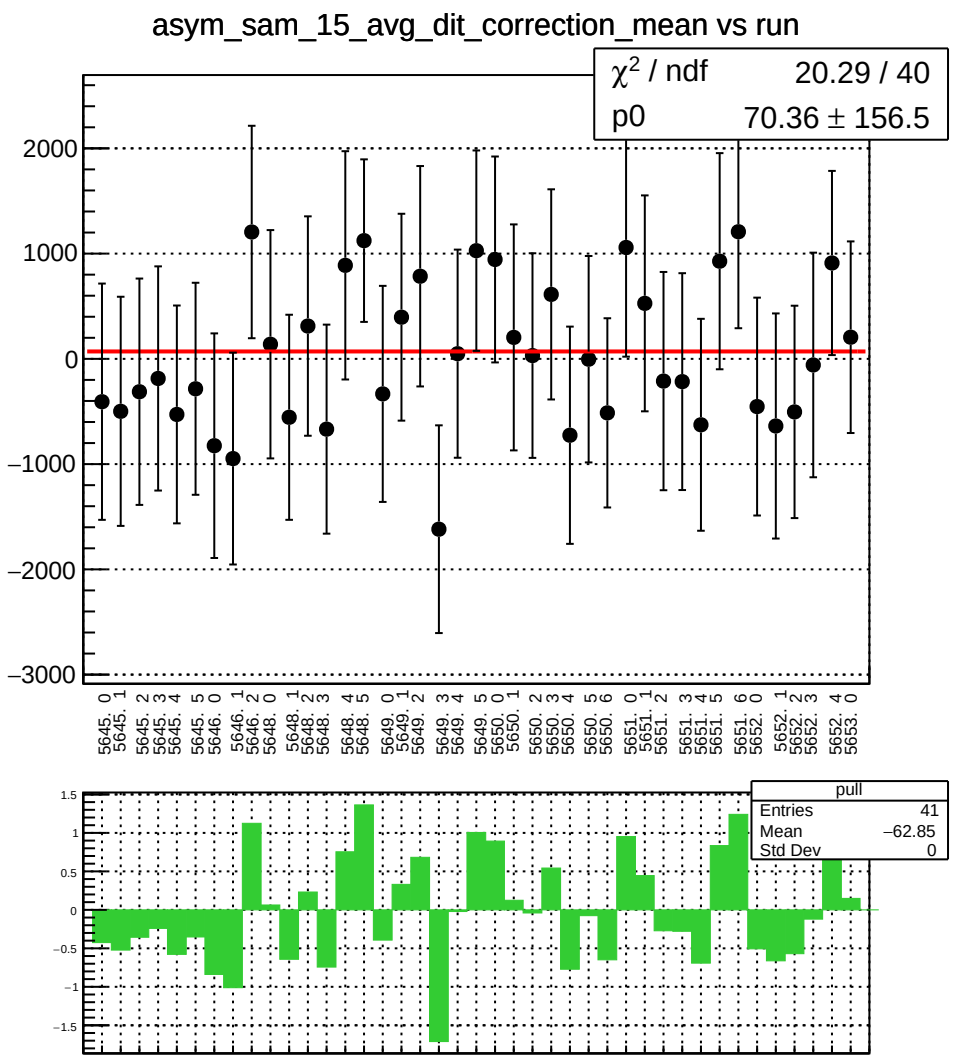
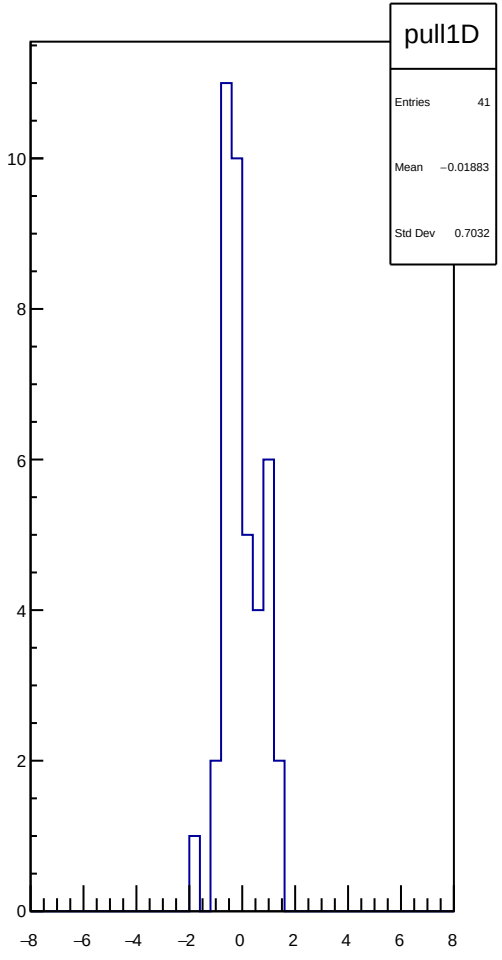
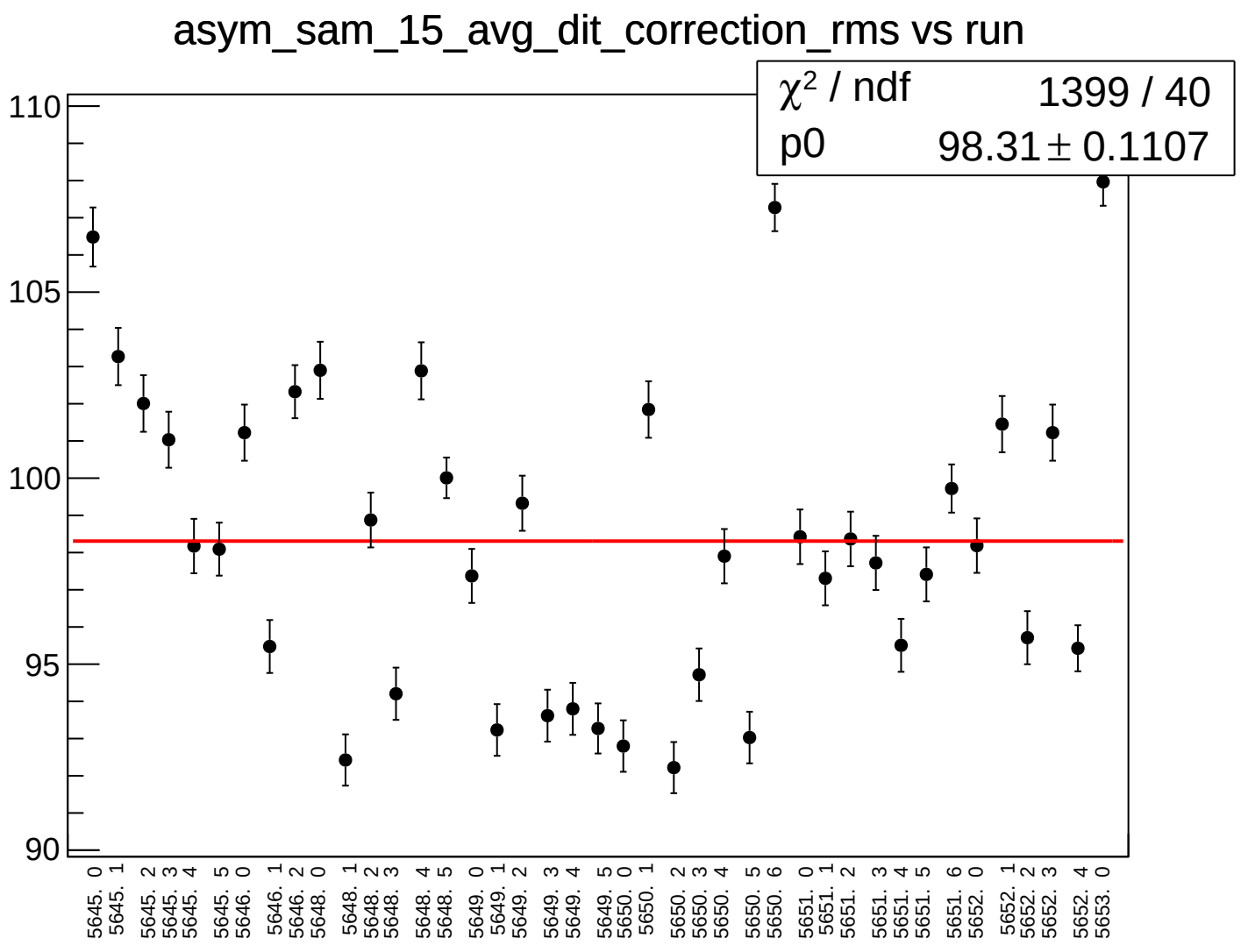
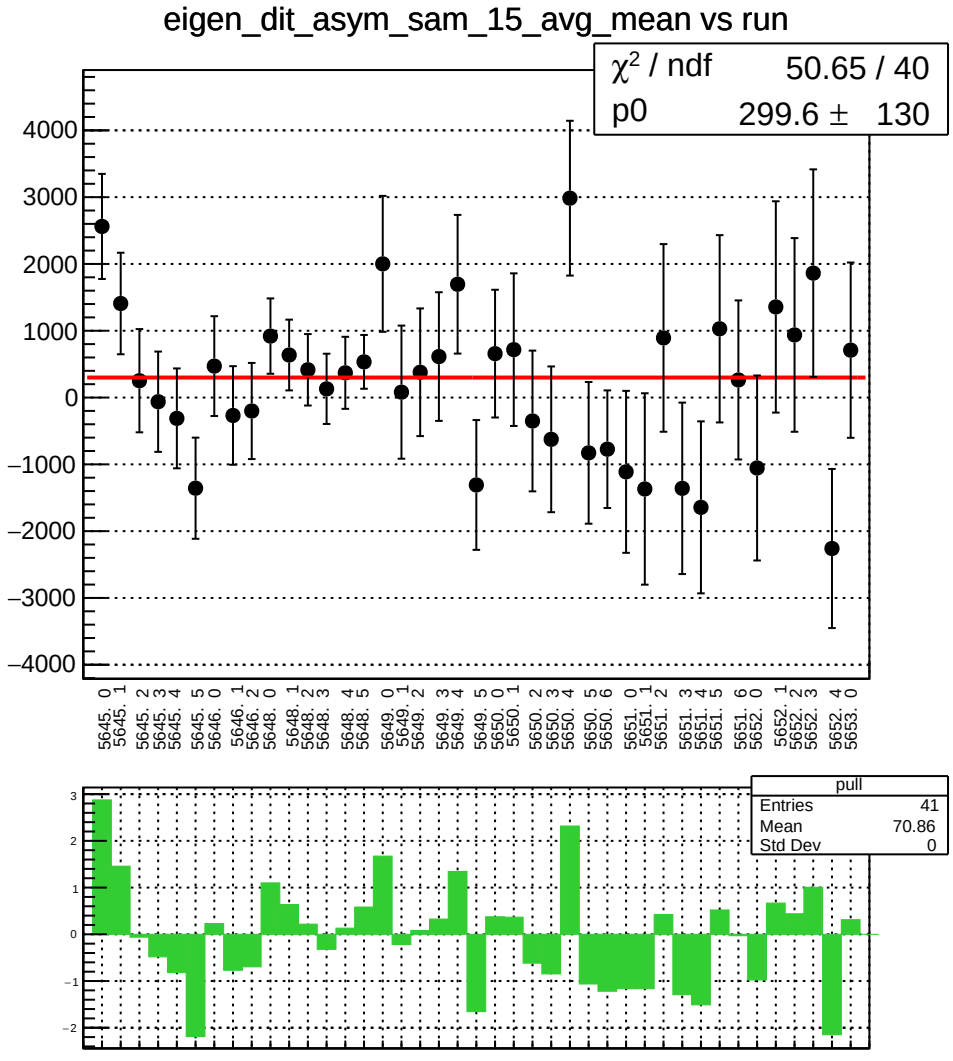
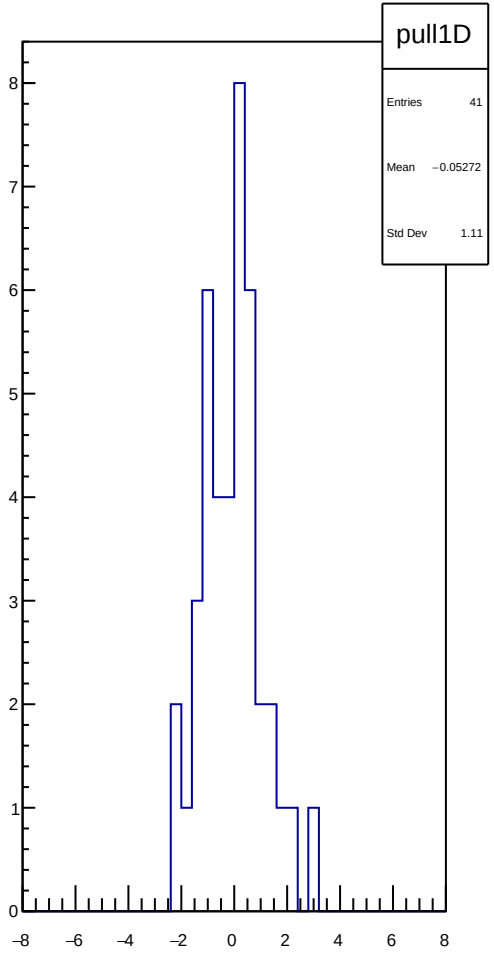
5652. 2
5652. 3
5652. 4
5653. 0

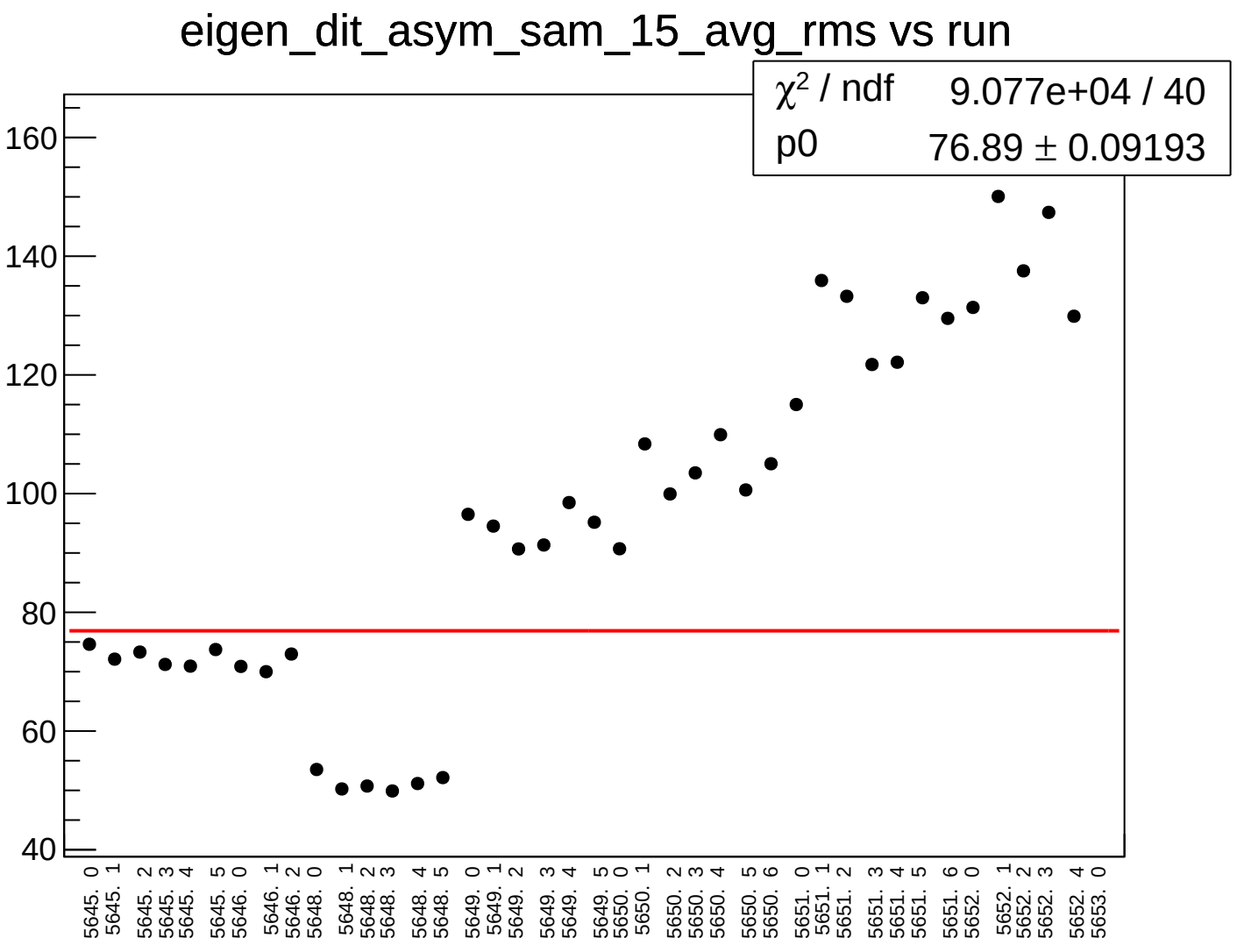

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 20.29 / 40
p0 70.36 ± 156.5
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −62.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

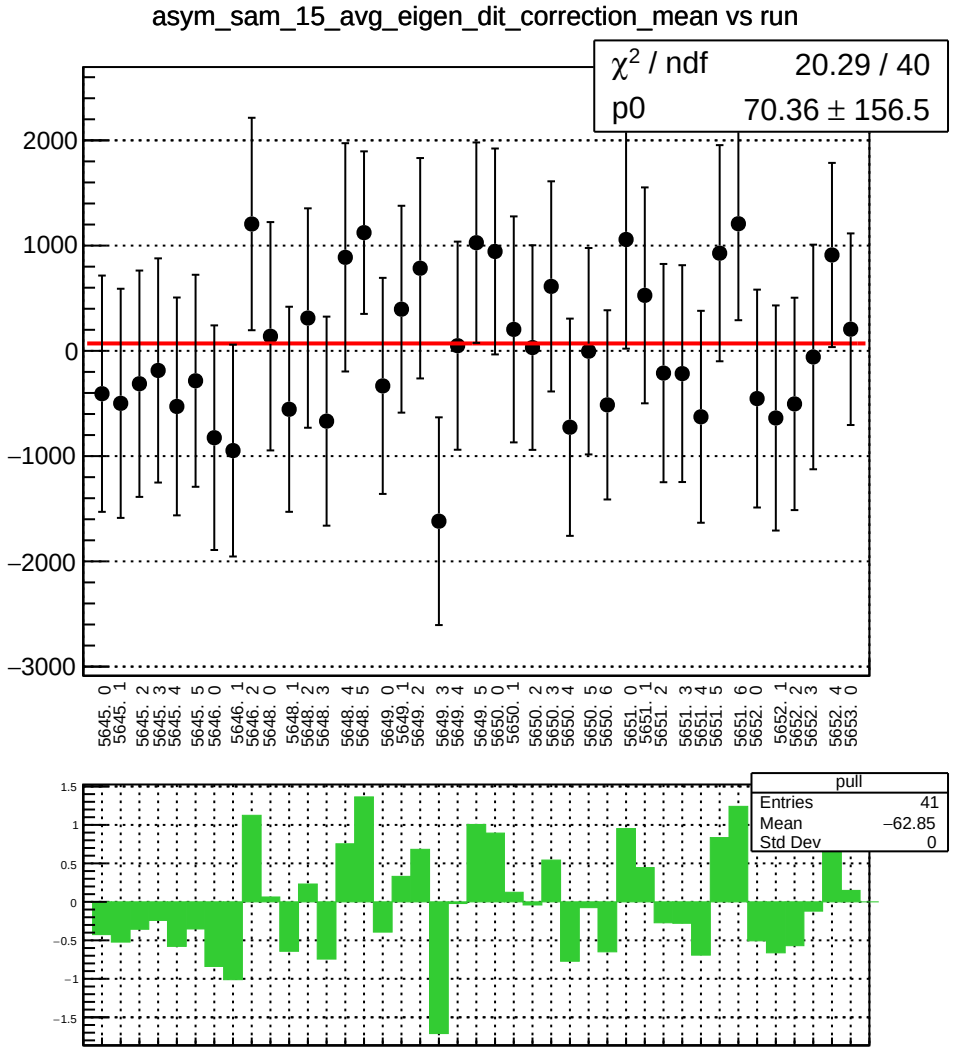

pull1D
Entries 41
Mean −0.01883
Std Dev 0.7032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

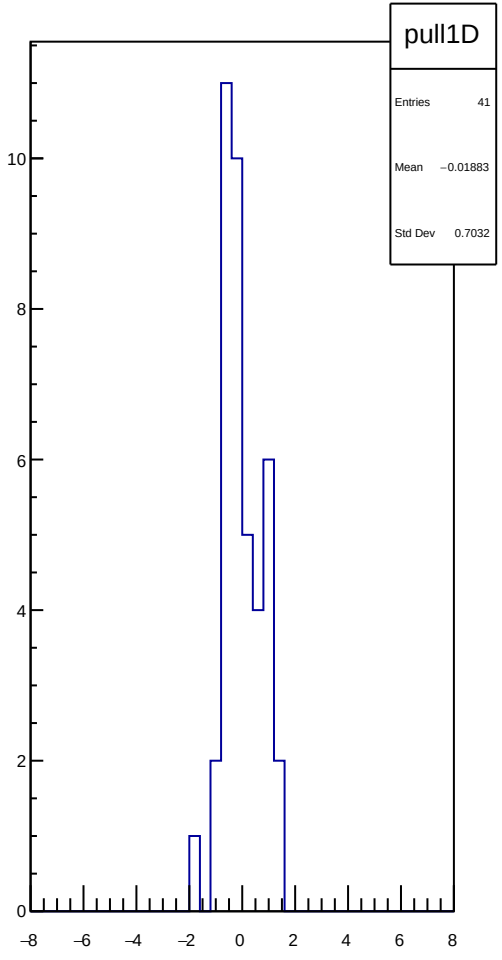

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1399 / 40
p0 98.31 ± 0.1107
110
105
100
95
90
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

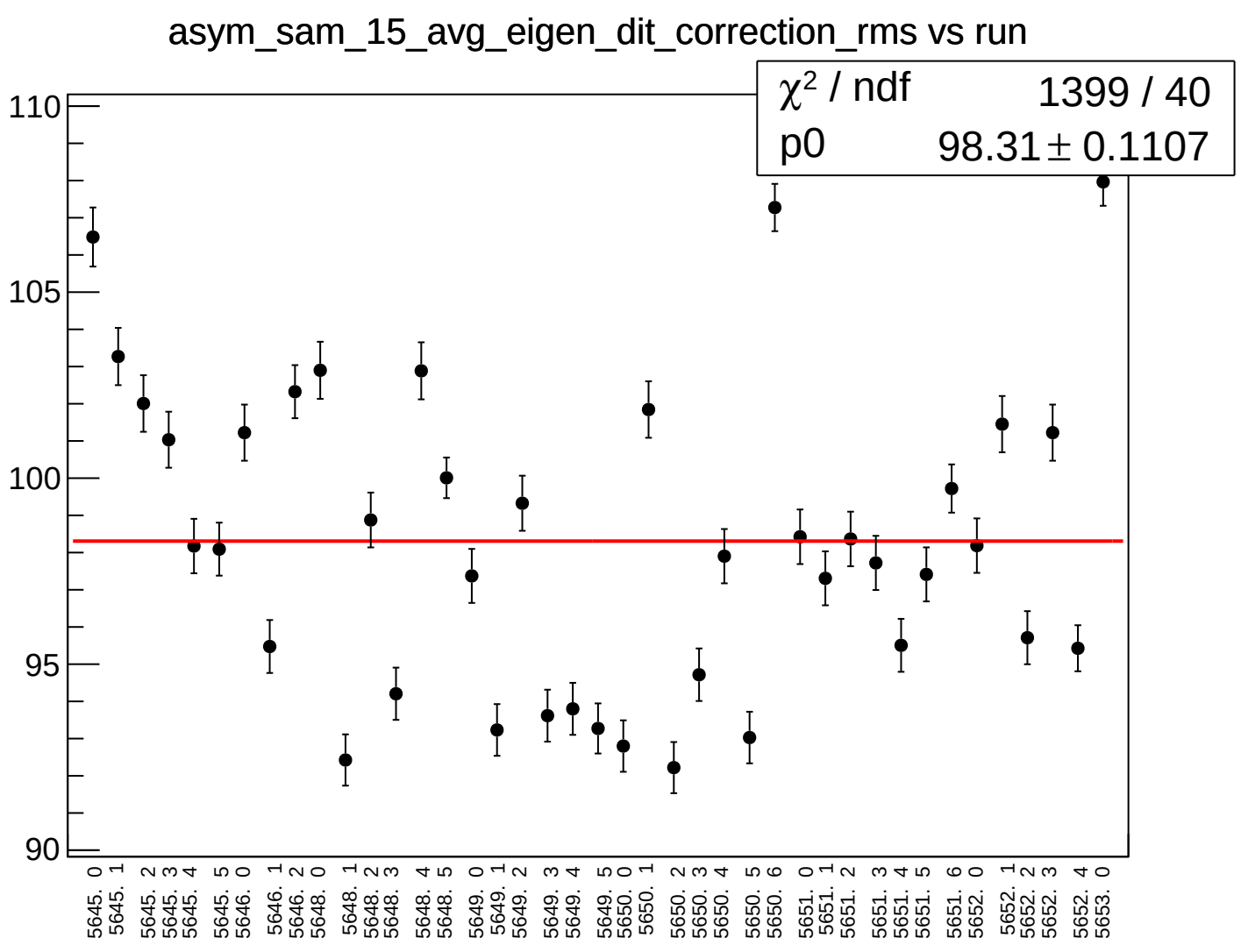

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 50.65 / 40
p0 299.6 ± 130
pull
Entries 41
Mean 70.86
Std Dev 0

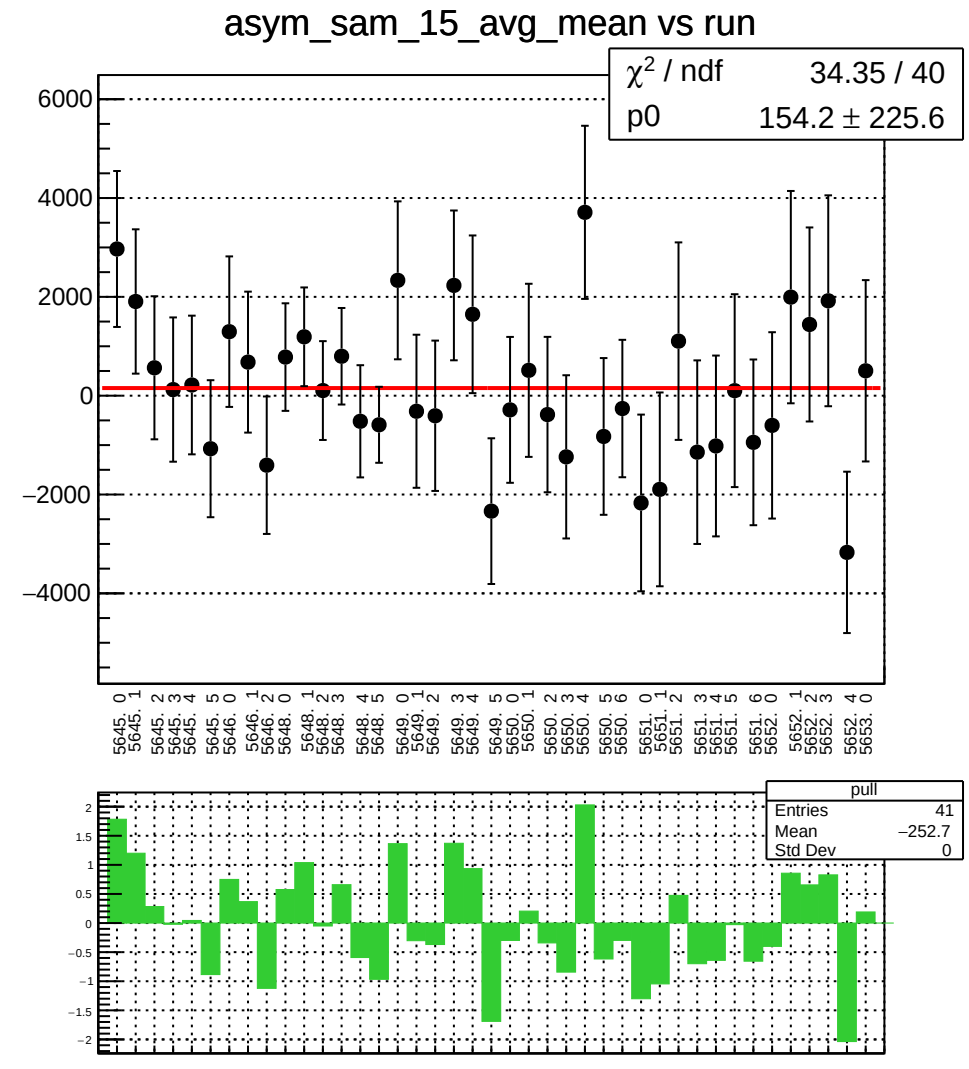

pull1D
Entries 41
Mean −0.05272
Std Dev 1.11

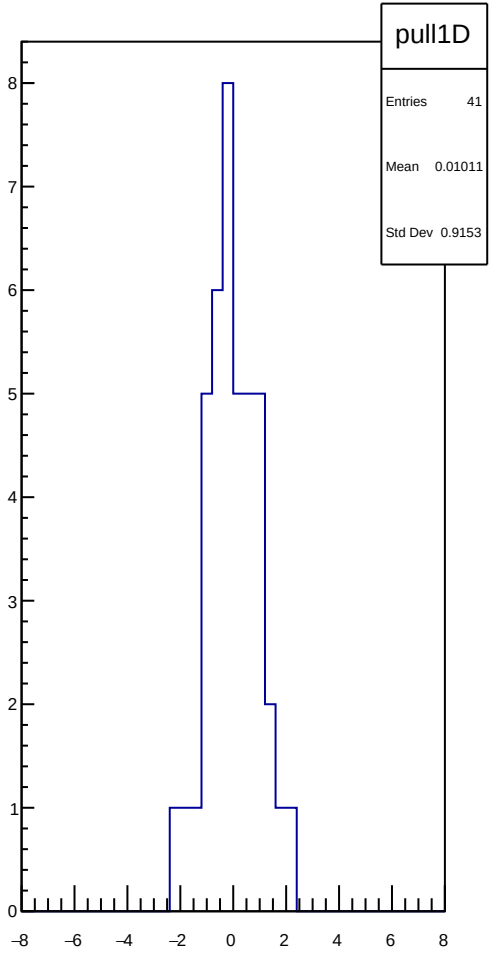

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 9.077e+04 / 40
p0 76.89 ± 0.09193
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

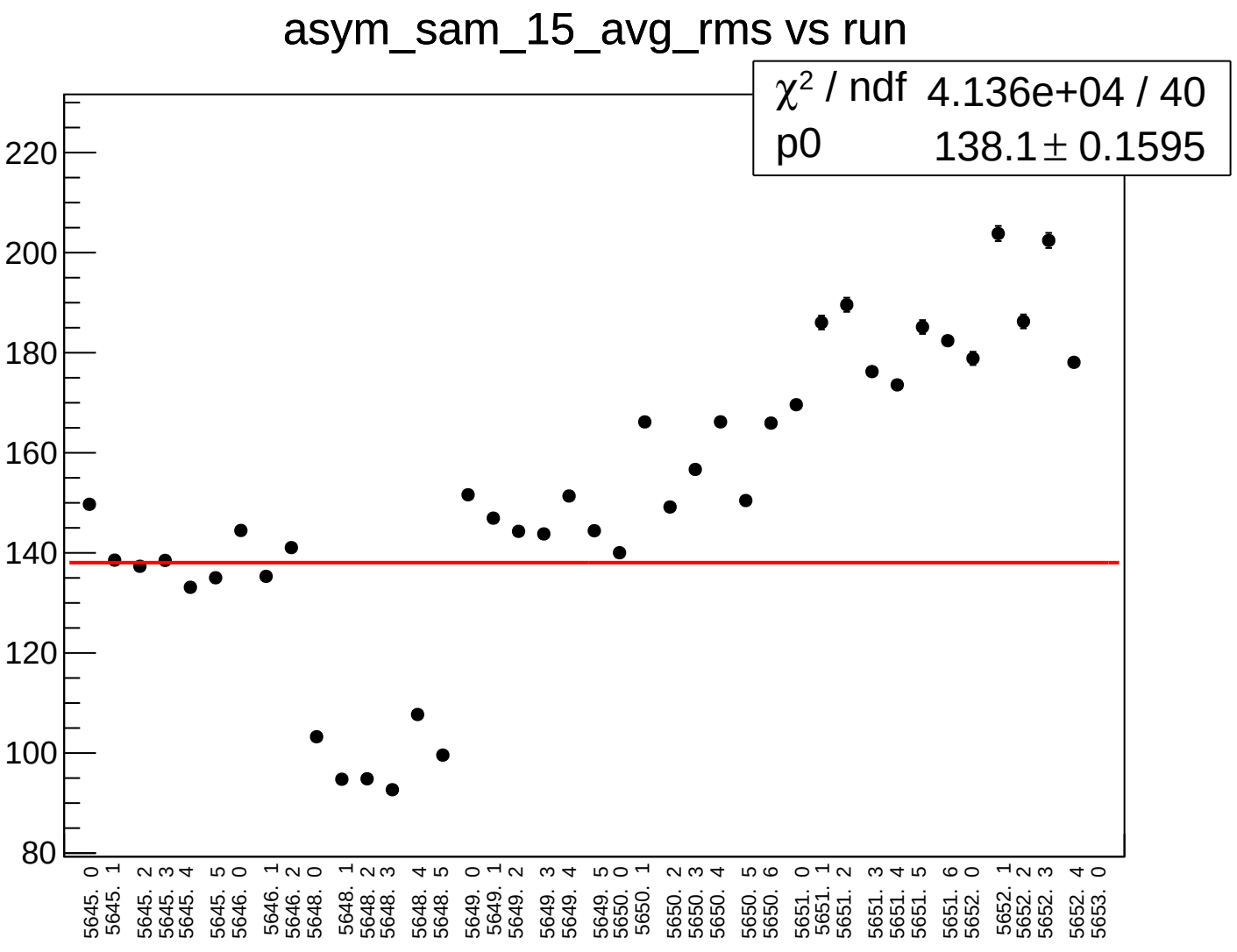

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 20.29 / 40
p0 70.36 ± 156.5
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −62.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

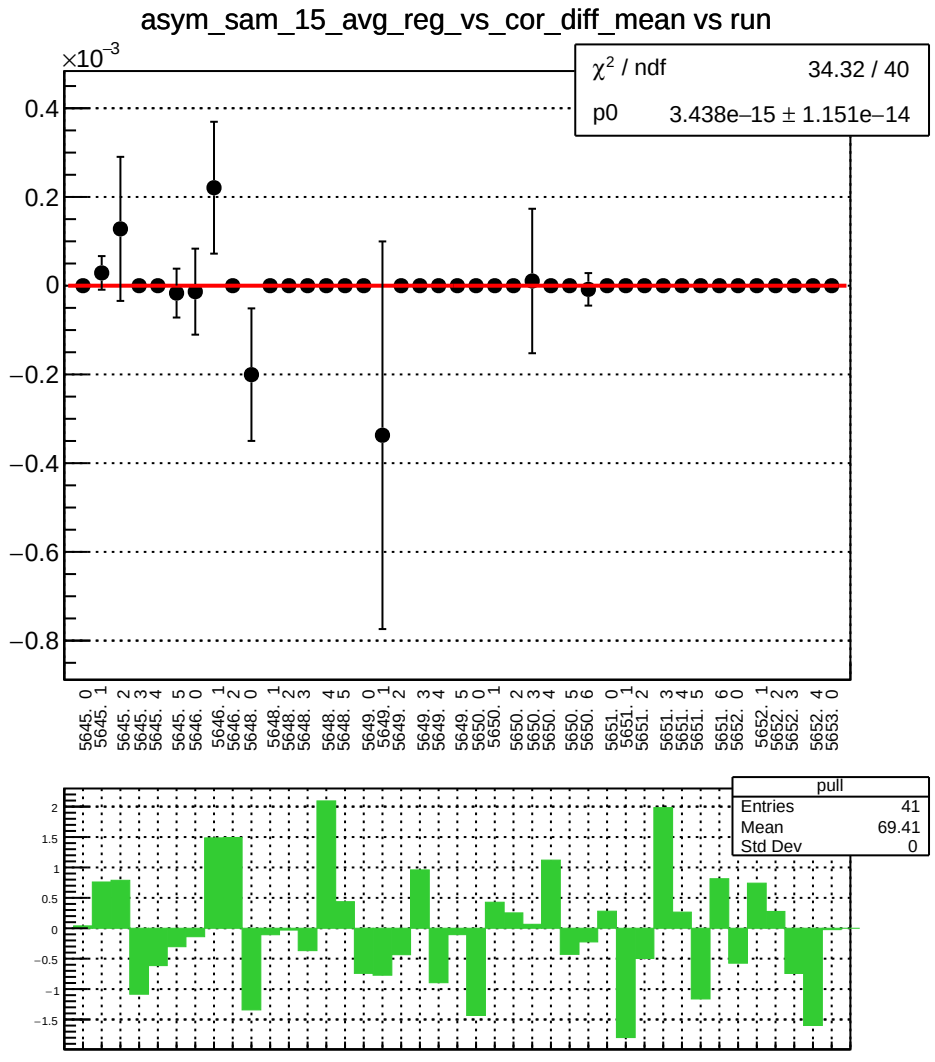

pull1D
Entries 41
Mean −0.01883
Std Dev 0.7032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

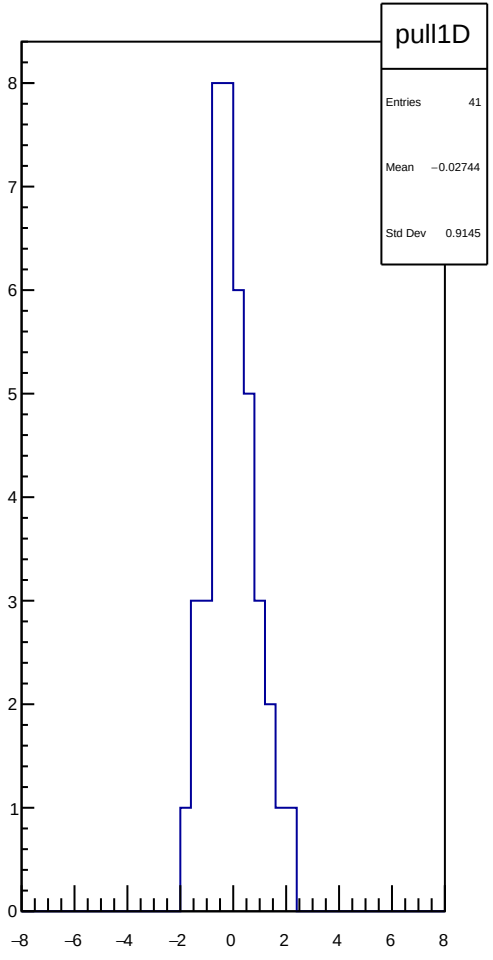

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1399 / 40
p0 98.31 ± 0.1107
110
105
100
95
90
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

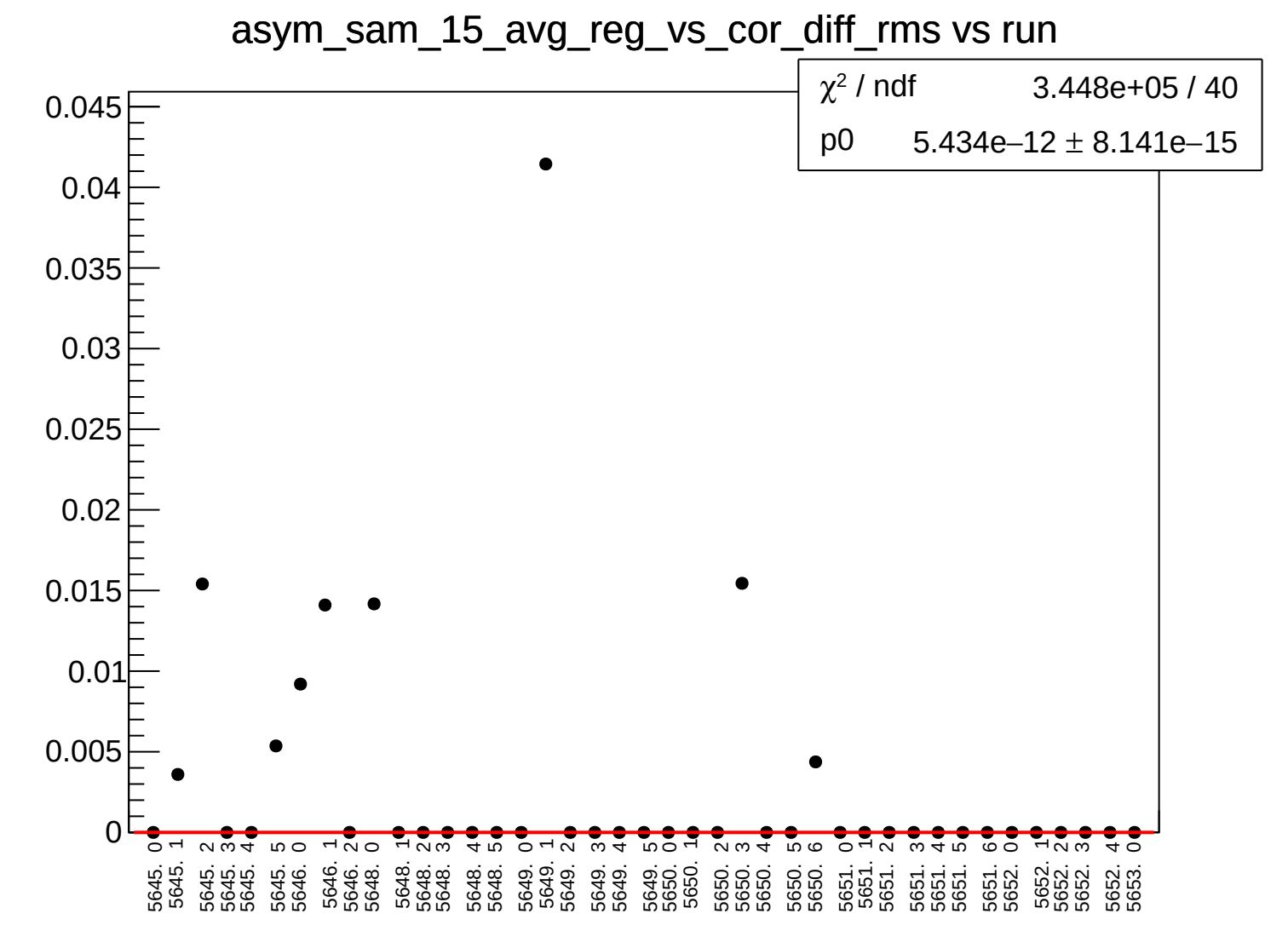

asym_sam_15_avg_mean vs run
χ² / ndf 34.35 / 40
p0 154.2 ± 225.6
6000
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −252.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

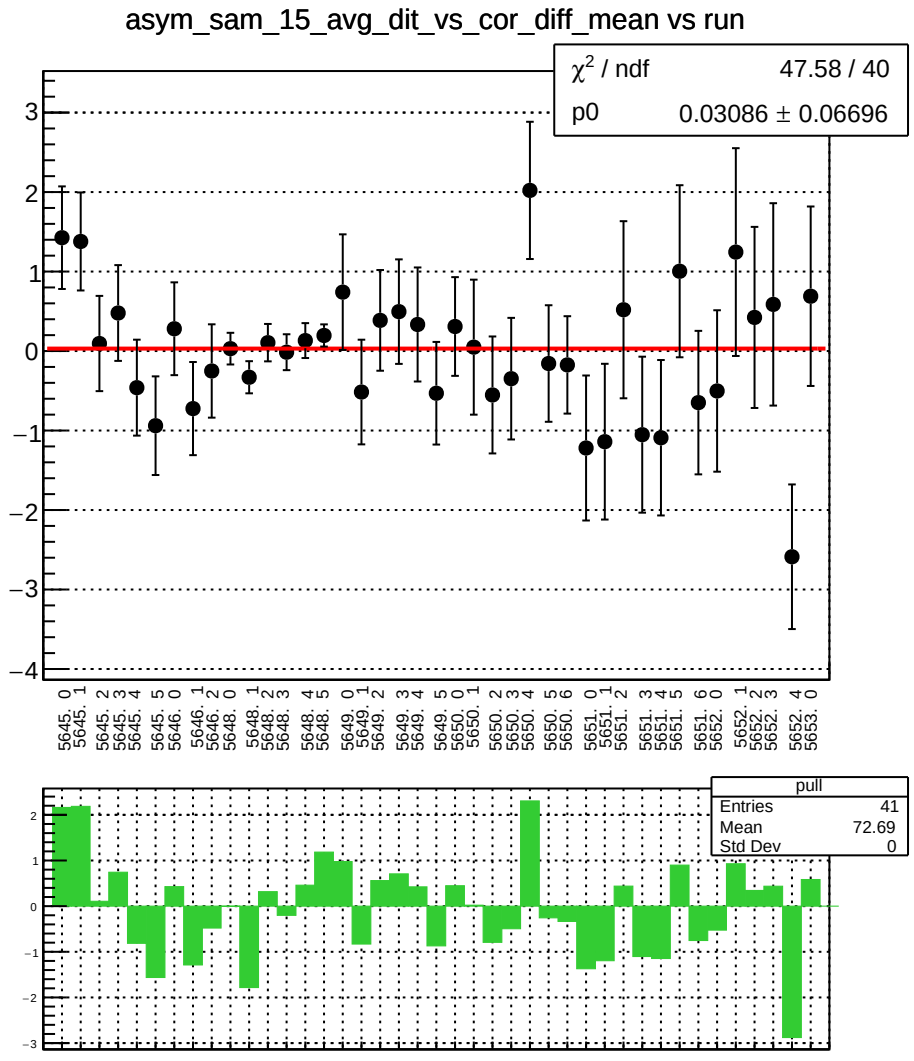

pull1D
Entries 41
Mean 0.01011
Std Dev 0.9153
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

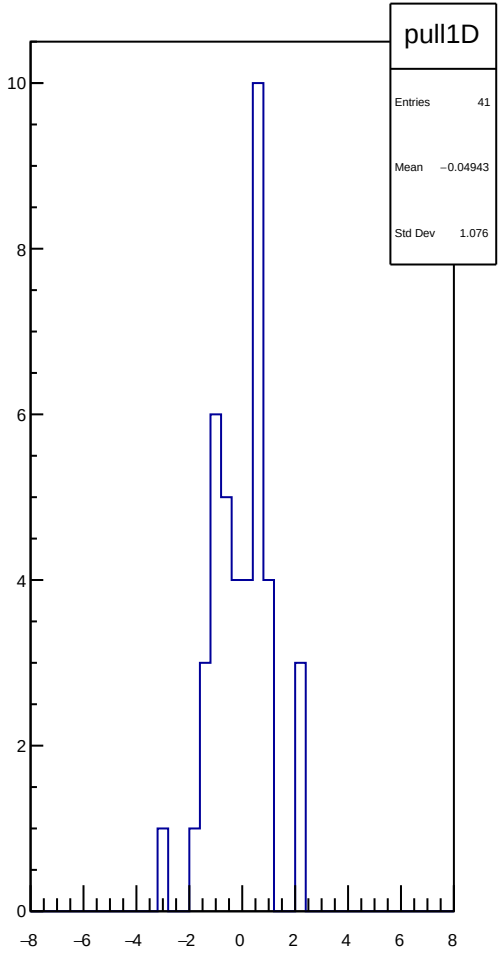

asym_sam_15_avg_rms vs run
χ² / ndf 4.136e+04 / 40
p0 138.1 ± 0.1595
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

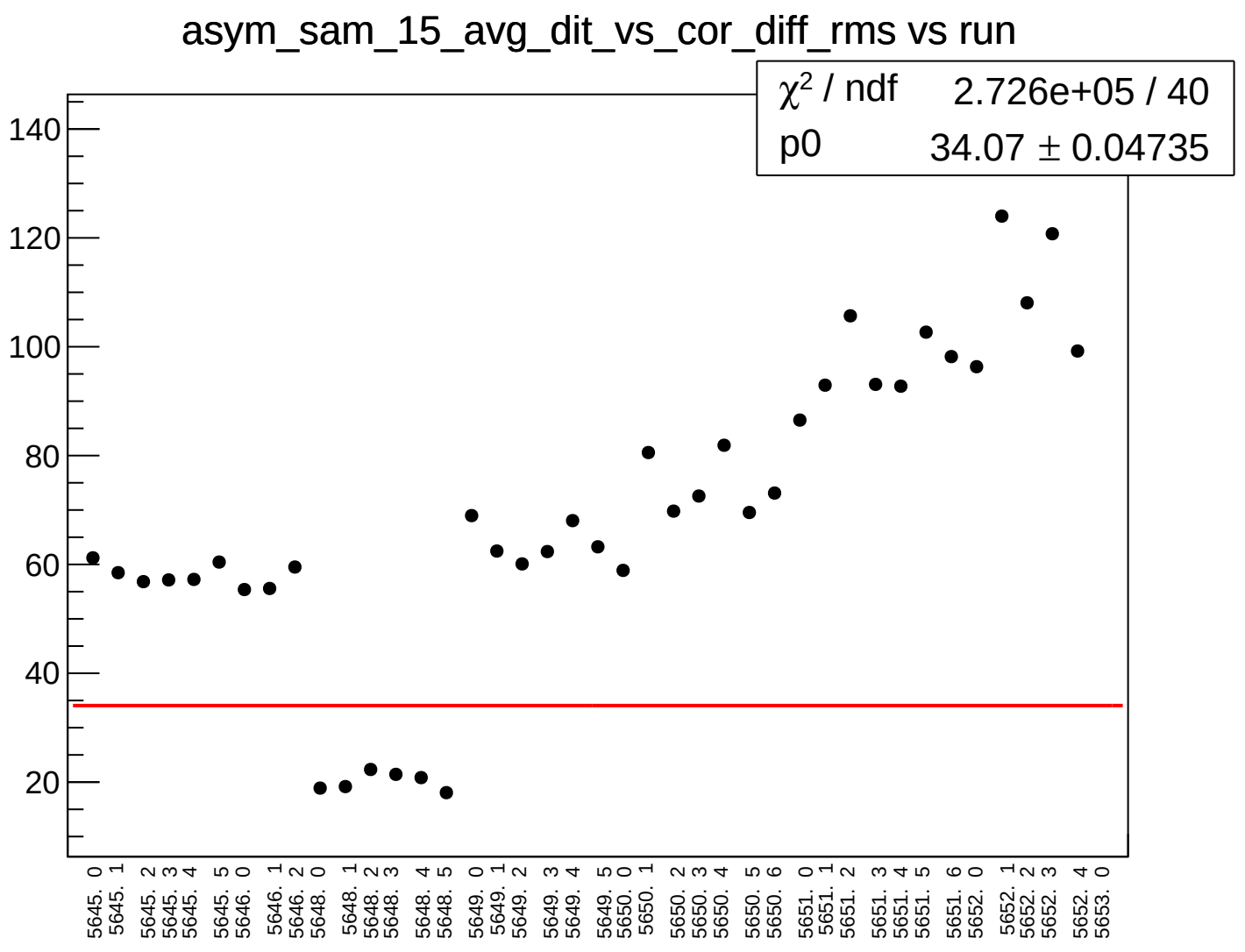

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 34.32 / 40
p0 3.438e−15 ± 1.151e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 69.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

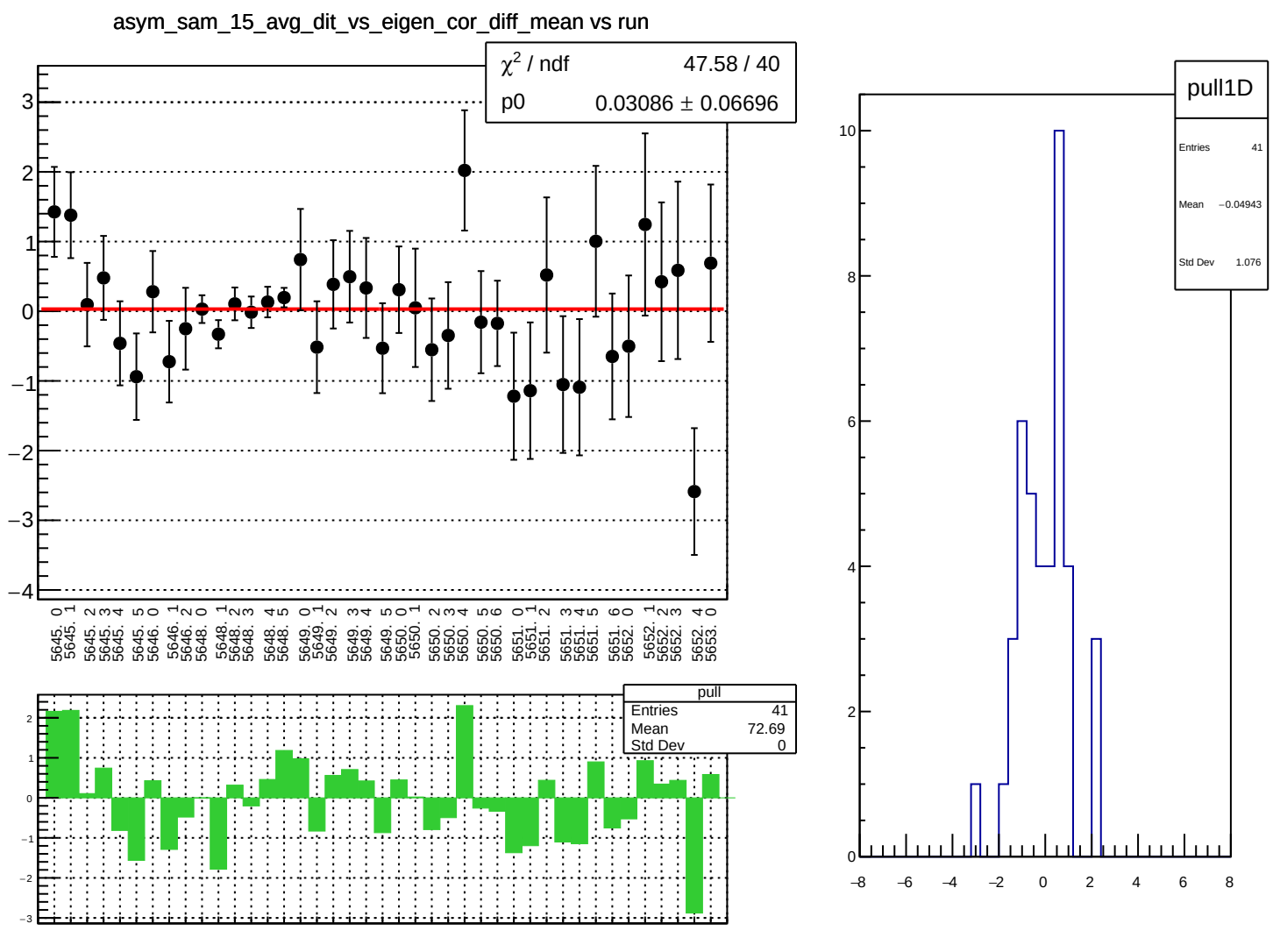

pull1D
Entries 41
Mean −0.02744
Std Dev 0.9145
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

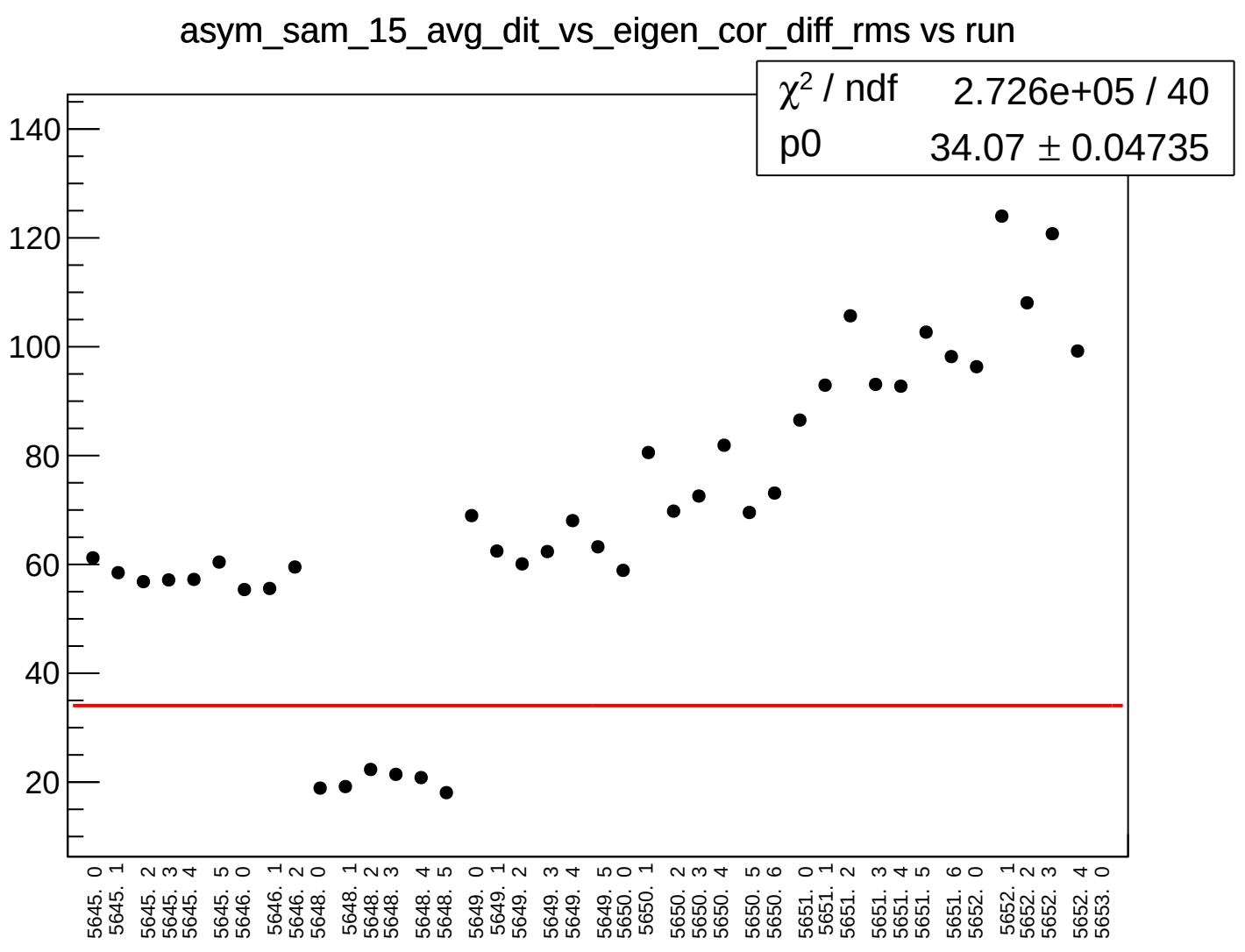

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.448e+05 / 40
p0 5.434e−12 ± 8.141e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

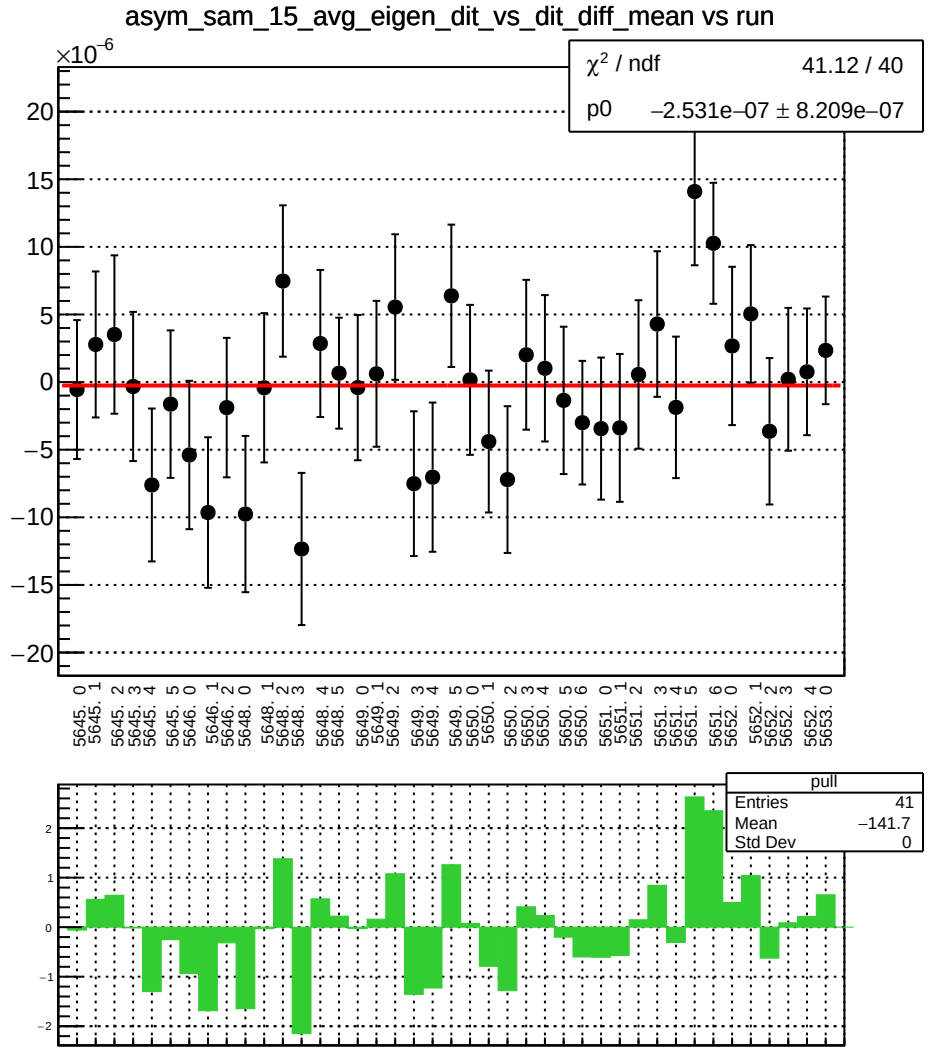

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.58 / 40
p0 0.03086 ± 0.06696
pull
Entries 41
Mean 72.69
Std Dev 0

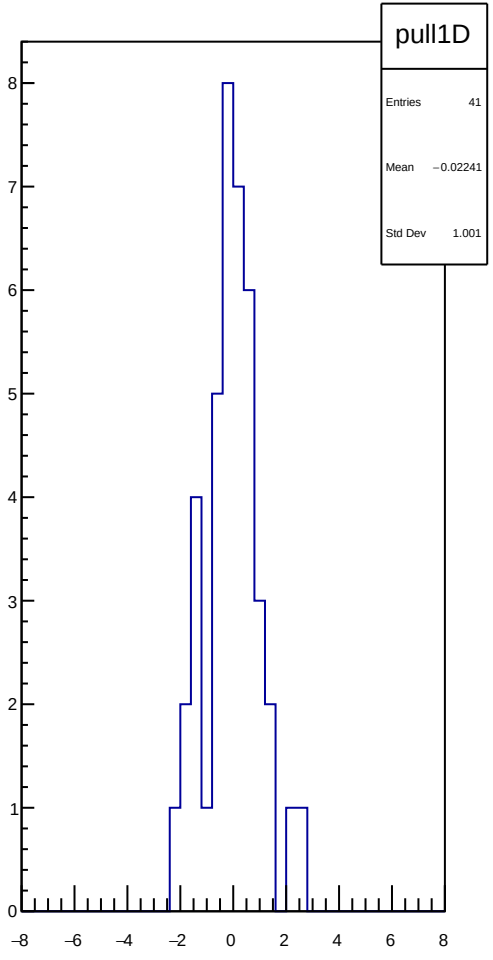

pull1D
Entries 41
Mean −0.04943
Std Dev 1.076

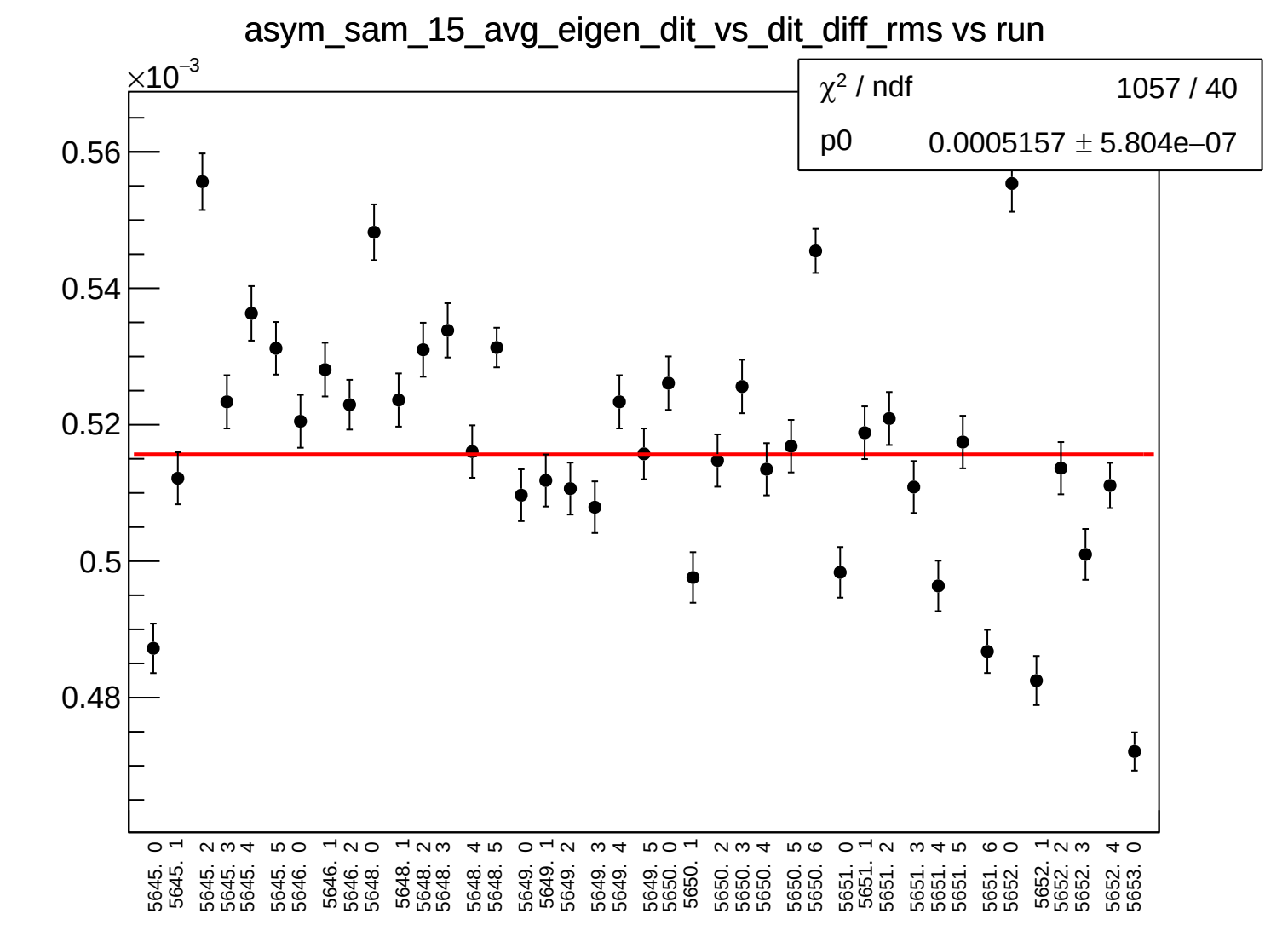

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.726e+05 / 40
p0 34.07 ± 0.04735
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

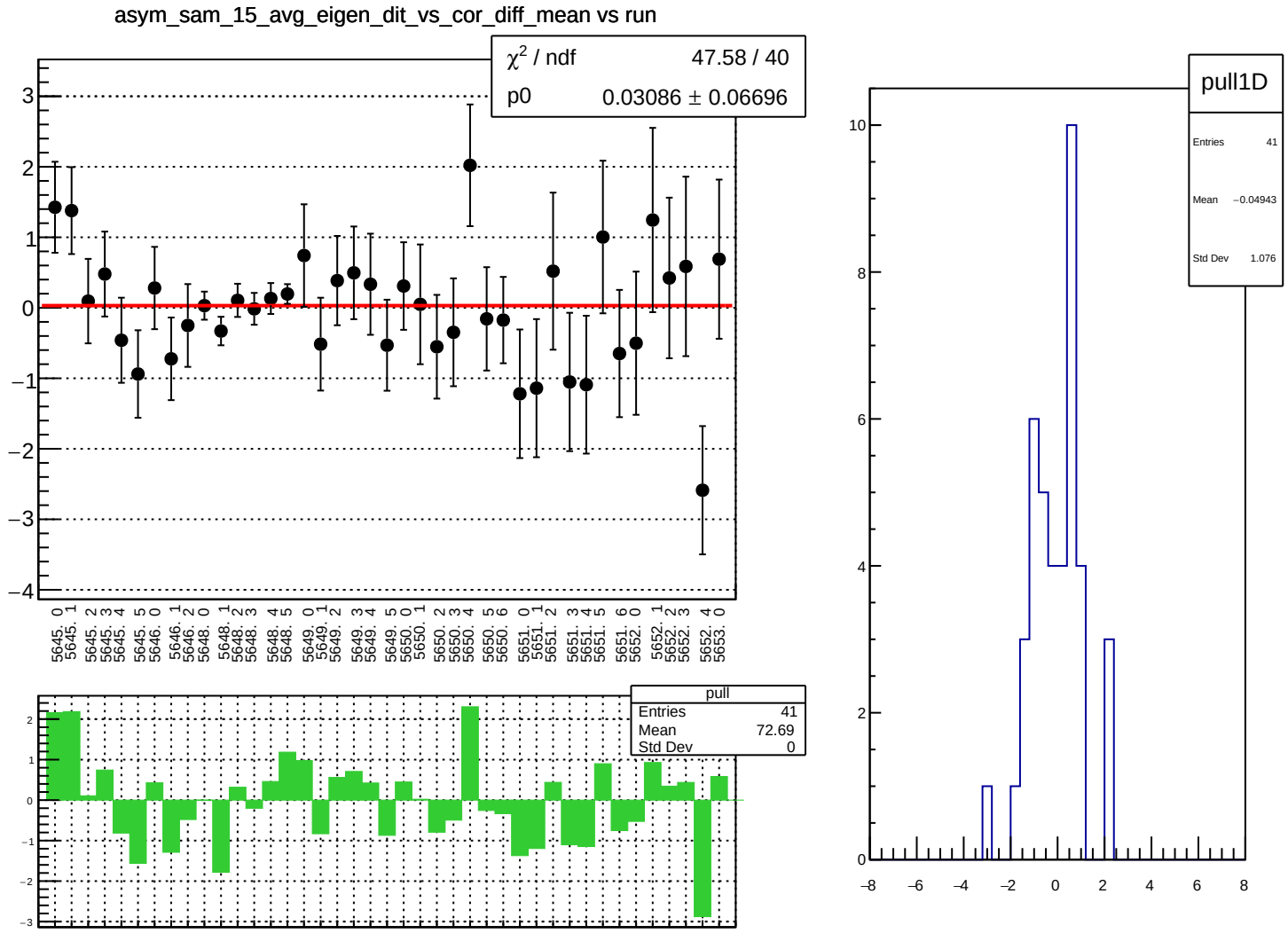

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.58 / 40
p0 0.03086 ± 0.06696
pull
Entries 41
Mean 72.69
Std Dev 0
pull1D
Entries 41
Mean −0.04943
Std Dev 1.076

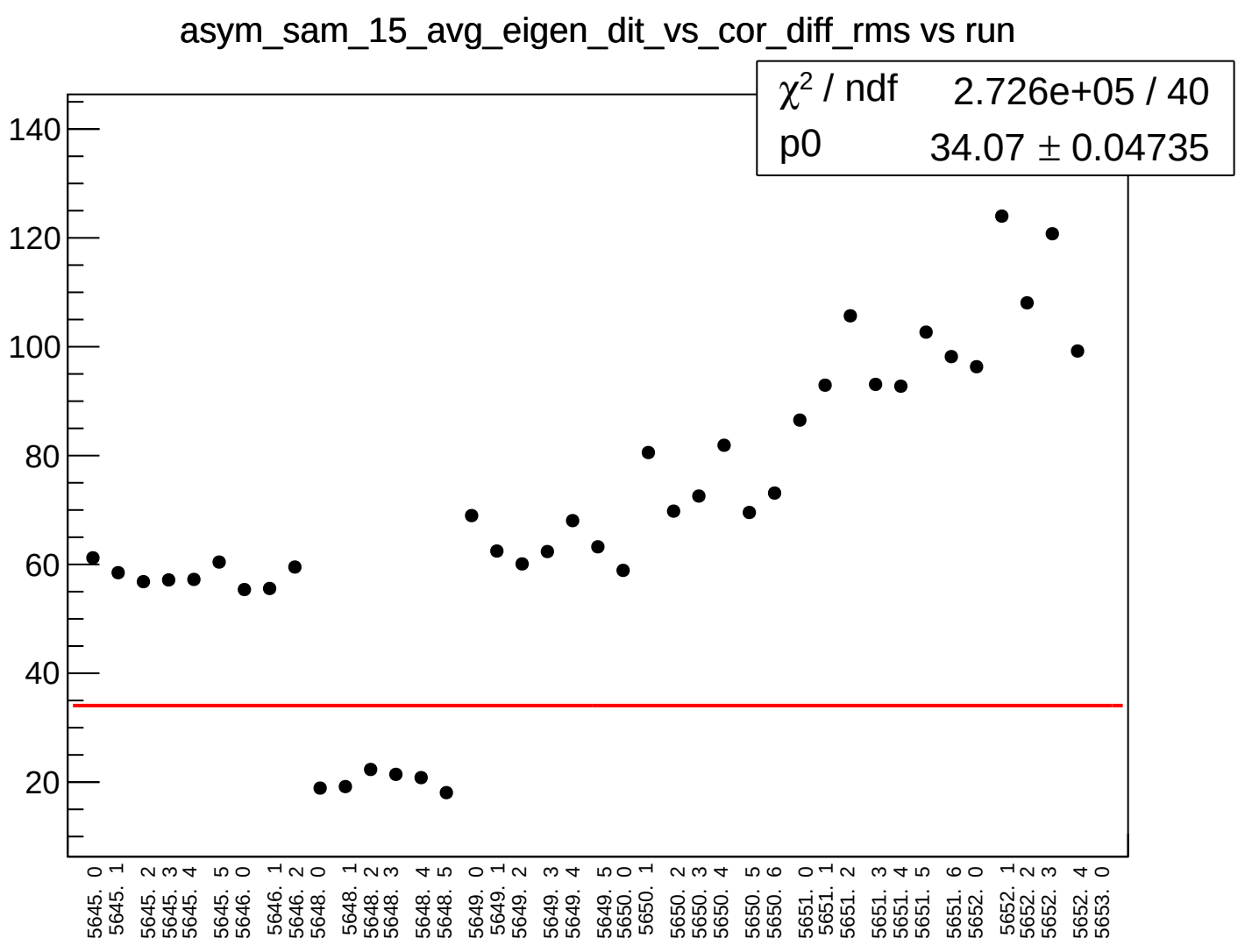

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.726e+05 / 40
p0 34.07 ± 0.04735
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

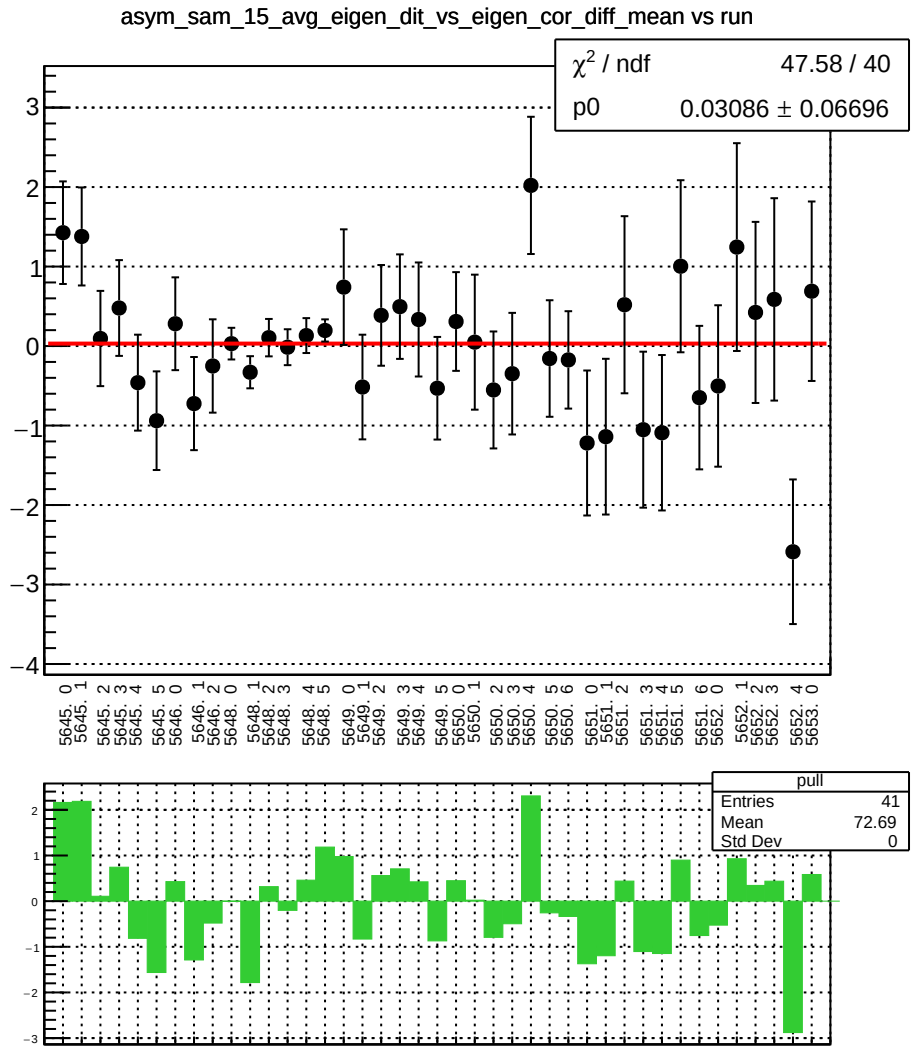

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 41.12 / 40
p0 −2.531e−07 ± 8.209e−07
pull
Entries 41
Mean −141.7
Std Dev 0

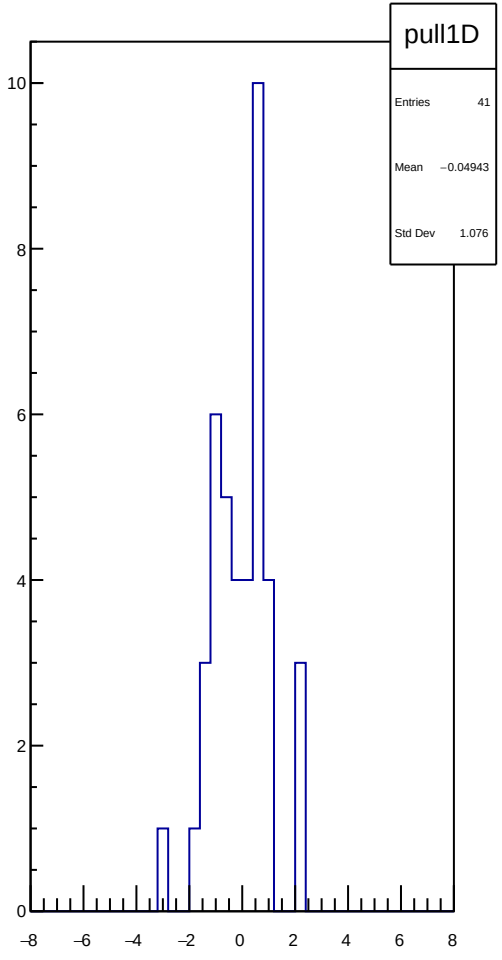

pull1D
Entries 41
Mean −0.02241
Std Dev 1.001

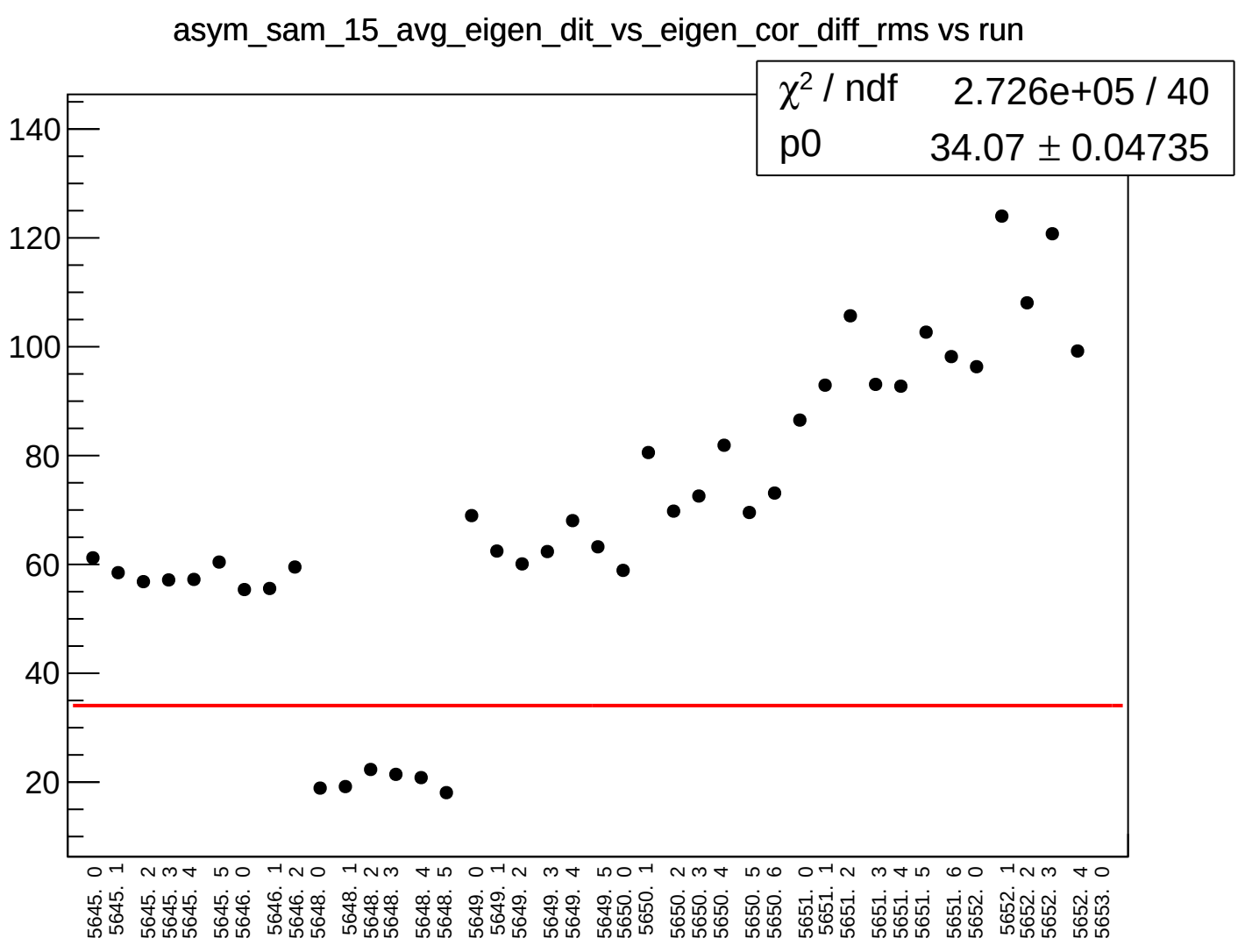

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1057 / 40
p0 0.0005157 ± 5.804e−07
0.56
0.54
0.52
0.5
0.48
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

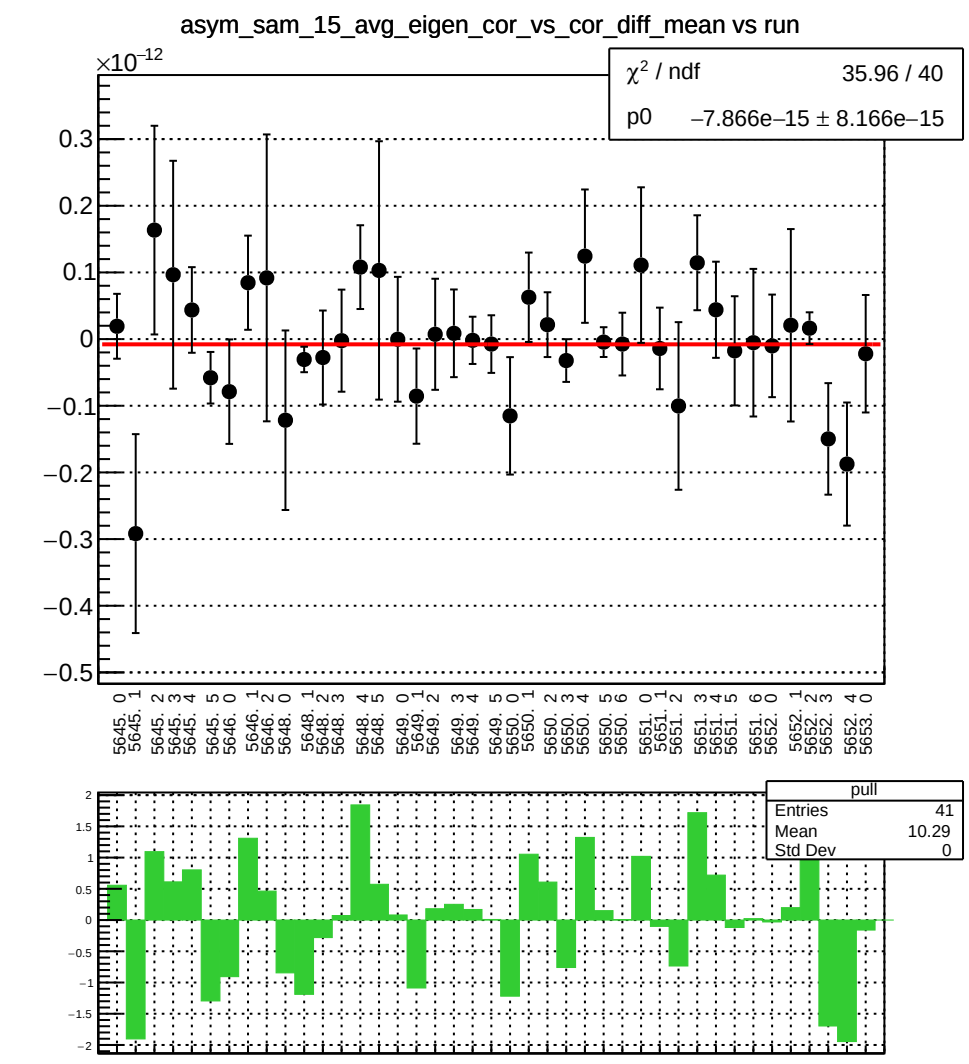

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.58 / 40
p0 0.03086 ± 0.06696
pull
Entries 41
Mean 72.69
Std Dev 0
pull1D
Entries 41
Mean −0.04943
Std Dev 1.076

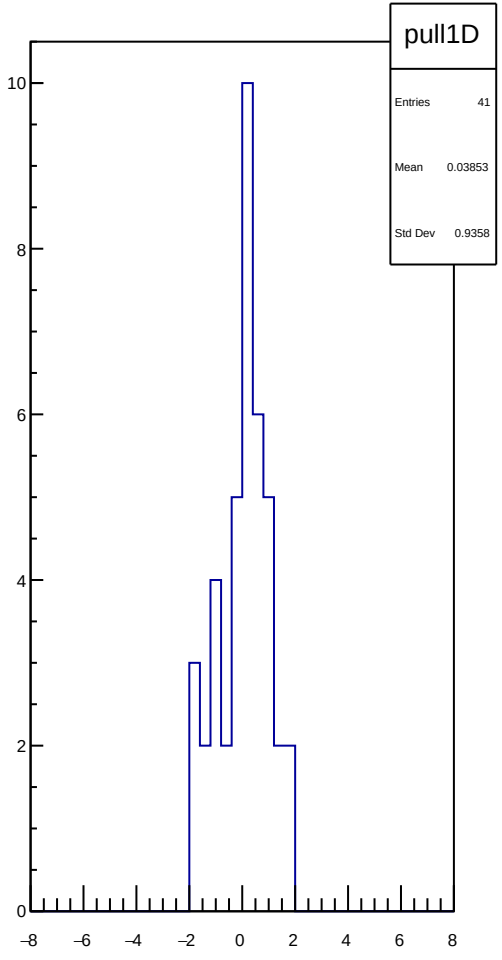

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.726e+05 / 40
p0 34.07 ± 0.04735
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

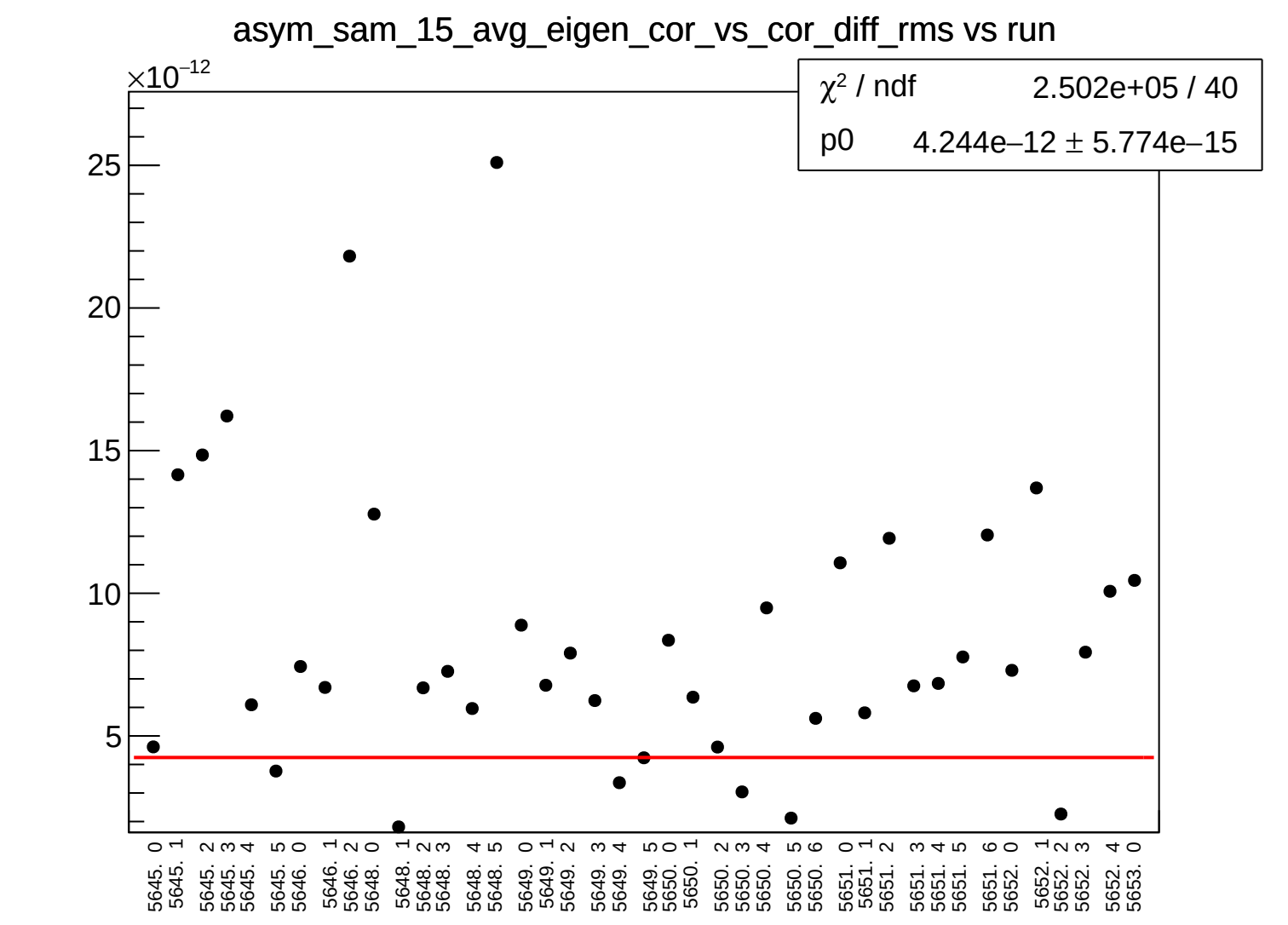

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.58 / 40
p0 0.03086 ± 0.06696
pull
Entries 41
Mean 72.69
Std Dev 0

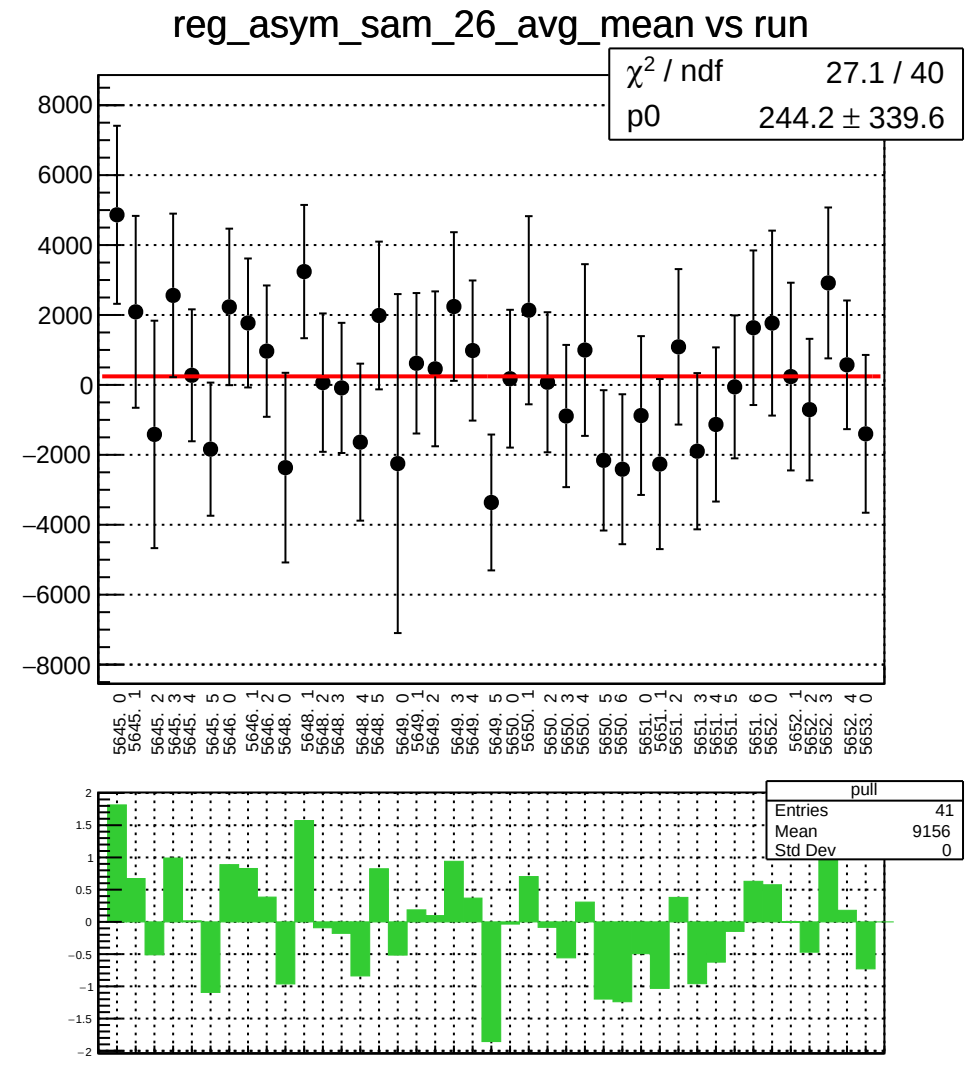

pull1D
Entries 41
Mean −0.04943
Std Dev 1.076

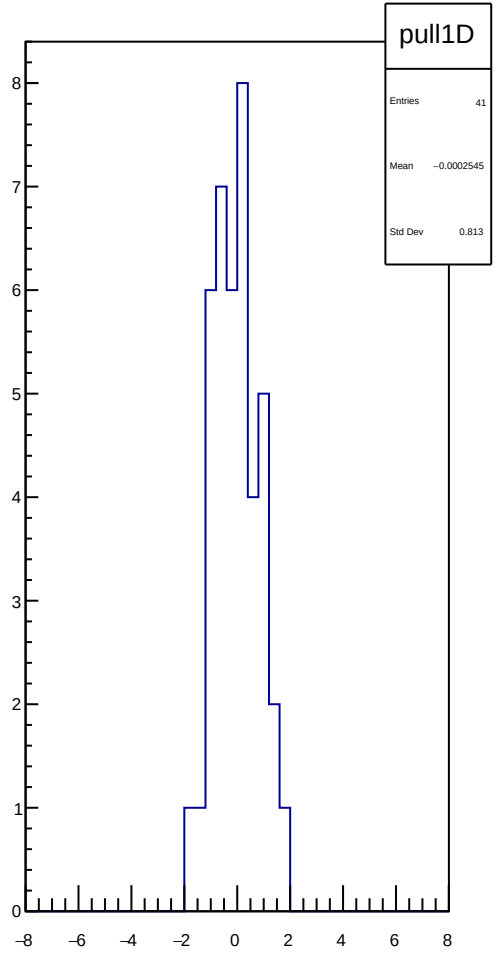

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.726e+05 / 40
p0 34.07 ± 0.04735
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

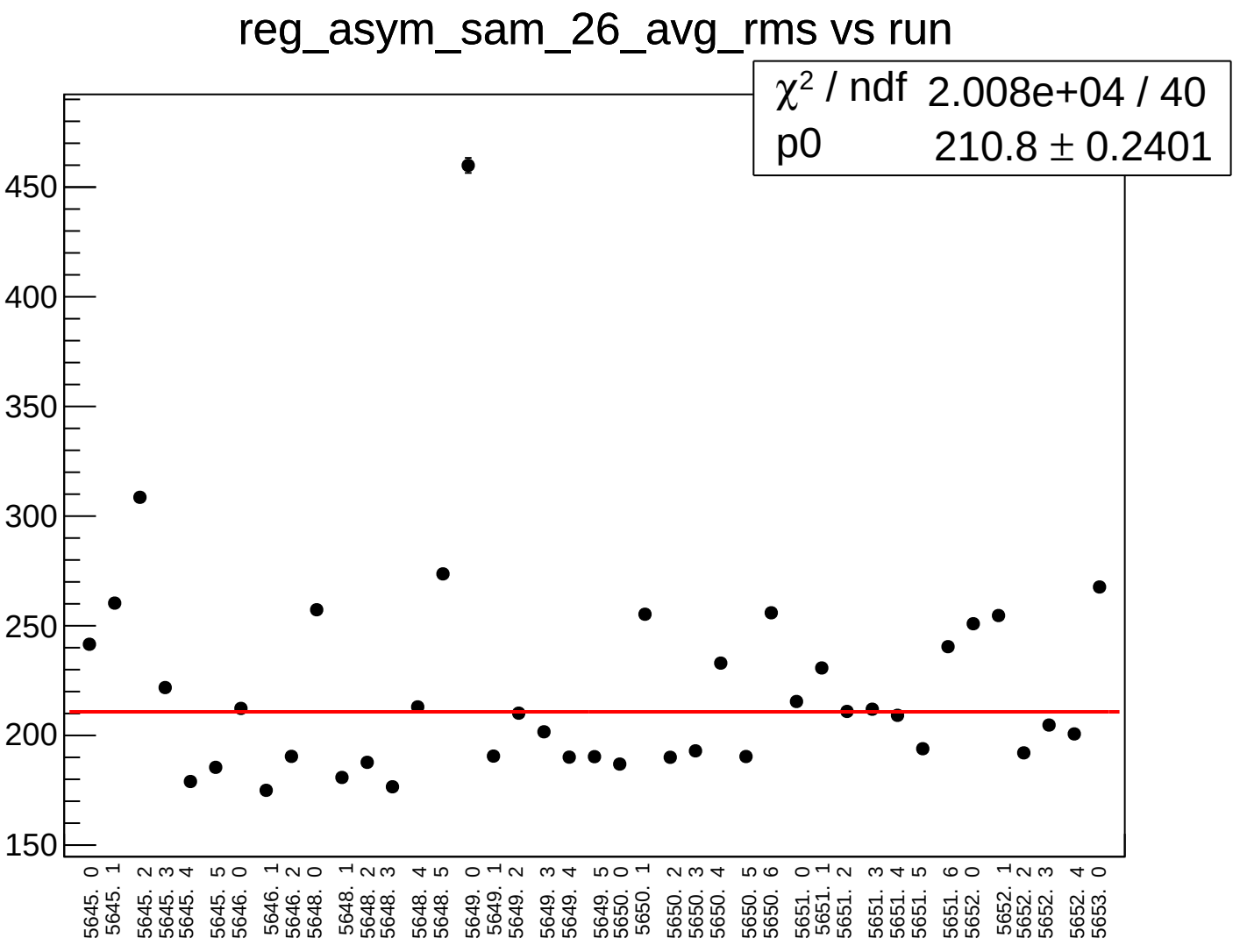

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 35.96 / 40
p0 −7.866e−15 ± 8.166e−15
pull
Entries 41
Mean 10.29
Std Dev 0

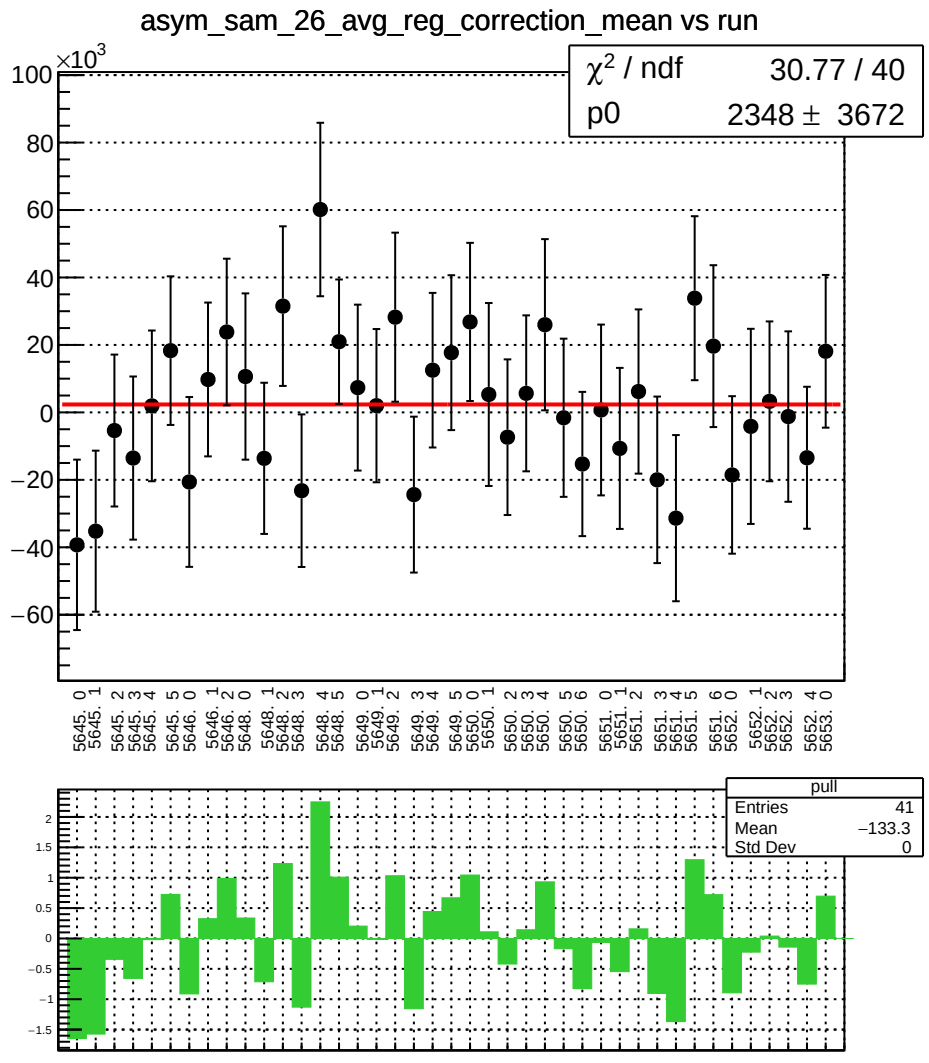

pull1D
Entries 41
Mean 0.03853
Std Dev 0.9358

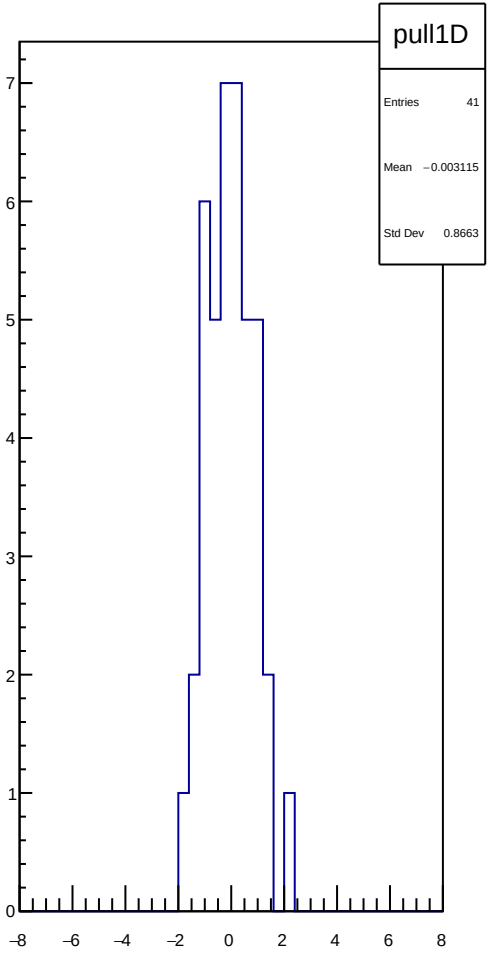

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.502e+05 / 40
p0 4.244e−12 ± 5.774e−15
25
20
15
10
5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

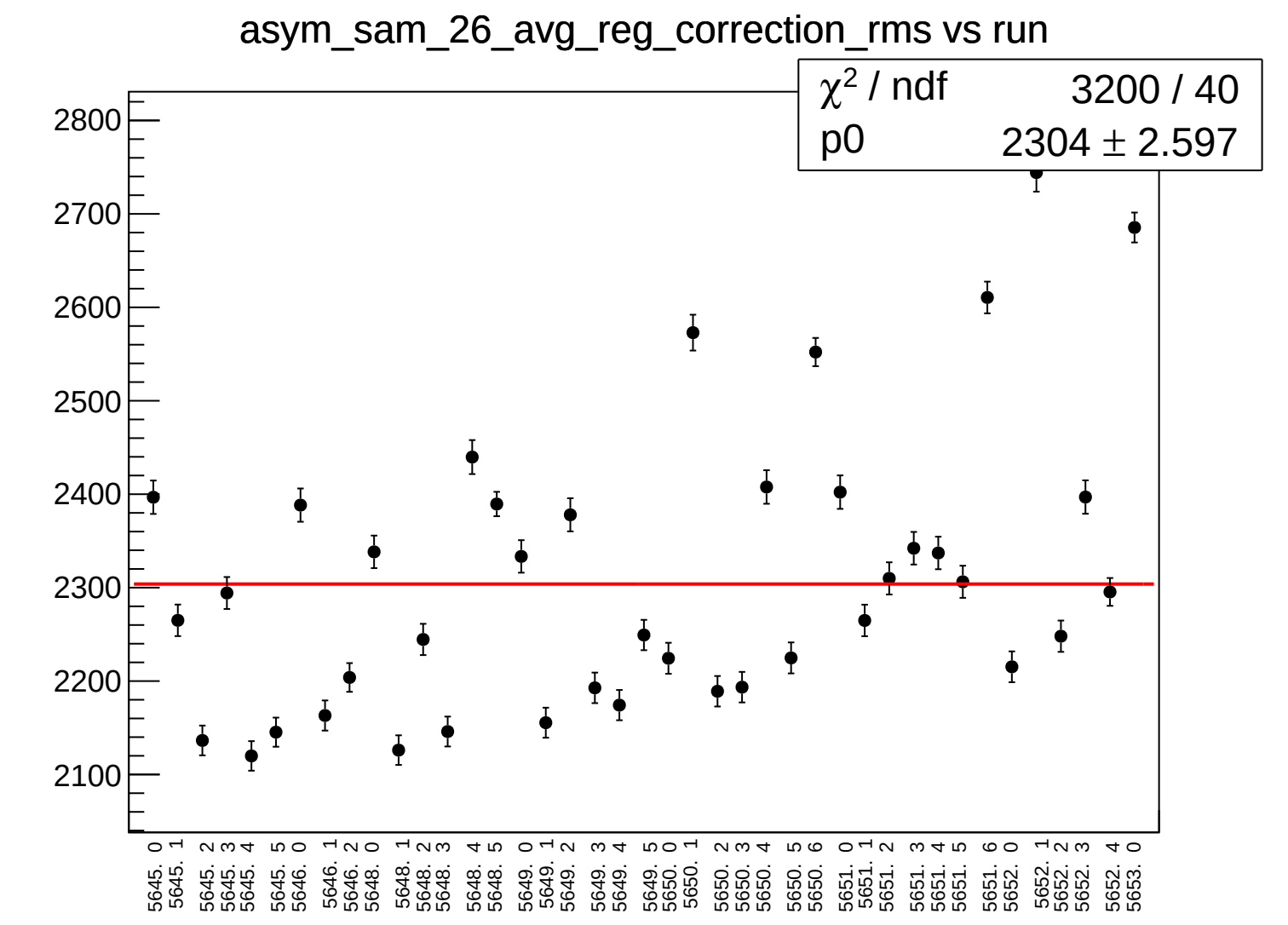

reg_asym_sam_26_avg_mean vs run
χ² / ndf 27.1 / 40
p0 244.2 ± 339.6
pull
Entries 41
Mean 9156
Std Dev 0

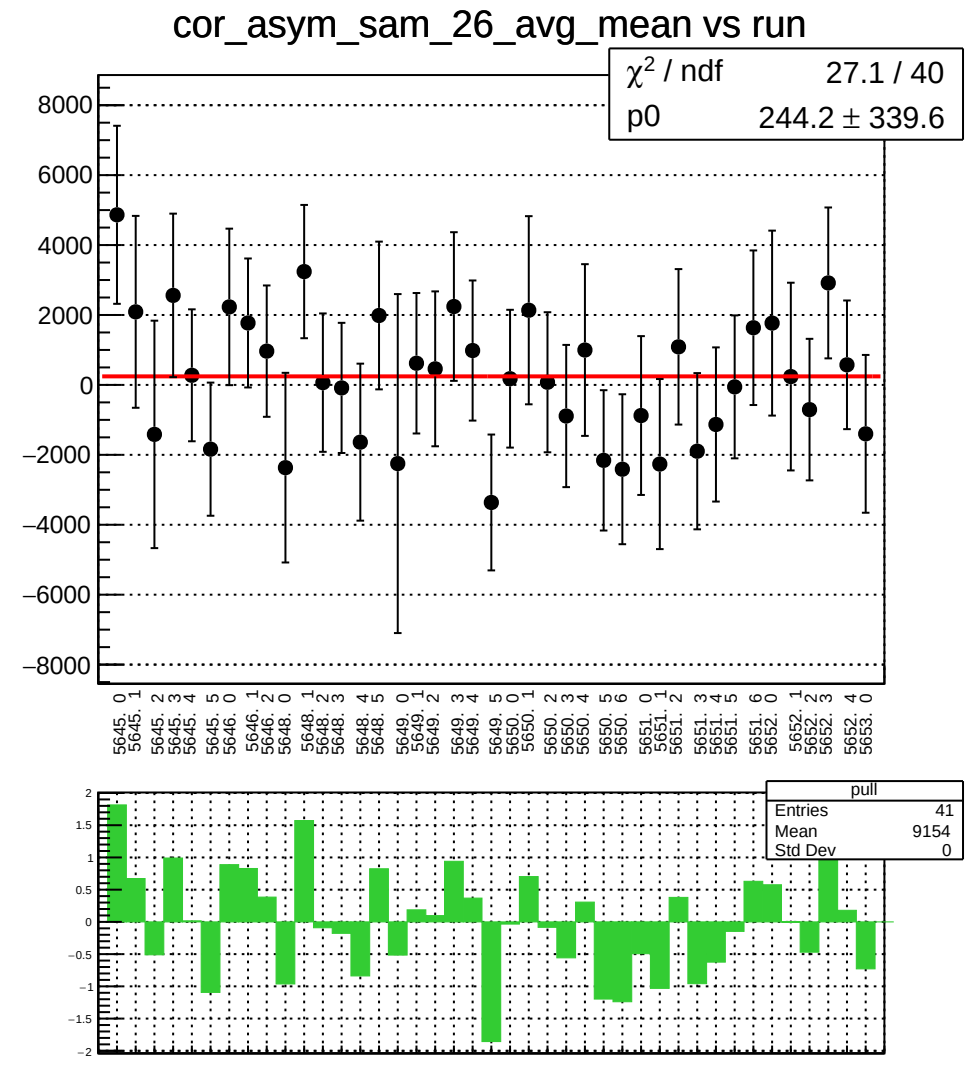

pull1D
Entries 41
Mean −0.0002545
Std Dev 0.813

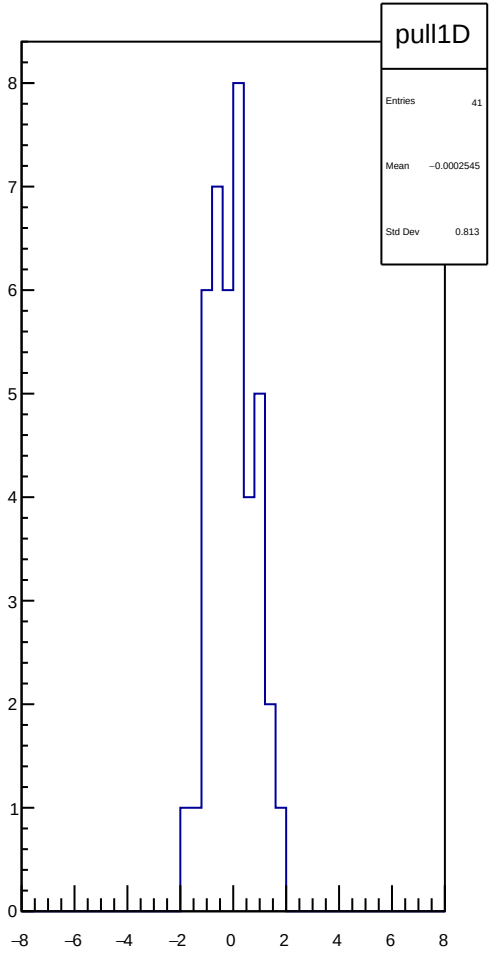

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.008e+04 / 40
p0 210.8 ± 0.2401
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

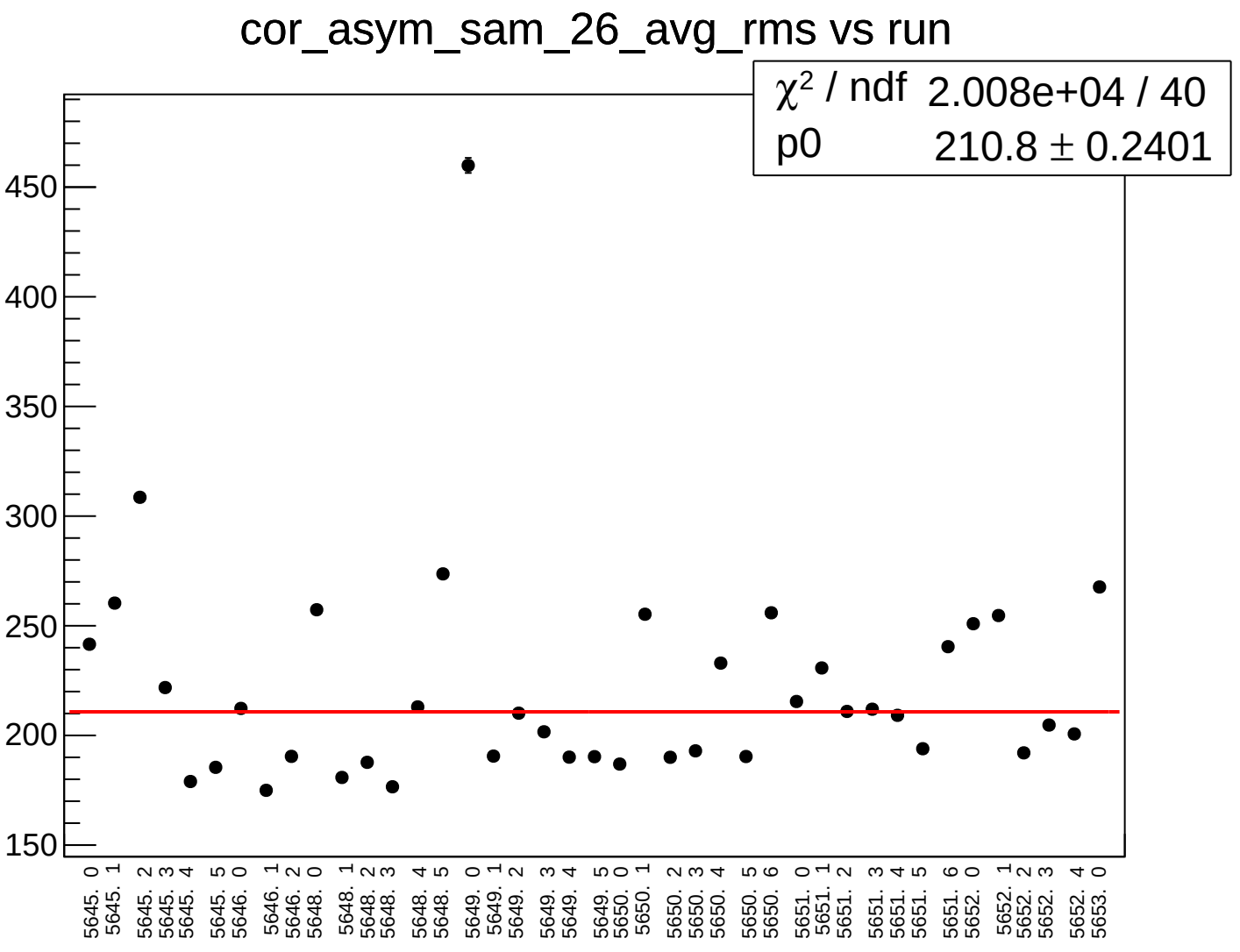

asym_sam_26_avg_reg_correction_mean vs run
×10^3
χ² / ndf 30.77 / 40
p0 2348 ± 3672
pull
Entries 41
Mean −133.3
Std Dev 0

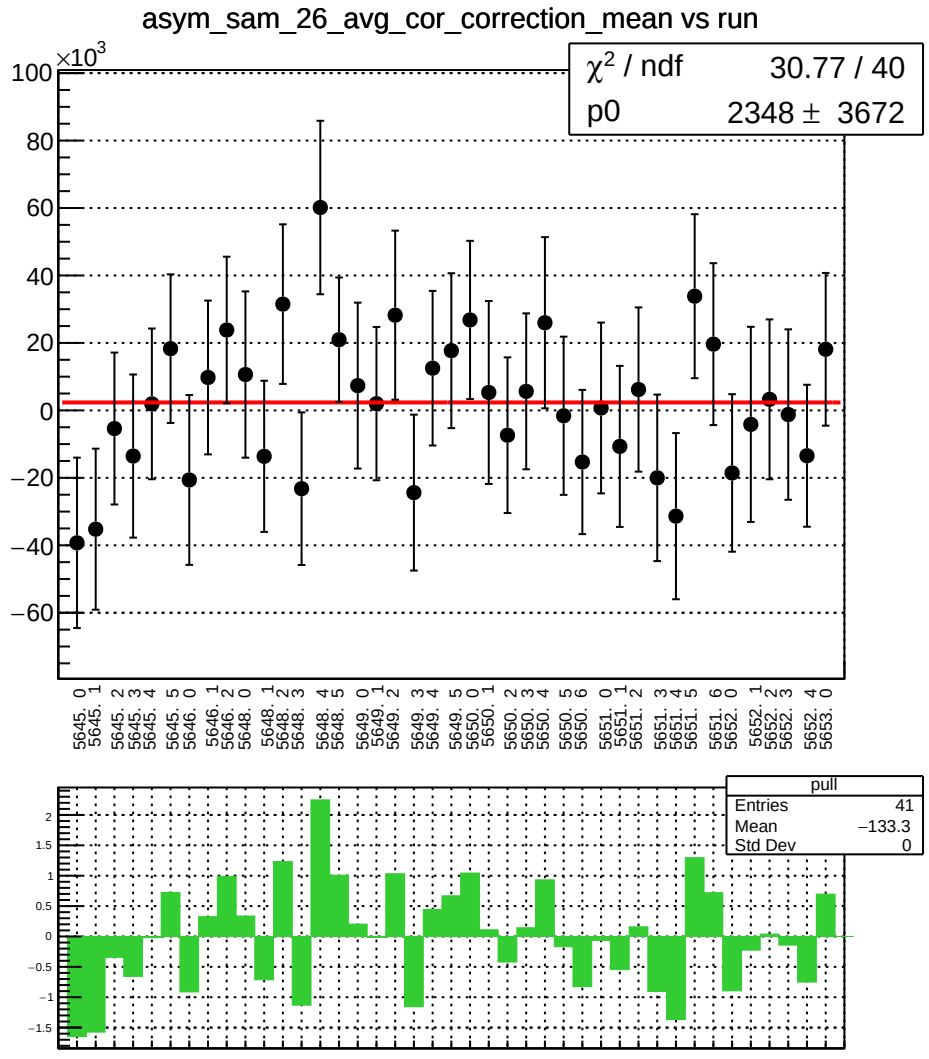

pull1D
Entries 41
Mean −0.003115
Std Dev 0.8663

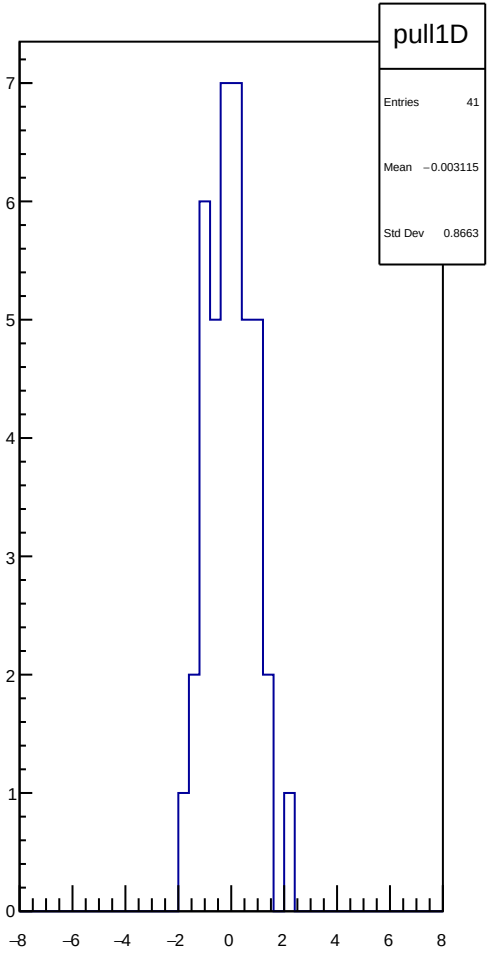

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3200 / 40
p0 2304 ± 2.597
2800
2700
2600
2500
2400
2300
2200
2100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

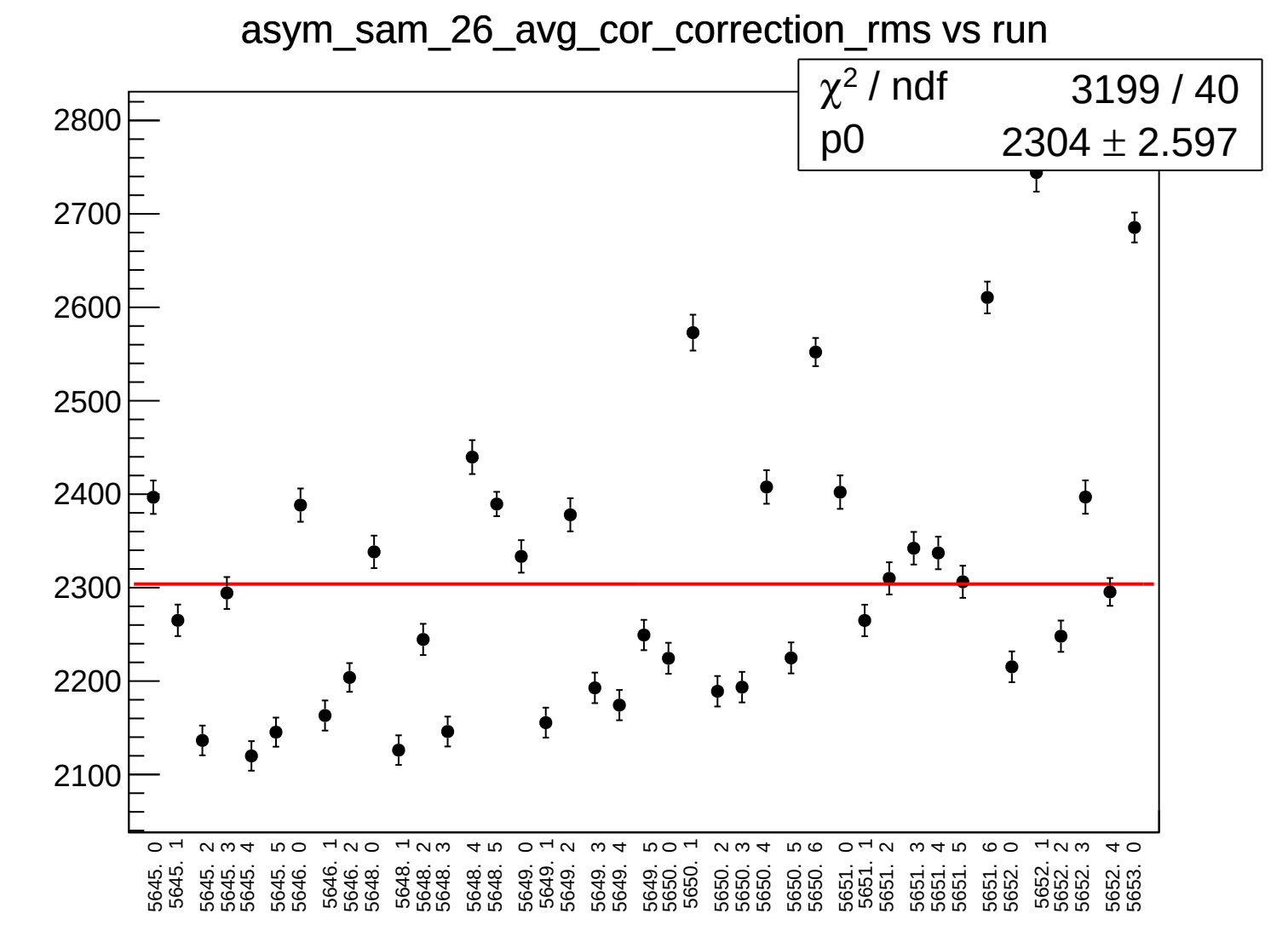

cor_asym_sam_26_avg_mean vs run
χ² / ndf 27.1 / 40
p0 244.2 ± 339.6
pull
Entries 41
Mean 9154
Std Dev 0

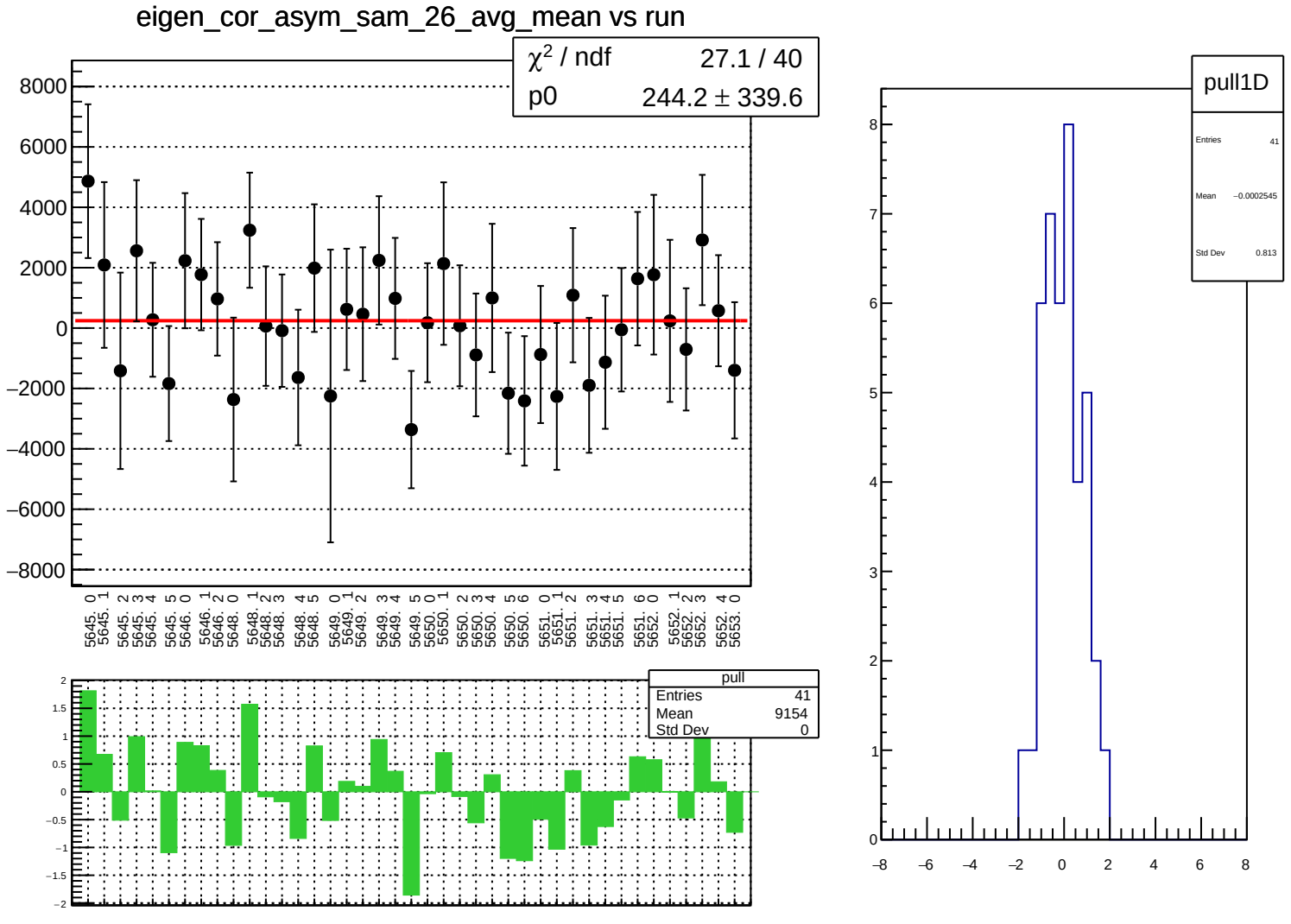

pull1D
Entries 41
Mean −0.0002545
Std Dev 0.813

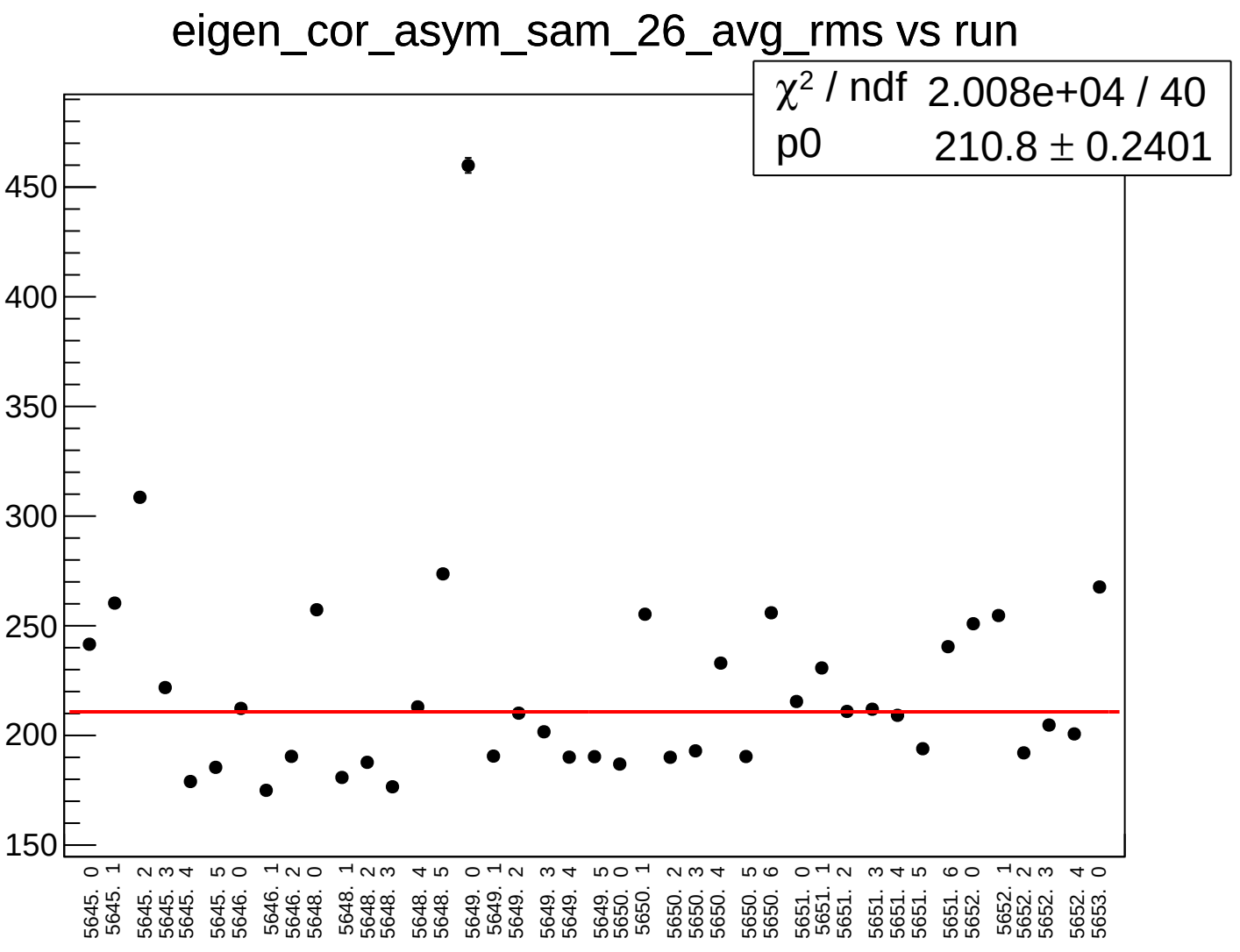

cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.008e+04 / 40
p0 210.8 ± 0.2401
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

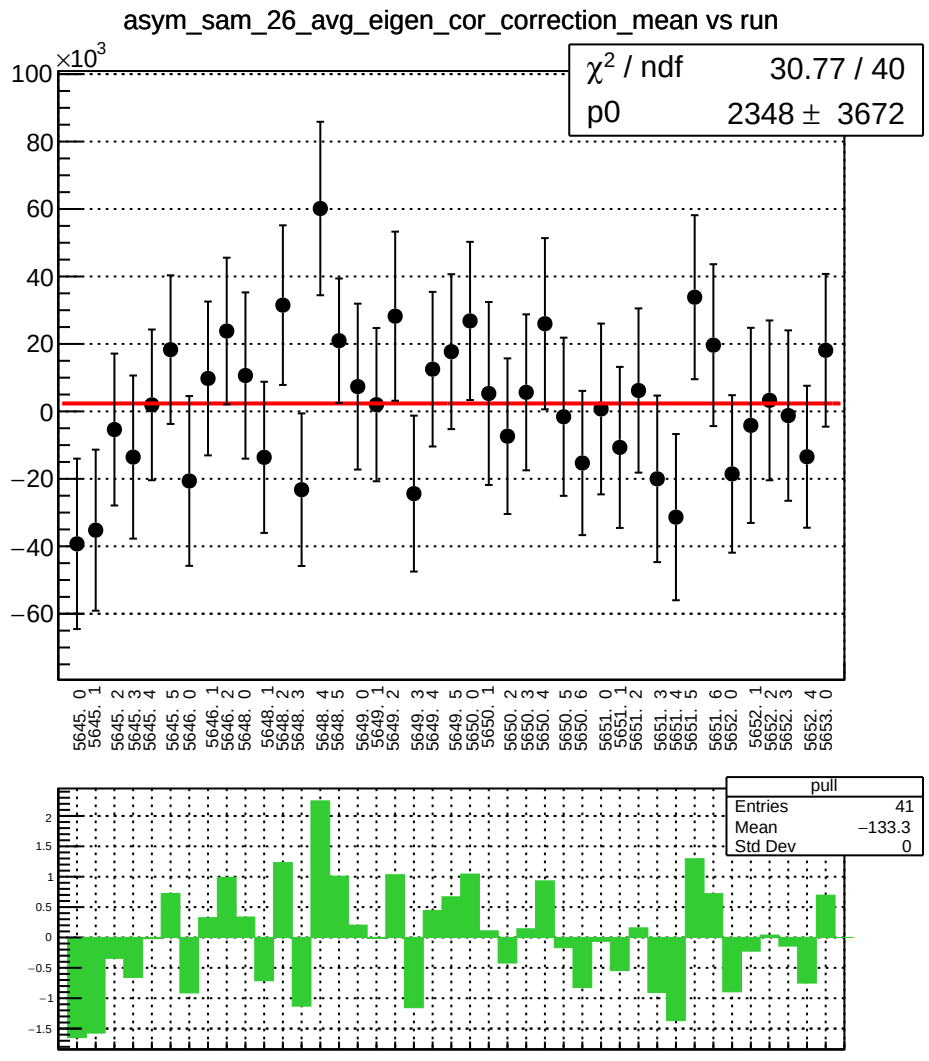

asym_sam_26_avg_cor_correction_mean vs run
×10^3
χ² / ndf 30.77 / 40
p0 2348 ± 3672
pull
Entries 41
Mean −133.3
Std Dev 0

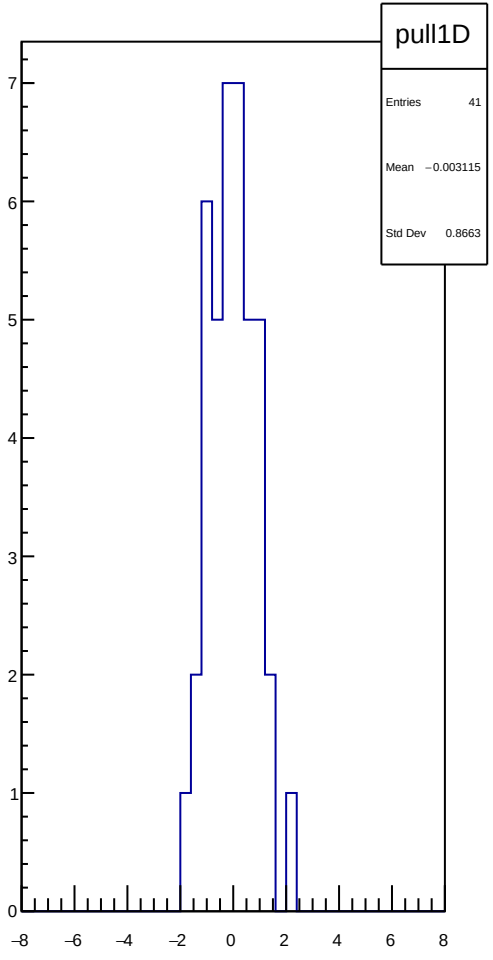

pull1D
Entries 41
Mean −0.003115
Std Dev 0.8663

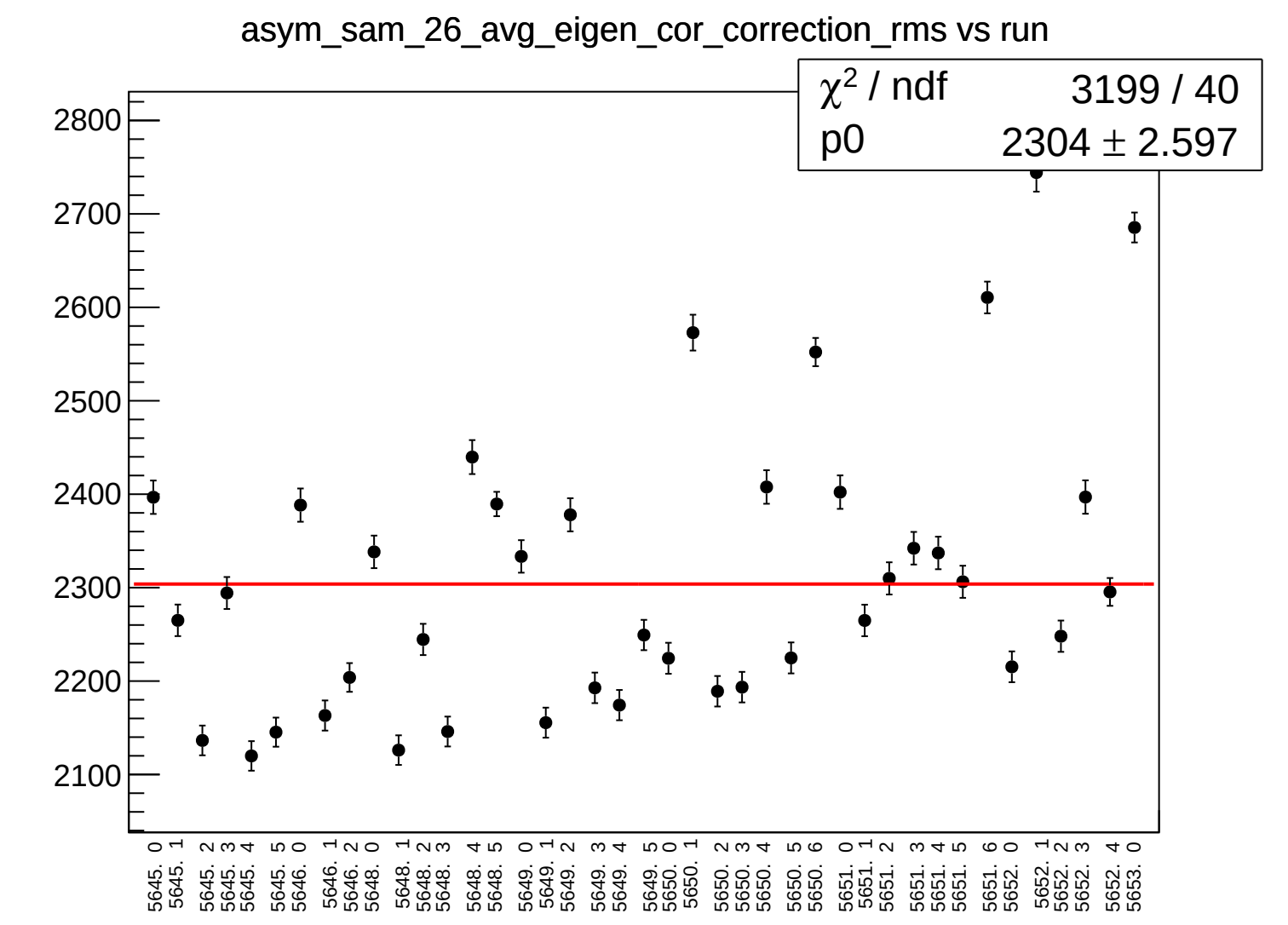

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3199 / 40
p0 2304 ± 2.597
2800
2700
2600
2500
2400
2300
2200
2100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

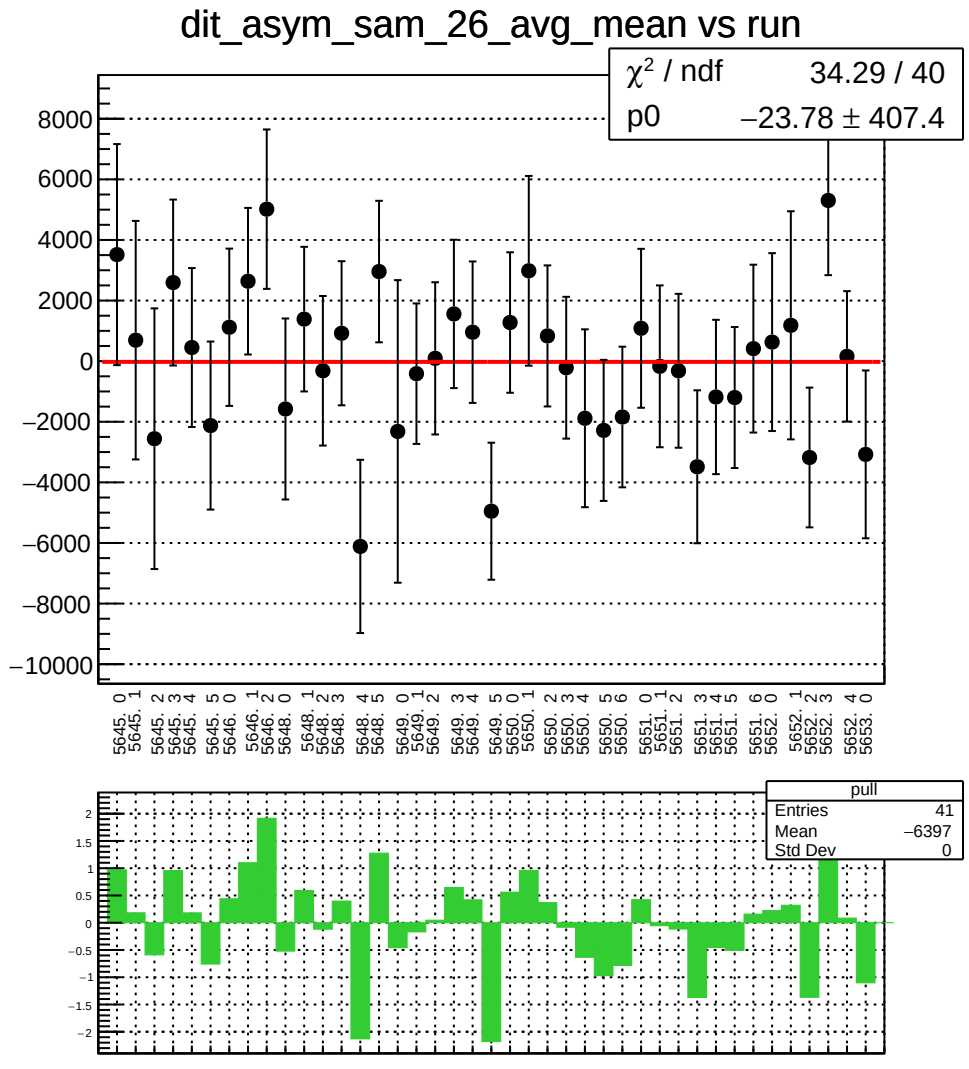

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 27.1 / 40
p0 244.2 ± 339.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9154
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.0002545
Std Dev 0.813
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

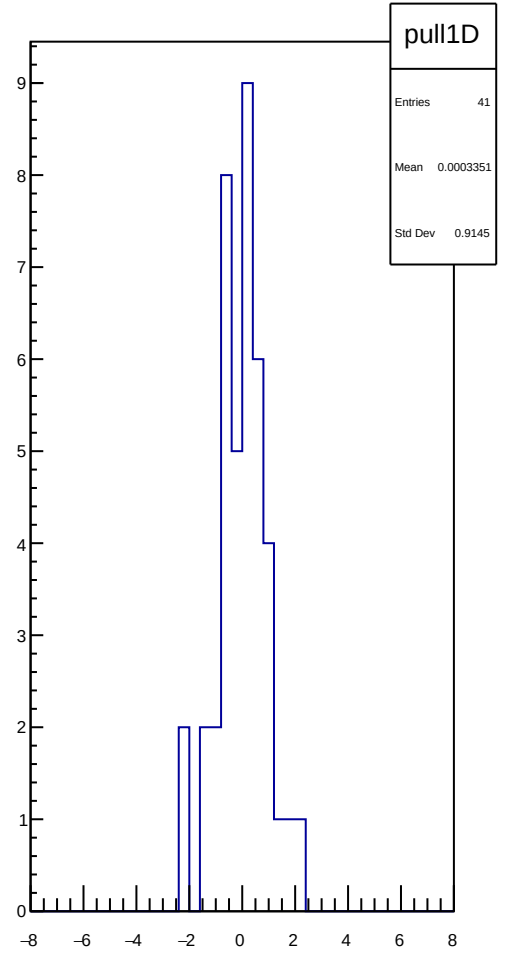

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.008e+04 / 40
p0 210.8 ± 0.2401
450
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

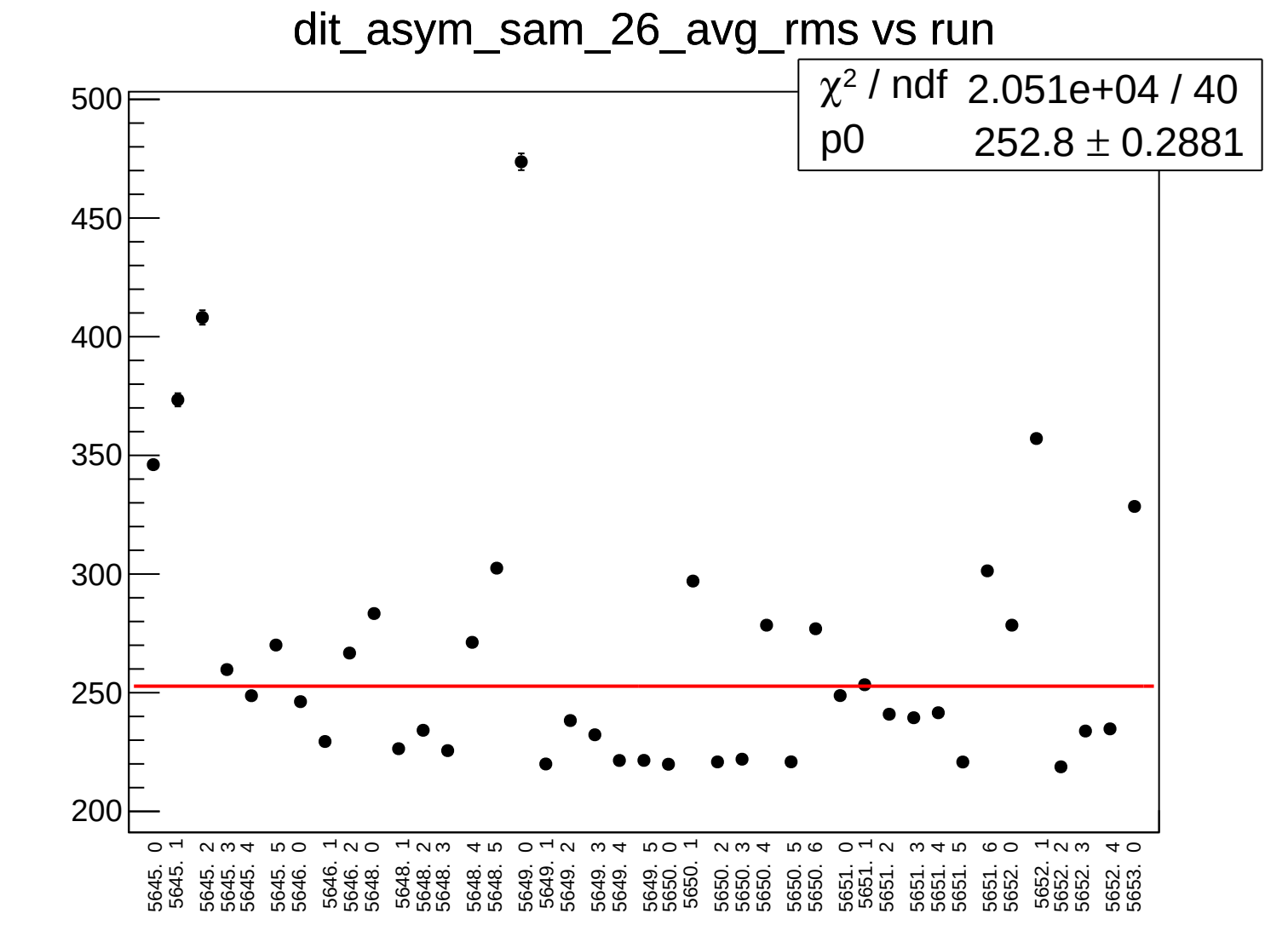

asym_sam_26_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.77 / 40
p0 2348 ± 3672
pull
Entries 41
Mean −133.3
Std Dev 0

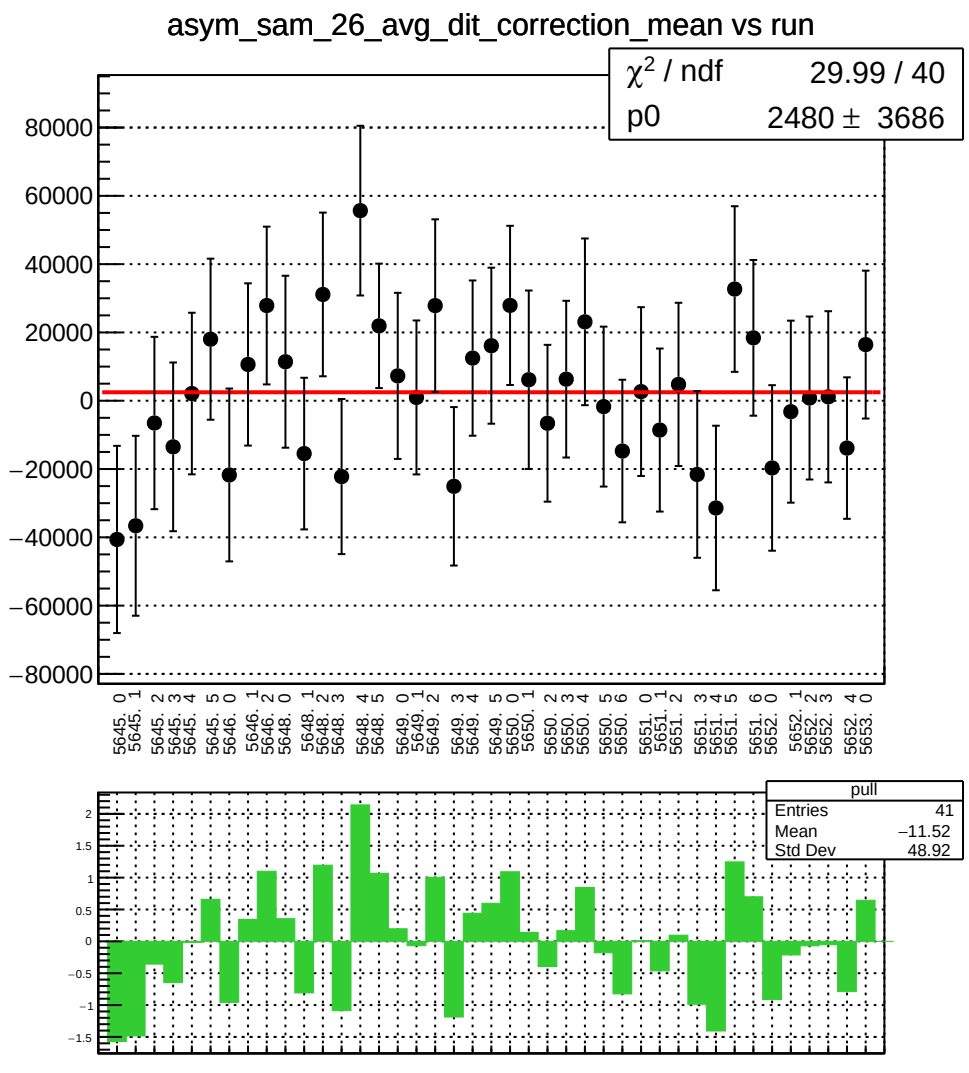

pull1D
Entries 41
Mean −0.003115
Std Dev 0.8663

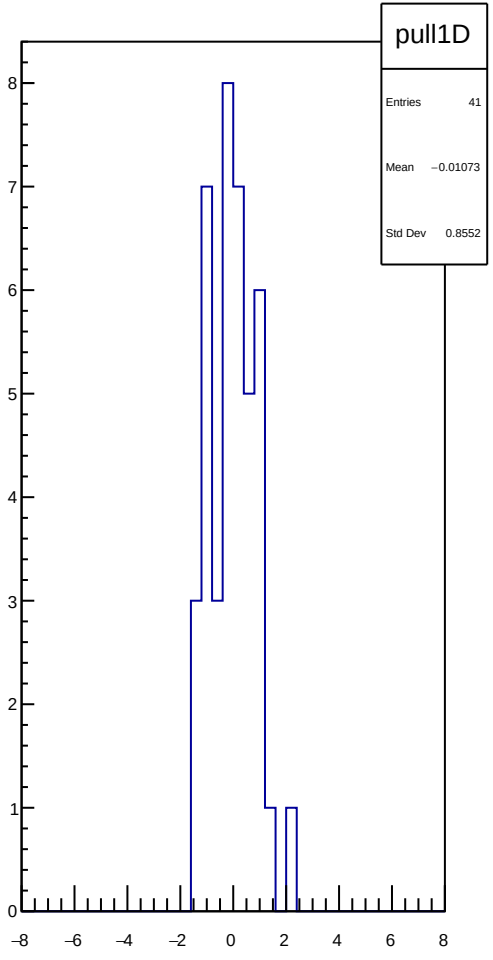

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3199 / 40
p0 2304 ± 2.597
2800
2700
2600
2500
2400
2300
2200
2100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

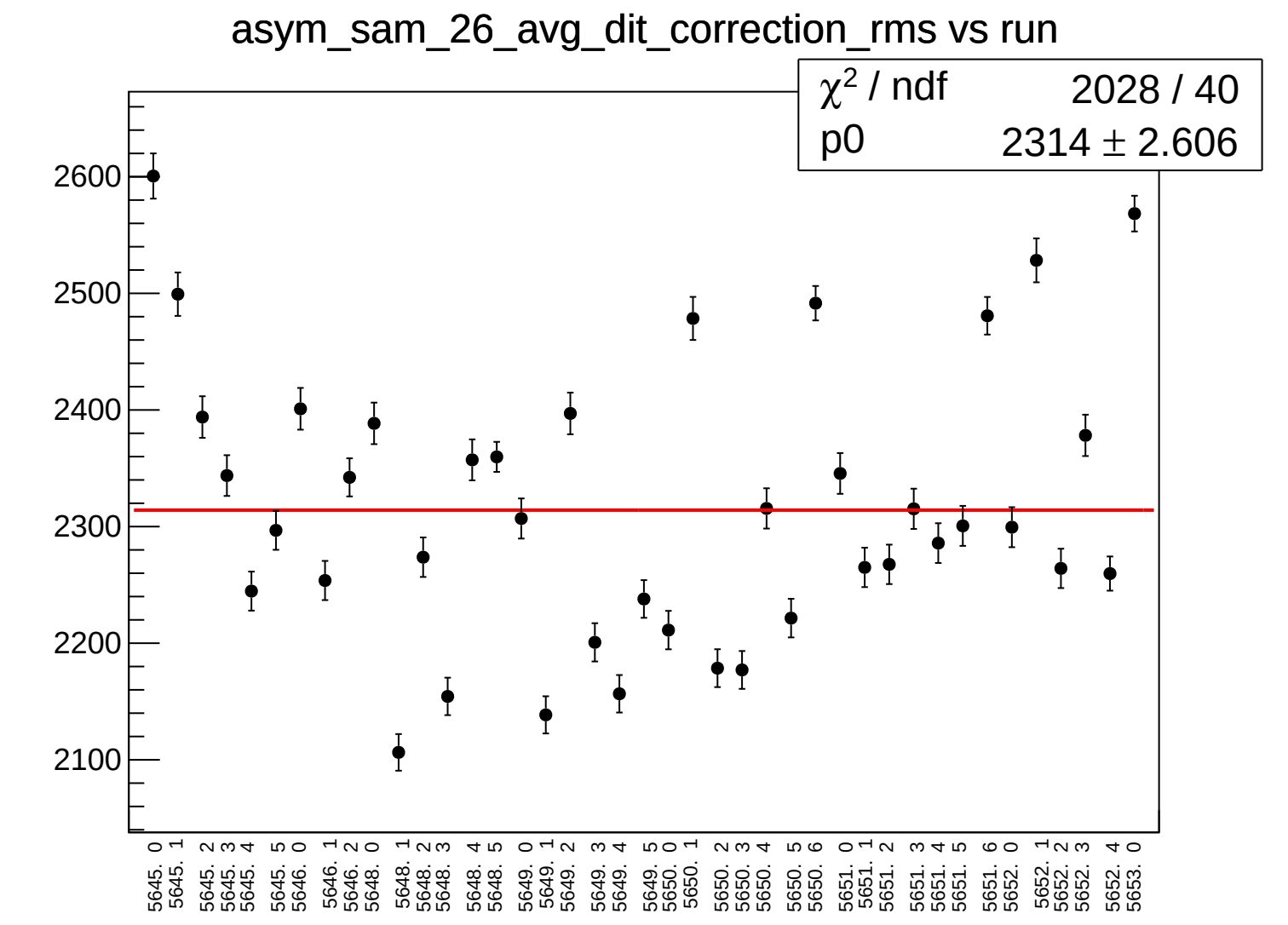

dit_asym_sam_26_avg_mean vs run
χ² / ndf 34.29 / 40
p0 −23.78 ± 407.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6397
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

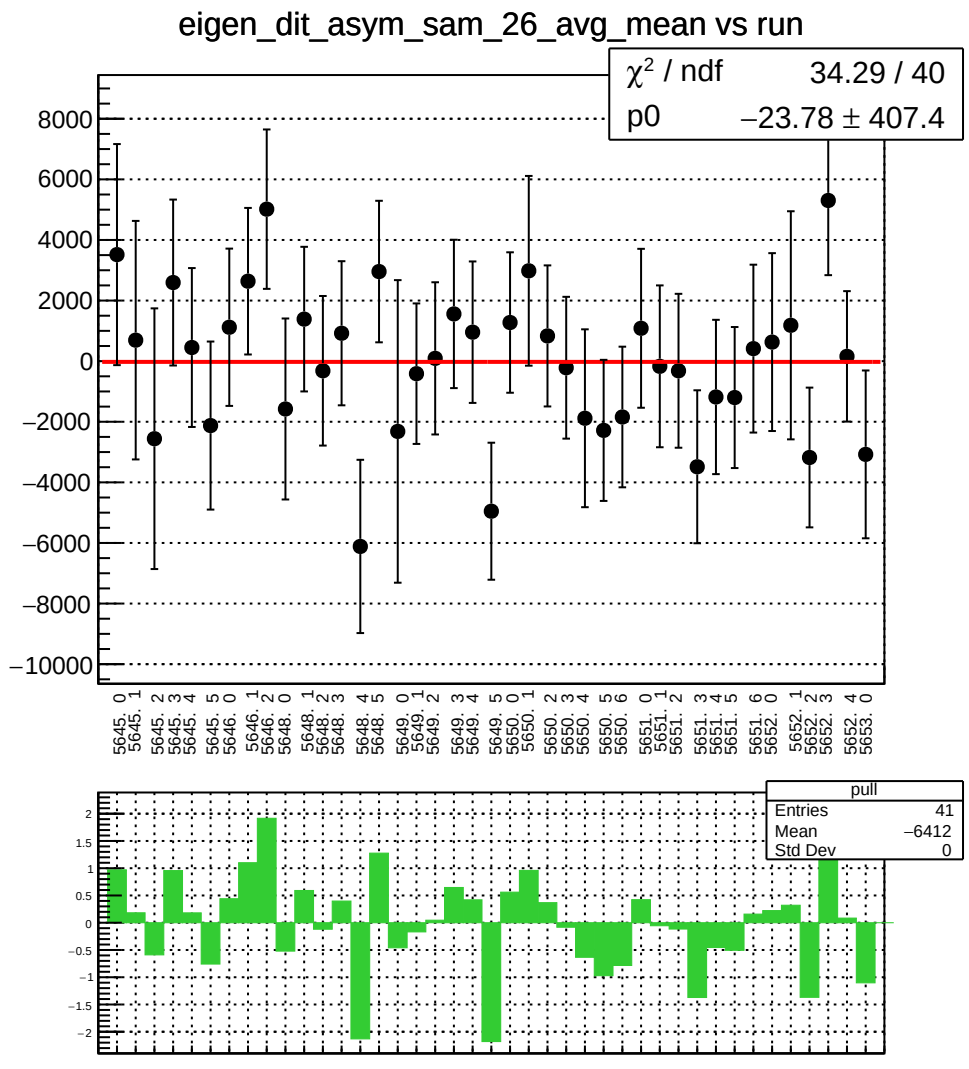

pull1D
Entries 41
Mean 0.0003351
Std Dev 0.9145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

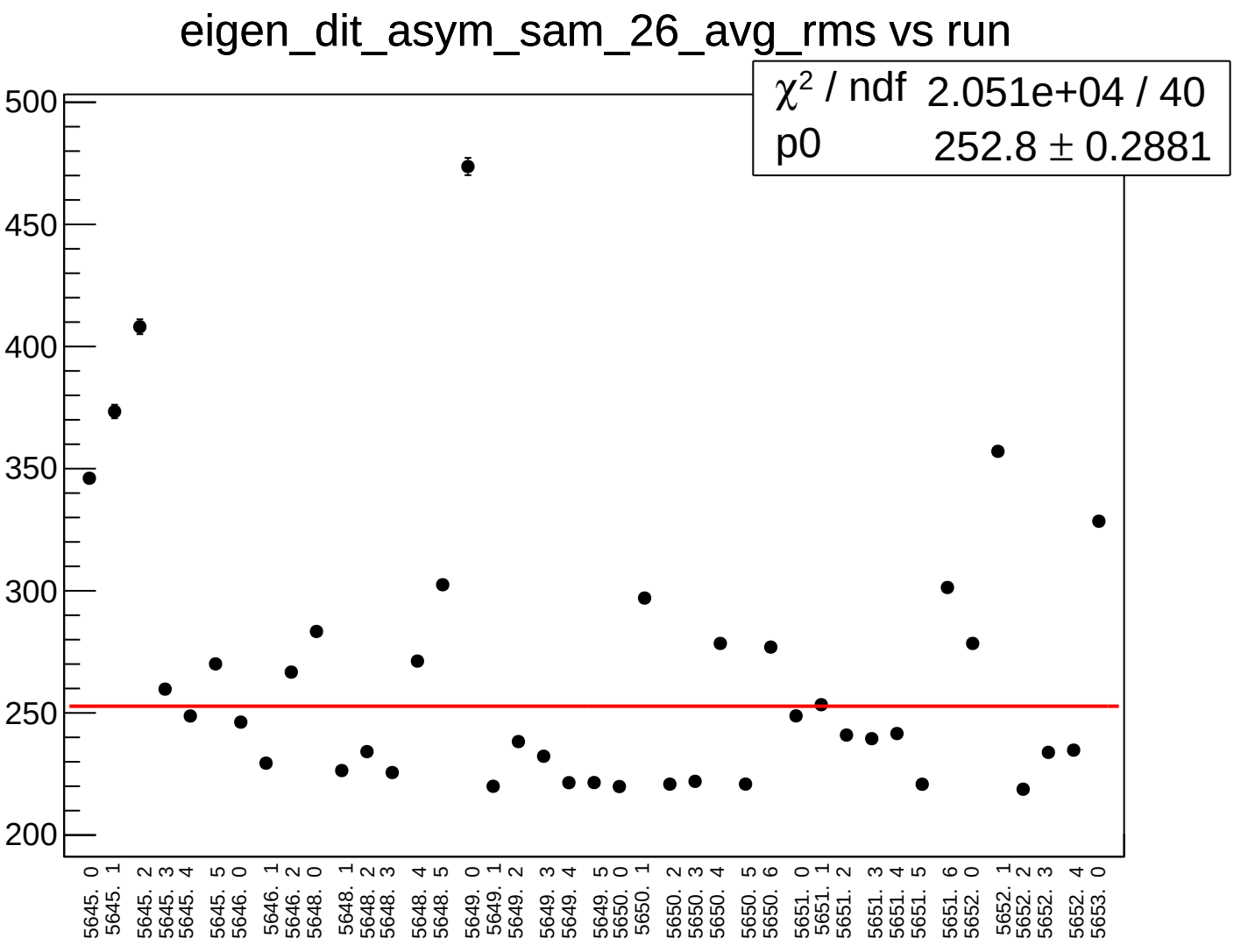

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.051e+04 / 40
p0 252.8 ± 0.2881
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

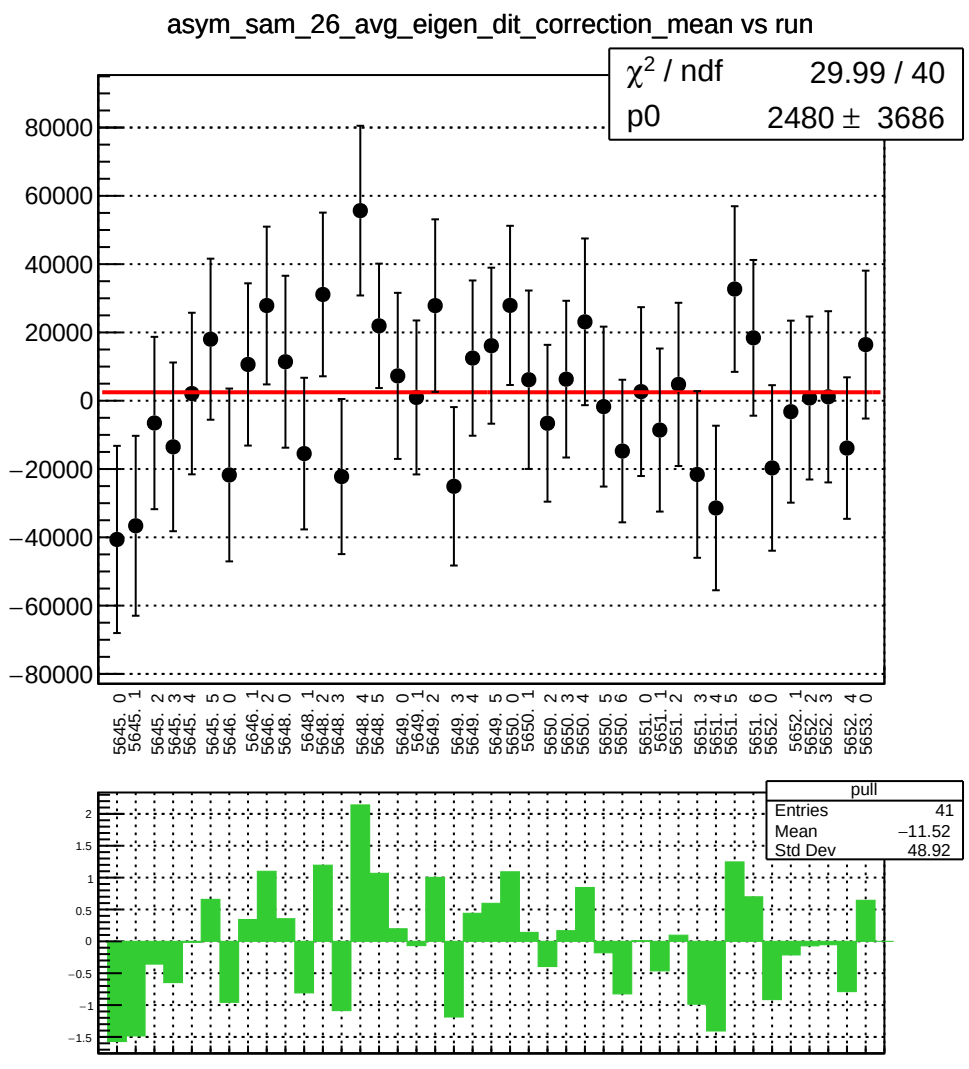

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 29.99 / 40
p0 2480 ± 3686
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.52
Std Dev 48.92
2
1.5
1
0.5
0
−0.5
−1
−1.5

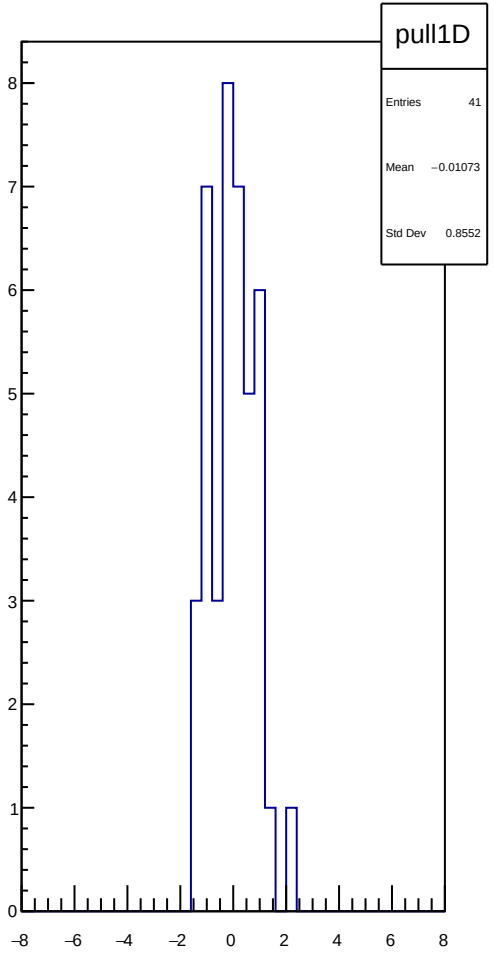

pull1D
Entries 41
Mean −0.01073
Std Dev 0.8552
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

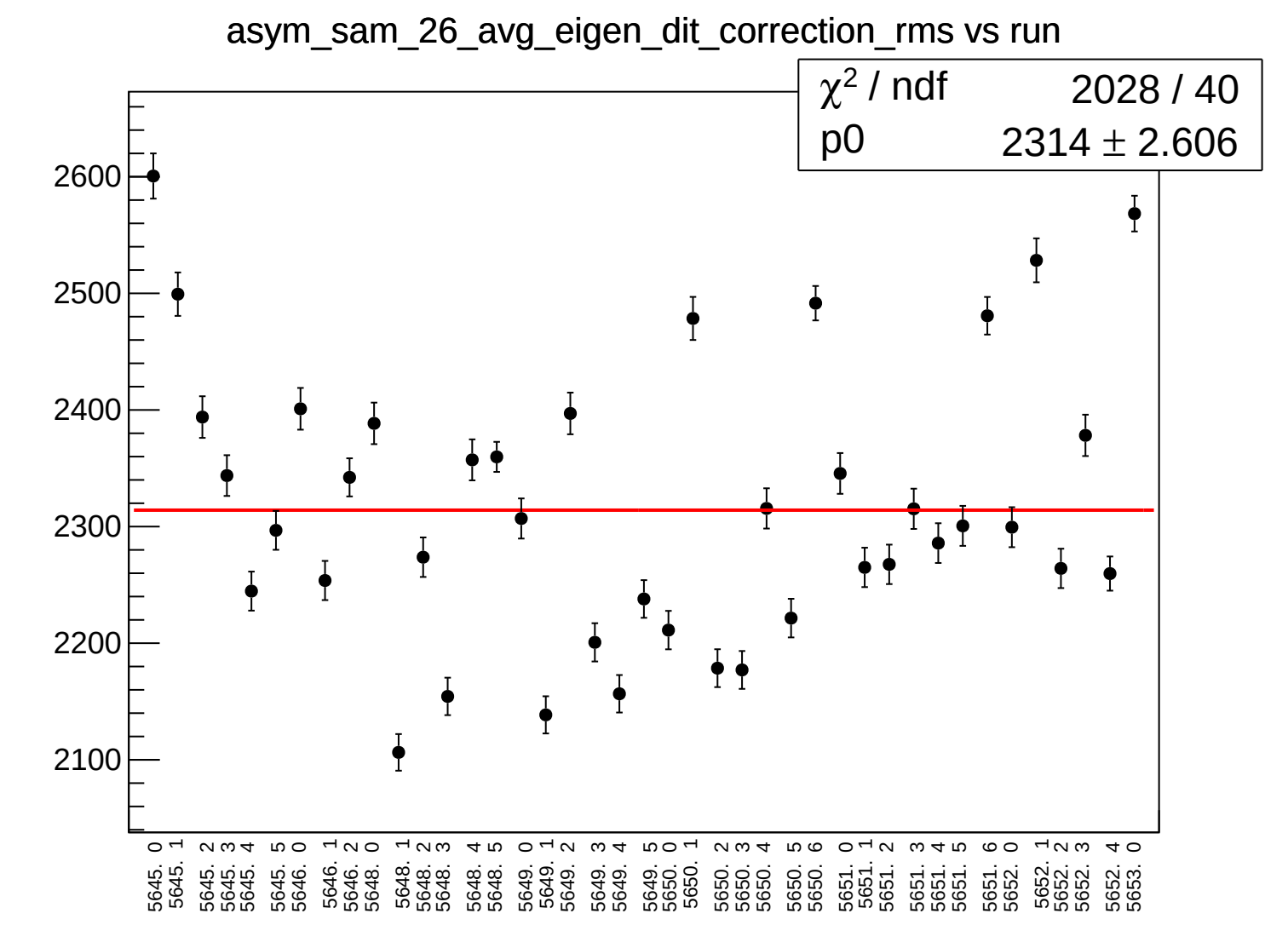

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2028 / 40
p0 2314 ± 2.606
2600
2500
2400
2300
2200
2100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

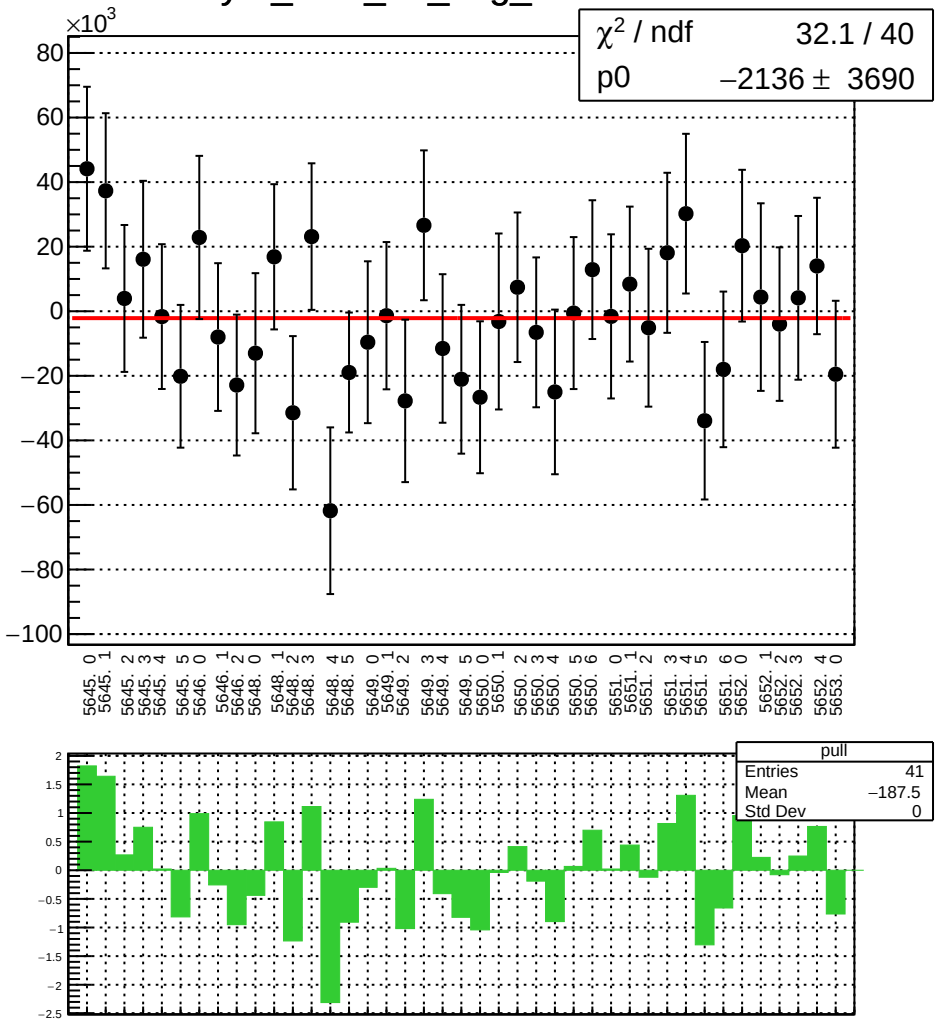

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 34.29 / 40
p0 −23.78 ± 407.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6412
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0003343
Std Dev 0.9145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

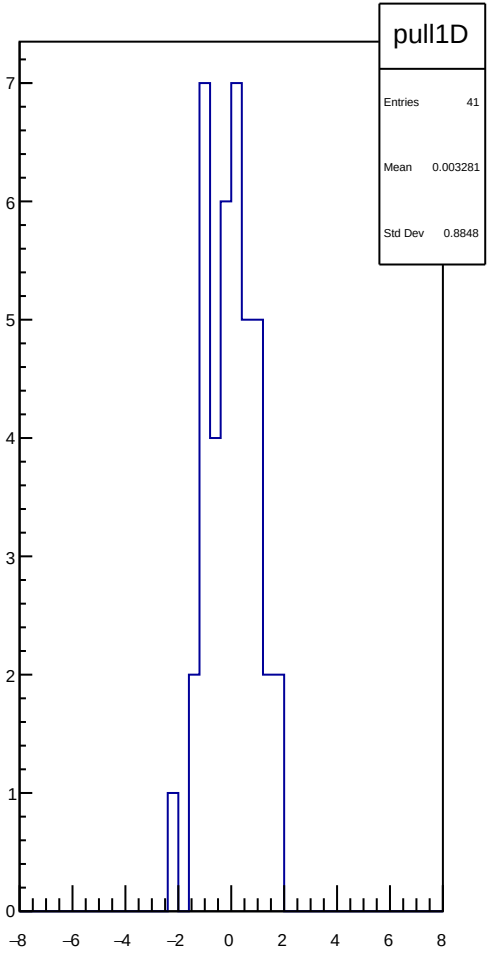

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.051e+04 / 40
p0 252.8 ± 0.2881
500
450
400
350
300
250
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

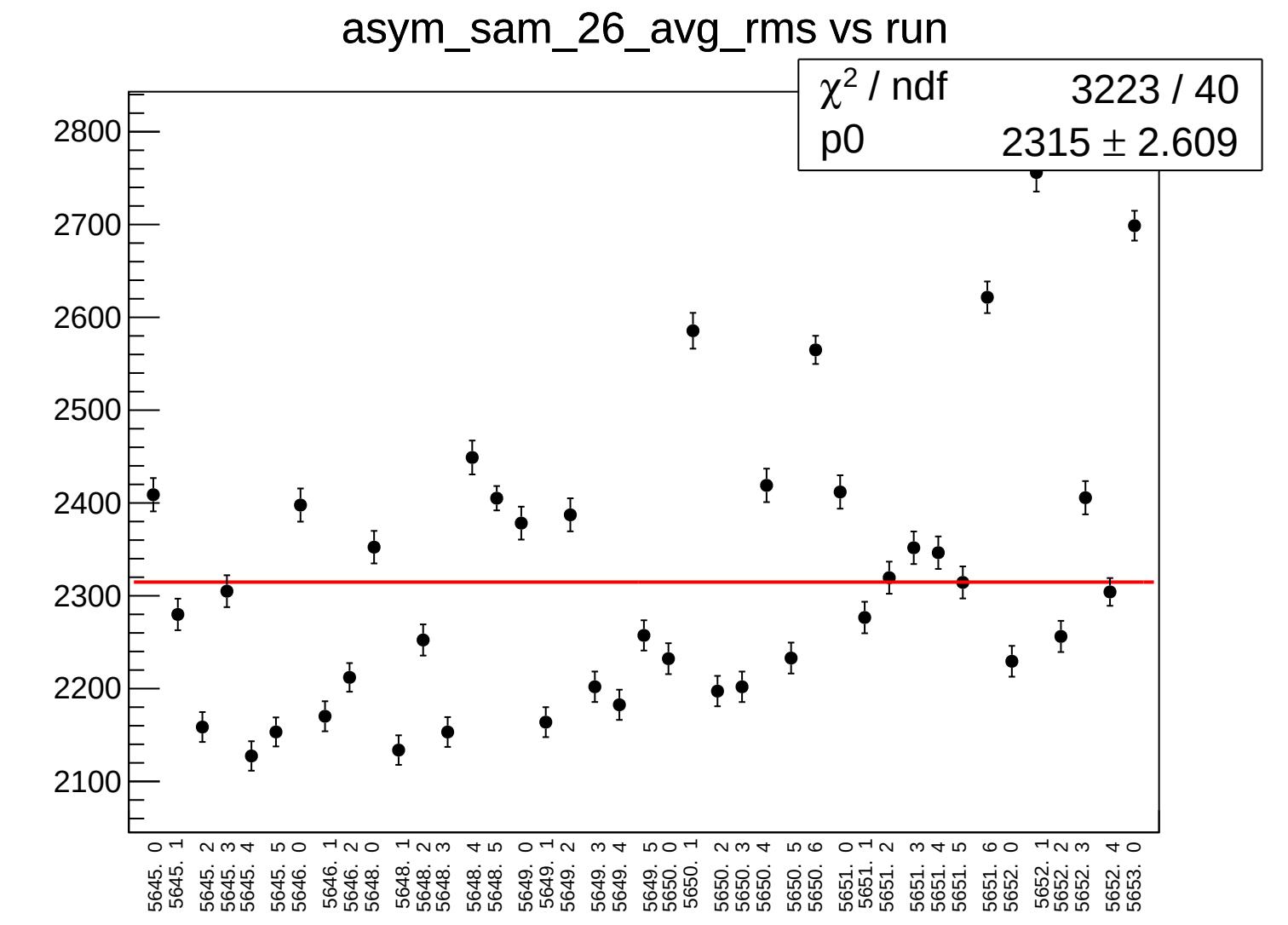

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 29.99 / 40
p0 2480 ± 3686
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.52
Std Dev 48.92
2
1.5
1
0.5
0
−0.5
−1
−1.5

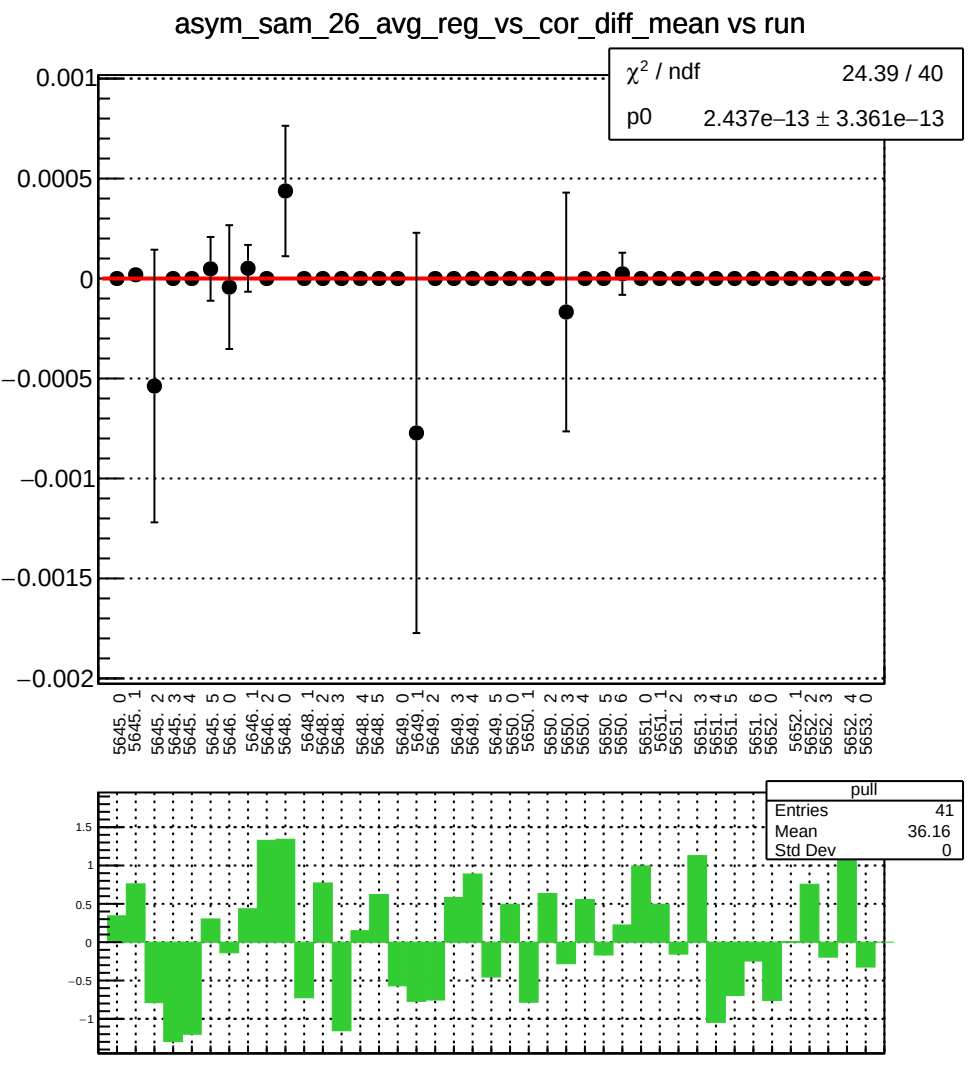

pull1D
Entries 41
Mean −0.01073
Std Dev 0.8552
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

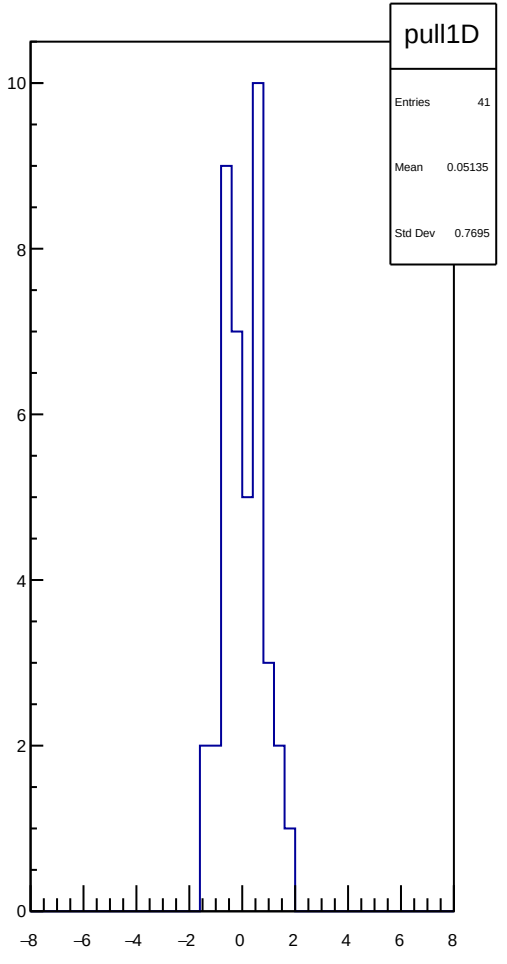

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2028 / 40
p0 2314 ± 2.606
2600
2500
2400
2300
2200
2100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

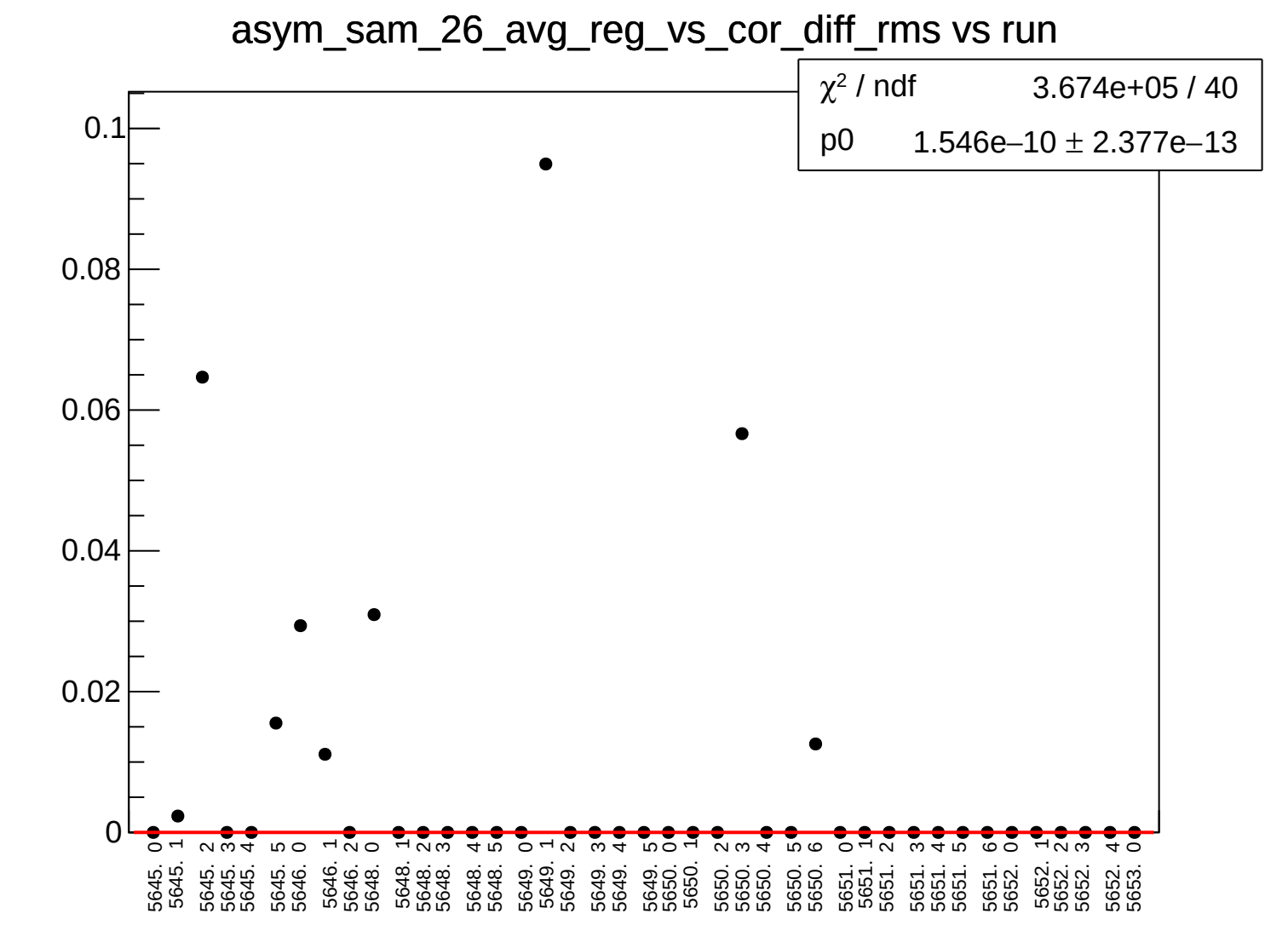

asym_sam_26_avg_mean vs run
×10^3
χ^2 / ndf 32.1 / 40
p0 −2136 ± 3690
pull
Entries 41
Mean −187.5
Std Dev 0

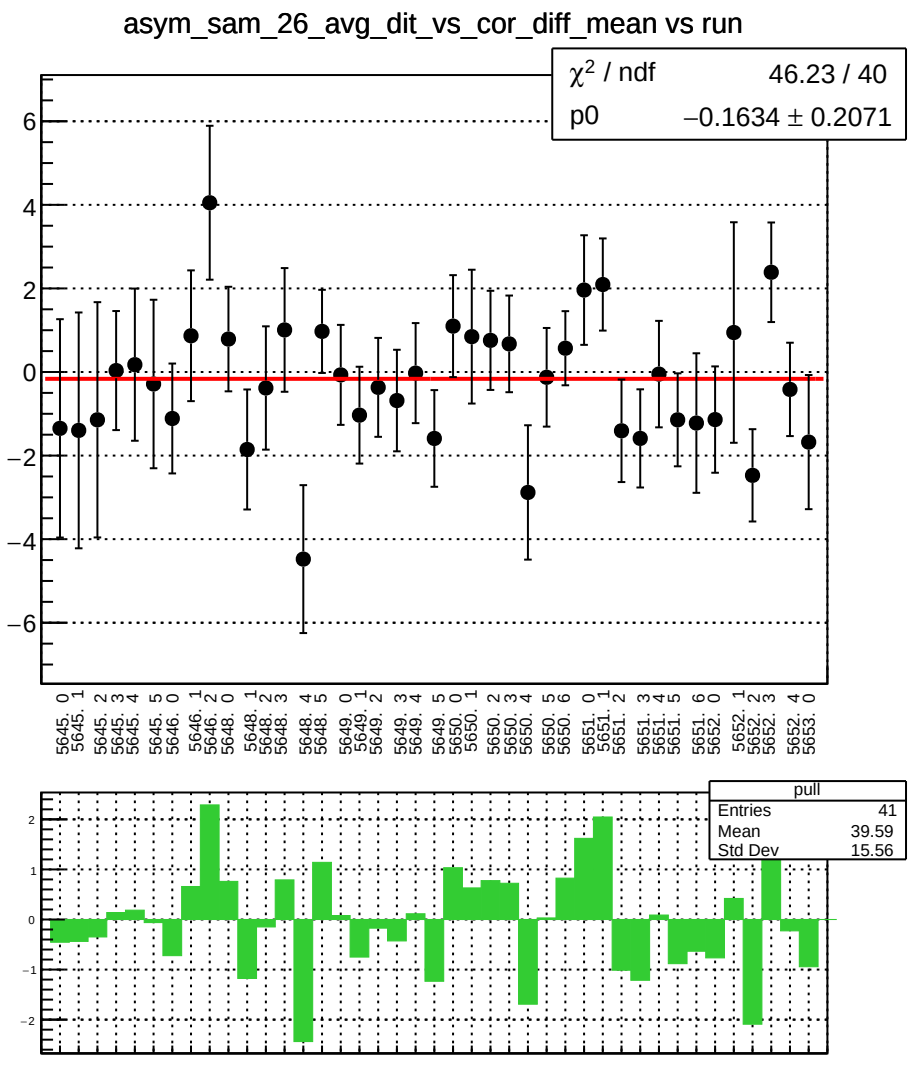

pull1D
Entries 41
Mean 0.003281
Std Dev 0.8848

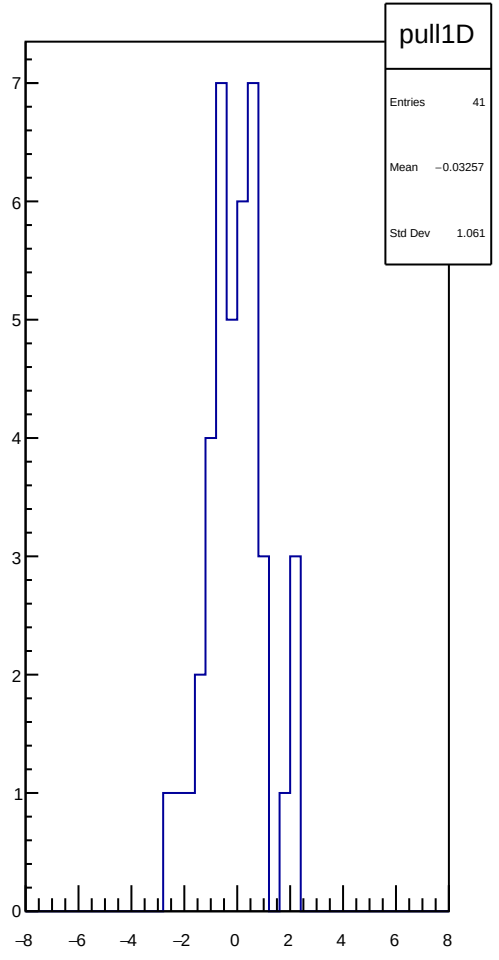

asym_sam_26_avg_rms vs run
χ² / ndf 3223 / 40
p0 2315 ± 2.609
2800
2700
2600
2500
2400
2300
2200
2100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

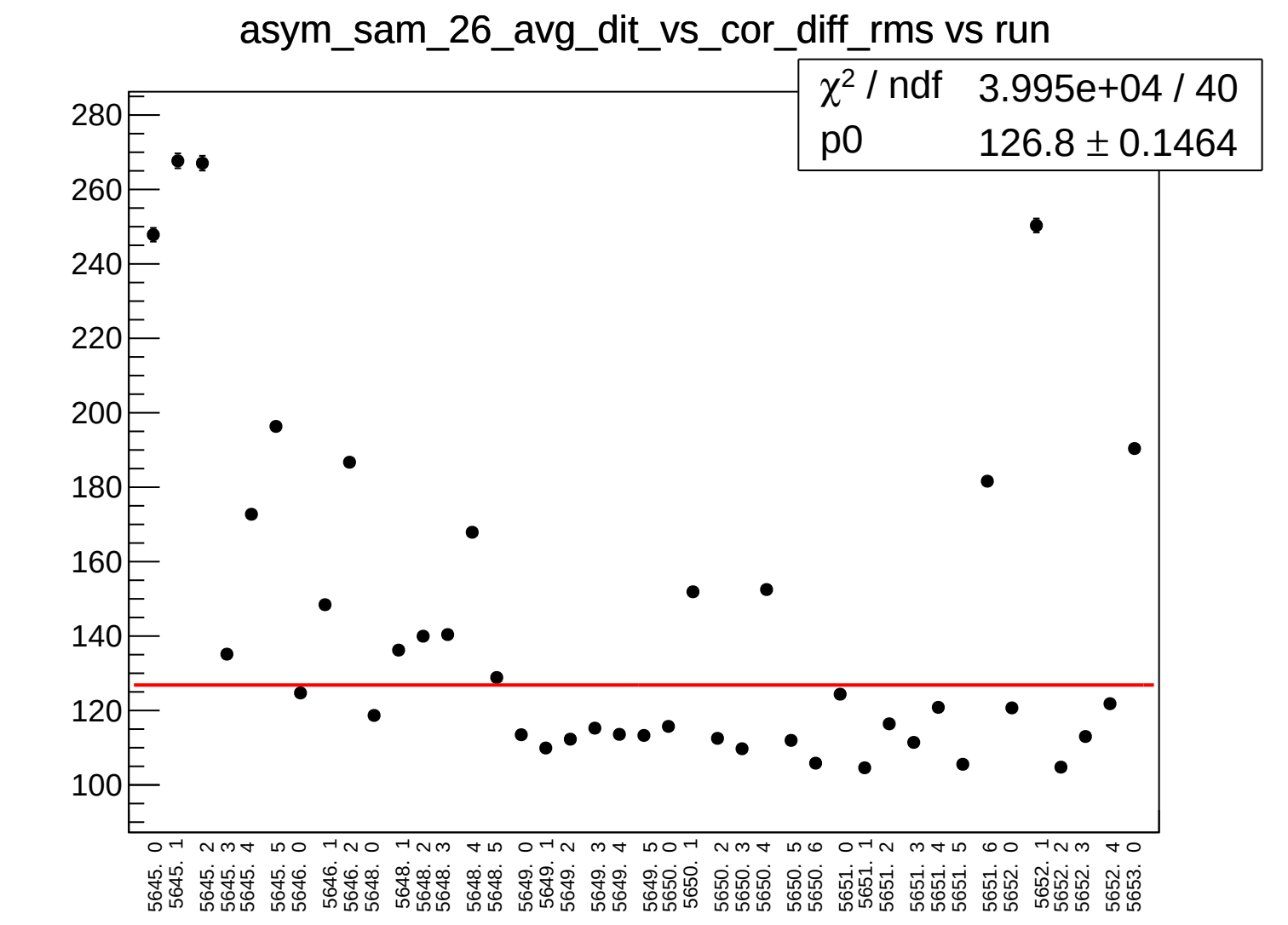

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.39 / 40
p0 2.437e−13 ± 3.361e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 41
Mean 36.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1

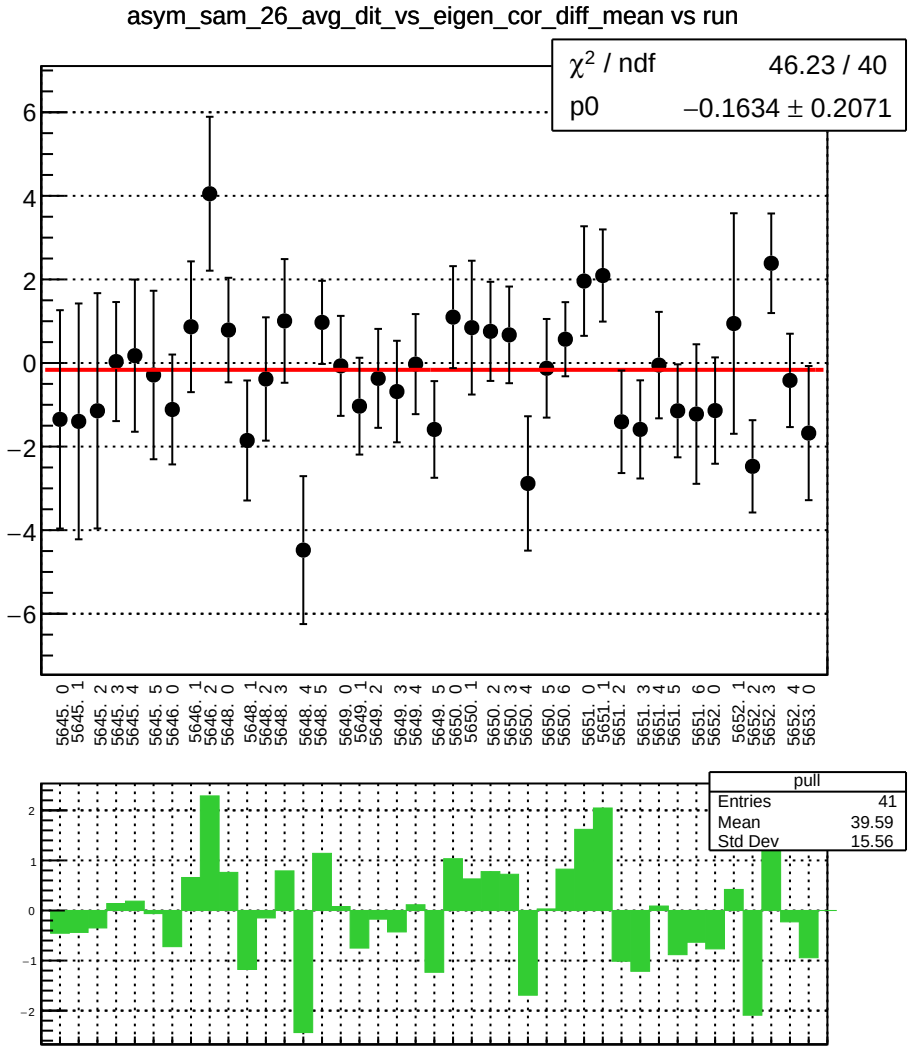

pull1D
Entries 41
Mean 0.05135
Std Dev 0.7695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

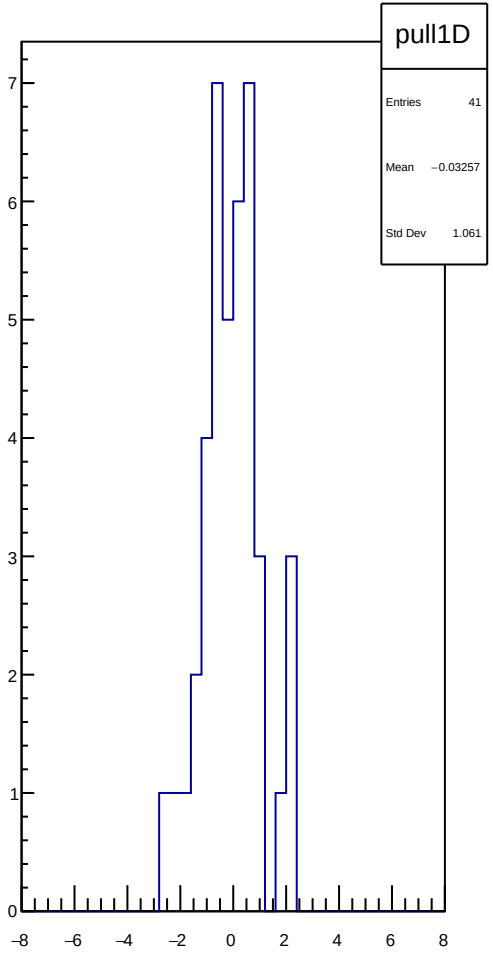

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.674e+05 / 40
p0 1.546e−10 ± 2.377e−13
0.1
0.08
0.06
0.04
0.02
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

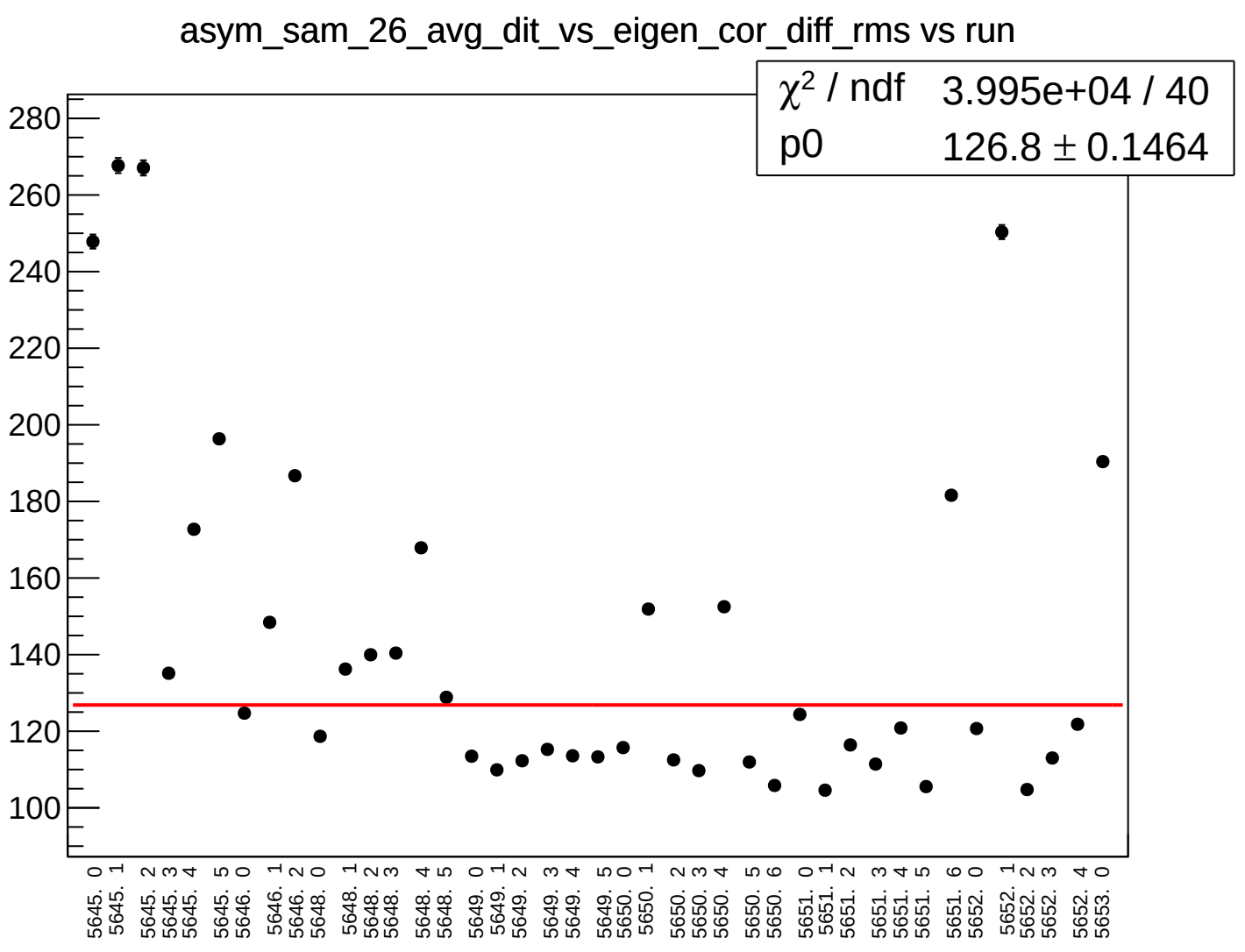

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.23 / 40
p0 −0.1634 ± 0.2071
pull
Entries 41
Mean 39.59
Std Dev 15.56

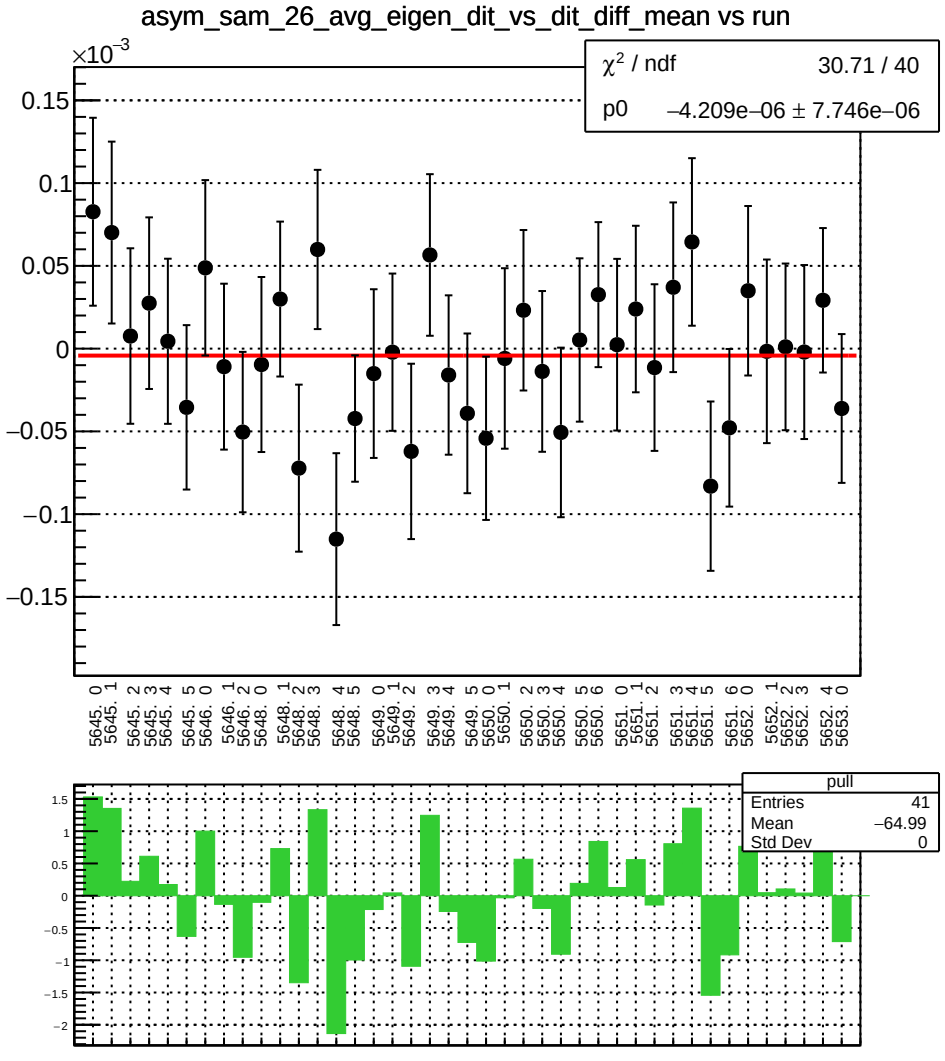

pull1D
Entries 41
Mean −0.03257
Std Dev 1.061

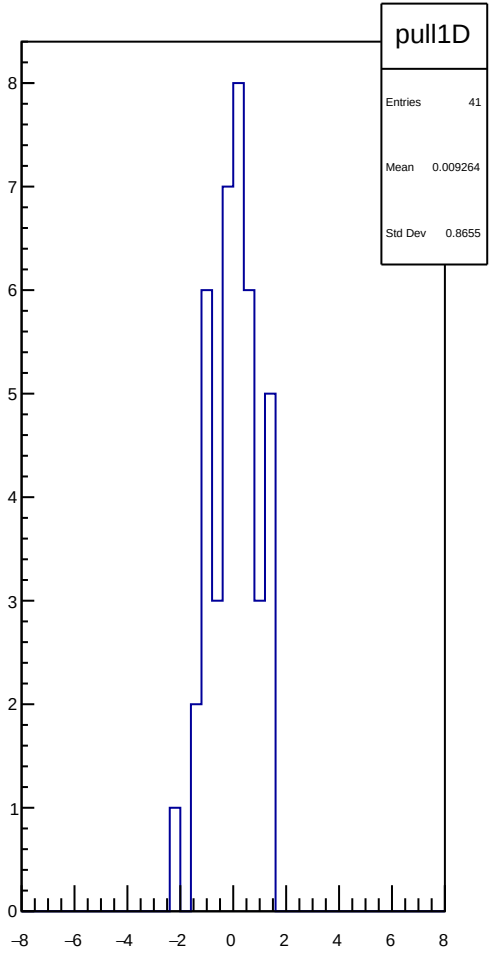

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.995e+04 / 40
p0 126.8 ± 0.1464
280
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

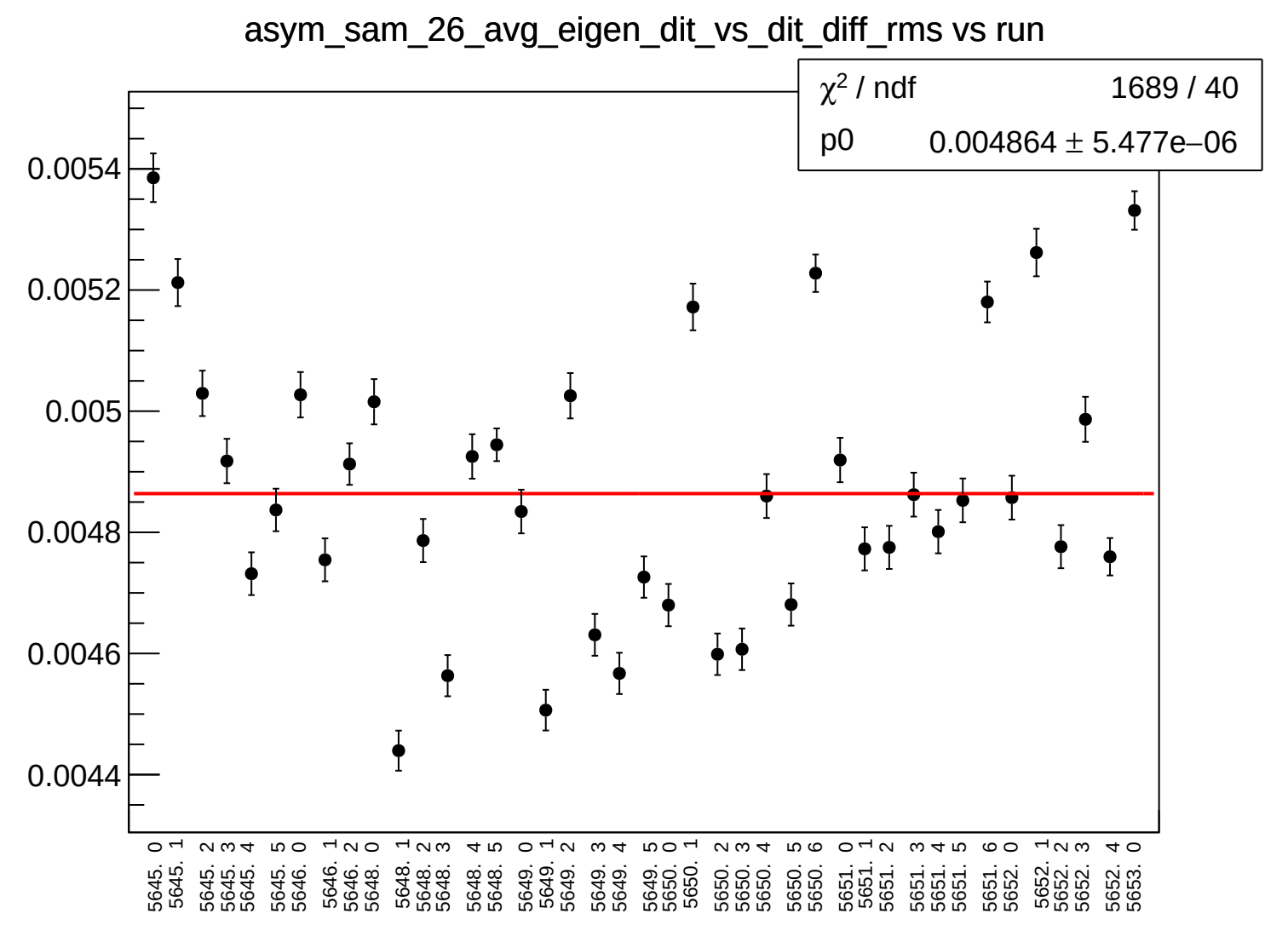

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.23 / 40
p0 −0.1634 ± 0.2071
pull
Entries 41
Mean 39.59
Std Dev 15.56

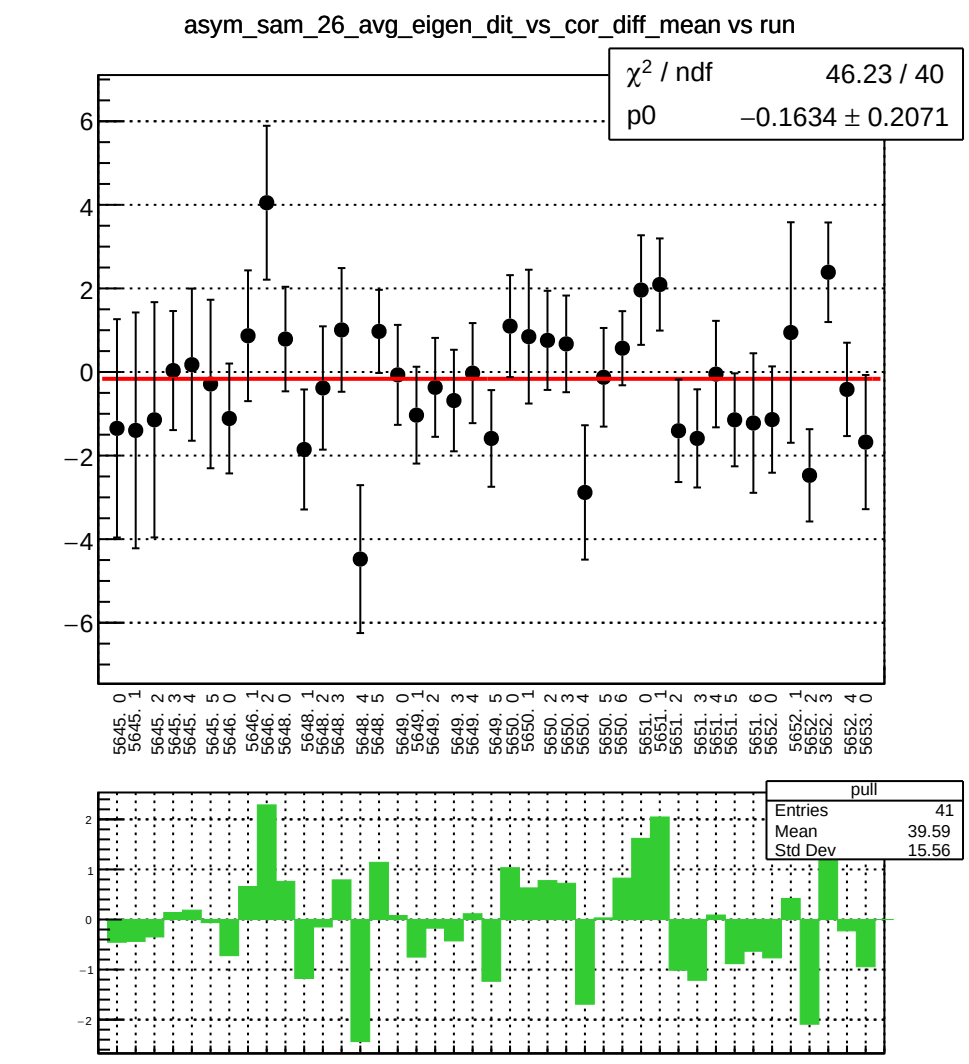

pull1D
Entries 41
Mean −0.03257
Std Dev 1.061

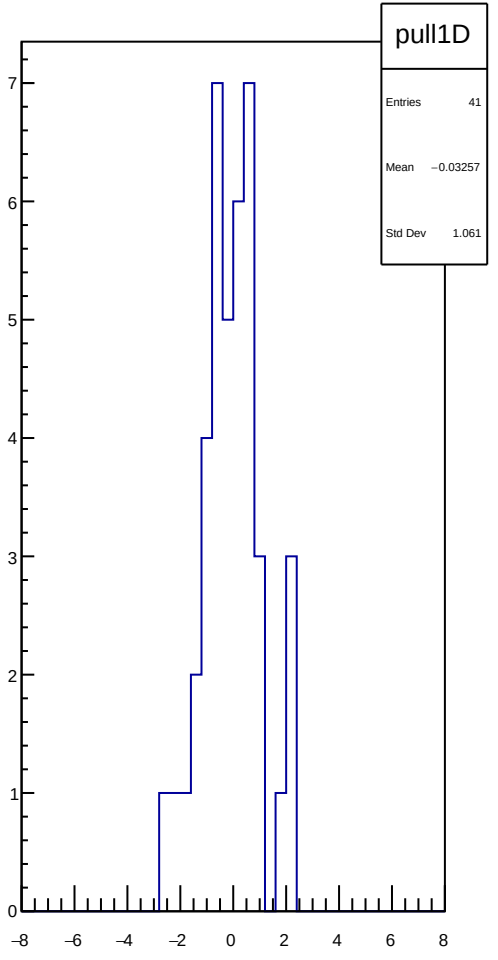

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.995e+04 / 40
p0 126.8 ± 0.1464
280
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

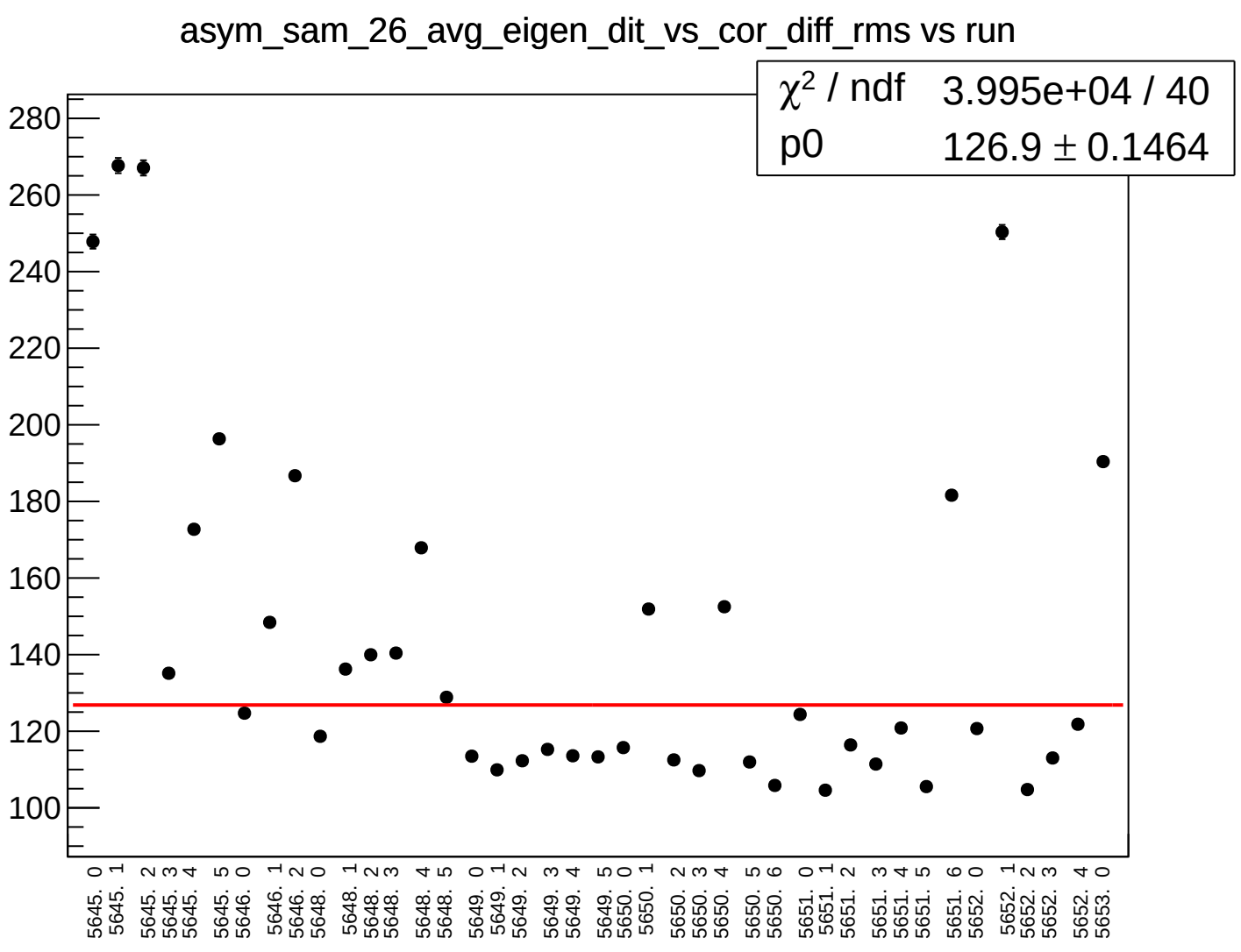

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.71 / 40
p0 −4.209e−06 ± 7.746e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −64.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

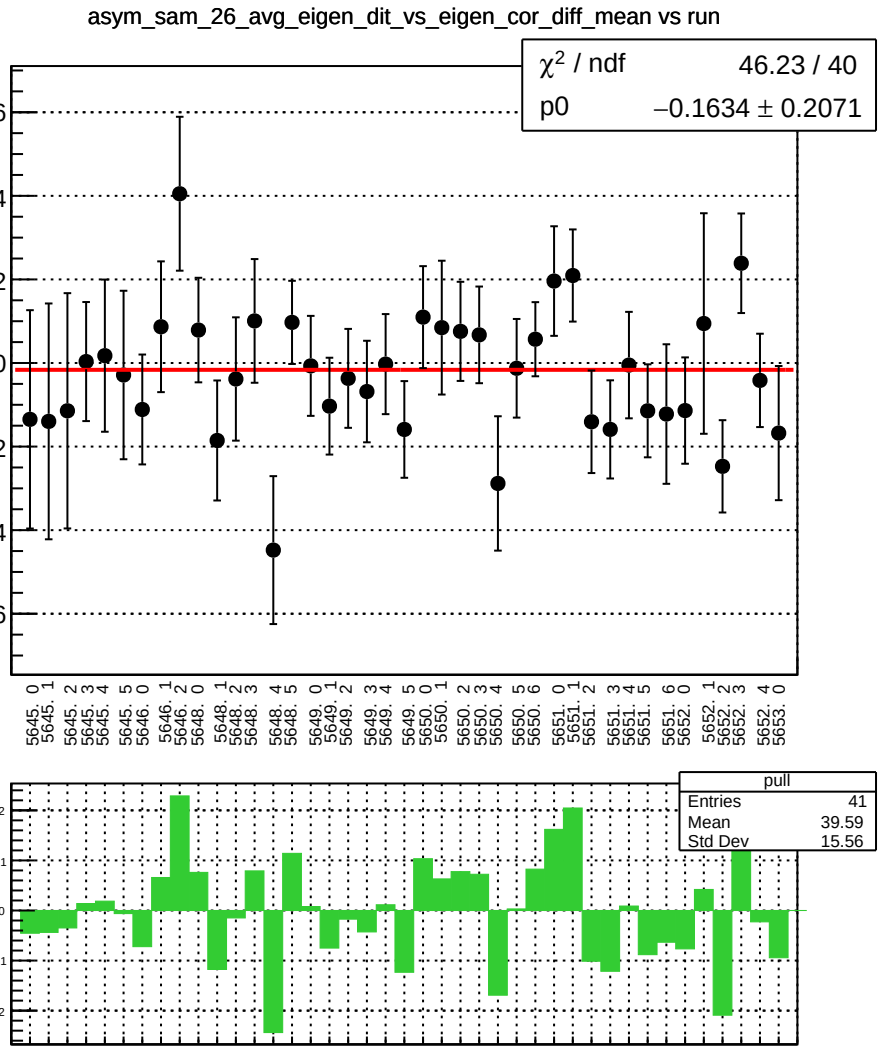

pull1D
Entries 41
Mean 0.009264
Std Dev 0.8655
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

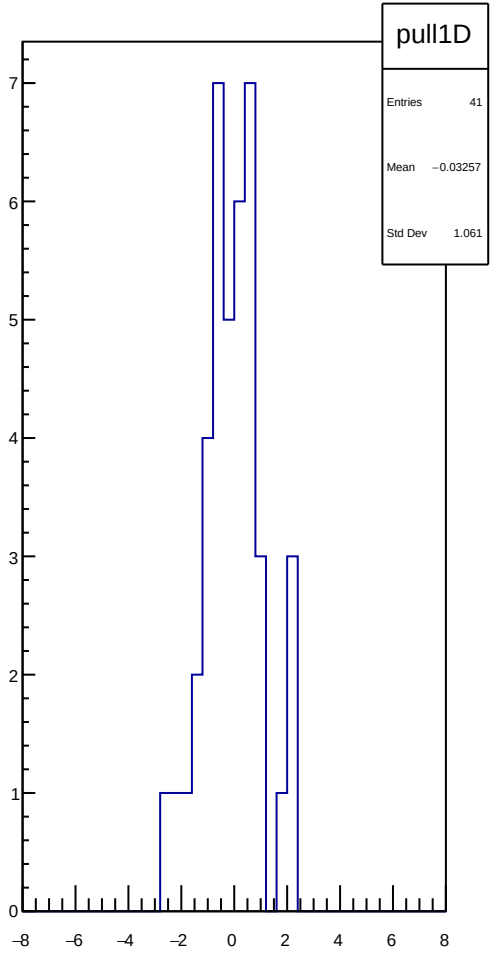

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1689 / 40
p0 0.004864 ± 5.477e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

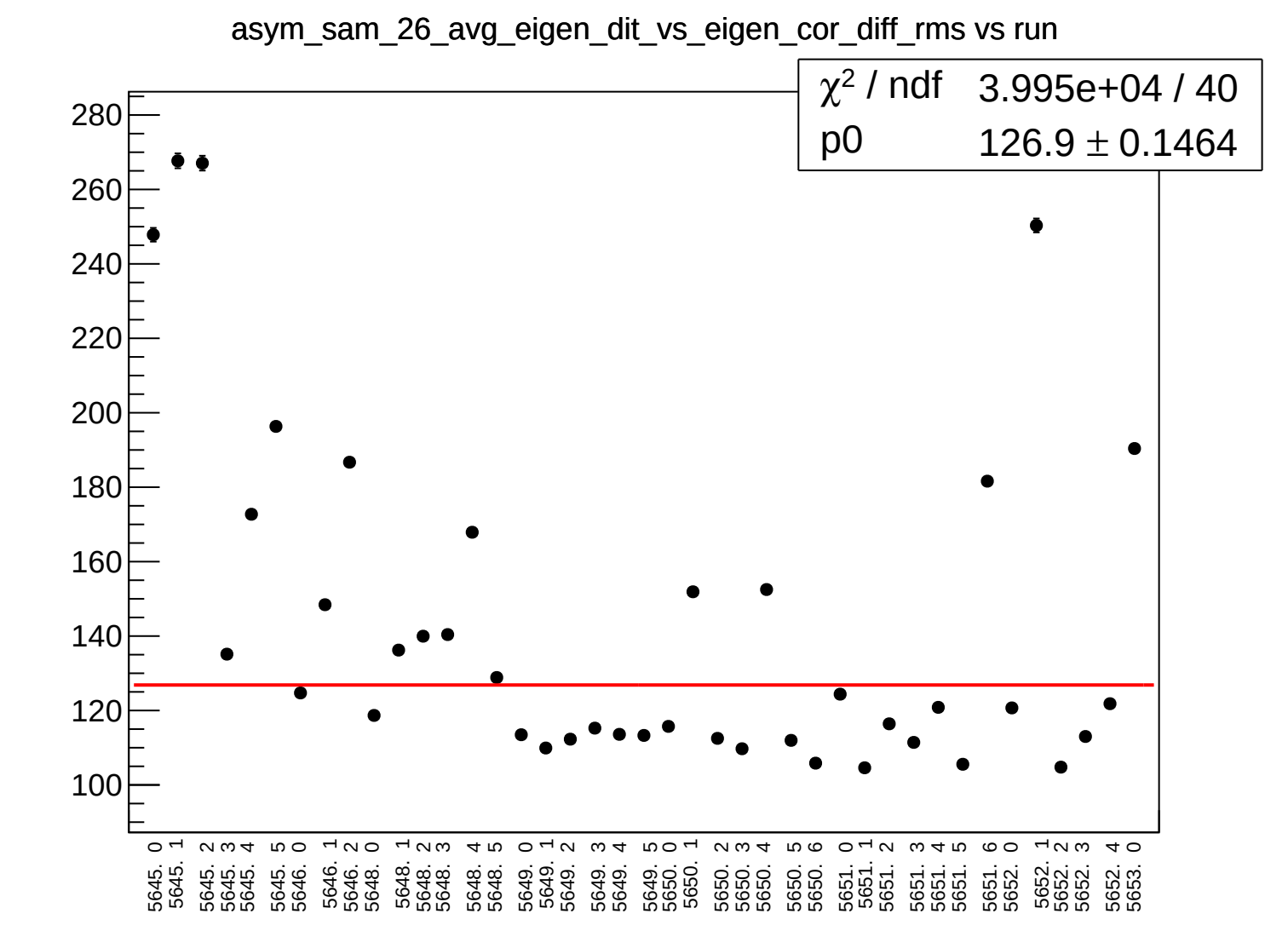

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.23 / 40
p0 −0.1634 ± 0.2071
pull
Entries 41
Mean 39.59
Std Dev 15.56

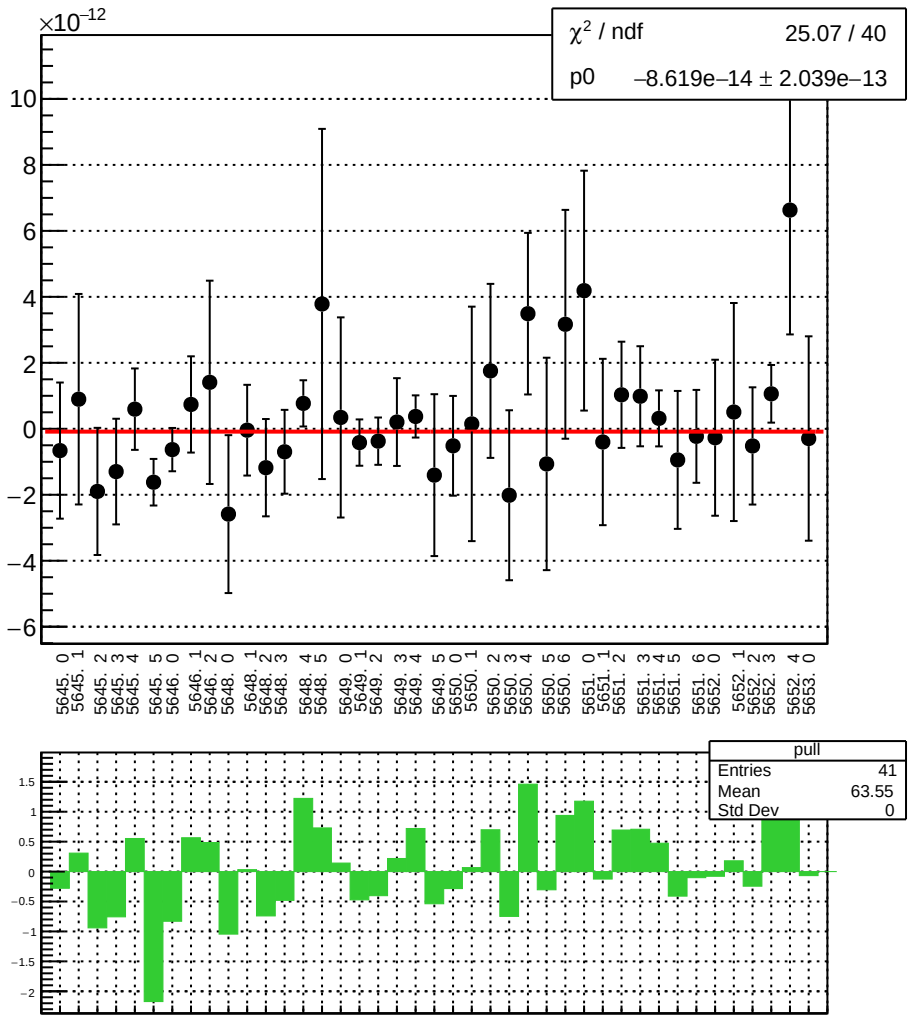

pull1D
Entries 41
Mean −0.03257
Std Dev 1.061

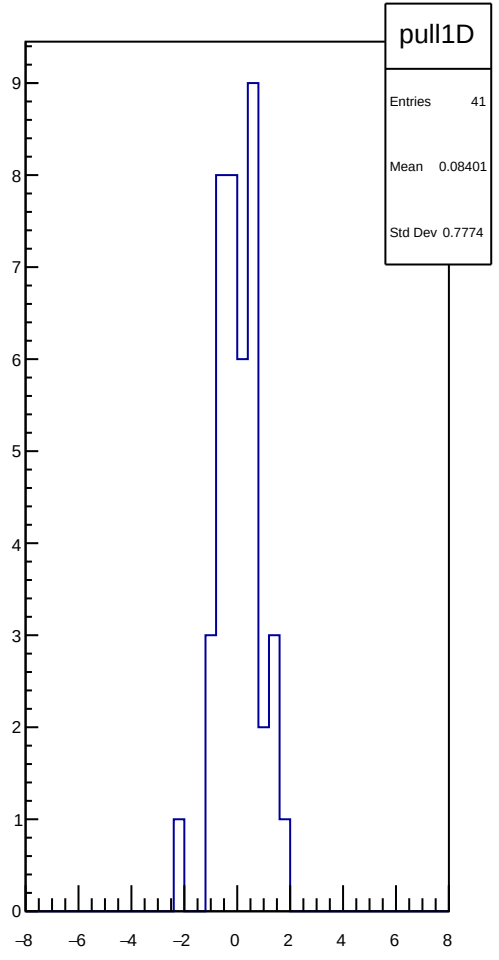

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.995e+04 / 40
p0 126.9 ± 0.1464
280
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

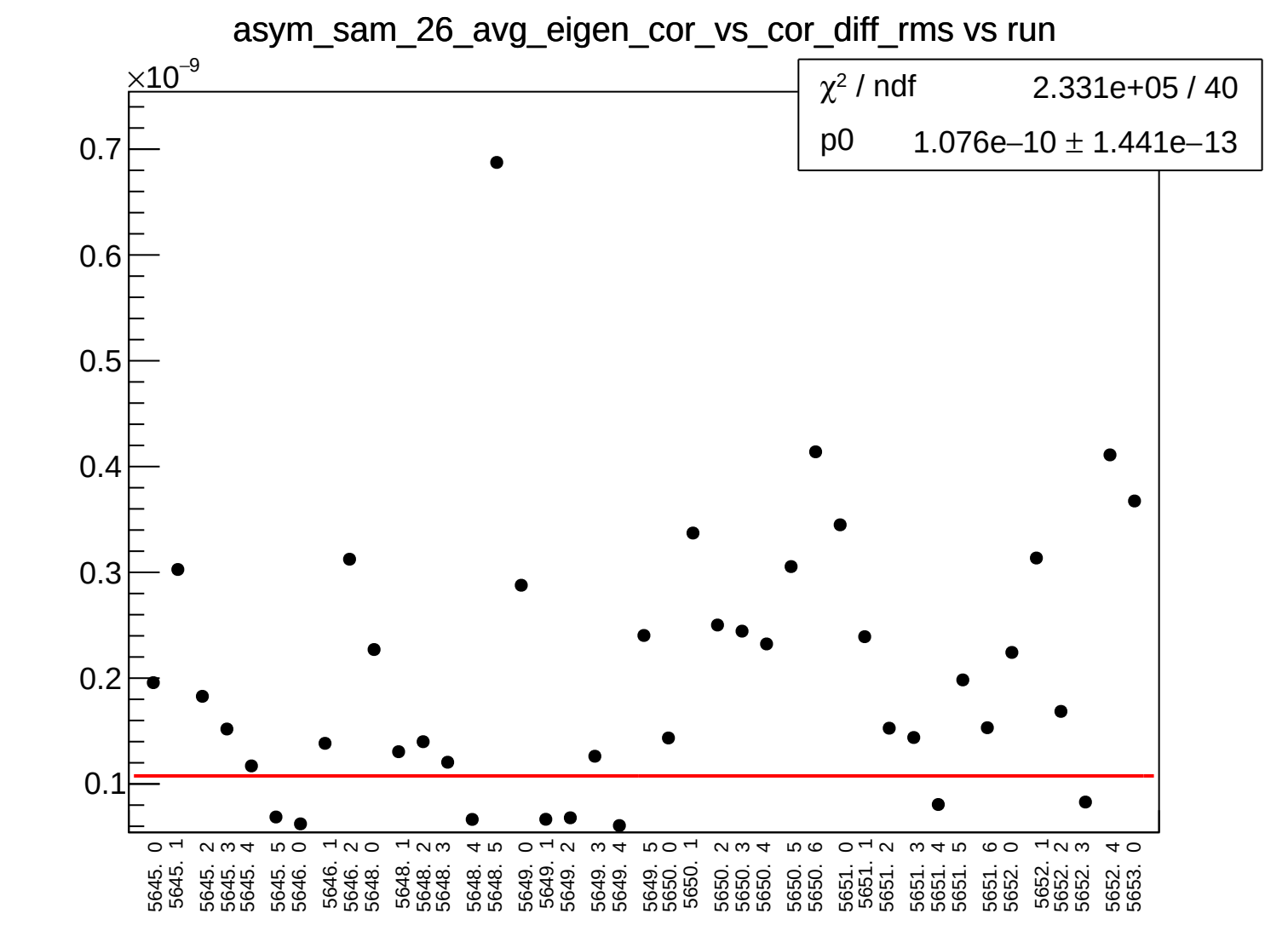

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.23 / 40
p0 −0.1634 ± 0.2071
pull
Entries 41
Mean 39.59
Std Dev 15.56

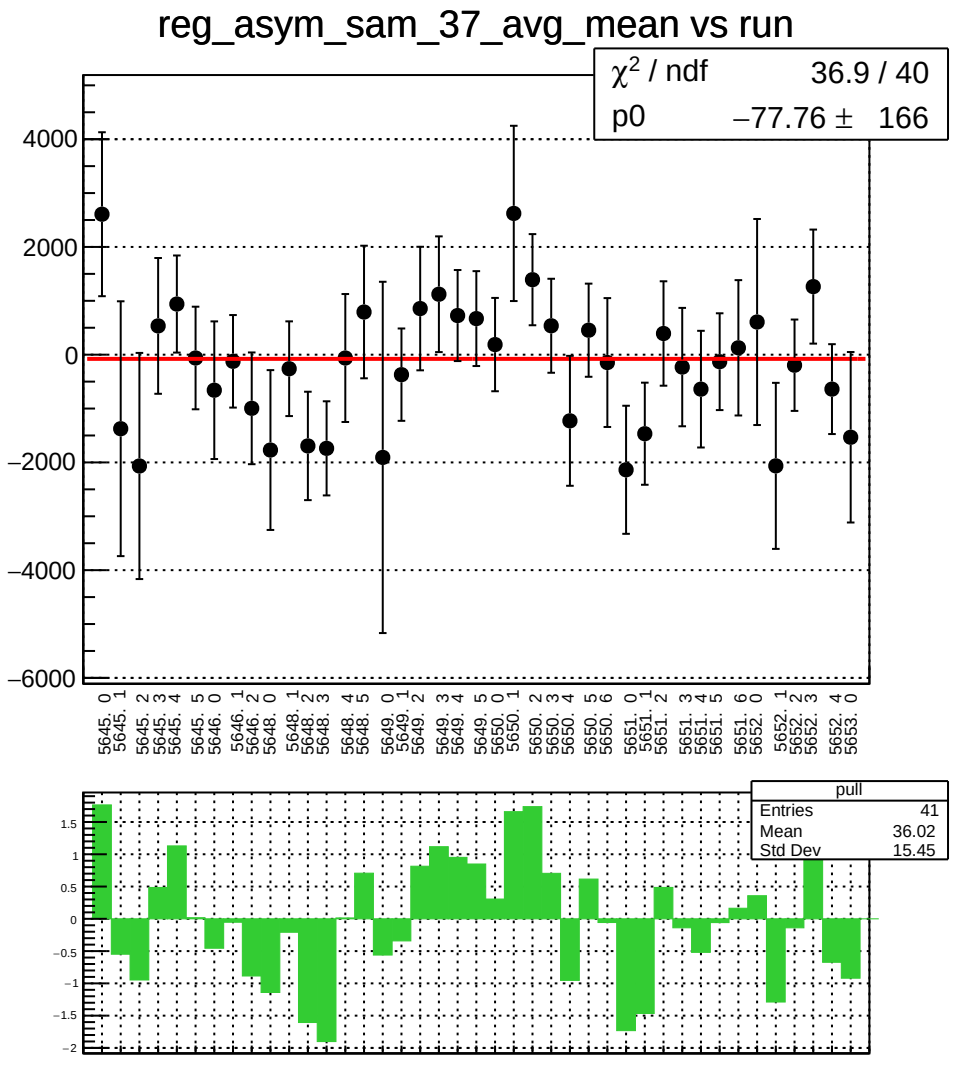

pull1D
Entries 41
Mean −0.03257
Std Dev 1.061

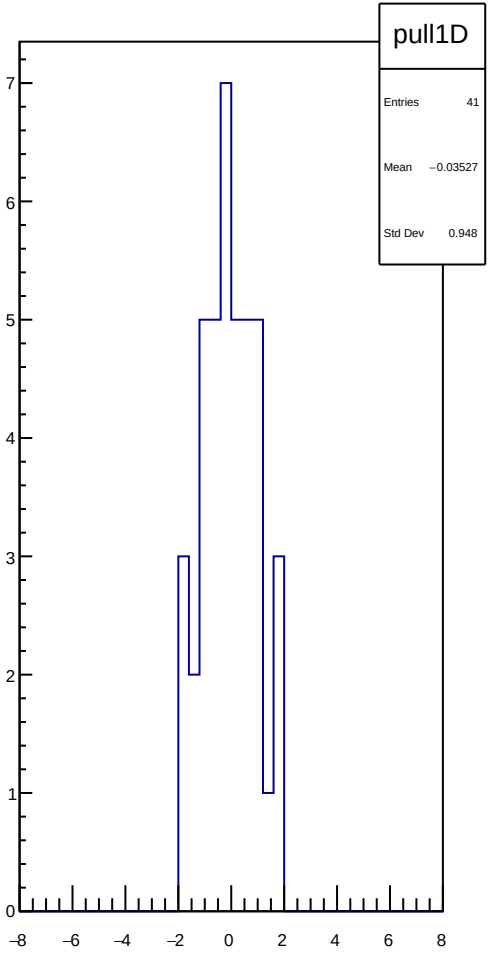

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.995e+04 / 40
p0 126.9 ± 0.1464
280
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

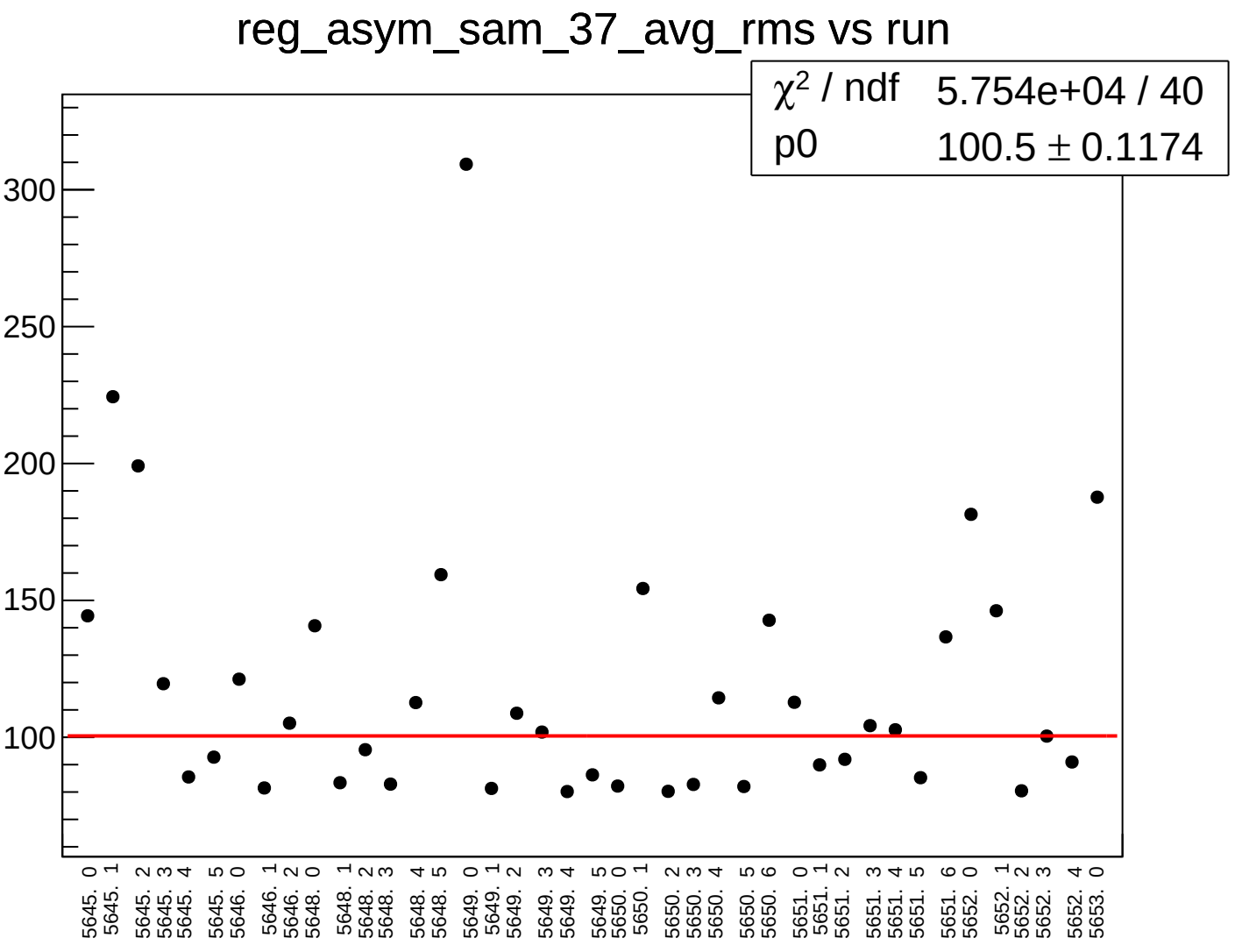

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.07 / 40
p0 −8.619e−14 ± 2.039e−13
pull
Entries 41
Mean 63.55
Std Dev 0

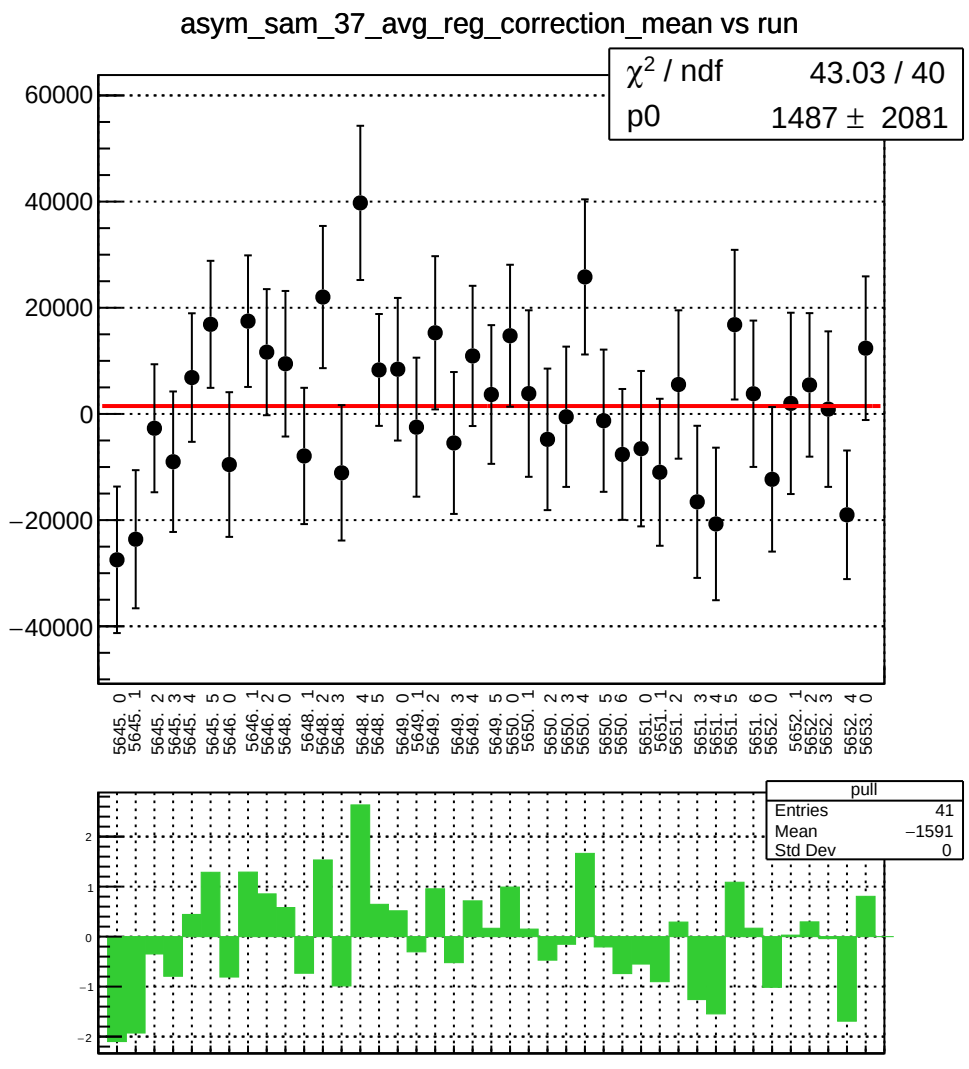

pull1D
Entries 41
Mean 0.08401
Std Dev 0.7774

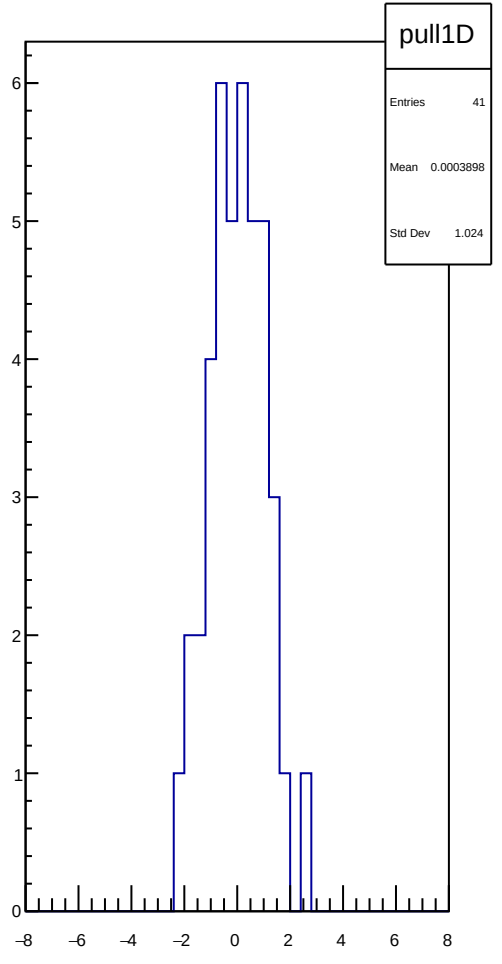

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.331e+05 / 40
p0 1.076e−10 ± 1.441e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

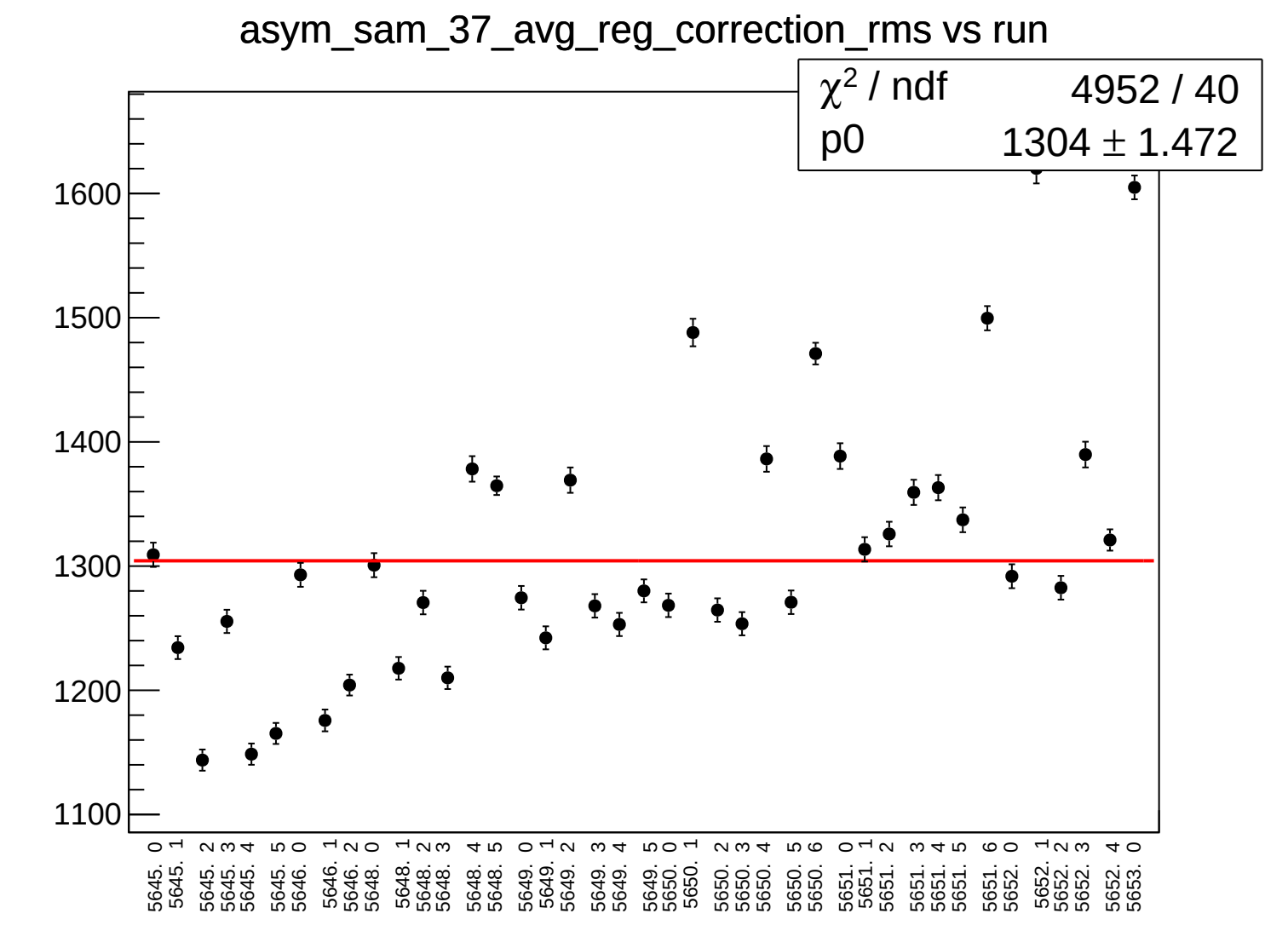

reg_asym_sam_37_avg_mean vs run
χ² / ndf 36.9 / 40
p0 −77.76 ± 166
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.02
Std Dev 15.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2

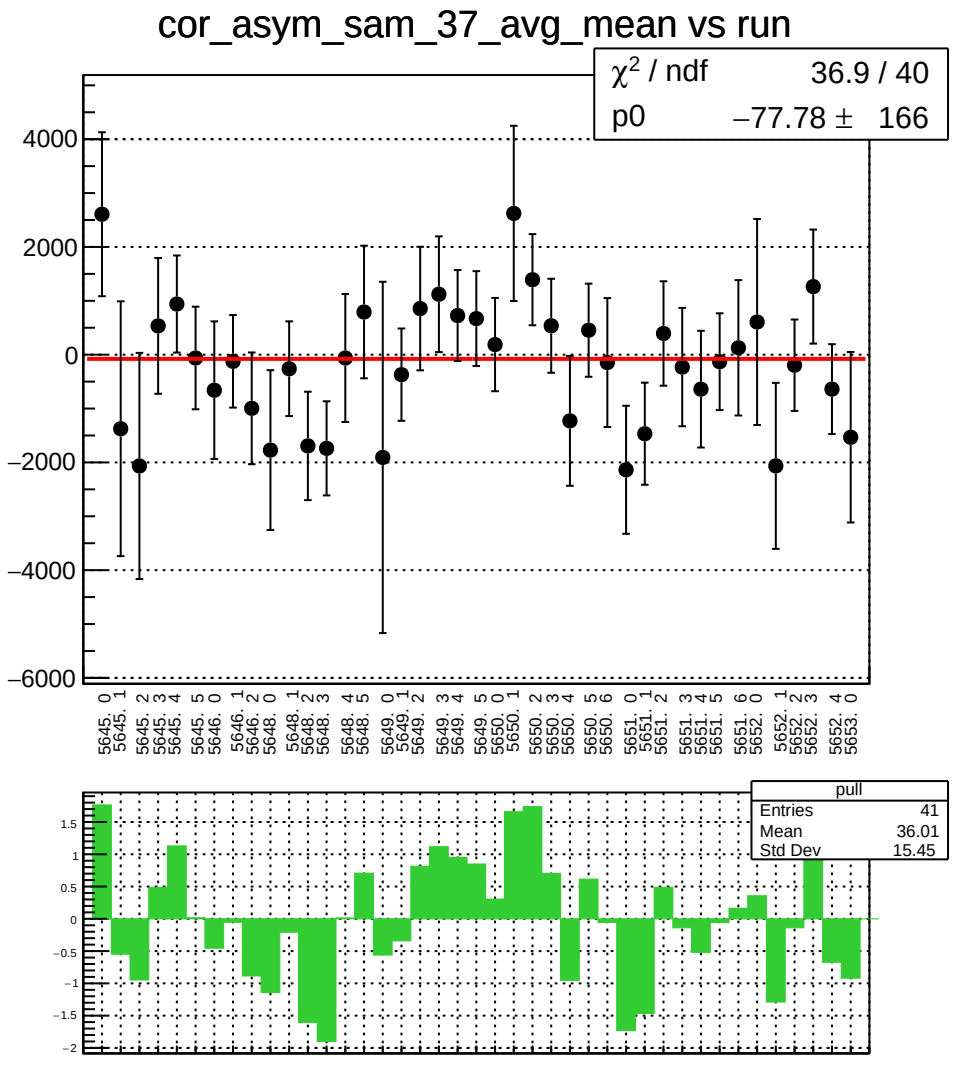

pull1D
Entries 41
Mean −0.03527
Std Dev 0.948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

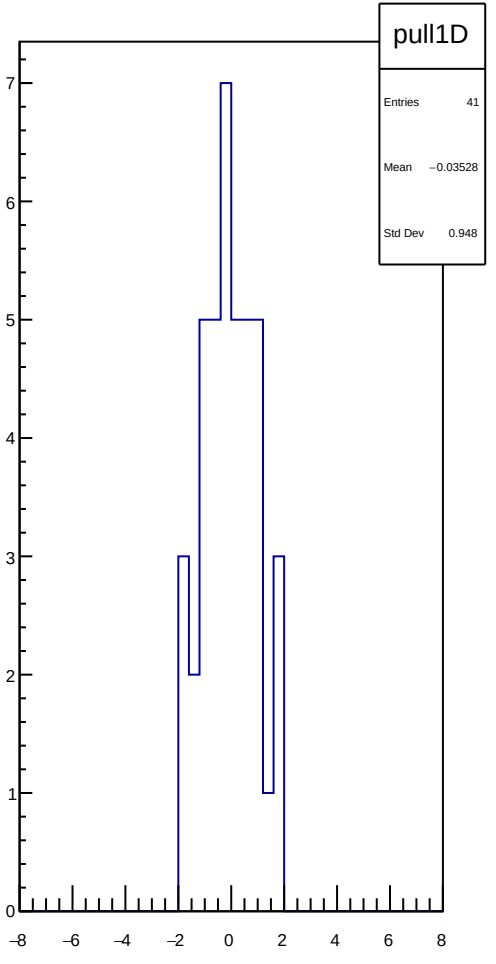

reg_asym_sam_37_avg_rms vs run
χ² / ndf 5.754e+04 / 40
p0 100.5 ± 0.1174
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

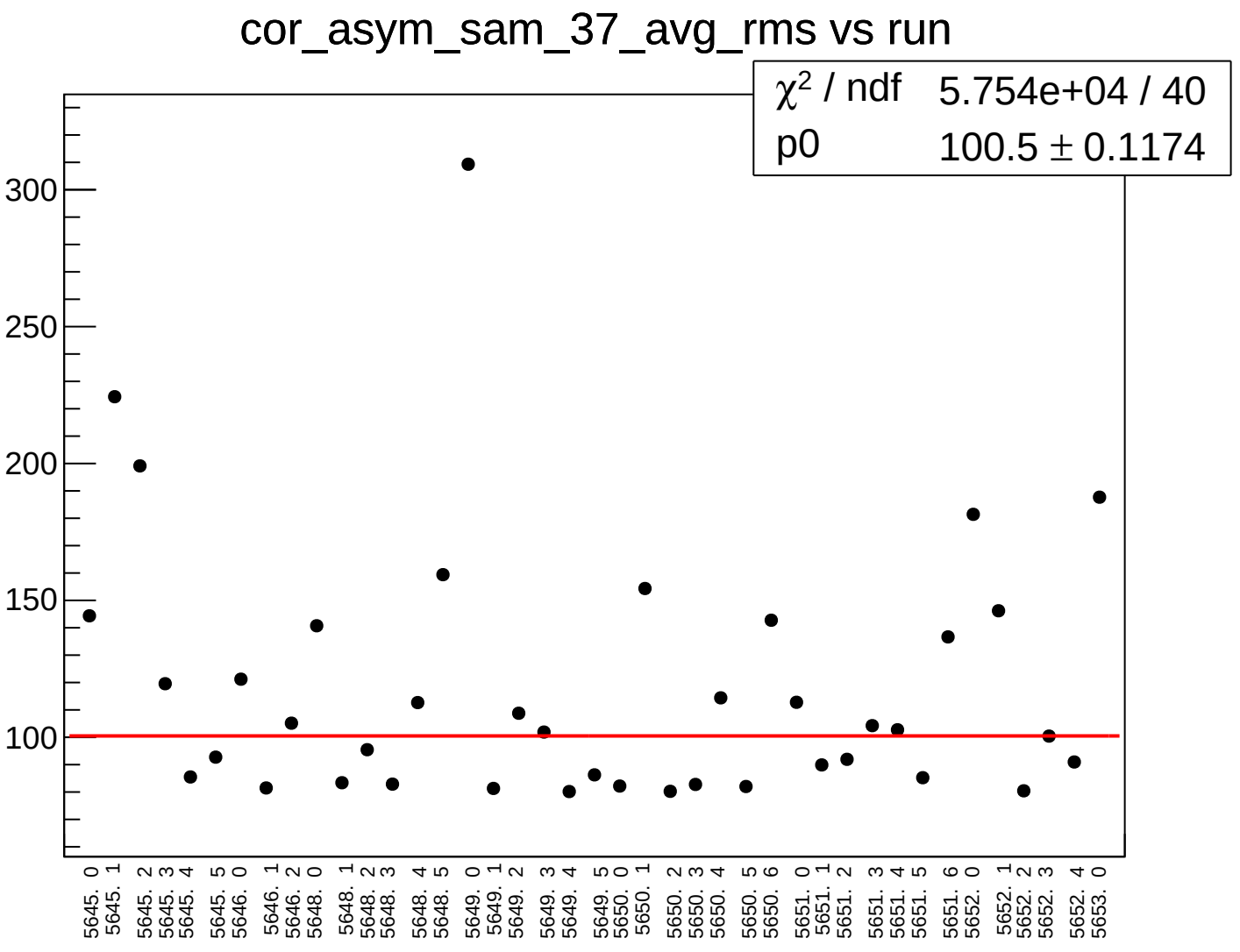

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 43.03 / 40
p0 1487 ± 2081
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1591
Std Dev 0
2
1
0
−1
−2

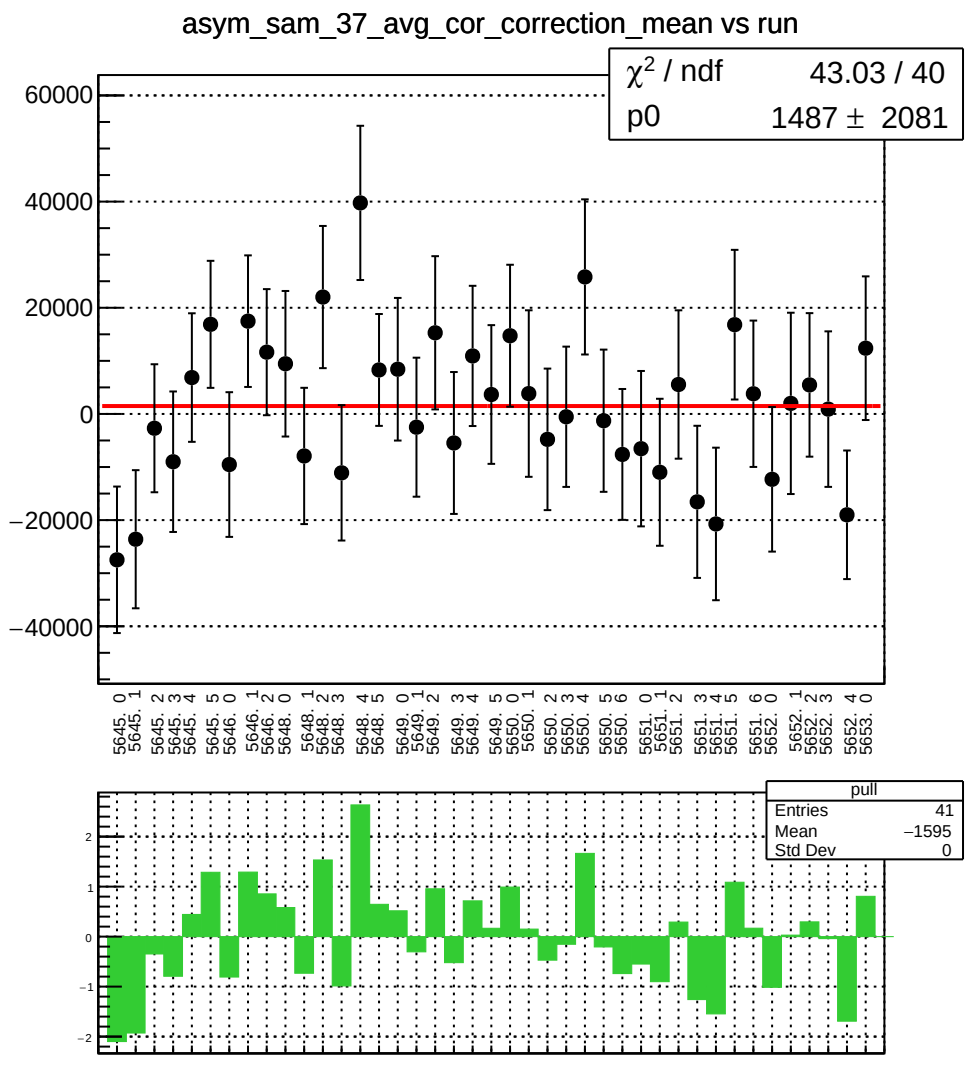

pull1D
Entries 41
Mean 0.0003898
Std Dev 1.024
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

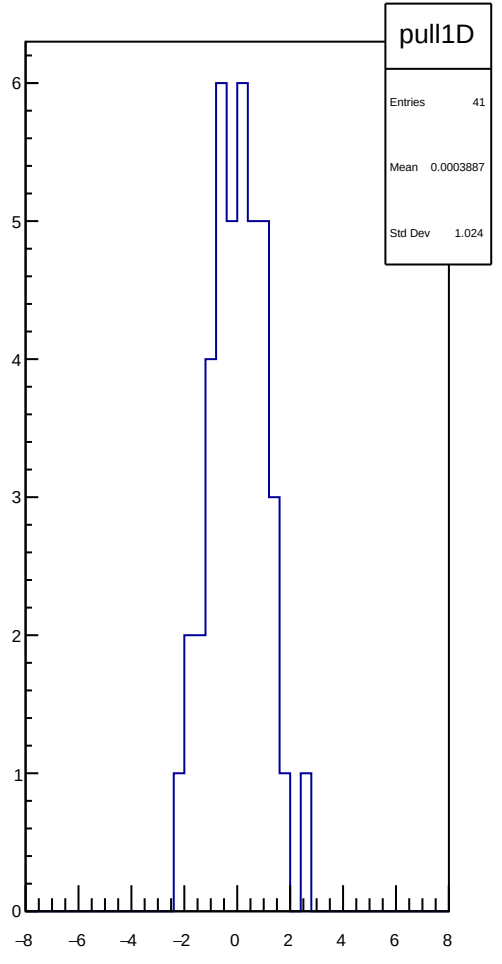

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 4952 / 40
p0 1304 ± 1.472
1600
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

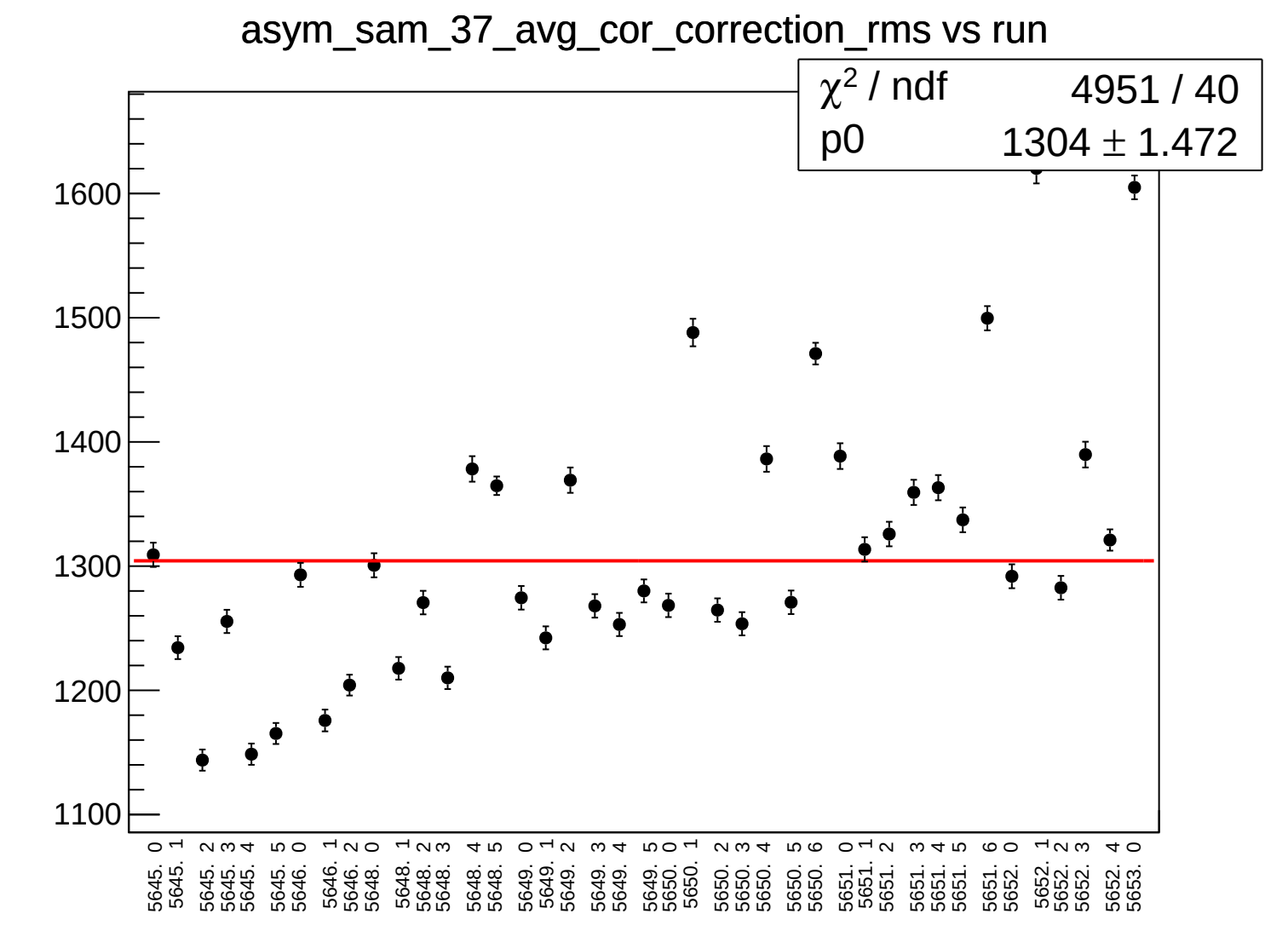

cor_asym_sam_37_avg_mean vs run
χ² / ndf 36.9 / 40
p0 −77.78 ± 166
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.01
Std Dev 15.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2

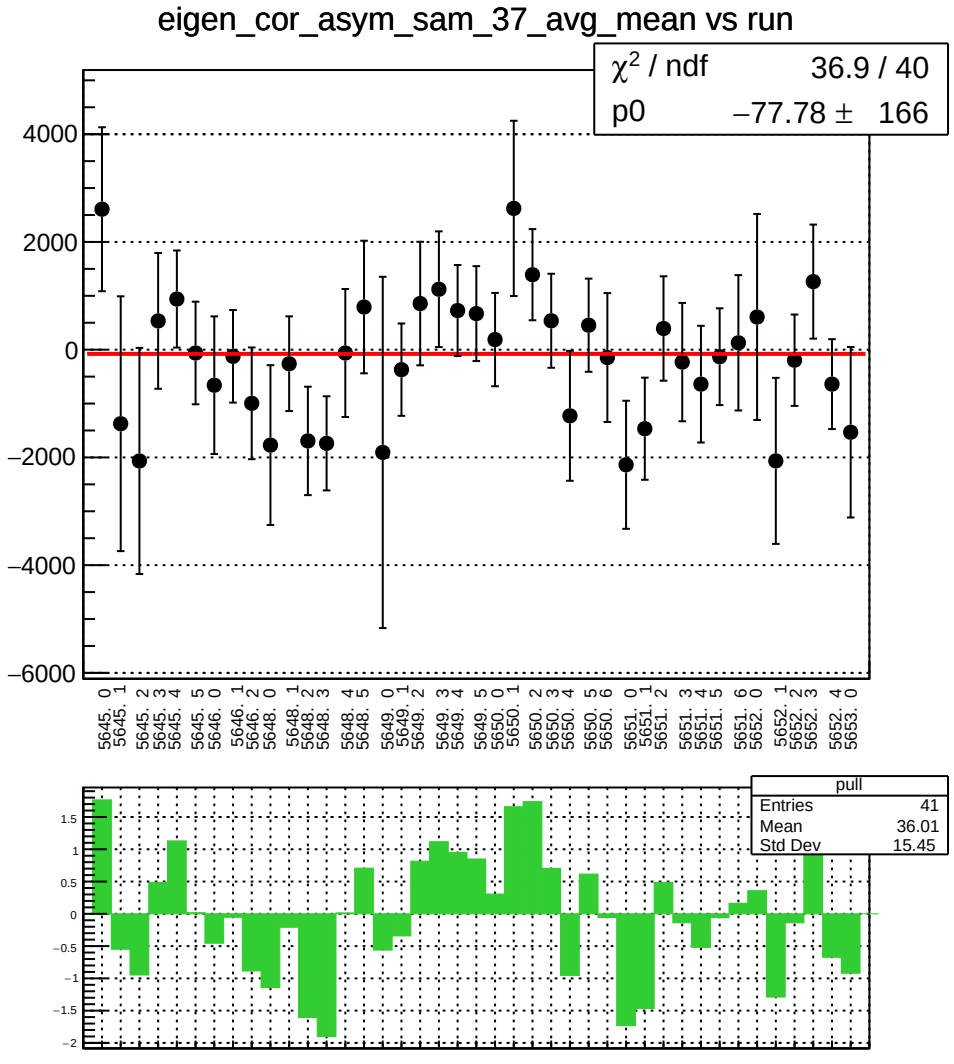

pull1D
Entries 41
Mean −0.03528
Std Dev 0.948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

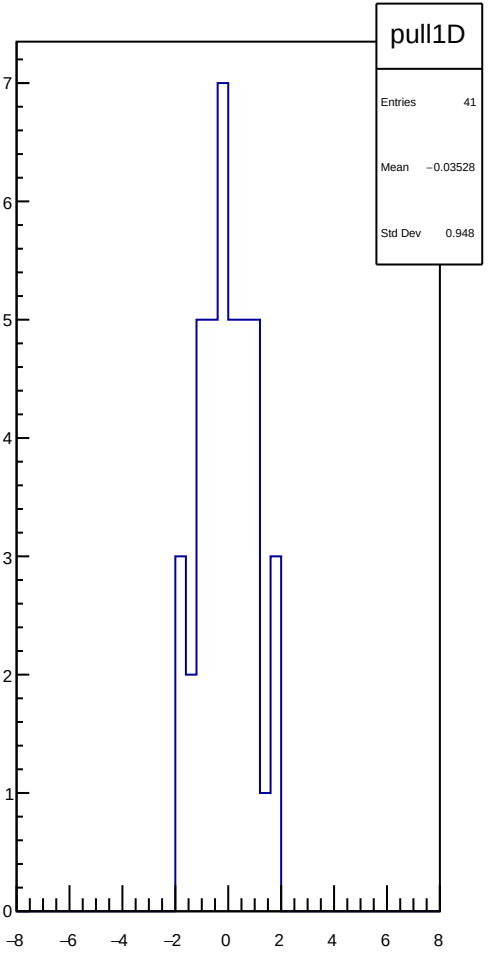

cor_asym_sam_37_avg_rms vs run
χ² / ndf 5.754e+04 / 40
p0 100.5 ± 0.1174
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

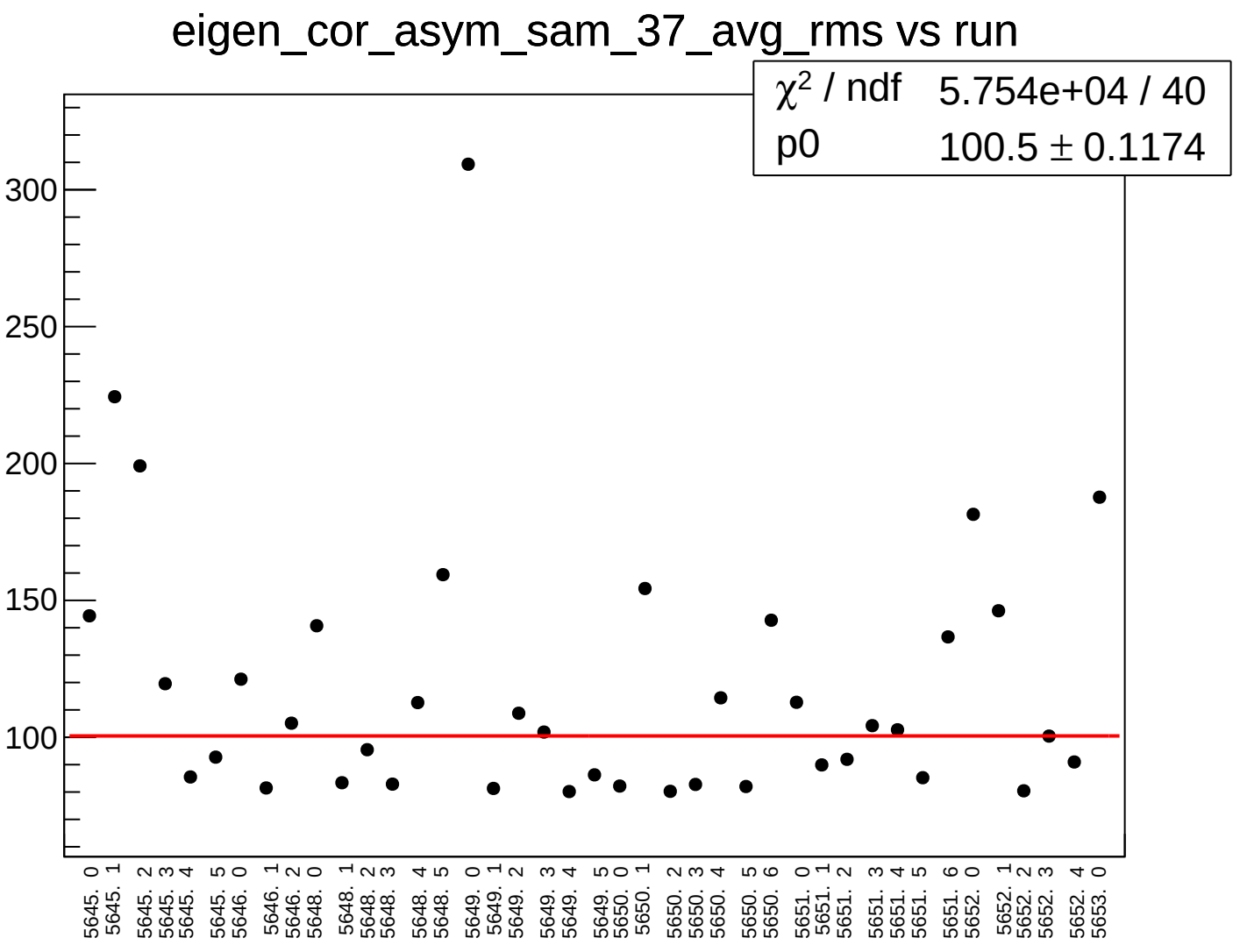

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 43.03 / 40
p0 1487 ± 2081
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1595
Std Dev 0
2
1
0
−1
−2

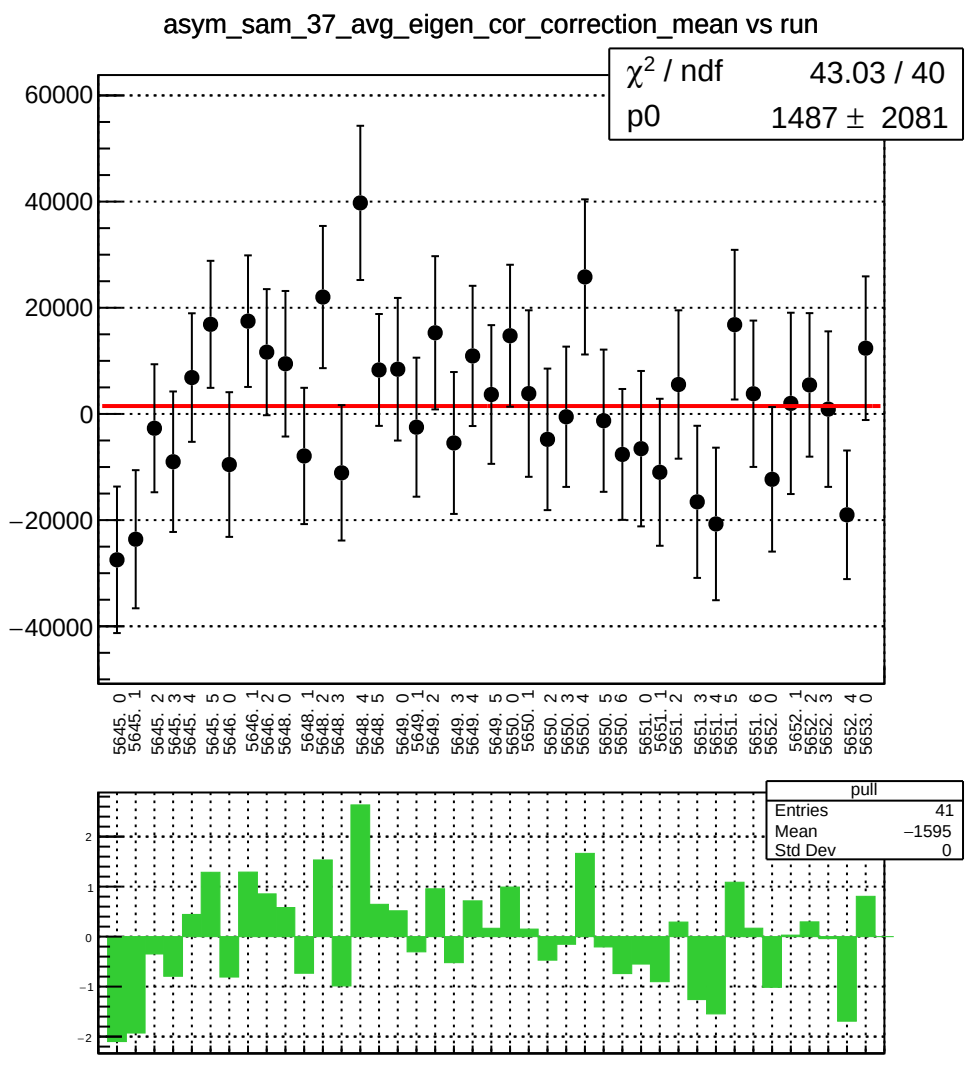

pull1D
Entries 41
Mean 0.0003887
Std Dev 1.024
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

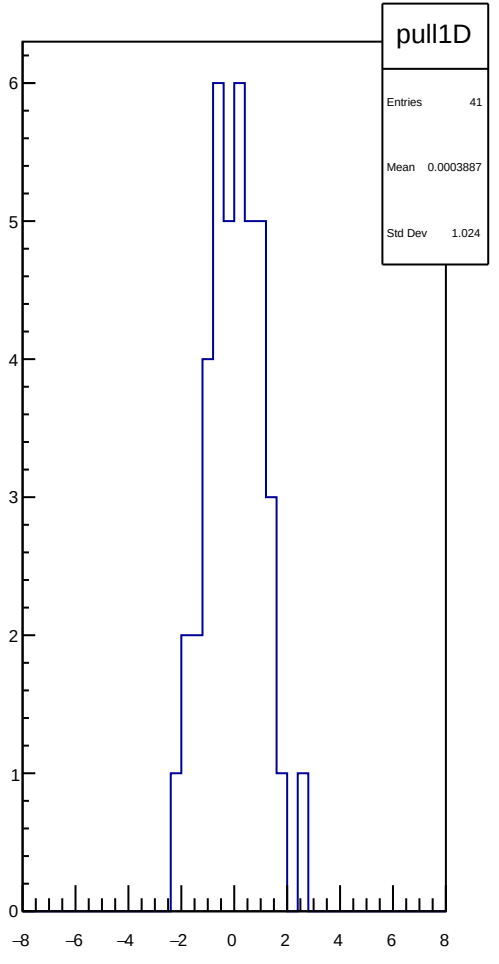

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 4951 / 40
p0 1304 ± 1.472
1600
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

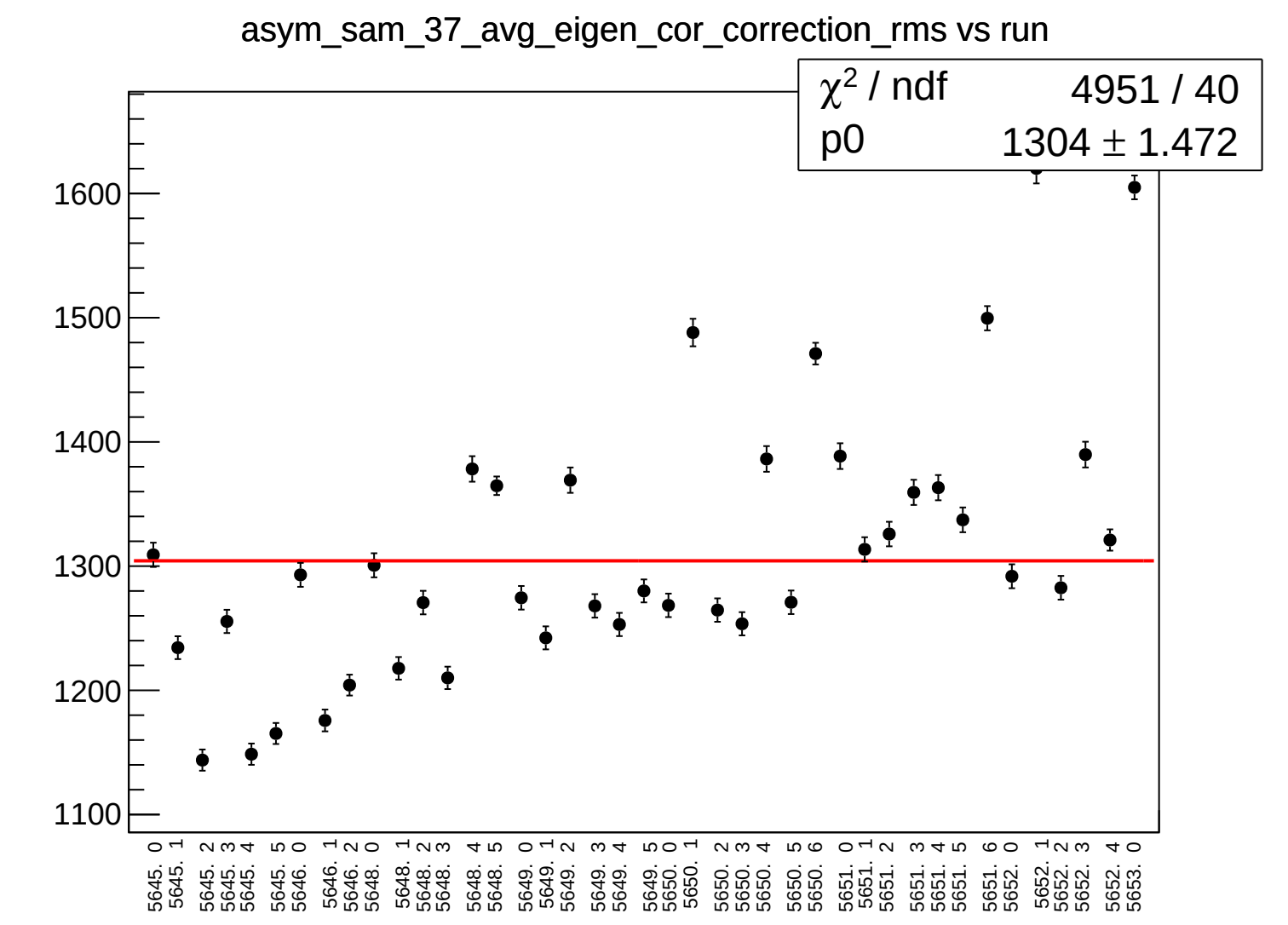

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 36.9 / 40
p0 −77.78 ± 166
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.01
Std Dev 15.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2

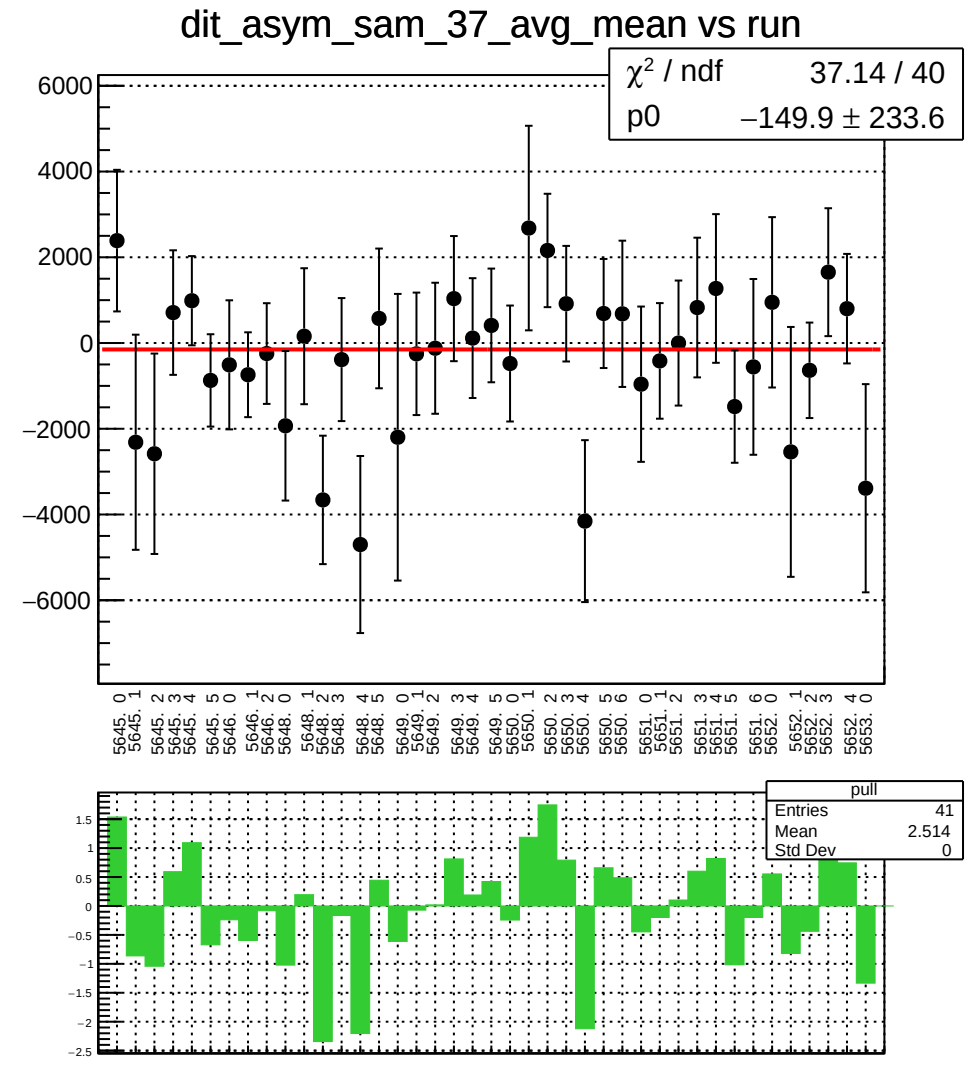

pull1D
Entries 41
Mean −0.03528
Std Dev 0.948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

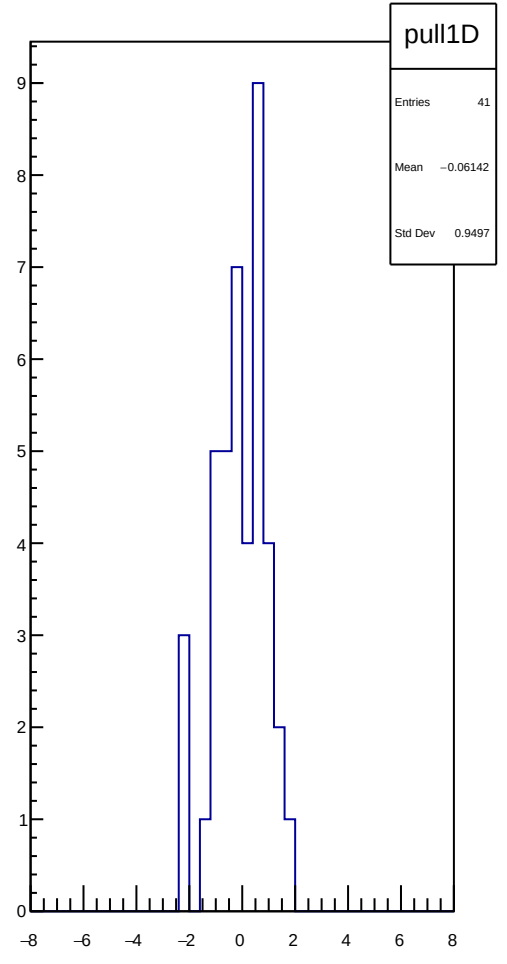

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 5.754e+04 / 40
p0 100.5 ± 0.1174
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

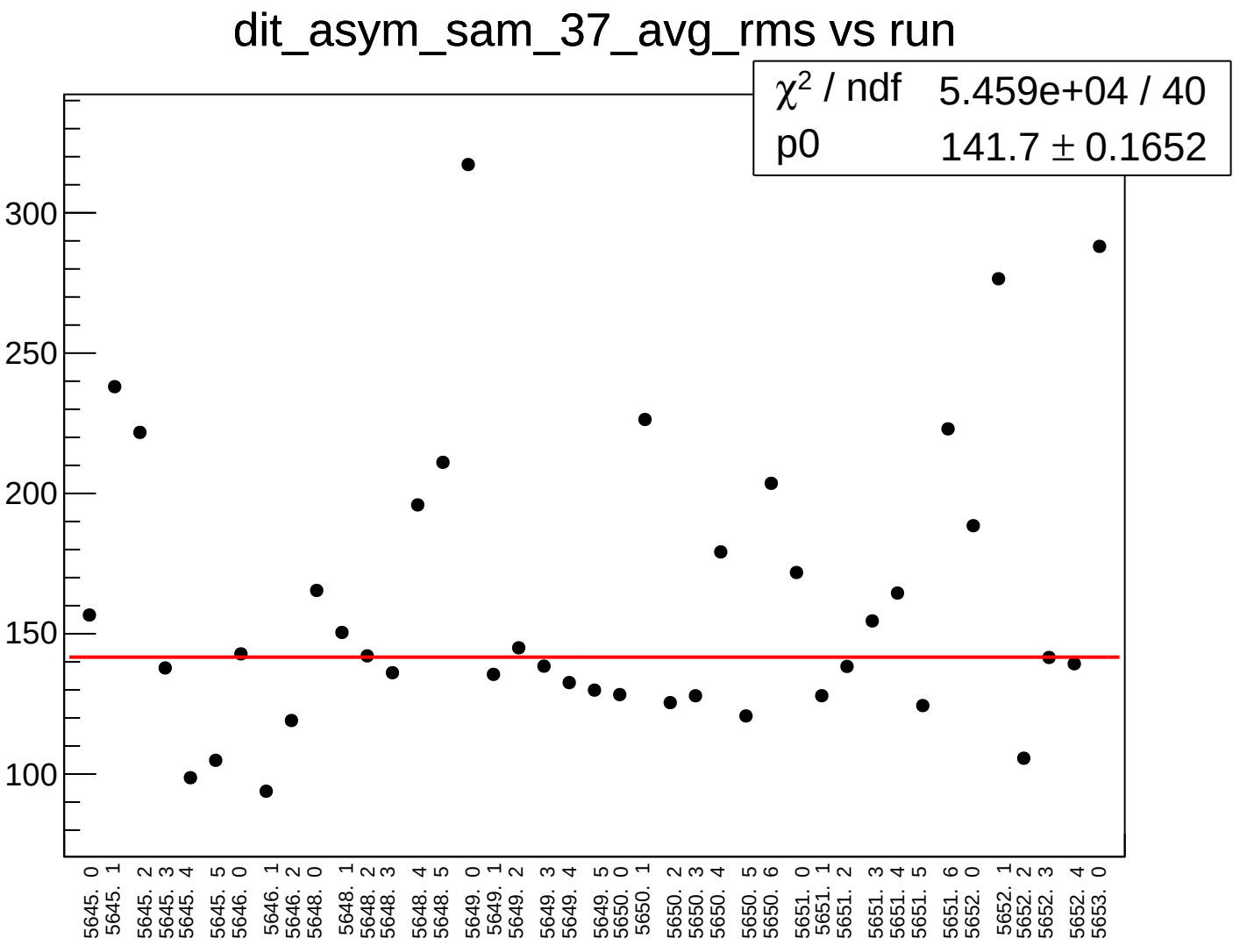

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 43.03 / 40
p0 1487 ± 2081
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1595
Std Dev 0
2
1
0
−1
−2

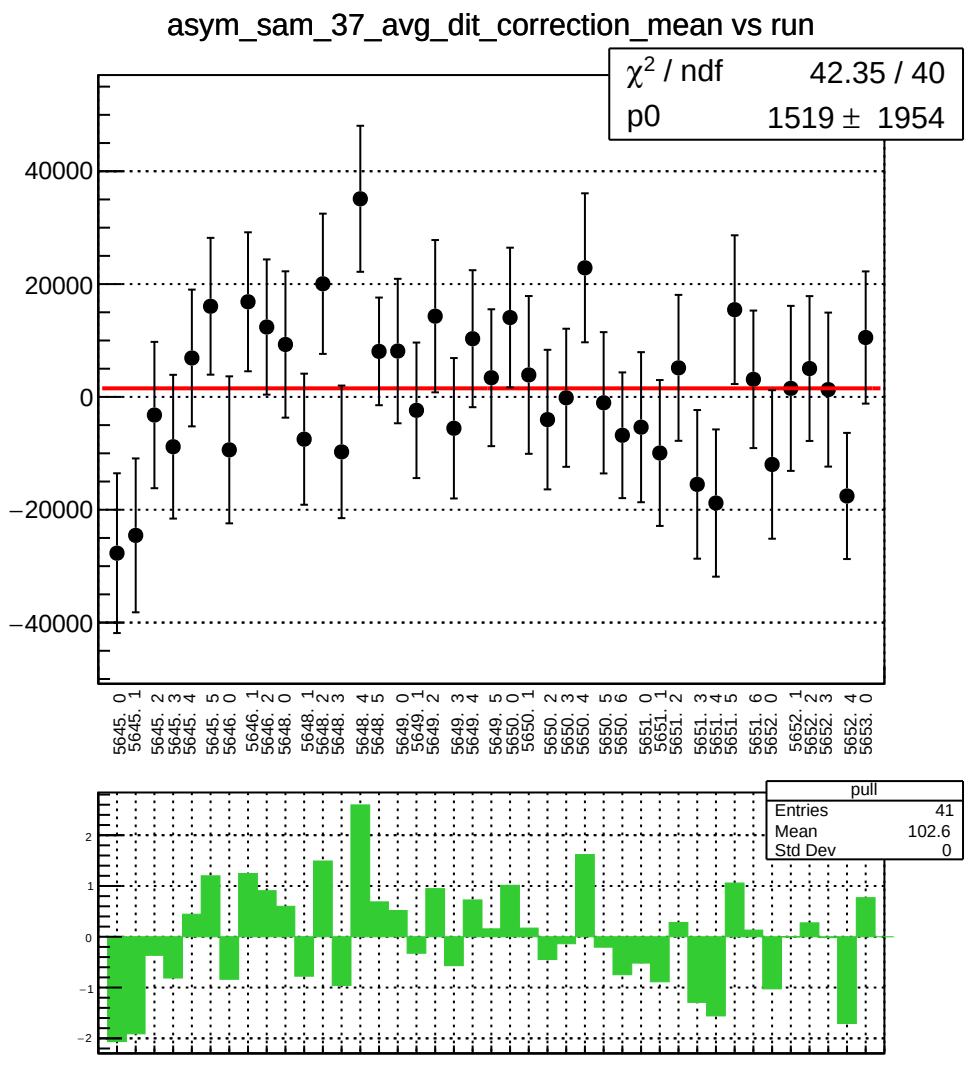

pull1D
Entries 41
Mean 0.0003887
Std Dev 1.024
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

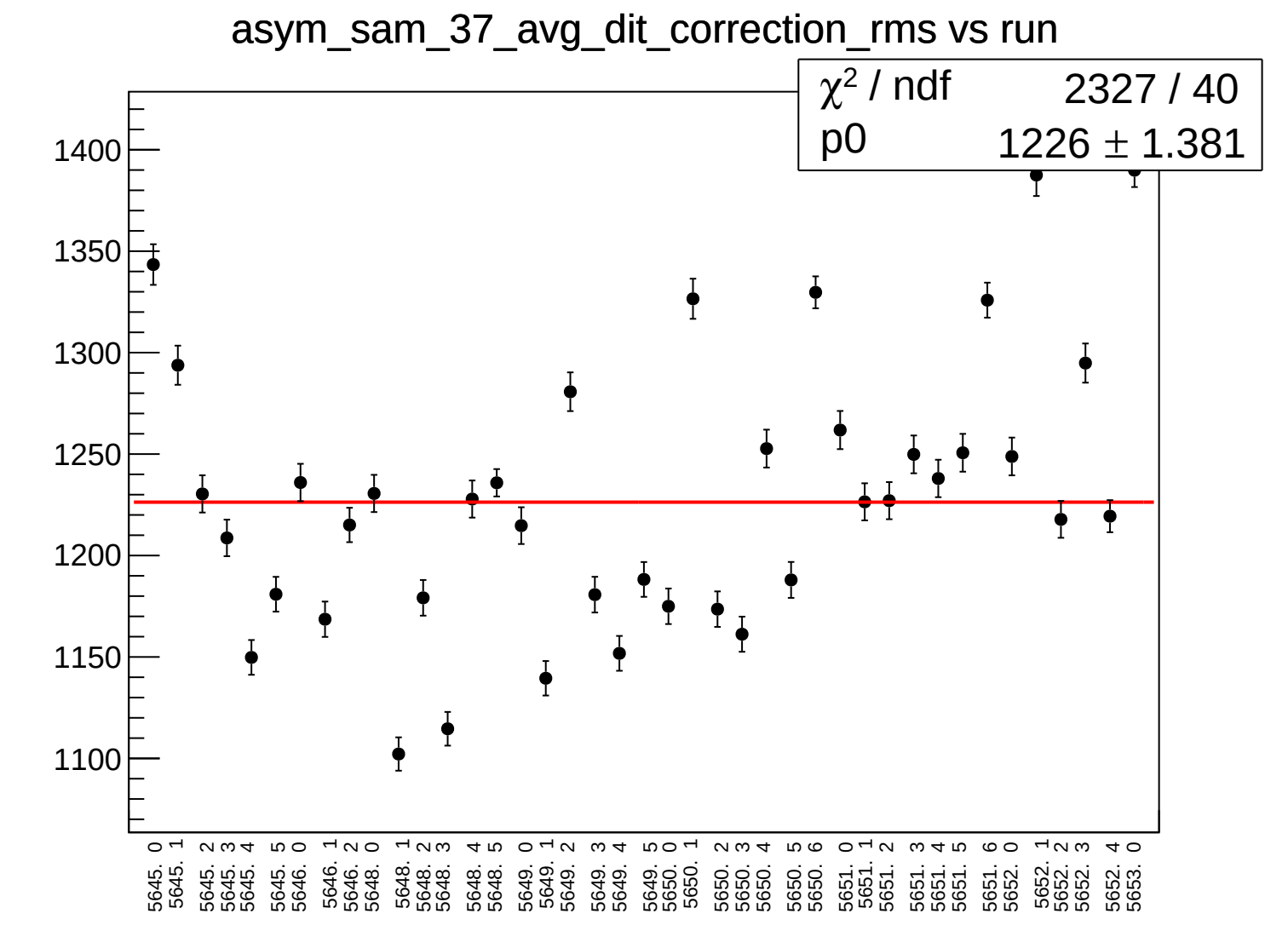

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 4951 / 40
p0 1304 ± 1.472
1600
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

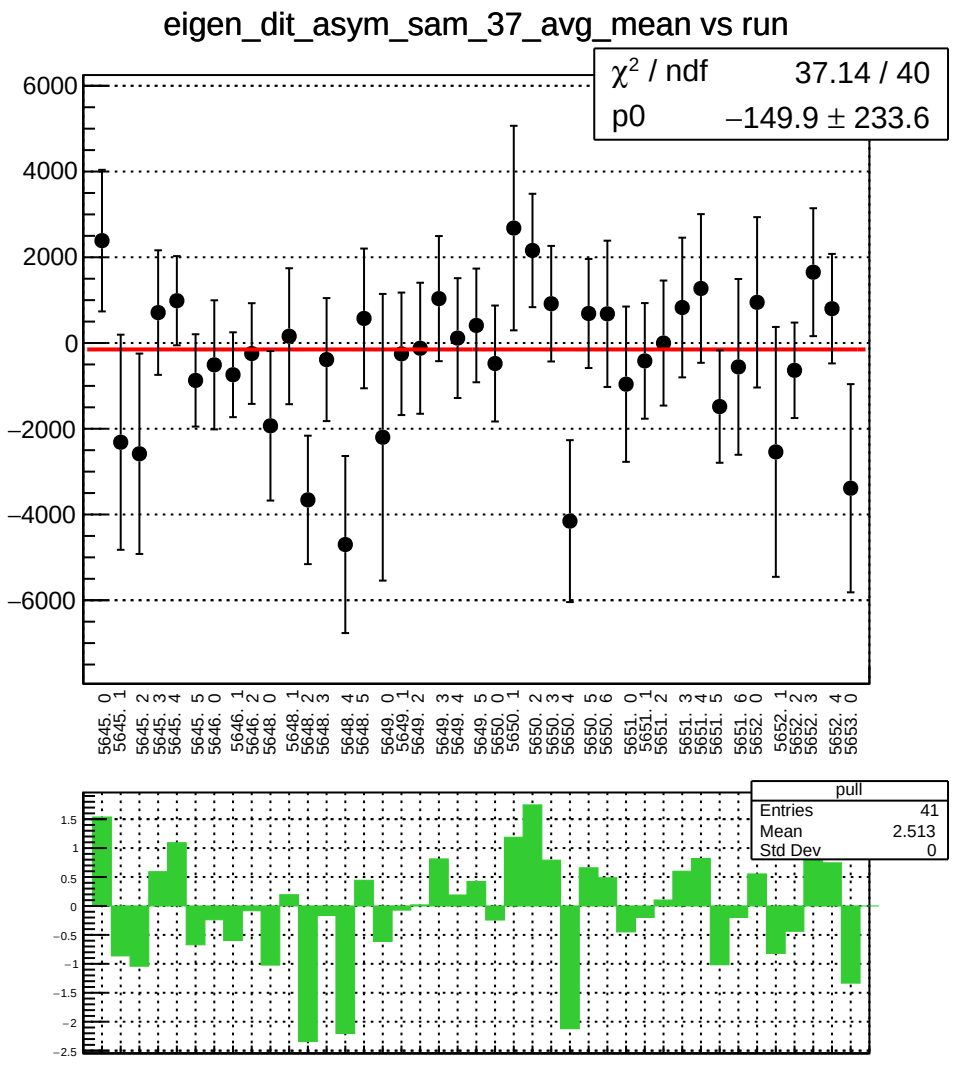

dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.14 / 40
p0 −149.9 ± 233.6
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2.514
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

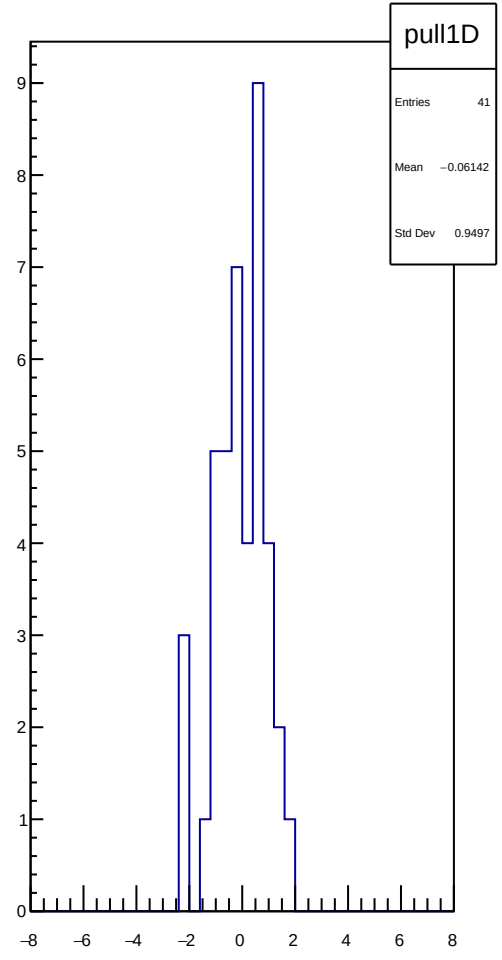

pull1D
Entries 41
Mean −0.06142
Std Dev 0.9497
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

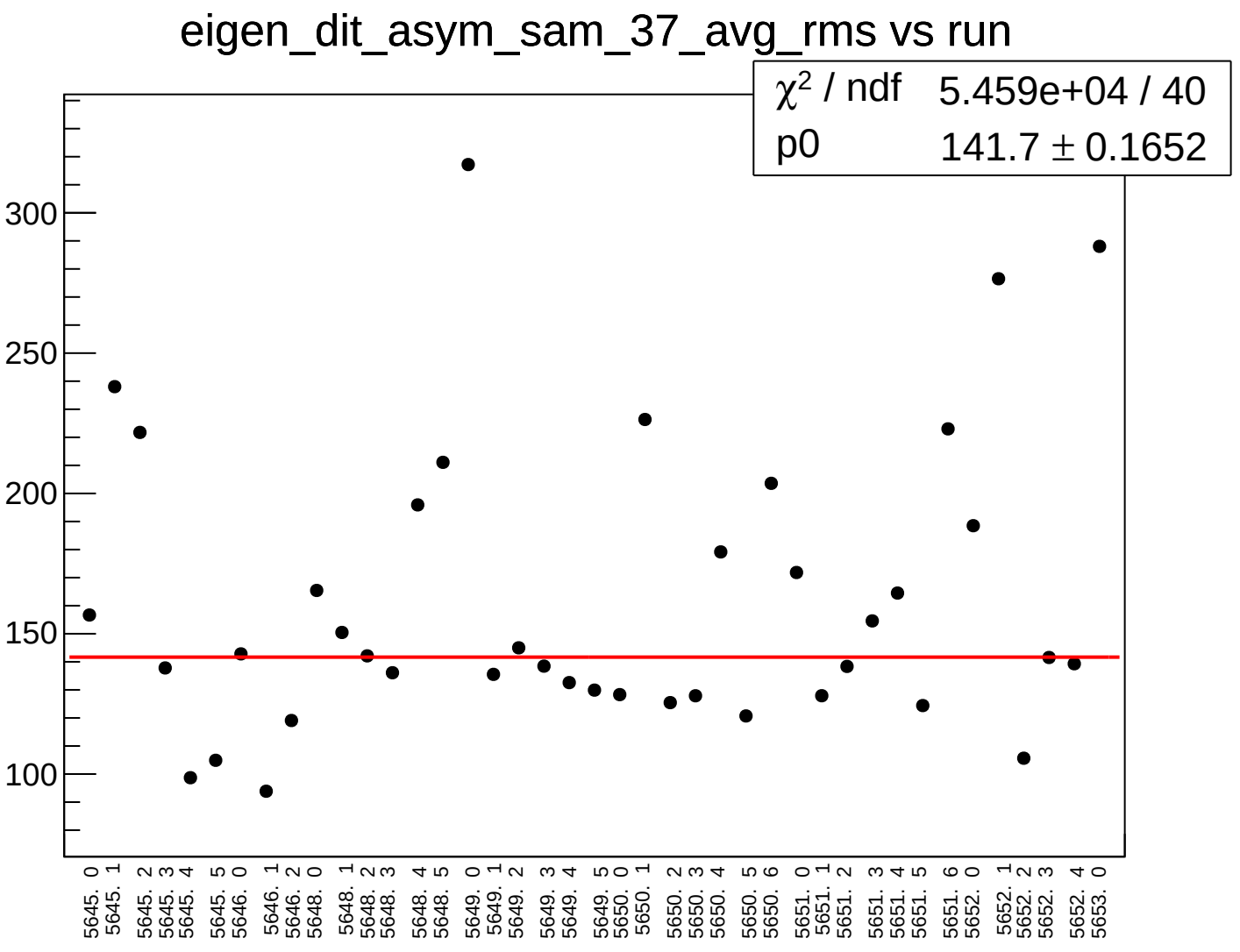

dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.459e+04 / 40
p0 141.7 ± 0.1652
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

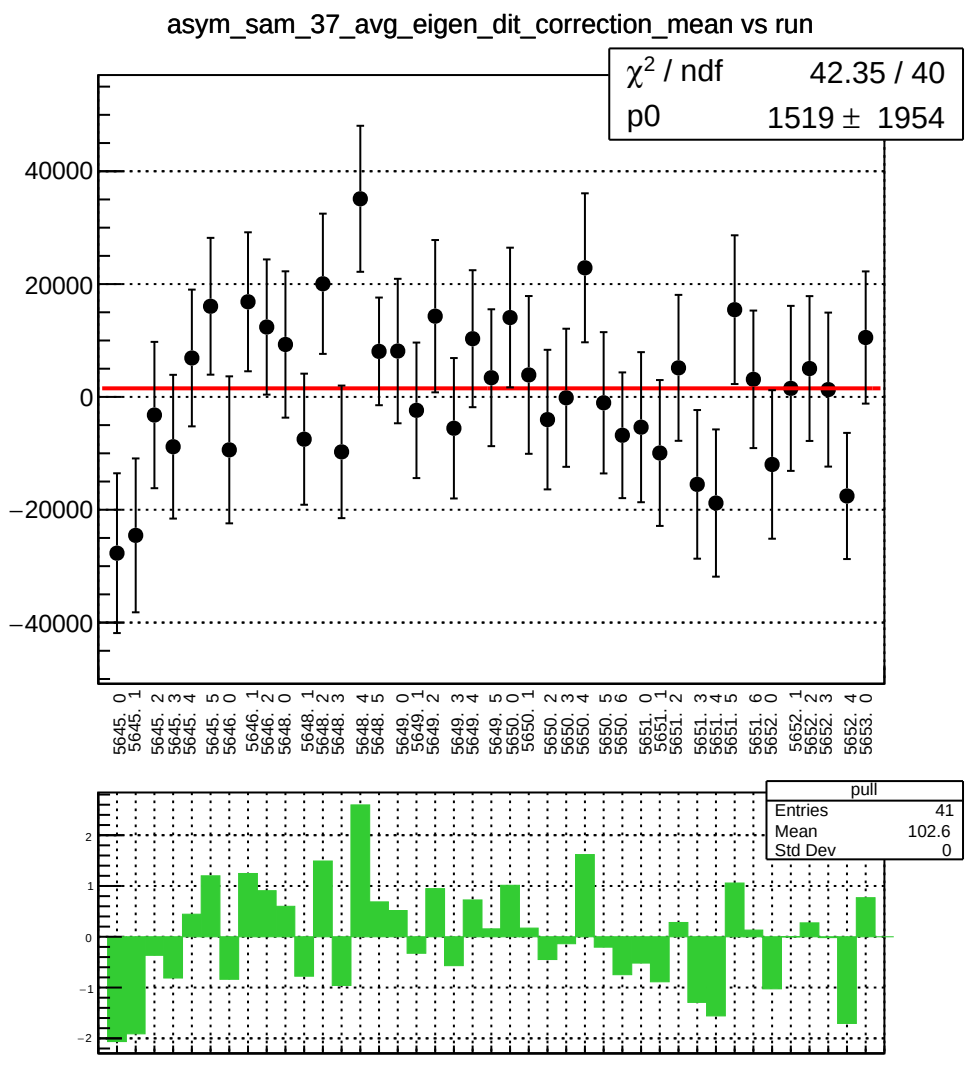

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 42.35 / 40
p0 1519 ± 1954
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 102.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.007928
Std Dev 1.016
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

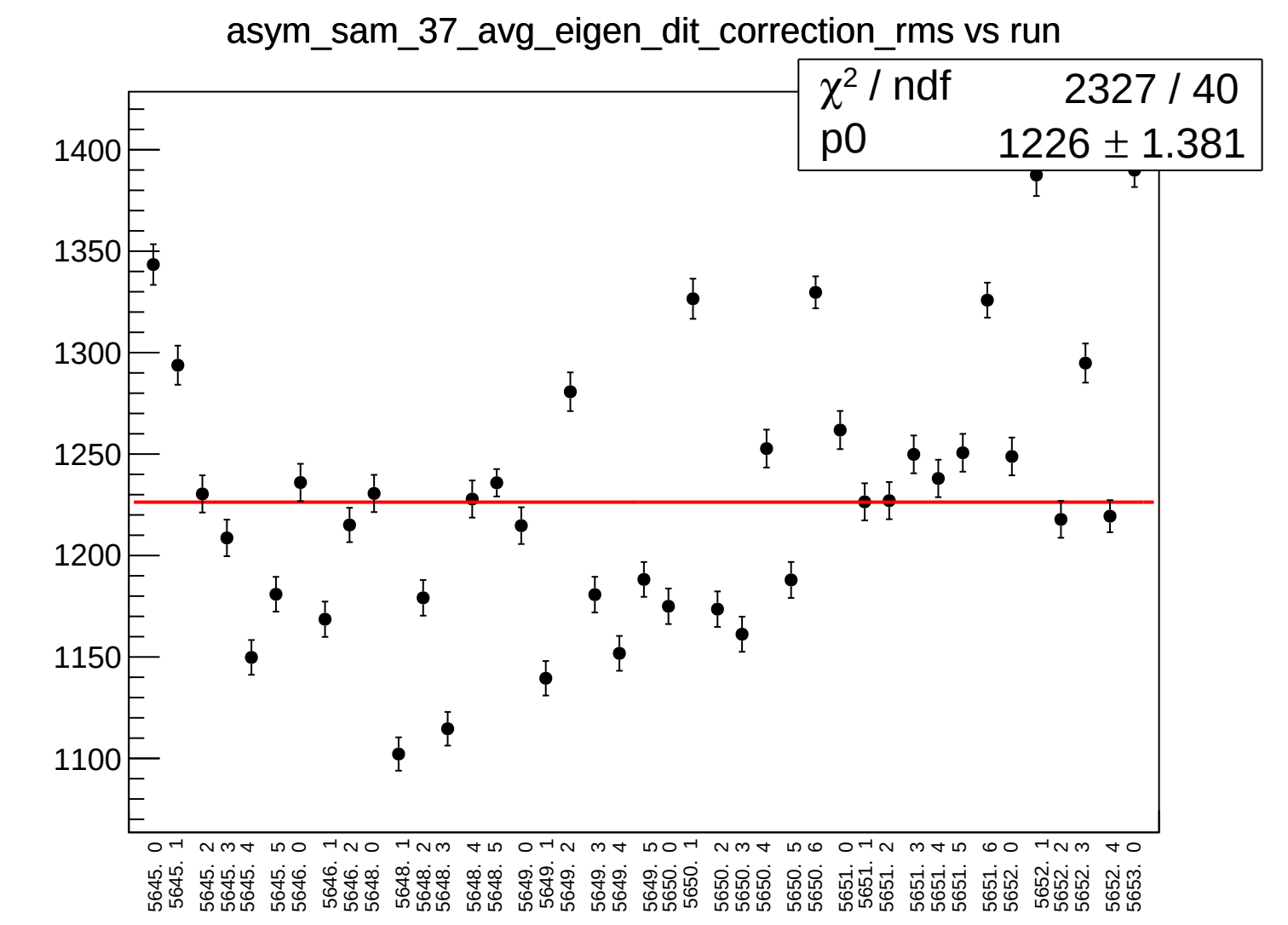

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2327 / 40
p0 1226 ± 1.381
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

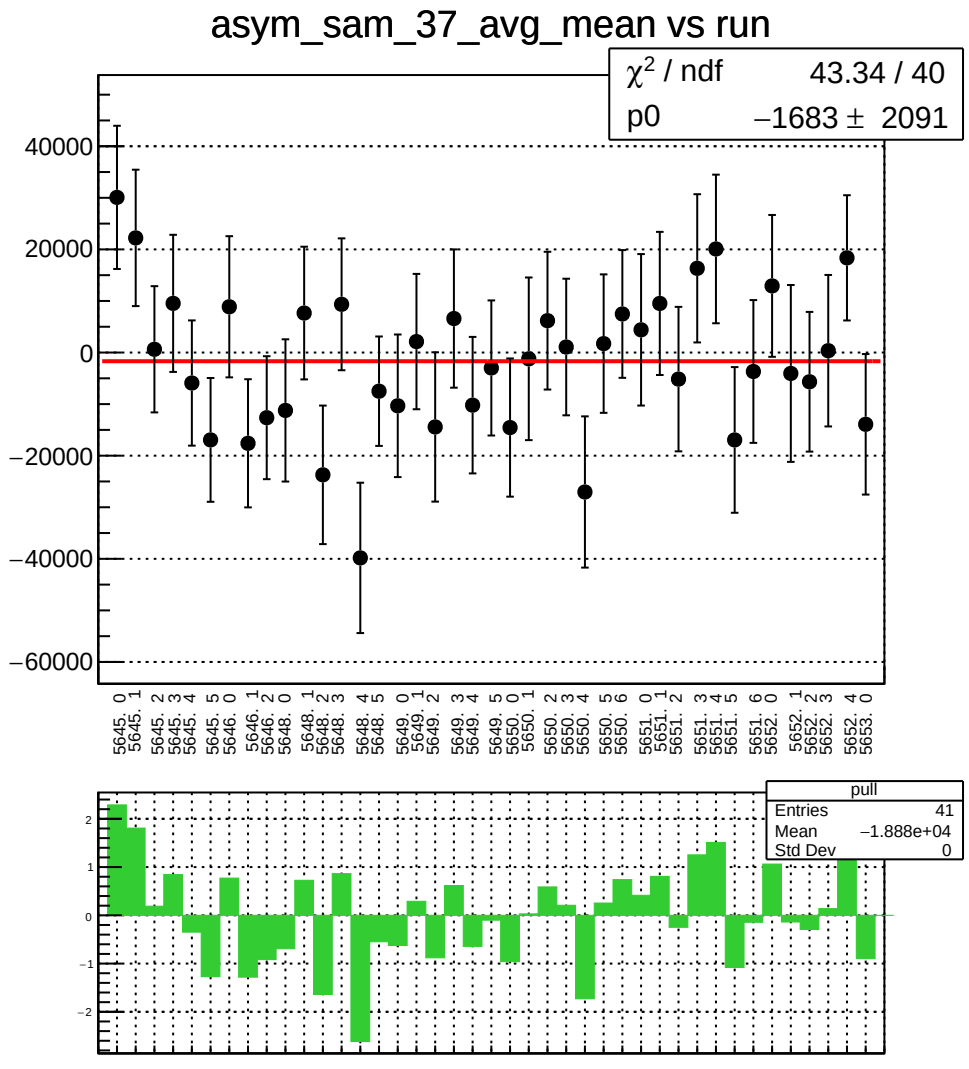

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.14 / 40
p0 −149.9 ± 233.6
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2.513
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

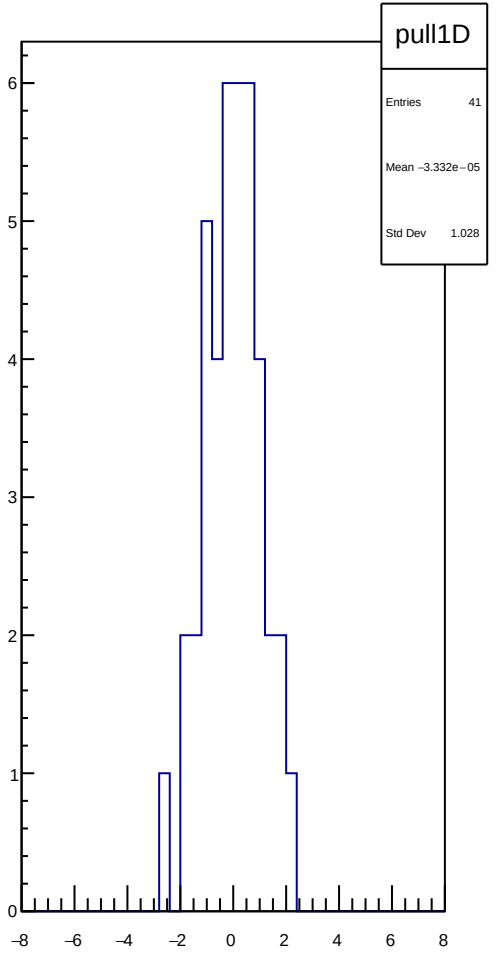

pull1D
Entries 41
Mean −0.06142
Std Dev 0.9497
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

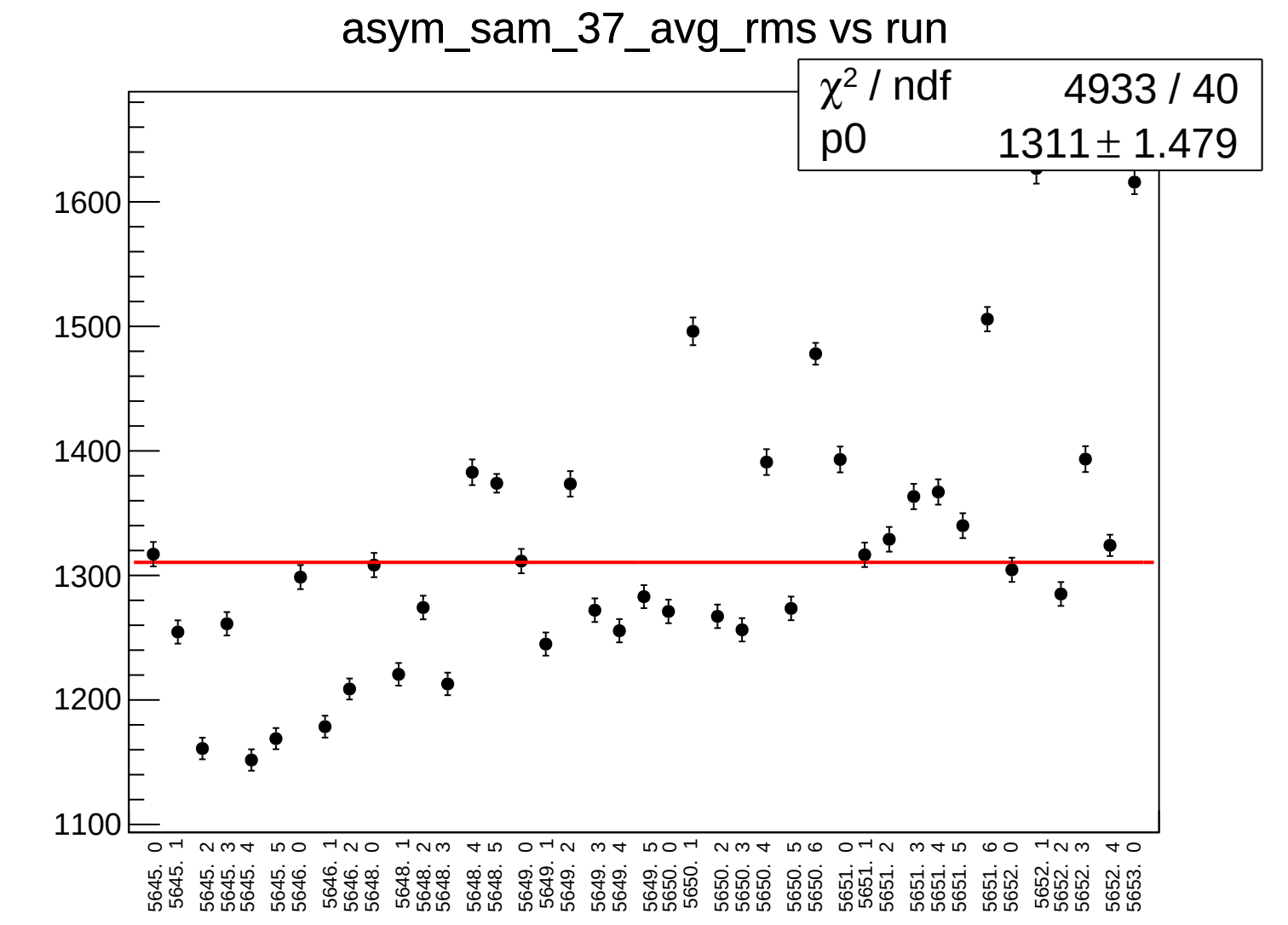

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.459e+04 / 40
p0 141.7 ± 0.1652
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

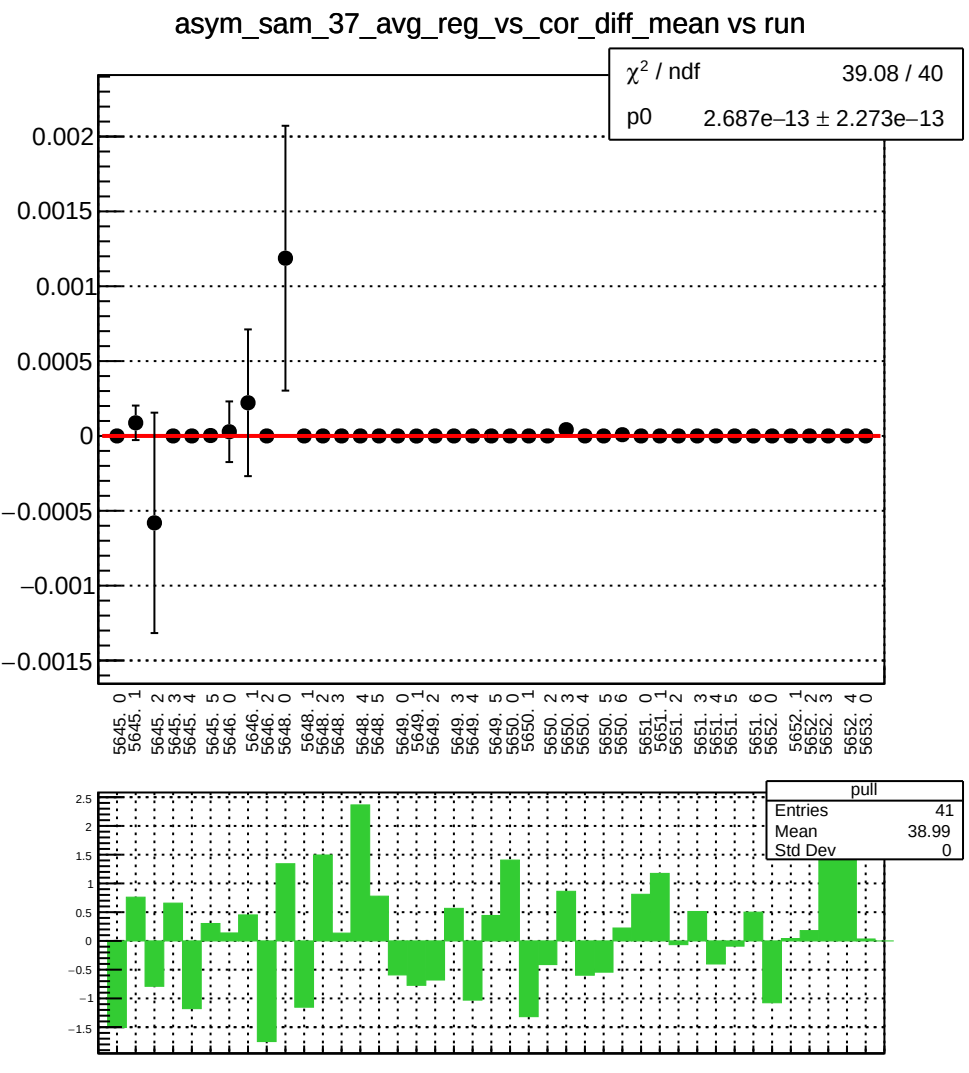

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 42.35 / 40
p0 1519 ± 1954
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 102.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.007928
Std Dev 1.016
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

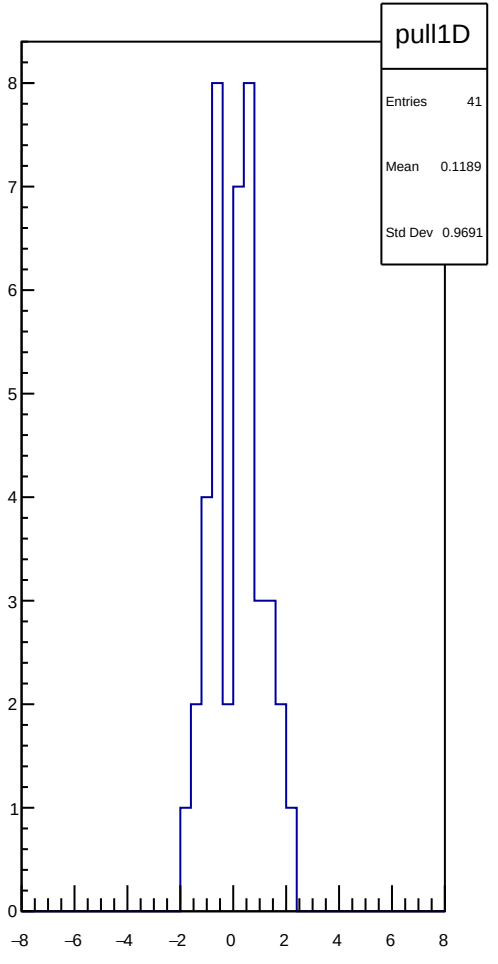

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2327 / 40
p0 1226 ± 1.381
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

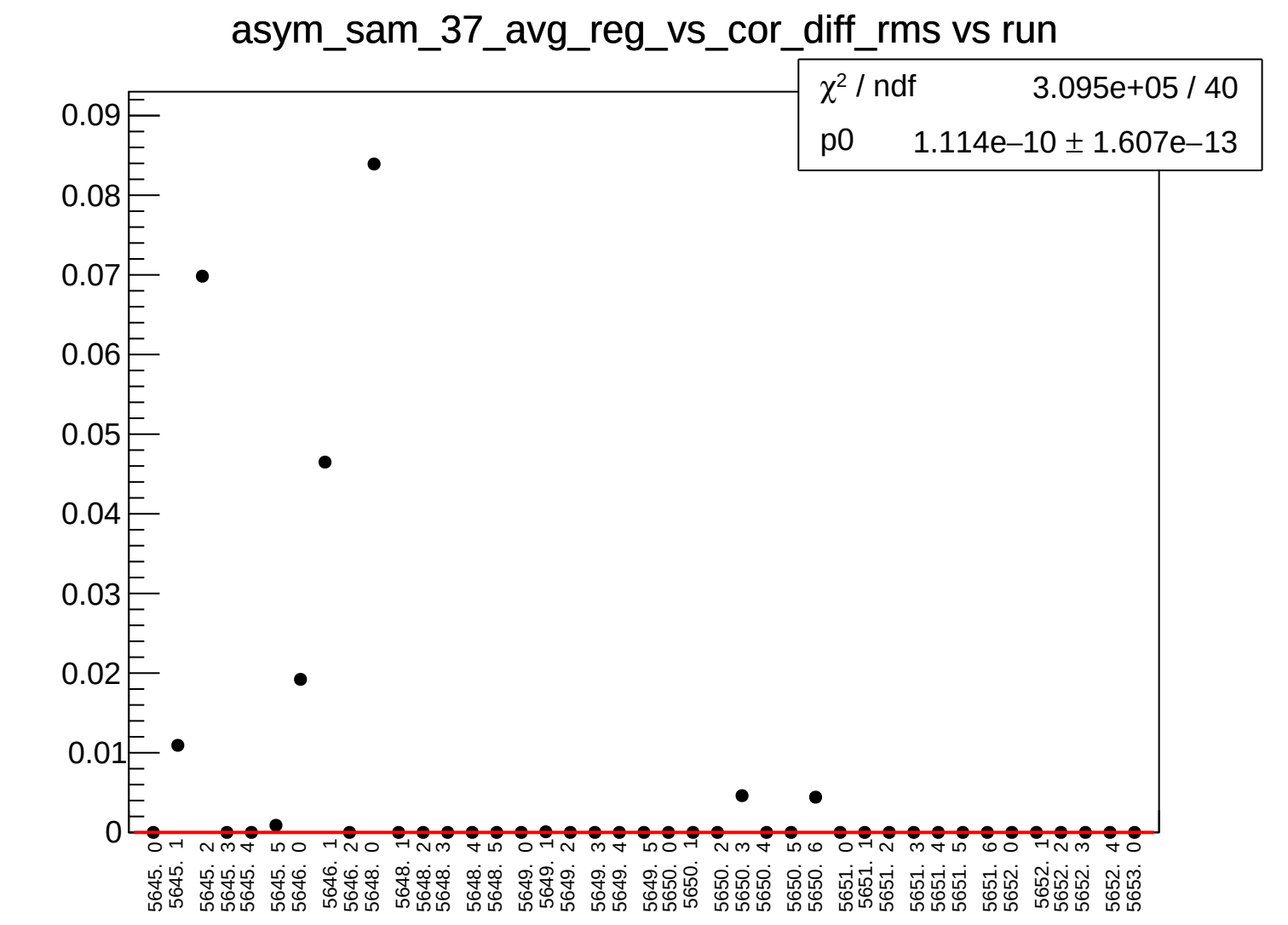

asym_sam_37_avg_mean vs run
χ² / ndf 43.34 / 40
p0 −1683 ± 2091
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.888e+04
Std Dev 0
2
1
0
−1
−2

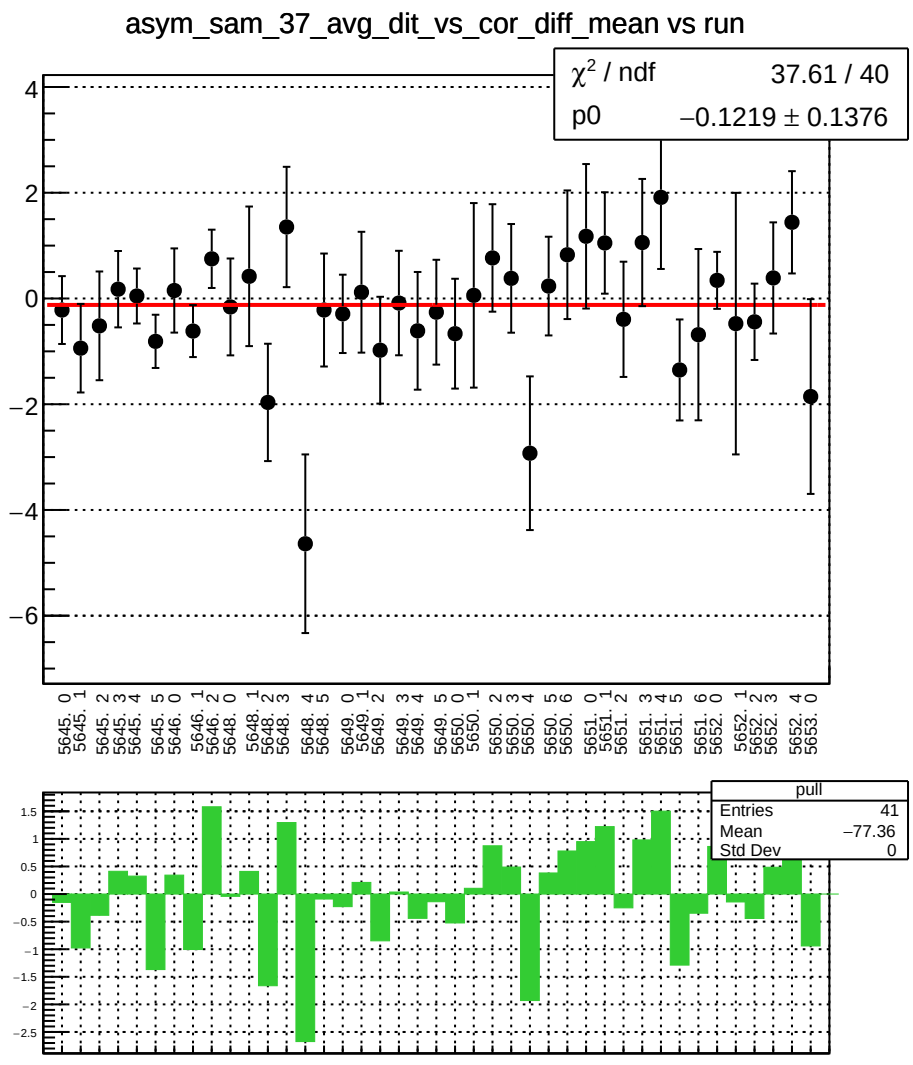

pull1D
Entries 41
Mean −3.332e−05
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

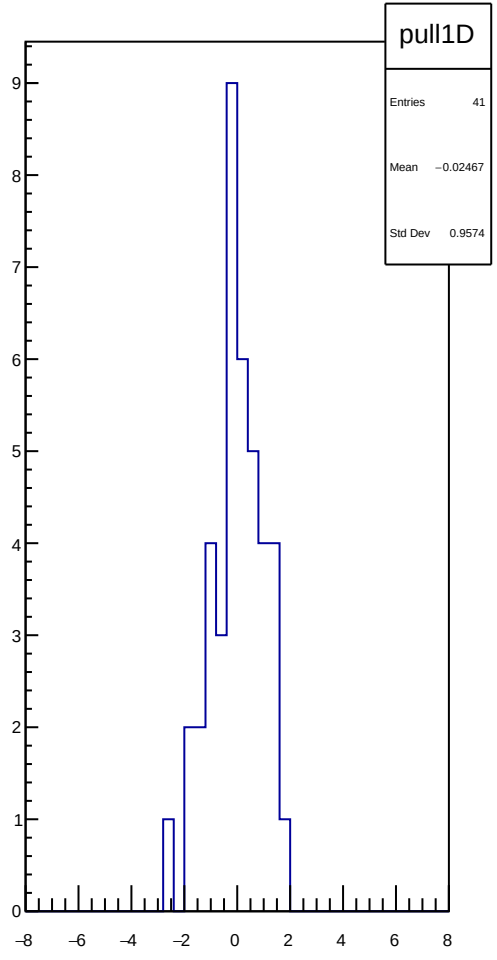

asym_sam_37_avg_rms vs run
χ² / ndf 4933 / 40
p0 1311 ± 1.479
1600
1500
1400
1300
1200
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

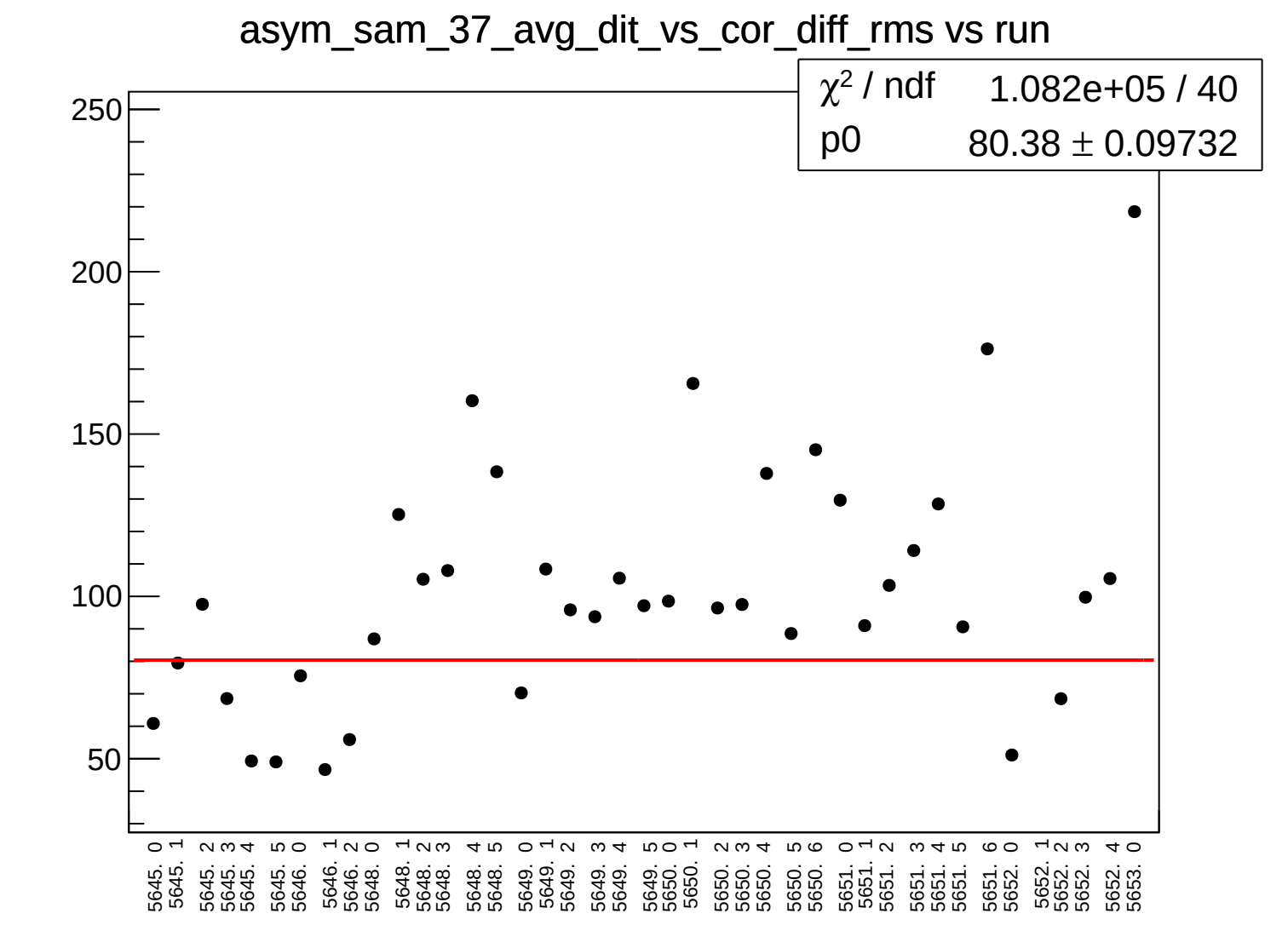

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 39.08 / 40
p0 2.687e−13 ± 2.273e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 38.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

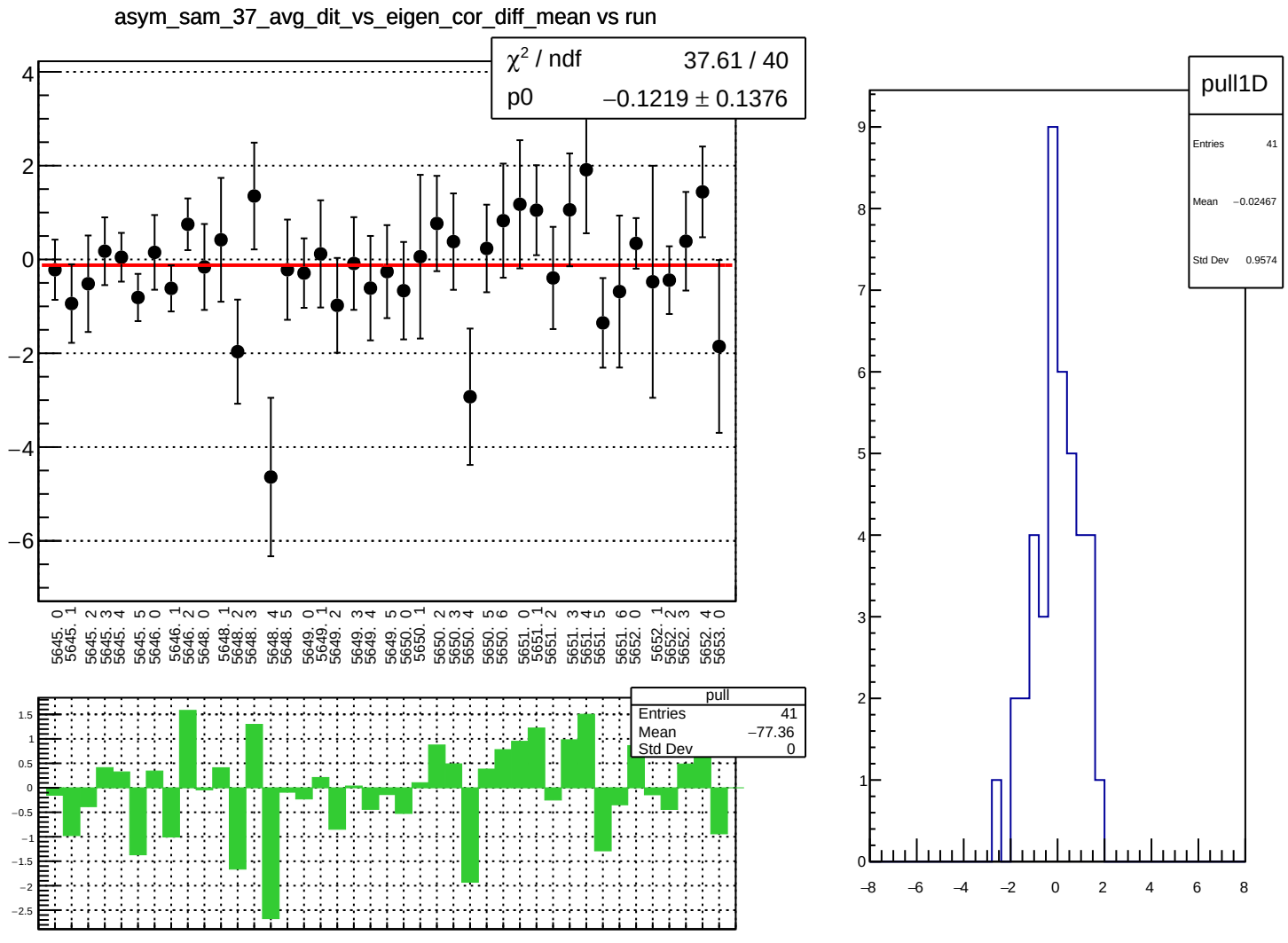

pull1D
Entries 41
Mean 0.1189
Std Dev 0.9691
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

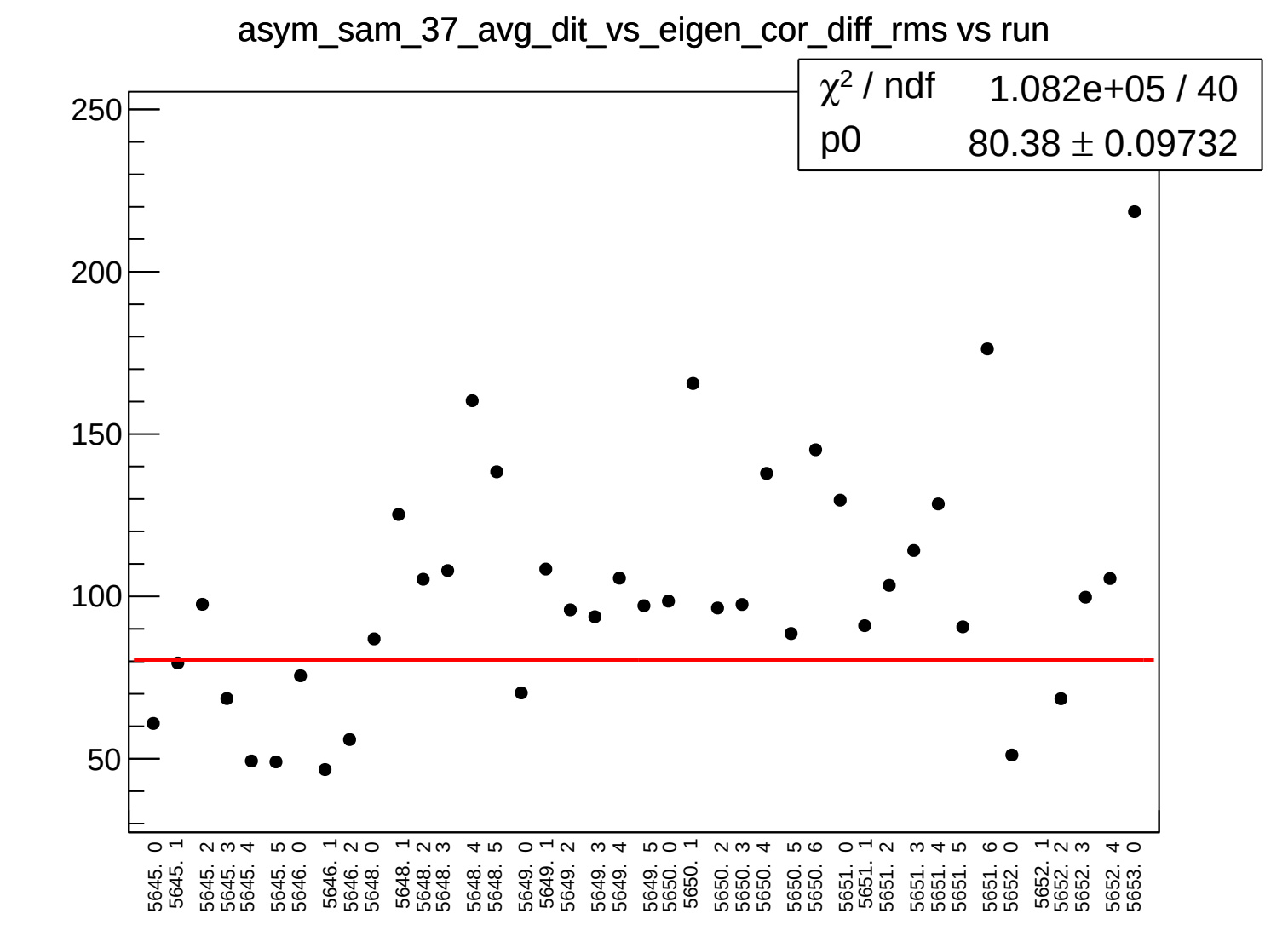

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.095e+05 / 40
p0 1.114e−10 ± 1.607e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

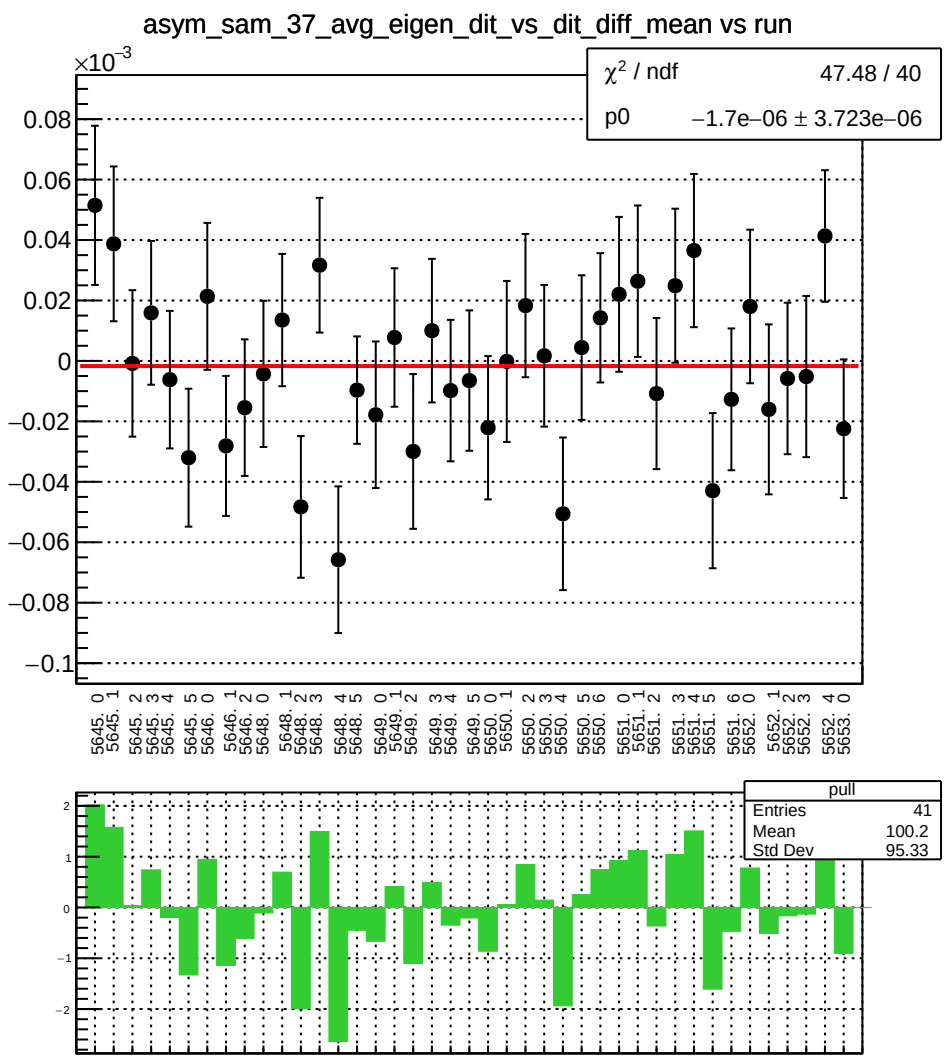

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 37.61 / 40
p0 −0.1219 ± 0.1376
pull
Entries 41
Mean −77.36
Std Dev 0

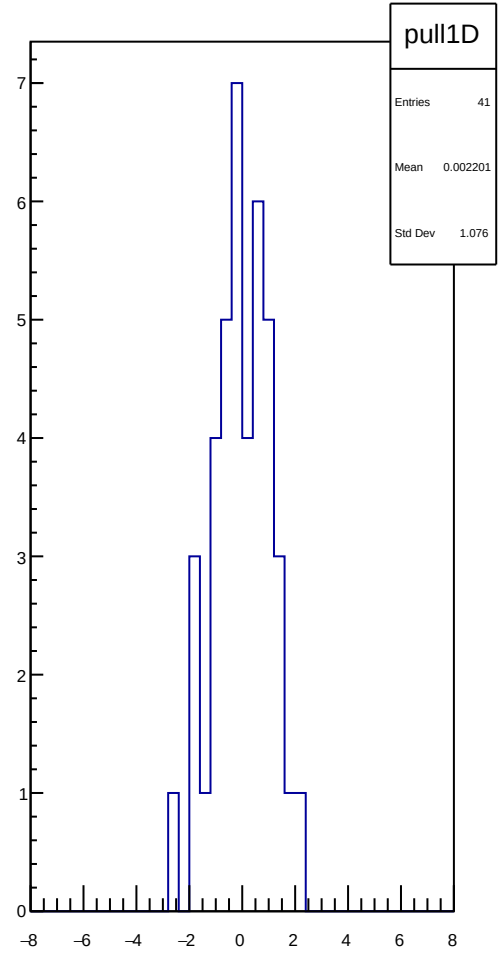

pull1D
Entries 41
Mean −0.02467
Std Dev 0.9574

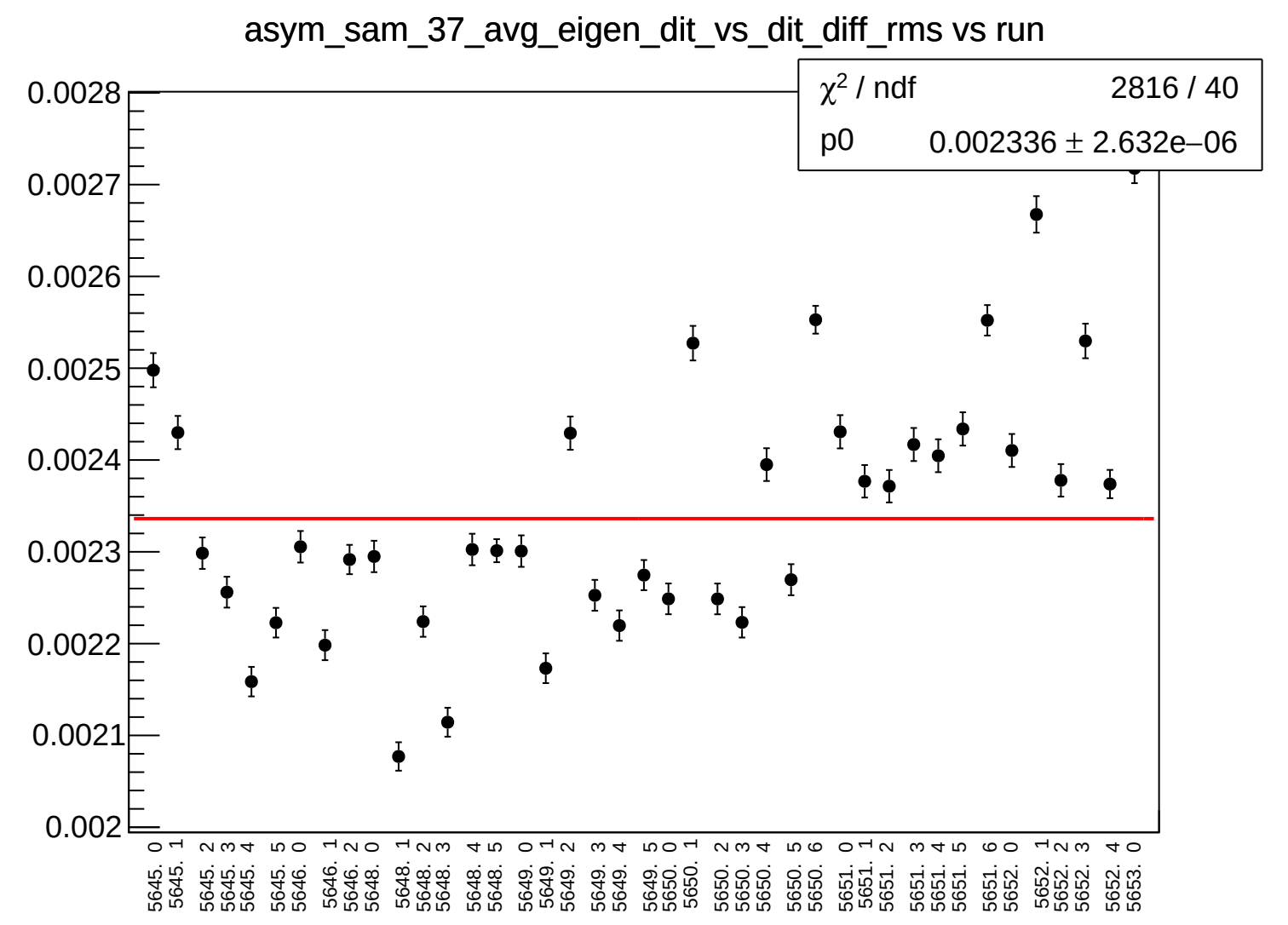

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 40
p0 80.38 ± 0.09732
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

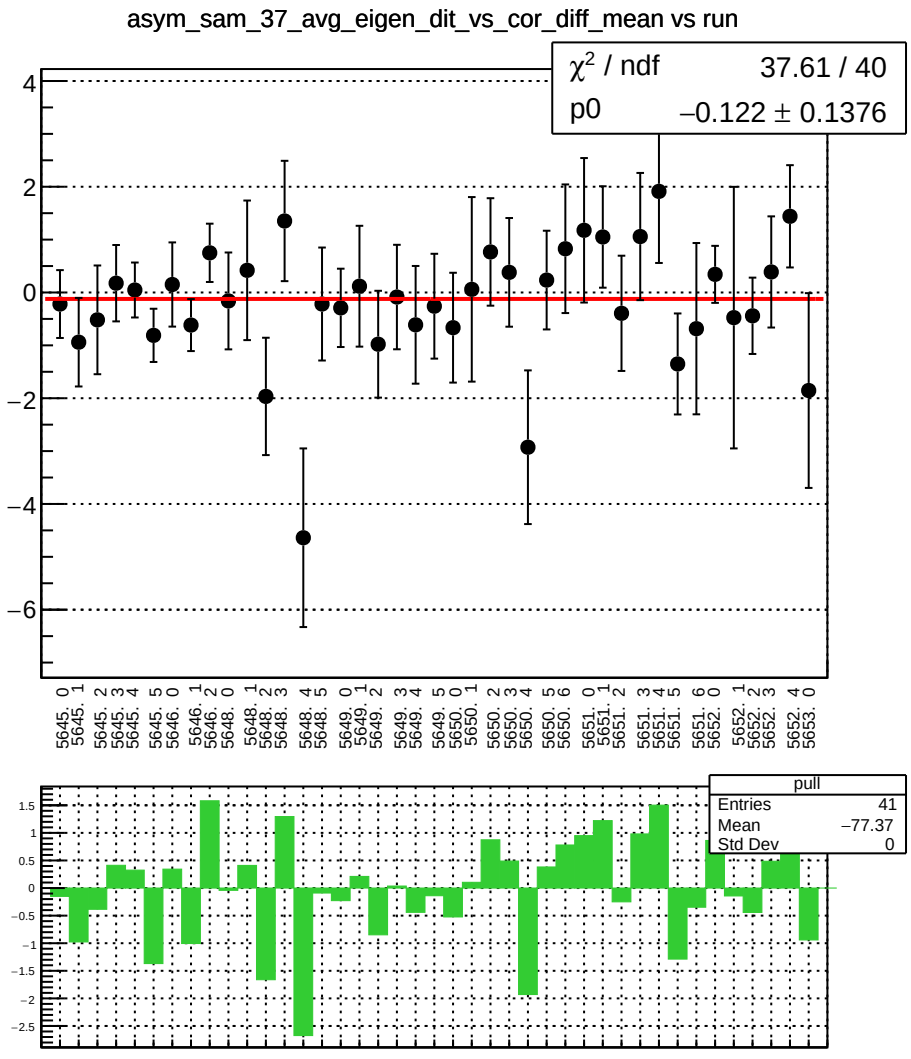

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.61 / 40
p0 −0.1219 ± 0.1376
pull
Entries 41
Mean −77.36
Std Dev 0
pull1D
Entries 41
Mean −0.02467
Std Dev 0.9574

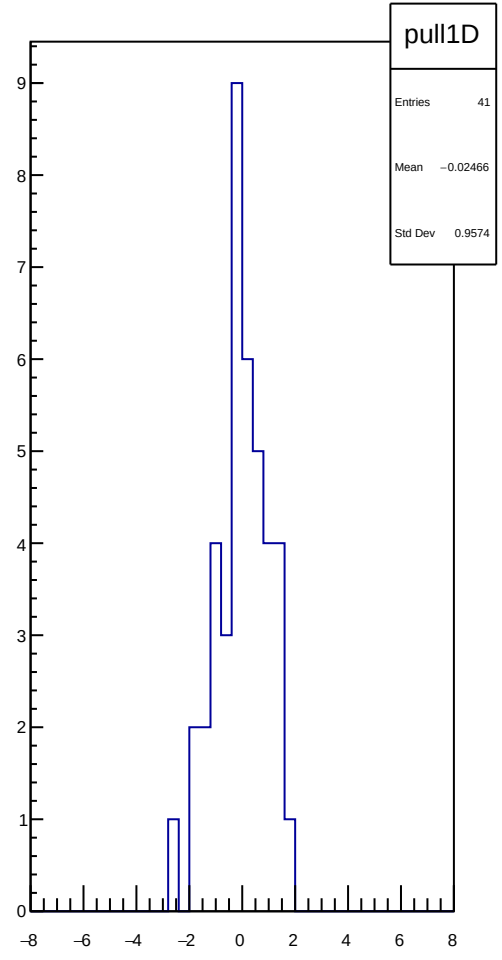

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 40
p0 80.38 ± 0.09732
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

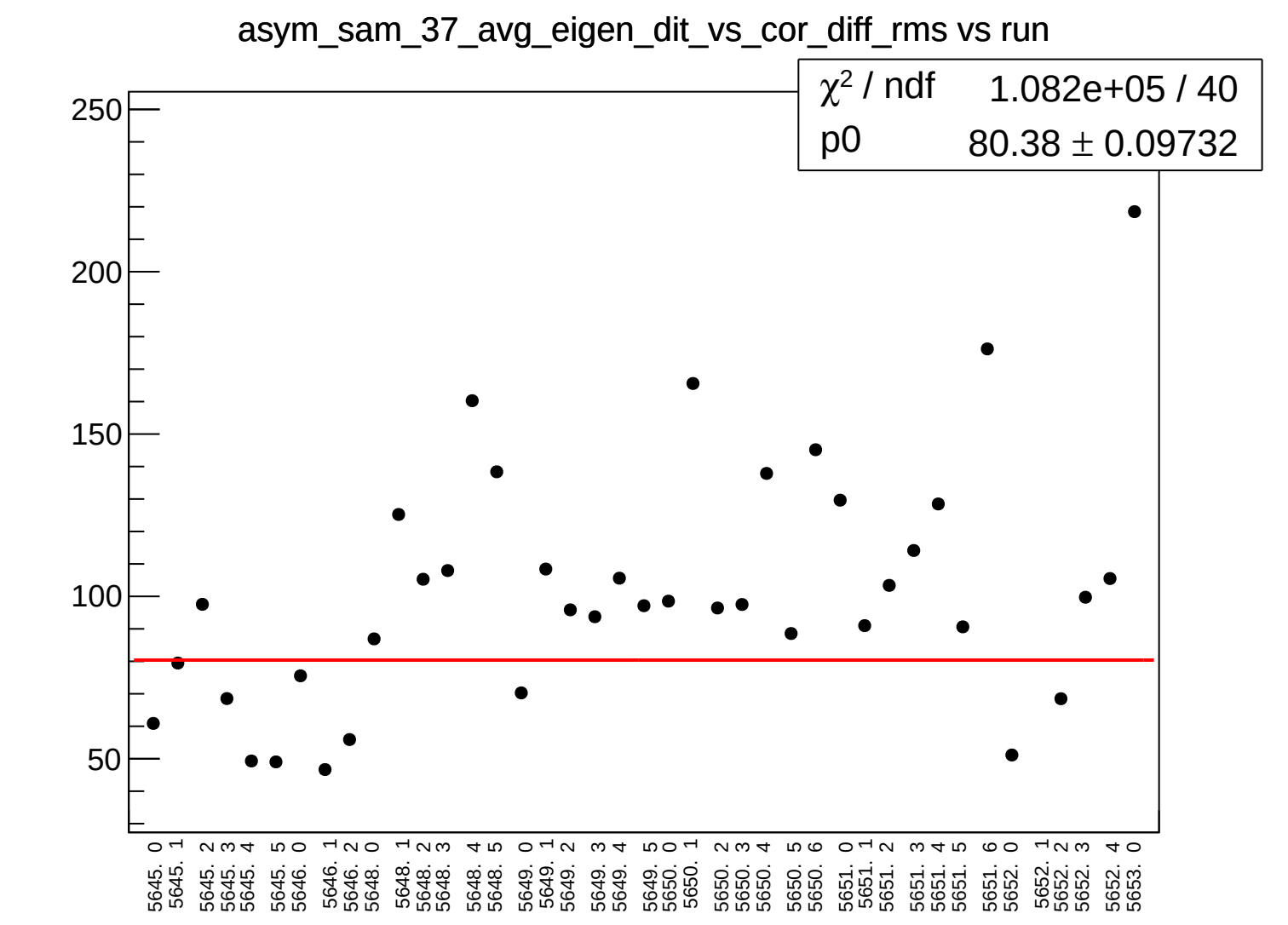

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.48 / 40
p0 −1.7e−06 ± 3.723e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 100.2
Std Dev 95.33
2
1
0
−1
−2

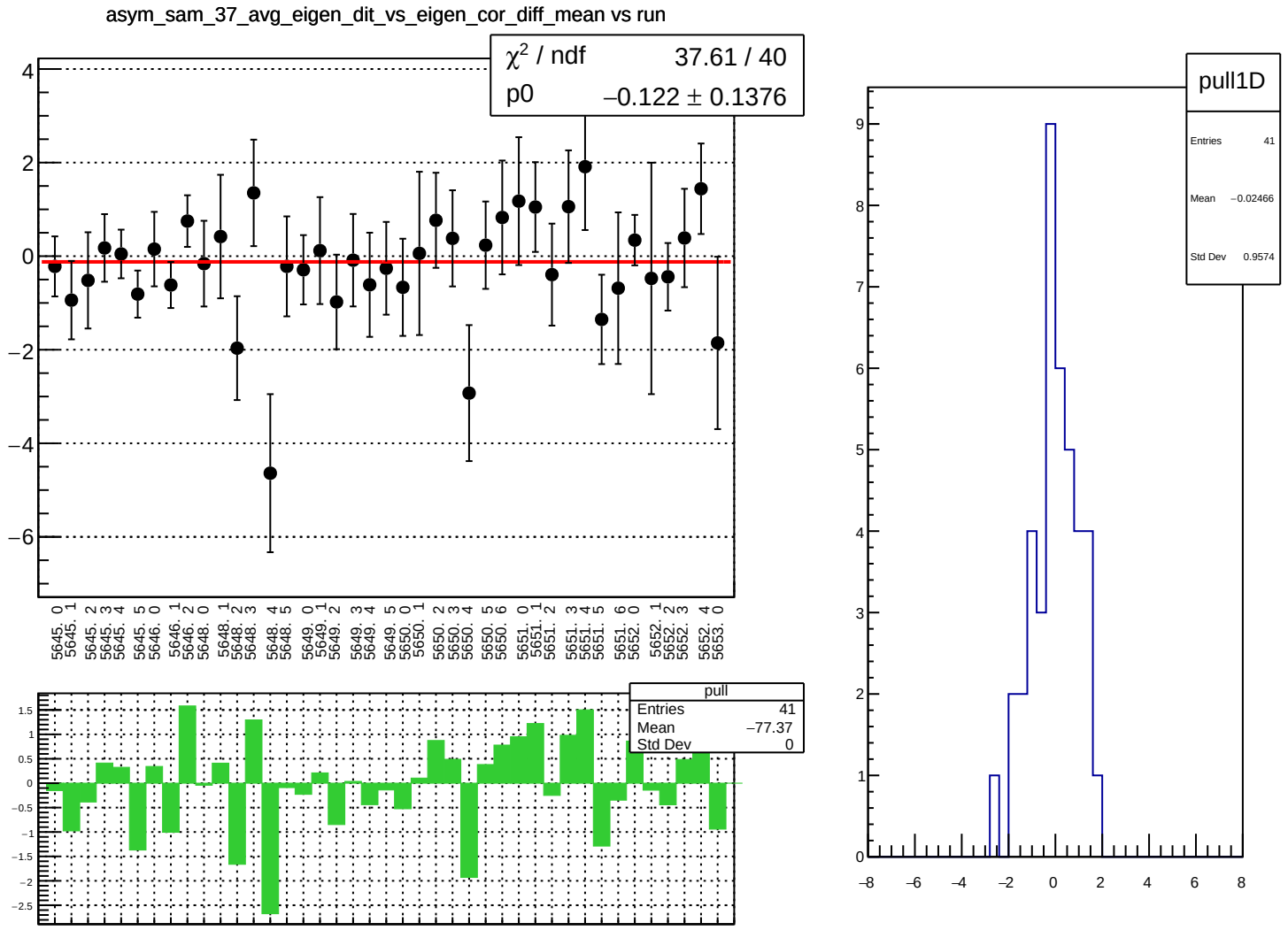

pull1D
Entries 41
Mean 0.002201
Std Dev 1.076
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

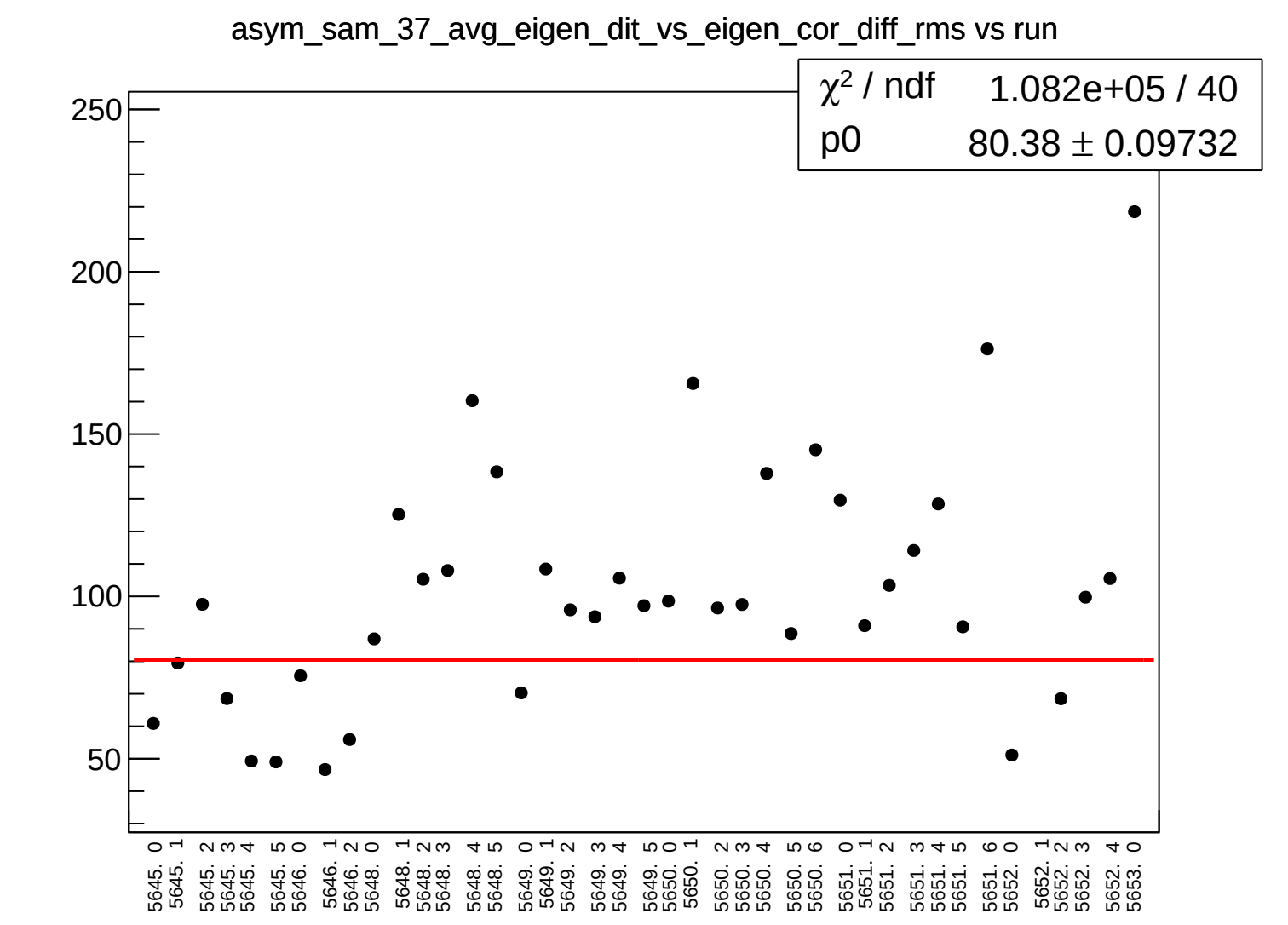

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2816 / 40
p0 0.002336 ± 2.632e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

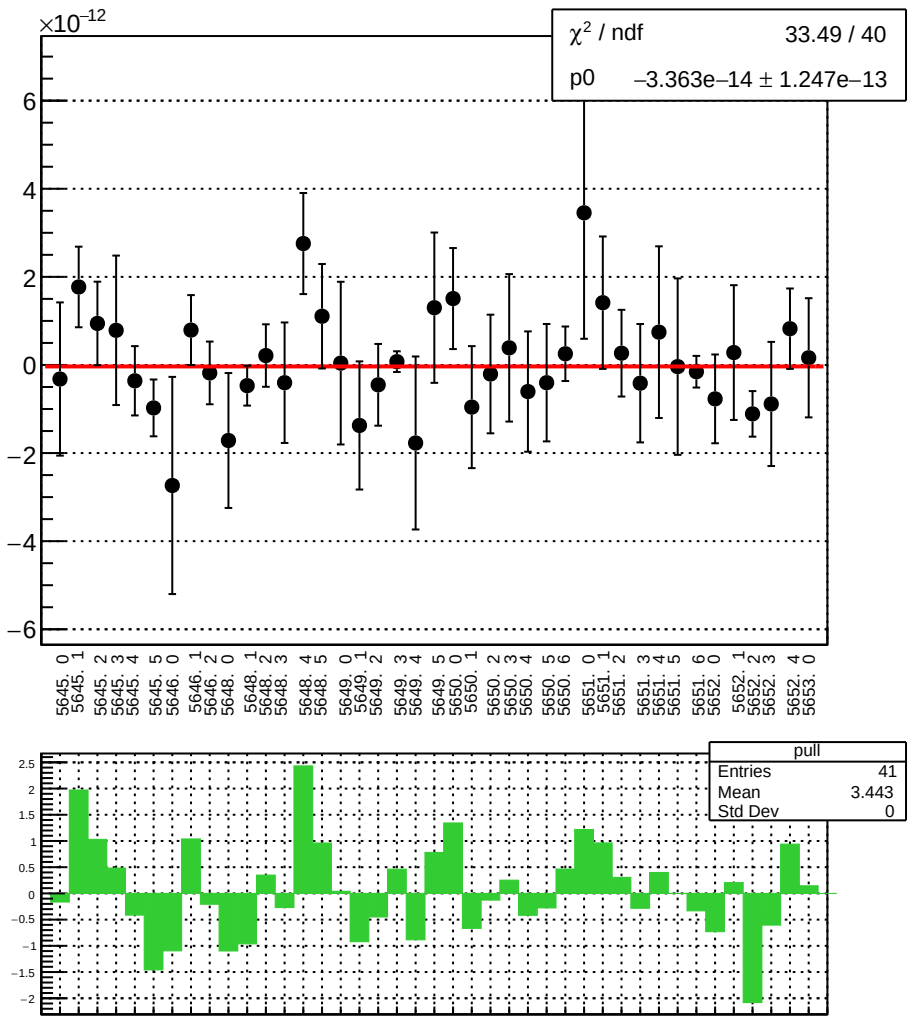

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.61 / 40
p0 −0.122 ± 0.1376
pull
Entries 41
Mean −77.37
Std Dev 0

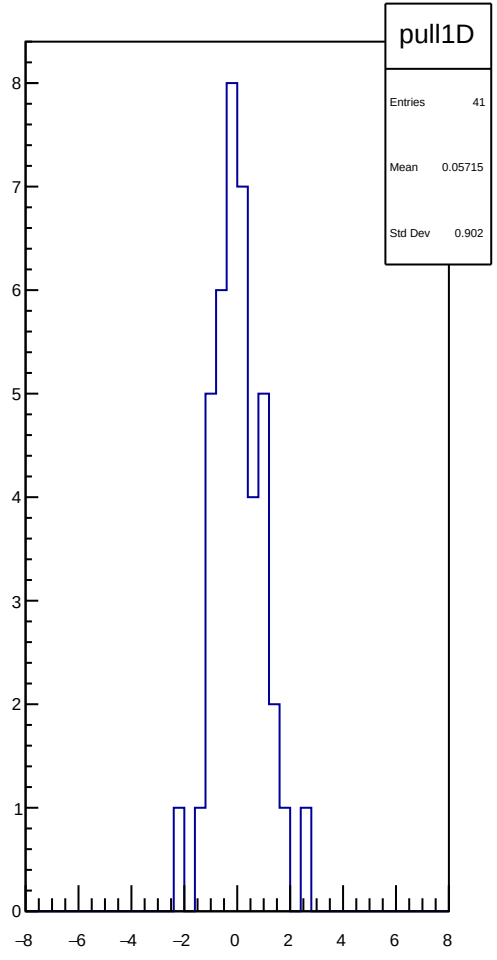

pull1D
Entries 41
Mean −0.02466
Std Dev 0.9574

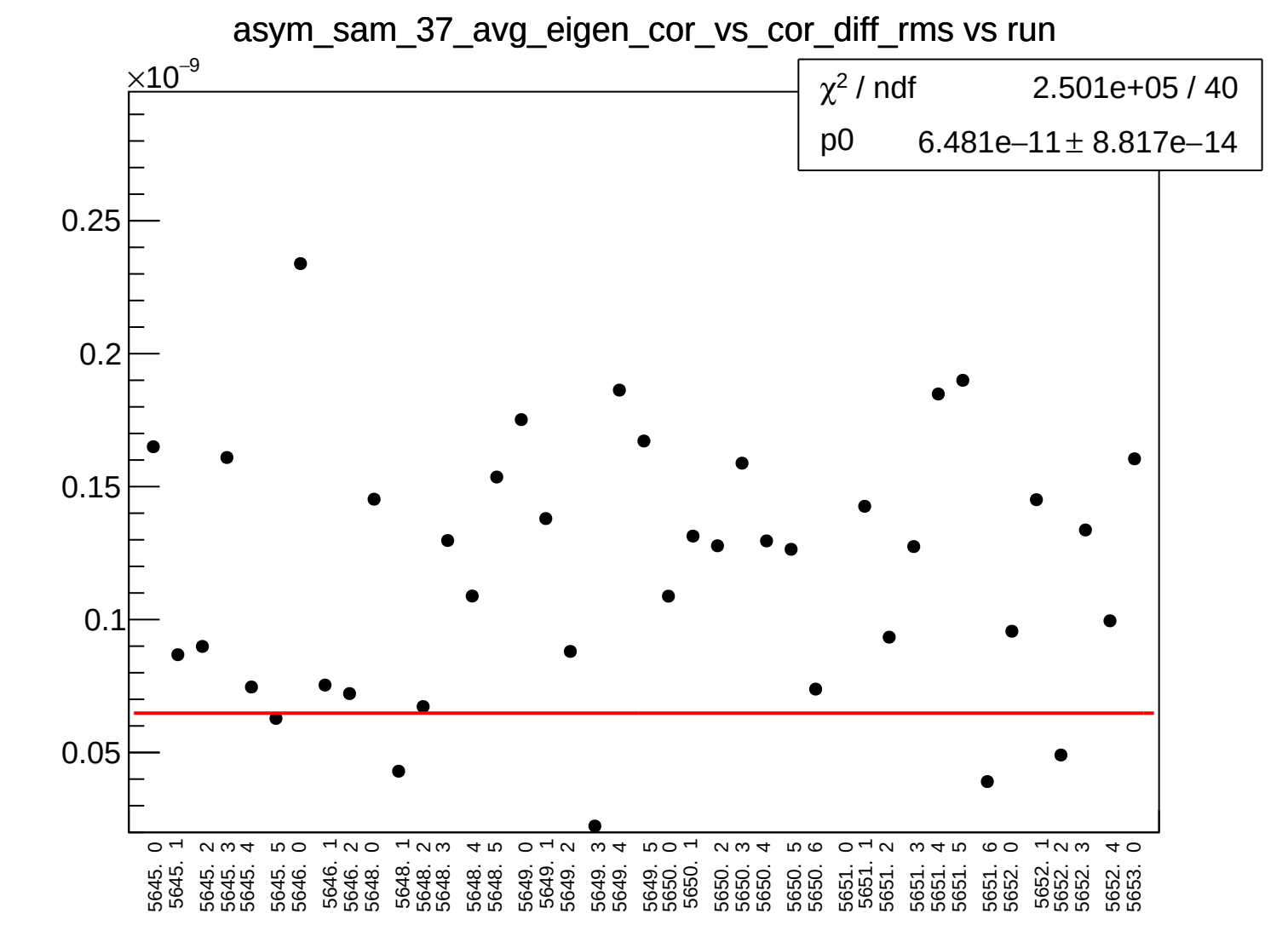

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 40
p0 80.38 ± 0.09732
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

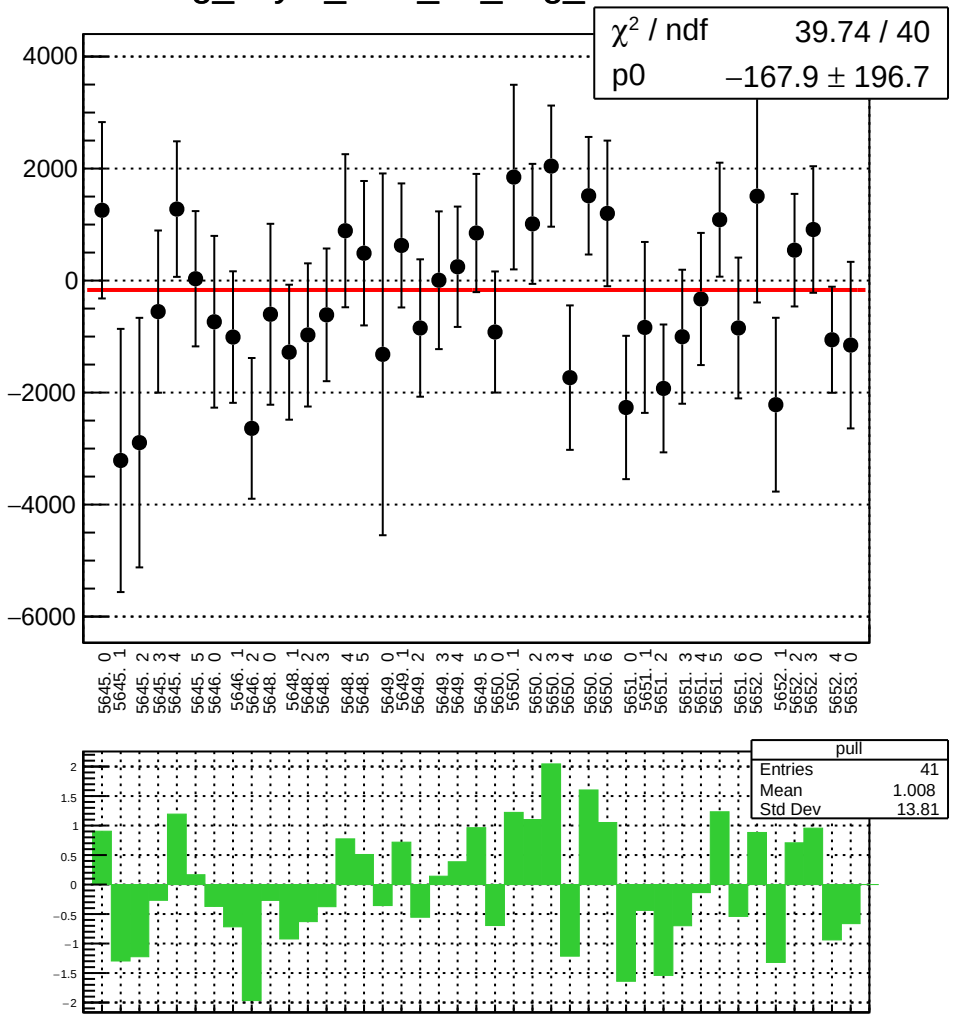

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.61 / 40
p0 −0.122 ± 0.1376
pull
Entries 41
Mean −77.37
Std Dev 0
pull1D
Entries 41
Mean −0.02466
Std Dev 0.9574

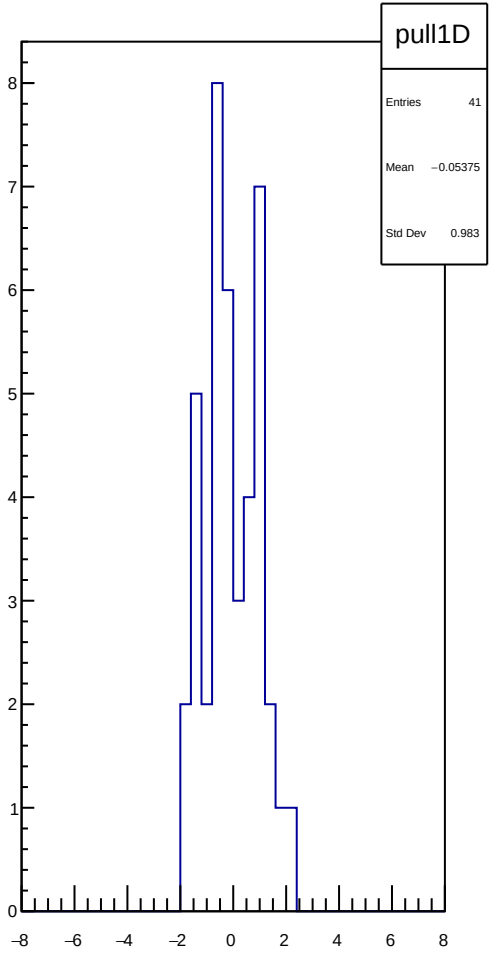

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.082e+05 / 40
p0 80.38 ± 0.09732
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

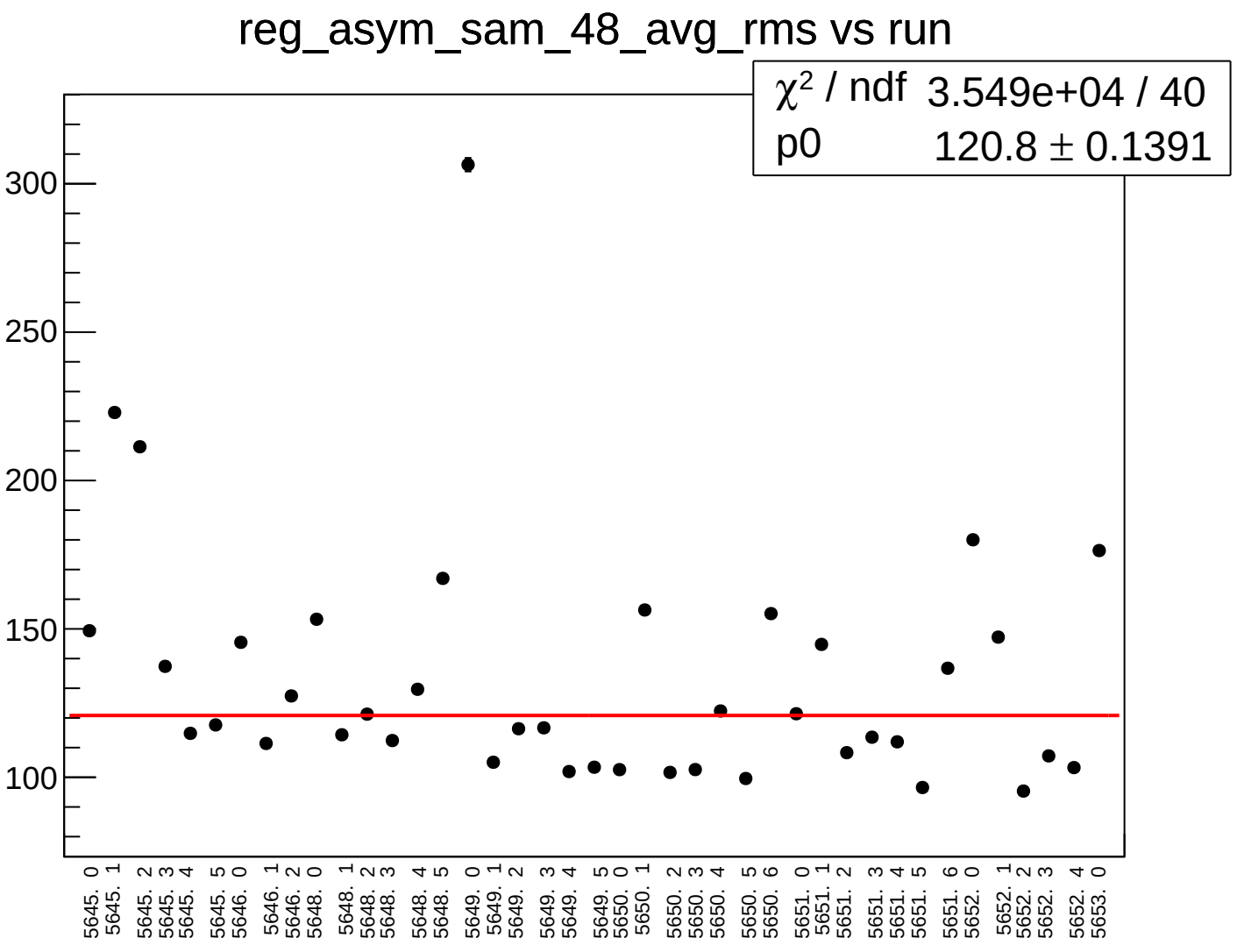

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 33.49 / 40
p0 −3.363e−14 ± 1.247e−13
pull
Entries 41
Mean 3.443
Std Dev 0

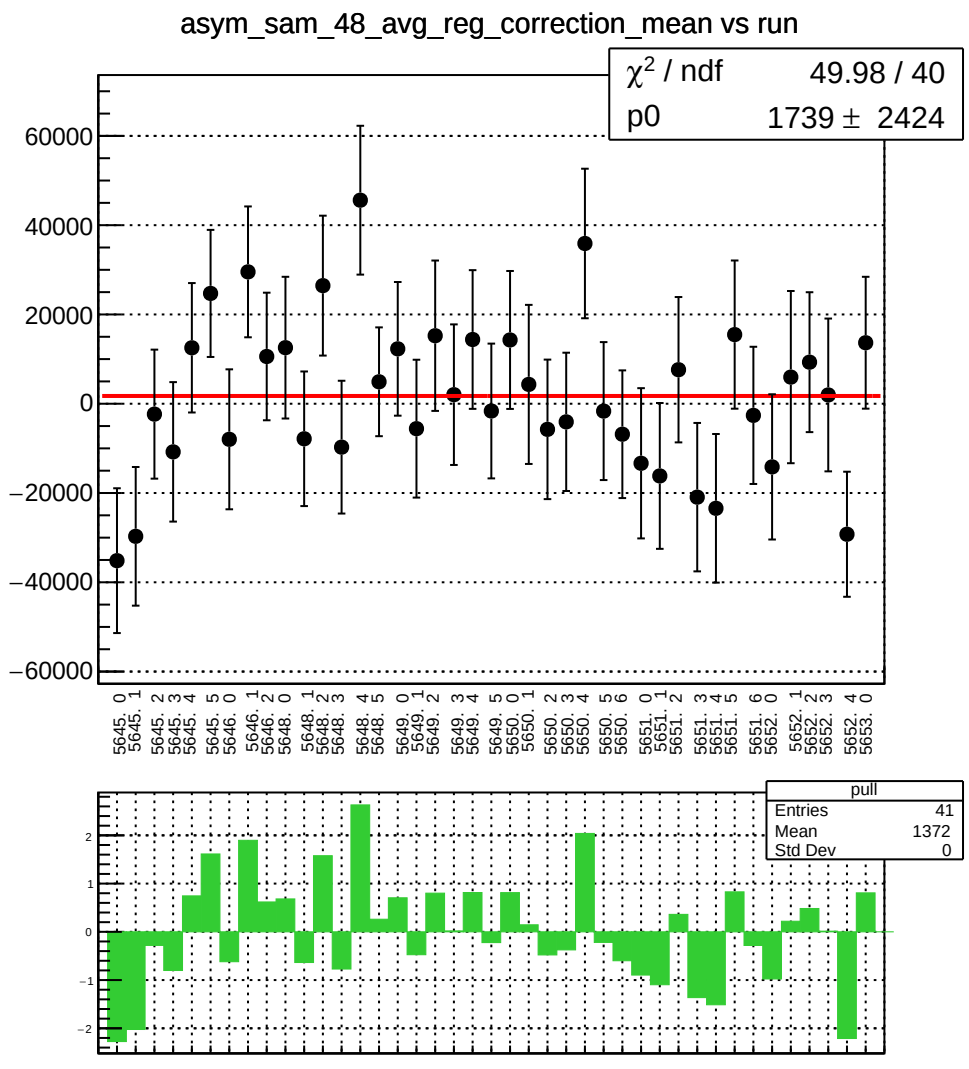

pull1D
Entries 41
Mean 0.05715
Std Dev 0.902

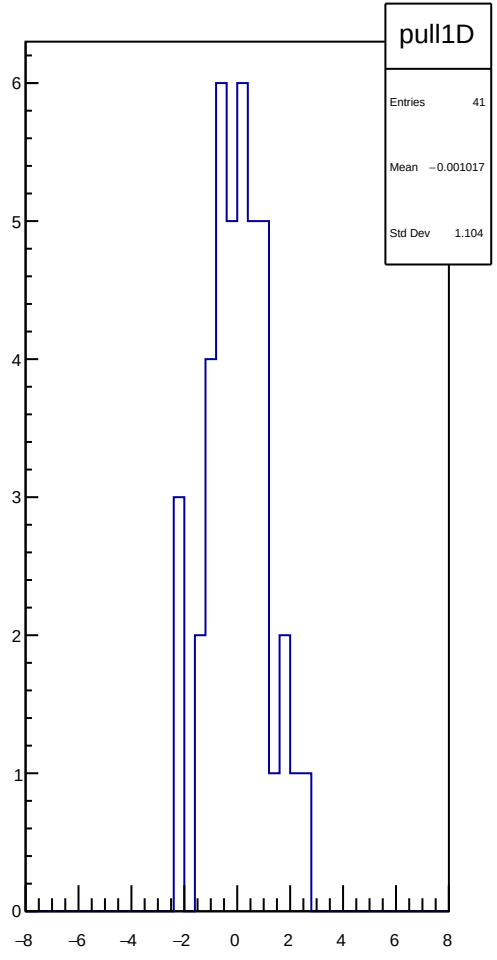

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.501e+05 / 40
p0 6.481e−11 ± 8.817e−14
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

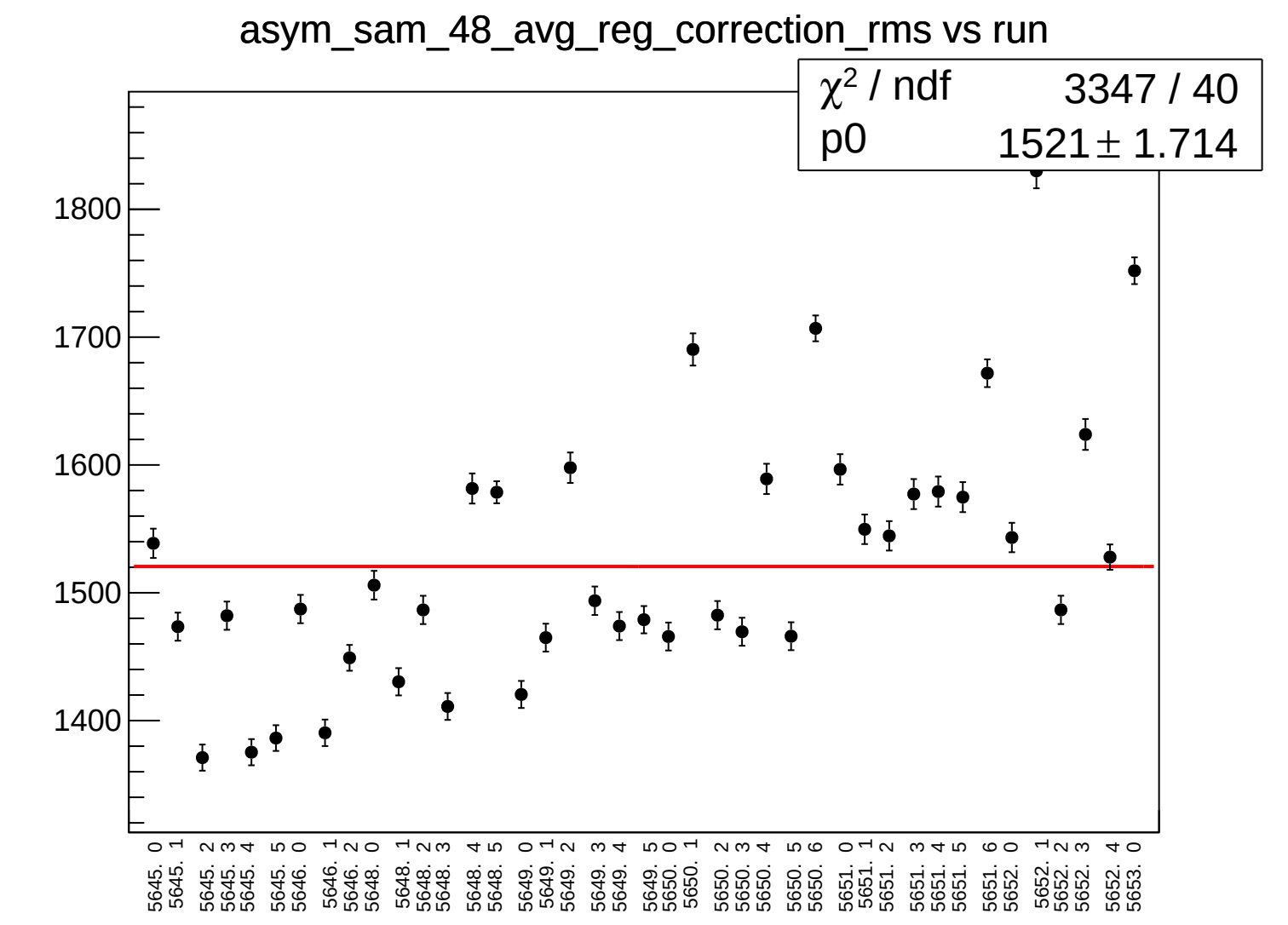

reg_asym_sam_48_avg_mean vs run
χ² / ndf 39.74 / 40
p0 −167.9 ± 196.7
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.008
Std Dev 13.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

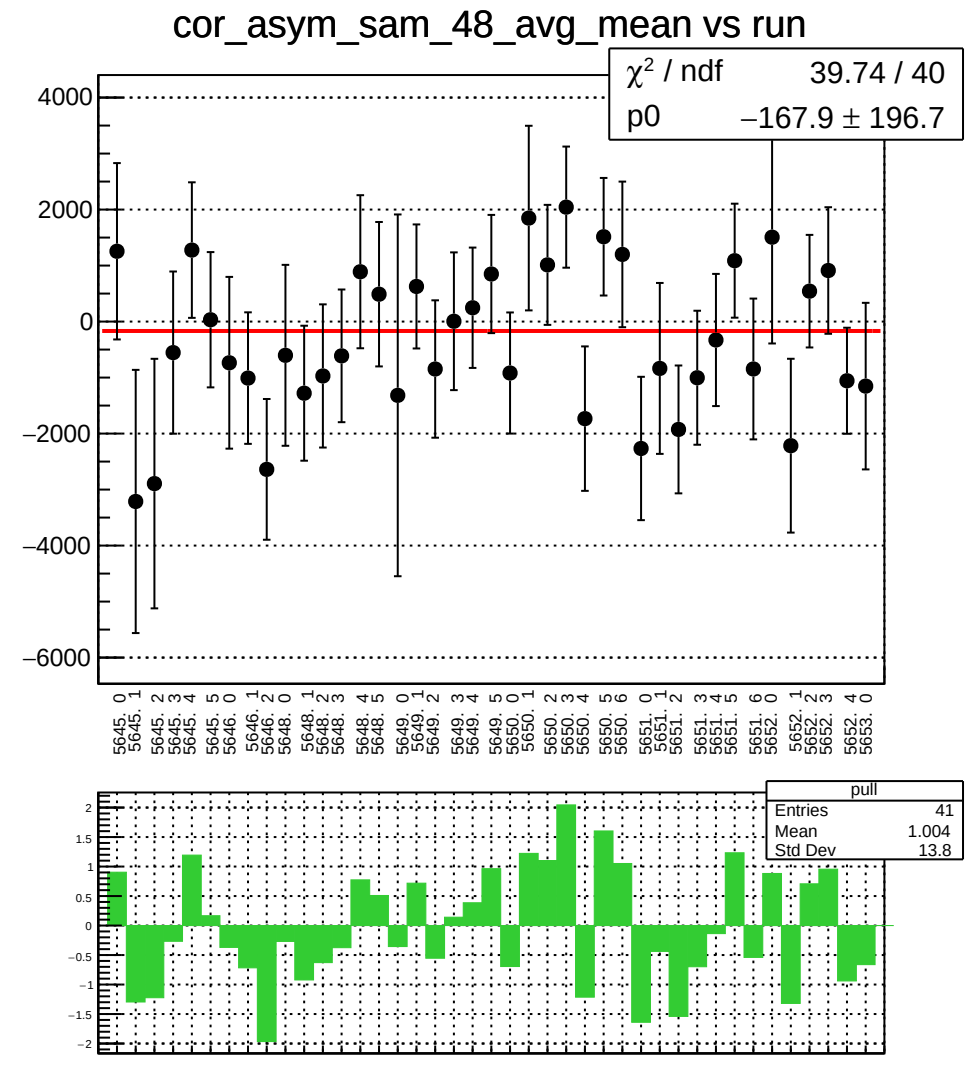

pull1D
Entries 41
Mean −0.05375
Std Dev 0.983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

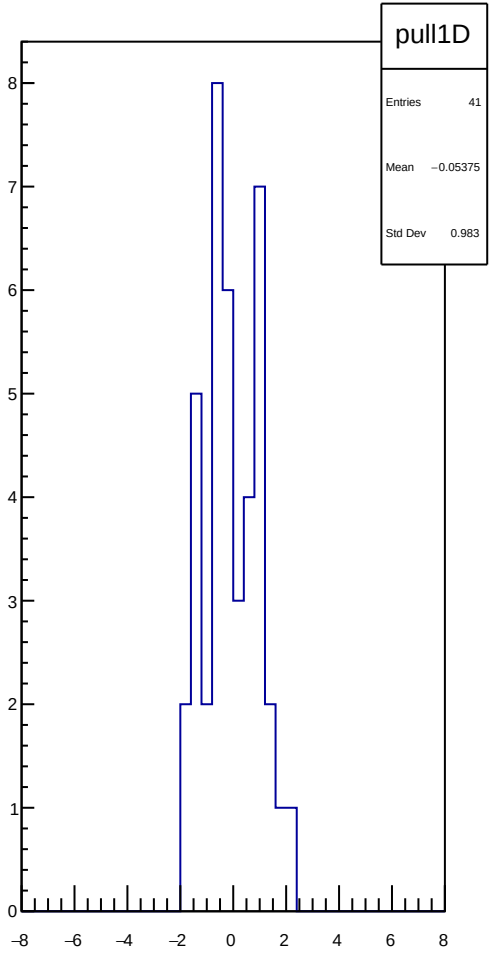

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.549e+04 / 40
p0 120.8 ± 0.1391
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

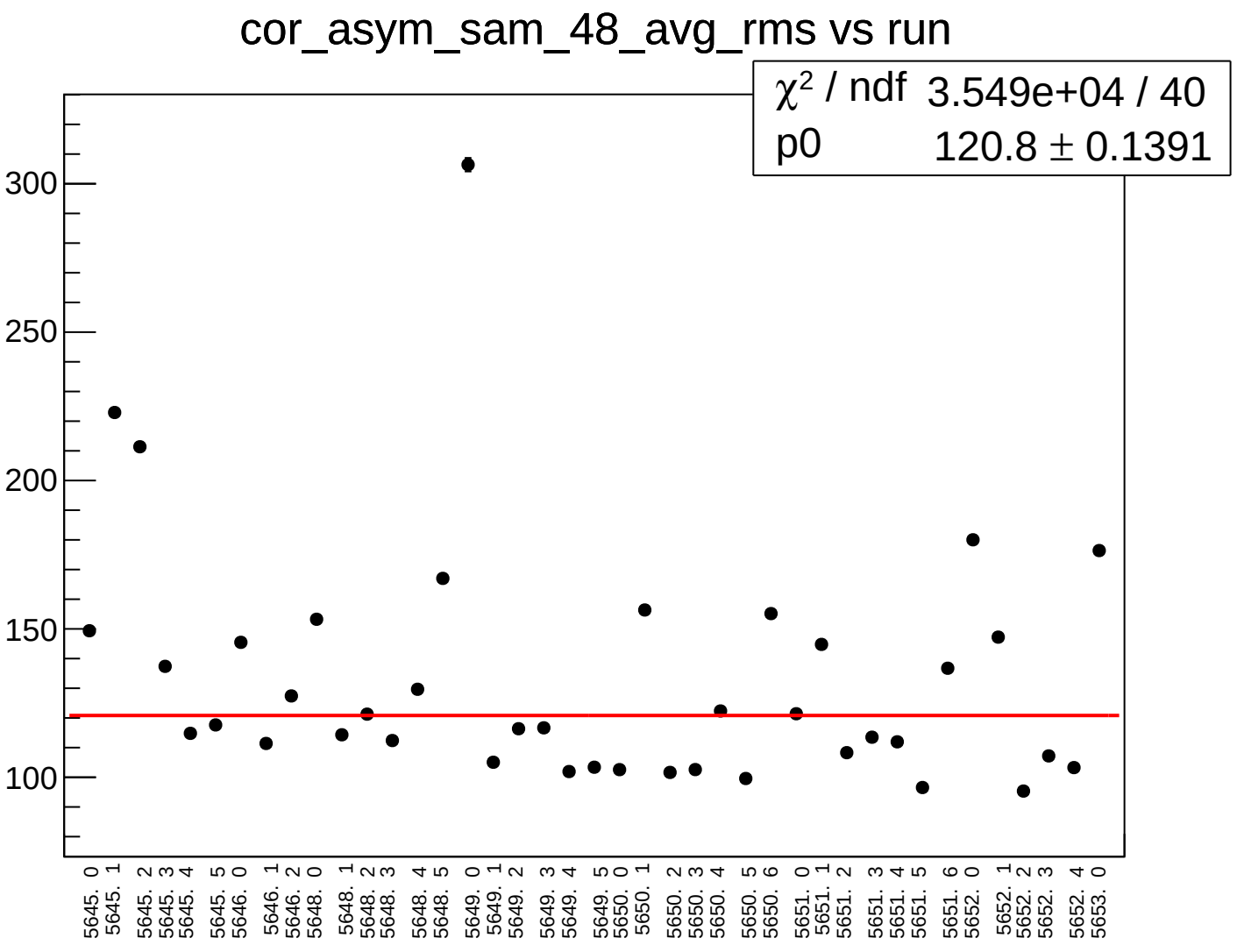

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 49.98 / 40
p0 1739 ± 2424
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1372
Std Dev 0
2
1
0
−1
−2

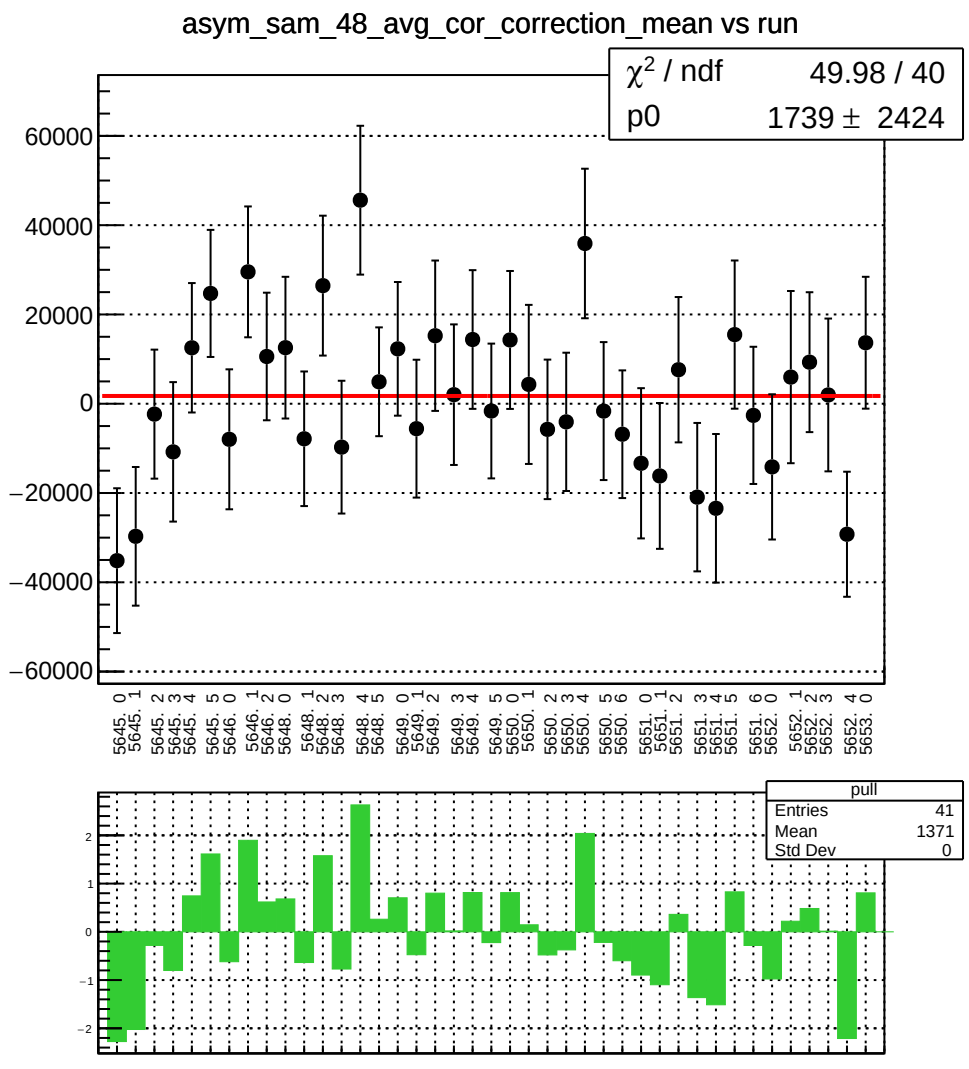

pull1D
Entries 41
Mean −0.001017
Std Dev 1.104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

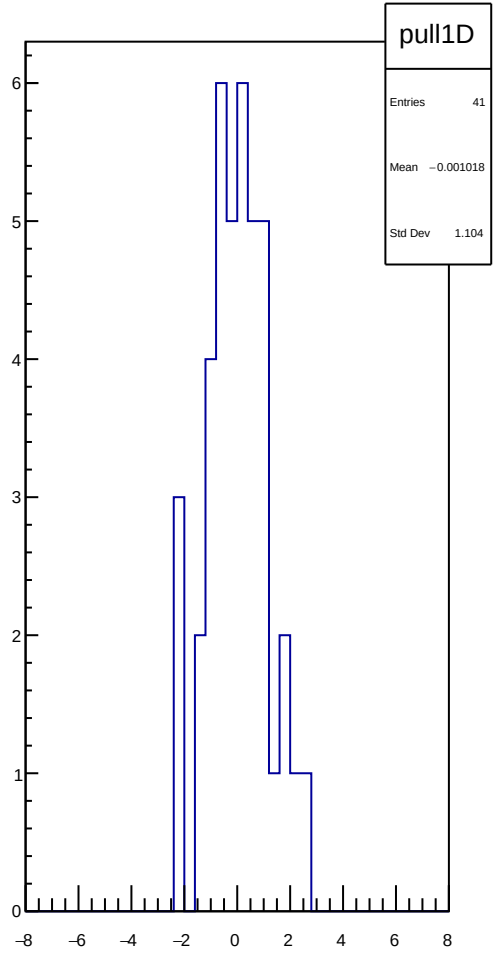

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3347 / 40
p0 1521 ± 1.714
1800
1700
1600
1500
1400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

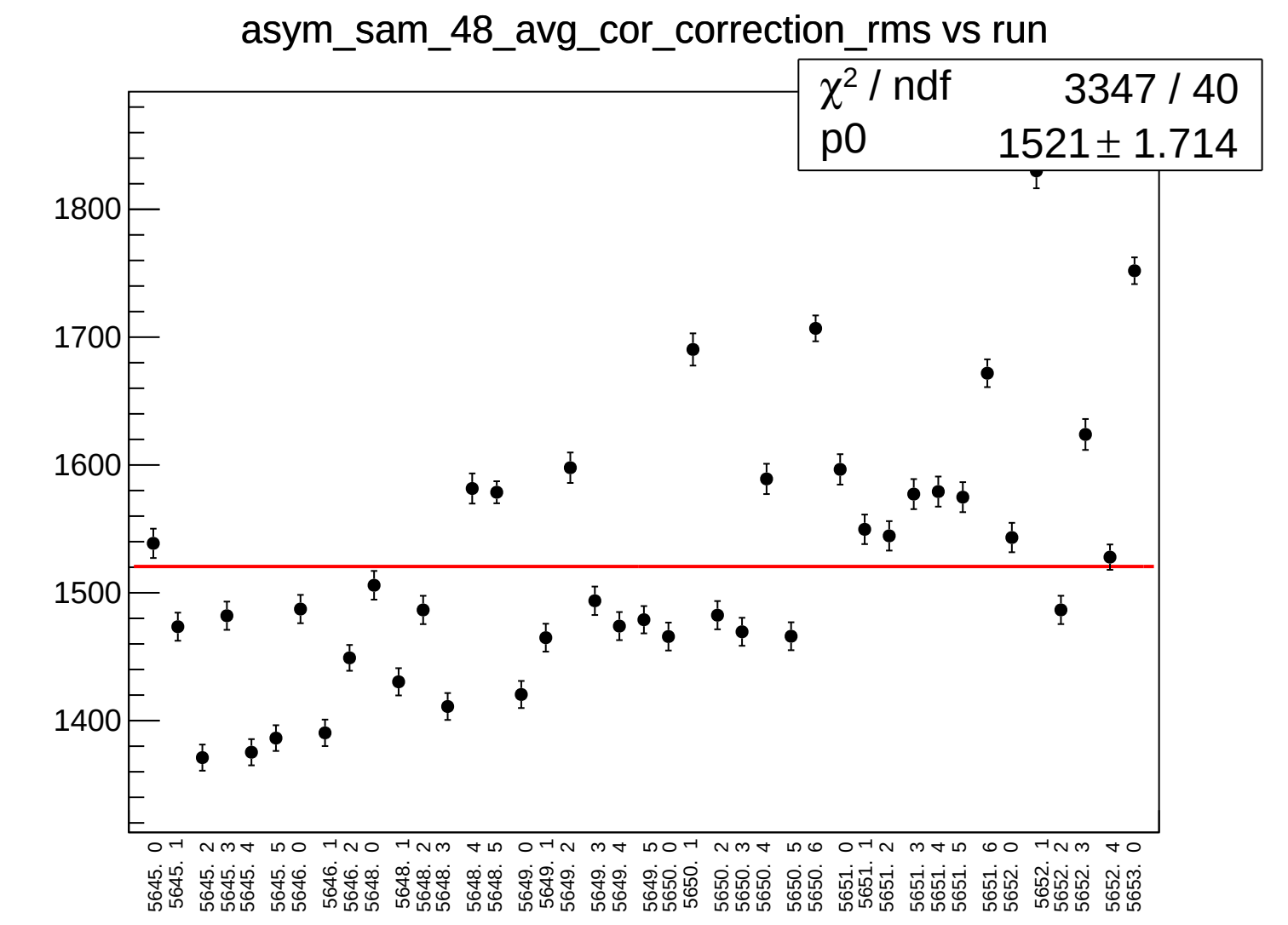

cor_asym_sam_48_avg_mean vs run
χ² / ndf 39.74 / 40
p0 −167.9 ± 196.7
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.004
Std Dev 13.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

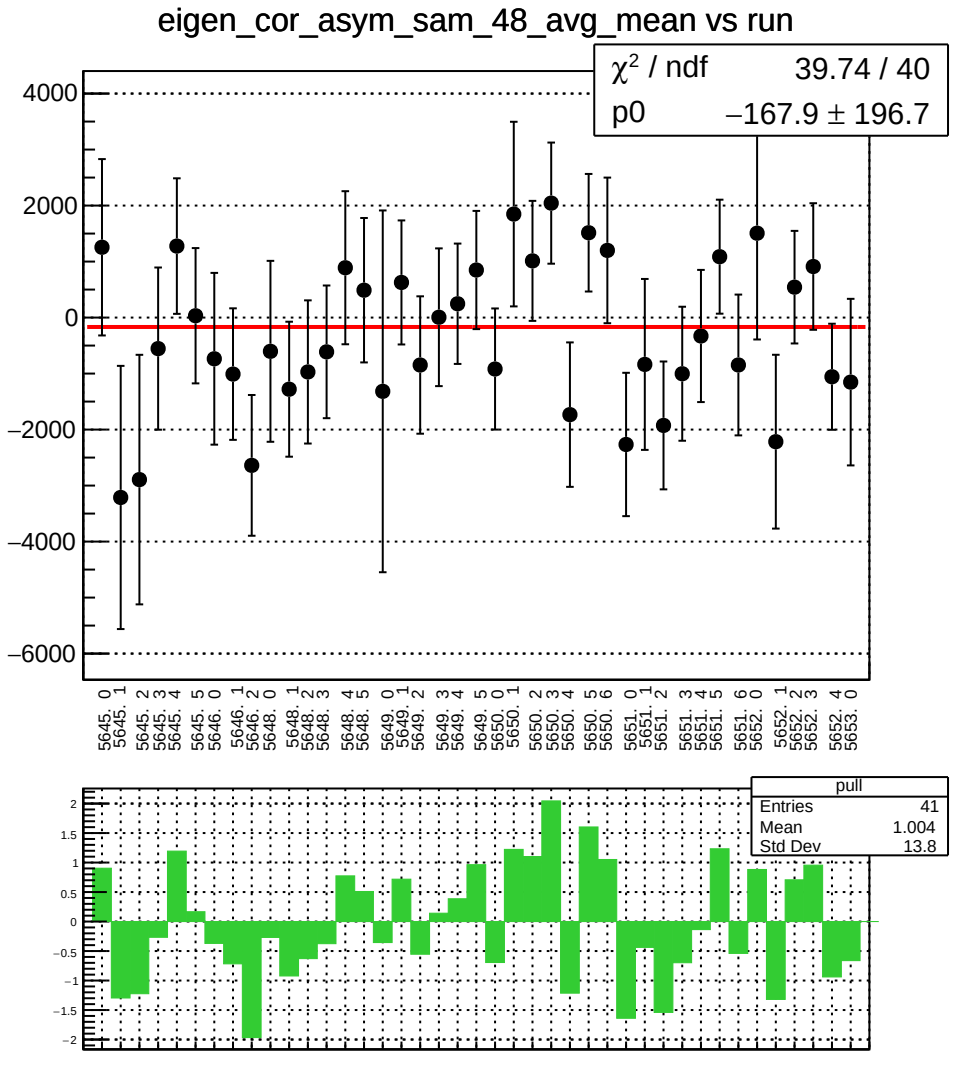

pull1D
Entries 41
Mean −0.05375
Std Dev 0.983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

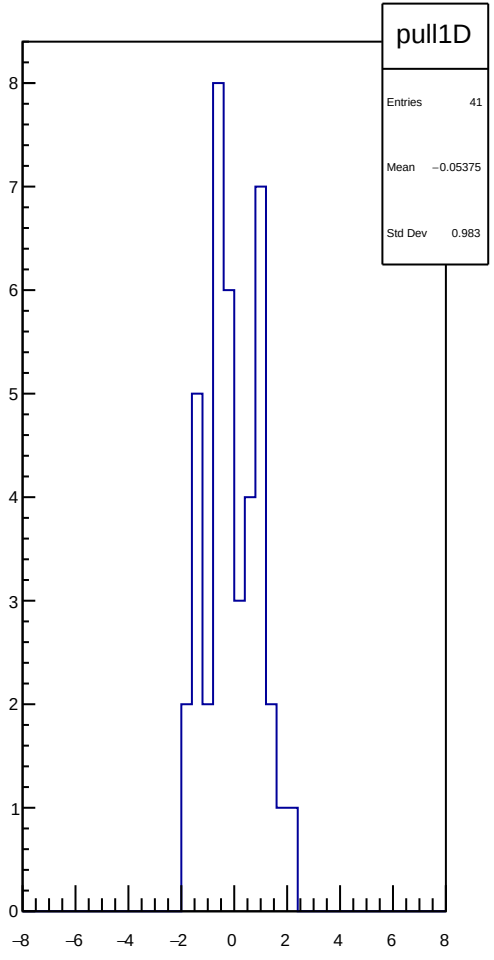

cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.549e+04 / 40
p0 120.8 ± 0.1391
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

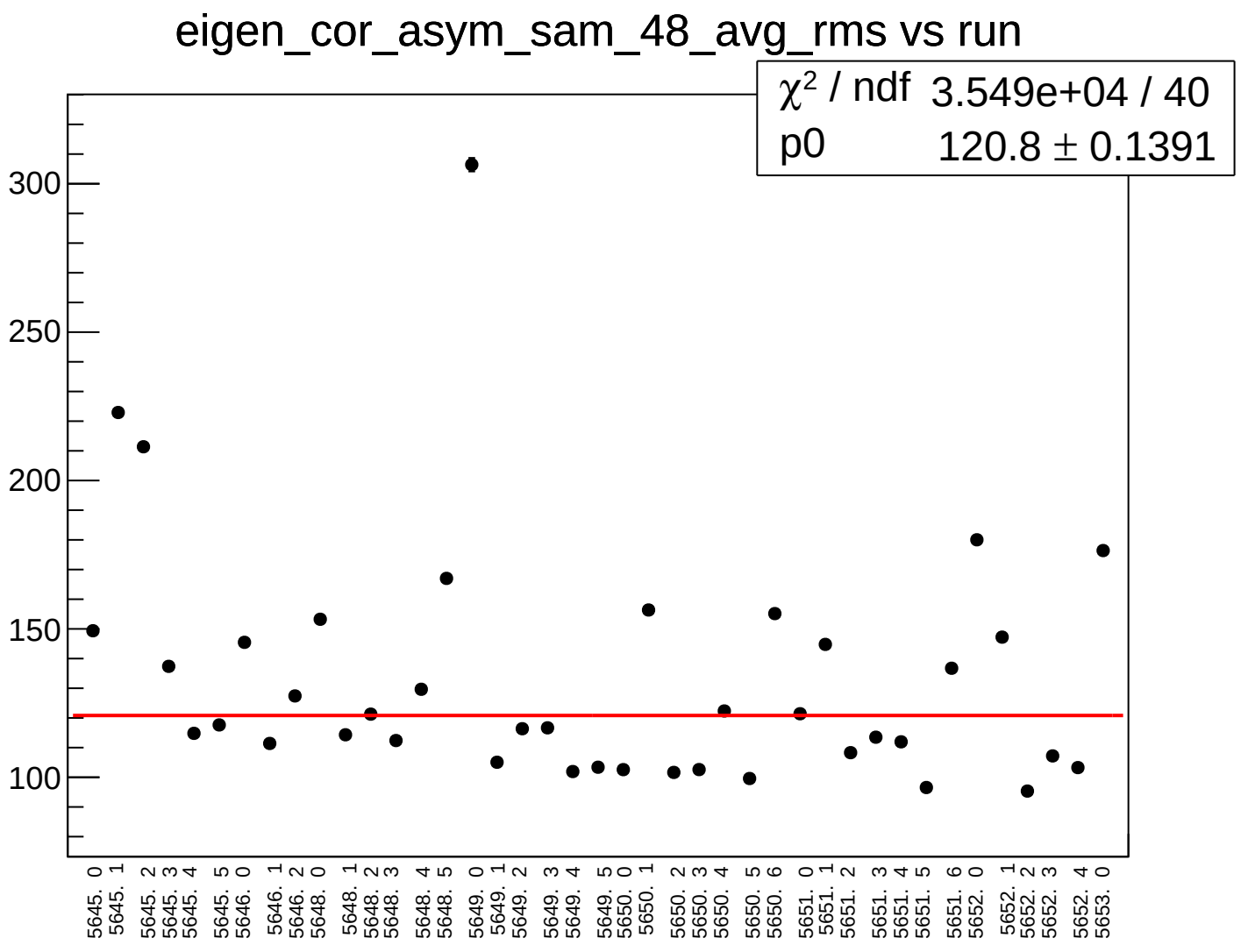

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 49.98 / 40
p0 1739 ± 2424
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1371
Std Dev 0
2
1
0
−1
−2

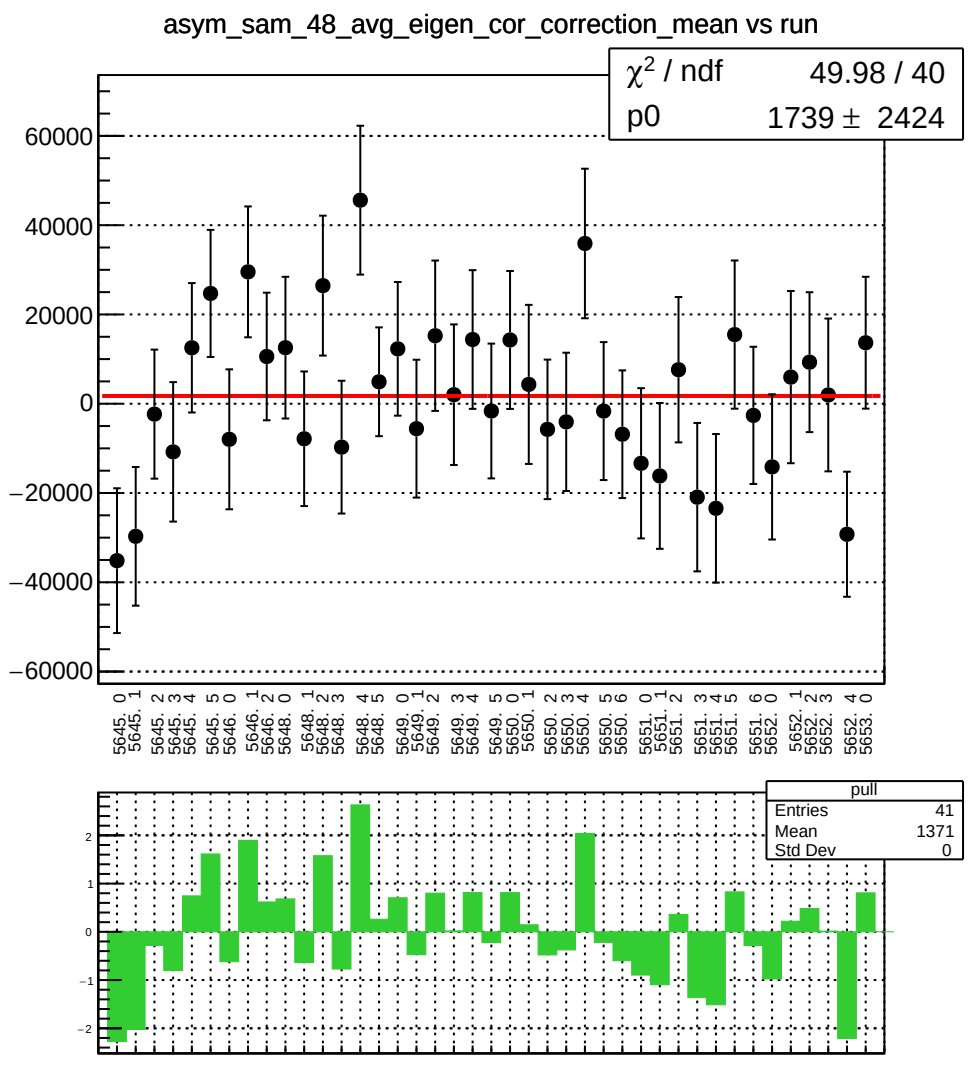

pull1D
Entries 41
Mean −0.001018
Std Dev 1.104
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

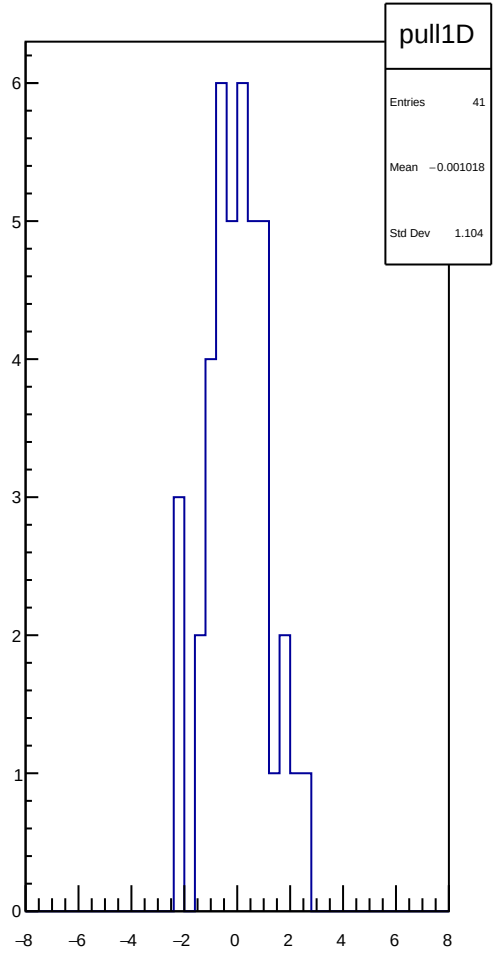

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3347 / 40
p0 1521 ± 1.714
1800
1700
1600
1500
1400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

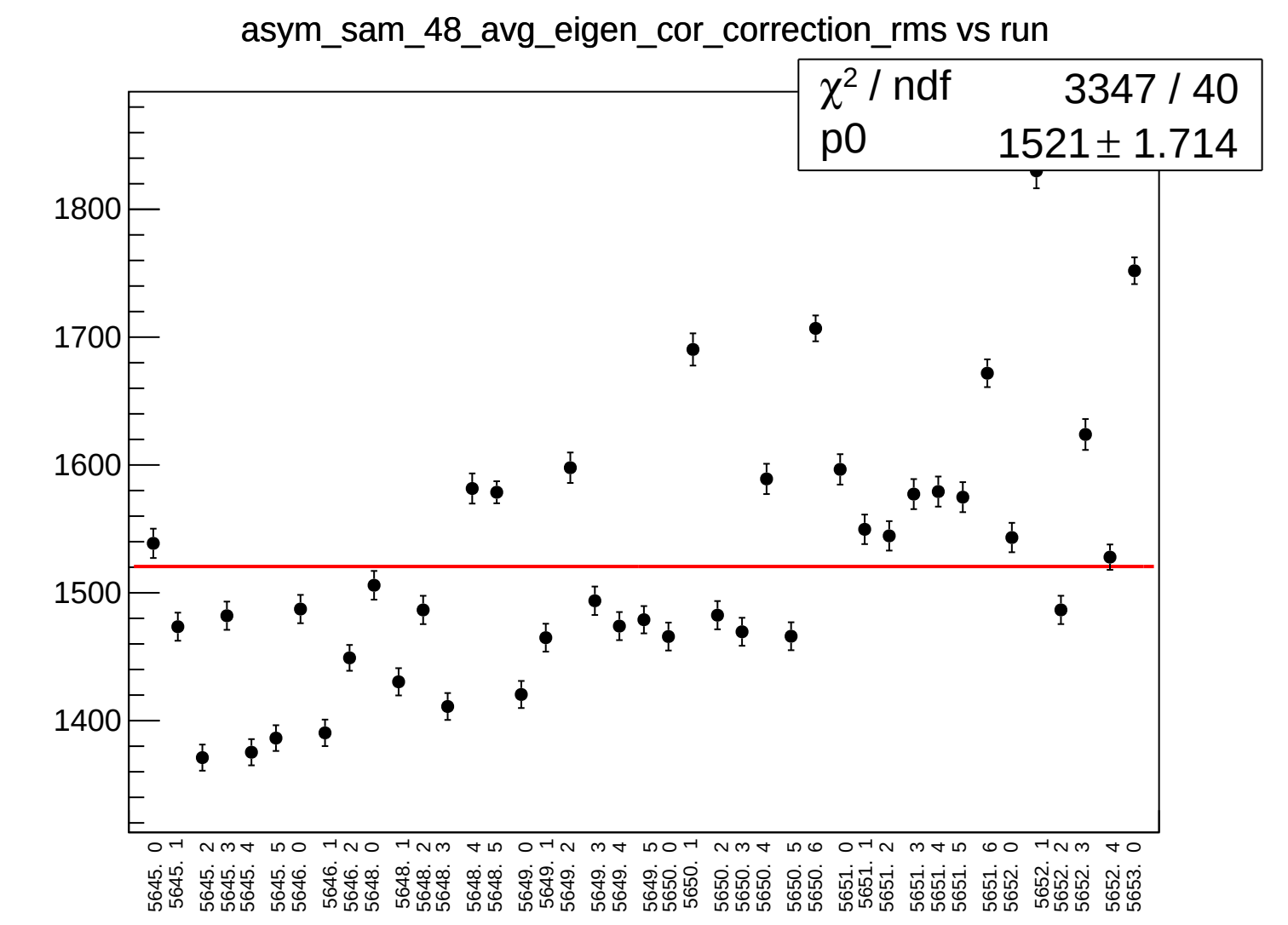

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 39.74 / 40
p0 −167.9 ± 196.7
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.004
Std Dev 13.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

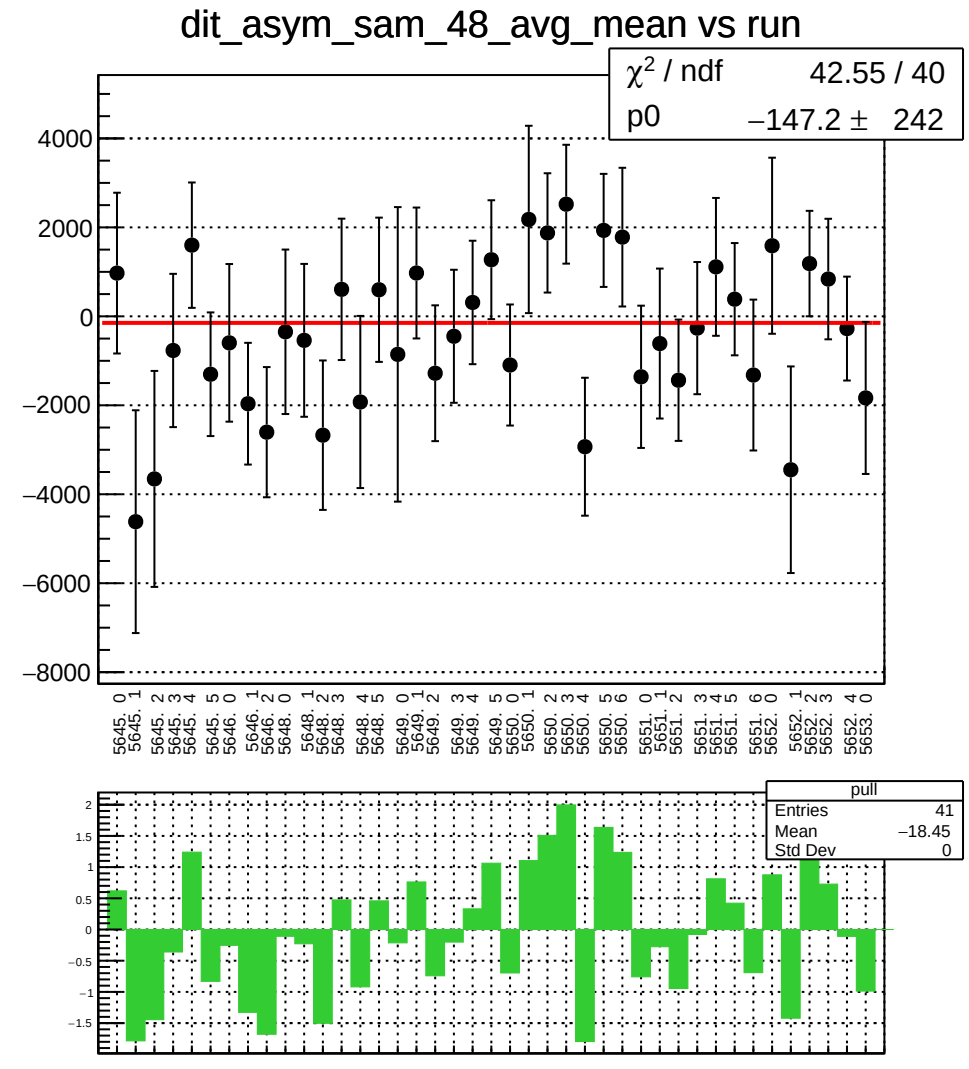

pull1D
Entries 41
Mean −0.05375
Std Dev 0.983
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

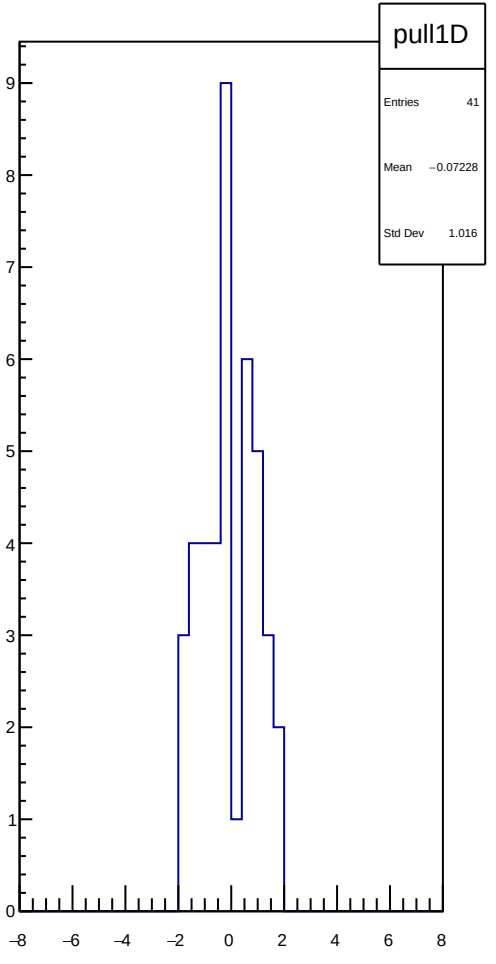

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.549e+04 / 40
p0 120.8 ± 0.1391
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

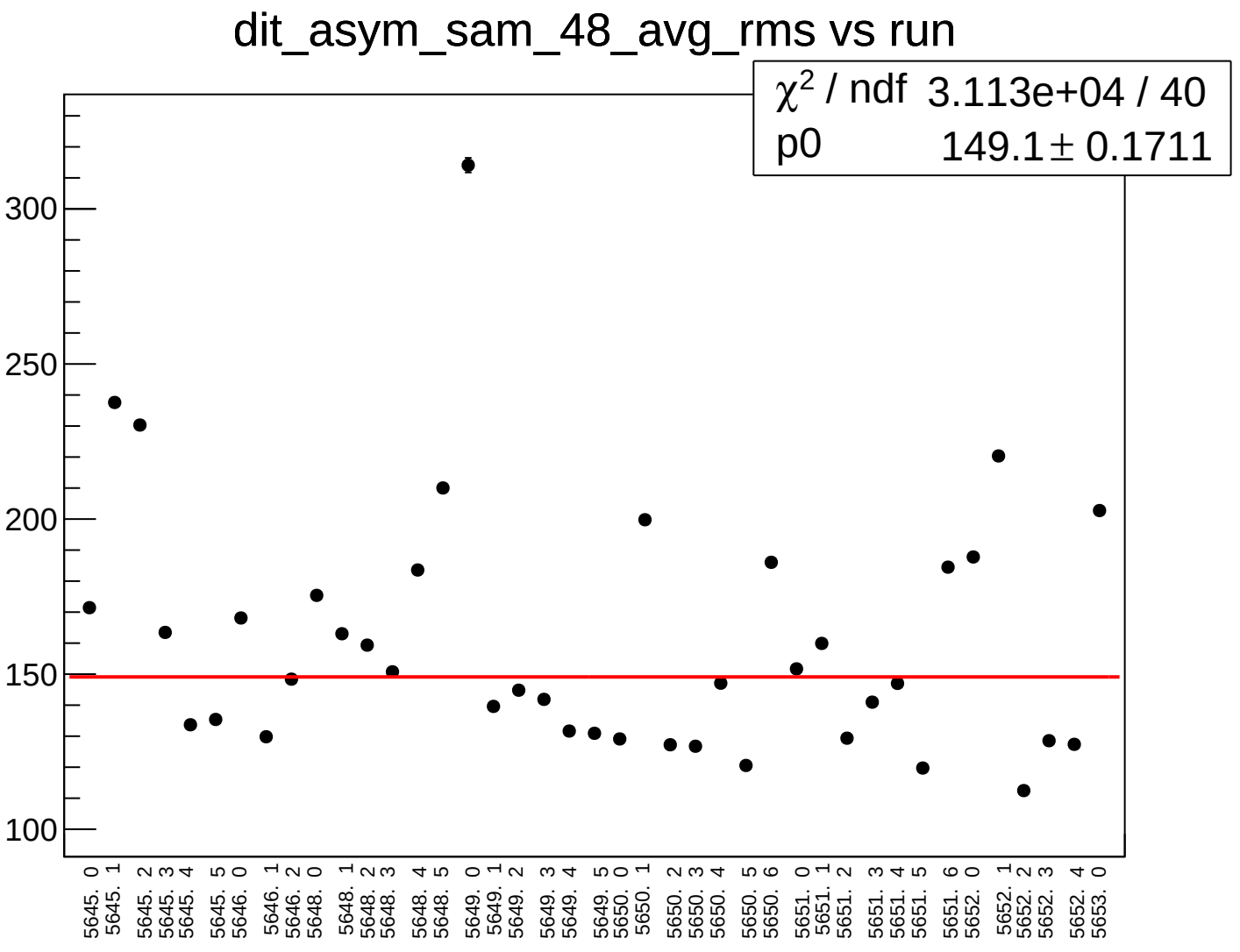

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 49.98 / 40
p0 1739 ± 2424
pull
Entries 41
Mean 1371
Std Dev 0

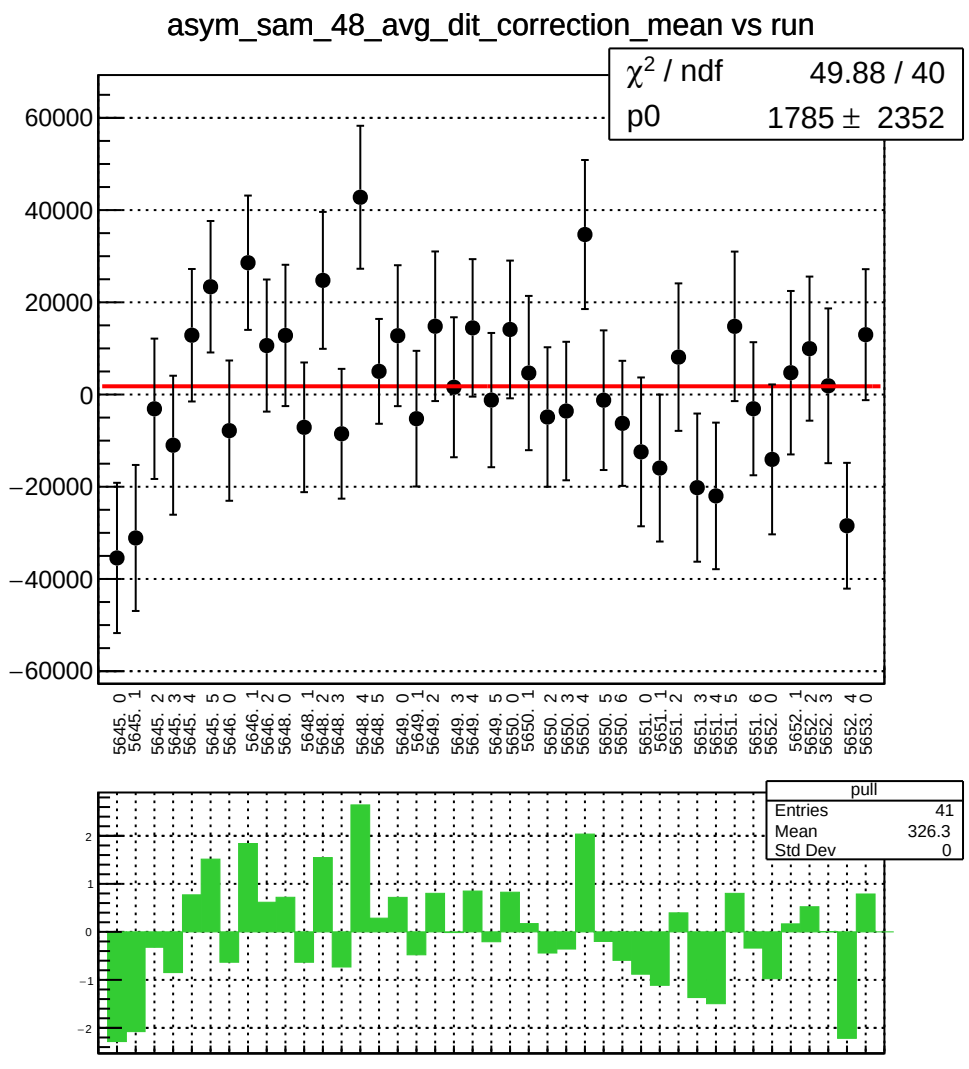

pull1D
Entries 41
Mean −0.001018
Std Dev 1.104

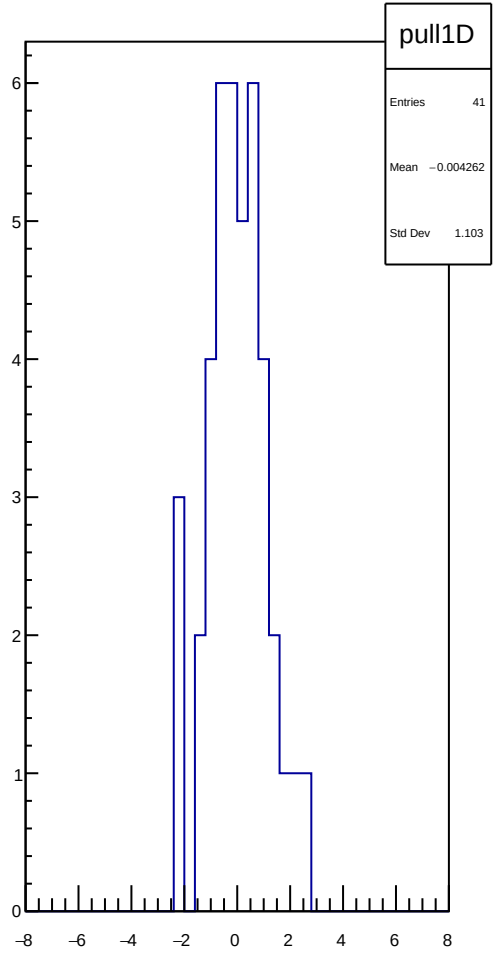

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3347 / 40
p0 1521 ± 1.714
1800
1700
1600
1500
1400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

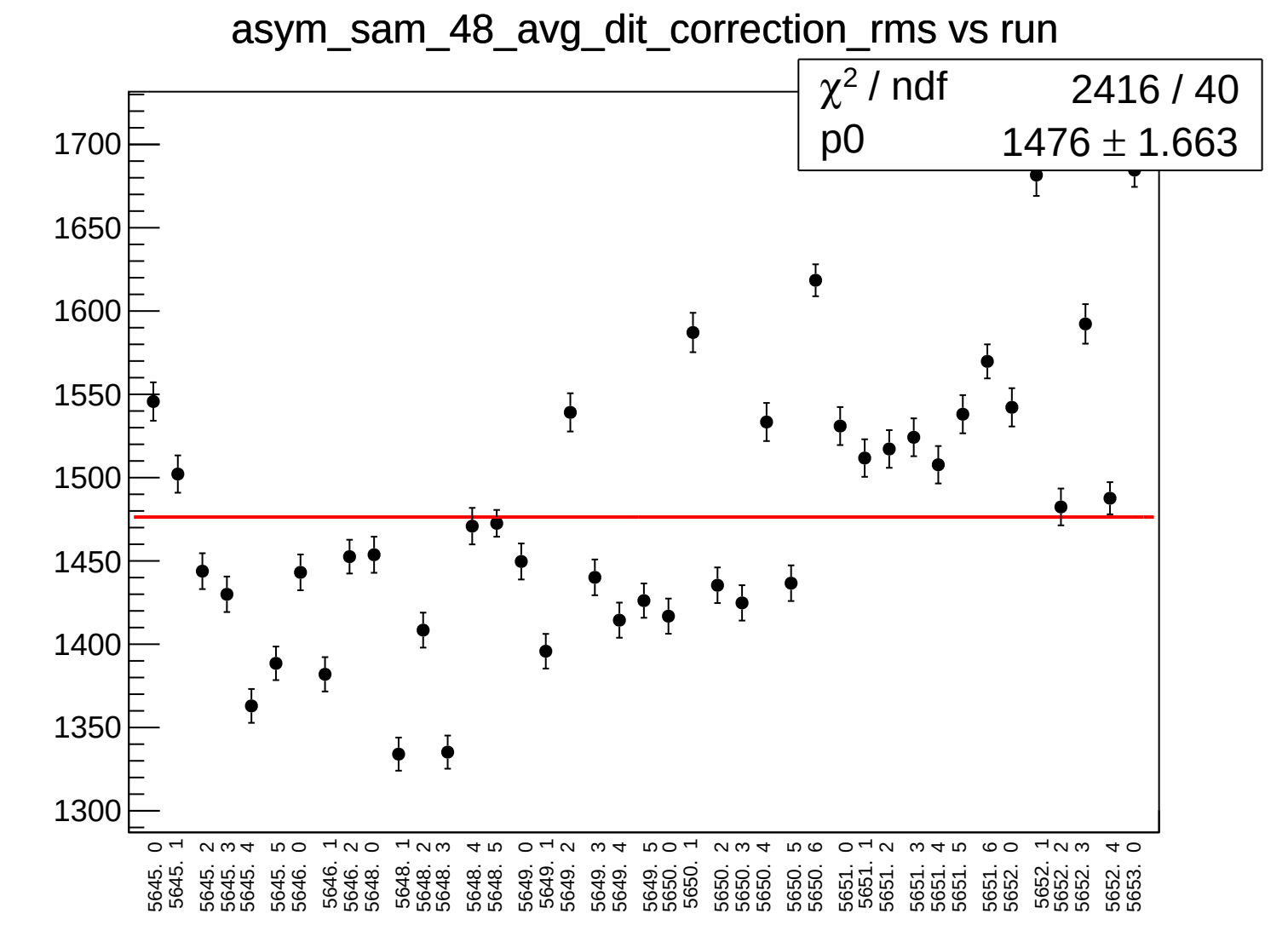

dit_asym_sam_48_avg_mean vs run
χ² / ndf 42.55 / 40
p0 −147.2 ± 242
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −18.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

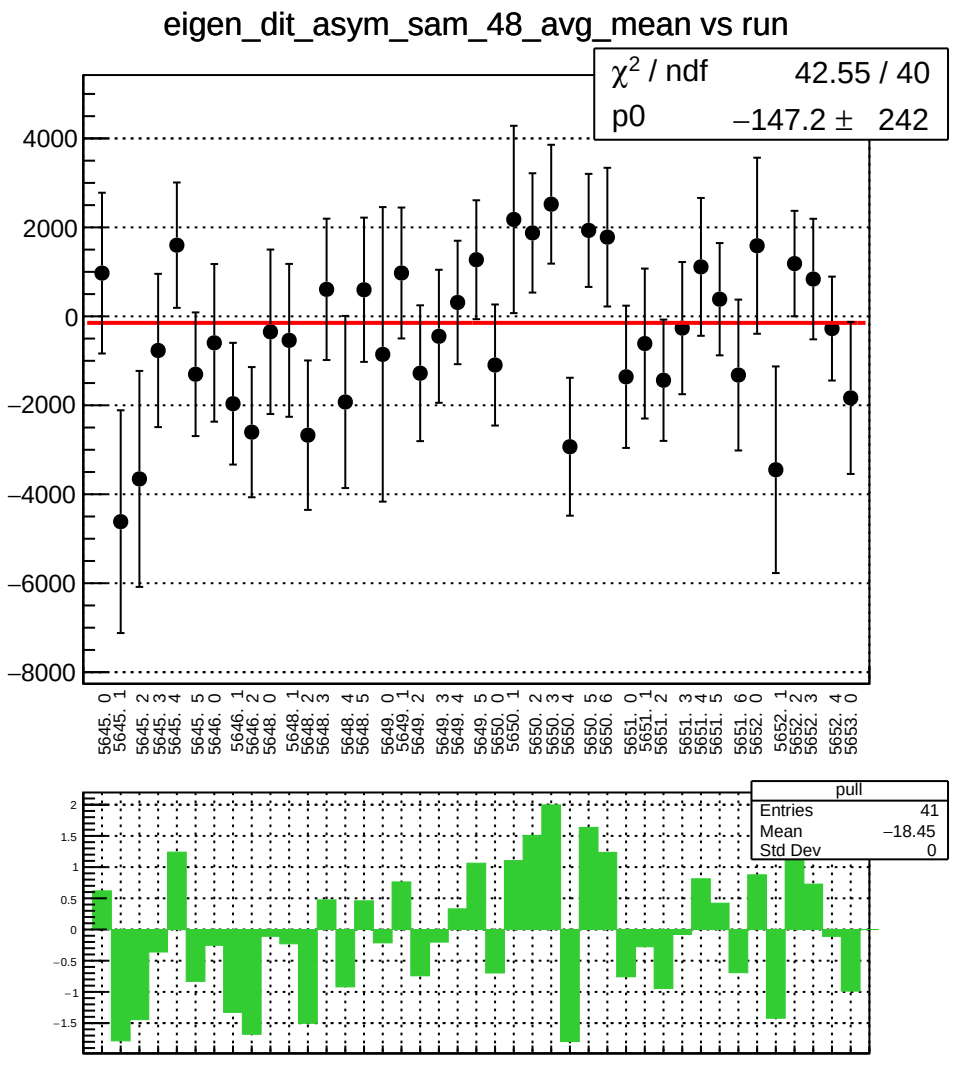

pull1D
Entries 41
Mean −0.07228
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

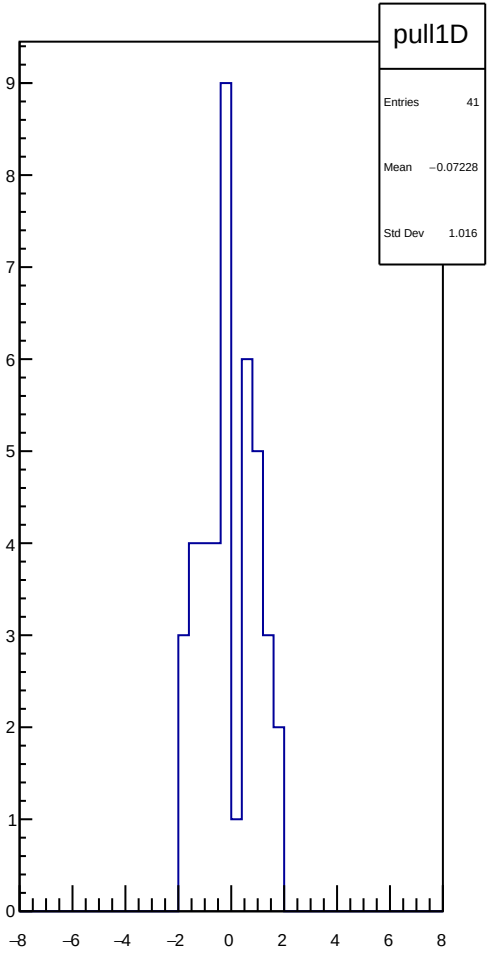

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.113e+04 / 40
p0 149.1 ± 0.1711
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

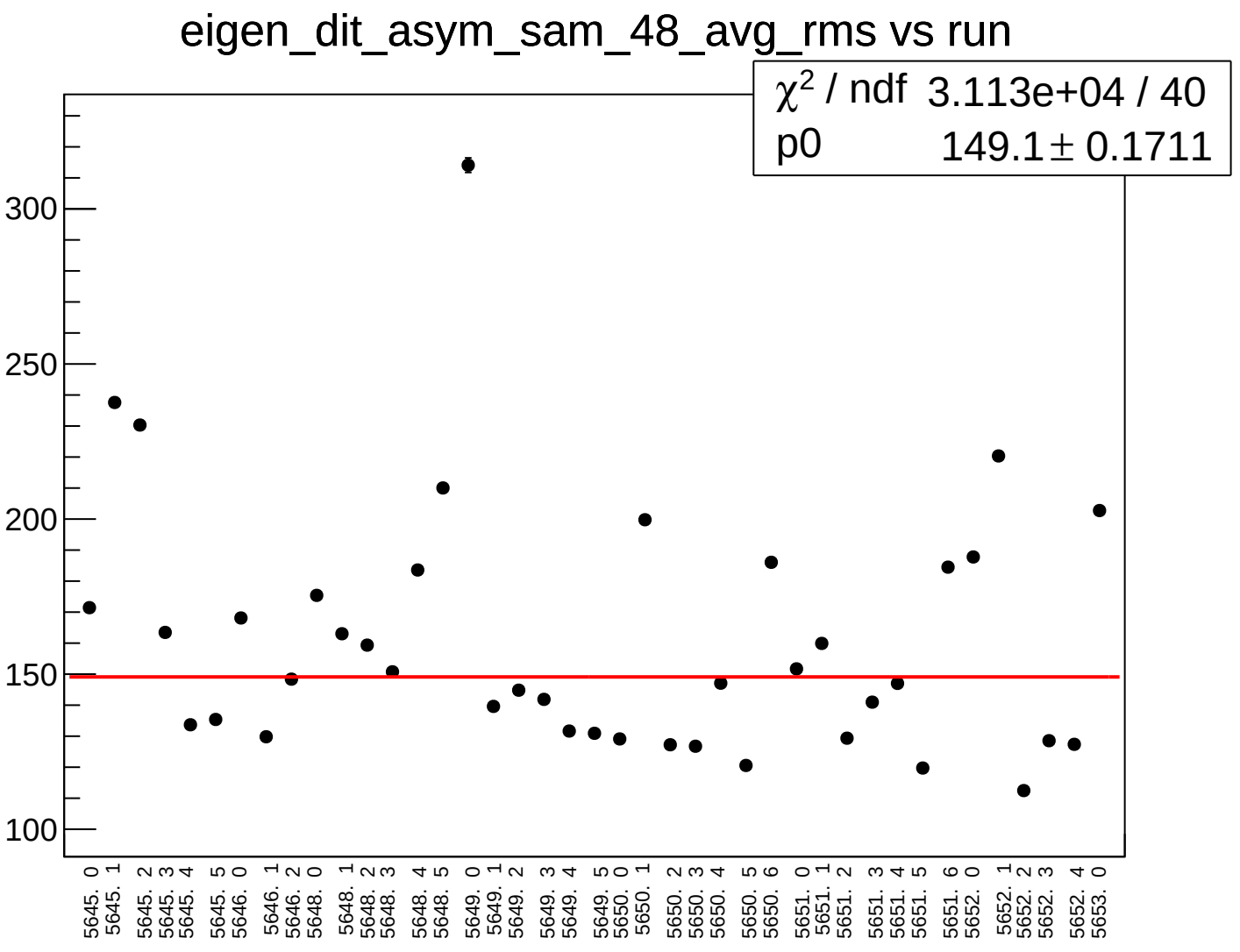

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 49.88 / 40
p0 1785 ± 2352
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 326.3
Std Dev 0
2
1
0
−1
−2

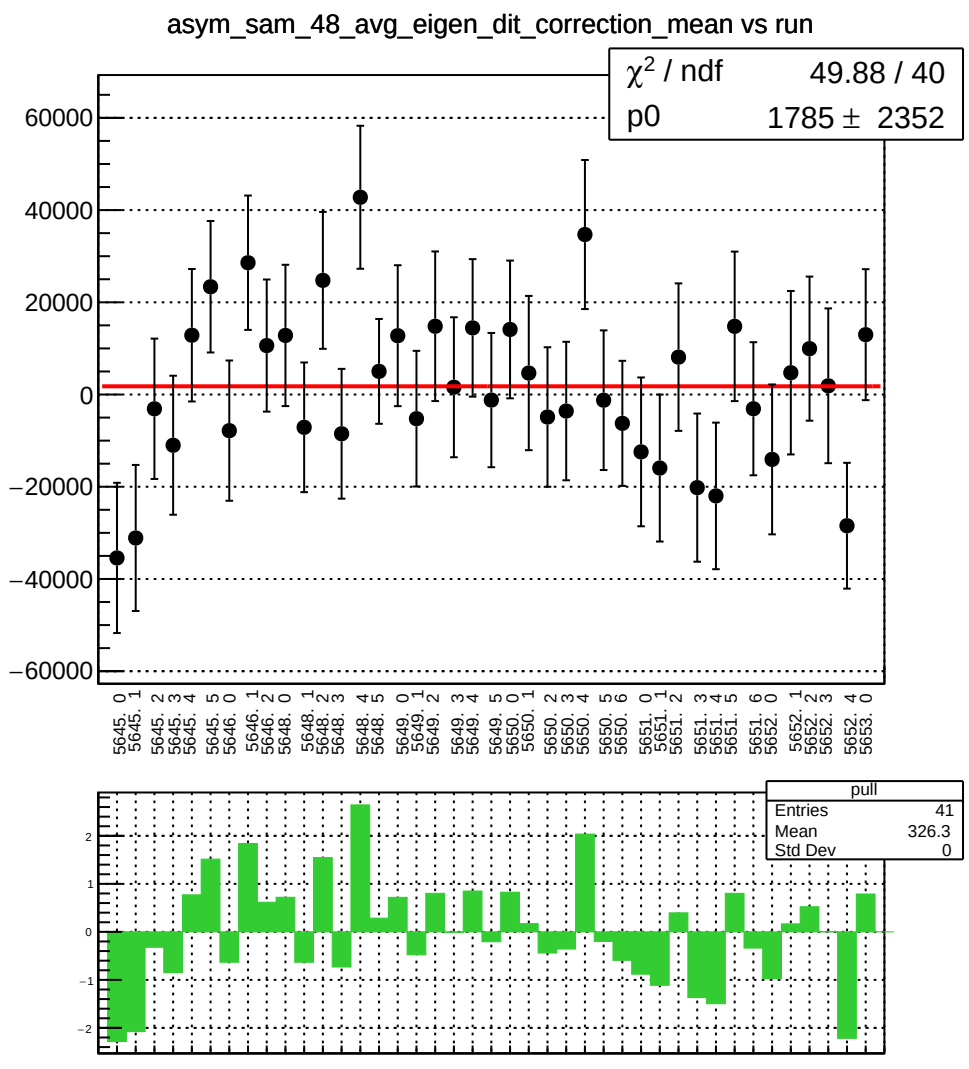

pull1D
Entries 41
Mean −0.004262
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

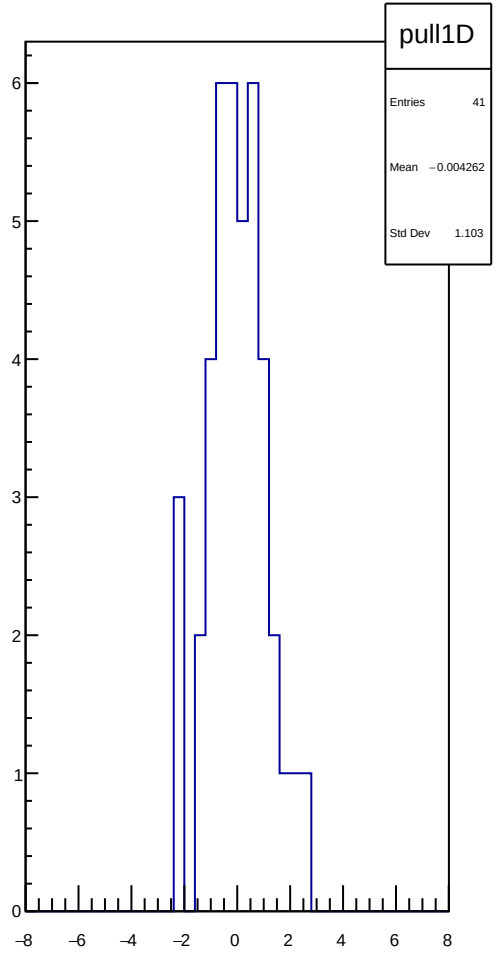

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2416 / 40
p0 1476 ± 1.663
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

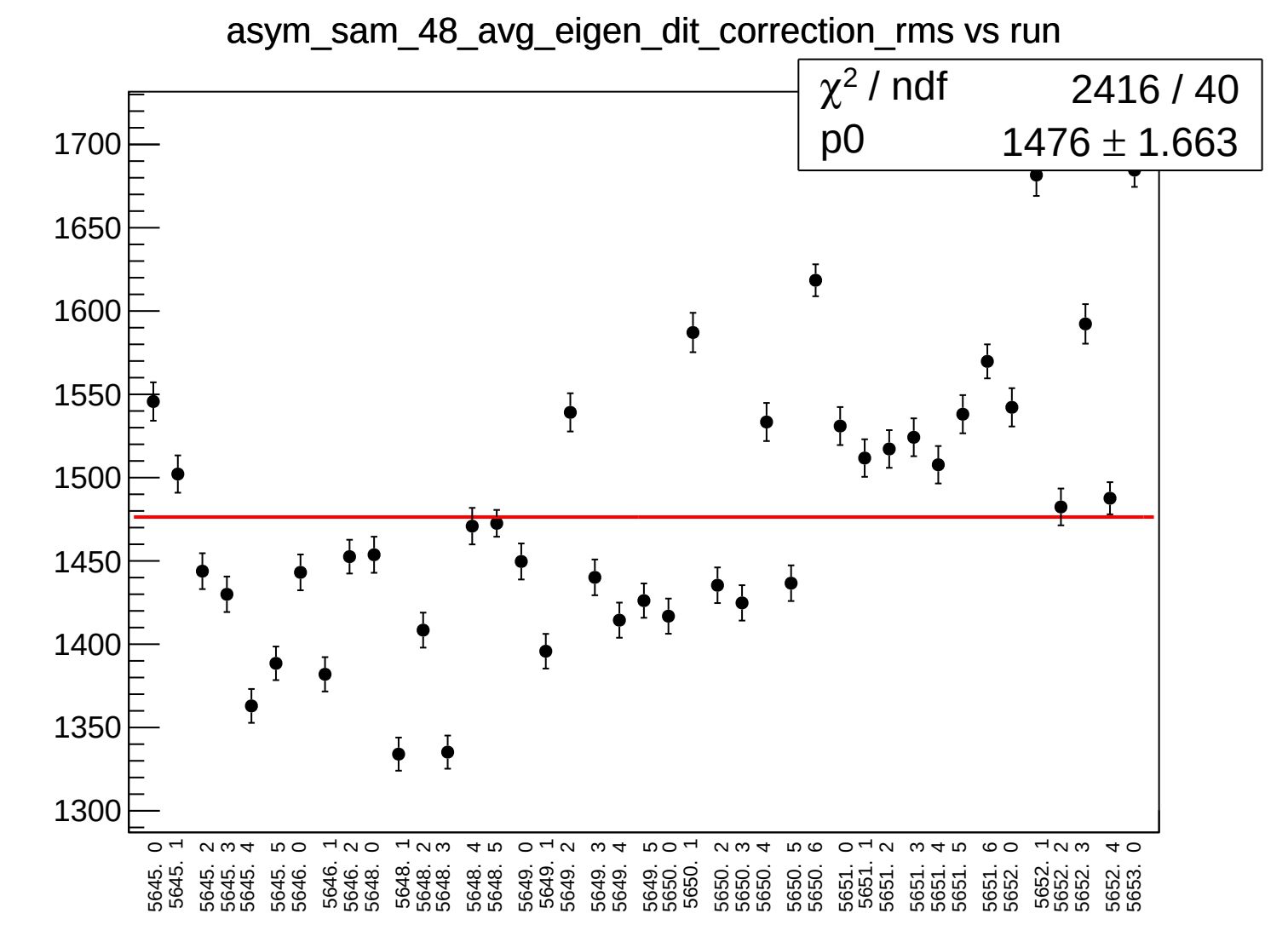

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 42.55 / 40
p0 −147.2 ± 242
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −18.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

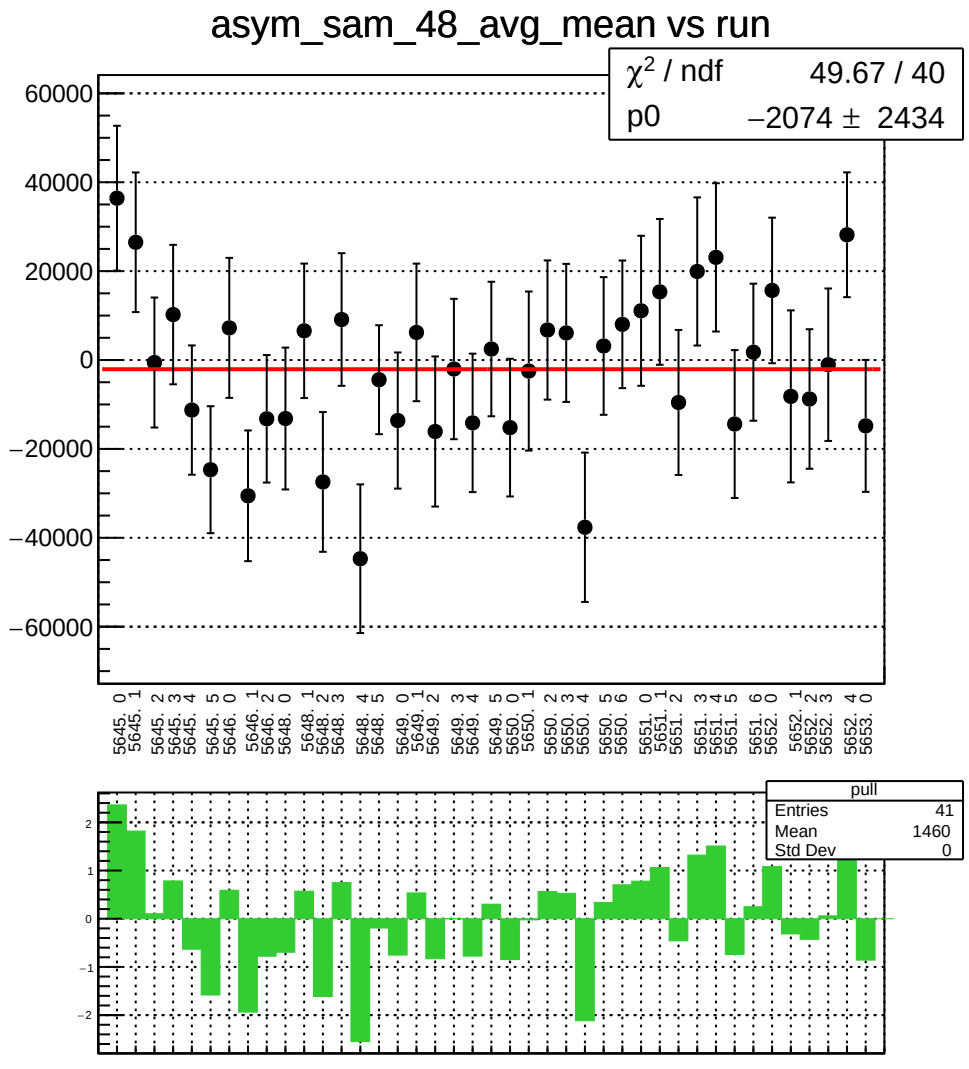

pull1D
Entries 41
Mean −0.07228
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

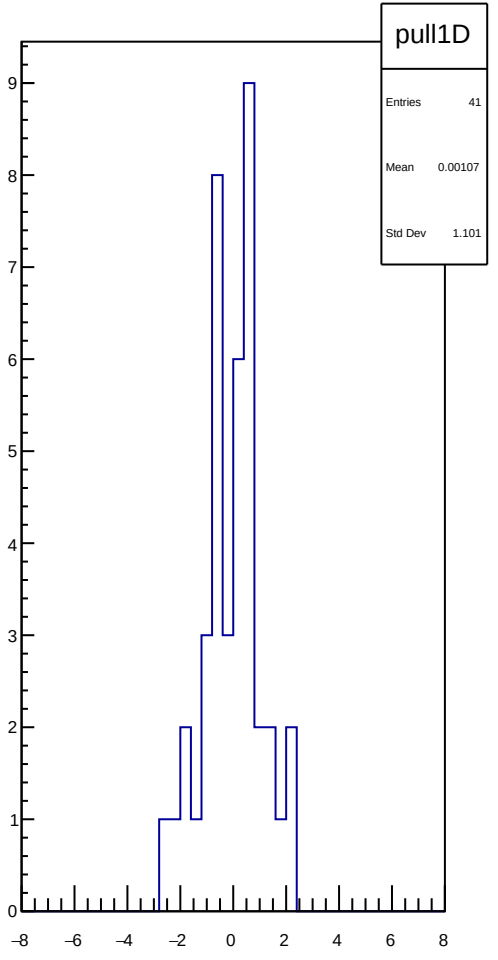

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.113e+04 / 40
p0 149.1 ± 0.1711
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

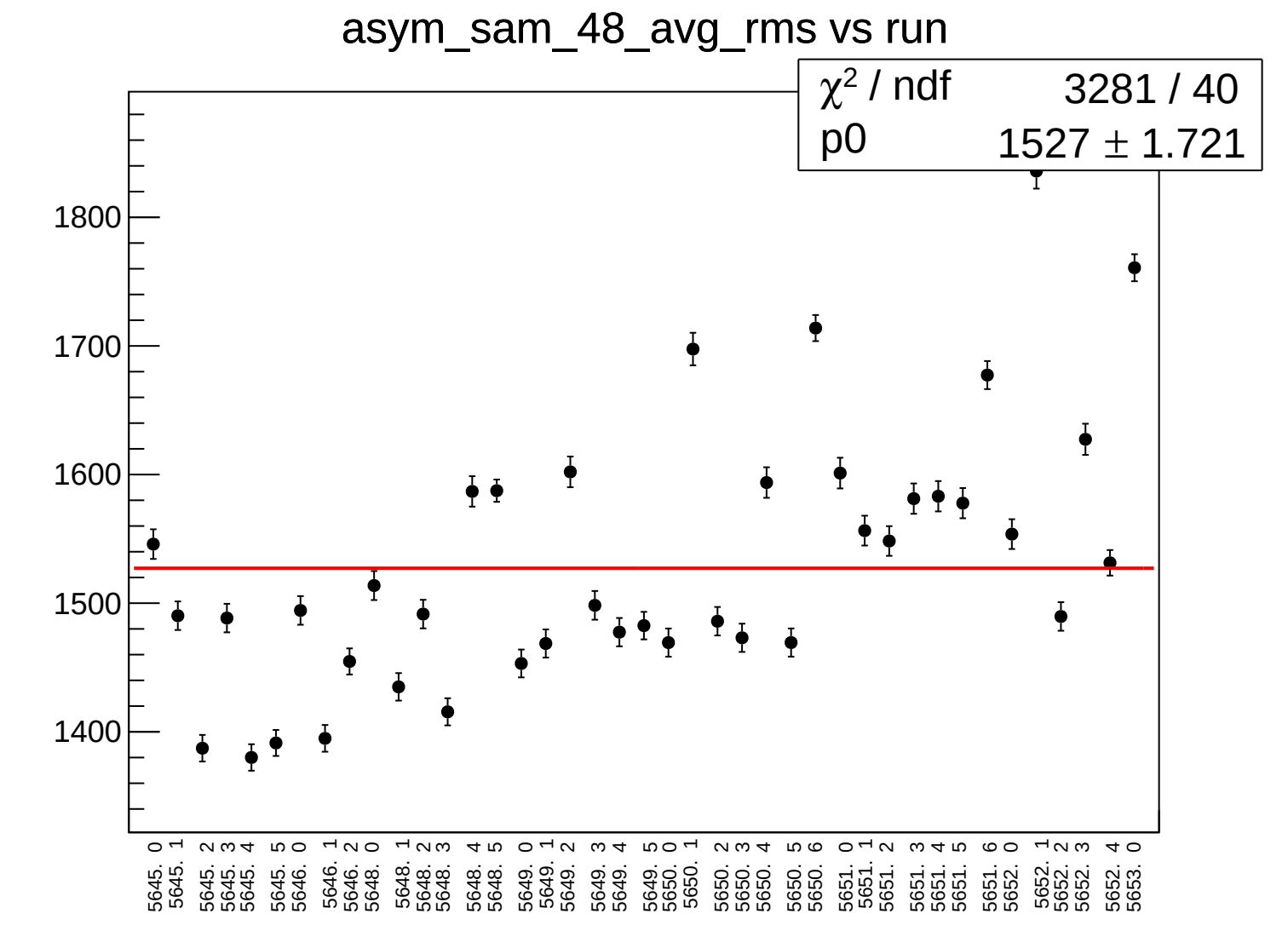

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 49.88 / 40
p0 1785 ± 2352
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 326.3
Std Dev 0
2
1
0
−1
−2

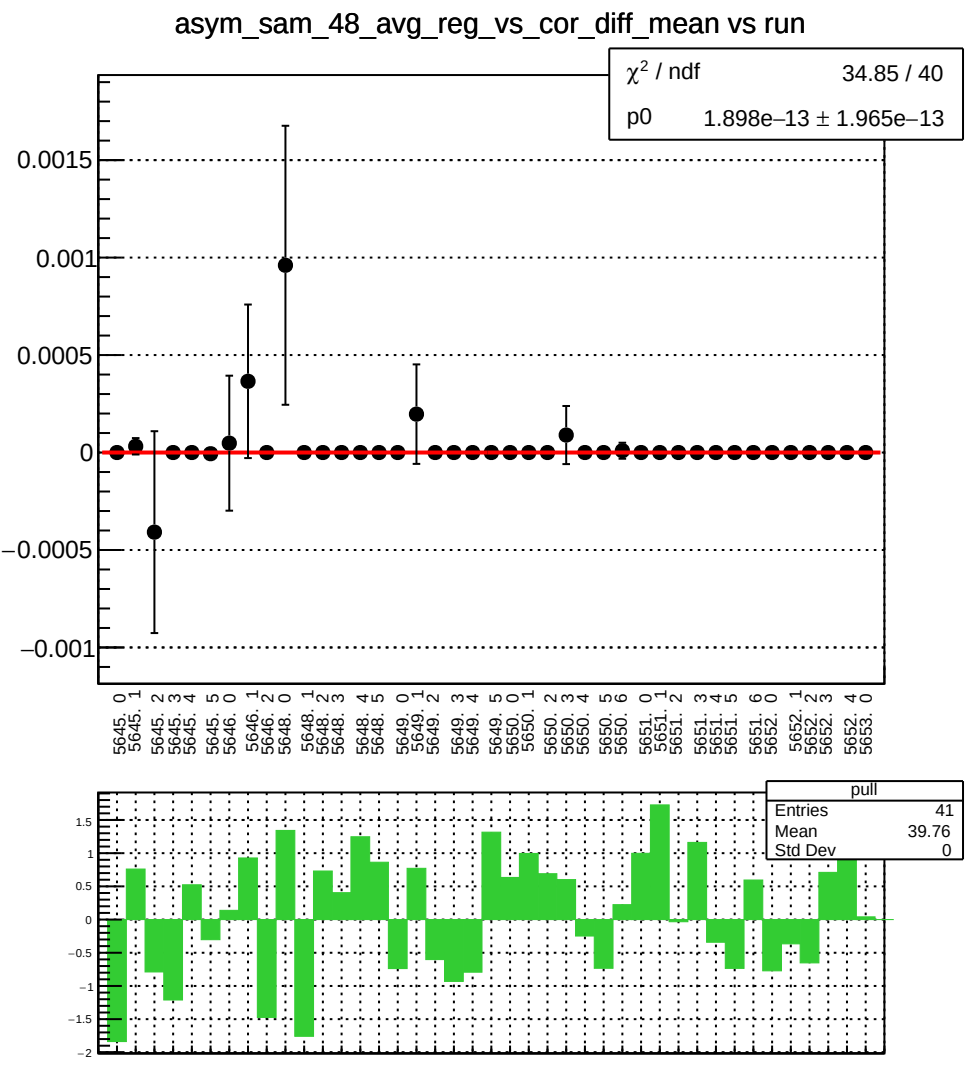

pull1D
Entries 41
Mean −0.004262
Std Dev 1.103
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

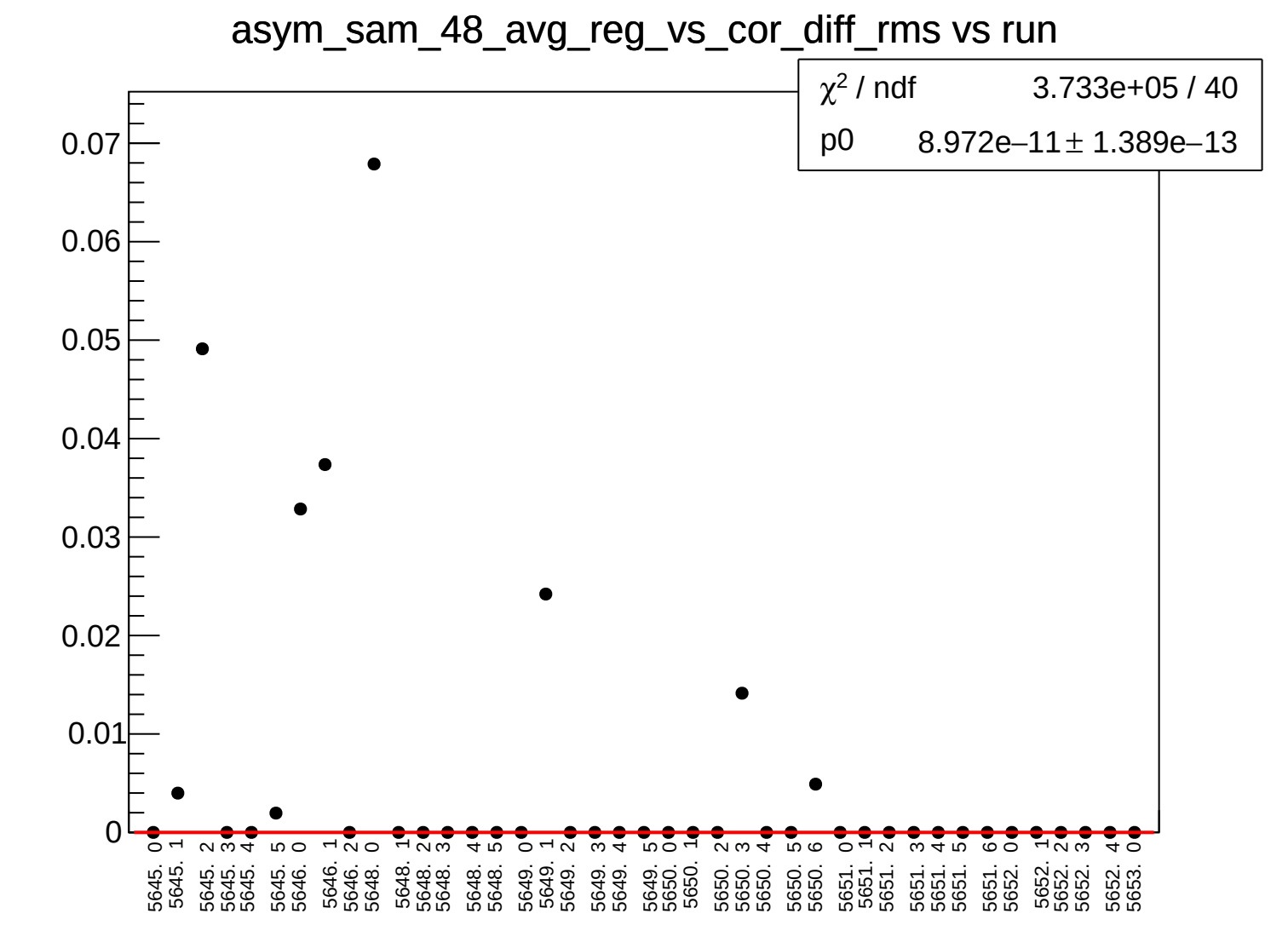

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2416 / 40
p0 1476 ± 1.663
1700
1650
1600
1550
1500
1450
1400
1350
1300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

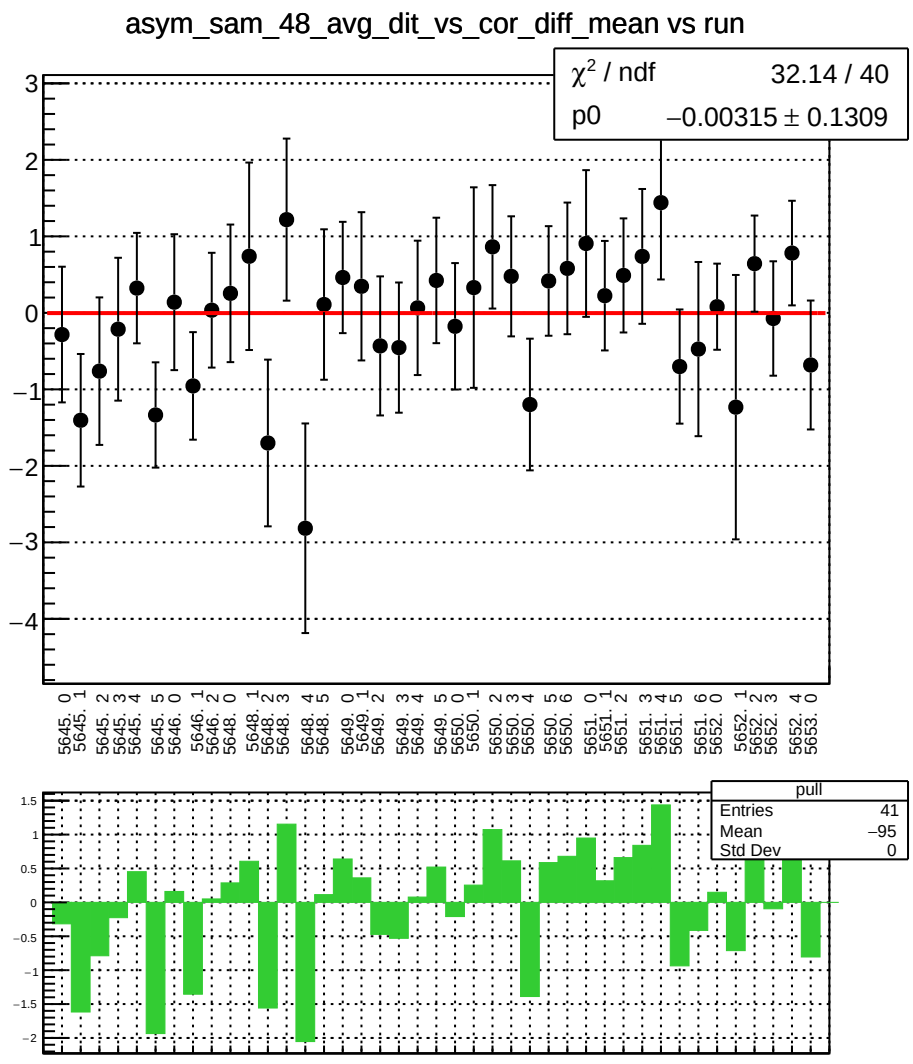

asym_sam_48_avg_mean vs run
χ² / ndf 49.67 / 40
p0 −2074 ± 2434
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1460
Std Dev 0
2
1
0
−1
−2

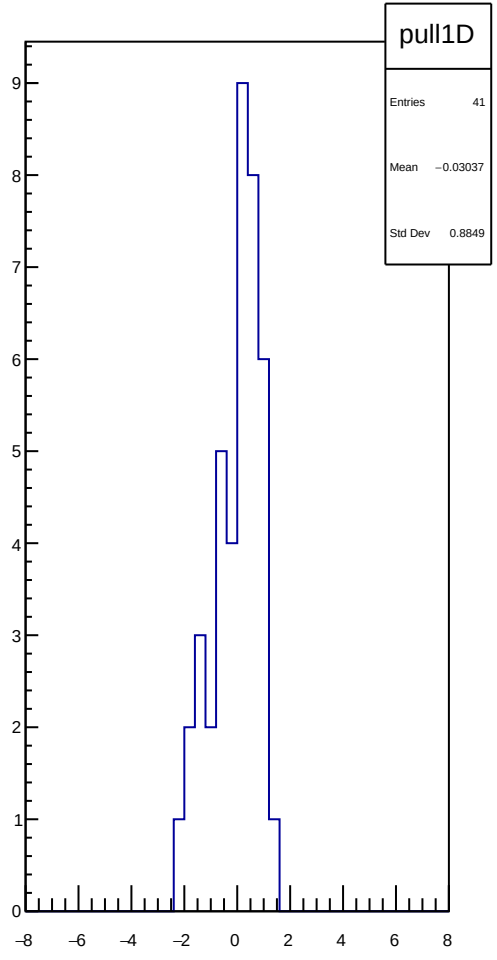

pull1D
Entries 41
Mean 0.00107
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

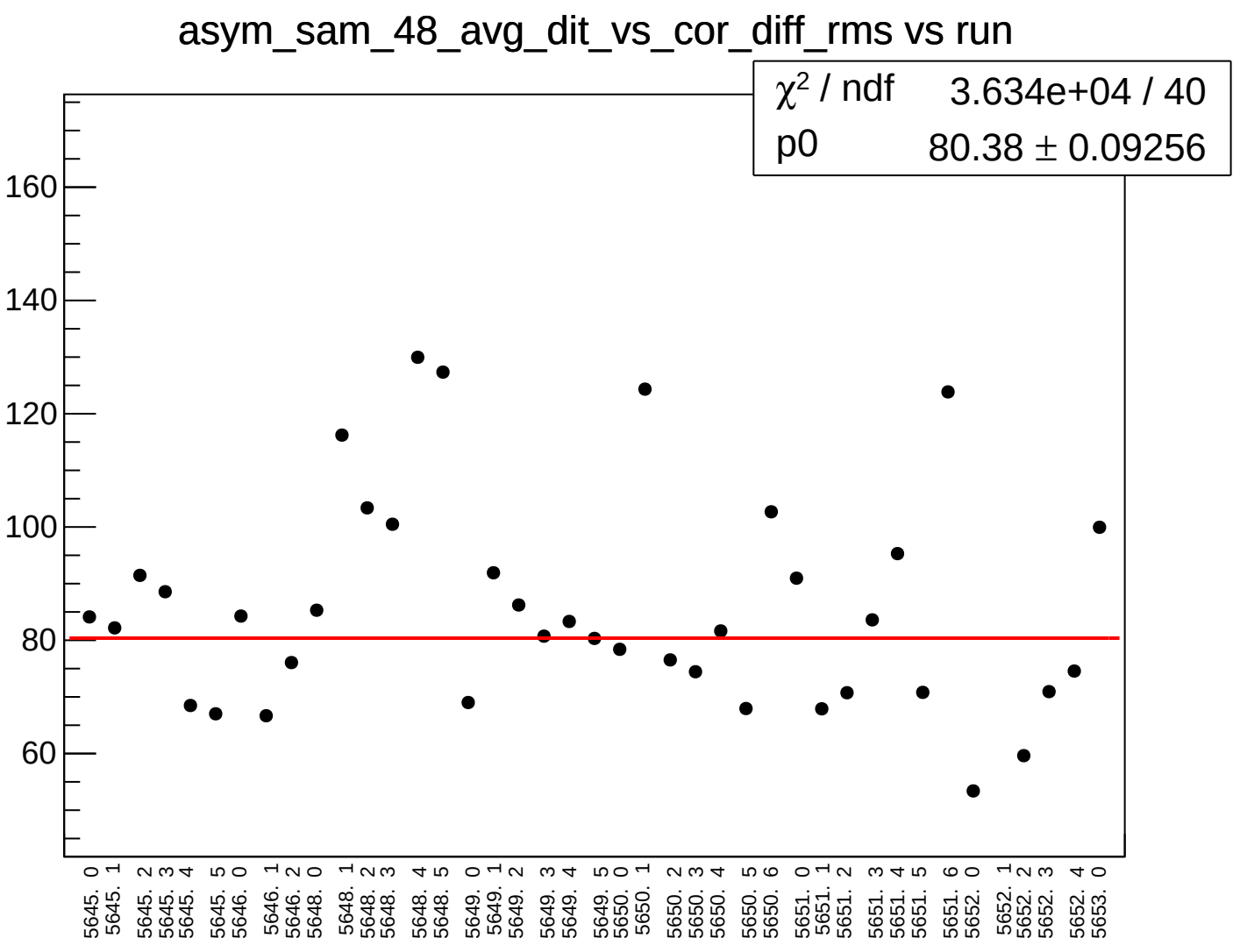

asym_sam_48_avg_rms vs run
χ² / ndf 3281 / 40
p0 1527 ± 1.721
1800
1700
1600
1500
1400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

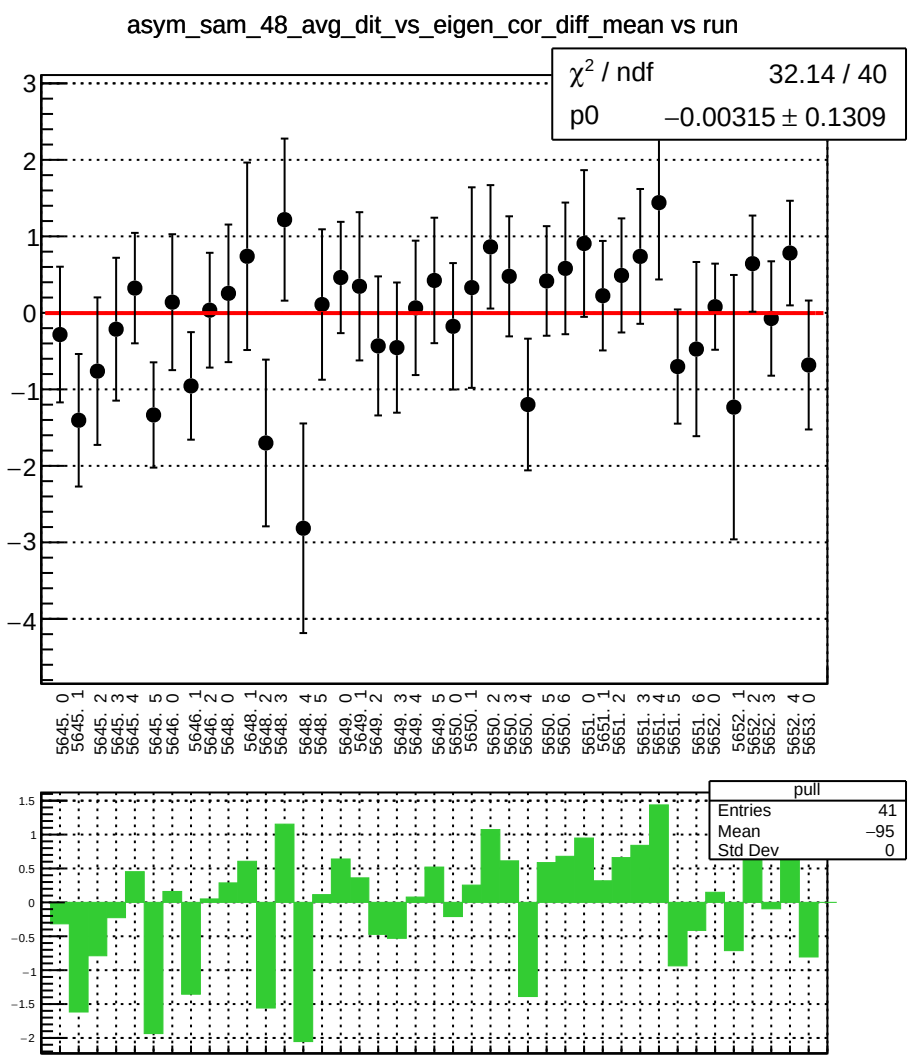

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.85 / 40
p0 1.898e−13 ± 1.965e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 39.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.1088
Std Dev 0.9155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

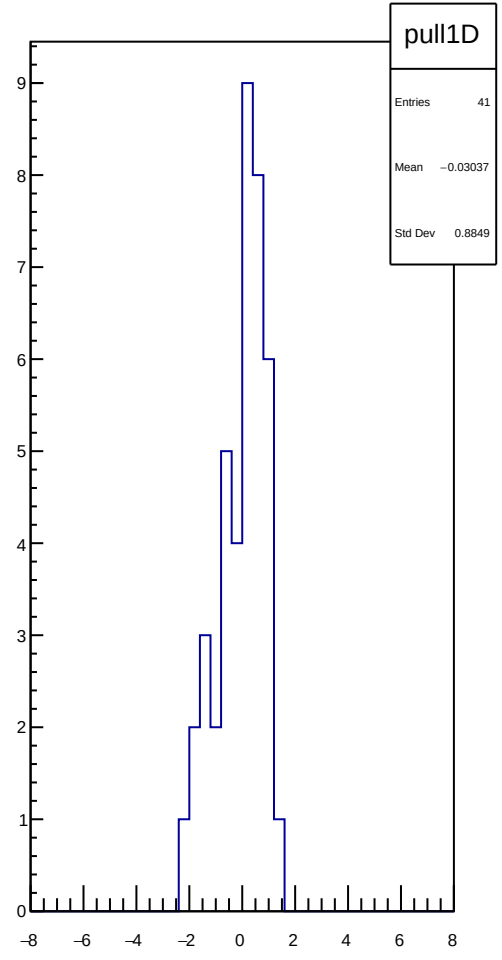

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.733e+05 / 40
p0 8.972e−11 ± 1.389e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

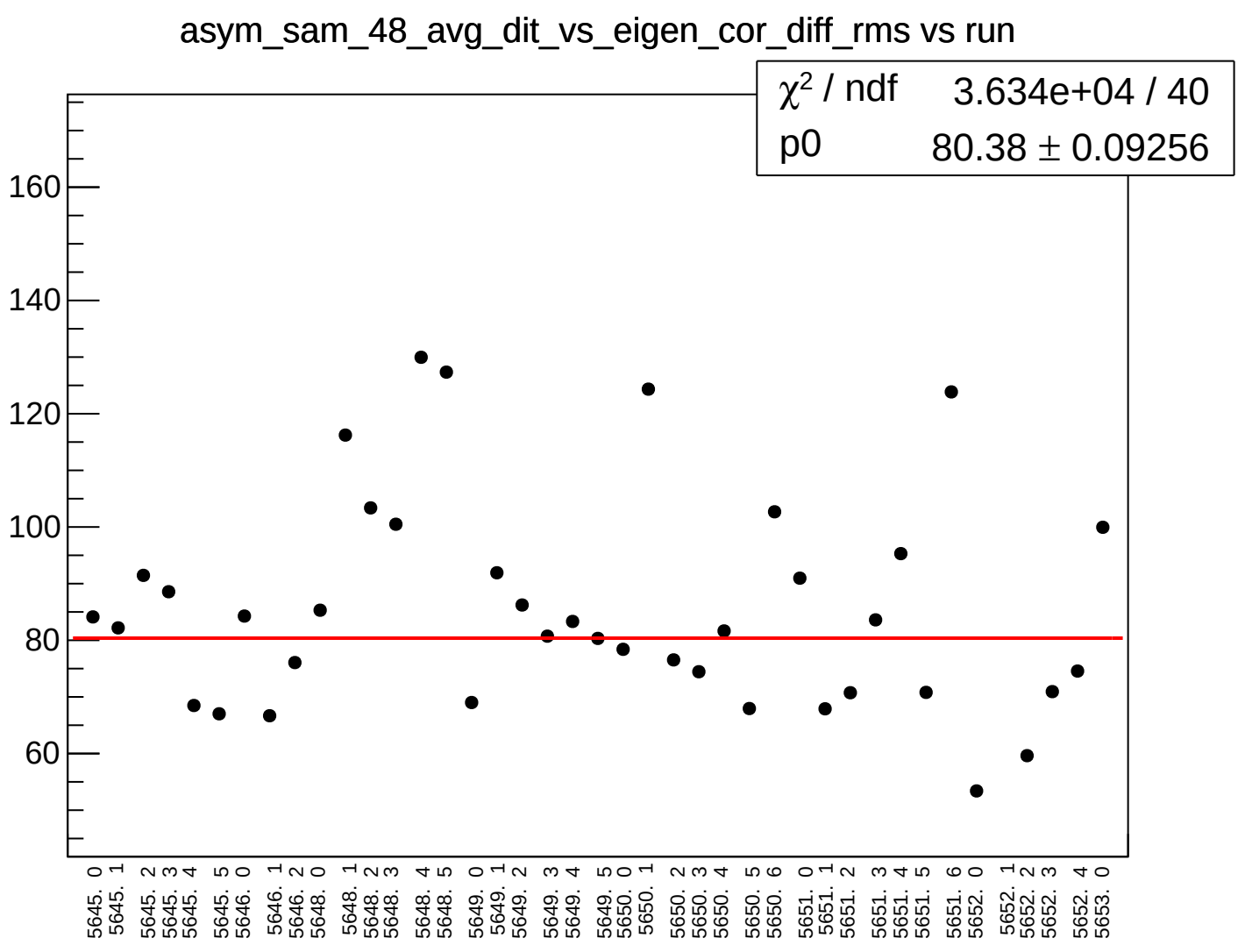

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 32.14 / 40
p0 −0.00315 ± 0.1309
pull
Entries 41
Mean −95
Std Dev 0

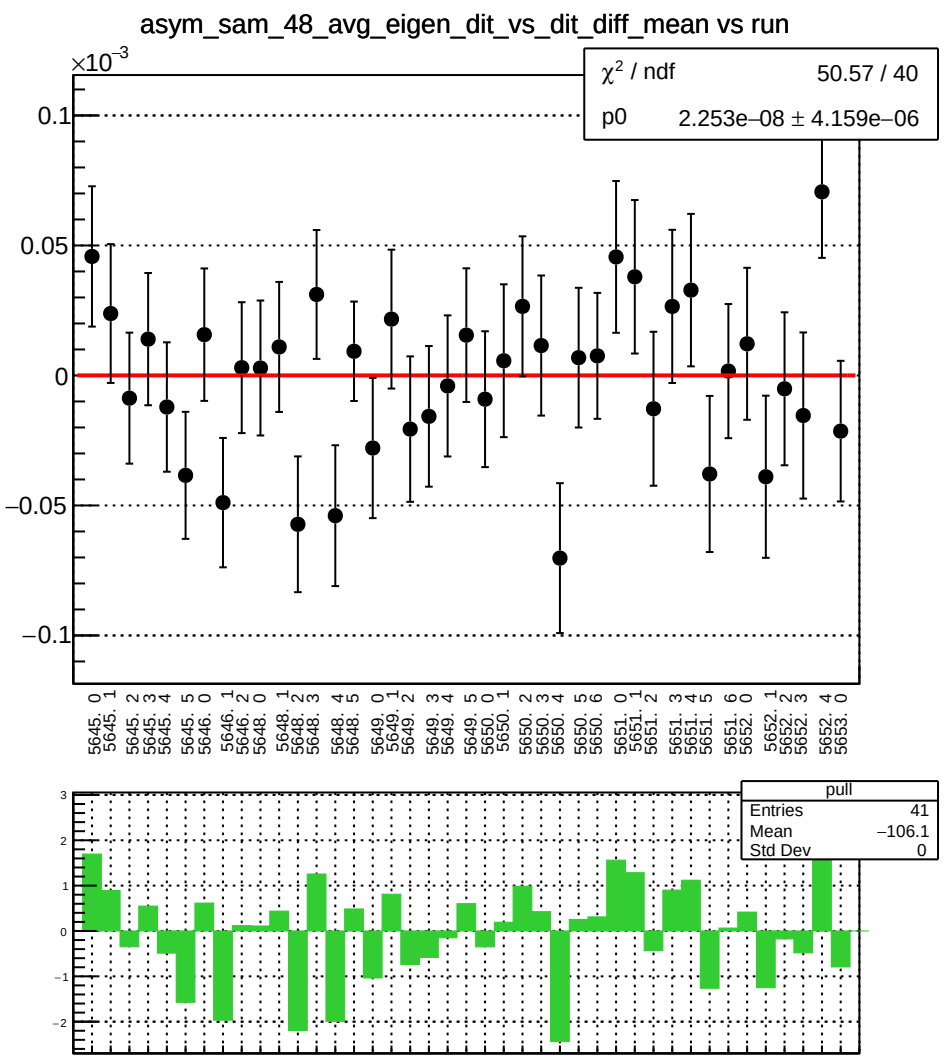

pull1D
Entries 41
Mean −0.03037
Std Dev 0.8849

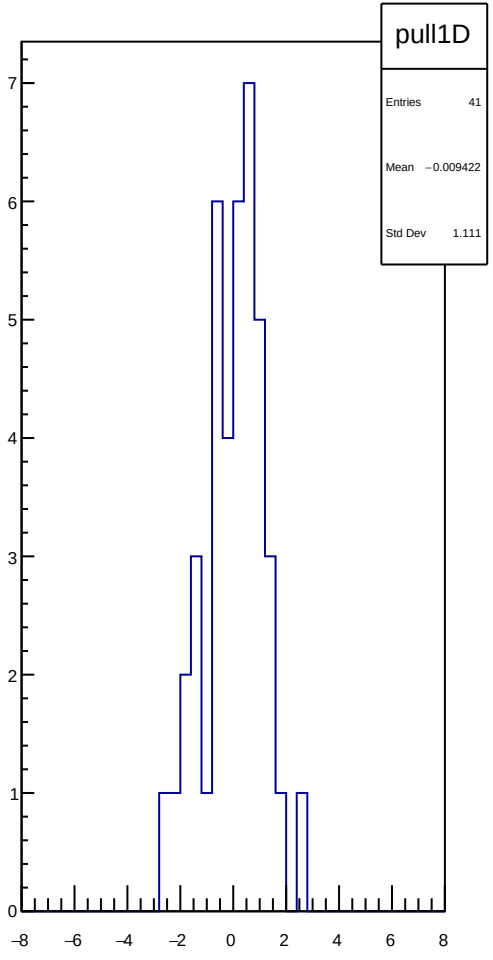

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.634e+04 / 40
p0 80.38 ± 0.09256
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

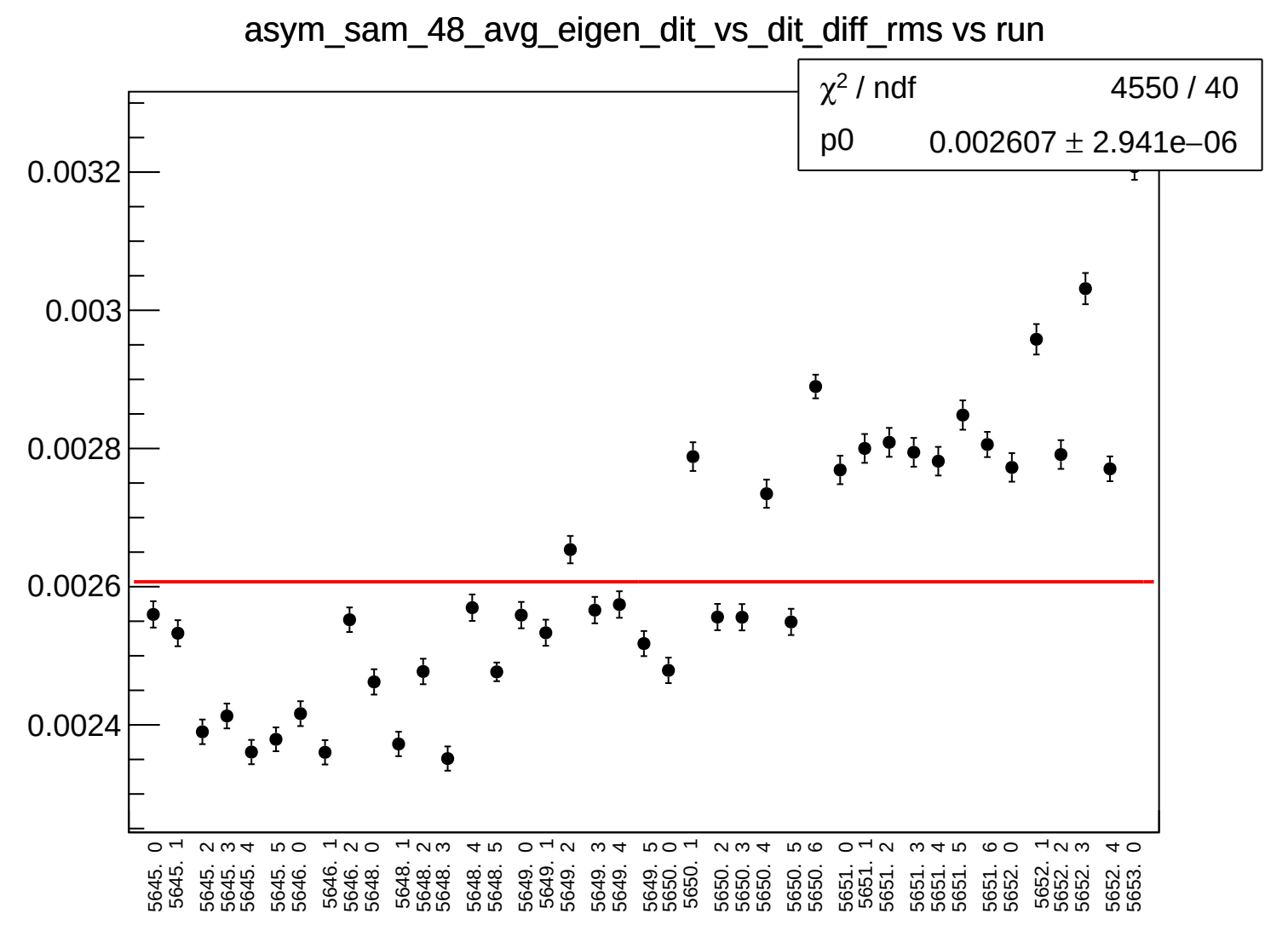

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.14 / 40
p0 −0.00315 ± 0.1309
pull
Entries 41
Mean −95
Std Dev 0


pull1D
Entries 41
Mean −0.03037
Std Dev 0.8849

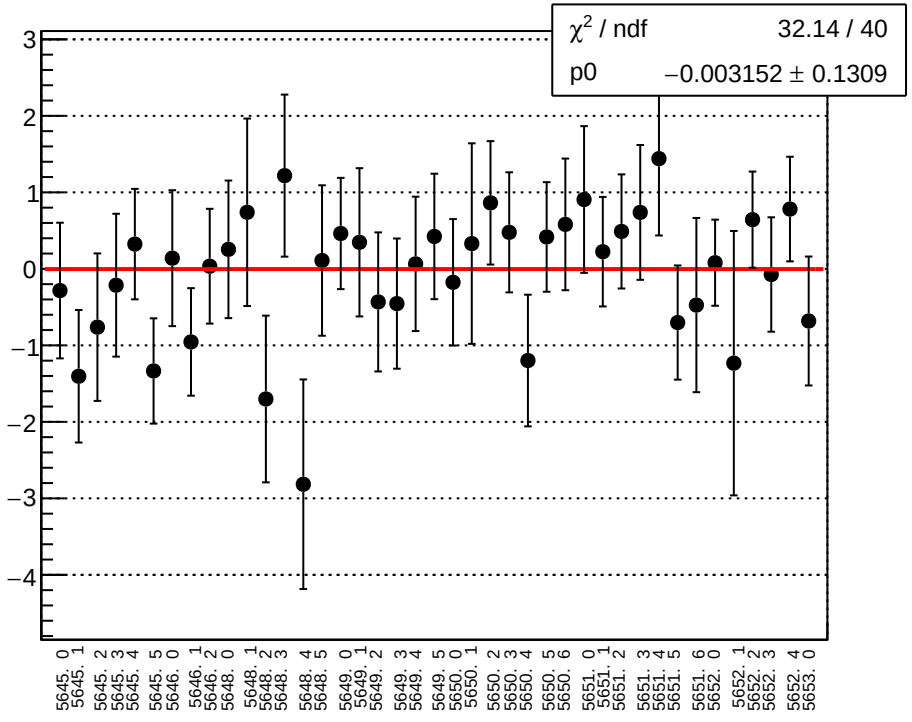

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.634e+04 / 40
p0 80.38 ± 0.09256
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

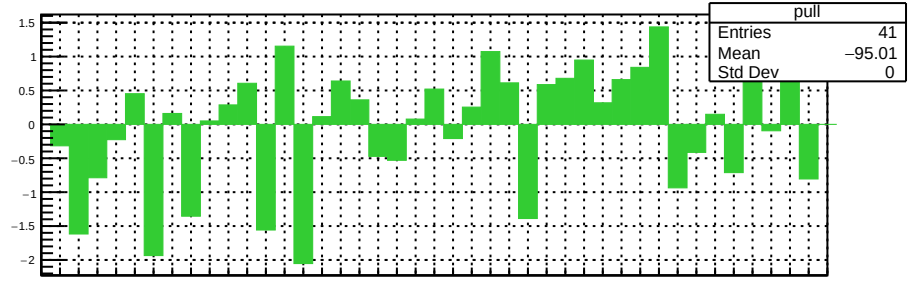

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 50.57 / 40
p0 2.253e−08 ± 4.159e−06
0.1
0.05
0
−0.05
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −106.1
Std Dev 0
3
2
1
0
−1
−2

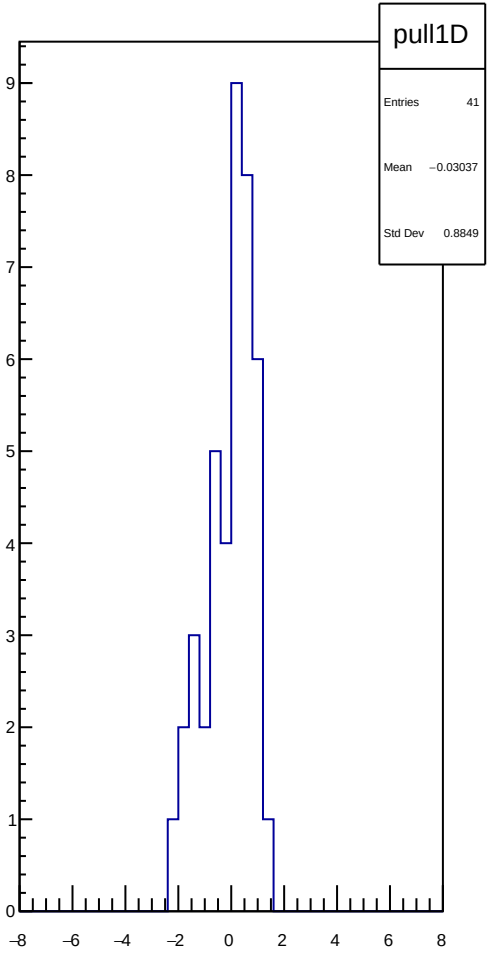

pull1D
Entries 41
Mean −0.009422
Std Dev 1.111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

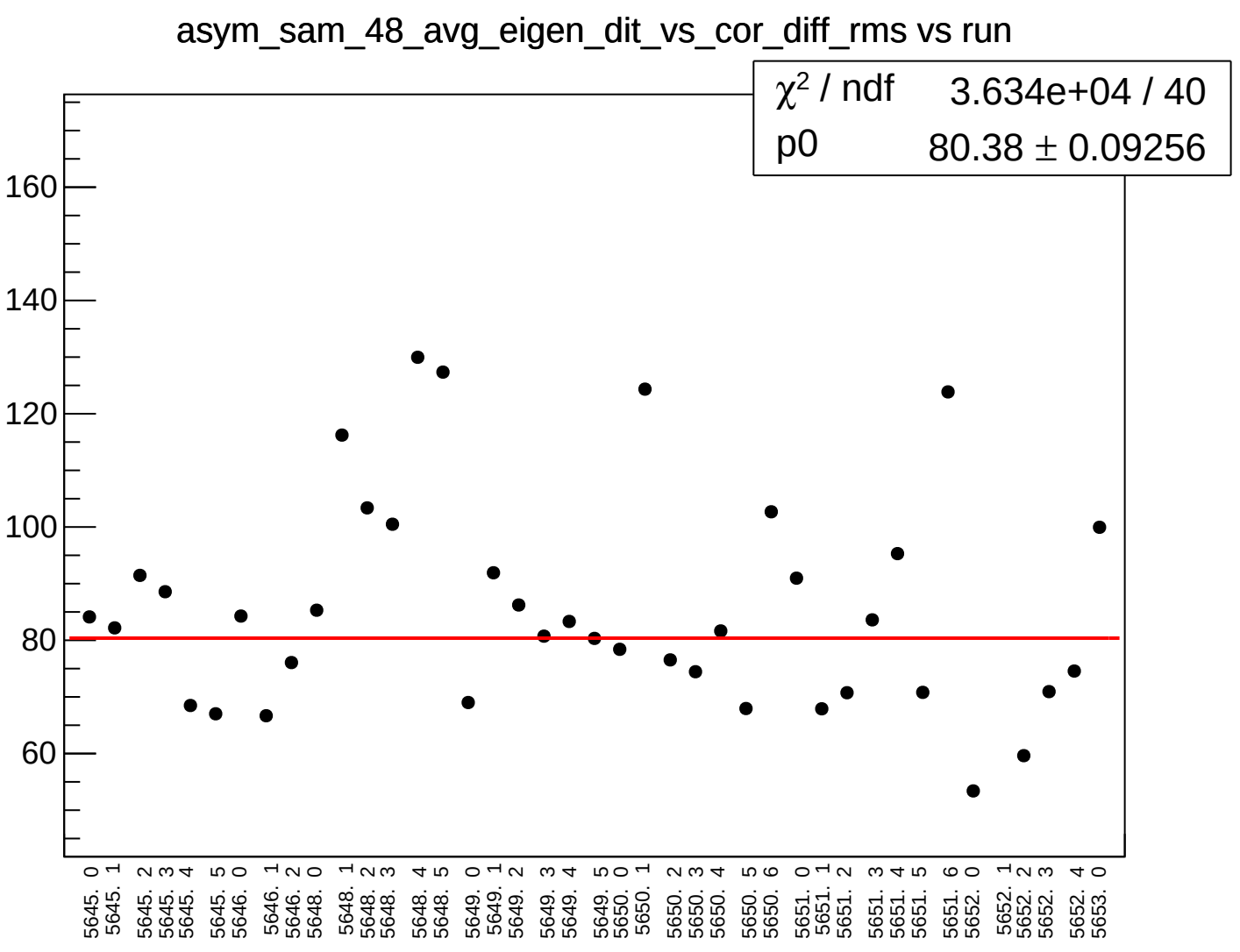

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4550 / 40
p0 0.002607 ± 2.941e−06
0.0032
0.003
0.0028
0.0026
0.0024
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

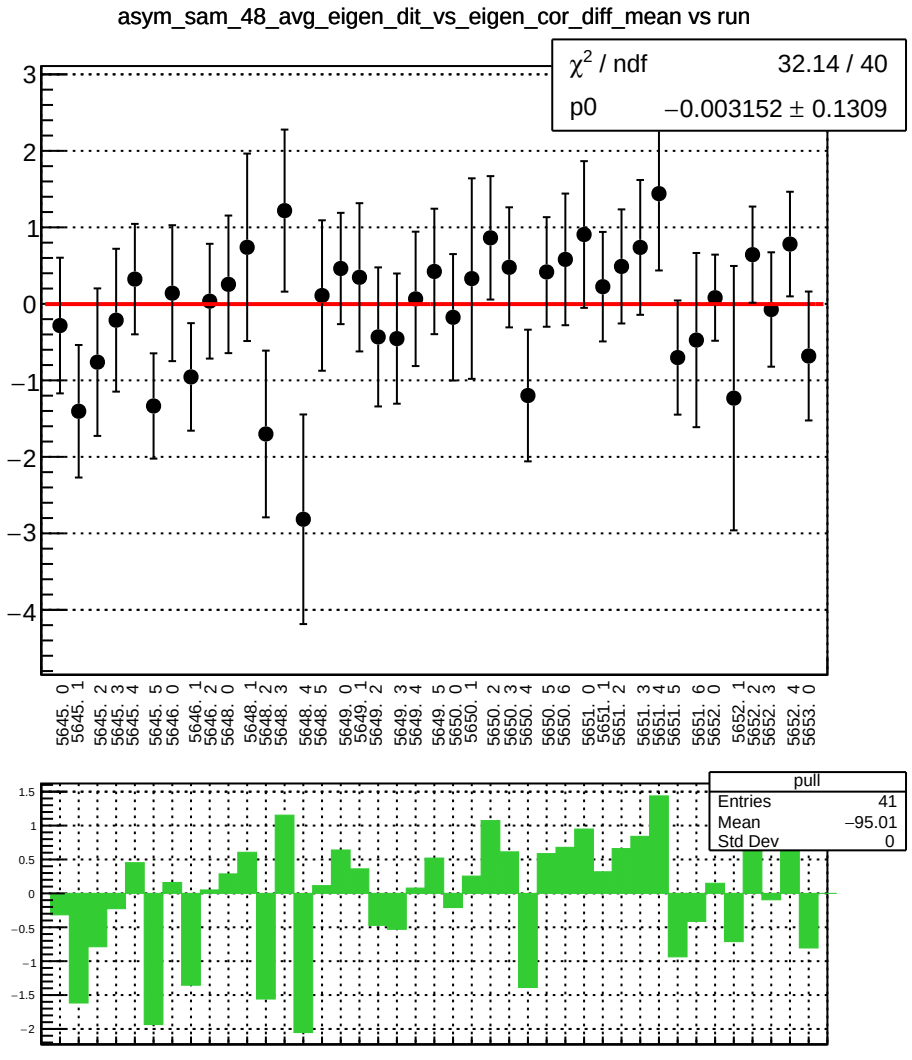
asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run

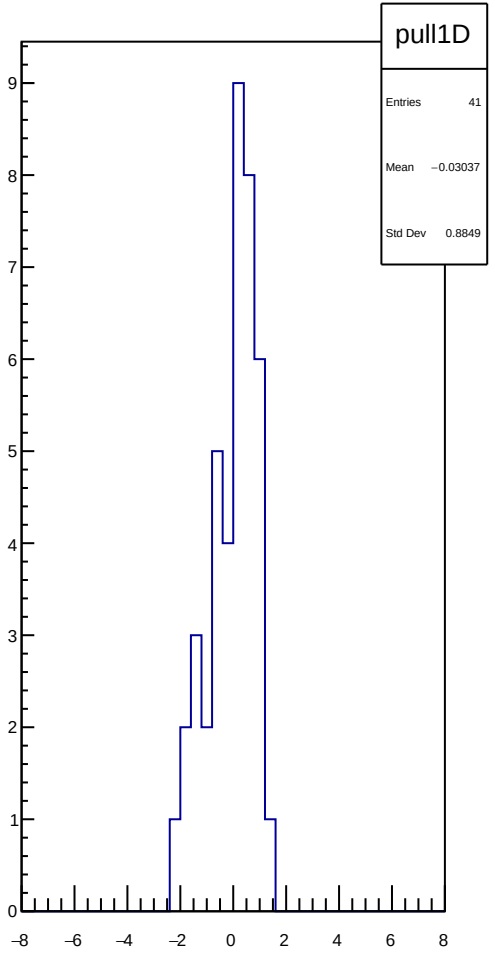


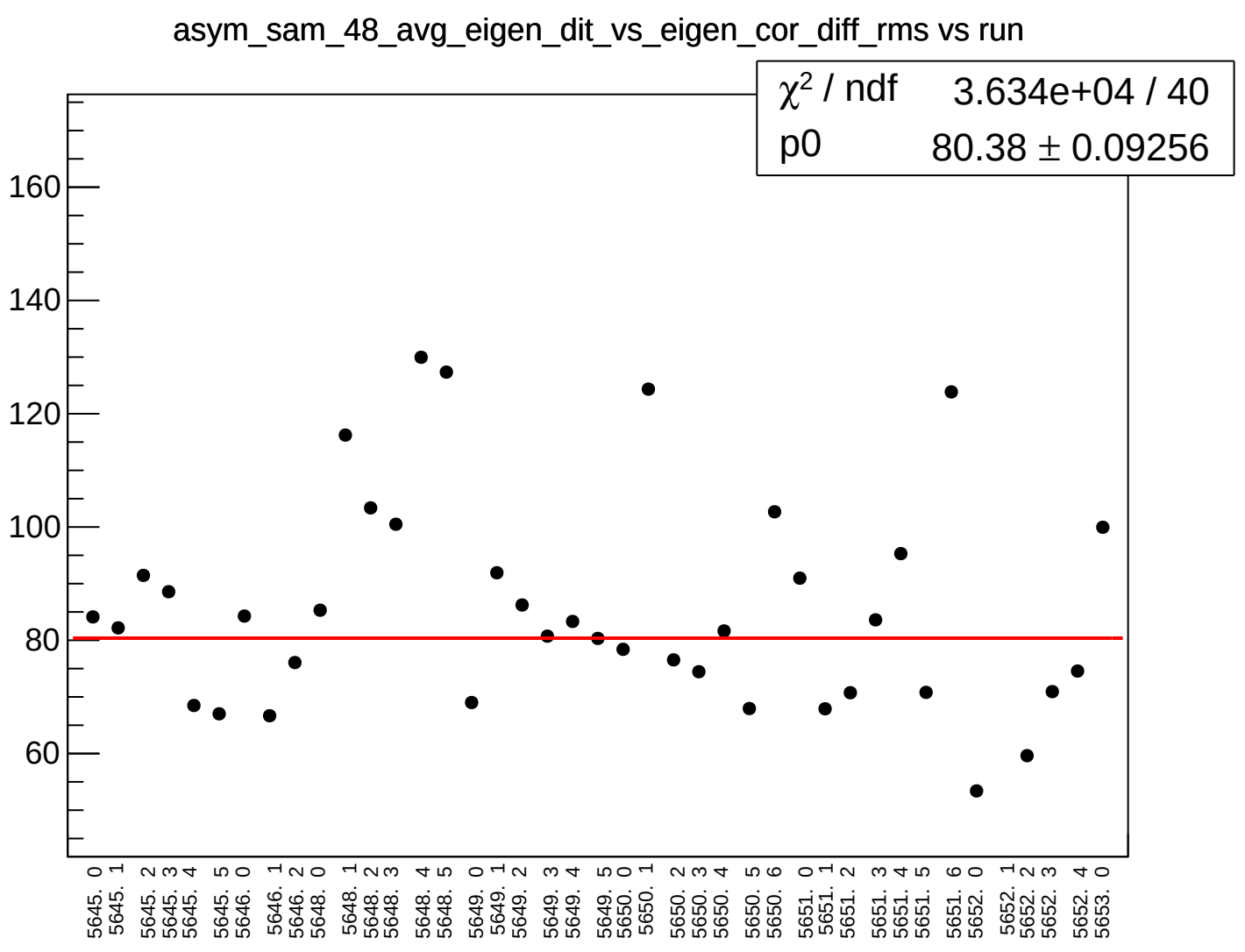


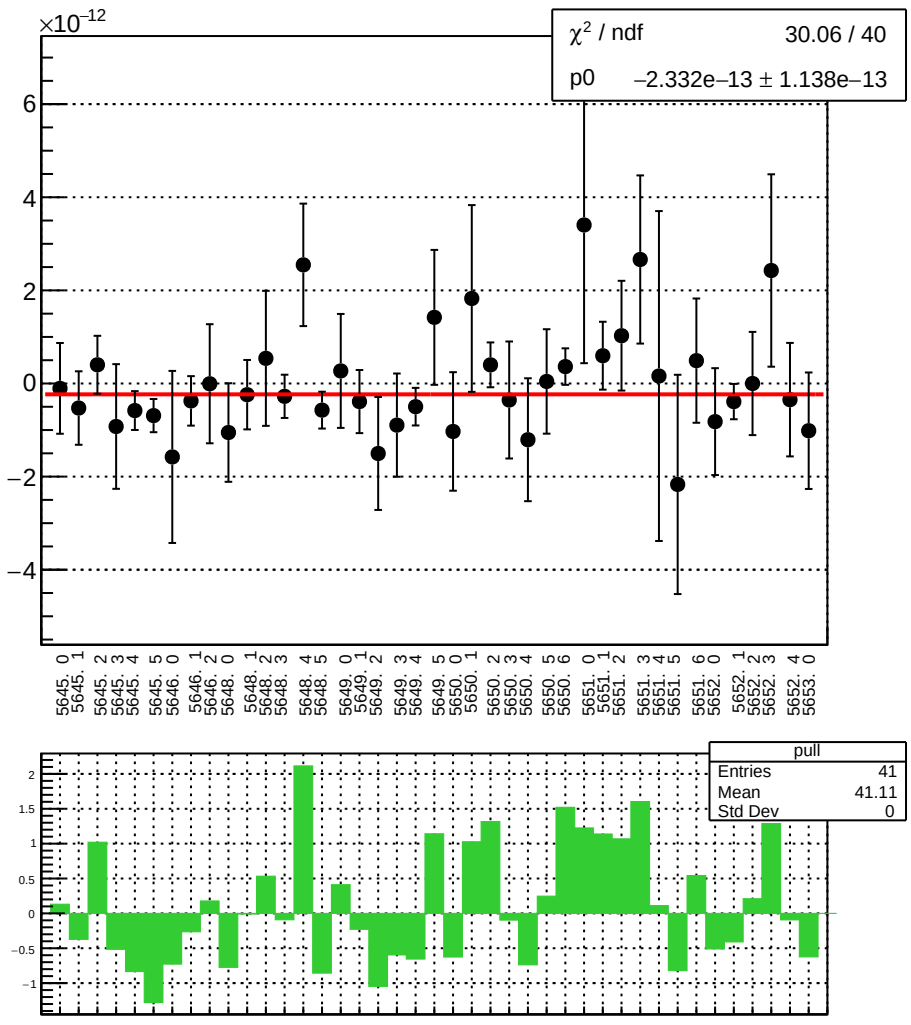


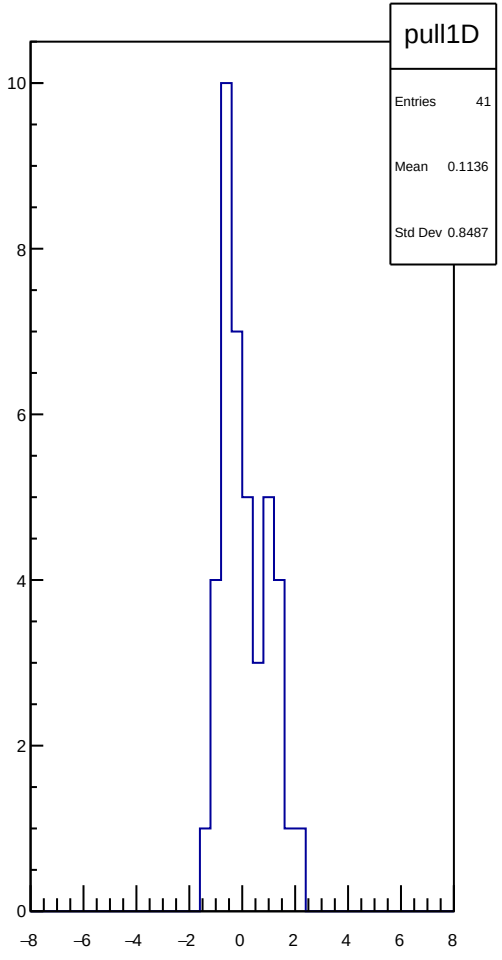

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.634e+04 / 40
p0 80.38 ± 0.09256
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

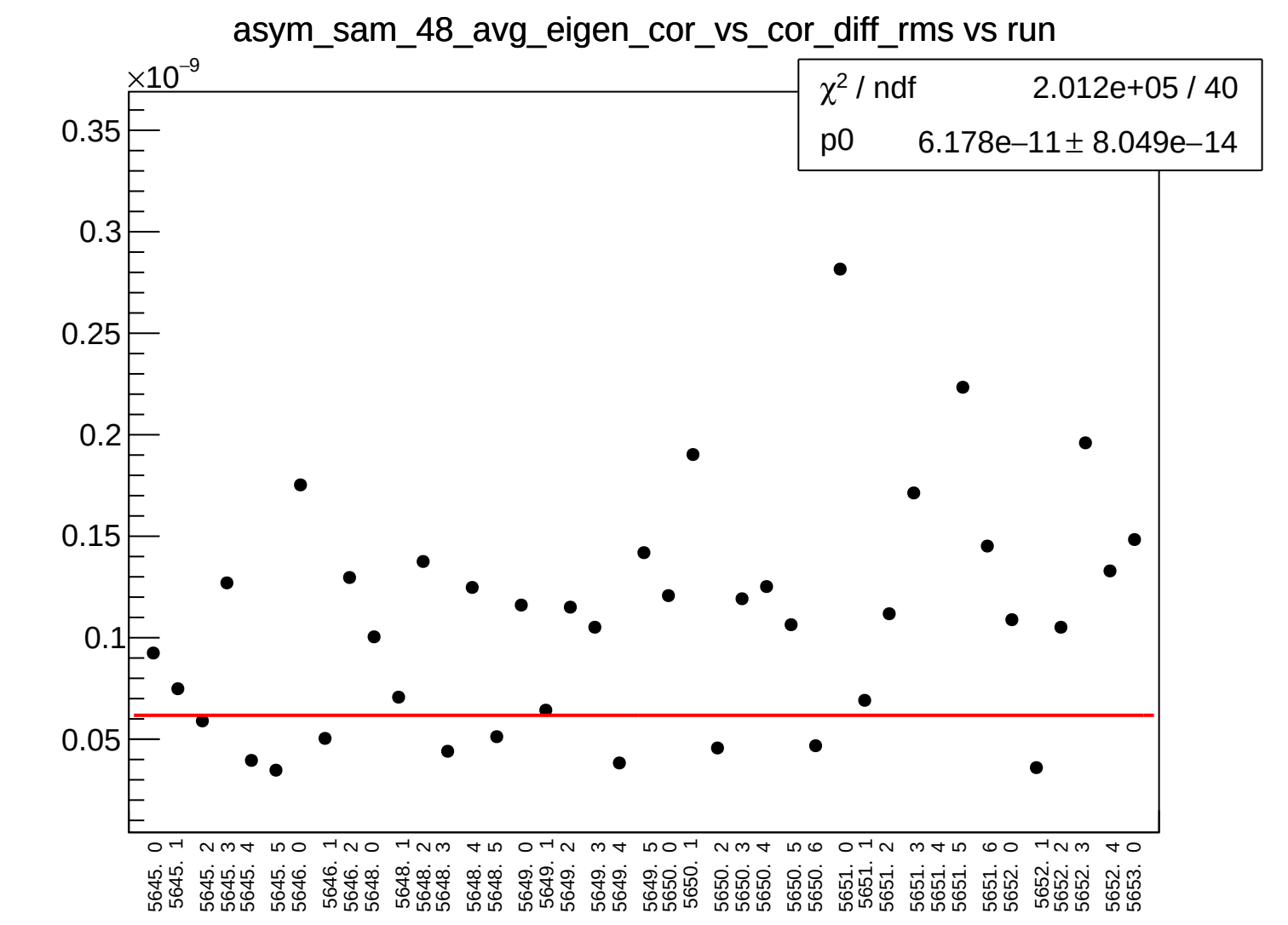

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.14 / 40
p0 −0.003152 ± 0.1309
pull
Entries 41
Mean −95.01
Std Dev 0

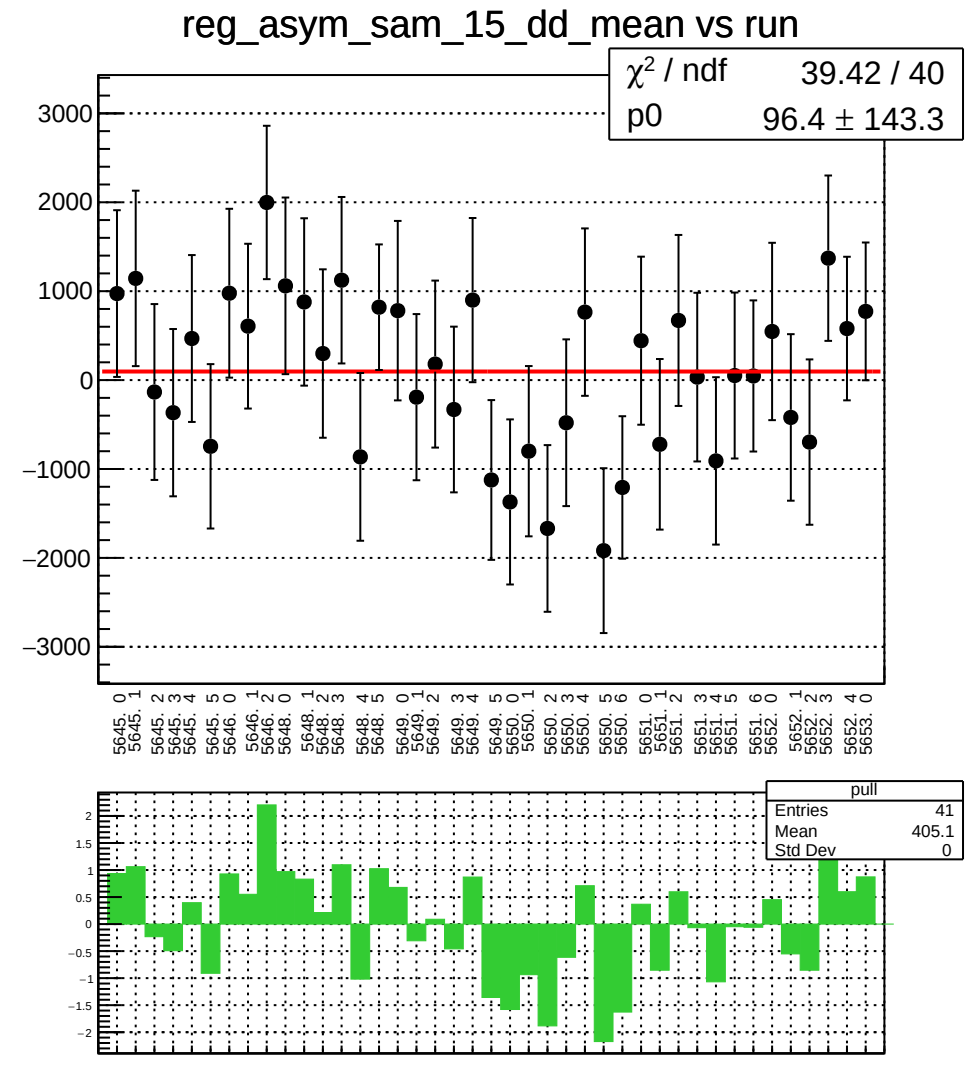

pull1D
Entries 41
Mean −0.03037
Std Dev 0.8849

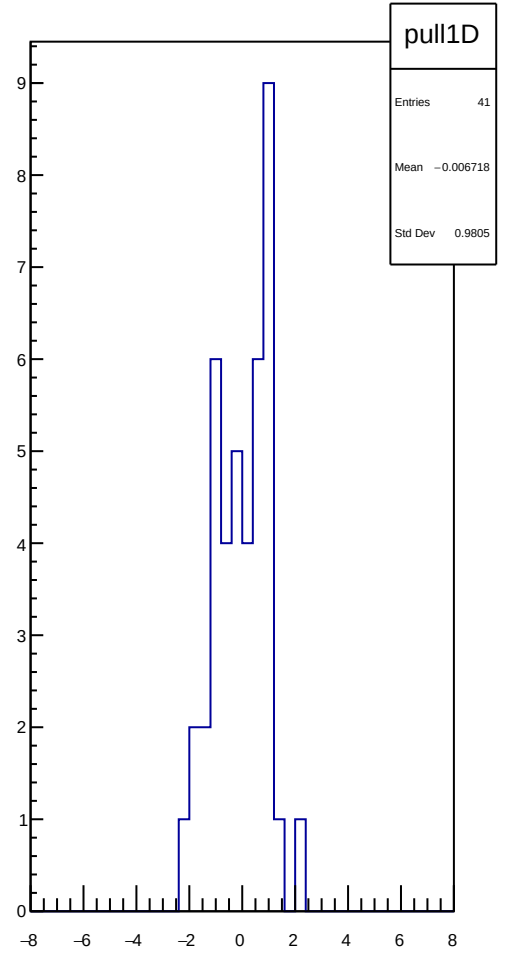

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.634e+04 / 40
p0 80.38 ± 0.09256
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

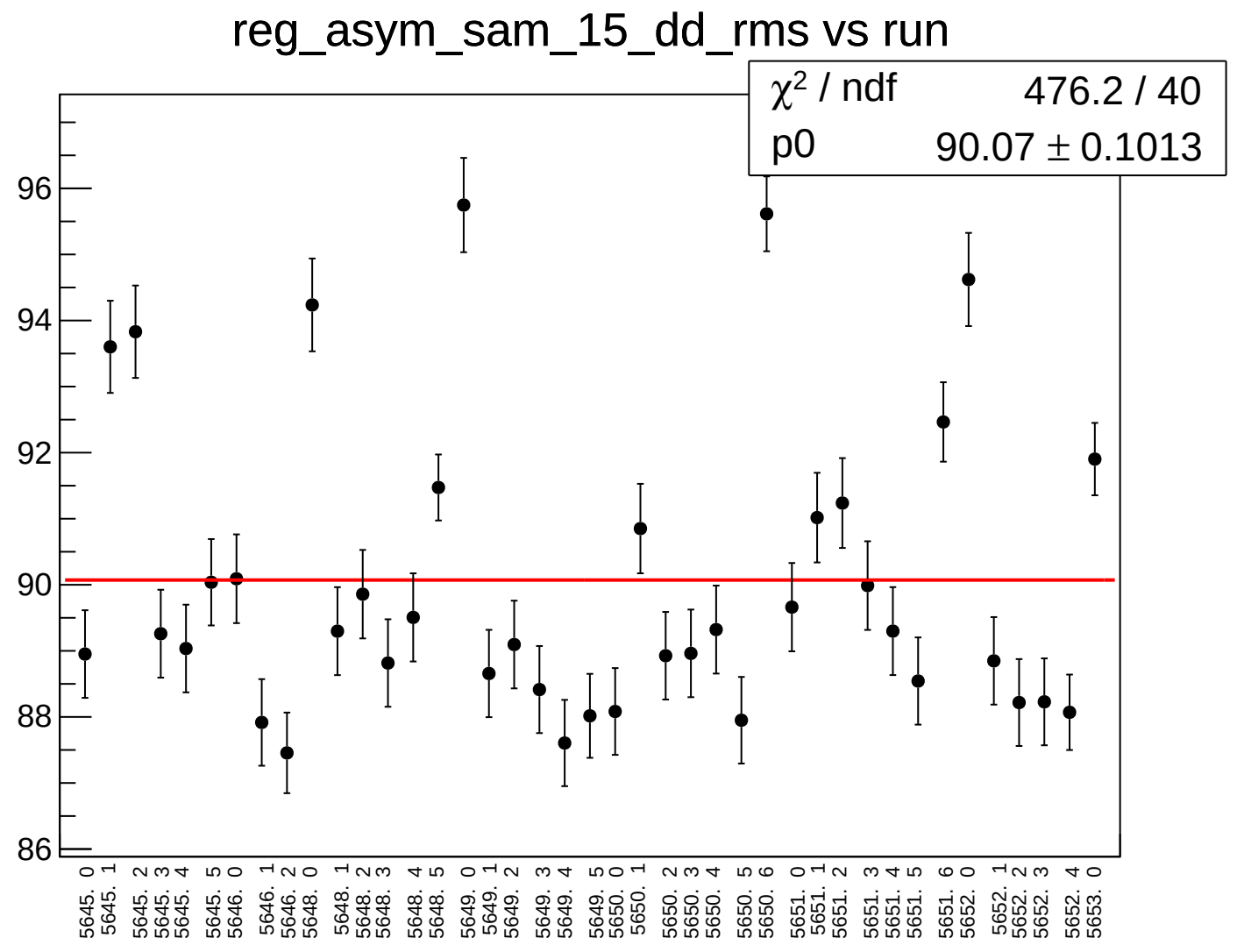

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.06 / 40
p0 −2.332e−13 ± 1.138e−13
pull
Entries 41
Mean 41.11
Std Dev 0

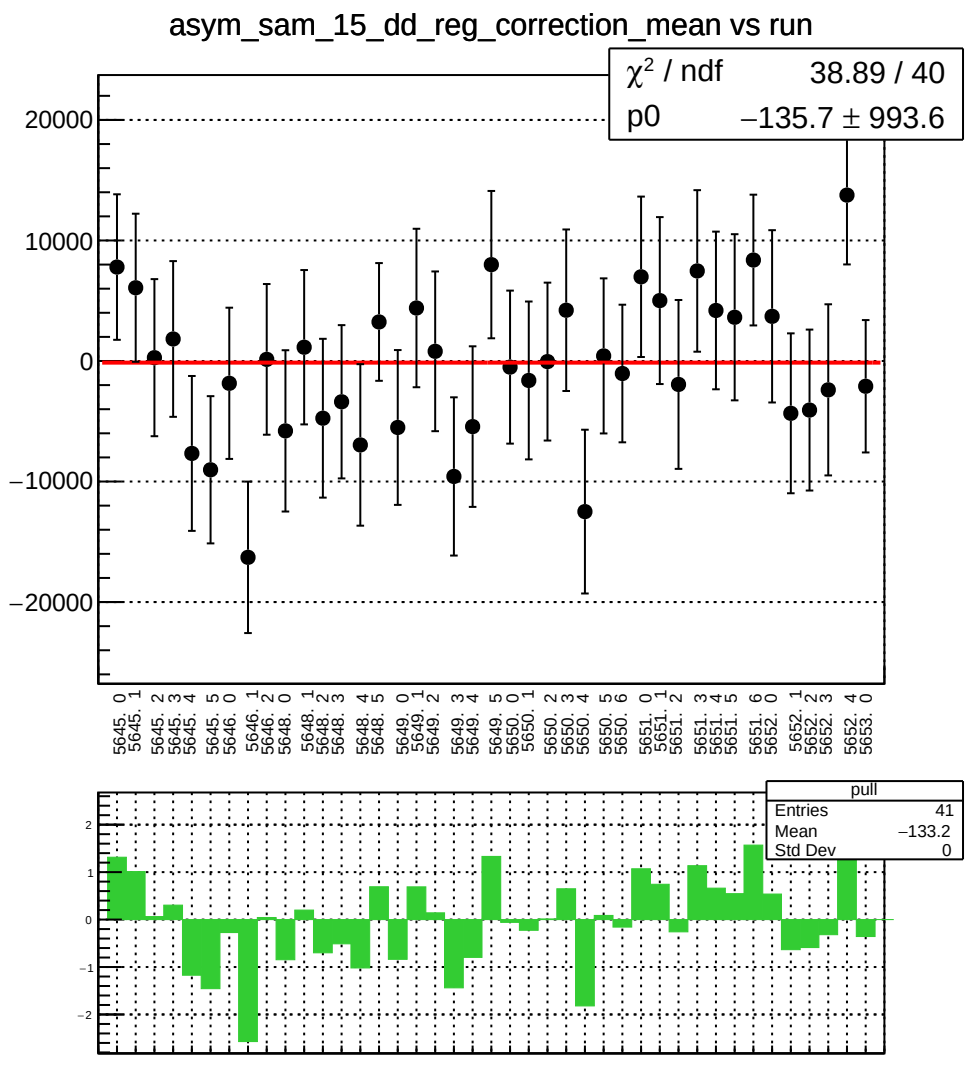

pull1D
Entries 41
Mean 0.1136
Std Dev 0.8487

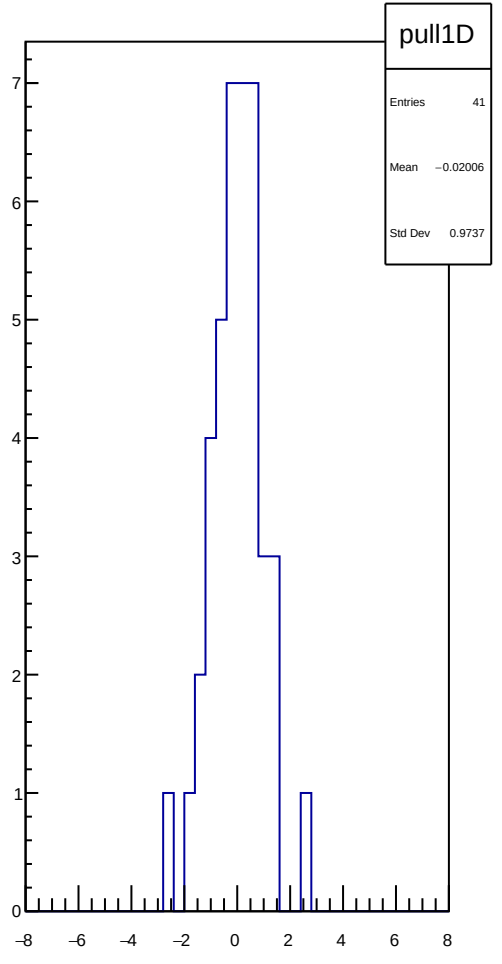

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.012e+05 / 40
p0 6.178e−11 ± 8.049e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

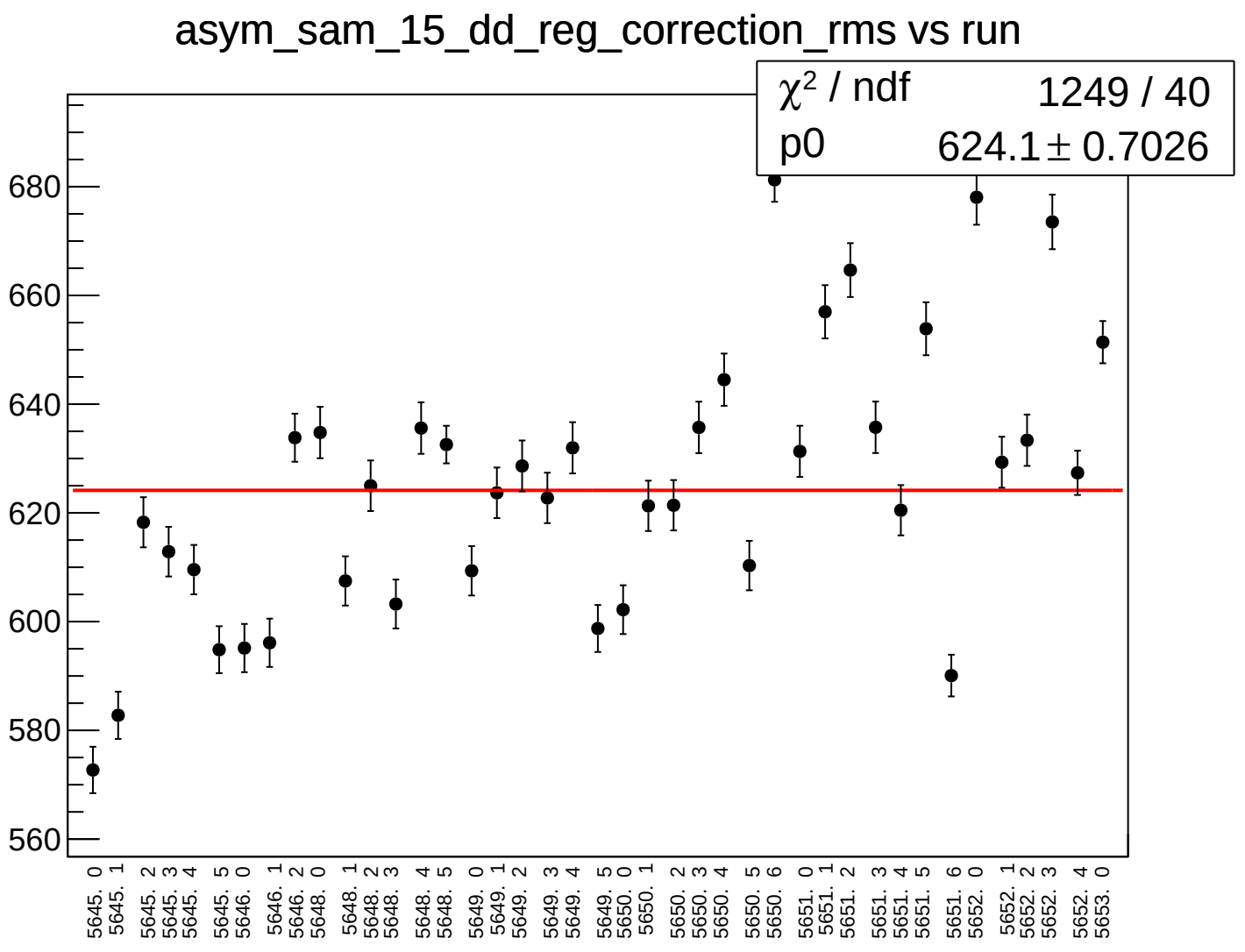

reg_asym_sam_15_dd_mean vs run
χ² / ndf 39.42 / 40
p0 96.4 ± 143.3
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 405.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

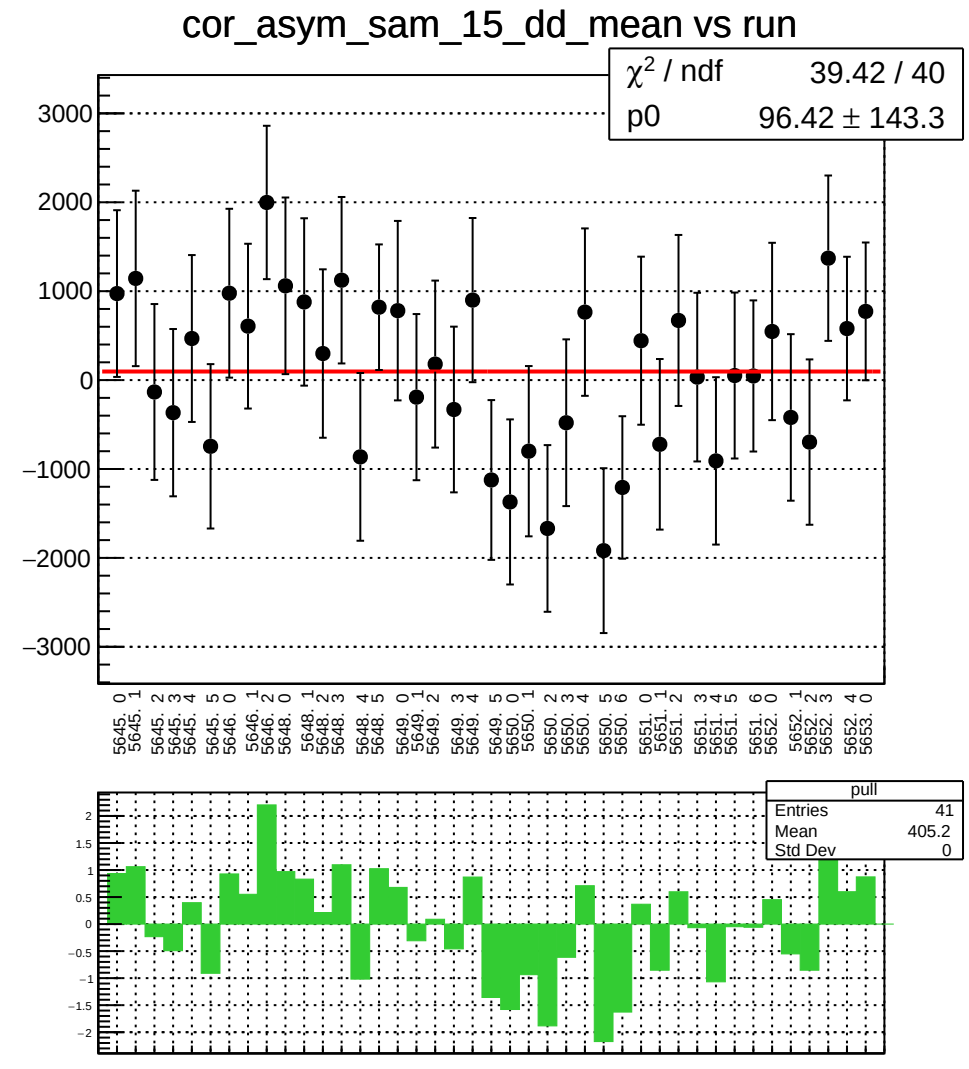

pull1D
Entries 41
Mean −0.006718
Std Dev 0.9805
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

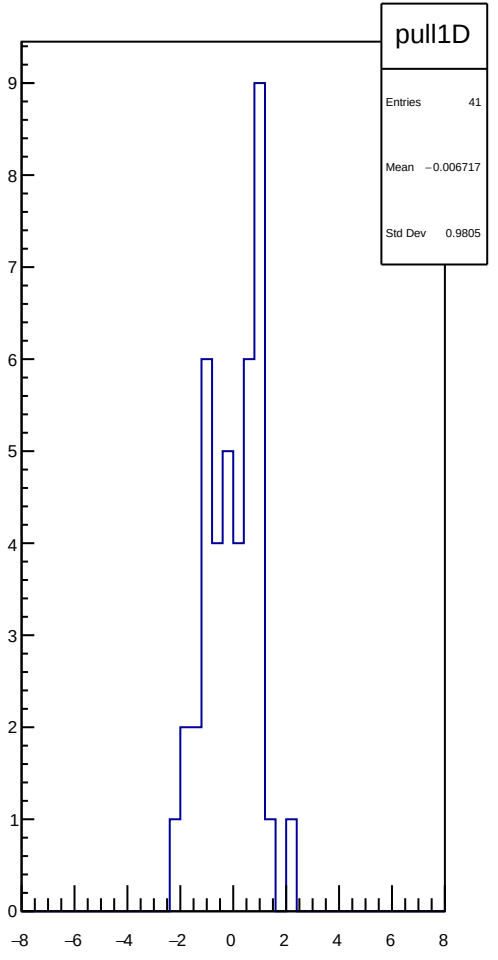

reg_asym_sam_15_dd_rms vs run
χ² / ndf 476.2 / 40
p0 90.07 ± 0.1013
96
94
92
90
88
86
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 38.89 / 40
p0 −135.7 ± 993.6
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −133.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.02006
Std Dev 0.9737
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 1249 / 40
p0 624.1 ± 0.7026
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_sam_15_dd_mean vs run
χ² / ndf 39.42 / 40
p0 96.42 ± 143.3
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 405.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.006717
Std Dev 0.9805
9
8
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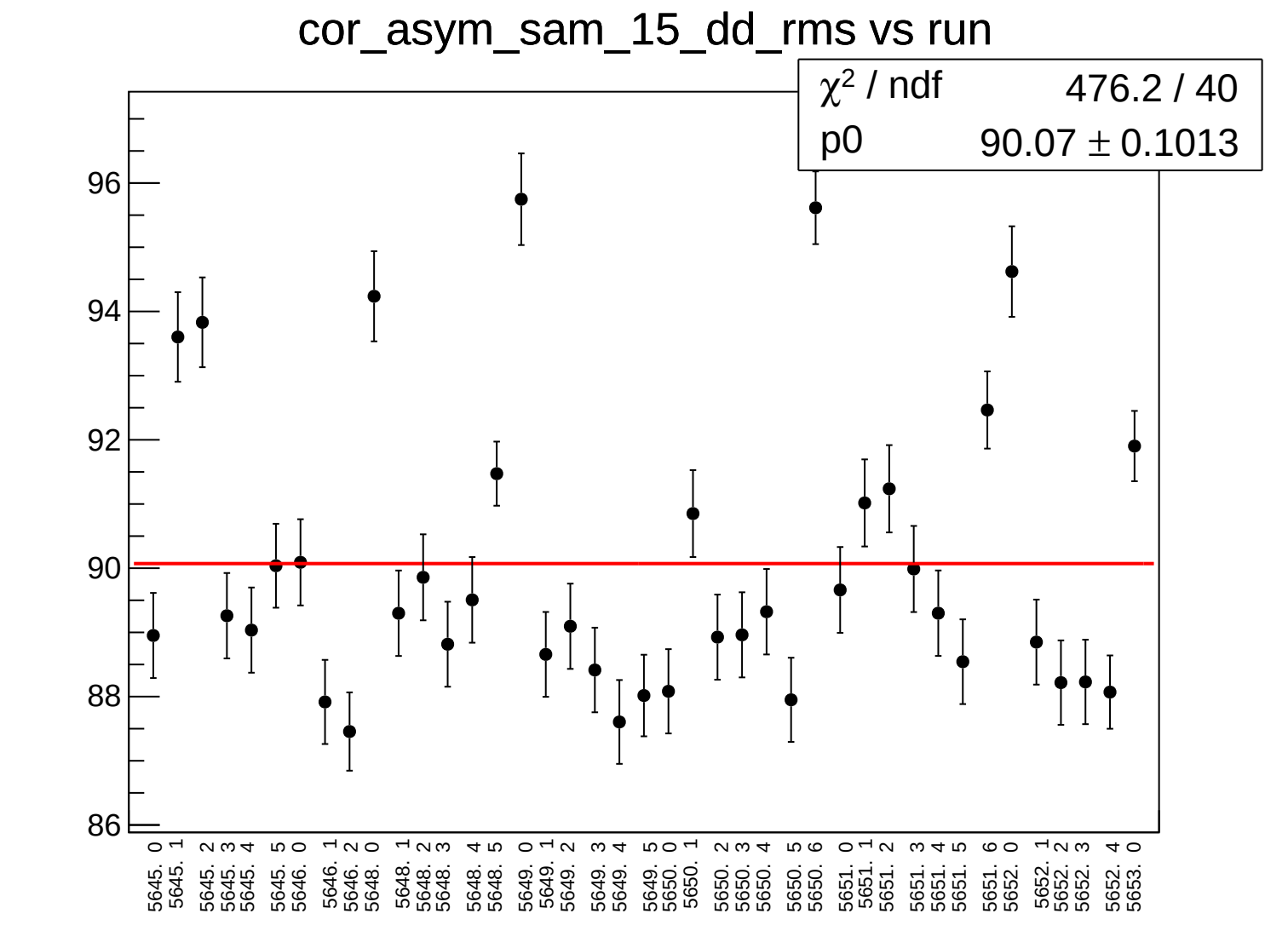
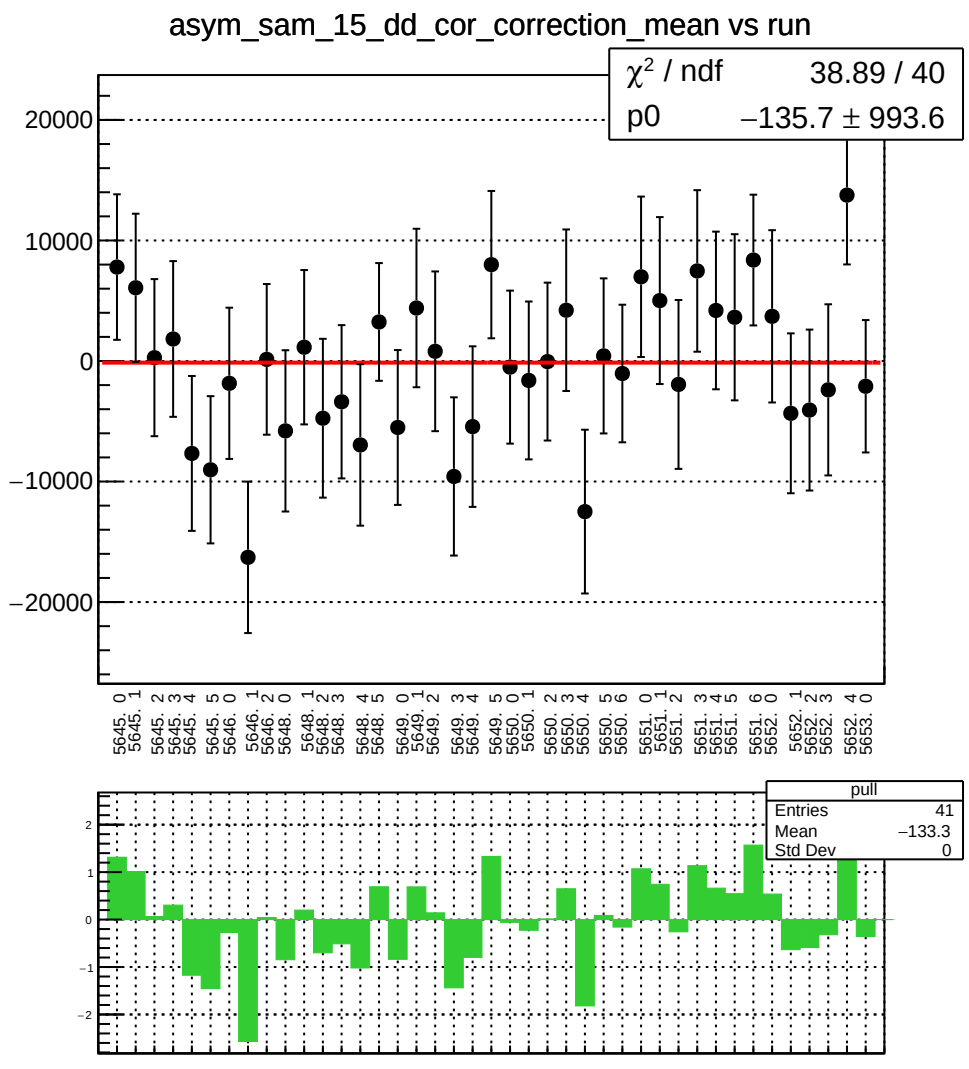
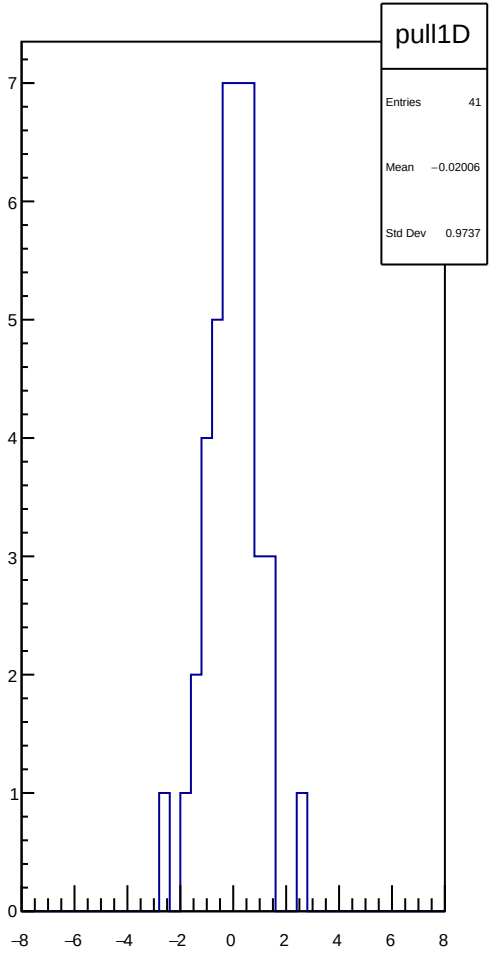
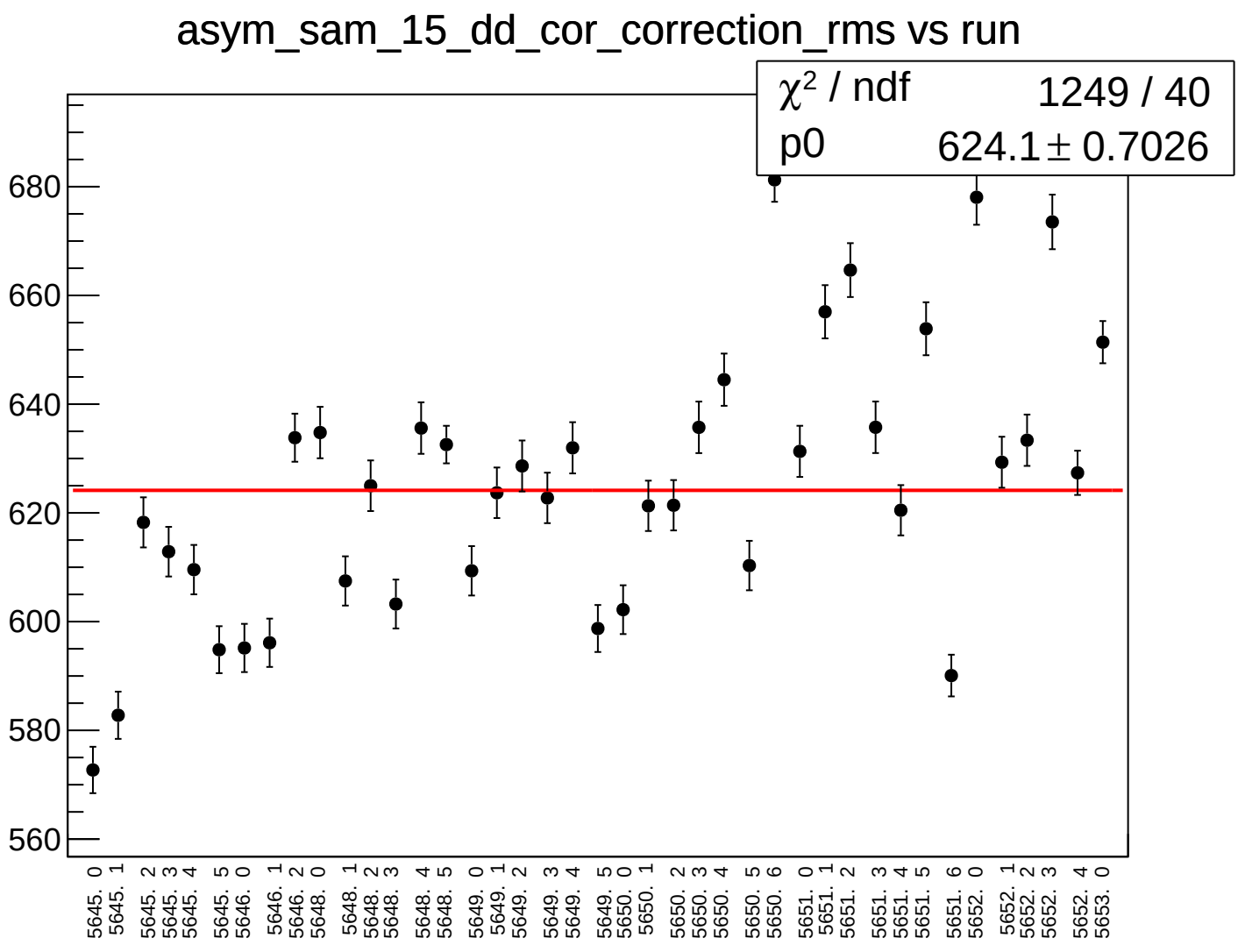
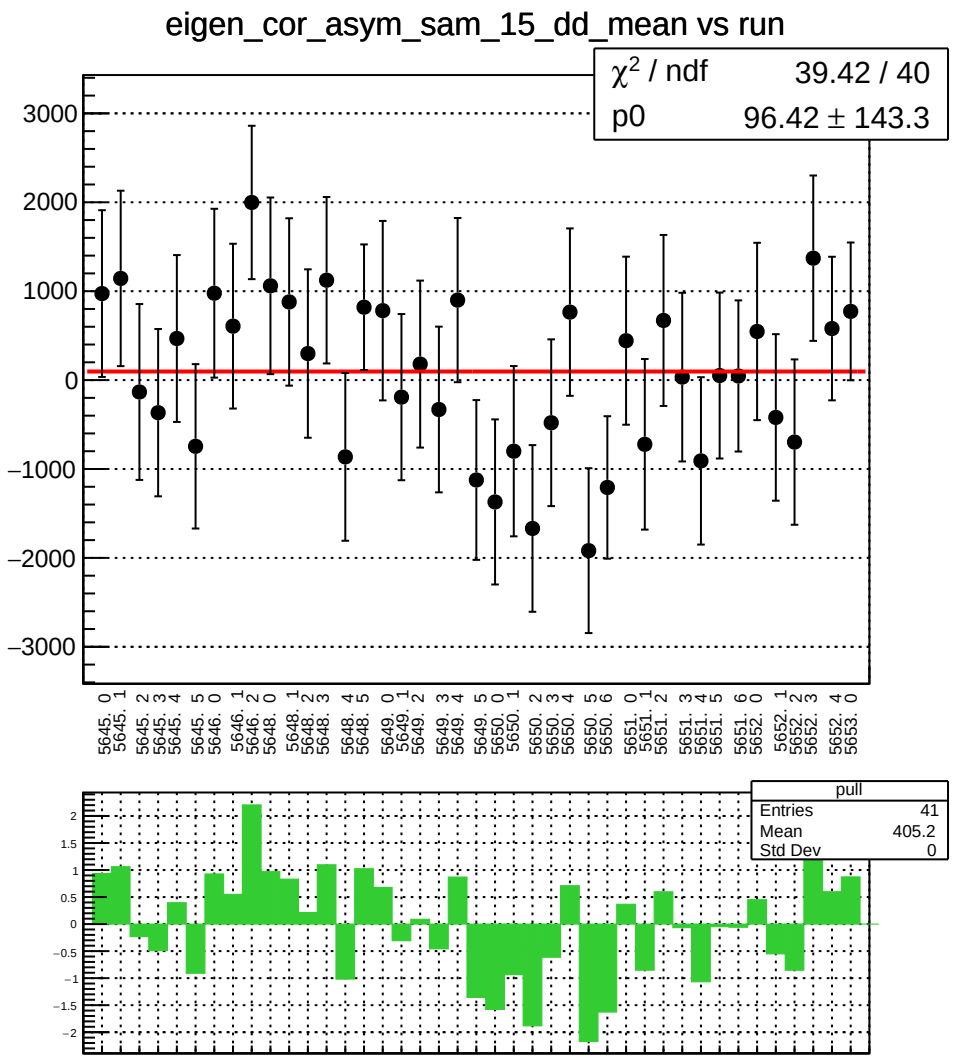
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

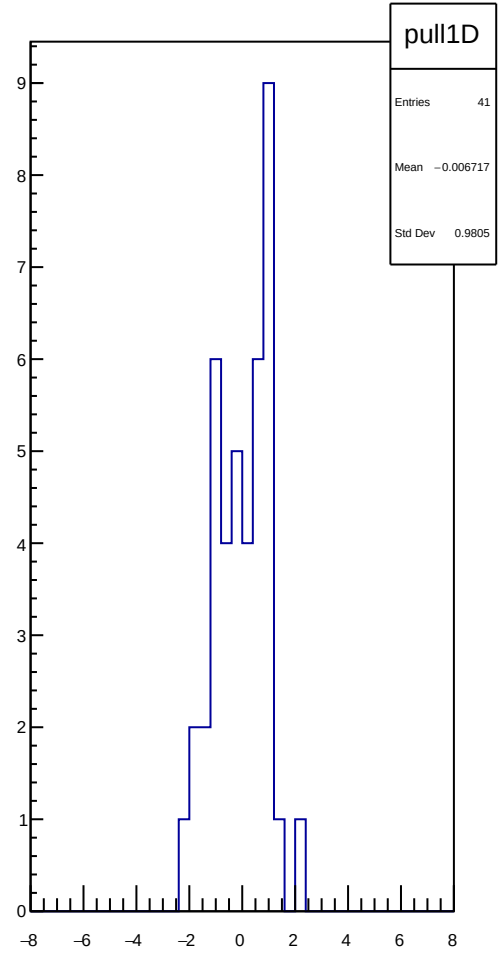

cor_asym_sam_15_dd_rms vs run
χ² / ndf 476.2 / 40
p0 90.07 ± 0.1013
96
94
92
90
88
86
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

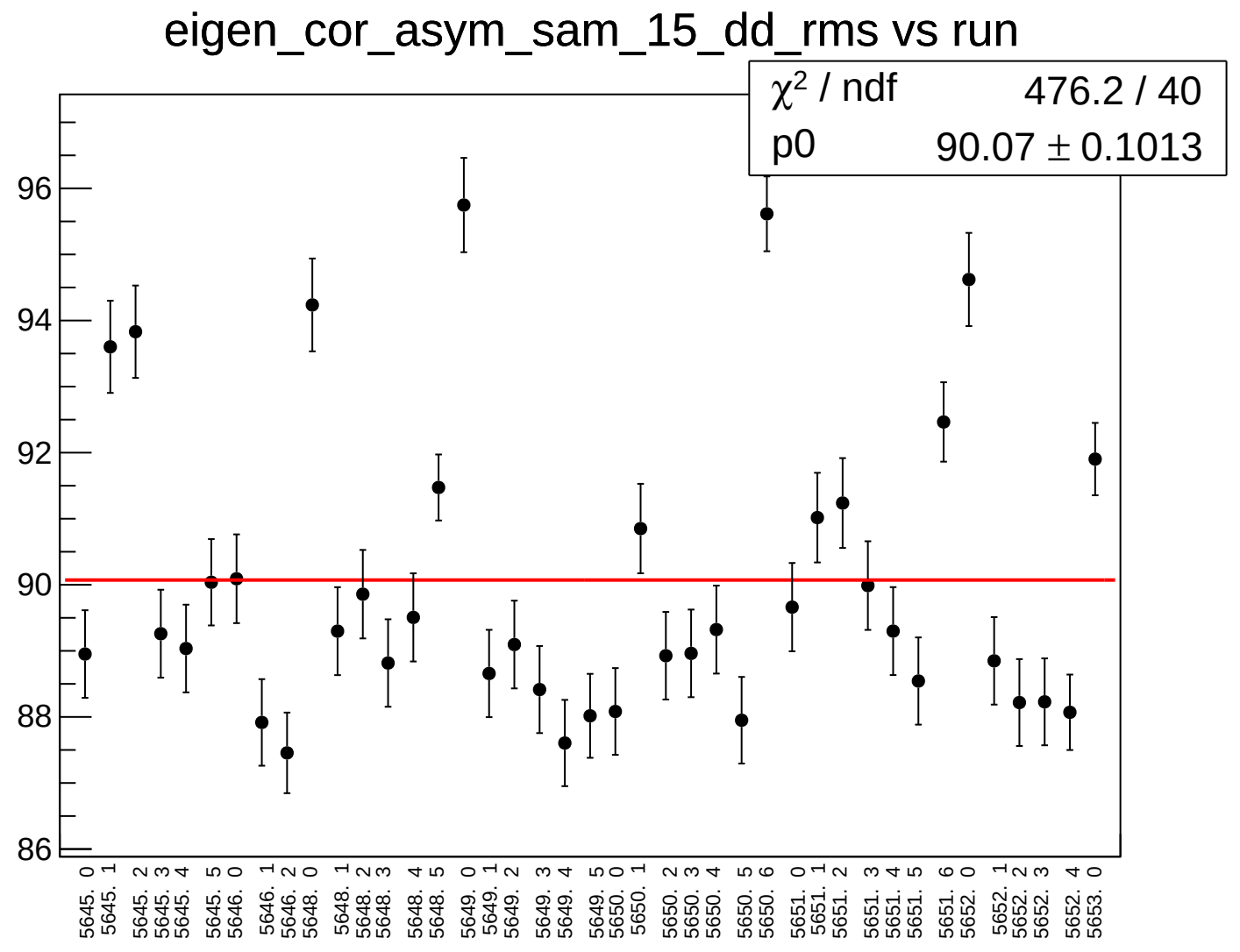

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 38.89 / 40
p0 −135.7 ± 993.6
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −133.3
Std Dev 0
2
1
0
−1
−2

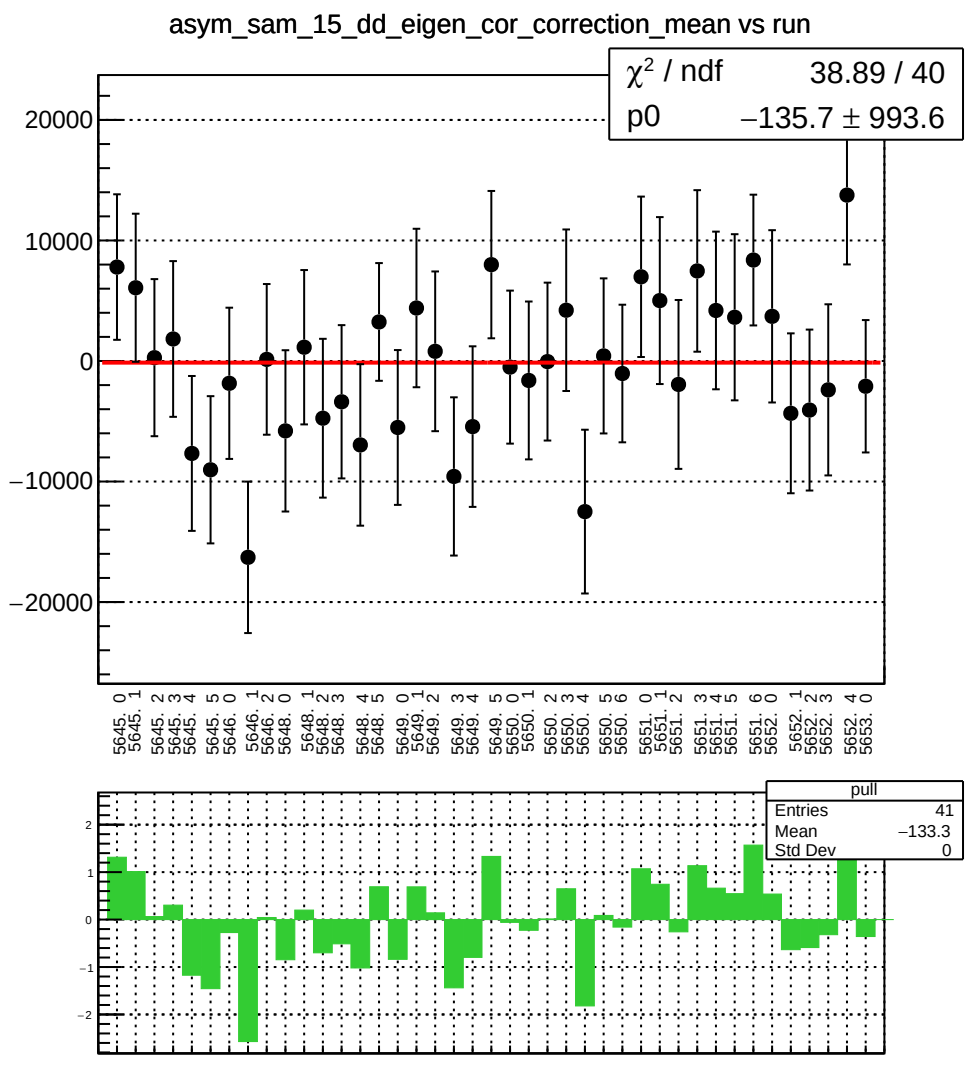

pull1D
Entries 41
Mean −0.02006
Std Dev 0.9737
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

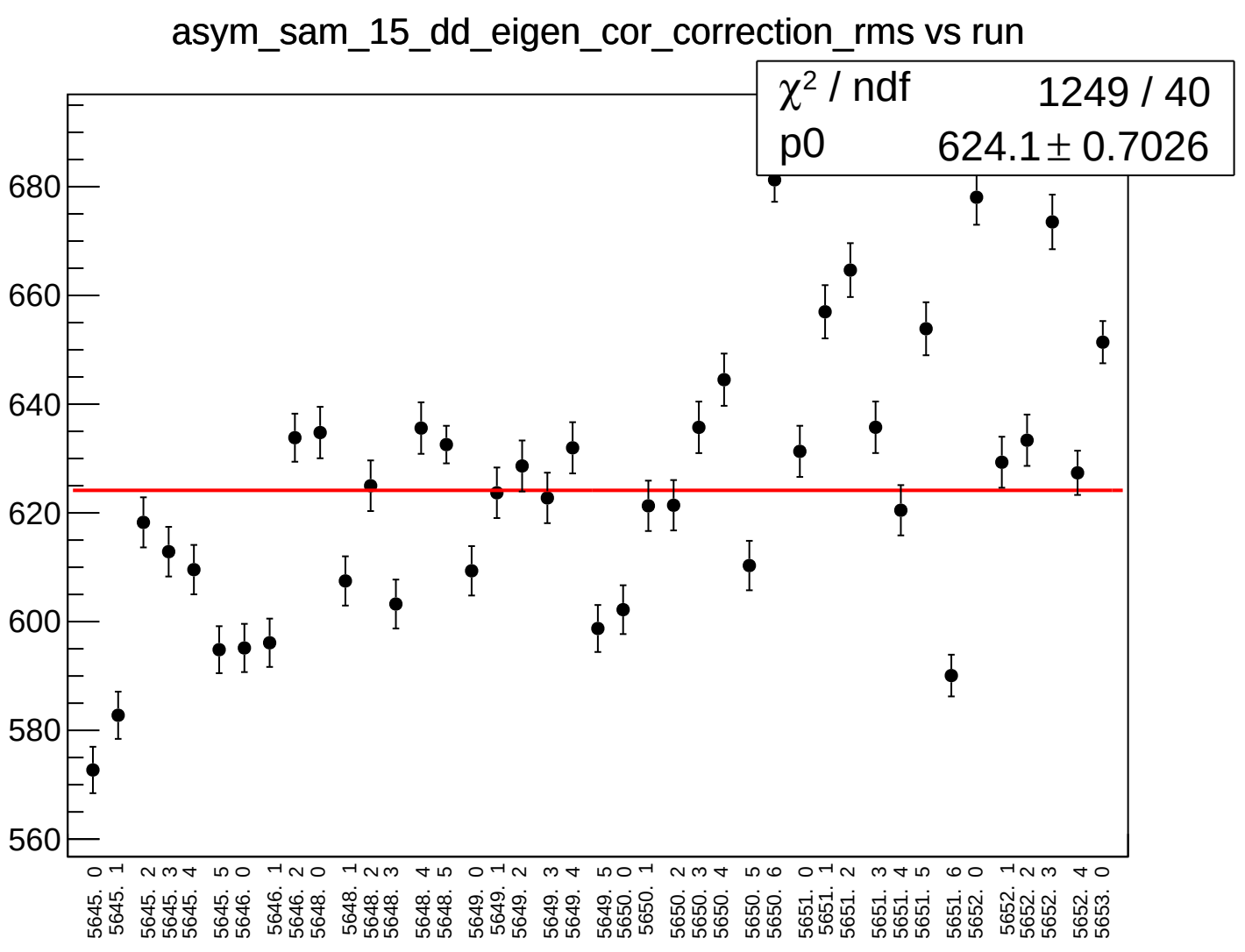

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1249 / 40
p0 624.1 ± 0.7026
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 39.42 / 40
p0 96.42 ± 143.3
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 405.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.006717
Std Dev 0.9805
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 476.2 / 40
p0 90.07 ± 0.1013
96
94
92
90
88
86
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.89 / 40
p0 −135.7 ± 993.6
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −133.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02006
Std Dev 0.9737
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1249 / 40
p0 624.1 ± 0.7026
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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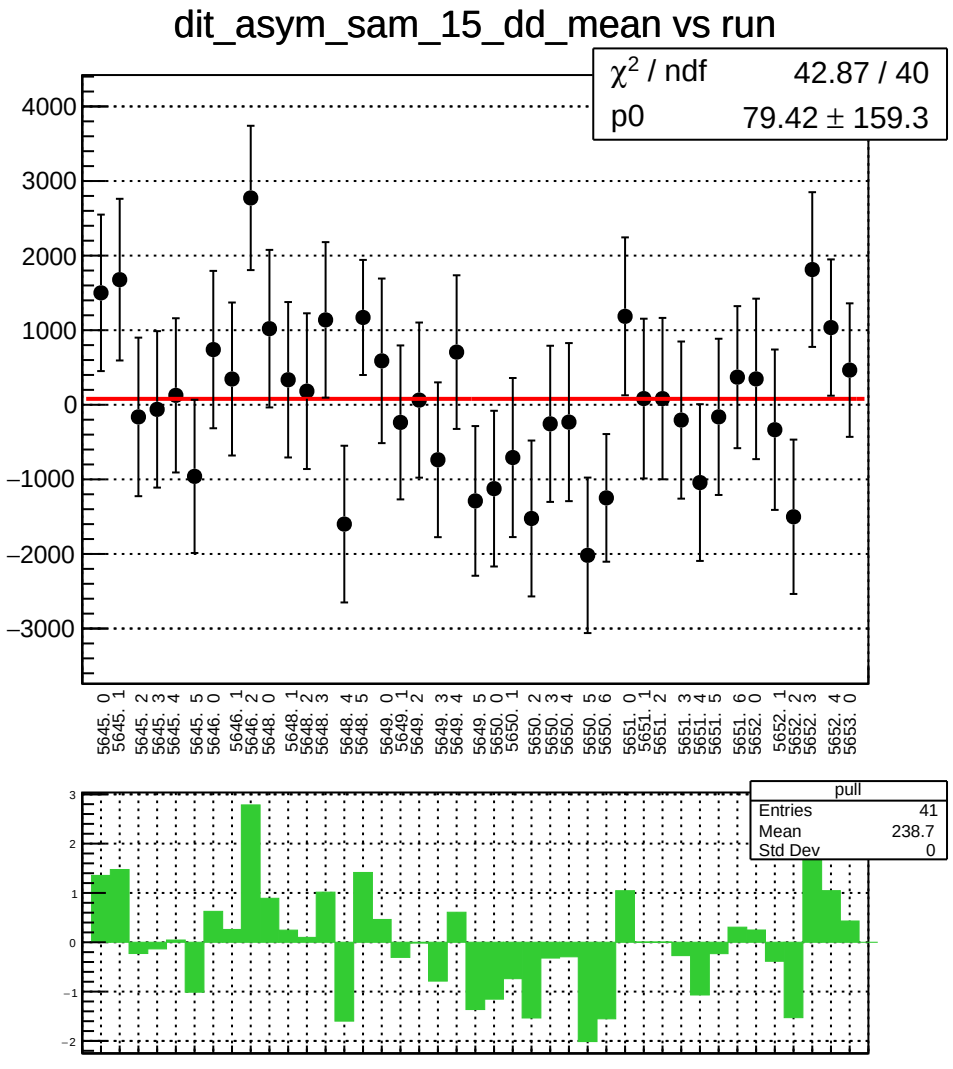
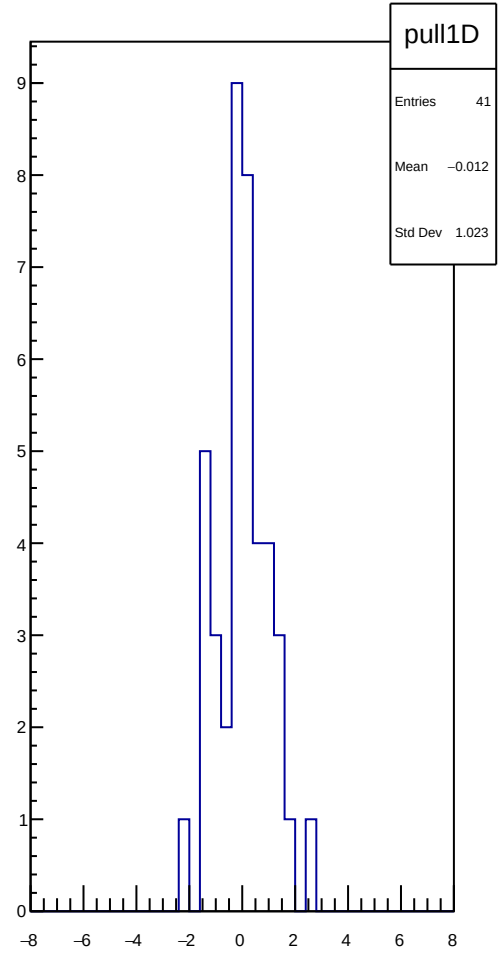
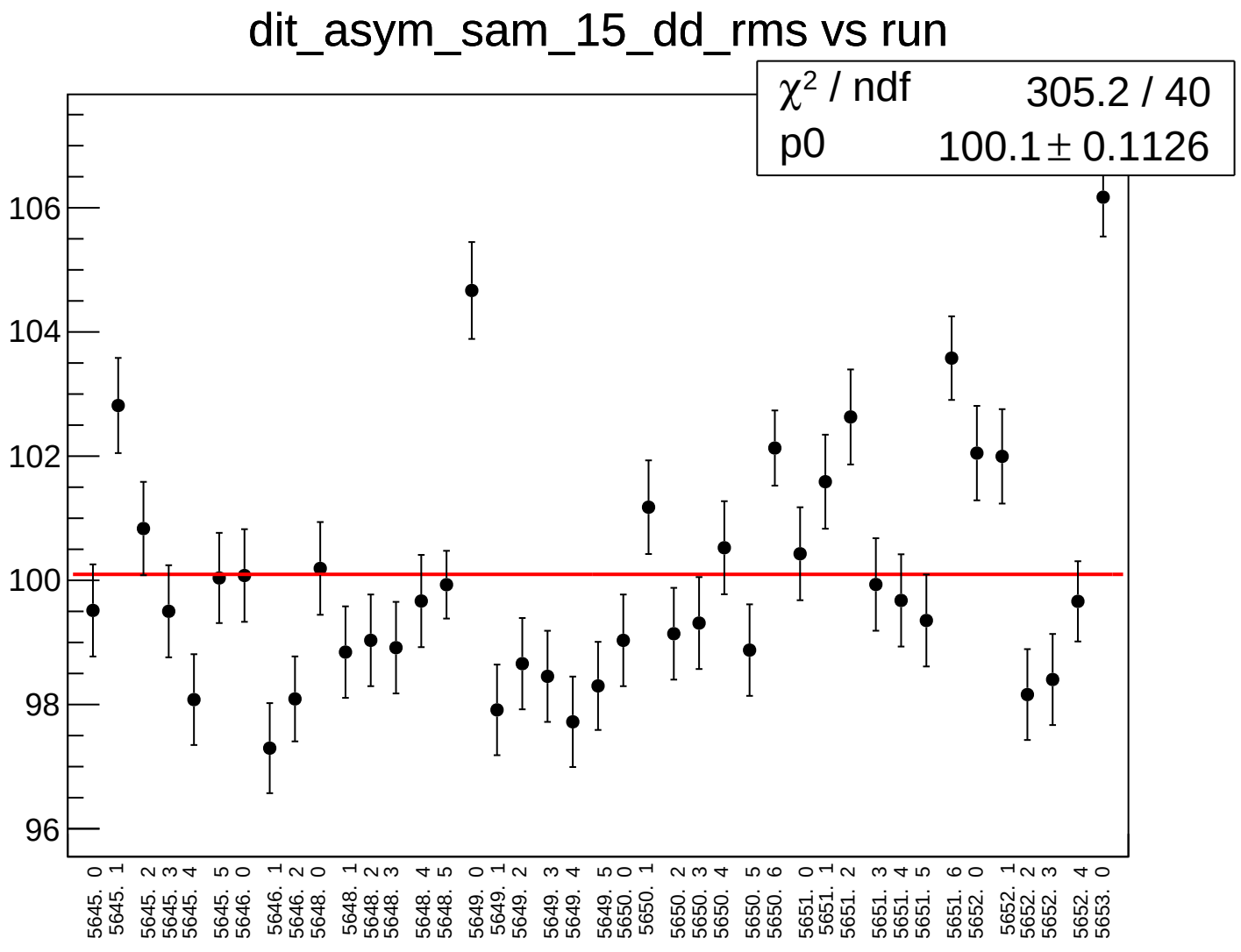
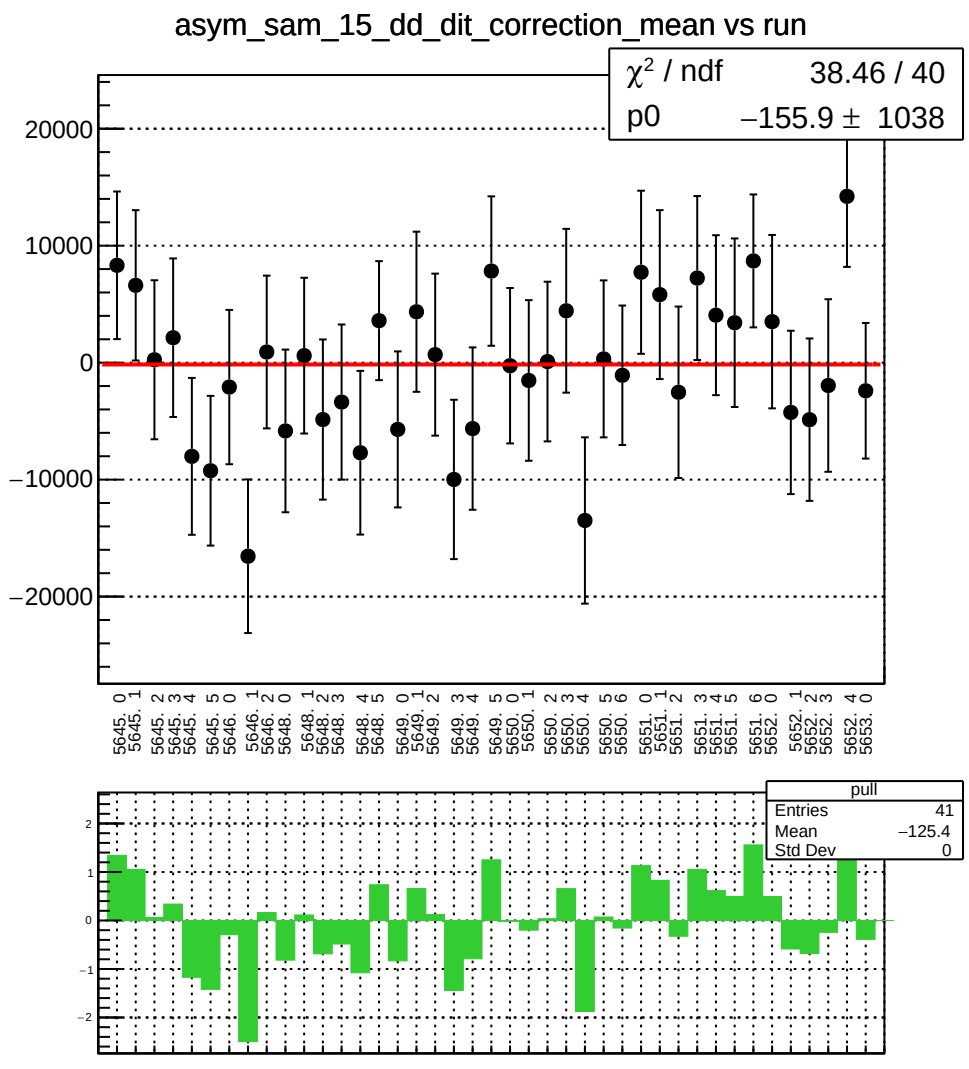
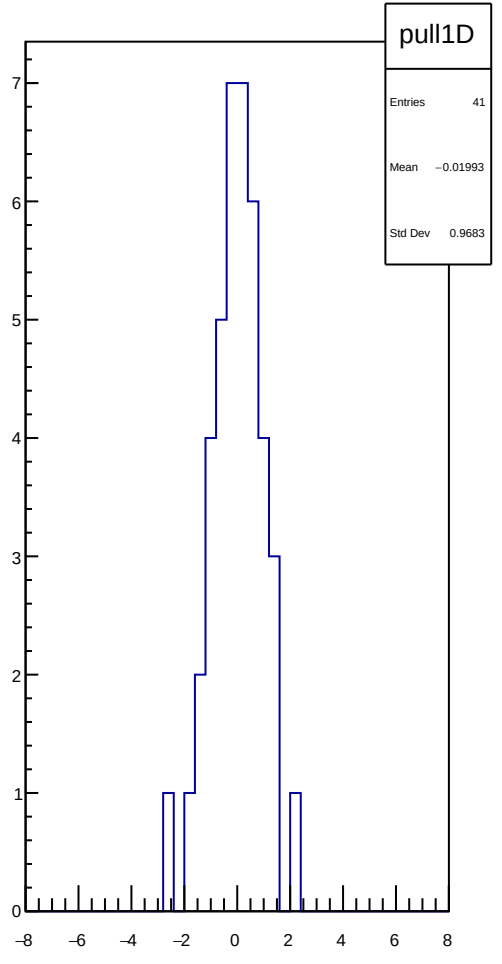
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

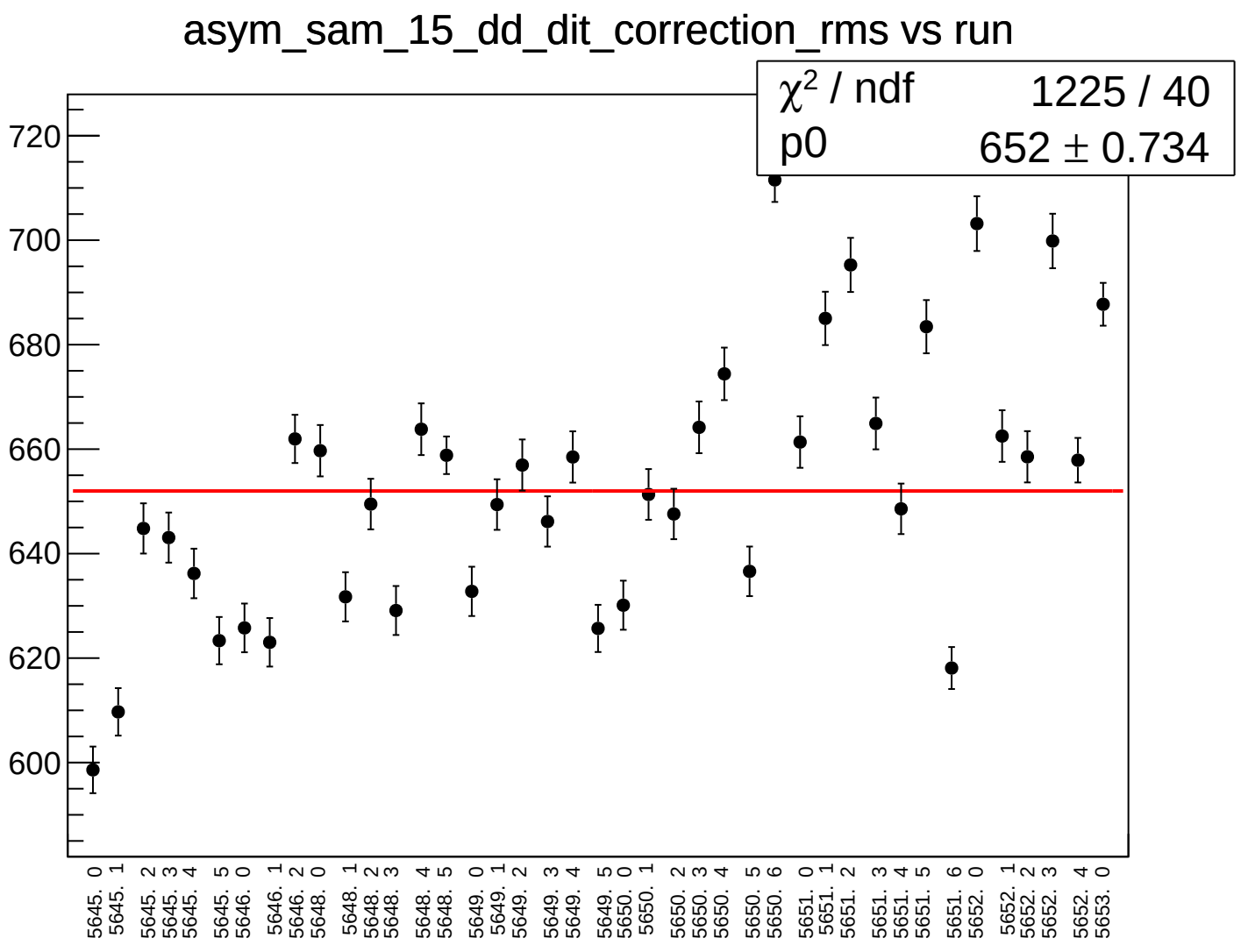

dit_asym_sam_15_dd_mean vs run
χ² / ndf 42.87 / 40
p0 79.42 ± 159.3
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 238.7
Std Dev 0
3
2
1
0
−1
−2

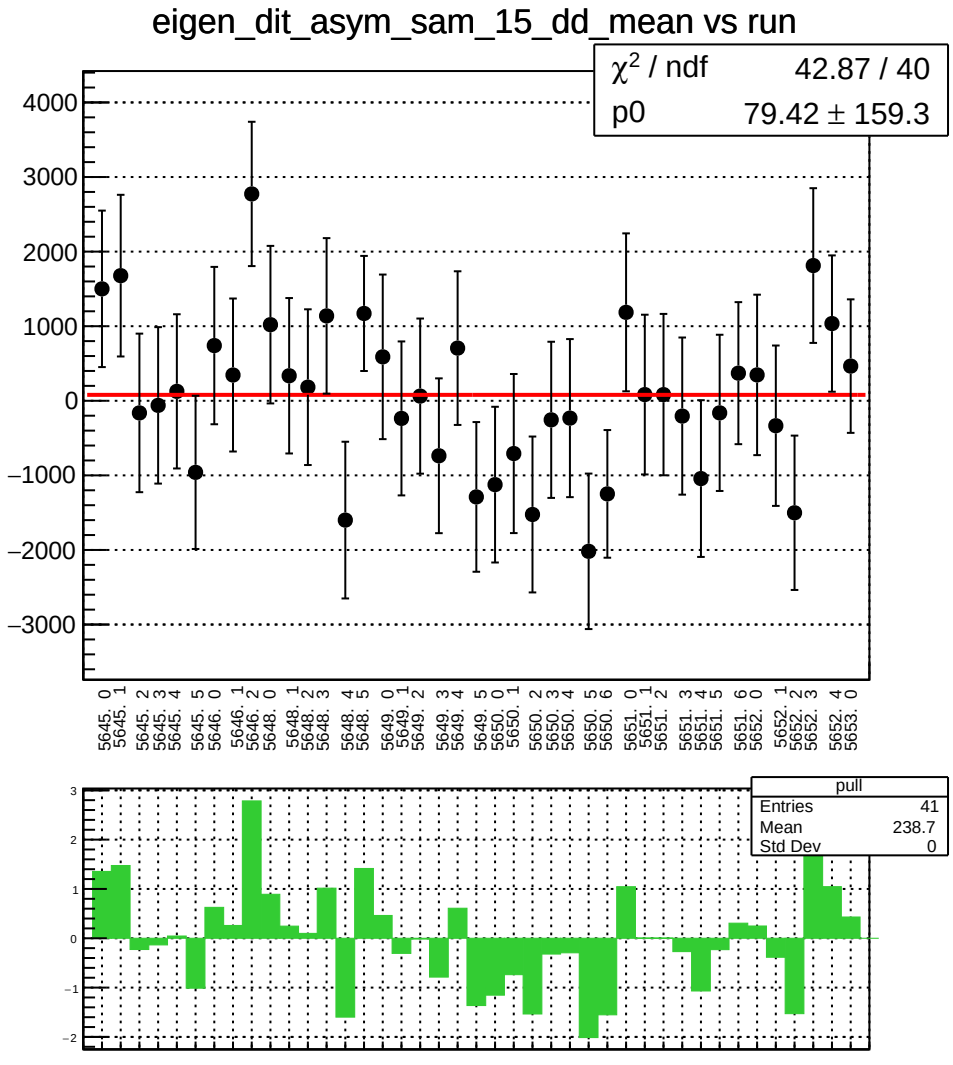

pull1D
Entries 41
Mean −0.012
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

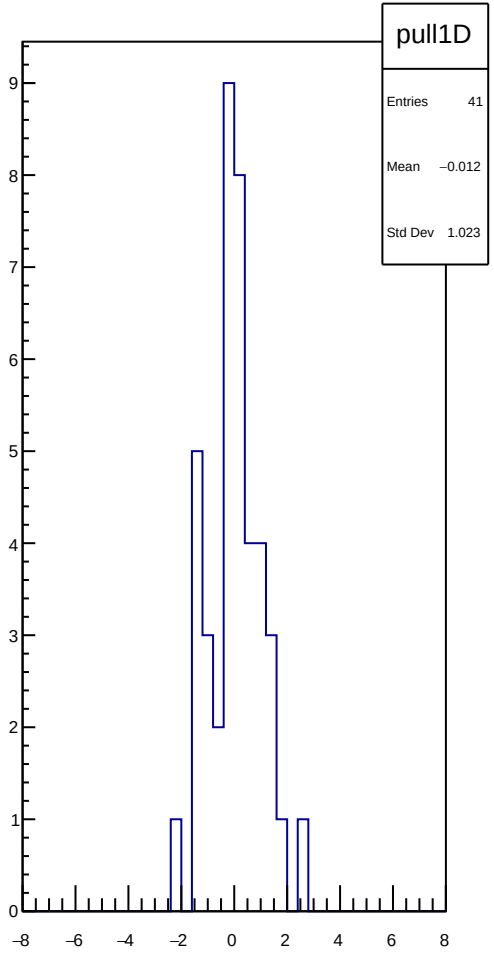

dit_asym_sam_15_dd_rms vs run
χ² / ndf 305.2 / 40
p0 100.1 ± 0.1126
106
104
102
100
98
96
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

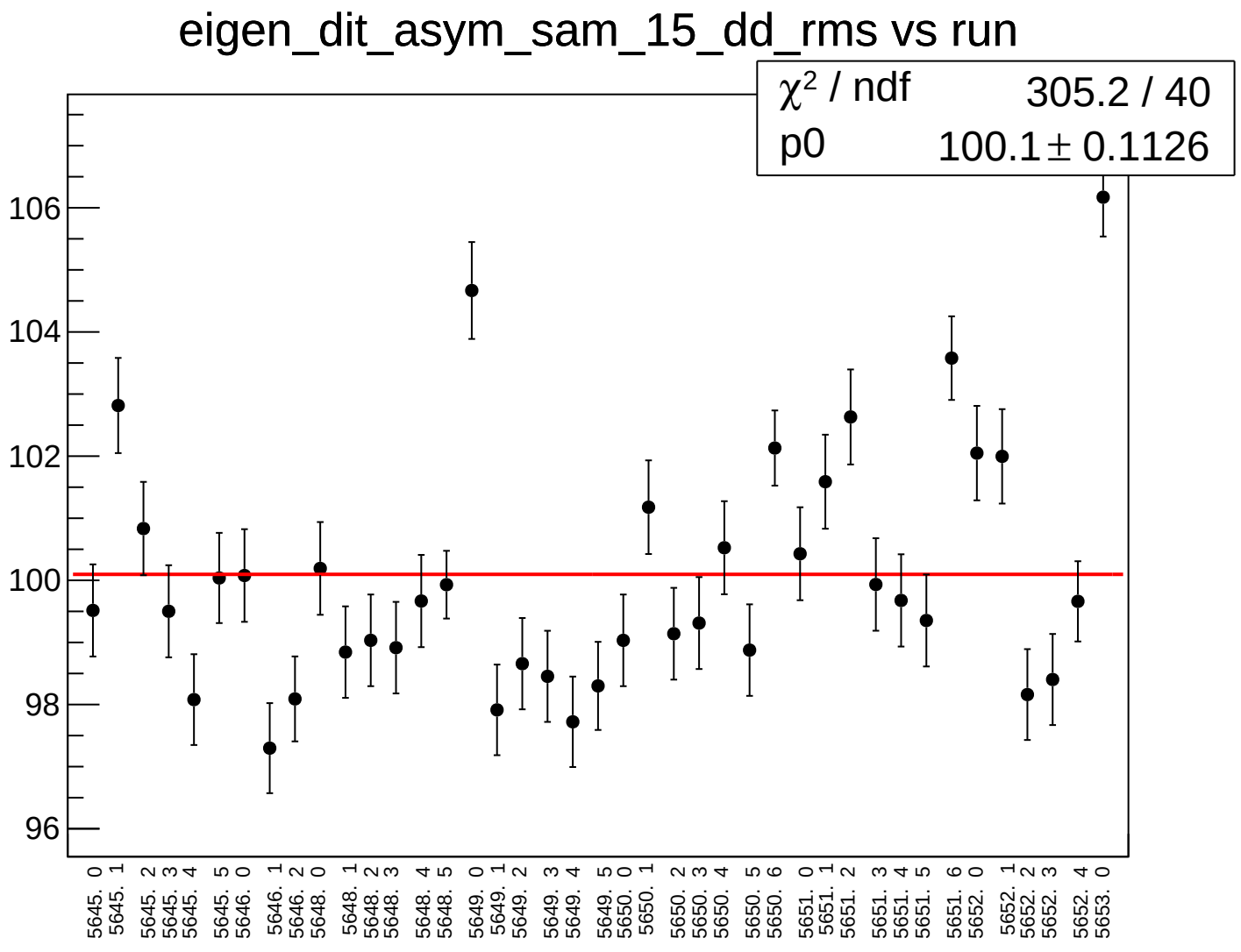

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 38.46 / 40
p0 −155.9 ± 1038
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −125.4
Std Dev 0
2
1
0
−1
−2

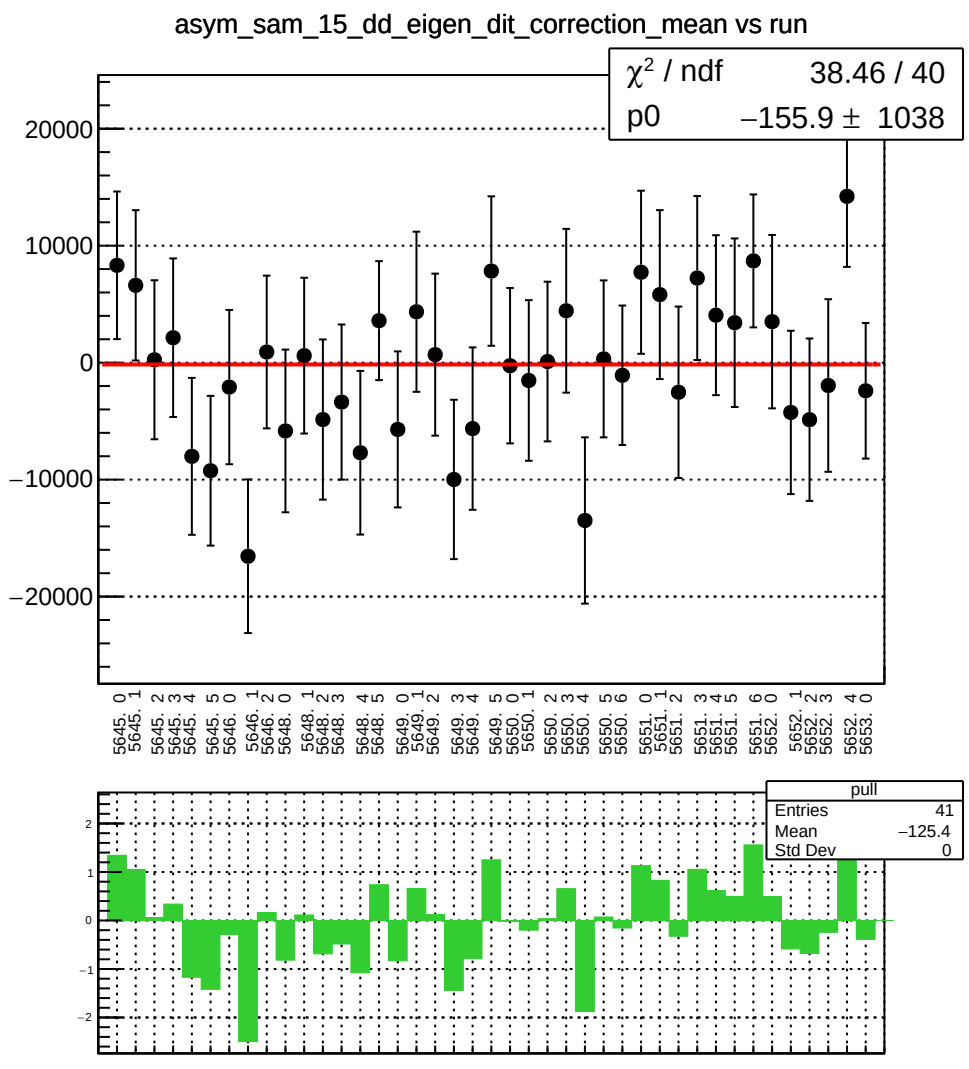

pull1D
Entries 41
Mean −0.01993
Std Dev 0.9683
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

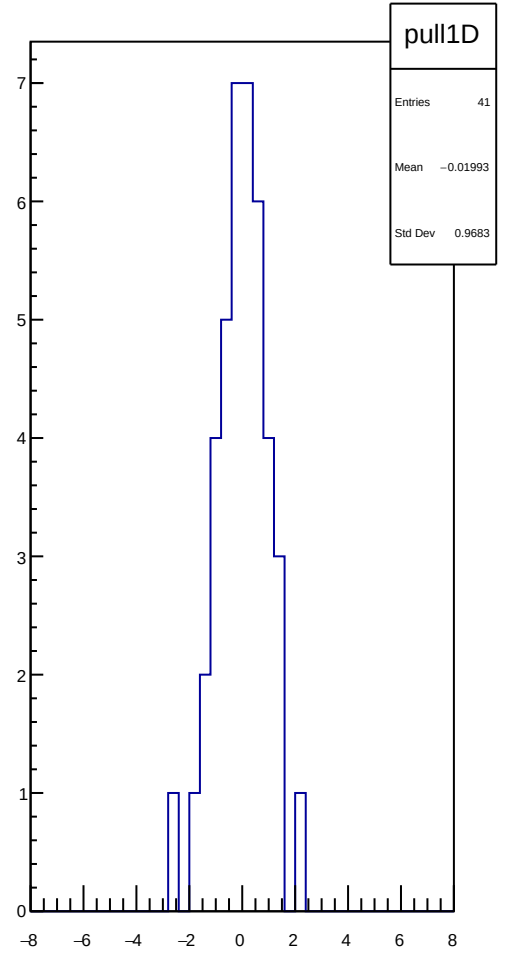

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 1225 / 40
p0 652 ± 0.734
720
700
680
660
640
620
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

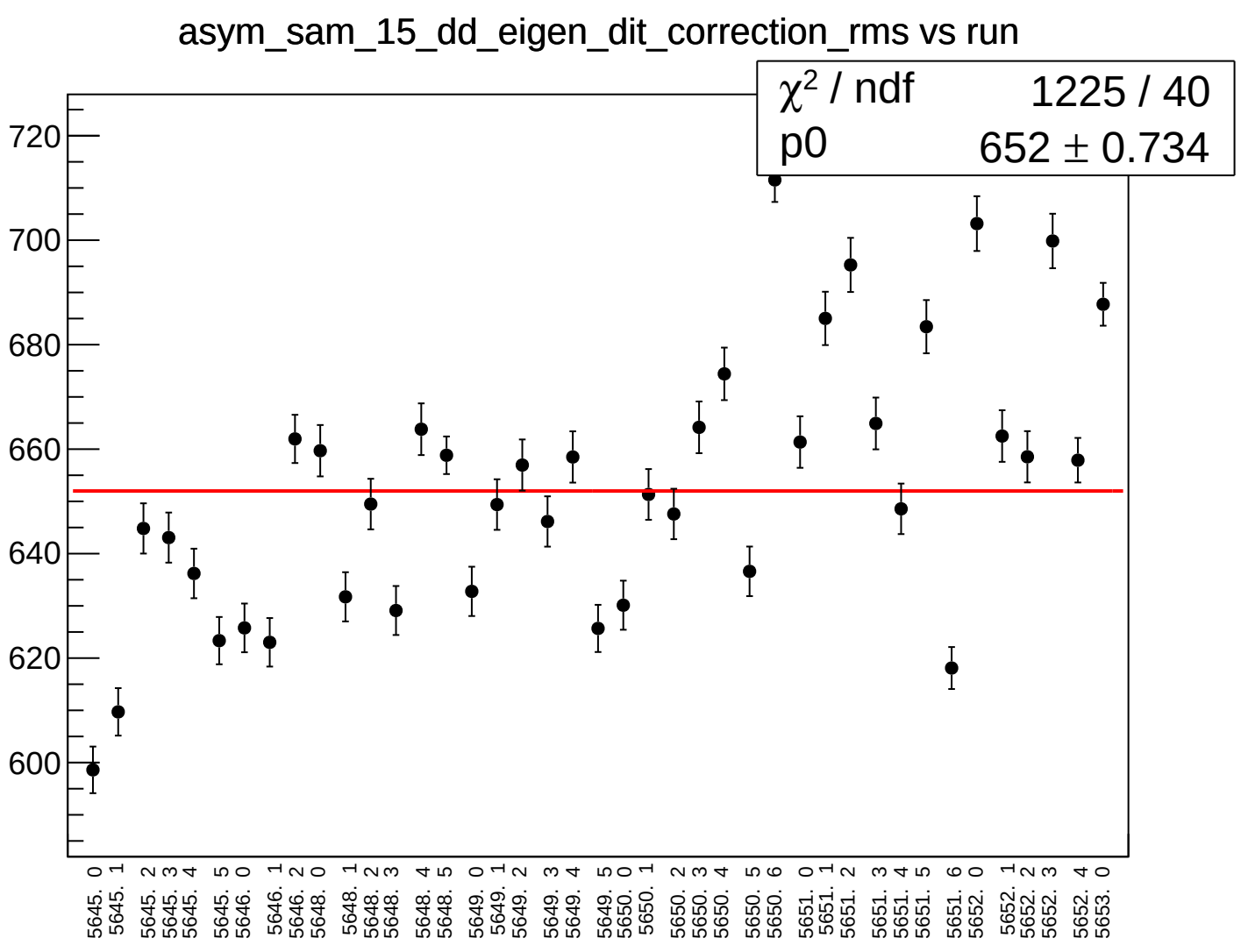

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 42.87 / 40
p0 79.42 ± 159.3
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 238.7
Std Dev 0
3
2
1
0
−1
−2

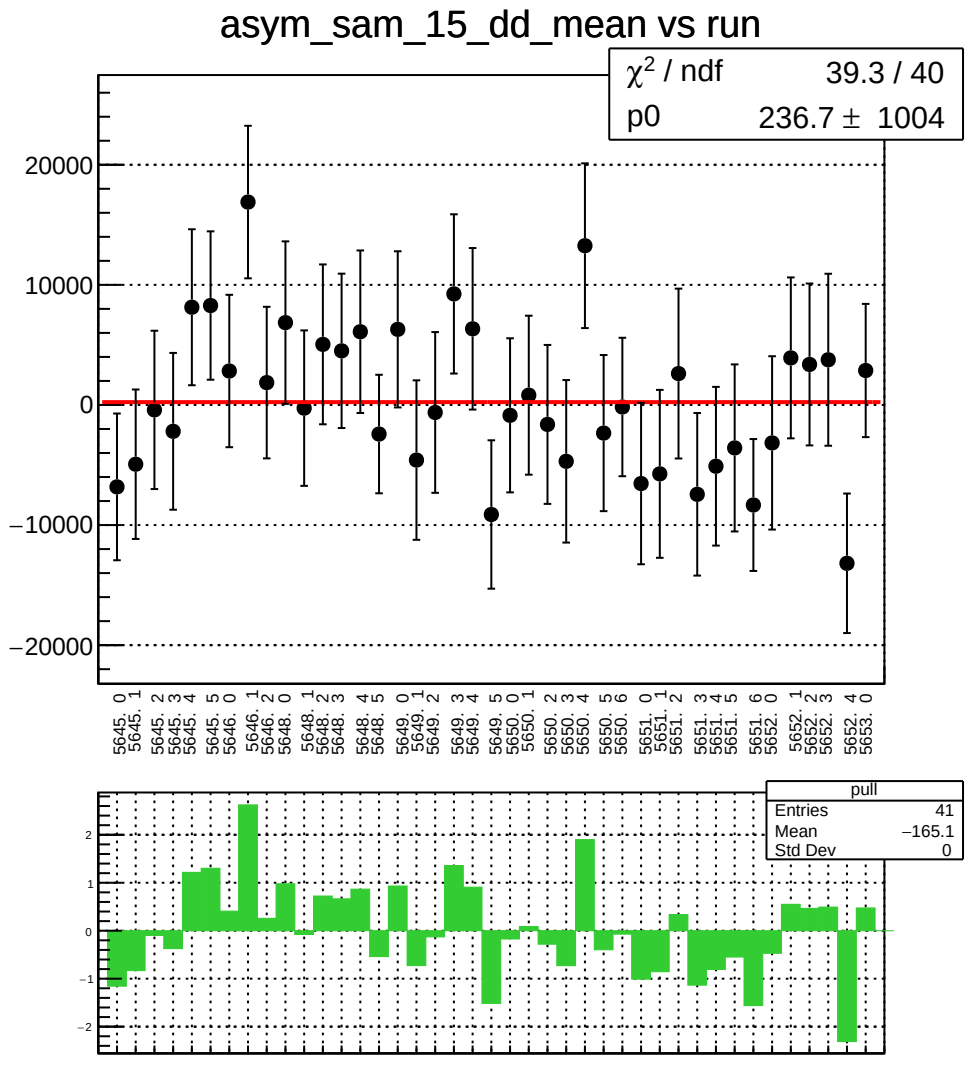

pull1D
Entries 41
Mean −0.012
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

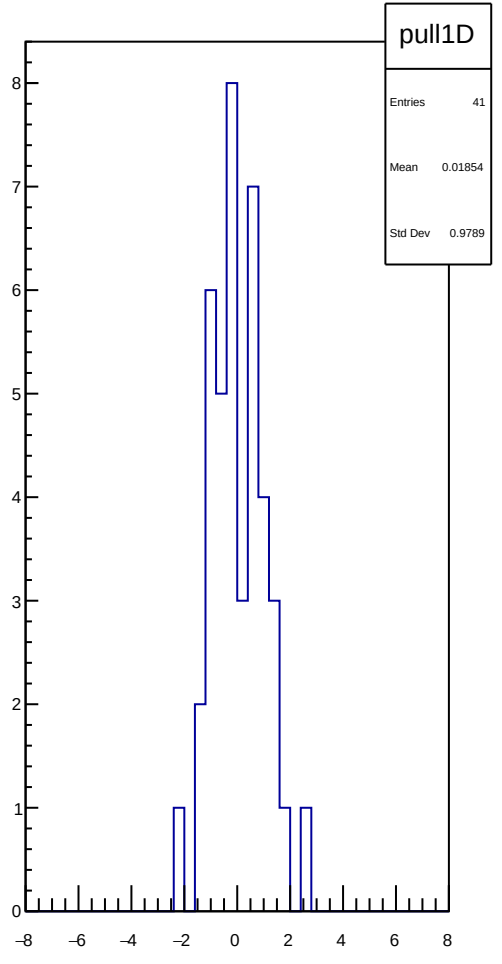

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 305.2 / 40
p0 100.1 ± 0.1126
106
104
102
100
98
96
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

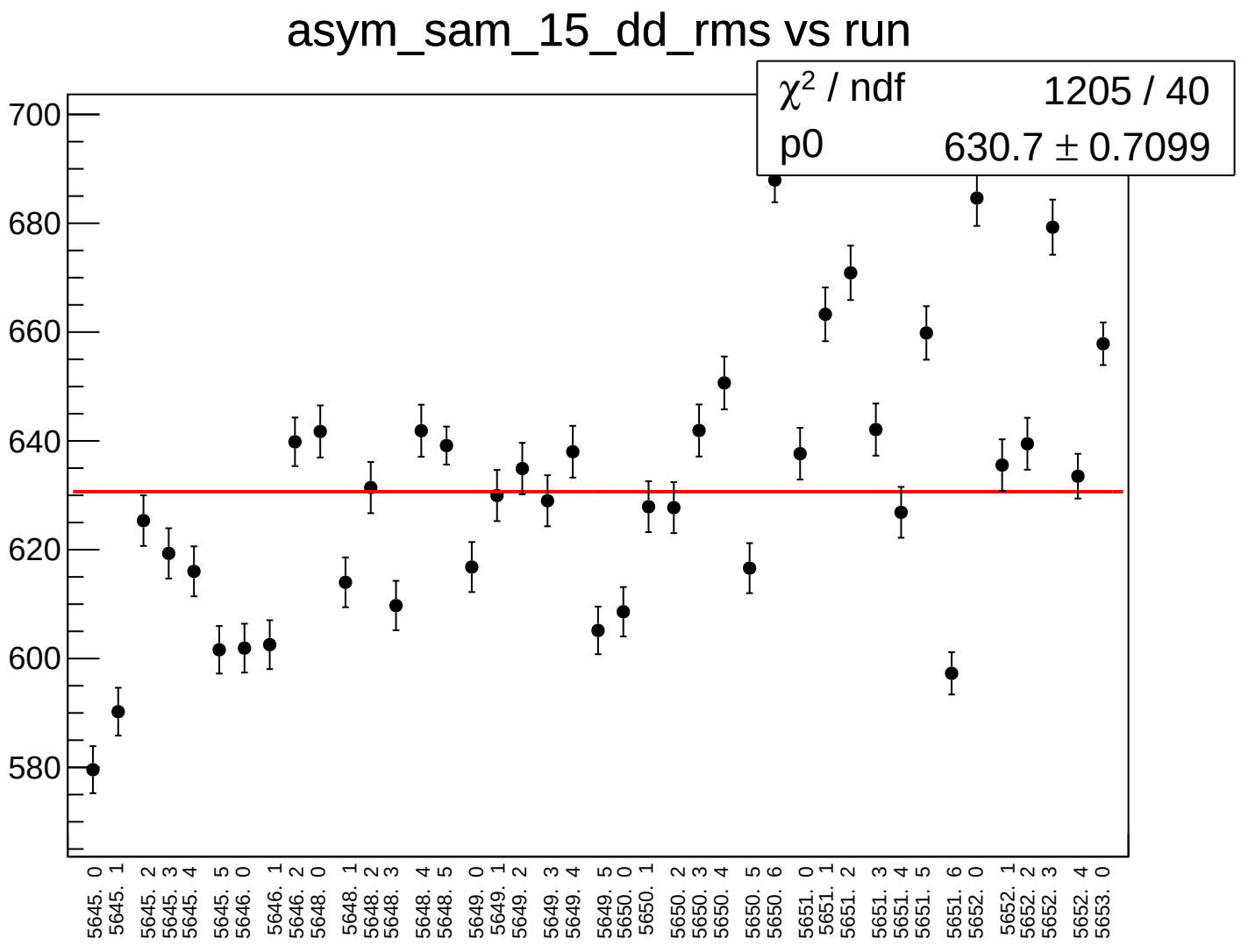

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 38.46 / 40
p0 −155.9 ± 1038
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −125.4
Std Dev 0
2
1
0
−1
−2

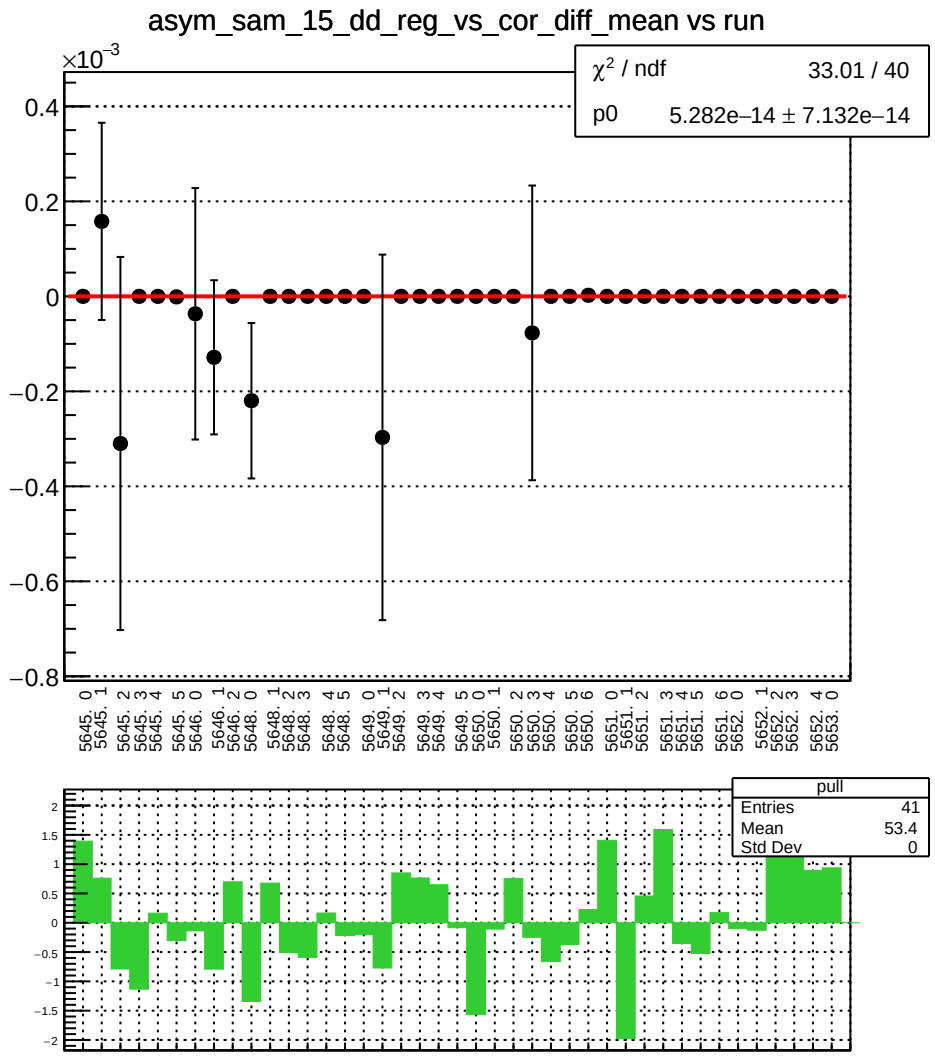

pull1D
Entries 41
Mean −0.01993
Std Dev 0.9683
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

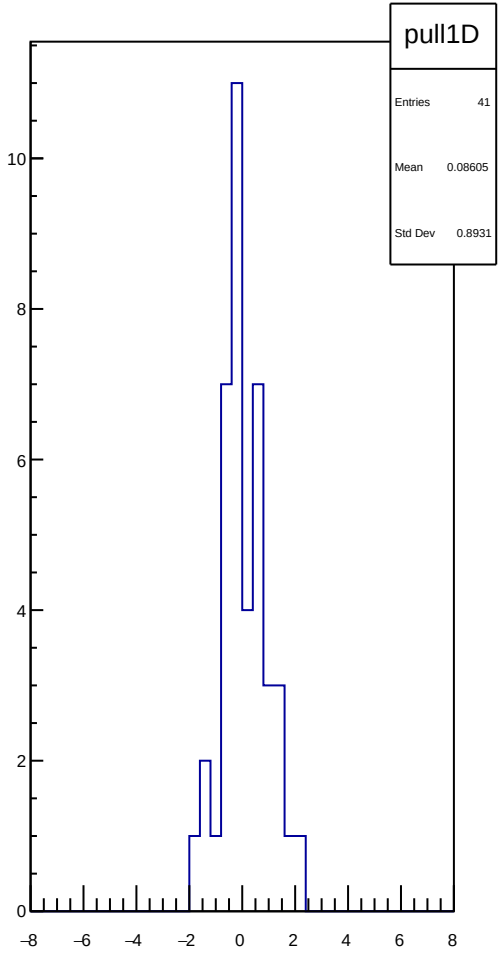

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 1225 / 40
p0 652 ± 0.734
720
700
680
660
640
620
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

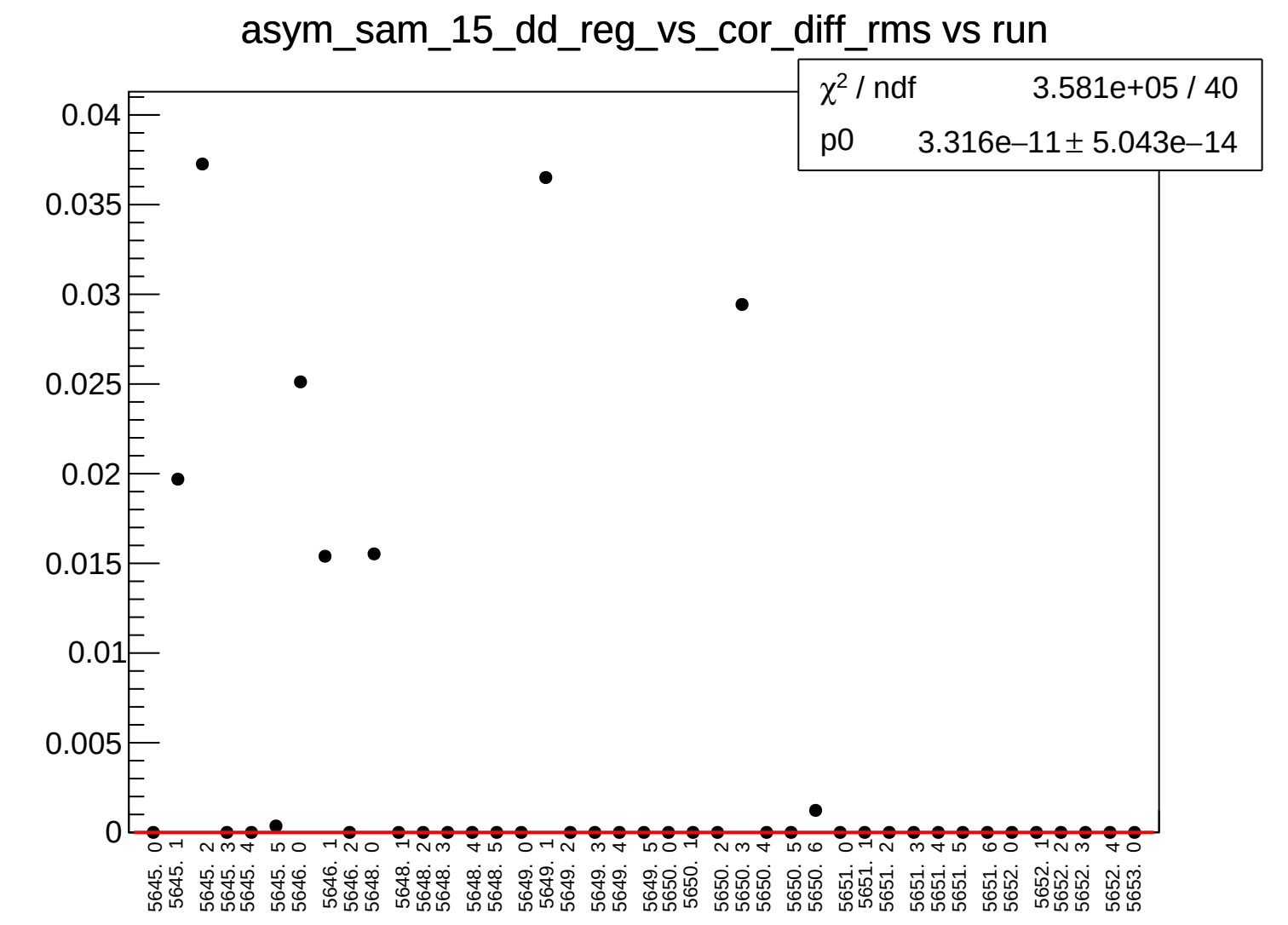

asym_sam_15_dd_mean vs run
χ² / ndf 39.3 / 40
p0 236.7 ± 1004
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −165.1
Std Dev 0
2
1
0
−1
−2

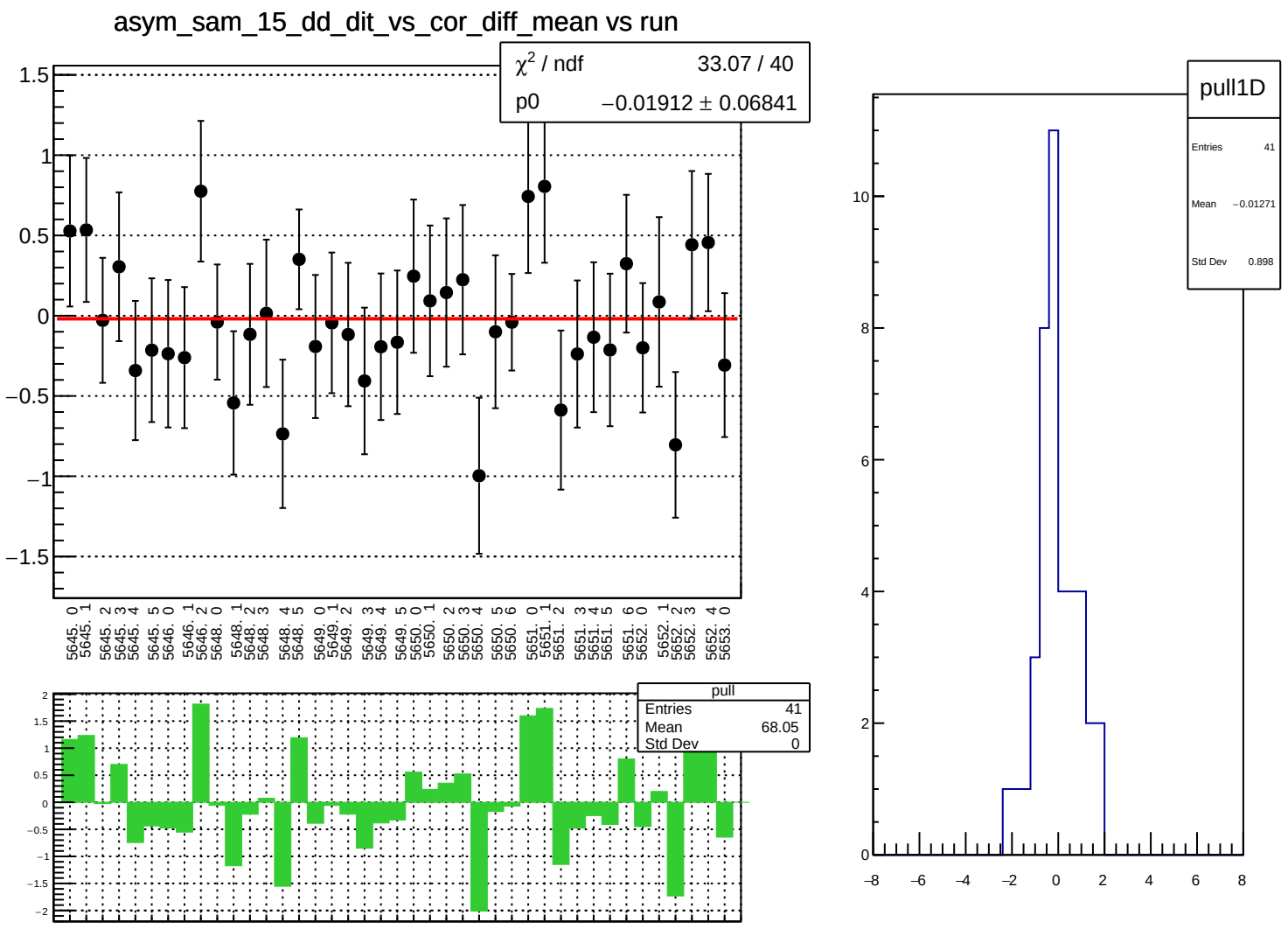

pull1D
Entries 41
Mean 0.01854
Std Dev 0.9789
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

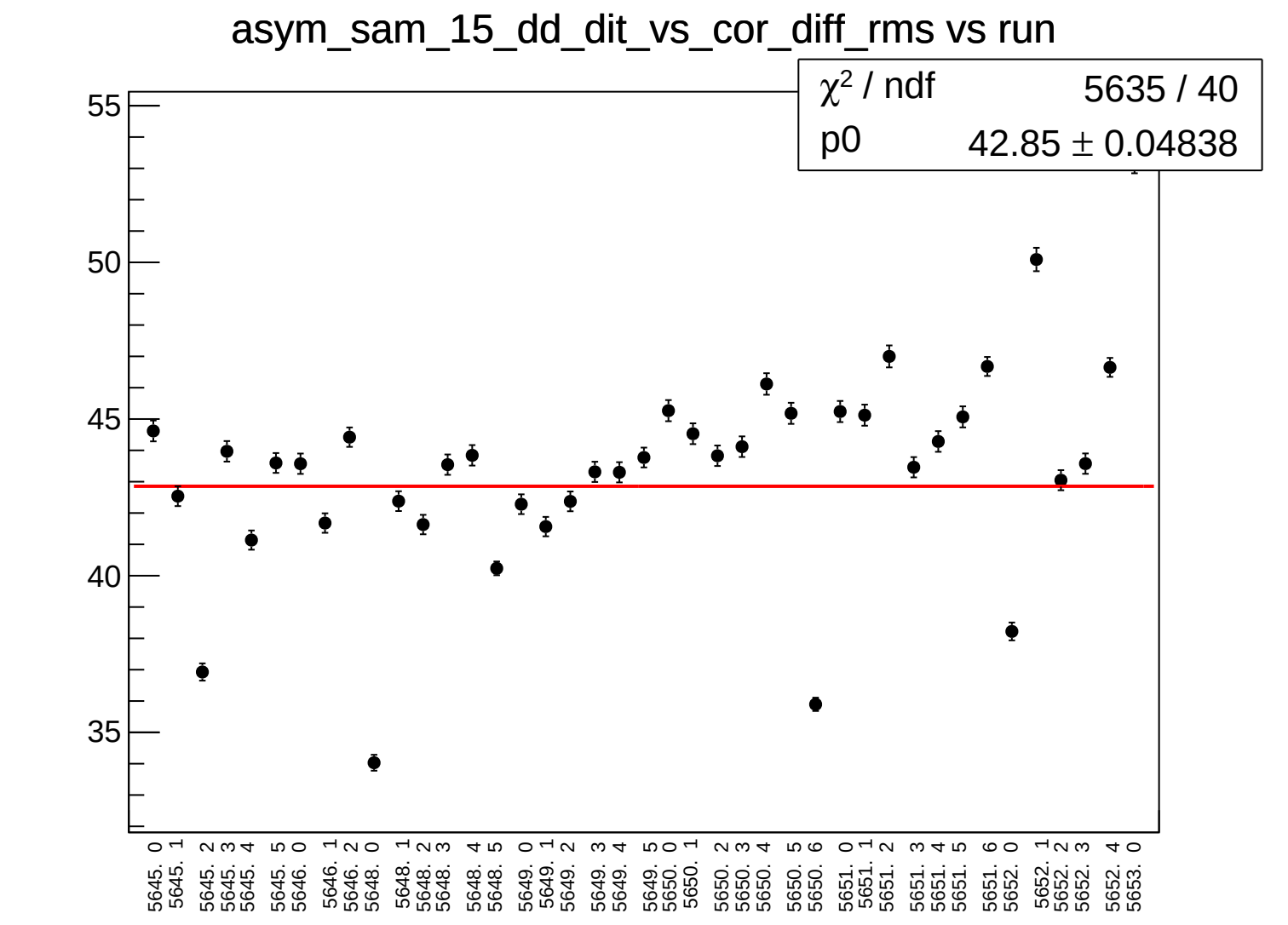

asym_sam_15_dd_rms vs run
χ² / ndf 1205 / 40
p0 630.7 ± 0.7099
700
680
660
640
620
600
580
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

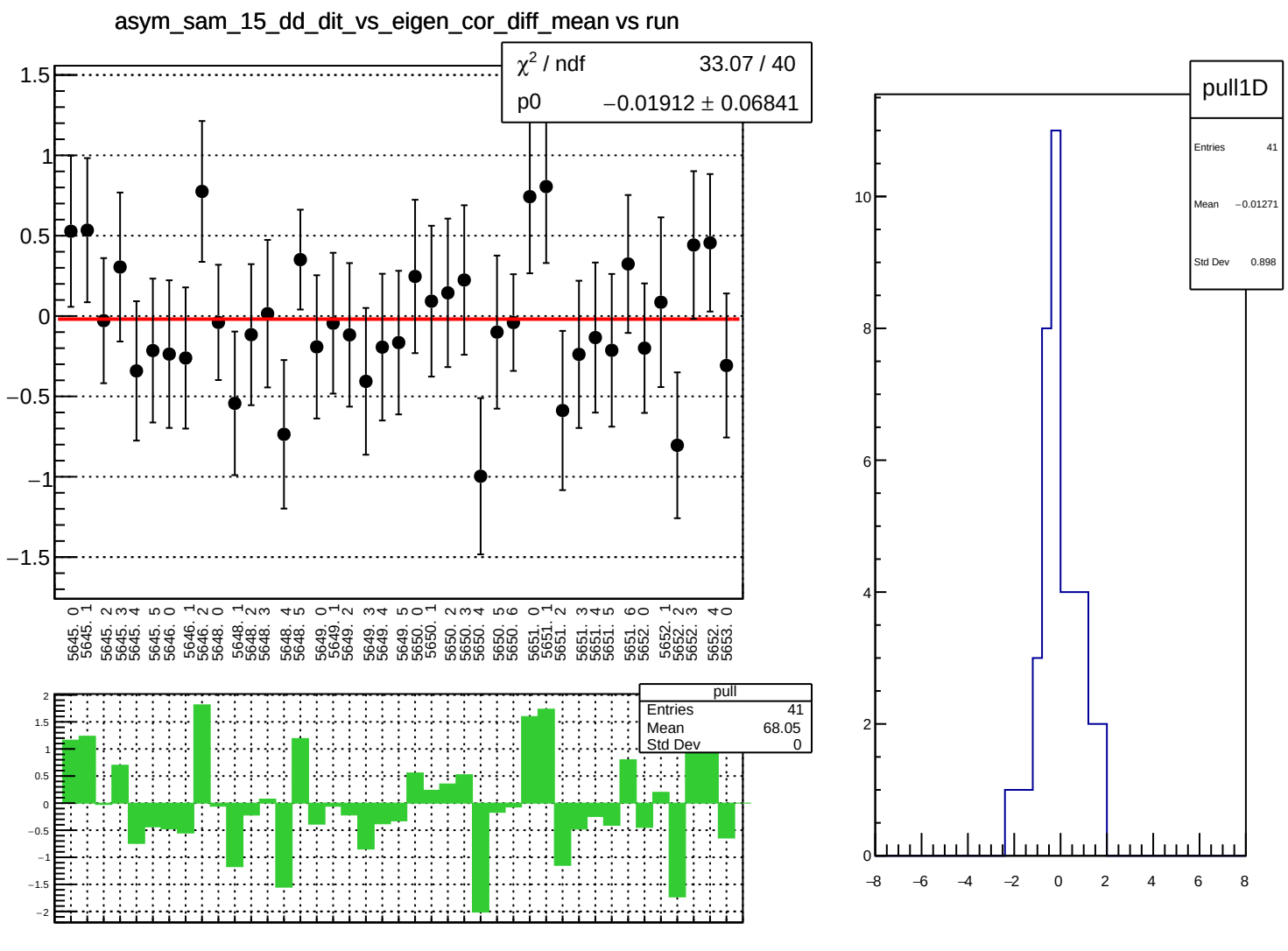

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 33.01 / 40
p0 5.282e−14 ± 7.132e−14
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 53.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

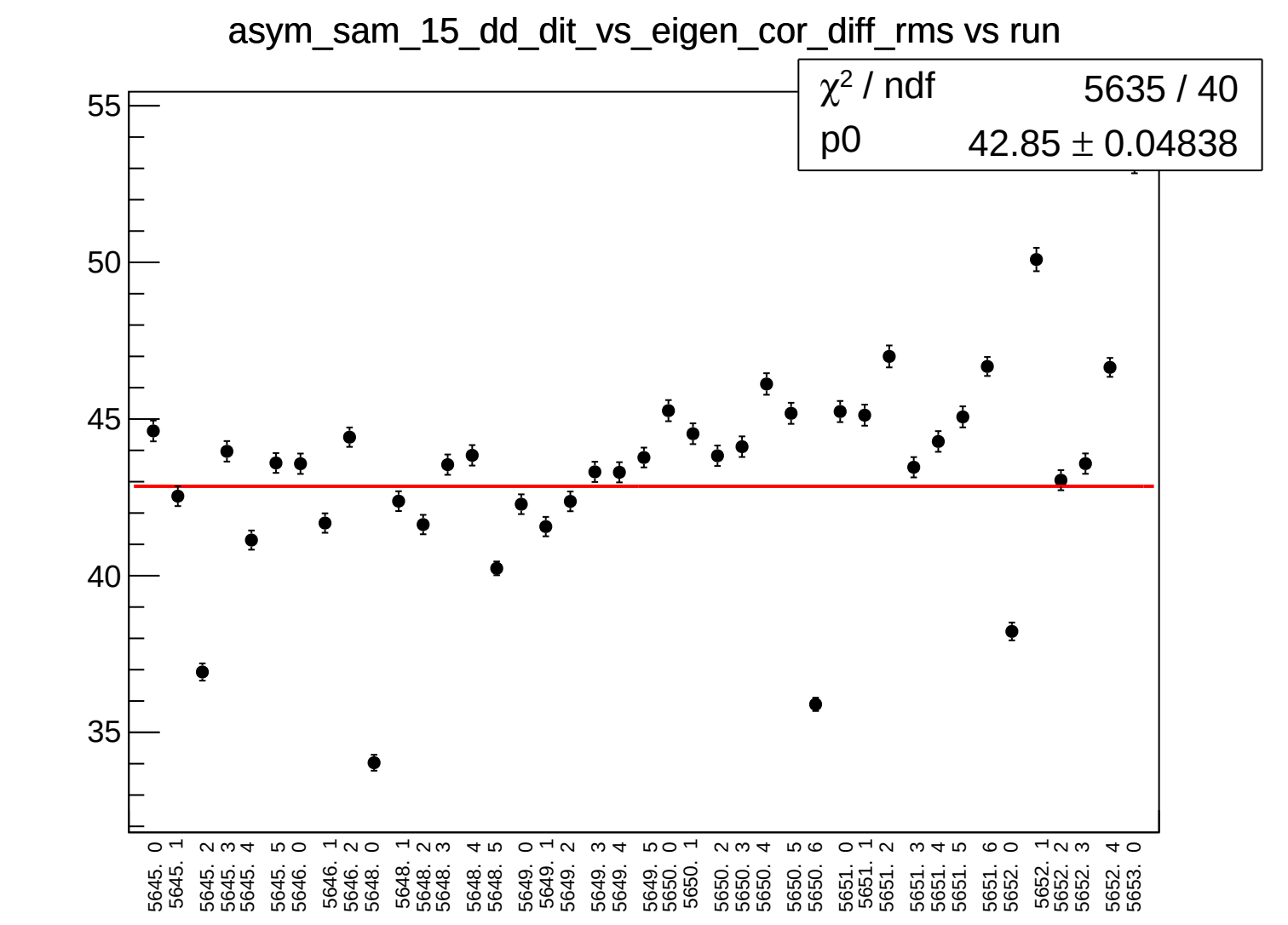

pull1D
Entries 41
Mean 0.08605
Std Dev 0.8931
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

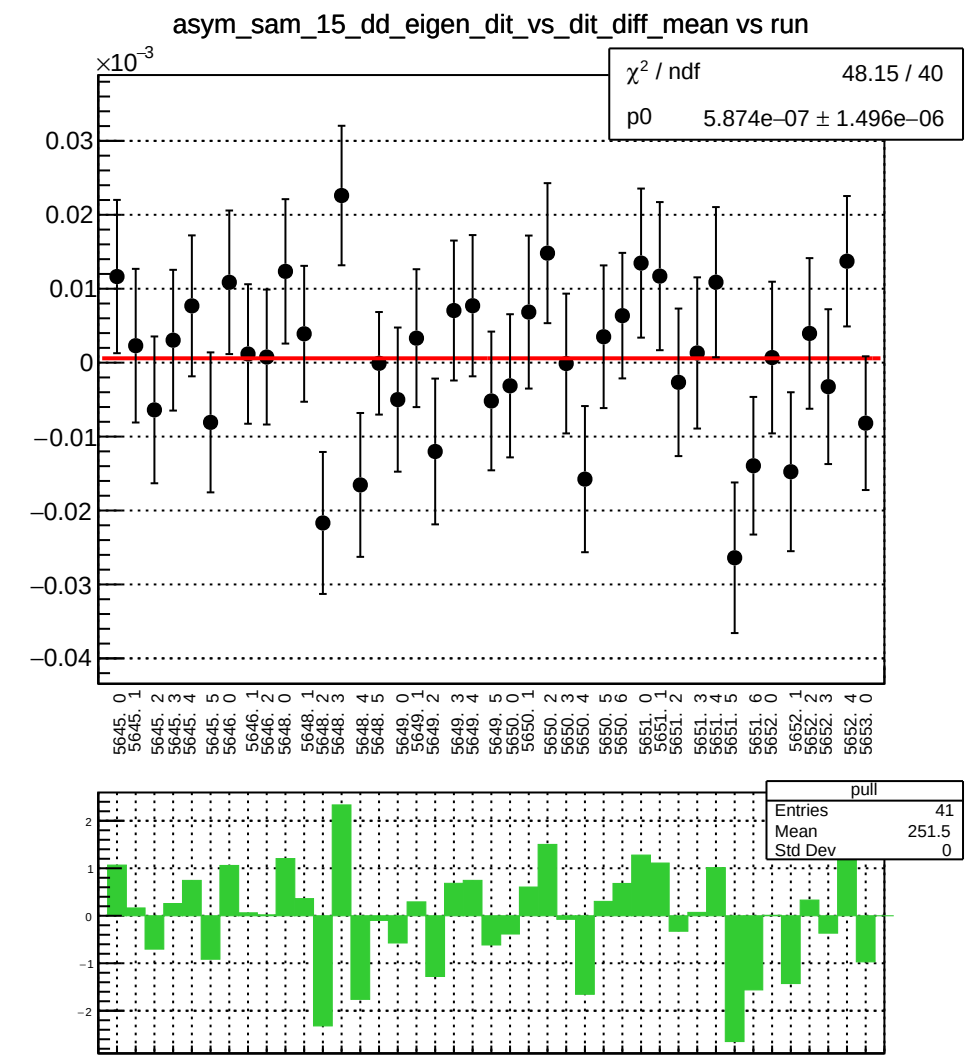

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.581e+05 / 40
p0 3.316e−11 ± 5.043e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

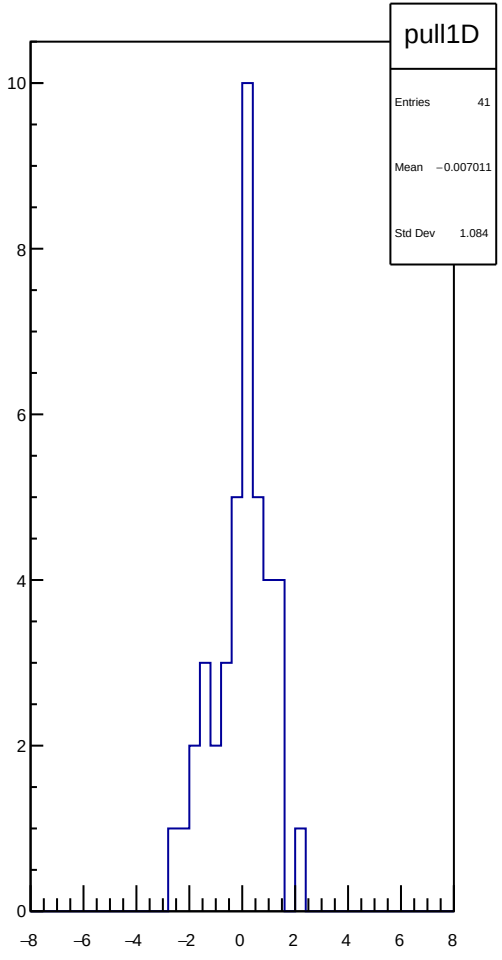

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.07 / 40
p0 −0.01912 ± 0.06841
pull
Entries 41
Mean 68.05
Std Dev 0
pull1D
Entries 41
Mean −0.01271
Std Dev 0.898

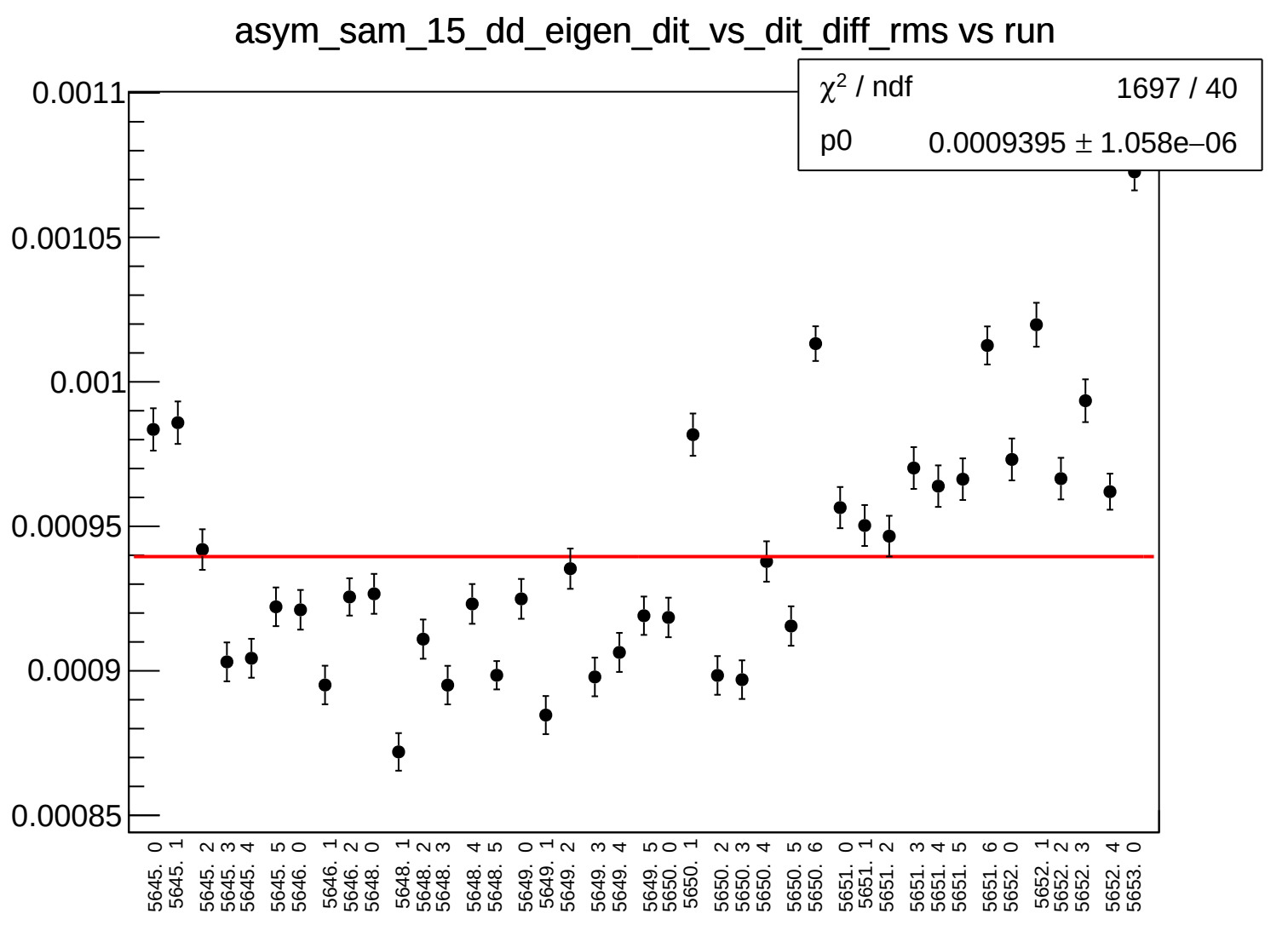

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5635 / 40
p0 42.85 ± 0.04838
55
50
45
40
35
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

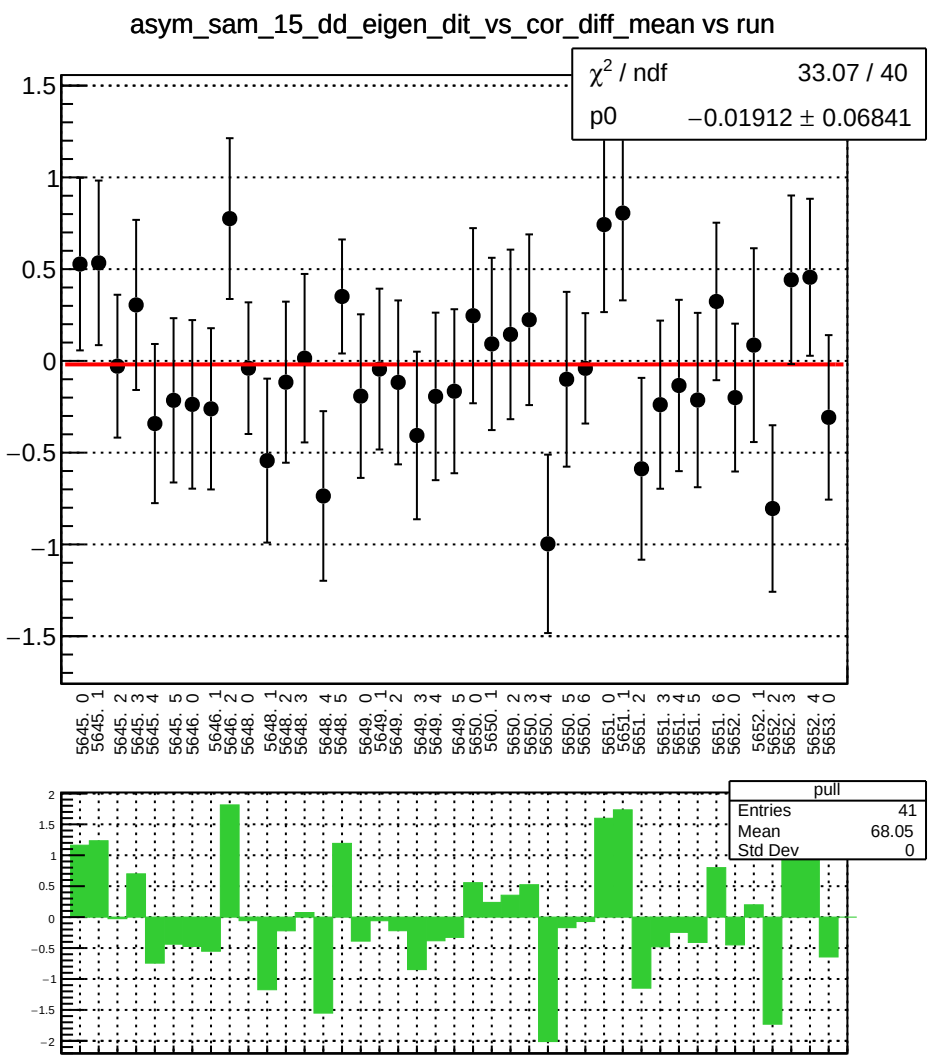

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.07 / 40
p0 −0.01912 ± 0.06841
pull
Entries 41
Mean 68.05
Std Dev 0
pull1D
Entries 41
Mean −0.01271
Std Dev 0.898

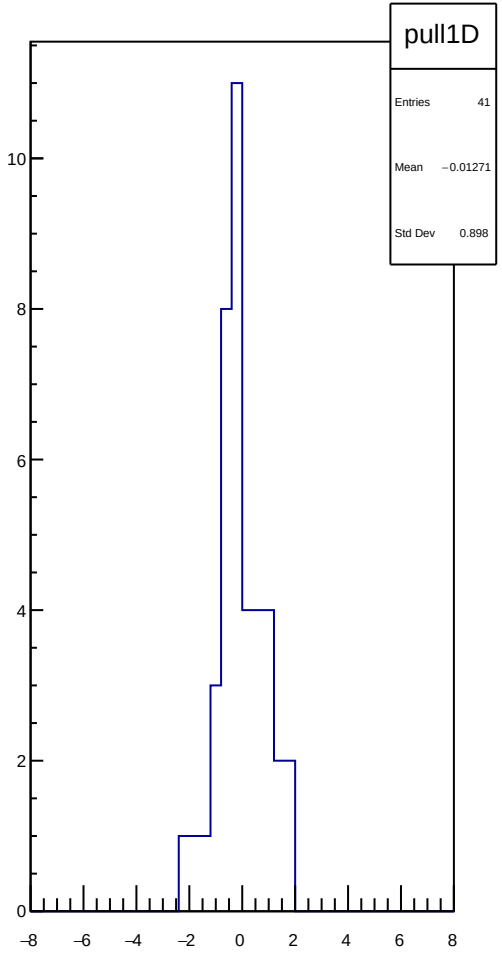

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5635 / 40
p0 42.85 ± 0.04838
55
50
45
40
35
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

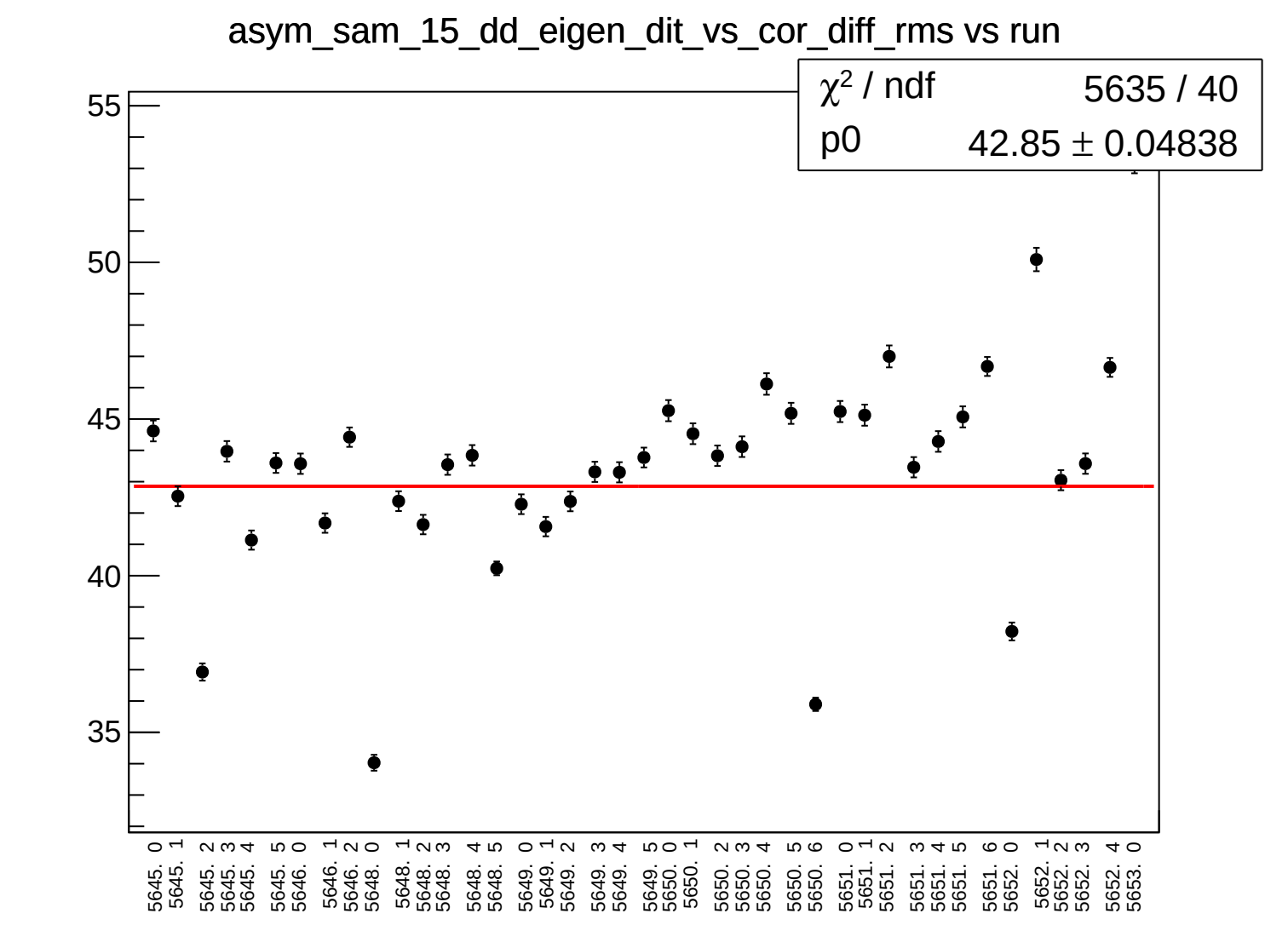

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.15 / 40
p0 5.874e−07 ± 1.496e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 251.5
Std Dev 0
2
1
0
−1
−2

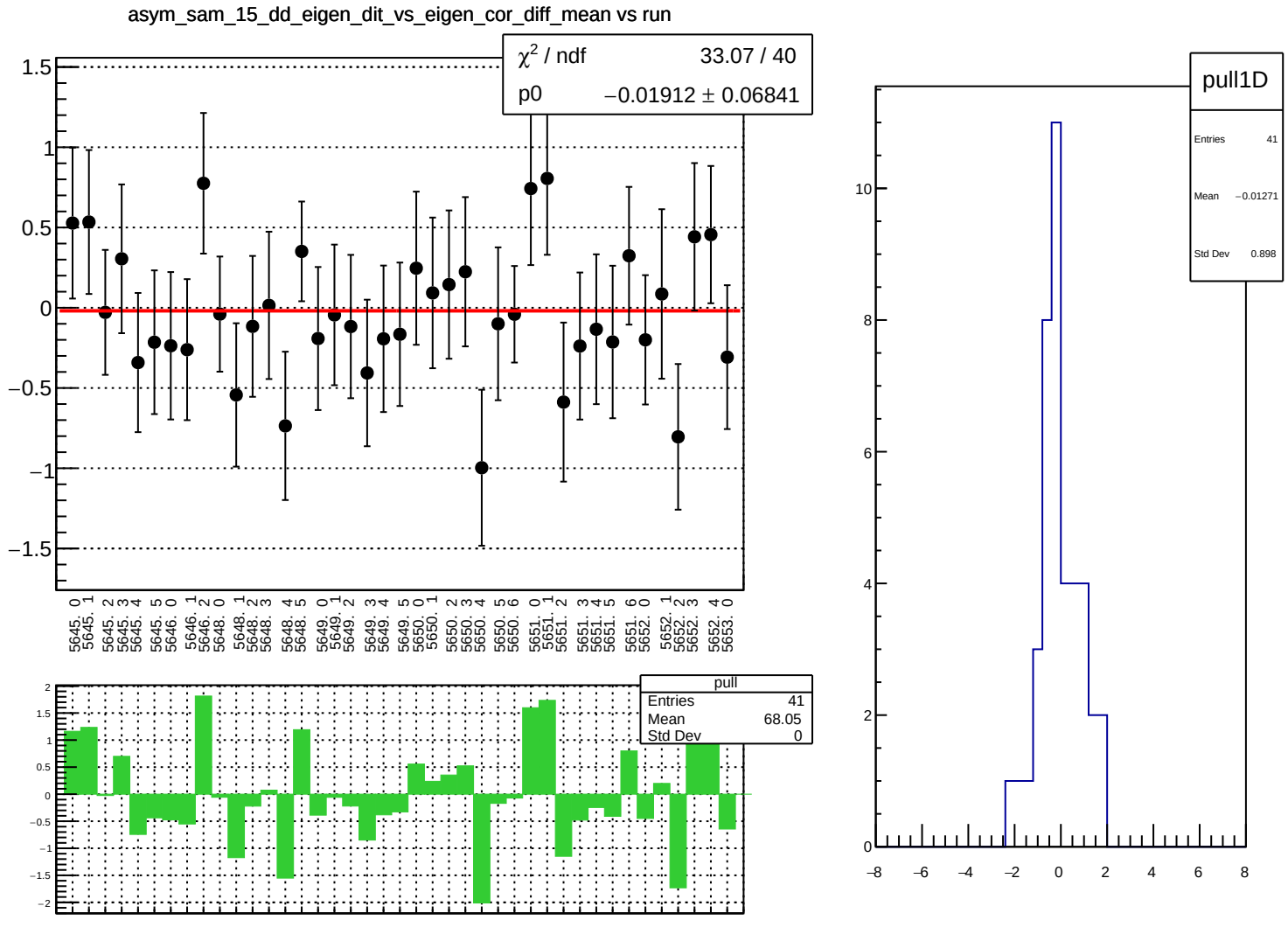

pull1D
Entries 41
Mean −0.007011
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

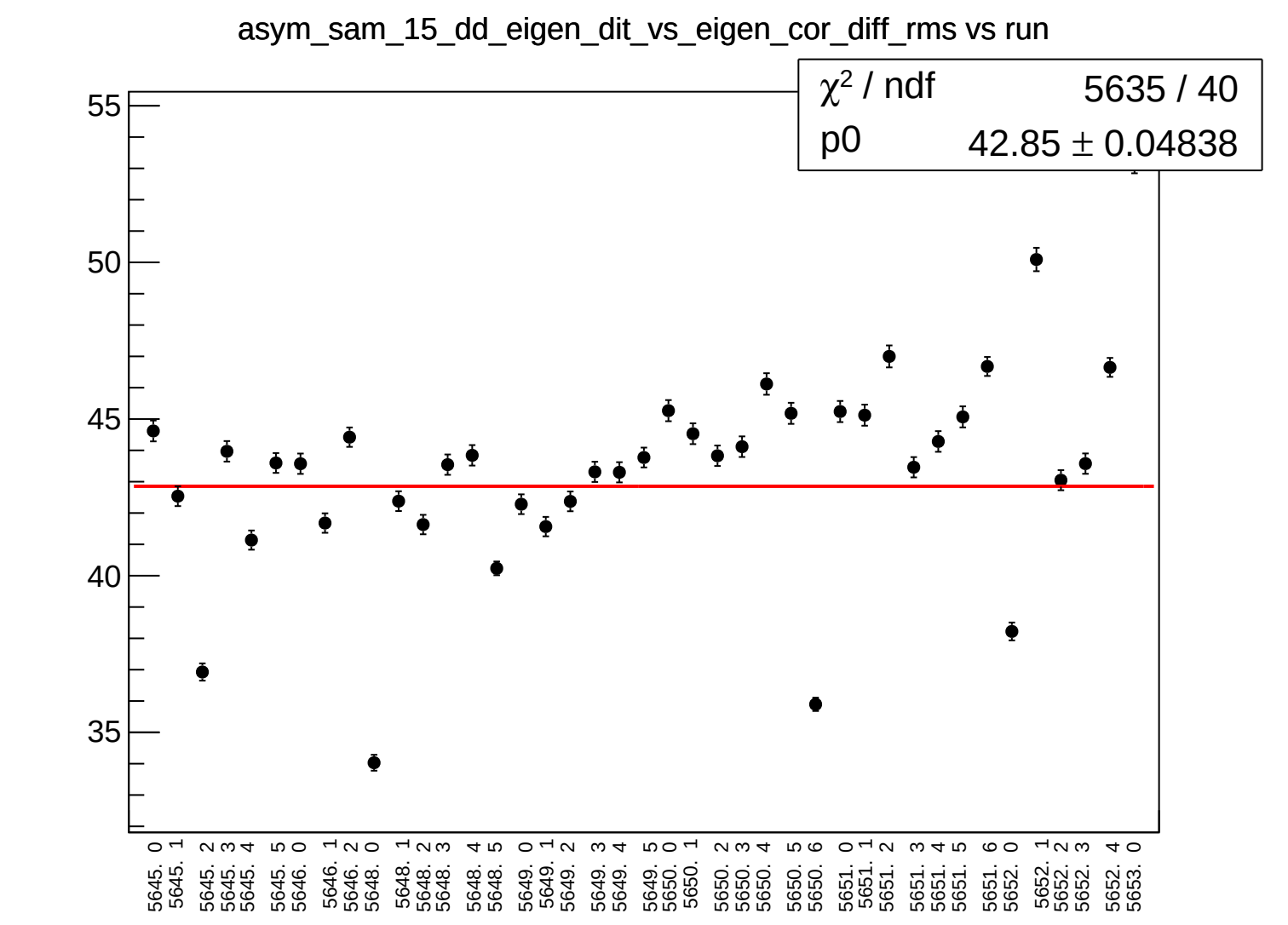

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1697 / 40
p0 0.0009395 ± 1.058e−06
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

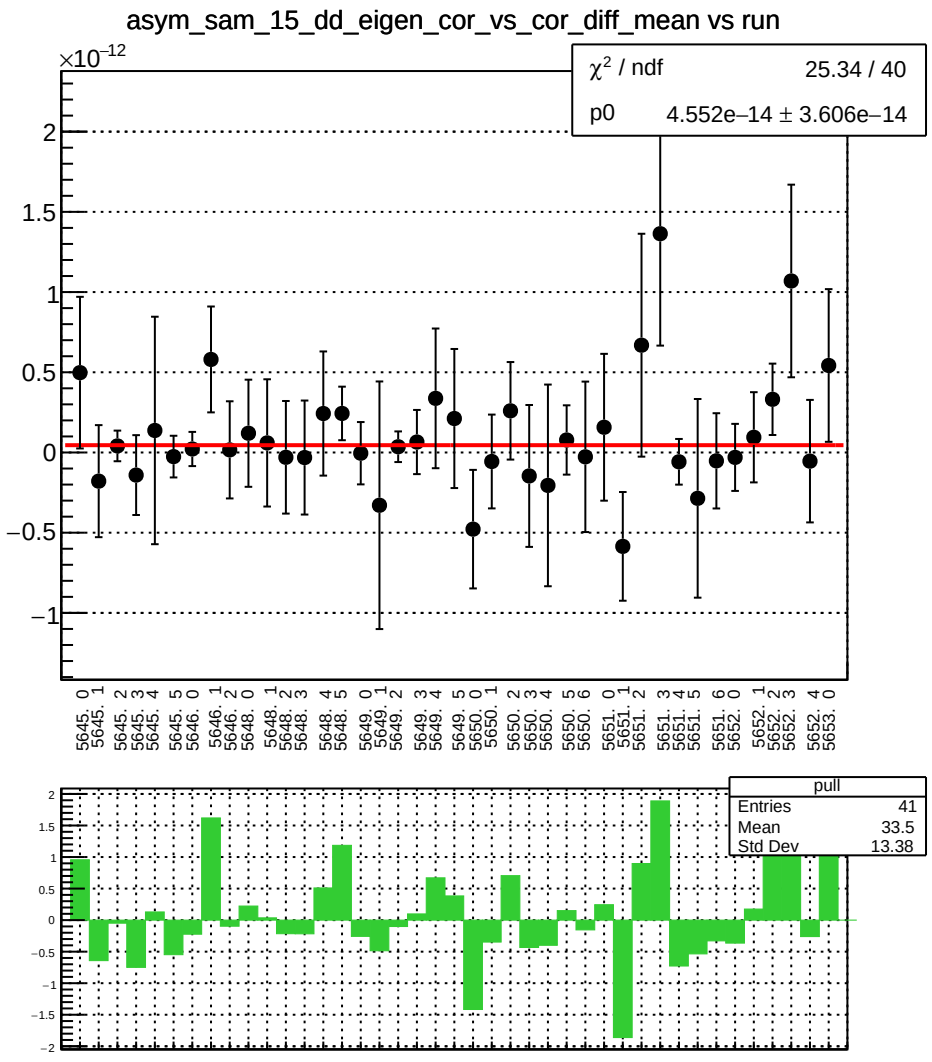

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.07 / 40
p0 −0.01912 ± 0.06841
pull
Entries 41
Mean 68.05
Std Dev 0

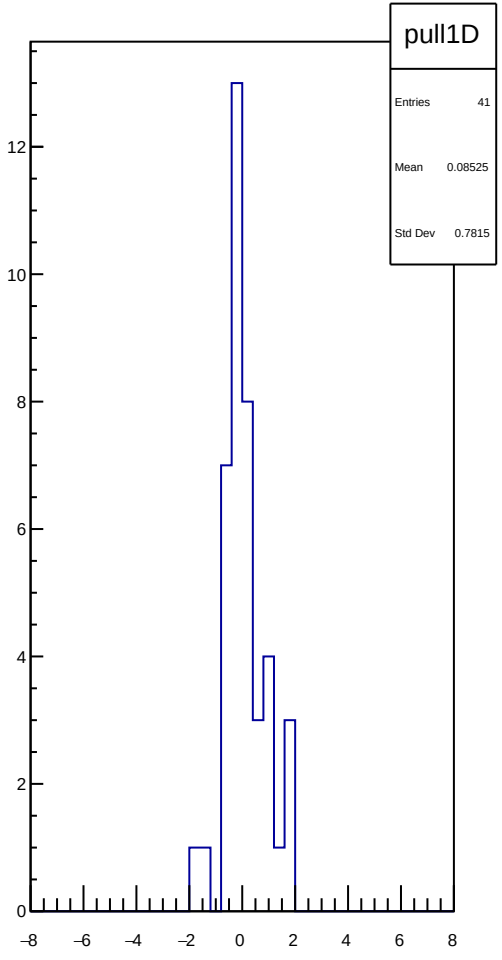

pull1D
Entries 41
Mean −0.01271
Std Dev 0.898

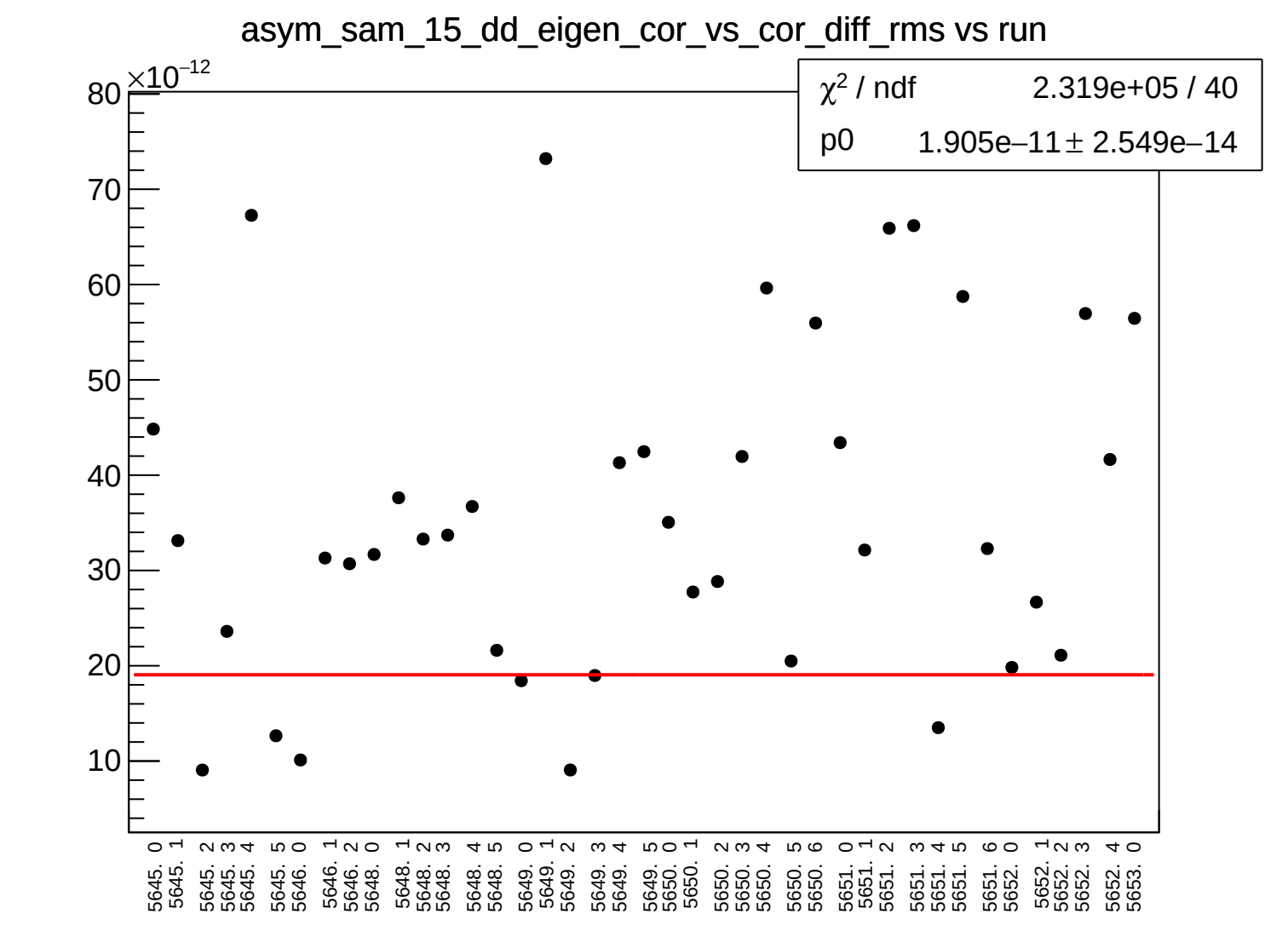

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5635 / 40
p0 42.85 ± 0.04838
55
50
45
40
35
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

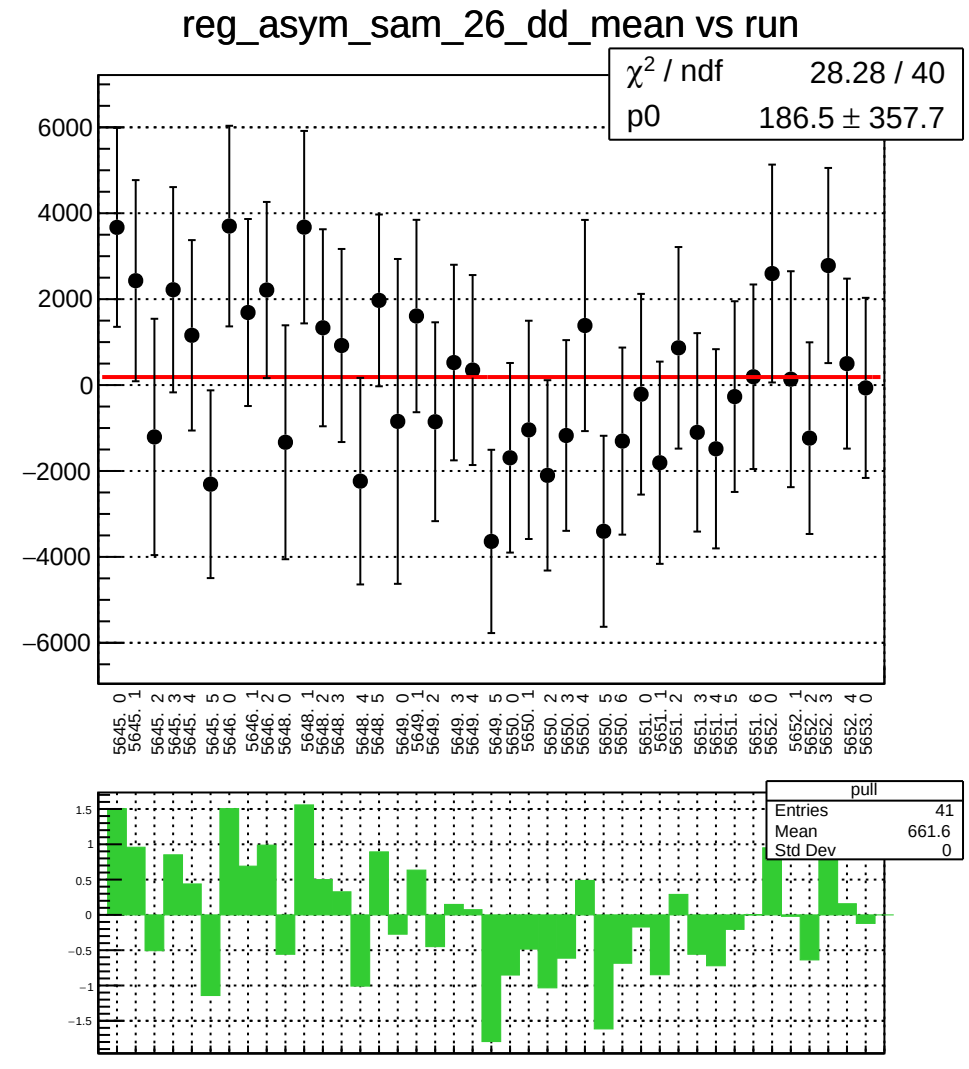

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.07 / 40
p0 −0.01912 ± 0.06841
1.5
1
0.5
0
−0.5
−1
−1.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 68.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.01271
Std Dev 0.898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

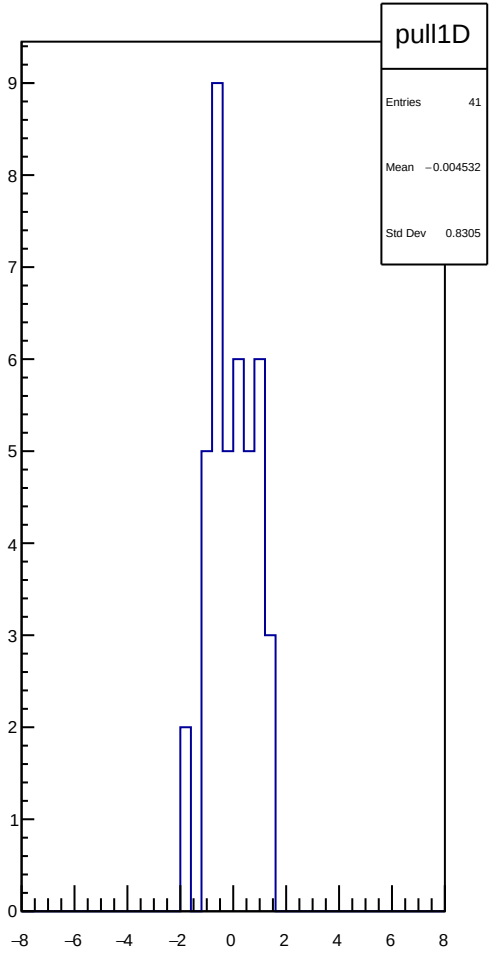

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5635 / 40
p0 42.85 ± 0.04838
55
50
45
40
35
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

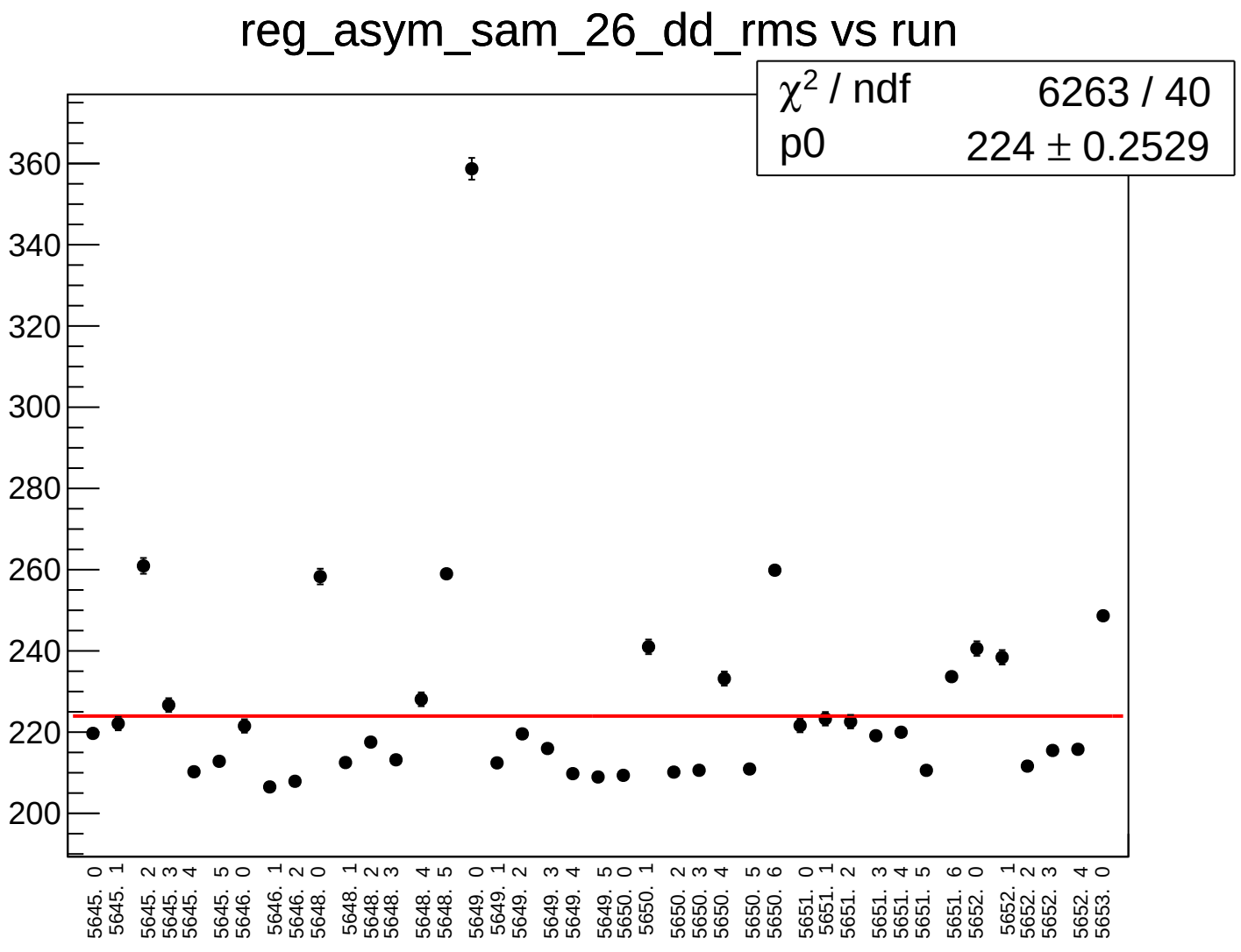

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.34 / 40
p0 4.552e−14 ± 3.606e−14
pull
Entries 41
Mean 33.5
Std Dev 13.38

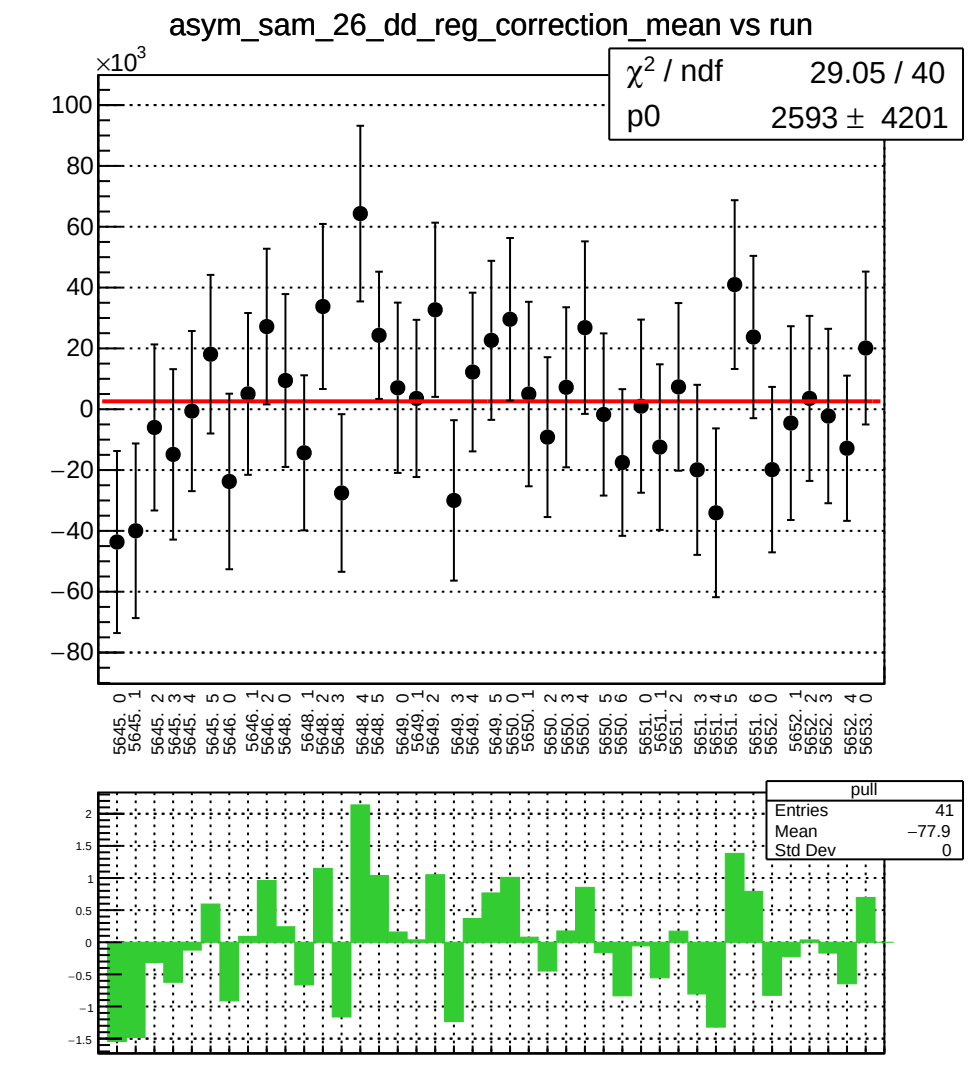

pull1D
Entries 41
Mean 0.08525
Std Dev 0.7815

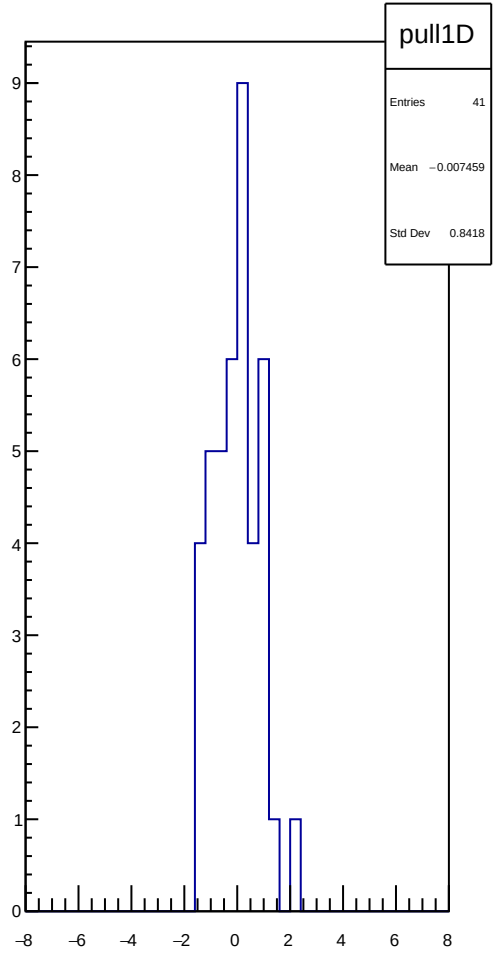

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 2.319e+05 / 40
p0 1.905e−11 ± 2.549e−14
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

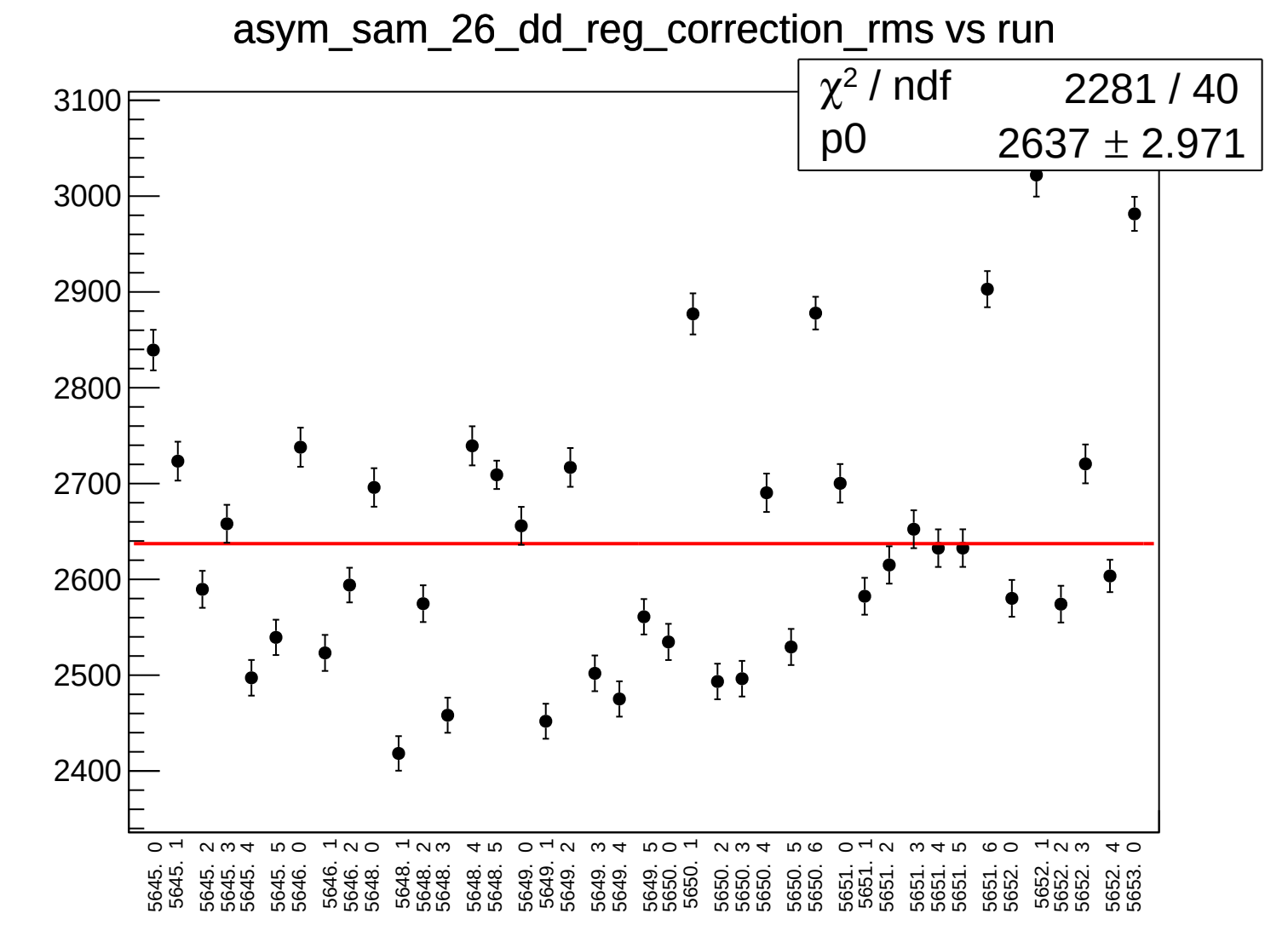

reg_asym_sam_26_dd_mean vs run
χ² / ndf 28.28 / 40
p0 186.5 ± 357.7
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 661.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

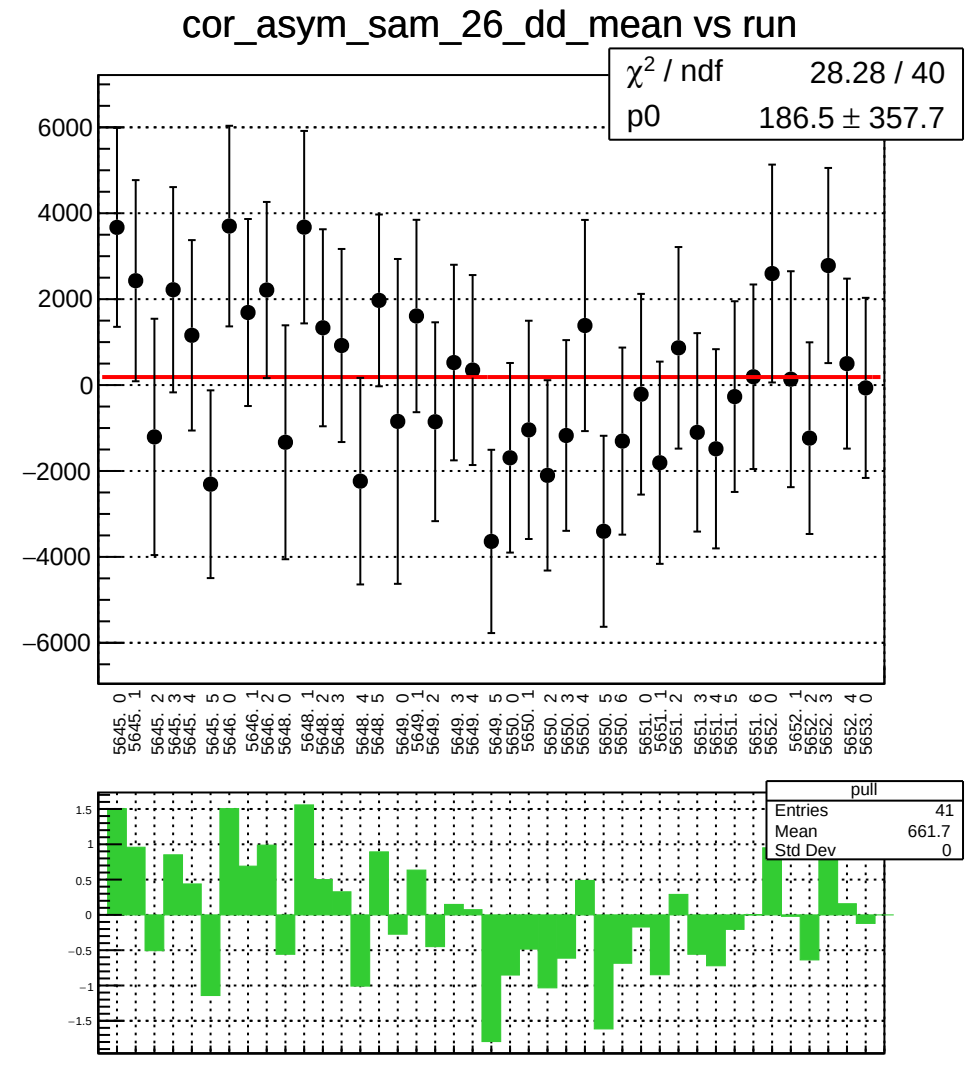

pull1D
Entries 41
Mean −0.004532
Std Dev 0.8305
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

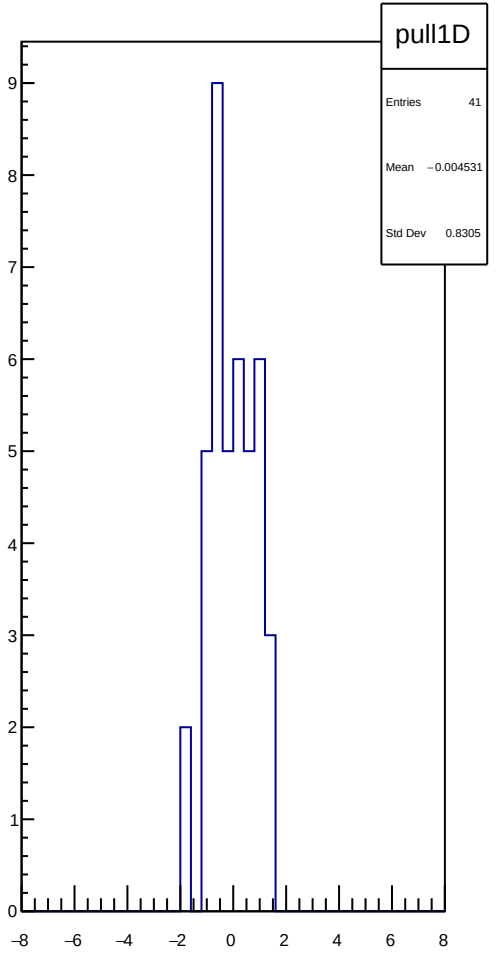

reg_asym_sam_26_dd_rms vs run
χ² / ndf 6263 / 40
p0 224 ± 0.2529
360
340
320
300
280
260
240
220
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

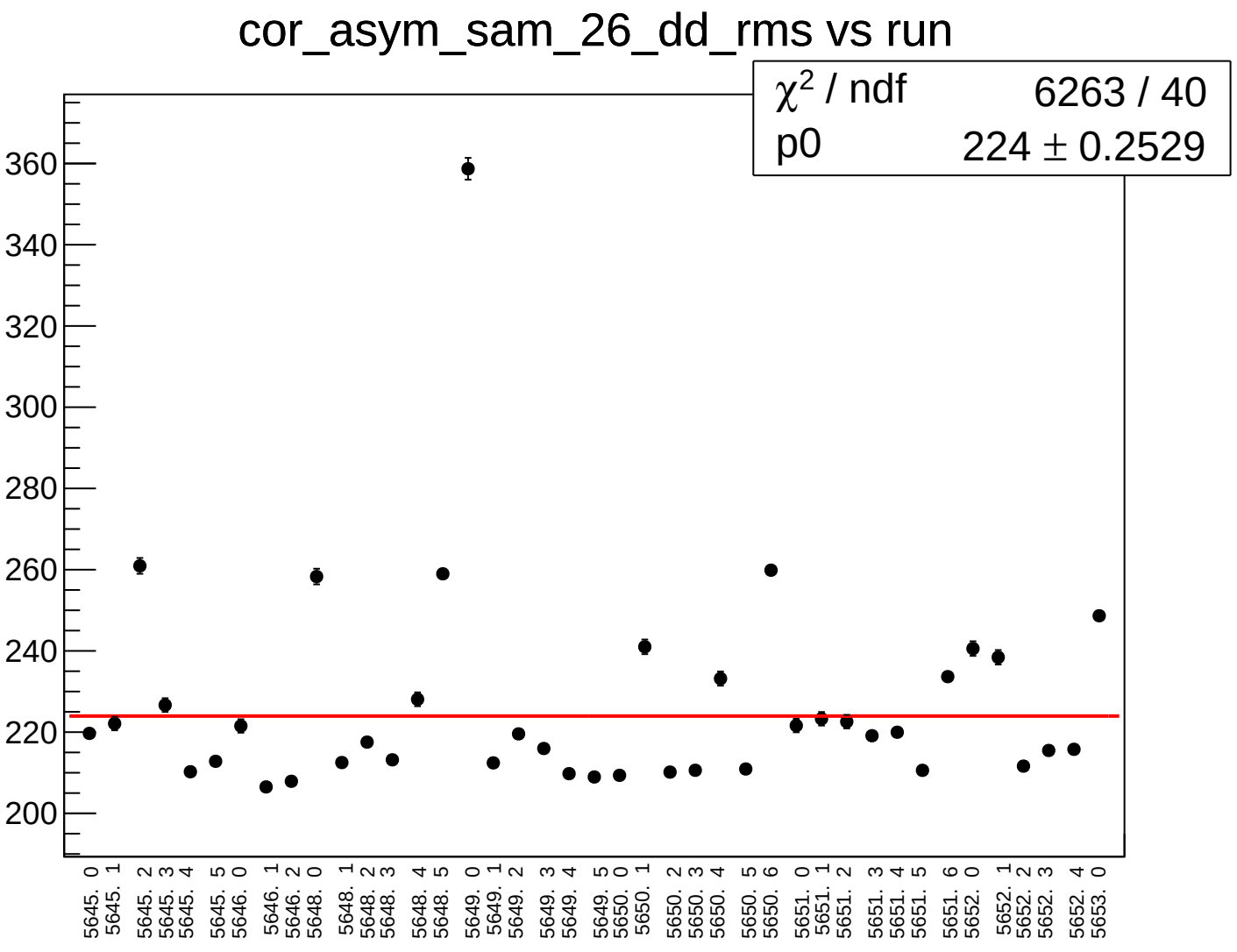

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 29.05 / 40
p0 2593 ± 4201
100
80
60
40
20
0
−20
−40
−60
−80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −77.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.007459
Std Dev 0.8418
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2281 / 40
p0 2637 ± 2.971
3100
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_sam_26_dd_mean vs run
χ² / ndf 28.28 / 40
p0 186.5 ± 357.7
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 661.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean −0.004531
Std Dev 0.8305
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 6263 / 40
p0 224 ± 0.2529
360
340
320
300
280
260
240
220
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
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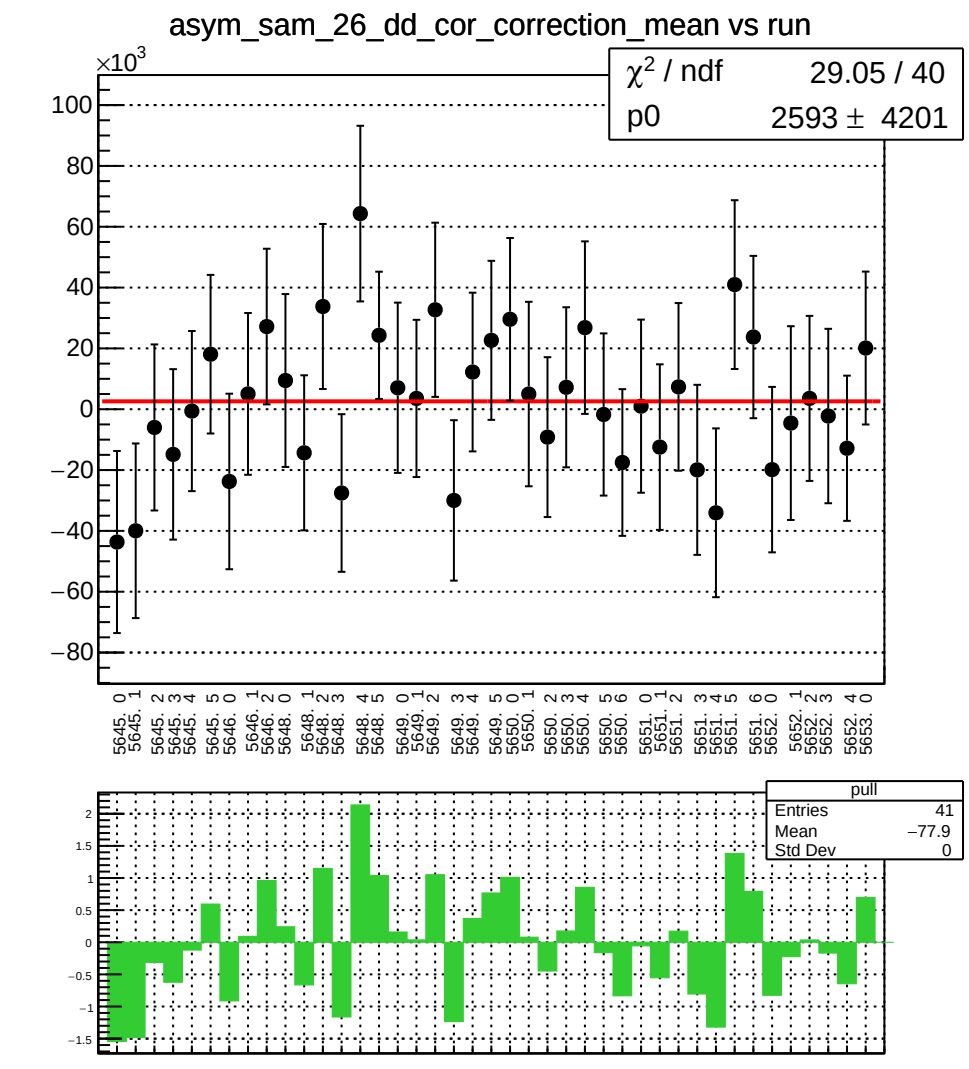
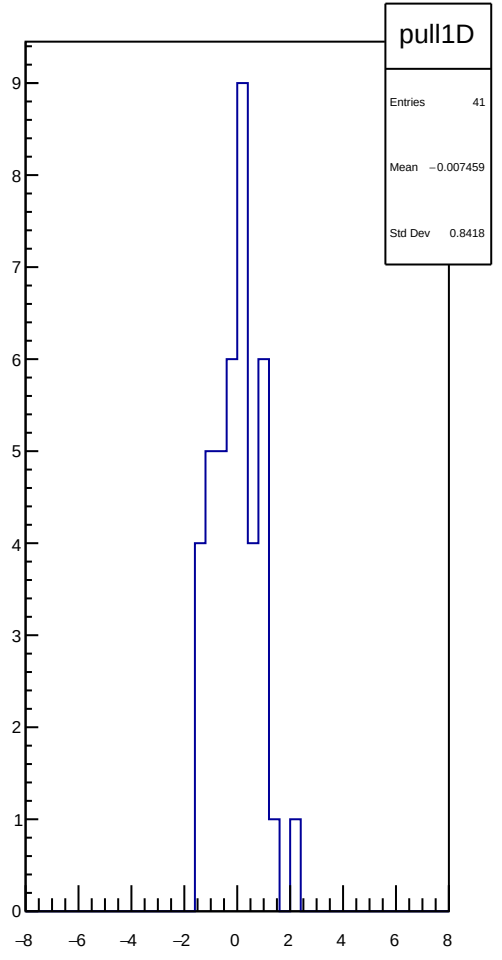
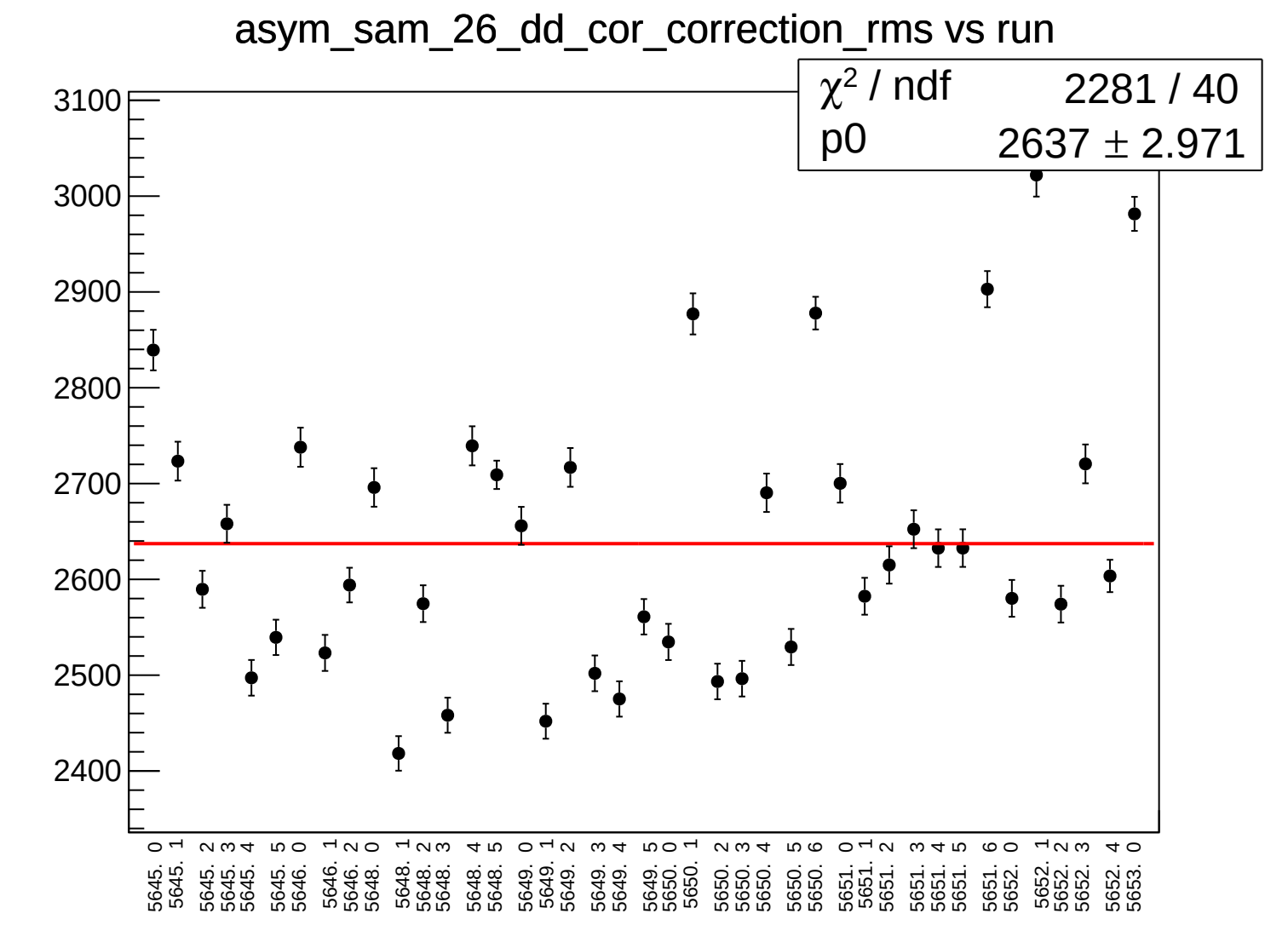
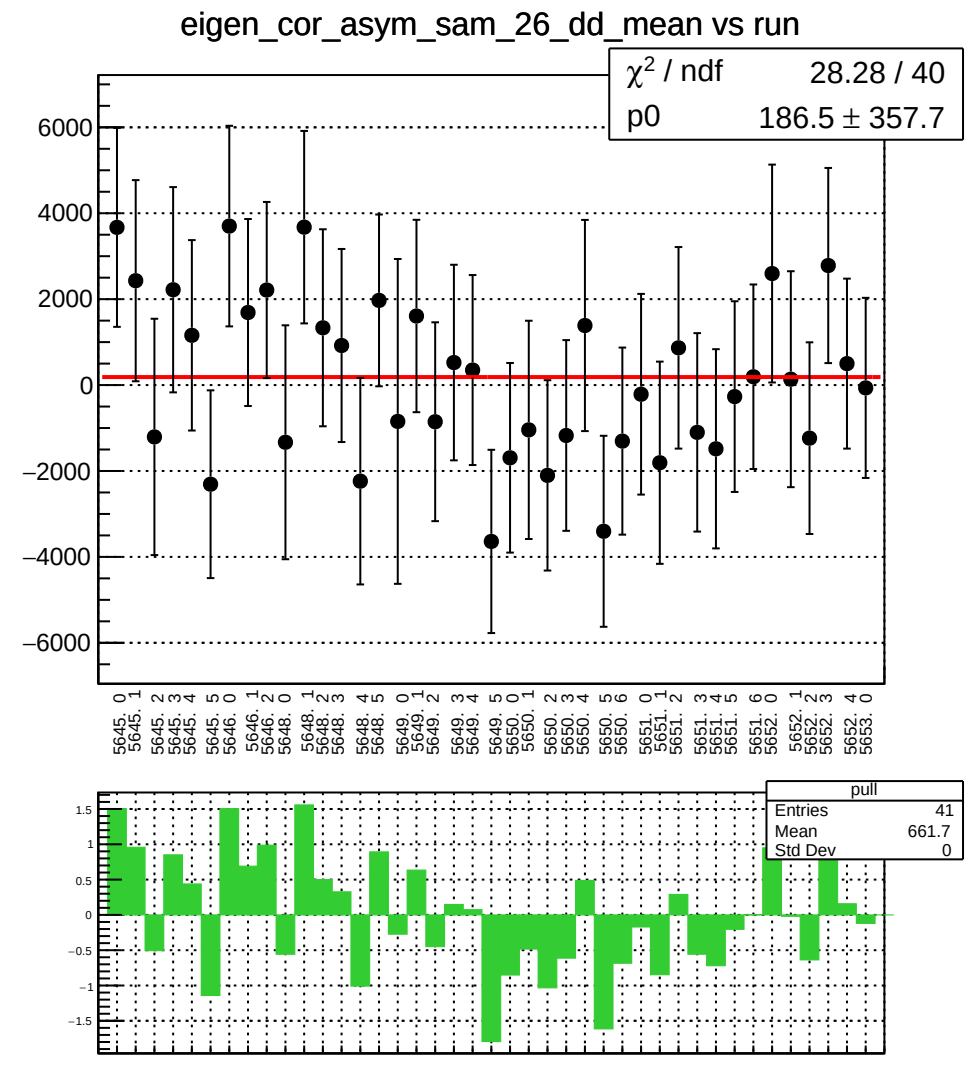
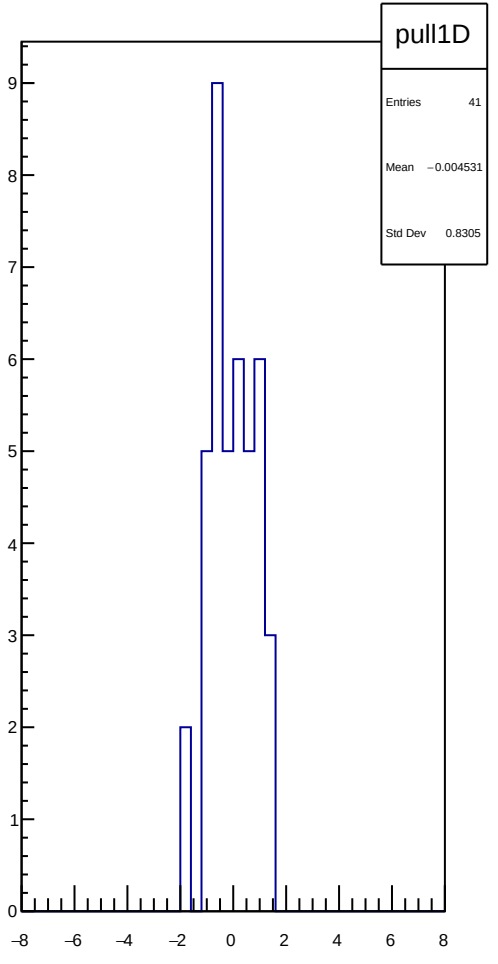
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

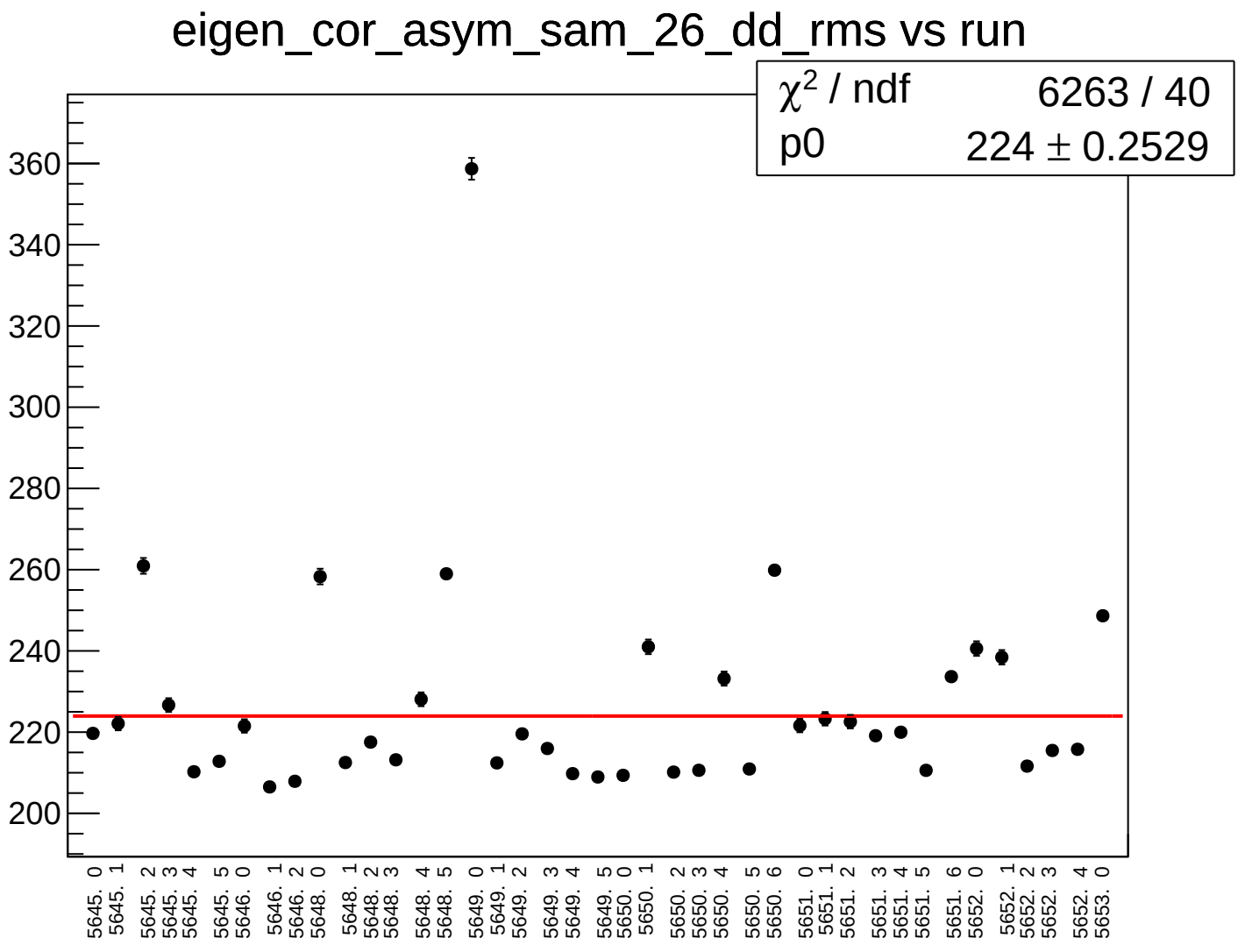

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.05 / 40
p0 2593 ± 4201
100
80
60
40
20
0
−20
−40
−60
−80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −77.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

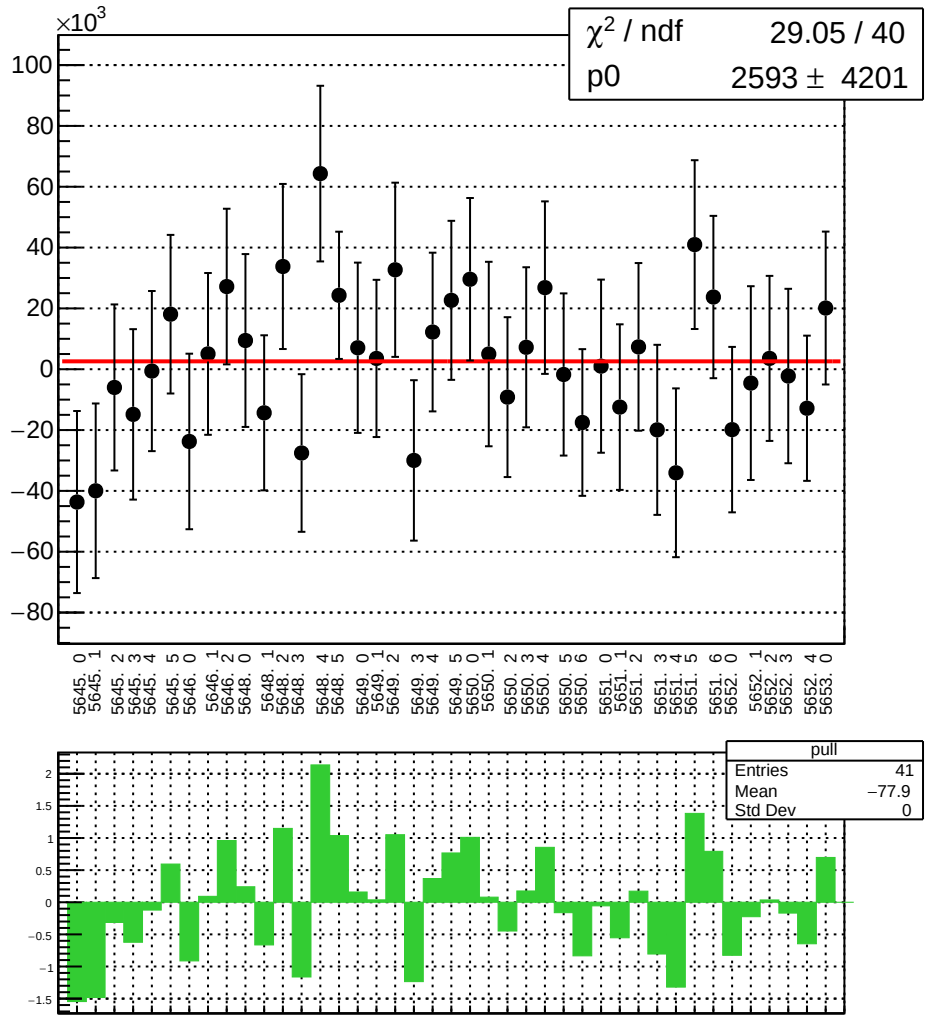

pull1D
Entries 41
Mean −0.007459
Std Dev 0.8418
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

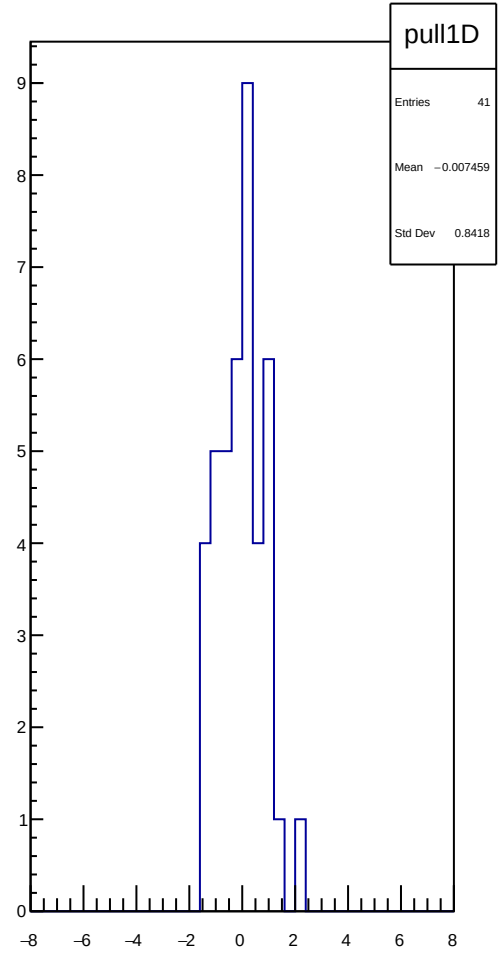

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2281 / 40
p0 2637 ± 2.971
3100
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

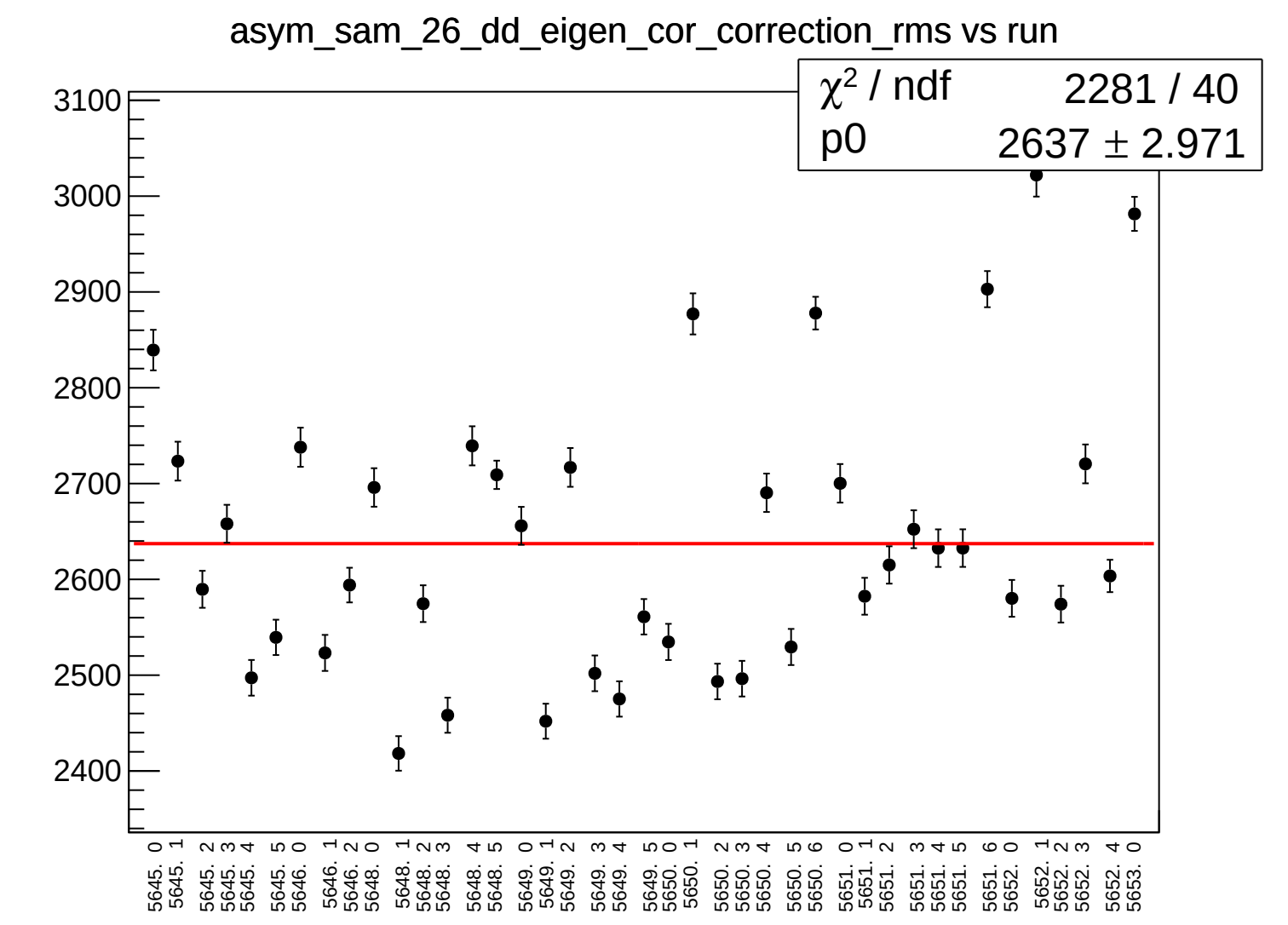

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 28.28 / 40
p0 186.5 ± 357.7
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 661.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

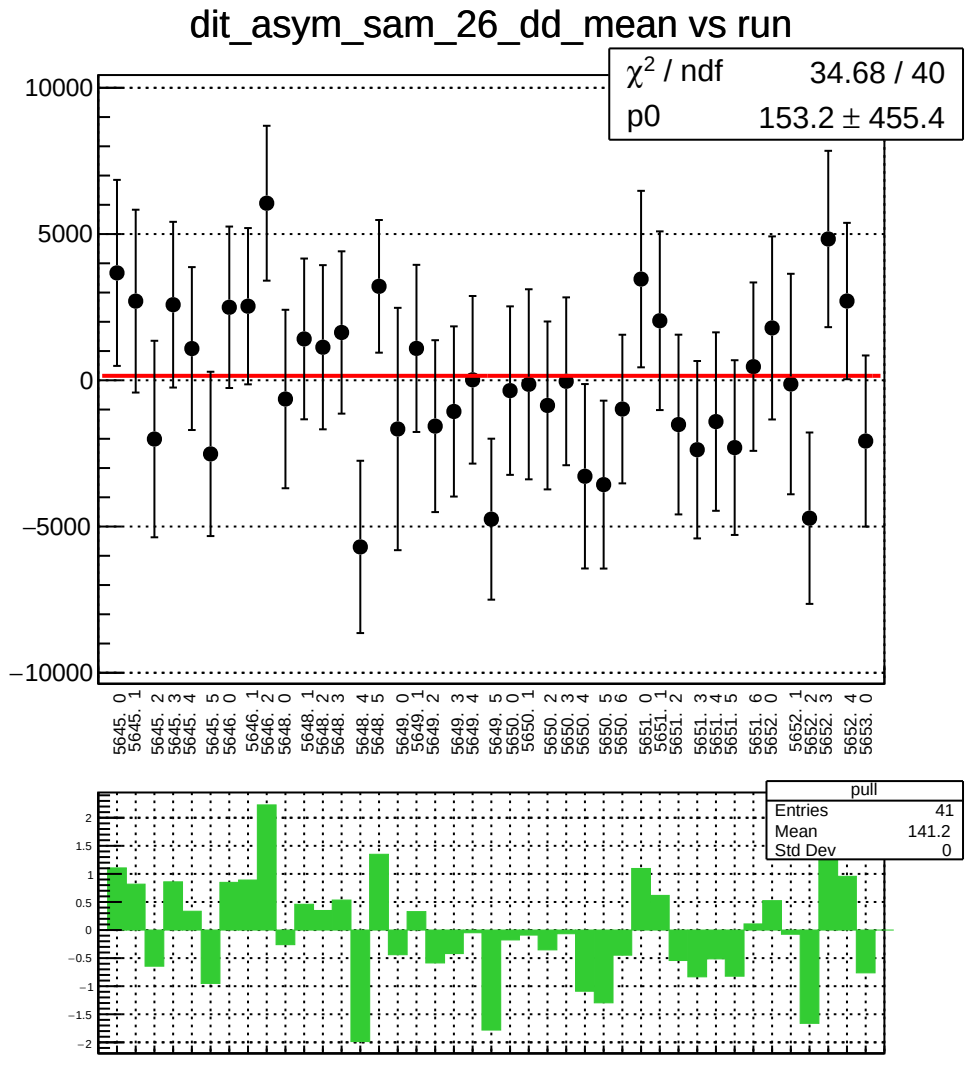

pull1D
Entries 41
Mean −0.004531
Std Dev 0.8305
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

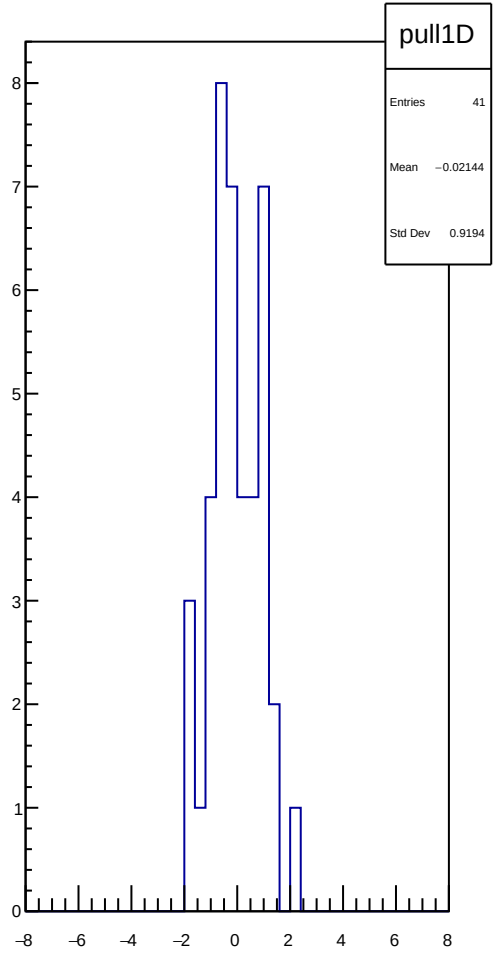

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 6263 / 40
p0 224 ± 0.2529
360
340
320
300
280
260
240
220
200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

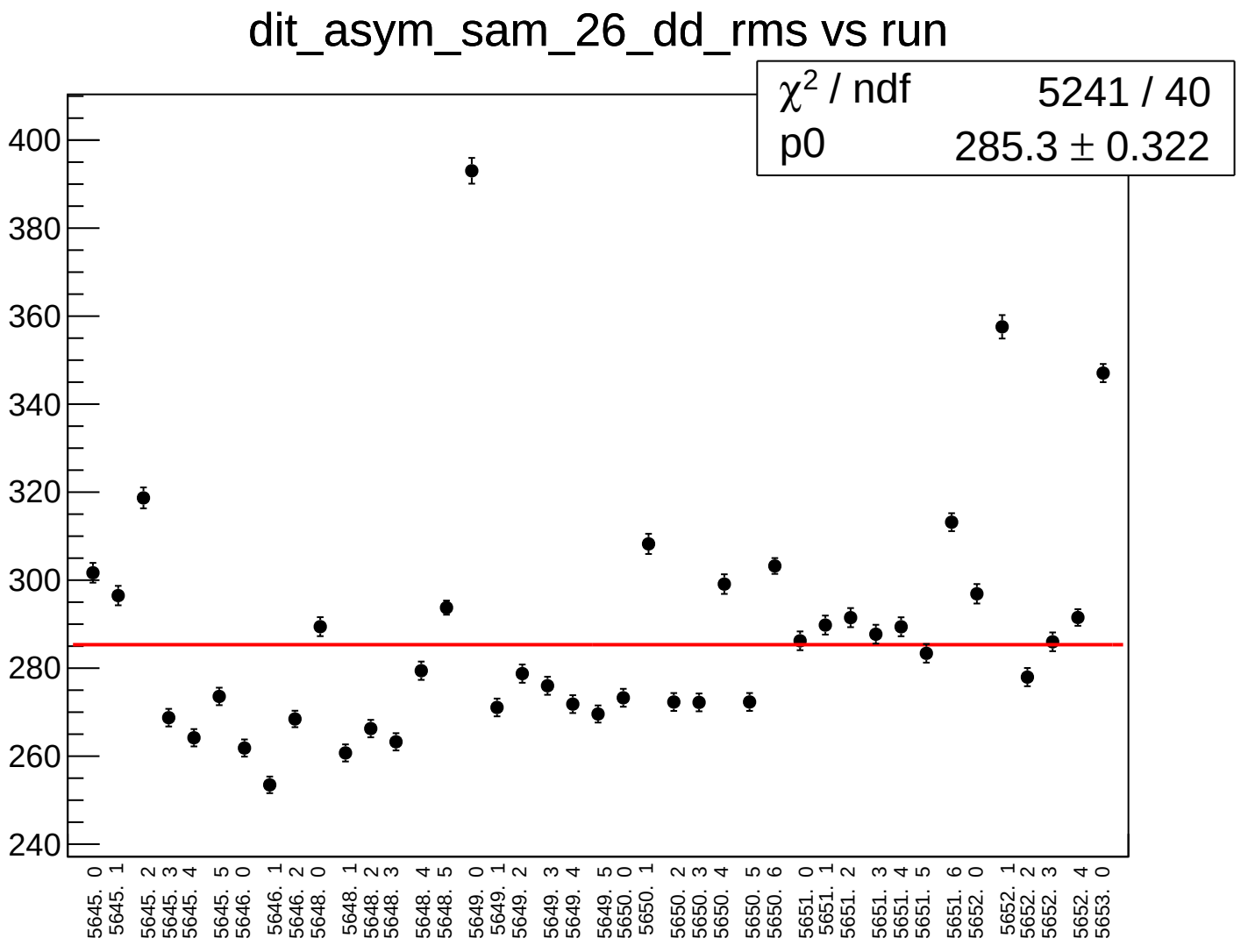

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.05 / 40
p0 2593 ± 4201
pull
Entries 41
Mean −77.9
Std Dev 0

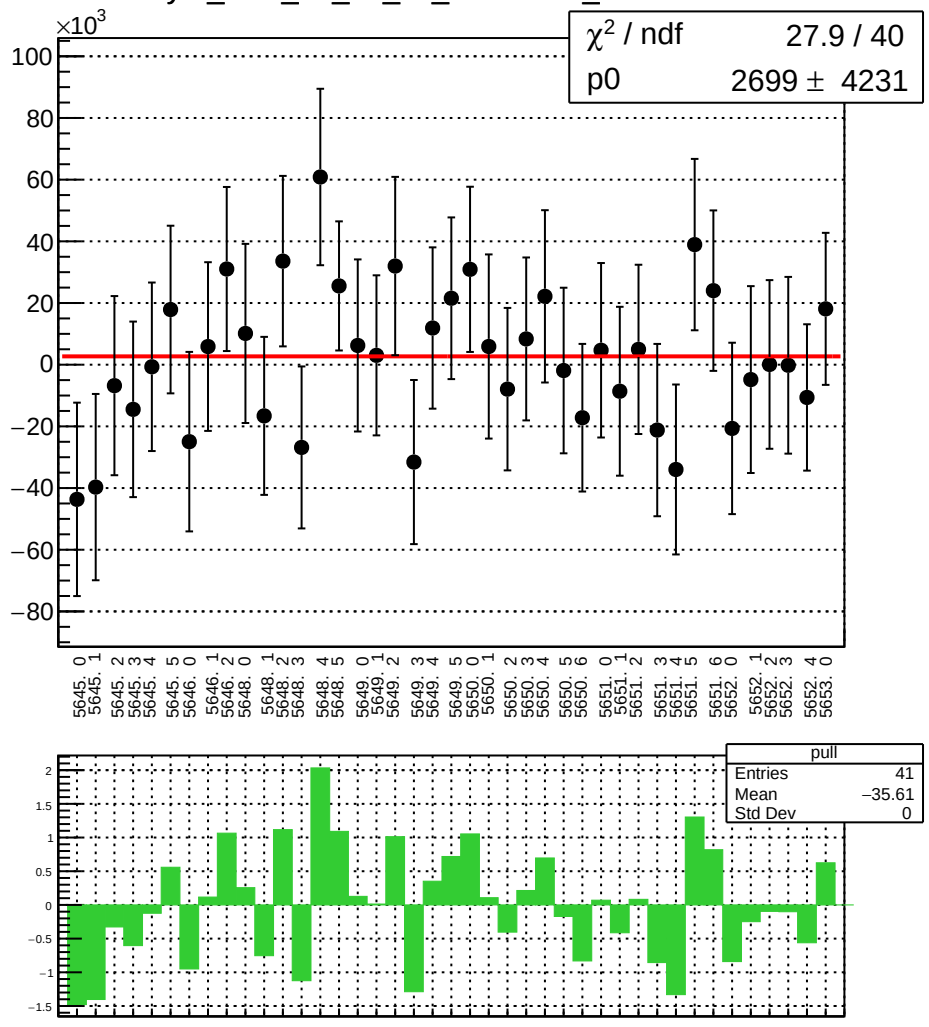

pull1D
Entries 41
Mean −0.007459
Std Dev 0.8418

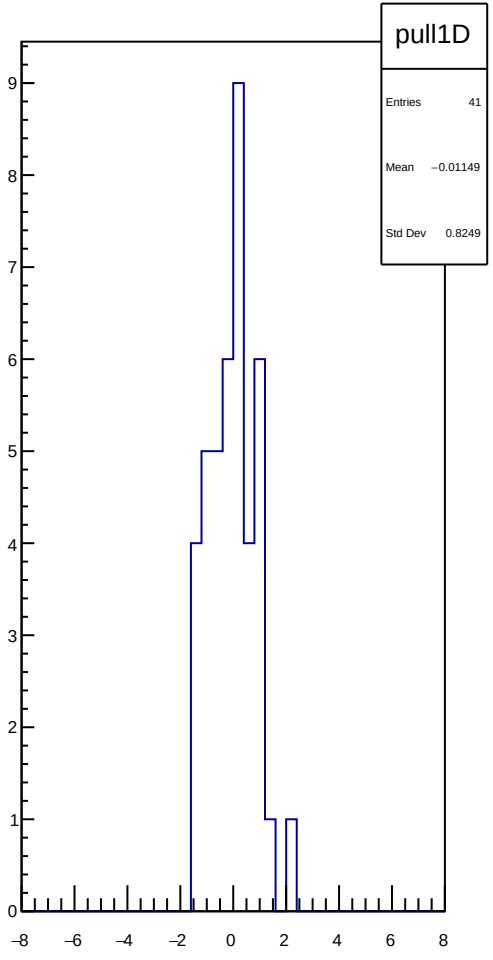

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2281 / 40
p0 2637 ± 2.971
3100
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

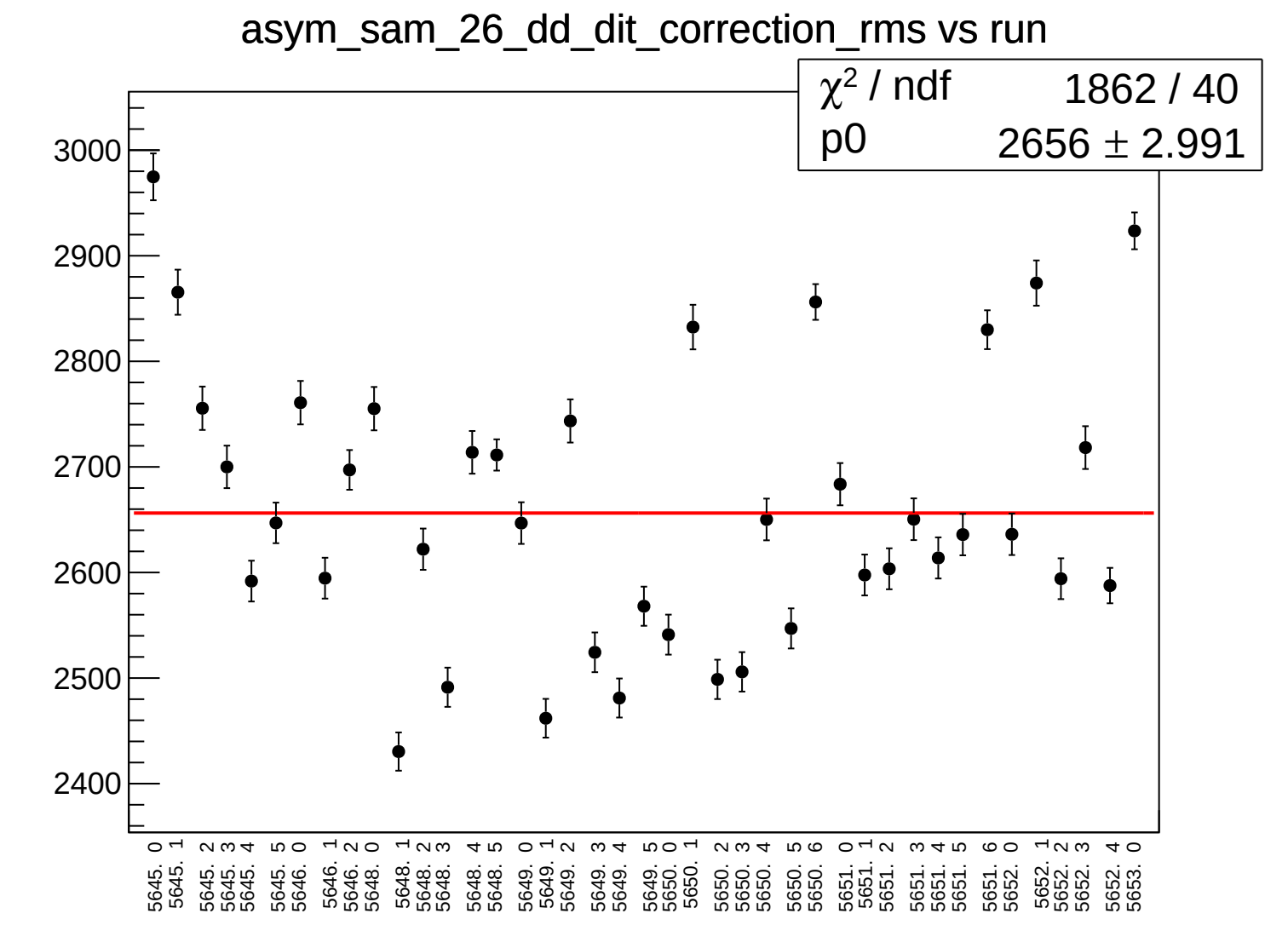

dit_asym_sam_26_dd_mean vs run
χ² / ndf 34.68 / 40
p0 153.2 ± 455.4
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

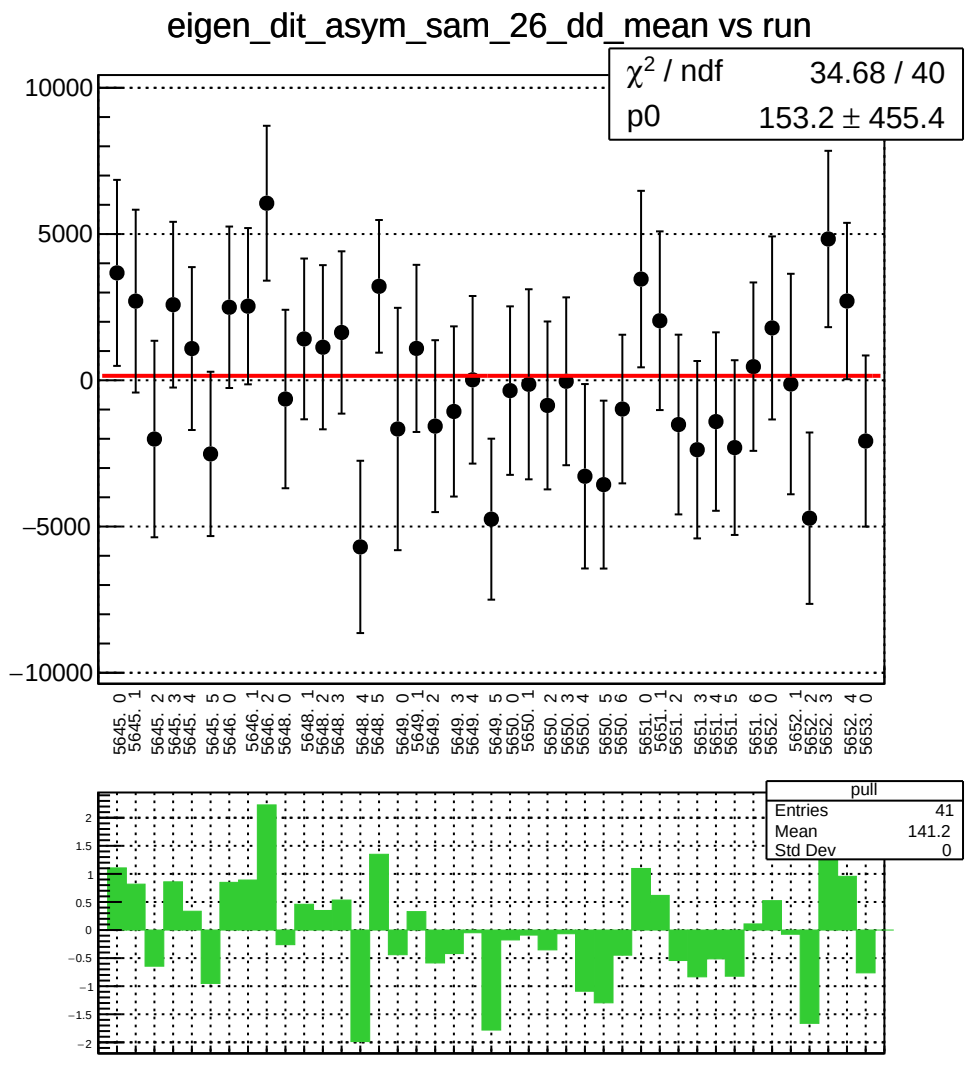

pull1D
Entries 41
Mean −0.02144
Std Dev 0.9194
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

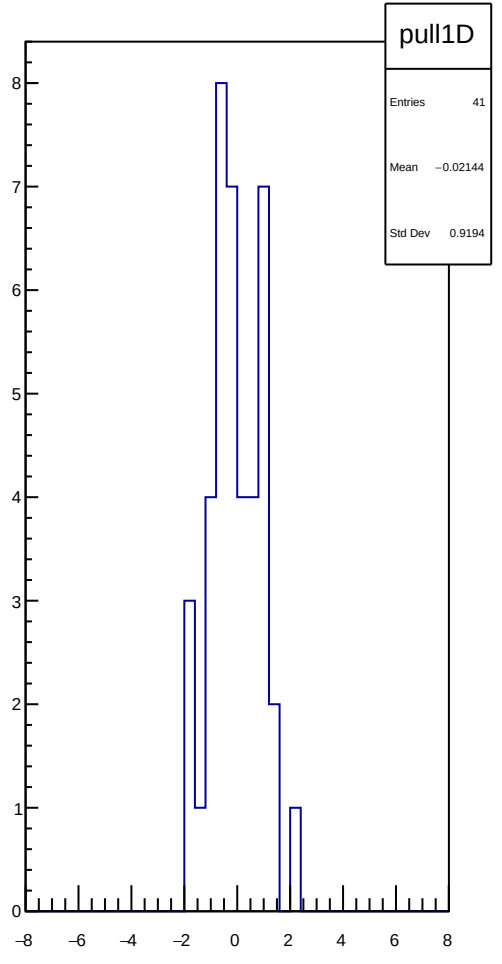

dit_asym_sam_26_dd_rms vs run
χ² / ndf 5241 / 40
p0 285.3 ± 0.322
400
380
360
340
320
300
280
260
240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

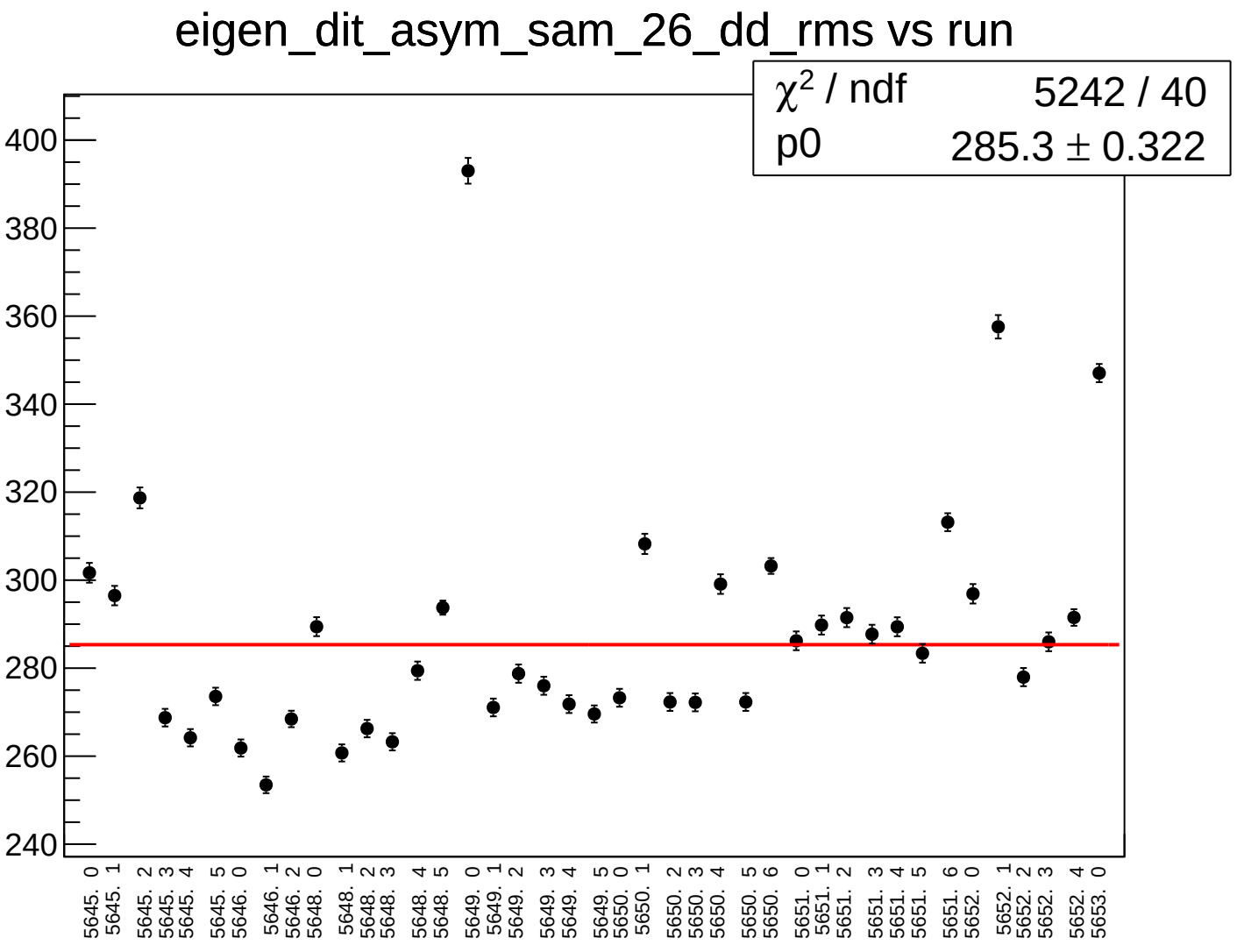

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 27.9 / 40
p0 2699 ± 4231
pull
Entries 41
Mean −35.61
Std Dev 0

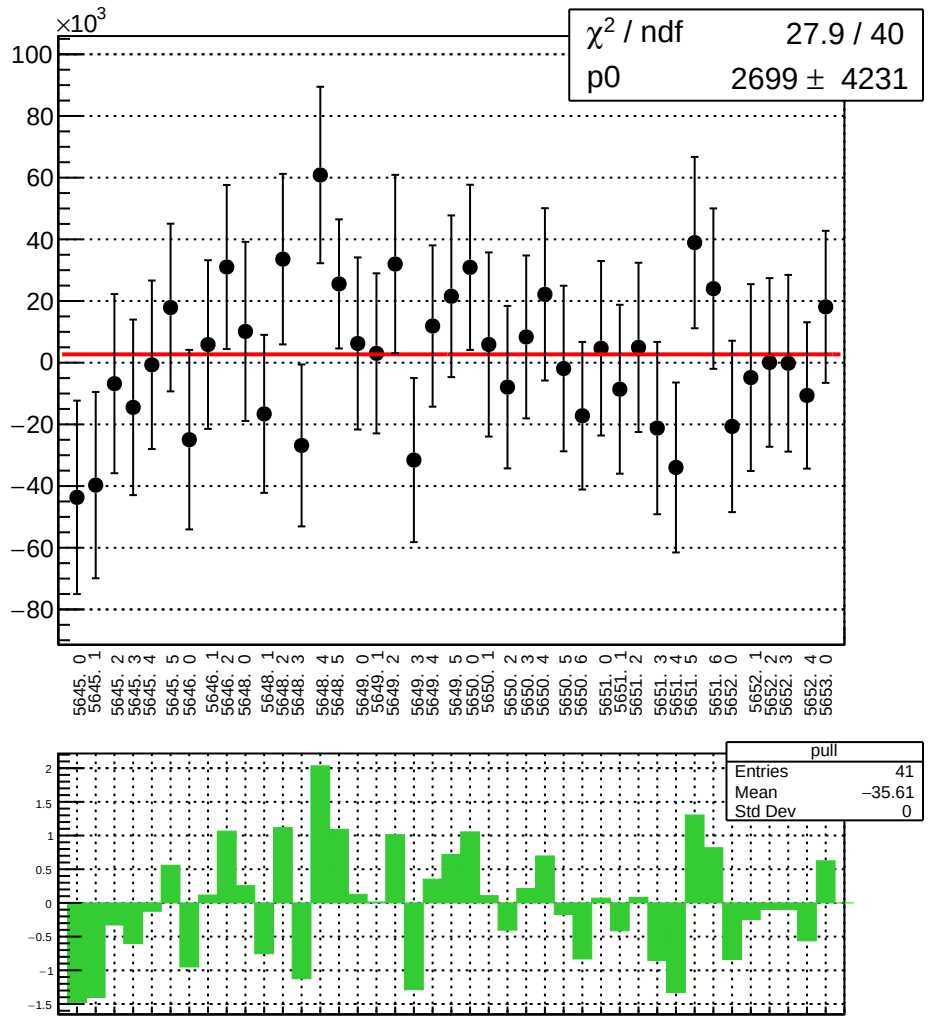

pull1D
Entries 41
Mean −0.01149
Std Dev 0.8249

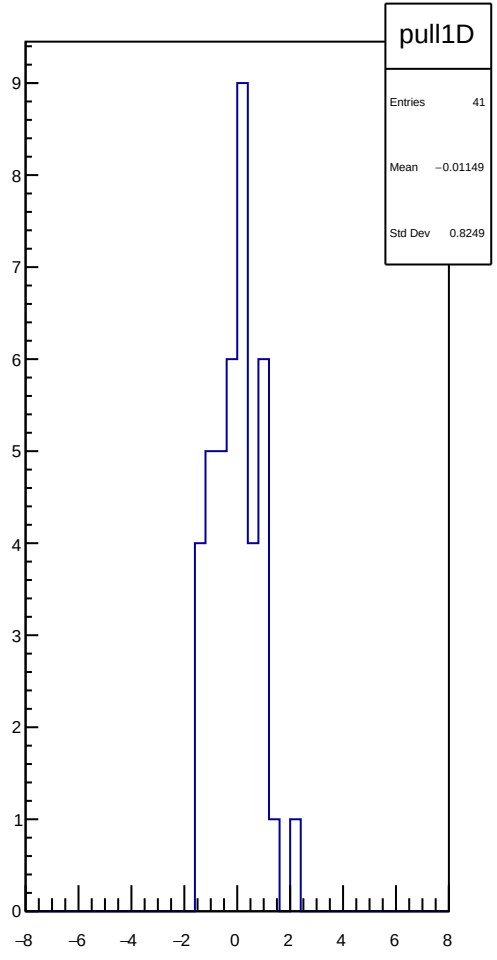

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1862 / 40
p0 2656 ± 2.991
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

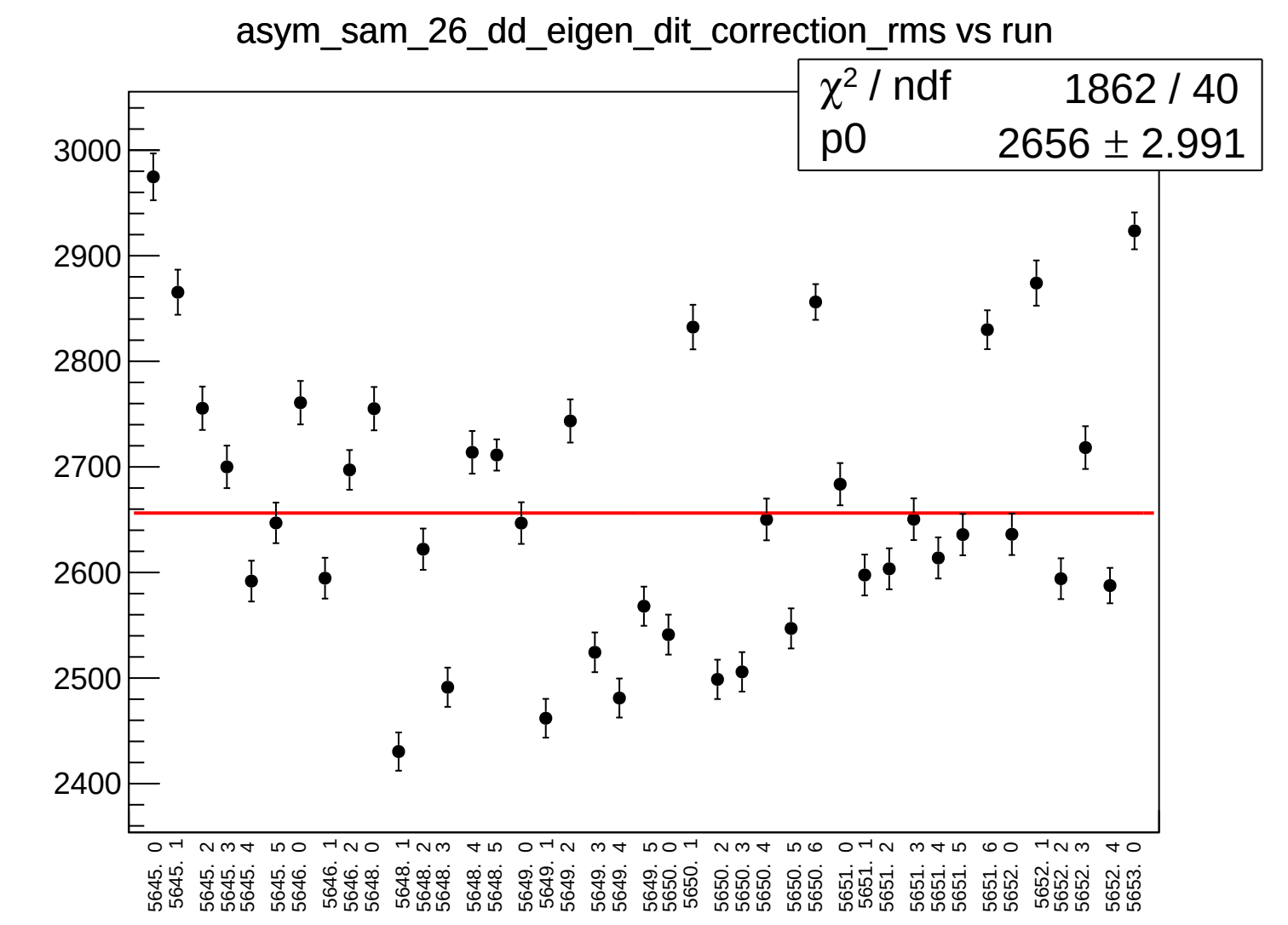

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 34.68 / 40
p0 153.2 ± 455.4
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 141.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

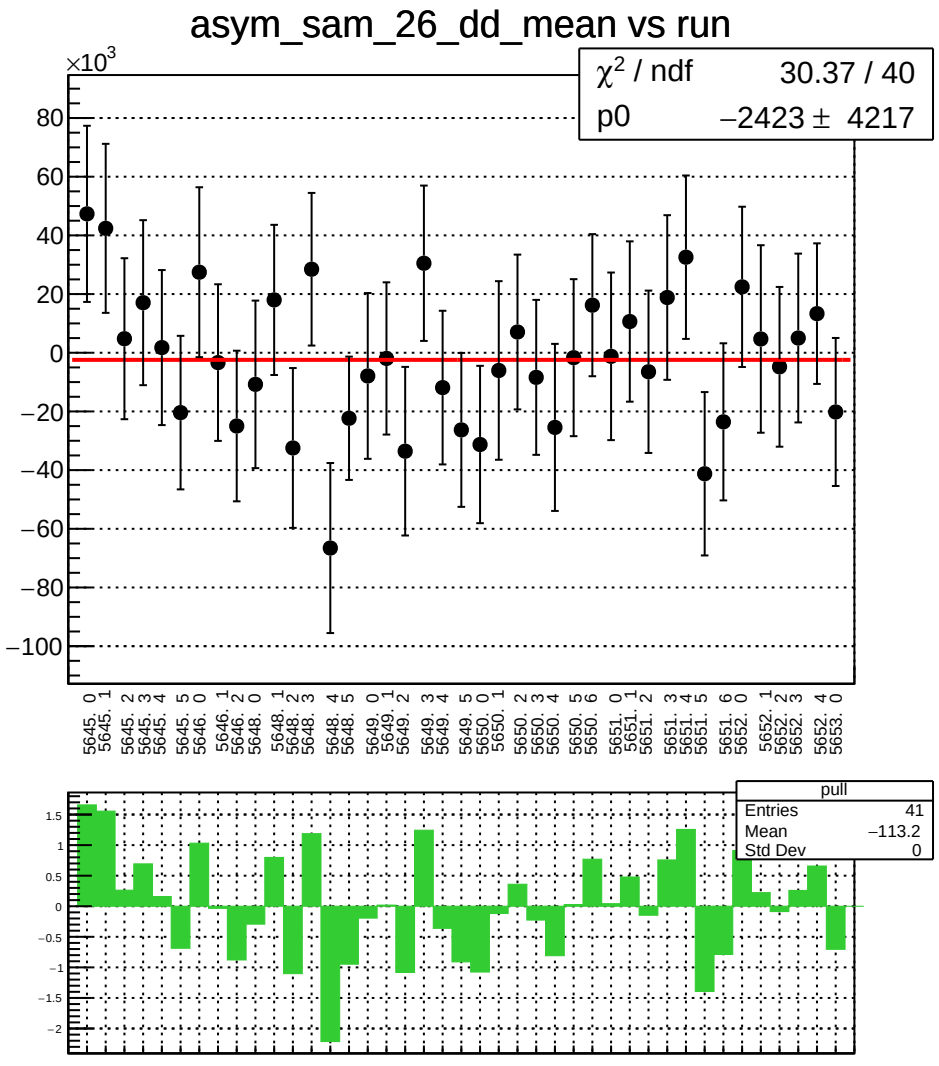

pull1D
Entries 41
Mean −0.02144
Std Dev 0.9194
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

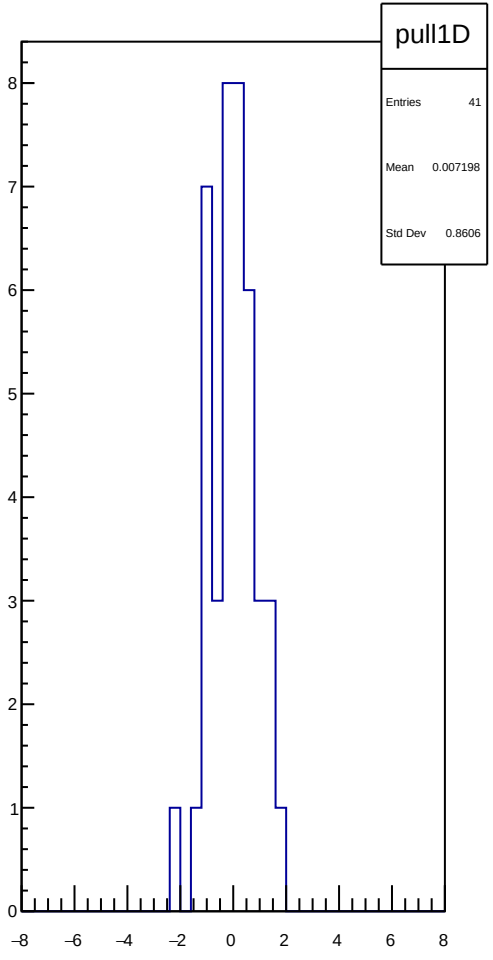

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 5242 / 40
p0 285.3 ± 0.322
400
380
360
340
320
300
280
260
240
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

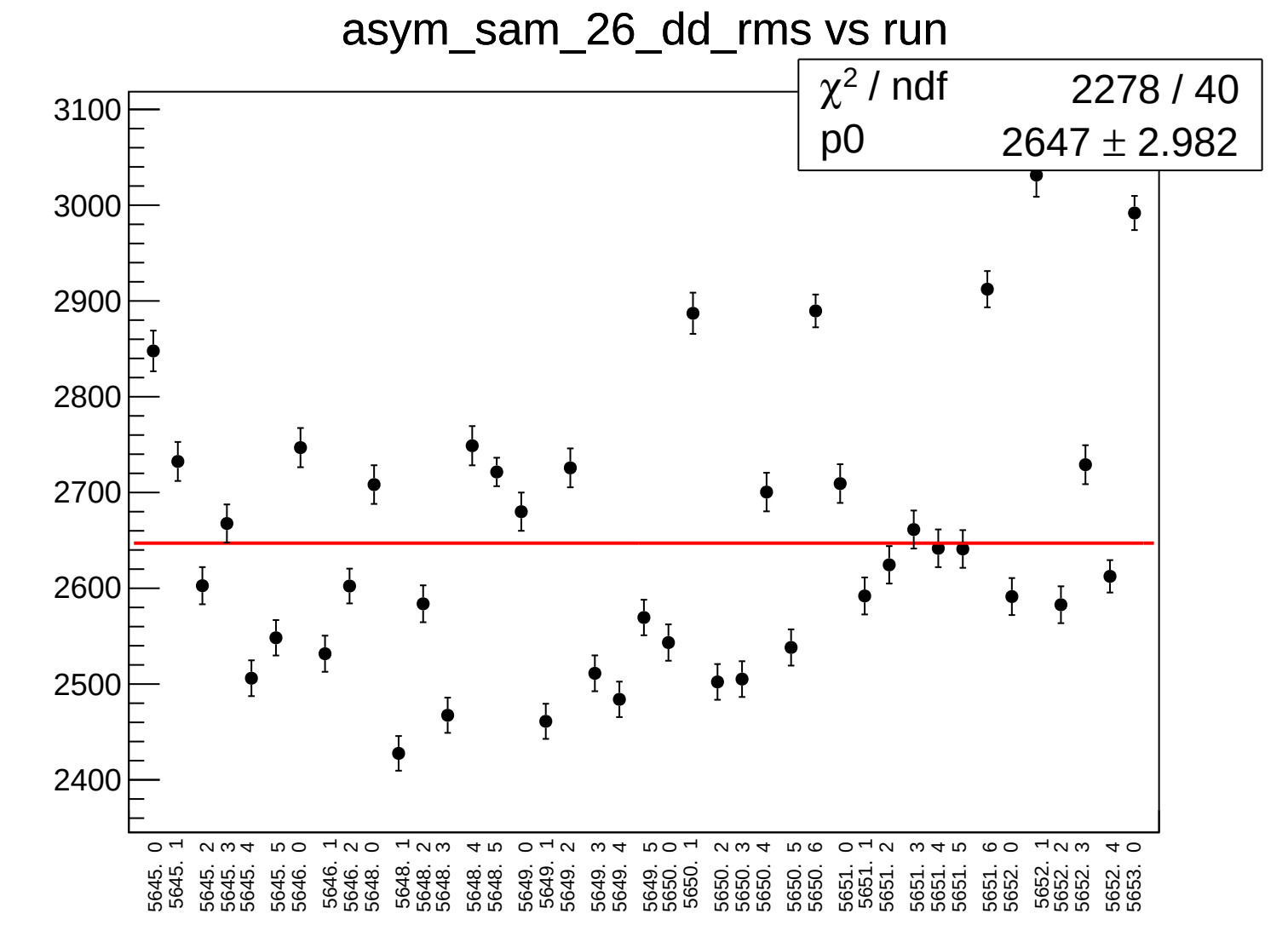

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 27.9 / 40
p0 2699 ± 4231
pull
Entries 41
Mean −35.61
Std Dev 0

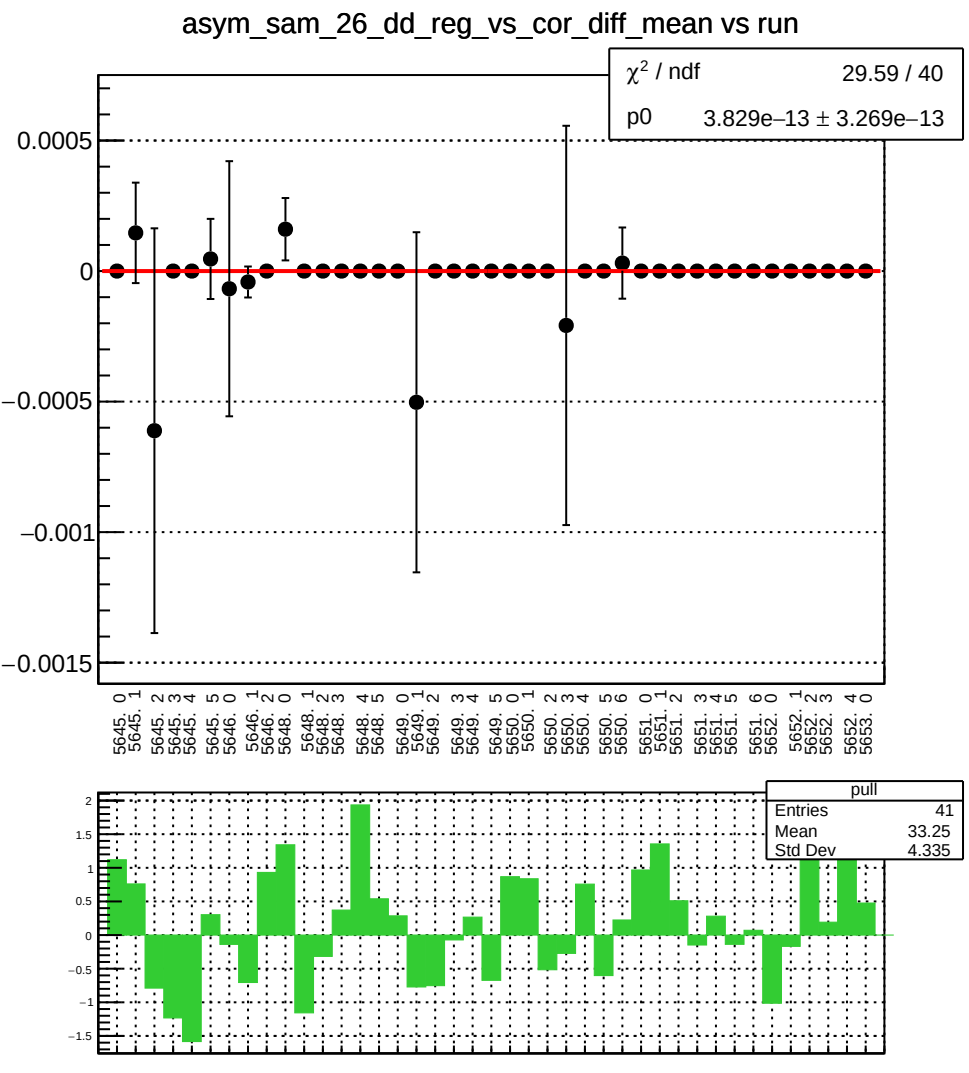

pull1D
Entries 41
Mean −0.01149
Std Dev 0.8249

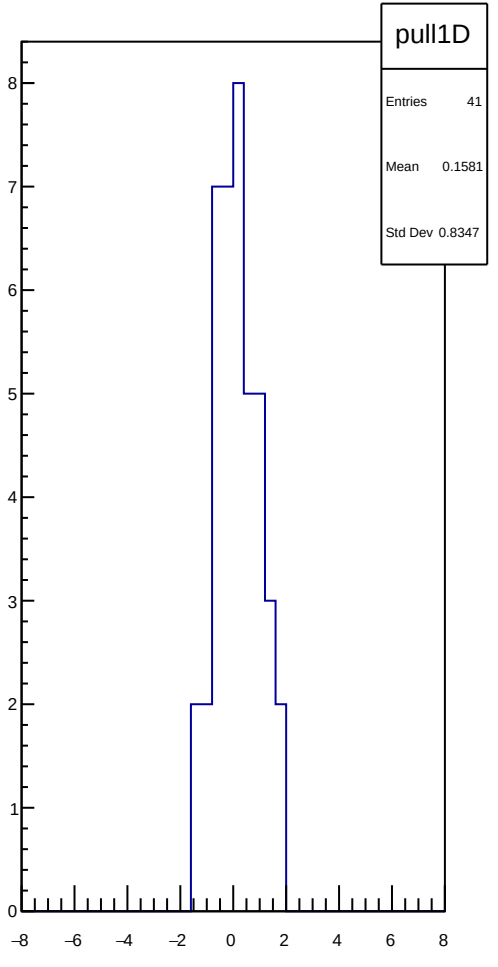

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1862 / 40
p0 2656 ± 2.991
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

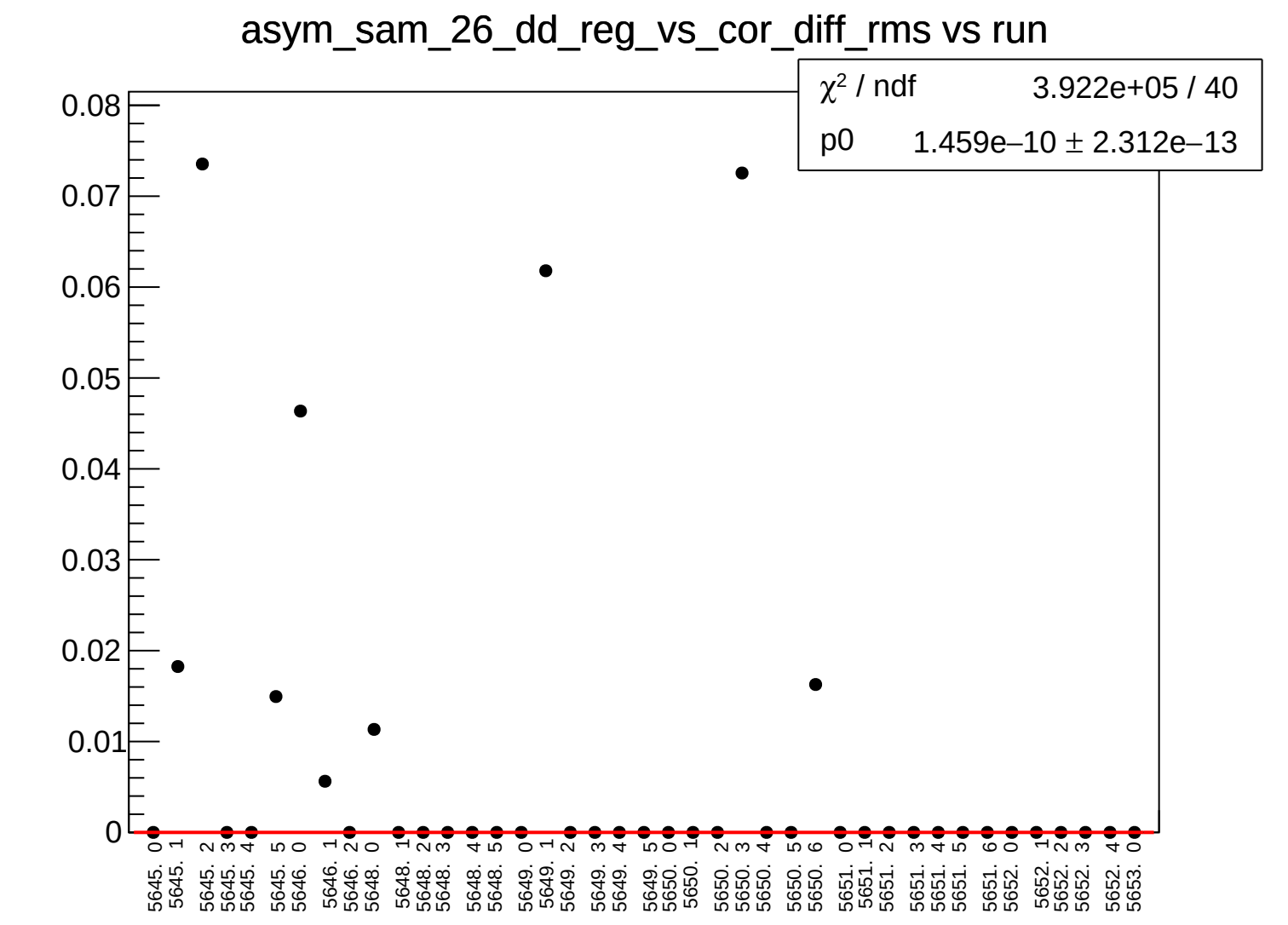

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 30.37 / 40
p0 −2423 ± 4217
80
60
40
20
0
−20
−40
−60
−80
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −113.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

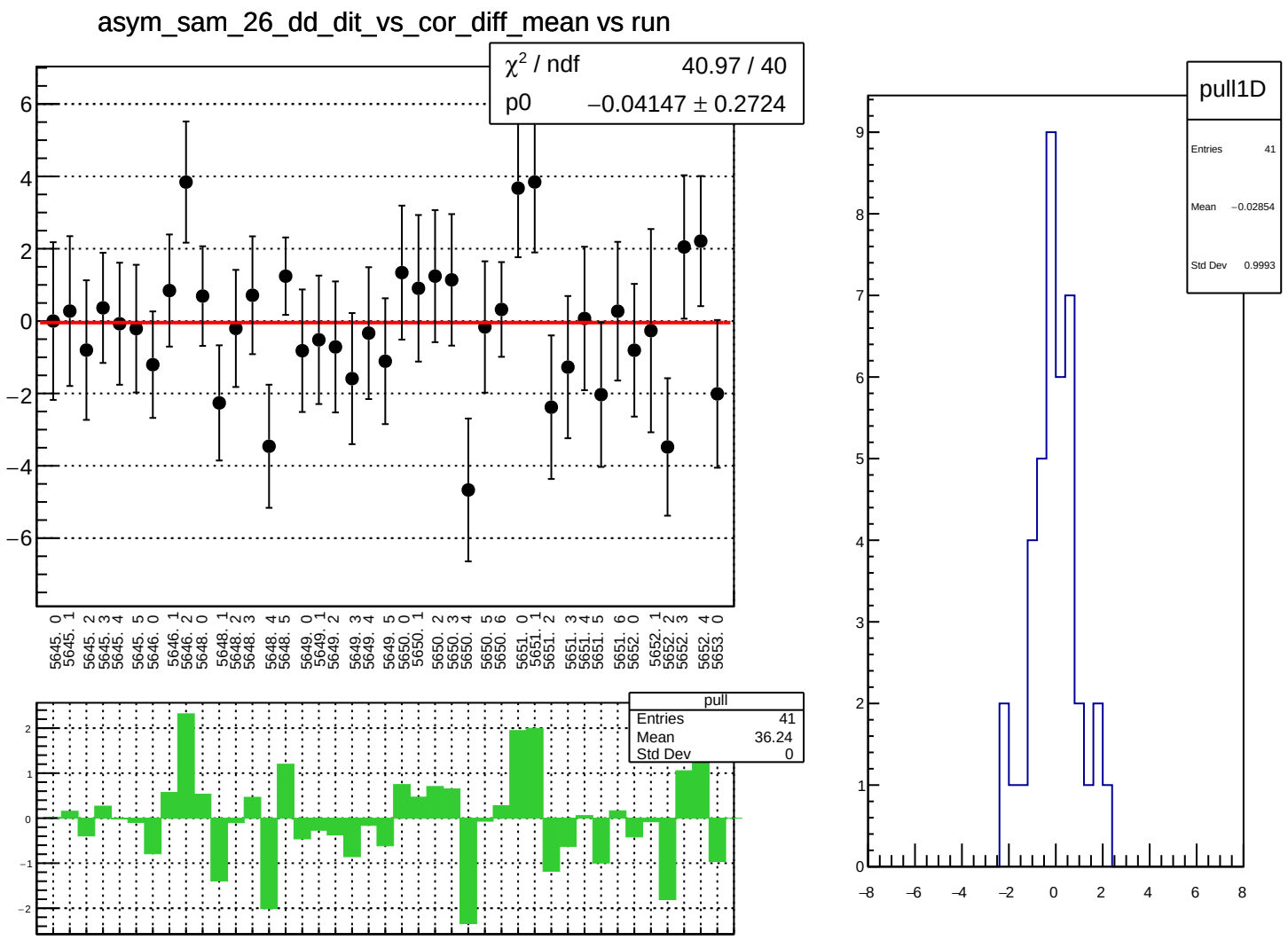

pull1D
Entries 41
Mean 0.007198
Std Dev 0.8606
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

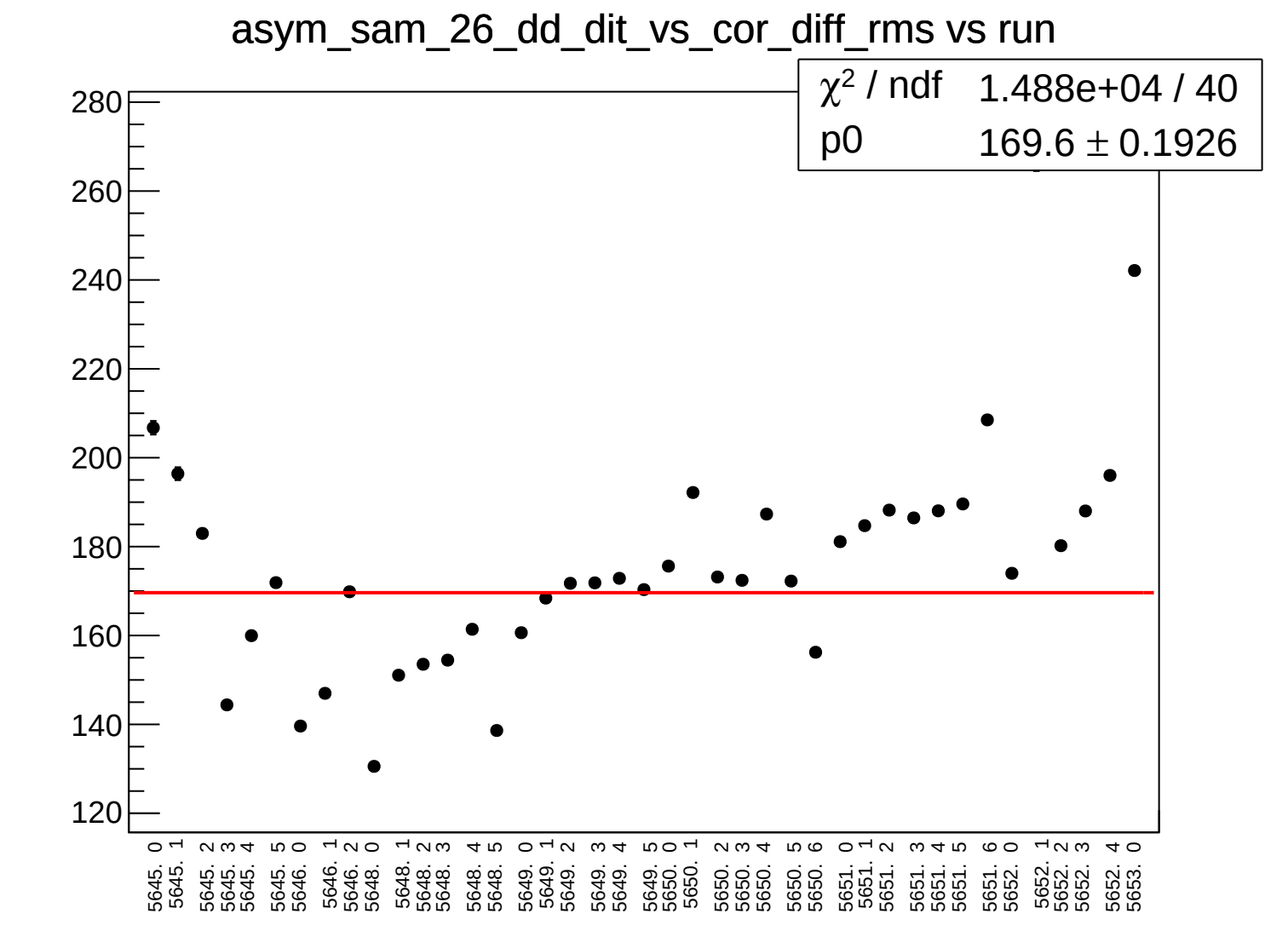

asym_sam_26_dd_rms vs run
χ² / ndf 2278 / 40
p0 2647 ± 2.982
3100
3000
2900
2800
2700
2600
2500
2400
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

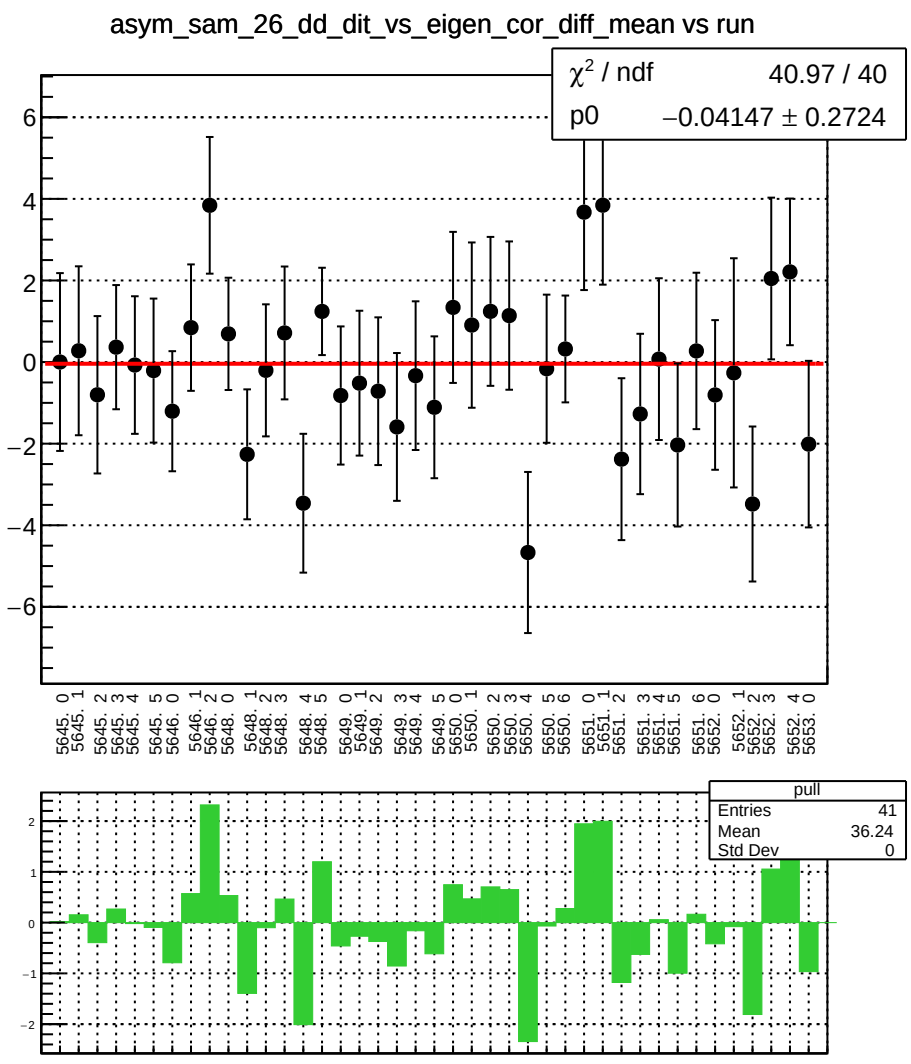

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.59 / 40
p0 3.829e−13 ± 3.269e−13
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 41
Mean 33.25
Std Dev 4.335
2
1.5
1
0.5
0
−0.5
−1
−1.5

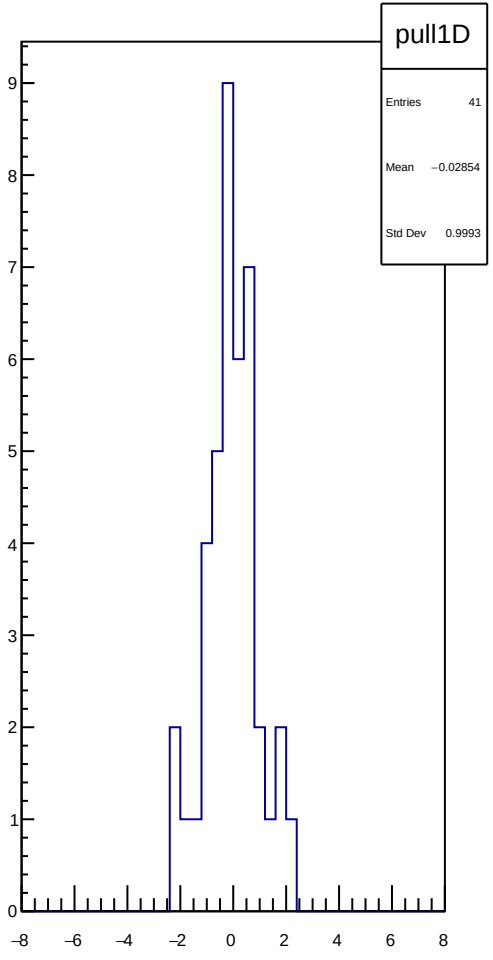

pull1D
Entries 41
Mean 0.1581
Std Dev 0.8347
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

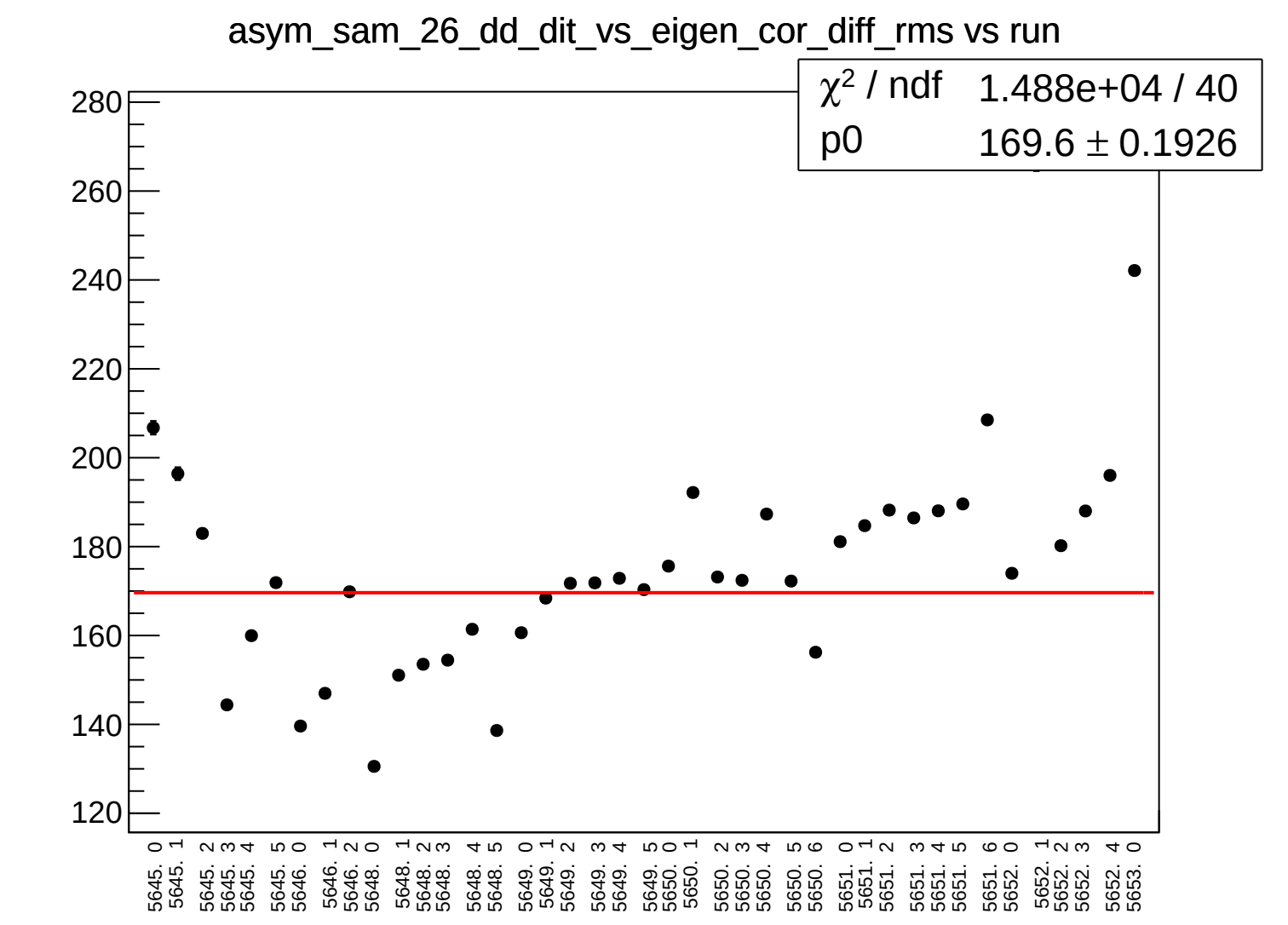

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.922e+05 / 40
p0 1.459e−10 ± 2.312e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

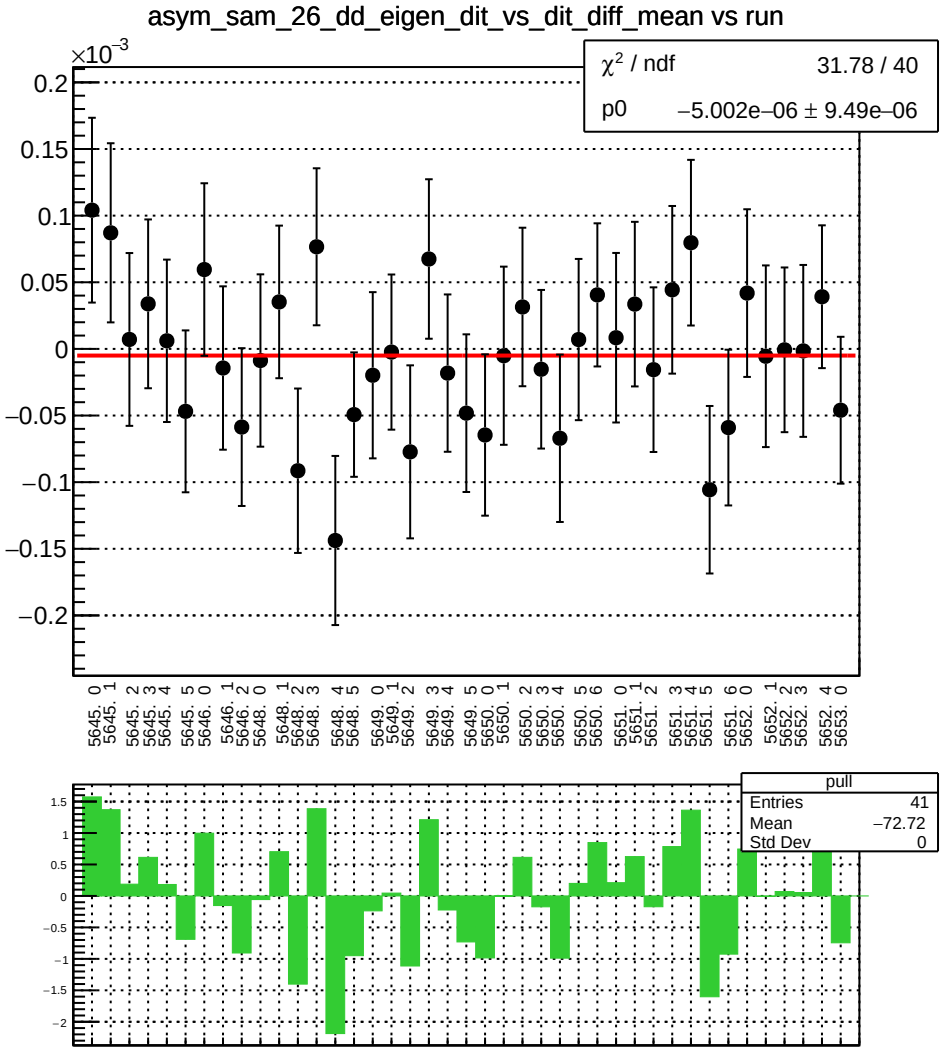

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 40.97 / 40
p0 −0.04147 ± 0.2724
pull
Entries 41
Mean 36.24
Std Dev 0
pull1D
Entries 41
Mean −0.02854
Std Dev 0.9993

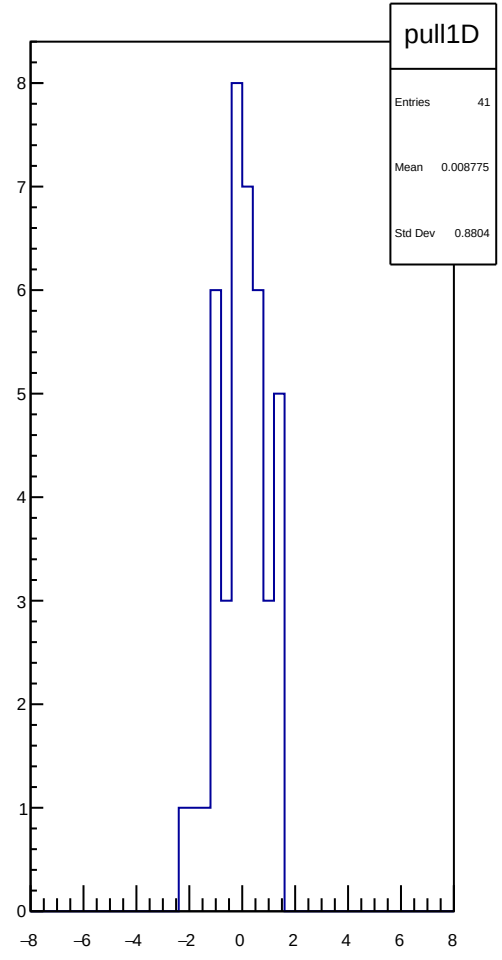

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 40
p0 169.6 ± 0.1926
280
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

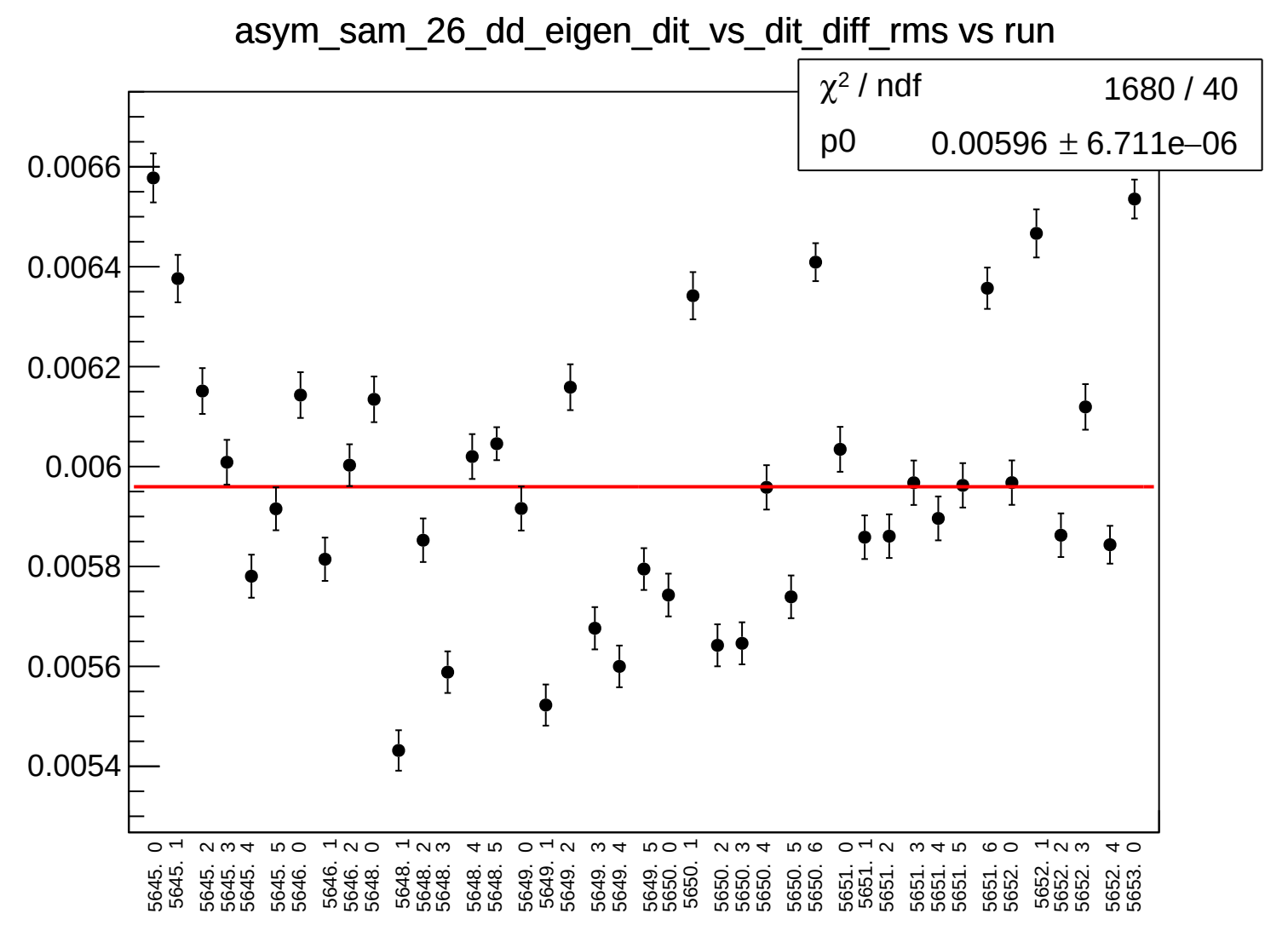

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.97 / 40
p0 −0.04147 ± 0.2724
pull
Entries 41
Mean 36.24
Std Dev 0

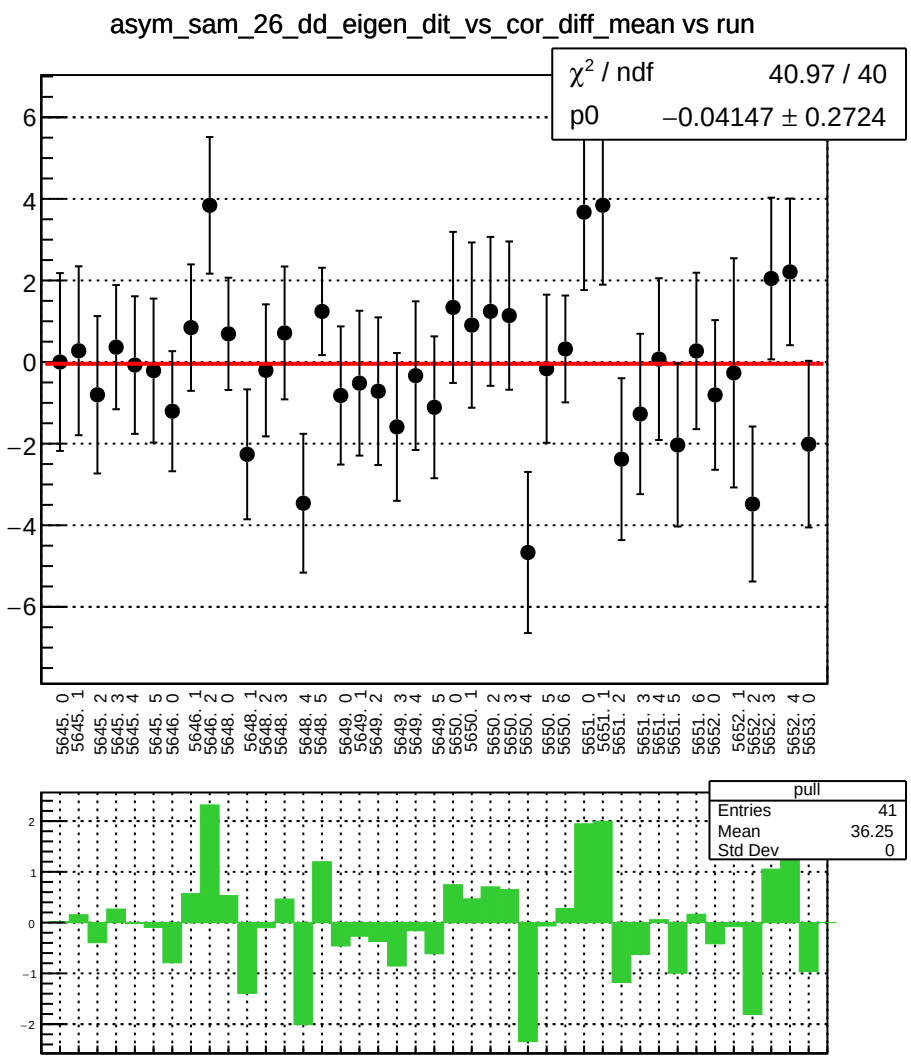

pull1D
Entries 41
Mean −0.02854
Std Dev 0.9993

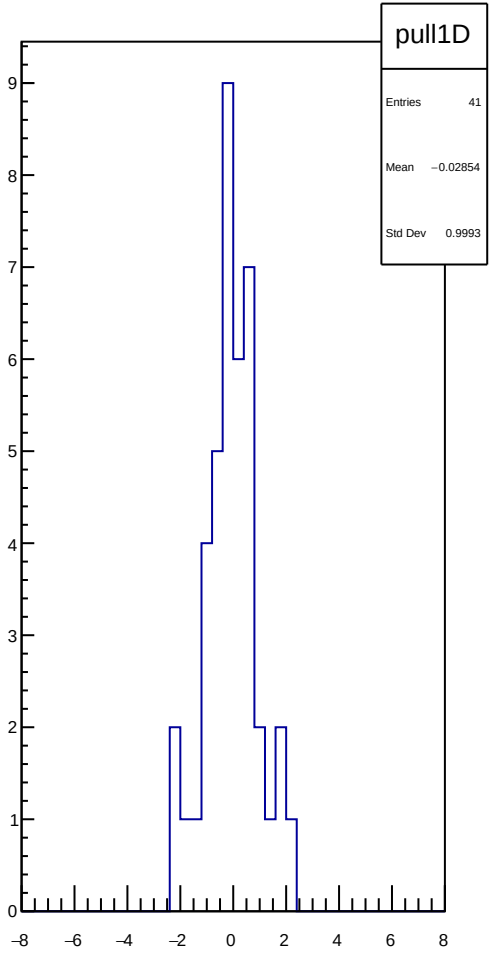

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 40
p0 169.6 ± 0.1926
280
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

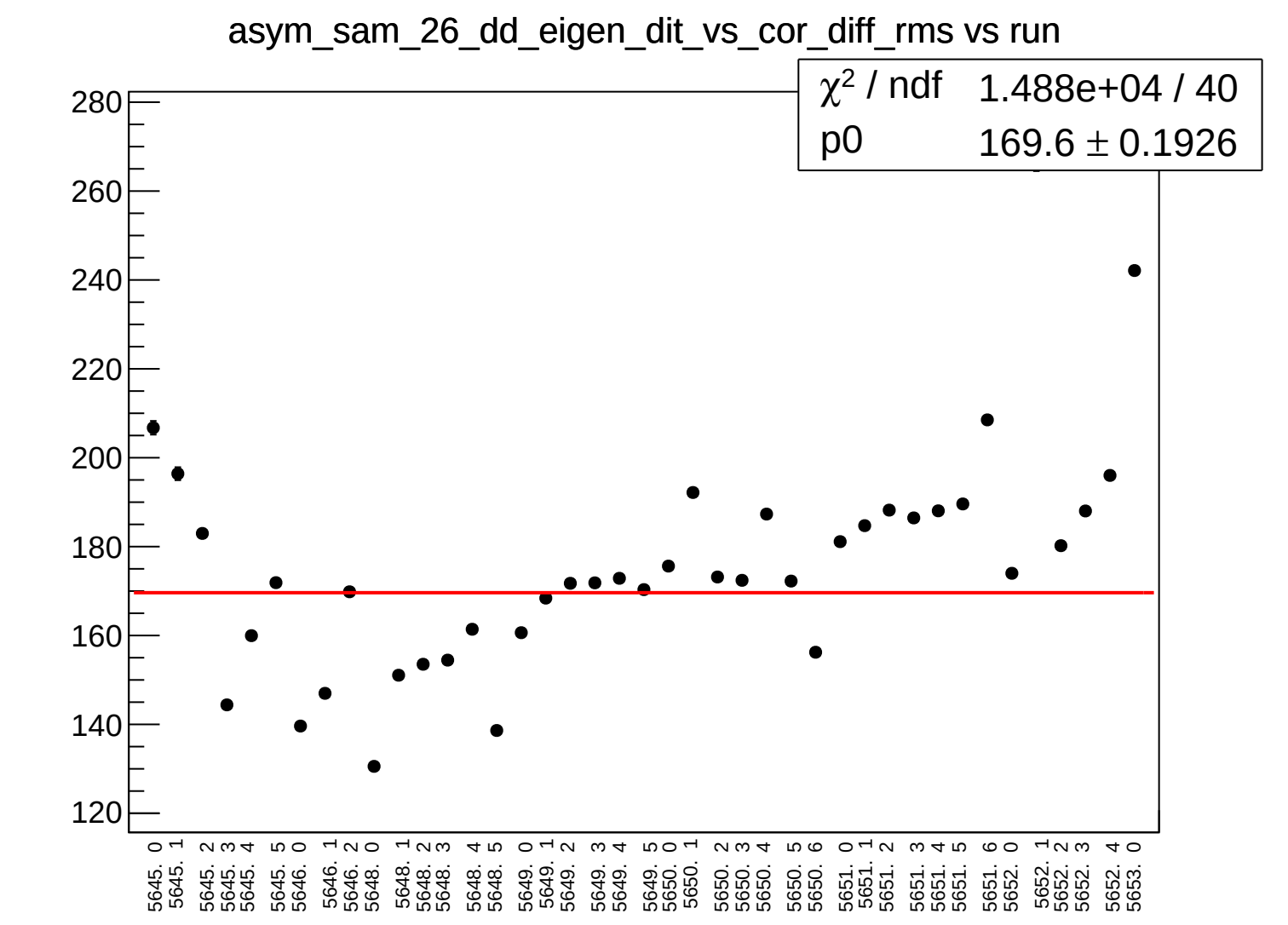

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.78 / 40
p0 −5.002e−06 ± 9.49e−06
pull
Entries 41
Mean −72.72
Std Dev 0

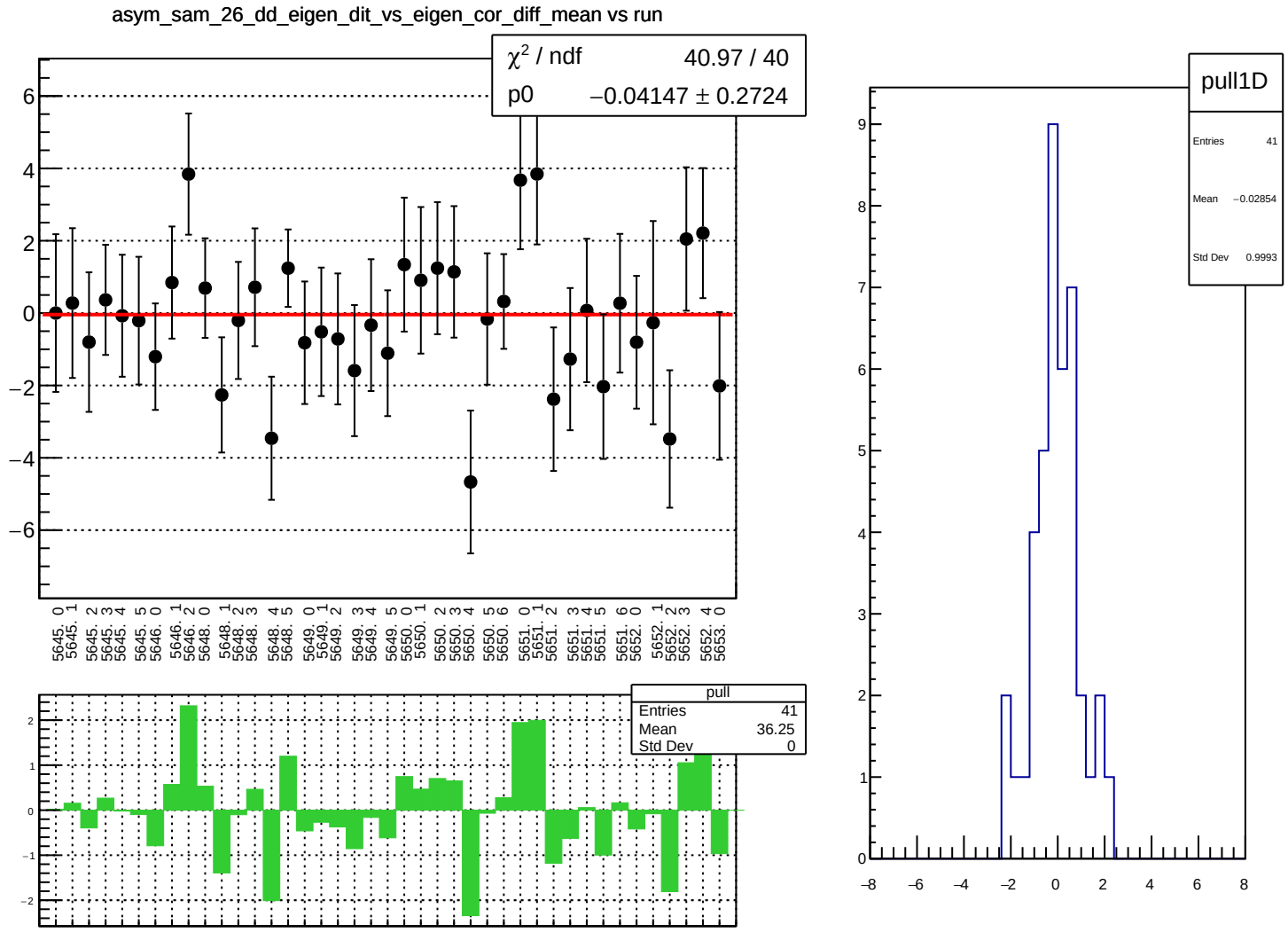

pull1D
Entries 41
Mean 0.008775
Std Dev 0.8804

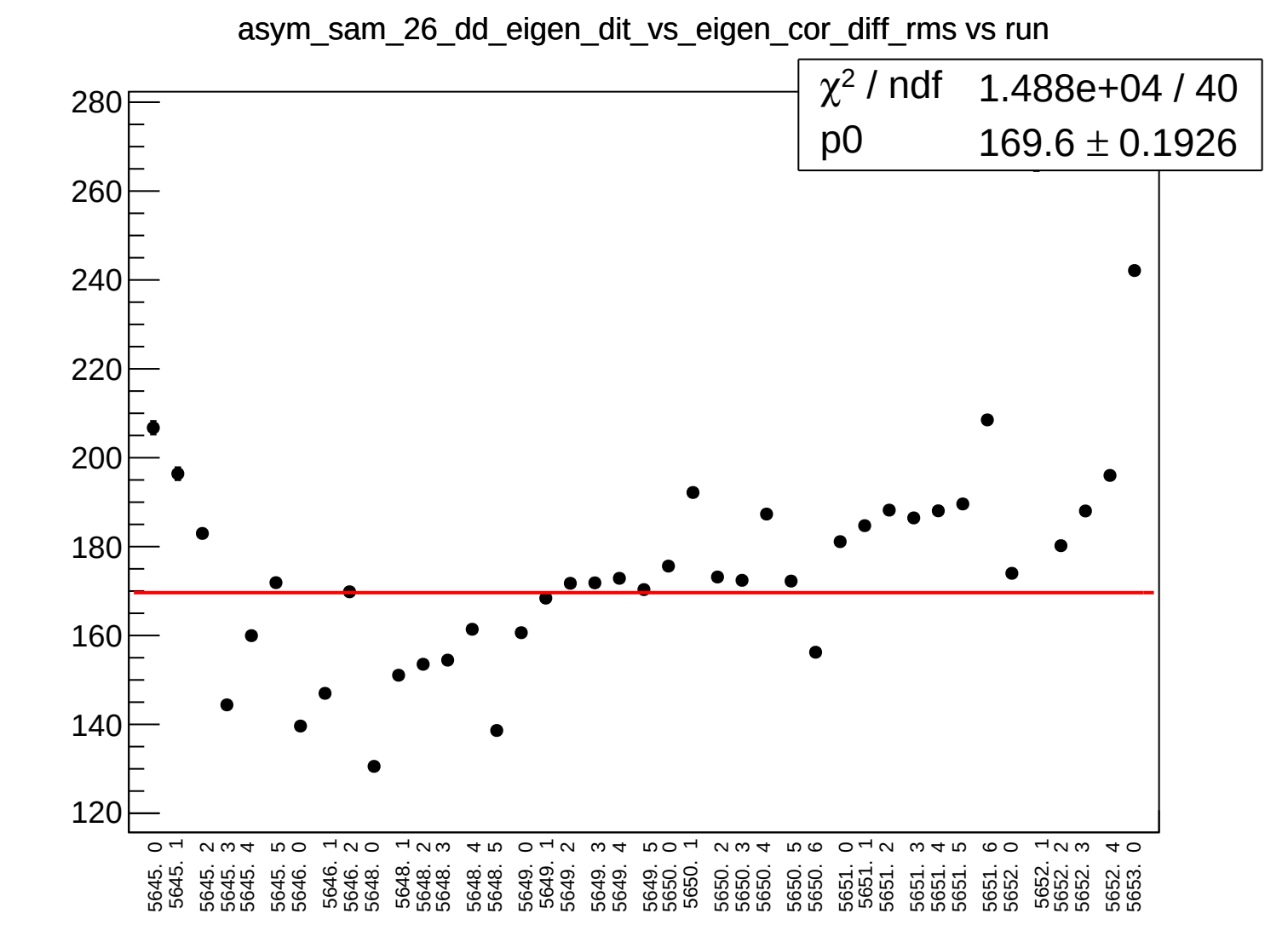

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1680 / 40
p0 0.00596 ± 6.711e–06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

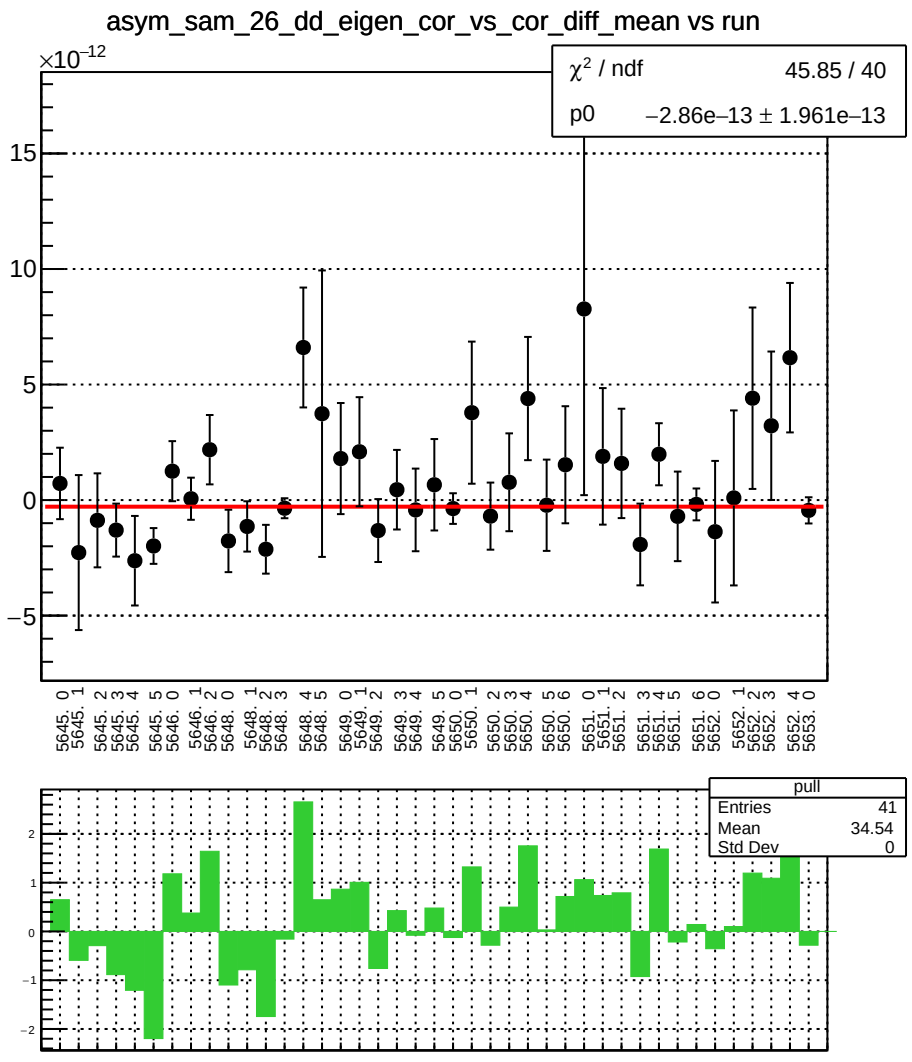

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.97 / 40
p0 −0.04147 ± 0.2724
pull
Entries 41
Mean 36.25
Std Dev 0

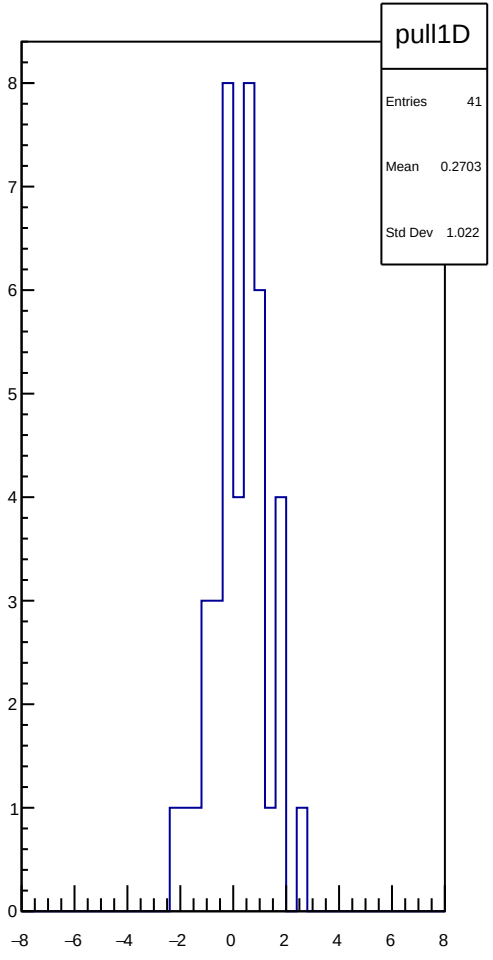

pull1D
Entries 41
Mean −0.02854
Std Dev 0.9993

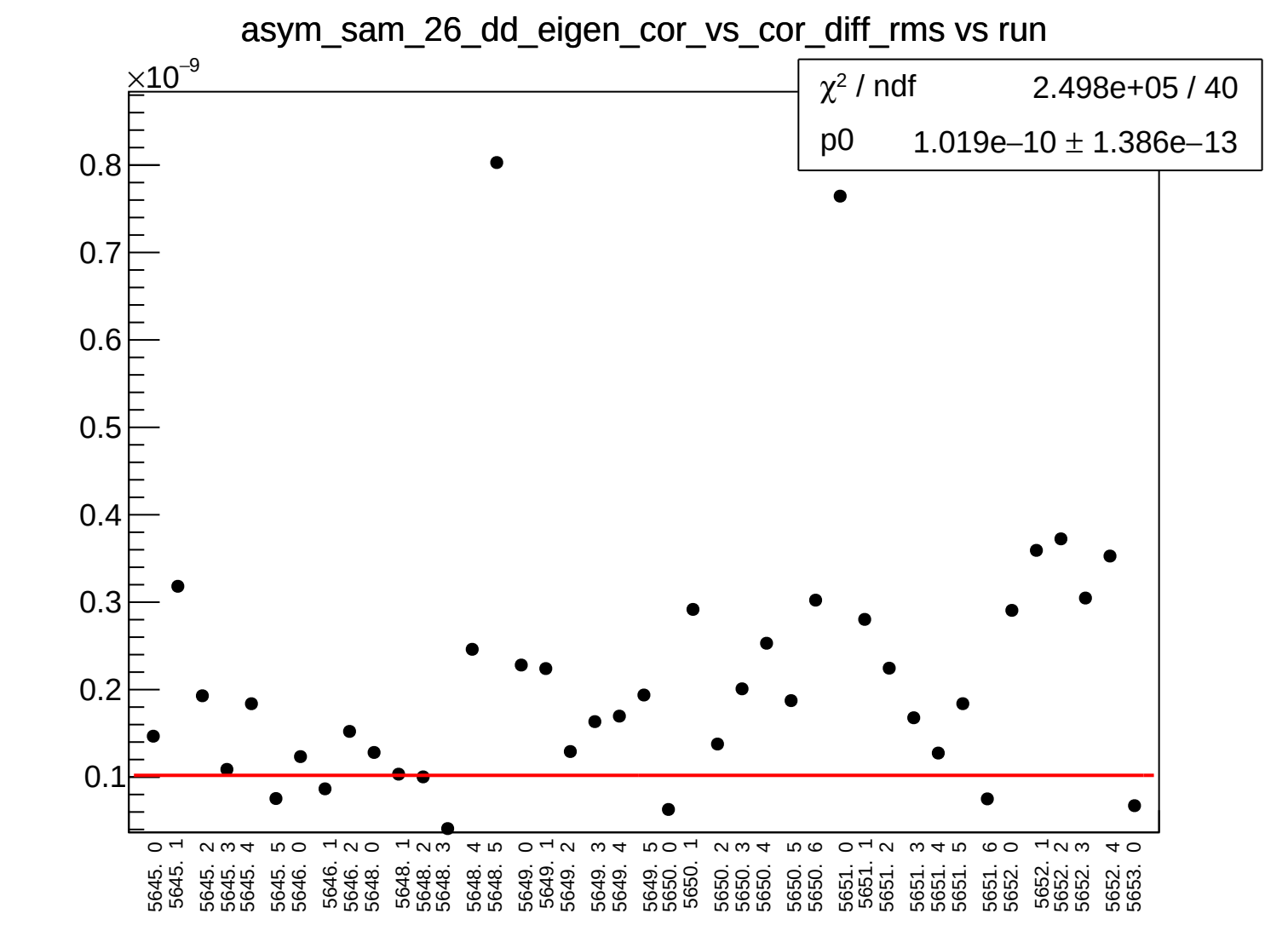

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 40
p0 169.6 ± 0.1926
280
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

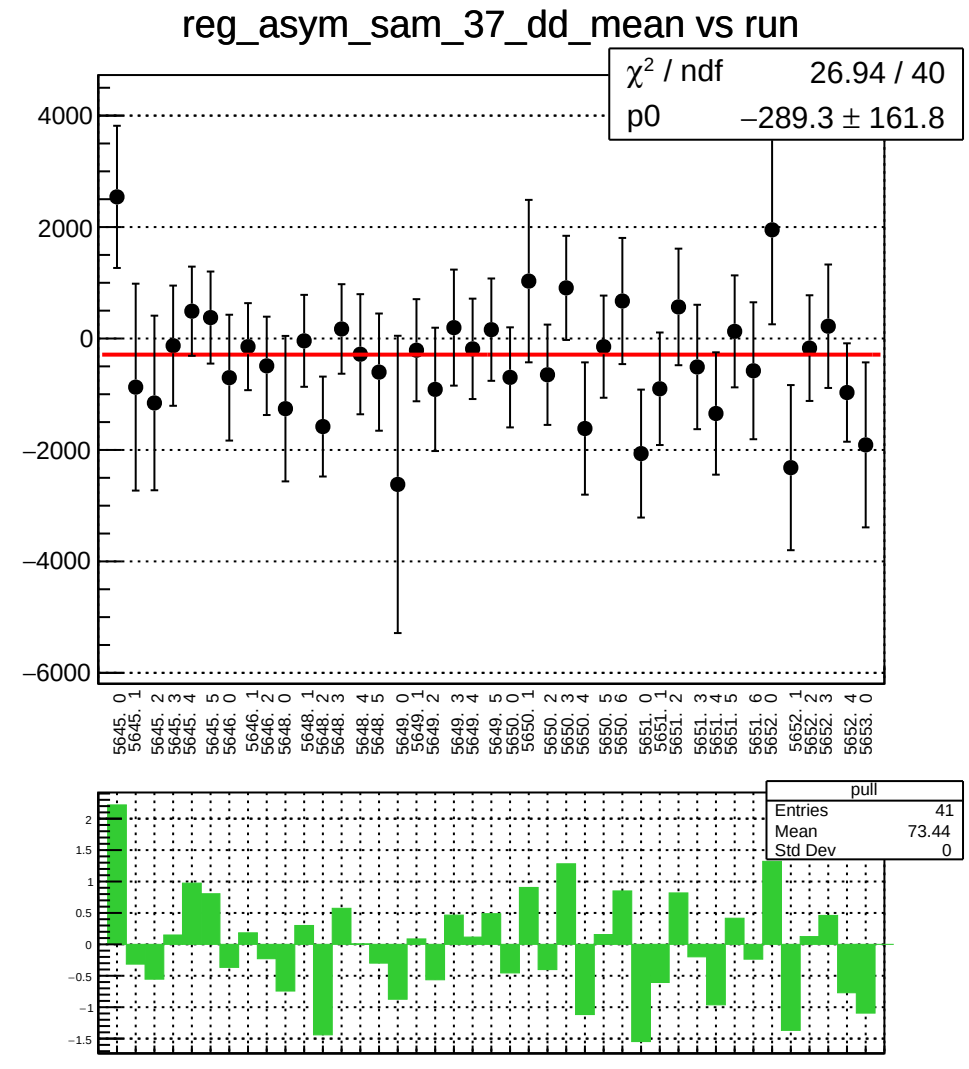

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.97 / 40
p0 −0.04147 ± 0.2724
pull
Entries 41
Mean 36.25
Std Dev 0
pull1D
Entries 41
Mean −0.02854
Std Dev 0.9993

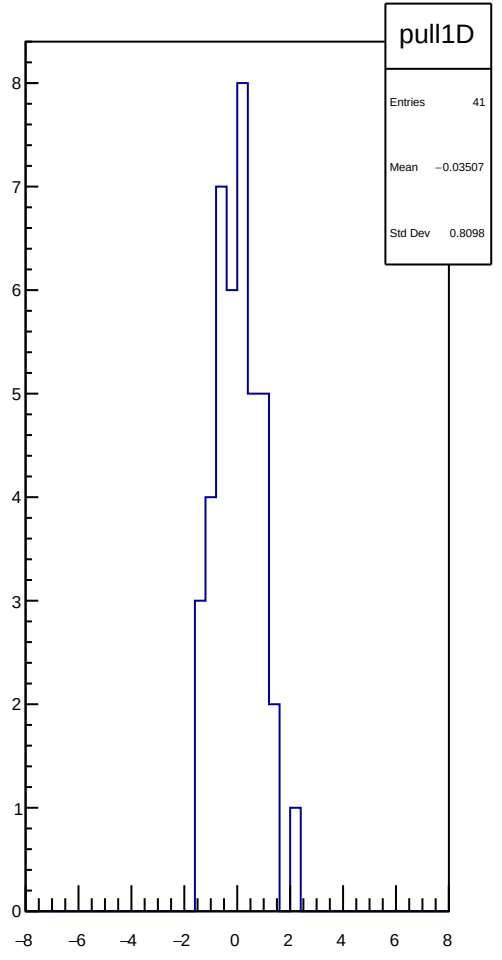

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.488e+04 / 40
p0 169.6 ± 0.1926
280
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

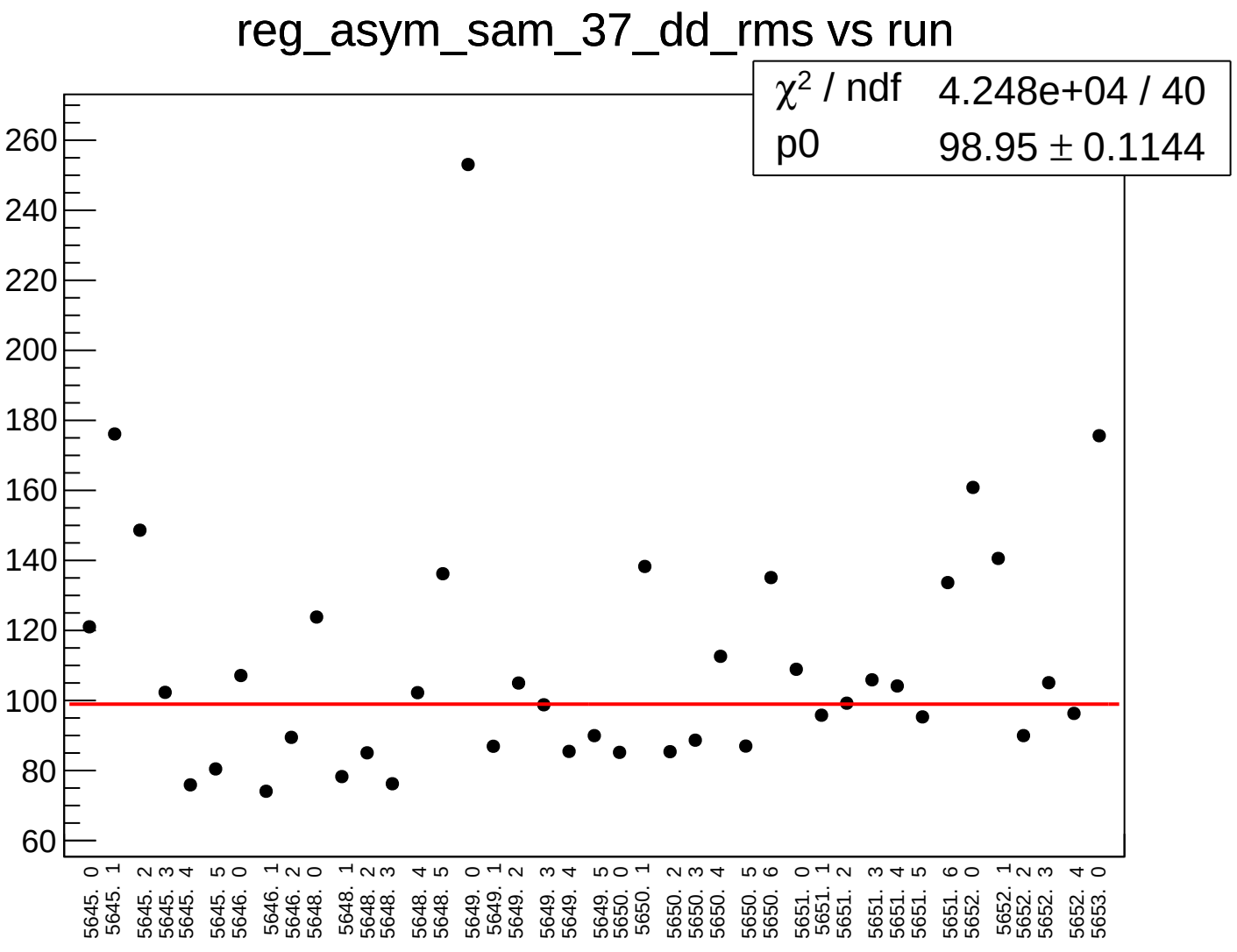

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.85 / 40
p0 −2.86e−13 ± 1.961e−13
15
10
5
0
−5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.54
Std Dev 0
2
1
0
−1
−2

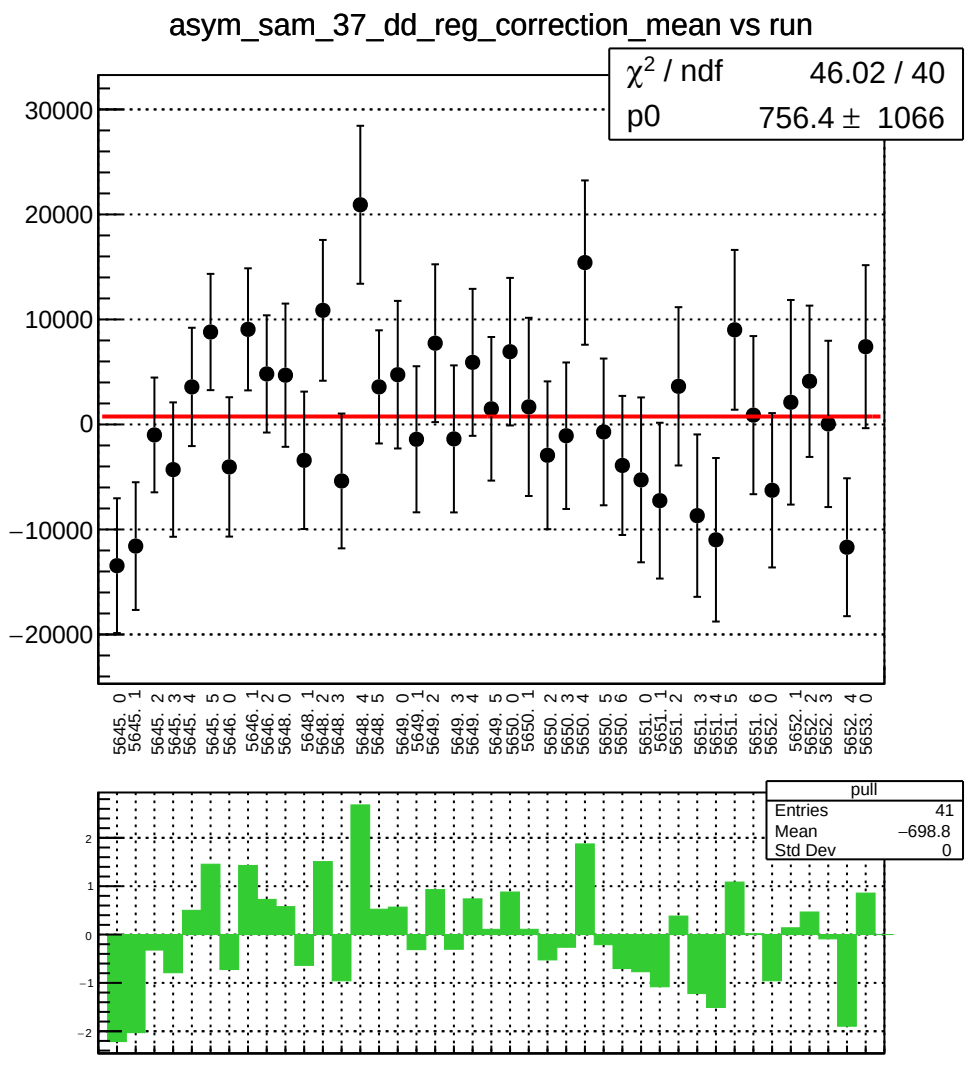

pull1D
Entries 41
Mean 0.2703
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

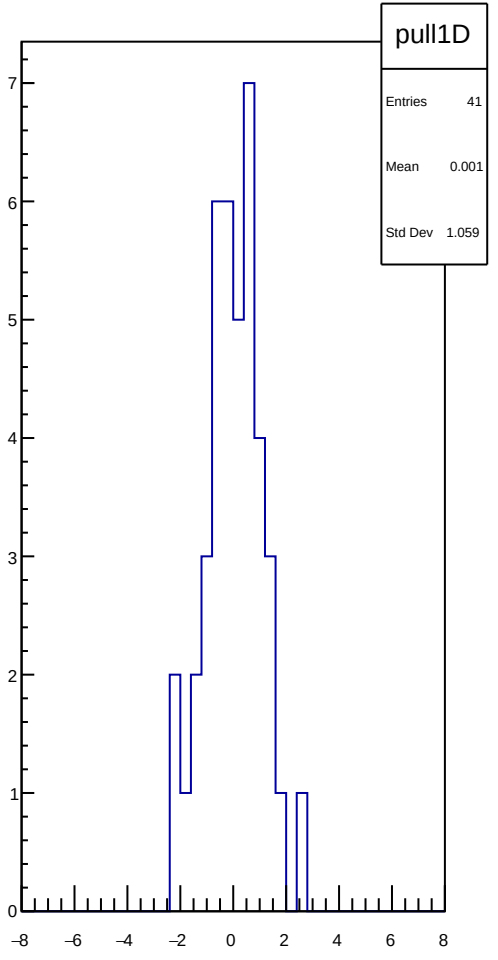

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.498e+05 / 40
p0 1.019e−10 ± 1.386e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

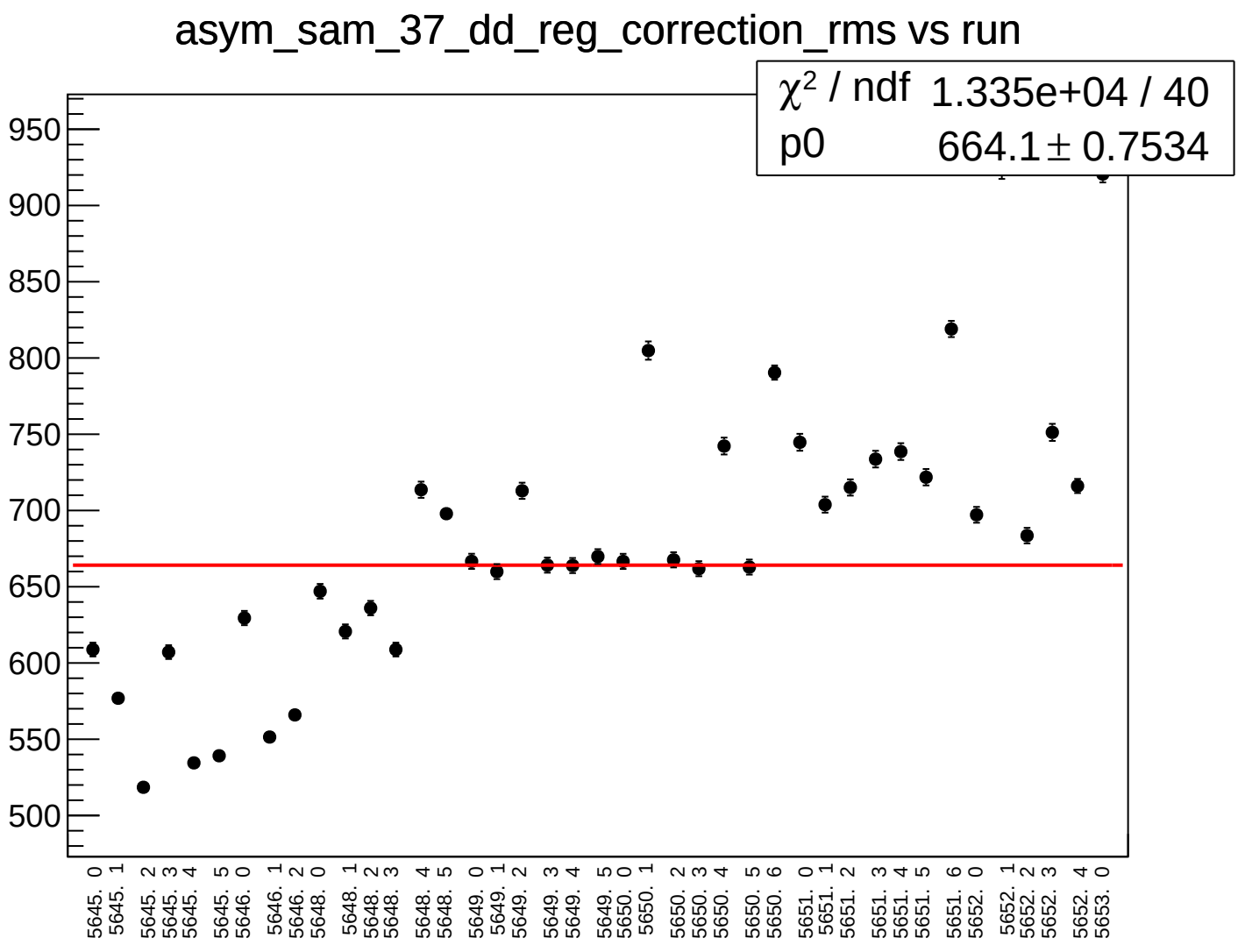

reg_asym_sam_37_dd_mean vs run
χ² / ndf 26.94 / 40
p0 −289.3 ± 161.8
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

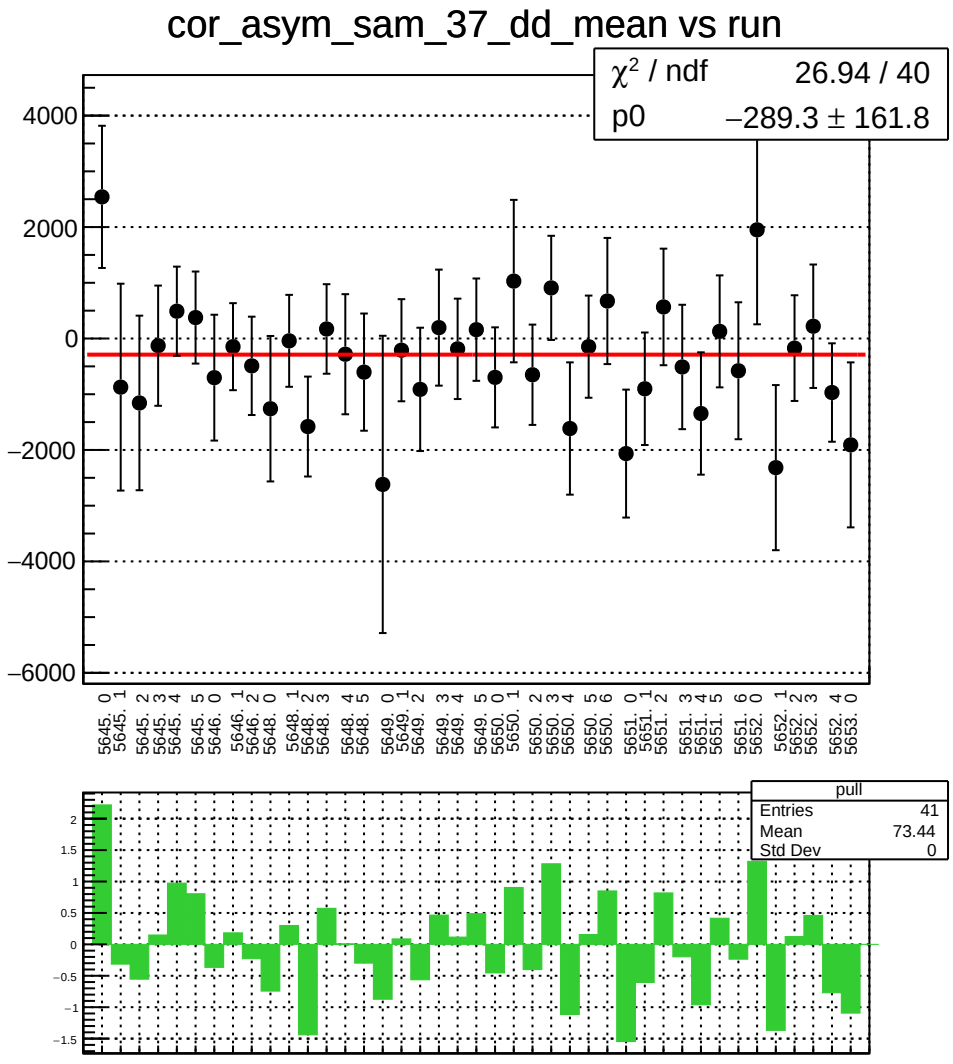

pull1D
Entries 41
Mean −0.03507
Std Dev 0.8098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

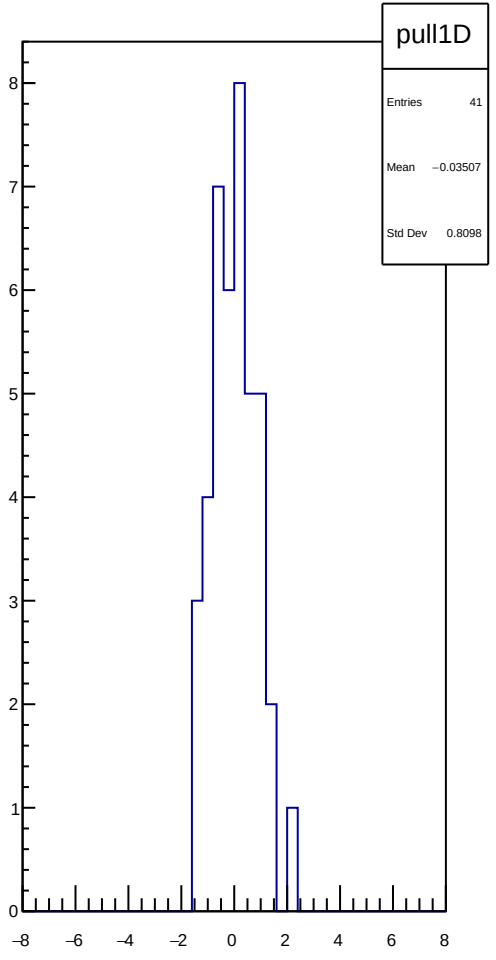

reg_asym_sam_37_dd_rms vs run
χ² / ndf 4.248e+04 / 40
p0 98.95 ± 0.1144
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

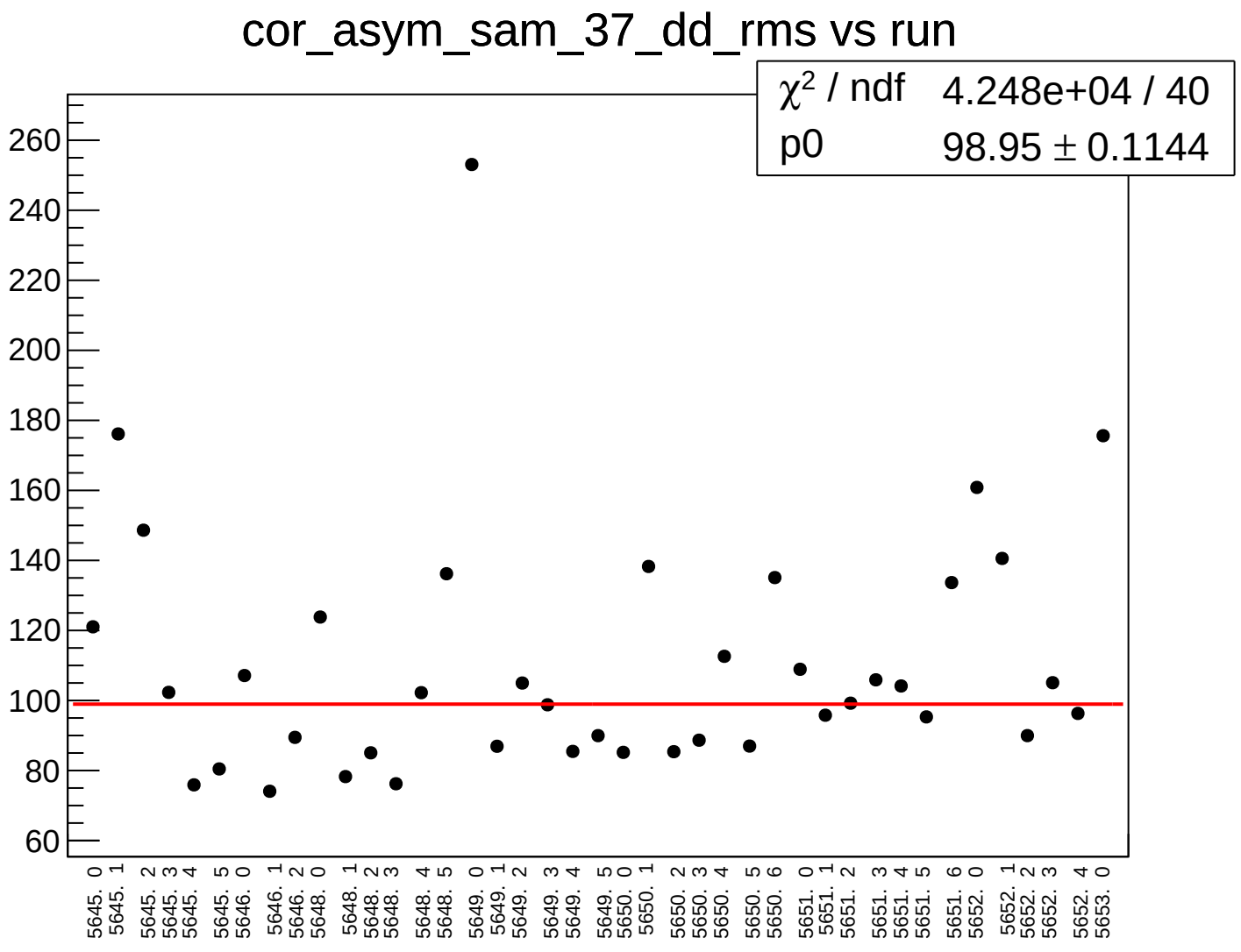

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 46.02 / 40
p0 756.4 ± 1066
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −698.8
Std Dev 0
2
1
0
−1
−2

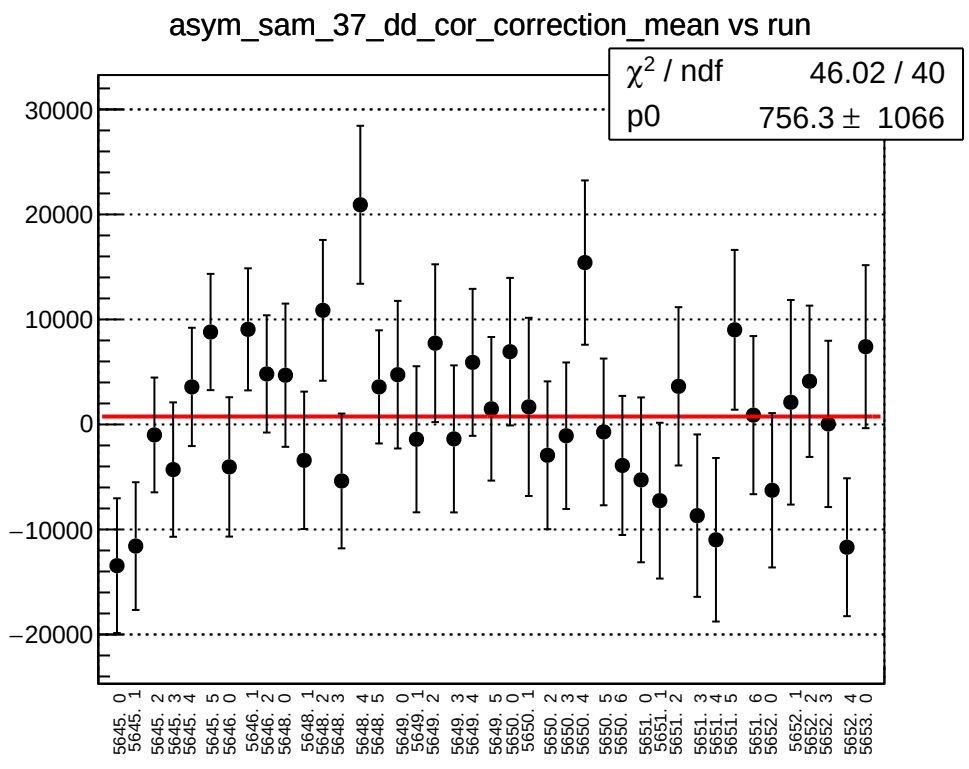

pull1D
Entries 41
Mean 0.001
Std Dev 1.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

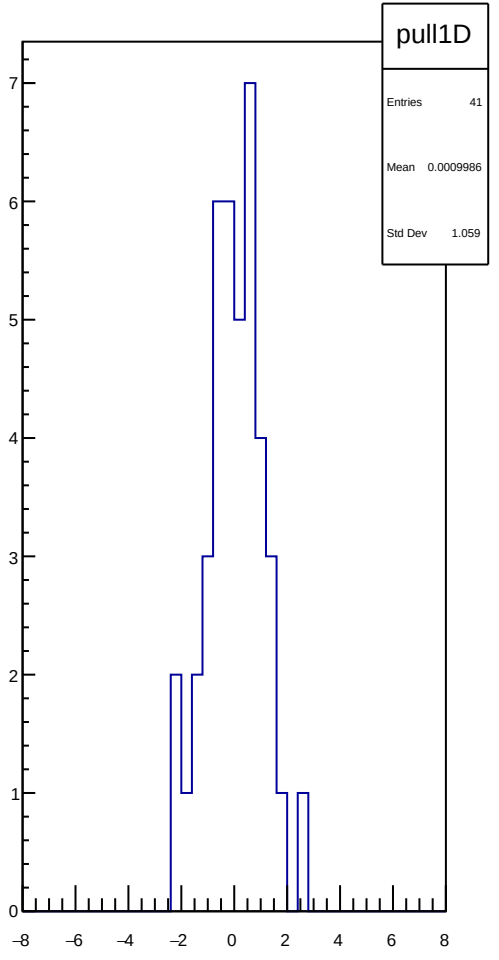

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.335e+04 / 40
p0 664.1 ± 0.7534
950
900
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

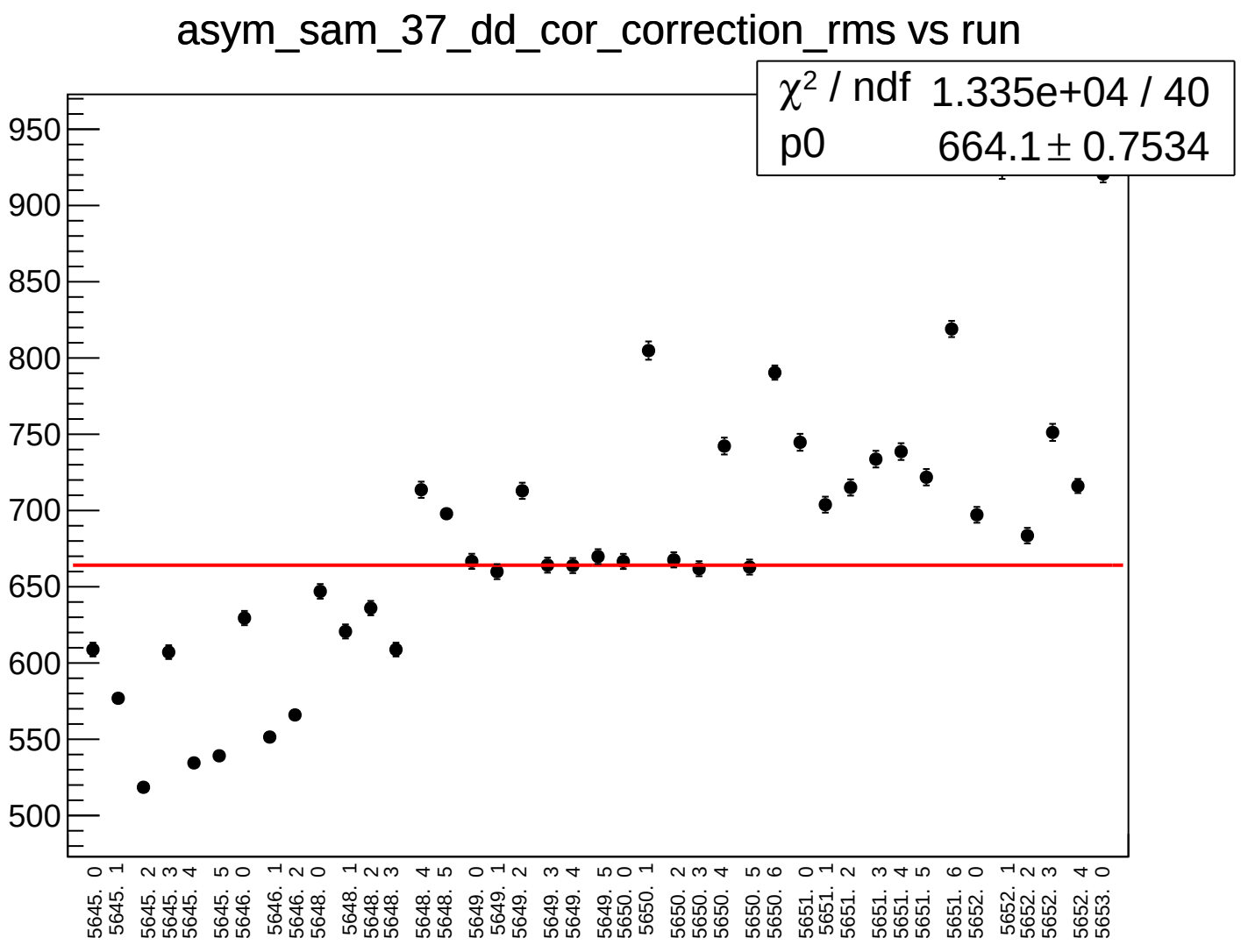

cor_asym_sam_37_dd_mean vs run
χ² / ndf 26.94 / 40
p0 −289.3 ± 161.8
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

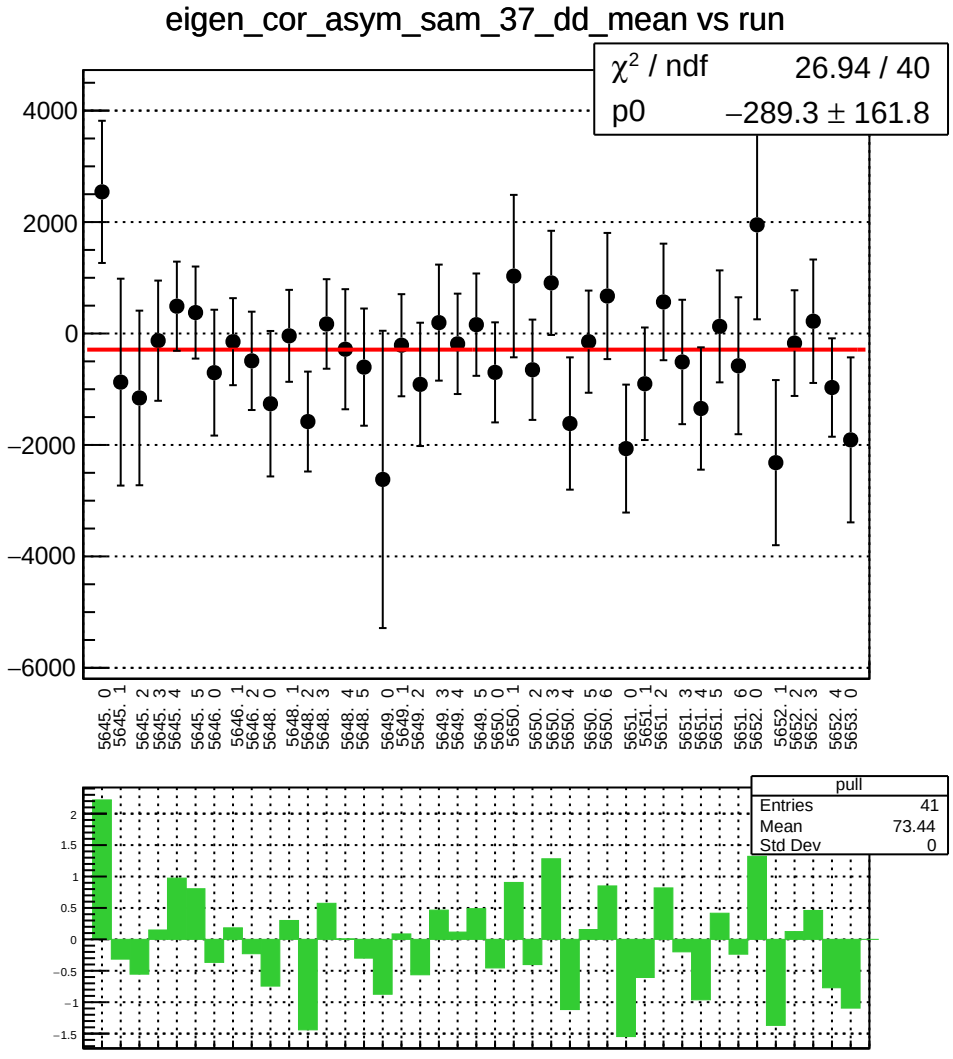

pull1D
Entries 41
Mean −0.03507
Std Dev 0.8098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

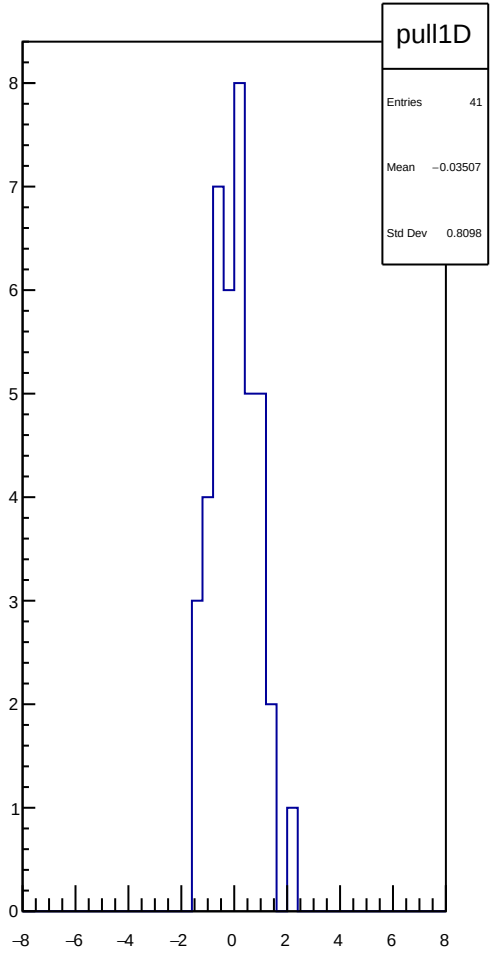

cor_asym_sam_37_dd_rms vs run
χ² / ndf 4.248e+04 / 40
p0 98.95 ± 0.1144
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

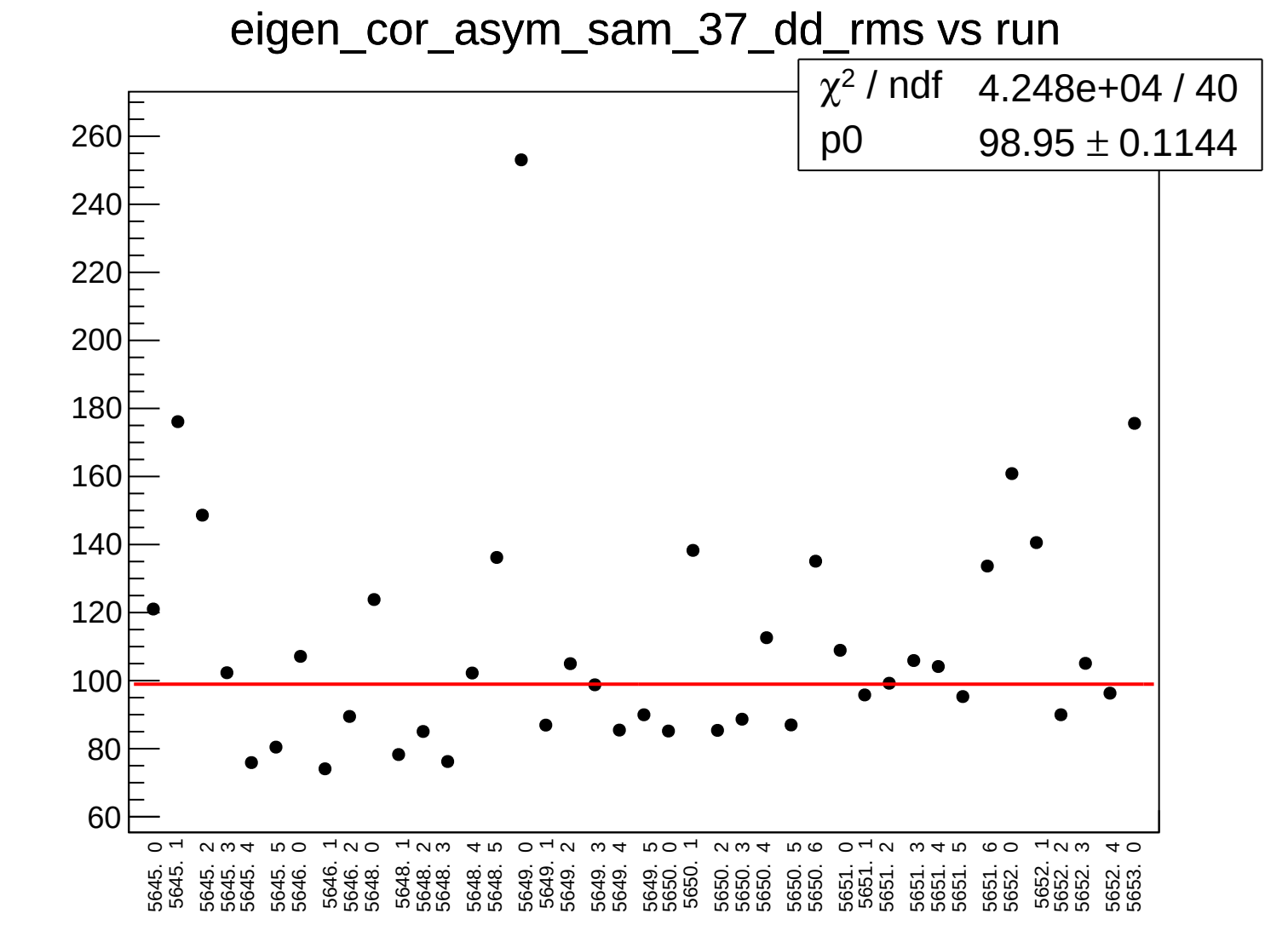

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 46.02 / 40
p0 756.3 ± 1066
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −699.8
Std Dev 0
2
1
0
−1
−2

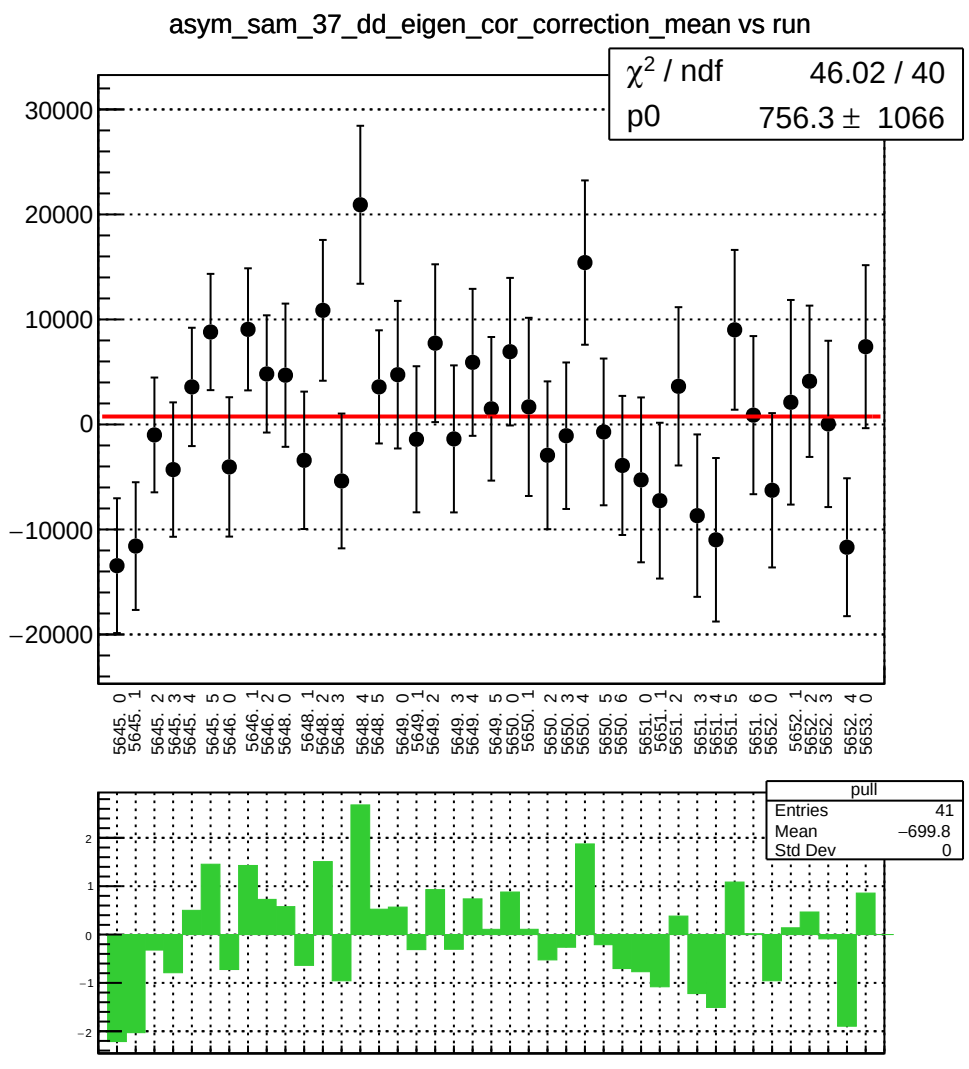

pull1D
Entries 41
Mean 0.0009986
Std Dev 1.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

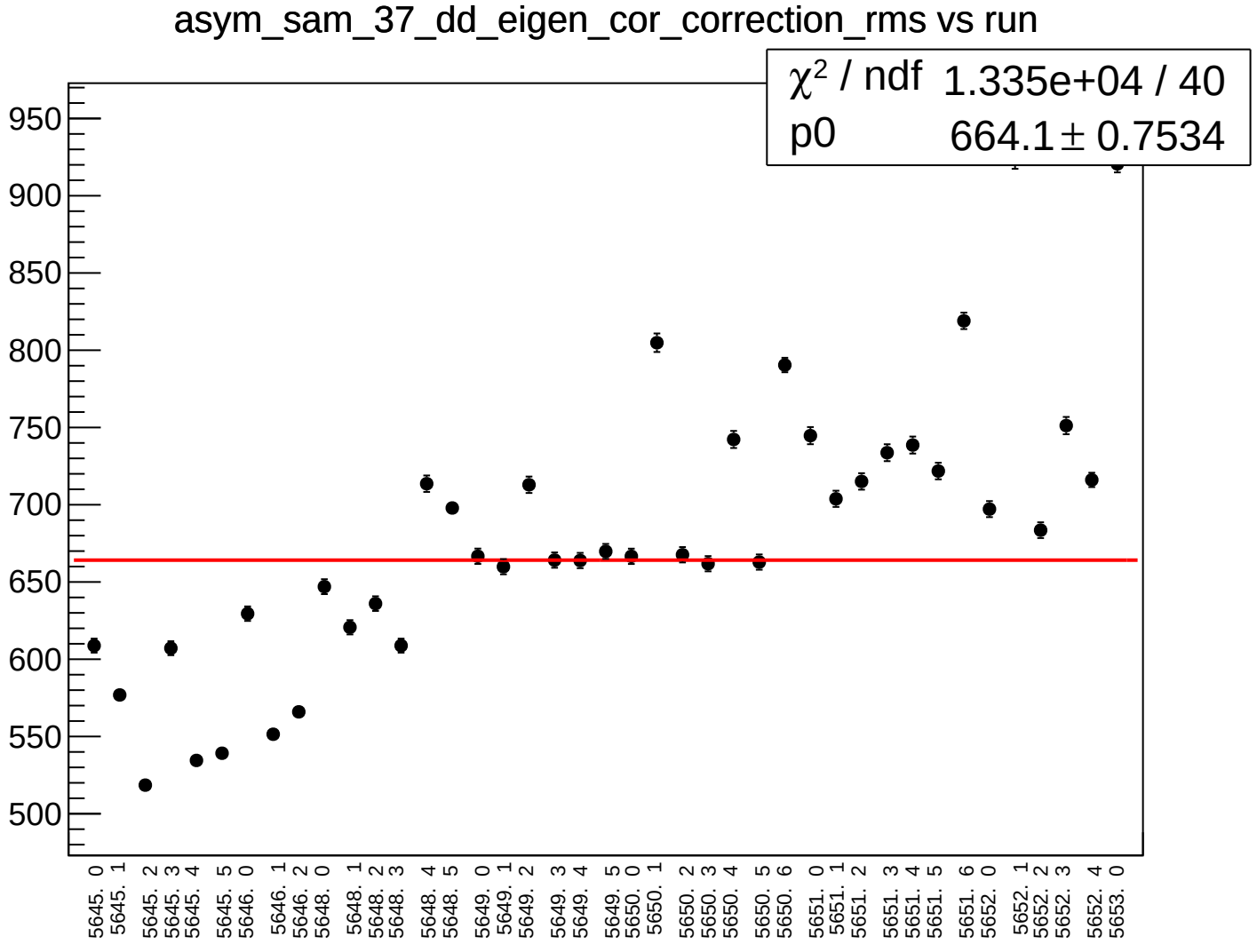

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.335e+04 / 40
p0 664.1 ± 0.7534
950
900
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

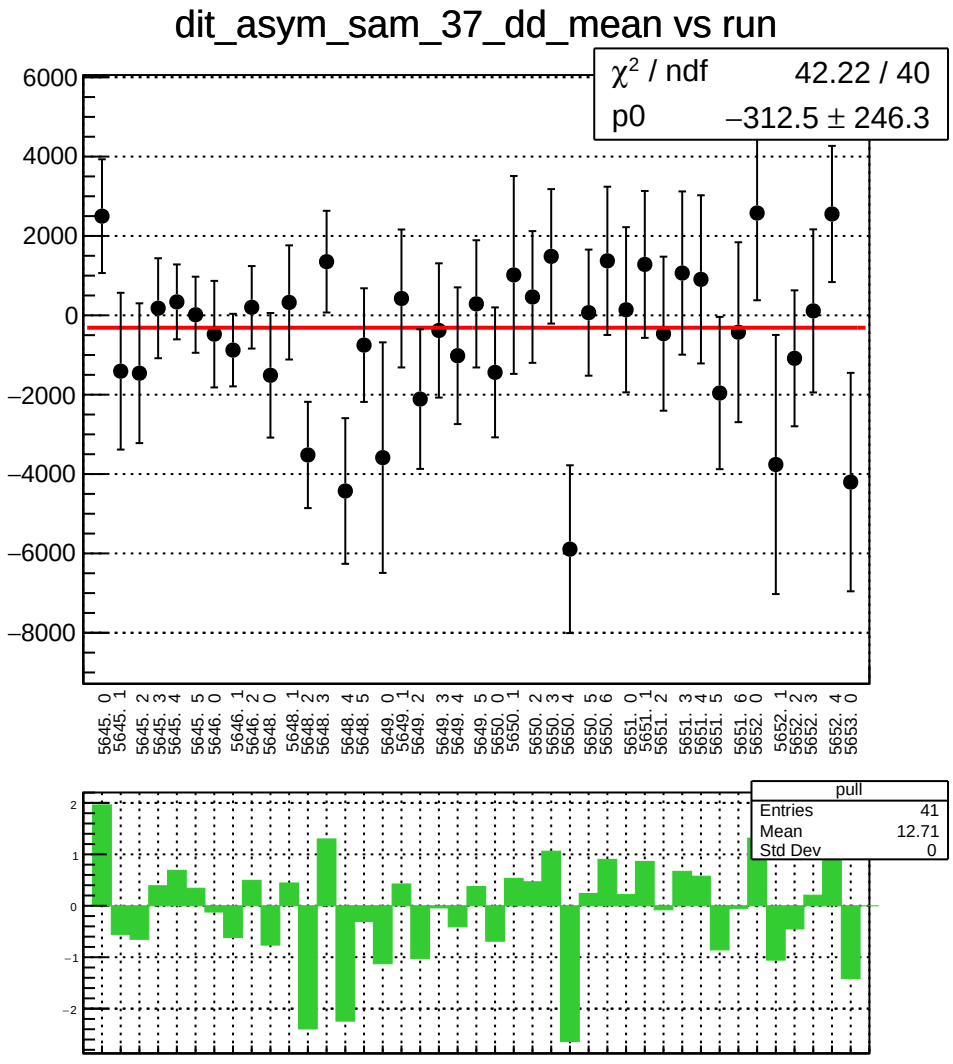

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 26.94 / 40
p0 −289.3 ± 161.8
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

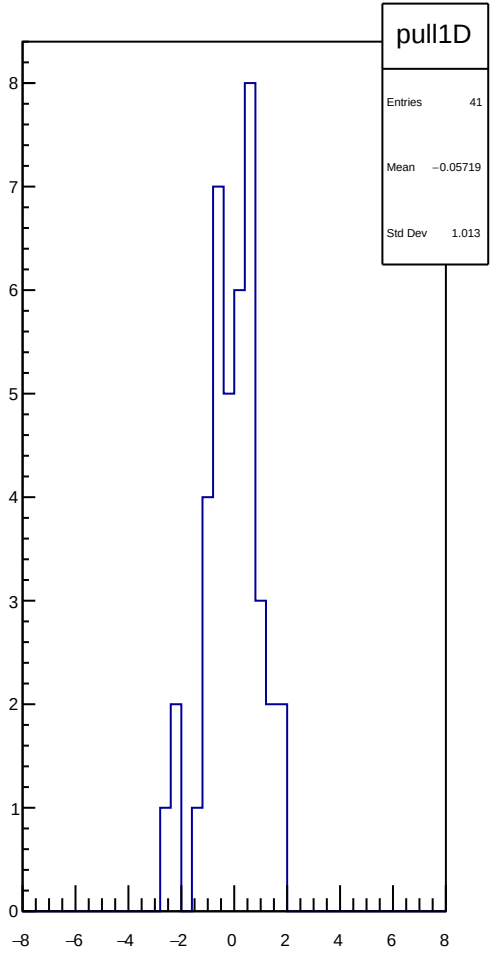

pull1D
Entries 41
Mean −0.03507
Std Dev 0.8098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

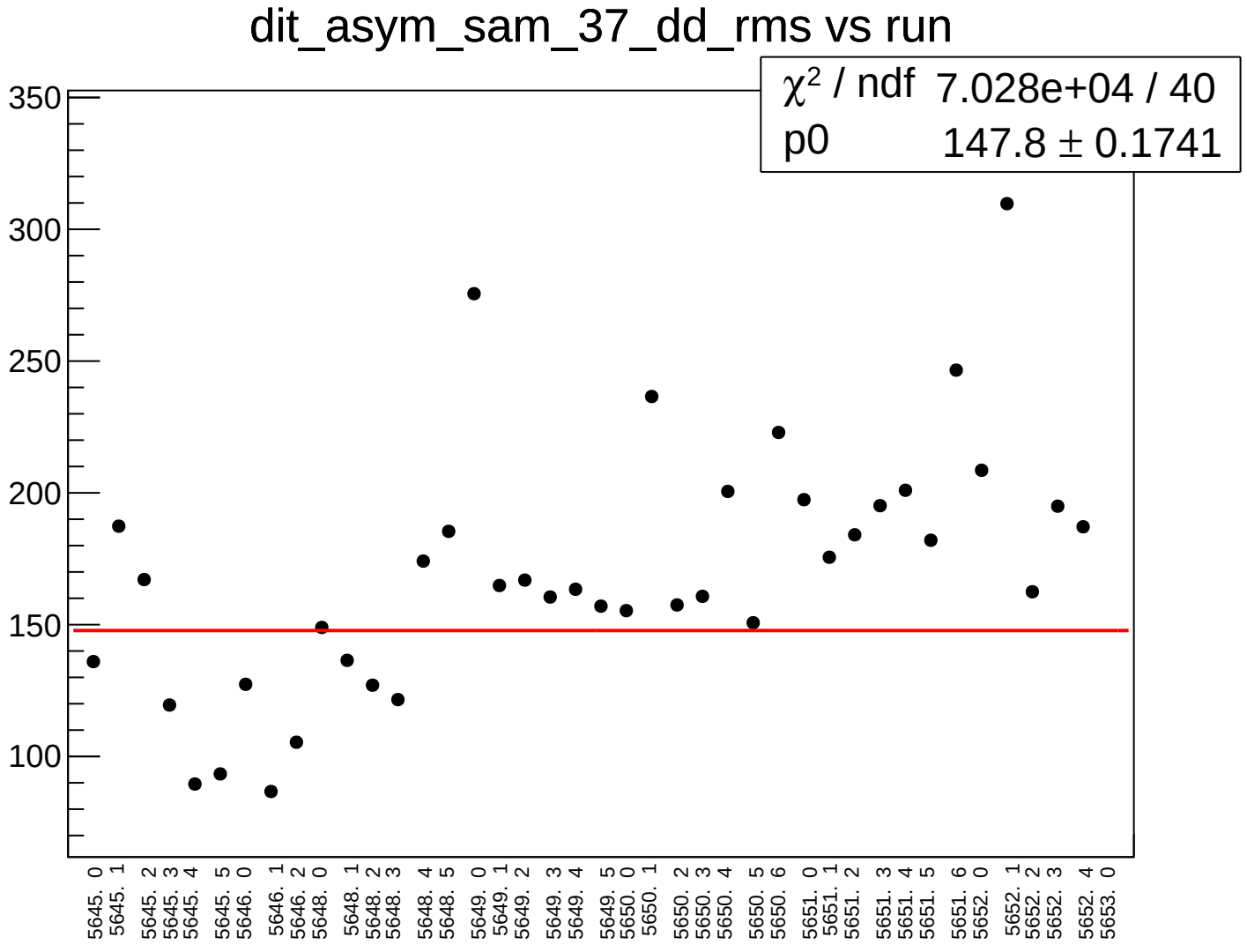

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 4.248e+04 / 40
p0 98.95 ± 0.1144
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

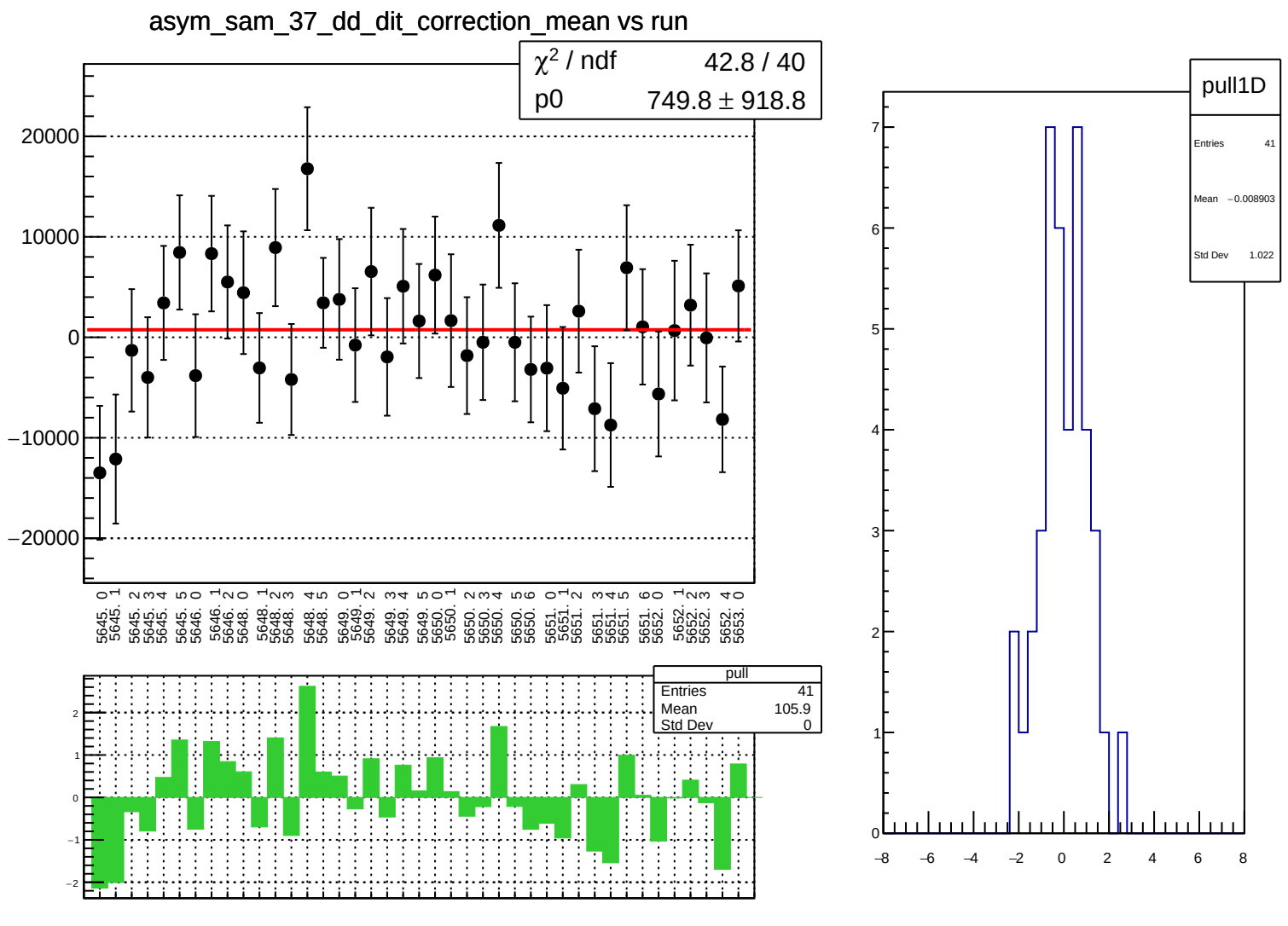

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.02 / 40
p0 756.3 ± 1066
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −699.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0009986
Std Dev 1.059
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

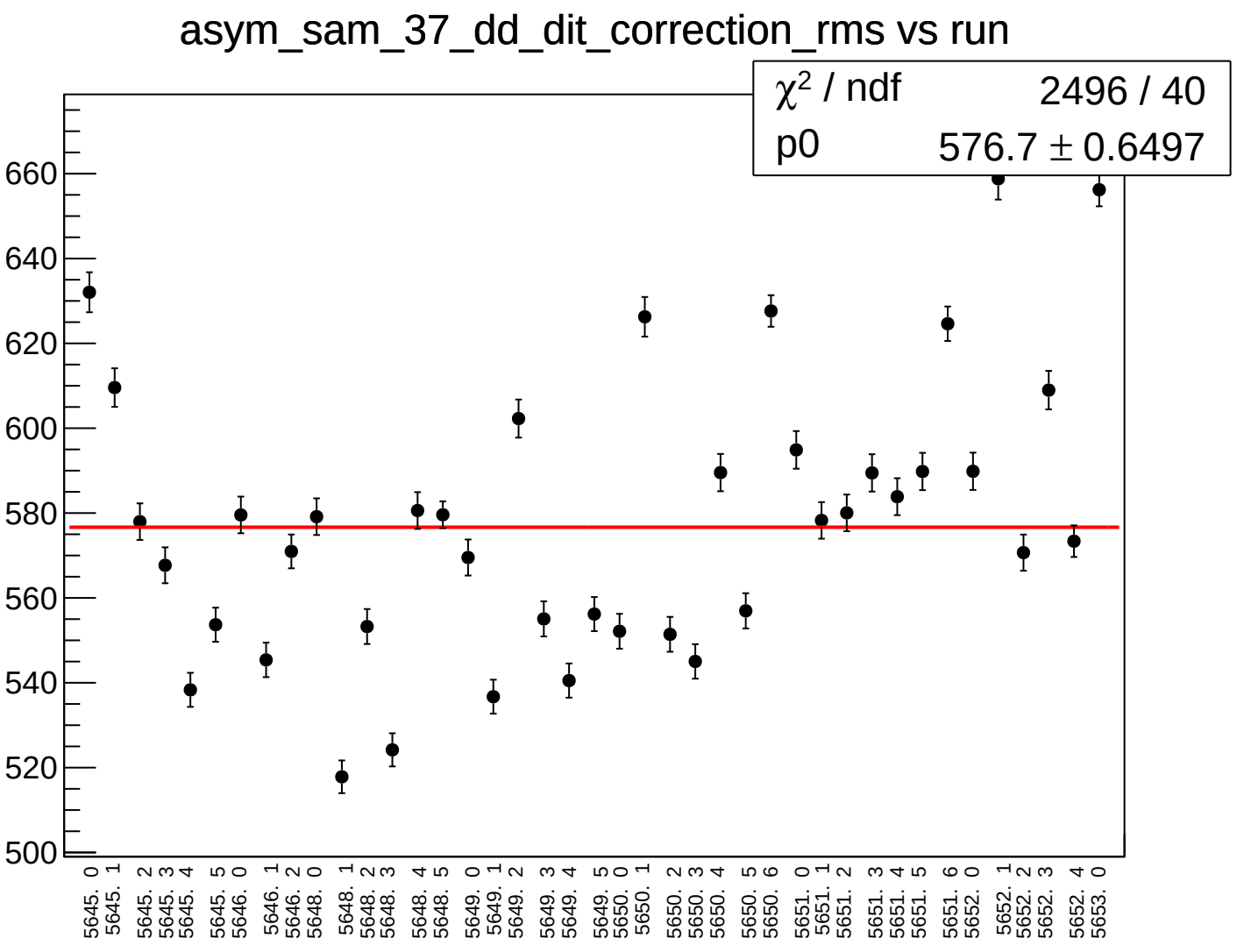

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.335e+04 / 40
p0 664.1 ± 0.7534
950
900
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

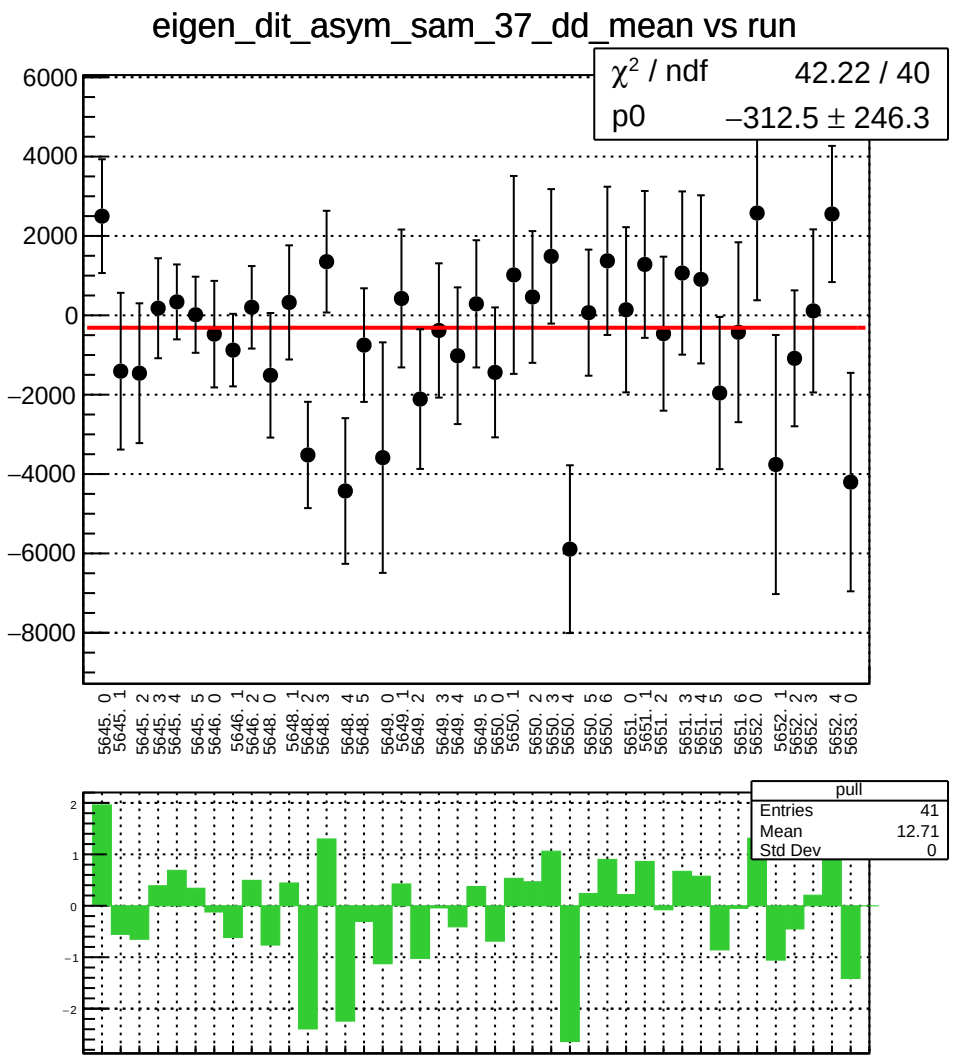

dit_asym_sam_37_dd_mean vs run
χ² / ndf 42.22 / 40
p0 −312.5 ± 246.3
pull
Entries 41
Mean 12.71
Std Dev 0

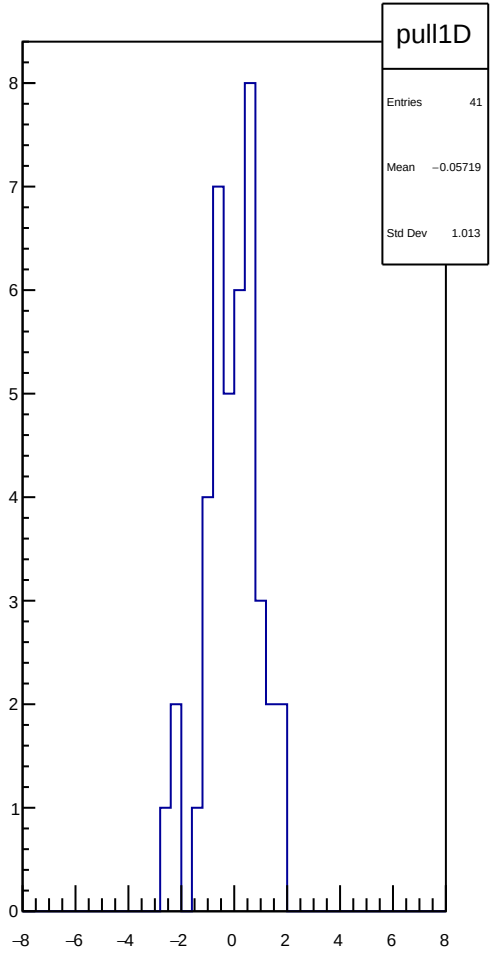

pull1D
Entries 41
Mean −0.05719
Std Dev 1.013

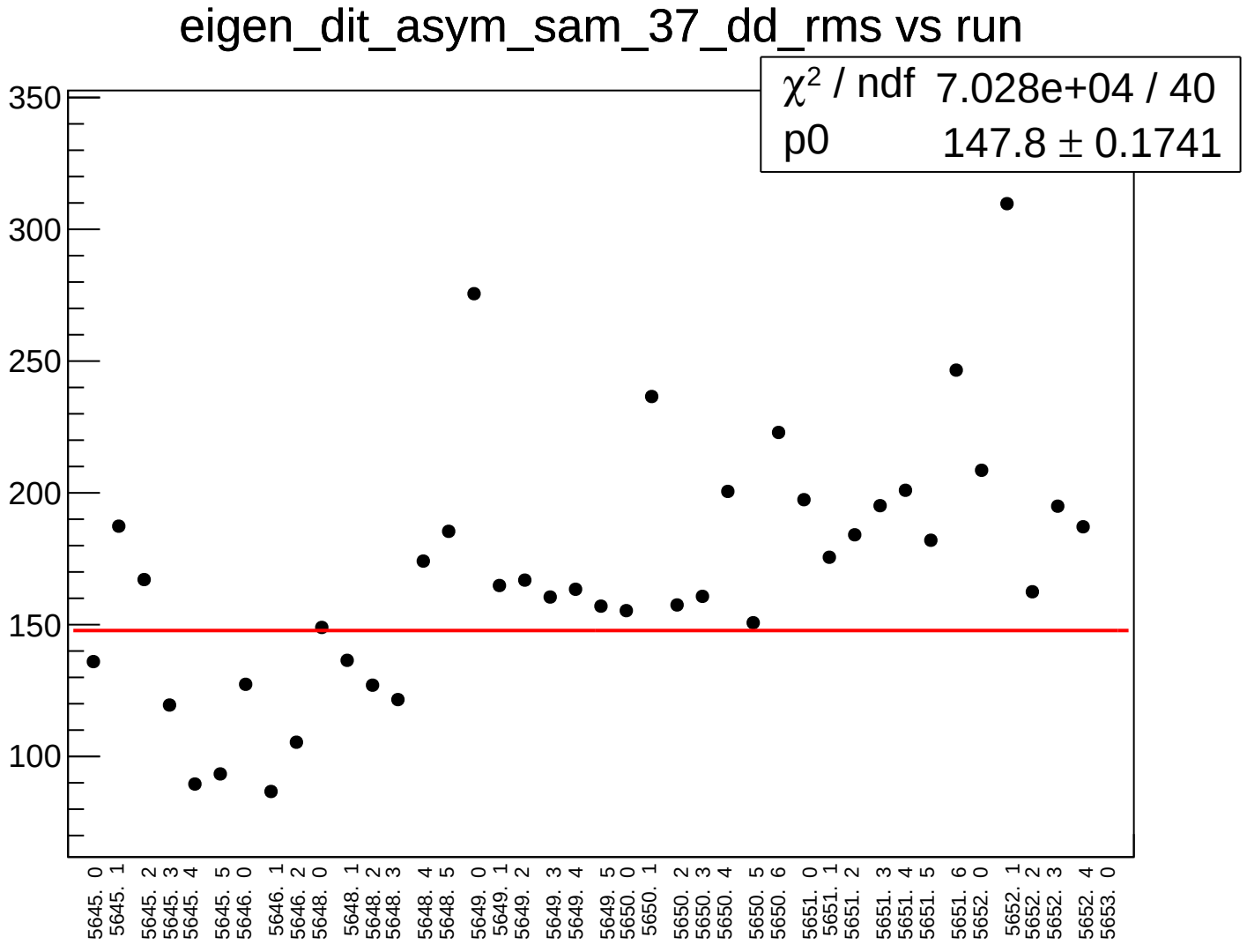

dit_asym_sam_37_dd_rms vs run
χ² / ndf 7.028e+04 / 40
p0 147.8 ± 0.1741
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

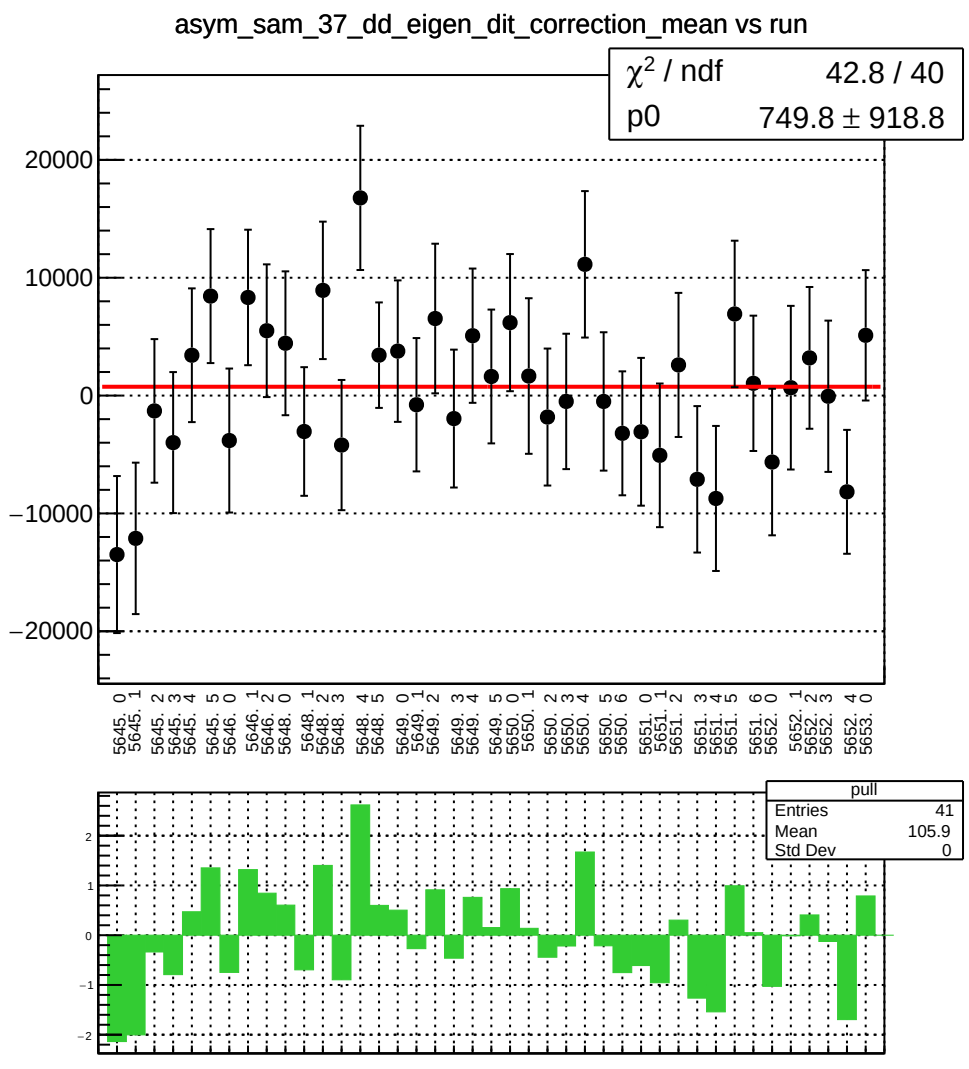

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 42.8 / 40
p0 749.8 ± 918.8
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 105.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.008903
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

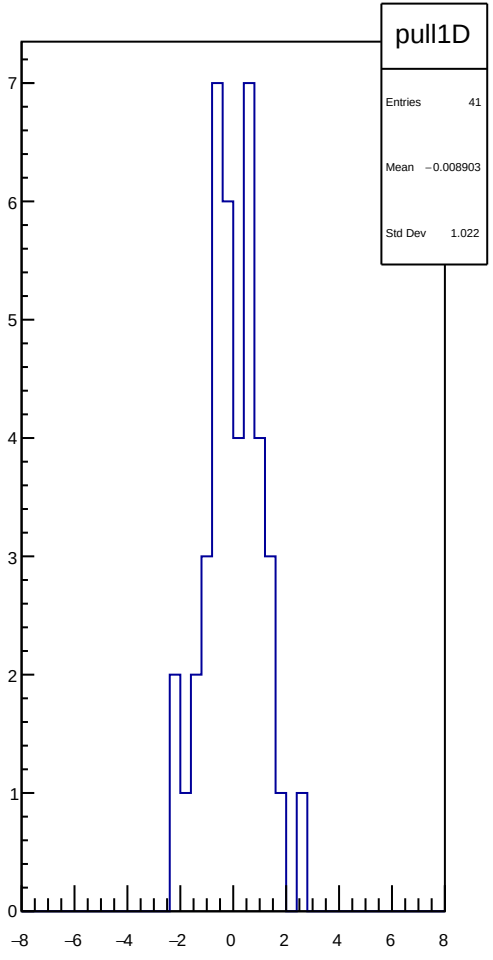

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2496 / 40
p0 576.7 ± 0.6497
660
640
620
600
580
560
540
520
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

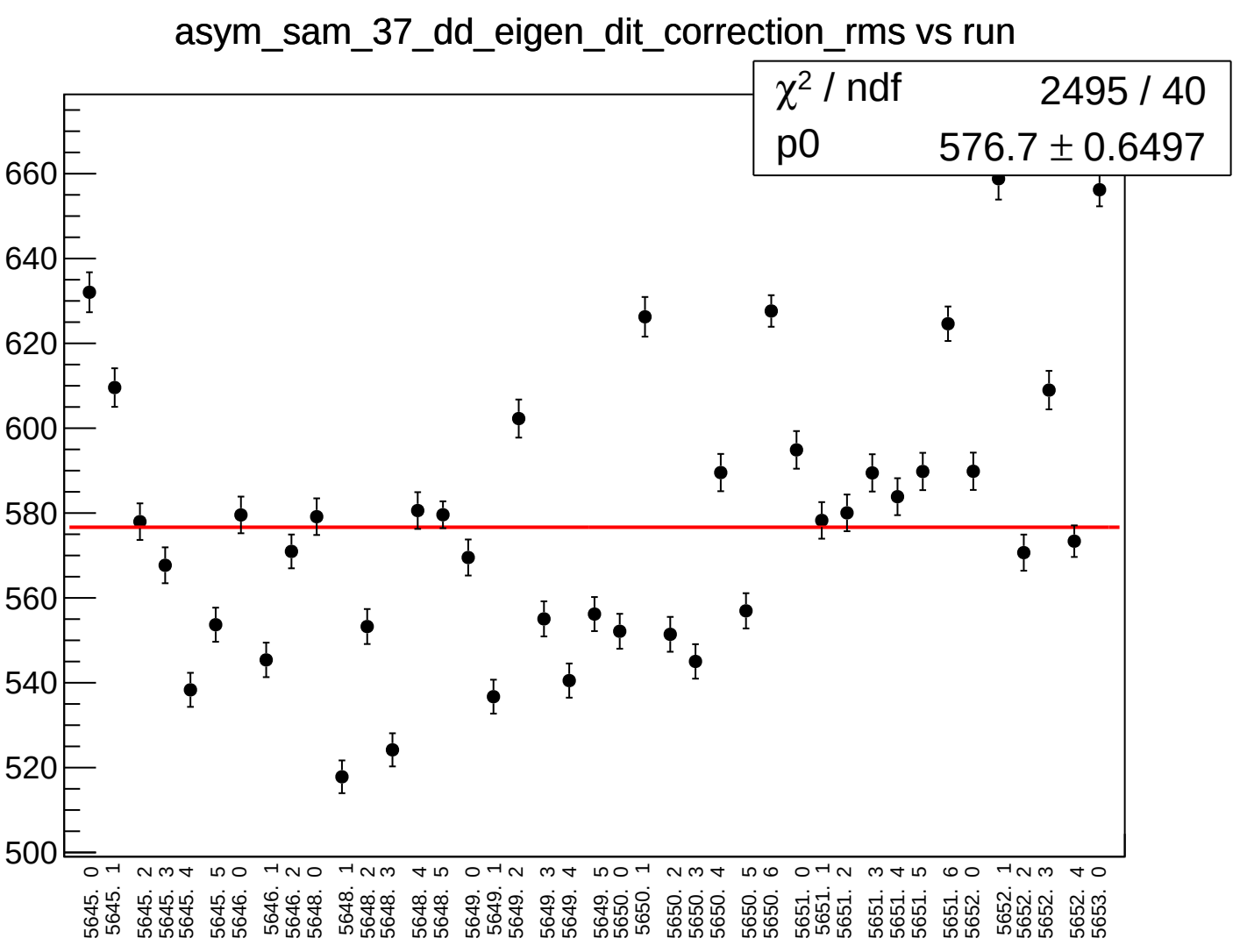

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 42.22 / 40
p0 −312.5 ± 246.3
pull
Entries 41
Mean 12.71
Std Dev 0

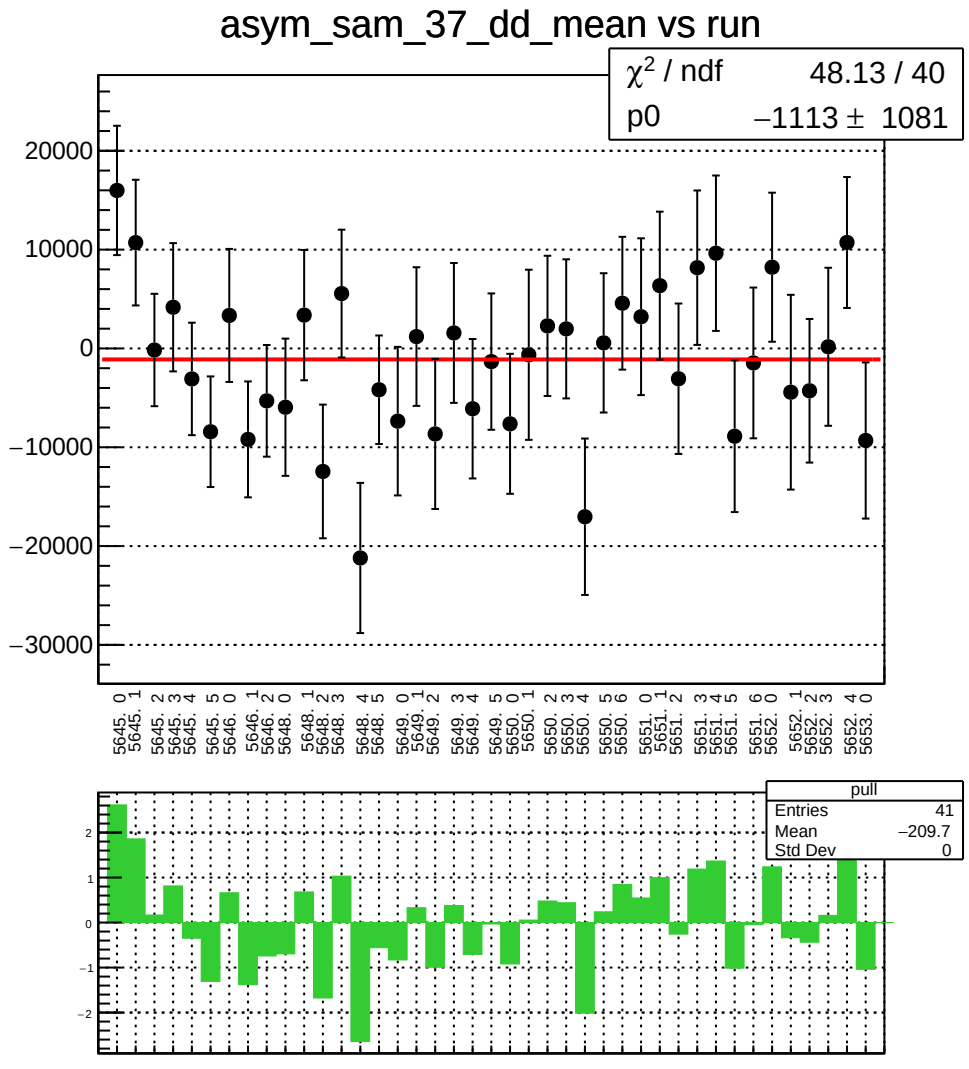

pull1D
Entries 41
Mean −0.05719
Std Dev 1.013

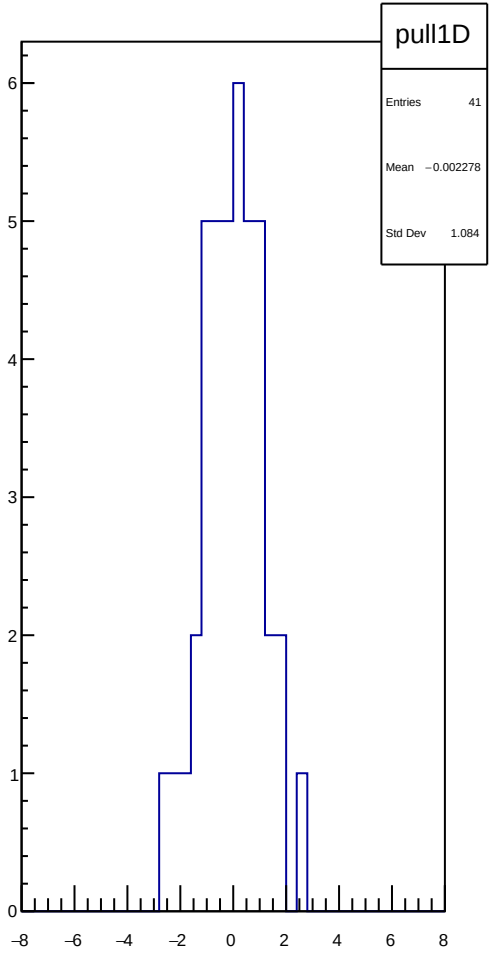

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 7.028e+04 / 40
p0 147.8 ± 0.1741
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

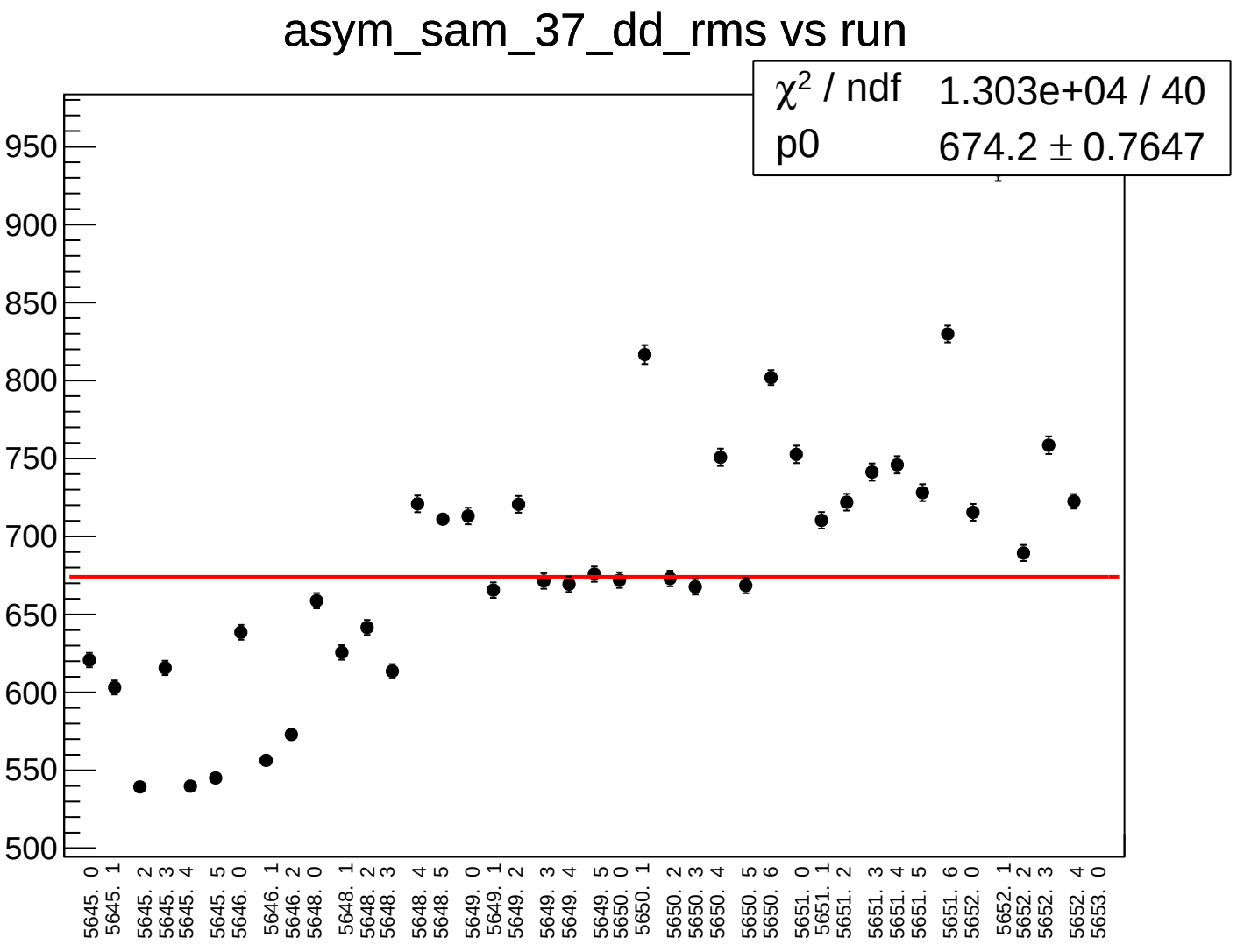

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 42.8 / 40
p0 749.8 ± 918.8
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 105.9
Std Dev 0
2
1
0
−1
−2

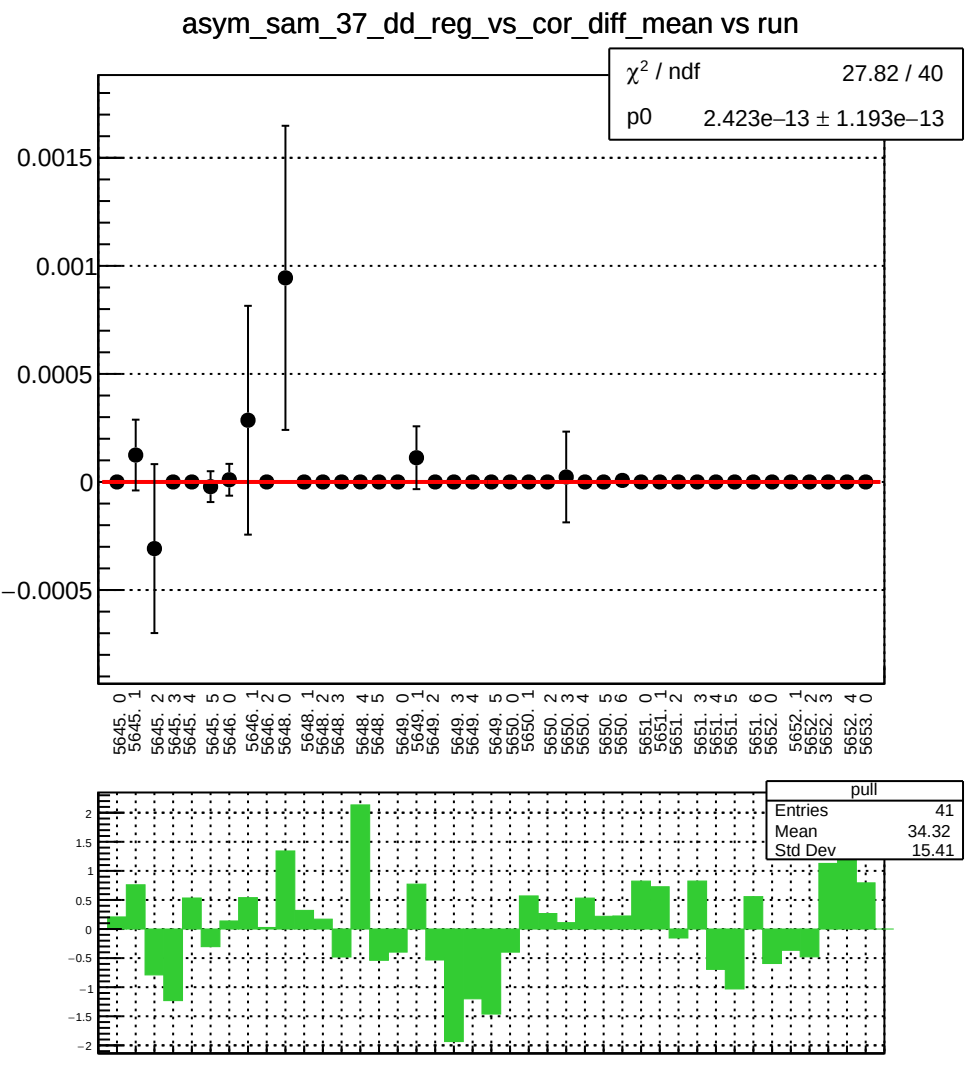

pull1D
Entries 41
Mean −0.008903
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

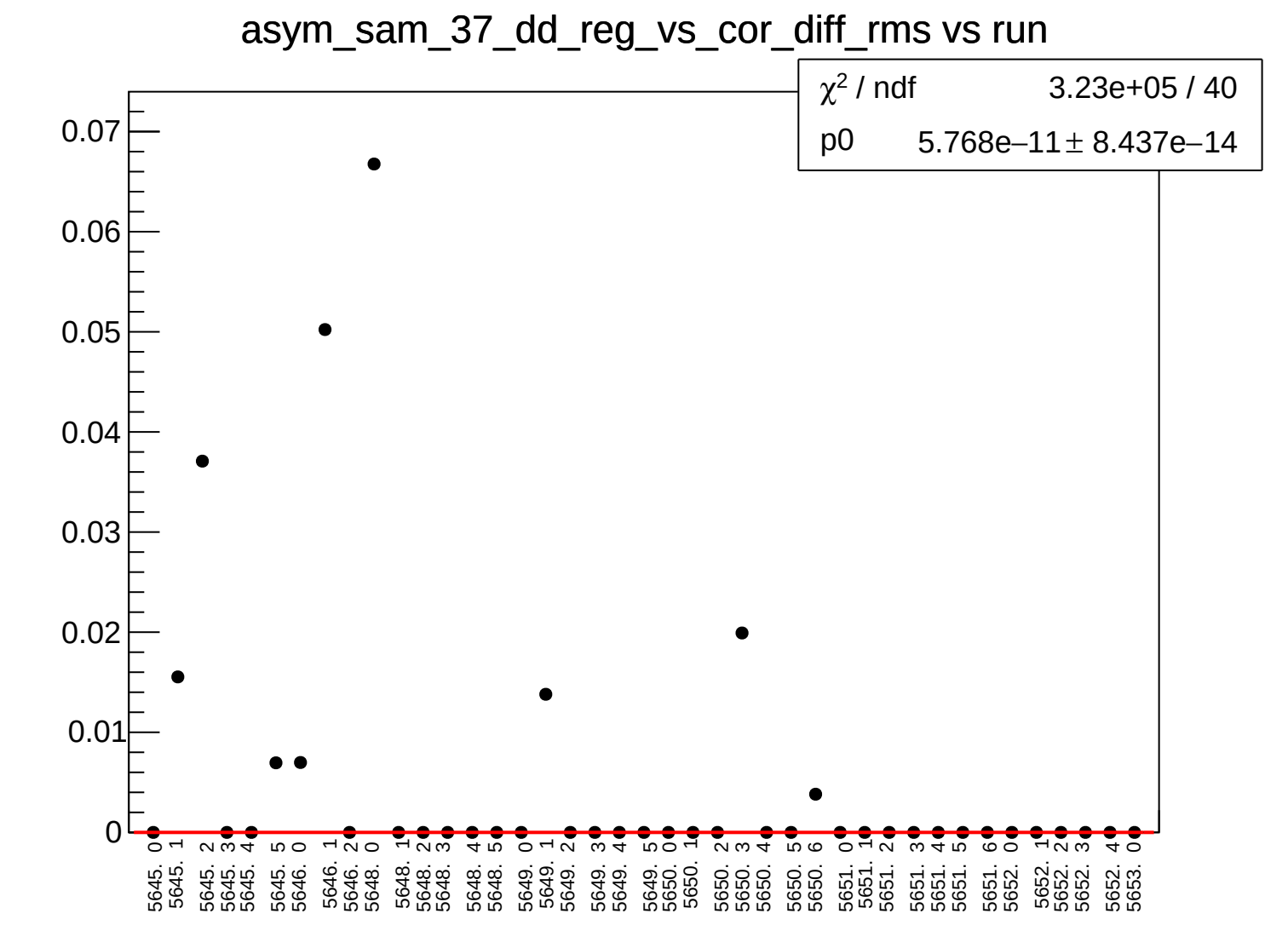

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2495 / 40
p0 576.7 ± 0.6497
660
640
620
600
580
560
540
520
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

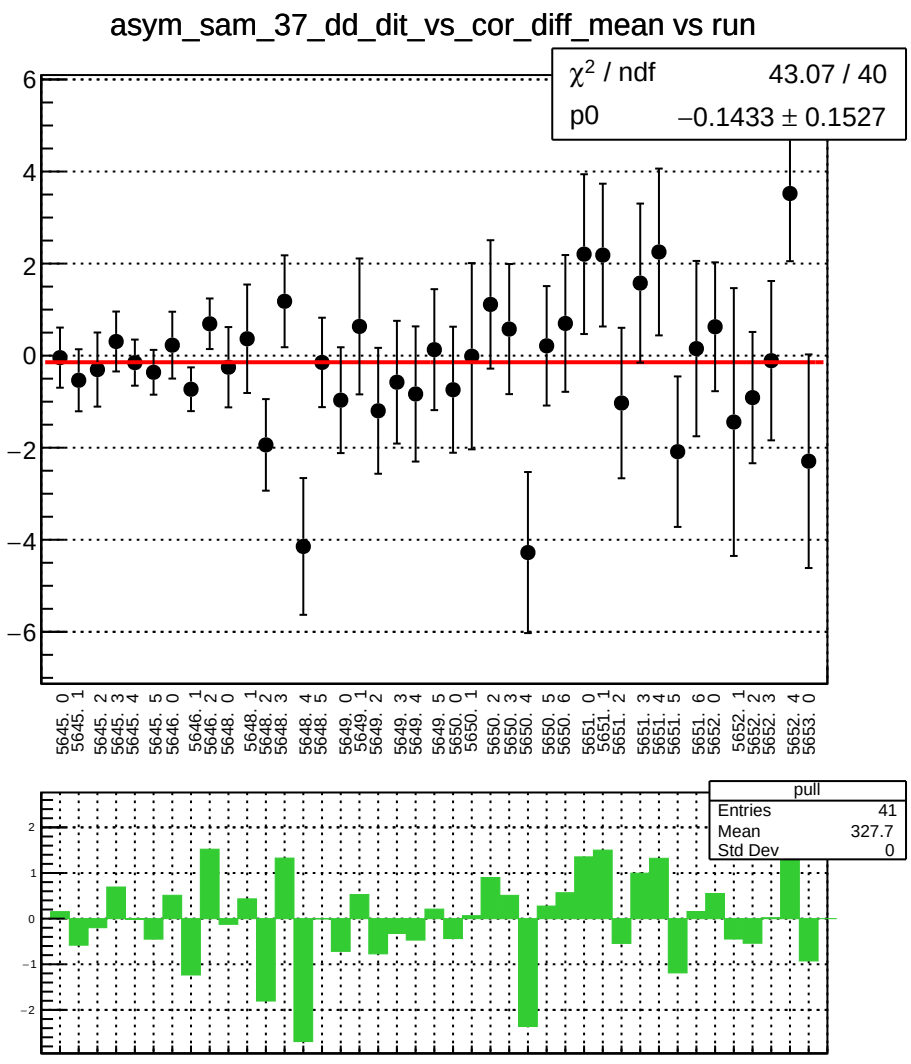

asym_sam_37_dd_mean vs run
χ² / ndf 48.13 / 40
p0 −1113 ± 1081
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −209.7
Std Dev 0
2
1
0
−1
−2

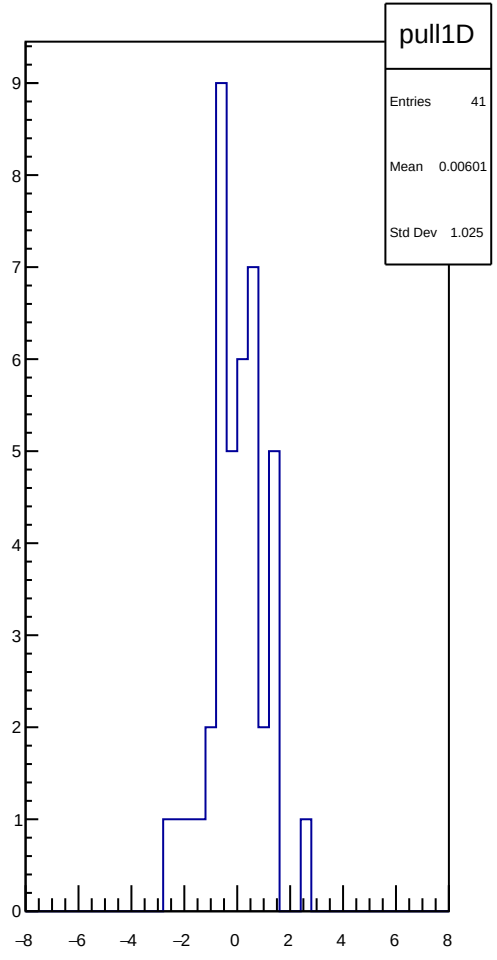

pull1D
Entries 41
Mean −0.002278
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

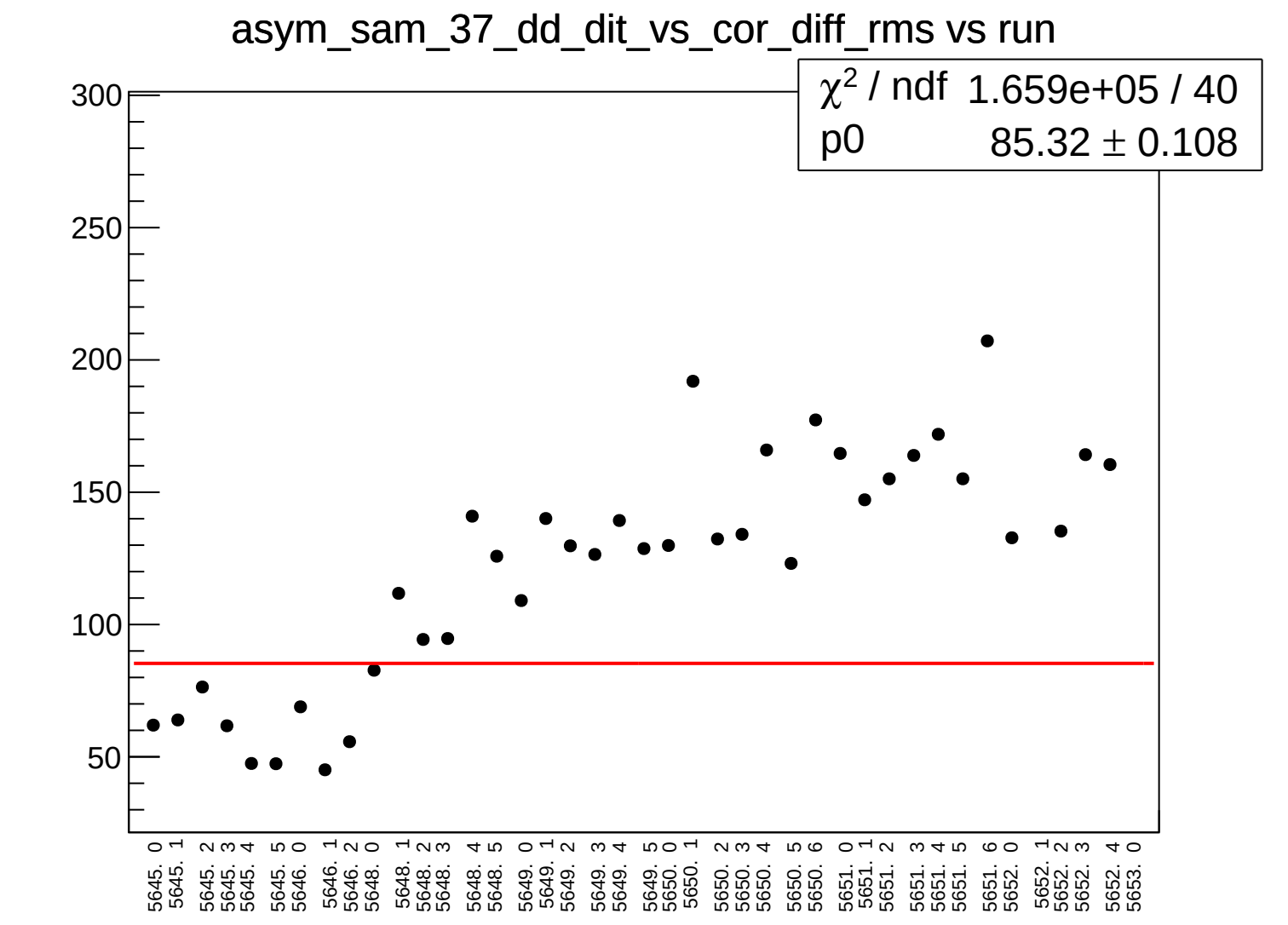

asym_sam_37_dd_rms vs run
χ² / ndf 1.303e+04 / 40
p0 674.2 ± 0.7647
950
900
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

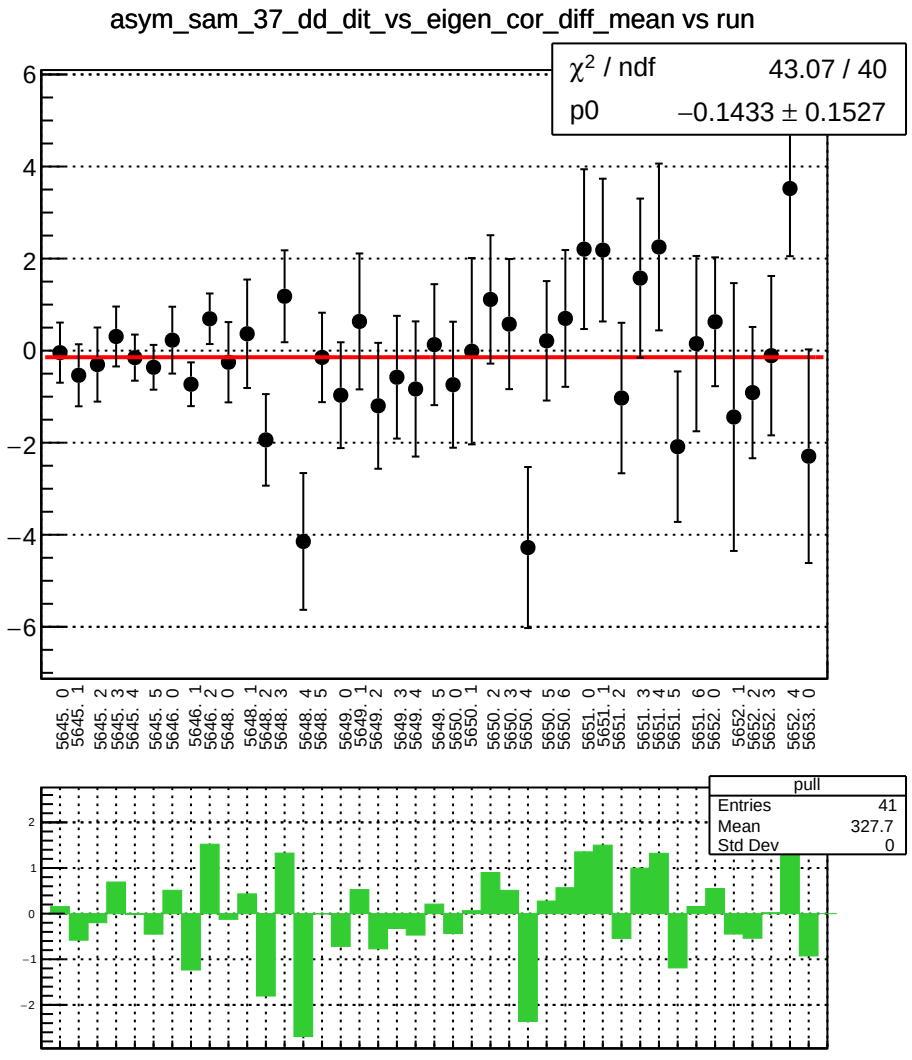

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.82 / 40
p0 2.423e−13 ± 1.193e−13
0.0015
0.001
0.0005
0
−0.0005
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.32
Std Dev 15.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.05943
Std Dev 0.8215
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

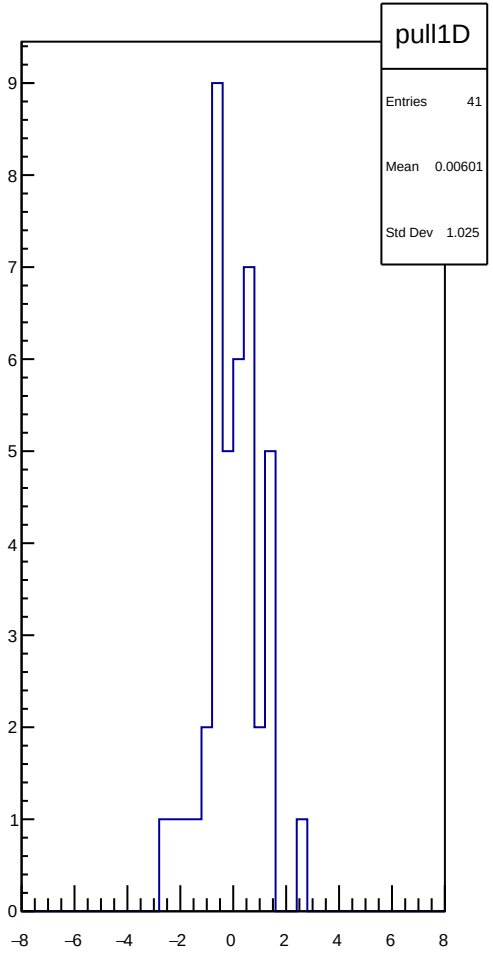

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.23e+05 / 40
p0 5.768e−11 ± 8.437e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

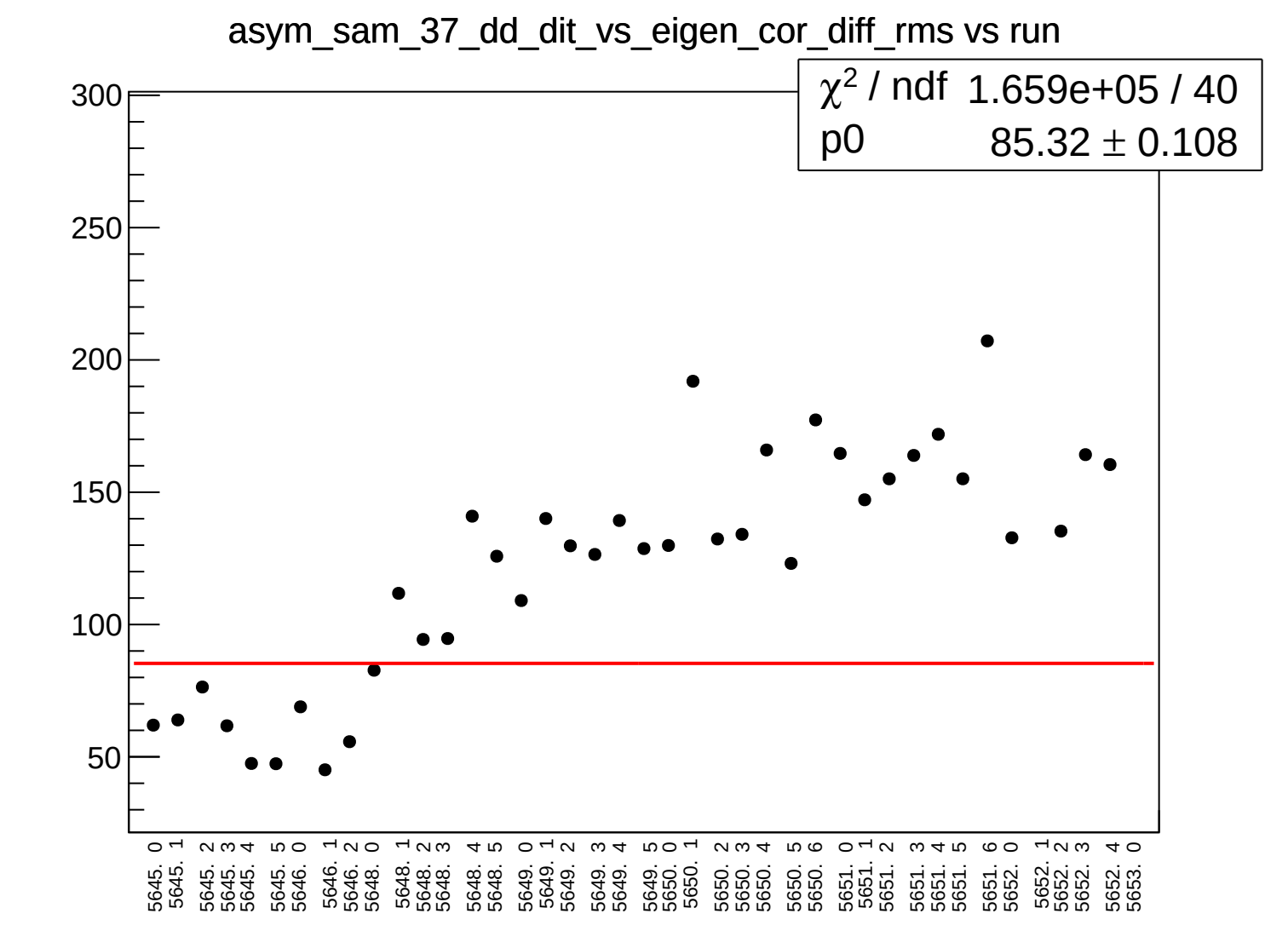

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.07 / 40
p0 −0.1433 ± 0.1527
pull
Entries 41
Mean 327.7
Std Dev 0

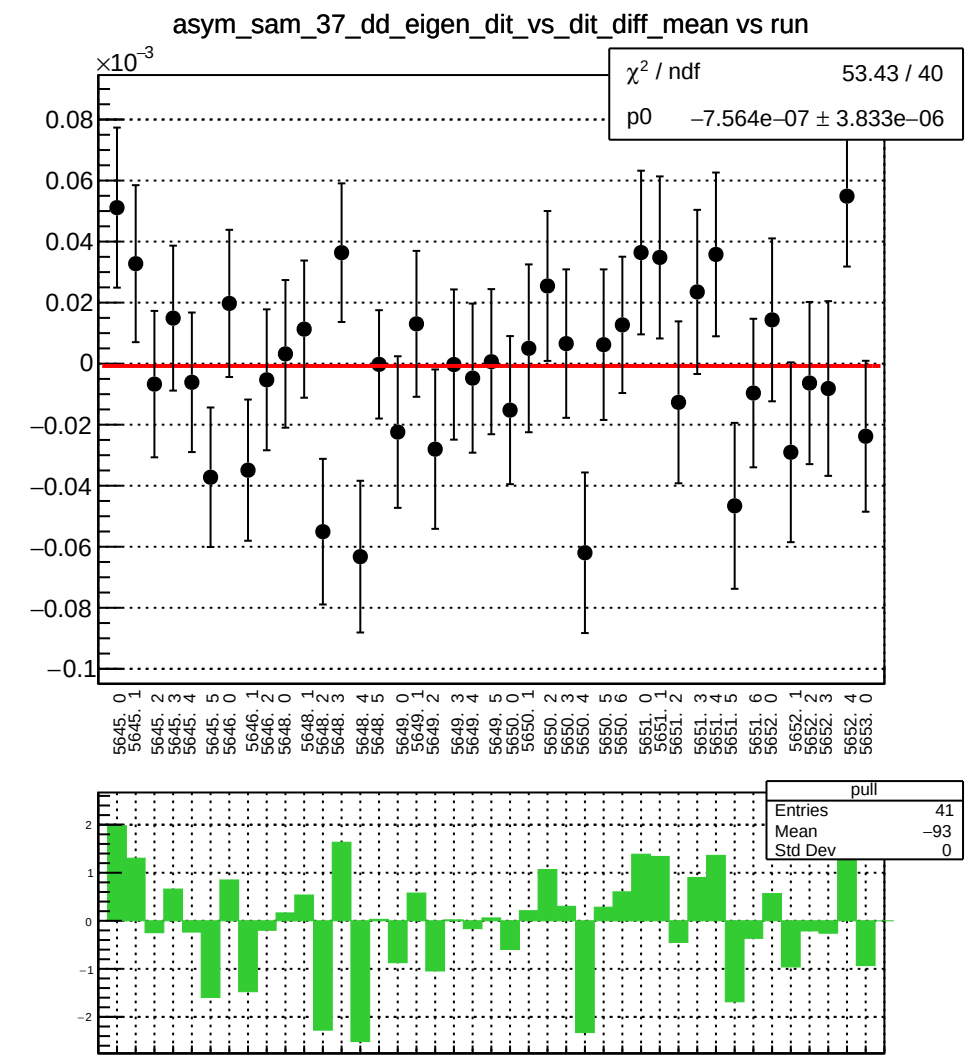

pull1D
Entries 41
Mean 0.00601
Std Dev 1.025

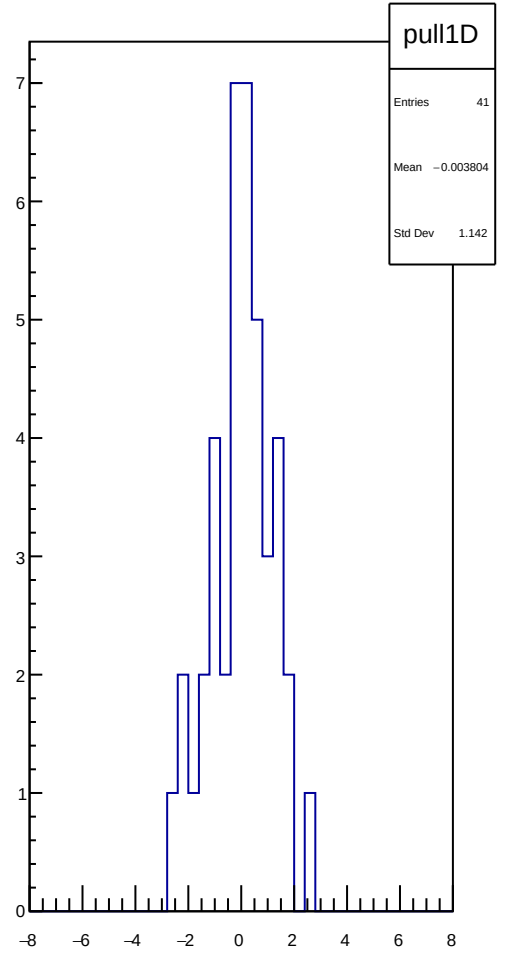

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 40
p0 85.32 ± 0.108
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

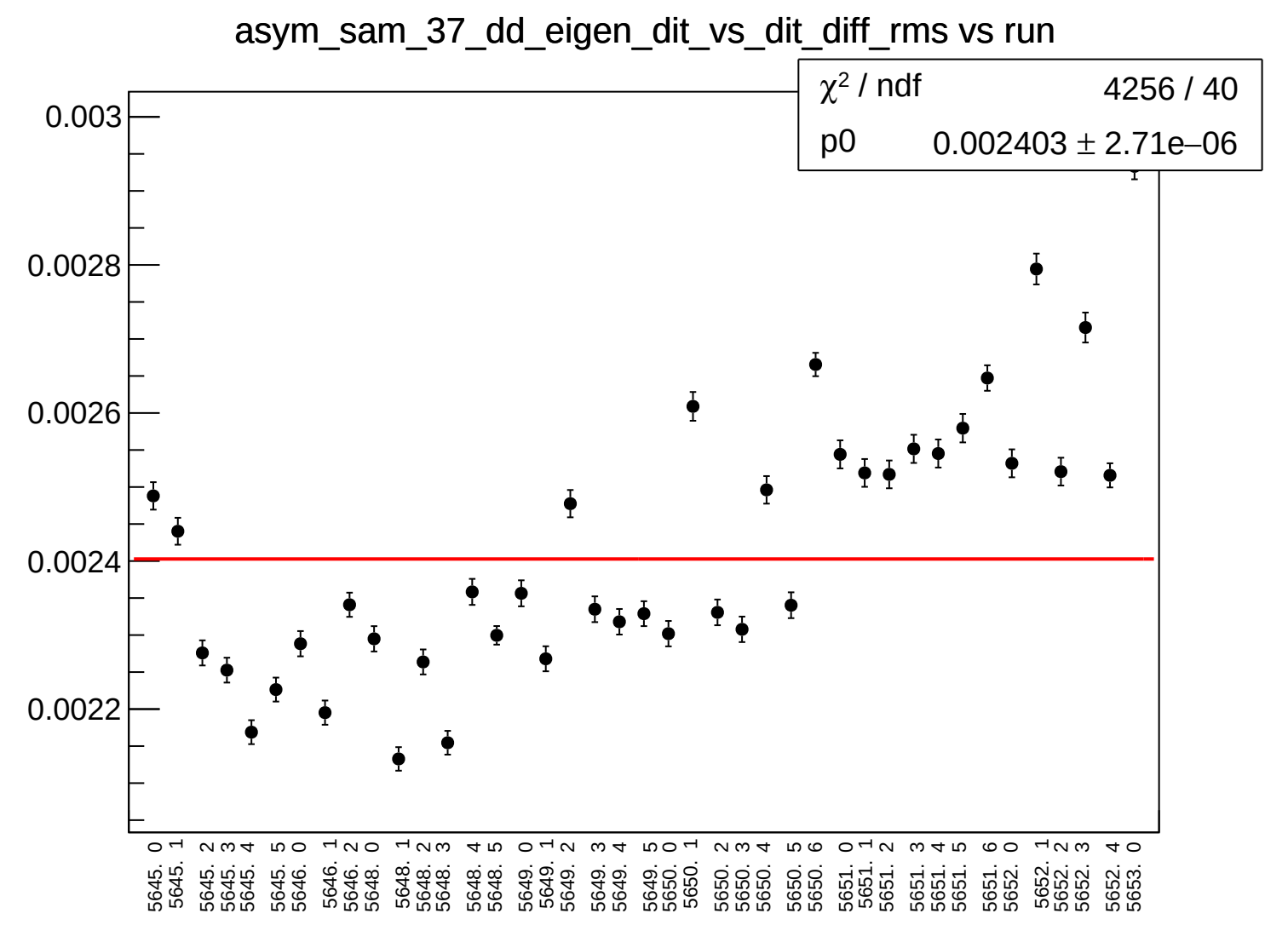

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.07 / 40
p0 −0.1433 ± 0.1527
pull
Entries 41
Mean 327.7
Std Dev 0

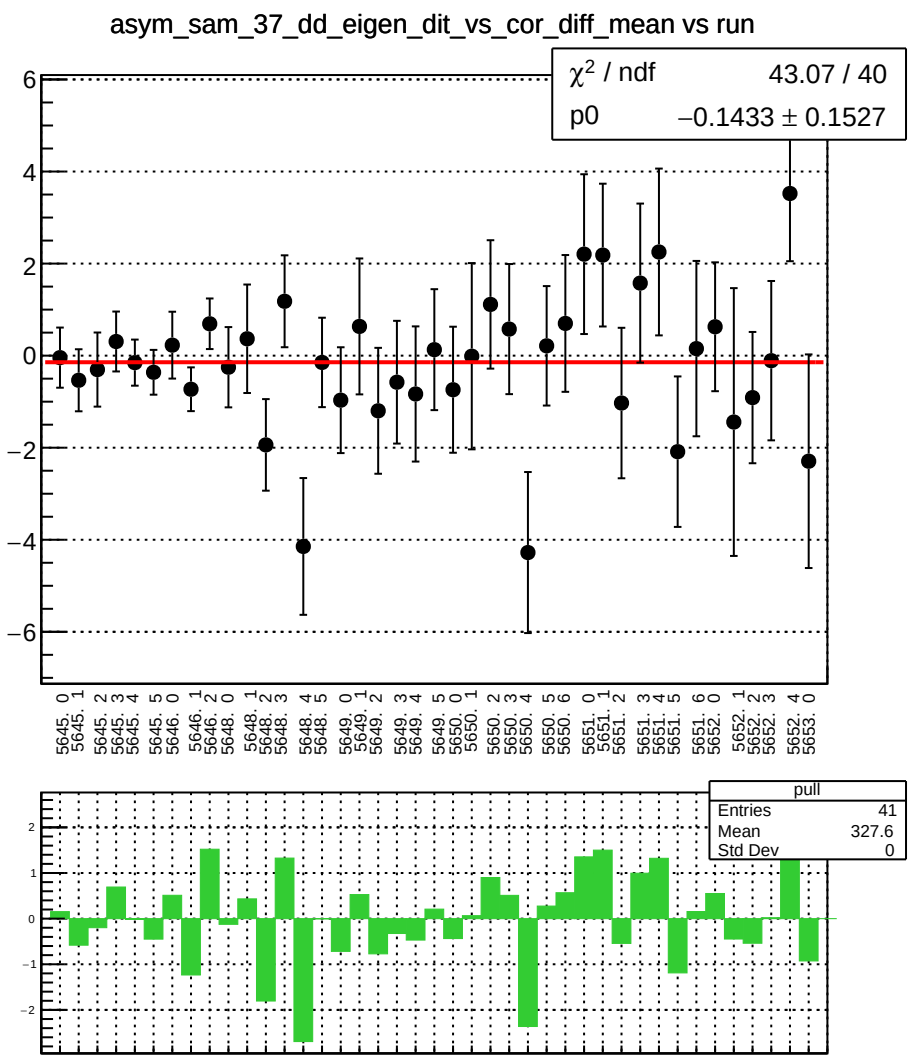

pull1D
Entries 41
Mean 0.00601
Std Dev 1.025

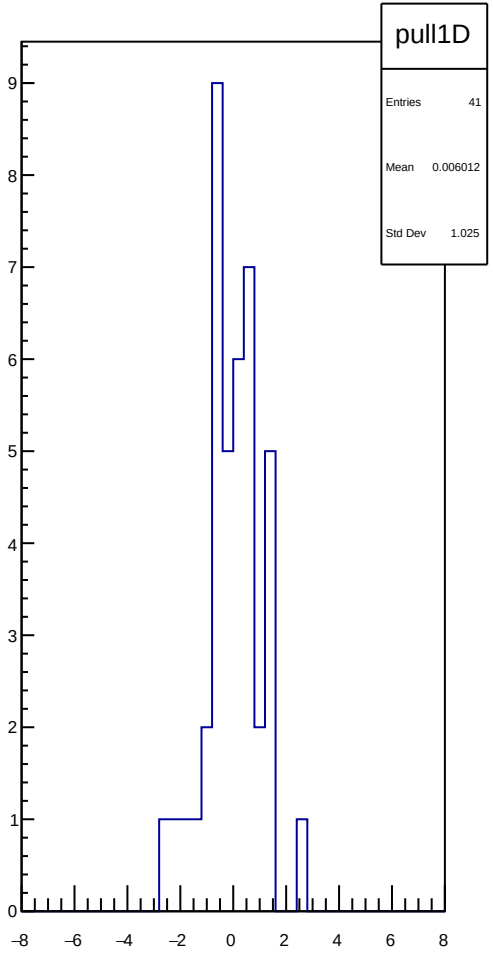

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 40
p0 85.32 ± 0.108
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

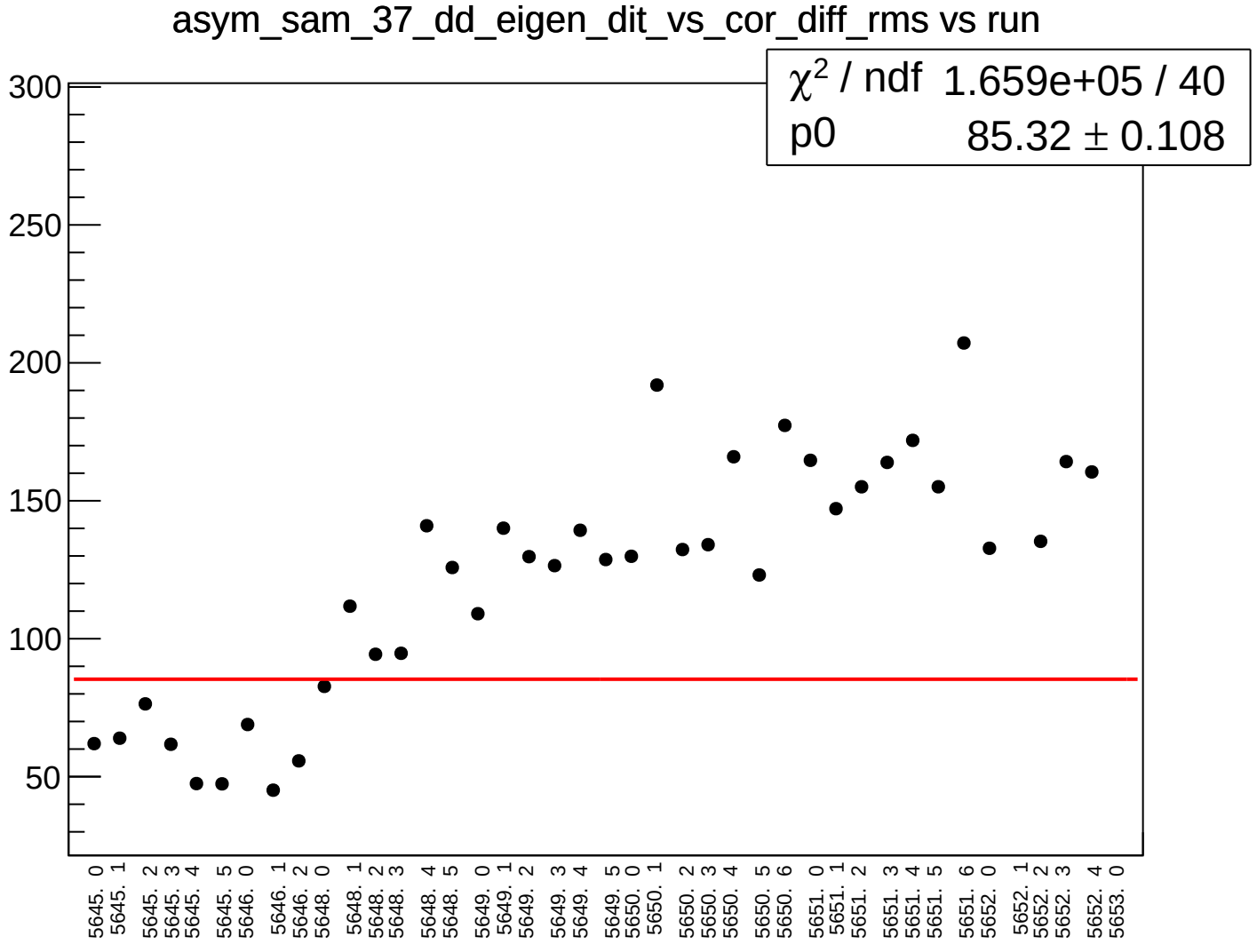

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.43 / 40
p0 −7.564e−07 ± 3.833e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −93
Std Dev 0
2
1
0
−1
−2

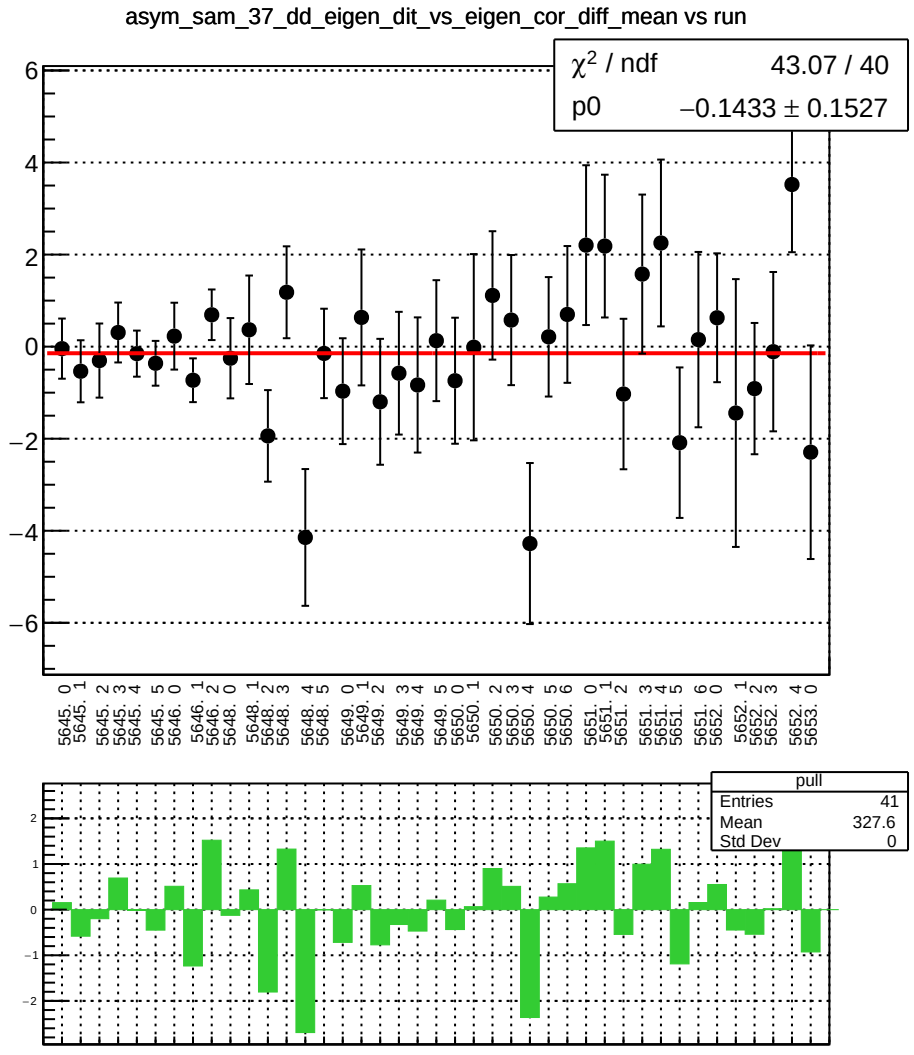

pull1D
Entries 41
Mean −0.003804
Std Dev 1.142
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

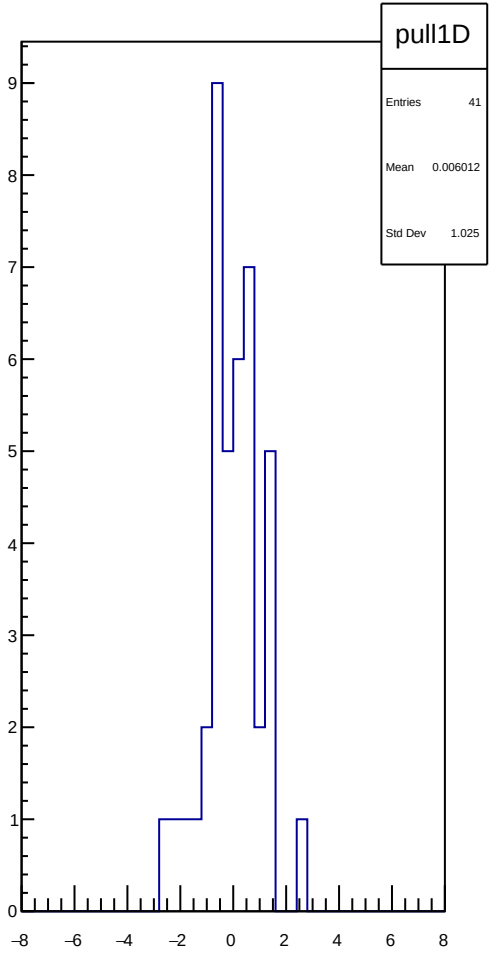

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4256 / 40
p0 0.002403 ± 2.71e–06
0.003
0.0028
0.0026
0.0024
0.0022
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

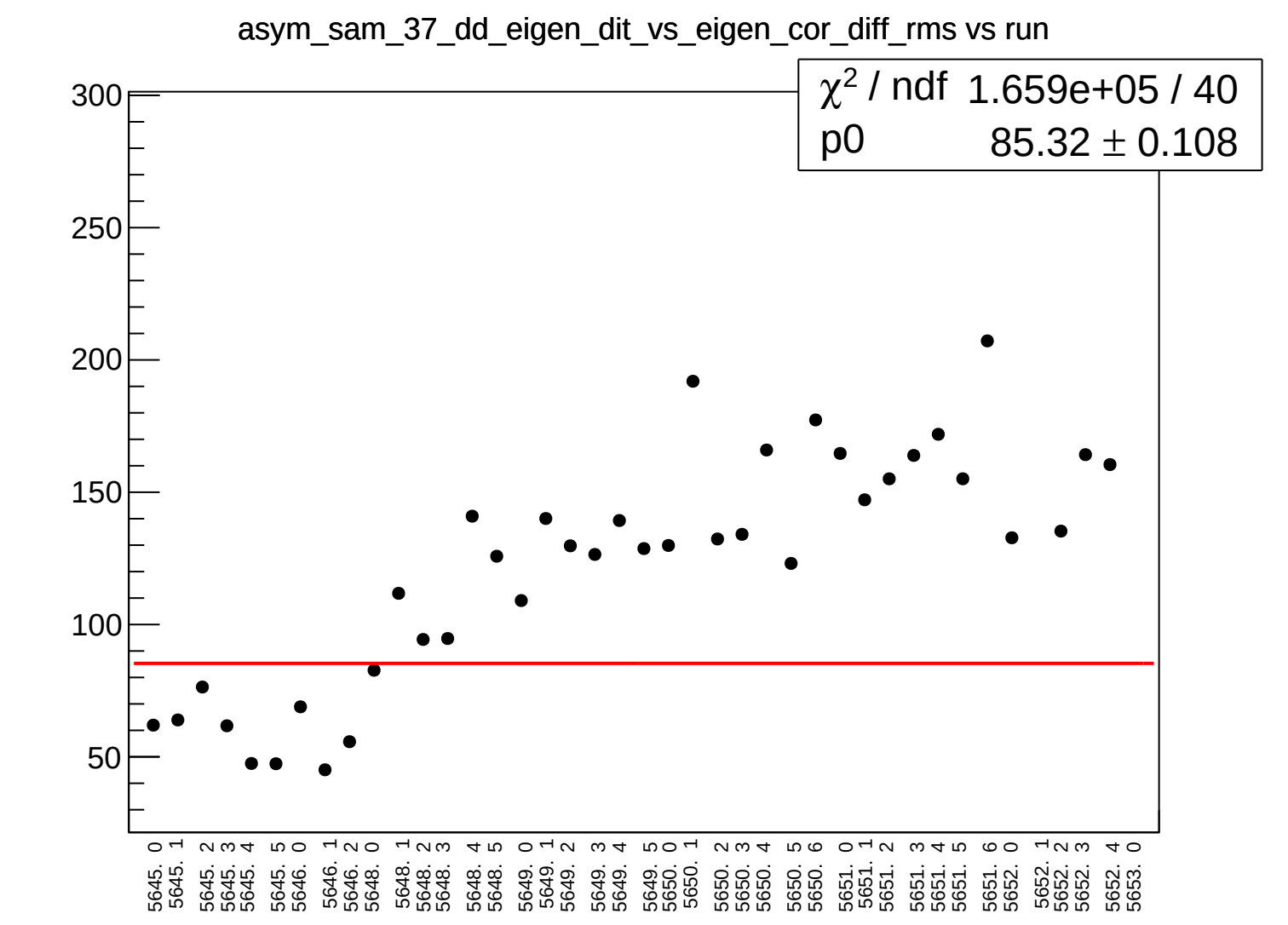

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.07 / 40
p0 −0.1433 ± 0.1527
pull
Entries 41
Mean 327.6
Std Dev 0

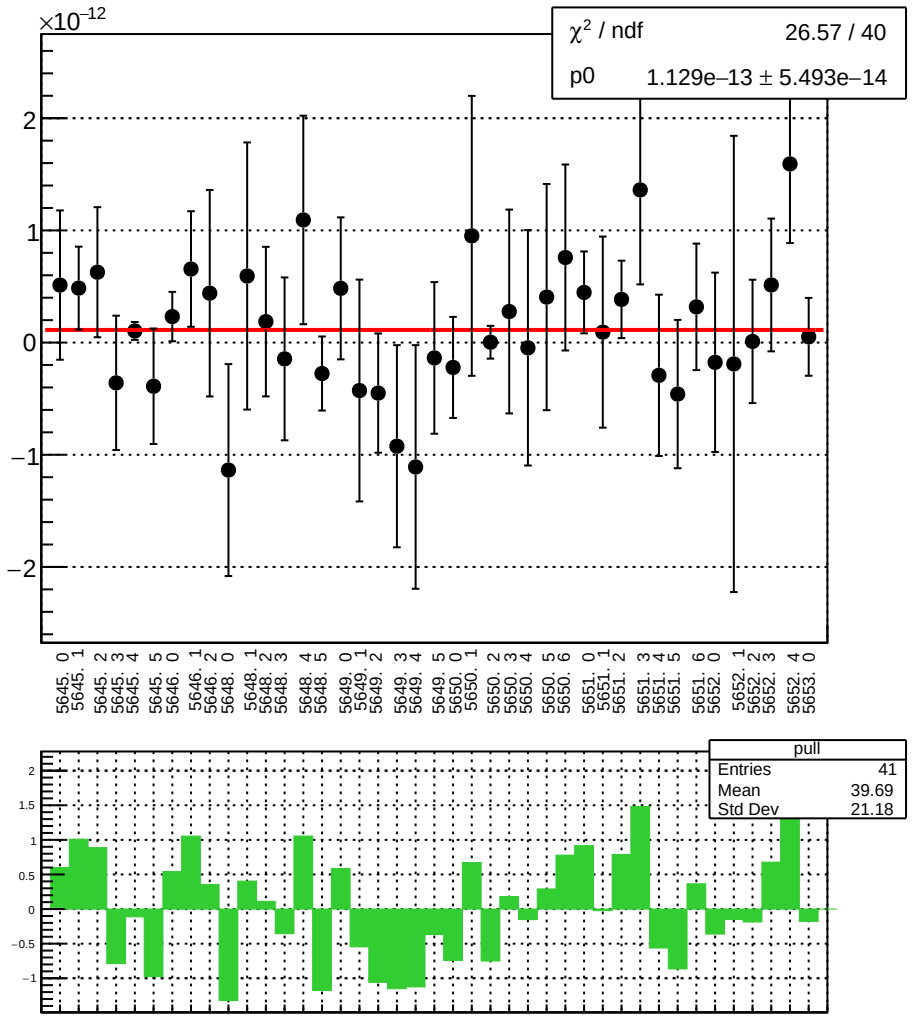

pull1D
Entries 41
Mean 0.006012
Std Dev 1.025

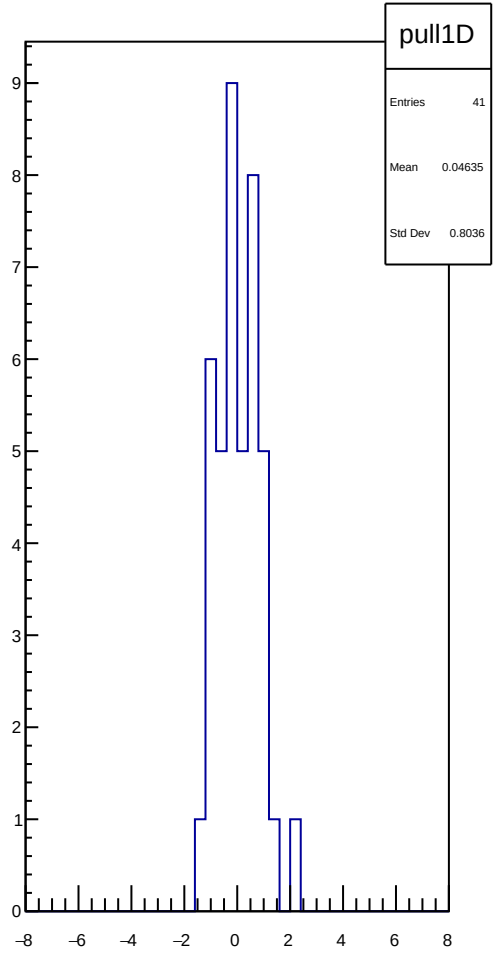

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 40
p0 85.32 ± 0.108
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

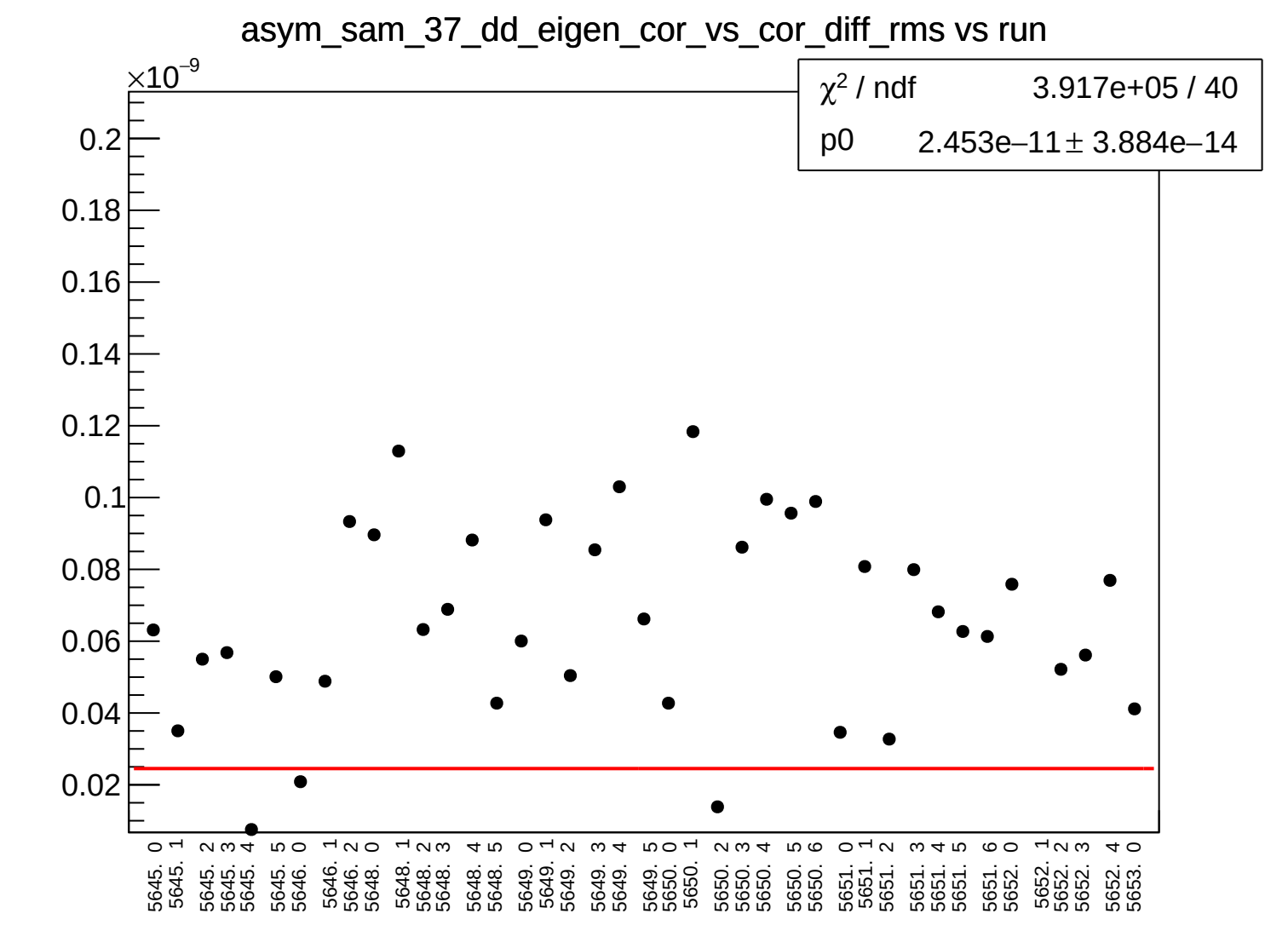

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.07 / 40
p0 −0.1433 ± 0.1527
pull
Entries 41
Mean 327.6
Std Dev 0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

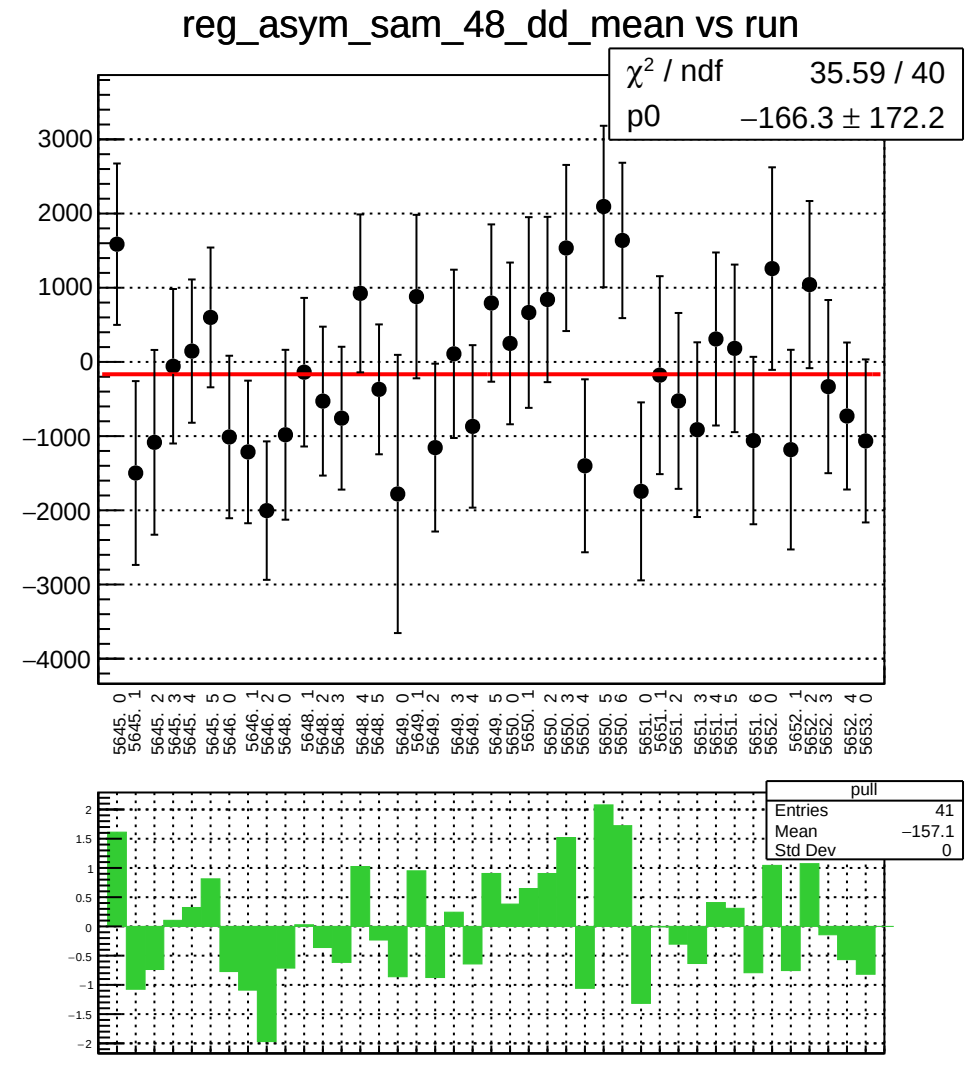

pull1D
Entries 41
Mean 0.006012
Std Dev 1.025

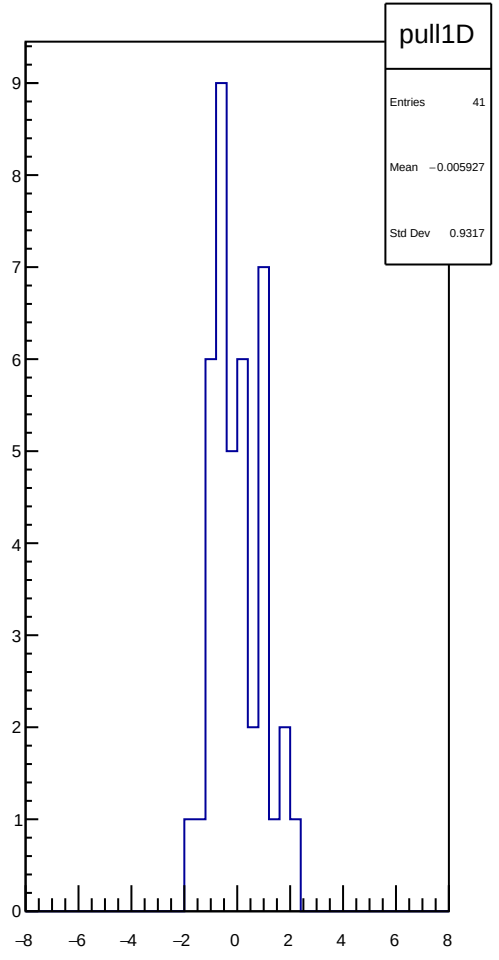

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 40
p0 85.32 ± 0.108
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

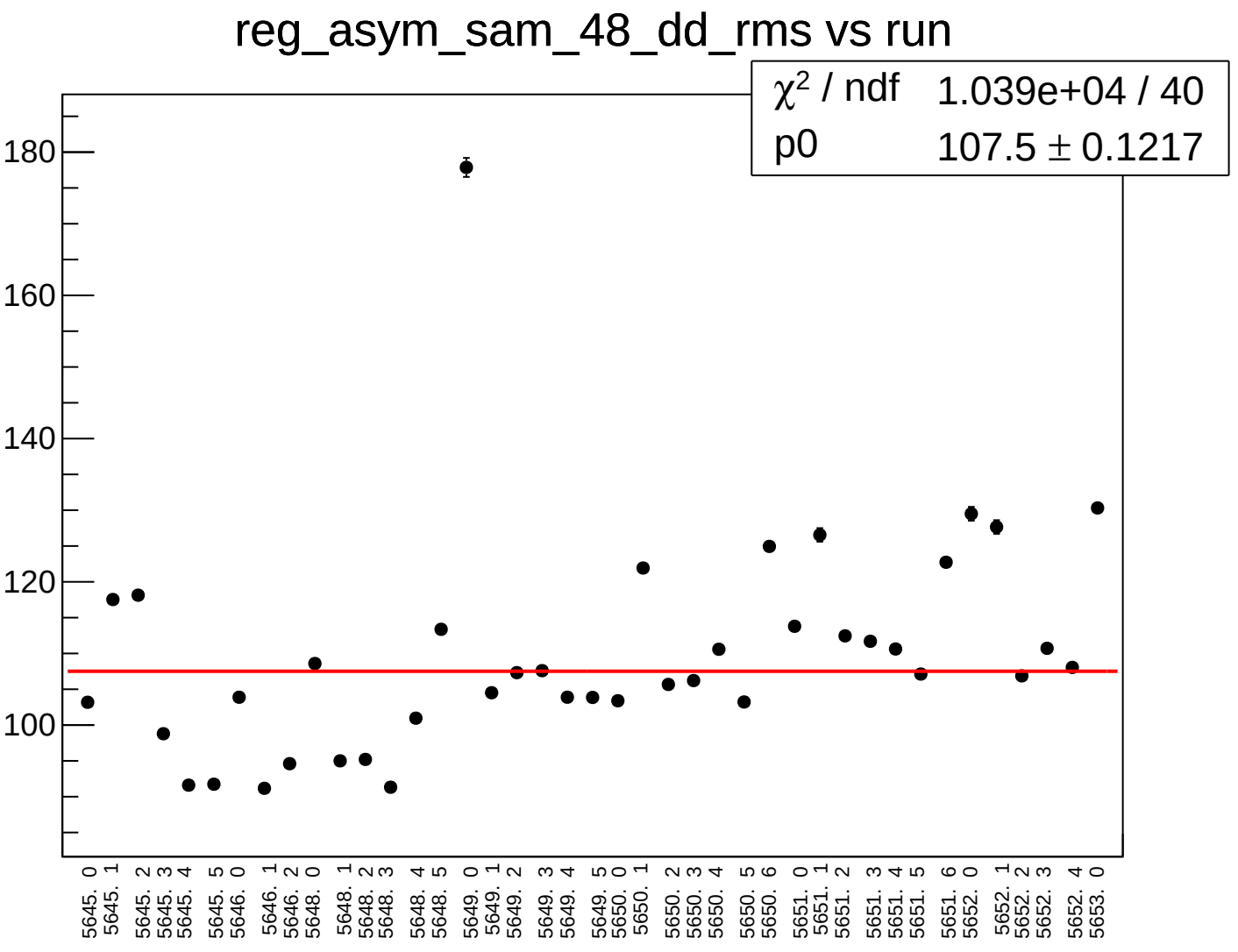

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 26.57 / 40
p0 1.129e−13 ± 5.493e−14
pull
Entries 41
Mean 39.69
Std Dev 21.18

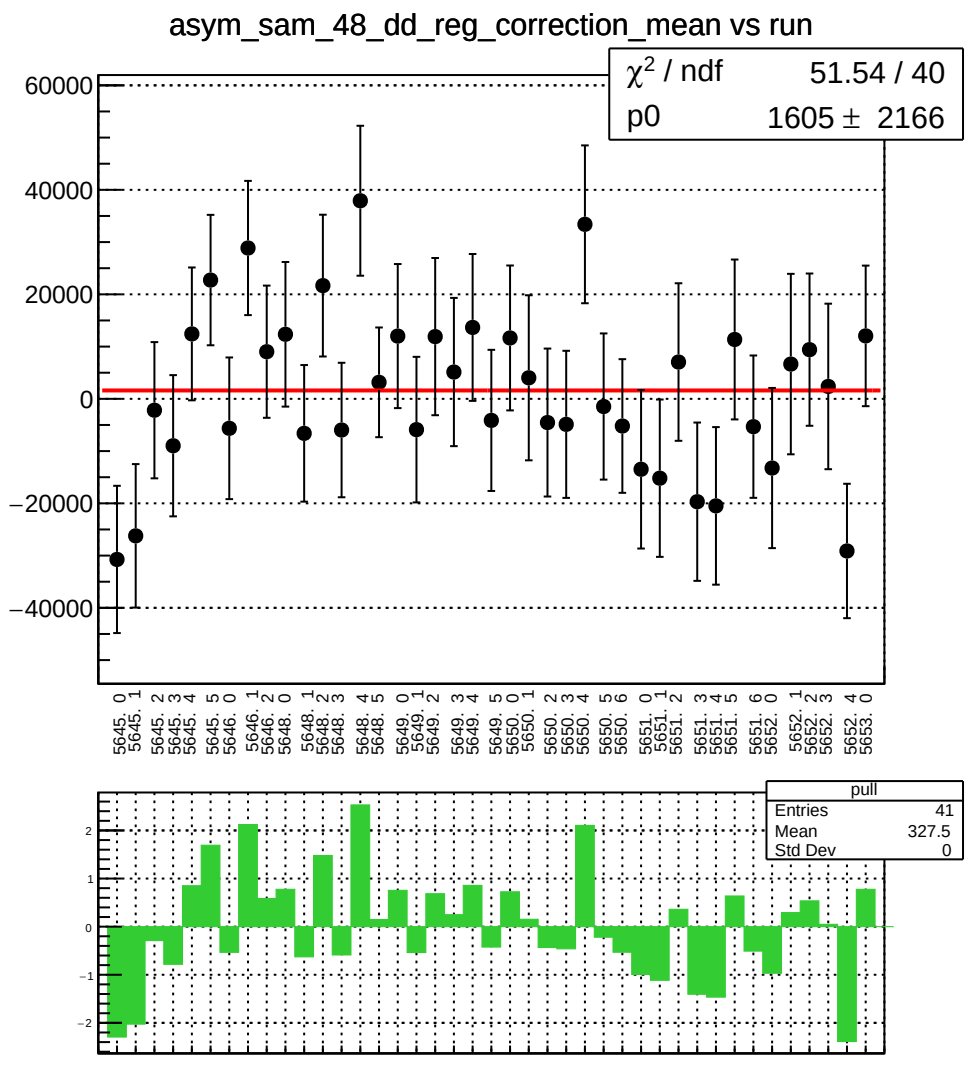

pull1D
Entries 41
Mean 0.04635
Std Dev 0.8036

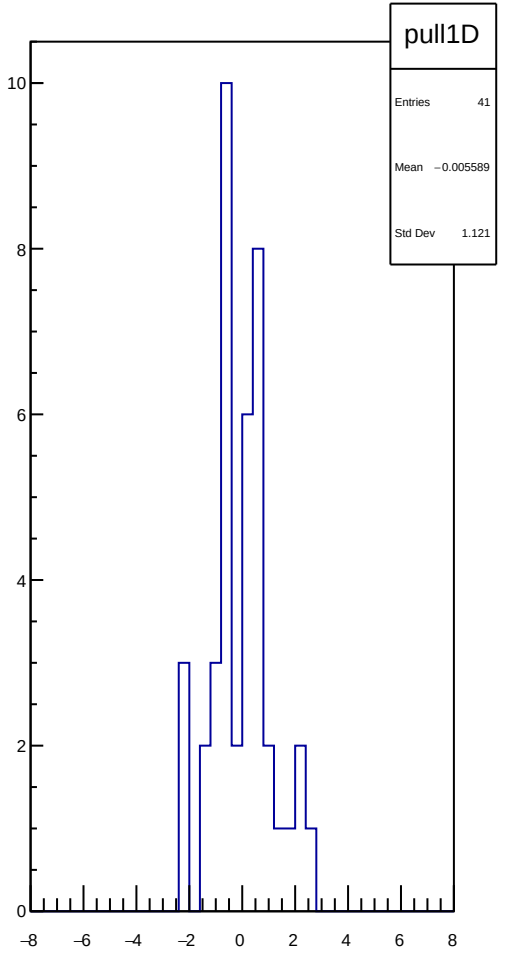

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.917e+05 / 40
p0 2.453e−11 ± 3.884e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

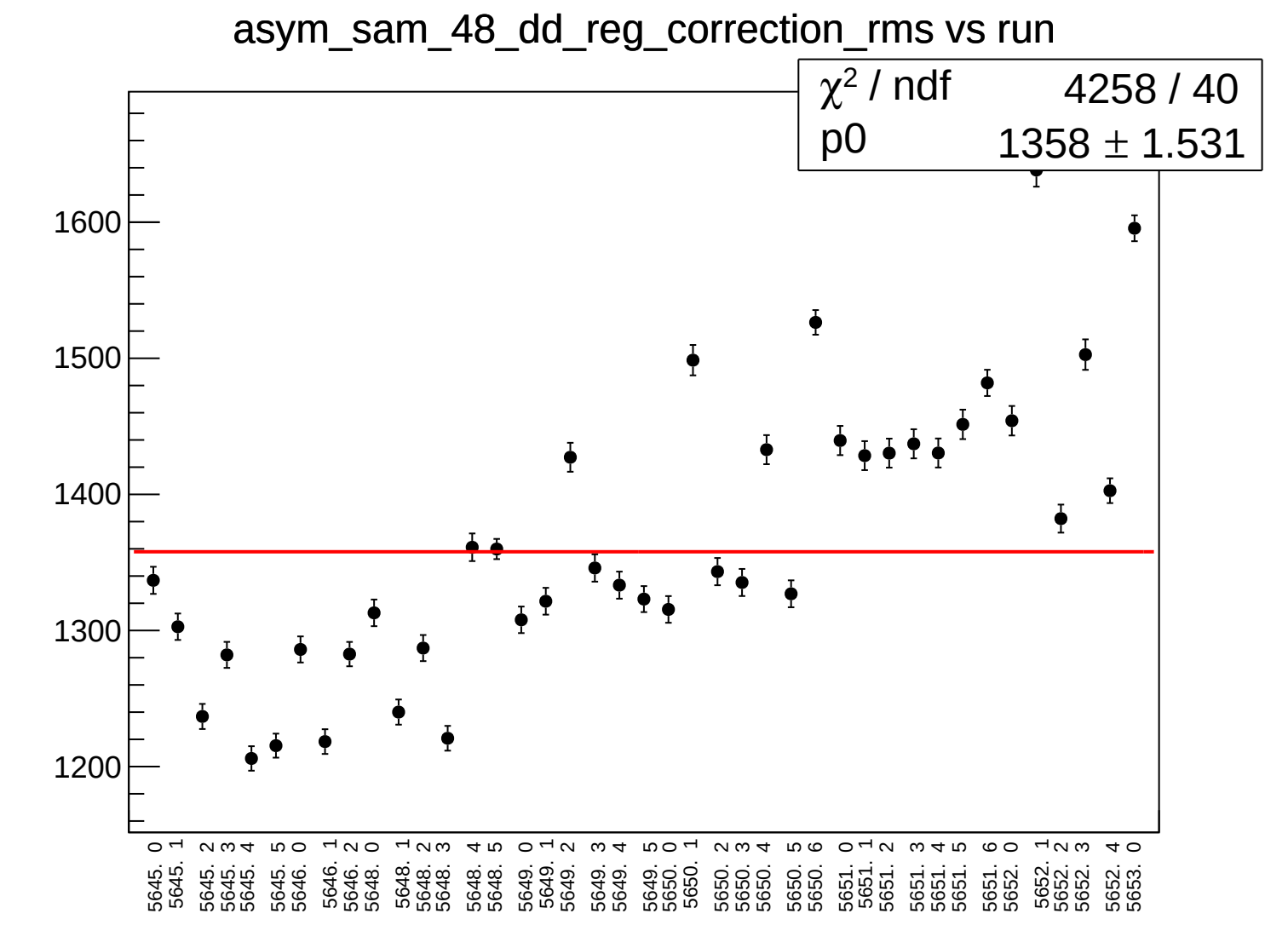

reg_asym_sam_48_dd_mean vs run
χ² / ndf 35.59 / 40
p0 −166.3 ± 172.2
pull
Entries 41
Mean −157.1
Std Dev 0

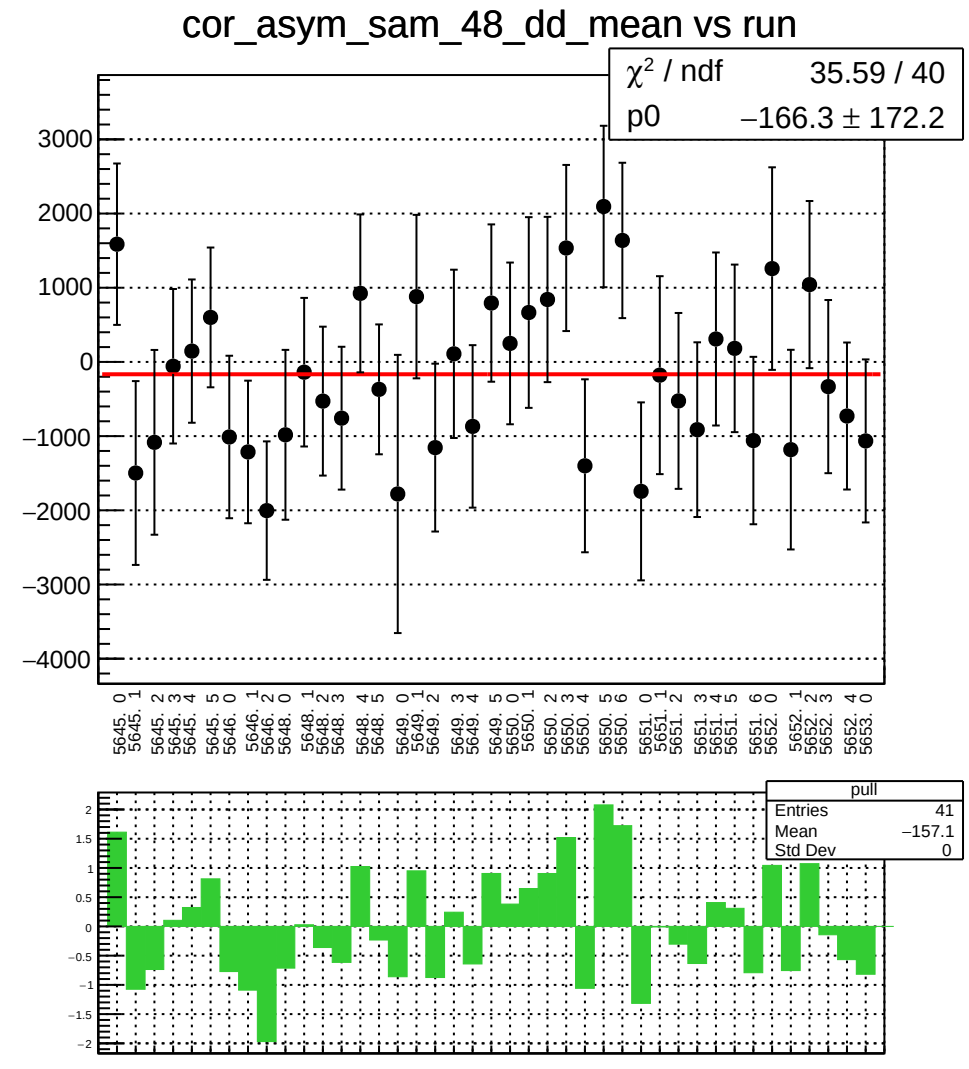

pull1D
Entries 41
Mean −0.005927
Std Dev 0.9317

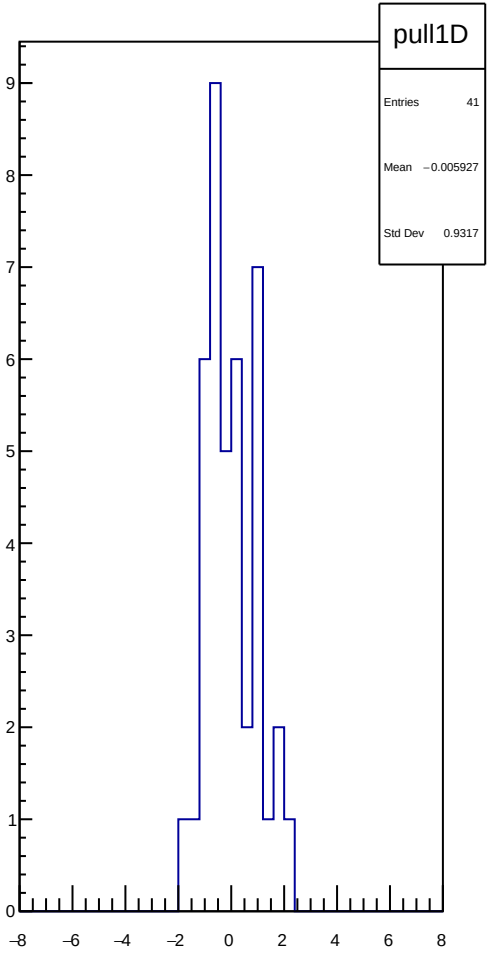

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.039e+04 / 40
p0 107.5 ± 0.1217
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

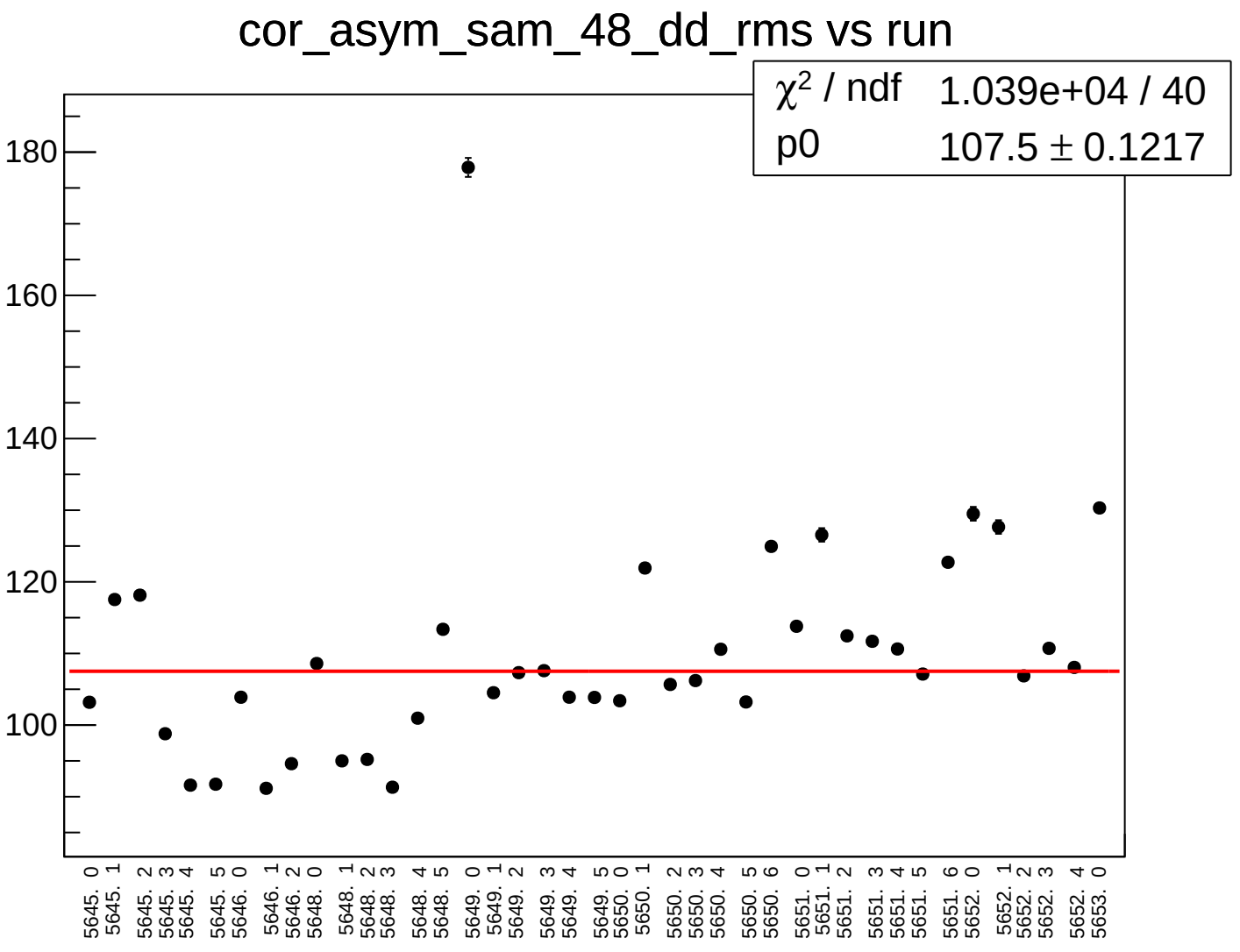

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 51.54 / 40
p0 1605 ± 2166
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 327.5
Std Dev 0
2
1
0
−1
−2

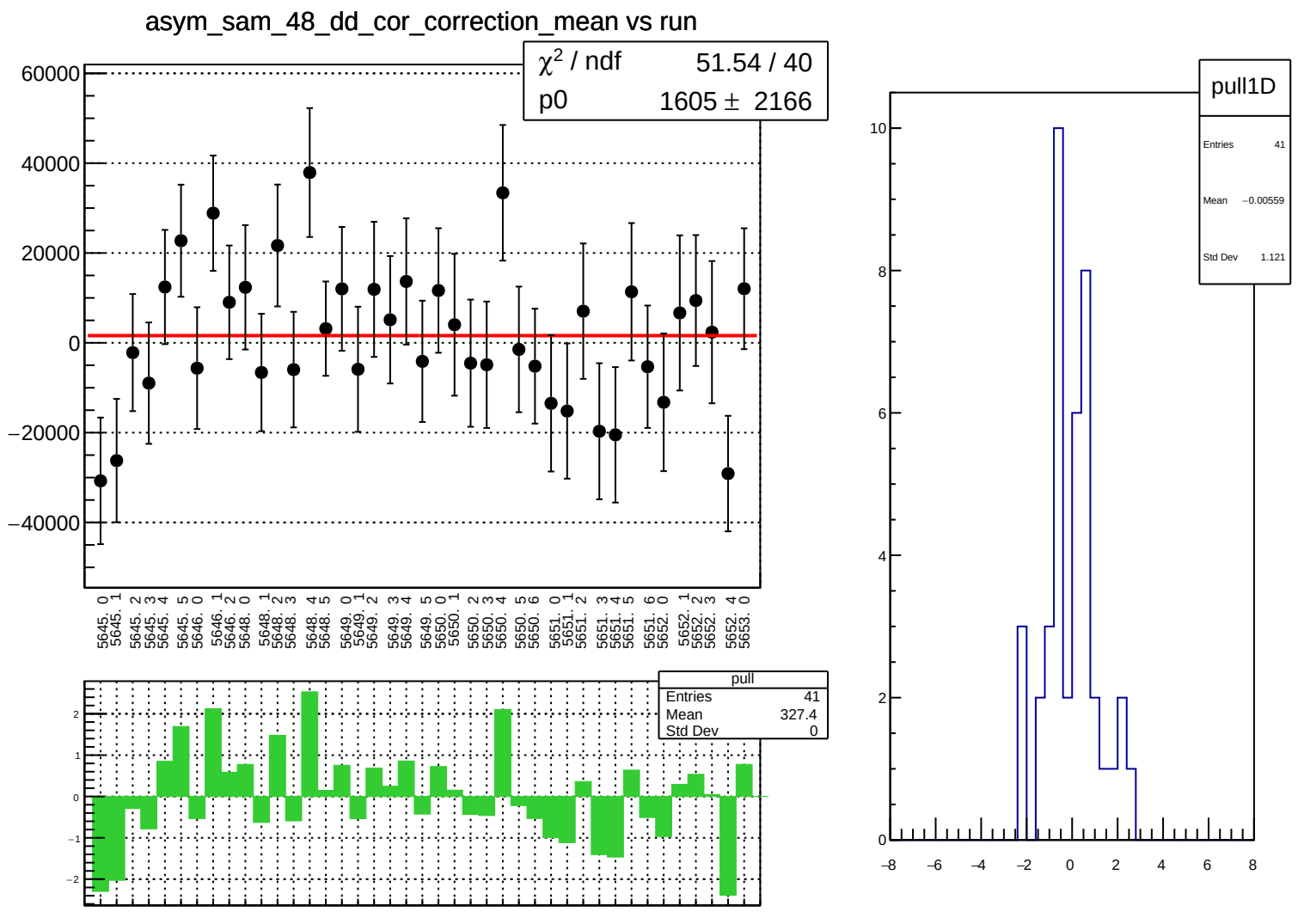

pull1D
Entries 41
Mean −0.005589
Std Dev 1.121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

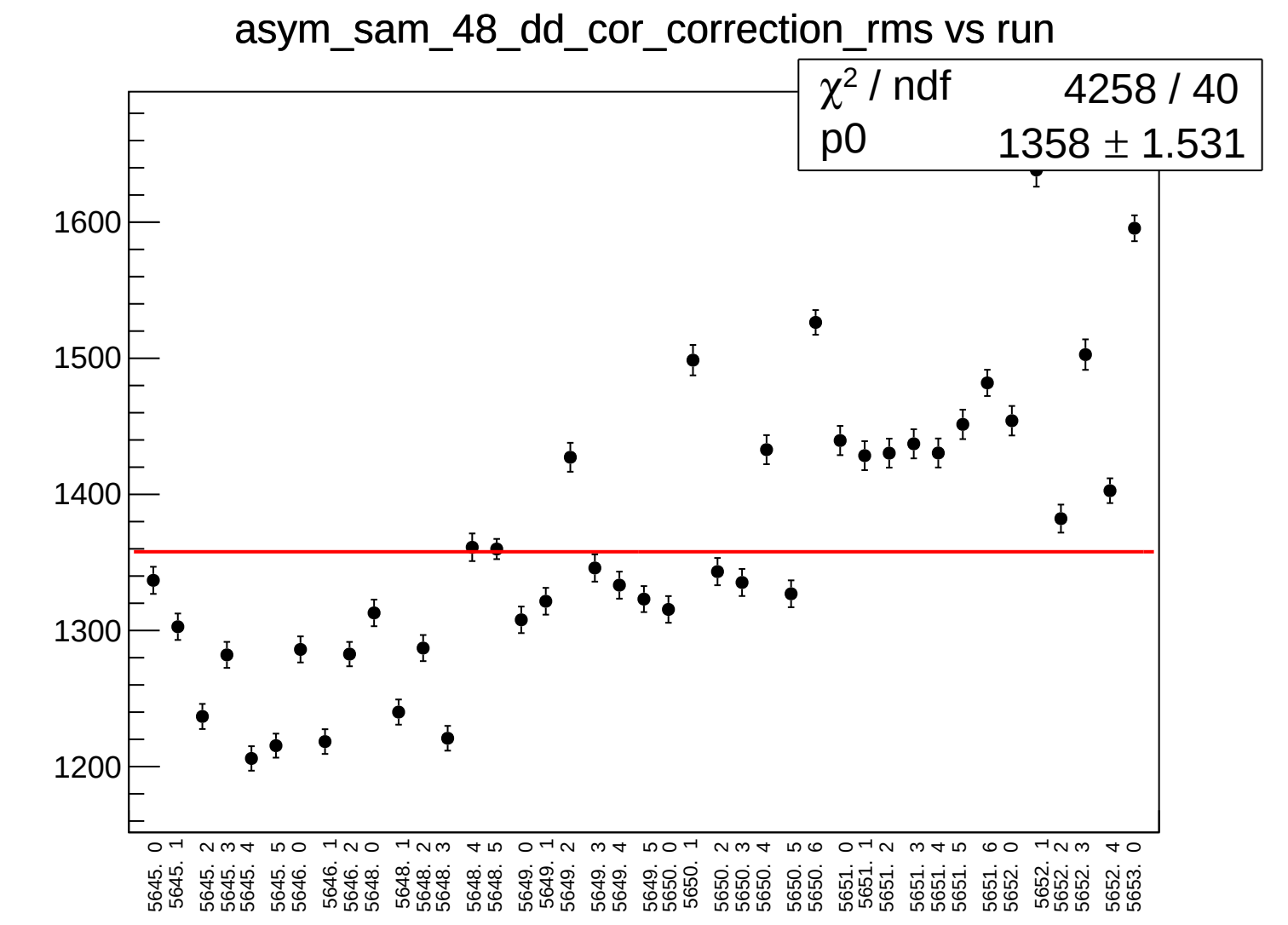

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 4258 / 40
p0 1358 ± 1.531
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

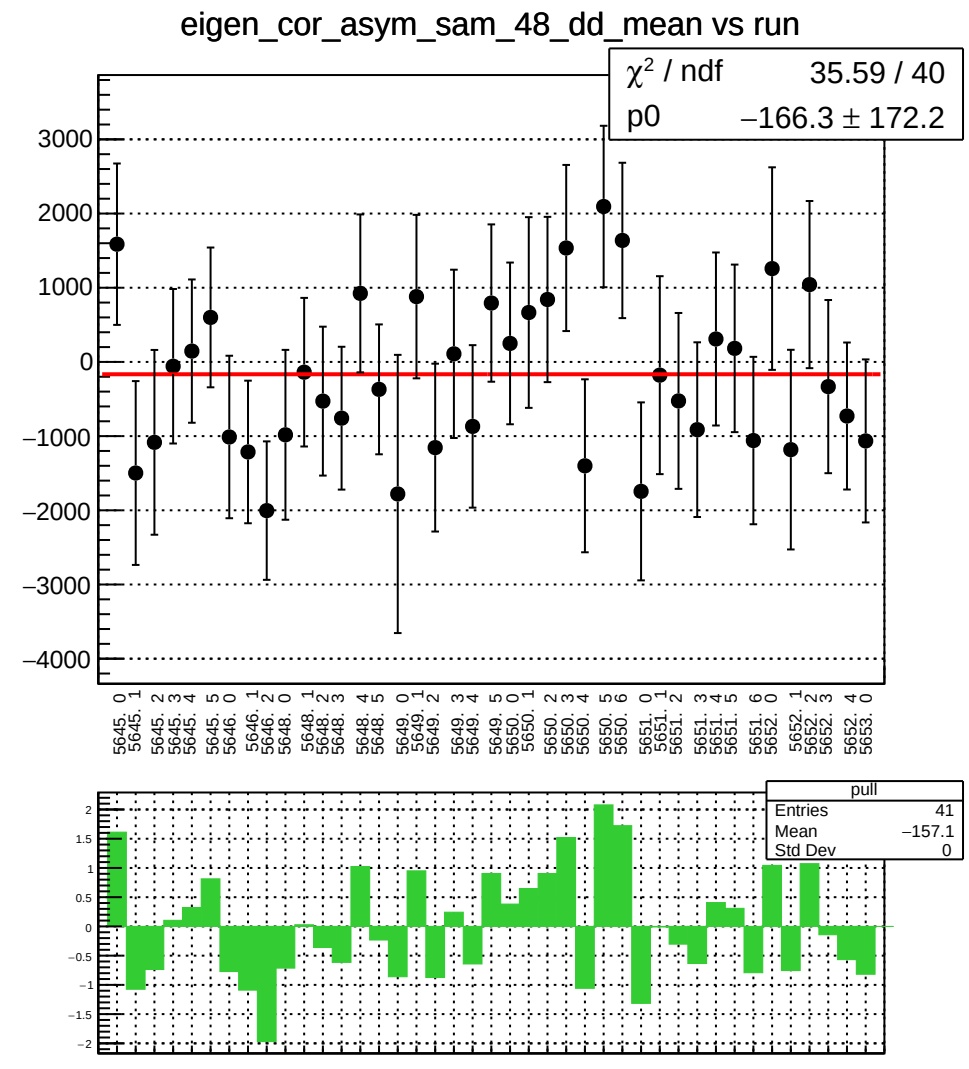

cor_asym_sam_48_dd_mean vs run
χ² / ndf 35.59 / 40
p0 −166.3 ± 172.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −157.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

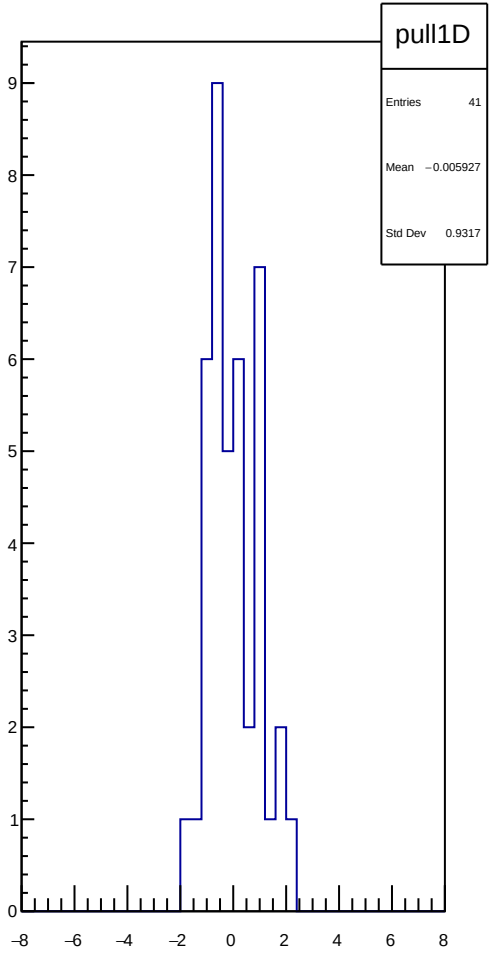

pull1D
Entries 41
Mean −0.005927
Std Dev 0.9317
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

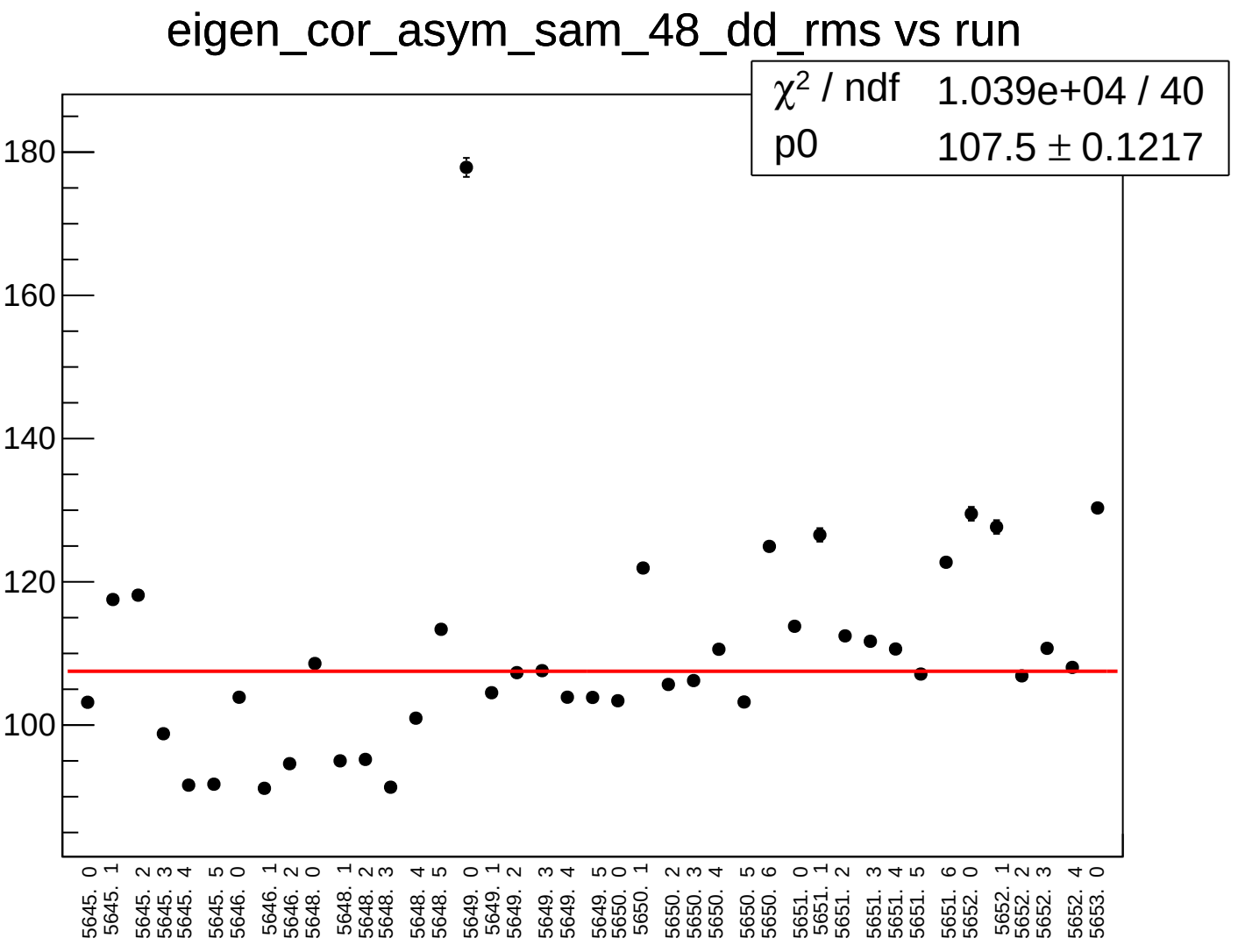

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.039e+04 / 40
p0 107.5 ± 0.1217
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

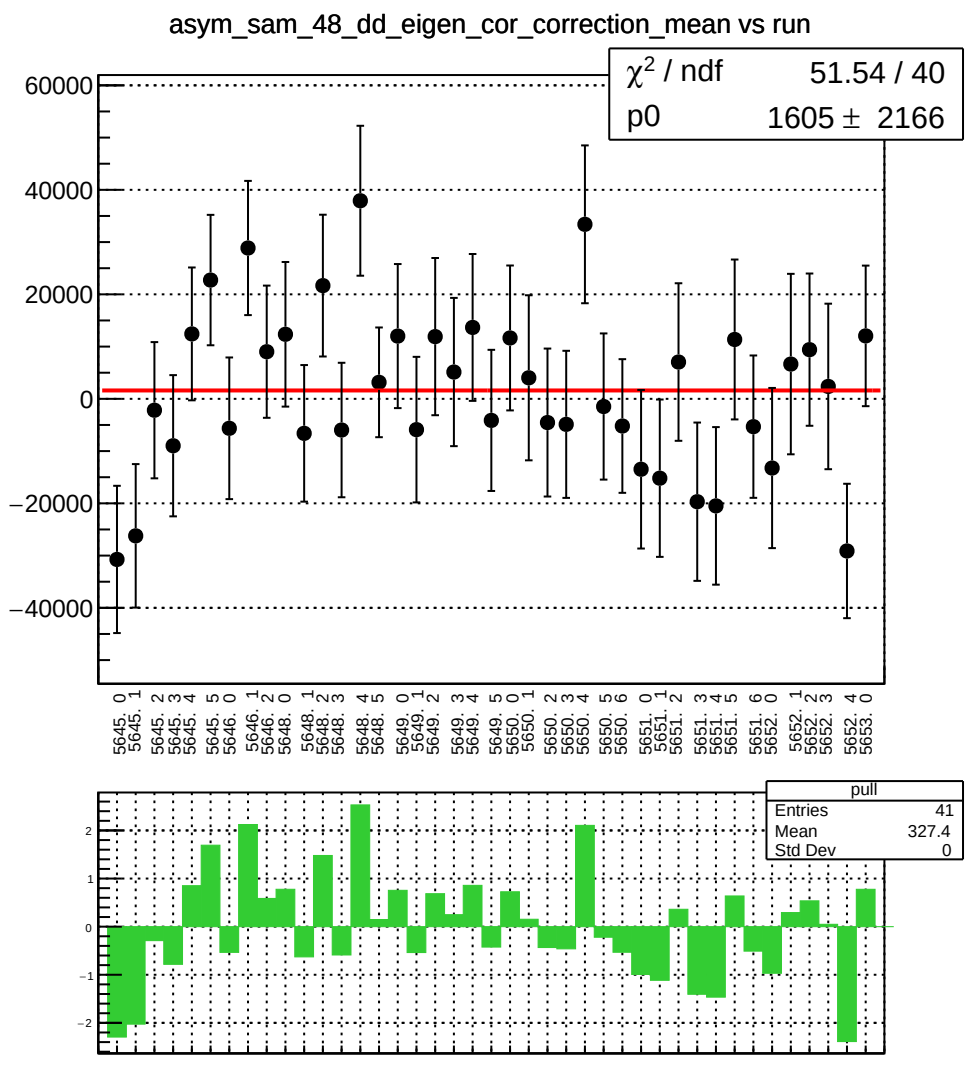

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 51.54 / 40
p0 1605 ± 2166
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 327.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00559
Std Dev 1.121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

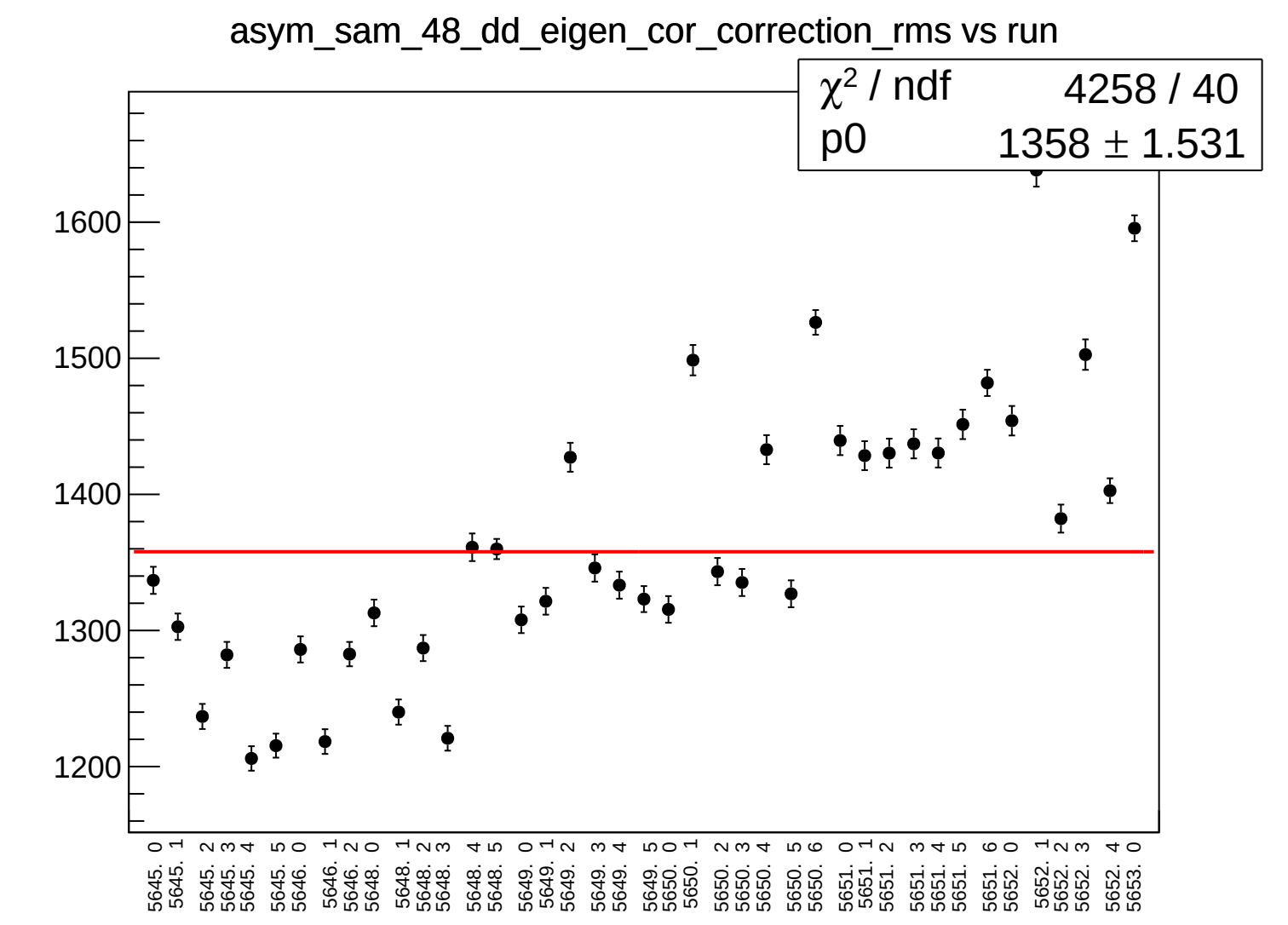

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 4258 / 40
p0 1358 ± 1.531
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

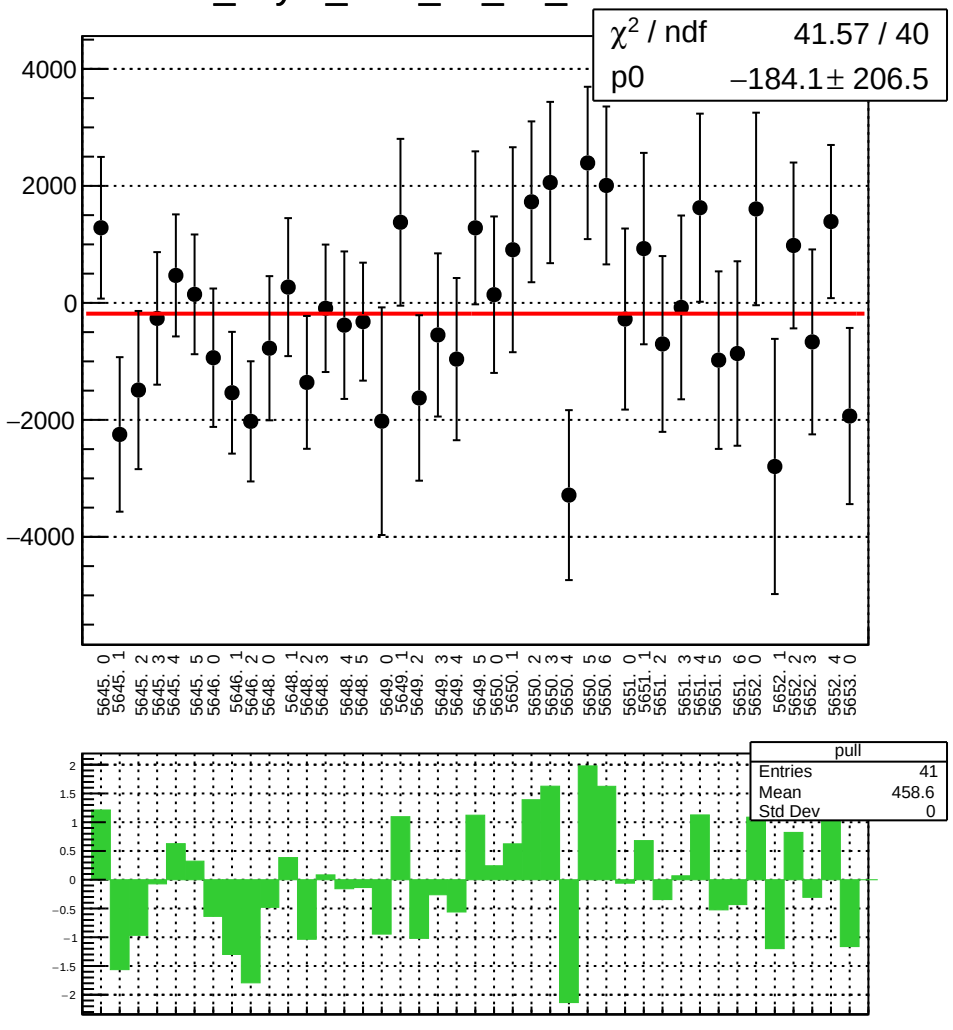

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 35.59 / 40
p0 −166.3 ± 172.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −157.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

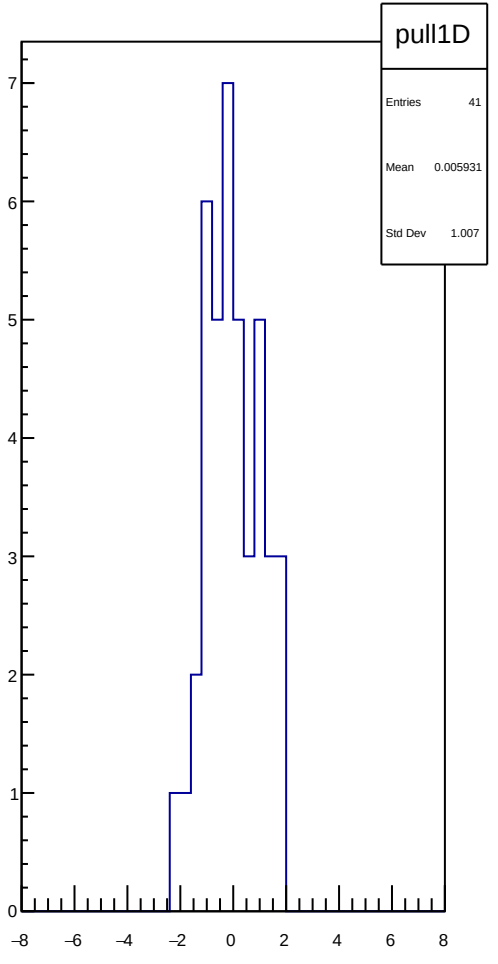

pull1D
Entries 41
Mean −0.005927
Std Dev 0.9317
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

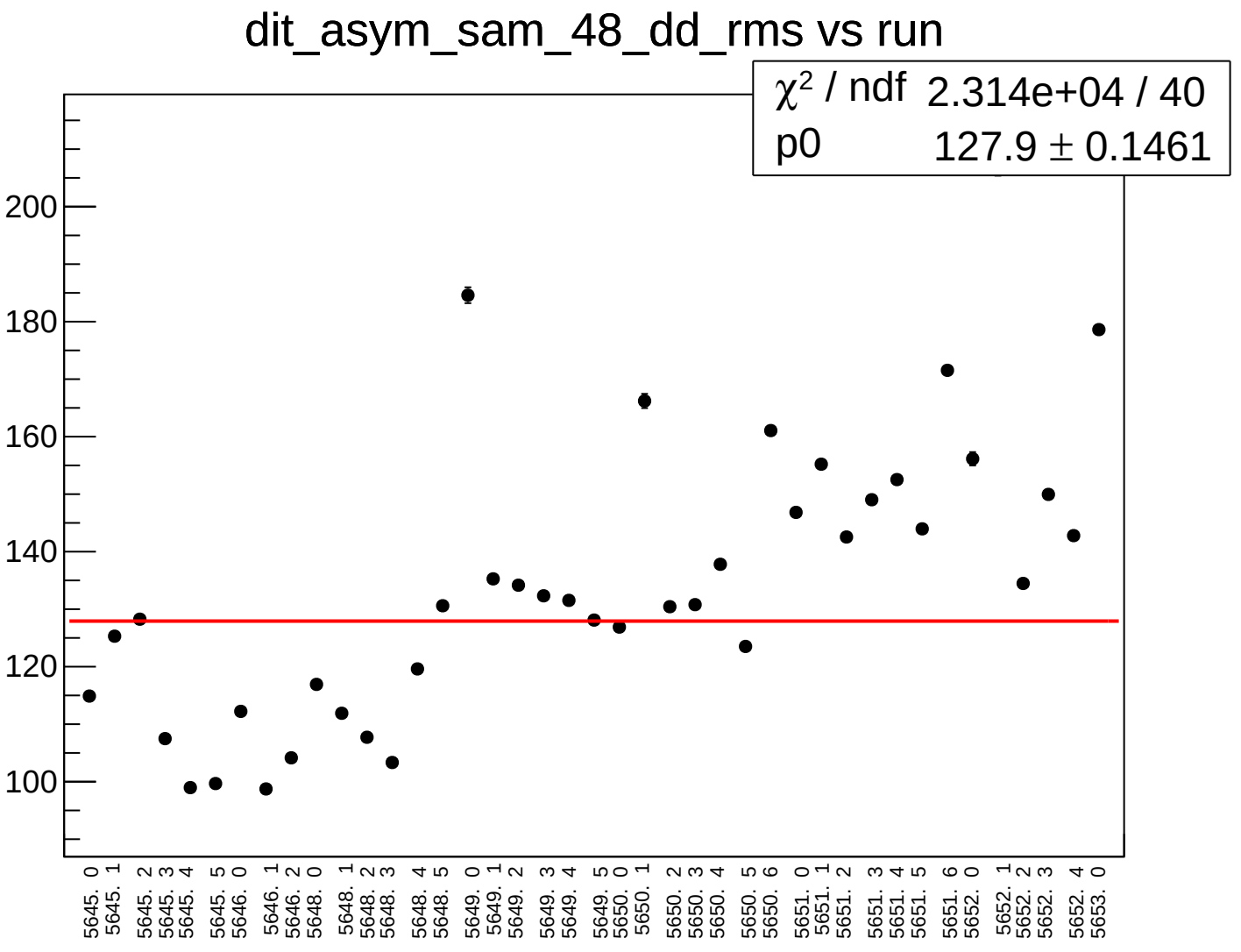

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.039e+04 / 40
p0 107.5 ± 0.1217
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

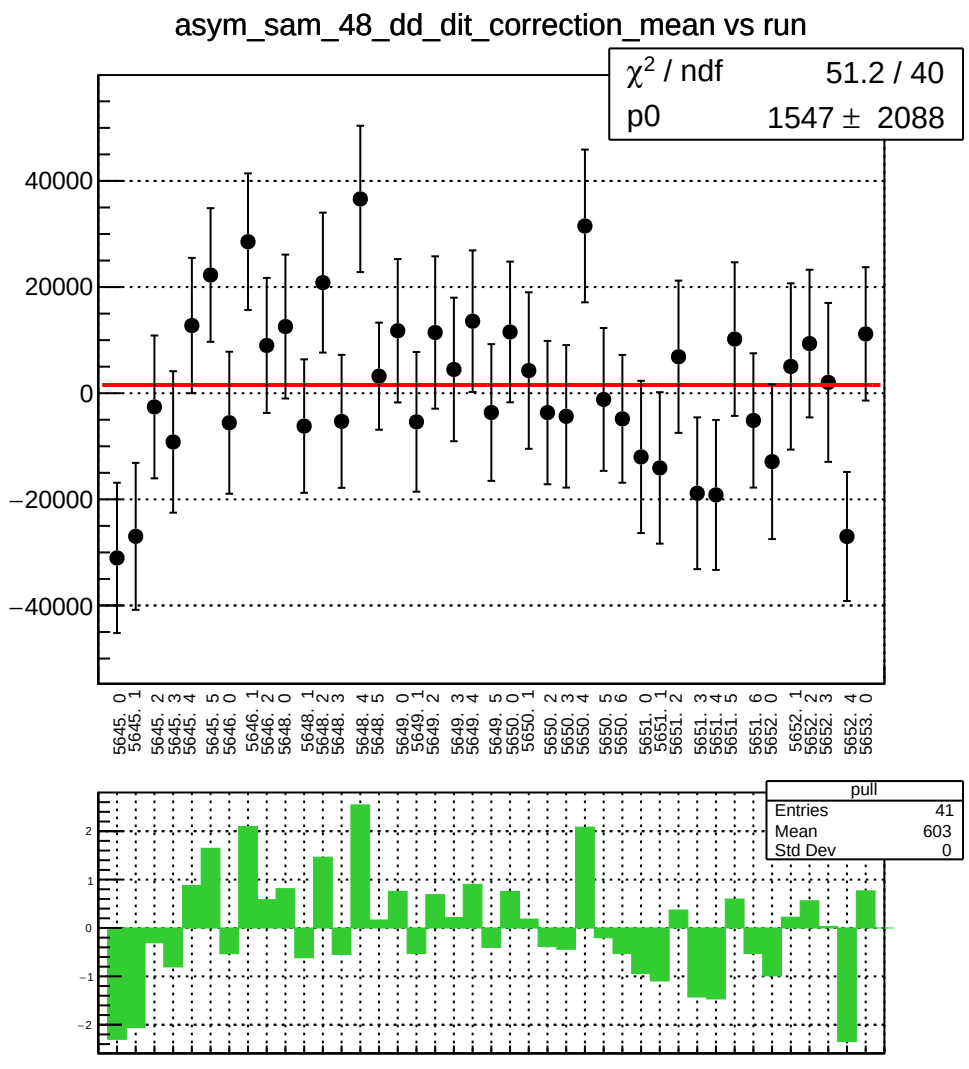

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 51.54 / 40
p0 1605 ± 2166
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 327.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.00559
Std Dev 1.121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

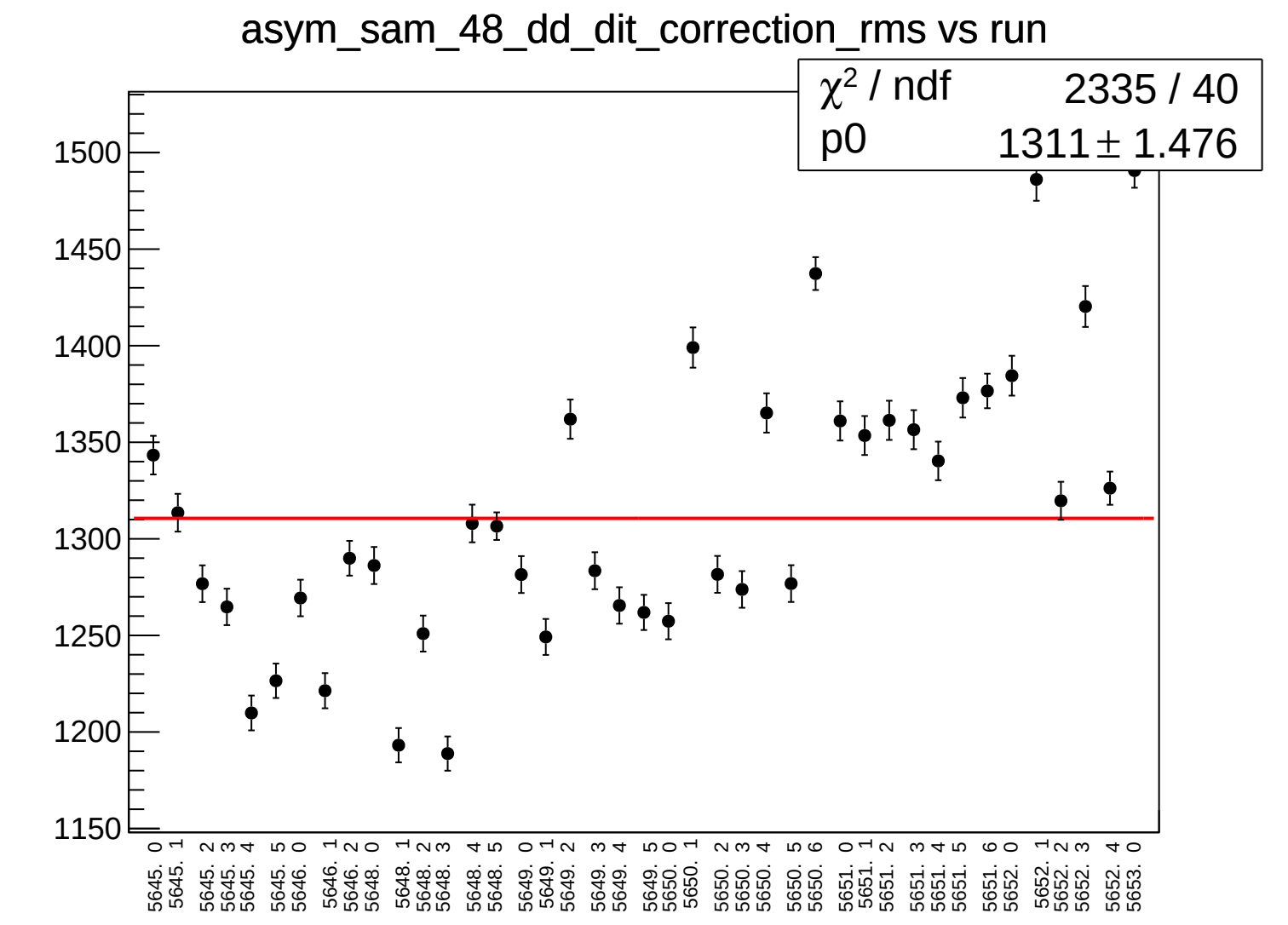

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4258 / 40
p0 1358 ± 1.531
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

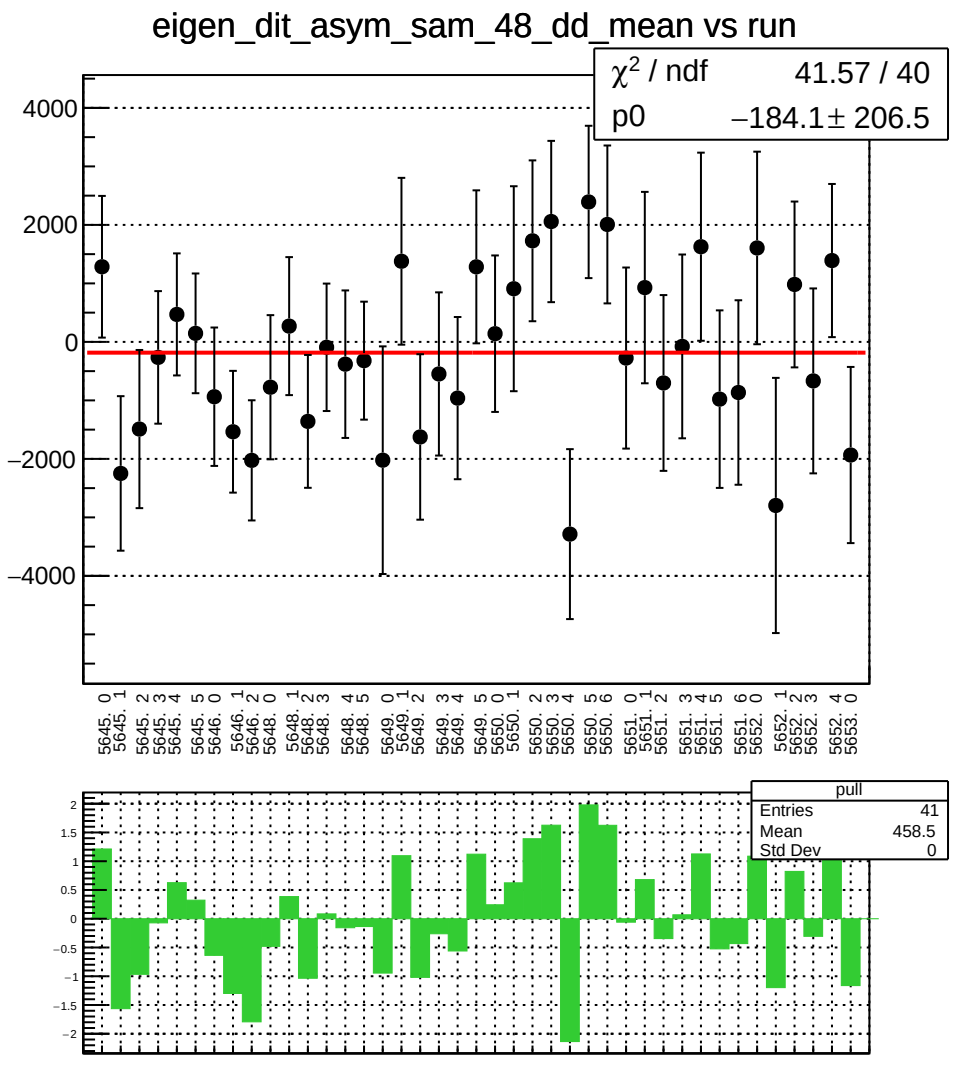

dit_asym_sam_48_dd_mean vs run
χ² / ndf 41.57 / 40
p0 −184.1± 206.5
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 458.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

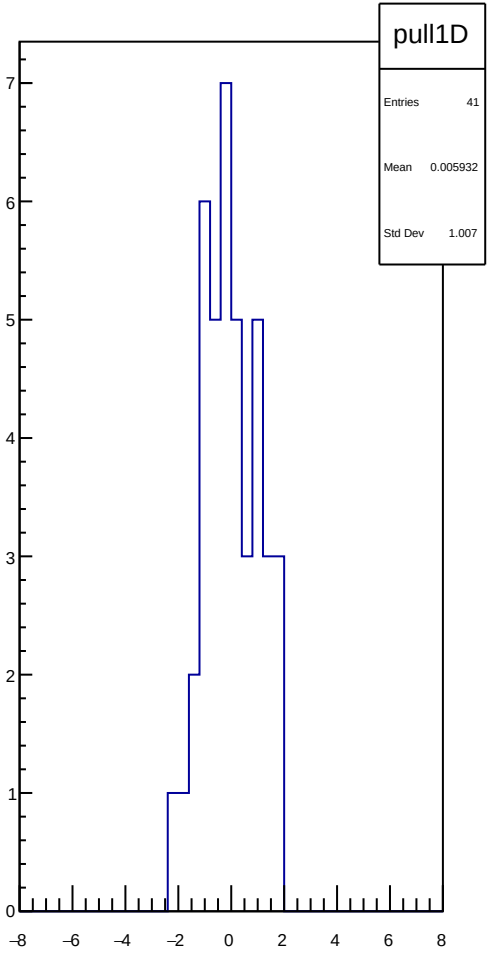

pull1D
Entries 41
Mean 0.005931
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

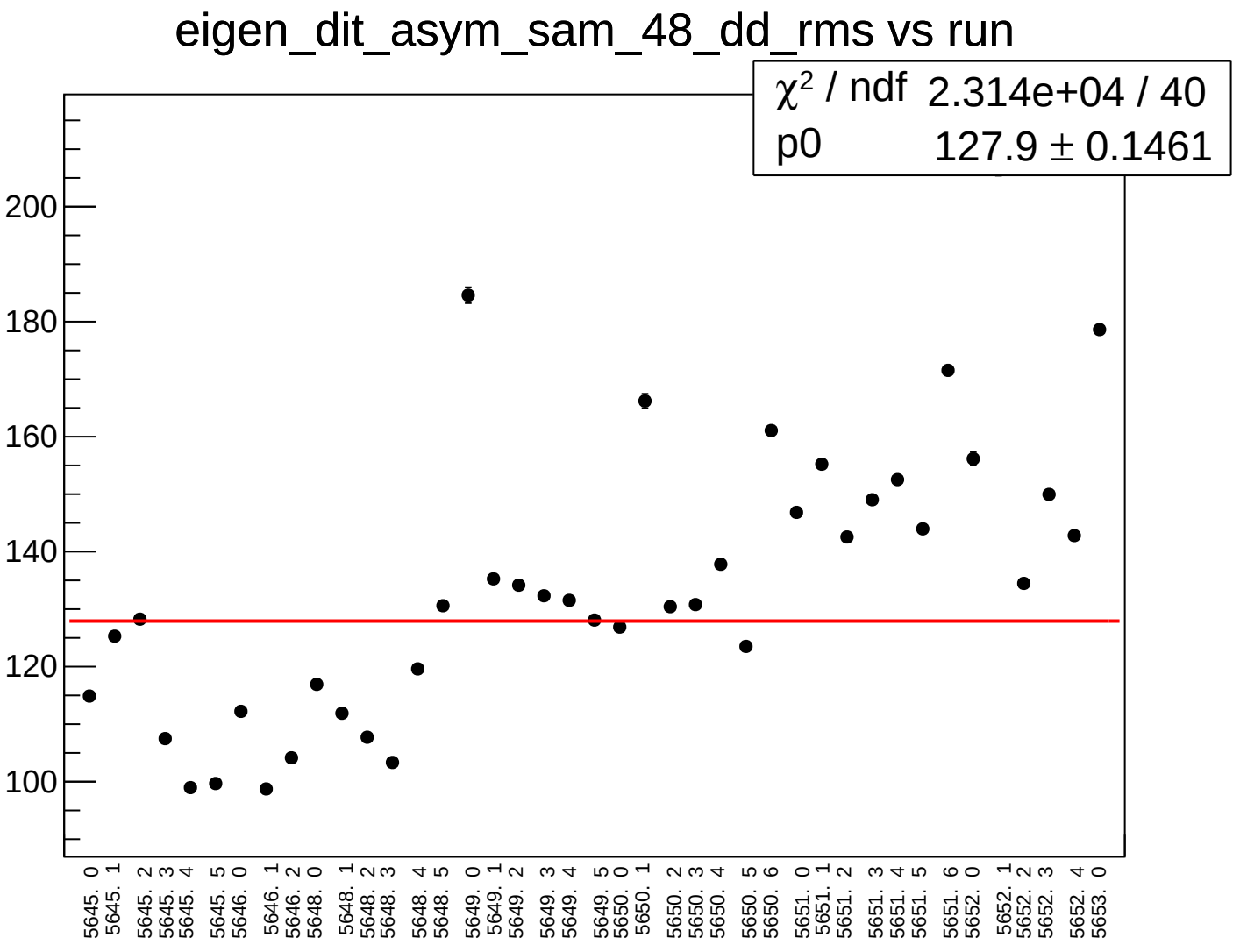

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.314e+04 / 40
p0 127.9 ± 0.1461
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

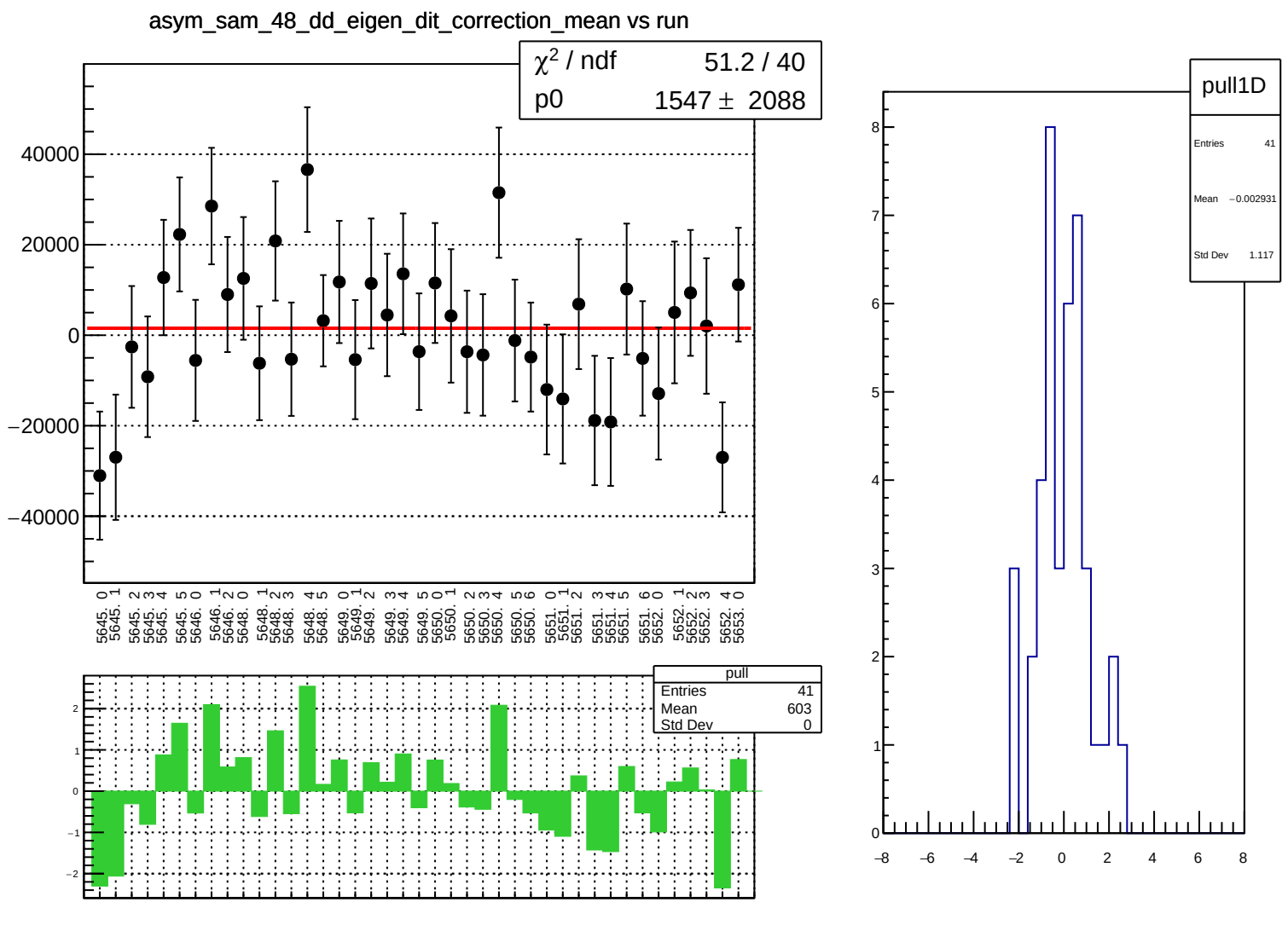

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 51.2 / 40
p0 1547 ± 2088
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 603
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002931
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

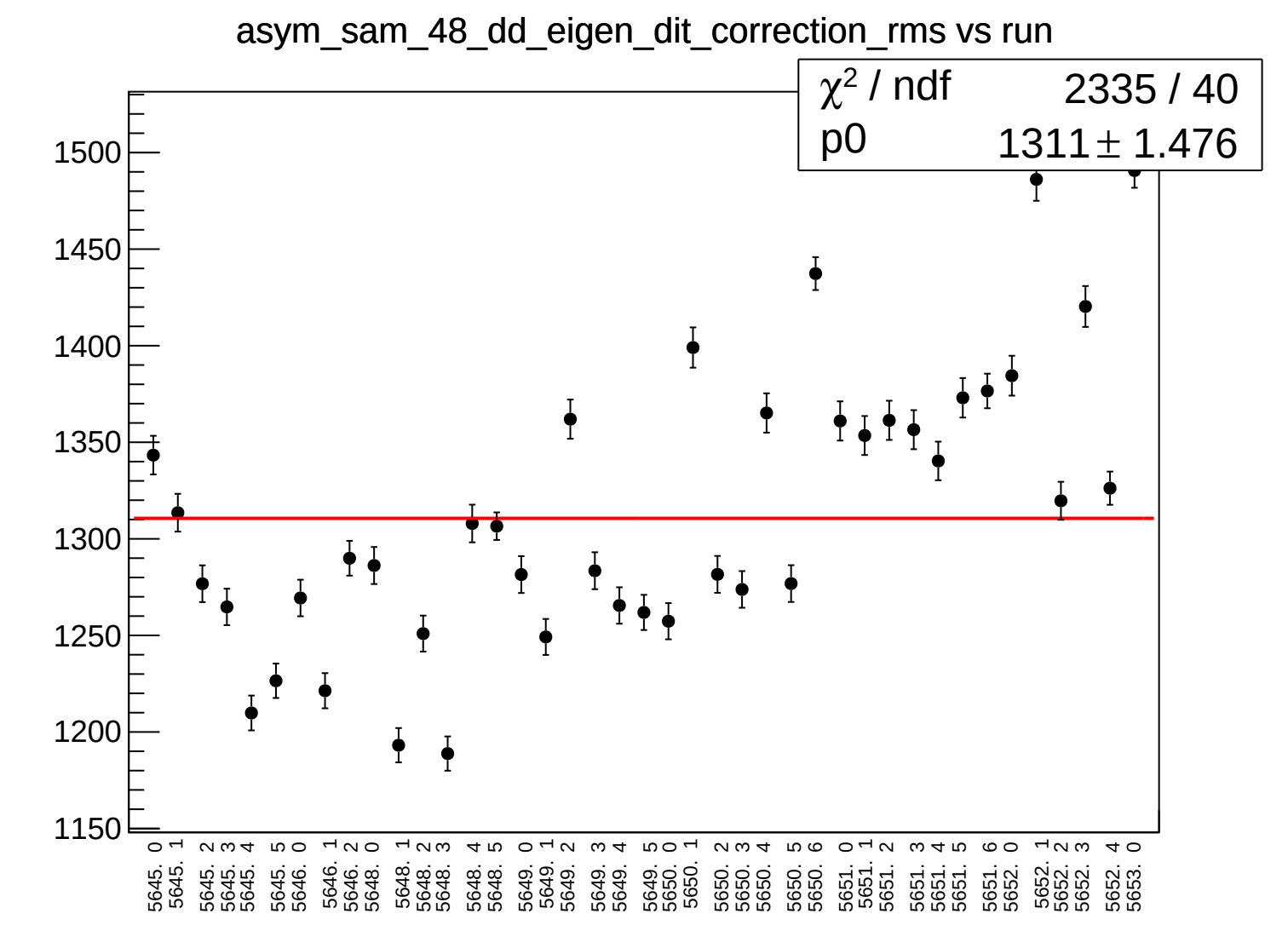

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2335 / 40
p0 1311 ± 1.476
1500
1450
1400
1350
1300
1250
1200
1150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

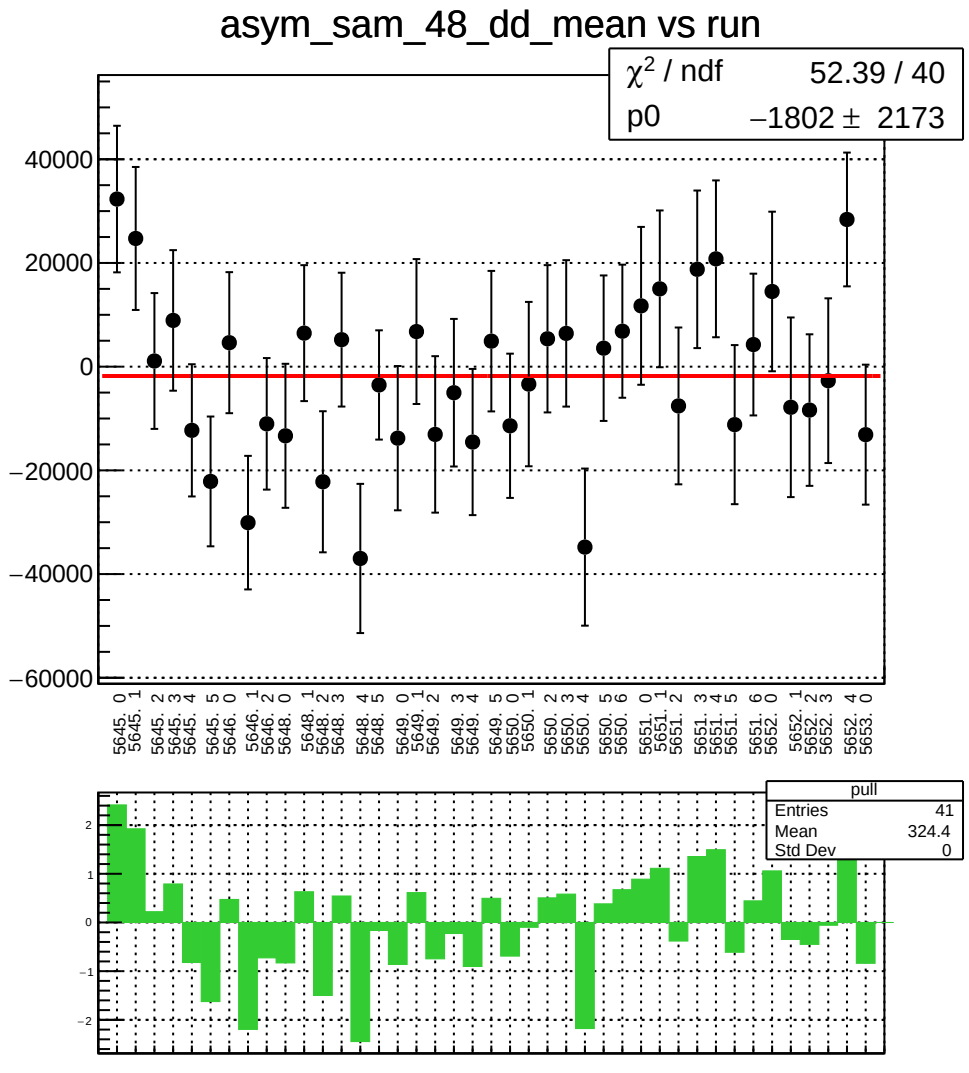

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 41.57 / 40
p0 −184.1± 206.5
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 458.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

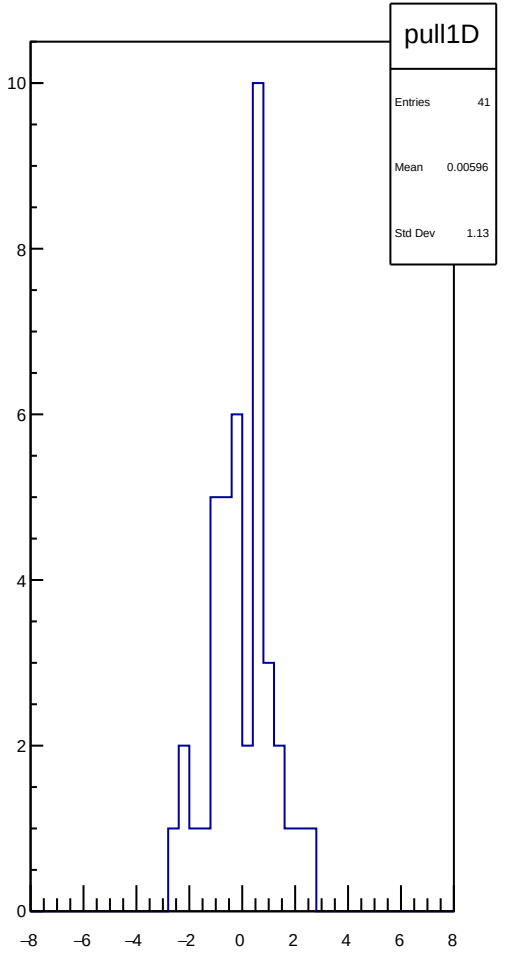

pull1D
Entries 41
Mean 0.005932
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

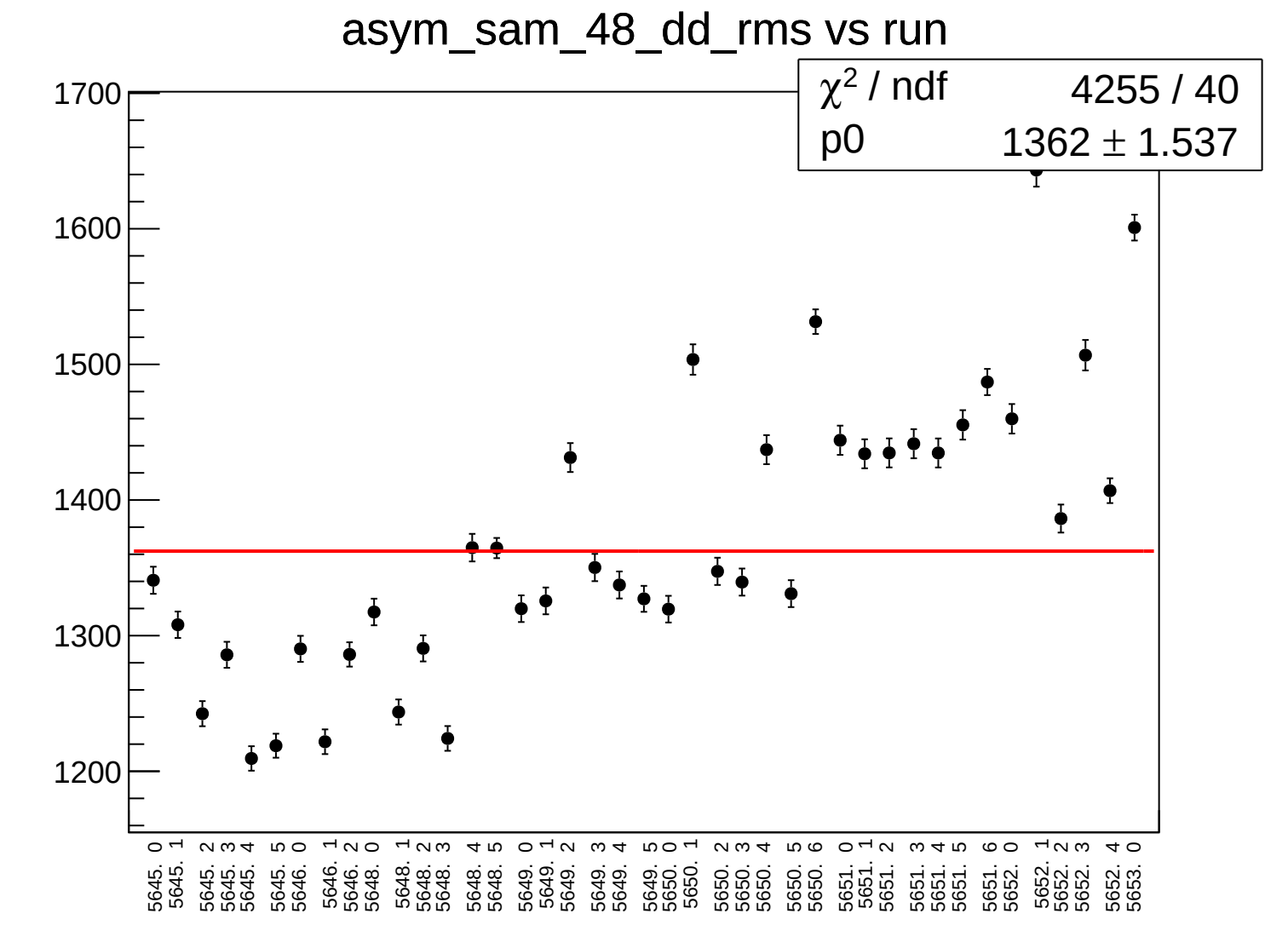

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.314e+04 / 40
p0 127.9 ± 0.1461
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

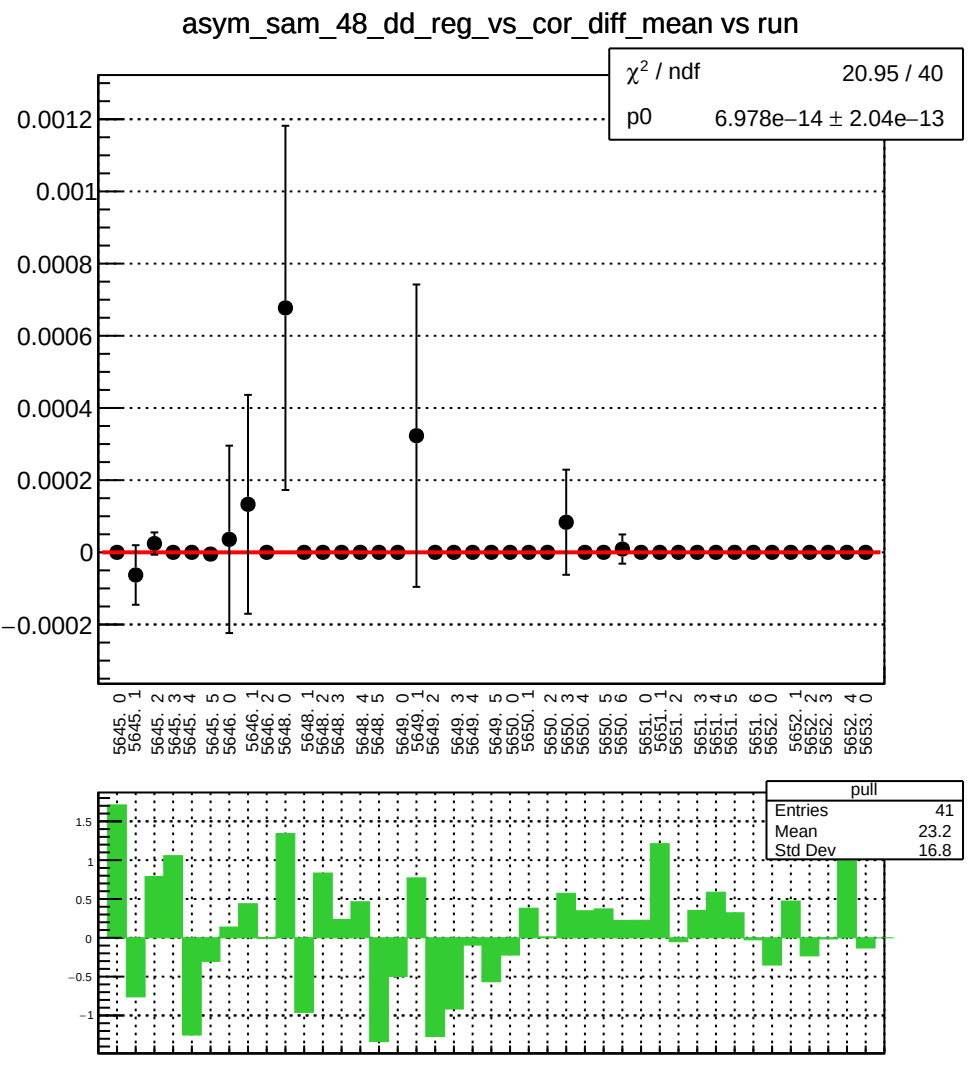

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 51.2 / 40
p0 1547 ± 2088
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 603
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002931
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

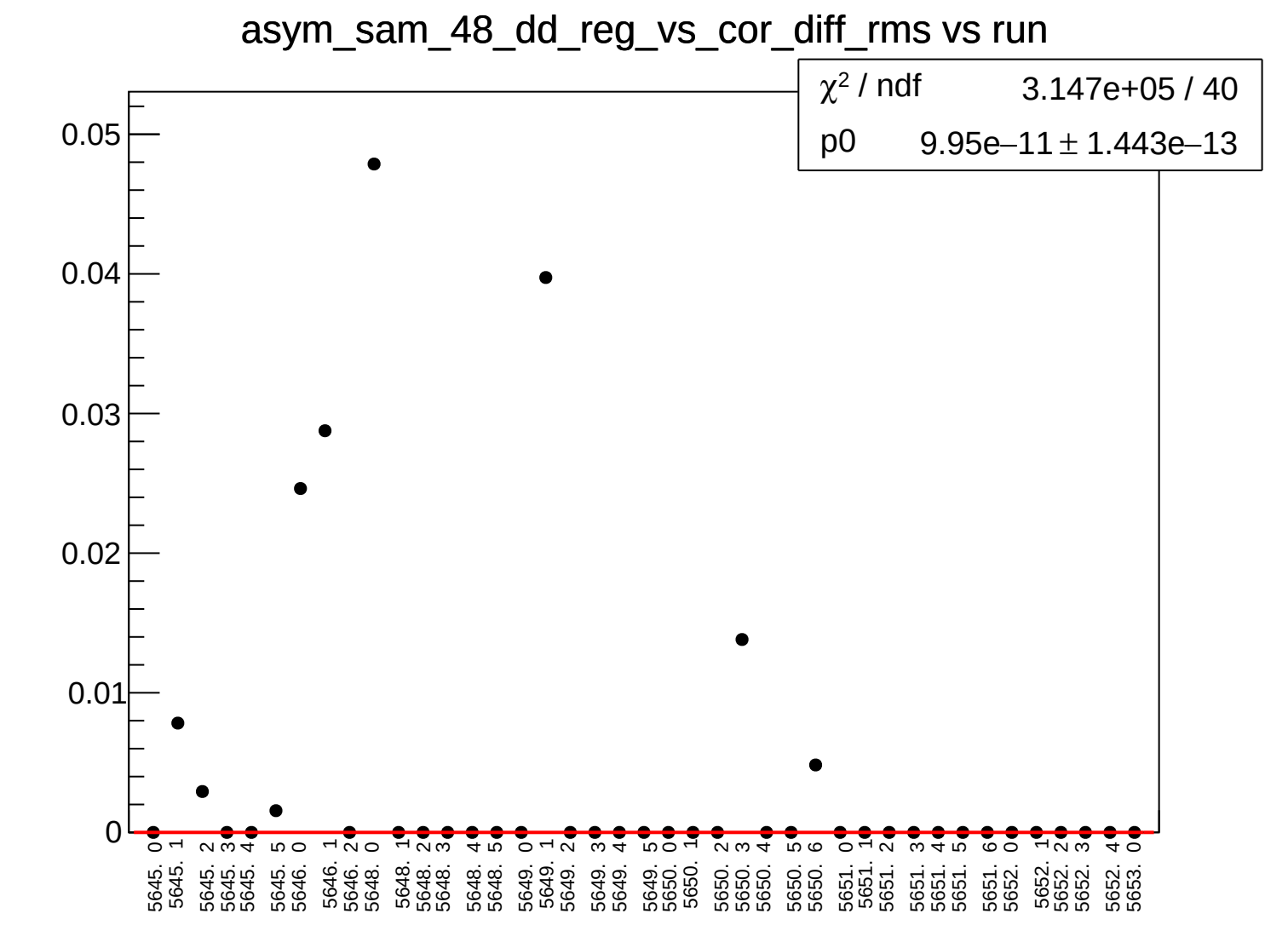

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2335 / 40
p0 1311 ± 1.476
1500
1450
1400
1350
1300
1250
1200
1150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

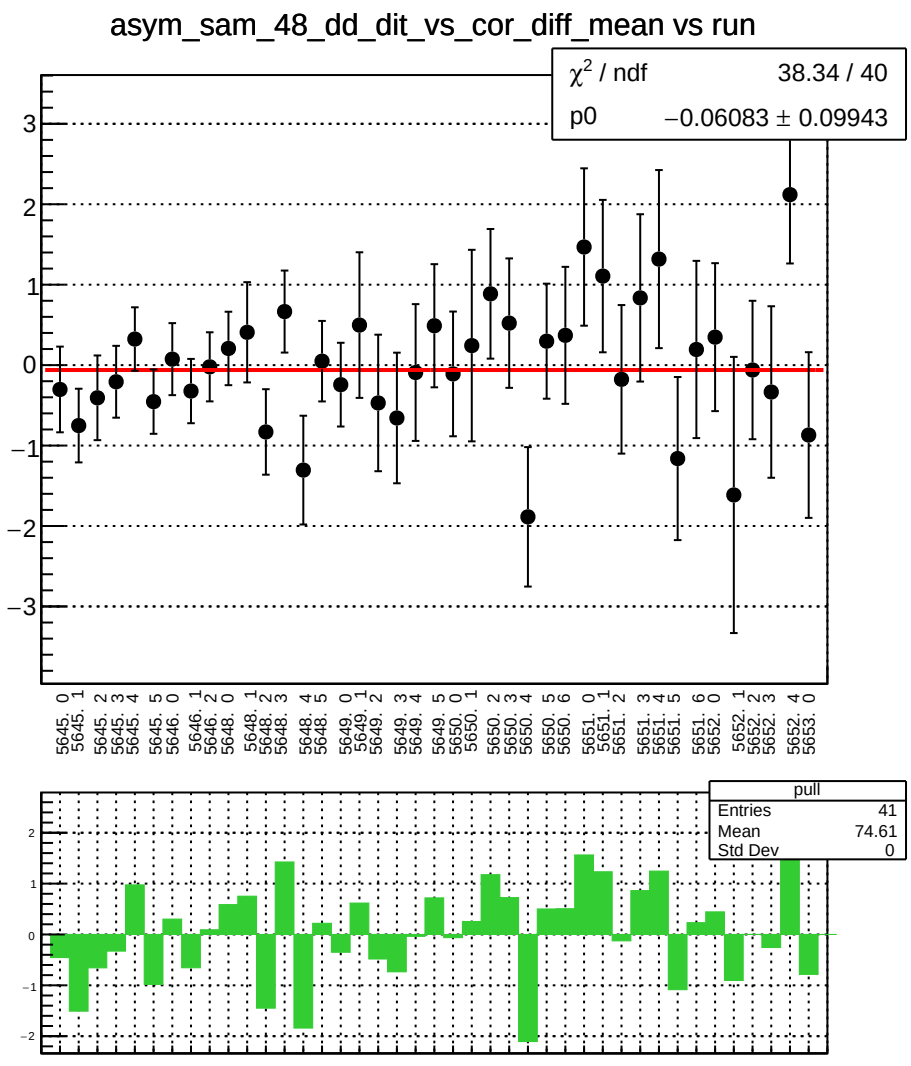

asym_sam_48_dd_mean vs run
χ² / ndf 52.39 / 40
p0 −1802 ± 2173
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 324.4
Std Dev 0
2
1
0
−1
−2

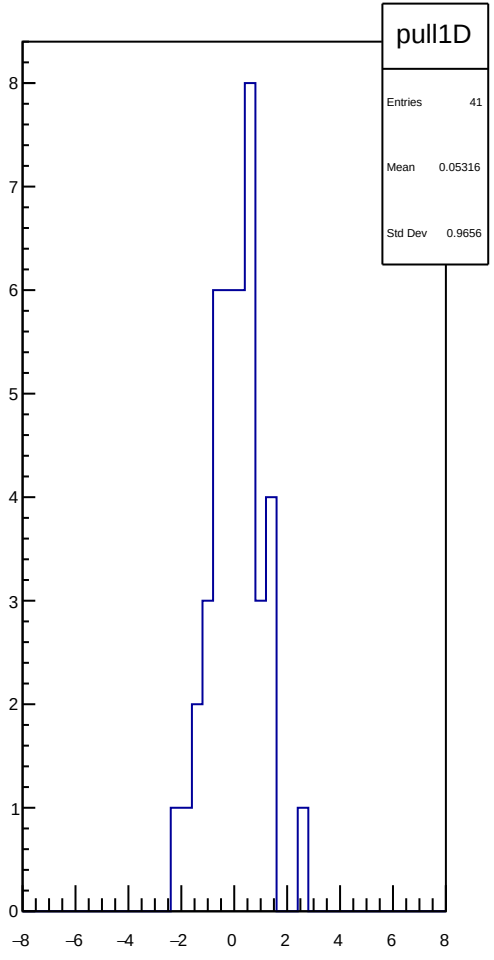

pull1D
Entries 41
Mean 0.00596
Std Dev 1.13
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

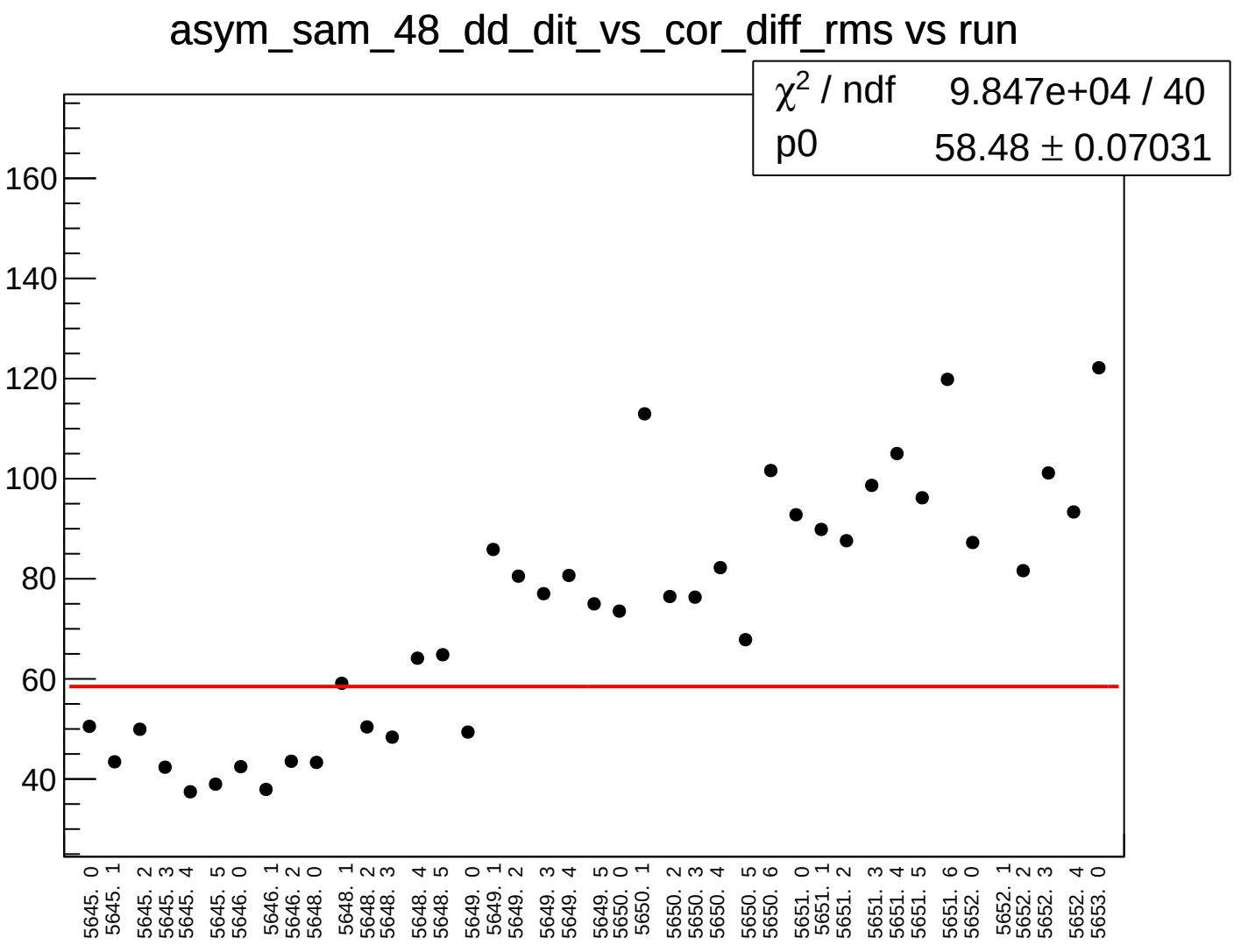

asym_sam_48_dd_rms vs run
χ² / ndf 4255 / 40
p0 1362 ± 1.537
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

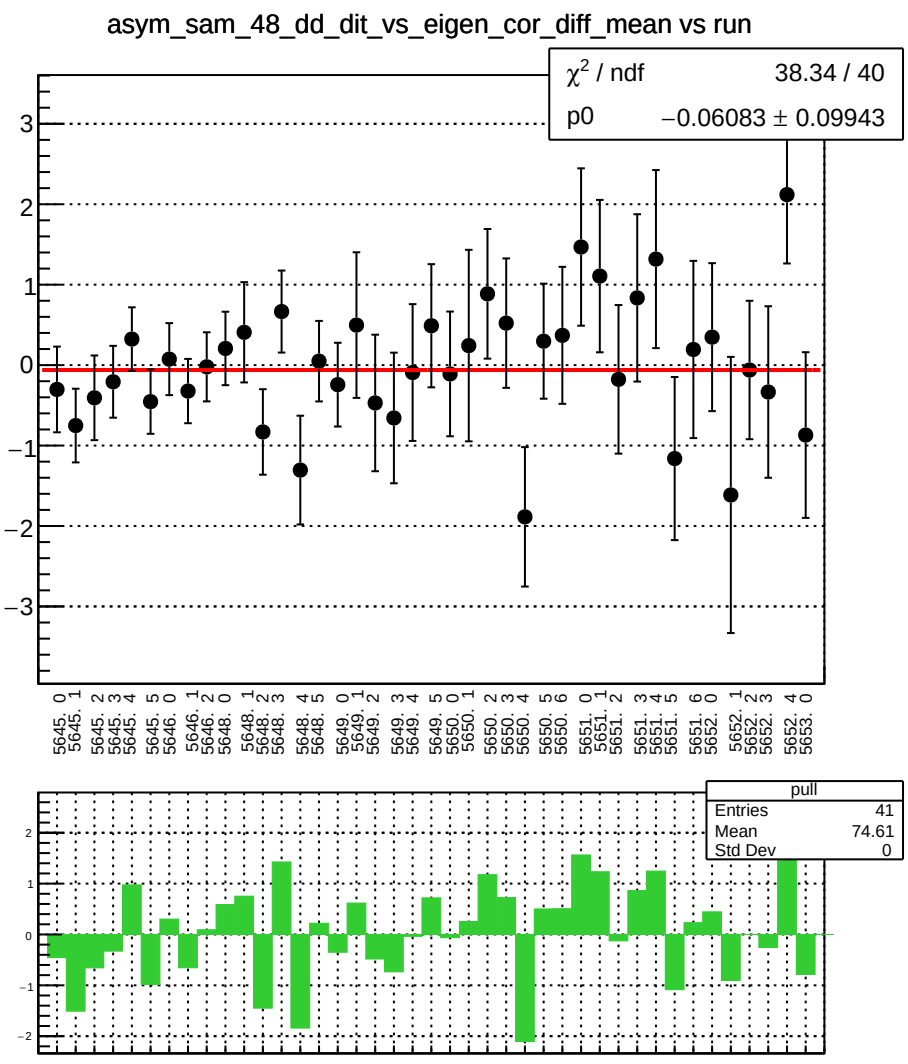

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 20.95 / 40
p0 6.978e−14 ± 2.04e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.2
Std Dev 16.8
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.1233
Std Dev 0.7042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

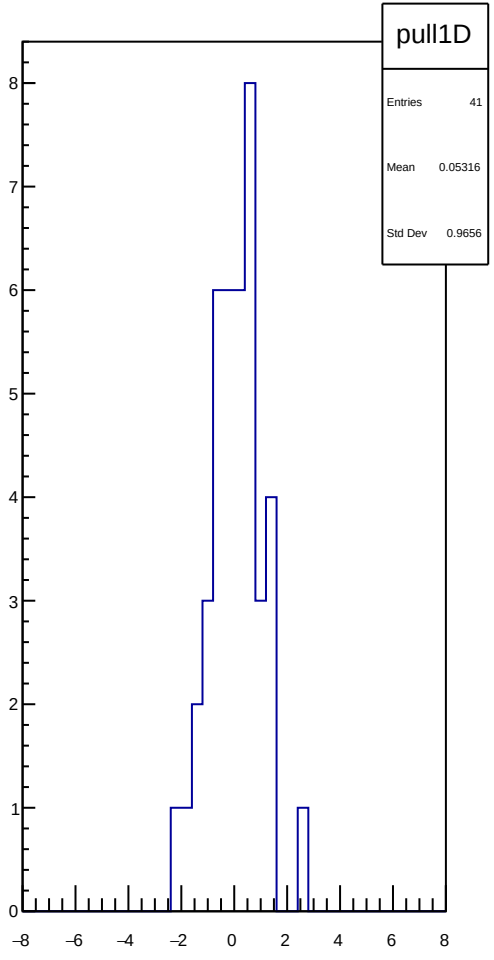

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.147e+05 / 40
p0 9.95e−11 ± 1.443e−13
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

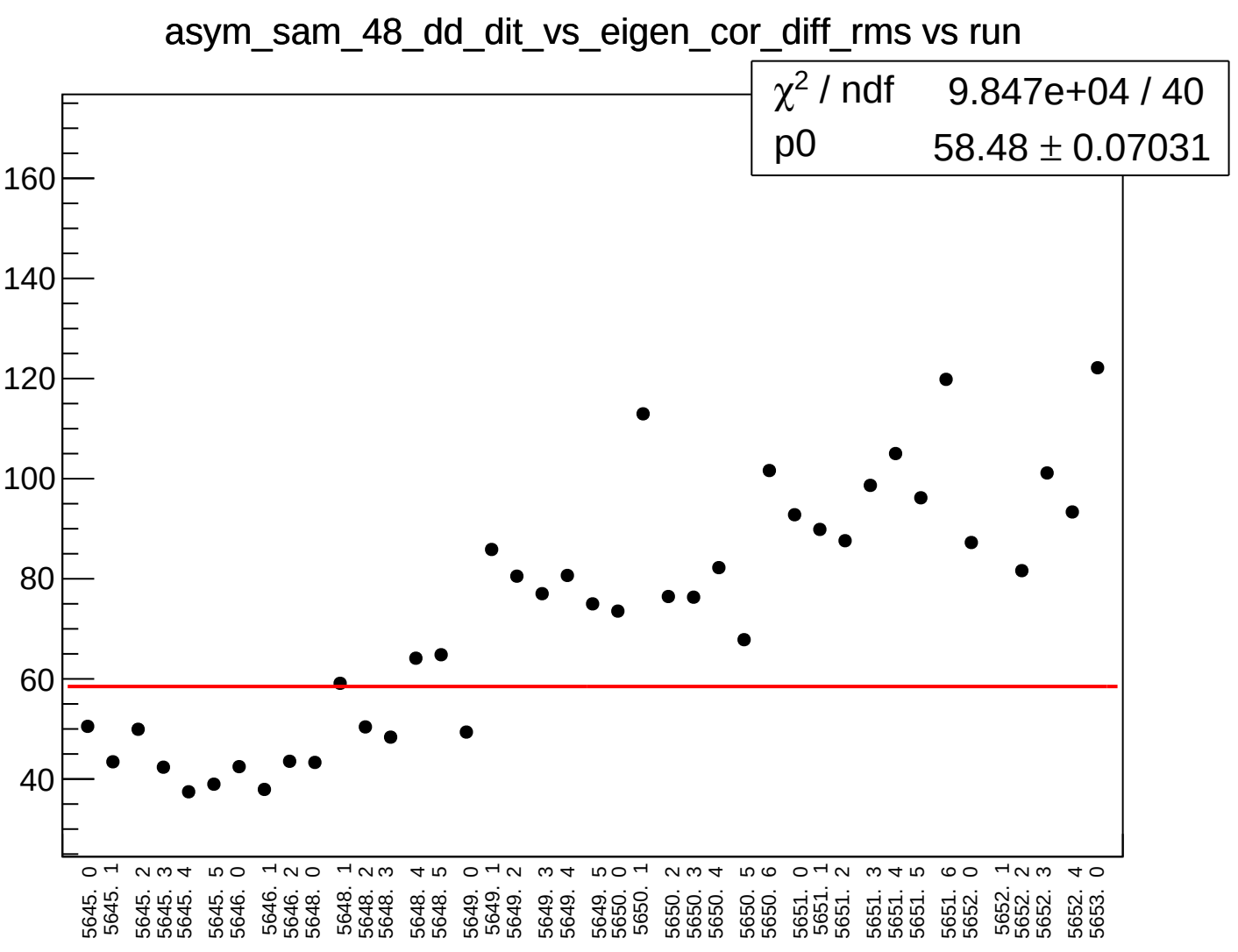

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.34 / 40
p0 −0.06083 ± 0.09943
pull
Entries 41
Mean 74.61
Std Dev 0

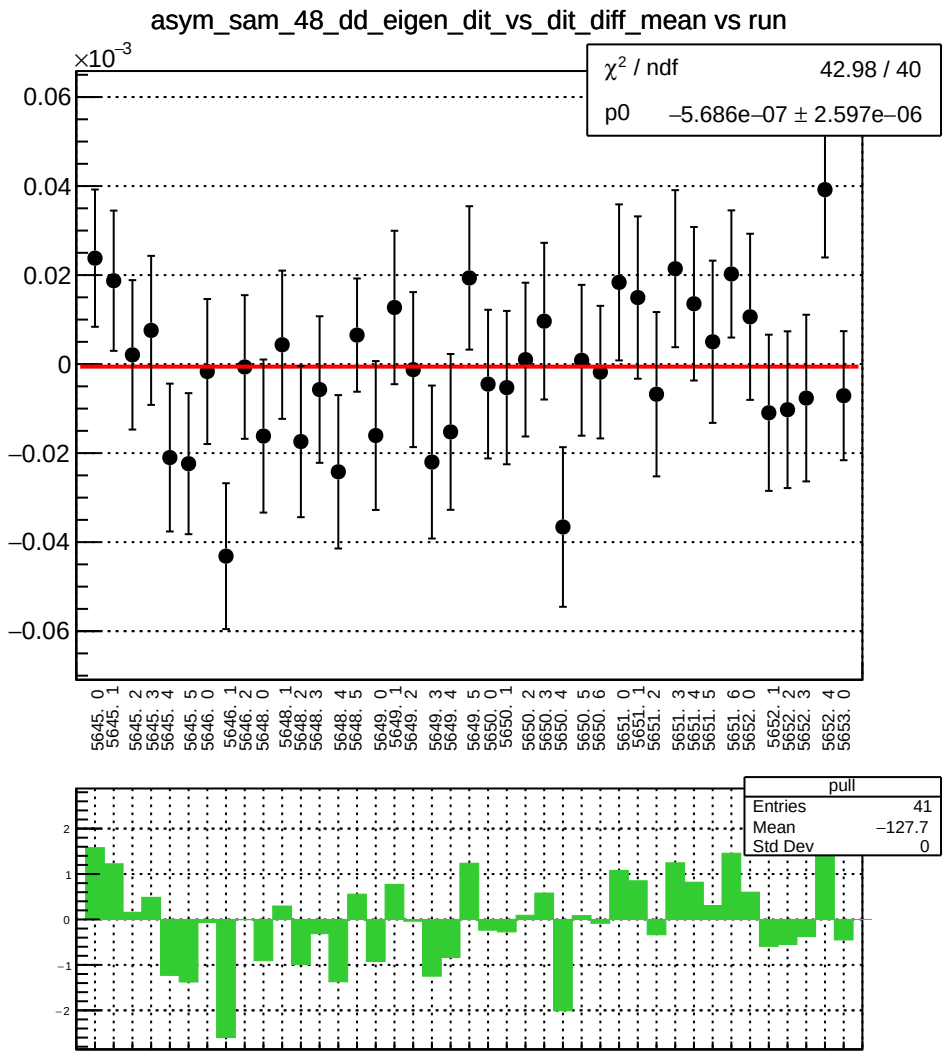

pull1D
Entries 41
Mean 0.05316
Std Dev 0.9656

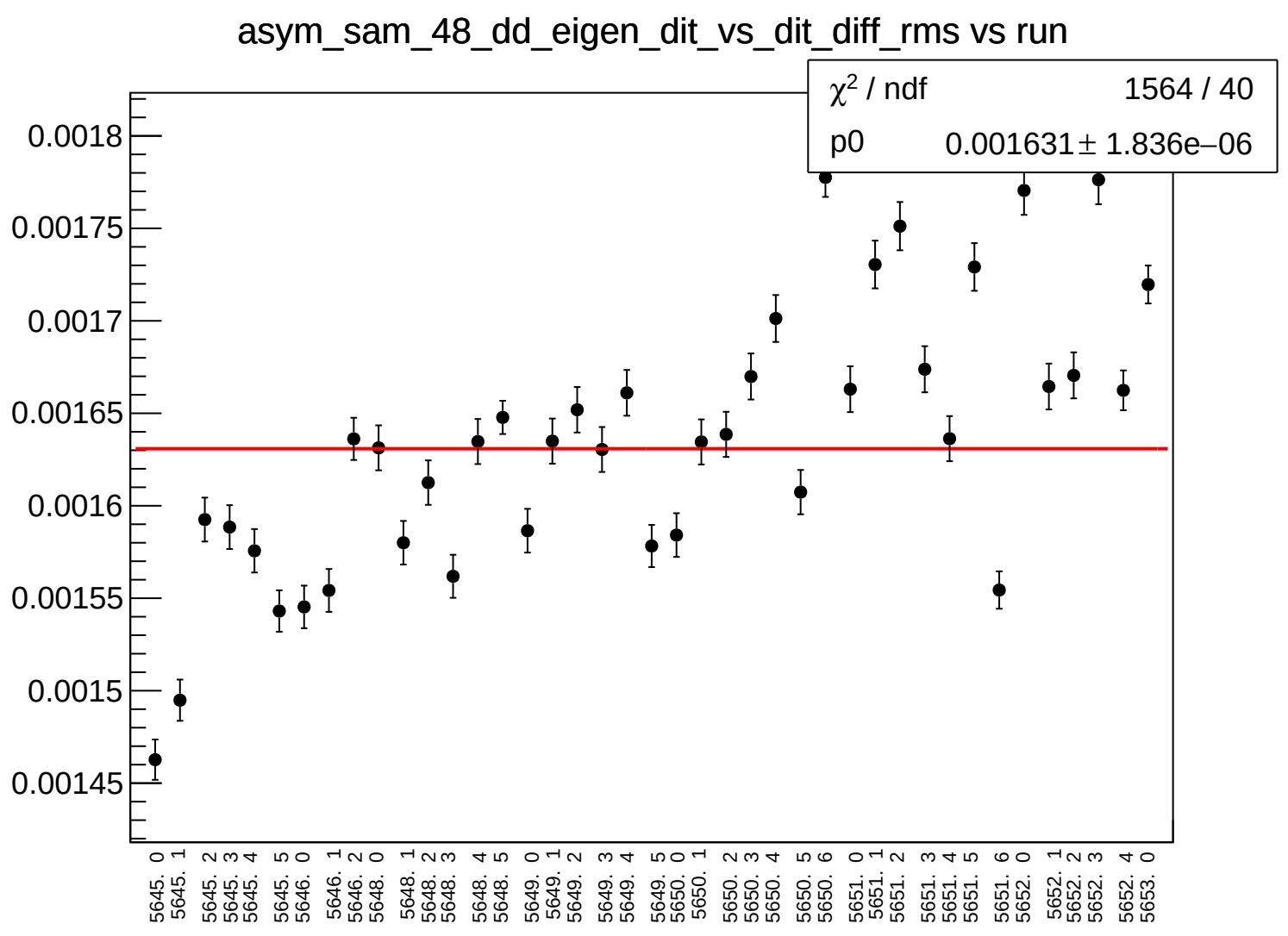

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.847e+04 / 40
p0 58.48 ± 0.07031
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

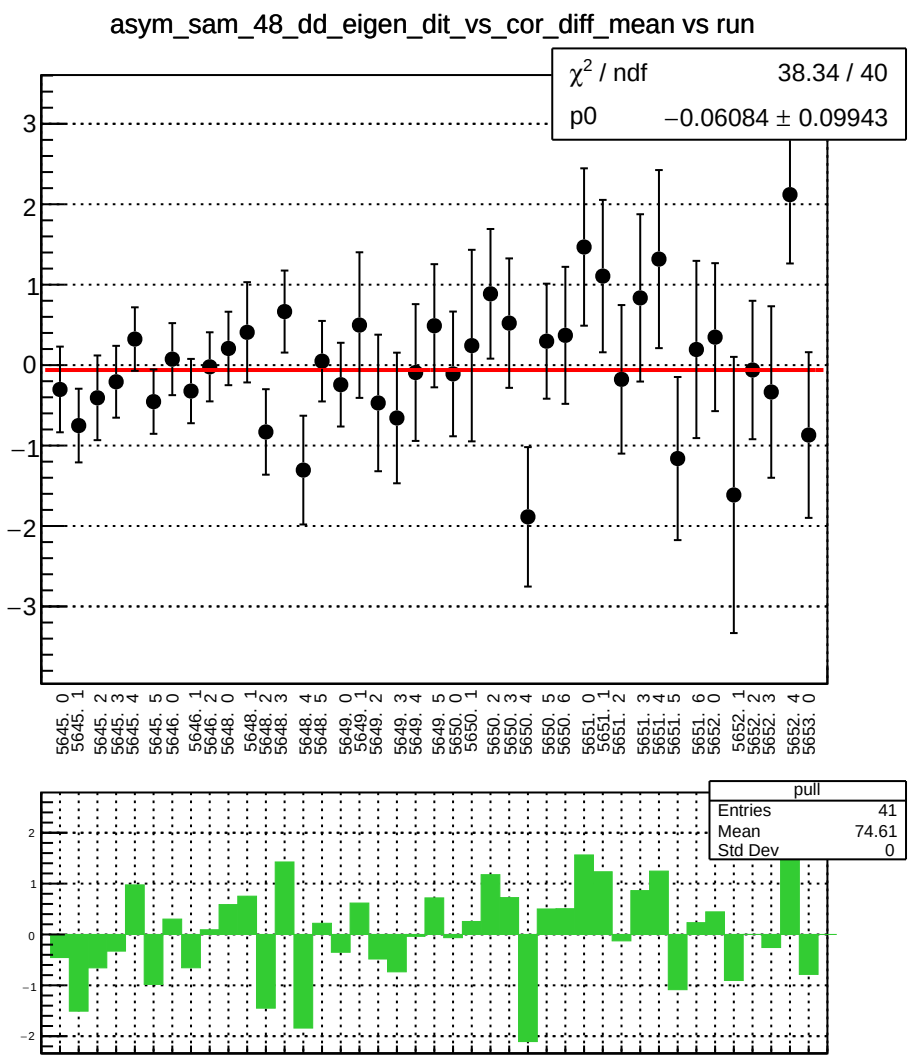

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.34 / 40
p0 −0.06083 ± 0.09943
pull
Entries 41
Mean 74.61
Std Dev 0

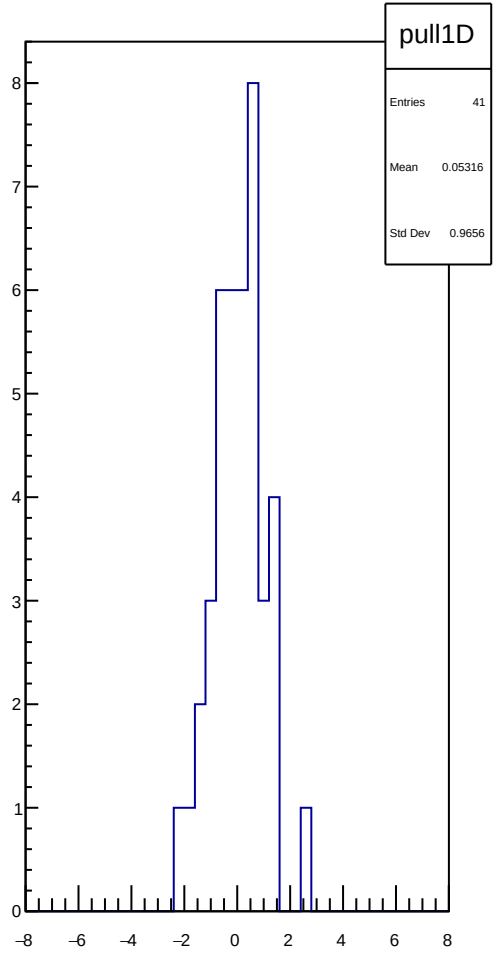

pull1D
Entries 41
Mean 0.05316
Std Dev 0.9656

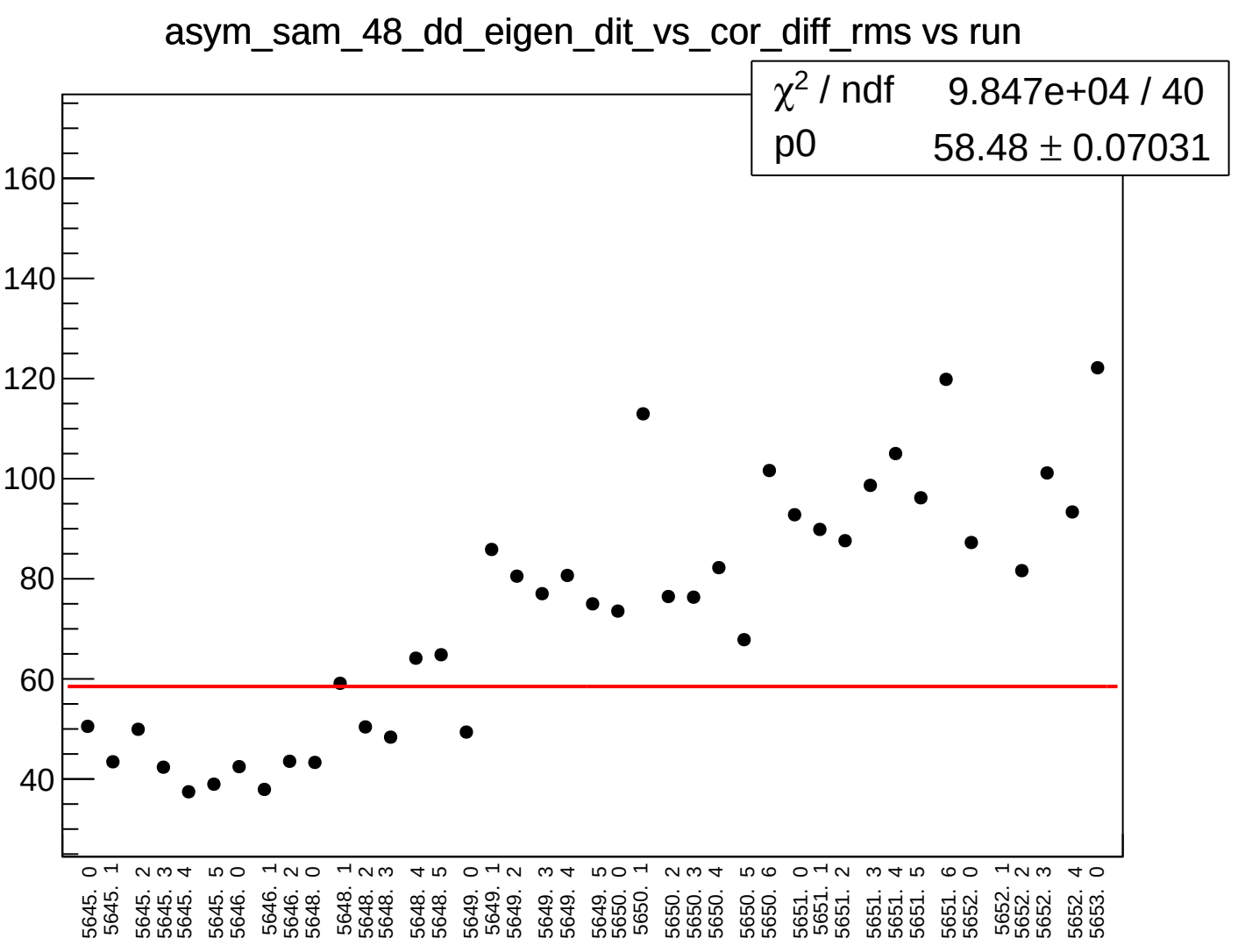

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.847e+04 / 40
p0 58.48 ± 0.07031
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

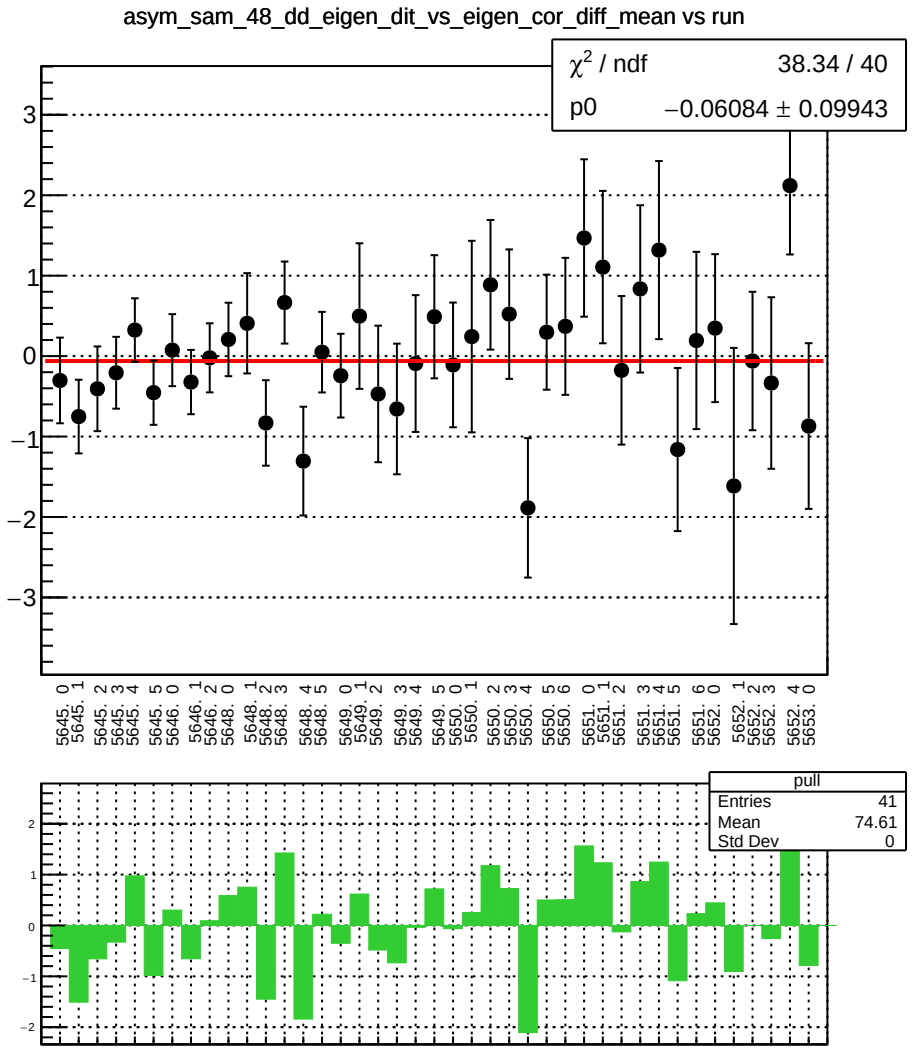

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 42.98 / 40
p0 −5.686e−07 ± 2.597e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −127.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.01898
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

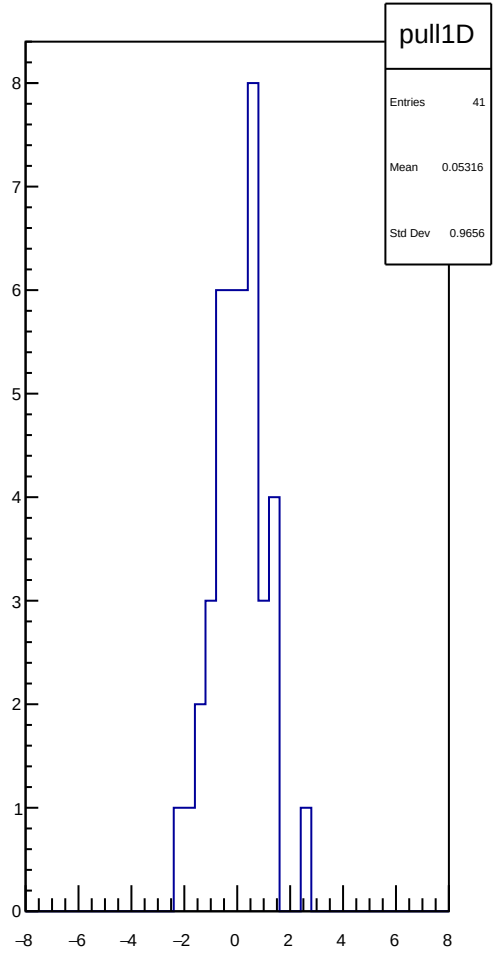

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1564 / 40
p0 0.001631 ± 1.836e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

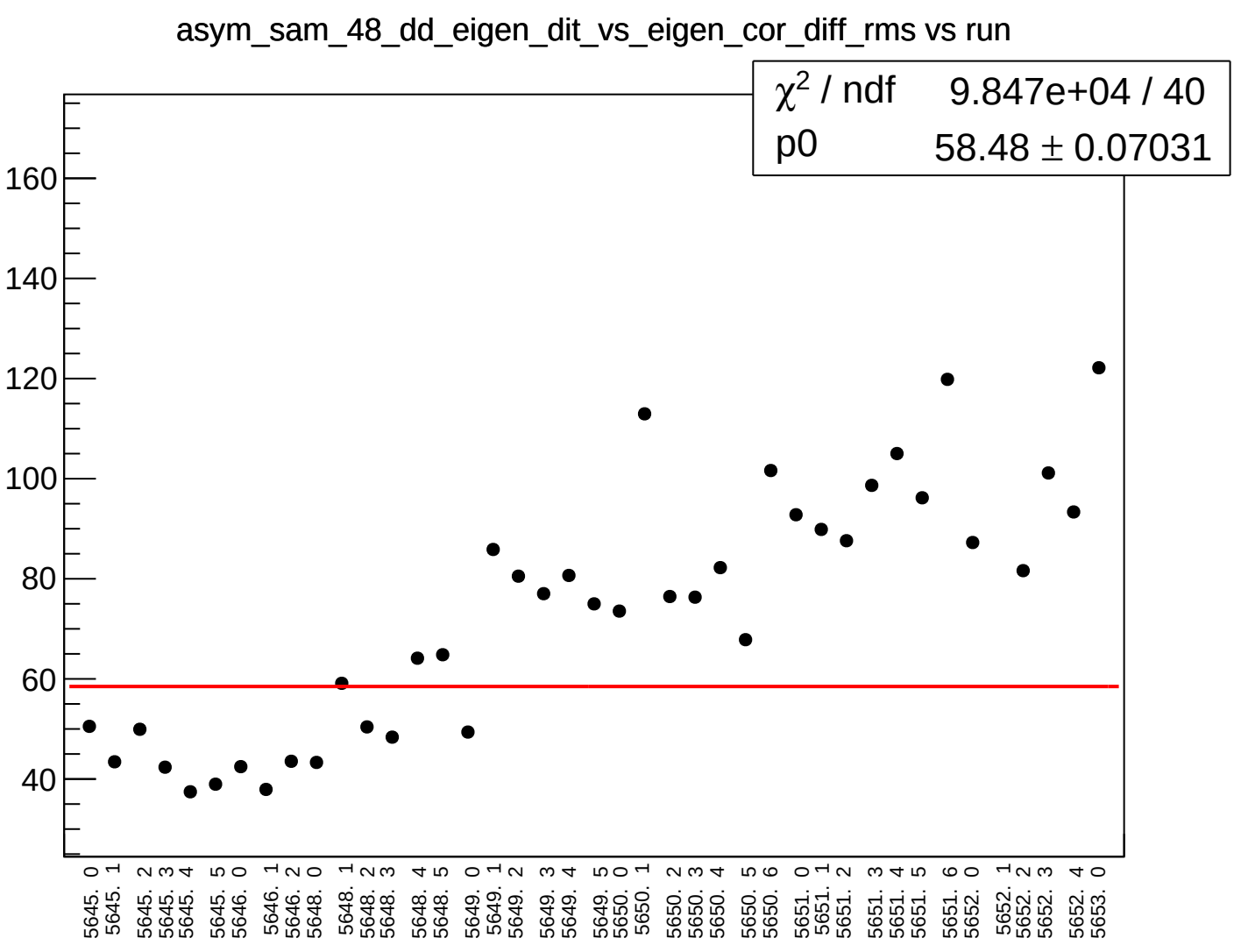

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.34 / 40
p0 −0.06084 ± 0.09943
pull
Entries 41
Mean 74.61
Std Dev 0

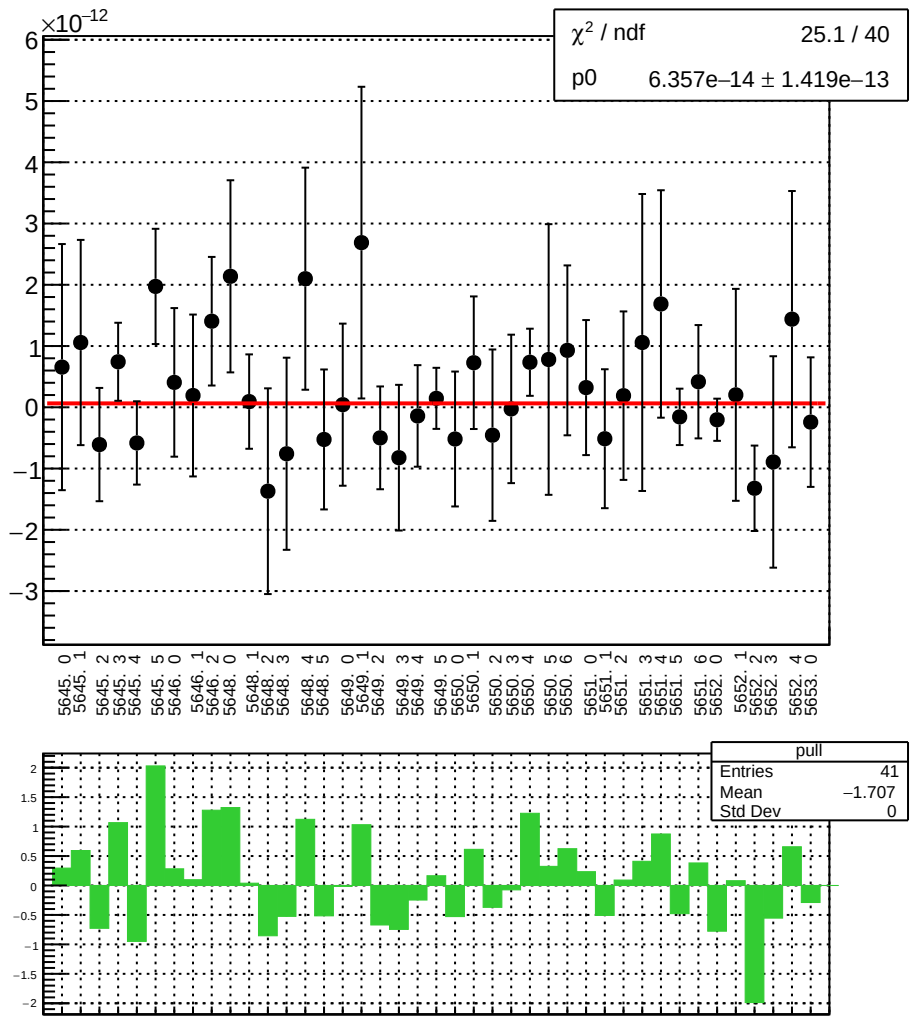

pull1D
Entries 41
Mean 0.05316
Std Dev 0.9656

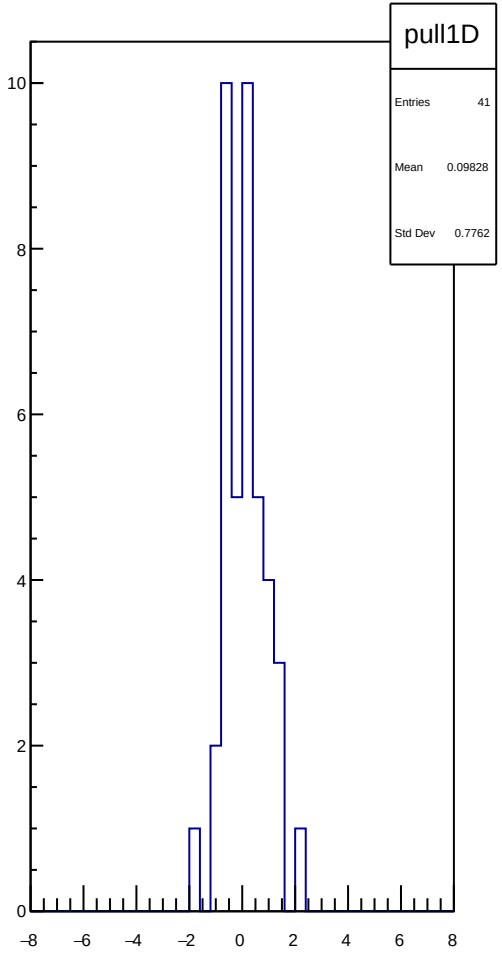

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.847e+04 / 40
p0 58.48 ± 0.07031
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

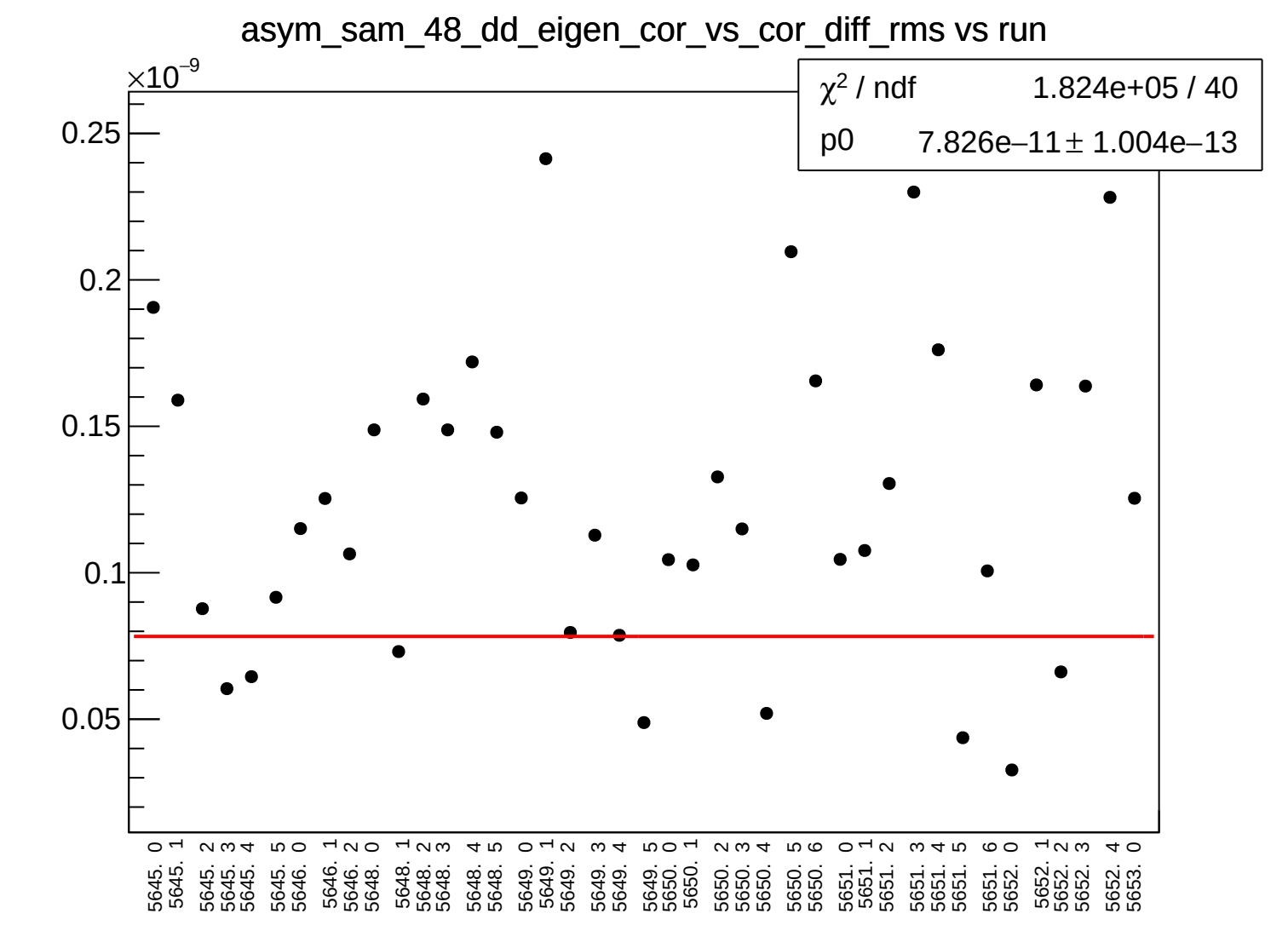

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.34 / 40
p0 −0.06084 ± 0.09943
pull
Entries 41
Mean 74.61
Std Dev 0

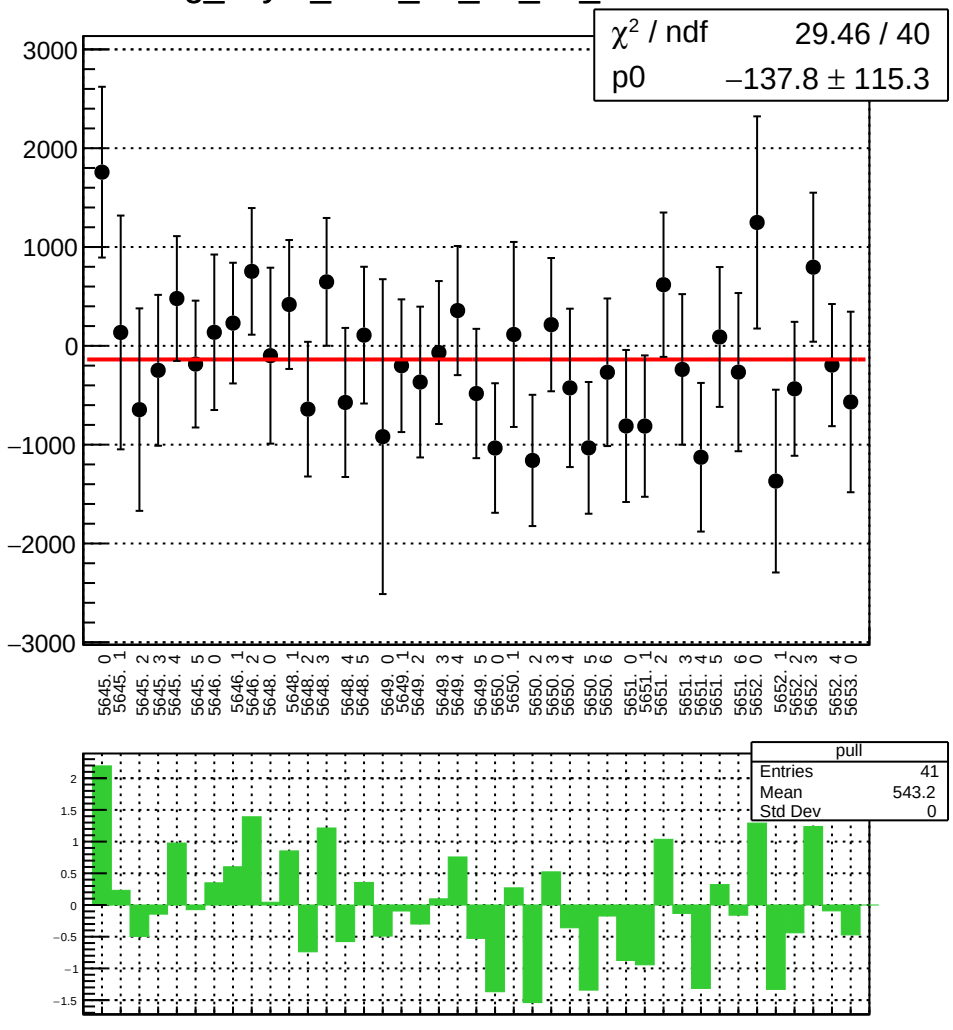

pull1D
Entries 41
Mean 0.05316
Std Dev 0.9656

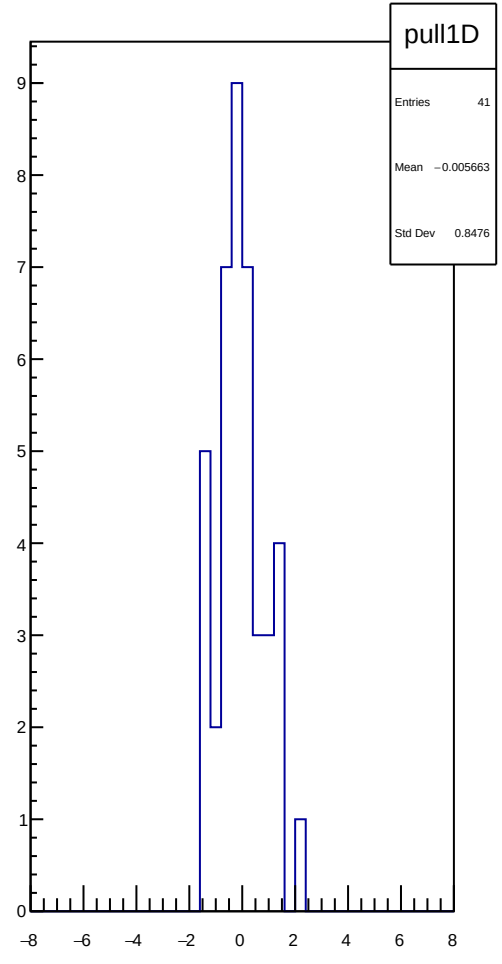

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.847e+04 / 40
p0 58.48 ± 0.07031
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

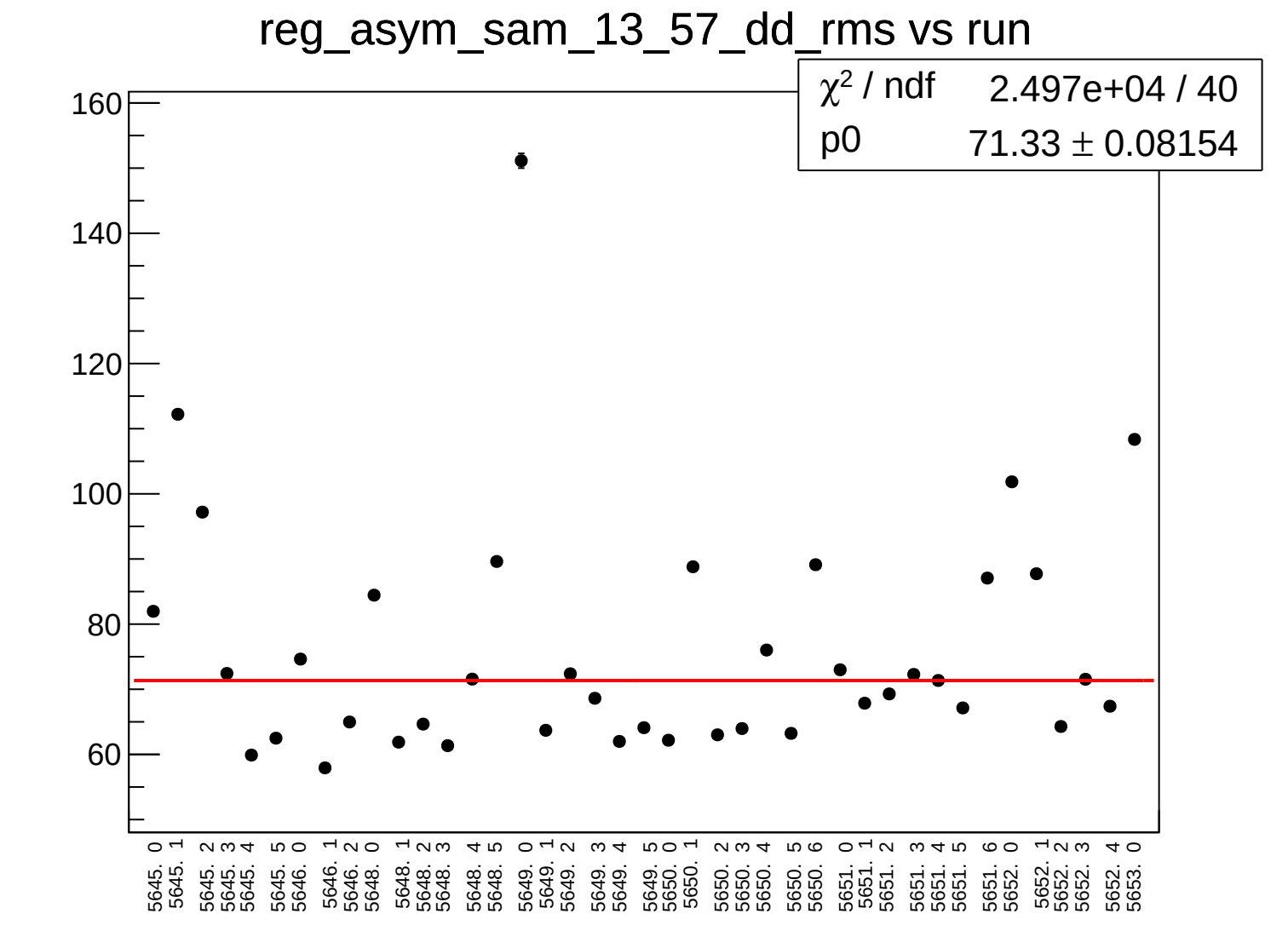

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.1 / 40
p0 6.357e−14 ± 1.419e−13
pull
Entries 41
Mean −1.707
Std Dev 0

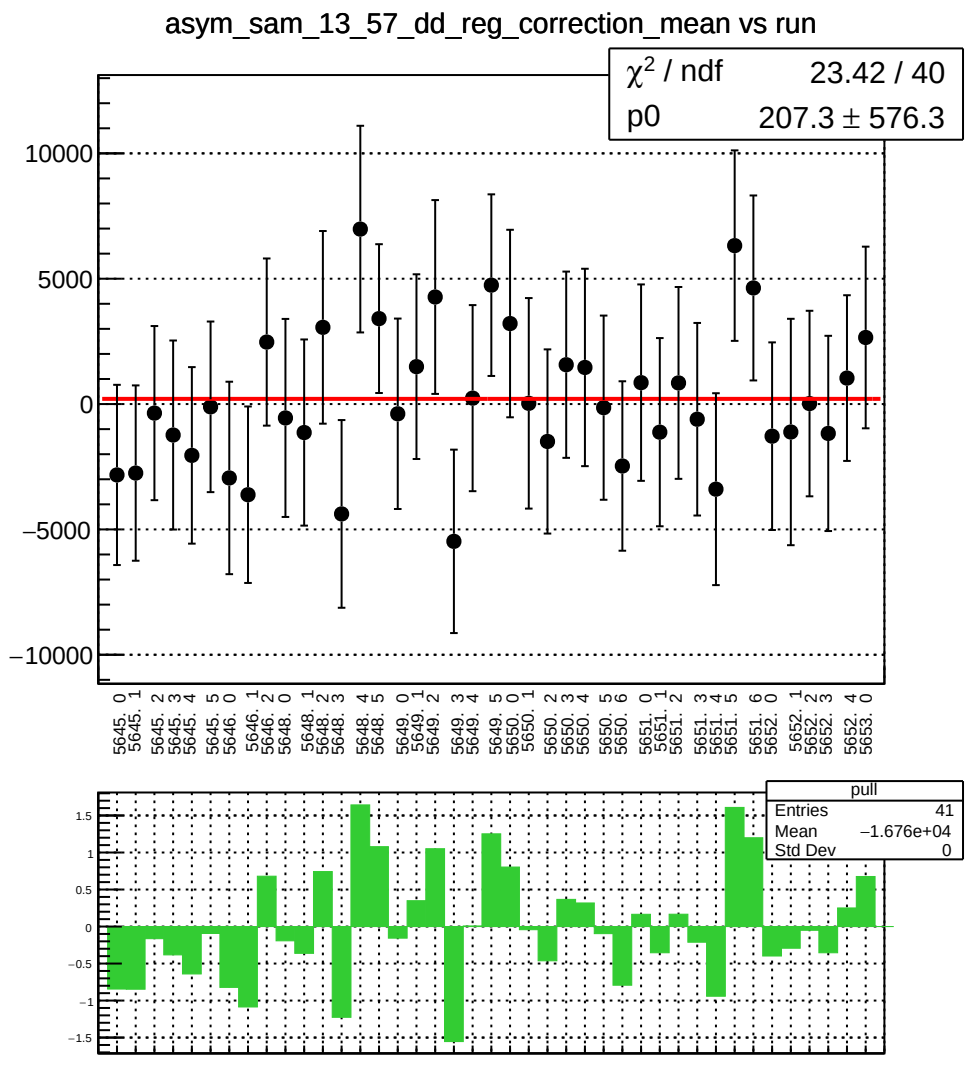

pull1D
Entries 41
Mean 0.09828
Std Dev 0.7762

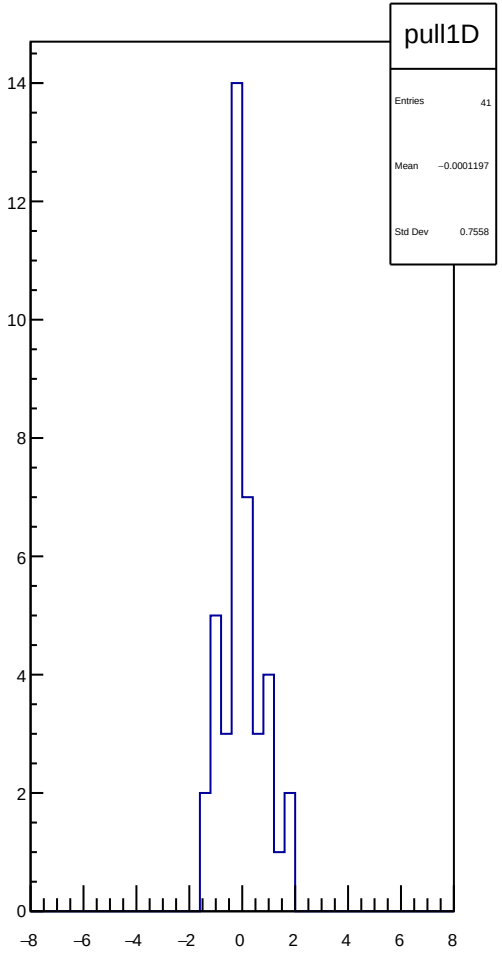

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.824e+05 / 40
p0 7.826e−11 ± 1.004e−13
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

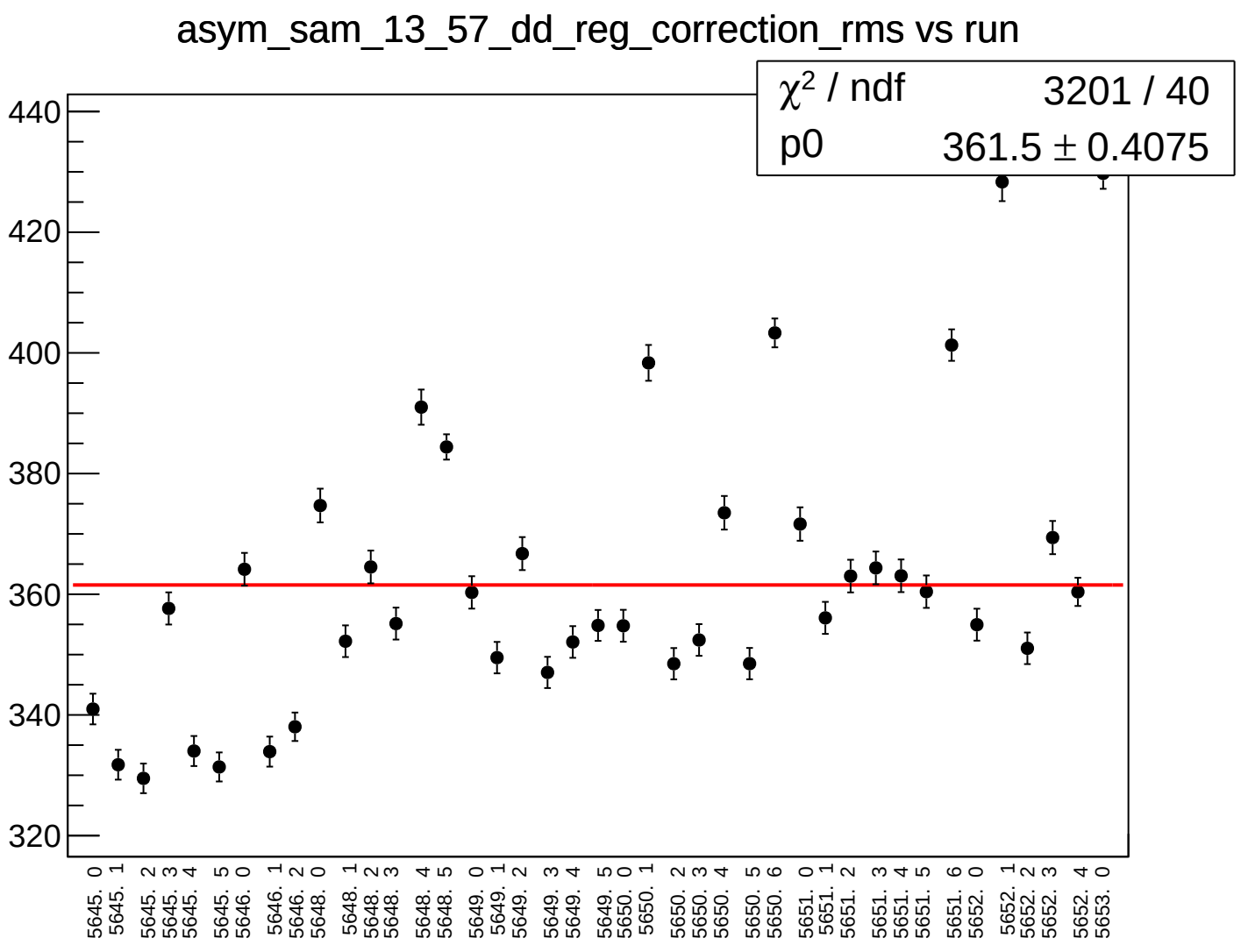

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 29.46 / 40
p0 −137.8 ± 115.3
pull
Entries 41
Mean 543.2
Std Dev 0

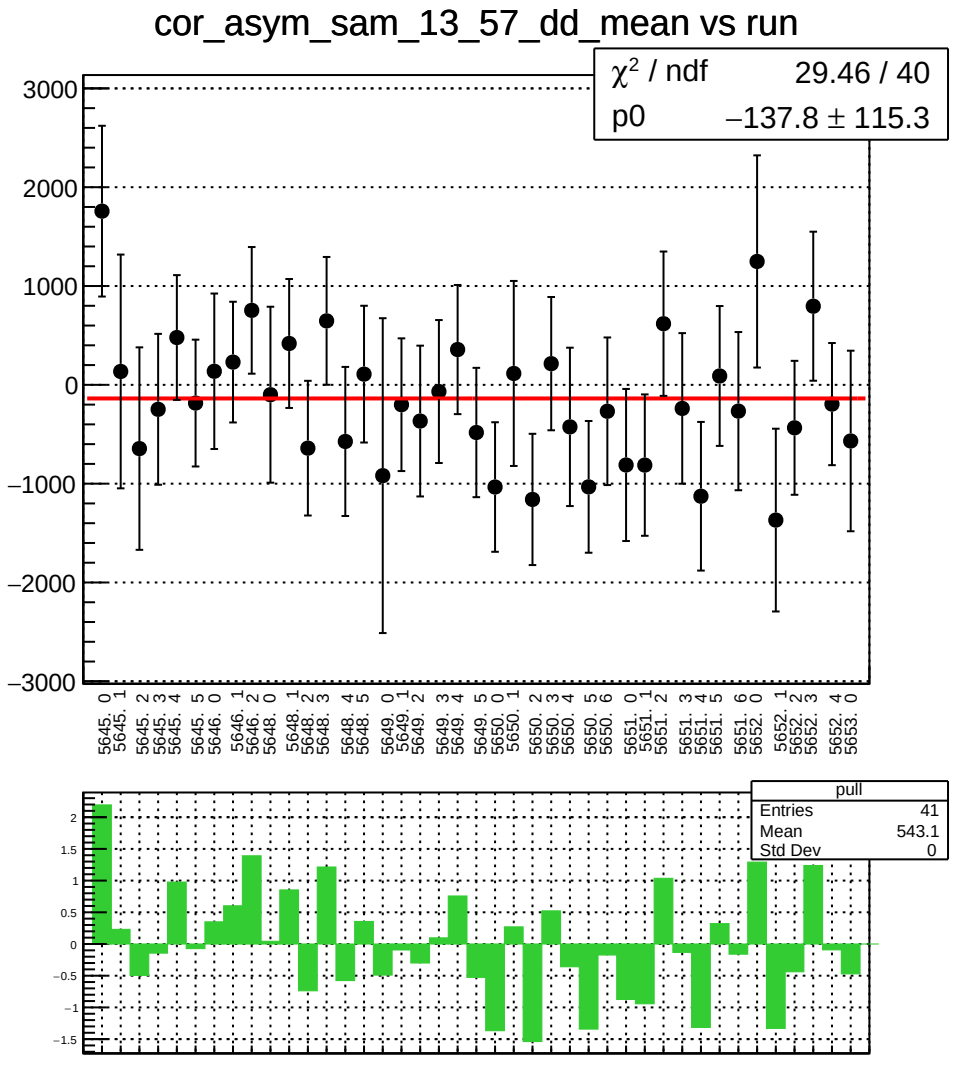

pull1D
Entries 41
Mean −0.005663
Std Dev 0.8476

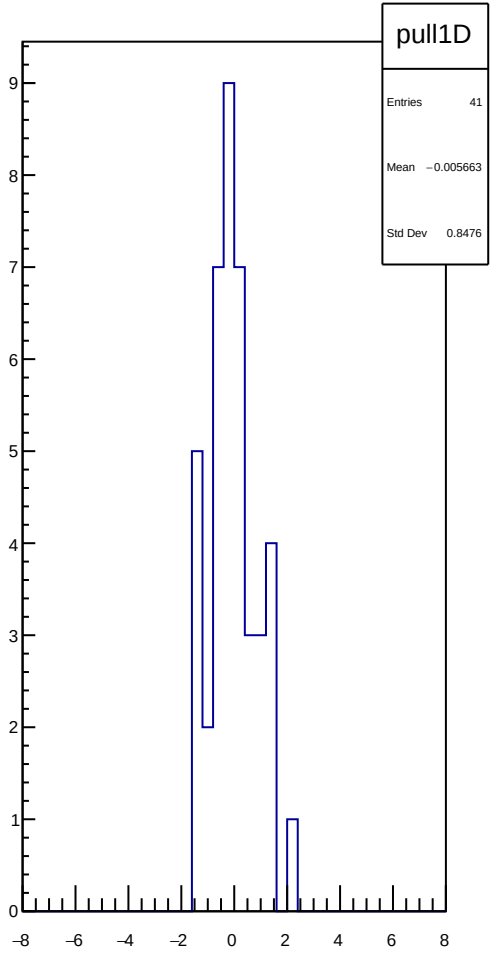

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.497e+04 / 40
p0 71.33 ± 0.08154
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

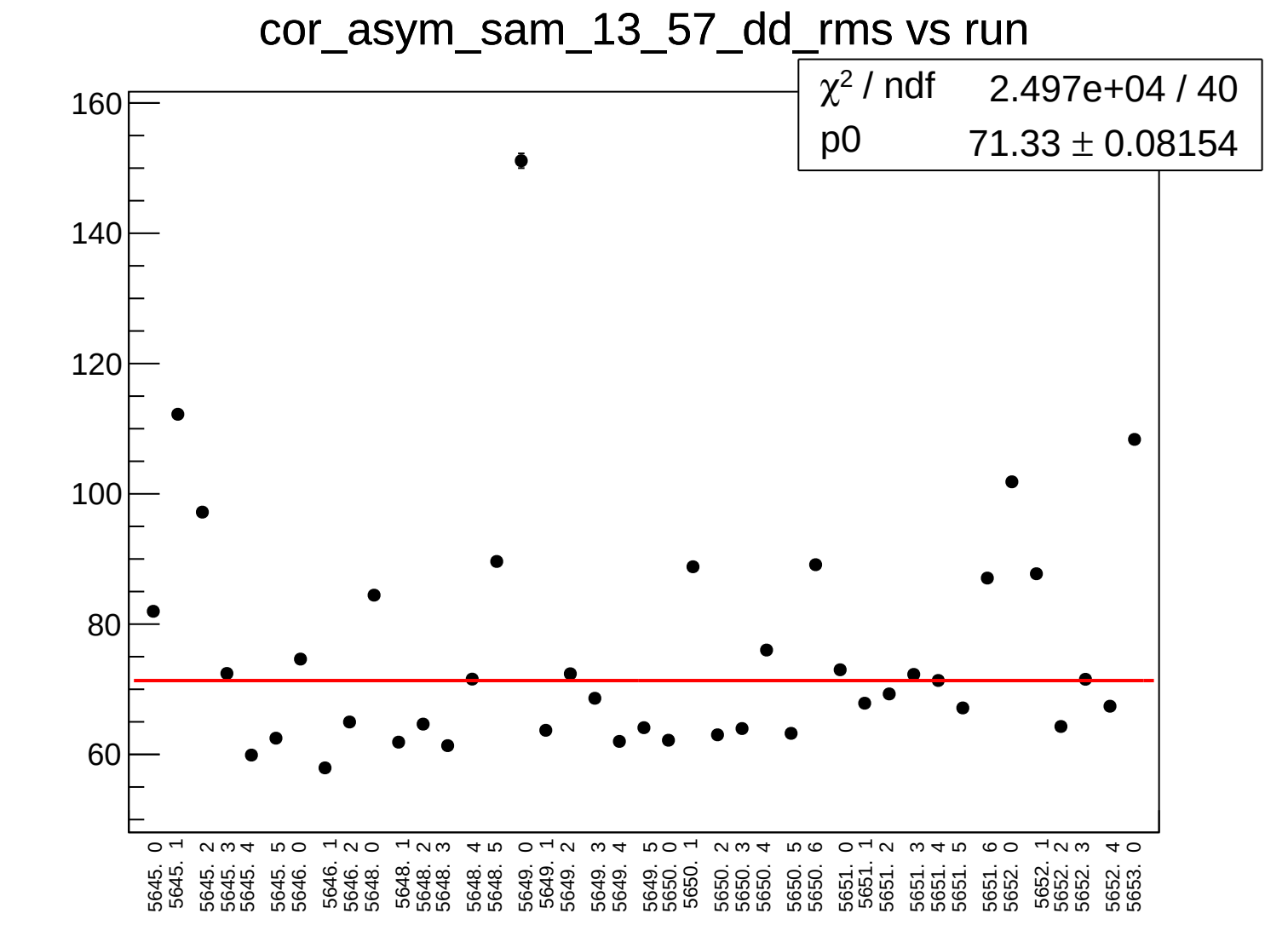

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 23.42 / 40
p0 207.3 ± 576.3
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.676e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

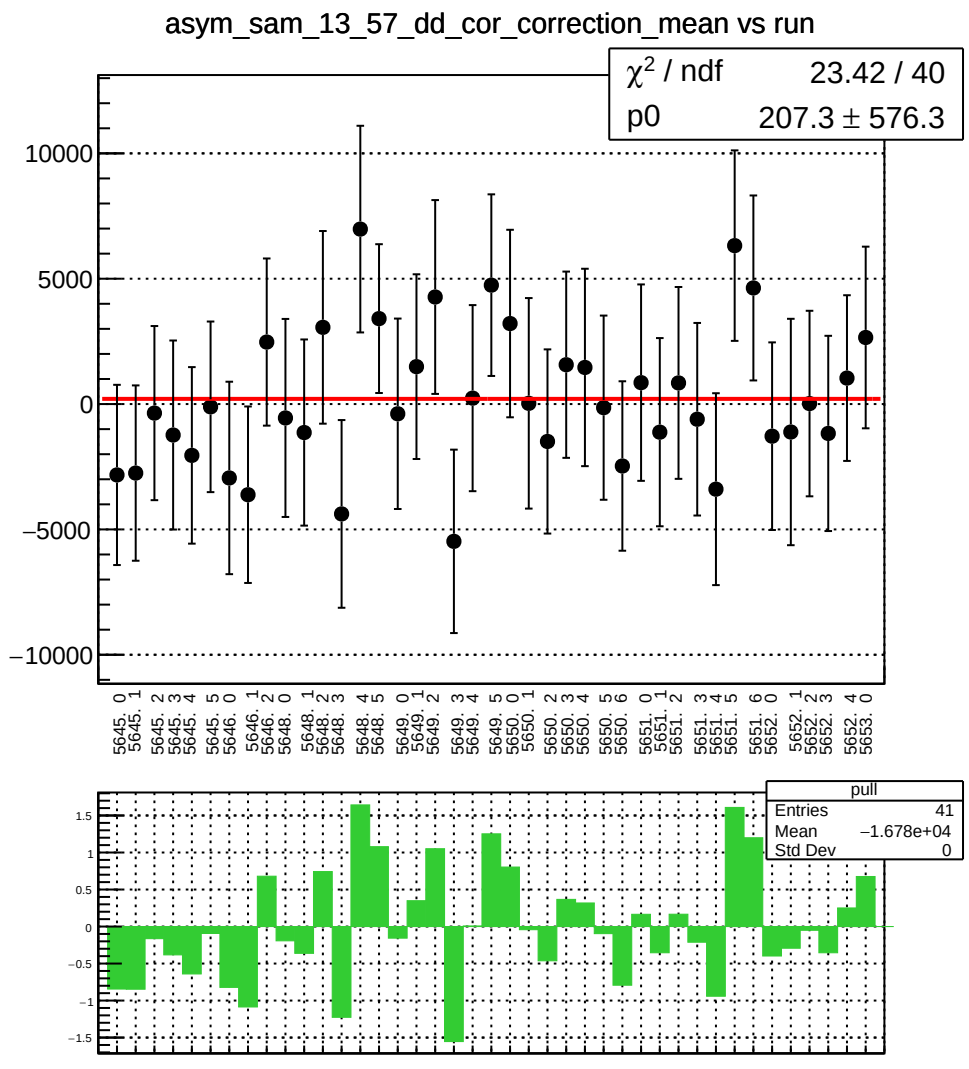

pull1D
Entries 41
Mean −0.0001197
Std Dev 0.7558
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

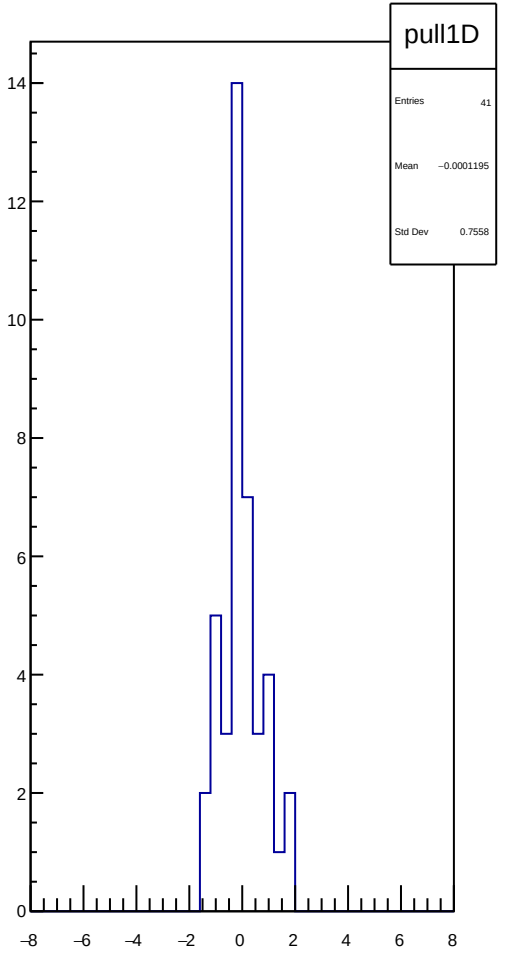

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3201 / 40
p0 361.5 ± 0.4075
440
420
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

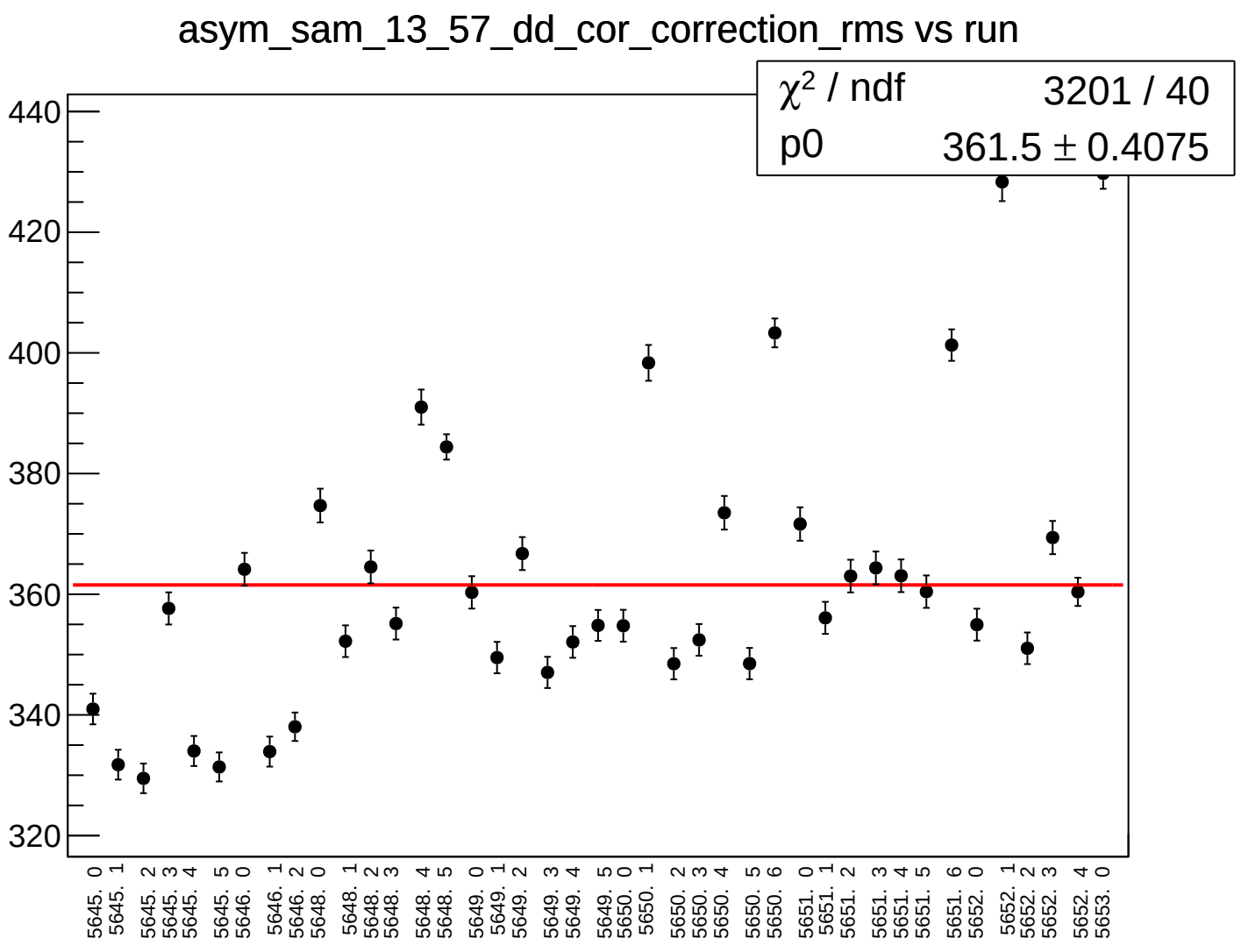

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 29.46 / 40
p0 −137.8 ± 115.3
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 543.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

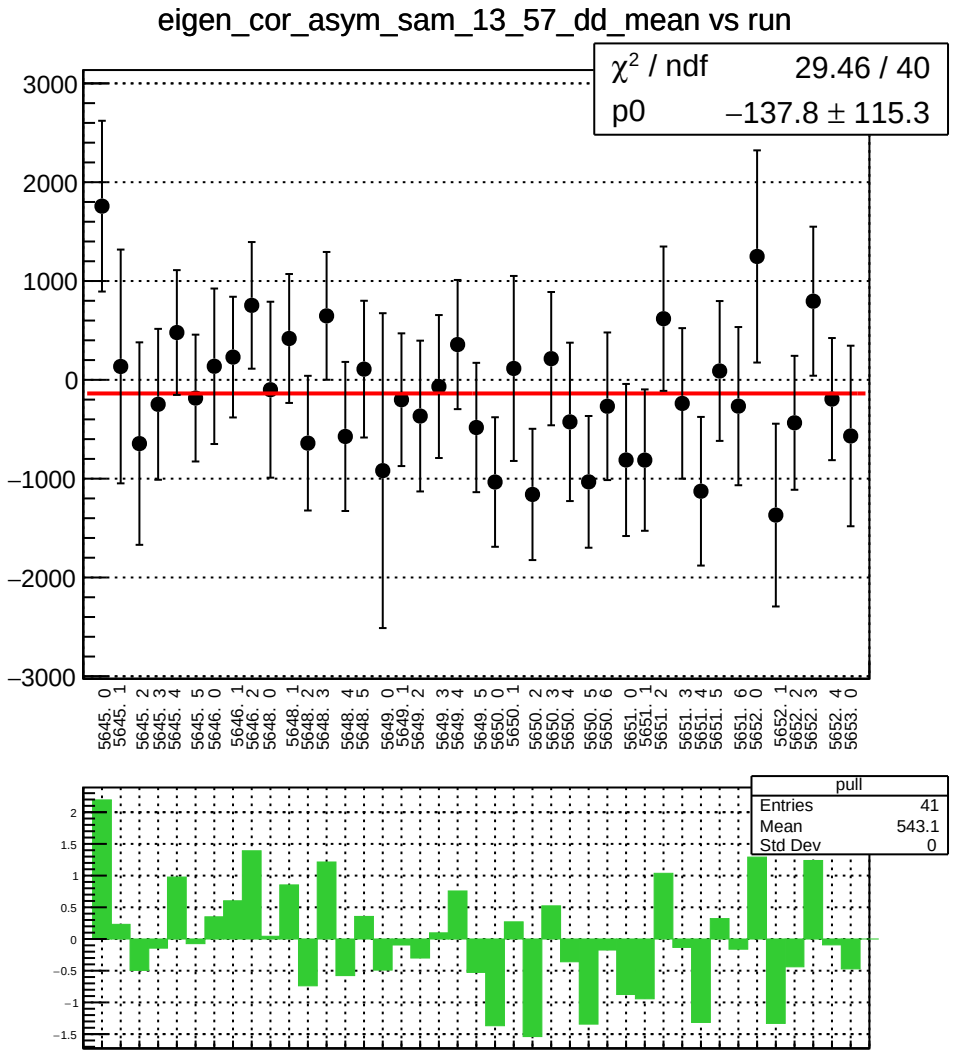

pull1D
Entries 41
Mean −0.005663
Std Dev 0.8476
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

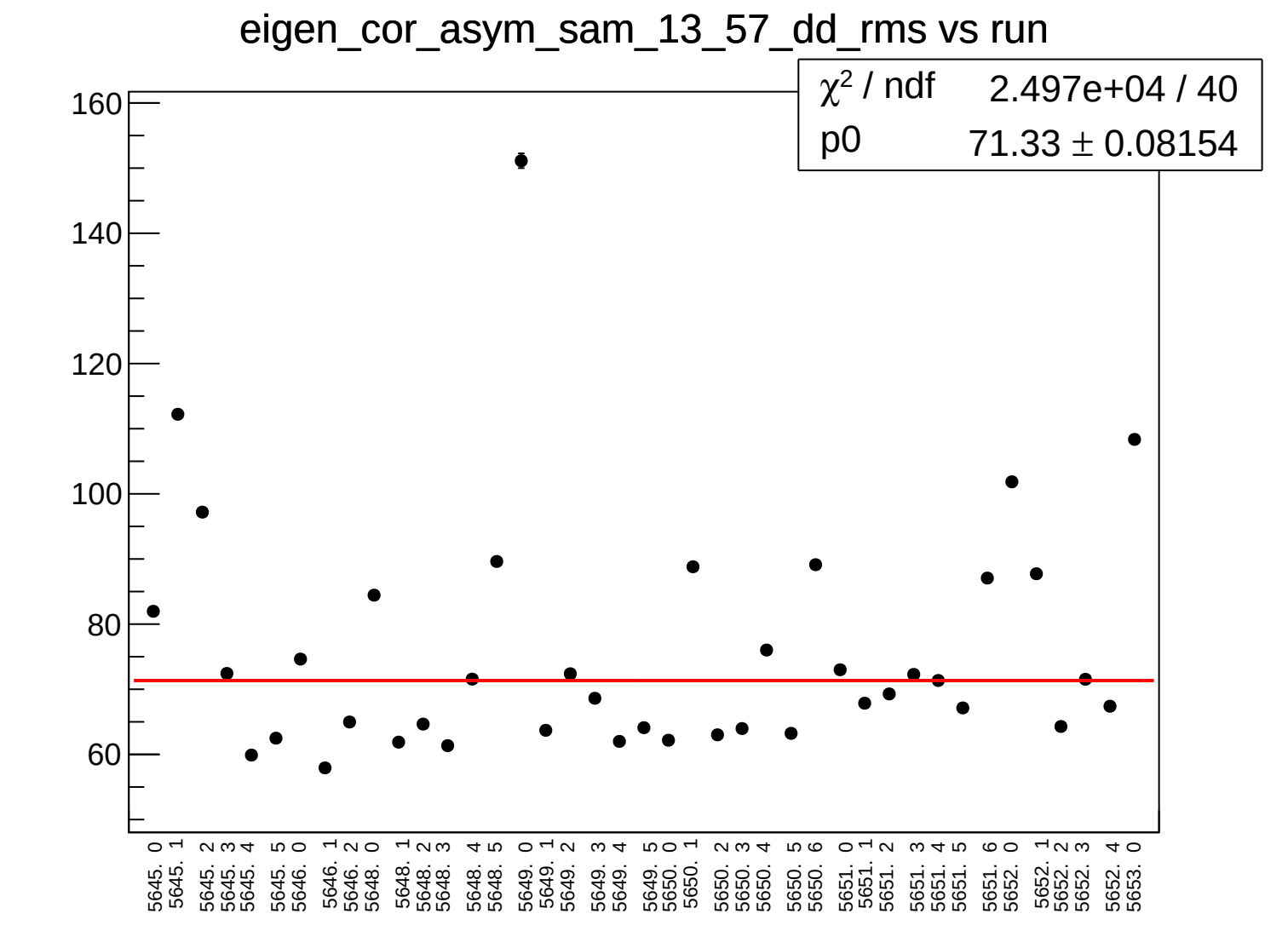

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.497e+04 / 40
p0 71.33 ± 0.08154
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

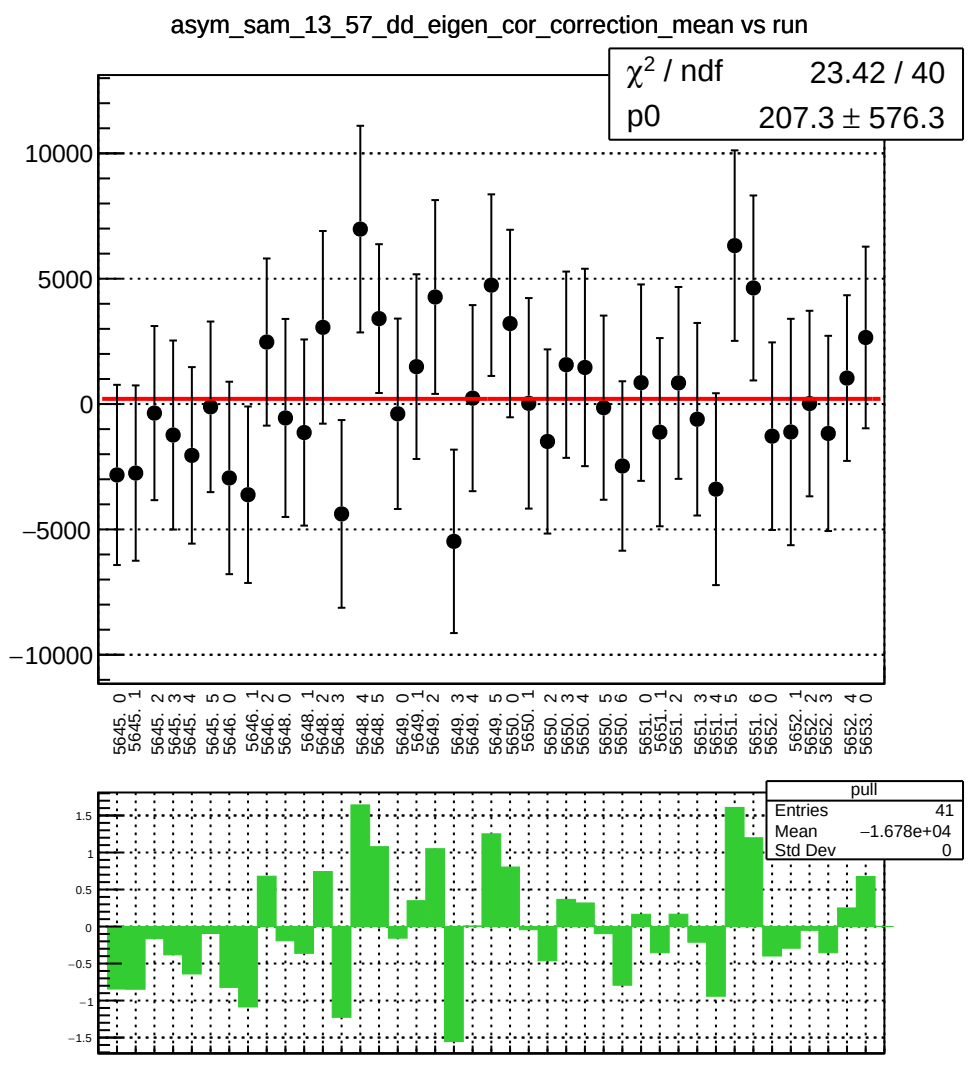

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 23.42 / 40
p0 207.3 ± 576.3
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.678e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

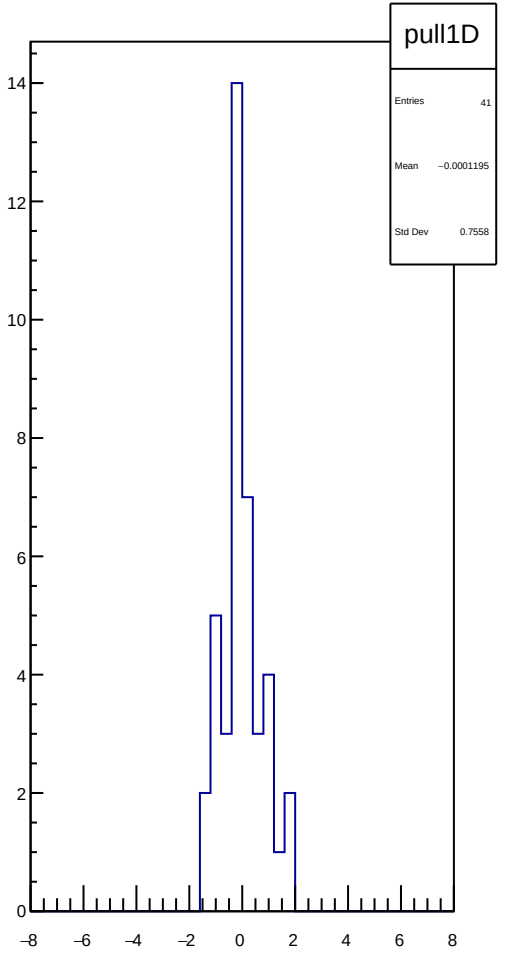

pull1D
Entries 41
Mean −0.0001195
Std Dev 0.7558
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

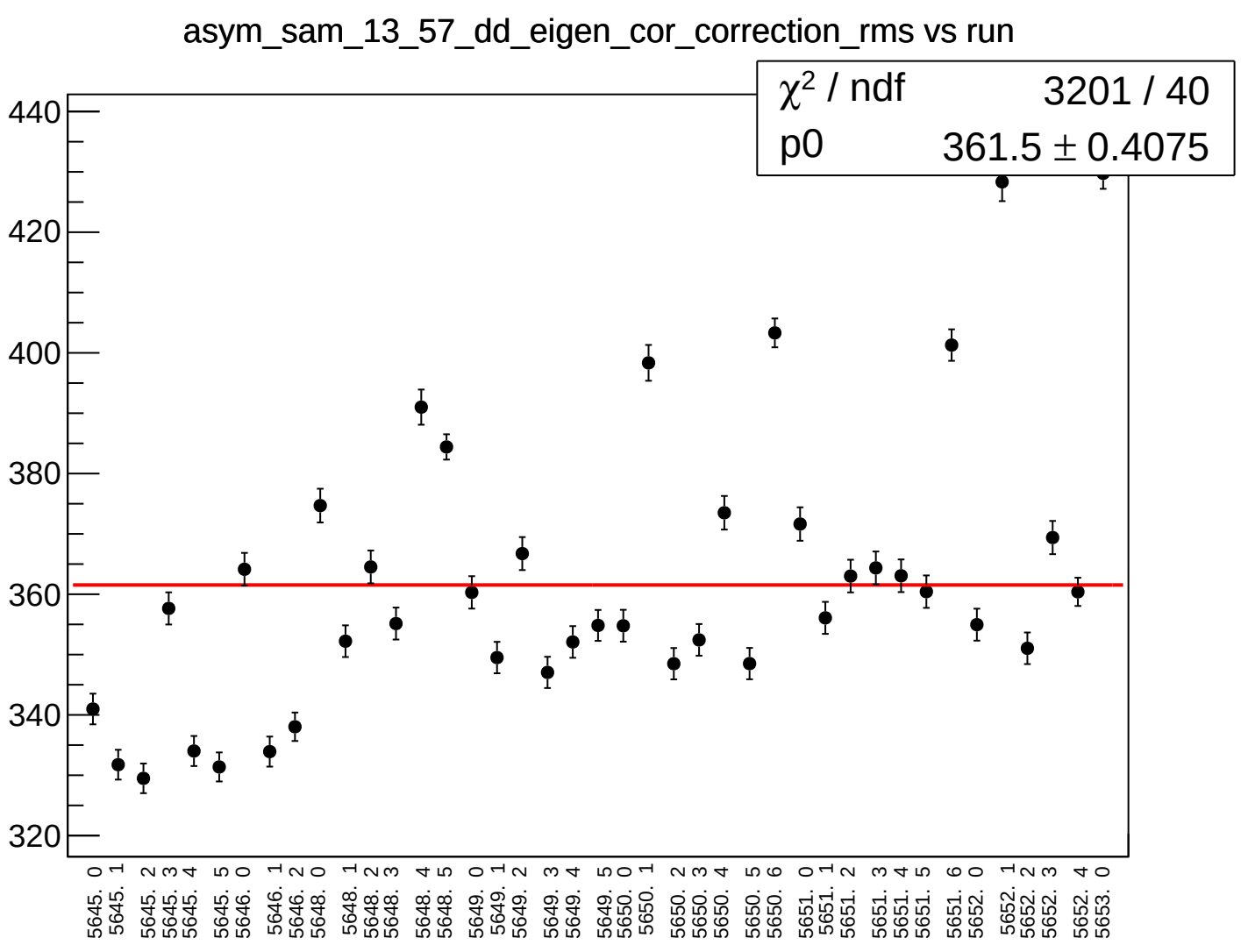

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 3201 / 40
p0 361.5 ± 0.4075
440
420
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

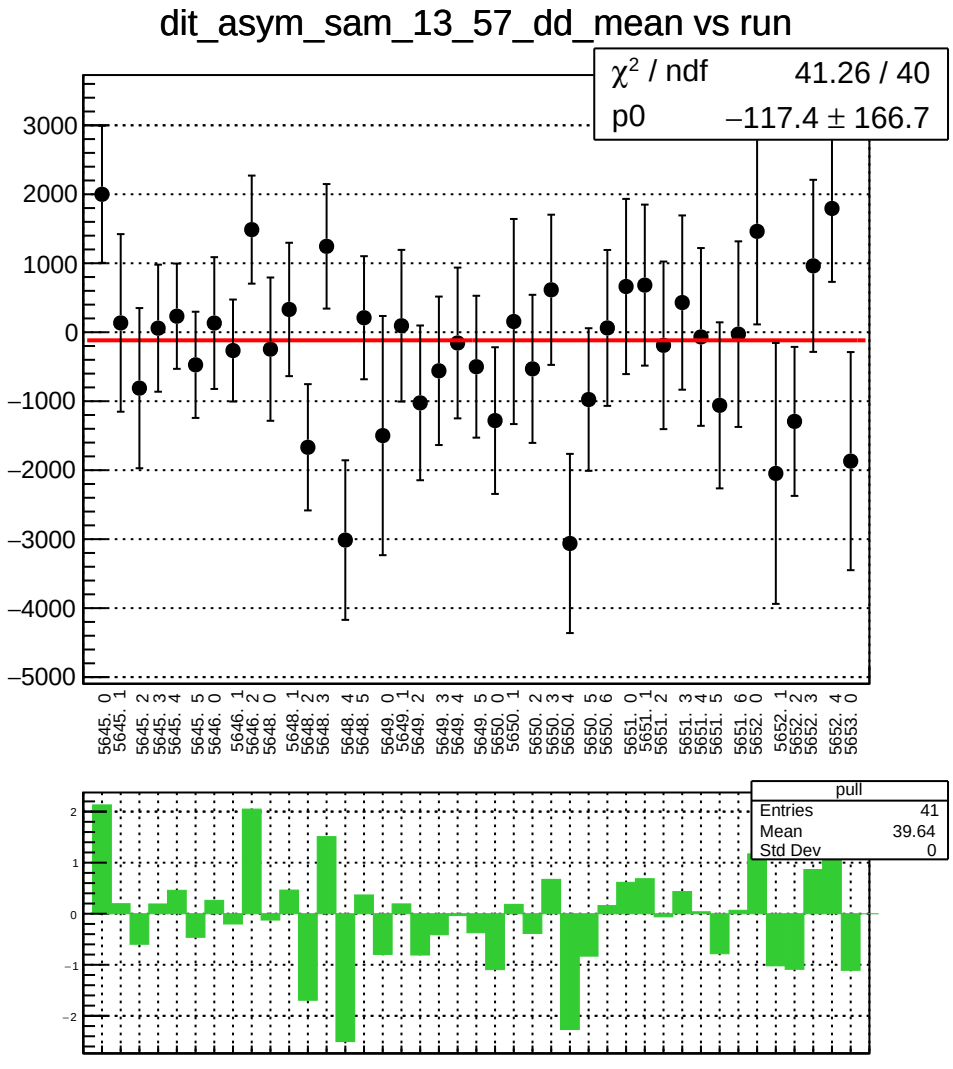

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 29.46 / 40
p0 −137.8 ± 115.3
pull
Entries 41
Mean 543.1
Std Dev 0
pull1D
Entries 41
Mean −0.005663
Std Dev 0.8476

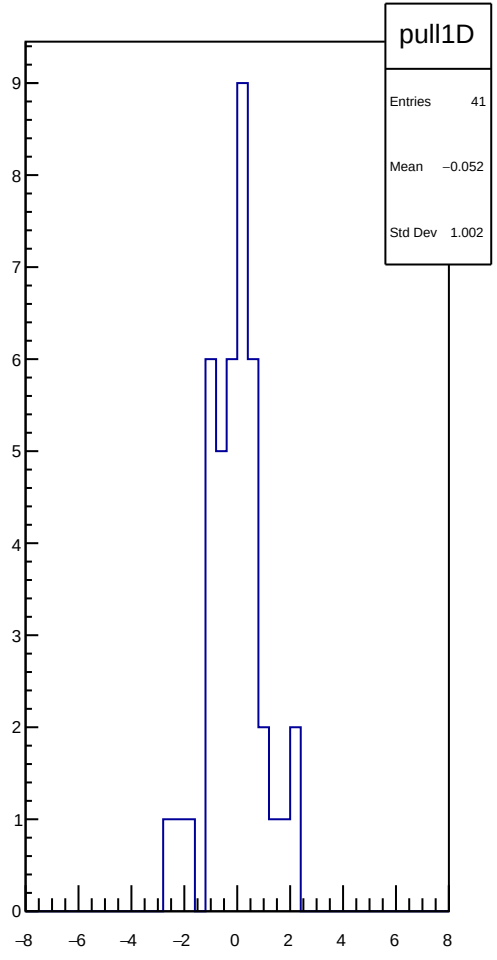

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.497e+04 / 40
p0 71.33 ± 0.08154
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

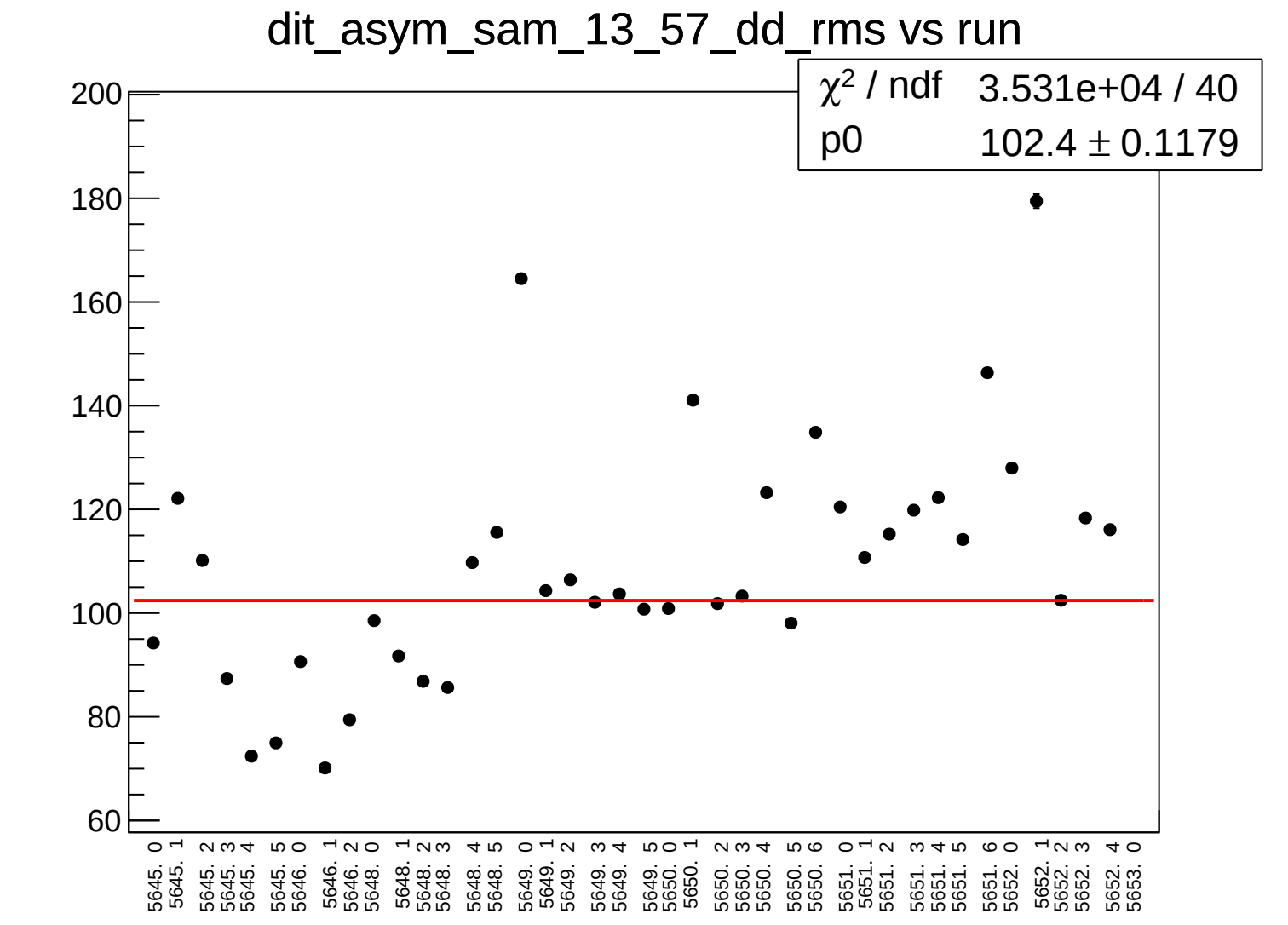

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.42 / 40
p0 207.3 ± 576.3
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1.678e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

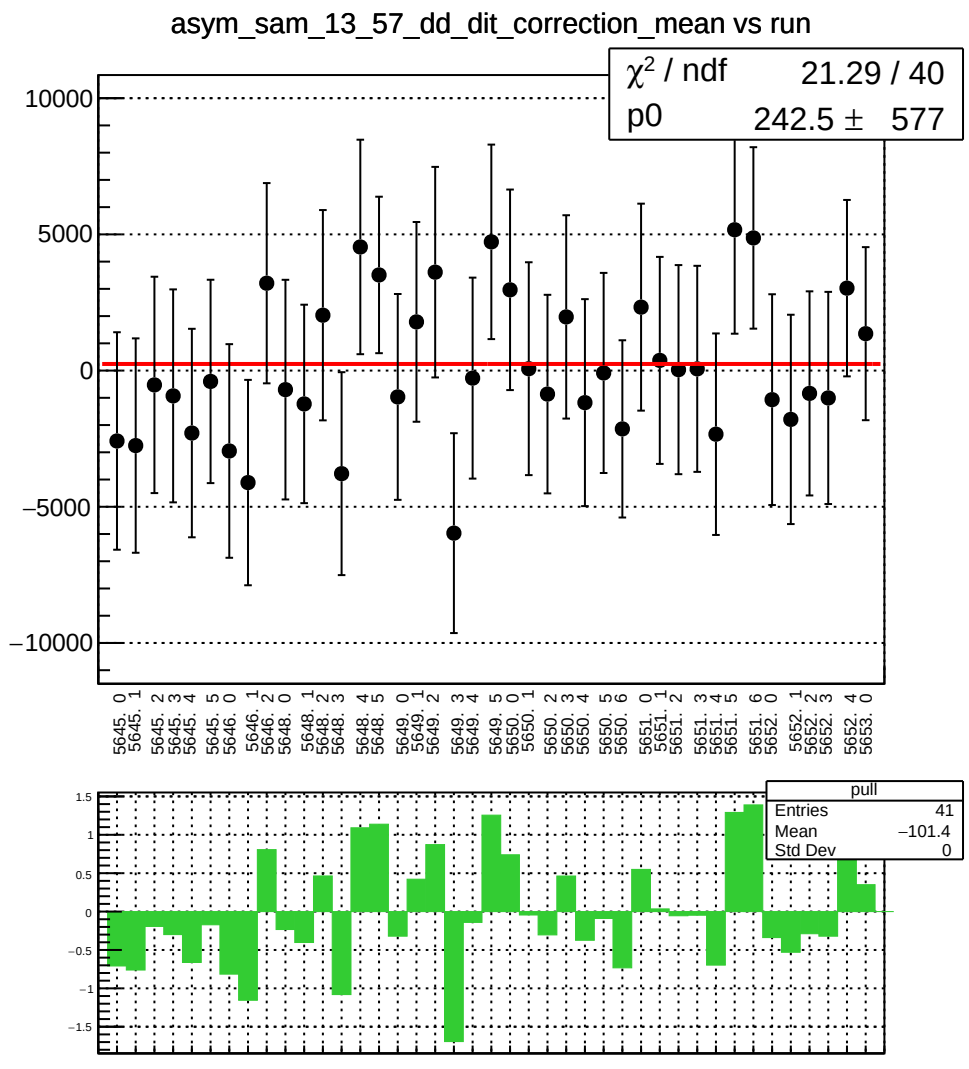

pull1D
Entries 41
Mean −0.0001195
Std Dev 0.7558
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

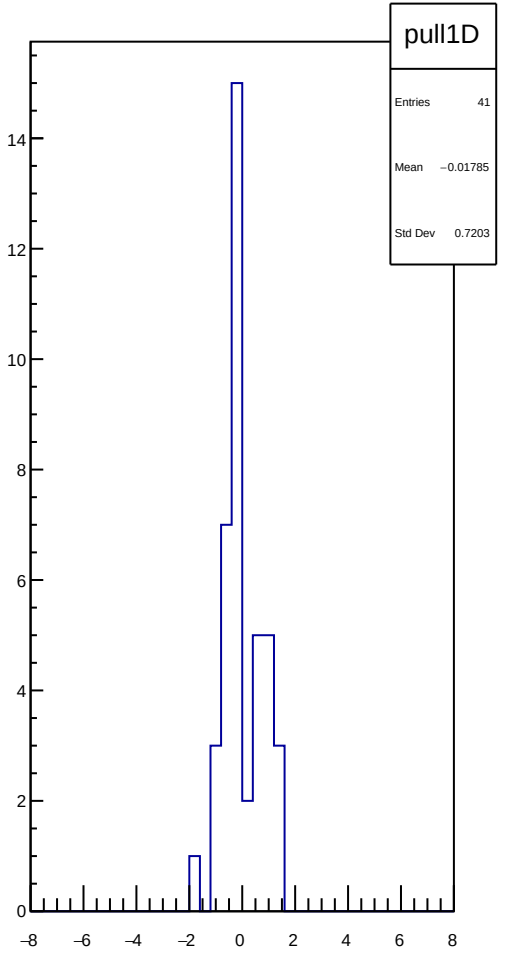

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 3201 / 40
p0 361.5 ± 0.4075
440
420
400
380
360
340
320
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

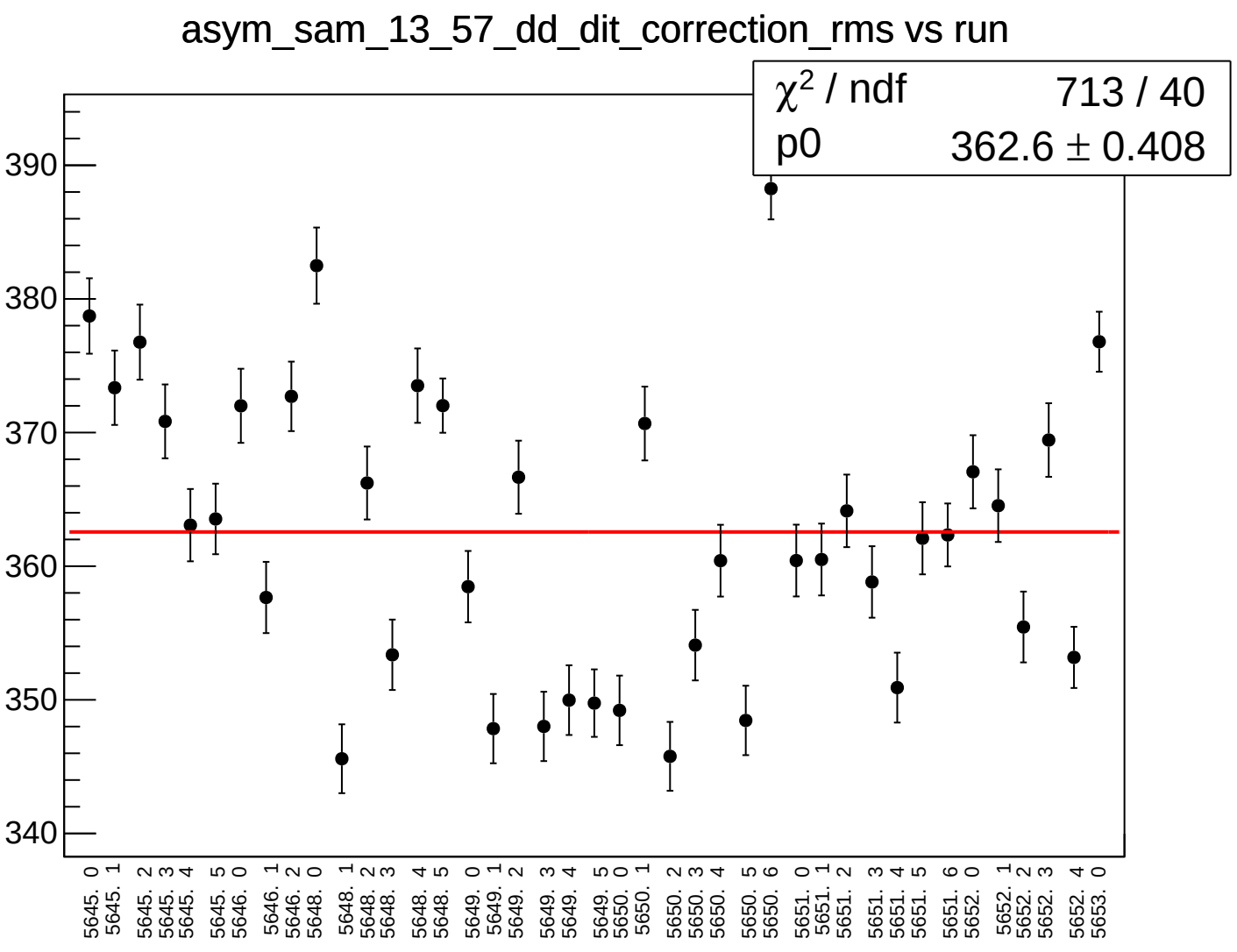

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 41.26 / 40
p0 −117.4 ± 166.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 39.64
Std Dev 0
2
1
0
−1
−2

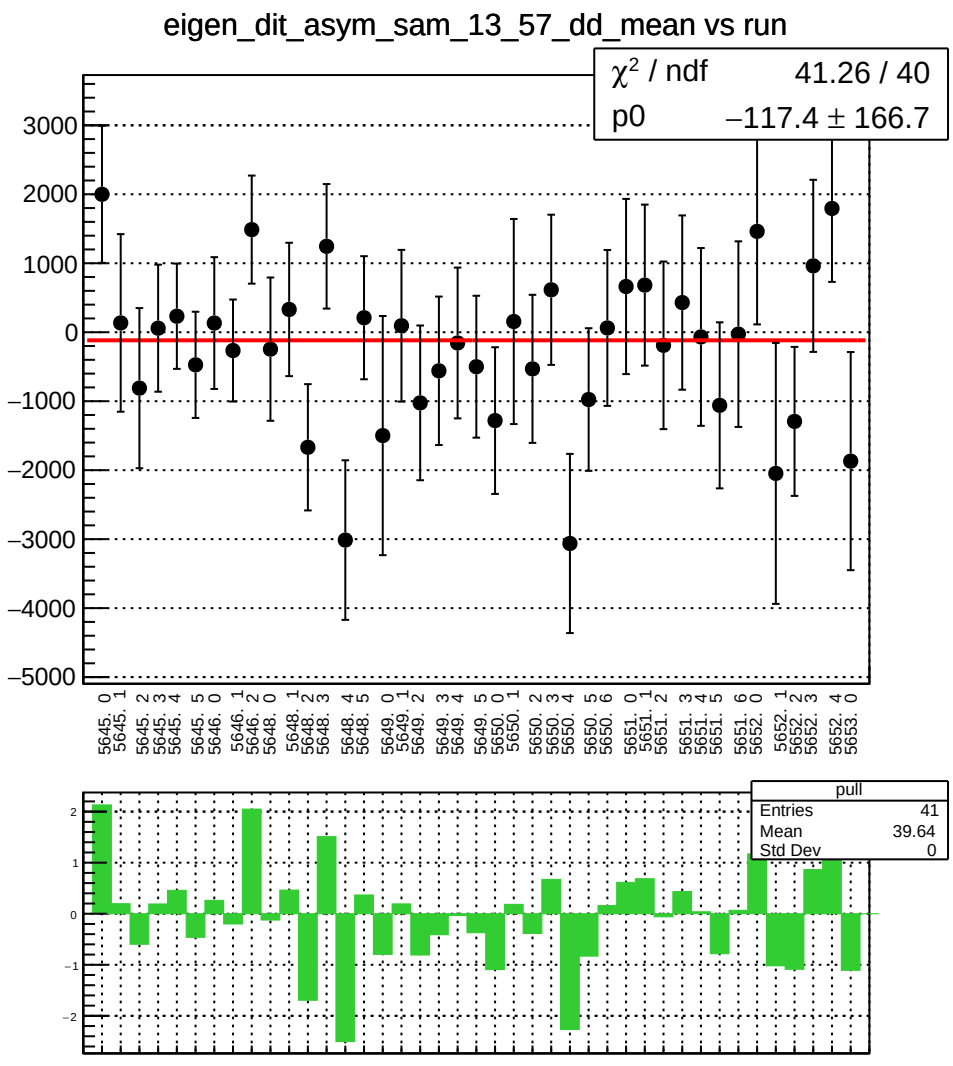

pull1D
Entries 41
Mean −0.052
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

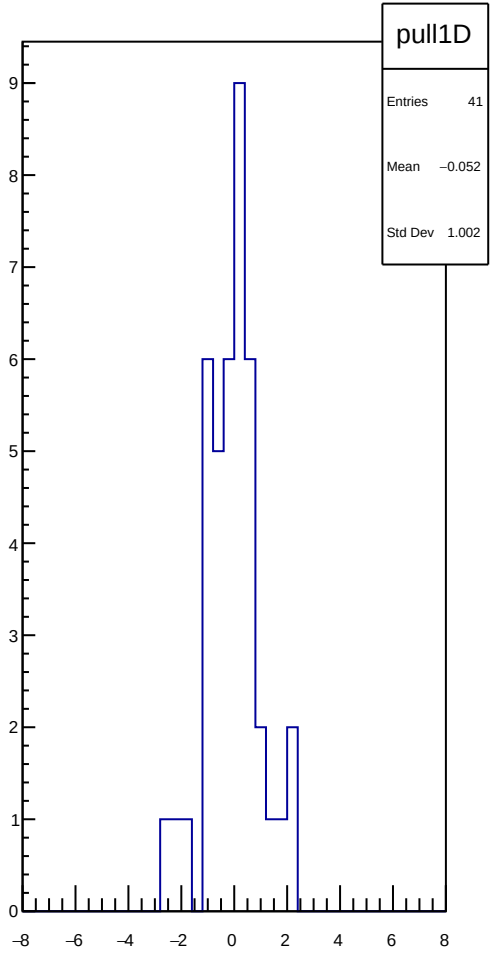

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3.531e+04 / 40
p0 102.4 ± 0.1179
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

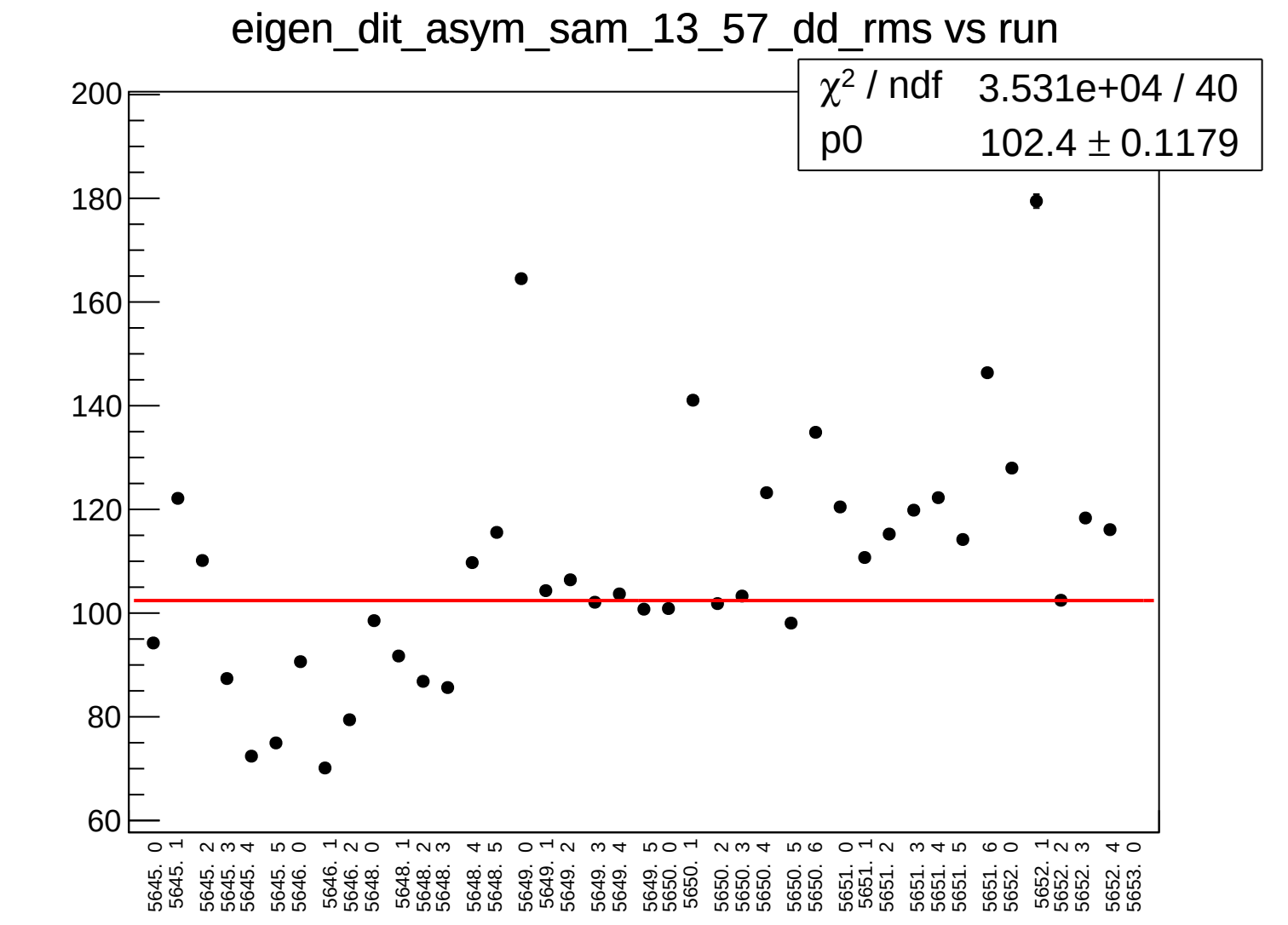

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 21.29 / 40
p0 242.5 ± 577
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −101.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

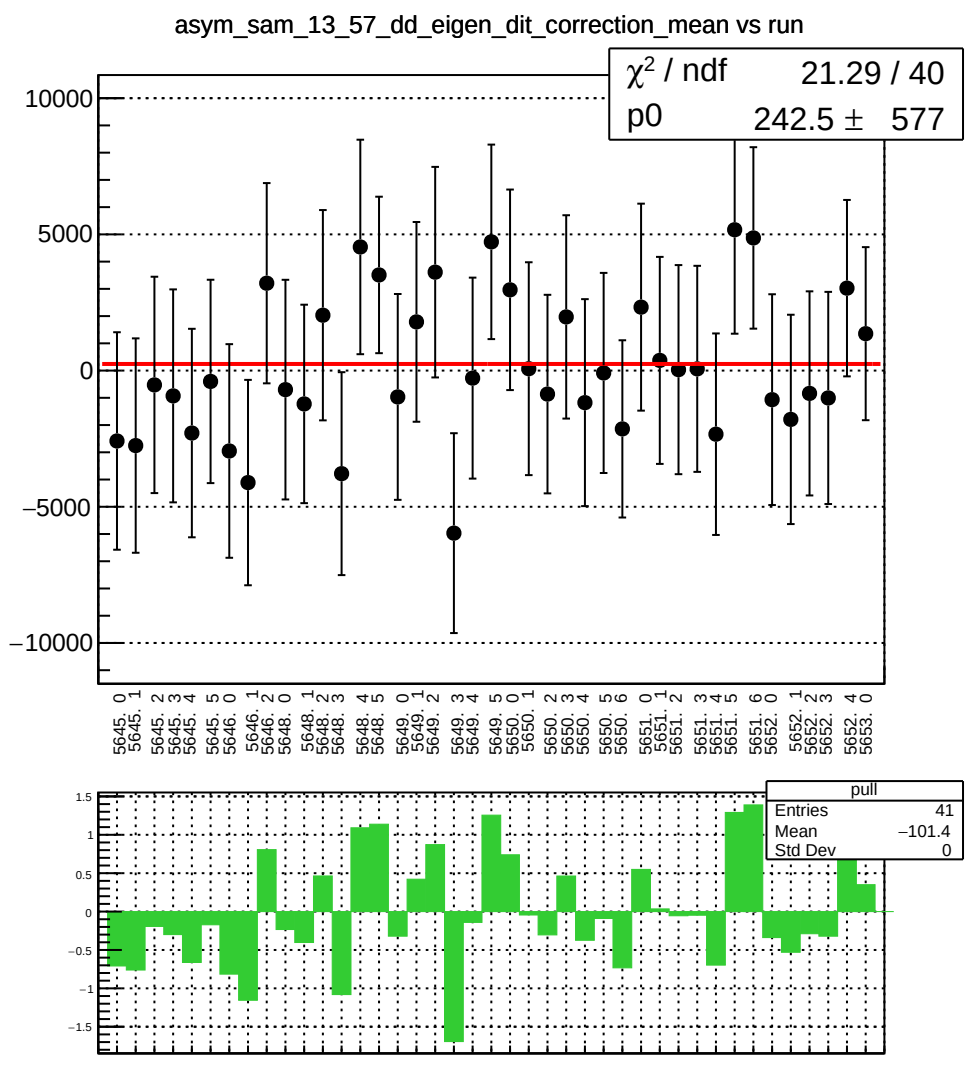

pull1D
Entries 41
Mean −0.01785
Std Dev 0.7203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

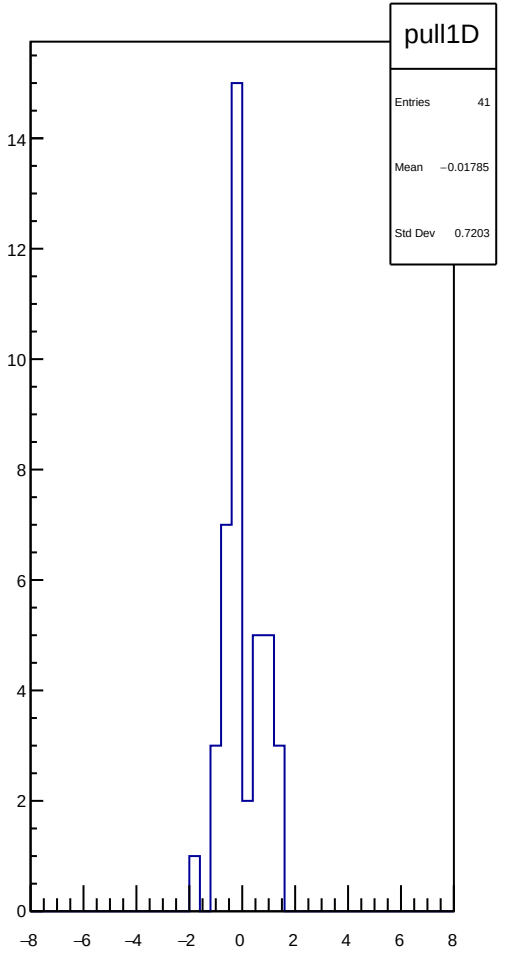

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 713 / 40
p0 362.6 ± 0.408
390
380
370
360
350
340
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

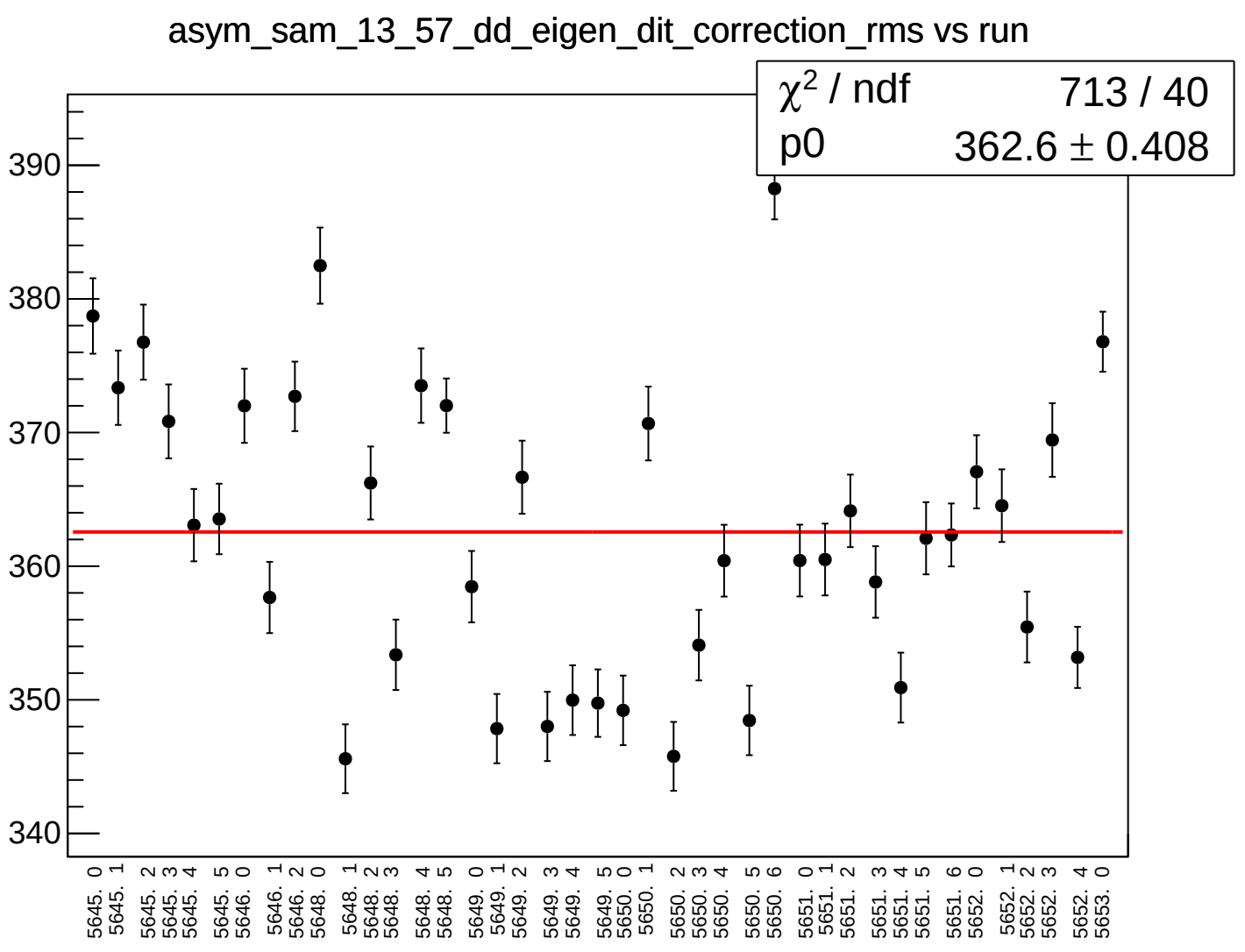

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 41.26 / 40
p0 −117.4 ± 166.7
pull
Entries 41
Mean 39.64
Std Dev 0

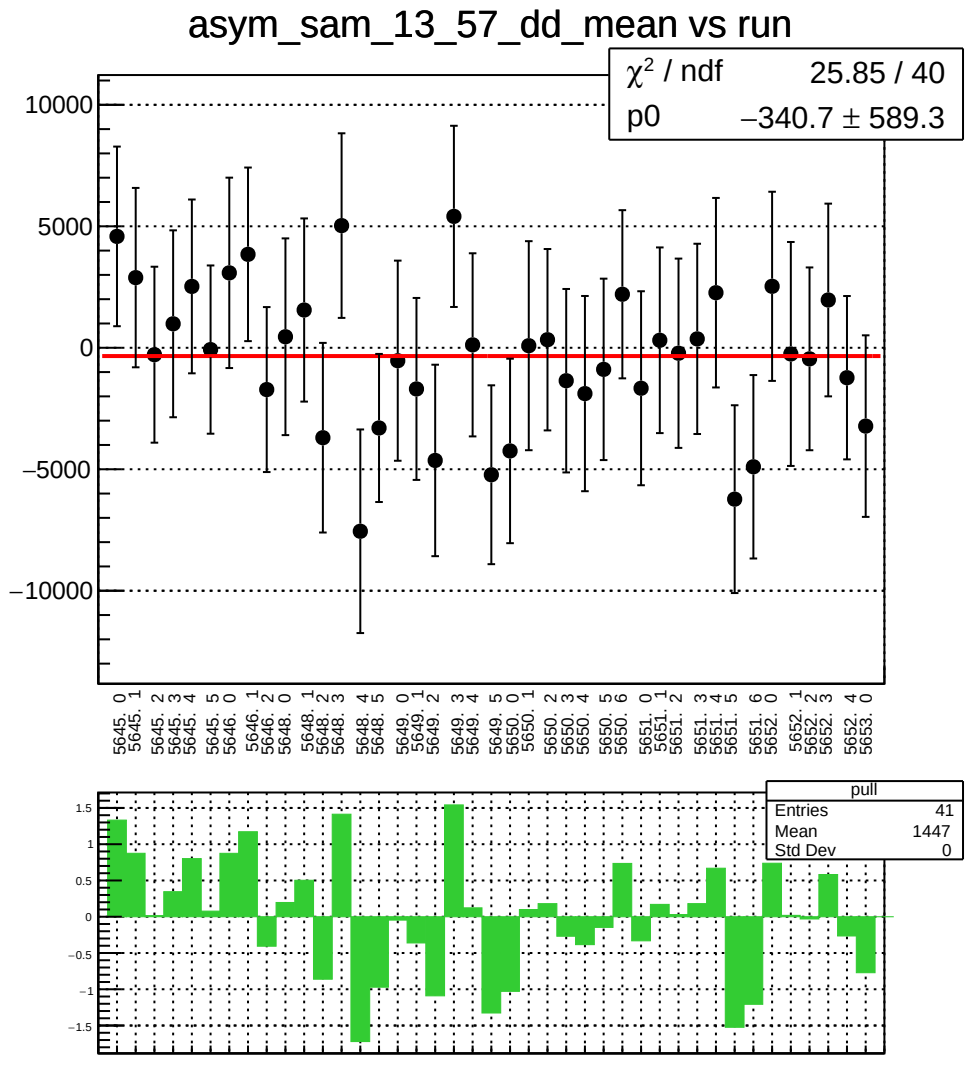

pull1D
Entries 41
Mean −0.052
Std Dev 1.002

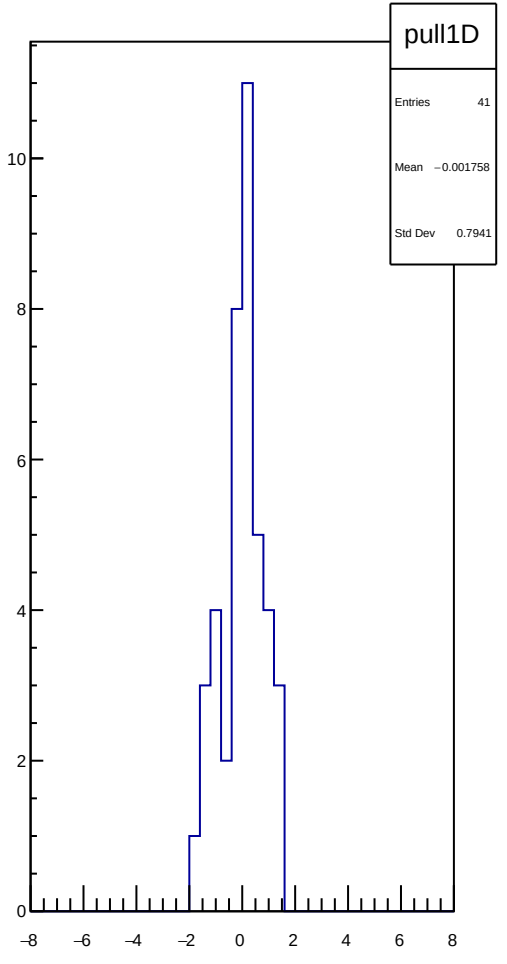

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 3.531e+04 / 40
p0 102.4 ± 0.1179
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

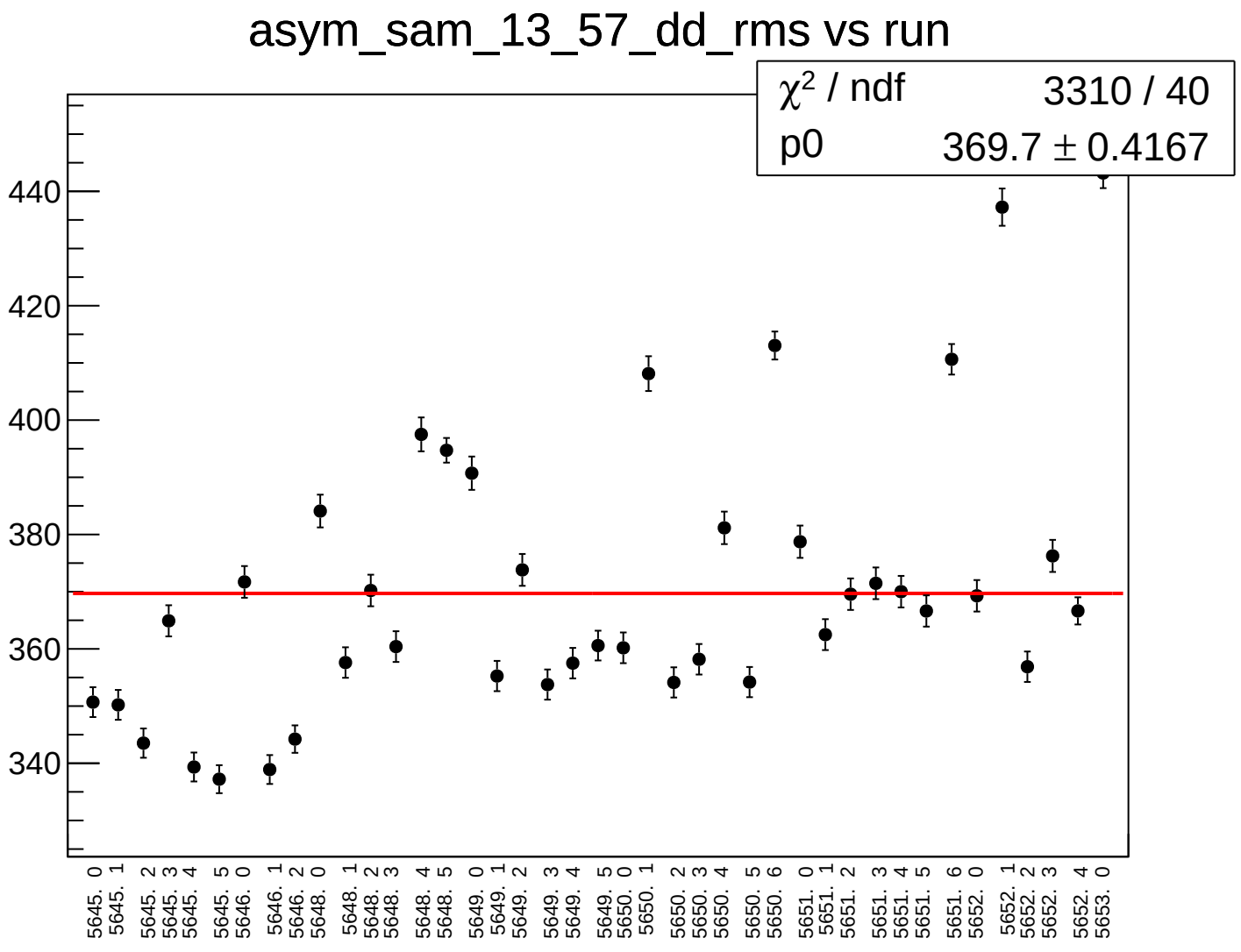

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 21.29 / 40
p0 242.5 ± 577
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −101.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

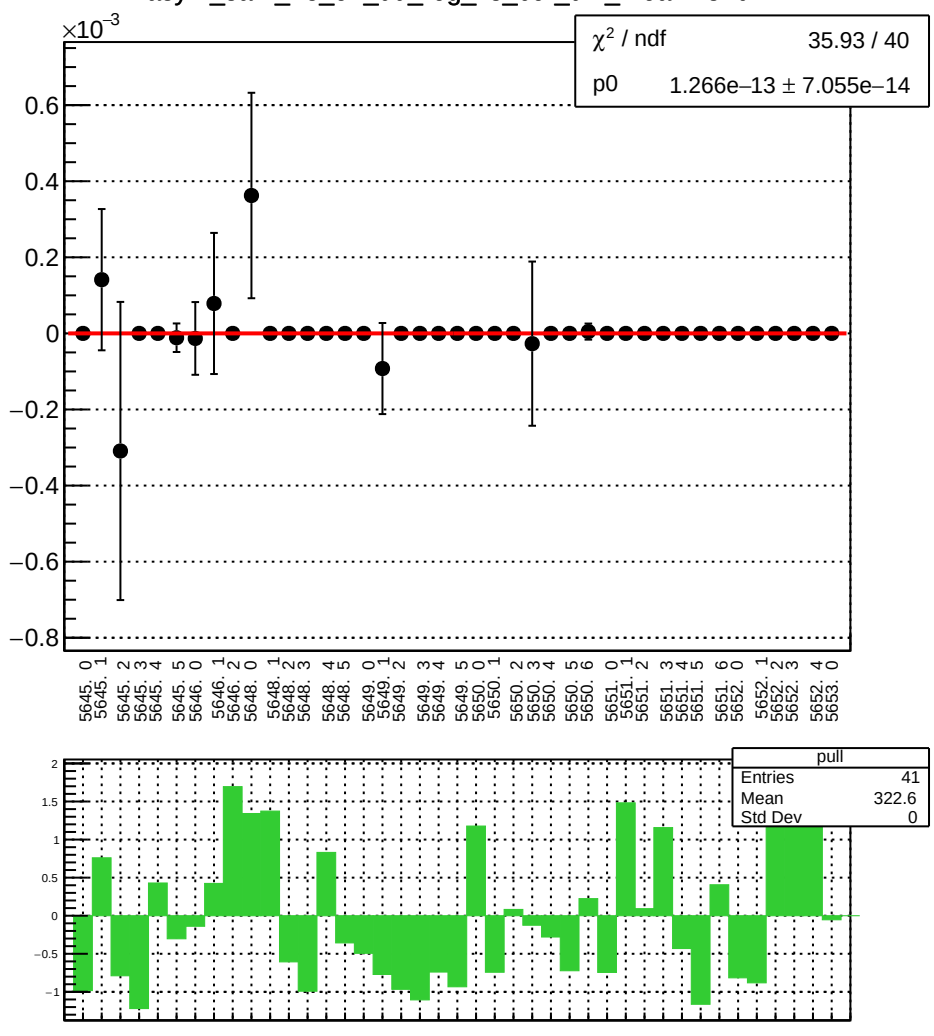

pull1D
Entries 41
Mean −0.01785
Std Dev 0.7203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

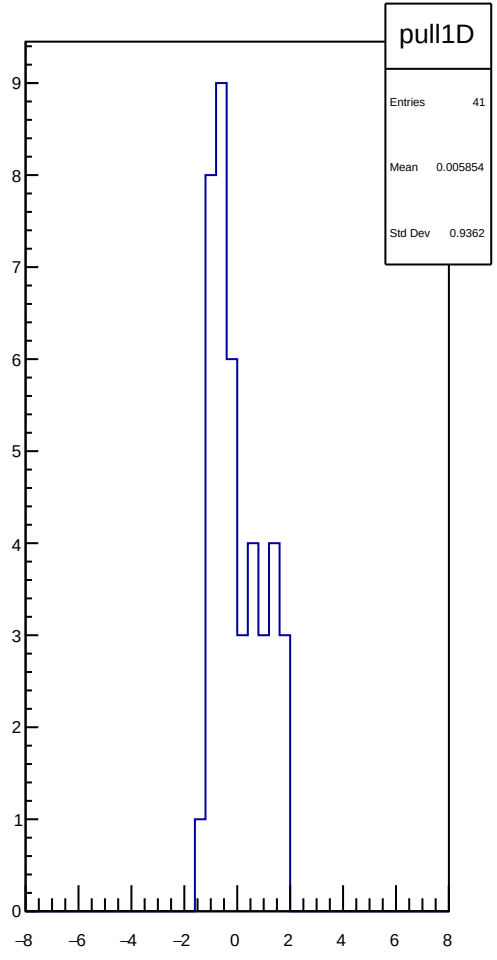

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 713 / 40
p0 362.6 ± 0.408
390
380
370
360
350
340
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

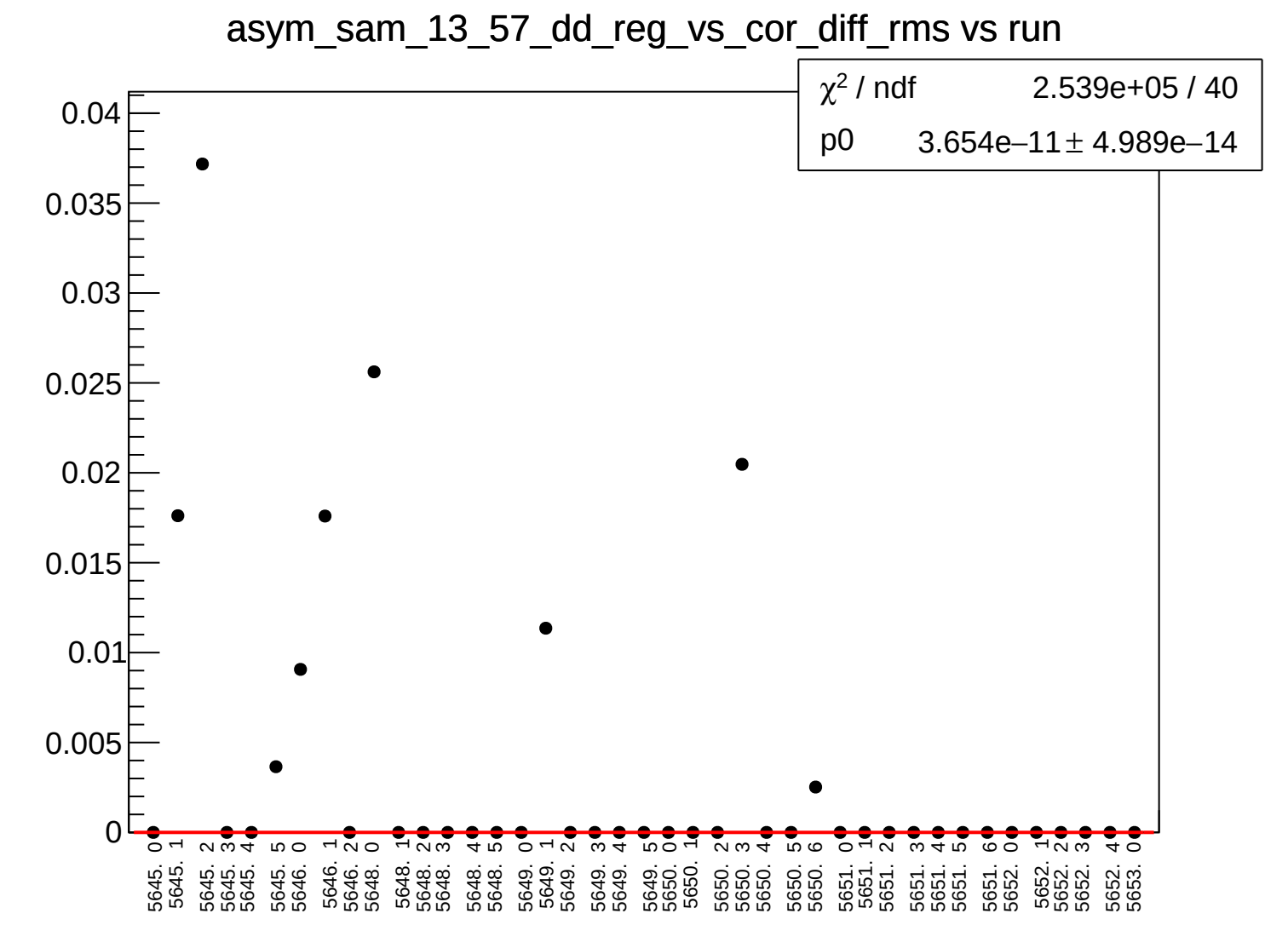

asym_sam_13_57_dd_mean vs run
χ² / ndf 25.85 / 40
p0 −340.7 ± 589.3
10000
5000
0
−5000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1447
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

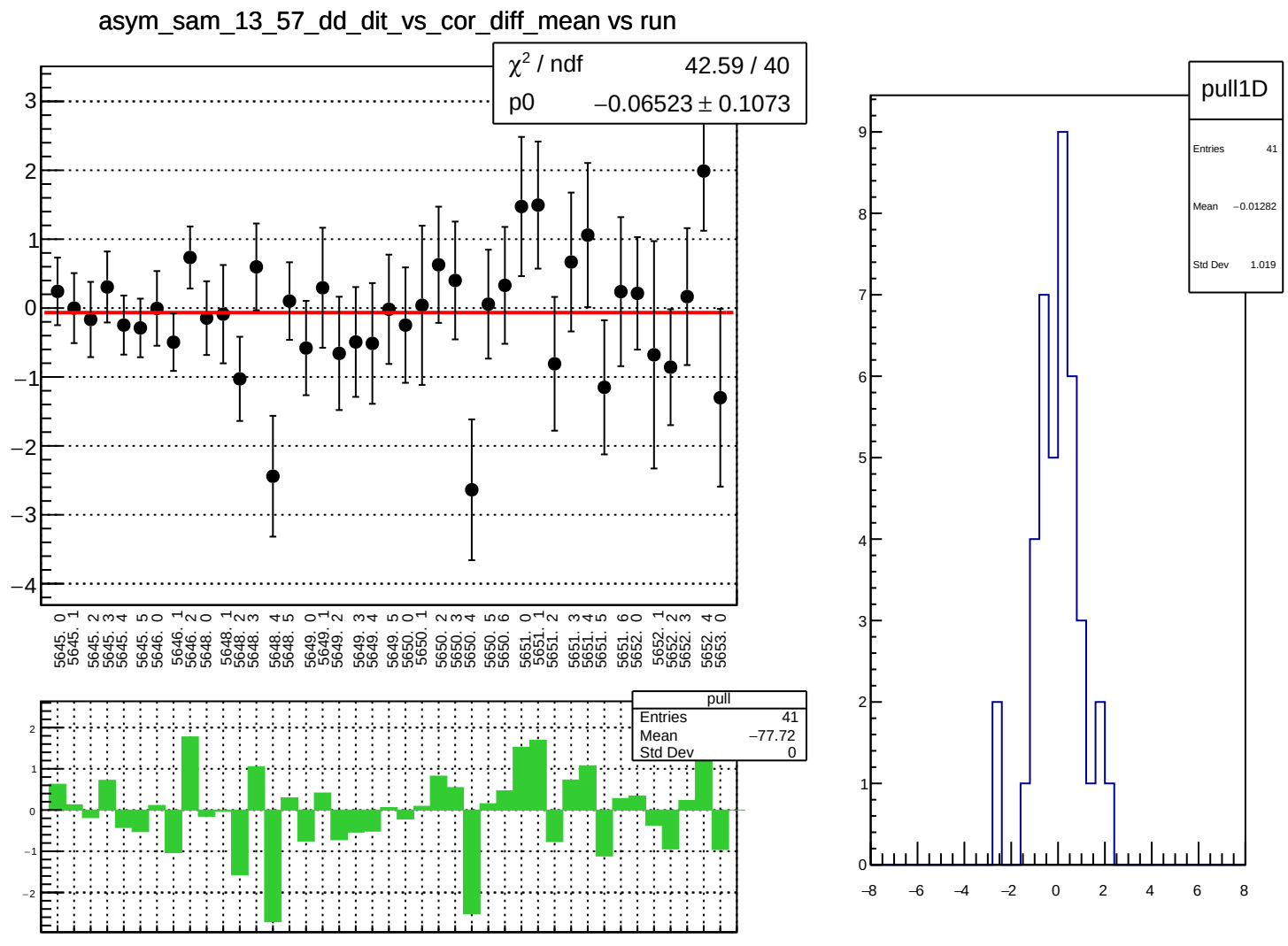

pull1D
Entries 41
Mean −0.001758
Std Dev 0.7941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

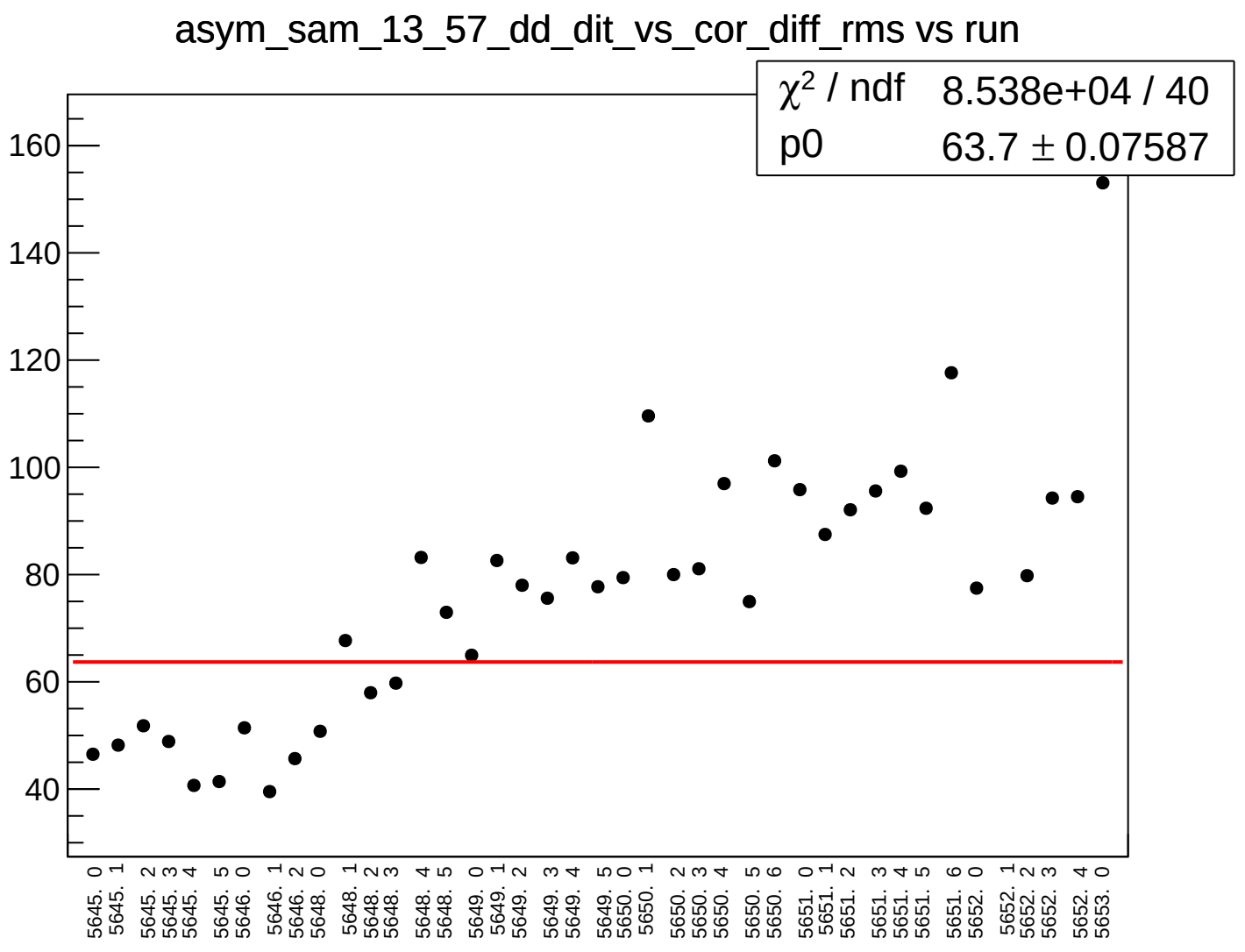

asym_sam_13_57_dd_rms vs run
χ² / ndf 3310 / 40
p0 369.7 ± 0.4167
440
420
400
380
360
340
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

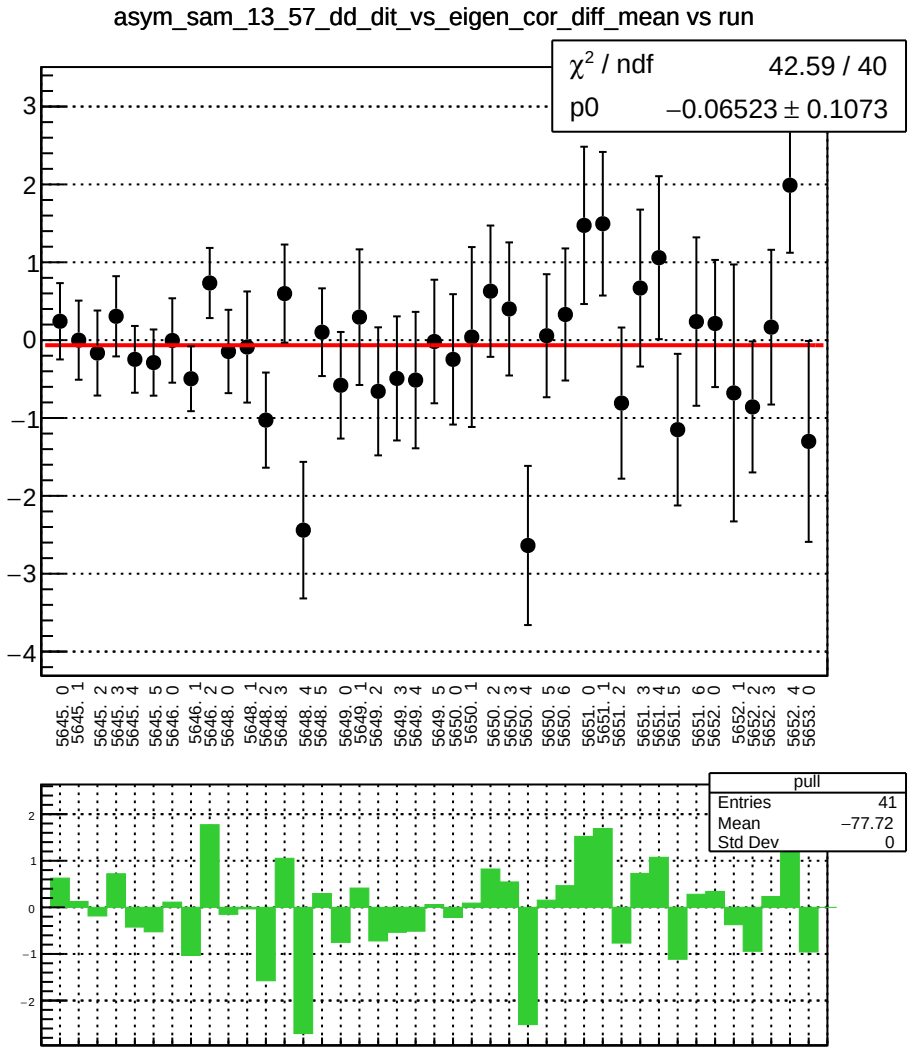

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 35.93 / 40
p0 1.266e−13 ± 7.055e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 322.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

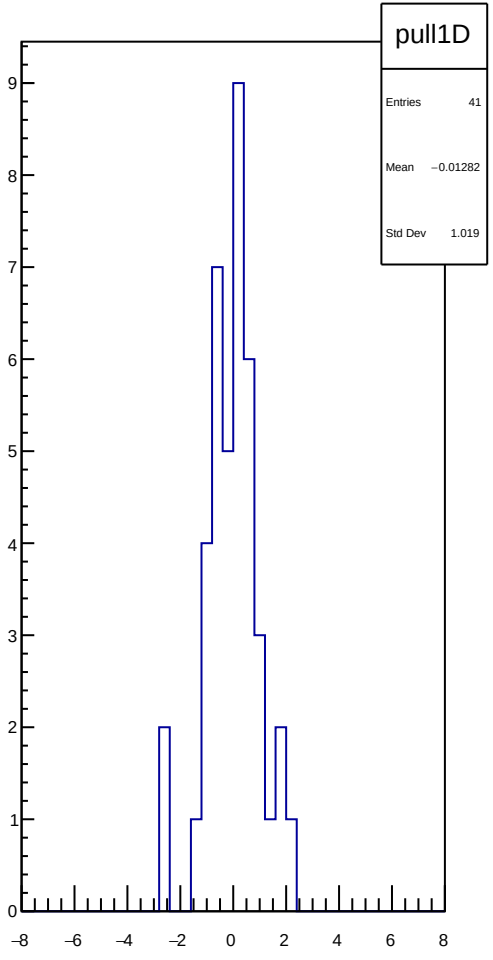

pull1D
Entries 41
Mean 0.005854
Std Dev 0.9362
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

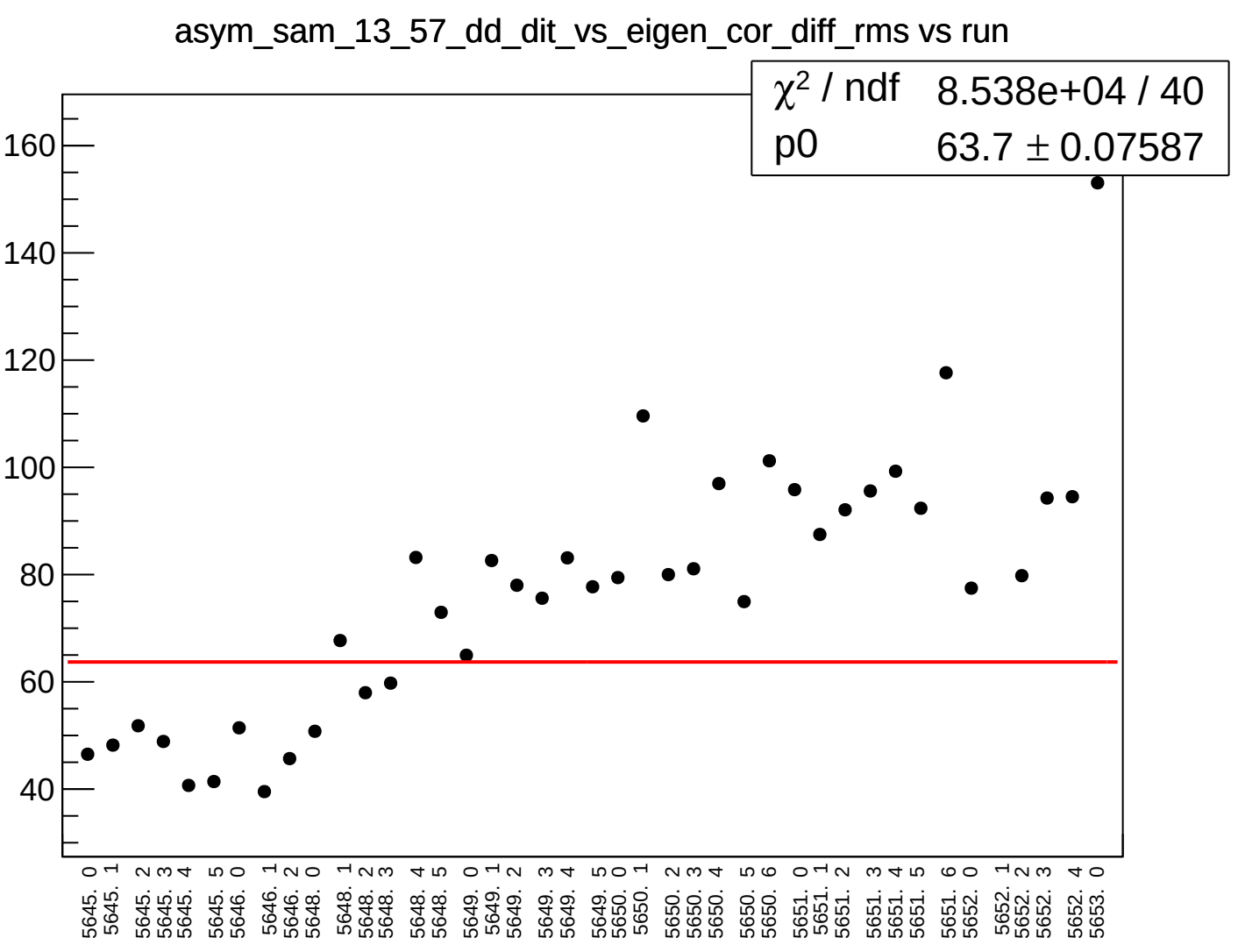

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.539e+05 / 40
p0 3.654e−11 ± 4.989e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

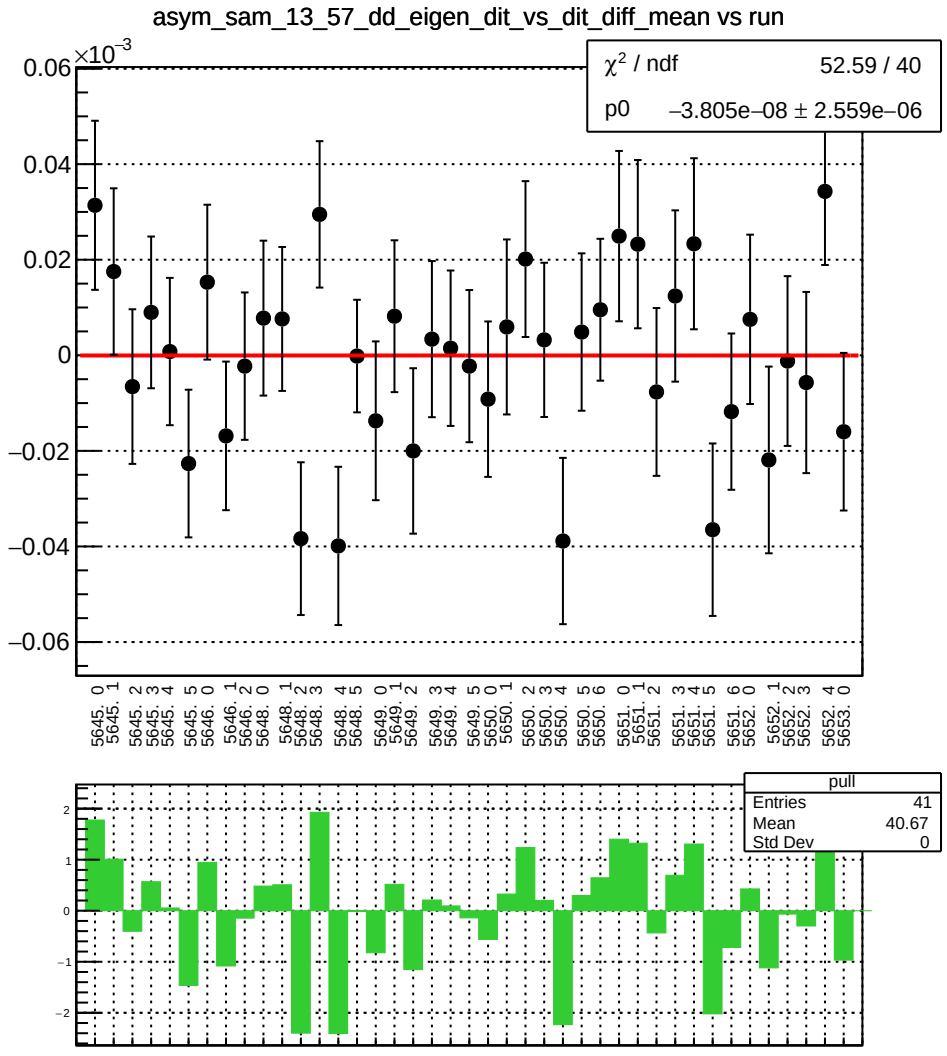

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.59 / 40
p0 −0.06523 ± 0.1073
pull
Entries 41
Mean −77.72
Std Dev 0
pull1D
Entries 41
Mean −0.01282
Std Dev 1.019

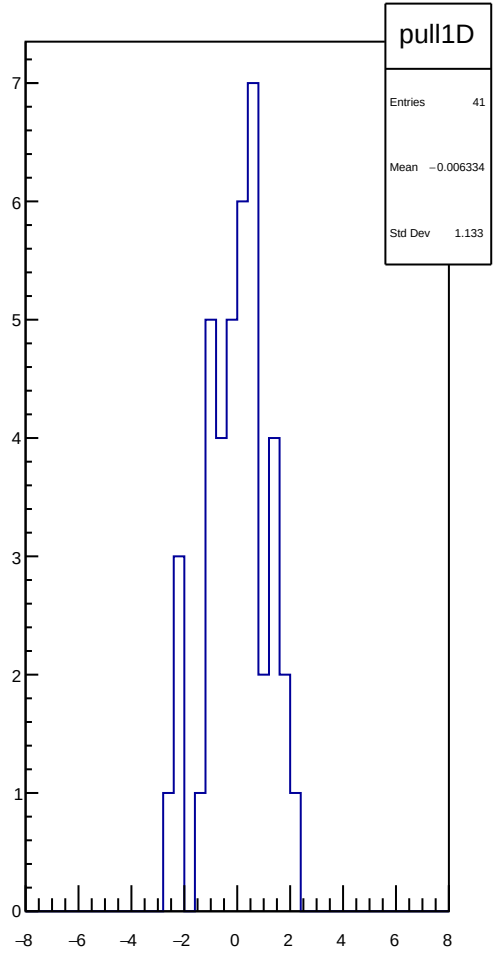

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.538e+04 / 40
p0 63.7 ± 0.07587
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

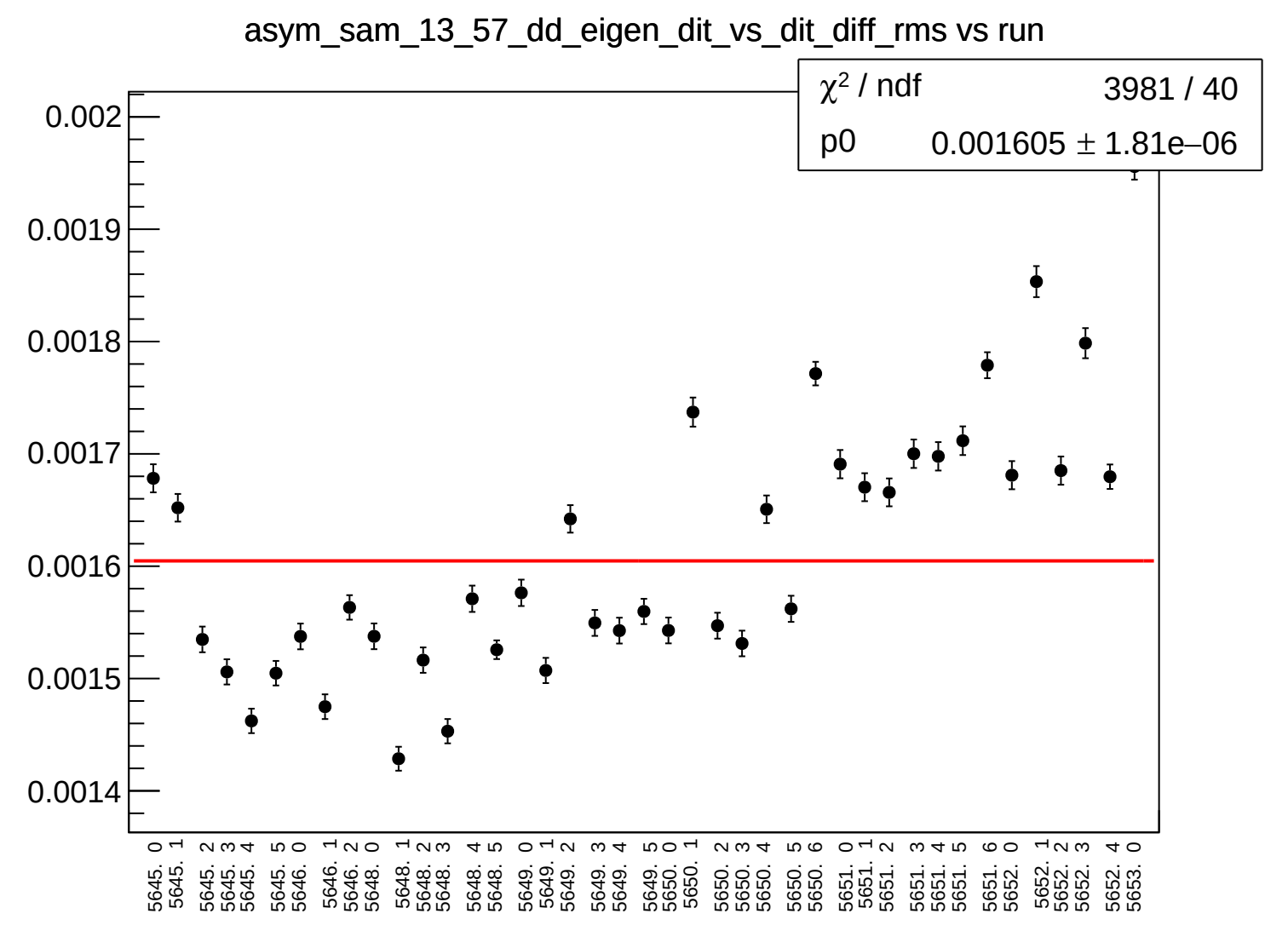

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.59 / 40
p0 −0.06523 ± 0.1073
pull
Entries 41
Mean −77.72
Std Dev 0

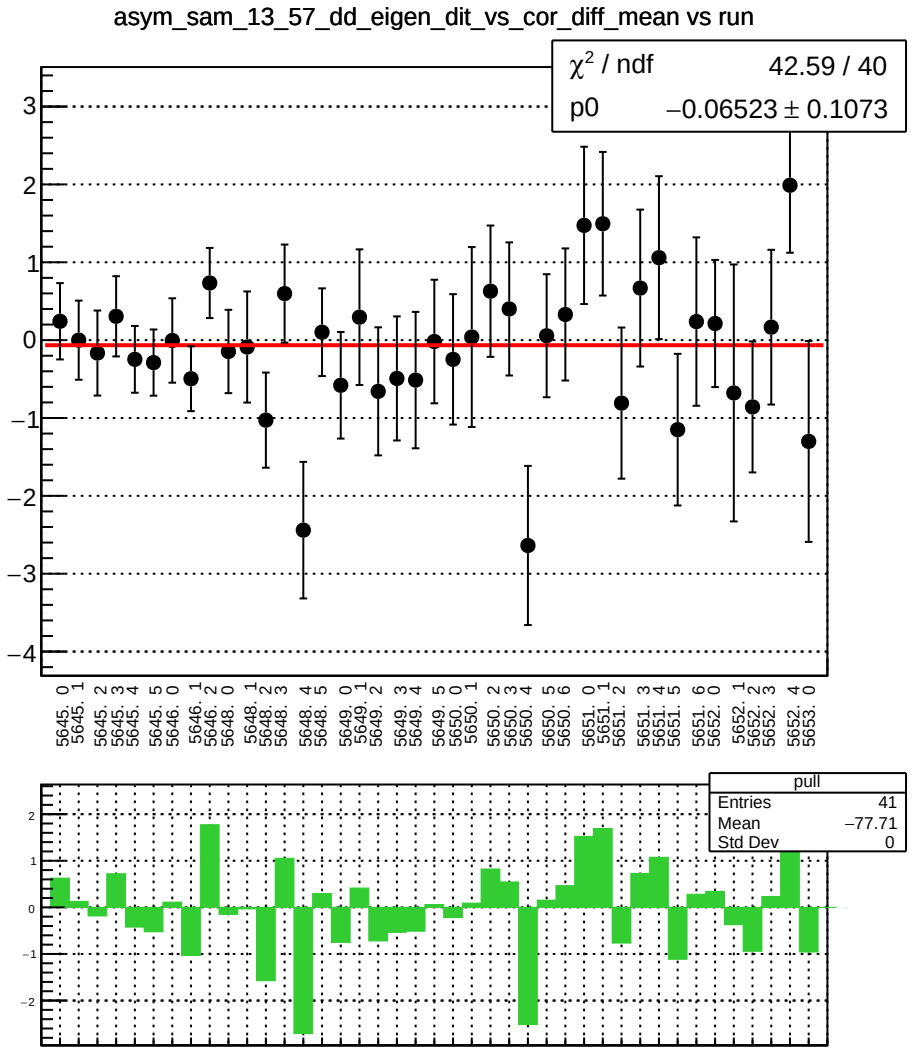

pull1D
Entries 41
Mean −0.01282
Std Dev 1.019

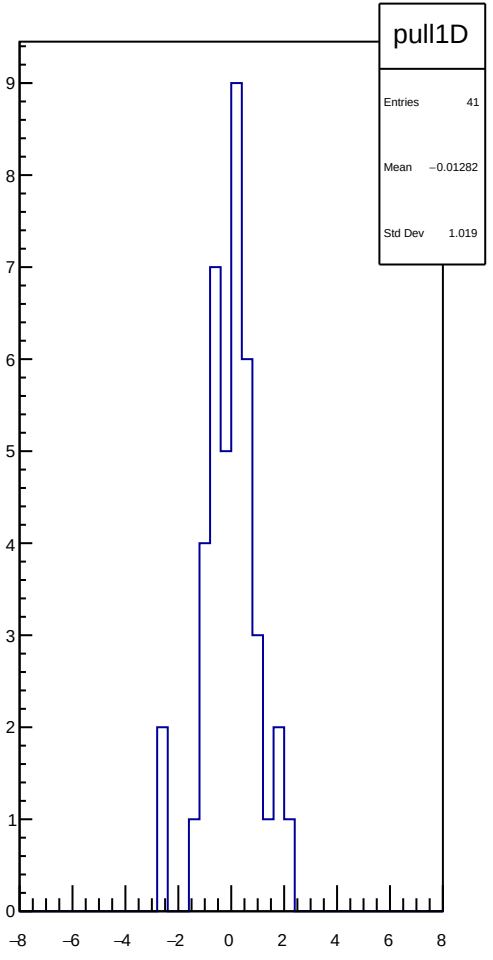

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.538e+04 / 40
p0 63.7 ± 0.07587
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

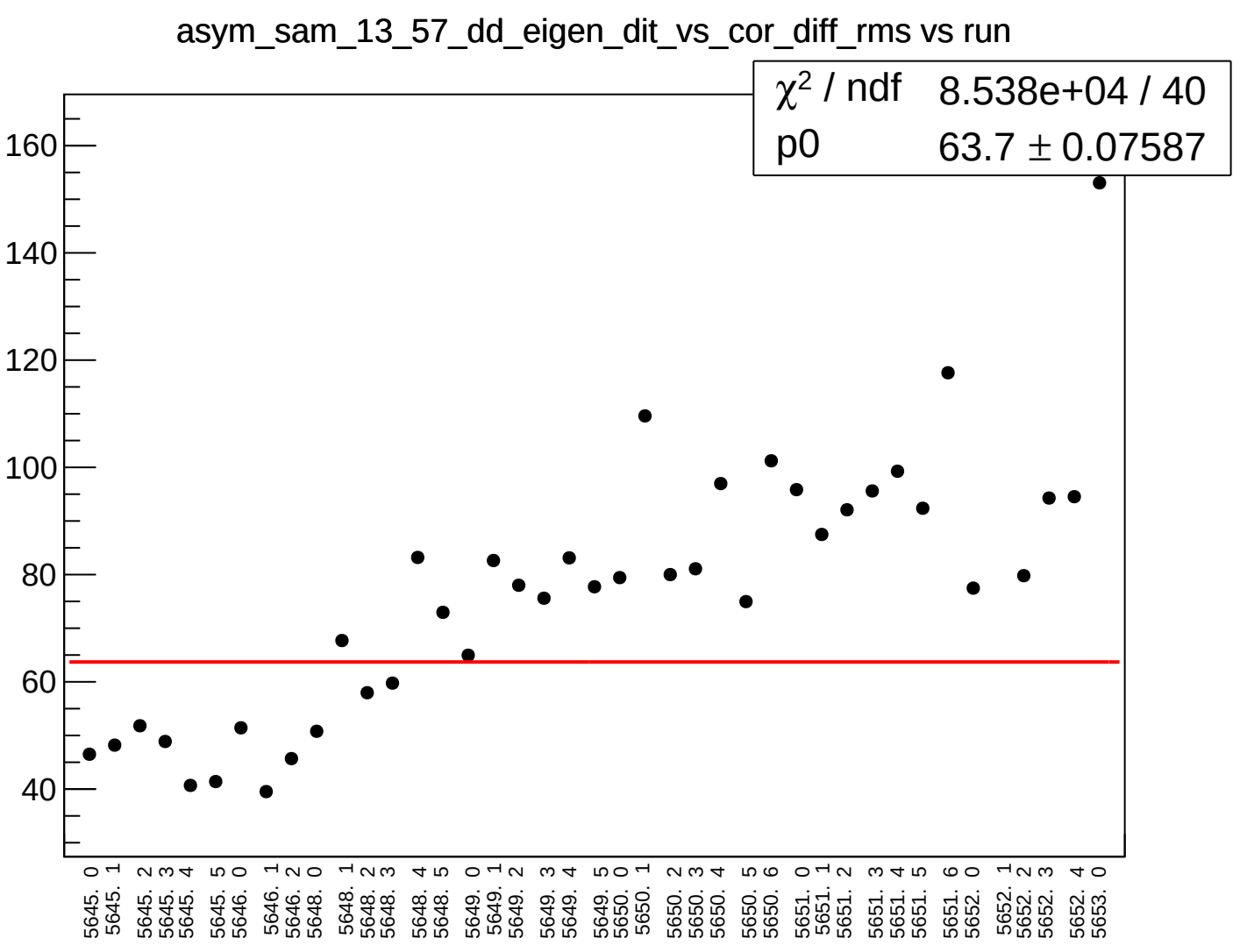

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.59 / 40
p0 −3.805e−08 ± 2.559e−06
pull
Entries 41
Mean 40.67
Std Dev 0

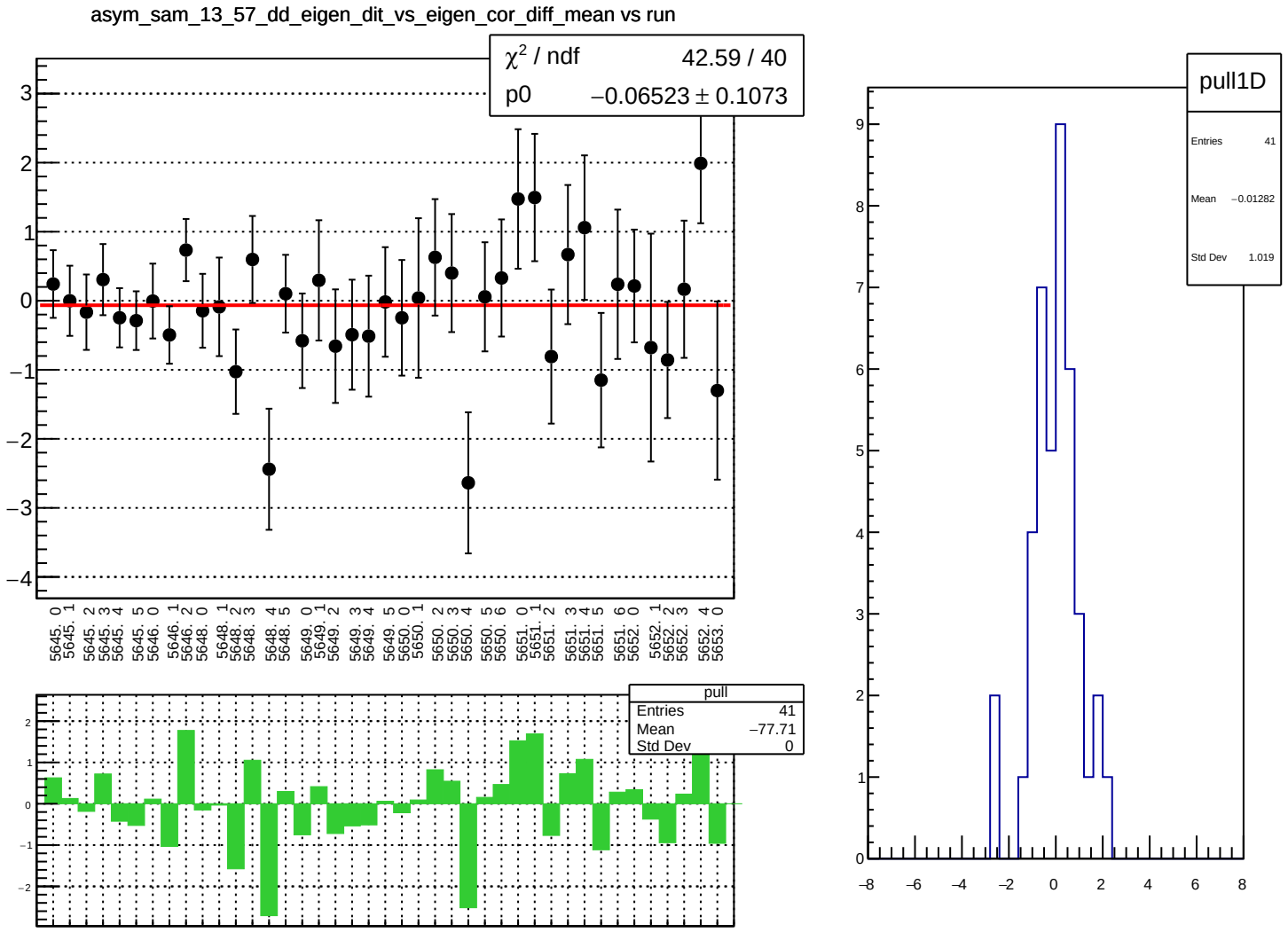

pull1D
Entries 41
Mean −0.006334
Std Dev 1.133

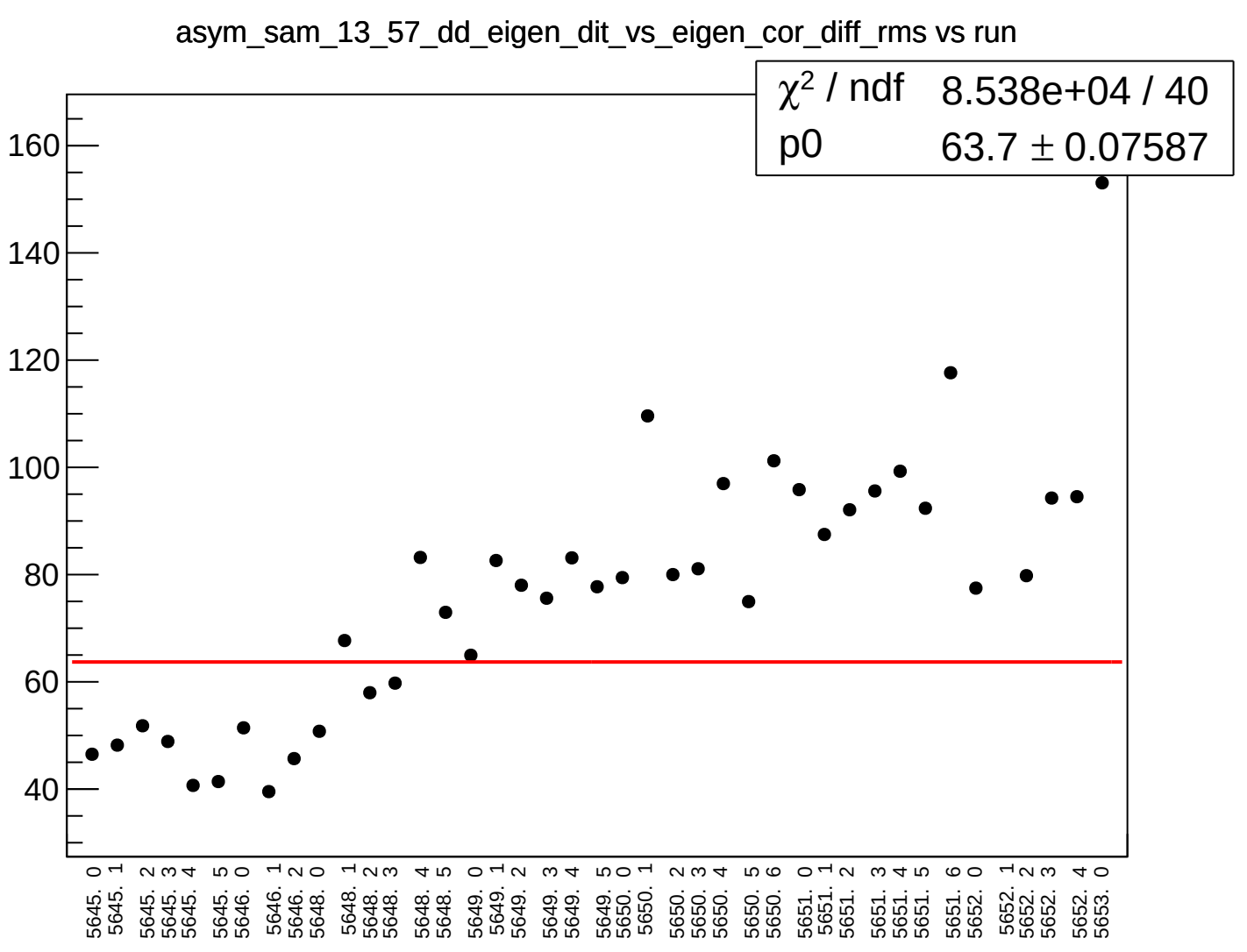

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3981 / 40
p0 0.001605 ± 1.81e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

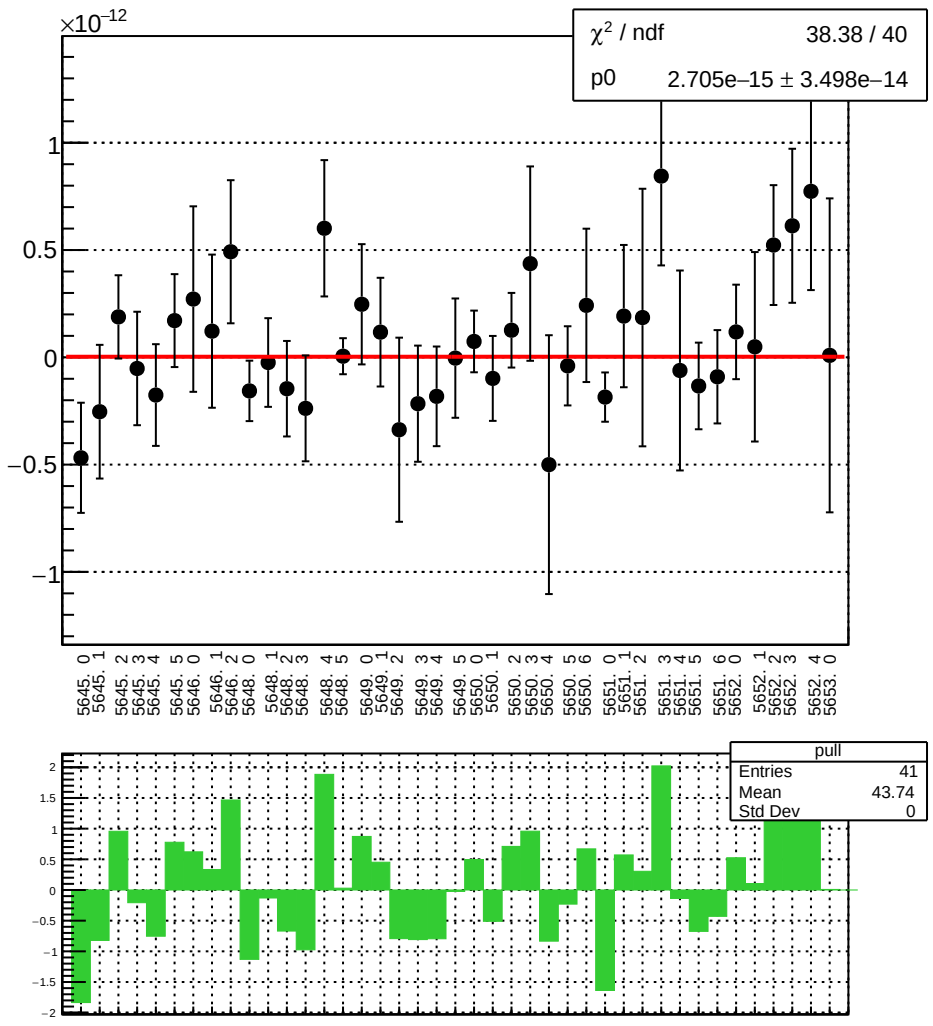

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.59 / 40
p0 −0.06523 ± 0.1073
pull
Entries 41
Mean −77.71
Std Dev 0

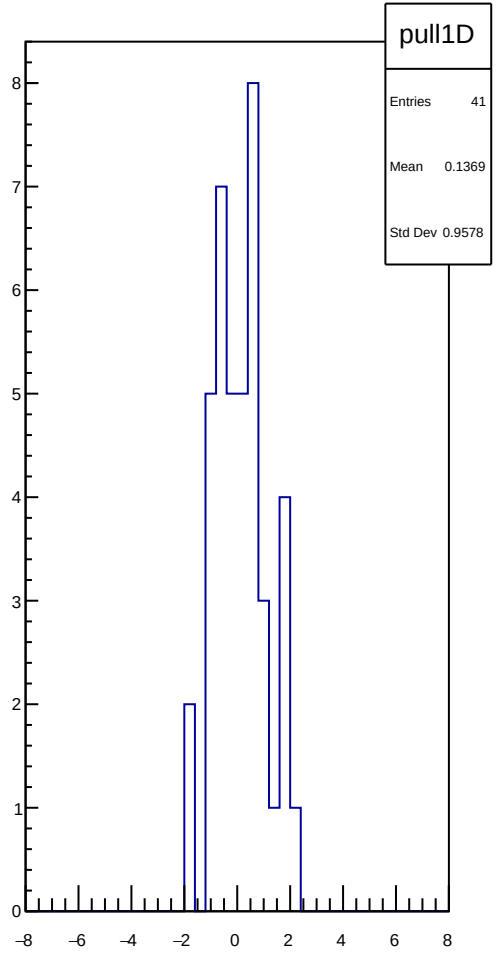

pull1D
Entries 41
Mean −0.01282
Std Dev 1.019

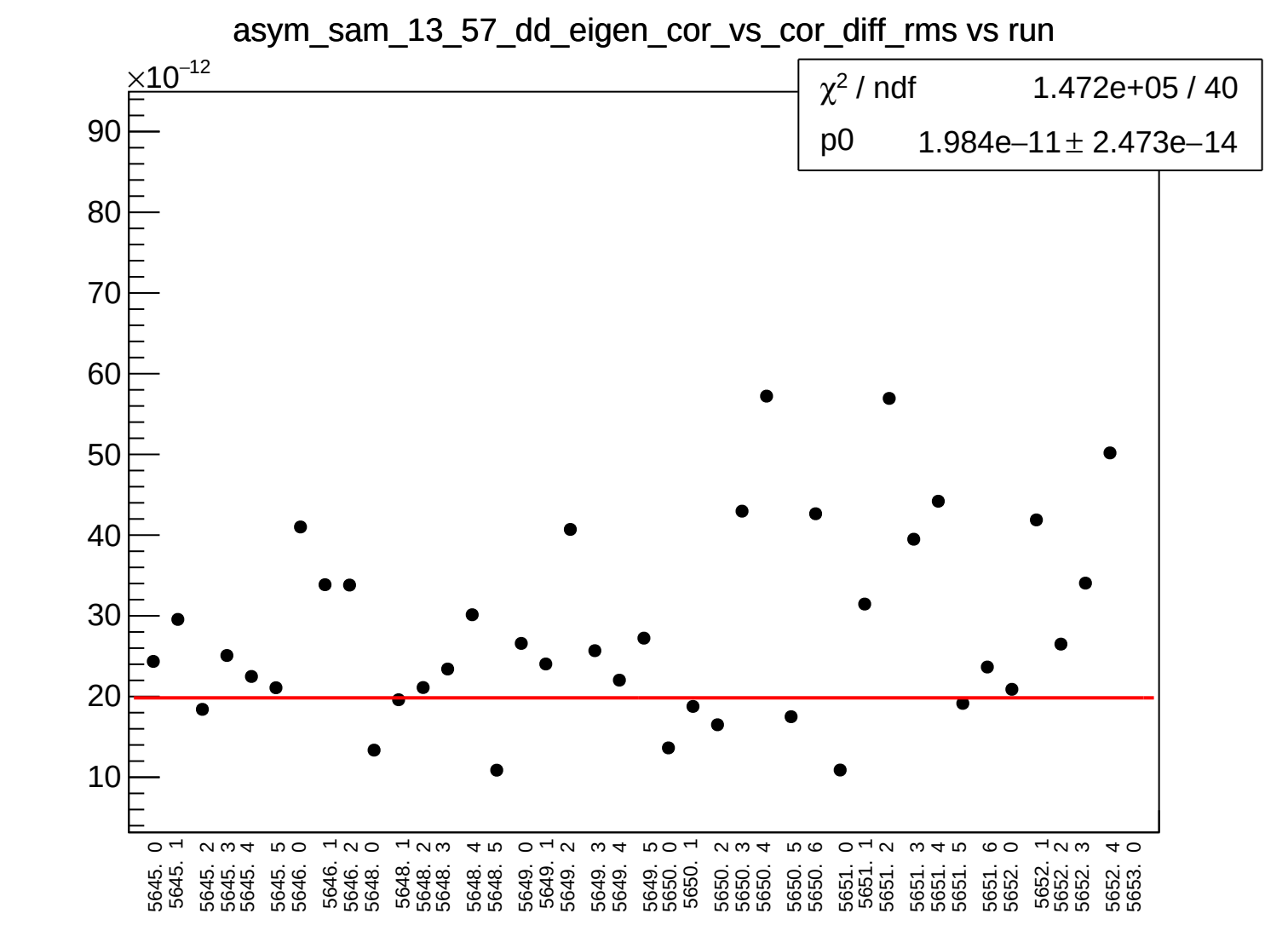

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.538e+04 / 40
p0 63.7 ± 0.07587
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

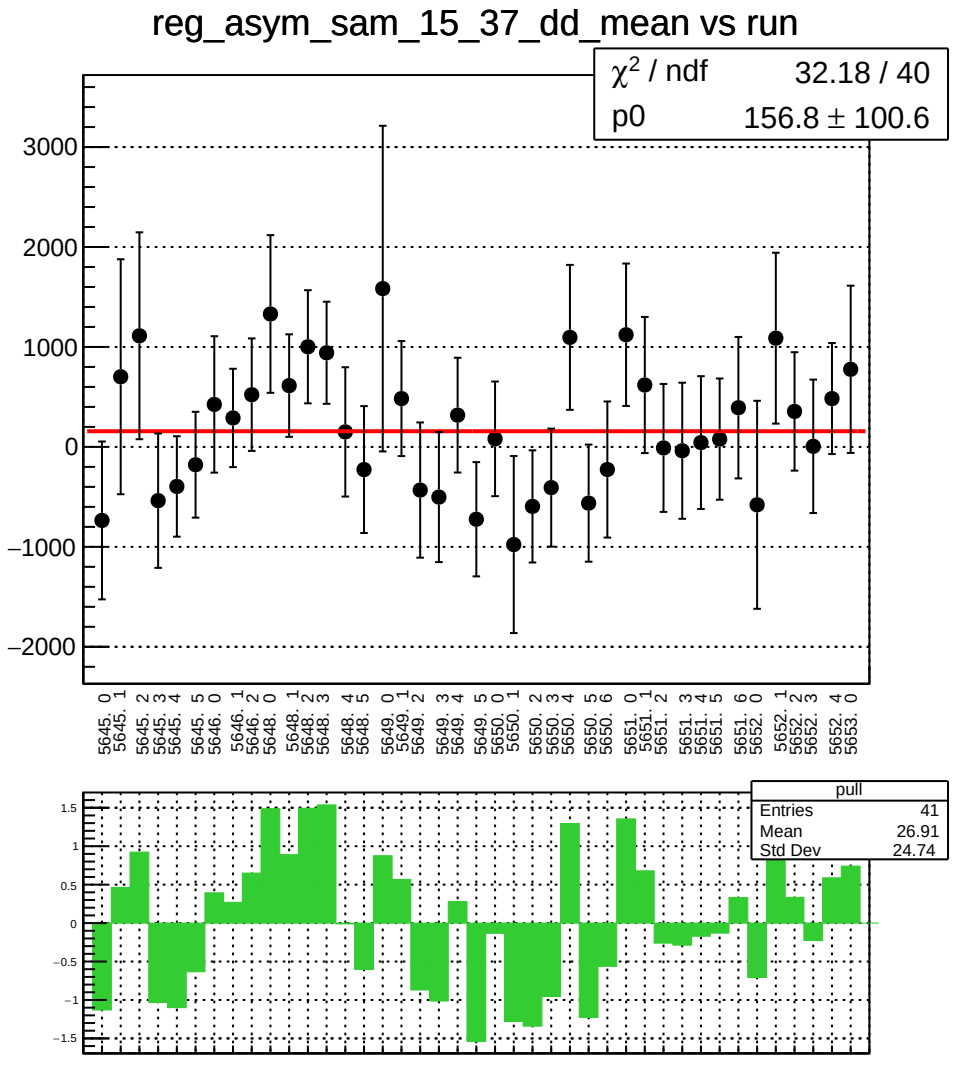

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.59 / 40
p0 −0.06523 ± 0.1073
pull
Entries 41
Mean −77.71
Std Dev 0
pull1D
Entries 41
Mean −0.01282
Std Dev 1.019

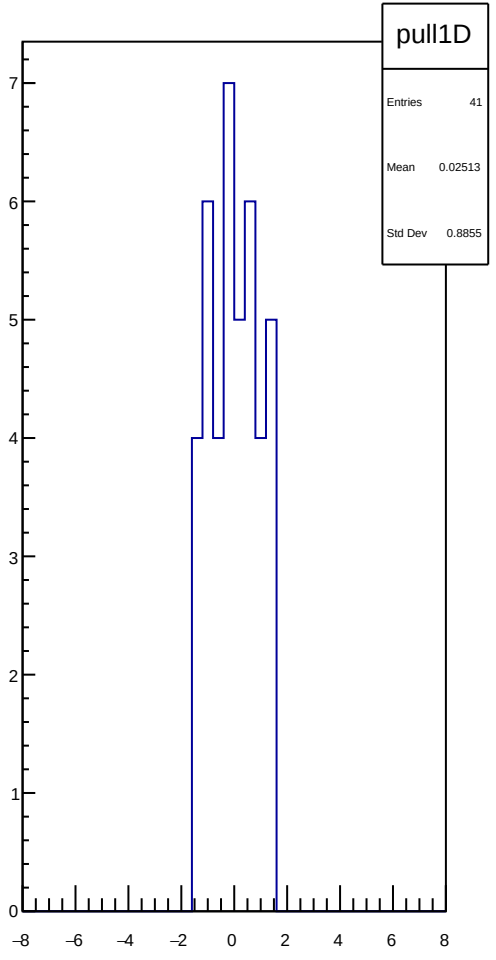

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.538e+04 / 40
p0 63.7 ± 0.07587
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

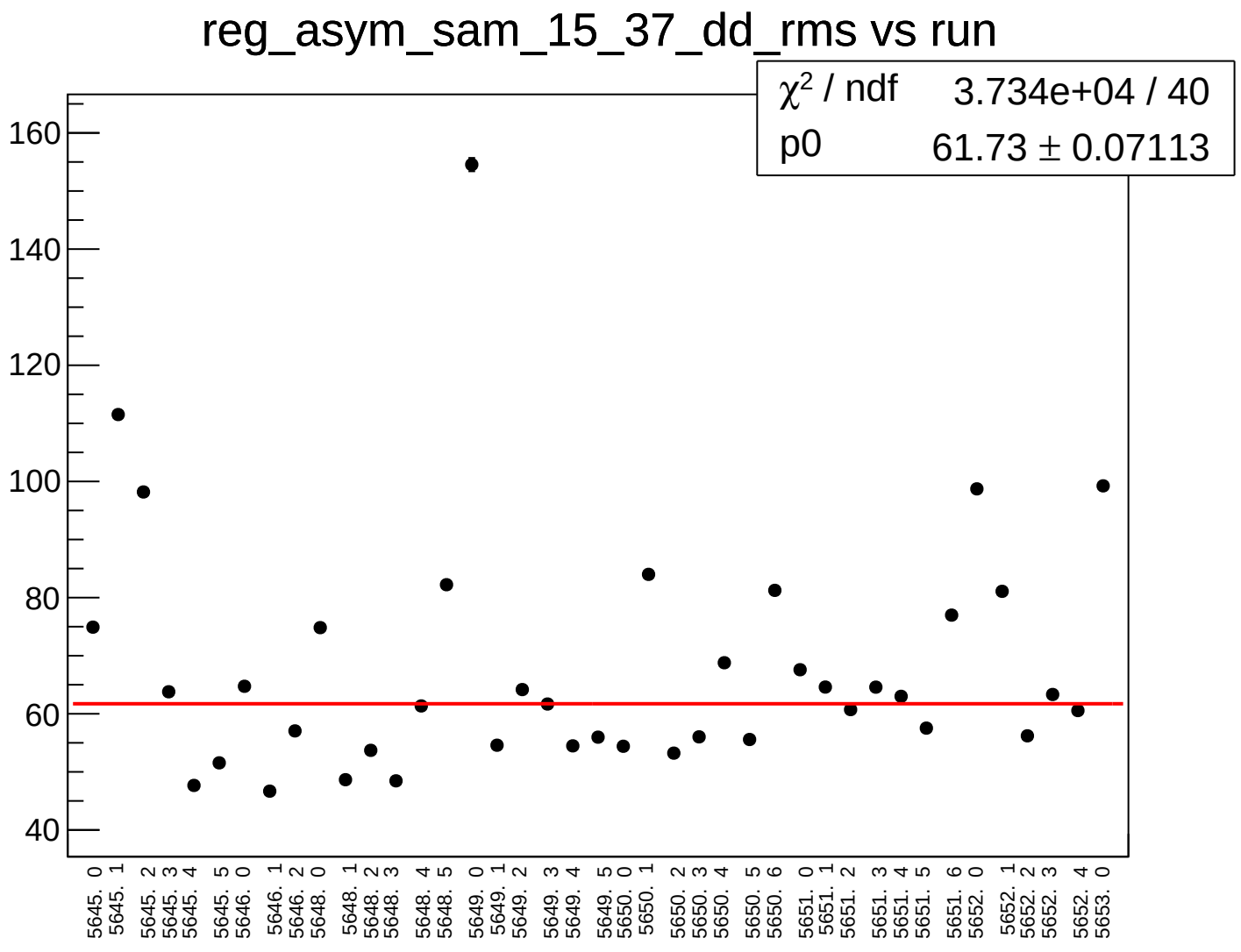

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.38 / 40
p0 2.705e−15 ± 3.498e−14
pull
Entries 41
Mean 43.74
Std Dev 0

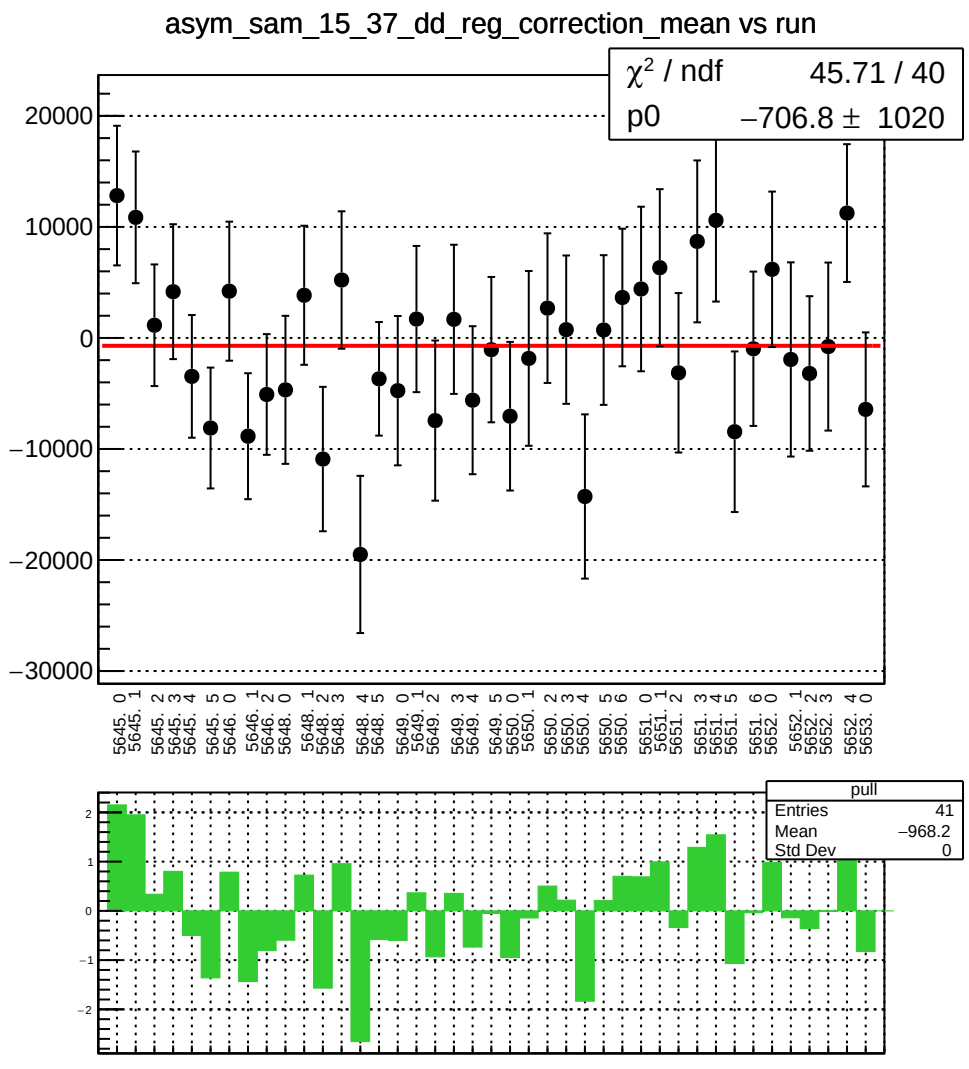

pull1D
Entries 41
Mean 0.1369
Std Dev 0.9578

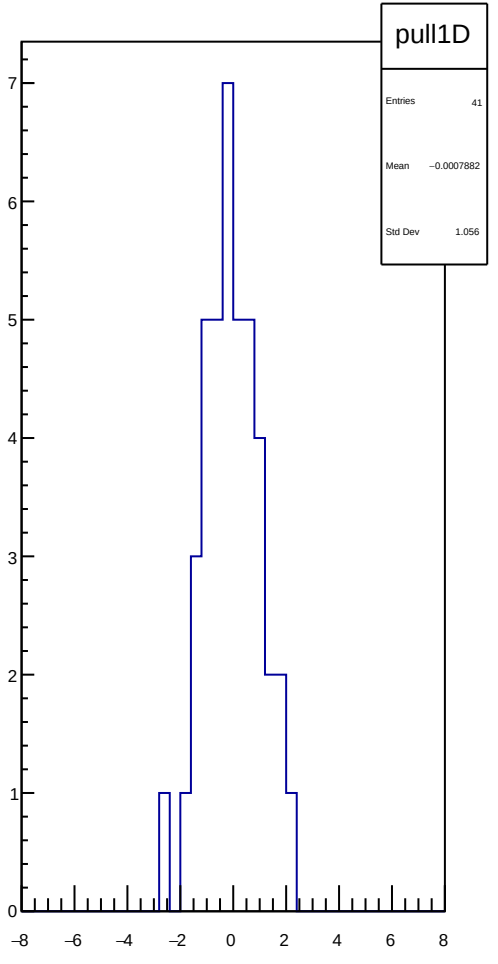

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.472e+05 / 40
p0 1.984e−11 ± 2.473e−14
90
80
70
60
50
40
30
20
10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

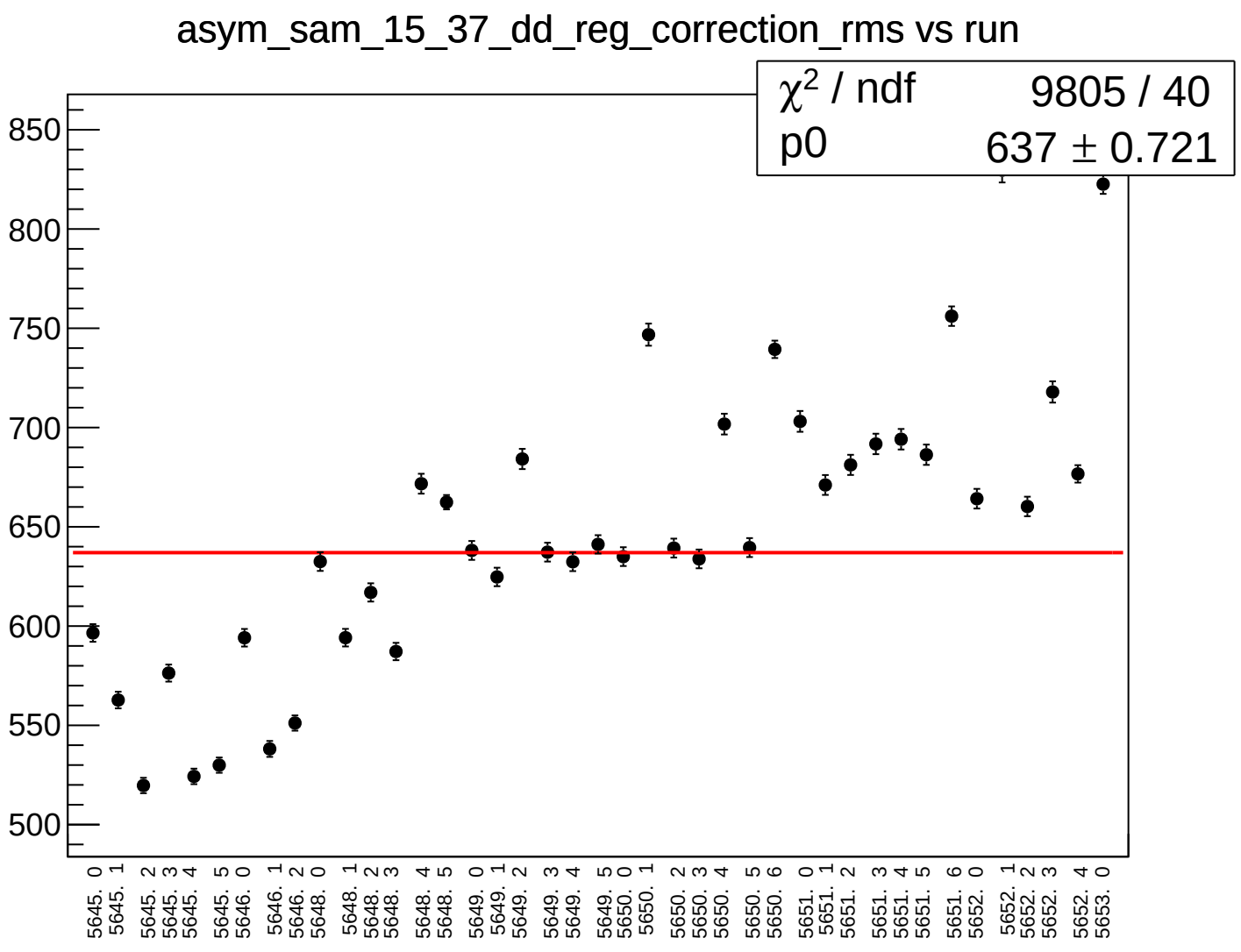

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 32.18 / 40
p0 156.8 ± 100.6
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 26.91
Std Dev 24.74
1.5
1
0.5
0
−0.5
−1
−1.5

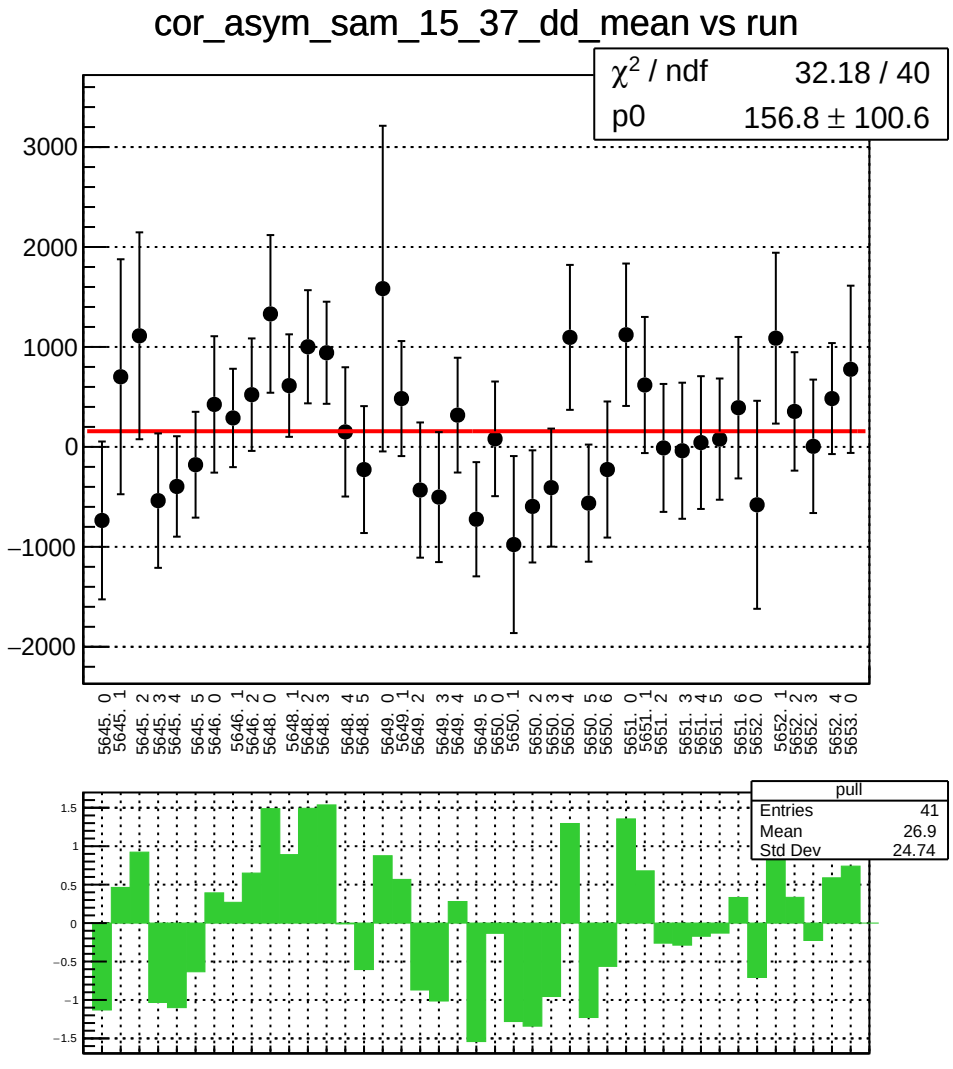

pull1D
Entries 41
Mean 0.02513
Std Dev 0.8855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

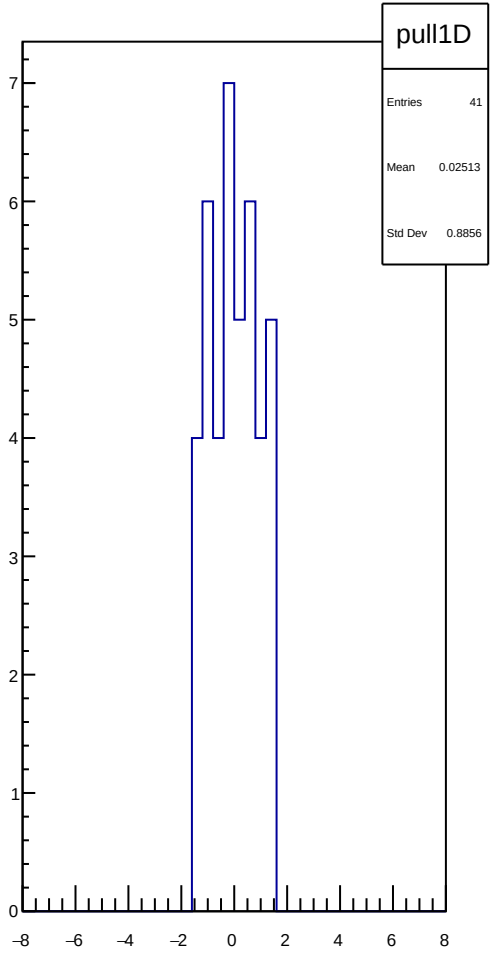

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.734e+04 / 40
p0 61.73 ± 0.07113
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

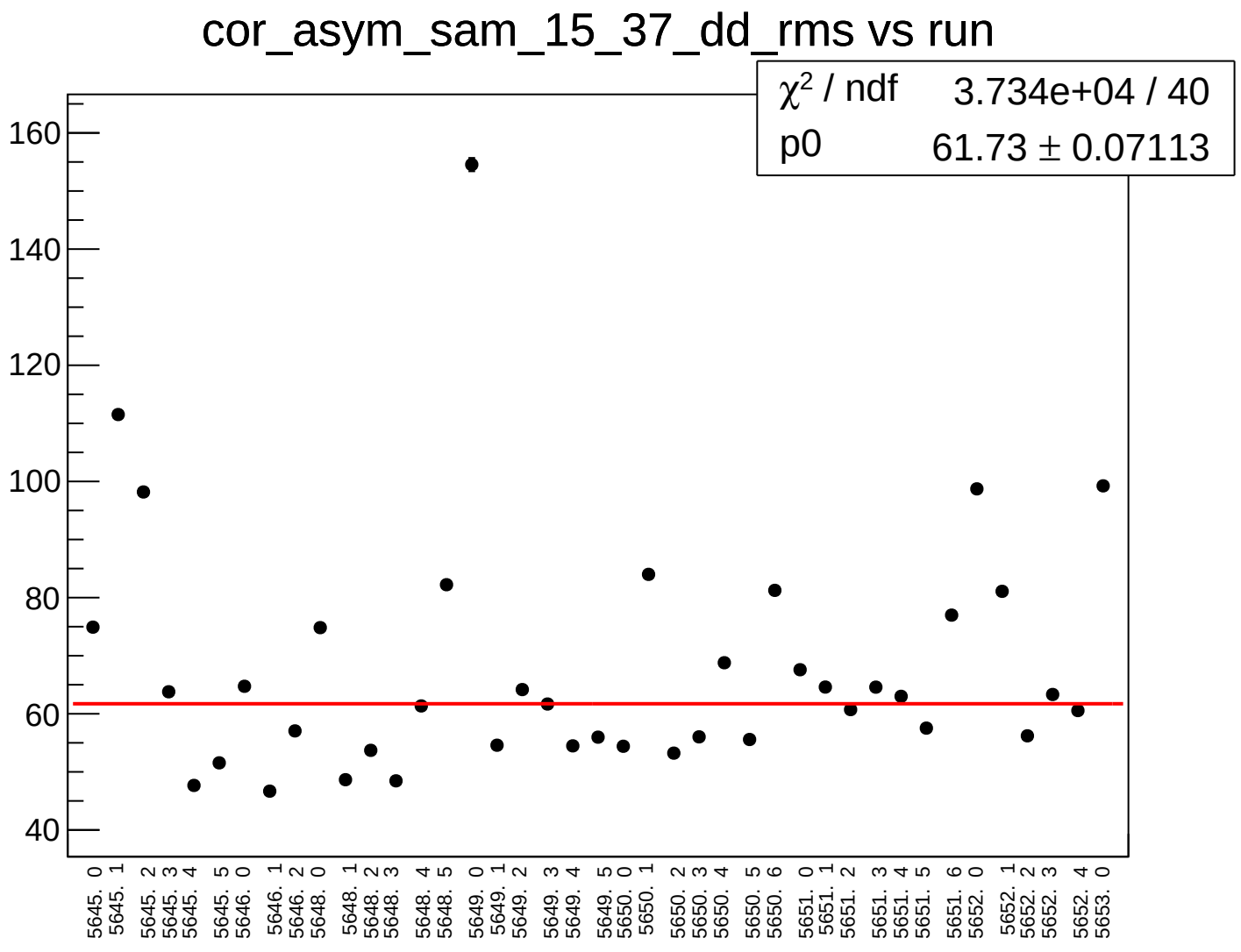

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 45.71 / 40
p0 −706.8 ± 1020
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −968.2
Std Dev 0
2
1
0
−1
−2

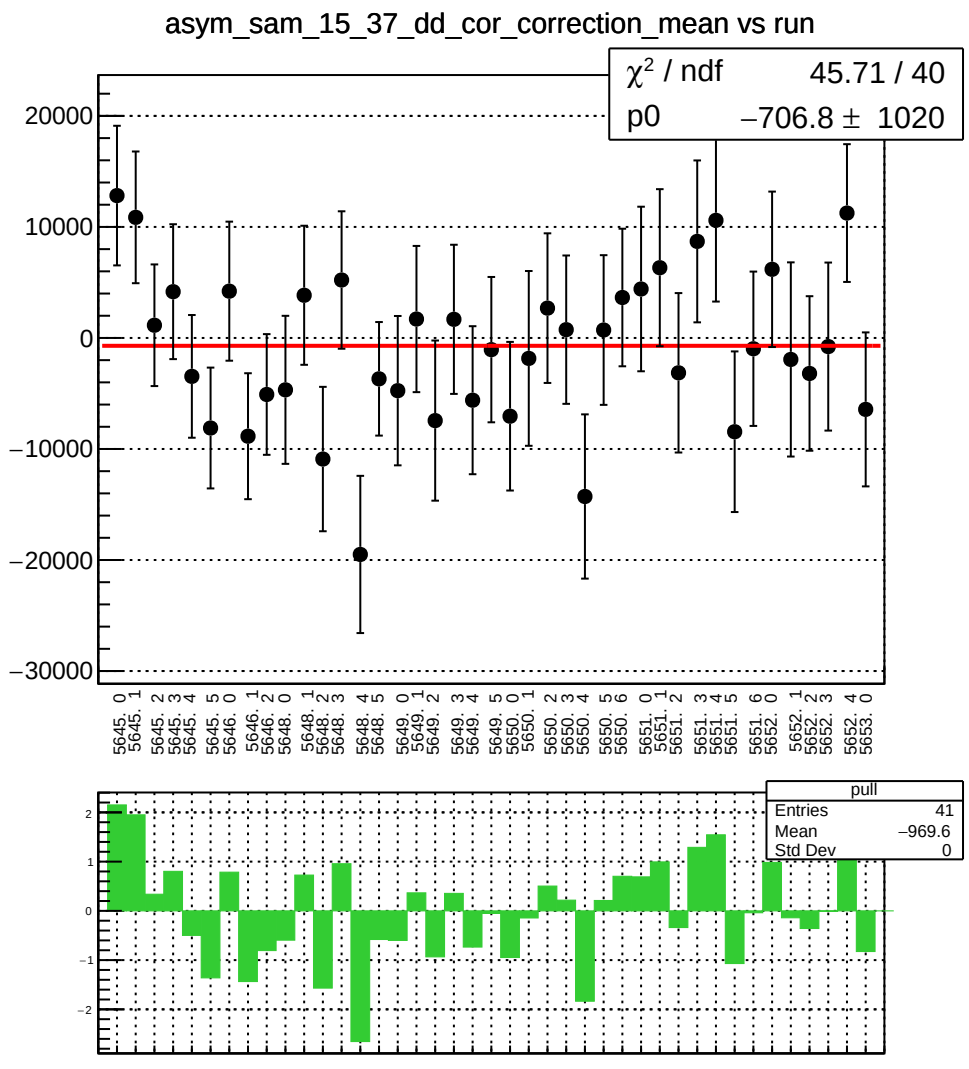

pull1D
Entries 41
Mean −0.0007882
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

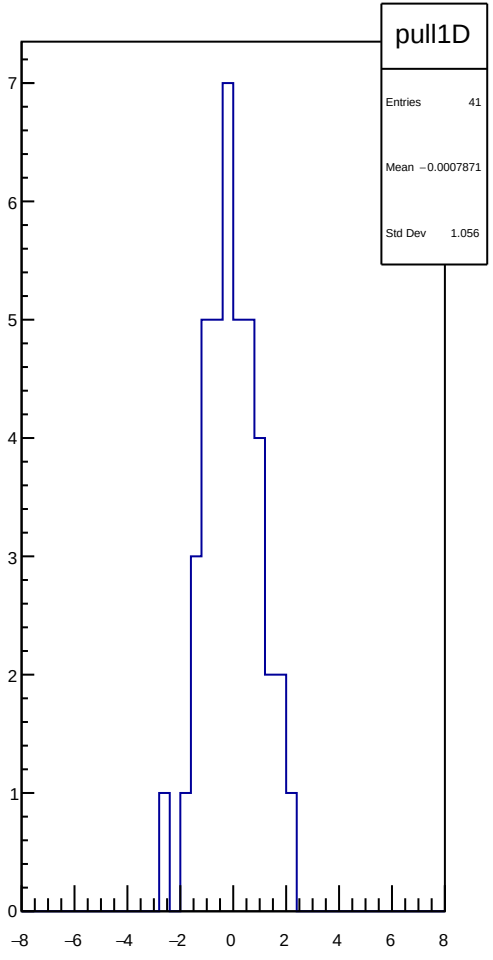

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 9805 / 40
p0 637 ± 0.721
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

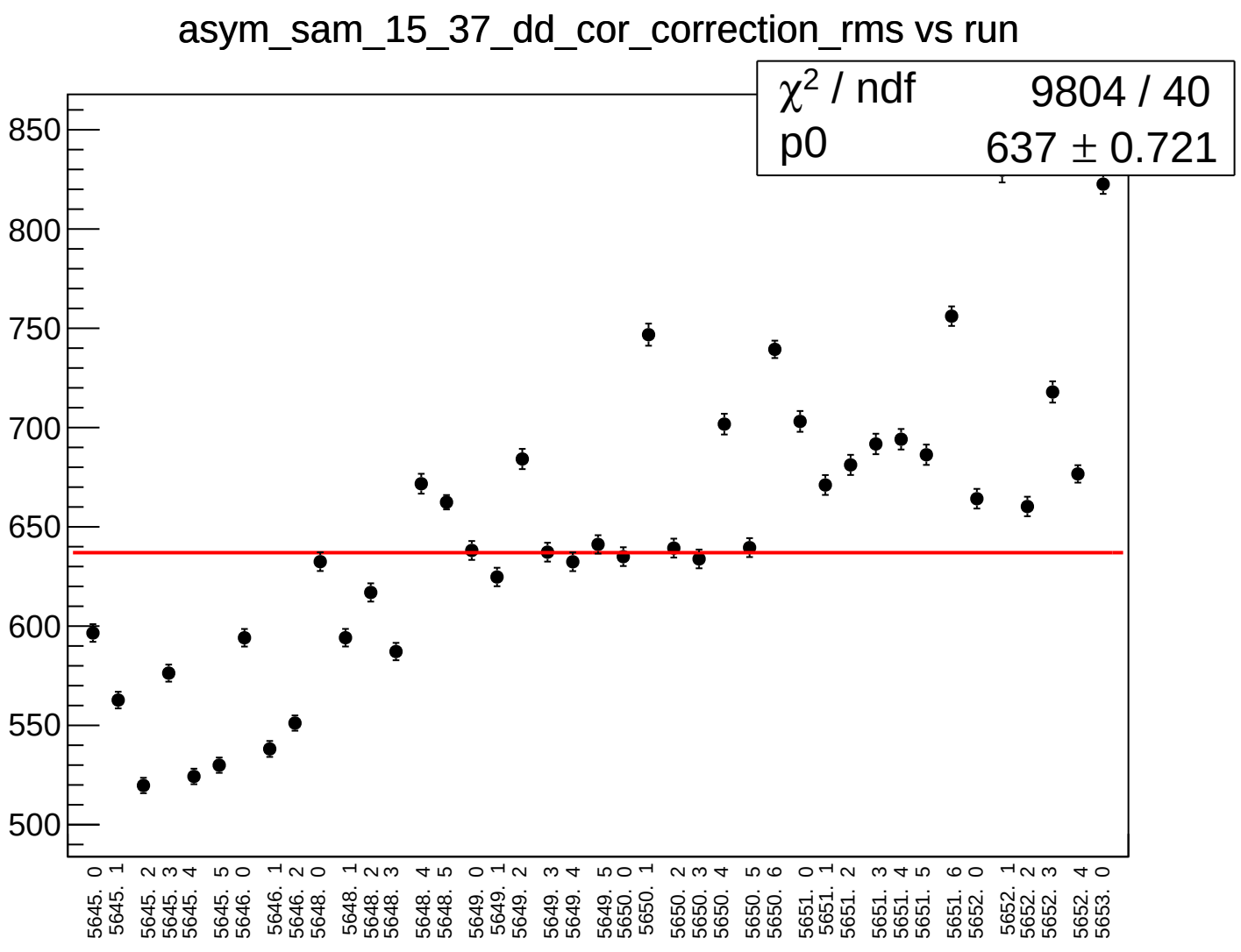

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 32.18 / 40
p0 156.8 ± 100.6
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 26.9
Std Dev 24.74
1.5
1
0.5
0
−0.5
−1
−1.5

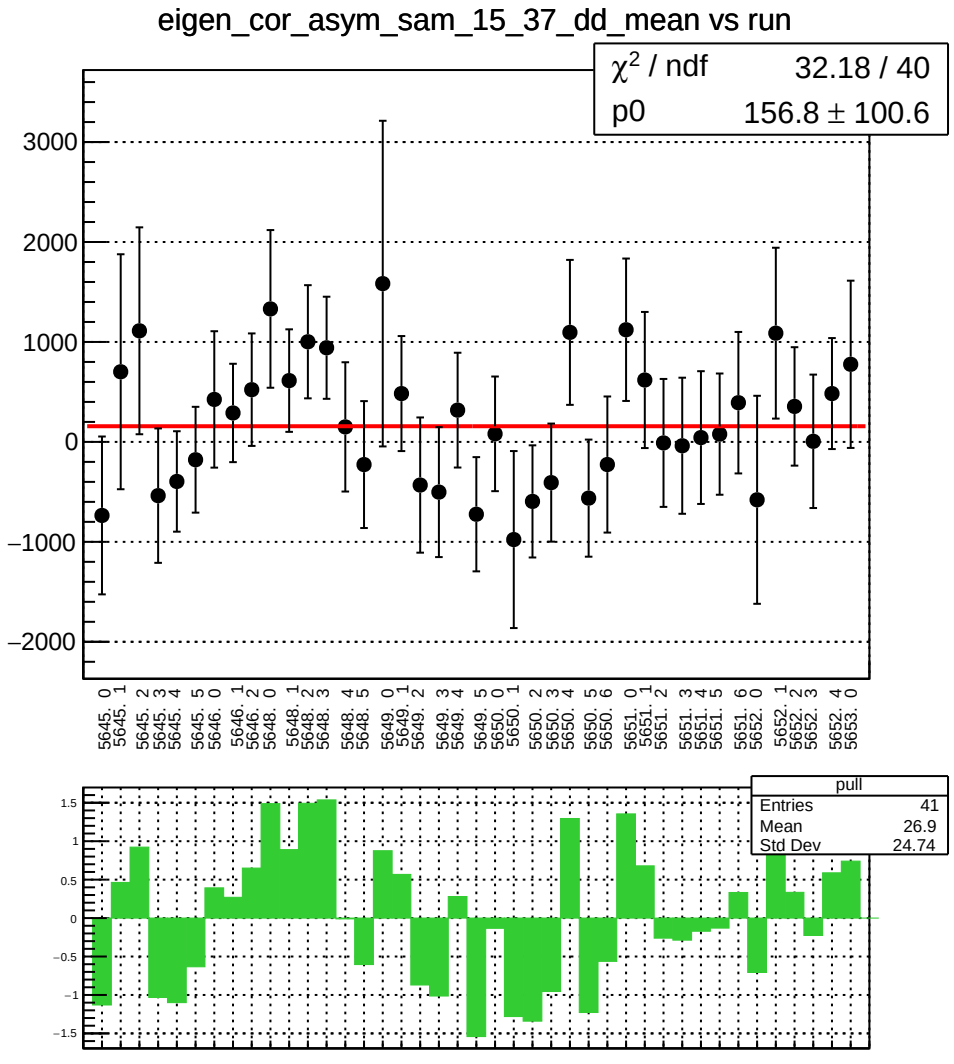

pull1D
Entries 41
Mean 0.02513
Std Dev 0.8856
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

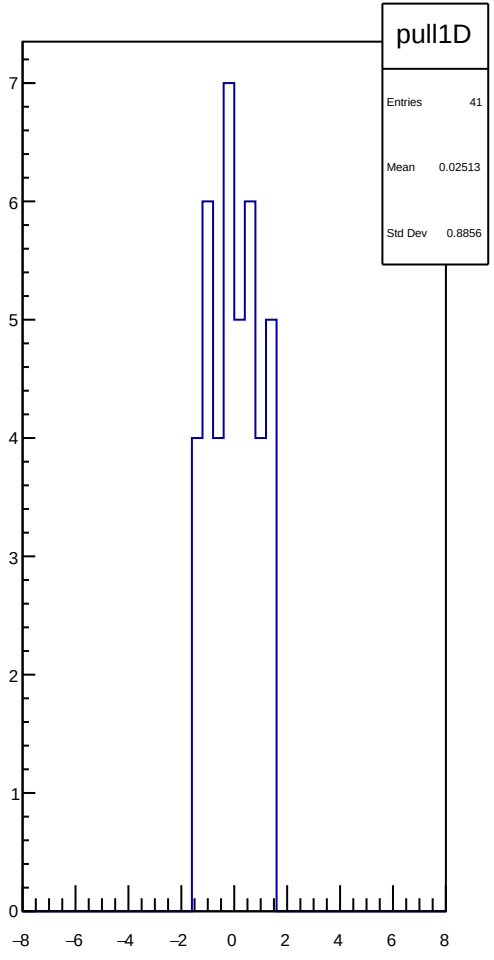

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.734e+04 / 40
p0 61.73 ± 0.07113
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

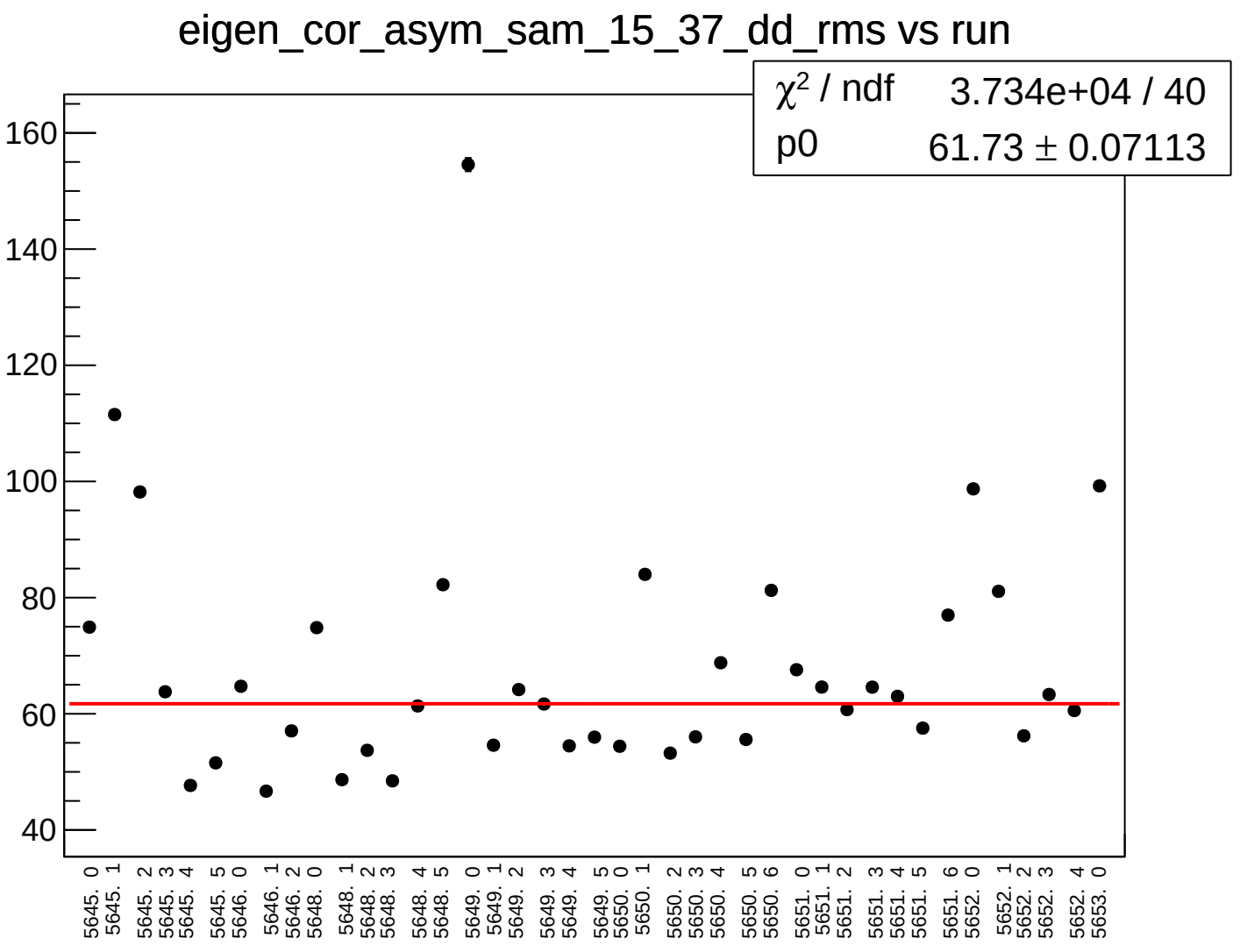

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 45.71 / 40
p0 −706.8 ± 1020
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −969.6
Std Dev 0
2
1
0
−1
−2

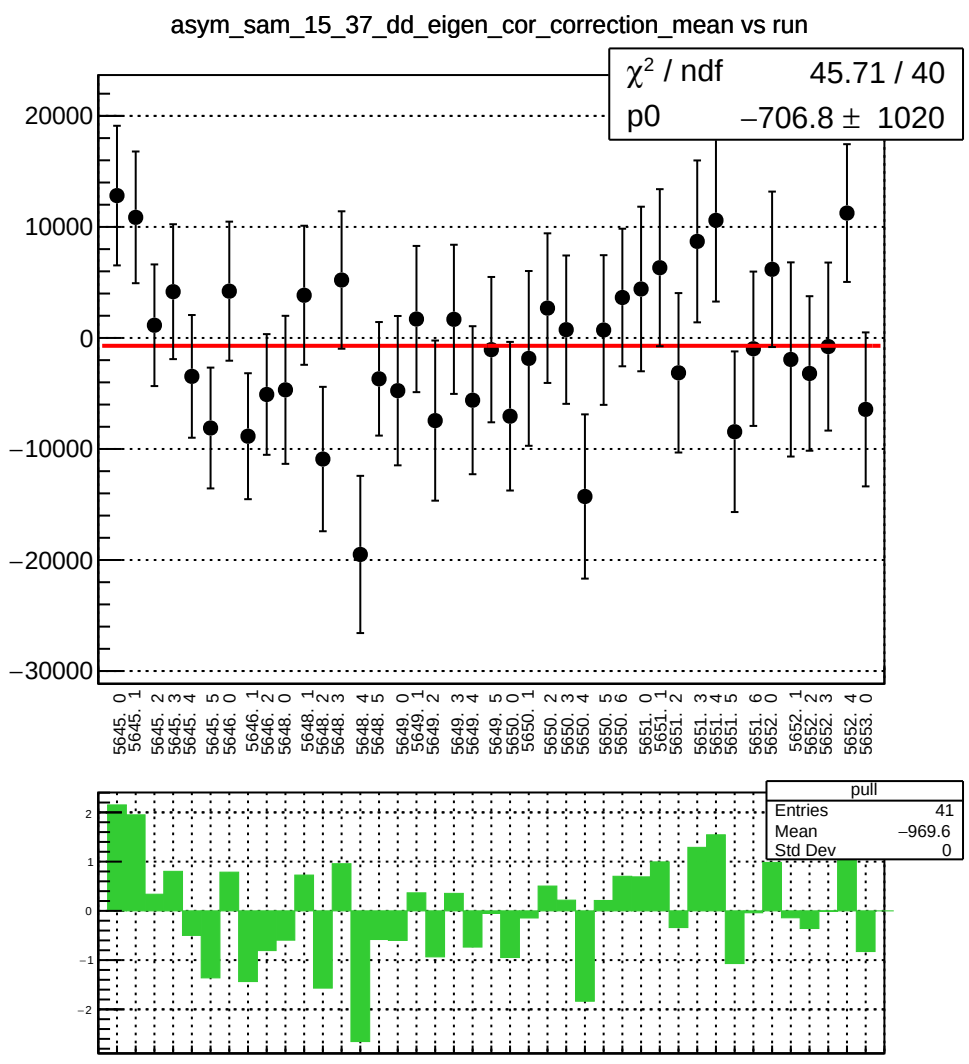

pull1D
Entries 41
Mean −0.0007871
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

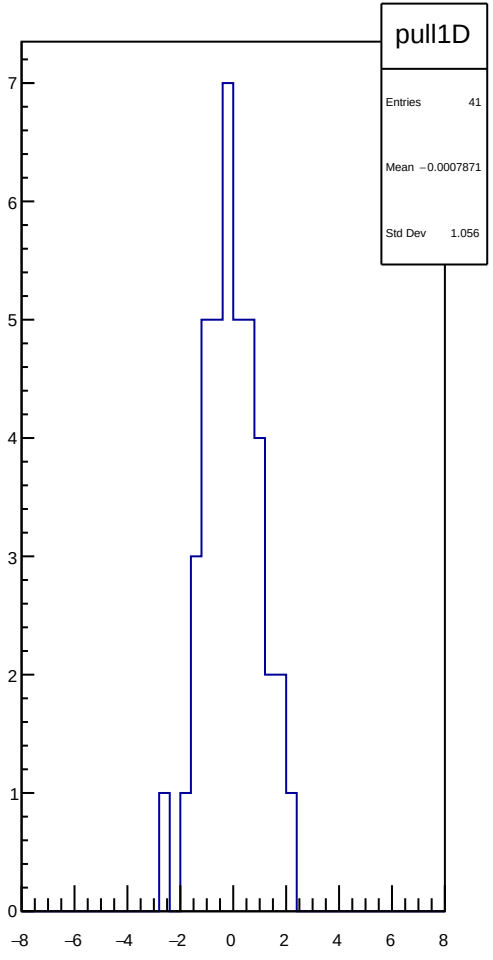

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 9804 / 40
p0 637 ± 0.721
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

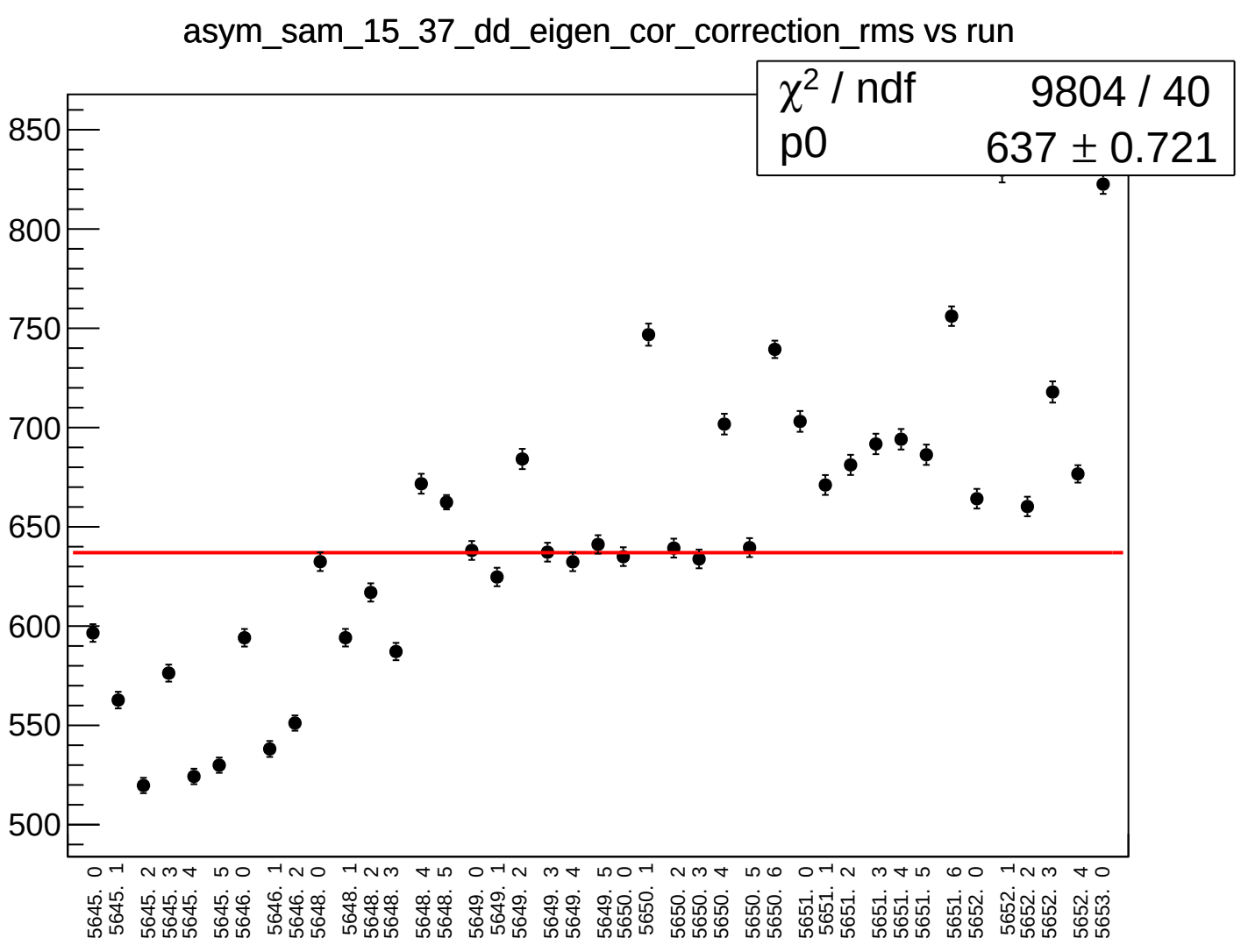

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 32.18 / 40
p0 156.8 ± 100.6
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 26.9
Std Dev 24.74
1.5
1
0.5
0
−0.5
−1
−1.5

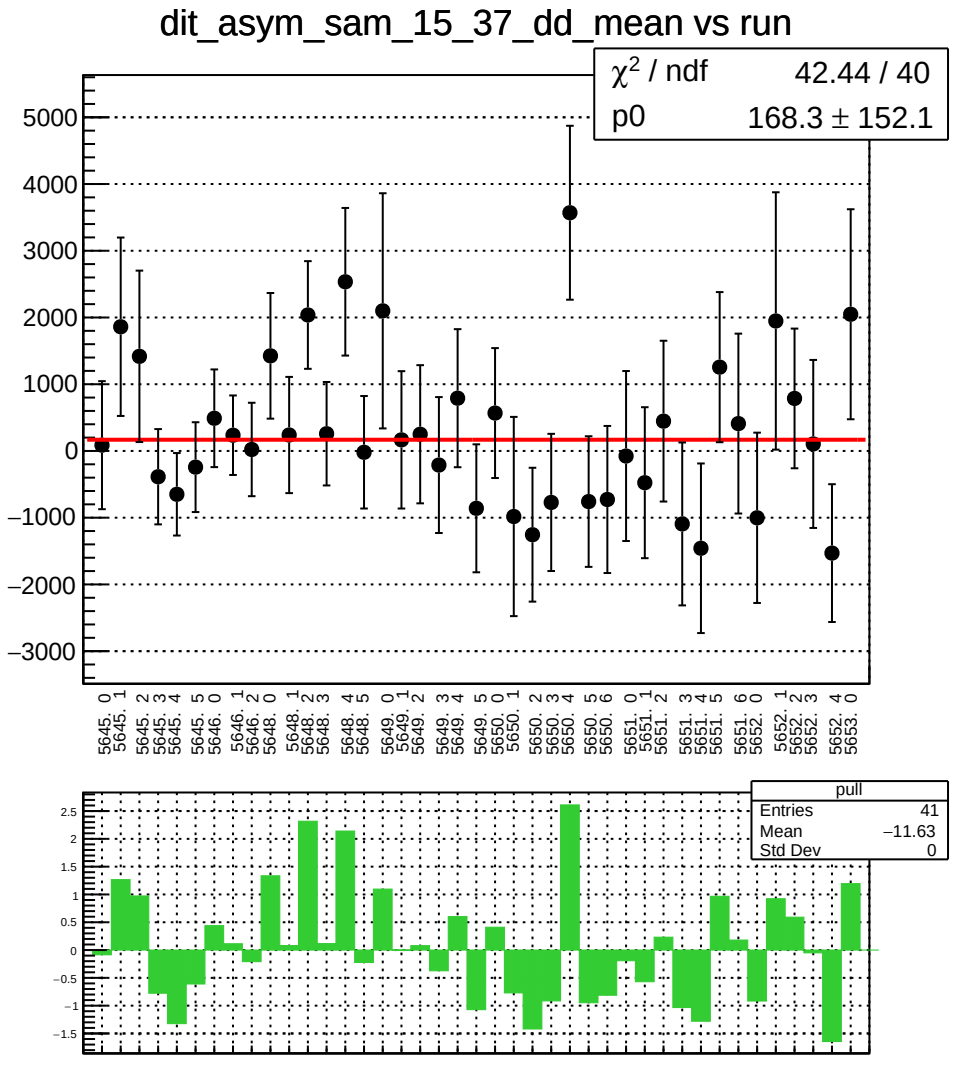

pull1D
Entries 41
Mean 0.02513
Std Dev 0.8856
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

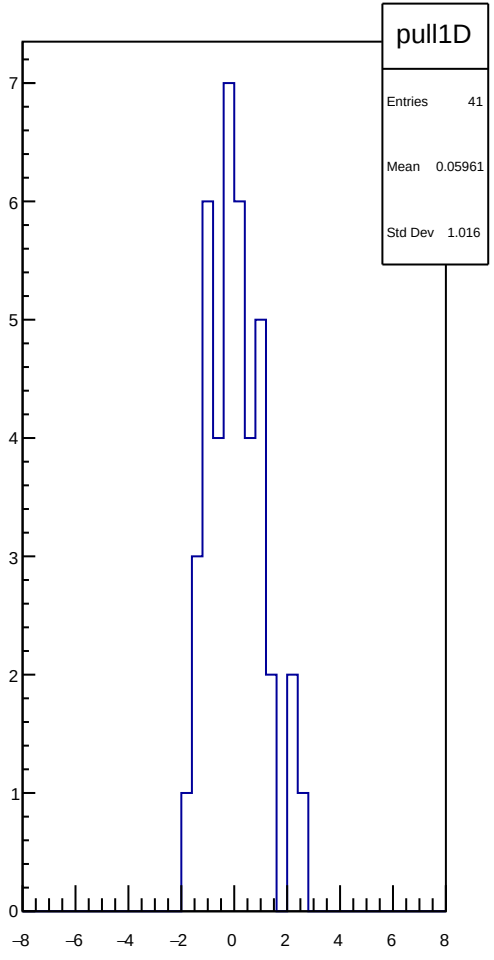

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.734e+04 / 40
p0 61.73 ± 0.07113
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

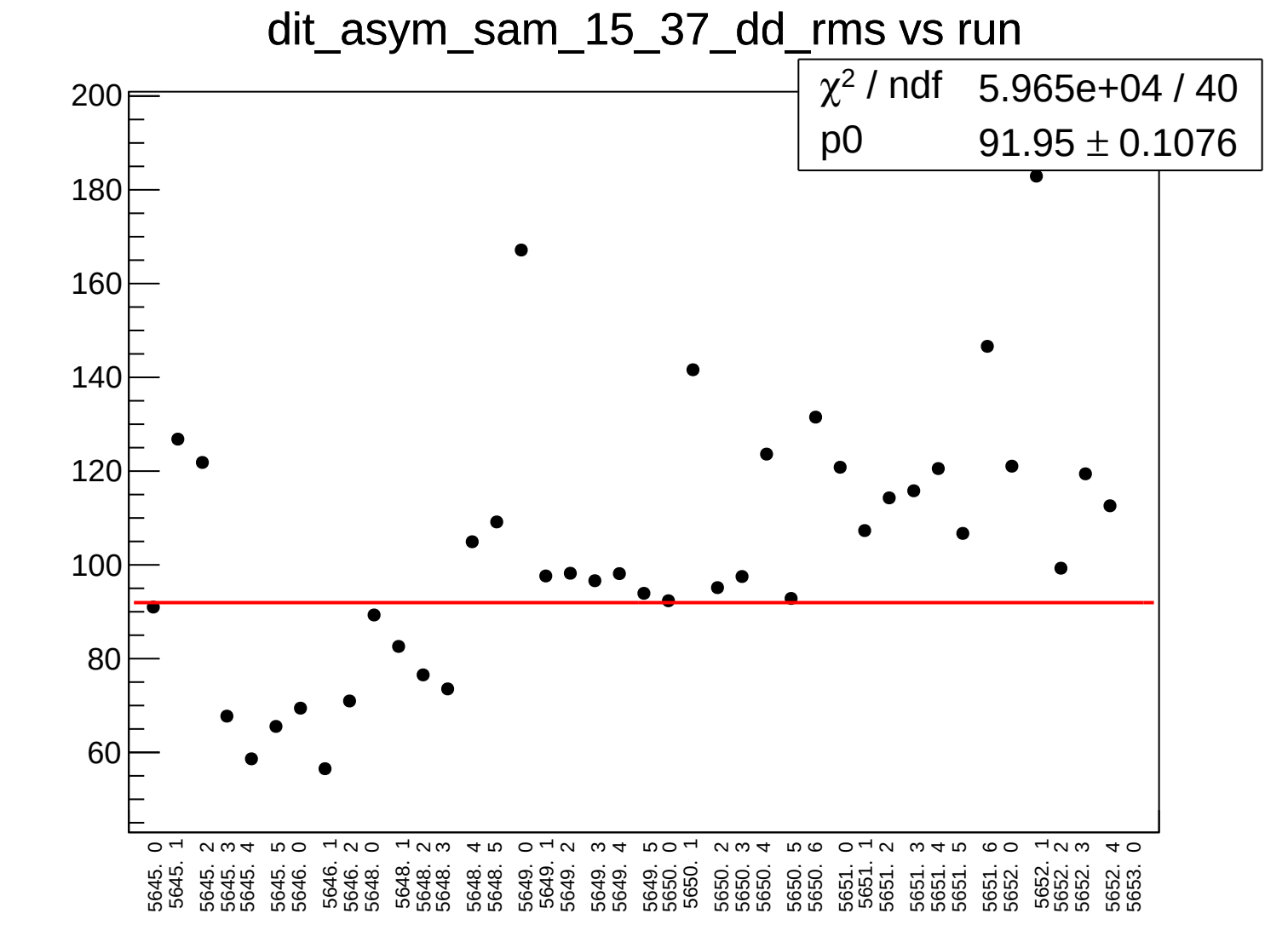

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.71 / 40
p0 −706.8 ± 1020
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −969.6
Std Dev 0
2
1
0
−1
−2

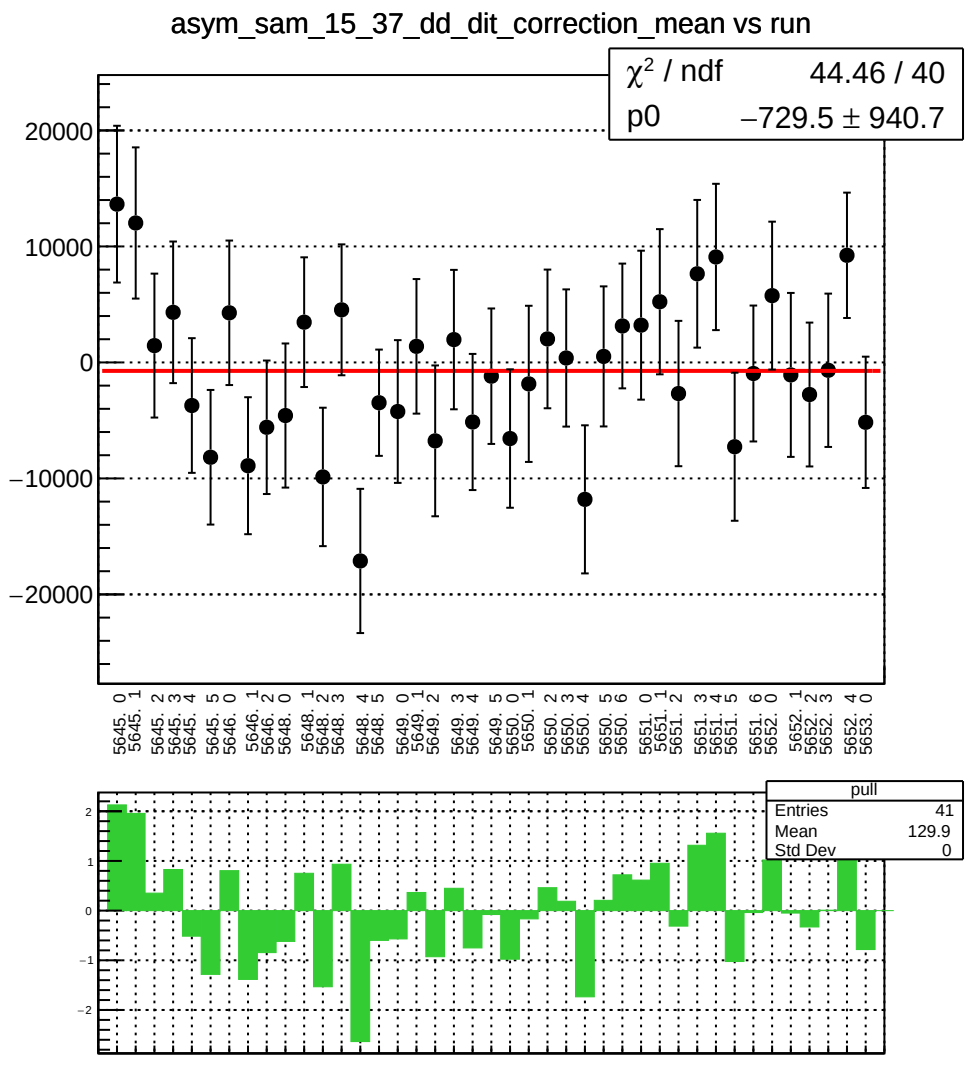

pull1D
Entries 41
Mean −0.0007871
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

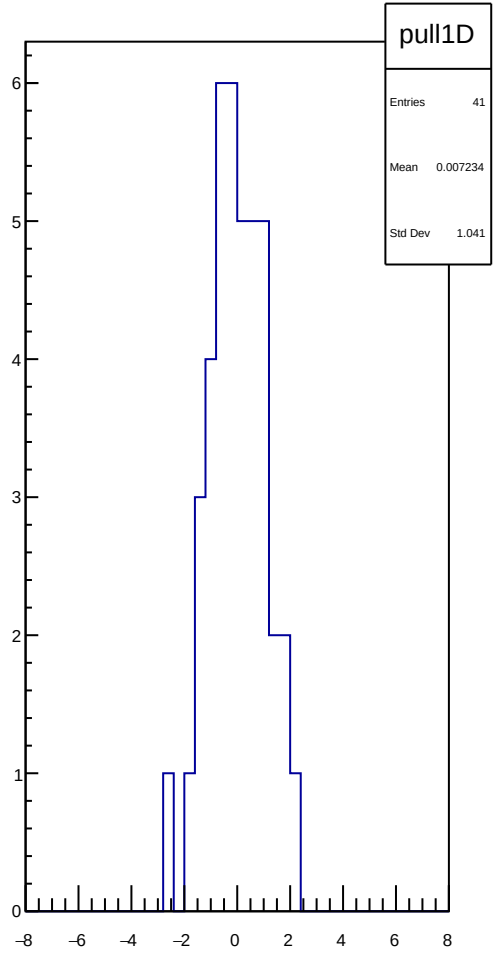

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 9804 / 40
p0 637 ± 0.721
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

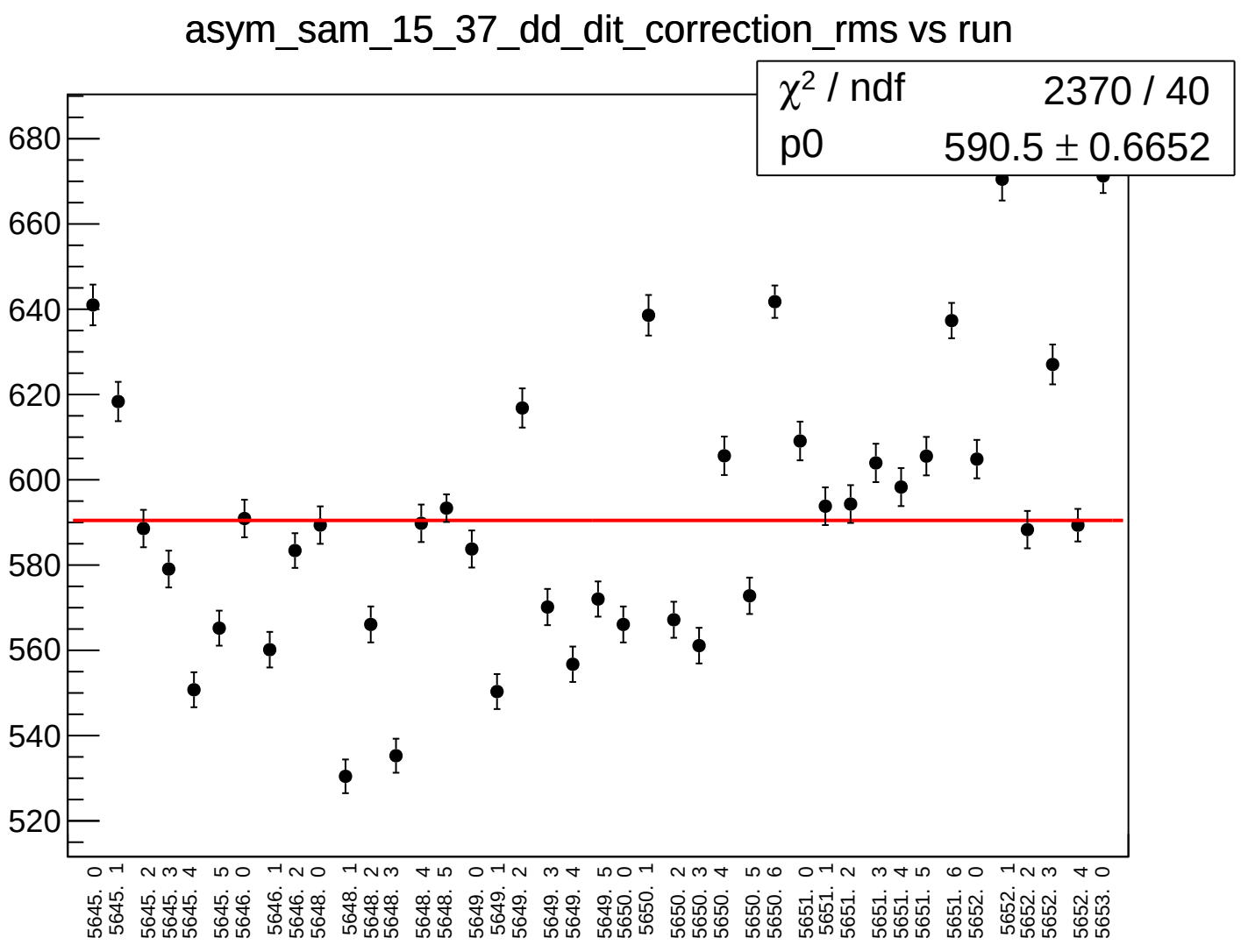

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.44 / 40
p0 168.3 ± 152.1
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −11.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

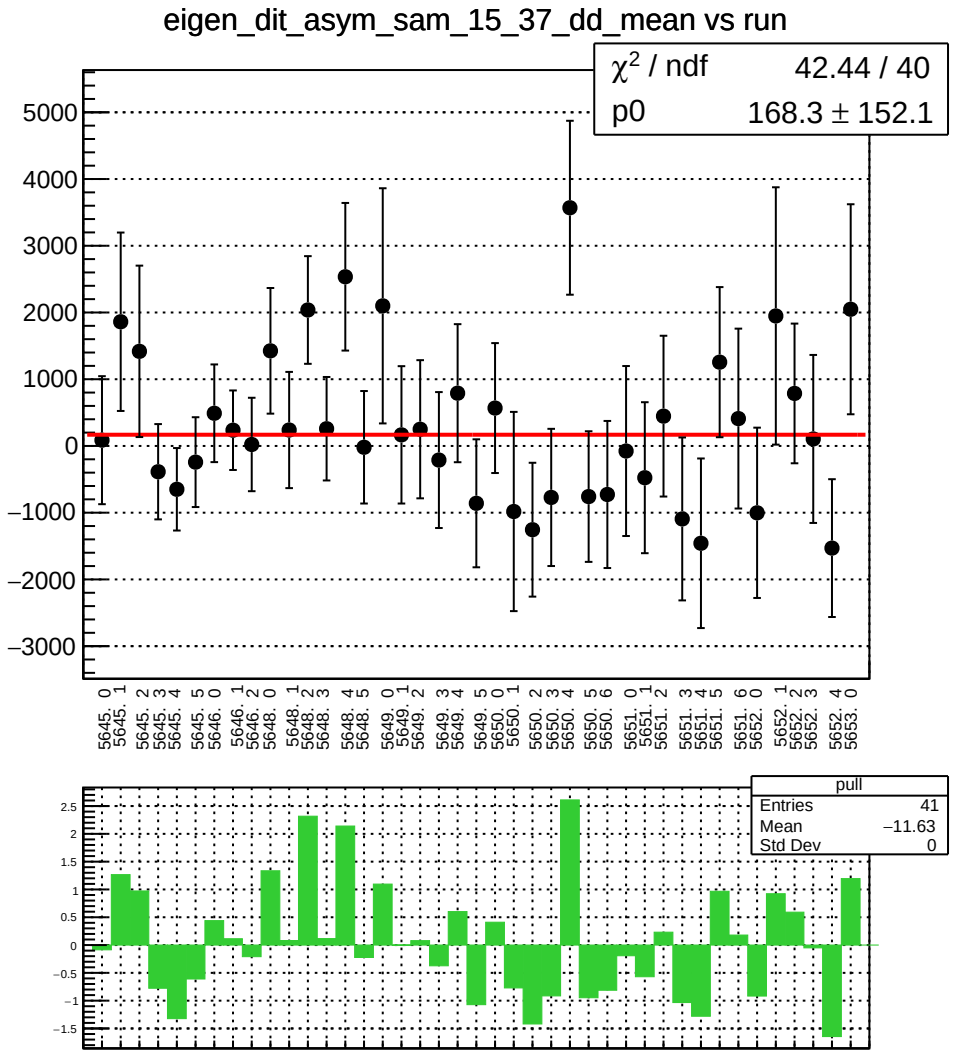

pull1D
Entries 41
Mean 0.05961
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

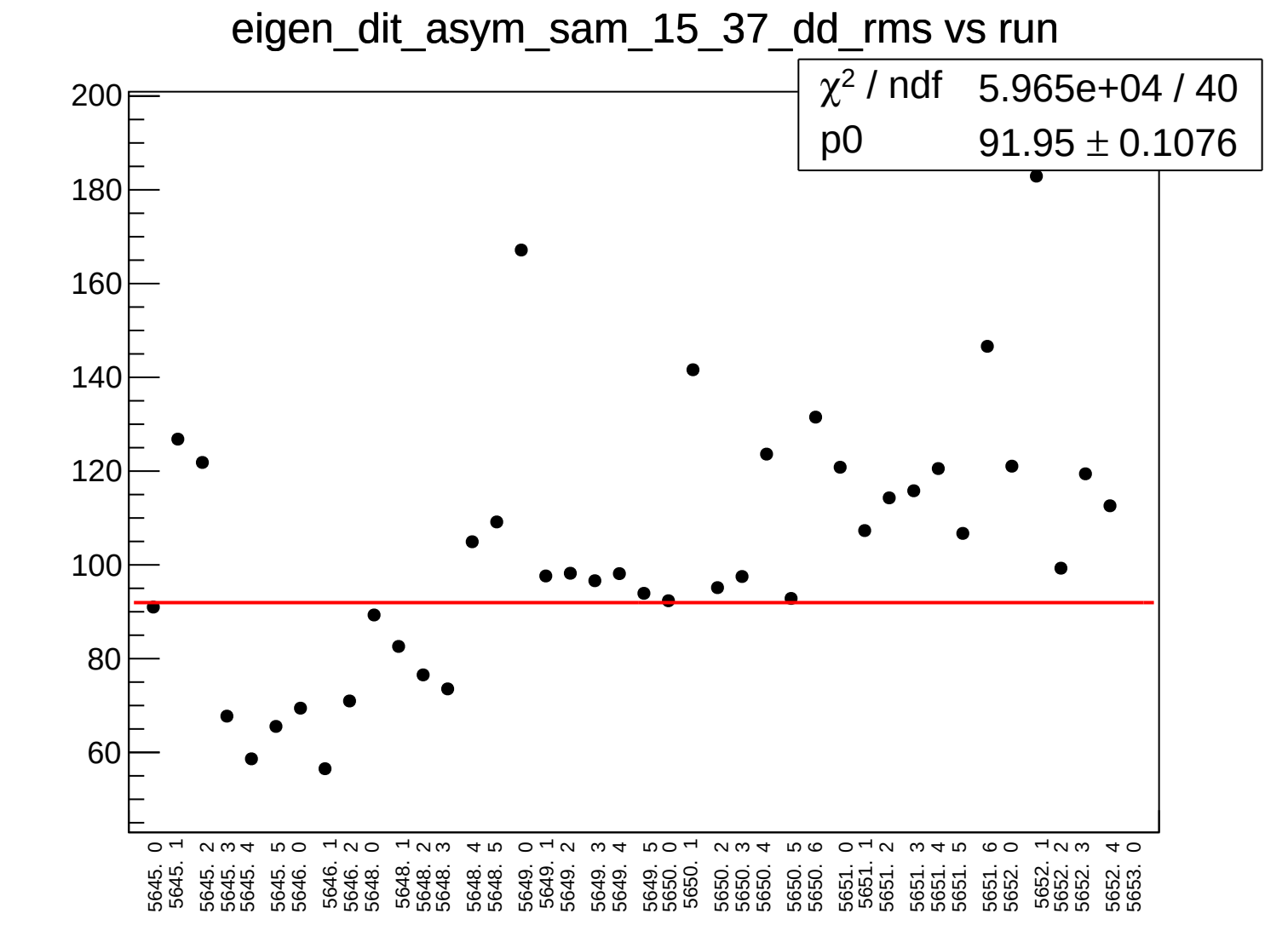

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 5.965e+04 / 40
p0 91.95 ± 0.1076
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

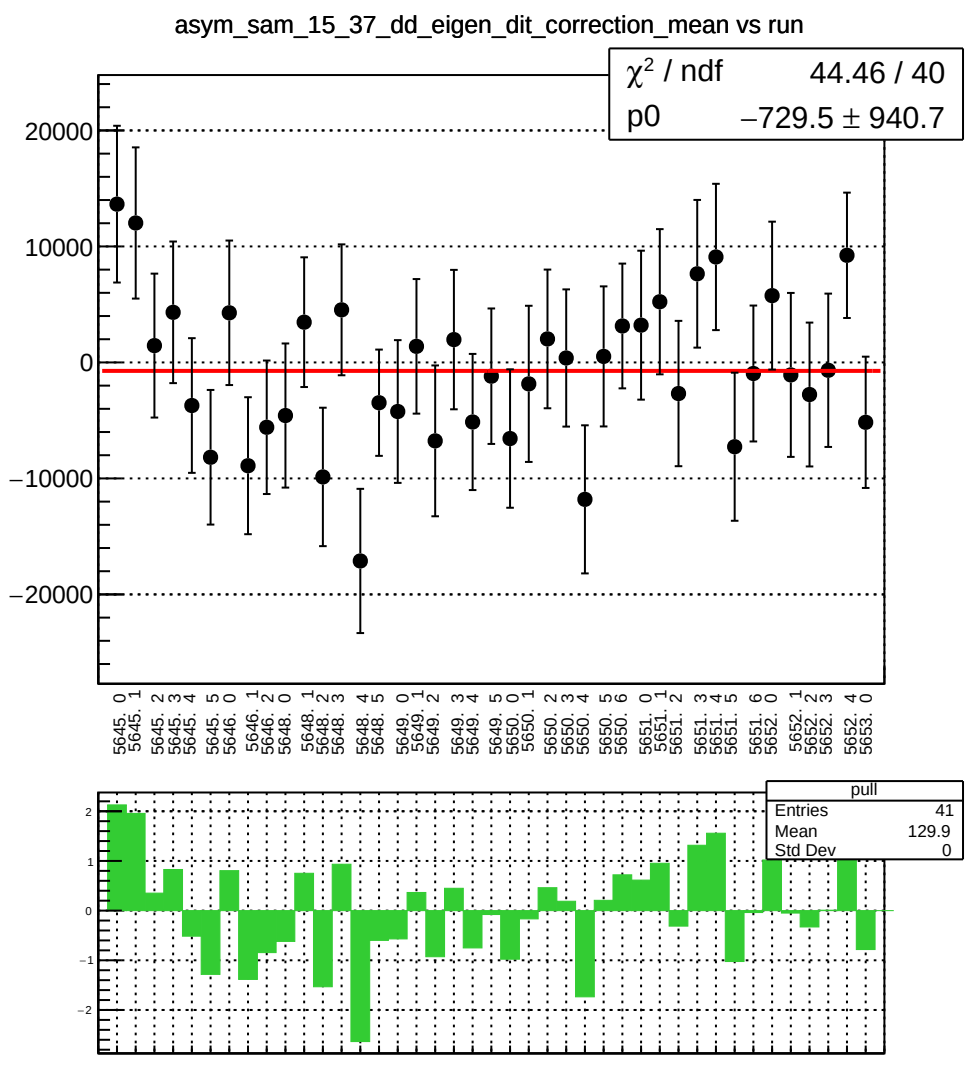

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 44.46 / 40
p0 −729.5 ± 940.7
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 129.9
Std Dev 0
2
1
0
−1
−2

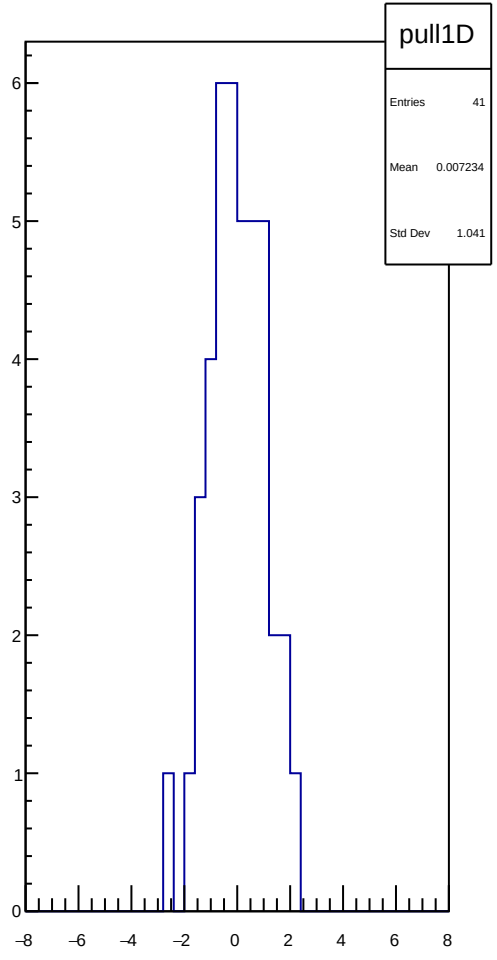

pull1D
Entries 41
Mean 0.007234
Std Dev 1.041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

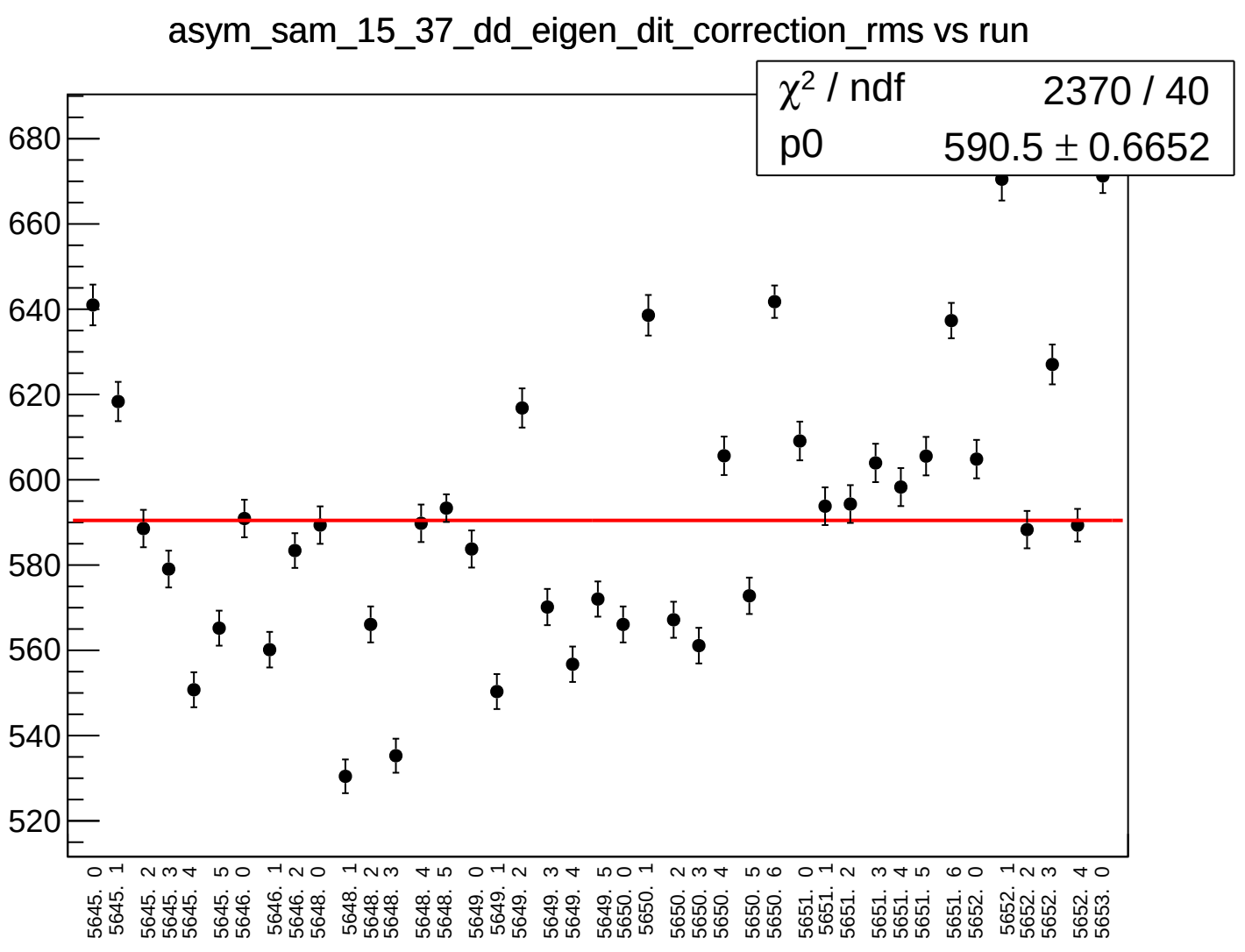

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2370 / 40
p0 590.5 ± 0.6652
680
660
640
620
600
580
560
540
520
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

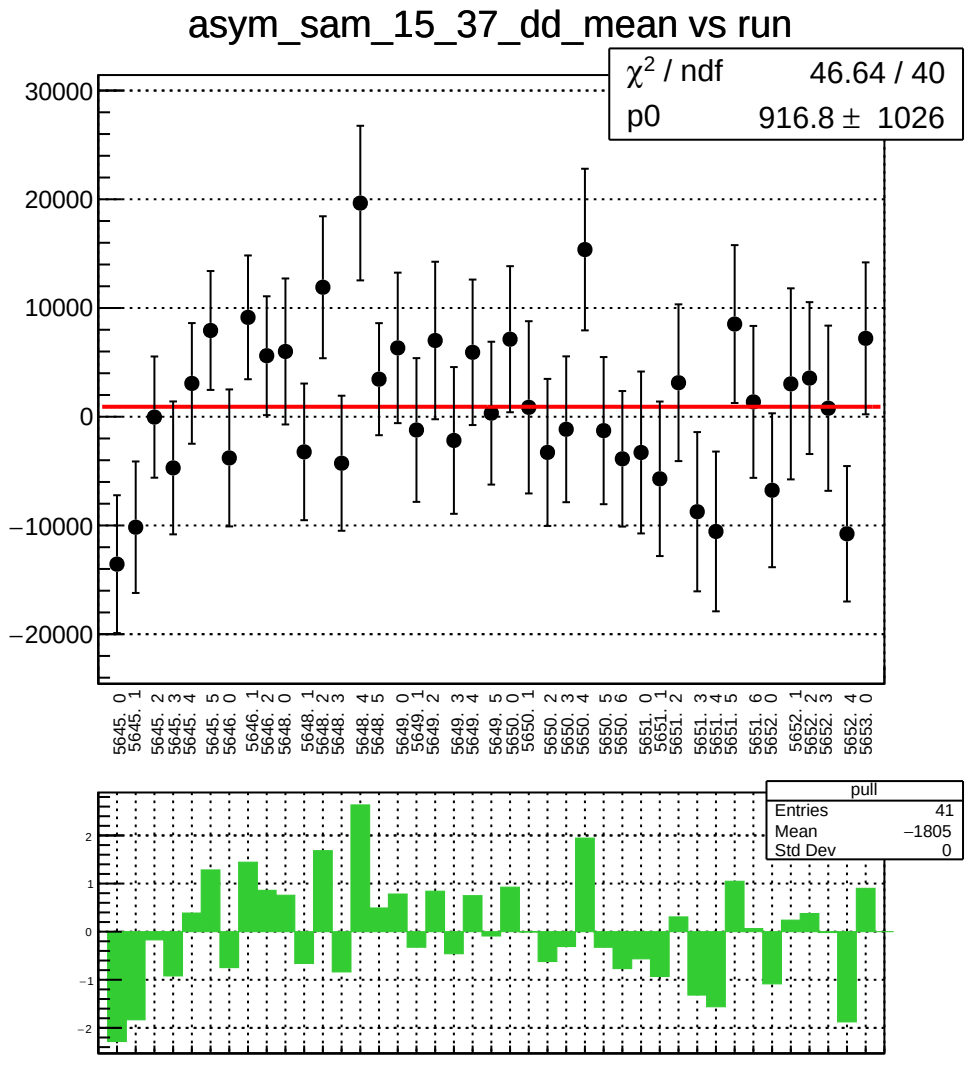

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.44 / 40
p0 168.3 ± 152.1
pull
Entries 41
Mean −11.63
Std Dev 0
pull1D
Entries 41
Mean 0.05961
Std Dev 1.016

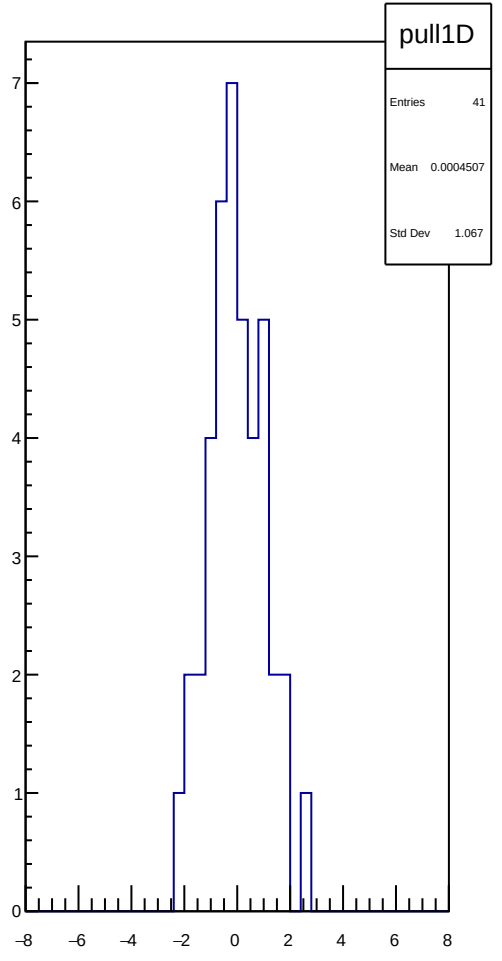

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 5.965e+04 / 40
p0 91.95 ± 0.1076
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

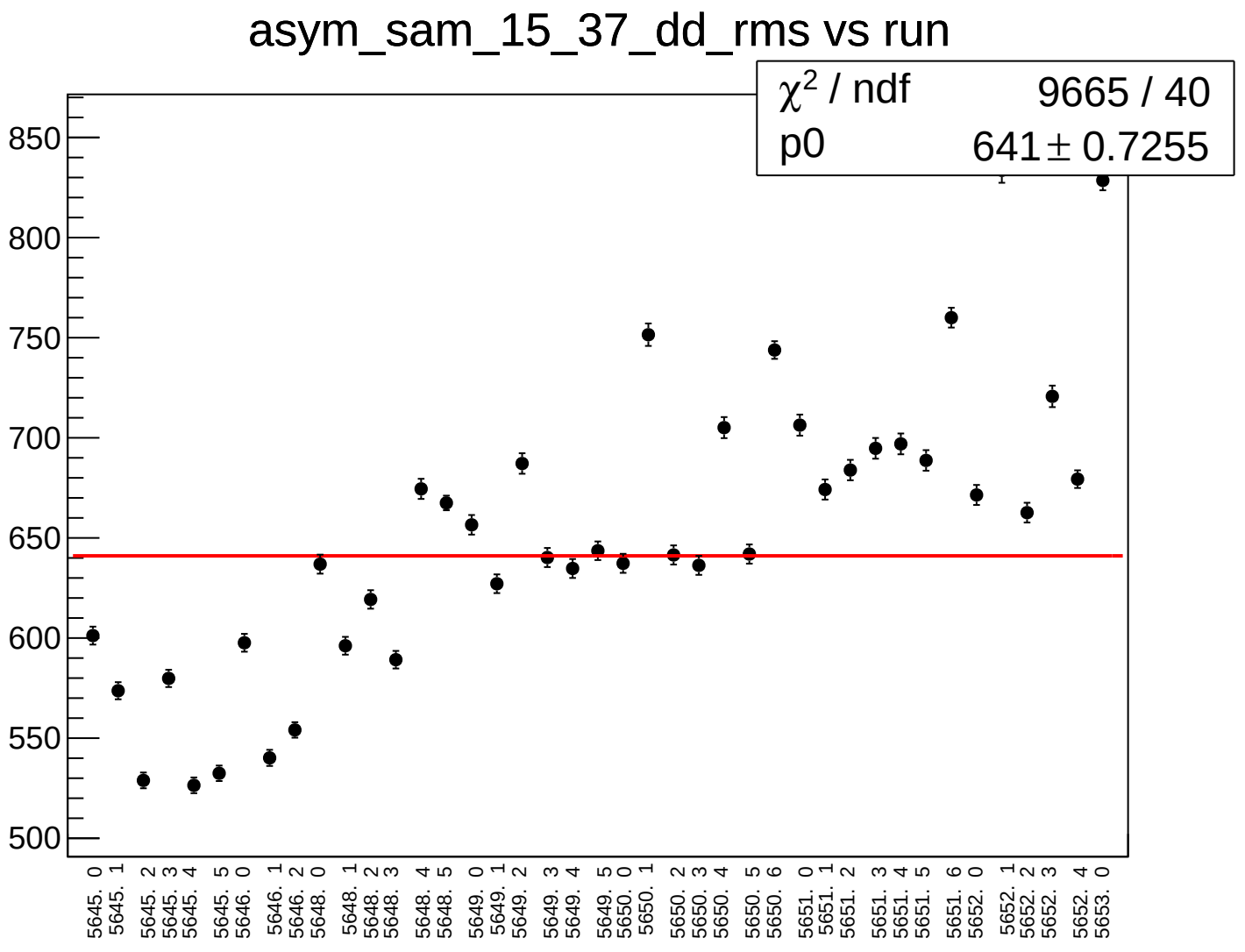

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 44.46 / 40
p0 −729.5 ± 940.7
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 129.9
Std Dev 0
2
1
0
−1
−2

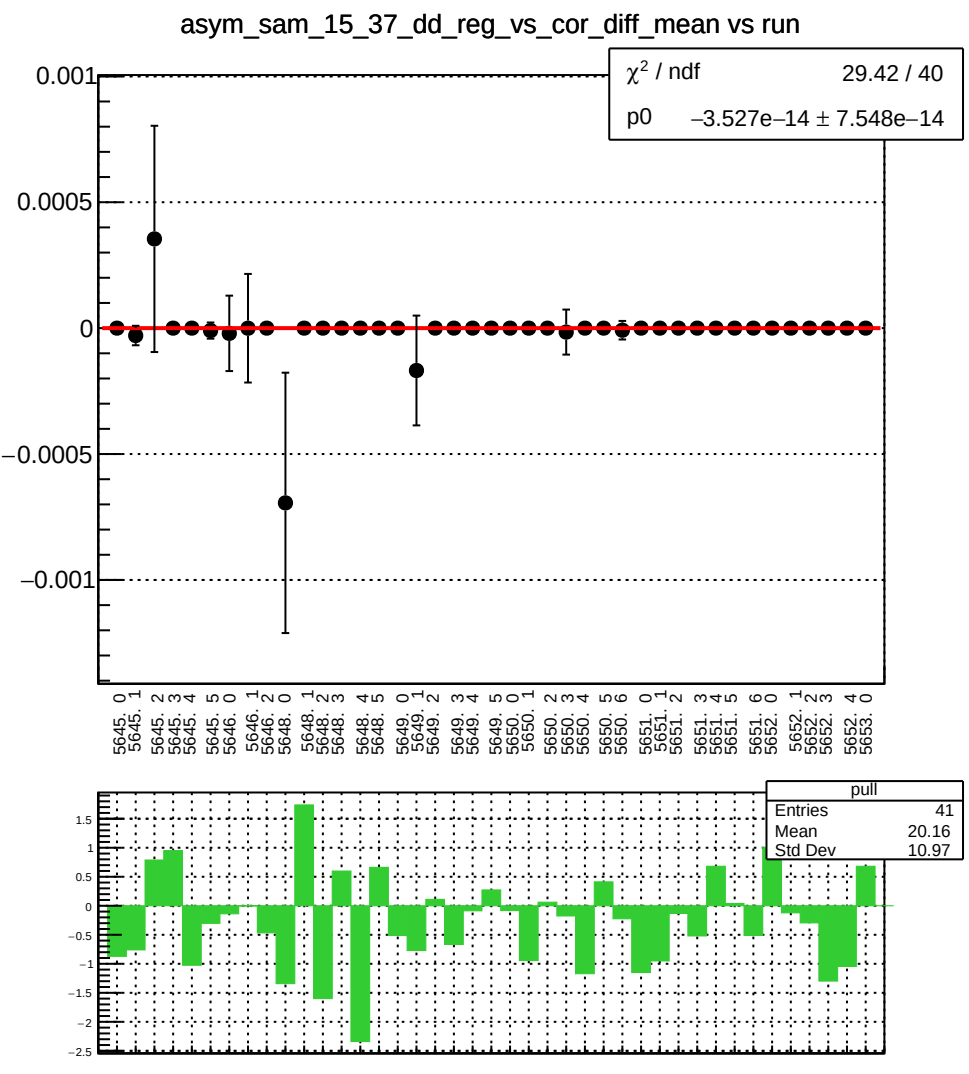

pull1D
Entries 41
Mean 0.007234
Std Dev 1.041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

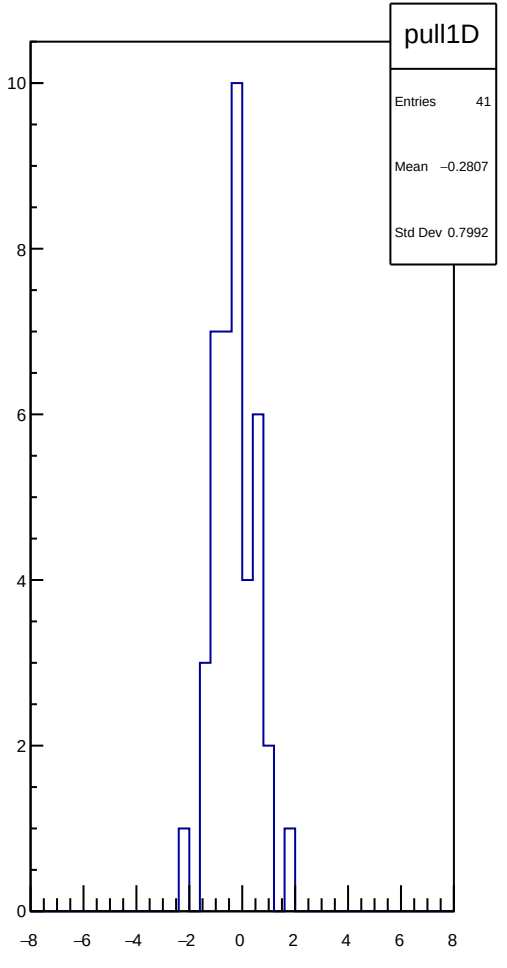

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2370 / 40
p0 590.5 ± 0.6652
680
660
640
620
600
580
560
540
520
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

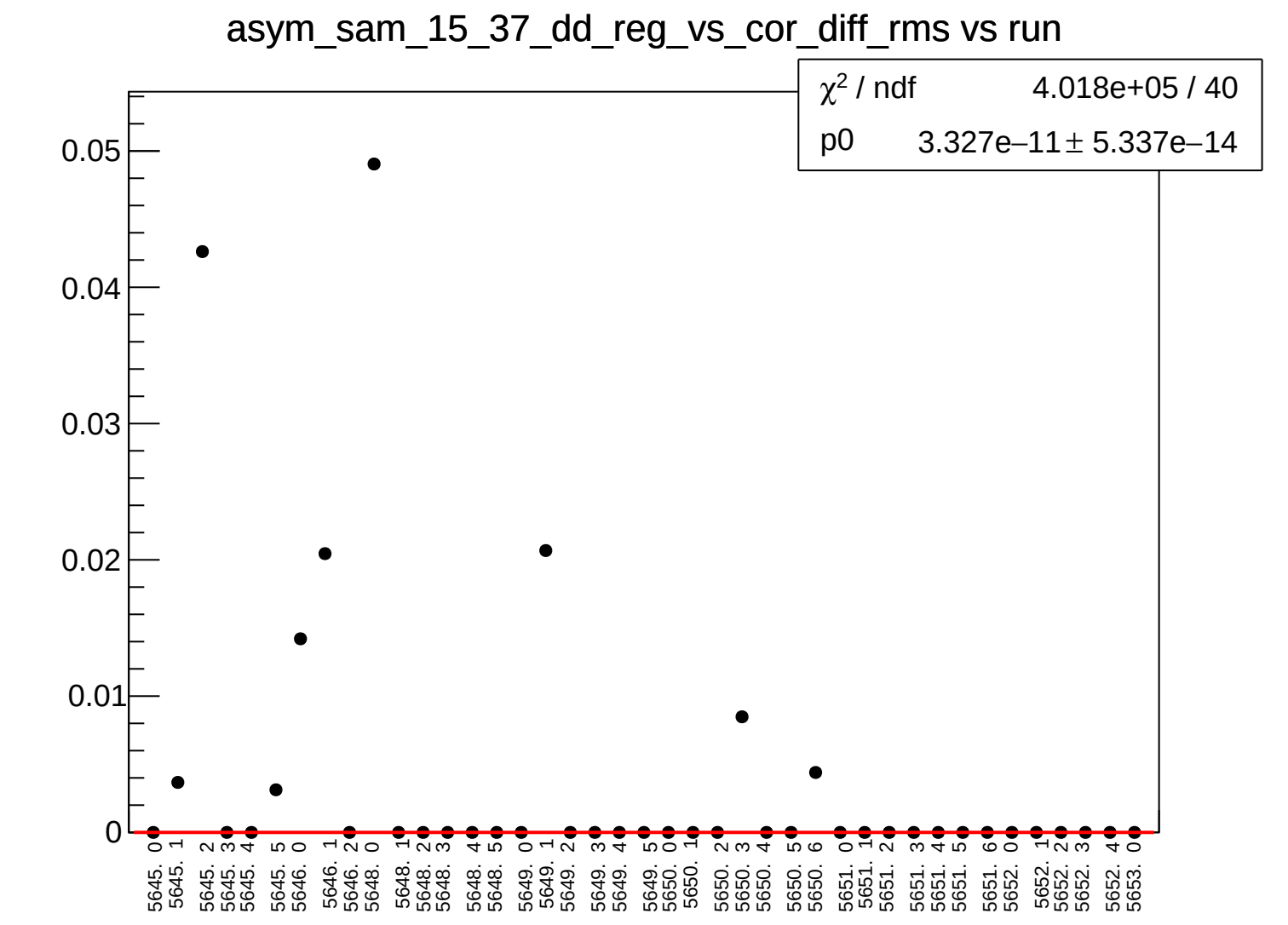

asym_sam_15_37_dd_mean vs run
χ² / ndf 46.64 / 40
p0 916.8 ± 1026
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1805
Std Dev 0
2
1
0
−1
−2

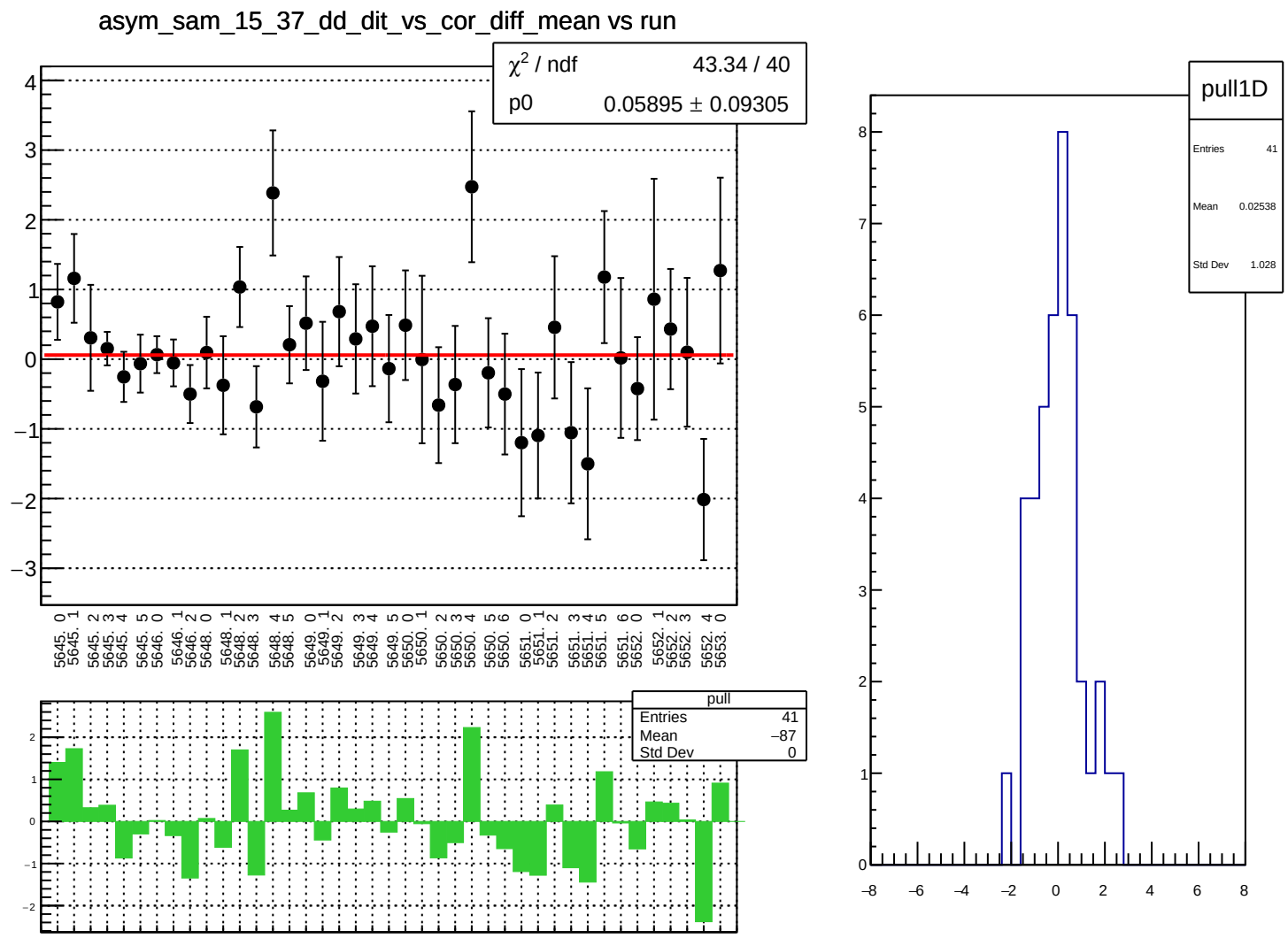

pull1D
Entries 41
Mean 0.0004507
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

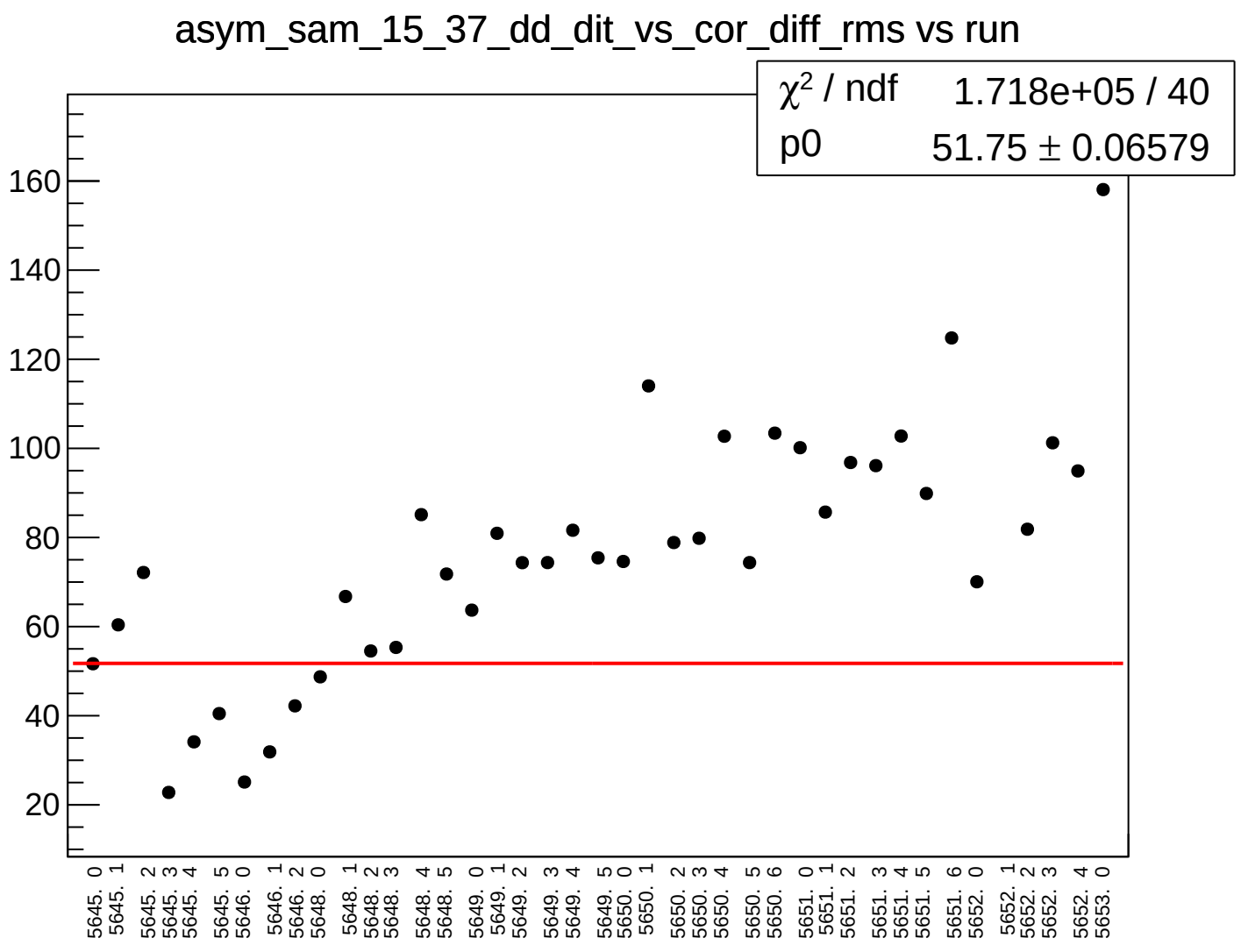

asym_sam_15_37_dd_rms vs run
χ² / ndf 9665 / 40
p0 641 ± 0.7255
850
800
750
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

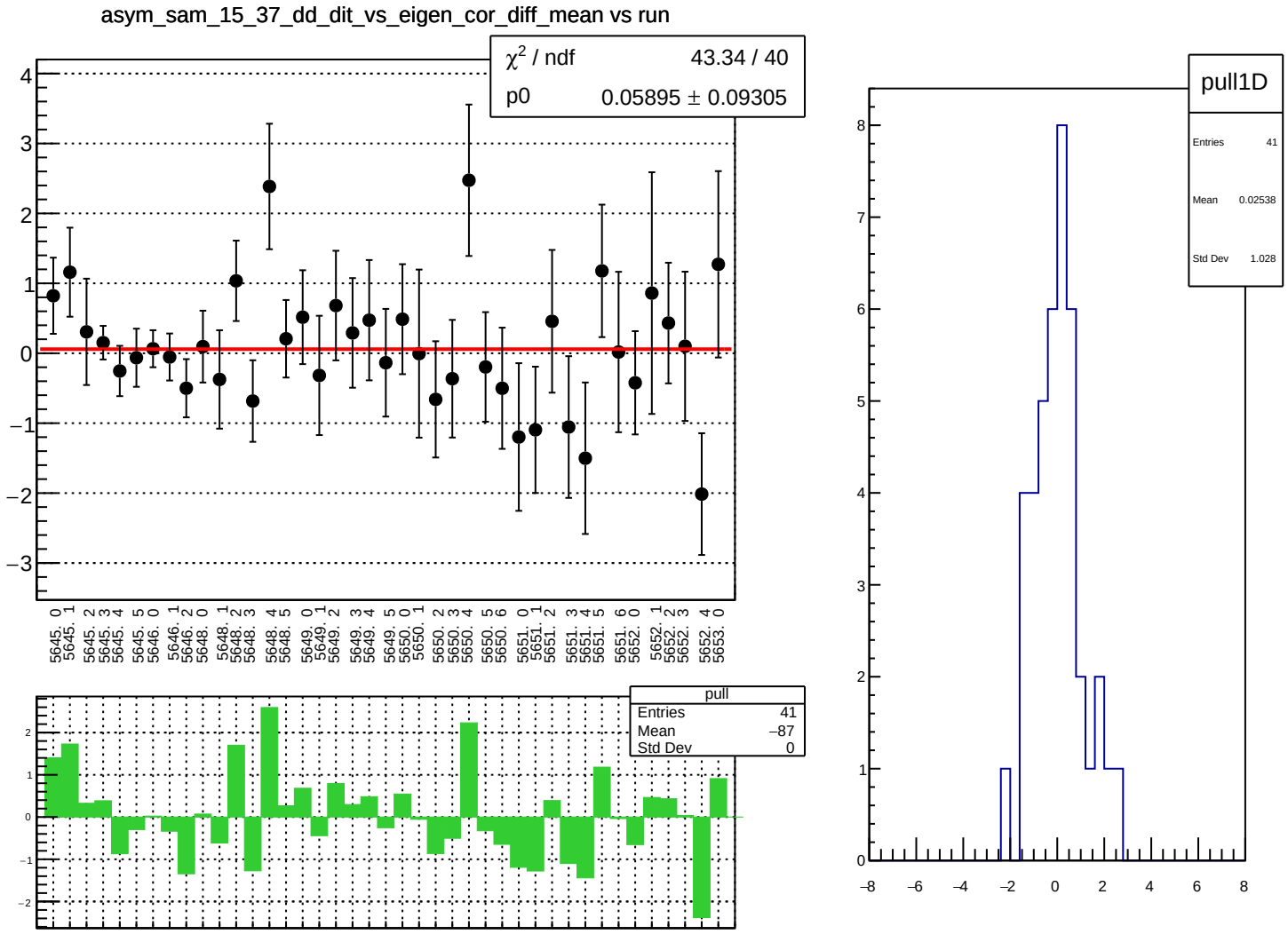

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 29.42 / 40
p0 −3.527e−14 ± 7.548e−14
0.001
0.0005
0
−0.0005
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.16
Std Dev 10.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

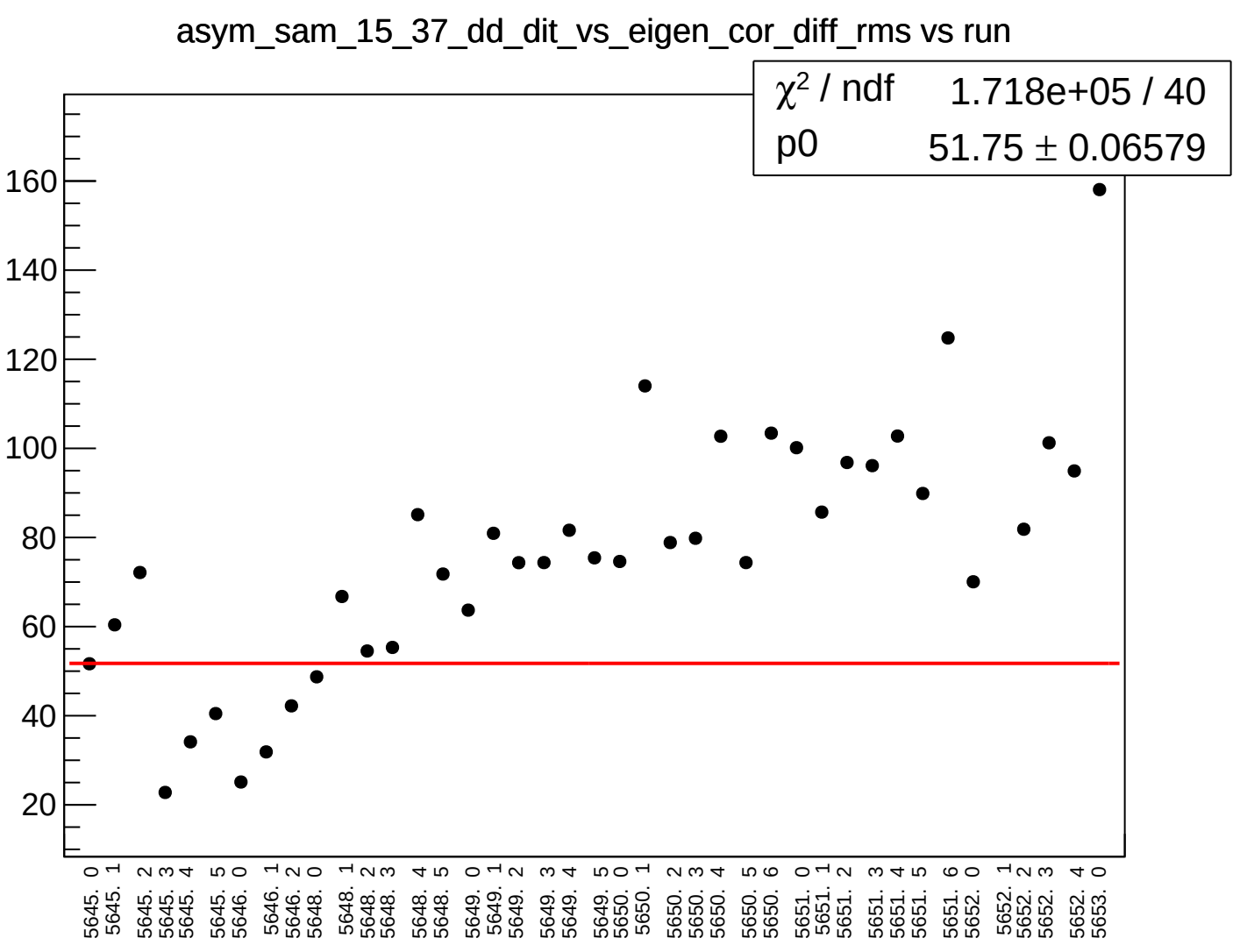

pull1D
Entries 41
Mean −0.2807
Std Dev 0.7992
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

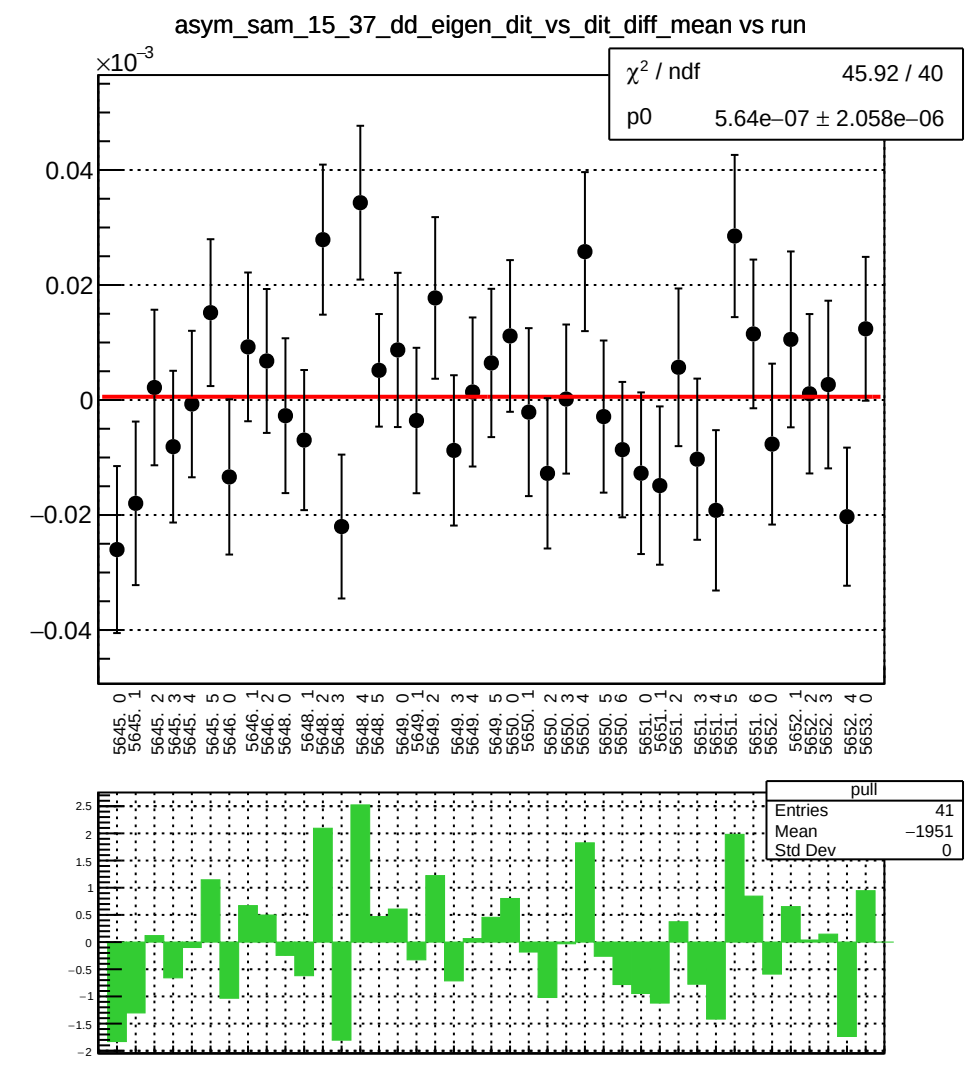

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.018e+05 / 40
p0 3.327e−11 ± 5.337e−14
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

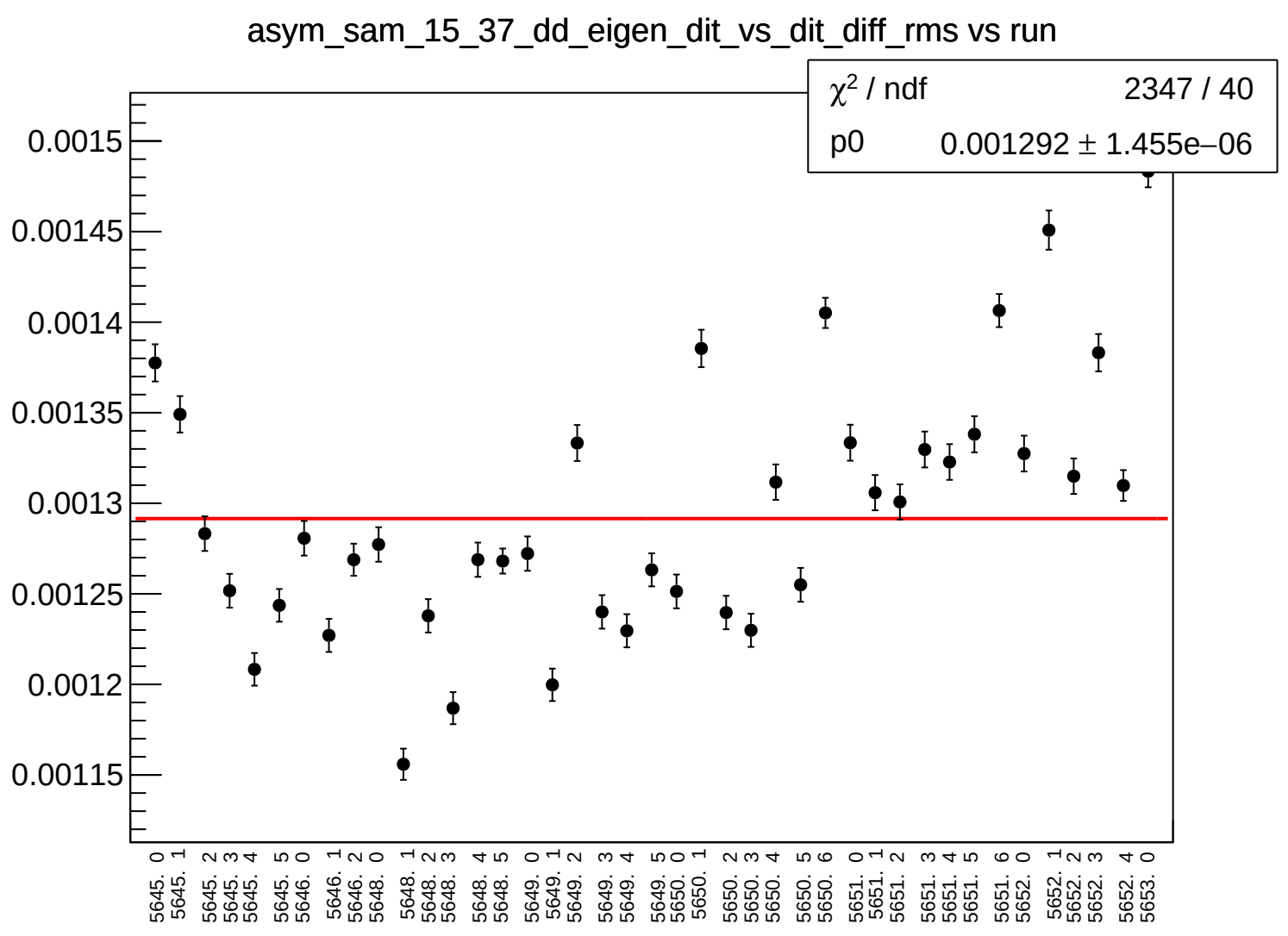

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 43.34 / 40
p0 0.05895 ± 0.09305
pull
Entries 41
Mean −87
Std Dev 0
pull1D
Entries 41
Mean 0.02538
Std Dev 1.028

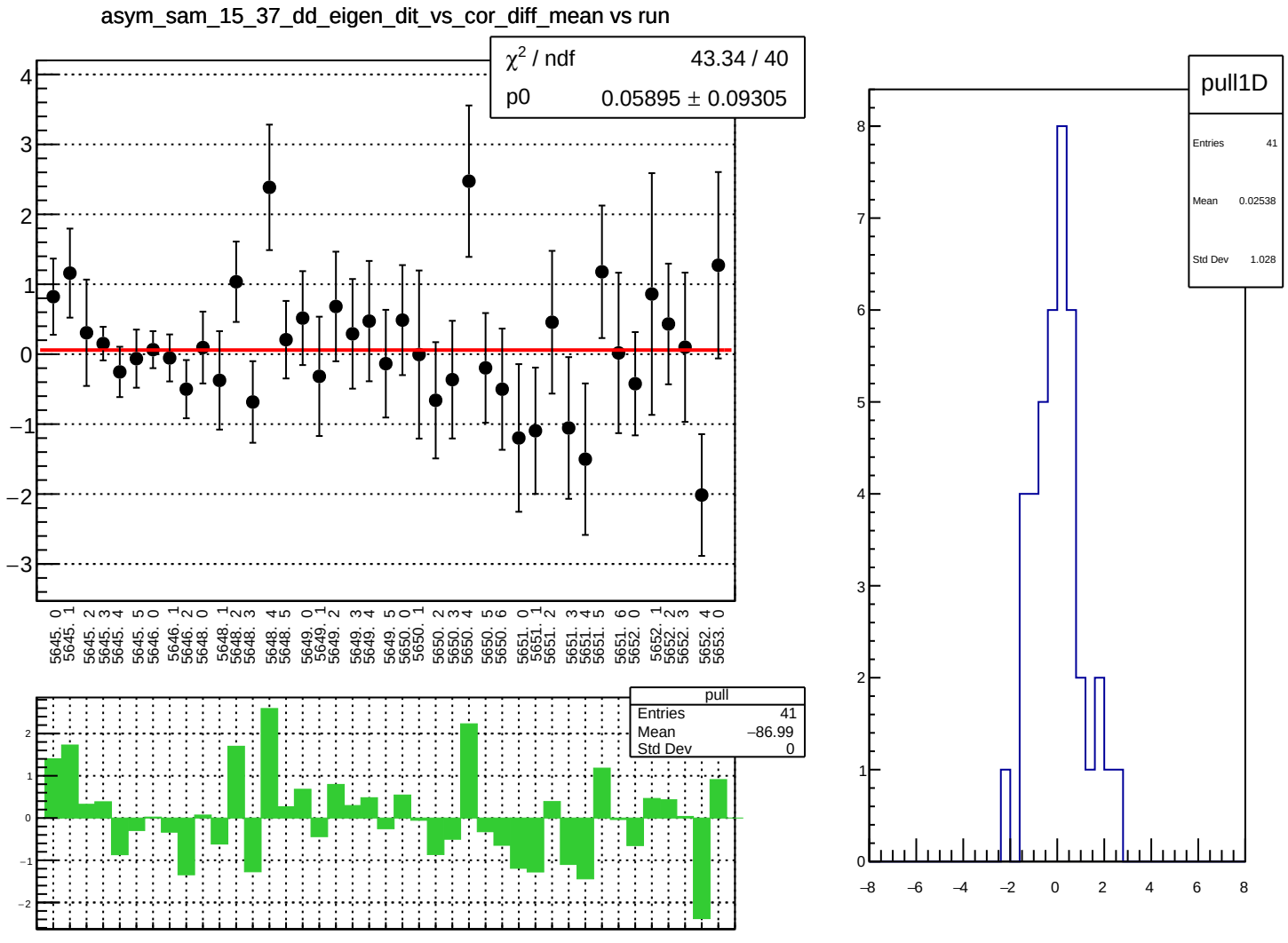

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.718e+05 / 40
p0 51.75 ± 0.06579
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

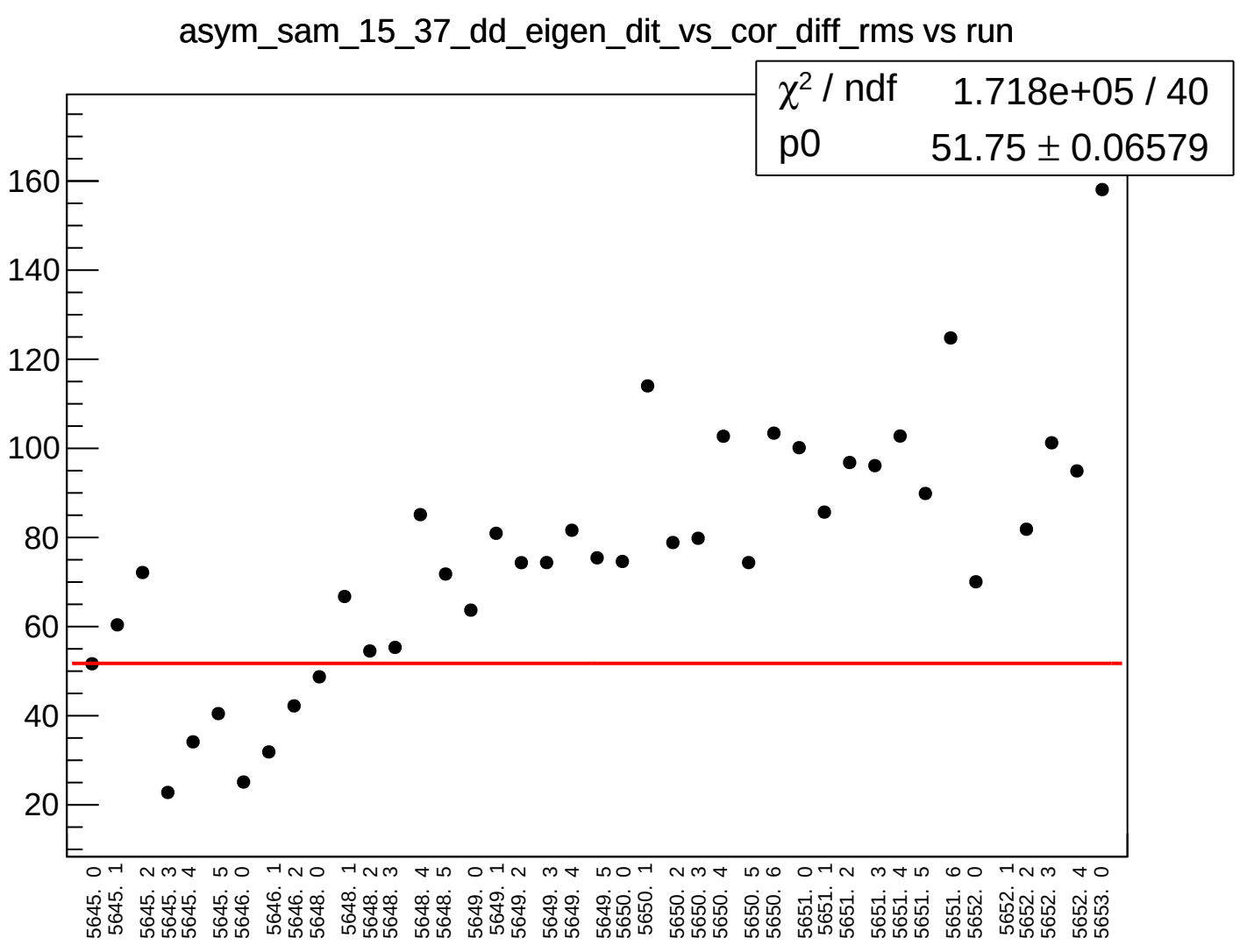

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.34 / 40
p0 0.05895 ± 0.09305
pull
Entries 41
Mean −87
Std Dev 0
pull1D
Entries 41
Mean 0.02538
Std Dev 1.028


asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.718e+05 / 40
p0 51.75 ± 0.06579
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

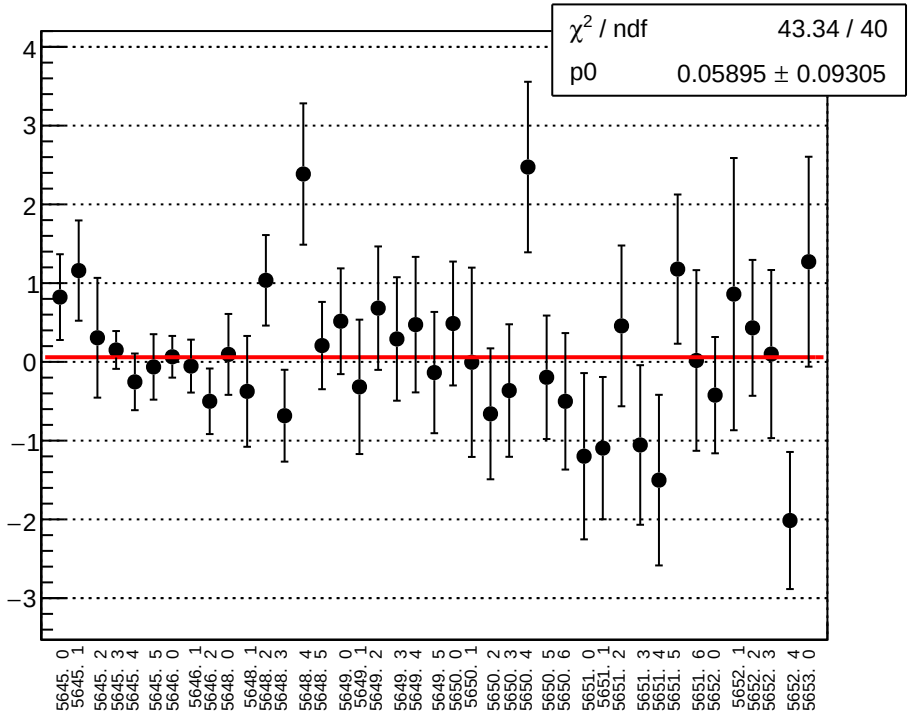

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.92 / 40
p0 5.64e−07 ± 2.058e−06
0.04
0.02
0
−0.02
−0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1951
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.0002822
Std Dev 1.058
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

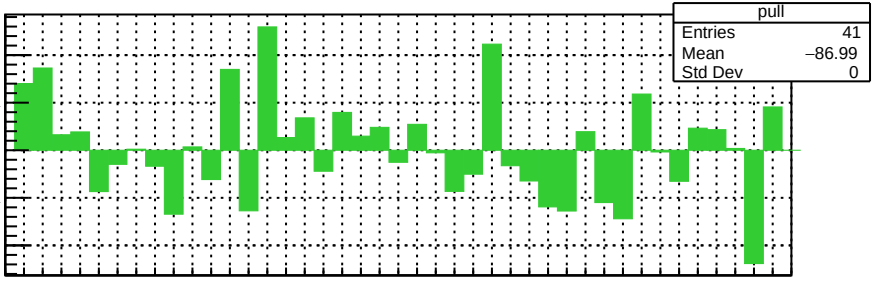

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2347 / 40
p0 0.001292 ± 1.455e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

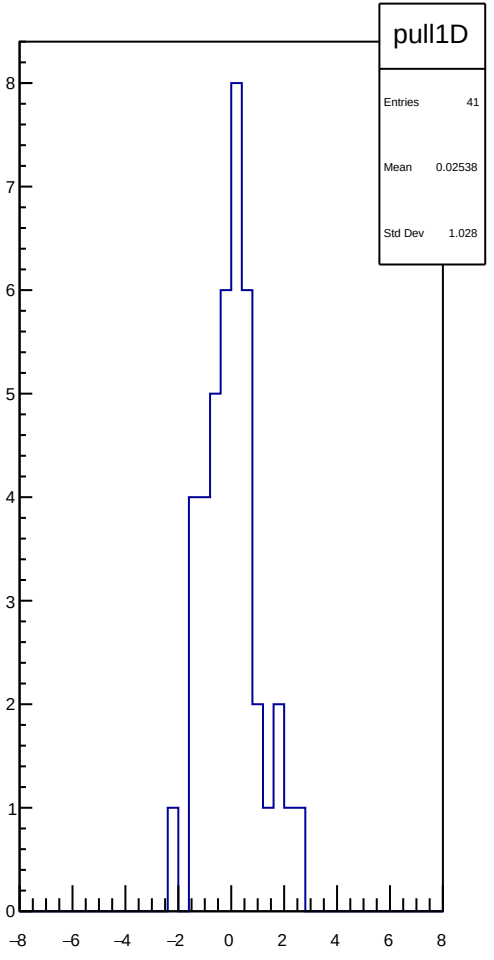

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.34 / 40
p0 0.05895 ± 0.09305
pull
Entries 41
Mean −86.99
Std Dev 0
pull1D
Entries 41
Mean 0.02538
Std Dev 1.028

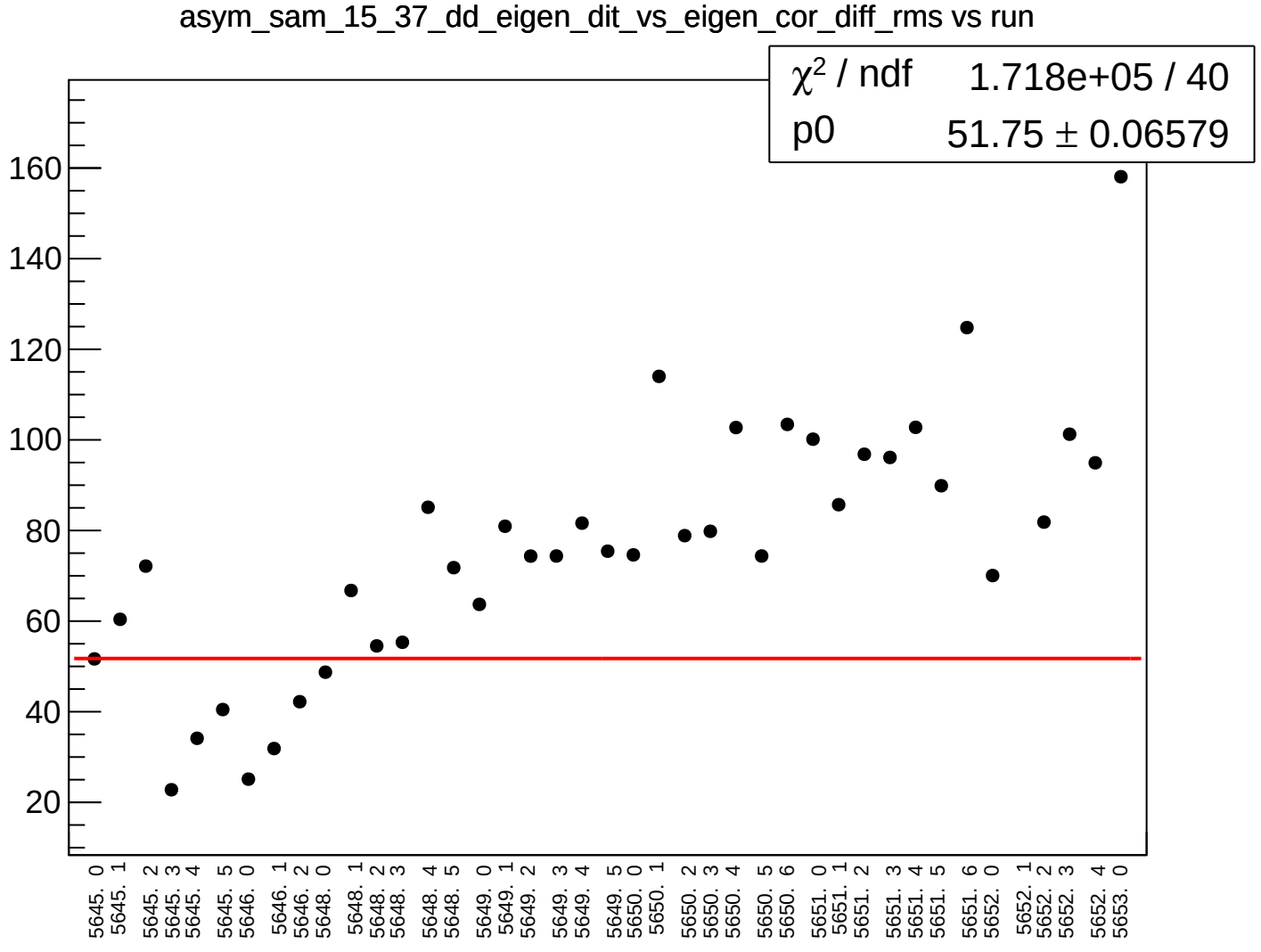

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.718e+05 / 40
p0 51.75 ± 0.06579
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

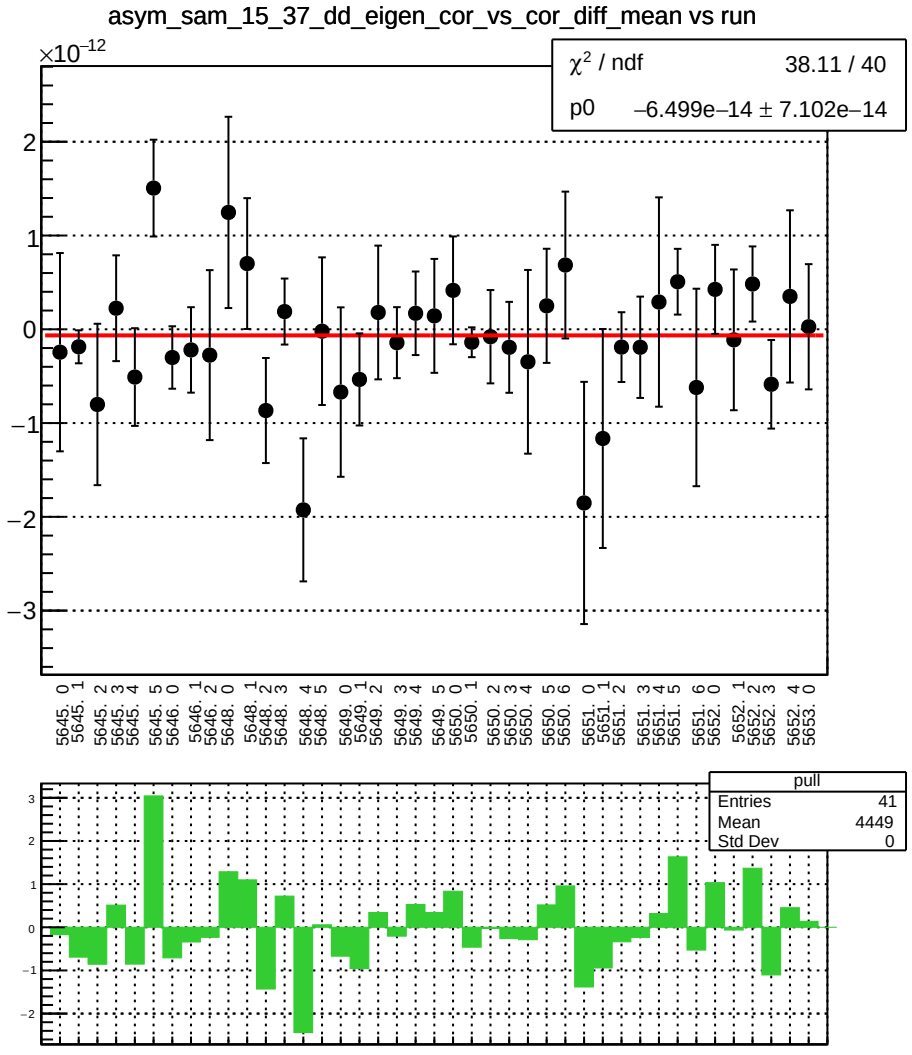
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

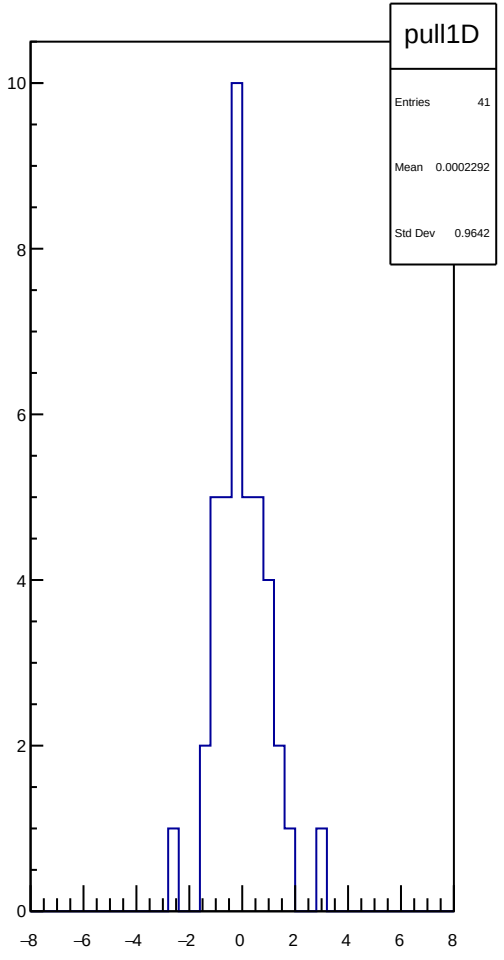


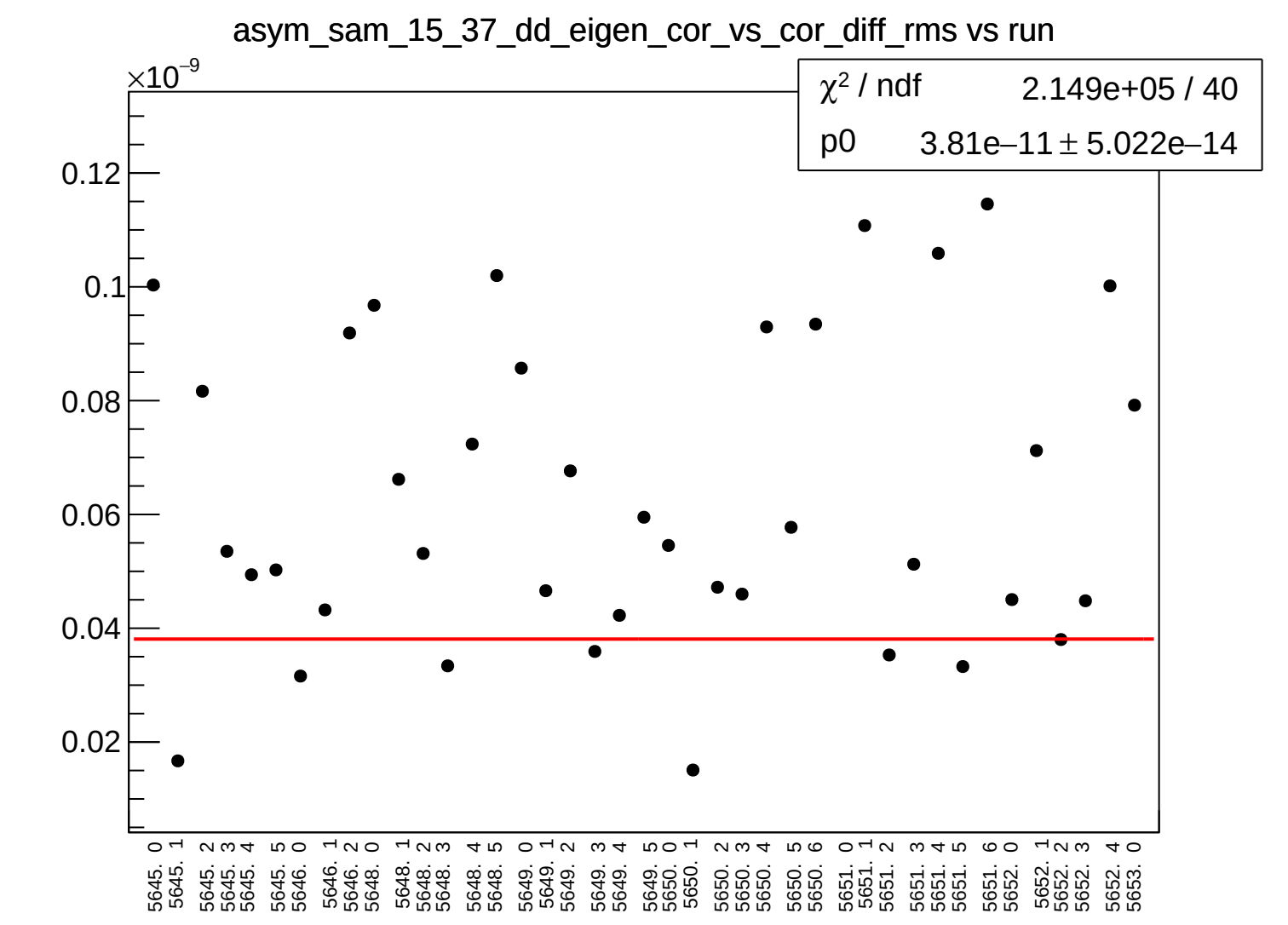


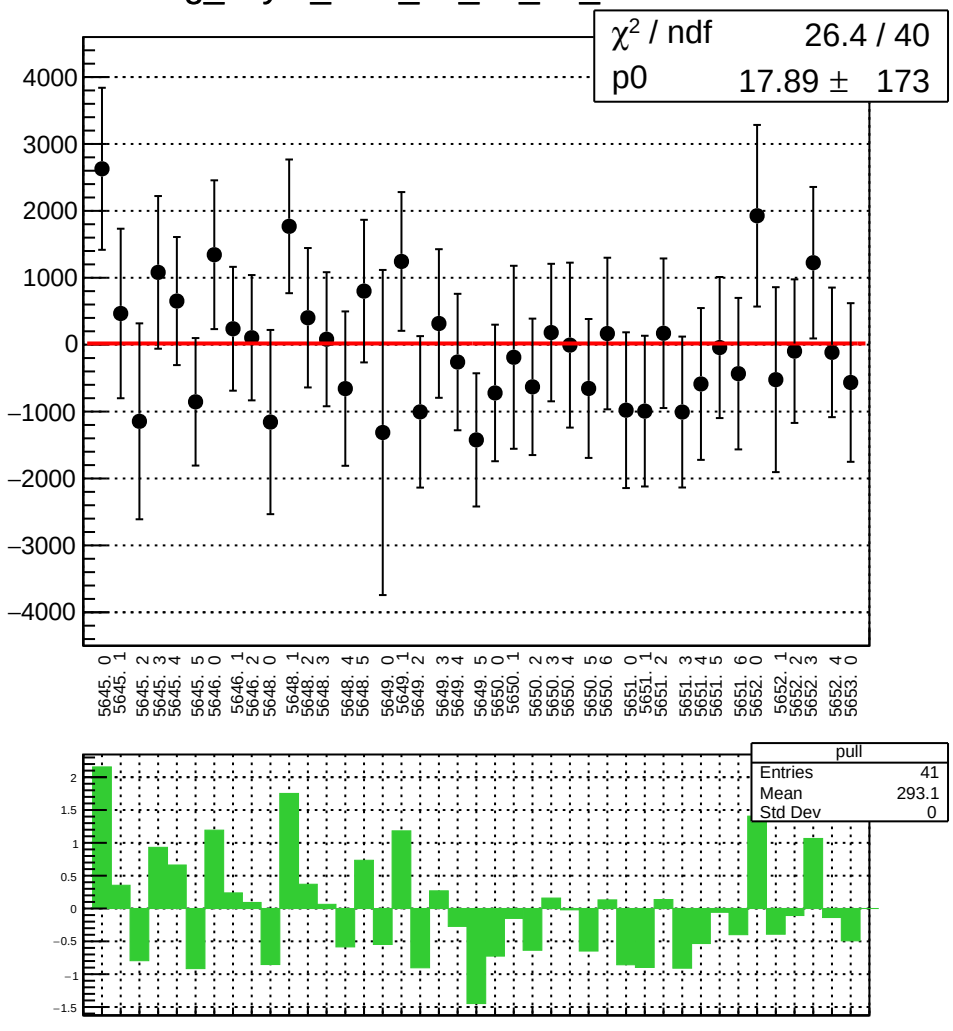


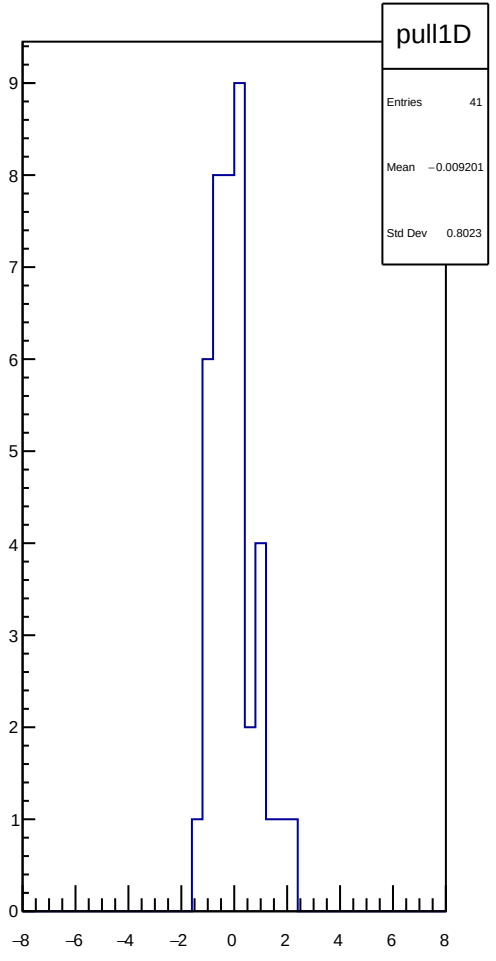

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.718e+05 / 40
p0 51.75 ± 0.06579
160
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

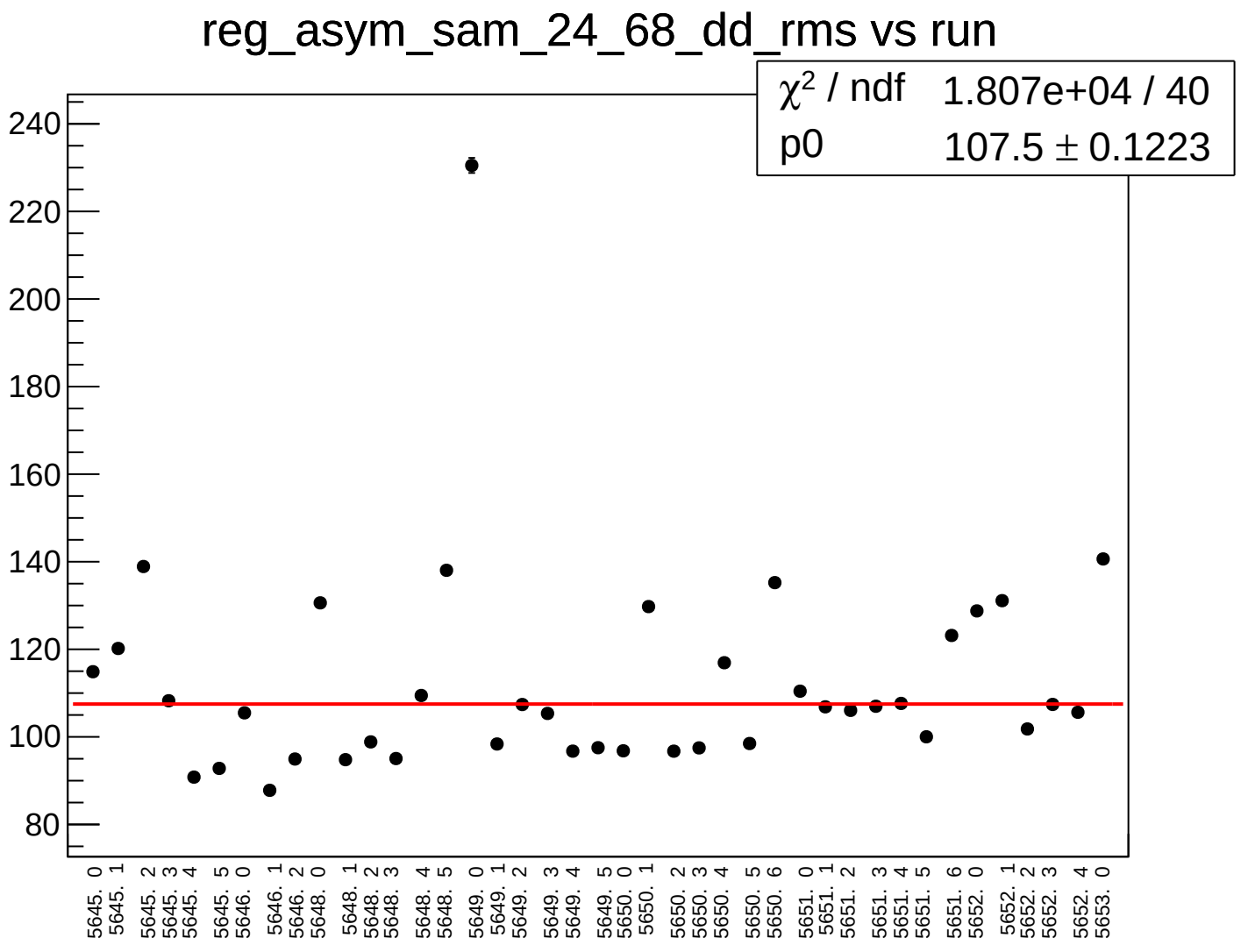

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.11 / 40
p0 −6.499e−14 ± 7.102e−14
pull
Entries 41
Mean 4449
Std Dev 0

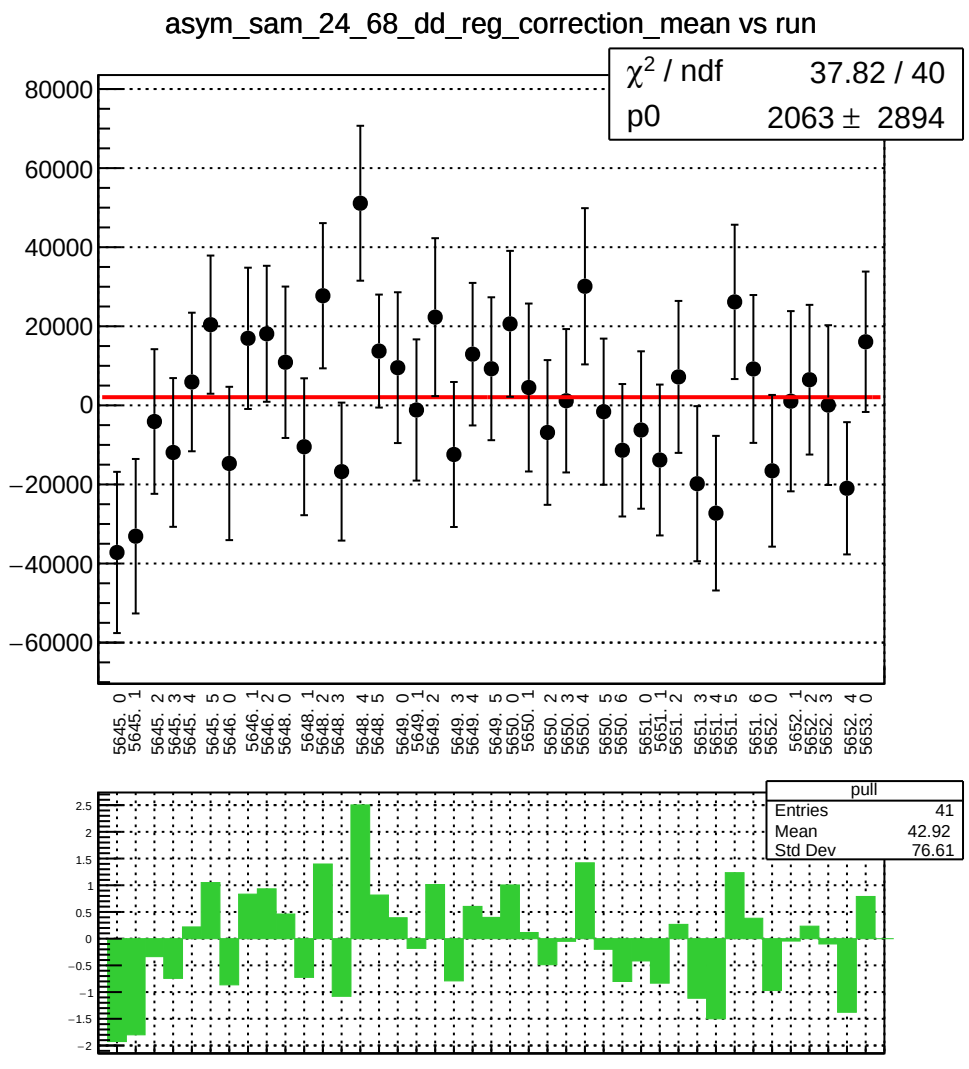

pull1D
Entries 41
Mean 0.0002292
Std Dev 0.9642

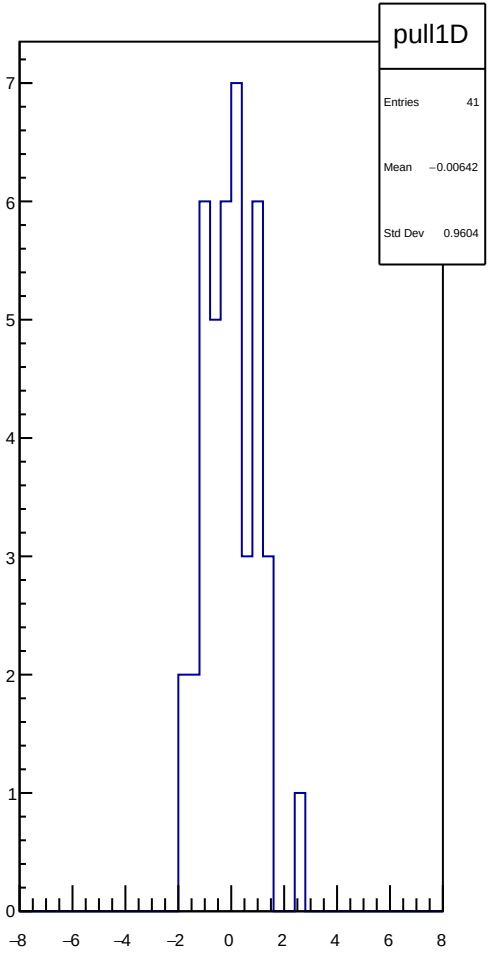

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.149e+05 / 40
p0 3.81e−11 ± 5.022e−14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

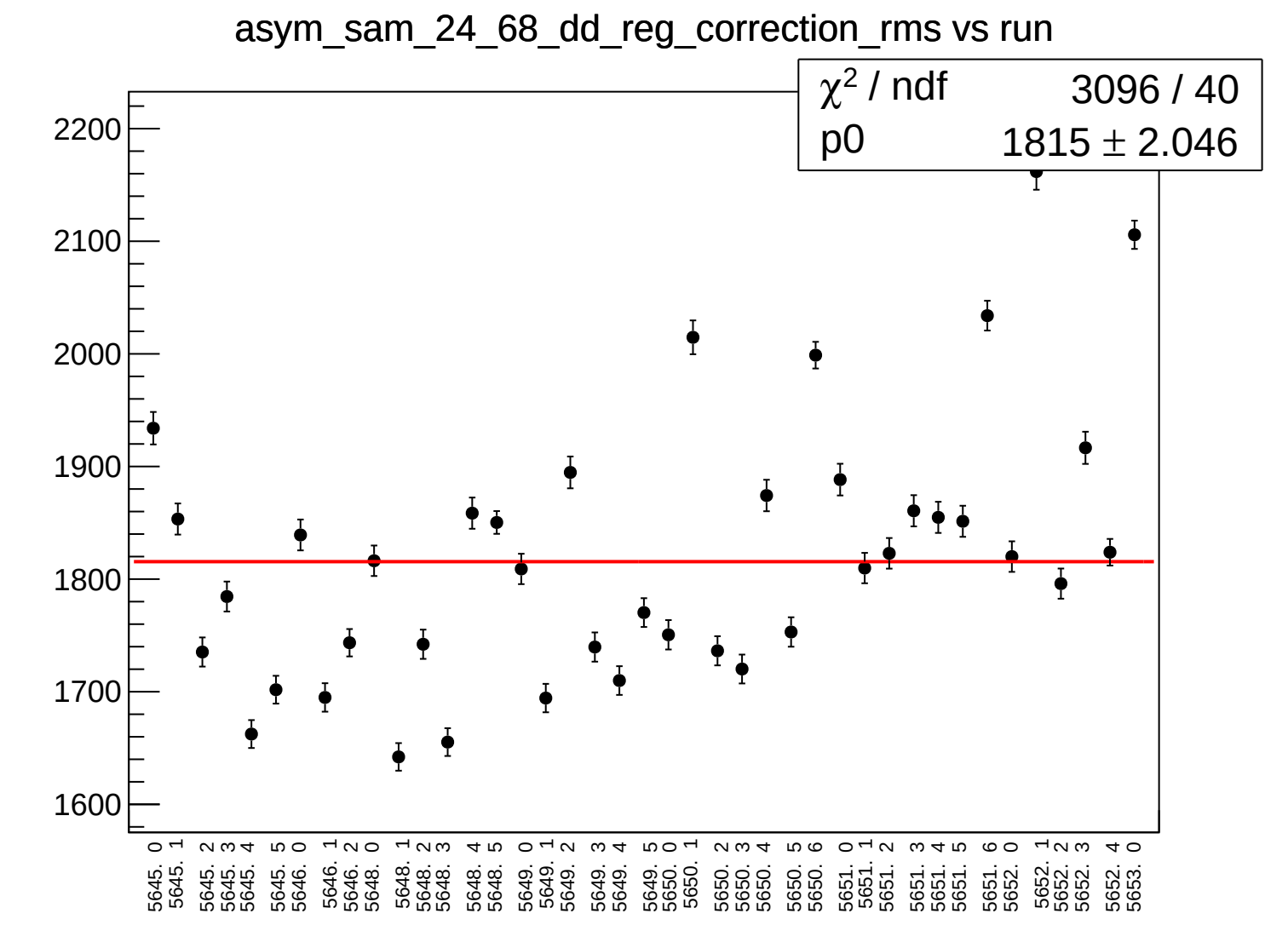

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 26.4 / 40
p0 17.89 ± 173
pull
Entries 41
Mean 293.1
Std Dev 0

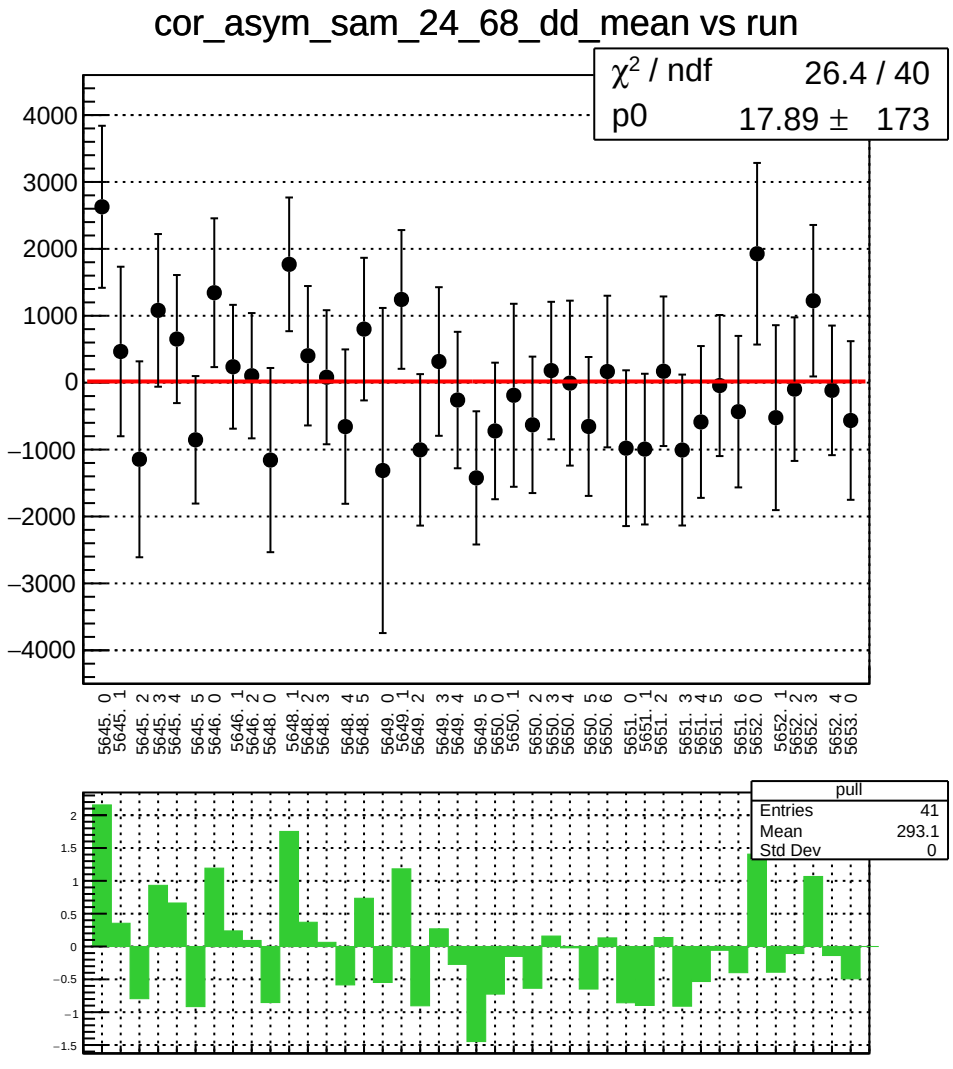

pull1D
Entries 41
Mean −0.009201
Std Dev 0.8023

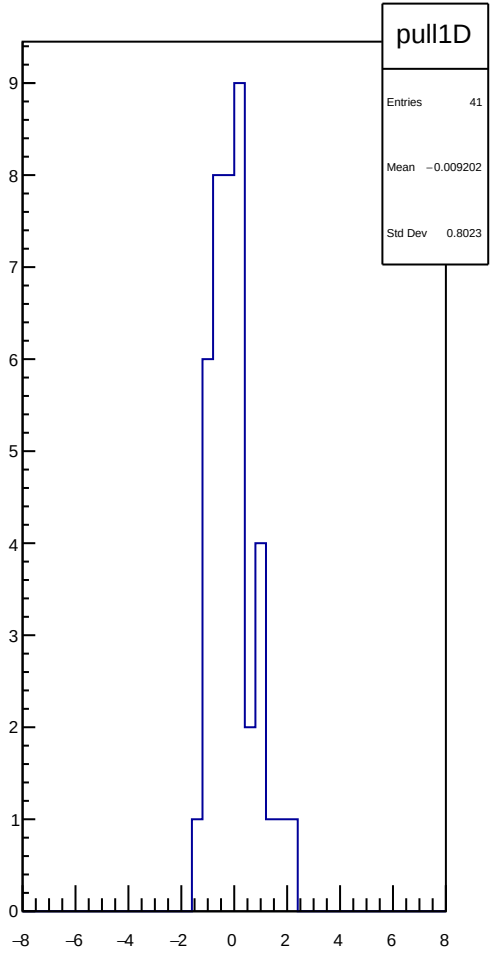

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.807e+04 / 40
p0 107.5 ± 0.1223
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

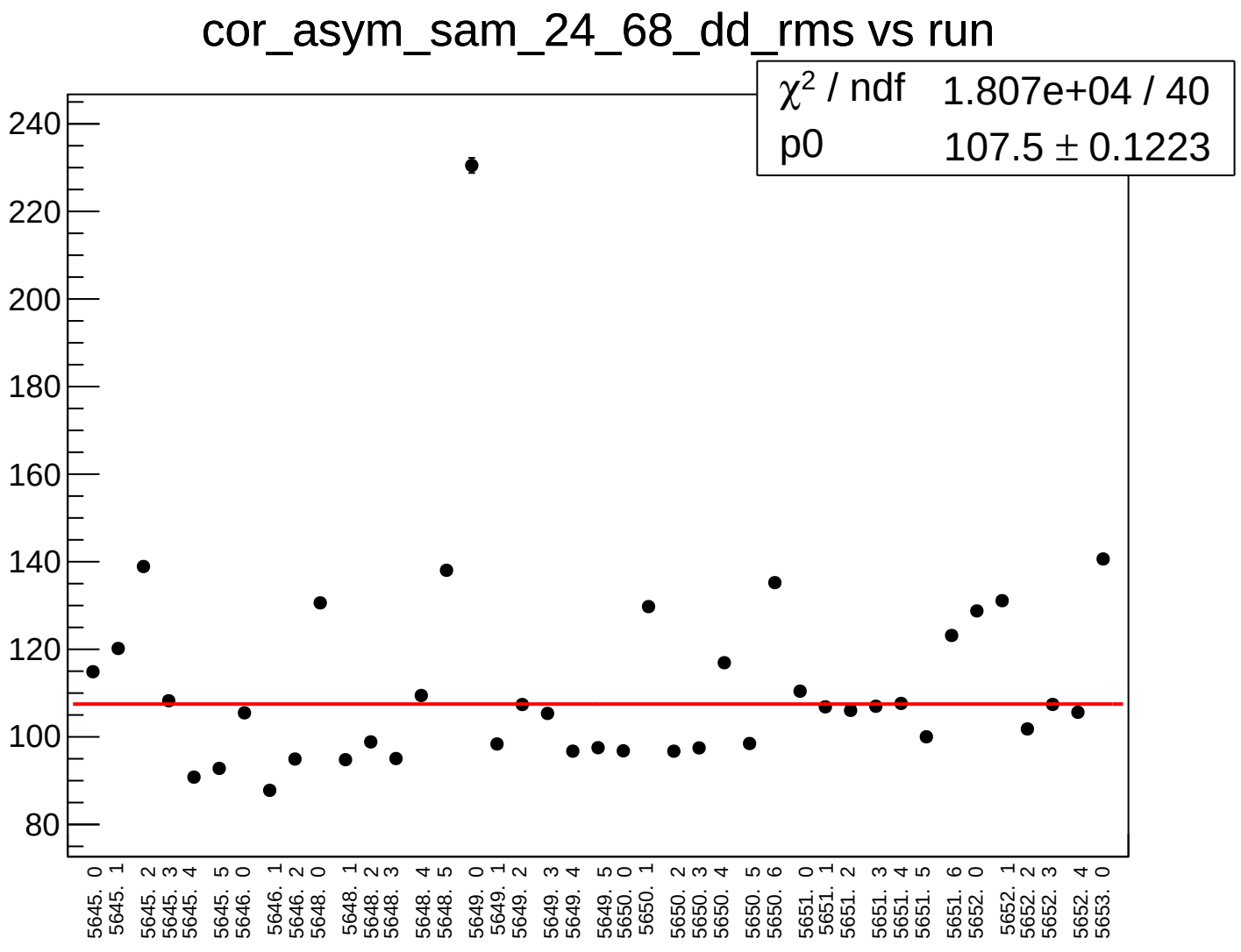

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 37.82 / 40
p0 2063 ± 2894
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.92
Std Dev 76.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

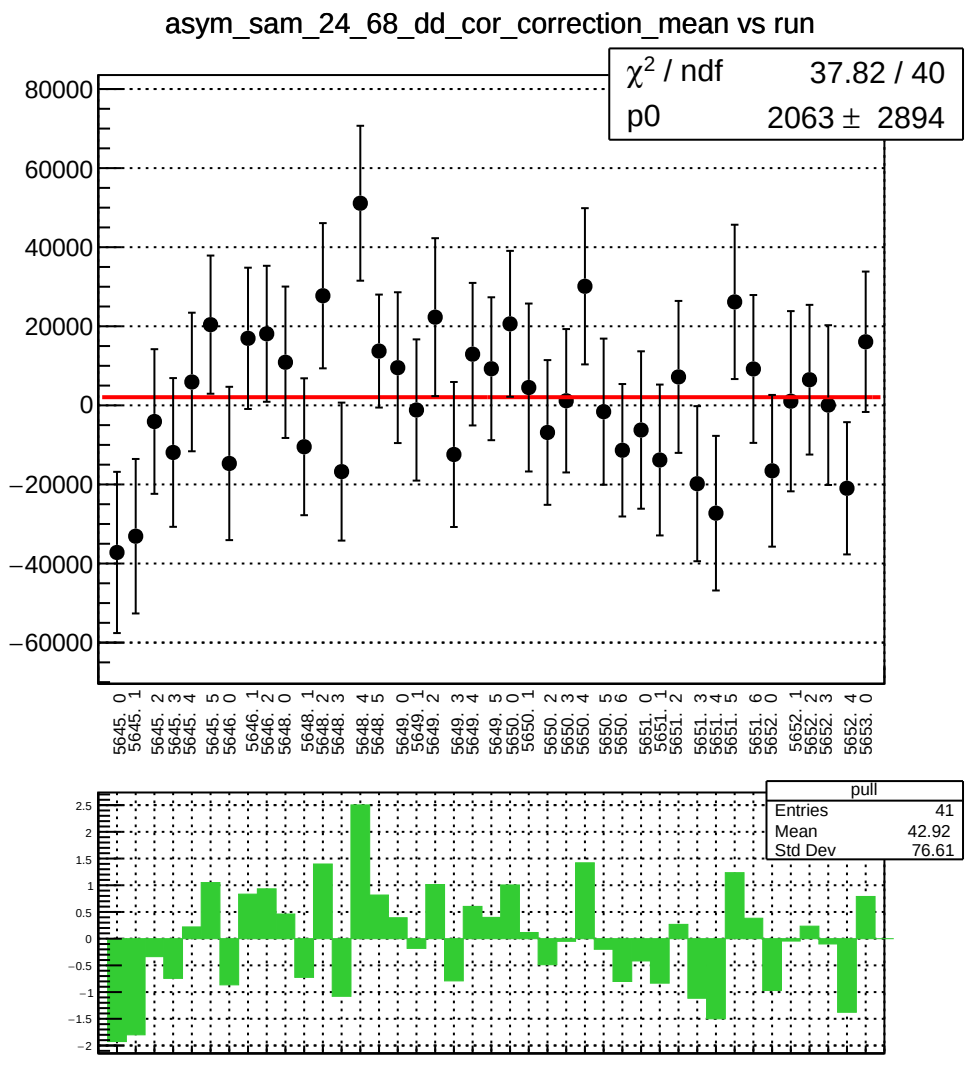

pull1D
Entries 41
Mean −0.00642
Std Dev 0.9604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

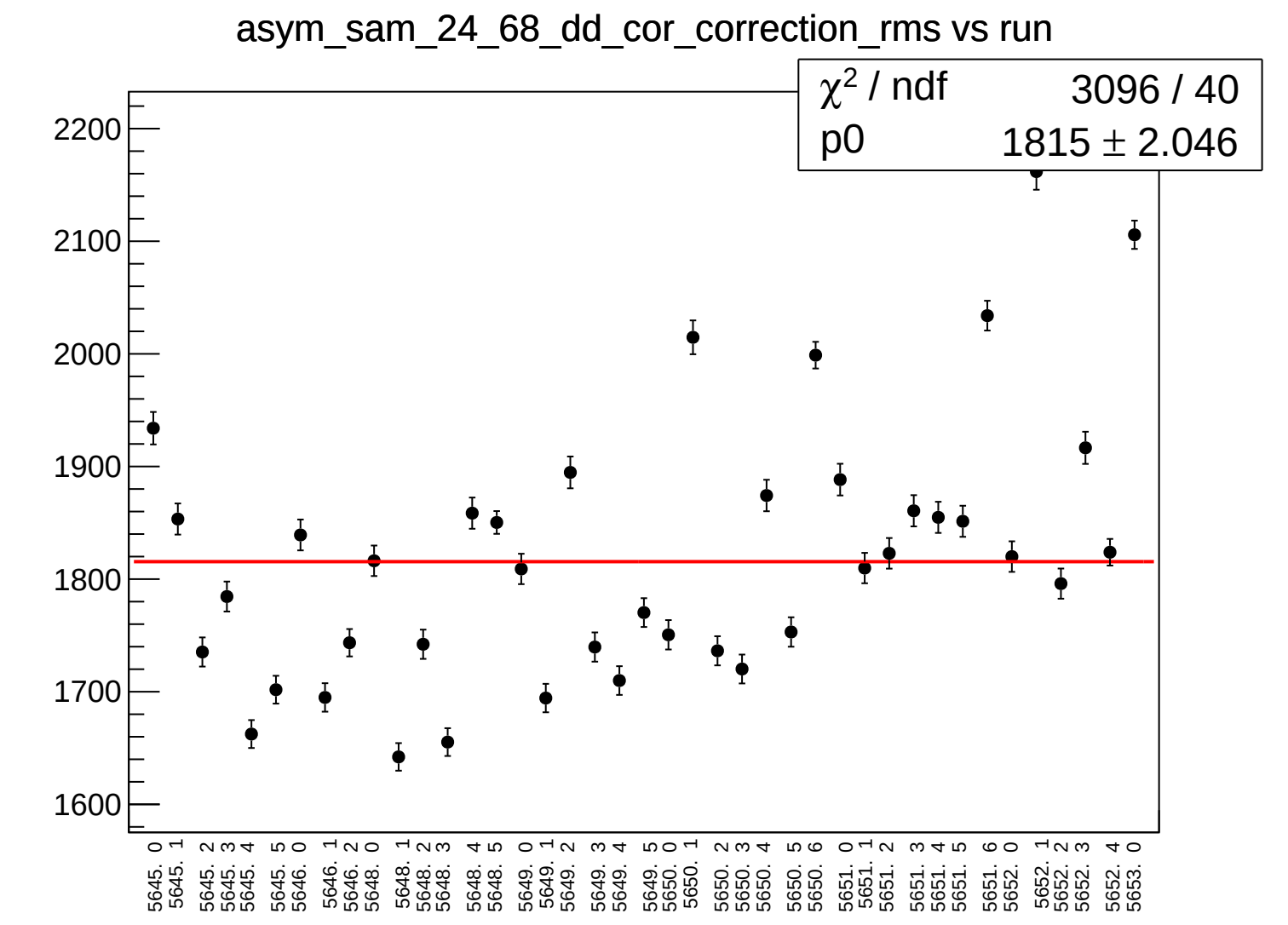

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 3096 / 40
p0 1815 ± 2.046
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

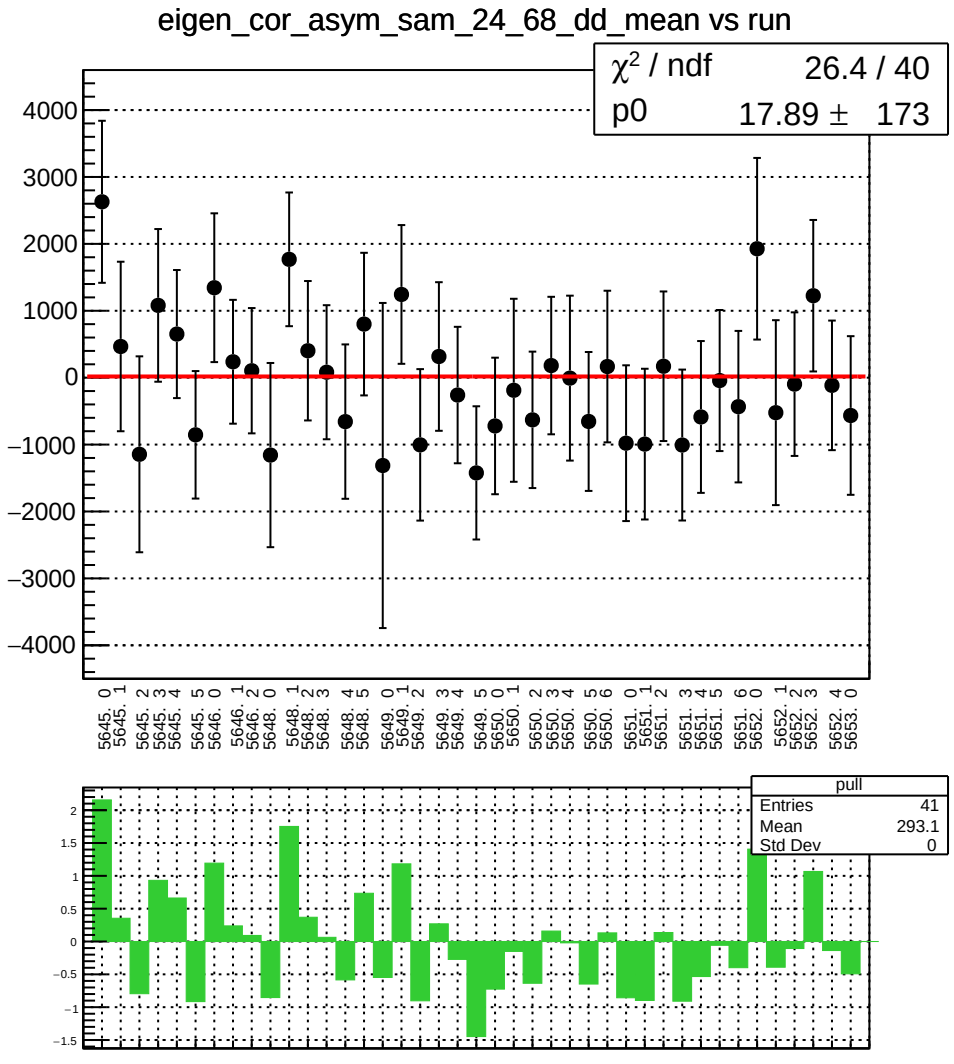

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 26.4 / 40
p0 17.89 ± 173
pull
Entries 41
Mean 293.1
Std Dev 0

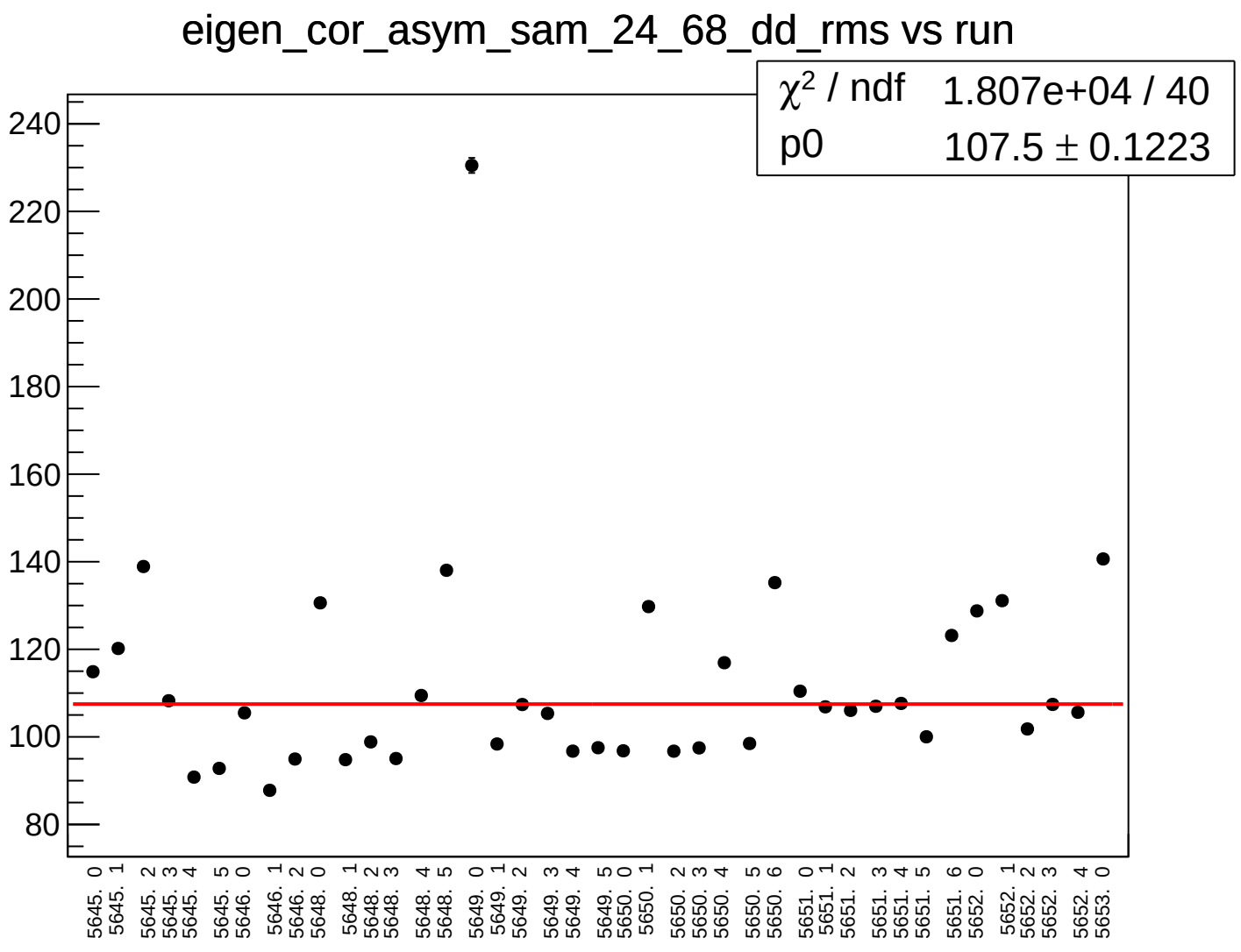

pull1D
Entries 41
Mean −0.009202
Std Dev 0.8023

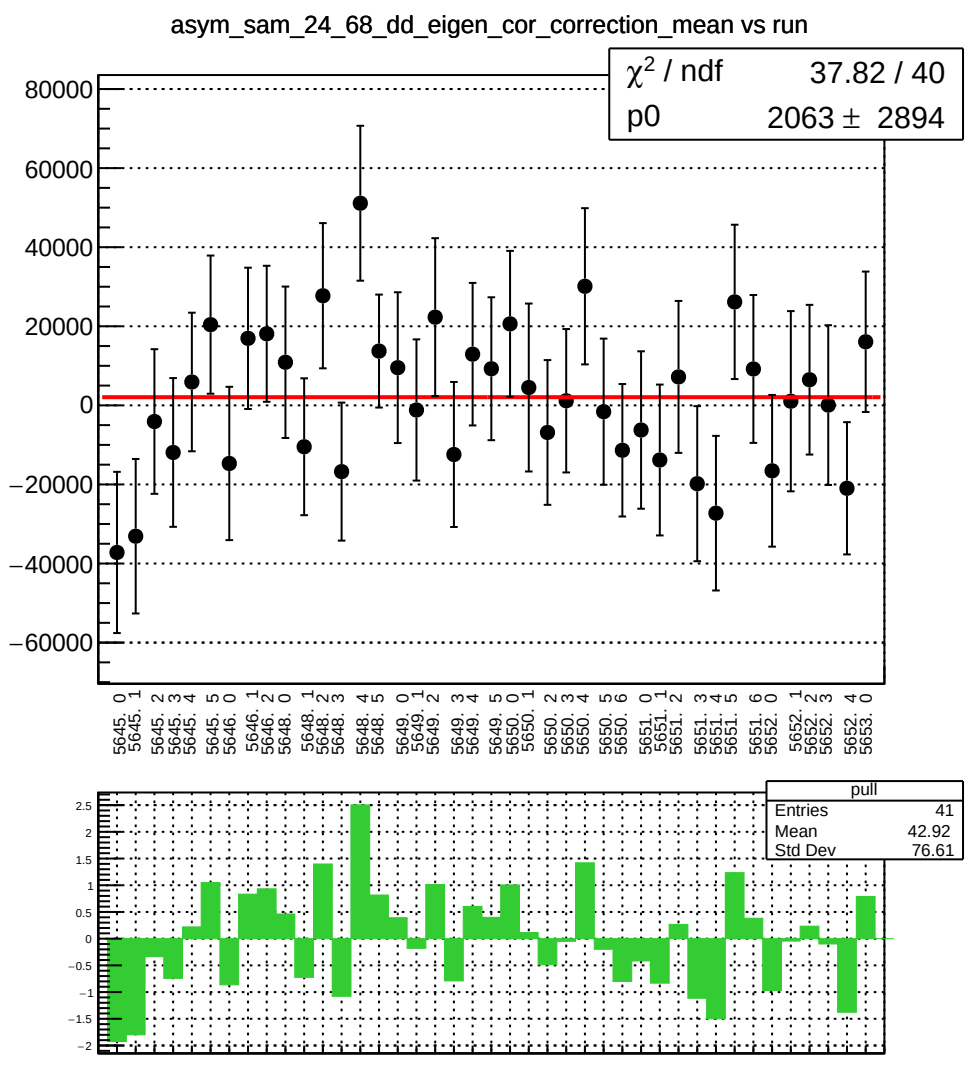

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.807e+04 / 40
p0 107.5 ± 0.1223
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

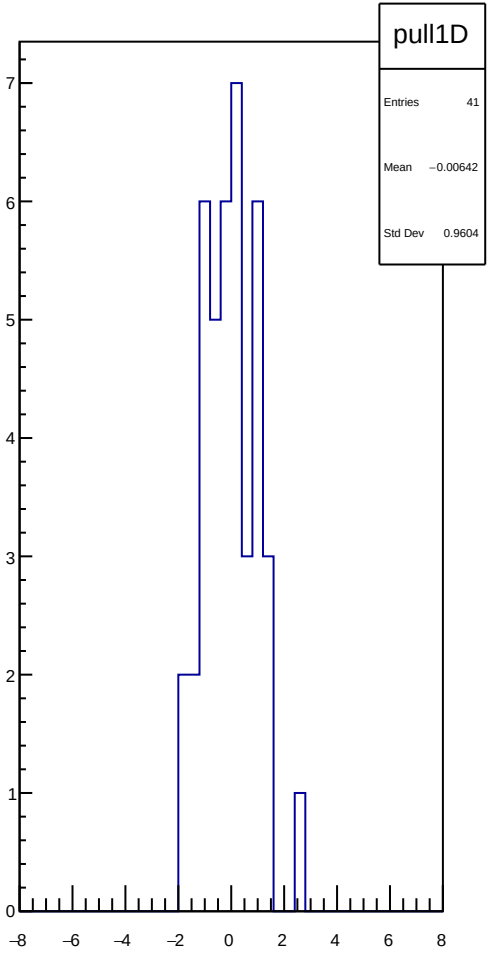

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 37.82 / 40
p0 2063 ± 2894
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.92
Std Dev 76.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.00642
Std Dev 0.9604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

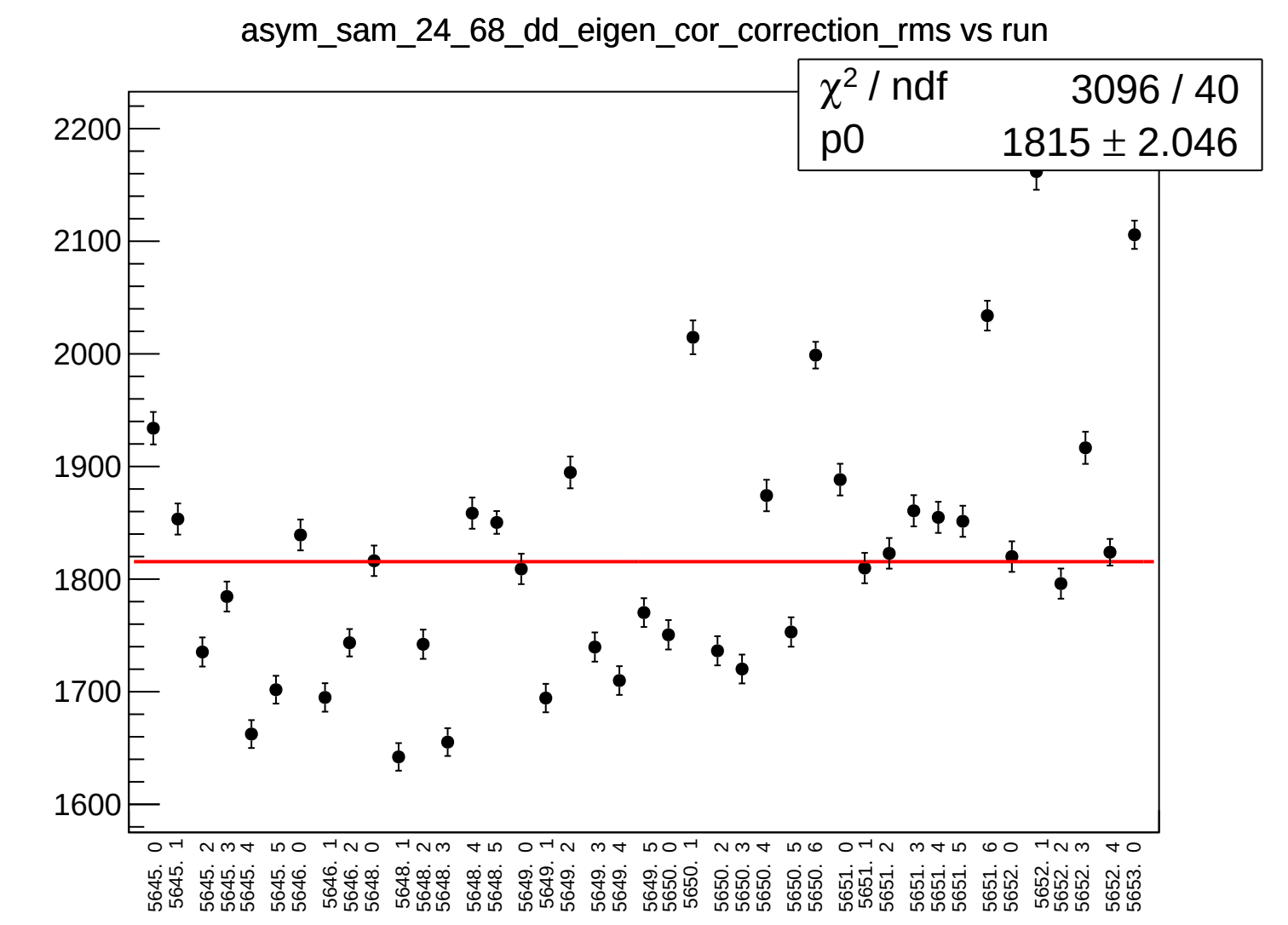

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 3096 / 40
p0 1815 ± 2.046
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

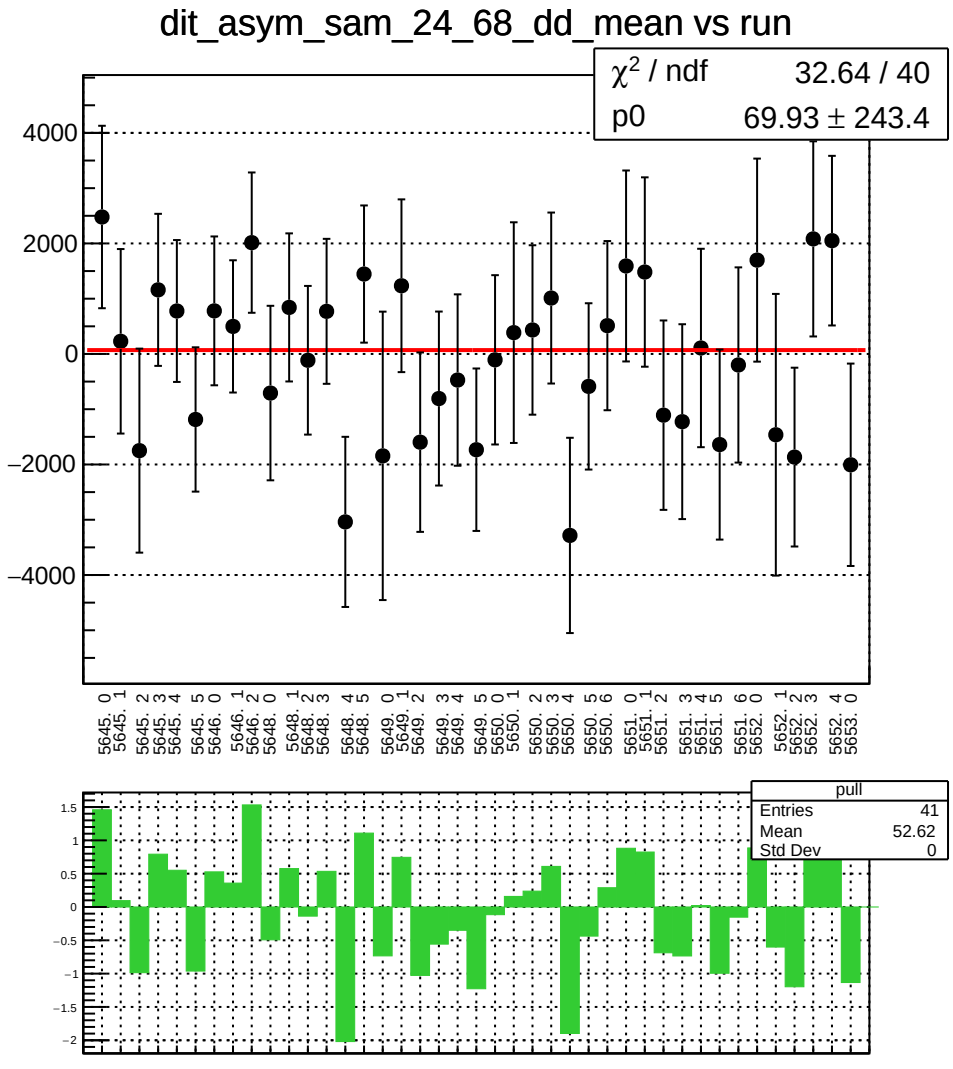

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 26.4 / 40
p0 17.89 ± 173
pull
Entries 41
Mean 293.1
Std Dev 0
pull1D
Entries 41
Mean −0.009202
Std Dev 0.8023

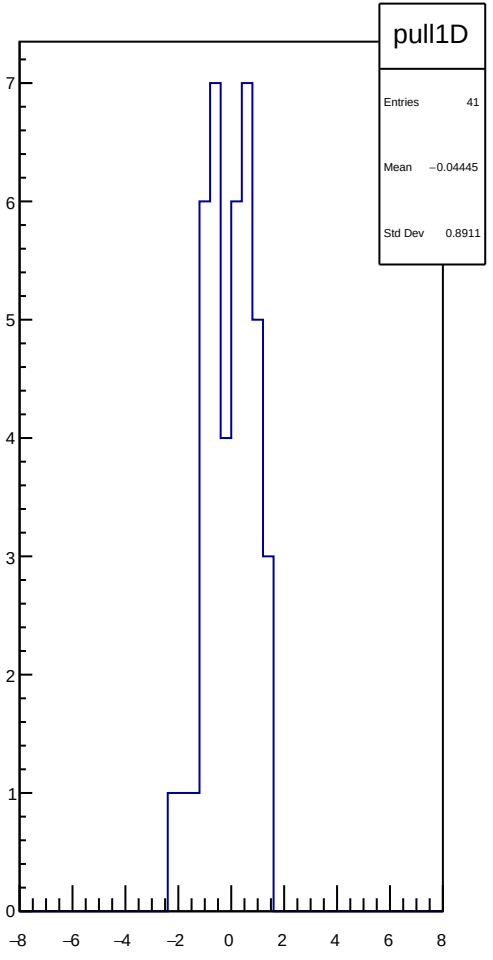

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.807e+04 / 40
p0 107.5 ± 0.1223
240
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

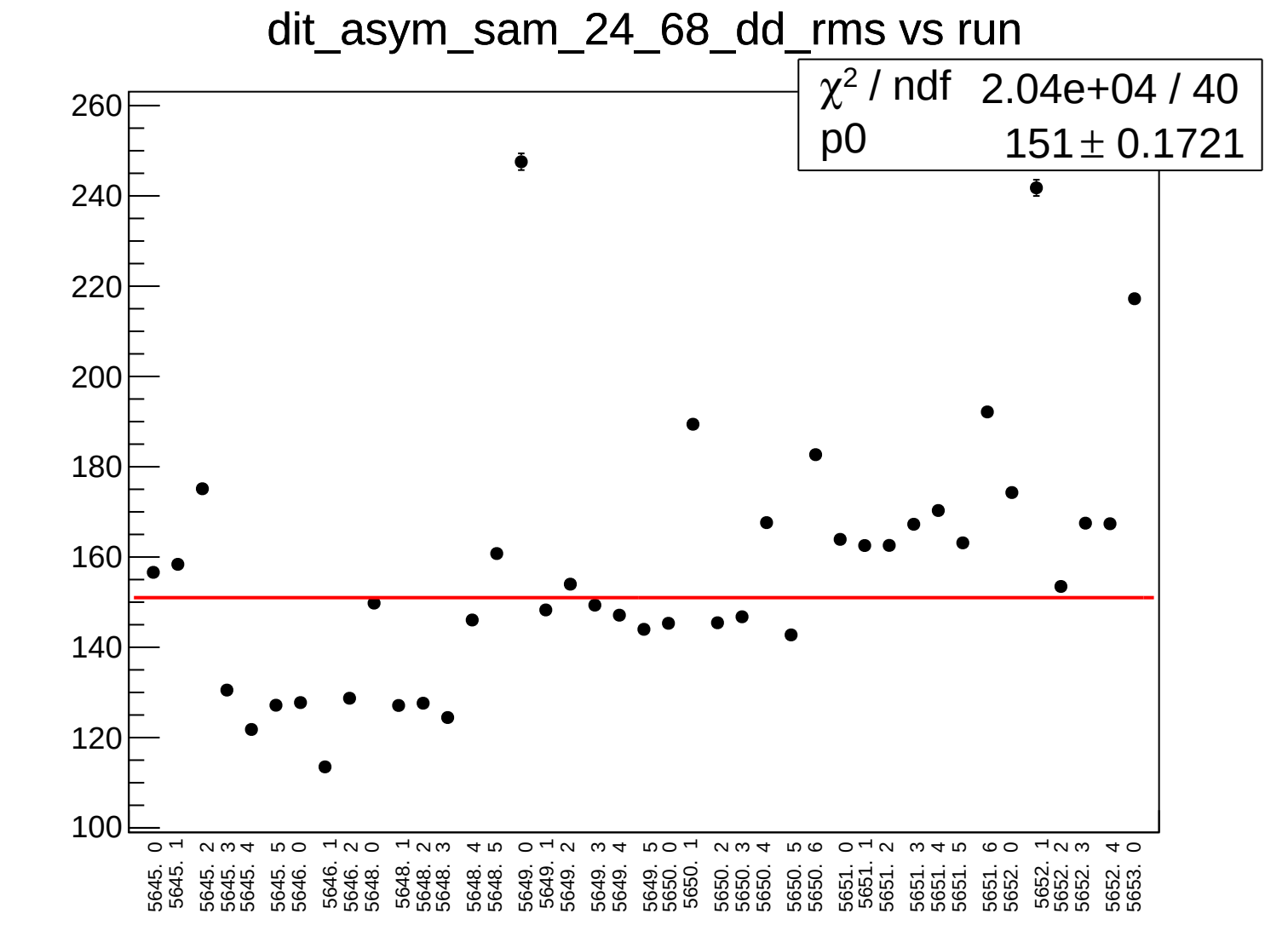

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 37.82 / 40
p0 2063 ± 2894
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 42.92
Std Dev 76.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

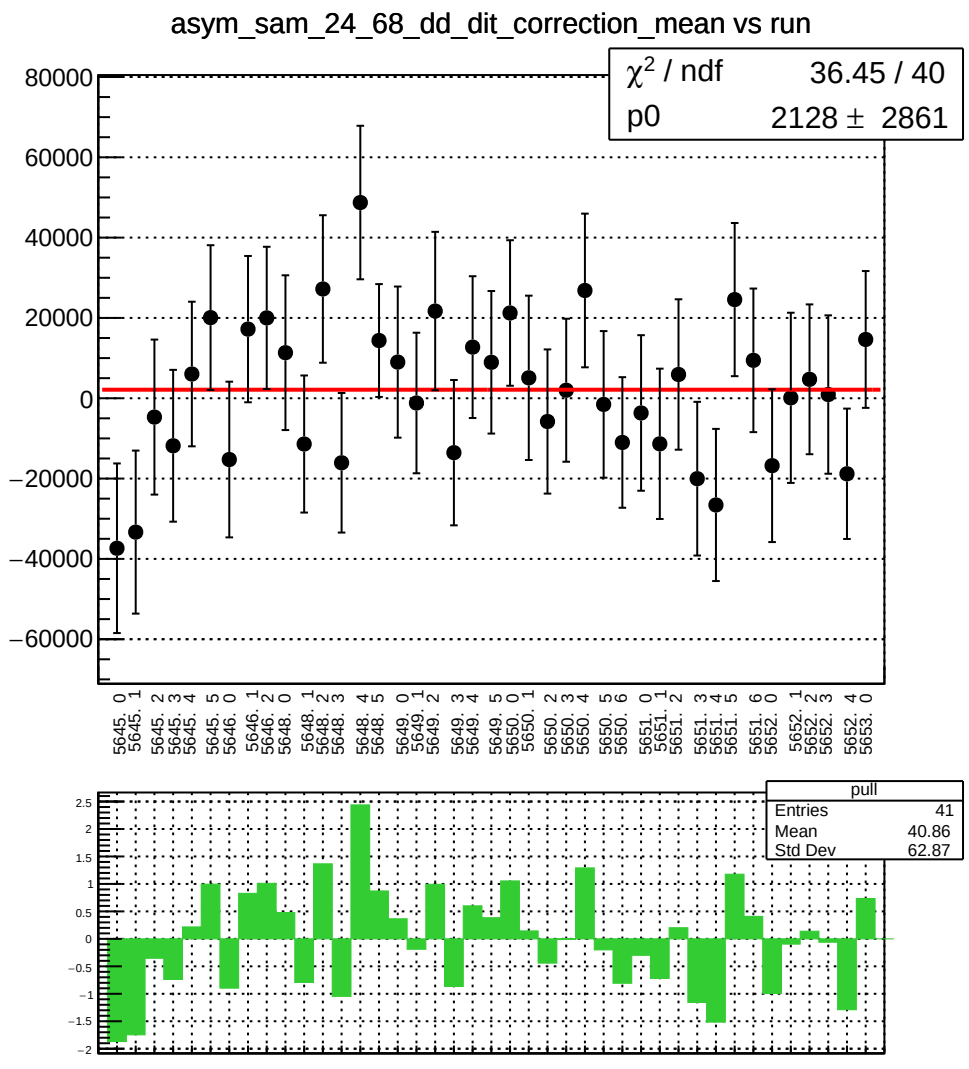

pull1D
Entries 41
Mean −0.00642
Std Dev 0.9604
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

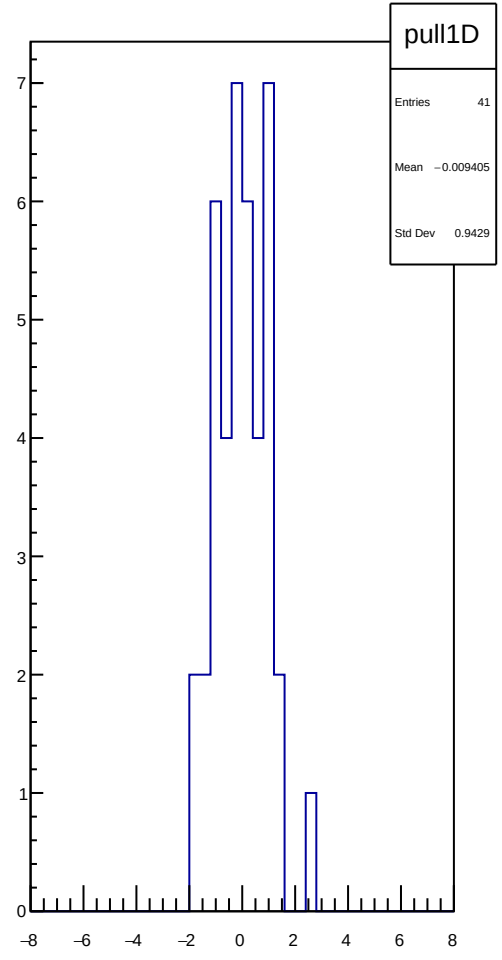

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 3096 / 40
p0 1815 ± 2.046
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

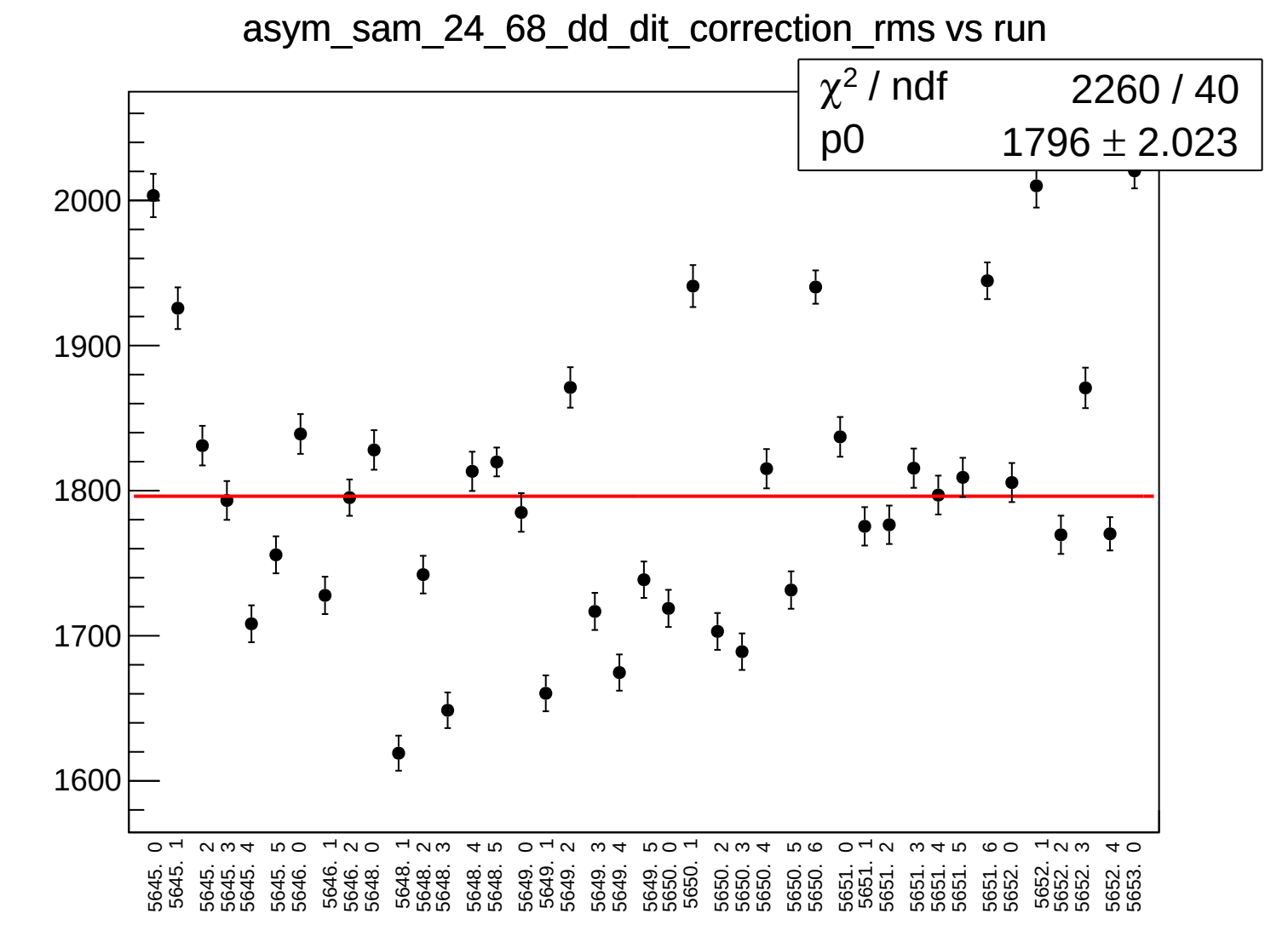

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 32.64 / 40
p0 69.93 ± 243.4
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 52.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

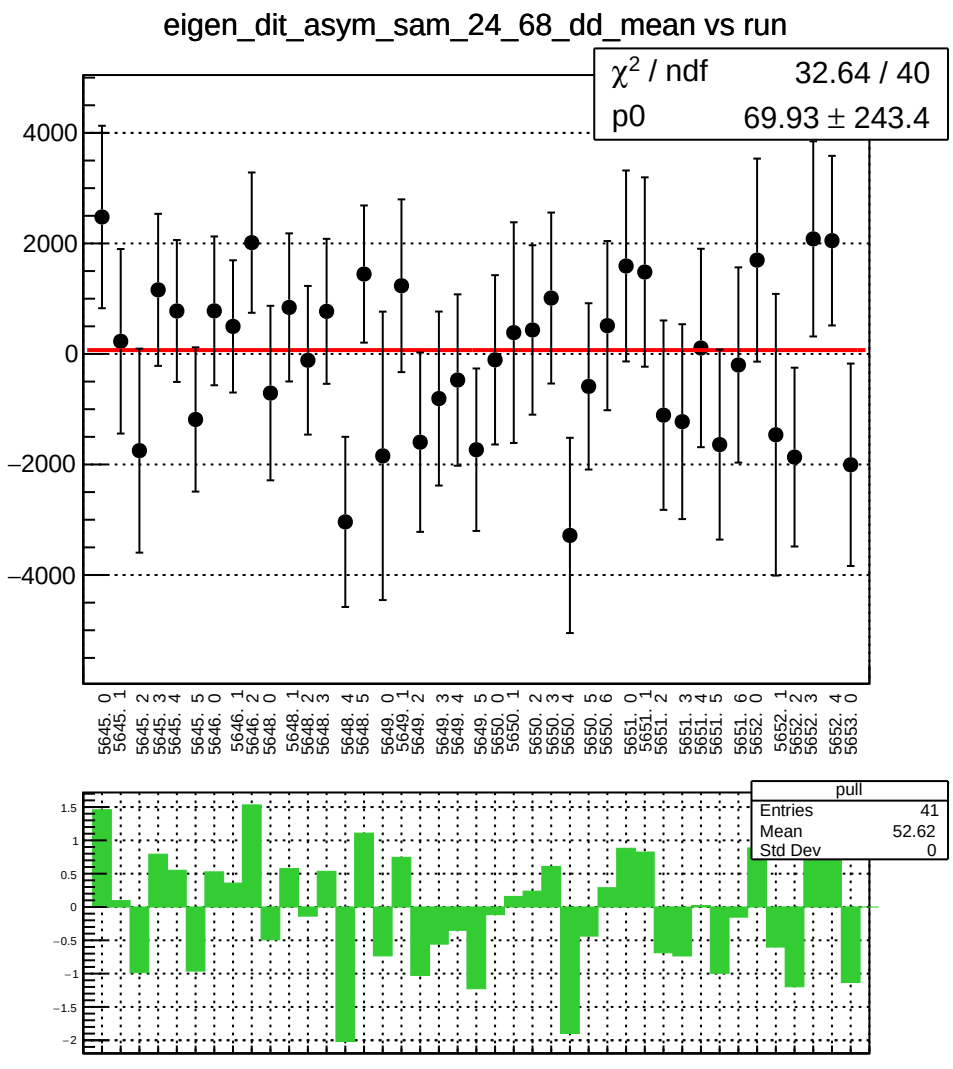

pull1D
Entries 41
Mean −0.04445
Std Dev 0.8911
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

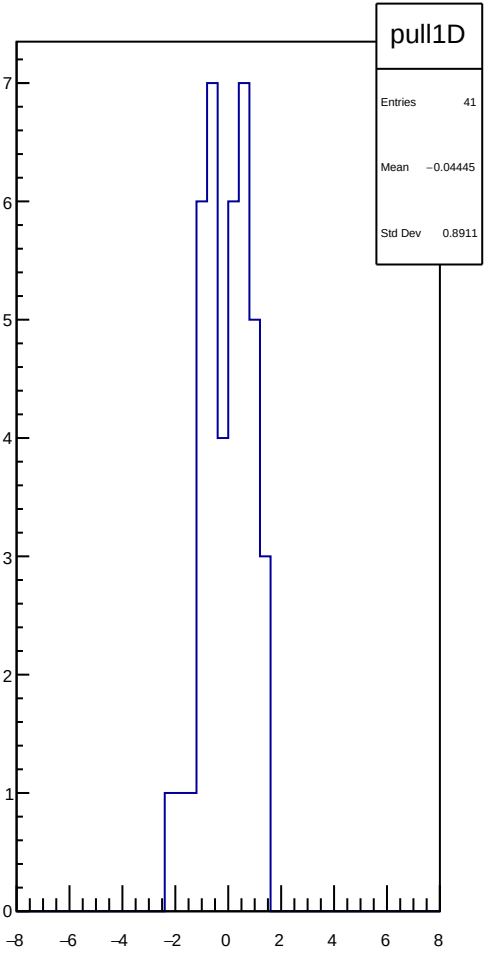

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.04e+04 / 40
p0 151 ± 0.1721
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

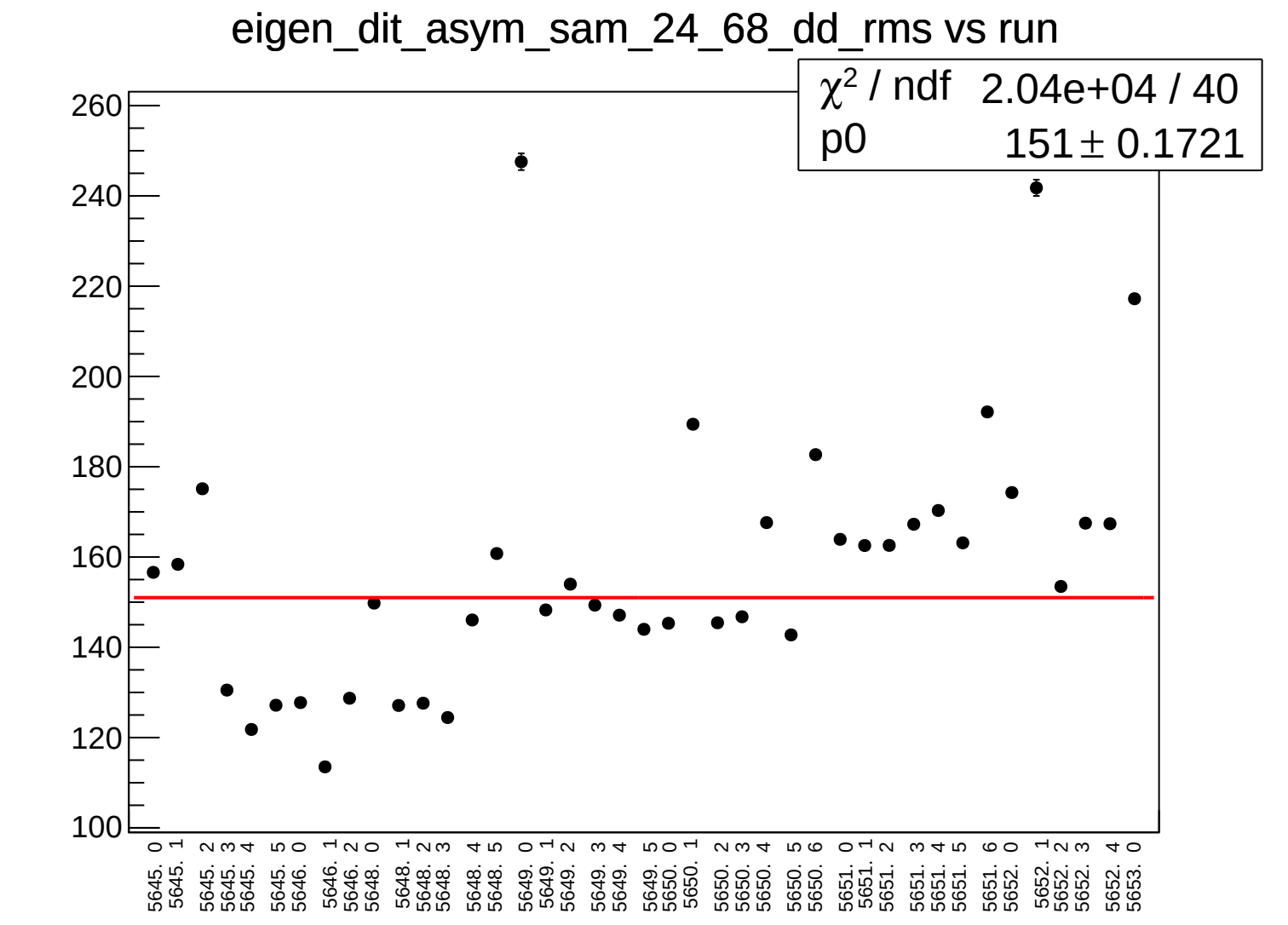

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 36.45 / 40
p0 2128 ± 2861
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.86
Std Dev 62.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

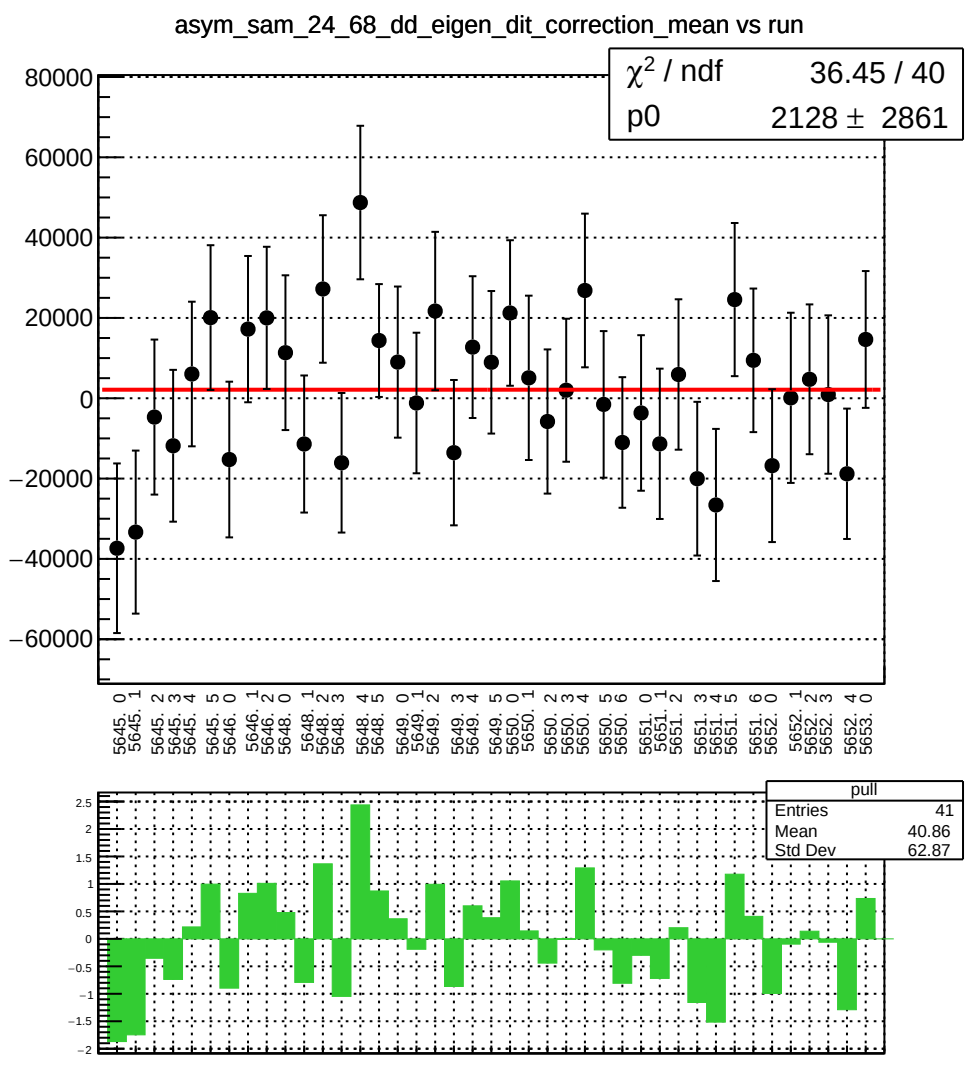

pull1D
Entries 41
Mean −0.009405
Std Dev 0.9429
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

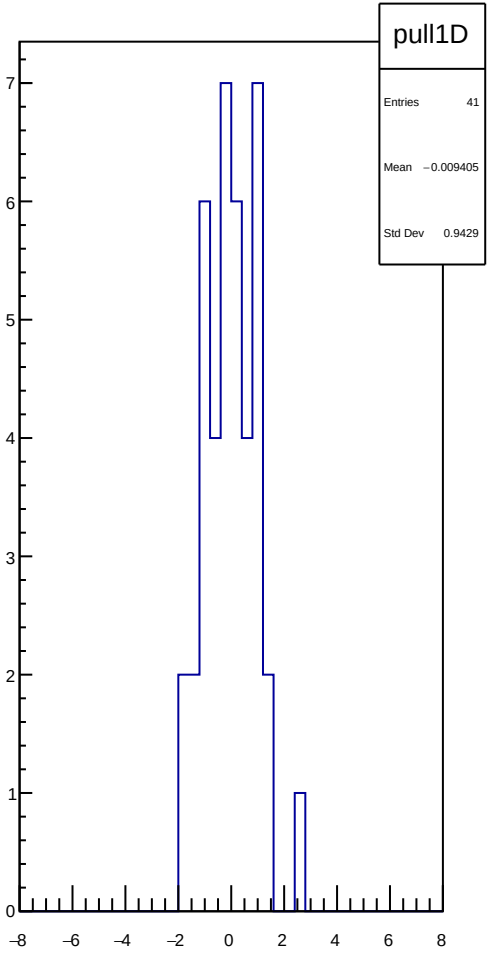

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2260 / 40
p0 1796 ± 2.023
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

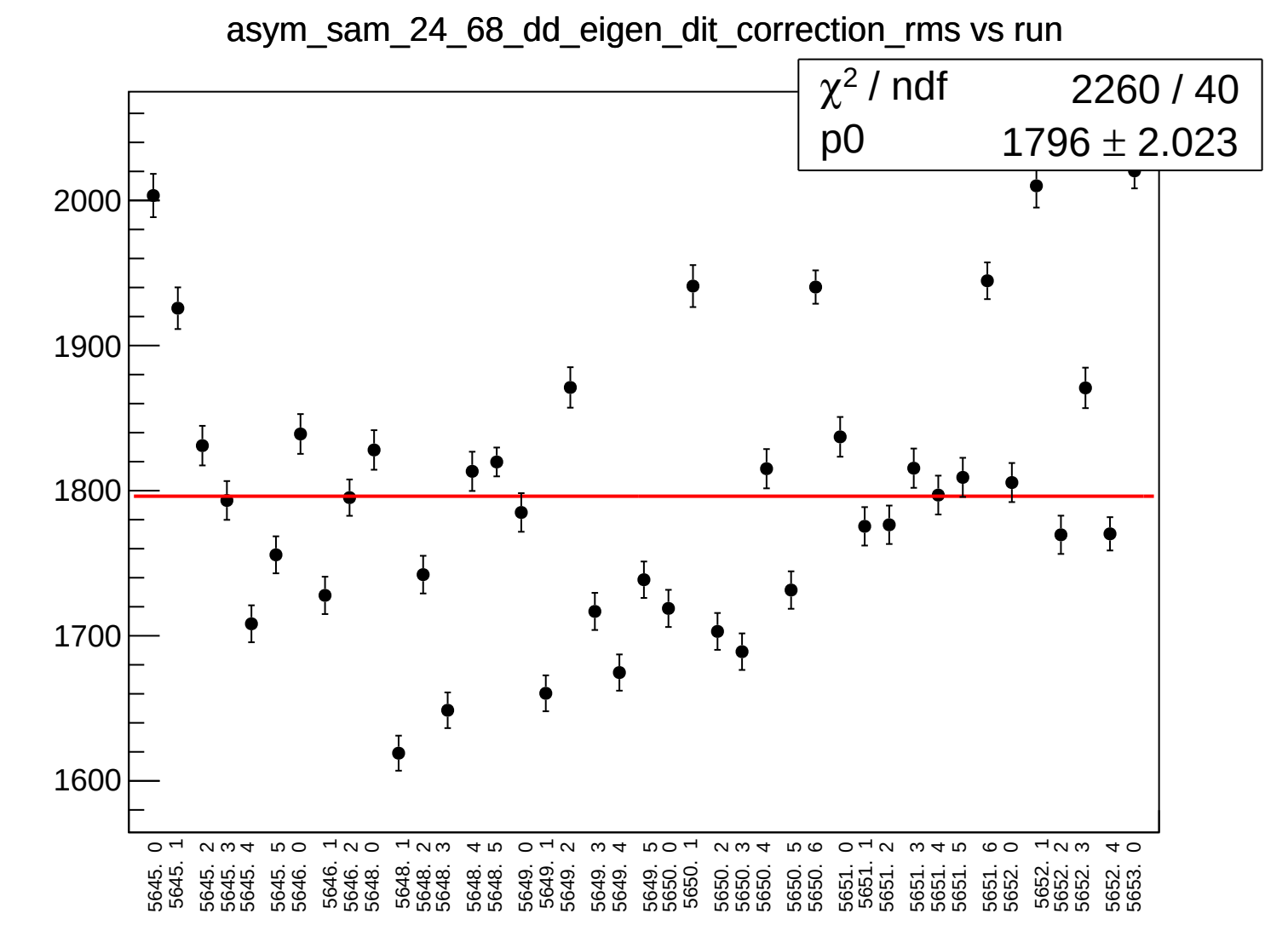

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 32.64 / 40
p0 69.93 ± 243.4
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 52.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

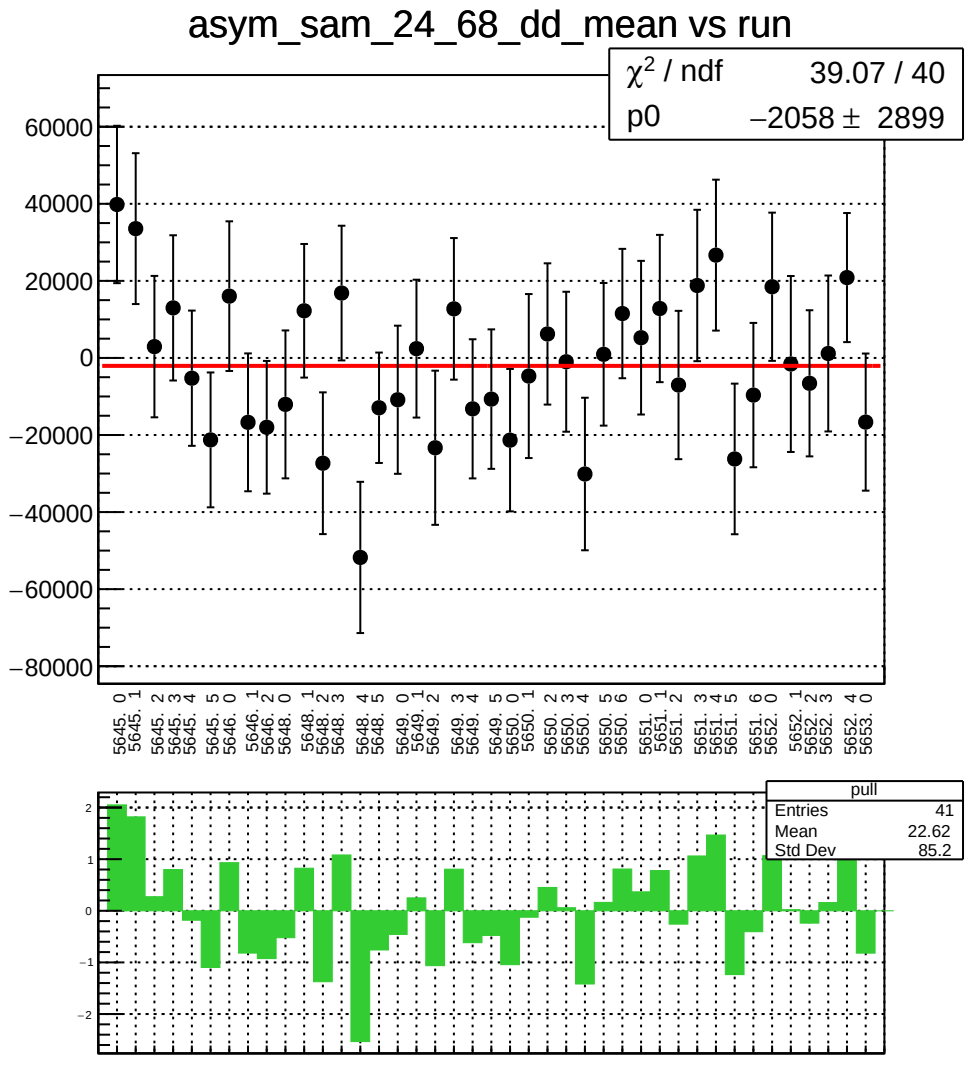

pull1D
Entries 41
Mean −0.04445
Std Dev 0.8911
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

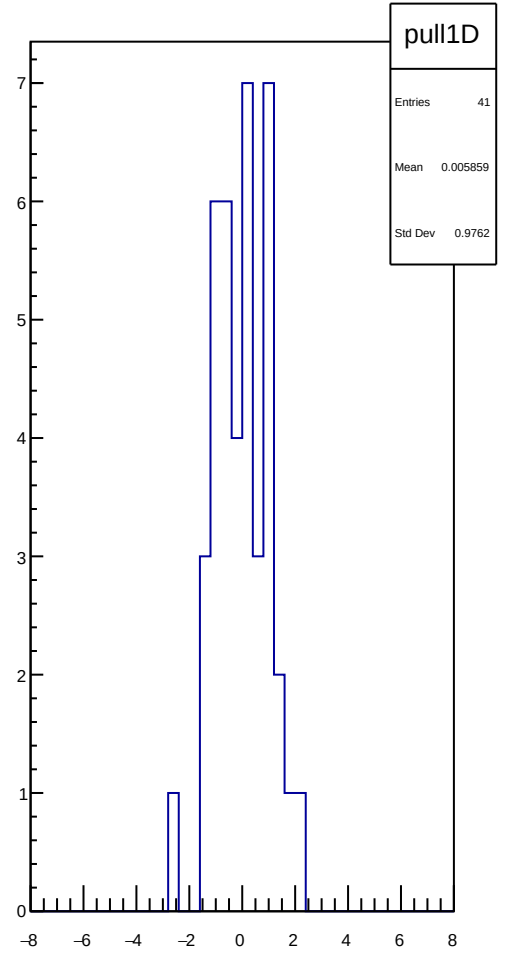

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.04e+04 / 40
p0 151 ± 0.1721
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

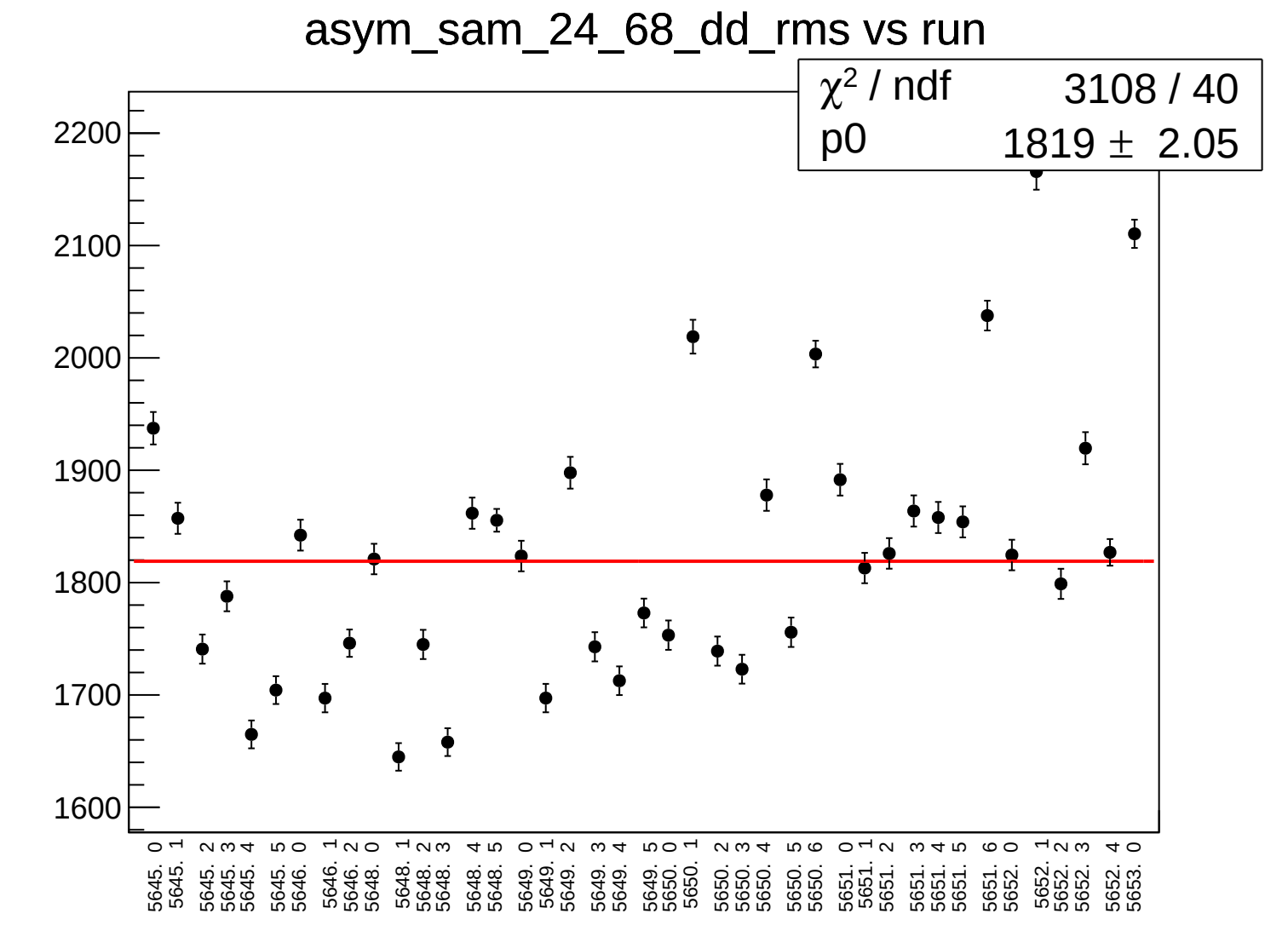

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 36.45 / 40
p0 2128 ± 2861
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.86
Std Dev 62.87
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

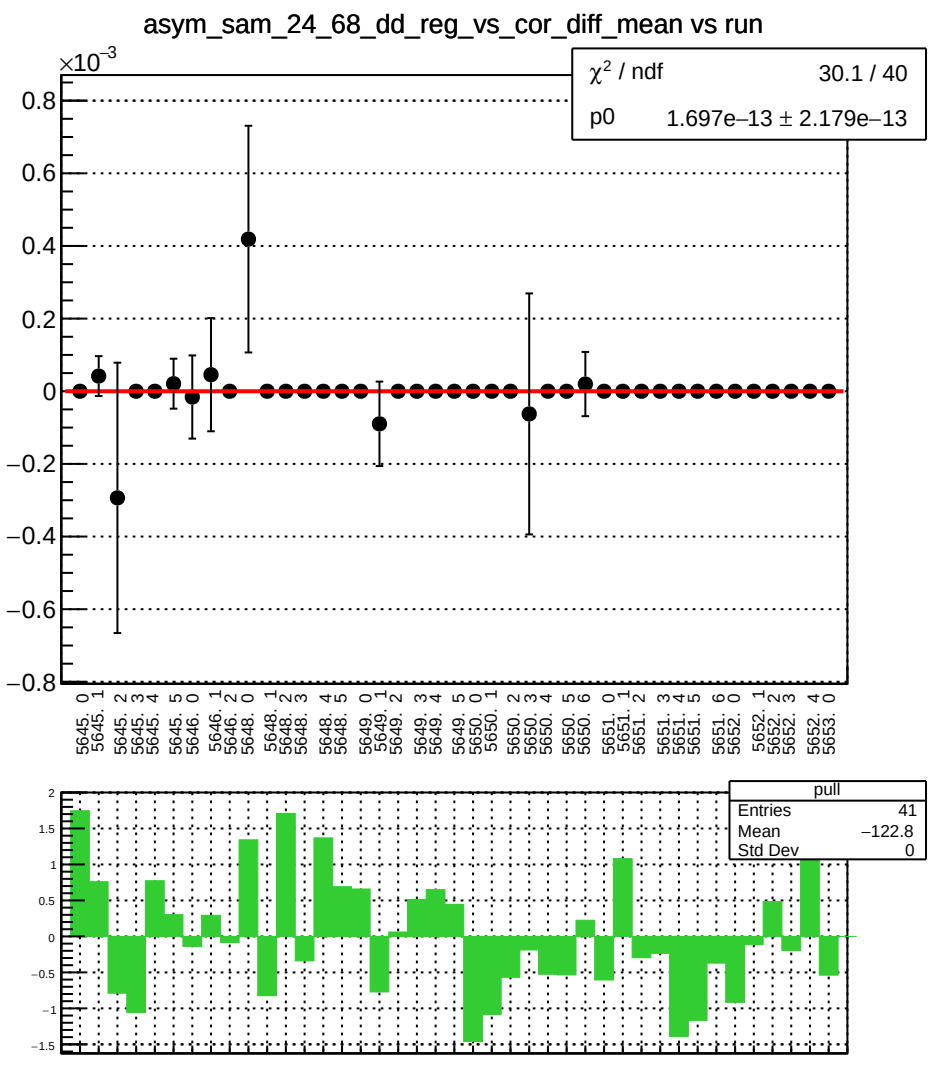

pull1D
Entries 41
Mean −0.009405
Std Dev 0.9429
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

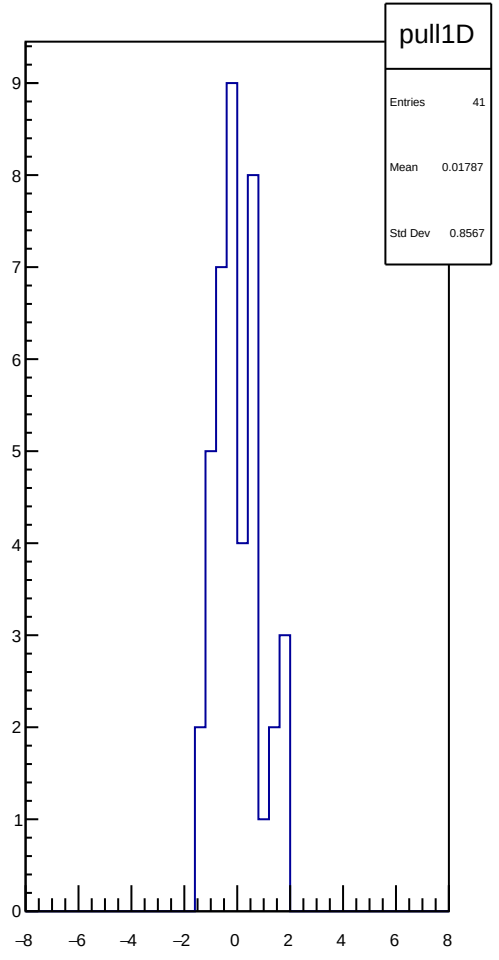

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2260 / 40
p0 1796 ± 2.023
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

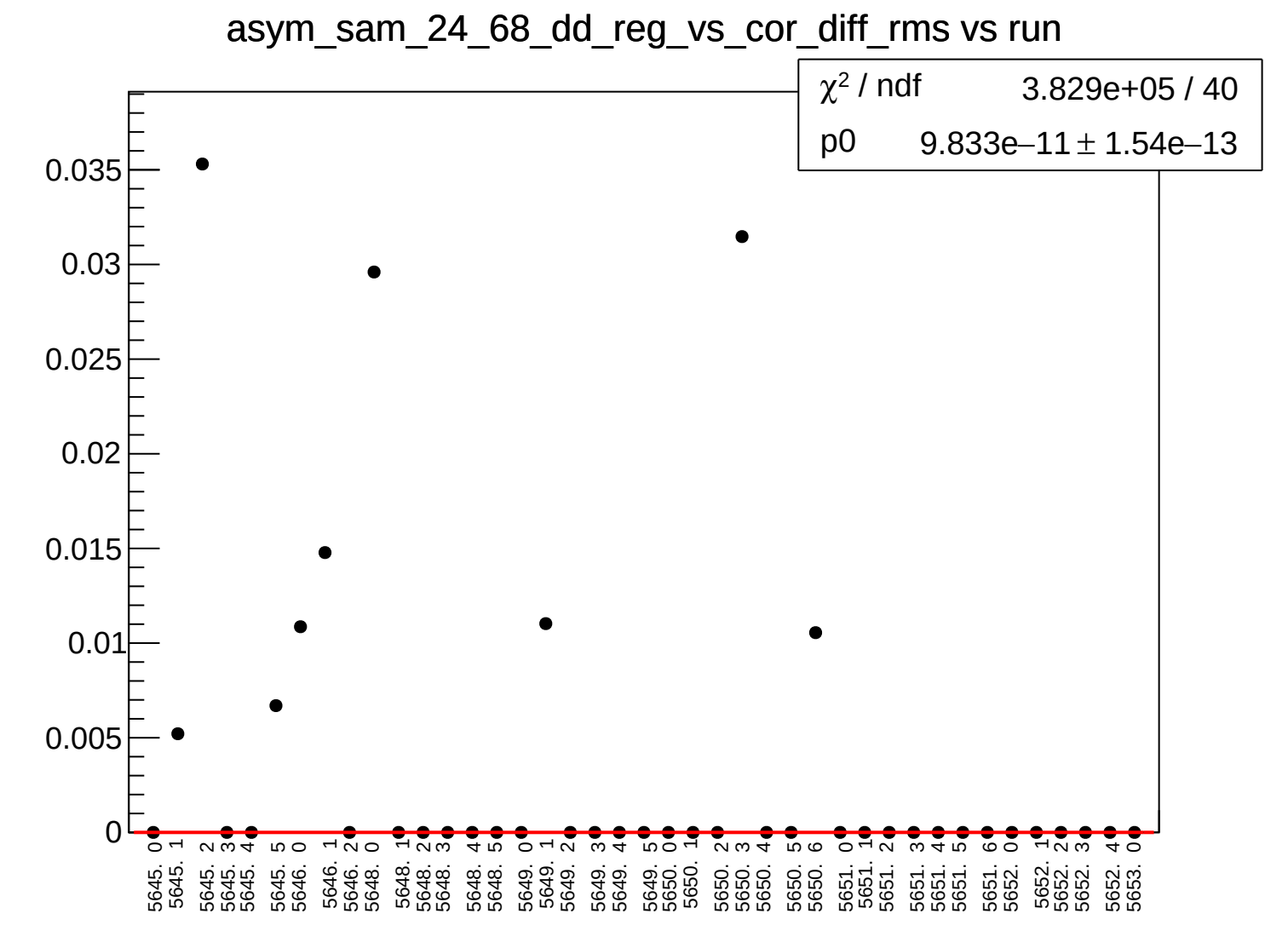

asym_sam_24_68_dd_mean vs run
χ² / ndf 39.07 / 40
p0 −2058 ± 2899
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.62
Std Dev 85.2
2
1
0
−1
−2

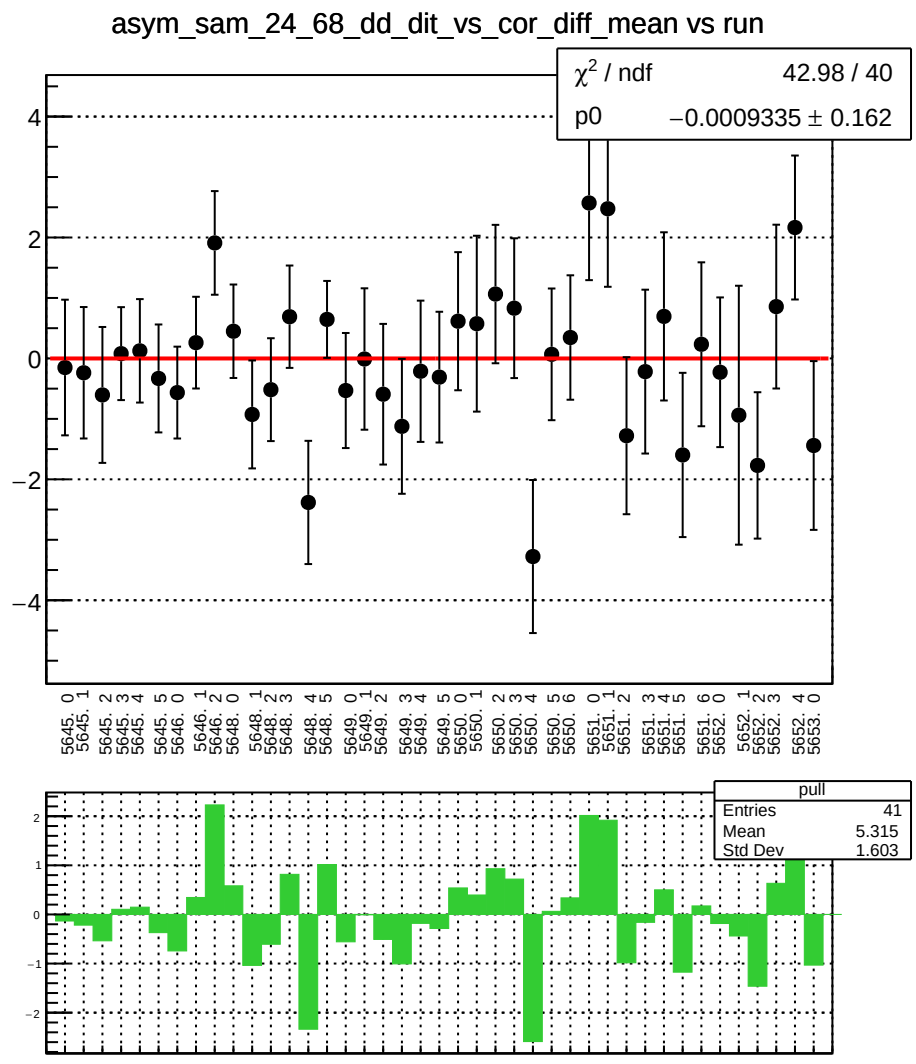

pull1D
Entries 41
Mean 0.005859
Std Dev 0.9762
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

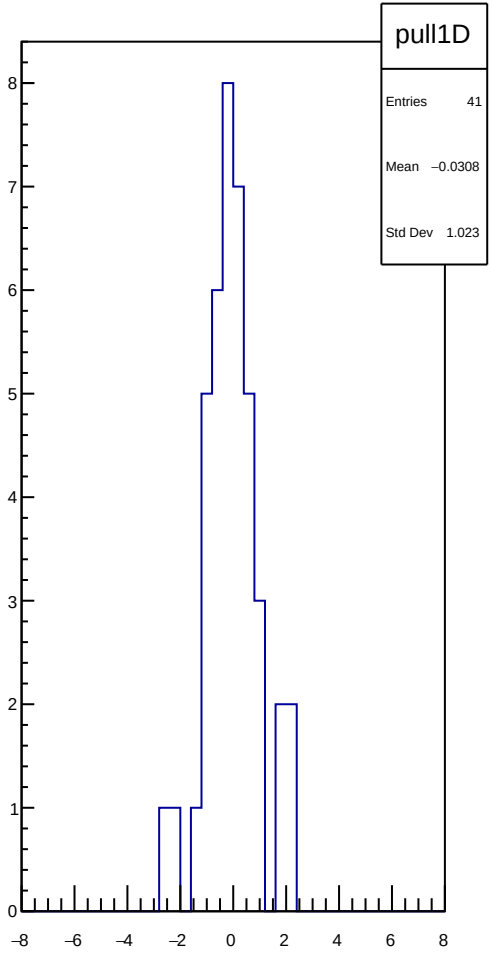

asym_sam_24_68_dd_rms vs run
χ² / ndf 3108 / 40
p0 1819 ± 2.05
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

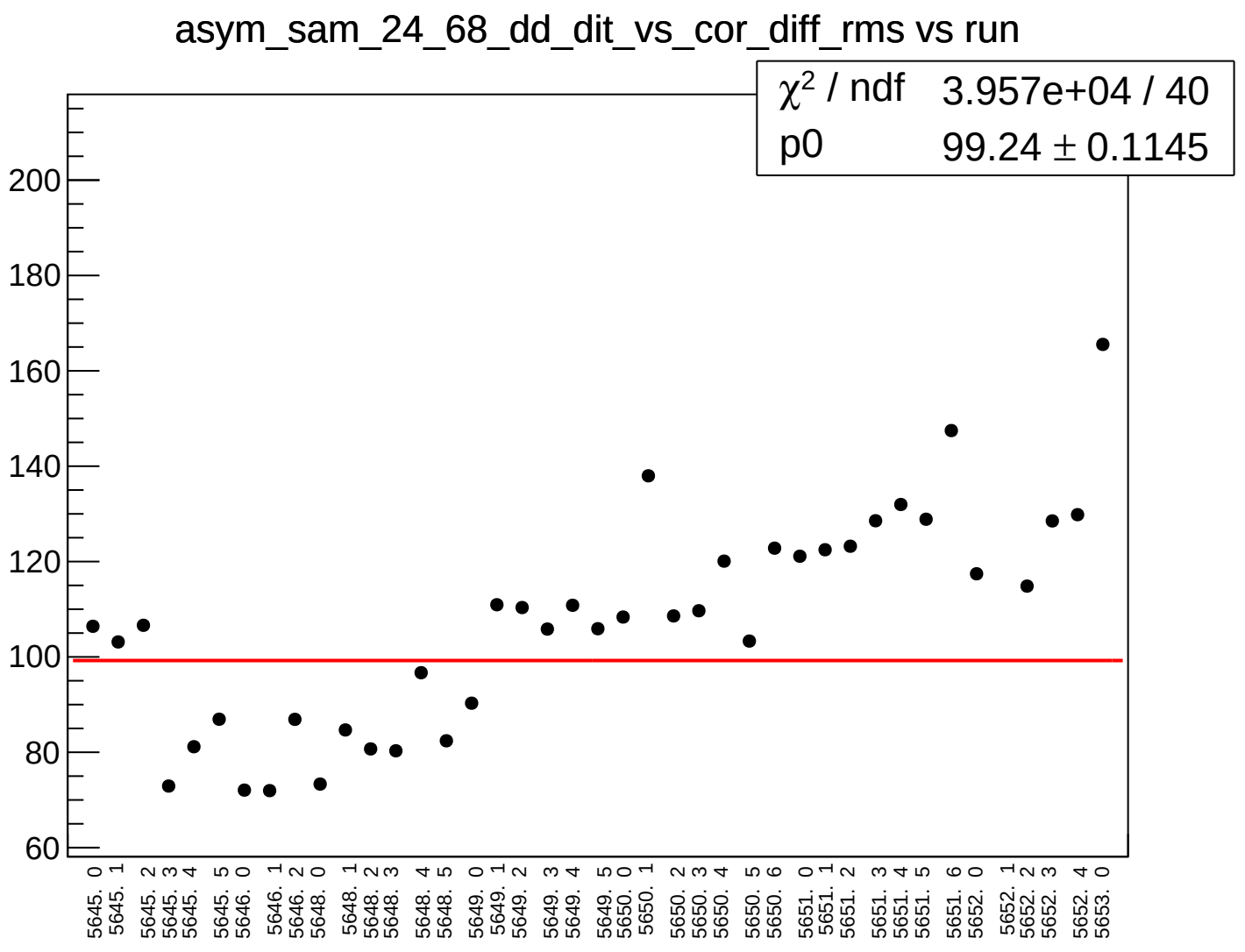

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 30.1 / 40
p0 1.697e−13 ± 2.179e−13
pull
Entries 41
Mean −122.8
Std Dev 0

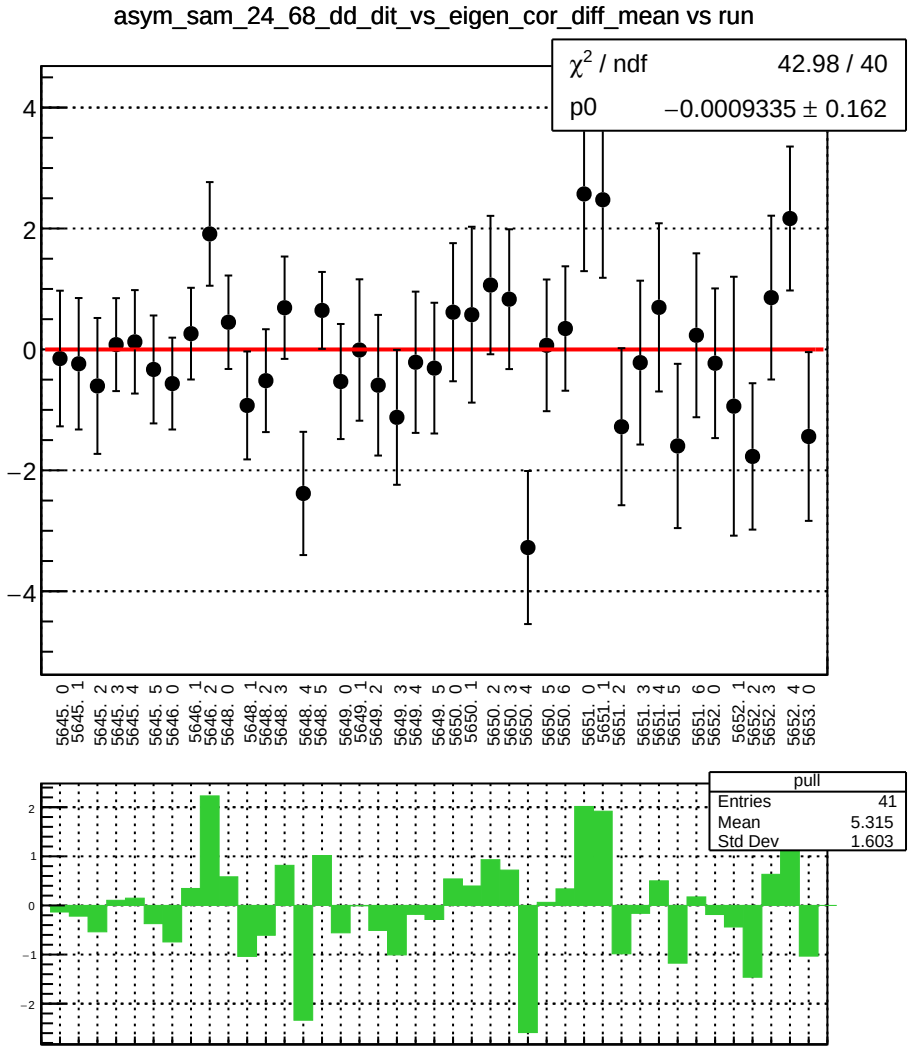

pull1D
Entries 41
Mean 0.01787
Std Dev 0.8567

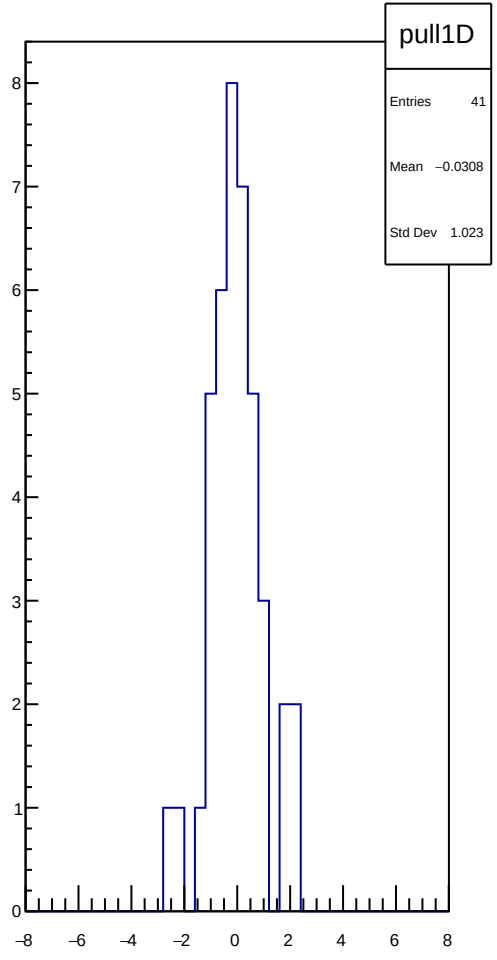

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.829e+05 / 40
p0 9.833e−11 ± 1.54e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

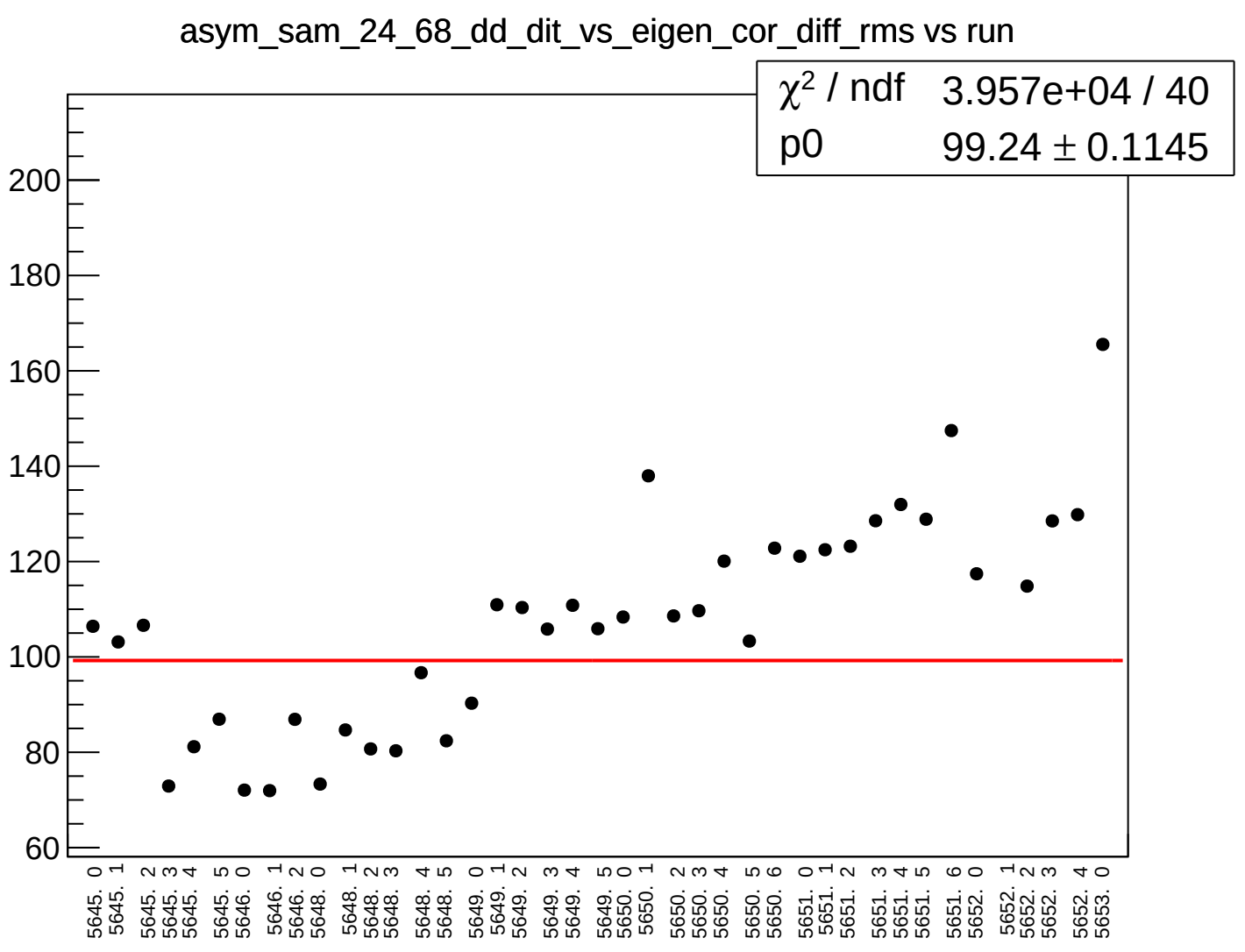

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.98 / 40
p0 −0.0009335 ± 0.162
pull
Entries 41
Mean 5.315
Std Dev 1.603

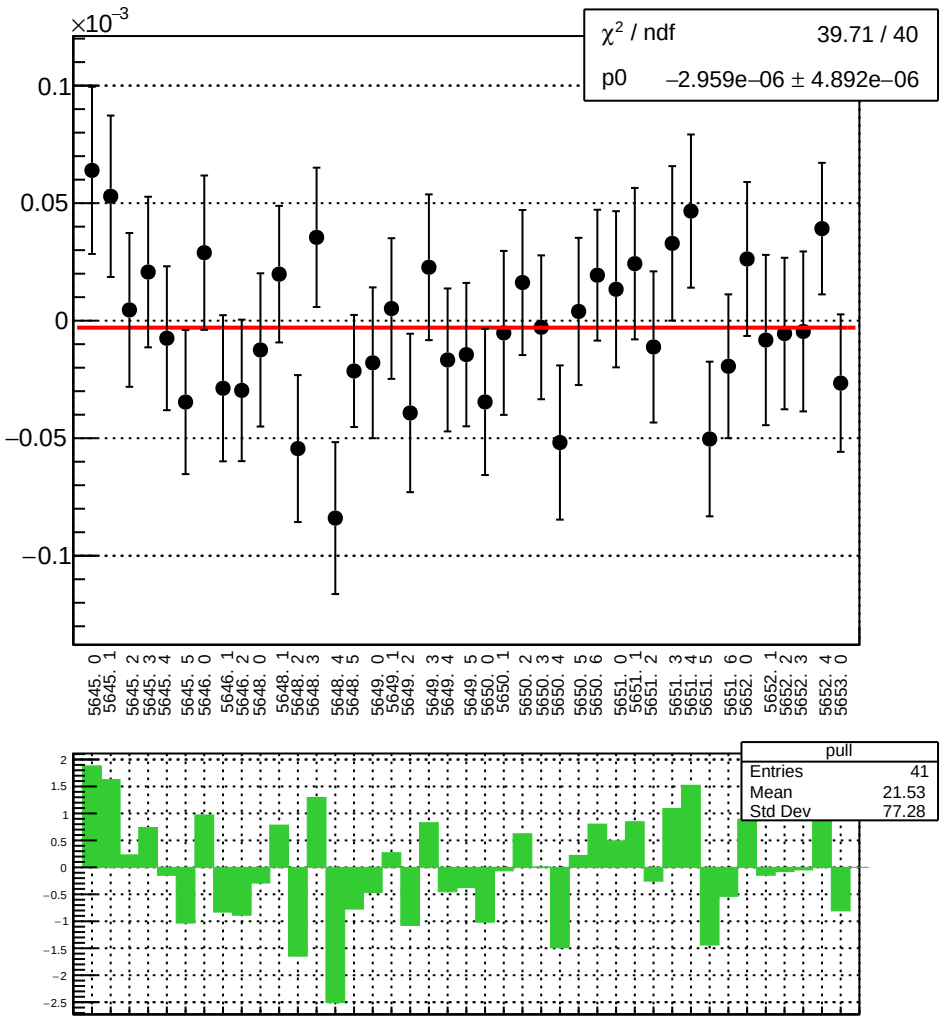

pull1D
Entries 41
Mean −0.0308
Std Dev 1.023

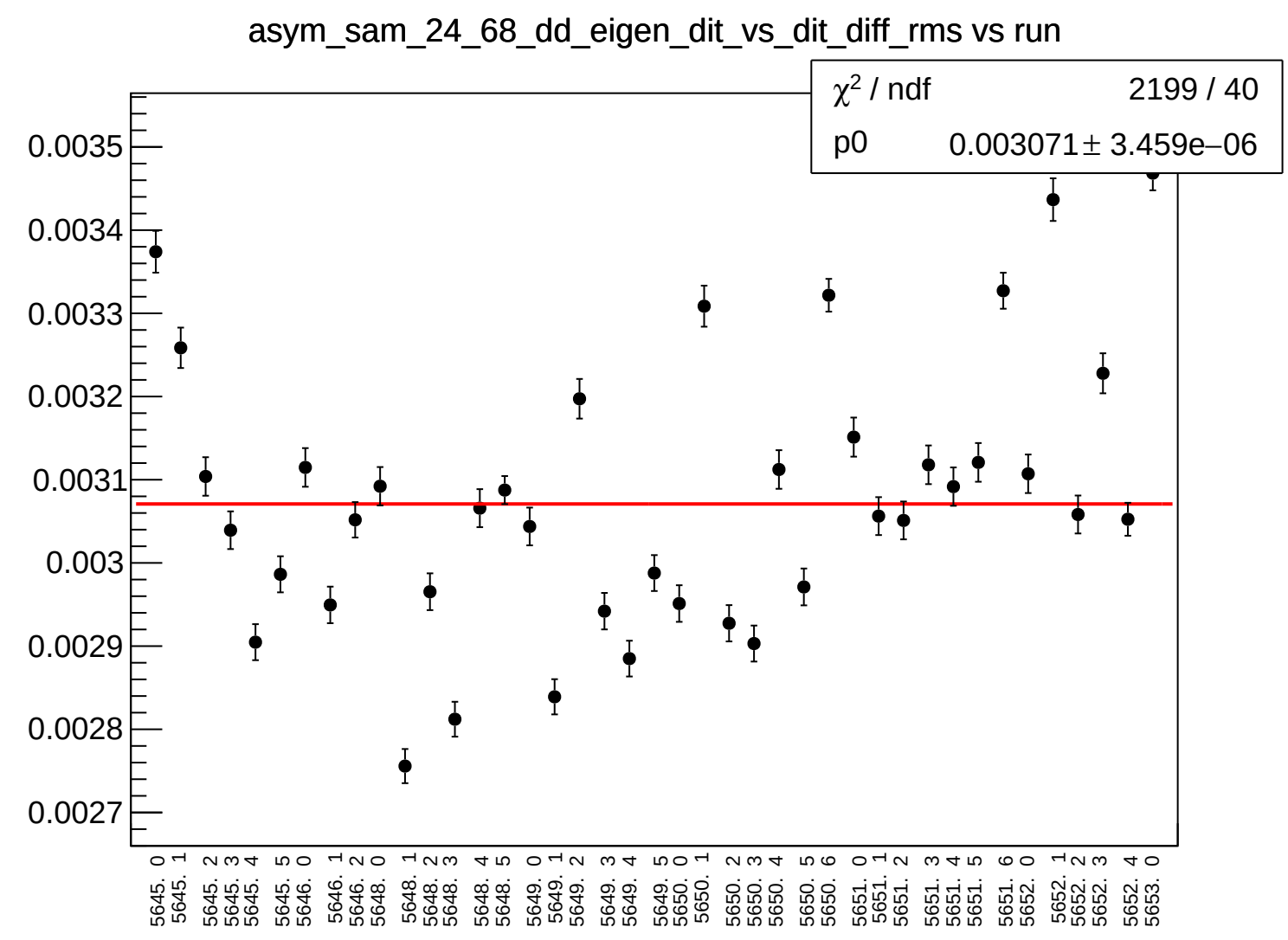

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.957e+04 / 40
p0 99.24 ± 0.1145
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

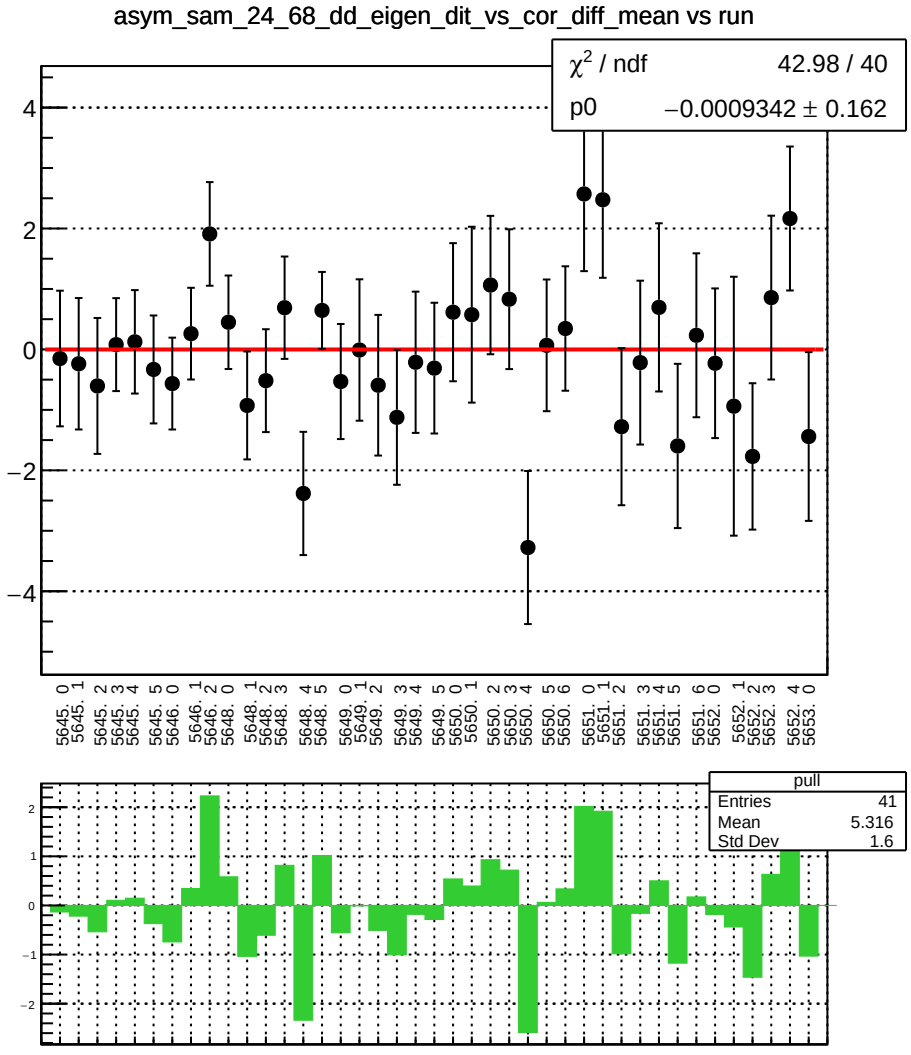

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.98 / 40
p0 −0.0009335 ± 0.162
pull
Entries 41
Mean 5.315
Std Dev 1.603

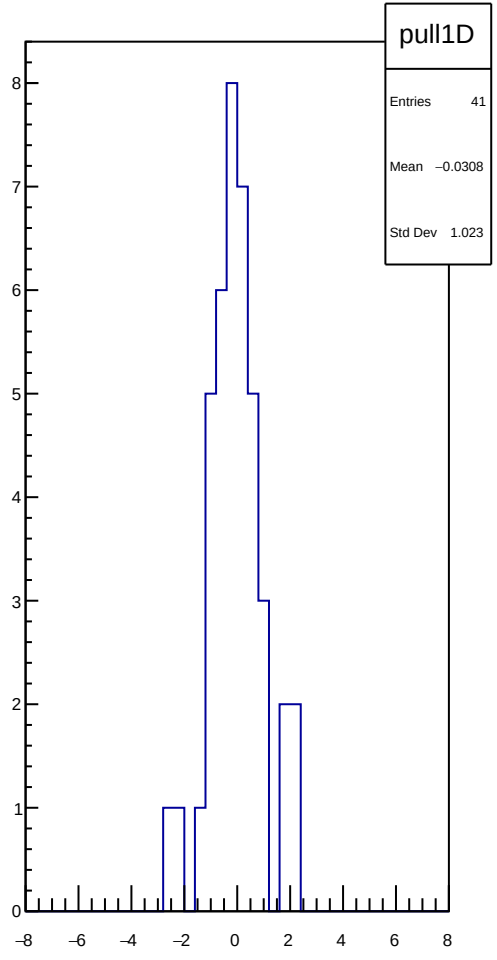

pull1D
Entries 41
Mean −0.0308
Std Dev 1.023

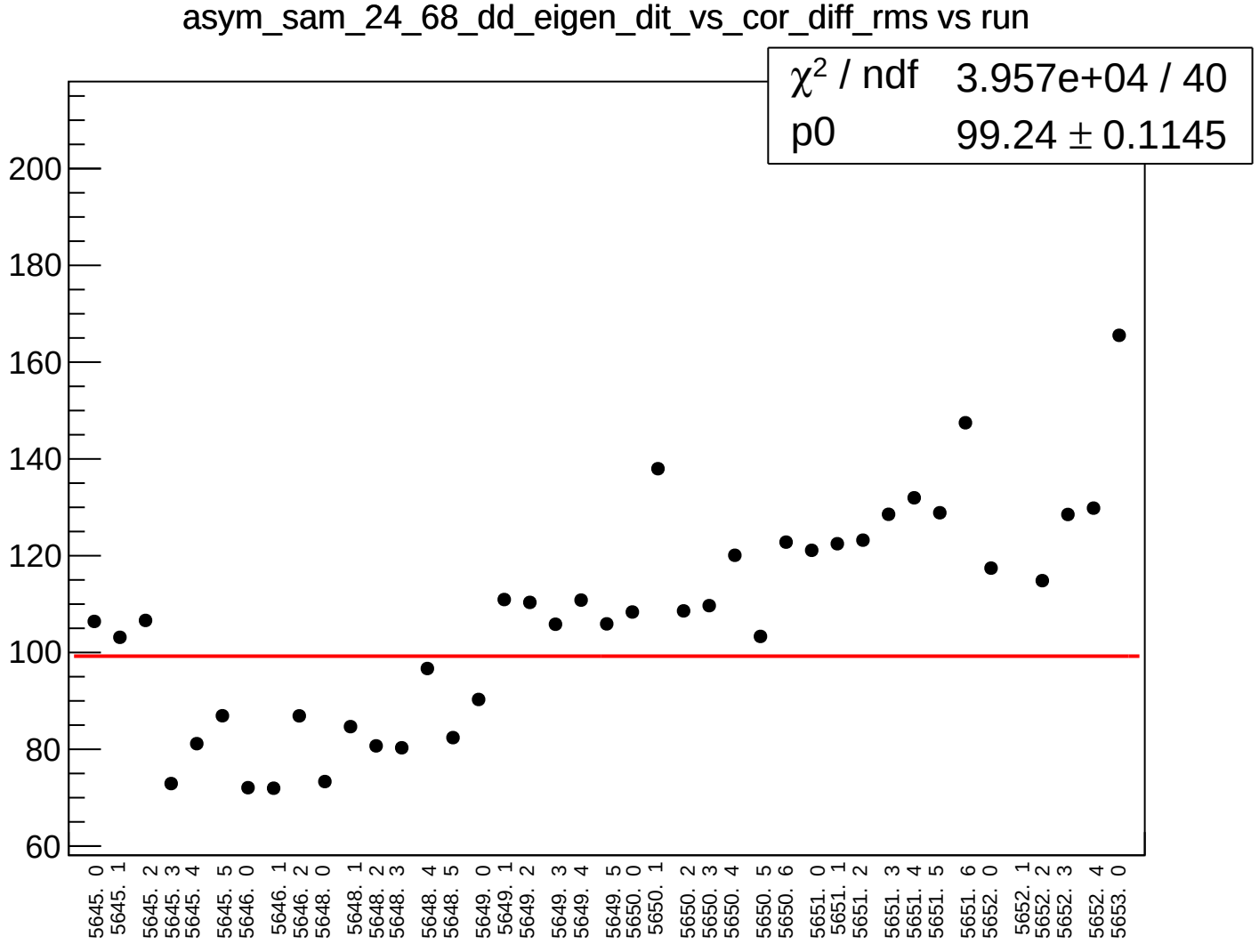

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.957e+04 / 40
p0 99.24 ± 0.1145
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

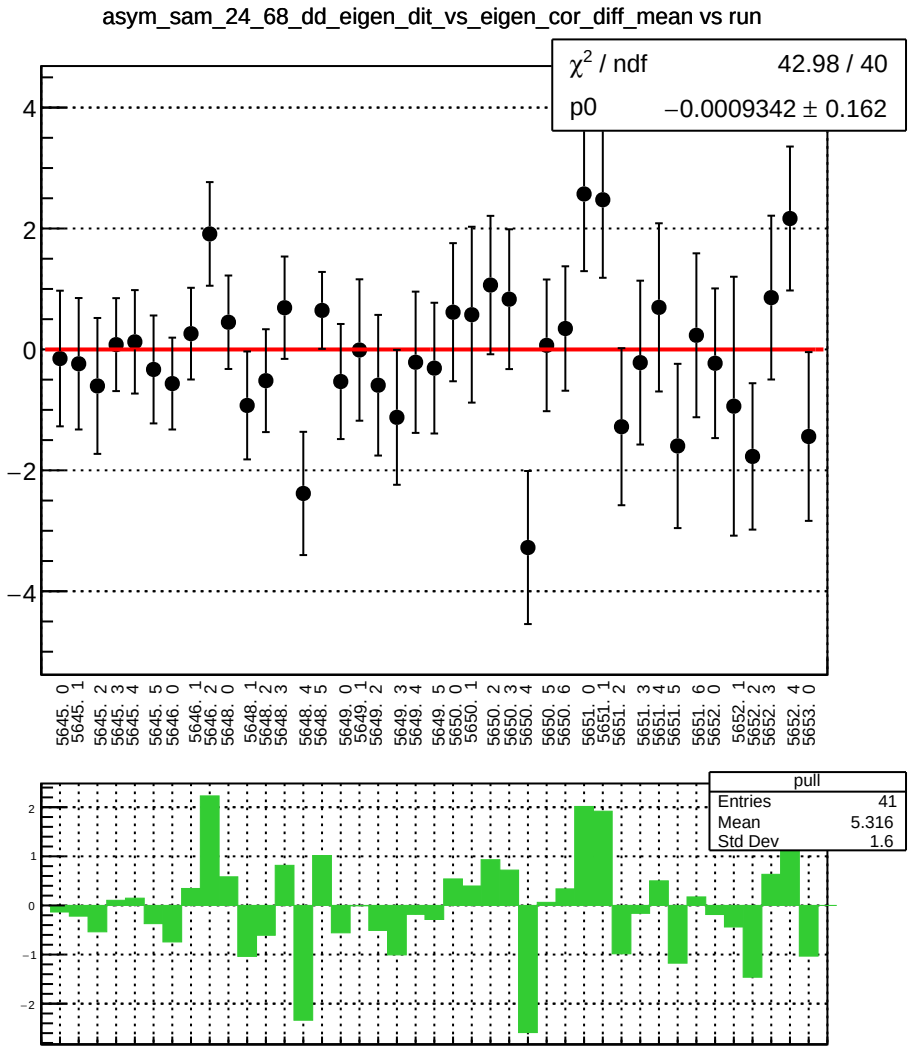

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 39.71 / 40
p0 −2.959e−06 ± 4.892e−06
0.1
0.05
0
−0.05
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.53
Std Dev 77.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.006311
Std Dev 0.9841
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

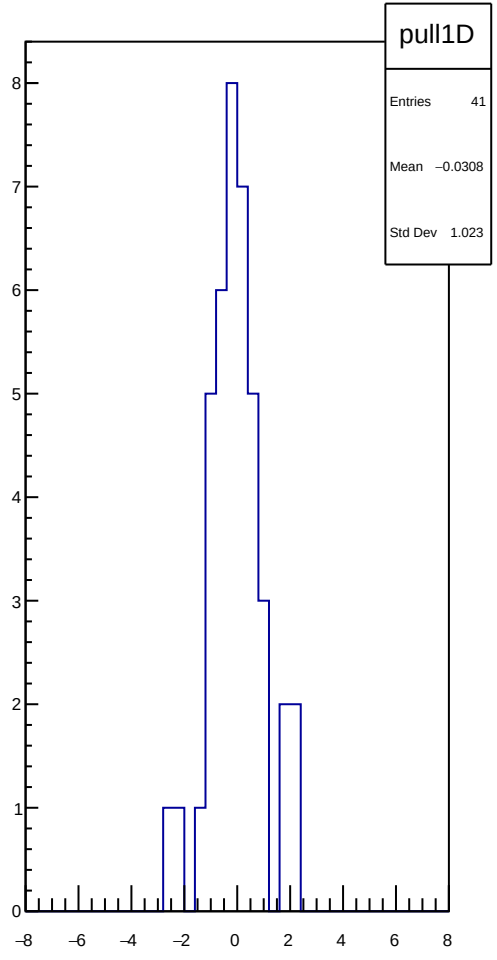

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2199 / 40
p0 0.003071 ± 3.459e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

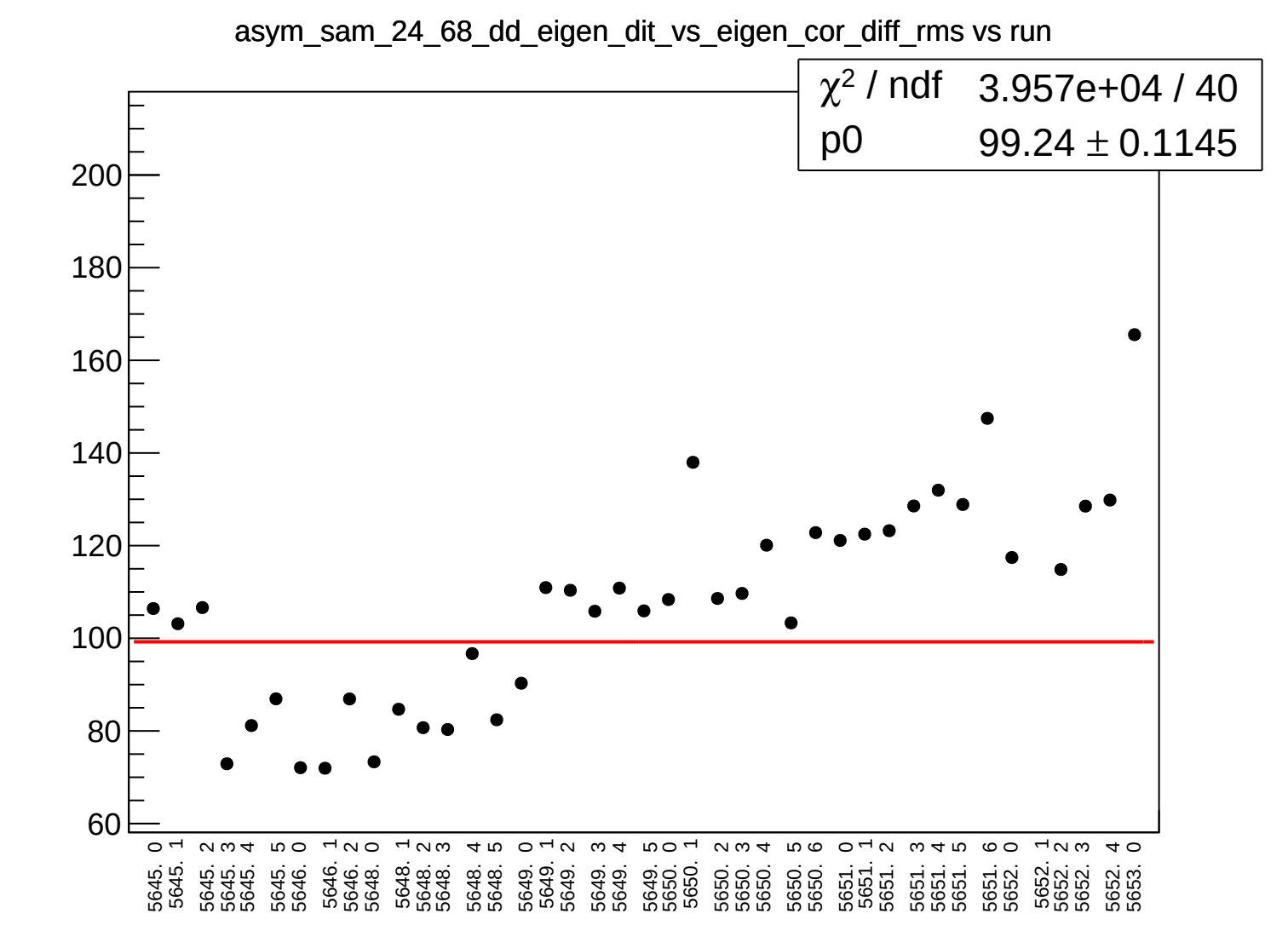

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.98 / 40
p0 −0.0009342 ± 0.162
pull
Entries 41
Mean 5.316
Std Dev 1.6

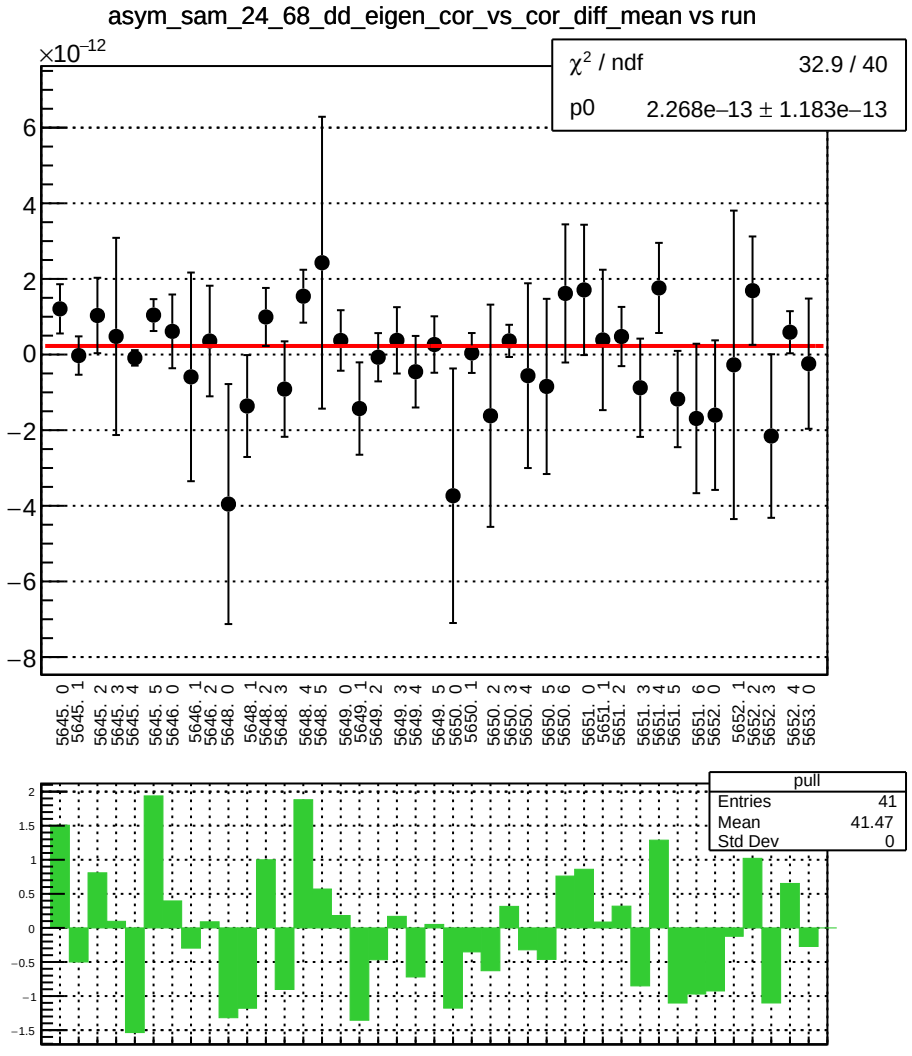

pull1D
Entries 41
Mean −0.0308
Std Dev 1.023

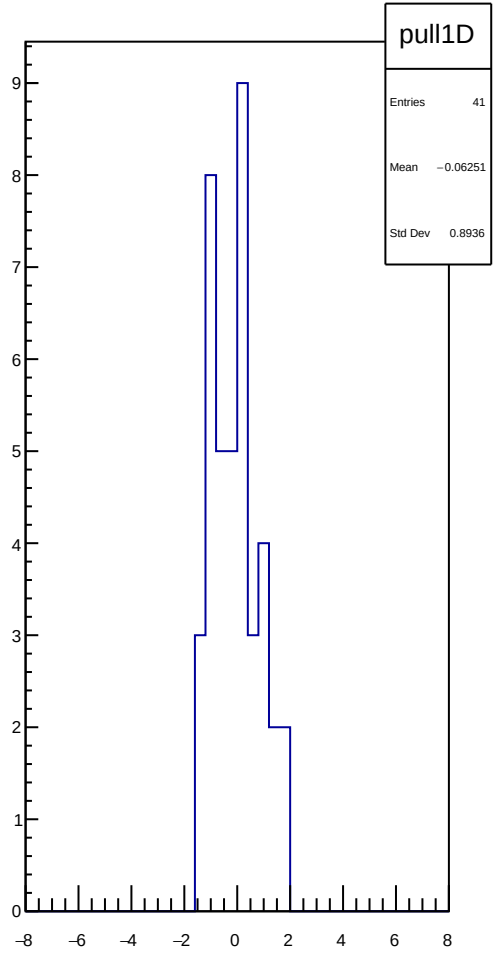

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.957e+04 / 40
p0 99.24 ± 0.1145
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

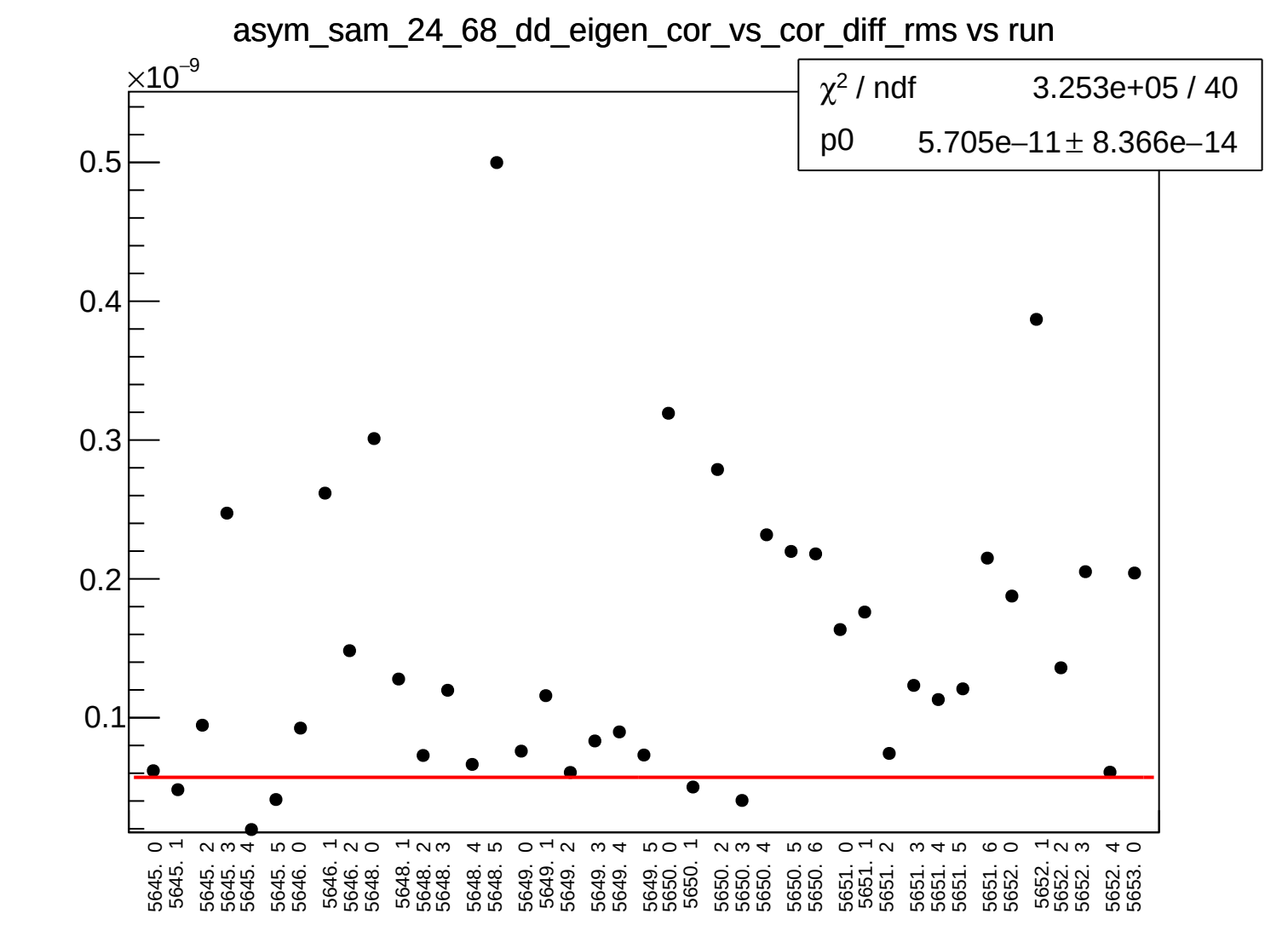

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.98 / 40
p0 −0.0009342 ± 0.162
pull
Entries 41
Mean 5.316
Std Dev 1.6

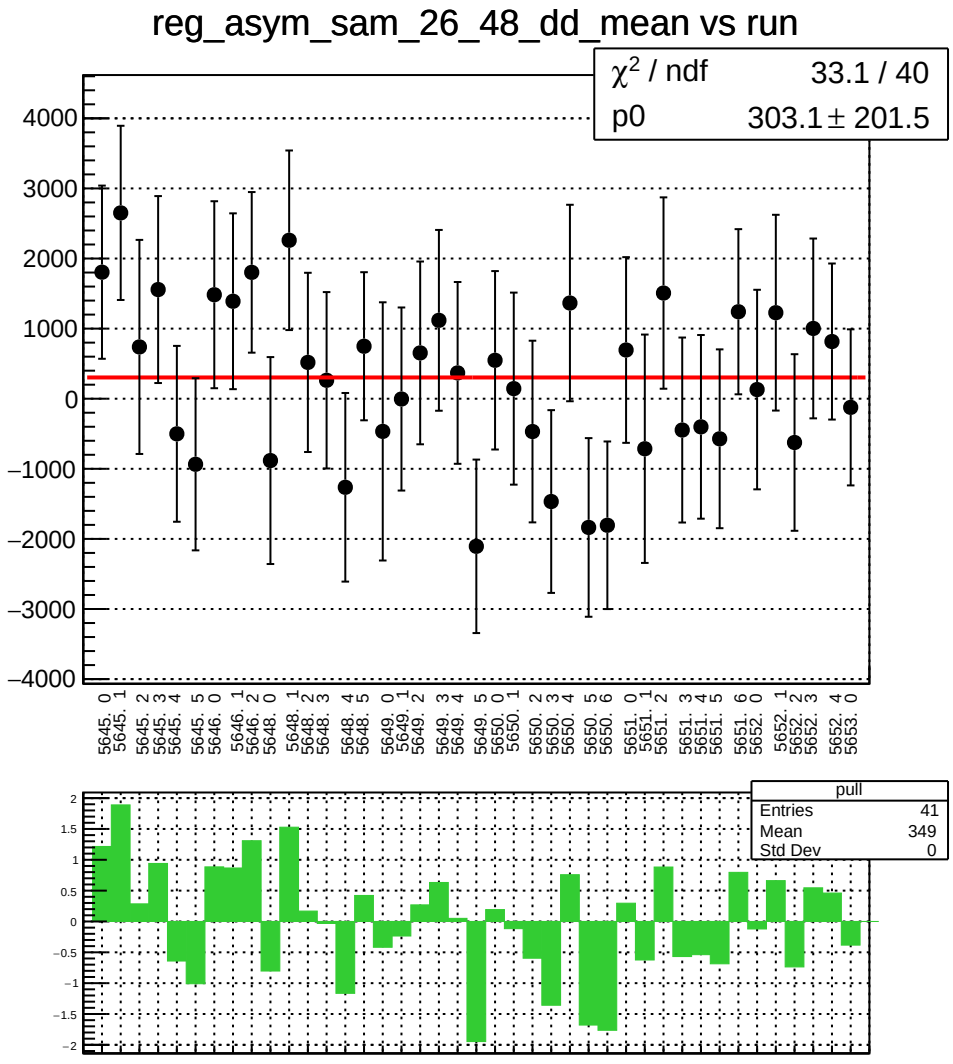

pull1D
Entries 41
Mean −0.0308
Std Dev 1.023

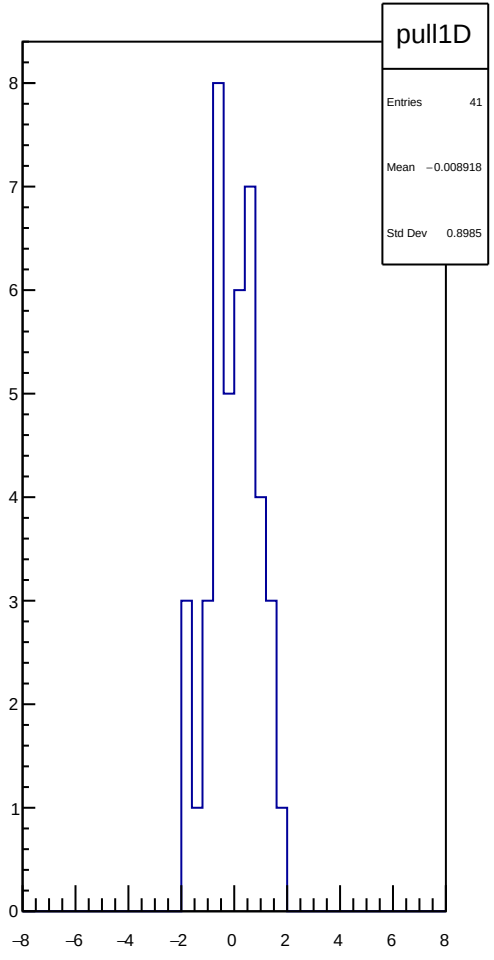

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.957e+04 / 40
p0 99.24 ± 0.1145
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

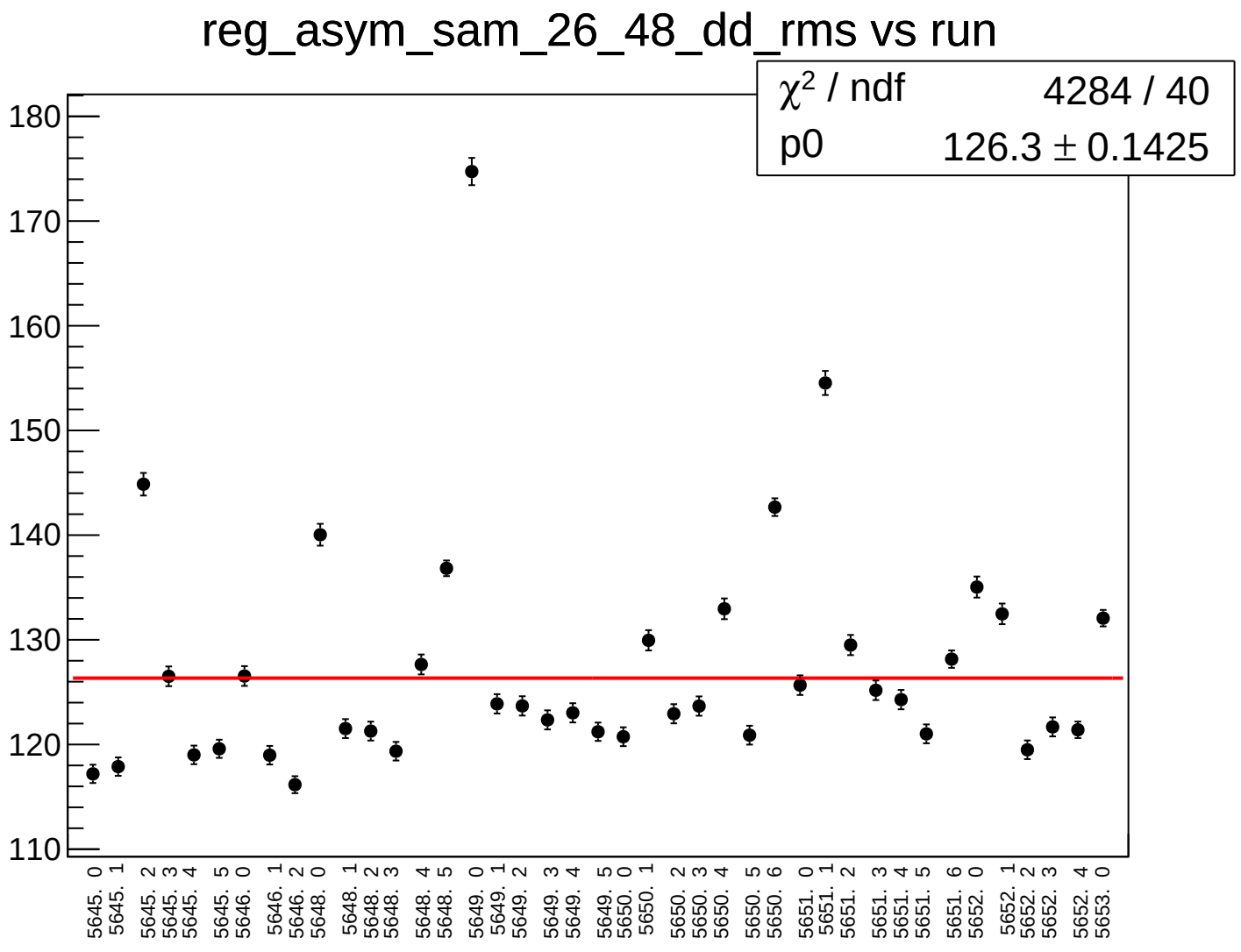

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.9 / 40
p0 2.268e−13 ± 1.183e−13
pull
Entries 41
Mean 41.47
Std Dev 0

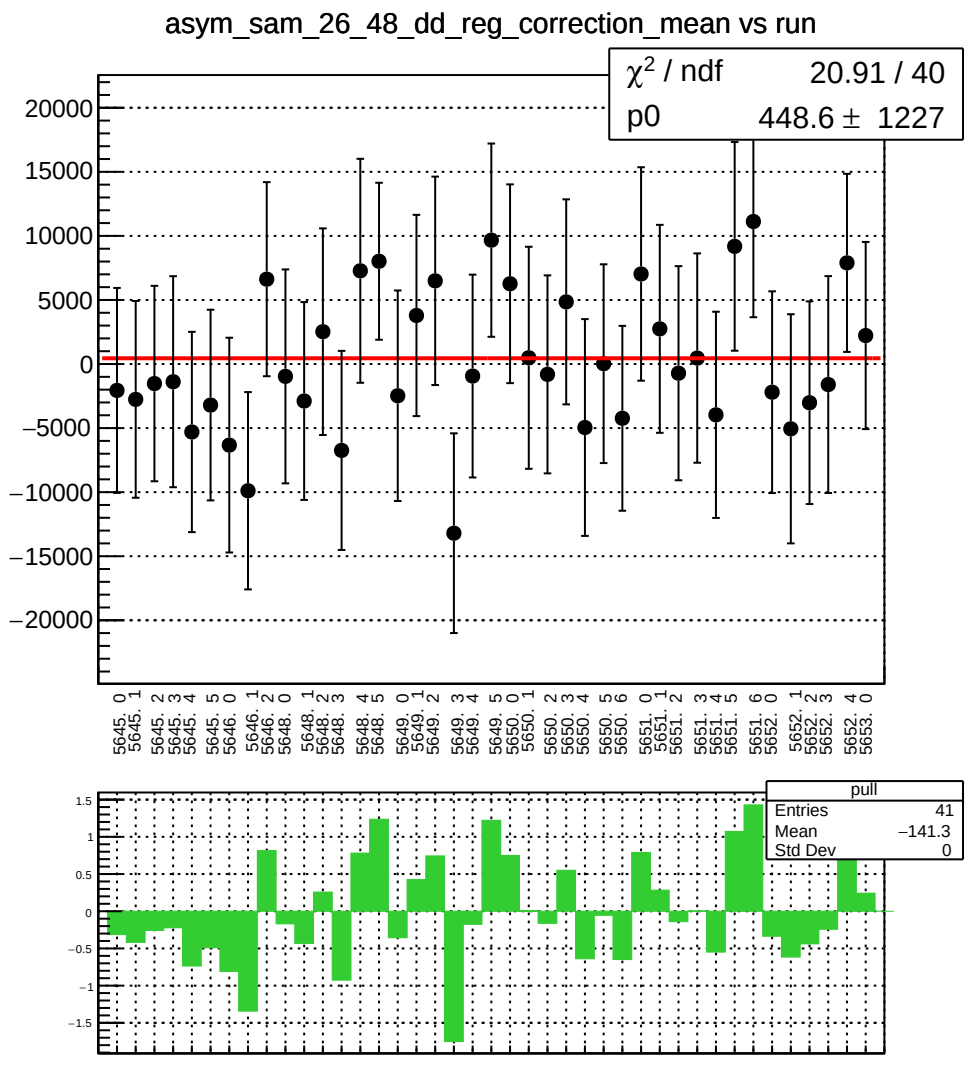

pull1D
Entries 41
Mean −0.06251
Std Dev 0.8936

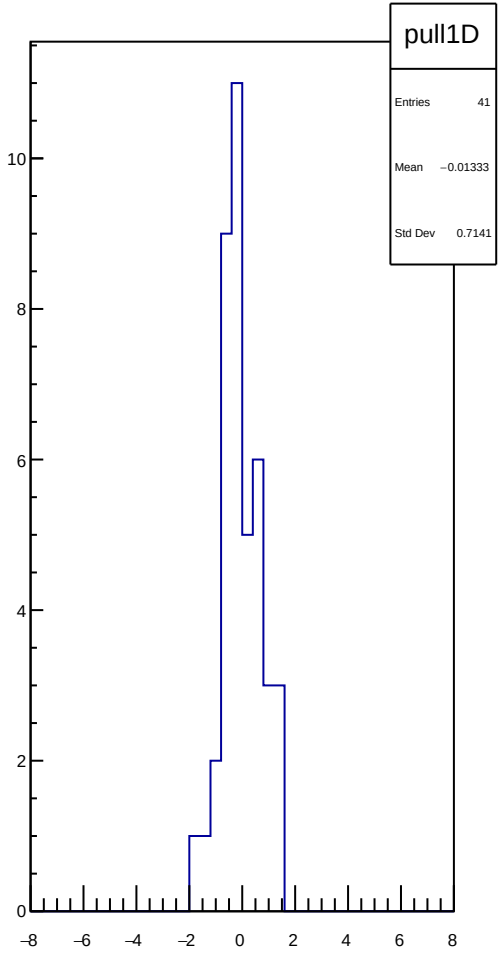

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.253e+05 / 40
p0 5.705e−11 ± 8.366e−14
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

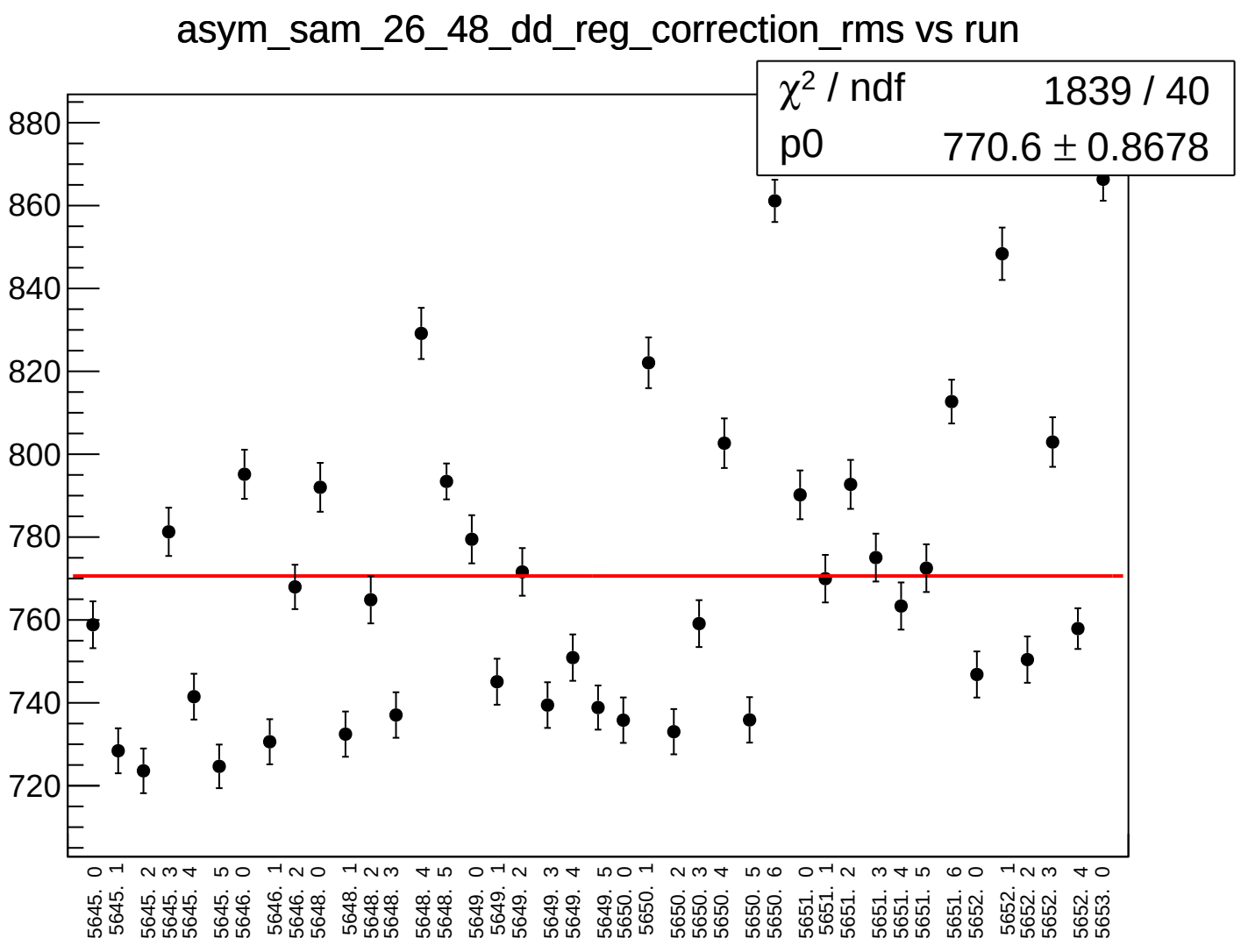

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 33.1 / 40
p0 303.1 ± 201.5
pull
Entries 41
Mean 349
Std Dev 0

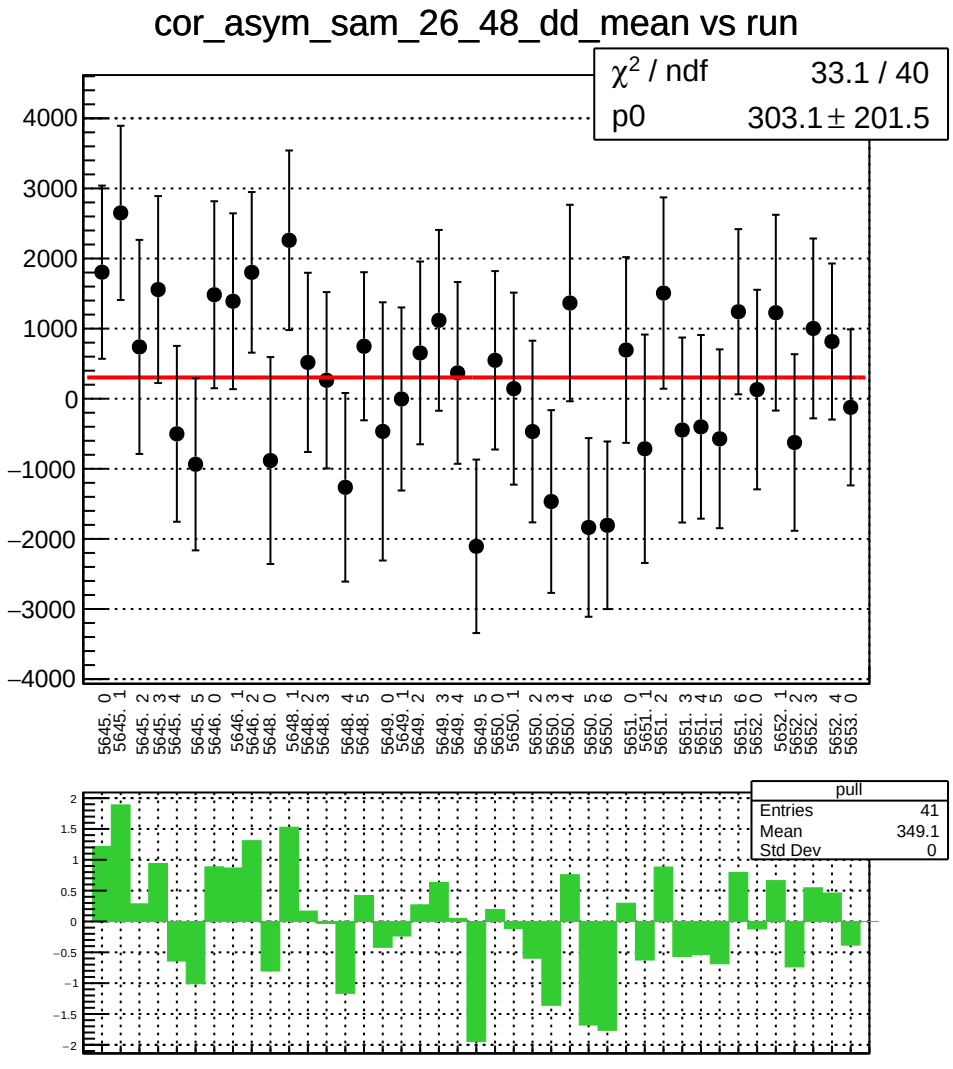

pull1D
Entries 41
Mean −0.008918
Std Dev 0.8985

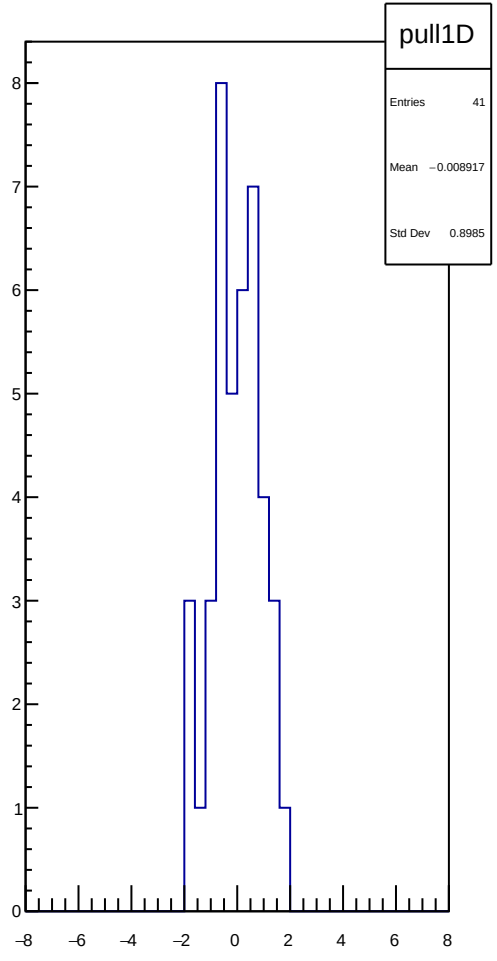

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4284 / 40
p0 126.3 ± 0.1425
180
170
160
150
140
130
120
110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

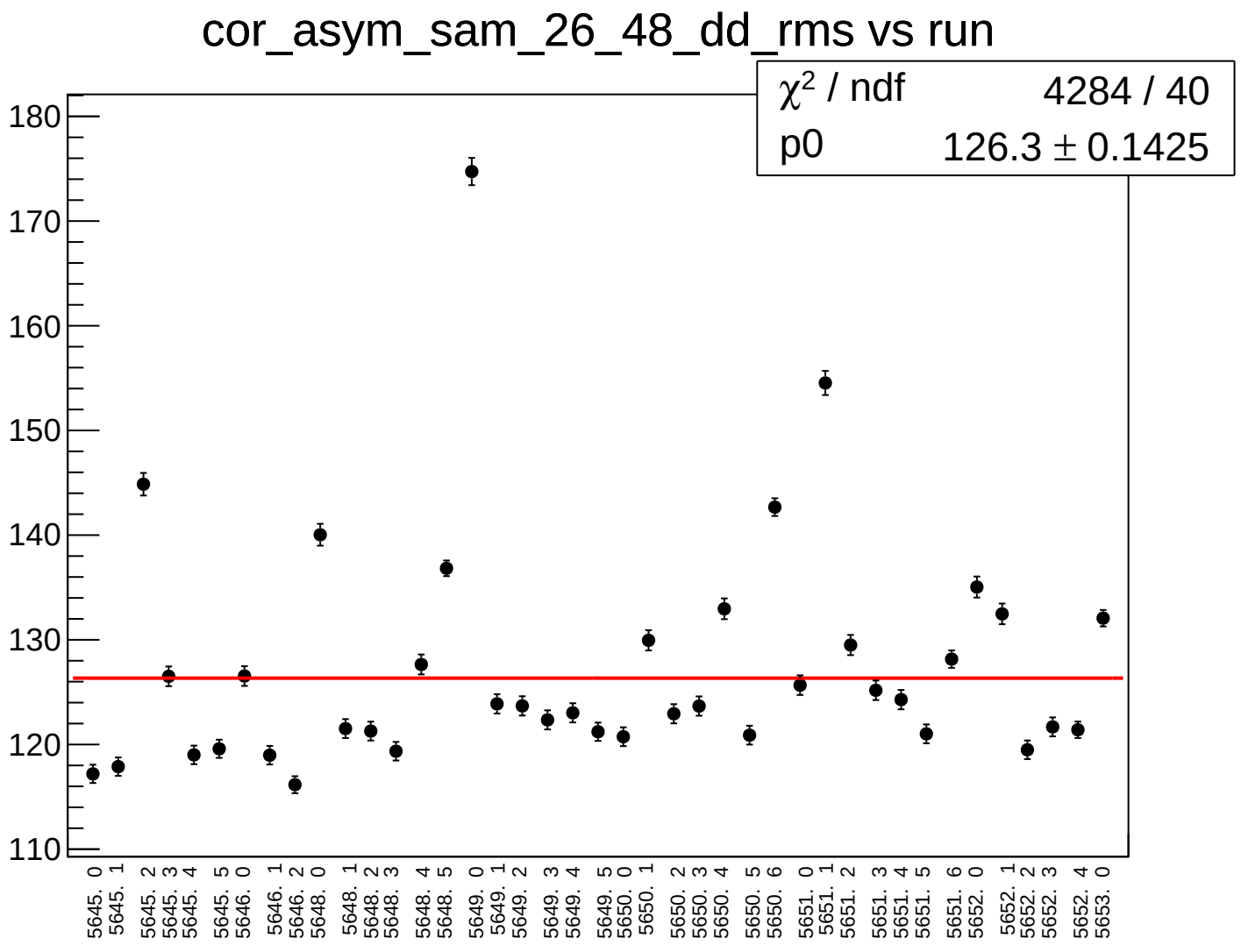

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 20.91 / 40
p0 448.6 ± 1227
pull
Entries 41
Mean −141.3
Std Dev 0

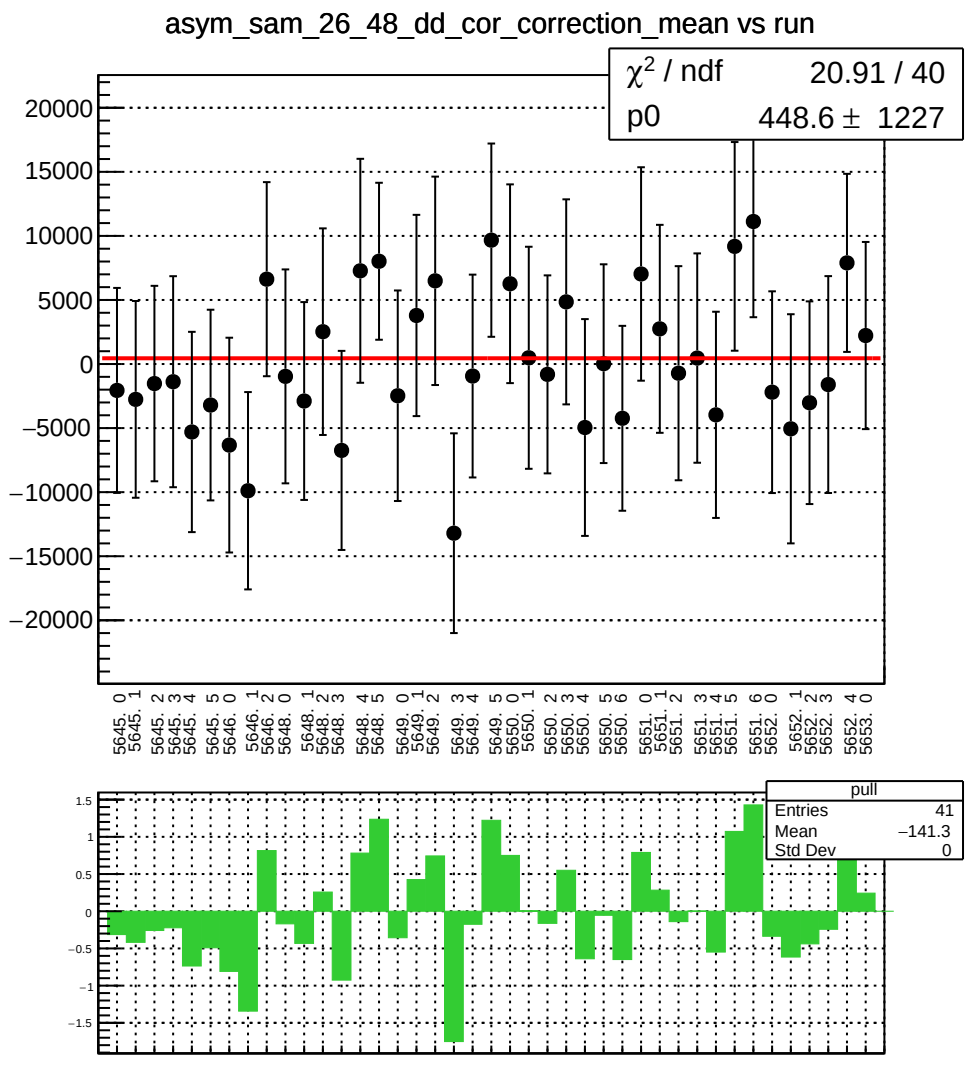

pull1D
Entries 41
Mean −0.01333
Std Dev 0.7141

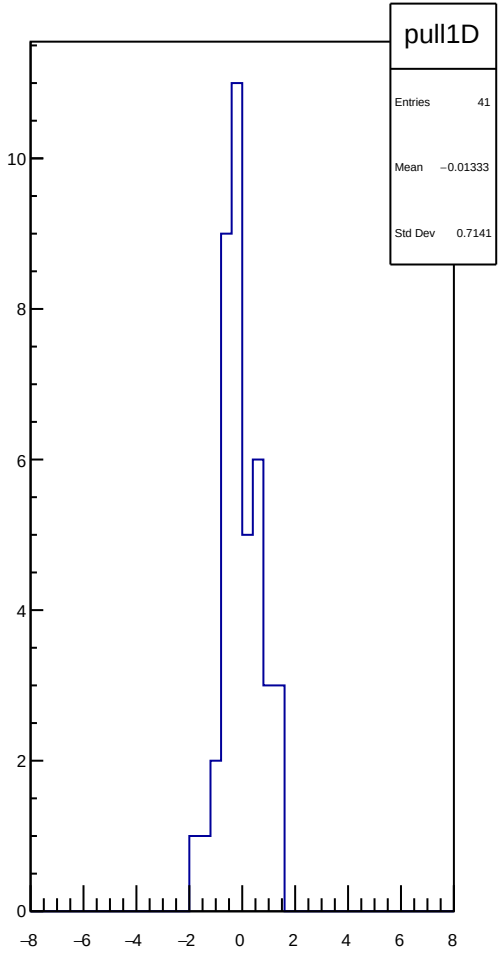

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1839 / 40
p0 770.6 ± 0.8678
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

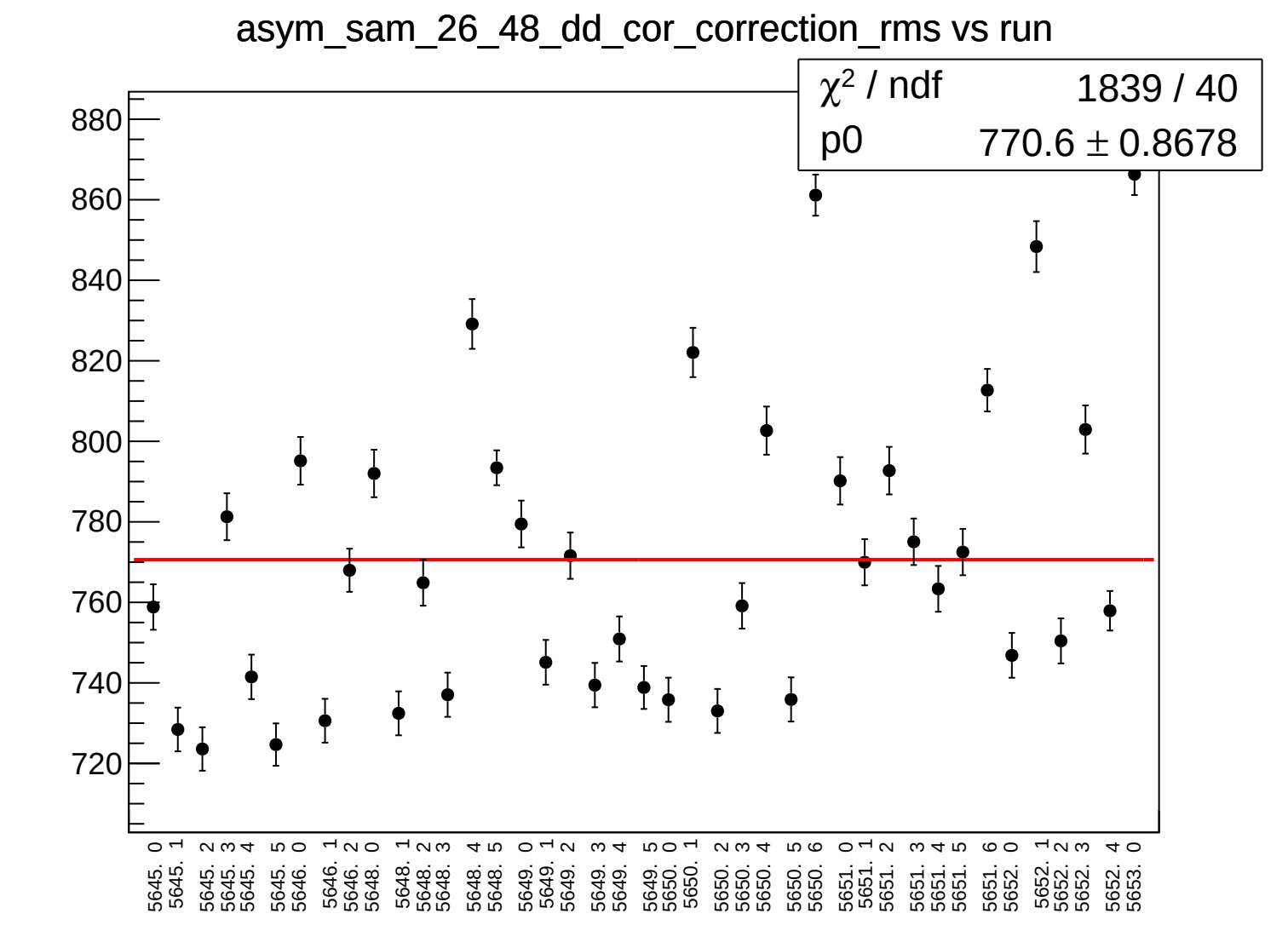

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 33.1 / 40
p0 303.1 ± 201.5
pull
Entries 41
Mean 349.1
Std Dev 0

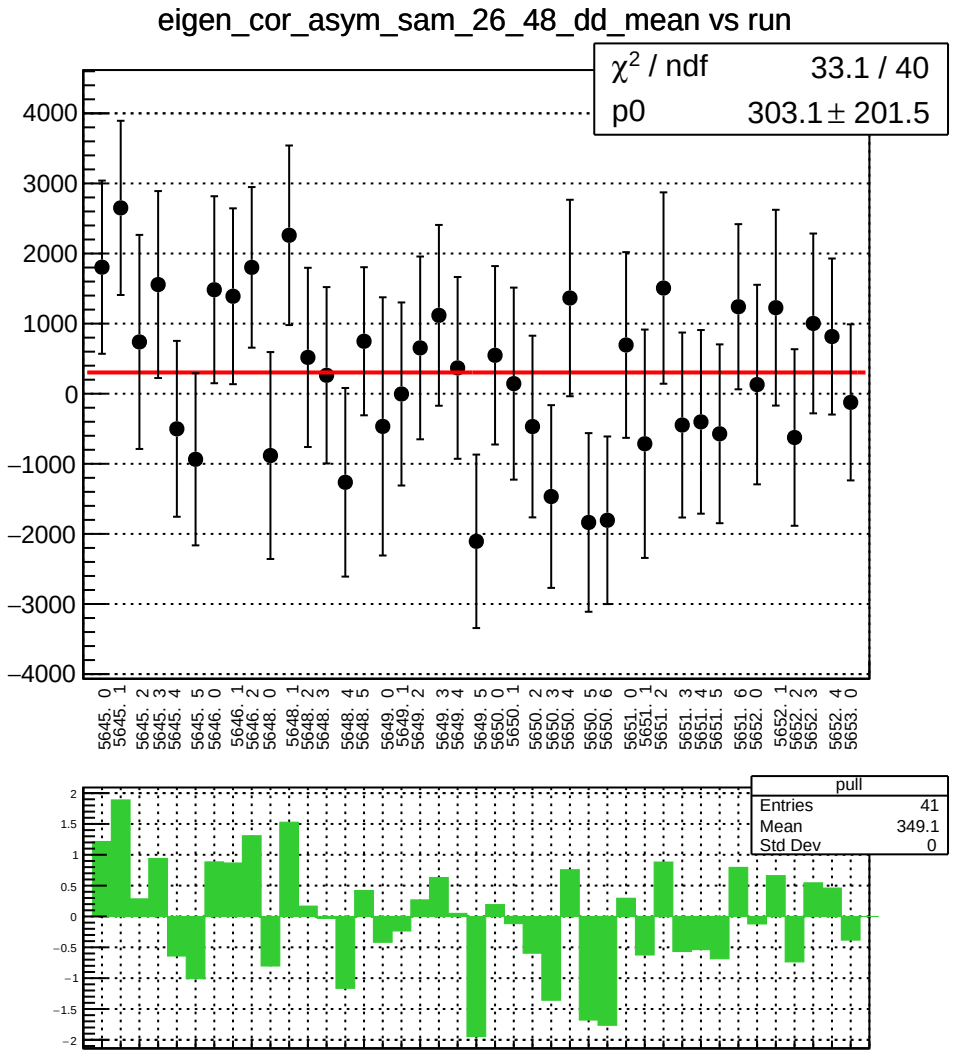

pull1D
Entries 41
Mean −0.008917
Std Dev 0.8985

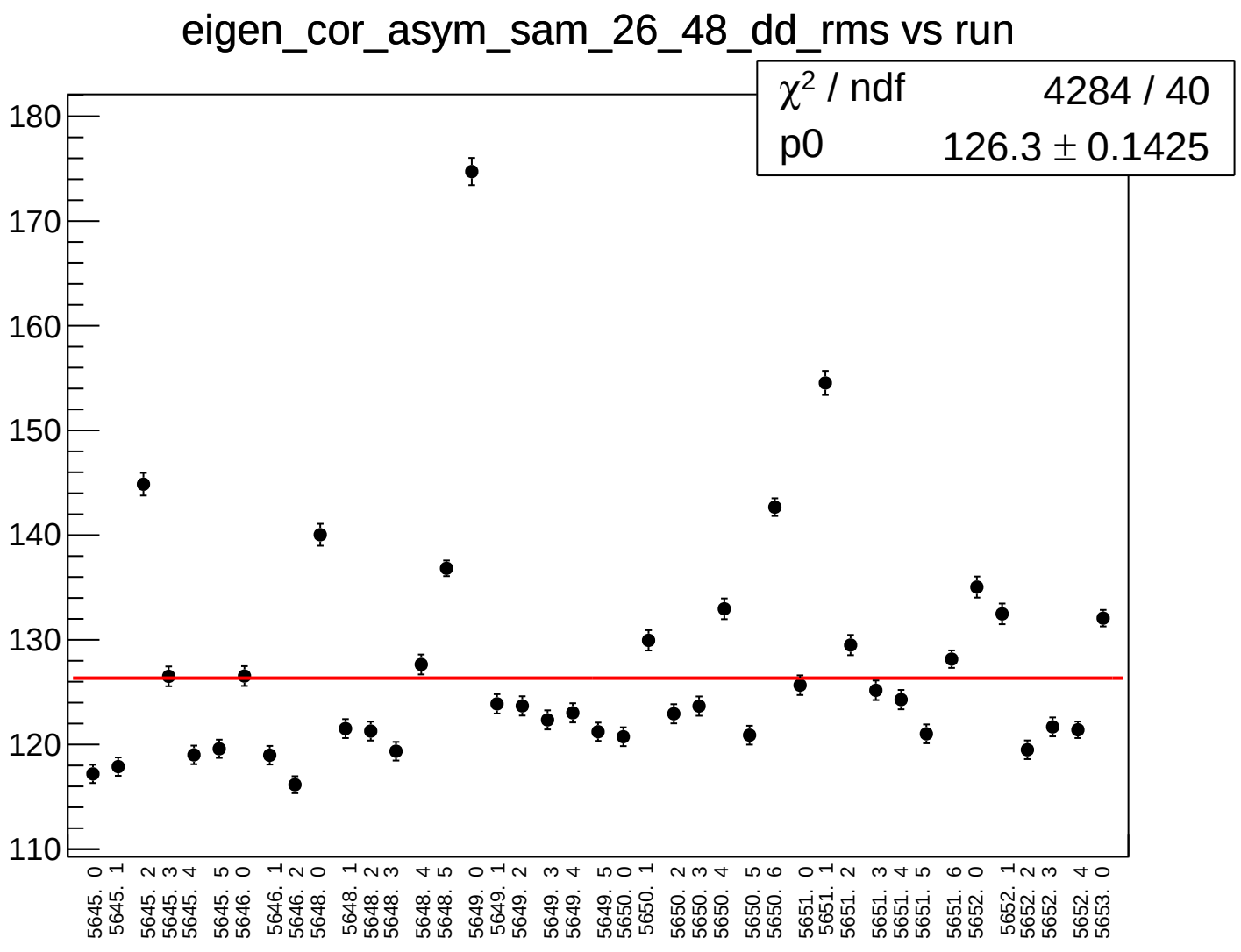

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4284 / 40
p0 126.3 ± 0.1425
180
170
160
150
140
130
120
110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

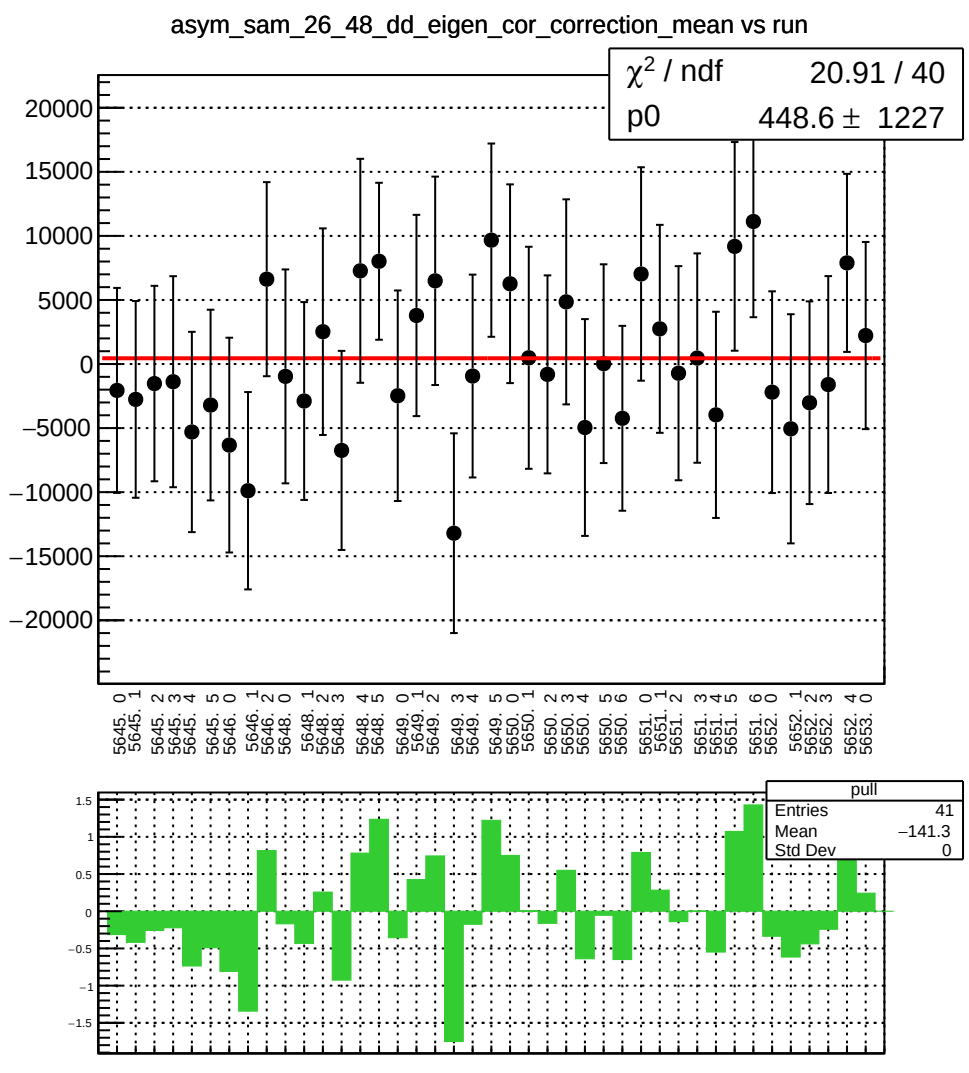

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 20.91 / 40
p0 448.6 ± 1227
pull
Entries 41
Mean −141.3
Std Dev 0

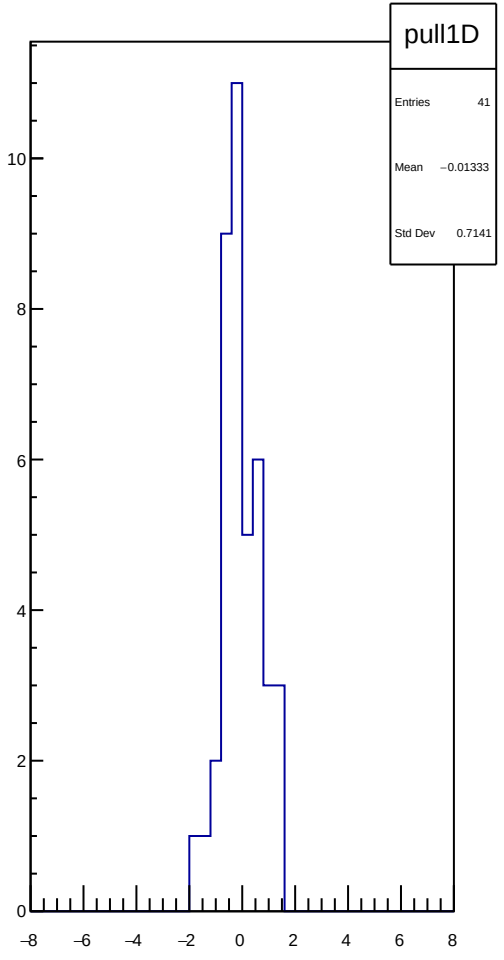

pull1D
Entries 41
Mean −0.01333
Std Dev 0.7141

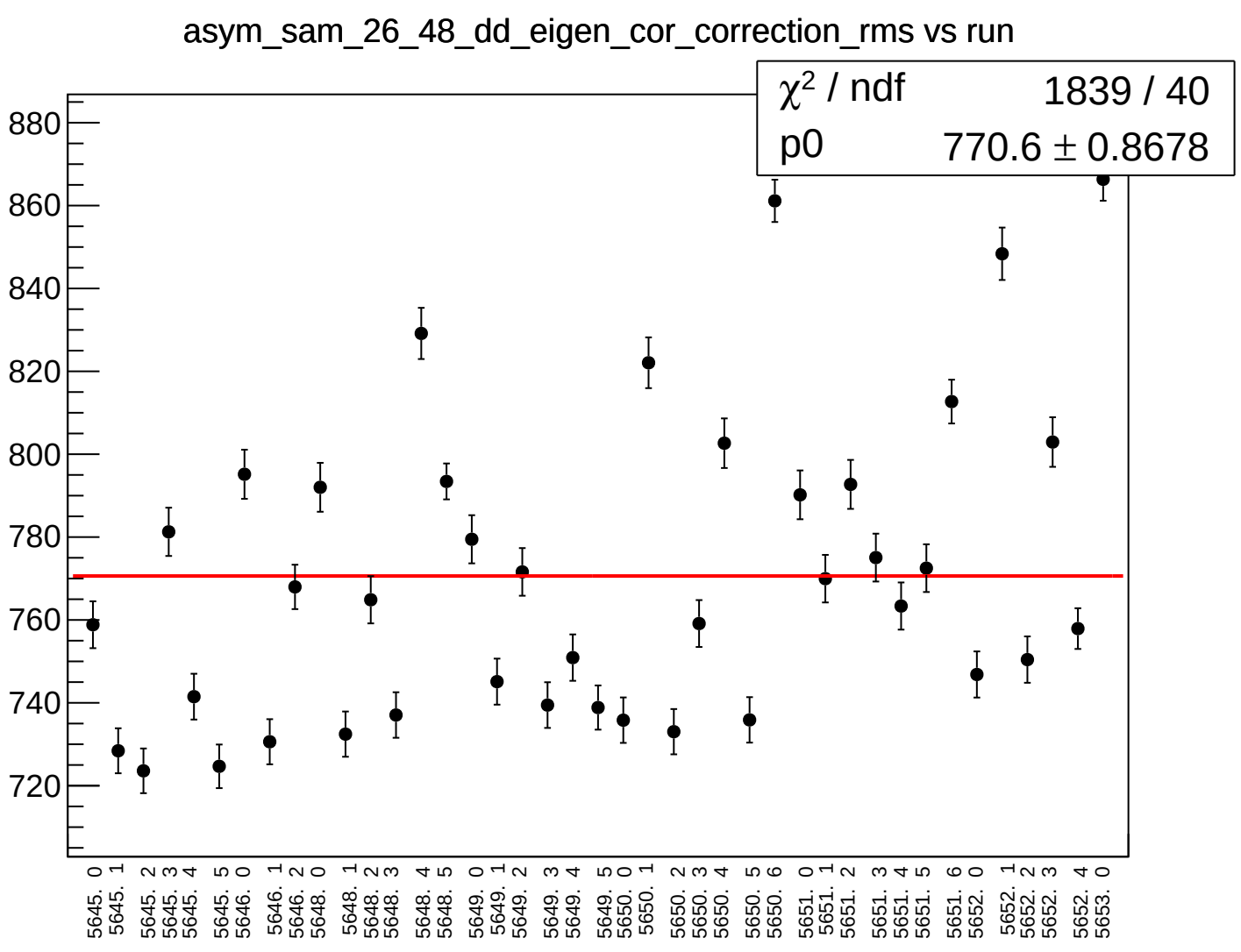

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1839 / 40
p0 770.6 ± 0.8678
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

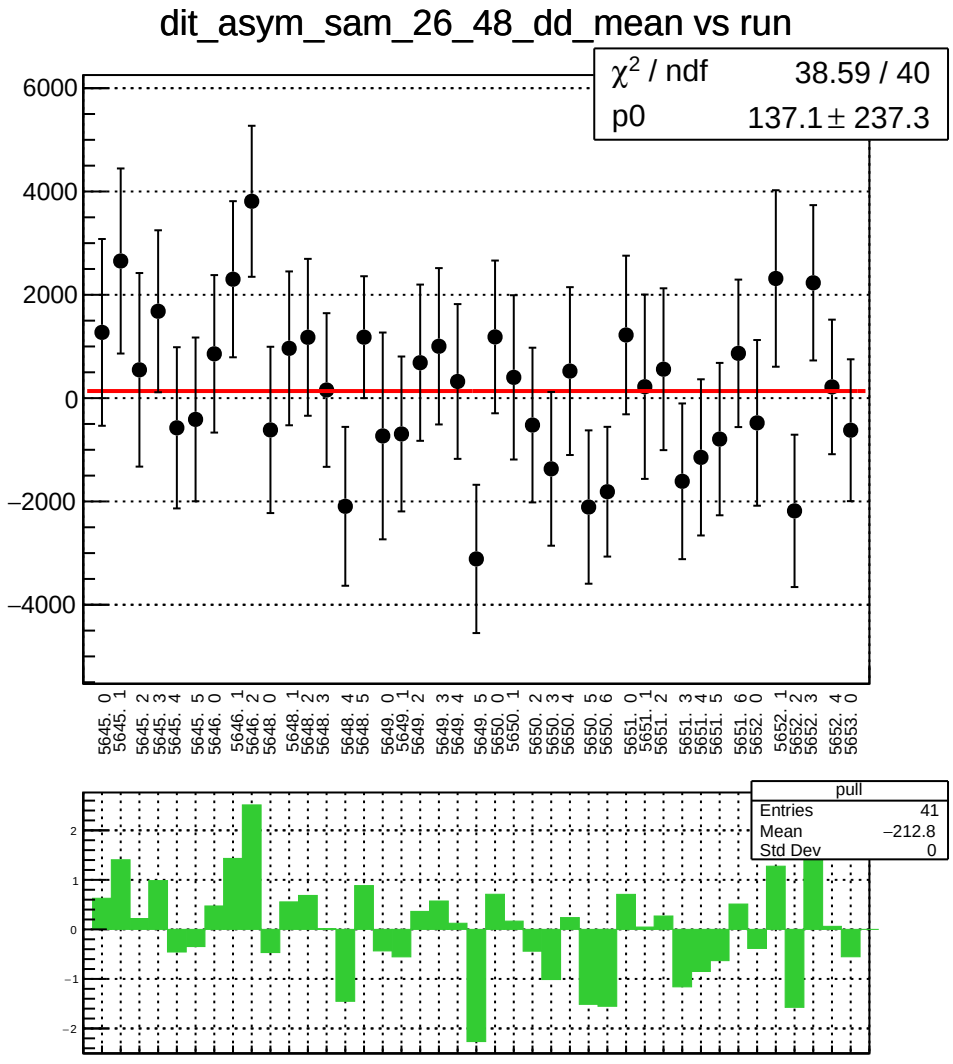

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 33.1 / 40
p0 303.1 ± 201.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 349.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.008917
Std Dev 0.8985
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

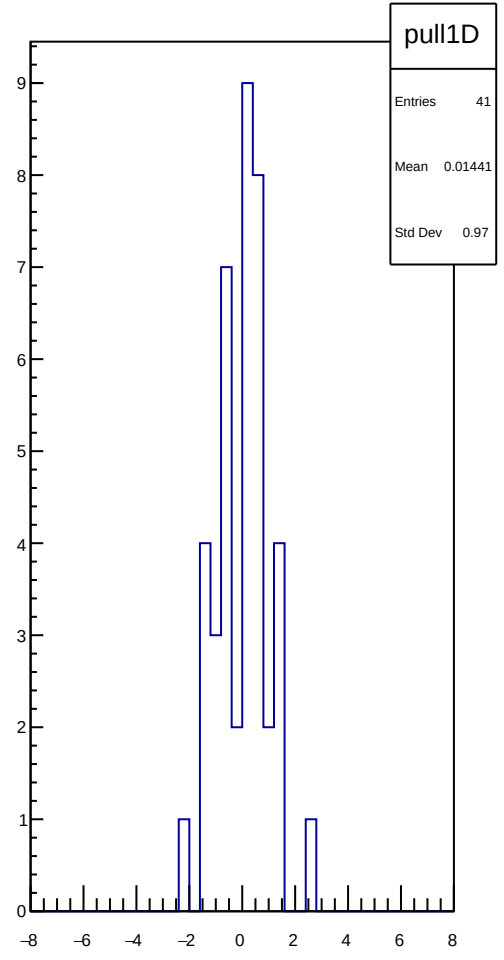

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4284 / 40
p0 126.3 ± 0.1425
180
170
160
150
140
130
120
110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

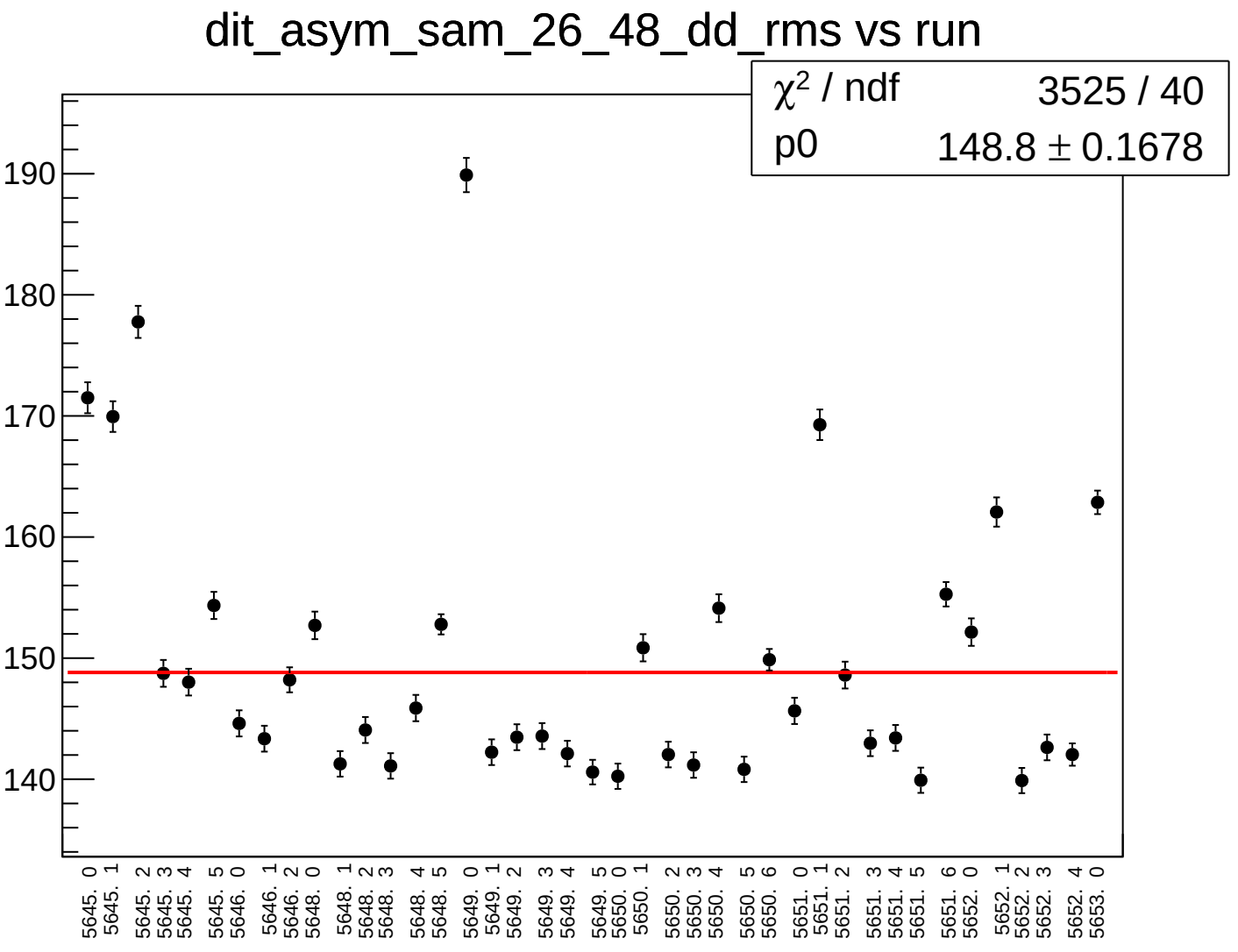

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 20.91 / 40
p0 448.6 ± 1227
pull
Entries 41
Mean −141.3
Std Dev 0

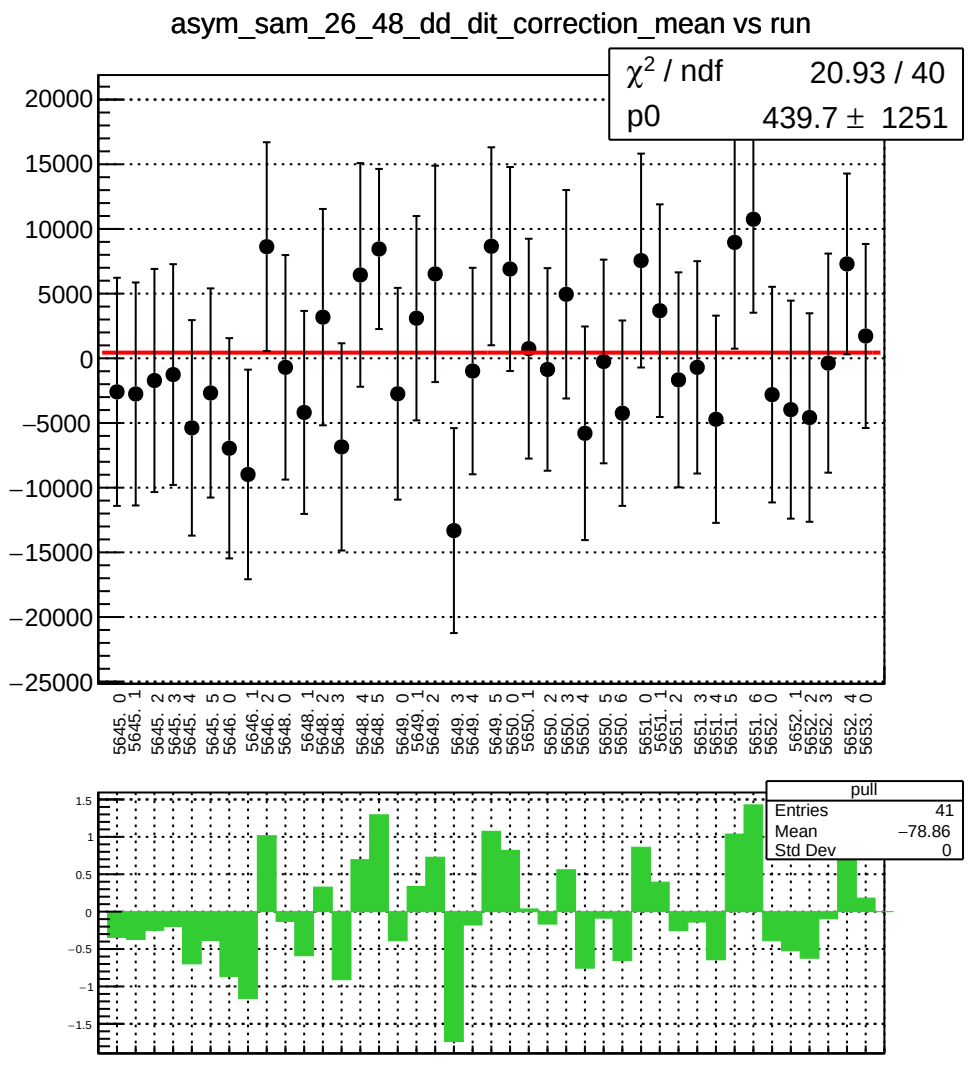

pull1D
Entries 41
Mean −0.01333
Std Dev 0.7141

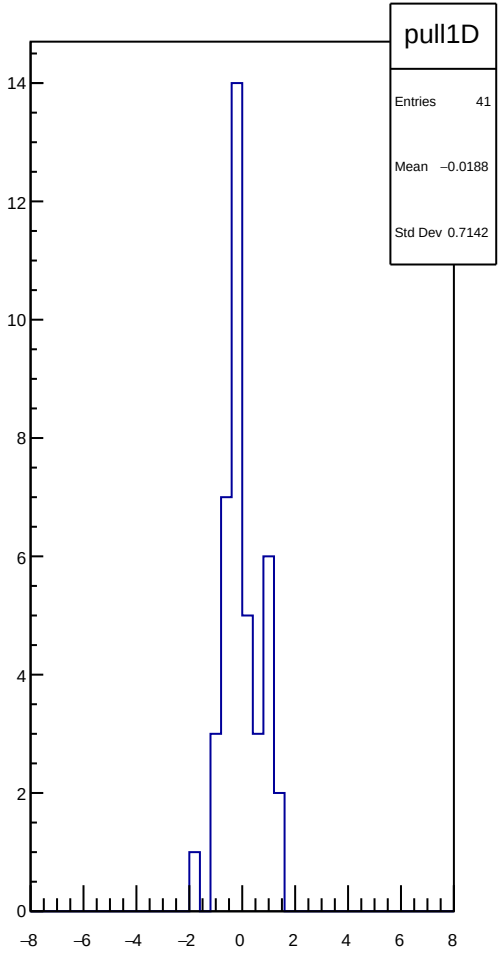

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1839 / 40
p0 770.6 ± 0.8678
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

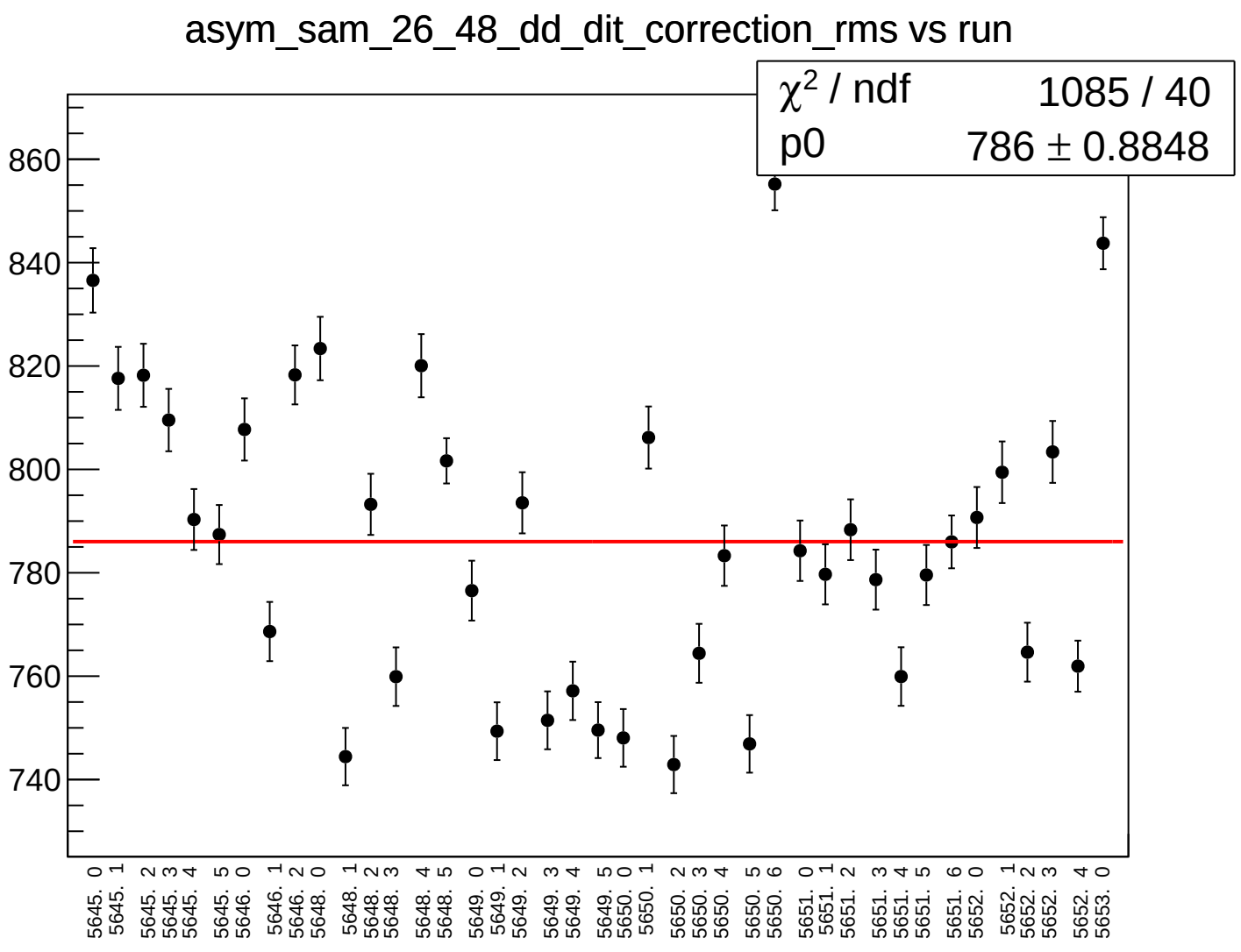

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 38.59 / 40
p0 137.1 ± 237.3
6000
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −212.8
Std Dev 0
2
1
0
−1
−2

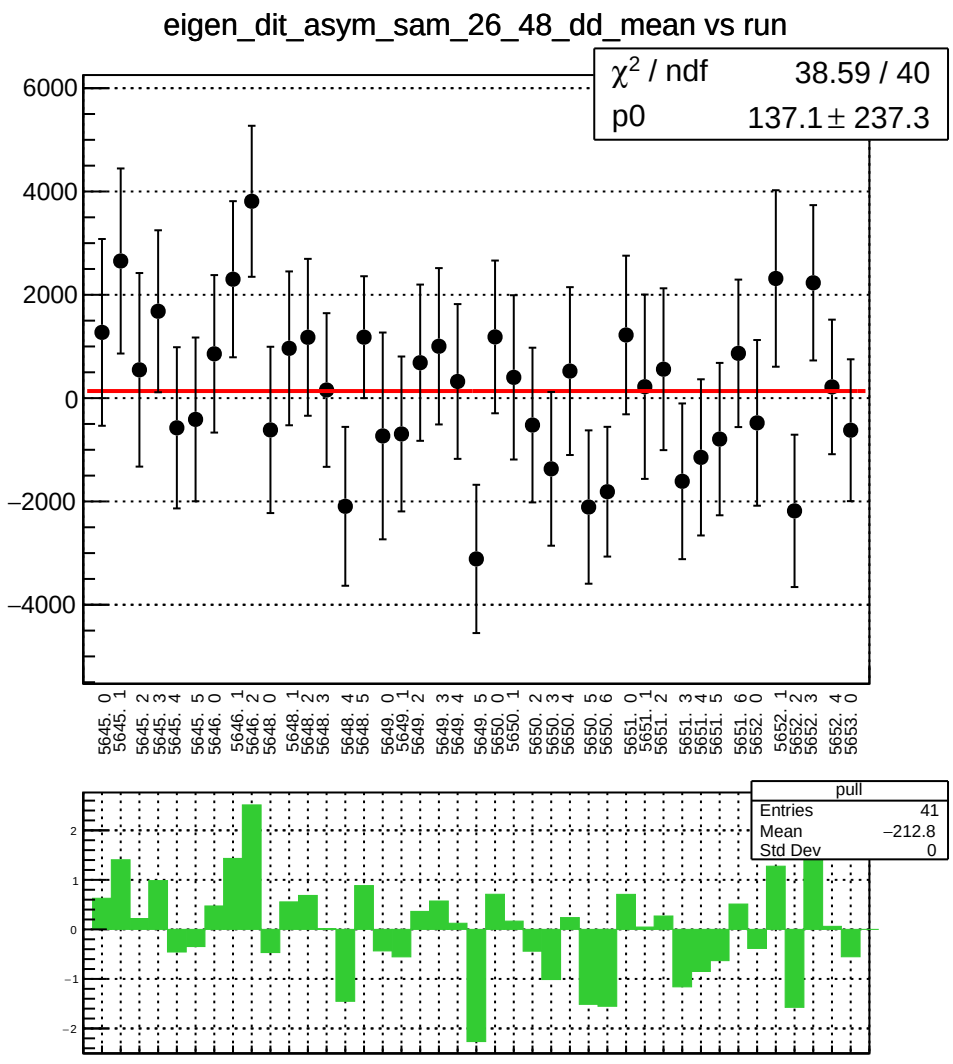

pull1D
Entries 41
Mean 0.01441
Std Dev 0.97
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

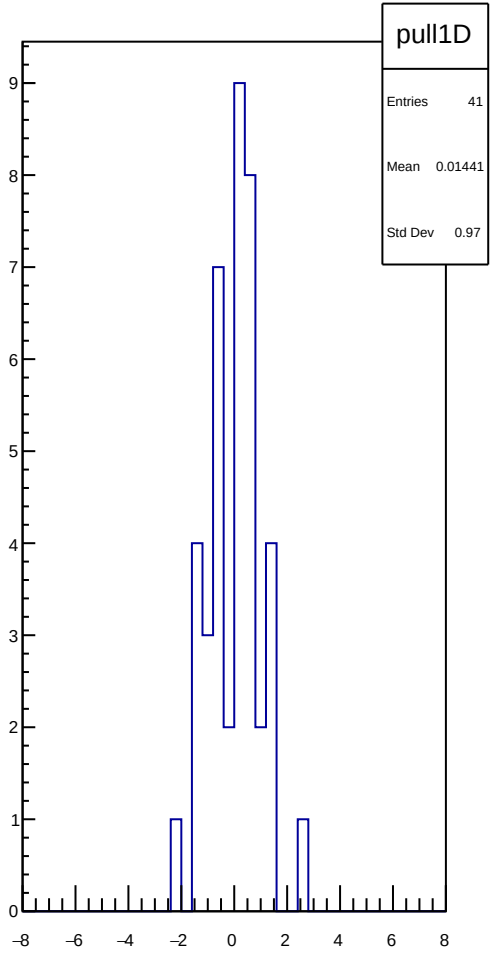

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3525 / 40
p0 148.8 ± 0.1678
190
180
170
160
150
140
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

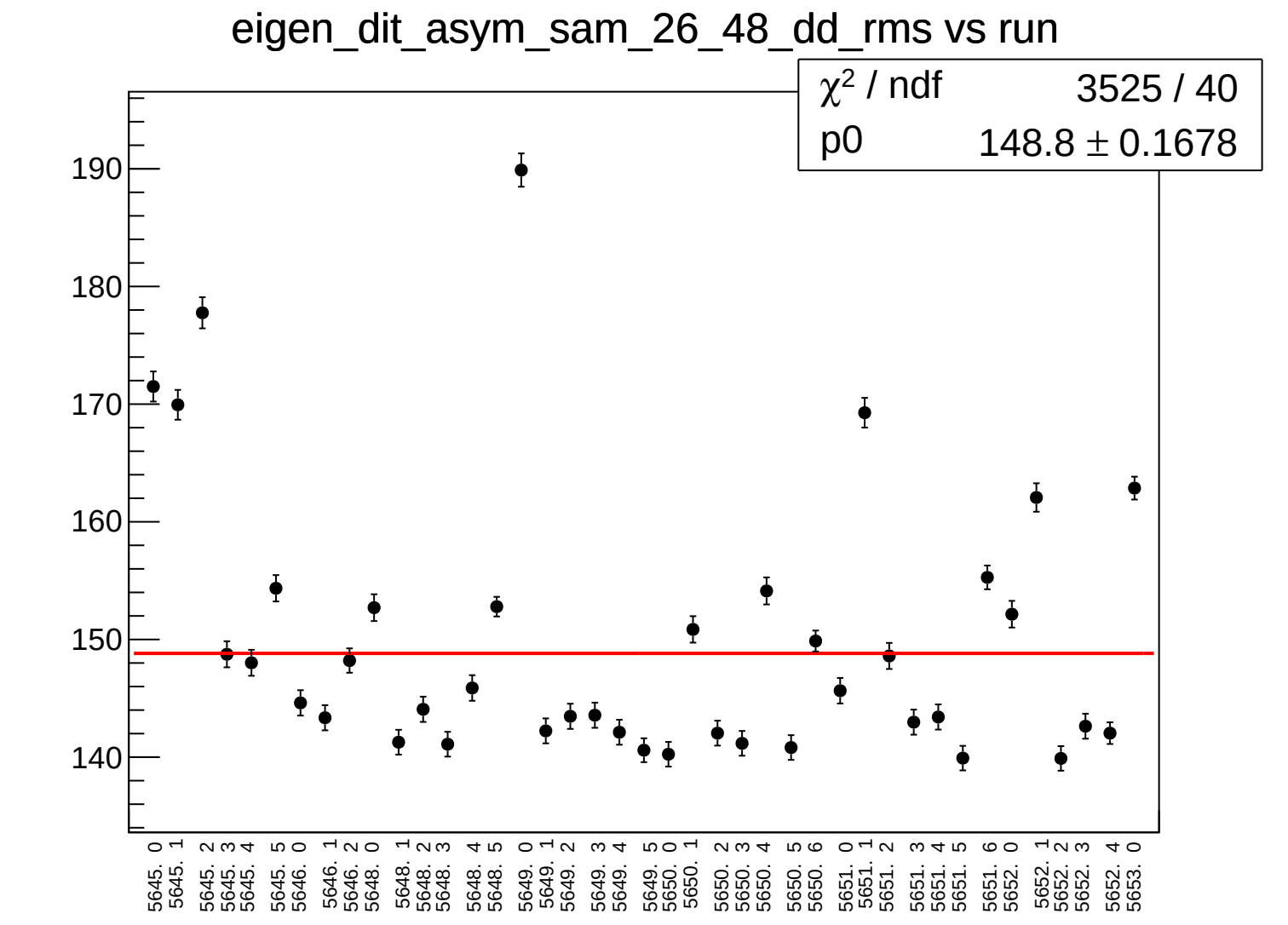

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 20.93 / 40
p0 439.7 ± 1251
pull
Entries 41
Mean −78.86
Std Dev 0

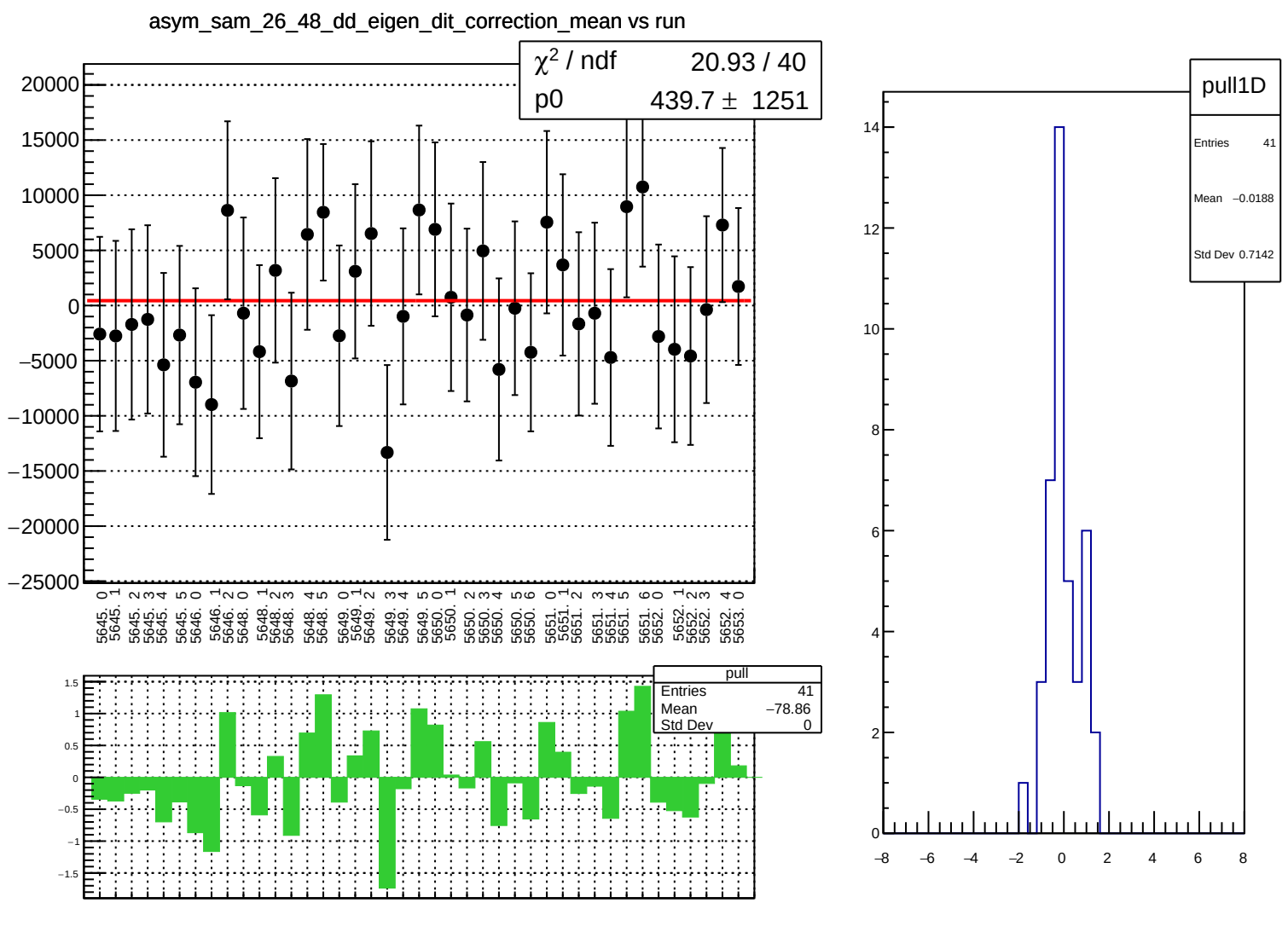

pull1D
Entries 41
Mean −0.0188
Std Dev 0.7142

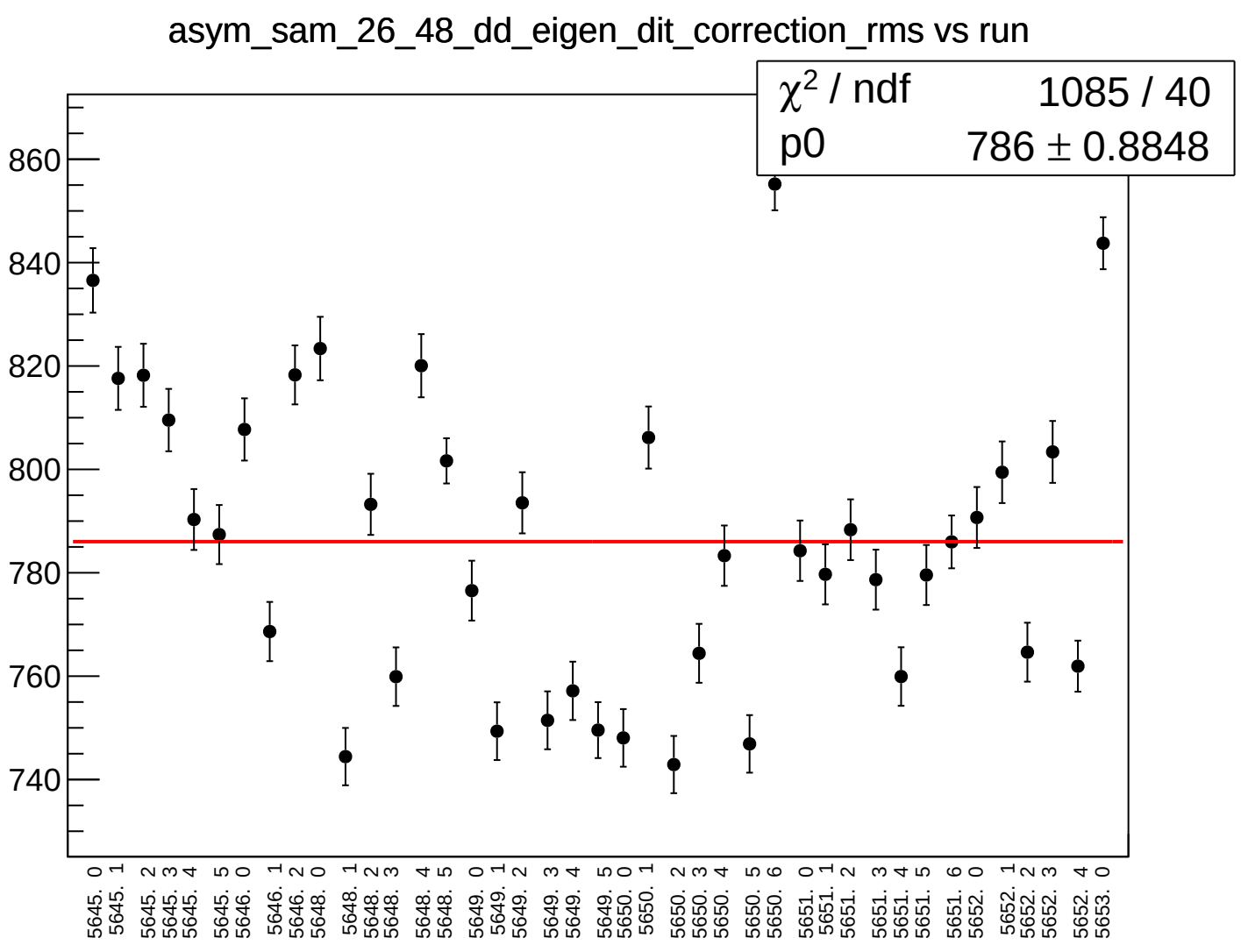

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1085 / 40
p0 786 ± 0.8848
860
840
820
800
780
760
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

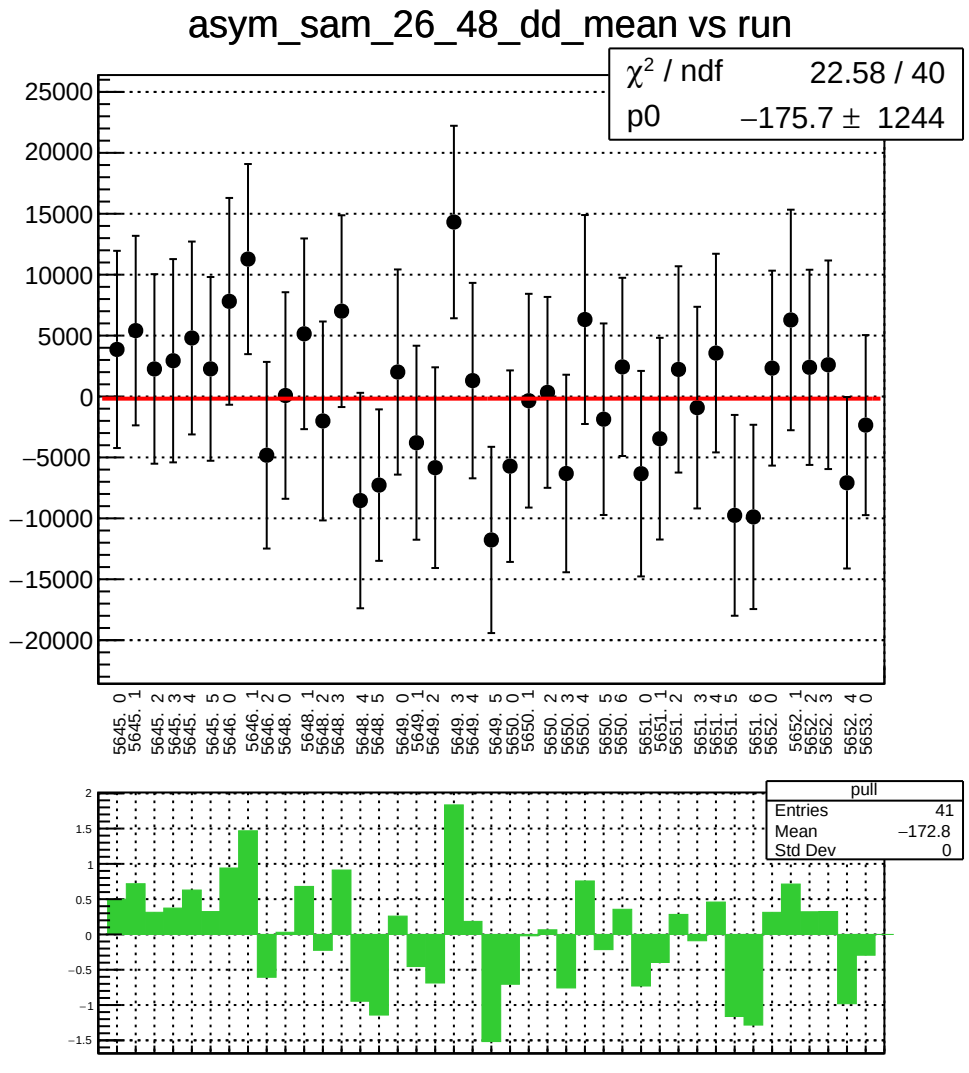

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 38.59 / 40
p0 137.1 ± 237.3
6000
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −212.8
Std Dev 0
2
1
0
−1
−2

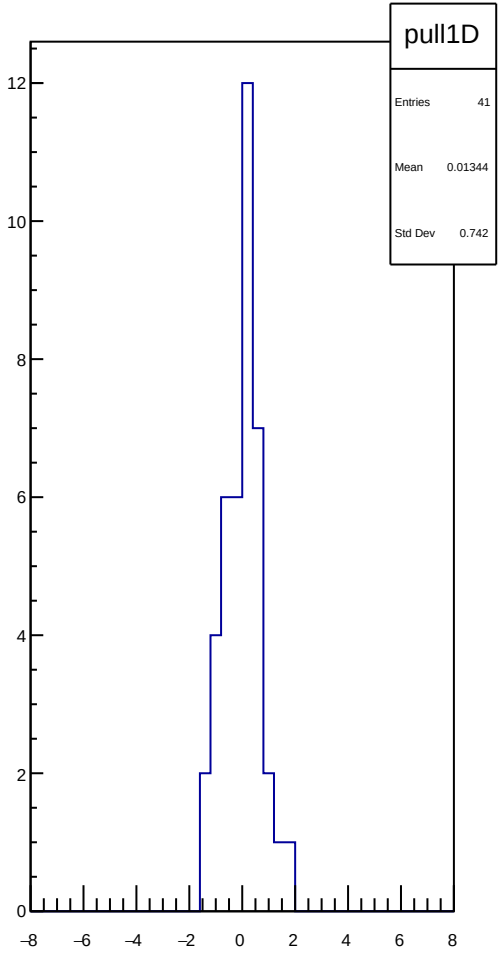

pull1D
Entries 41
Mean 0.01441
Std Dev 0.97
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

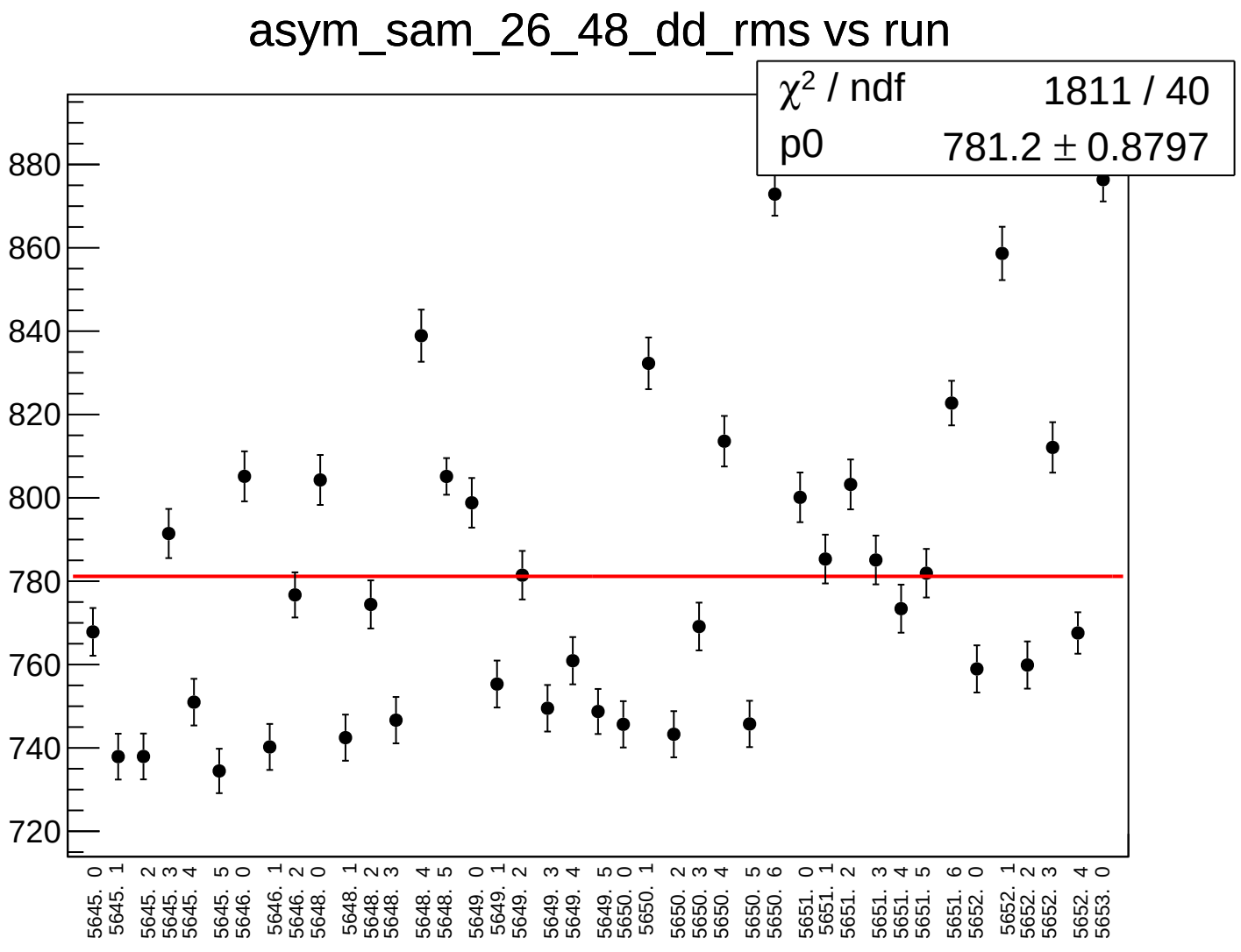

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 3525 / 40
p0 148.8 ± 0.1678
190
180
170
160
150
140
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

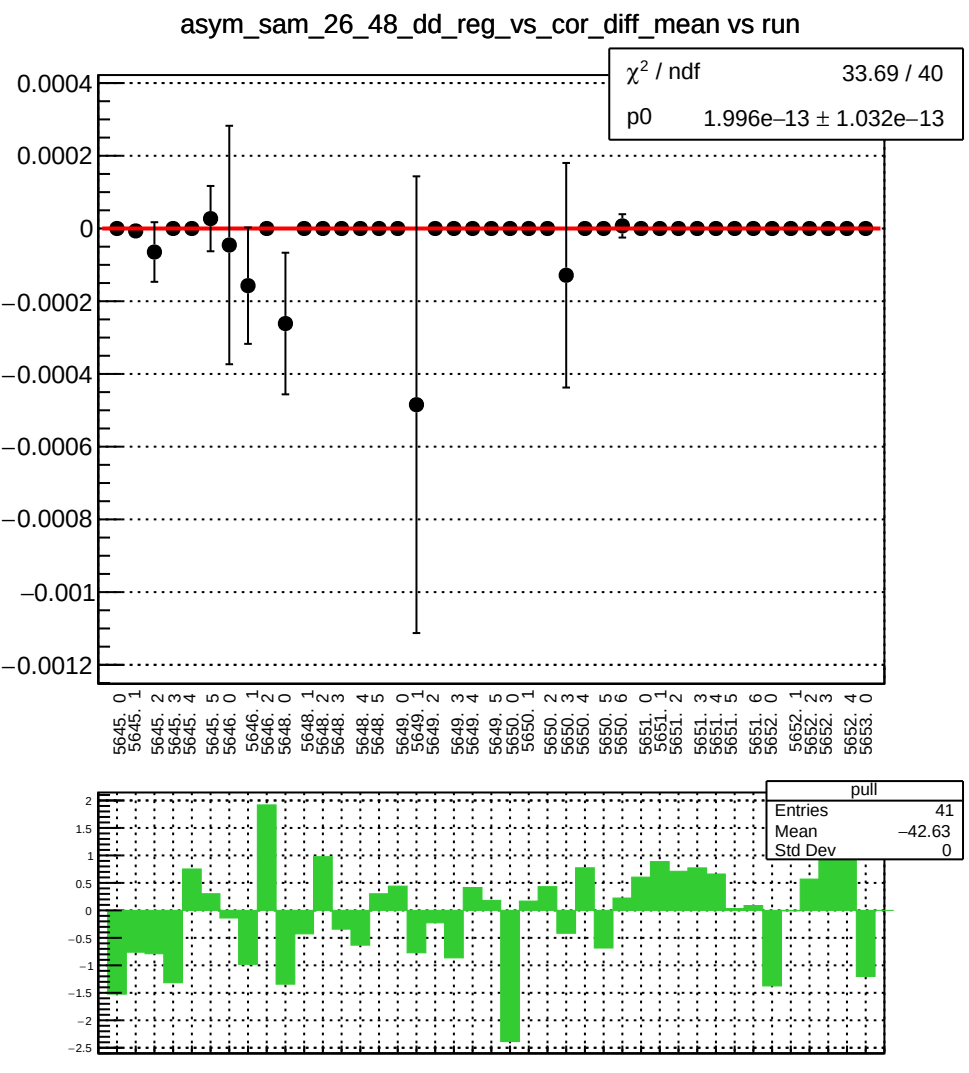

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 20.93 / 40
p0 439.7 ± 1251
pull
Entries 41
Mean −78.86
Std Dev 0
pull1D
Entries 41
Mean −0.0188
Std Dev 0.7142

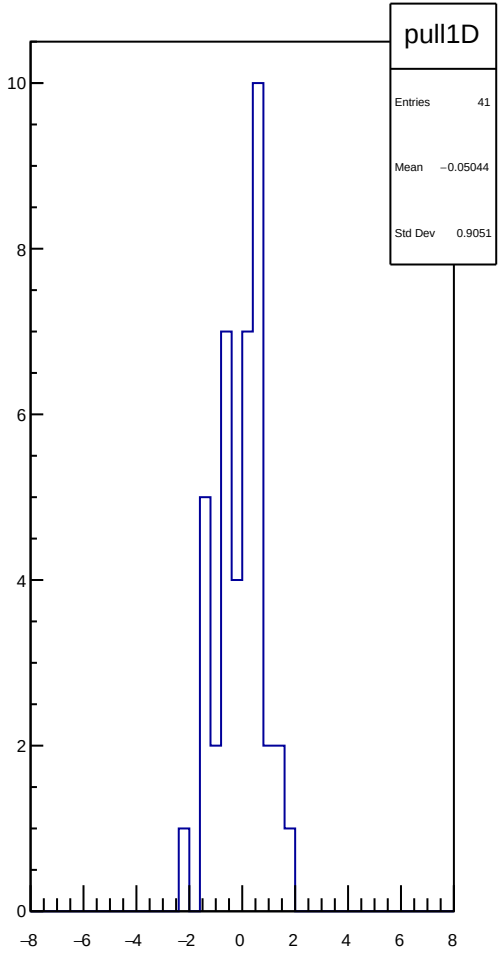

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1085 / 40
p0 786 ± 0.8848
860
840
820
800
780
760
740
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

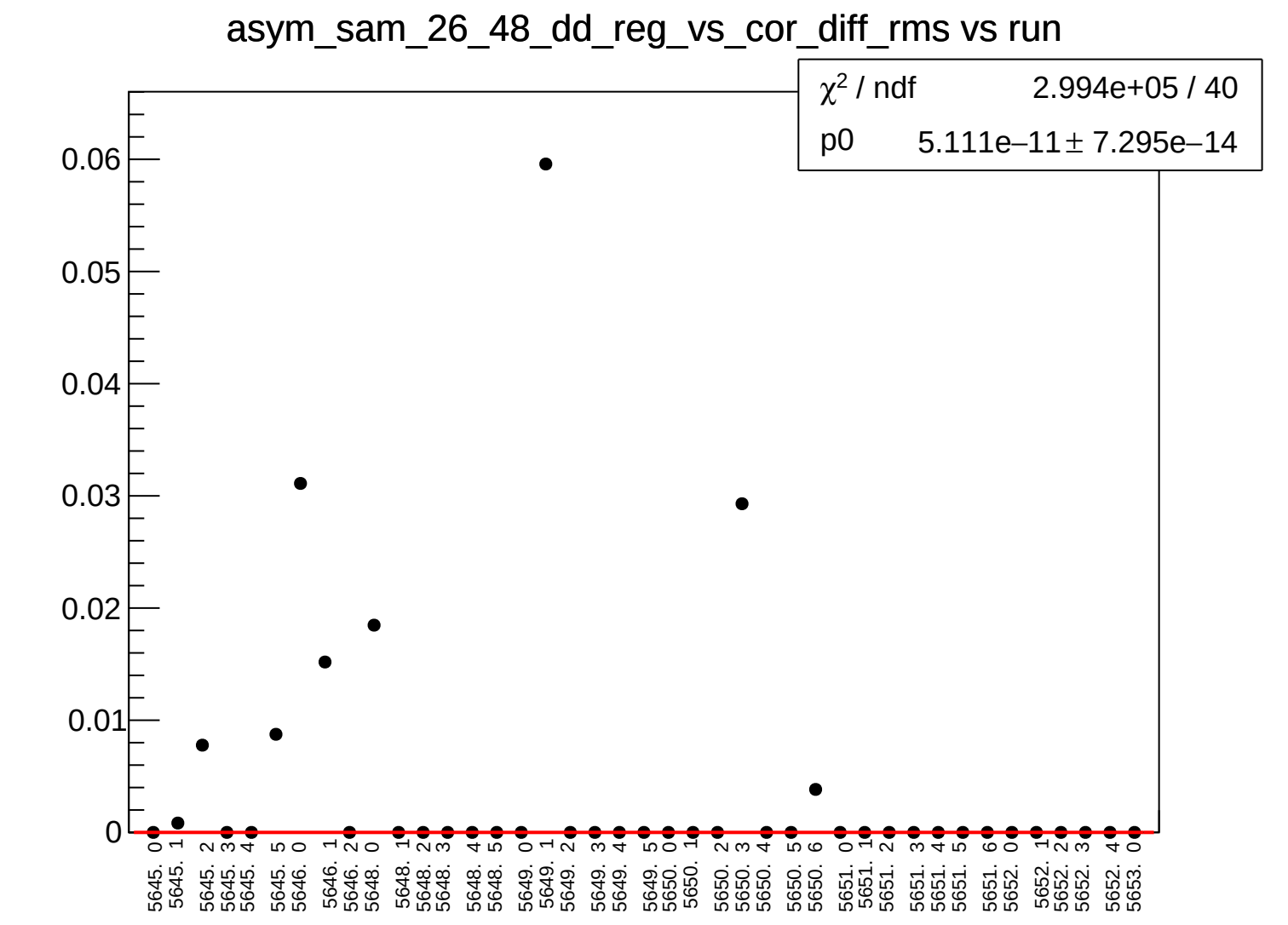

asym_sam_26_48_dd_mean vs run
χ² / ndf 22.58 / 40
p0 −175.7 ± 1244
pull
Entries 41
Mean −172.8
Std Dev 0

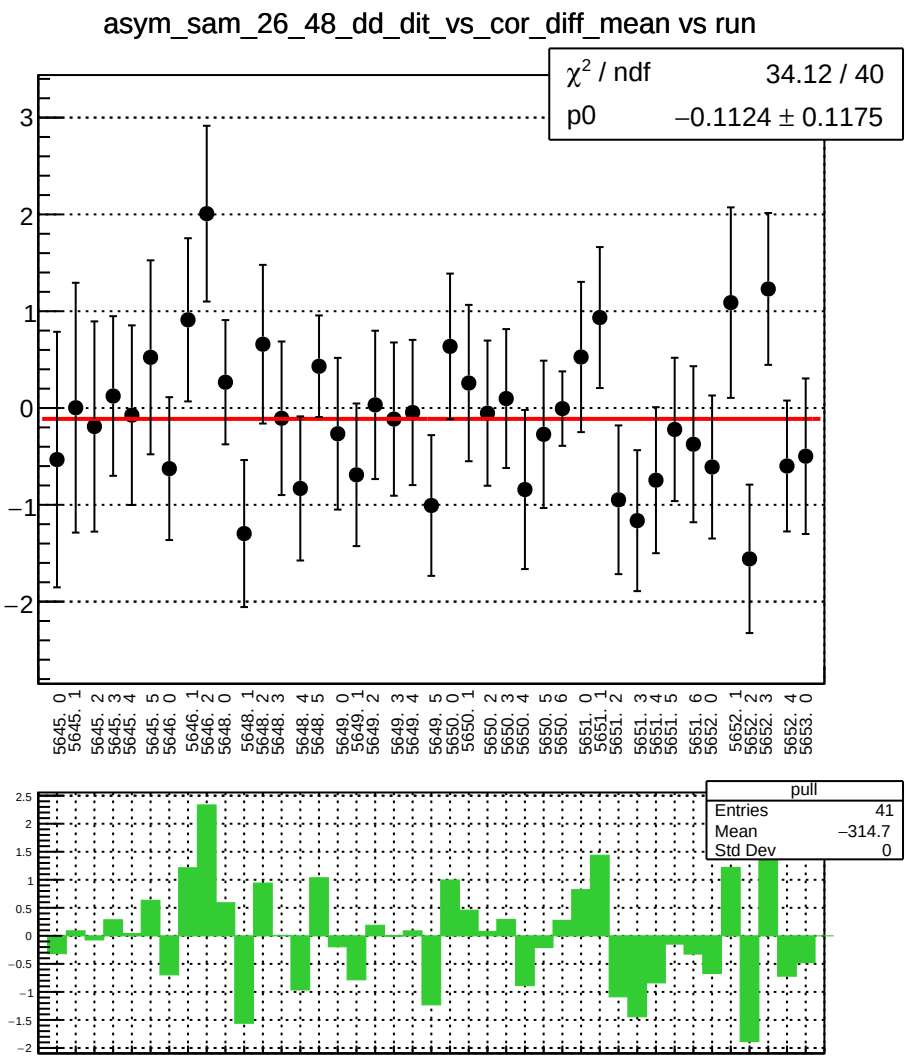

pull1D
Entries 41
Mean 0.01344
Std Dev 0.742

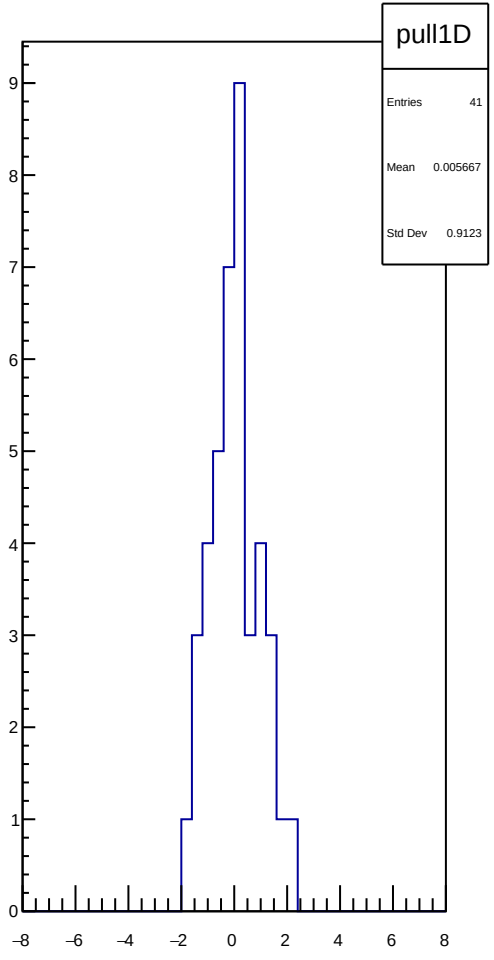

asym_sam_26_48_dd_rms vs run
χ² / ndf 1811 / 40
p0 781.2 ± 0.8797
880
860
840
820
800
780
760
740
720
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

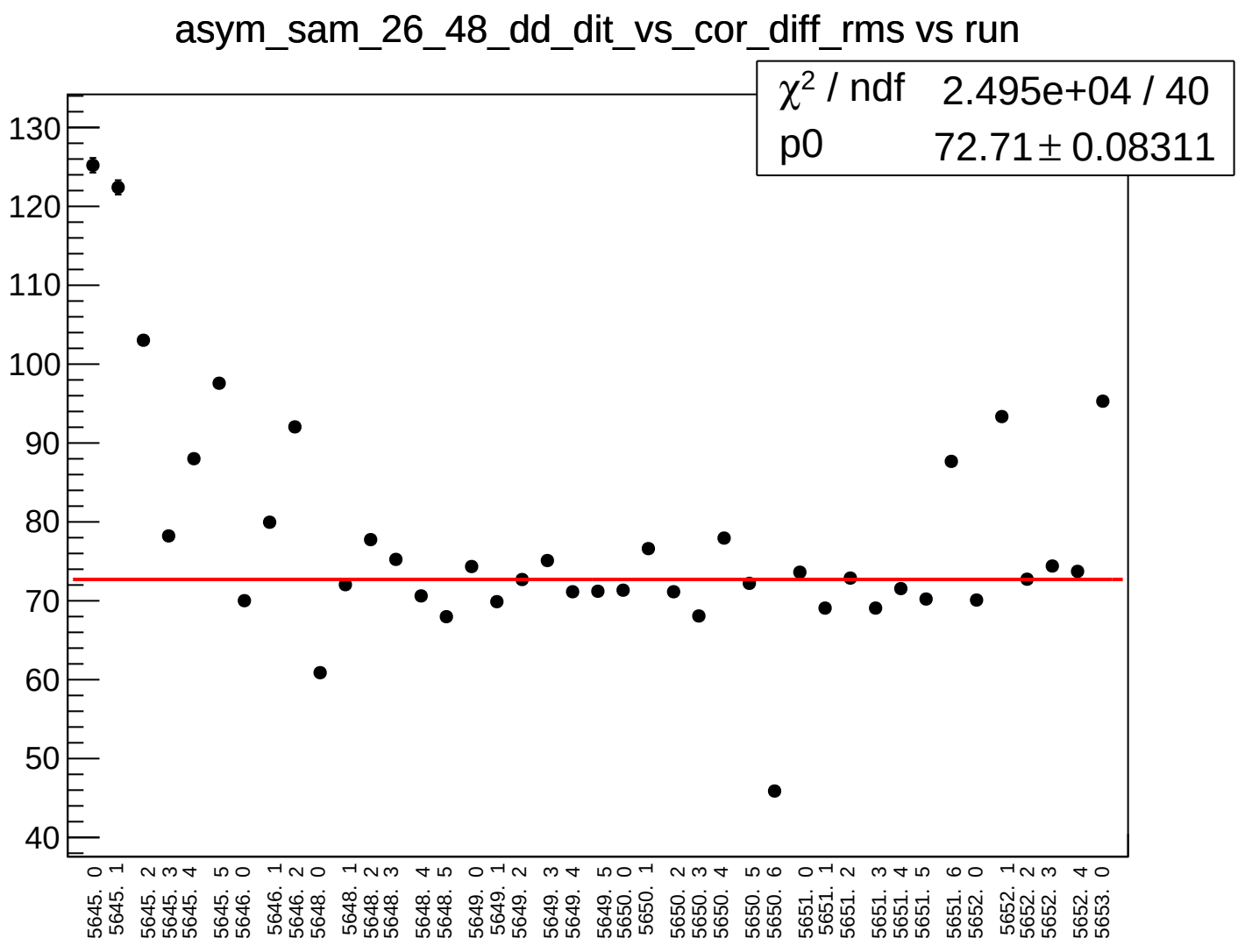

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 33.69 / 40
p0 1.996e−13 ± 1.032e−13
pull
Entries 41
Mean −42.63
Std Dev 0

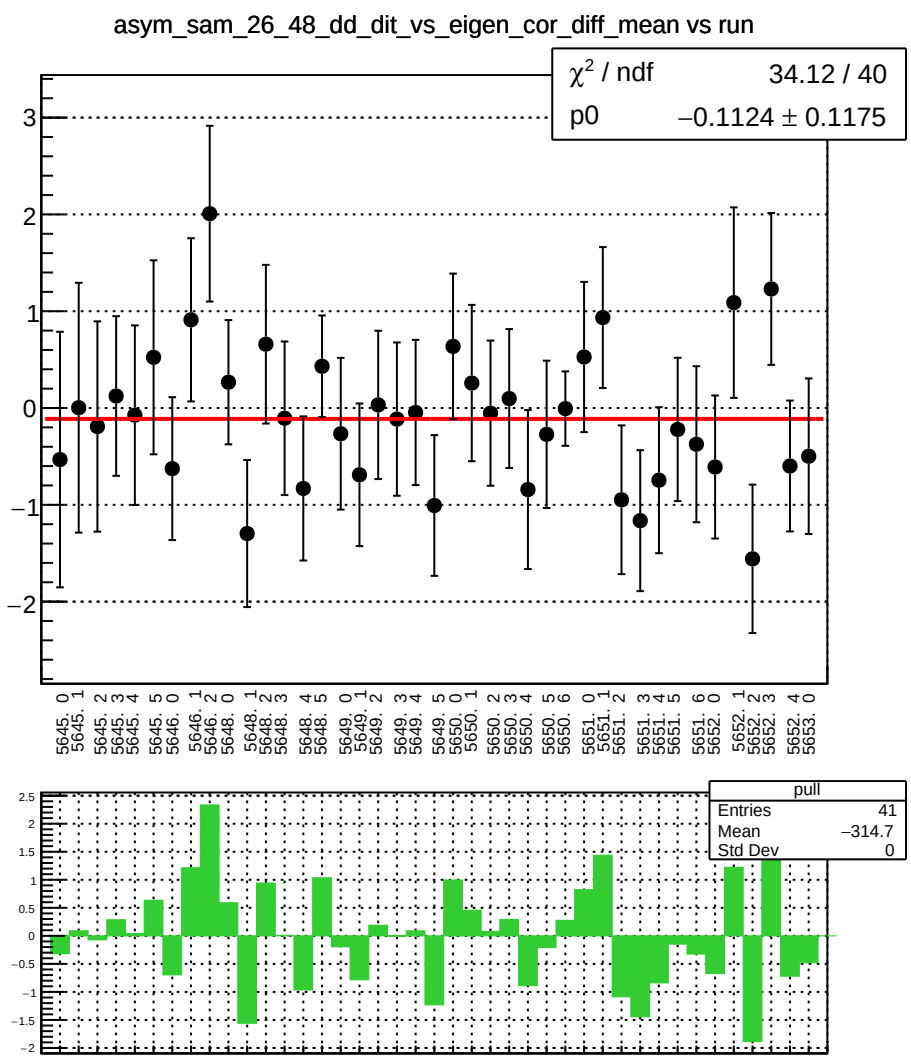

pull1D
Entries 41
Mean −0.05044
Std Dev 0.9051

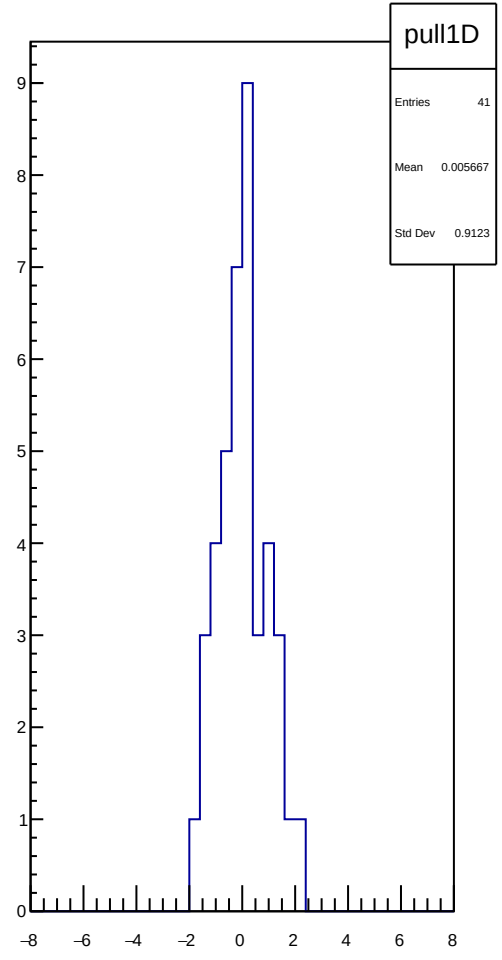

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 2.994e+05 / 40
p0 5.111e−11 ± 7.295e−14
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

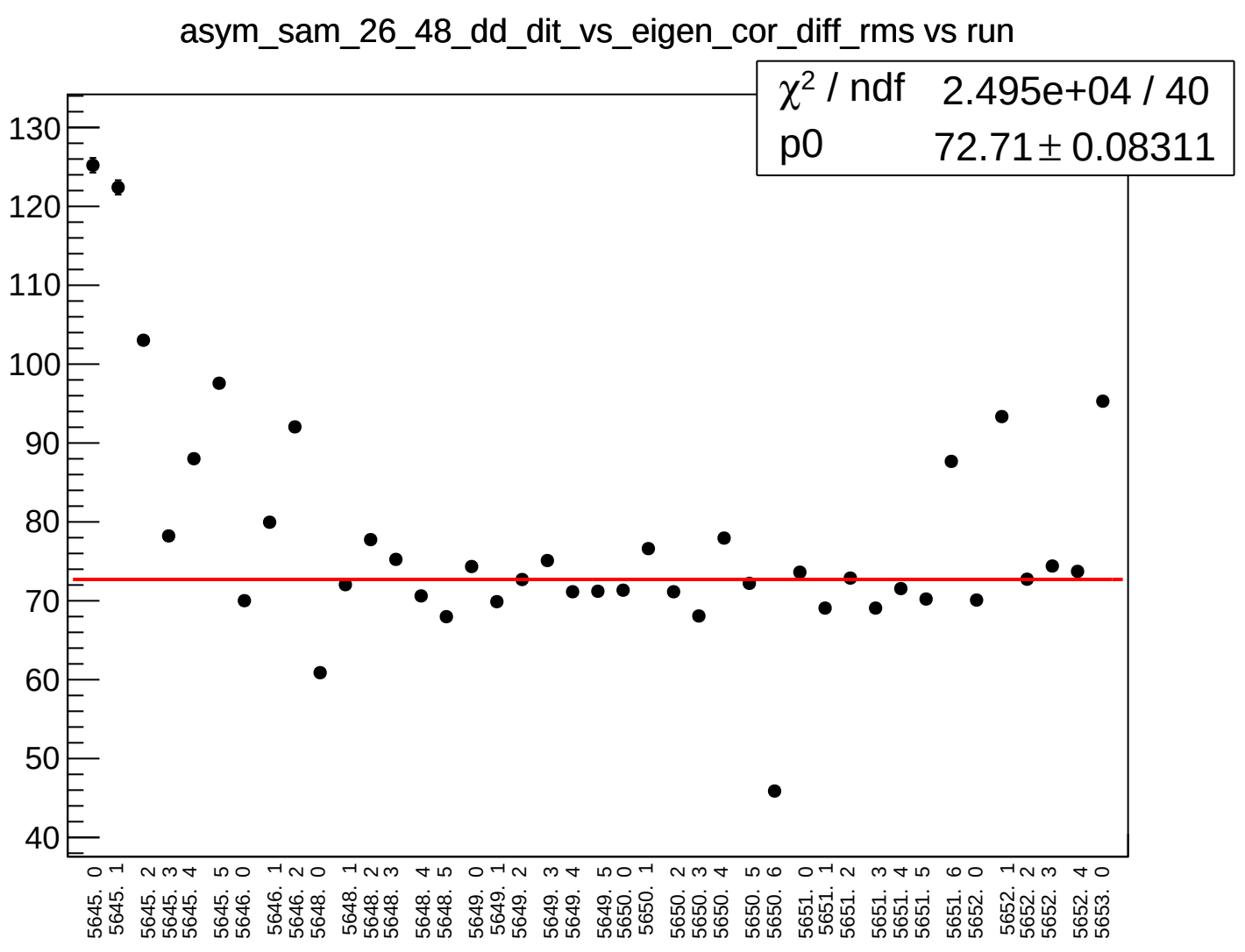

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.12 / 40
p0 −0.1124 ± 0.1175
pull
Entries 41
Mean −314.7
Std Dev 0

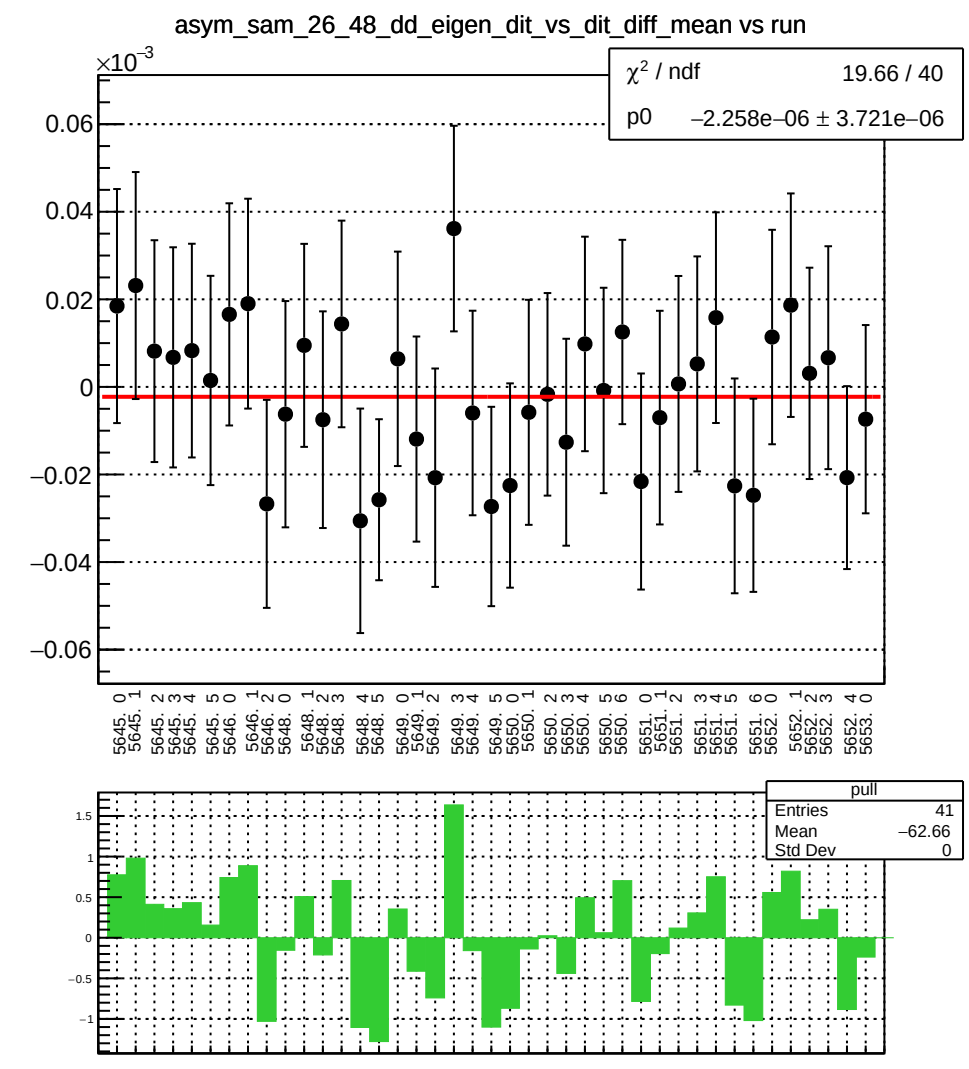

pull1D
Entries 41
Mean 0.005667
Std Dev 0.9123

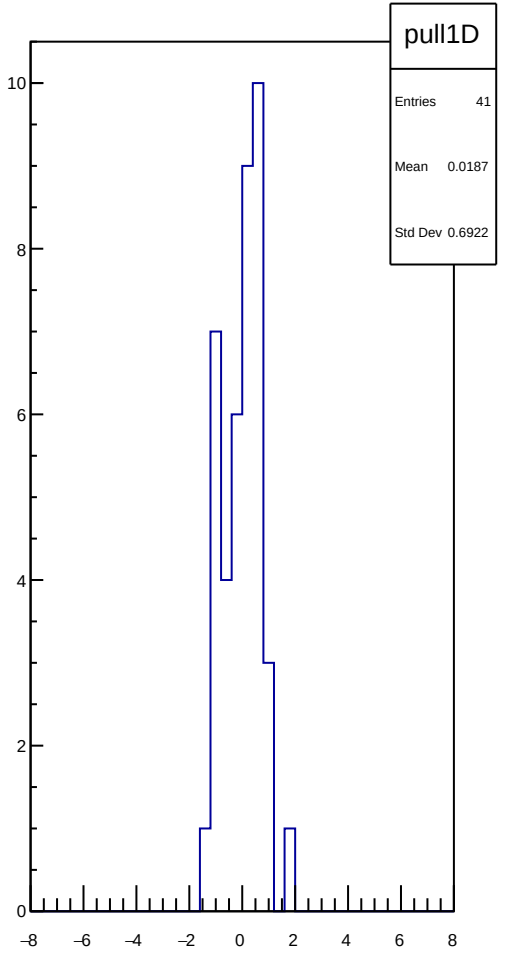

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+04 / 40
p0 72.71 ± 0.08311
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

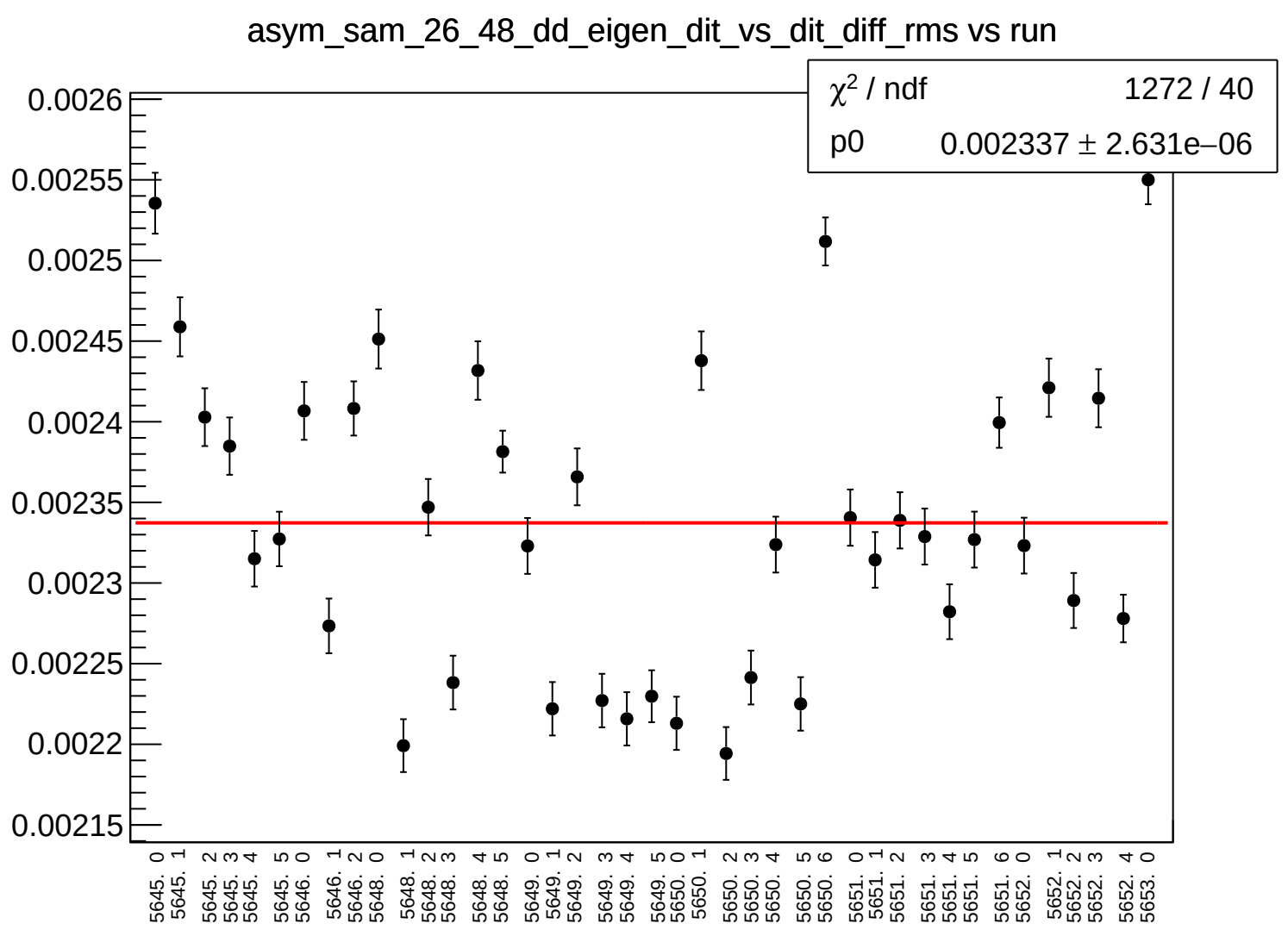

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.12 / 40
p0 −0.1124 ± 0.1175
pull
Entries 41
Mean −314.7
Std Dev 0

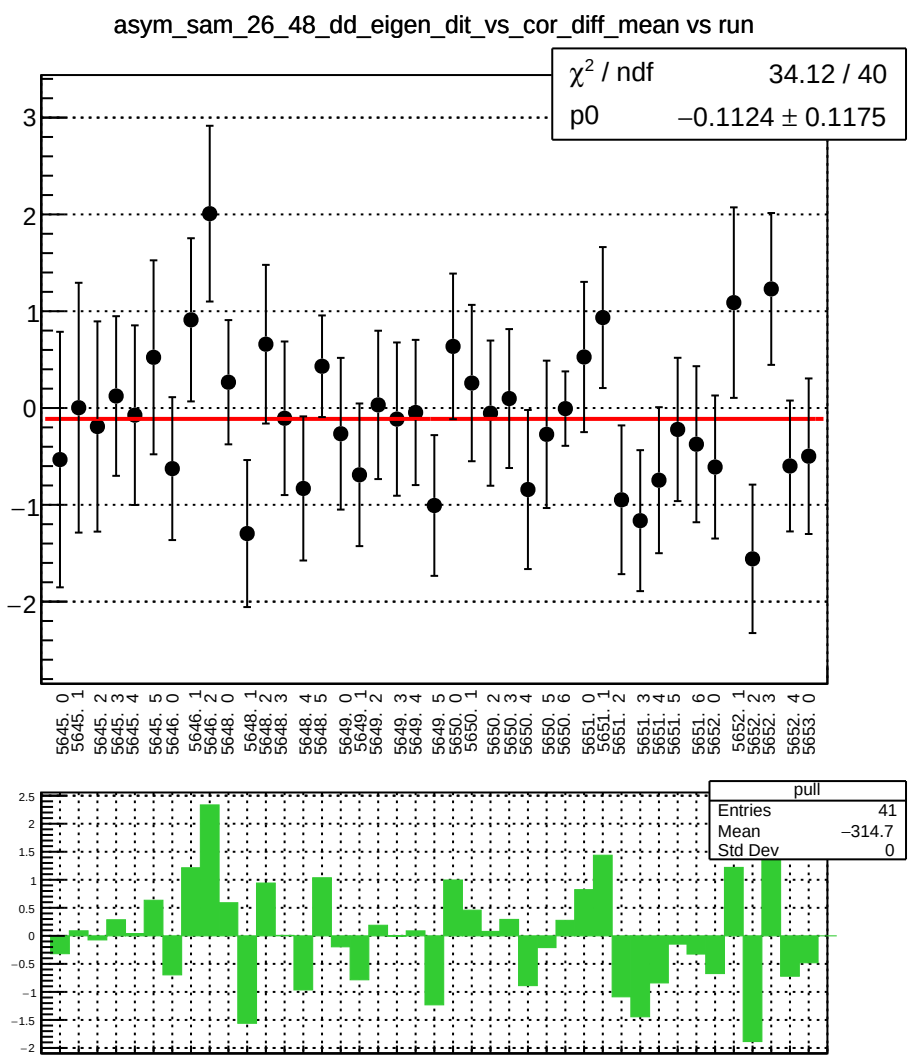

pull1D
Entries 41
Mean 0.005667
Std Dev 0.9123

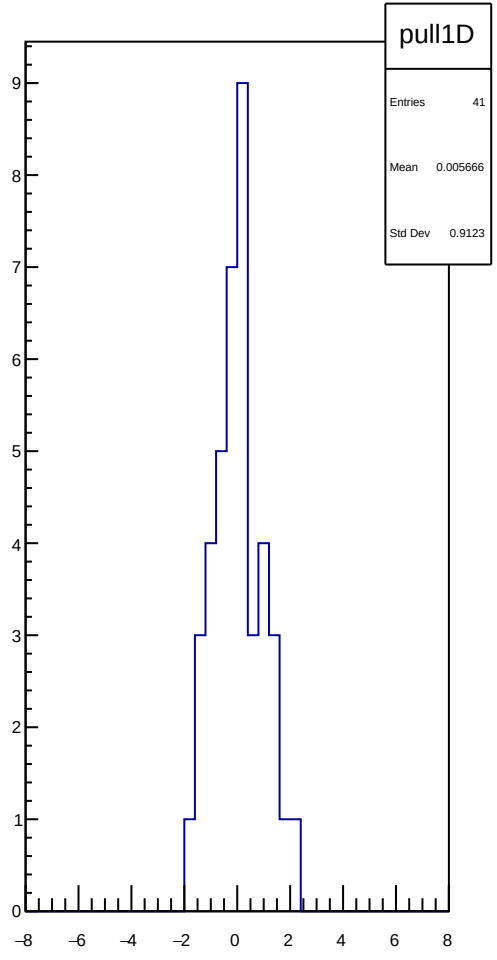

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+04 / 40
p0 72.71 ± 0.08311
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

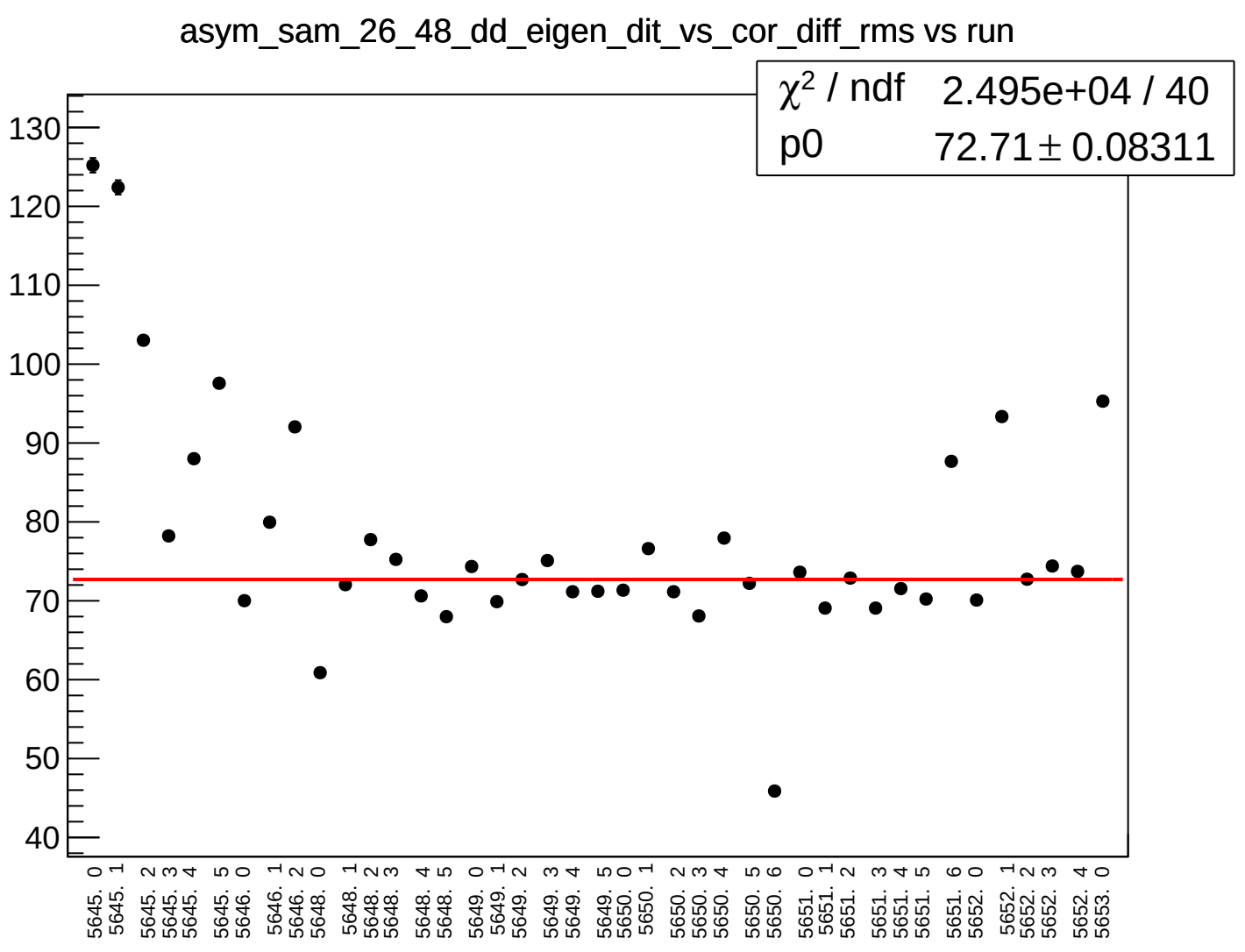

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 19.66 / 40
p0 −2.258e−06 ± 3.721e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −62.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1

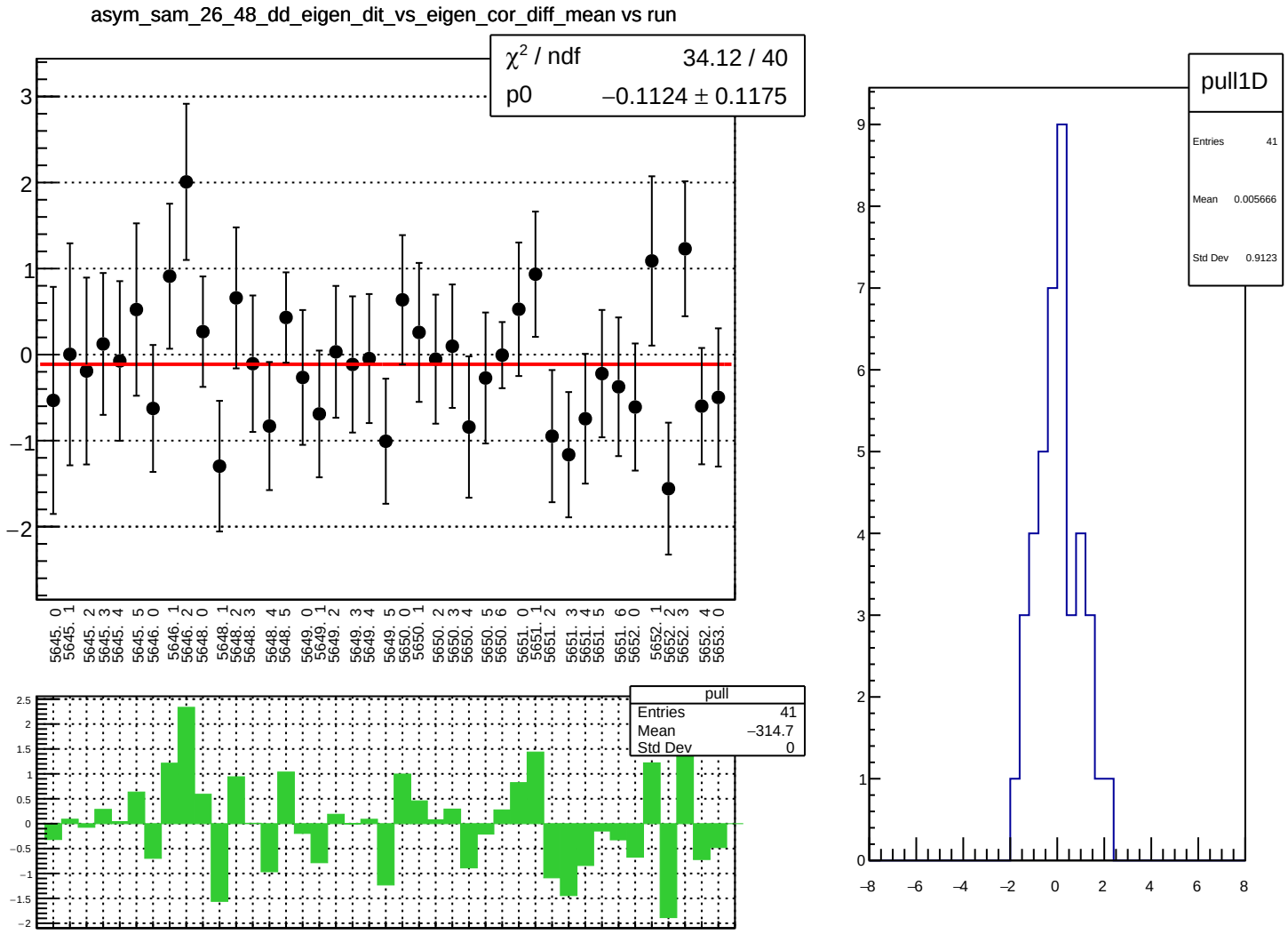

pull1D
Entries 41
Mean 0.0187
Std Dev 0.6922
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

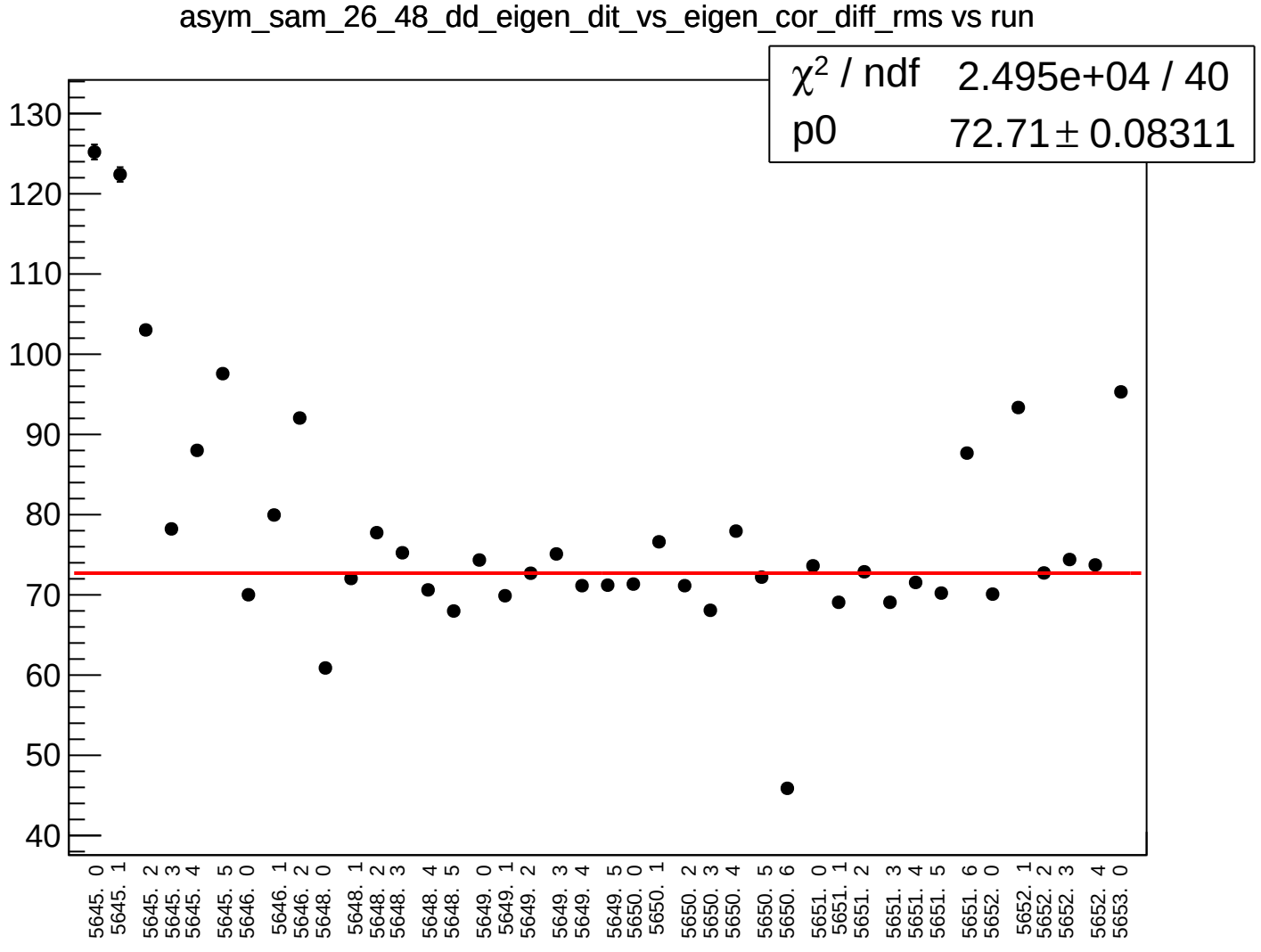

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1272 / 40
p0 0.002337 ± 2.631e−06
0.0026
0.00255
0.0025
0.00245
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

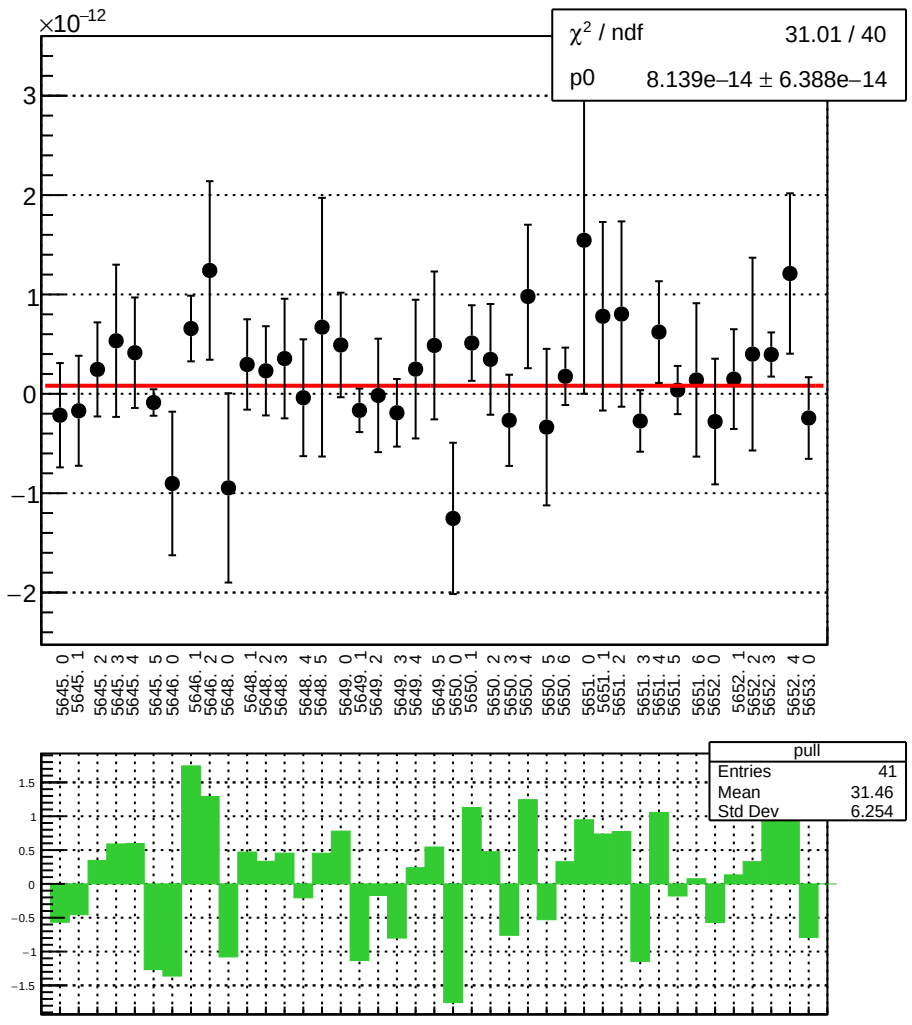

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.12 / 40
p0 −0.1124 ± 0.1175
pull
Entries 41
Mean −314.7
Std Dev 0

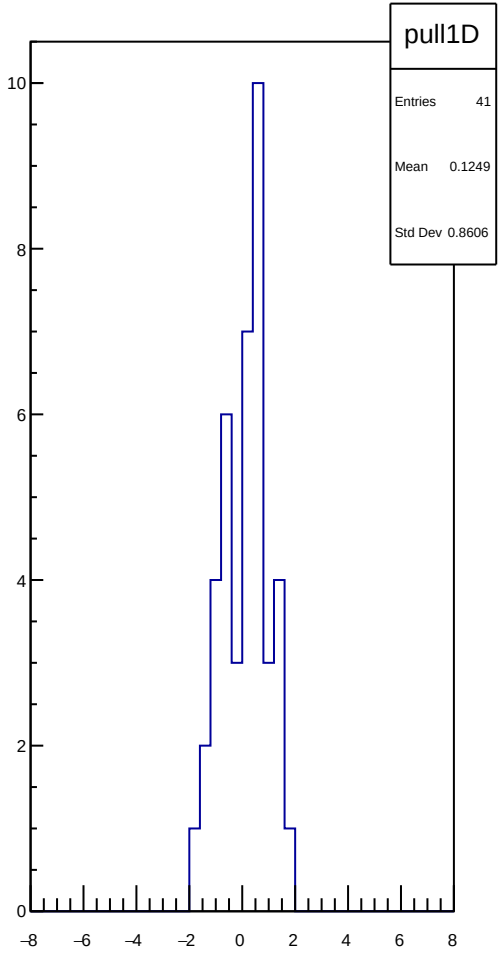

pull1D
Entries 41
Mean 0.005666
Std Dev 0.9123

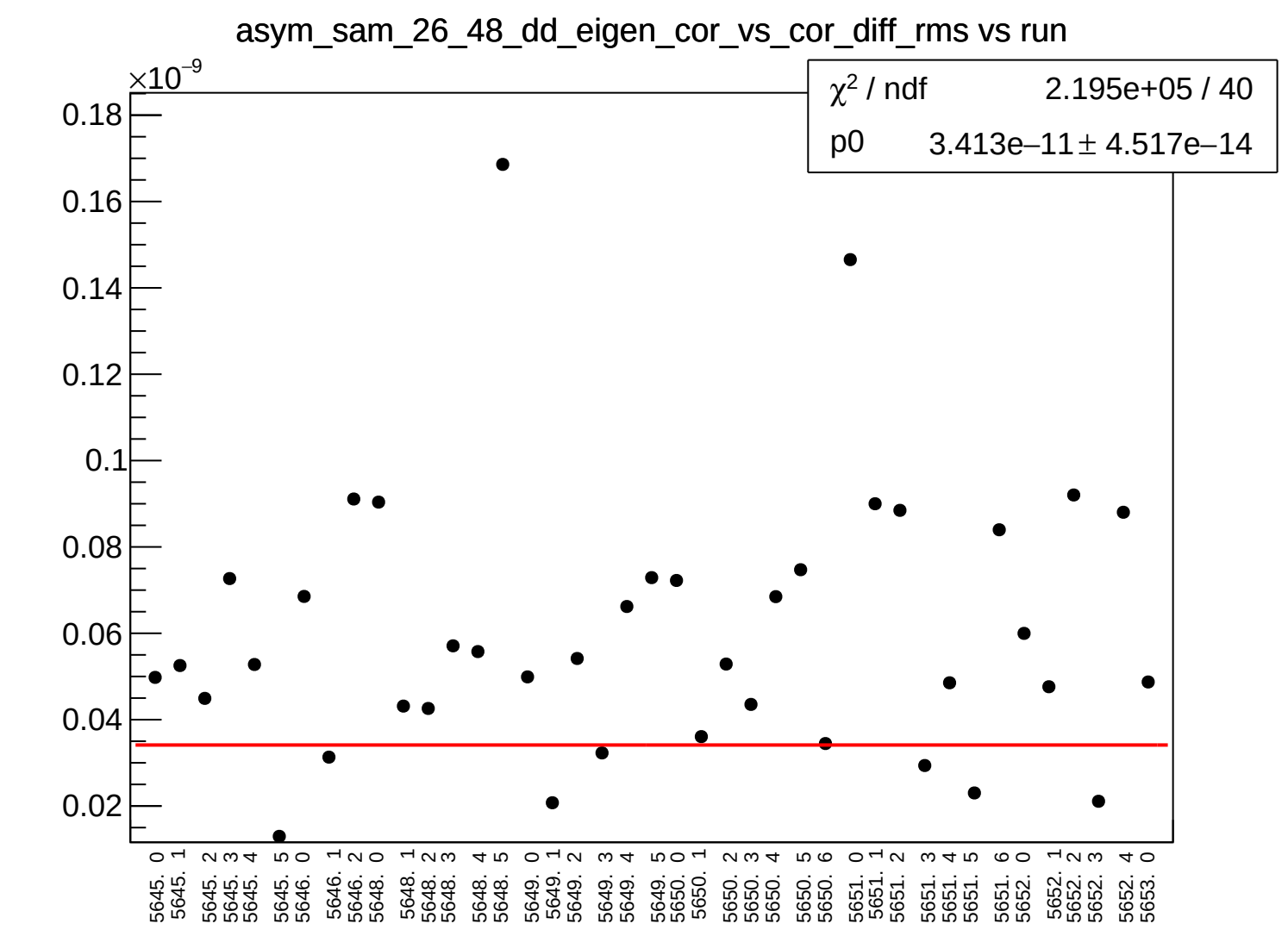

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.495e+04 / 40
p0 72.71 ± 0.08311
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

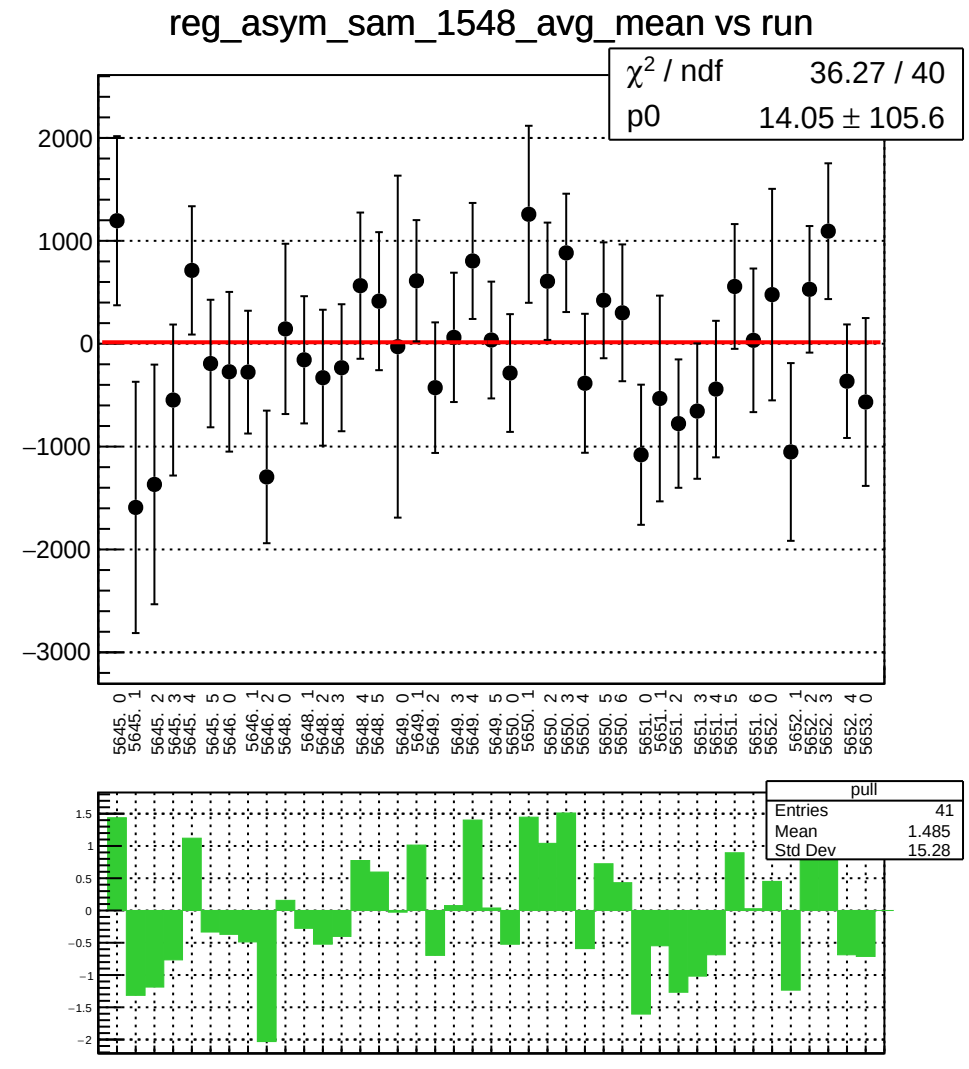

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.12 / 40
p0 −0.1124 ± 0.1175
pull
Entries 41
Mean −314.7
Std Dev 0
pull1D
Entries 41
Mean 0.005666
Std Dev 0.9123

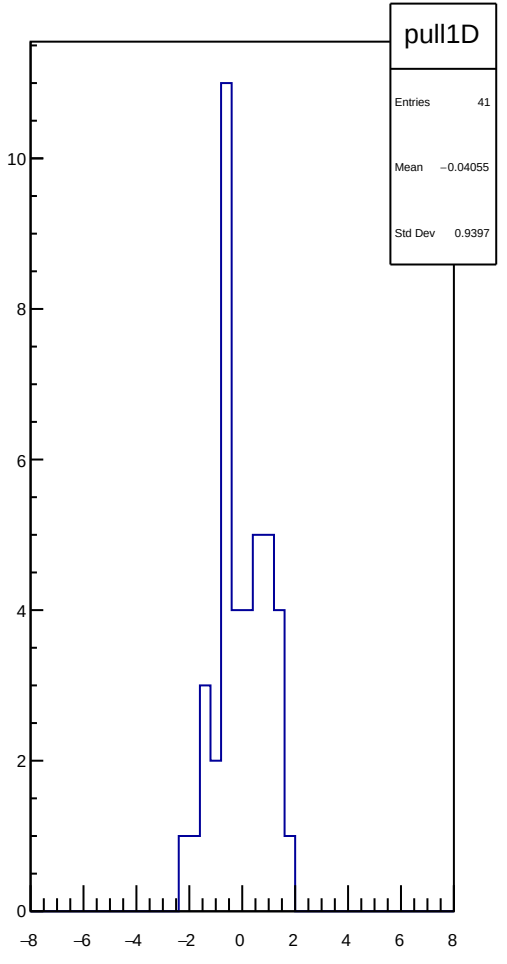

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.495e+04 / 40
p0 72.71 ± 0.08311
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

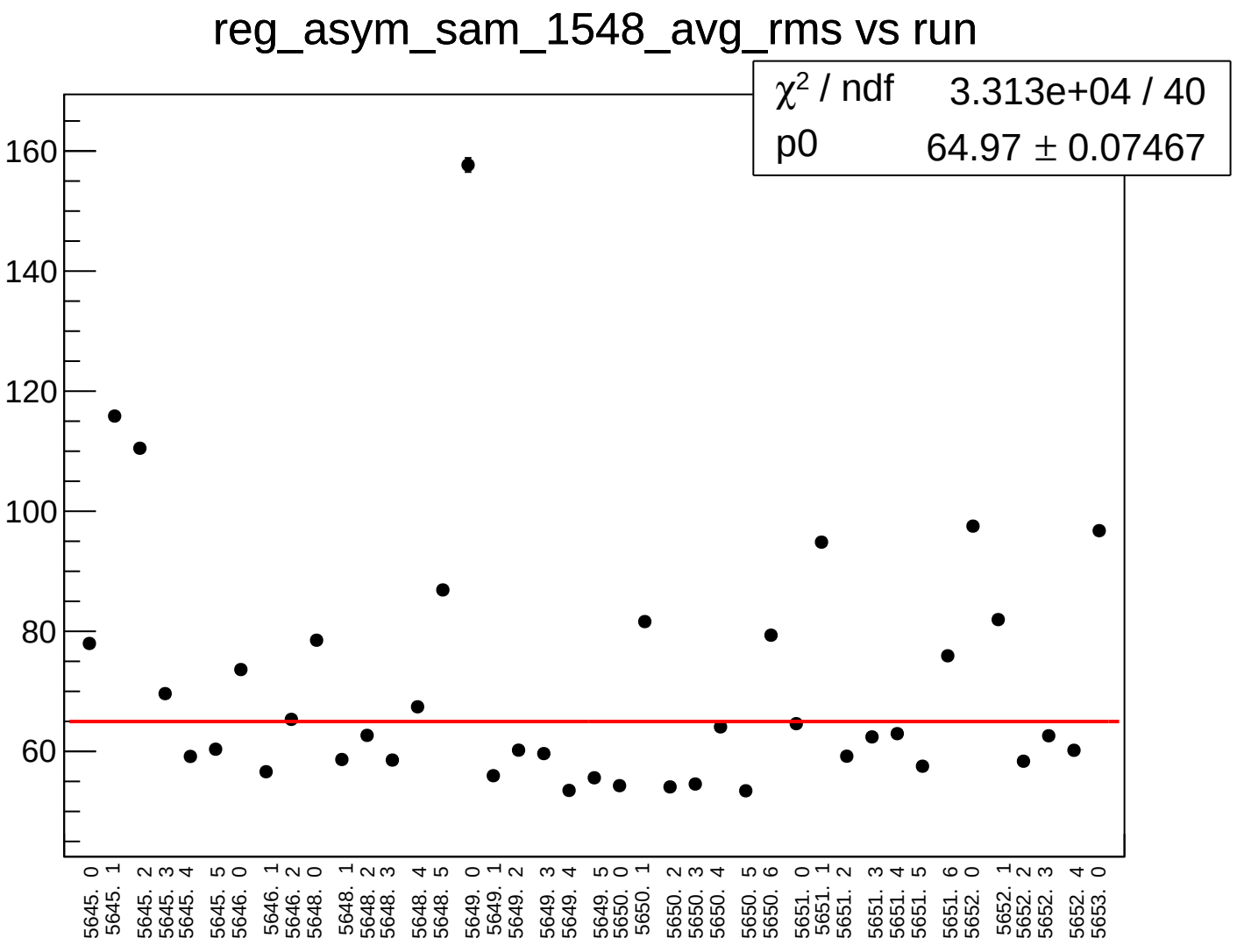

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.01 / 40
p0 8.139e−14 ± 6.388e−14
pull
Entries 41
Mean 31.46
Std Dev 6.254

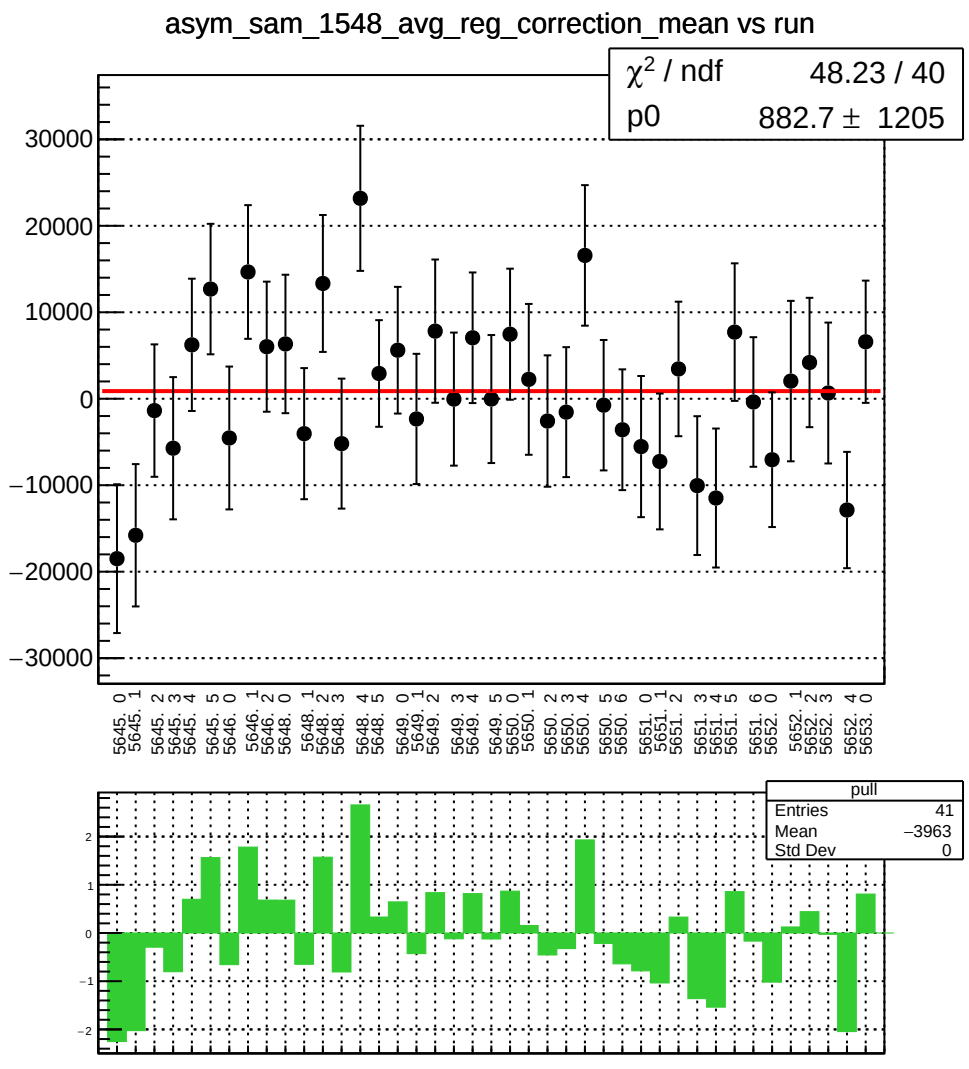

pull1D
Entries 41
Mean 0.1249
Std Dev 0.8606

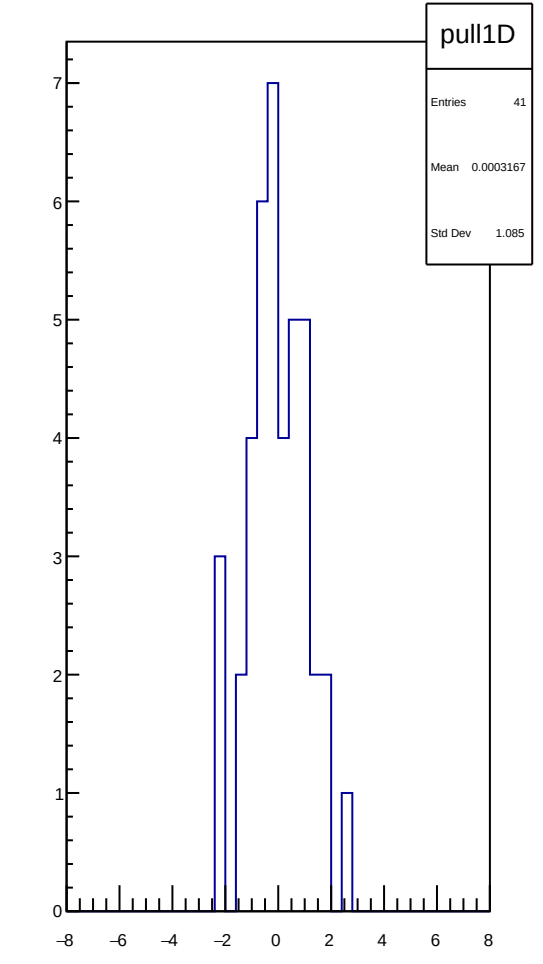

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.195e+05 / 40
p0 3.413e−11 ± 4.517e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

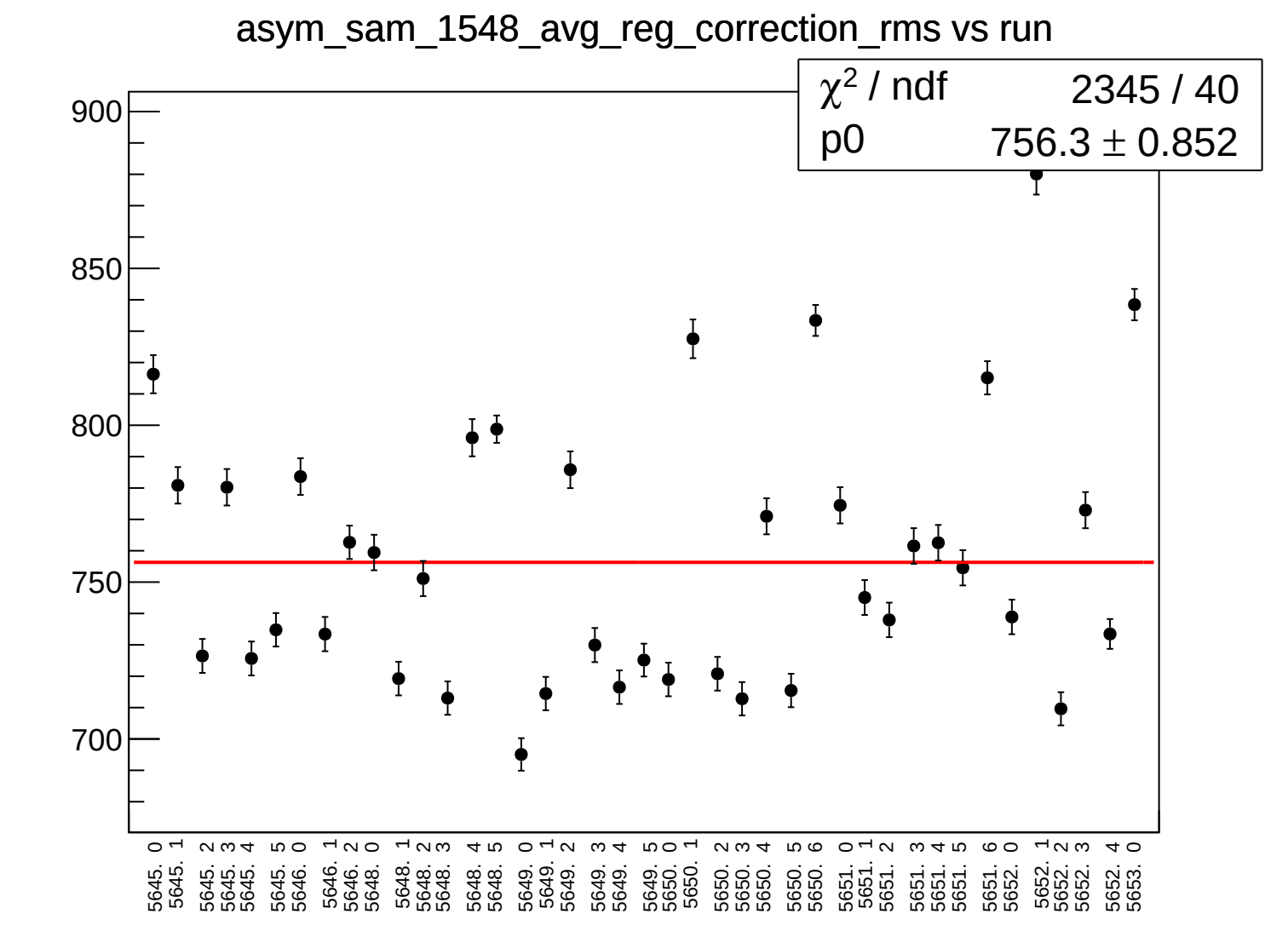

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 36.27 / 40
p0 14.05 ± 105.6
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.485
Std Dev 15.28
1.5
1
0.5
0
−0.5
−1
−1.5
−2

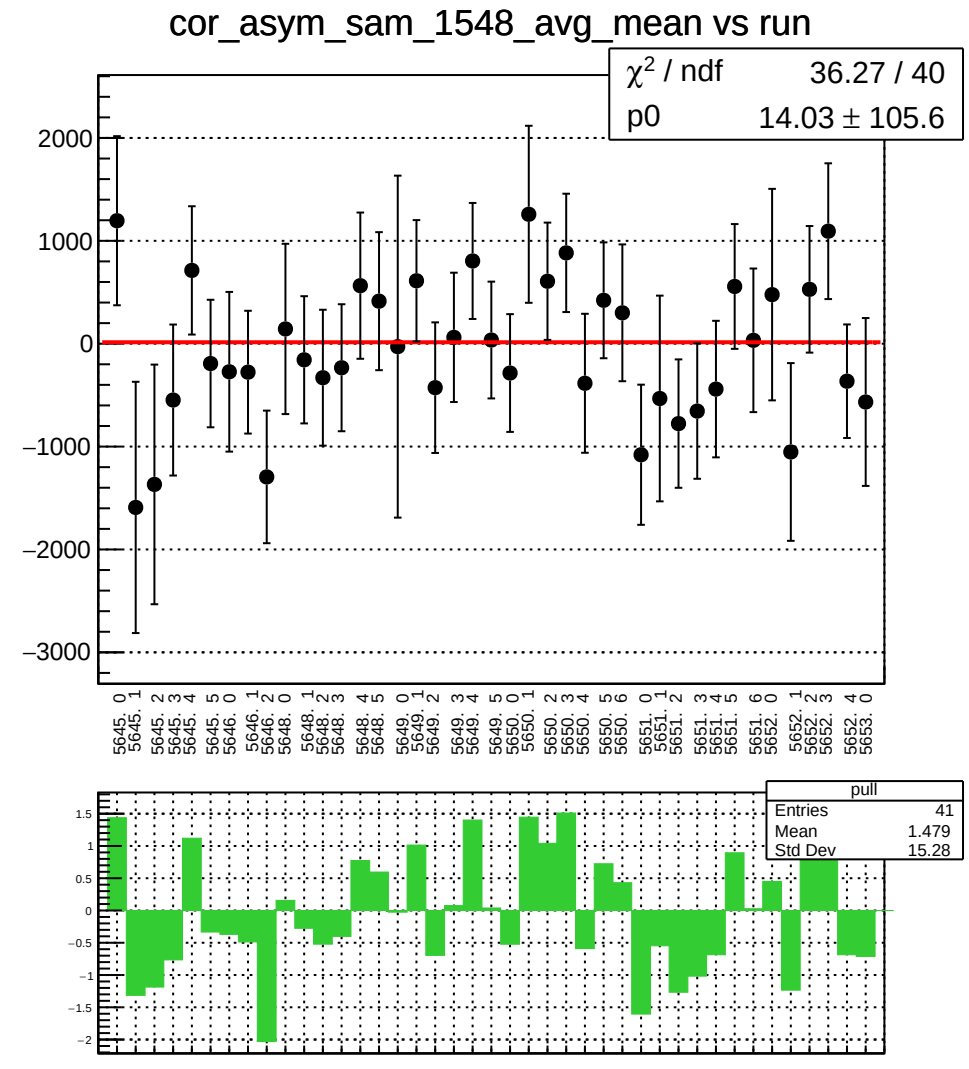

pull1D
Entries 41
Mean −0.04055
Std Dev 0.9397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

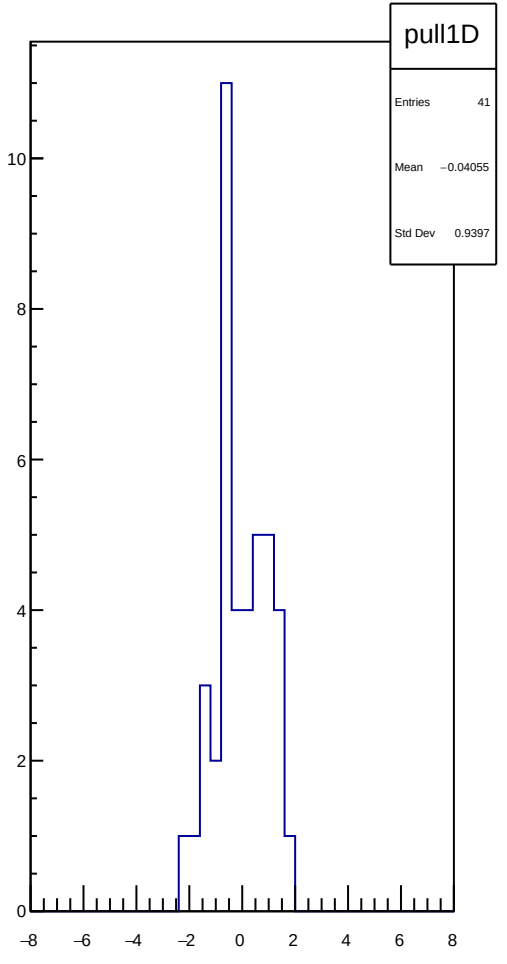

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 3.313e+04 / 40
p0 64.97 ± 0.07467
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

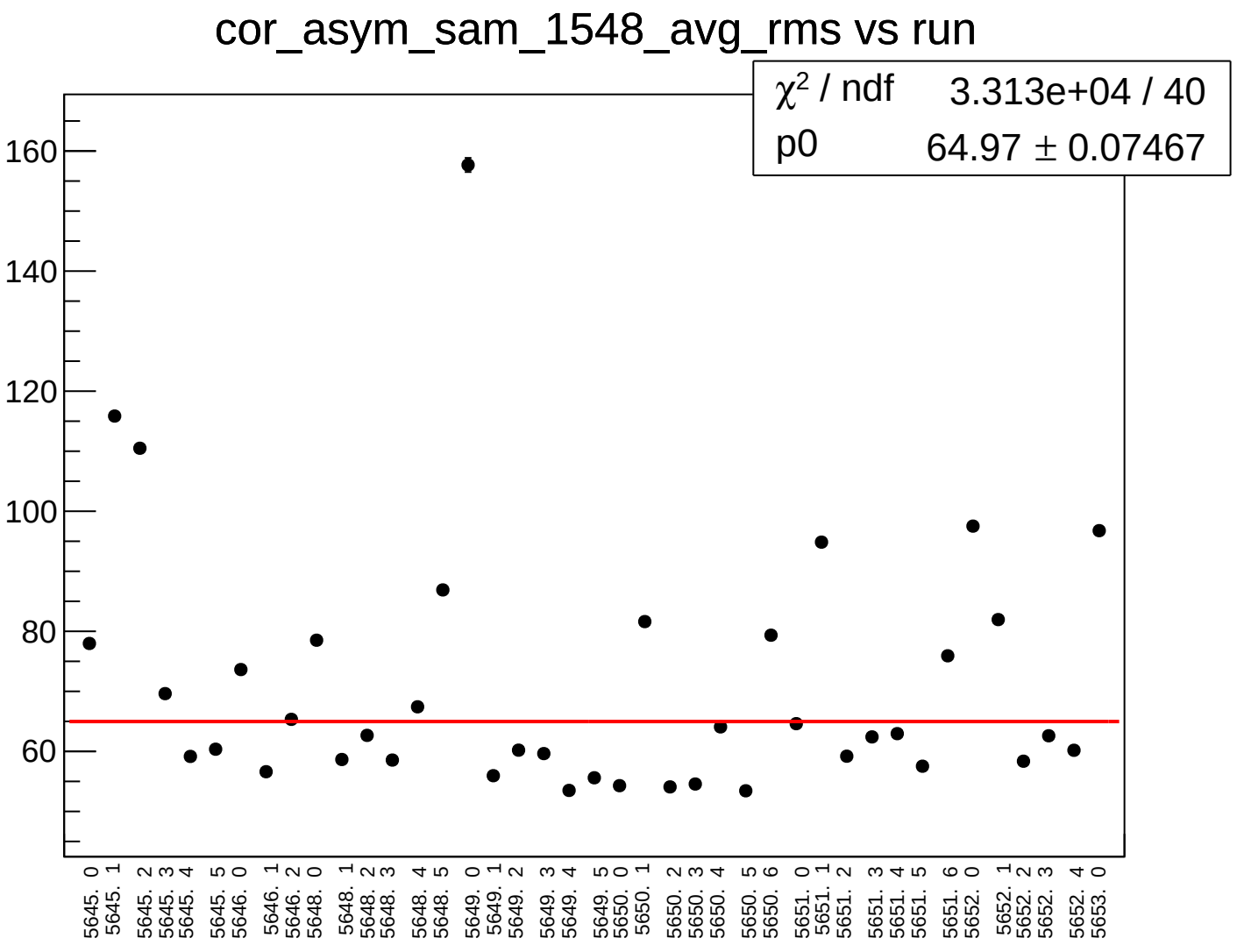

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 48.23 / 40
p0 882.7 ± 1205
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −3963
Std Dev 0
2
1
0
−1
−2

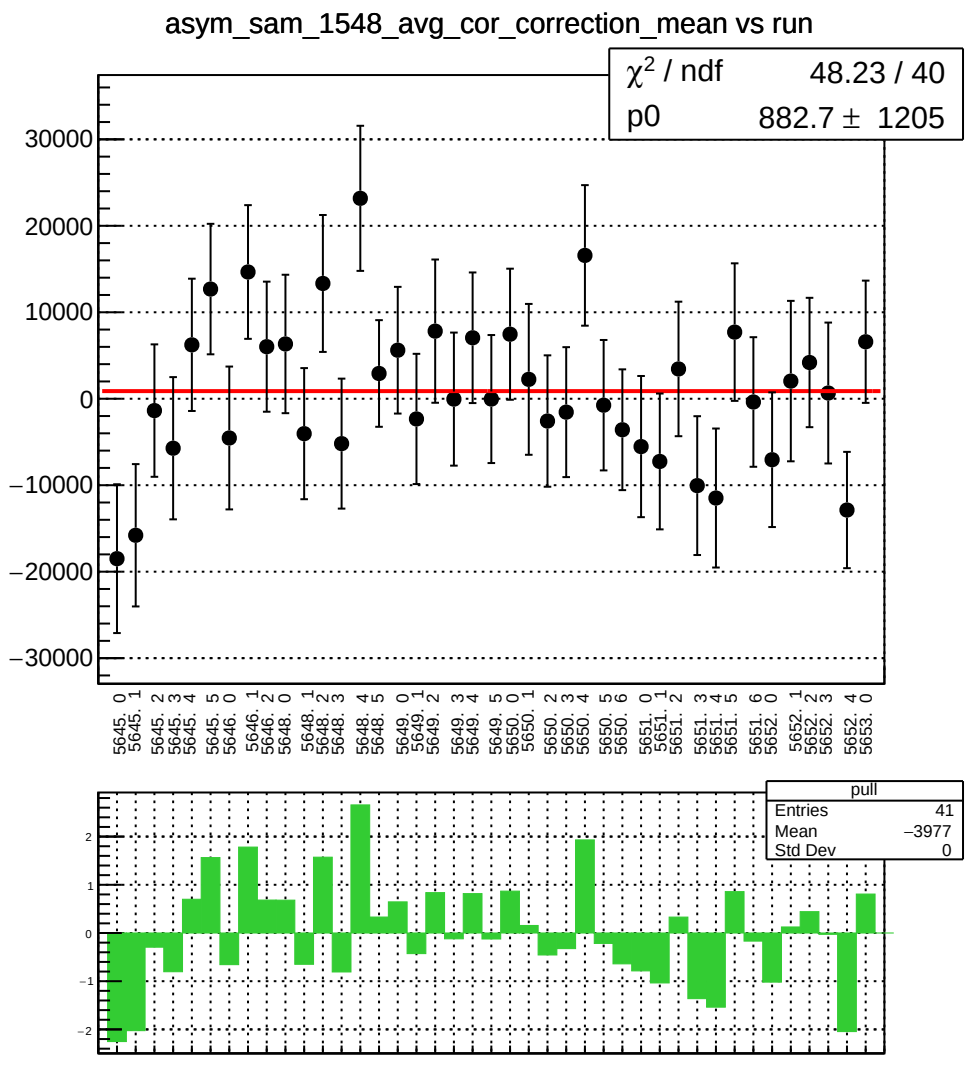

pull1D
Entries 41
Mean 0.0003167
Std Dev 1.085
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

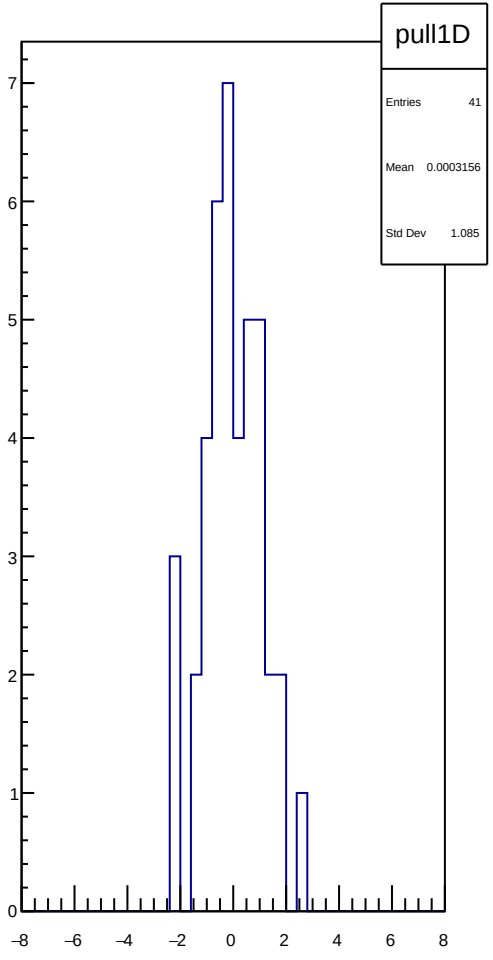

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2345 / 40
p0 756.3 ± 0.852
900
850
800
750
700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

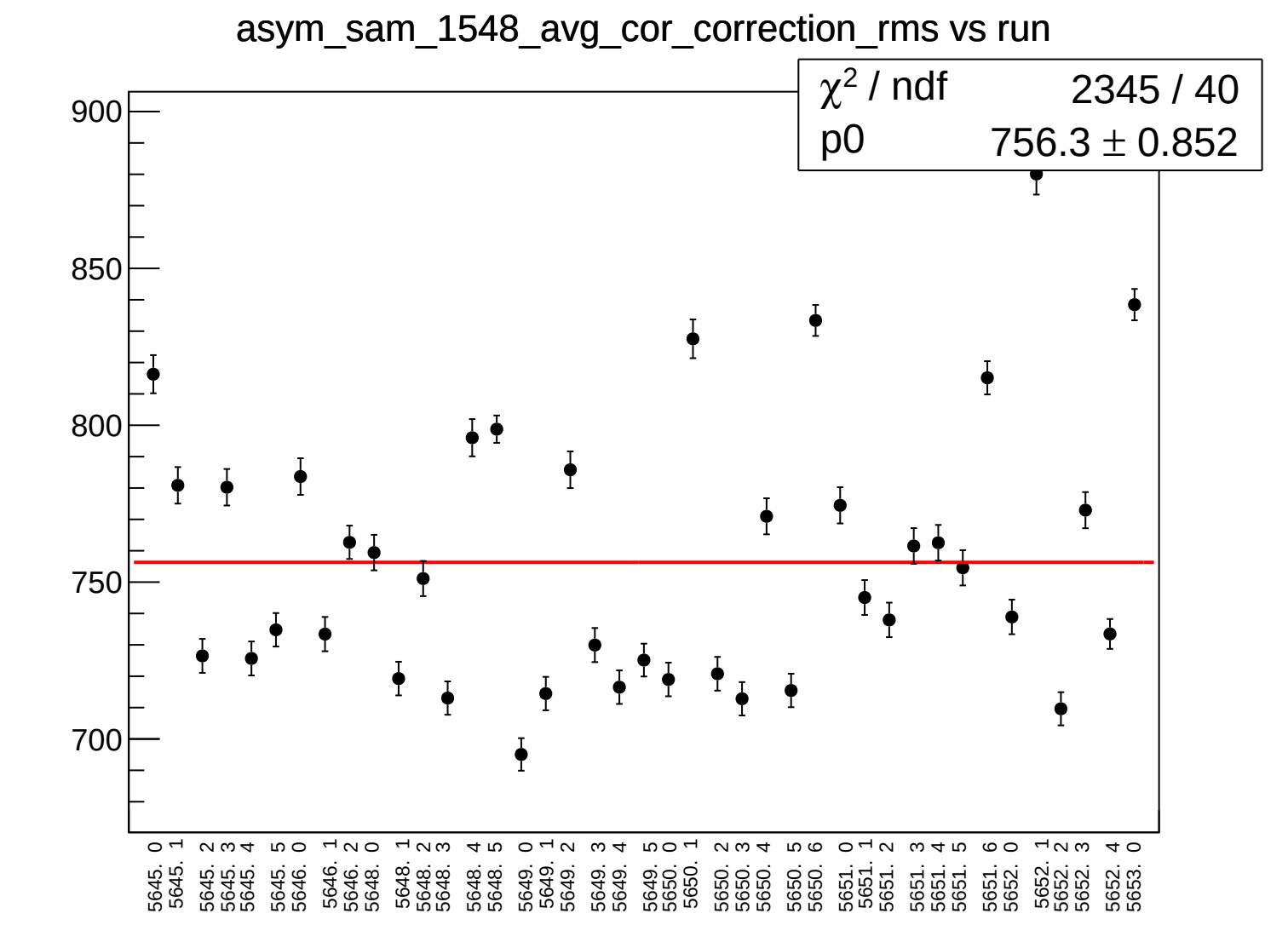

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 36.27 / 40
p0 14.03 ± 105.6
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.479
Std Dev 15.28
1.5
1
0.5
0
−0.5
−1
−1.5
−2

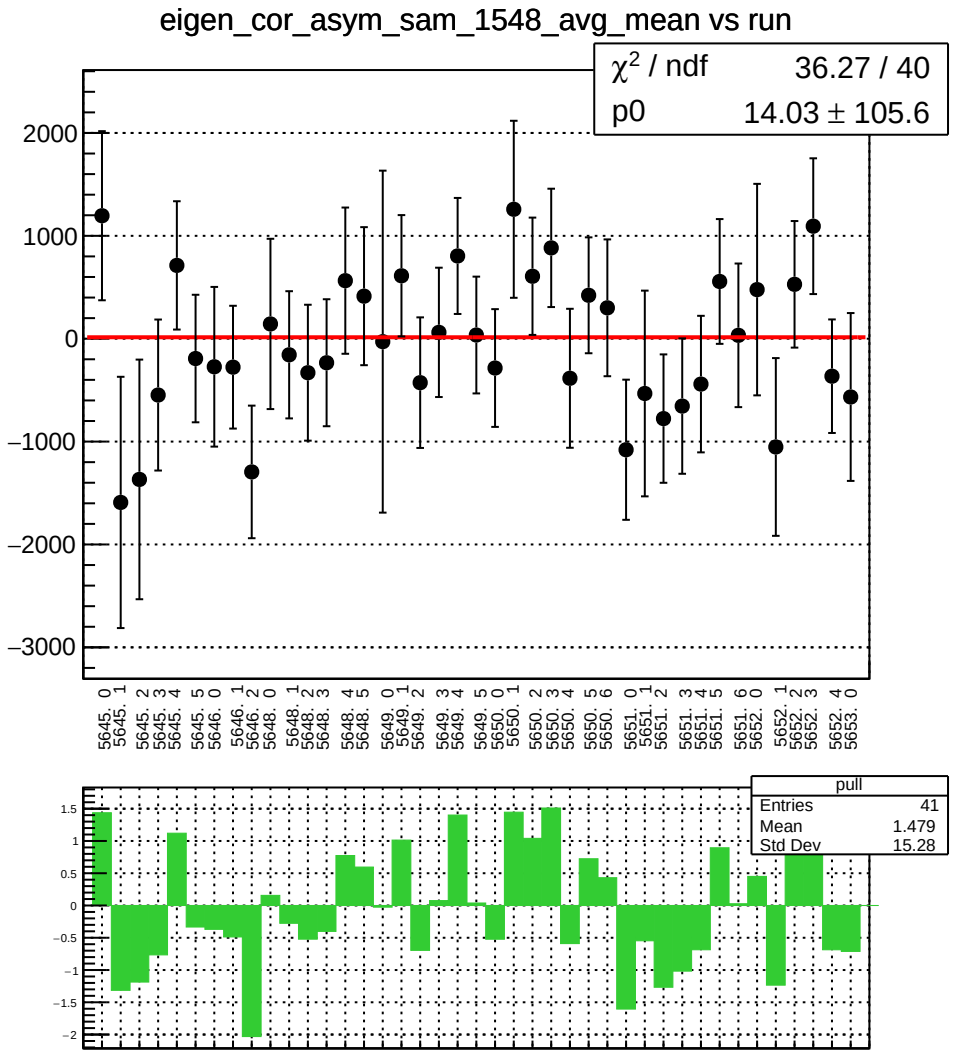

pull1D
Entries 41
Mean −0.04055
Std Dev 0.9397
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

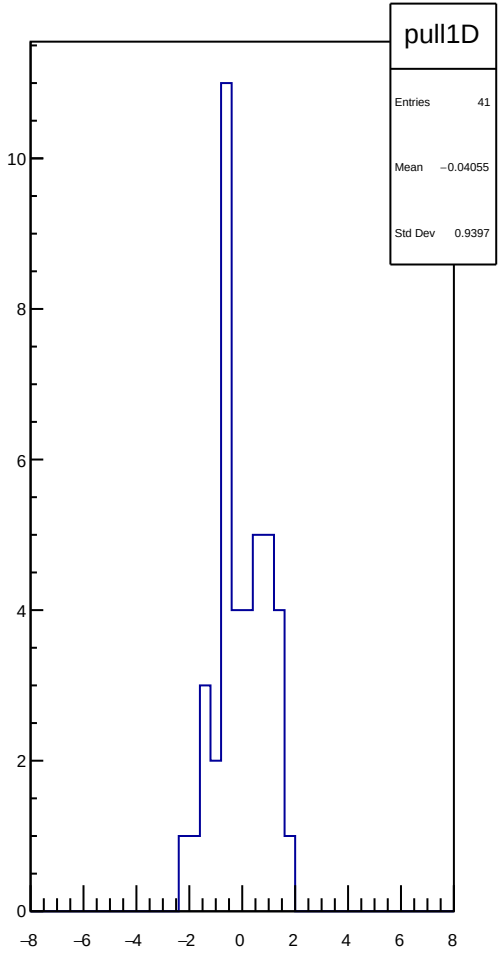

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 3.313e+04 / 40
p0 64.97 ± 0.07467
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

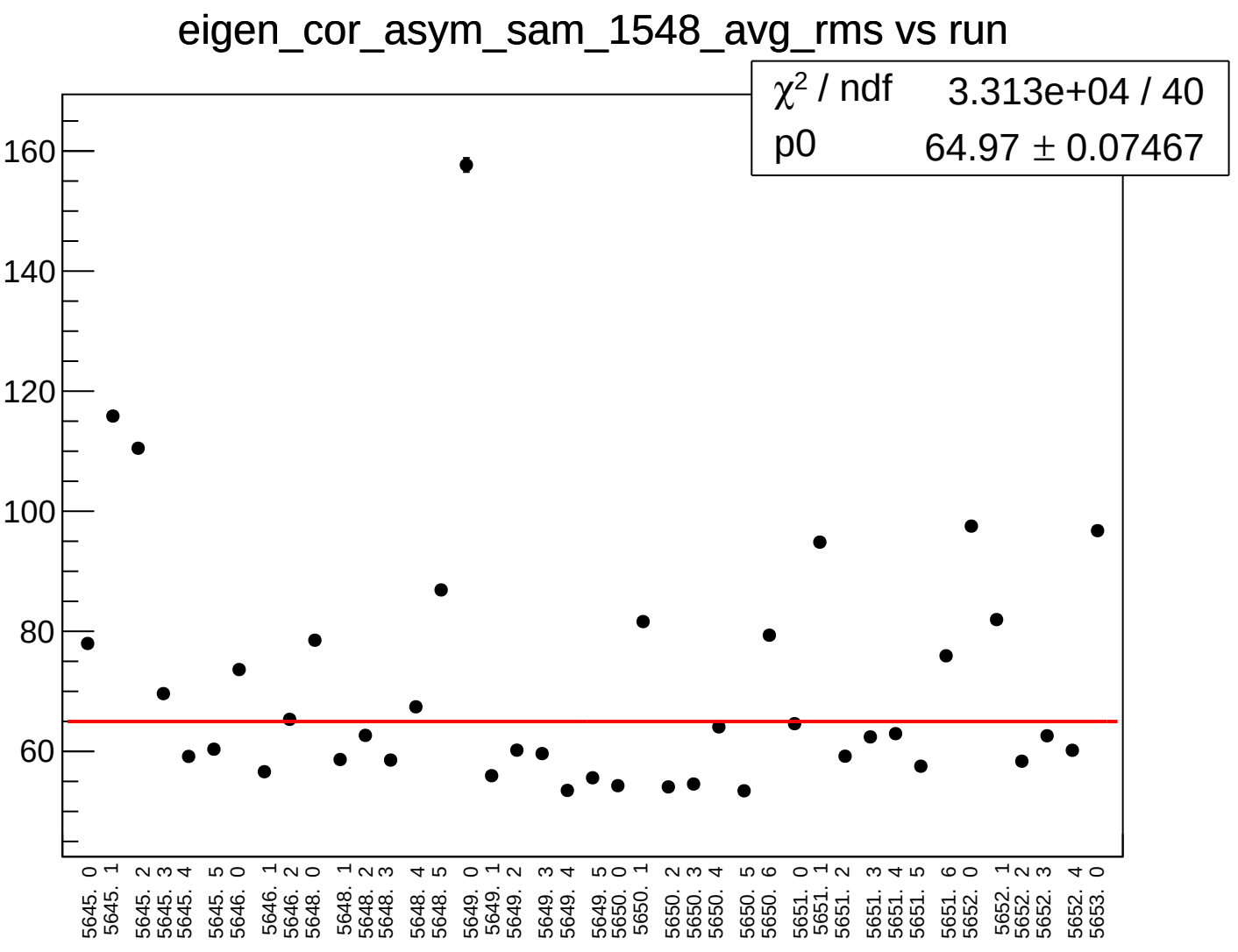

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 48.23 / 40
p0 882.7 ± 1205
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −3977
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.0003156
Std Dev 1.085
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 2345 / 40
p0 756.3 ± 0.852
900
850
800
750
700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 36.27 / 40
p0 14.03 ± 105.6
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1.479
Std Dev 15.28
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.04055
Std Dev 0.9397
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 3.313e+04 / 40
p0 64.97 ± 0.07467
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
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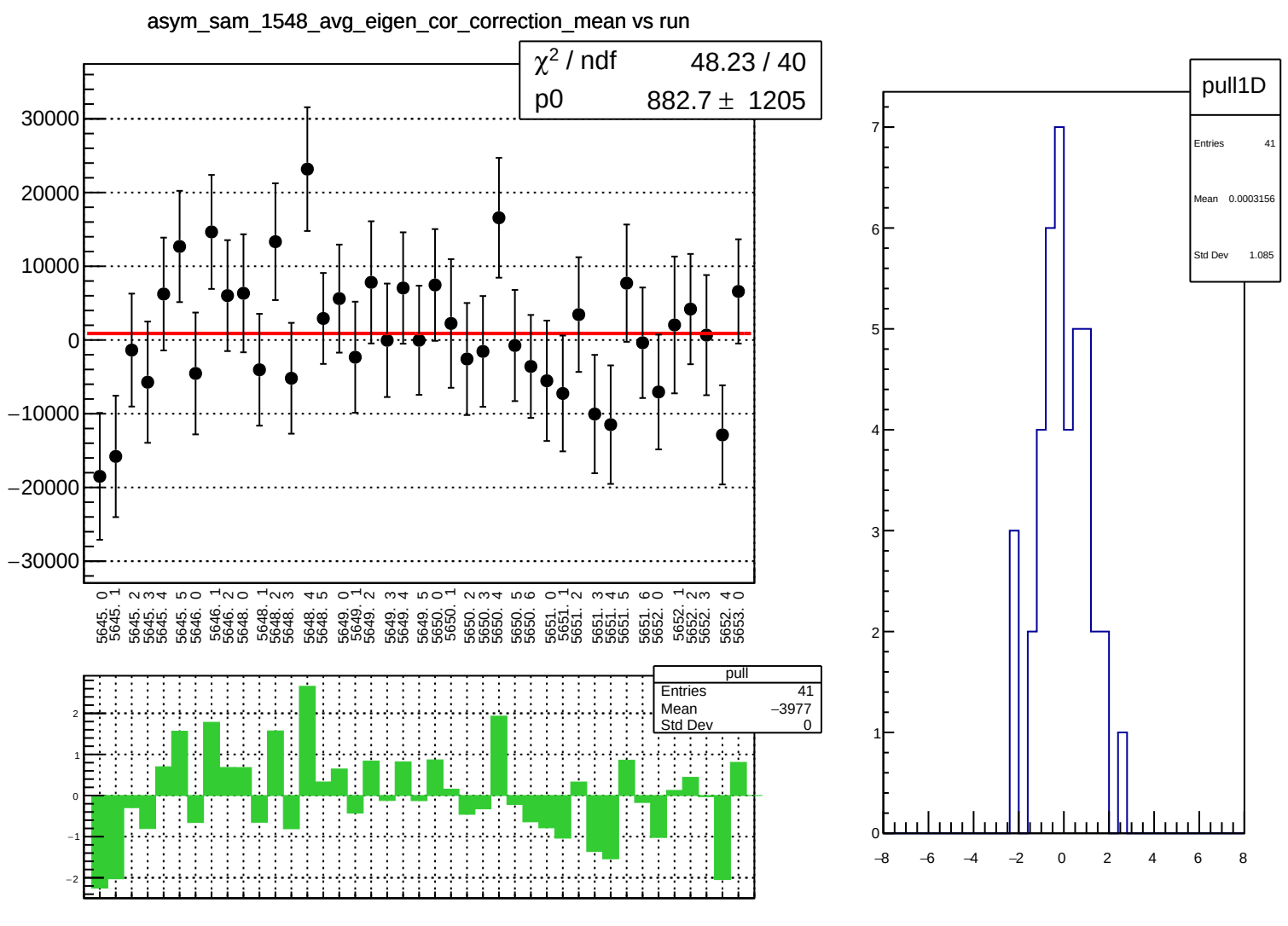
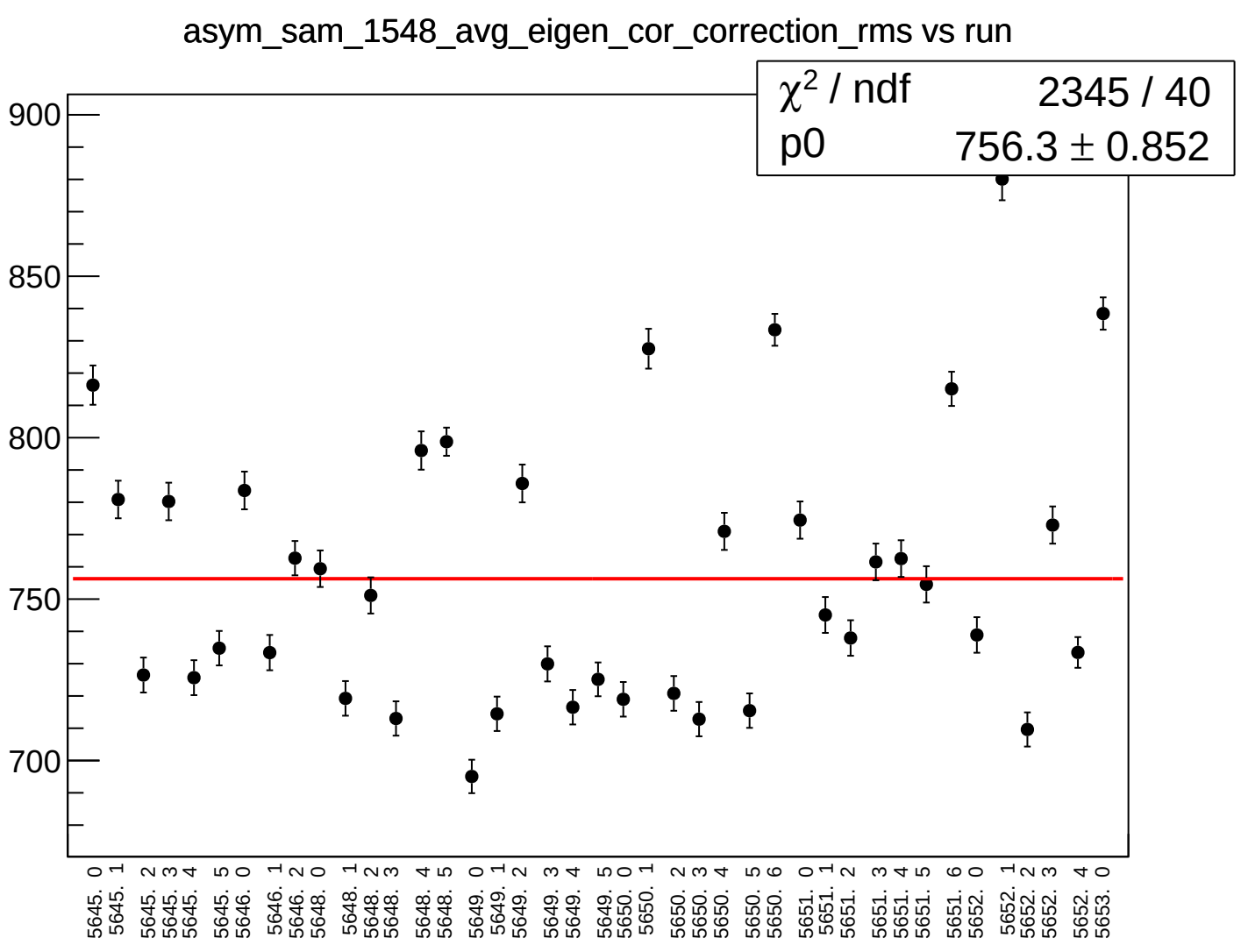
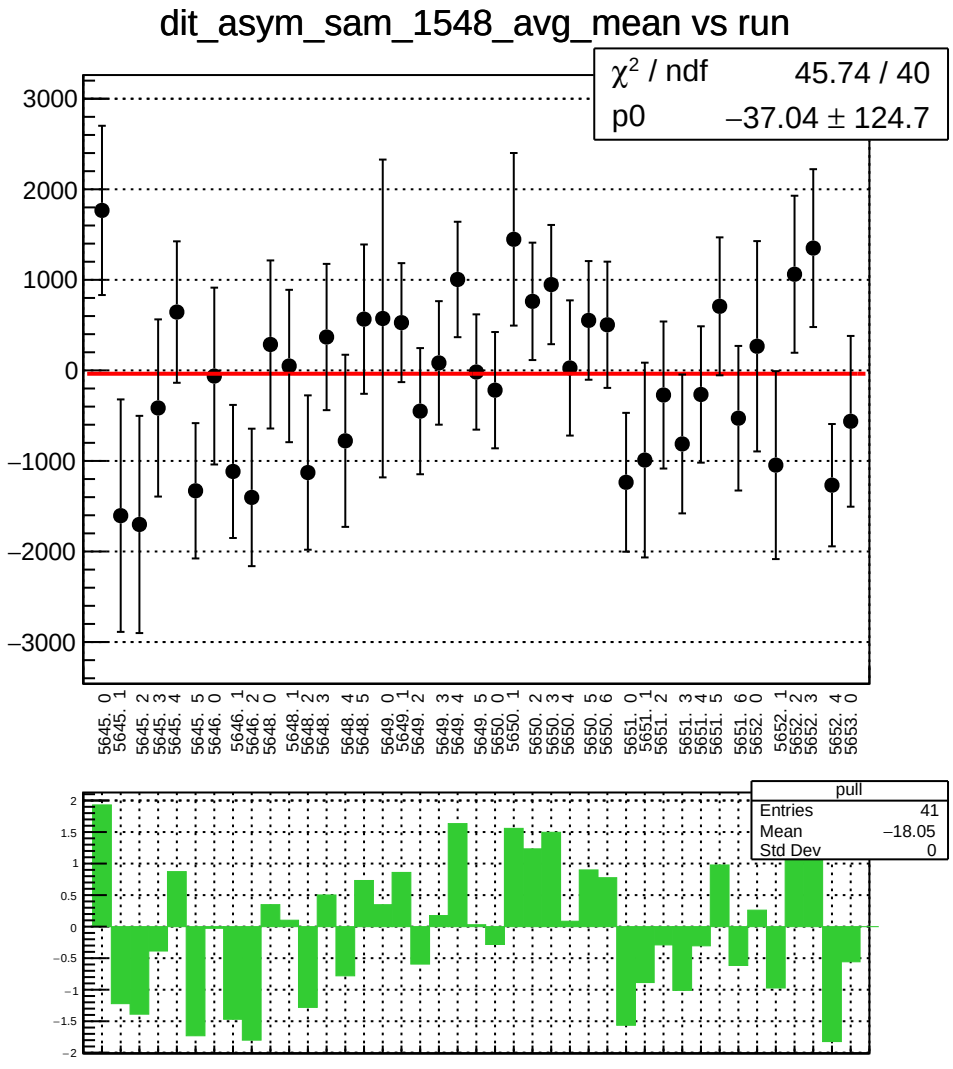
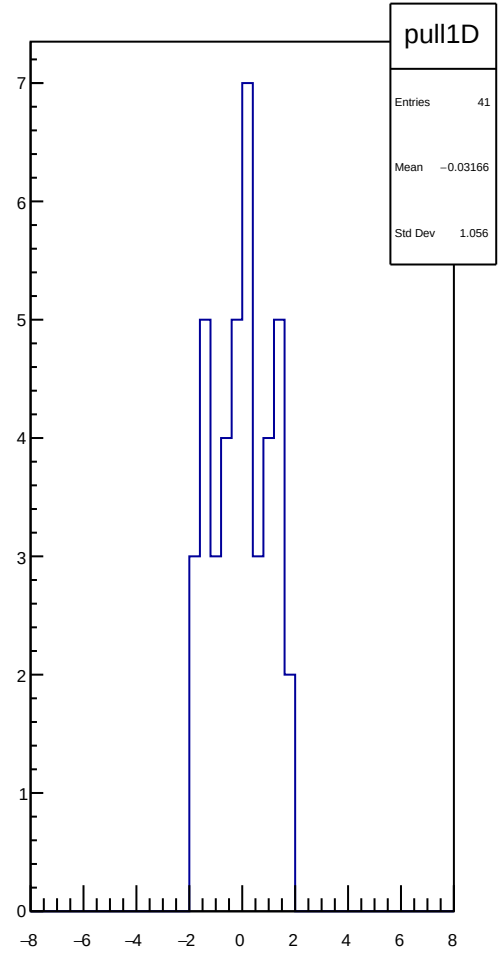
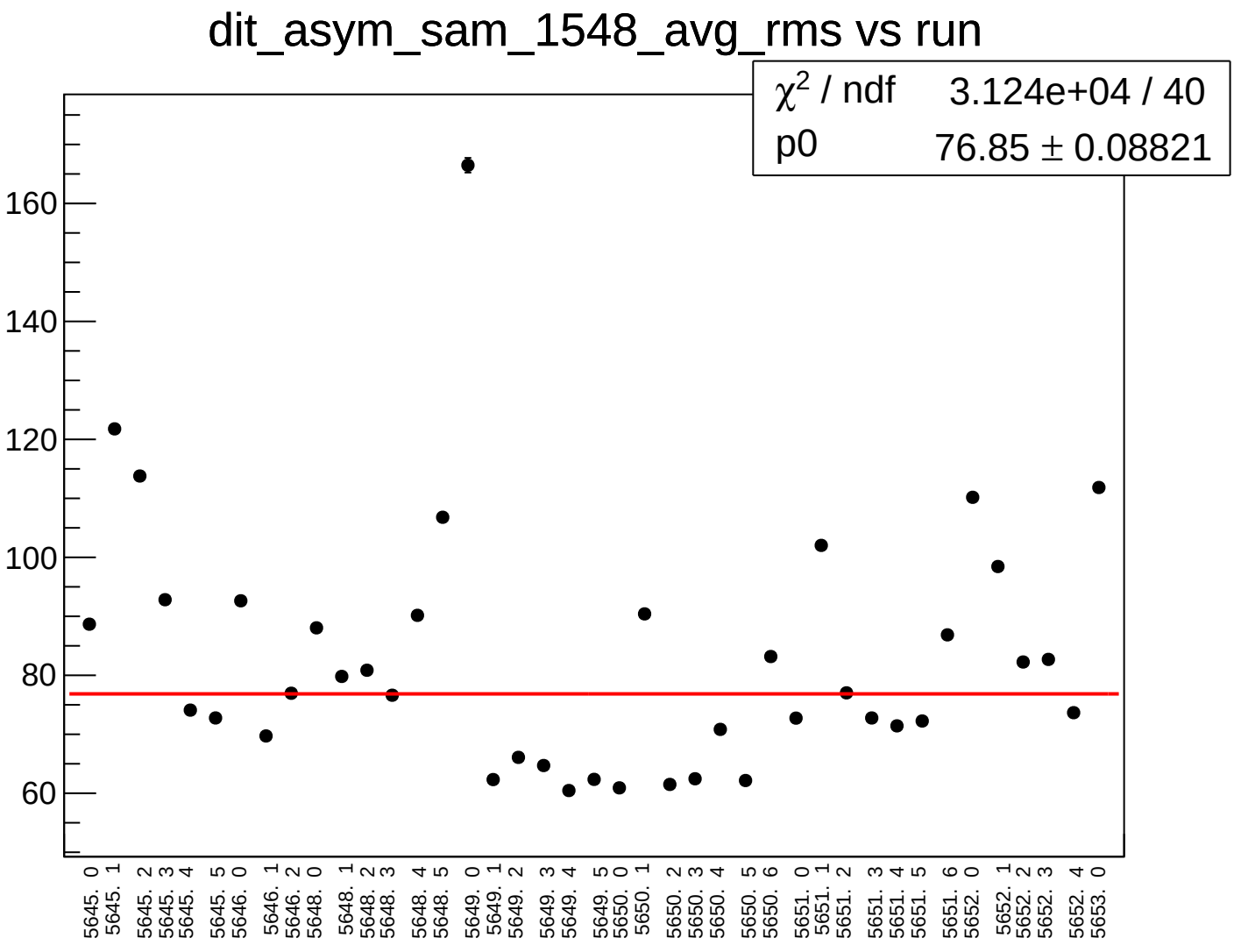
5652. 2
5652. 3
5652. 4
5653. 0

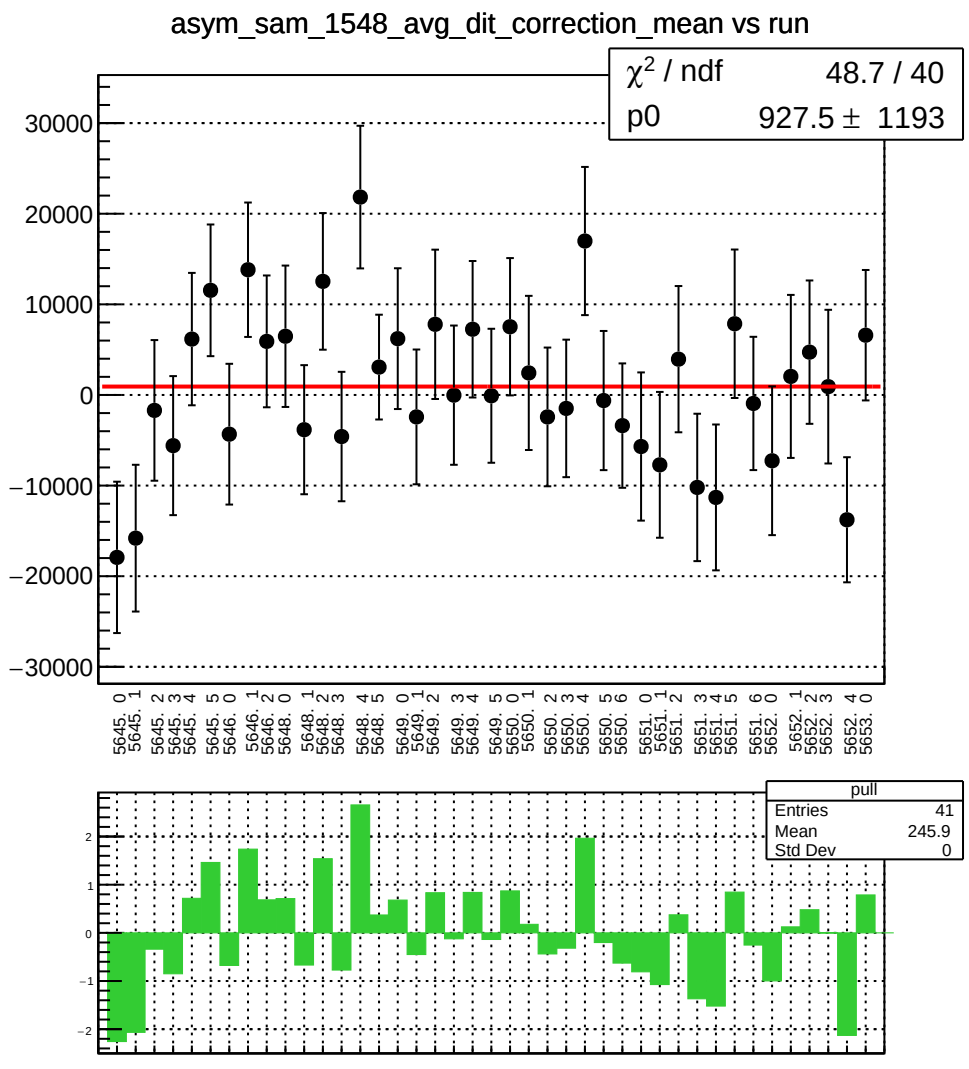

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 48.23 / 40
p0 882.7 ± 1205
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −3977
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.0003156
Std Dev 1.085
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2345 / 40
p0 756.3 ± 0.852
900
850
800
750
700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_sam_1548_avg_mean vs run
χ² / ndf 45.74 / 40
p0 −37.04 ± 124.7
pull
Entries 41
Mean −18.05
Std Dev 0


pull1D
Entries 41
Mean −0.03166
Std Dev 1.056


dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3.124e+04 / 40
p0 76.85 ± 0.08821
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 48.7 / 40
p0 927.5 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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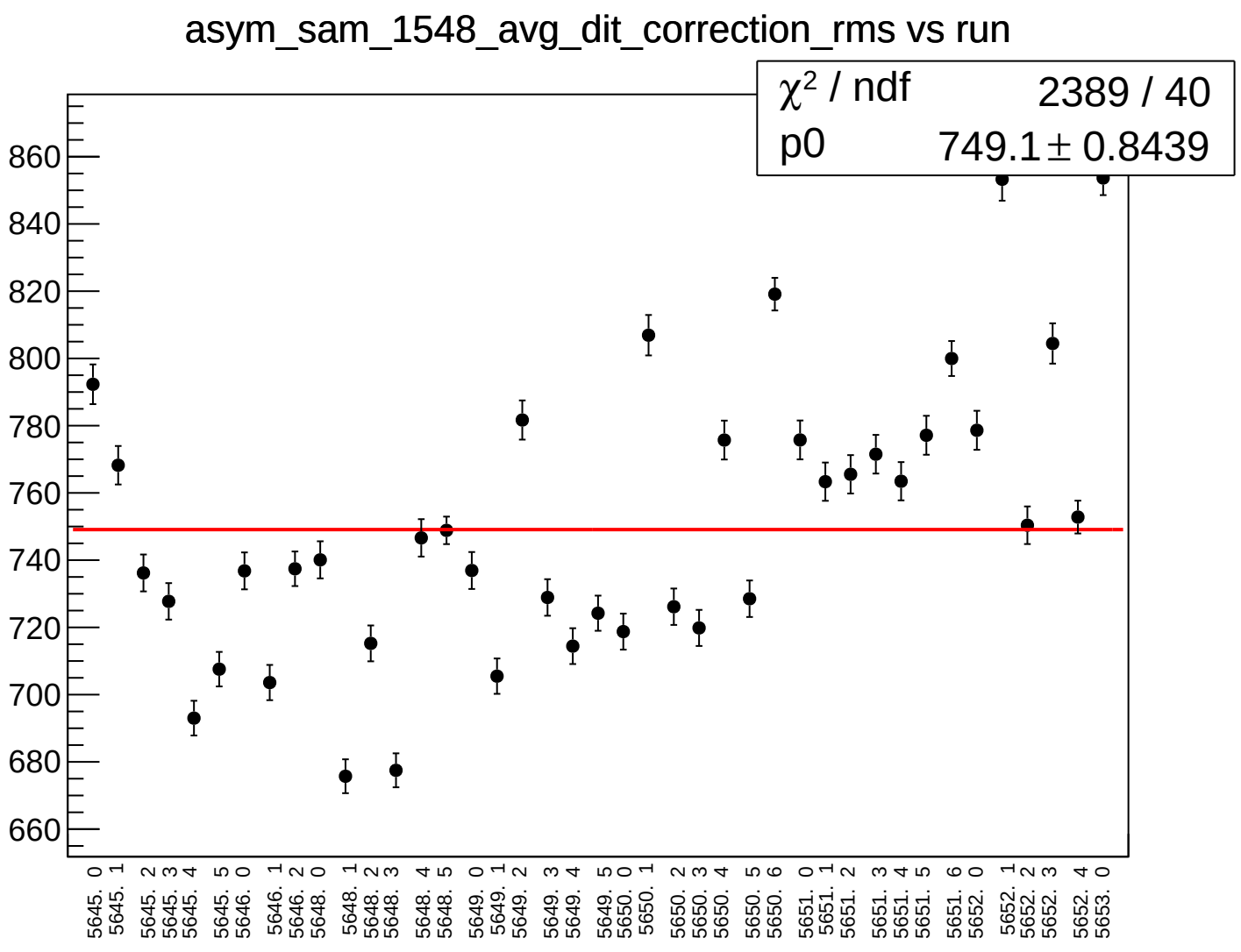
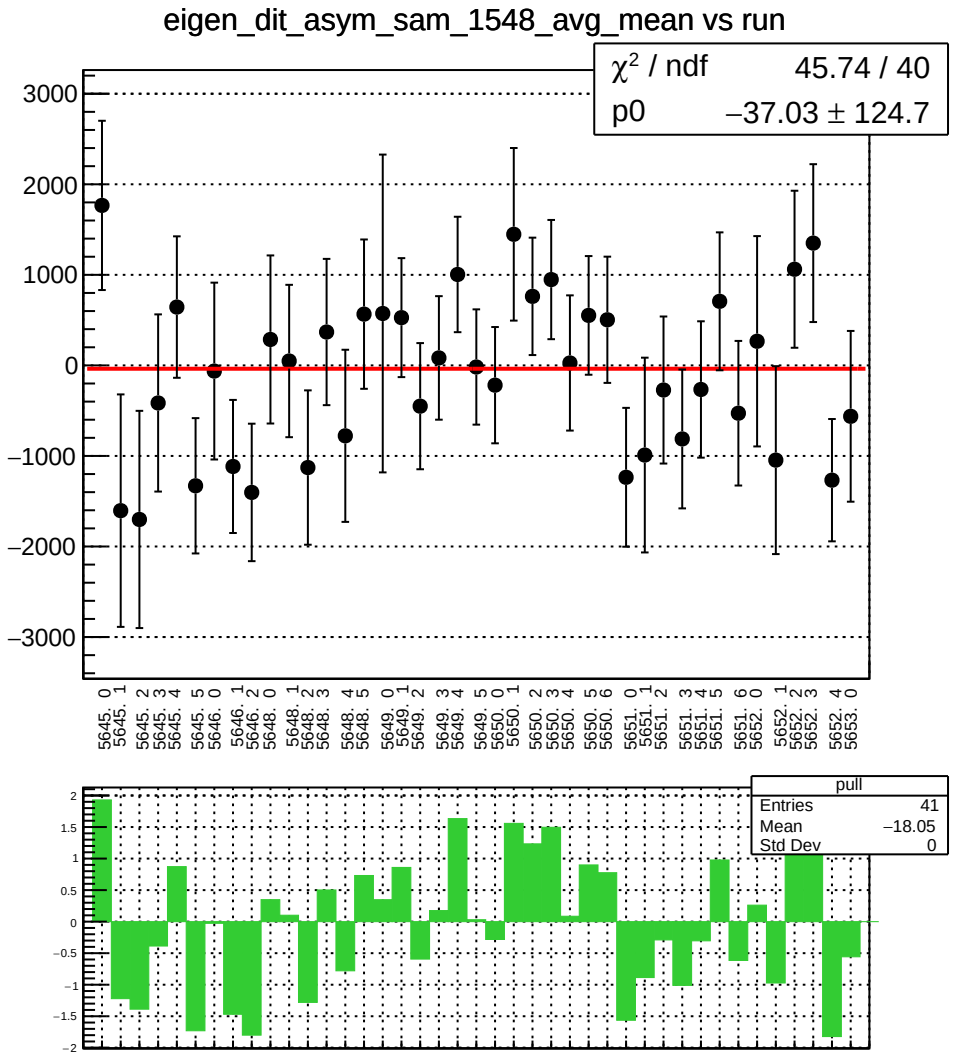
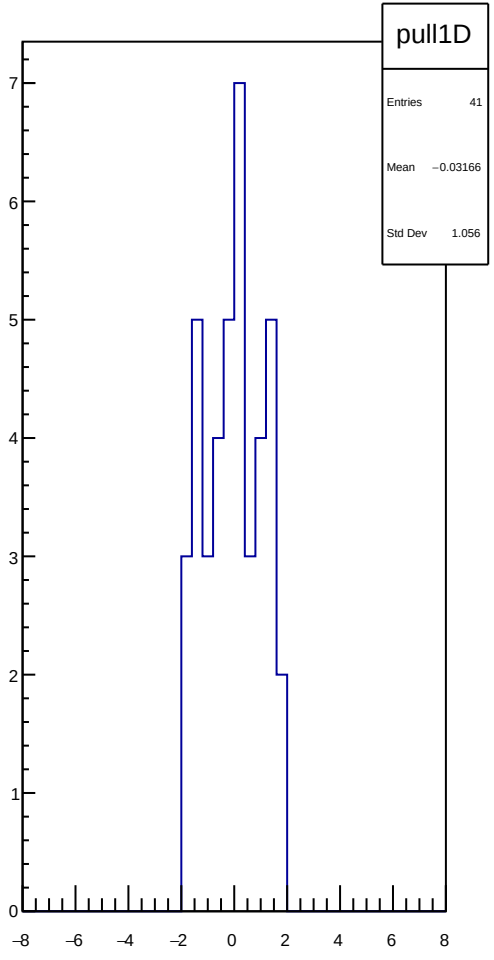
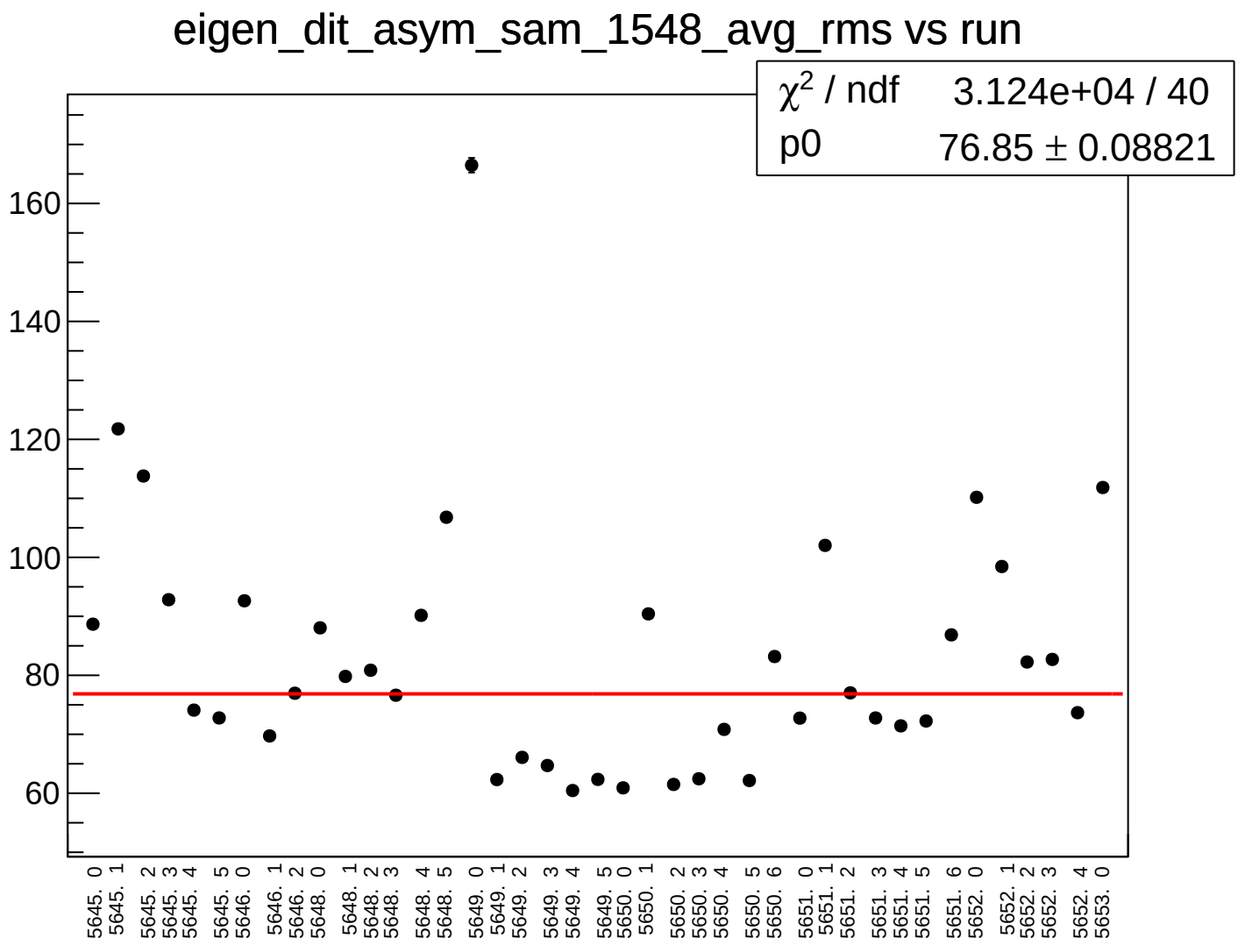
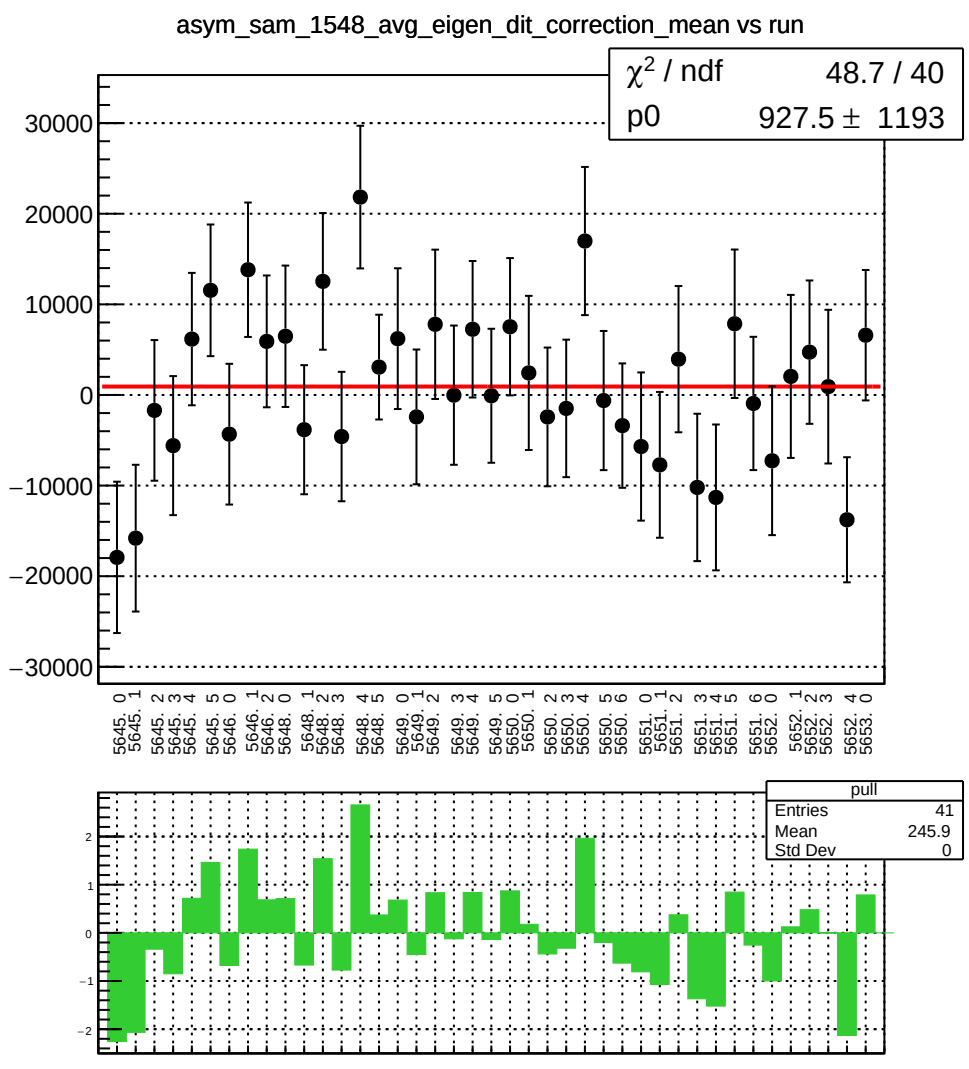
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 245.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.005309
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

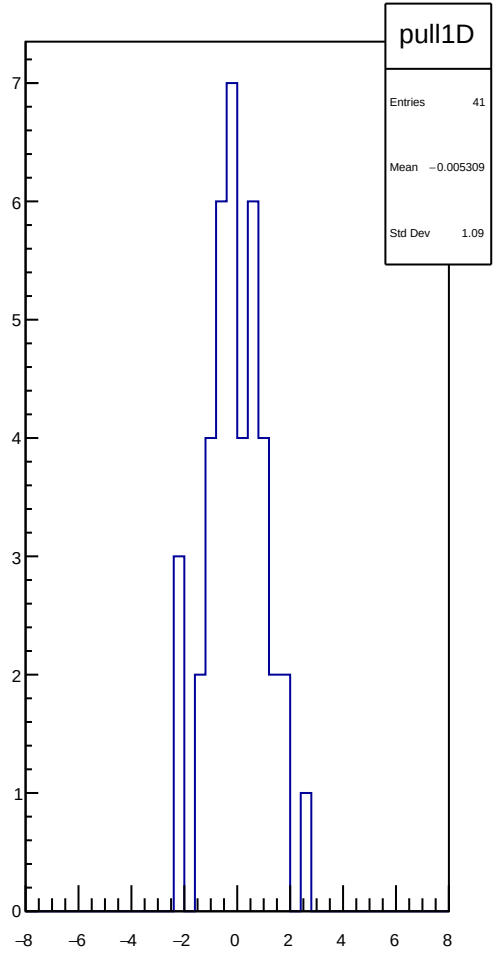

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 2389 / 40
p0 749.1 ± 0.8439
860
840
820
800
780
760
740
720
700
680
660
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

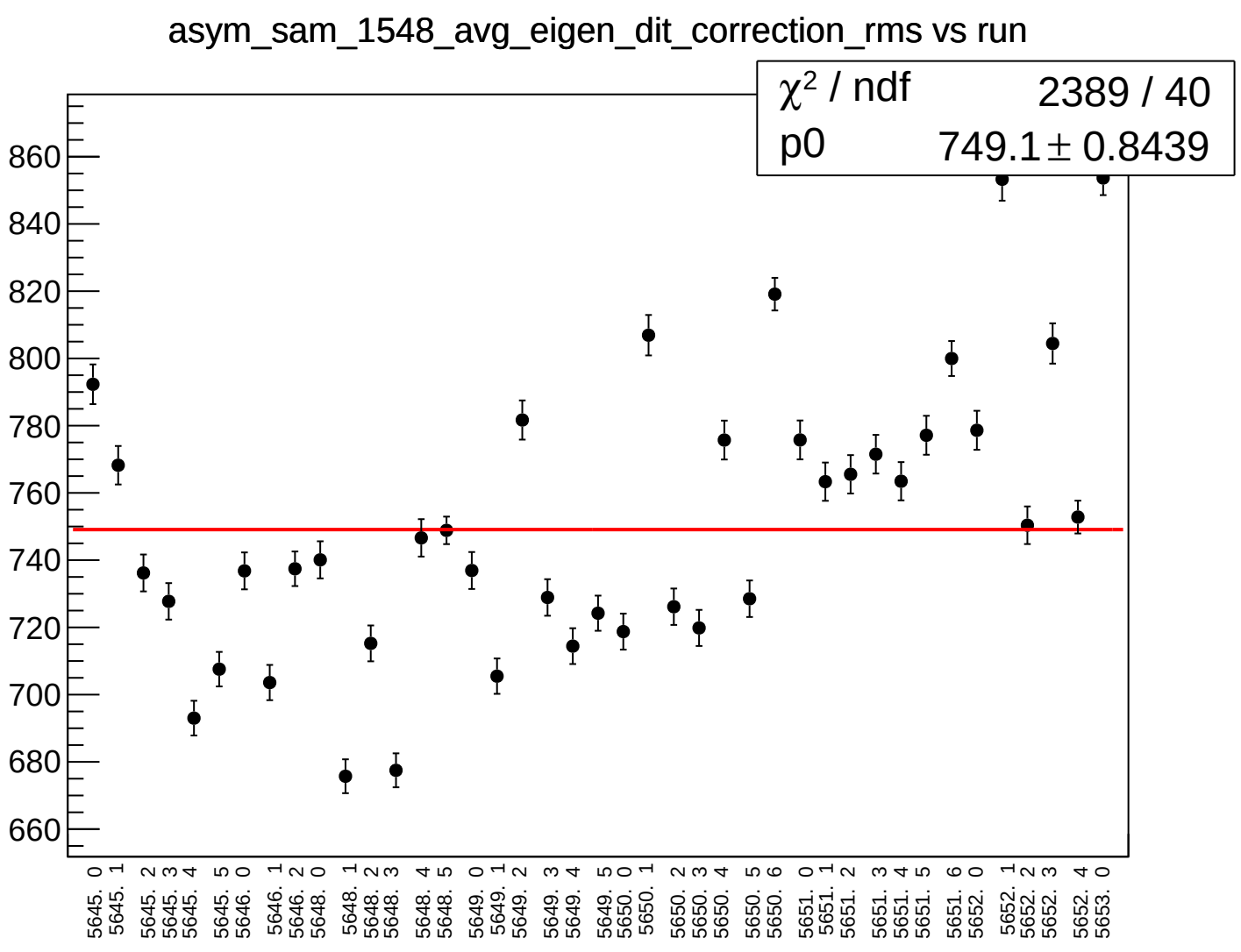

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 45.74 / 40
p0 −37.03 ± 124.7
pull
Entries 41
Mean −18.05
Std Dev 0

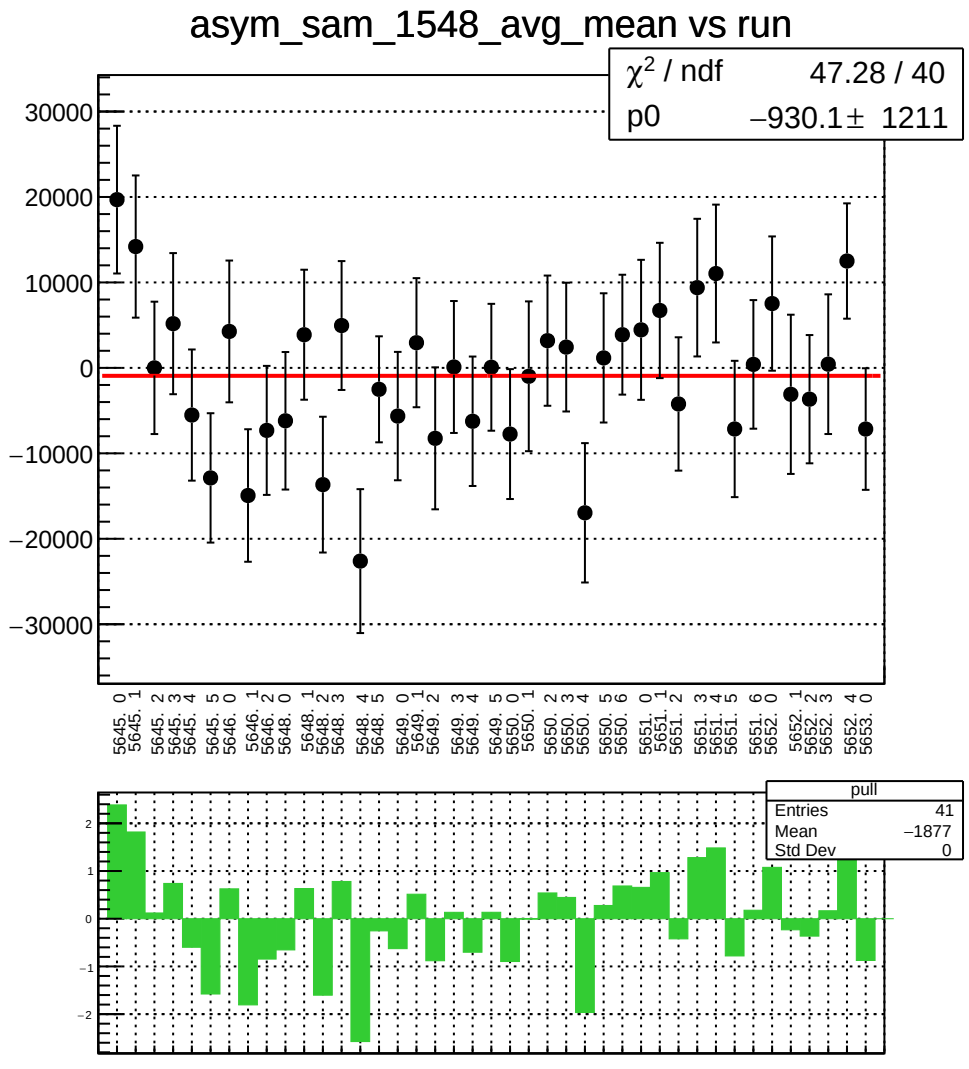

pull1D
Entries 41
Mean −0.03166
Std Dev 1.056

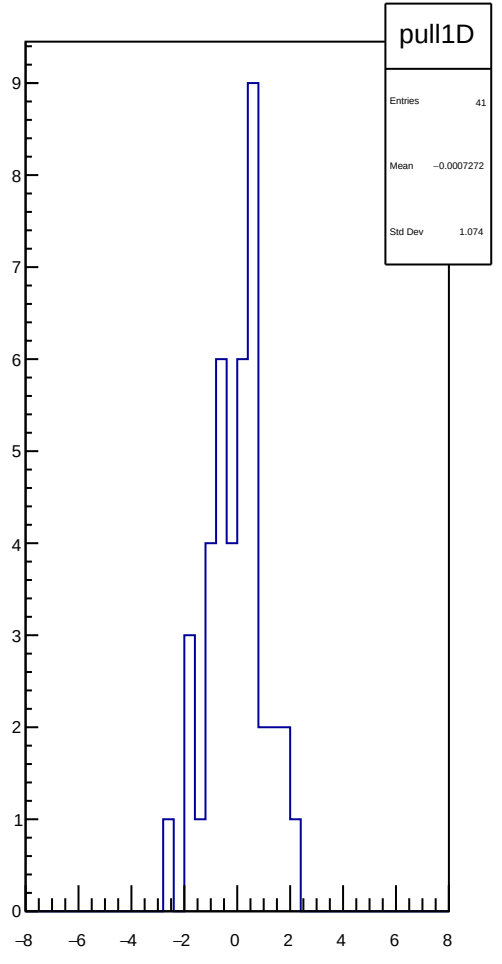

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3.124e+04 / 40
p0 76.85 ± 0.08821
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

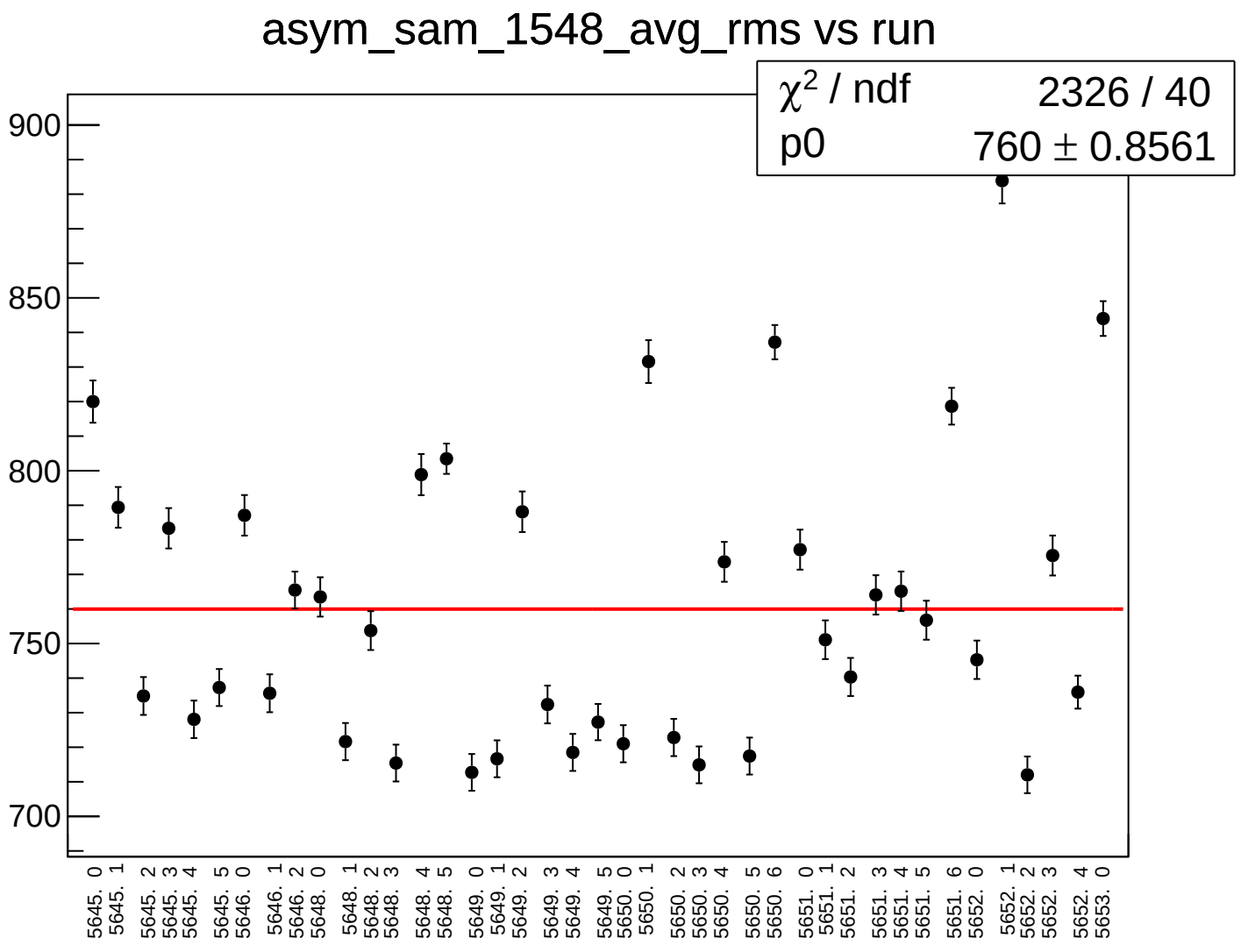

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 48.7 / 40
p0 927.5 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 245.9
Std Dev 0
2
1
0
−1
−2

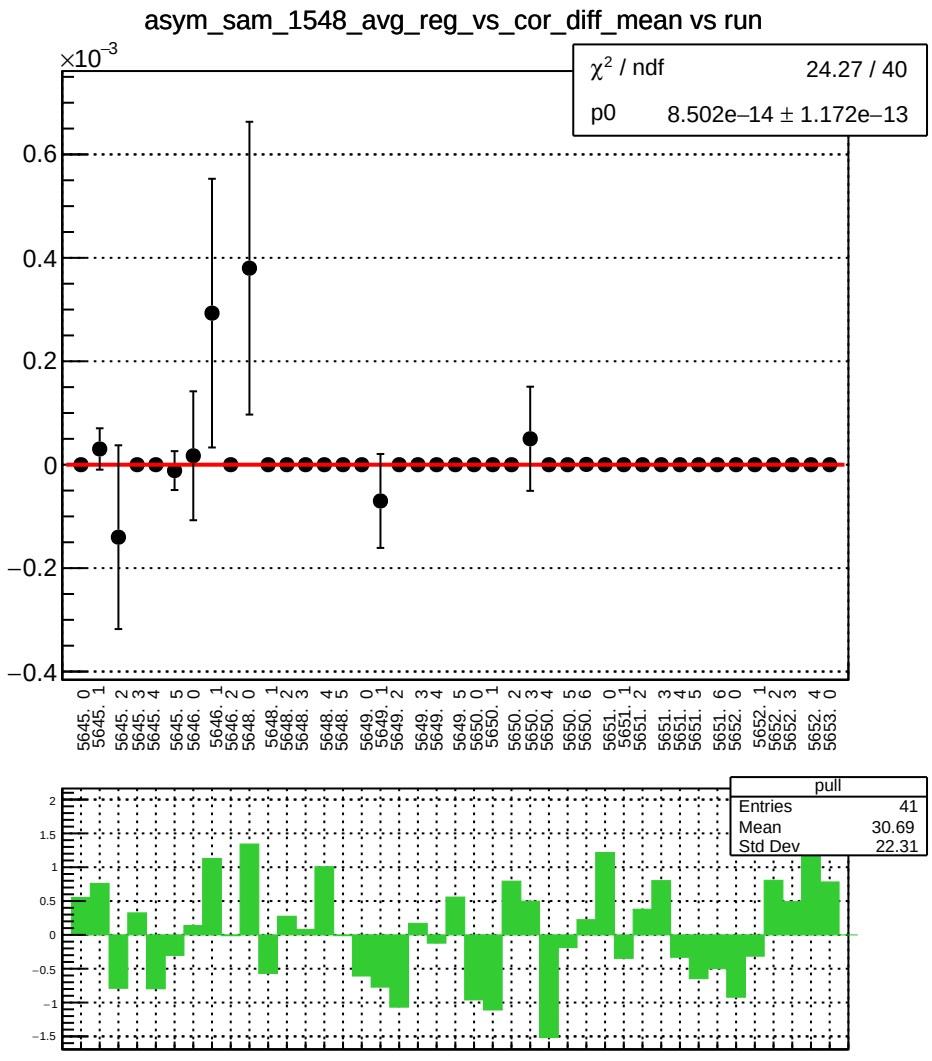

pull1D
Entries 41
Mean −0.005309
Std Dev 1.09
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

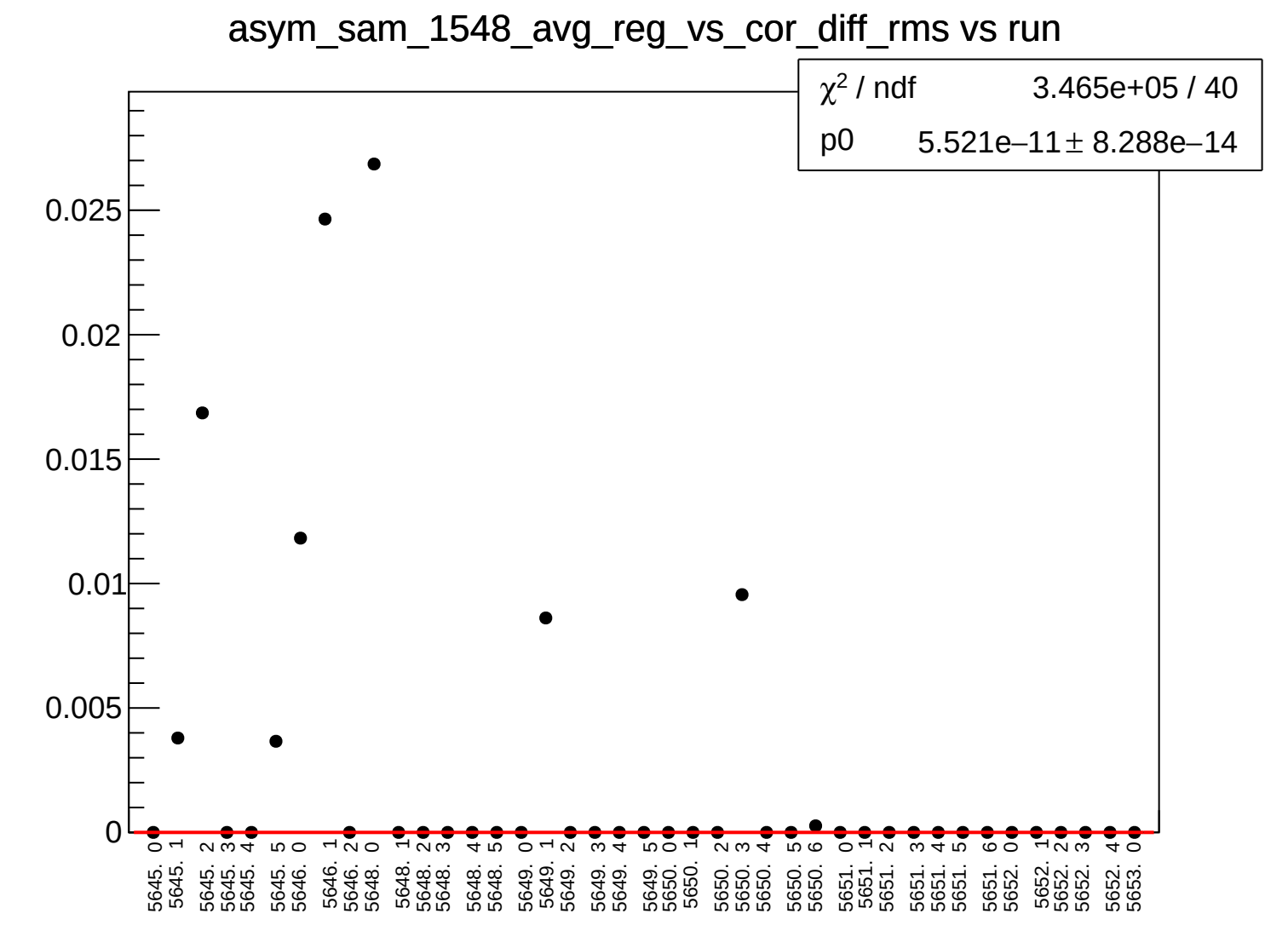

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 2389 / 40
p0 749.1 ± 0.8439
860
840
820
800
780
760
740
720
700
680
660
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

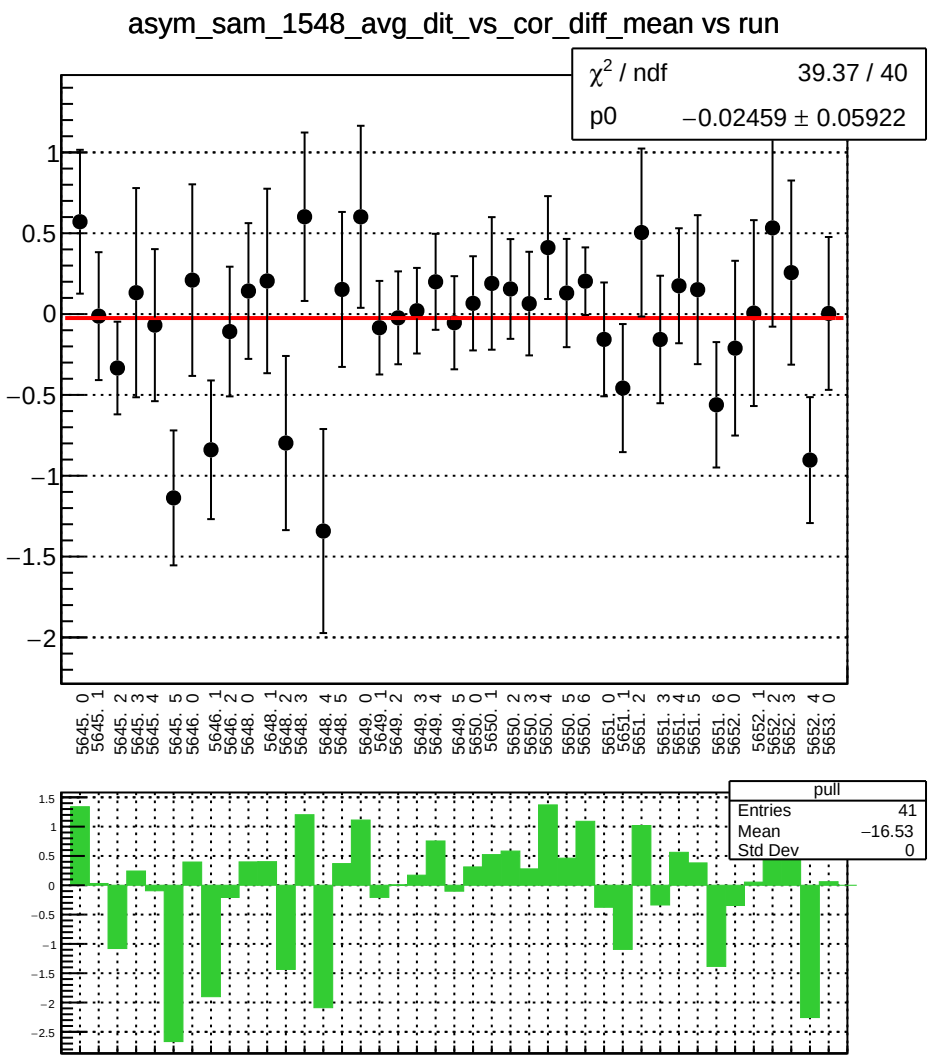

asym_sam_1548_avg_mean vs run
χ² / ndf 47.28 / 40
p0 −930.1± 1211
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1877
Std Dev 0
2
1
0
−1
−2

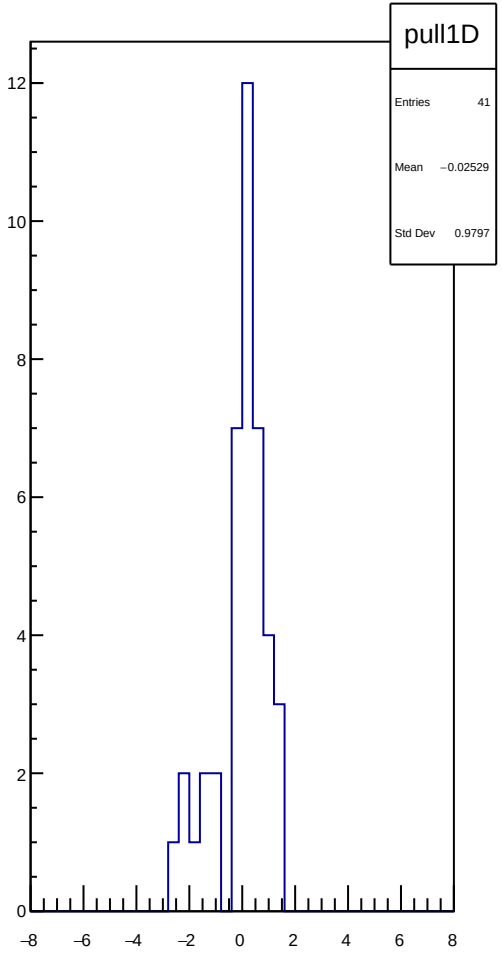

pull1D
Entries 41
Mean −0.0007272
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

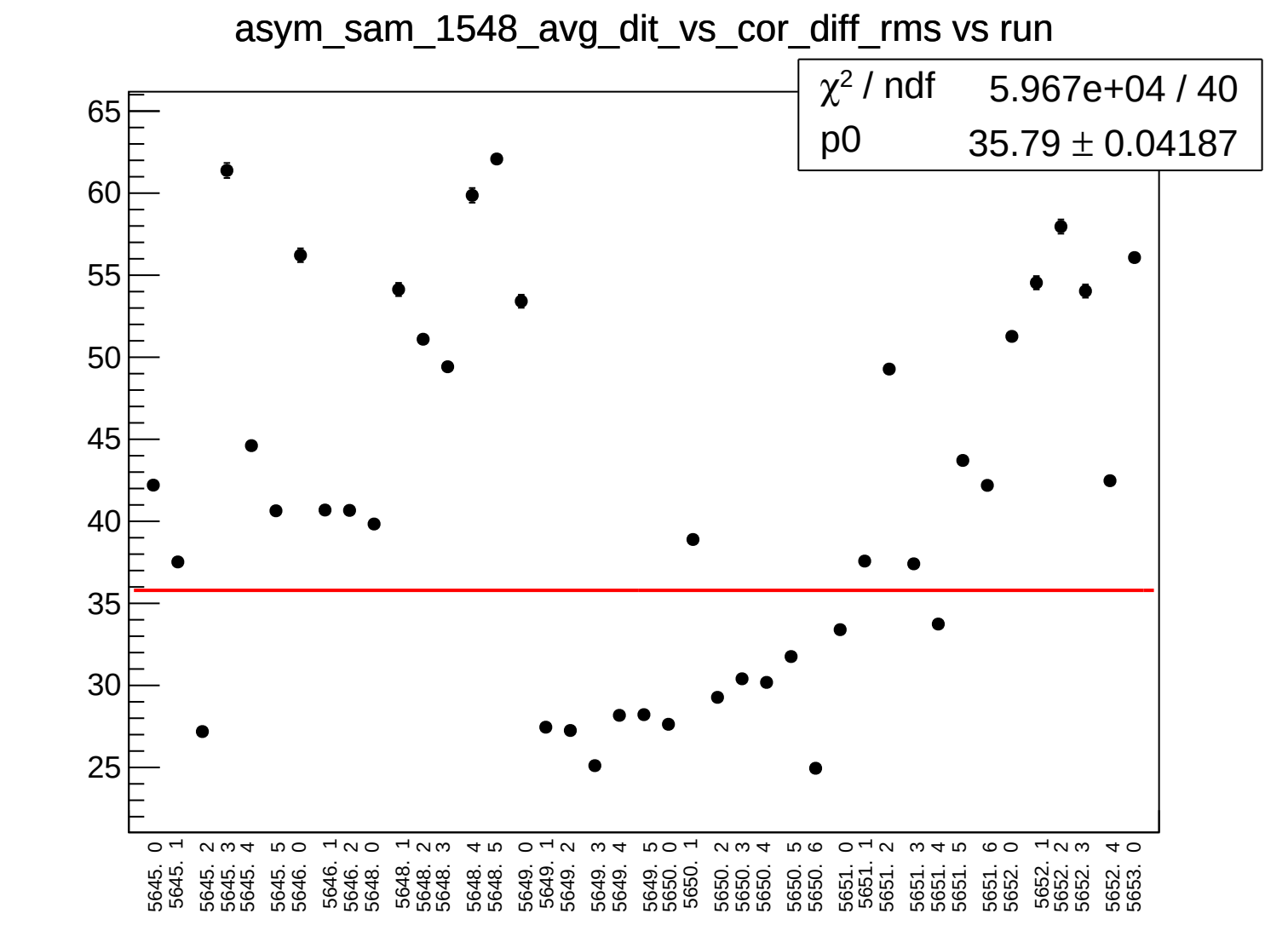

asym_sam_1548_avg_rms vs run
χ² / ndf 2326 / 40
p0 760 ± 0.8561
900
850
800
750
700
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

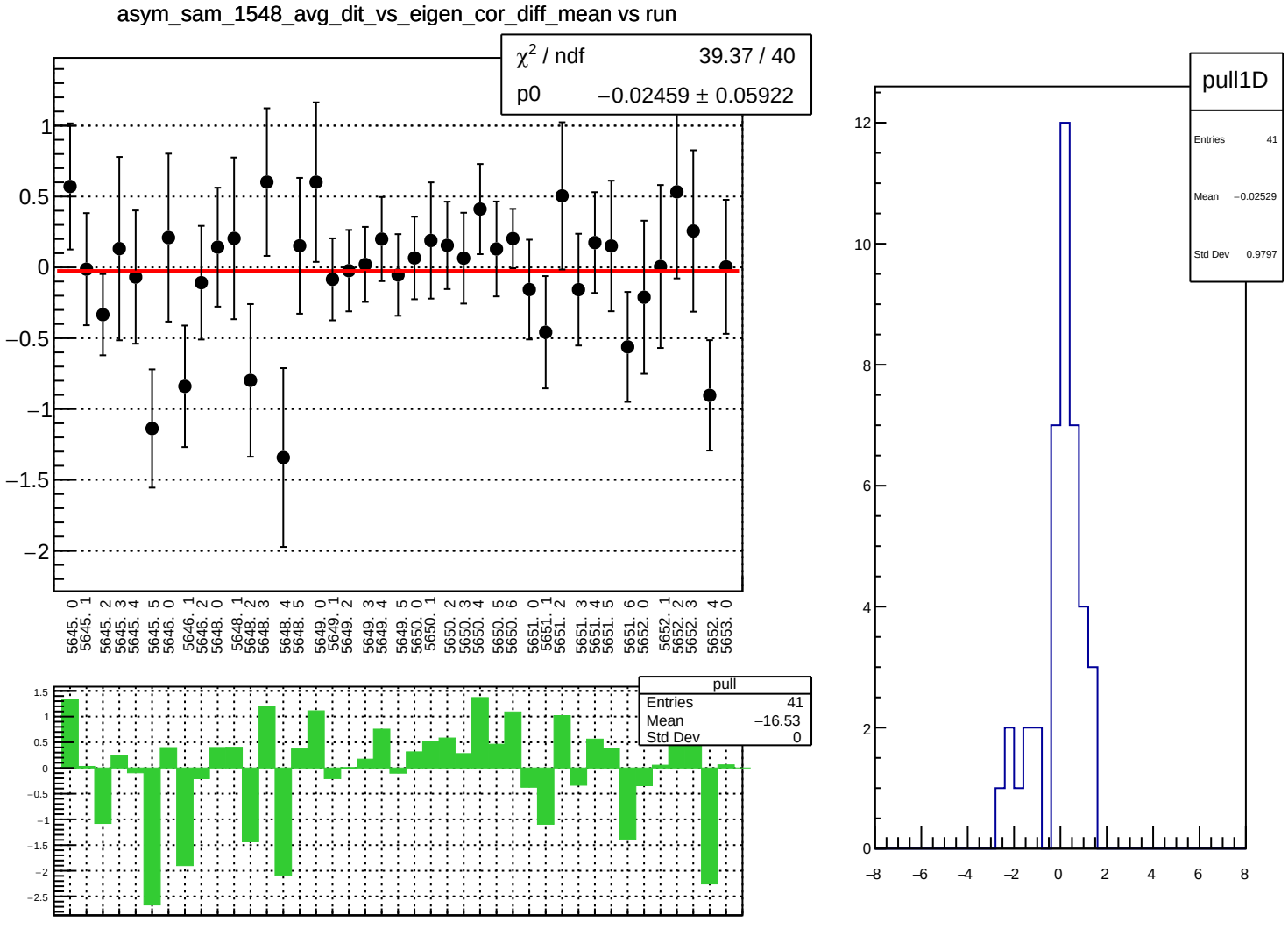

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 24.27 / 40
p0 8.502e−14 ± 1.172e−13
0.6
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.69
Std Dev 22.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.05928
Std Dev 0.7671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

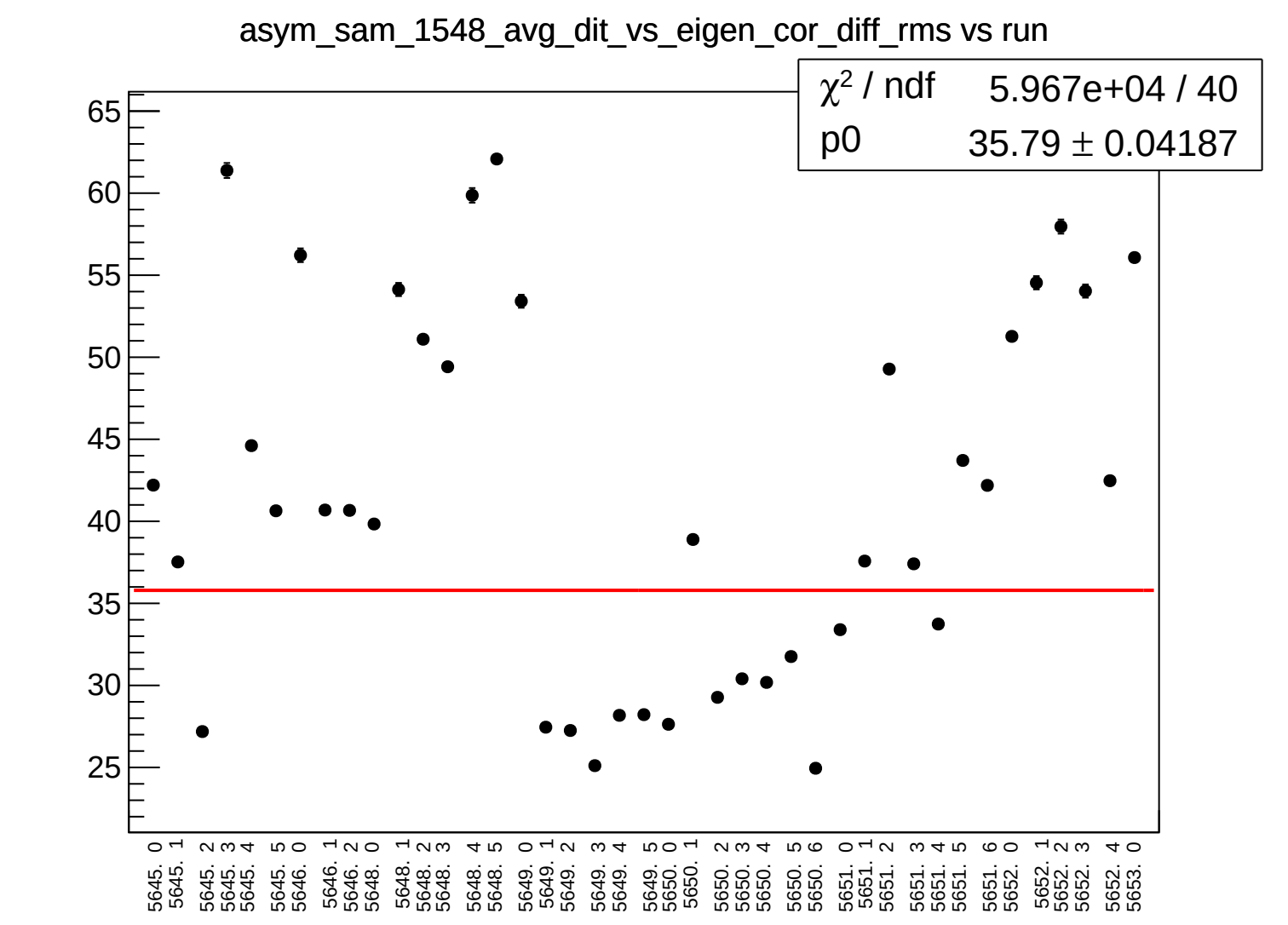

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.465e+05 / 40
p0 5.521e−11 ± 8.288e−14
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

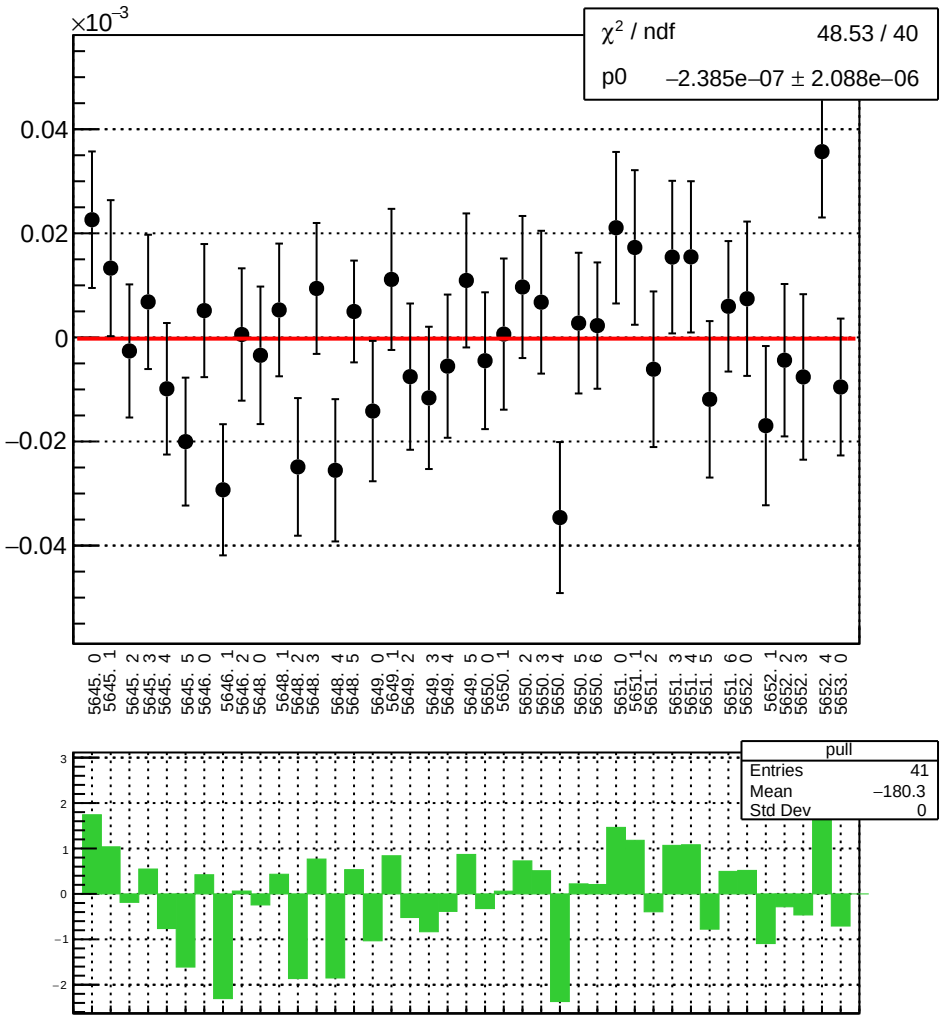

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.37 / 40
p0 −0.02459 ± 0.05922
pull
Entries 41
Mean −16.53
Std Dev 0

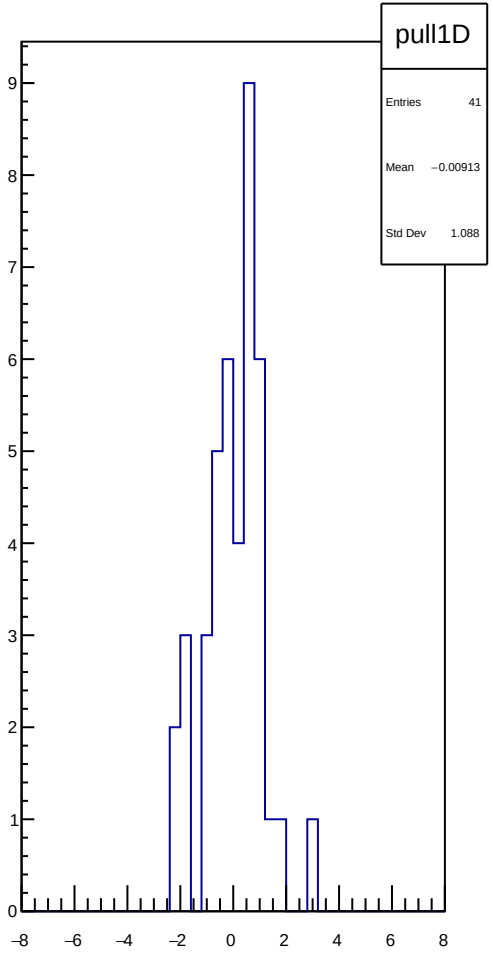

pull1D
Entries 41
Mean −0.02529
Std Dev 0.9797

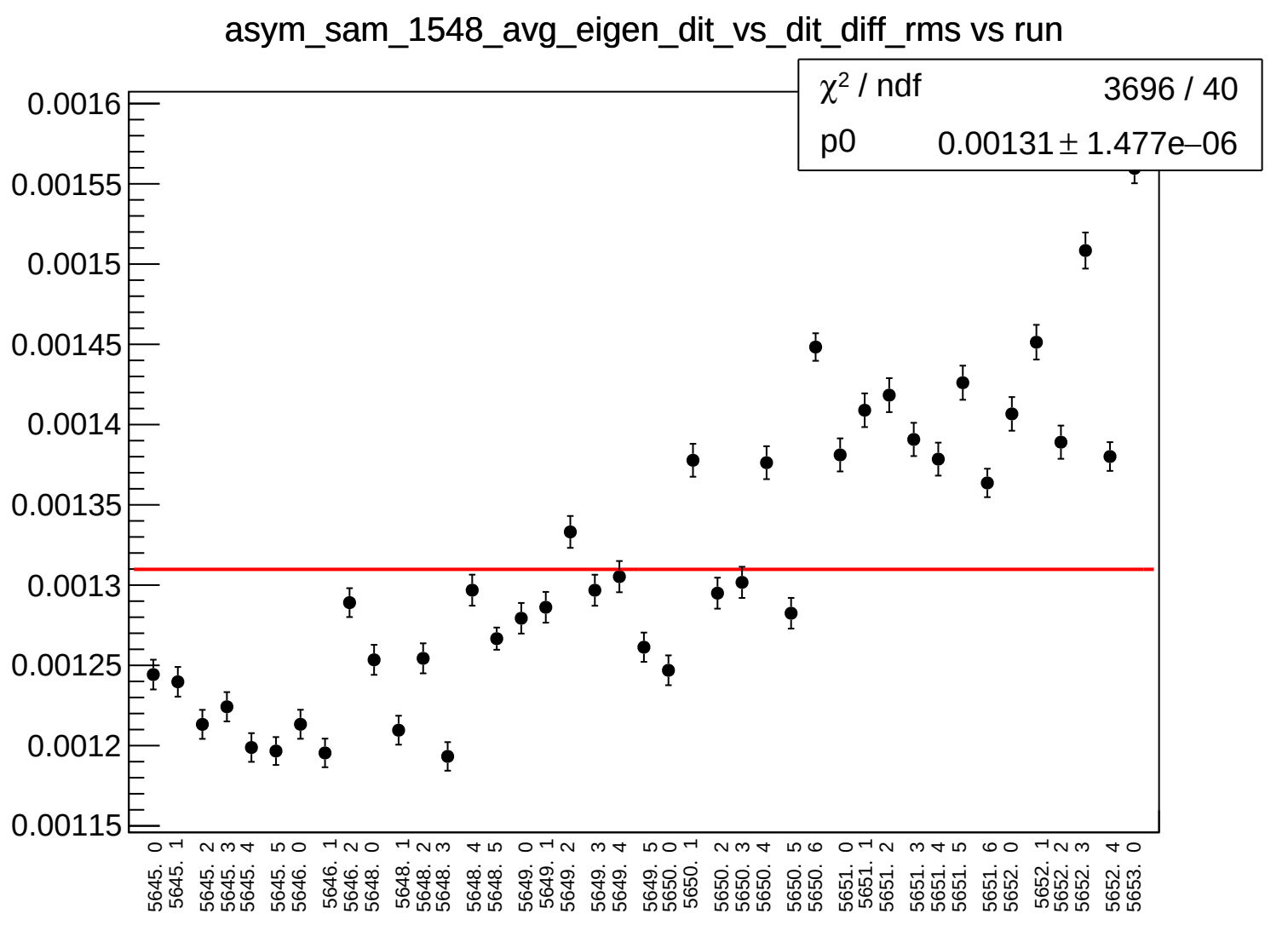

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.967e+04 / 40
p0 35.79 ± 0.04187
65
60
55
50
45
40
35
30
25
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

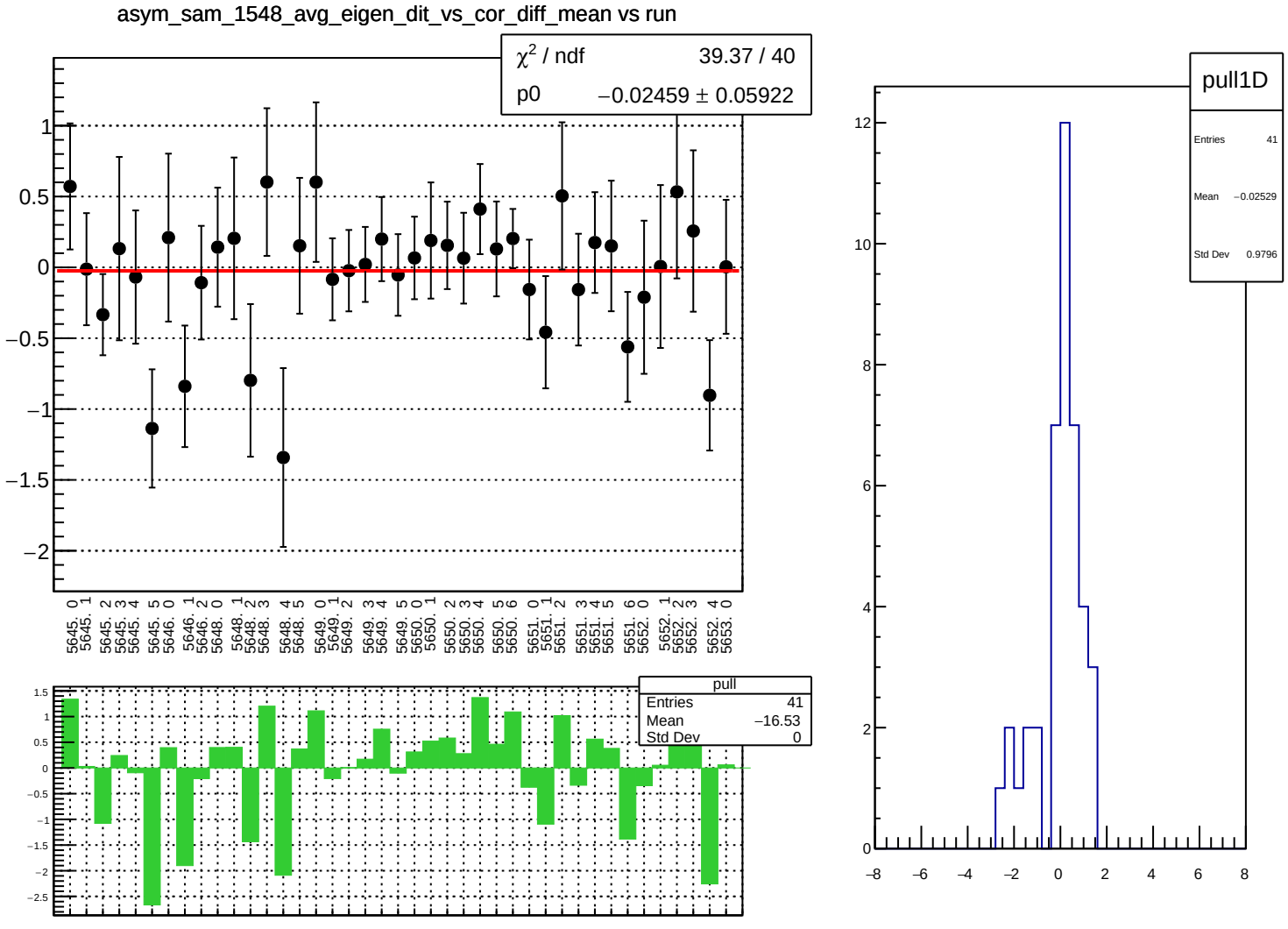

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.37 / 40
p0 −0.02459 ± 0.05922
pull
Entries 41
Mean −16.53
Std Dev 0
pull1D
Entries 41
Mean −0.02529
Std Dev 0.9797

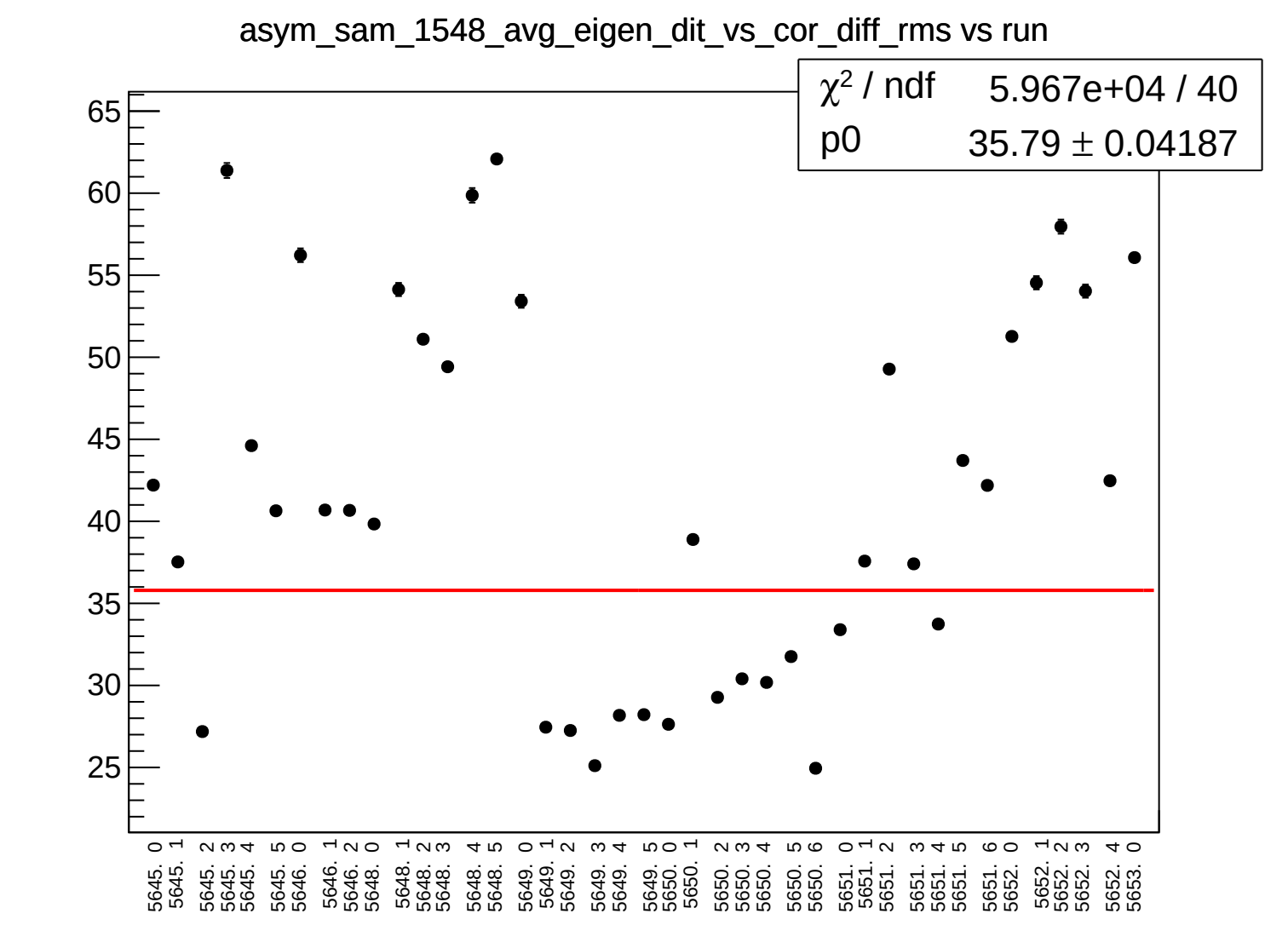

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.967e+04 / 40
p0 35.79 ± 0.04187
65
60
55
50
45
40
35
30
25
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

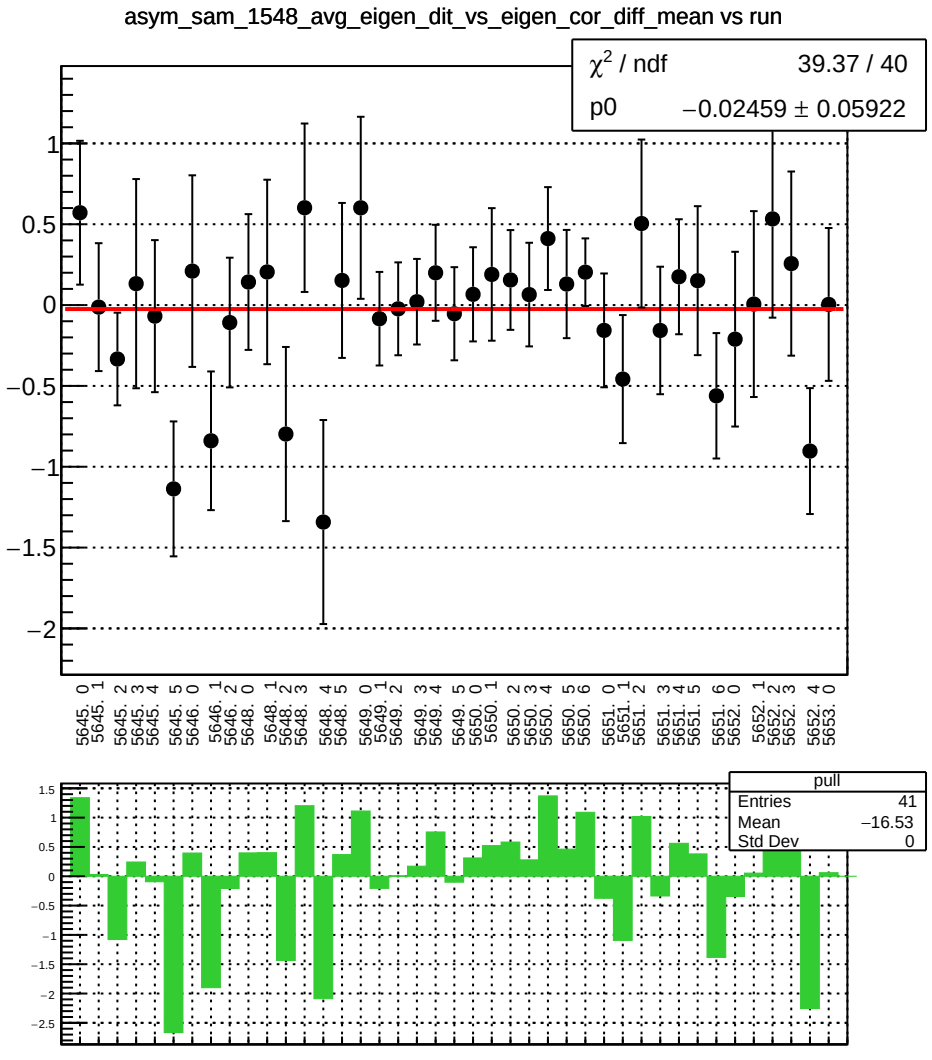

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.53 / 40
p0 −2.385e−07 ± 2.088e−06
0.04
0.02
0
−0.02
−0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −180.3
Std Dev 0
3
2
1
0
−1
−2

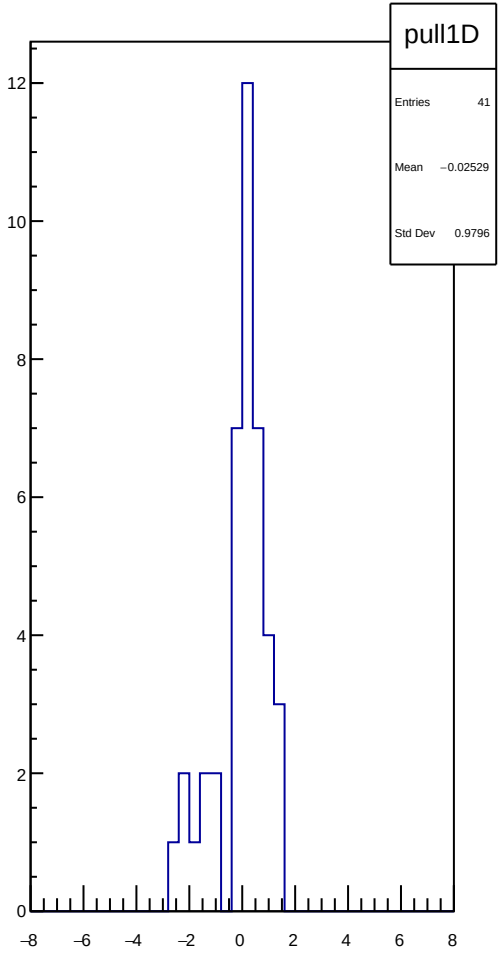

pull1D
Entries 41
Mean −0.00913
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

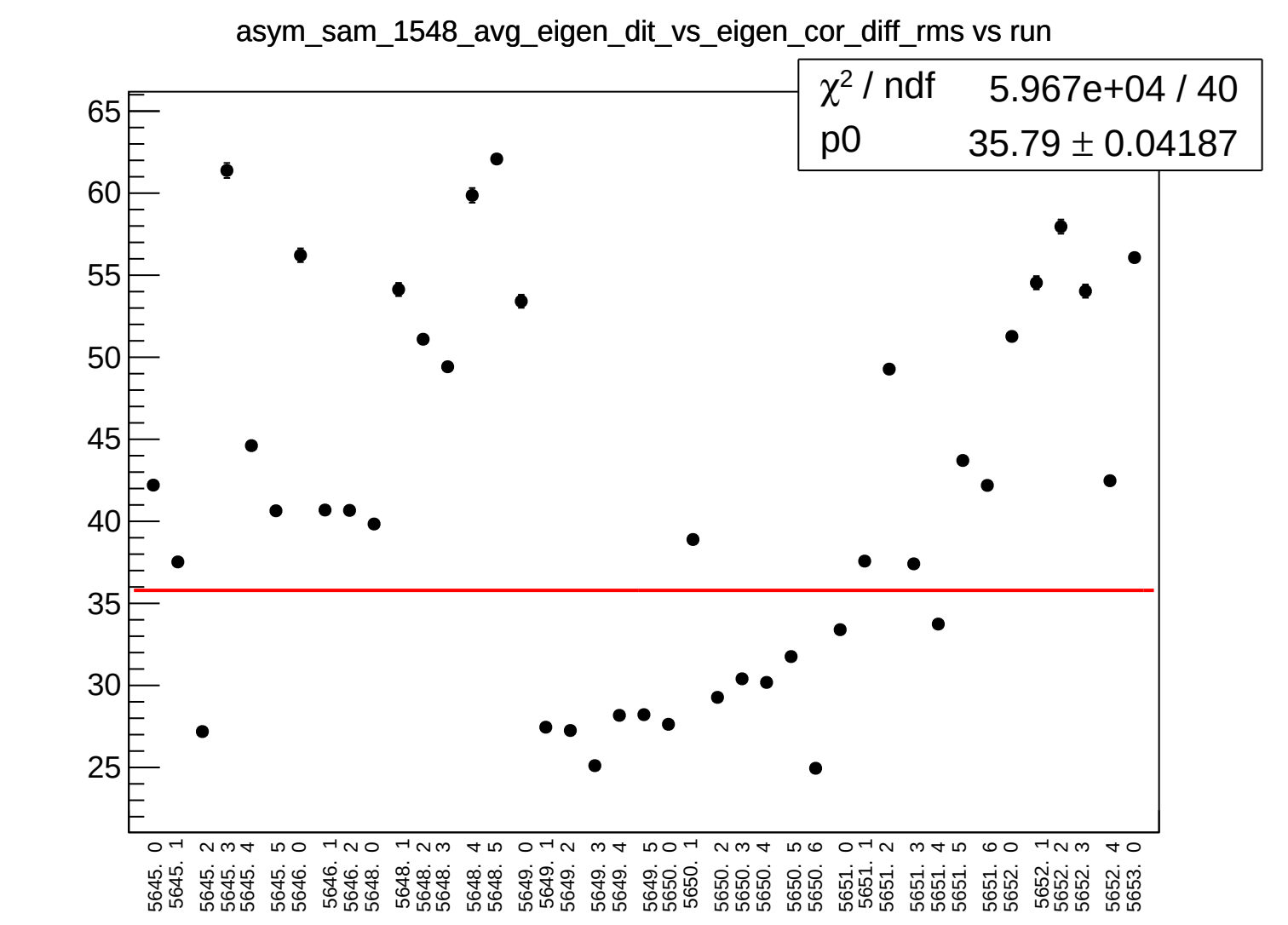

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3696 / 40
p0 0.00131 ± 1.477e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

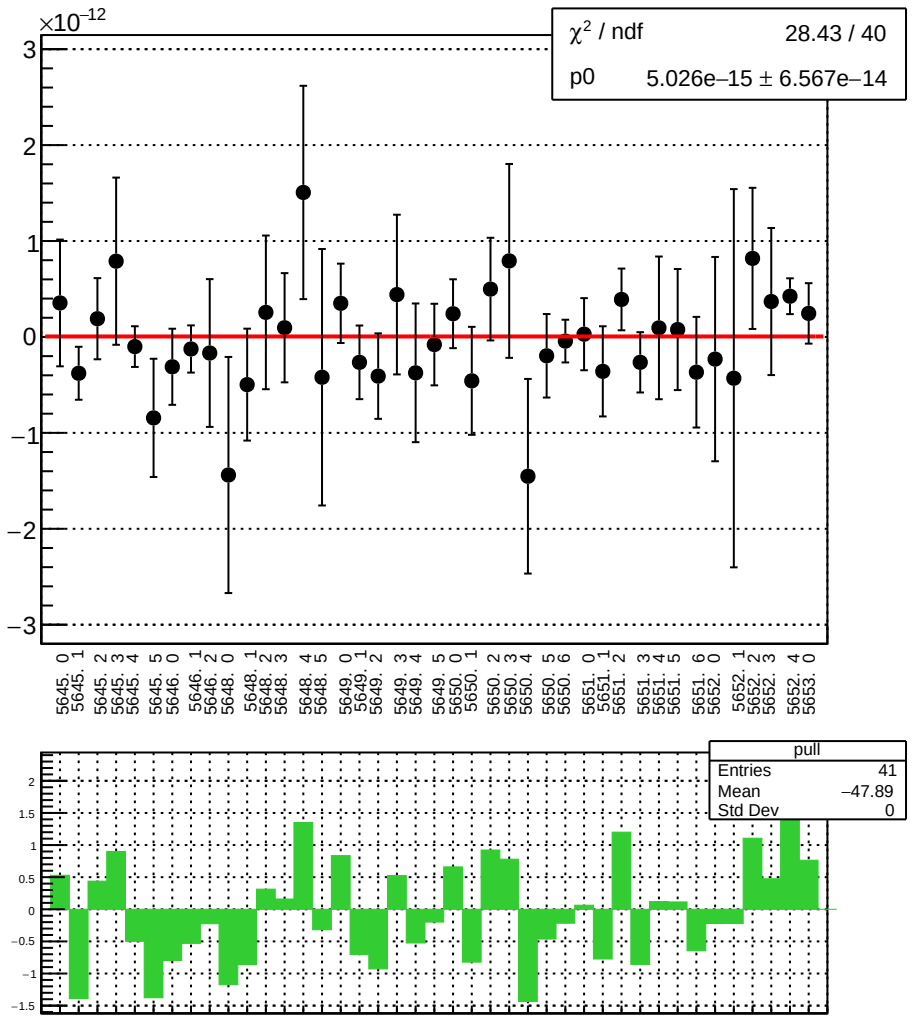

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.37 / 40
p0 −0.02459 ± 0.05922
pull
Entries 41
Mean −16.53
Std Dev 0
pull1D
Entries 41
Mean −0.02529
Std Dev 0.9796

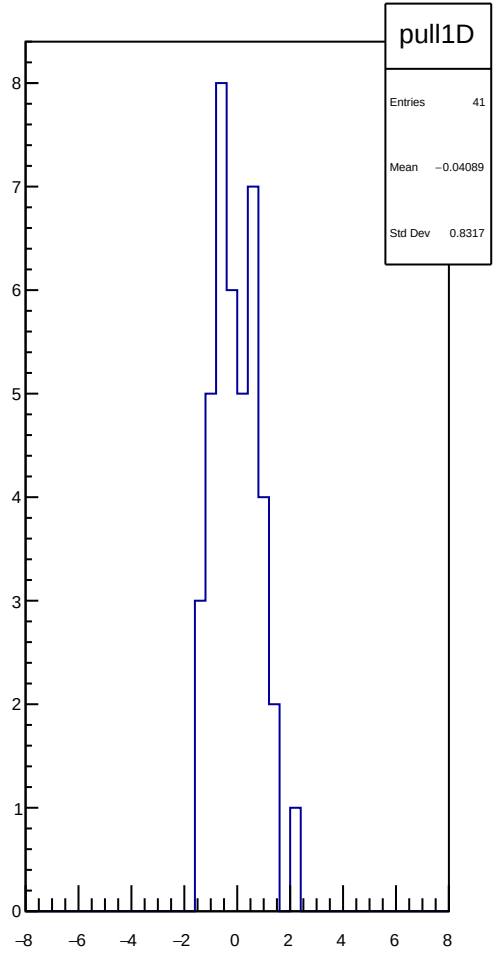

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.967e+04 / 40
p0 35.79 ± 0.04187
65
60
55
50
45
40
35
30
25
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

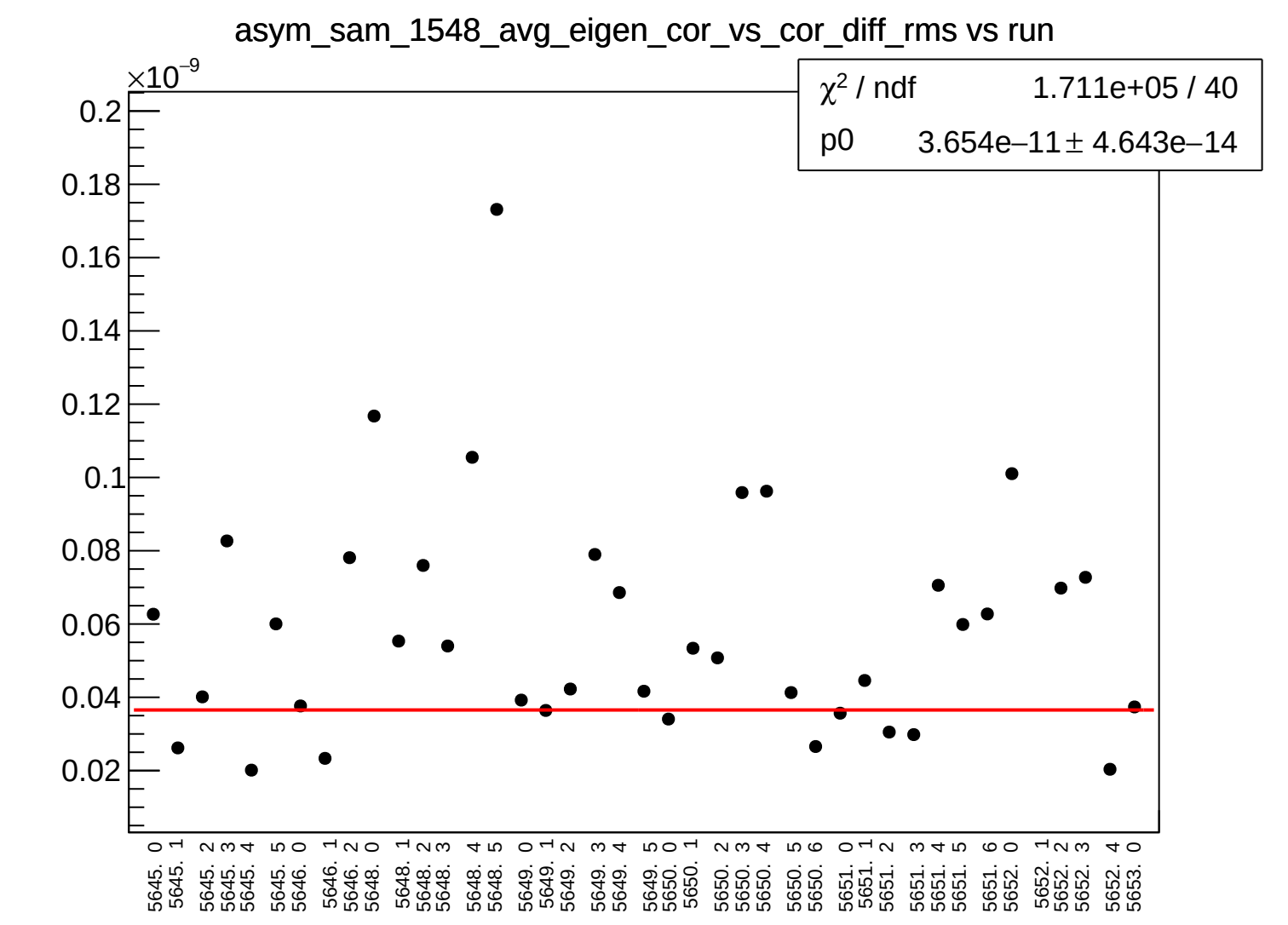

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.37 / 40
p0 −0.02459 ± 0.05922
pull
Entries 41
Mean −16.53
Std Dev 0

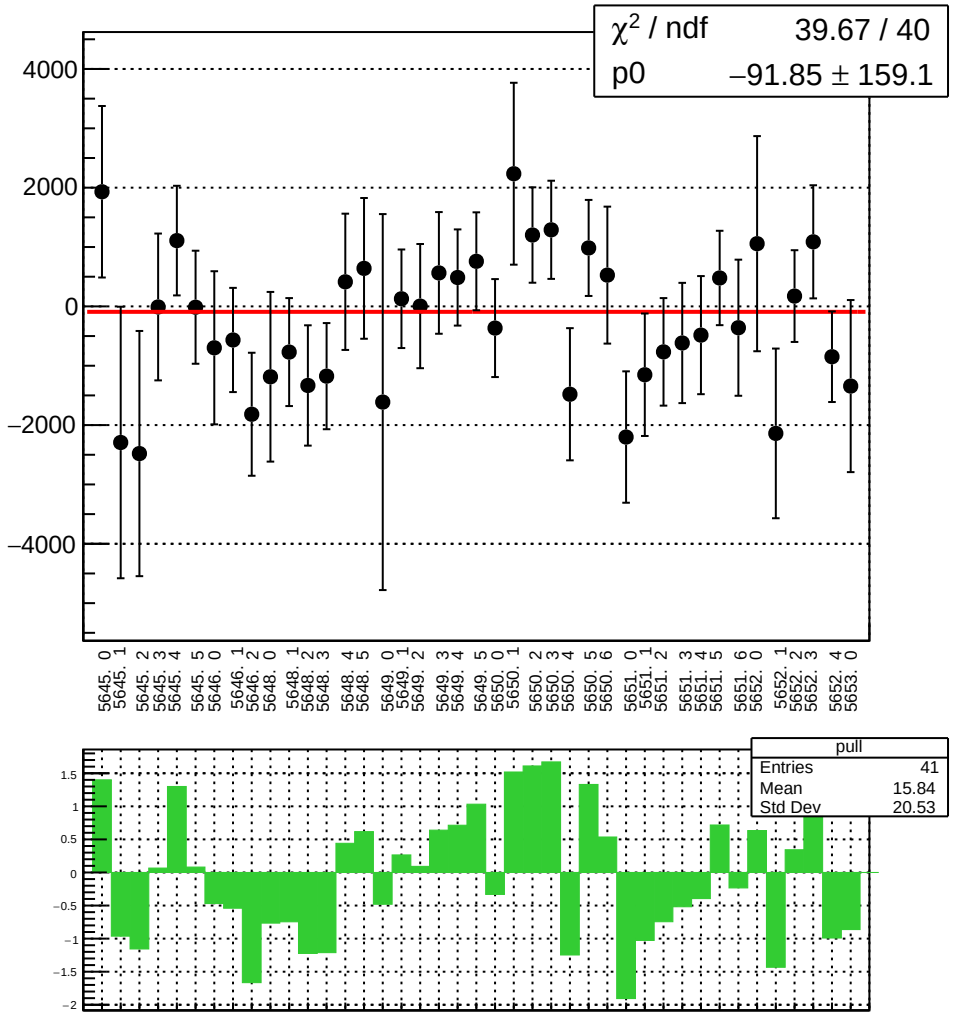

pull1D
Entries 41
Mean −0.02529
Std Dev 0.9796

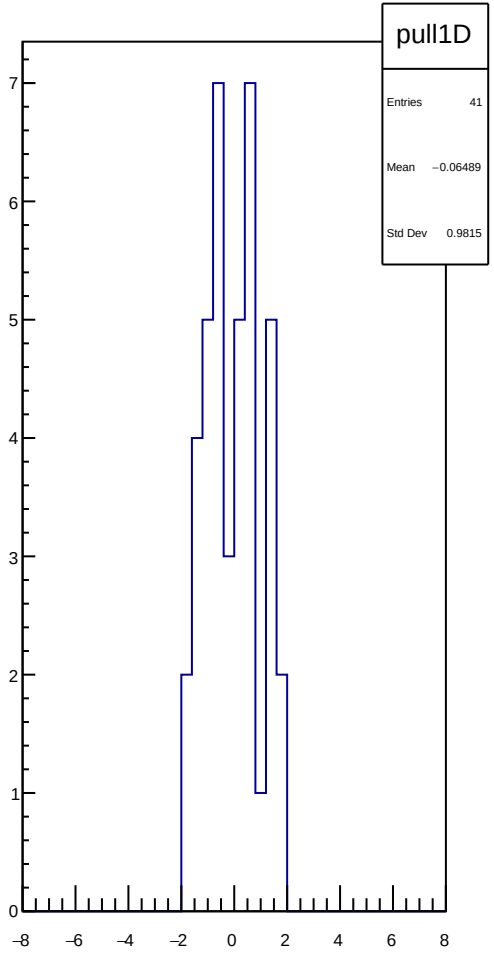

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.967e+04 / 40
p0 35.79 ± 0.04187
65
60
55
50
45
40
35
30
25
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

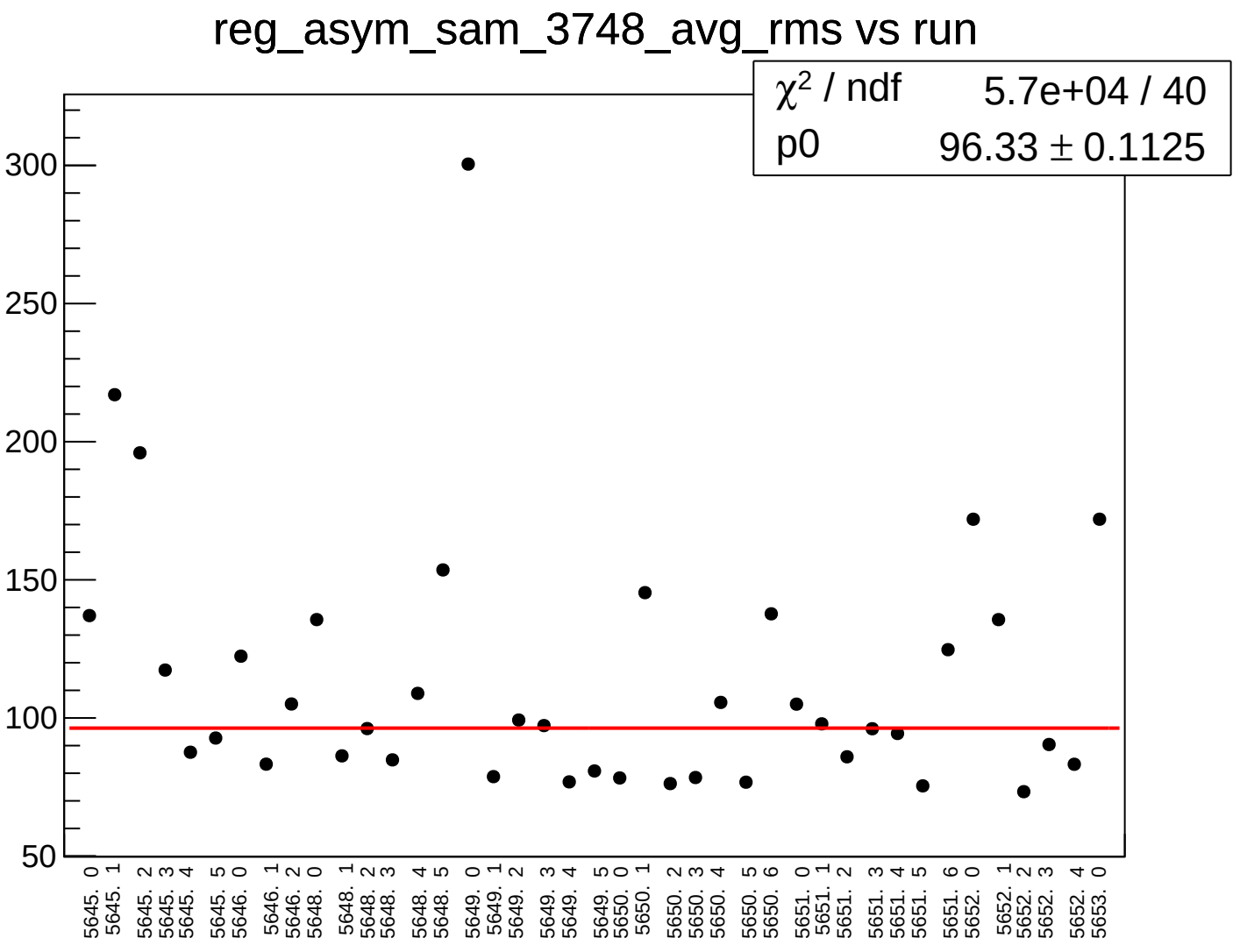

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 28.43 / 40
p0 5.026e−15 ± 6.567e−14
pull
Entries 41
Mean −47.89
Std Dev 0

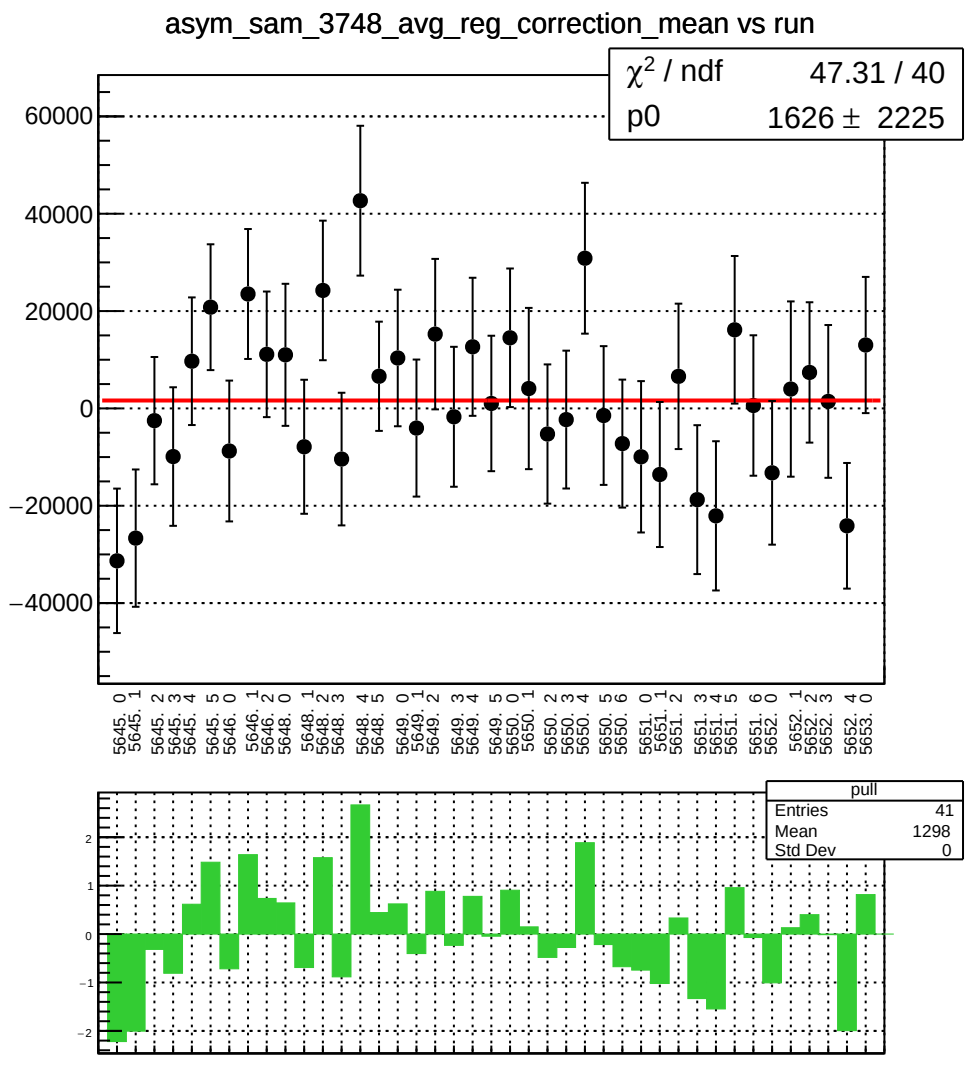

pull1D
Entries 41
Mean −0.04089
Std Dev 0.8317

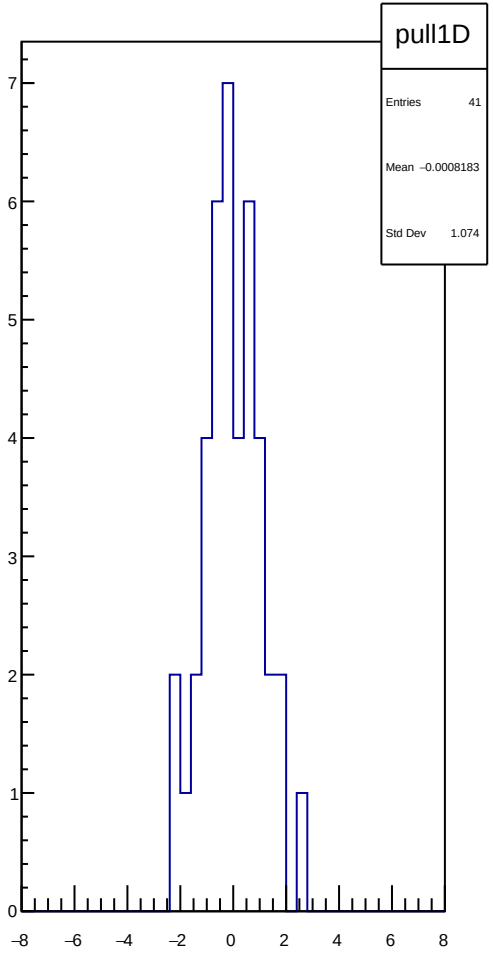

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.711e+05 / 40
p0 3.654e−11 ± 4.643e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

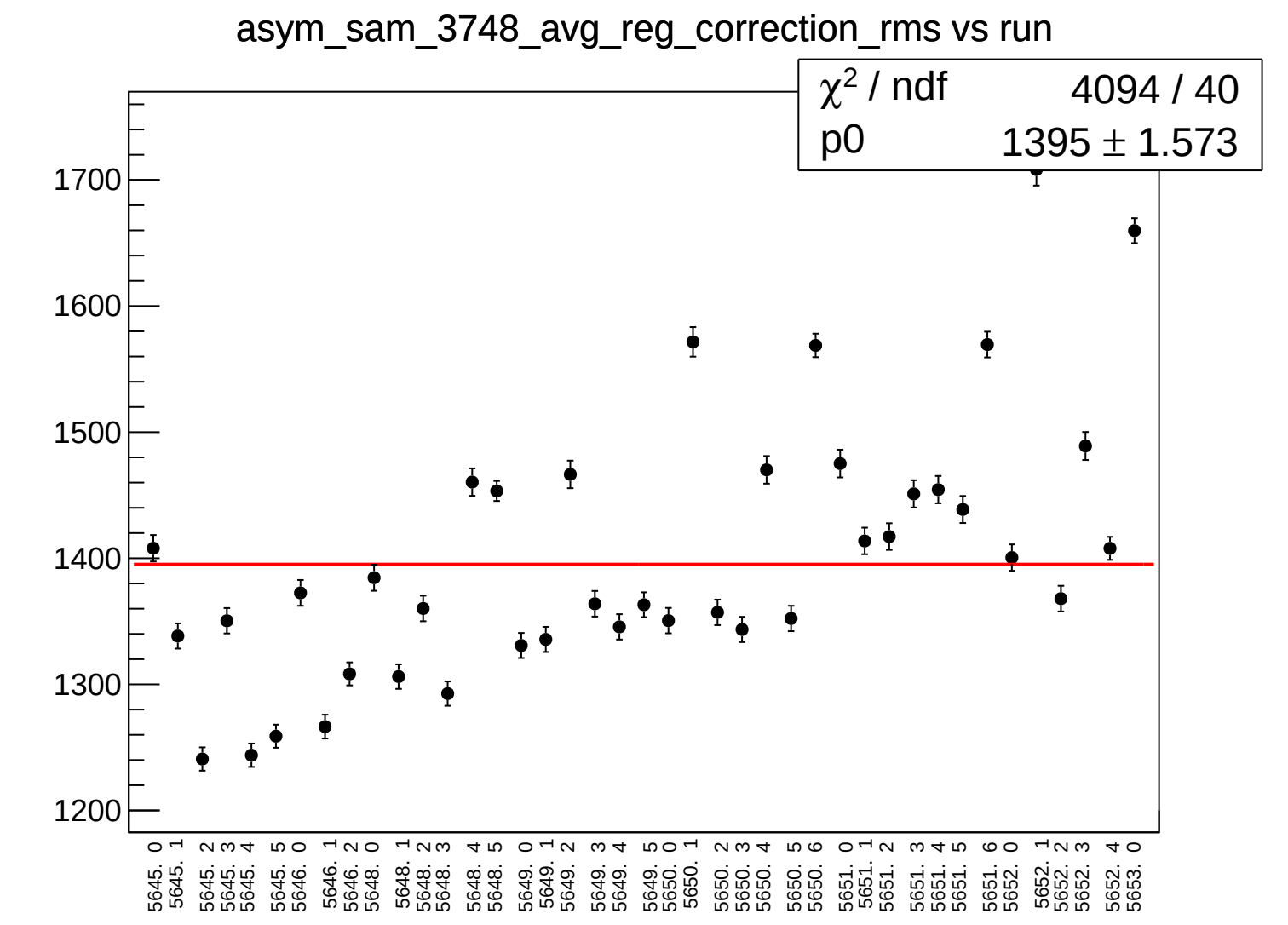

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 39.67 / 40
p0 −91.85 ± 159.1
pull
Entries 41
Mean 15.84
Std Dev 20.53

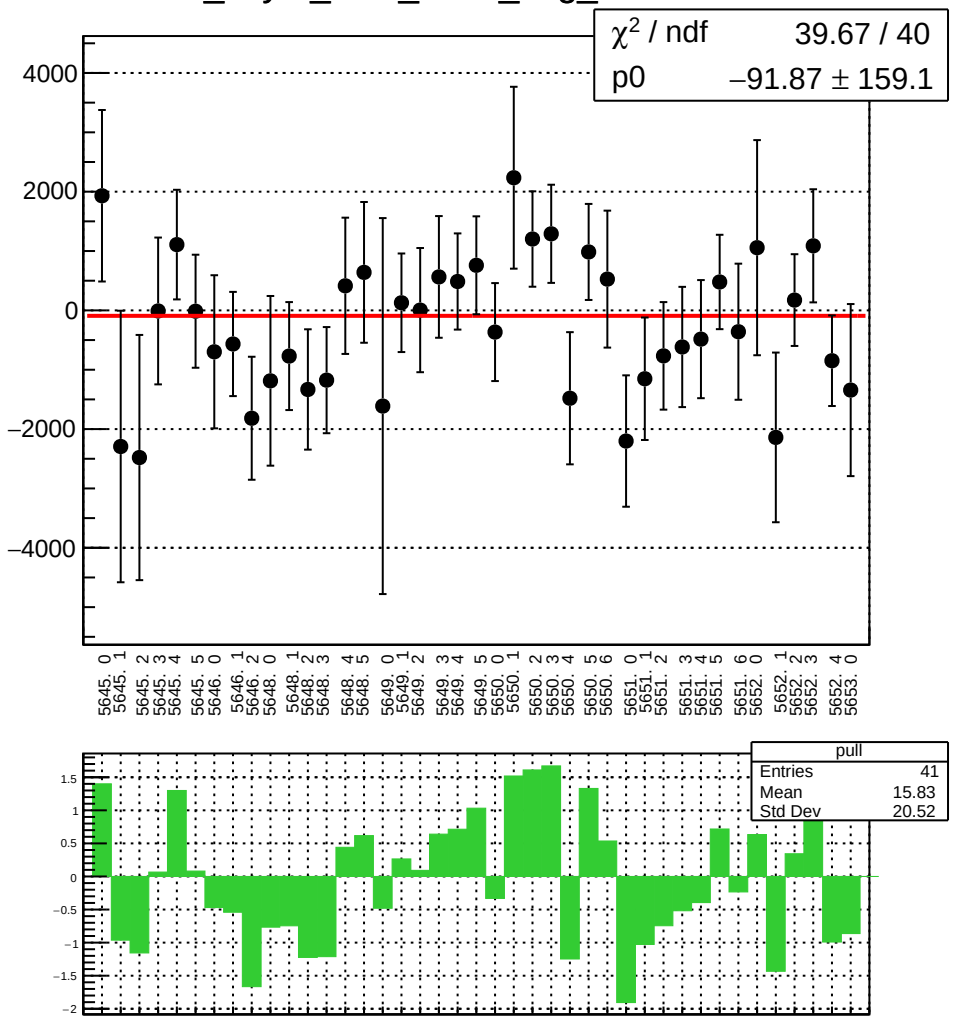

pull1D
Entries 41
Mean −0.06489
Std Dev 0.9815

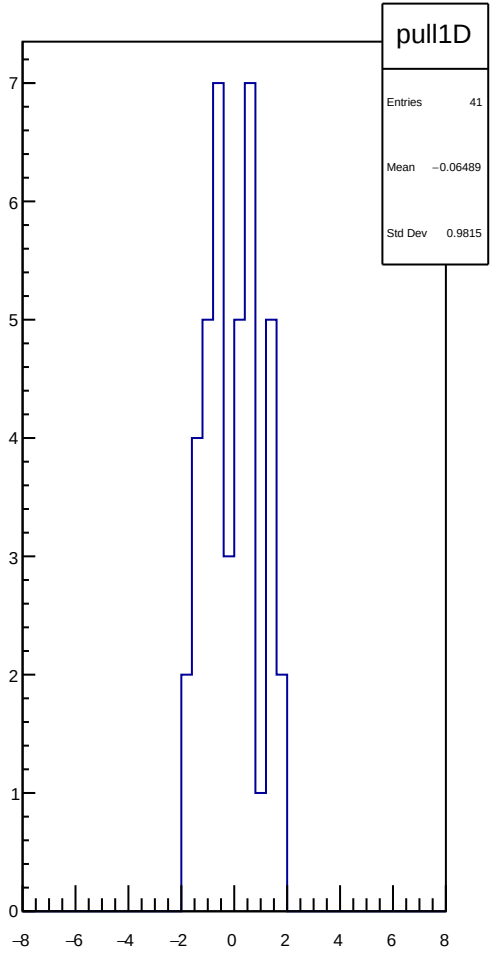

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 5.7e+04 / 40
p0 96.33 ± 0.1125
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

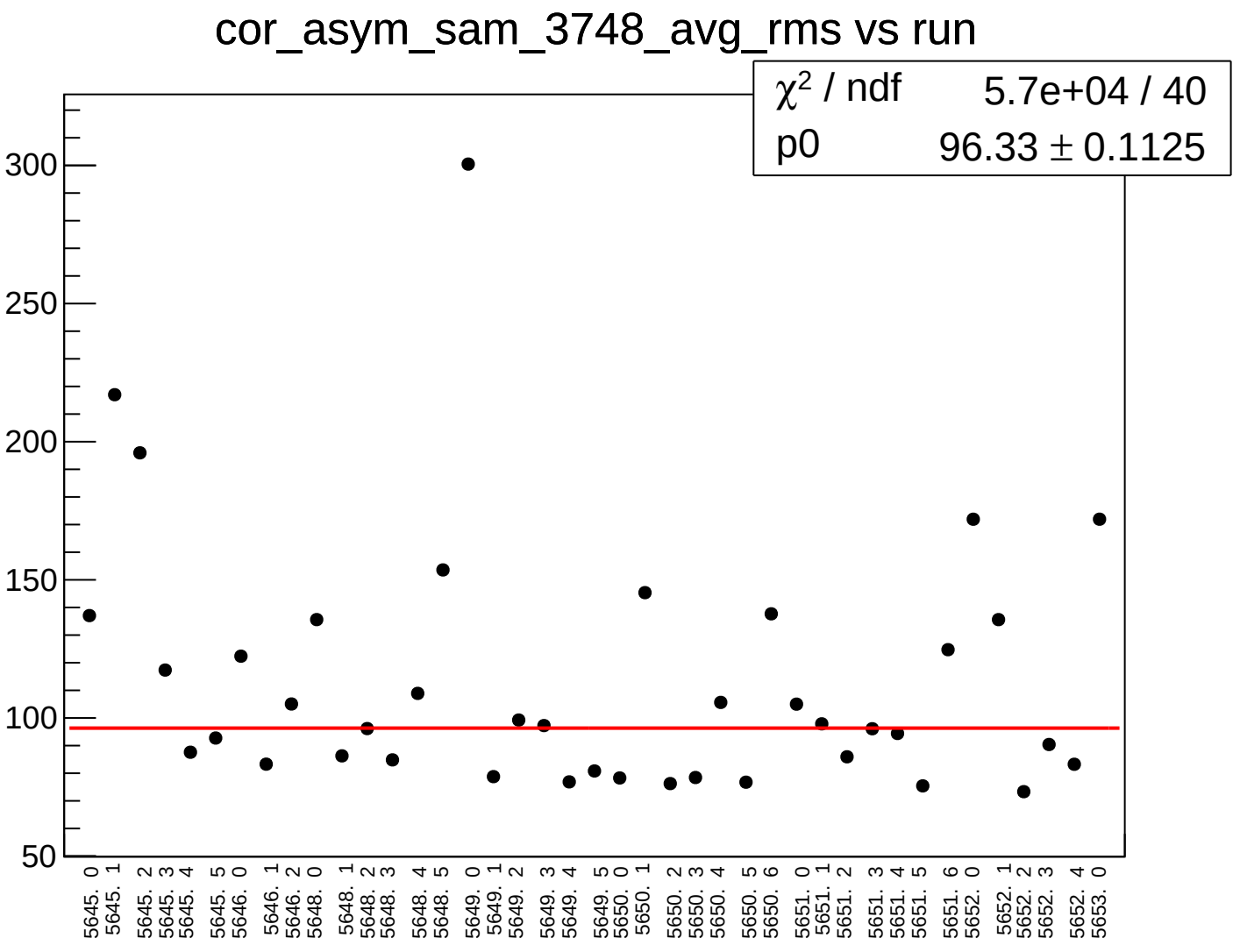

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 47.31 / 40
p0 1626 ± 2225
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1298
Std Dev 0
2
1
0
−1
−2

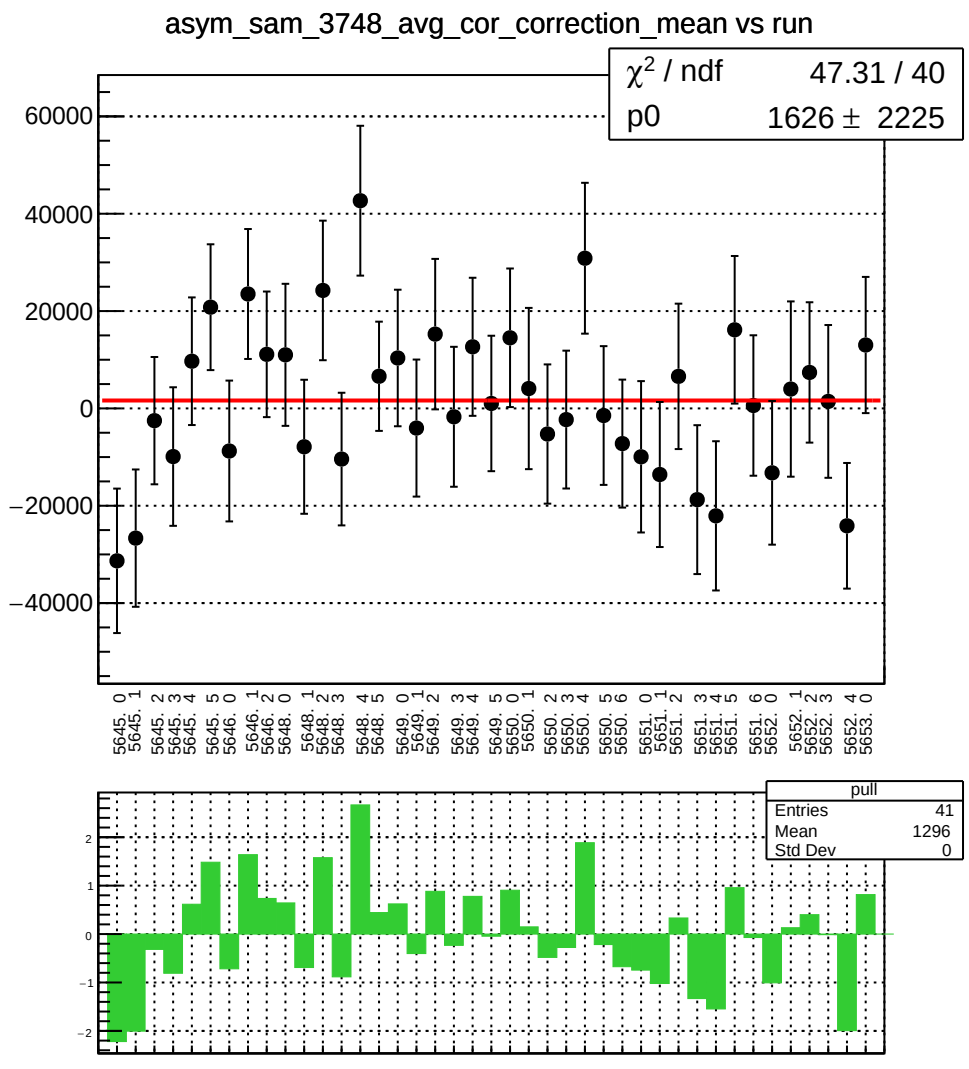

pull1D
Entries 41
Mean −0.0008183
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

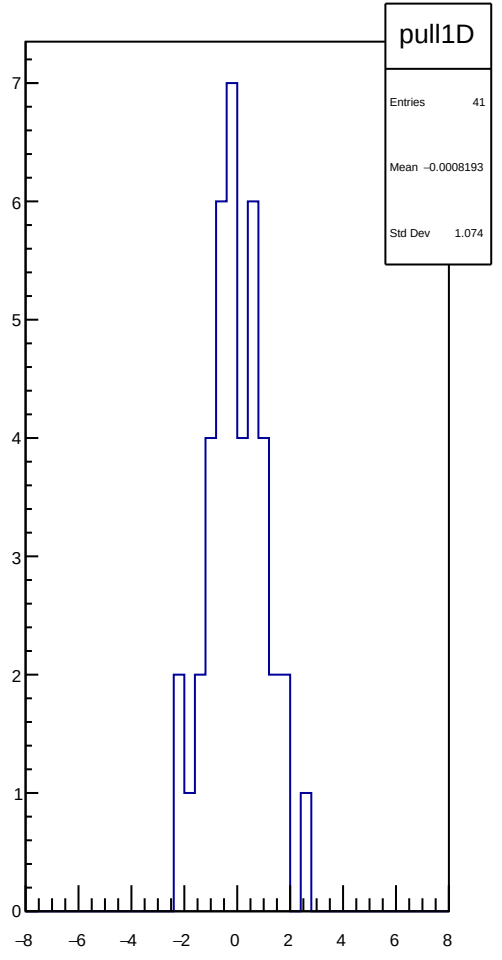

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 4094 / 40
p0 1395 ± 1.573
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

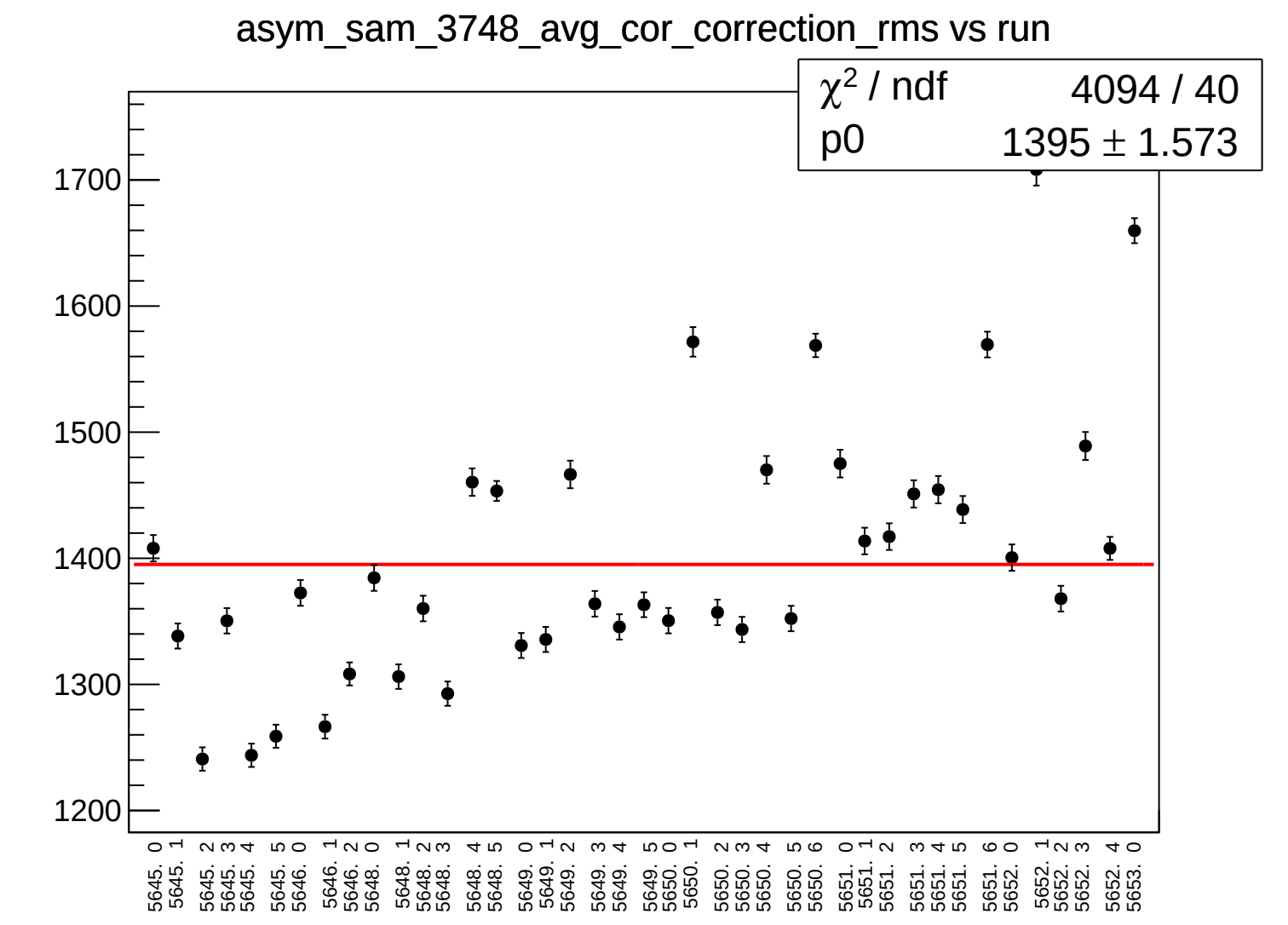

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 39.67 / 40
p0 −91.87 ± 159.1
pull
Entries 41
Mean 15.83
Std Dev 20.52

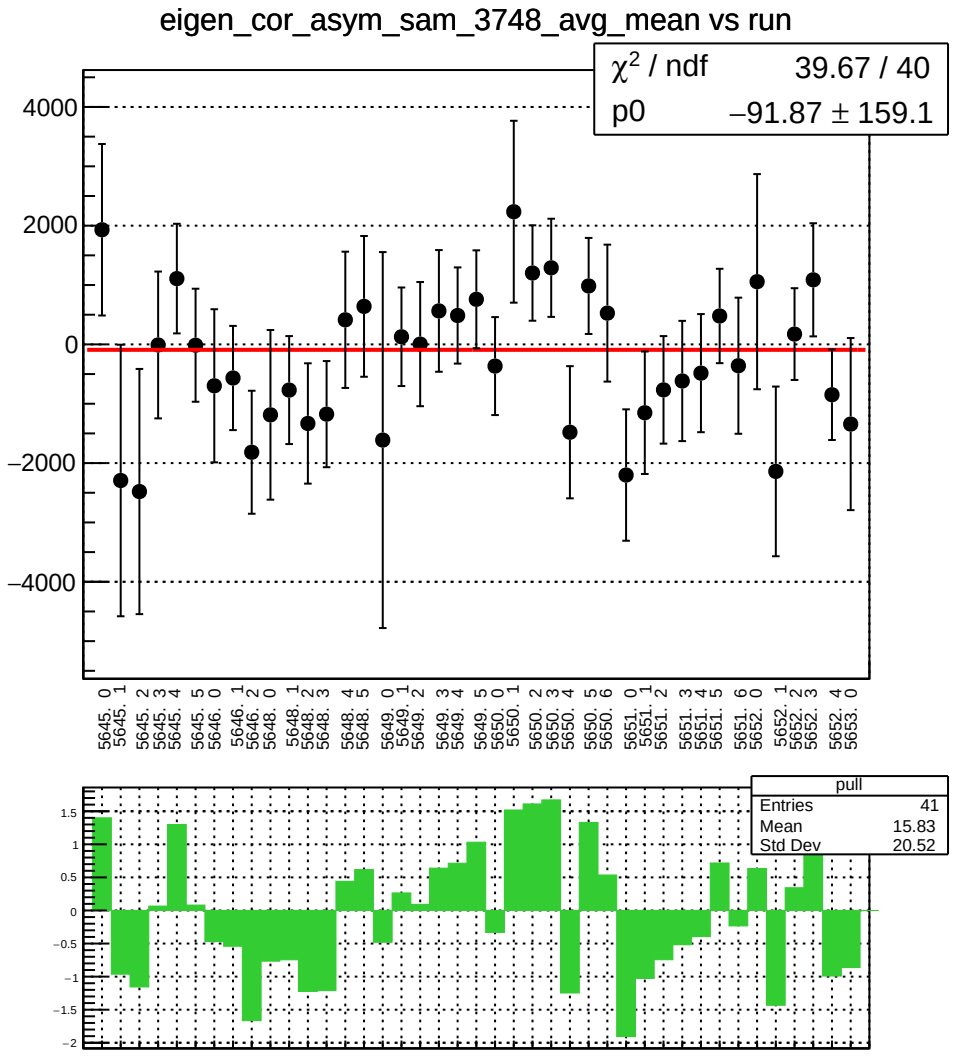

pull1D
Entries 41
Mean −0.06489
Std Dev 0.9815

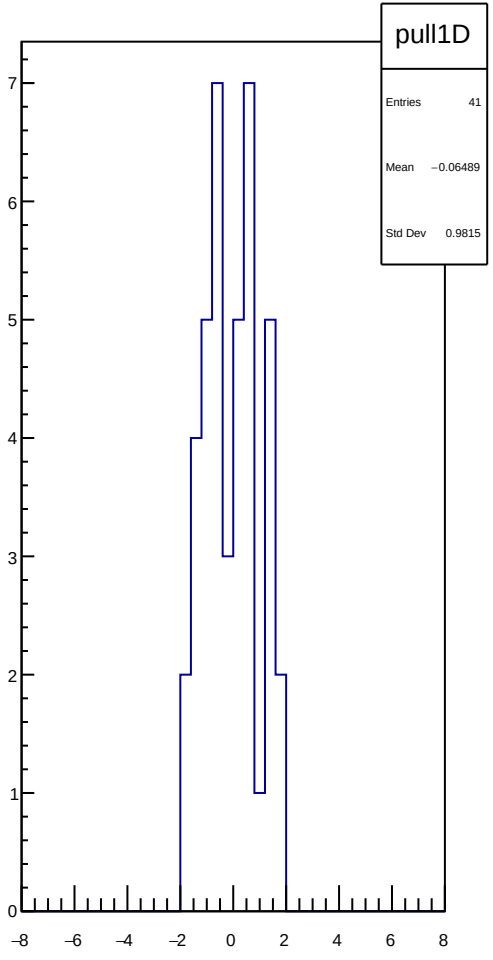

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.7e+04 / 40
p0 96.33 ± 0.1125
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

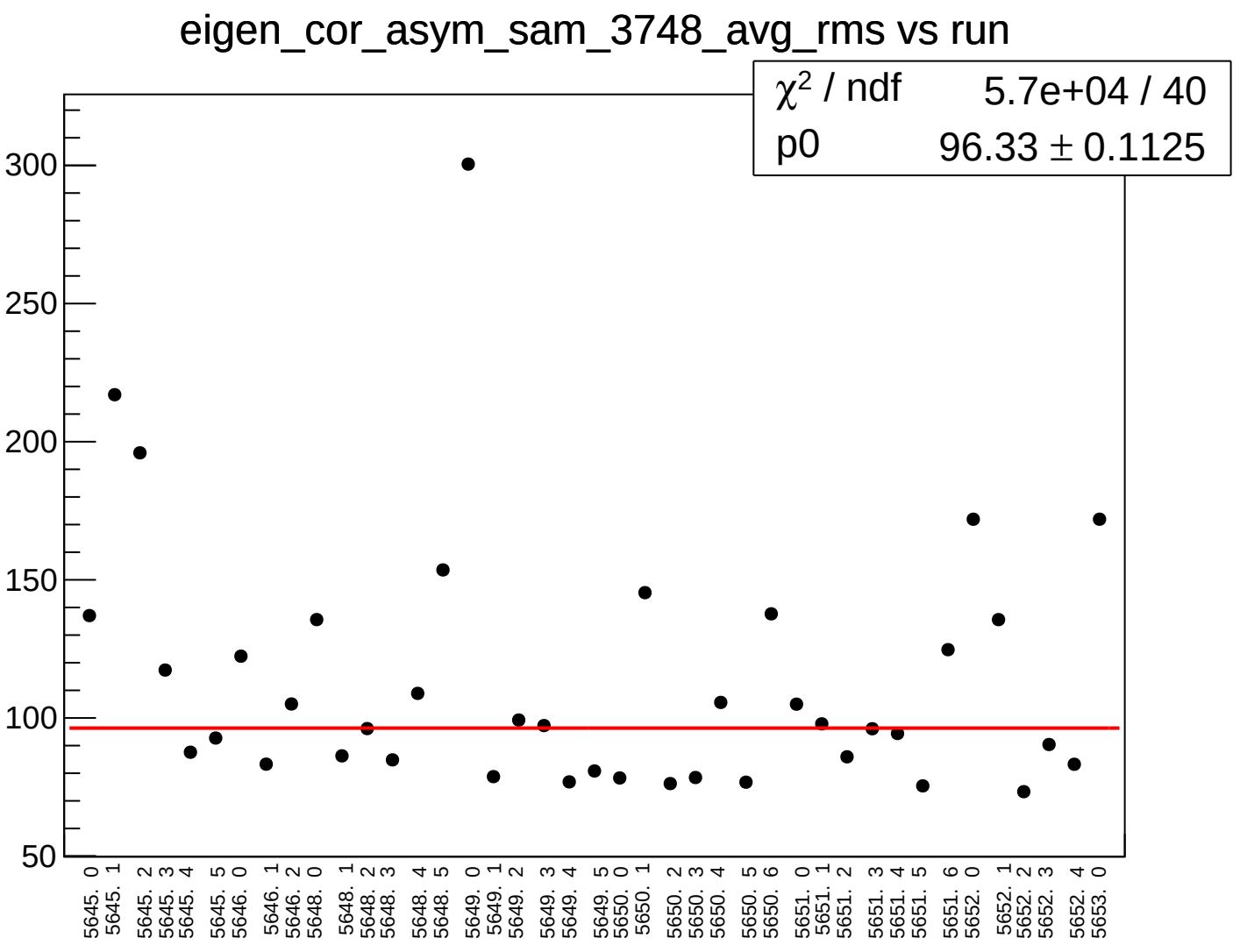

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 47.31 / 40
p0 1626 ± 2225
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1296
Std Dev 0
2
1
0
−1
−2

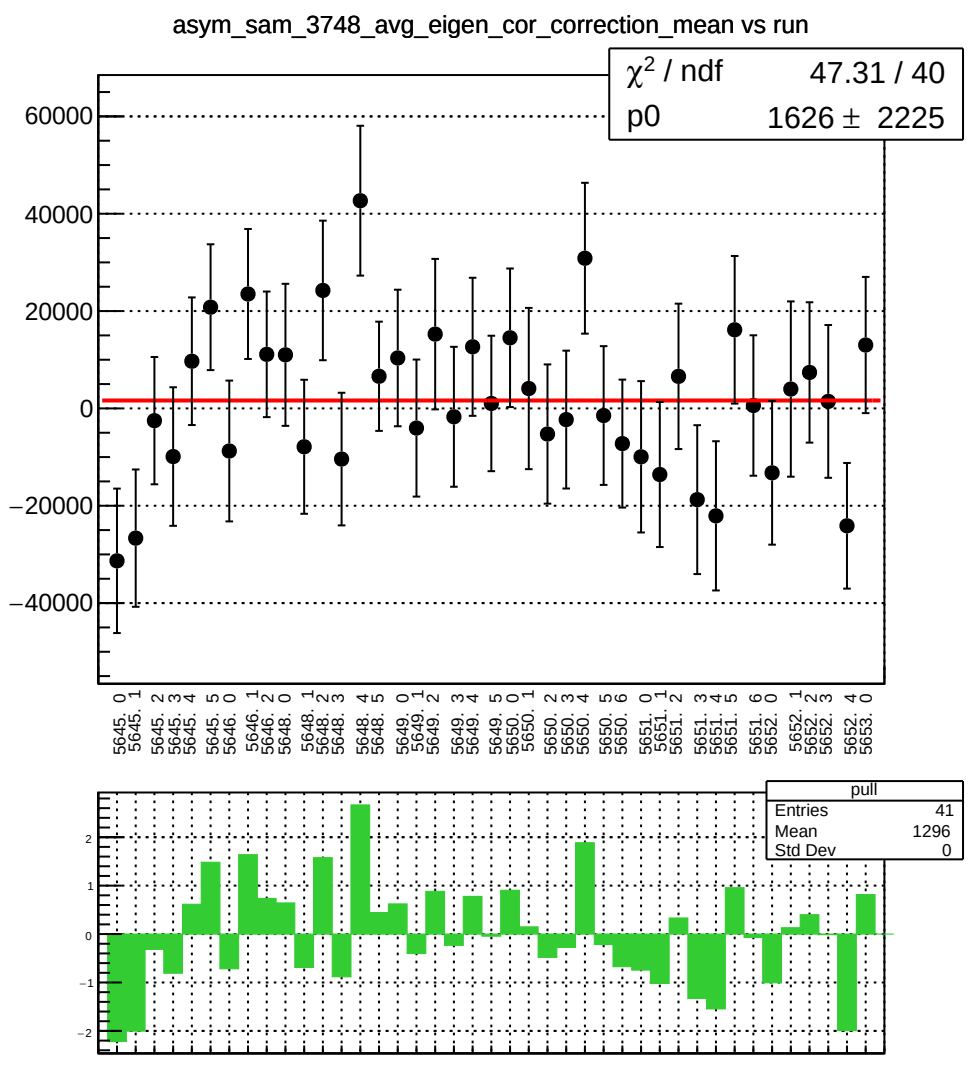

pull1D
Entries 41
Mean −0.0008193
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

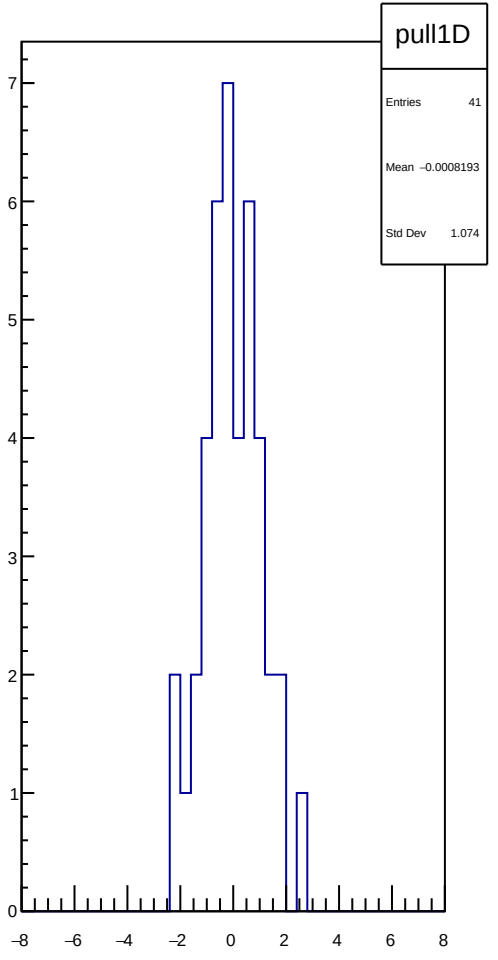

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 4094 / 40
p0 1395 ± 1.573
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

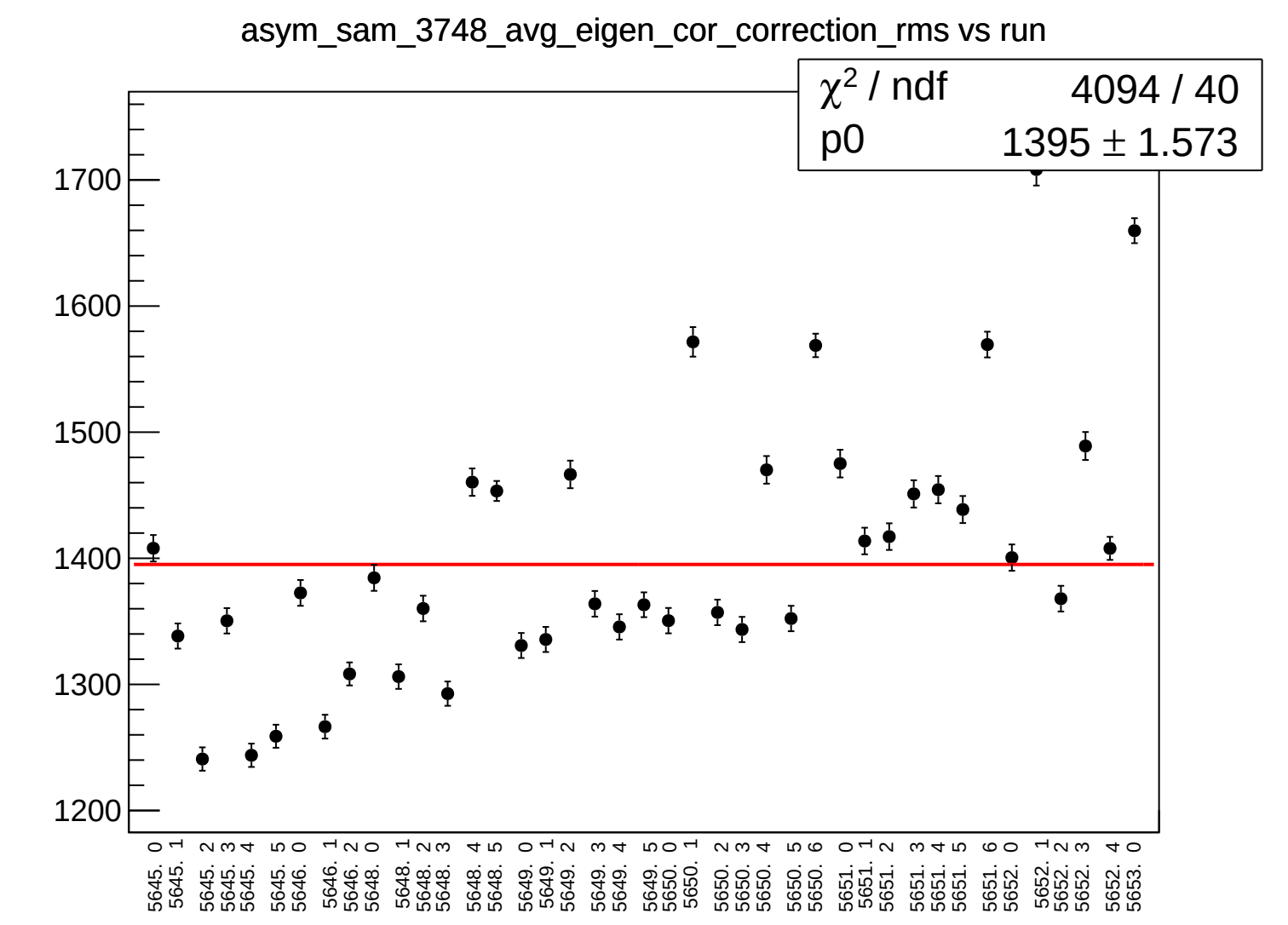

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 39.67 / 40
p0 −91.87 ± 159.1
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 15.83
Std Dev 20.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2

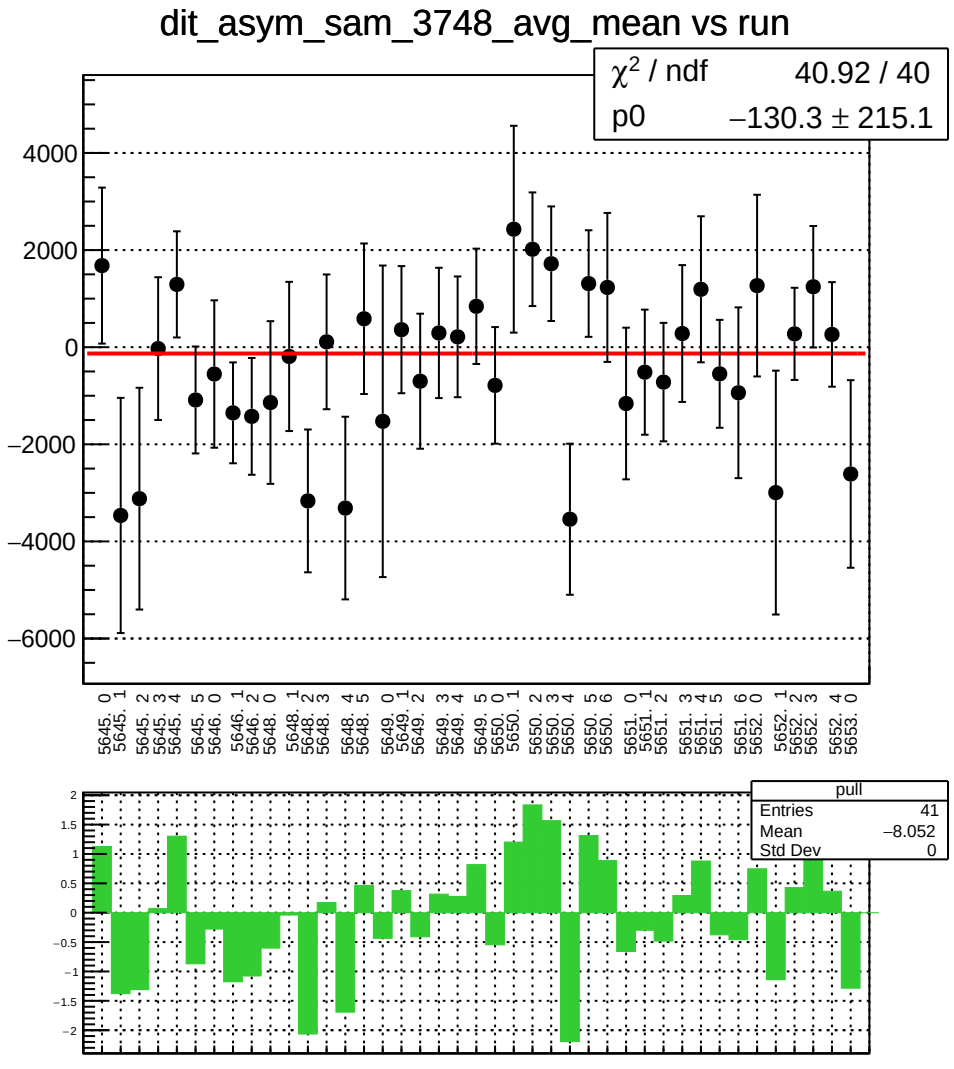

pull1D
Entries 41
Mean −0.06489
Std Dev 0.9815
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

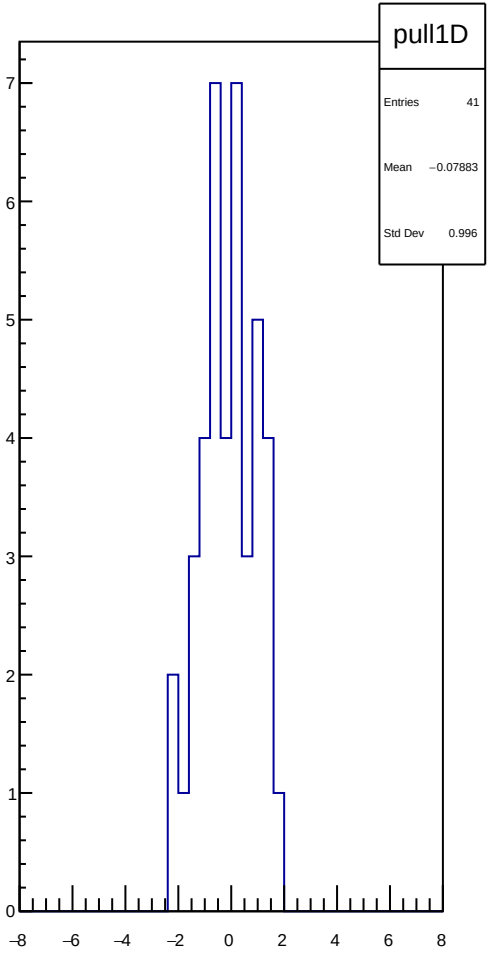

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 5.7e+04 / 40
p0 96.33 ± 0.1125
300
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

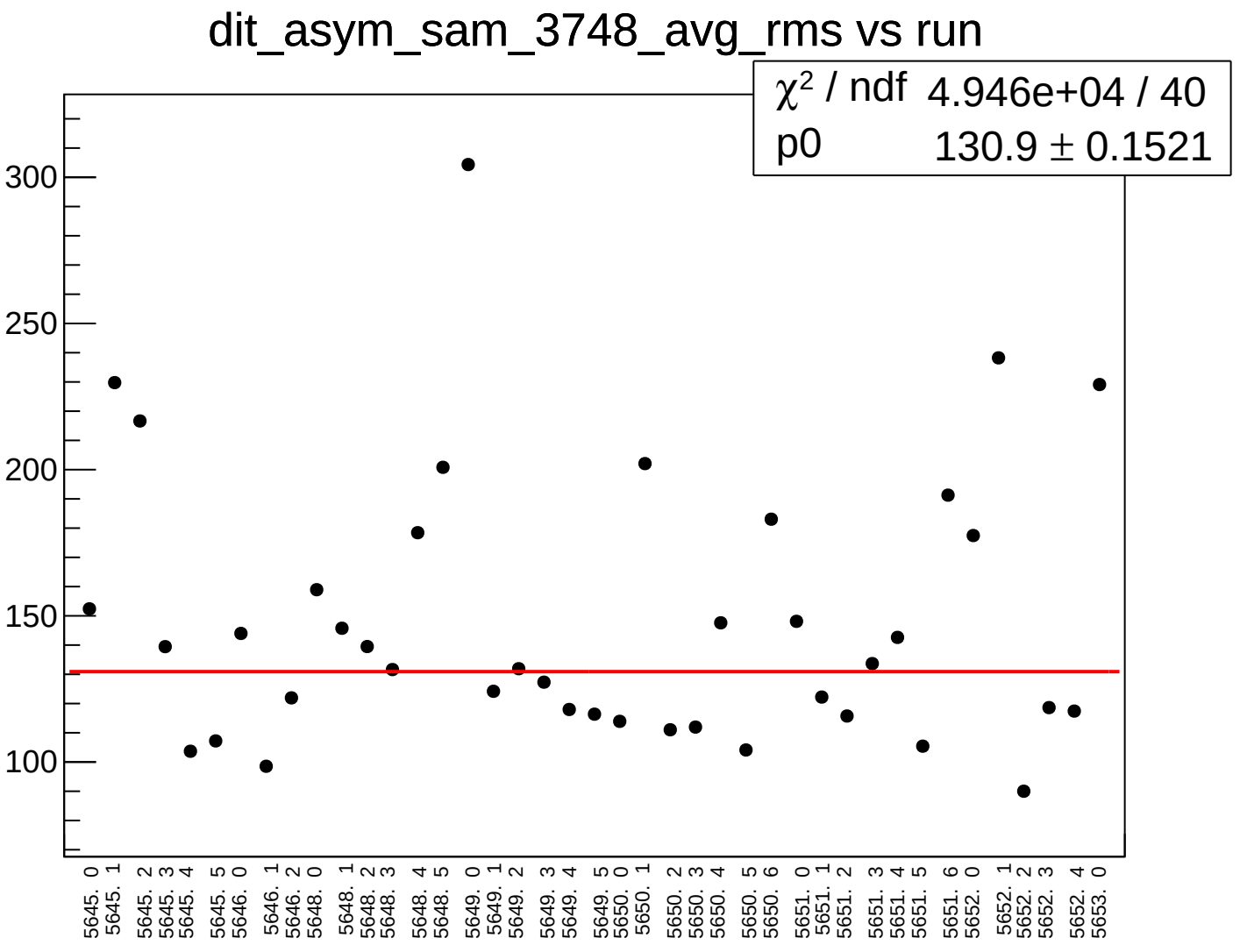

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 47.31 / 40
p0 1626 ± 2225
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1296
Std Dev 0
2
1
0
−1
−2

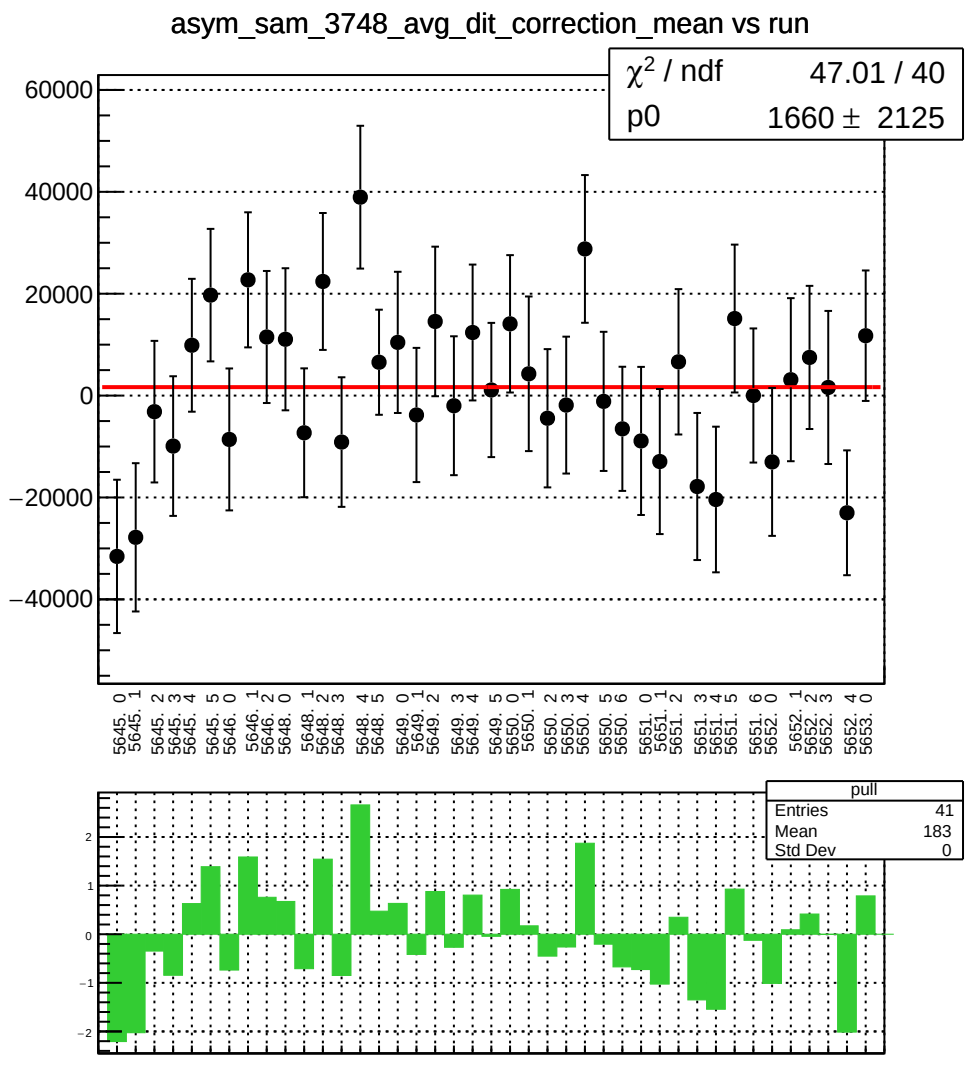

pull1D
Entries 41
Mean −0.0008193
Std Dev 1.074
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

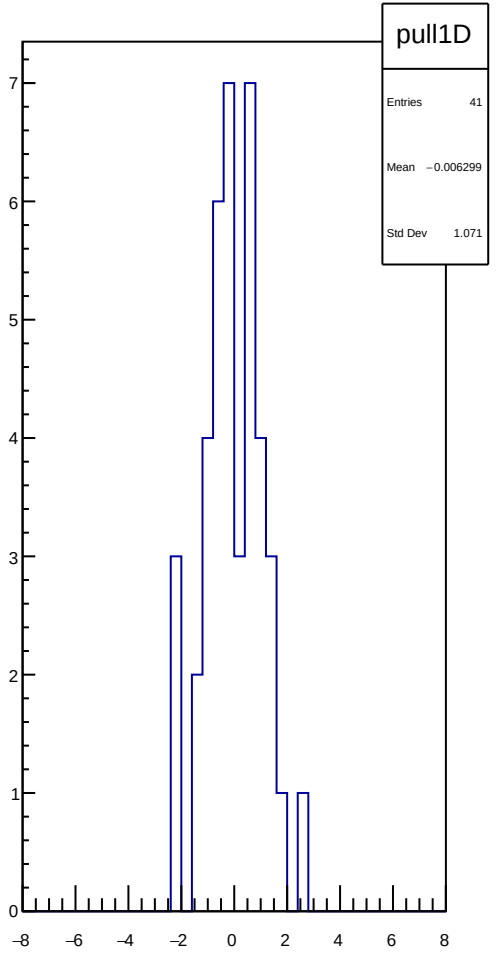

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 4094 / 40
p0 1395 ± 1.573
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

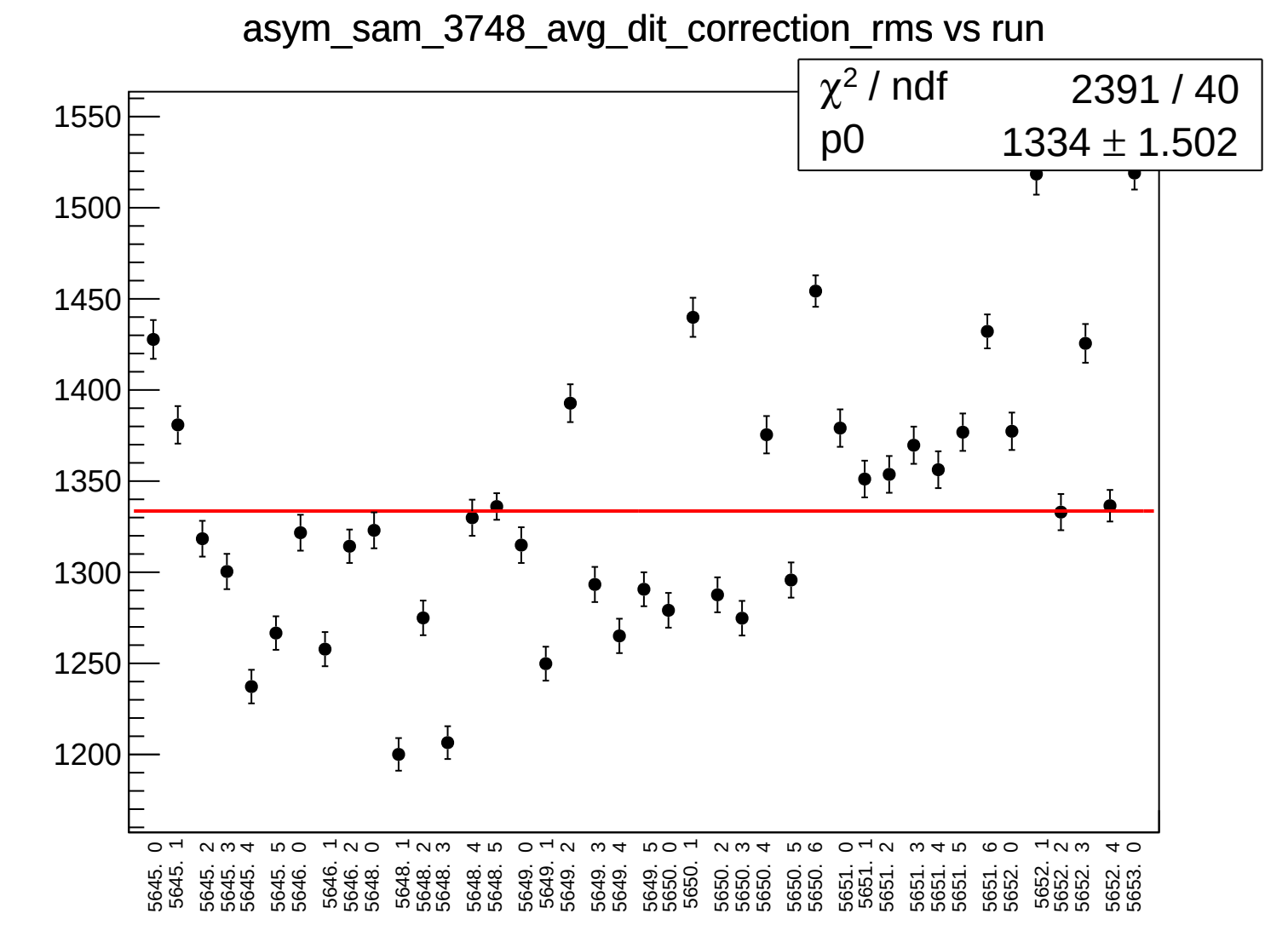

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 40.92 / 40
p0 −130.3 ± 215.1
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −8.052
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

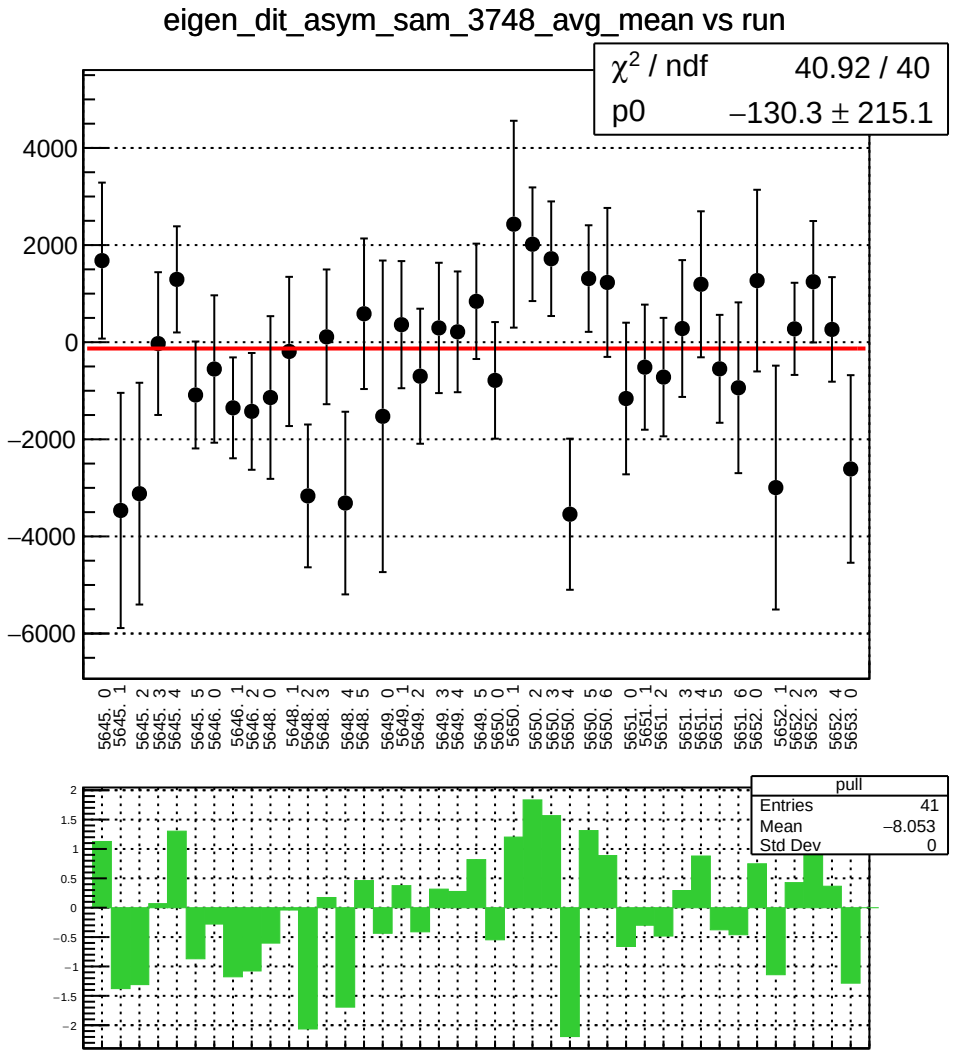

pull1D
Entries 41
Mean −0.07883
Std Dev 0.996
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

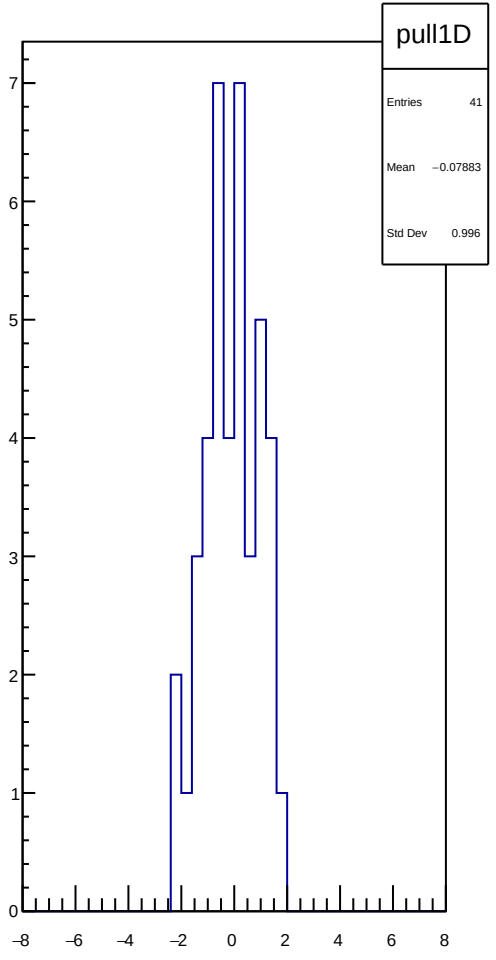

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4.946e+04 / 40
p0 130.9 ± 0.1521
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

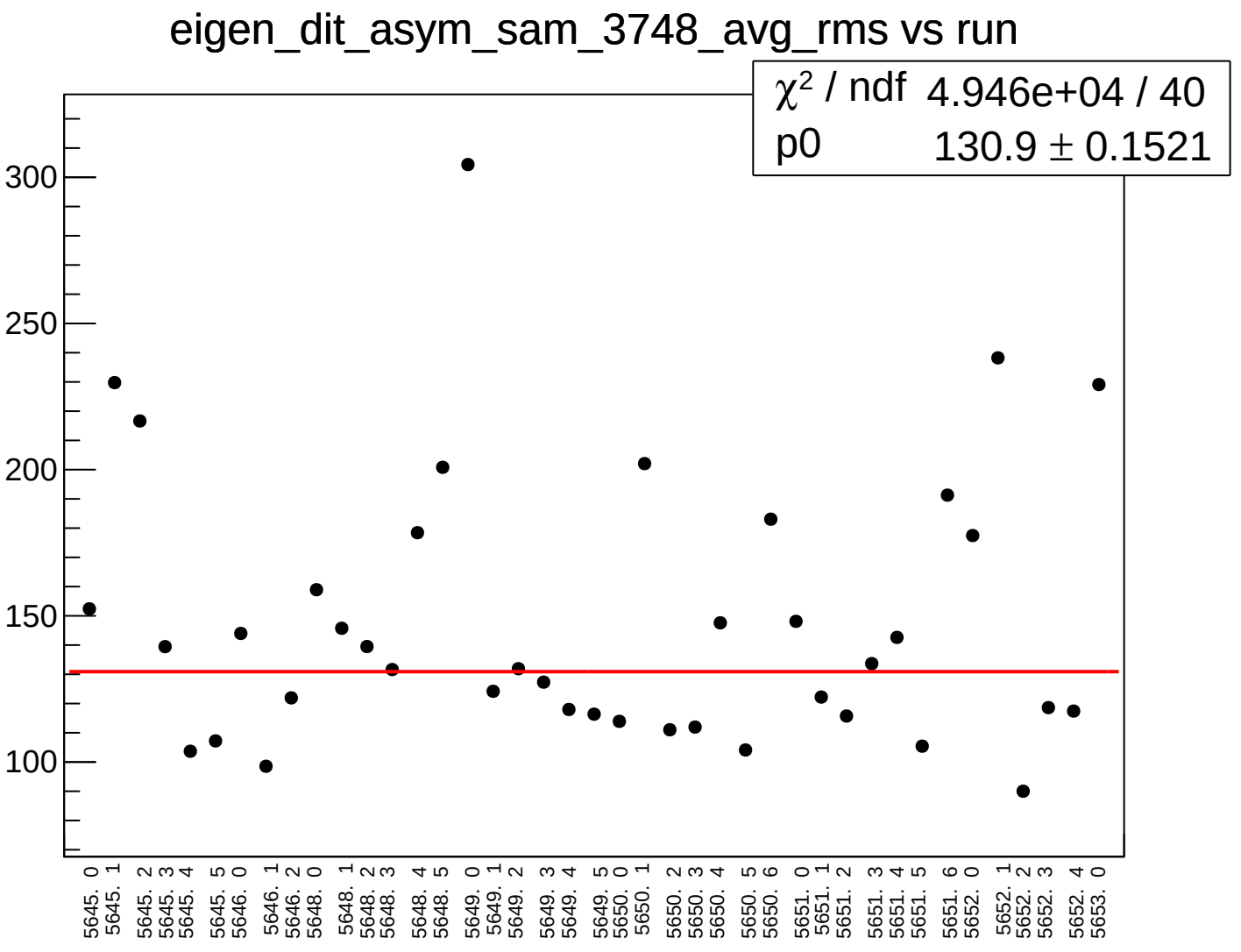

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 47.01 / 40
p0 1660 ± 2125
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 183
Std Dev 0
2
1
0
−1
−2

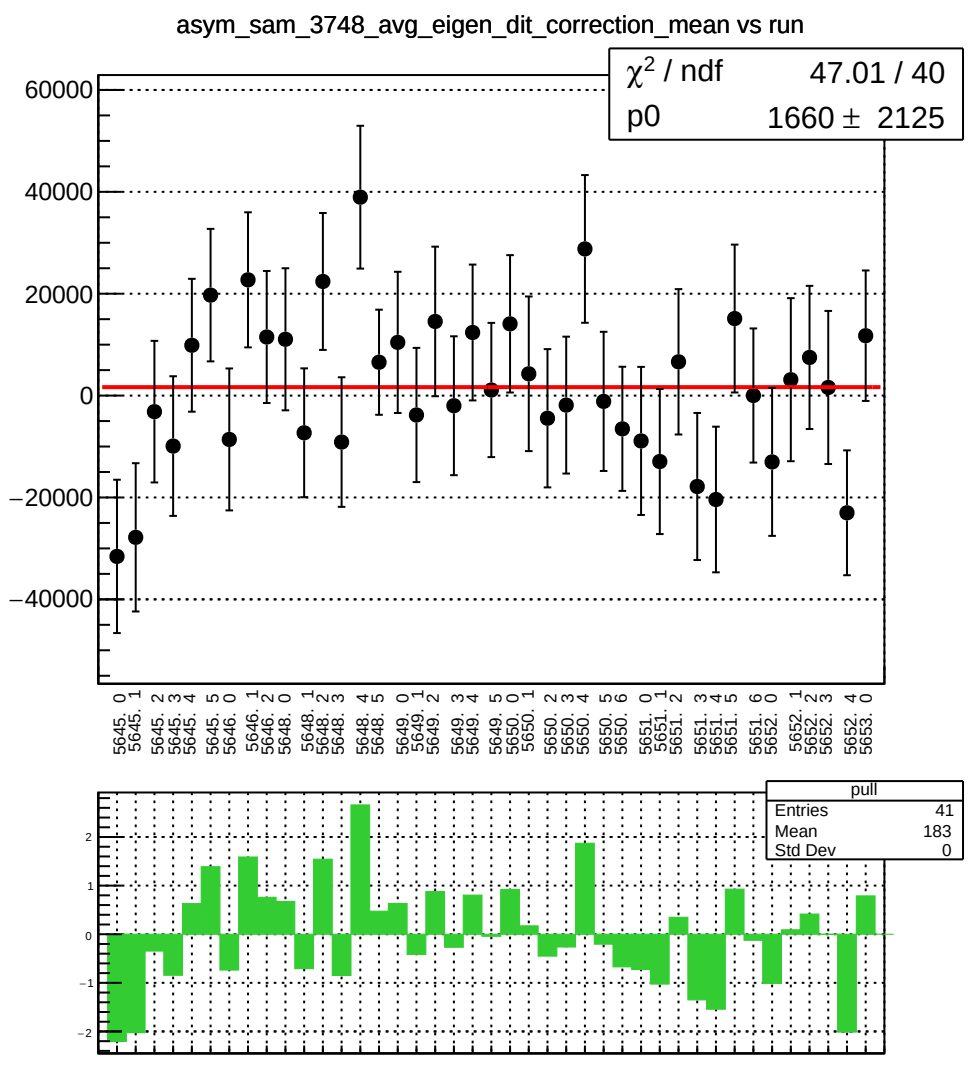

pull1D
Entries 41
Mean −0.006299
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

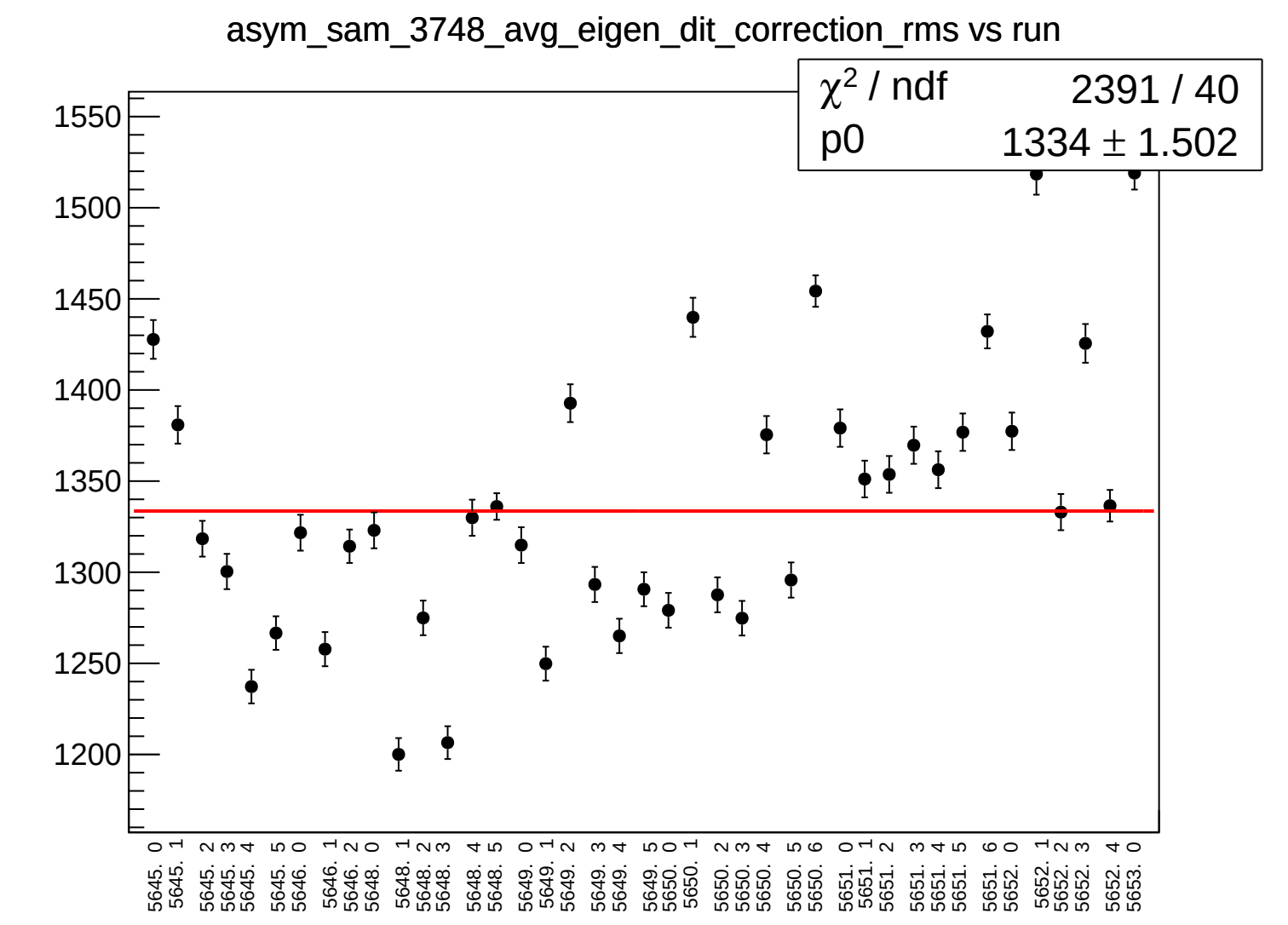

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2391 / 40
p0 1334 ± 1.502
1550
1500
1450
1400
1350
1300
1250
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

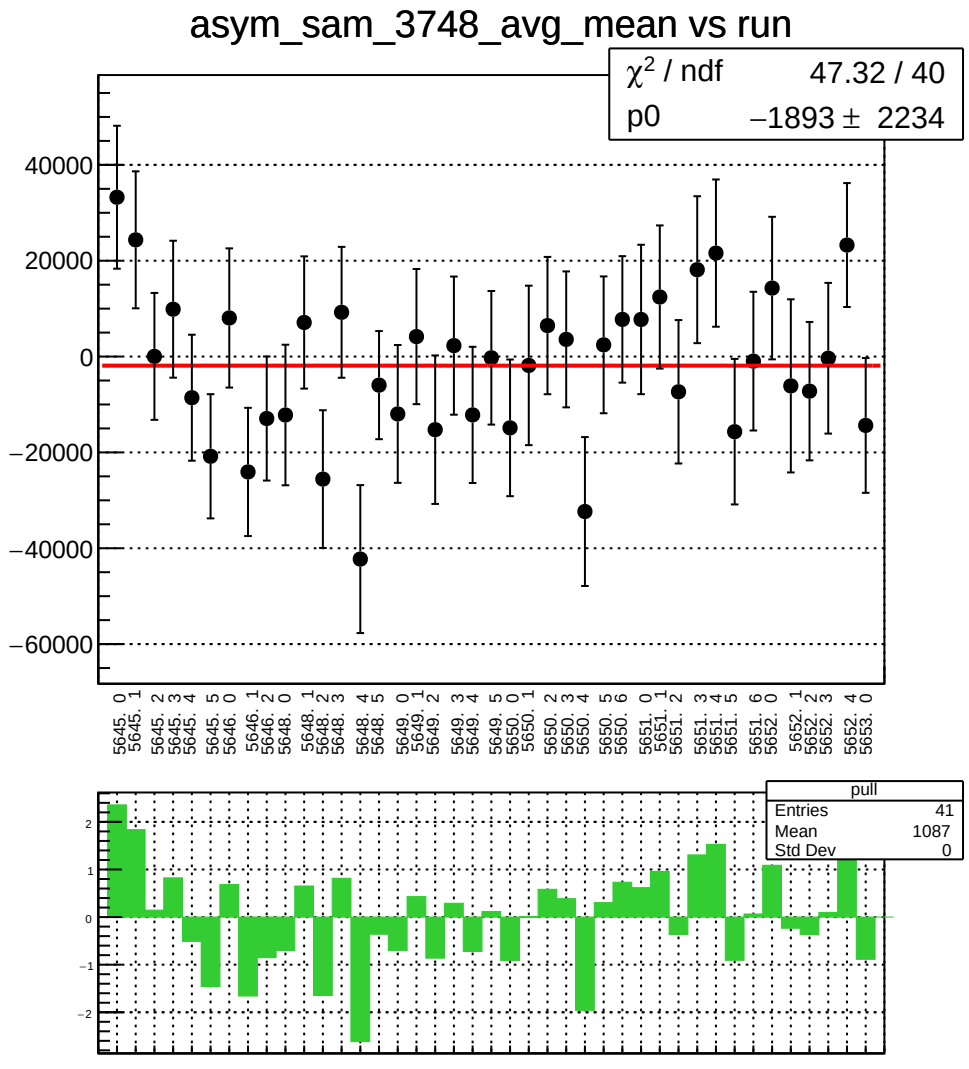

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 40.92 / 40
p0 −130.3 ± 215.1
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −8.053
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

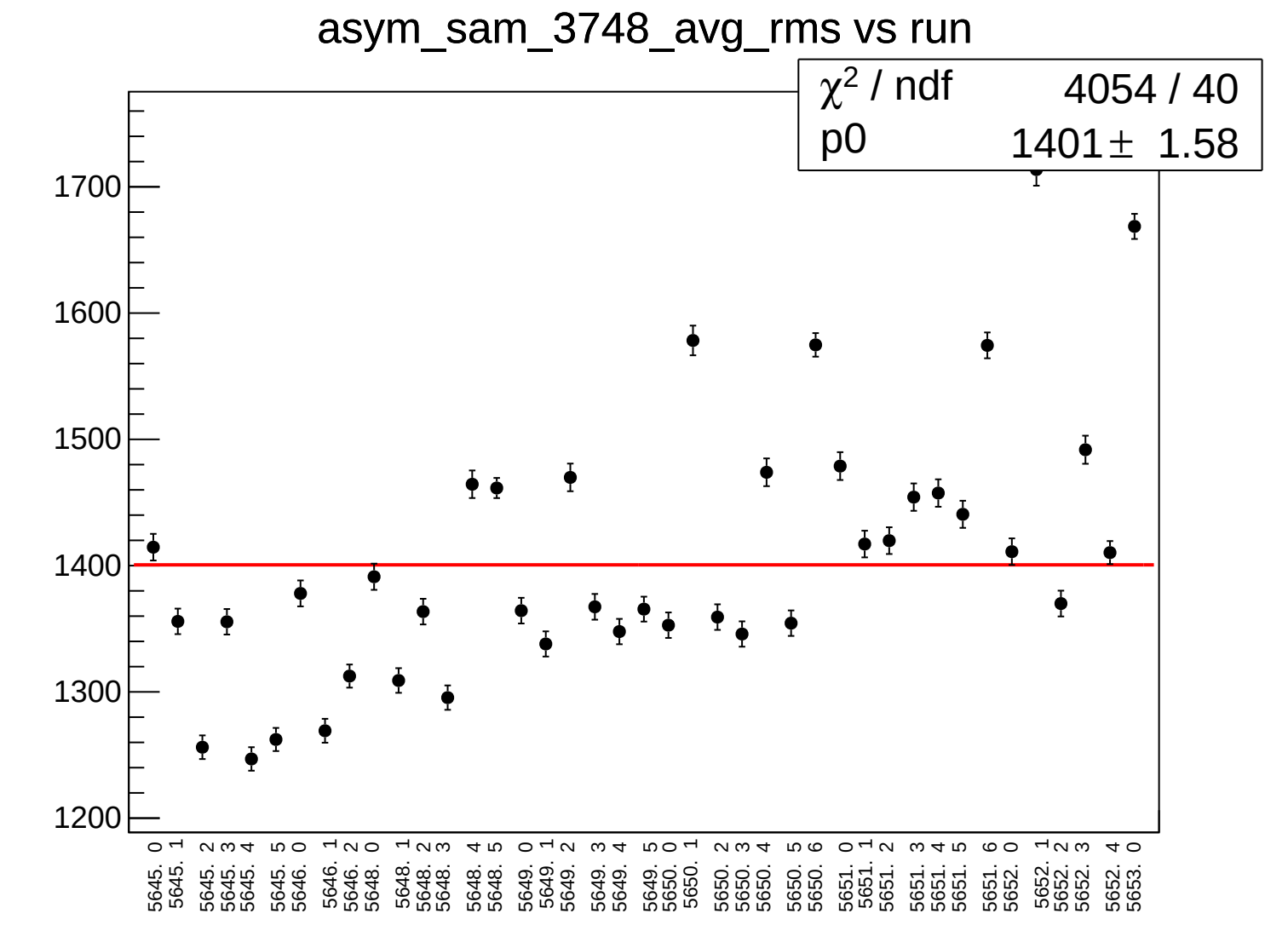

pull1D
Entries 41
Mean −0.07883
Std Dev 0.996
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

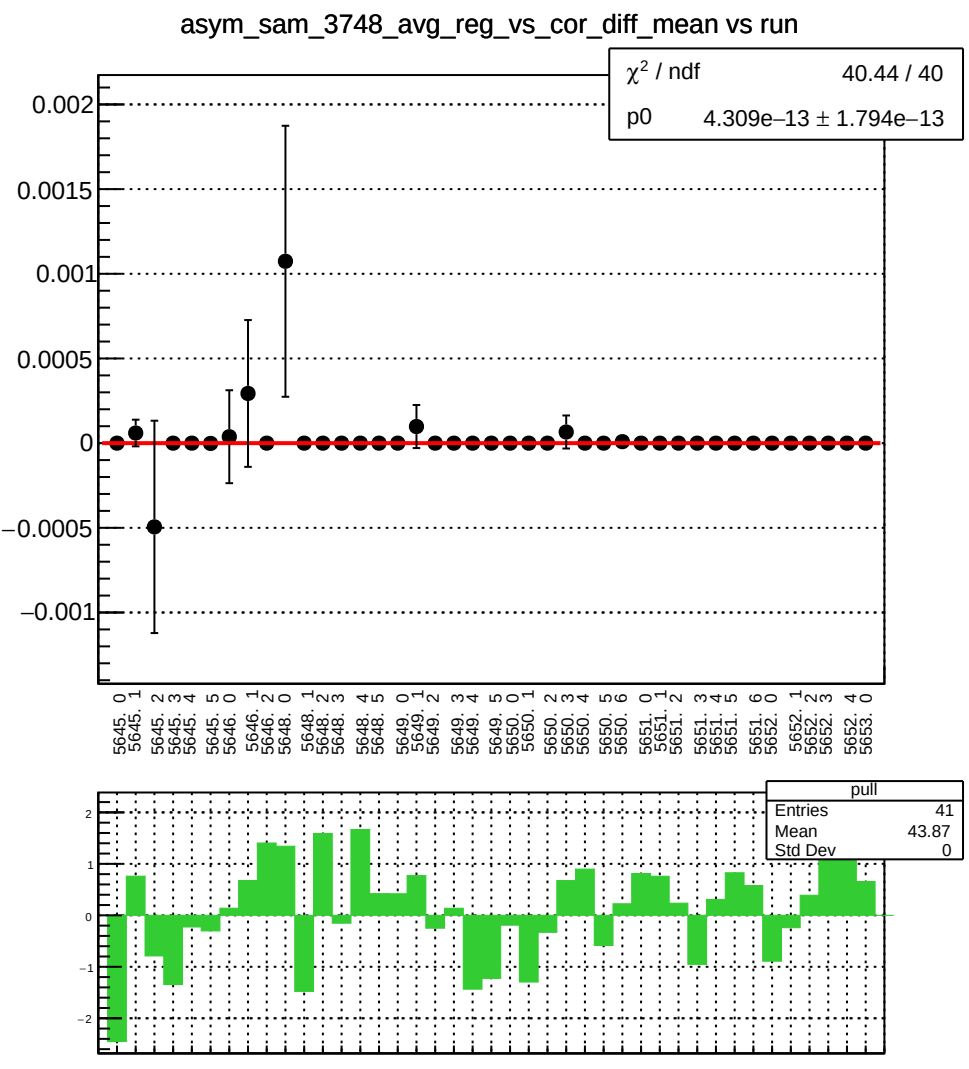

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4.946e+04 / 40
p0 130.9 ± 0.1521
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

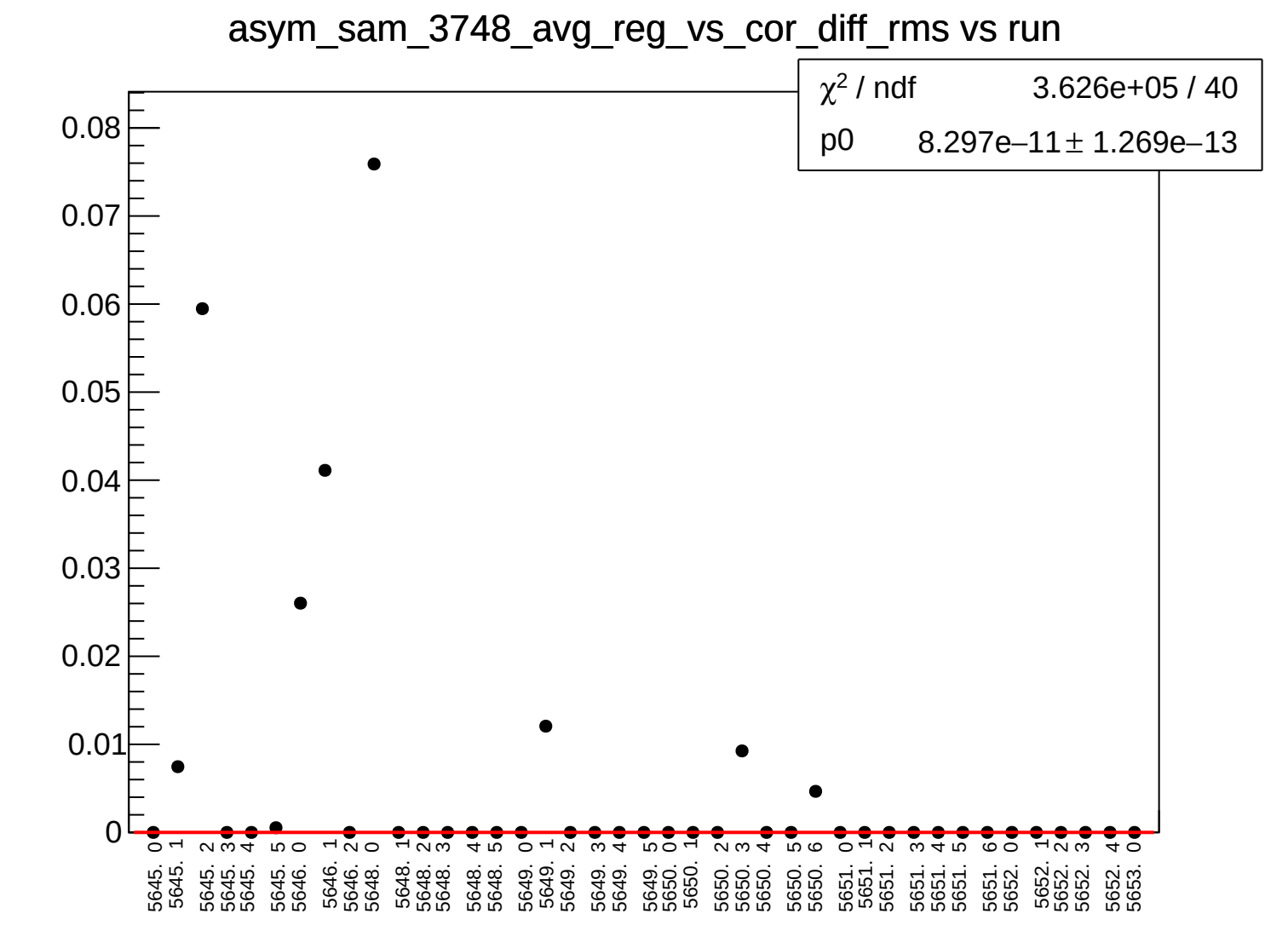

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 47.01 / 40
p0 1660 ± 2125
60000
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 183
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.006299
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

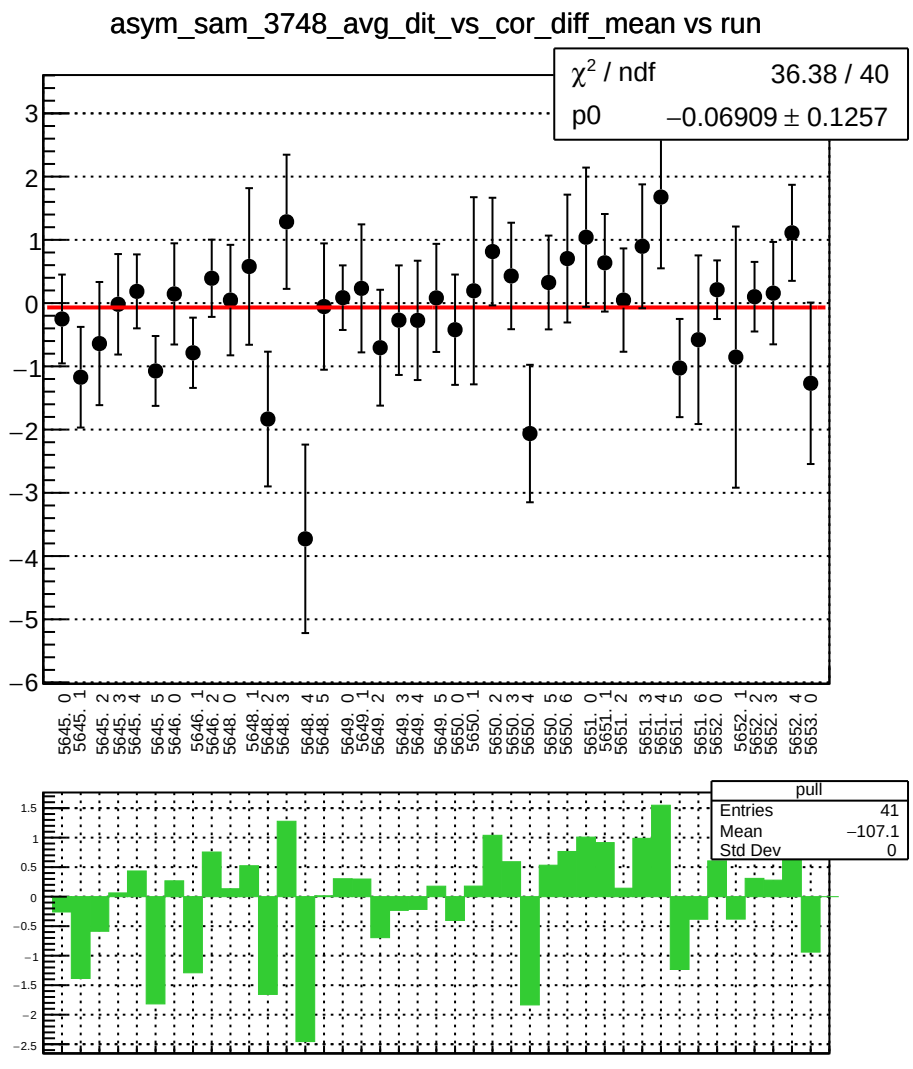

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2391 / 40
p0 1334 ± 1.502
1550
1500
1450
1400
1350
1300
1250
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

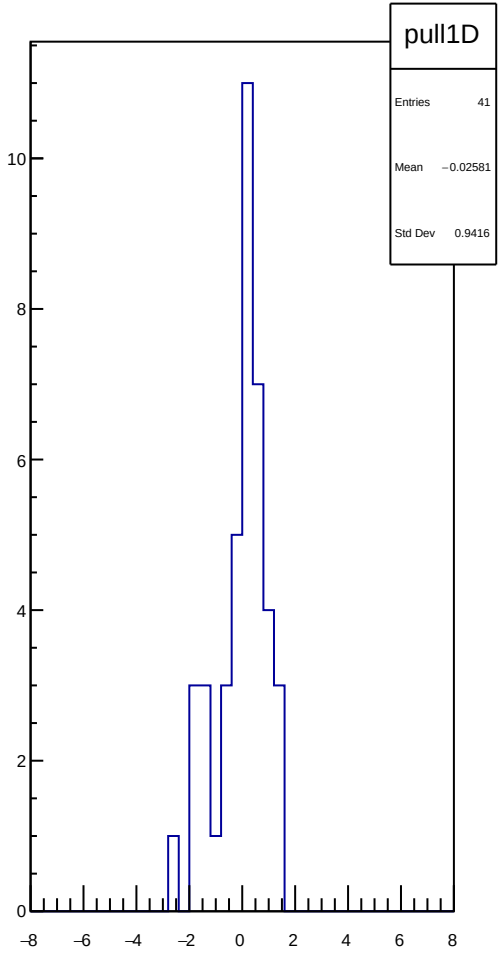

asym_sam_3748_avg_mean vs run
χ² / ndf 47.32 / 40
p0 −1893 ± 2234
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1087
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.001068
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

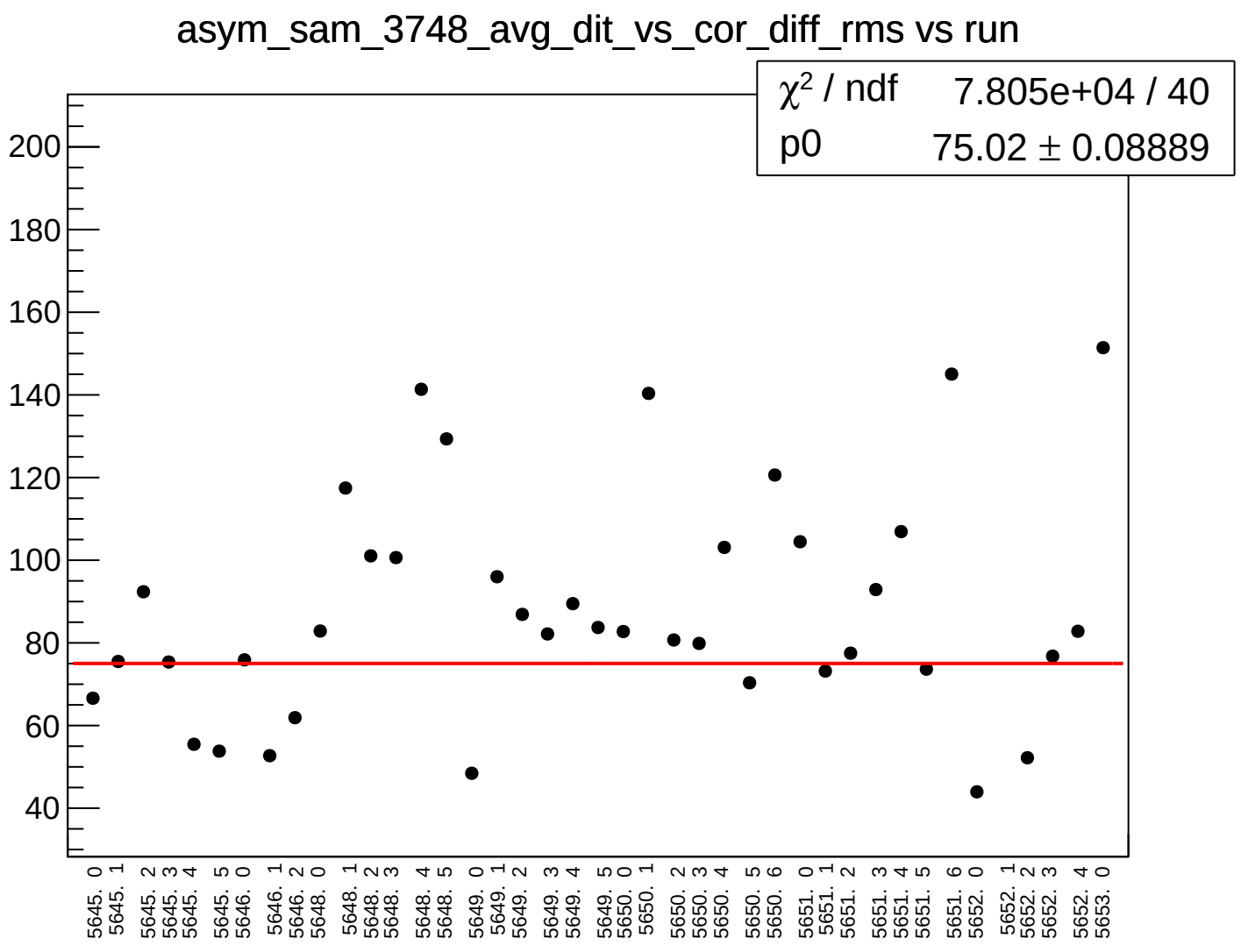

asym_sam_3748_avg_rms vs run
χ² / ndf 4054 / 40
p0 1401 ± 1.58
1700
1600
1500
1400
1300
1200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

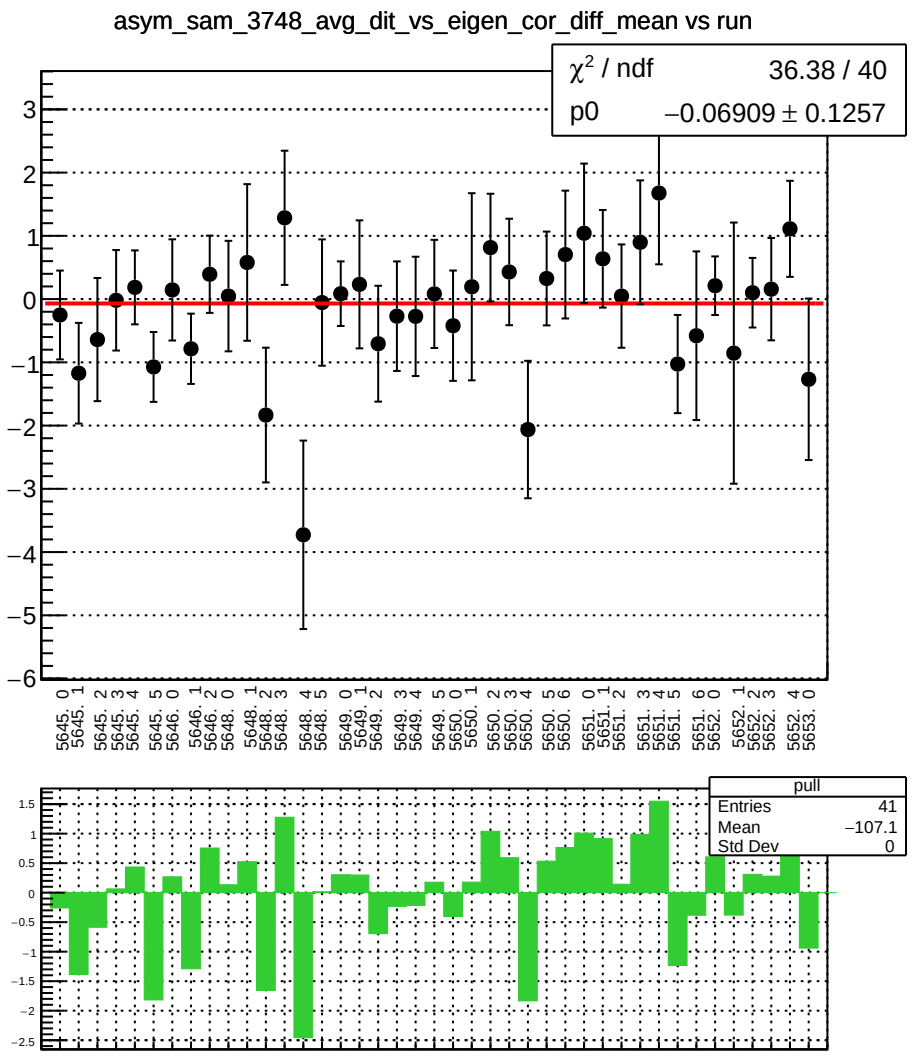

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 40.44 / 40
p0 4.309e−13 ± 1.794e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 43.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.1256
Std Dev 0.9852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

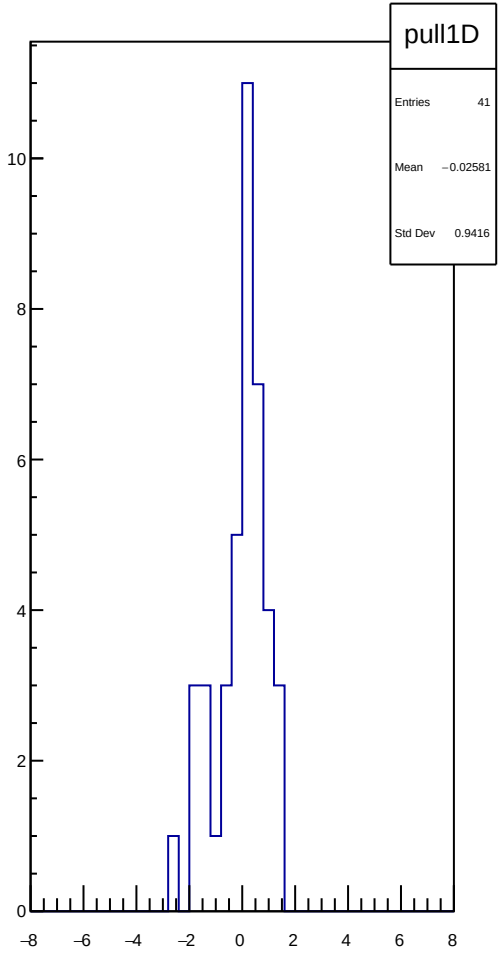

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.626e+05 / 40
p0 8.297e−11 ± 1.269e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

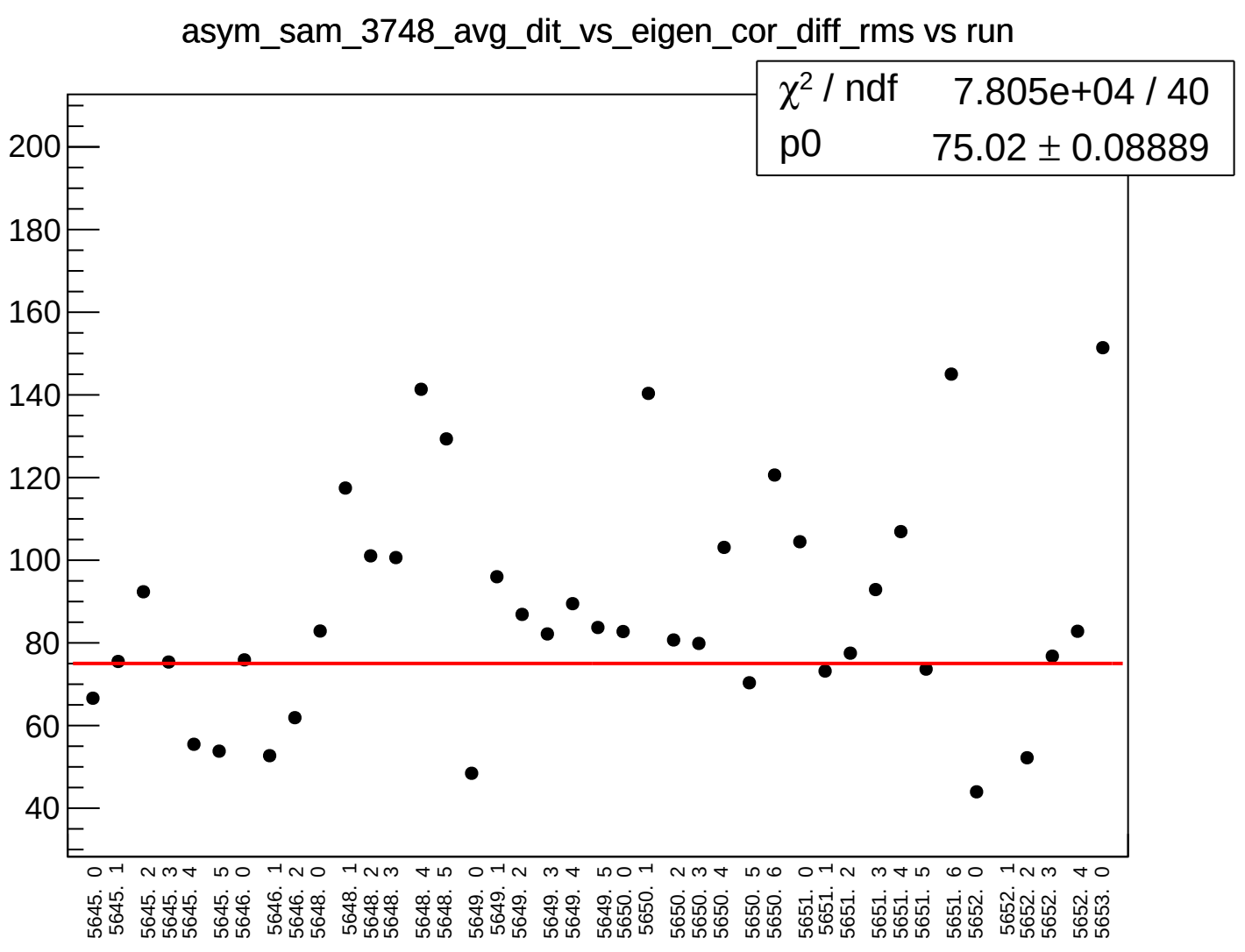

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 36.38 / 40
p0 −0.06909 ± 0.1257
pull
Entries 41
Mean −107.1
Std Dev 0

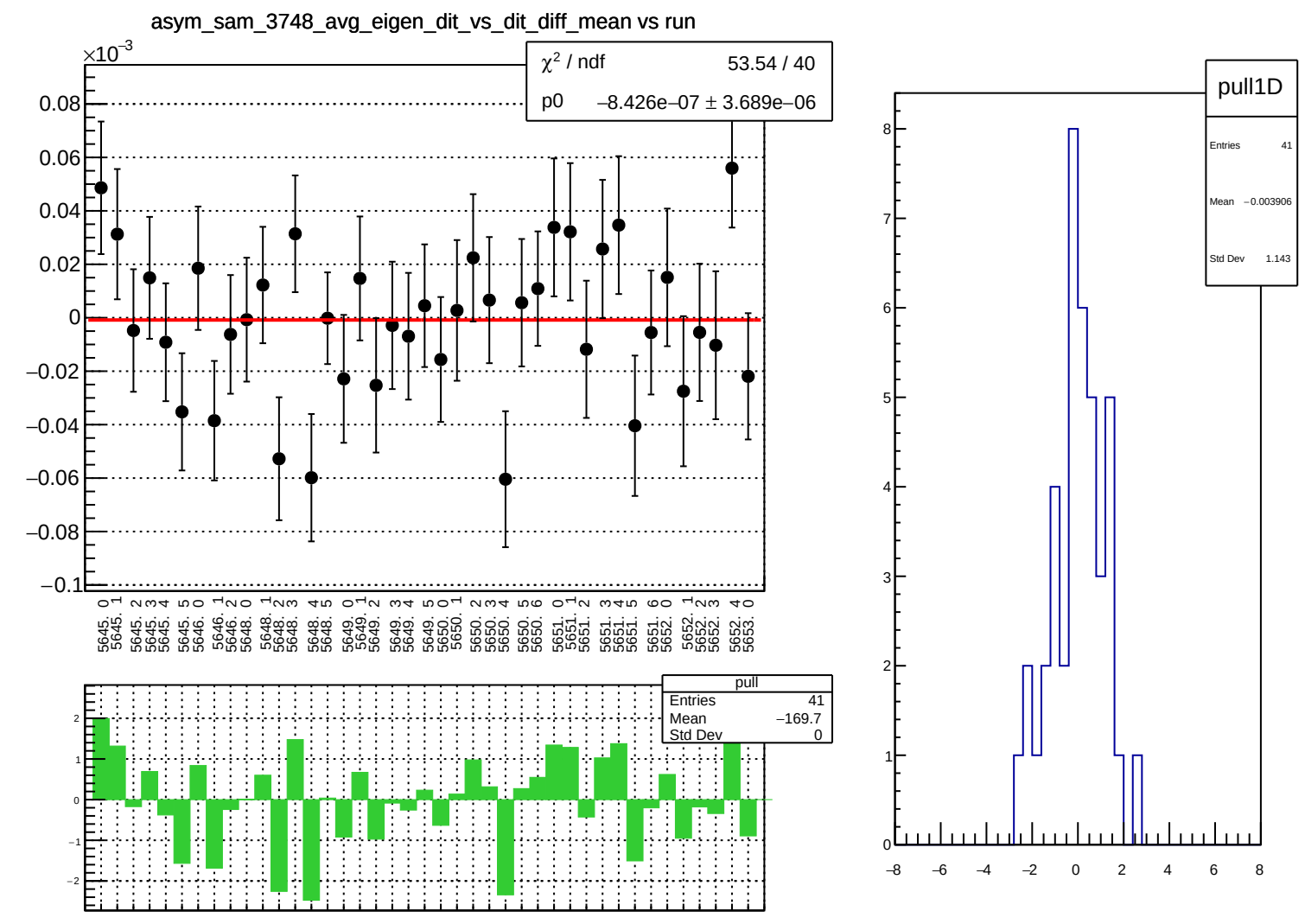

pull1D
Entries 41
Mean −0.02581
Std Dev 0.9416

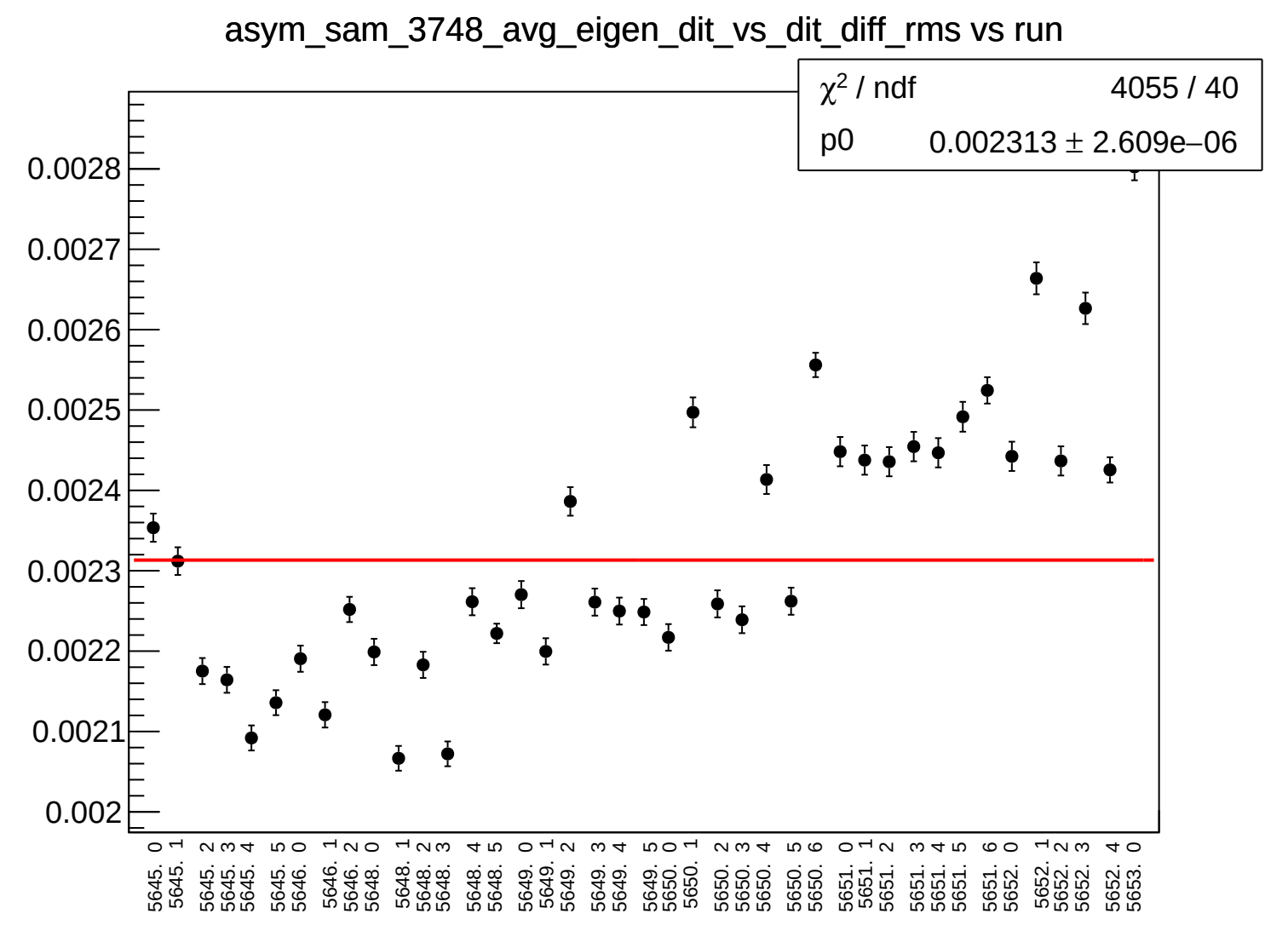

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.805e+04 / 40
p0 75.02 ± 0.08889
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

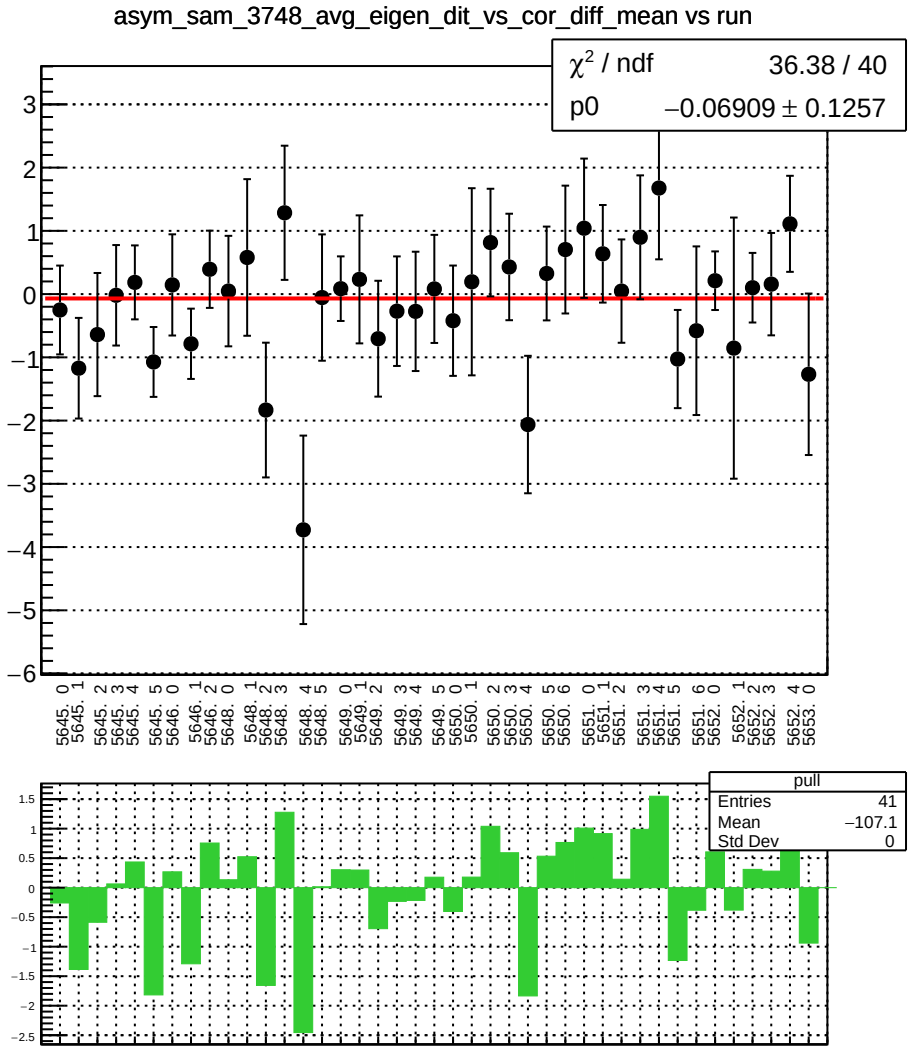

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.38 / 40
p0 −0.06909 ± 0.1257
pull
Entries 41
Mean −107.1
Std Dev 0

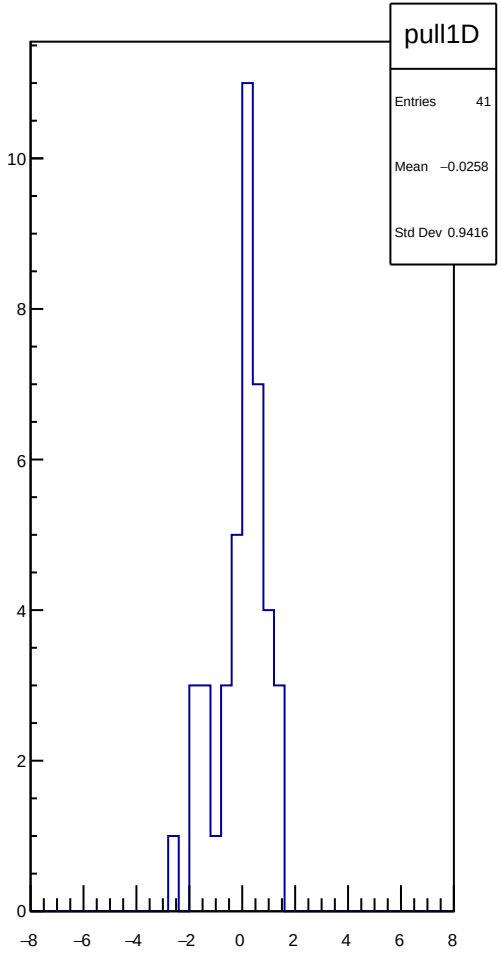

pull1D
Entries 41
Mean −0.02581
Std Dev 0.9416

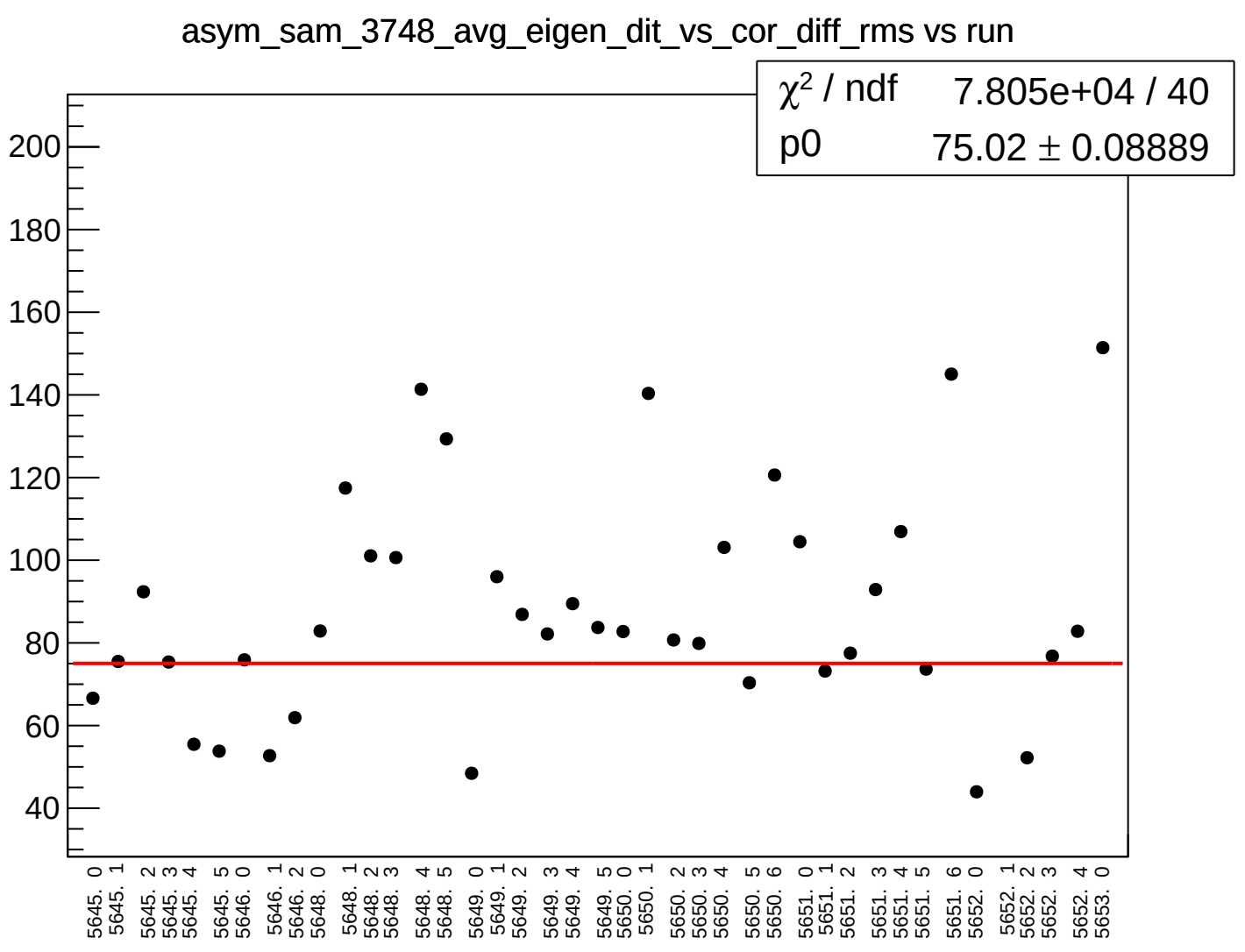

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.805e+04 / 40
p0 75.02 ± 0.08889
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

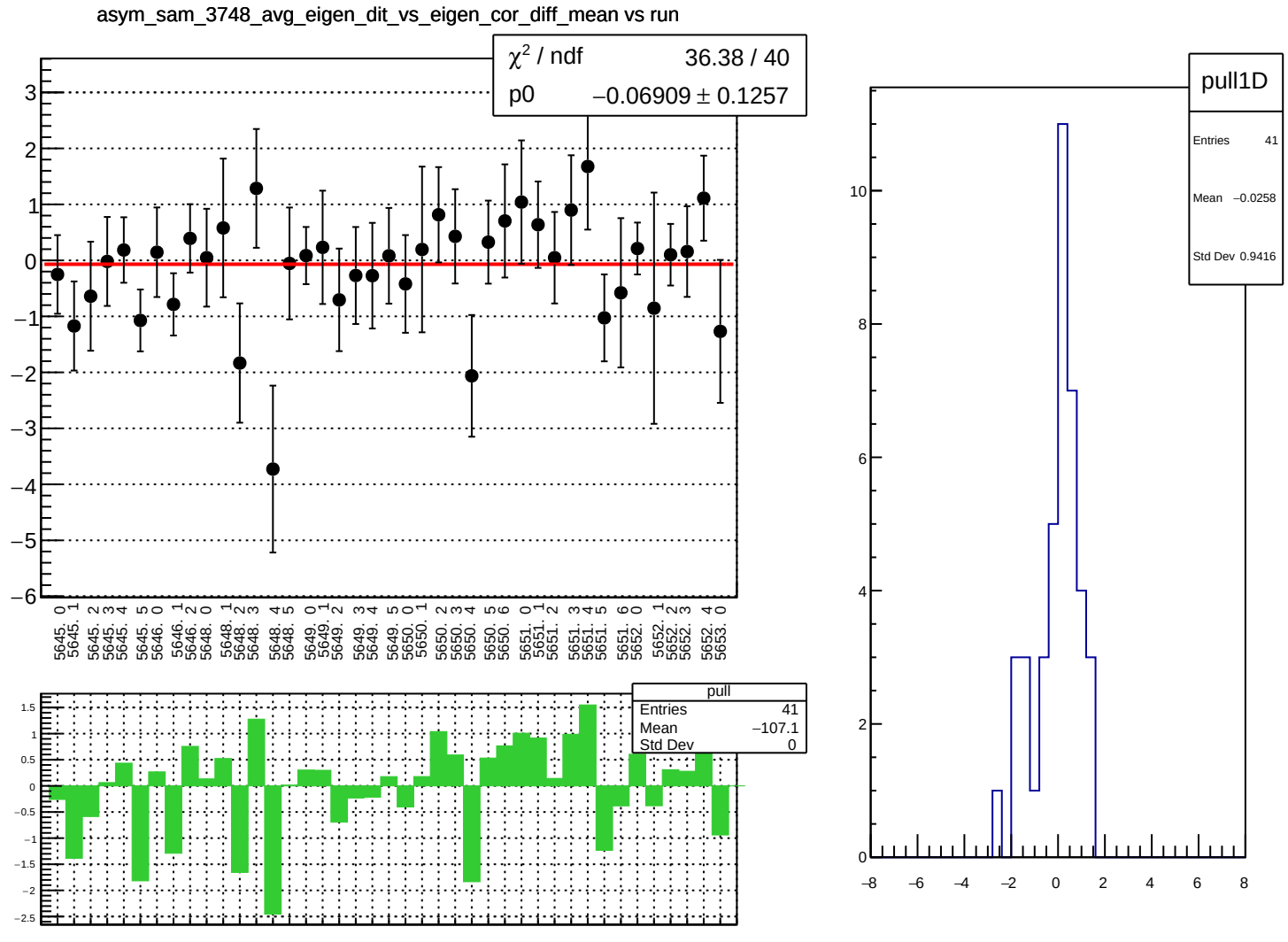

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.54 / 40
p0 −8.426e−07 ± 3.689e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −169.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.003906
Std Dev 1.143
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

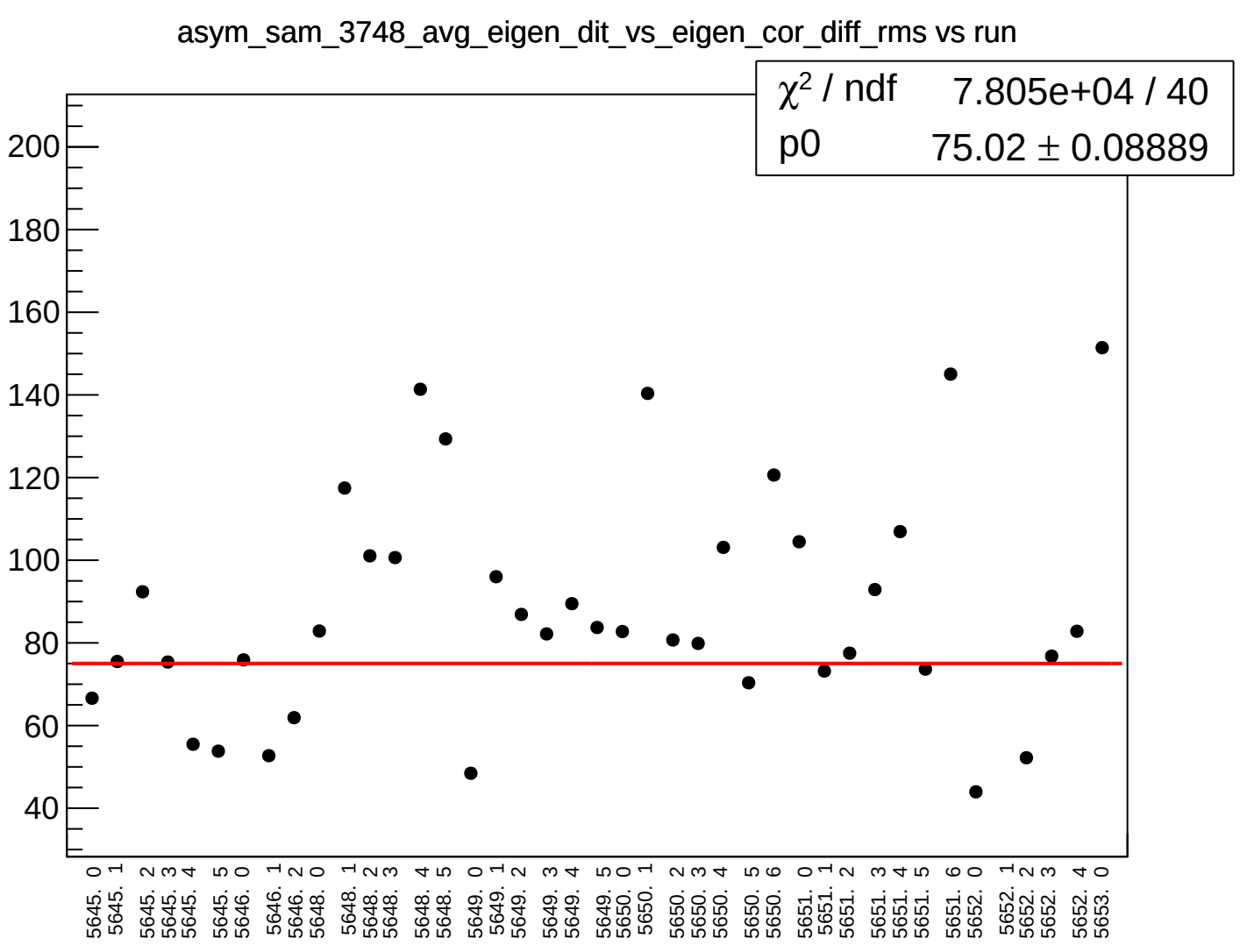

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4055 / 40
p0 0.002313 ± 2.609e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

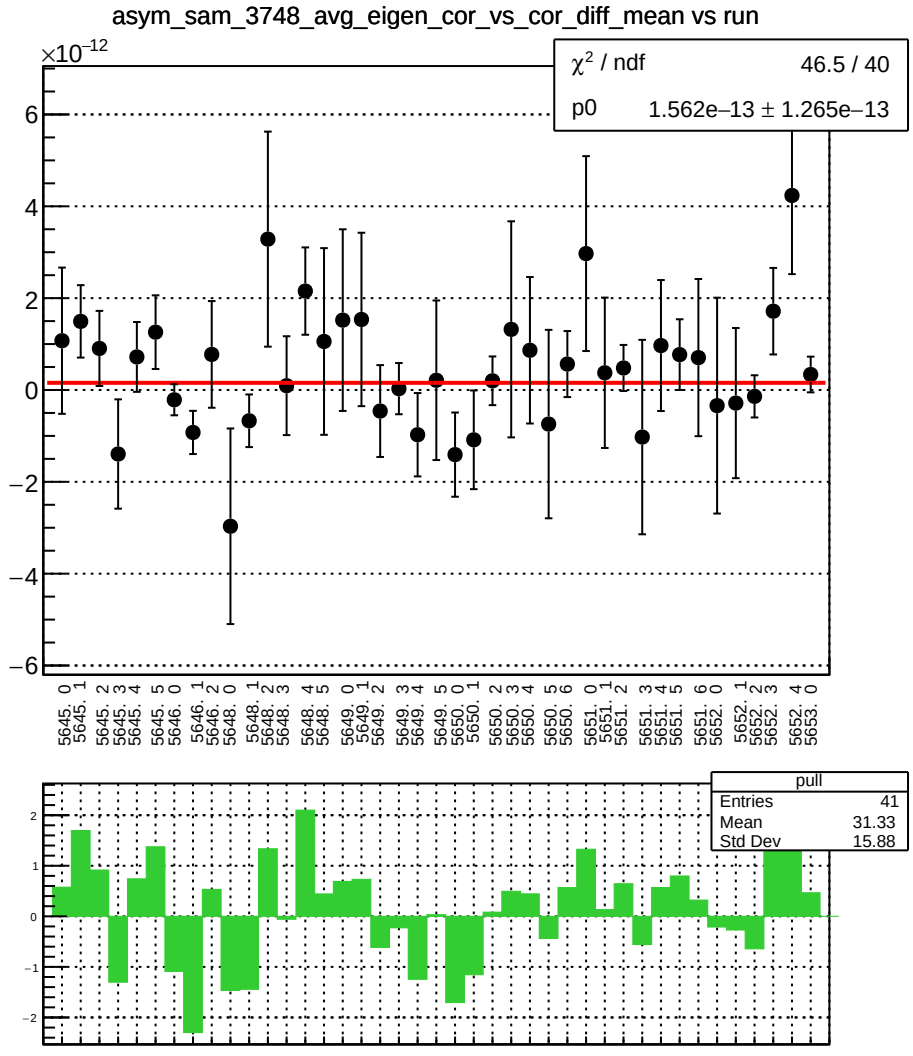

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 36.38 / 40
p0 −0.06909 ± 0.1257
pull
Entries 41
Mean −107.1
Std Dev 0

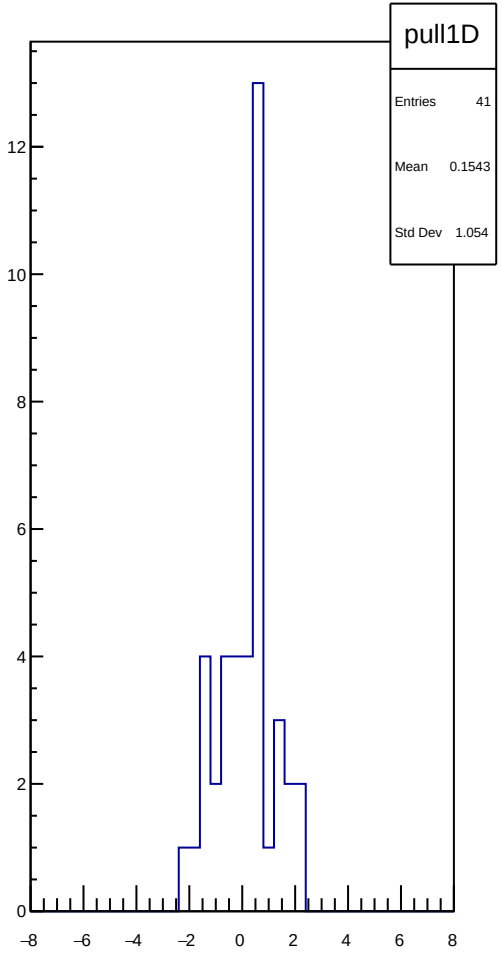

pull1D
Entries 41
Mean −0.0258
Std Dev 0.9416

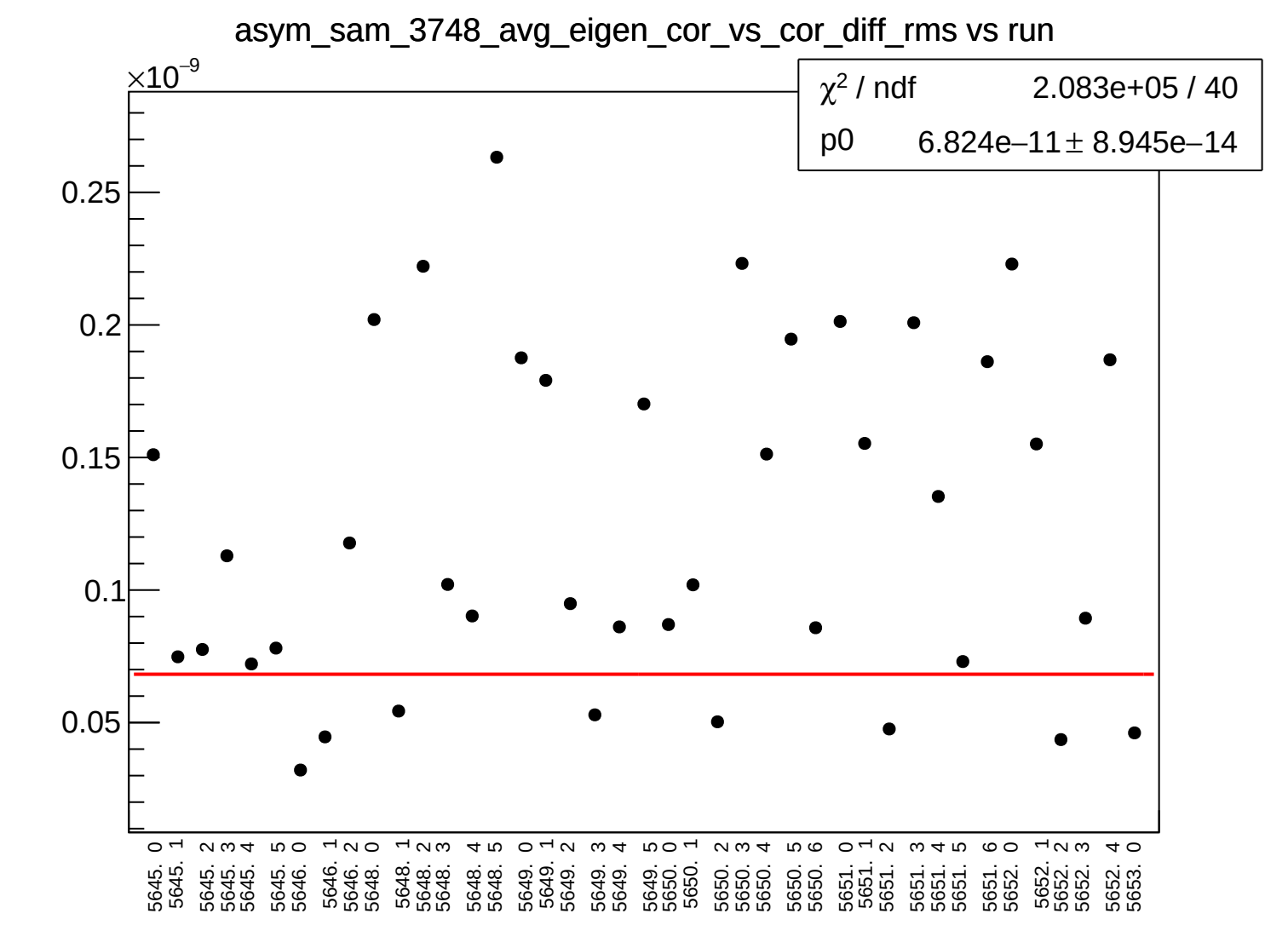

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.805e+04 / 40
p0 75.02 ± 0.08889
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

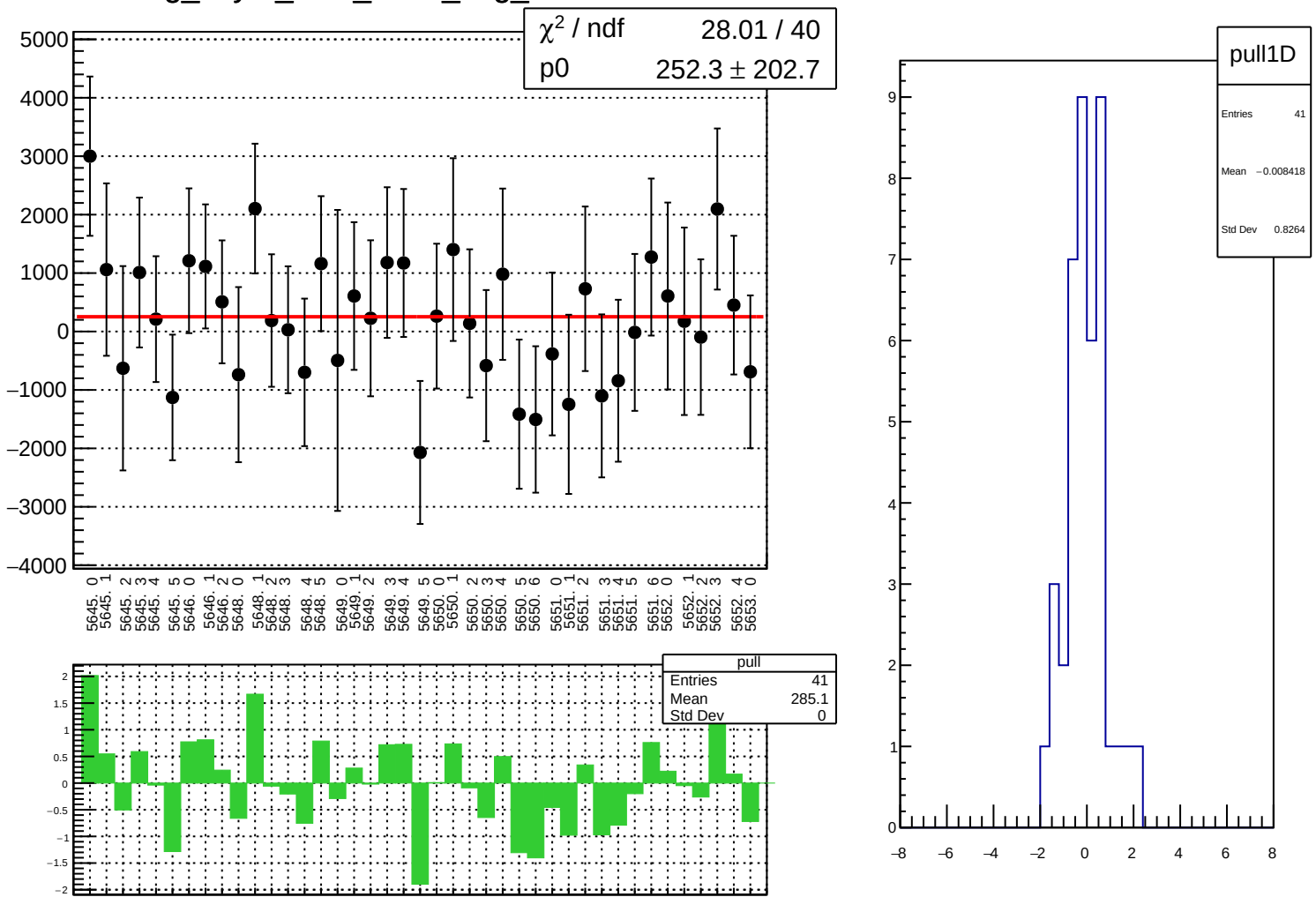

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 36.38 / 40
p0 −0.06909 ± 0.1257
pull
Entries 41
Mean −107.1
Std Dev 0
pull1D
Entries 41
Mean −0.0258
Std Dev 0.9416

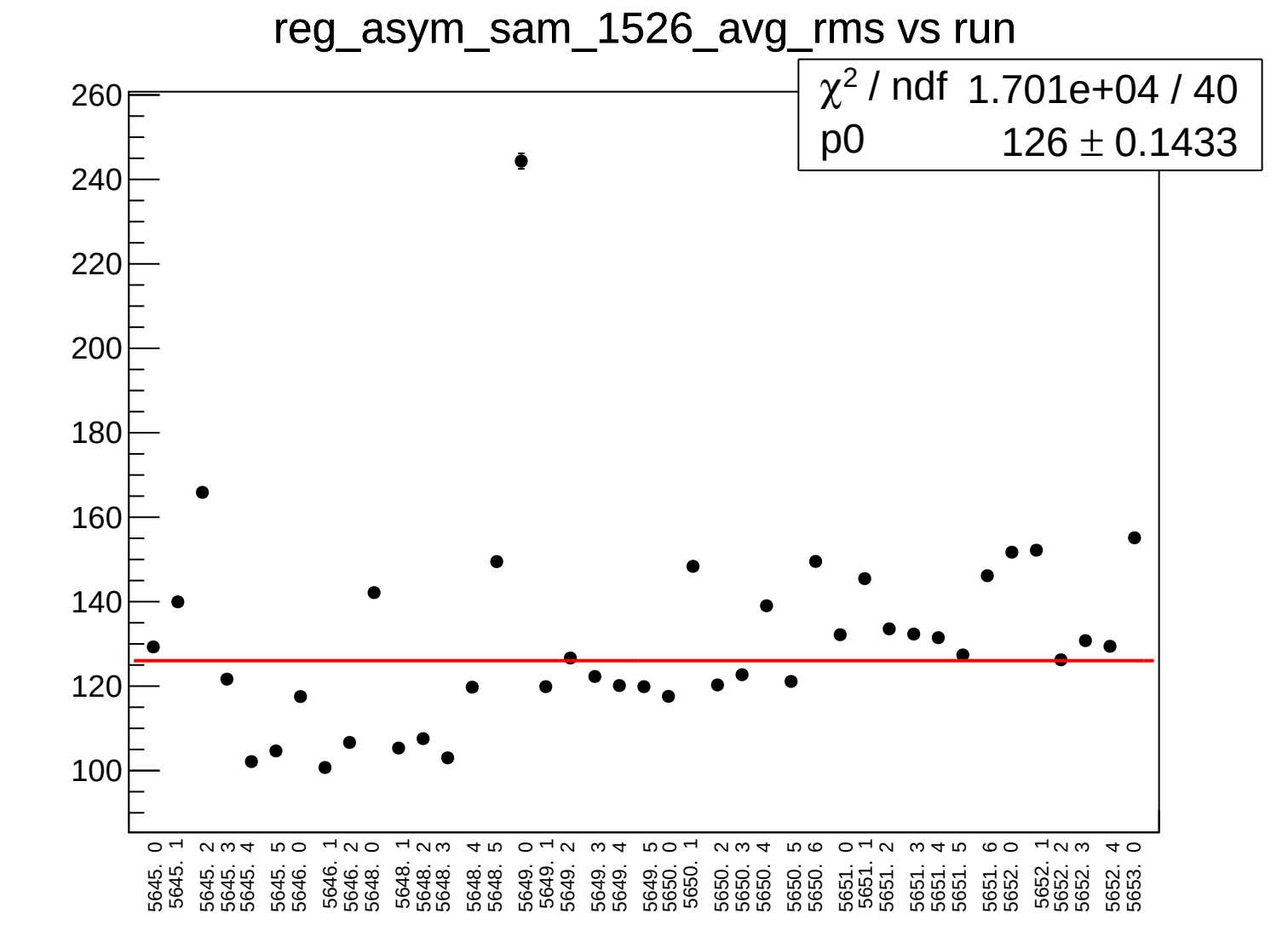

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.805e+04 / 40
p0 75.02 ± 0.08889
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

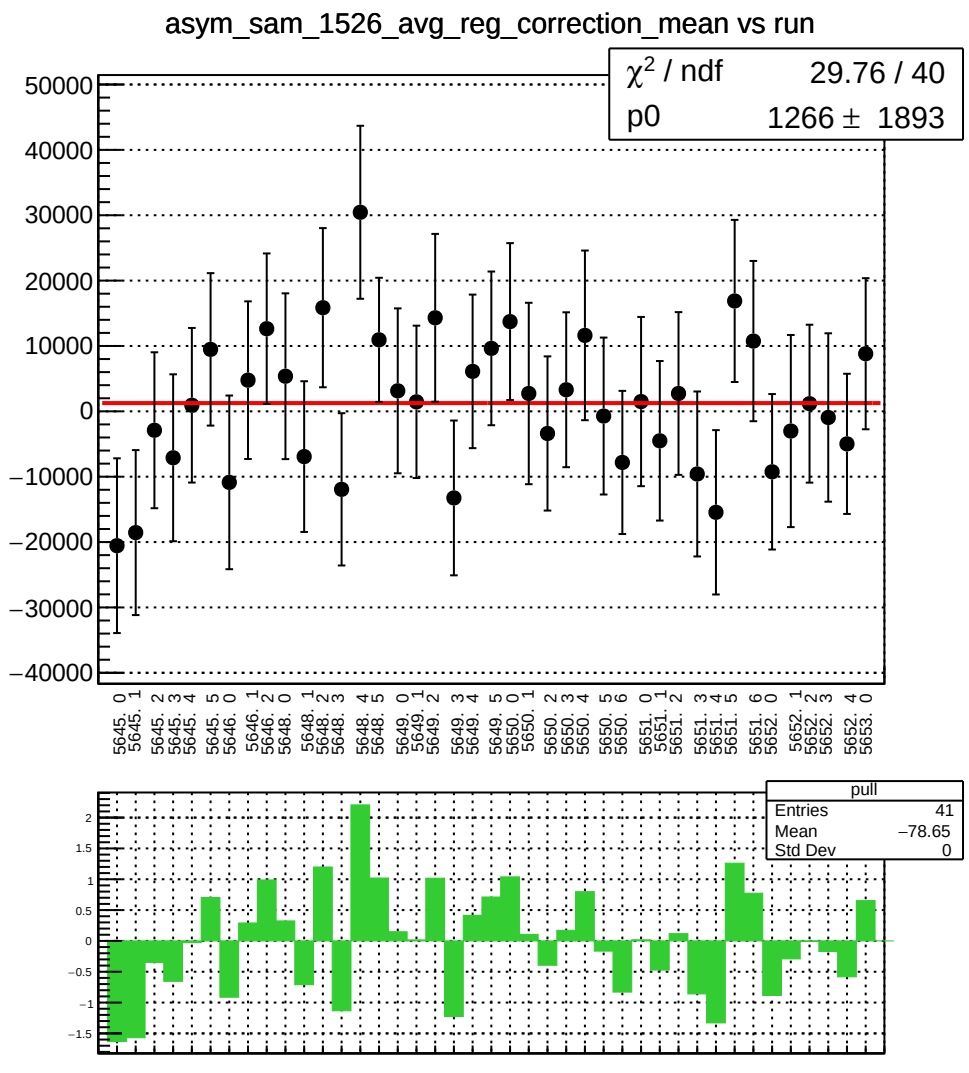

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.5 / 40
p0 1.562e−13 ± 1.265e−13
pull
Entries 41
Mean 31.33
Std Dev 15.88

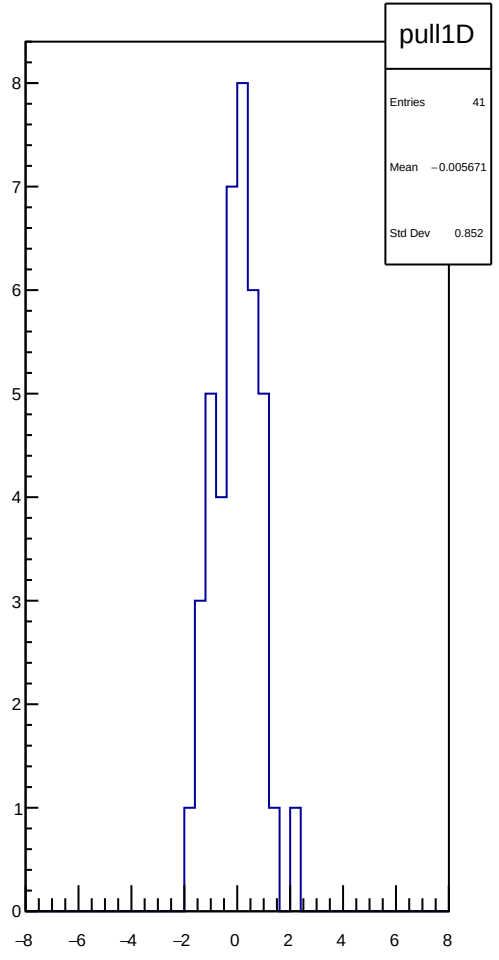

pull1D
Entries 41
Mean 0.1543
Std Dev 1.054

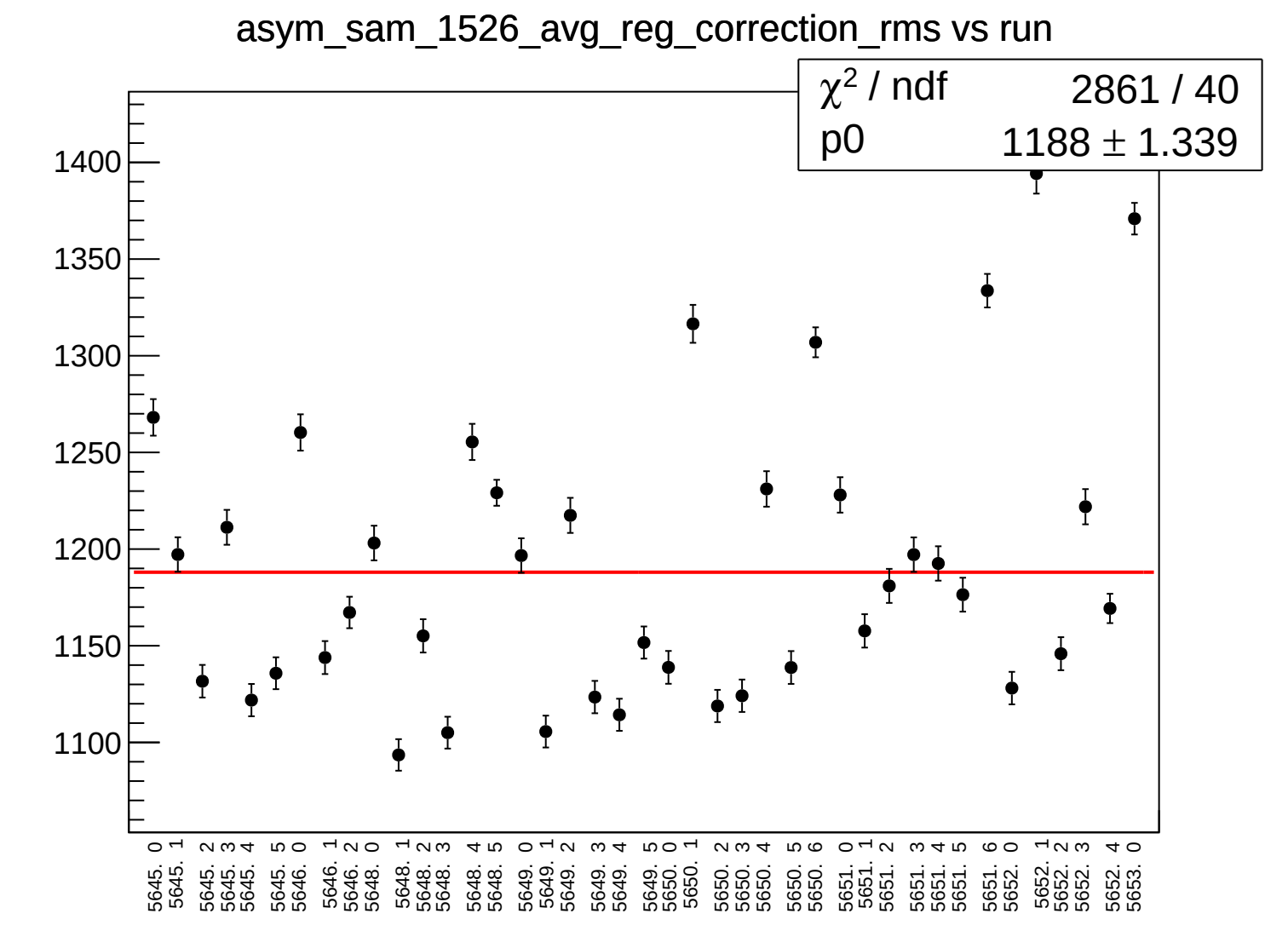

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.083e+05 / 40
p0 6.824e−11 ± 8.945e−14
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

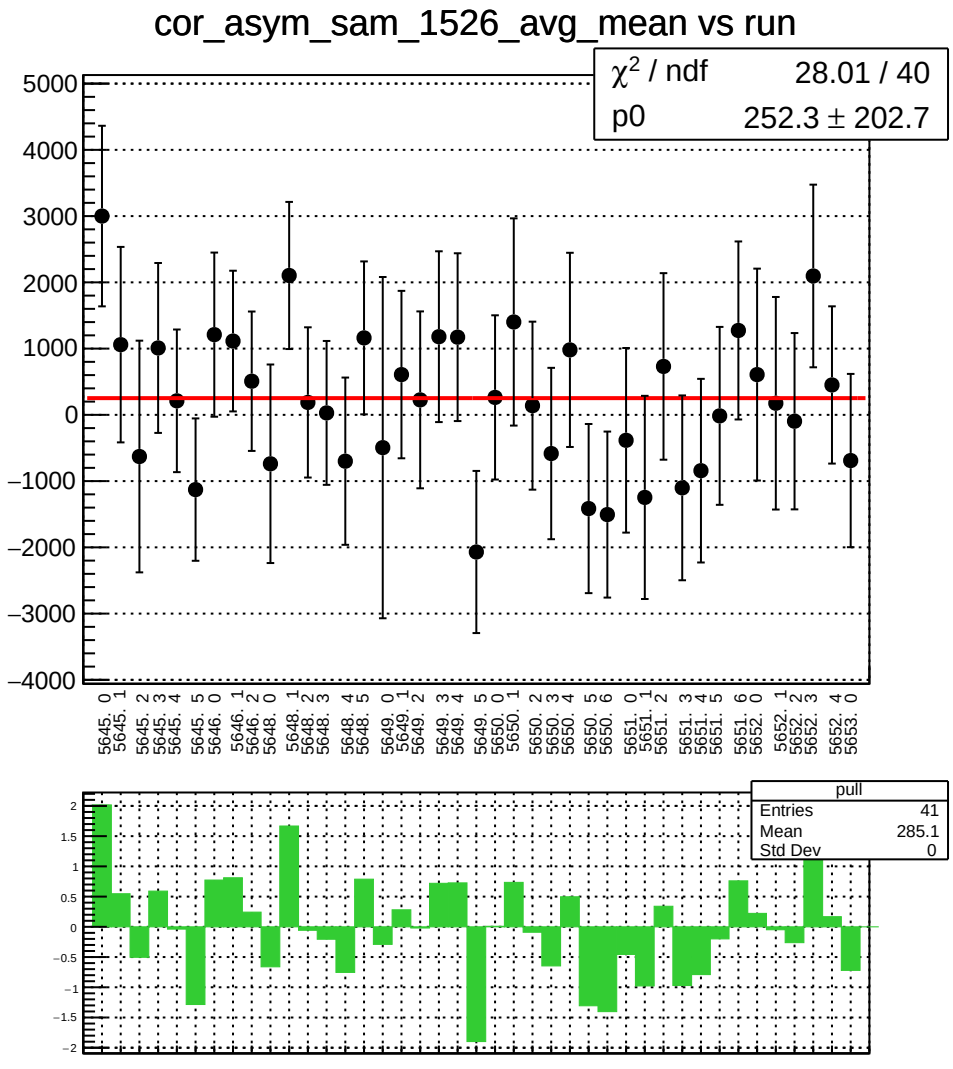

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 28.01 / 40
p0 252.3 ± 202.7
pull
Entries 41
Mean 285.1
Std Dev 0
pull1D
Entries 41
Mean −0.008418
Std Dev 0.8264

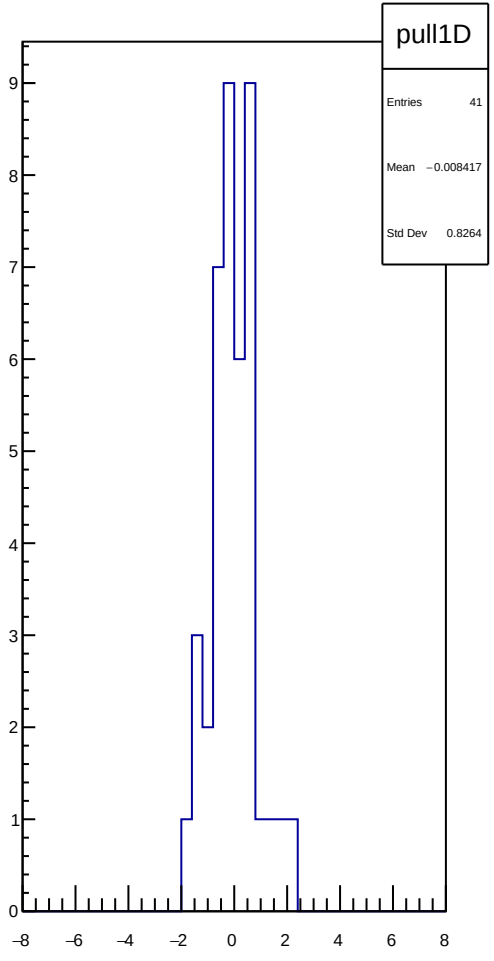

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.701e+04 / 40
p0 126 ± 0.1433
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

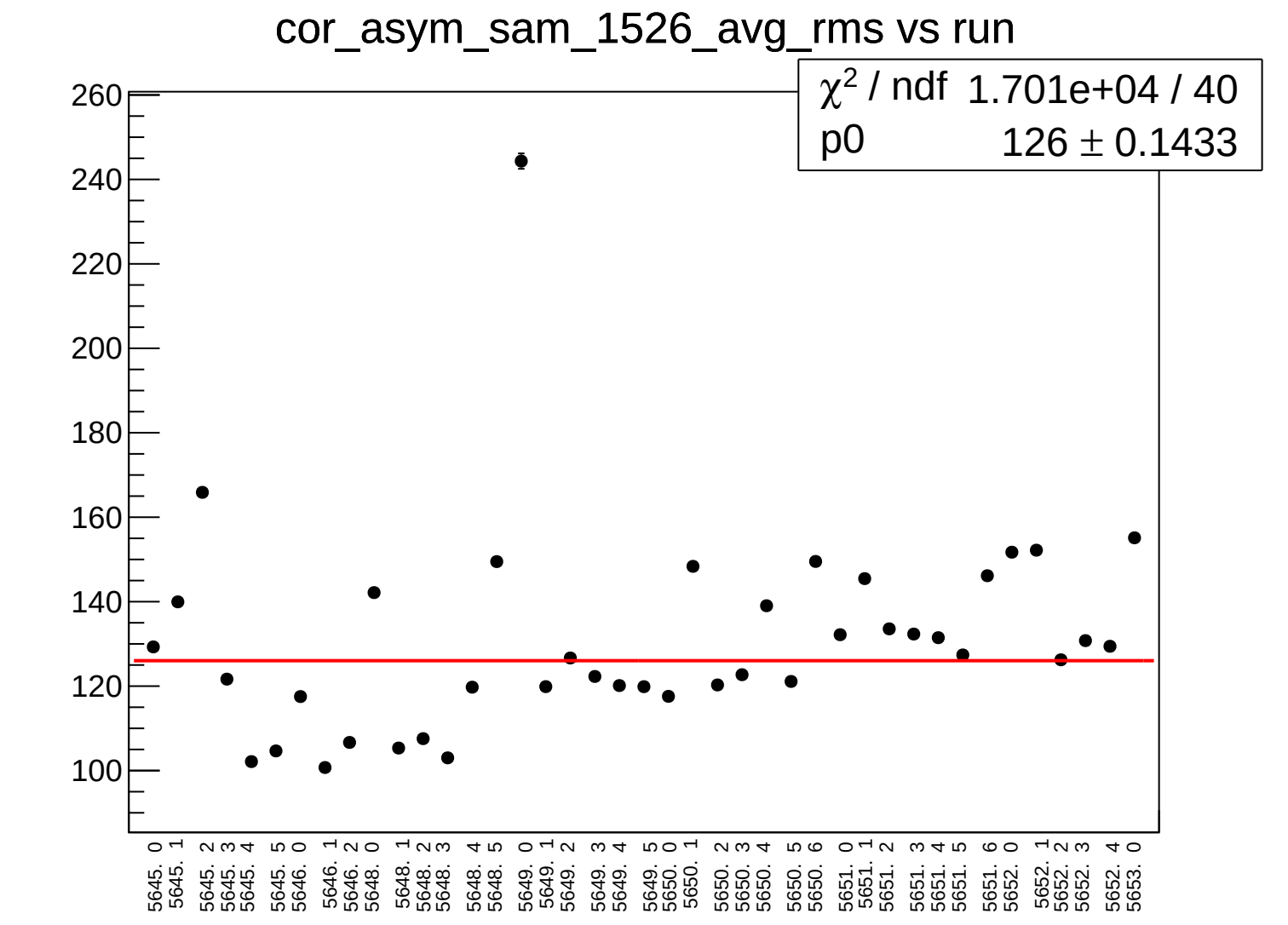

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 29.76 / 40
p0 1266 ± 1893
pull
Entries 41
Mean −78.65
Std Dev 0

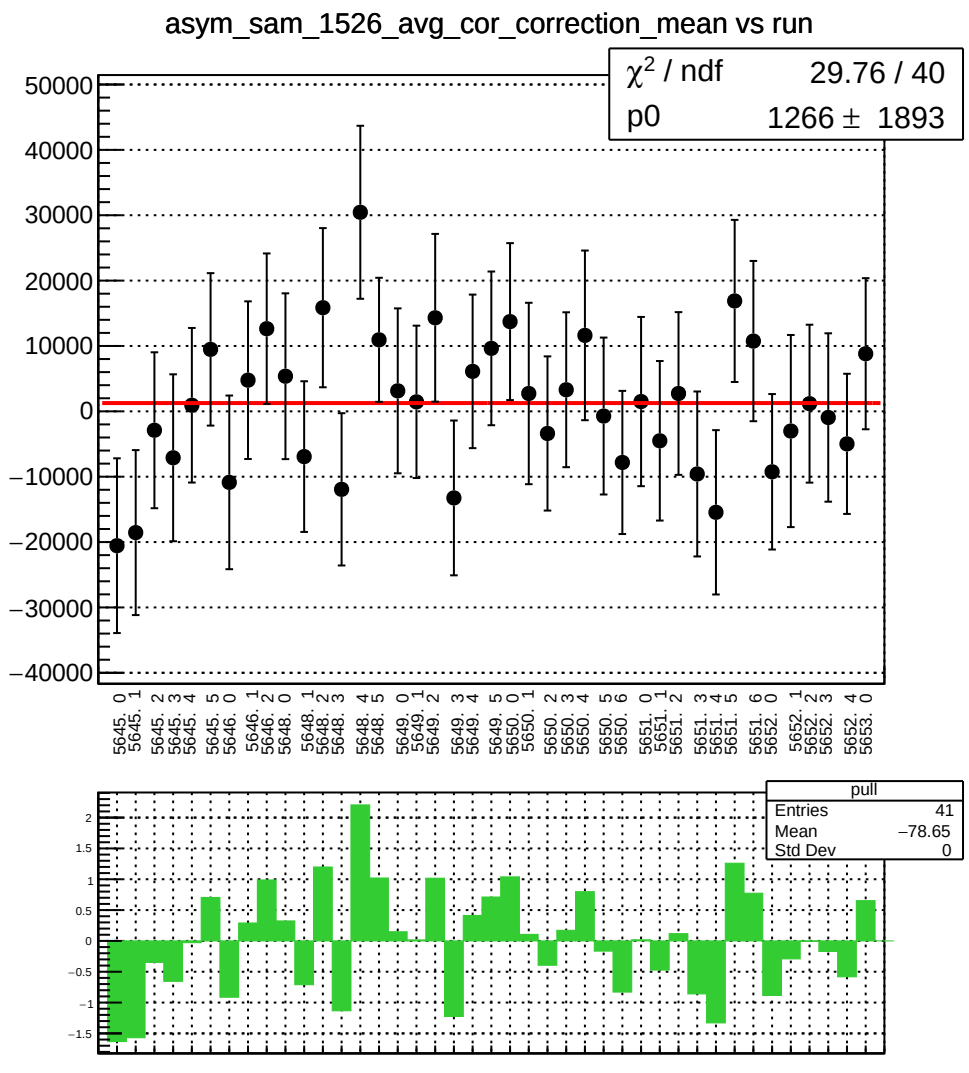

pull1D
Entries 41
Mean −0.005671
Std Dev 0.852

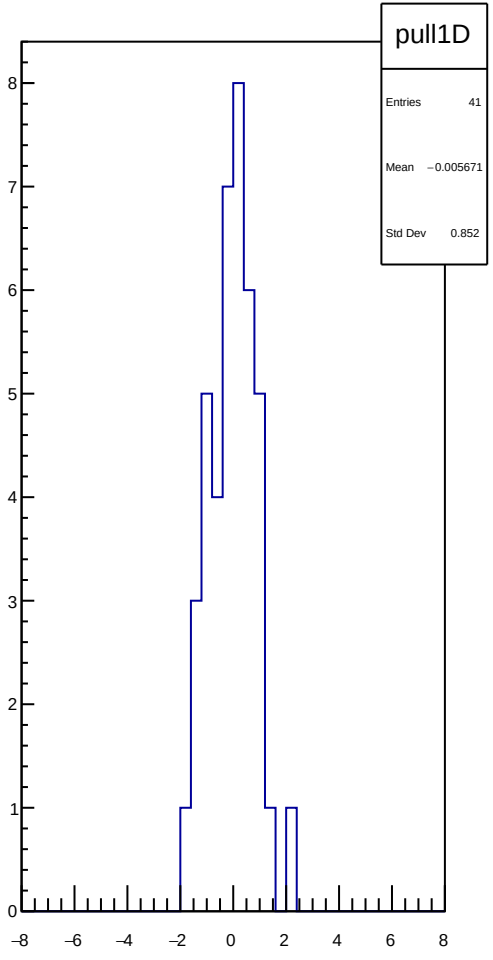

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2861 / 40
p0 1188 ± 1.339
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

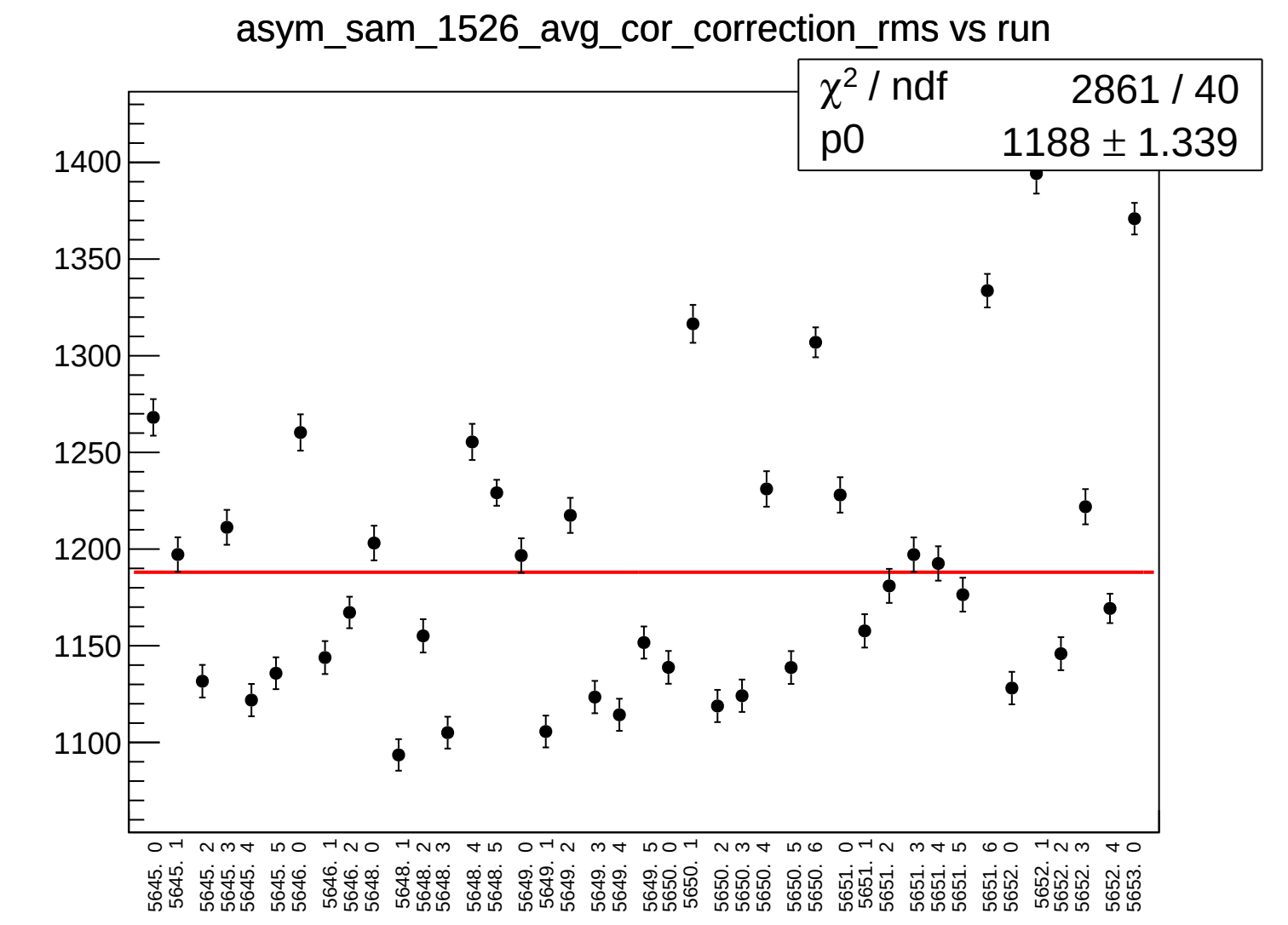

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 28.01 / 40
p0 252.3 ± 202.7
pull
Entries 41
Mean 285.1
Std Dev 0

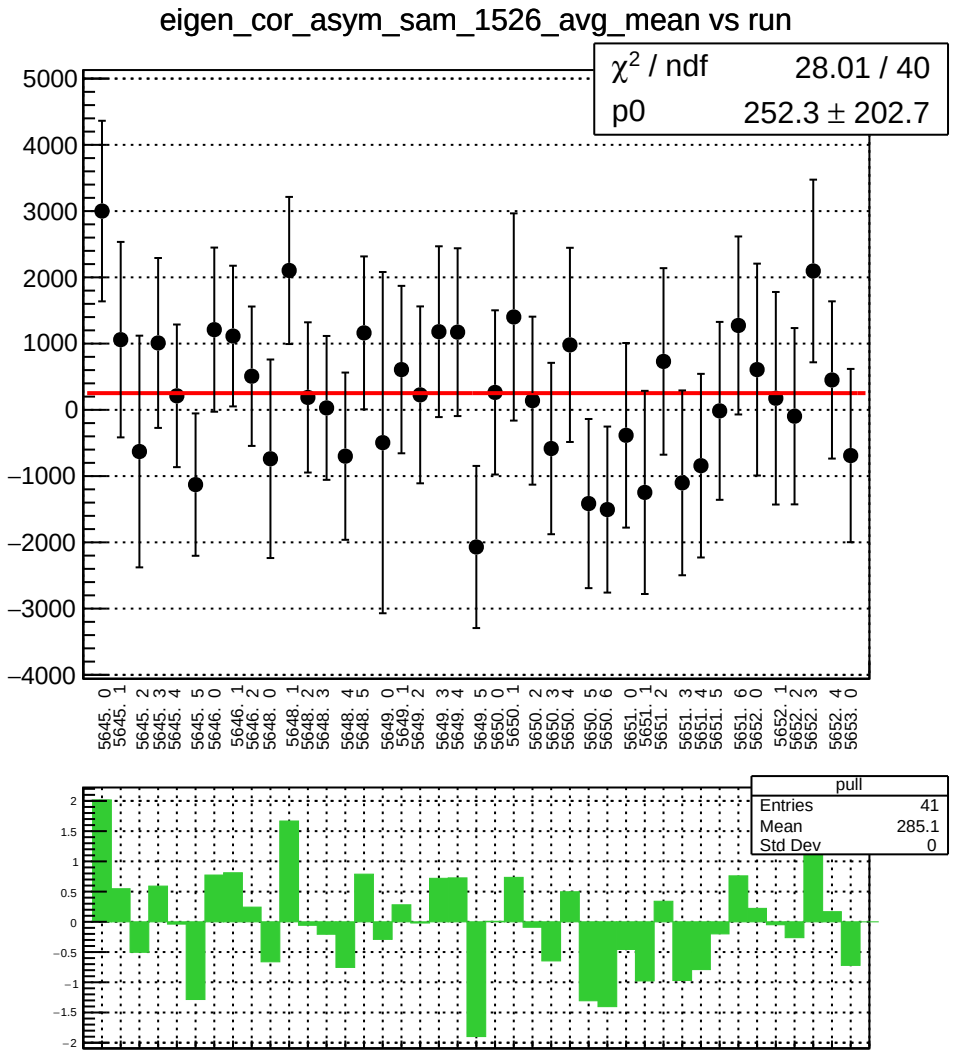

pull1D
Entries 41
Mean −0.008417
Std Dev 0.8264

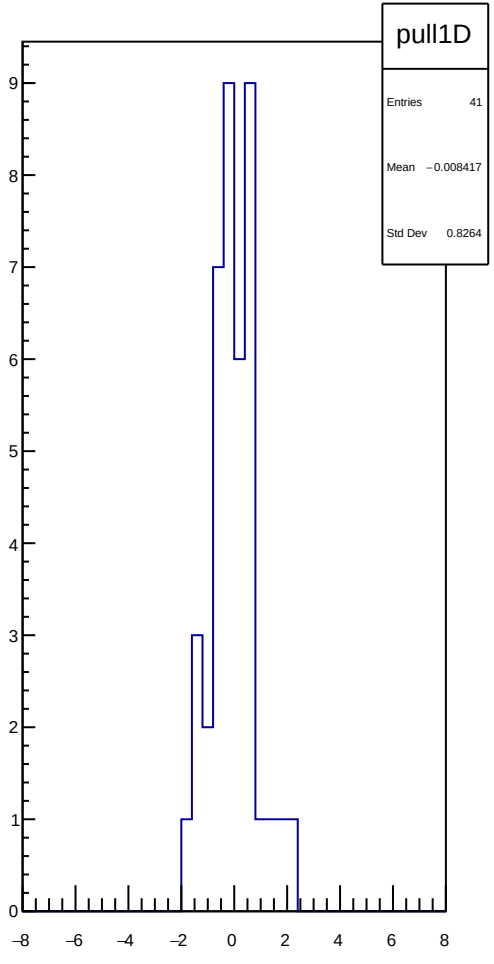

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.701e+04 / 40
p0 126 ± 0.1433
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

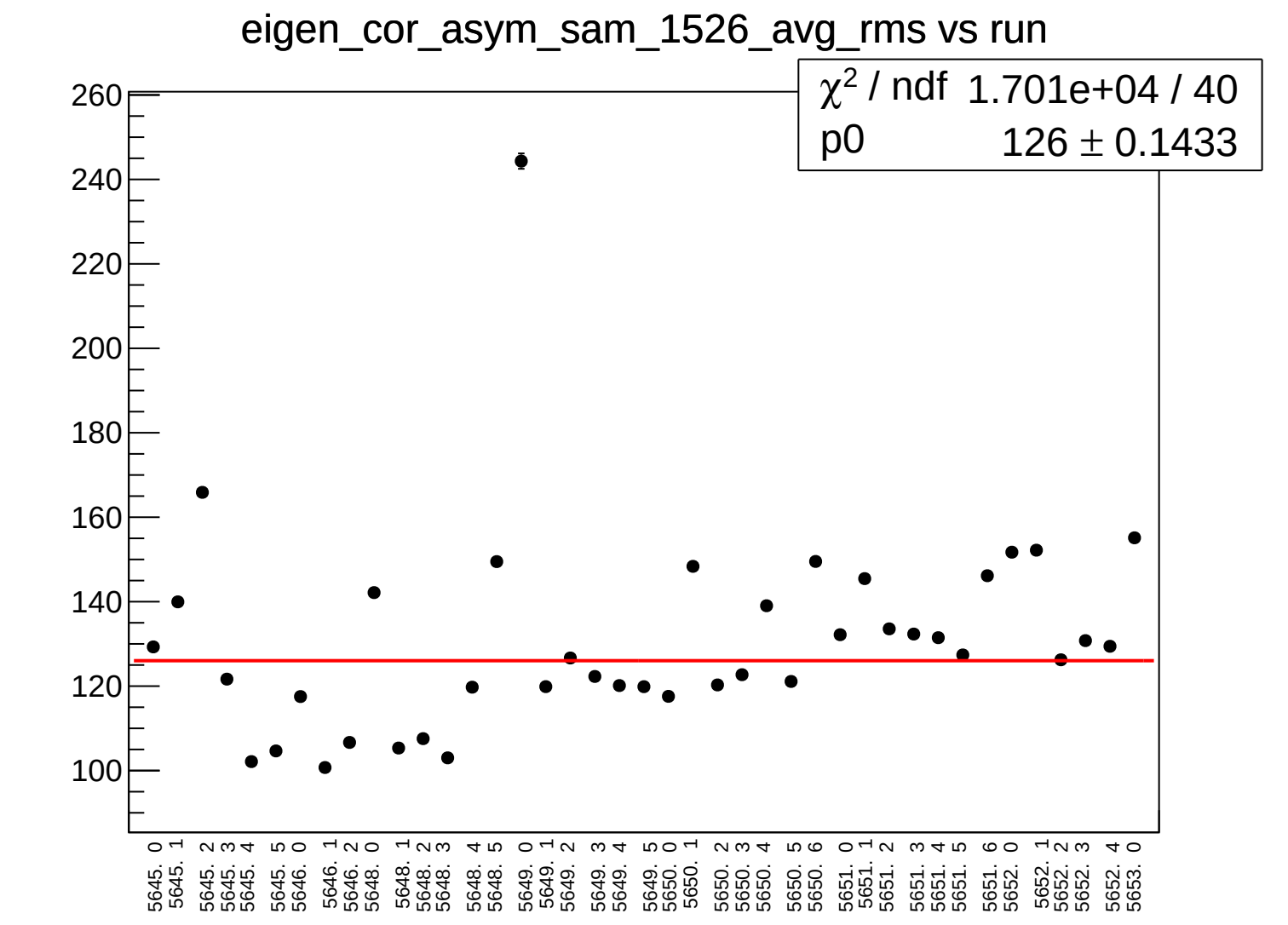

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 29.76 / 40
p0 1266 ± 1893
pull
Entries 41
Mean −78.65
Std Dev 0

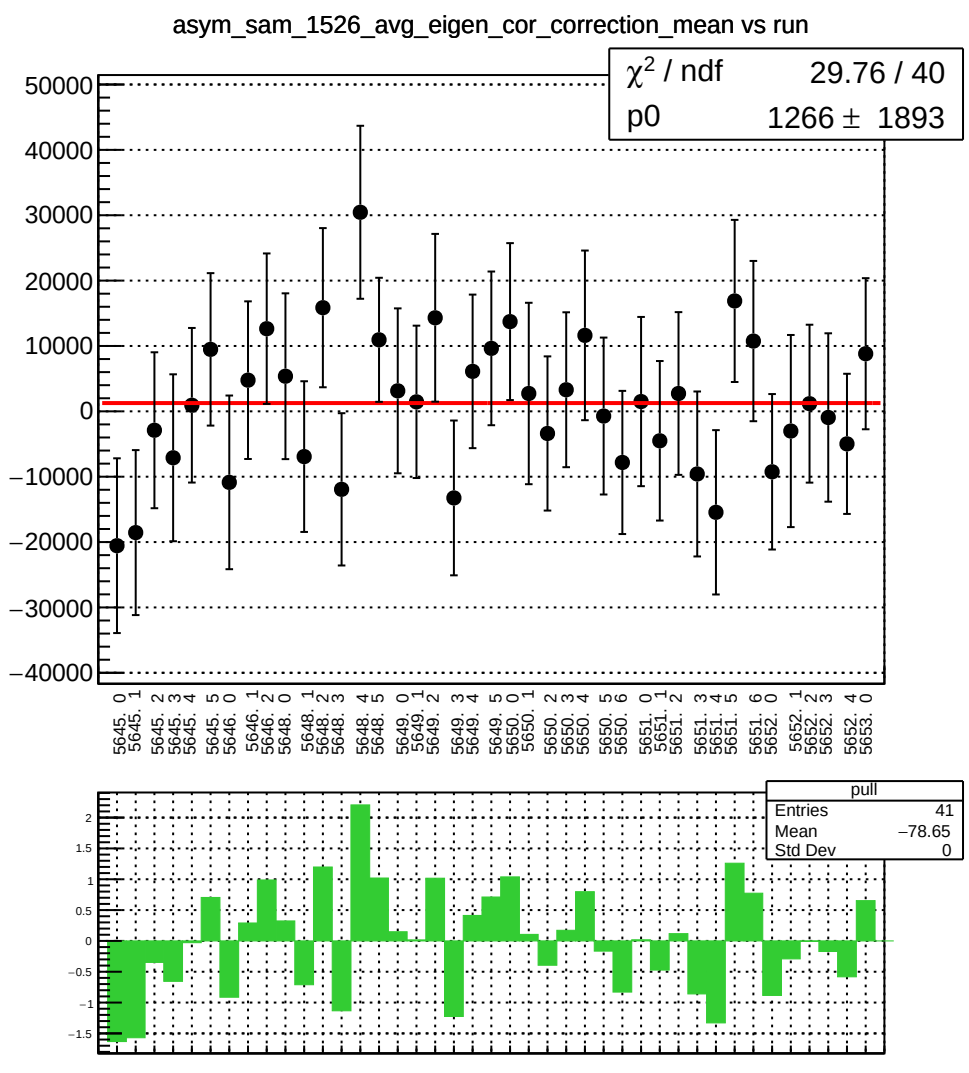

pull1D
Entries 41
Mean −0.005671
Std Dev 0.852

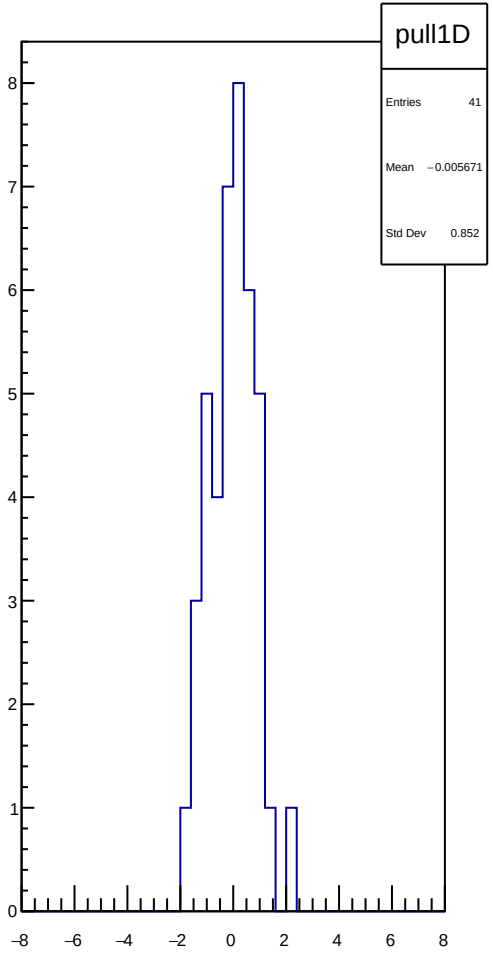

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2861 / 40
p0 1188 ± 1.339
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

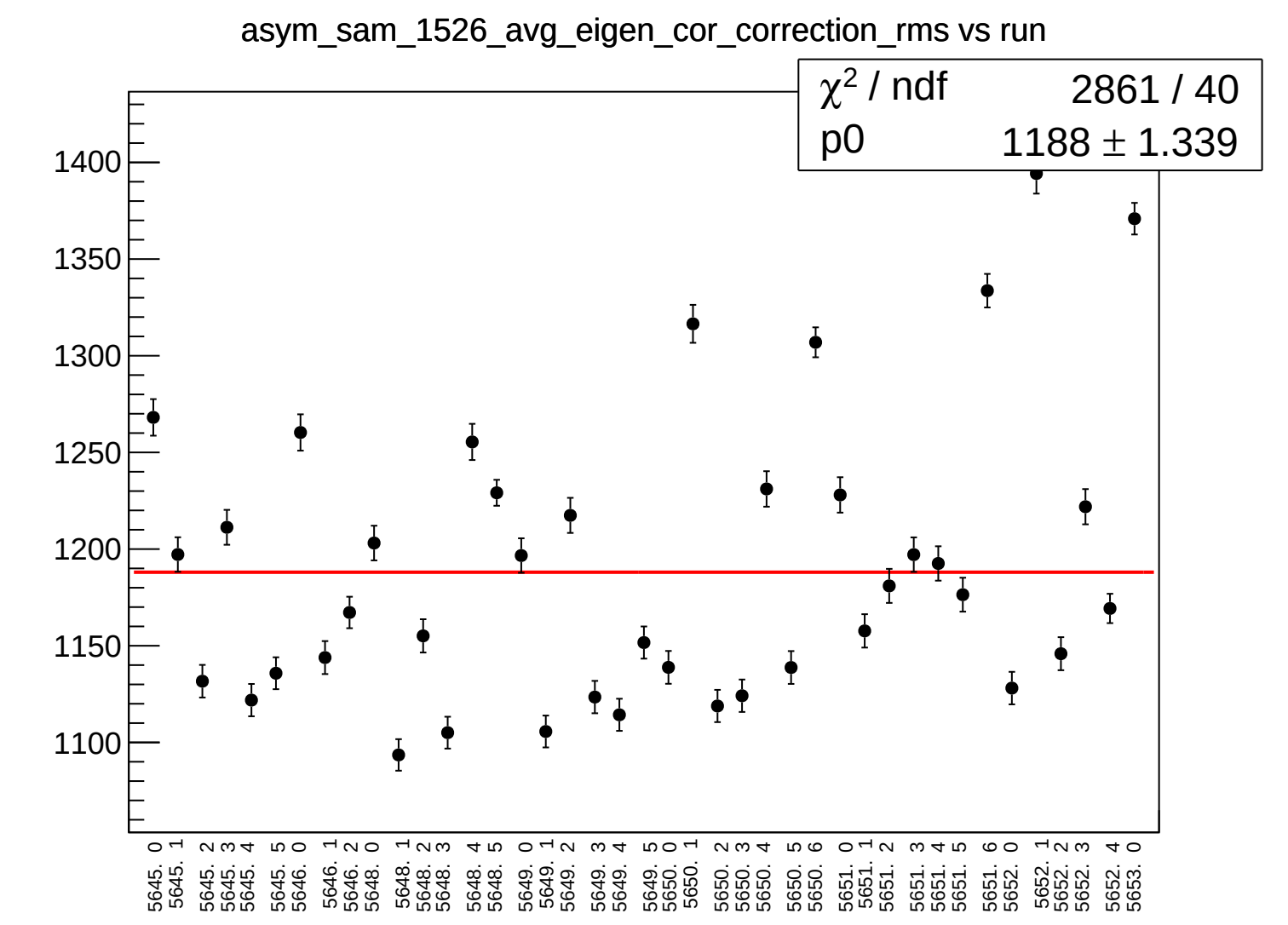

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 28.01 / 40
p0 252.3 ± 202.7
pull
Entries 41
Mean 285.1
Std Dev 0

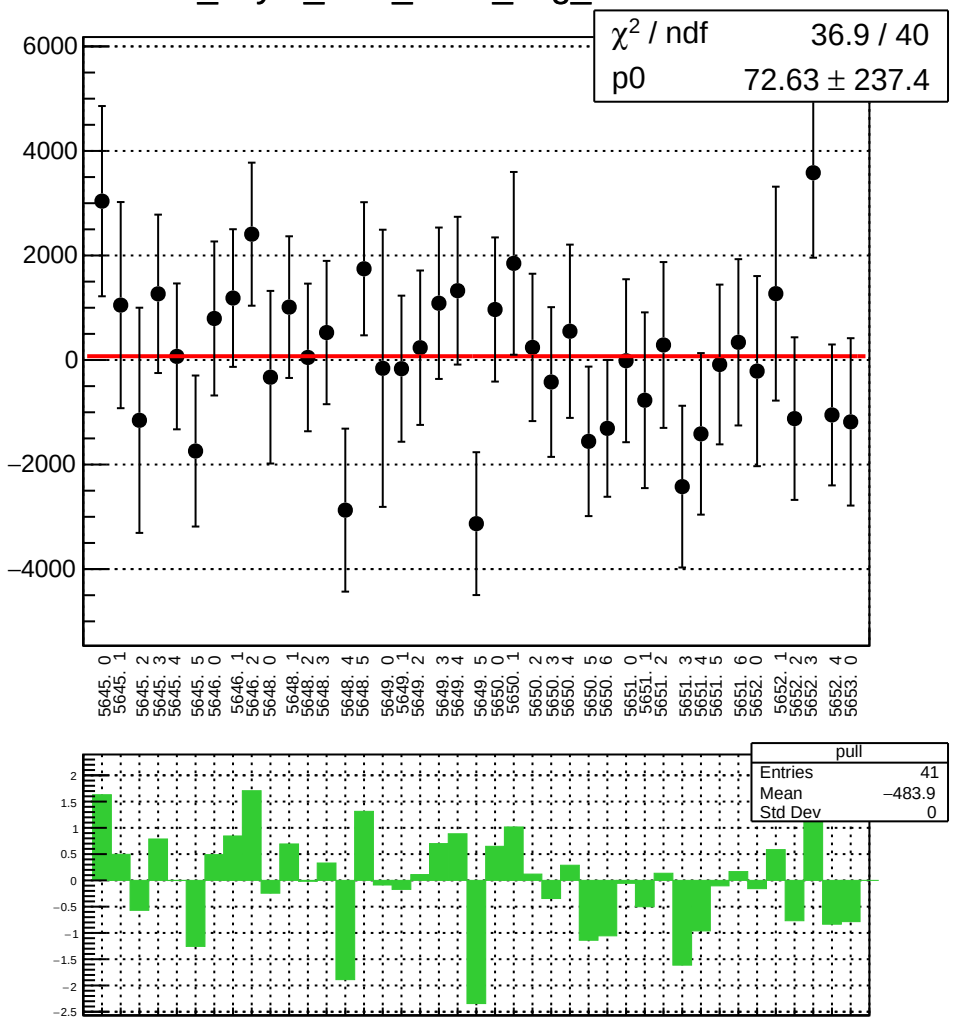

pull1D
Entries 41
Mean −0.008417
Std Dev 0.8264

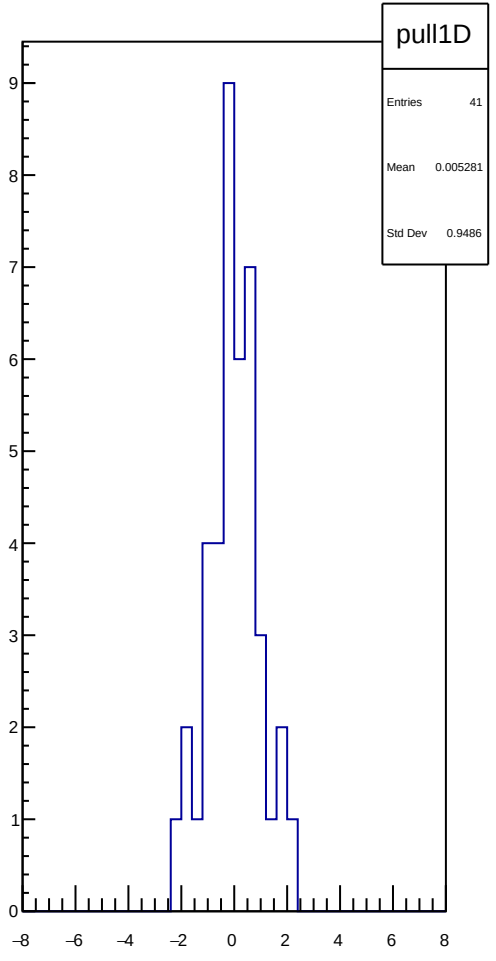

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.701e+04 / 40
p0 126 ± 0.1433
260
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

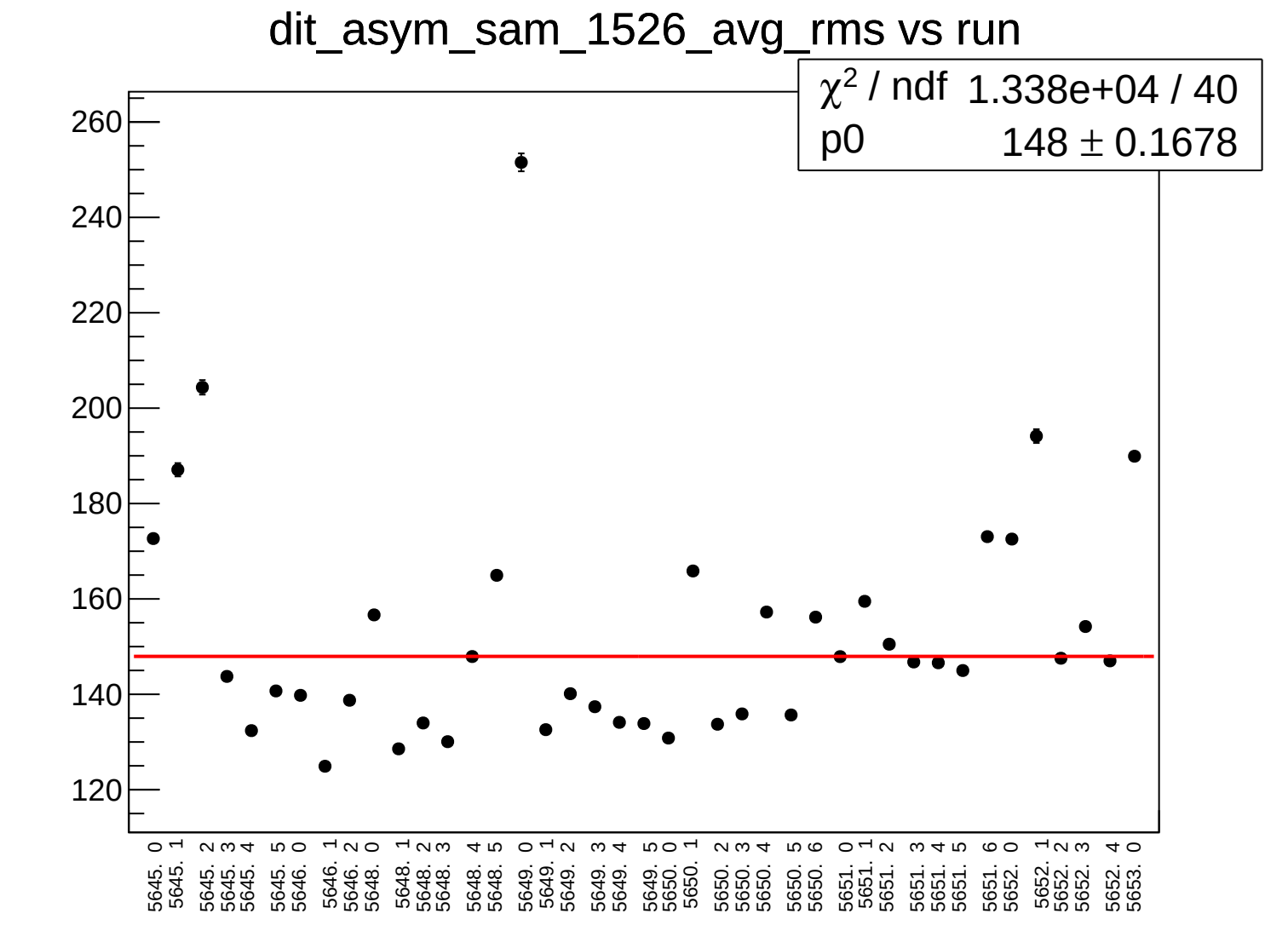

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 29.76 / 40
p0 1266 ± 1893
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −78.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

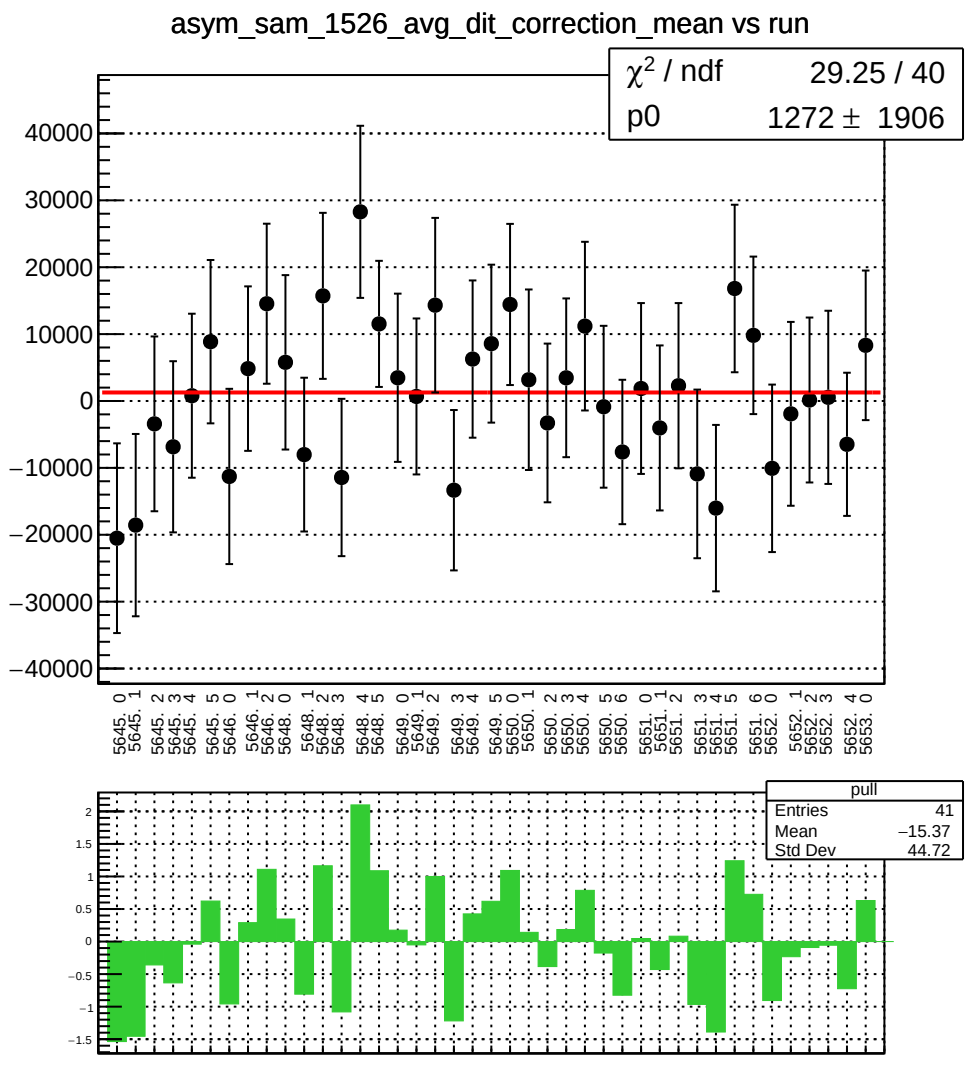

pull1D
Entries 41
Mean −0.005671
Std Dev 0.852
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

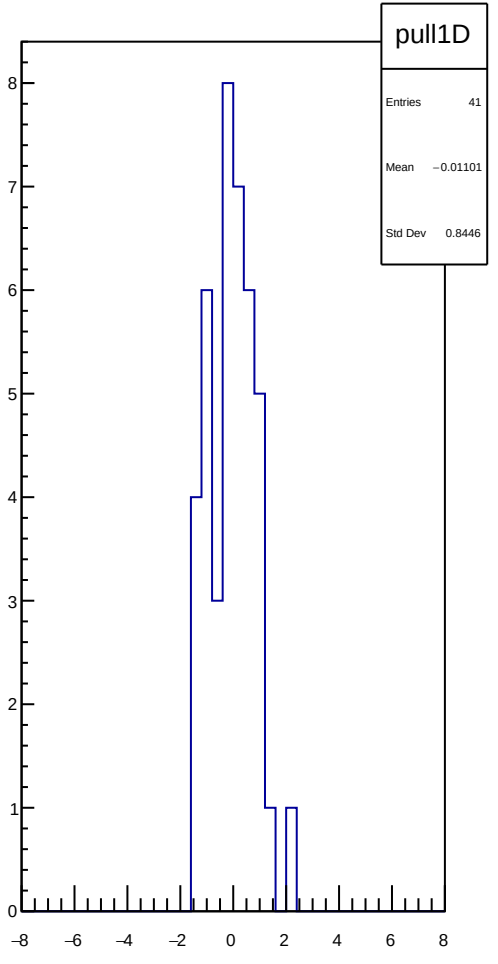

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2861 / 40
p0 1188 ± 1.339
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

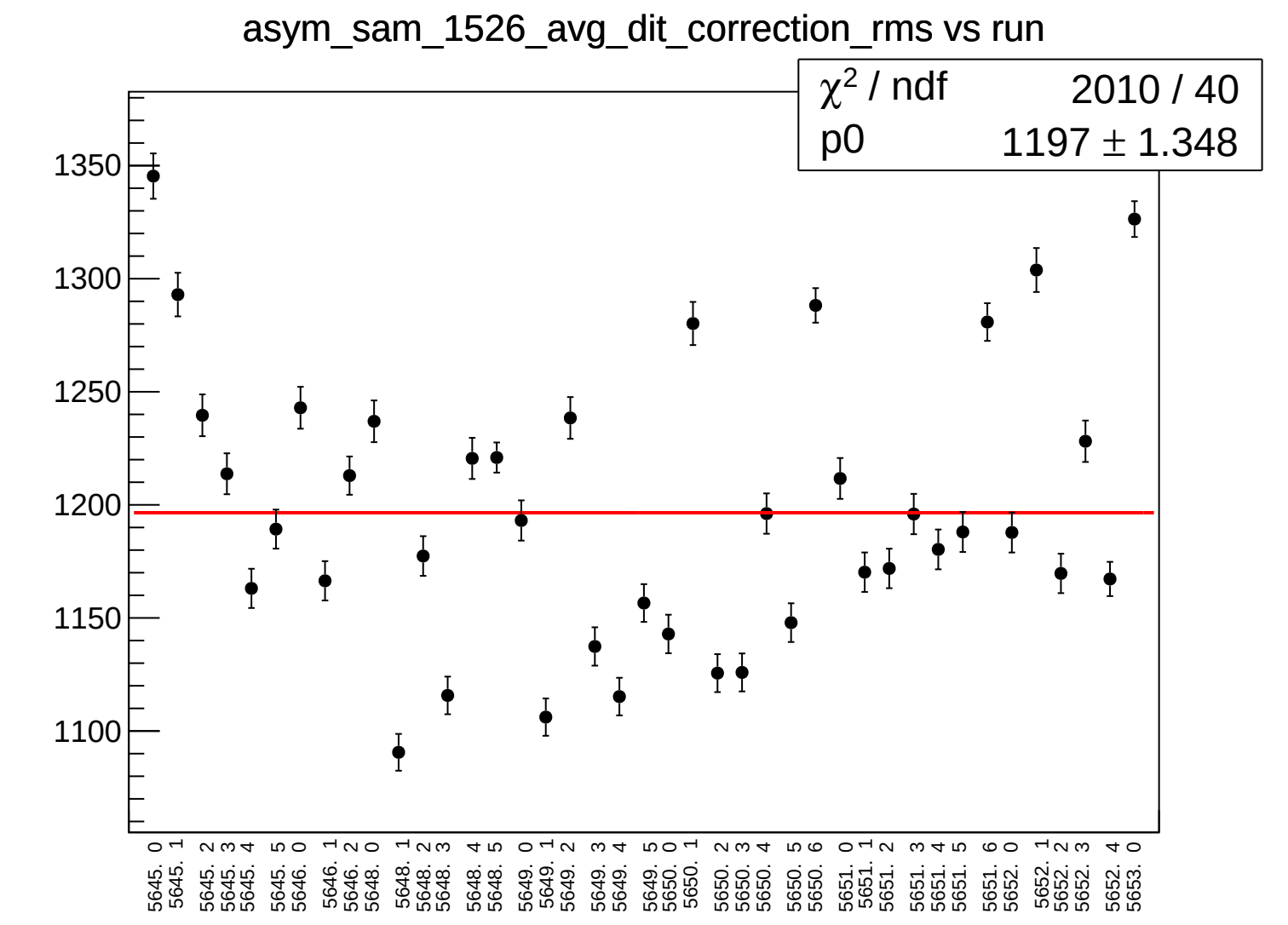

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 36.9 / 40
p0 72.63 ± 237.4
pull
Entries 41
Mean −483.9
Std Dev 0

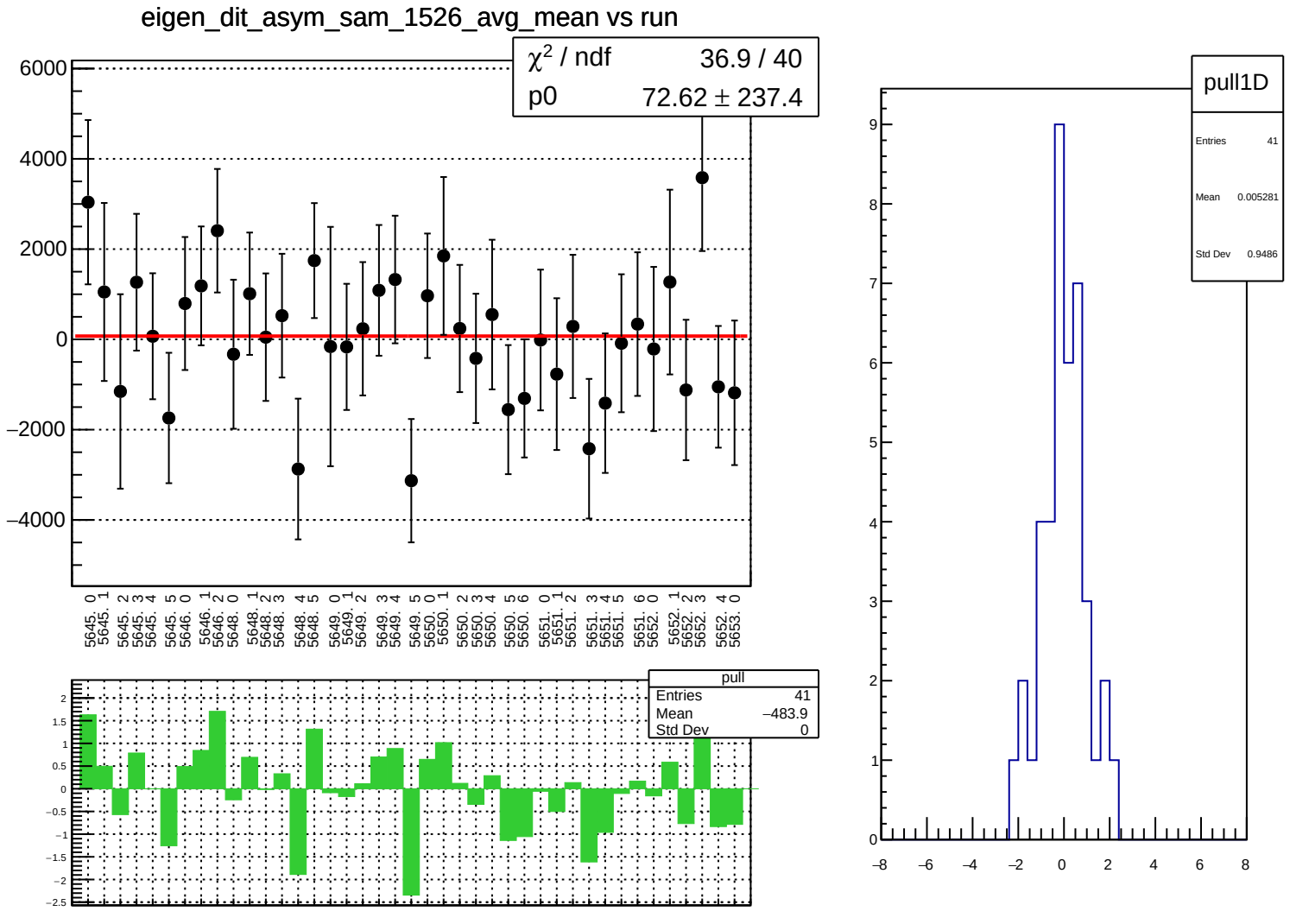

pull1D
Entries 41
Mean 0.005281
Std Dev 0.9486

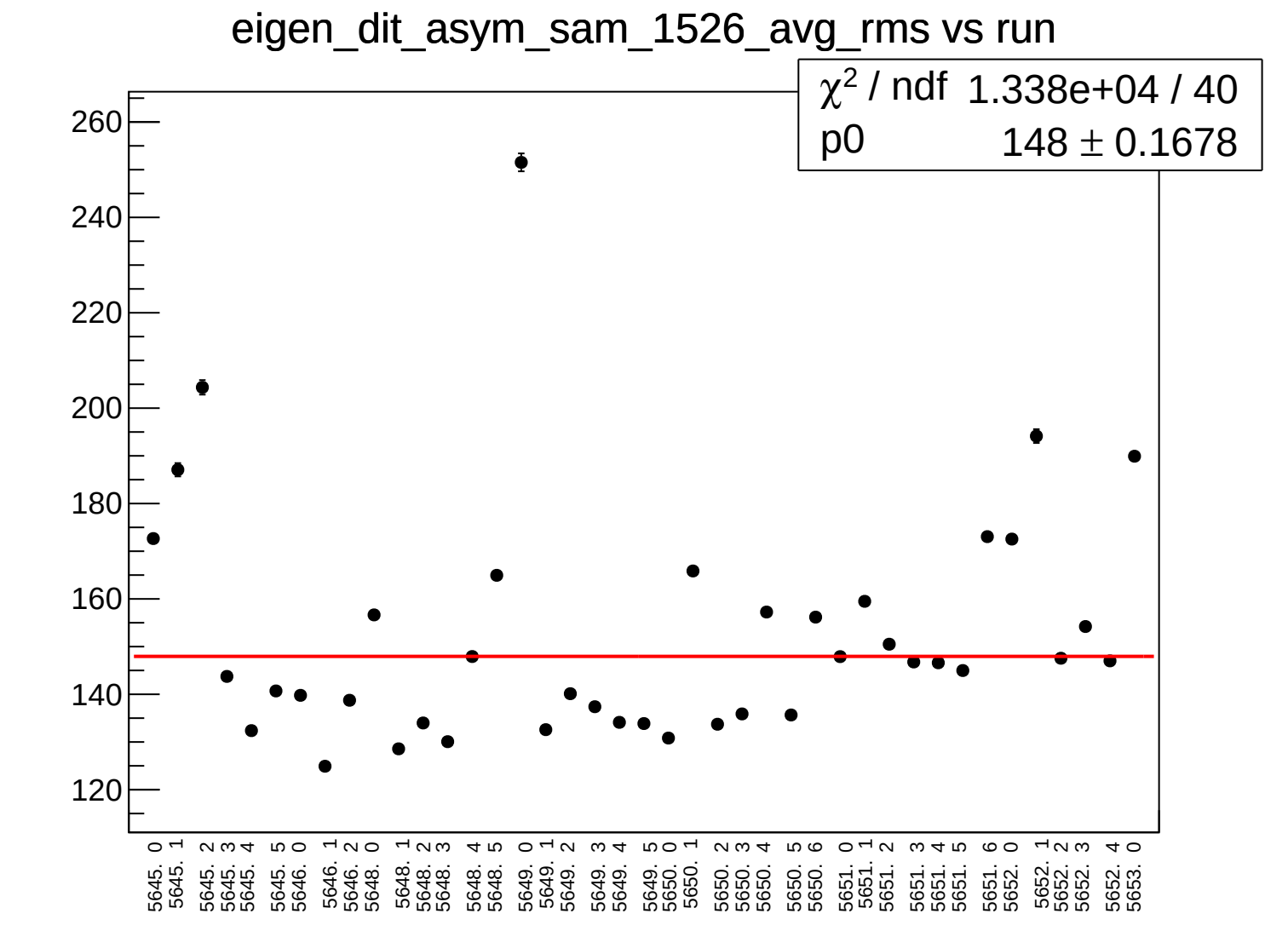

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.338e+04 / 40
p0 148 ± 0.1678
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 29.25 / 40
p0 1272 ± 1906
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −15.37
Std Dev 44.72
2
1.5
1
0.5
0
−0.5
−1
−1.5

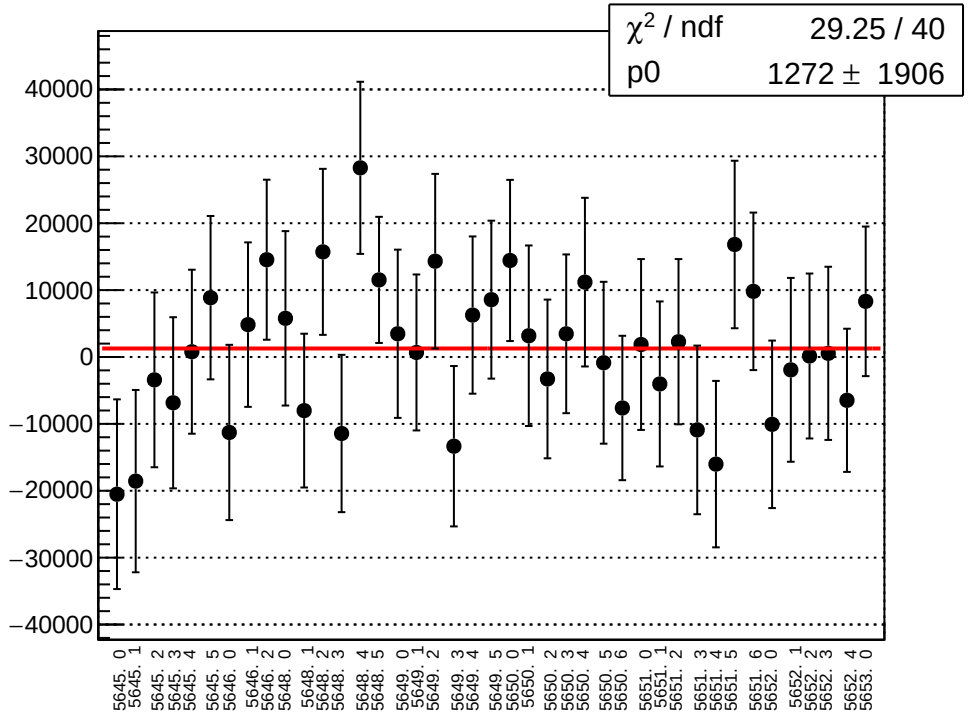

pull1D
Entries 41
Mean −0.01101
Std Dev 0.8446
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

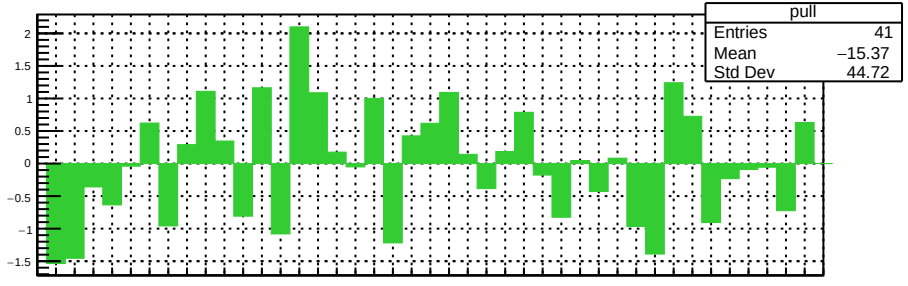

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2010 / 40
p0 1197 ± 1.348
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

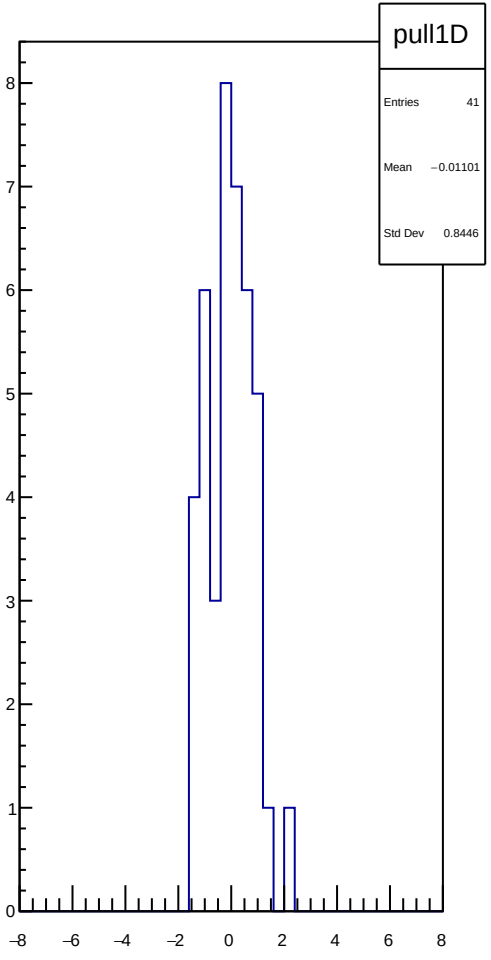

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 36.9 / 40
p0 72.62 ± 237.4
6000
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −483.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.005281
Std Dev 0.9486
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

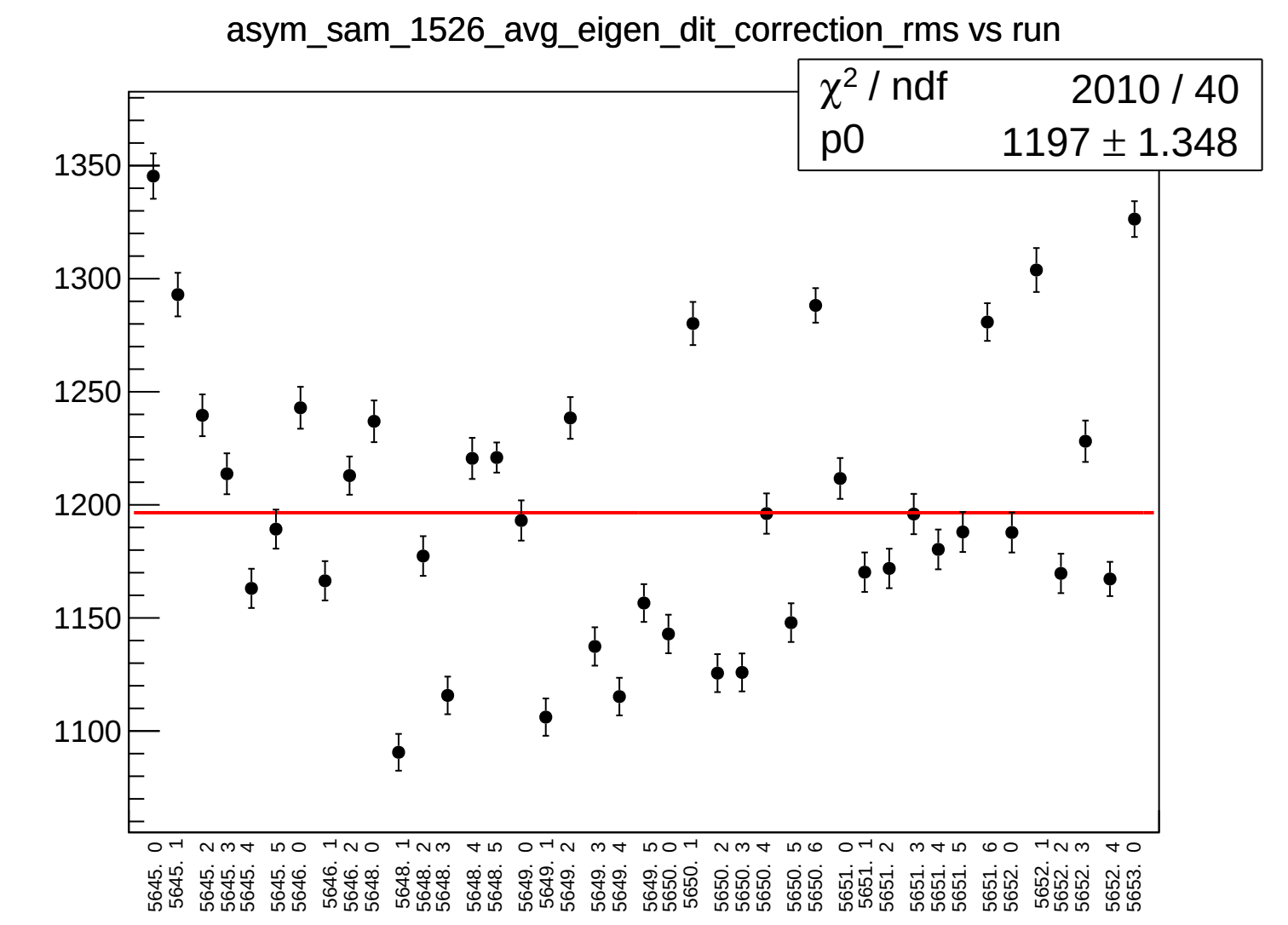

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.338e+04 / 40
p0 148 ± 0.1678
260
240
220
200
180
160
140
120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

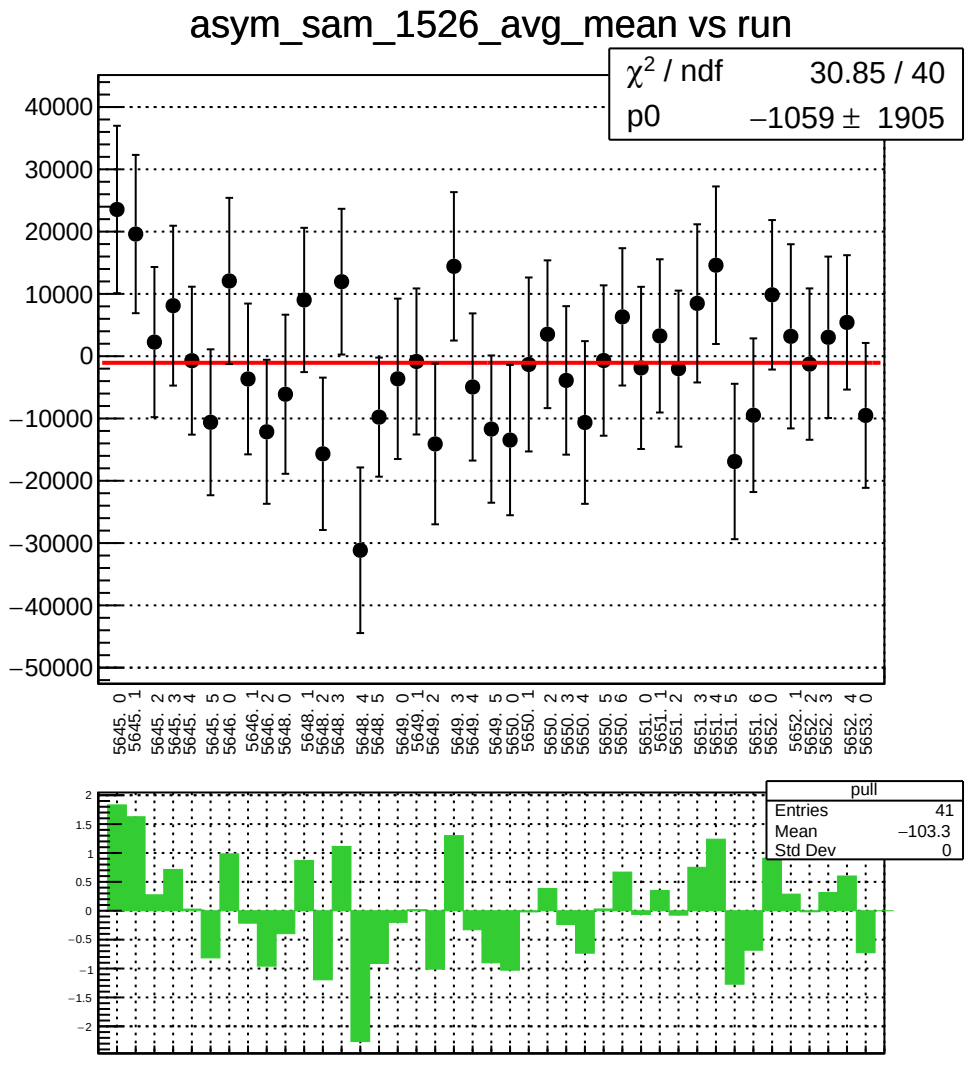
asym_sam_1526_avg_eigen_dit_correction_mean vs run

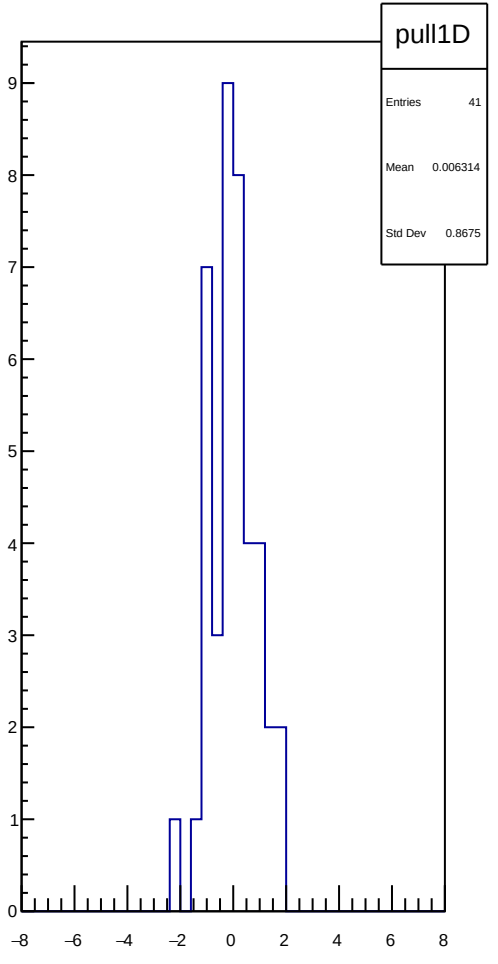


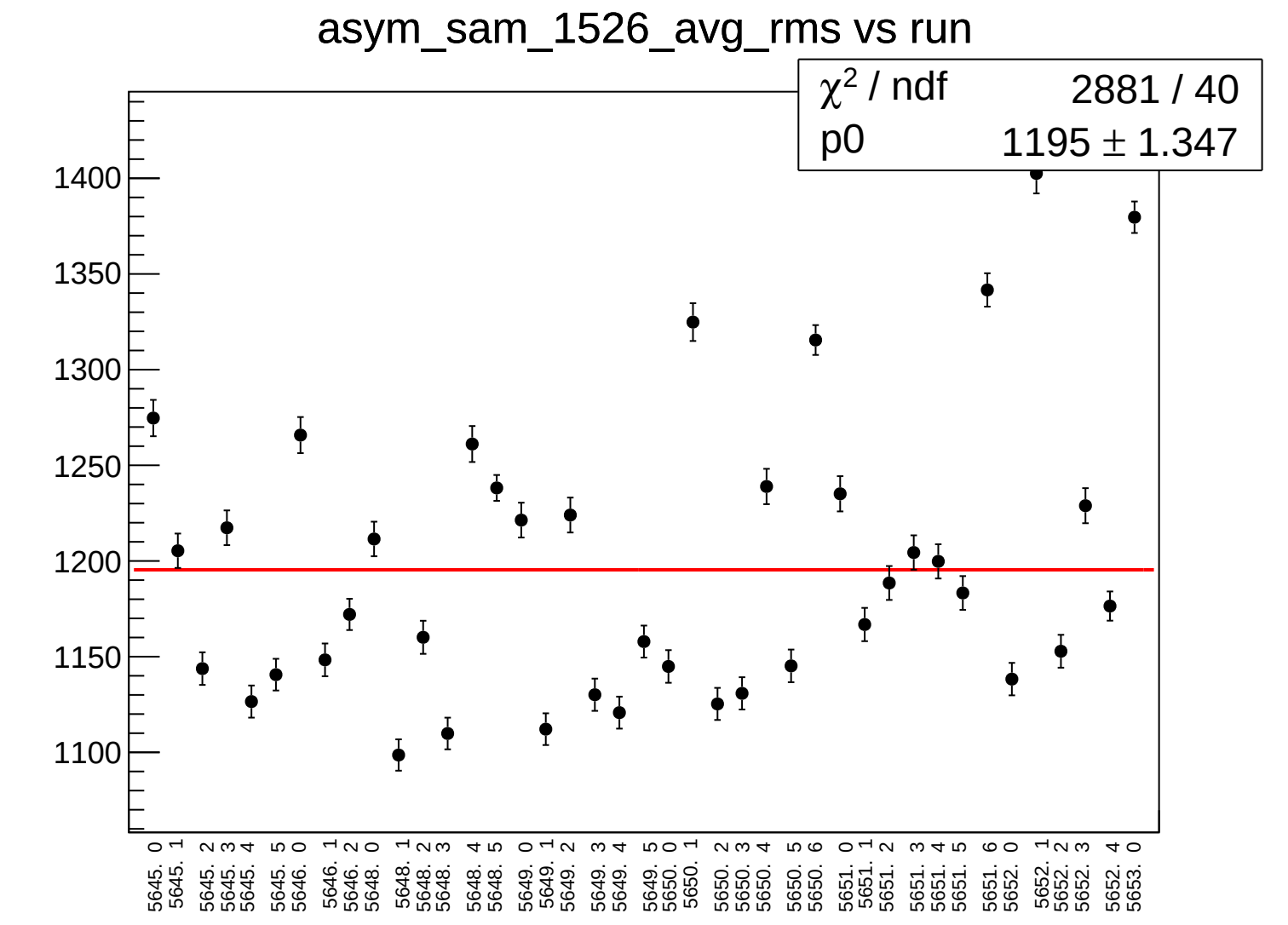


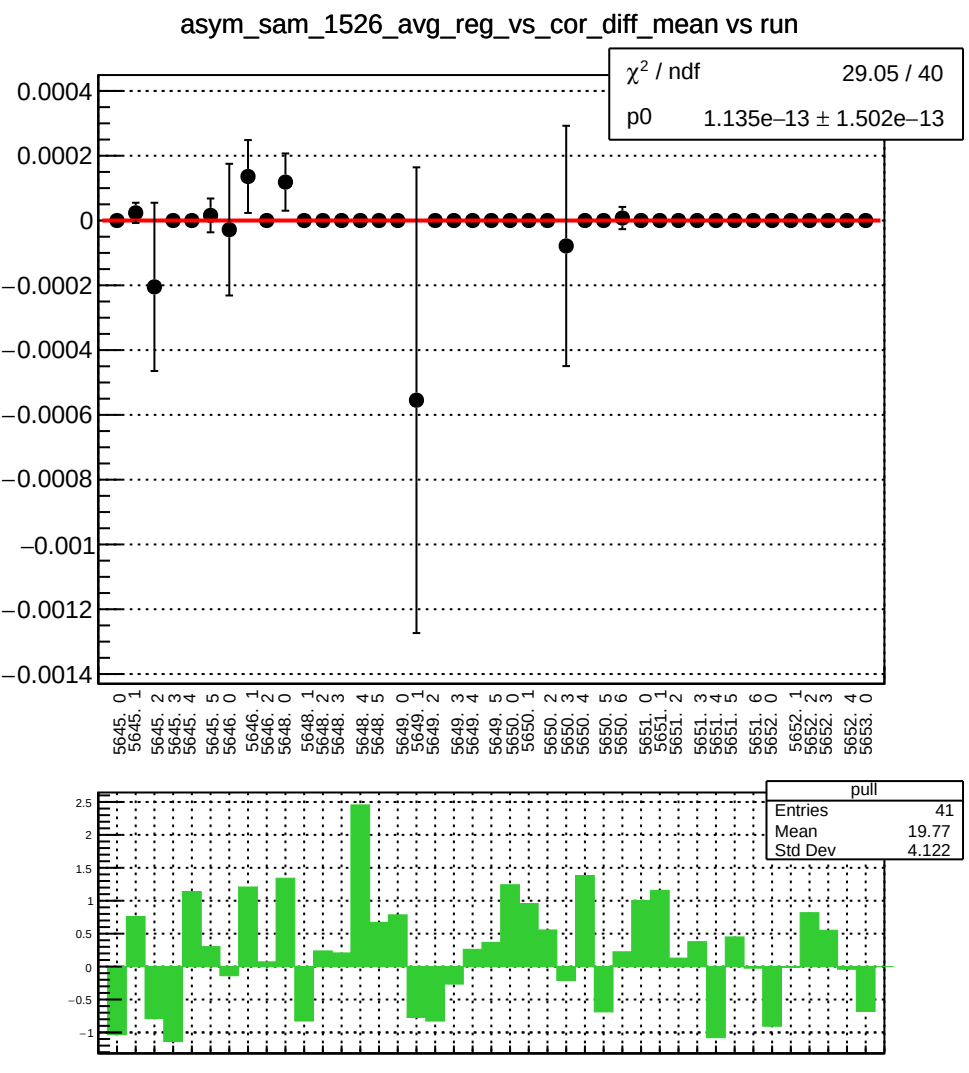


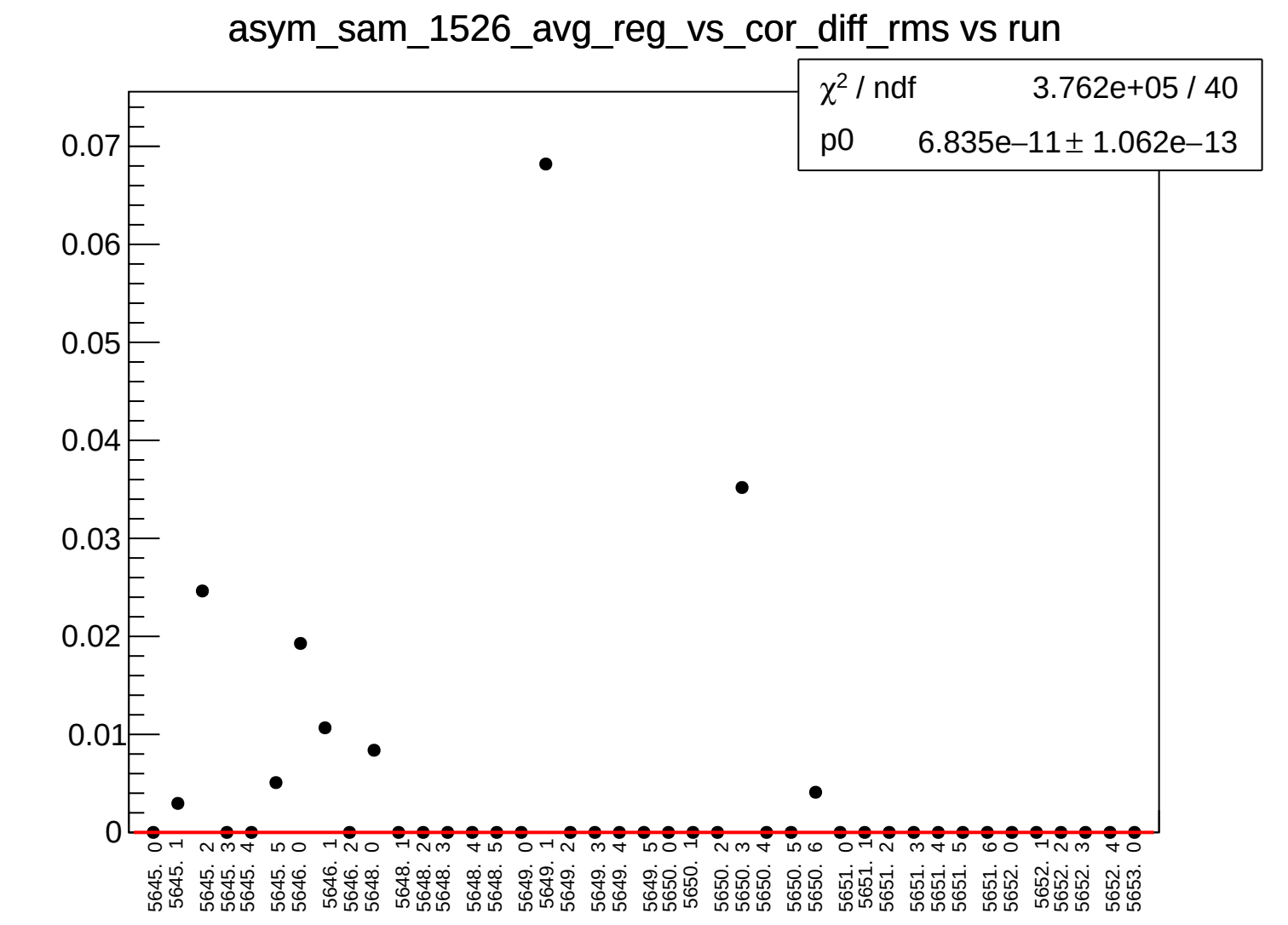

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2010 / 40
p0 1197 ± 1.348
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

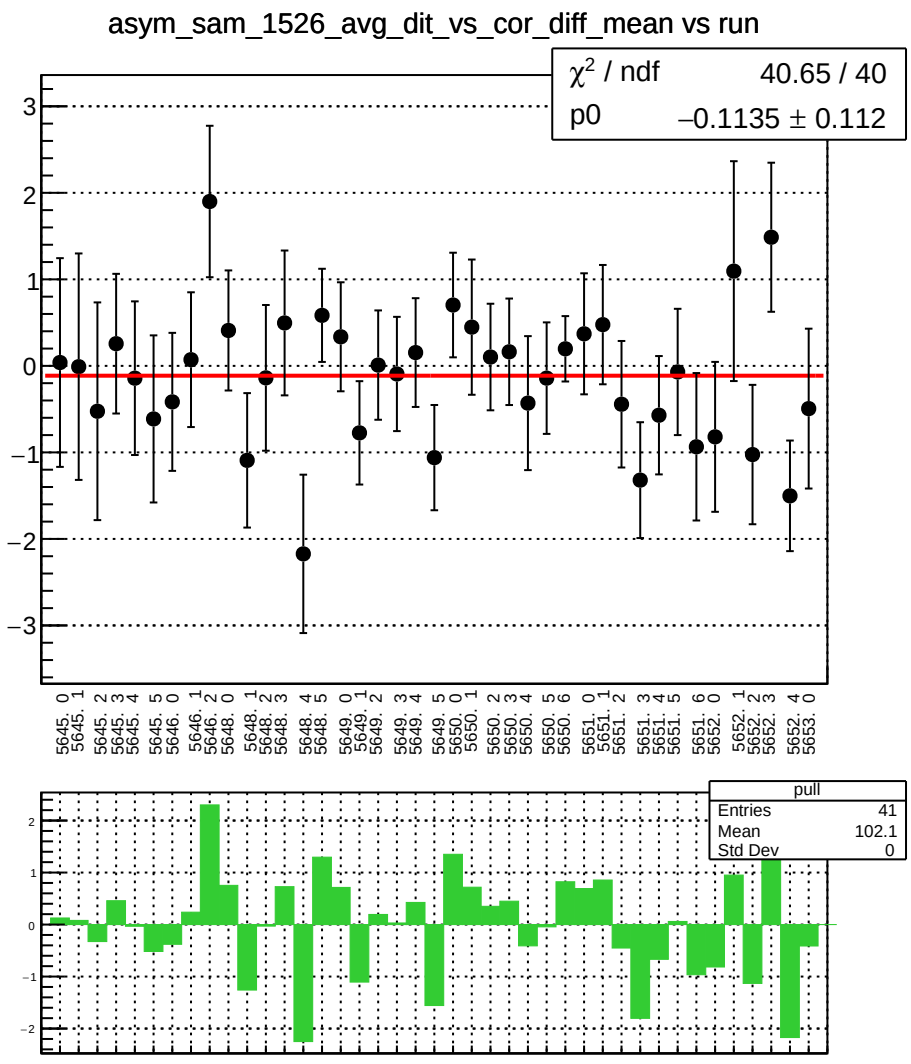

asym_sam_1526_avg_mean vs run
χ² / ndf 30.85 / 40
p0 −1059 ± 1905
pull
Entries 41
Mean −103.3
Std Dev 0

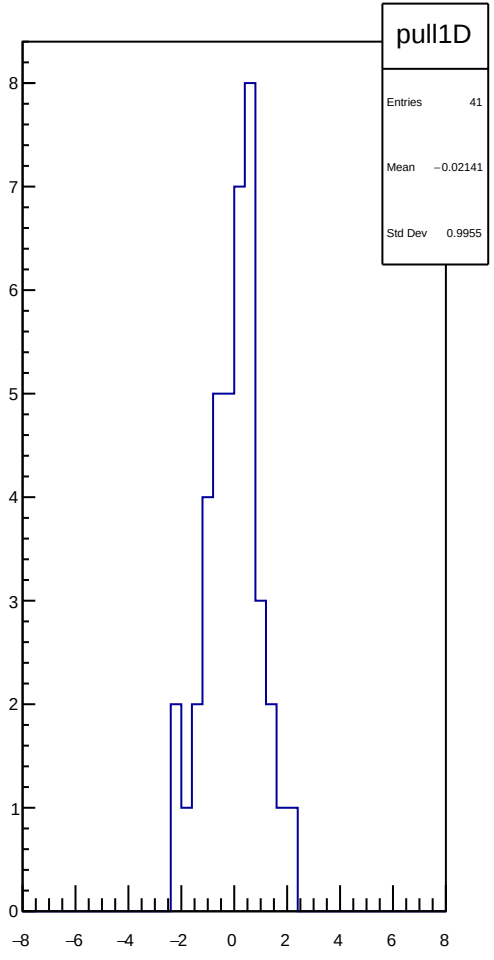

pull1D
Entries 41
Mean 0.006314
Std Dev 0.8675

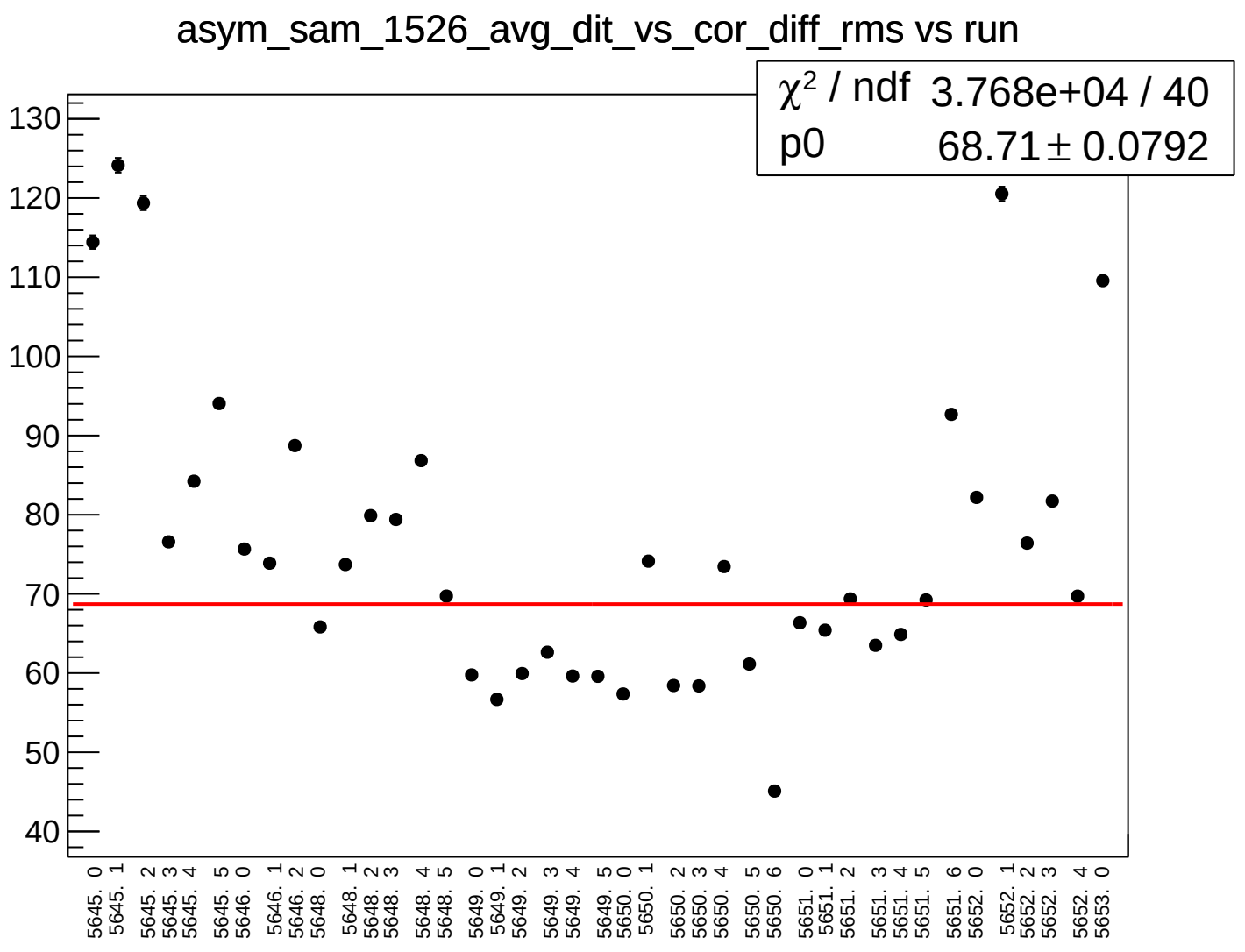

asym_sam_1526_avg_rms vs run
χ² / ndf 2881 / 40
p0 1195 ± 1.347
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

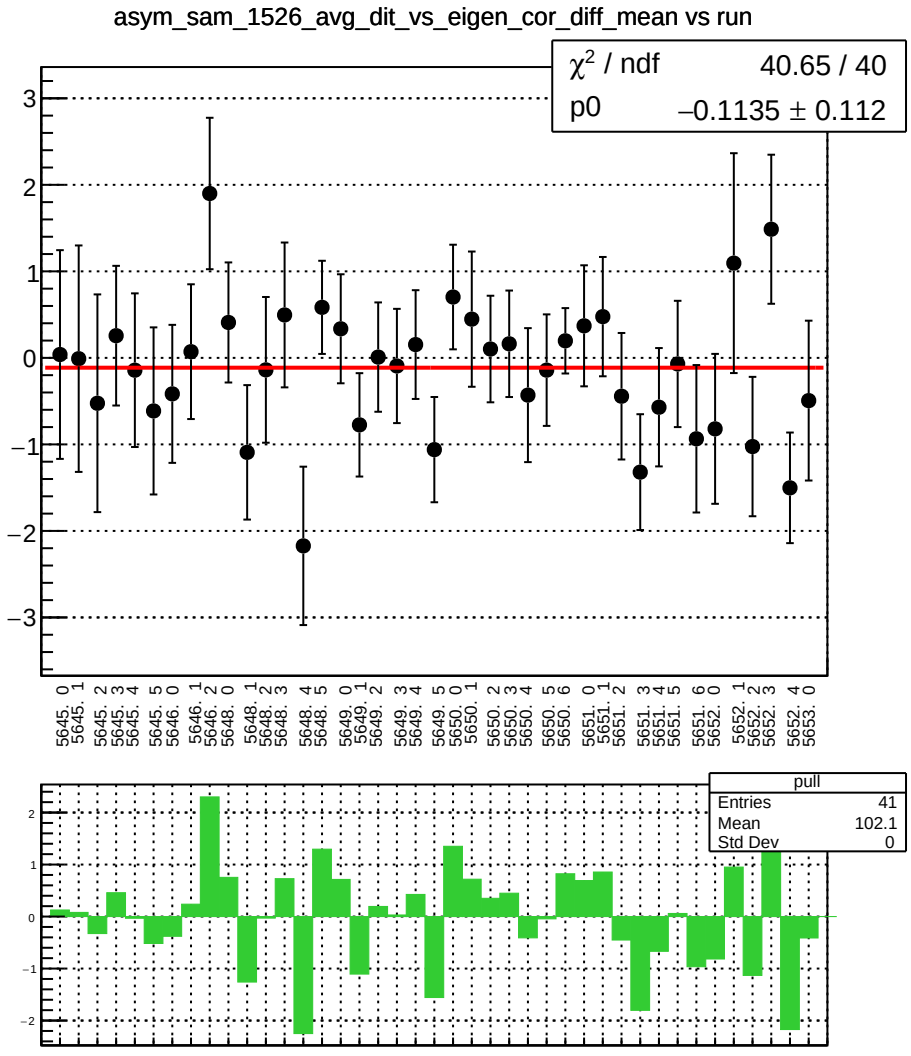

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.05 / 40
p0 1.135e−13 ± 1.502e−13
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 19.77
Std Dev 4.122
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.2253
Std Dev 0.8111
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

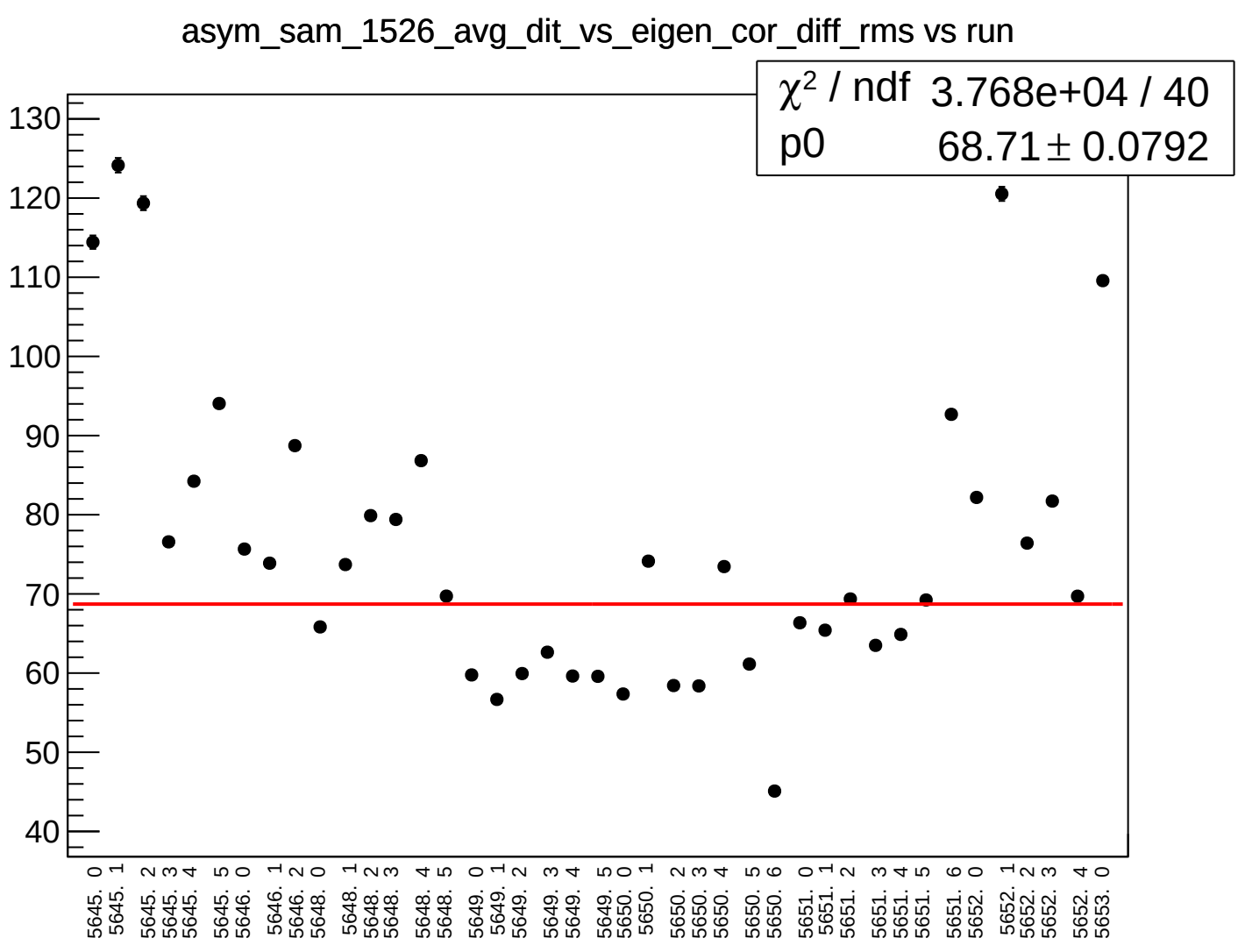

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.762e+05 / 40
p0 6.835e−11 ± 1.062e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

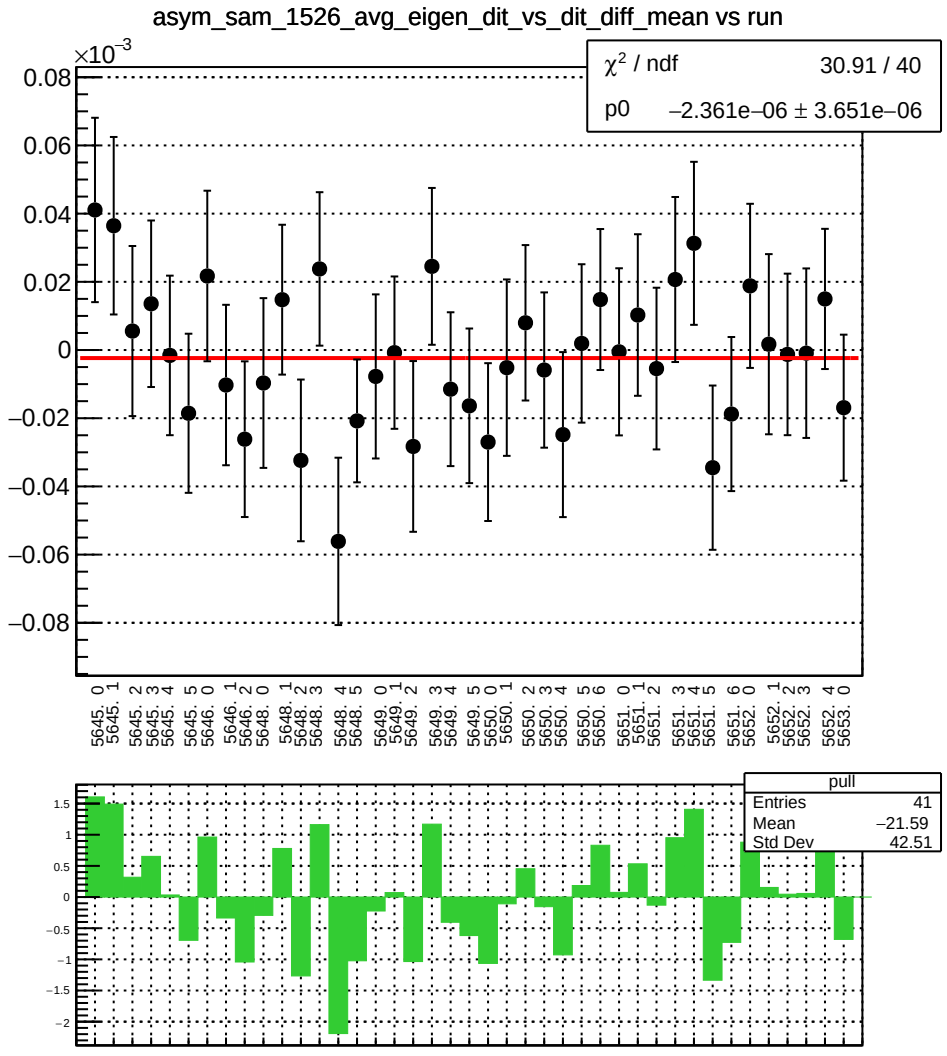

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 40.65 / 40
p0 −0.1135 ± 0.112
pull
Entries 41
Mean 102.1
Std Dev 0

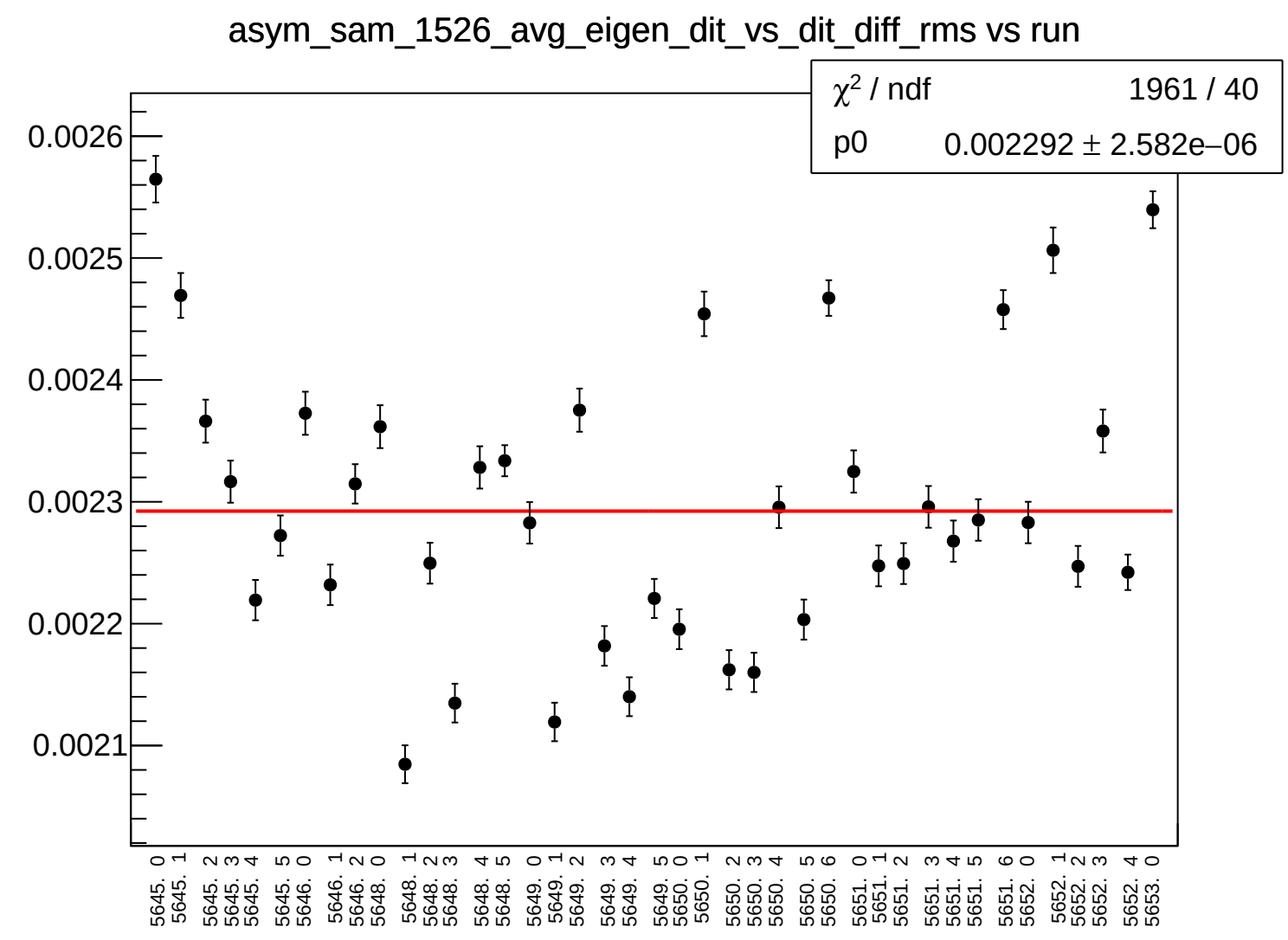

pull1D
Entries 41
Mean −0.02141
Std Dev 0.9955

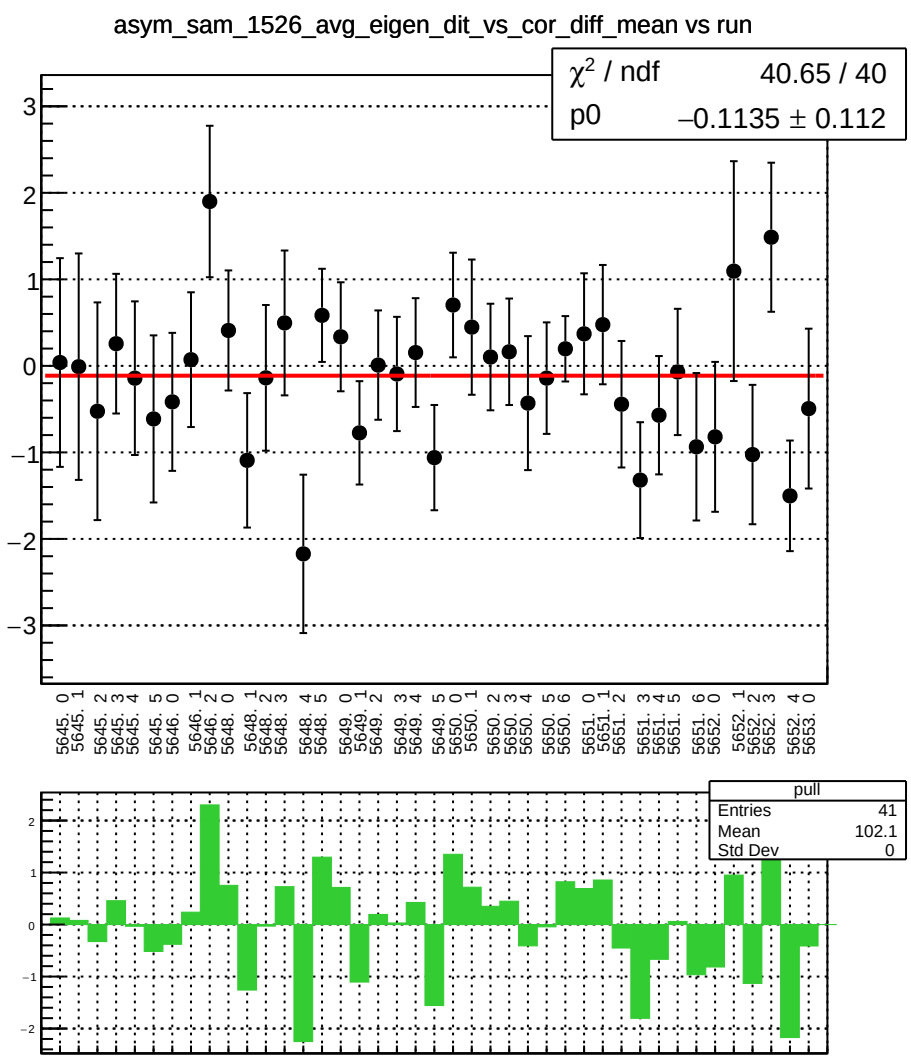

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.768e+04 / 40
p0 68.71 ± 0.0792
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

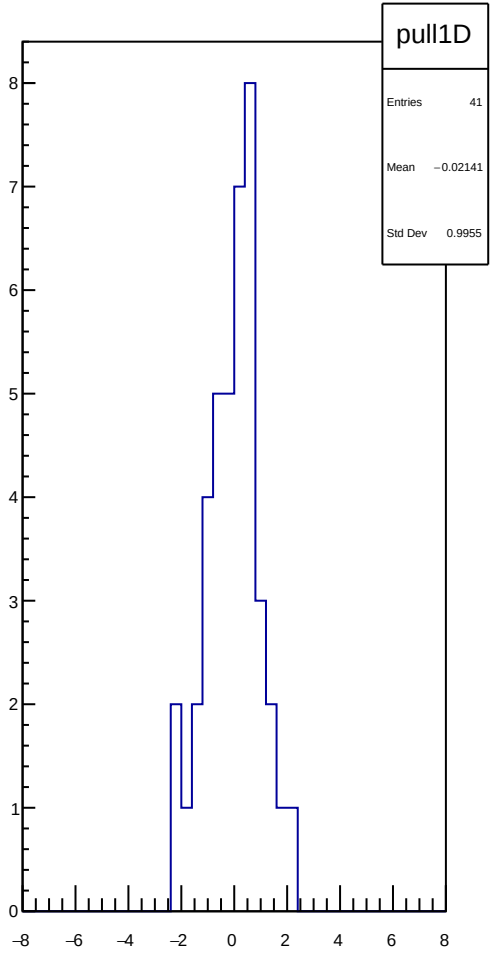

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.65 / 40
p0 −0.1135 ± 0.112
pull
Entries 41
Mean 102.1
Std Dev 0
pull1D
Entries 41
Mean −0.02141
Std Dev 0.9955

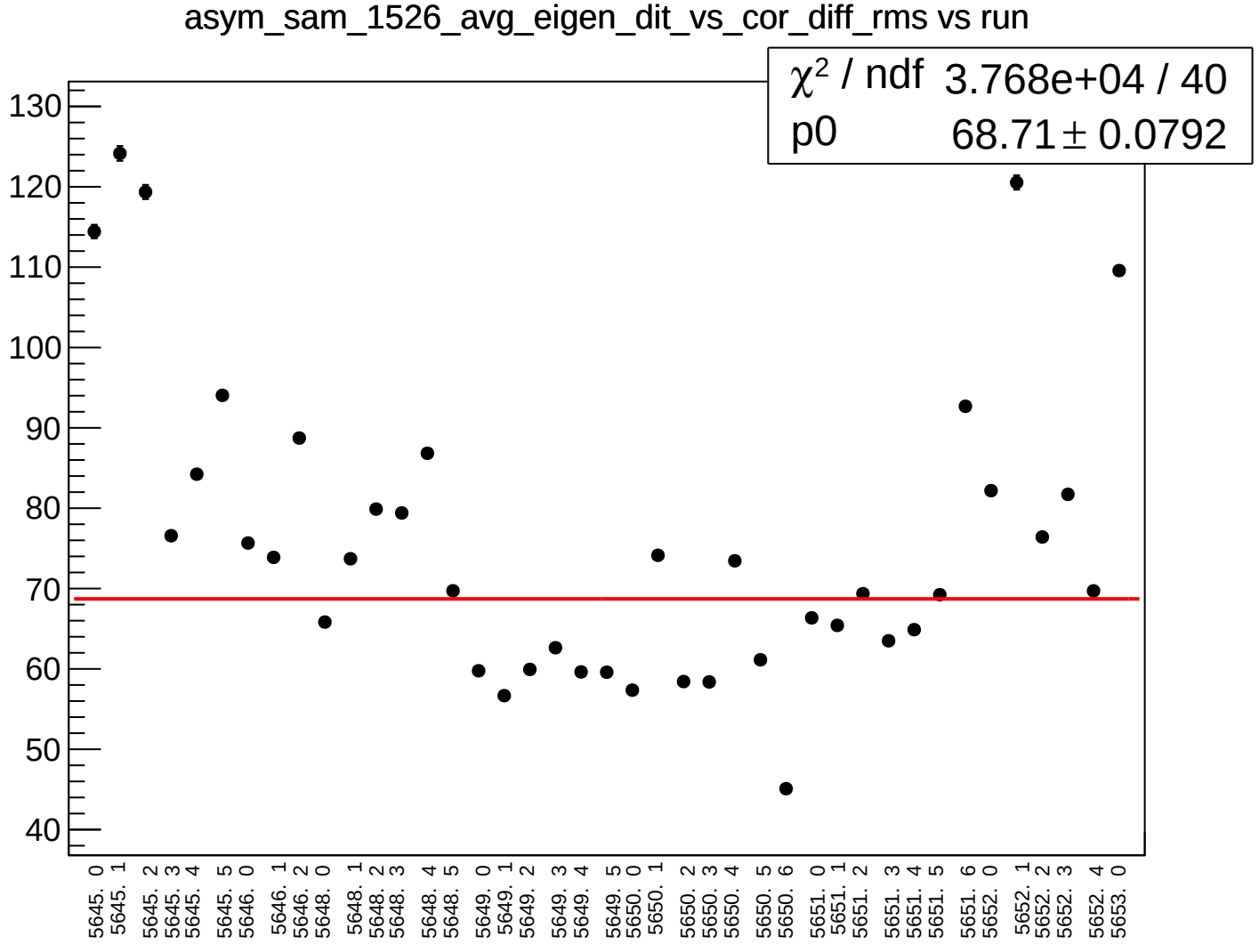

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.768e+04 / 40
p0 68.71 ± 0.0792
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

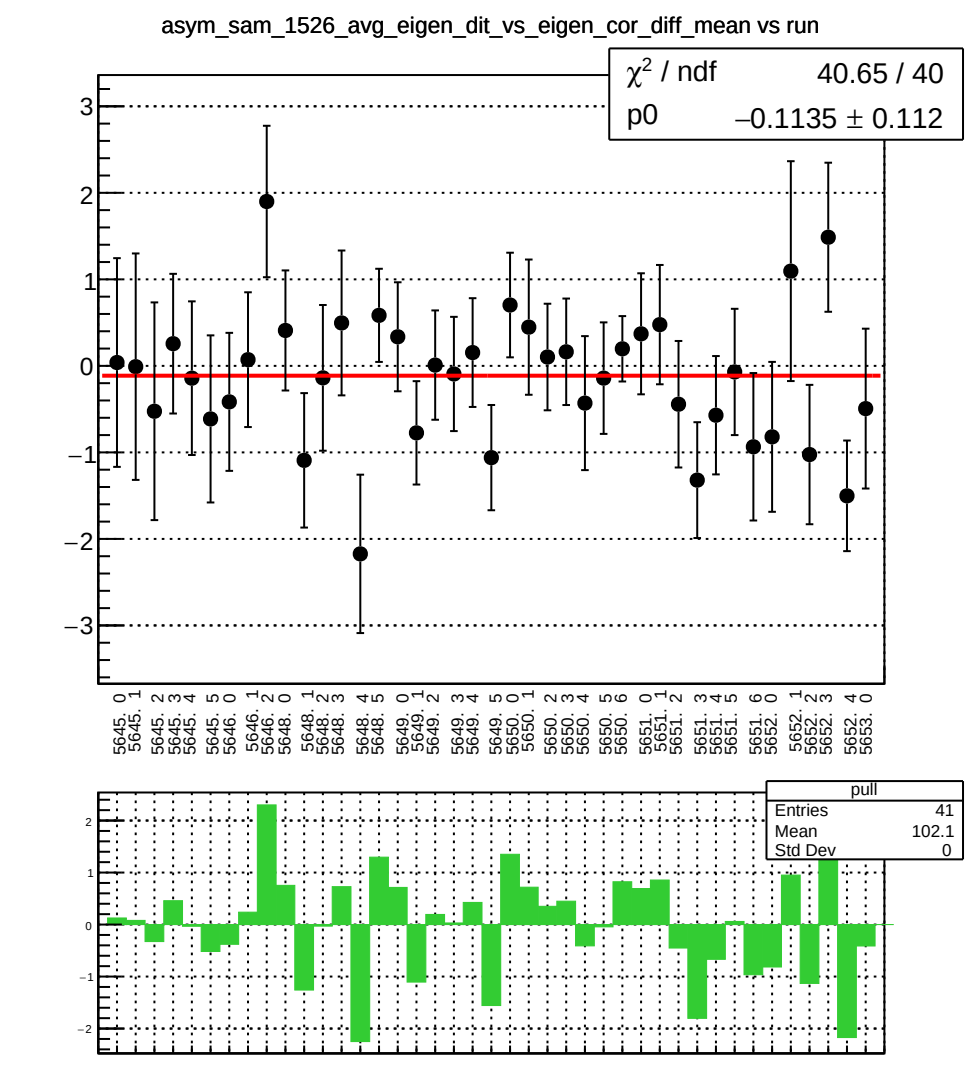

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.91 / 40
p0 −2.361e−06 ± 3.651e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −21.59
Std Dev 42.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01008
Std Dev 0.8682
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

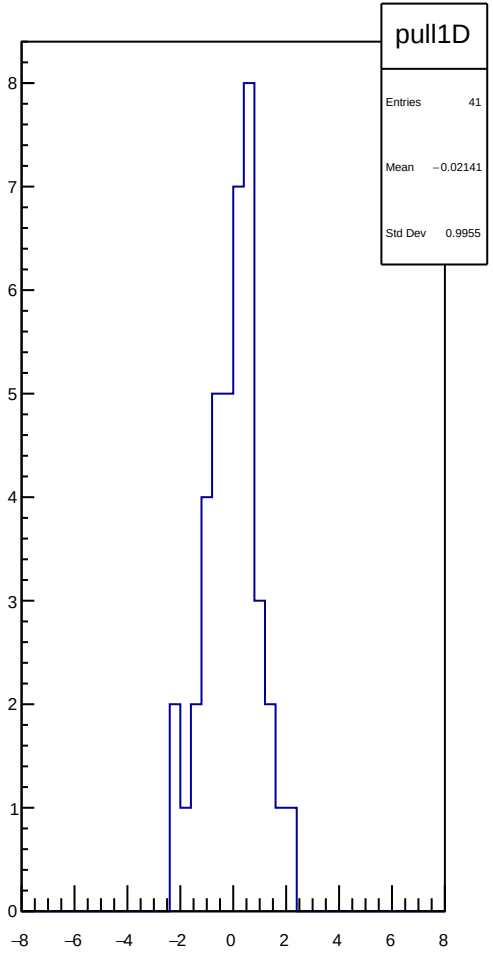

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1961 / 40
p0 0.002292 ± 2.582e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

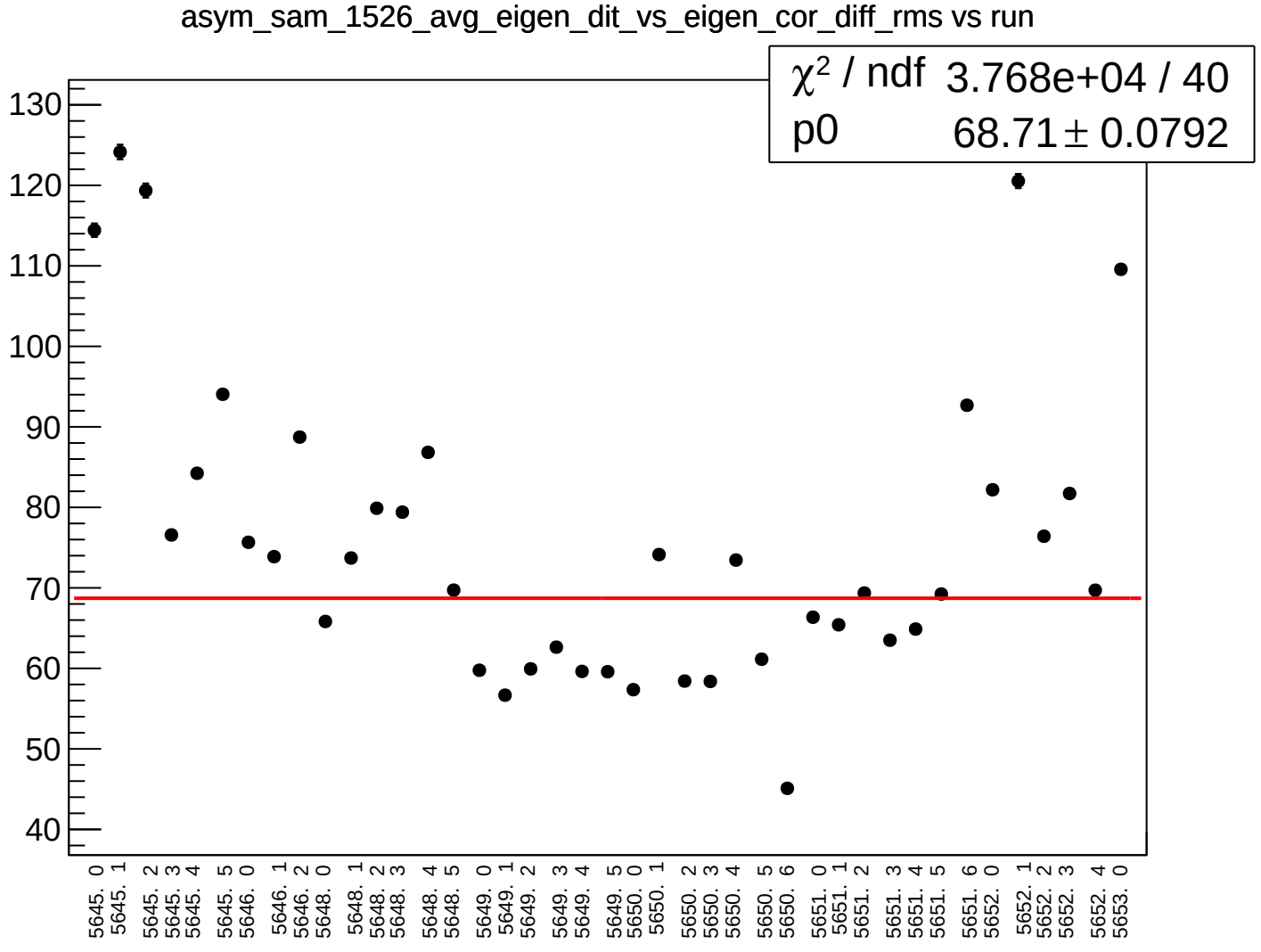

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.65 / 40
p0 −0.1135 ± 0.112
pull
Entries 41
Mean 102.1
Std Dev 0


pull1D
Entries 41
Mean −0.02141
Std Dev 0.9955


asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.768e+04 / 40
p0 68.71 ± 0.0792
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.65 / 40
p0 −0.1135 ± 0.112
pull
Entries 41
Mean 102.1
Std Dev 0


pull1D
Entries 41
Mean −0.02141
Std Dev 0.9955


asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.768e+04 / 40
p0 68.71 ± 0.0792
130
120
110
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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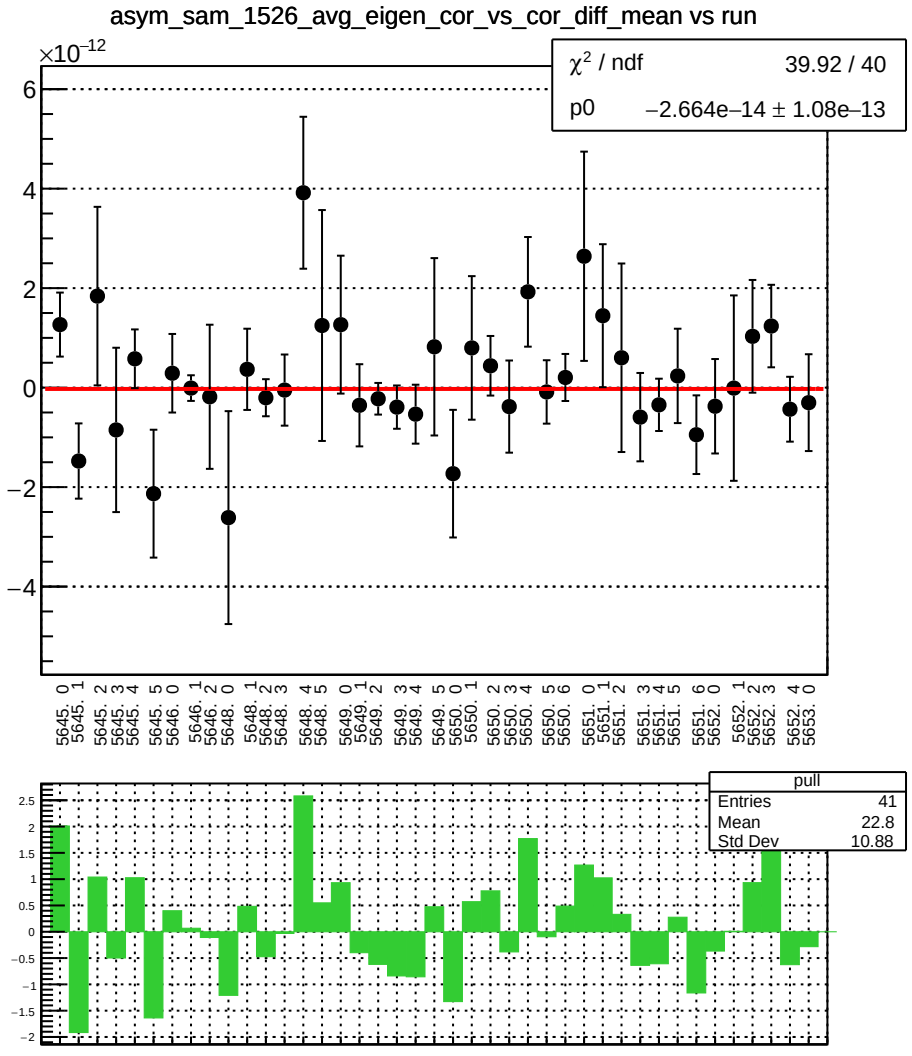
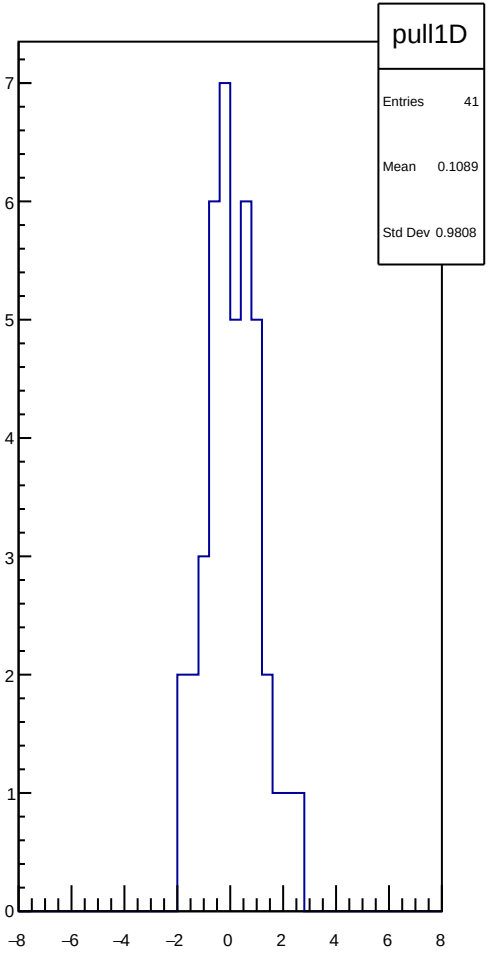
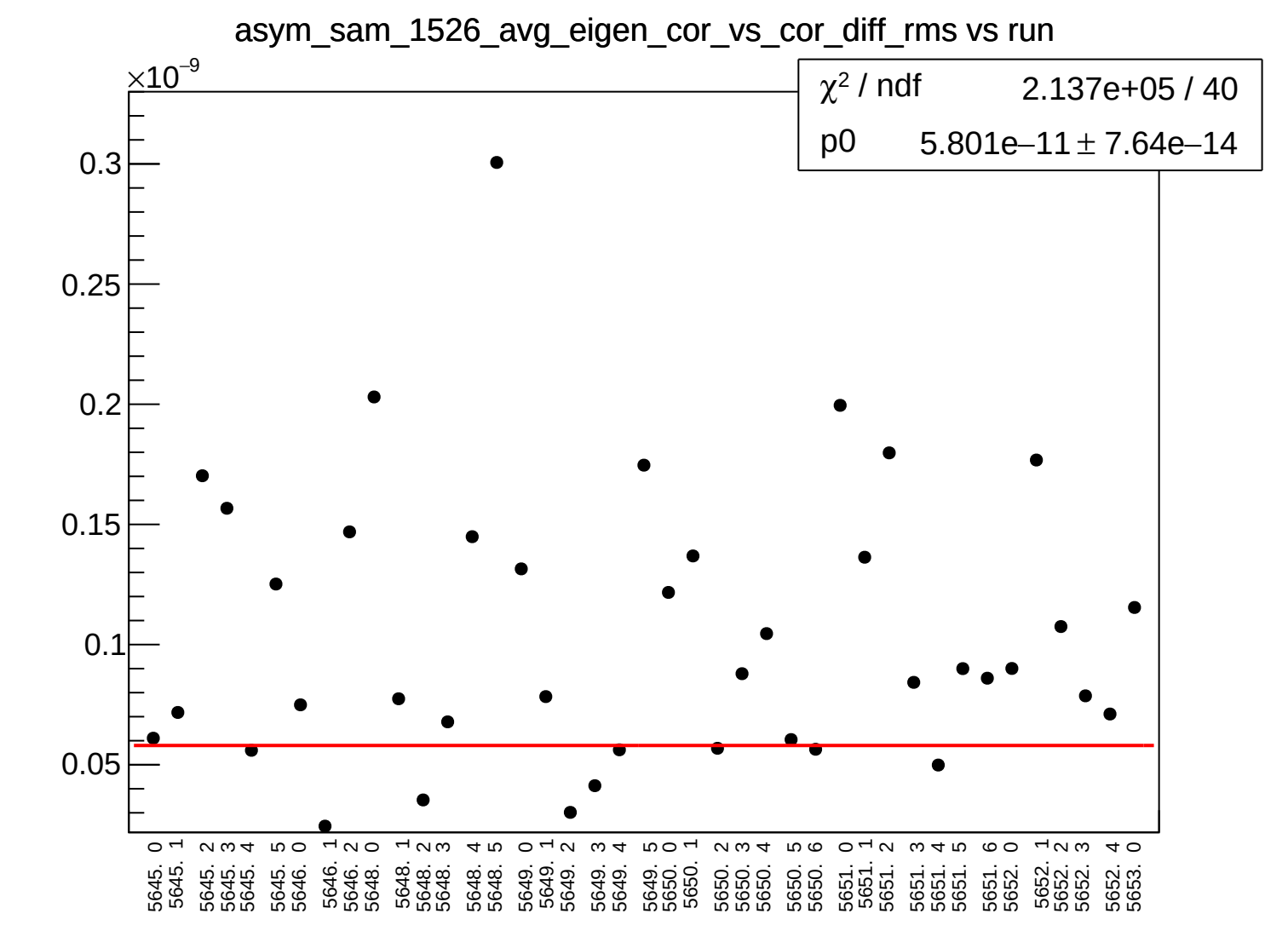
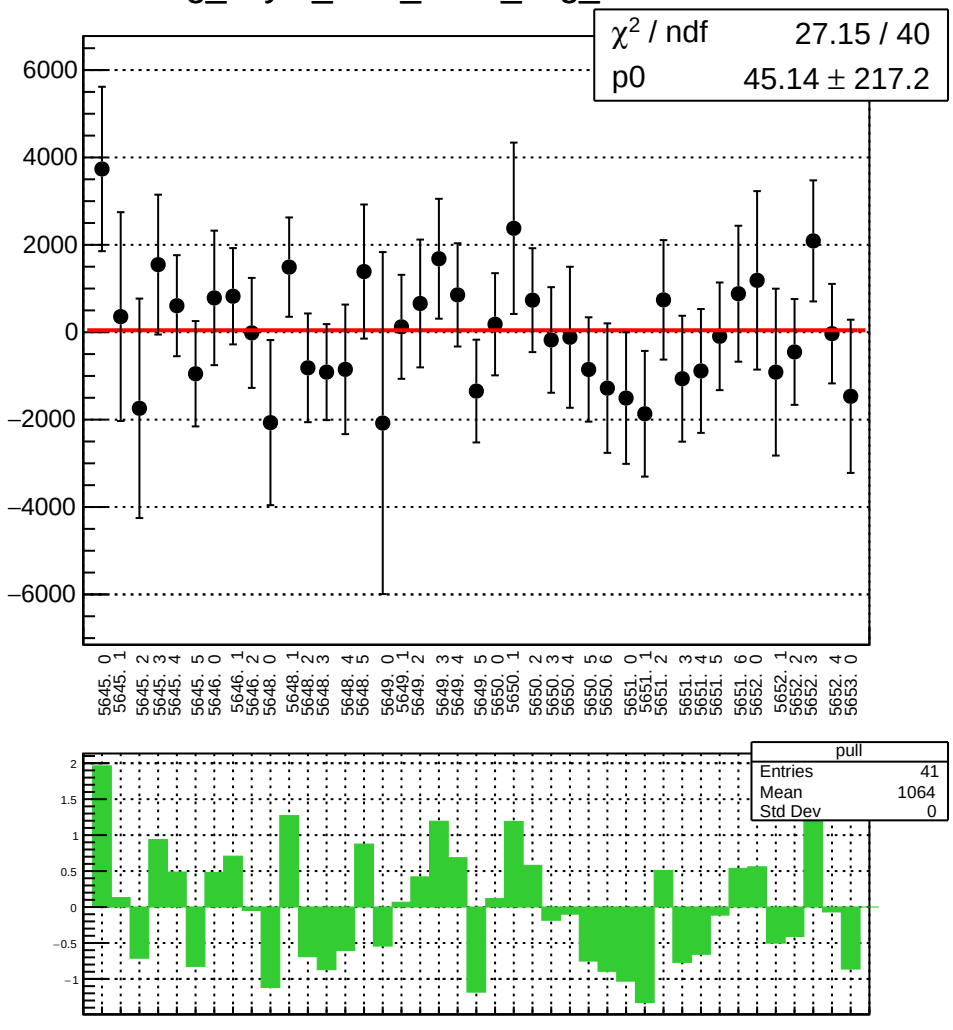
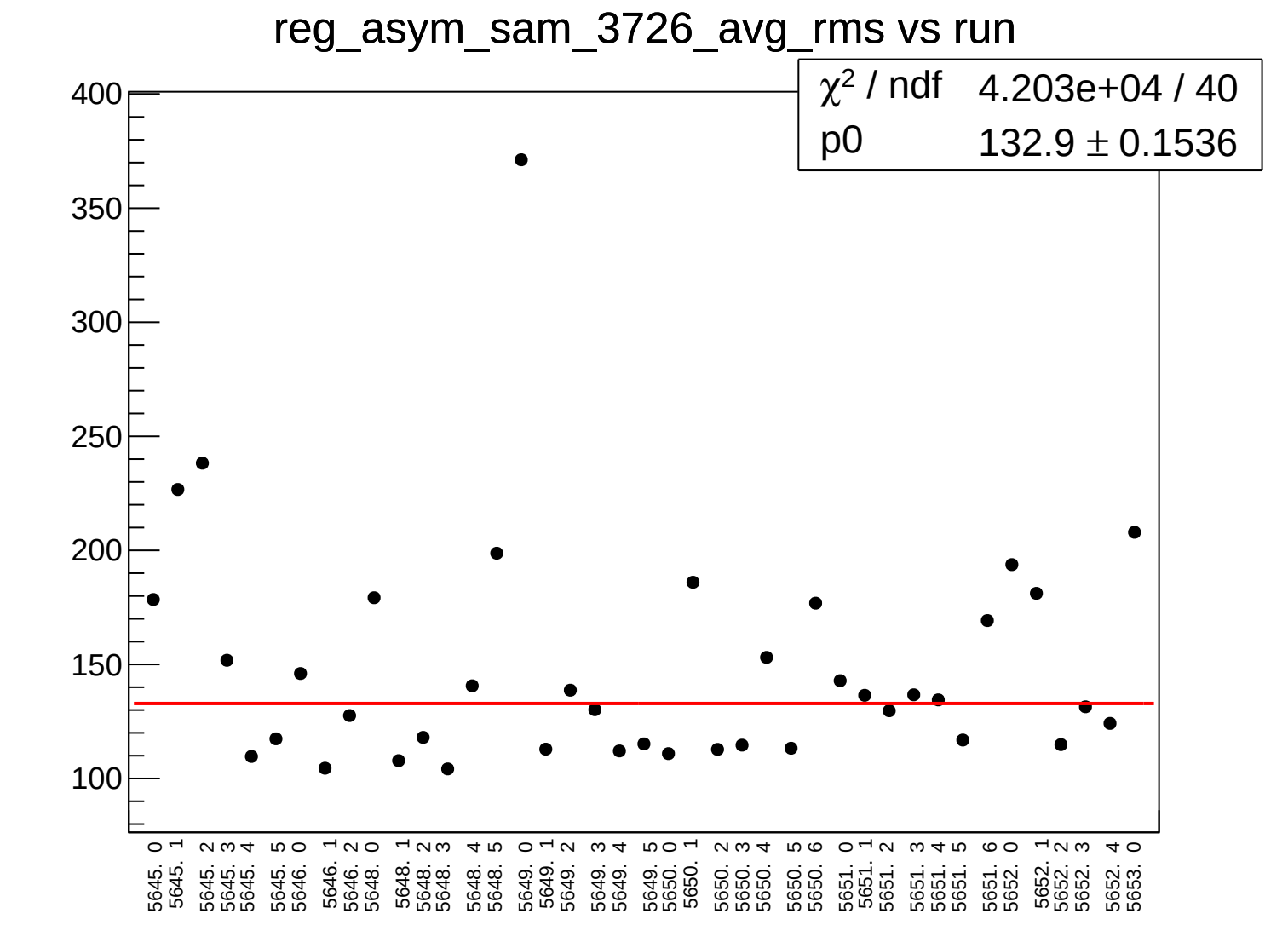
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

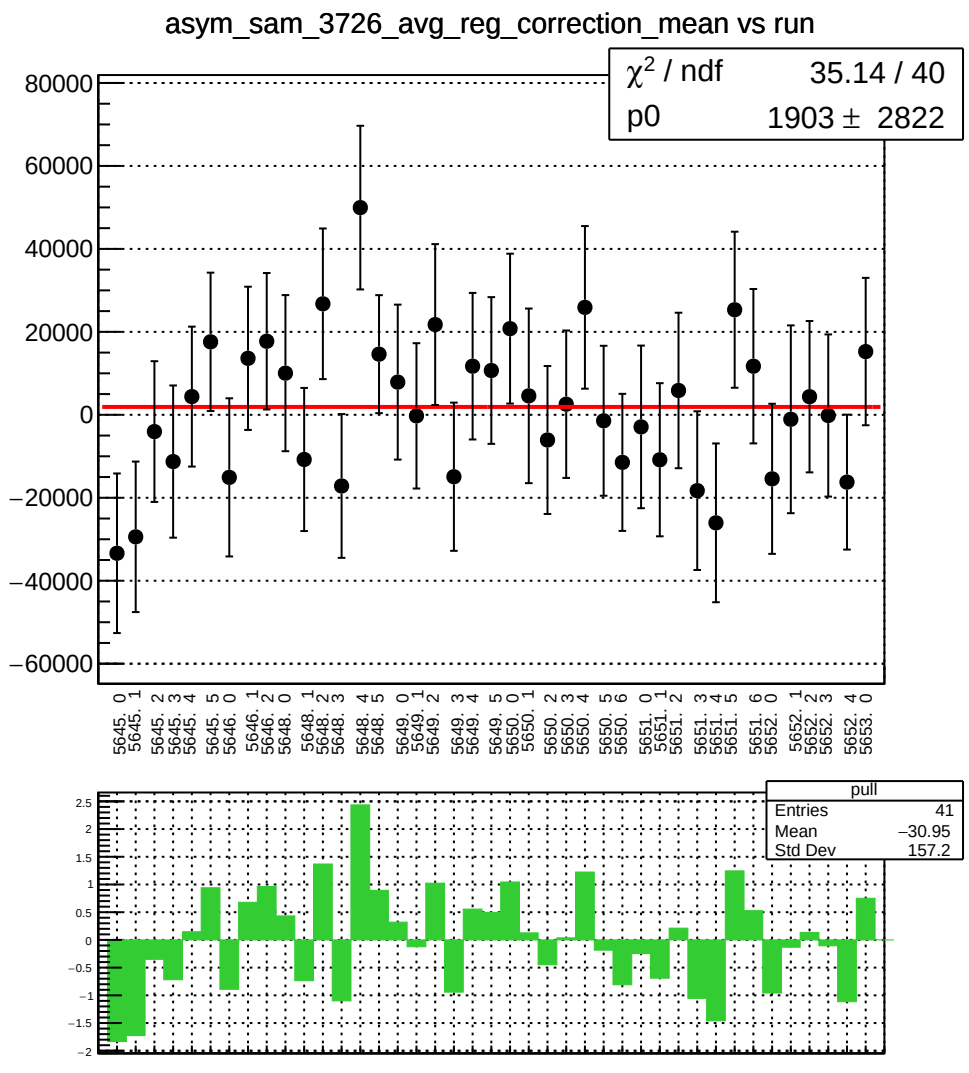

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.92 / 40
p0 −2.664e−14 ± 1.08e−13
pull
Entries 41
Mean 22.8
Std Dev 10.88

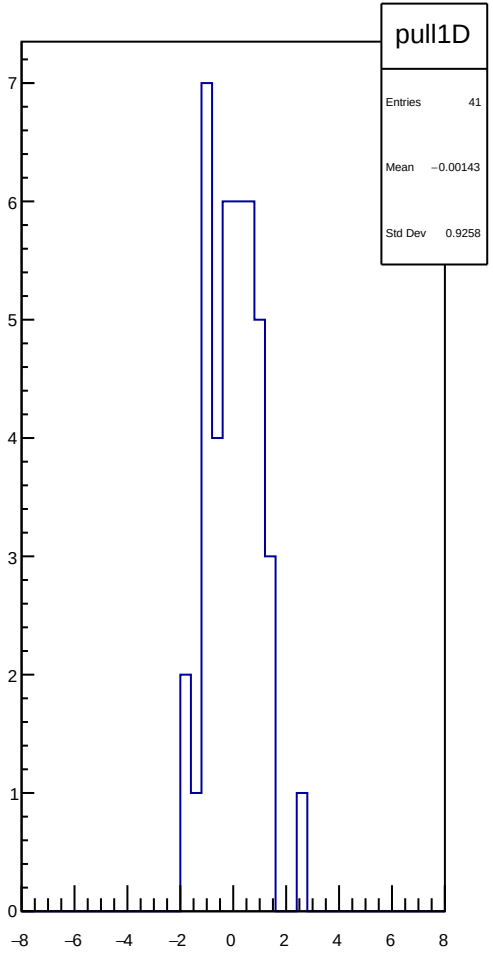

pull1D
Entries 41
Mean 0.1089
Std Dev 0.9808

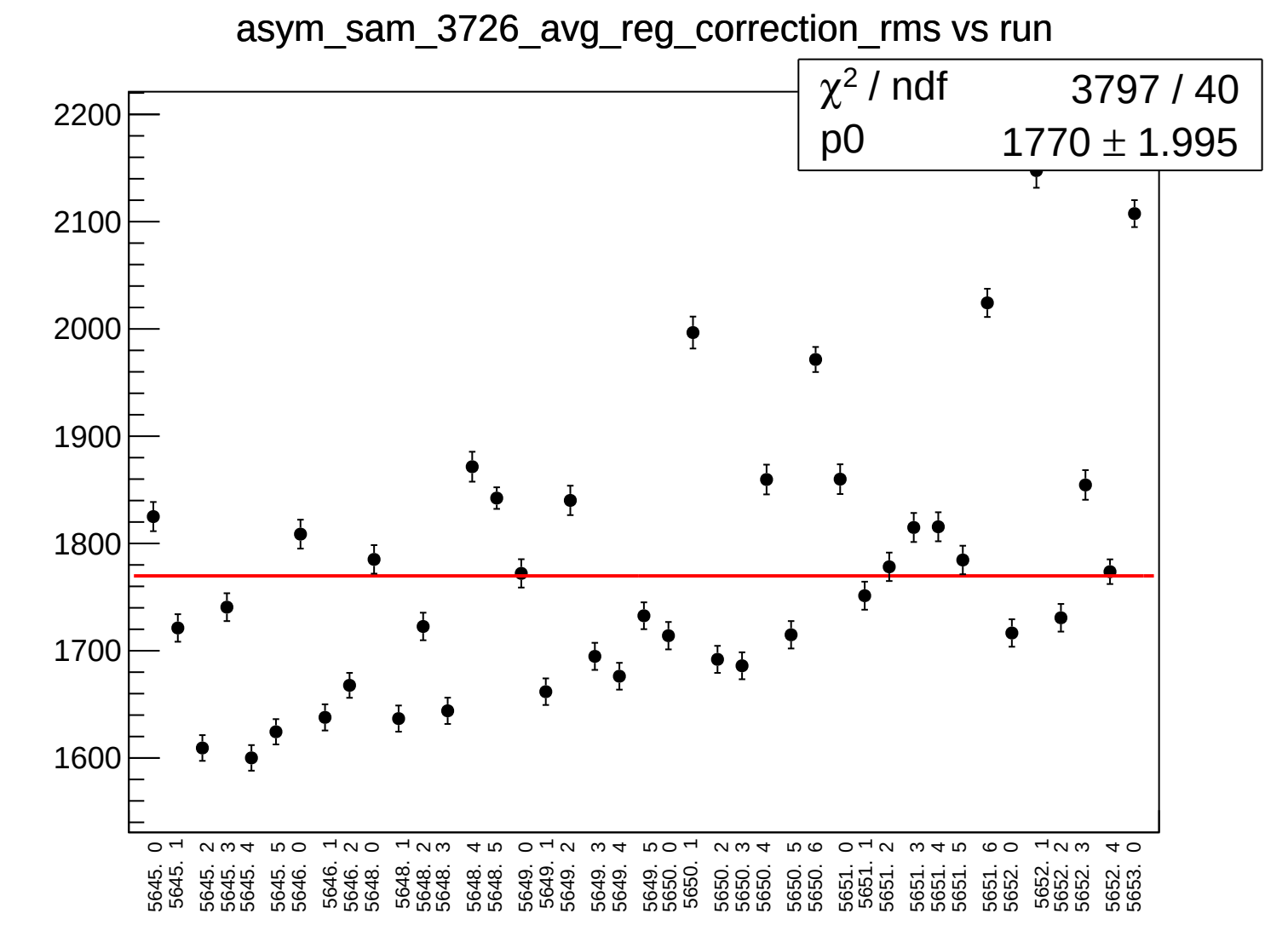

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.137e+05 / 40
p0 5.801e−11 ± 7.64e−14
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

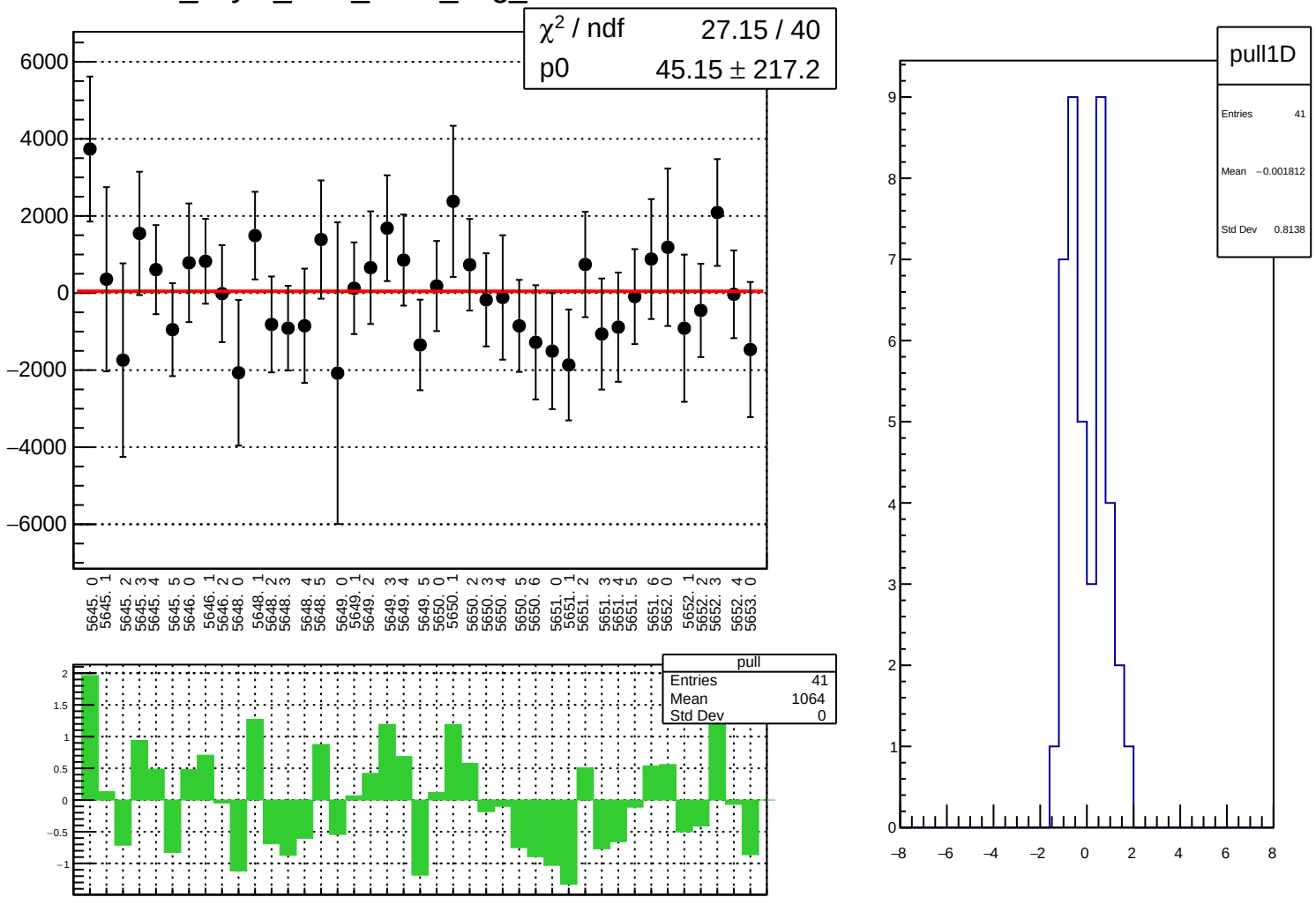

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 27.15 / 40
p0 45.14 ± 217.2
pull
Entries 41
Mean 1064
Std Dev 0
pull1D
Entries 41
Mean −0.00181
Std Dev 0.8138

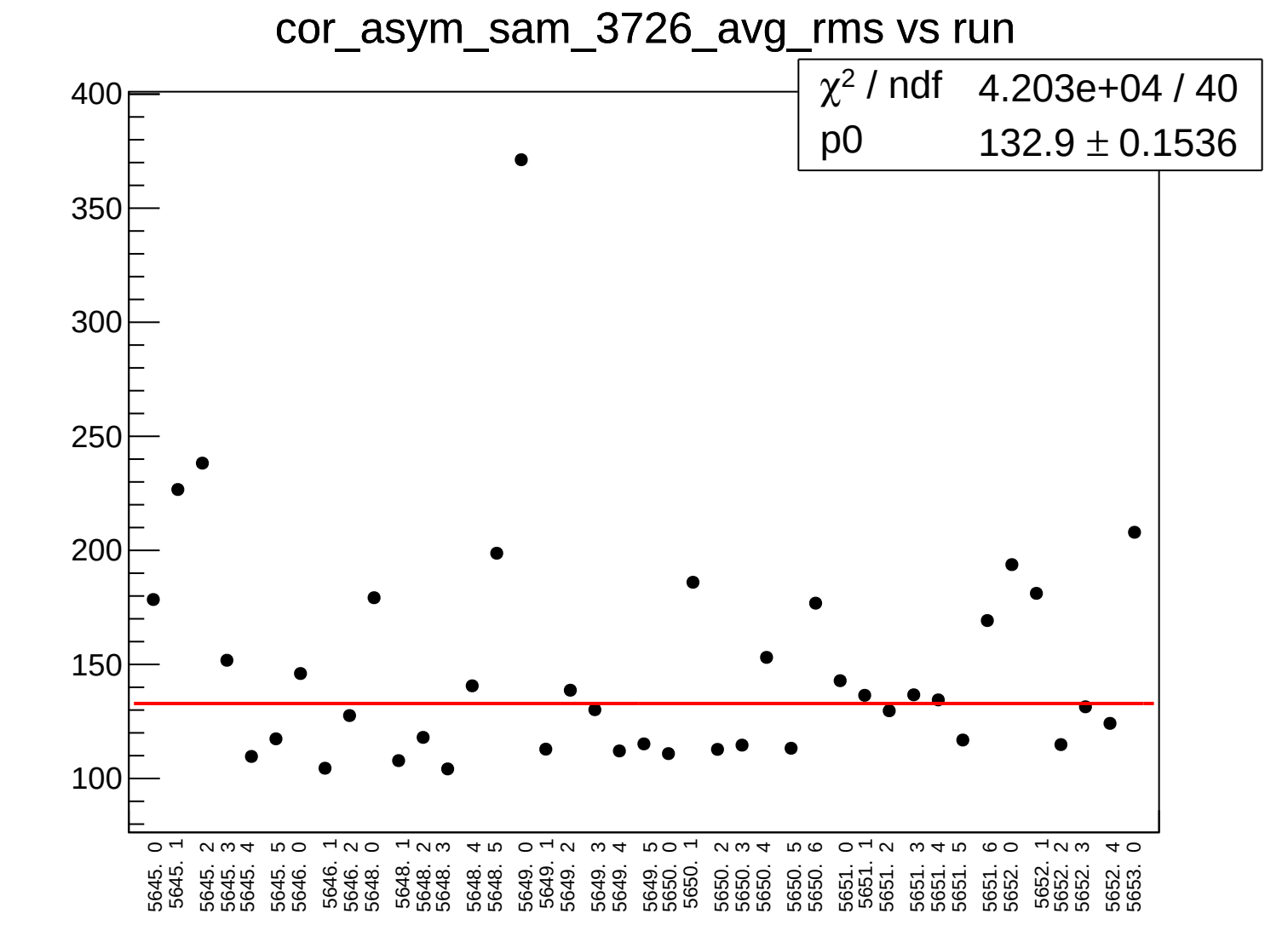

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4.203e+04 / 40
p0 132.9 ± 0.1536
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

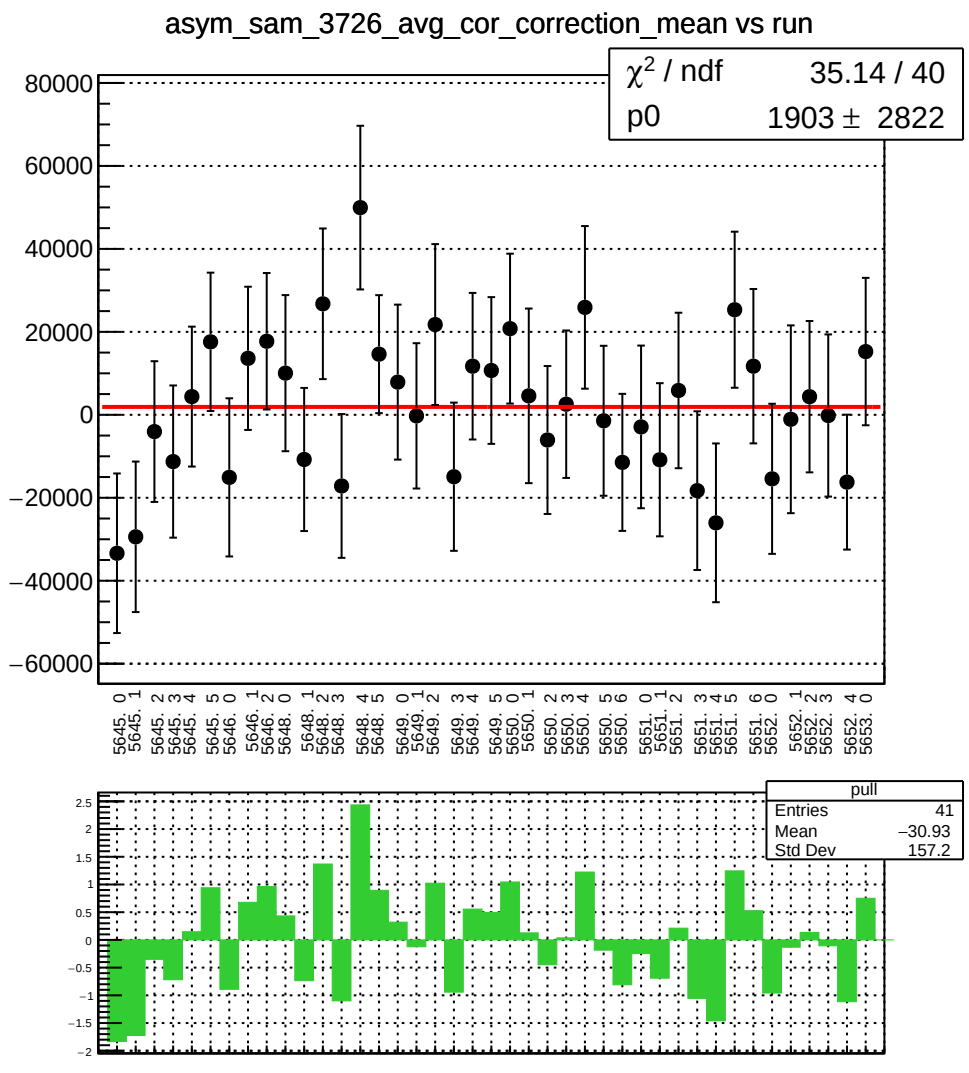

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 35.14 / 40
p0 1903 ± 2822
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −30.95
Std Dev 157.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

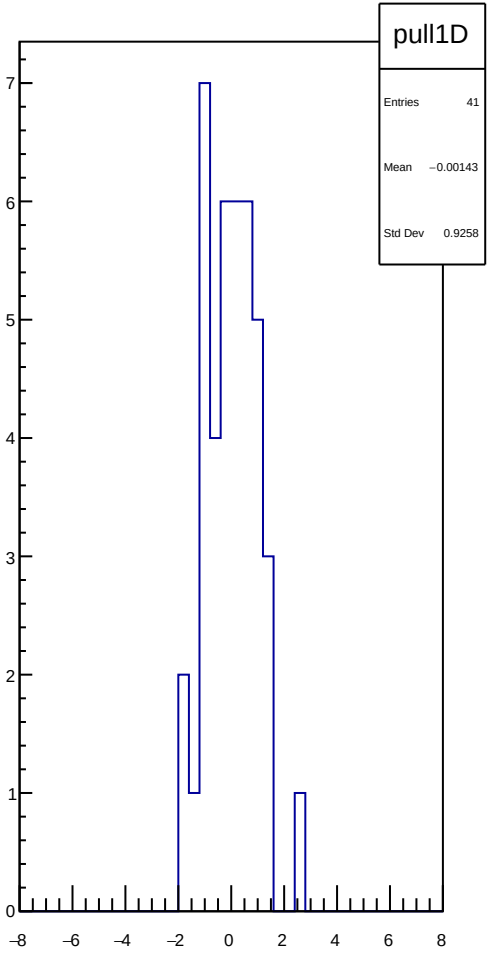

pull1D
Entries 41
Mean −0.00143
Std Dev 0.9258
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

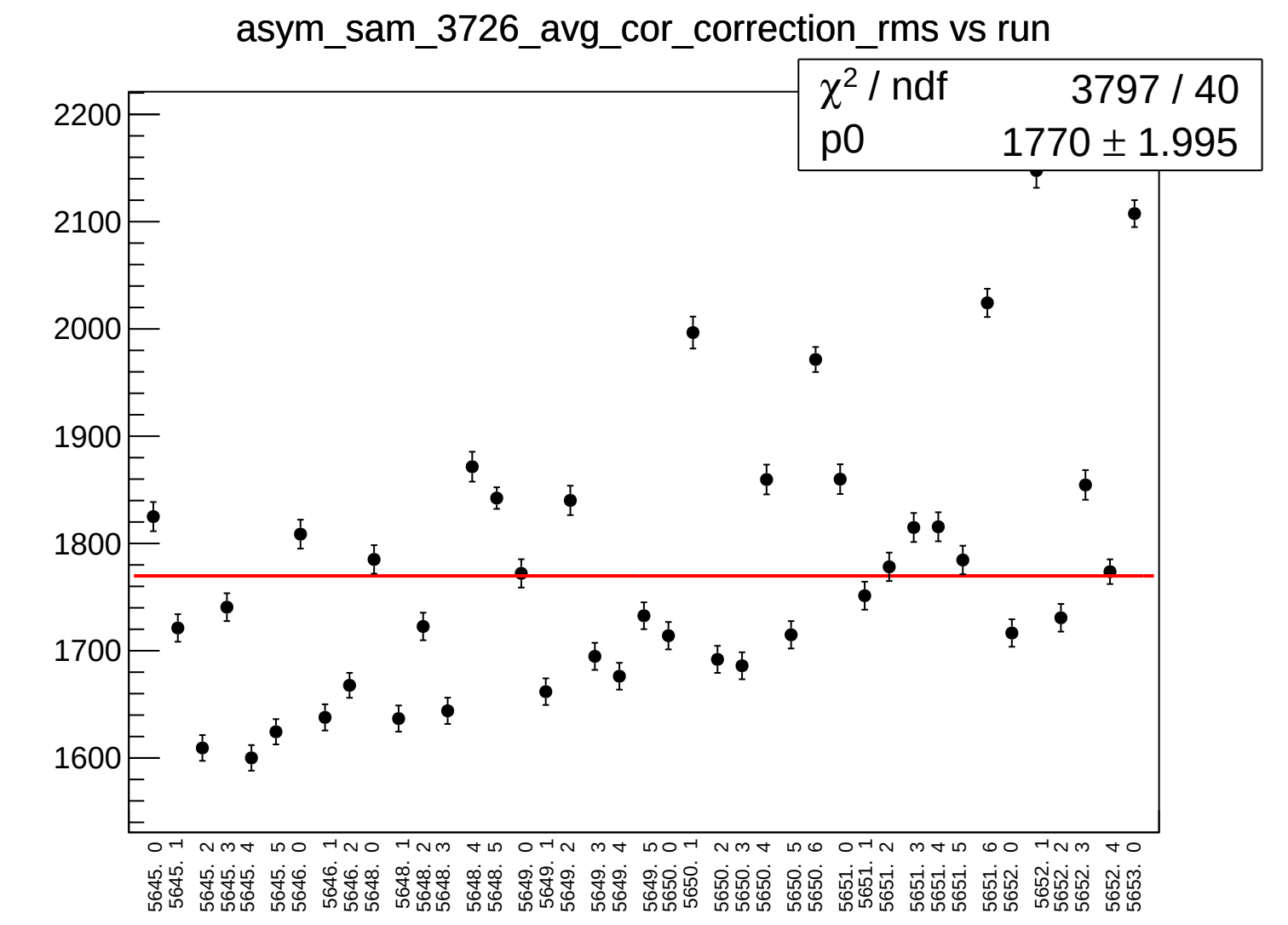

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3797 / 40
p0 1770 ± 1.995
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

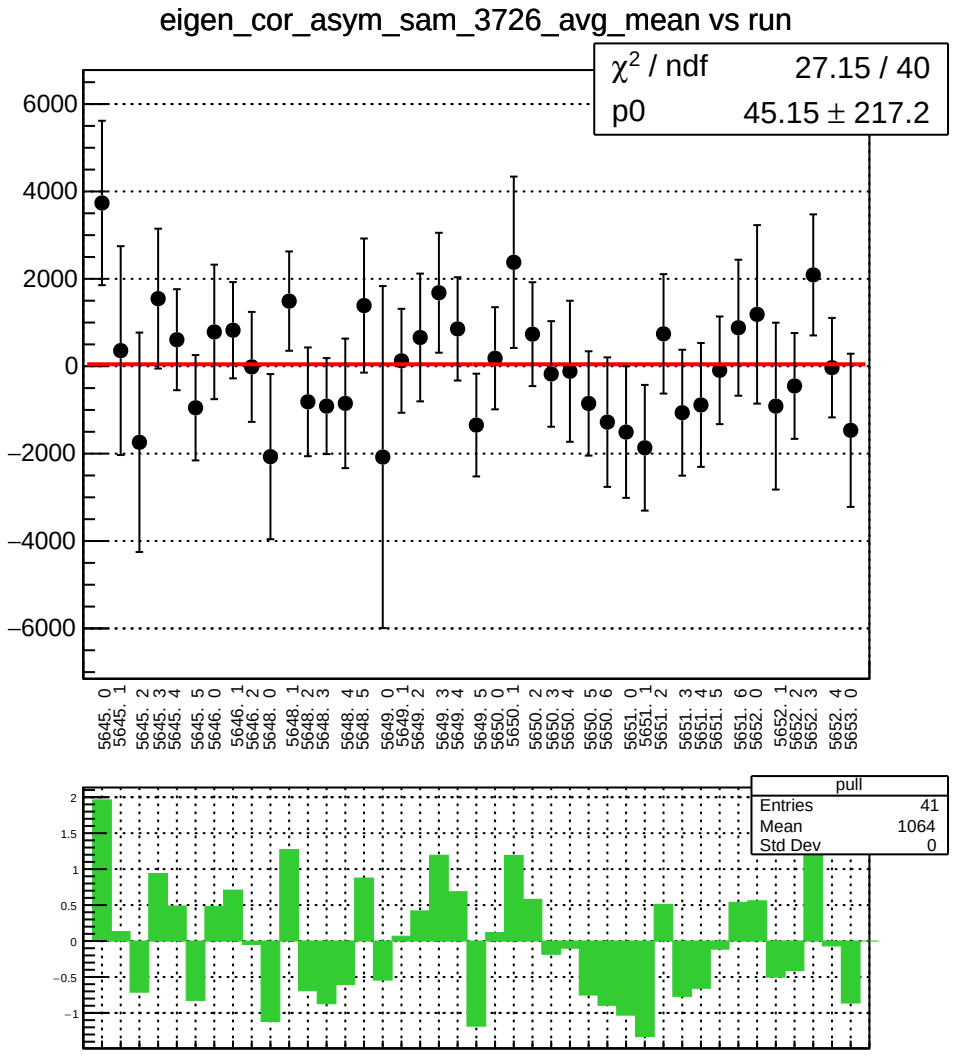

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 27.15 / 40
p0 45.15 ± 217.2
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1064
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.001812
Std Dev 0.8138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

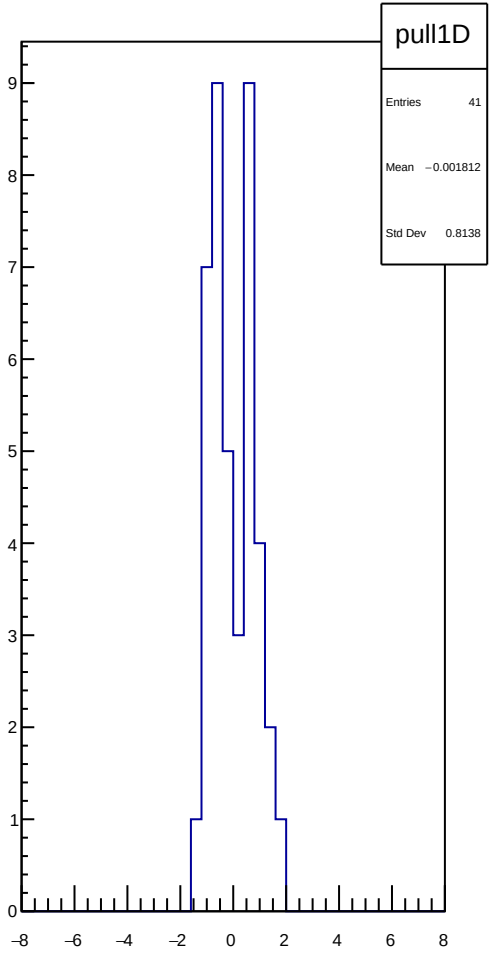

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.203e+04 / 40
p0 132.9 ± 0.1536
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

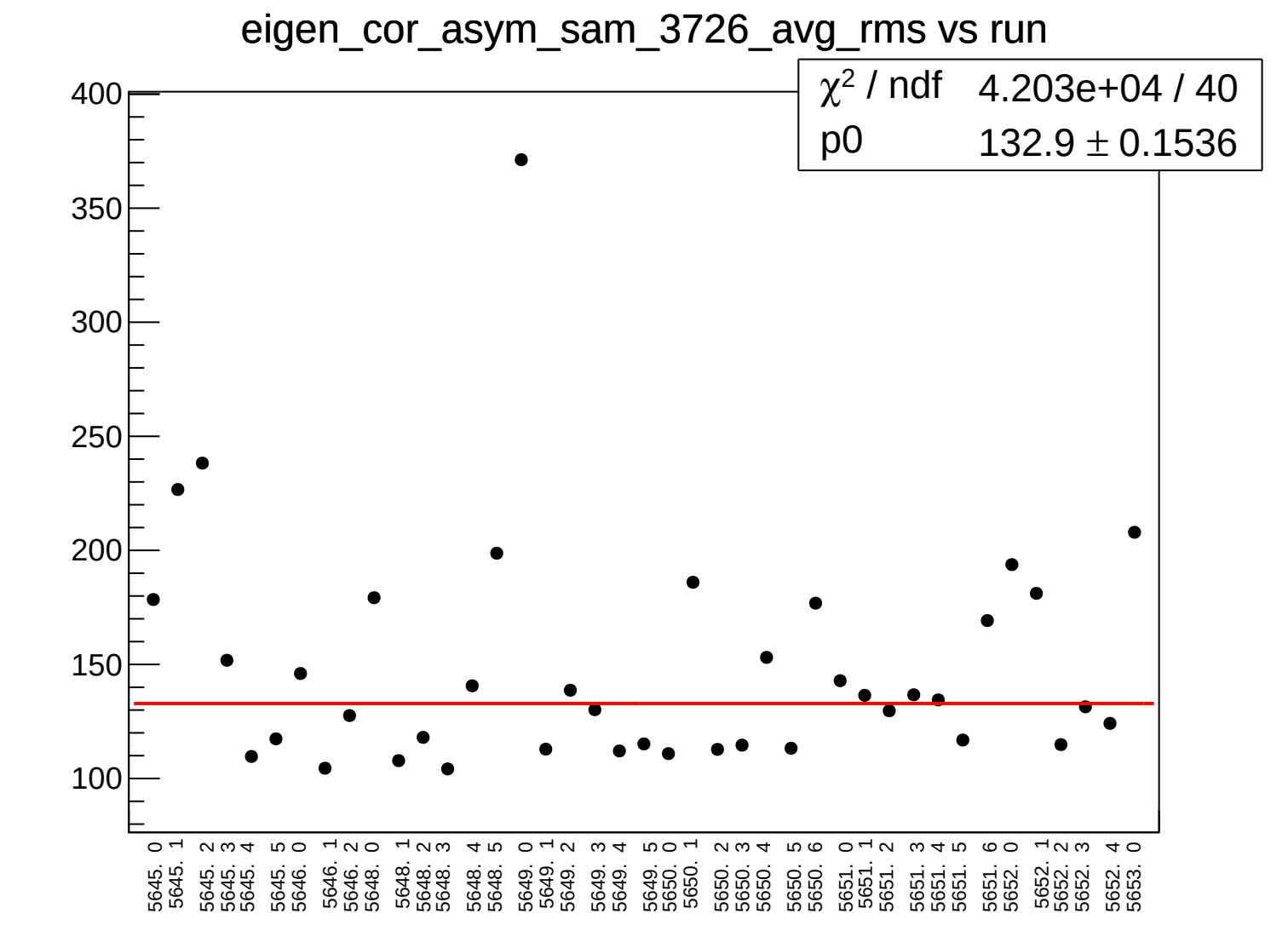

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 35.14 / 40
p0 1903 ± 2822
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −30.93
Std Dev 157.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

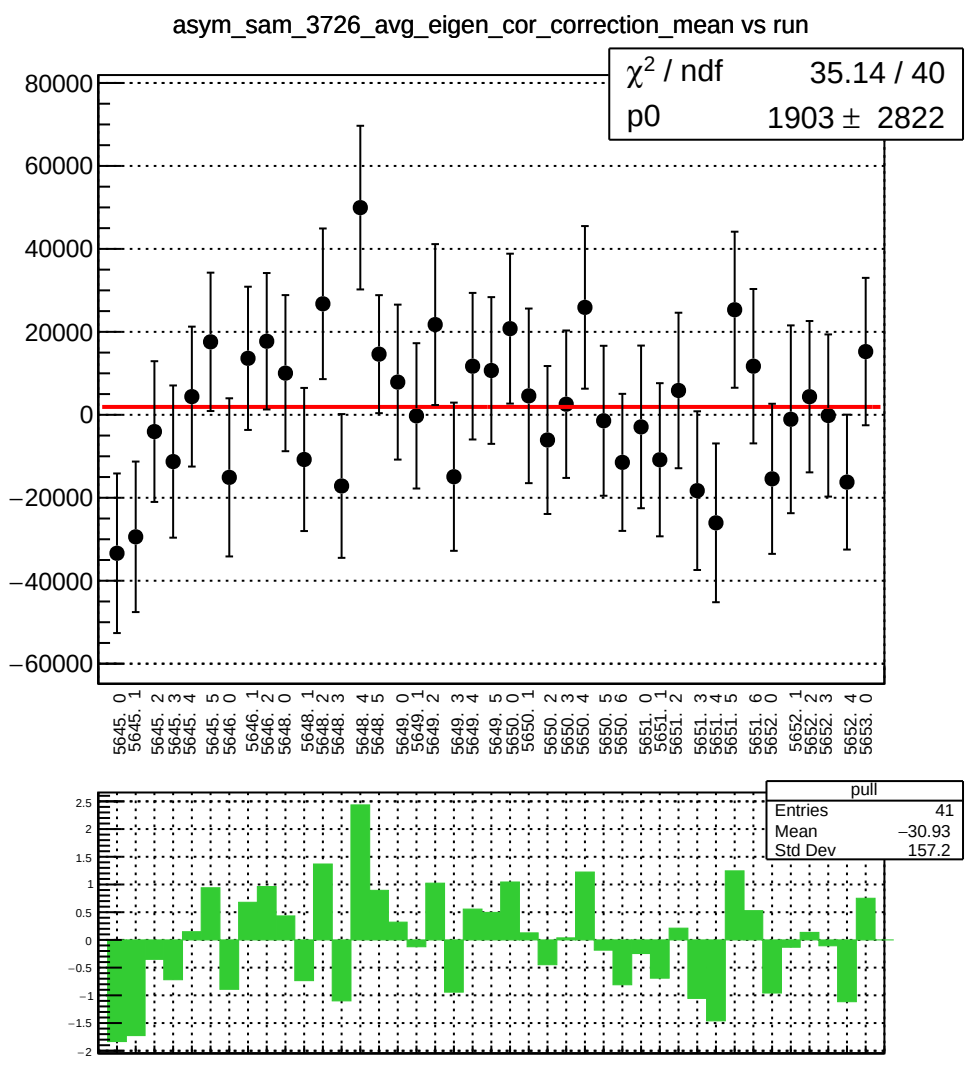

pull1D
Entries 41
Mean −0.00143
Std Dev 0.9258
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

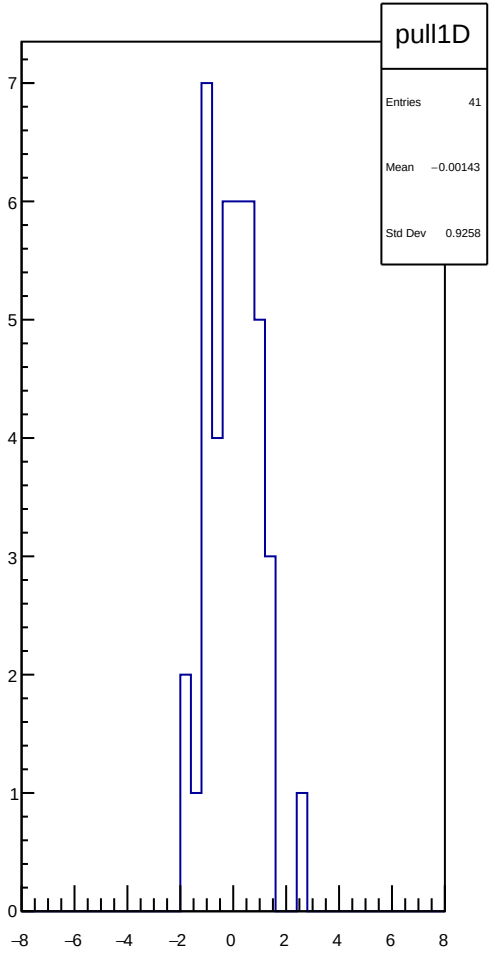

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3797 / 40
p0 1770 ± 1.995
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

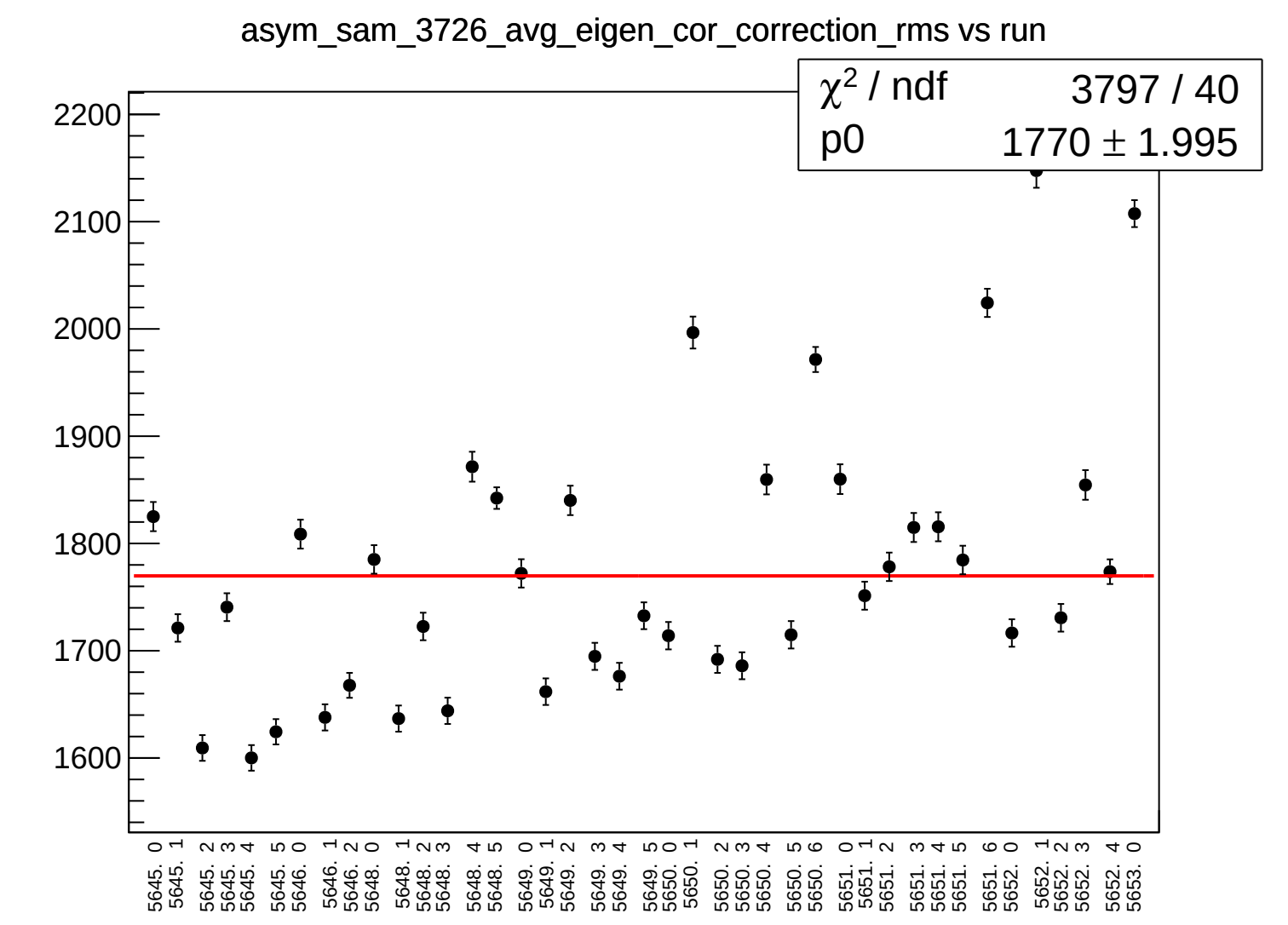

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 27.15 / 40
p0 45.15 ± 217.2
6000
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1064
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

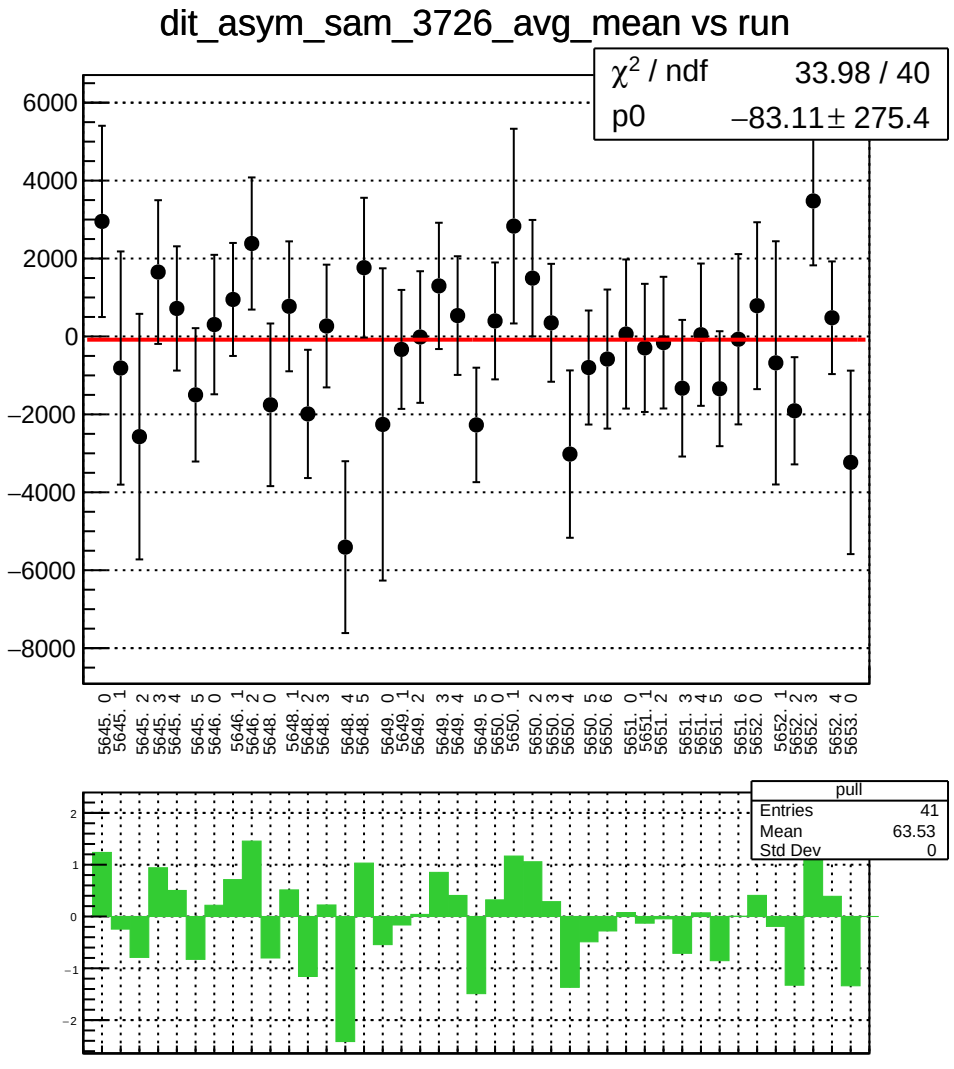

pull1D
Entries 41
Mean −0.001812
Std Dev 0.8138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

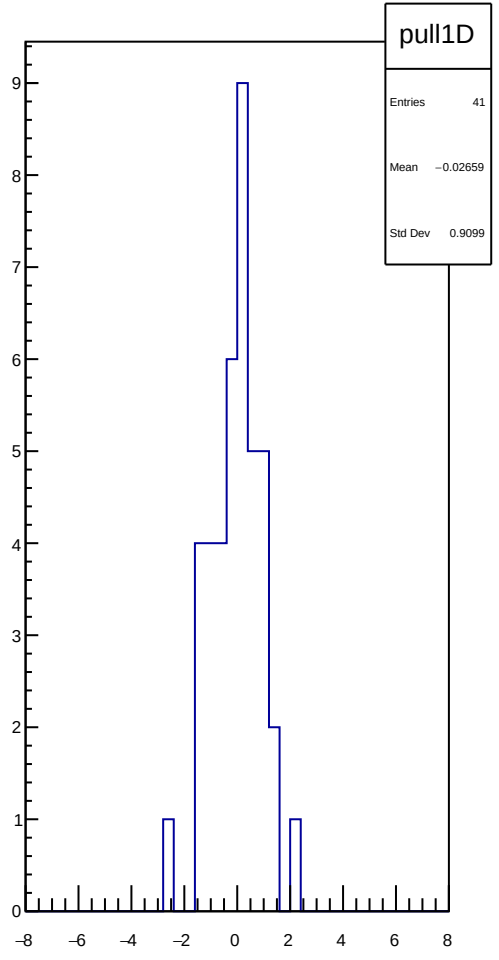

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.203e+04 / 40
p0 132.9 ± 0.1536
400
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

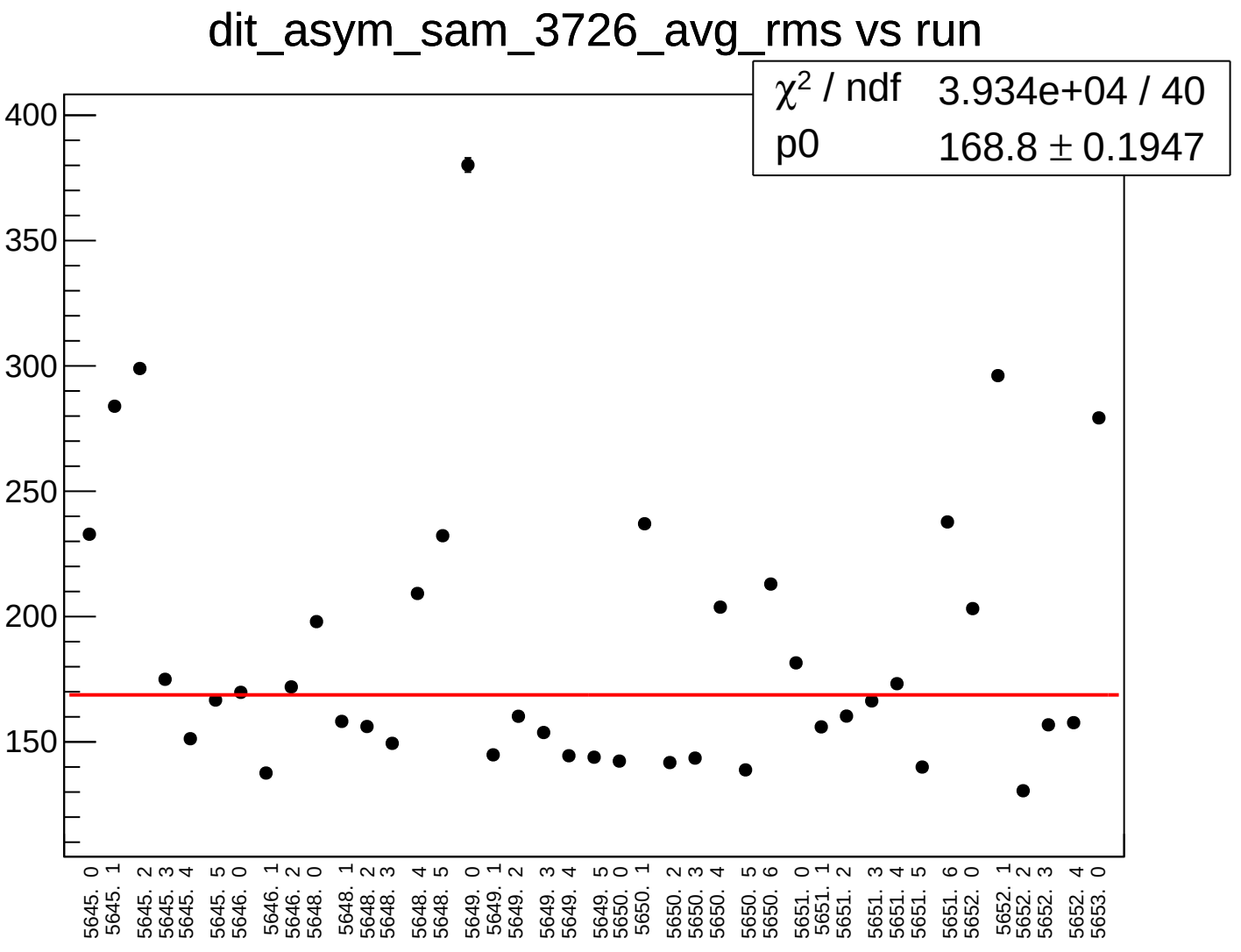

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 35.14 / 40
p0 1903 ± 2822
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −30.93
Std Dev 157.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

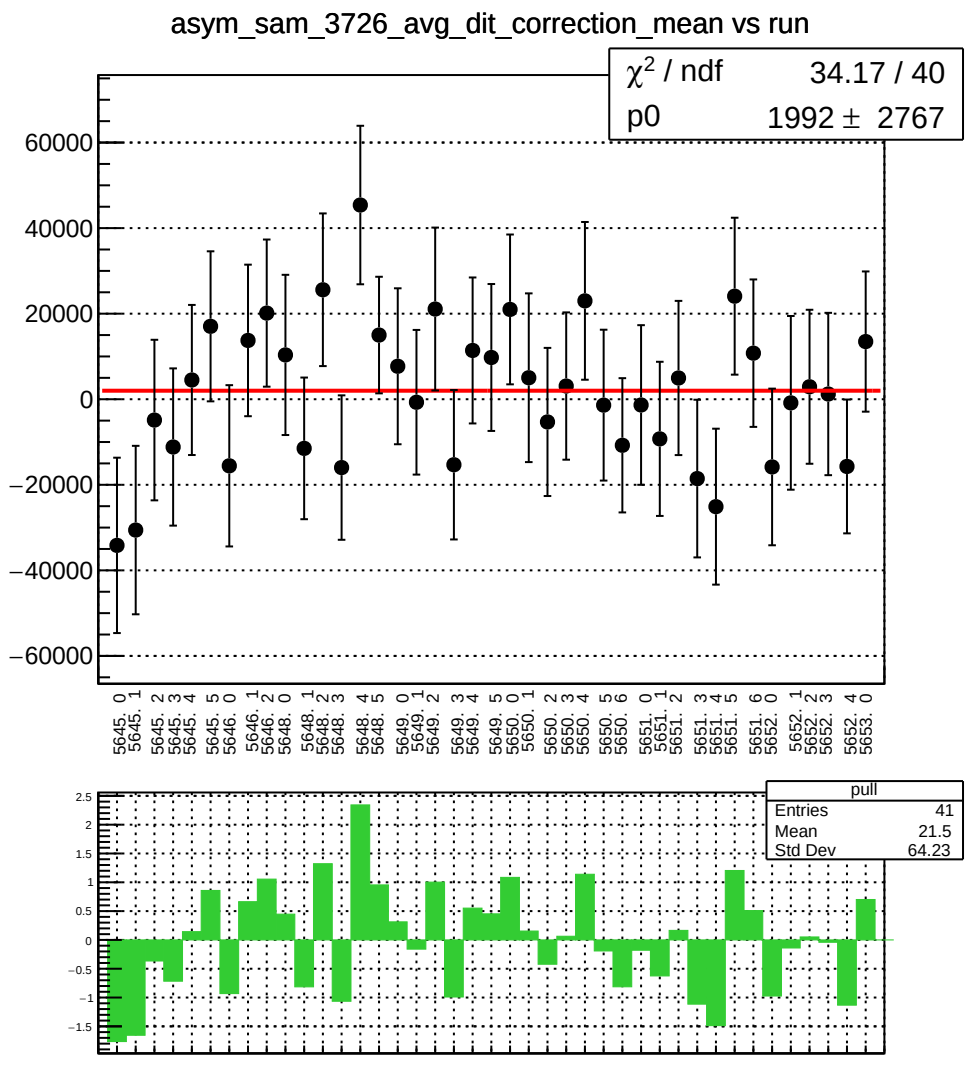

pull1D
Entries 41
Mean −0.00143
Std Dev 0.9258
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

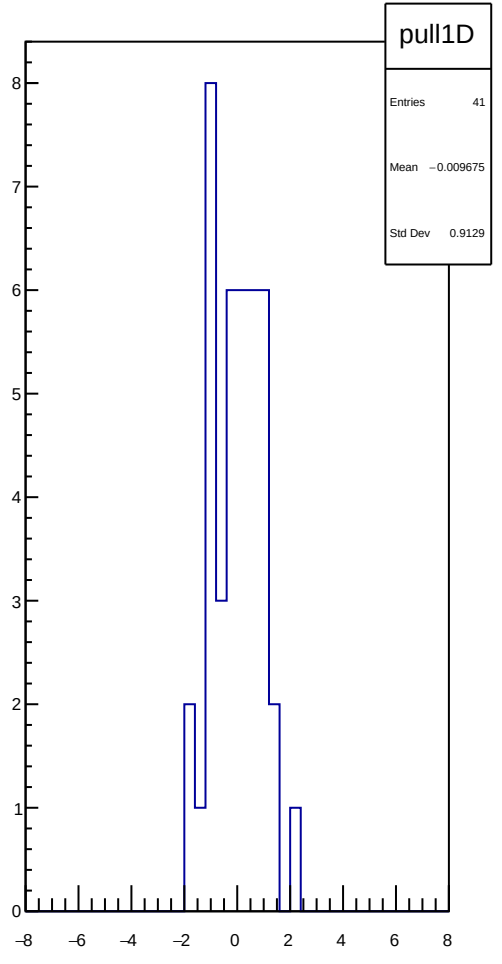

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3797 / 40
p0 1770 ± 1.995
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

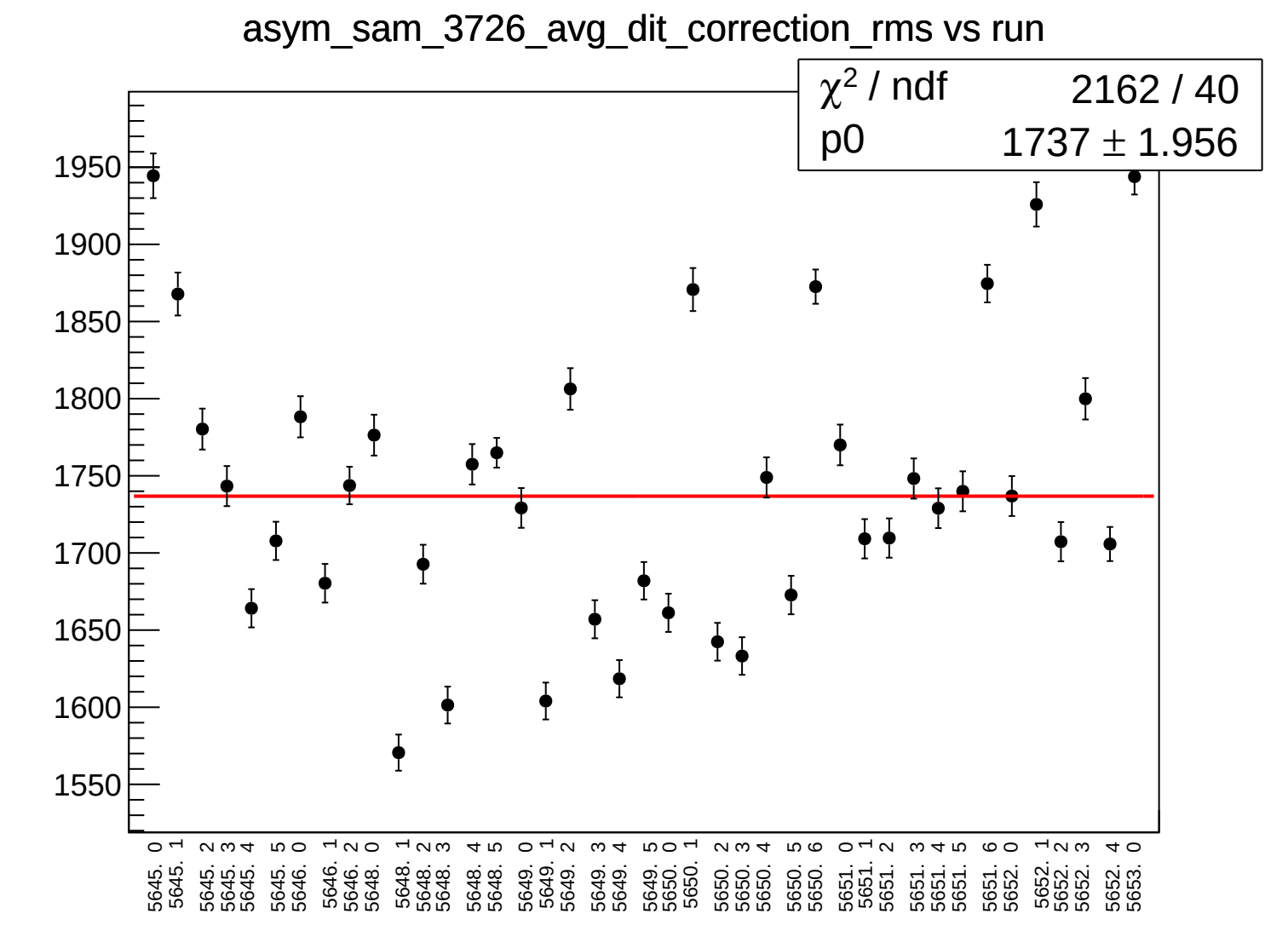

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 33.98 / 40
p0 −83.11± 275.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 63.53
Std Dev 0
2
1
0
−1
−2

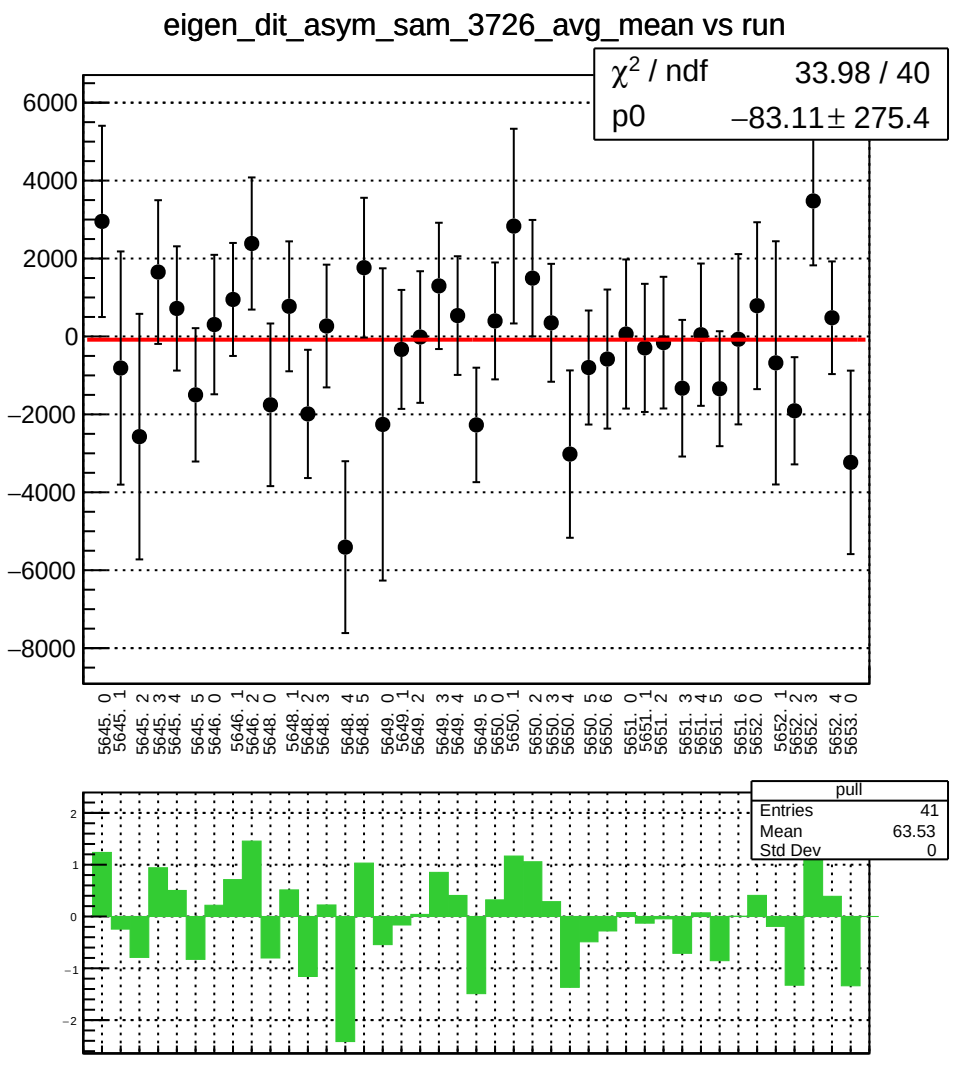

pull1D
Entries 41
Mean −0.02659
Std Dev 0.9099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

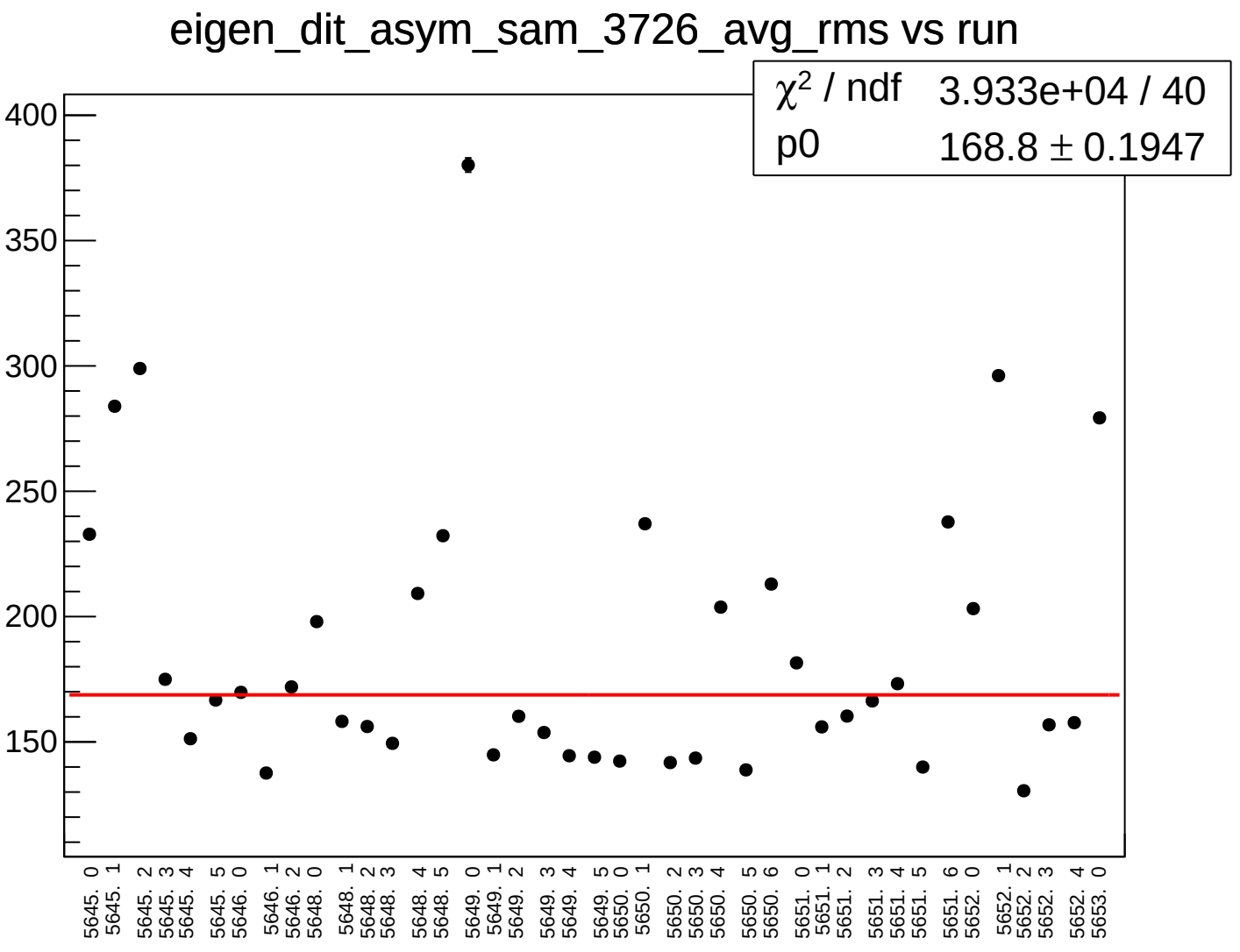

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.934e+04 / 40
p0 168.8 ± 0.1947
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

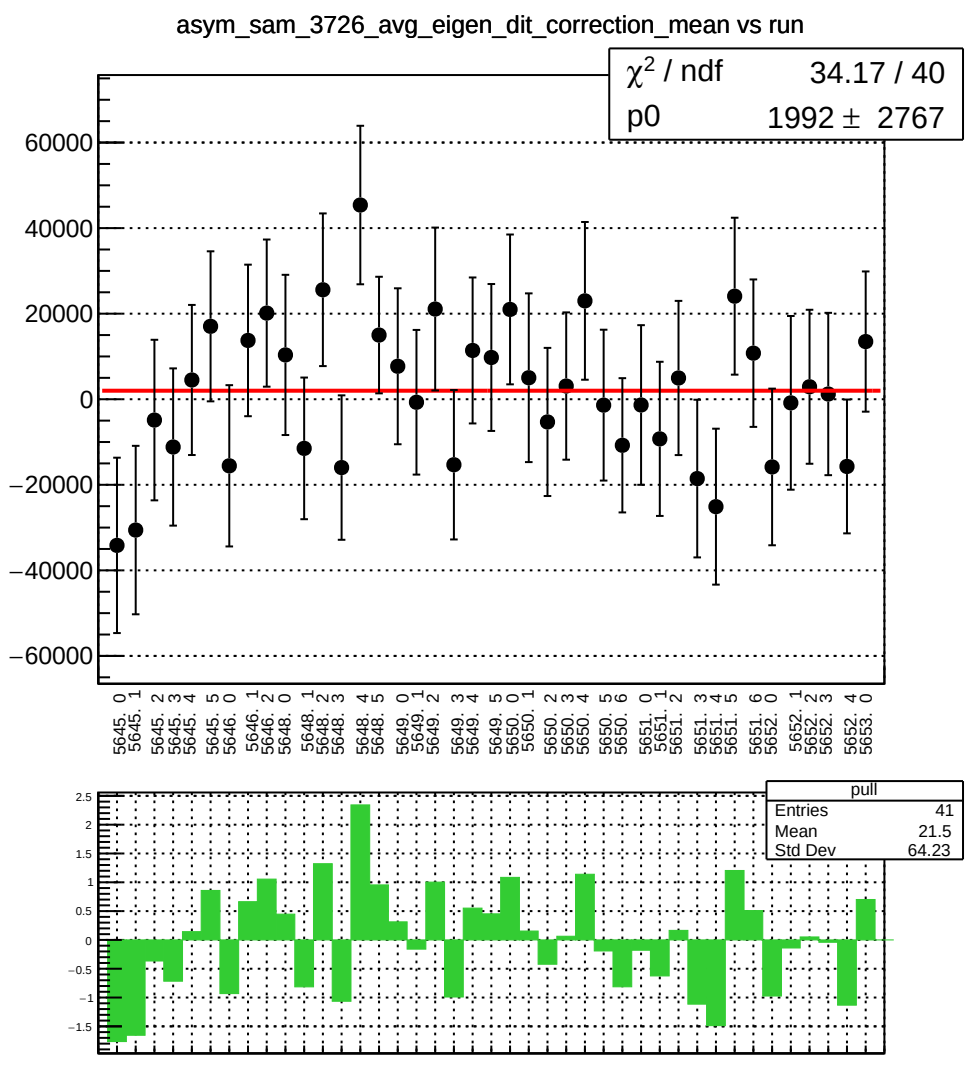

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 34.17 / 40
p0 1992 ± 2767
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.5
Std Dev 64.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

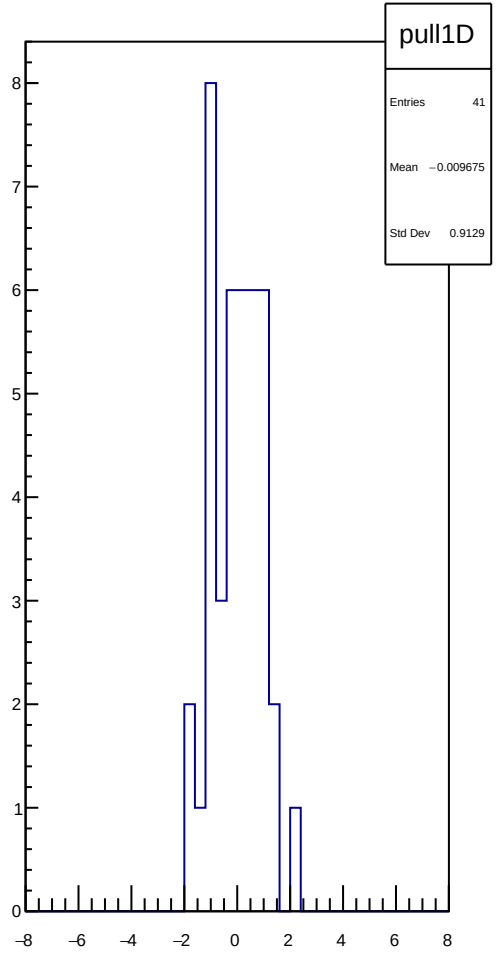

pull1D
Entries 41
Mean −0.009675
Std Dev 0.9129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

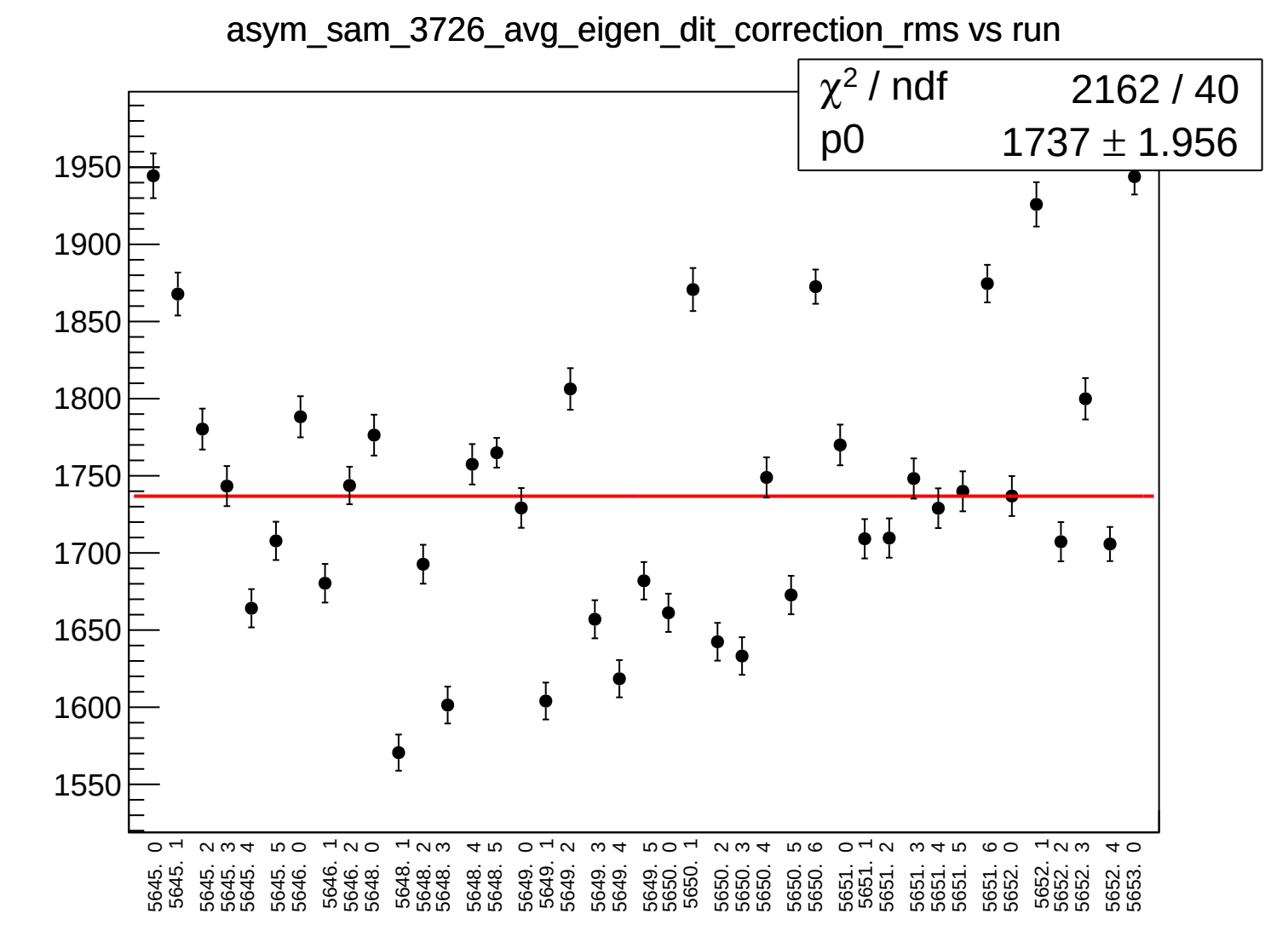

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2162 / 40
p0 1737 ± 1.956
1950
1900
1850
1800
1750
1700
1650
1600
1550
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

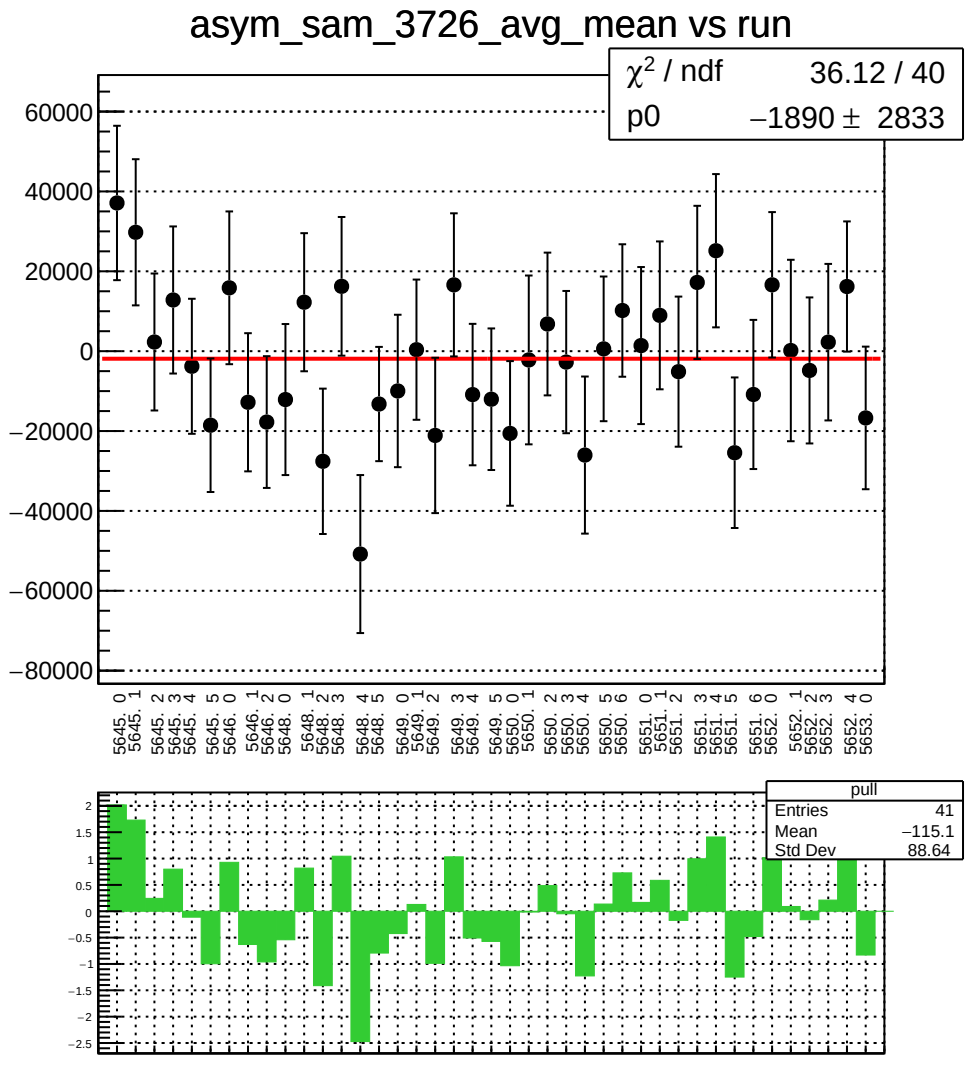

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 33.98 / 40
p0 −83.11± 275.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 63.53
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.02659
Std Dev 0.9099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

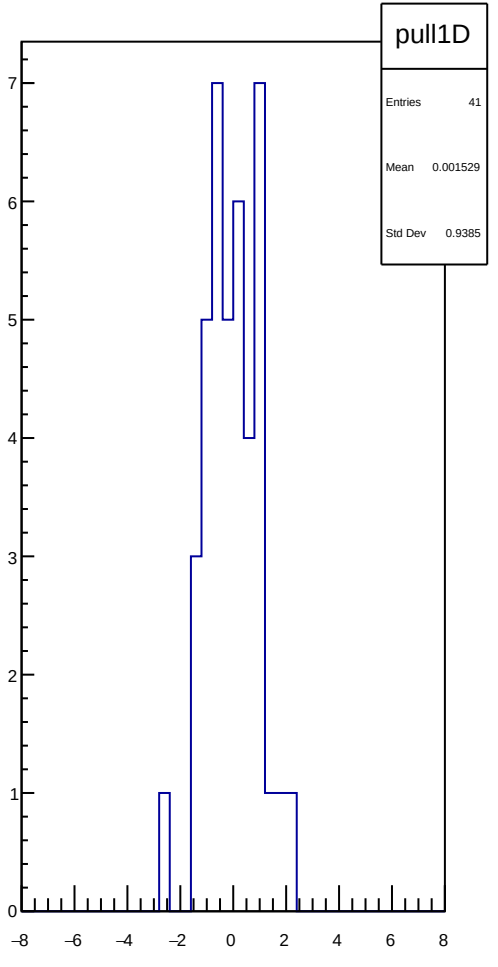

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.933e+04 / 40
p0 168.8 ± 0.1947
400
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

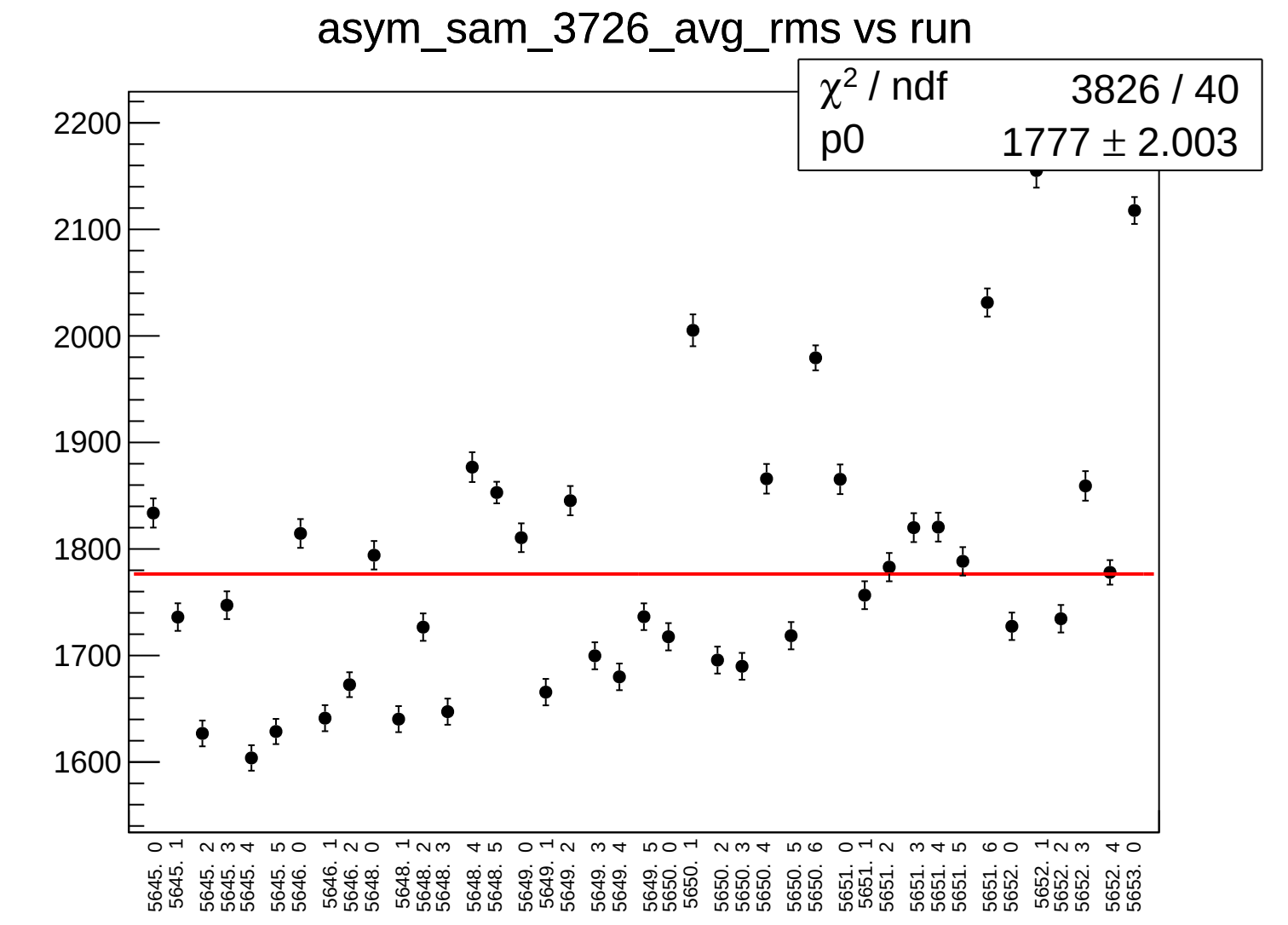

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.17 / 40
p0 1992 ± 2767
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.5
Std Dev 64.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

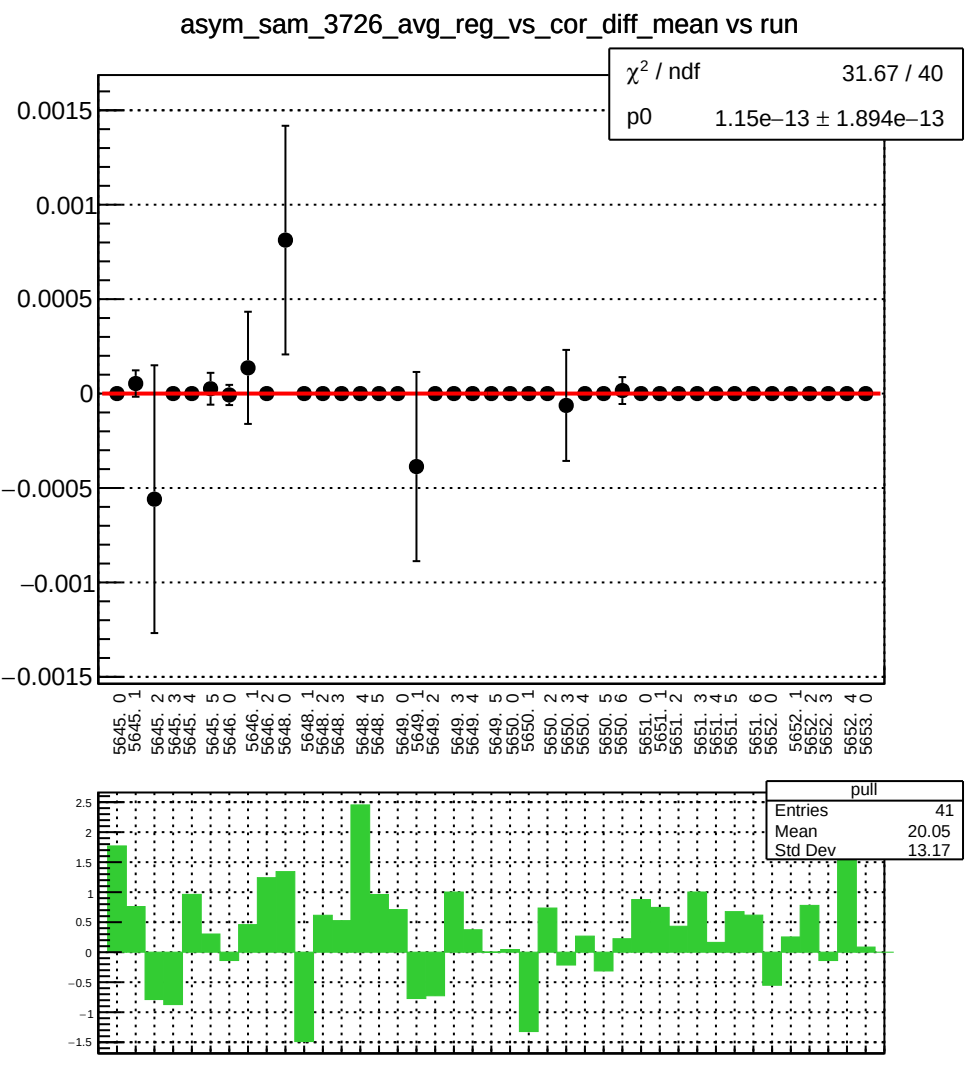

pull1D
Entries 41
Mean −0.009675
Std Dev 0.9129
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

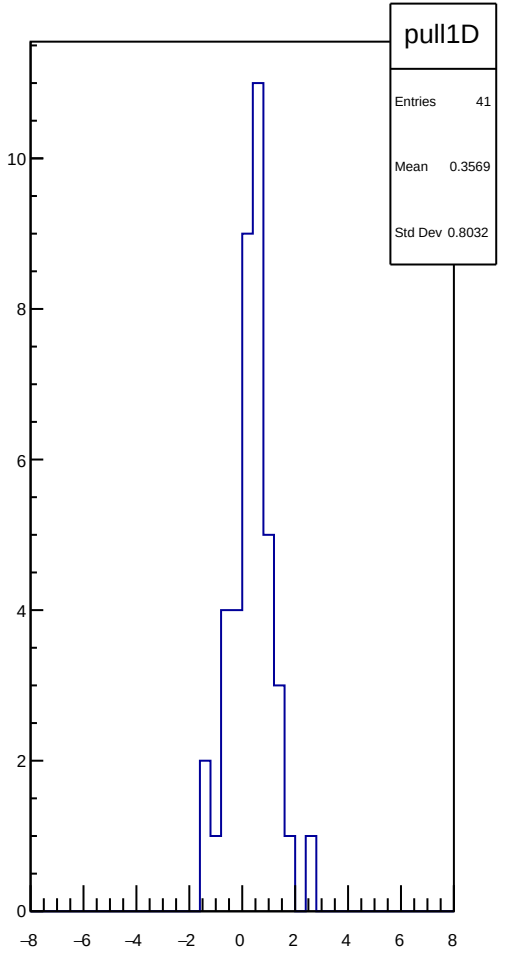

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2162 / 40
p0 1737 ± 1.956
1950
1900
1850
1800
1750
1700
1650
1600
1550
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

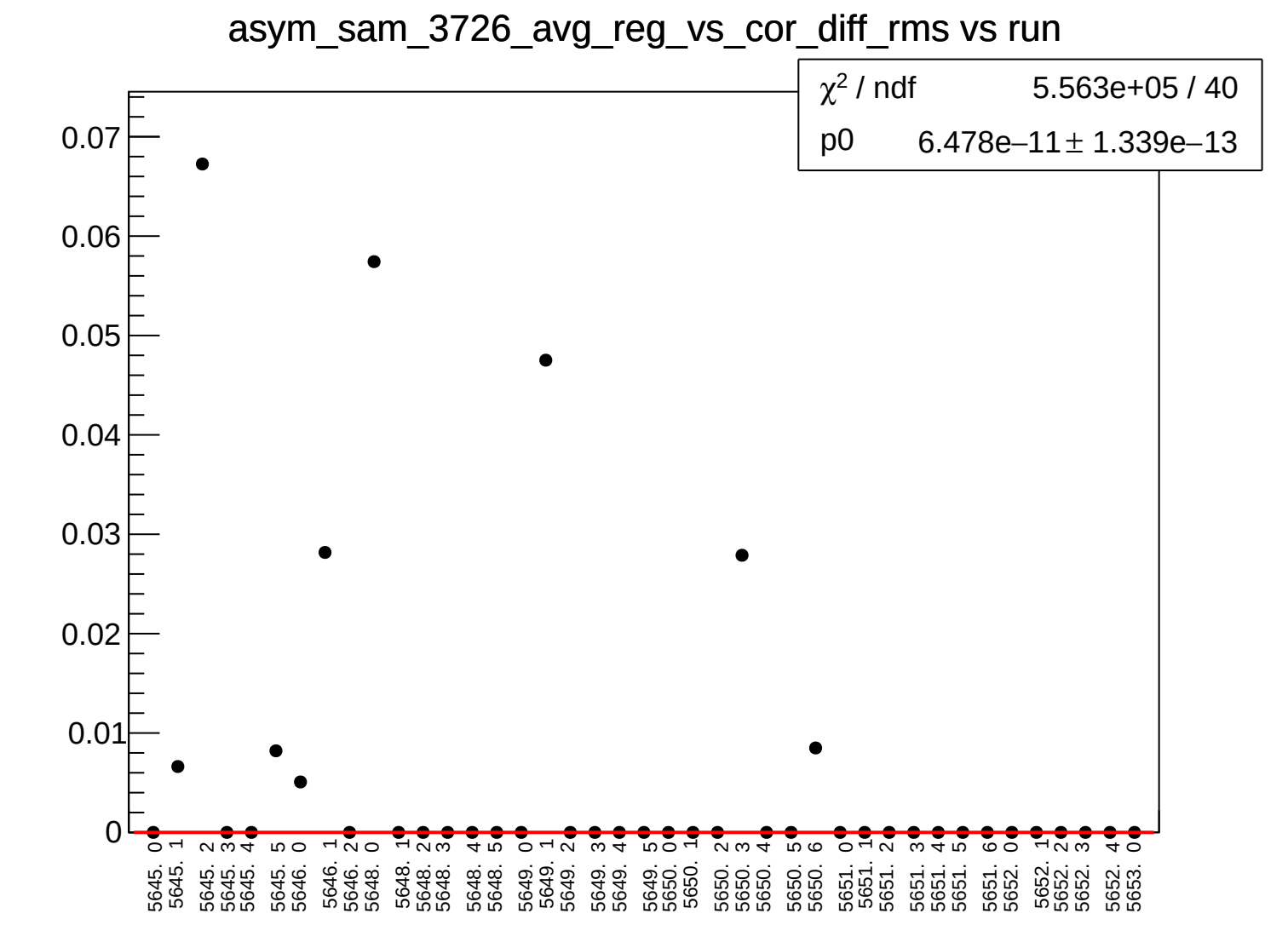

asym_sam_3726_avg_mean vs run
χ² / ndf 36.12 / 40
p0 −1890 ± 2833
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −115.1
Std Dev 88.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

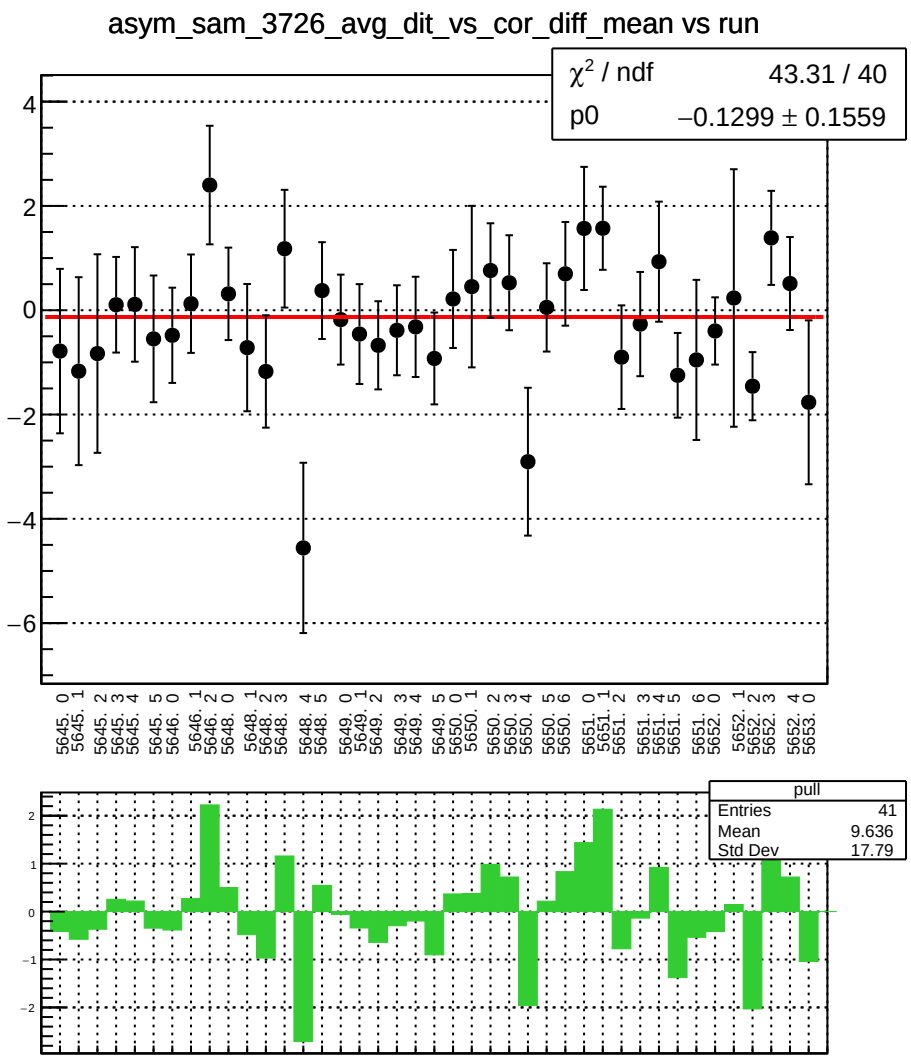

pull1D
Entries 41
Mean 0.001529
Std Dev 0.9385
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

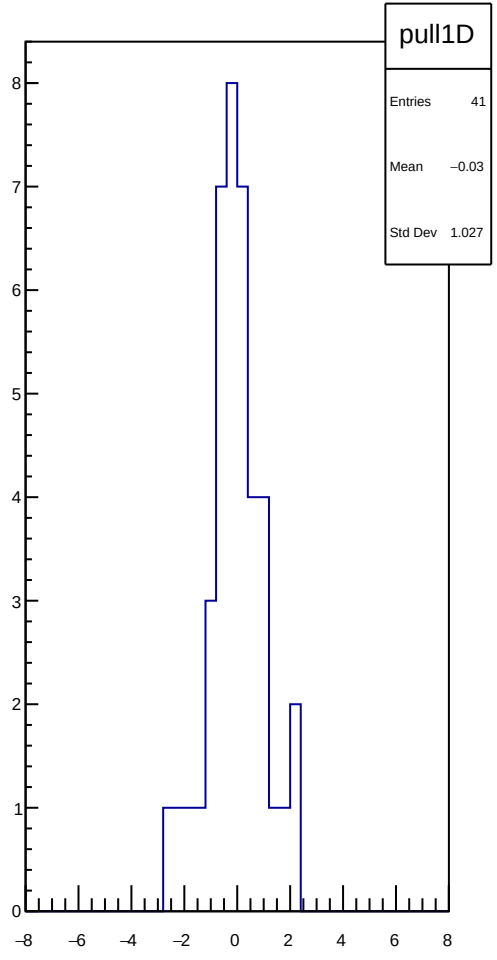

asym_sam_3726_avg_rms vs run
χ² / ndf 3826 / 40
p0 1777 ± 2.003
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

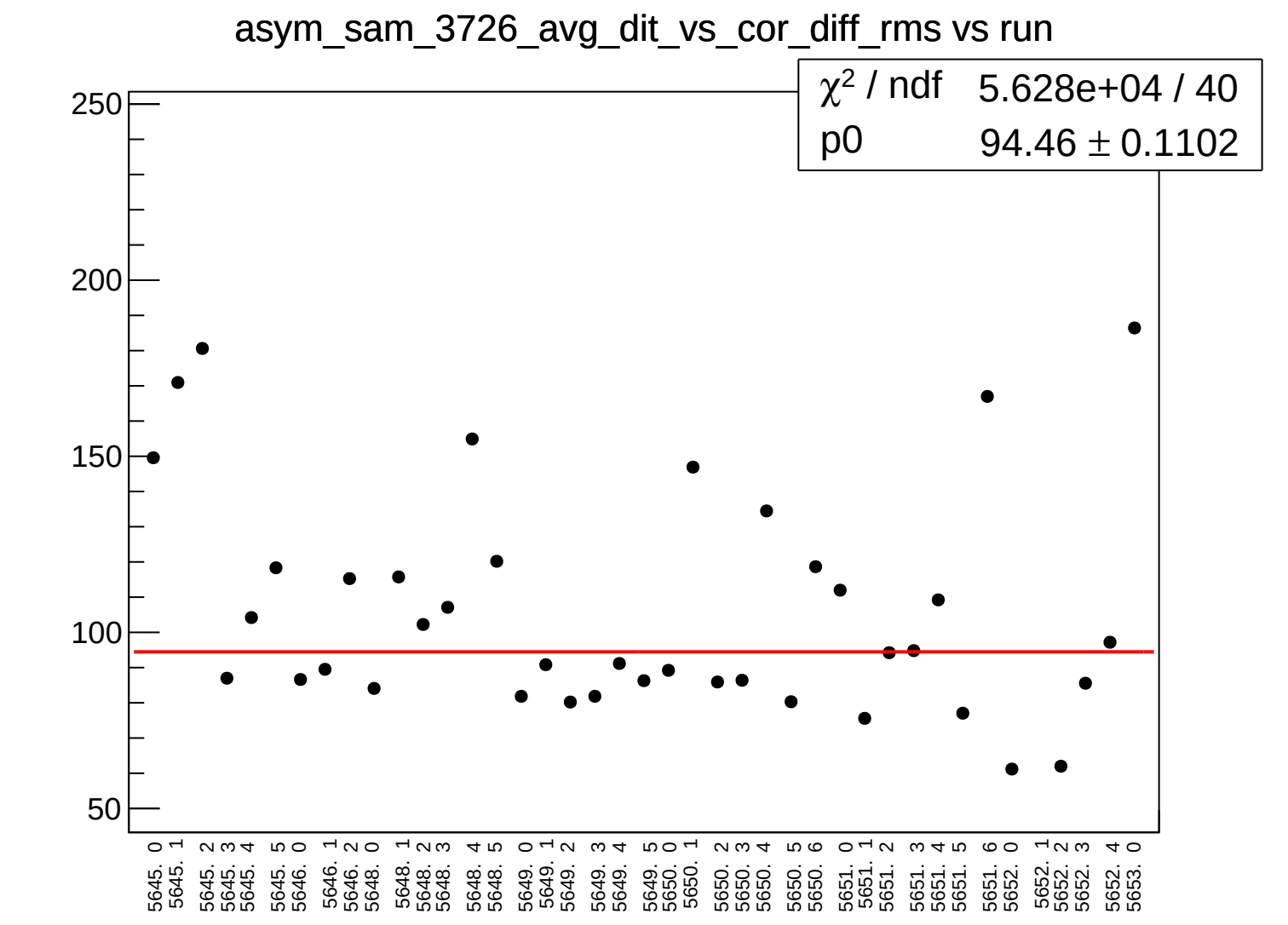

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.67 / 40
p0 1.15e−13 ± 1.894e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.05
Std Dev 13.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

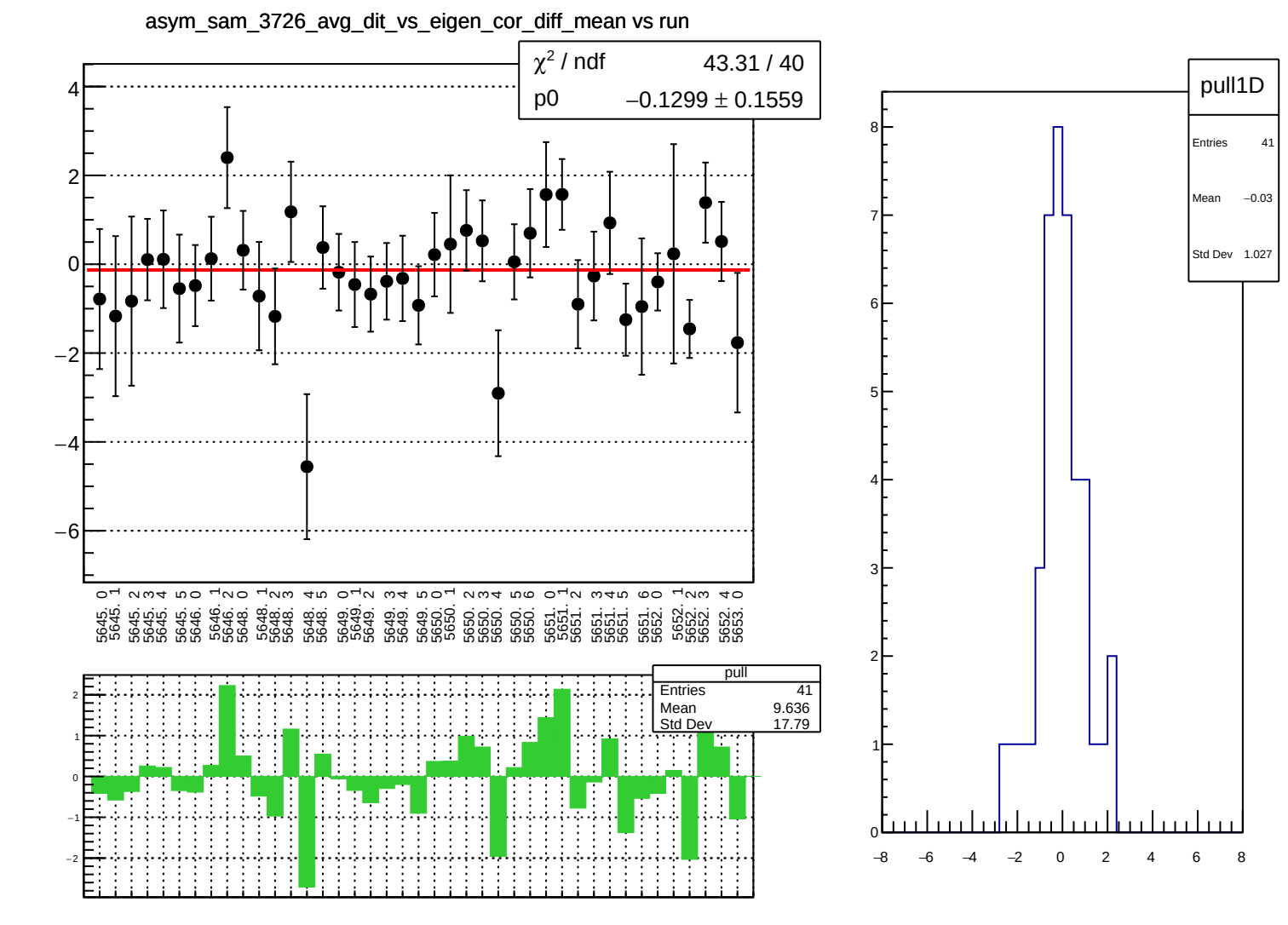

pull1D
Entries 41
Mean 0.3569
Std Dev 0.8032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

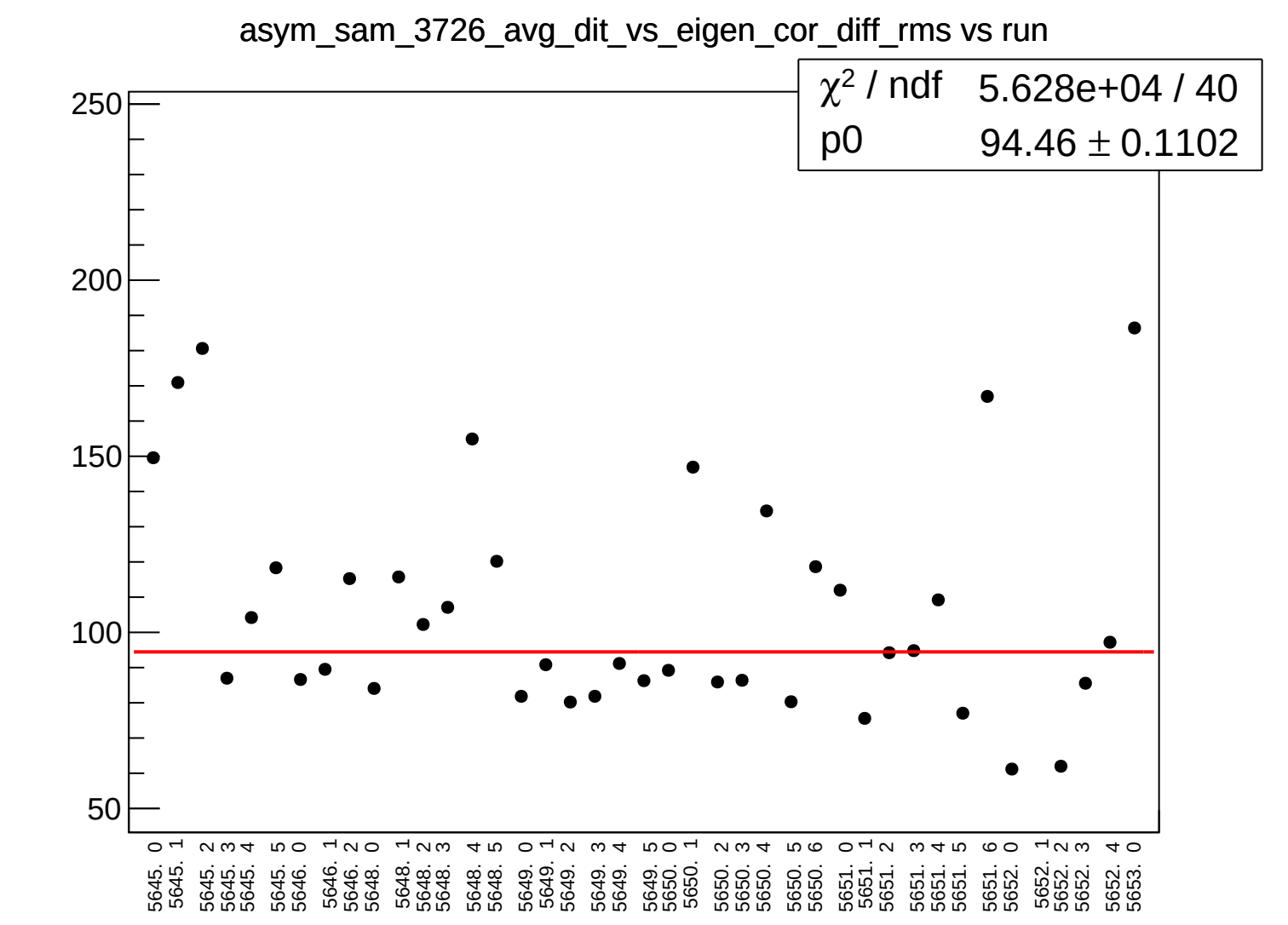

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.563e+05 / 40
p0 6.478e−11 ± 1.339e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

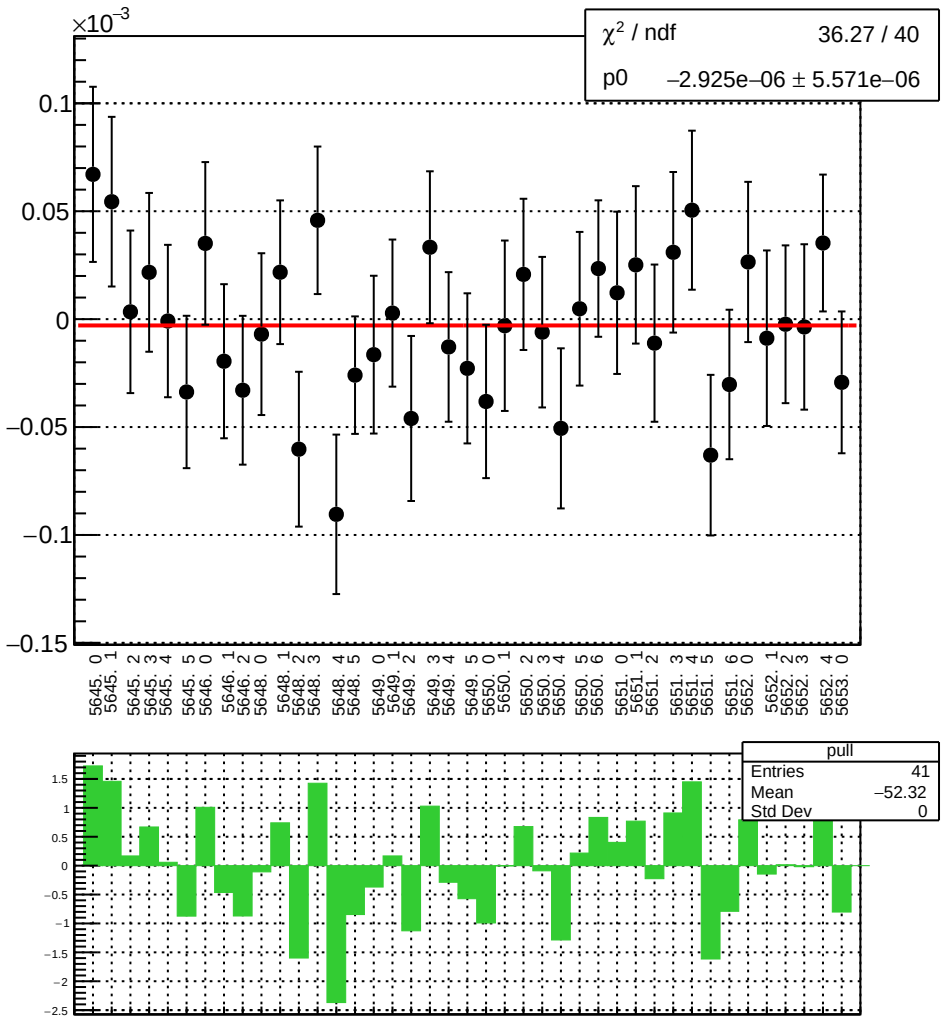

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.31 / 40
p0 −0.1299 ± 0.1559
pull
Entries 41
Mean 9.636
Std Dev 17.79

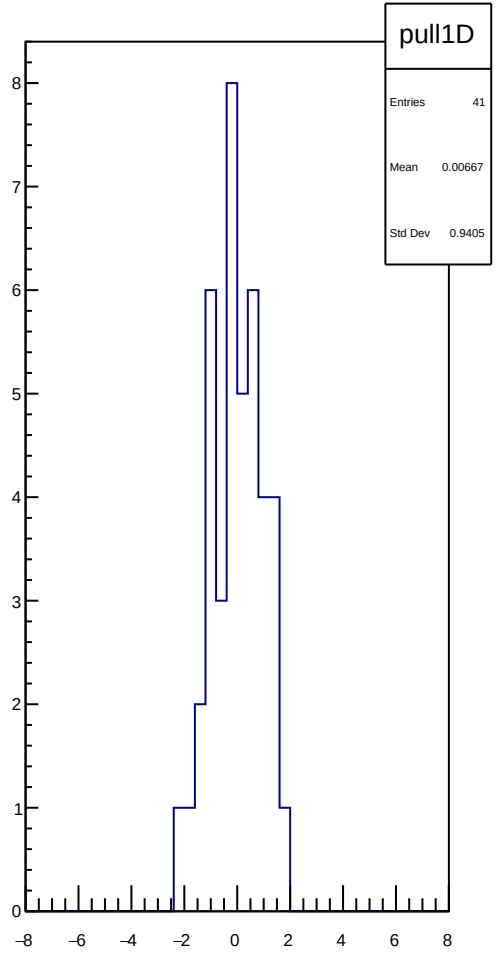

pull1D
Entries 41
Mean −0.03
Std Dev 1.027

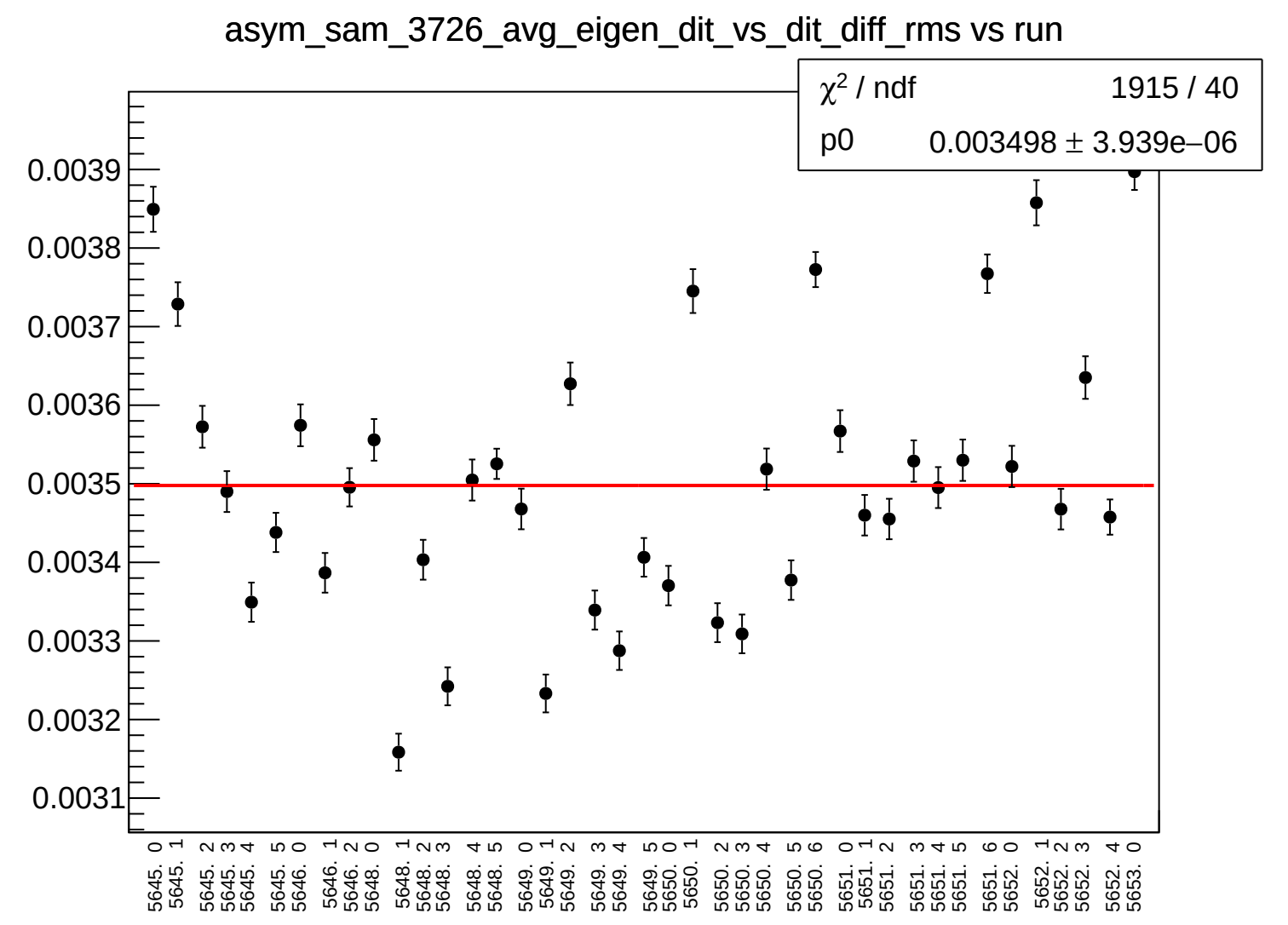

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.628e+04 / 40
p0 94.46 ± 0.1102
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

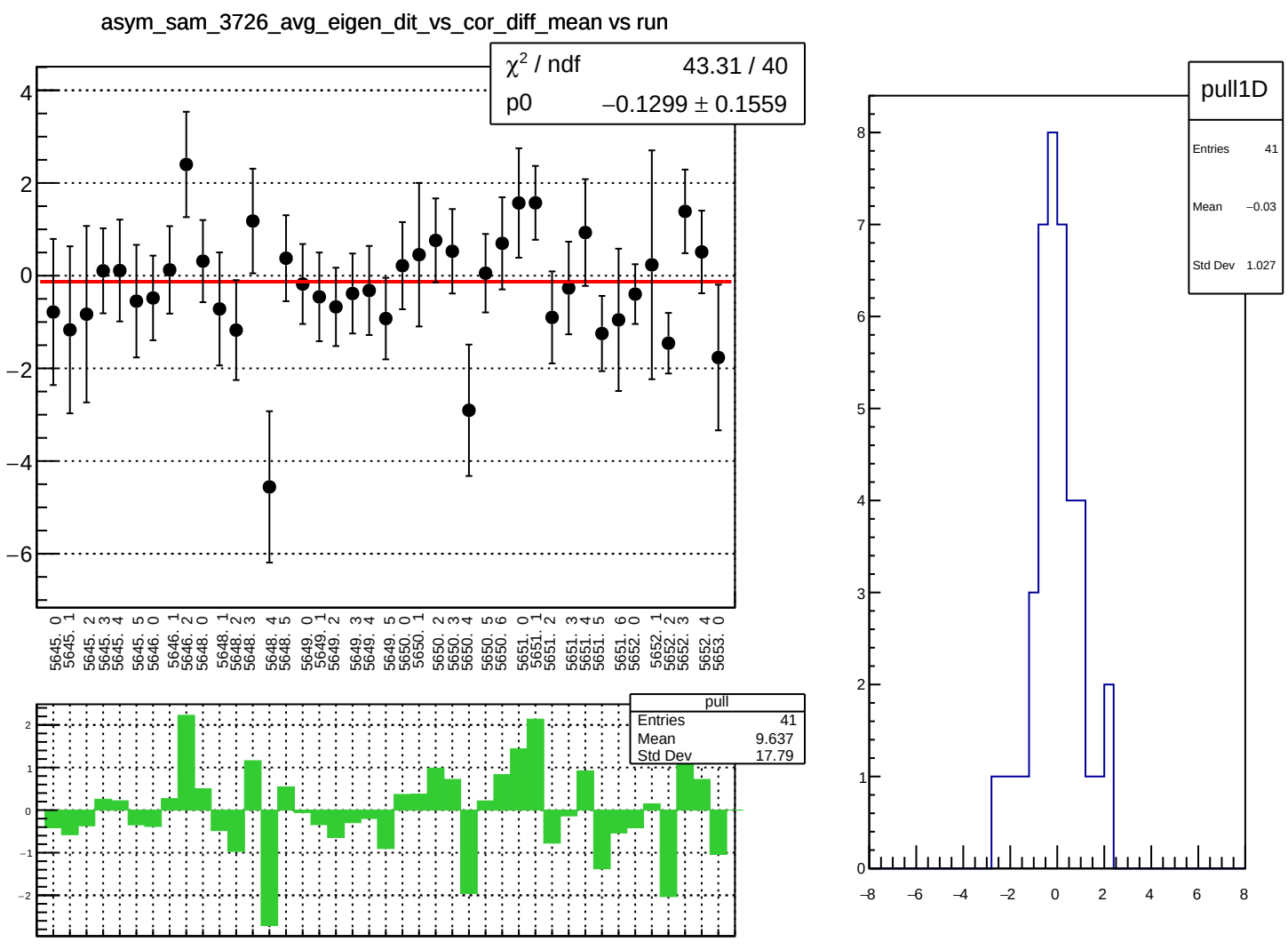

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.31 / 40
p0 −0.1299 ± 0.1559
pull
Entries 41
Mean 9.636
Std Dev 17.79
pull1D
Entries 41
Mean −0.03
Std Dev 1.027

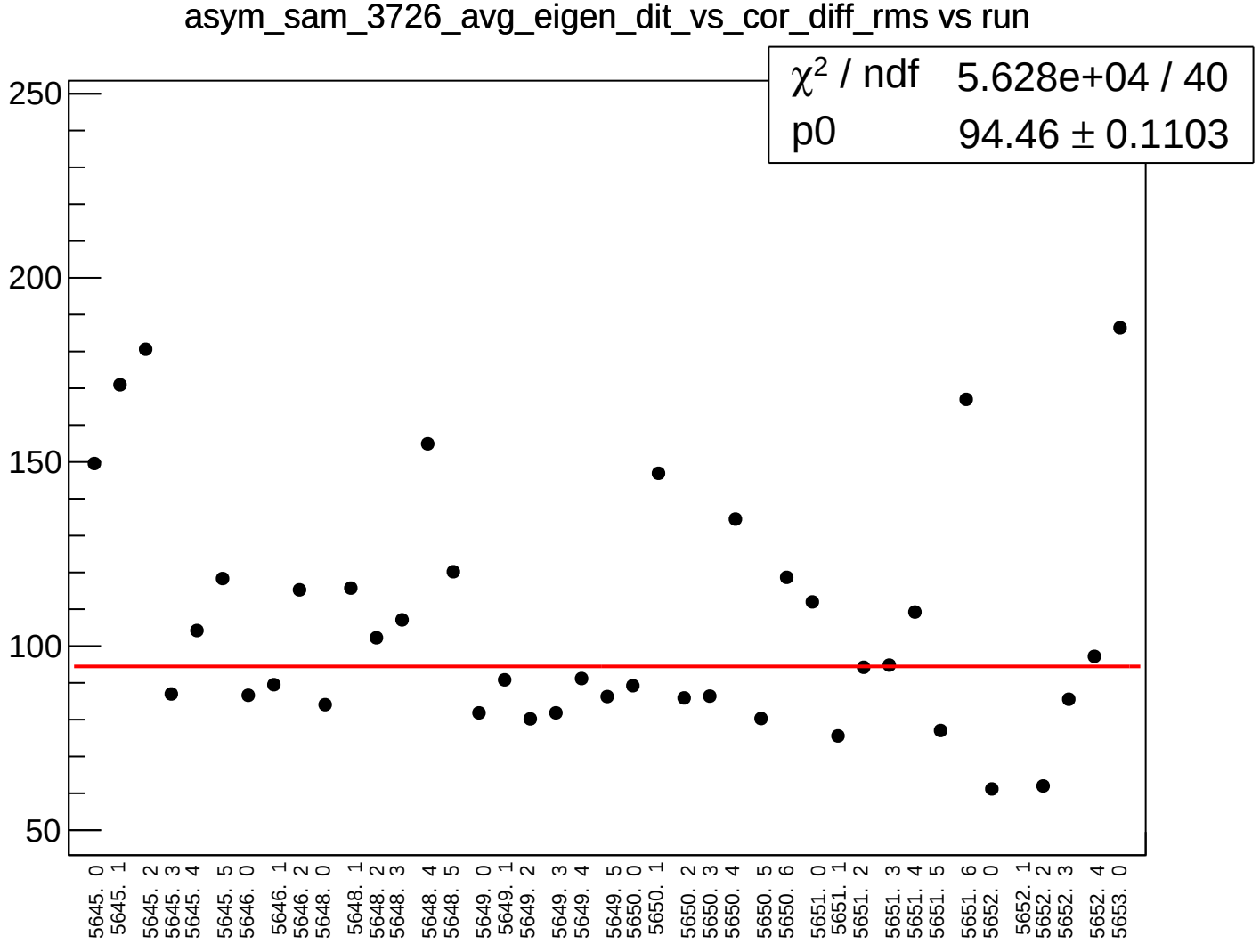

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.628e+04 / 40
p0 94.46 ± 0.1102
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

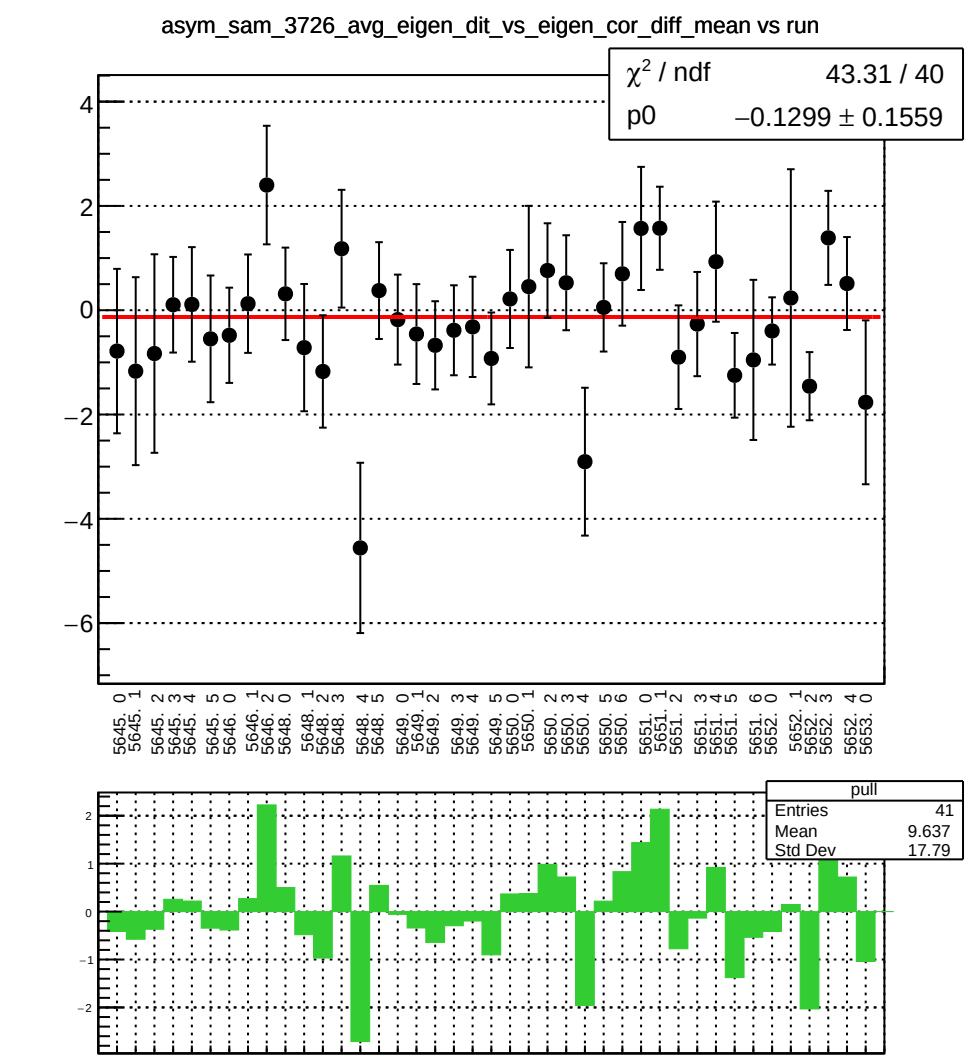

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 36.27 / 40
p0 −2.925e−06 ± 5.571e−06
pull
Entries 41
Mean −52.32
Std Dev 0

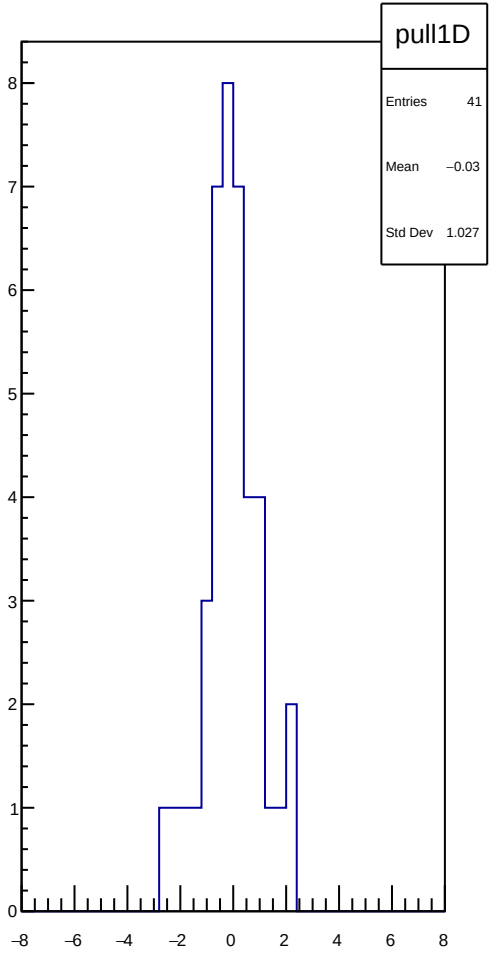

pull1D
Entries 41
Mean 0.00667
Std Dev 0.9405

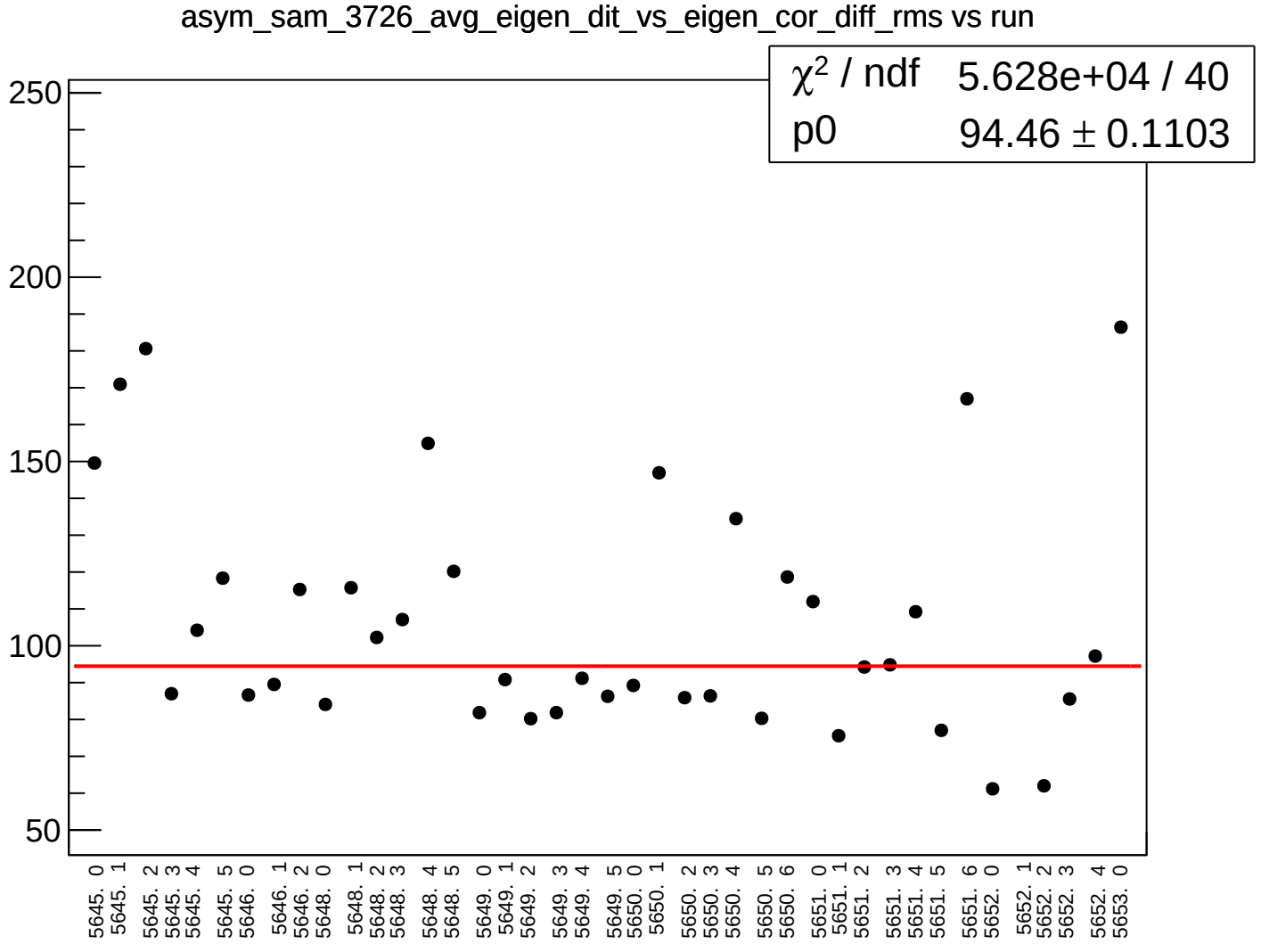

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1915 / 40
p0 0.003498 ± 3.939e−06
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

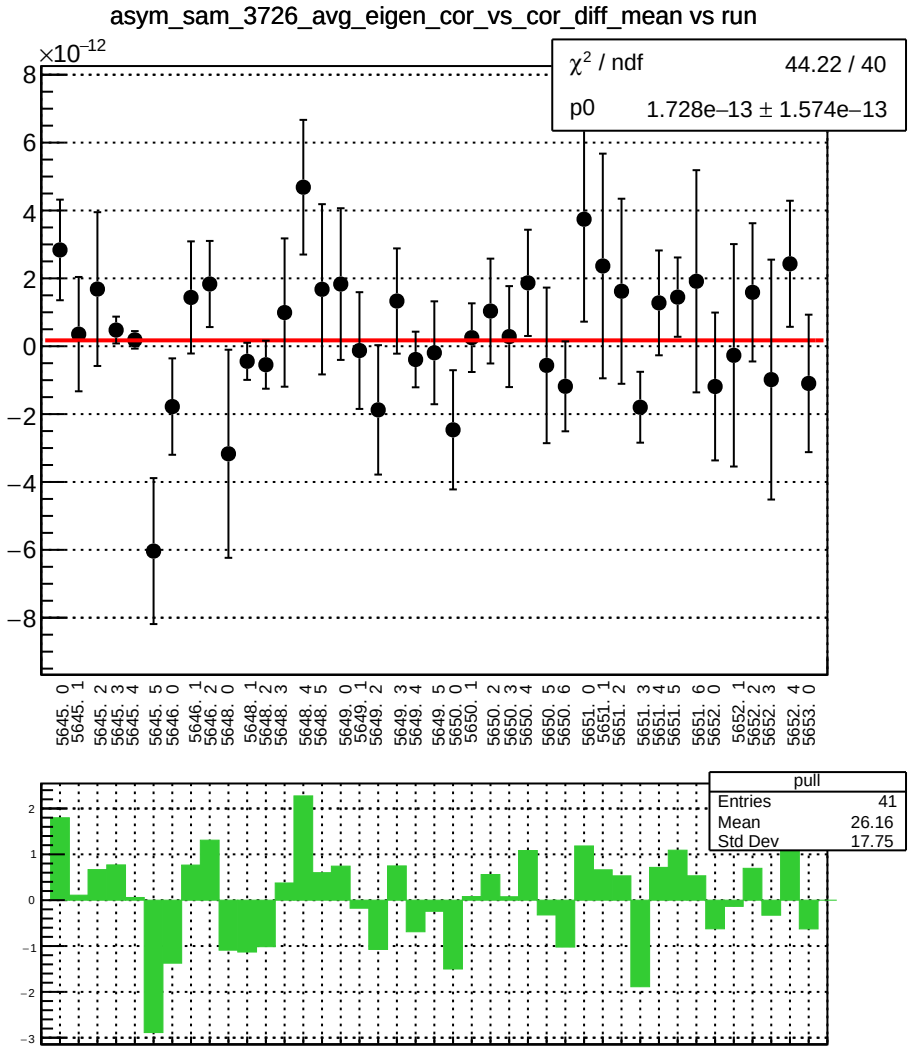

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.31 / 40
p0 −0.1299 ± 0.1559
pull
Entries 41
Mean 9.637
Std Dev 17.79
pull1D
Entries 41
Mean −0.03
Std Dev 1.027

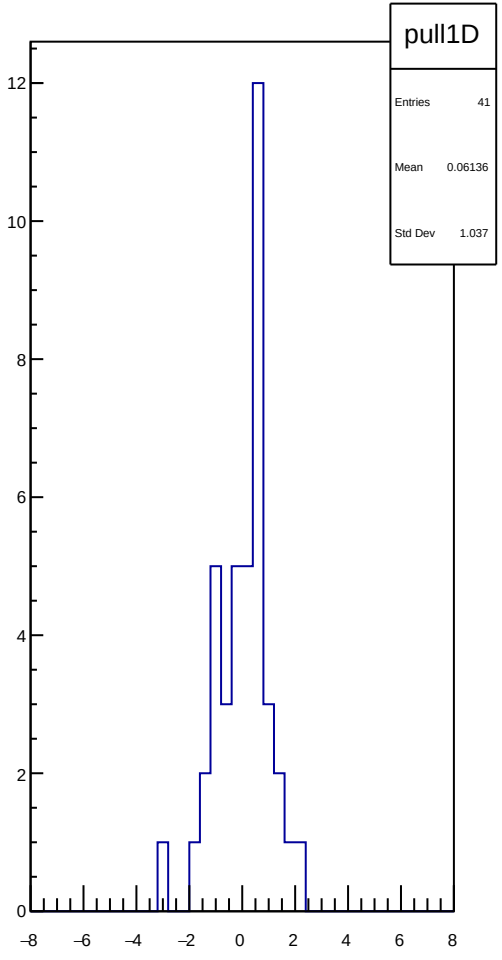

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.628e+04 / 40
p0 94.46 ± 0.1103
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

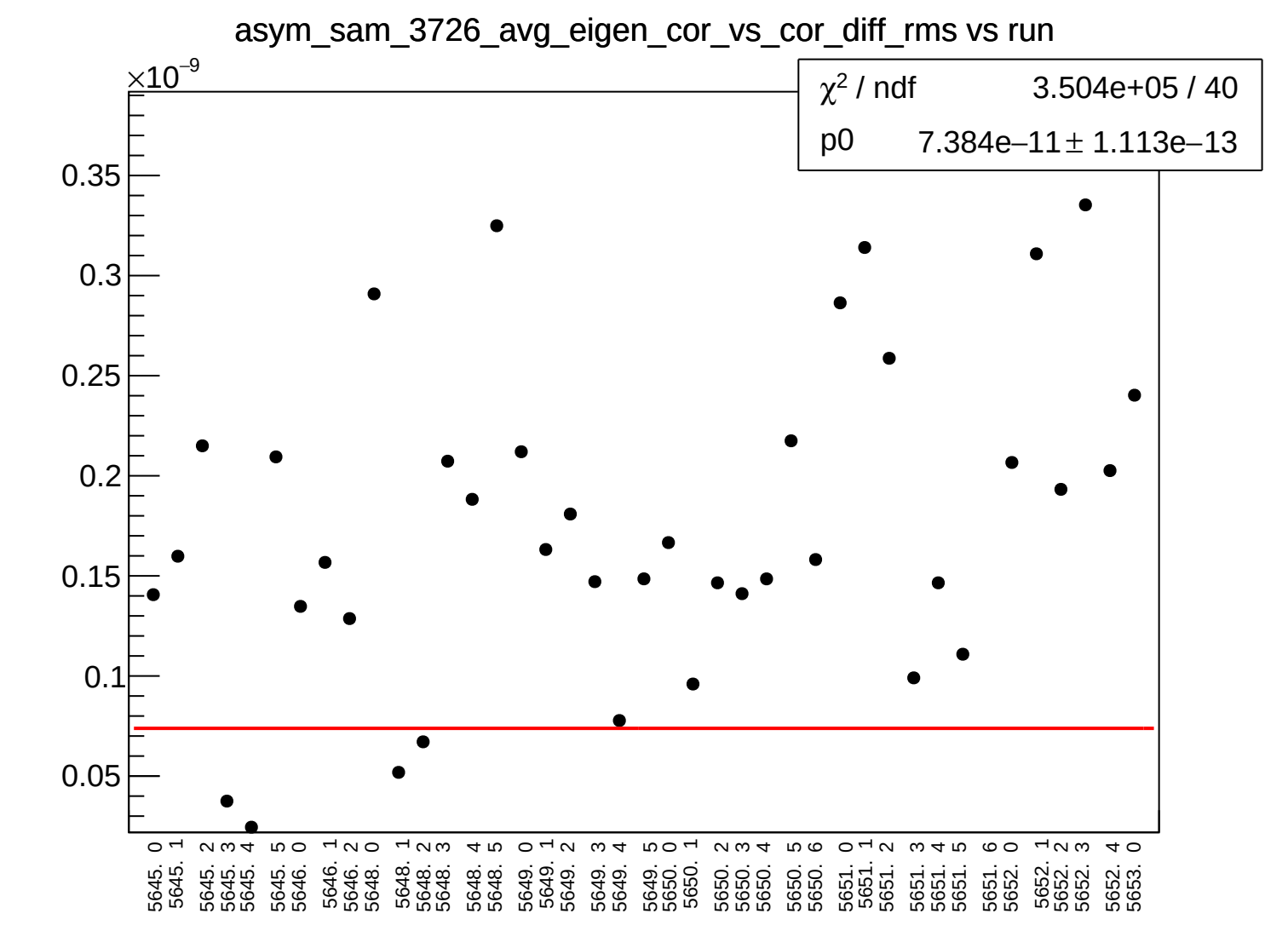

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.31 / 40
p0 −0.1299 ± 0.1559
pull
Entries 41
Mean 9.637
Std Dev 17.79

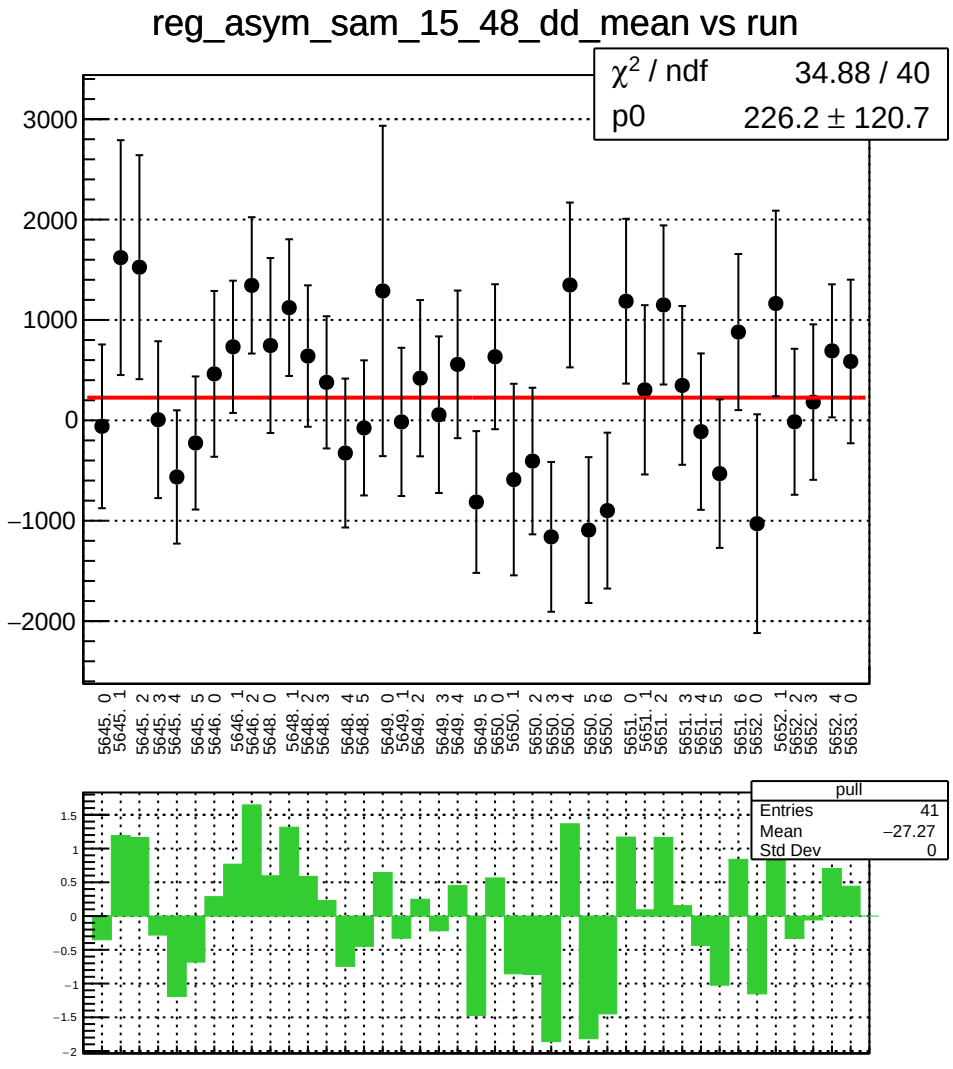

pull1D
Entries 41
Mean −0.03
Std Dev 1.027

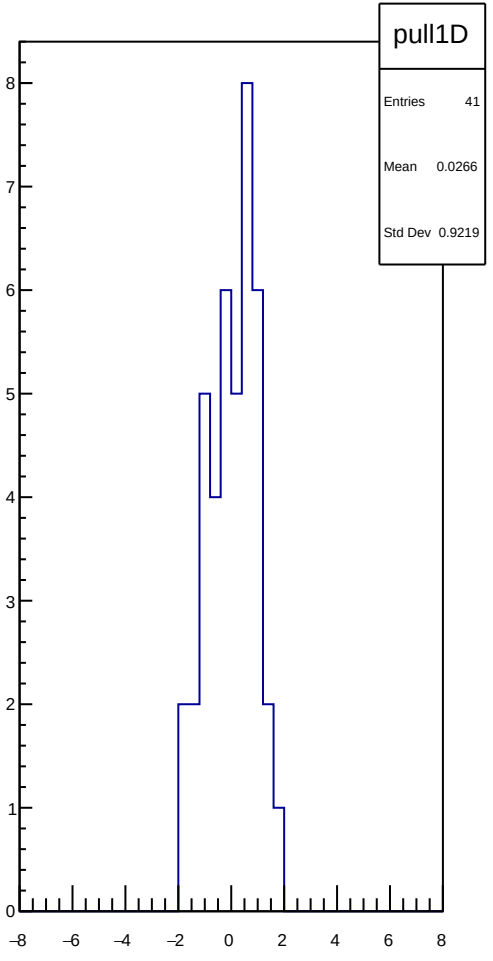

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.628e+04 / 40
p0 94.46 ± 0.1103
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

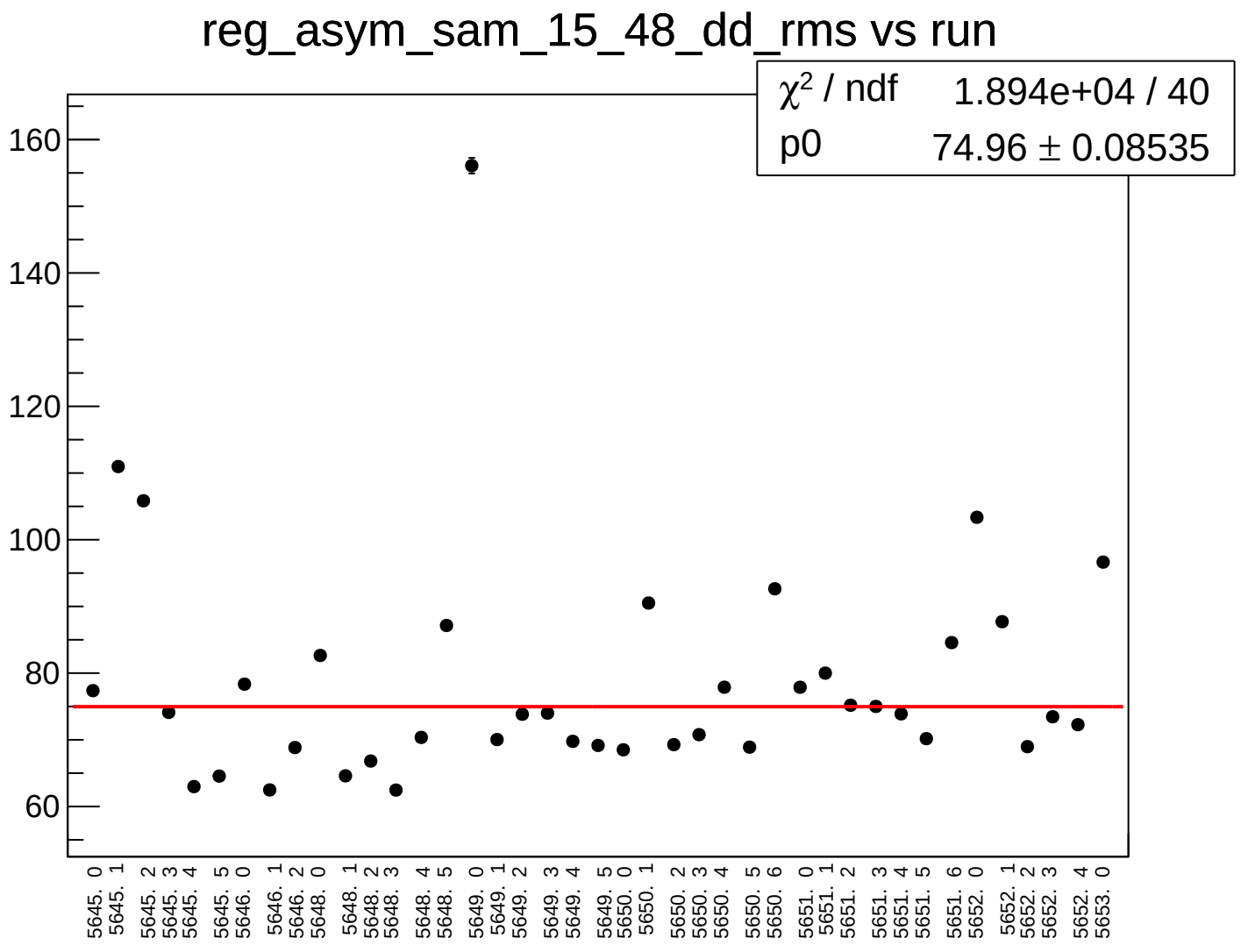

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.22 / 40
p0 1.728e−13 ± 1.574e−13
pull
Entries 41
Mean 26.16
Std Dev 17.75

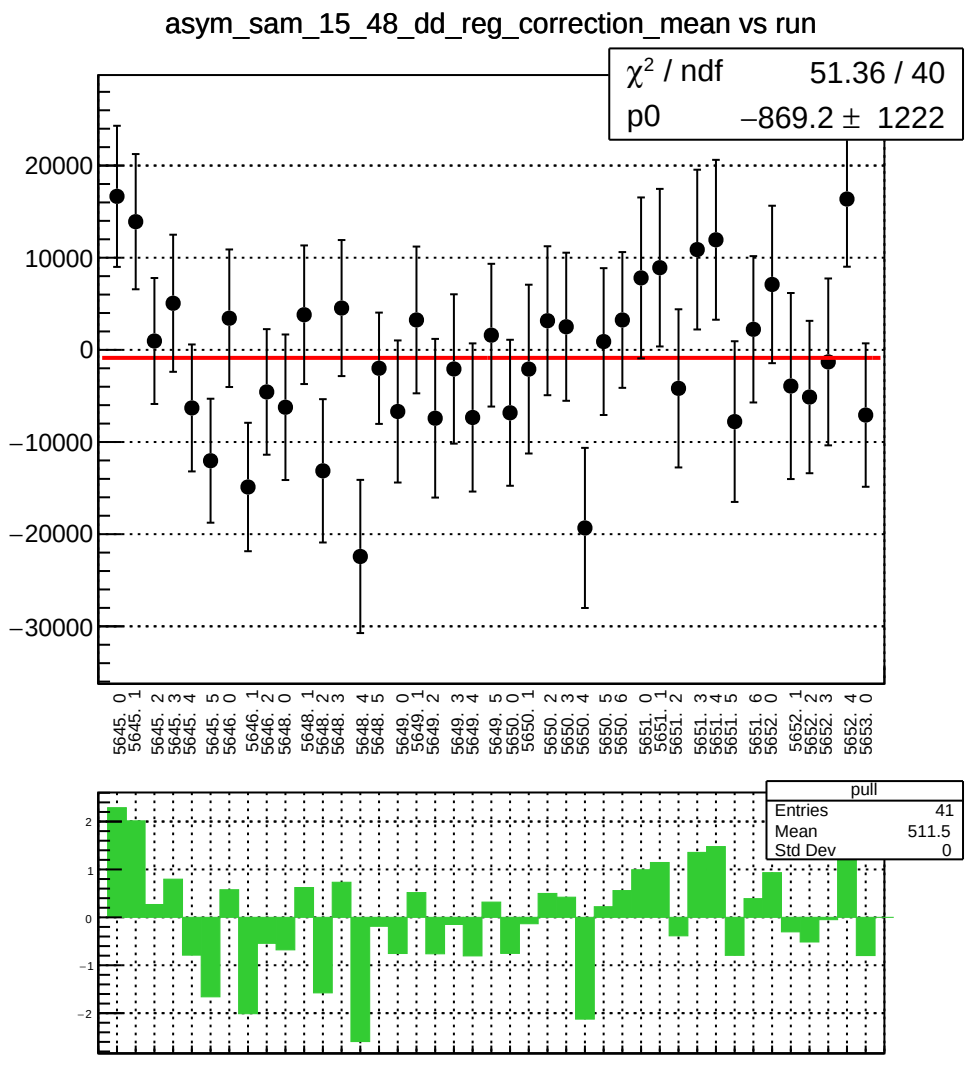

pull1D
Entries 41
Mean 0.06136
Std Dev 1.037

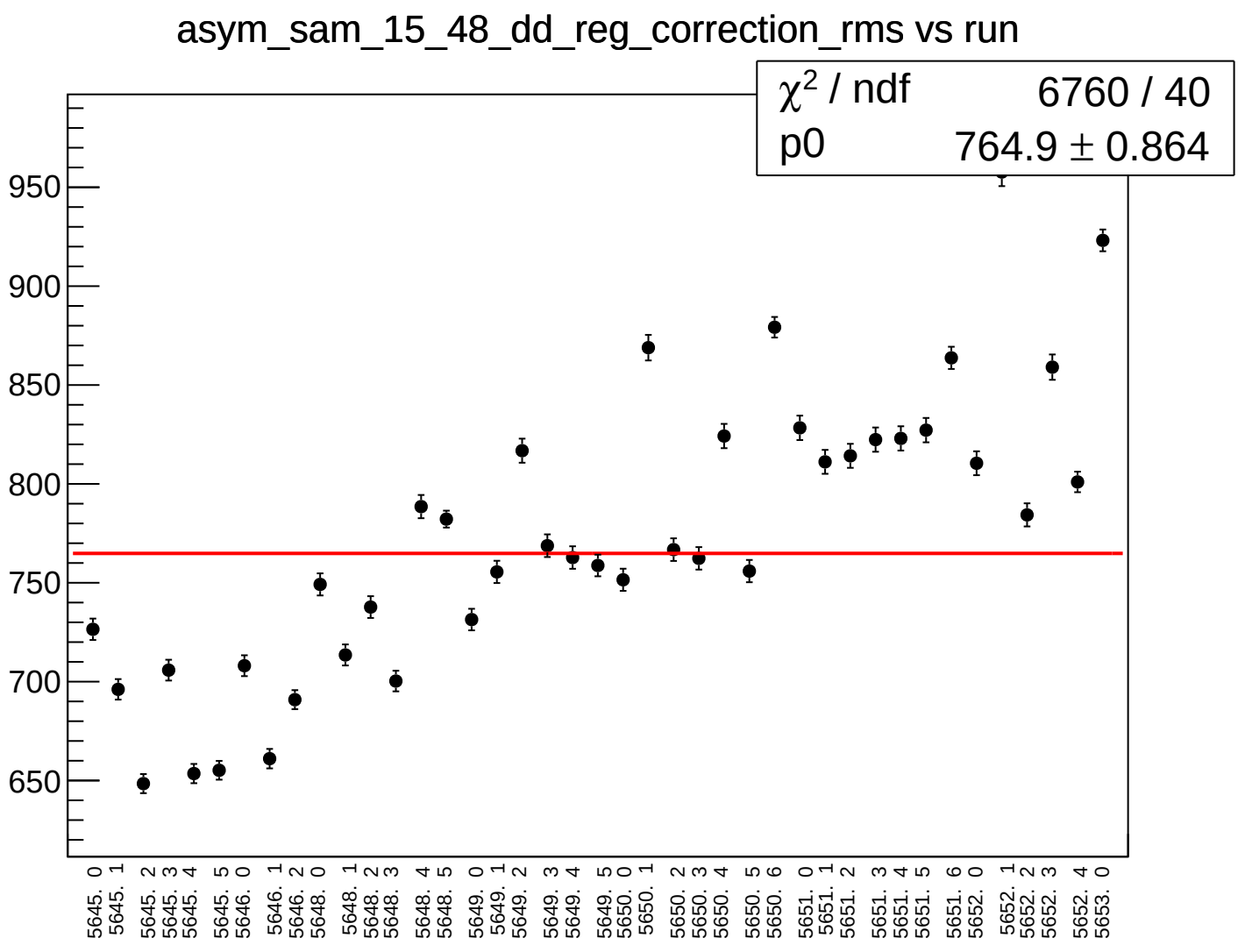

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.504e+05 / 40
p0 7.384e−11 ± 1.113e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

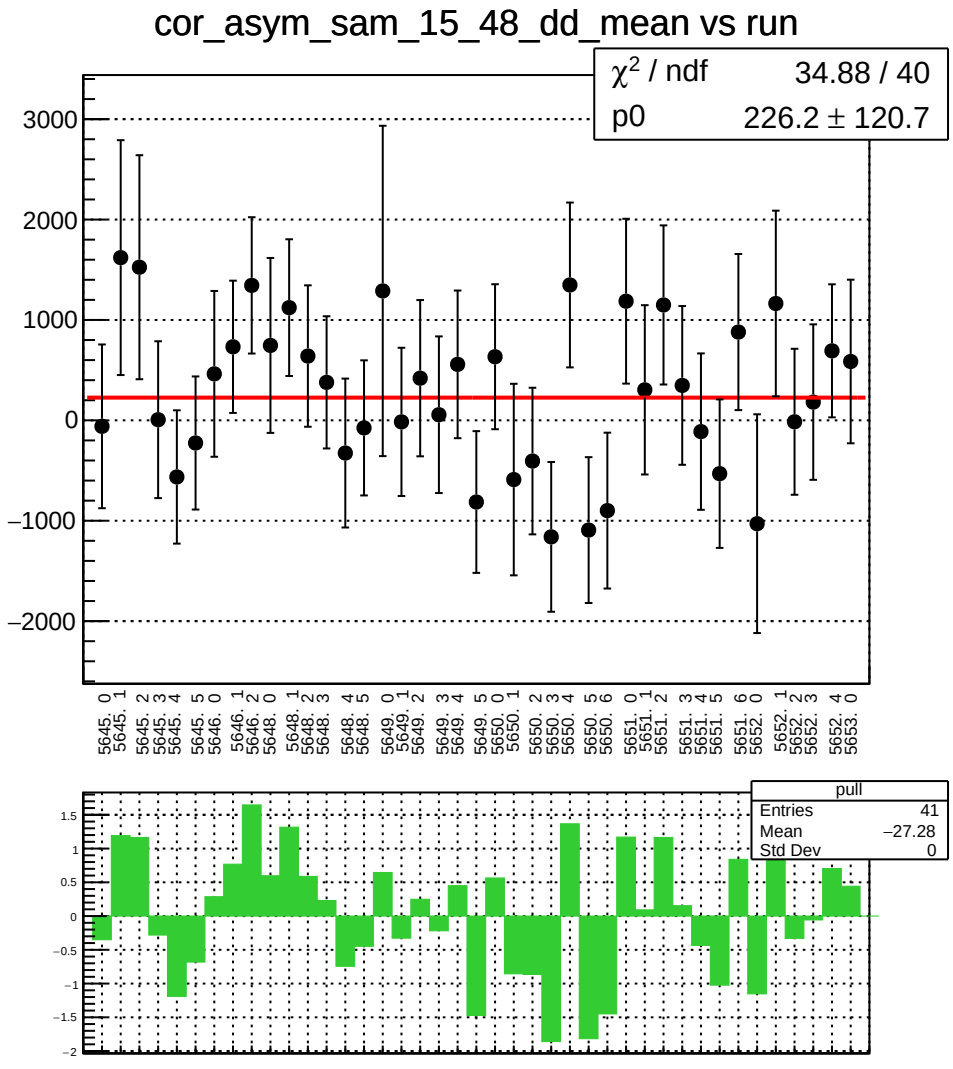

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 34.88 / 40
p0 226.2 ± 120.7
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −27.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

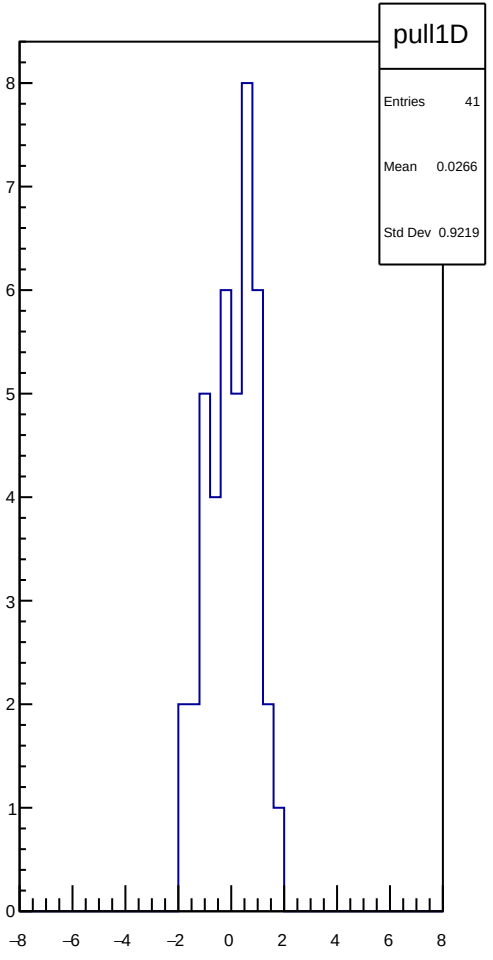

pull1D
Entries 41
Mean 0.0266
Std Dev 0.9219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

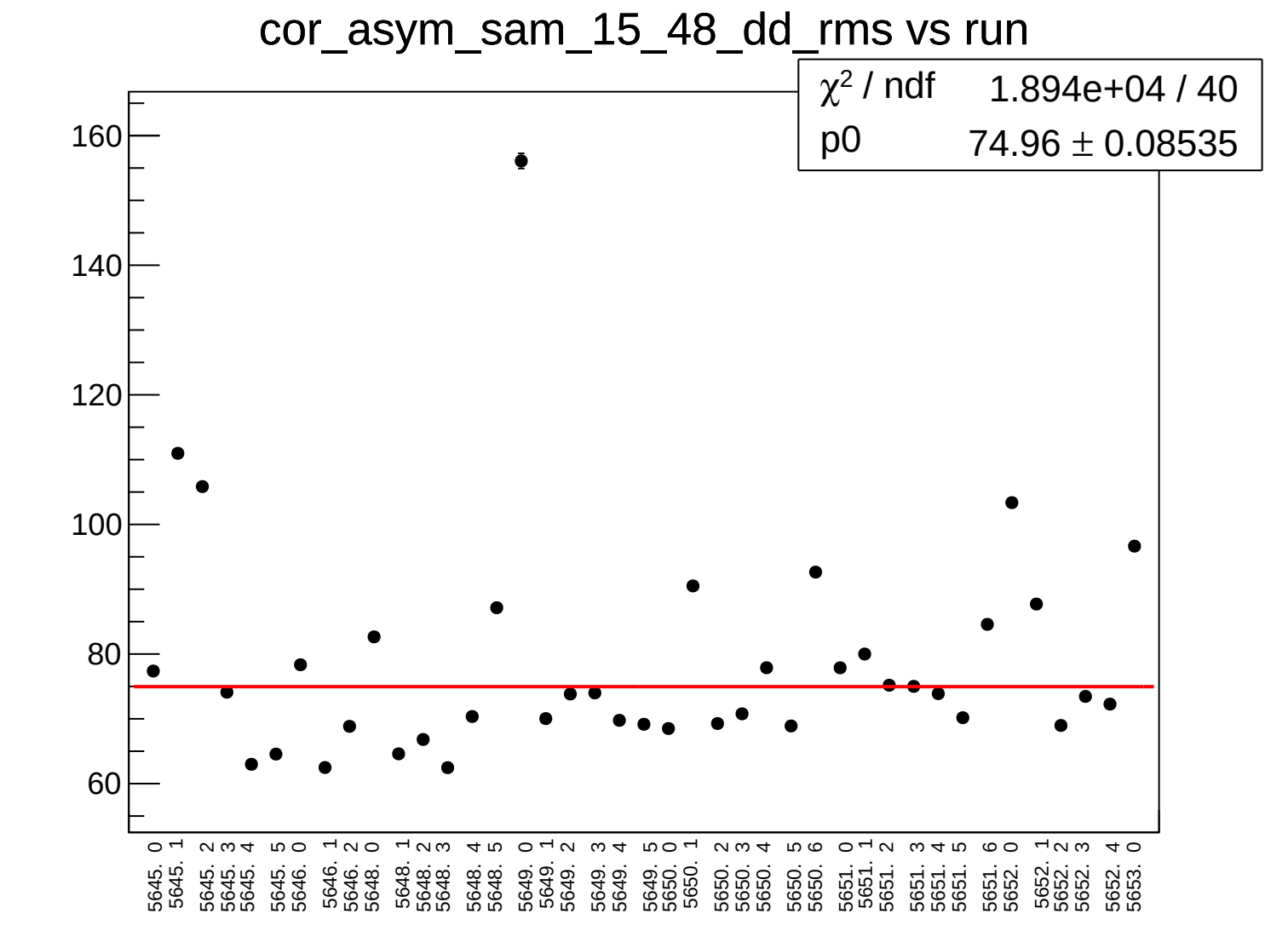

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.894e+04 / 40
p0 74.96 ± 0.08535
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

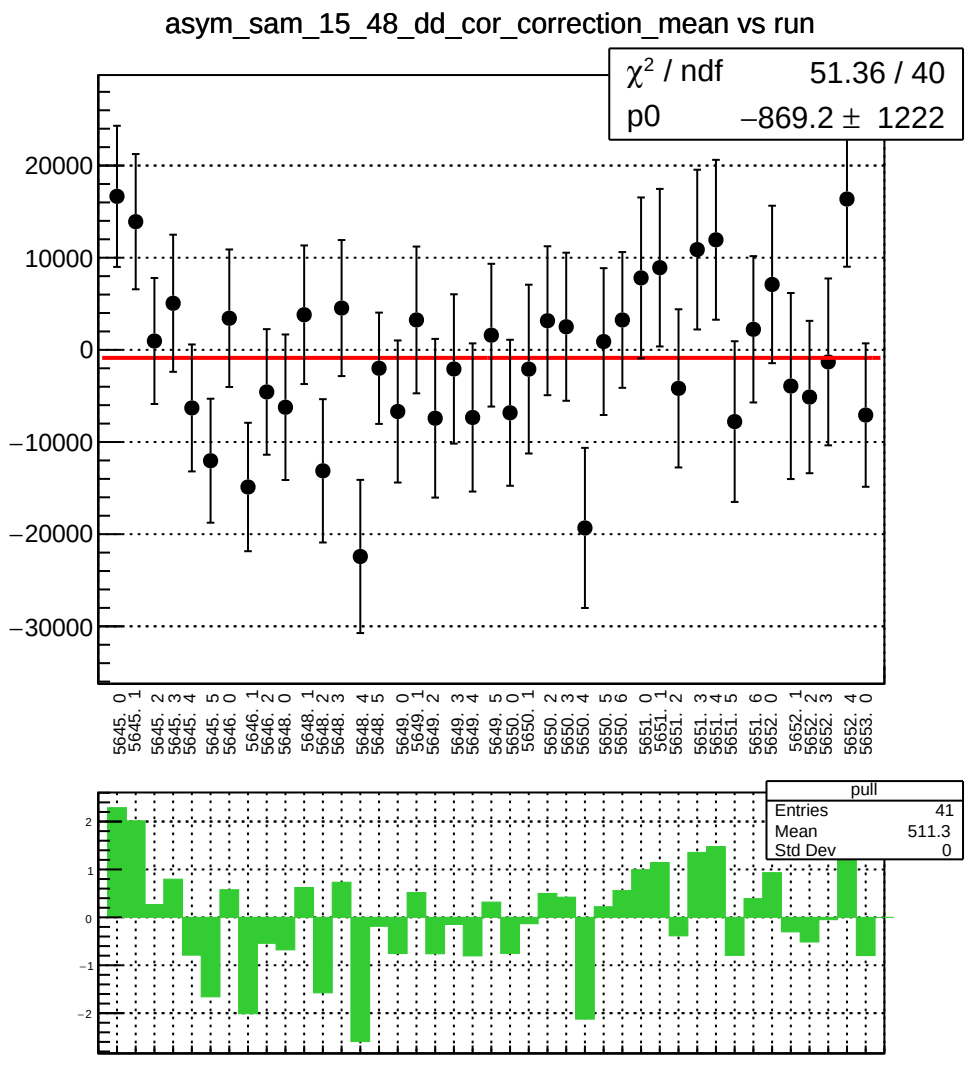

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 51.36 / 40
p0 −869.2 ± 1222
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 511.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.003018
Std Dev 1.119
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

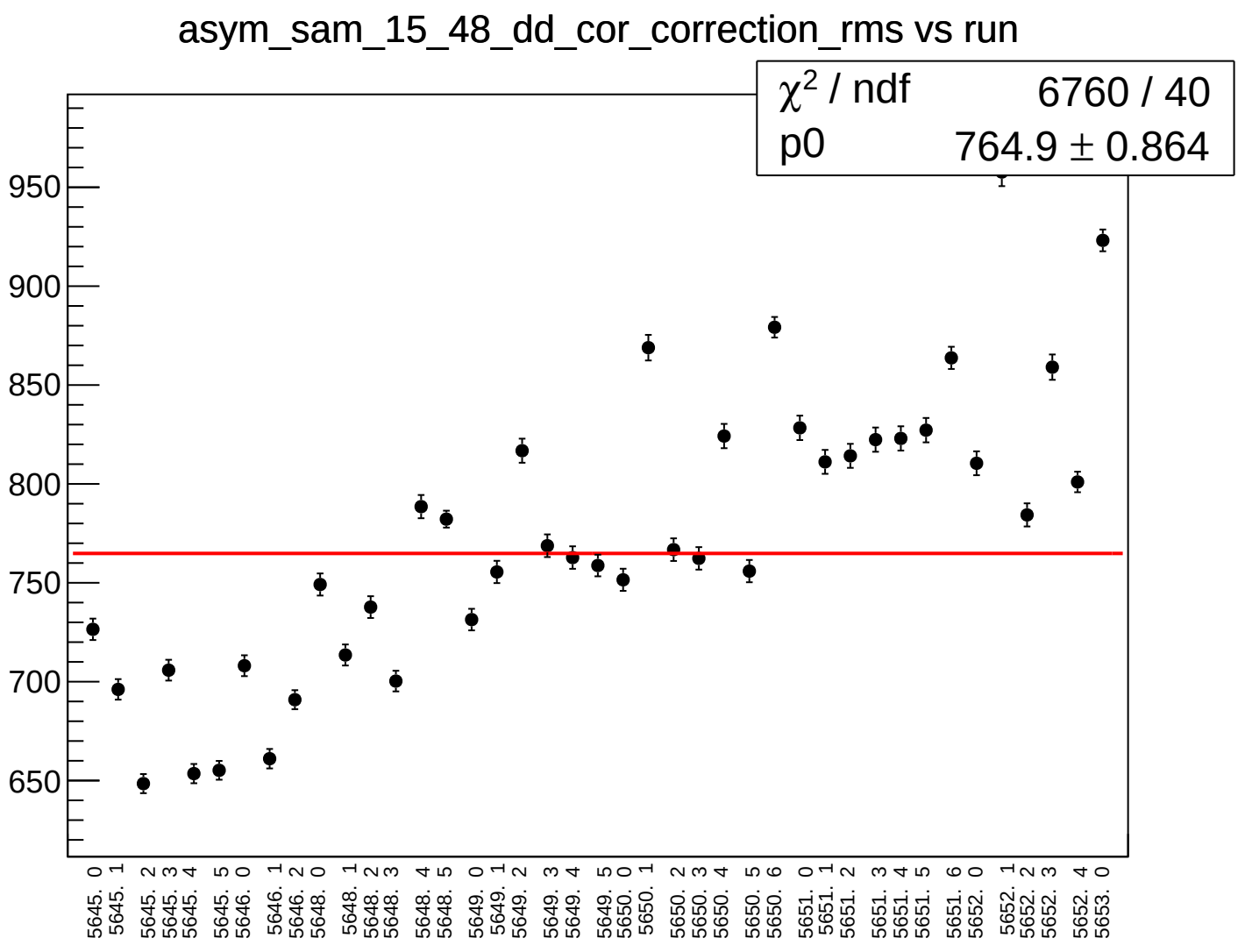

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 6760 / 40
p0 764.9 ± 0.864
950
900
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

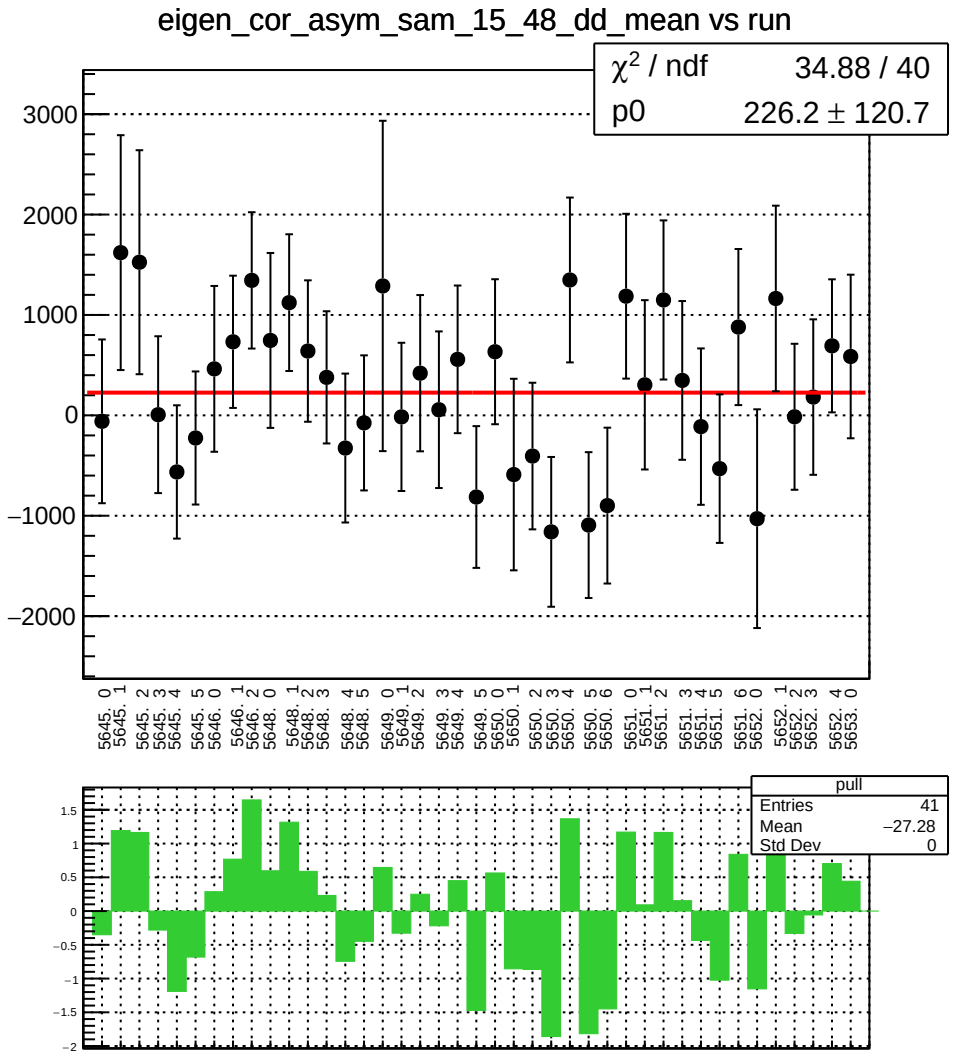

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 34.88 / 40
p0 226.2 ± 120.7
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −27.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

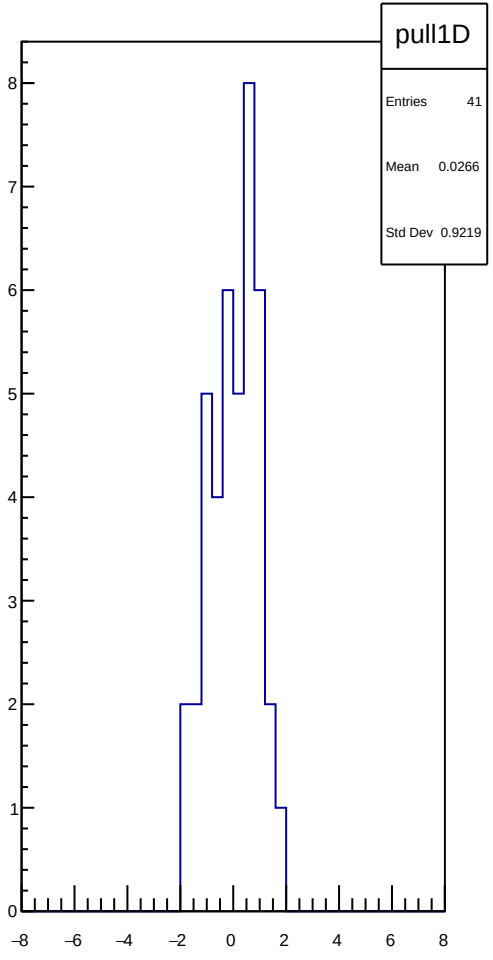

pull1D
Entries 41
Mean 0.0266
Std Dev 0.9219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

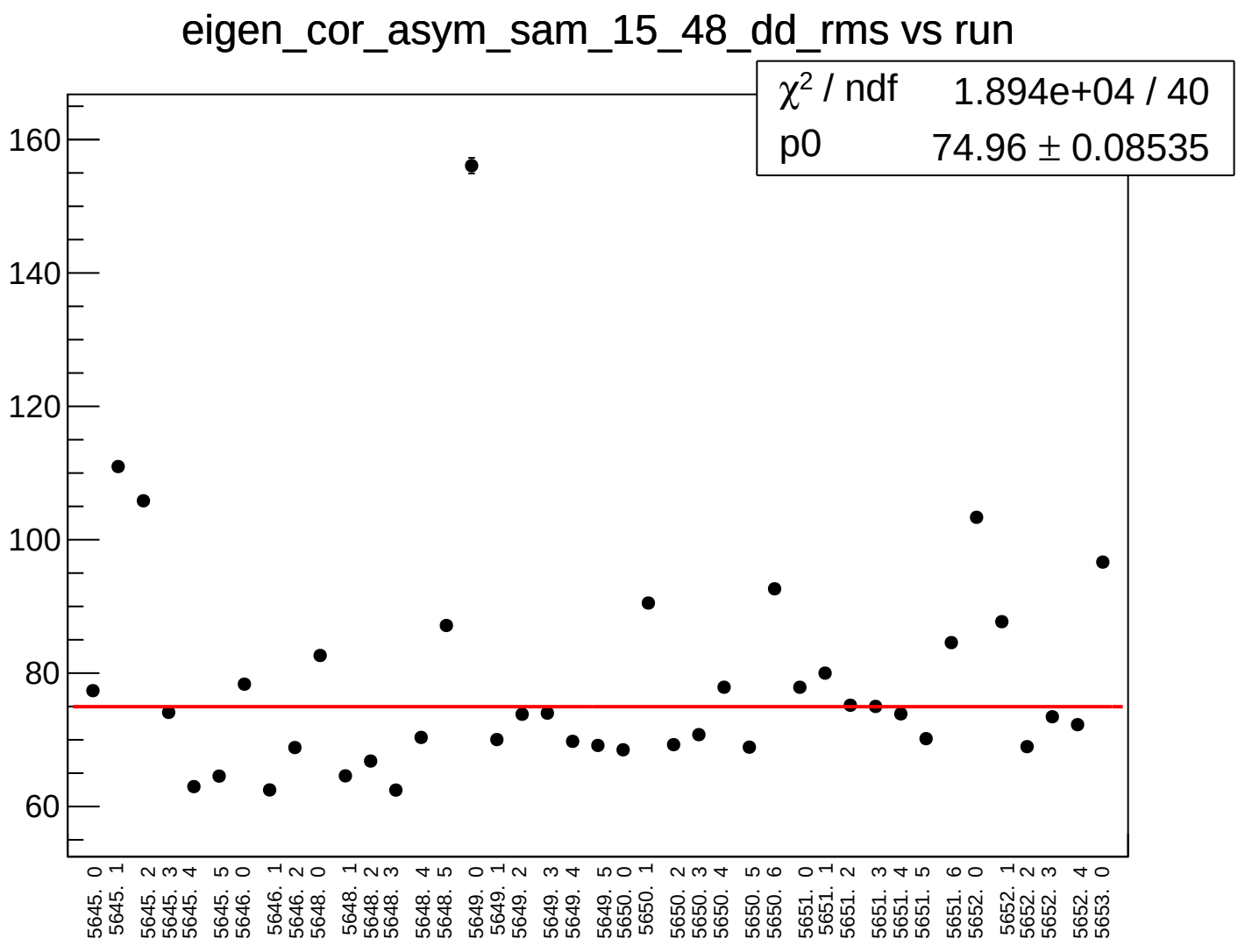

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.894e+04 / 40
p0 74.96 ± 0.08535
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 51.36 / 40
p0 −869.2 ± 1222
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 511.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.003019
Std Dev 1.119
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

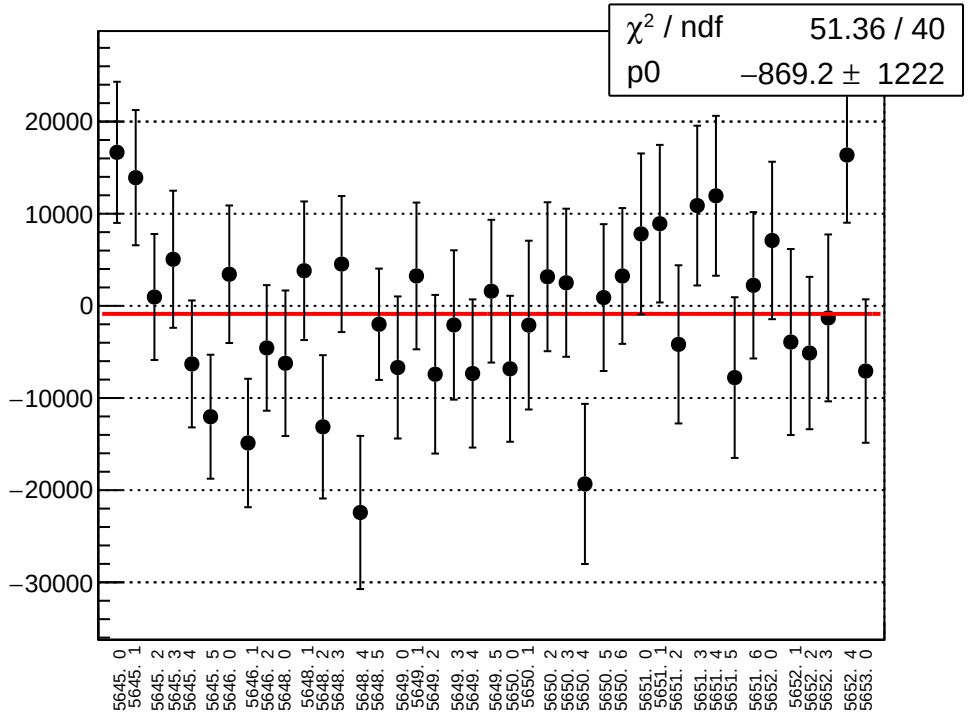

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 6760 / 40
p0 764.9 ± 0.864
950
900
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

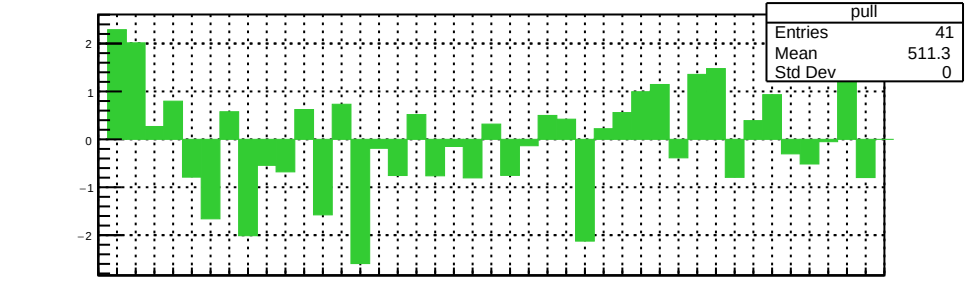

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 34.88 / 40
p0 226.2 ± 120.7
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −27.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

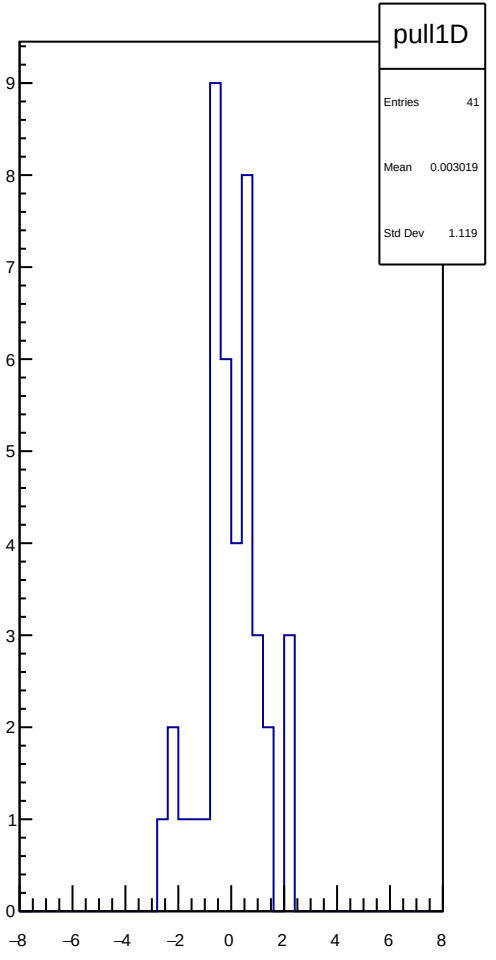

pull1D
Entries 41
Mean 0.0266
Std Dev 0.9219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

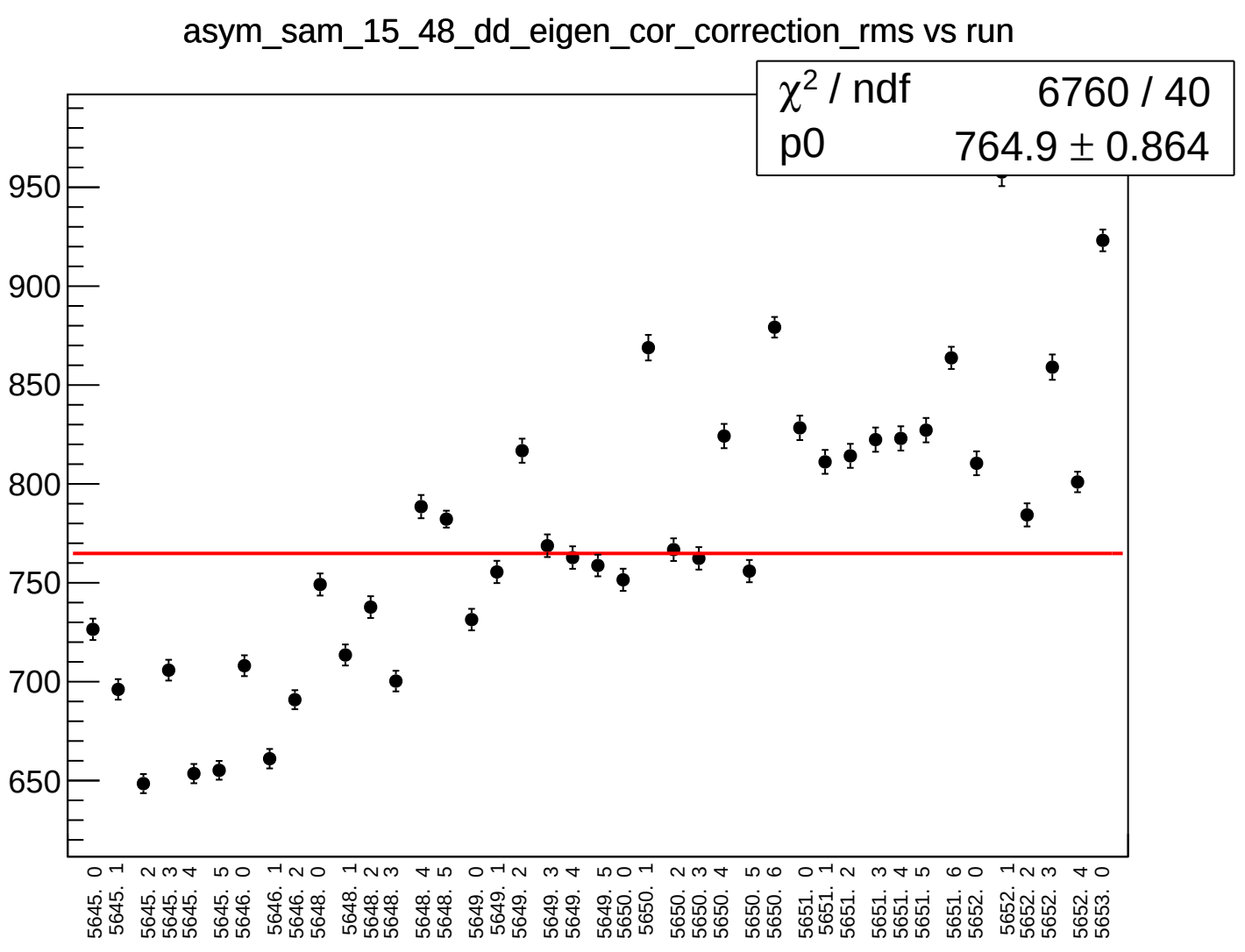

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.894e+04 / 40
p0 74.96 ± 0.08535
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

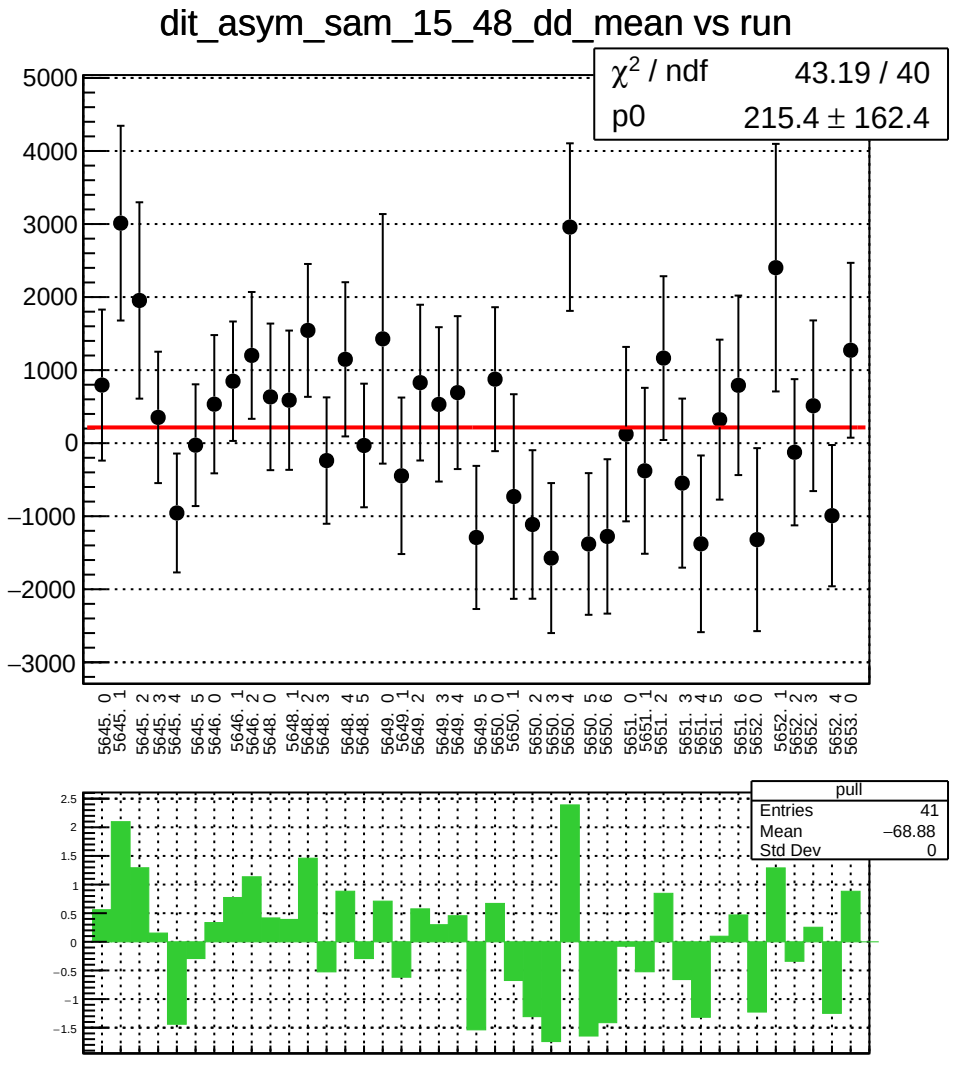
asym_sam_15_48_dd_eigen_cor_correction_mean vs run

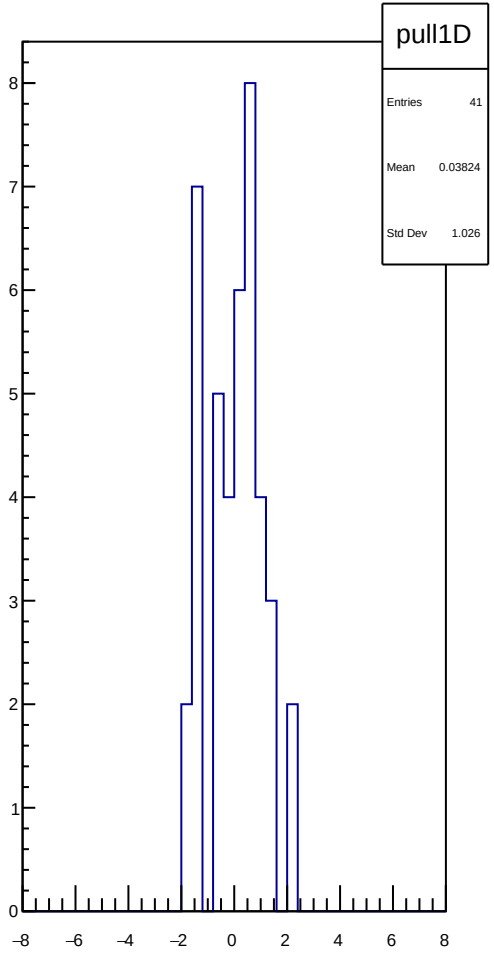


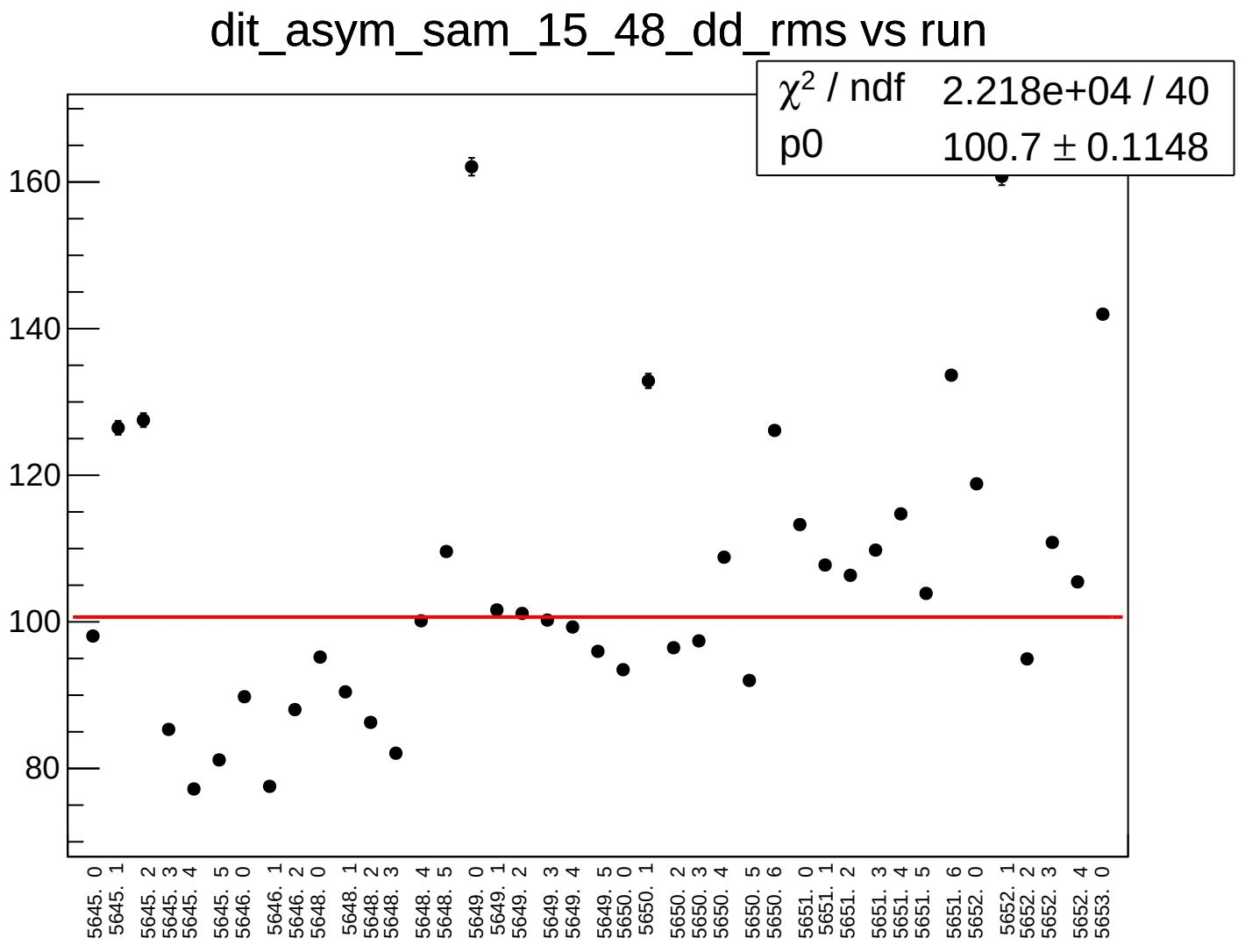


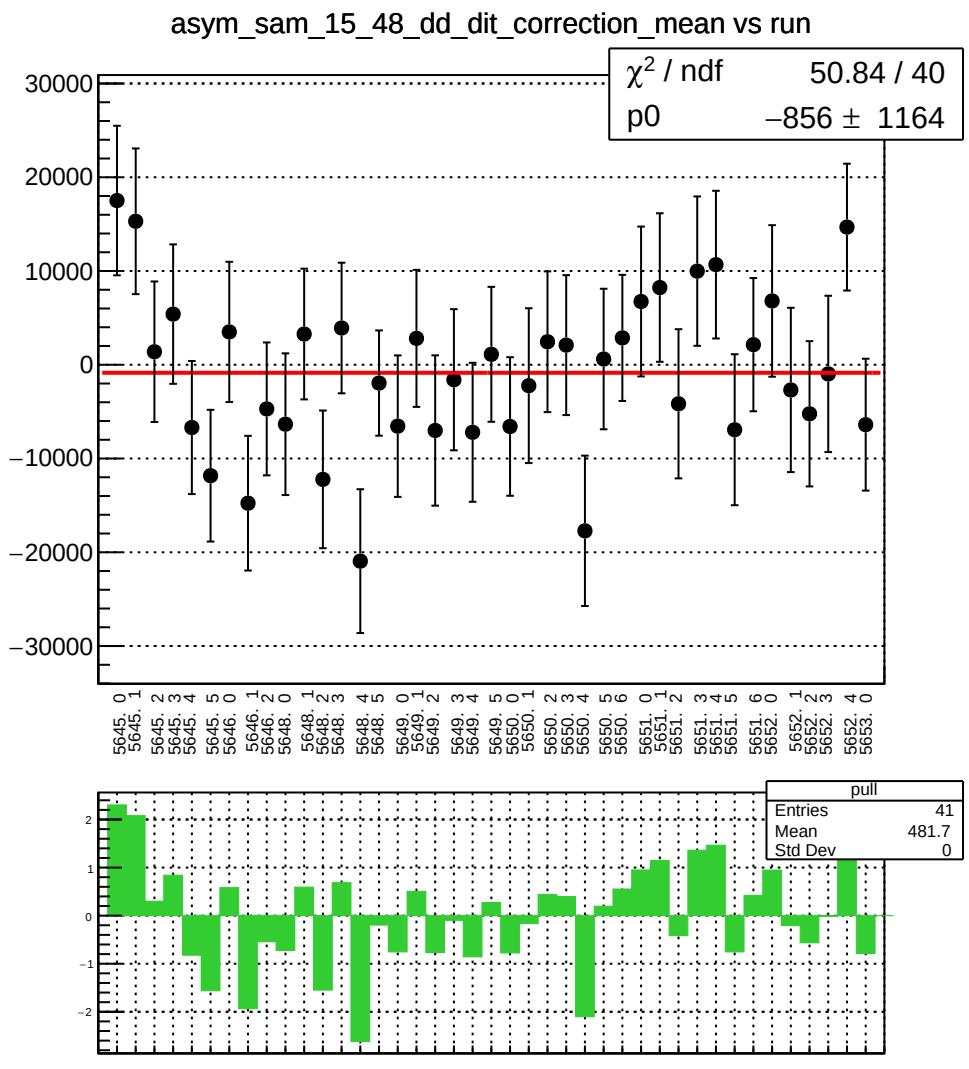


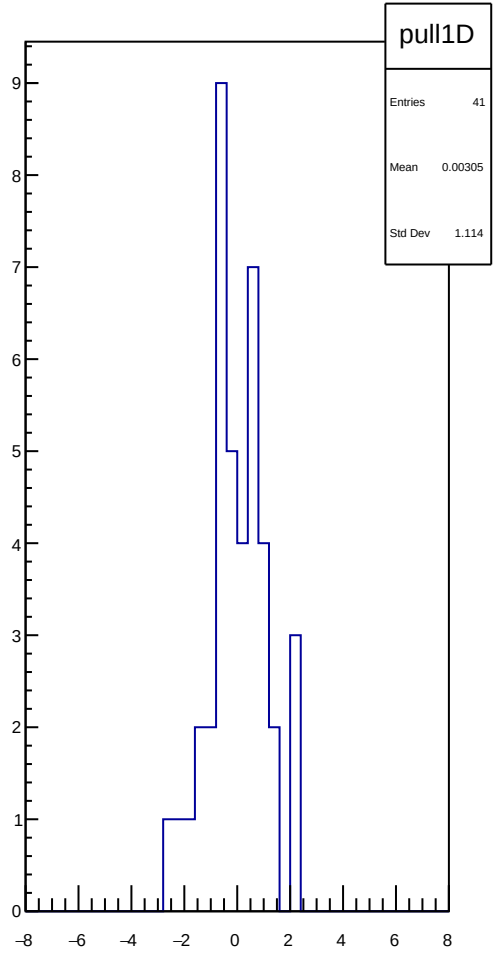

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6760 / 40
p0 764.9 ± 0.864
950
900
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

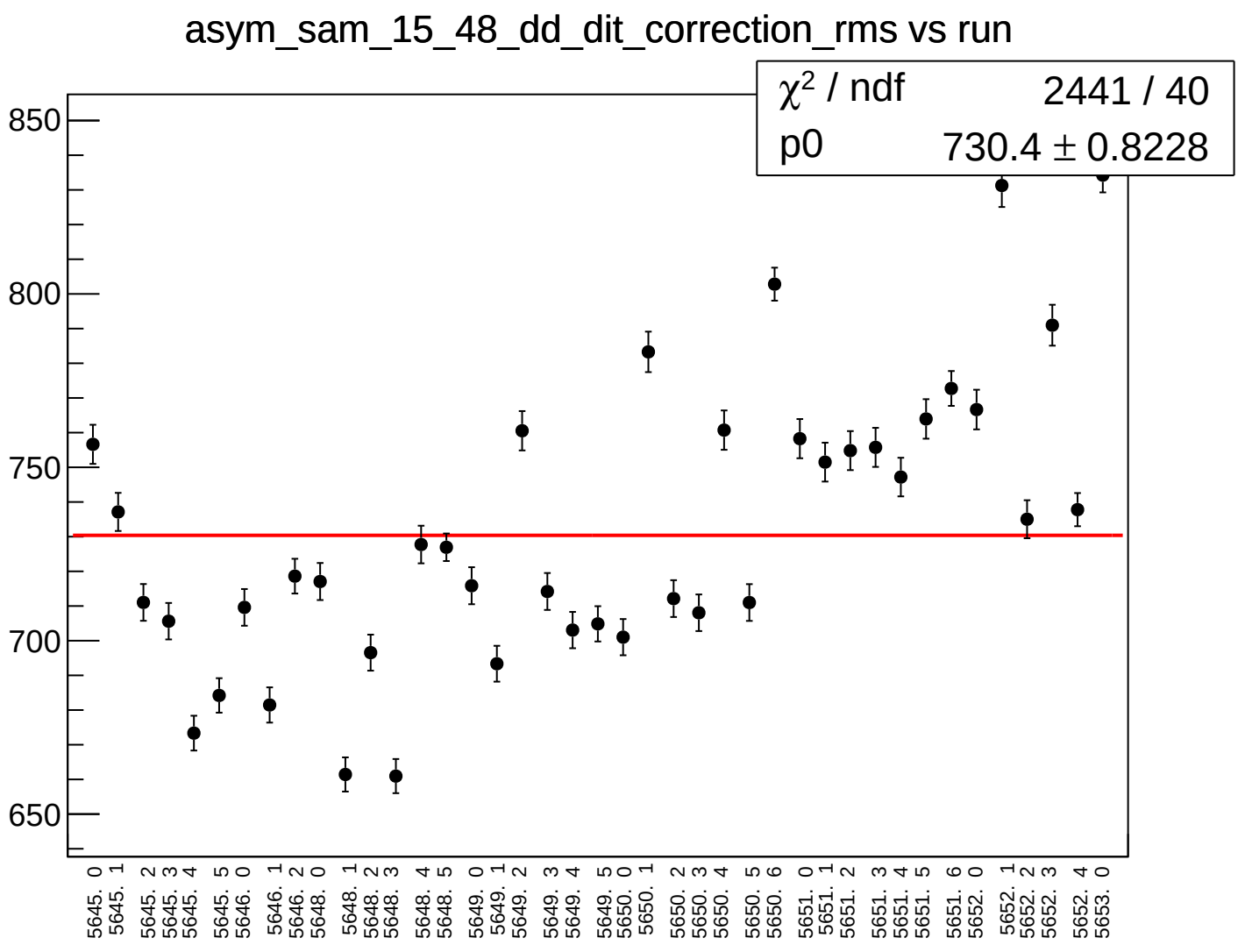

dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 43.19 / 40
p0 215.4 ± 162.4
pull
Entries 41
Mean −68.88
Std Dev 0

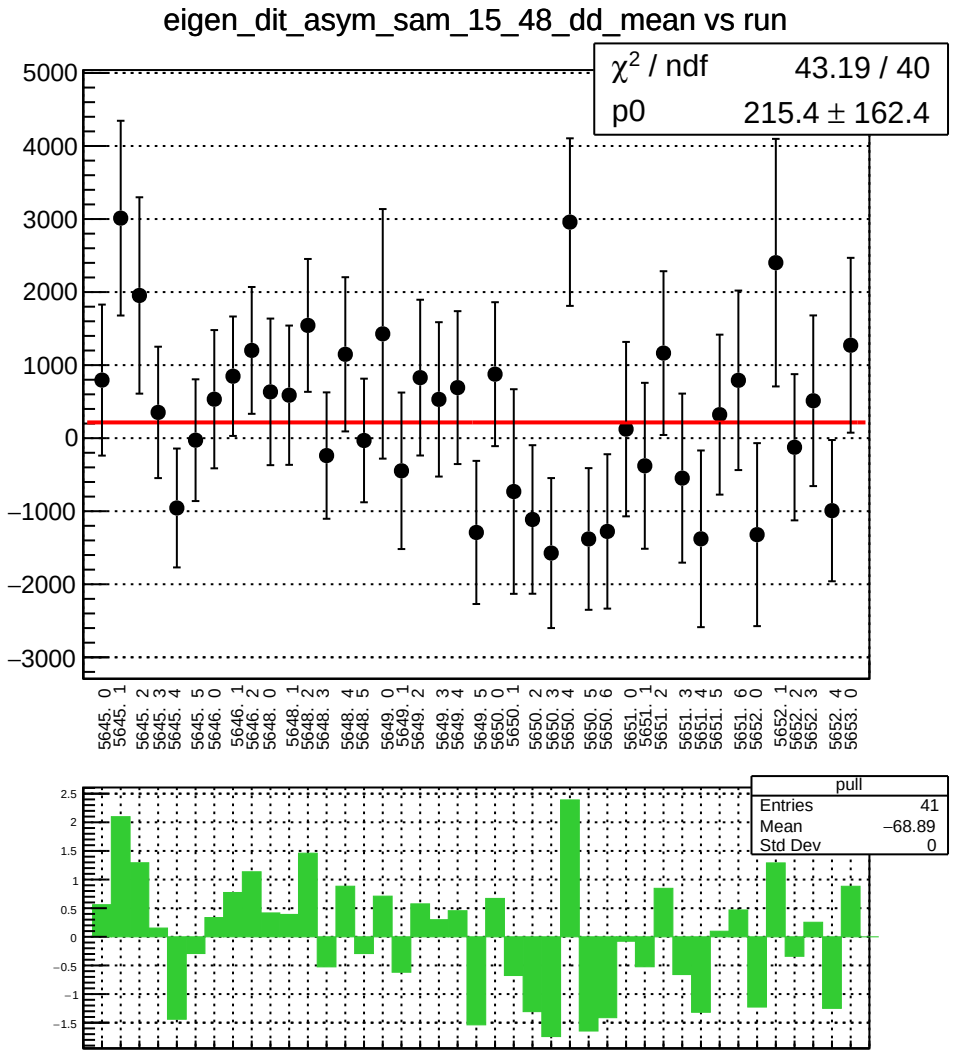

pull1D
Entries 41
Mean 0.03824
Std Dev 1.026

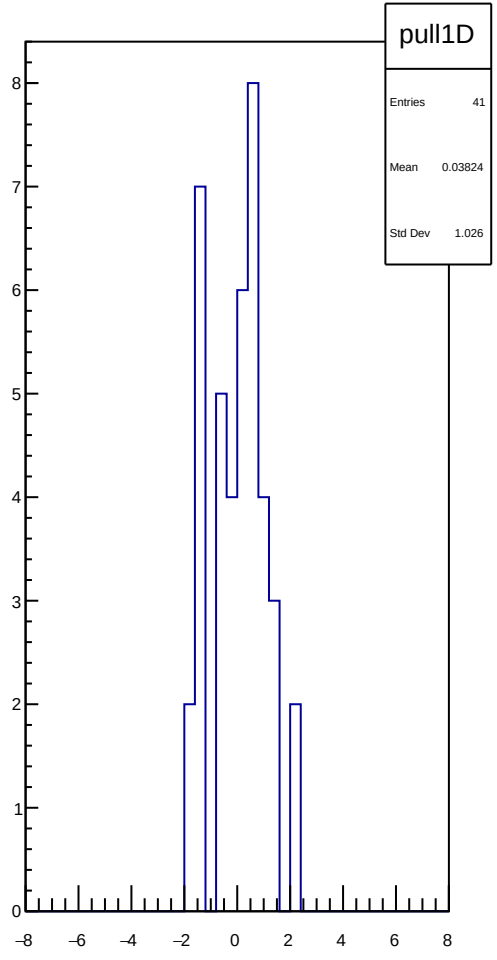

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.218e+04 / 40
p0 100.7 ± 0.1148
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

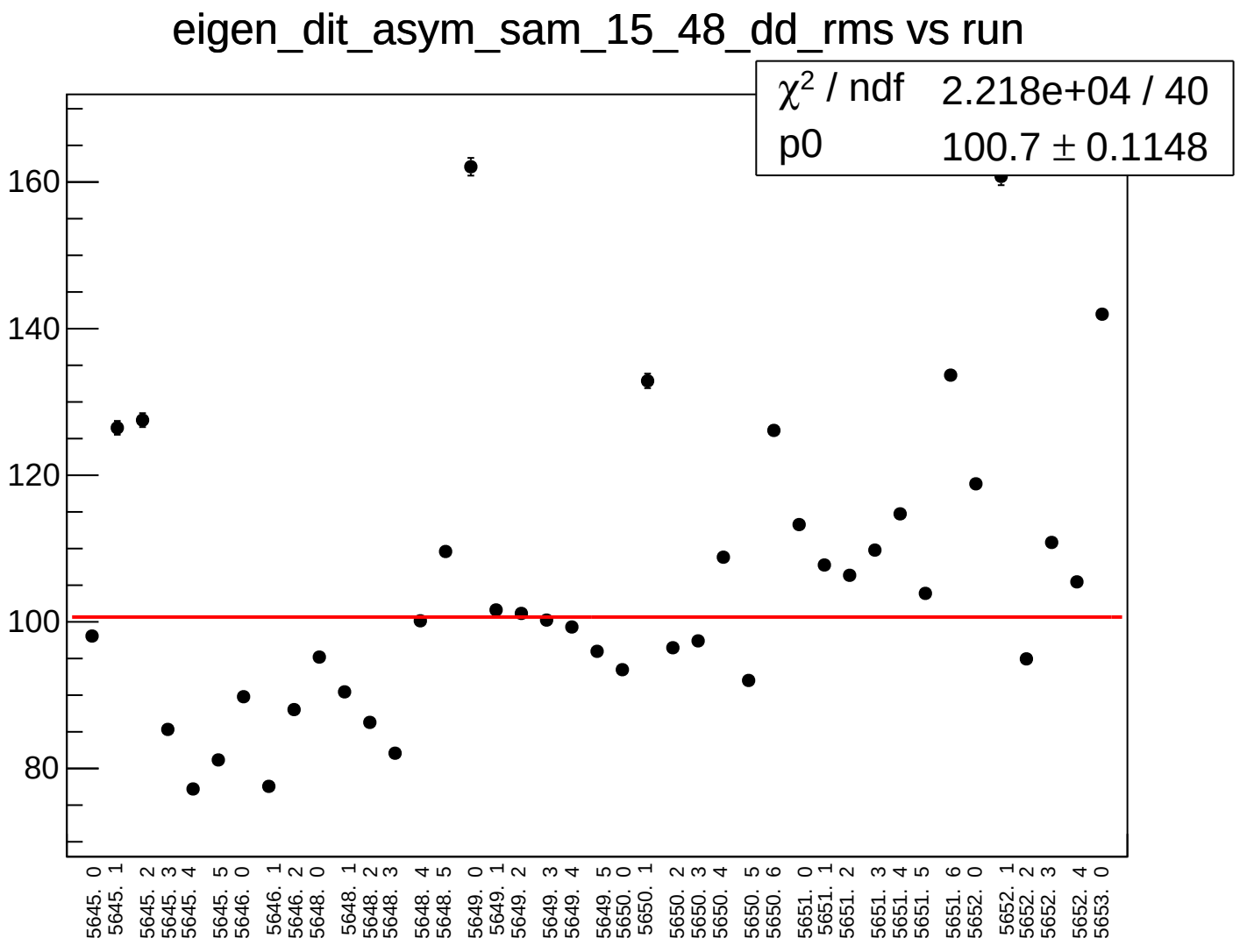

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 50.84 / 40
p0 −856 ± 1164
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 481.7
Std Dev 0
2
1
0
−1
−2

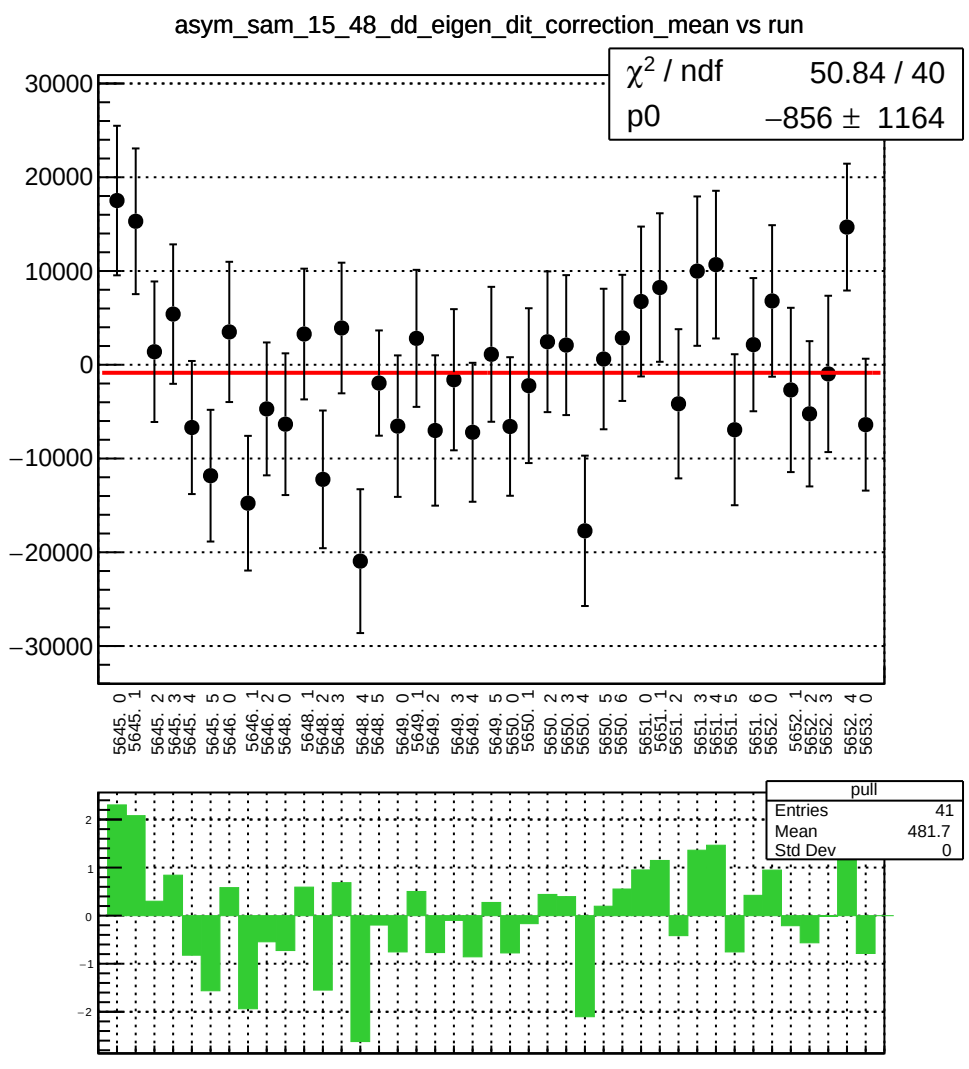

pull1D
Entries 41
Mean 0.00305
Std Dev 1.114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

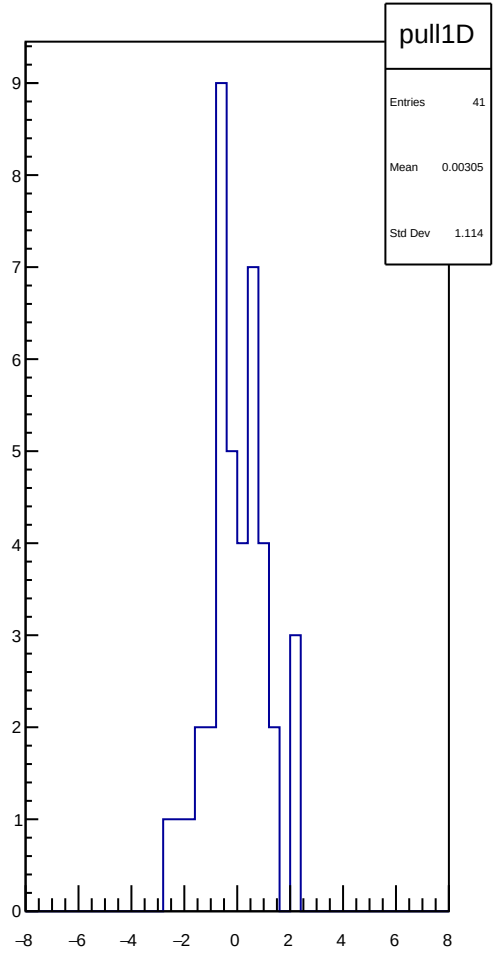

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2441 / 40
p0 730.4 ± 0.8228
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

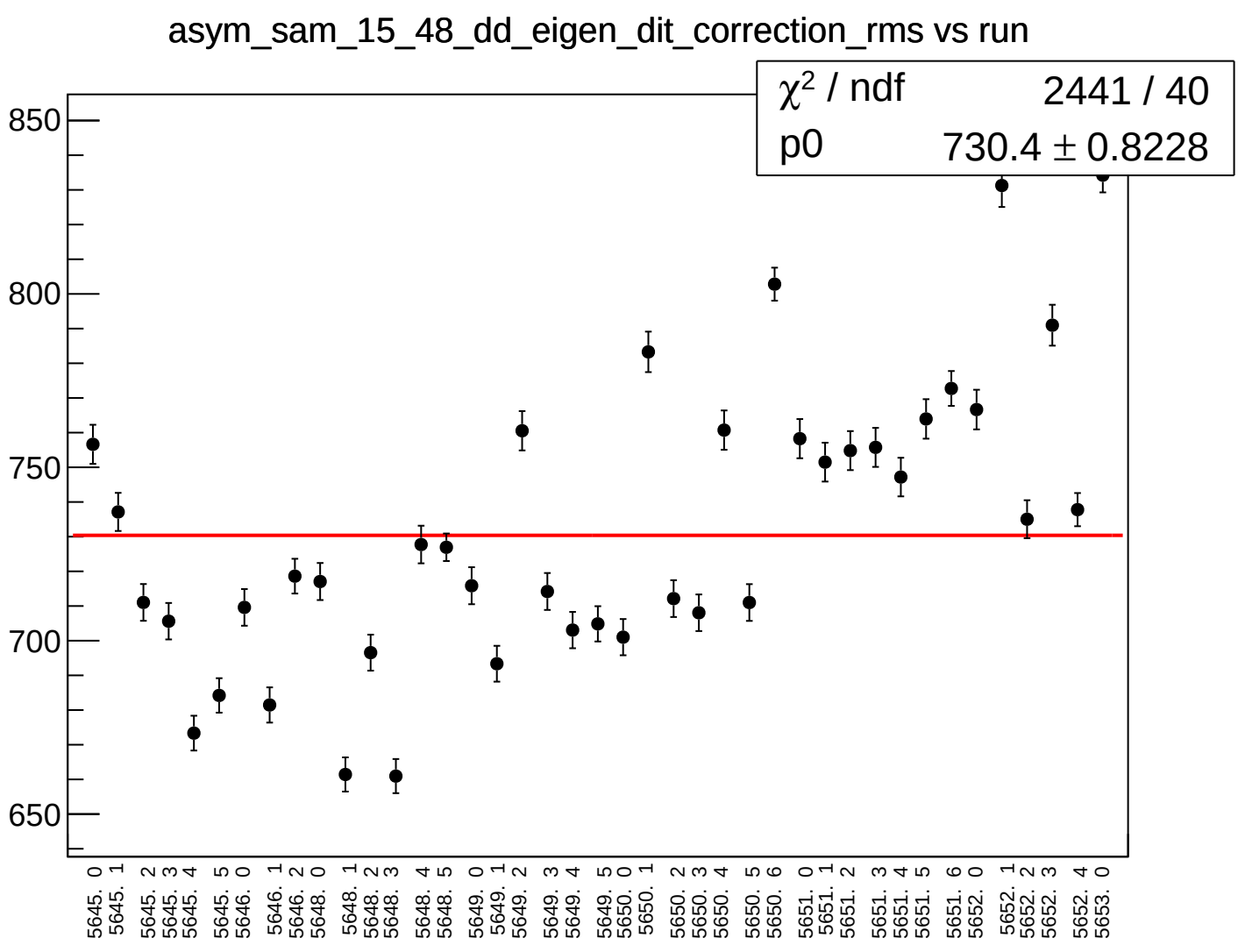

eigen_dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 43.19 / 40
p0 215.4 ± 162.4
pull
Entries 41
Mean −68.89
Std Dev 0

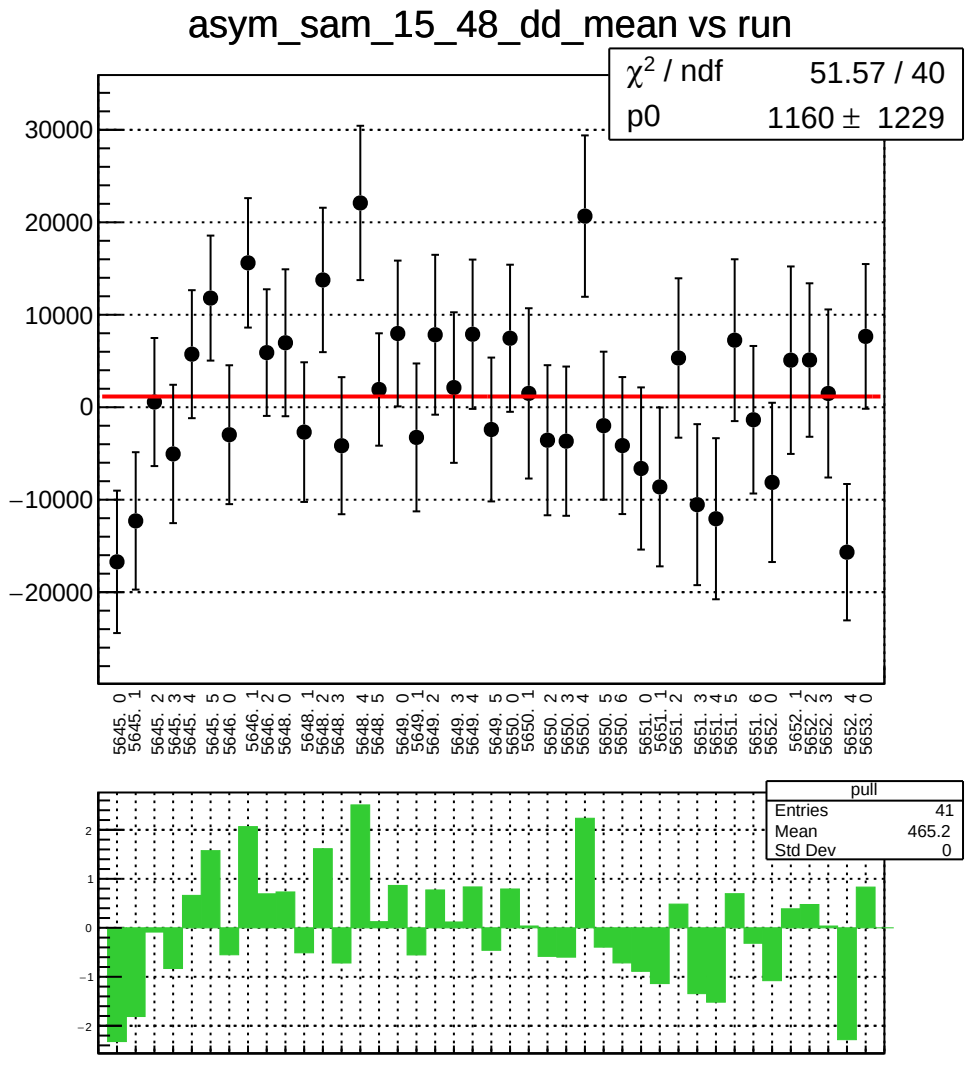

pull1D
Entries 41
Mean 0.03824
Std Dev 1.026

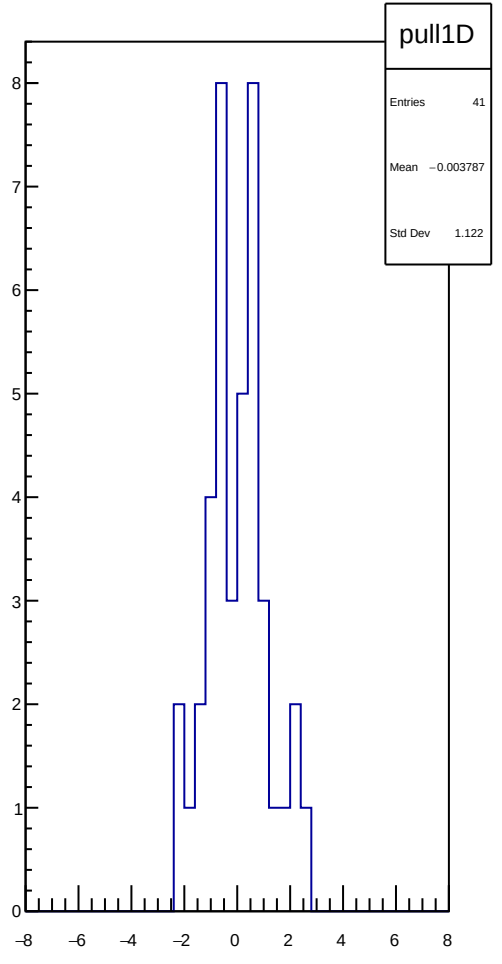

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.218e+04 / 40
p0 100.7 ± 0.1148
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

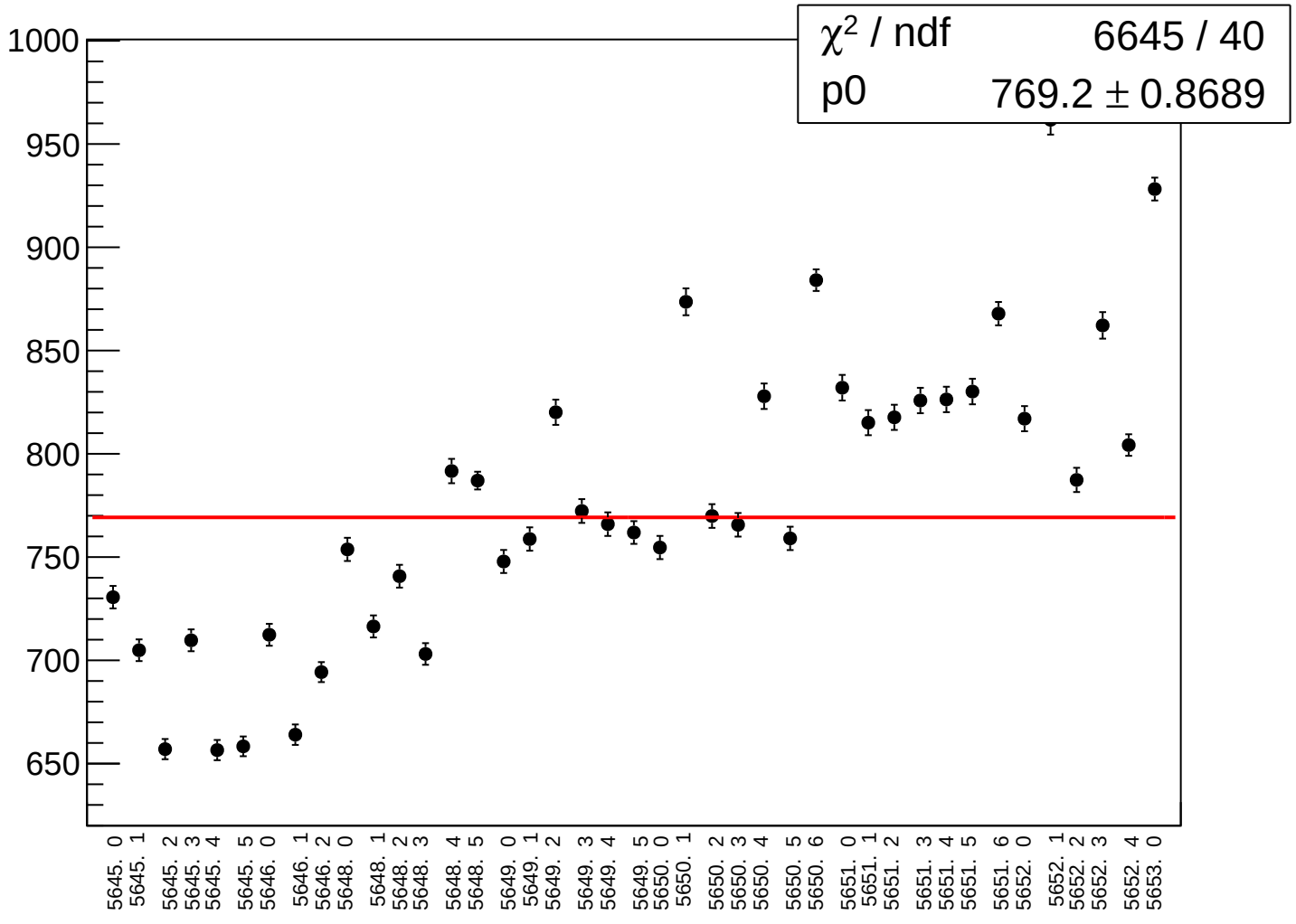

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.84 / 40
p0 −856 ± 1164
30000
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 481.7
Std Dev 0
2
1
0
−1
−2

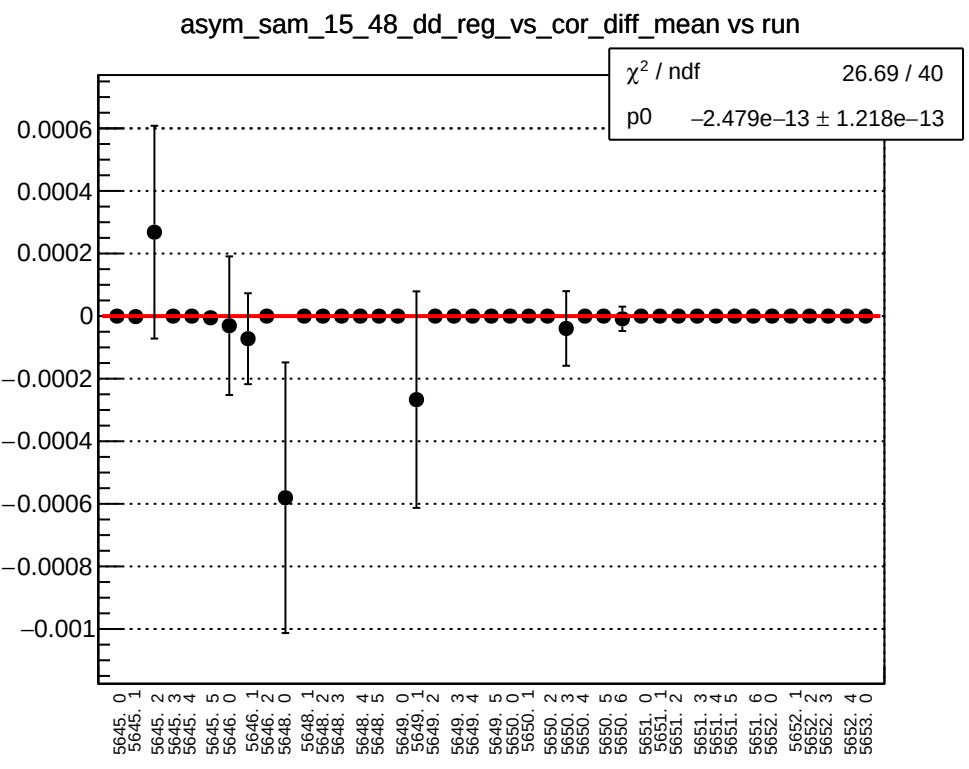

pull1D
Entries 41
Mean 0.00305
Std Dev 1.114
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

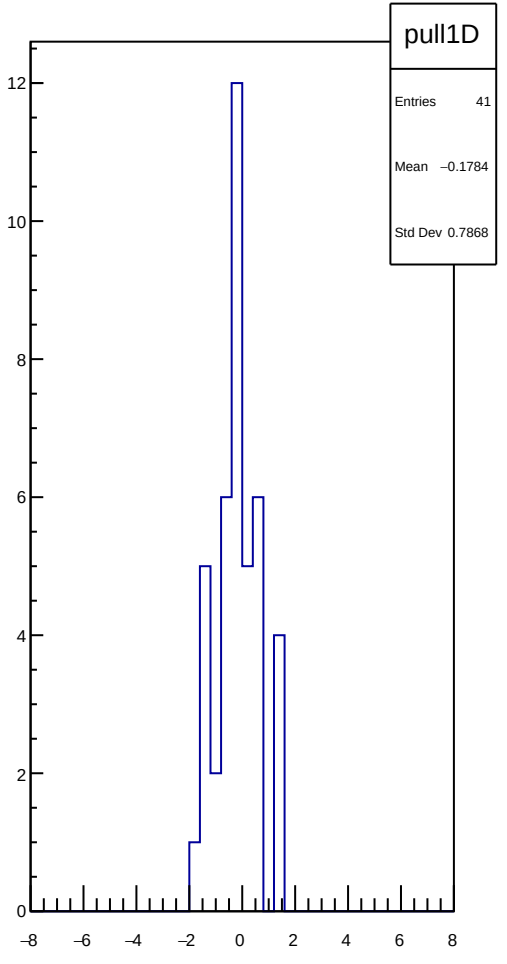

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2441 / 40
p0 730.4 ± 0.8228
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

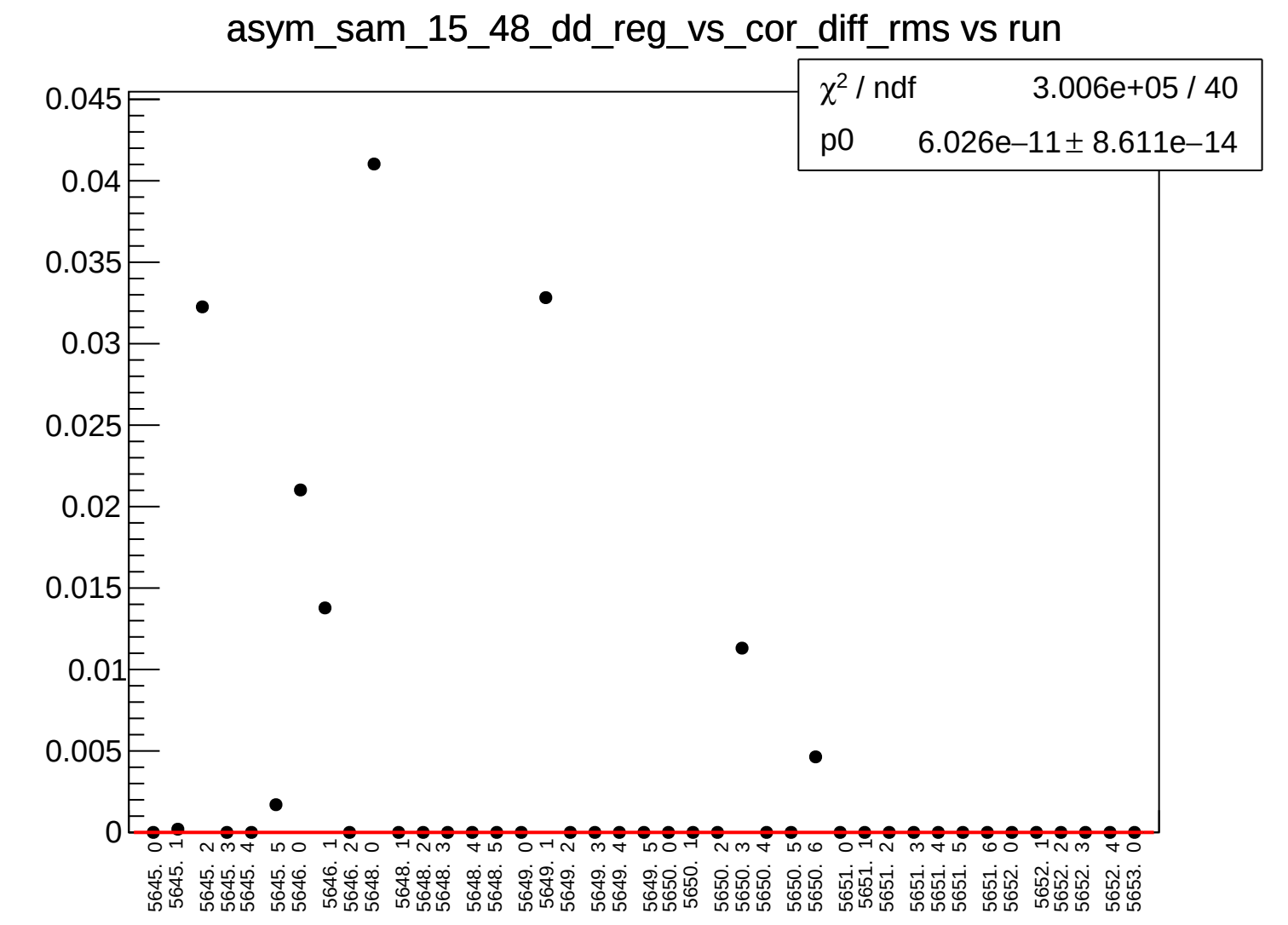

asym_sam_15_48_dd_mean vs run
χ² / ndf 51.57 / 40
p0 1160 ± 1229
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 465.2
Std Dev 0
2
1
0
−1
−2

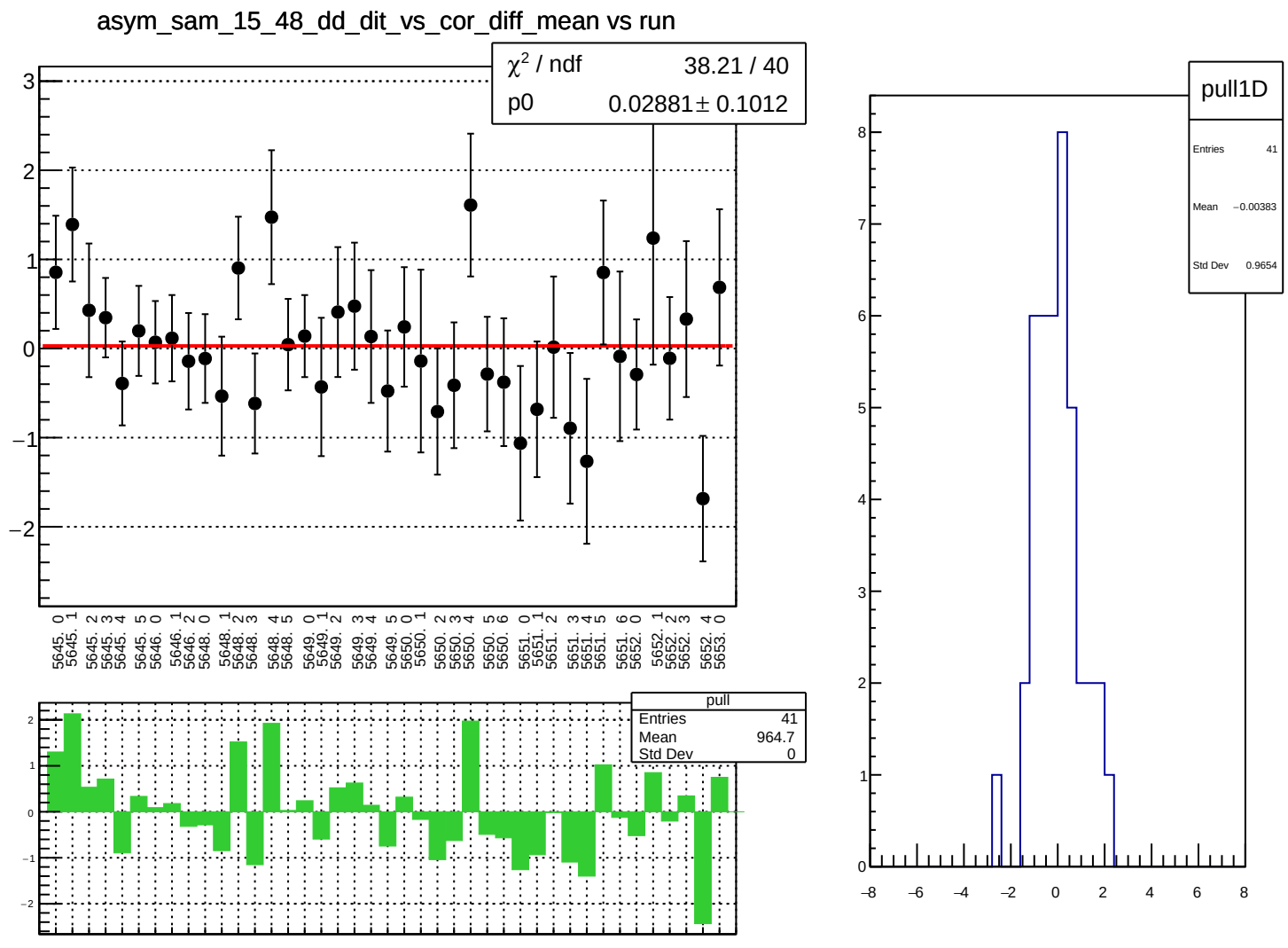

pull1D
Entries 41
Mean −0.003787
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

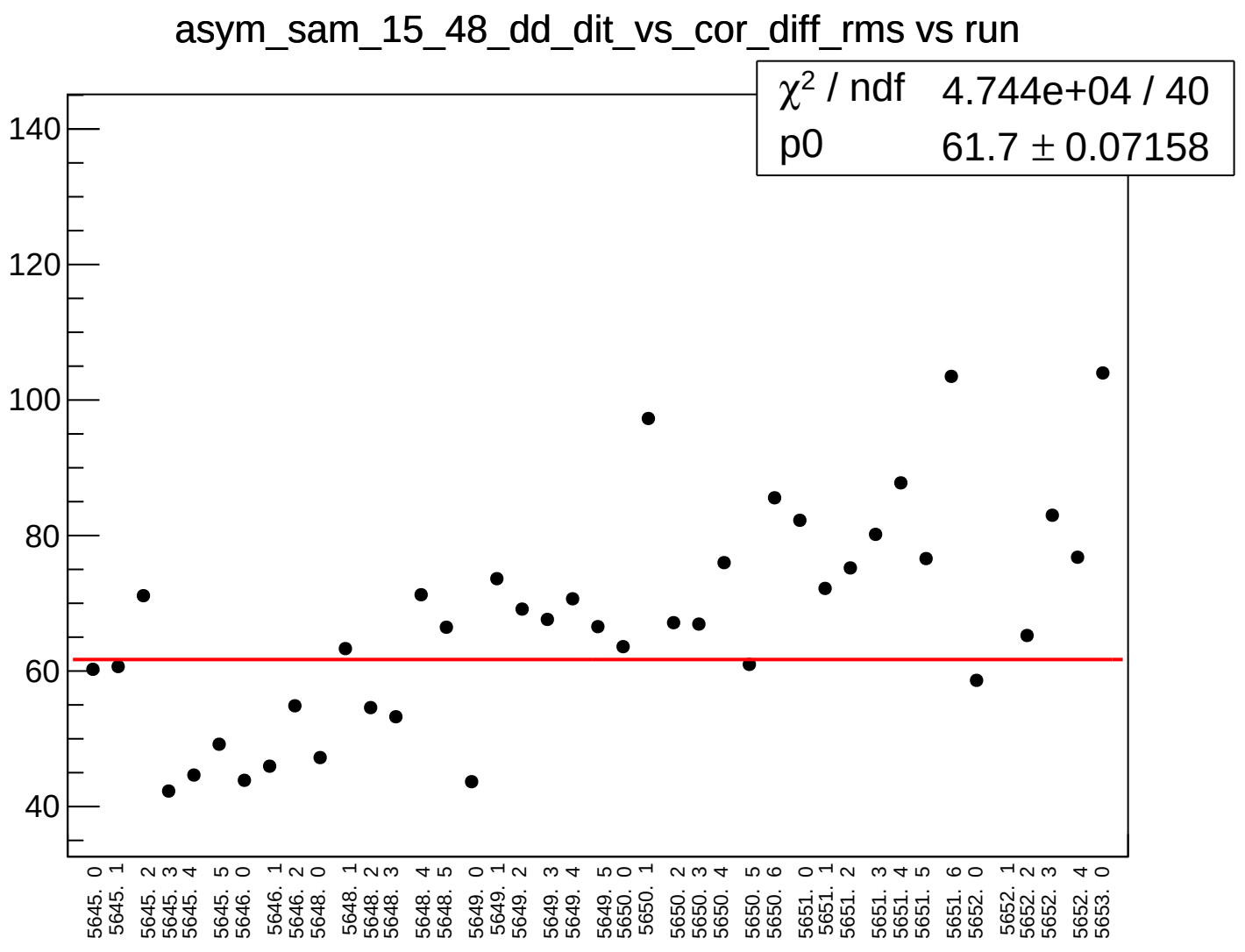

asym_sam_15_48_dd_rms vs run
χ² / ndf 6645 / 40
p0 769.2 ± 0.8689
1000
950
900
850
800
750
700
650
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

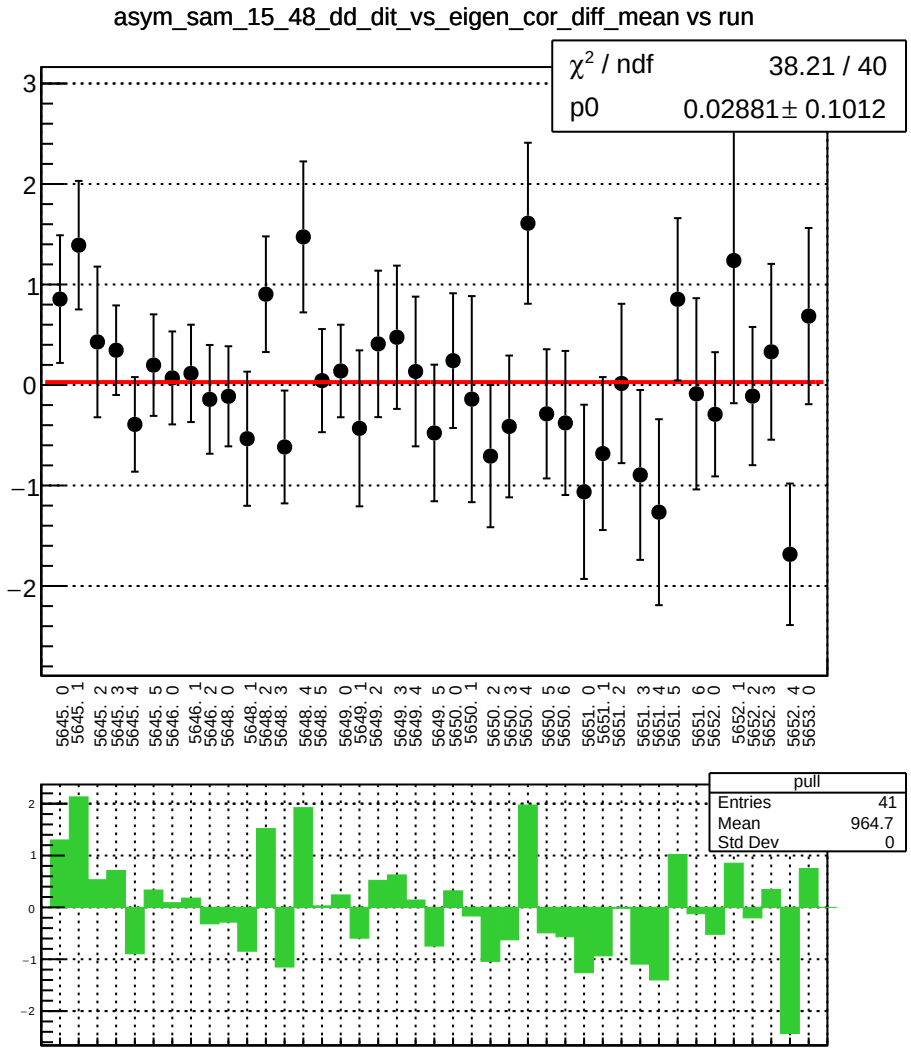

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.69 / 40
p0 −2.479e−13 ± 1.218e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.34
Std Dev 12.31
1.5
1
0.5
0
−0.5
−1
−1.5

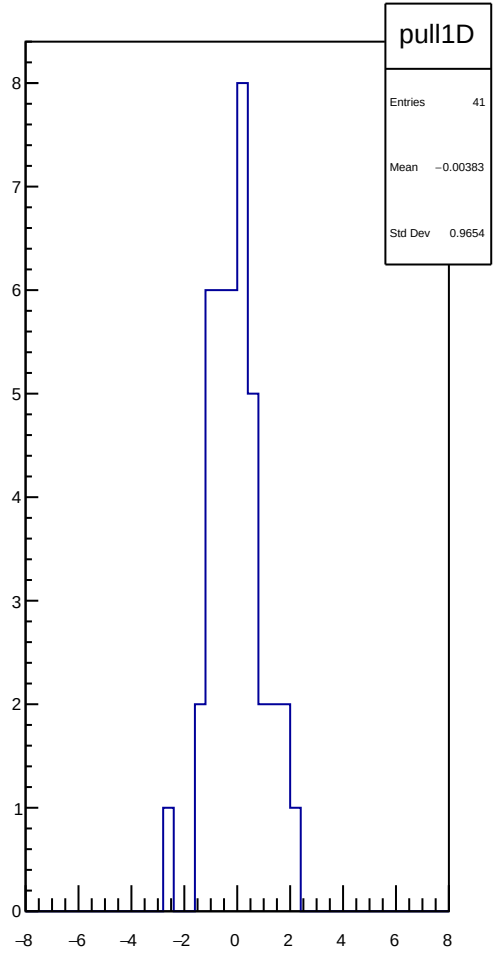

pull1D
Entries 41
Mean −0.1784
Std Dev 0.7868
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

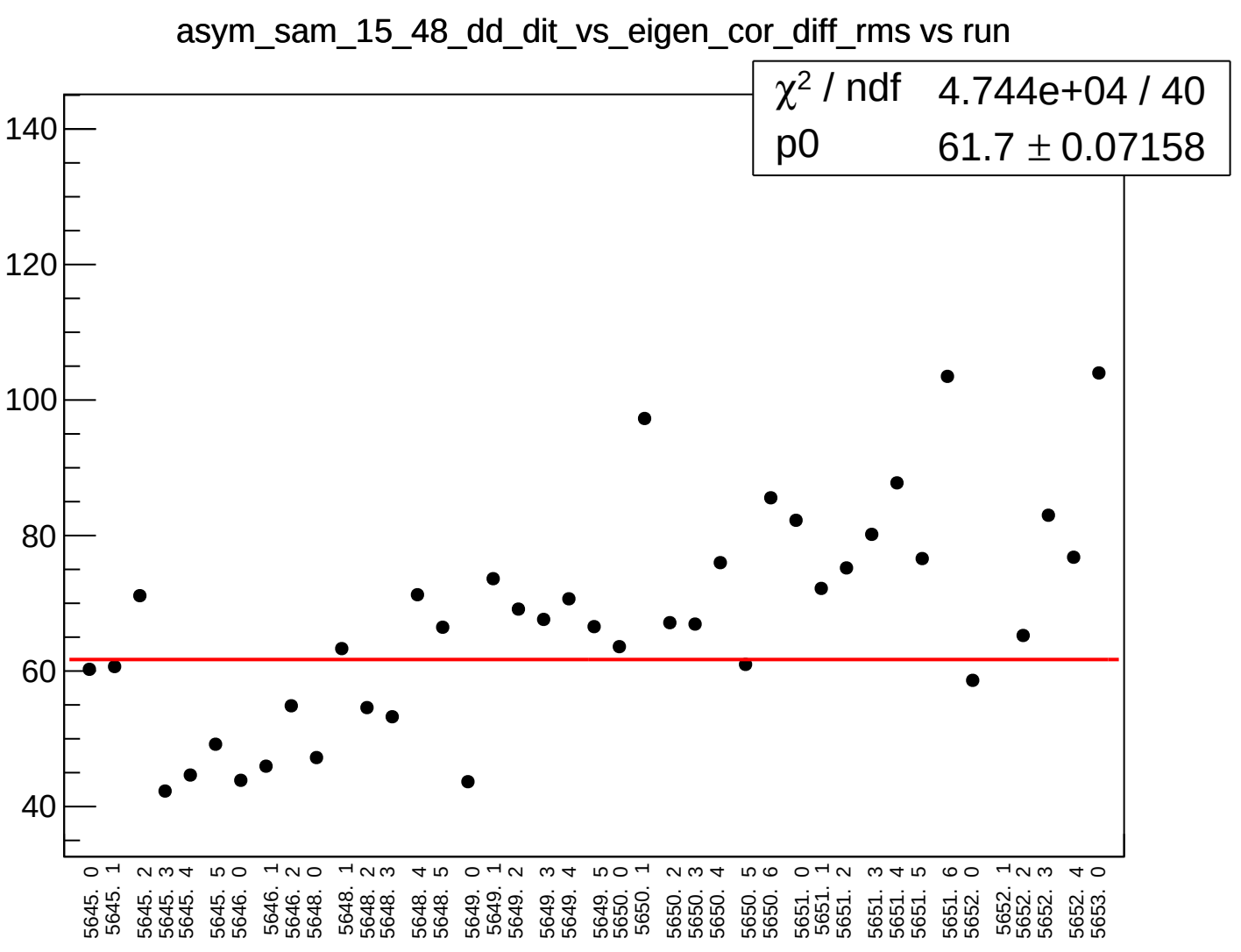

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.006e+05 / 40
p0 6.026e−11 ± 8.611e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

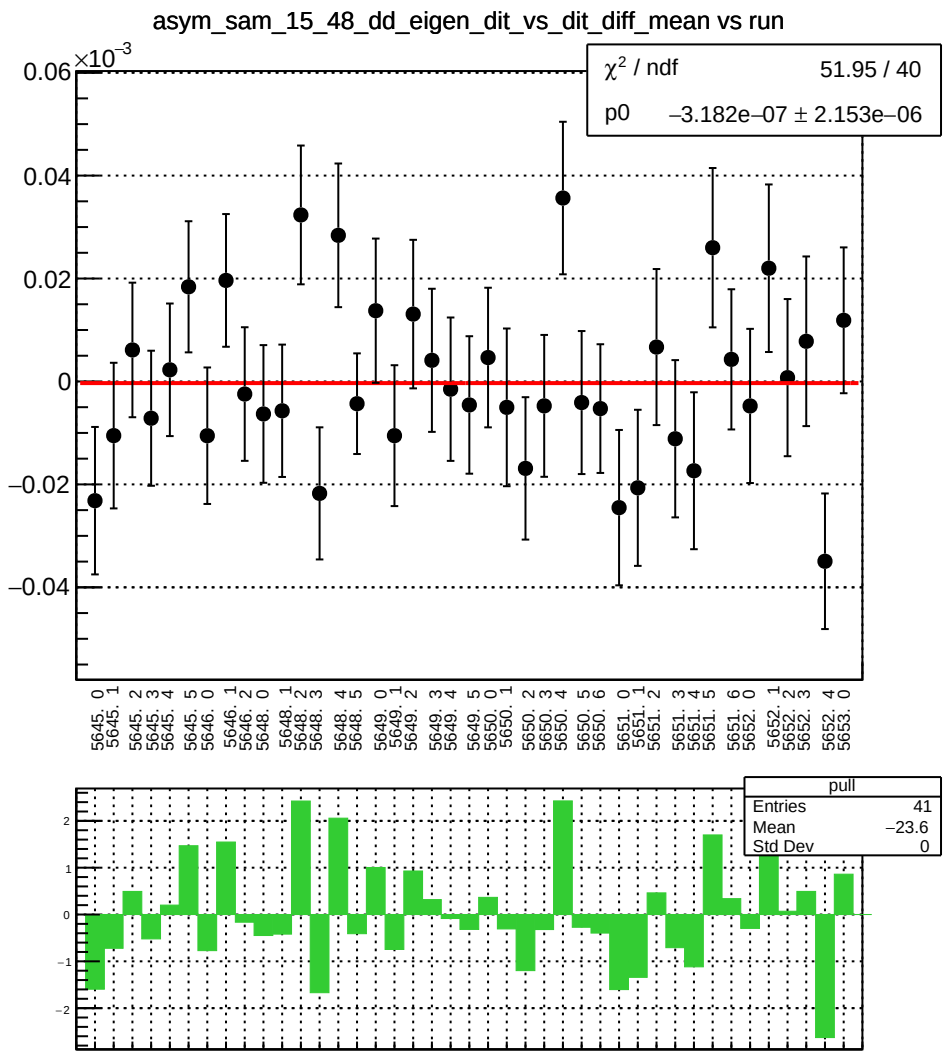

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 38.21 / 40
p0 0.02881± 0.1012
pull
Entries 41
Mean 964.7
Std Dev 0
pull1D
Entries 41
Mean −0.00383
Std Dev 0.9654

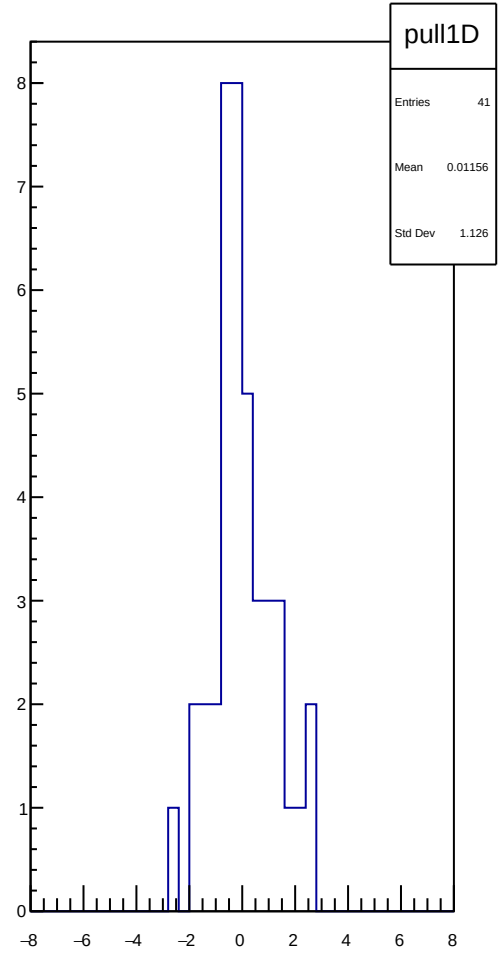

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.744e+04 / 40
p0 61.7 ± 0.07158
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

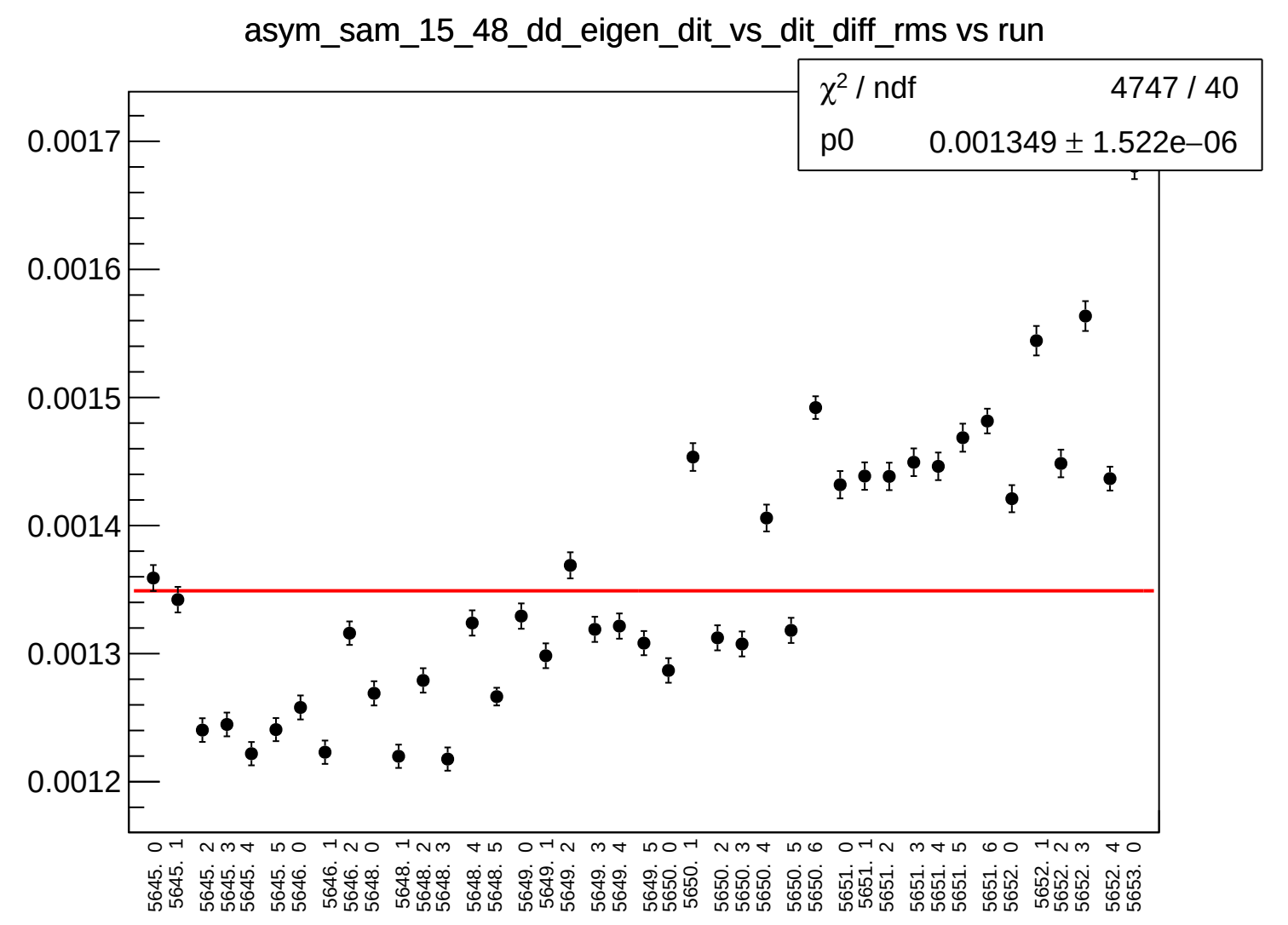

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.21 / 40
p0 0.02881± 0.1012
pull
Entries 41
Mean 964.7
Std Dev 0

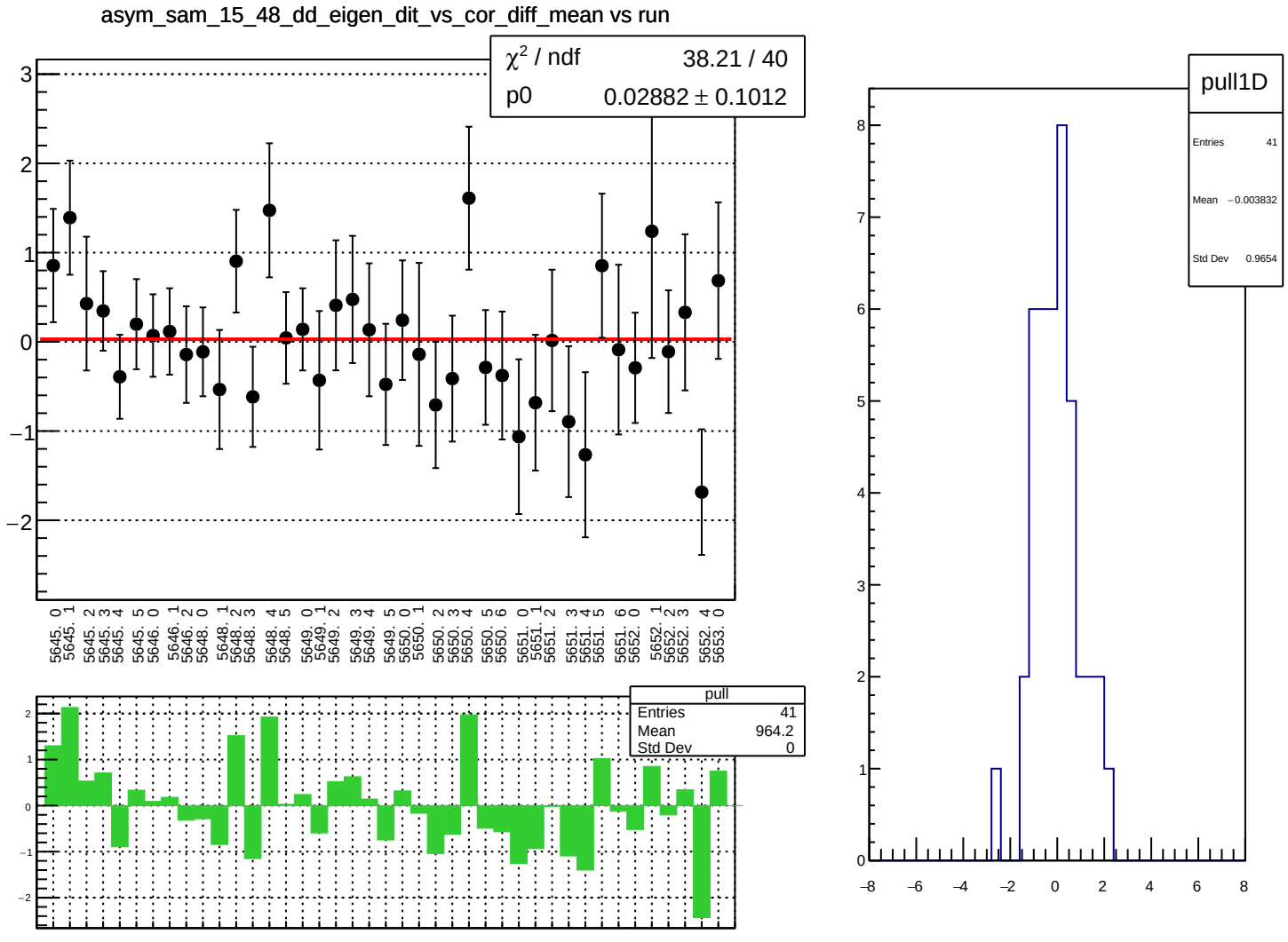

pull1D
Entries 41
Mean −0.00383
Std Dev 0.9654

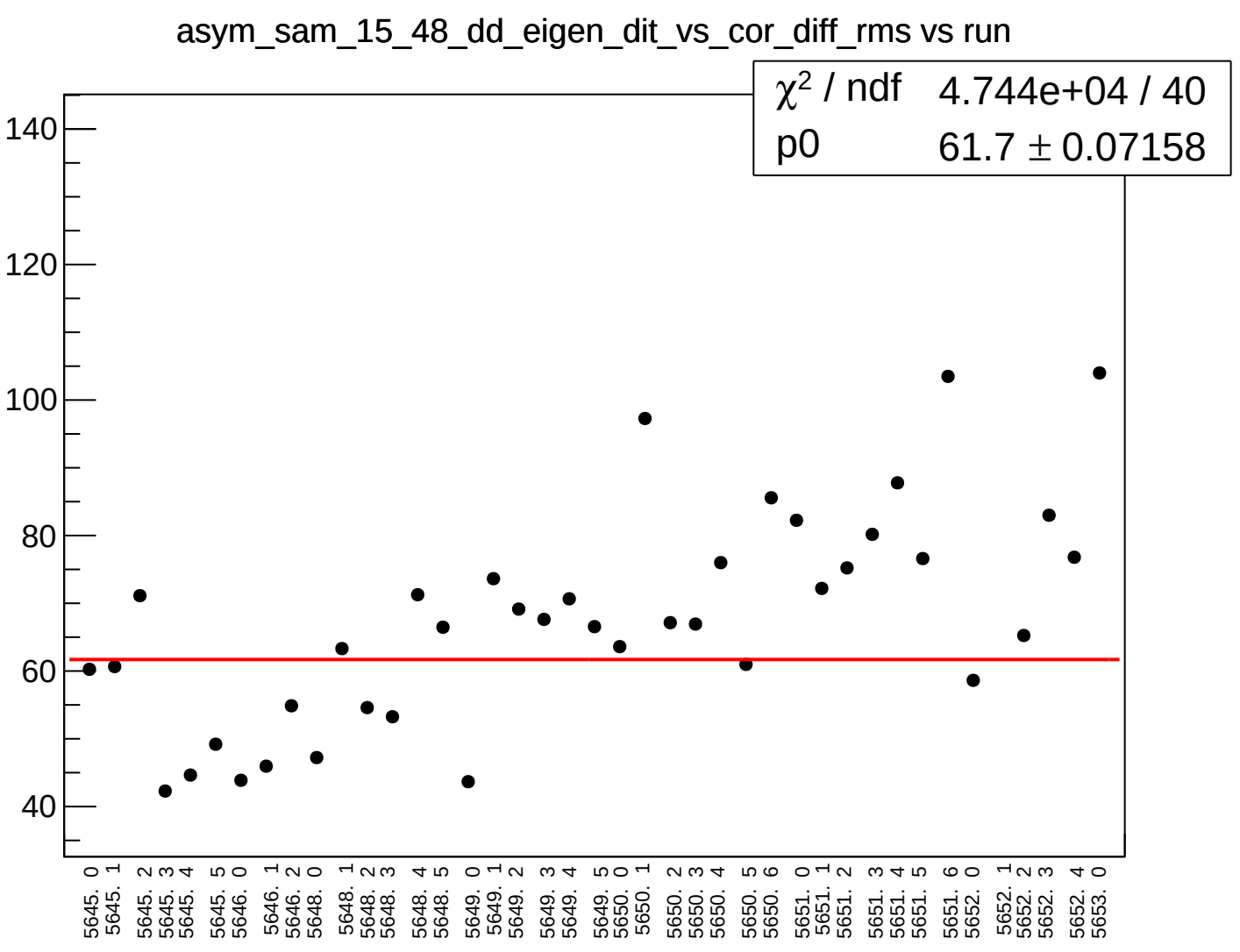

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.744e+04 / 40
p0 61.7 ± 0.07158
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

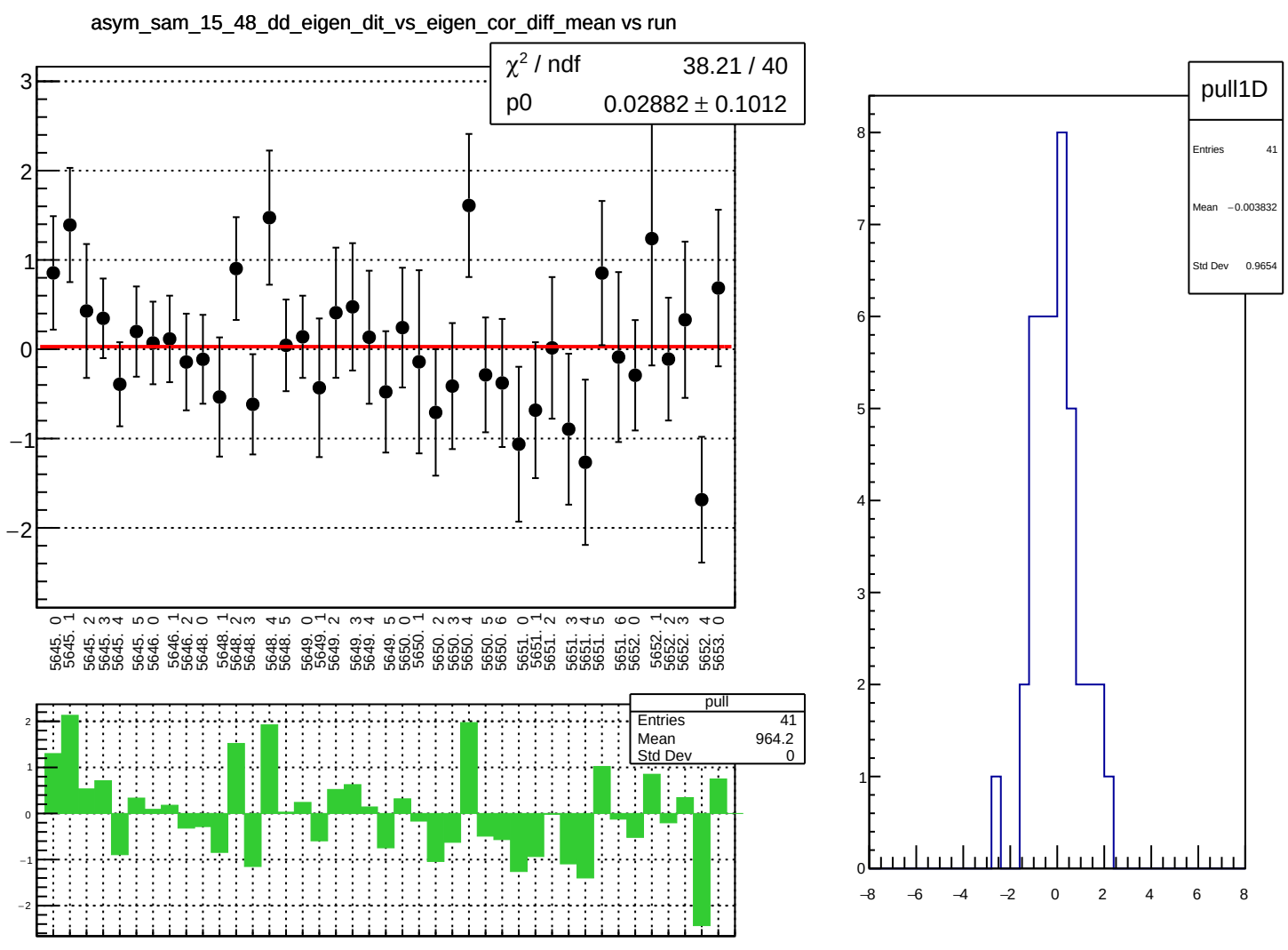

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
0.06
0.04
0.02
0
−0.02
−0.04
χ² / ndf 51.95 / 40
p0 −3.182e−07 ± 2.153e−06
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −23.6
Std Dev 0
2
1
0
−1
−2

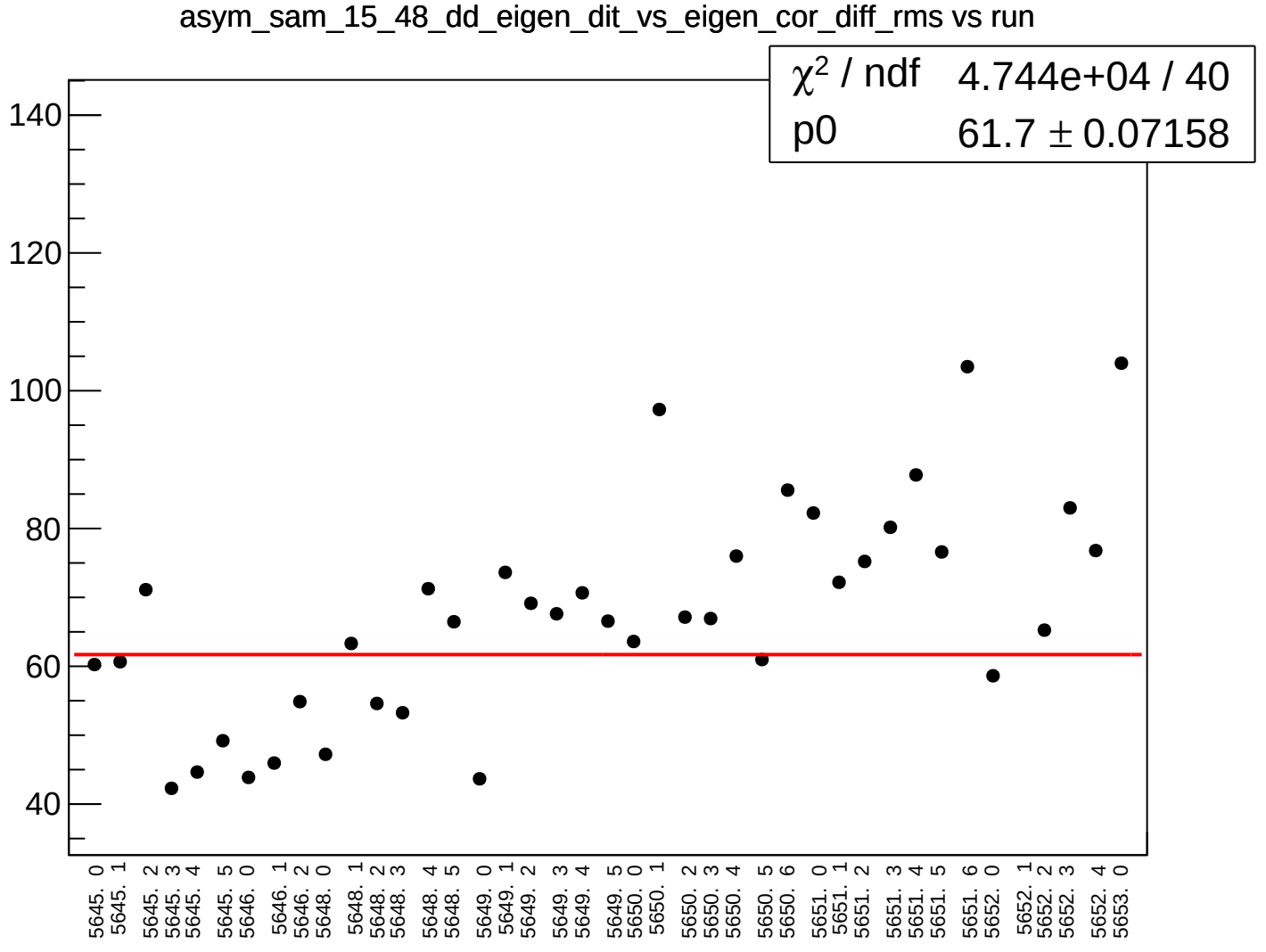

pull1D
Entries 41
Mean 0.01156
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

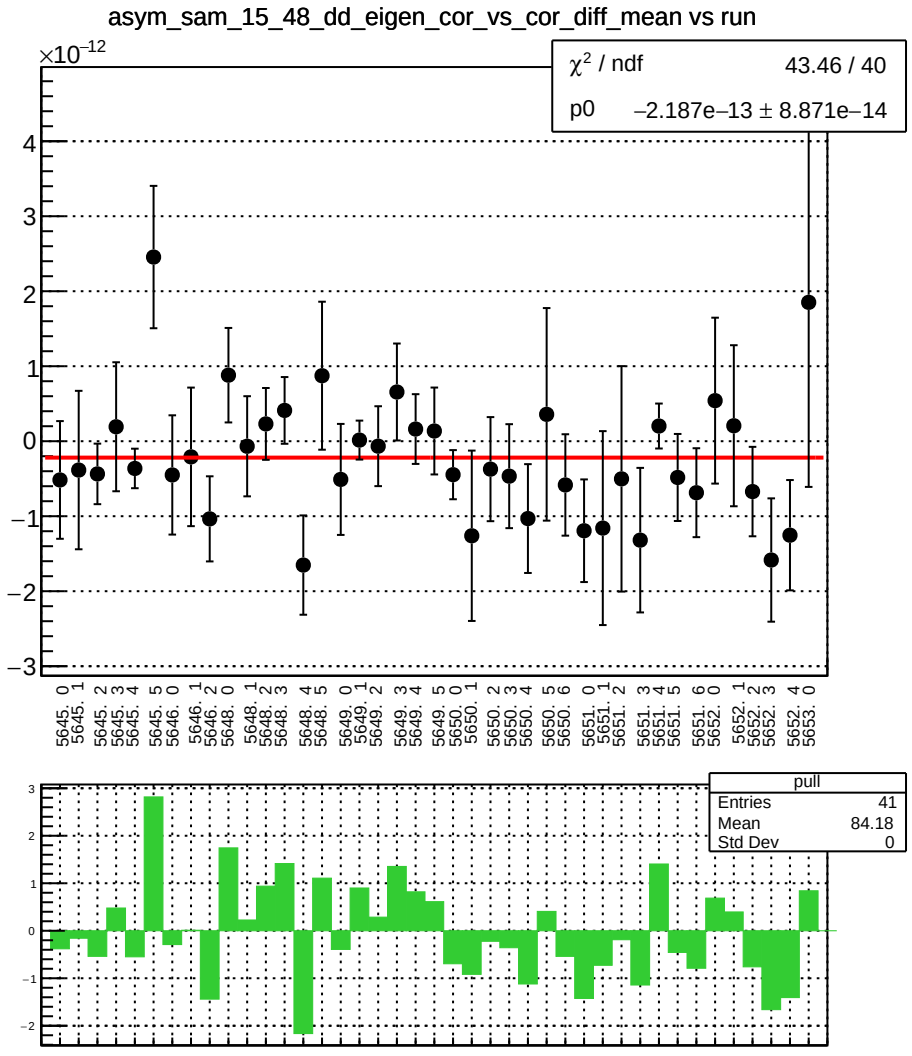

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4747 / 40
p0 0.001349 ± 1.522e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

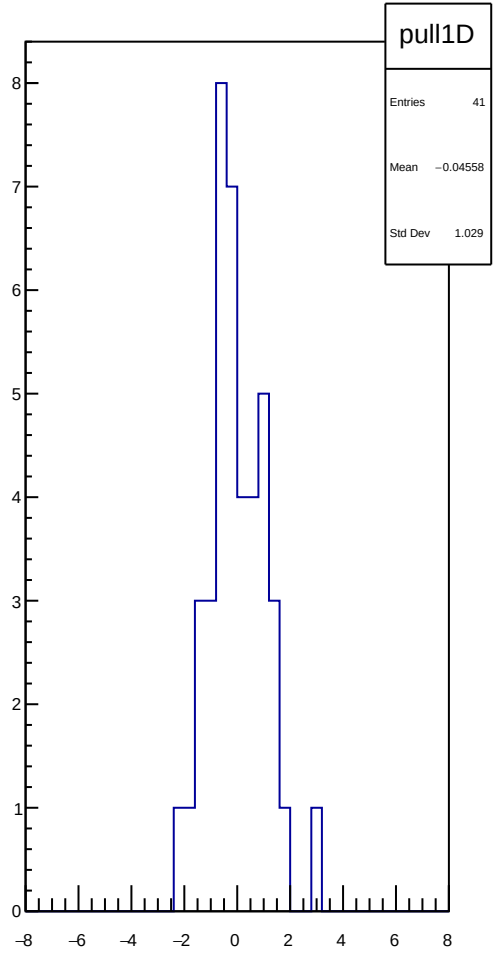

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 38.21 / 40
p0 0.02882 ± 0.1012
pull
Entries 41
Mean 964.2
Std Dev 0
pull1D
Entries 41
Mean −0.003832
Std Dev 0.9654

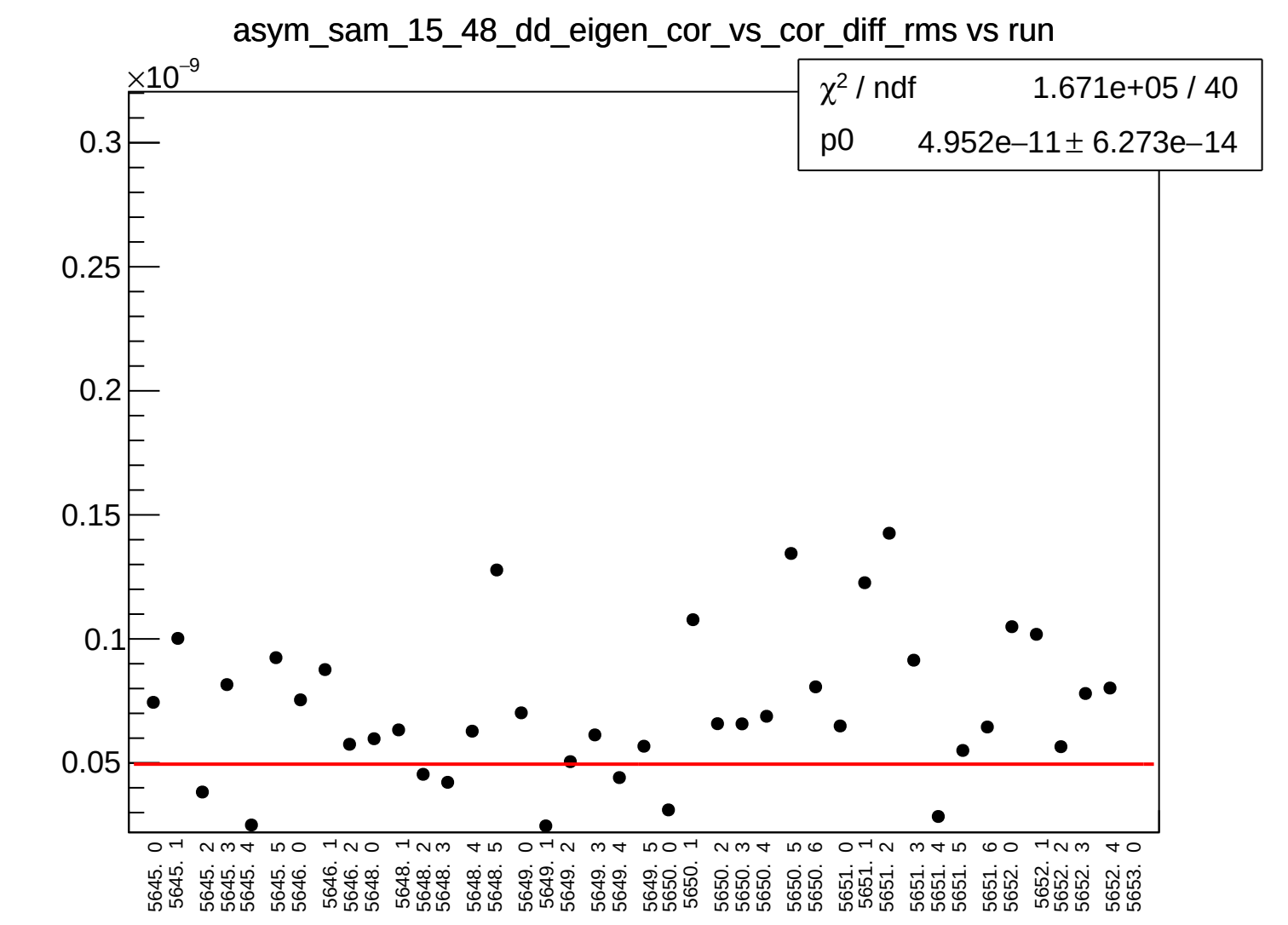

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.744e+04 / 40
p0 61.7 ± 0.07158
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

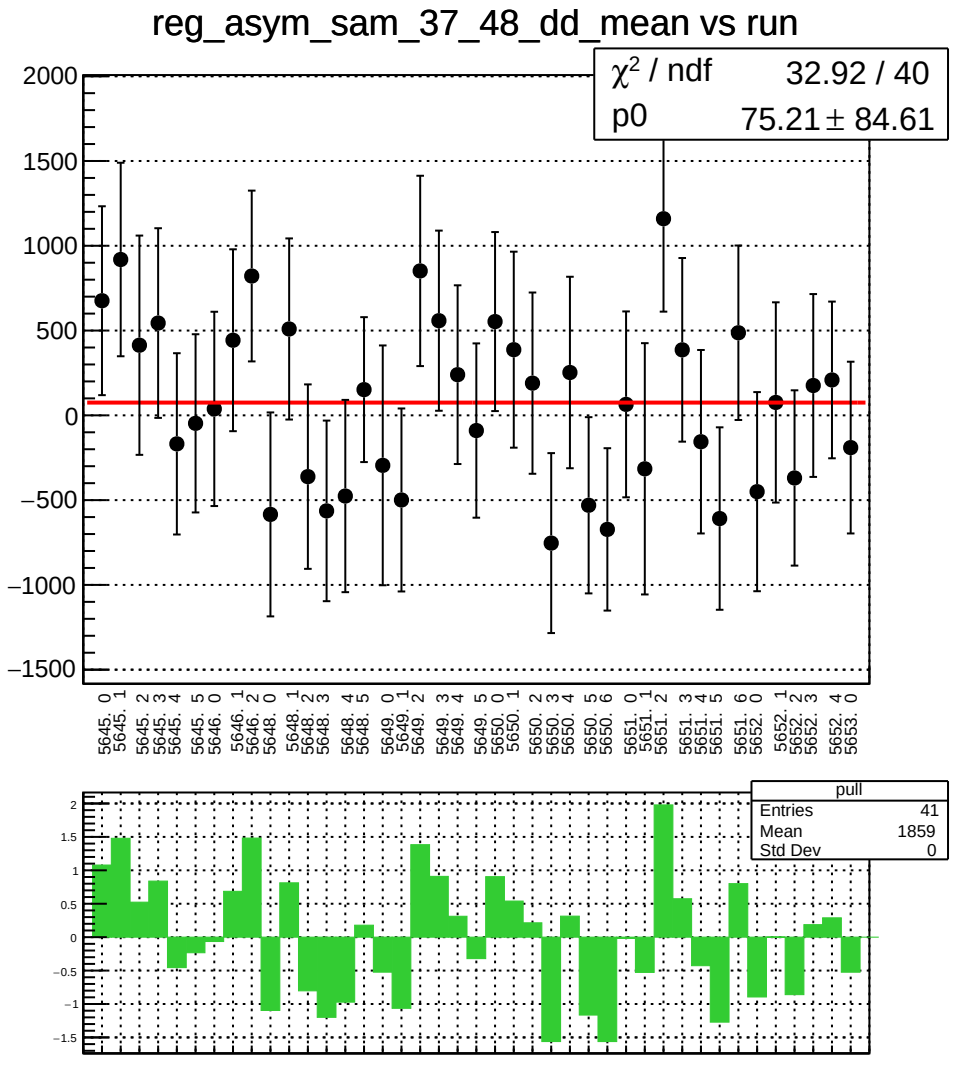

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 38.21 / 40
p0 0.02882 ± 0.1012
pull
Entries 41
Mean 964.2
Std Dev 0
pull1D
Entries 41
Mean −0.003832
Std Dev 0.9654

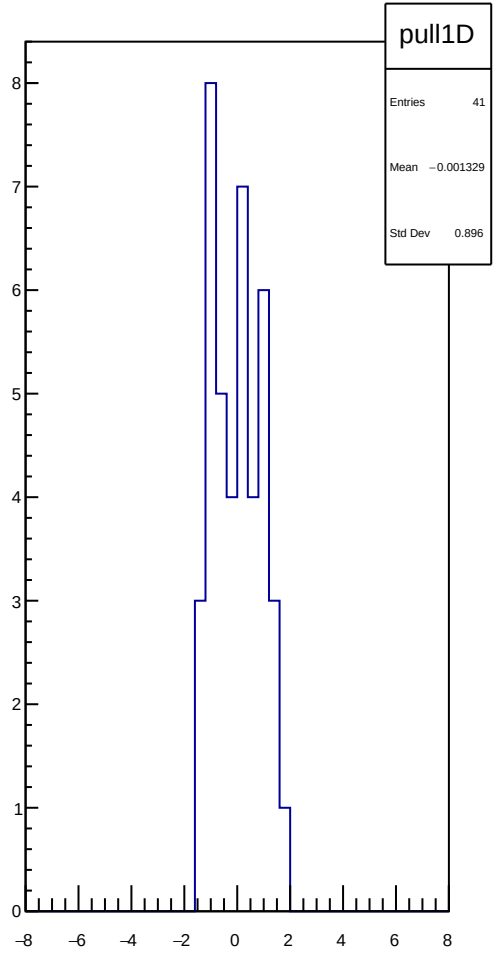

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.744e+04 / 40
p0 61.7 ± 0.07158
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

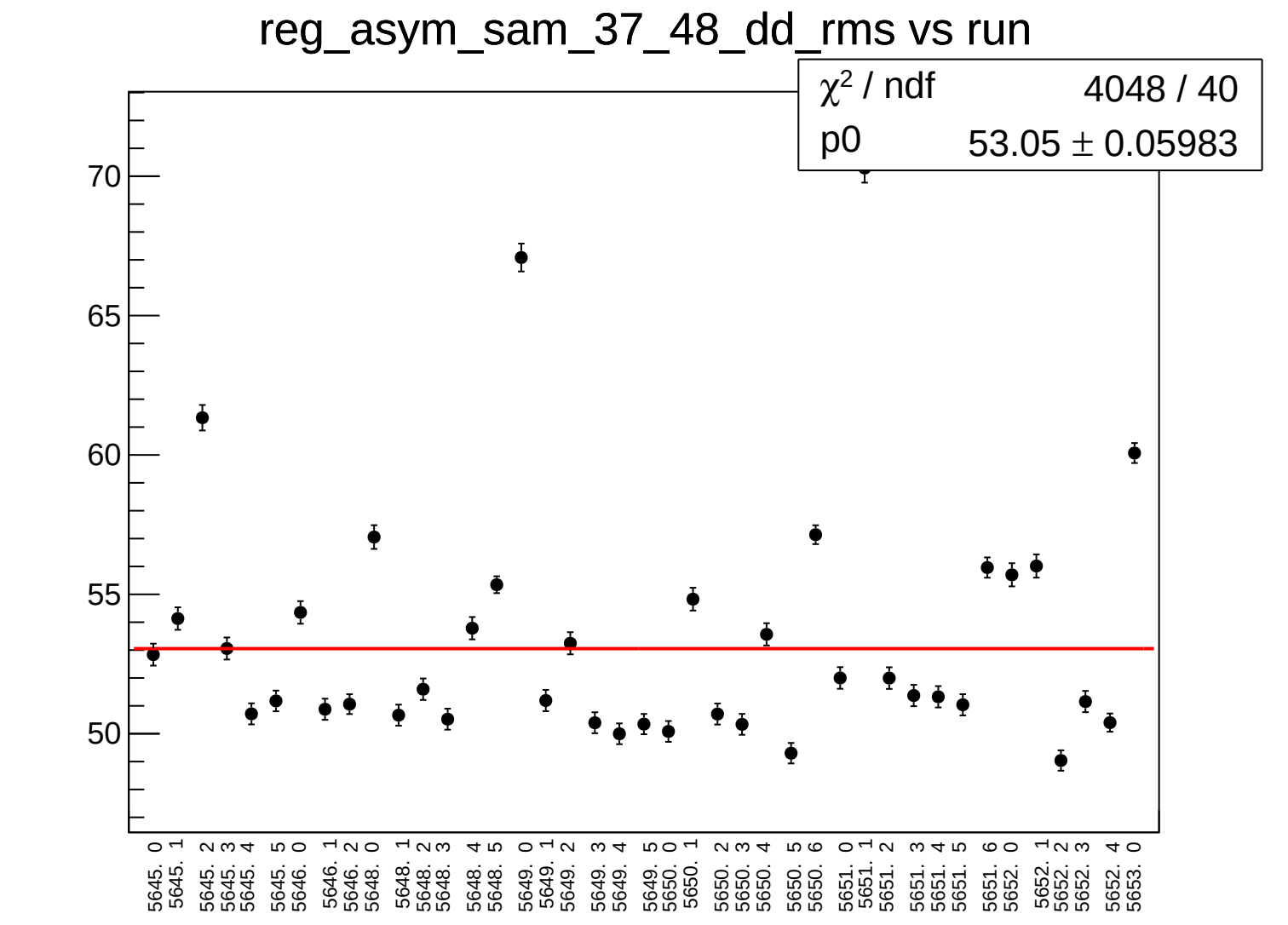

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.46 / 40
p0 −2.187e−13 ± 8.871e−14
pull
Entries 41
Mean 84.18
Std Dev 0

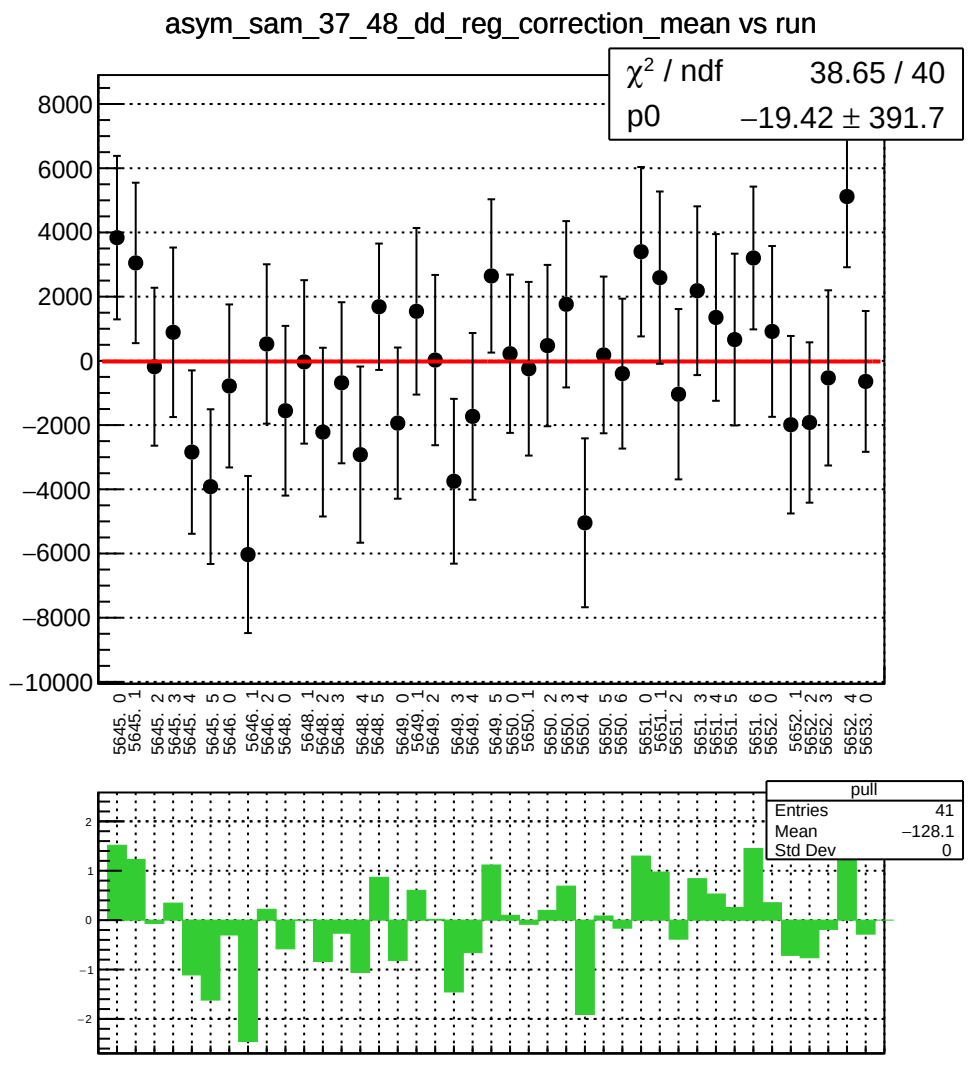

pull1D
Entries 41
Mean −0.04558
Std Dev 1.029

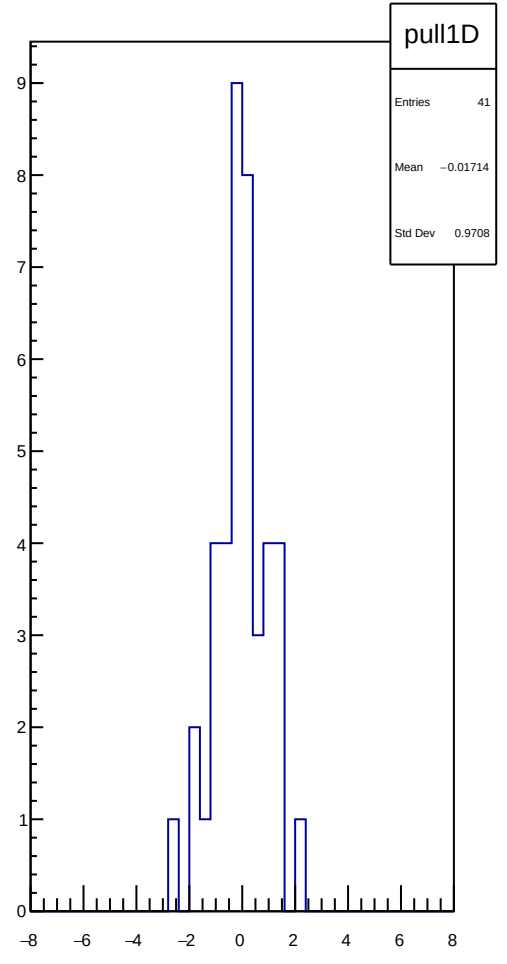

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.671e+05 / 40
p0 4.952e−11 ± 6.273e−14
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

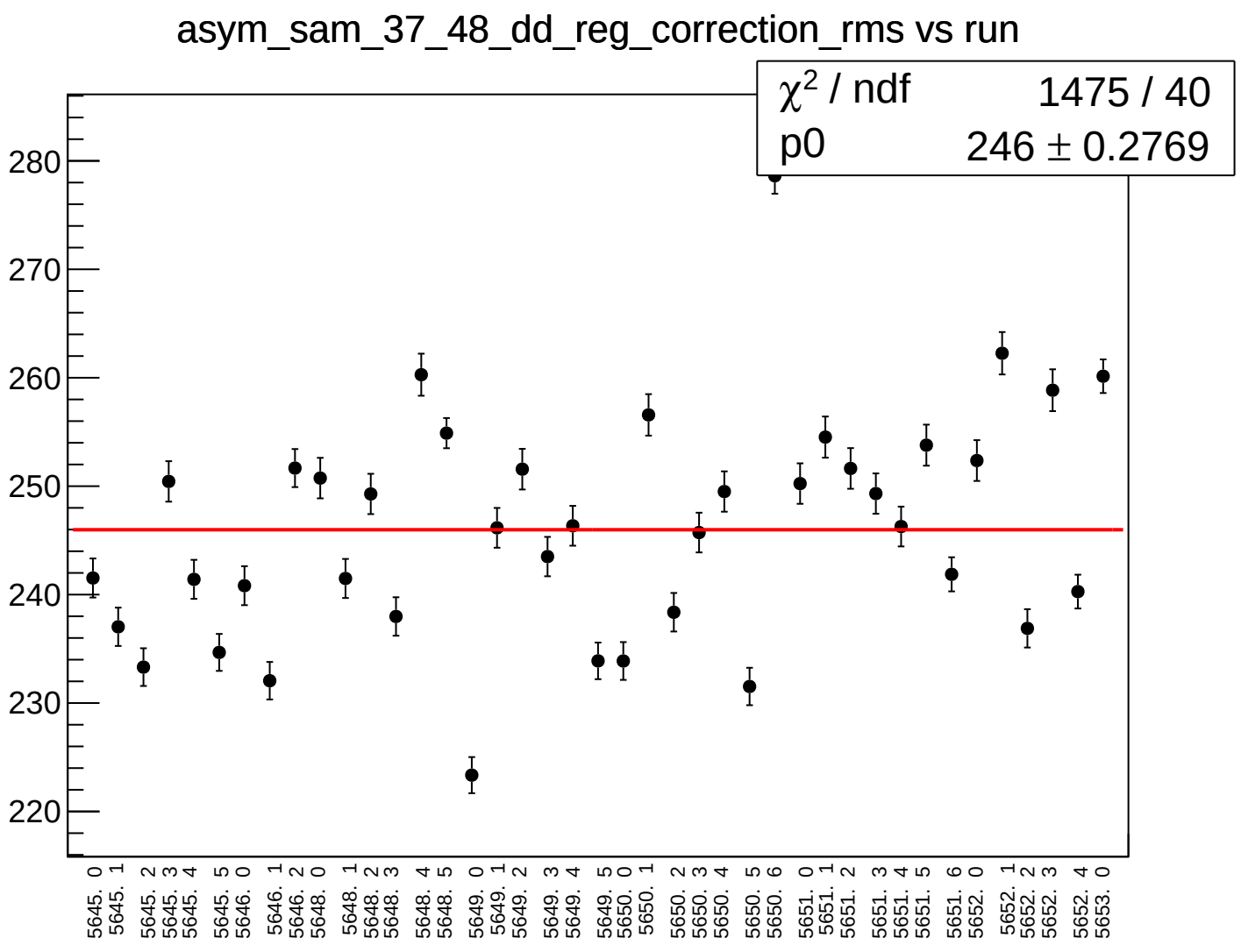

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 32.92 / 40
p0 75.21 ± 84.61
2000
1500
1000
500
0
−500
−1000
−1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 1859
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

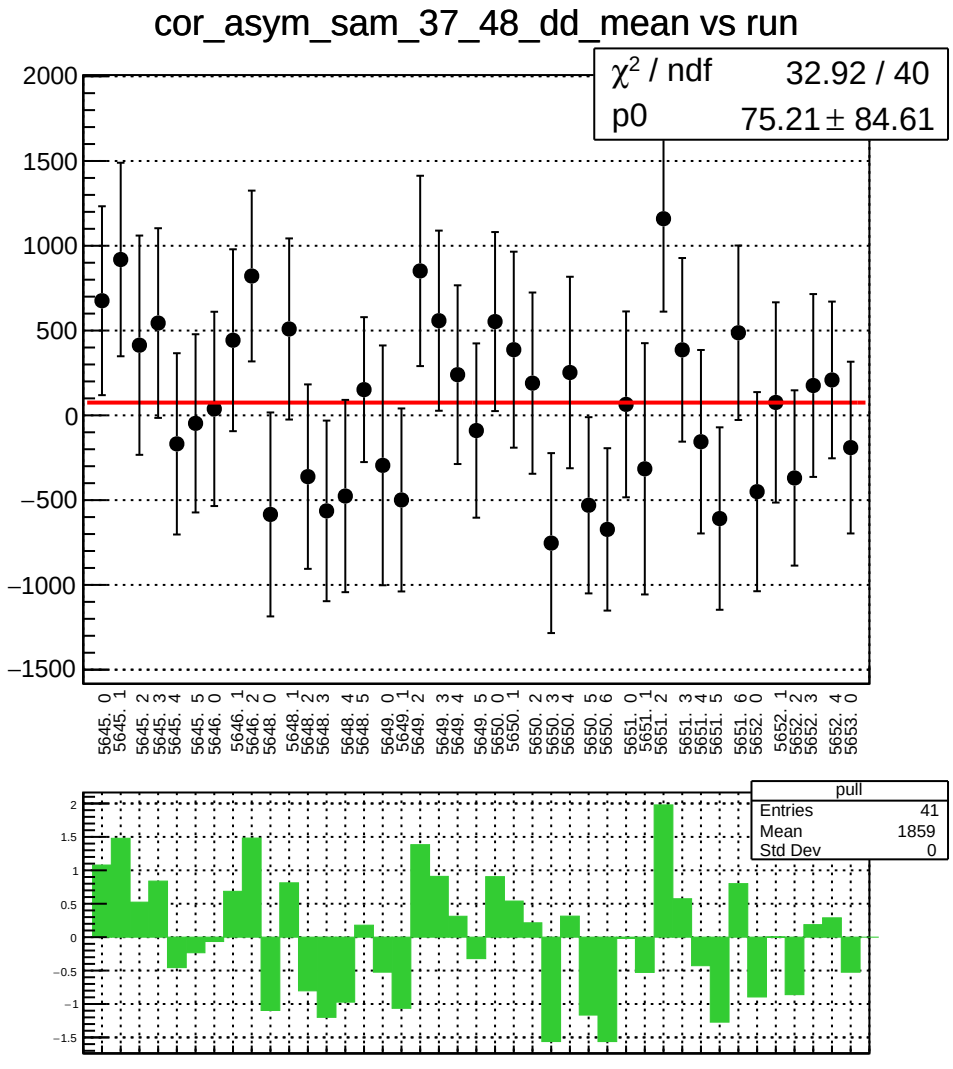

pull1D
Entries 41
Mean −0.001329
Std Dev 0.896
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

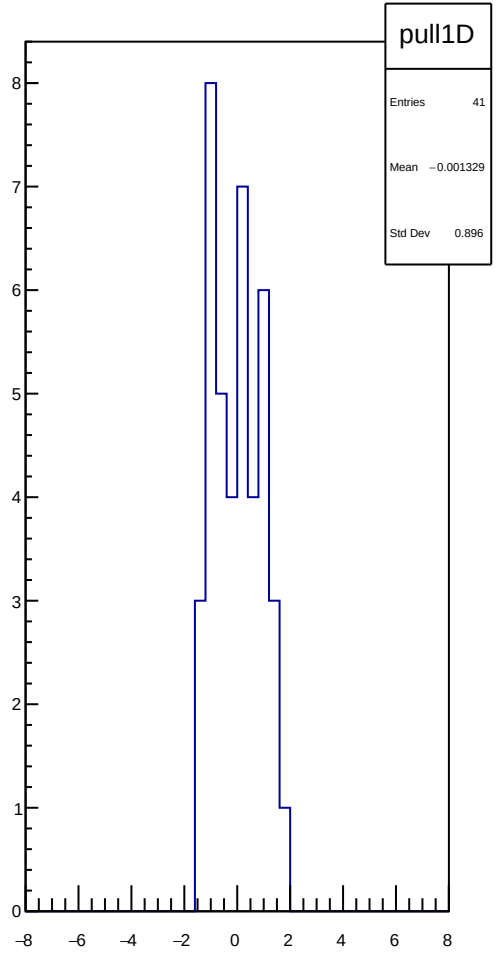

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 4048 / 40
p0 53.05 ± 0.05983
70
65
60
55
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

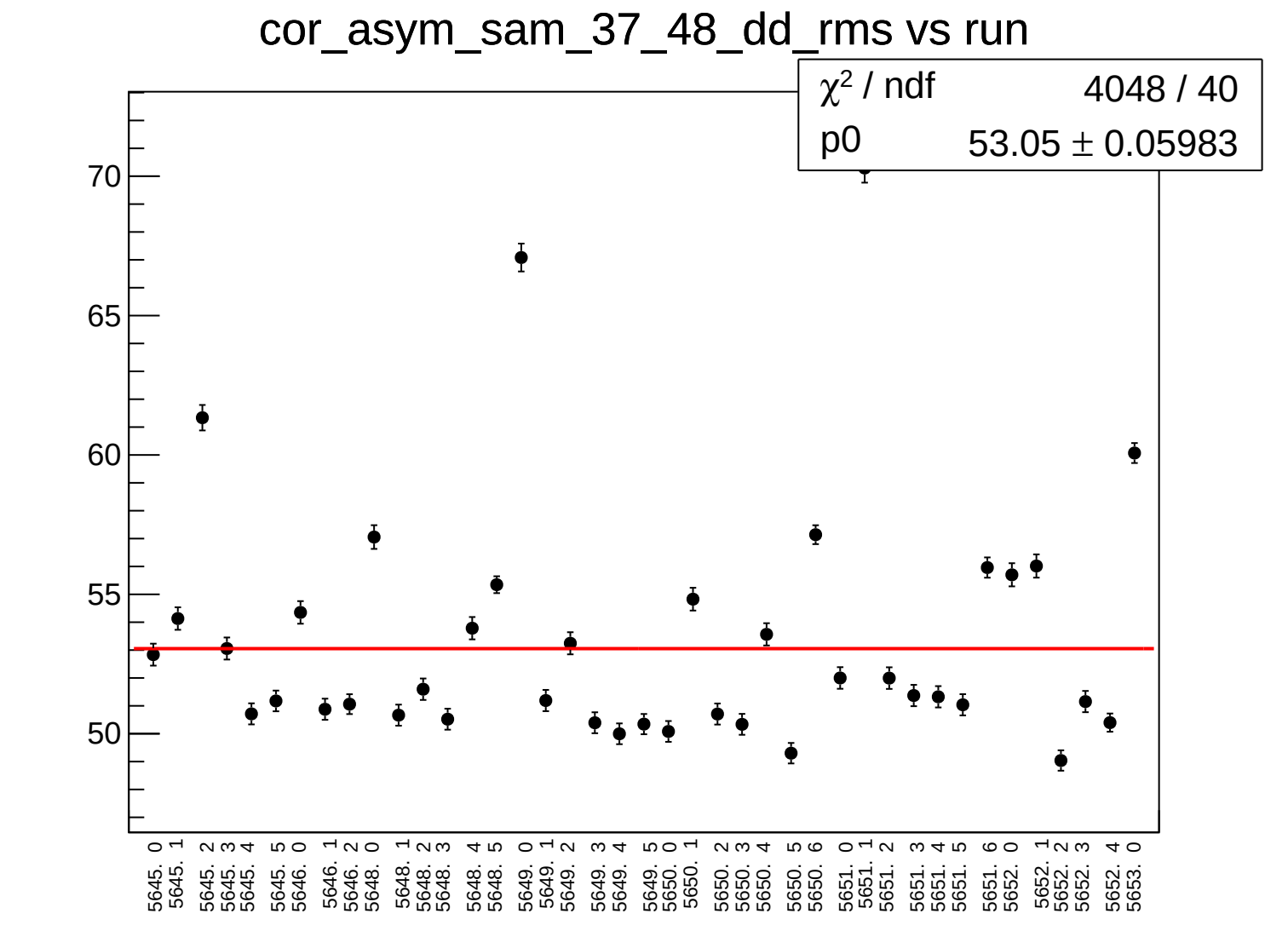

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 38.65 / 40
p0 −19.42 ± 391.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −128.1
Std Dev 0
2
1
0
−1
−2

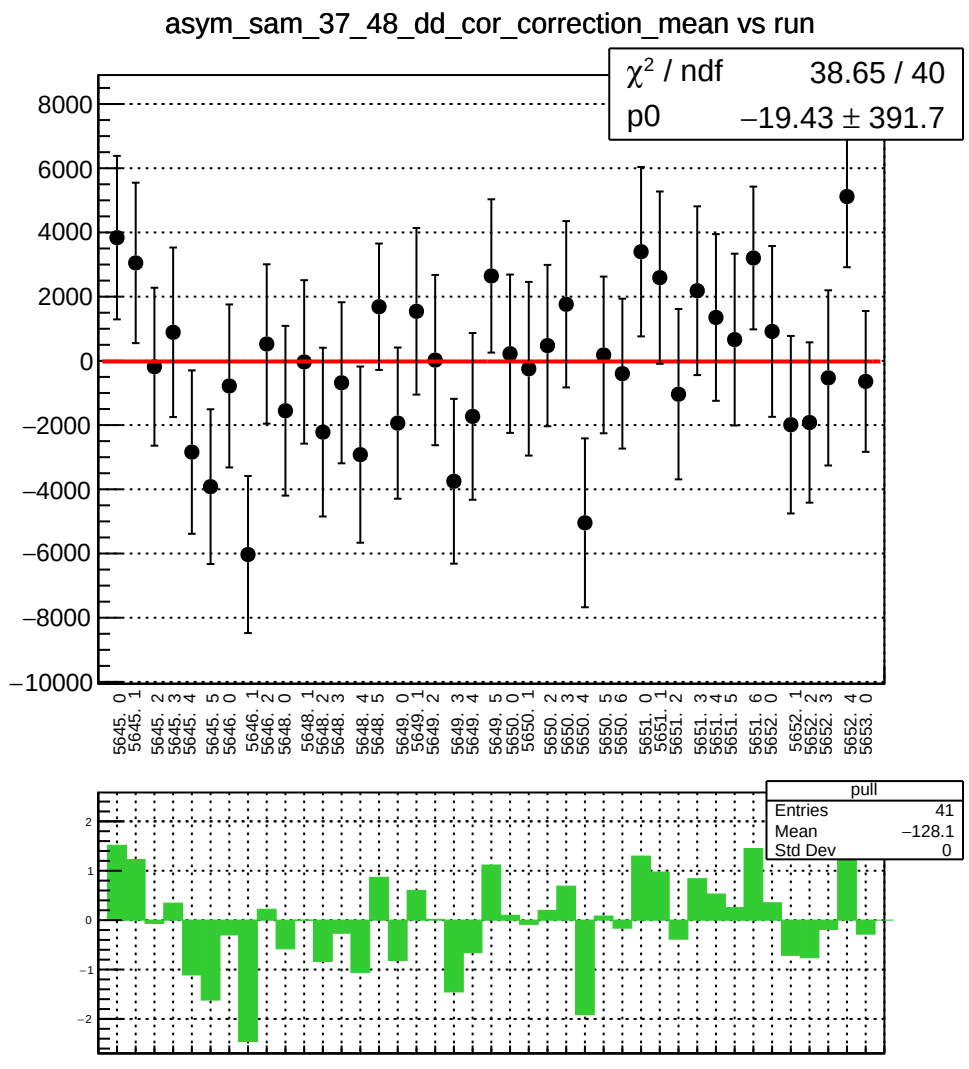

pull1D
Entries 41
Mean −0.01714
Std Dev 0.9708
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

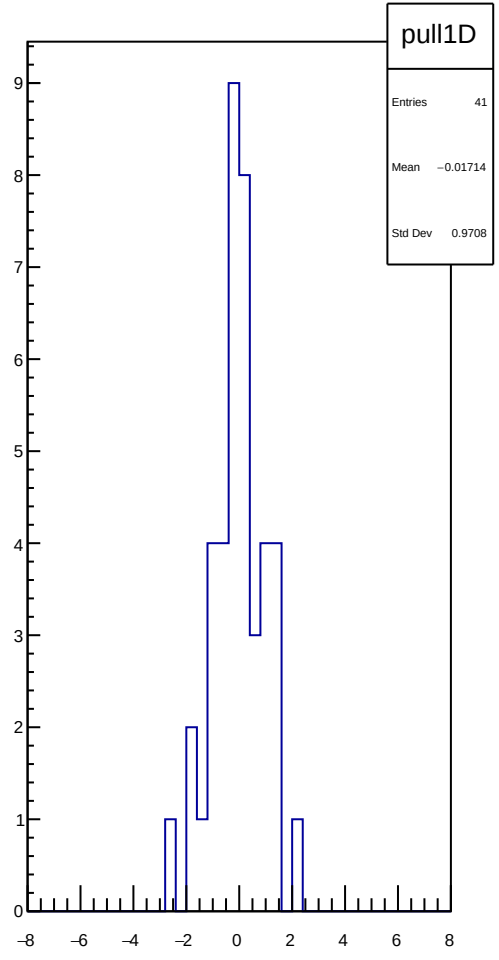

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1475 / 40
p0 246 ± 0.2769
280
270
260
250
240
230
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

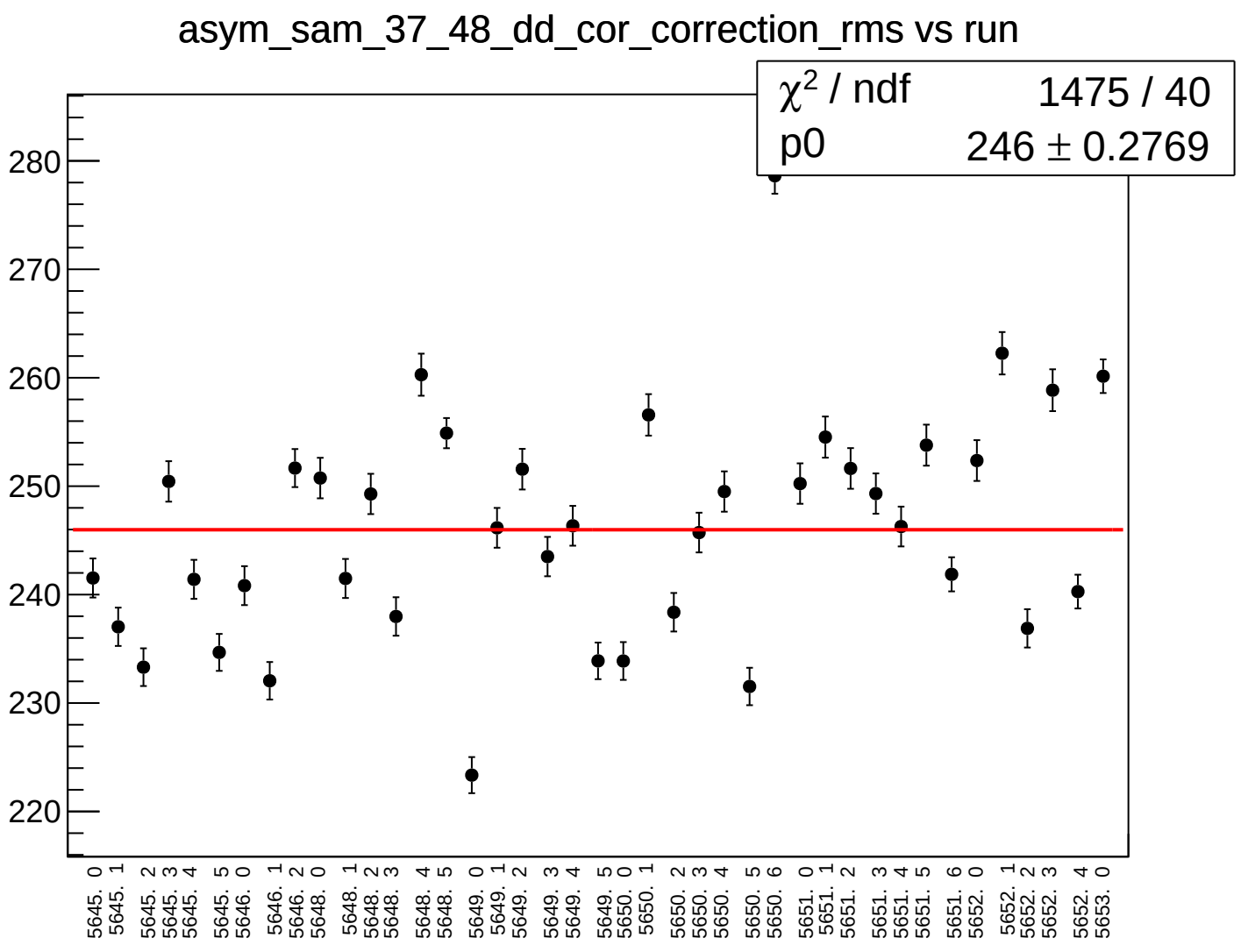

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 32.92 / 40
p0 75.21 ± 84.61
pull
Entries 41
Mean 1859
Std Dev 0

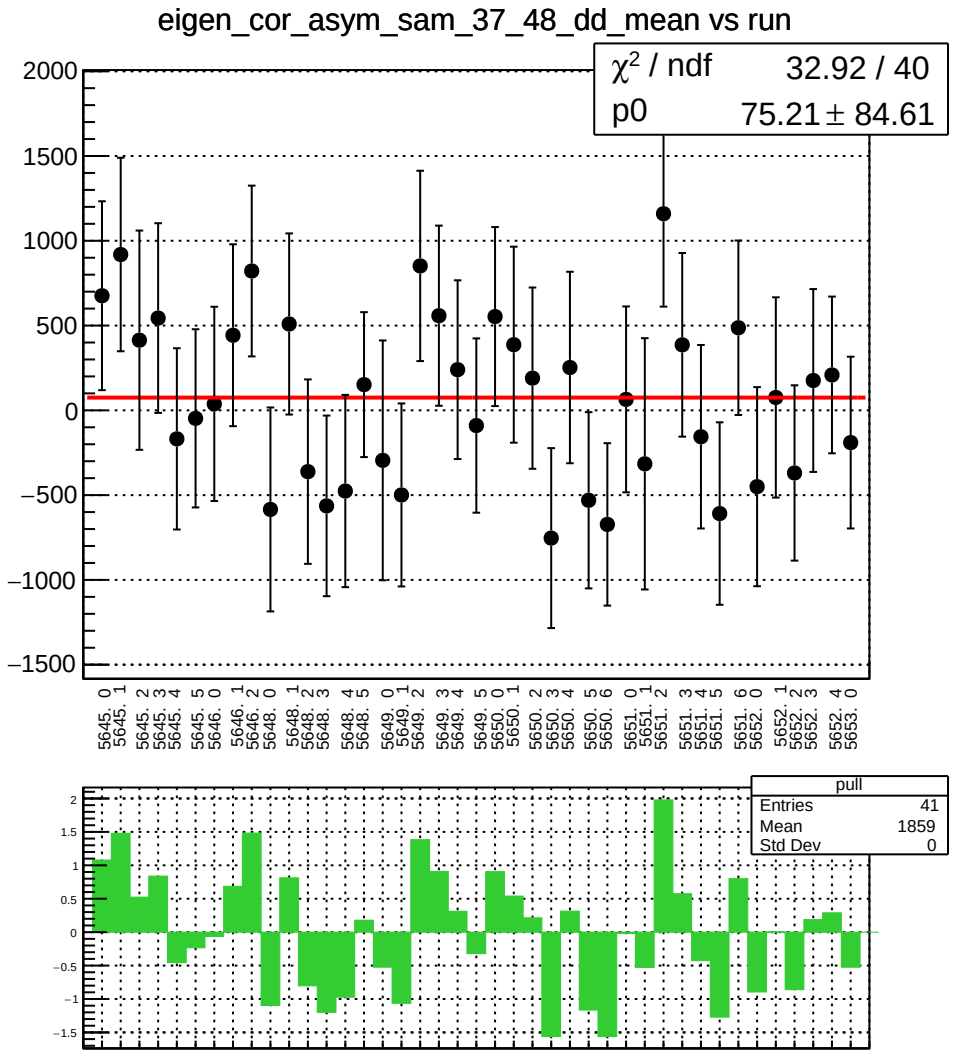

pull1D
Entries 41
Mean −0.001329
Std Dev 0.896

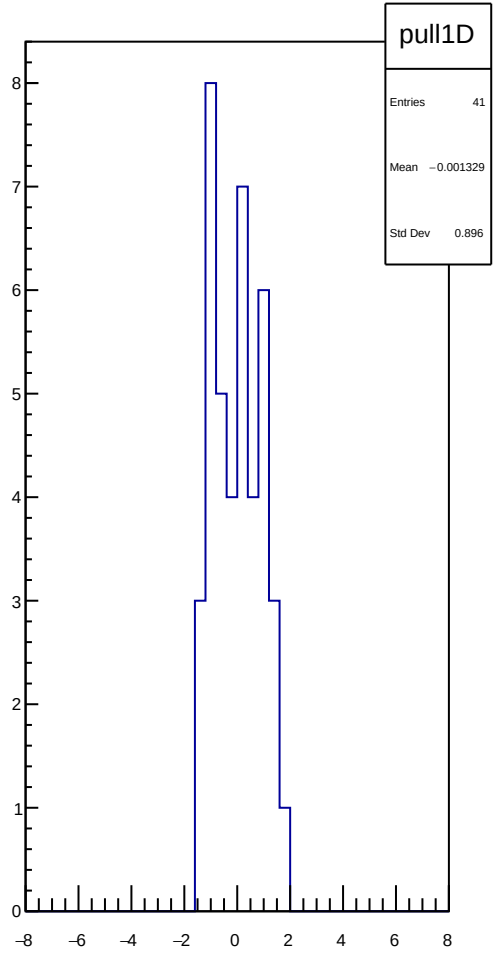

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4048 / 40
p0 53.05 ± 0.05983
70
65
60
55
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

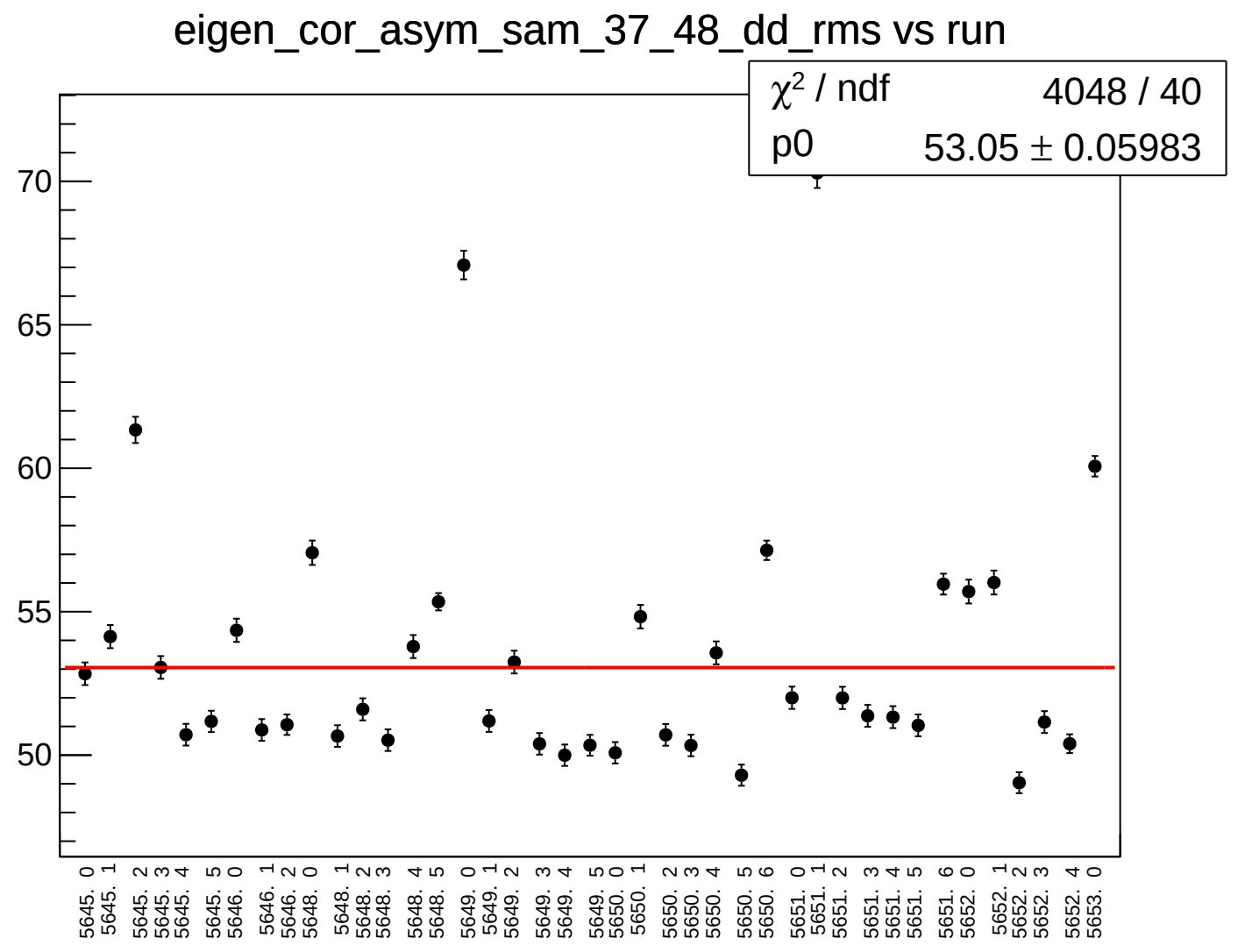

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 38.65 / 40
p0 −19.43 ± 391.7
pull
Entries 41
Mean −128.1
Std Dev 0

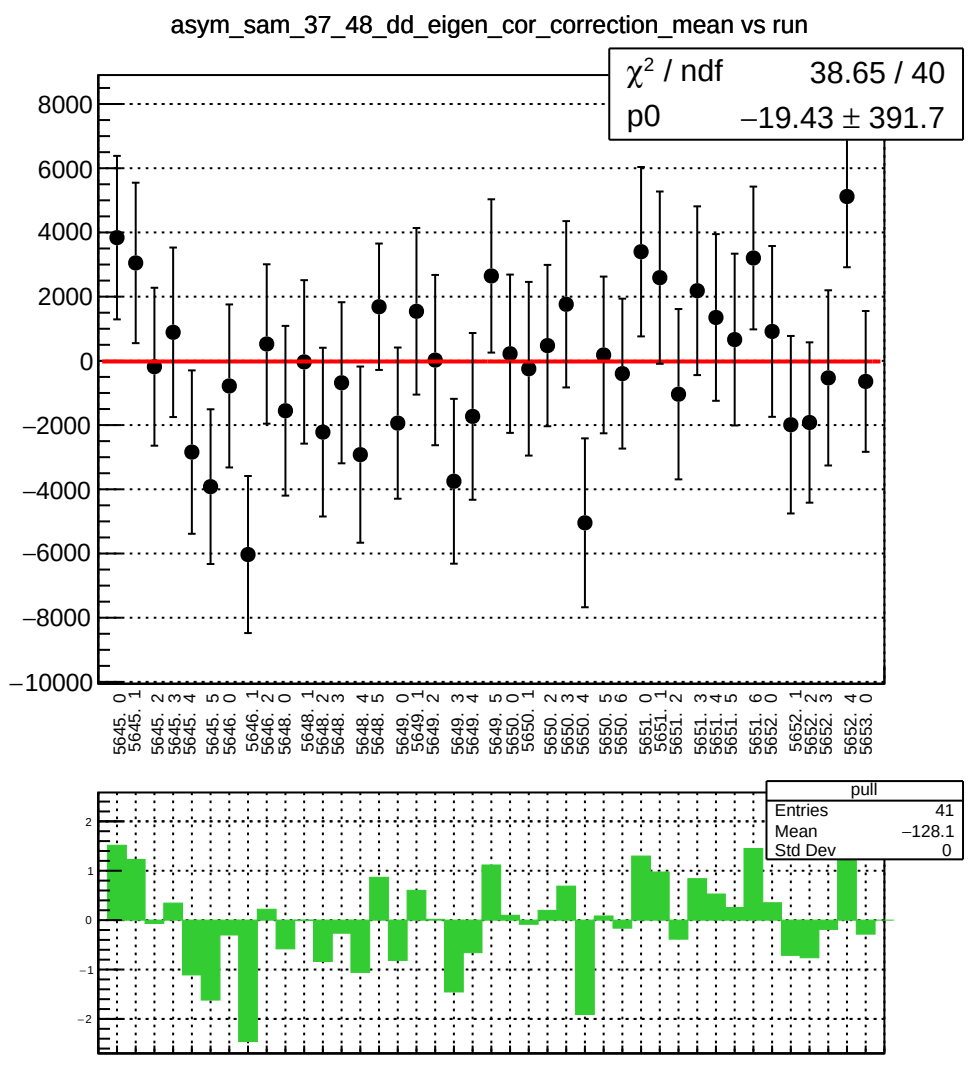

pull1D
Entries 41
Mean −0.01714
Std Dev 0.9708

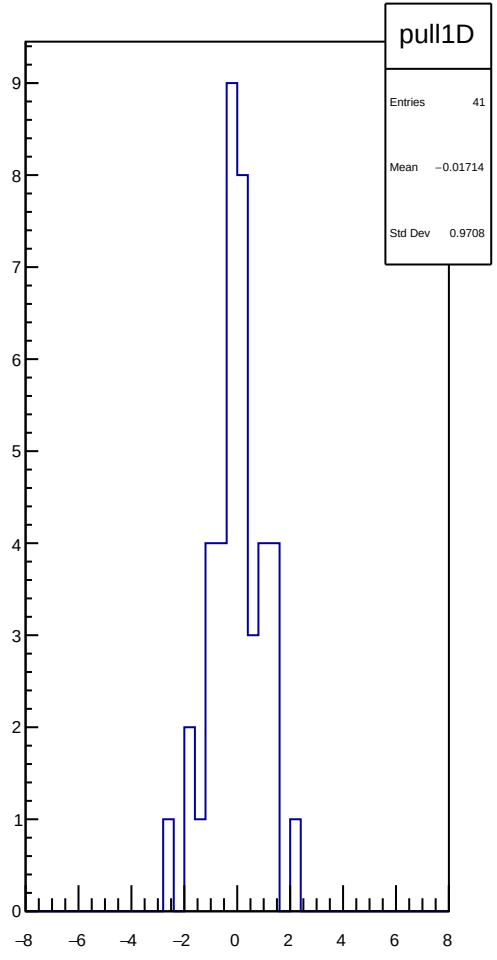

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1475 / 40
p0 246 ± 0.2769
280
270
260
250
240
230
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

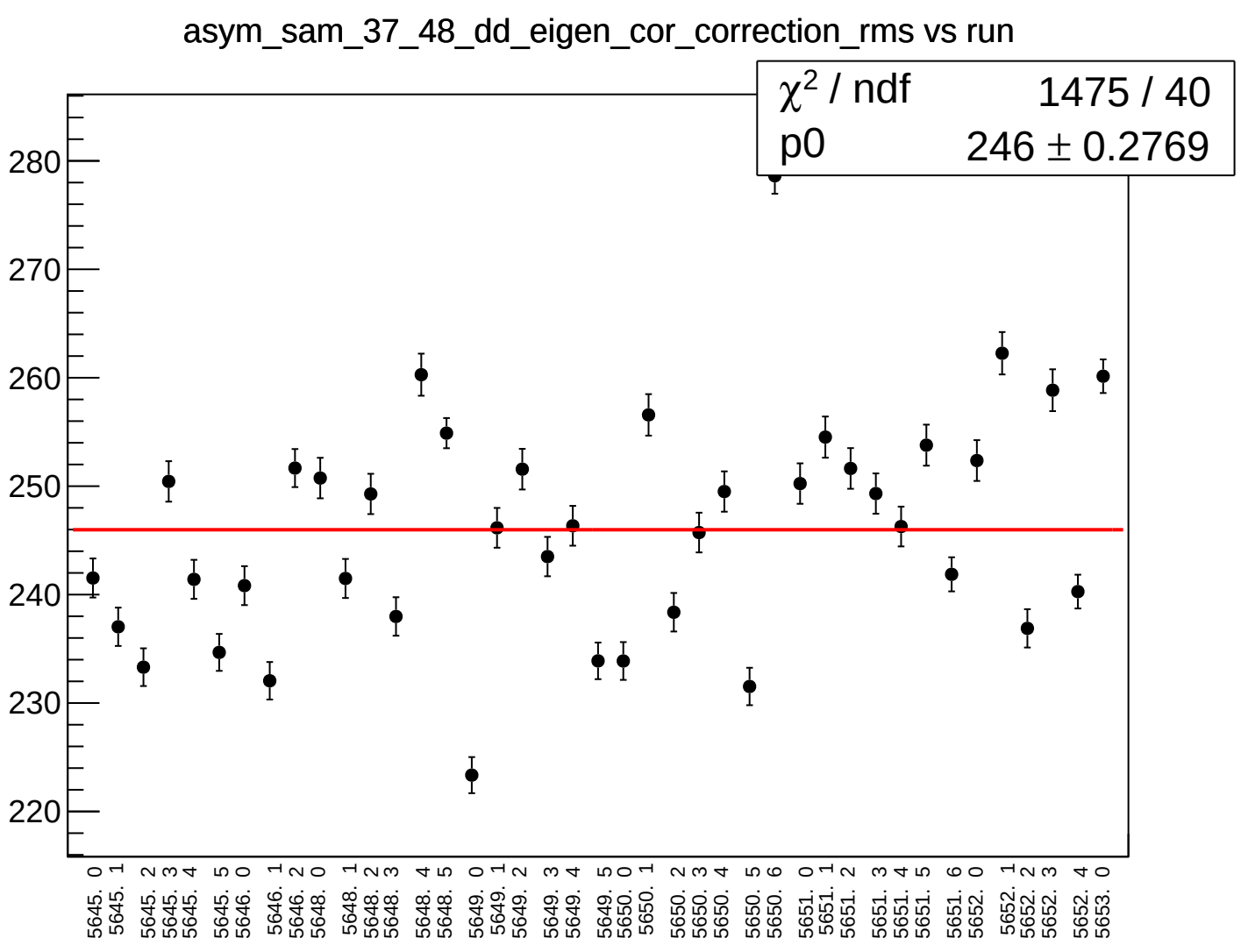

eigen_cor_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 32.92 / 40
p0 75.21 ± 84.61
pull
Entries 41
Mean 1859
Std Dev 0

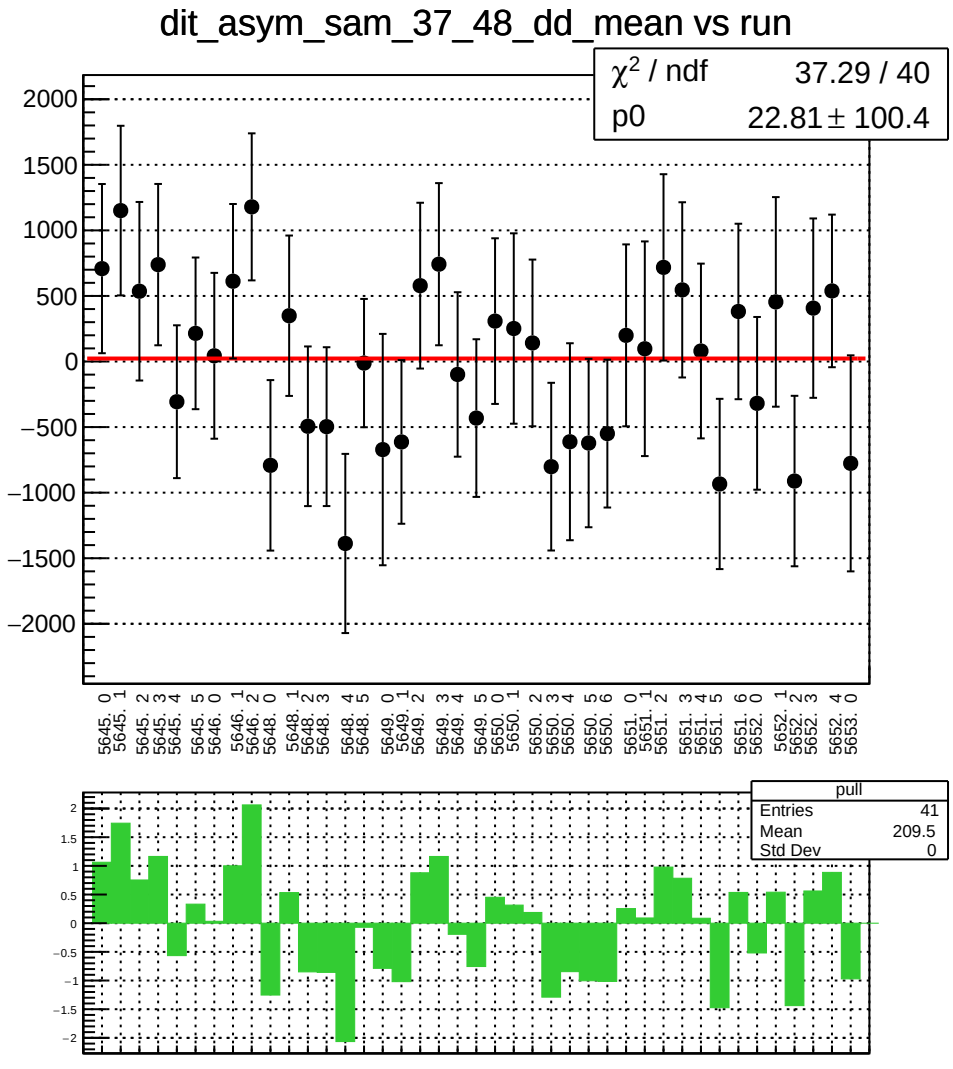

pull1D
Entries 41
Mean −0.001329
Std Dev 0.896

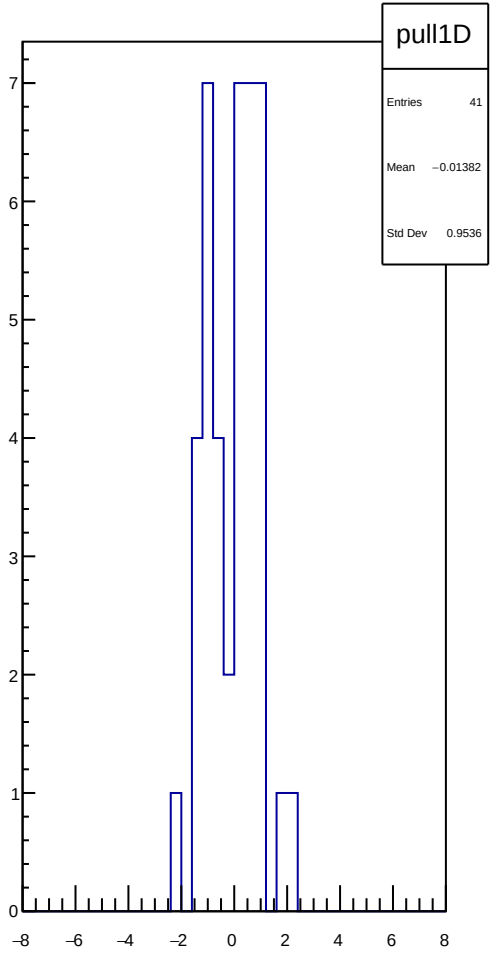

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4048 / 40
p0 53.05 ± 0.05983
70
65
60
55
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

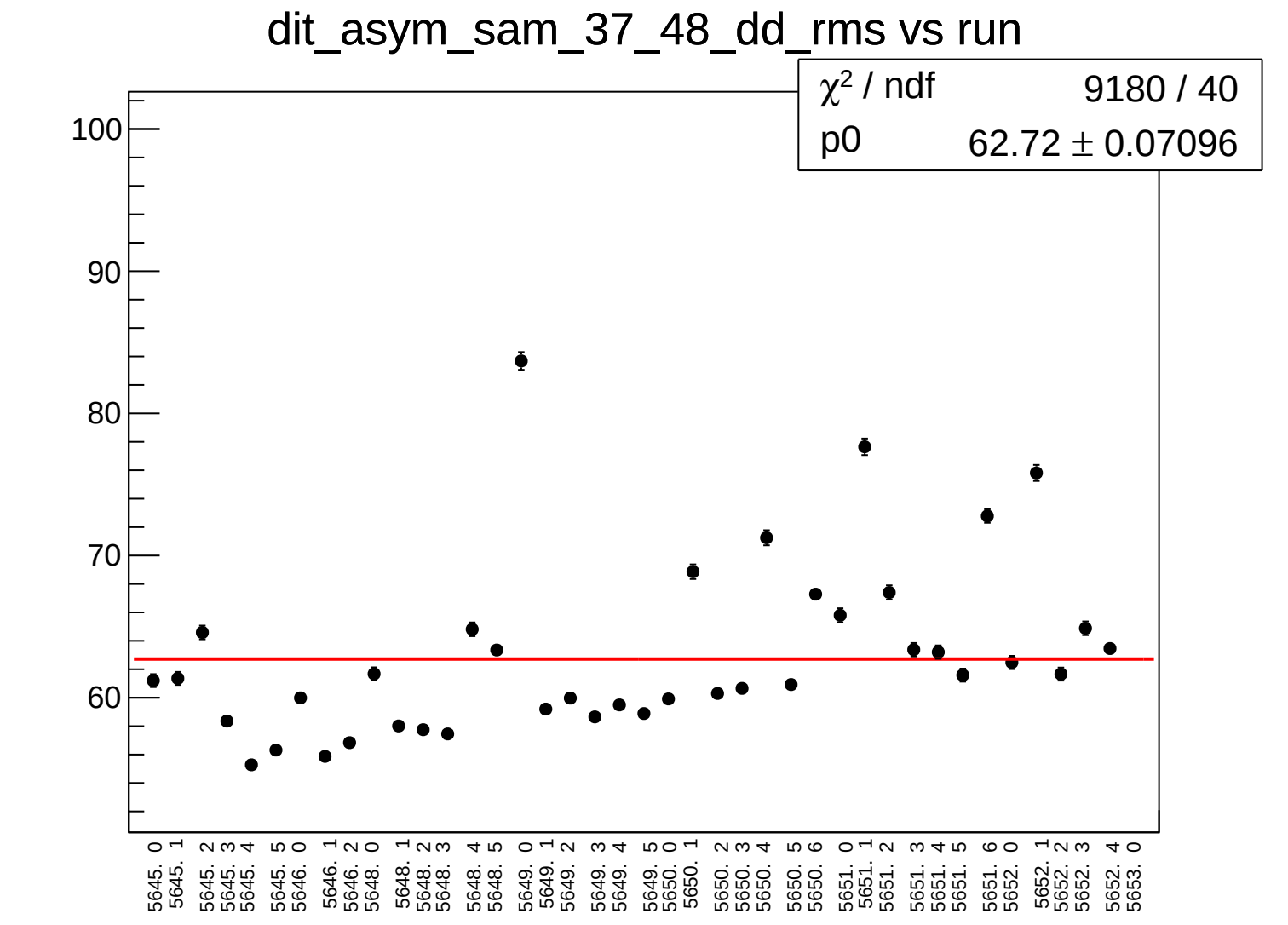

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.65 / 40
p0 −19.43 ± 391.7
pull
Entries 41
Mean −128.1
Std Dev 0

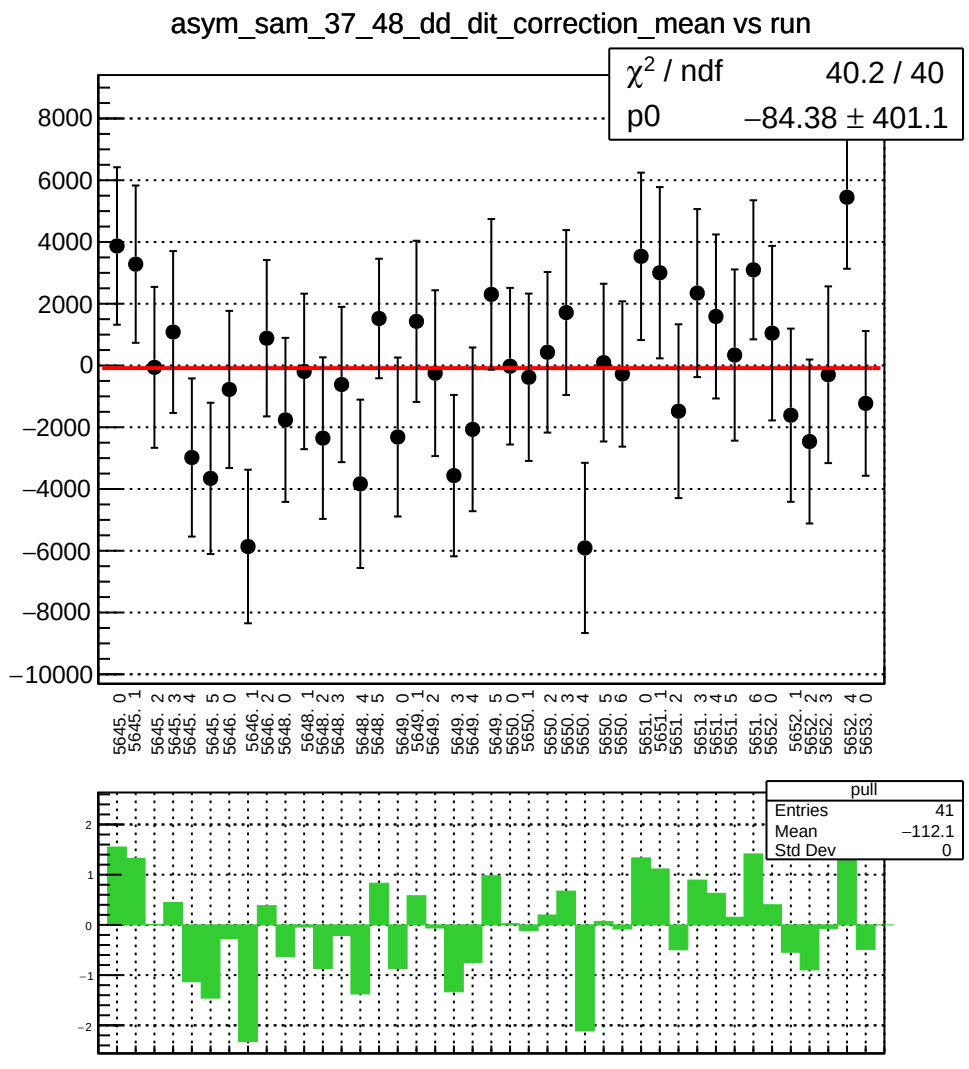

pull1D
Entries 41
Mean −0.01714
Std Dev 0.9708

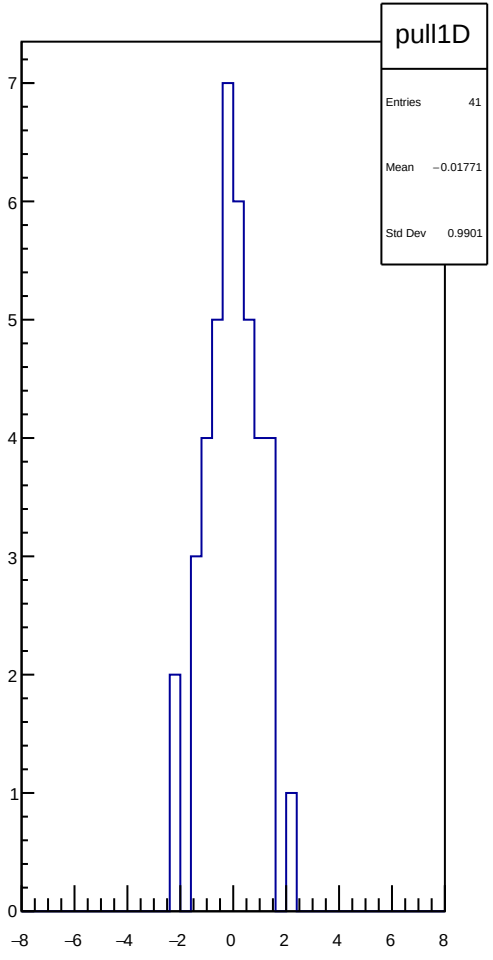

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1475 / 40
p0 246 ± 0.2769
280
270
260
250
240
230
220
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

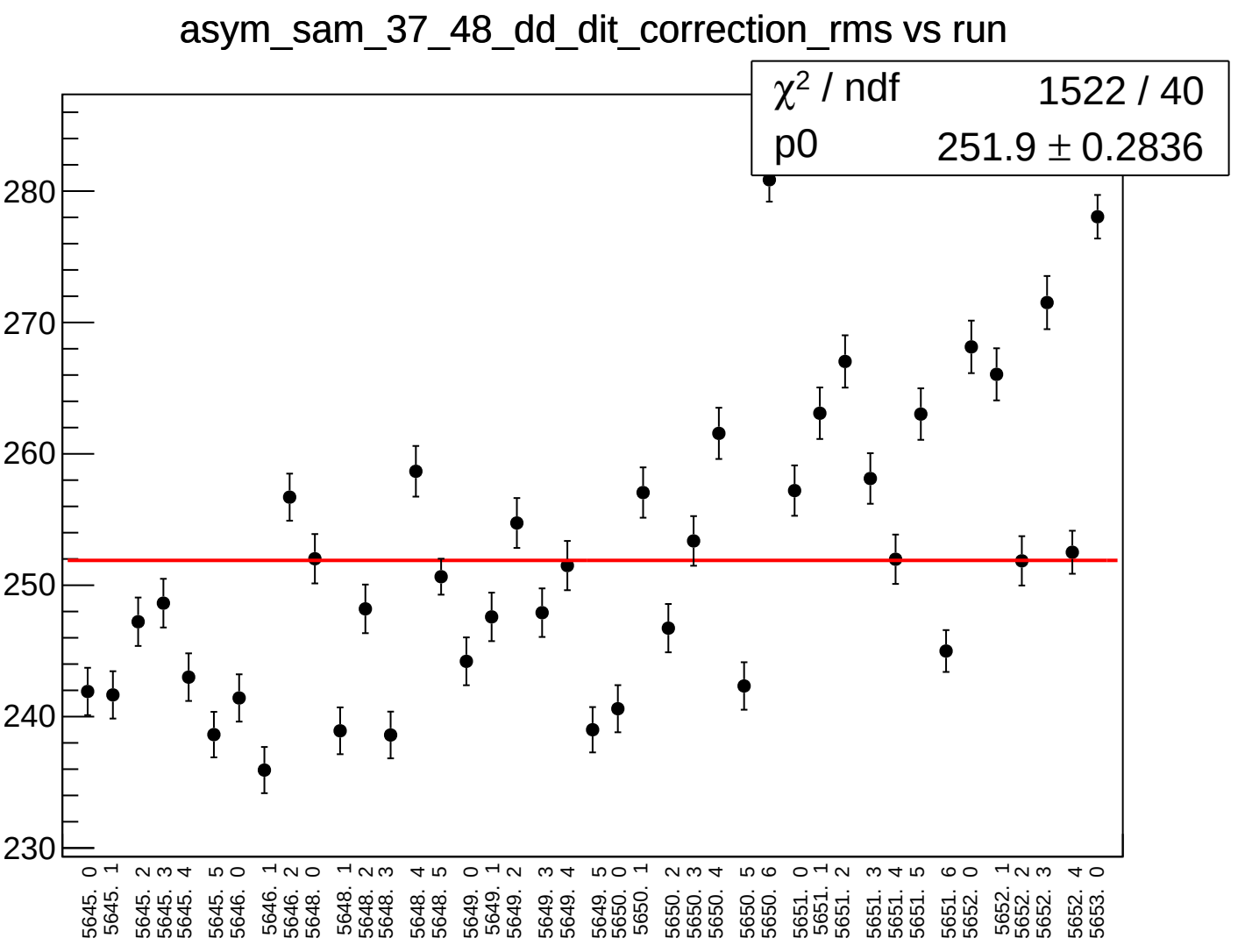

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 37.29 / 40
p0 22.81 ± 100.4
pull
Entries 41
Mean 209.5
Std Dev 0

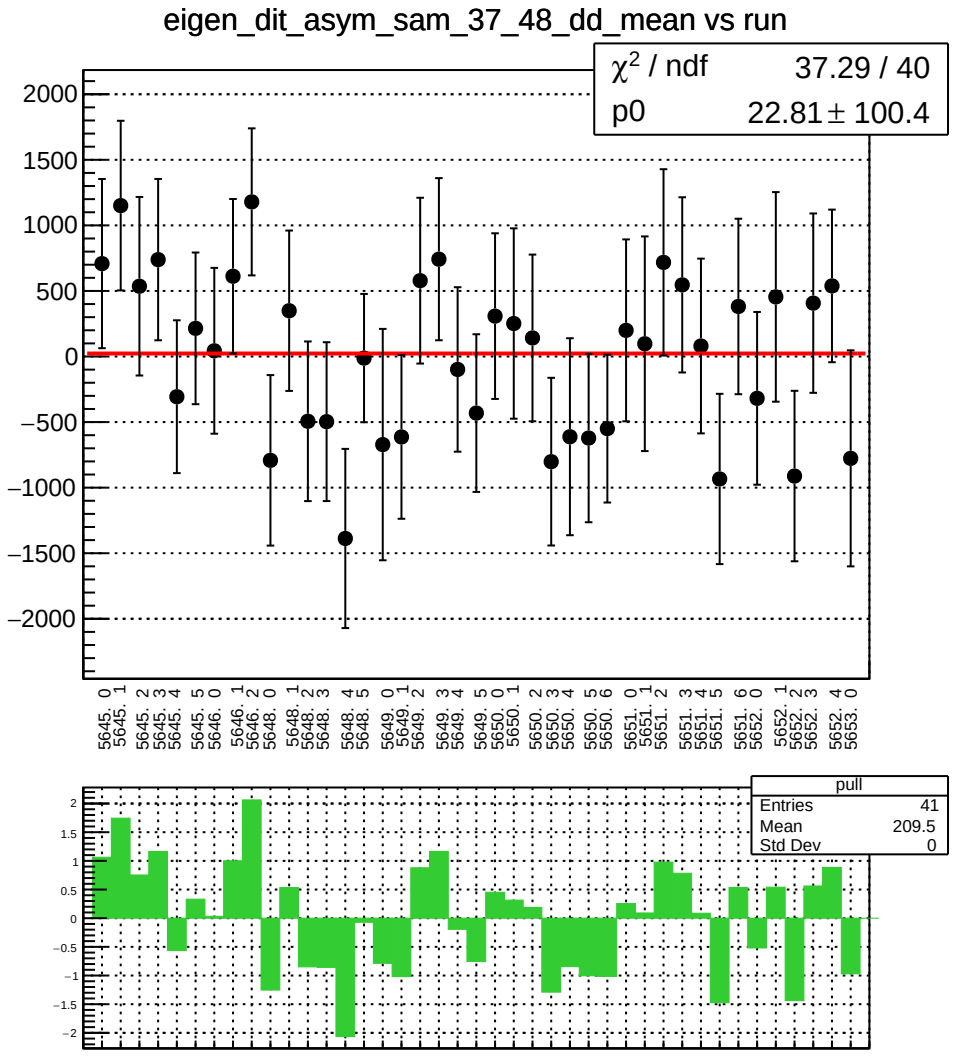

pull1D
Entries 41
Mean −0.01382
Std Dev 0.9536

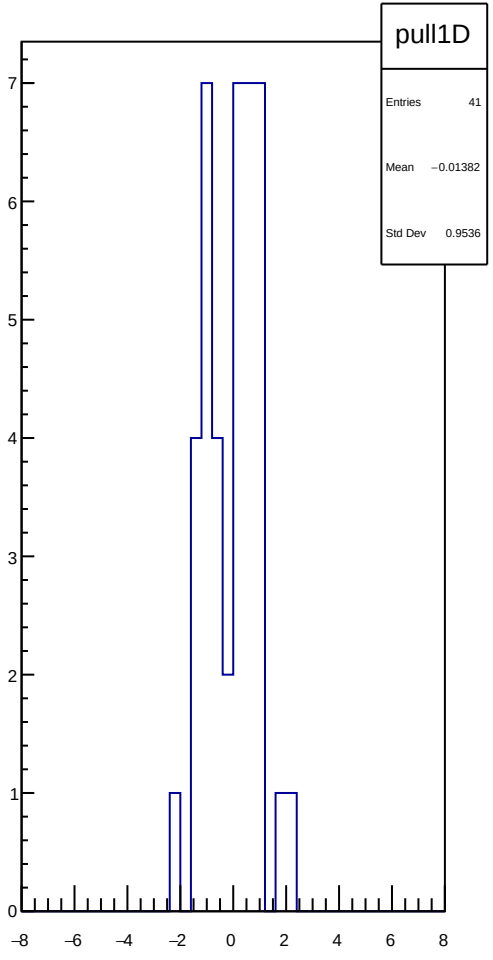

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 9180 / 40
p0 62.72 ± 0.07096
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

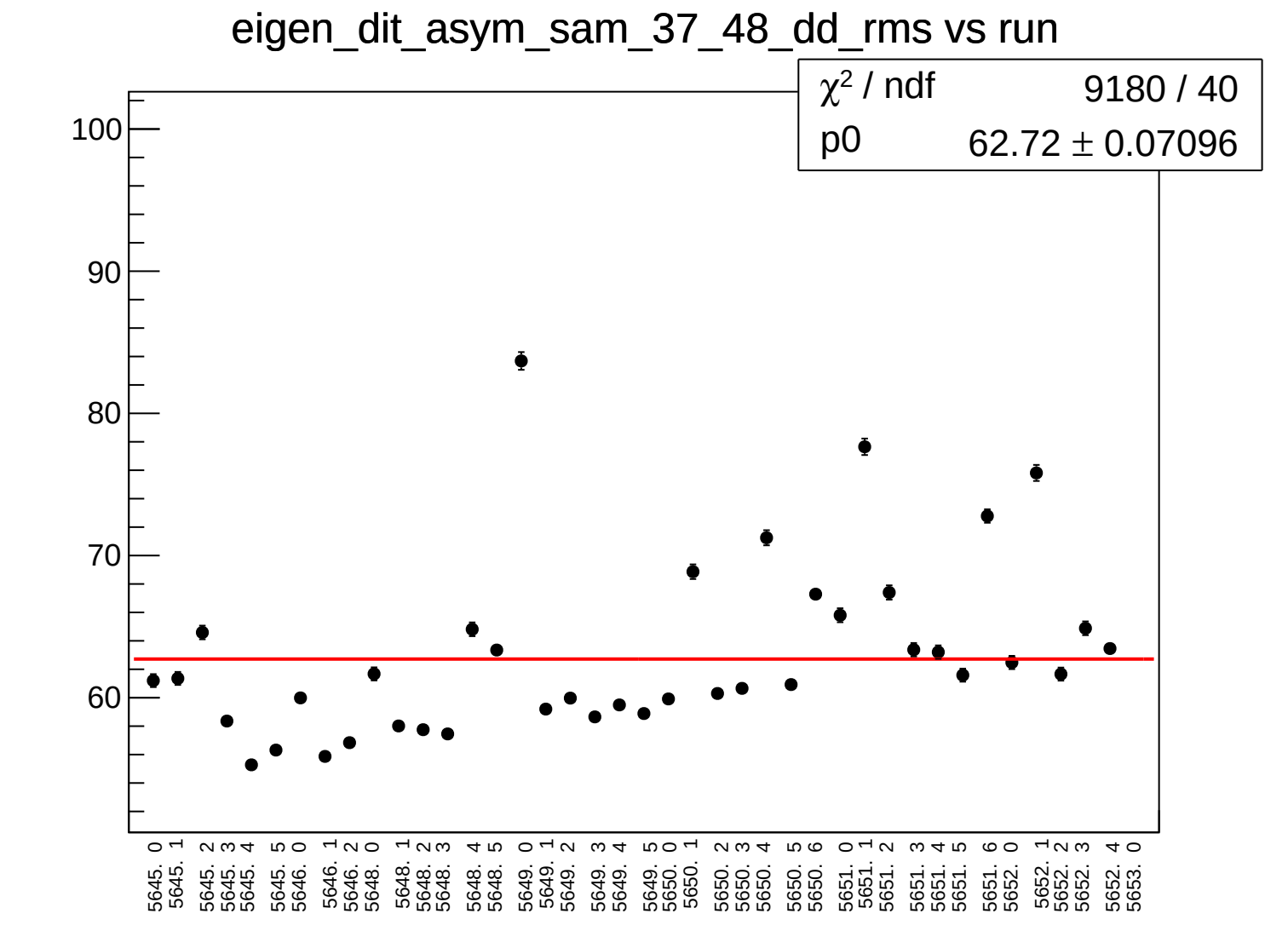

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 40.2 / 40
p0 −84.38 ± 401.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −112.1
Std Dev 0
2
1
0
−1
−2

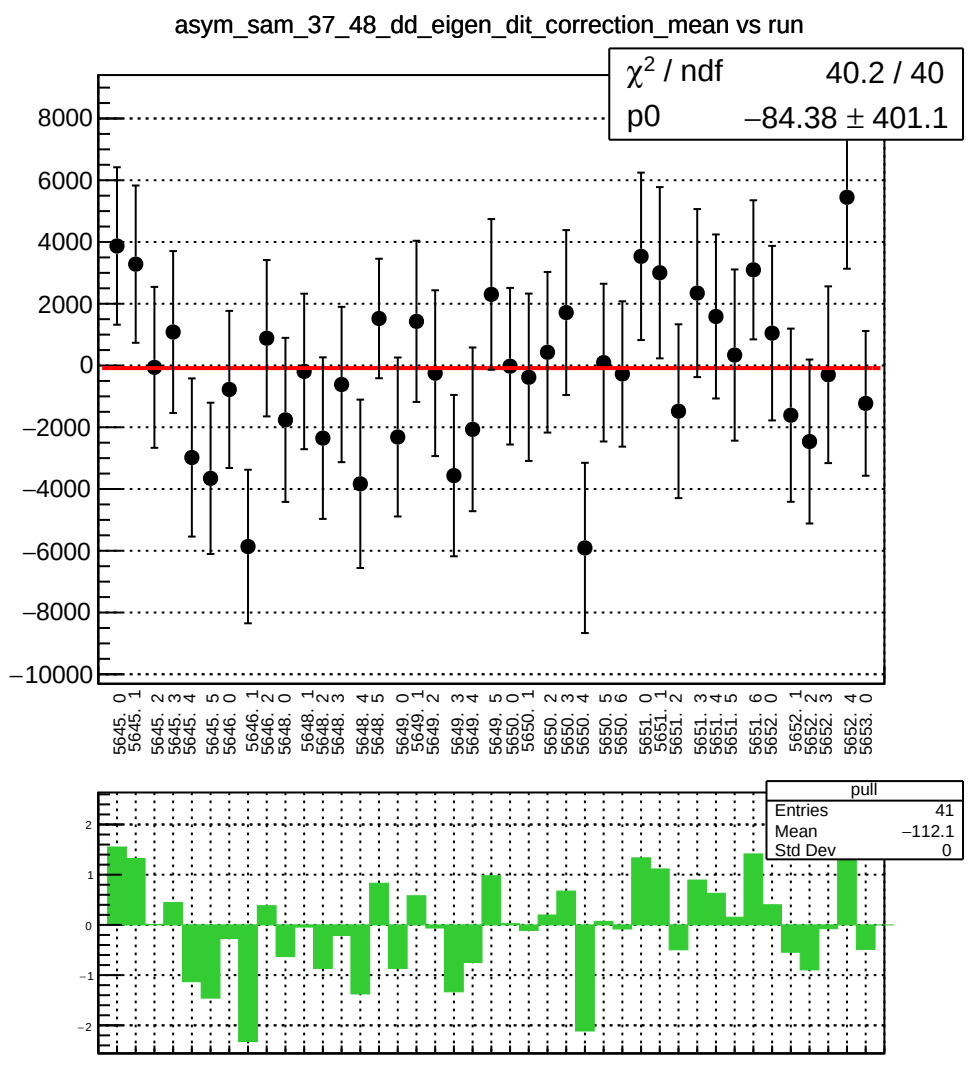

pull1D
Entries 41
Mean −0.01771
Std Dev 0.9901
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

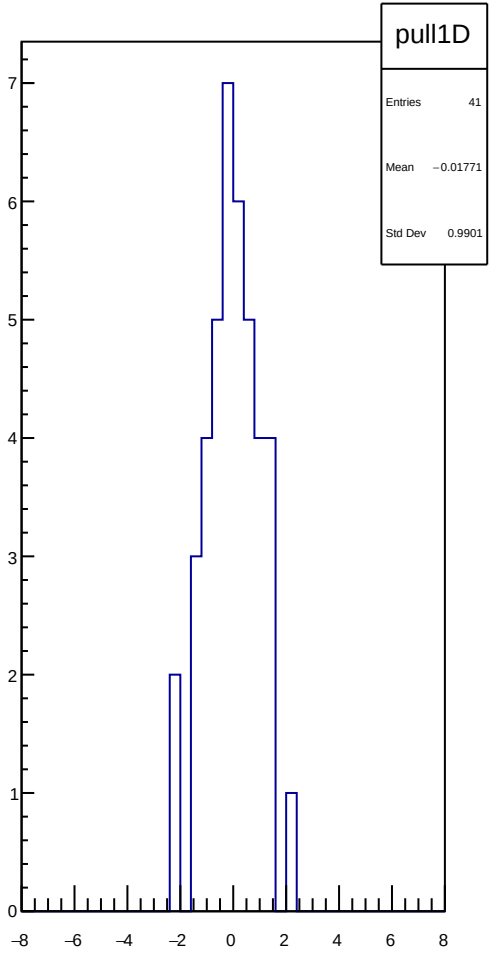

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1522 / 40
p0 251.9 ± 0.2836
280
270
260
250
240
230
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

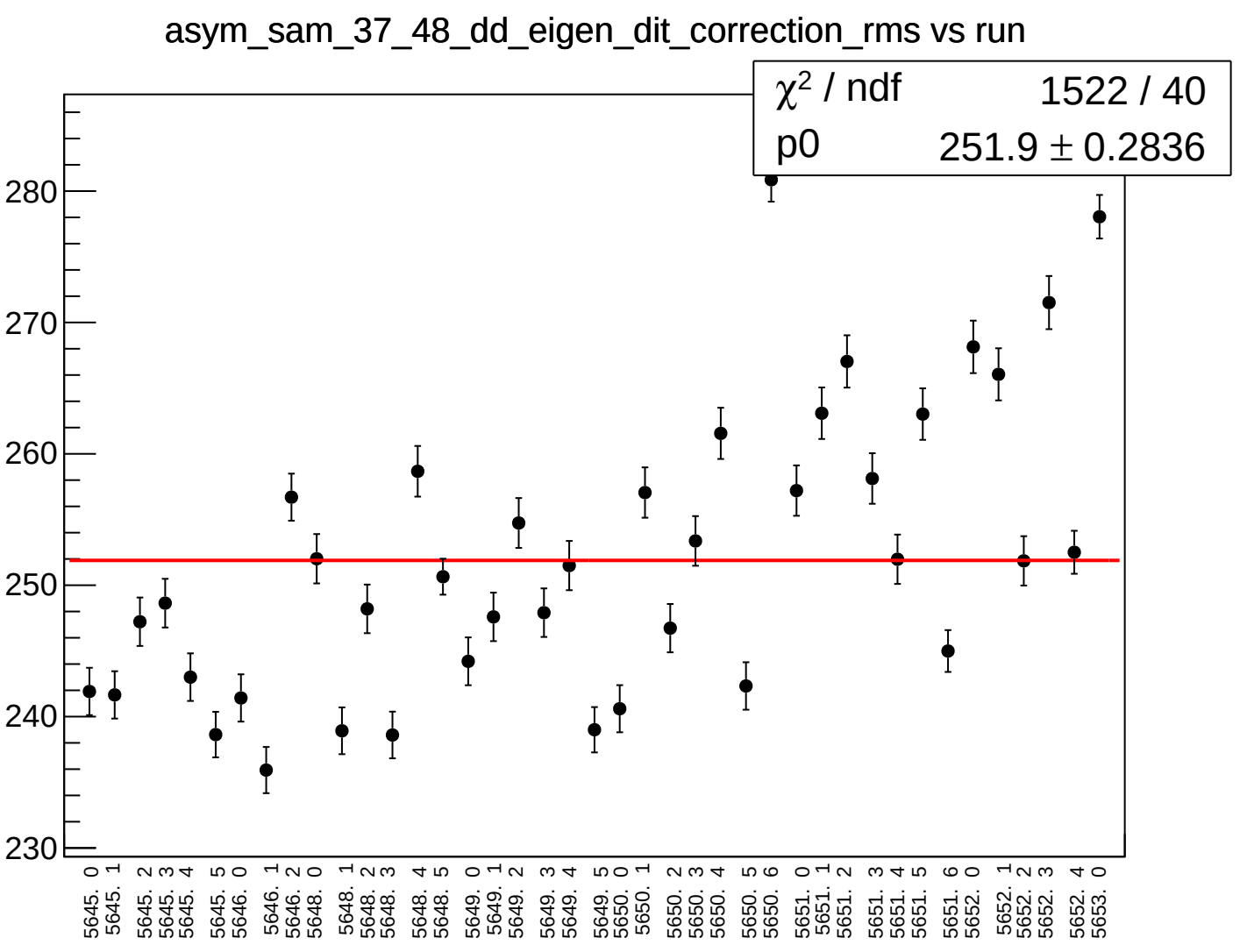

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 37.29 / 40
p0 22.81 ± 100.4
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 209.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

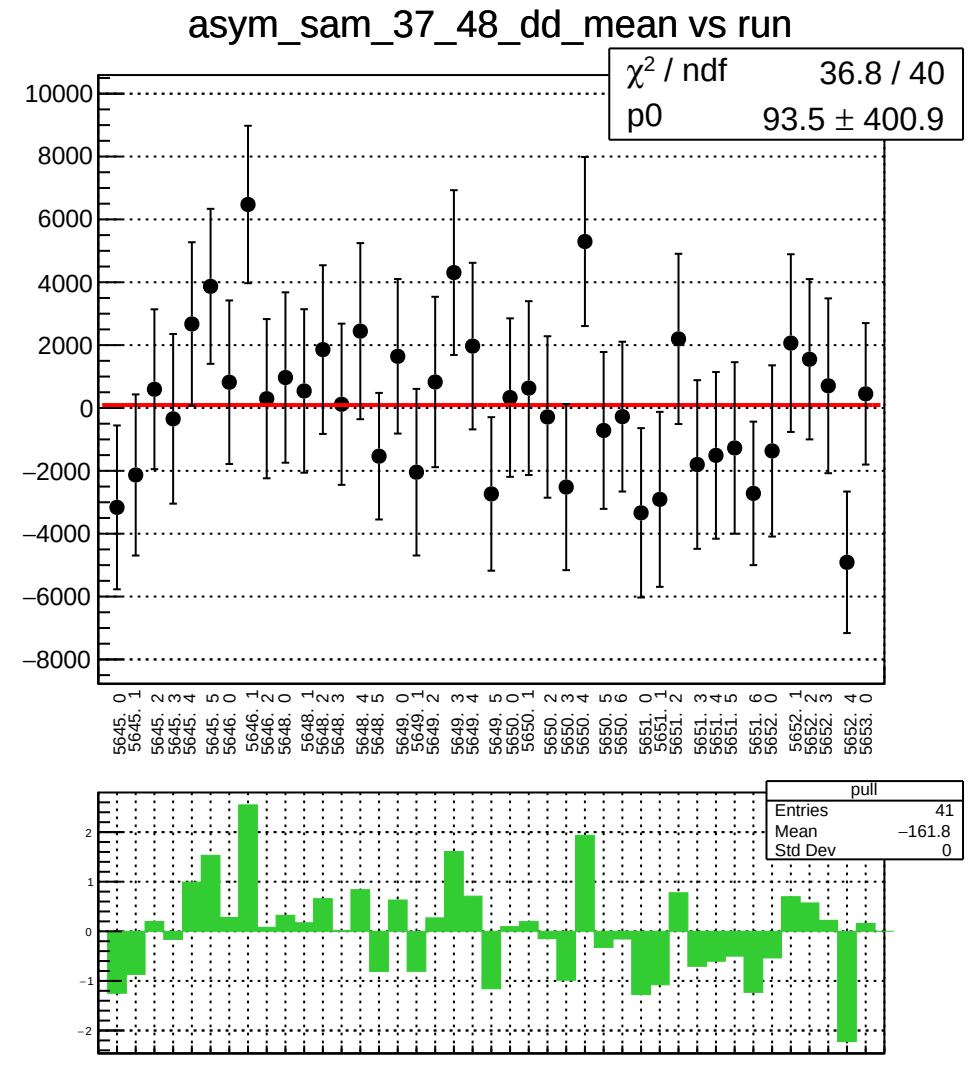

pull1D
Entries 41
Mean −0.01382
Std Dev 0.9536
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

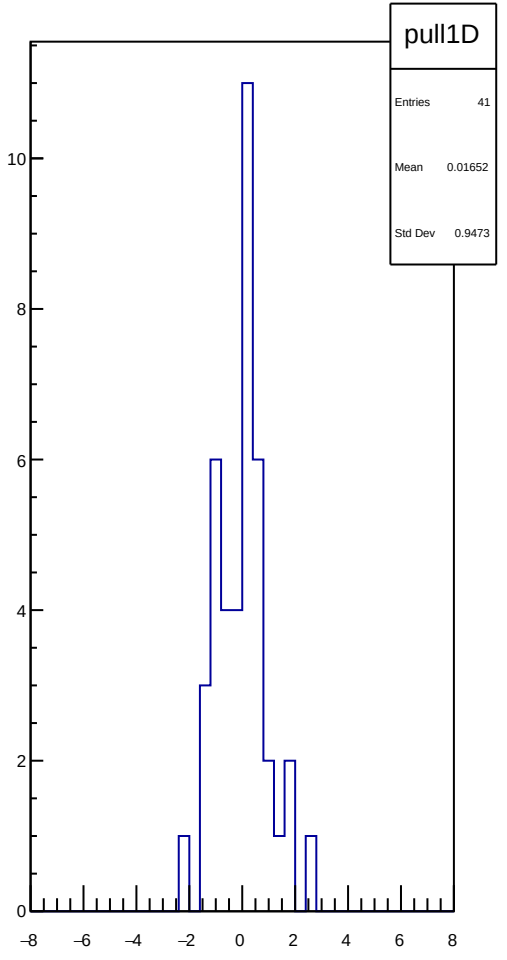

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 9180 / 40
p0 62.72 ± 0.07096
100
90
80
70
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

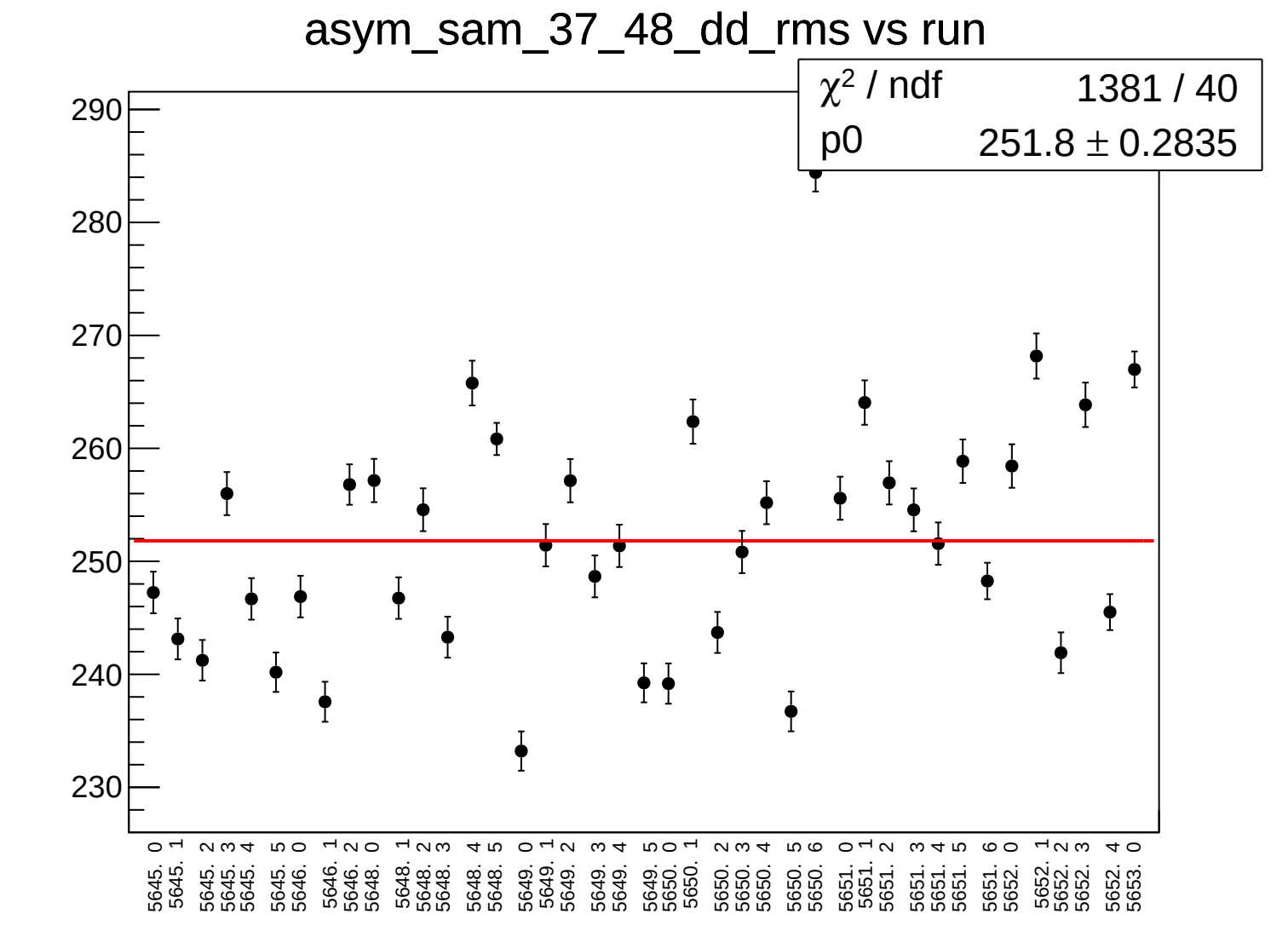

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 40.2 / 40
p0 −84.38 ± 401.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −112.1
Std Dev 0
2
1
0
−1
−2

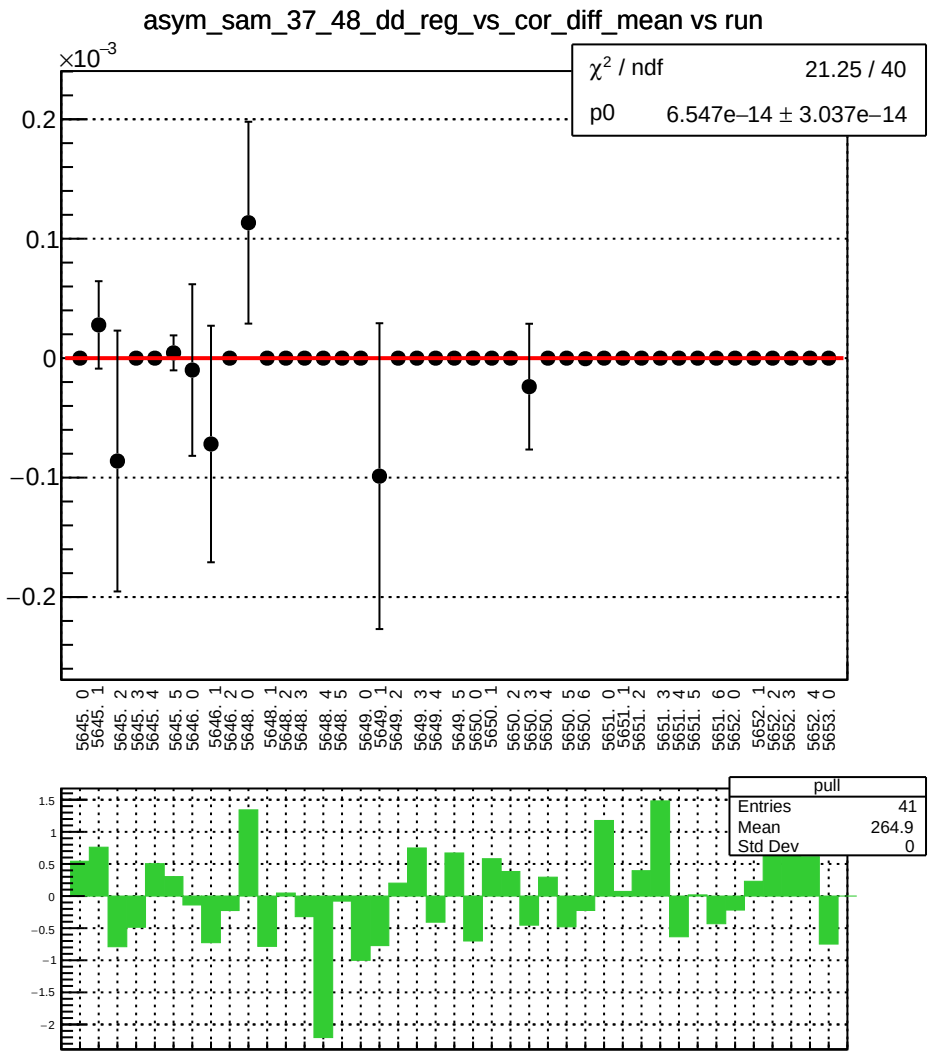

pull1D
Entries 41
Mean −0.01771
Std Dev 0.9901
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

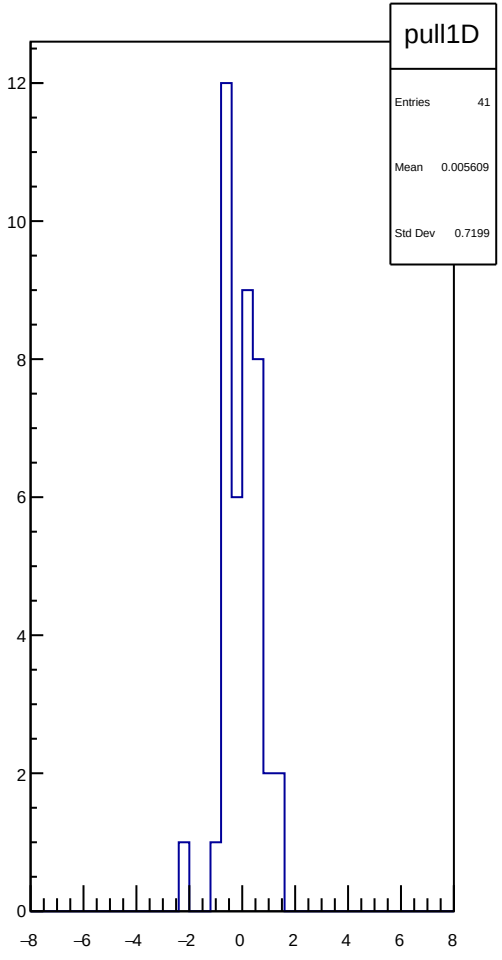

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1522 / 40
p0 251.9 ± 0.2836
280
270
260
250
240
230
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

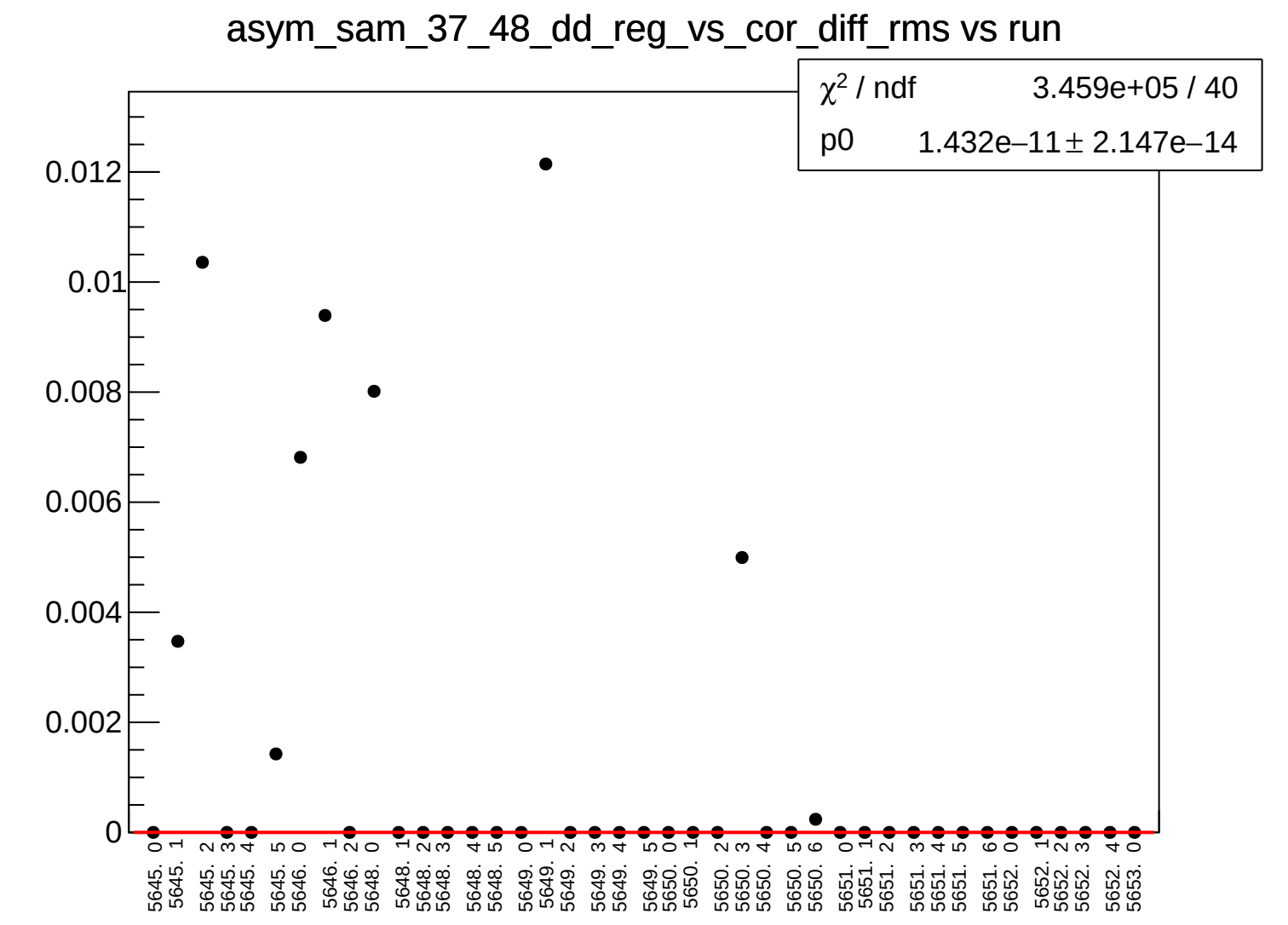

asym_sam_37_48_dd_mean vs run
χ² / ndf 36.8 / 40
p0 93.5 ± 400.9
pull
Entries 41
Mean −161.8
Std Dev 0

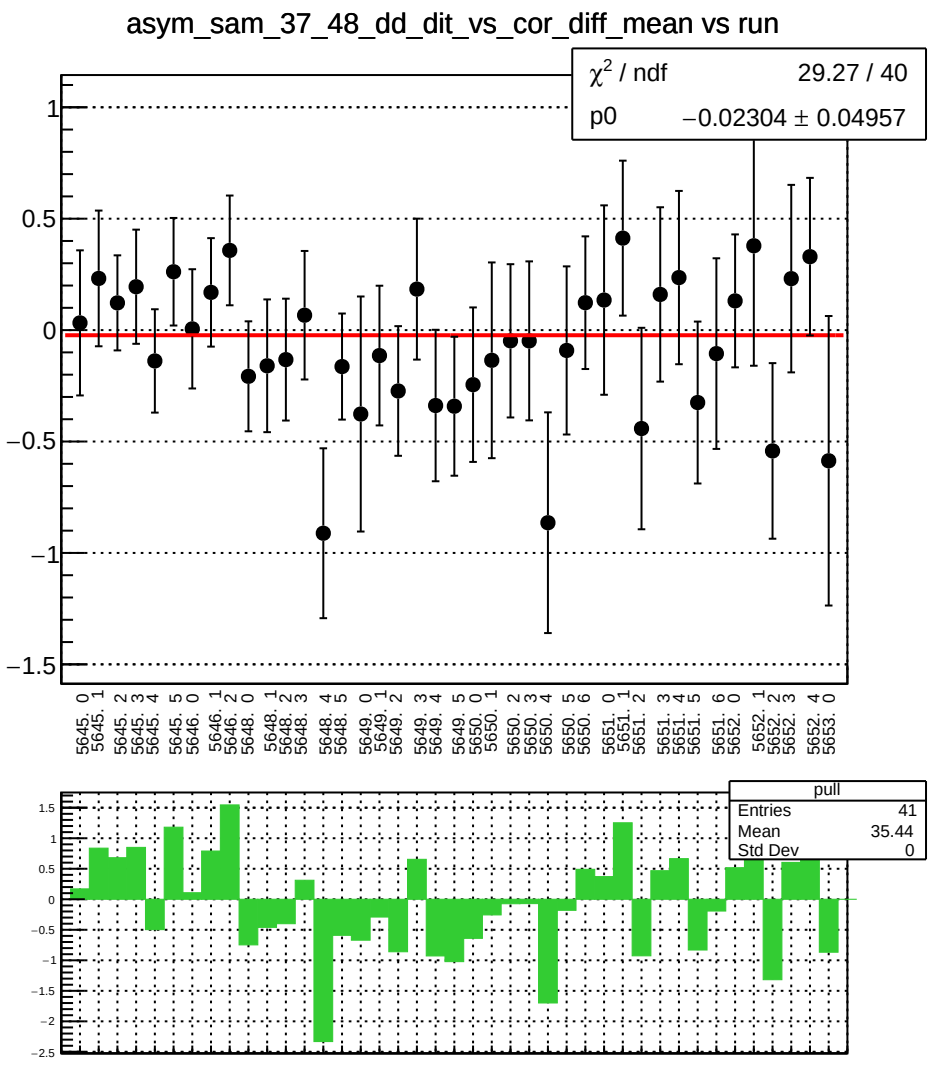

pull1D
Entries 41
Mean 0.01652
Std Dev 0.9473

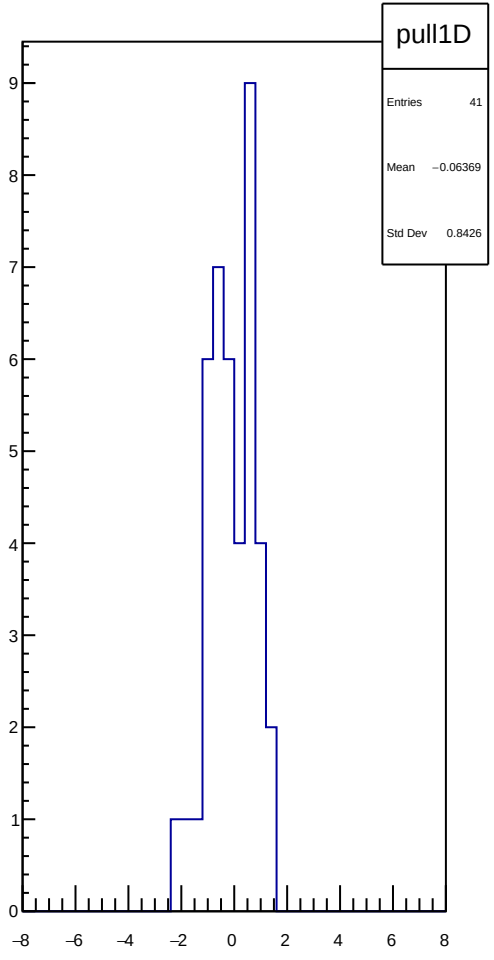

asym_sam_37_48_dd_rms vs run
χ² / ndf 1381 / 40
p0 251.8 ± 0.2835
290
280
270
260
250
240
230
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

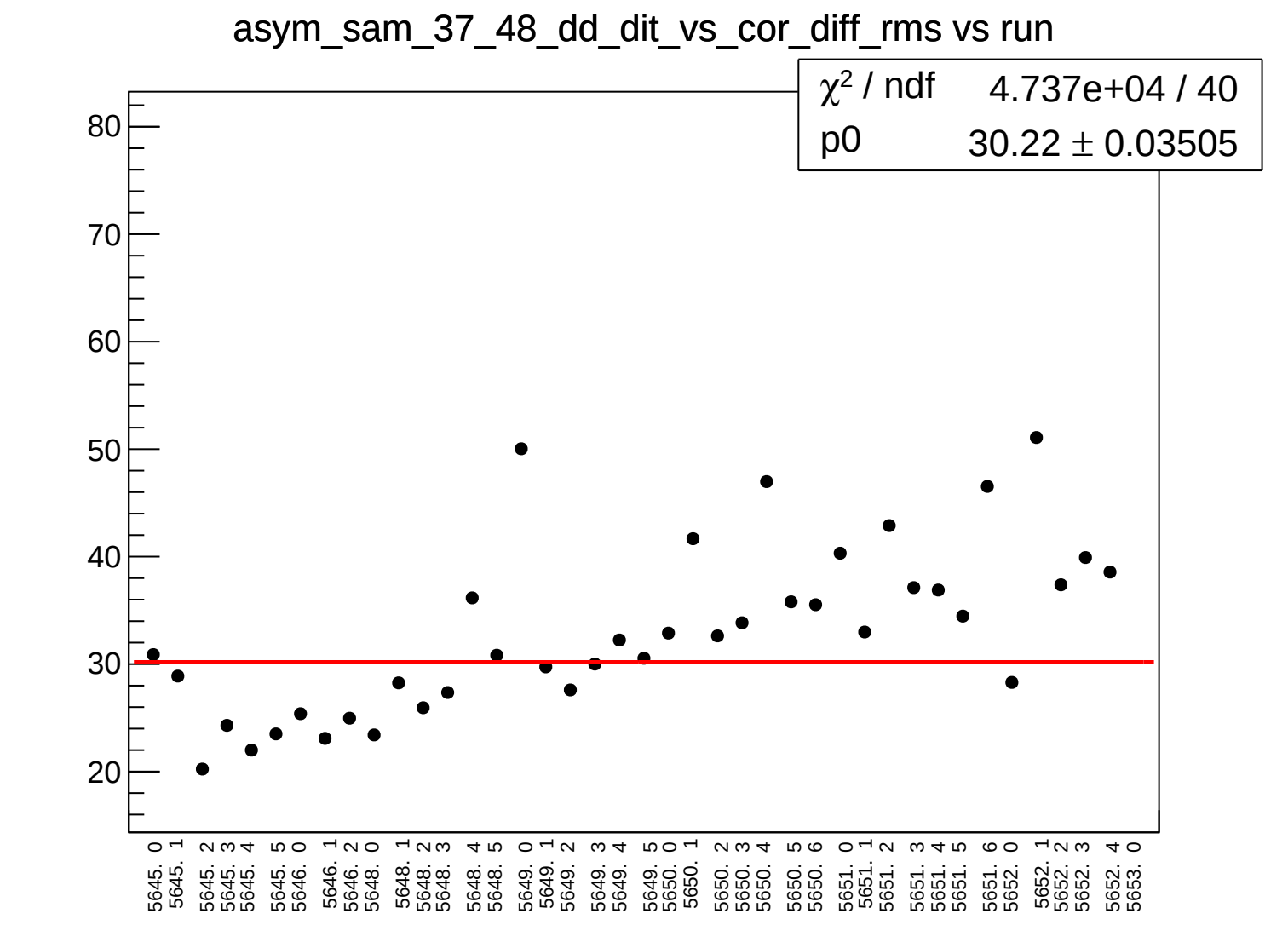

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 21.25 / 40
p0 6.547e−14 ± 3.037e−14
0.2
0.1
0
−0.1
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 264.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

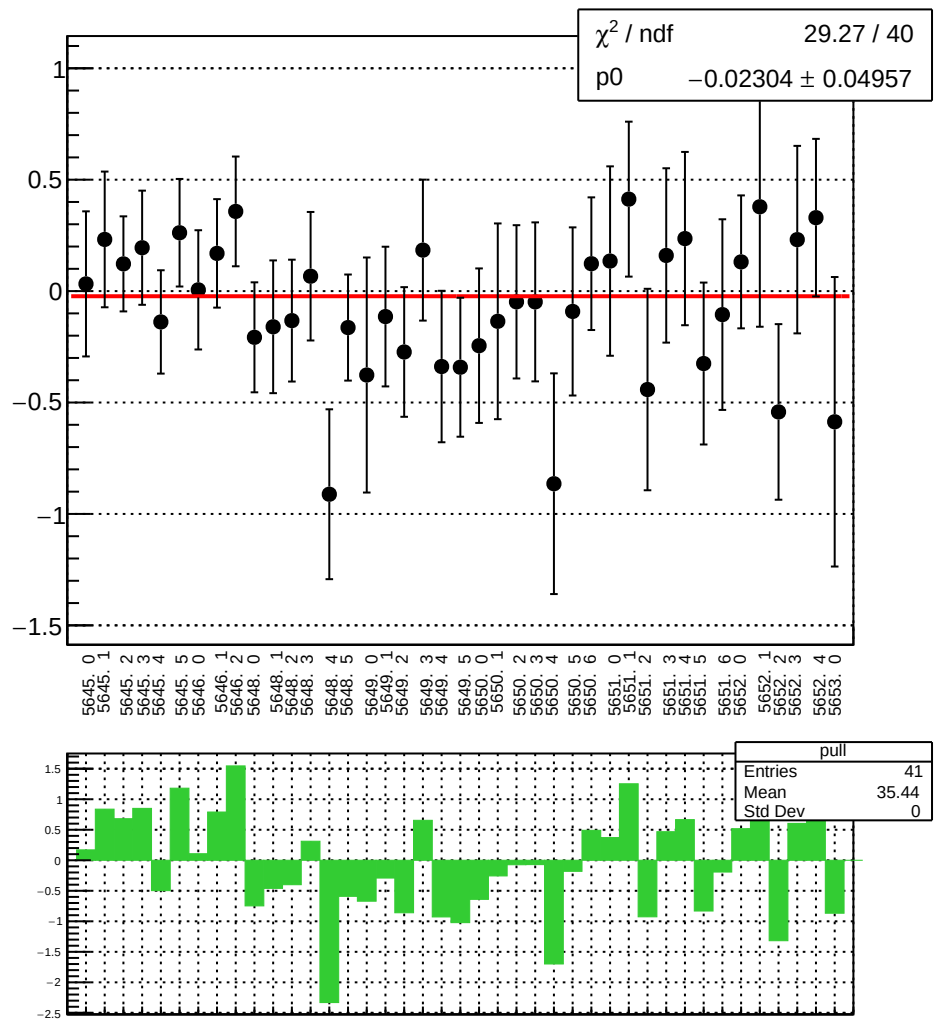

pull1D
Entries 41
Mean 0.005609
Std Dev 0.7199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

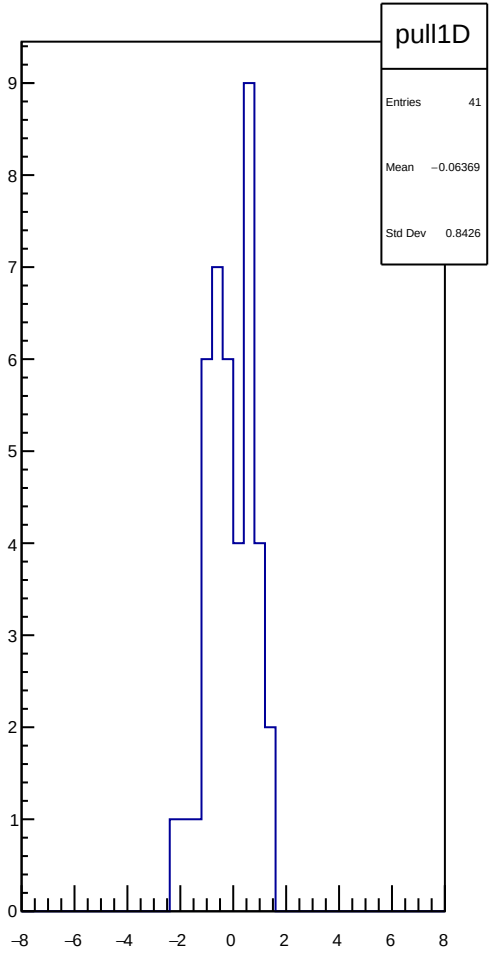

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.459e+05 / 40
p0 1.432e−11 ± 2.147e−14
0.012
0.01
0.008
0.006
0.004
0.002
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

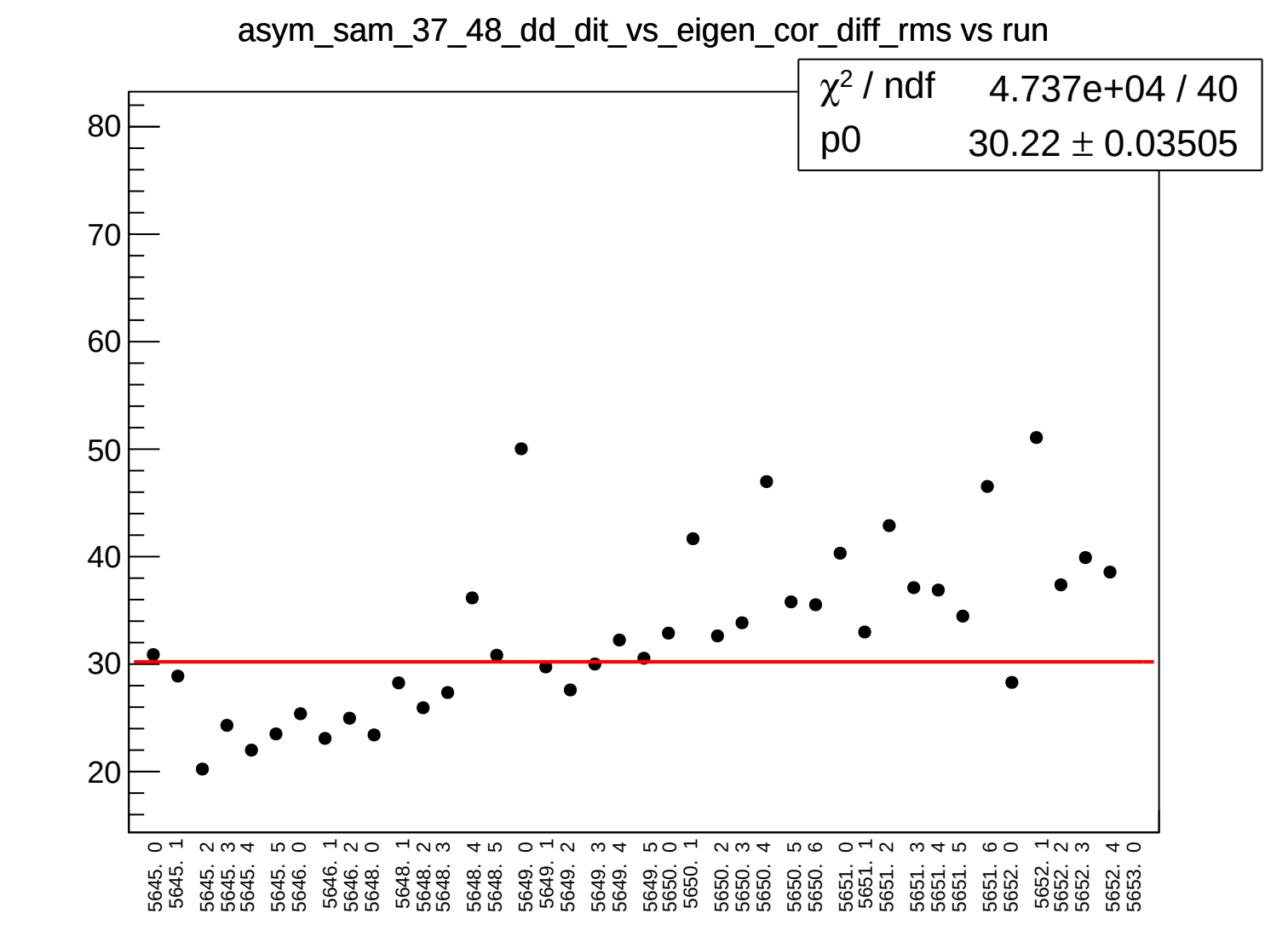

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 29.27 / 40
p0 −0.02304 ± 0.04957
pull
Entries 41
Mean 35.44
Std Dev 0

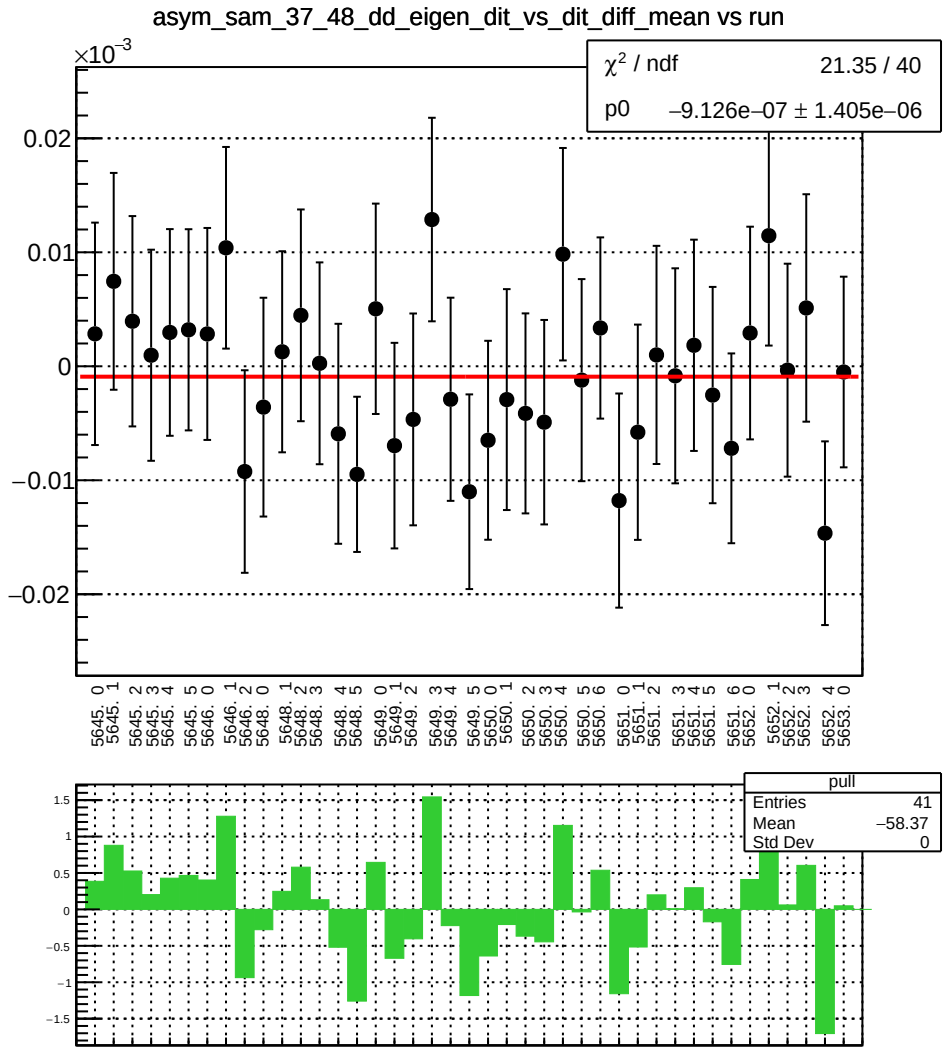

pull1D
Entries 41
Mean −0.06369
Std Dev 0.8426

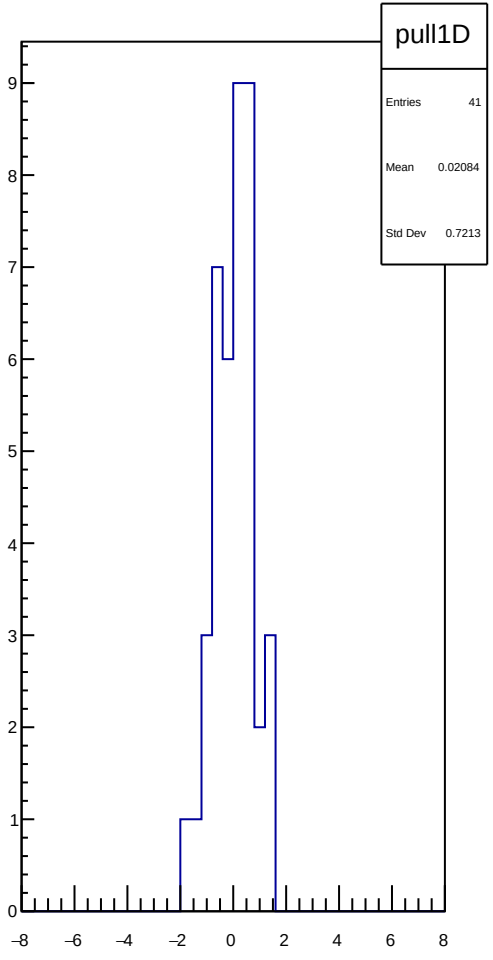

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.737e+04 / 40
p0 30.22 ± 0.03505
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

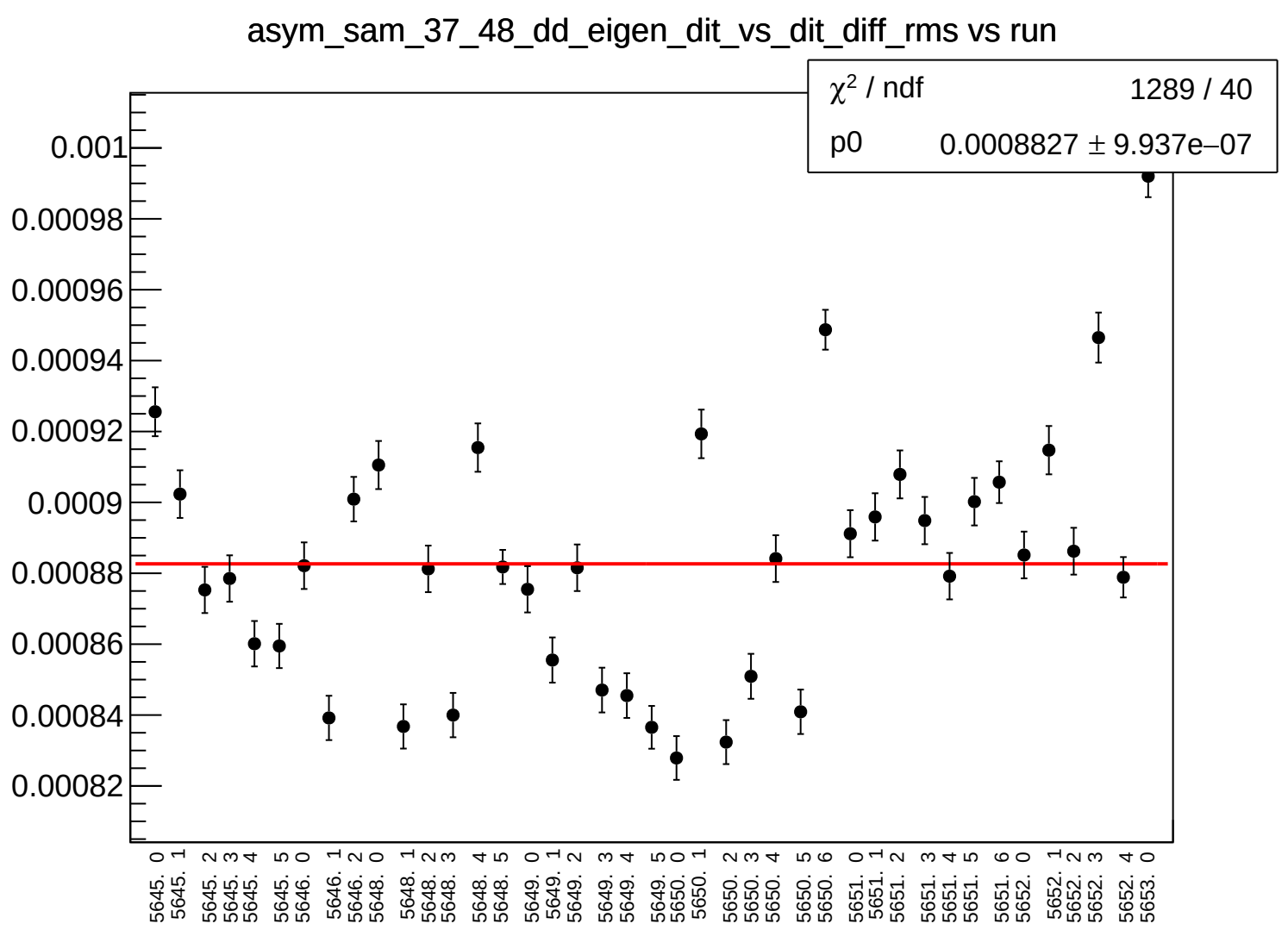

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.27 / 40
p0 −0.02304 ± 0.04957
pull
Entries 41
Mean 35.44
Std Dev 0

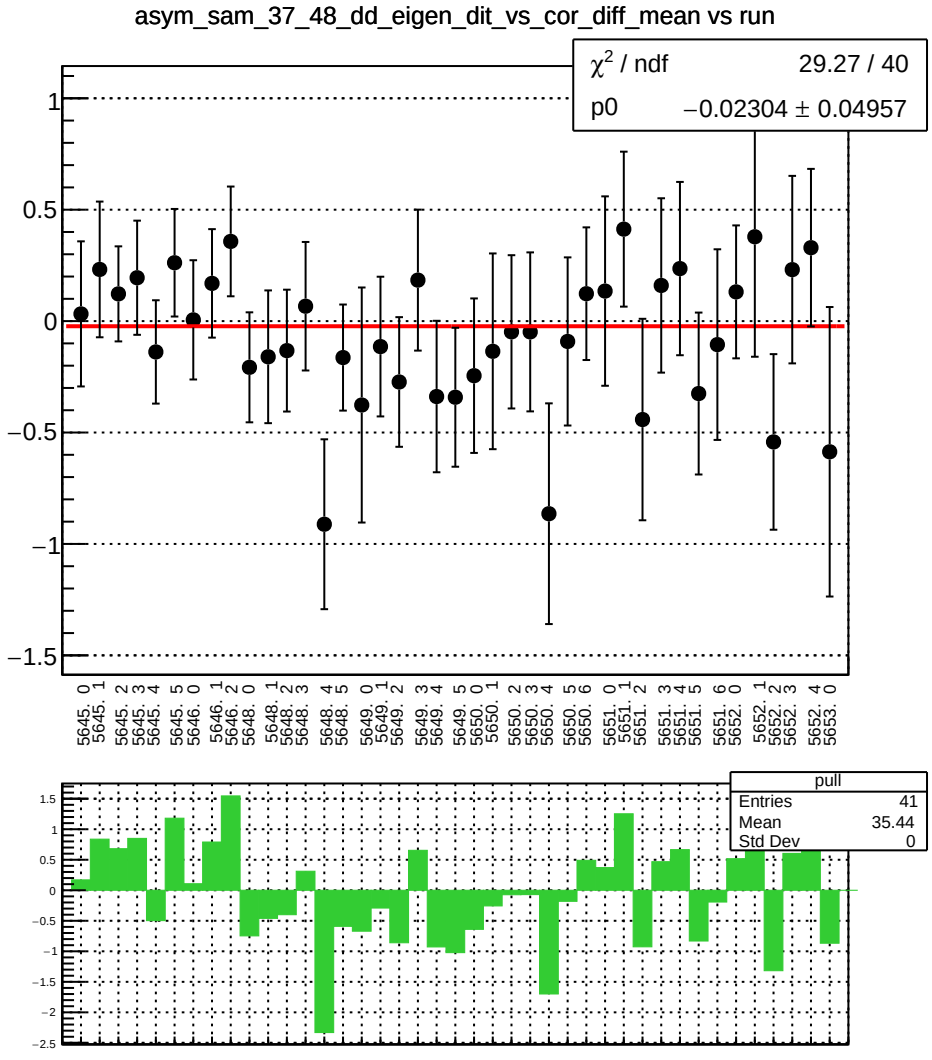

pull1D
Entries 41
Mean −0.06369
Std Dev 0.8426

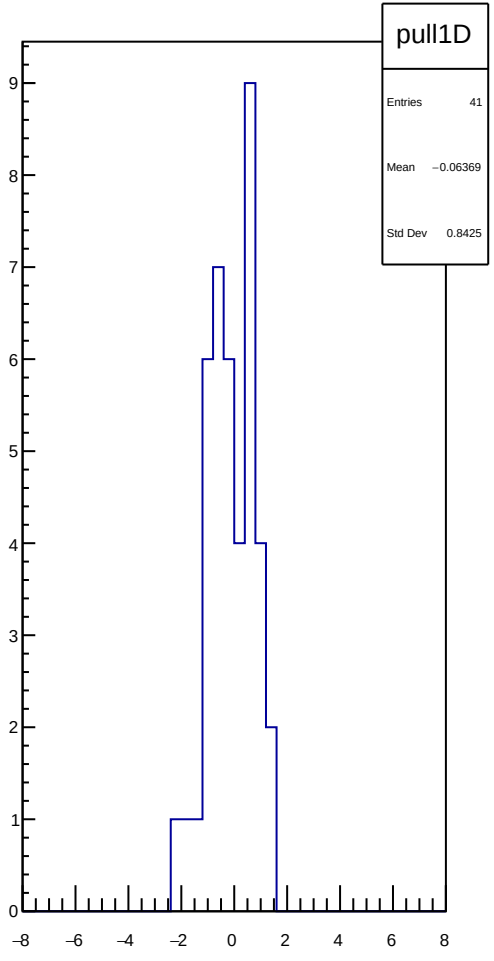

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.737e+04 / 40
p0 30.22 ± 0.03505
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

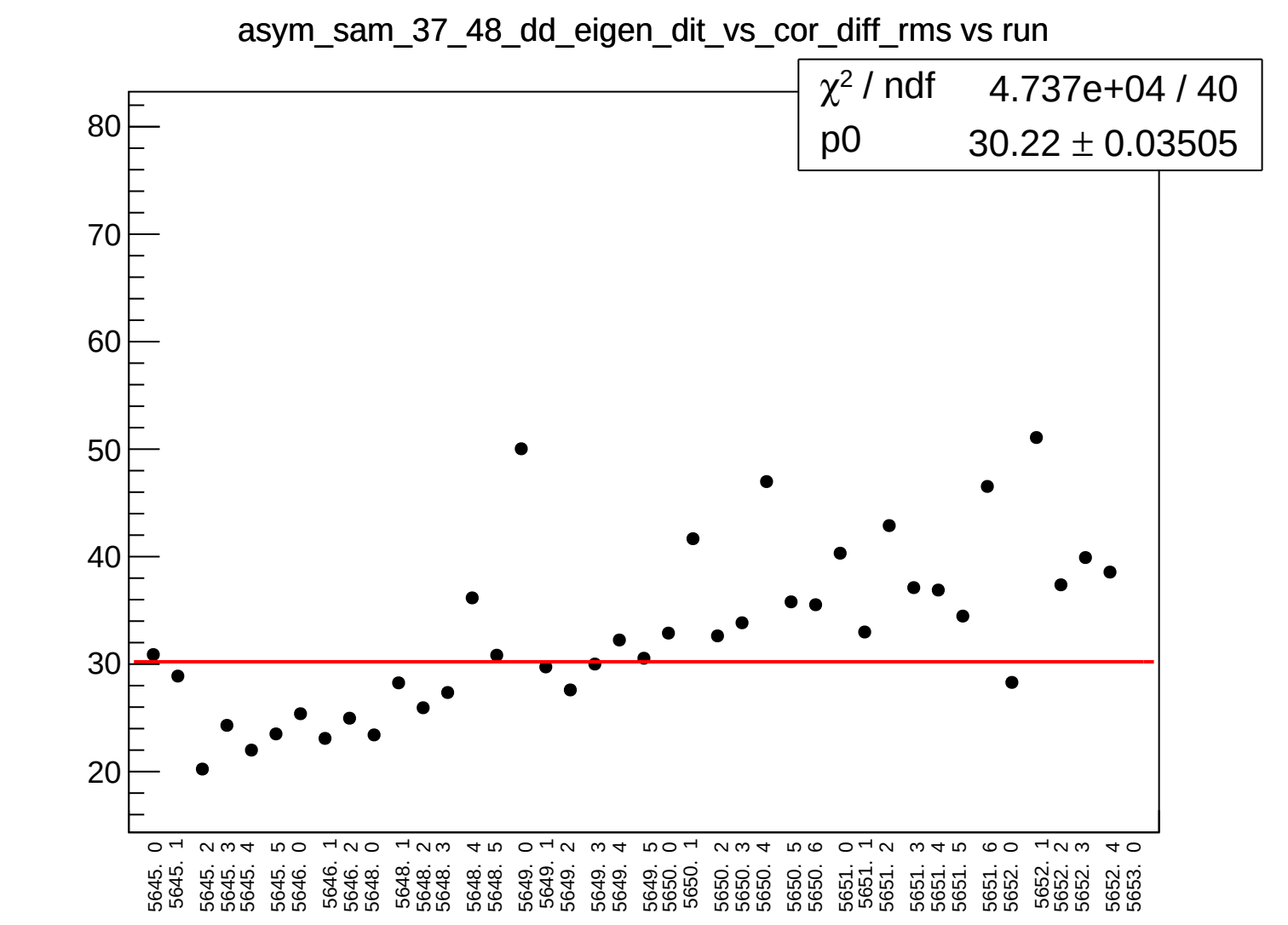

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 21.35 / 40
p0 −9.126e−07 ± 1.405e−06
0.02
0.01
0
−0.01
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −58.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

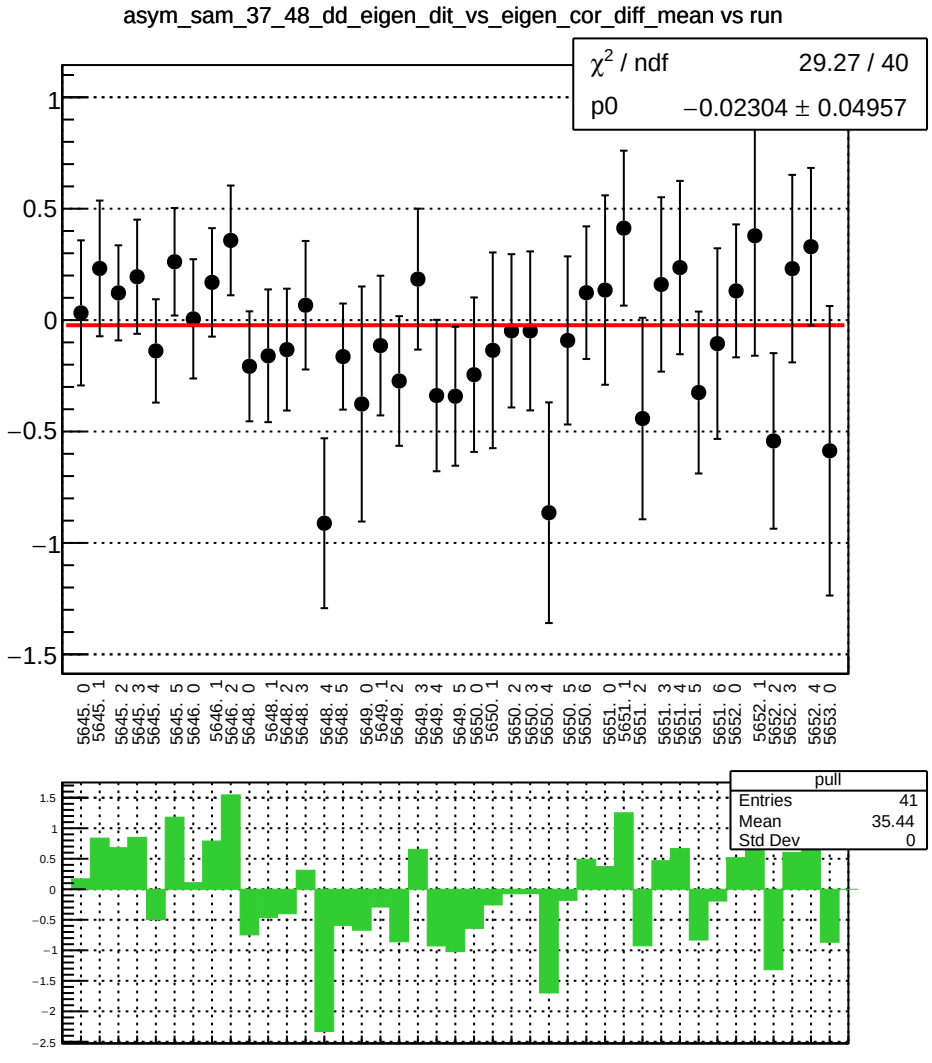

pull1D
Entries 41
Mean 0.02084
Std Dev 0.7213
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

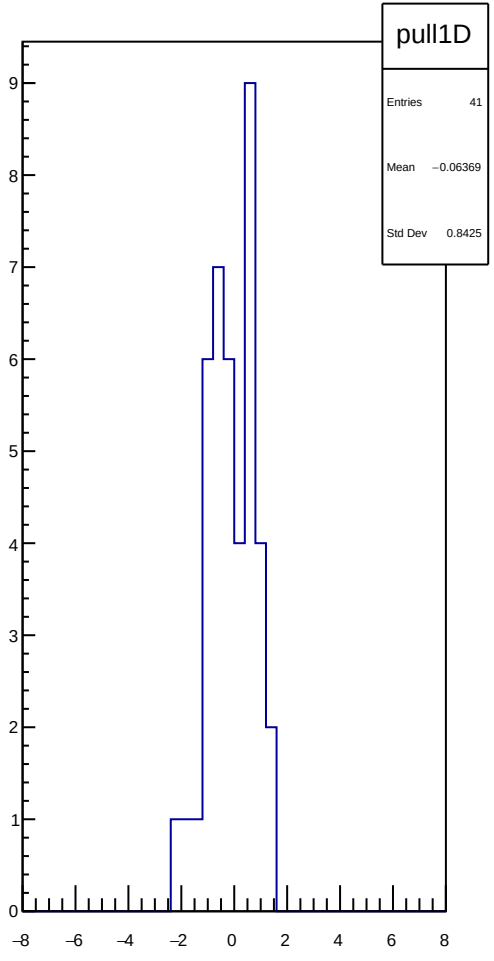

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1289 / 40
p0 0.0008827 ± 9.937e−07
0.001
0.00098
0.00096
0.00094
0.00092
0.0009
0.00088
0.00086
0.00084
0.00082
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

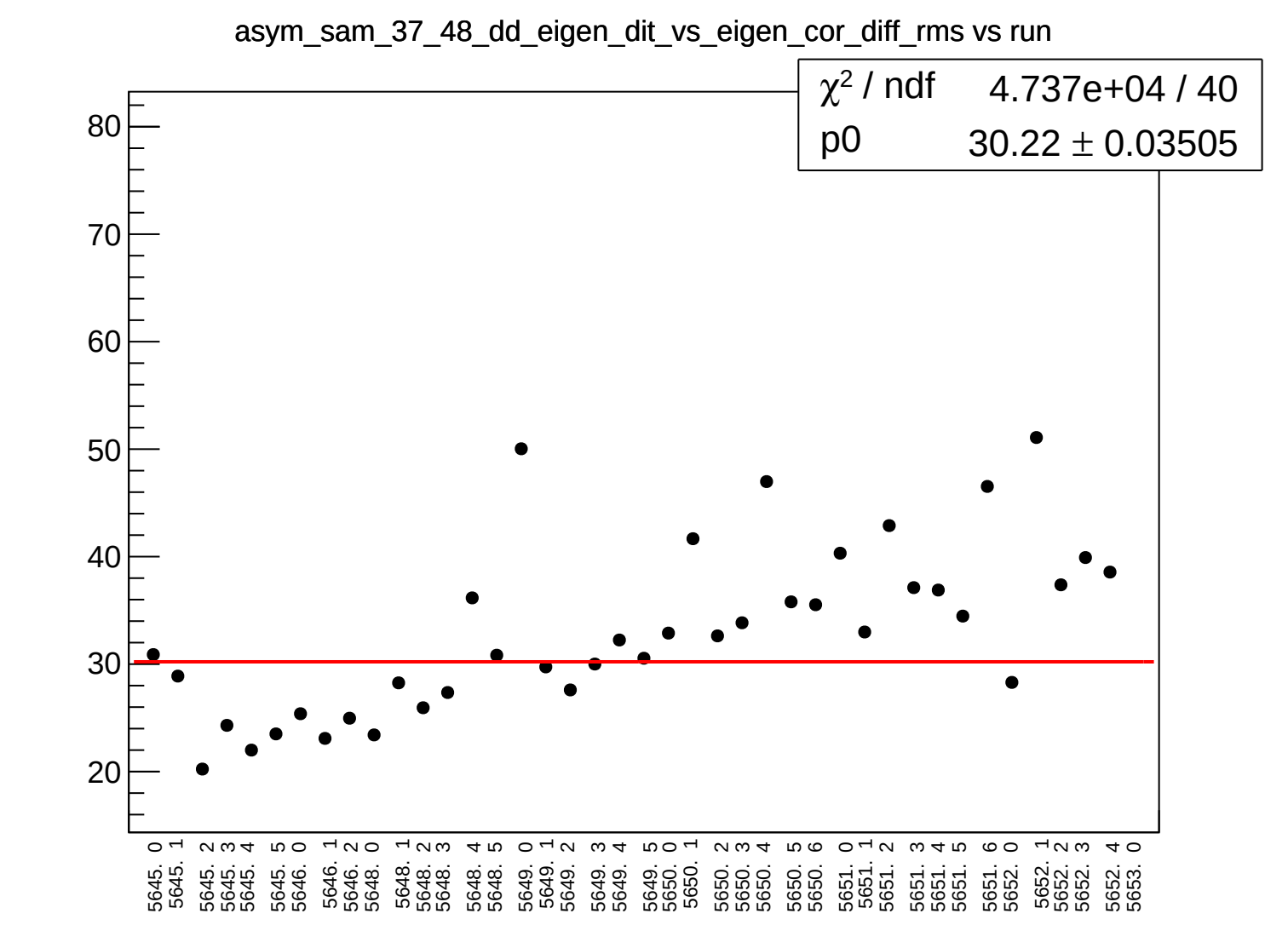

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.27 / 40
p0 −0.02304 ± 0.04957
pull
Entries 41
Mean 35.44
Std Dev 0

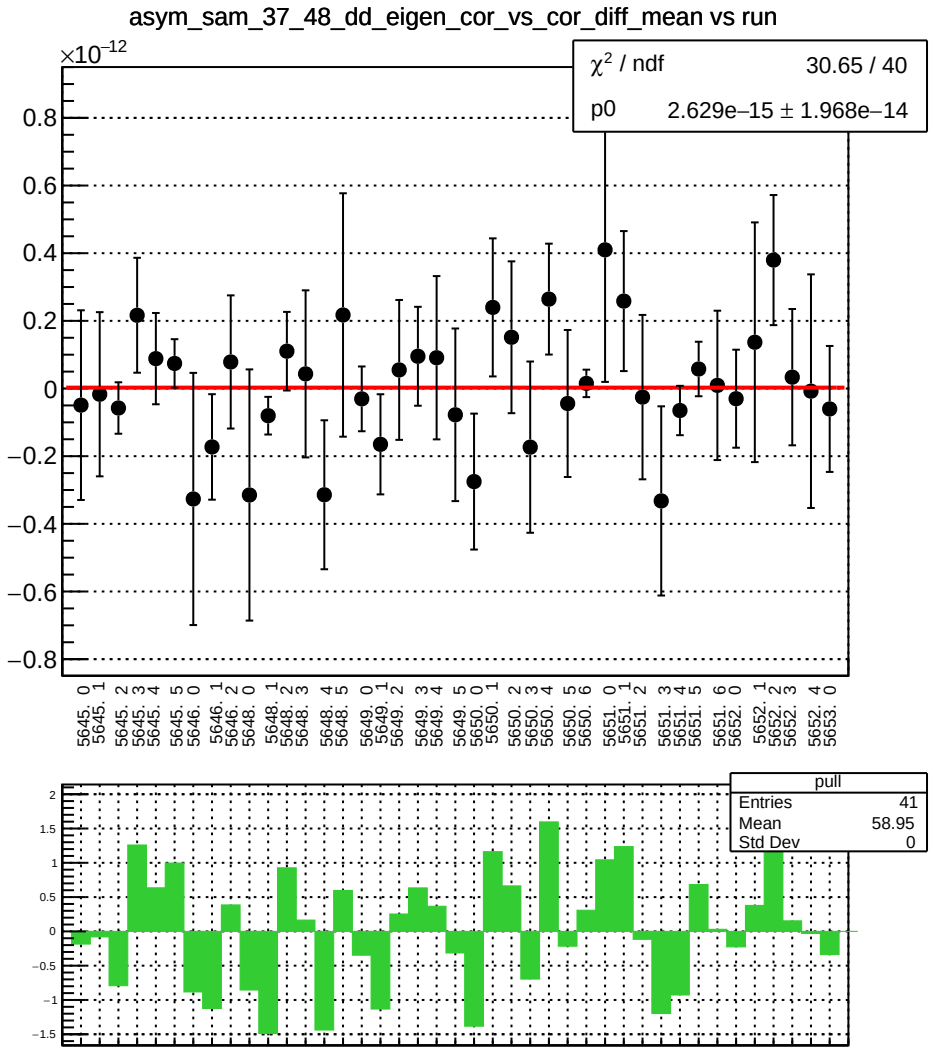

pull1D
Entries 41
Mean −0.06369
Std Dev 0.8425

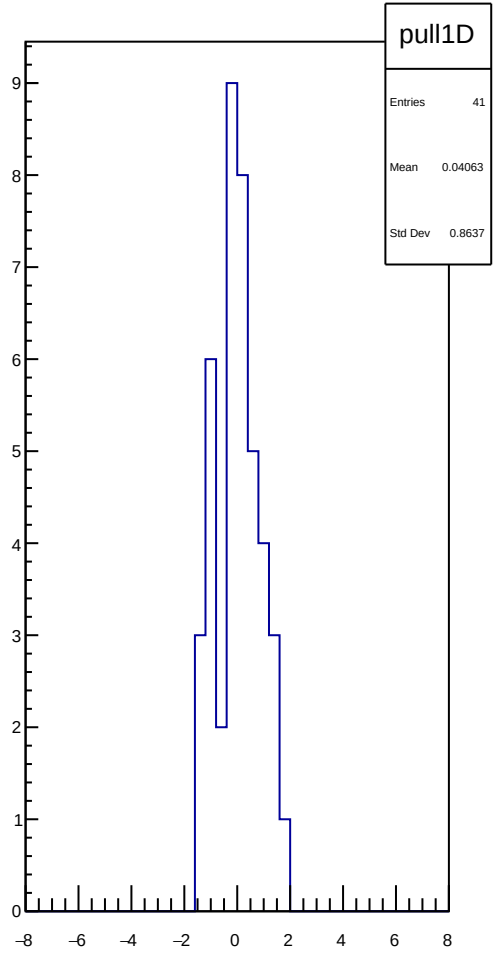

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.737e+04 / 40
p0 30.22 ± 0.03505
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

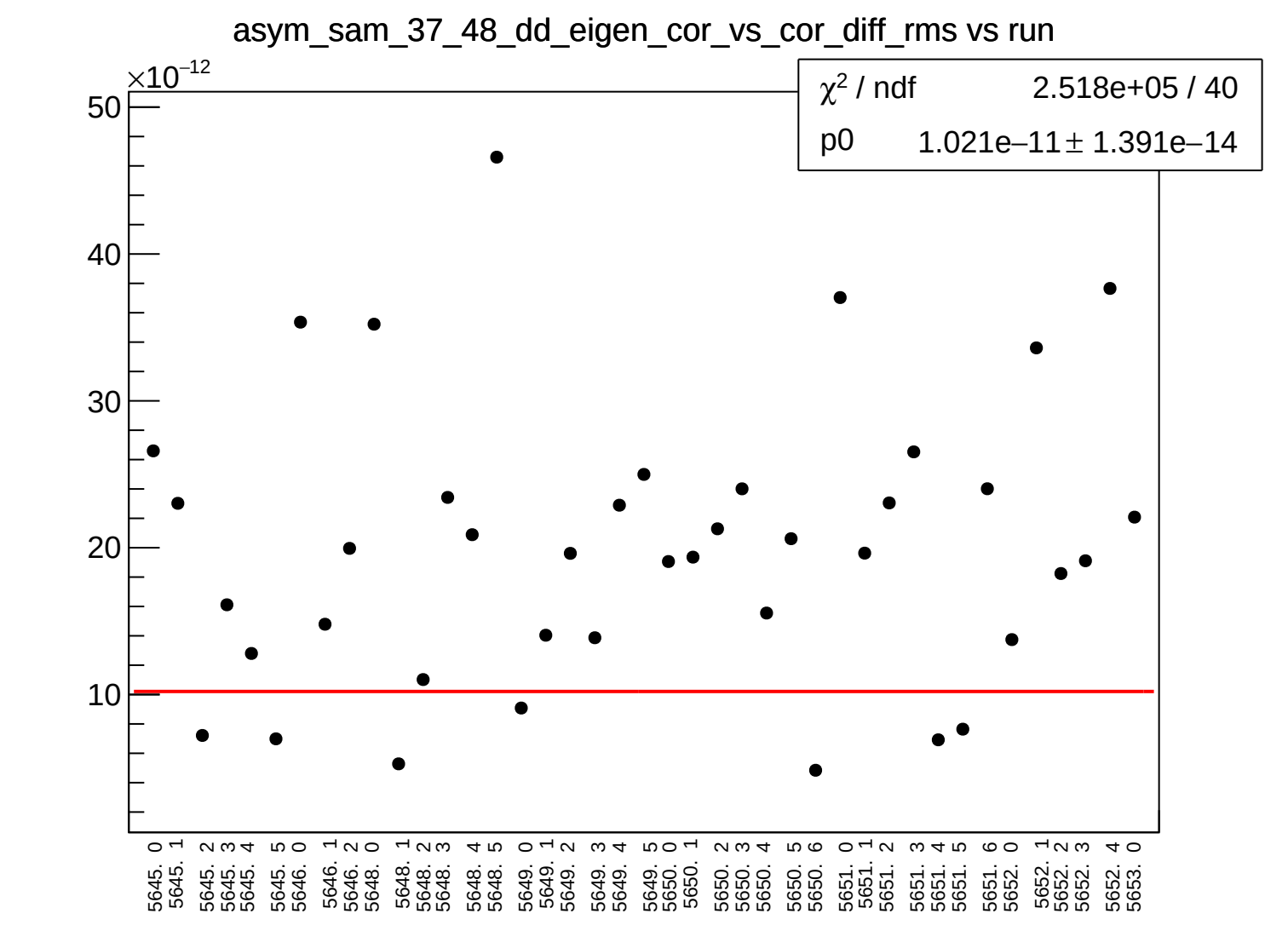

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.27 / 40
p0 −0.02304 ± 0.04957
pull
Entries 41
Mean 35.44
Std Dev 0

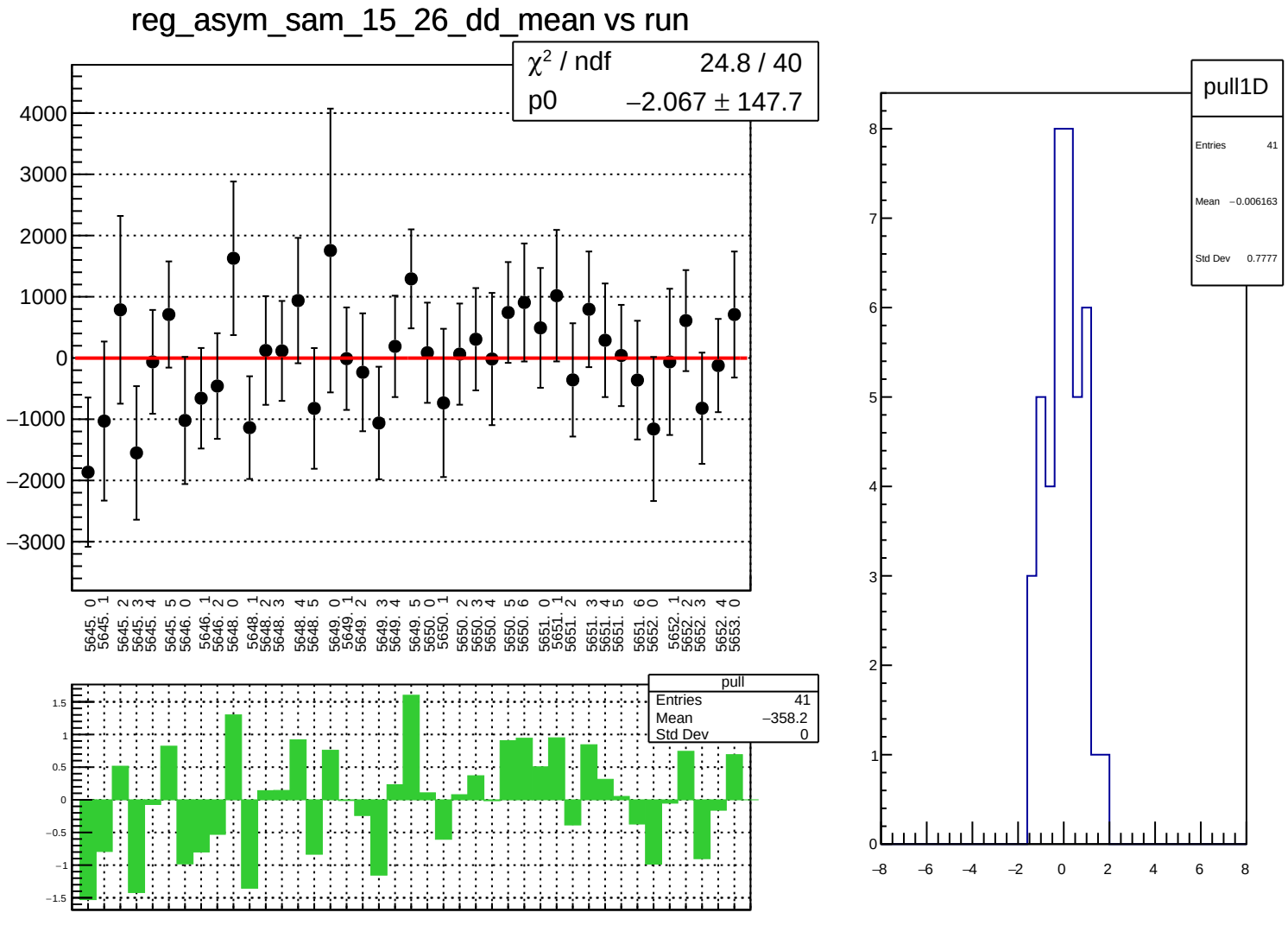

pull1D
Entries 41
Mean −0.06369
Std Dev 0.8425

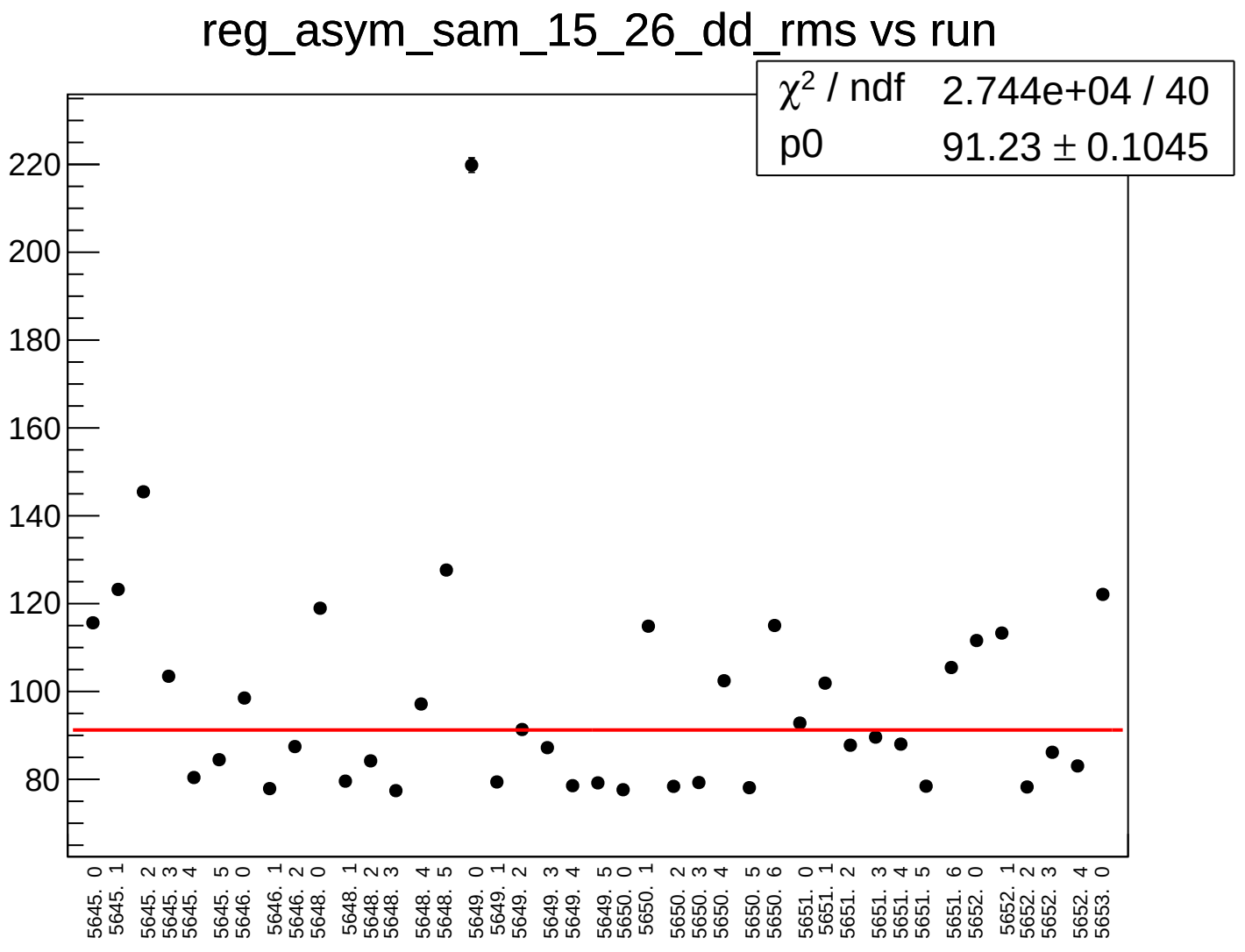

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.737e+04 / 40
p0 30.22 ± 0.03505
80
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

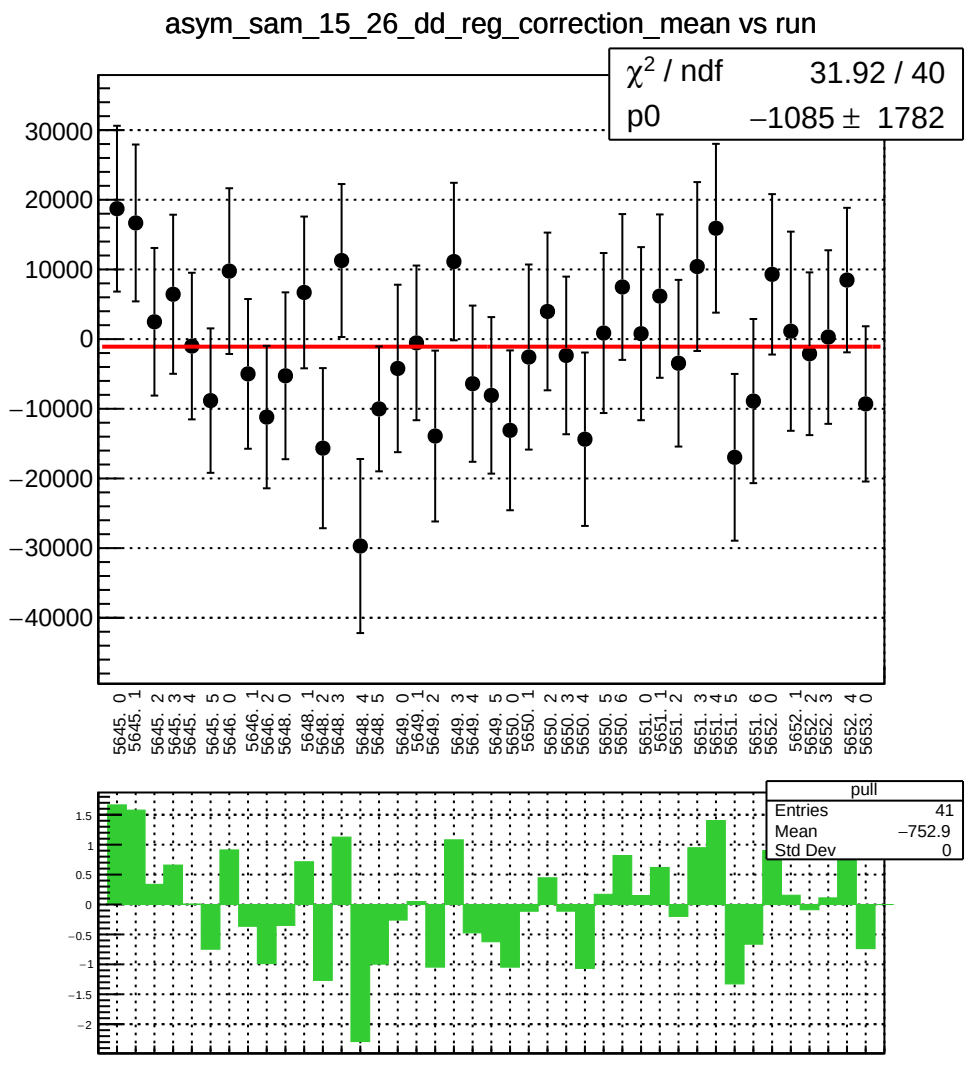

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.65 / 40
p0 2.629e−15 ± 1.968e−14
pull
Entries 41
Mean 58.95
Std Dev 0

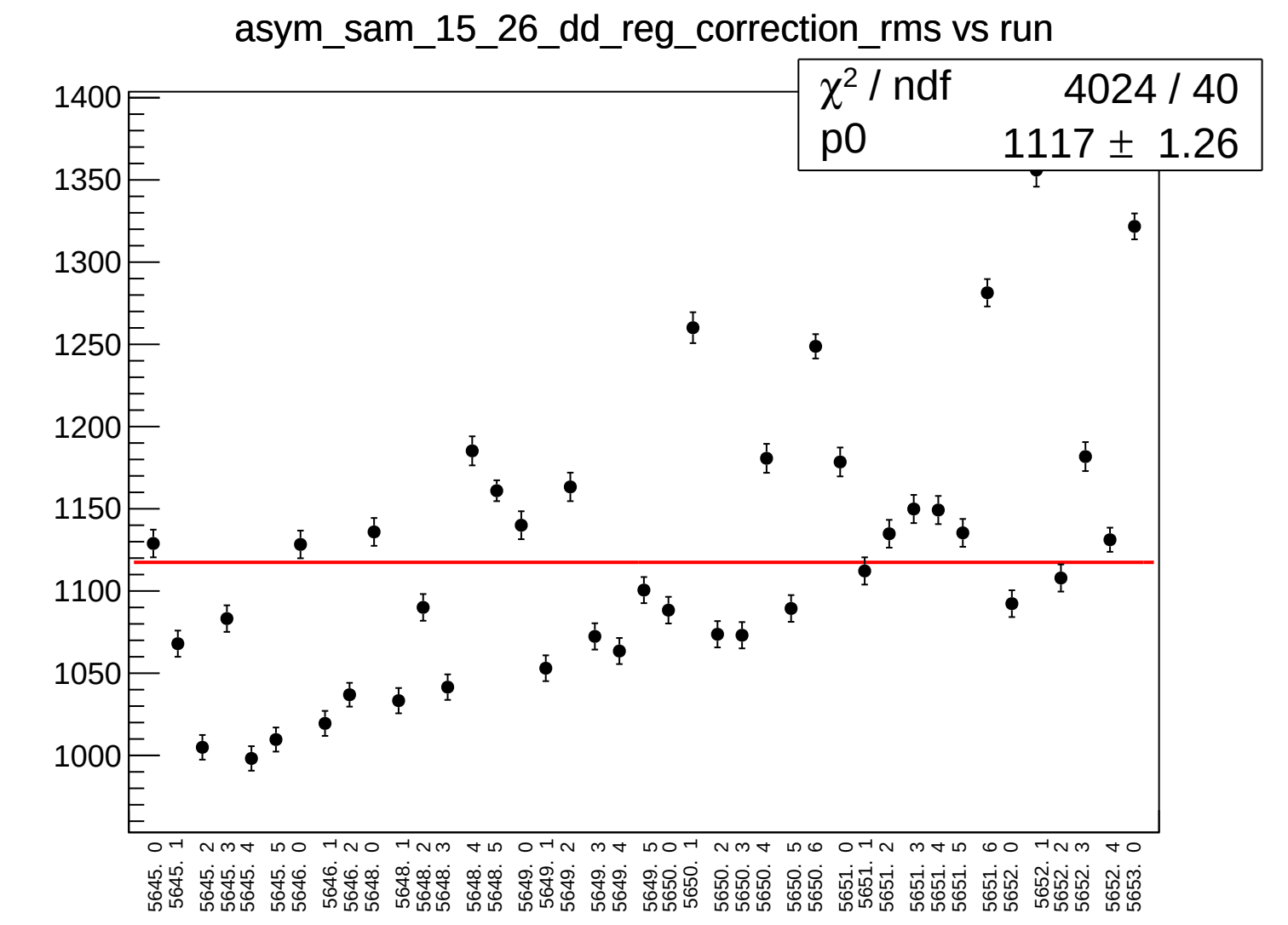

pull1D
Entries 41
Mean 0.04063
Std Dev 0.8637

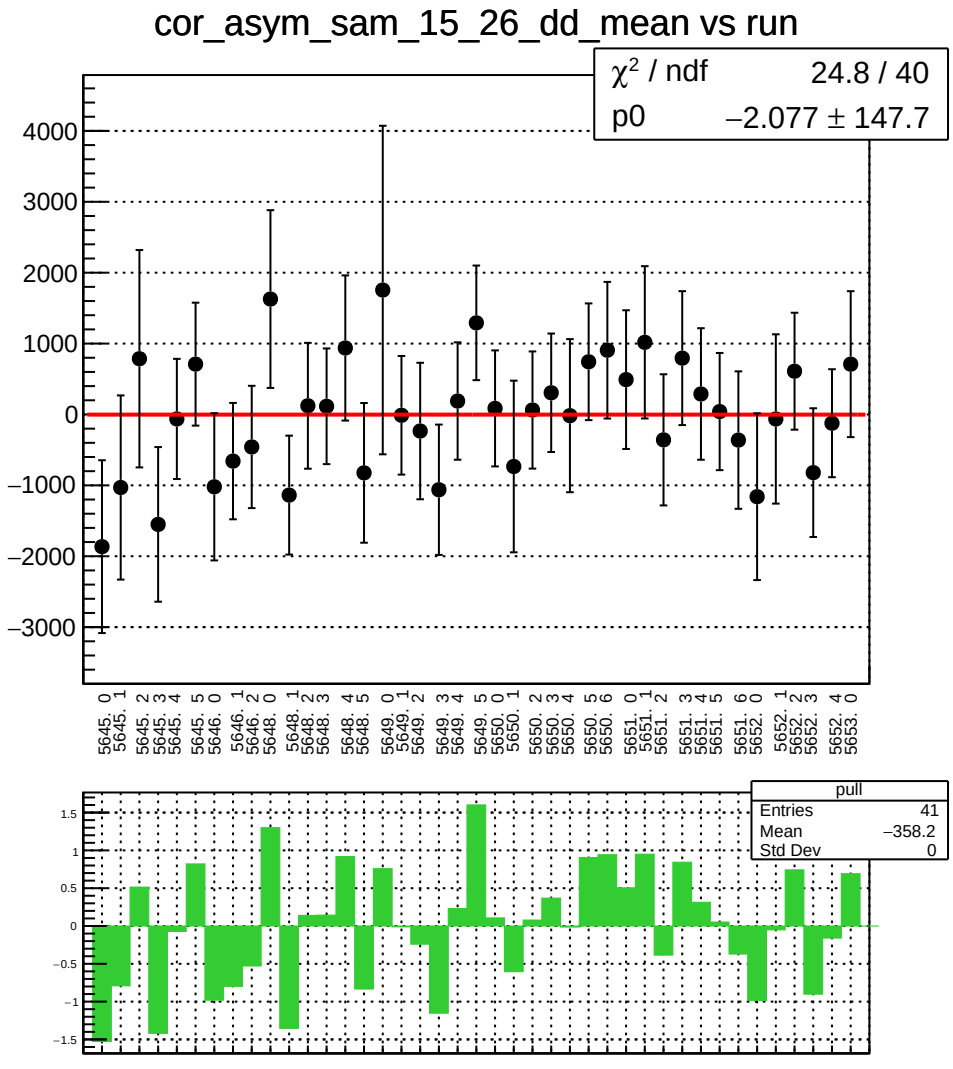

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
50
40
30
20
10
χ² / ndf 2.518e+05 / 40
p0 1.021e−11 ± 1.391e−14
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

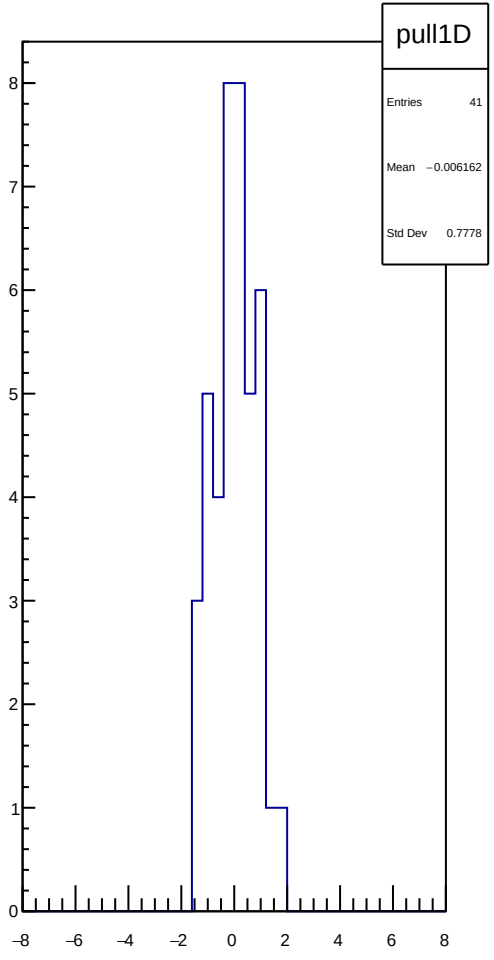

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 24.8 / 40
p0 −2.067 ± 147.7
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −358.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006163
Std Dev 0.7777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

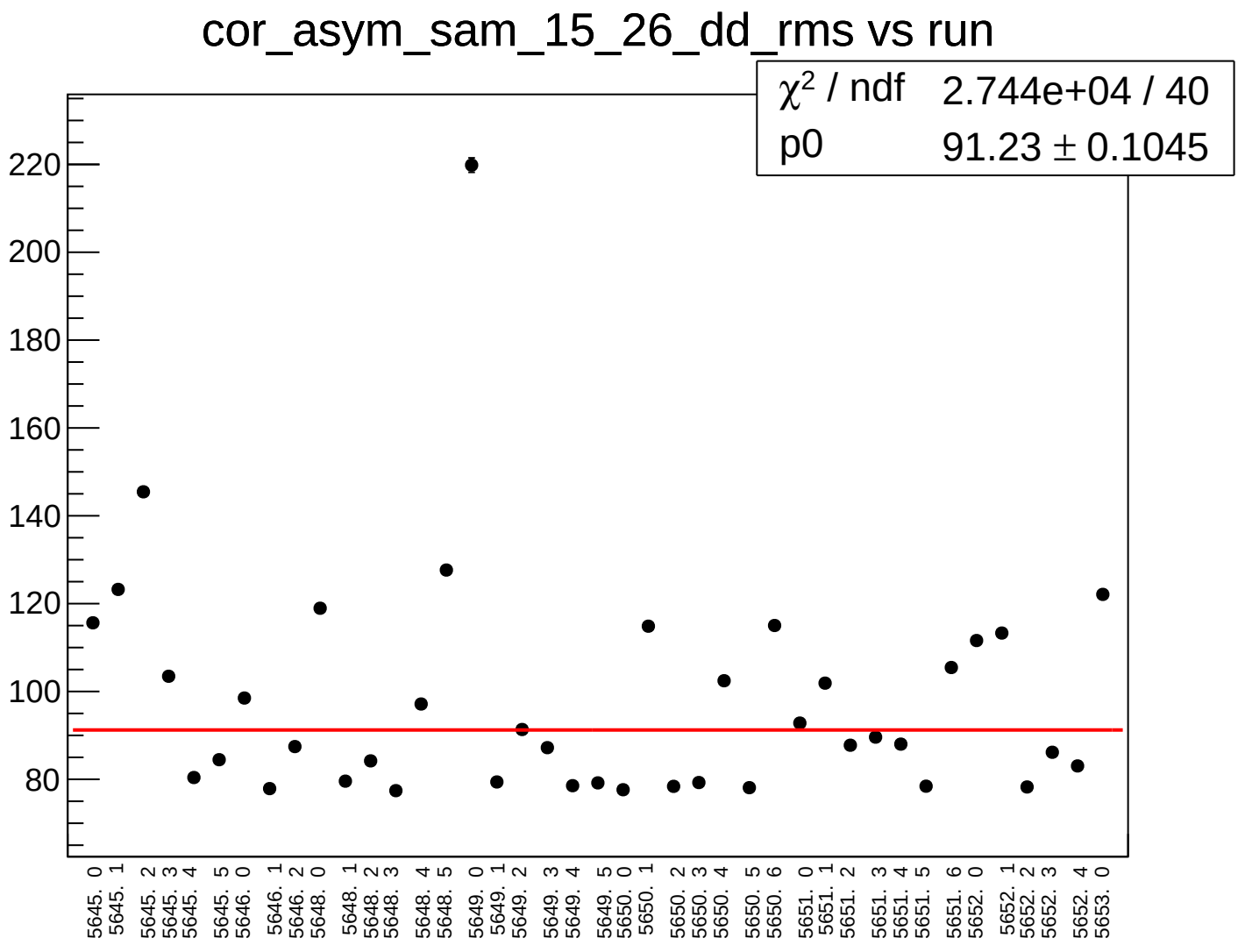

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.744e+04 / 40
p0 91.23 ± 0.1045
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

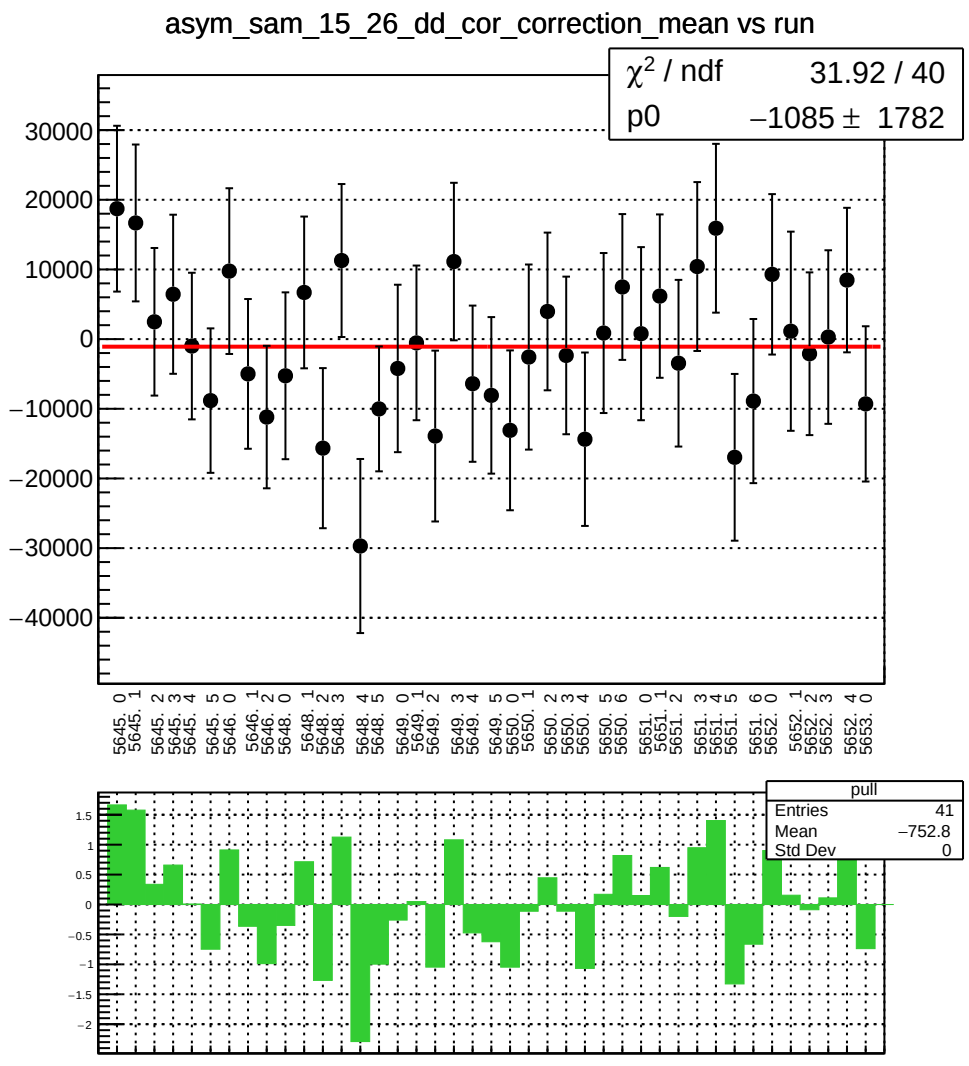

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 31.92 / 40
p0 −1085 ± 1782
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −752.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0005084
Std Dev 0.8823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

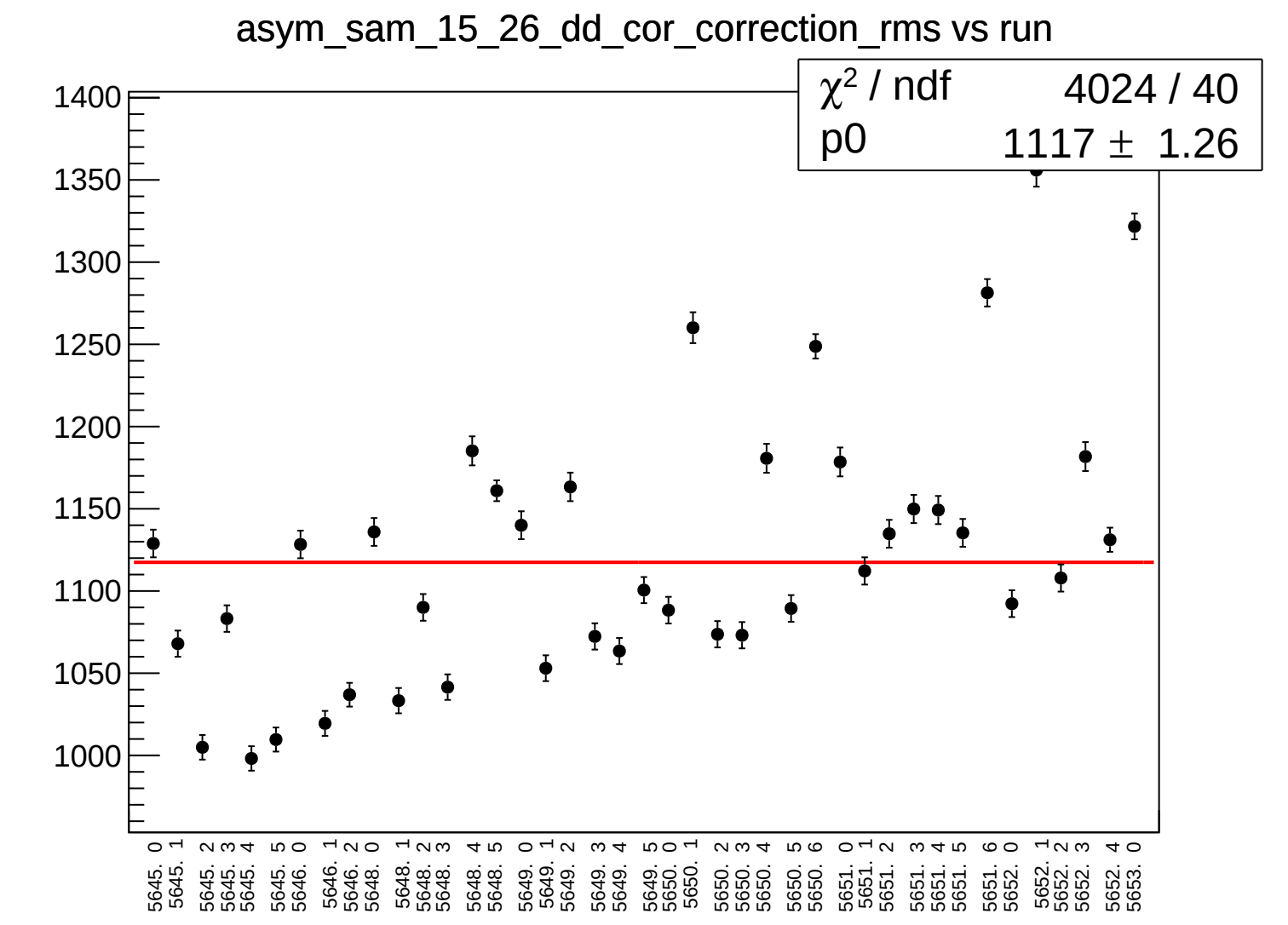

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 4024 / 40
p0 1117 ± 1.26
1400
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

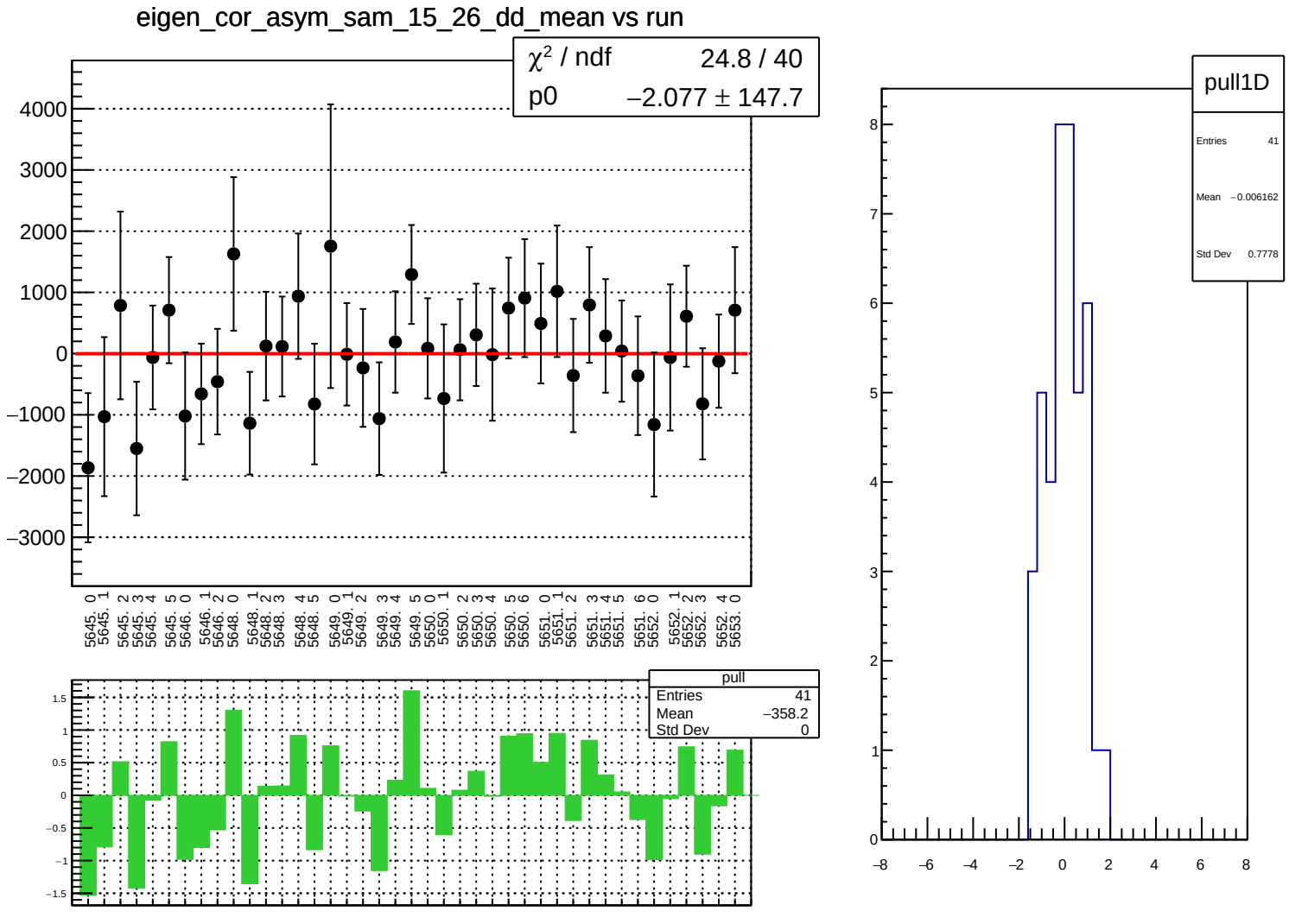

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 24.8 / 40
p0 −2.077 ± 147.7
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −358.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

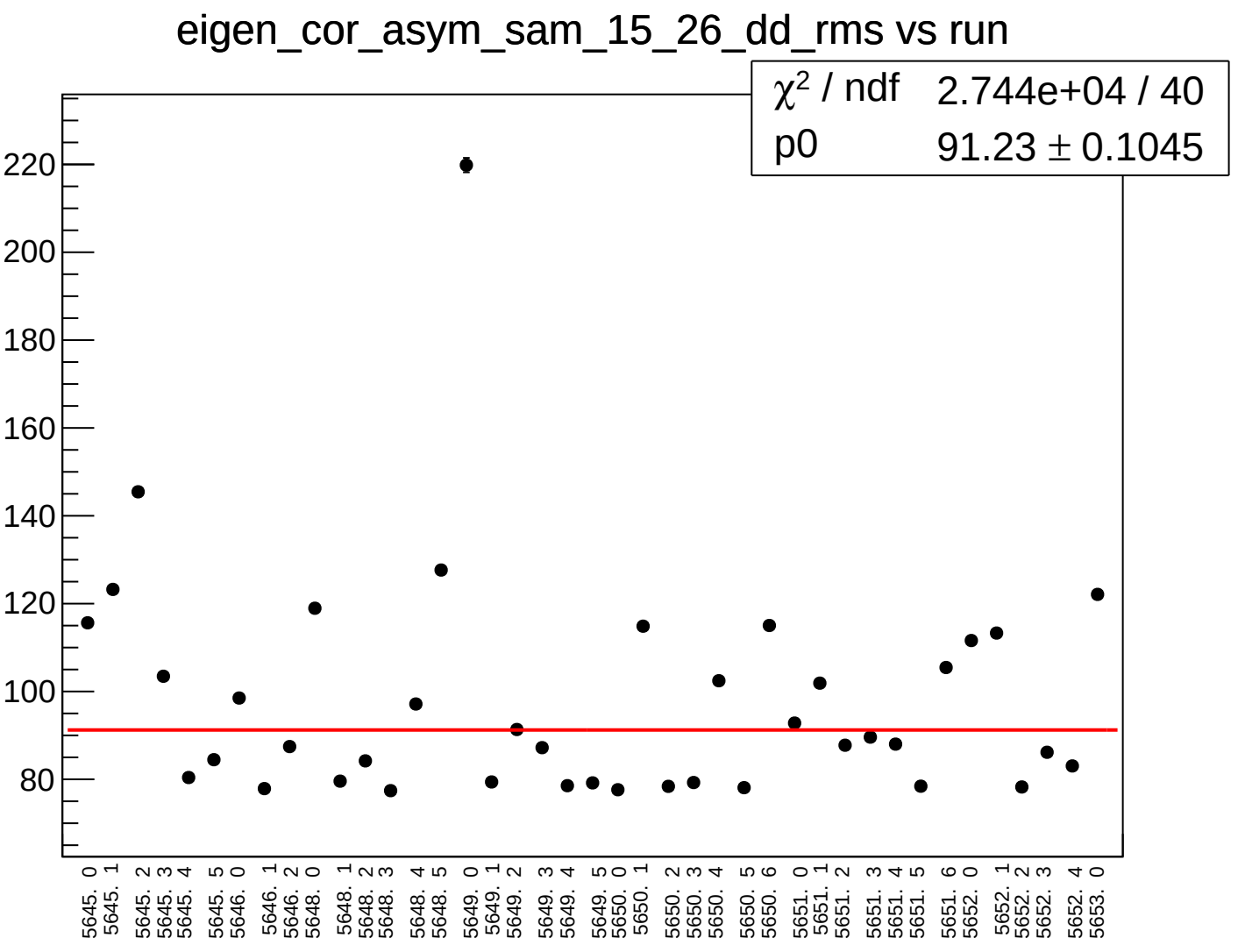

pull1D
Entries 41
Mean −0.006162
Std Dev 0.7778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

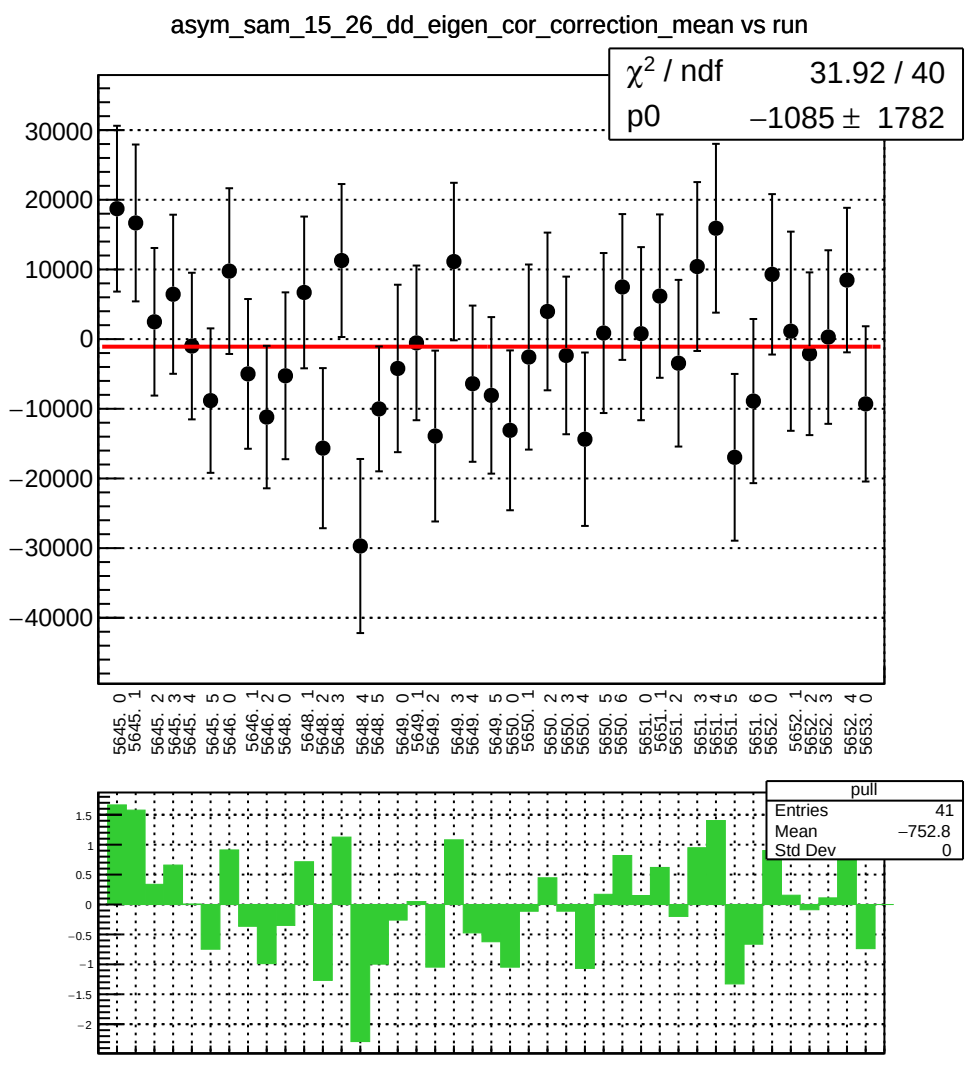

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.744e+04 / 40
p0 91.23 ± 0.1045
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

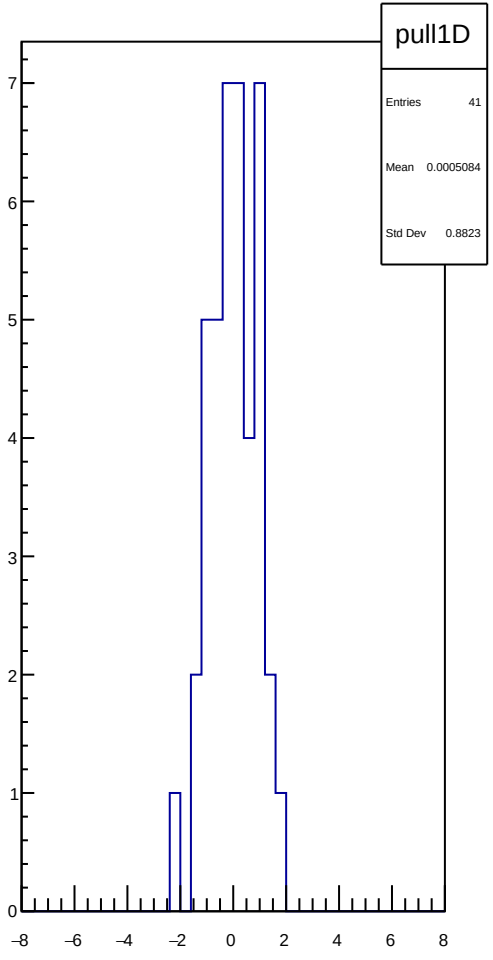

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 31.92 / 40
p0 −1085 ± 1782
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −752.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0005084
Std Dev 0.8823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

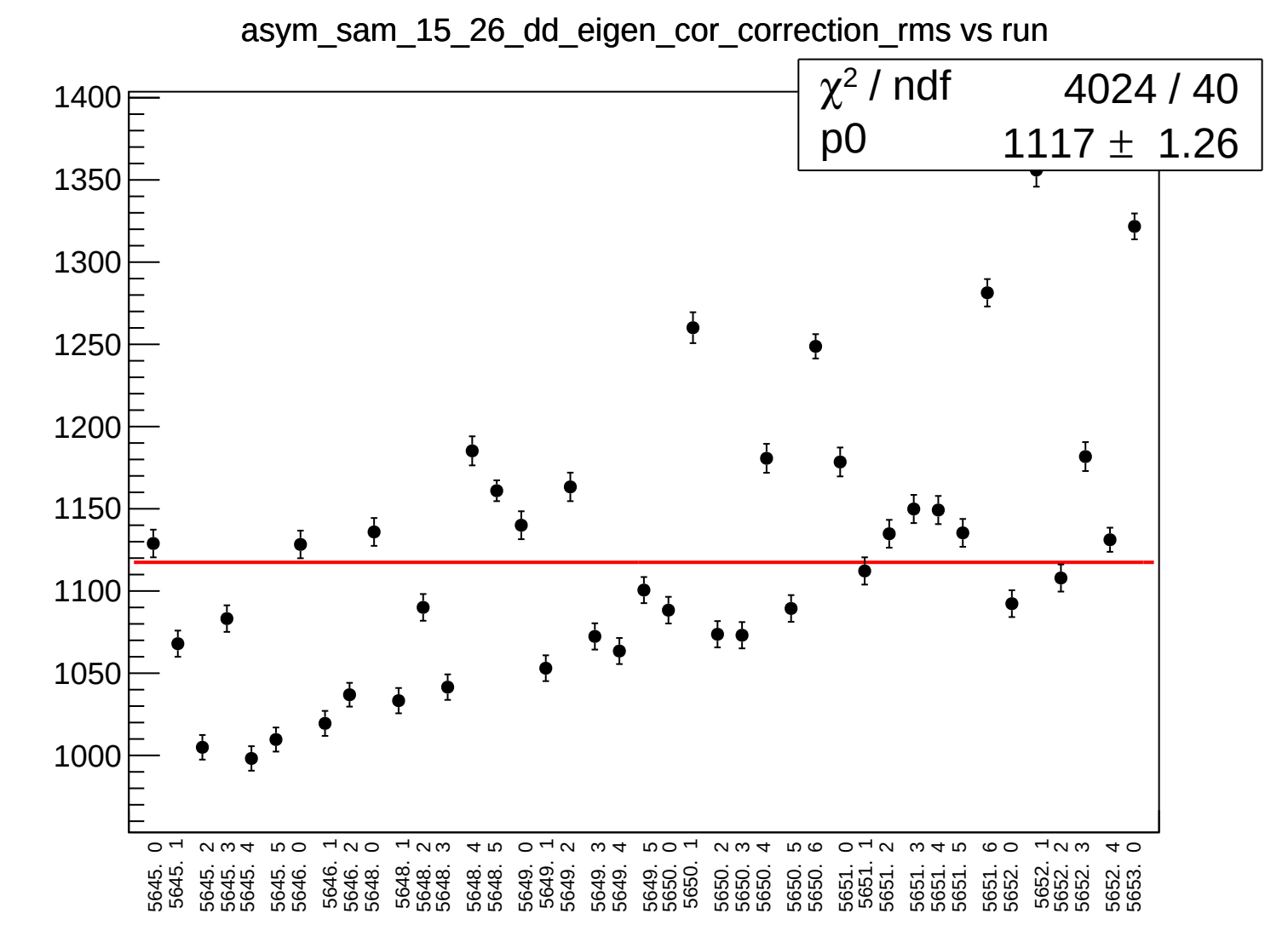

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4024 / 40
p0 1117 ± 1.26
1400
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

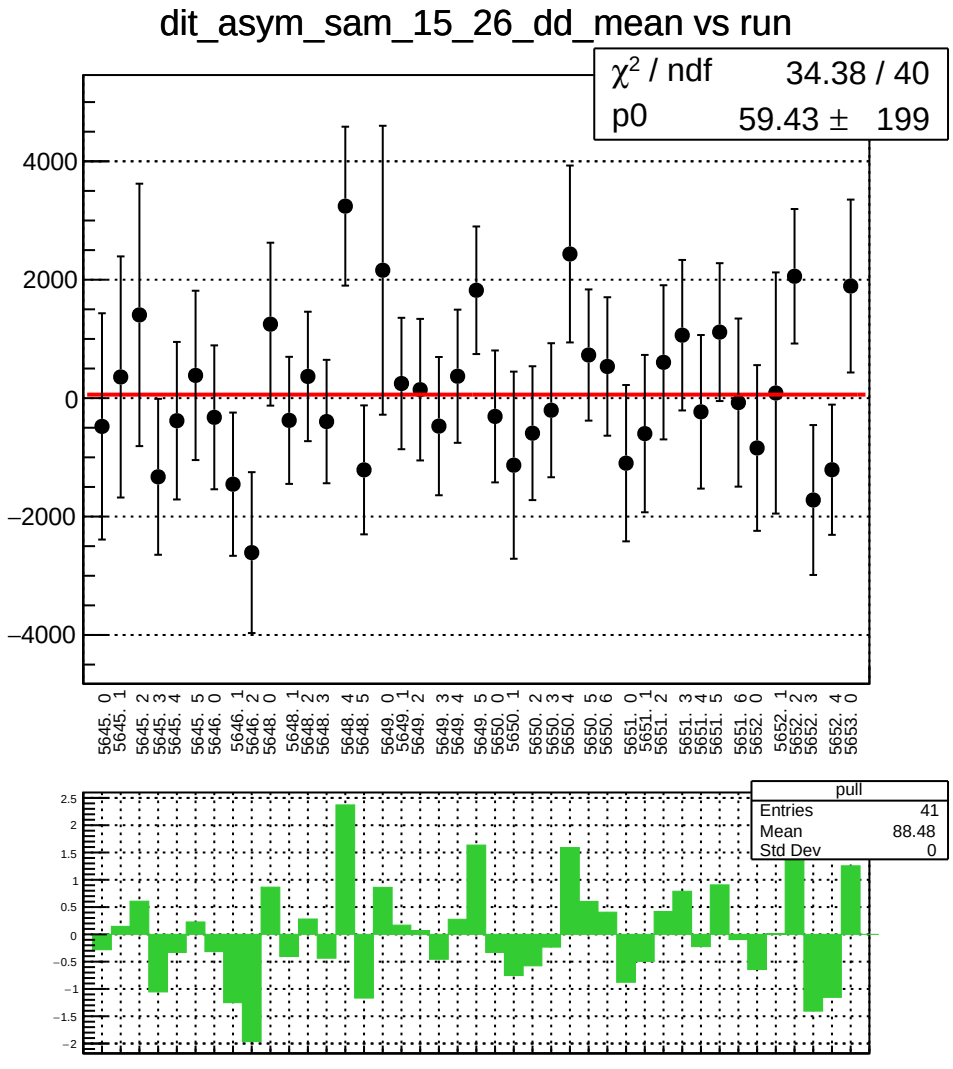

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 24.8 / 40
p0 −2.077 ± 147.7
4000
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −358.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.006162
Std Dev 0.7778
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

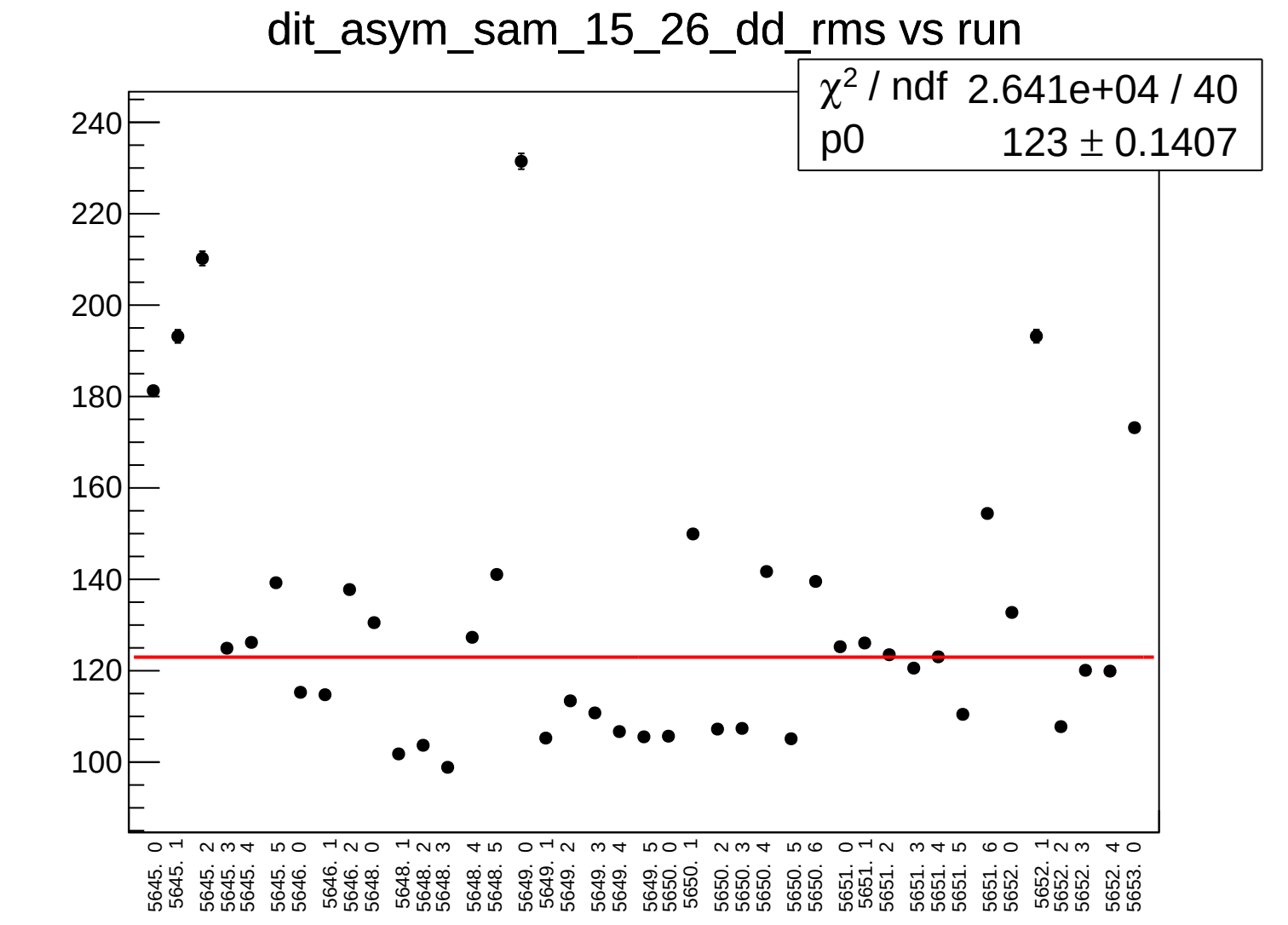

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.744e+04 / 40
p0 91.23 ± 0.1045
220
200
180
160
140
120
100
80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

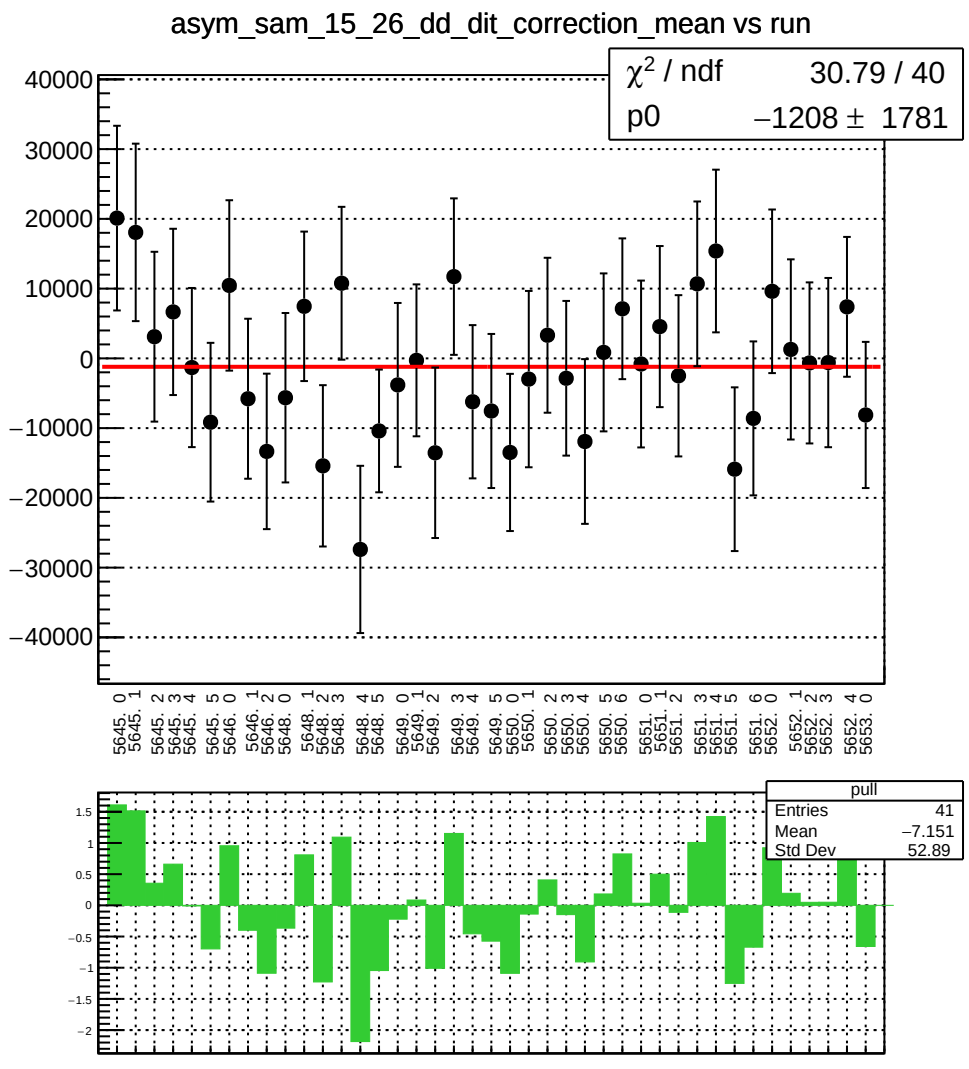

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.92 / 40
p0 −1085 ± 1782
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −752.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

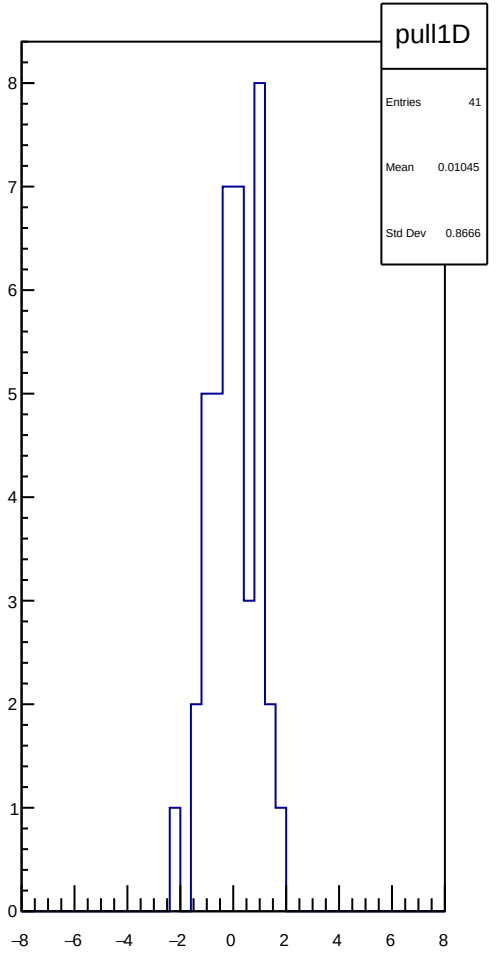

pull1D
Entries 41
Mean 0.0005084
Std Dev 0.8823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

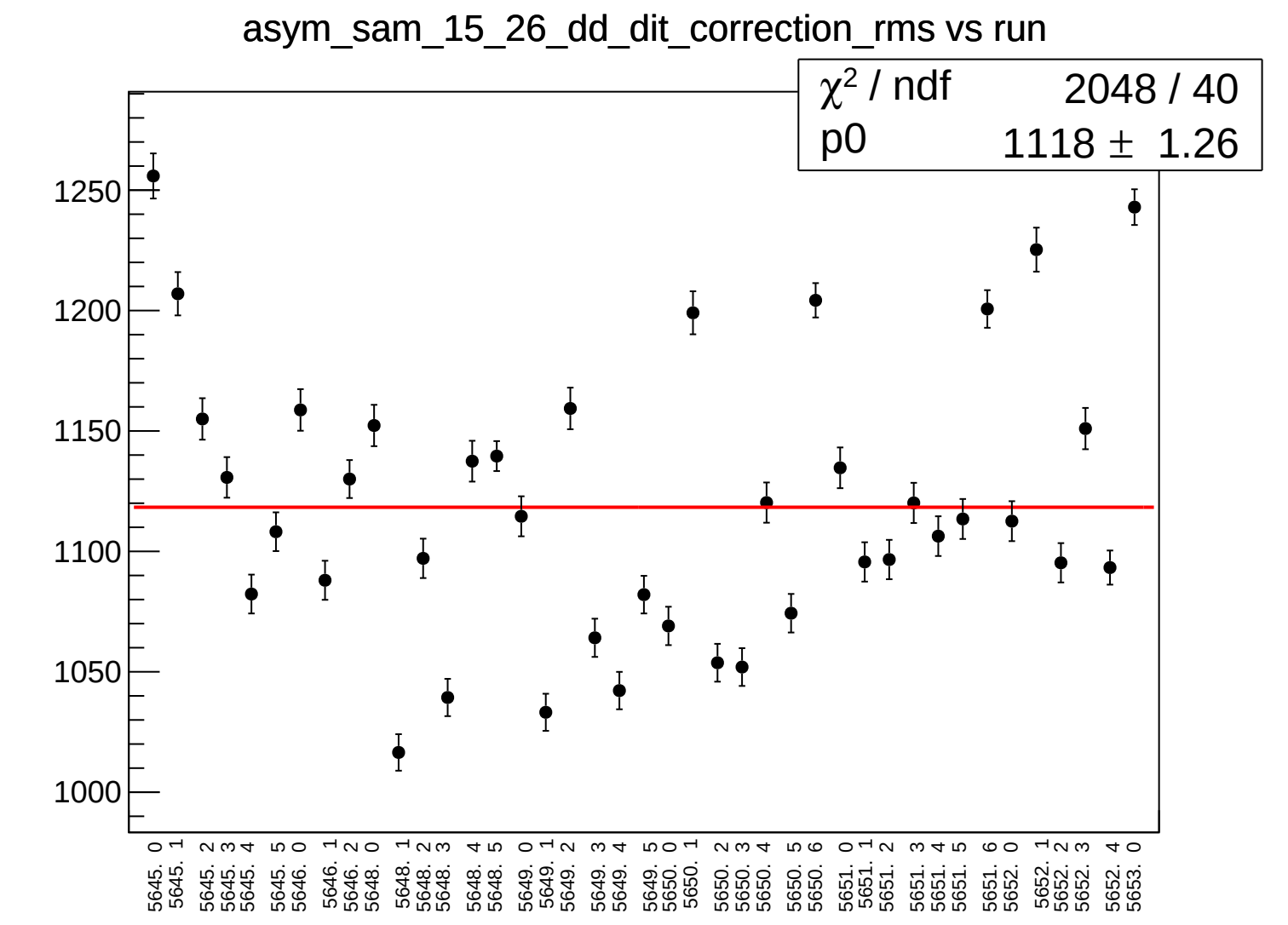

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4024 / 40
p0 1117 ± 1.26
1400
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

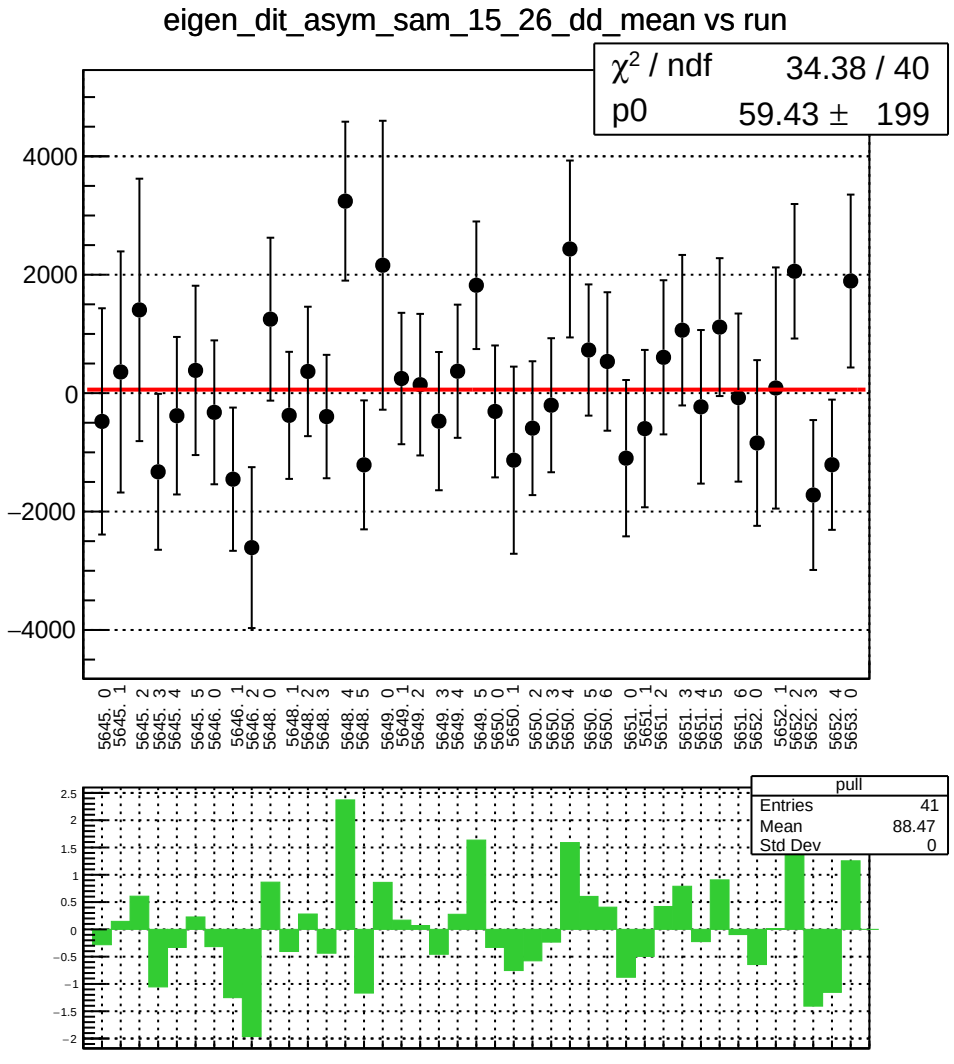

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 34.38 / 40
p0 59.43 ± 199
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 88.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01964
Std Dev 0.9155
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

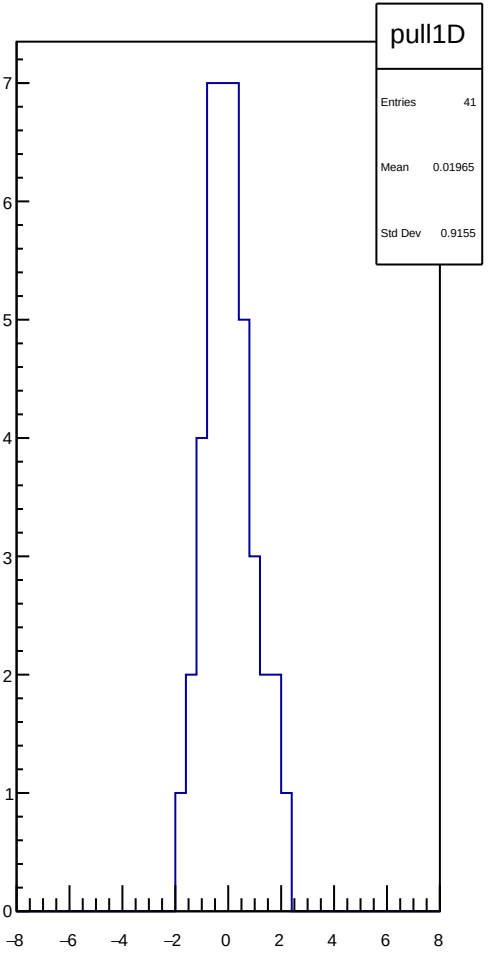

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.641e+04 / 40
p0 123 ± 0.1407
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

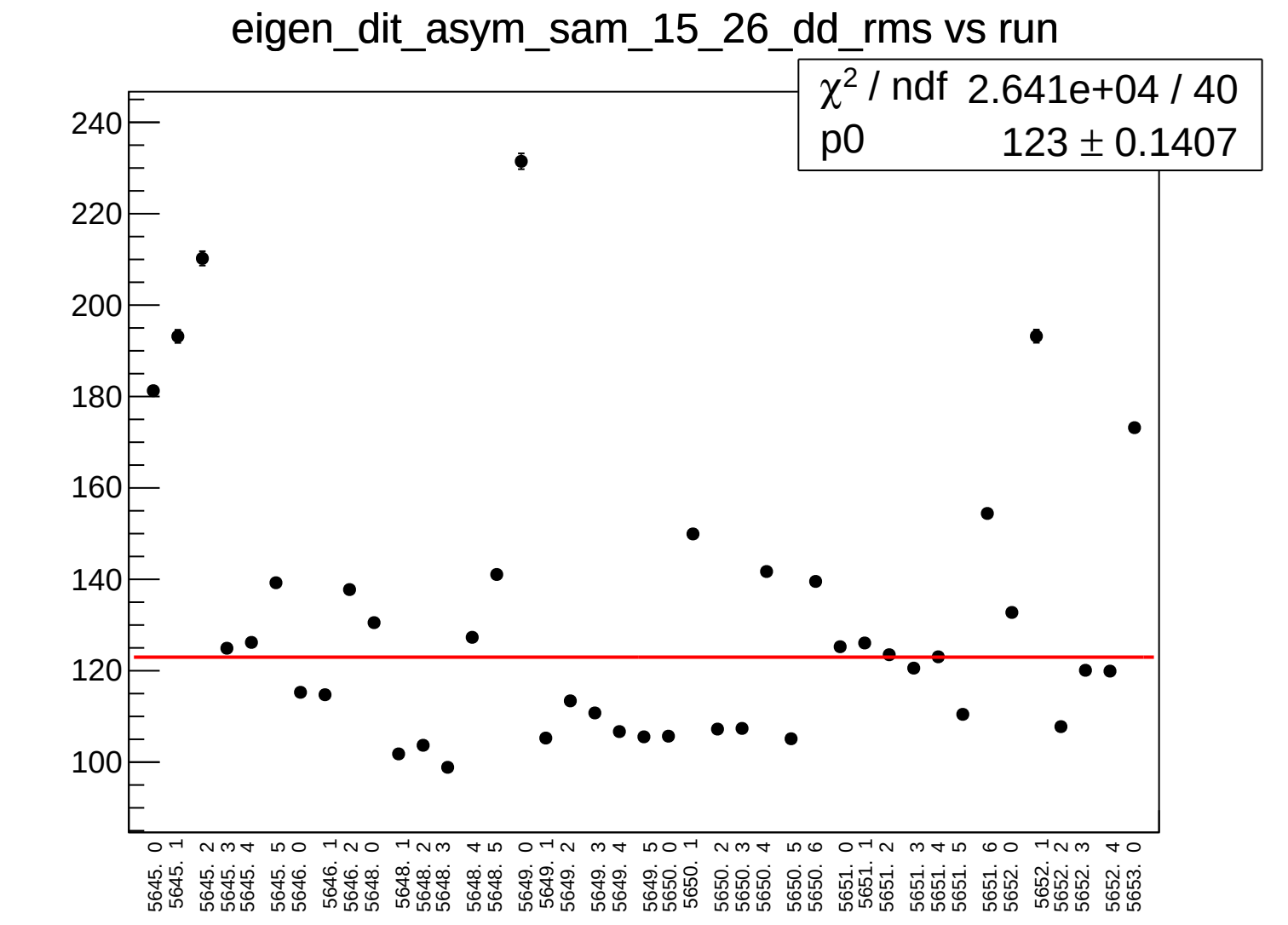

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 30.79 / 40
p0 −1208 ± 1781
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.151
Std Dev 52.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2

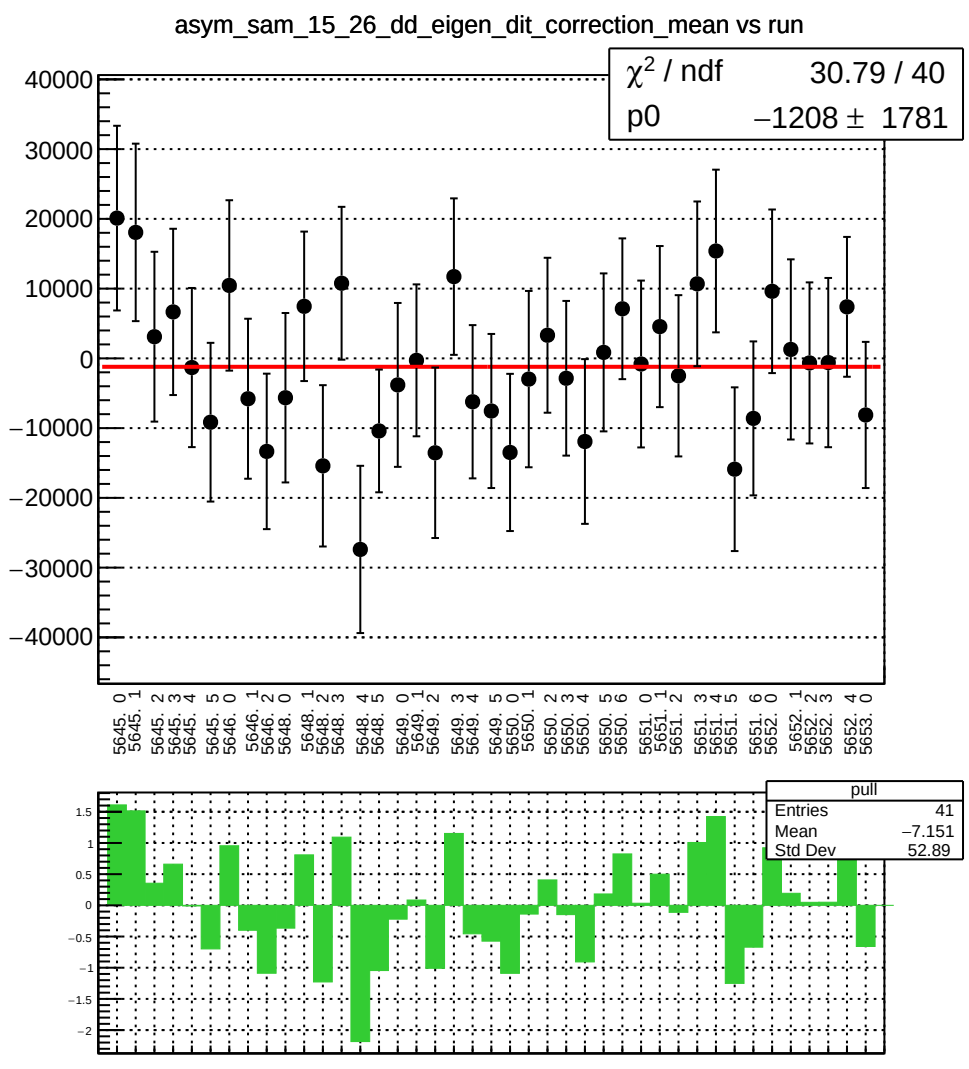

pull1D
Entries 41
Mean 0.01045
Std Dev 0.8666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

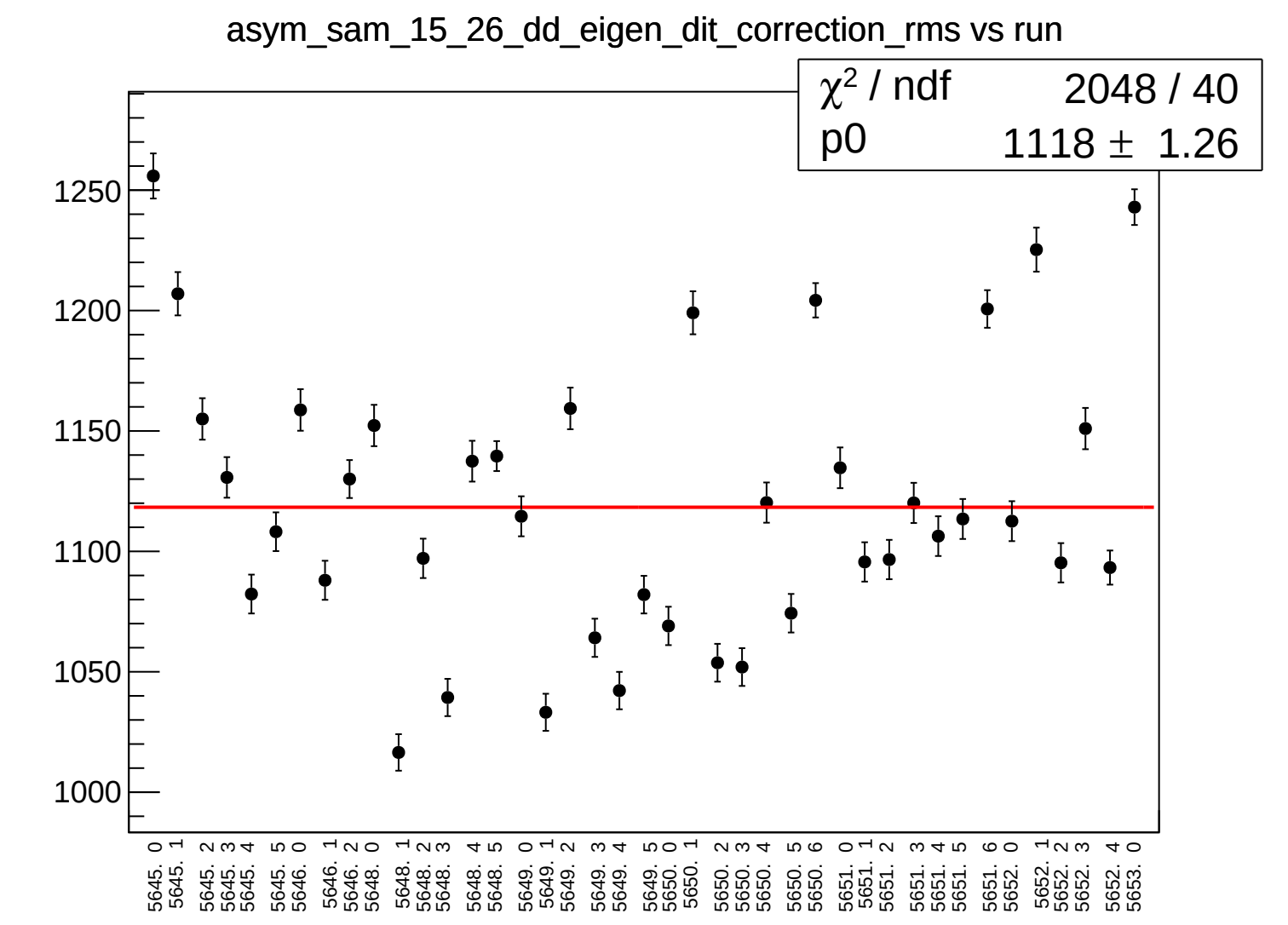

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2048 / 40
p0 1118 ± 1.26
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

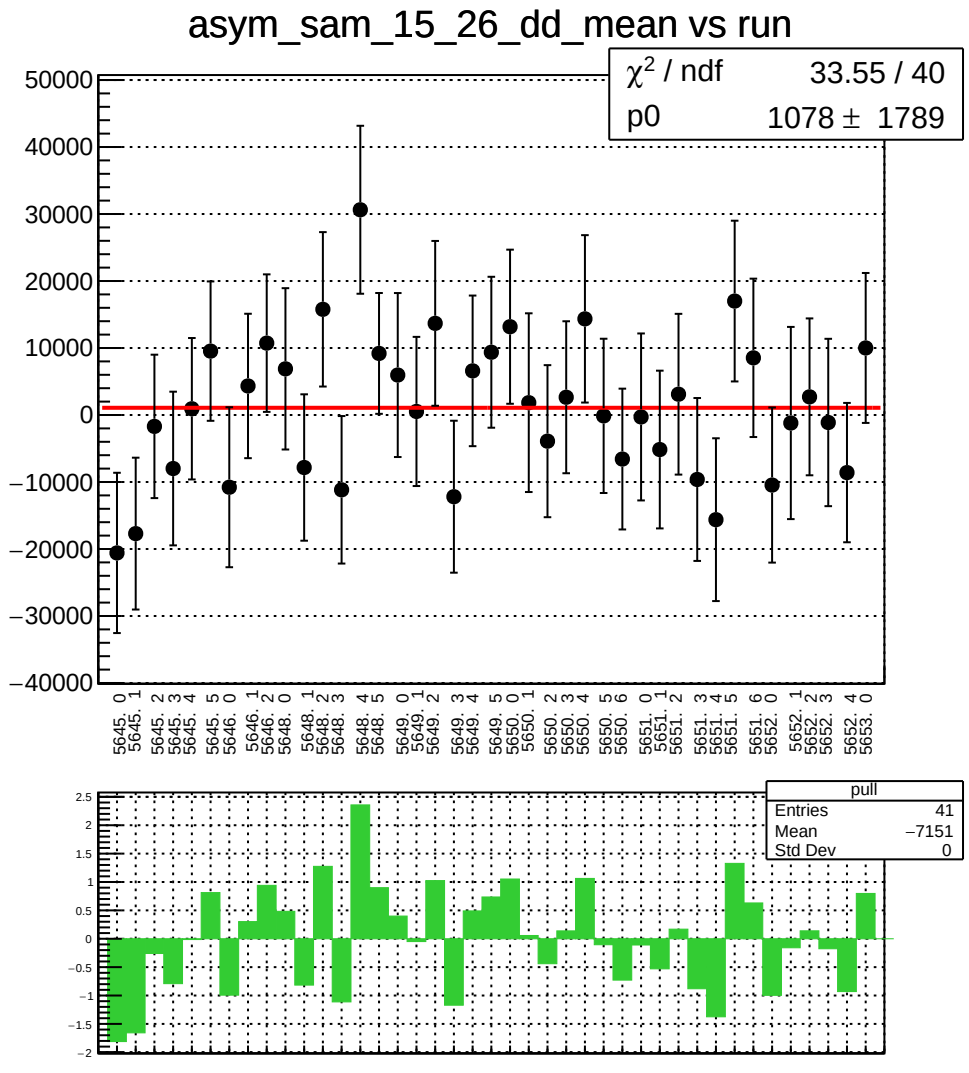

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 34.38 / 40
p0 59.43 ± 199
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 88.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

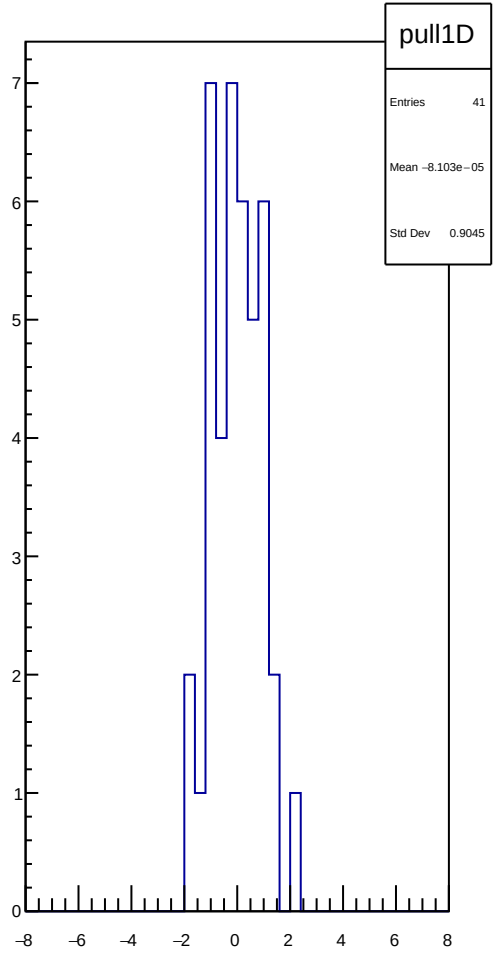

pull1D
Entries 41
Mean 0.01965
Std Dev 0.9155
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

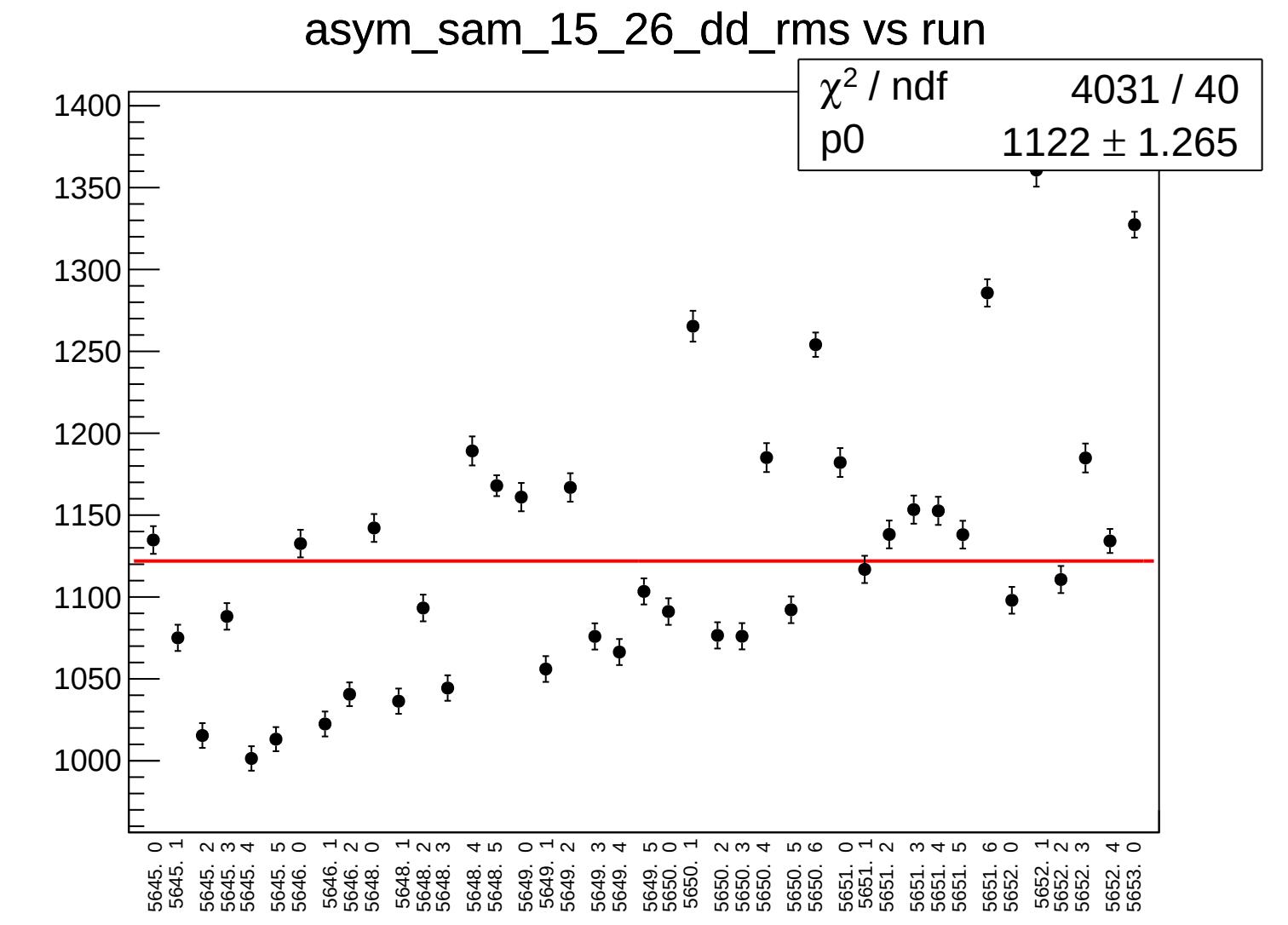

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.641e+04 / 40
p0 123 ± 0.1407
240
220
200
180
160
140
120
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

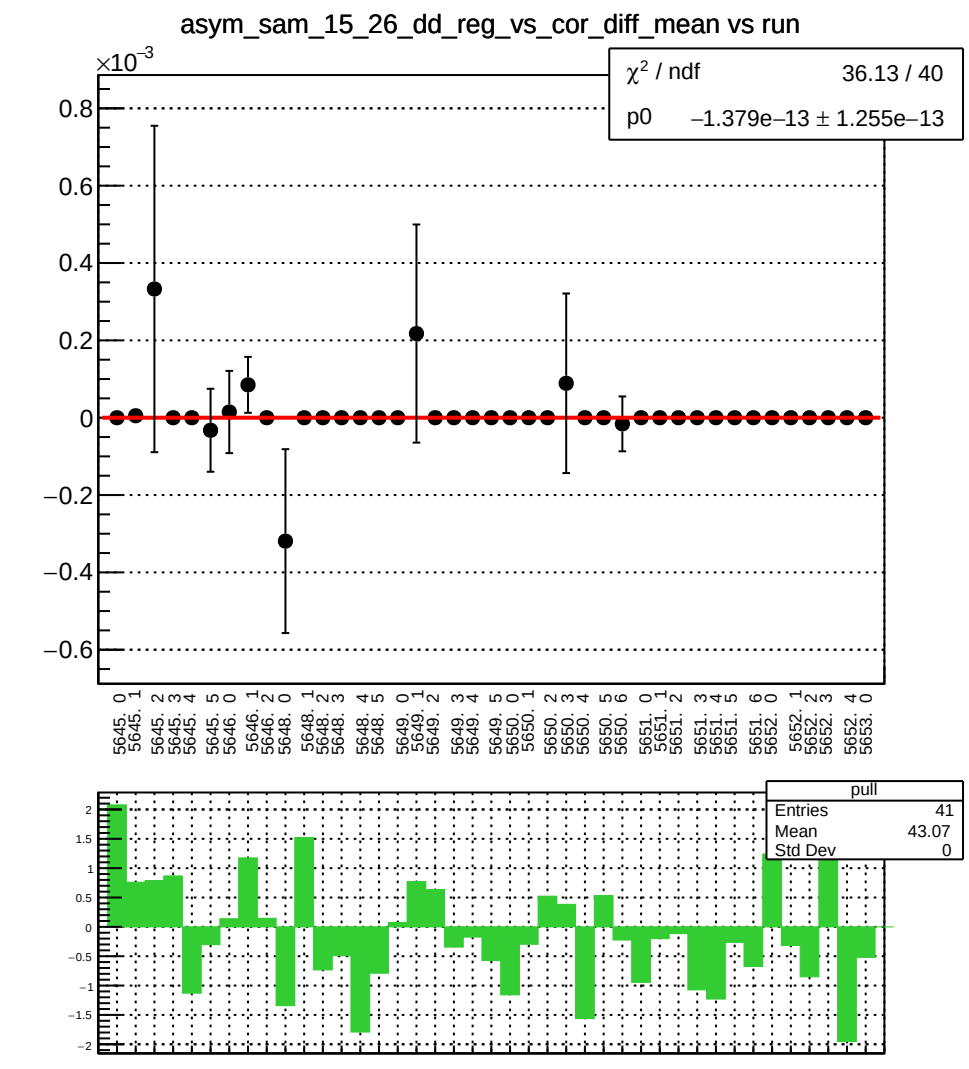

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.79 / 40
p0 −1208 ± 1781
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.151
Std Dev 52.89
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.01045
Std Dev 0.8666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

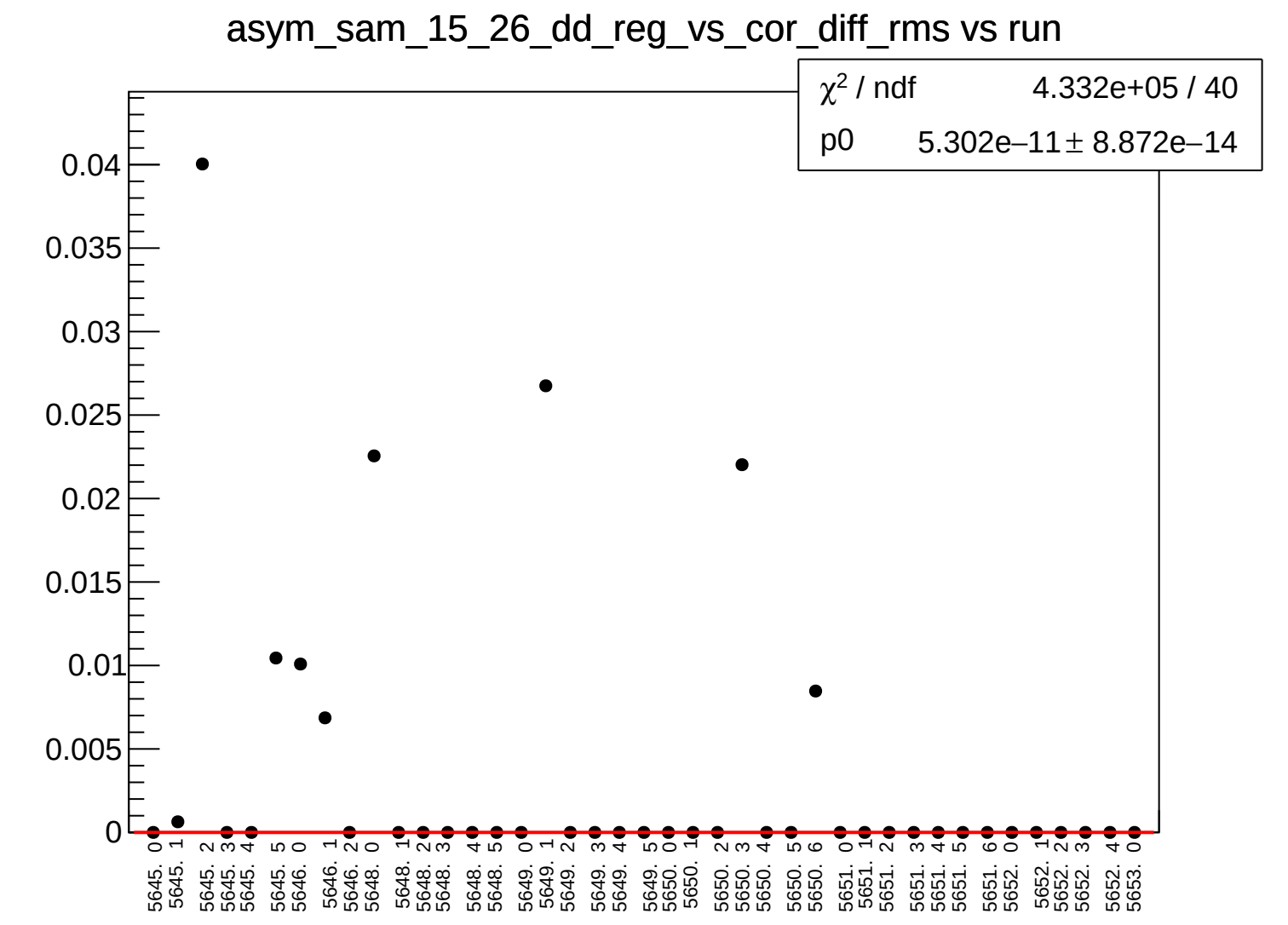

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2048 / 40
p0 1118 ± 1.26
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

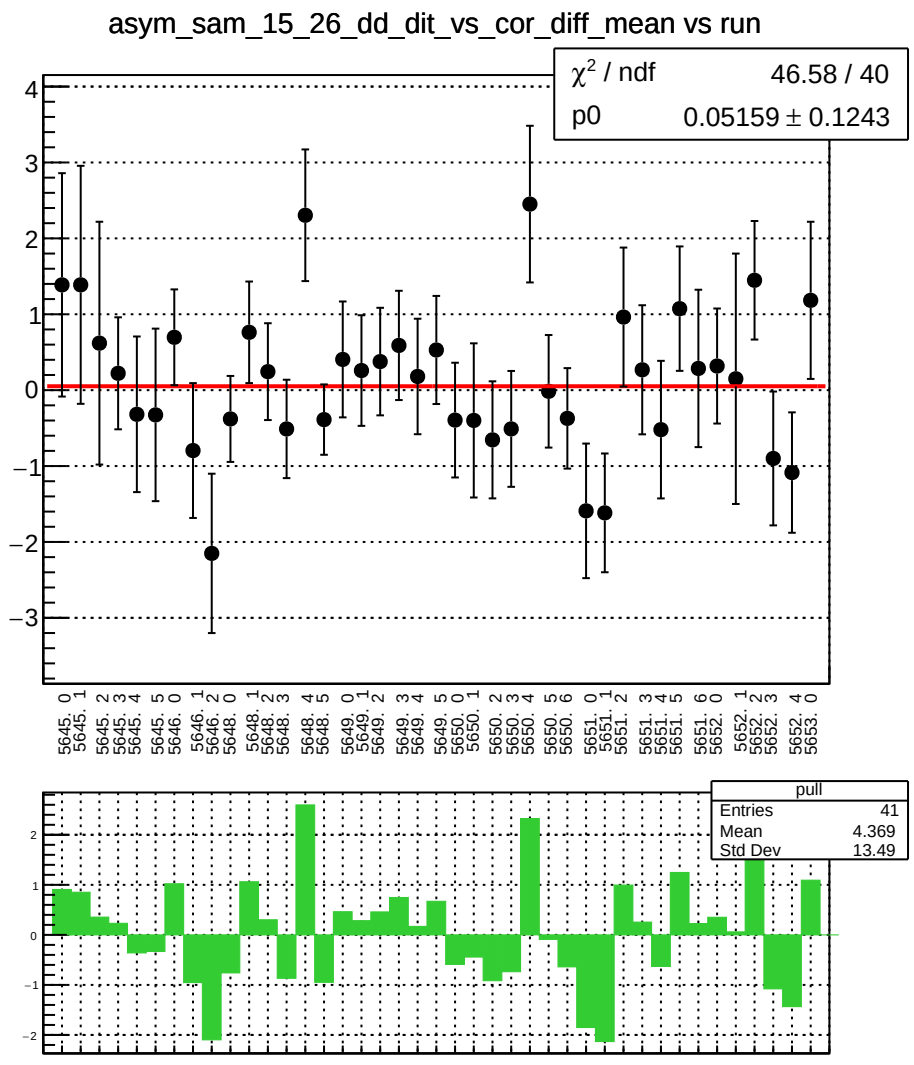

asym_sam_15_26_dd_mean vs run
χ² / ndf 33.55 / 40
p0 1078 ± 1789
pull
Entries 41
Mean −7151
Std Dev 0

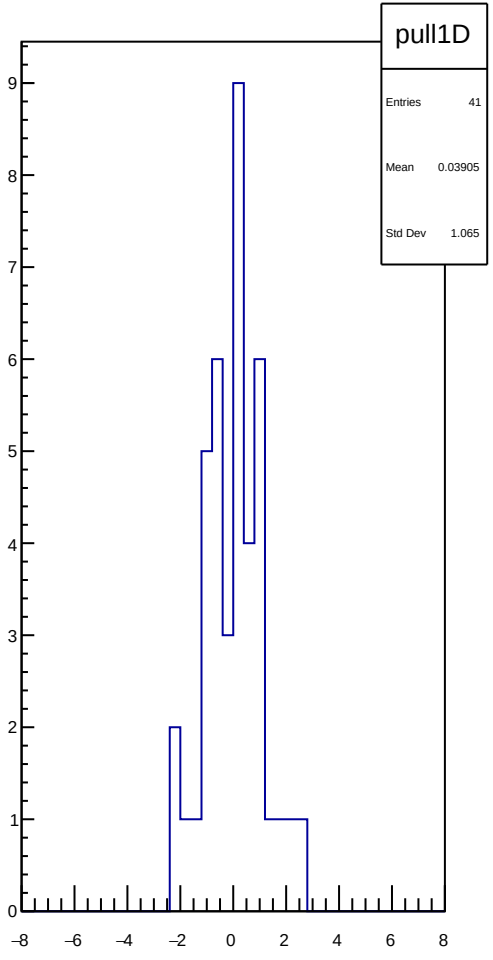

pull1D
Entries 41
Mean −8.103e−05
Std Dev 0.9045

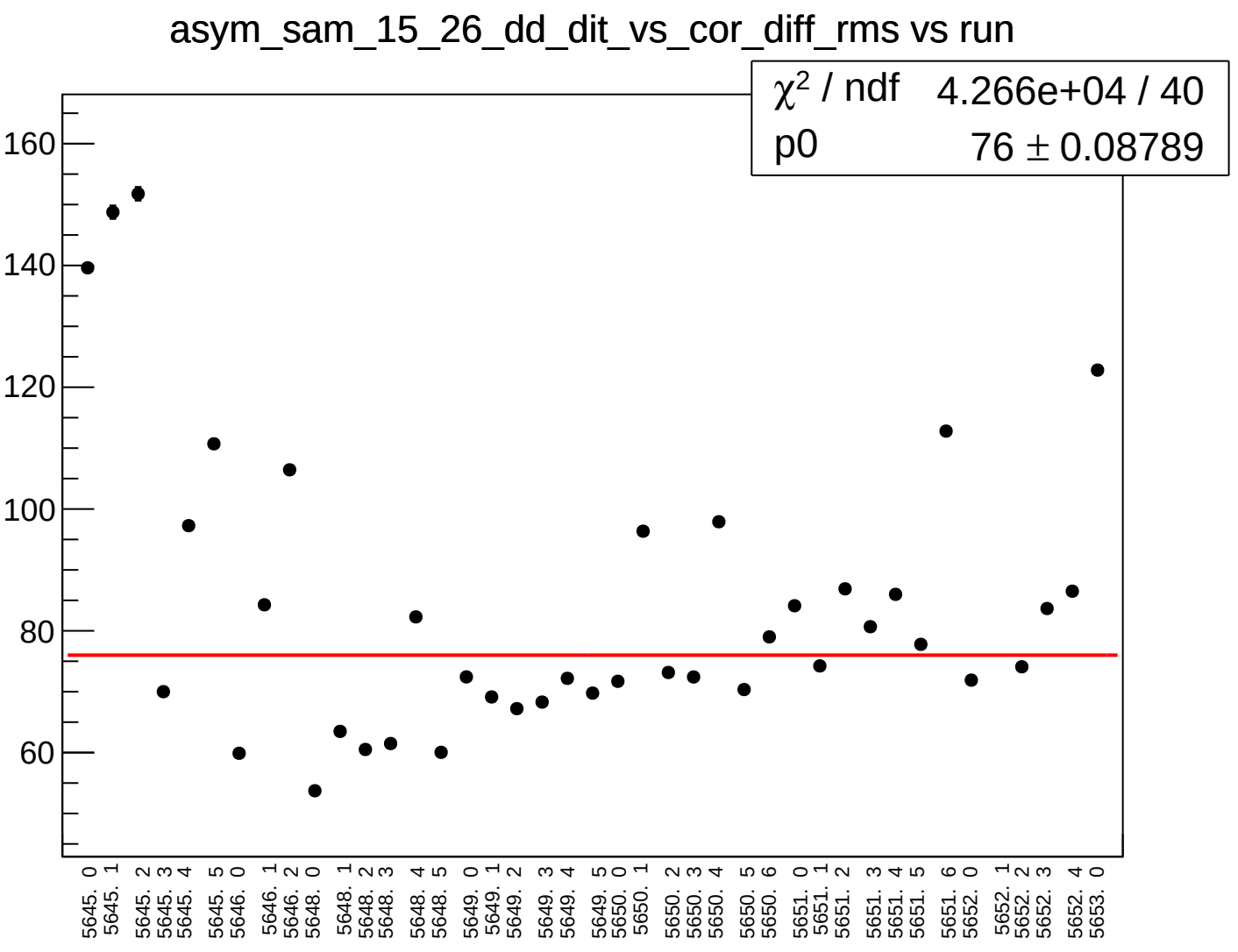

asym_sam_15_26_dd_rms vs run
χ² / ndf 4031 / 40
p0 1122 ± 1.265
1400
1350
1300
1250
1200
1150
1100
1050
1000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

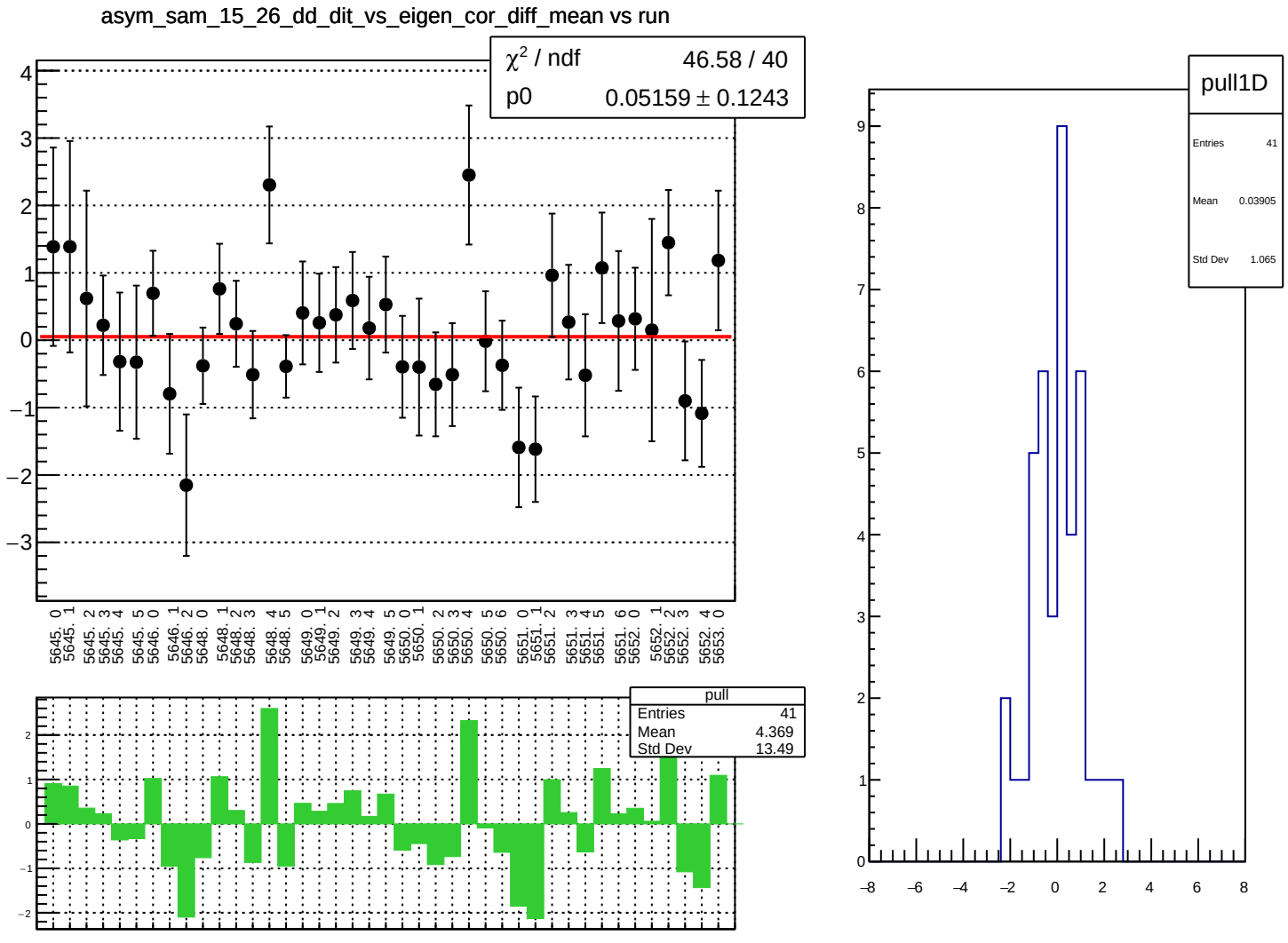

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 36.13 / 40
p0 −1.379e−13 ± 1.255e−13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 43.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.1497
Std Dev 0.9267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

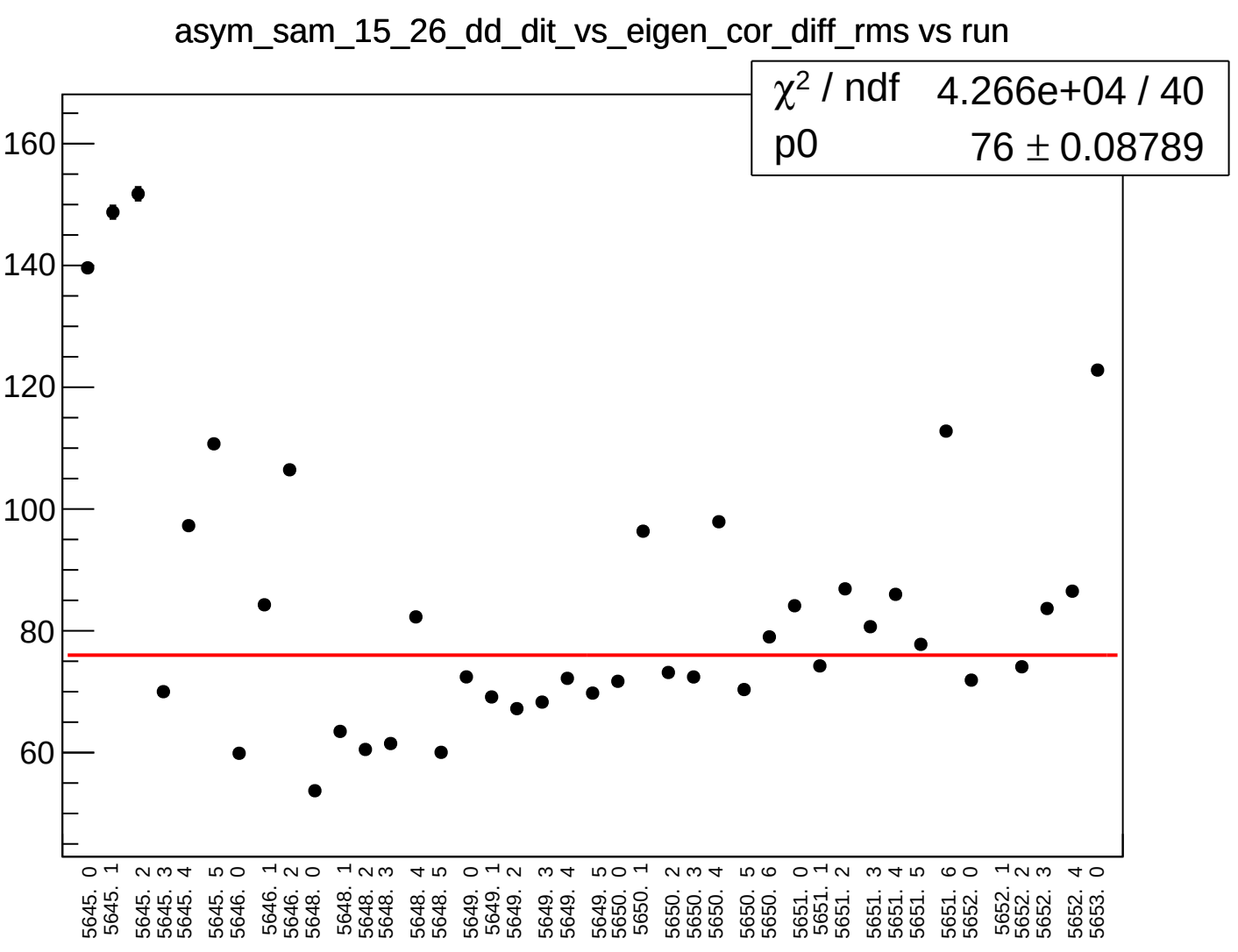

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.332e+05 / 40
p0 5.302e−11 ± 8.872e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

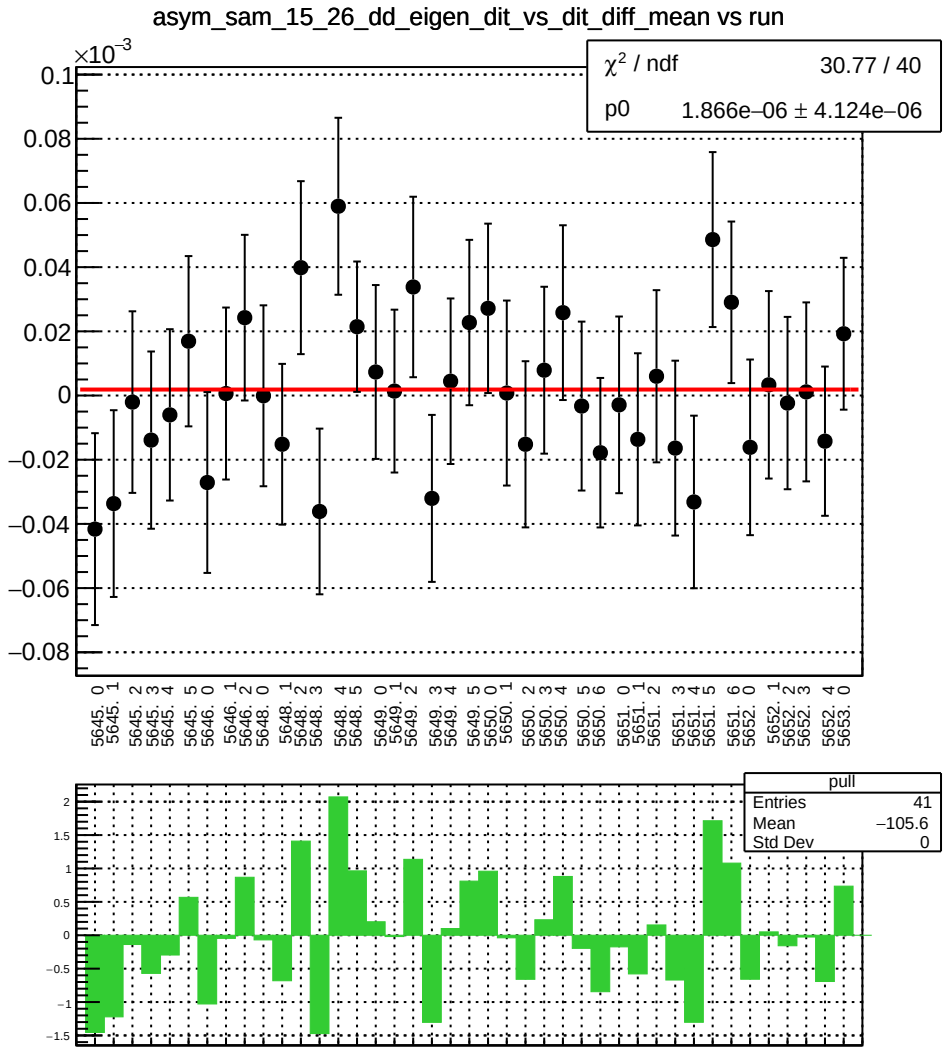

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.58 / 40
p0 0.05159 ± 0.1243
pull
Entries 41
Mean 4.369
Std Dev 13.49

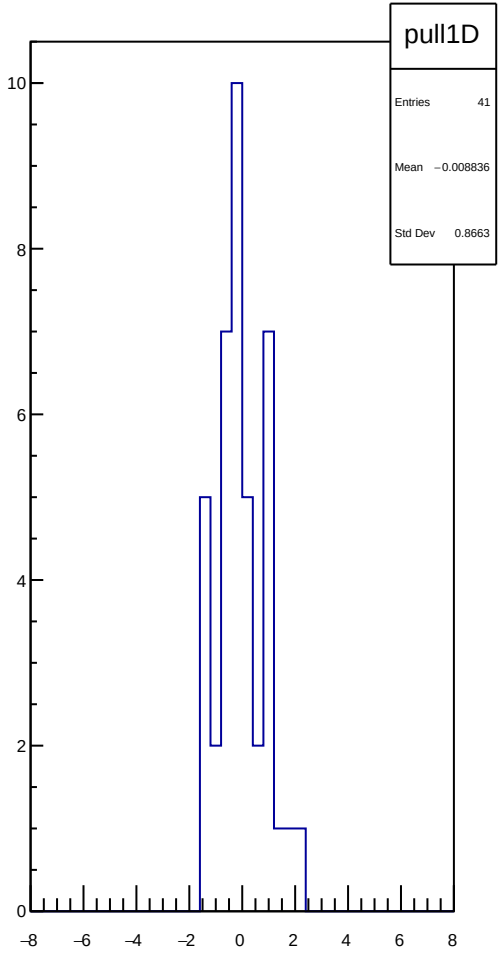

pull1D
Entries 41
Mean 0.03905
Std Dev 1.065

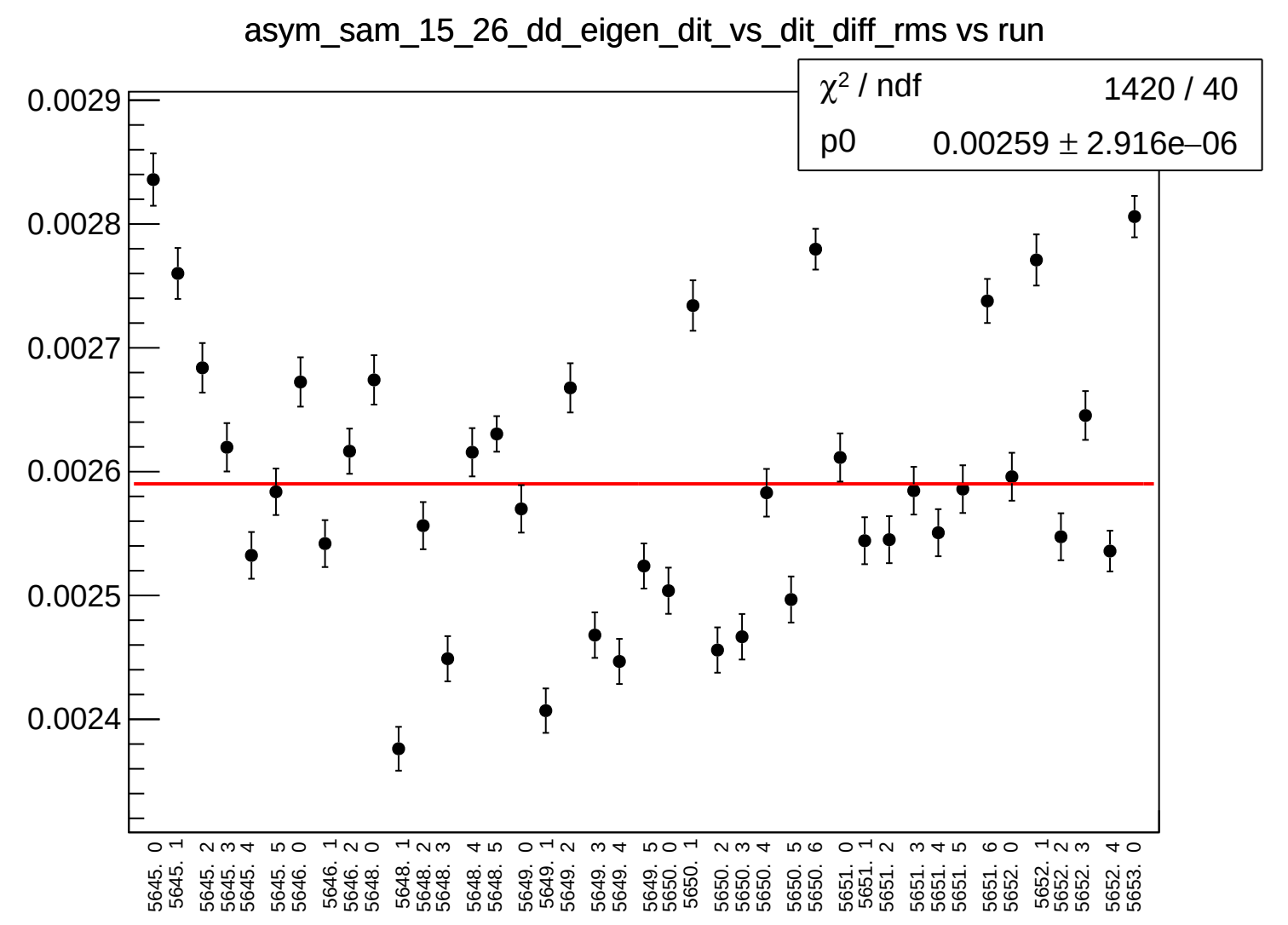

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.266e+04 / 40
p0 76 ± 0.08789
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

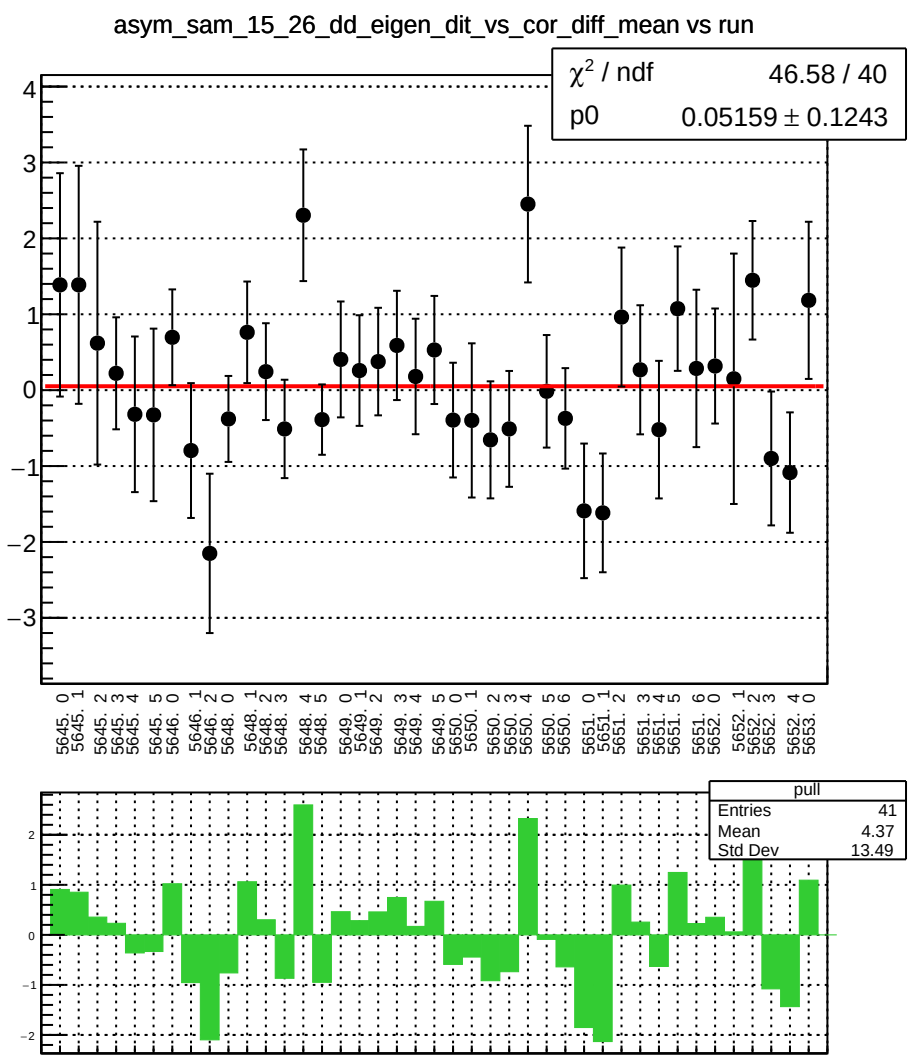

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.58 / 40
p0 0.05159 ± 0.1243
pull
Entries 41
Mean 4.369
Std Dev 13.49
pull1D
Entries 41
Mean 0.03905
Std Dev 1.065

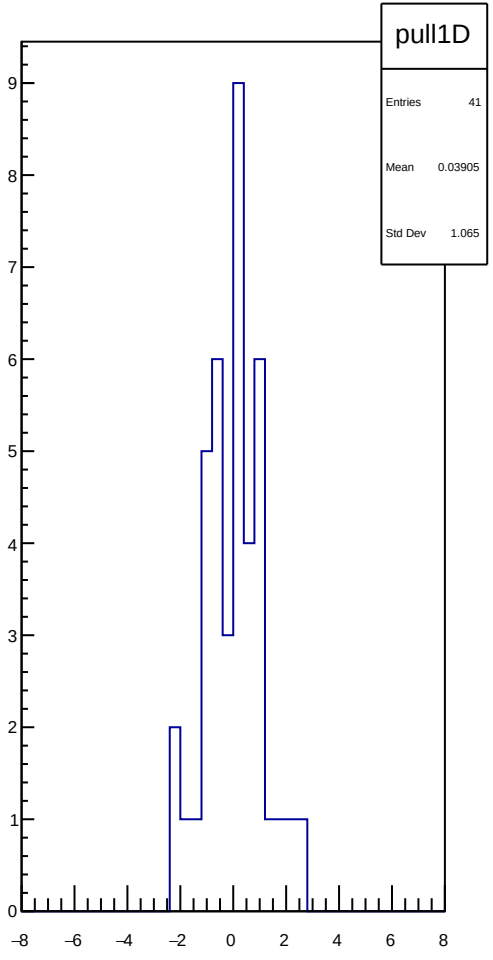

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.266e+04 / 40
p0 76 ± 0.08789
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

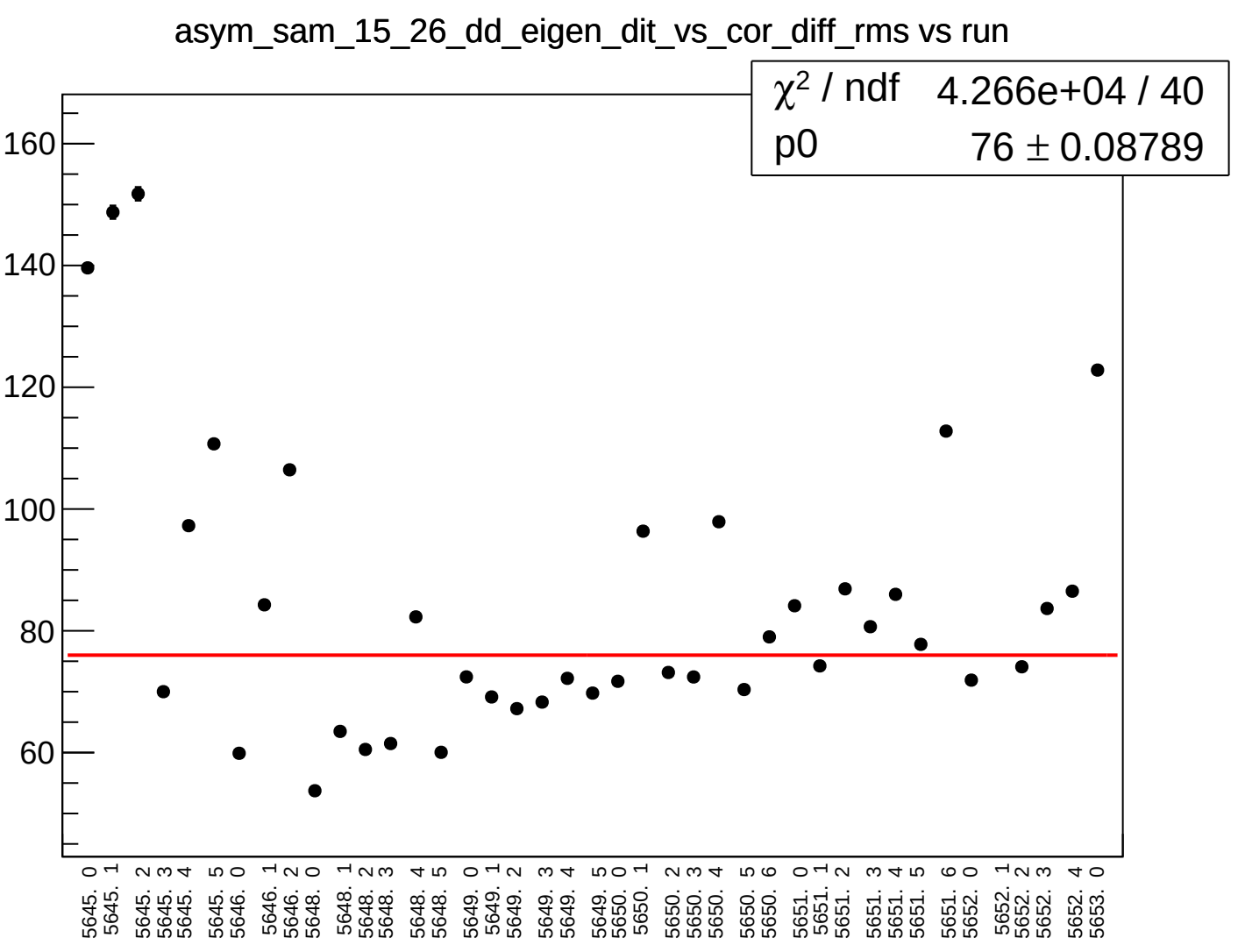

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.77 / 40
p0 1.866e−06 ± 4.124e−06
pull
Entries 41
Mean −105.6
Std Dev 0

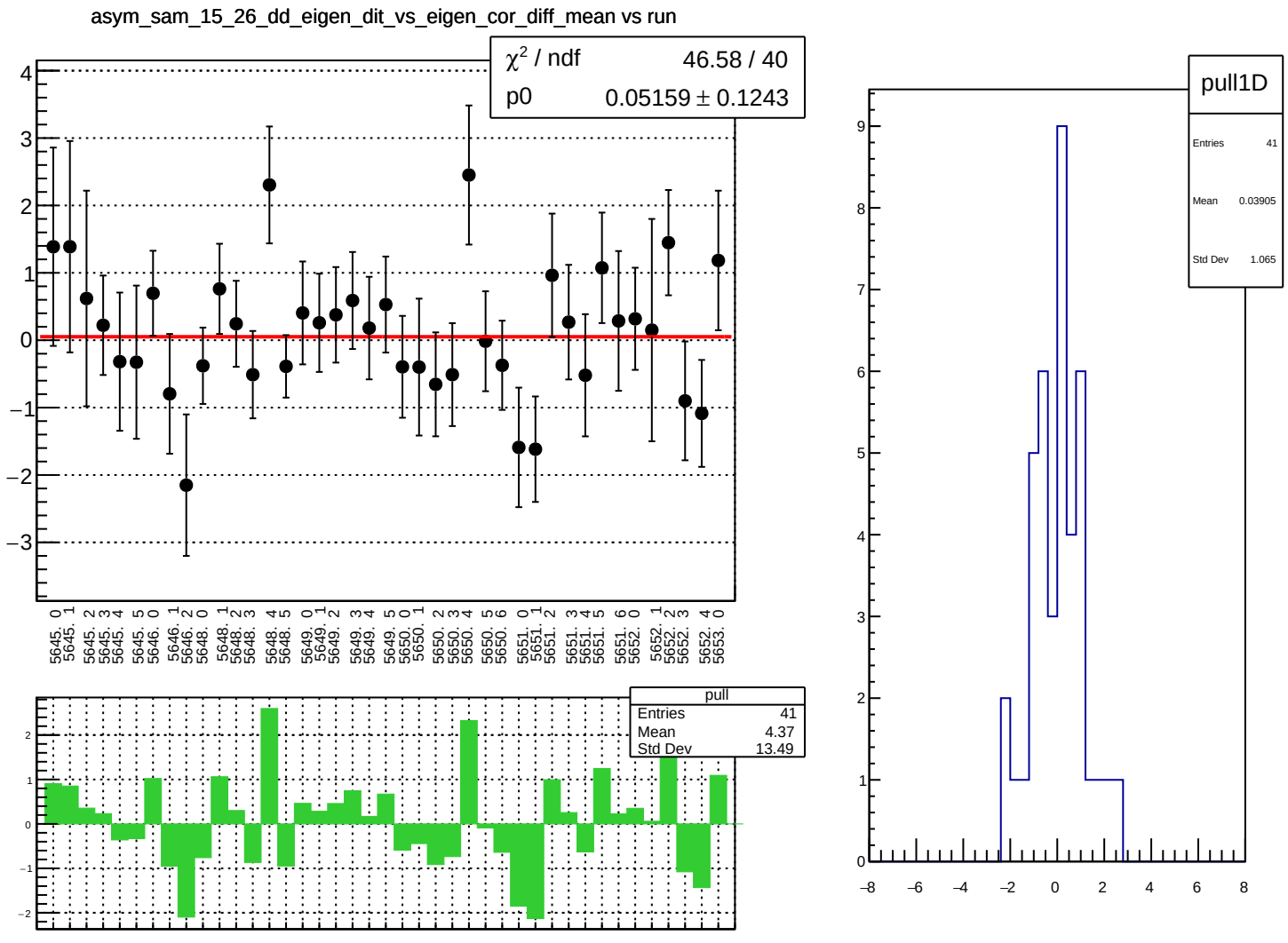

pull1D
Entries 41
Mean −0.008836
Std Dev 0.8663

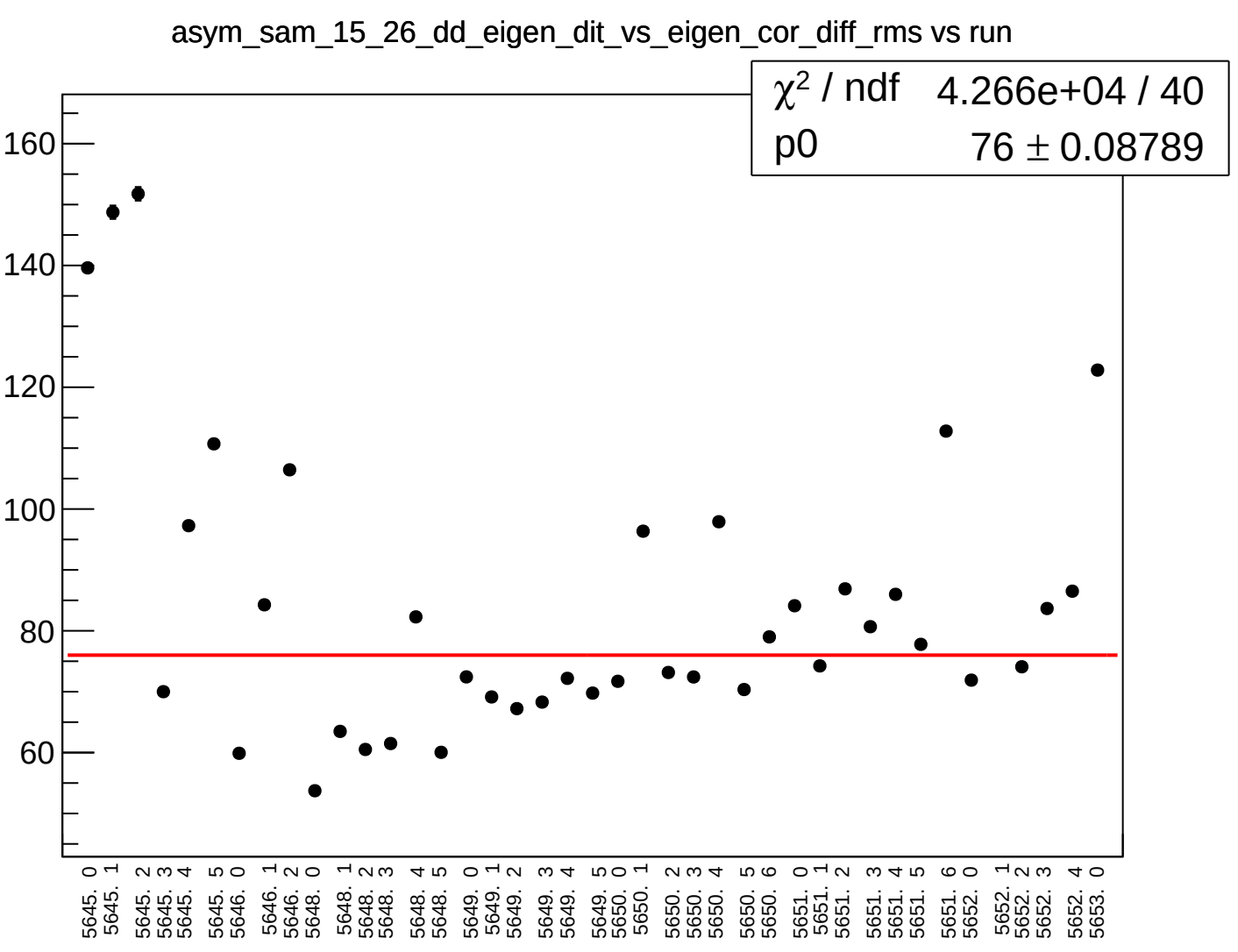

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1420 / 40
p0 0.00259 ± 2.916e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

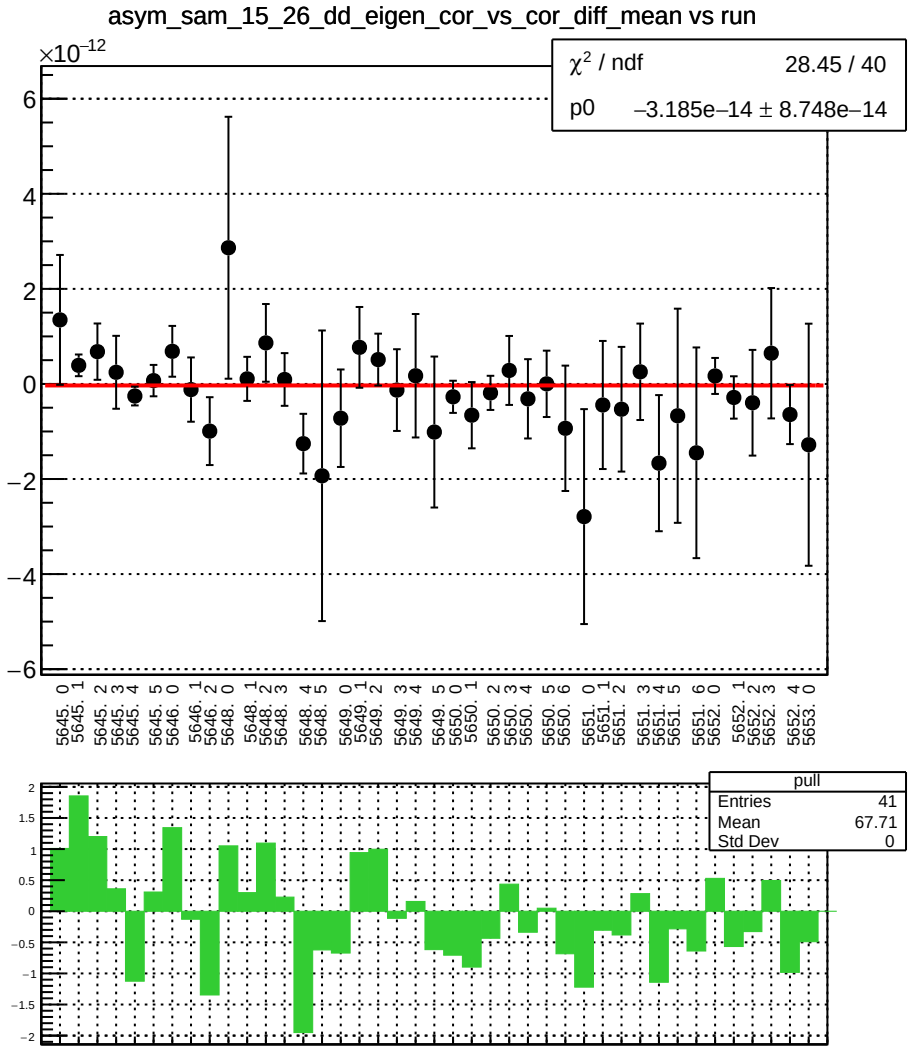

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.58 / 40
p0 0.05159 ± 0.1243
pull
Entries 41
Mean 4.37
Std Dev 13.49

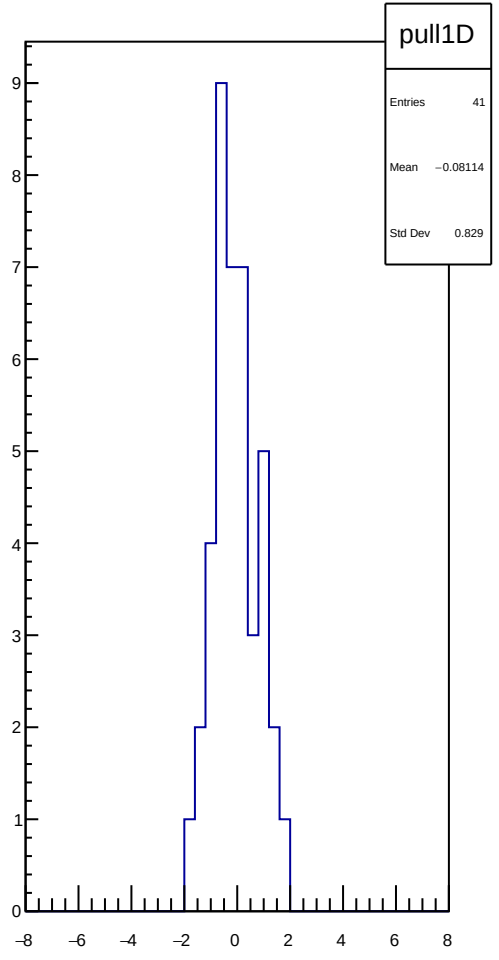

pull1D
Entries 41
Mean 0.03905
Std Dev 1.065

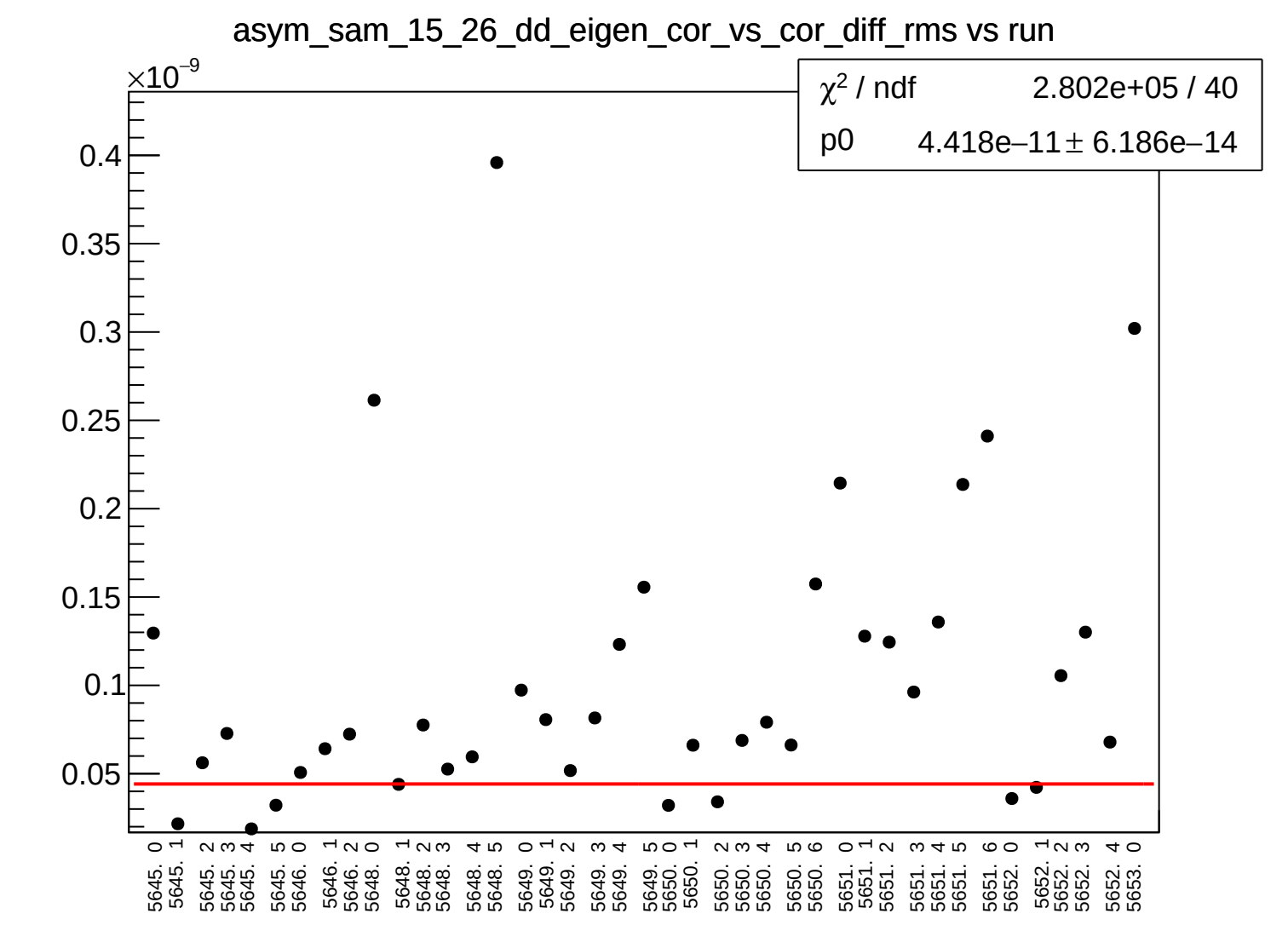

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.266e+04 / 40
p0 76 ± 0.08789
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

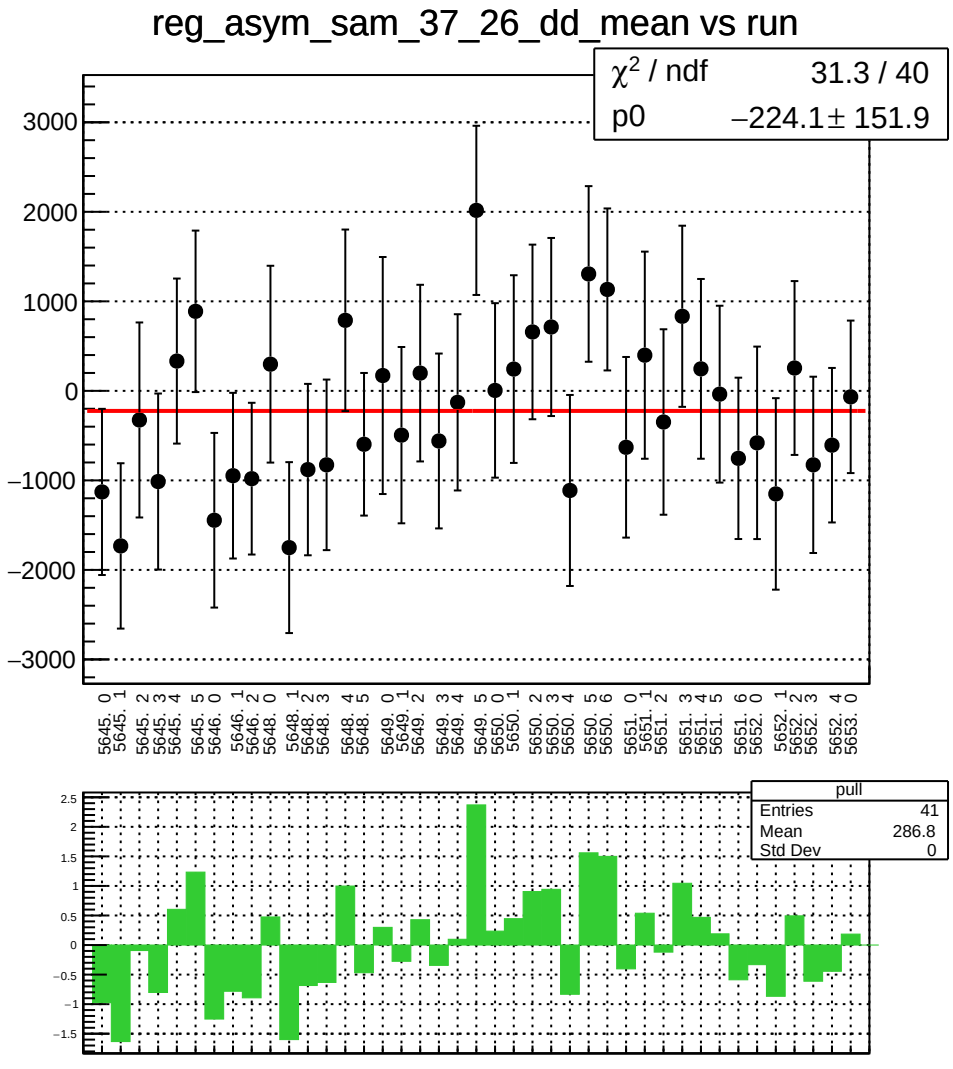

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.58 / 40
p0 0.05159 ± 0.1243
pull
Entries 41
Mean 4.37
Std Dev 13.49
pull1D
Entries 41
Mean 0.03905
Std Dev 1.065

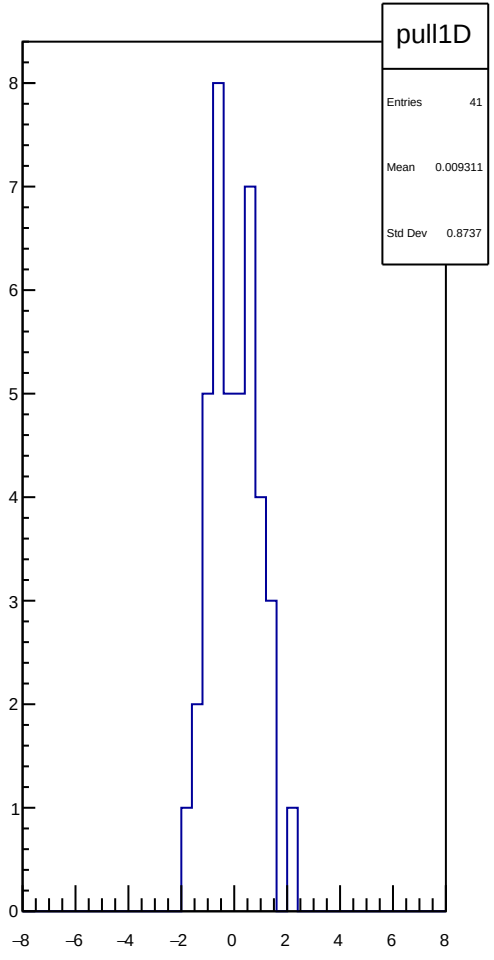

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.266e+04 / 40
p0 76 ± 0.08789
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

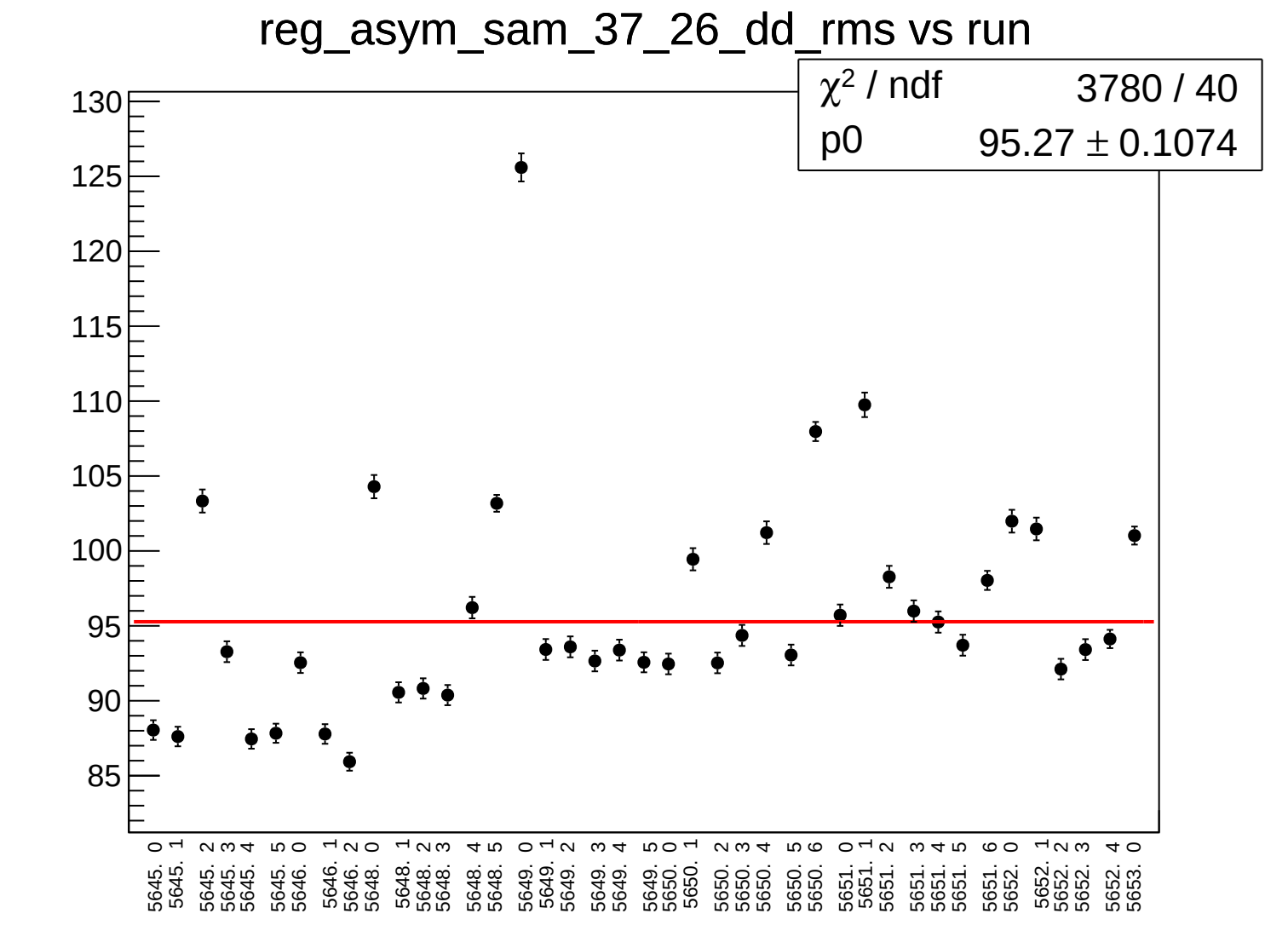

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 28.45 / 40
p0 −3.185e−14 ± 8.748e−14
pull
Entries 41
Mean 67.71
Std Dev 0

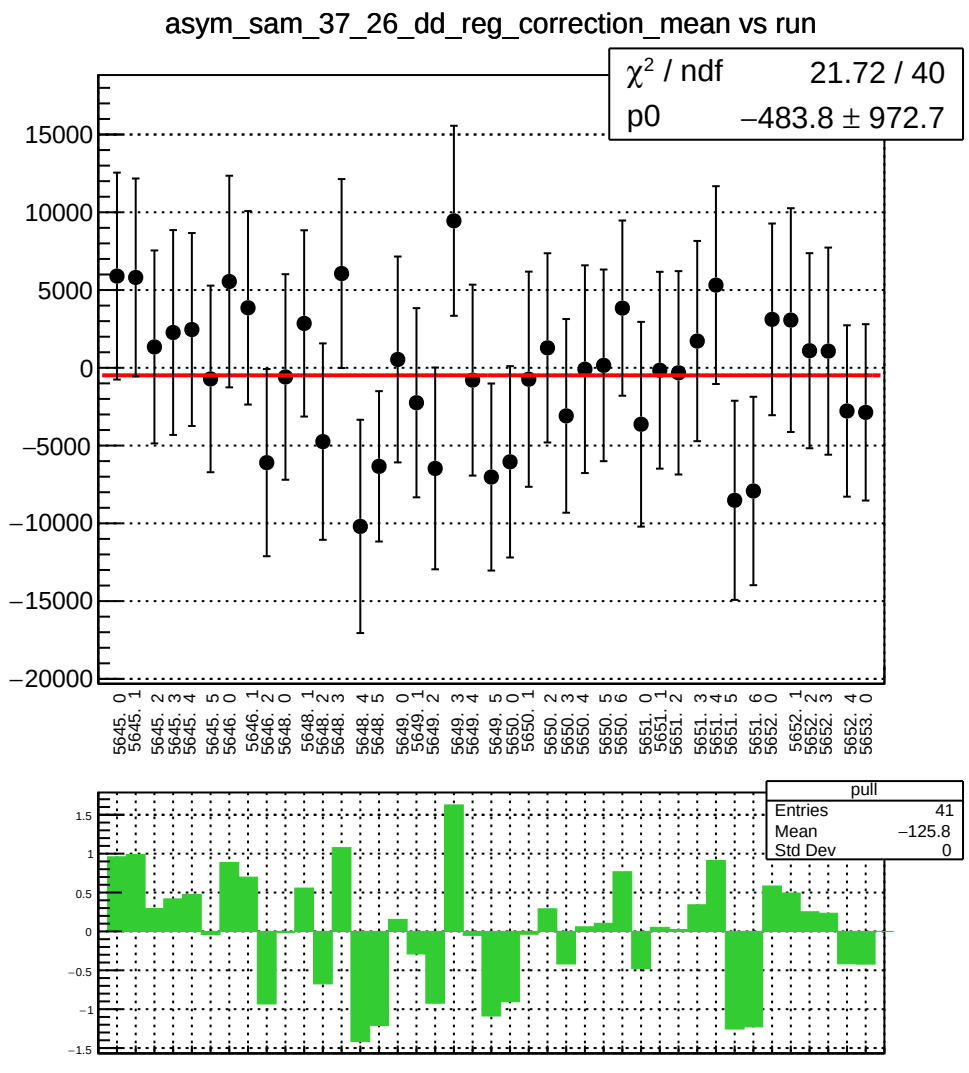

pull1D
Entries 41
Mean −0.08114
Std Dev 0.829

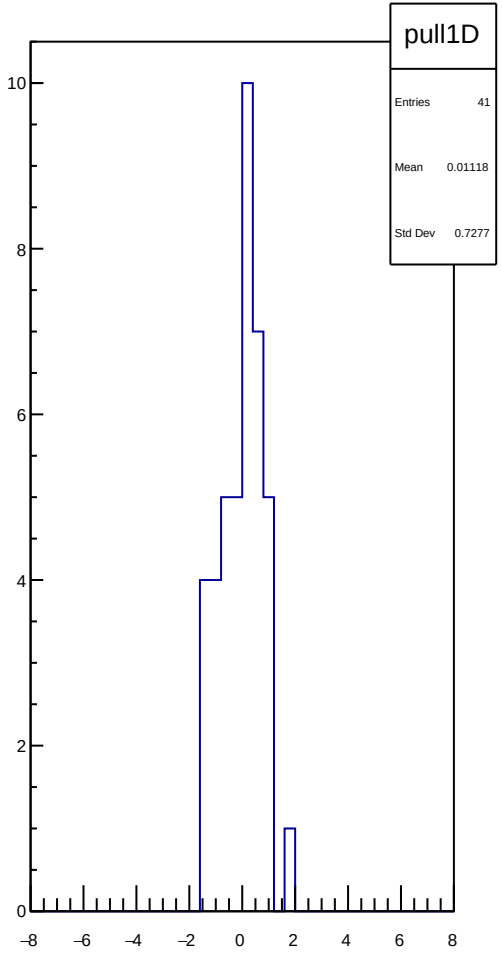

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.802e+05 / 40
p0 4.418e−11 ± 6.186e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

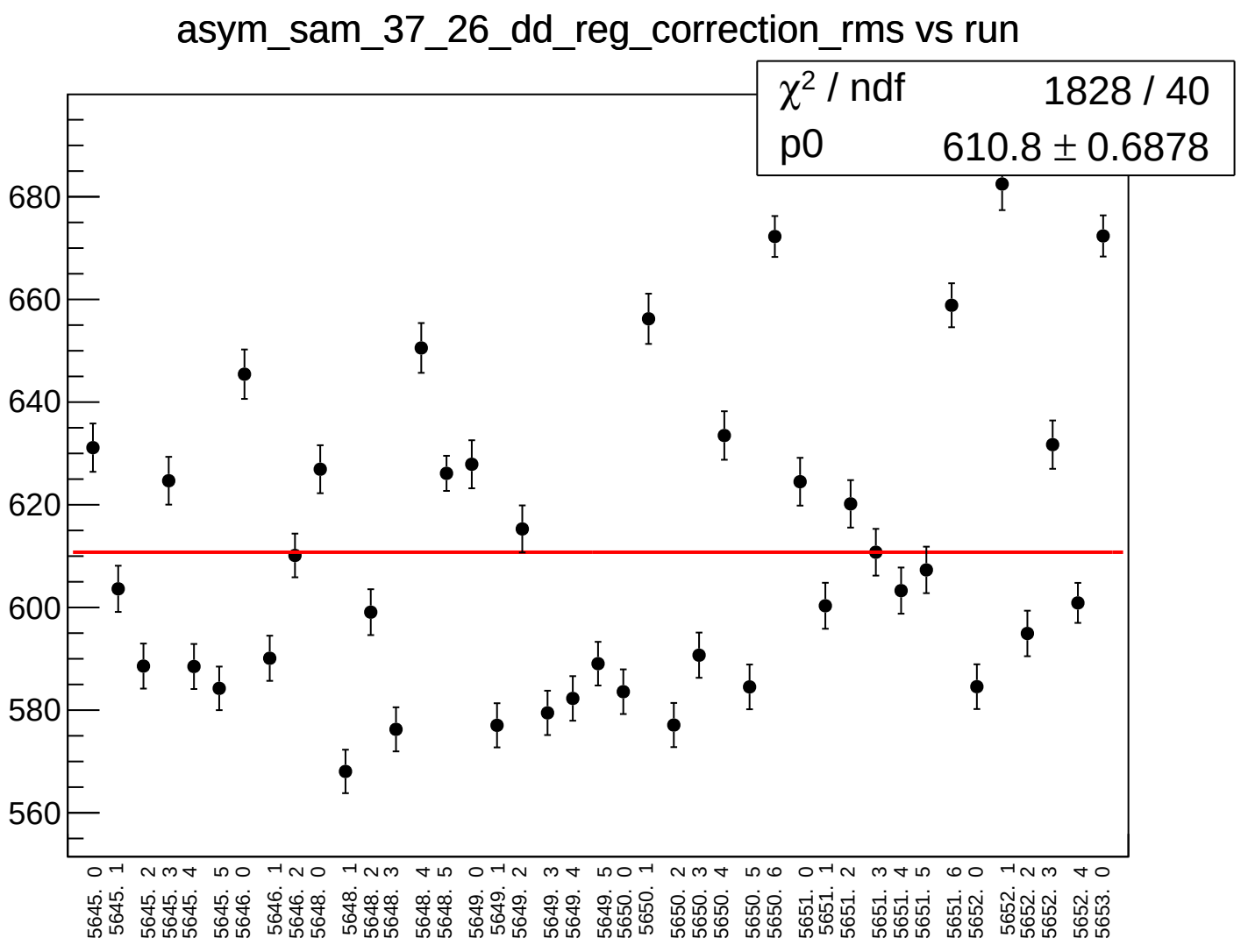

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.3 / 40
p0 −224.1± 151.9
pull
Entries 41
Mean 286.8
Std Dev 0

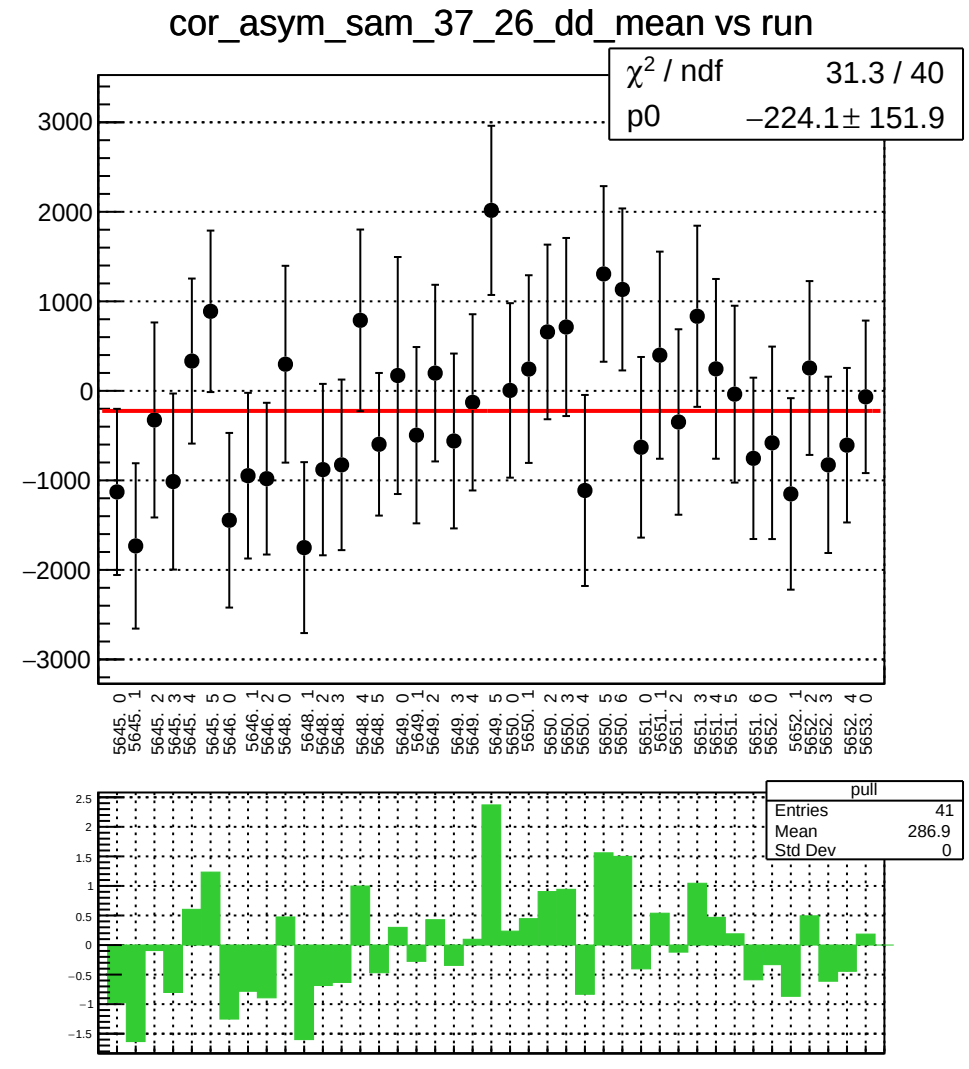

pull1D
Entries 41
Mean 0.009311
Std Dev 0.8737

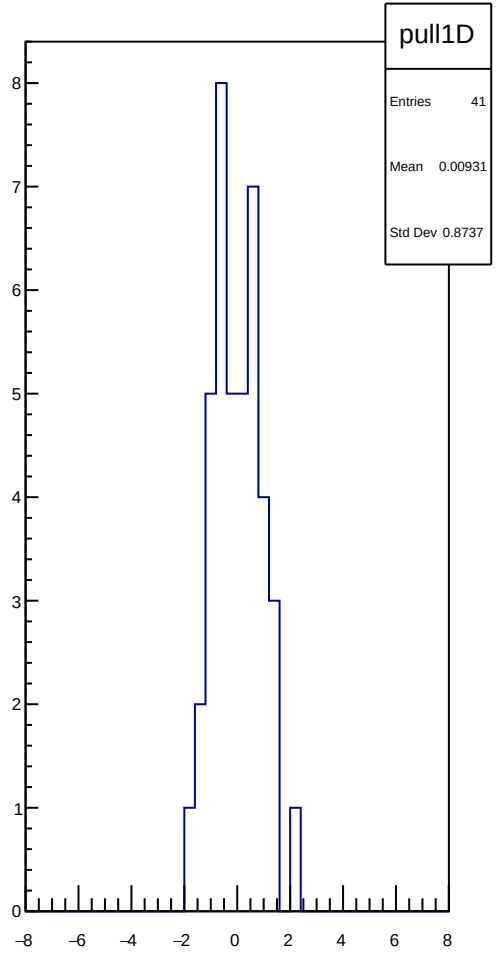

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3780 / 40
p0 95.27 ± 0.1074
130
125
120
115
110
105
100
95
90
85
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

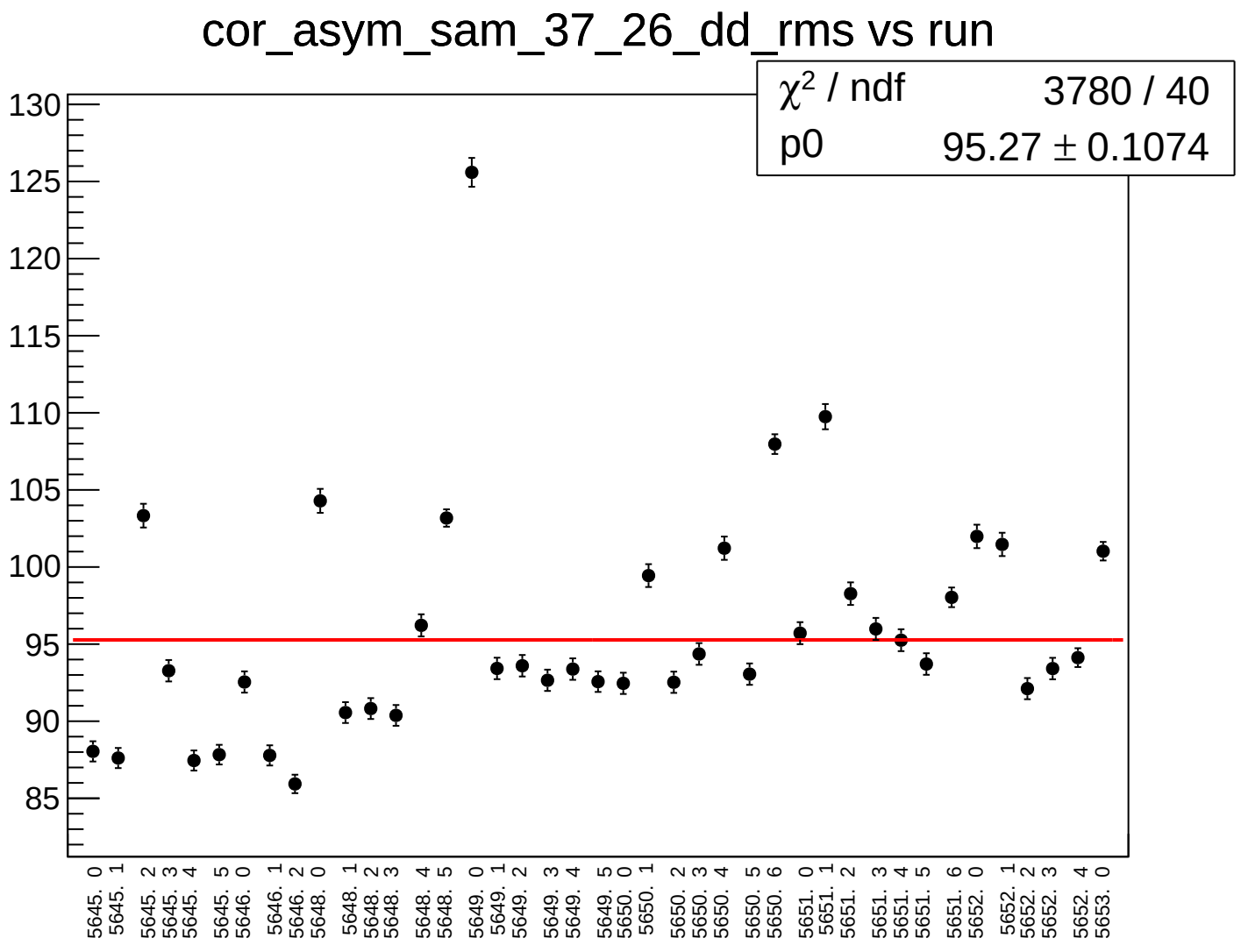

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 21.72 / 40
p0 −483.8 ± 972.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −125.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01118
Std Dev 0.7277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1828 / 40
p0 610.8 ± 0.6878
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.3 / 40
p0 −224.1± 151.9
pull
Entries 41
Mean 286.9
Std Dev 0


pull1D
Entries 41
Mean 0.00931
Std Dev 0.8737


cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3780 / 40
p0 95.27 ± 0.1074
130
125
120
115
110
105
100
95
90
85
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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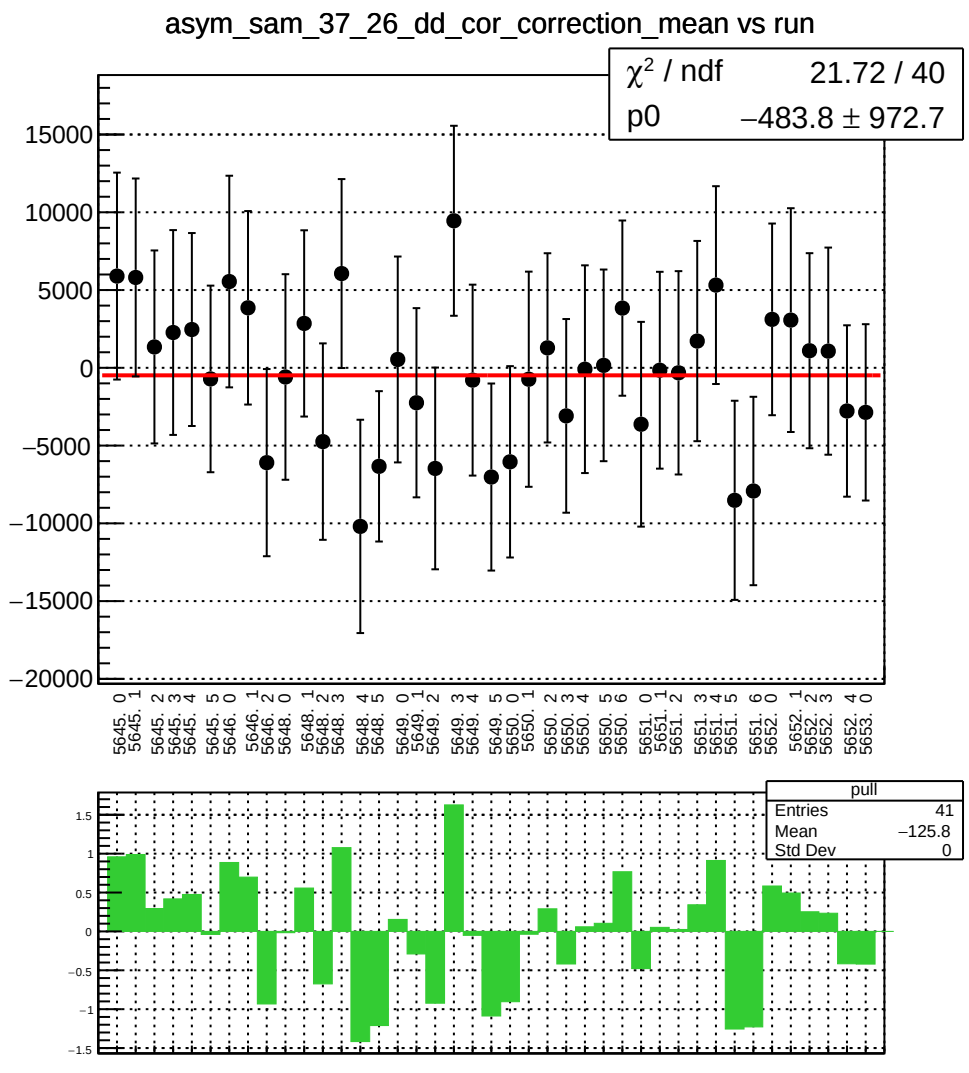
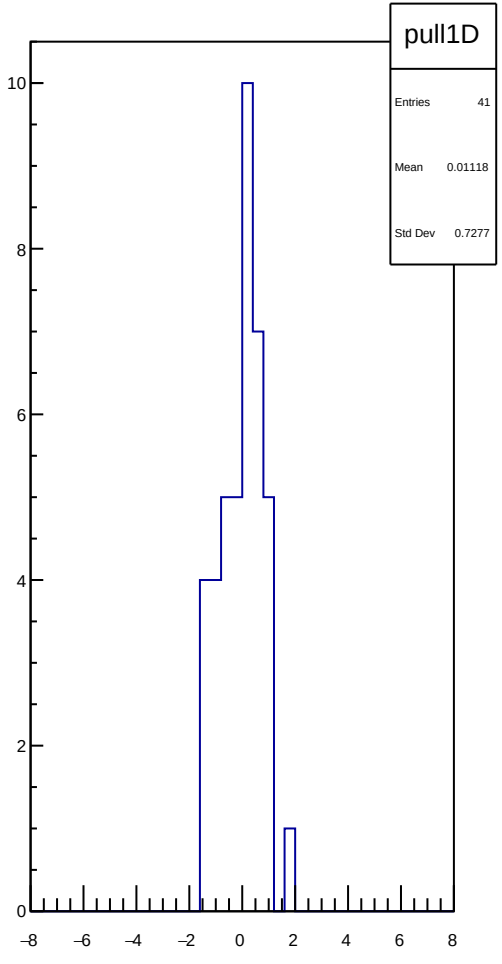
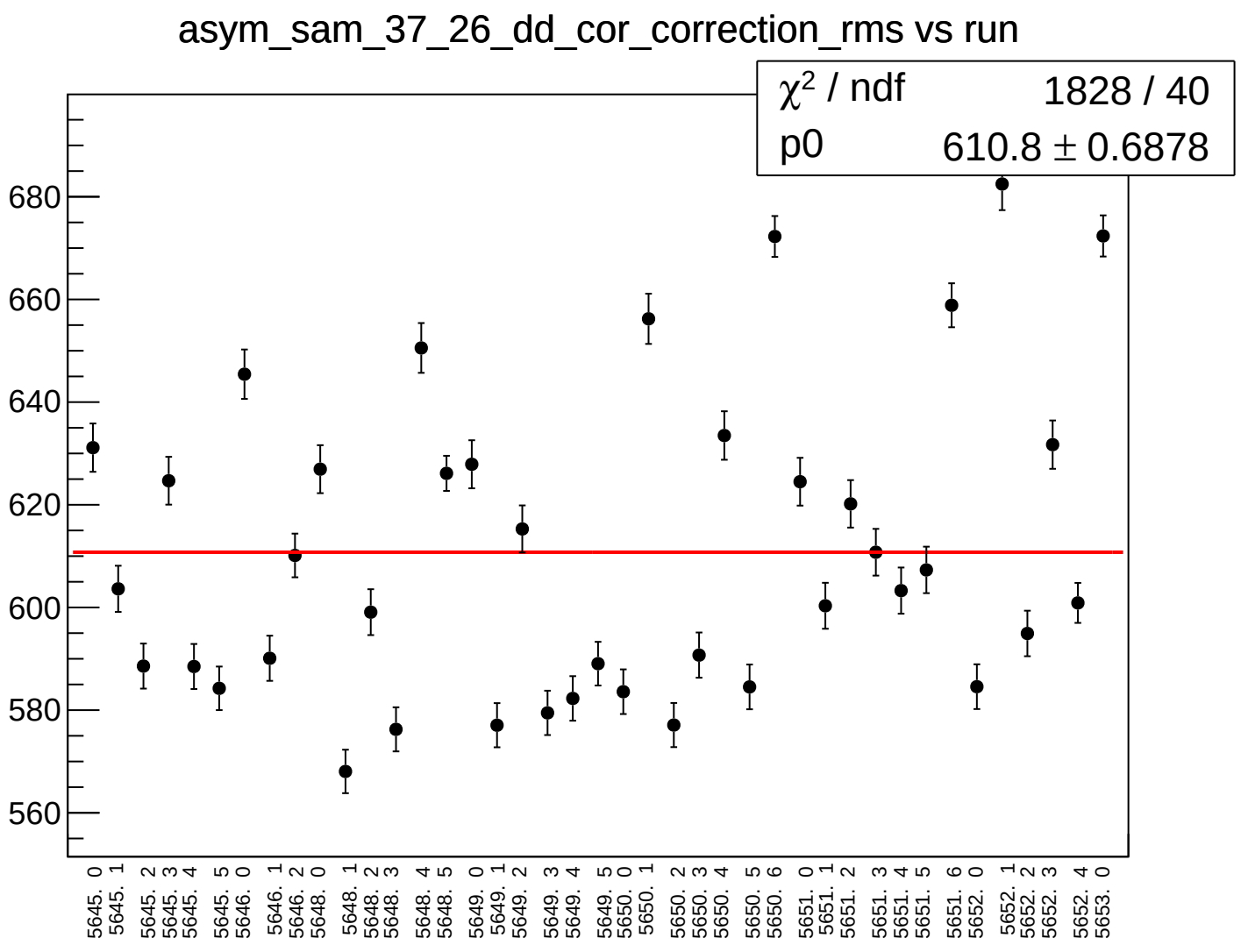
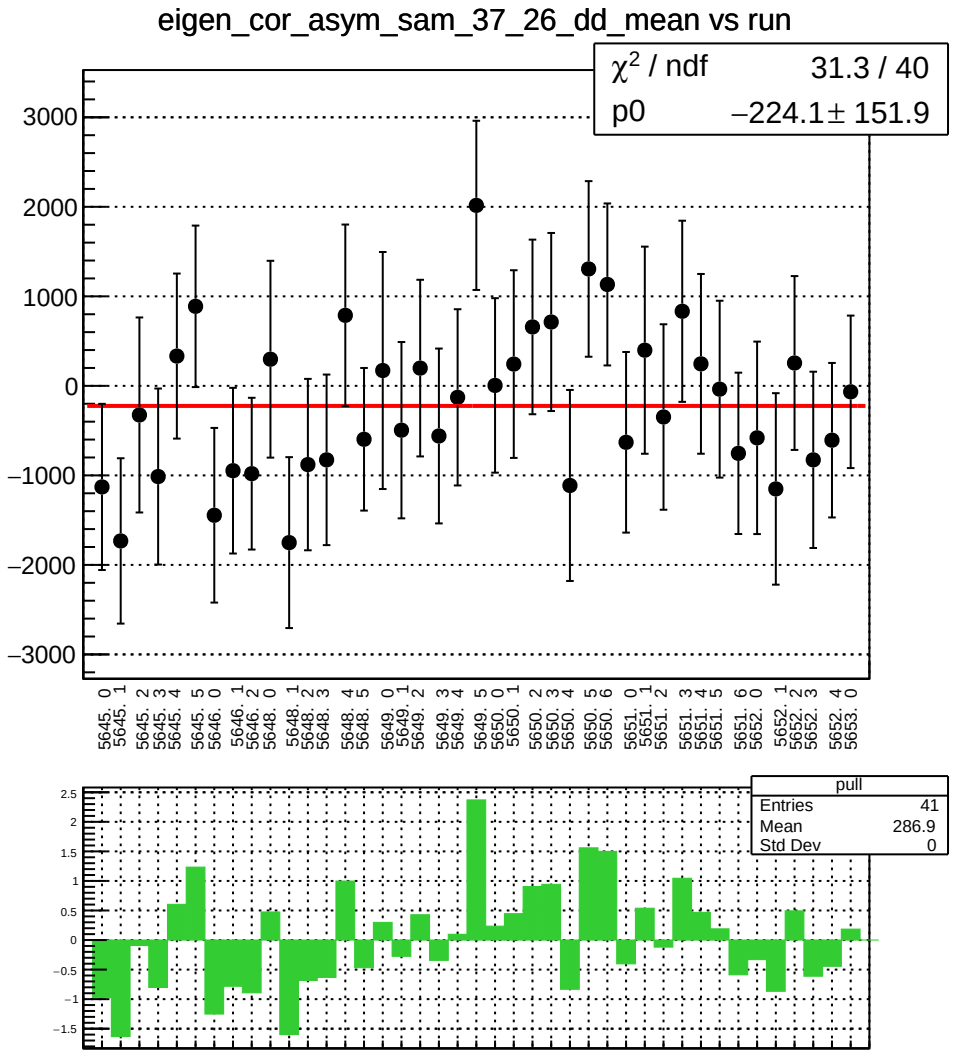
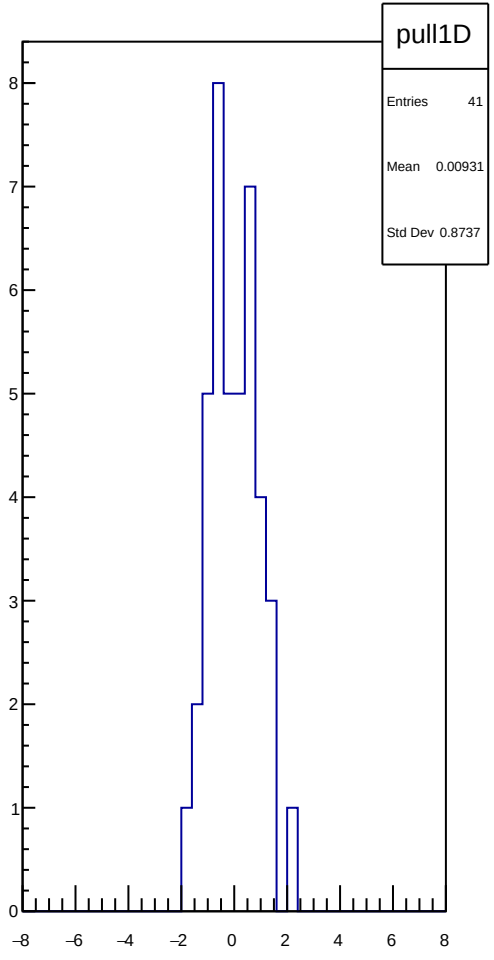
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

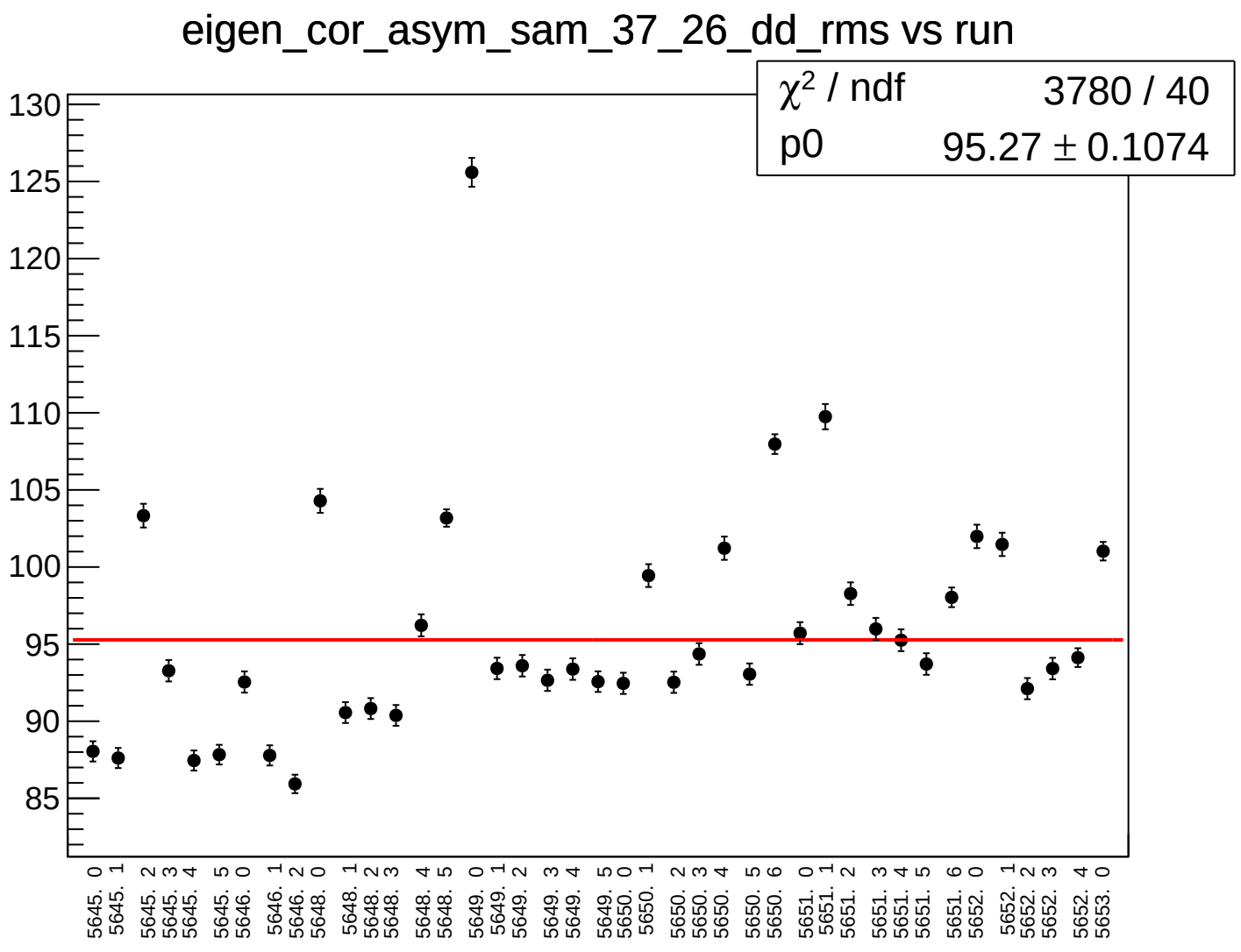

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 21.72 / 40
p0 −483.8 ± 972.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −125.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 41
Mean 0.01118
Std Dev 0.7277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 1828 / 40
p0 610.8 ± 0.6878
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 31.3 / 40
p0 −224.1± 151.9
pull
Entries 41
Mean 286.9
Std Dev 0


pull1D
Entries 41
Mean 0.00931
Std Dev 0.8737


eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3780 / 40
p0 95.27 ± 0.1074
130
125
120
115
110
105
100
95
90
85
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
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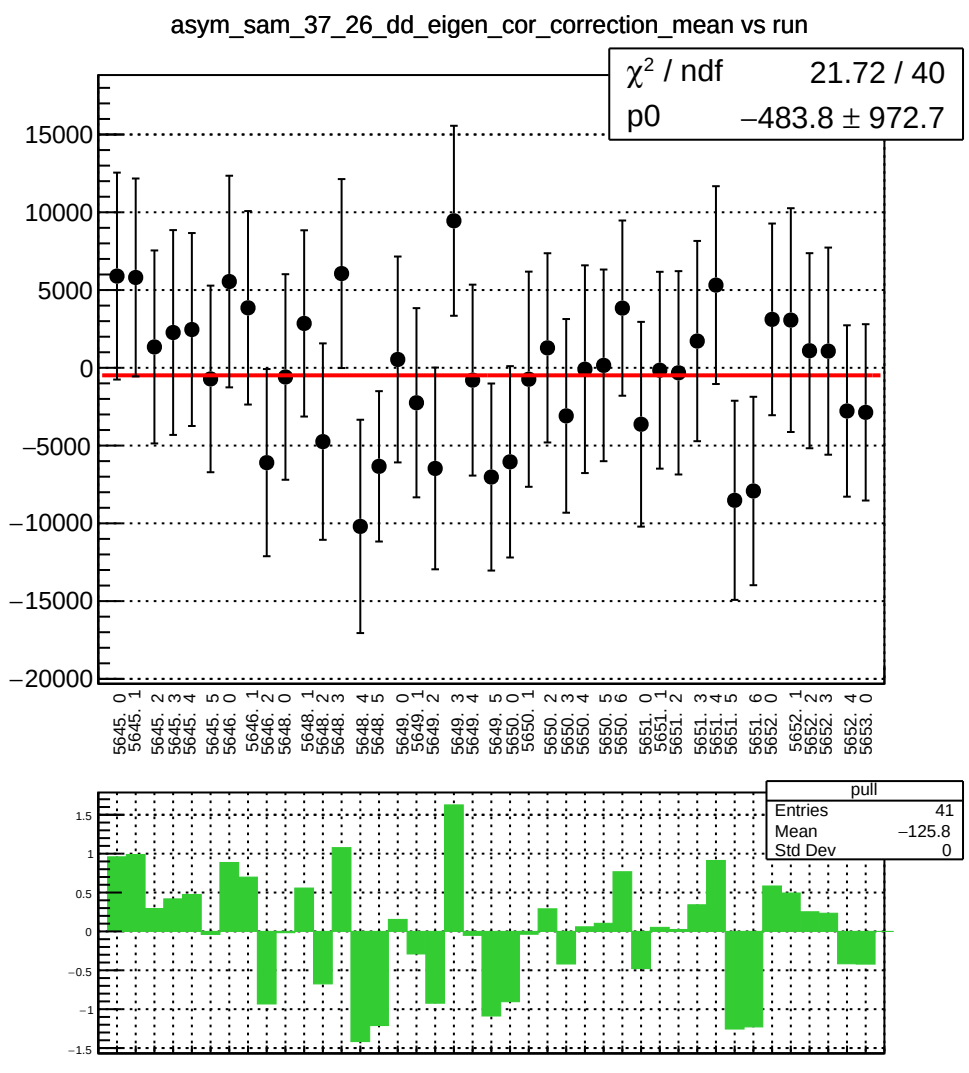
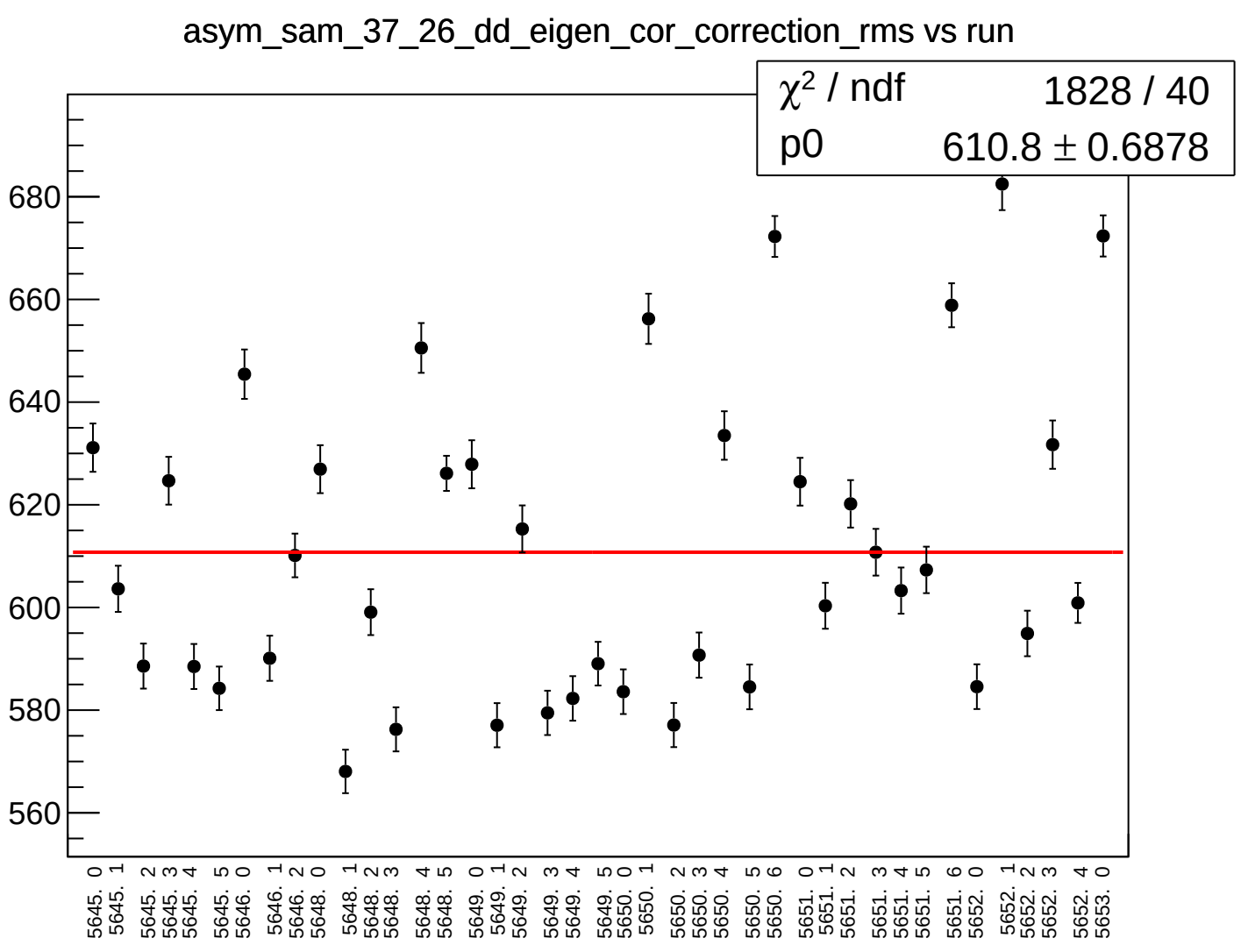
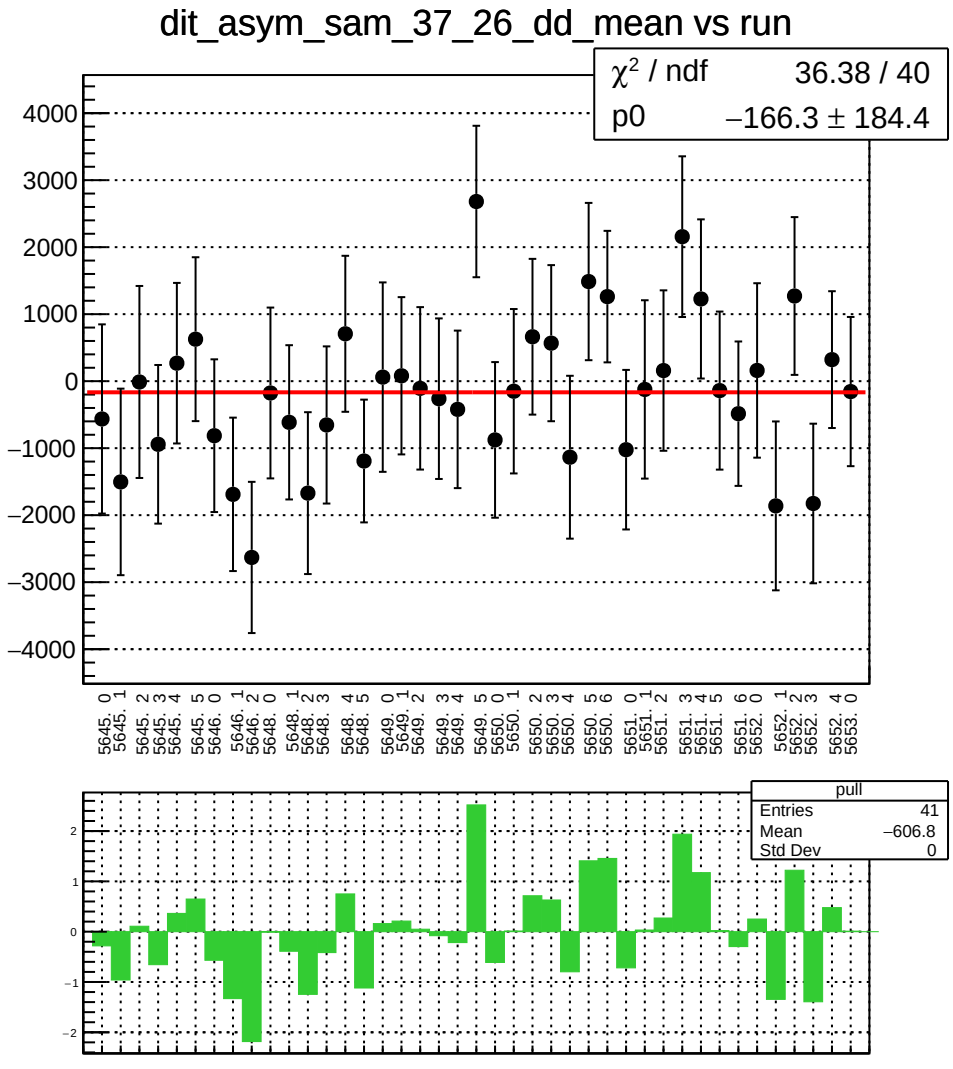
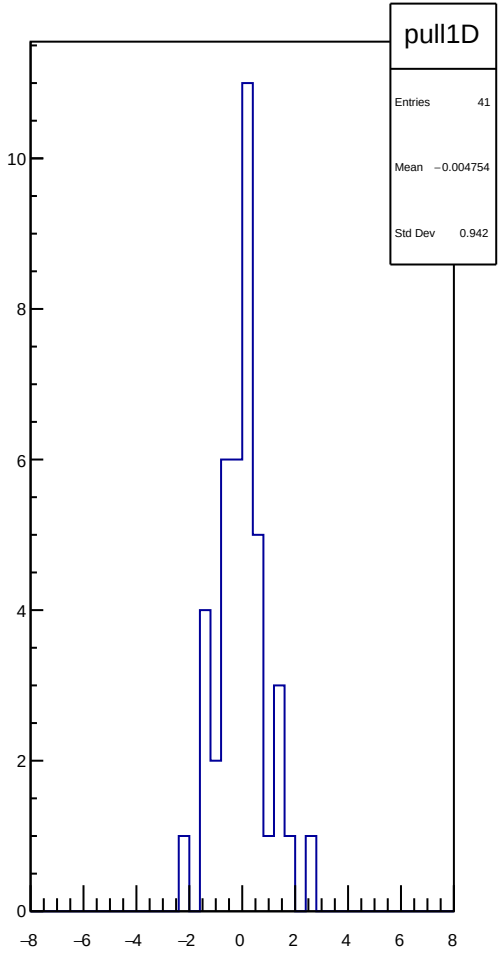
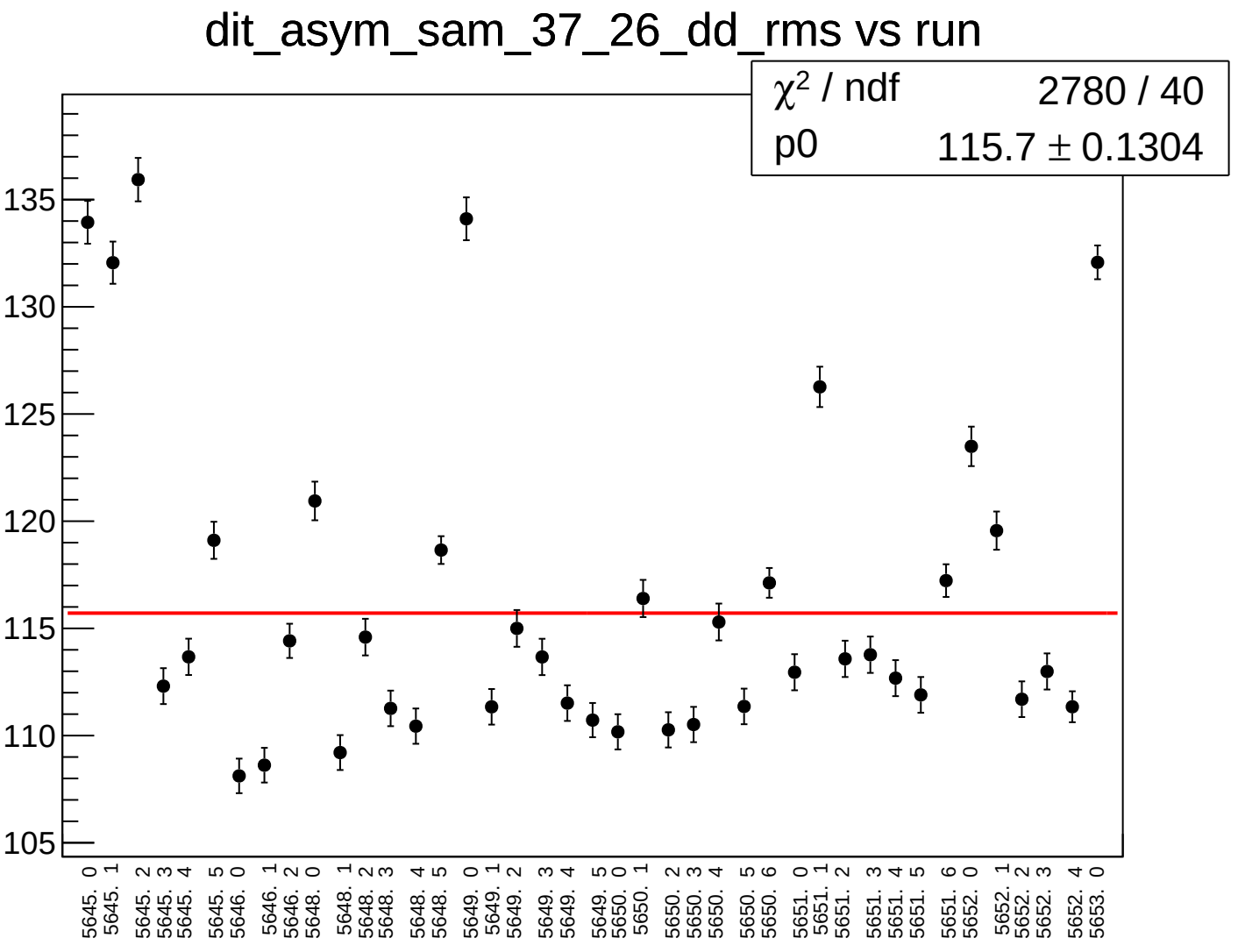
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 21.72 / 40
p0 −483.8 ± 972.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −125.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01118
Std Dev 0.7277
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1828 / 40
p0 610.8 ± 0.6878
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 36.38 / 40
p0 −166.3 ± 184.4
pull
Entries 41
Mean −606.8
Std Dev 0


pull1D
Entries 41
Mean −0.004754
Std Dev 0.942


dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2780 / 40
p0 115.7 ± 0.1304
135
130
125
120
115
110
105
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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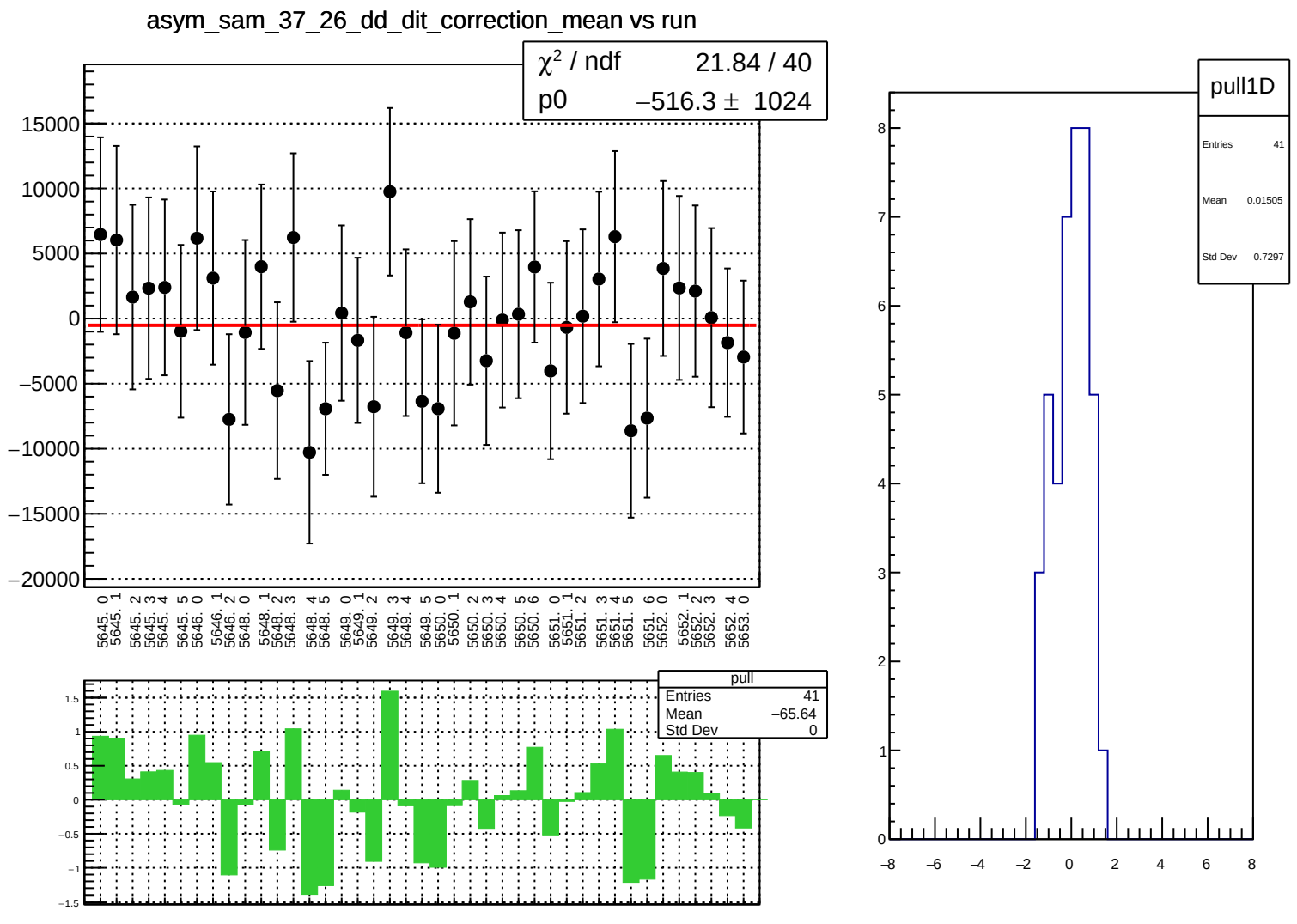
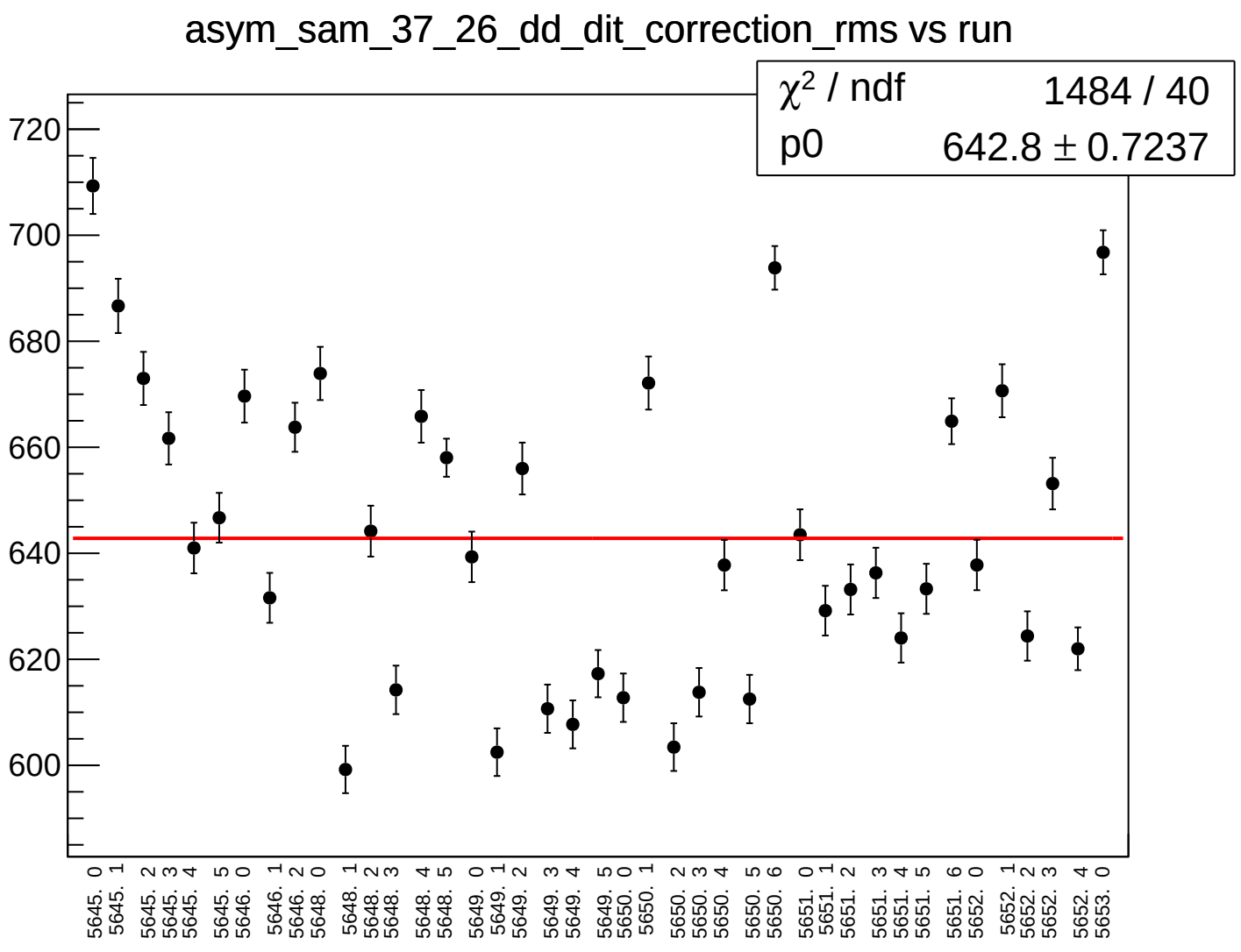
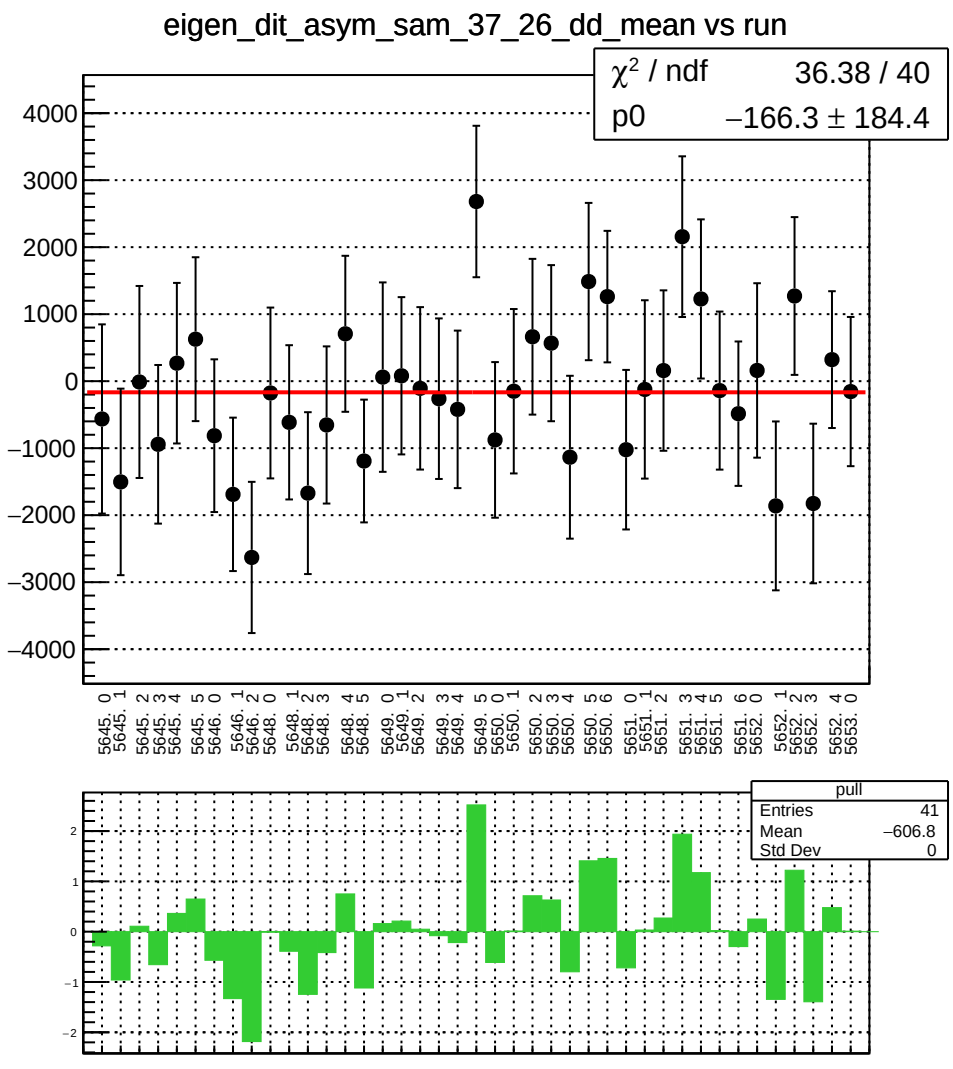
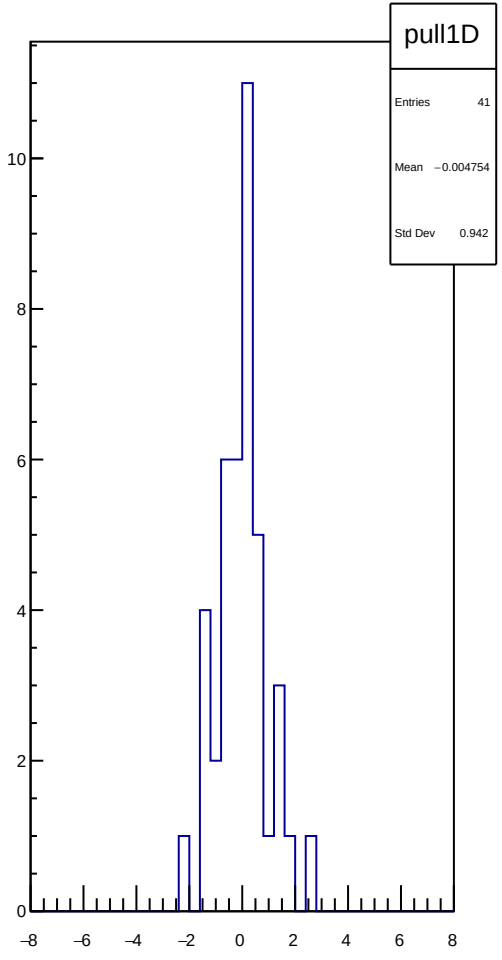
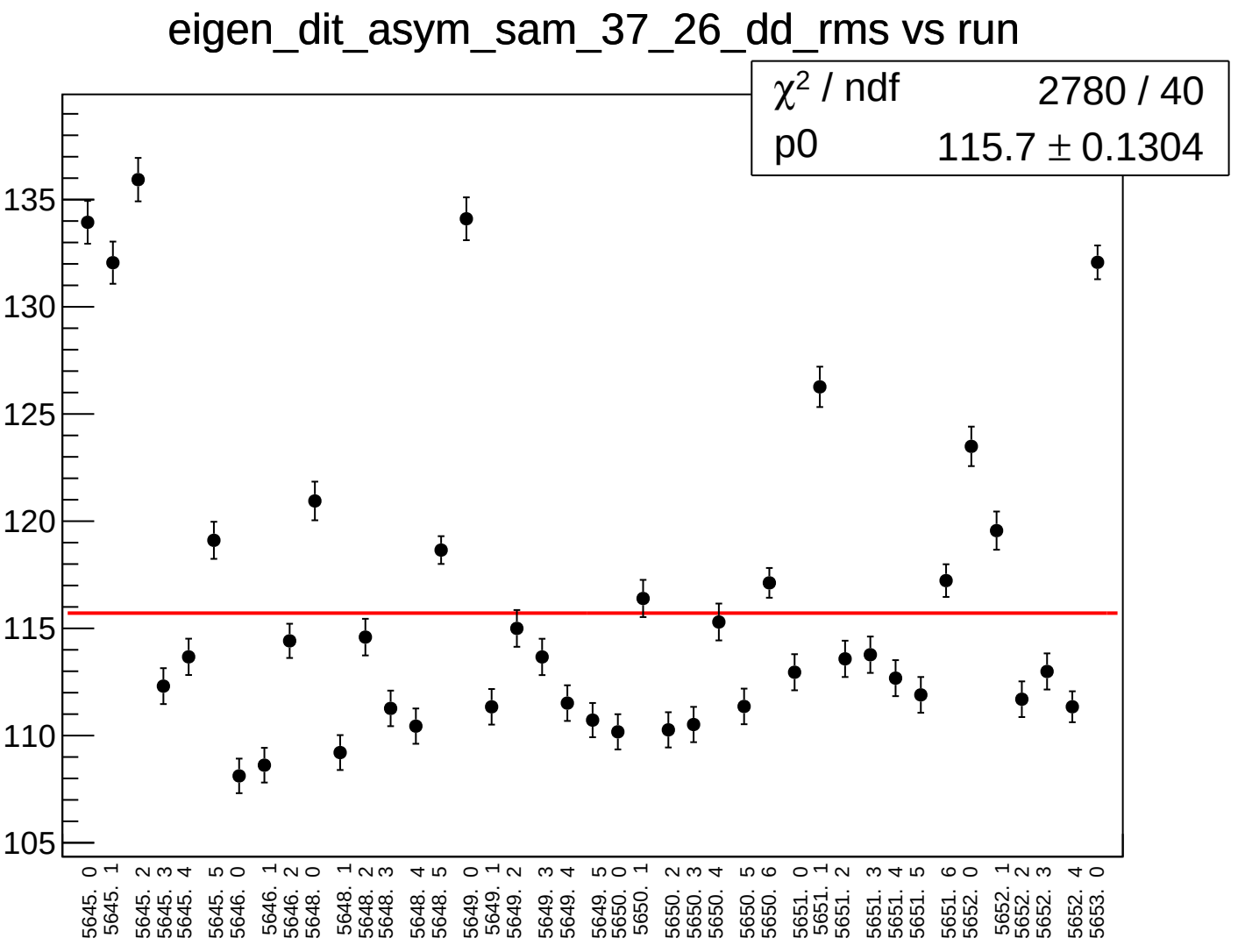
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 21.84 / 40
p0 −516.3 ± 1024
15000
10000
5000
0
−5000
−10000
−15000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −65.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01505
Std Dev 0.7297
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1484 / 40
p0 642.8 ± 0.7237
720
700
680
660
640
620
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 36.38 / 40
p0 −166.3 ± 184.4
pull
Entries 41
Mean −606.8
Std Dev 0


pull1D
Entries 41
Mean −0.004754
Std Dev 0.942


eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2780 / 40
p0 115.7 ± 0.1304
135
130
125
120
115
110
105
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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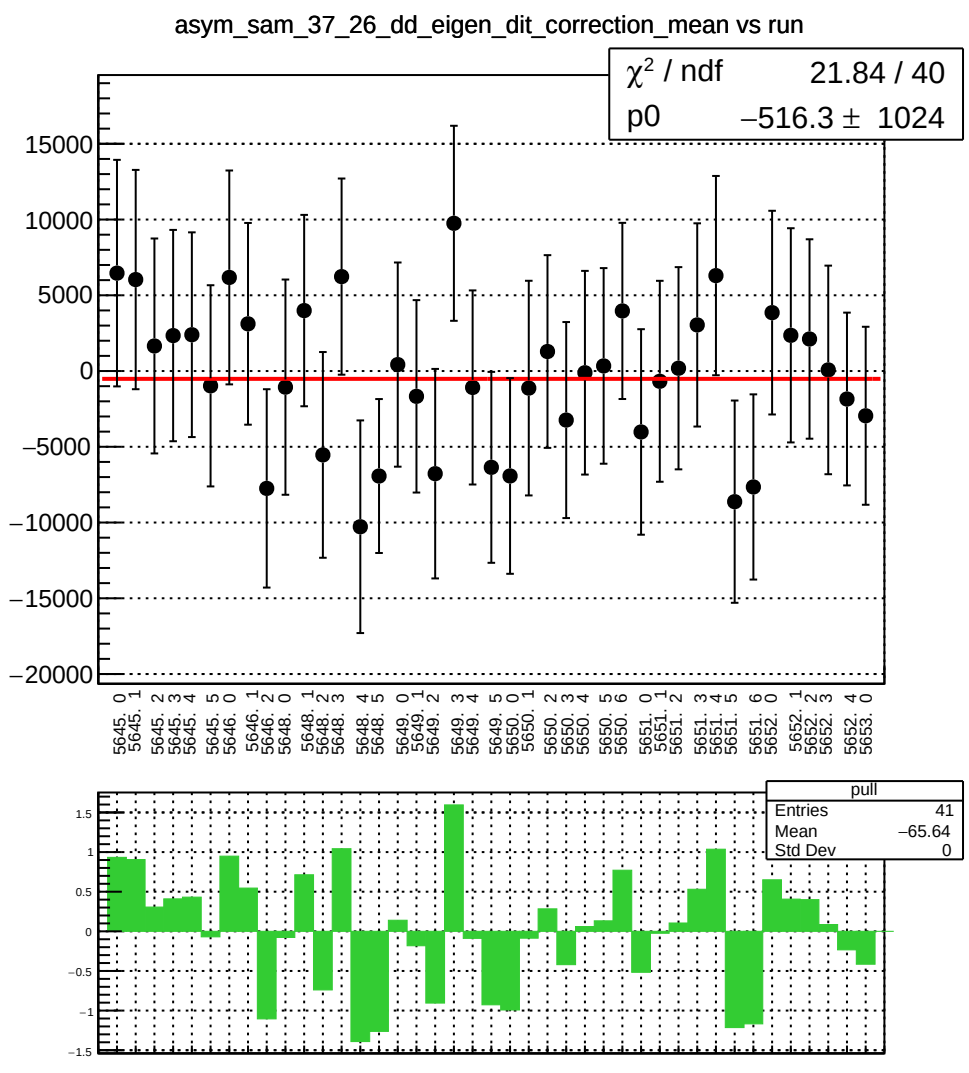
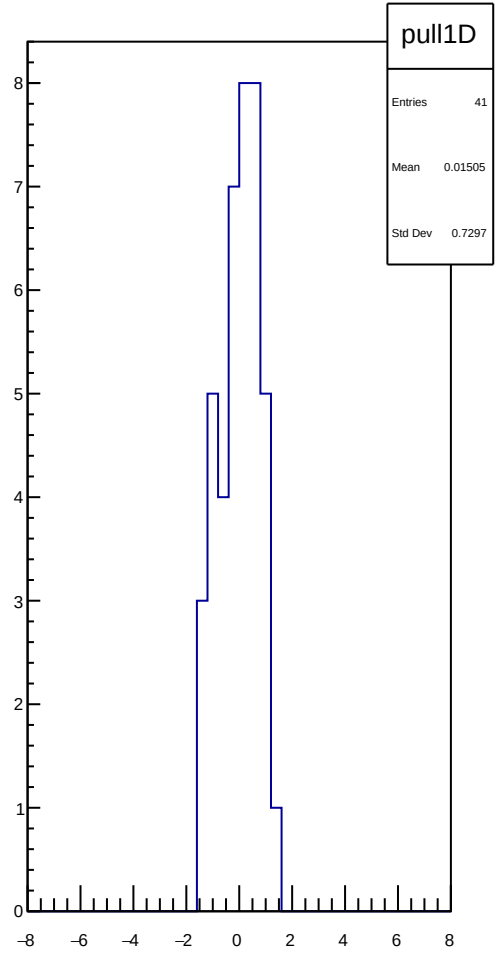
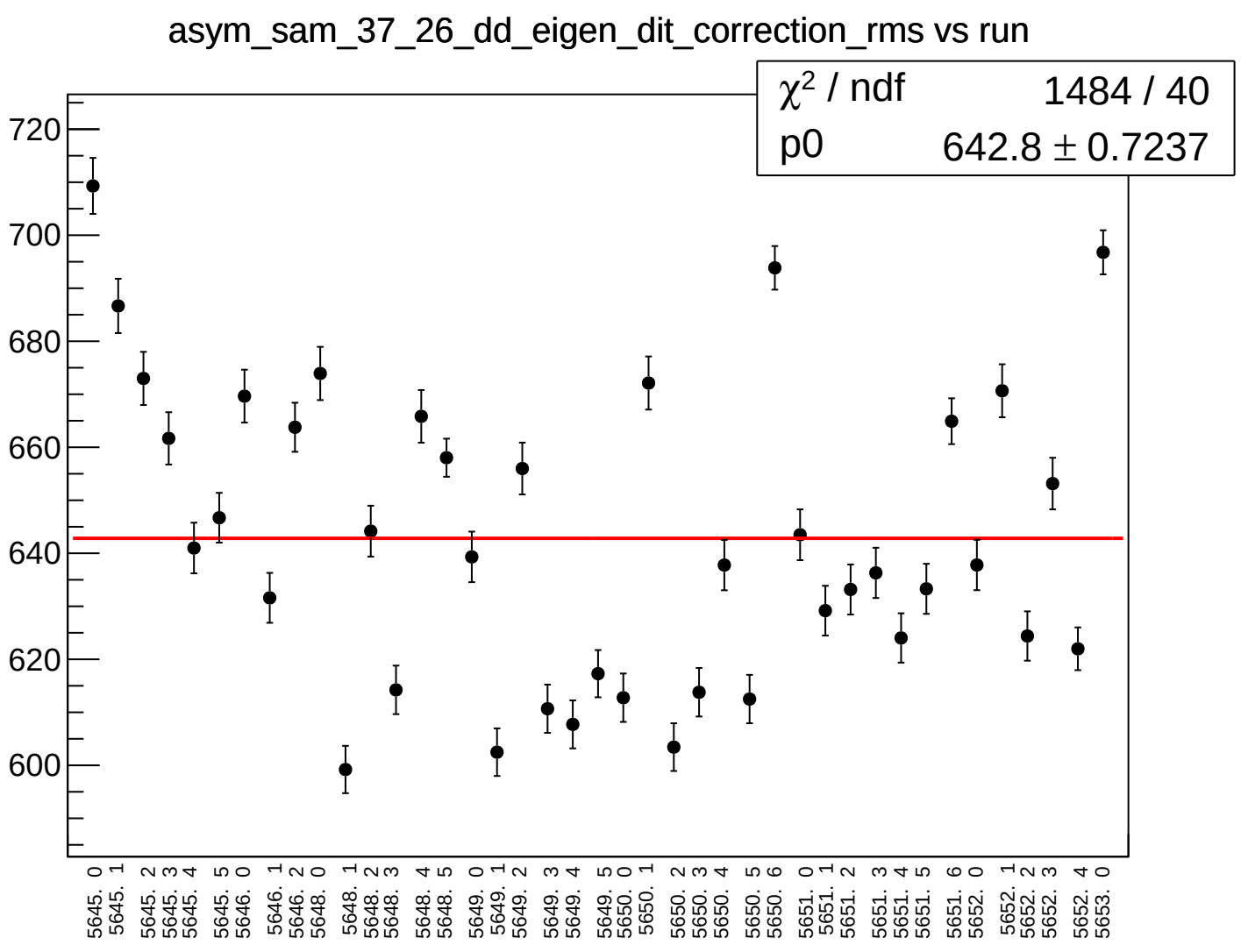
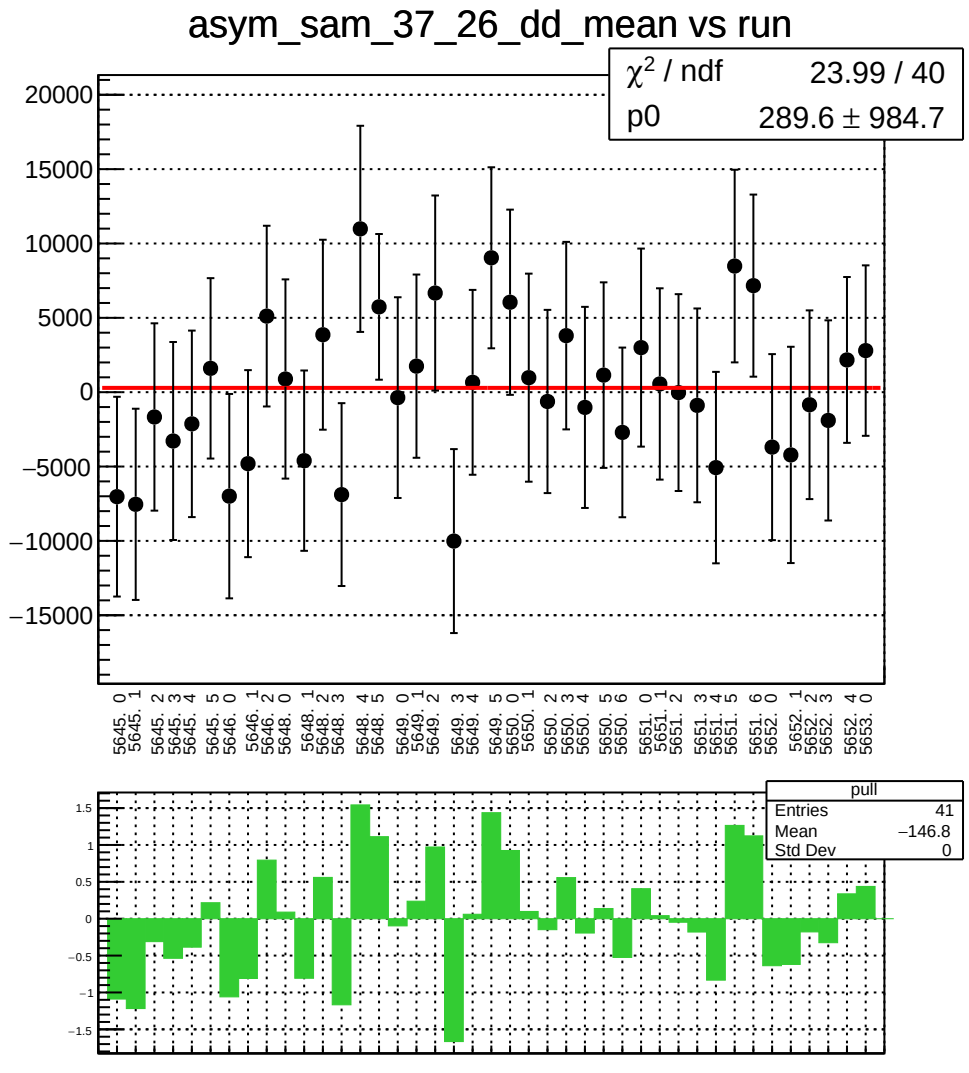
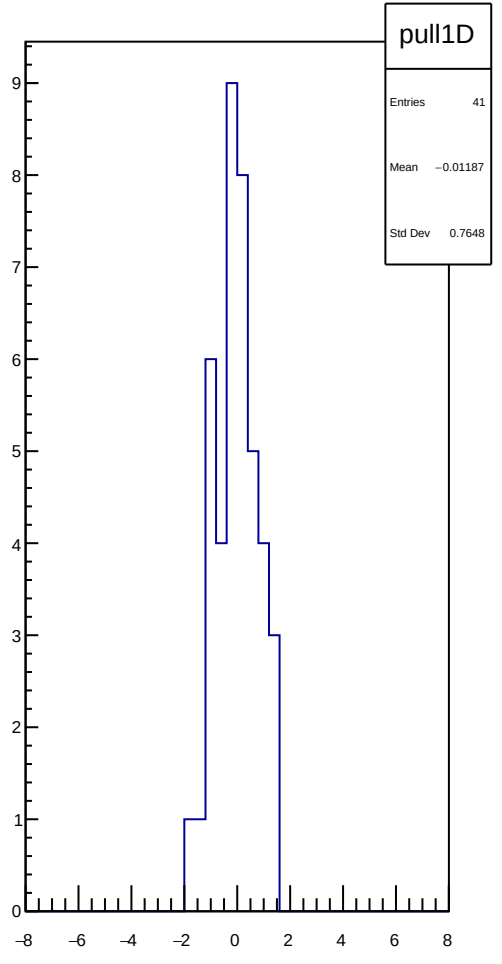
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

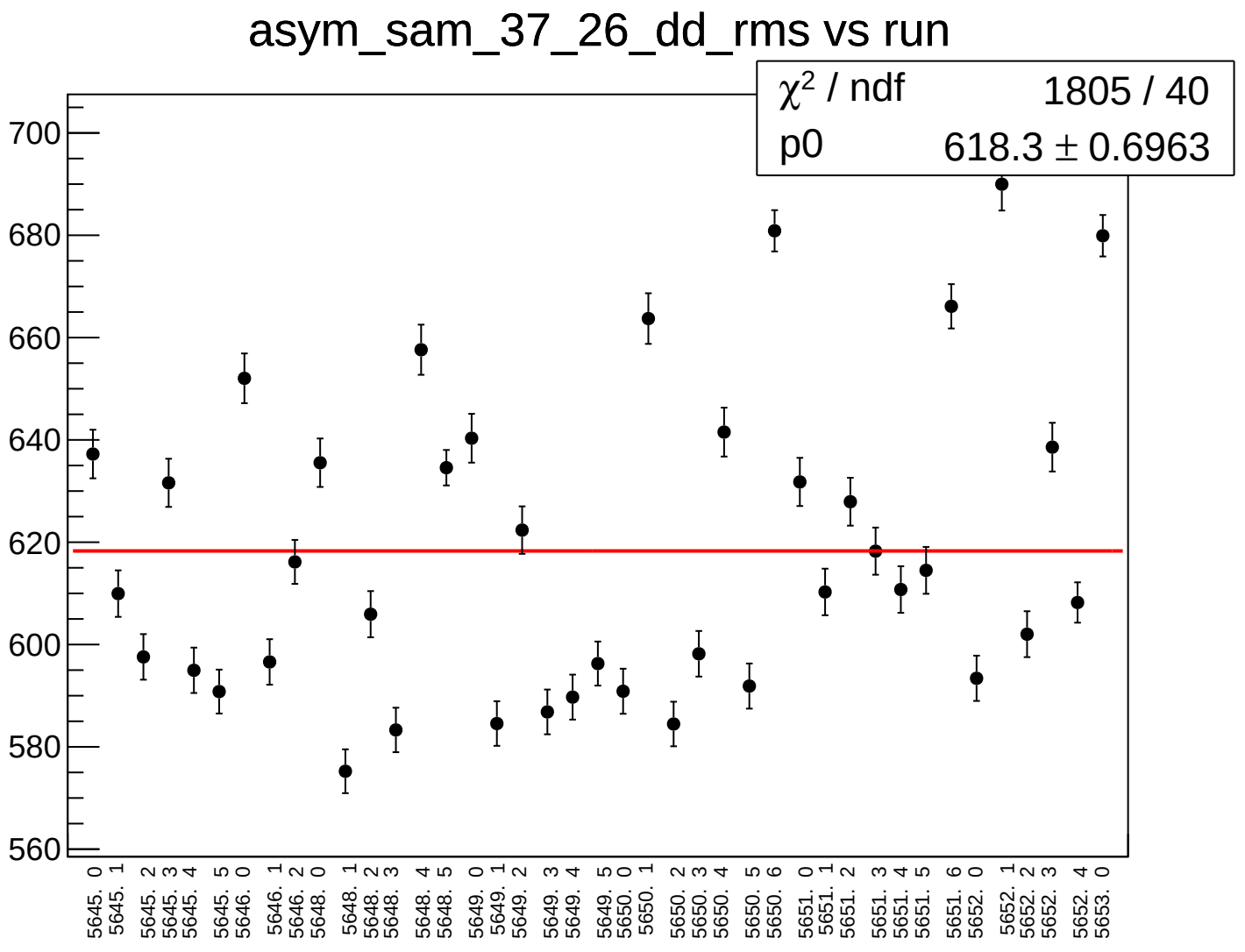

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 21.84 / 40
p0 −516.3 ± 1024
pull
Entries 41
Mean −65.64
Std Dev 0

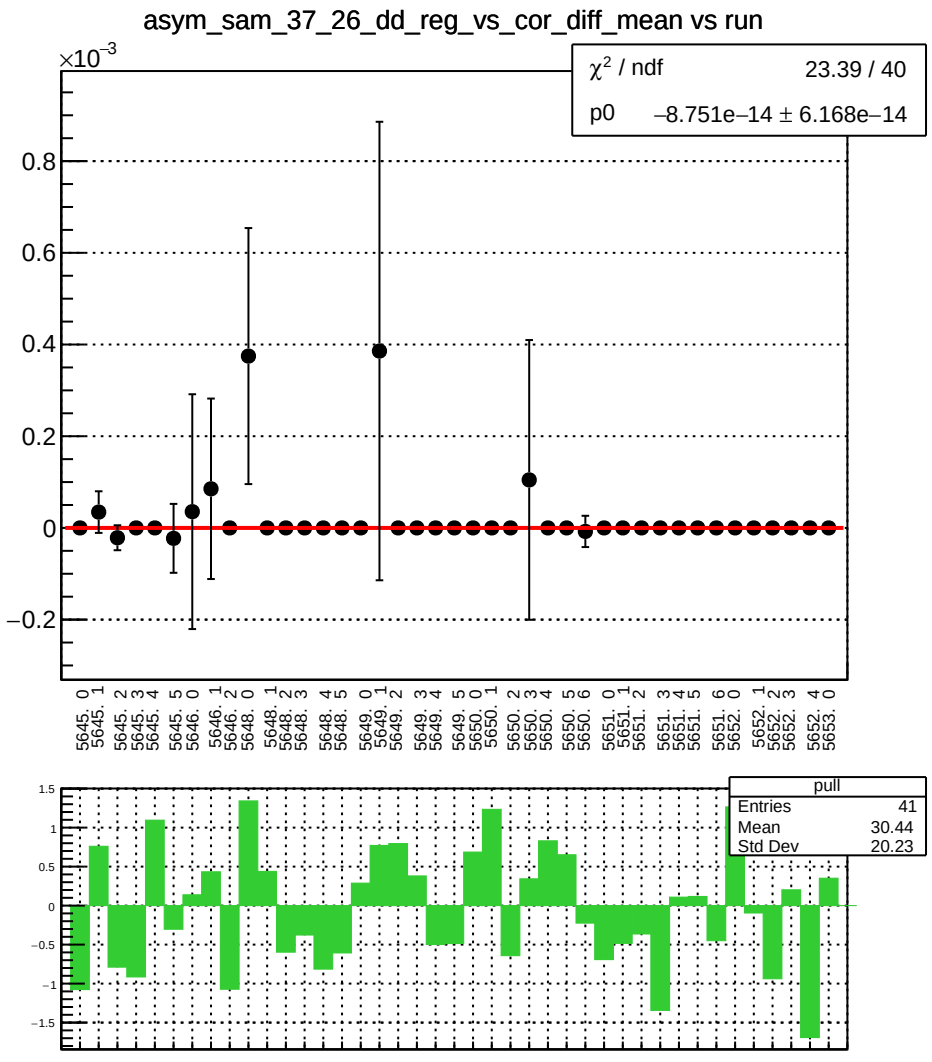

pull1D
Entries 41
Mean 0.01505
Std Dev 0.7297

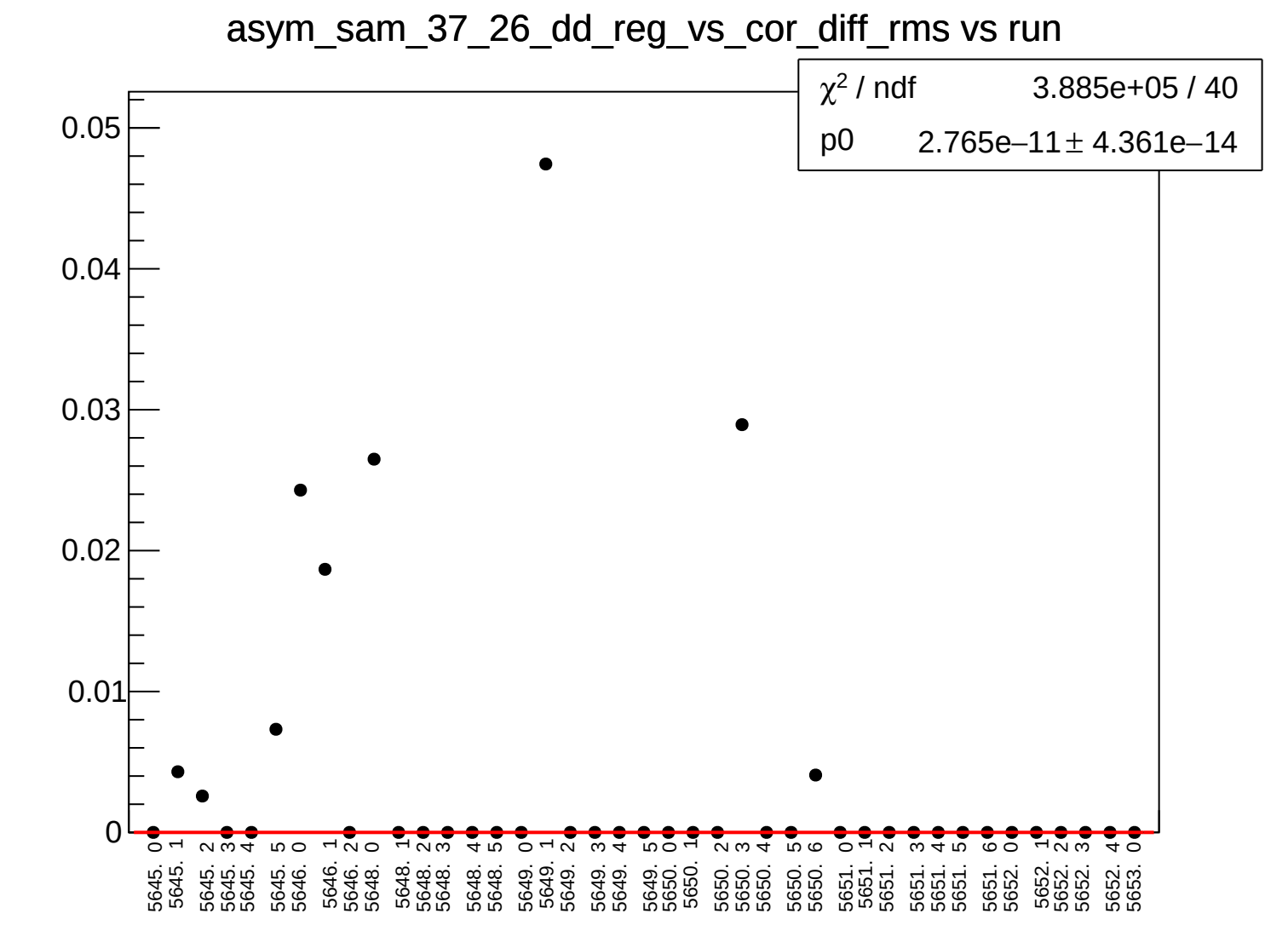

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1484 / 40
p0 642.8 ± 0.7237
720
700
680
660
640
620
600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

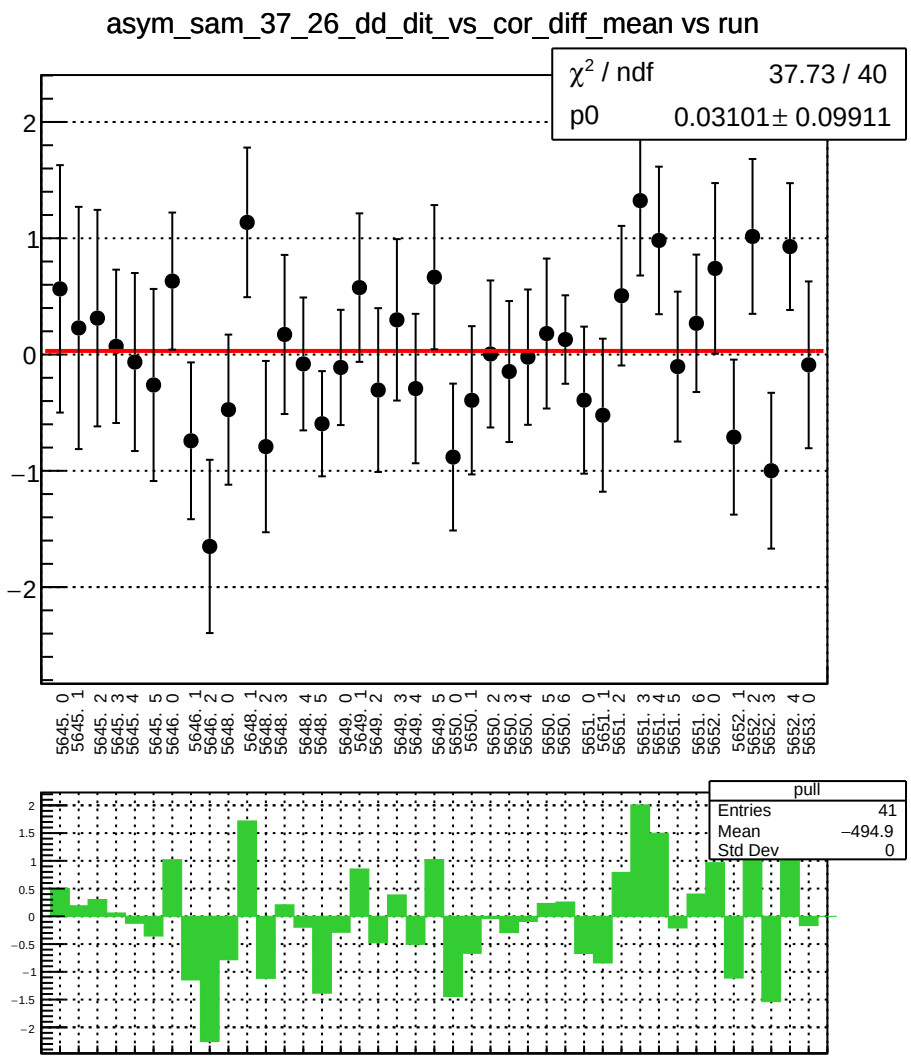

asym_sam_37_26_dd_mean vs run
χ² / ndf 23.99 / 40
p0 289.6 ± 984.7
20000
15000
10000
5000
0
−5000
−10000
−15000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −146.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

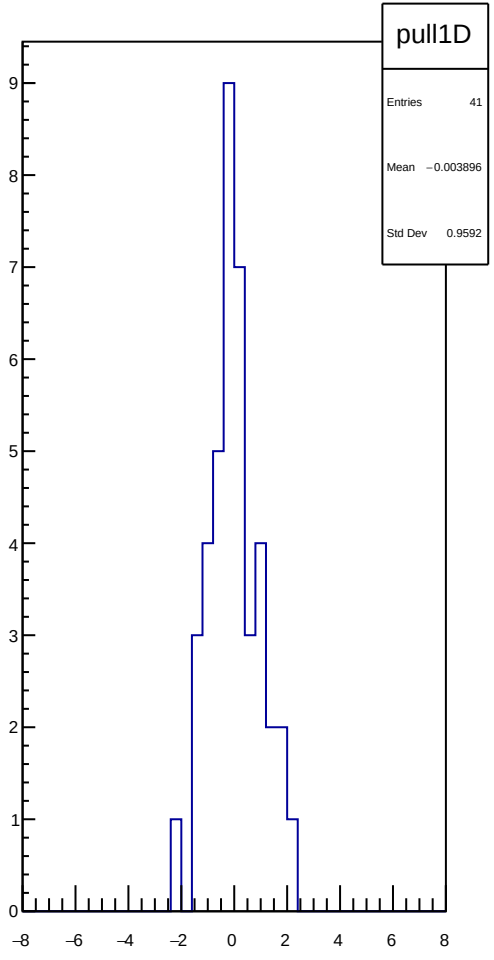

pull1D
Entries 41
Mean −0.01187
Std Dev 0.7648
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

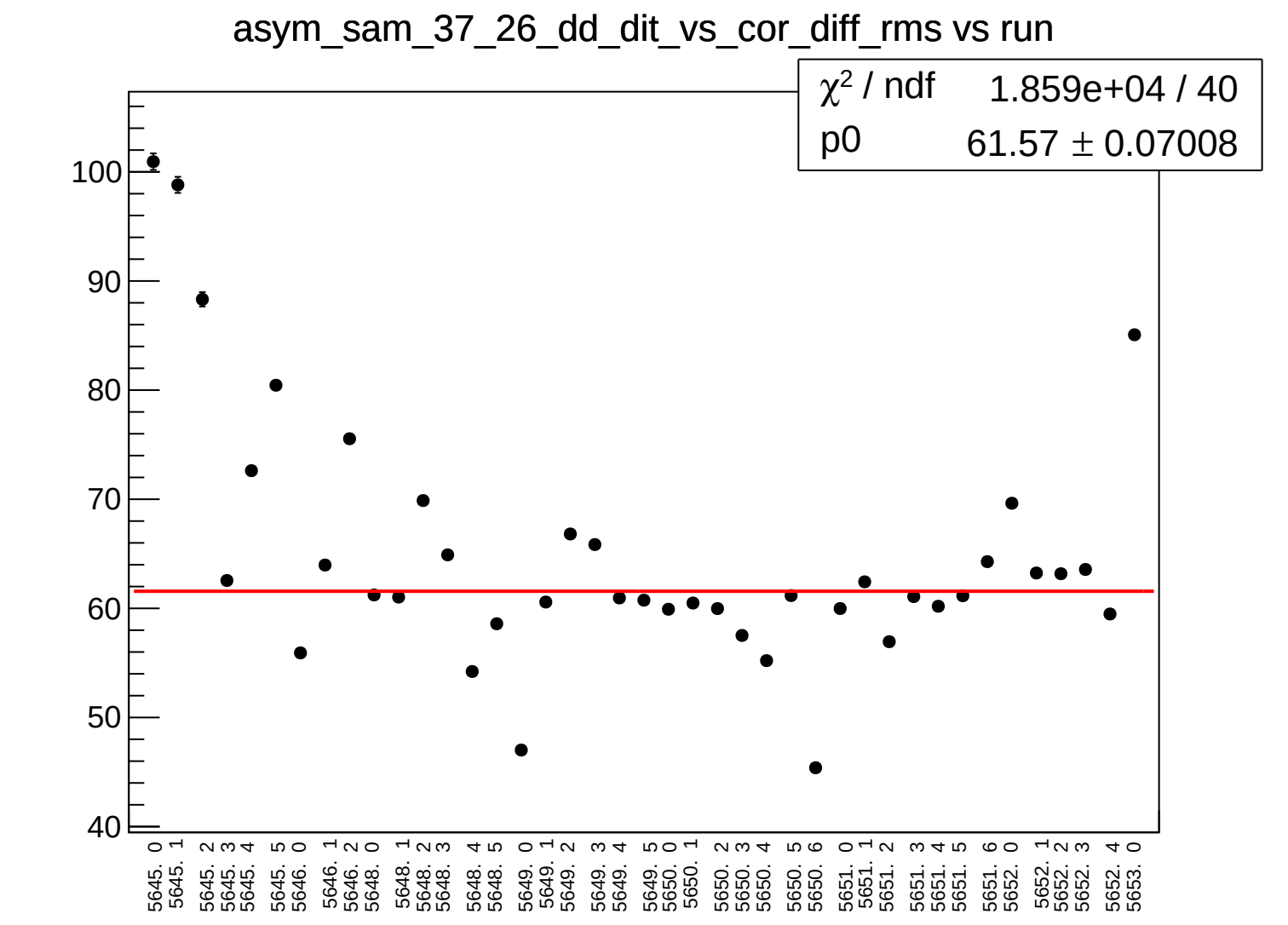

asym_sam_37_26_dd_rms vs run
χ² / ndf 1805 / 40
p0 618.3 ± 0.6963
700
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

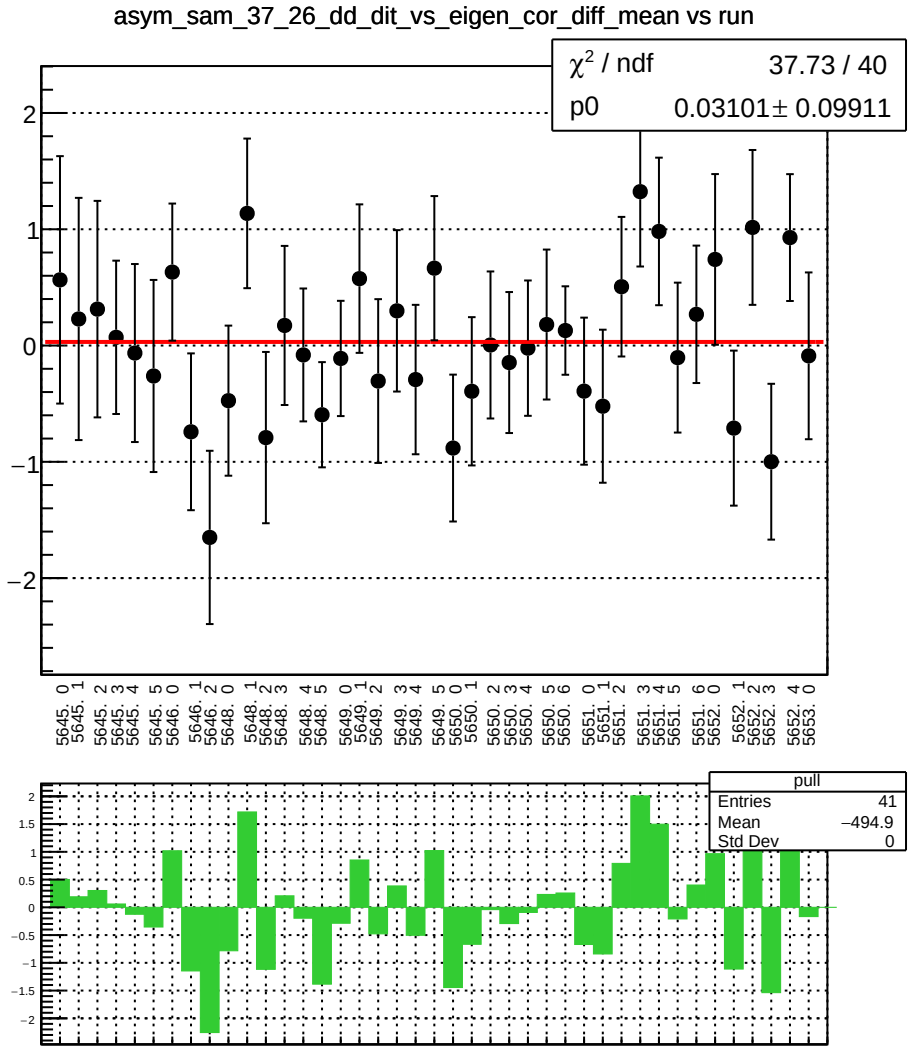

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 23.39 / 40
p0 −8.751e−14 ± 6.168e−14
0.8
0.6
0.4
0.2
0
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.44
Std Dev 20.23
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.05422
Std Dev 0.7534
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

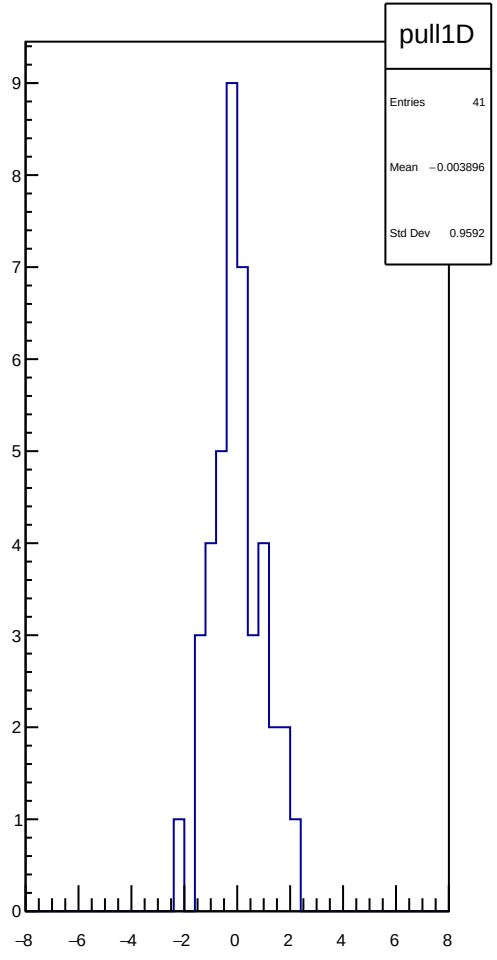

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.885e+05 / 40
p0 2.765e−11 ± 4.361e−14
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

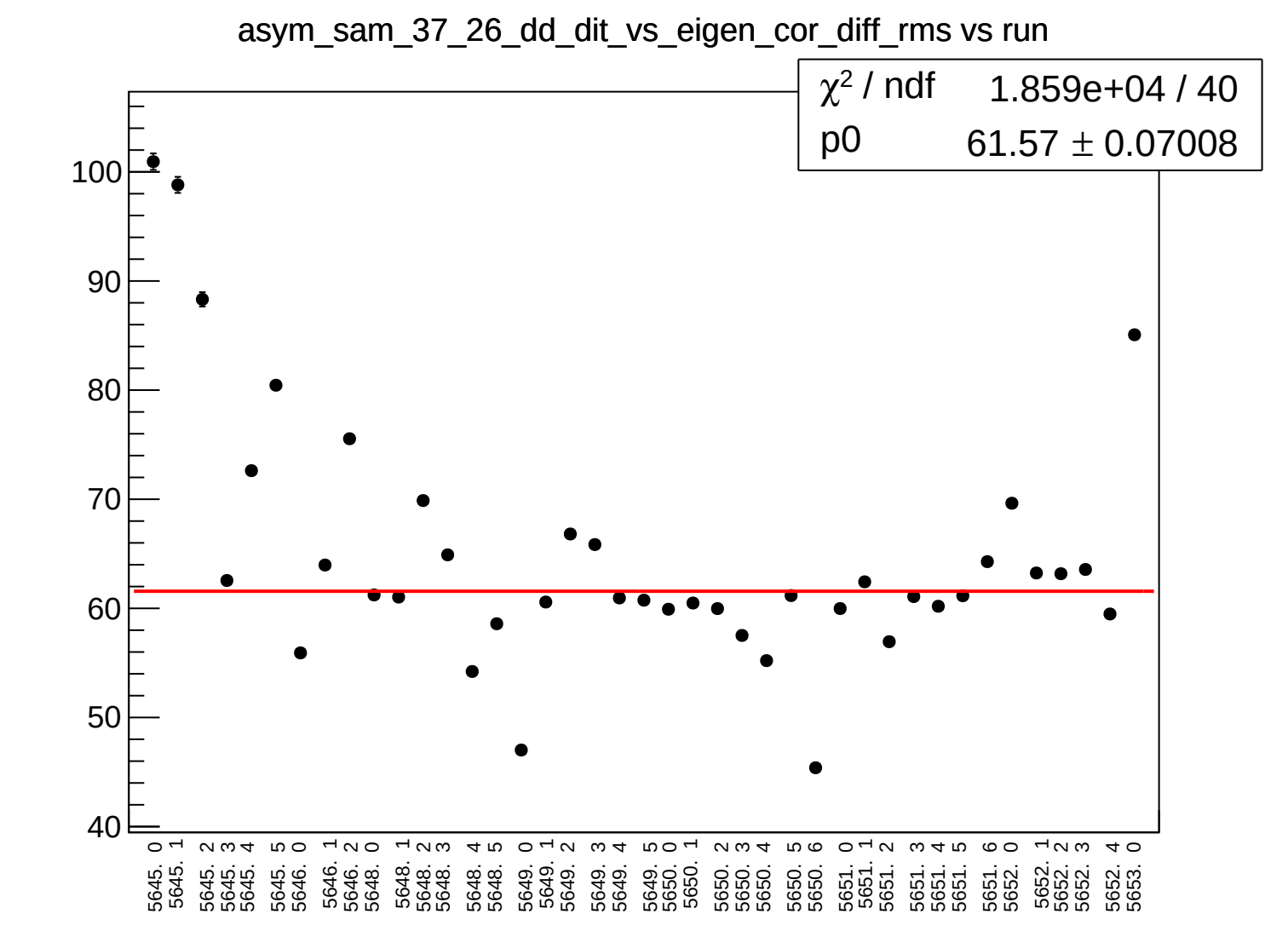

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 37.73 / 40
p0 0.03101± 0.09911
pull
Entries 41
Mean −494.9
Std Dev 0

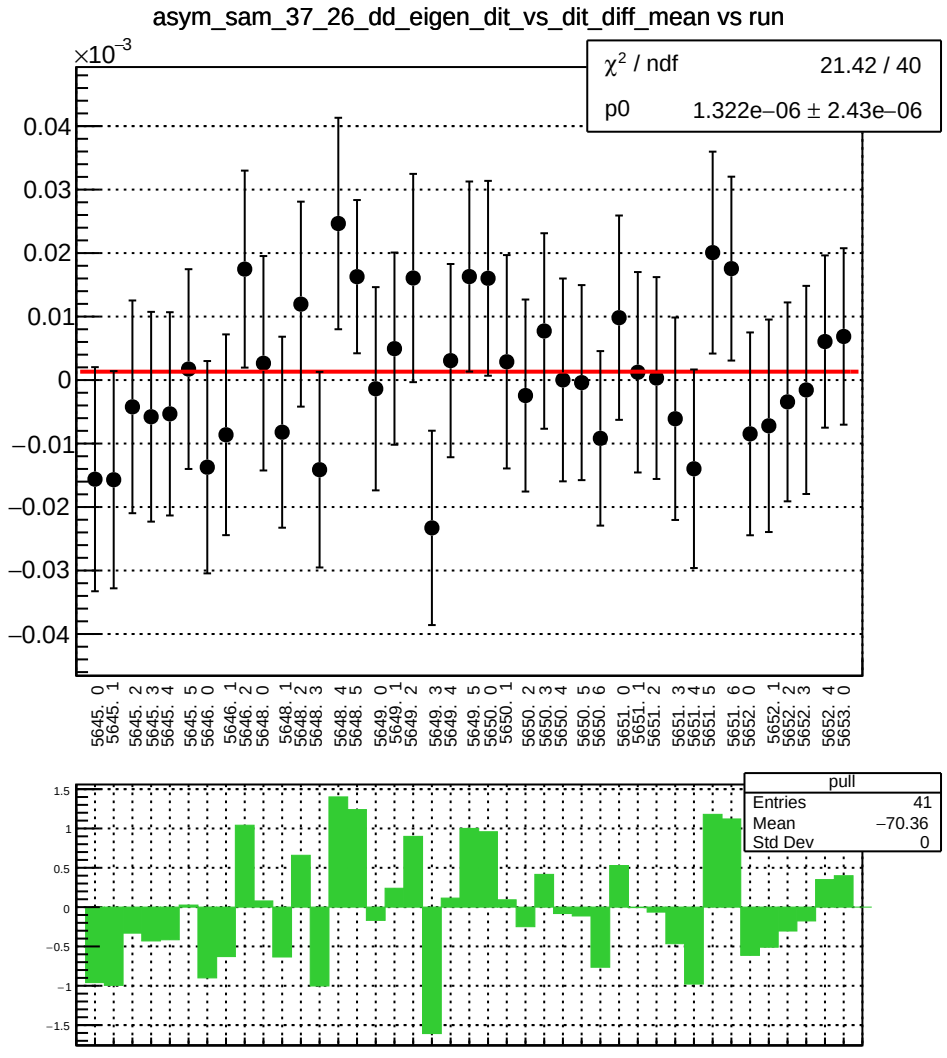

pull1D
Entries 41
Mean −0.003896
Std Dev 0.9592

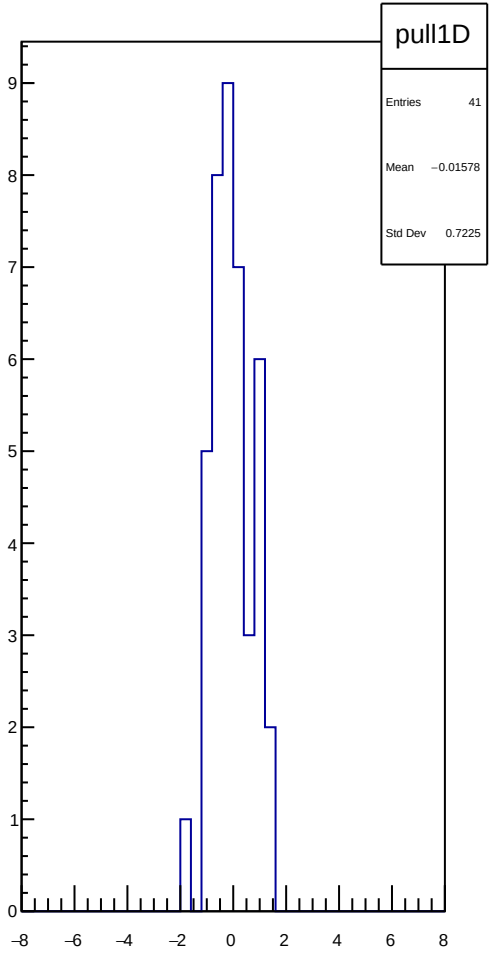

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.859e+04 / 40
p0 61.57 ± 0.07008
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

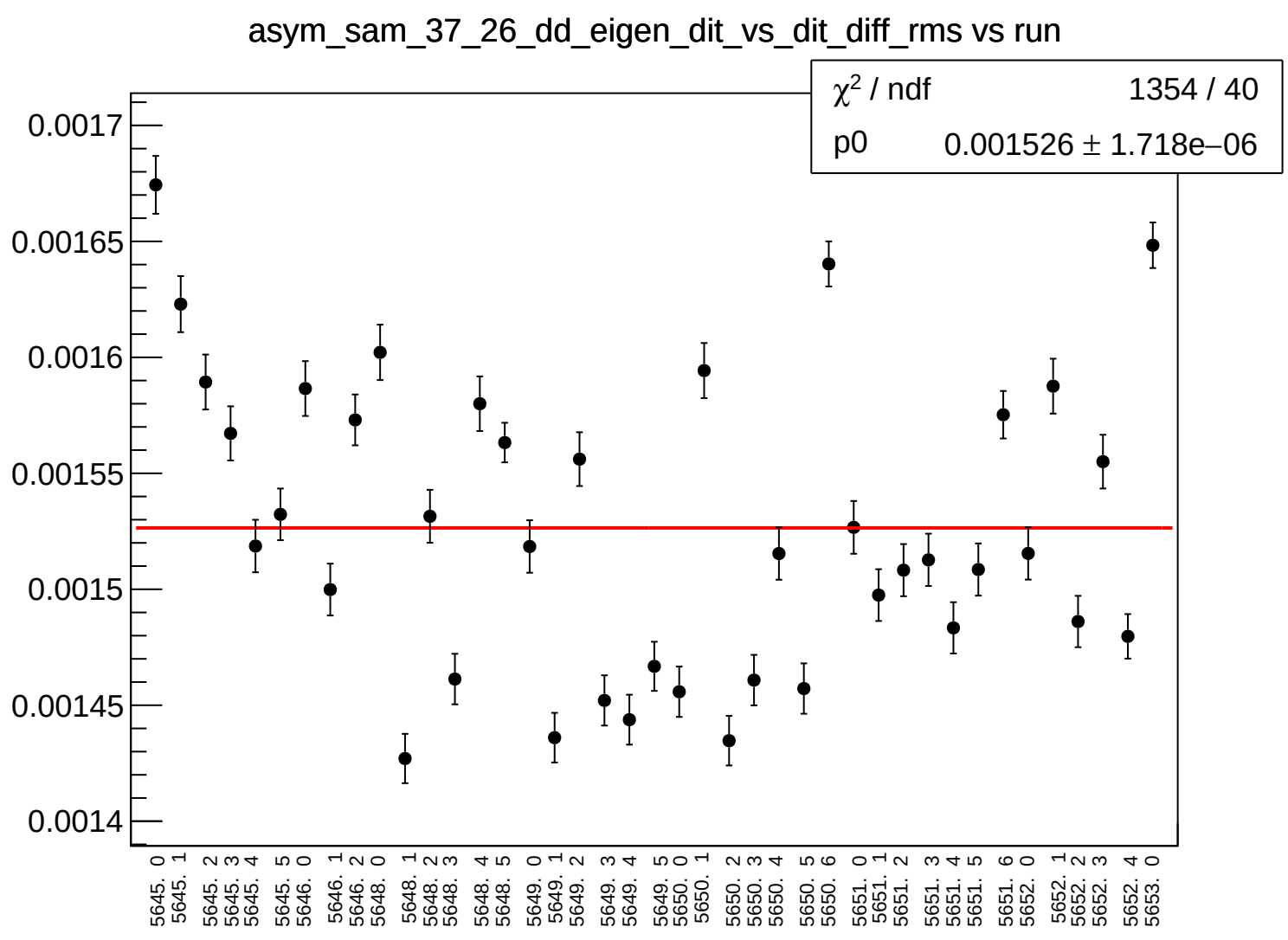

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.73 / 40
p0 0.03101± 0.09911
pull
Entries 41
Mean −494.9
Std Dev 0

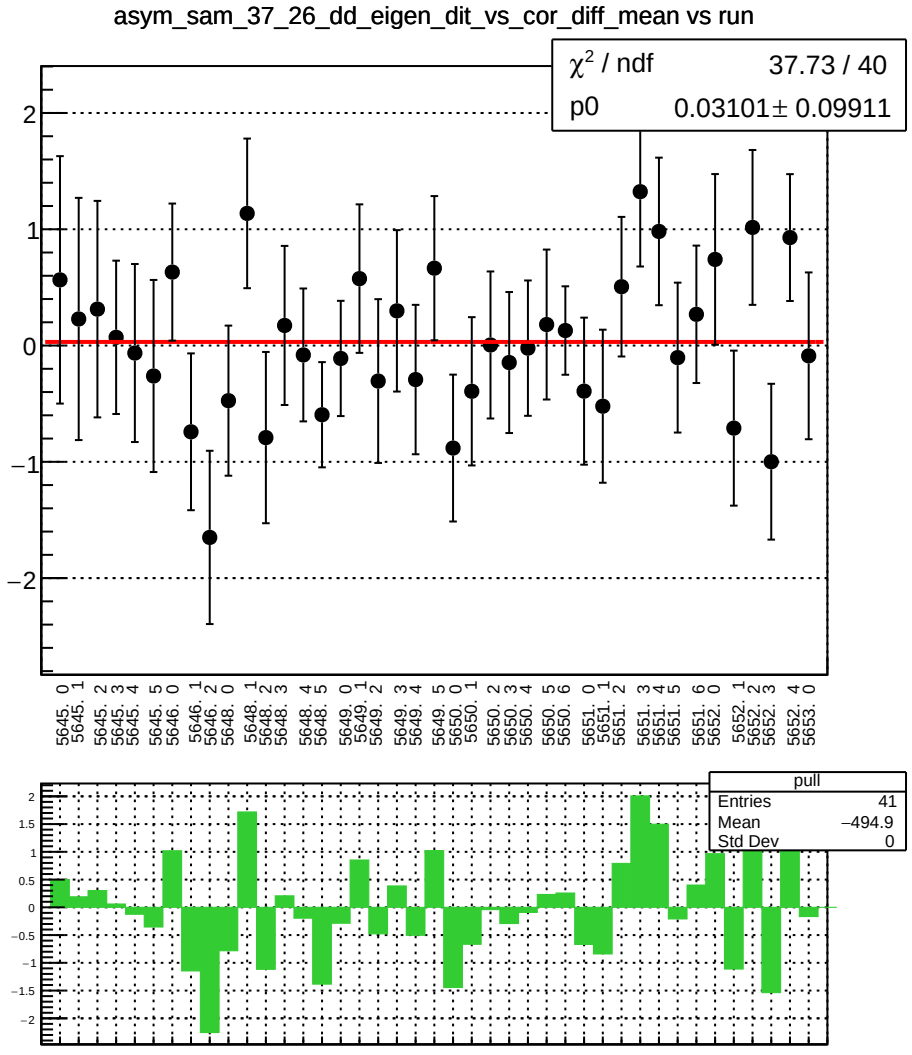

pull1D
Entries 41
Mean −0.003896
Std Dev 0.9592

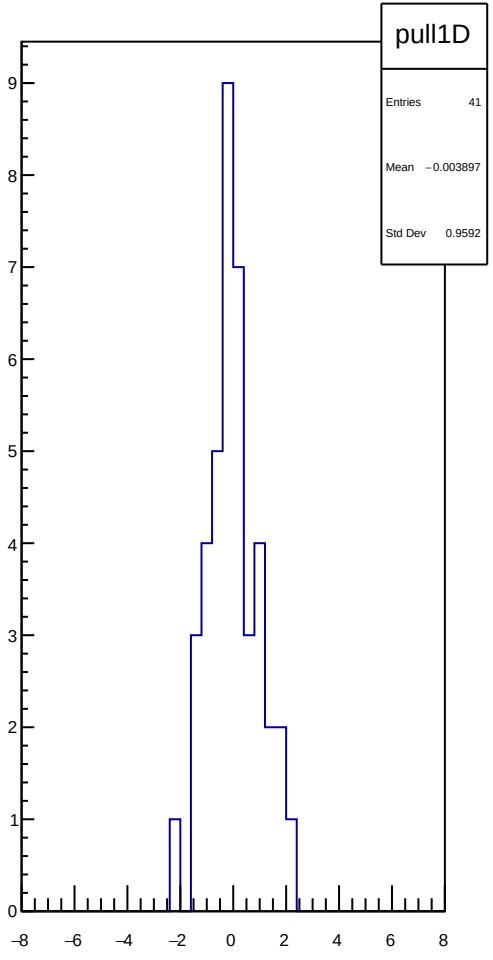

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.859e+04 / 40
p0 61.57 ± 0.07008
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

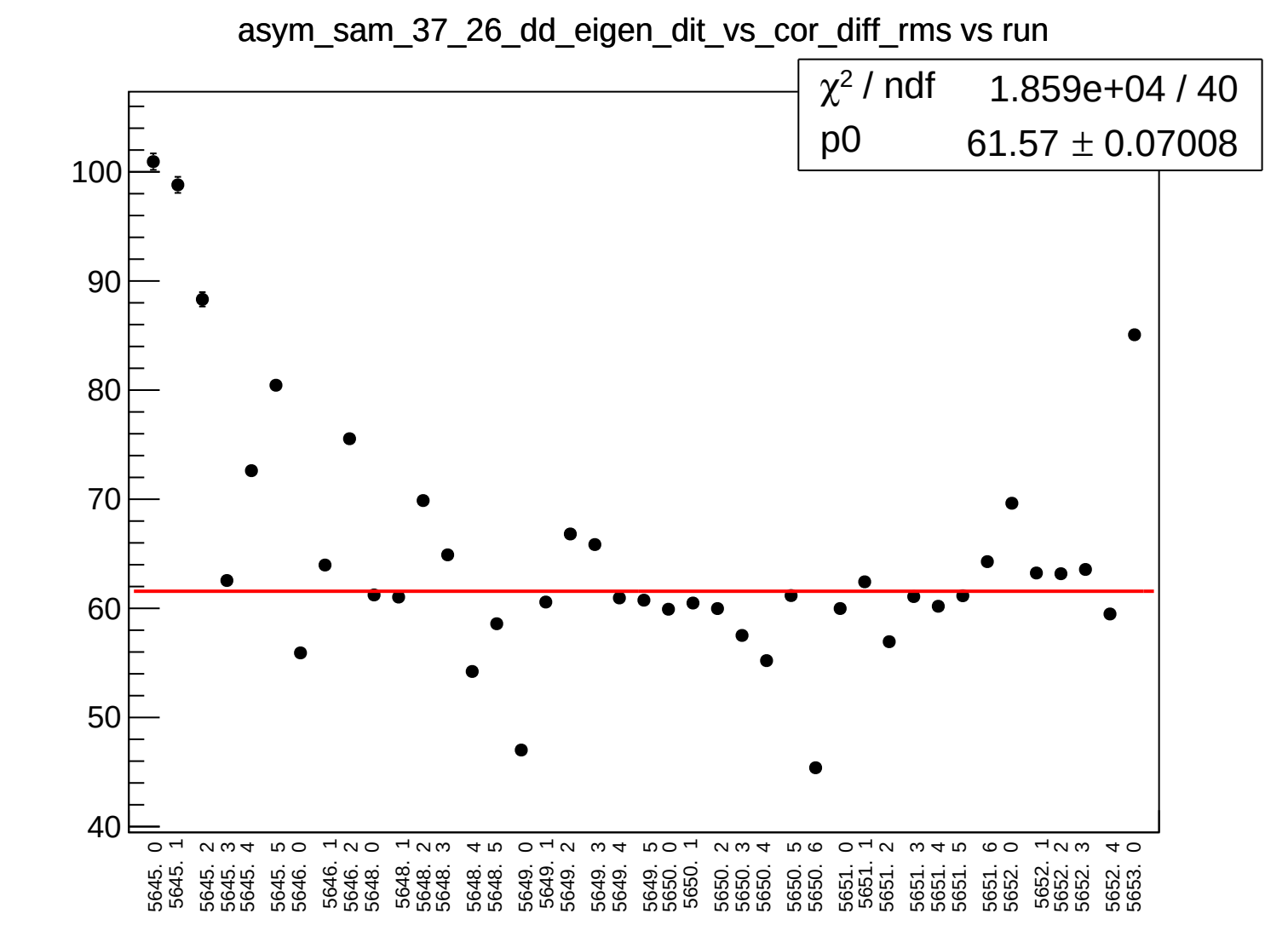

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 21.42 / 40
p0 1.322e−06 ± 2.43e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −70.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

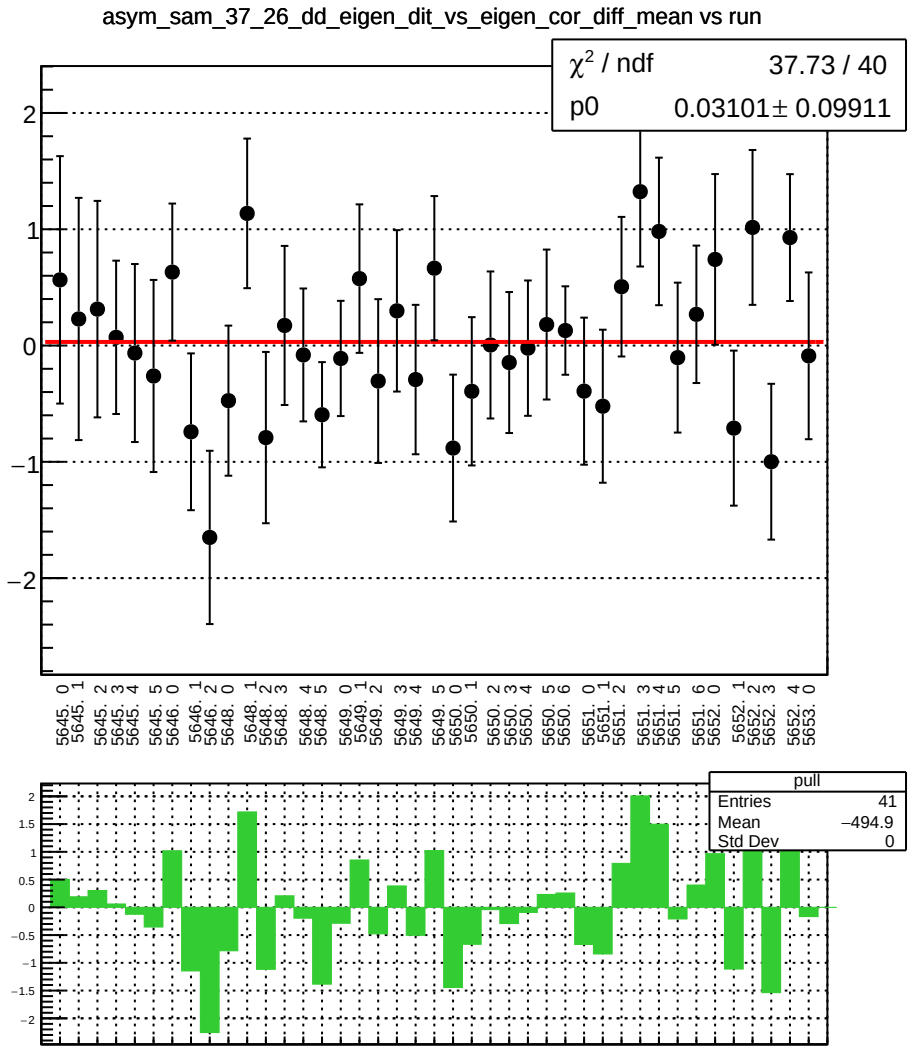

pull1D
Entries 41
Mean −0.01578
Std Dev 0.7225
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

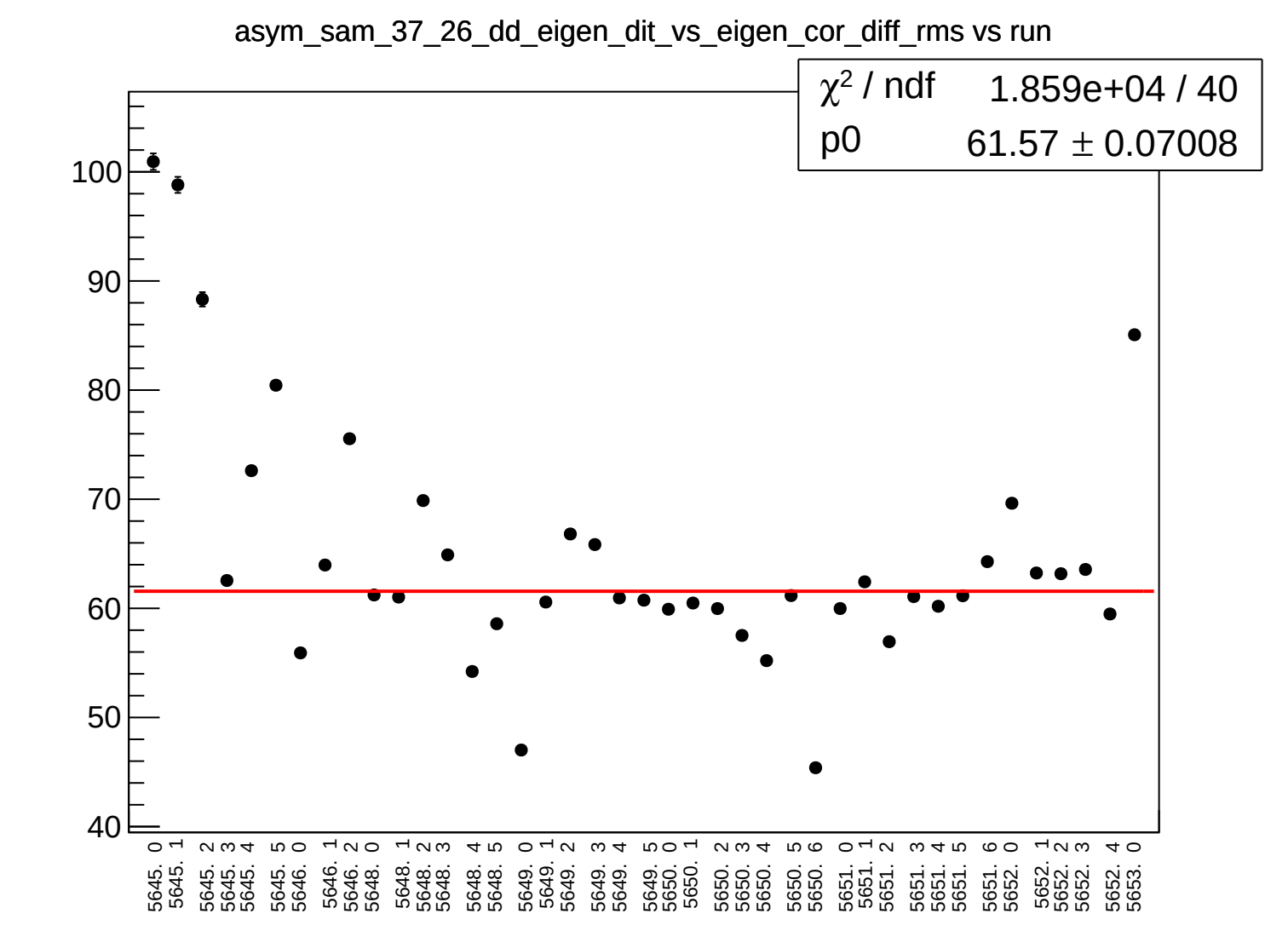

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1354 / 40
p0 0.001526 ± 1.718e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

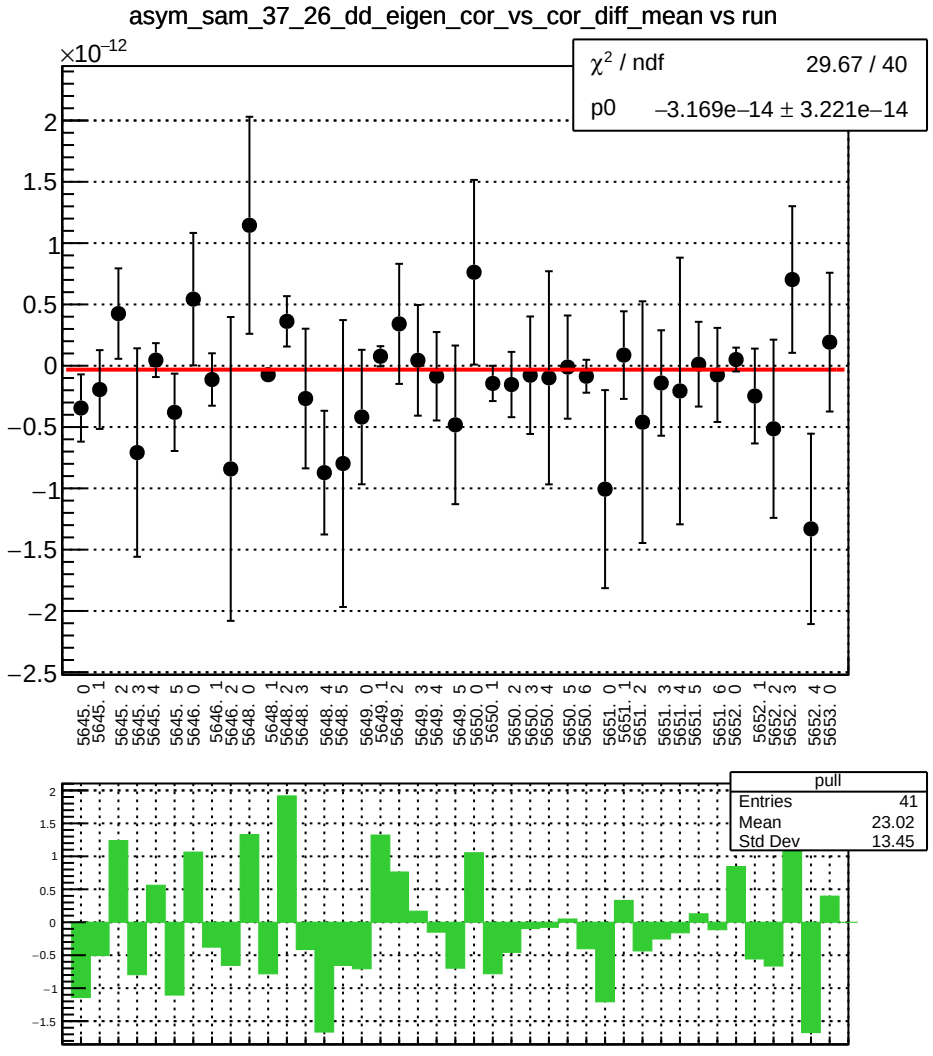

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.73 / 40
p0 0.03101± 0.09911
pull
Entries 41
Mean −494.9
Std Dev 0

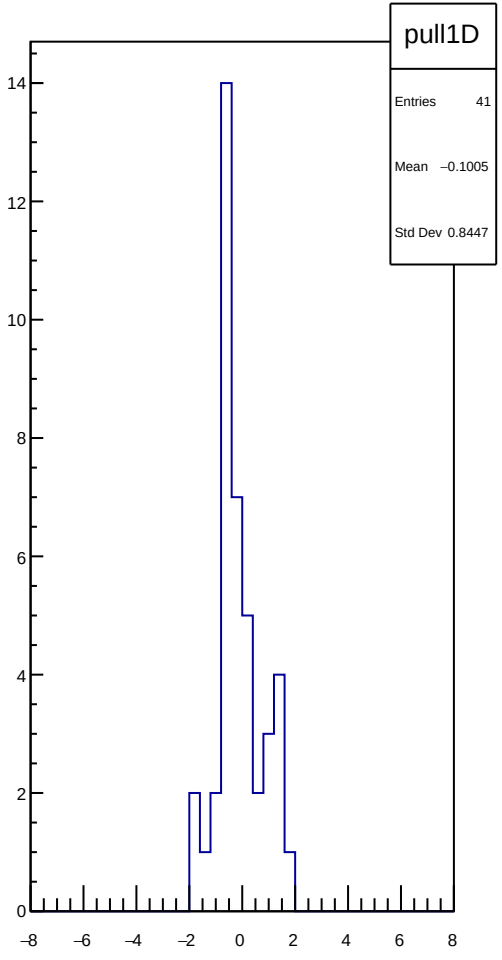

pull1D
Entries 41
Mean −0.003897
Std Dev 0.9592

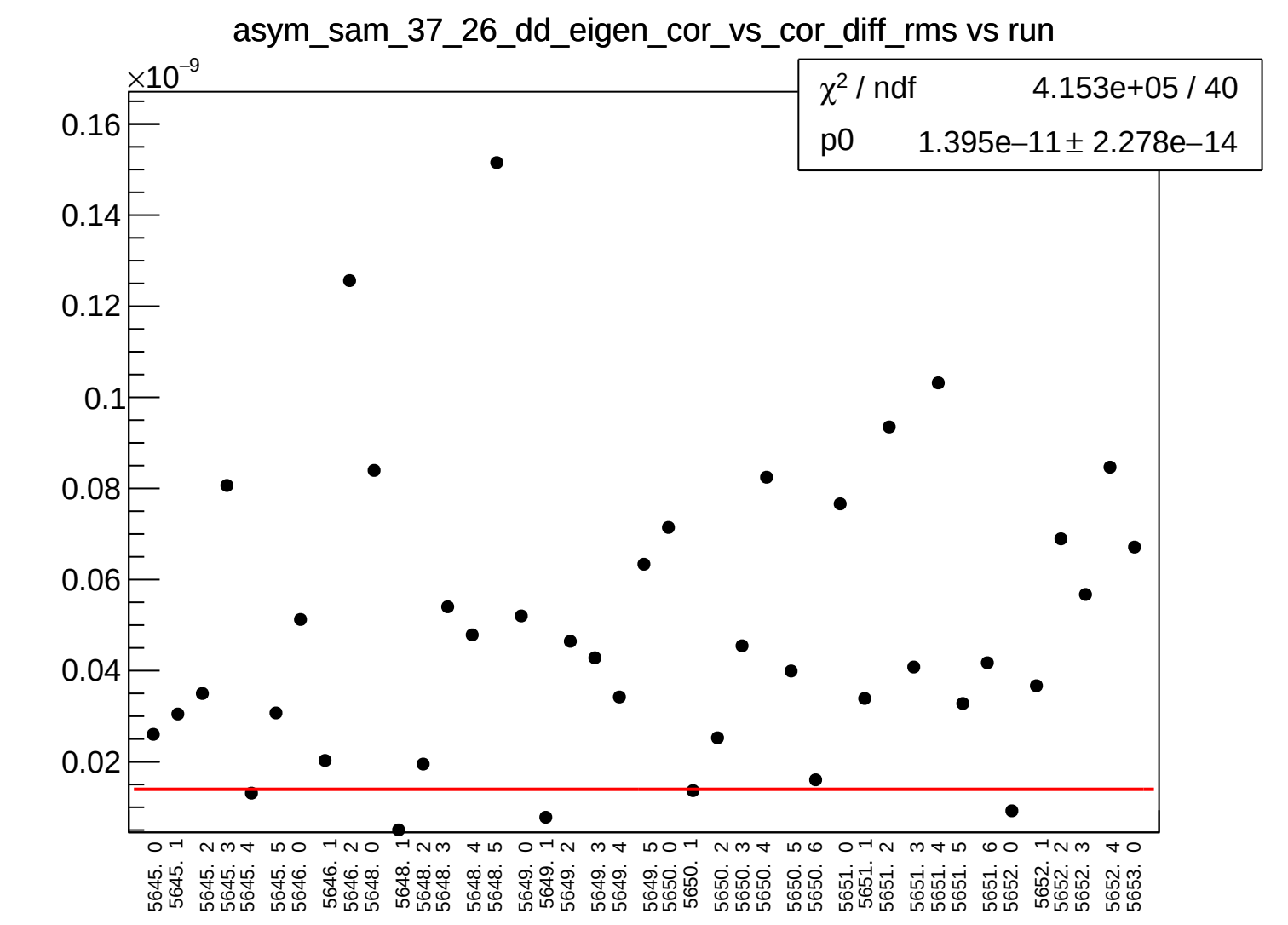

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.859e+04 / 40
p0 61.57 ± 0.07008
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

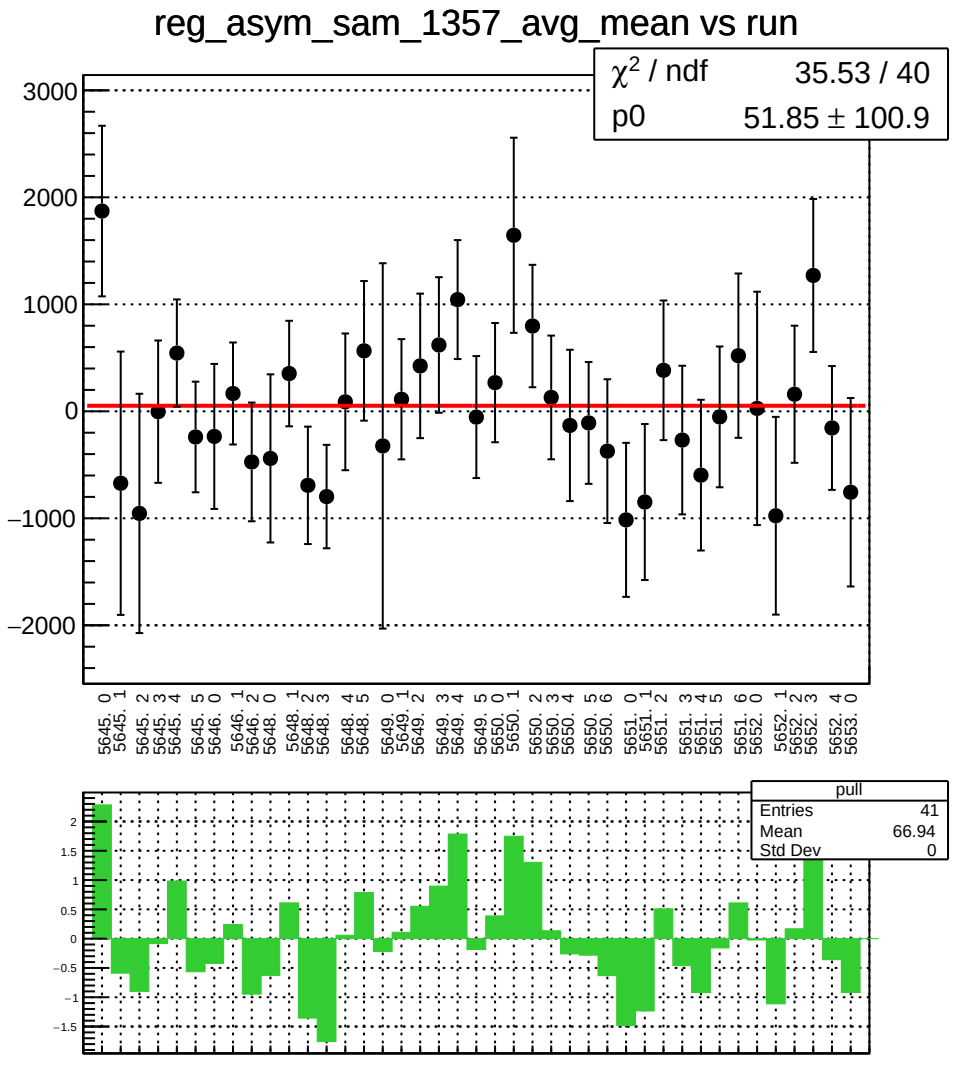

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.73 / 40
p0 0.03101± 0.09911
pull
Entries 41
Mean −494.9
Std Dev 0
pull1D
Entries 41
Mean −0.003897
Std Dev 0.9592

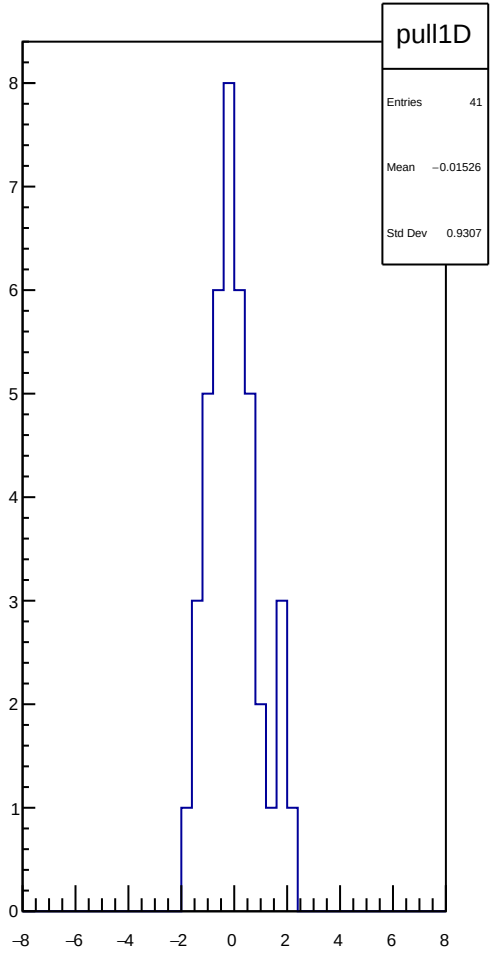

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.859e+04 / 40
p0 61.57 ± 0.07008
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

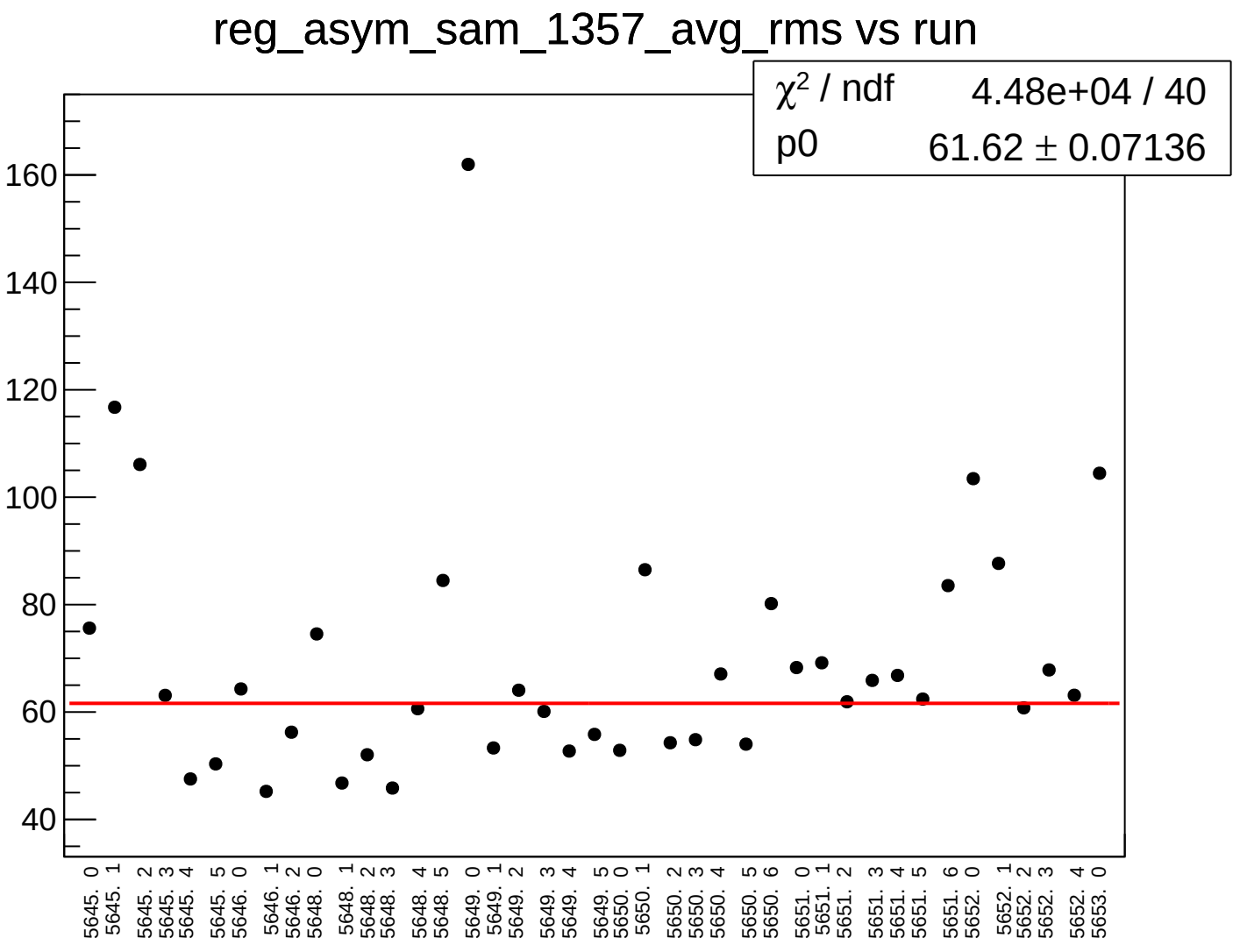

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 29.67 / 40
p0 −3.169e−14 ± 3.221e−14
pull
Entries 41
Mean 23.02
Std Dev 13.45

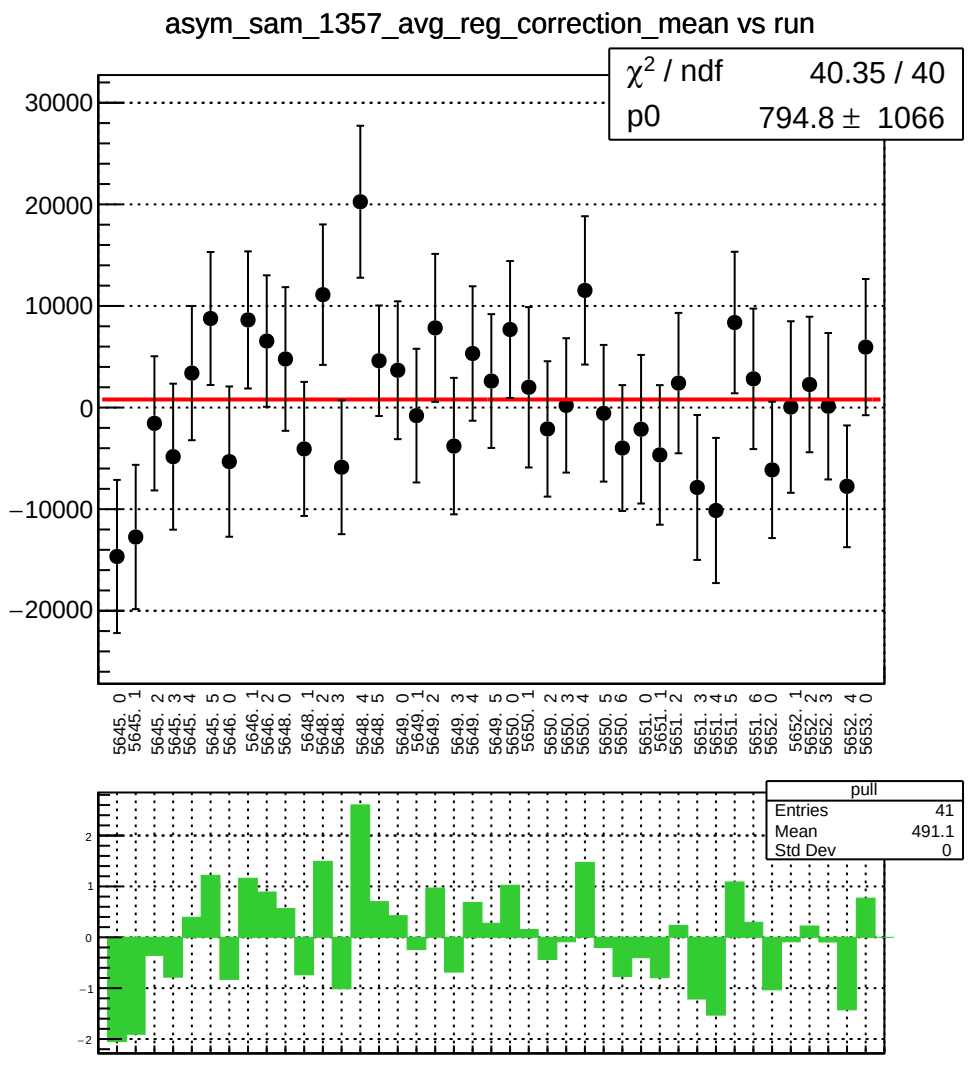

pull1D
Entries 41
Mean −0.1005
Std Dev 0.8447

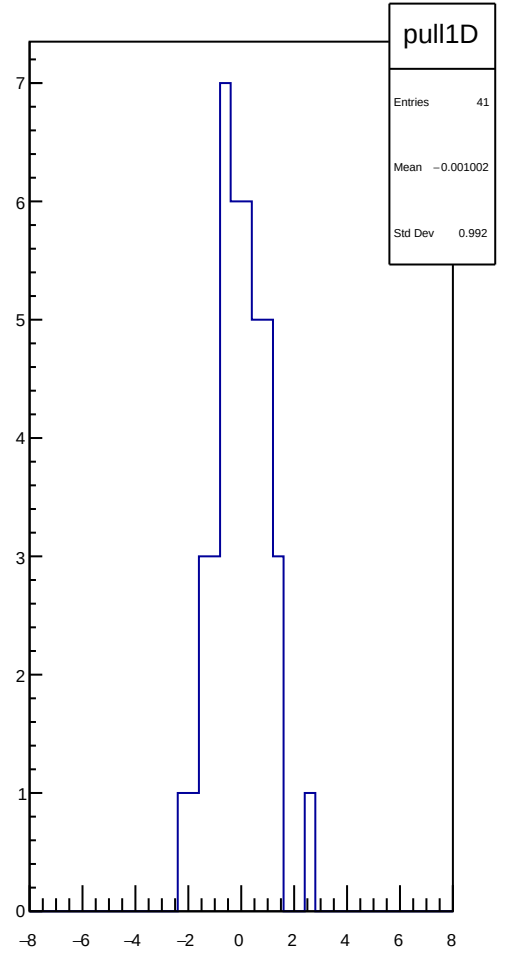

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.153e+05 / 40
p0 1.395e−11 ± 2.278e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

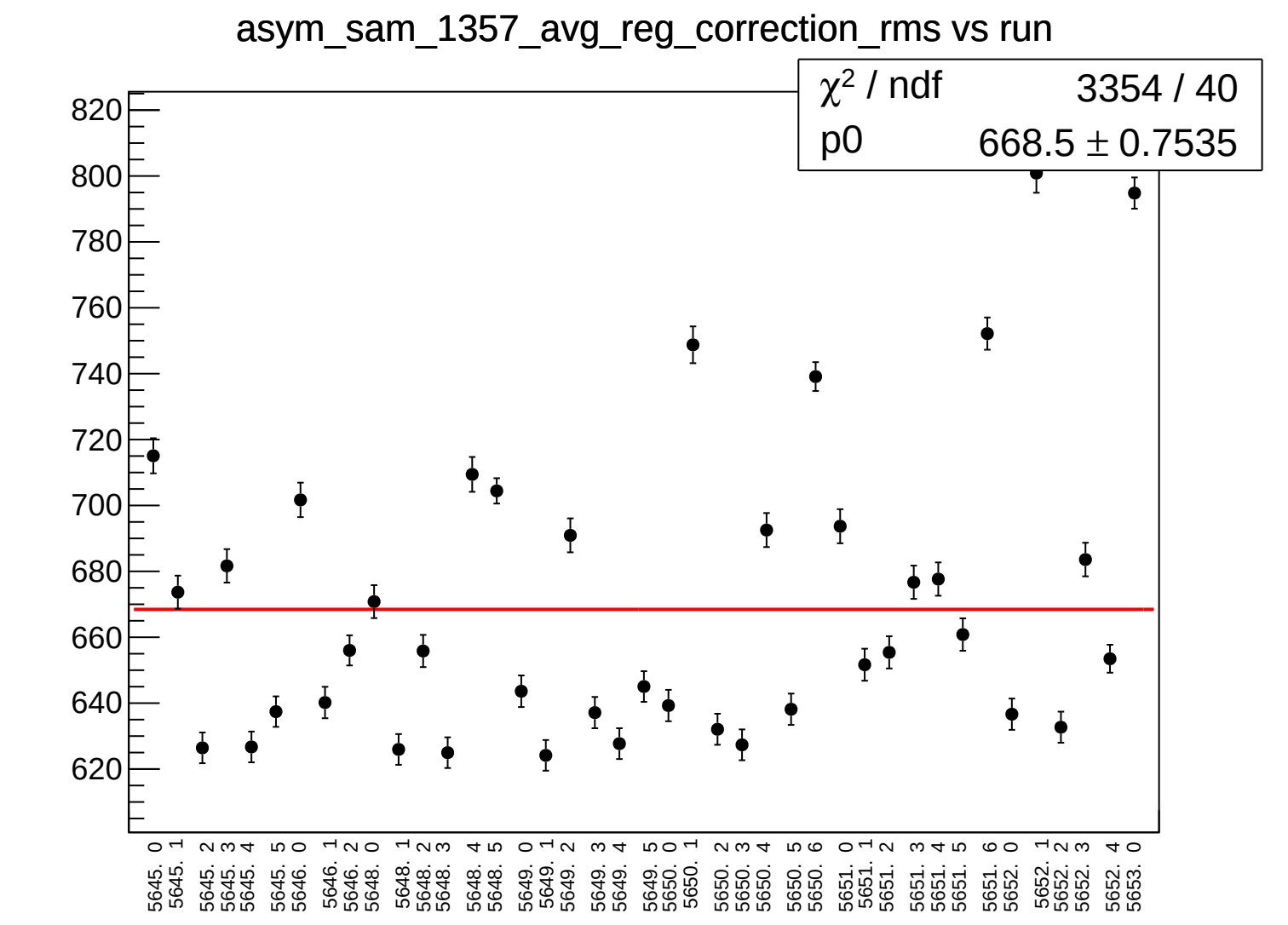

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 35.53 / 40
p0 51.85 ± 100.9
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 66.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

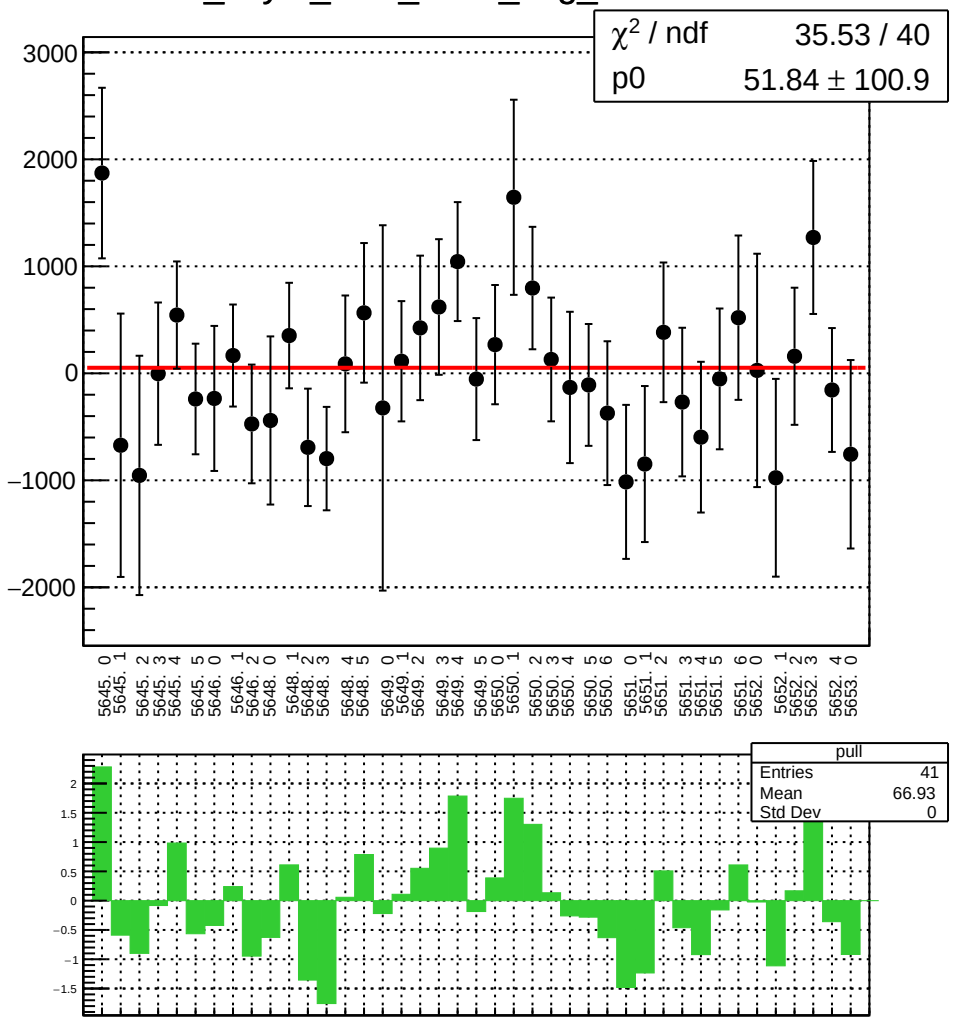

pull1D
Entries 41
Mean −0.01526
Std Dev 0.9307
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

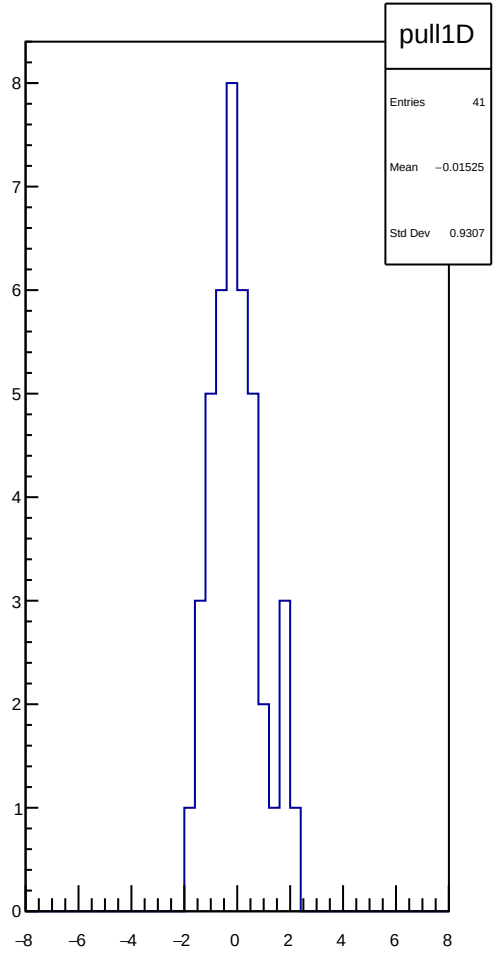

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4.48e+04 / 40
p0 61.62 ± 0.07136
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

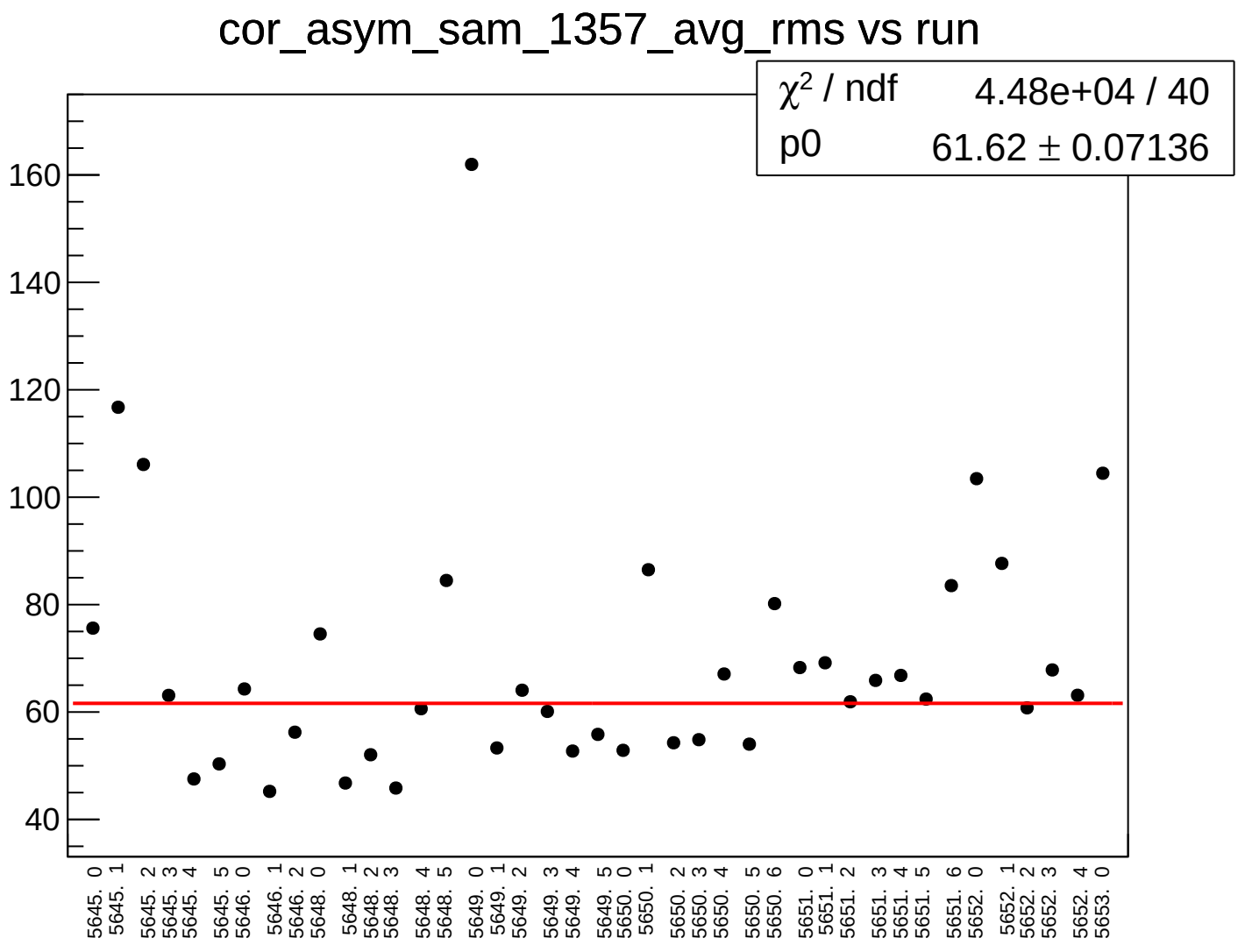

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 40.35 / 40
p0 794.8 ± 1066
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 491.1
Std Dev 0
2
1
0
−1
−2

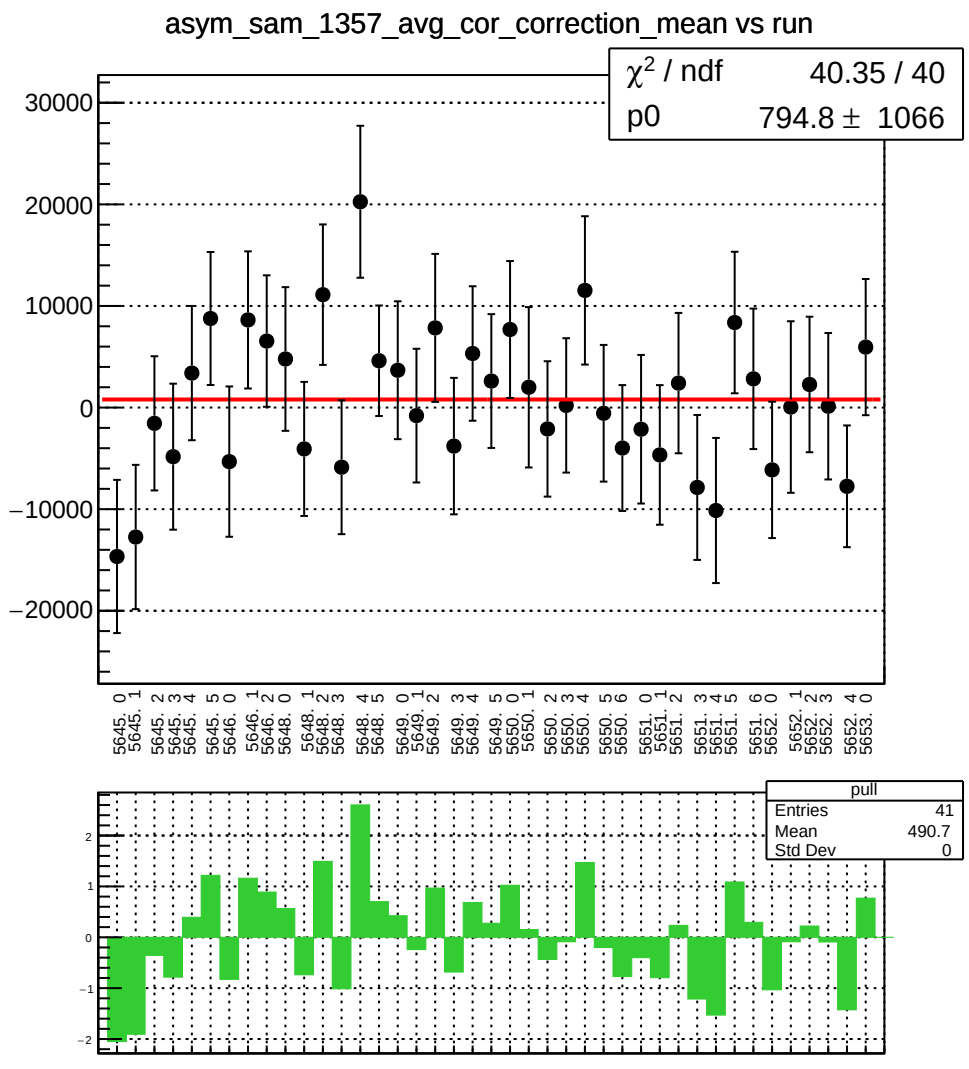

pull1D
Entries 41
Mean −0.001002
Std Dev 0.992
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

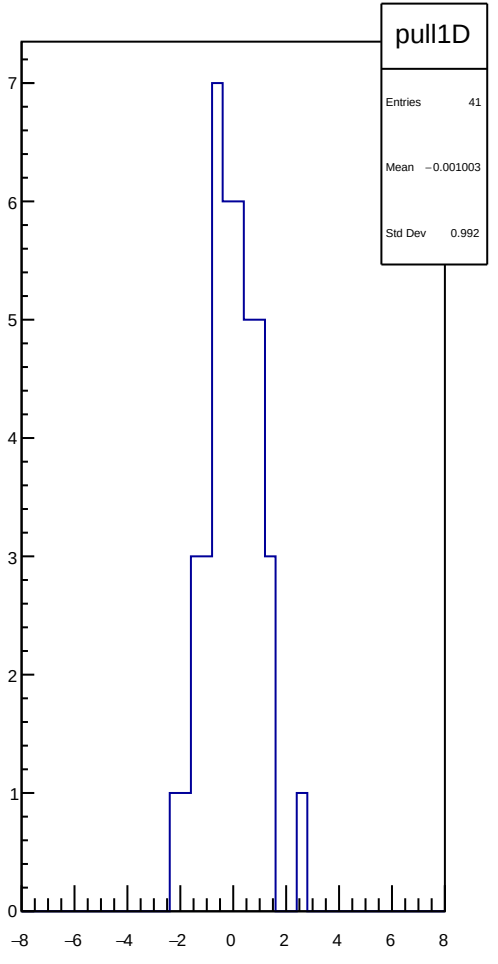

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3354 / 40
p0 668.5 ± 0.7535
820
800
780
760
740
720
700
680
660
640
620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

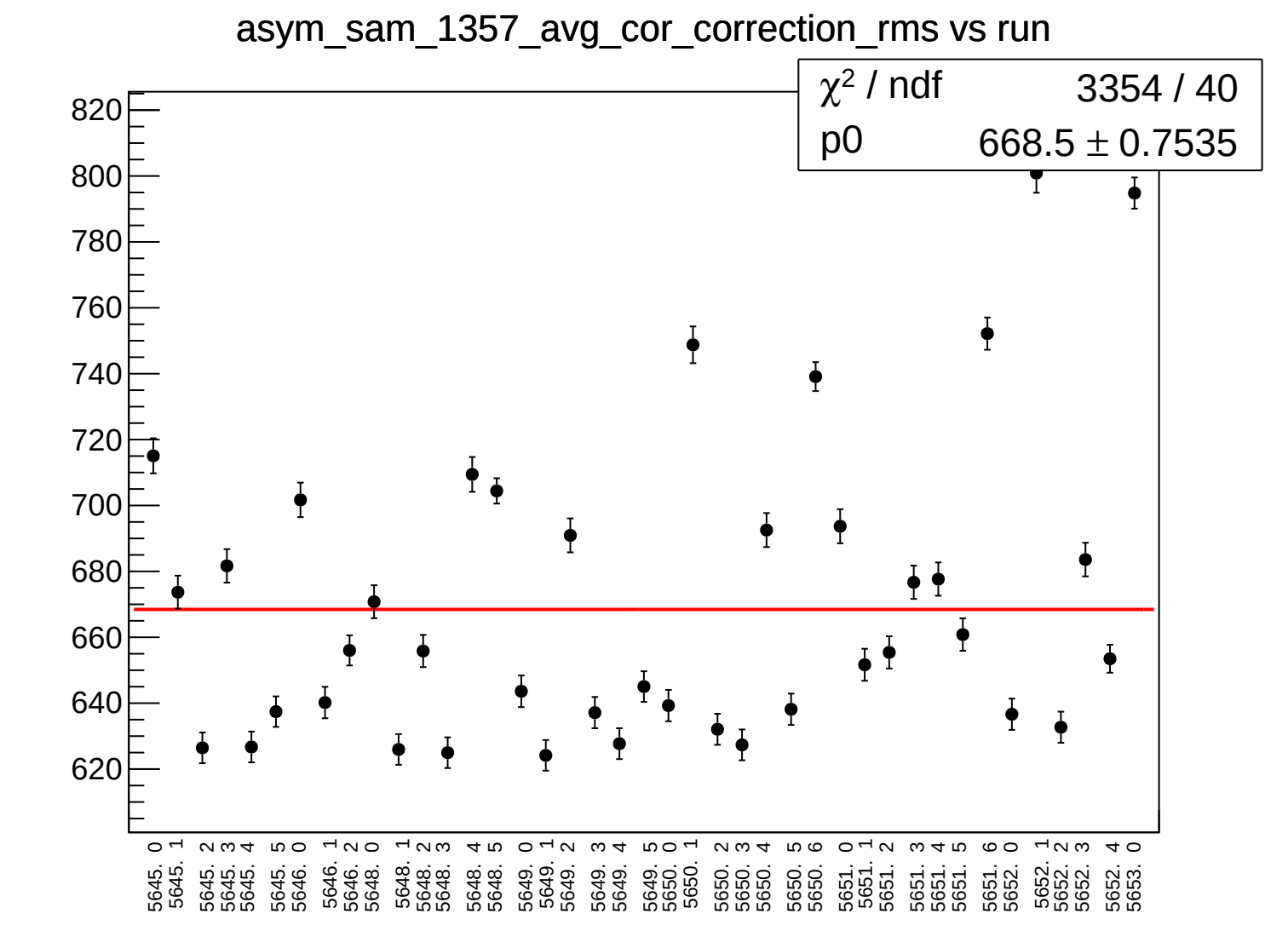

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 35.53 / 40
p0 51.84 ± 100.9
pull
Entries 41
Mean 66.93
Std Dev 0

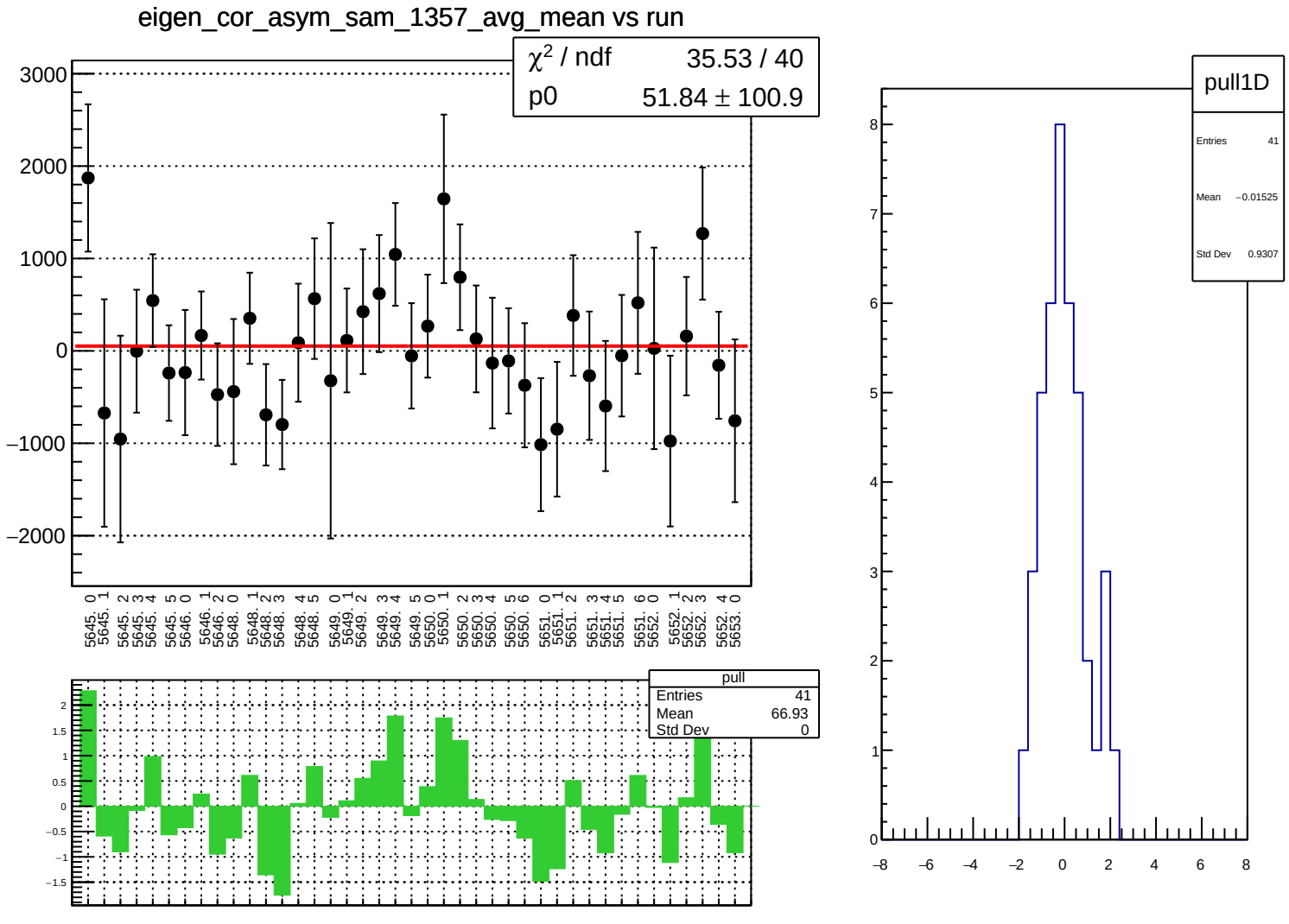

pull1D
Entries 41
Mean −0.01525
Std Dev 0.9307

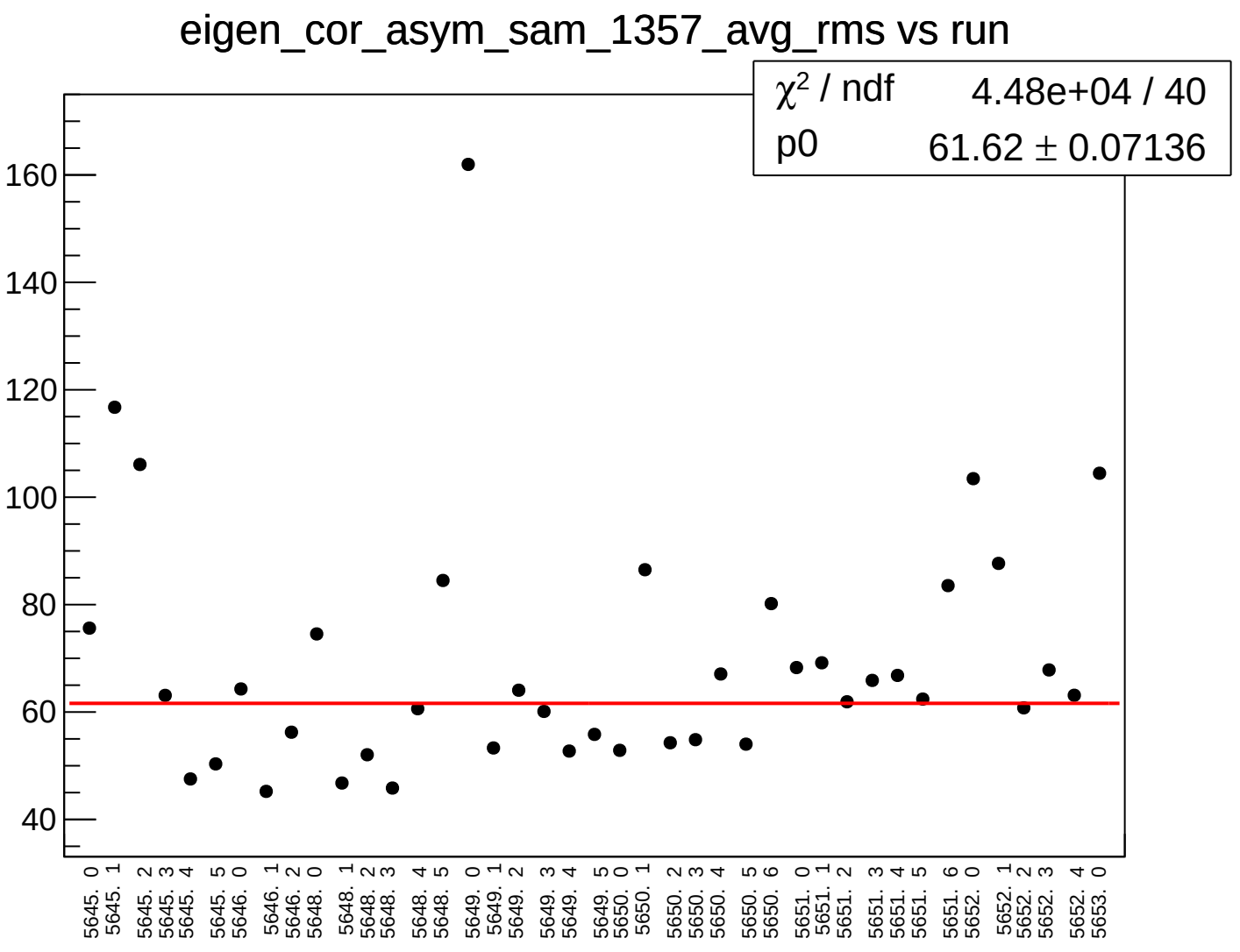

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4.48e+04 / 40
p0 61.62 ± 0.07136
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

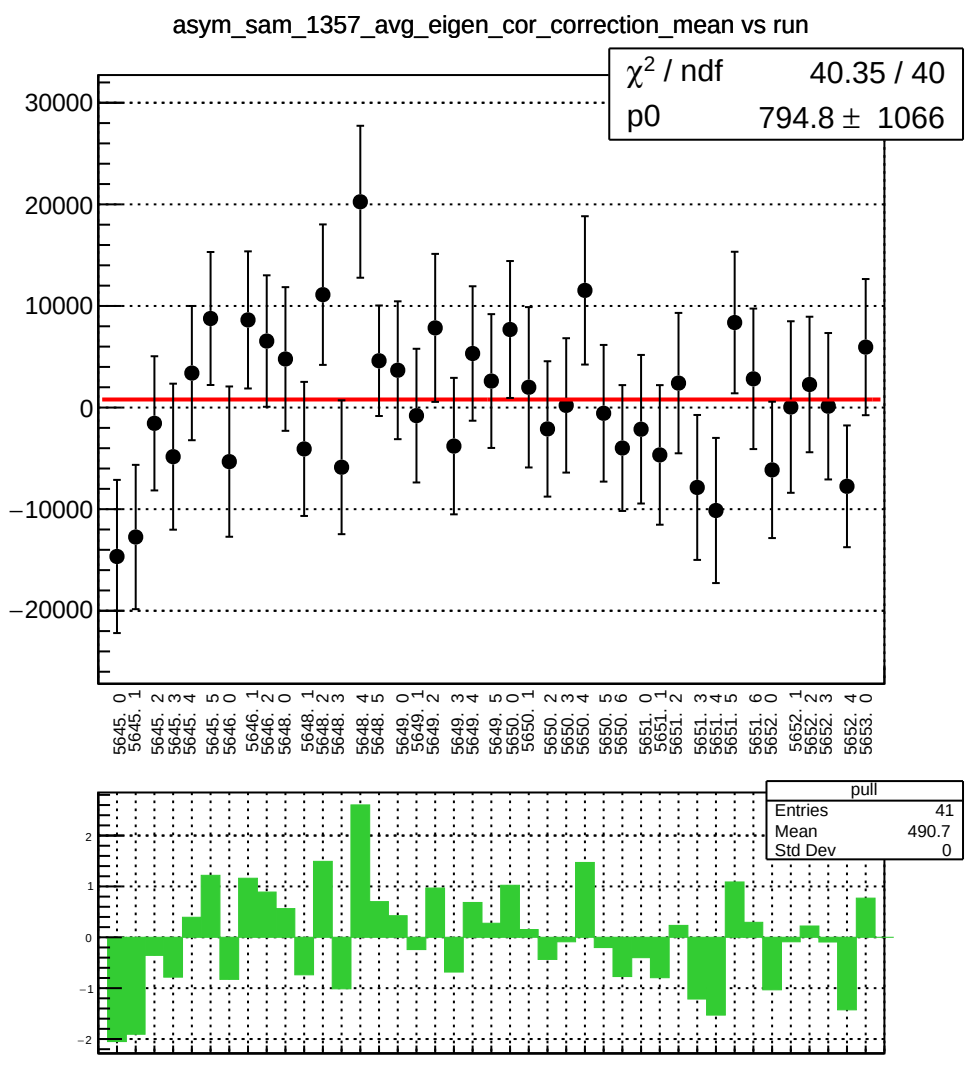

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 40.35 / 40
p0 794.8 ± 1066
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 490.7
Std Dev 0
2
1
0
−1
−2

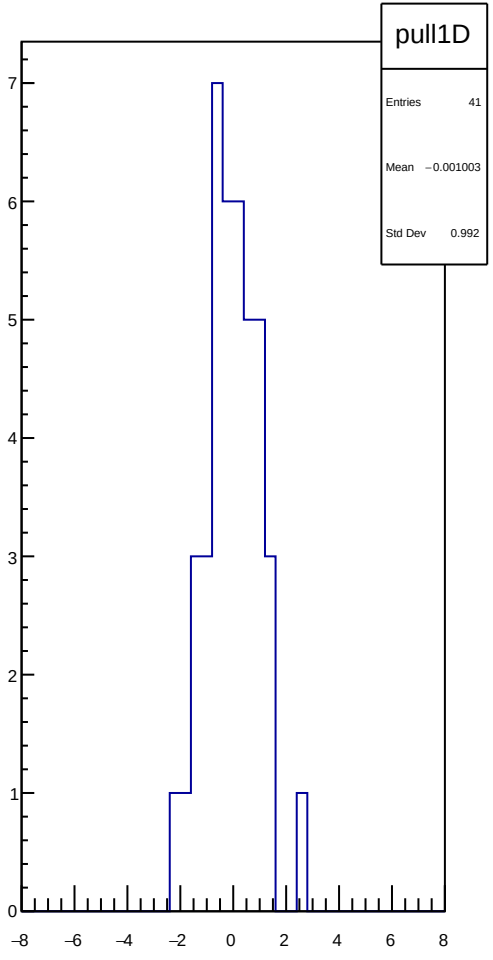

pull1D
Entries 41
Mean −0.001003
Std Dev 0.992
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

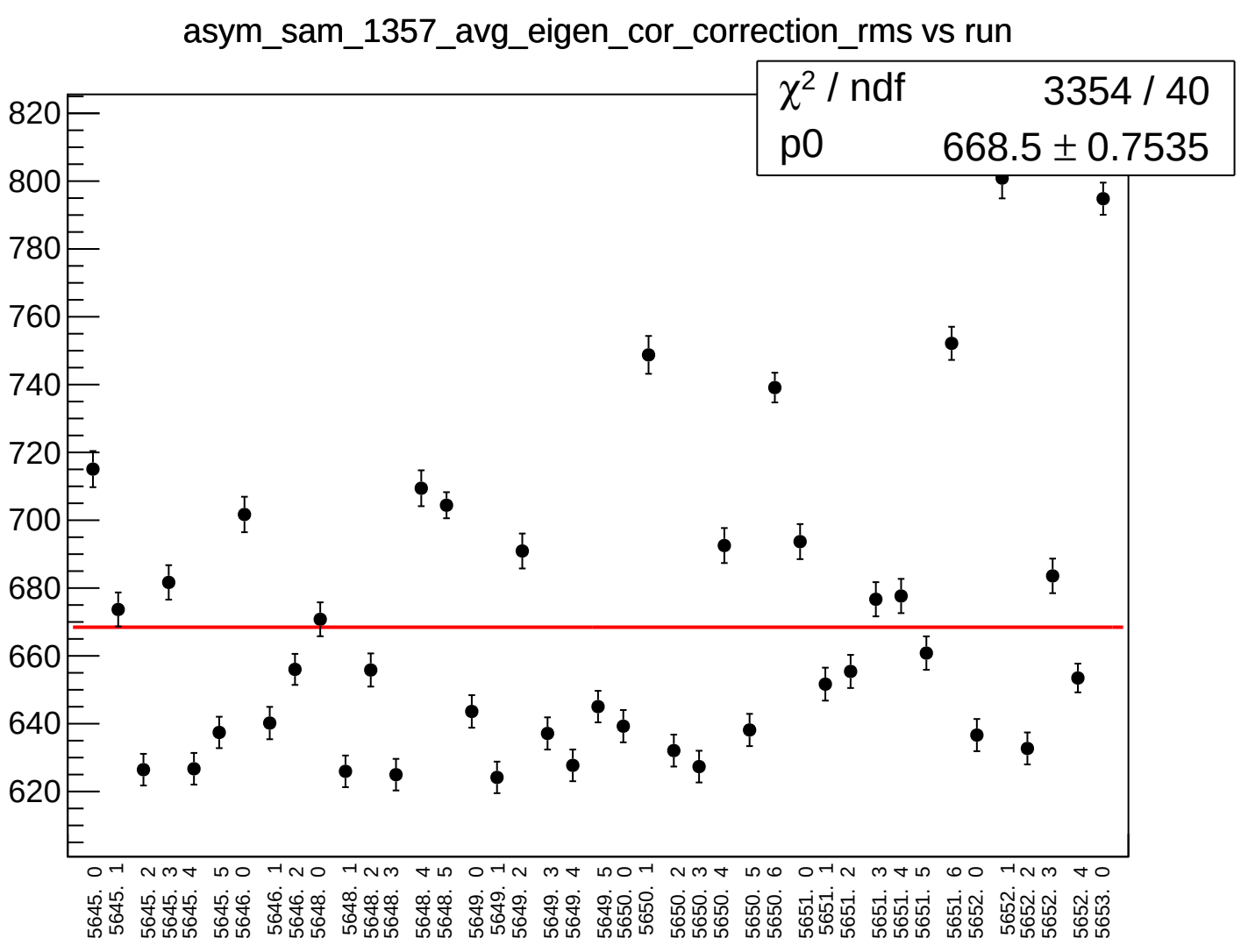

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3354 / 40
p0 668.5 ± 0.7535
820
800
780
760
740
720
700
680
660
640
620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

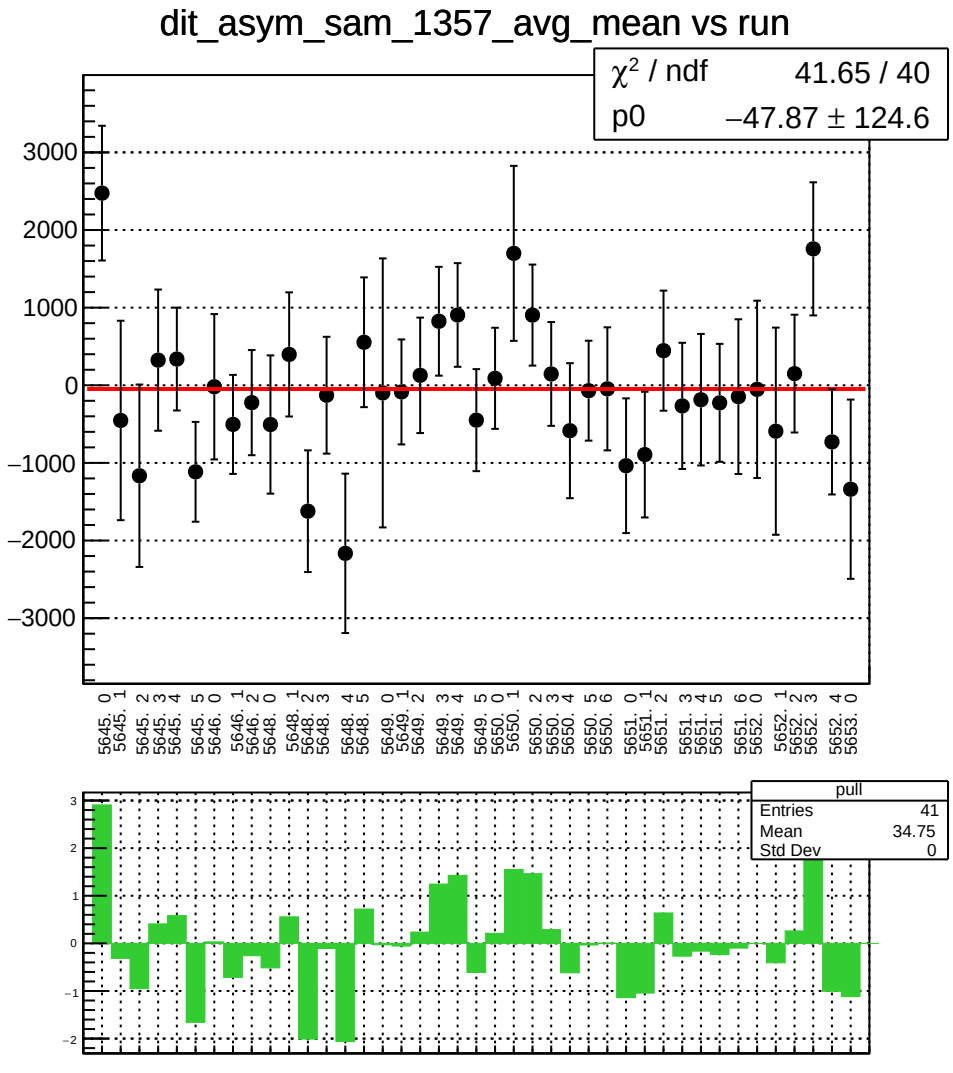

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 35.53 / 40
p0 51.84 ± 100.9
3000
2000
1000
0
−1000
−2000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 66.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01525
Std Dev 0.9307
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

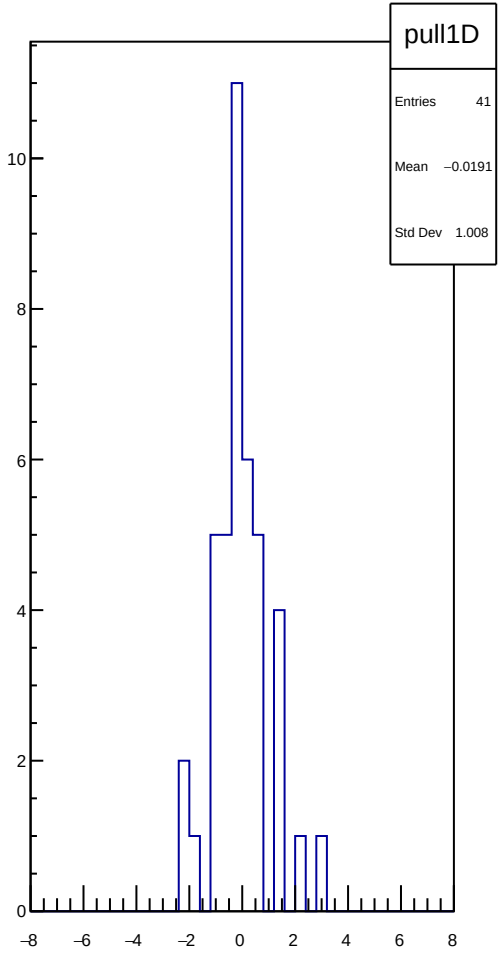

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4.48e+04 / 40
p0 61.62 ± 0.07136
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

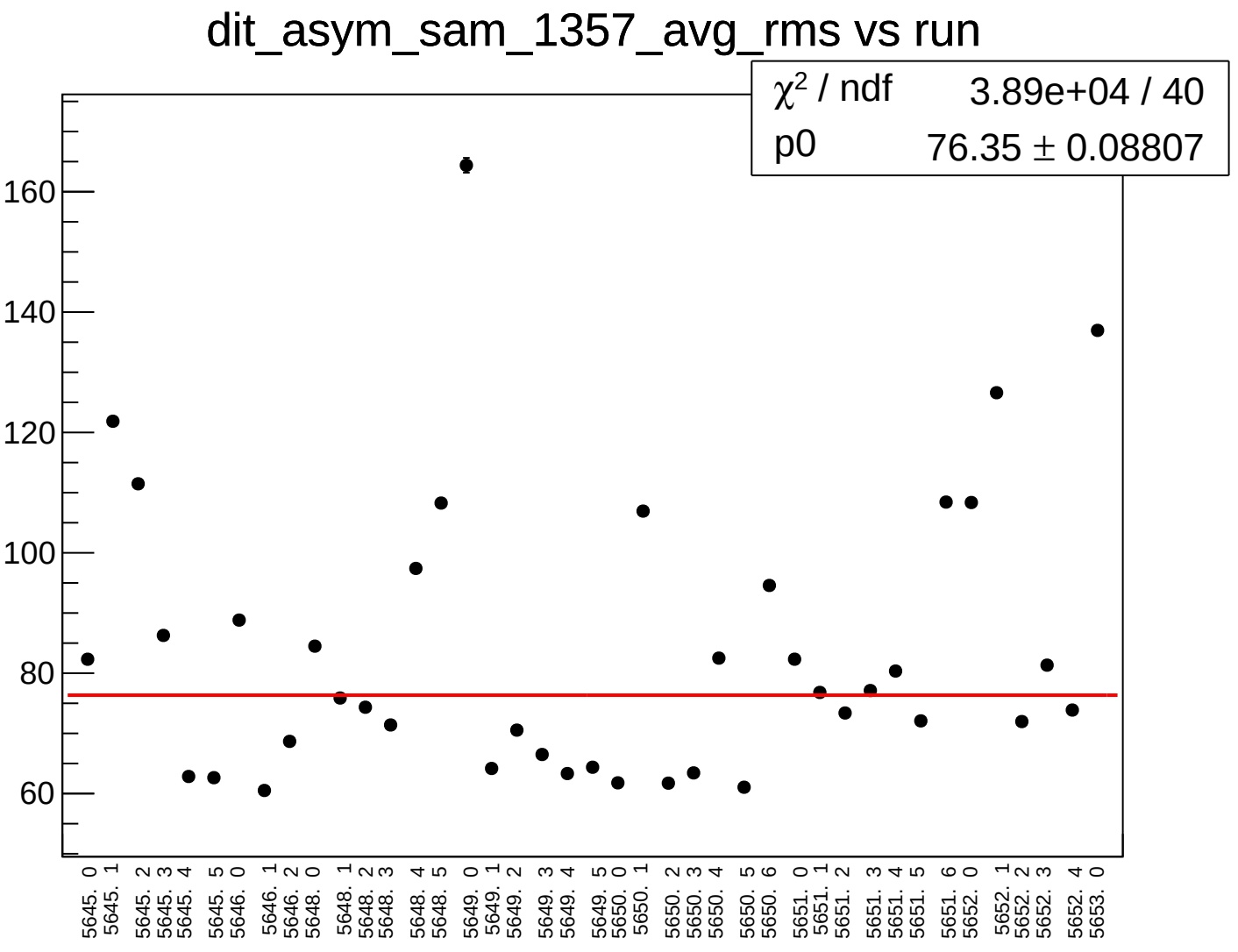

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 40.35 / 40
p0 794.8 ± 1066
30000
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 490.7
Std Dev 0
2
1
0
−1
−2

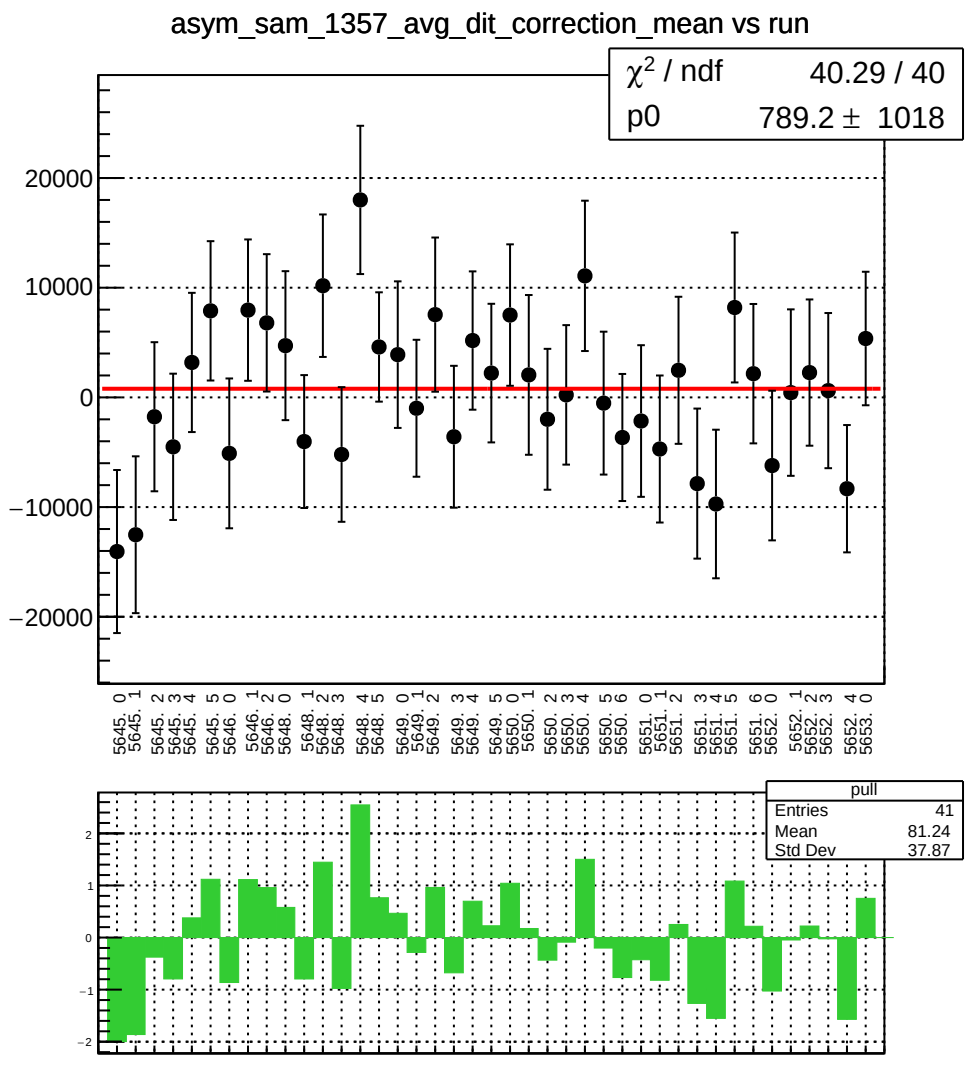

pull1D
Entries 41
Mean −0.001003
Std Dev 0.992
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

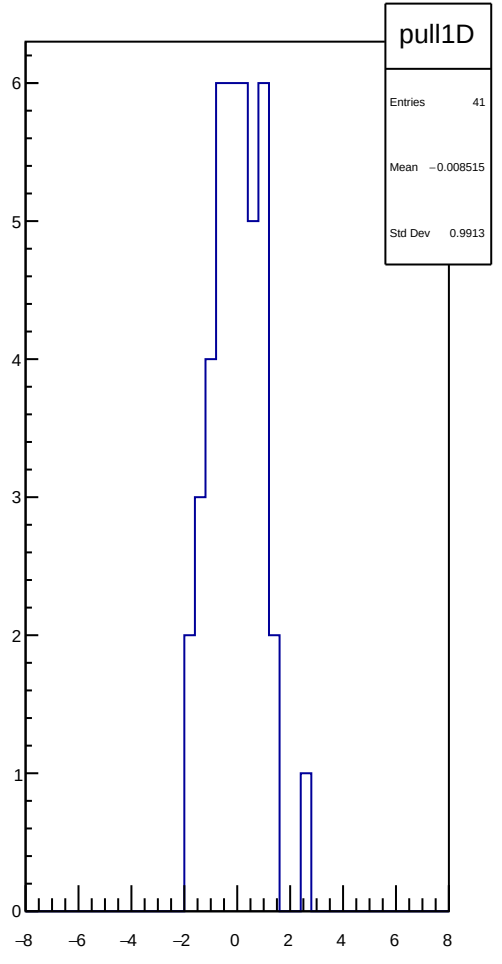

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3354 / 40
p0 668.5 ± 0.7535
820
800
780
760
740
720
700
680
660
640
620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

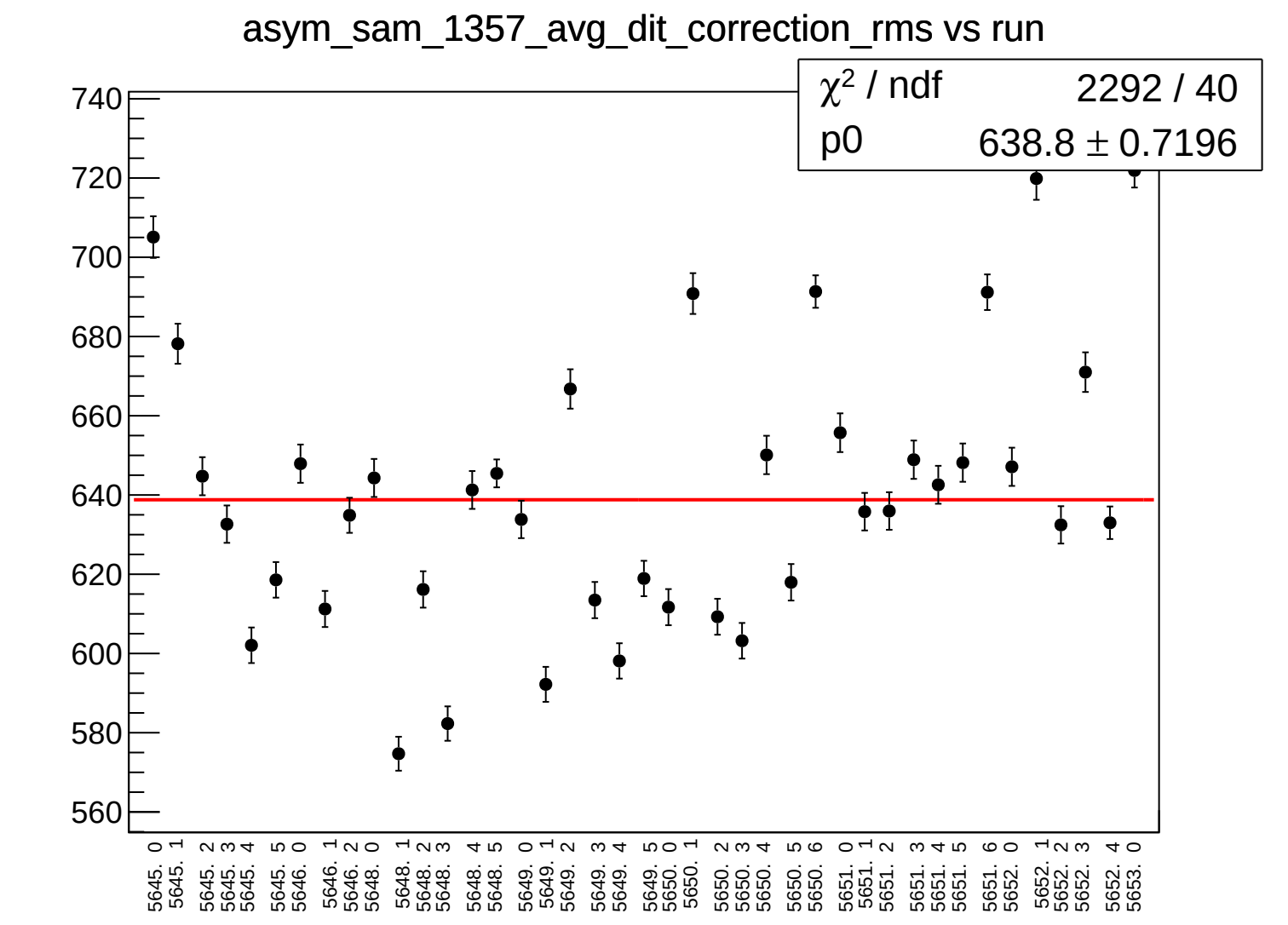

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 41.65 / 40
p0 −47.87 ± 124.6
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.75
Std Dev 0
3
2
1
0
−1
−2

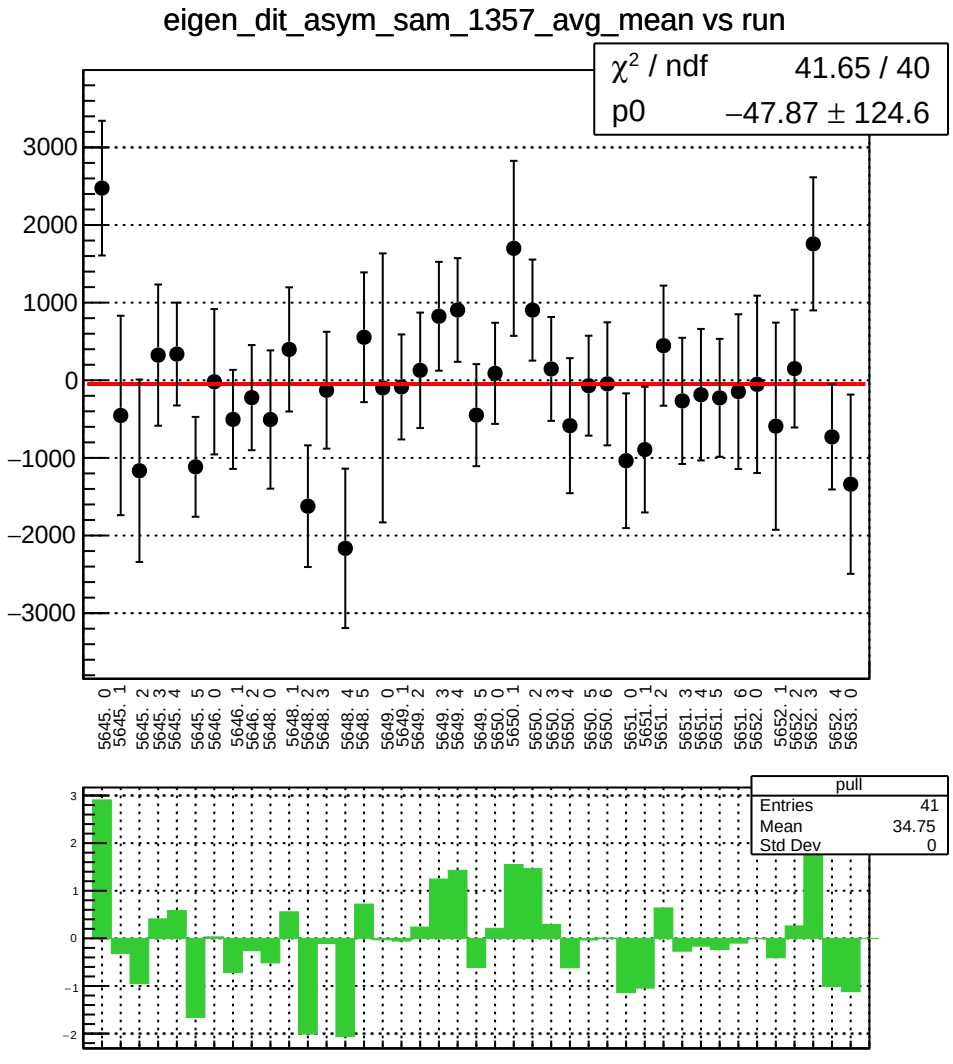

pull1D
Entries 41
Mean −0.0191
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

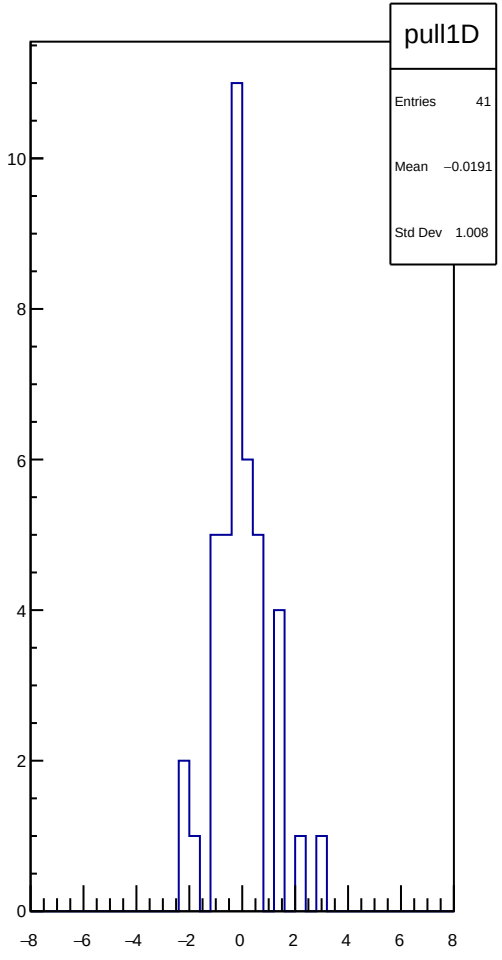

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.89e+04 / 40
p0 76.35 ± 0.08807
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

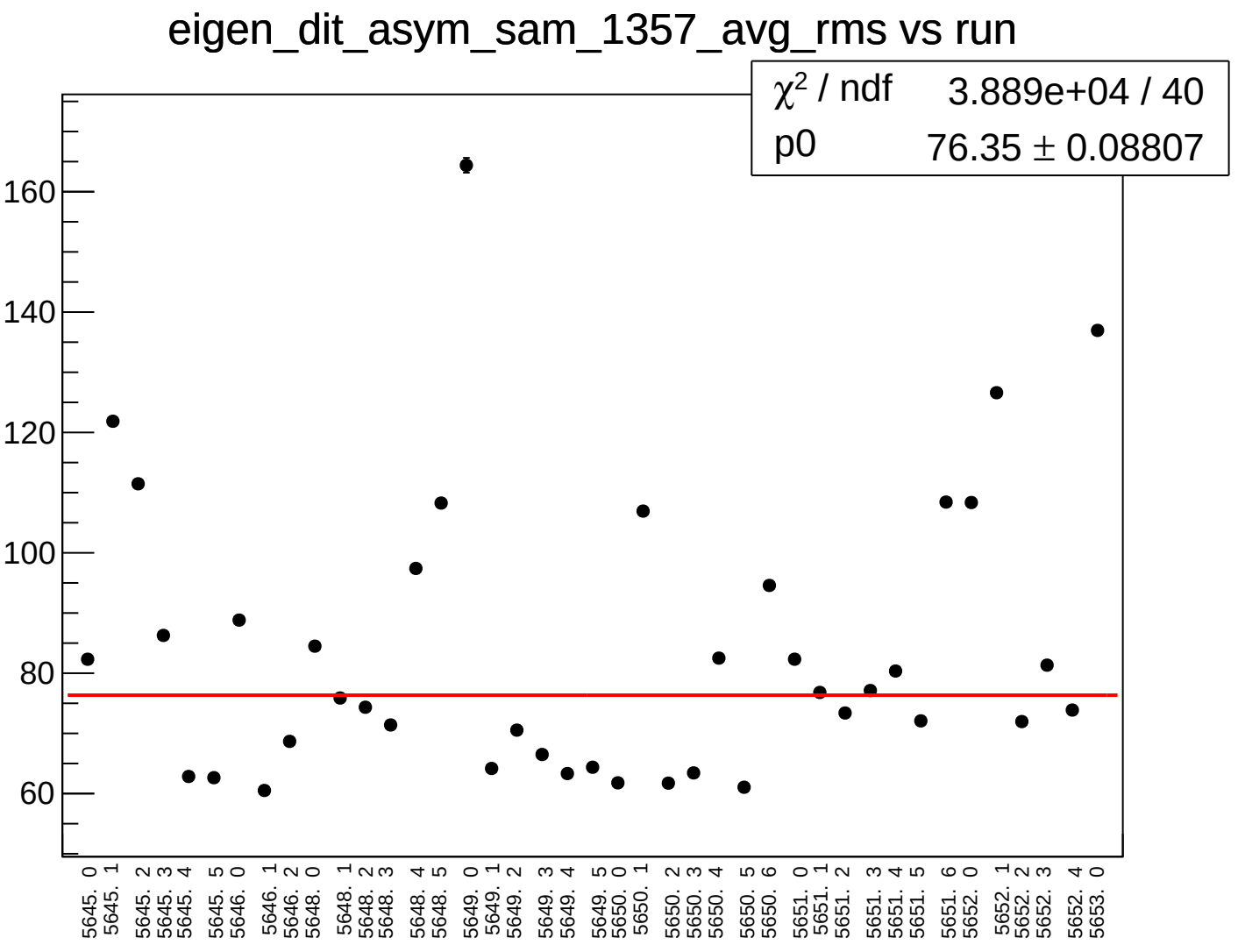

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 40.29 / 40
p0 789.2 ± 1018
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.24
Std Dev 37.87
2
1
0
−1
−2

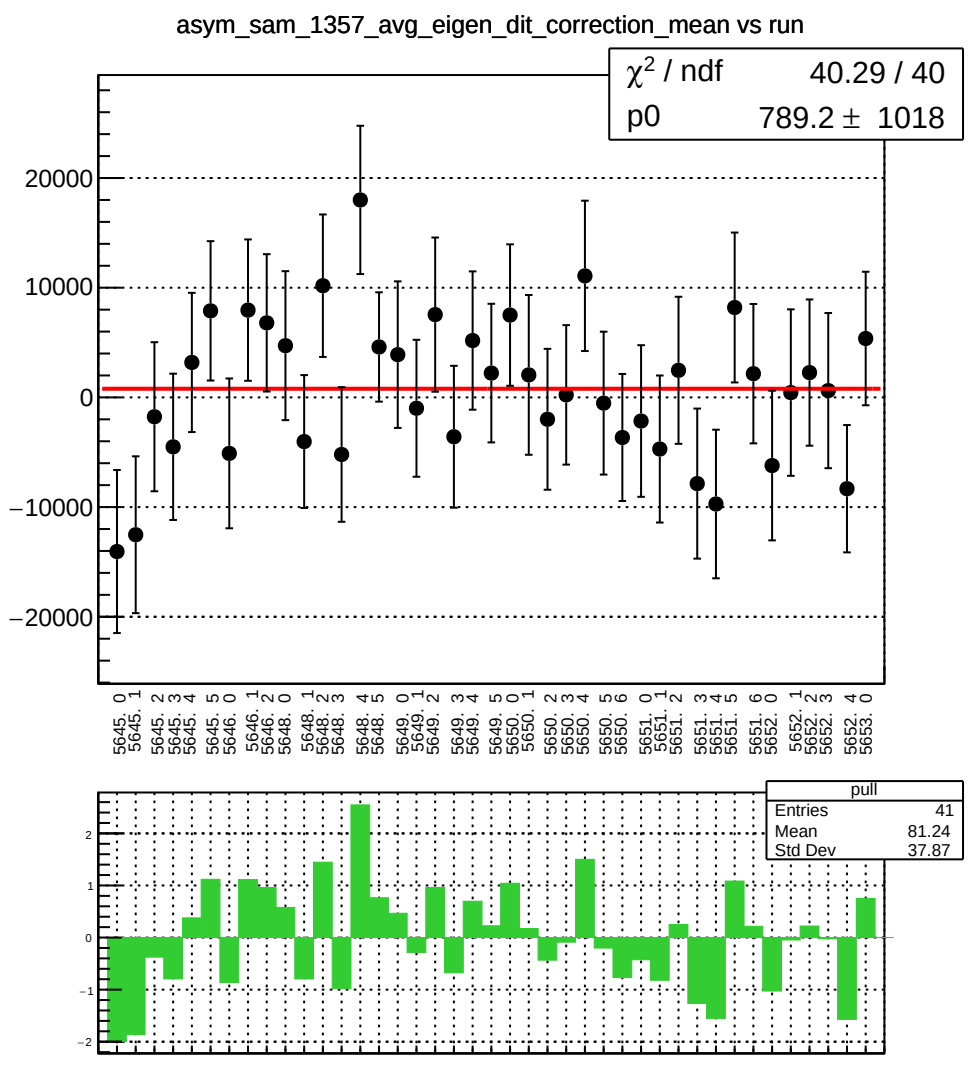

pull1D
Entries 41
Mean −0.008515
Std Dev 0.9913
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

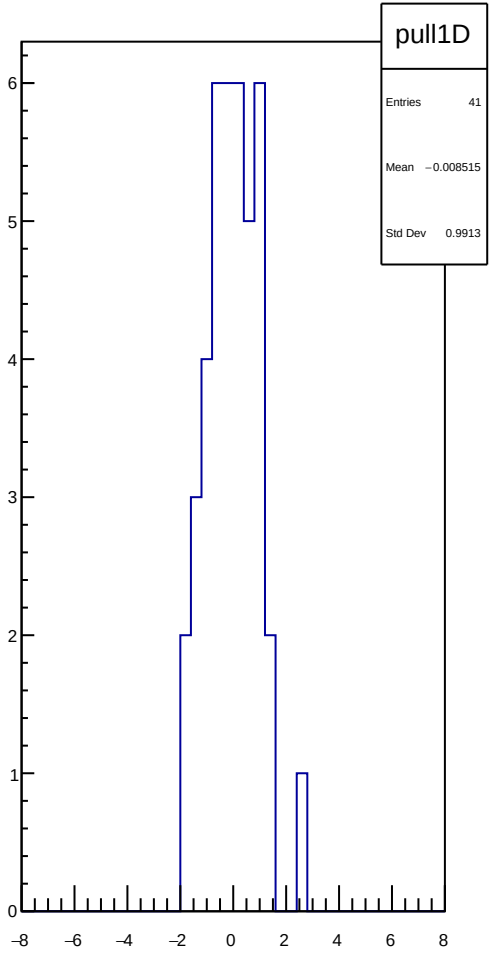

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2292 / 40
p0 638.8 ± 0.7196
740
720
700
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

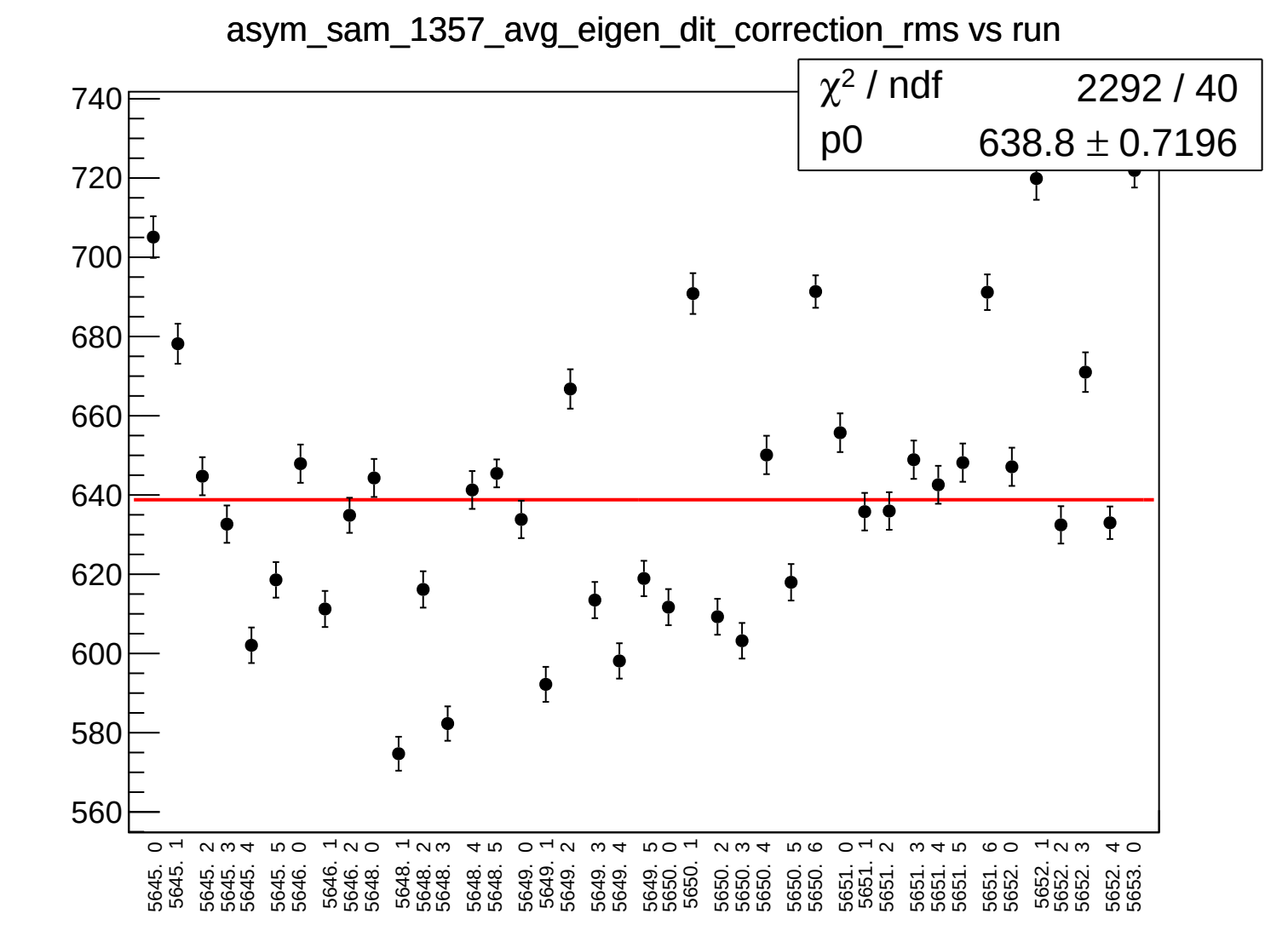

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 41.65 / 40
p0 −47.87 ± 124.6
3000
2000
1000
0
−1000
−2000
−3000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.75
Std Dev 0
3
2
1
0
−1
−2

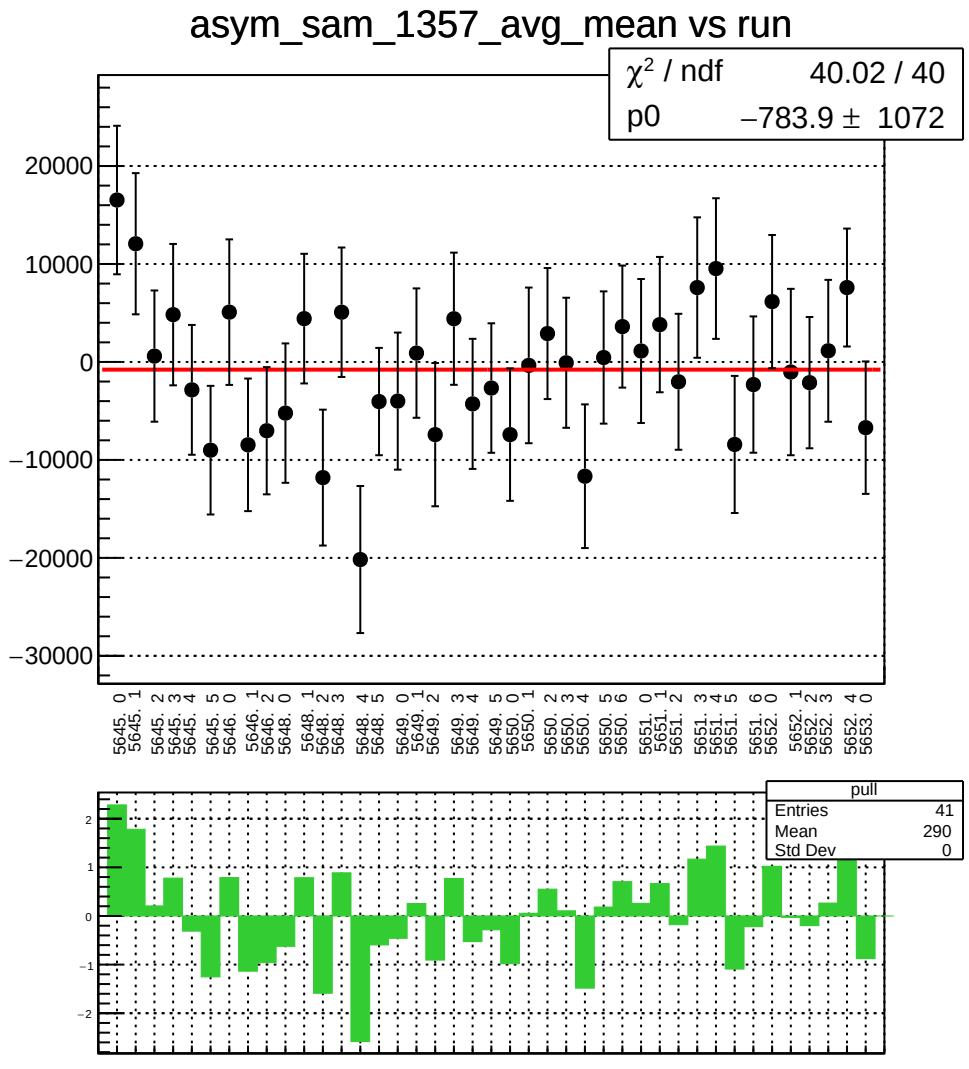

pull1D
Entries 41
Mean −0.0191
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

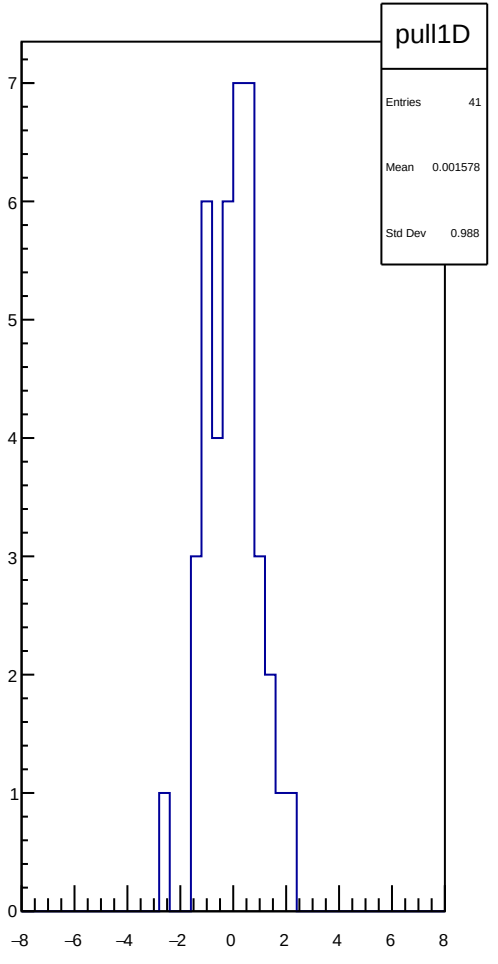

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.889e+04 / 40
p0 76.35 ± 0.08807
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

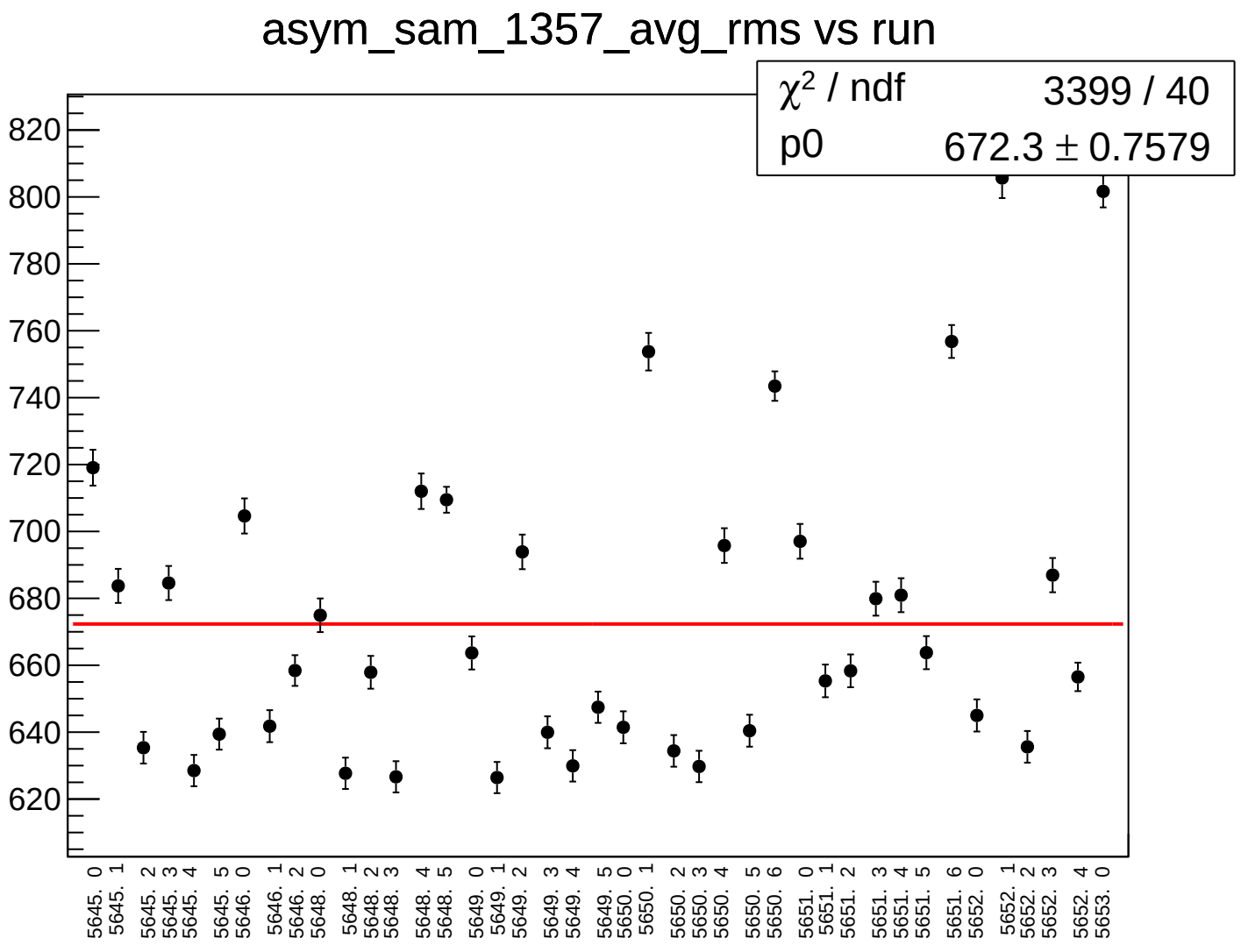

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 40.29 / 40
p0 789.2 ± 1018
20000
10000
0
−10000
−20000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.24
Std Dev 37.87
2
1
0
−1
−2

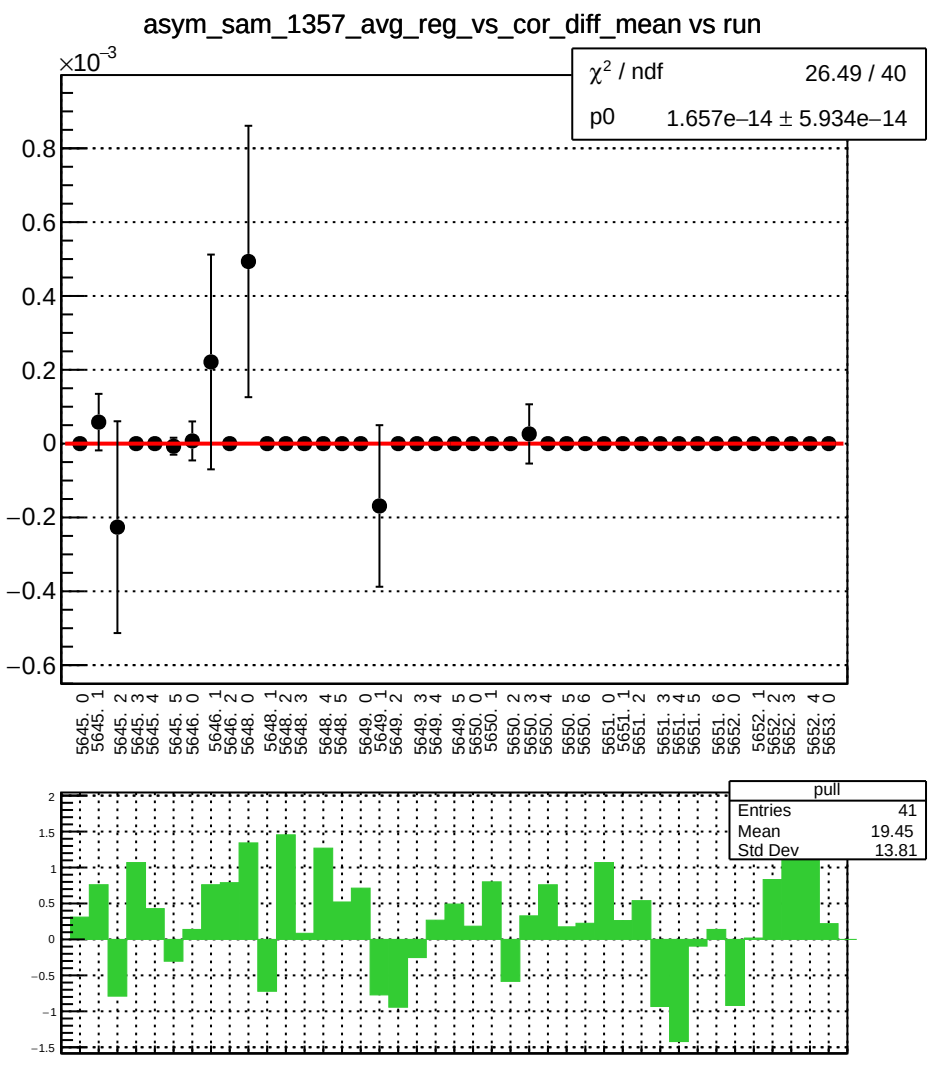

pull1D
Entries 41
Mean −0.008515
Std Dev 0.9913
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

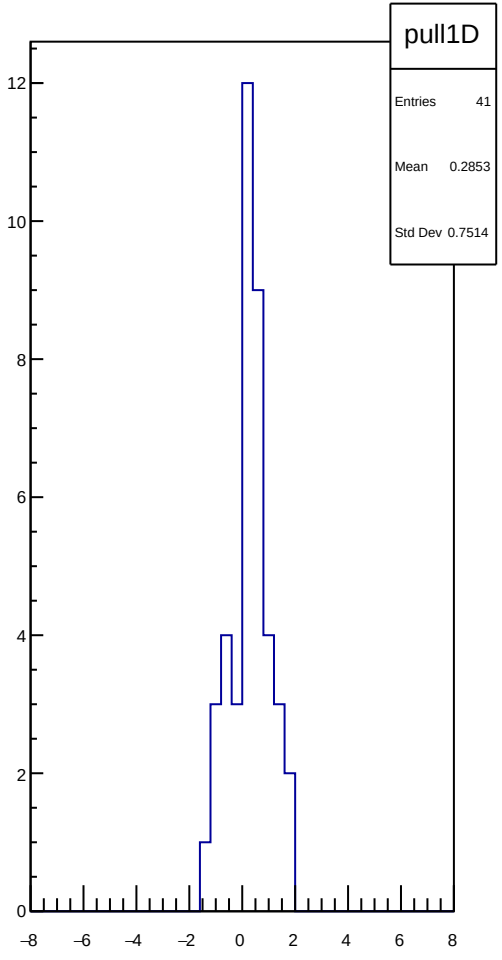

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2292 / 40
p0 638.8 ± 0.7196
740
720
700
680
660
640
620
600
580
560
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

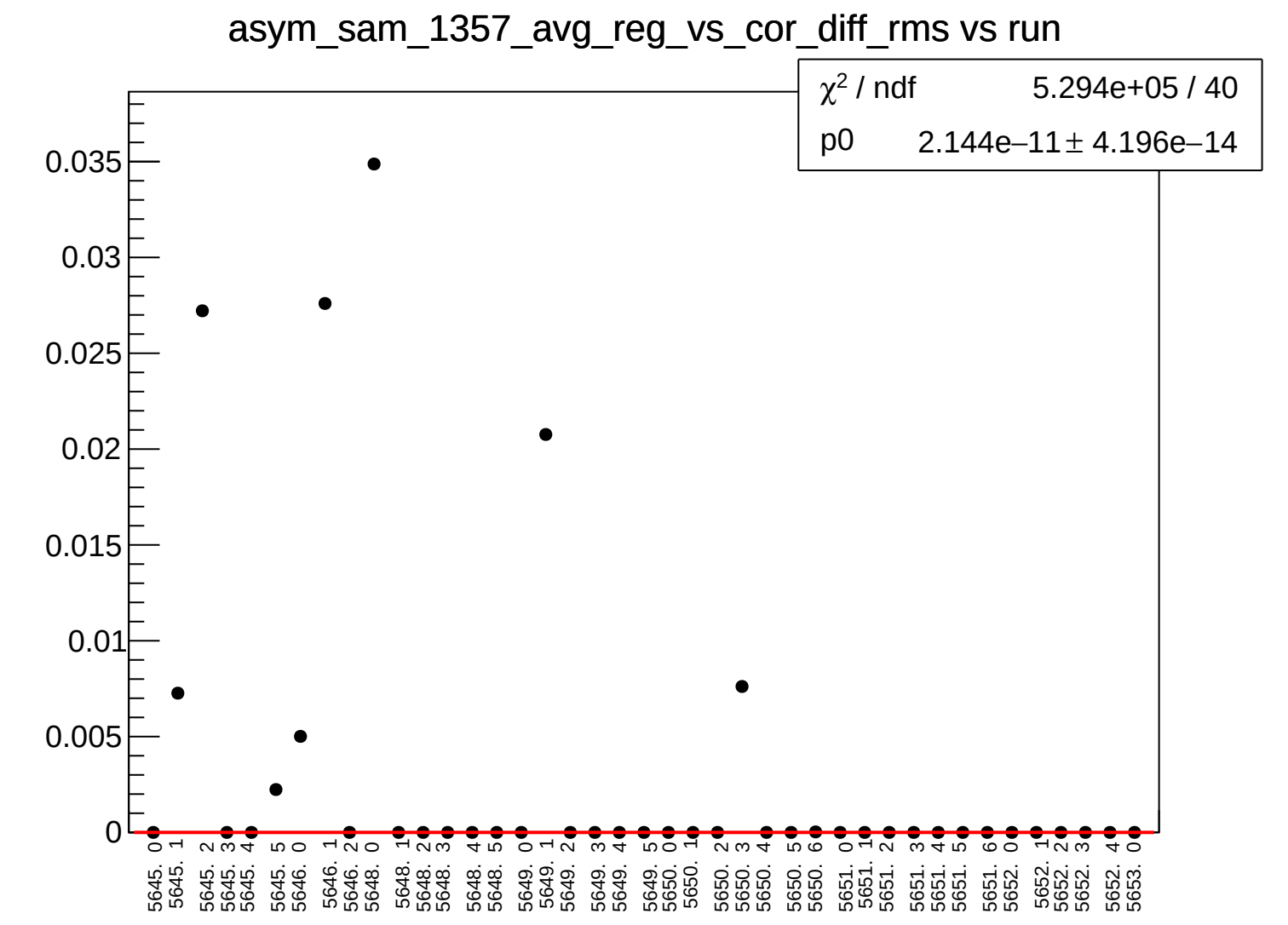

asym_sam_1357_avg_mean vs run
χ² / ndf 40.02 / 40
p0 −783.9 ± 1072
20000
10000
0
−10000
−20000
−30000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 290
Std Dev 0
2
1
0
−1
−2

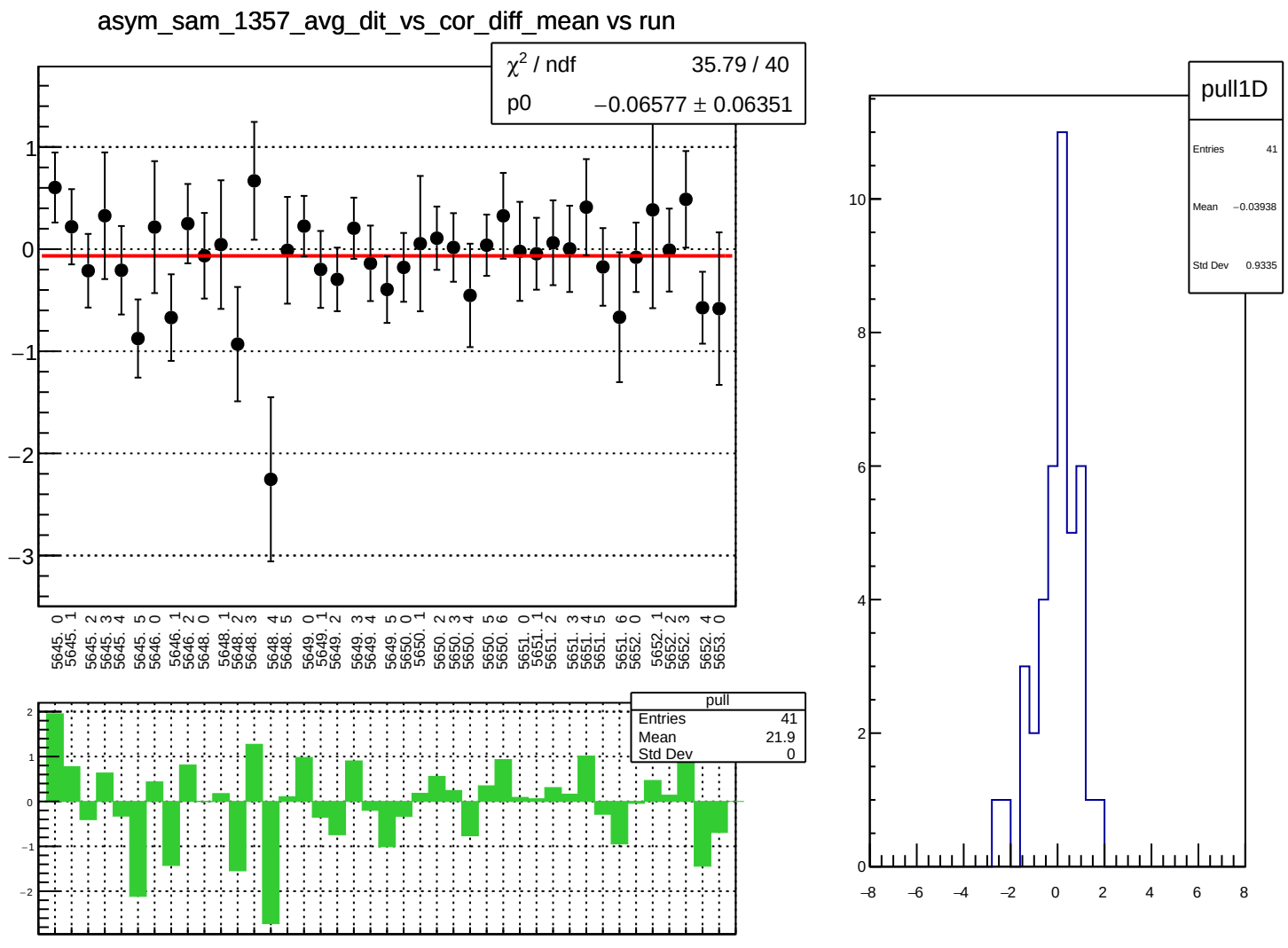

pull1D
Entries 41
Mean 0.001578
Std Dev 0.988
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

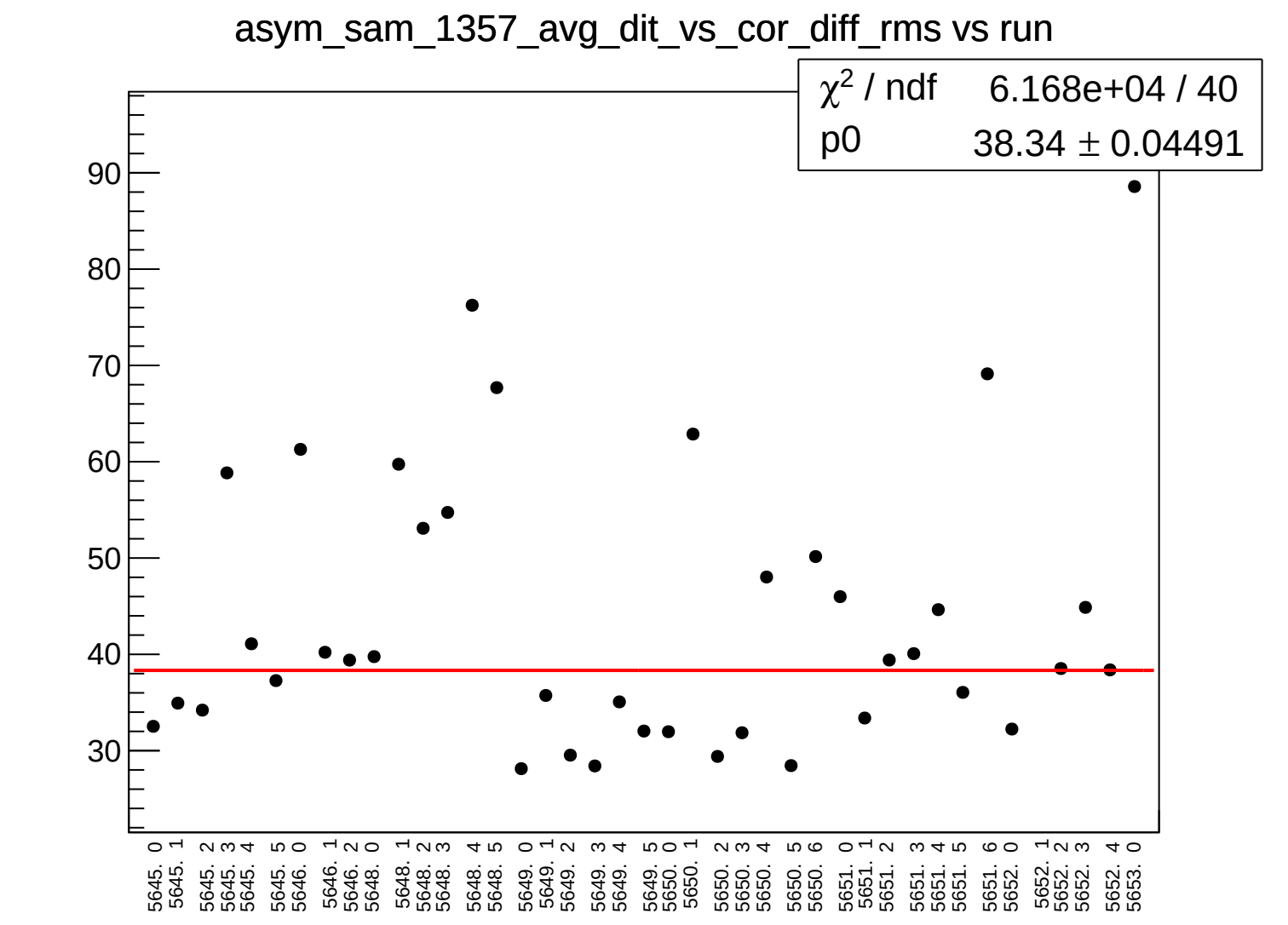

asym_sam_1357_avg_rms vs run
χ² / ndf 3399 / 40
p0 672.3 ± 0.7579
820
800
780
760
740
720
700
680
660
640
620
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

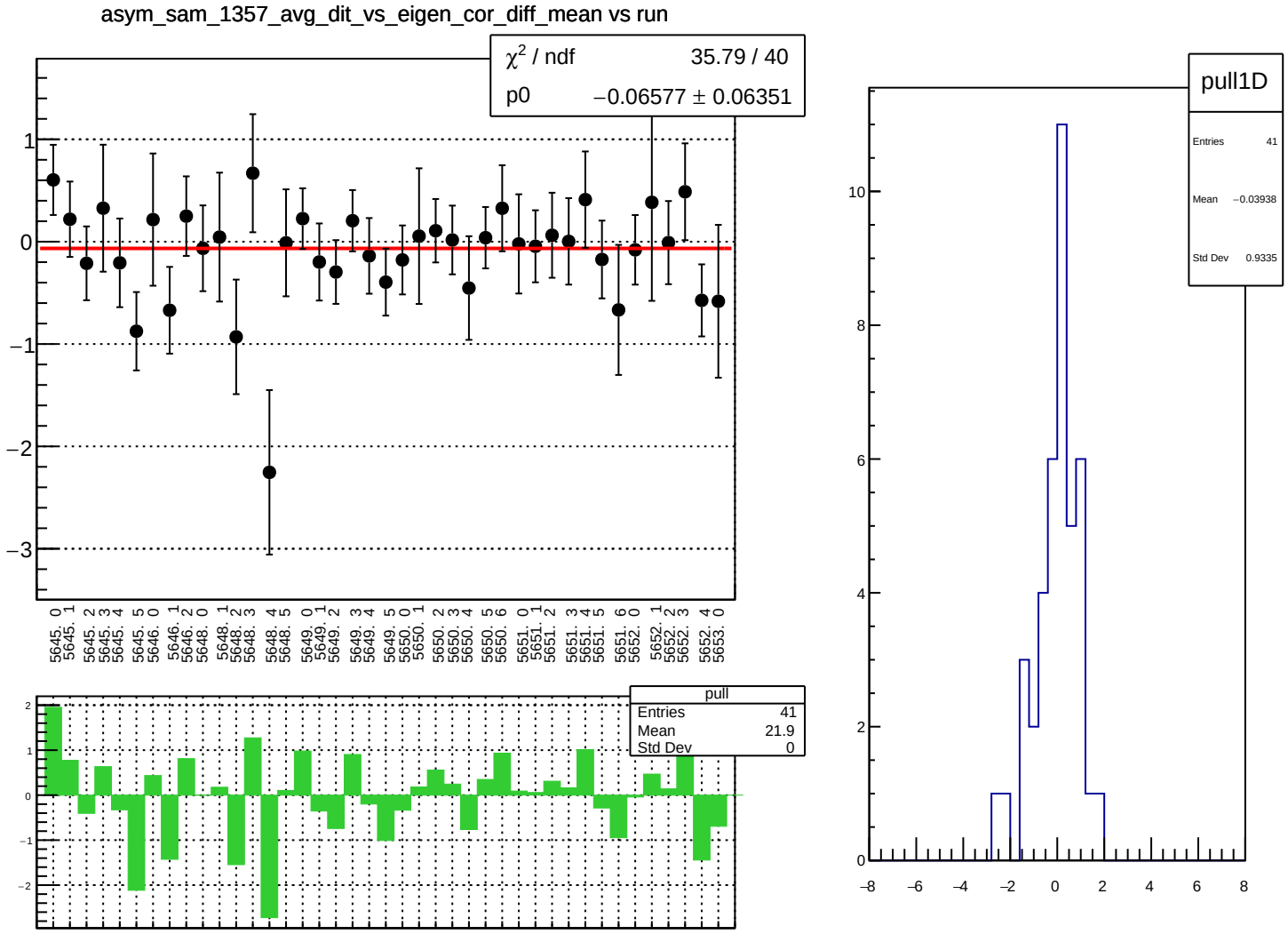

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 26.49 / 40
p0 1.657e−14 ± 5.934e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 19.45
Std Dev 13.81
2
1.5
1
0.5
0
−0.5
−1
−1.5

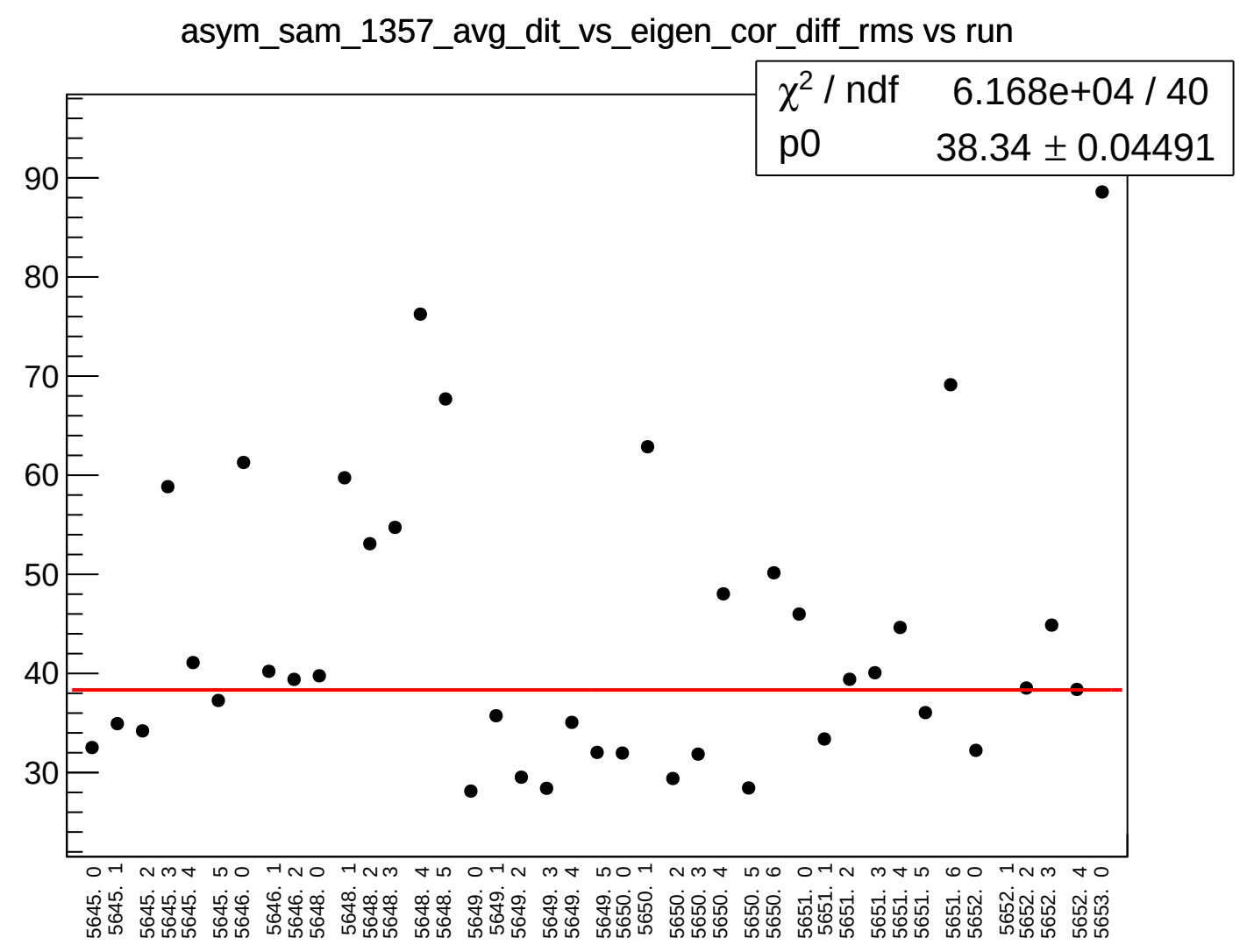

pull1D
Entries 41
Mean 0.2853
Std Dev 0.7514
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

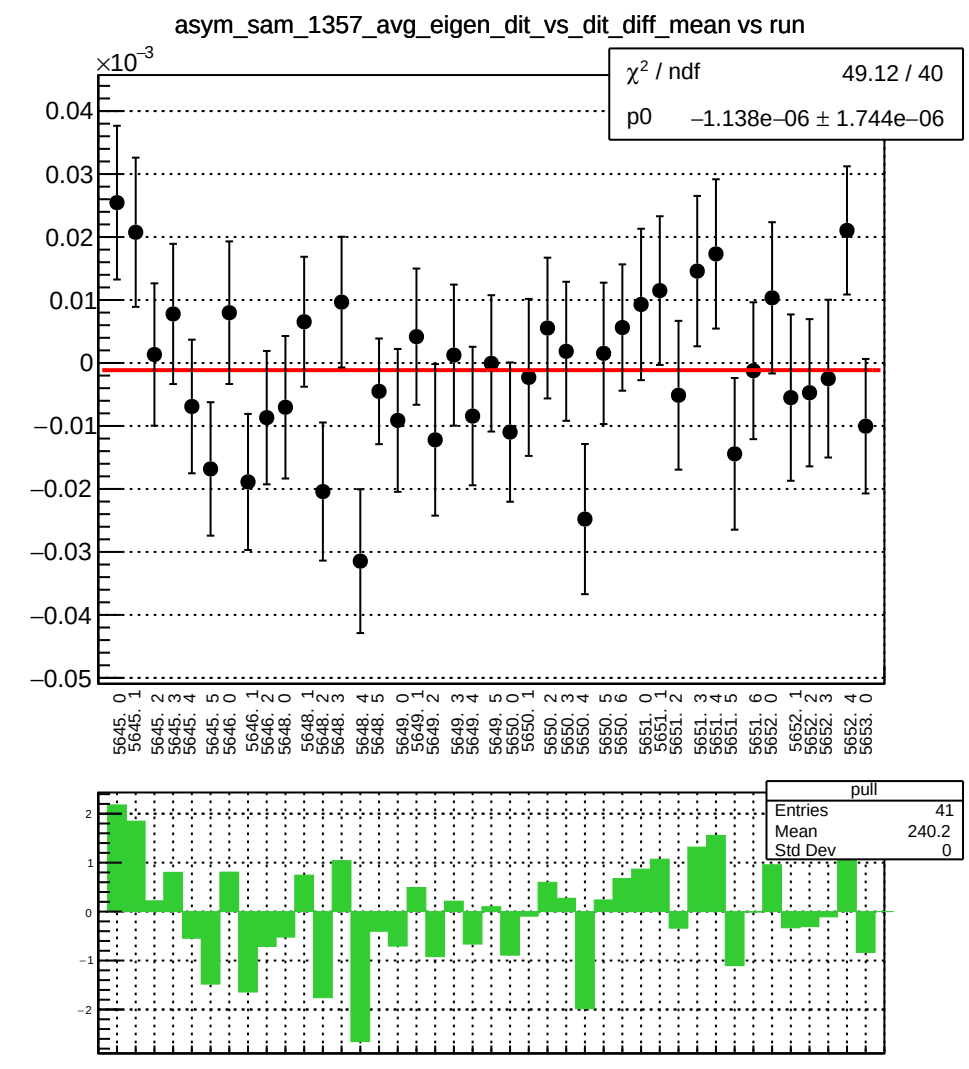

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.294e+05 / 40
p0 2.144e−11 ± 4.196e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

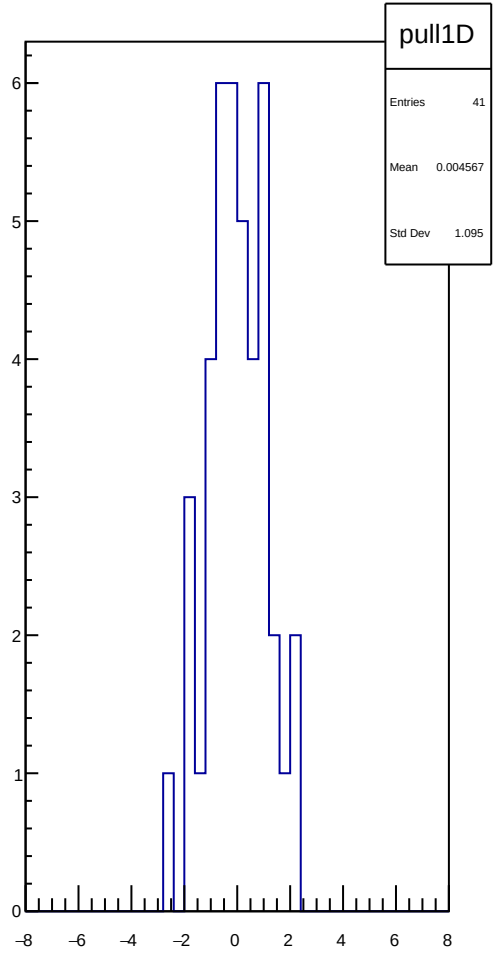

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 35.79 / 40
p0 −0.06577 ± 0.06351
pull
Entries 41
Mean 21.9
Std Dev 0
pull1D
Entries 41
Mean −0.03938
Std Dev 0.9335

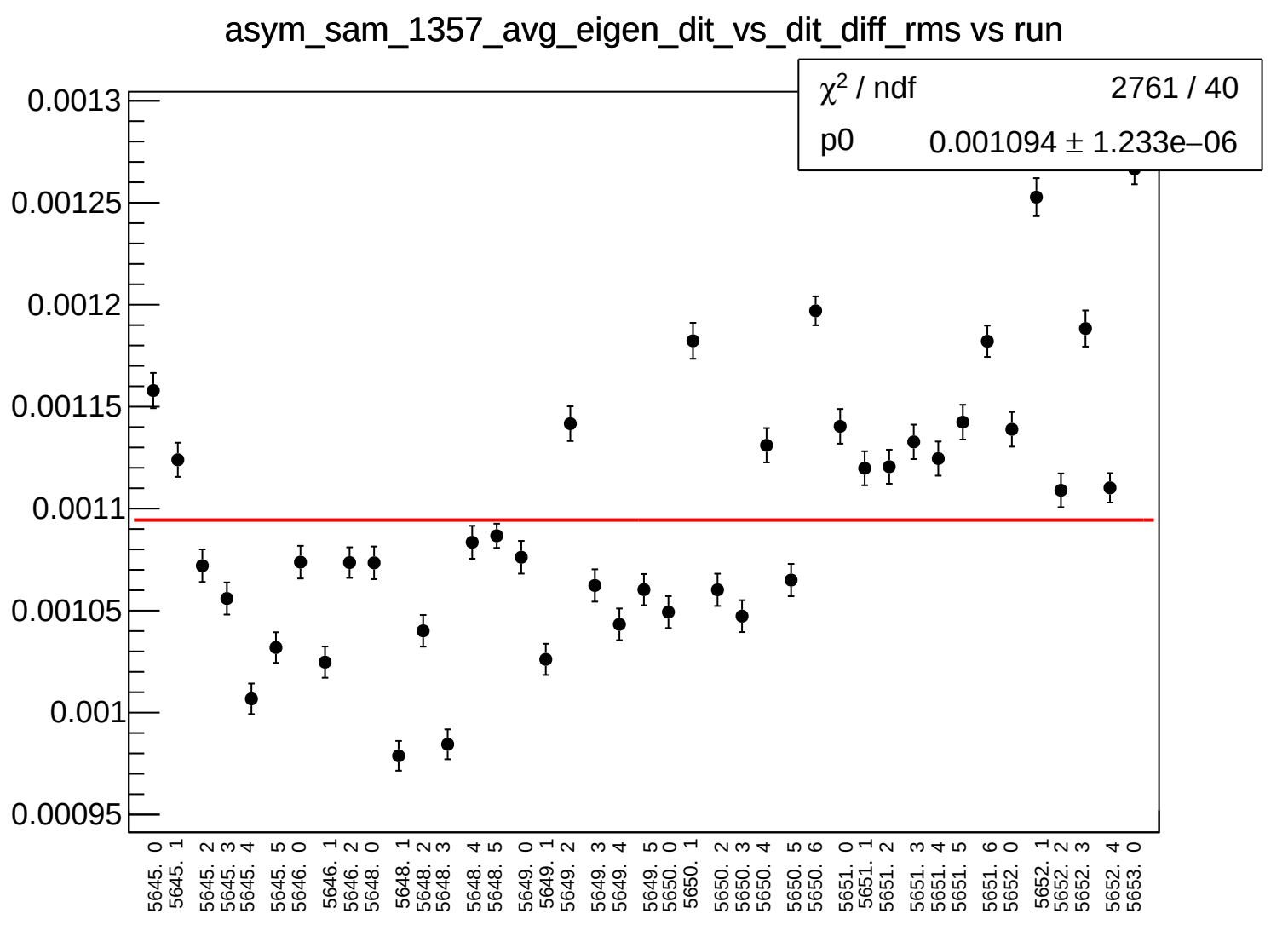

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.168e+04 / 40
p0 38.34 ± 0.04491
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

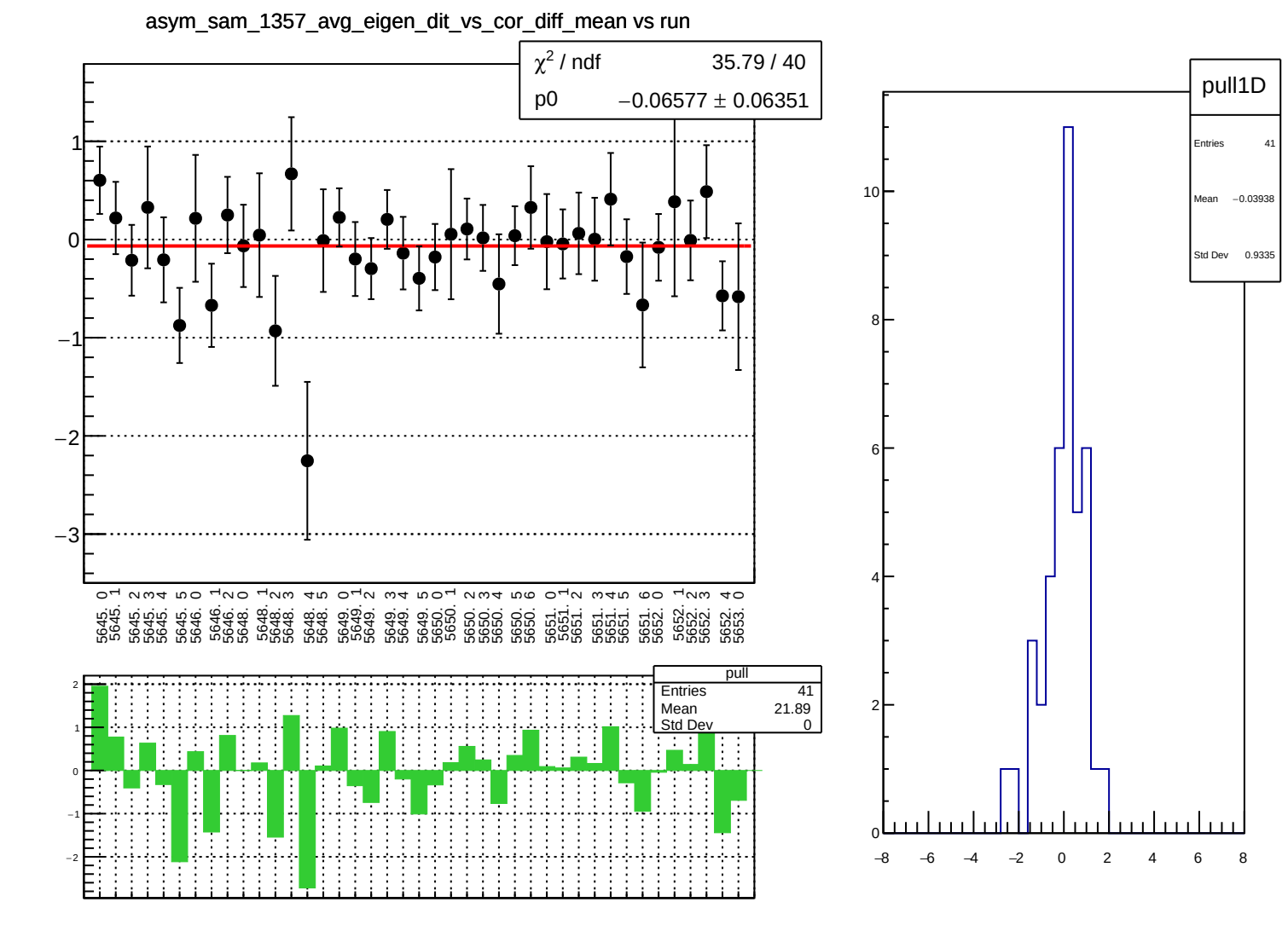

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.79 / 40
p0 −0.06577 ± 0.06351
pull
Entries 41
Mean 21.9
Std Dev 0
pull1D
Entries 41
Mean −0.03938
Std Dev 0.9335

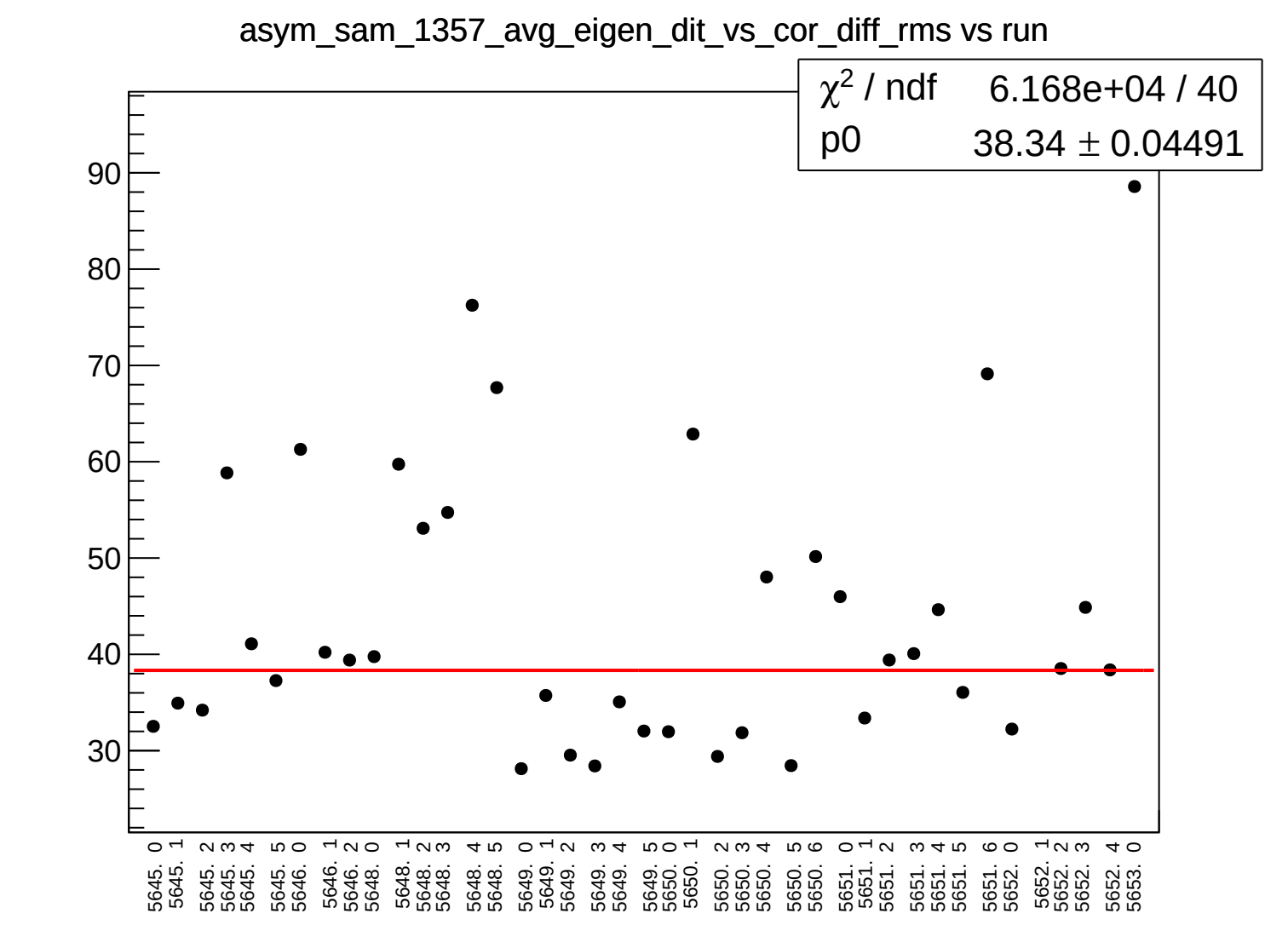

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.168e+04 / 40
p0 38.34 ± 0.04491
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.12 / 40
p0 −1.138e−06 ± 1.744e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 240.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.004567
Std Dev 1.095
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 2761 / 40
p0 0.001094 ± 1.233e−06
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 35.79 / 40
p0 −0.06577 ± 0.06351
pull
Entries 41
Mean 21.89
Std Dev 0
pull1D
Entries 41
Mean −0.03938
Std Dev 0.9335


asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.168e+04 / 40
p0 38.34 ± 0.04491
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
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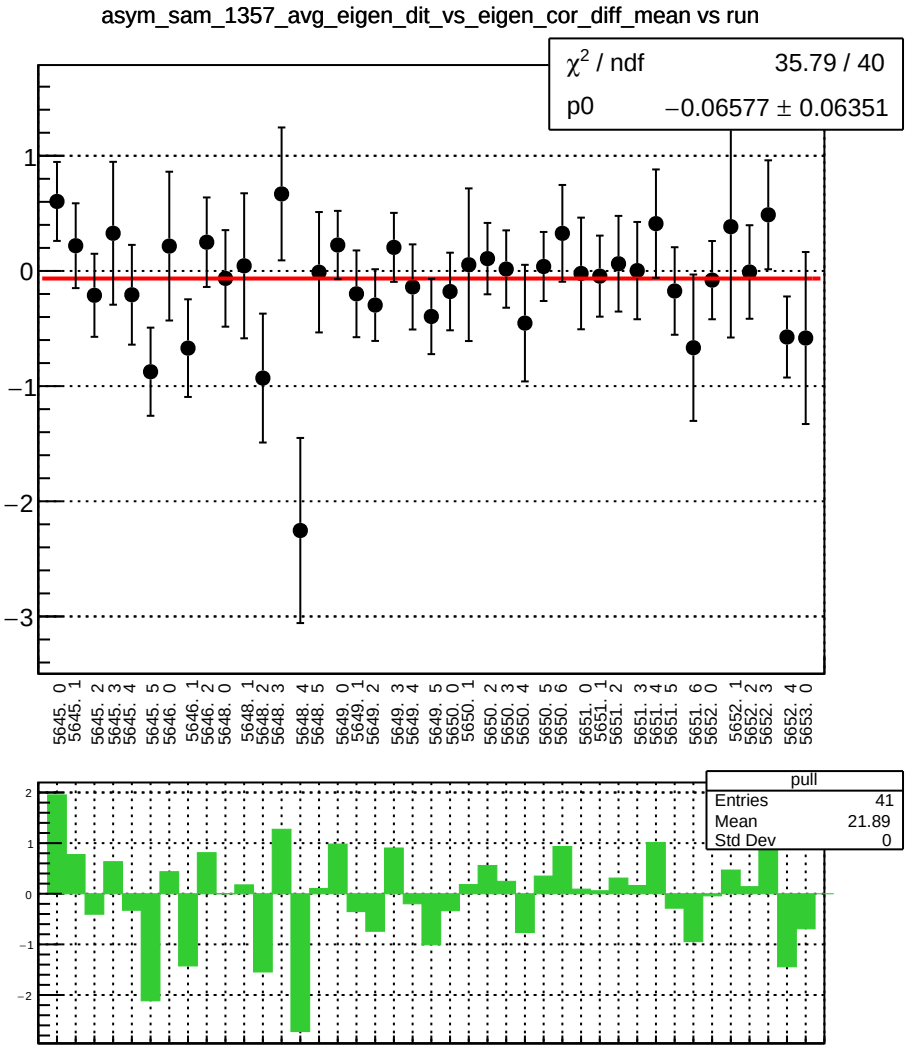
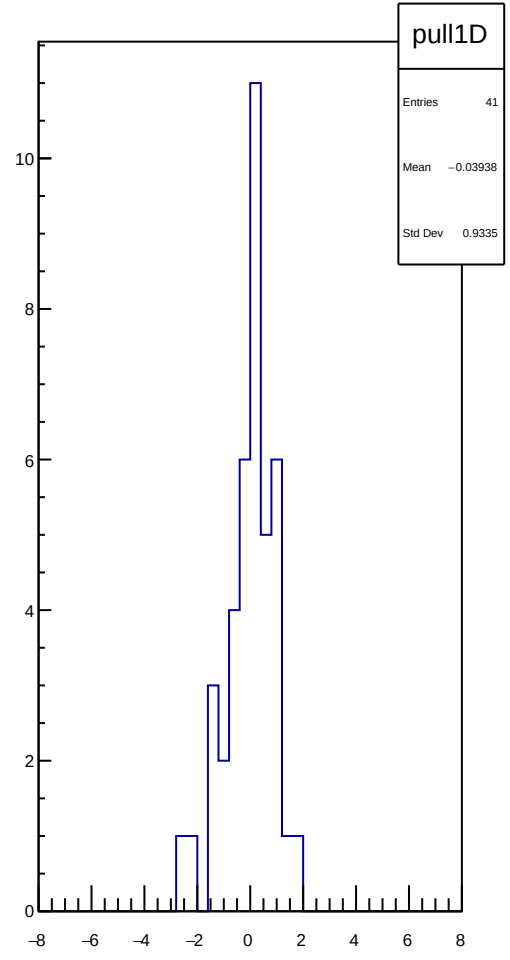
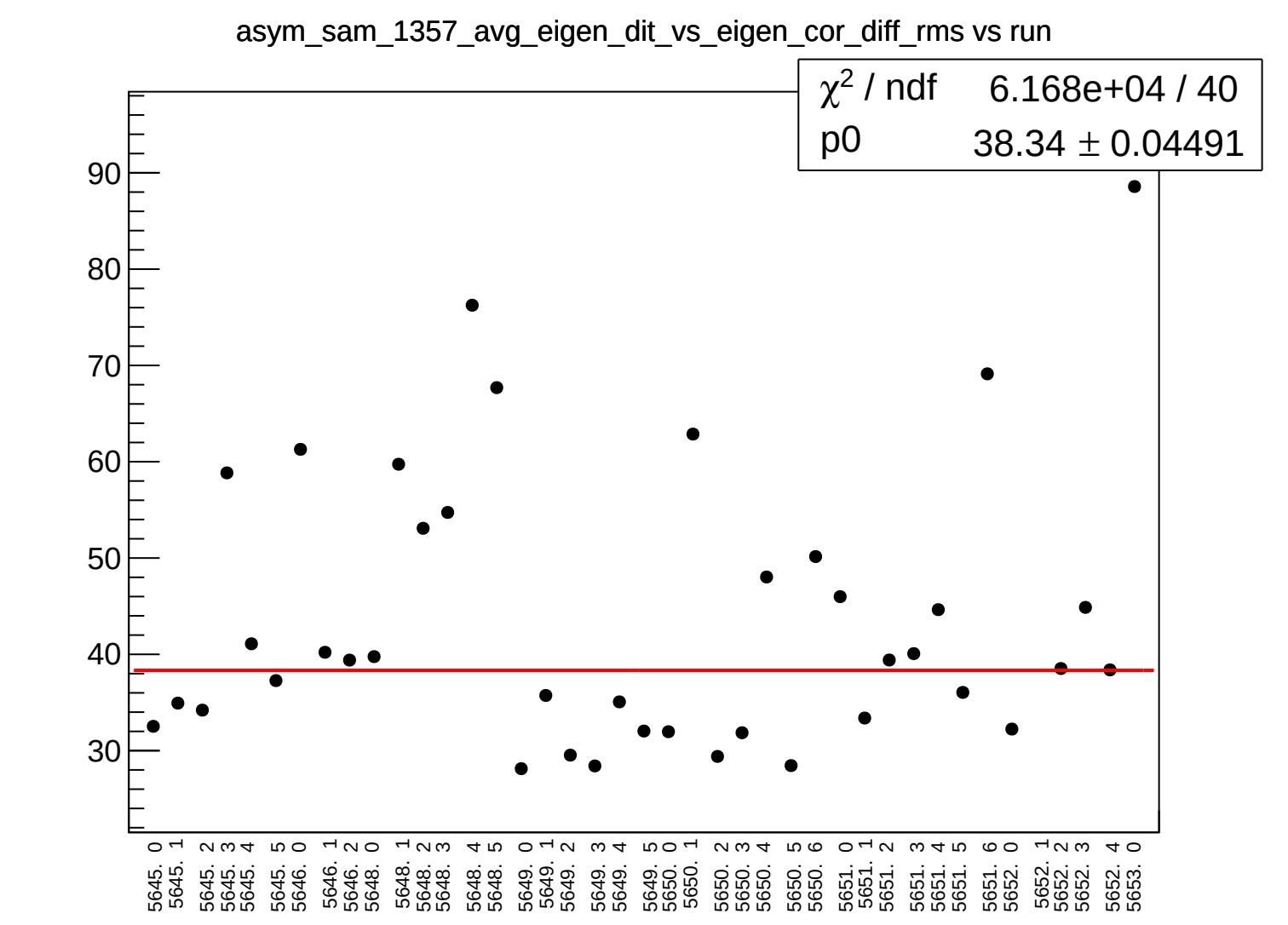
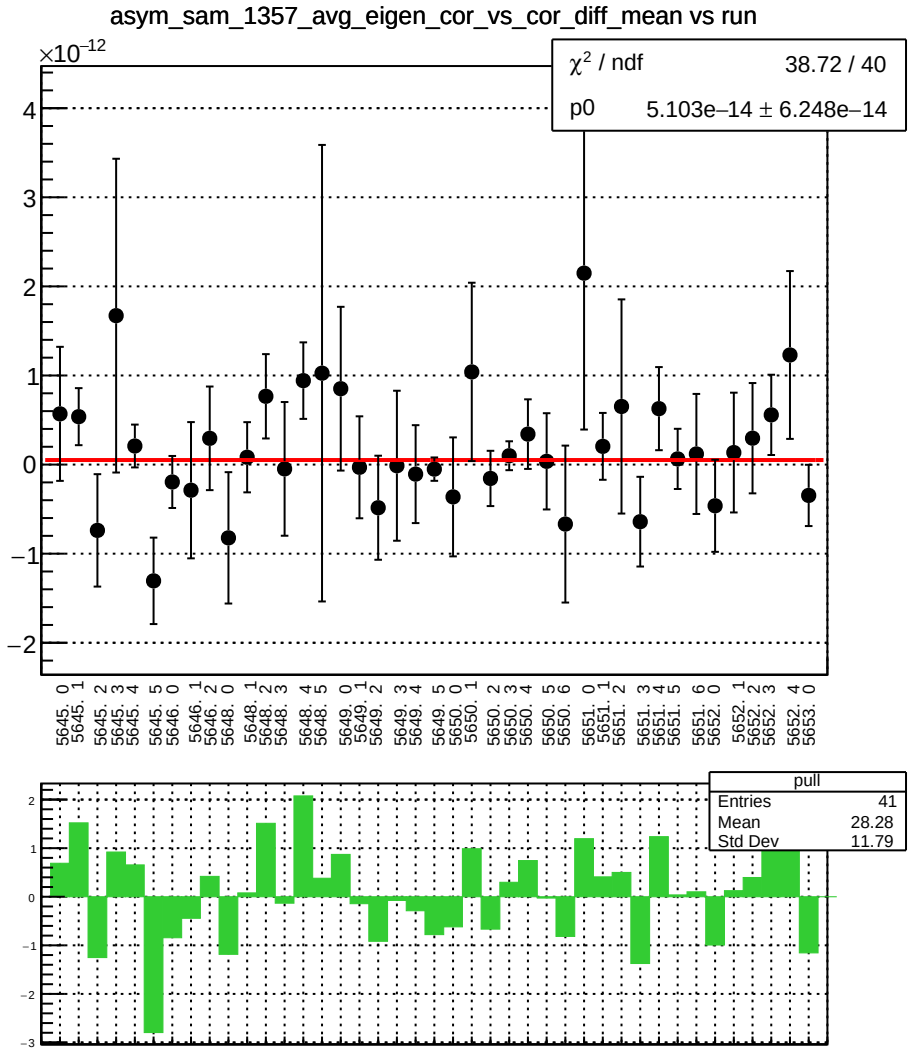
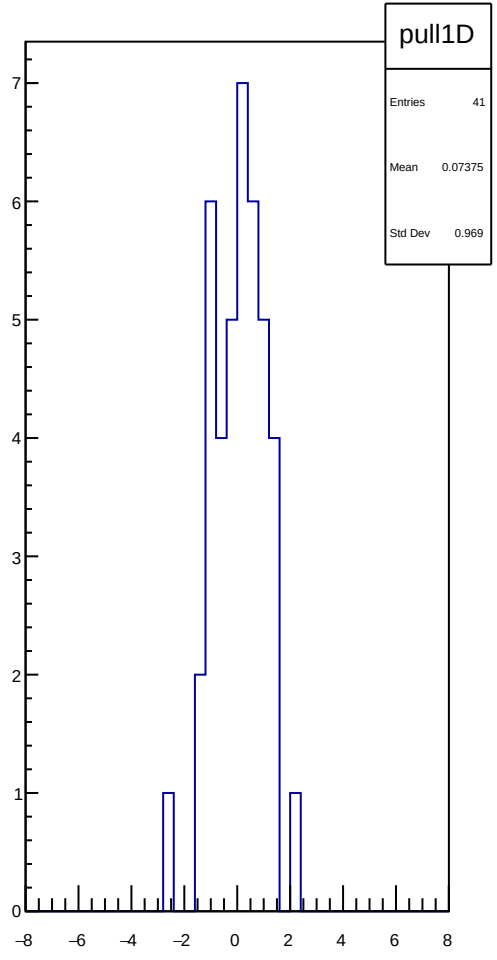
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

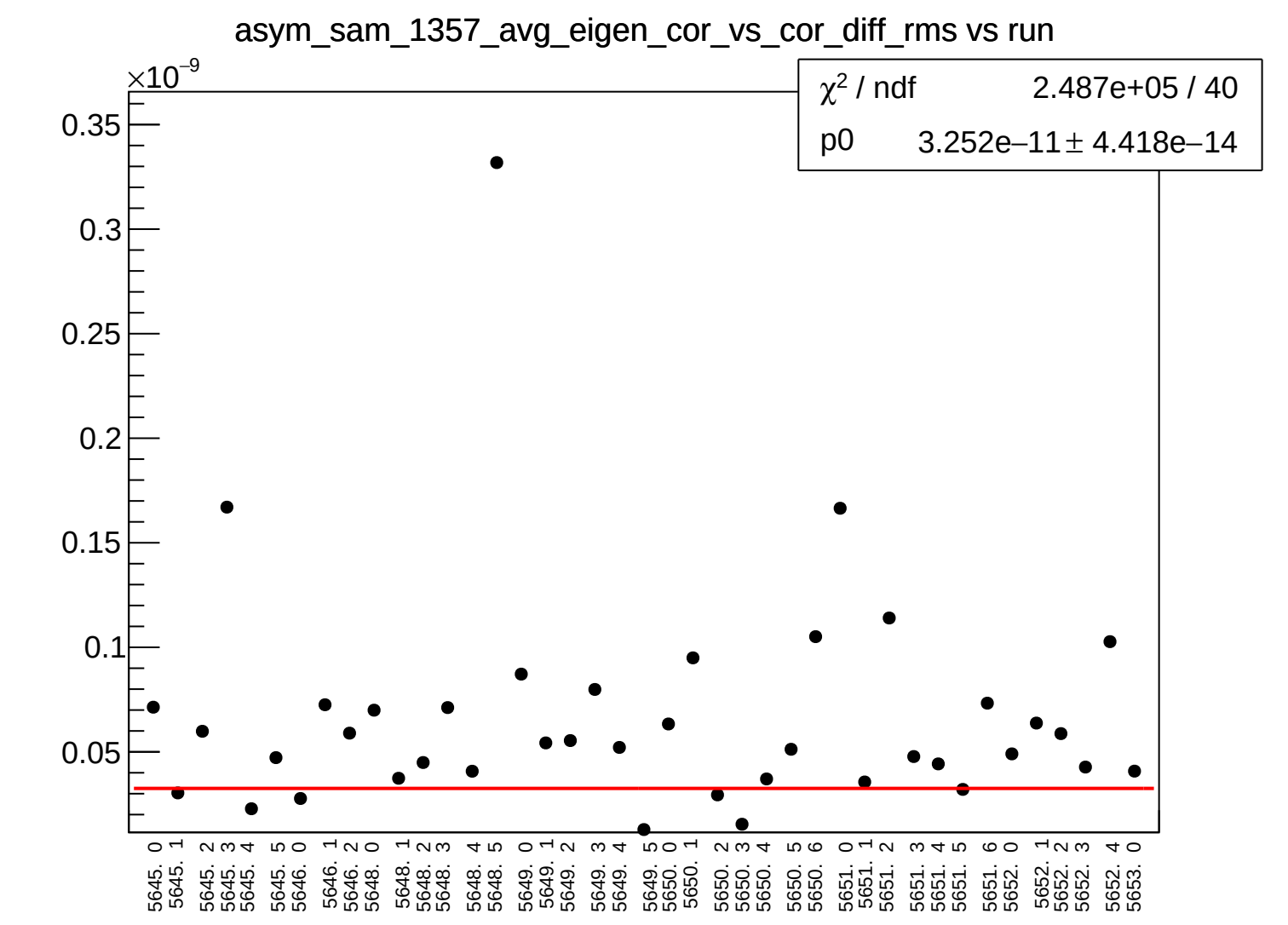

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 35.79 / 40
p0 −0.06577 ± 0.06351
pull
Entries 41
Mean 21.89
Std Dev 0

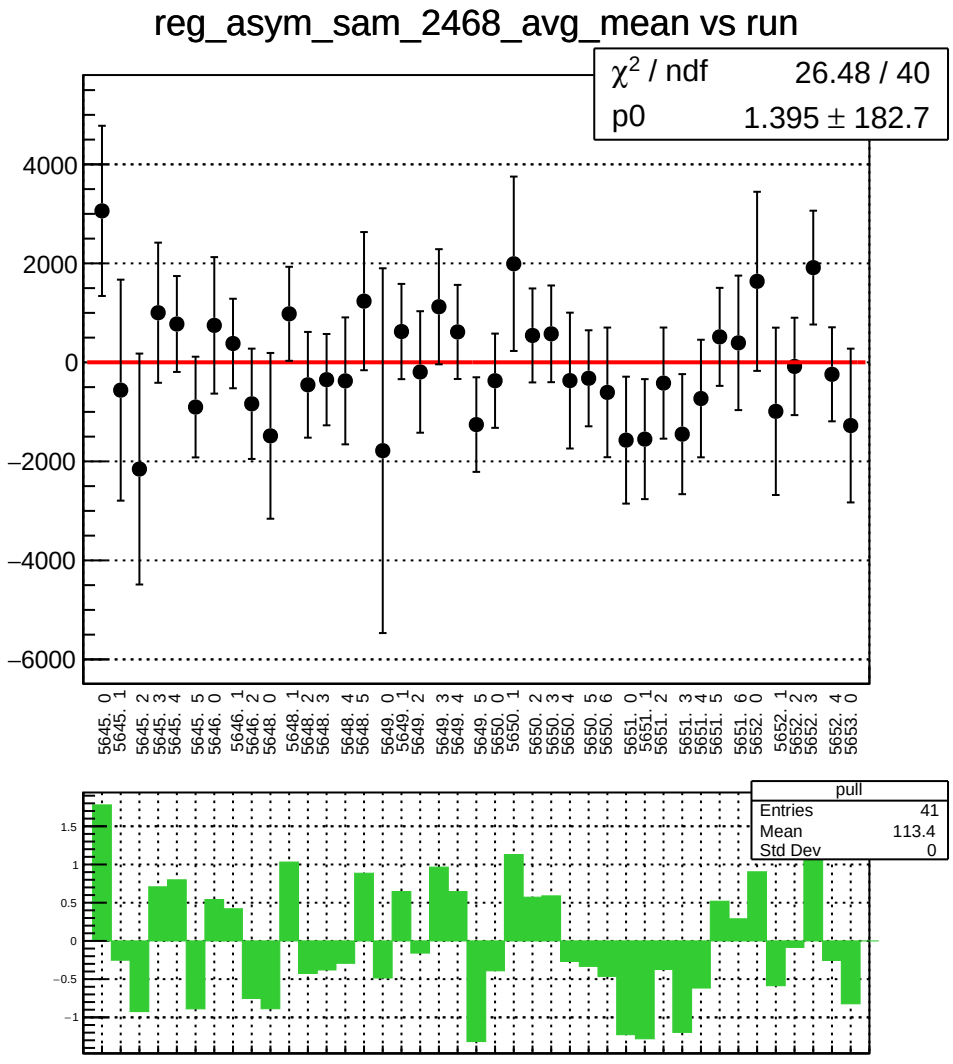

pull1D
Entries 41
Mean −0.03938
Std Dev 0.9335

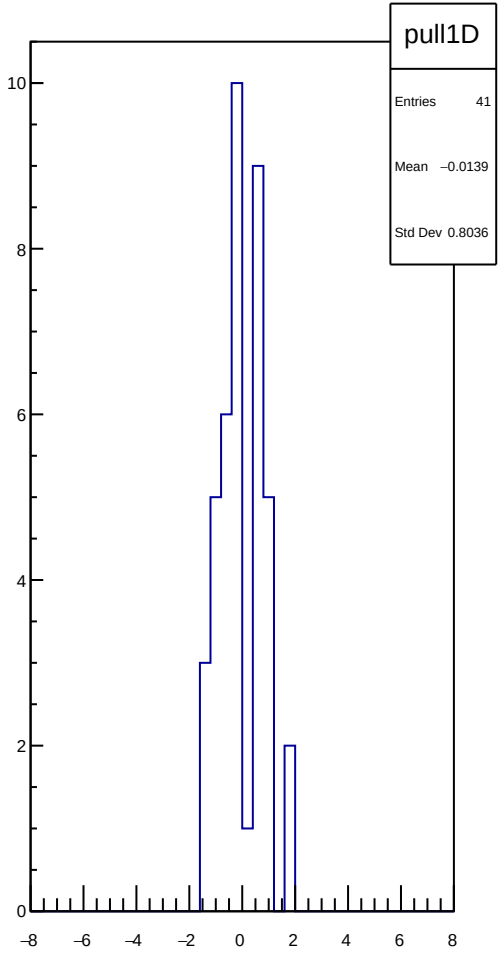

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 6.168e+04 / 40
p0 38.34 ± 0.04491
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

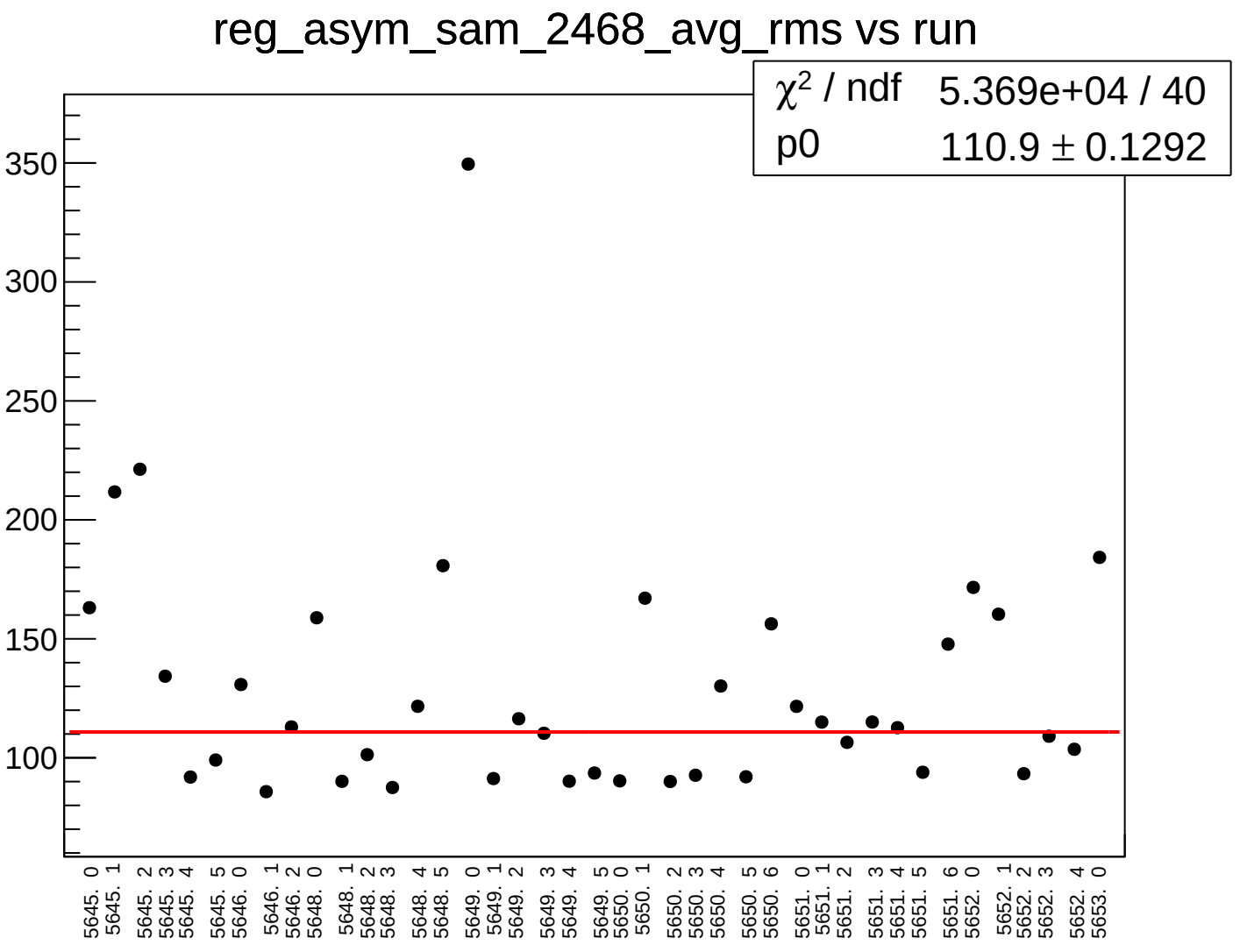

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.72 / 40
p0 5.103e−14 ± 6.248e−14
pull
Entries 41
Mean 28.28
Std Dev 11.79

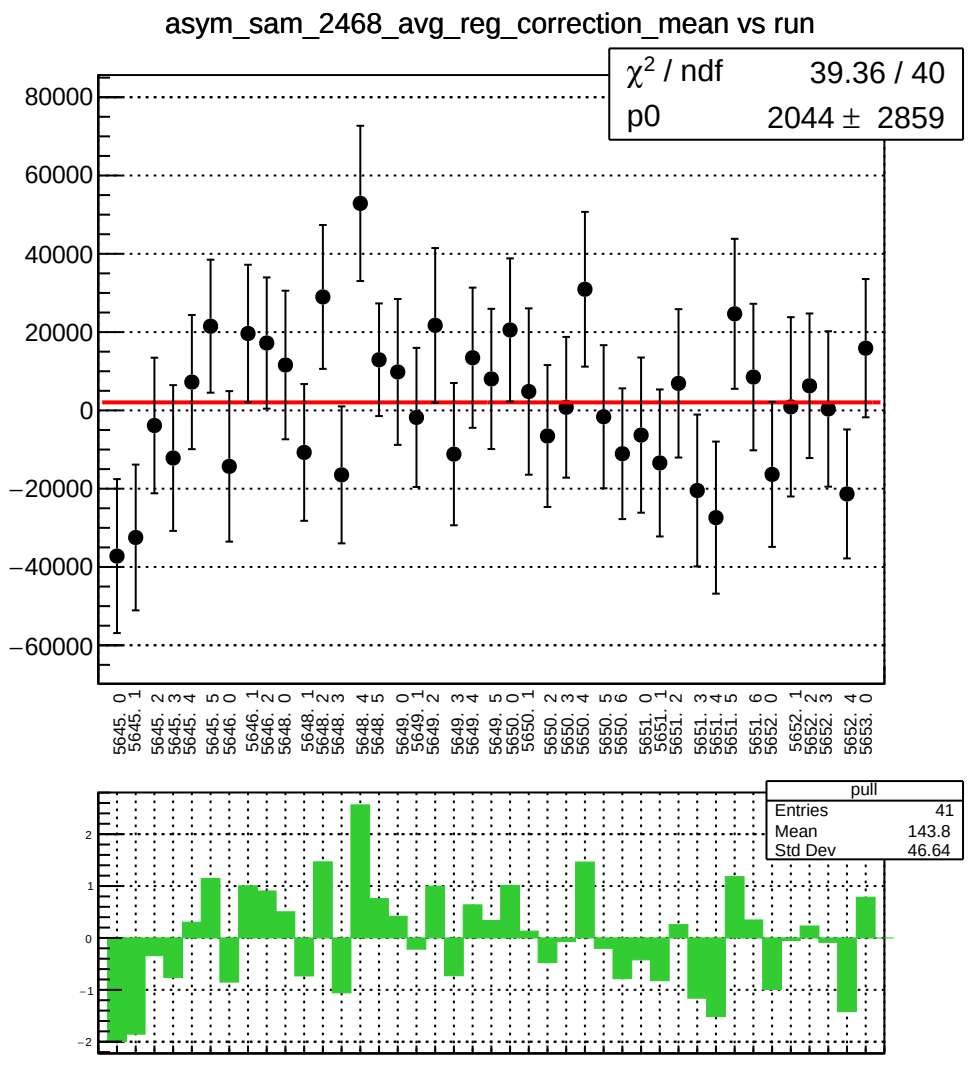

pull1D
Entries 41
Mean 0.07375
Std Dev 0.969

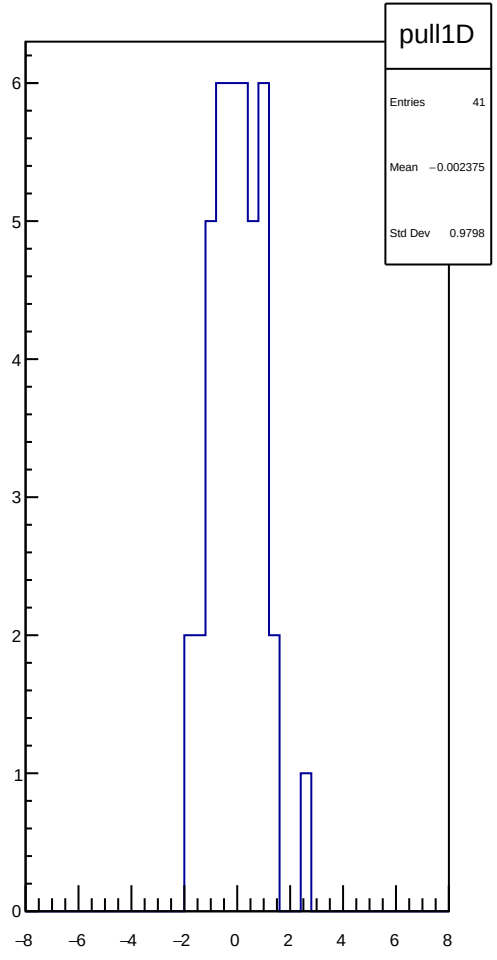

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.487e+05 / 40
p0 3.252e−11 ± 4.418e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

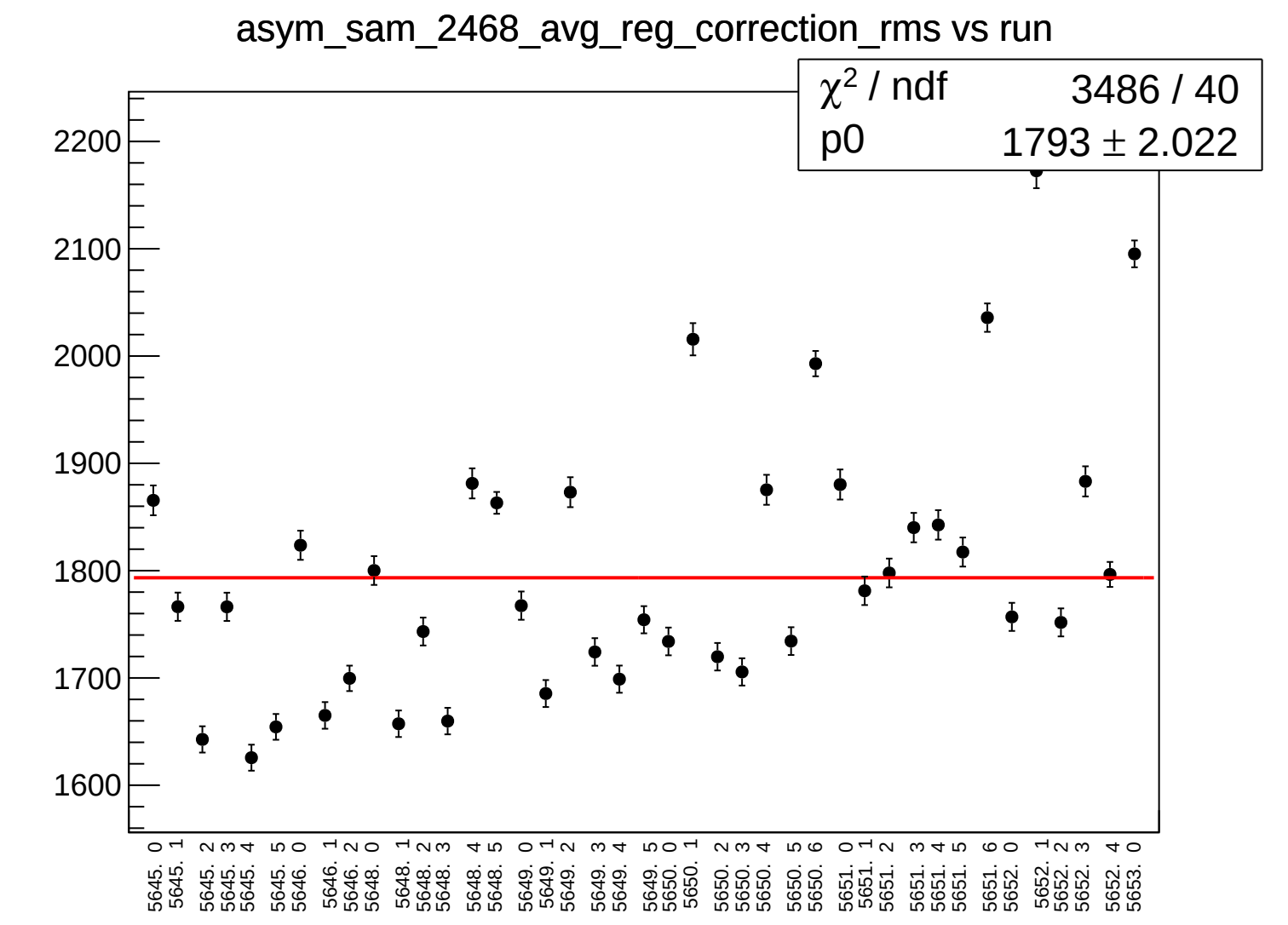

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 26.48 / 40
p0 1.395 ± 182.7
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 113.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

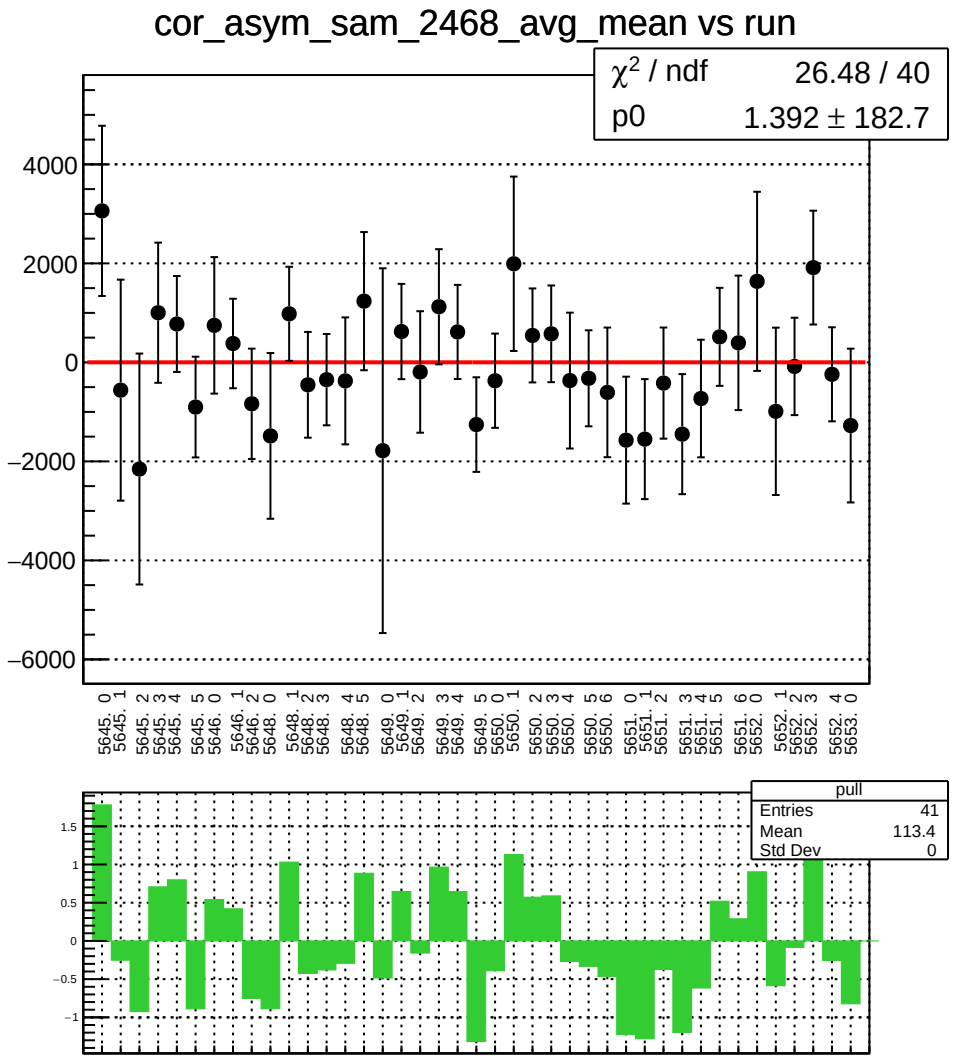

pull1D
Entries 41
Mean −0.0139
Std Dev 0.8036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

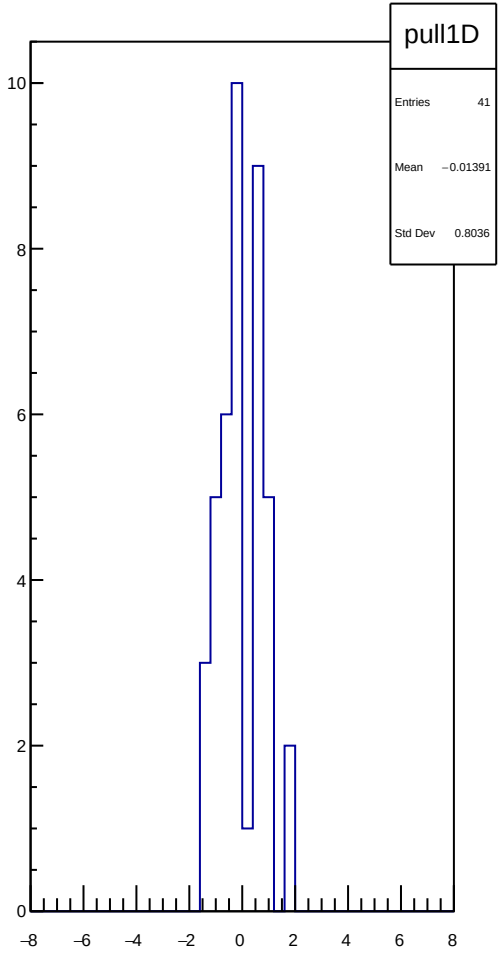

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 5.369e+04 / 40
p0 110.9 ± 0.1292
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

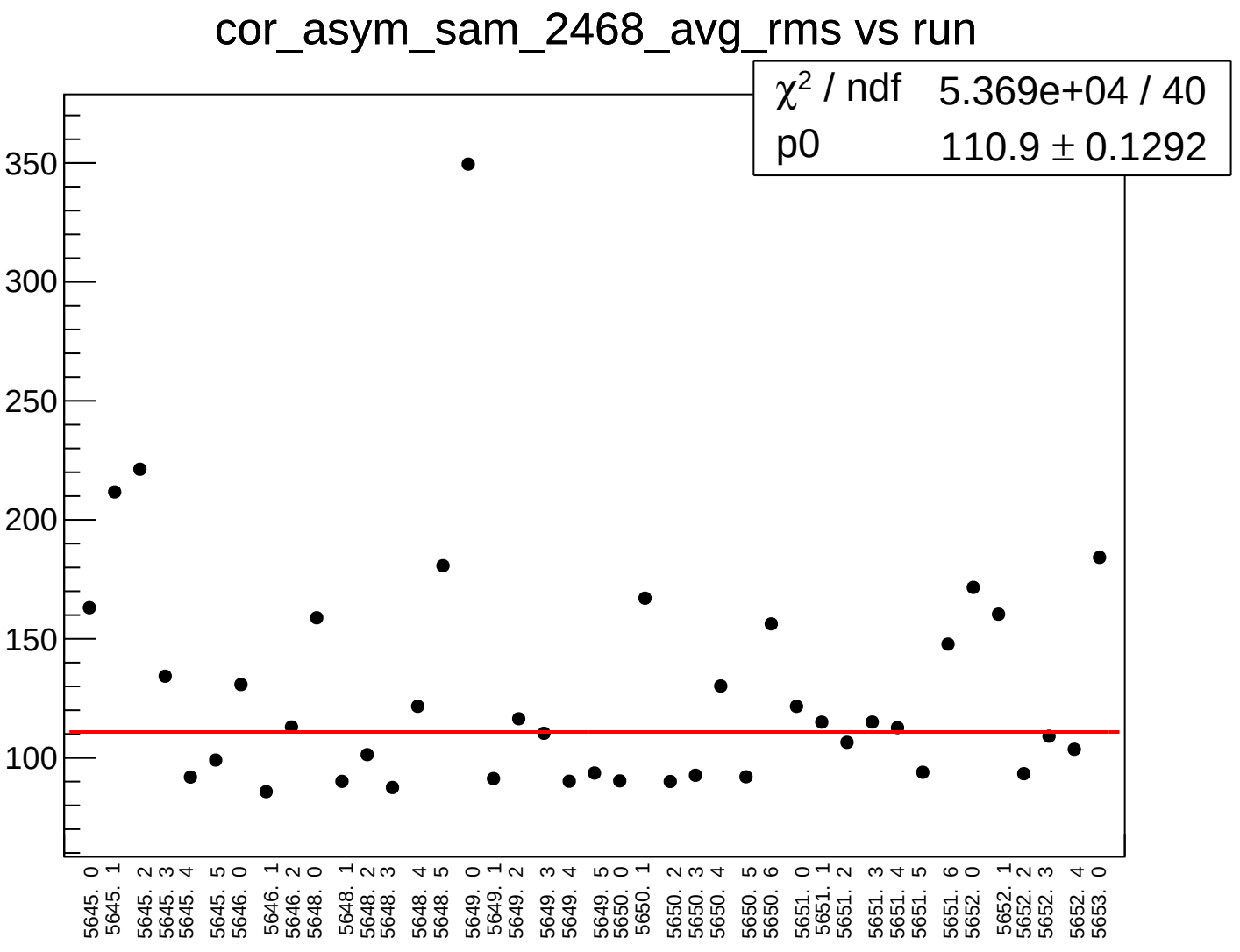

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 39.36 / 40
p0 2044 ± 2859
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 143.8
Std Dev 46.64
2
1
0
−1
−2

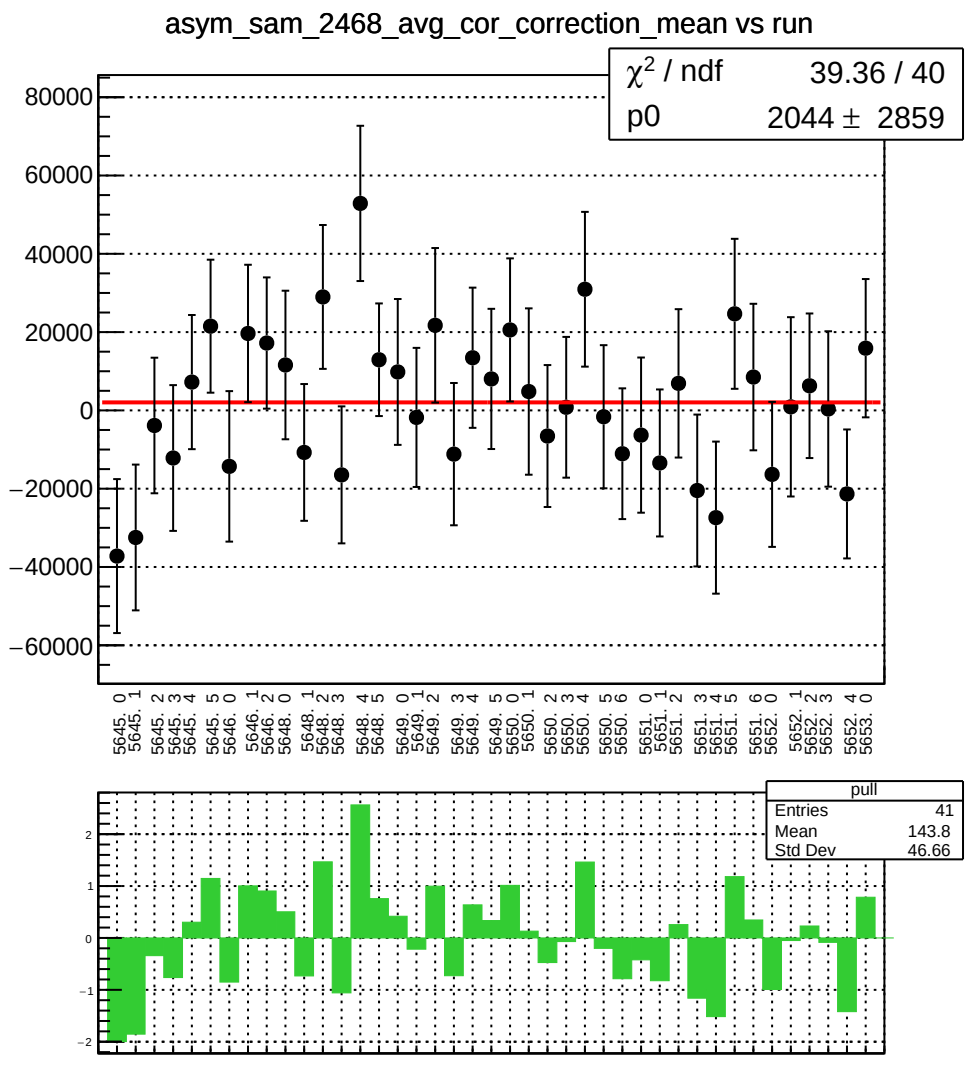

pull1D
Entries 41
Mean −0.002375
Std Dev 0.9798
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

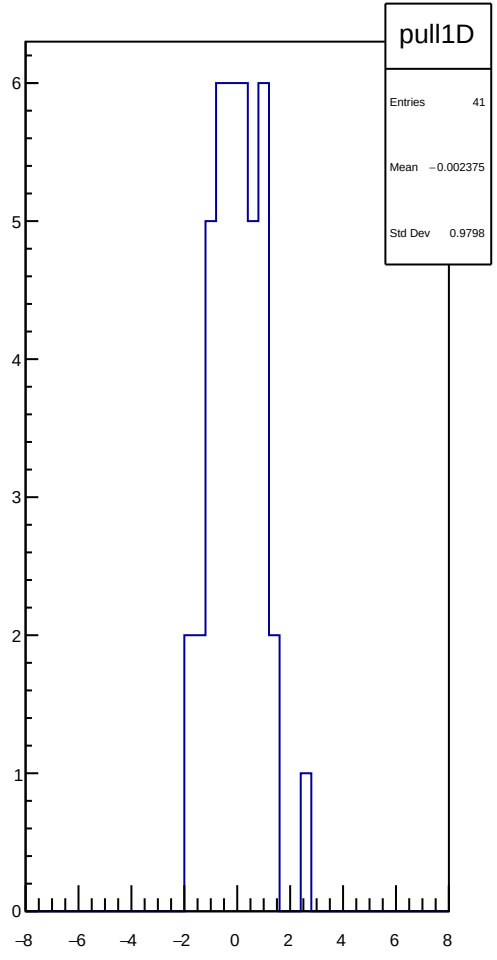

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3486 / 40
p0 1793 ± 2.022
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

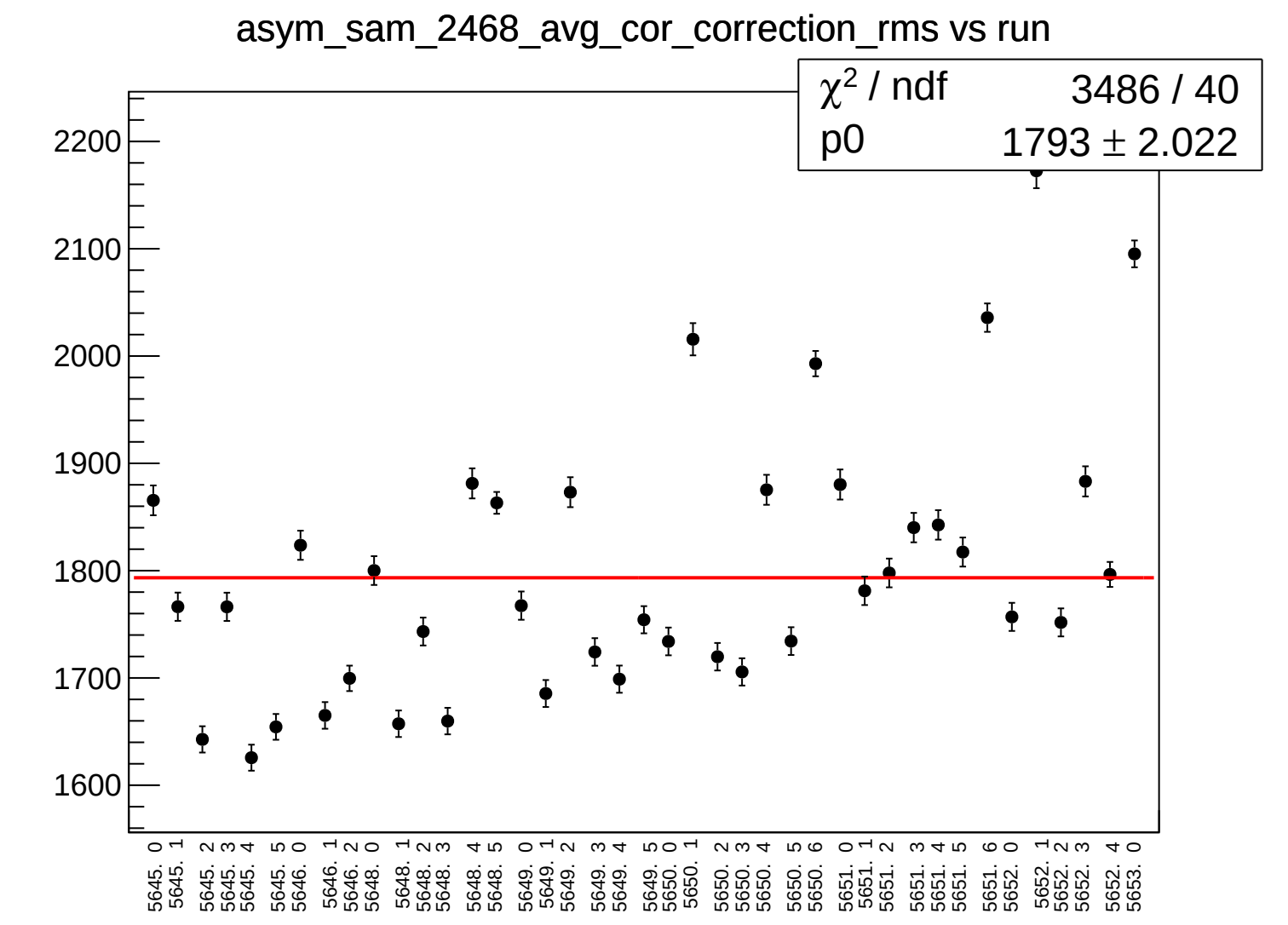

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 26.48 / 40
p0 1.392 ± 182.7
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 113.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.01391
Std Dev 0.8036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5.369e+04 / 40
p0 110.9 ± 0.1292
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 39.36 / 40
p0 2044 ± 2859
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 143.8
Std Dev 46.66
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.002375
Std Dev 0.9798
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 3486 / 40
p0 1793 ± 2.022
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
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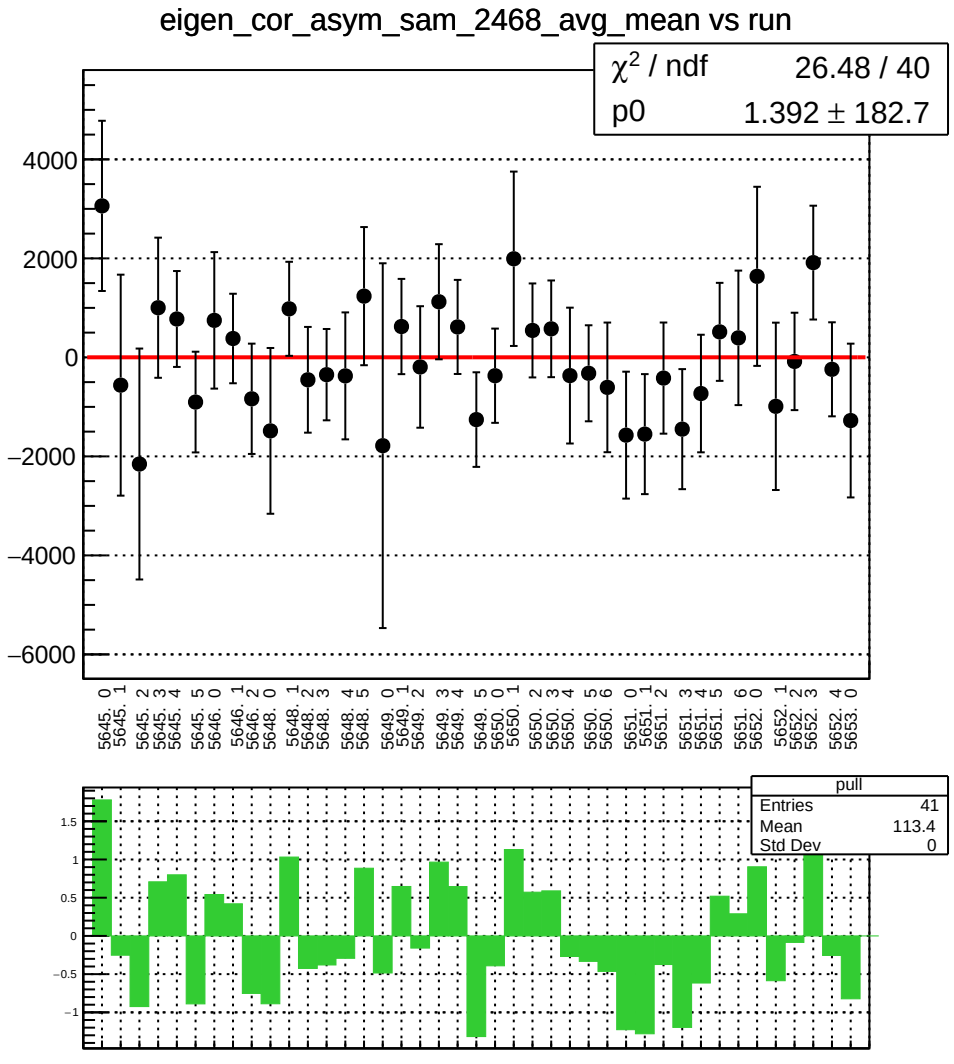
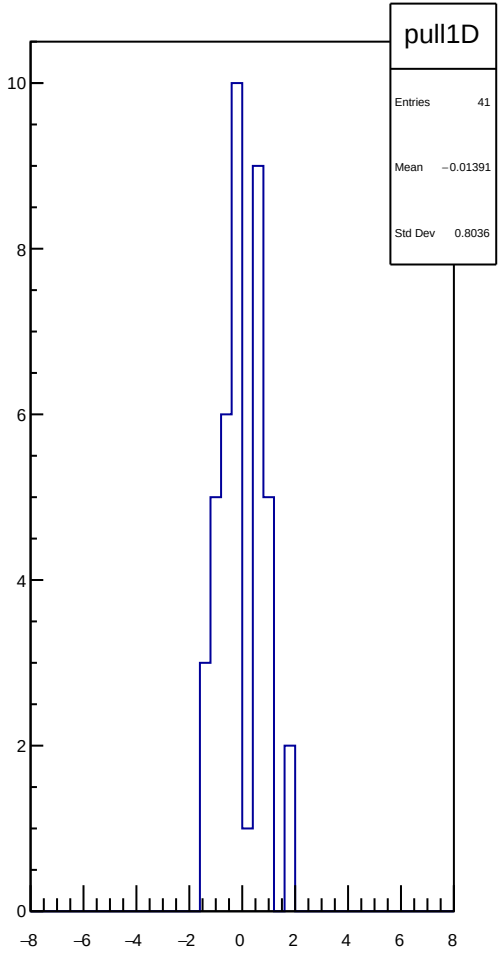
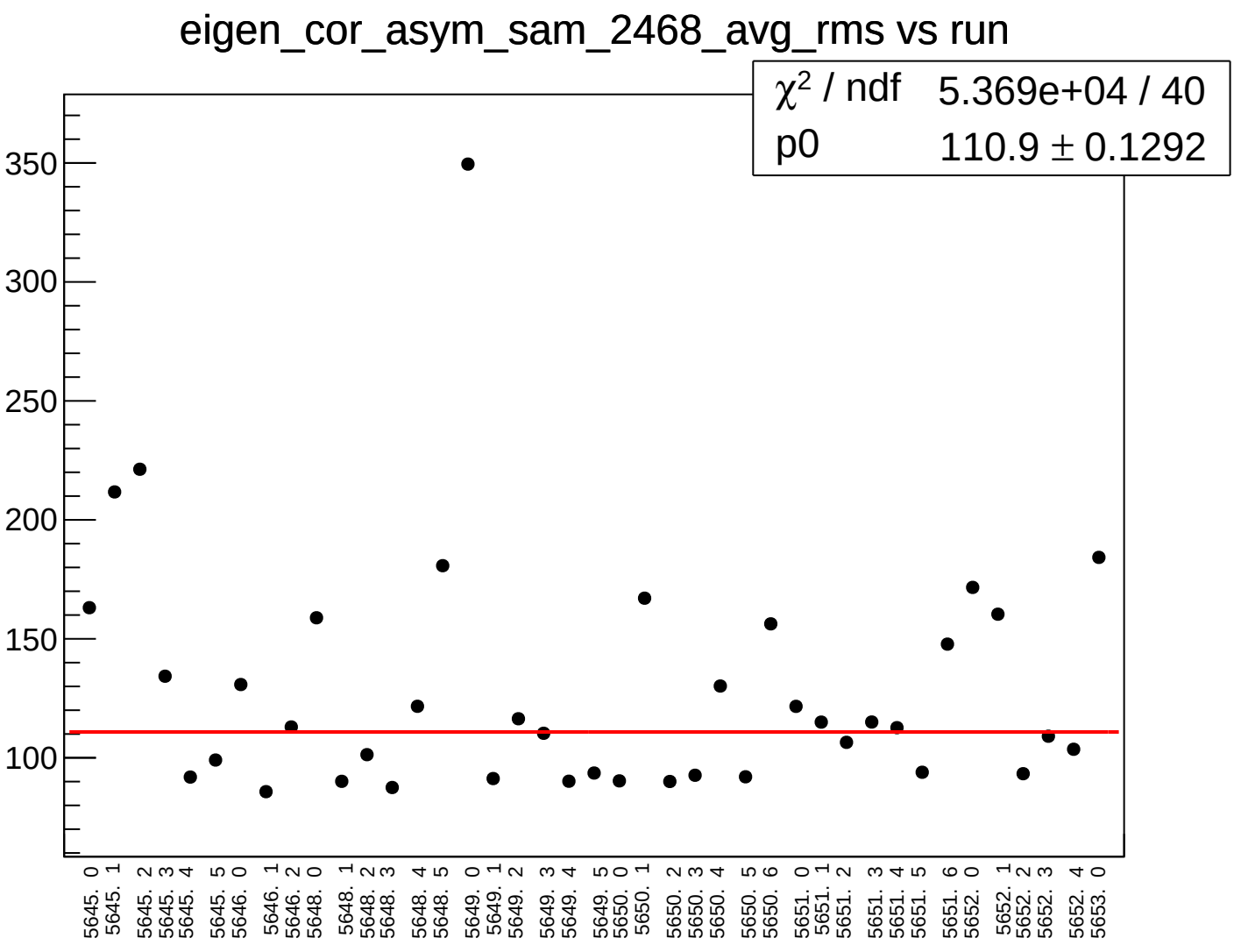
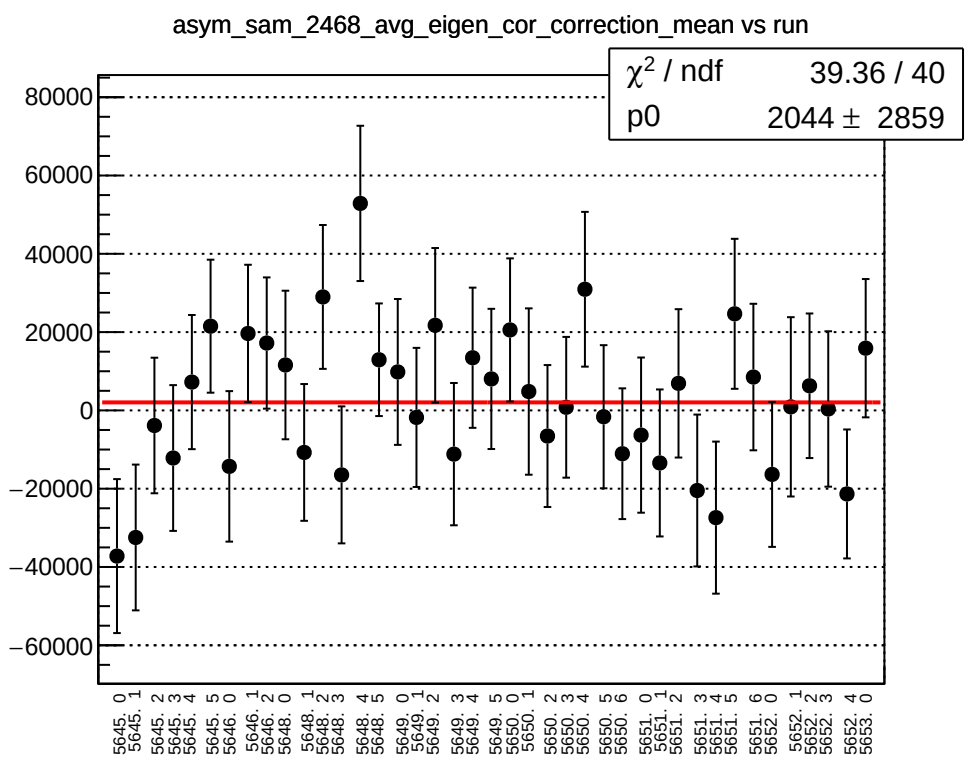
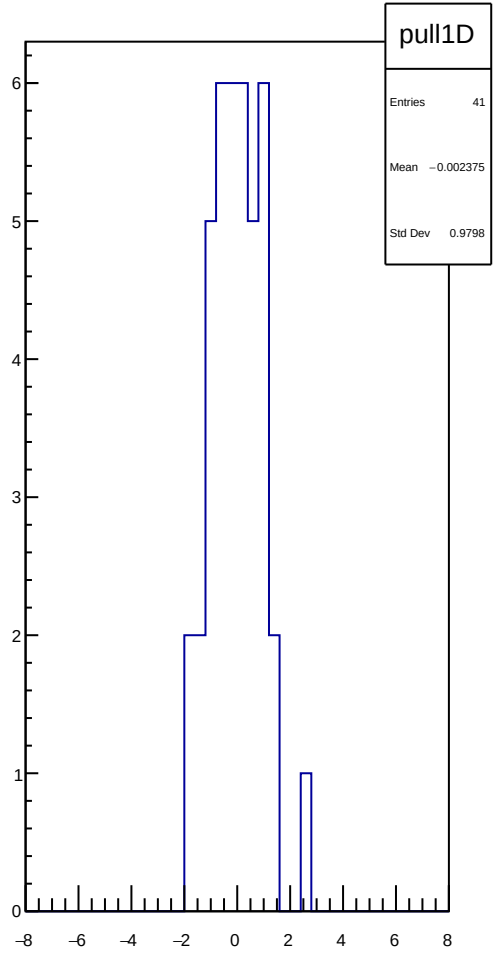
5652. 2
5652. 3
5652. 4
5653. 0


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 26.48 / 40
p0 1.392 ± 182.7
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 113.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 41
Mean −0.01391
Std Dev 0.8036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5.369e+04 / 40
p0 110.9 ± 0.1292
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.36 / 40
p0 2044 ± 2859
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 143.8
Std Dev 46.66
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.002375
Std Dev 0.9798
6
5
4
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−4
−2
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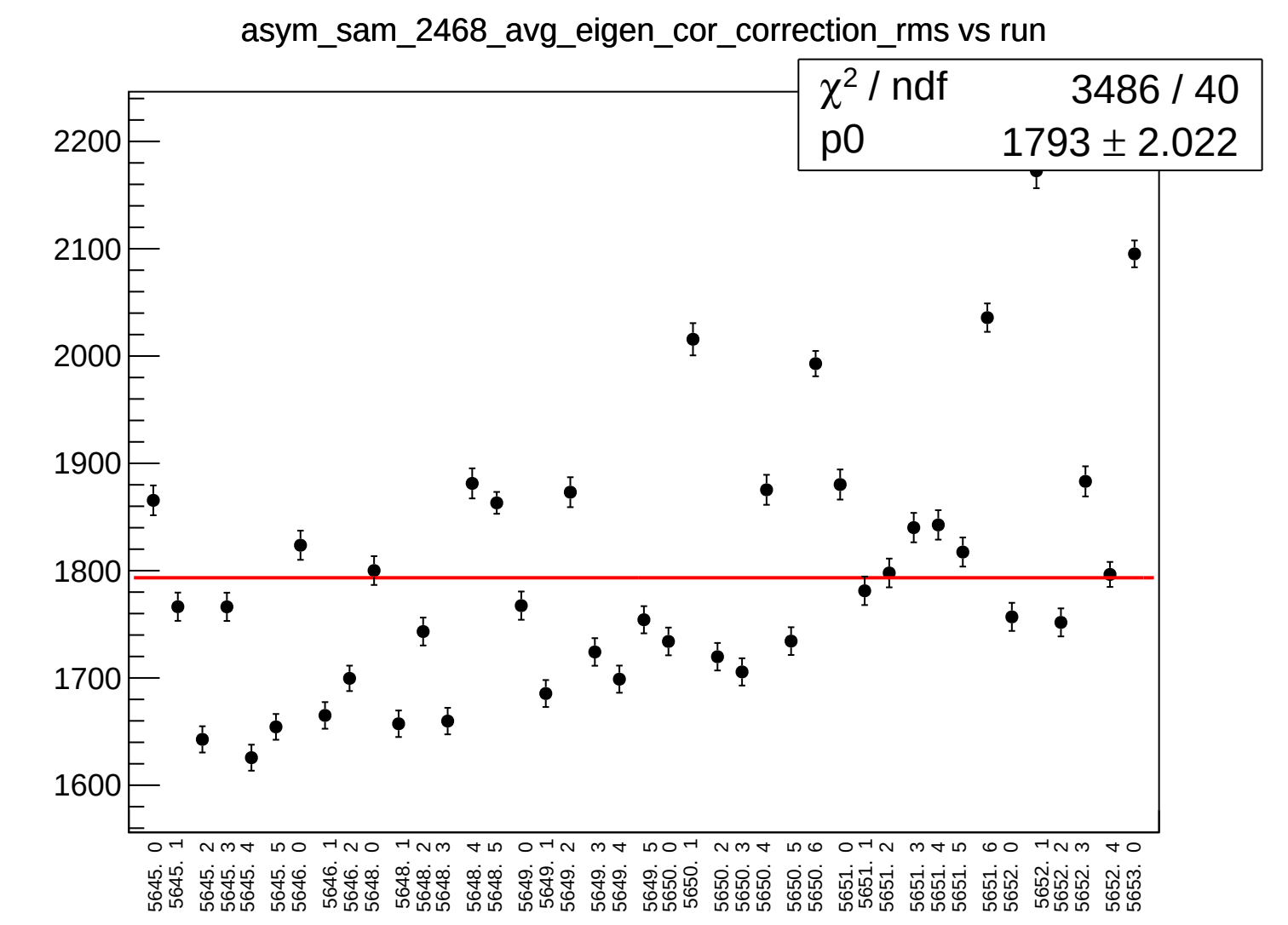
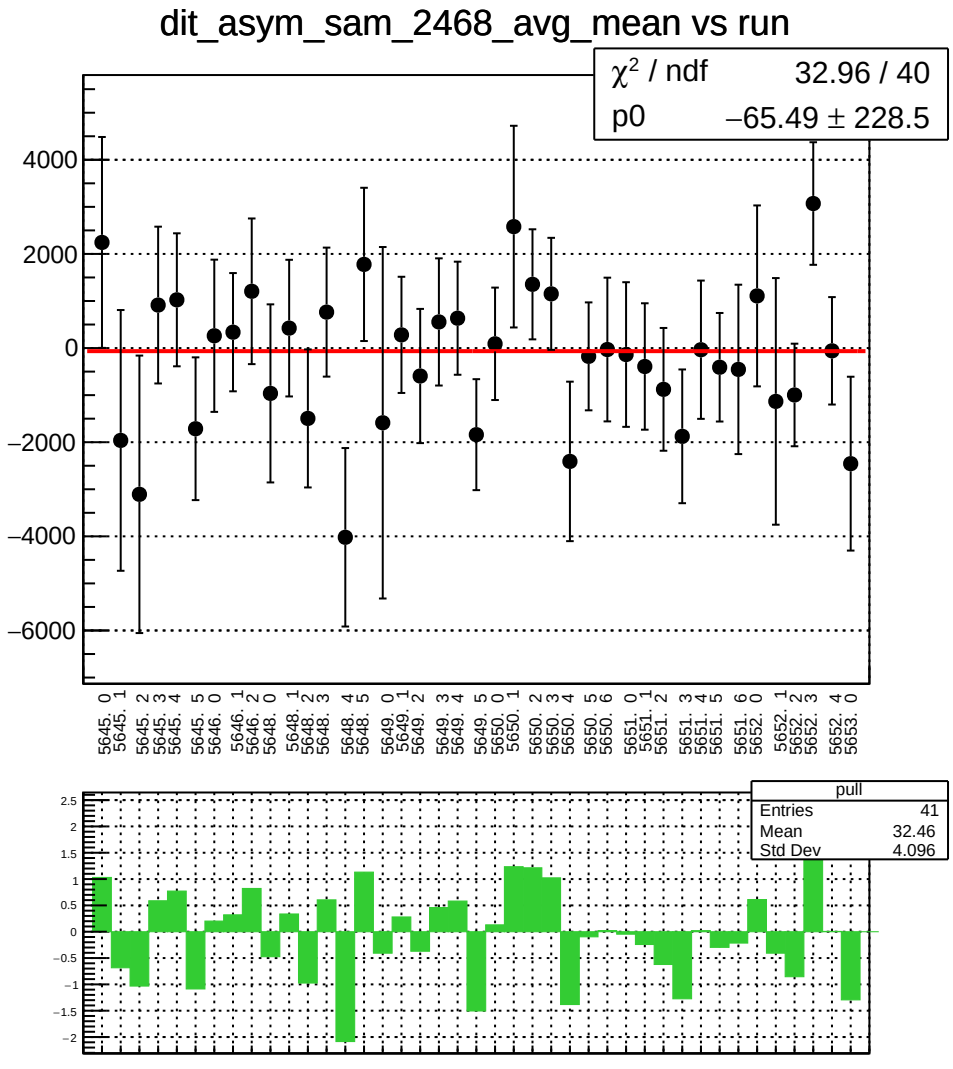
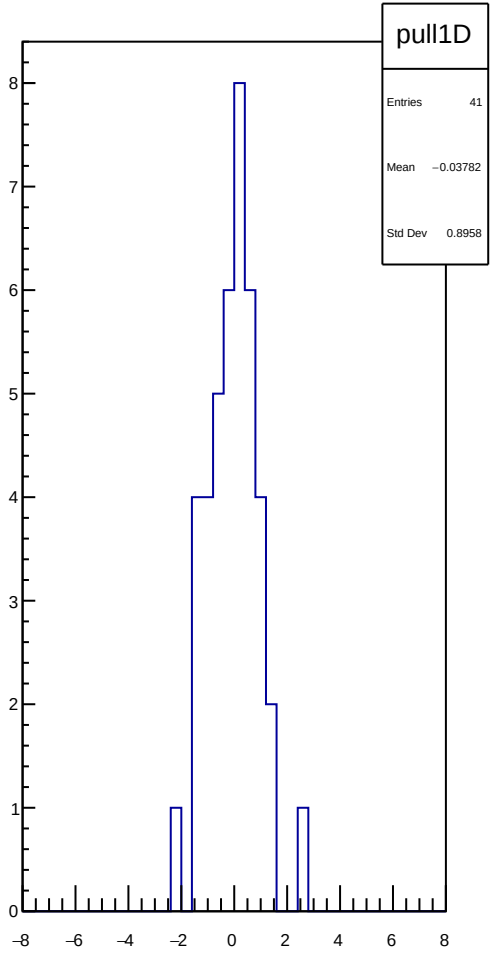
2
4
6
8


asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 3486 / 40
p0 1793 ± 2.022
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


dit_asym_sam_2468_avg_mean vs run
χ² / ndf 32.96 / 40
p0 −65.49 ± 228.5
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.46
Std Dev 4.096
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.03782
Std Dev 0.8958
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7
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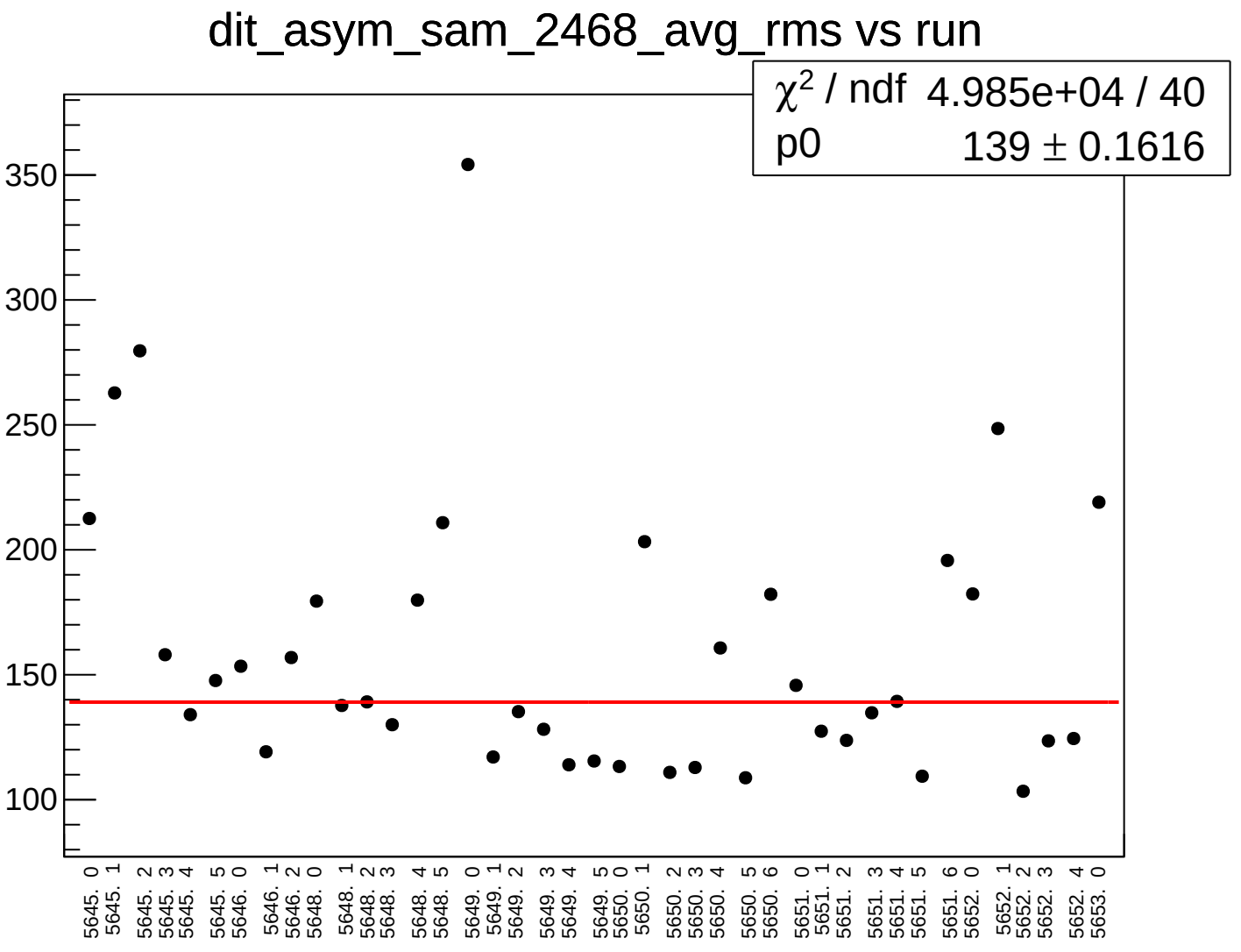
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.985e+04 / 40
p0 139 ± 0.1616
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
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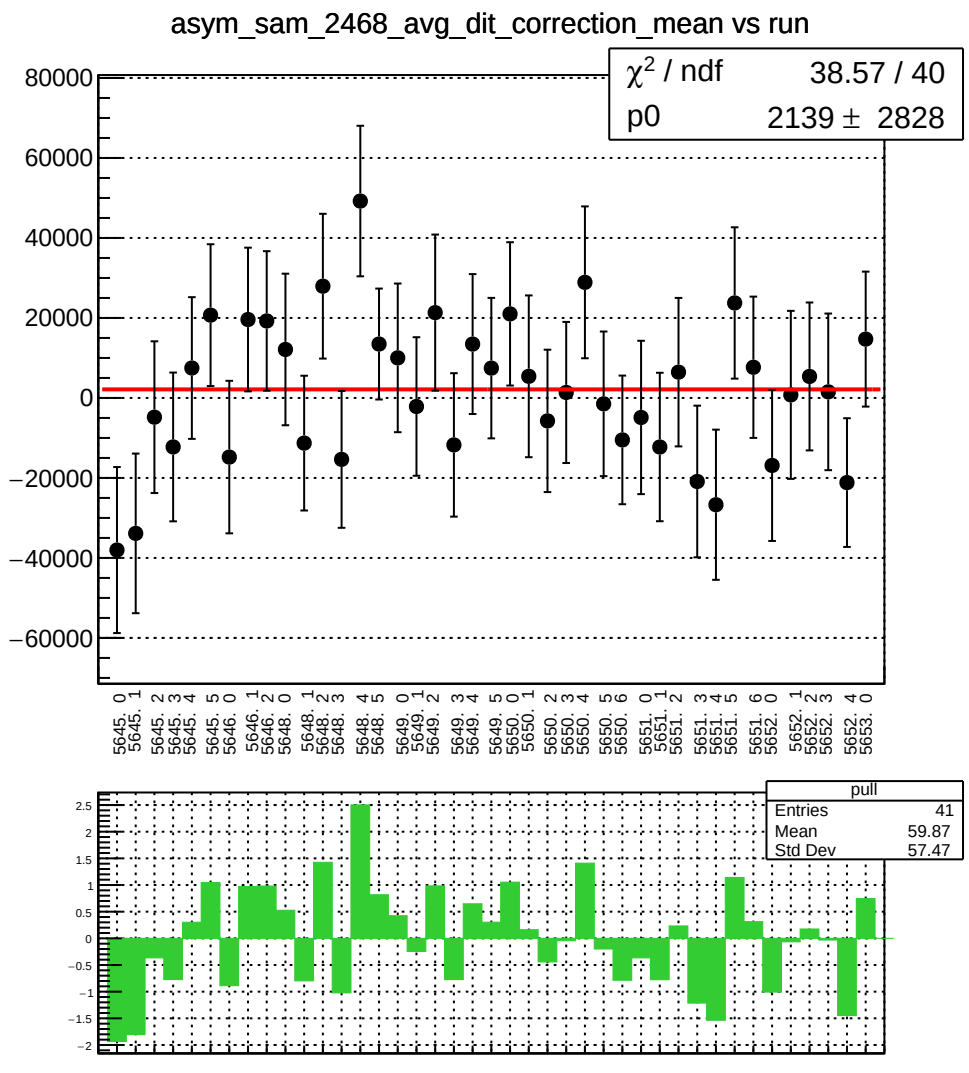
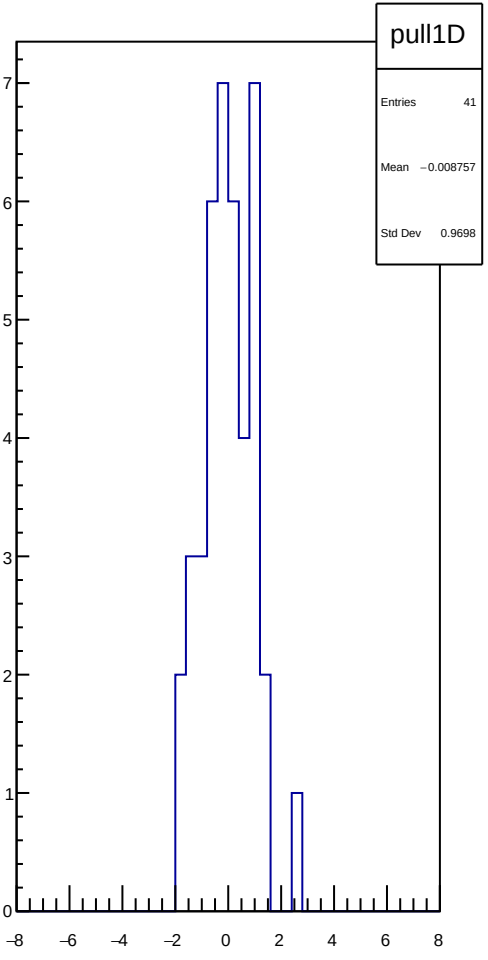
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 38.57 / 40
p0 2139 ± 2828
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 59.87
Std Dev 57.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.008757
Std Dev 0.9698
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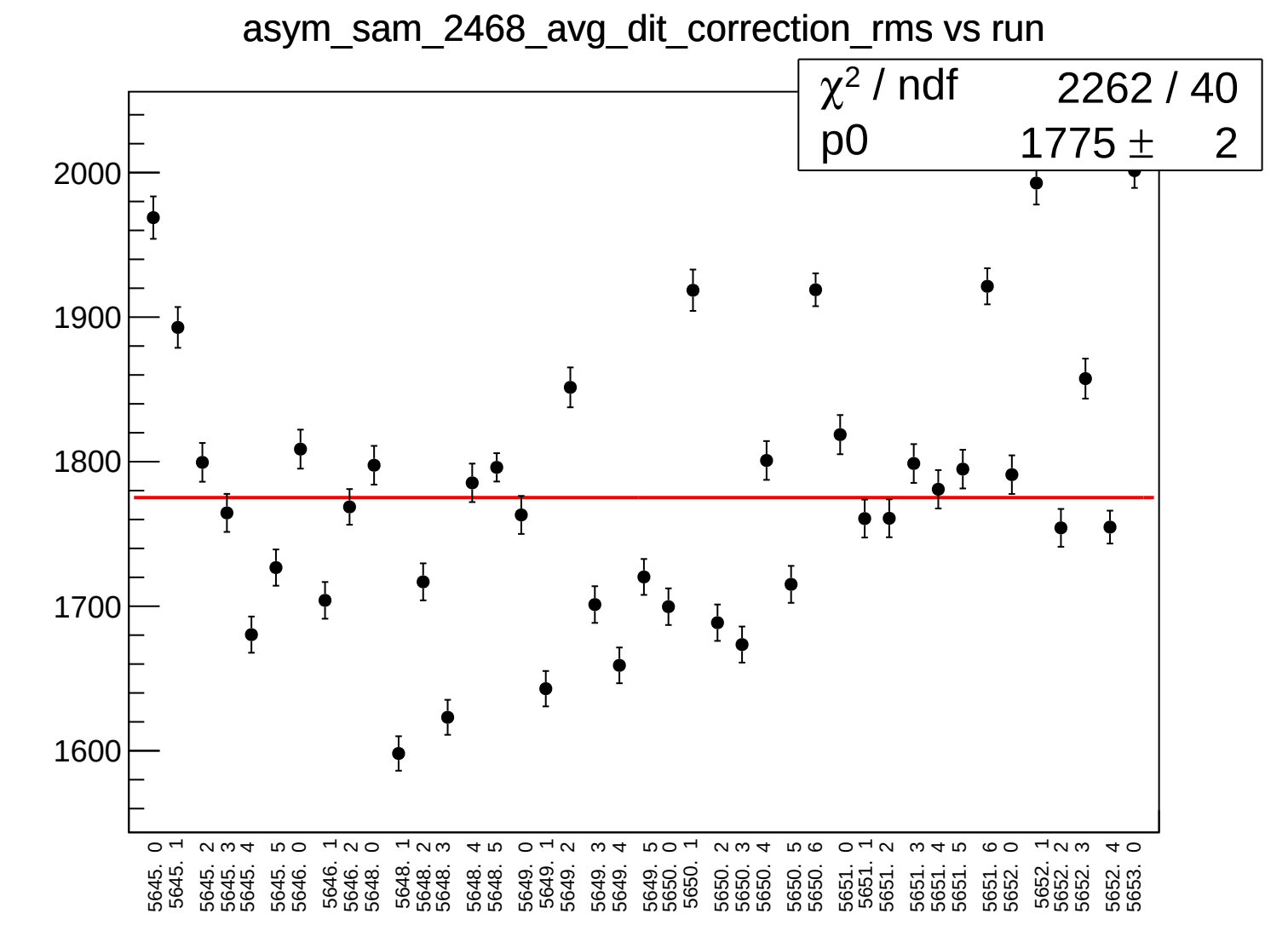
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2262 / 40
p0 1775 ± 2
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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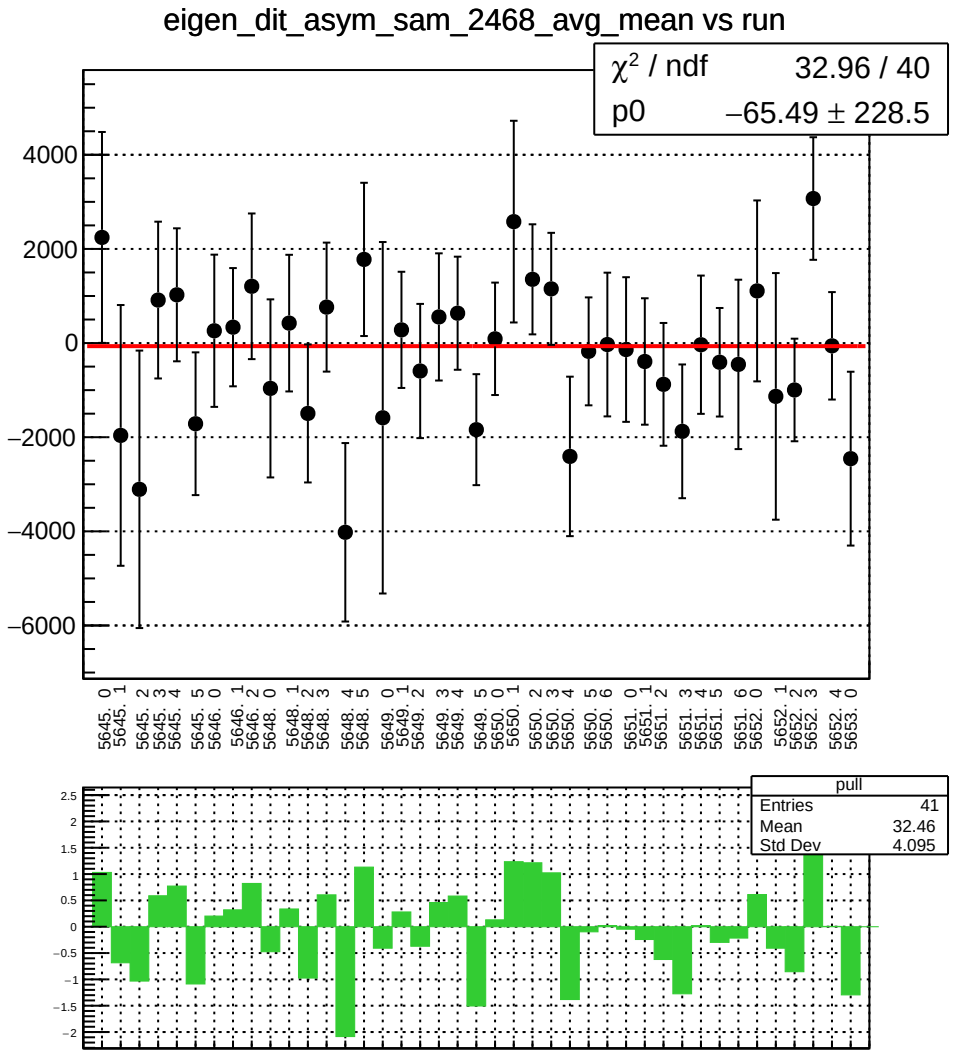
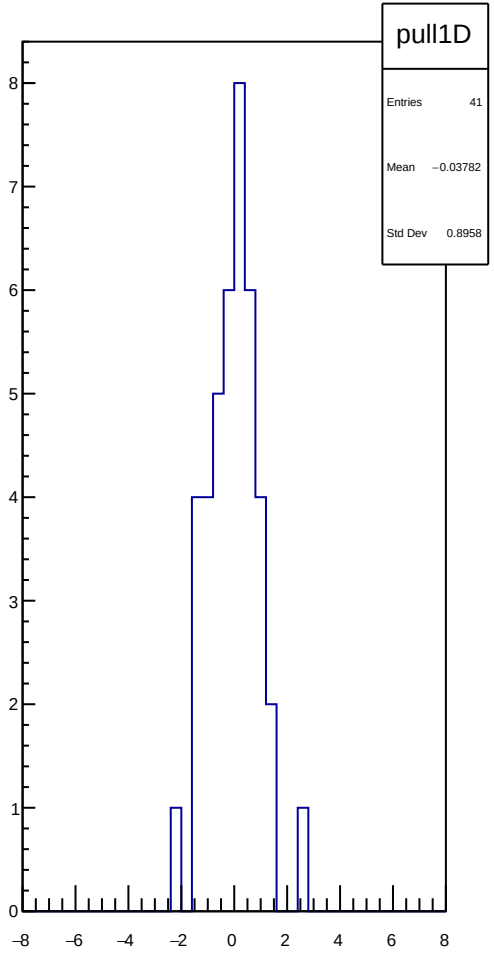
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 32.96 / 40
p0 −65.49 ± 228.5
4000
2000
0
−2000
−4000
−6000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.46
Std Dev 4.095
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.03782
Std Dev 0.8958
8
7
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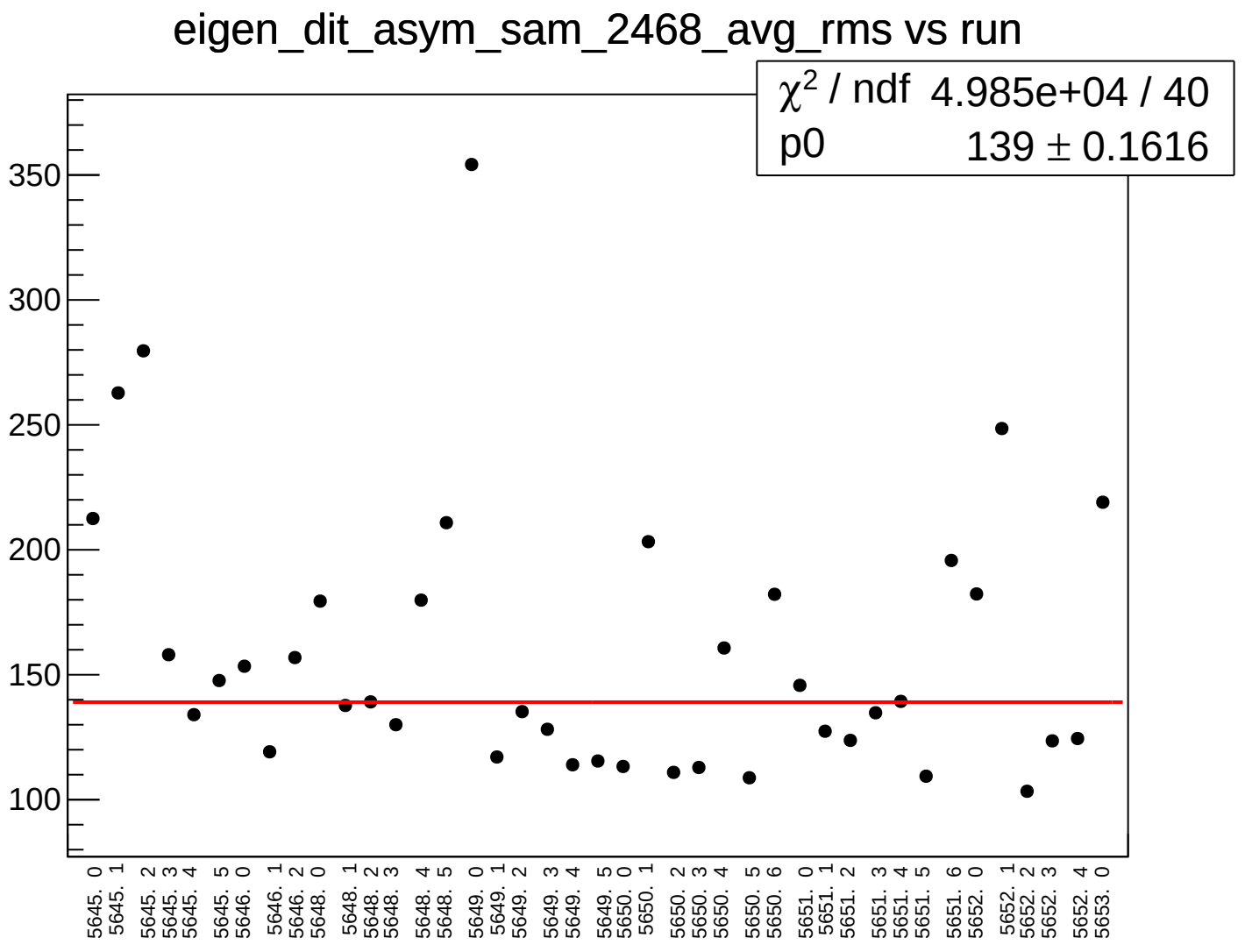
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 4.985e+04 / 40
p0 139 ± 0.1616
350
300
250
200
150
100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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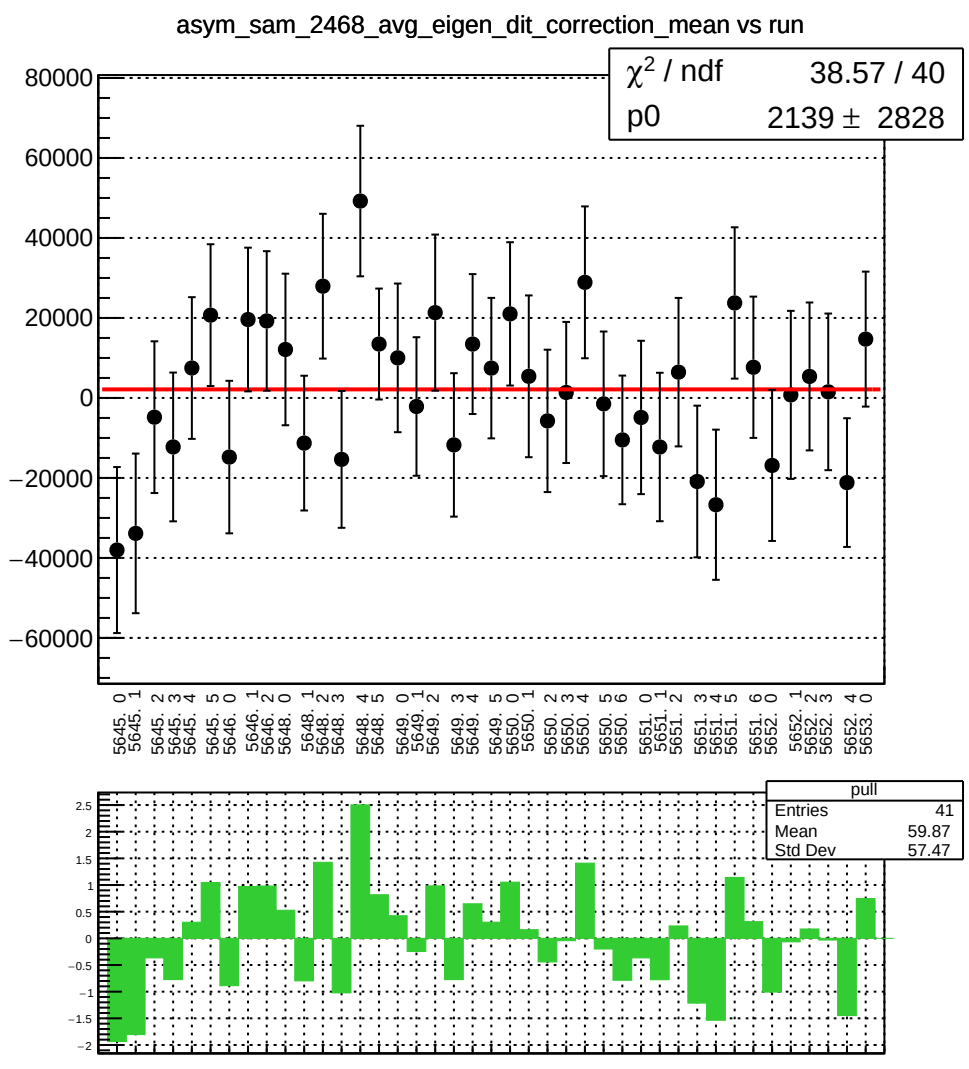
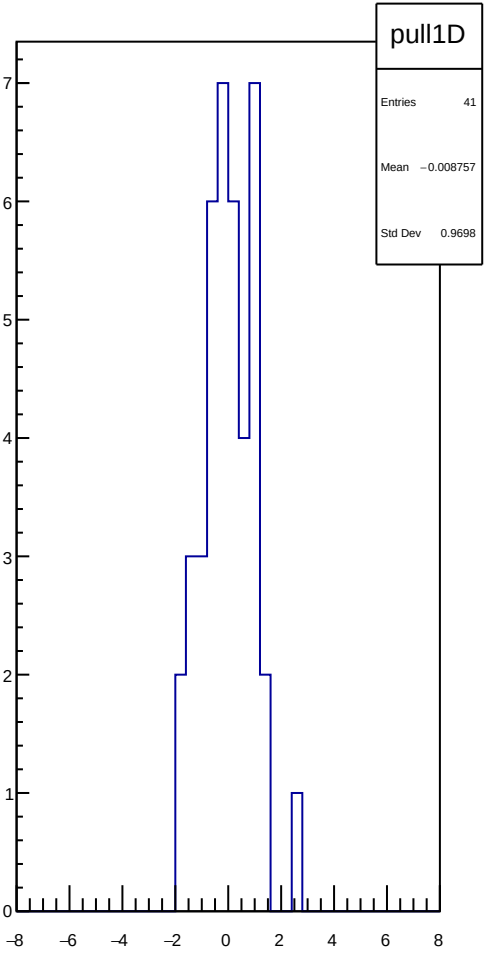
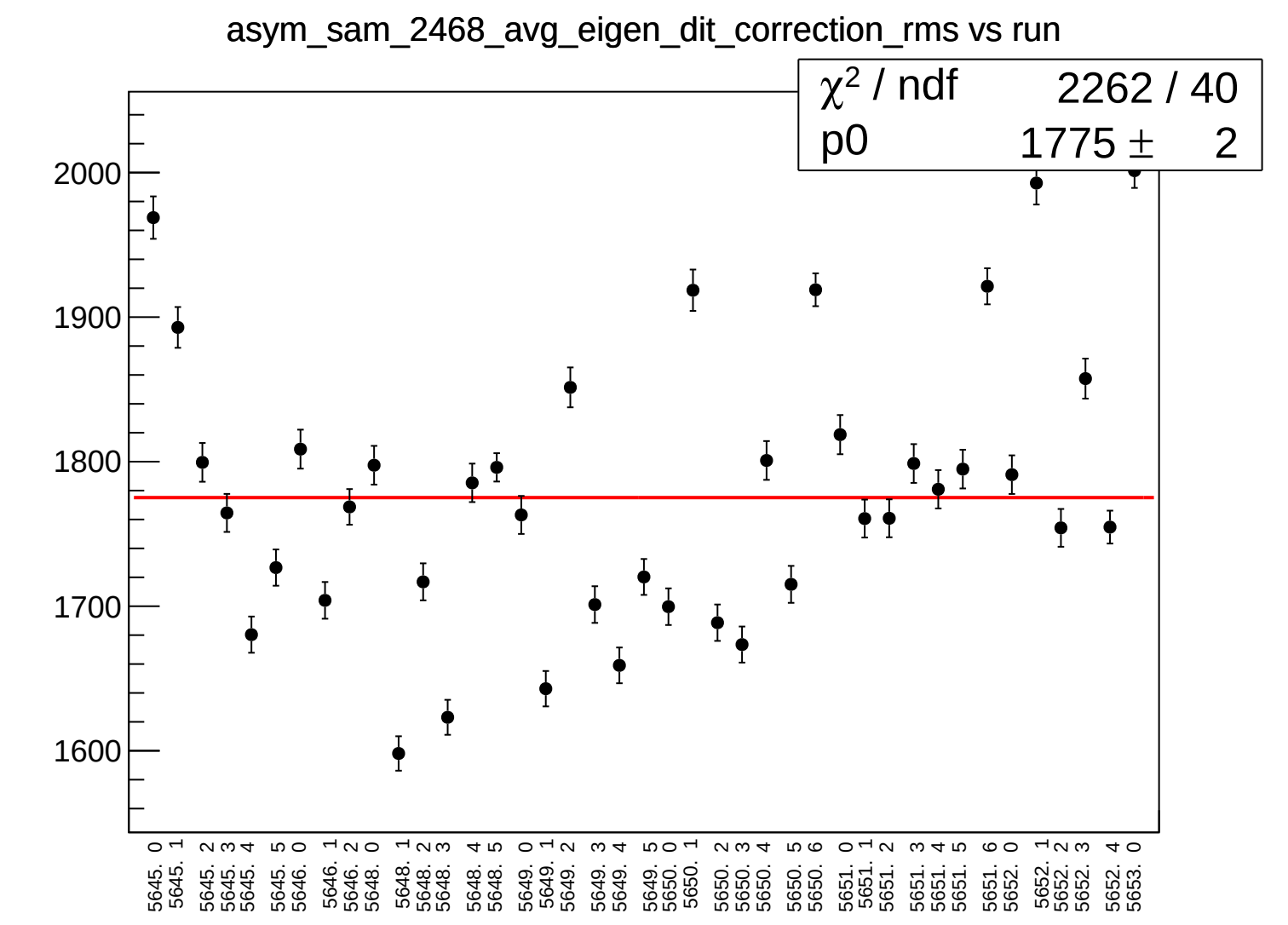
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 38.57 / 40
p0 2139 ± 2828
80000
60000
40000
20000
0
−20000
−40000
−60000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 59.87
Std Dev 57.47
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.008757
Std Dev 0.9698
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 2262 / 40
p0 1775 ± 2
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
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5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
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5652. 1
5652. 2
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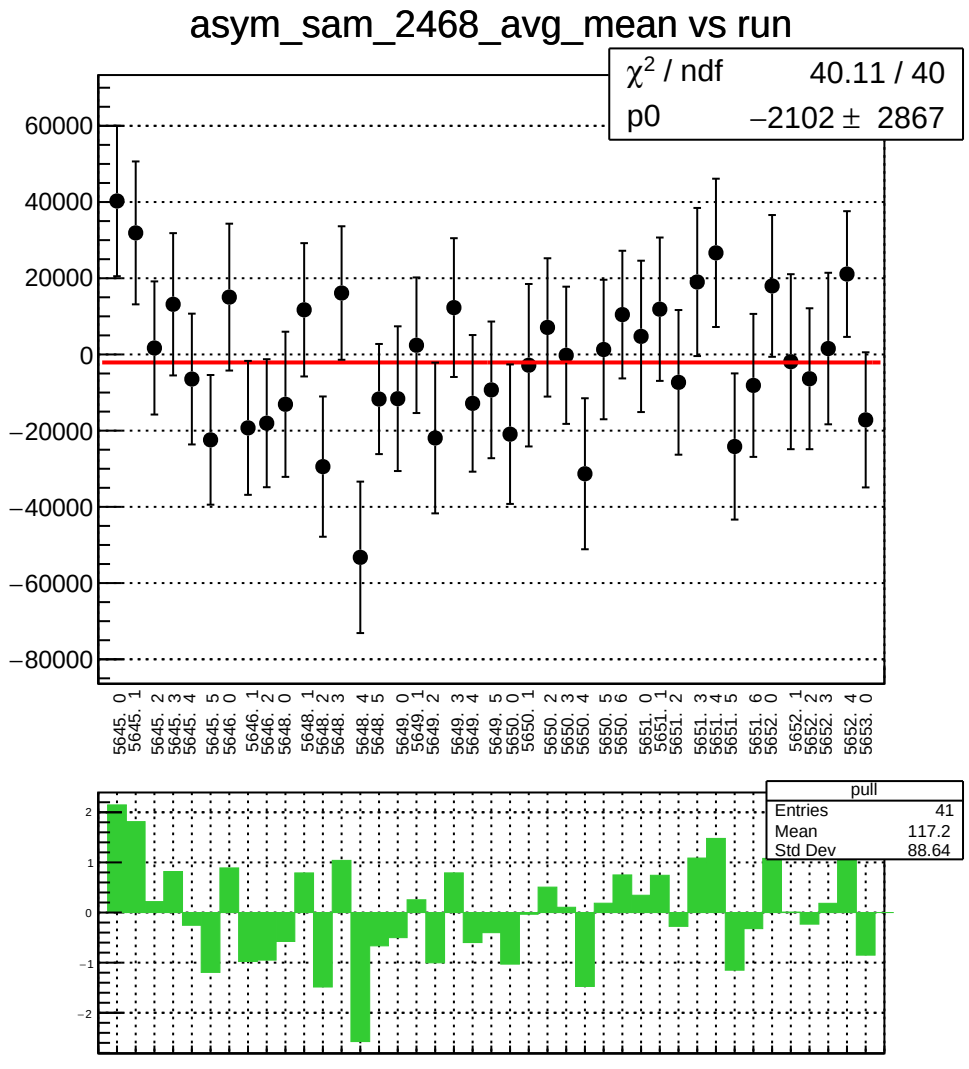
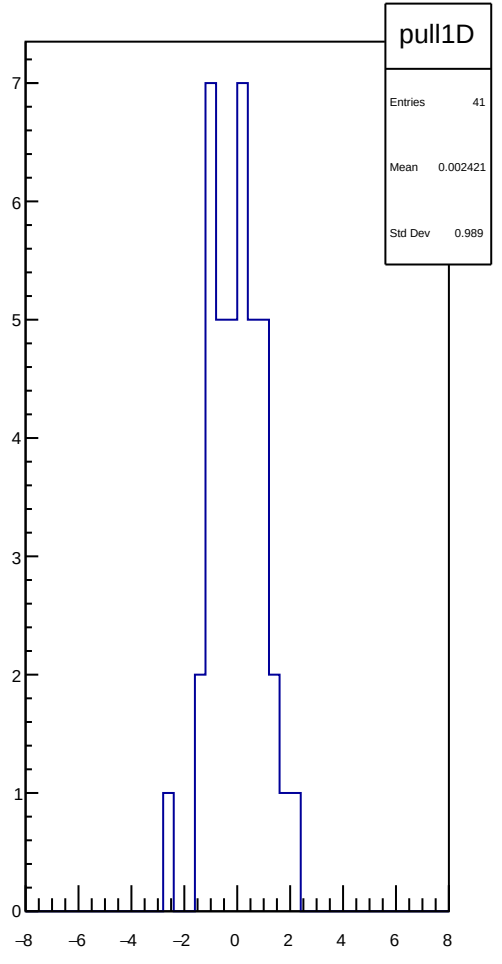
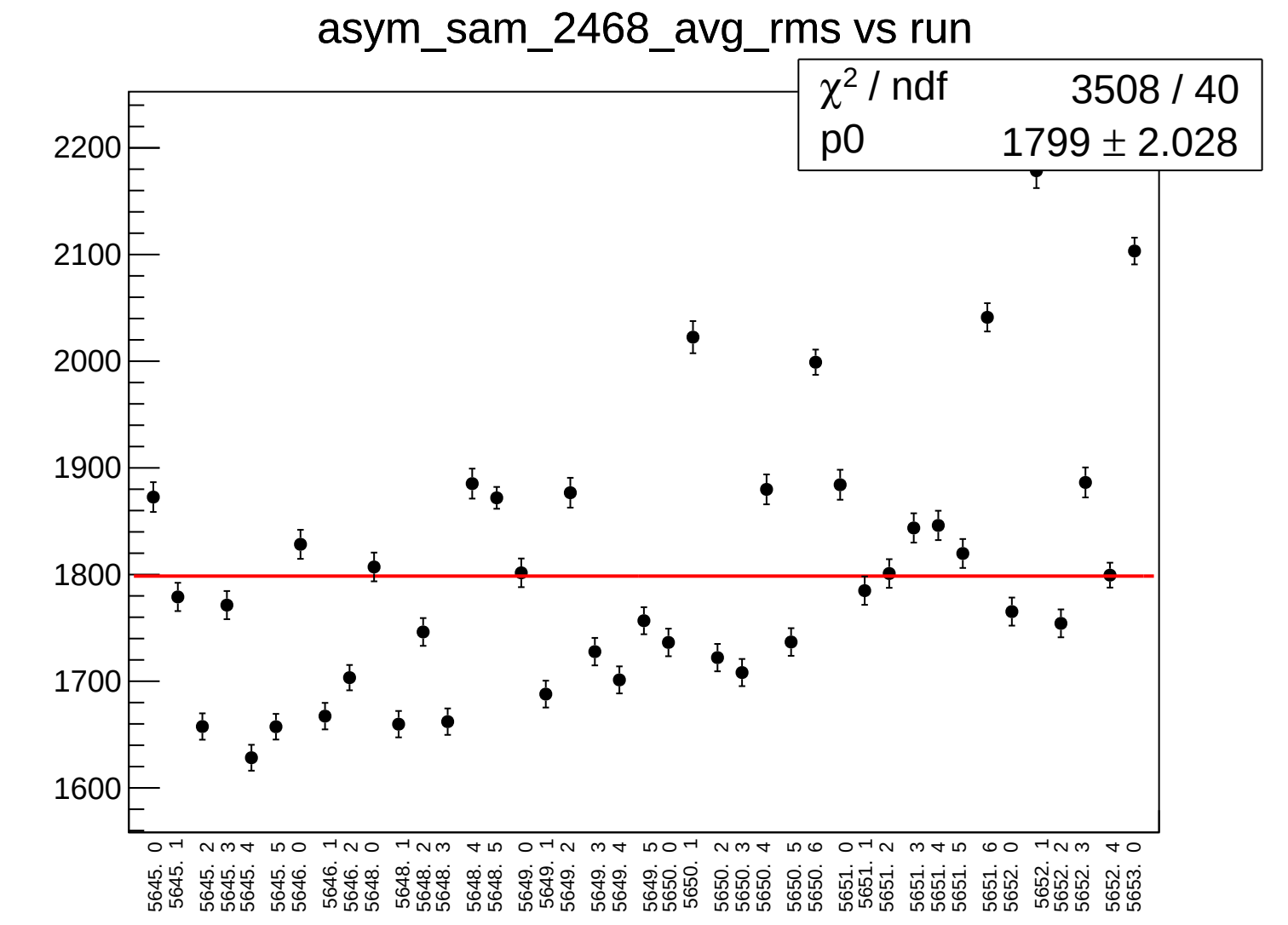

asym_sam_2468_avg_mean vs run
χ² / ndf 40.11 / 40
p0 −2102 ± 2867
60000
40000
20000
0
−20000
−40000
−60000
−80000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 117.2
Std Dev 88.64
2
1
0
−1
−2


pull1D
Entries 41
Mean 0.002421
Std Dev 0.989
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 3508 / 40
p0 1799 ± 2.028
2200
2100
2000
1900
1800
1700
1600
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
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5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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5652. 2
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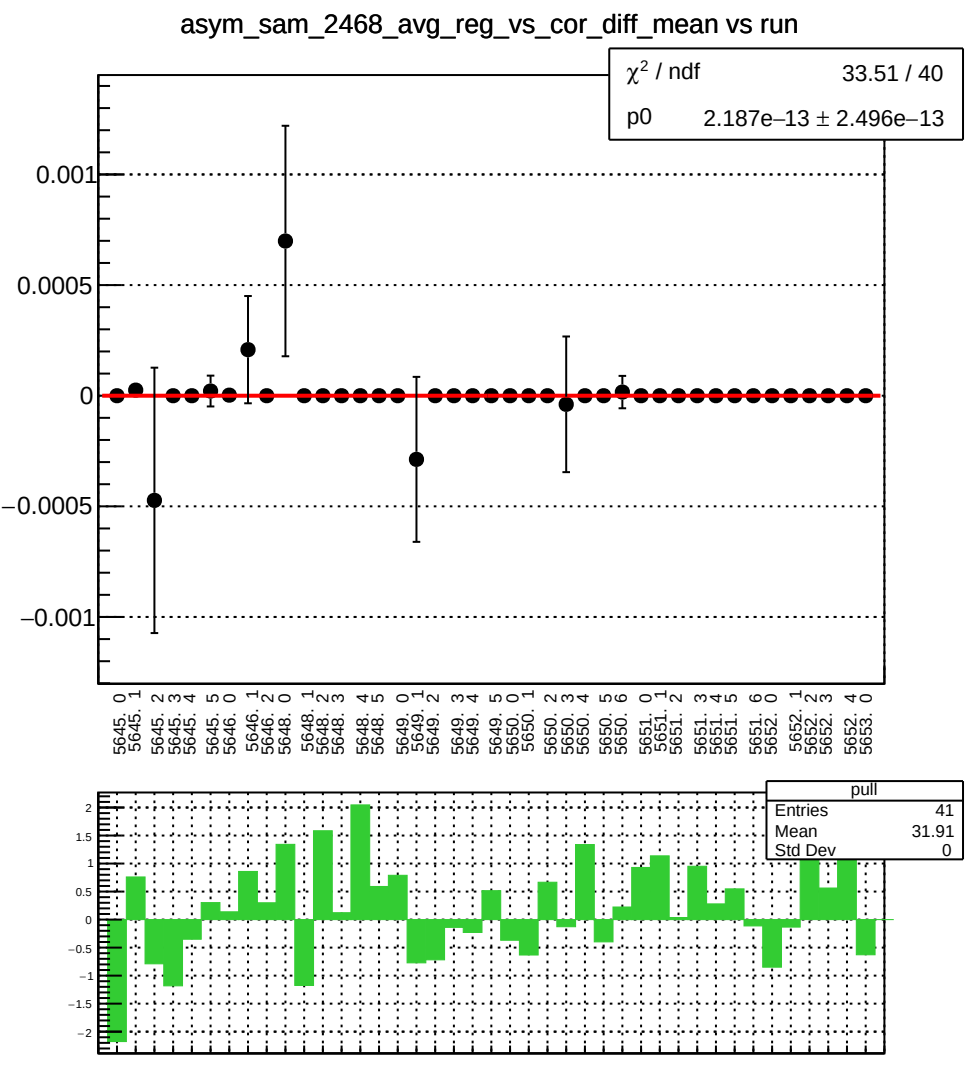
5653. 0


asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 33.51 / 40
p0 2.187e−13 ± 2.496e−13
0.001
0.0005
0
−0.0005
−0.001
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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5648. 4
5648. 5
5649. 0
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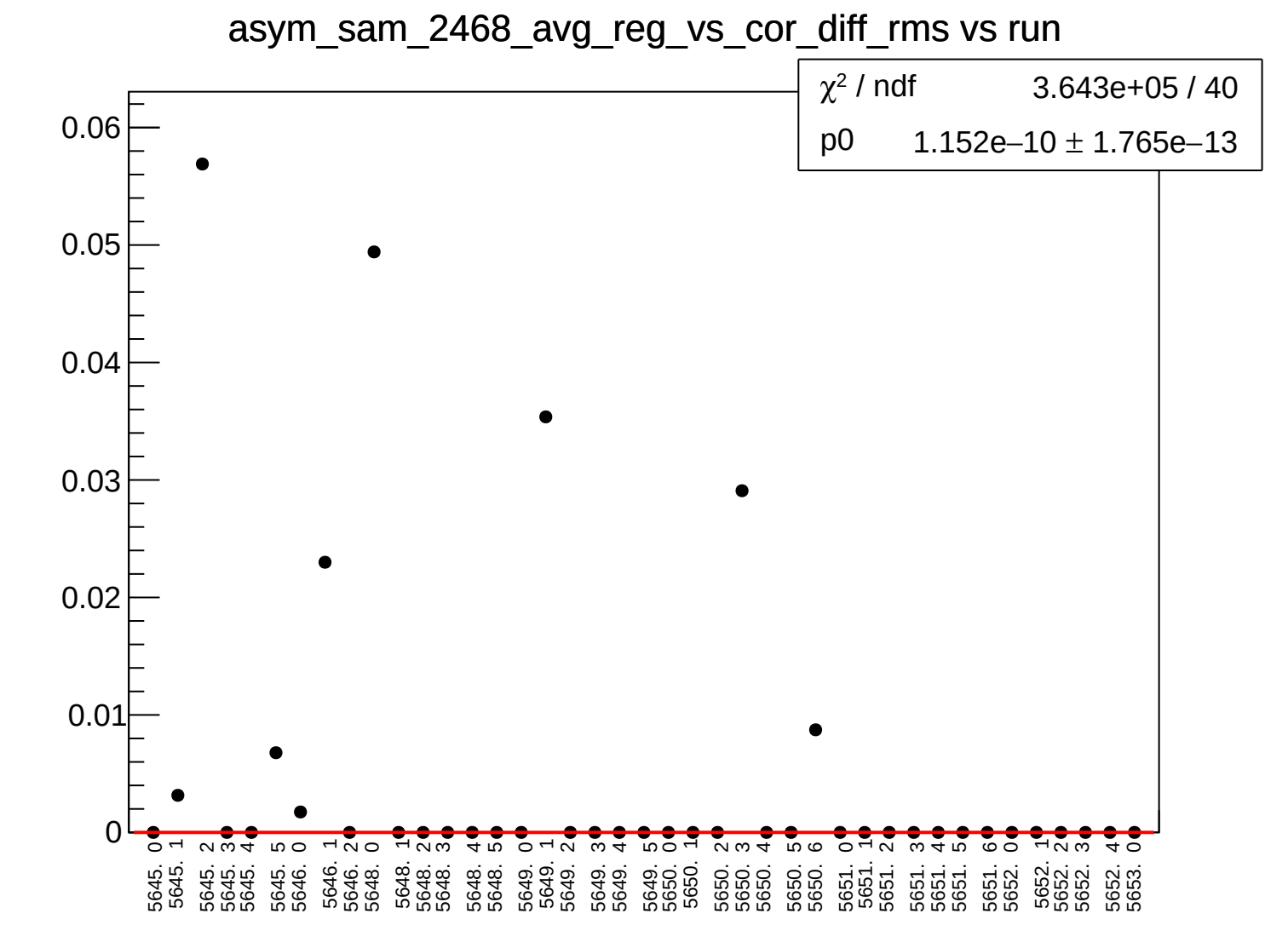
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 31.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.2013
Std Dev 0.8814
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.643e+05 / 40
p0 1.152e−10 ± 1.765e−13
0.06
0.05
0.04
0.03
0.02
0.01
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
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5651. 5
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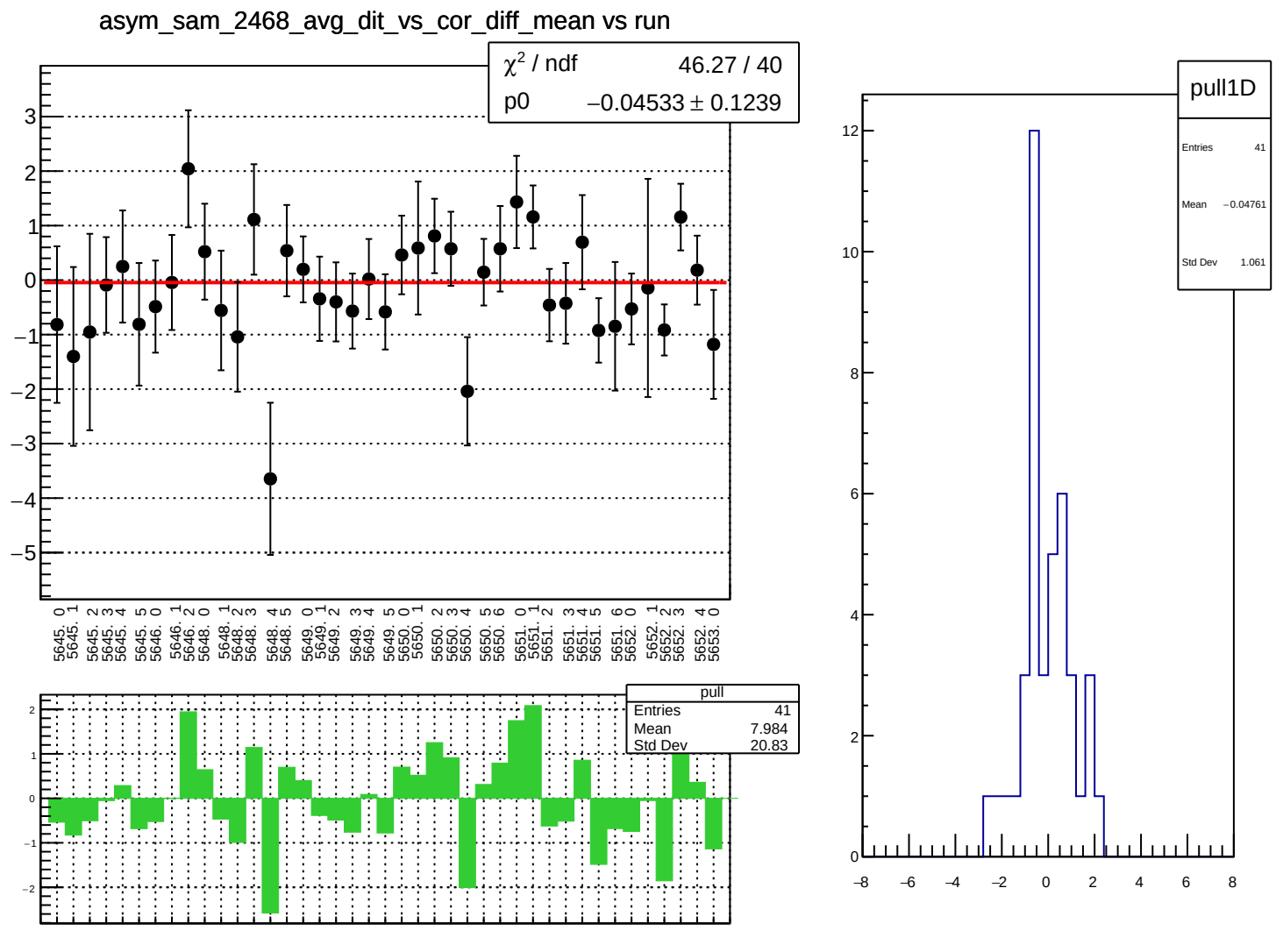
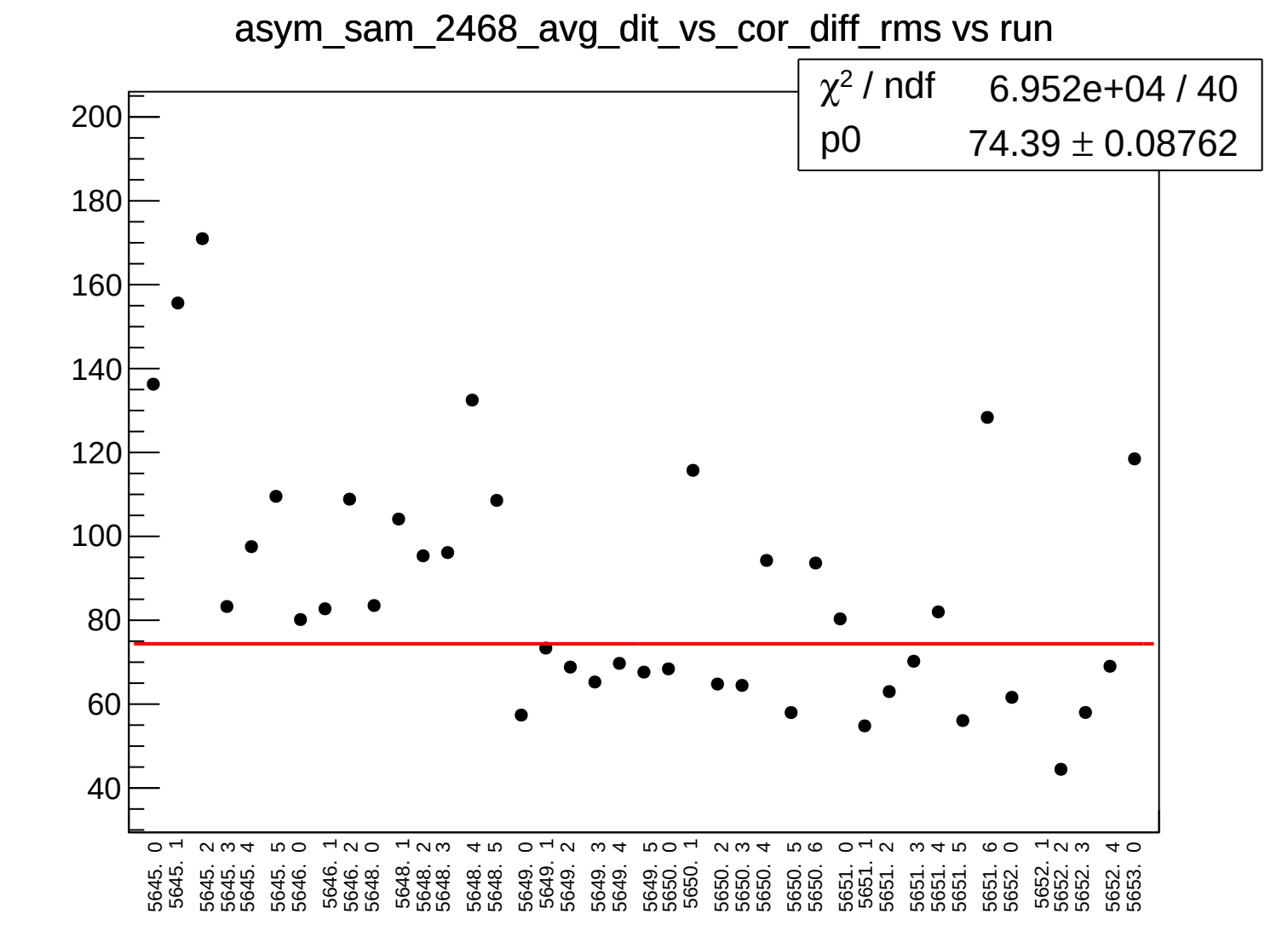

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.27 / 40
p0 −0.04533 ± 0.1239
pull
Entries 41
Mean 7.984
Std Dev 20.83
pull1D
Entries 41
Mean −0.04761
Std Dev 1.061


asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.952e+04 / 40
p0 74.39 ± 0.08762
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
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5648. 1
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5648. 3
5648. 4
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5650. 0
5650. 1
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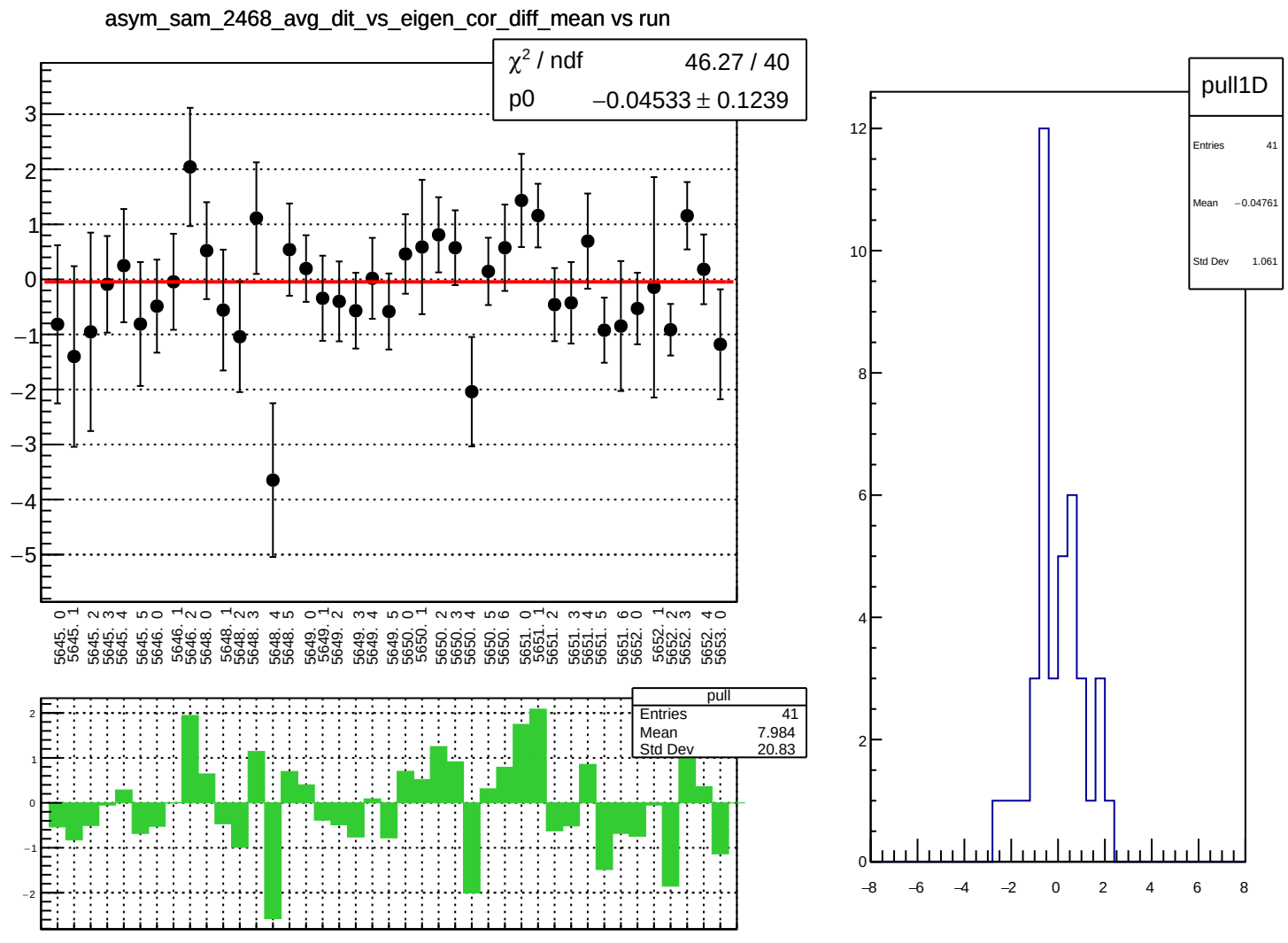
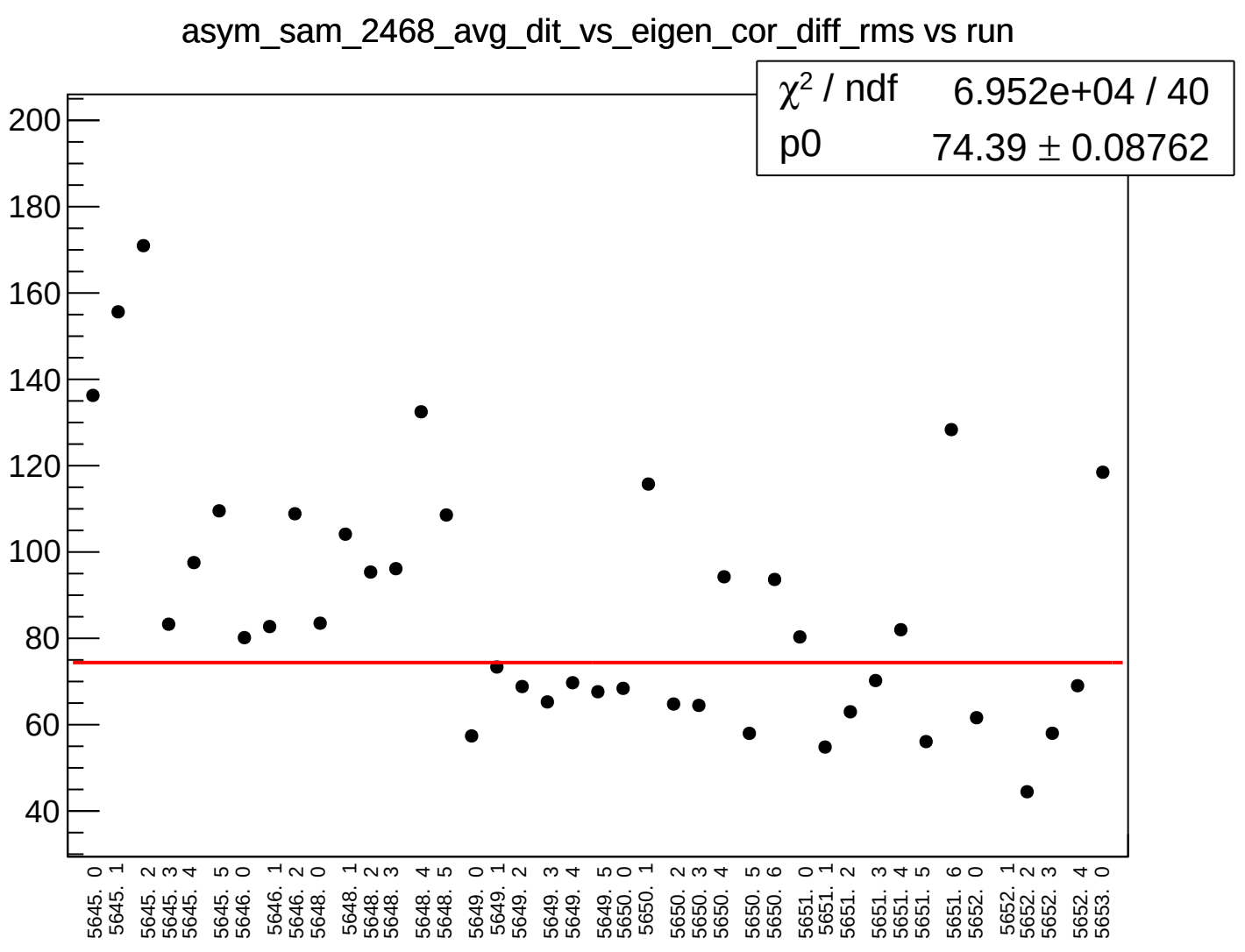
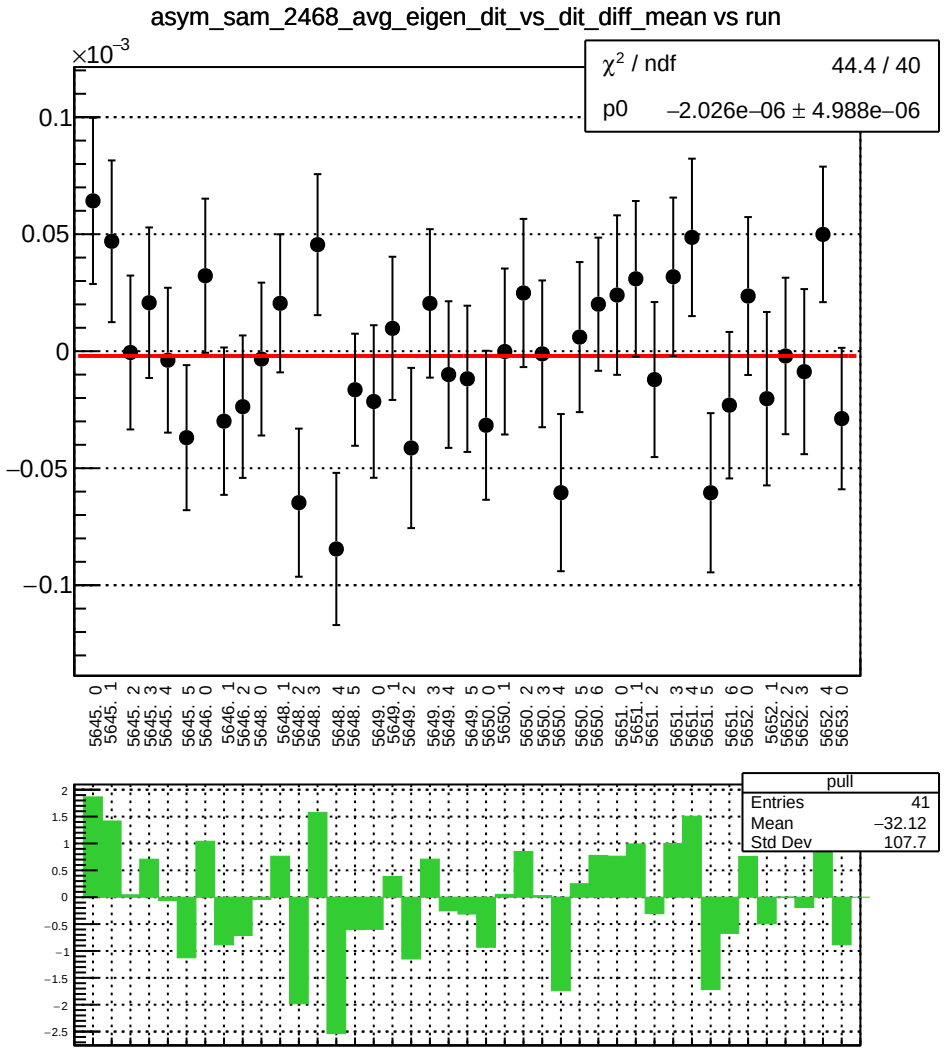
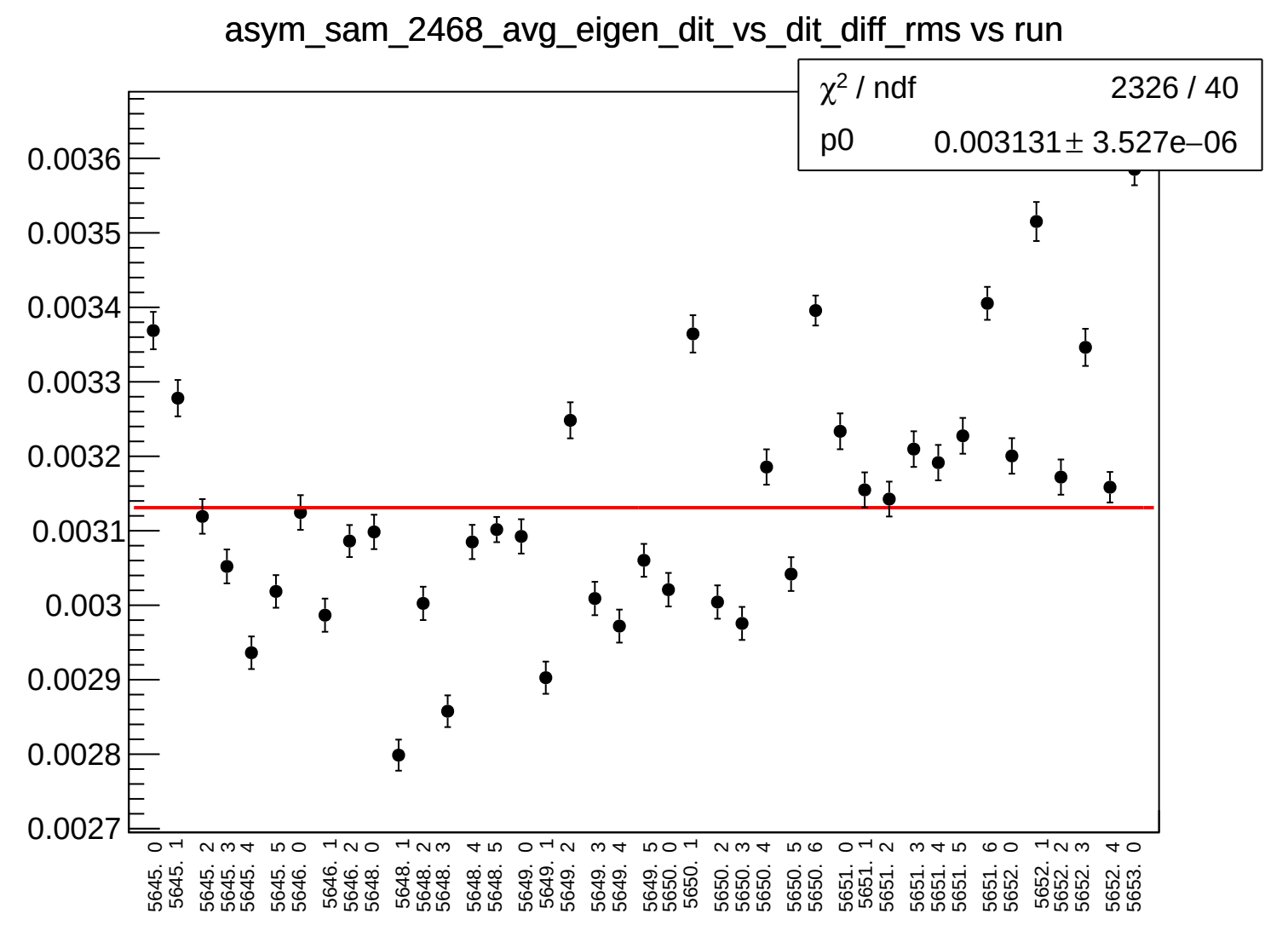
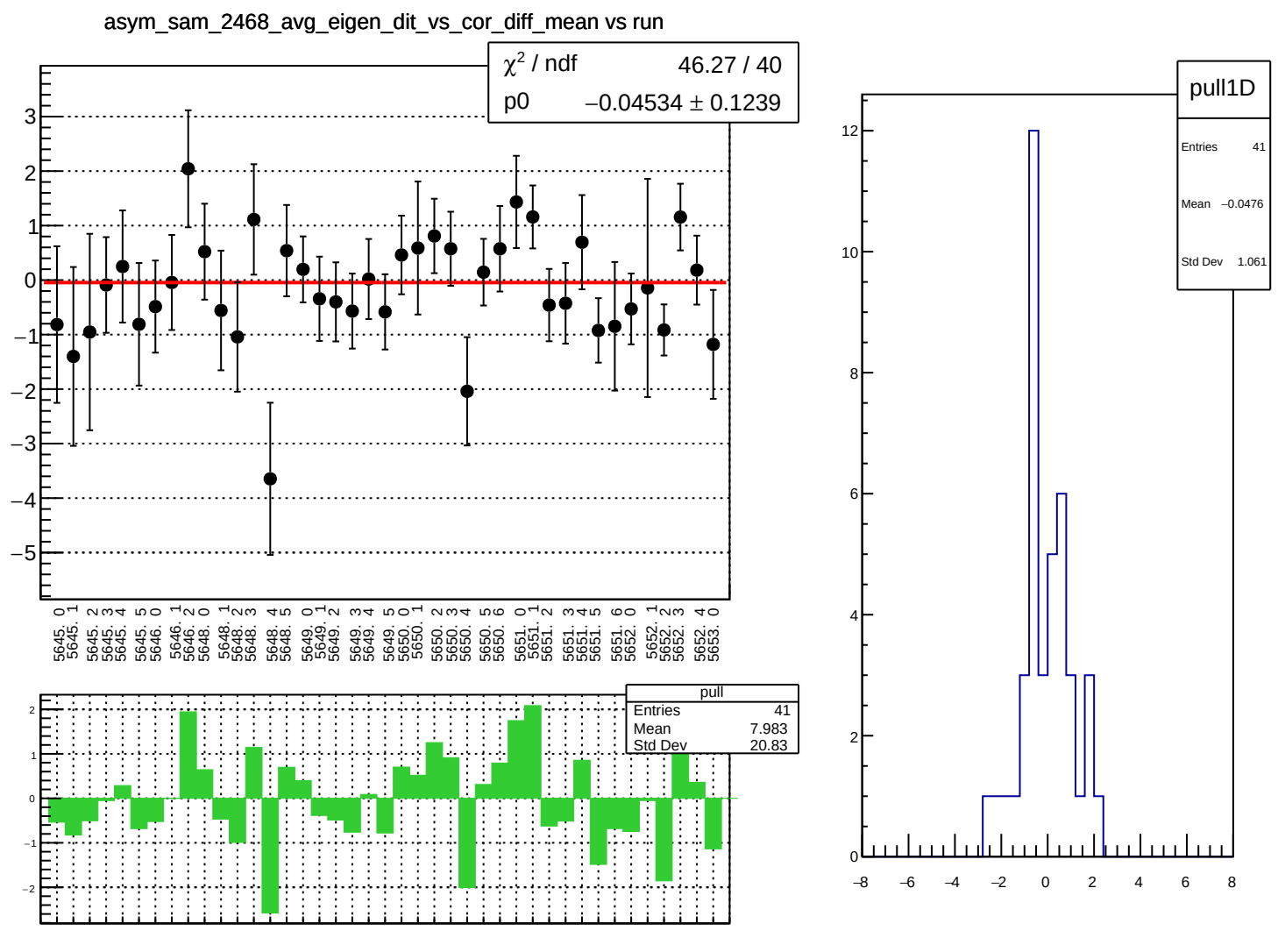
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

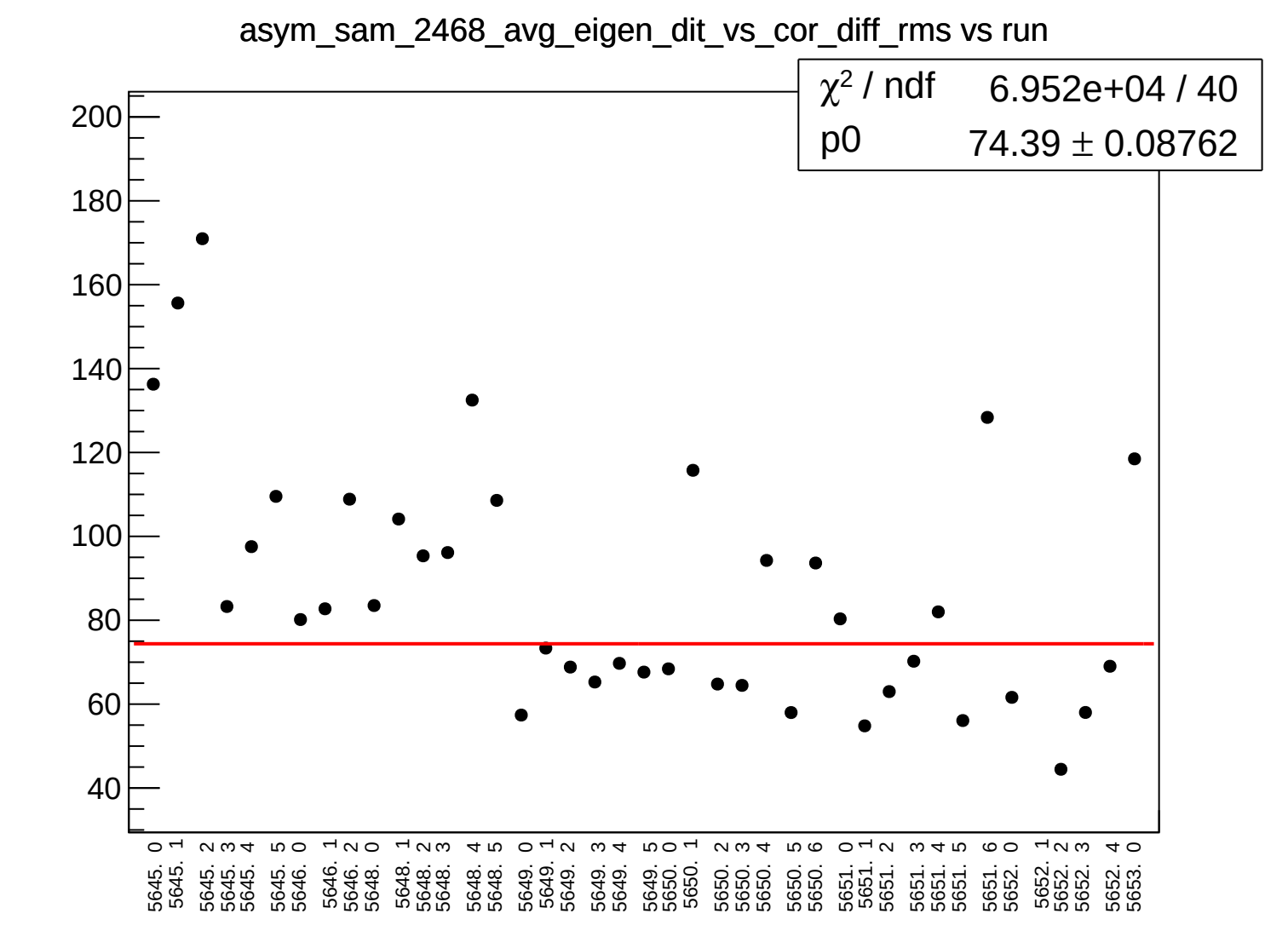

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.27 / 40
p0 −0.04533 ± 0.1239
pull
Entries 41
Mean 7.984
Std Dev 20.83
pull1D
Entries 41
Mean −0.04761
Std Dev 1.061

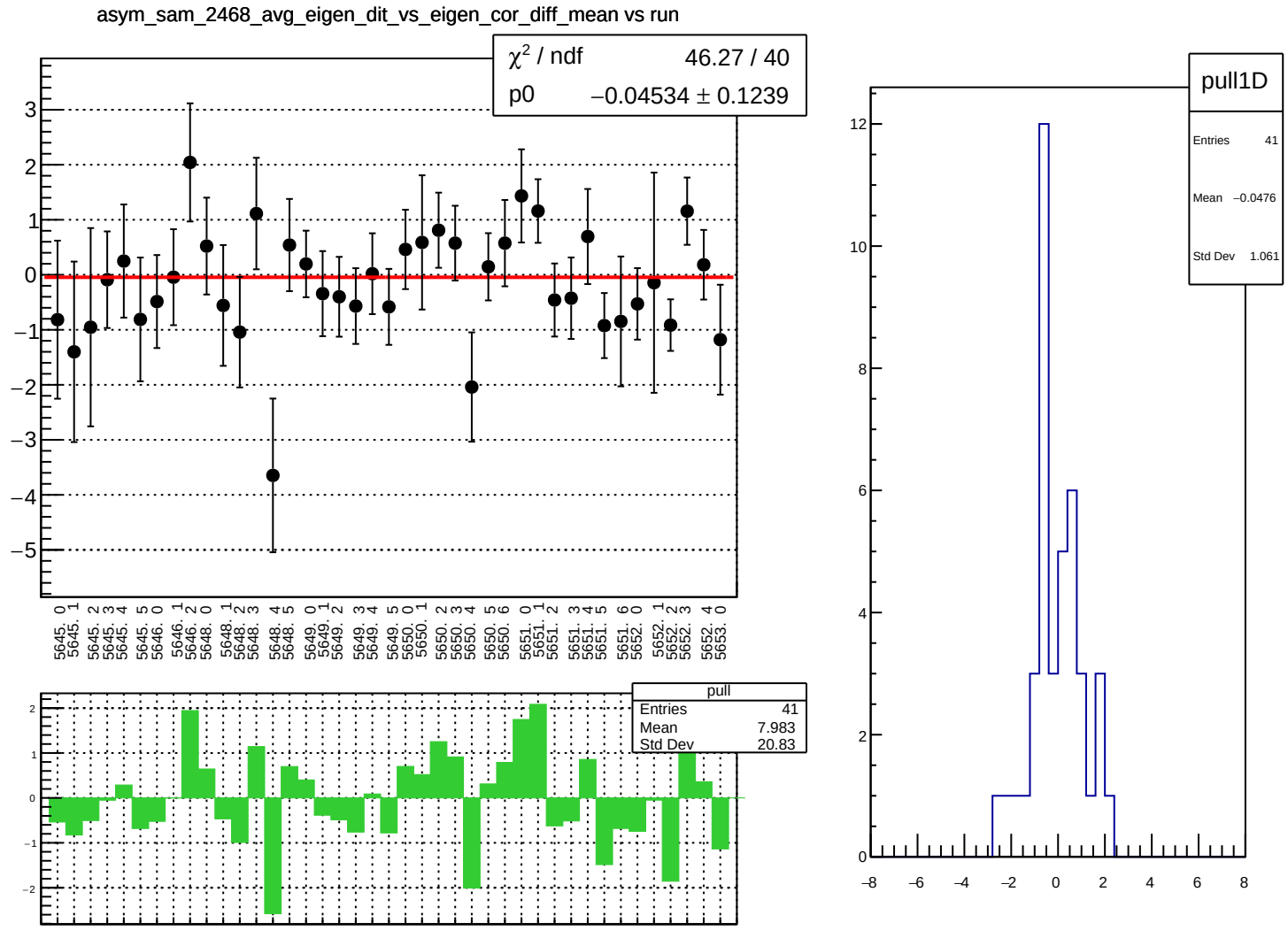

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.952e+04 / 40
p0 74.39 ± 0.08762
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

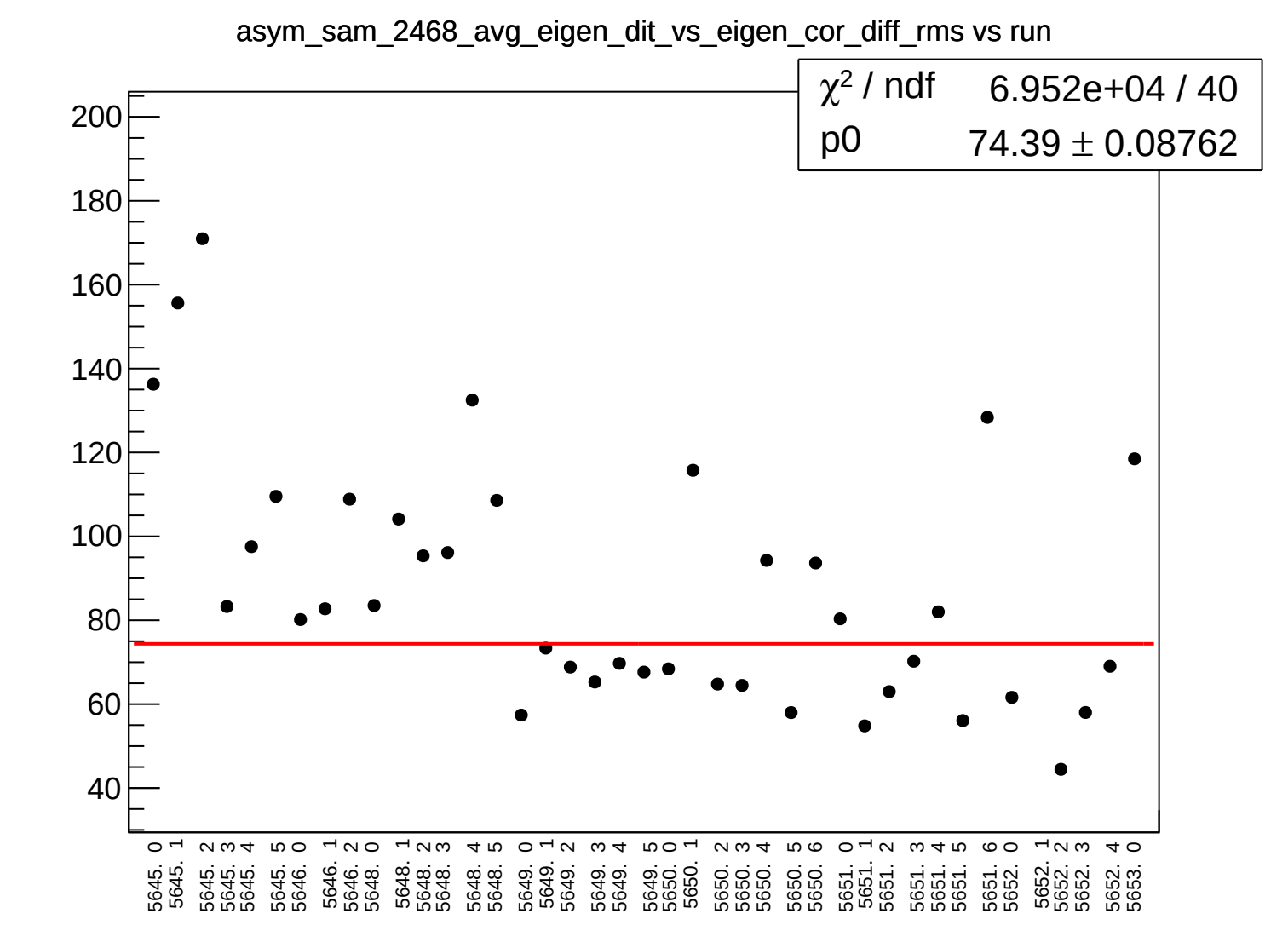

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.4 / 40
p0 −2.026e−06 ± 4.988e−06
0.1
0.05
0
−0.05
−0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −32.12
Std Dev 107.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 41
Mean 0.002225
Std Dev 1.041
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

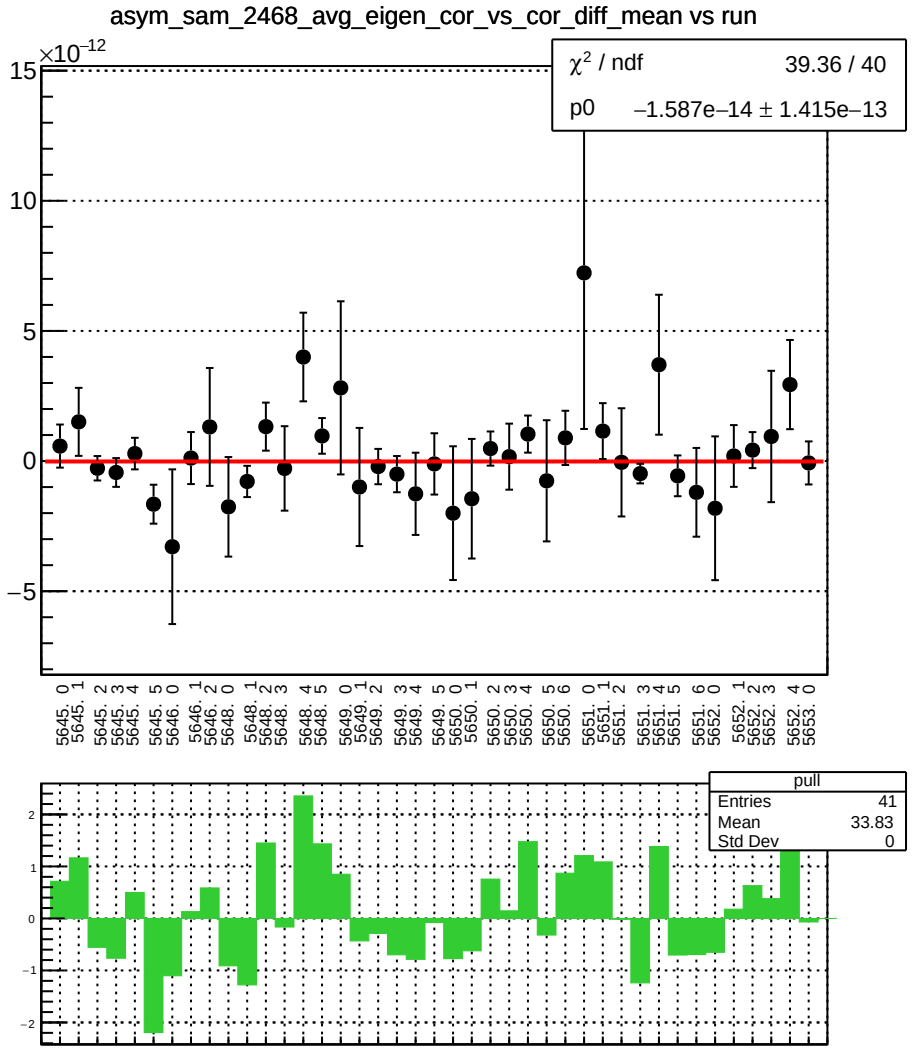

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2326 / 40
p0 0.003131 ± 3.527e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

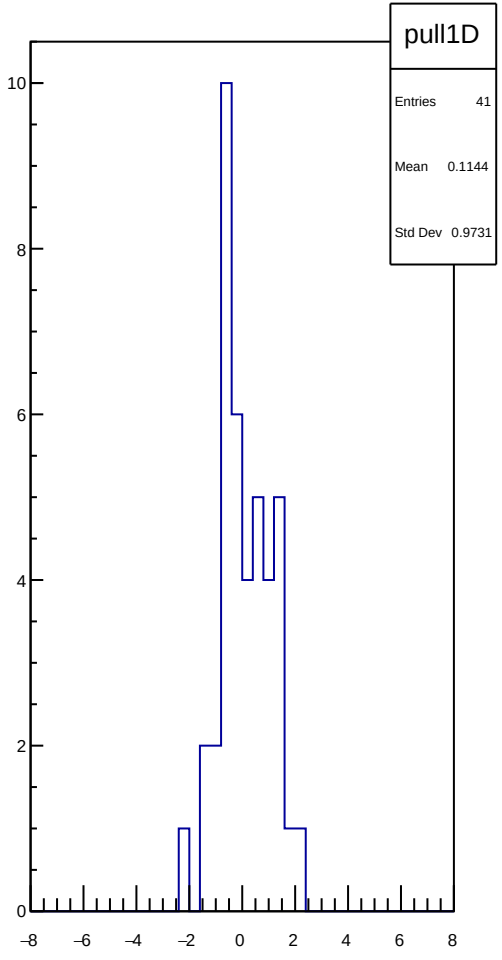

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.27 / 40
p0 −0.04534 ± 0.1239
pull
Entries 41
Mean 7.983
Std Dev 20.83
pull1D
Entries 41
Mean −0.0476
Std Dev 1.061

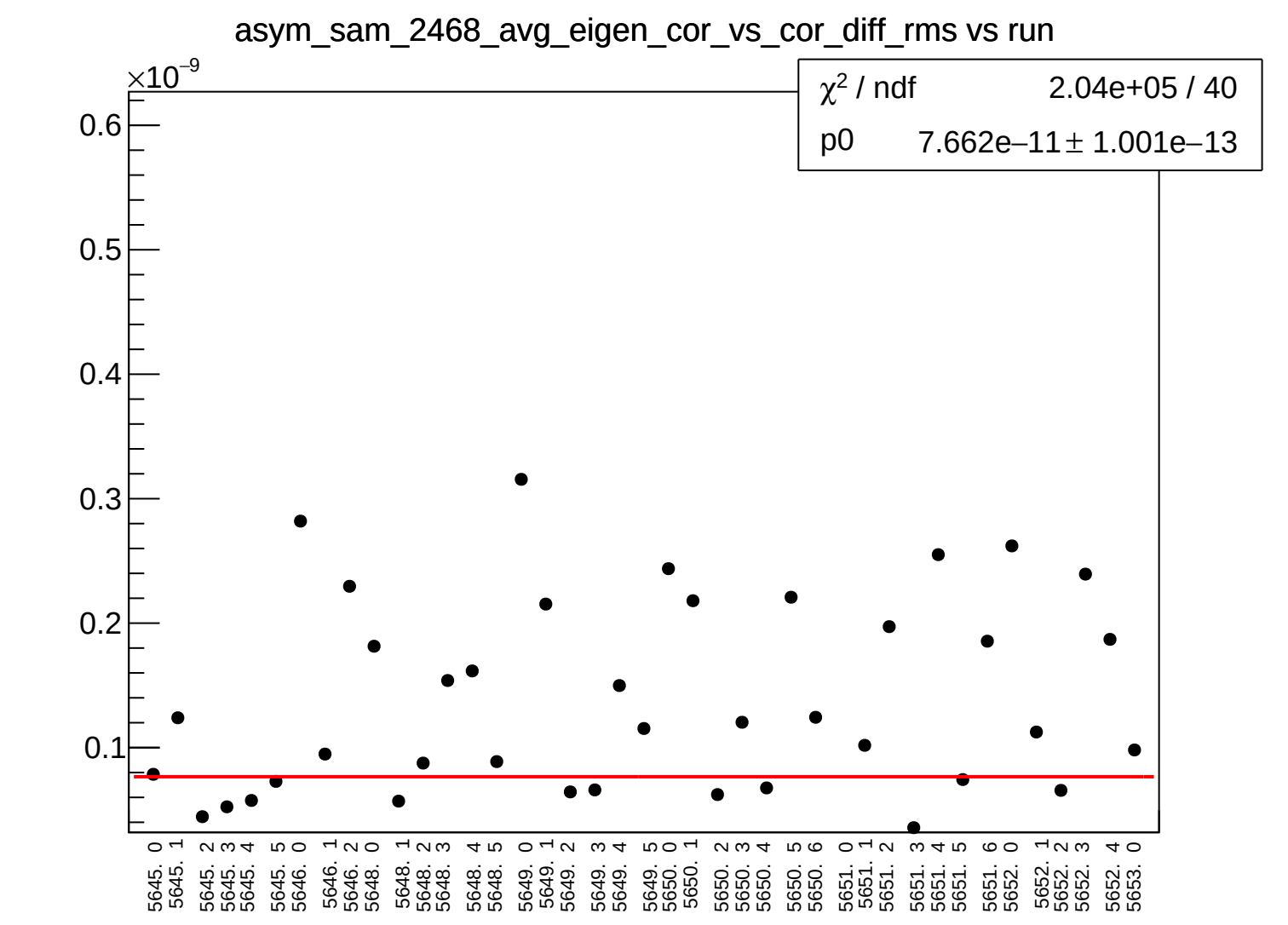

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.952e+04 / 40
p0 74.39 ± 0.08762
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

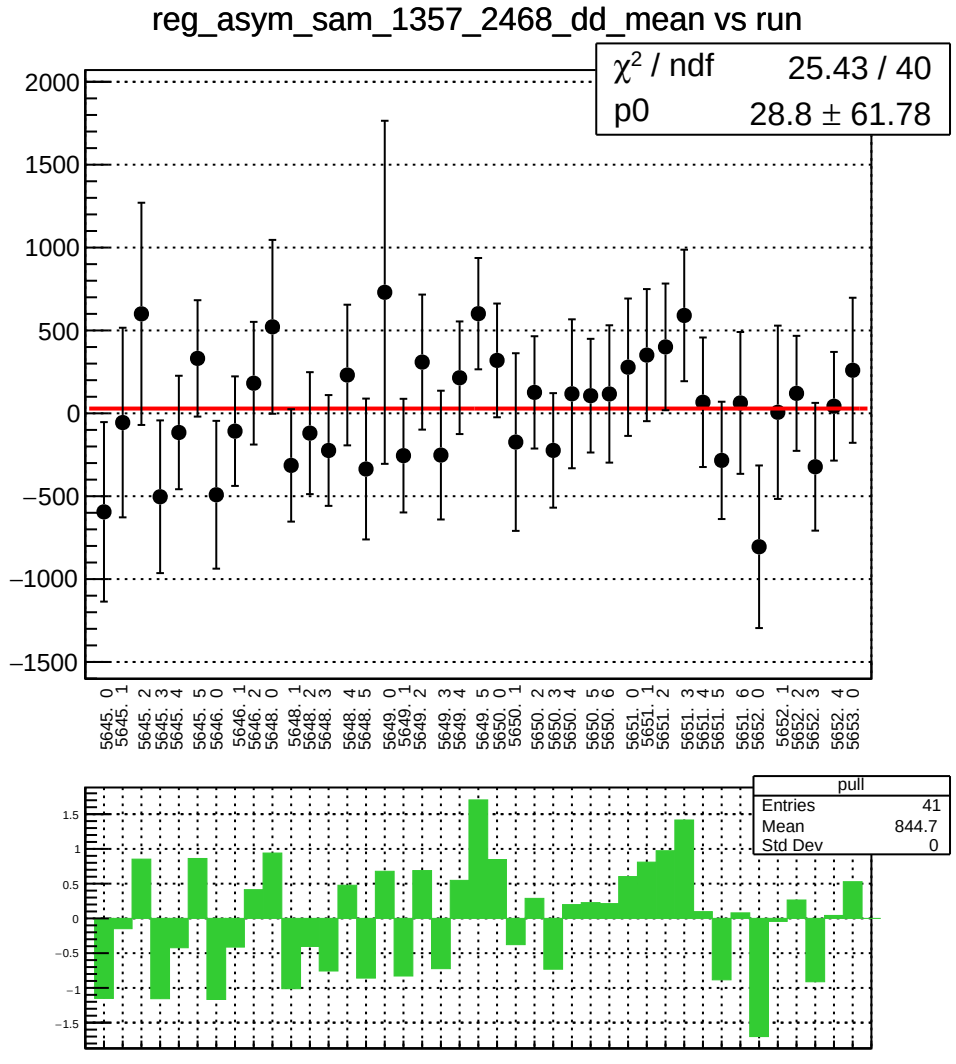

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.27 / 40
p0 −0.04534 ± 0.1239
pull
Entries 41
Mean 7.983
Std Dev 20.83
pull1D
Entries 41
Mean −0.0476
Std Dev 1.061

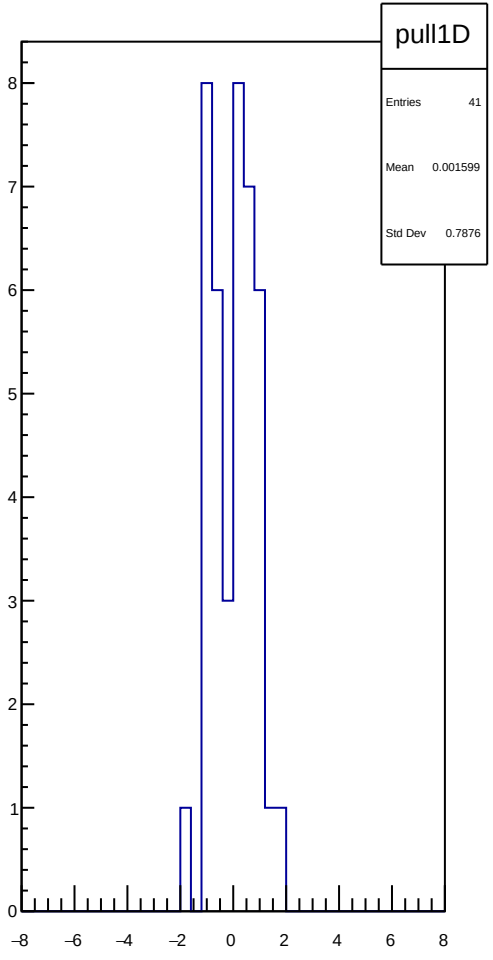

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.952e+04 / 40
p0 74.39 ± 0.08762
200
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

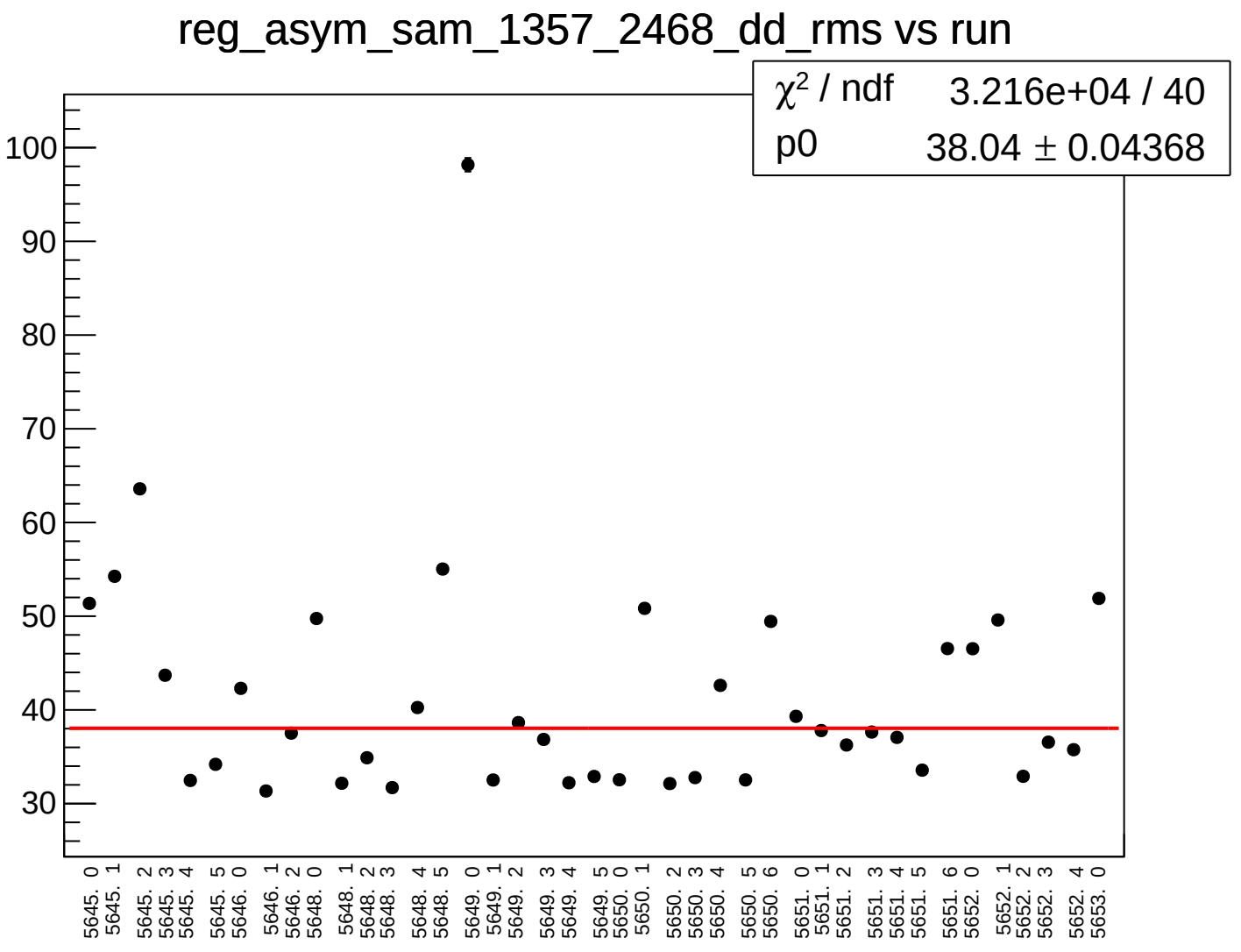

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 39.36 / 40
p0 −1.587e−14 ± 1.415e−13
pull
Entries 41
Mean 33.83
Std Dev 0

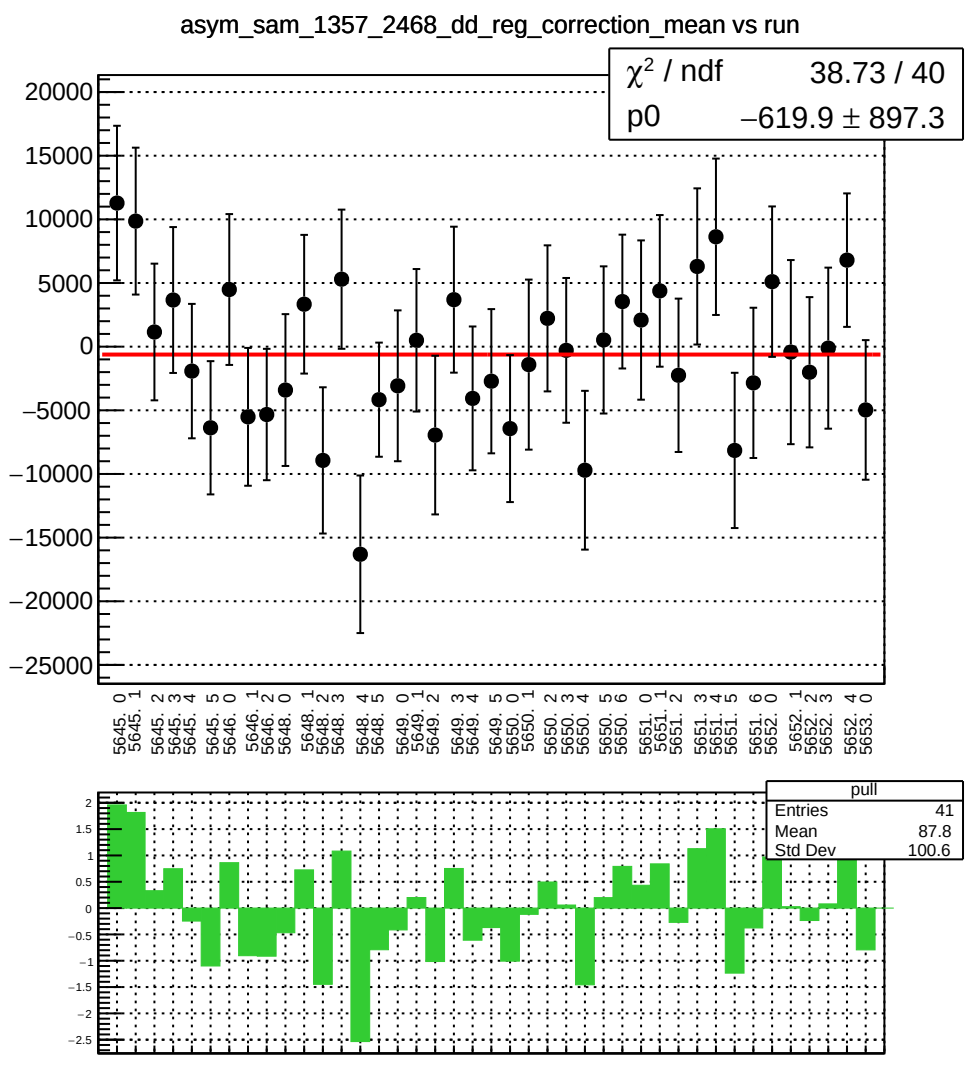

pull1D
Entries 41
Mean 0.1144
Std Dev 0.9731

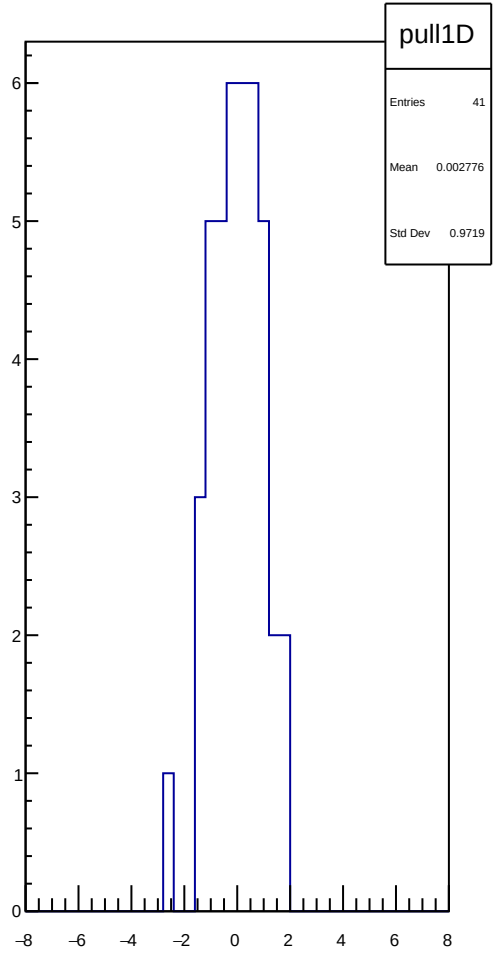

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.04e+05 / 40
p0 7.662e−11 ± 1.001e−13
0.6
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

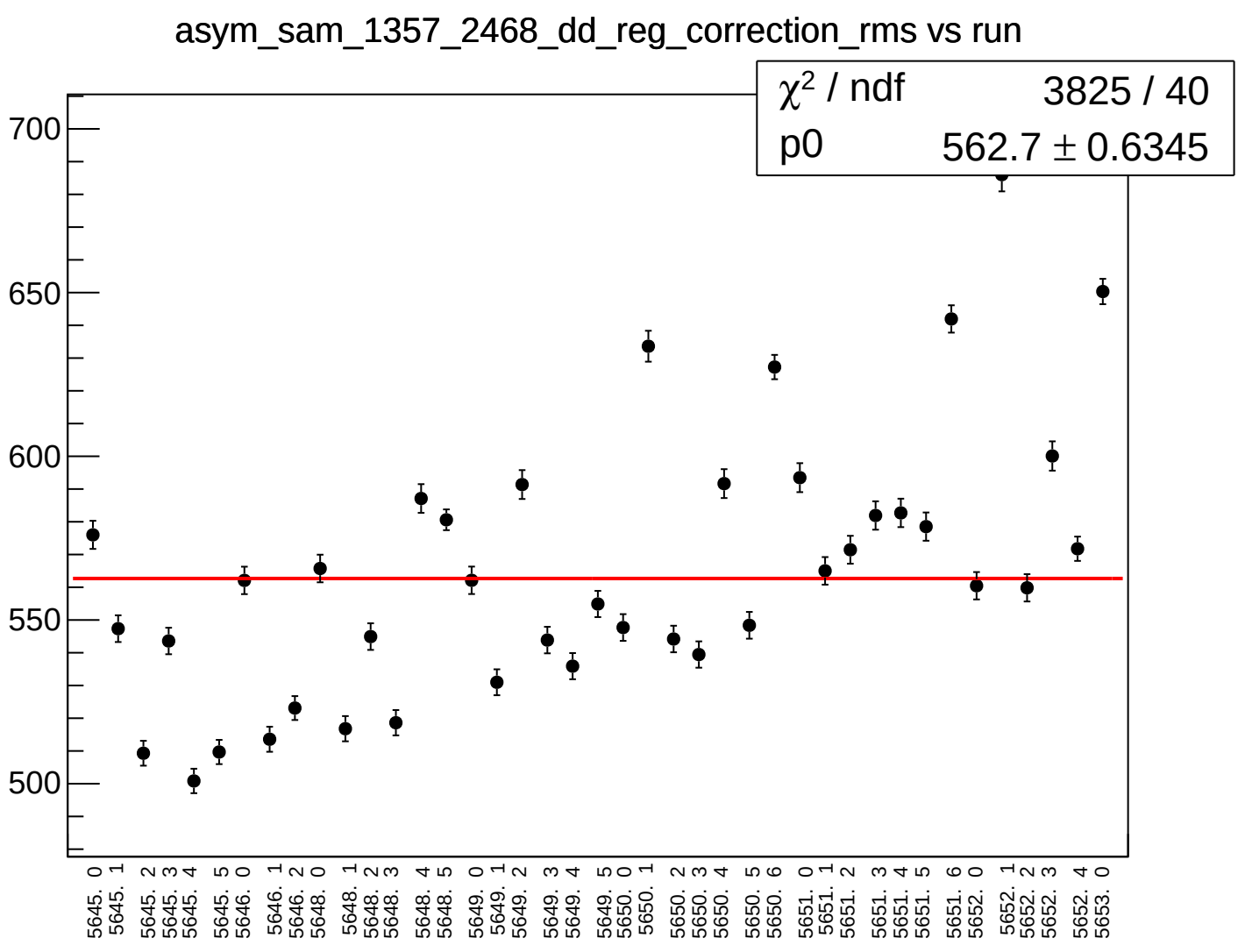

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 25.43 / 40
p0 28.8 ± 61.78
pull
Entries 41
Mean 844.7
Std Dev 0

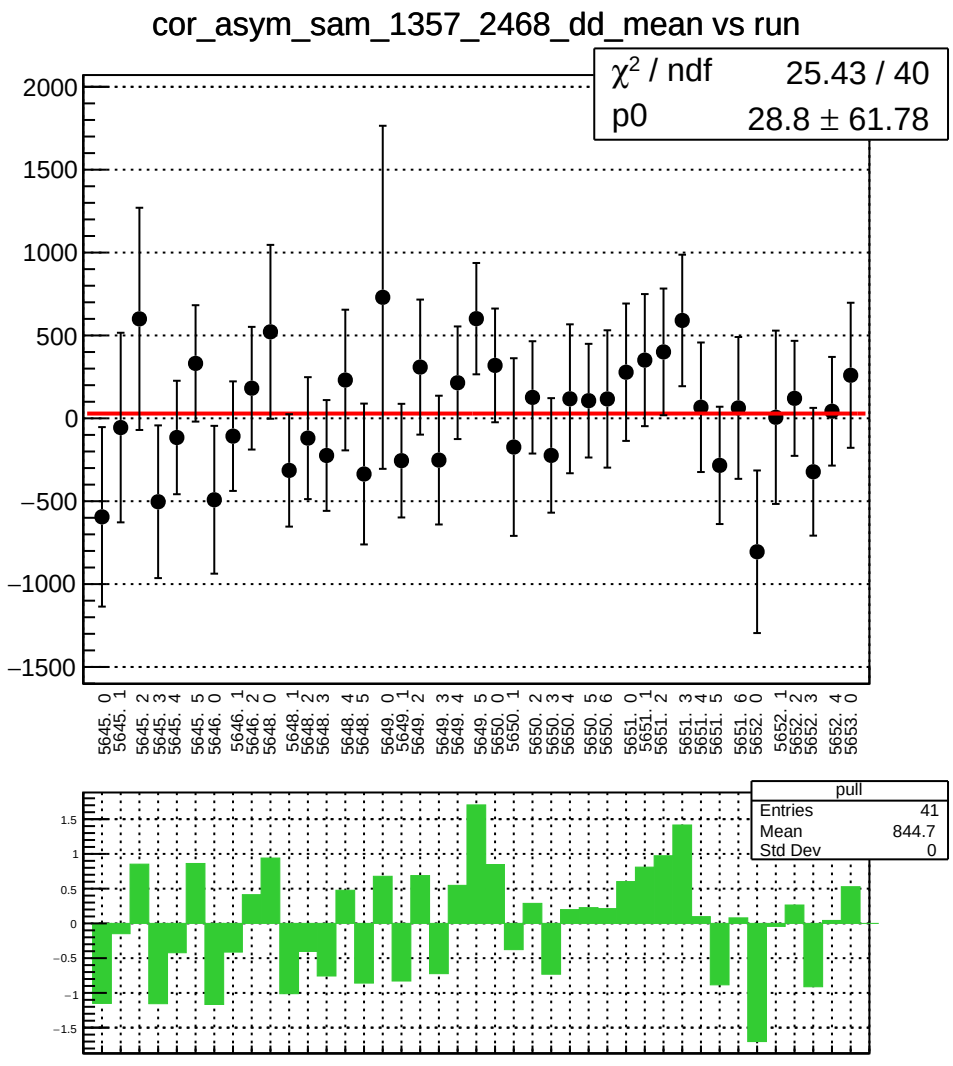

pull1D
Entries 41
Mean 0.001599
Std Dev 0.7876

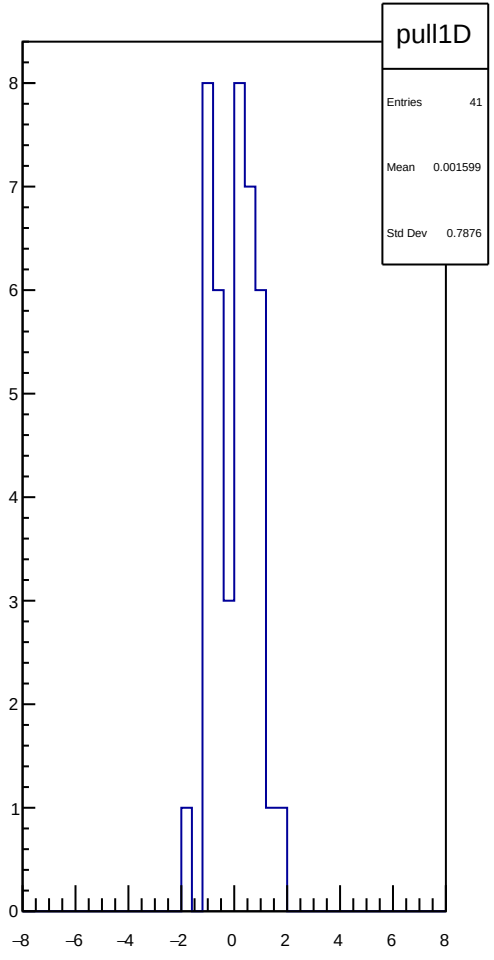

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.216e+04 / 40
p0 38.04 ± 0.04368
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

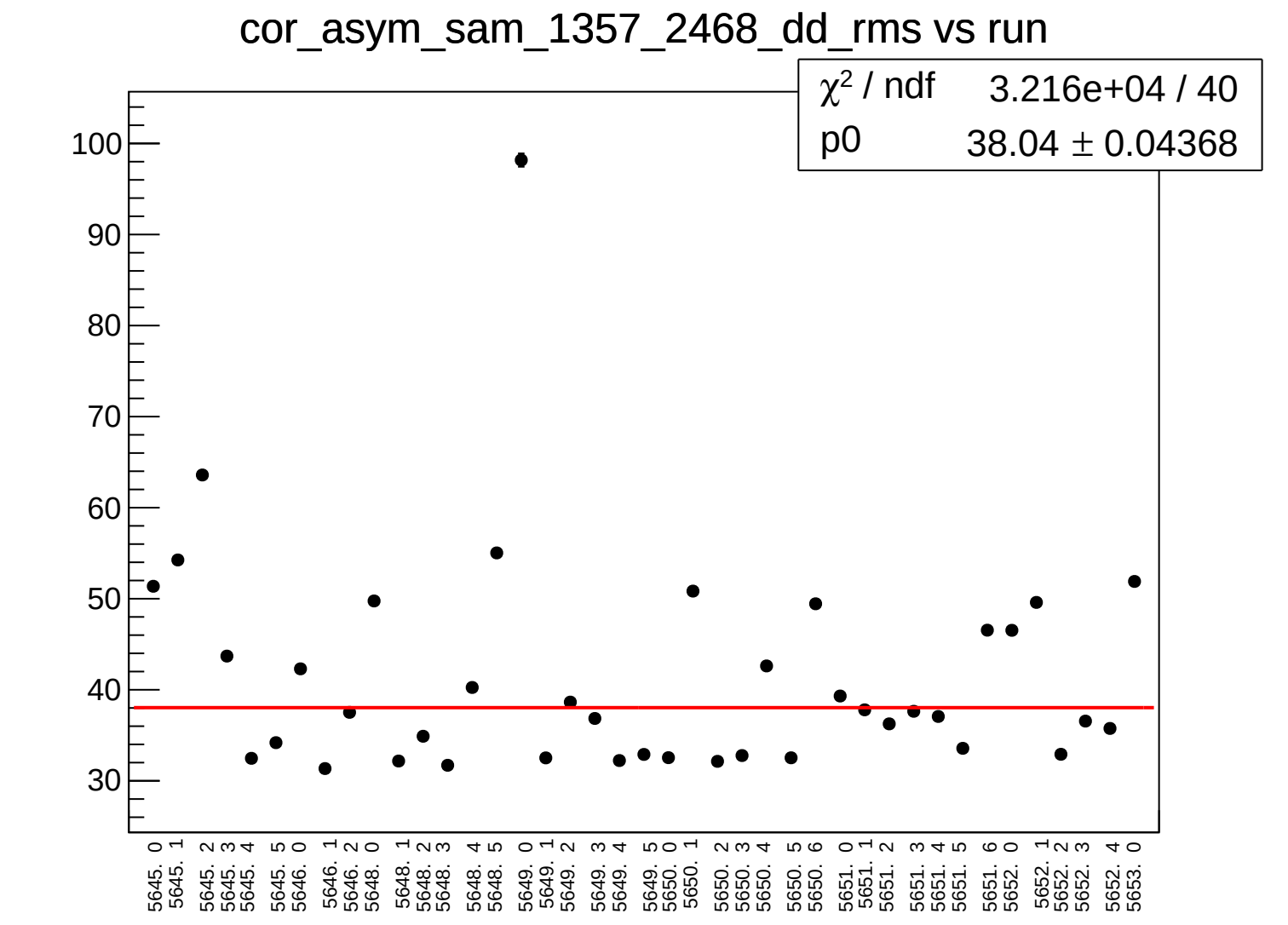

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 38.73 / 40
p0 −619.9 ± 897.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 87.8
Std Dev 100.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

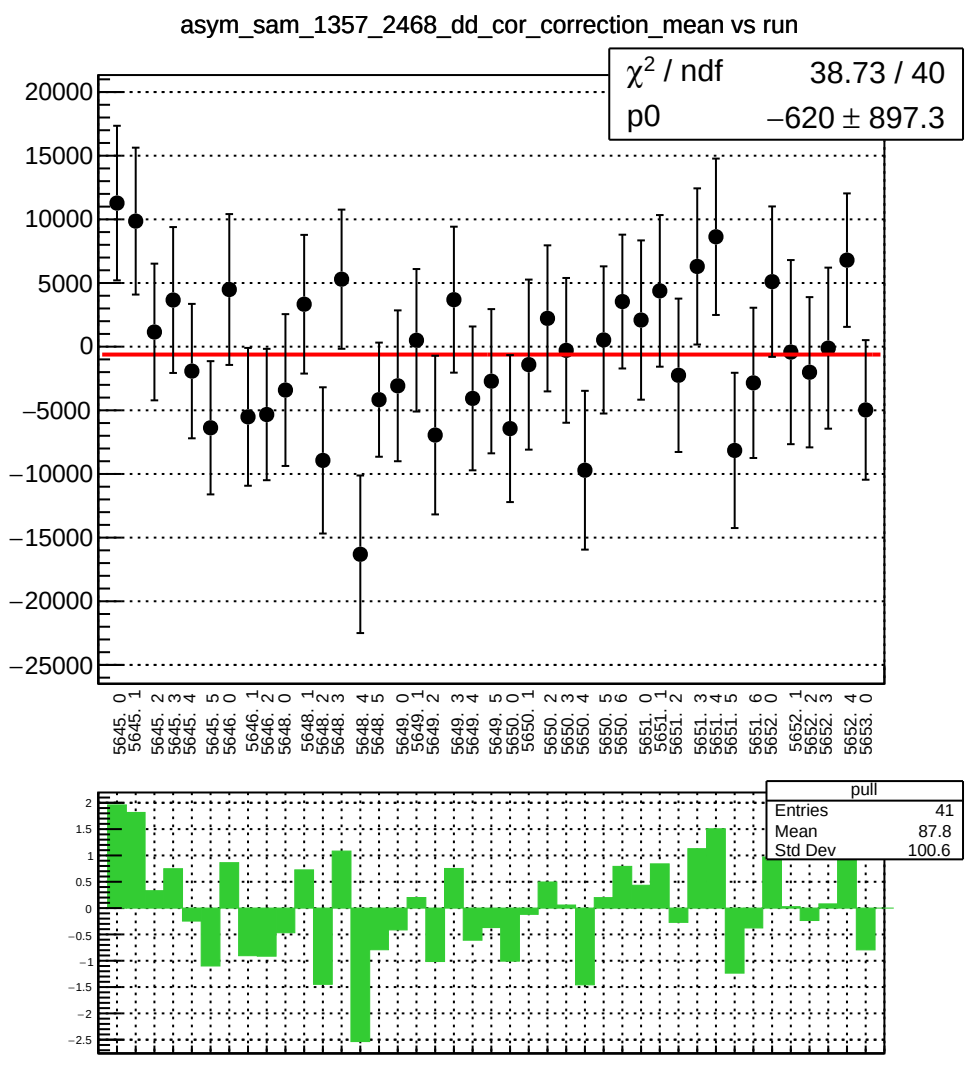

pull1D
Entries 41
Mean 0.002776
Std Dev 0.9719
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

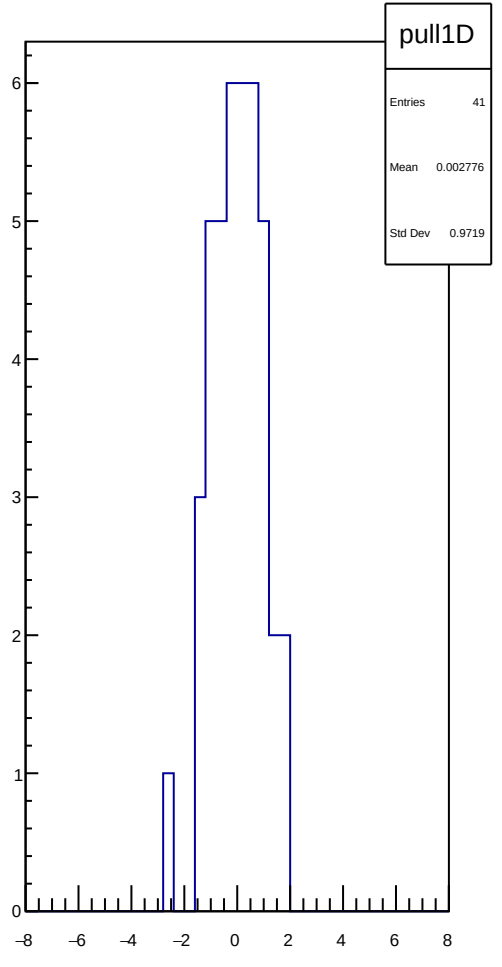

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3825 / 40
p0 562.7 ± 0.6345
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

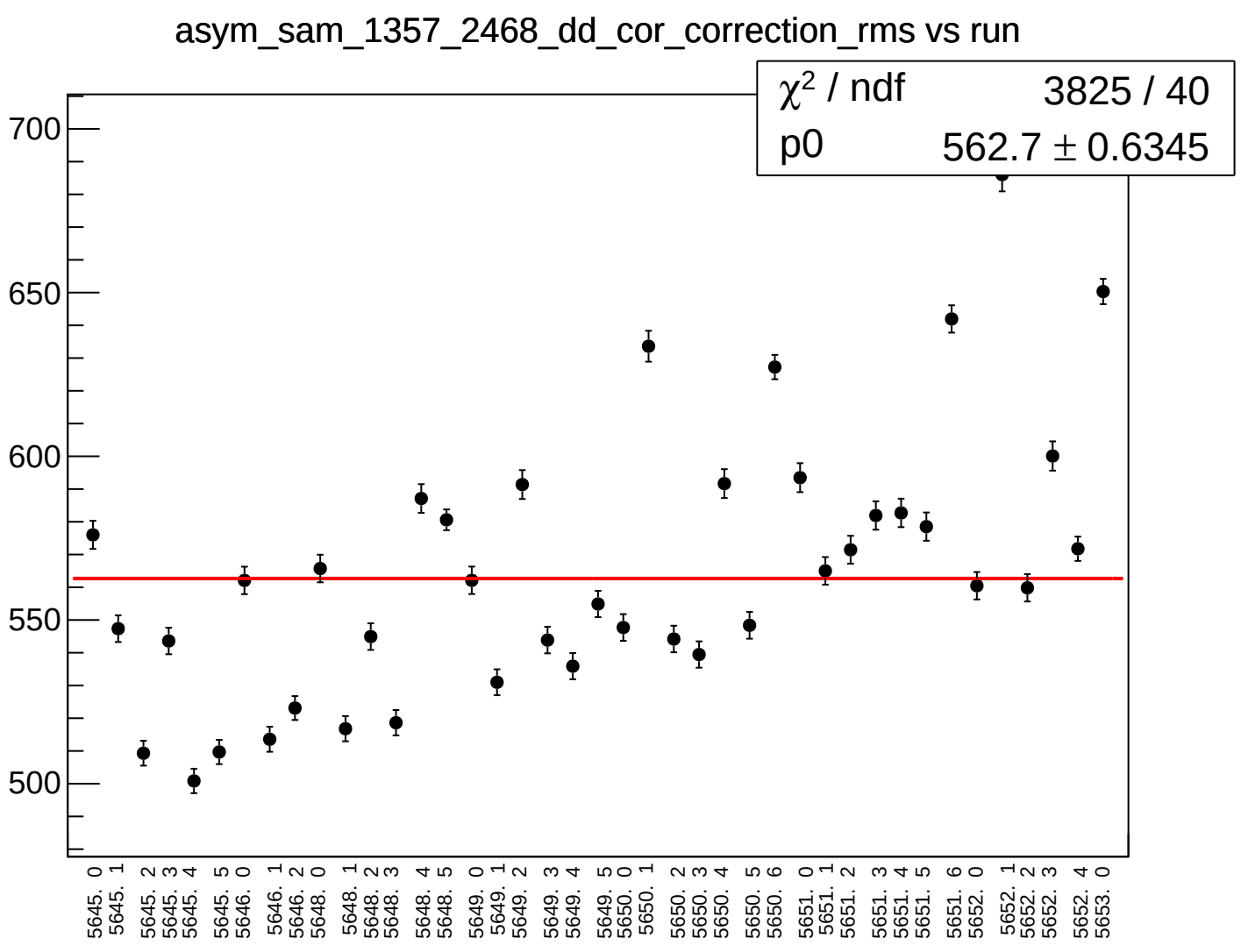

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 25.43 / 40
p0 28.8 ± 61.78
pull
Entries 41
Mean 844.7
Std Dev 0

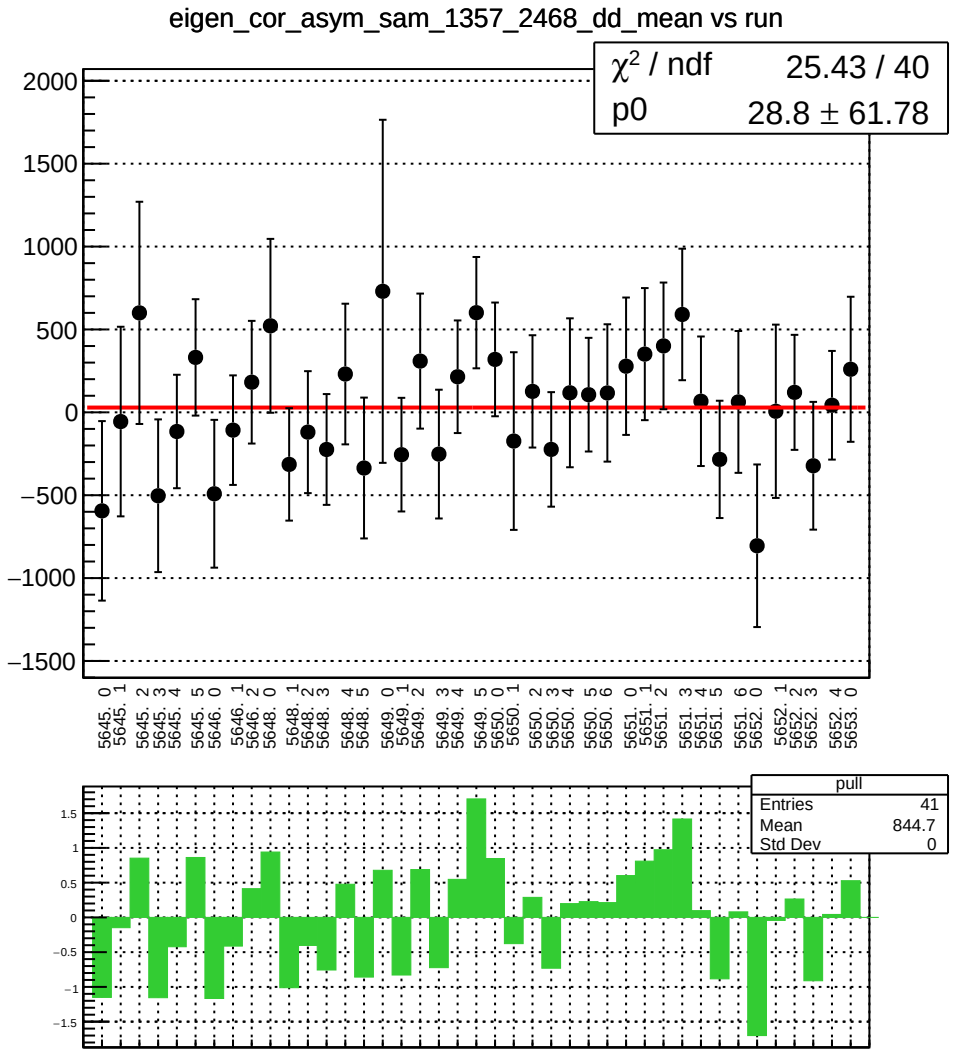

pull1D
Entries 41
Mean 0.001599
Std Dev 0.7876

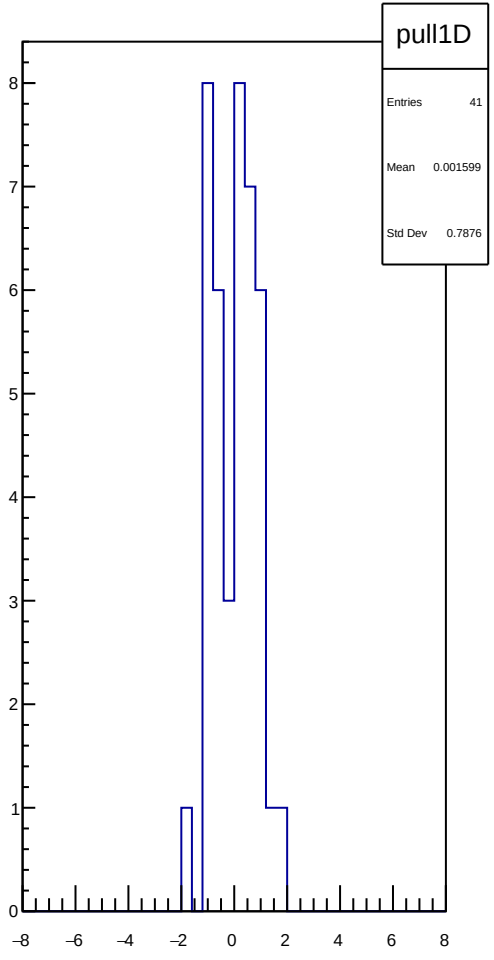

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.216e+04 / 40
p0 38.04 ± 0.04368
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

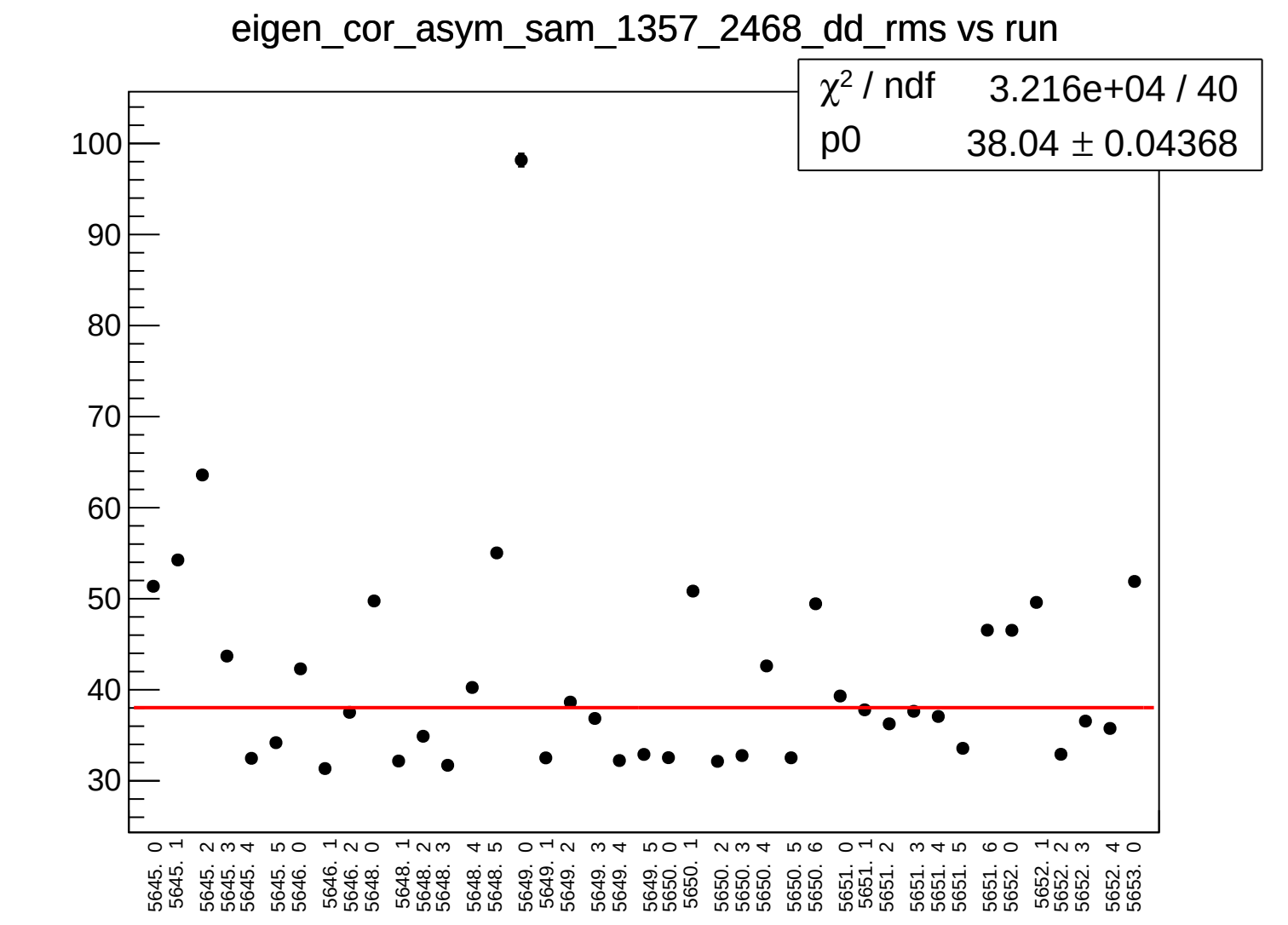

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 38.73 / 40
p0 −620 ± 897.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 87.8
Std Dev 100.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

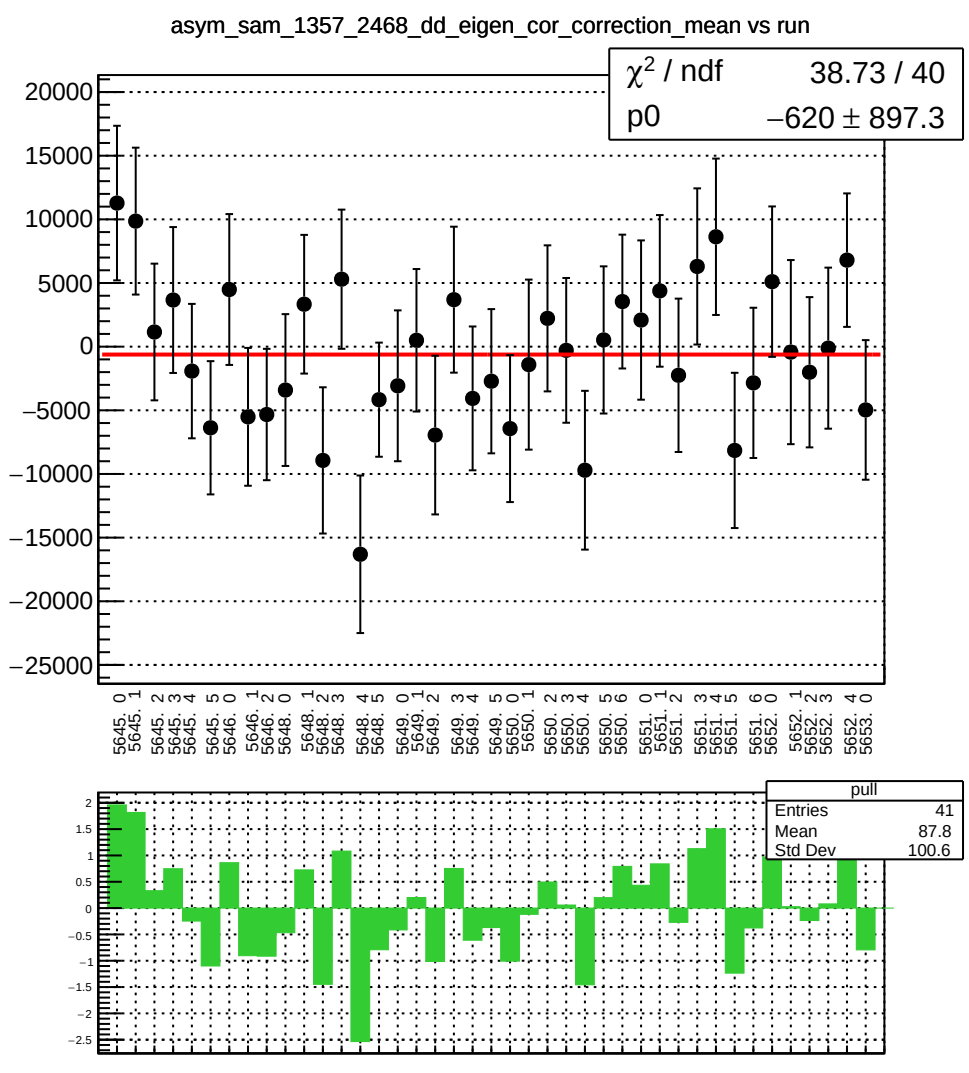

pull1D
Entries 41
Mean 0.002776
Std Dev 0.9719
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

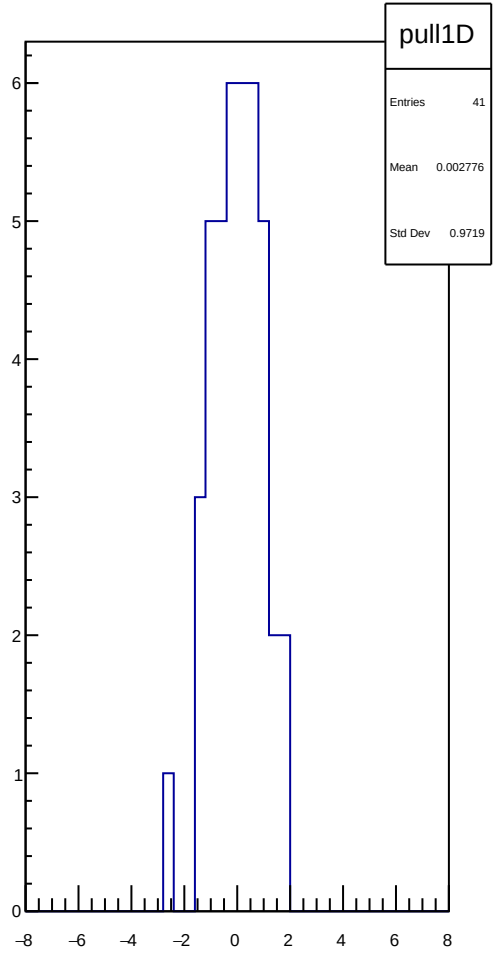

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3825 / 40
p0 562.7 ± 0.6345
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

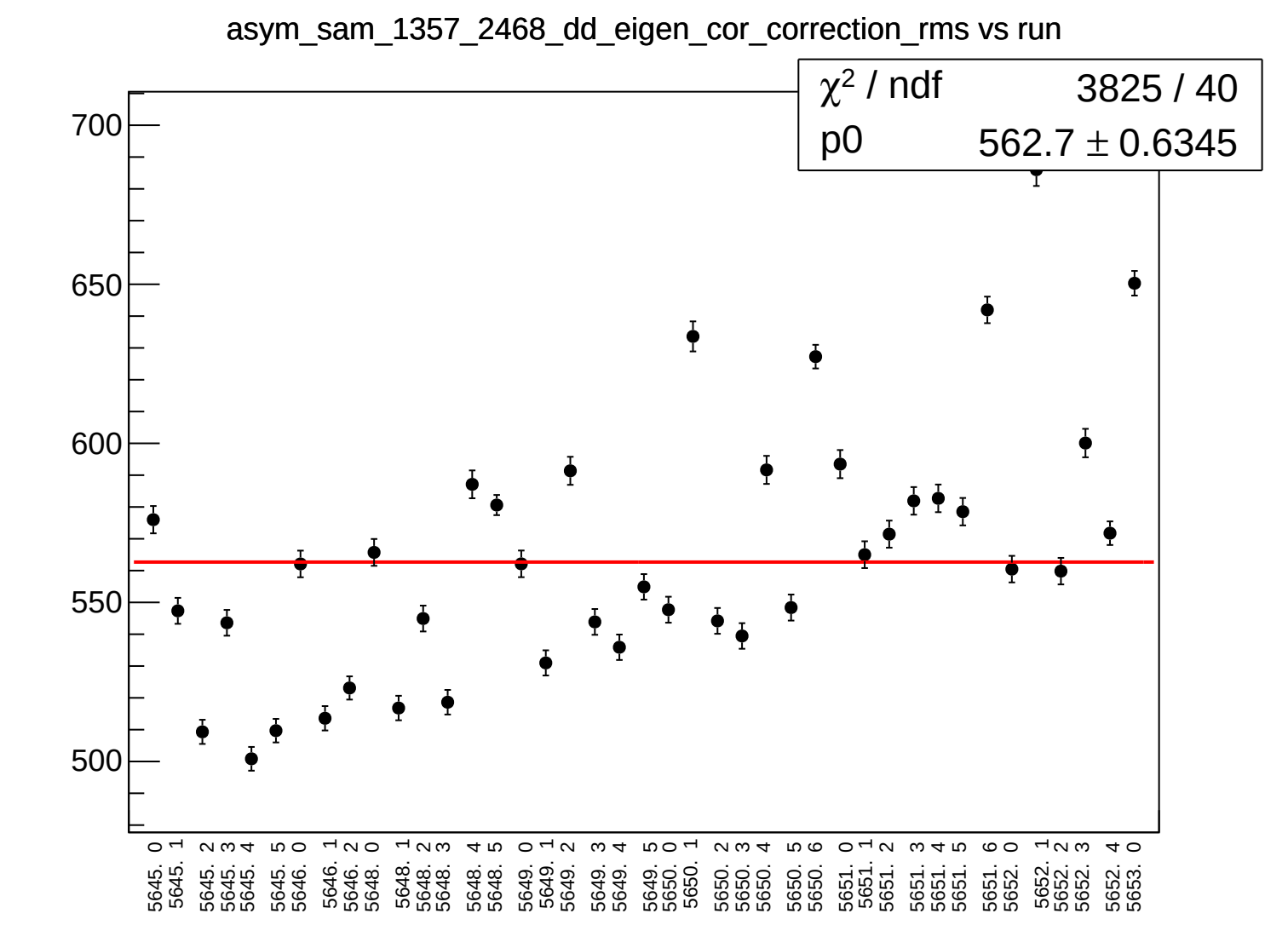

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 25.43 / 40
p0 28.8 ± 61.78
pull
Entries 41
Mean 844.7
Std Dev 0

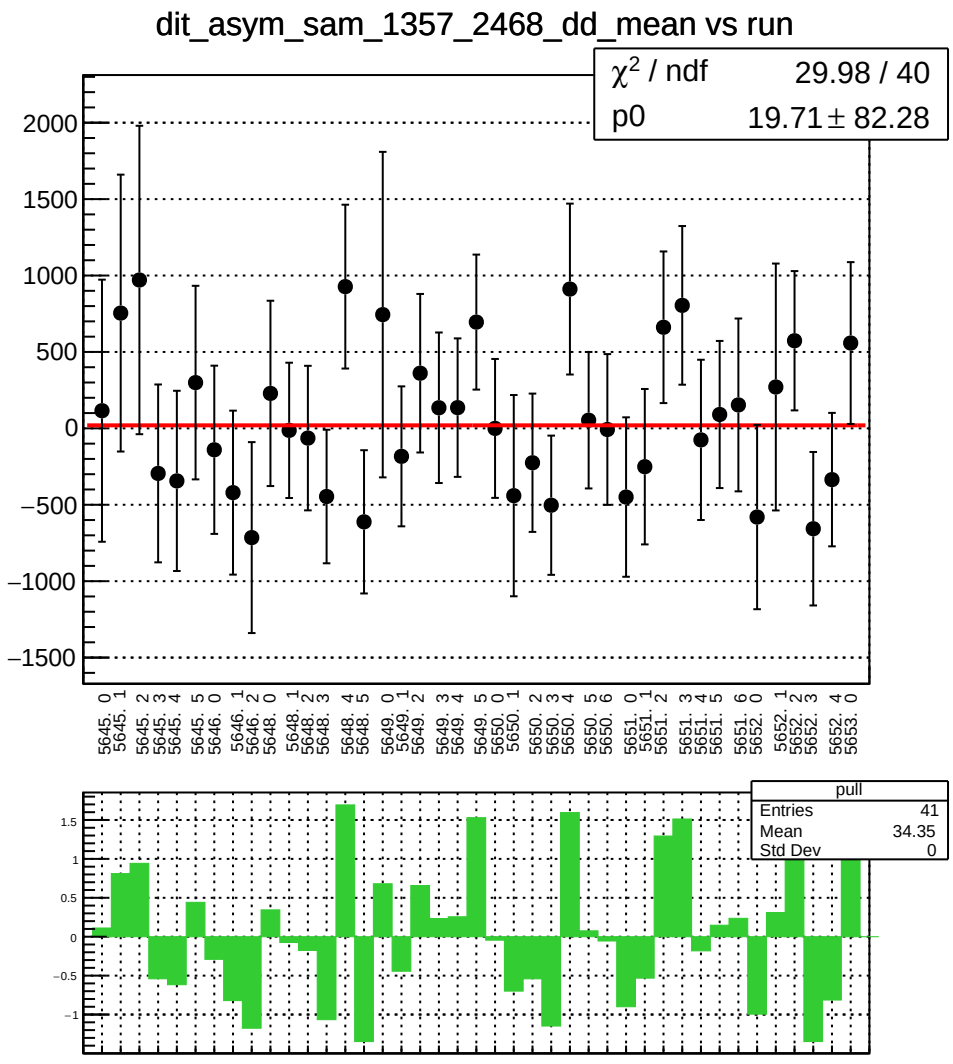

pull1D
Entries 41
Mean 0.001599
Std Dev 0.7876

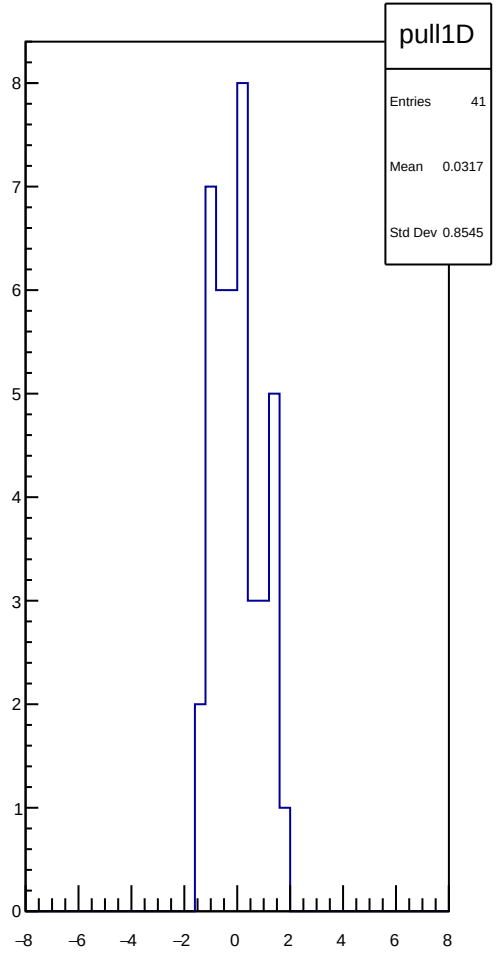

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.216e+04 / 40
p0 38.04 ± 0.04368
100
90
80
70
60
50
40
30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

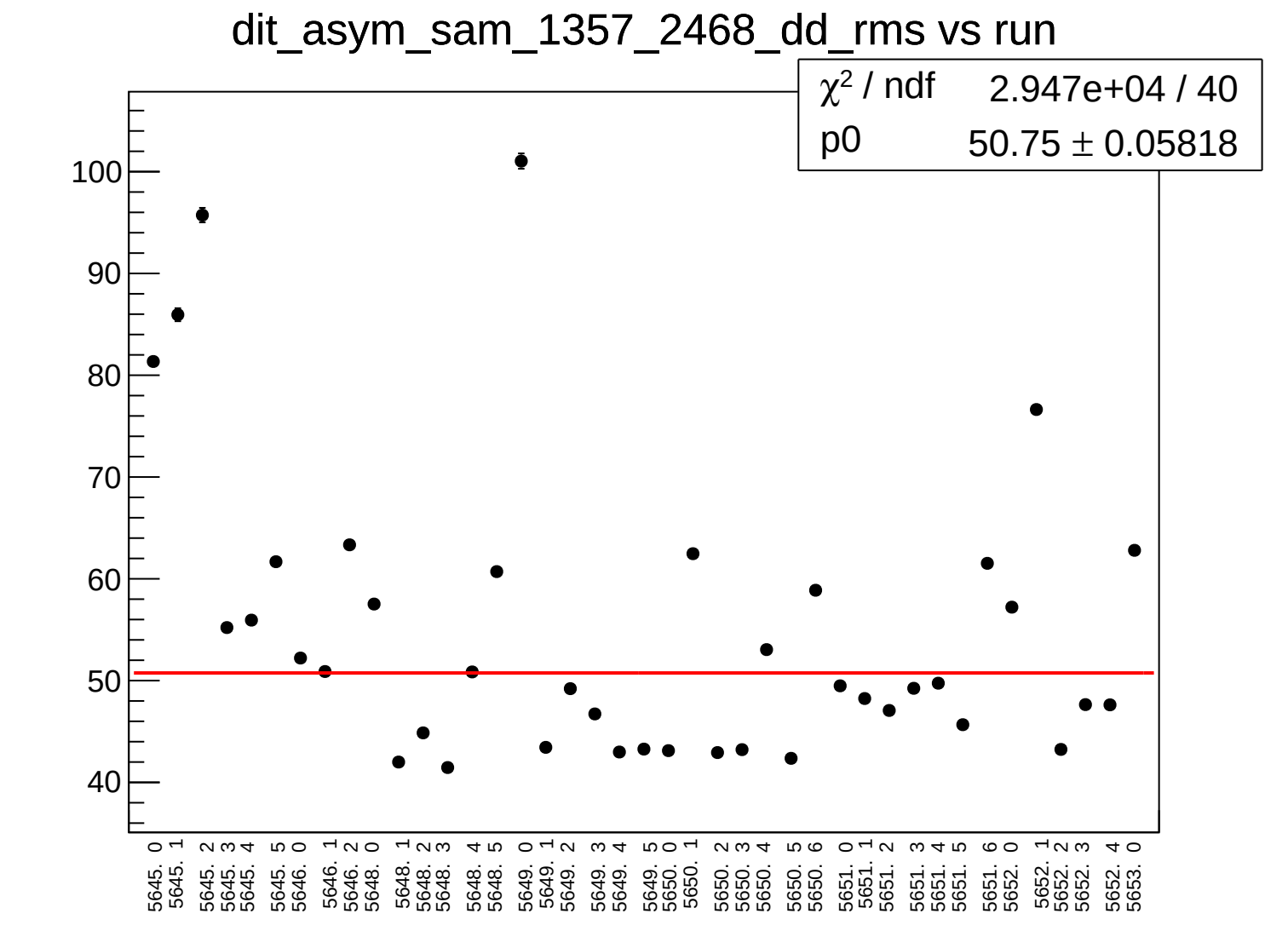

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 38.73 / 40
p0 −620 ± 897.3
pull
Entries 41
Mean 87.8
Std Dev 100.6

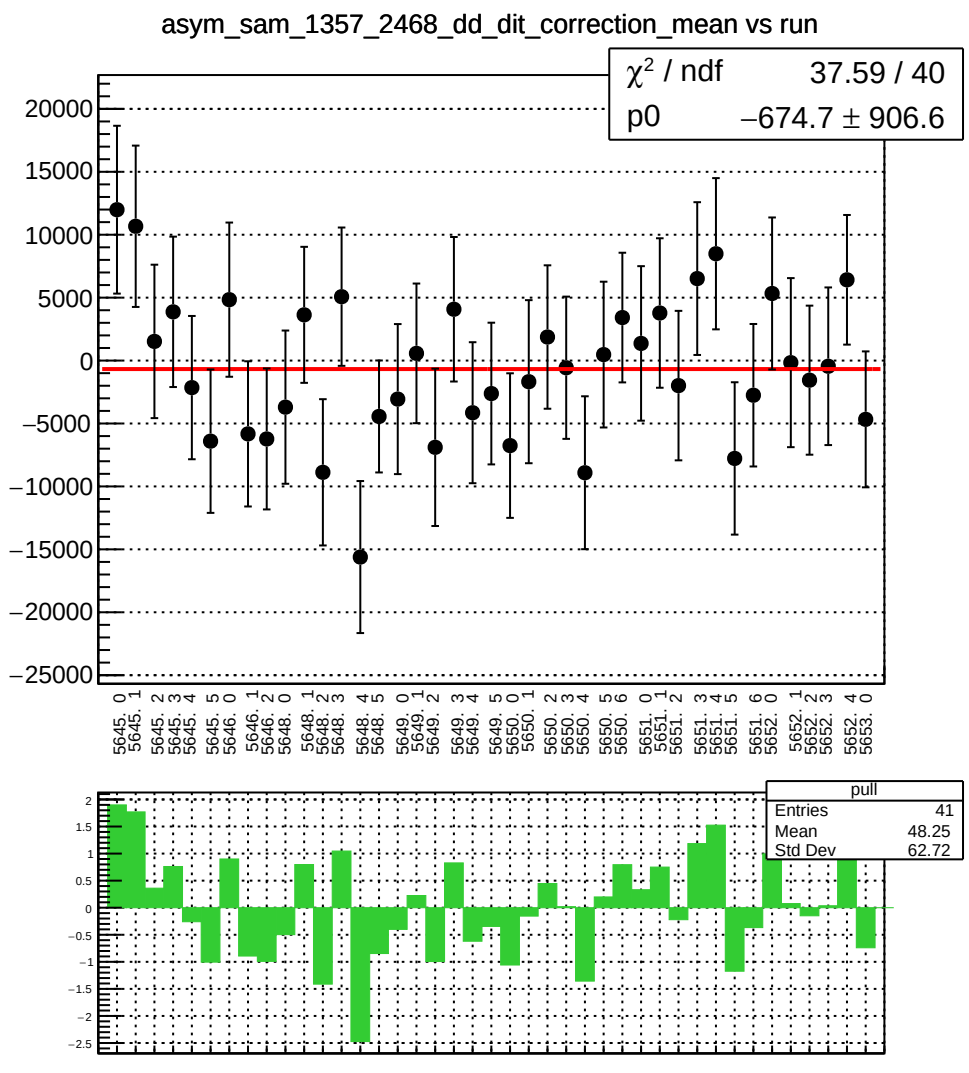

pull1D
Entries 41
Mean 0.002776
Std Dev 0.9719

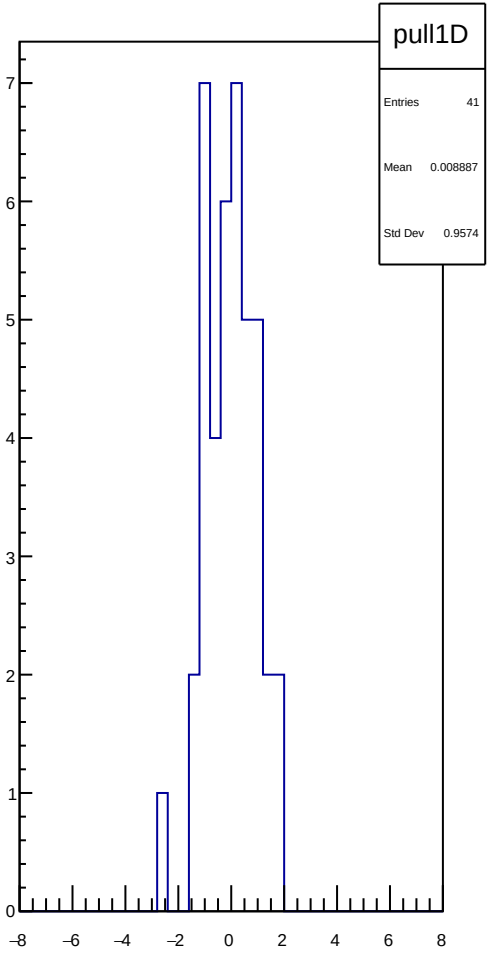

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3825 / 40
p0 562.7 ± 0.6345
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

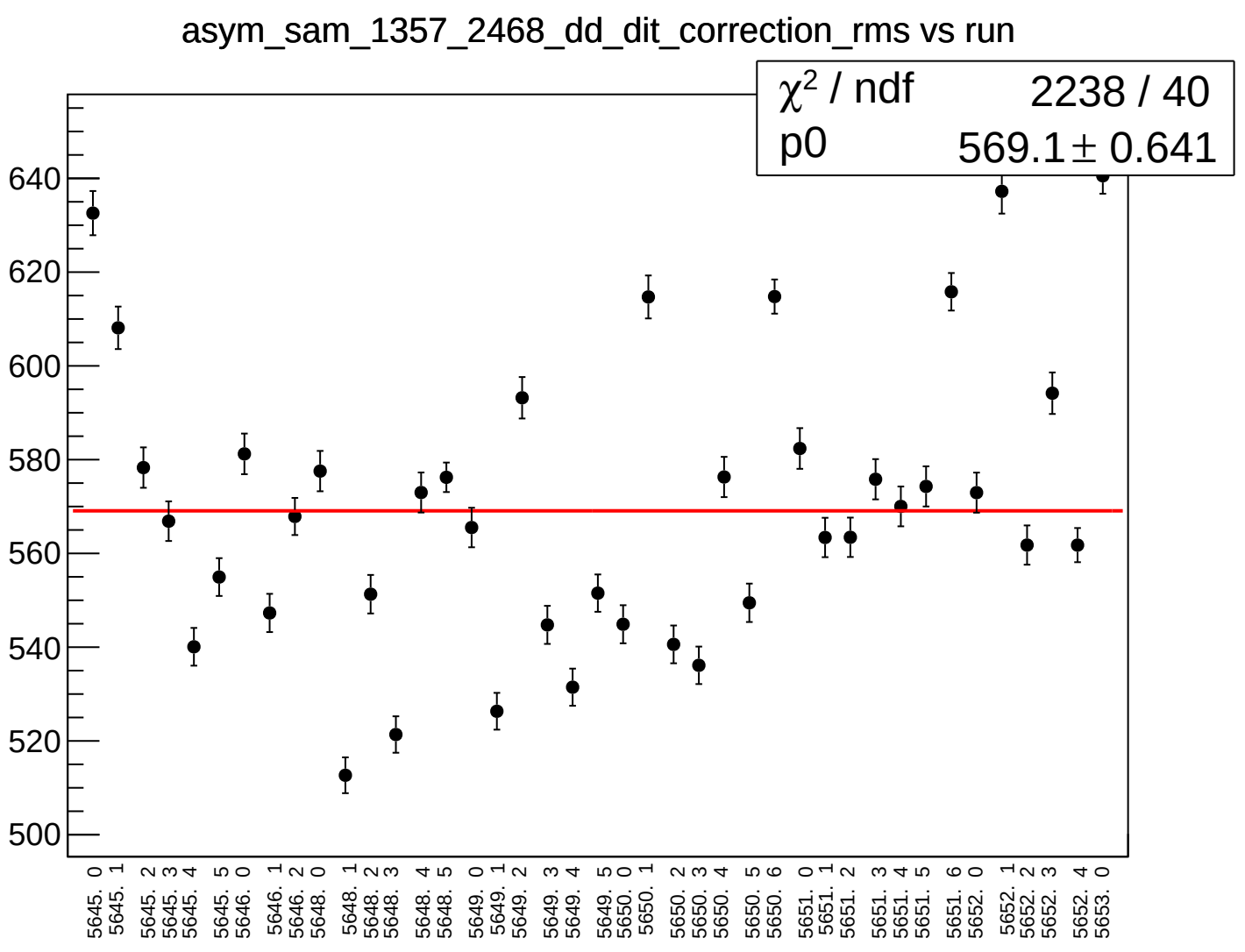

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 29.98 / 40
p0 19.71 ± 82.28
2000
1500
1000
500
0
−500
−1000
−1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1

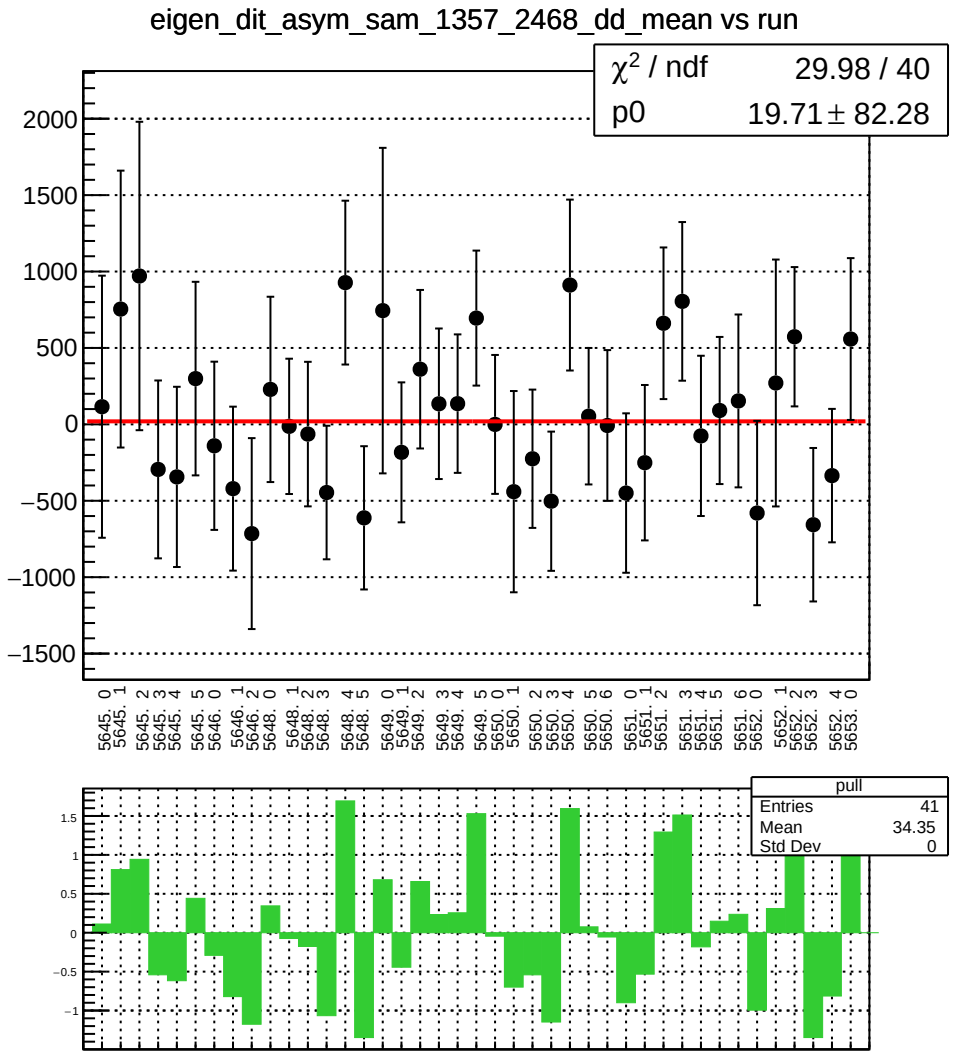

pull1D
Entries 41
Mean 0.0317
Std Dev 0.8545
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

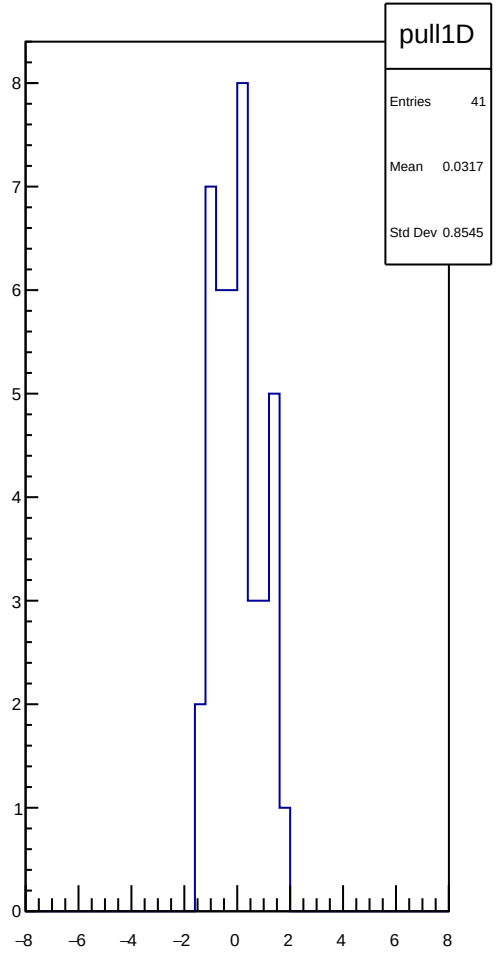

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.947e+04 / 40
p0 50.75 ± 0.05818
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

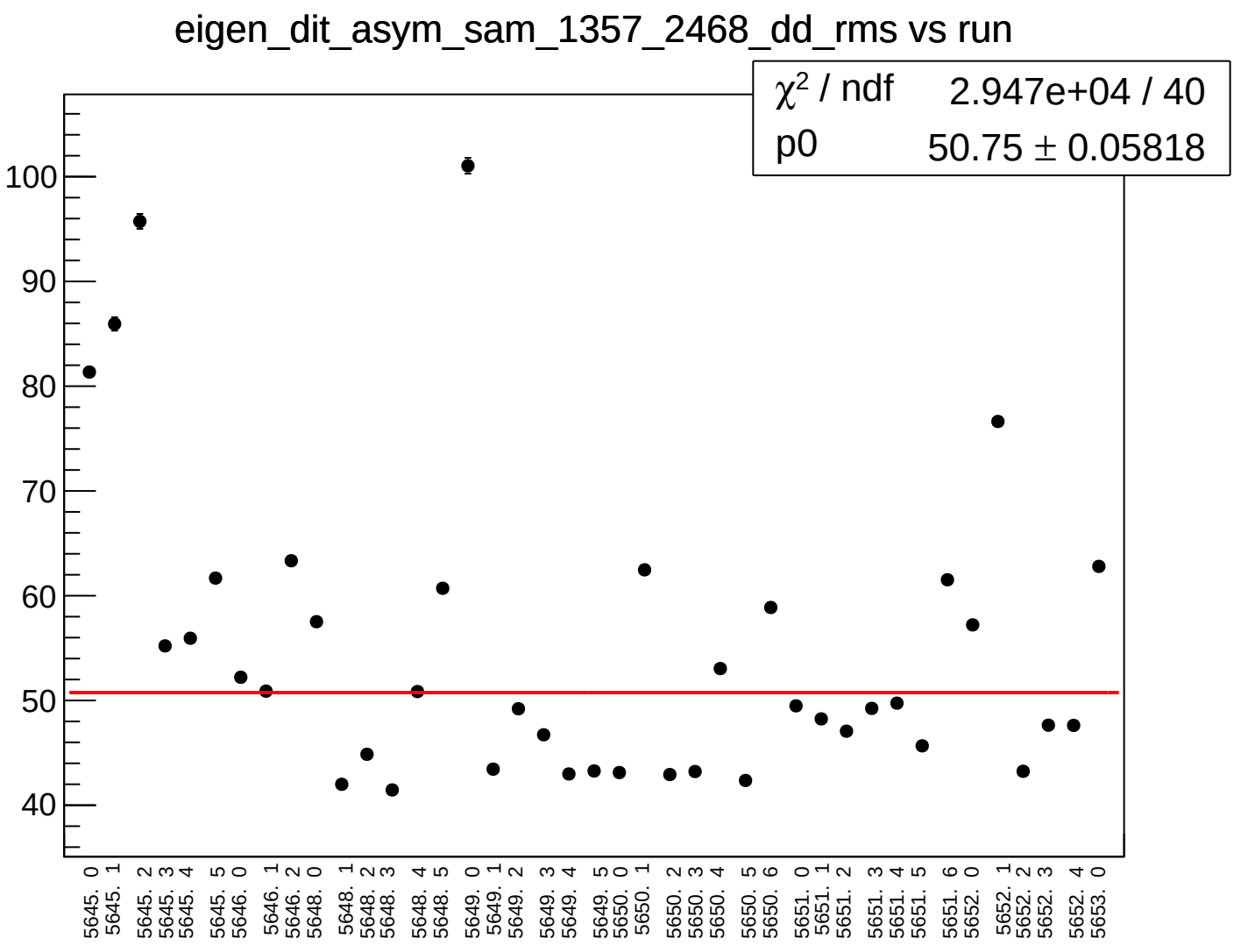

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 37.59 / 40
p0 −674.7 ± 906.6
pull
Entries 41
Mean 48.25
Std Dev 62.72

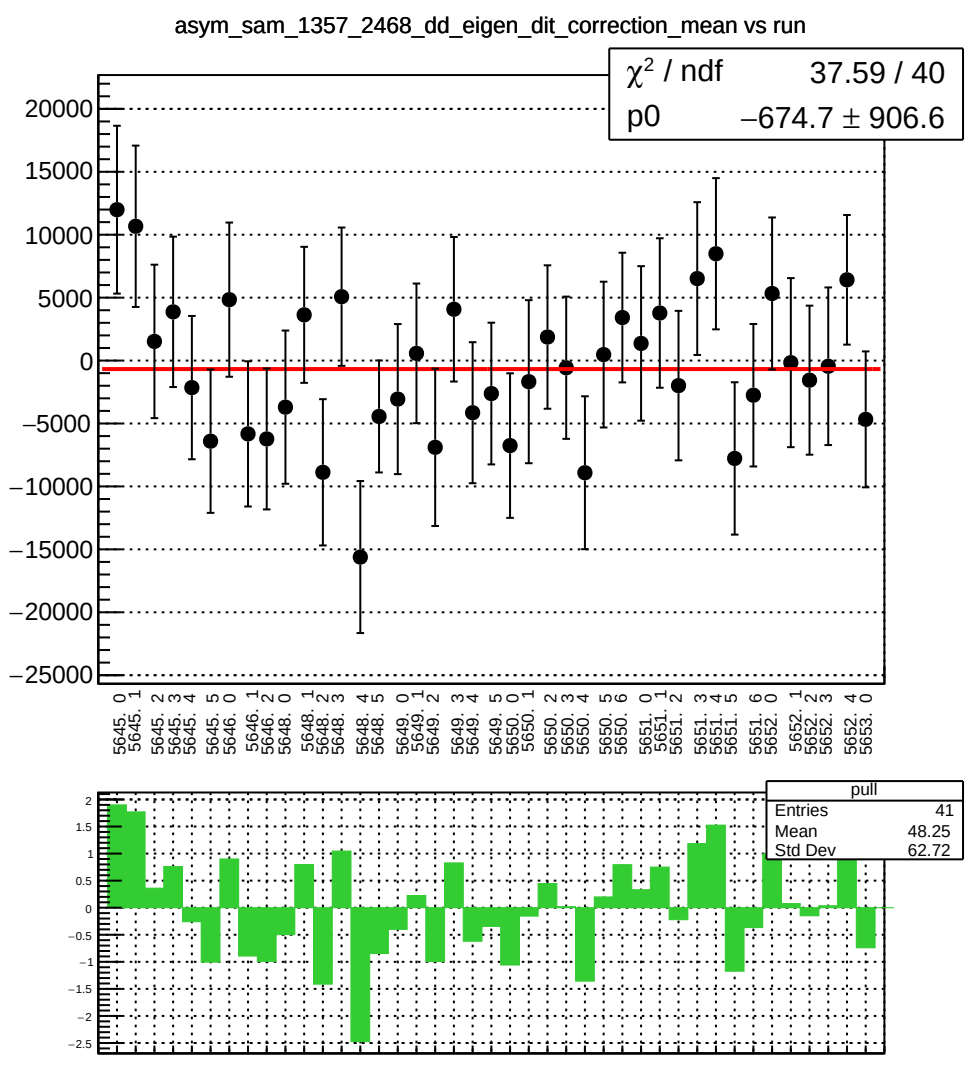

pull1D
Entries 41
Mean 0.008887
Std Dev 0.9574

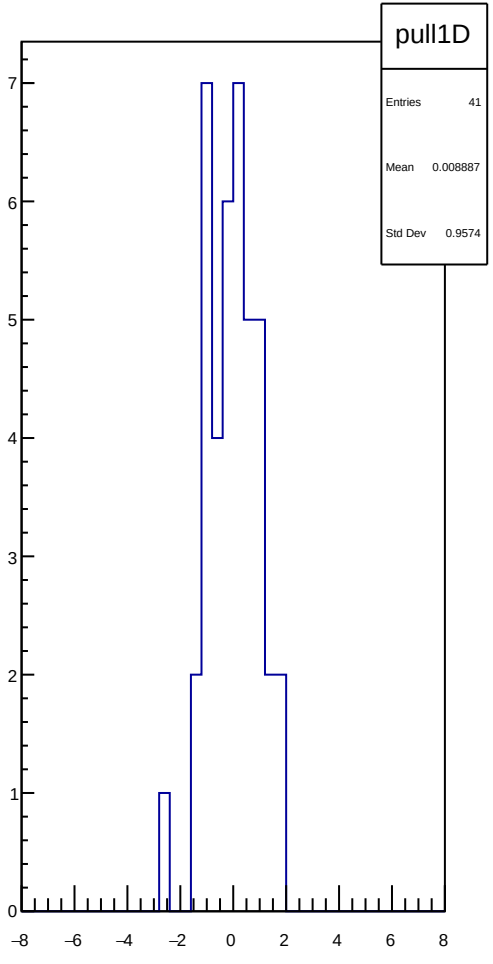

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2238 / 40
p0 569.1 ± 0.641
640
620
600
580
560
540
520
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

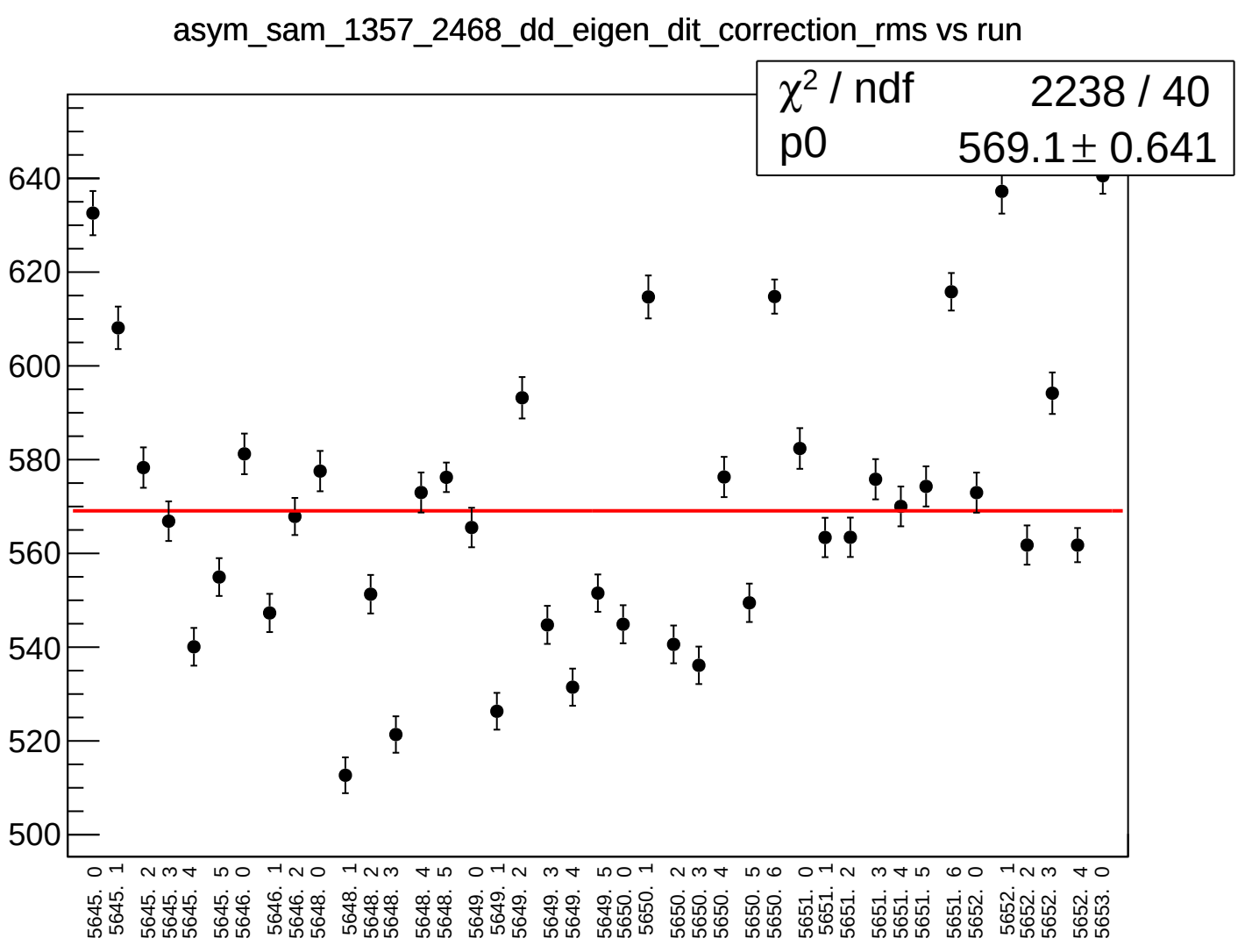

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 29.98 / 40
p0 19.71 ± 82.28
2000
1500
1000
500
0
−500
−1000
−1500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 34.35
Std Dev 0
1.5
1
0.5
0
−0.5
−1

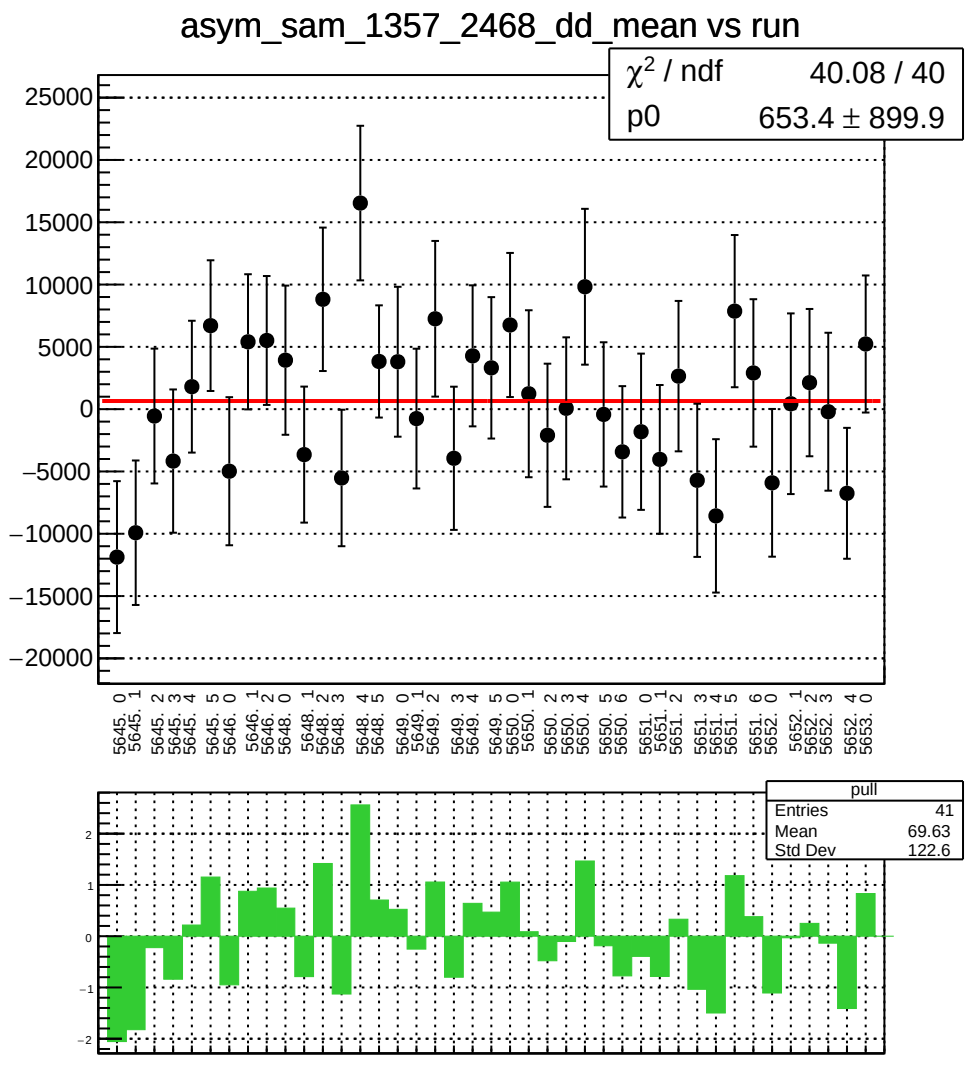

pull1D
Entries 41
Mean 0.0317
Std Dev 0.8545
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

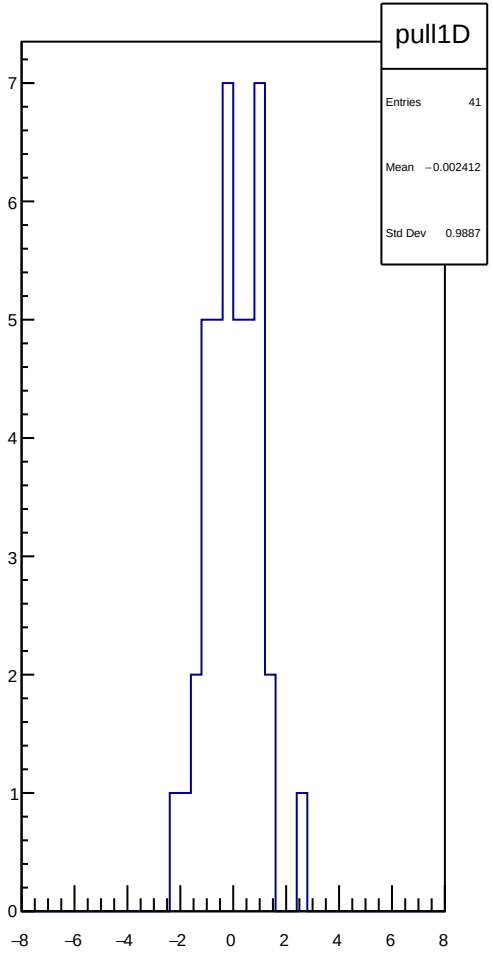

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.947e+04 / 40
p0 50.75 ± 0.05818
100
90
80
70
60
50
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

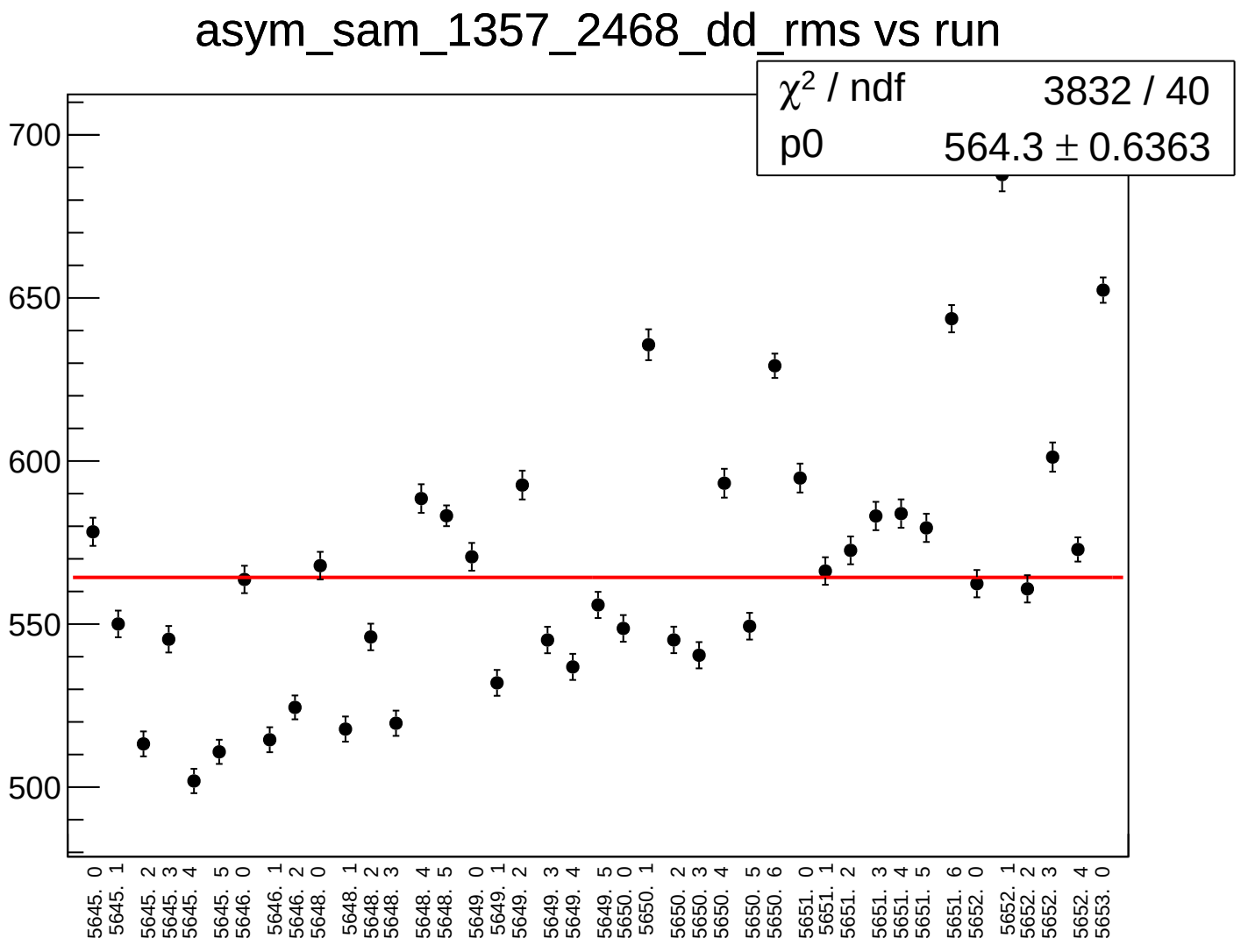

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.59 / 40
p0 −674.7 ± 906.6
pull
Entries 41
Mean 48.25
Std Dev 62.72

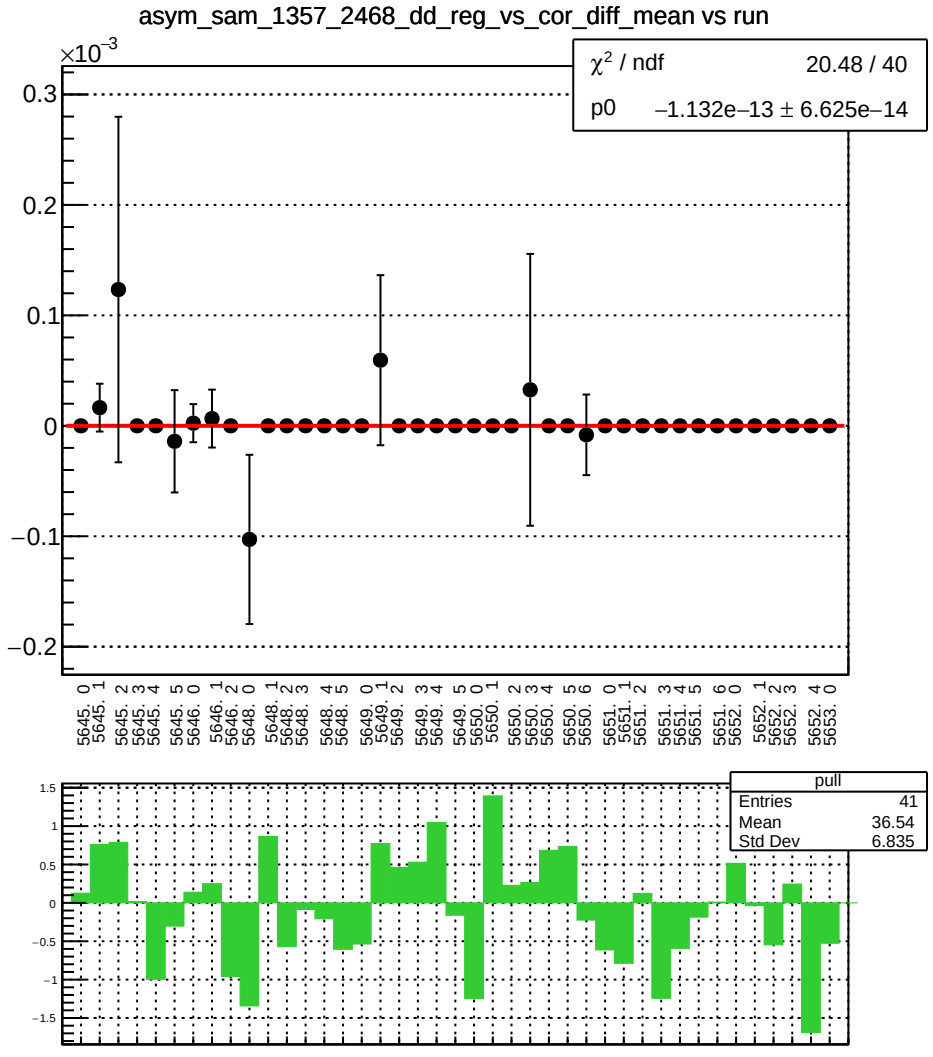

pull1D
Entries 41
Mean 0.008887
Std Dev 0.9574

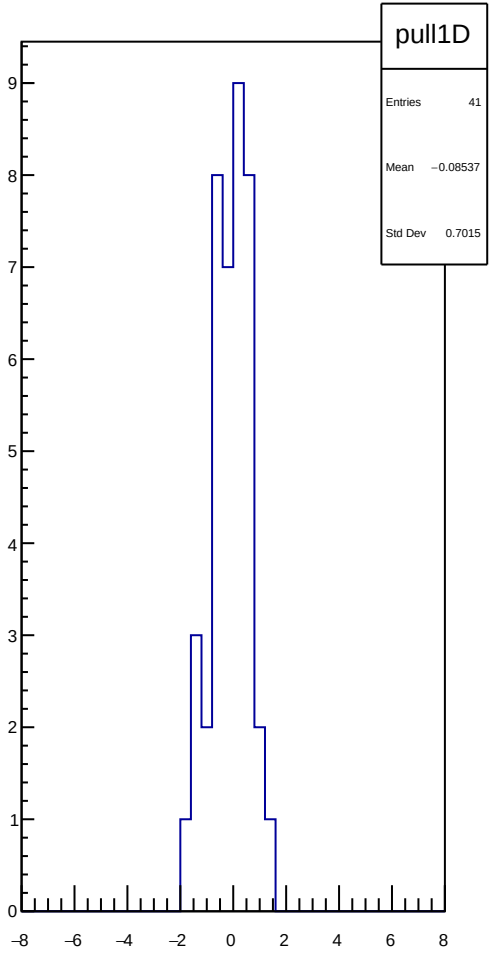

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2238 / 40
p0 569.1 ± 0.641
640
620
600
580
560
540
520
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

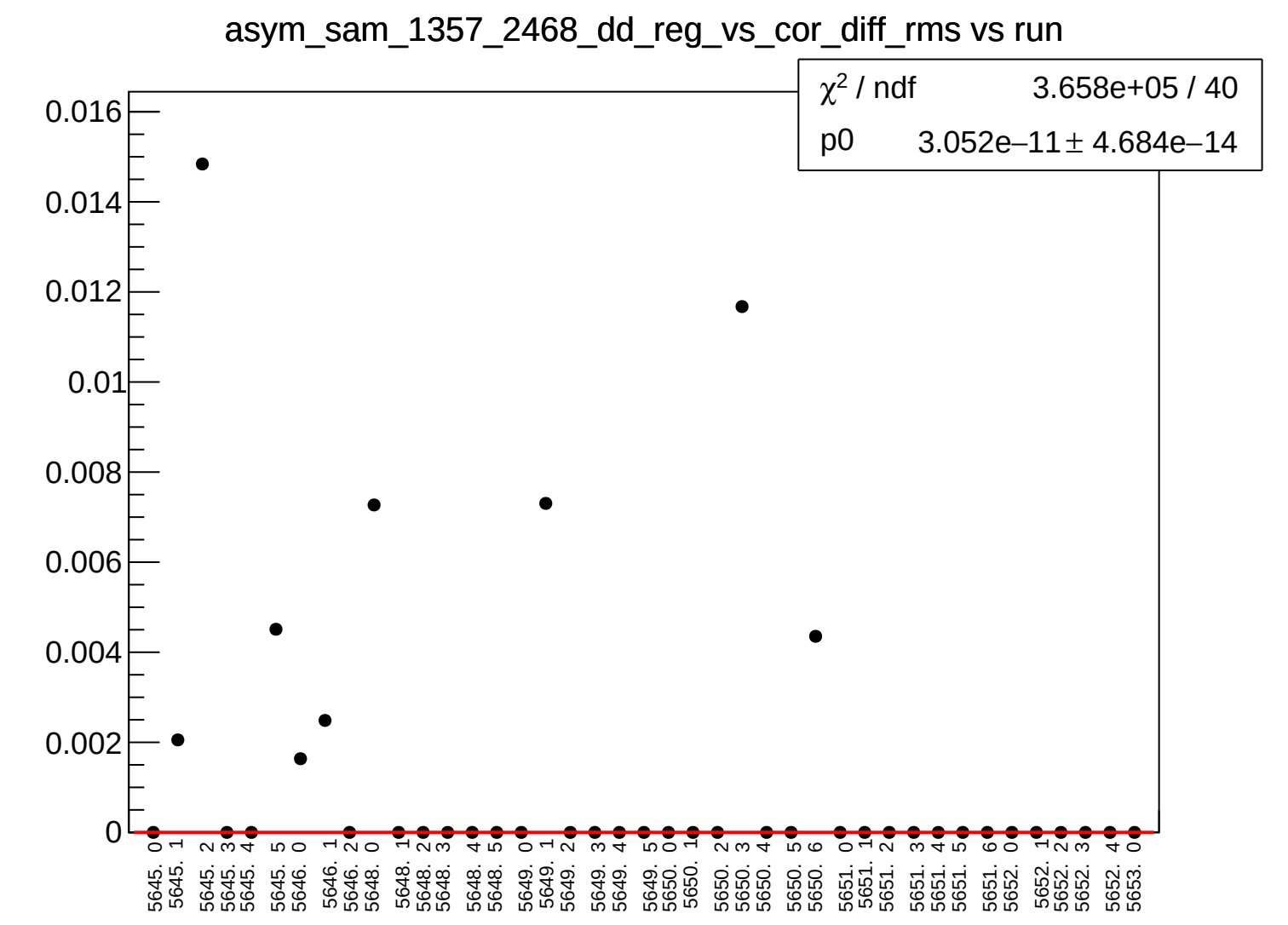

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.08 / 40
p0 653.4 ± 899.9
pull
Entries 41
Mean 69.63
Std Dev 122.6

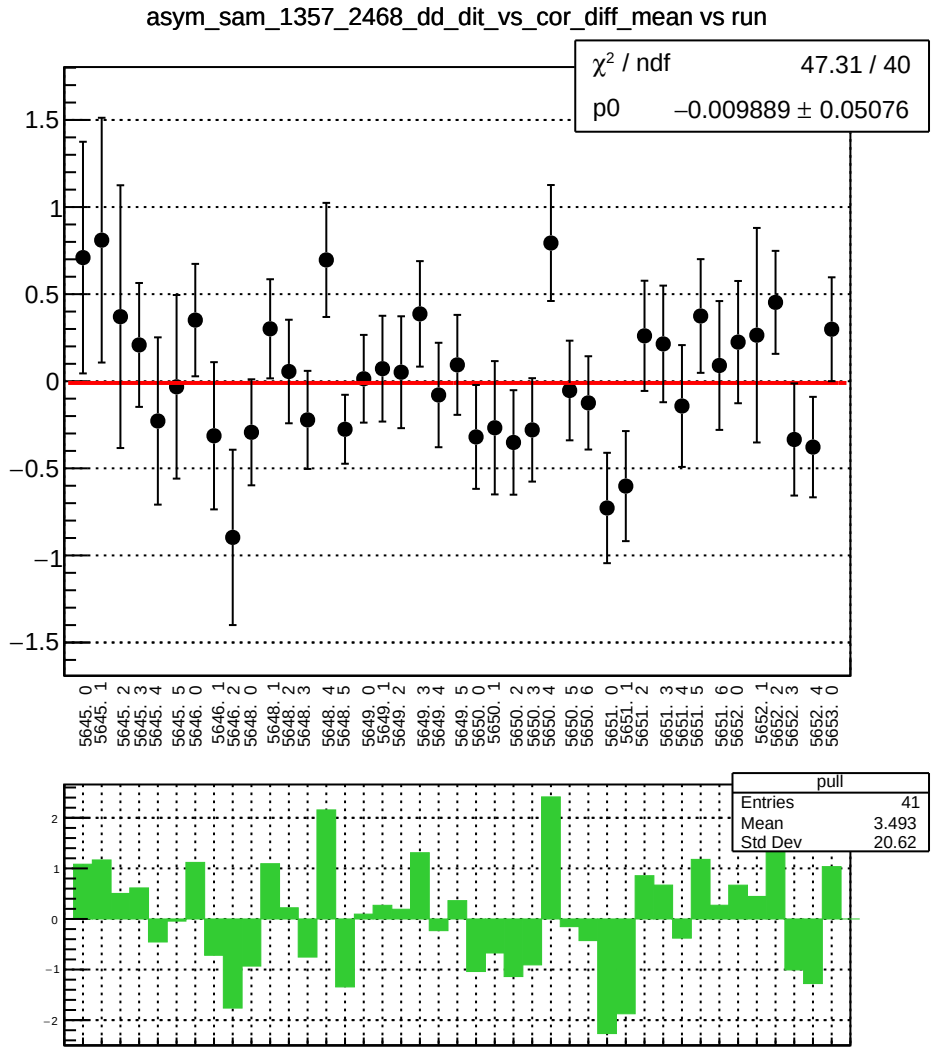

pull1D
Entries 41
Mean −0.002412
Std Dev 0.9887

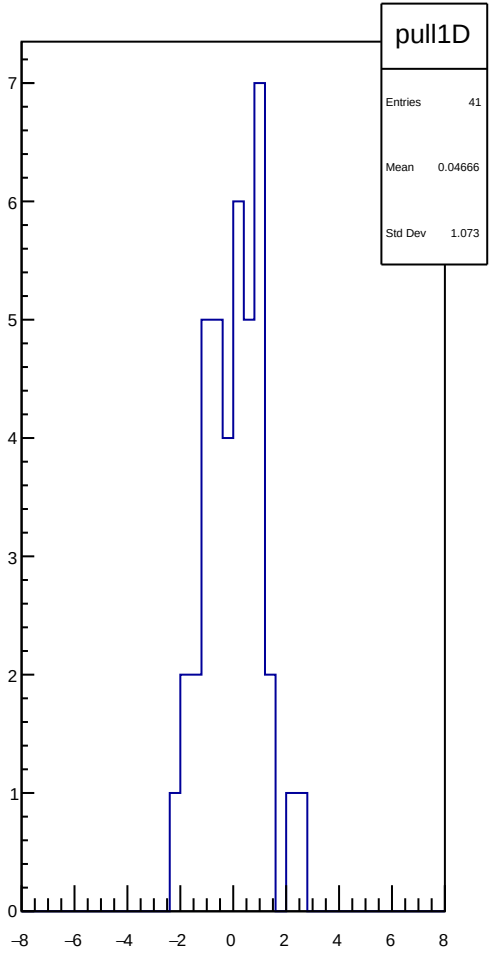

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3832 / 40
p0 564.3 ± 0.6363
700
650
600
550
500
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

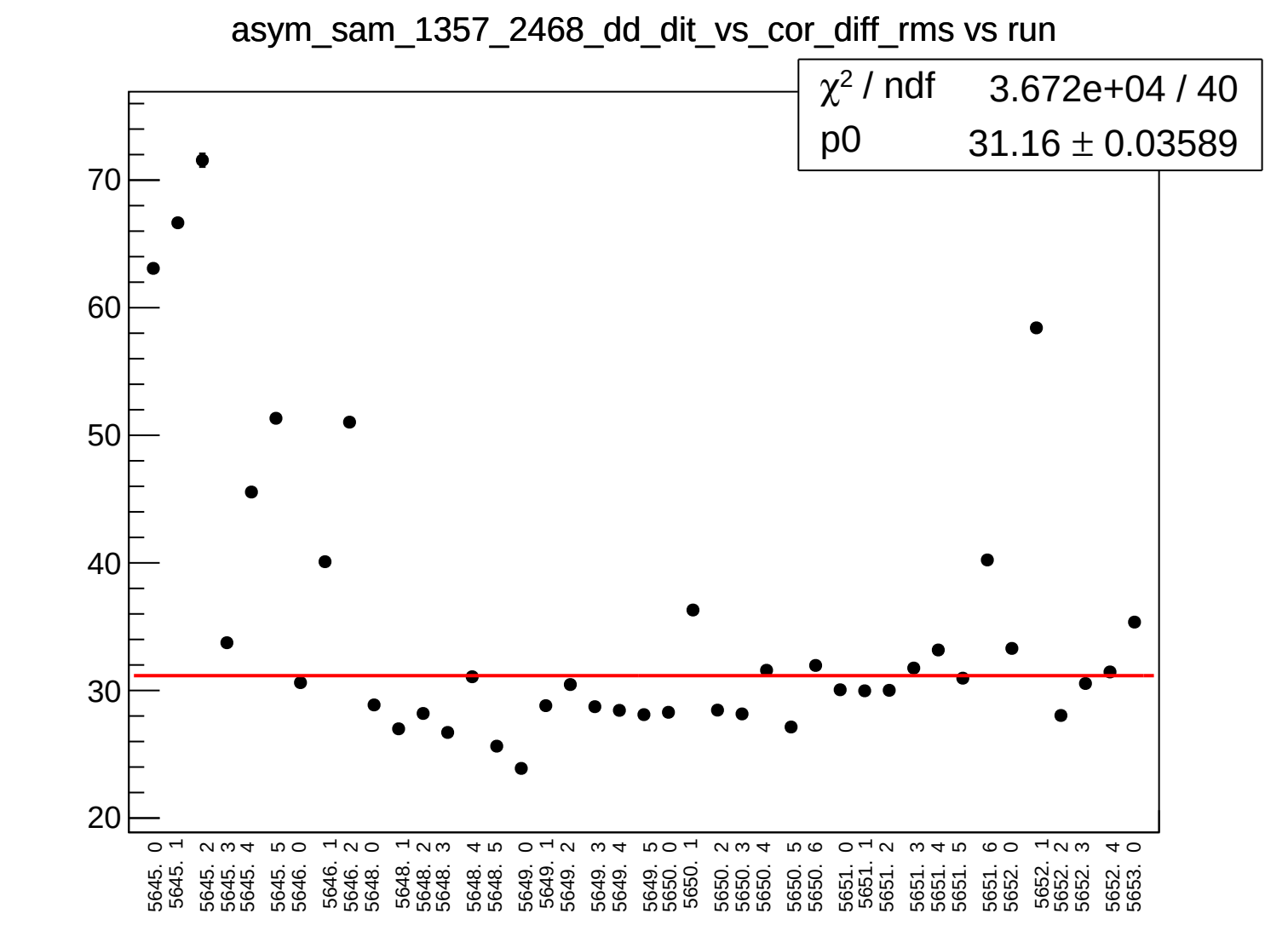

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 20.48 / 40
p0 −1.132e−13 ± 6.625e−14
0.3
0.2
0.1
0
−0.1
−0.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 36.54
Std Dev 6.835
1.5
1
0.5
0
−0.5
−1
−1.5

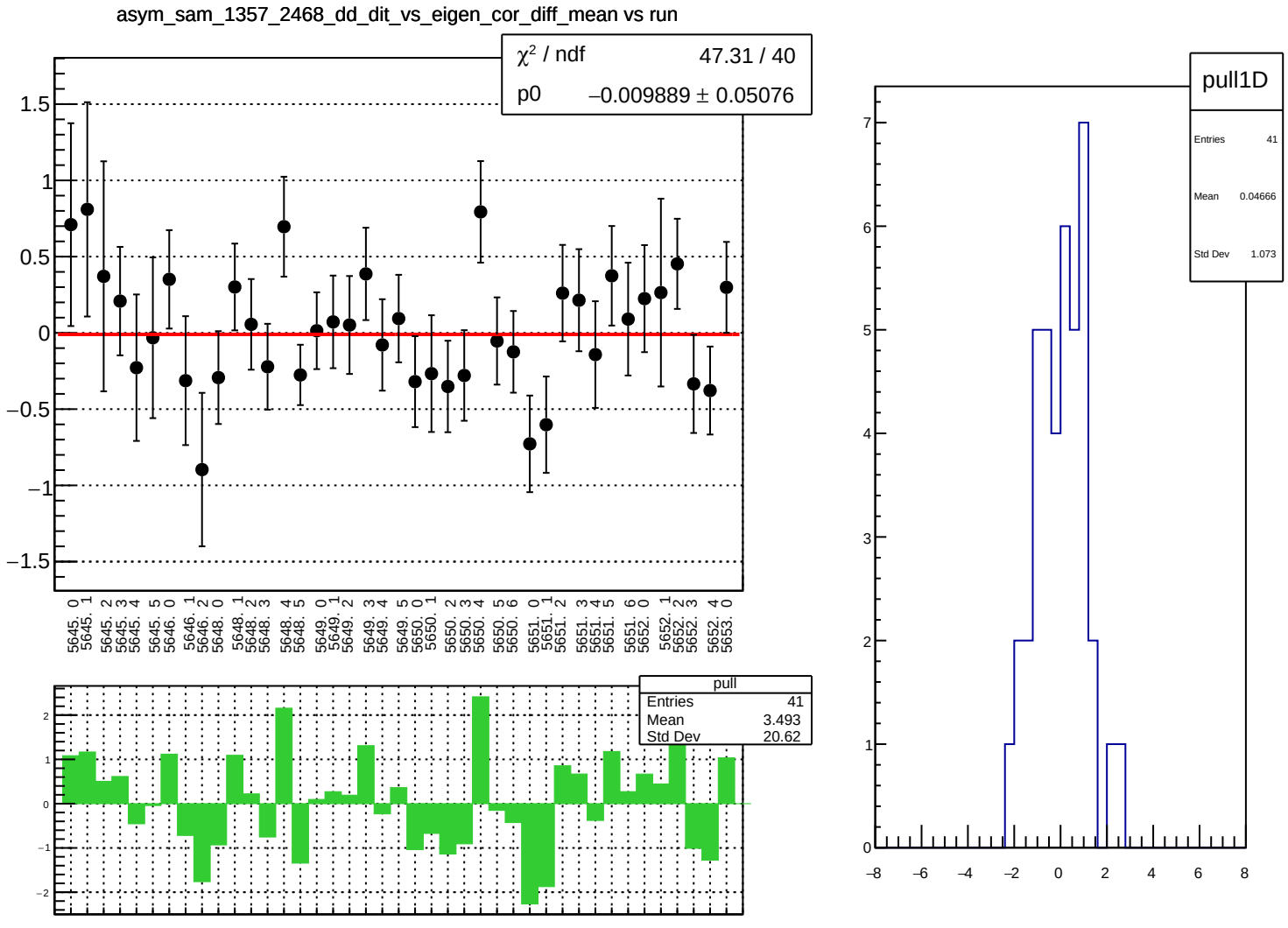

pull1D
Entries 41
Mean −0.08537
Std Dev 0.7015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

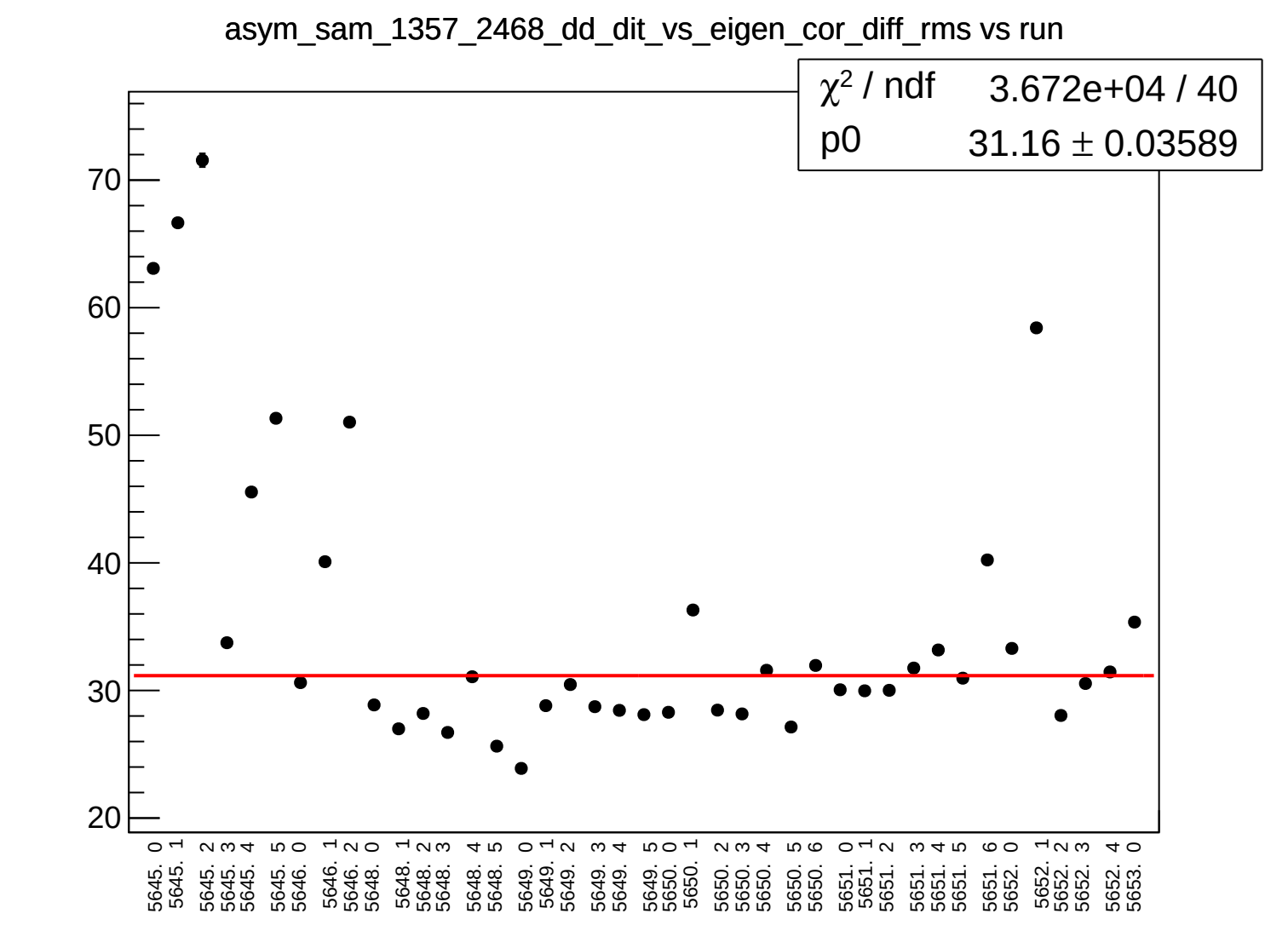

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.658e+05 / 40
p0 3.052e−11 ± 4.684e−14
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

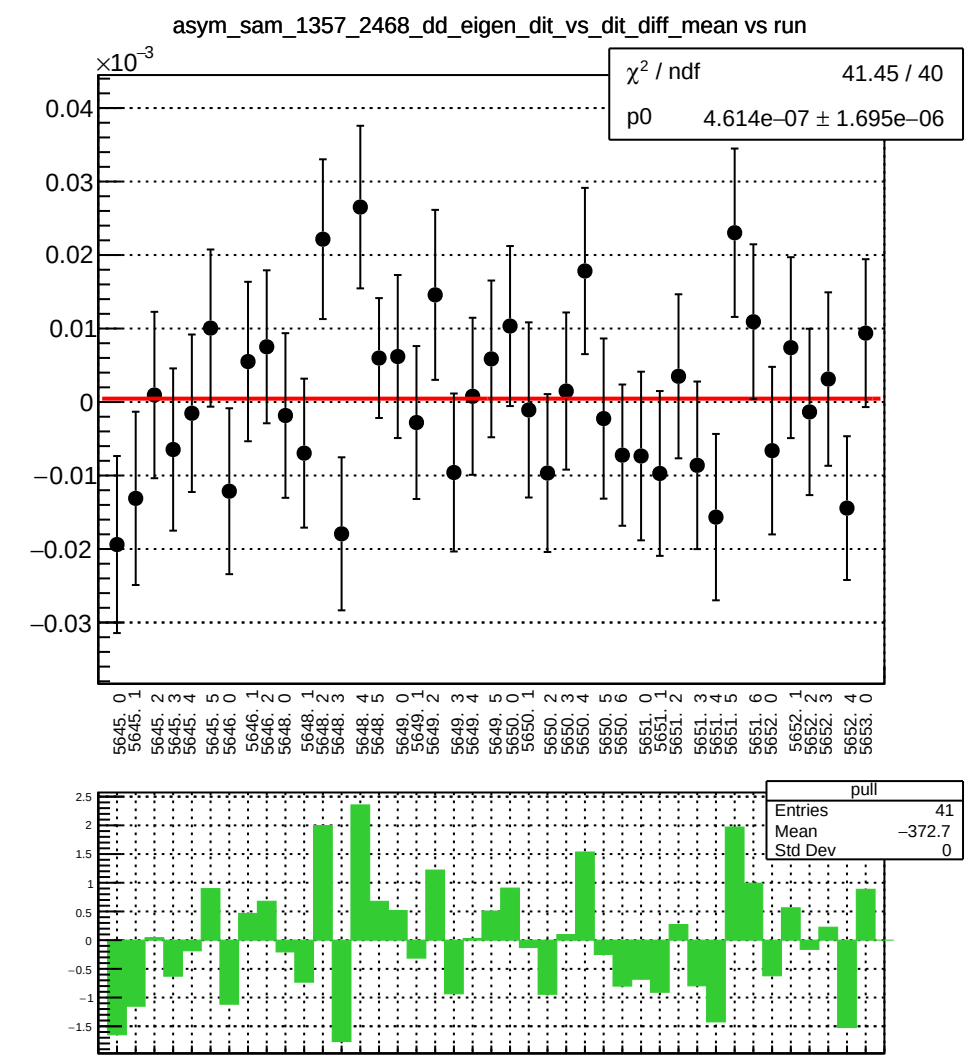

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.31 / 40
p0 −0.009889 ± 0.05076
1.5
1
0.5
0
−0.5
−1
−1.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 3.493
Std Dev 20.62
2
1
0
−1
−2

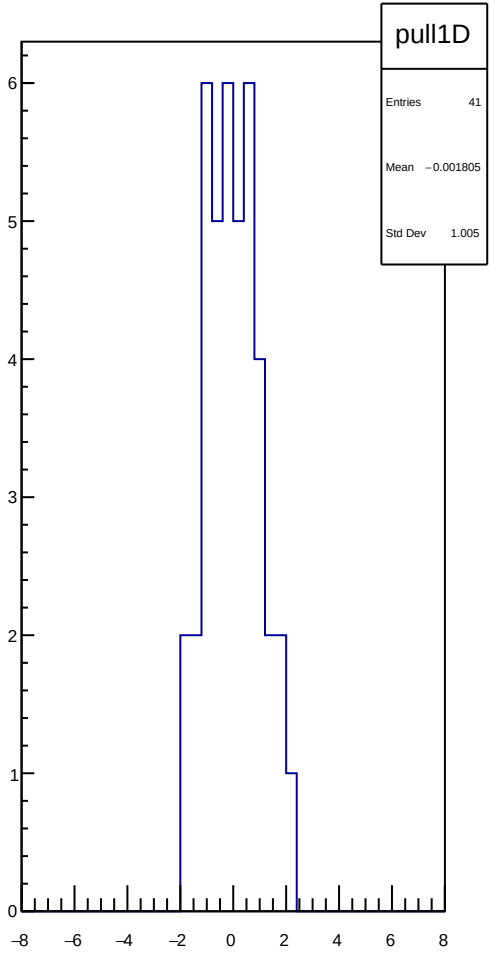

pull1D
Entries 41
Mean 0.04666
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

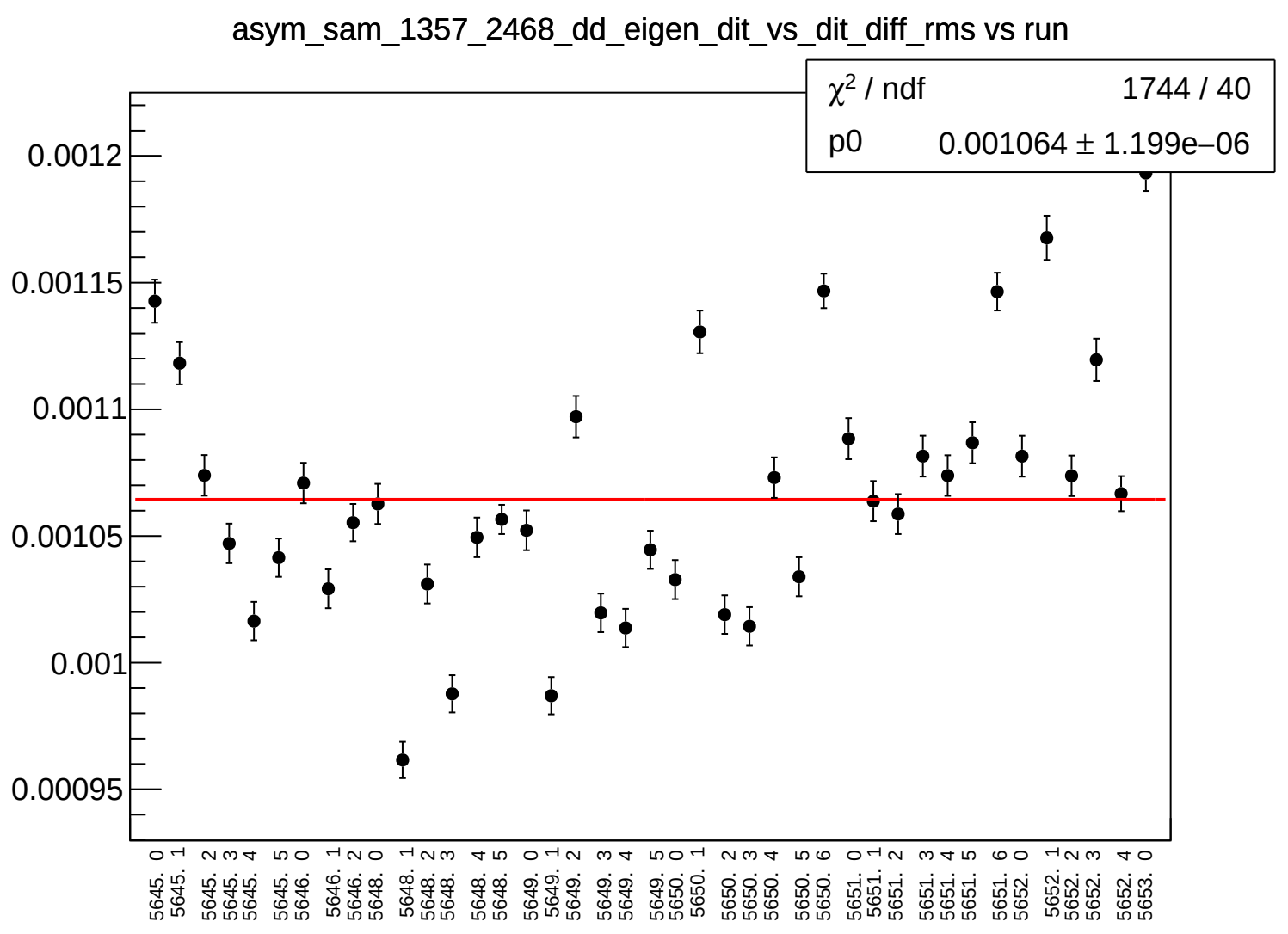

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.672e+04 / 40
p0 31.16 ± 0.03589
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

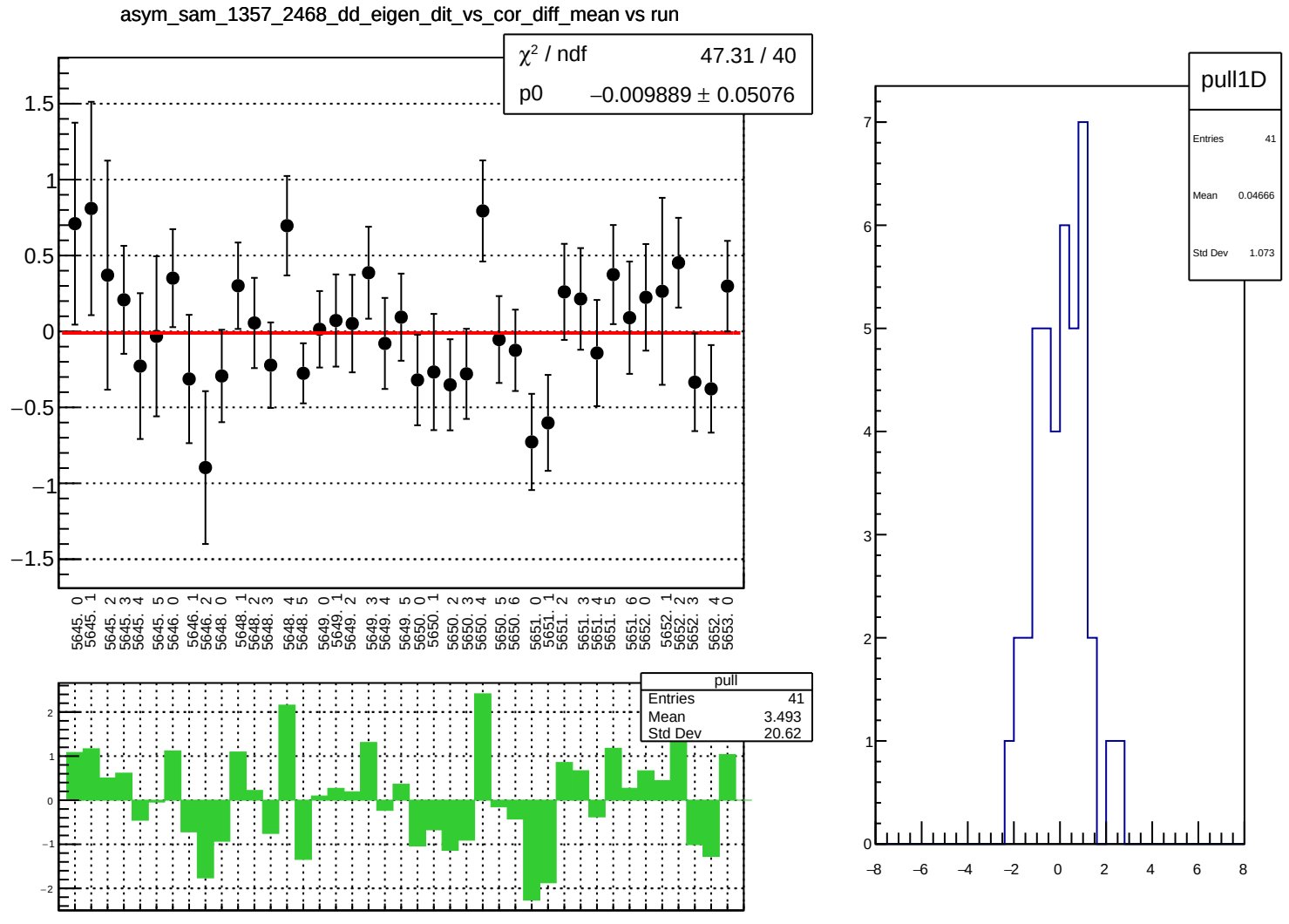

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.31 / 40
p0 −0.009889 ± 0.05076
1.5
1
0.5
0
−0.5
−1
−1.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 3.493
Std Dev 20.62
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.04666
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

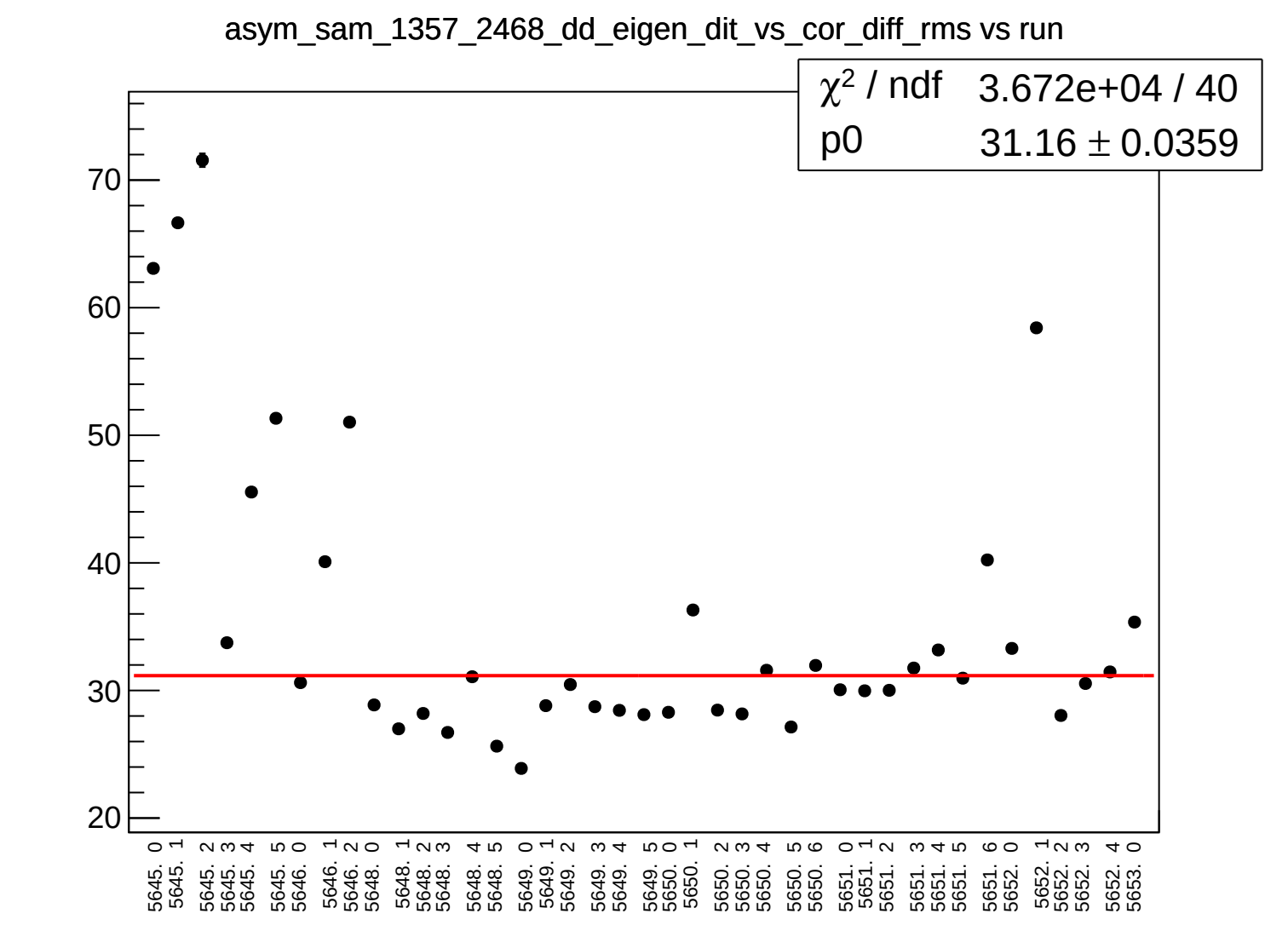

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.672e+04 / 40
p0 31.16 ± 0.03589
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

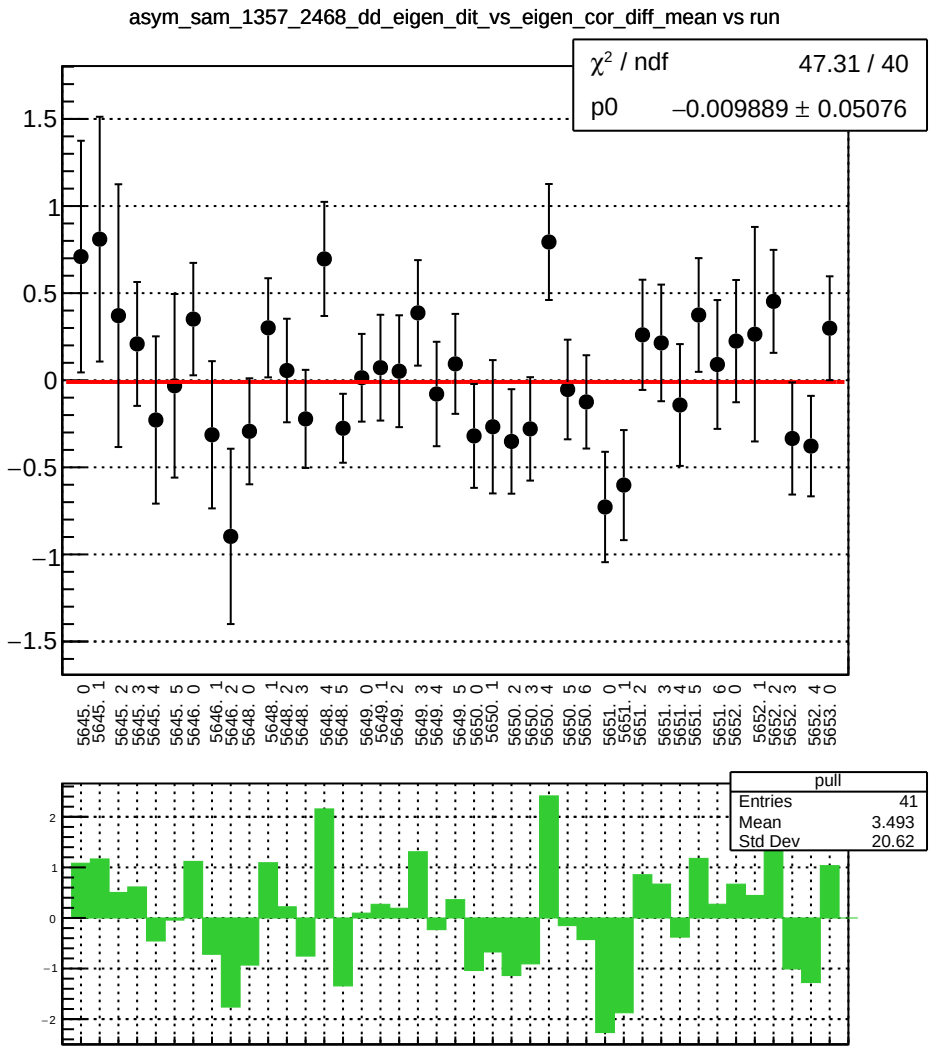

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 41.45 / 40
p0 4.614e−07 ± 1.695e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −372.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

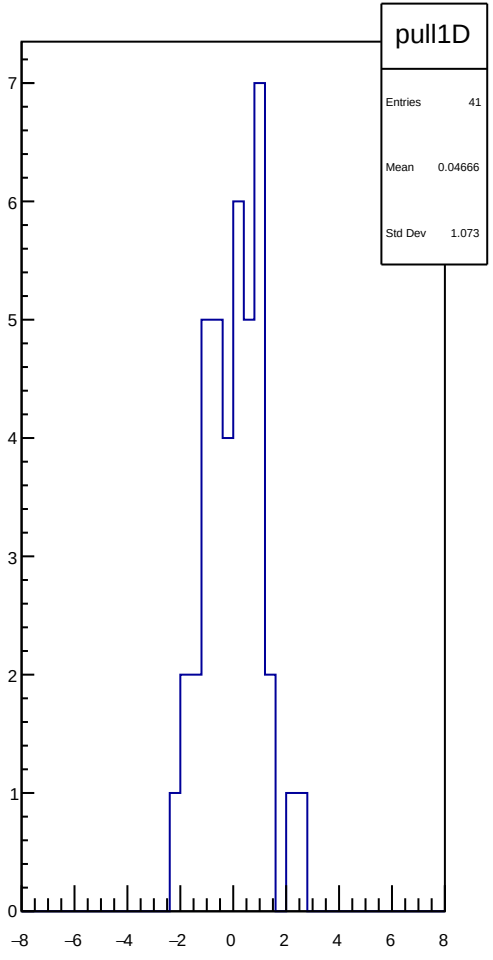

pull1D
Entries 41
Mean −0.001805
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

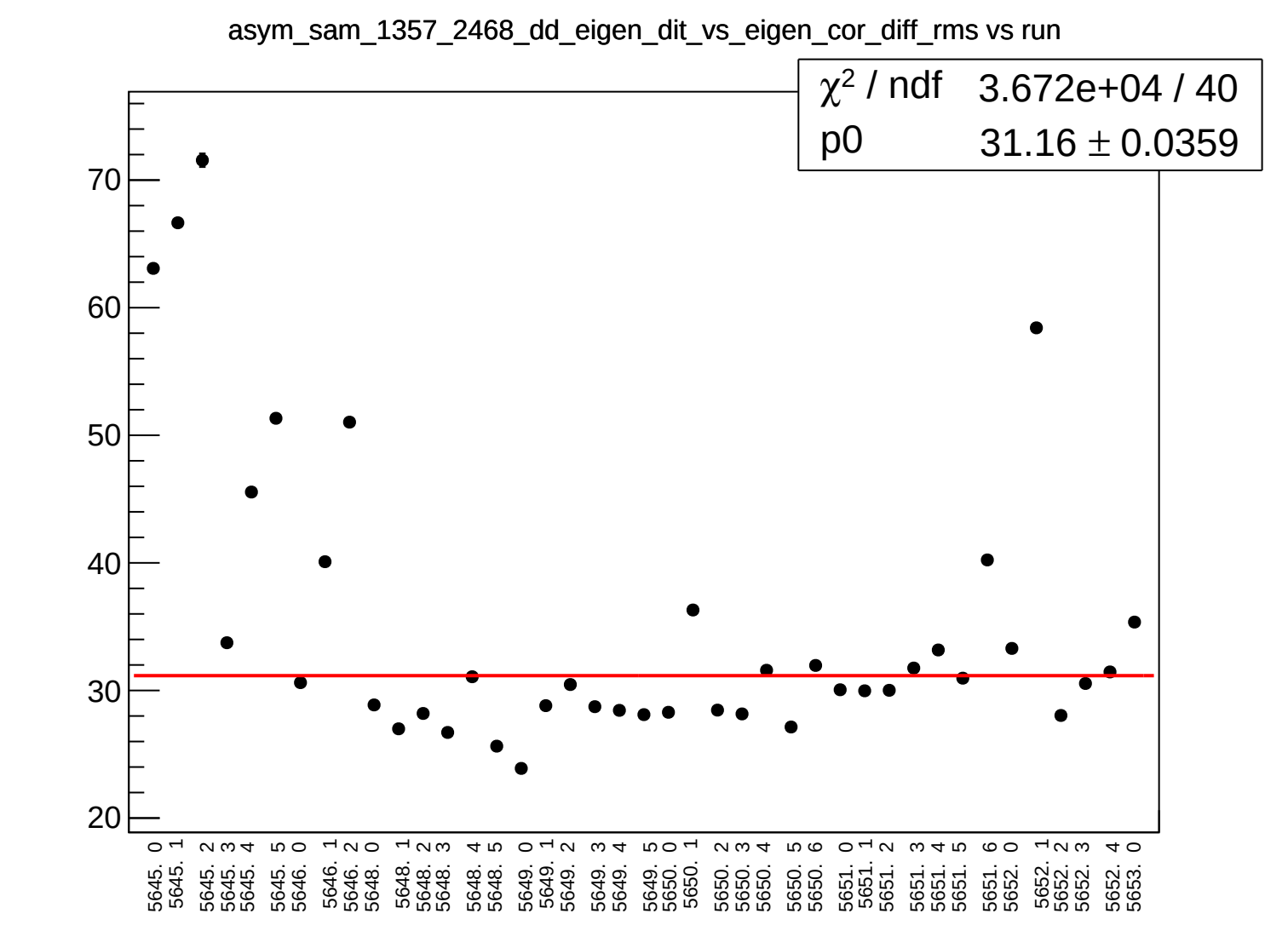

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1744 / 40
p0 0.001064 ± 1.199e−06
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

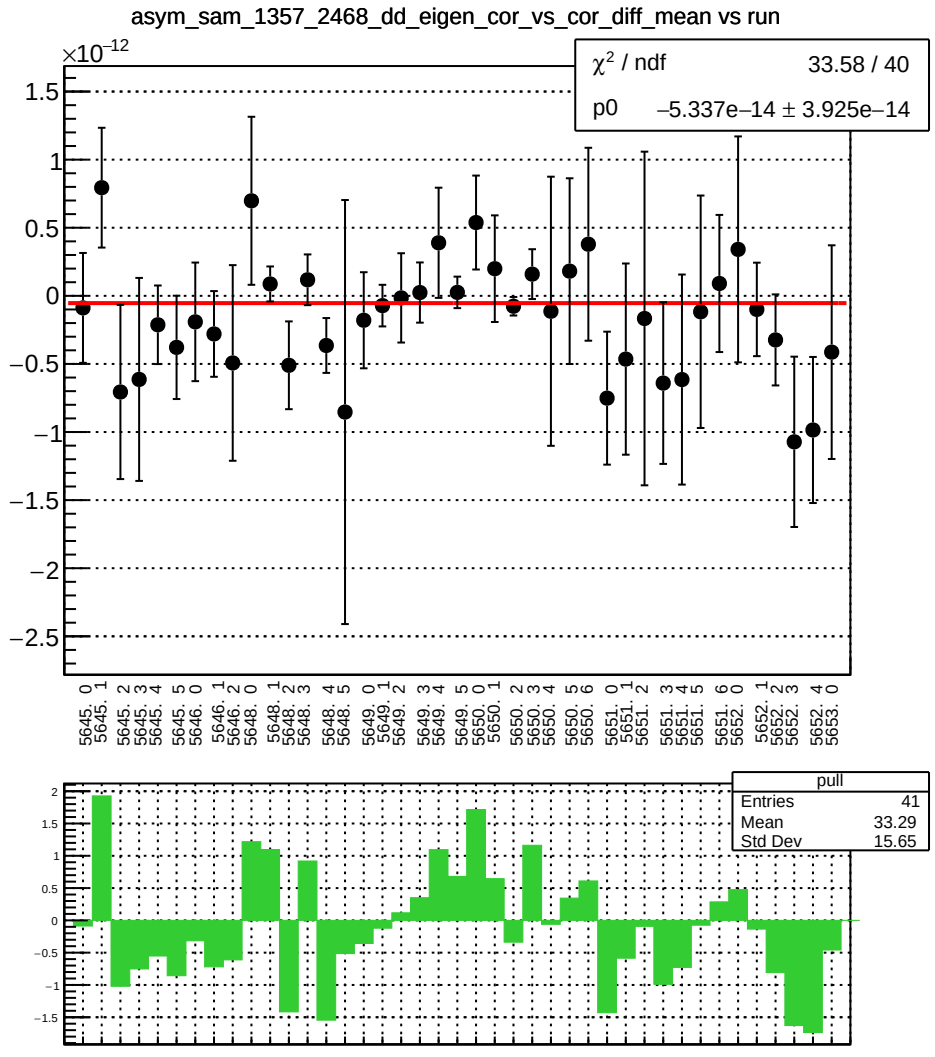

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.31 / 40
p0 −0.009889 ± 0.05076
1.5
1
0.5
0
−0.5
−1
−1.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 3.493
Std Dev 20.62
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.04666
Std Dev 1.073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

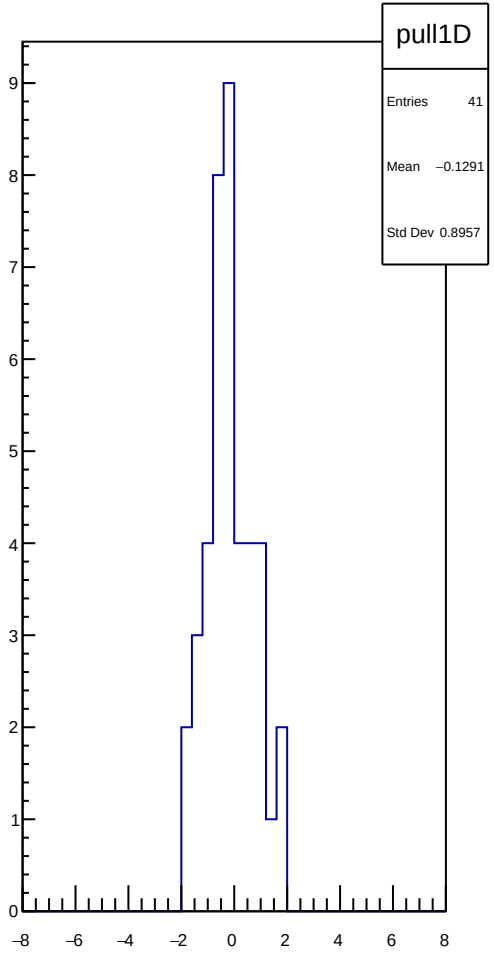

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.672e+04 / 40
p0 31.16 ± 0.0359
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

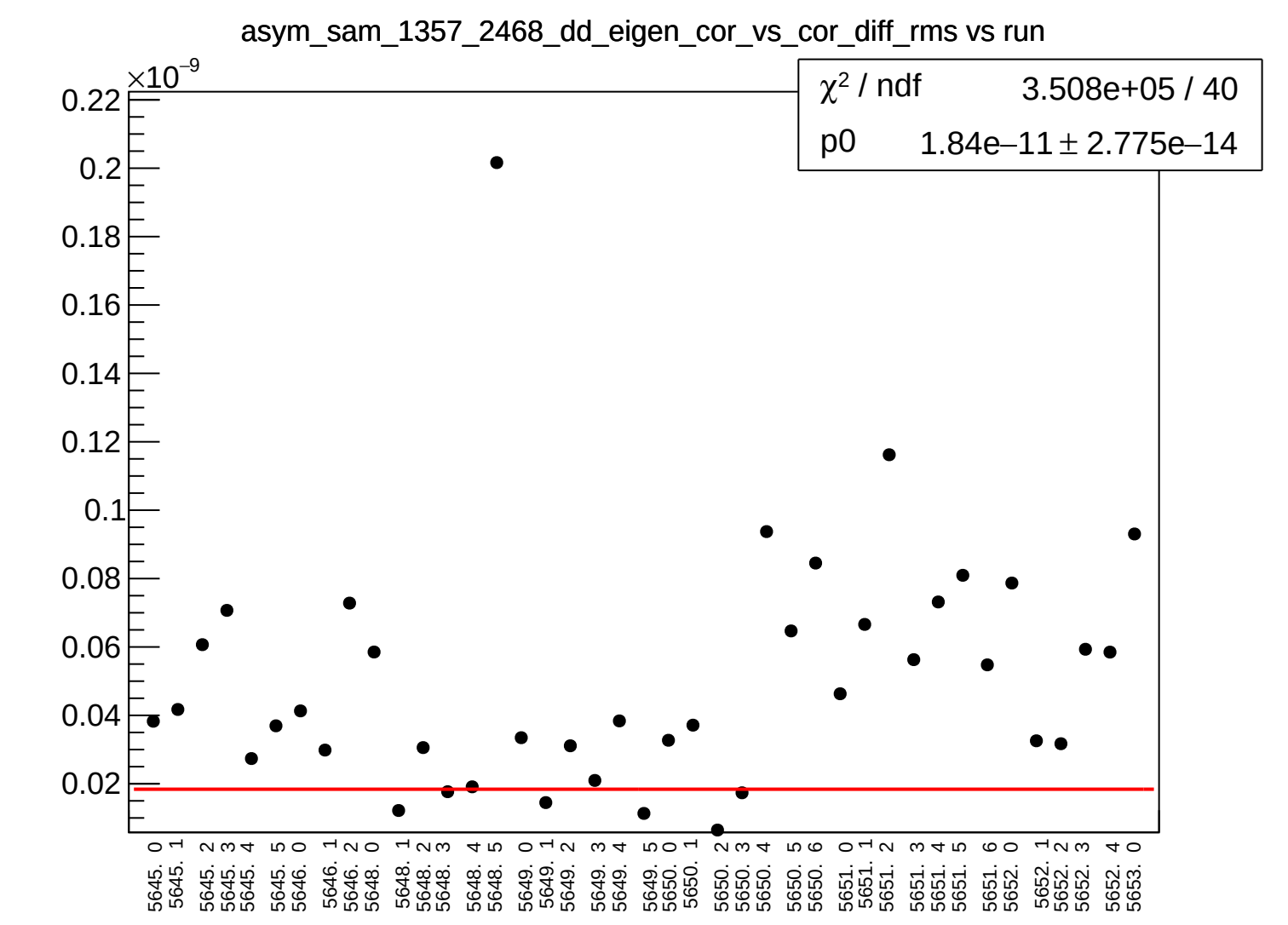

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.31 / 40
p0 −0.009889 ± 0.05076
pull
Entries 41
Mean 3.493
Std Dev 20.62

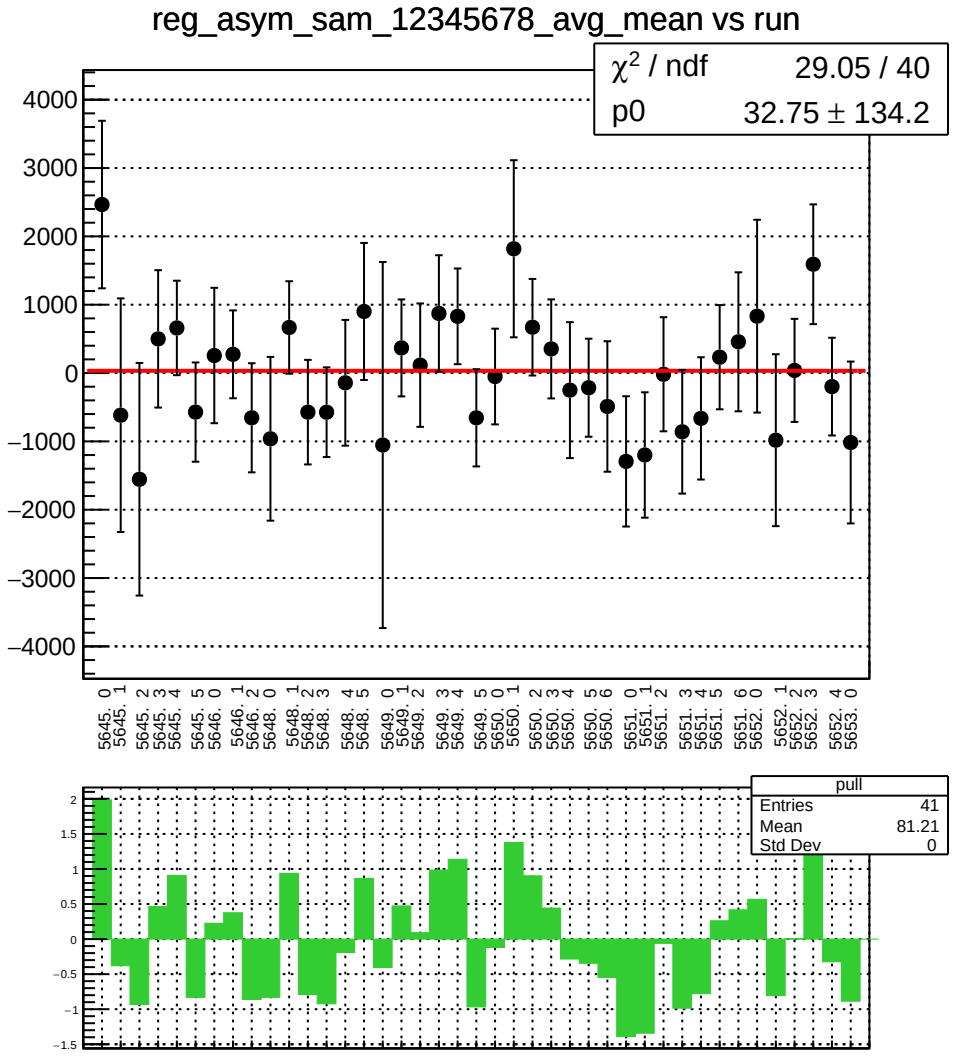

pull1D
Entries 41
Mean 0.04666
Std Dev 1.073

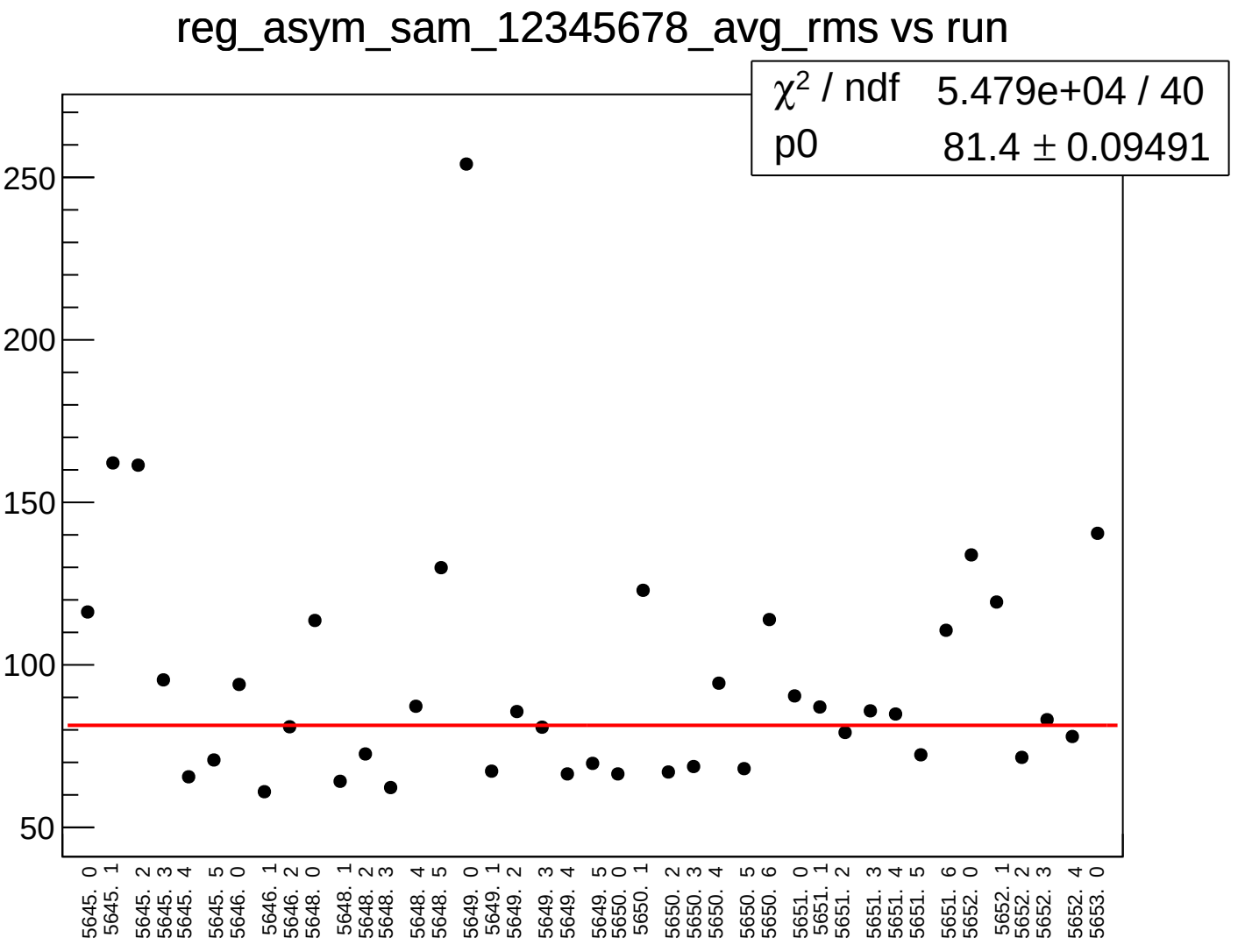

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.672e+04 / 40
p0 31.16 ± 0.0359
70
60
50
40
30
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

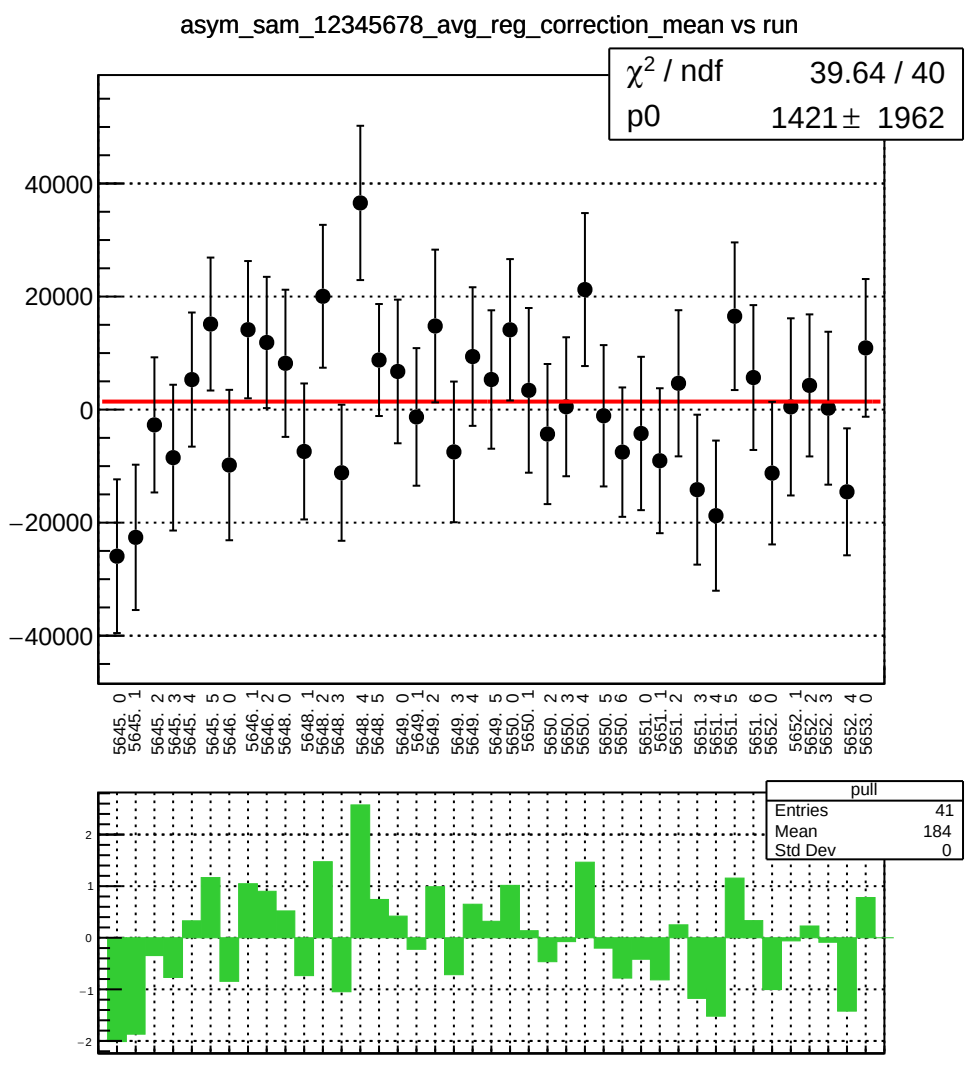

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 33.58 / 40
p0 −5.337e−14 ± 3.925e−14
pull
Entries 41
Mean 33.29
Std Dev 15.65

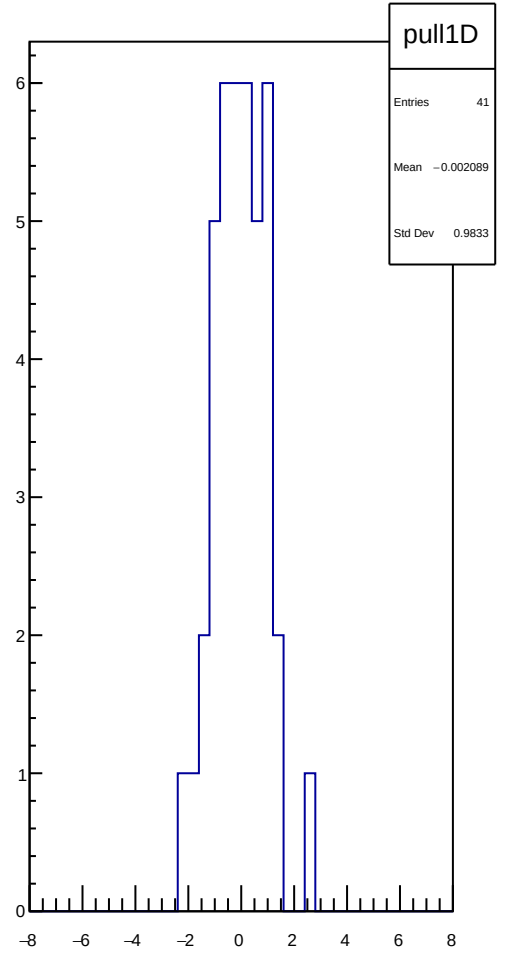

pull1D
Entries 41
Mean −0.1291
Std Dev 0.8957

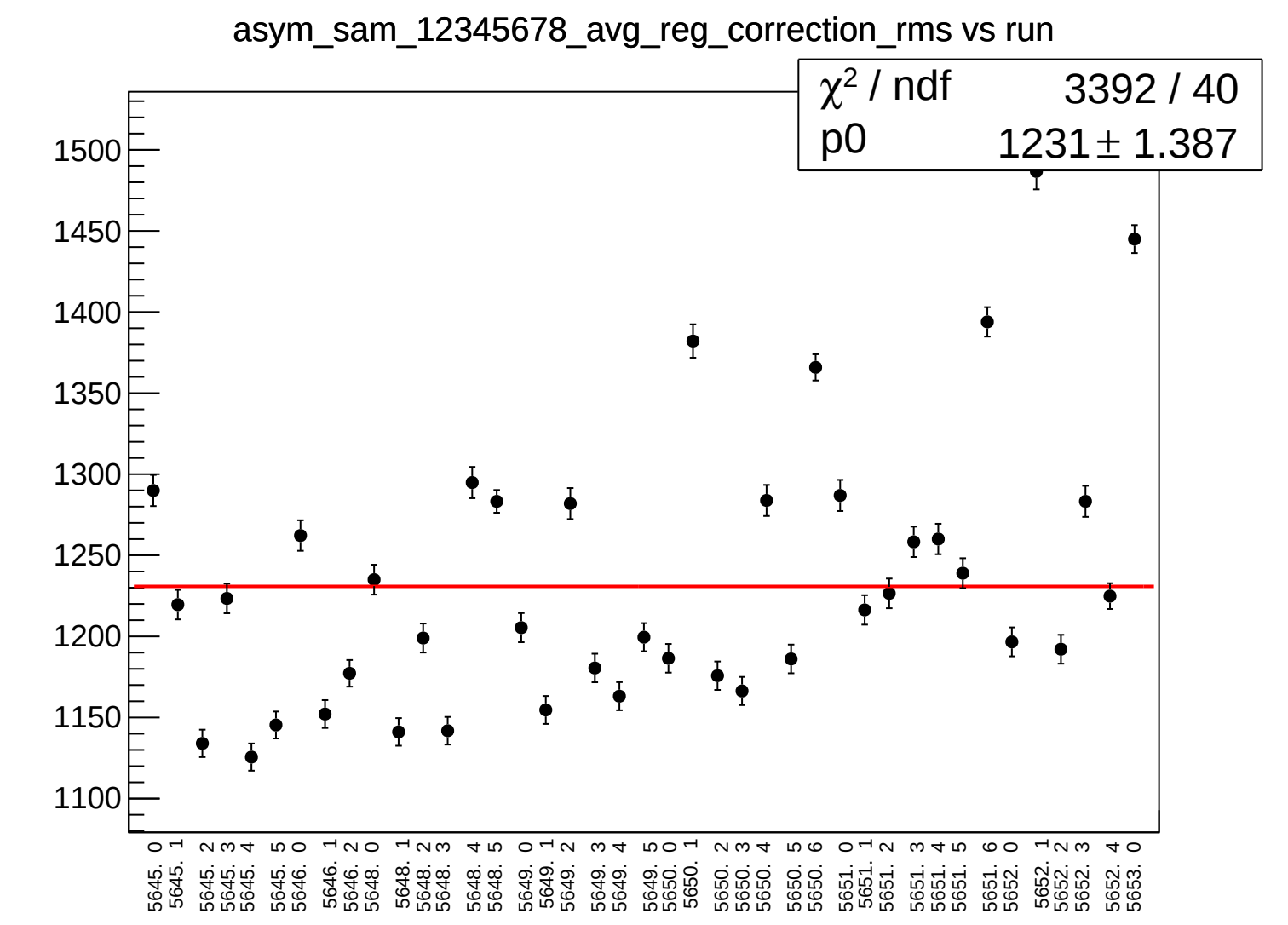

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.508e+05 / 40
p0 1.84e−11 ± 2.775e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

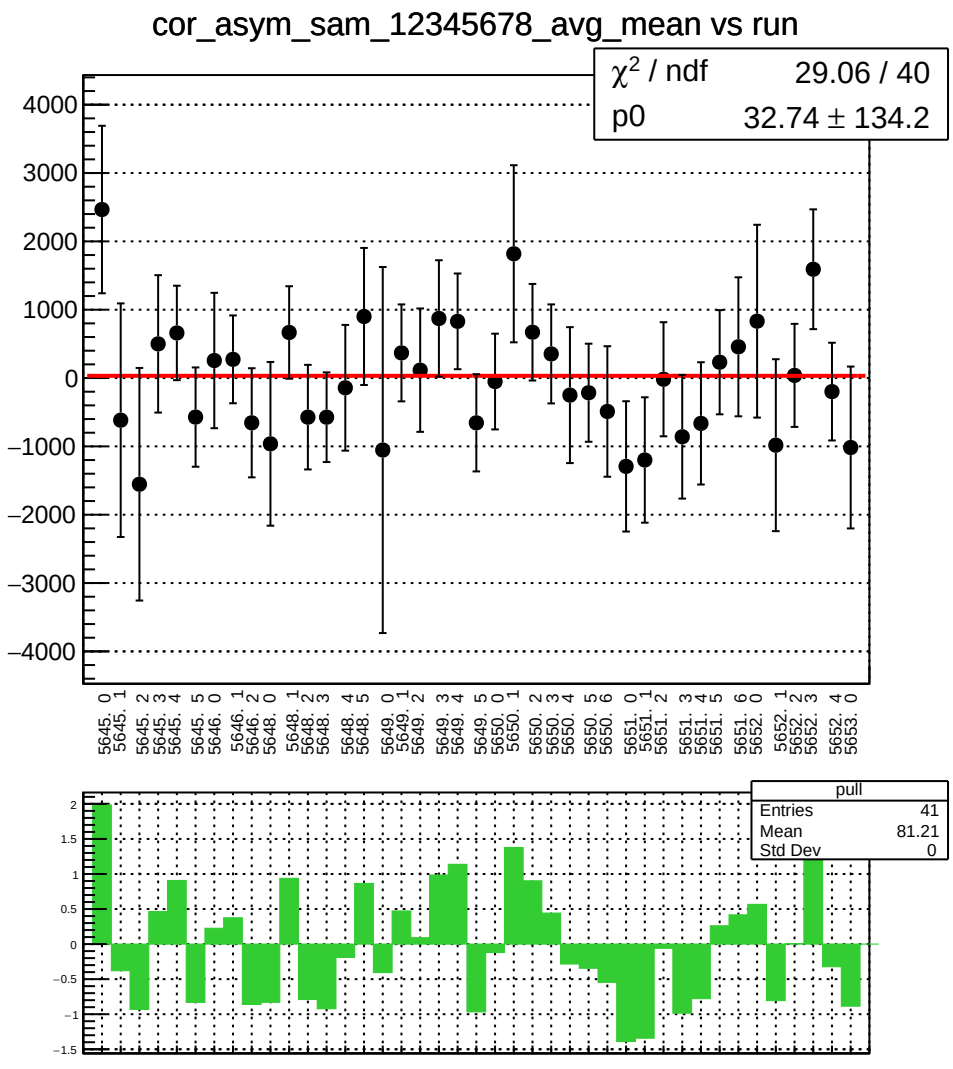

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 29.05 / 40
p0 32.75 ± 134.2
pull
Entries 41
Mean 81.21
Std Dev 0
pull1D
Entries 41
Mean −0.01899
Std Dev 0.8416

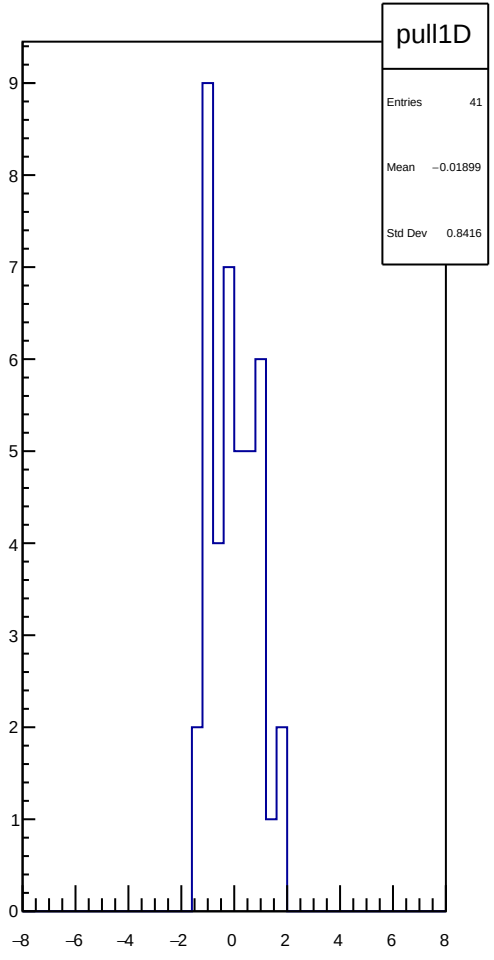

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.479e+04 / 40
p0 81.4 ± 0.09491
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

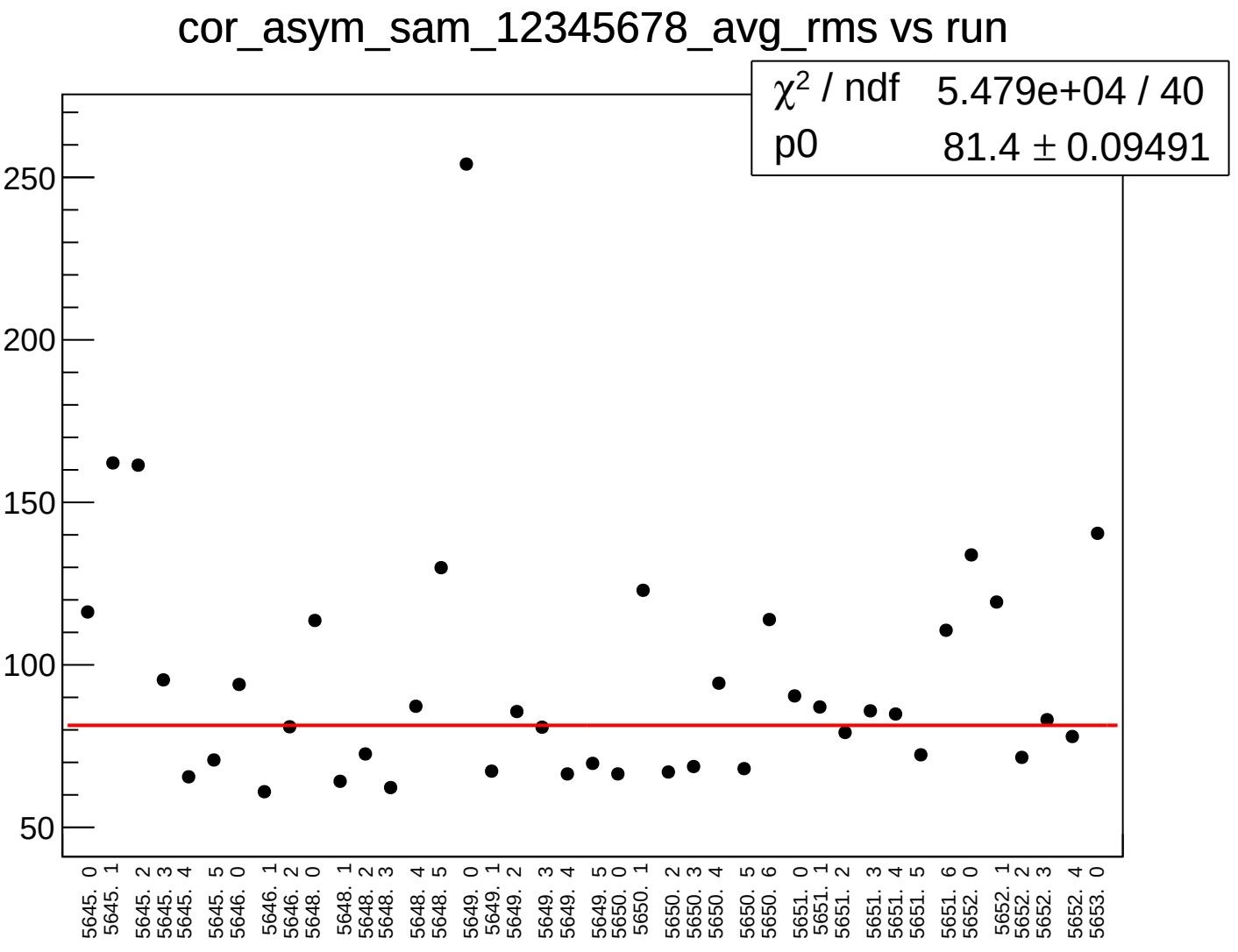

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 39.64 / 40
p0 1421 ± 1962
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 184
Std Dev 0
2
1
0
−1
−2

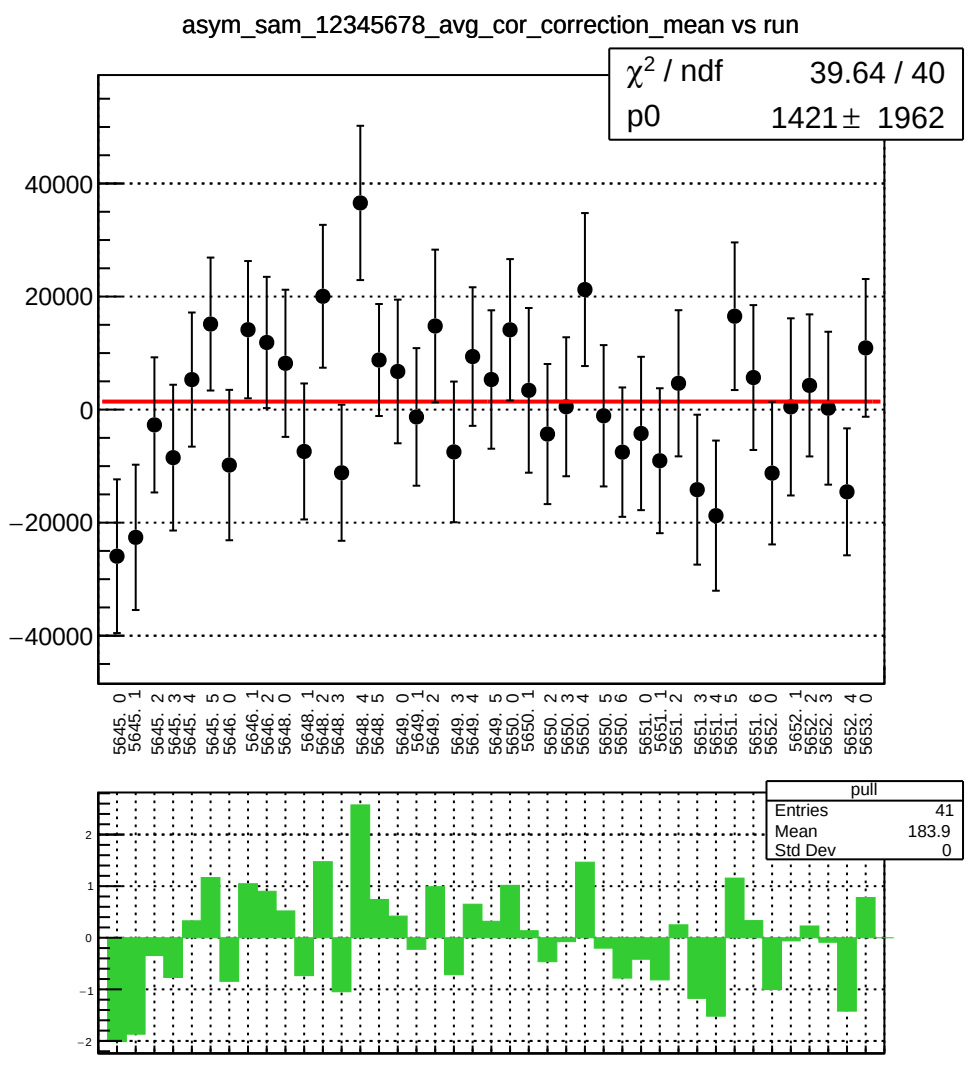

pull1D
Entries 41
Mean −0.002089
Std Dev 0.9833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

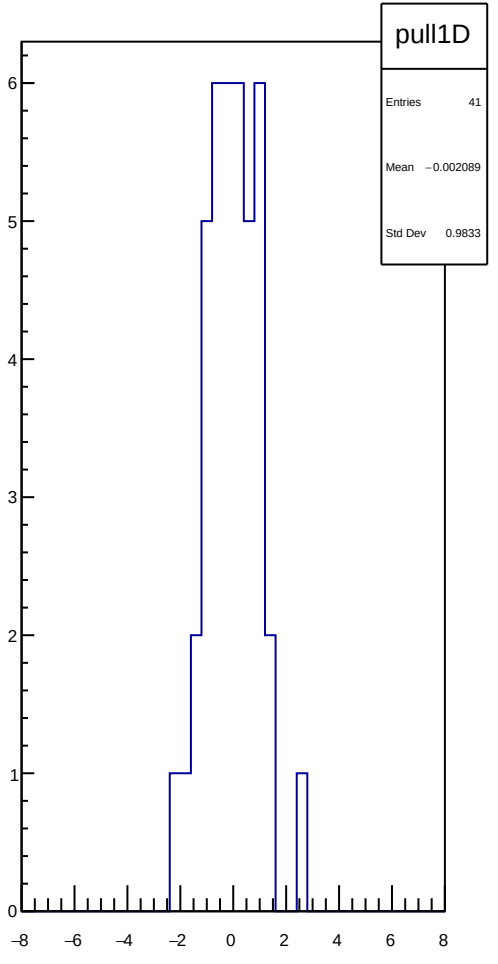

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3392 / 40
p0 1231 ± 1.387
1500
1450
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

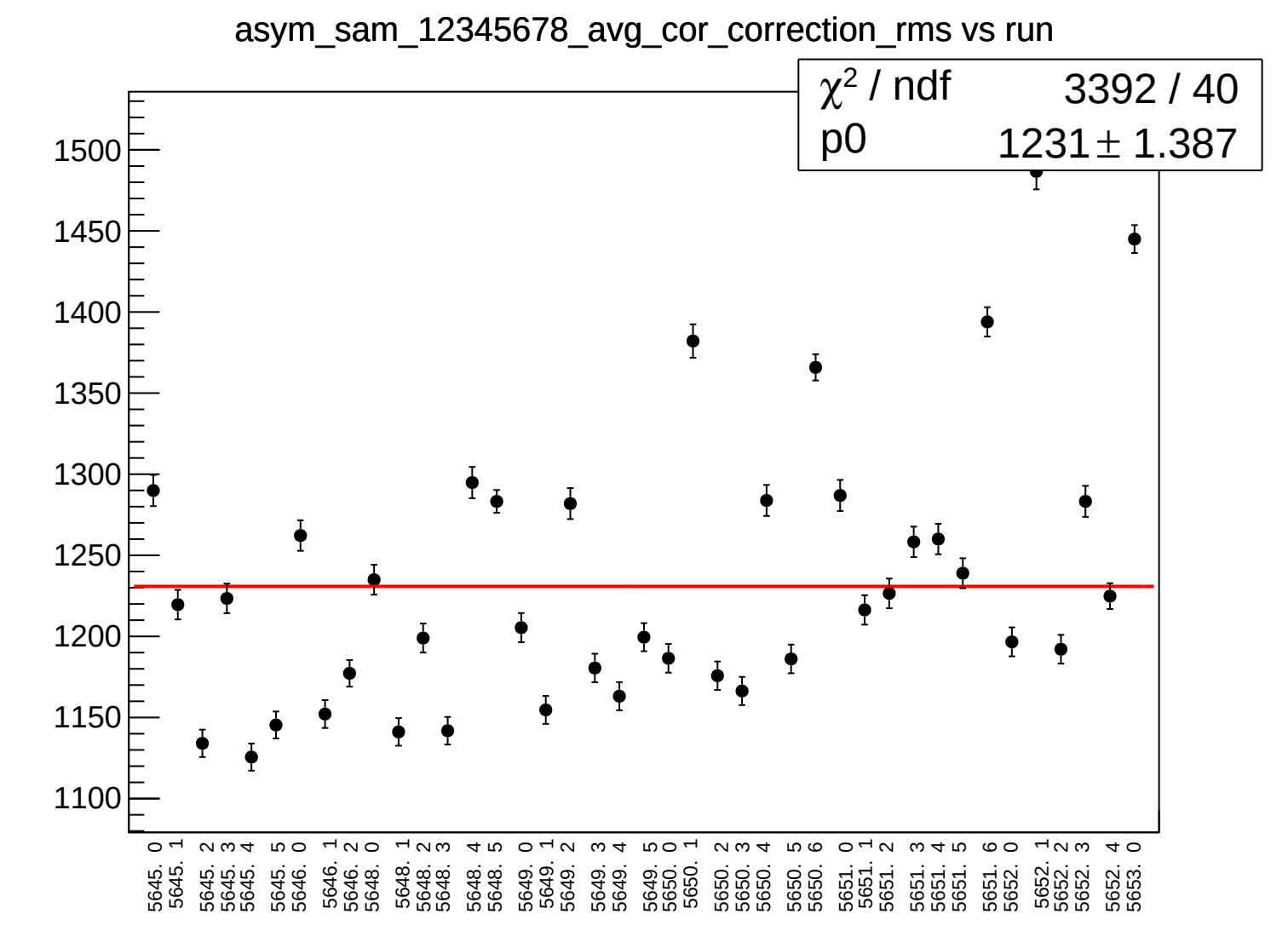

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 29.06 / 40
p0 32.74 ± 134.2
pull
Entries 41
Mean 81.21
Std Dev 0

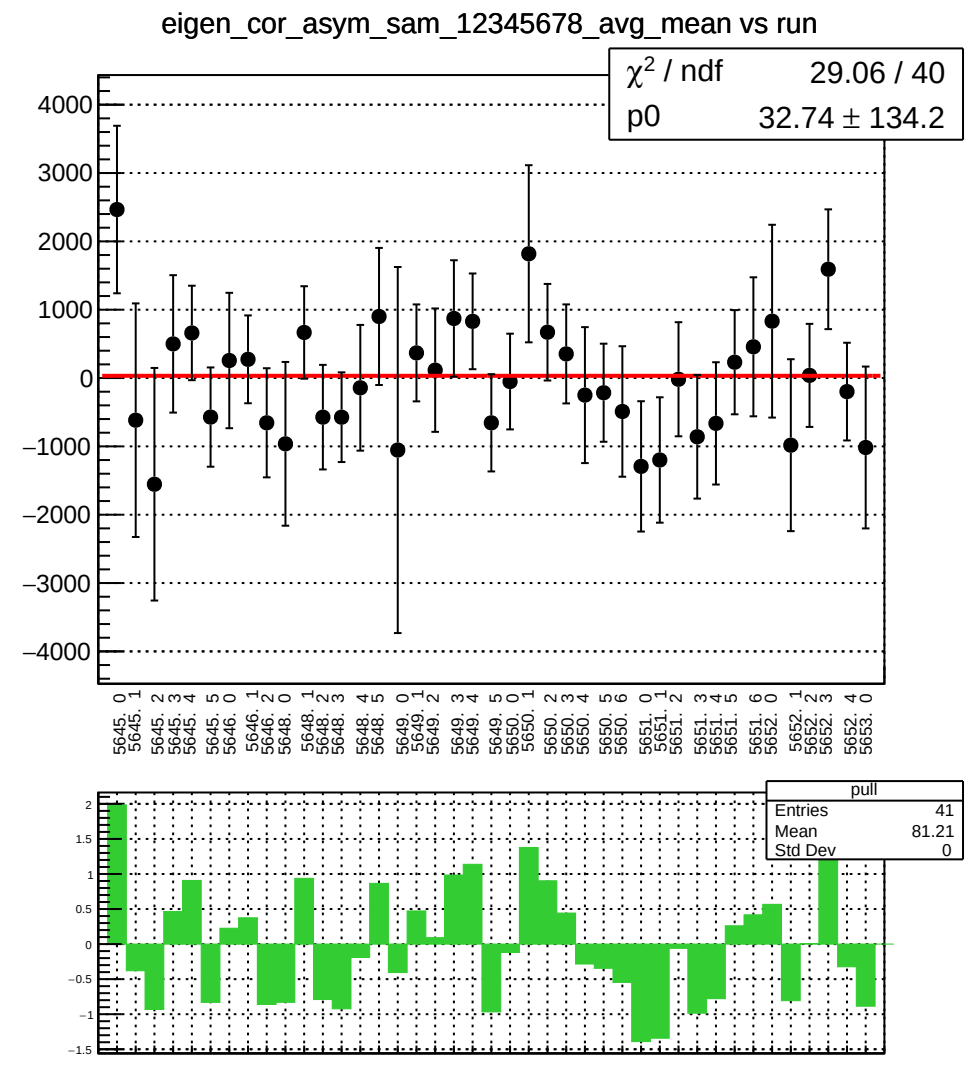

pull1D
Entries 41
Mean −0.01899
Std Dev 0.8416

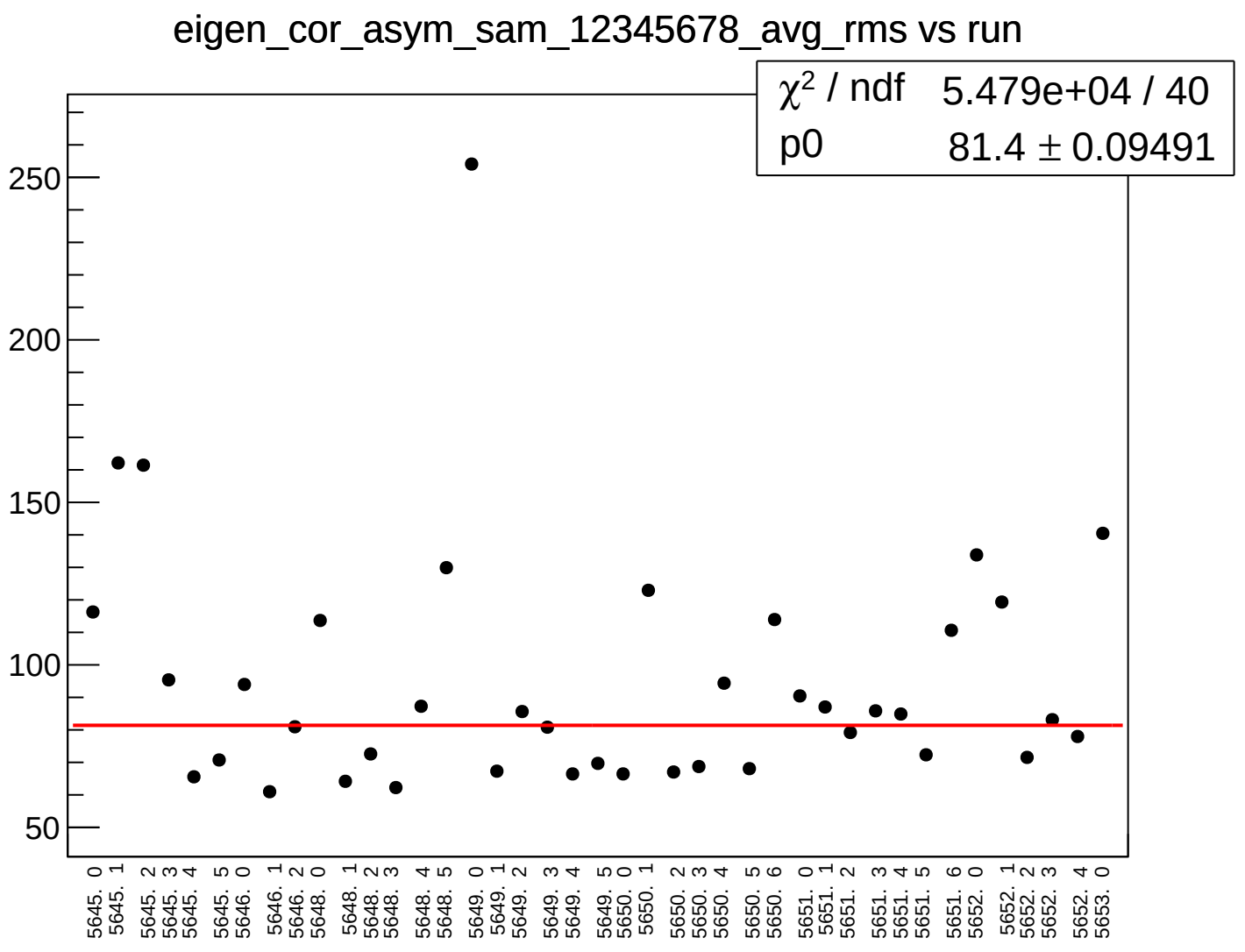

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.479e+04 / 40
p0 81.4 ± 0.09491
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

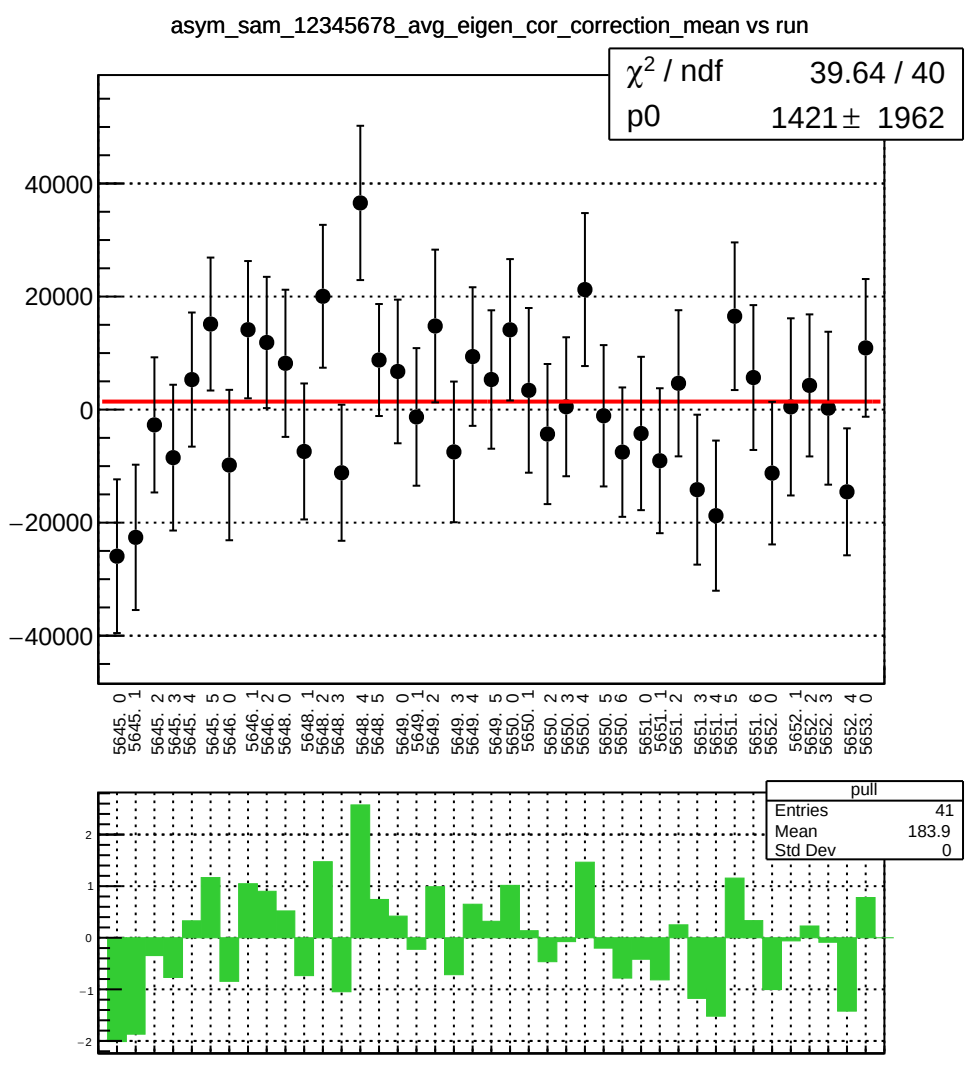

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 39.64 / 40
p0 1421 ± 1962
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 183.9
Std Dev 0
2
1
0
−1
−2

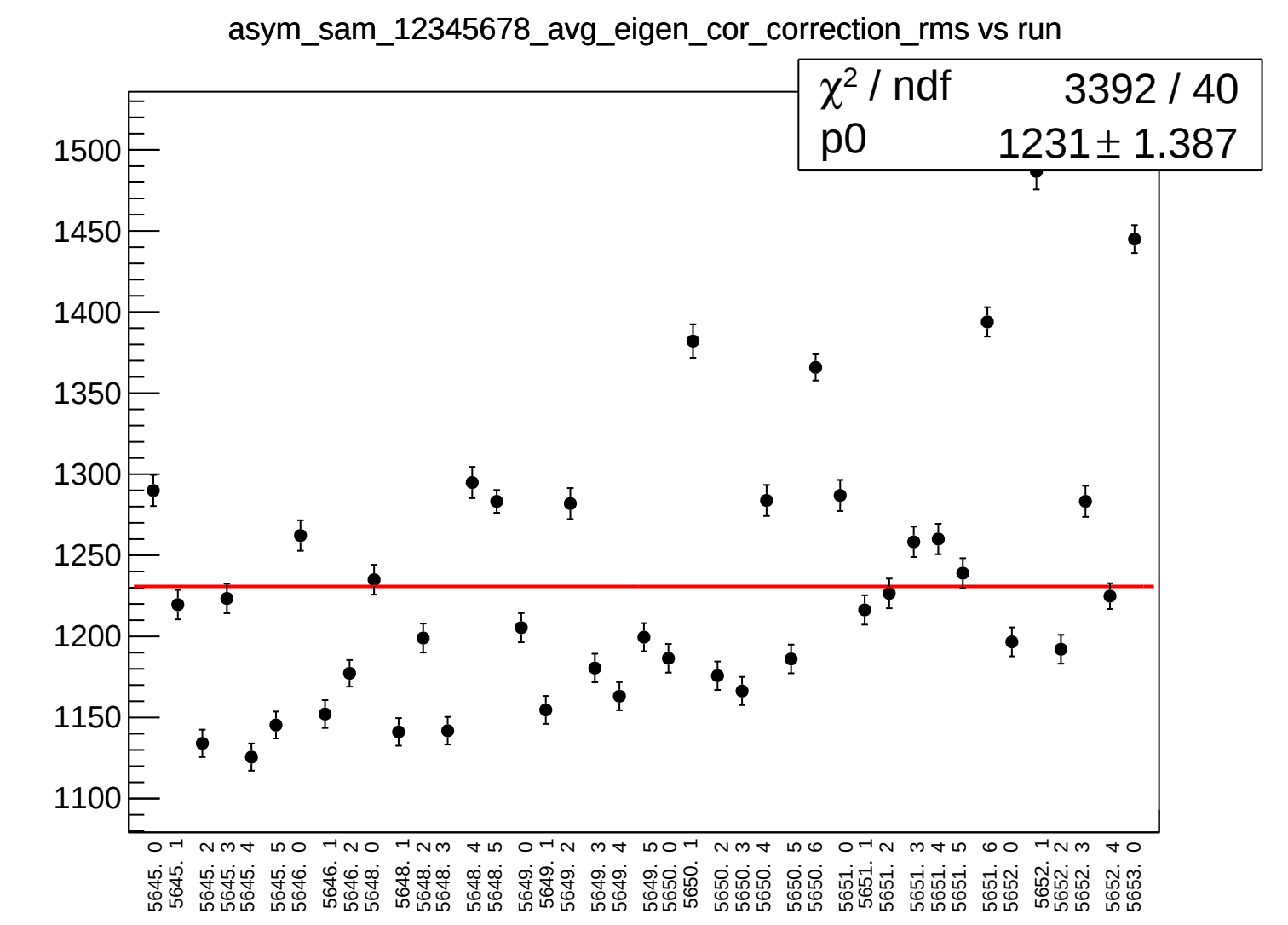

pull1D
Entries 41
Mean −0.002089
Std Dev 0.9833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

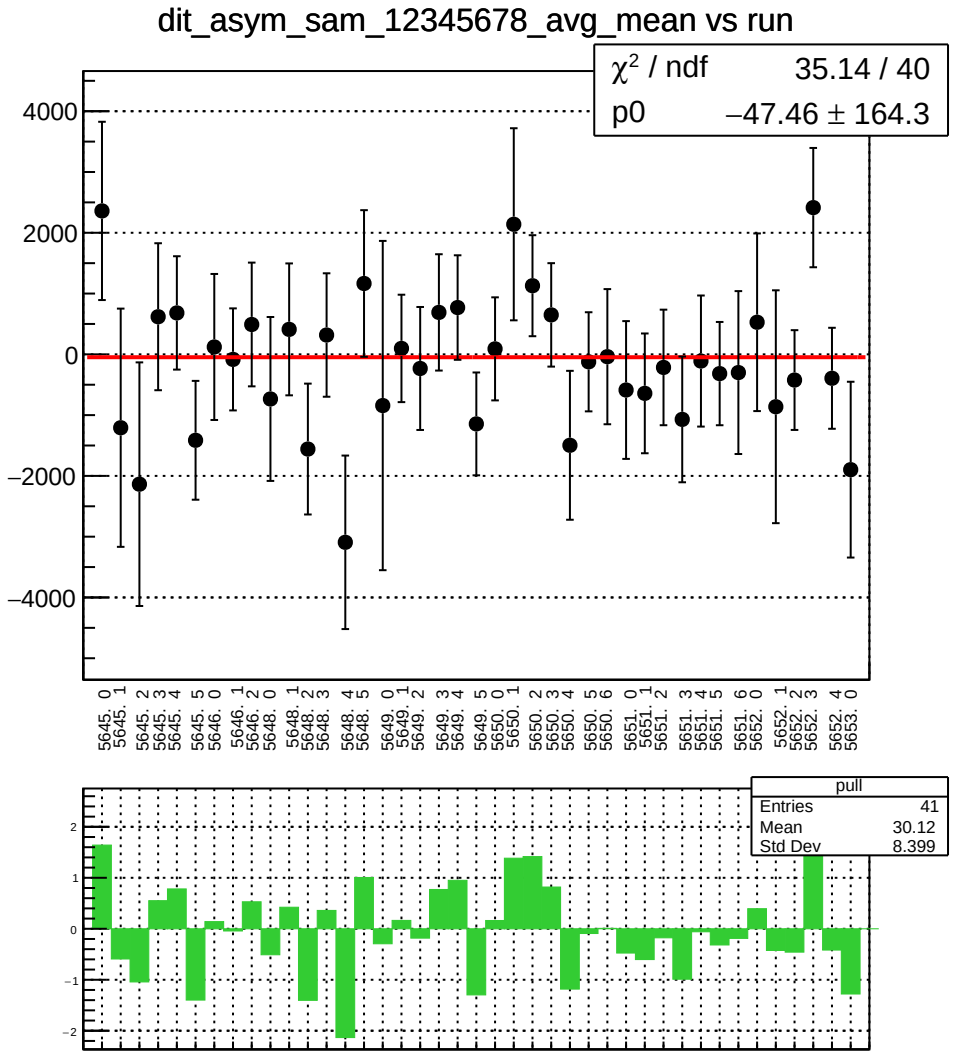

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3392 / 40
p0 1231 ± 1.387
1500
1450
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

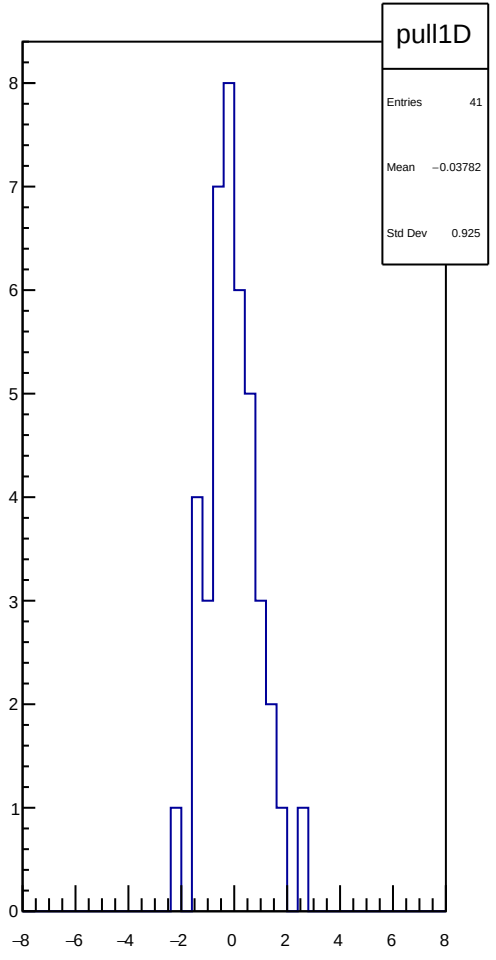

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 29.06 / 40
p0 32.74 ± 134.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01899
Std Dev 0.8416
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

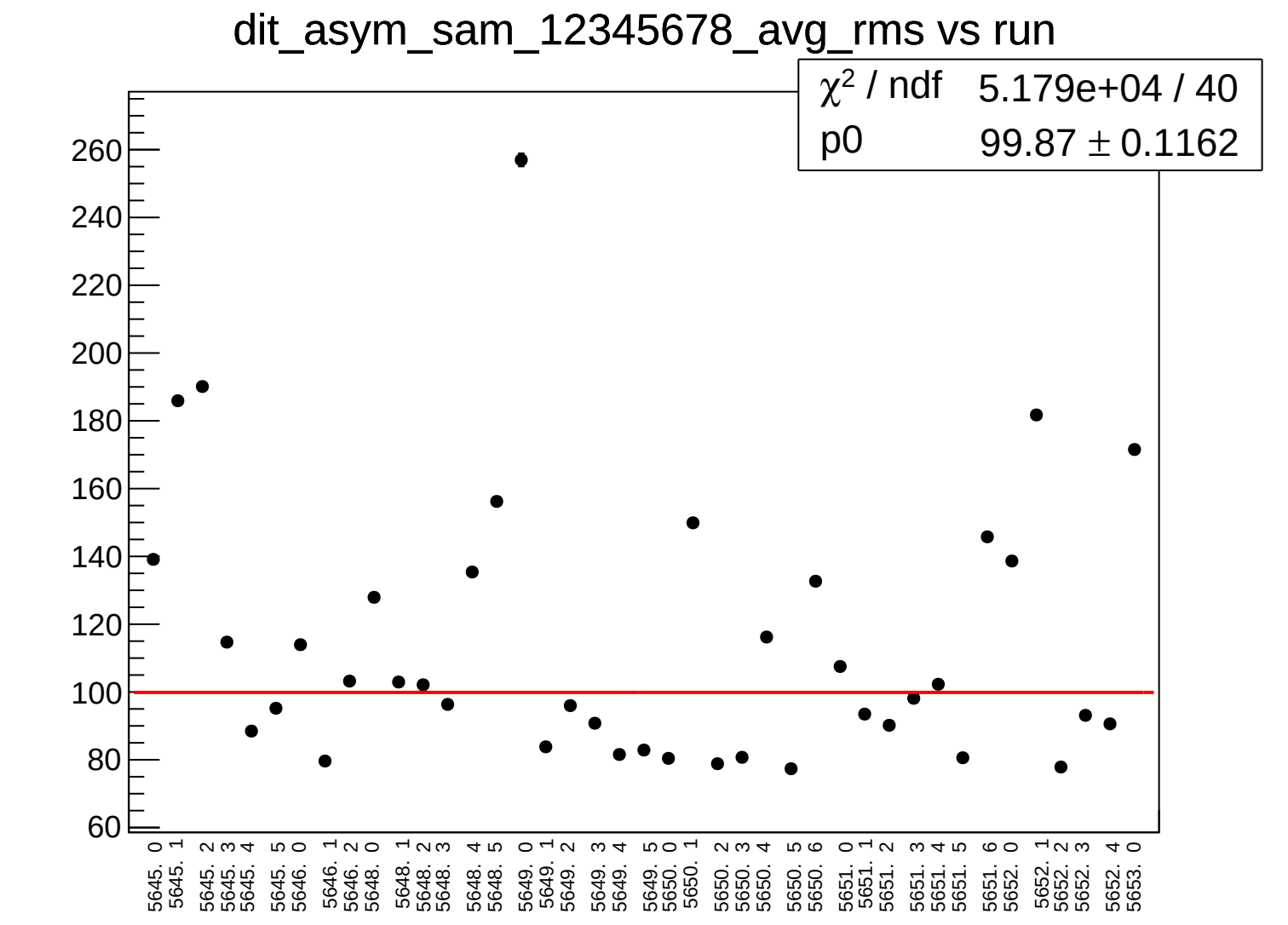

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.479e+04 / 40
p0 81.4 ± 0.09491
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

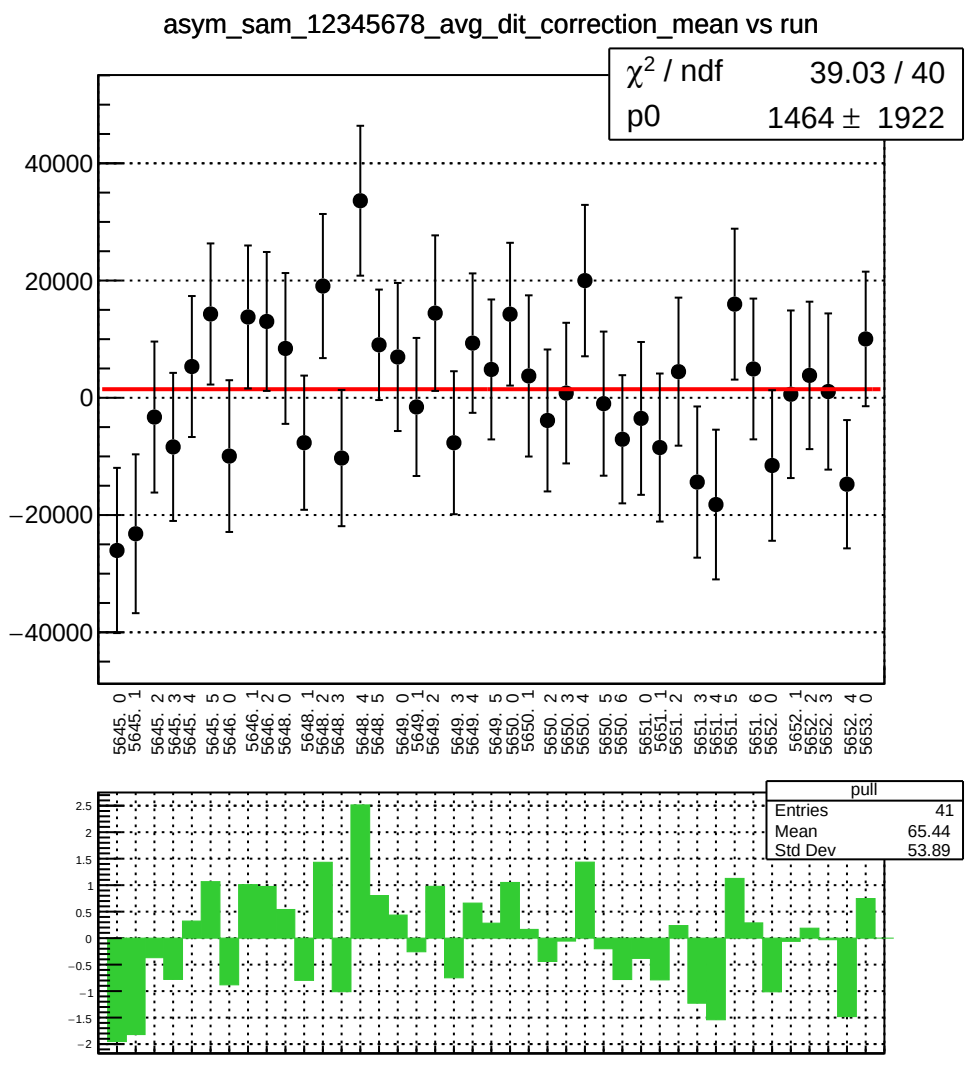

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 39.64 / 40
p0 1421 ± 1962
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 183.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.002089
Std Dev 0.9833
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

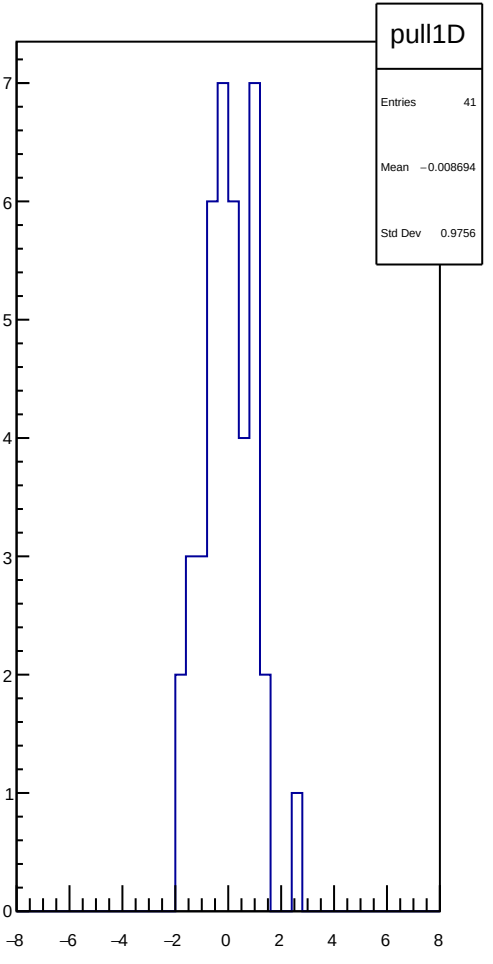

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3392 / 40
p0 1231 ± 1.387
1500
1450
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

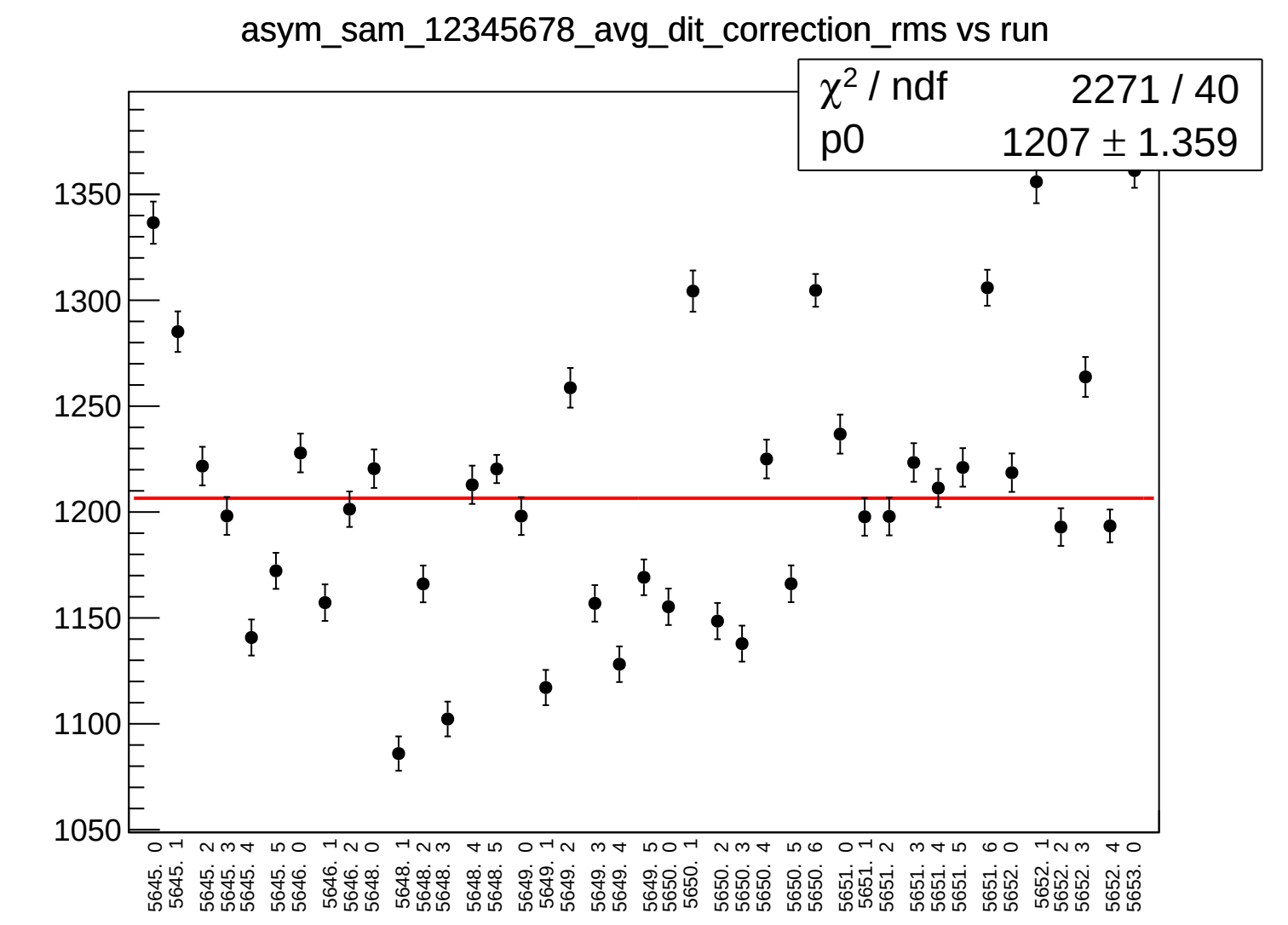

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 35.14 / 40
p0 −47.46 ± 164.3
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.12
Std Dev 8.399
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.03782
Std Dev 0.925
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.179e+04 / 40
p0 99.87 ± 0.1162
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 39.03 / 40
p0 1464 ± 1922
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 65.44
Std Dev 53.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.008694
Std Dev 0.9756
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 2271 / 40
p0 1207 ± 1.359
1350
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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5651. 5
5651. 6
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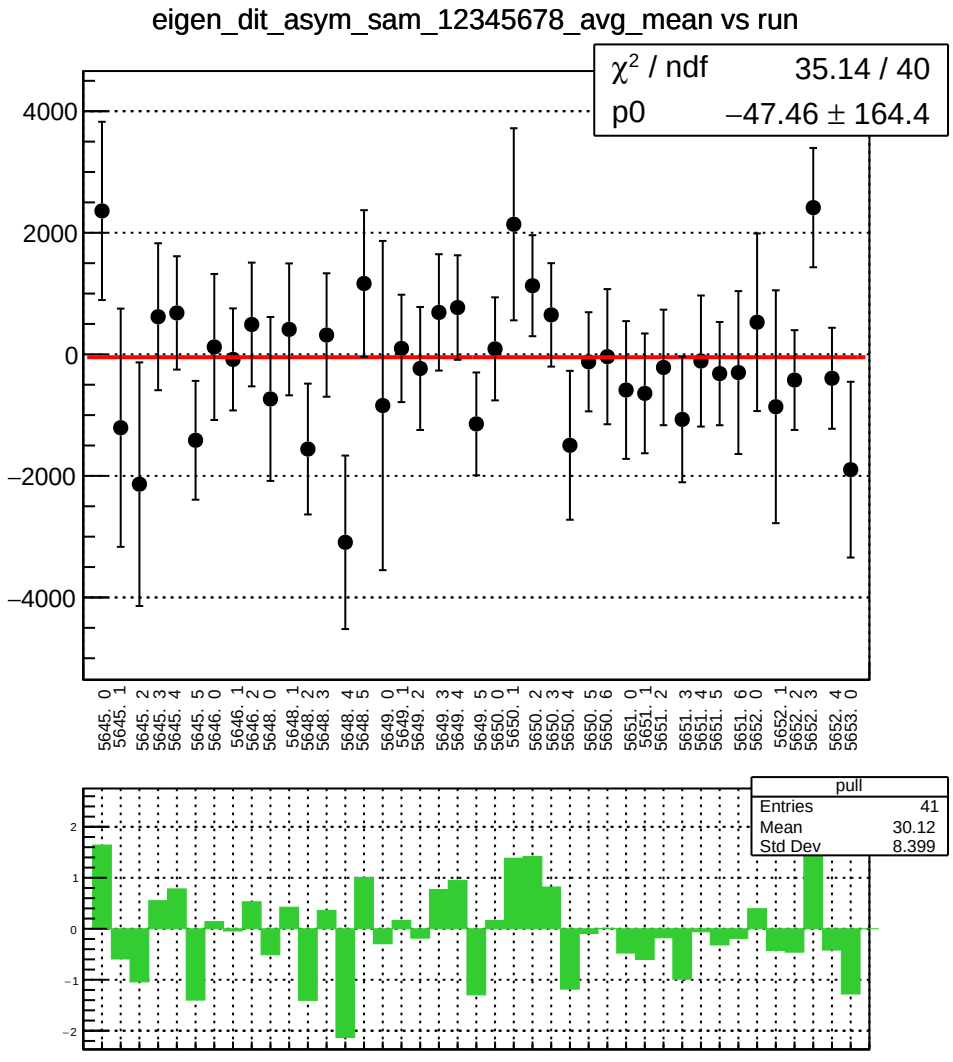
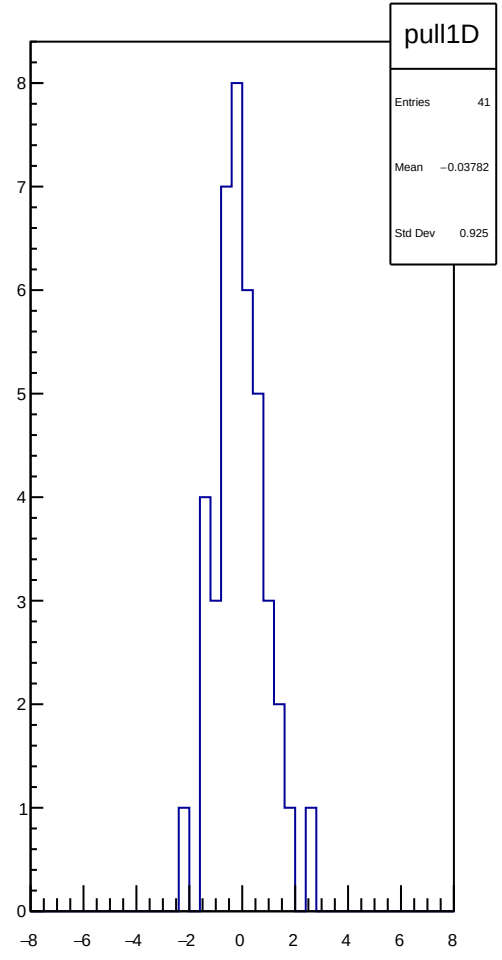
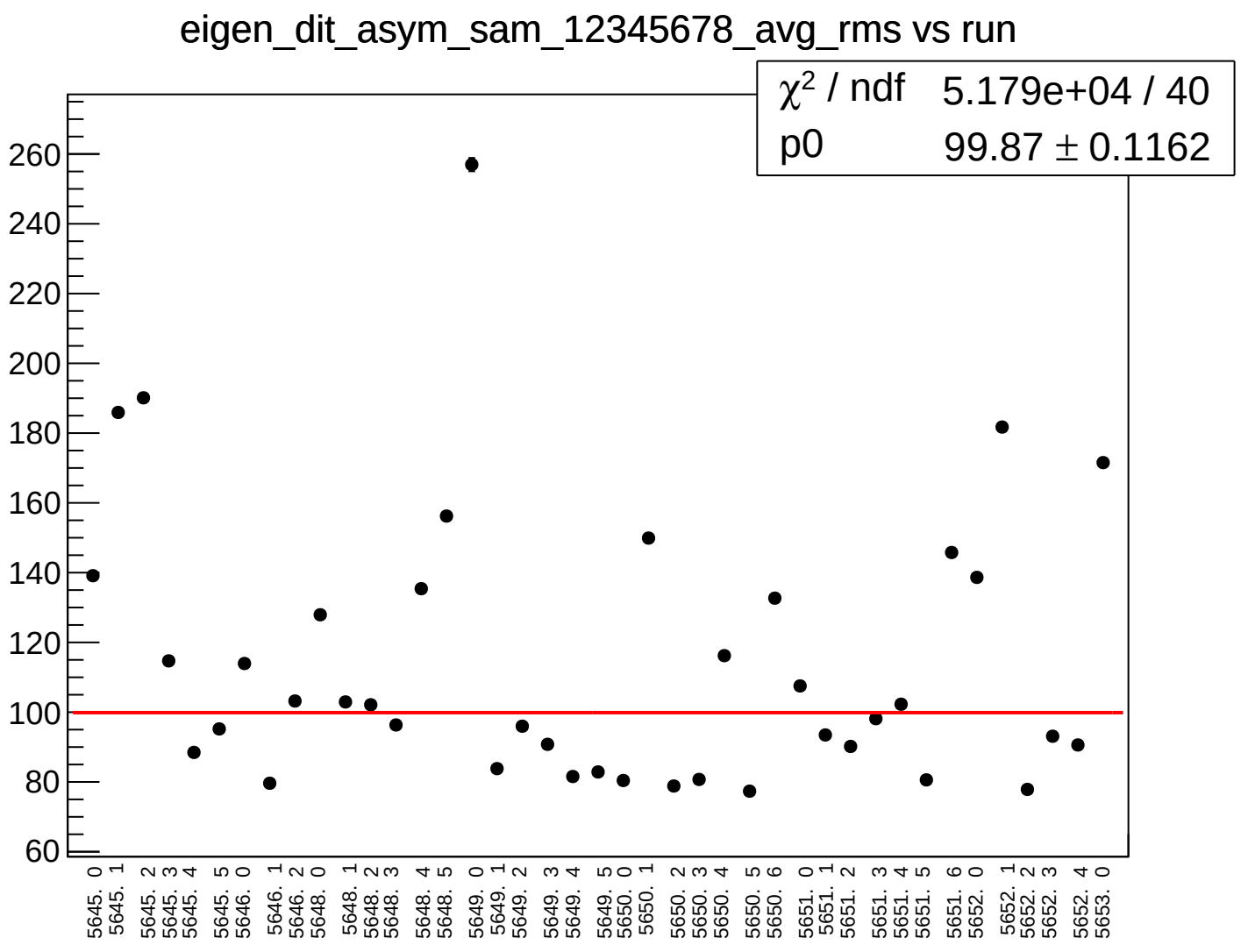
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 35.14 / 40
p0 −47.46 ± 164.4
4000
2000
0
−2000
−4000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.12
Std Dev 8.399
2
1
0
−1
−2


pull1D
Entries 41
Mean −0.03782
Std Dev 0.925
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.179e+04 / 40
p0 99.87 ± 0.1162
260
240
220
200
180
160
140
120
100
80
60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
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5649. 0
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5649. 2
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5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
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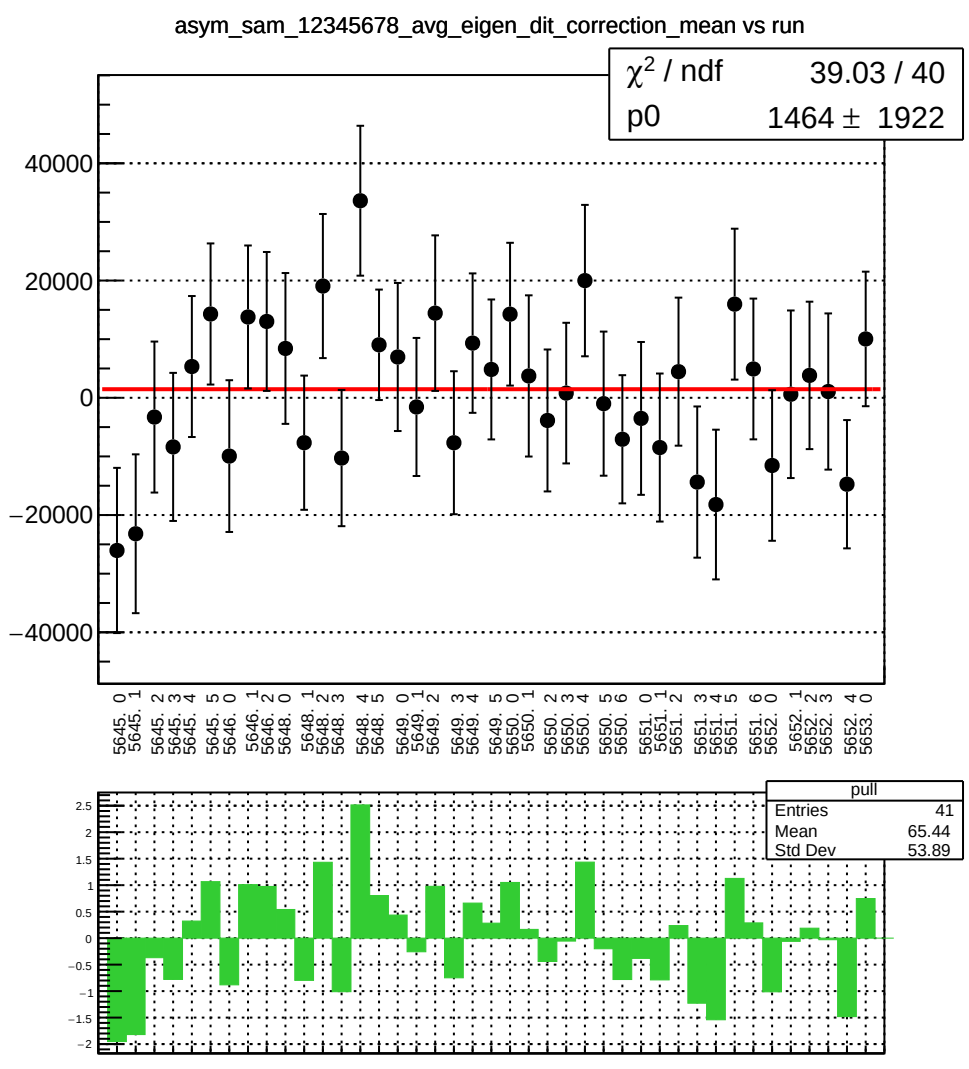
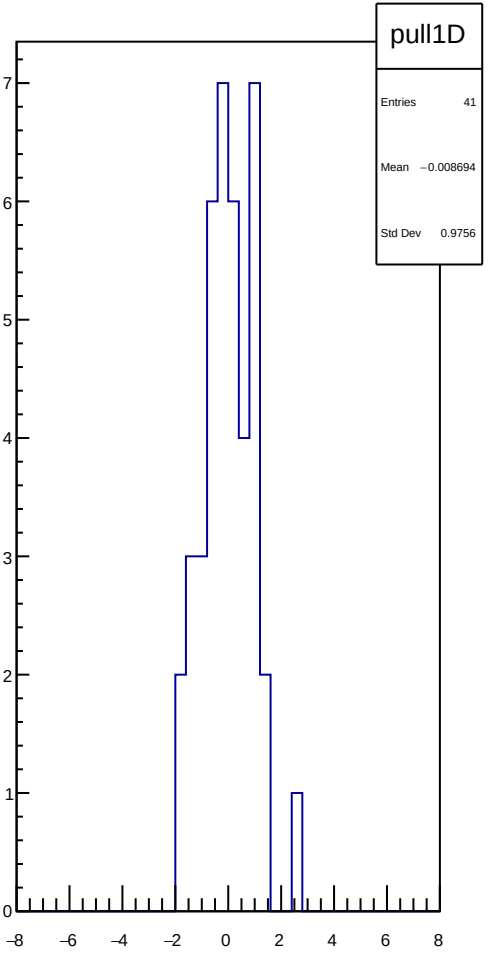
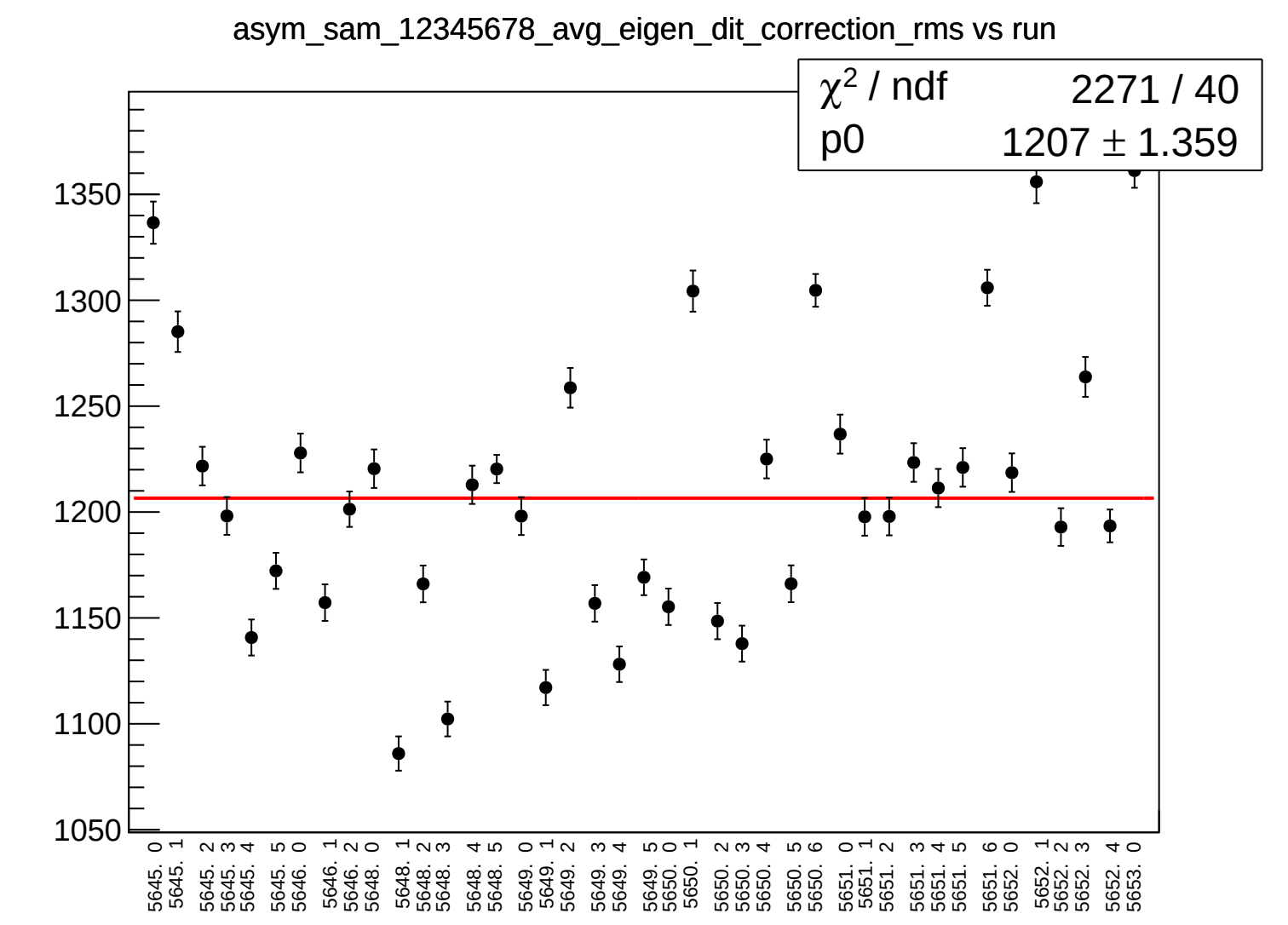
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0


asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 39.03 / 40
p0 1464 ± 1922
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 65.44
Std Dev 53.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 41
Mean −0.008694
Std Dev 0.9756
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2271 / 40
p0 1207 ± 1.359
1350
1300
1250
1200
1150
1100
1050
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
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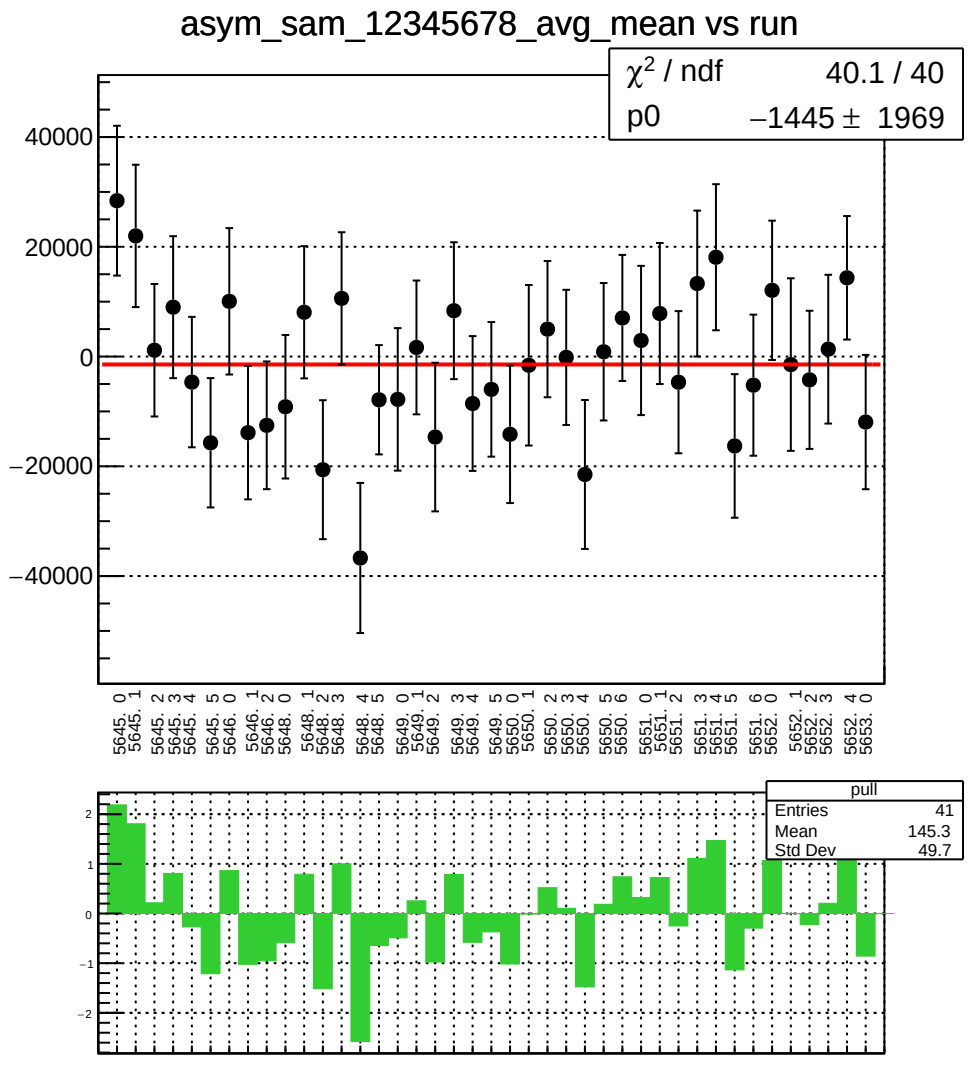
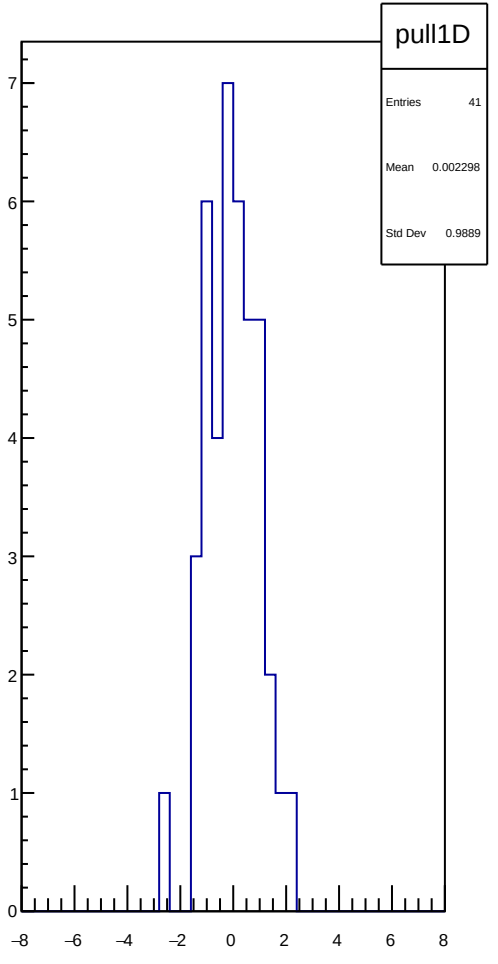
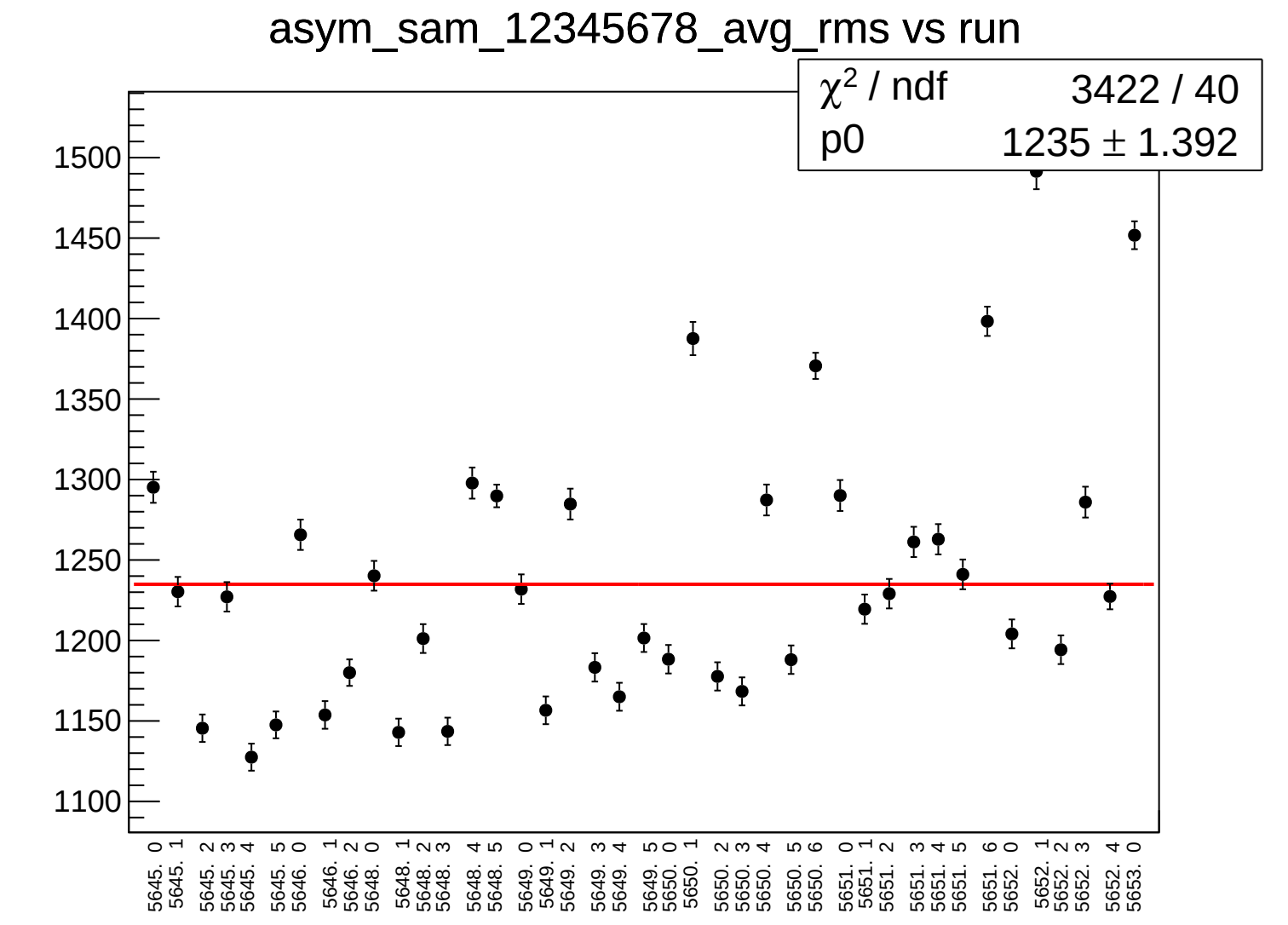
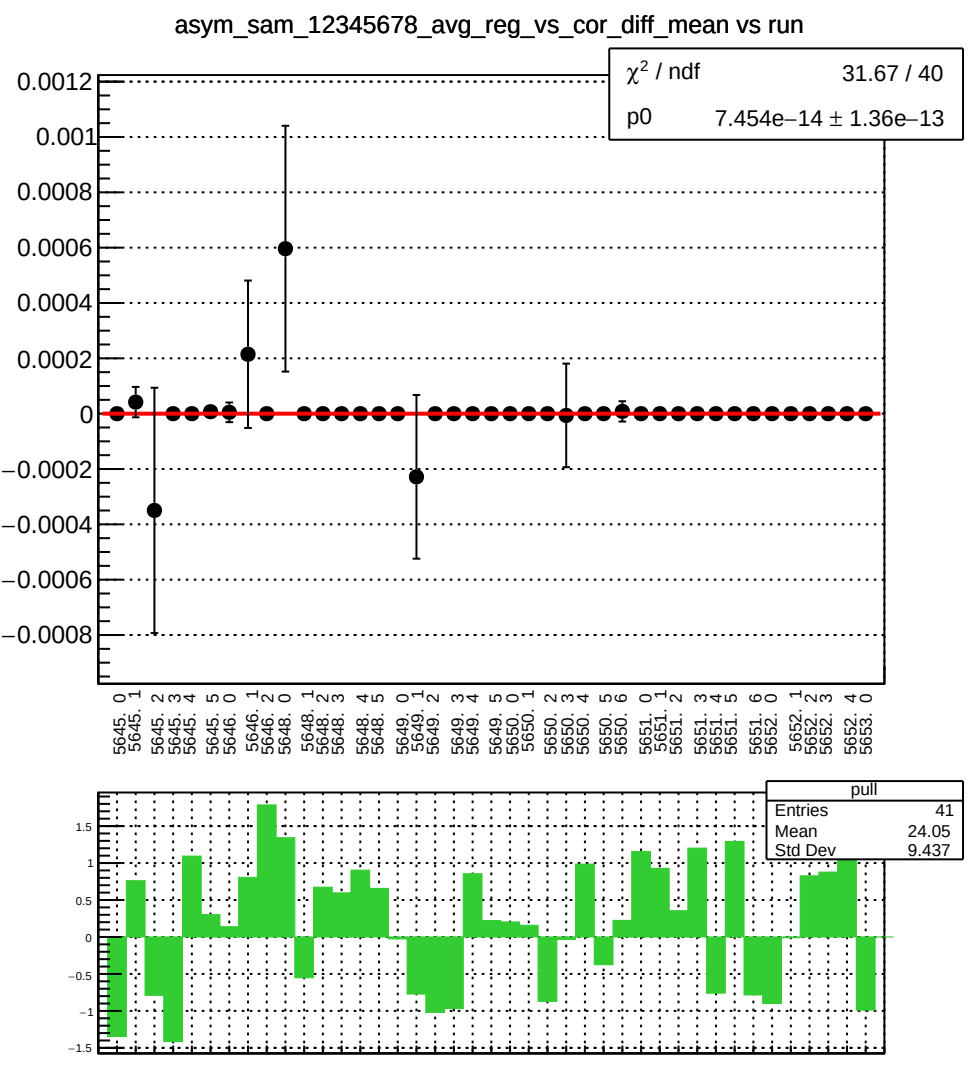
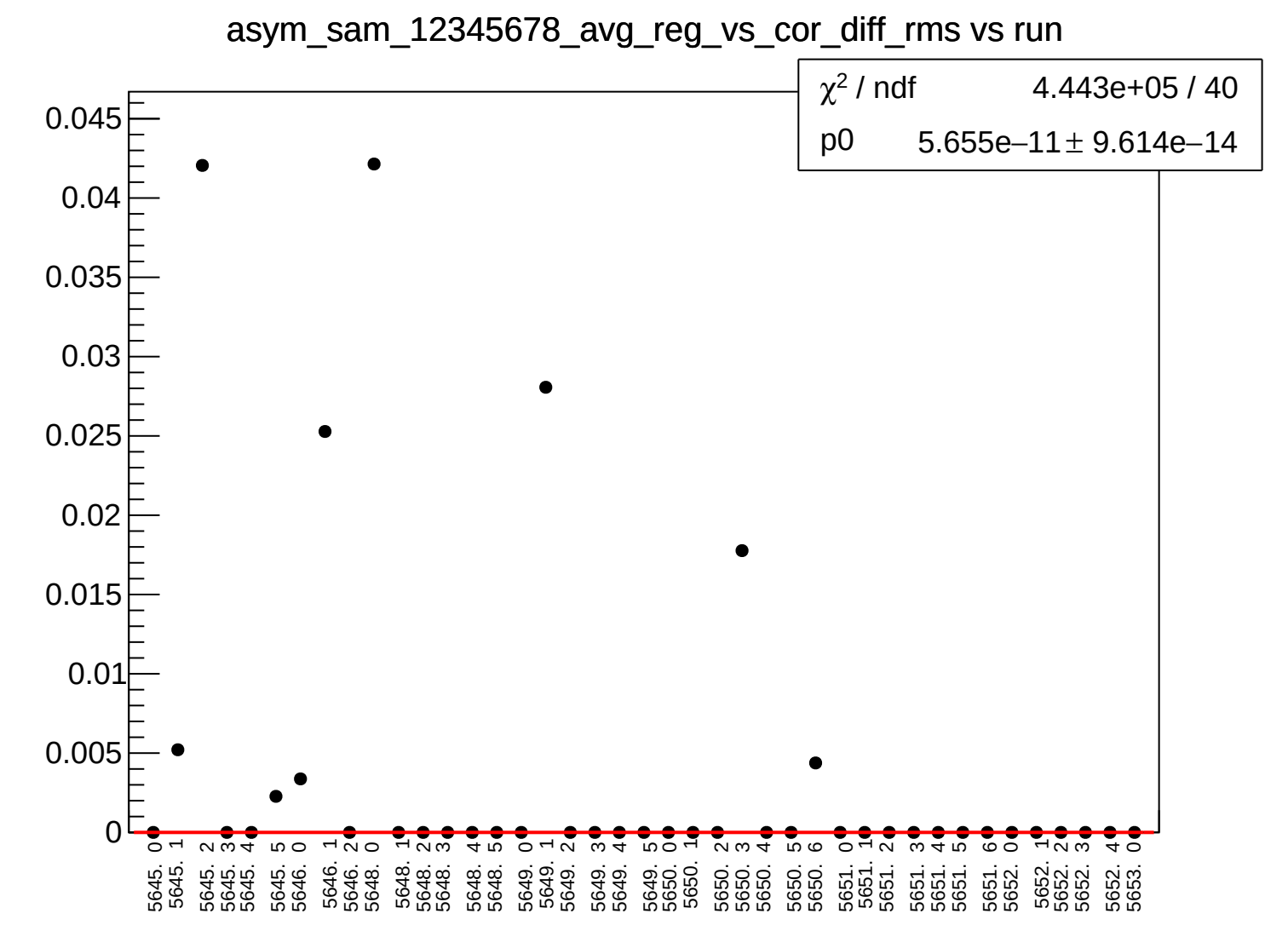
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

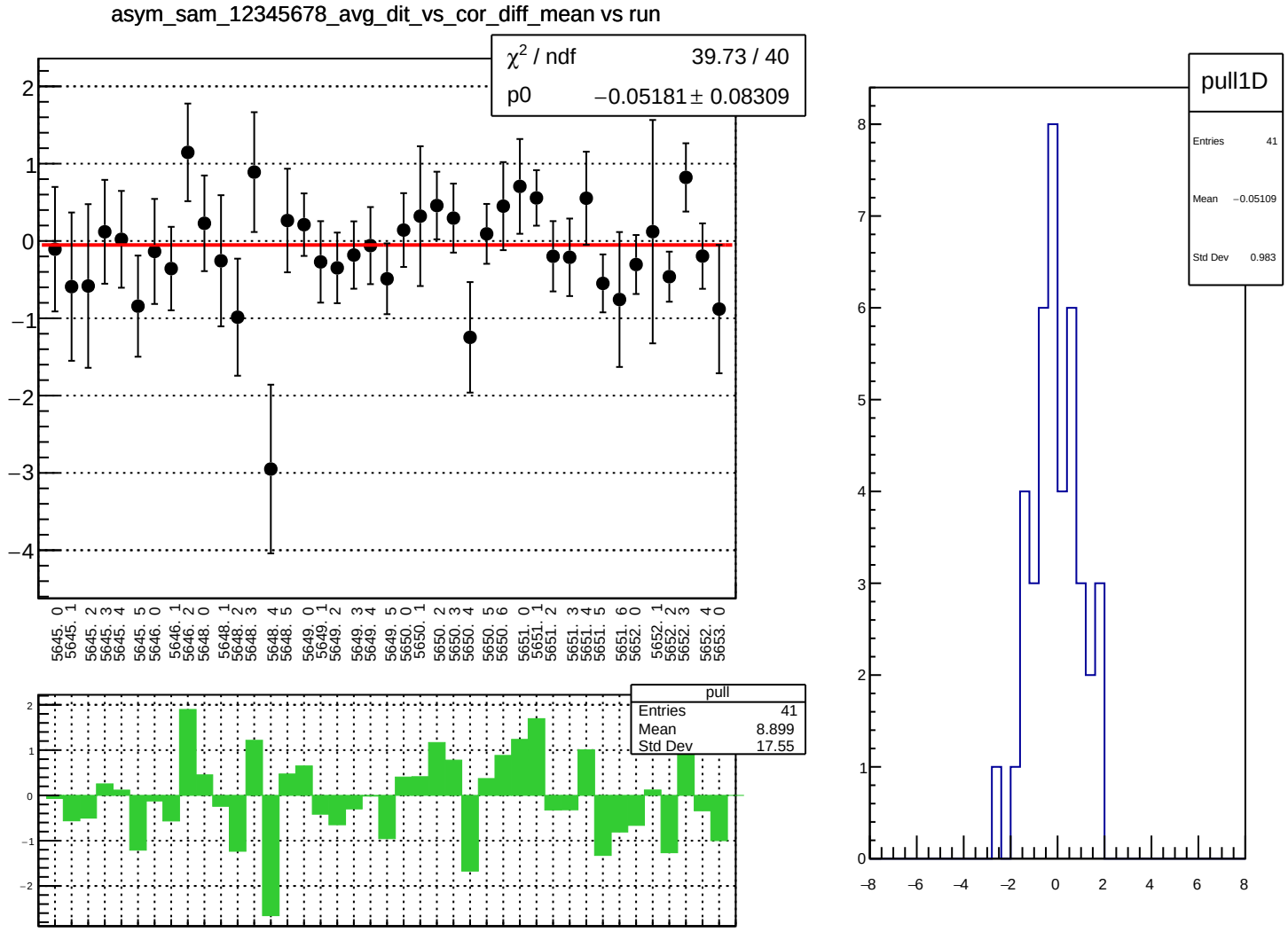

asym_sam_12345678_avg_mean vs run
χ² / ndf 40.1 / 40
p0 −1445 ± 1969
40000
20000
0
−20000
−40000
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 145.3
Std Dev 49.7
2
1
0
−1
−2

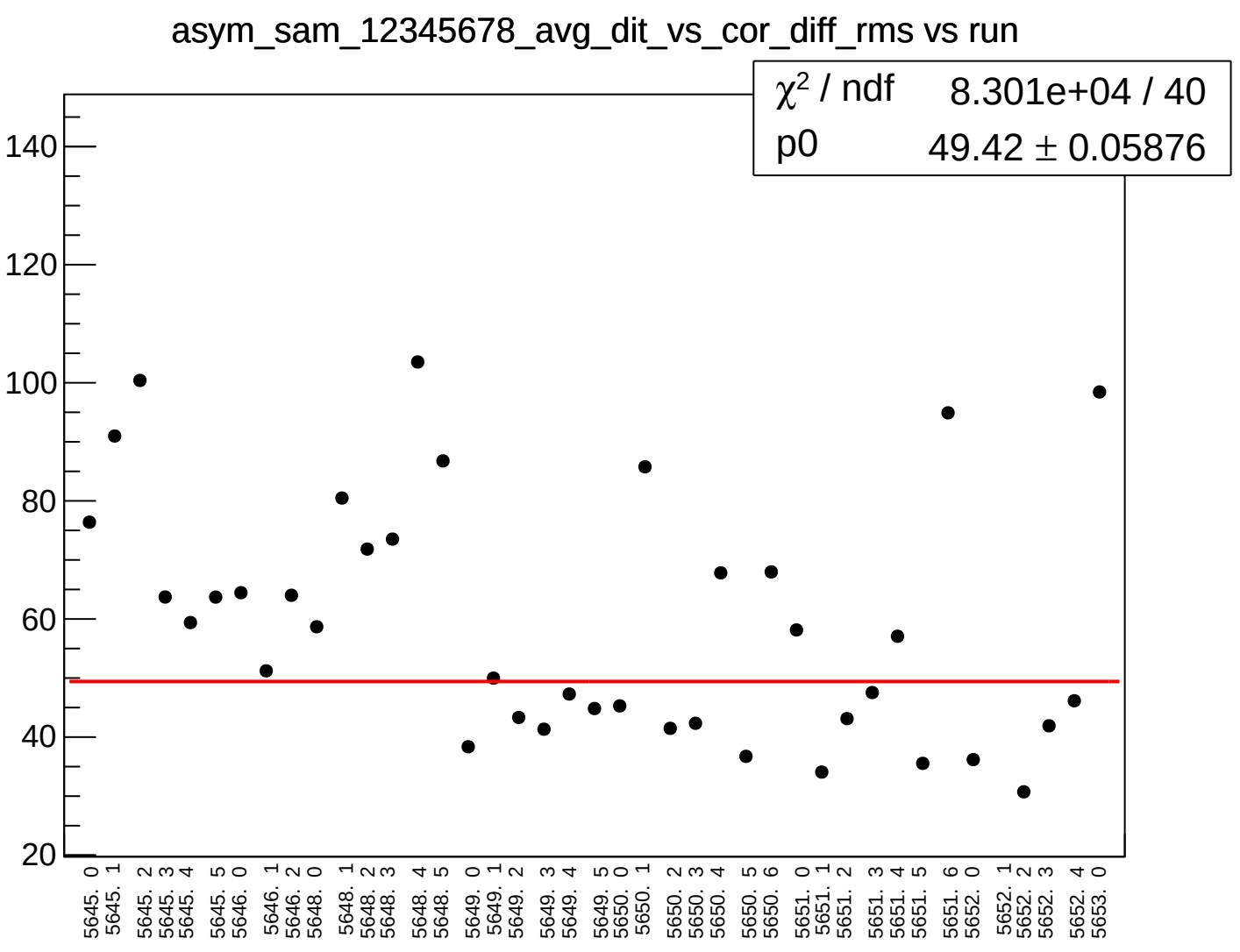

pull1D
Entries 41
Mean 0.002298
Std Dev 0.9889
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

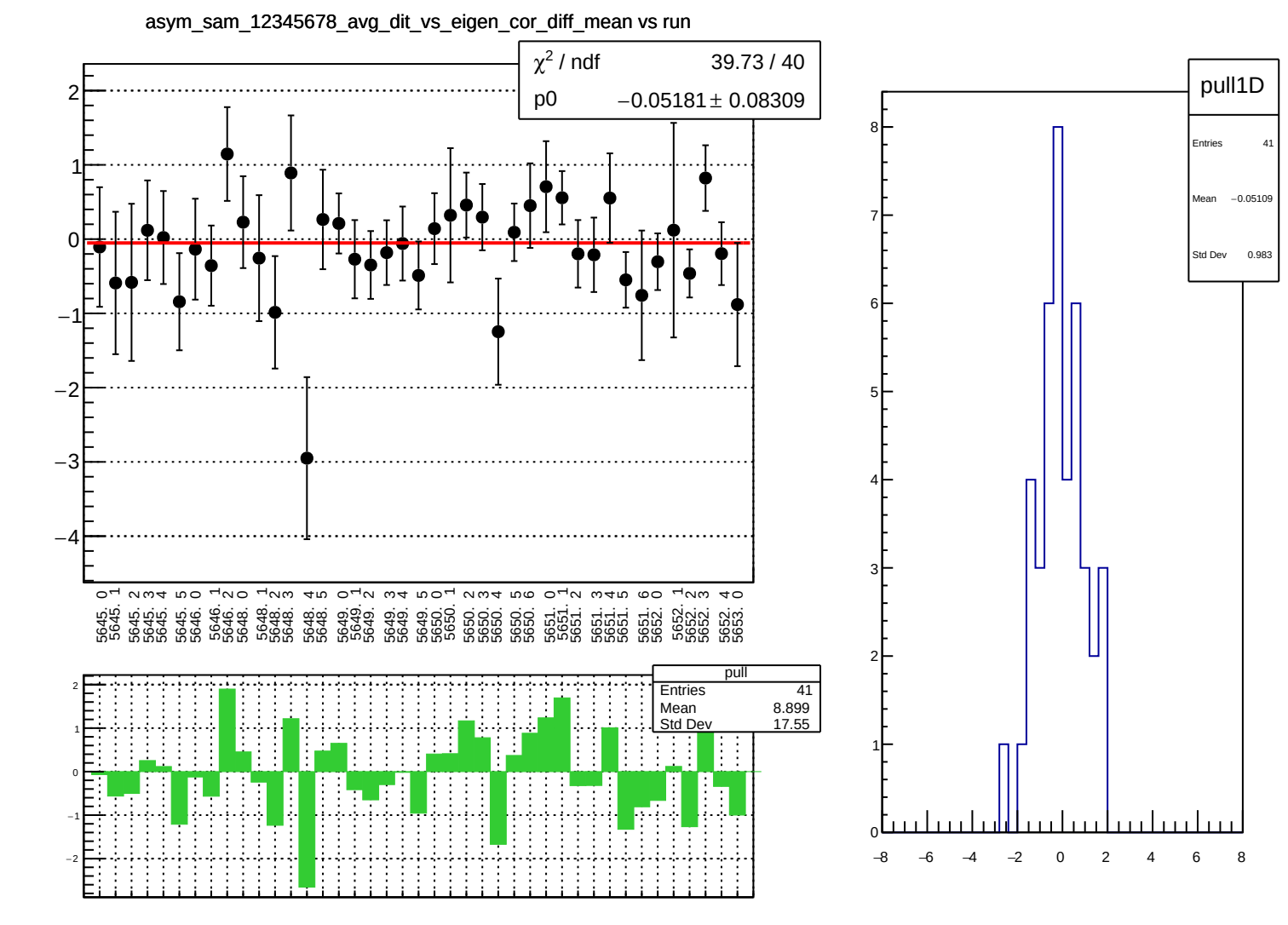

asym_sam_12345678_avg_rms vs run
χ² / ndf 3422 / 40
p0 1235 ± 1.392
1500
1450
1400
1350
1300
1250
1200
1150
1100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

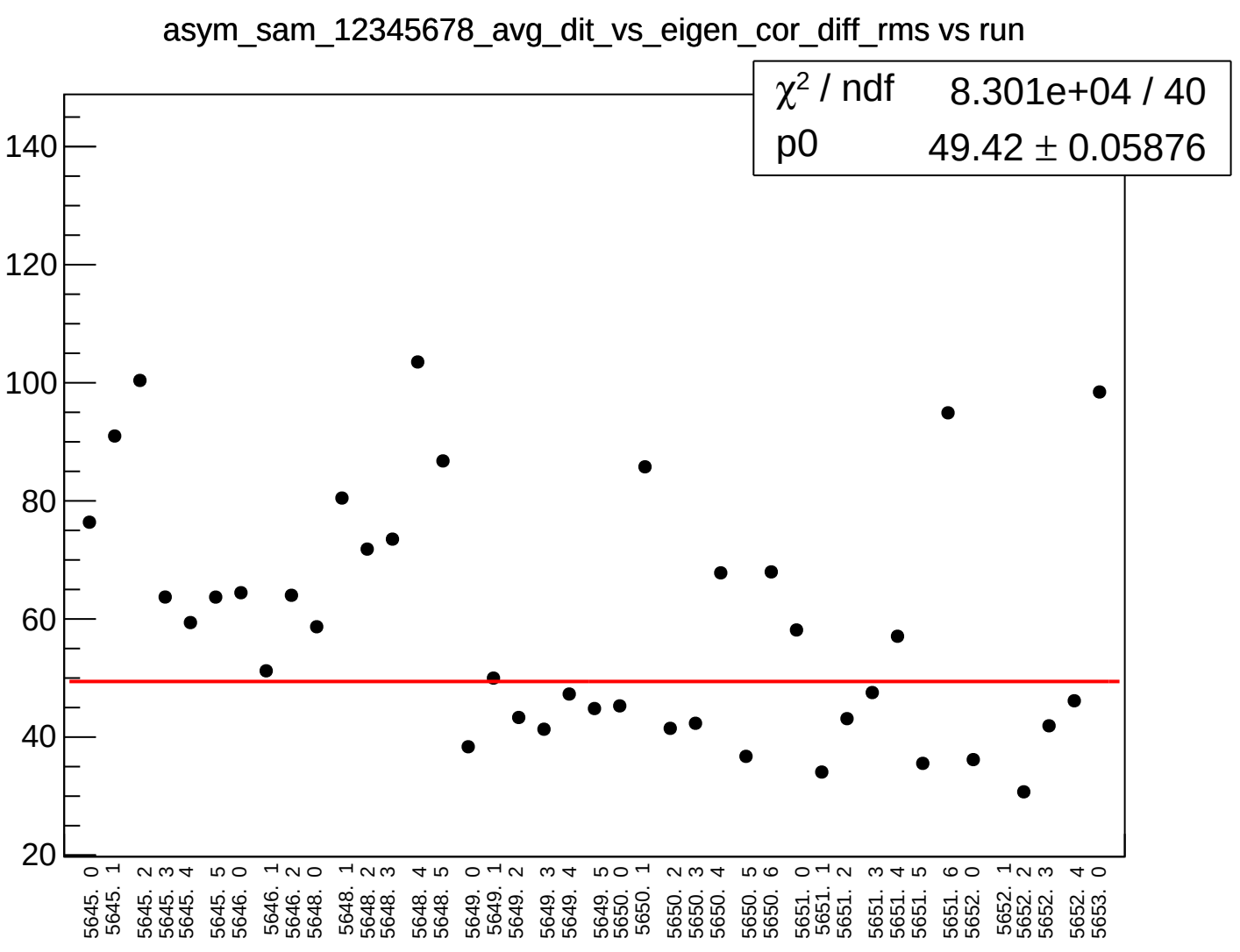

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.67 / 40
p0 7.454e−14 ± 1.36e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.05
Std Dev 9.437
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.1999
Std Dev 0.8558
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

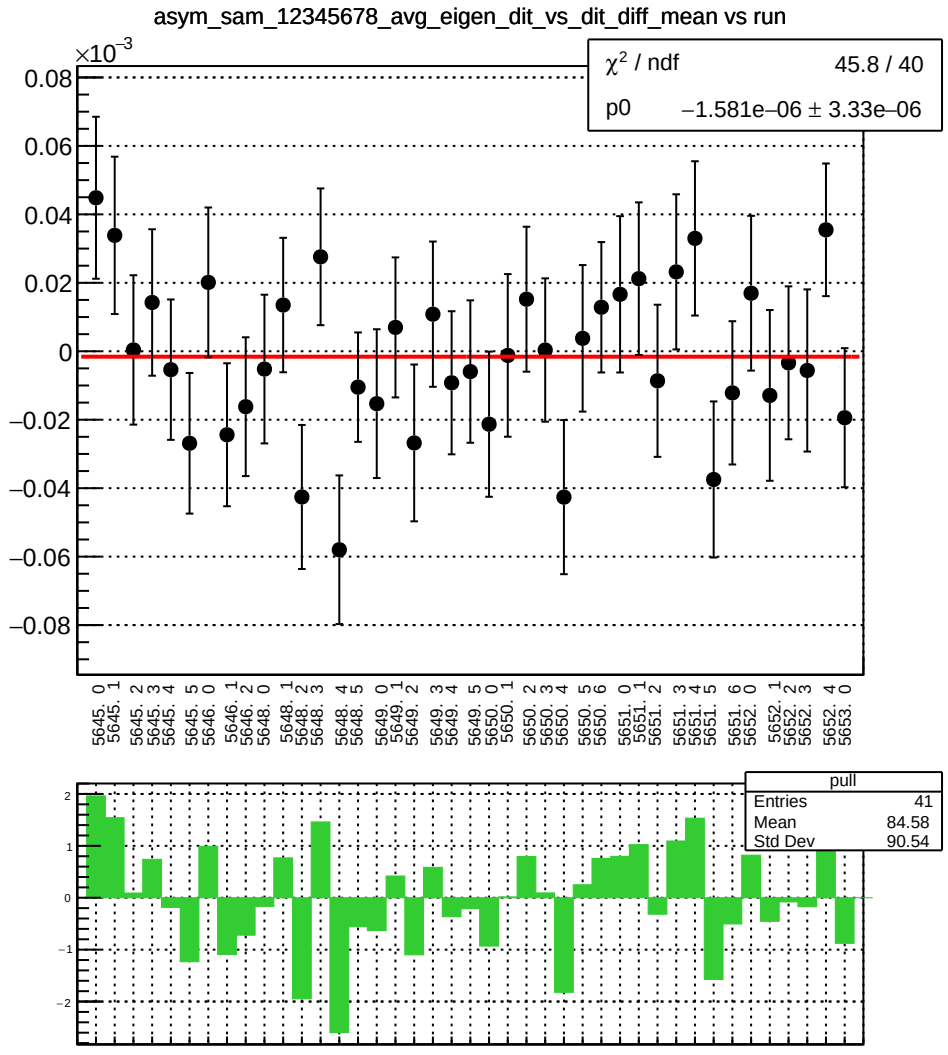

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.443e+05 / 40
p0 5.655e−11 ± 9.614e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

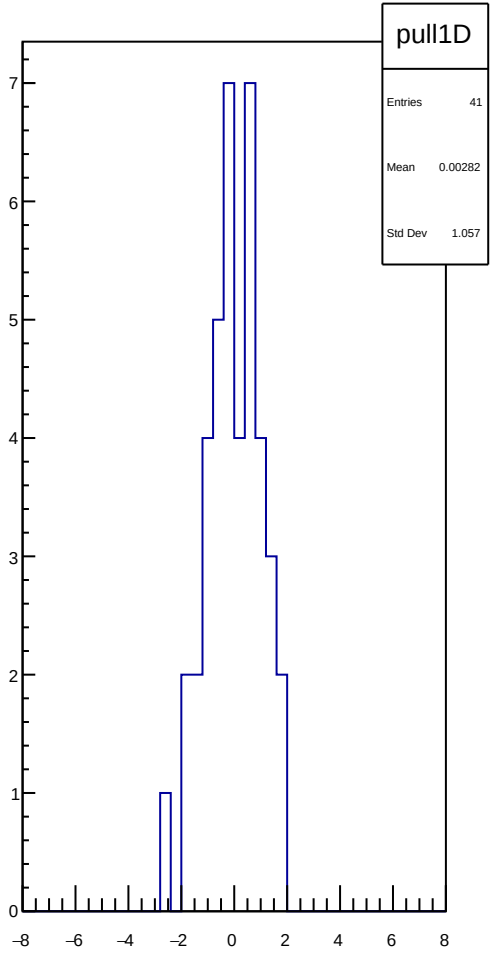

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.73 / 40
p0 −0.05181 ± 0.08309
pull
Entries 41
Mean 8.899
Std Dev 17.55
pull1D
Entries 41
Mean −0.05109
Std Dev 0.983

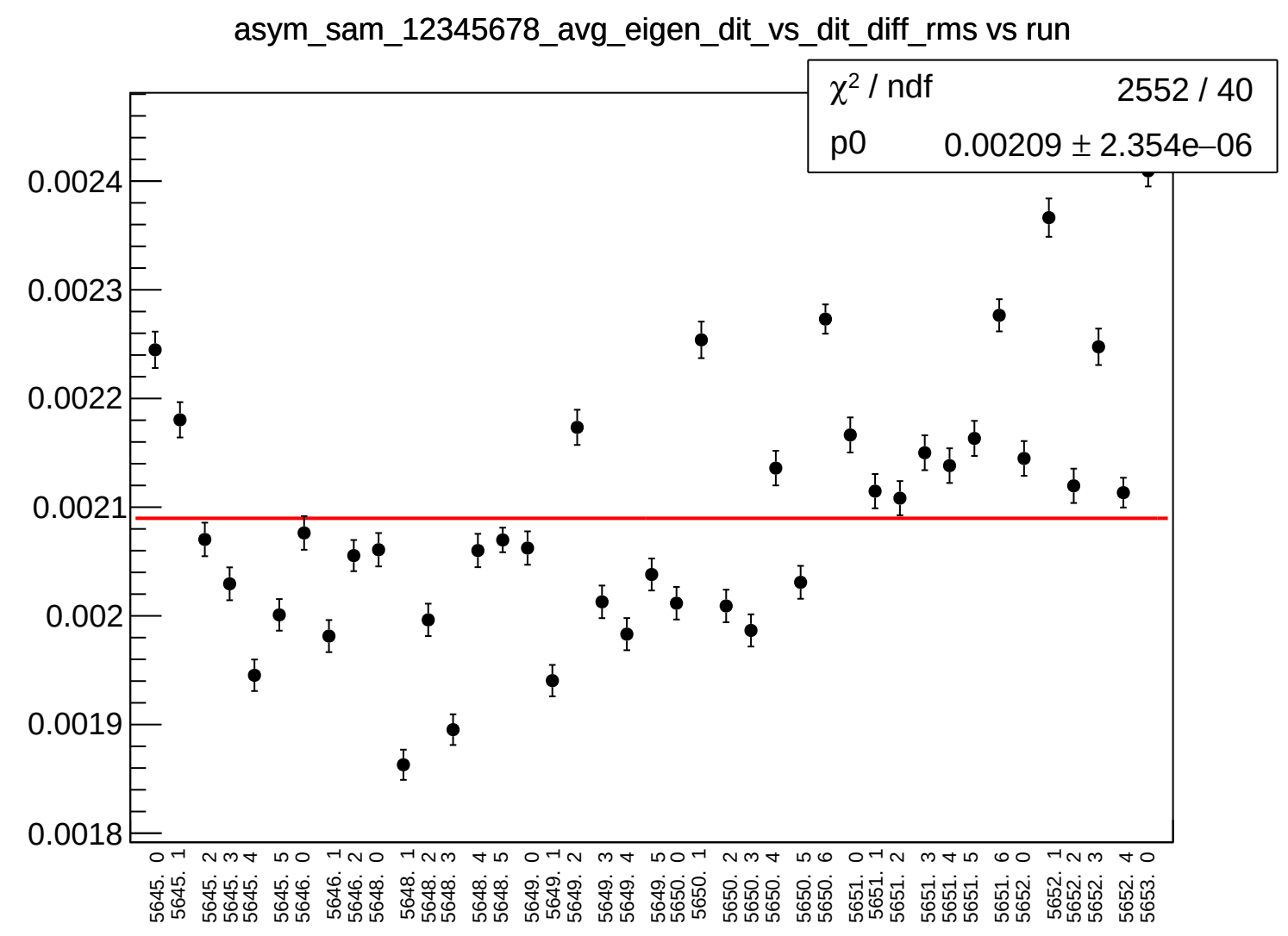

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.301e+04 / 40
p0 49.42 ± 0.05876
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

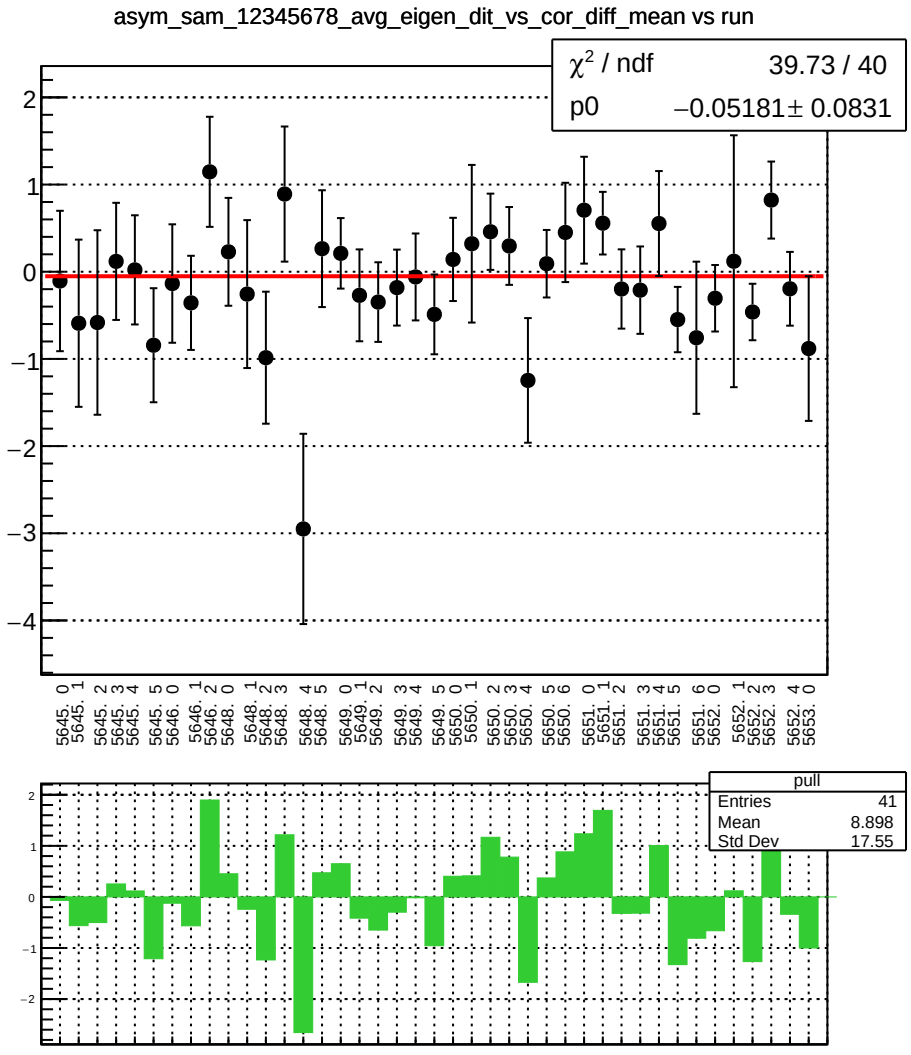

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.73 / 40
p0 −0.05181 ± 0.08309
pull
Entries 41
Mean 8.899
Std Dev 17.55
pull1D
Entries 41
Mean −0.05109
Std Dev 0.983

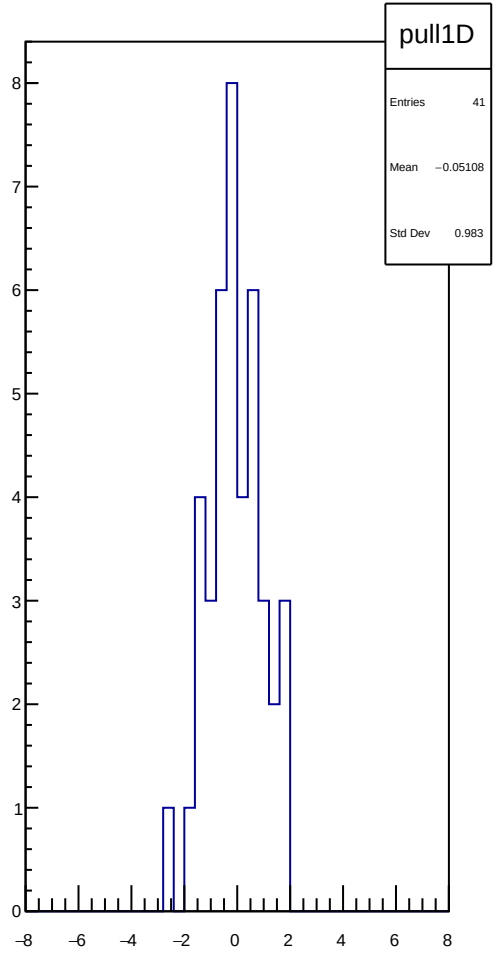

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.301e+04 / 40
p0 49.42 ± 0.05876
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

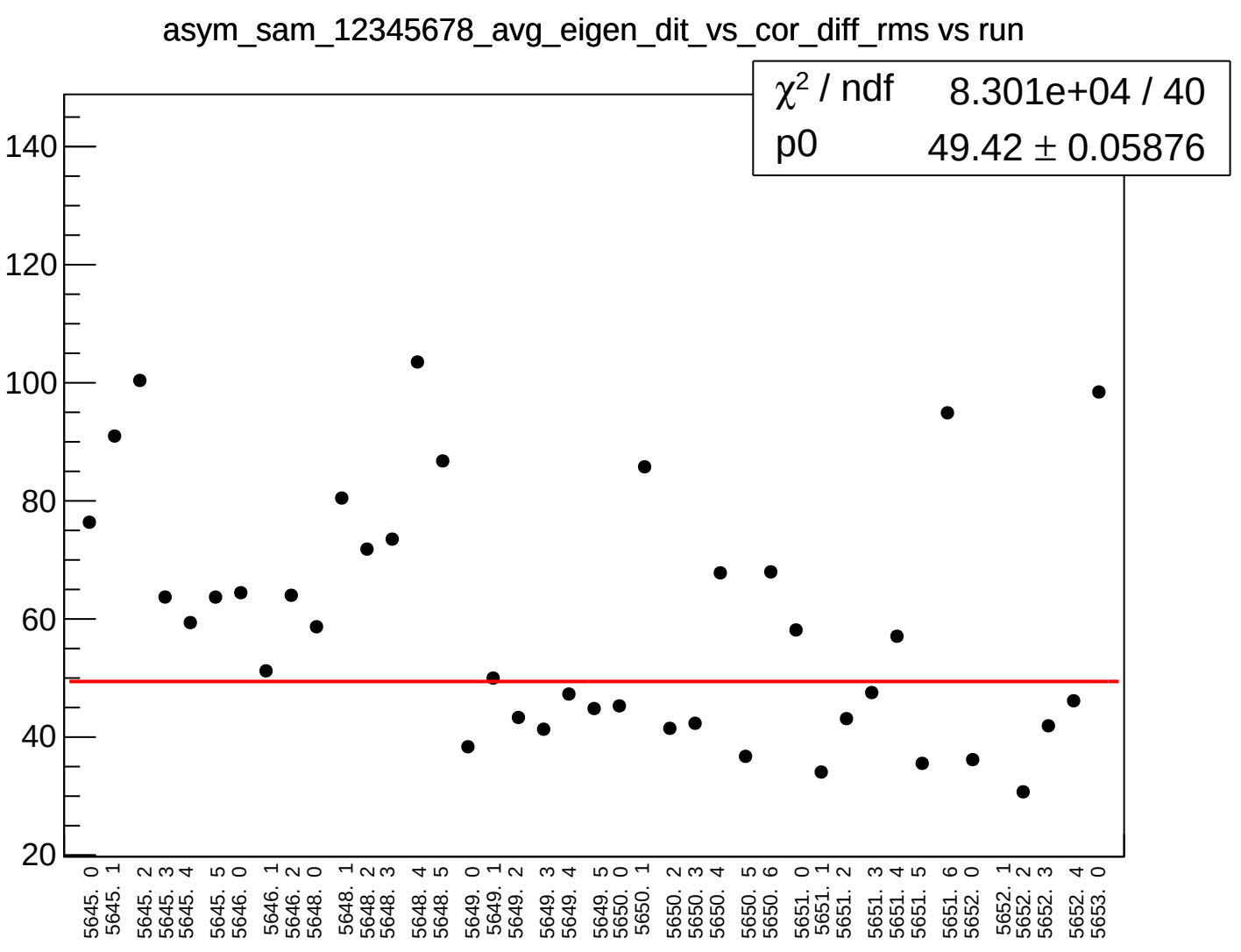

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.8 / 40
p0 −1.581e−06 ± 3.33e−06
pull
Entries 41
Mean 84.58
Std Dev 90.54

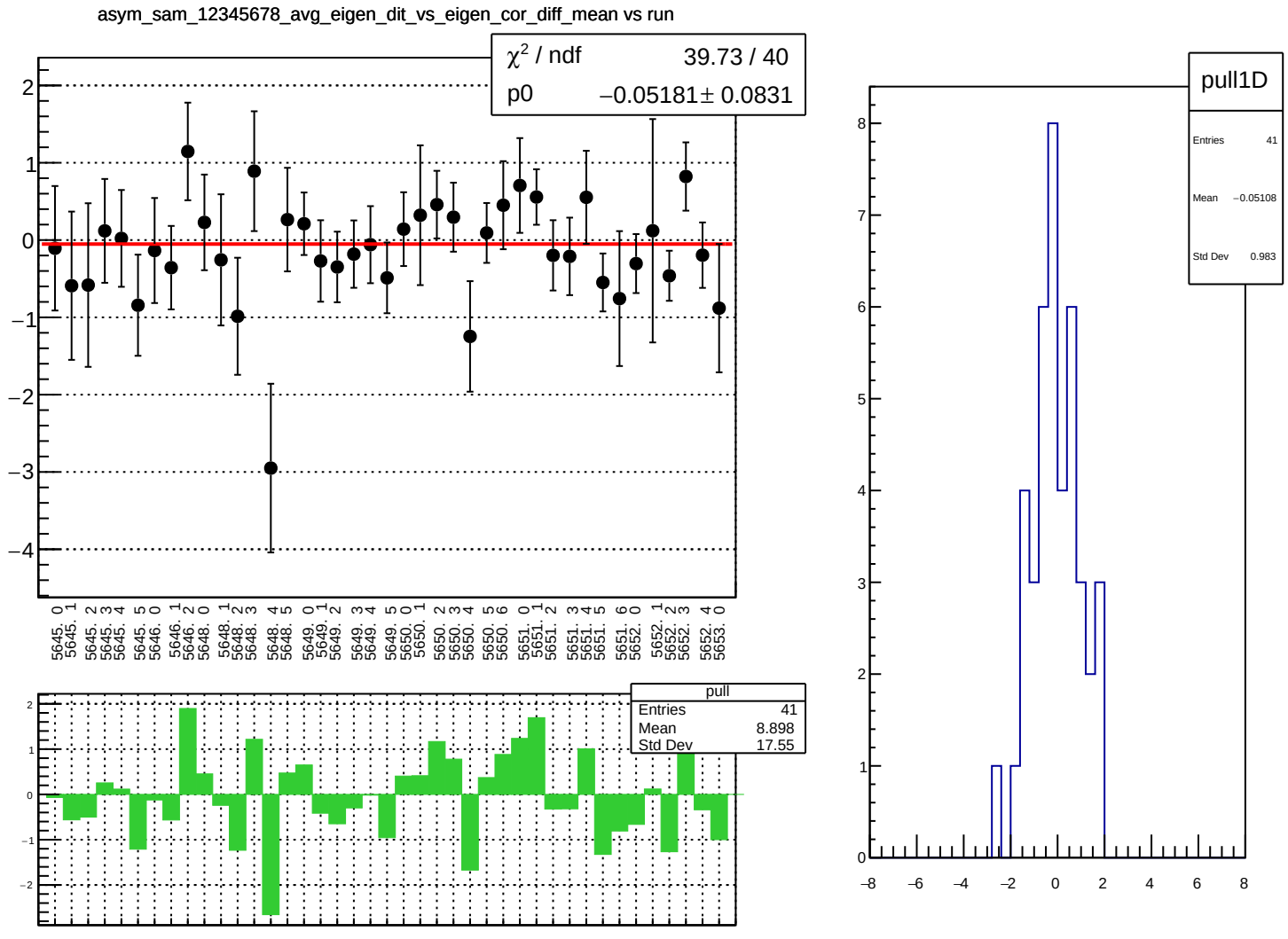

pull1D
Entries 41
Mean 0.00282
Std Dev 1.057

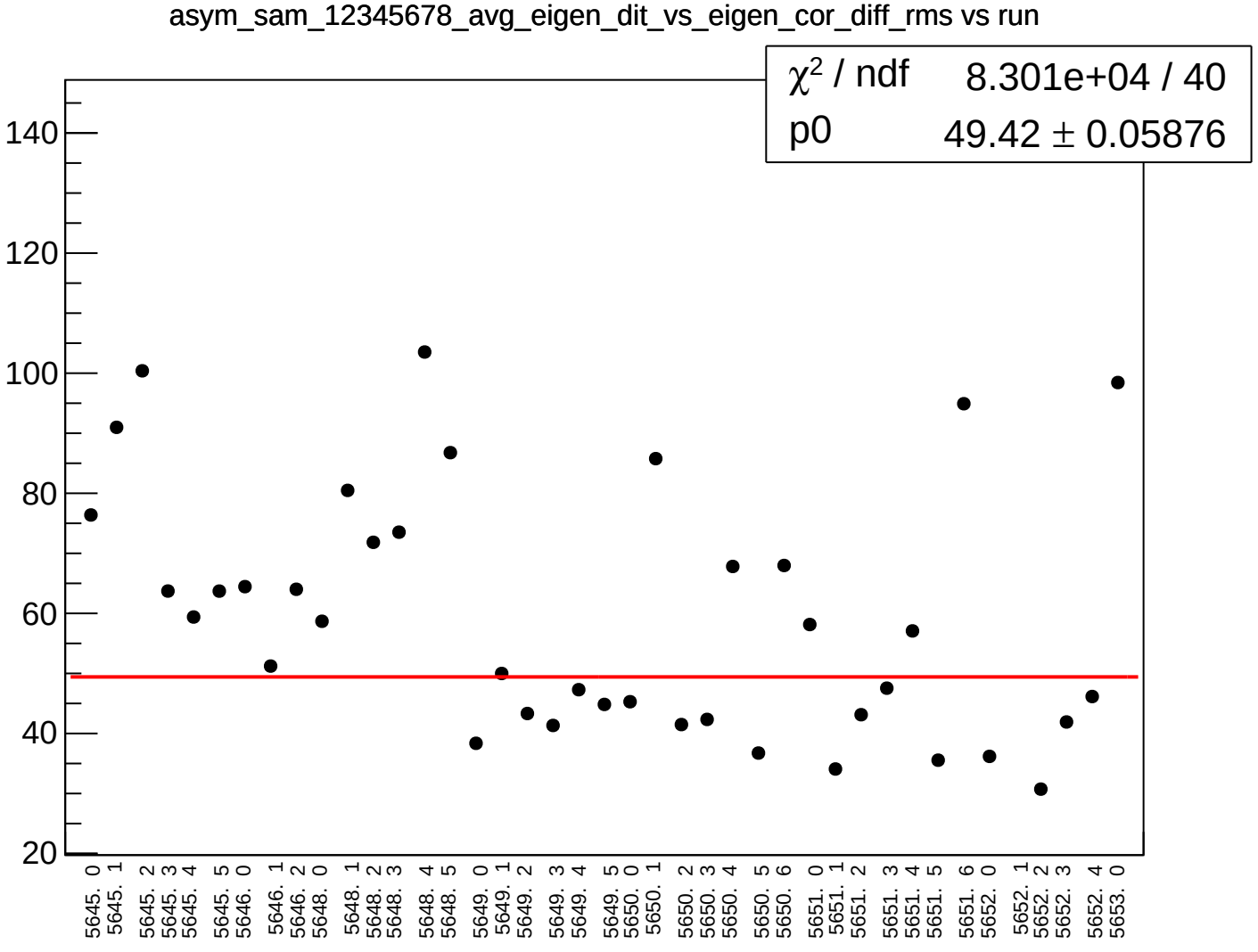

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2552 / 40
p0 0.00209 ± 2.354e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

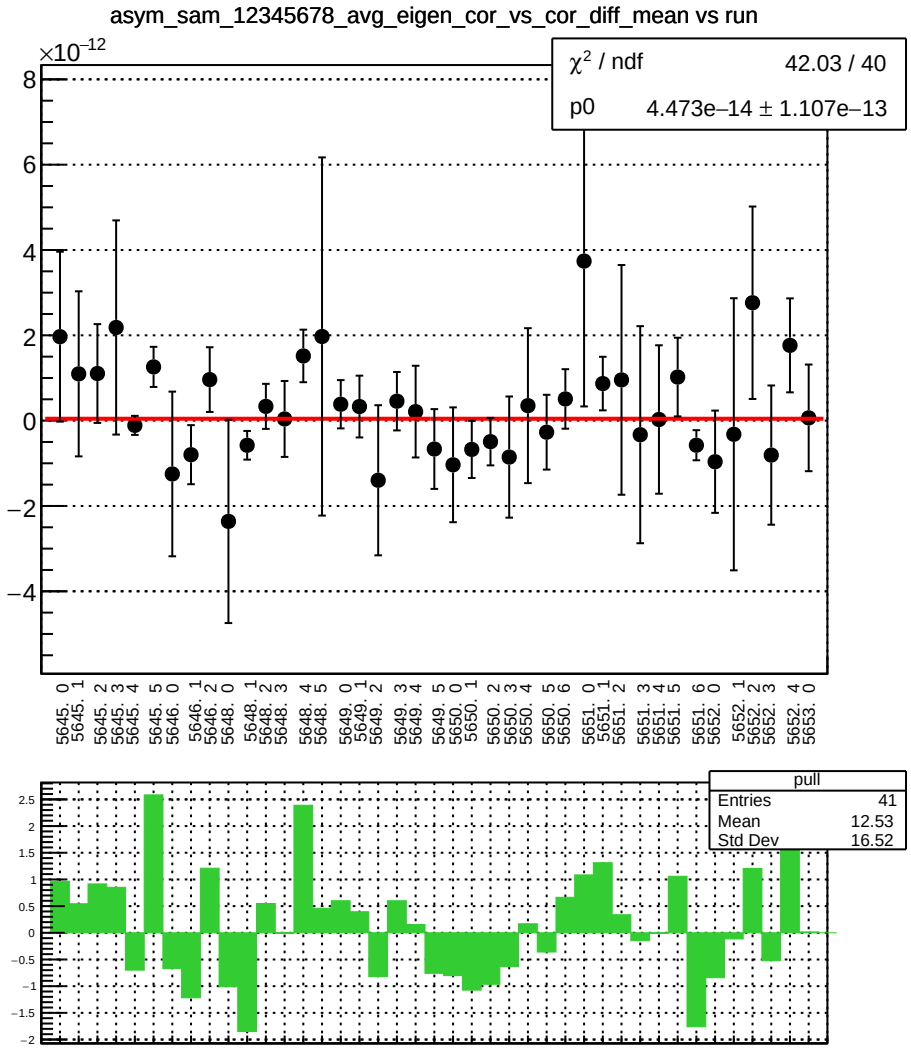

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.73 / 40
p0 −0.05181 ± 0.0831
pull
Entries 41
Mean 8.898
Std Dev 17.55

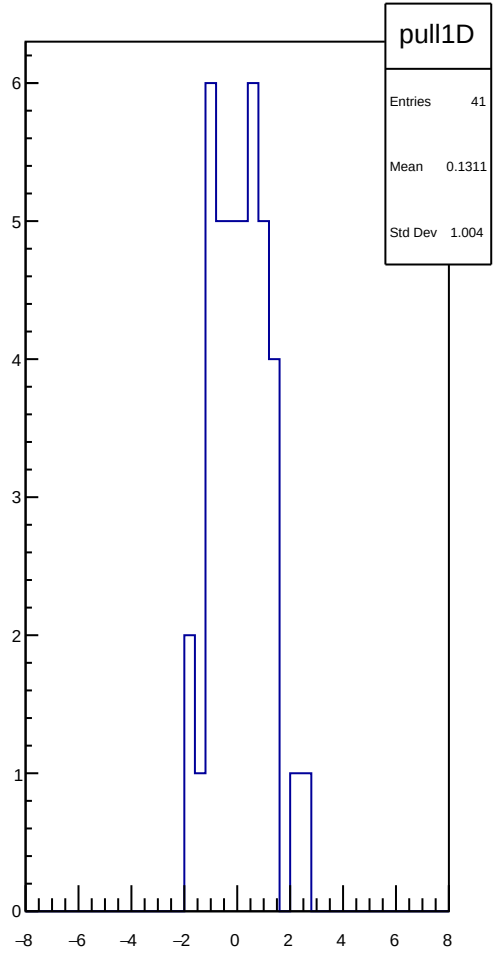

pull1D
Entries 41
Mean −0.05108
Std Dev 0.983

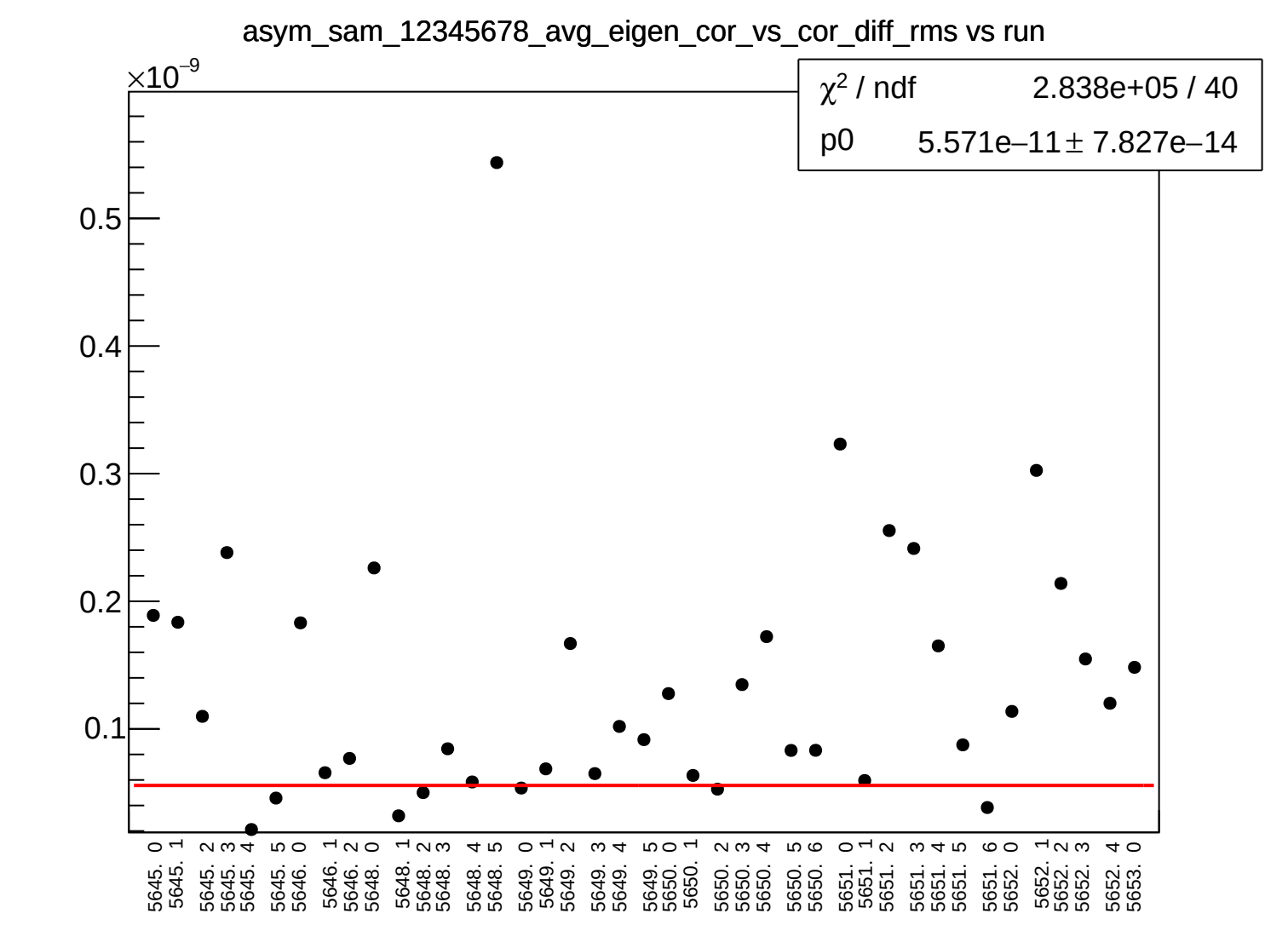

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.301e+04 / 40
p0 49.42 ± 0.05876
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

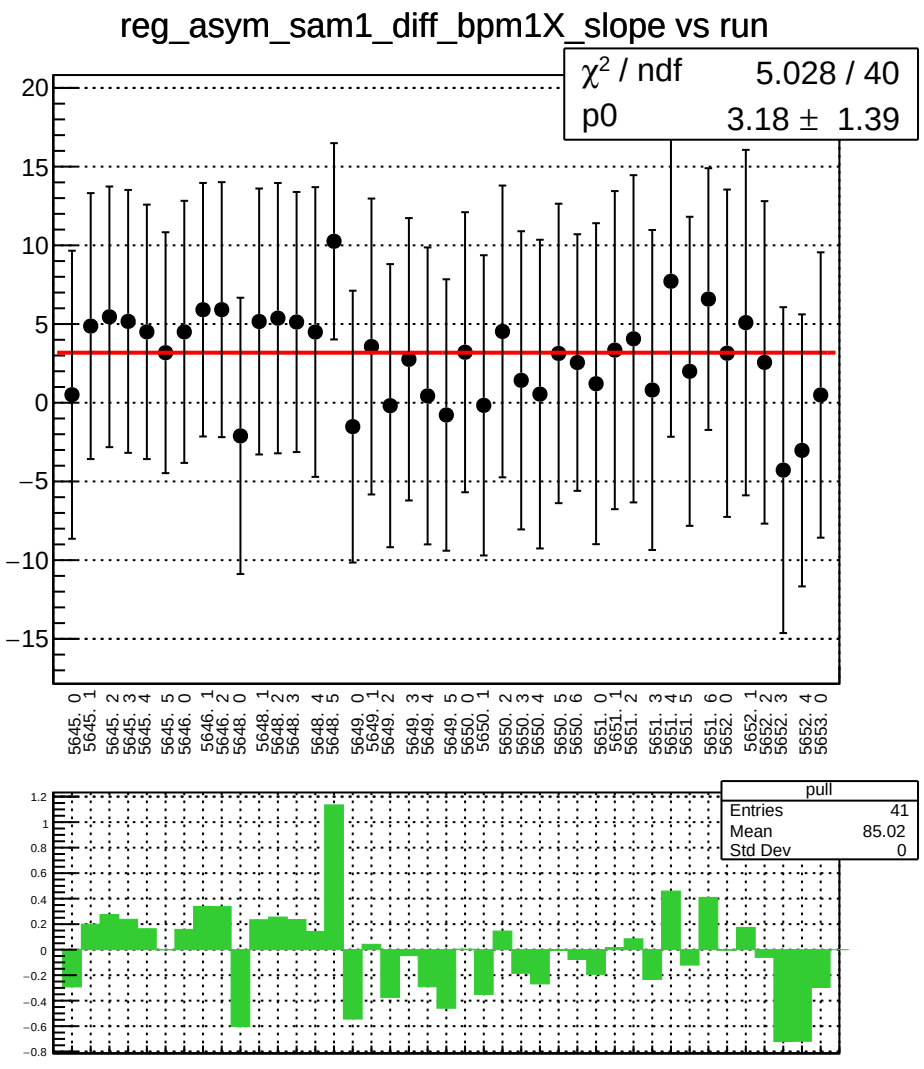

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.73 / 40
p0 −0.05181 ± 0.0831
pull
Entries 41
Mean 8.898
Std Dev 17.55
pull1D
Entries 41
Mean −0.05108
Std Dev 0.983

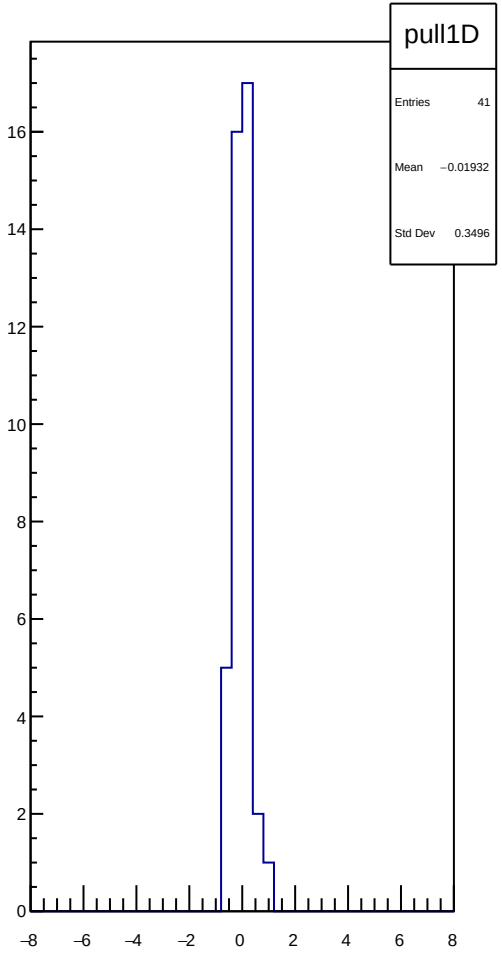

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.301e+04 / 40
p0 49.42 ± 0.05876
140
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

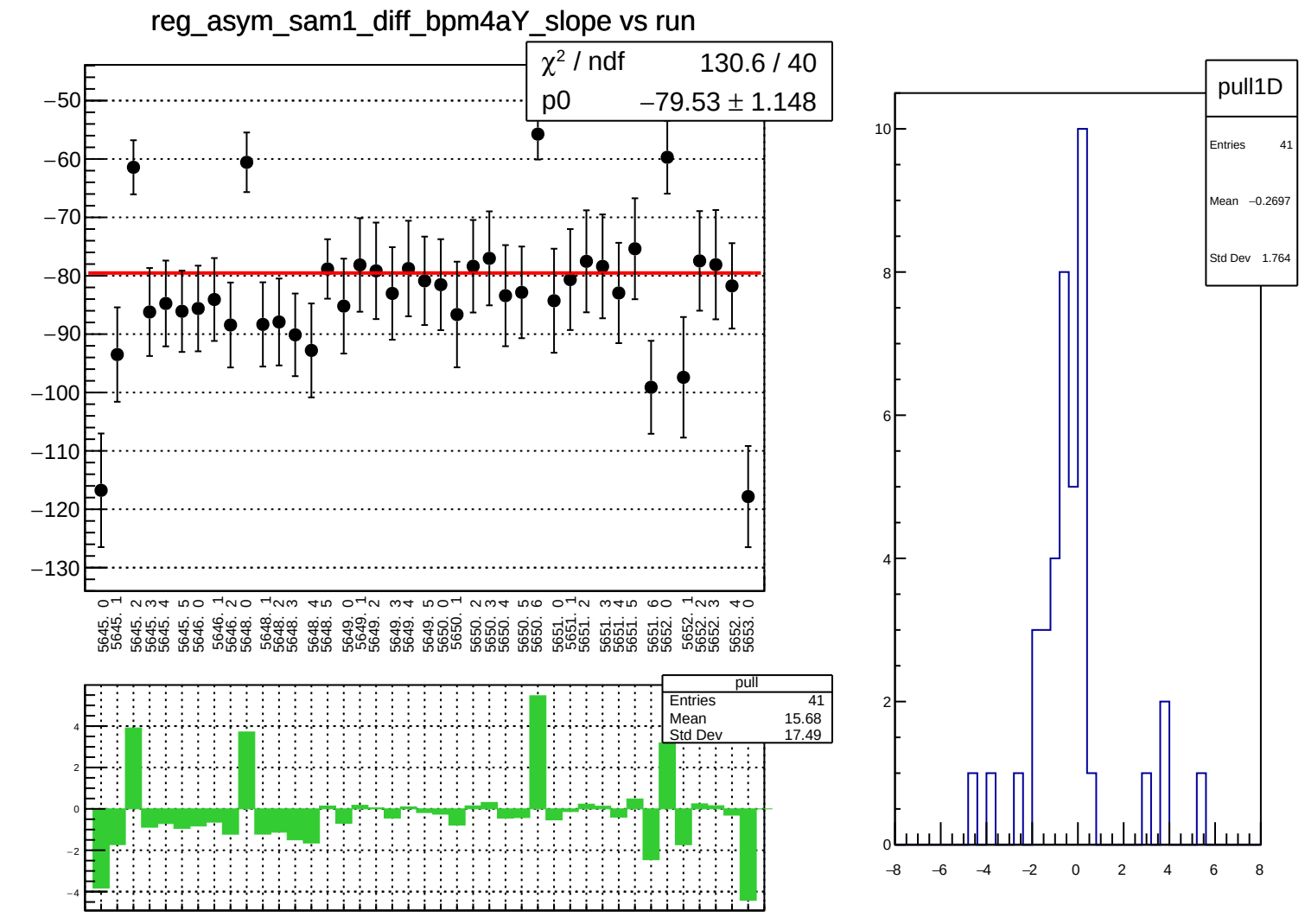

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.03 / 40
p0 4.473e−14 ± 1.107e−13
pull
Entries 41
Mean 12.53
Std Dev 16.52

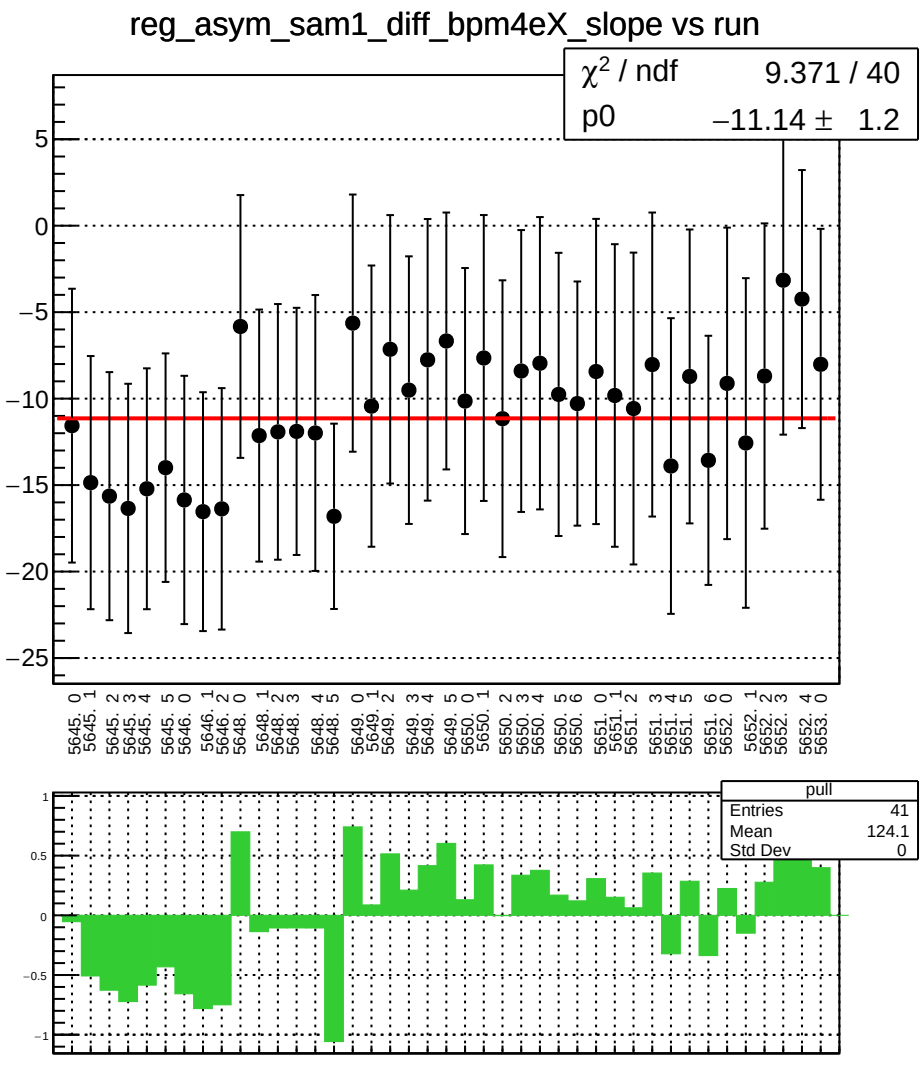

pull1D
Entries 41
Mean 0.1311
Std Dev 1.004

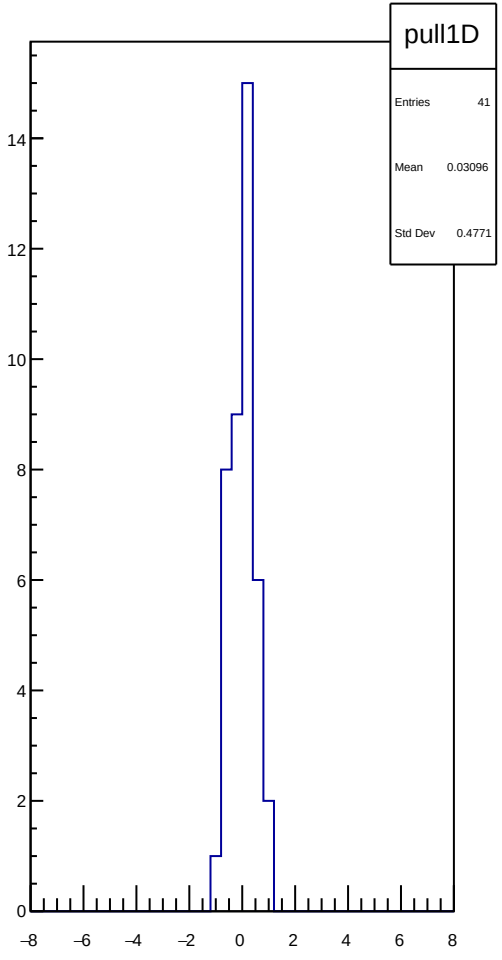

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.838e+05 / 40
p0 5.571e−11 ± 7.827e−14
0.5
0.4
0.3
0.2
0.1
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0

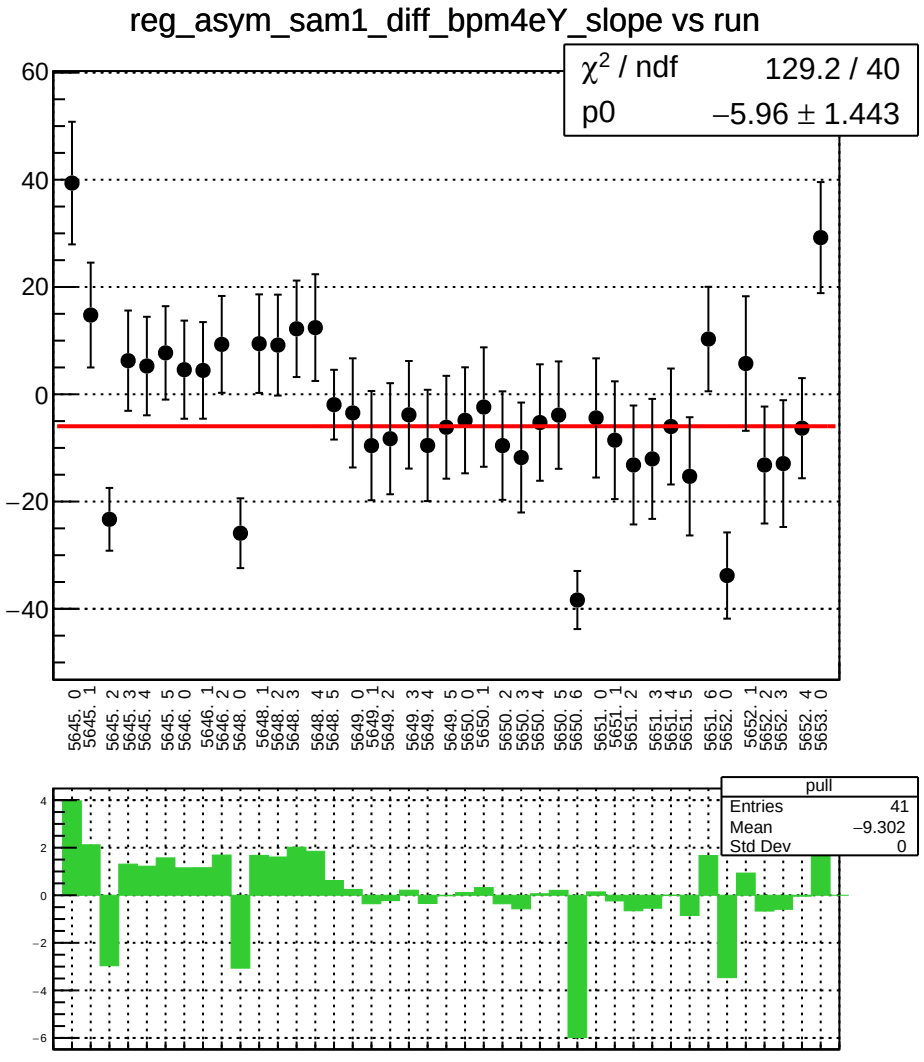

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5.028 / 40
p0 3.18 ± 1.39
pull
Entries 41
Mean 85.02
Std Dev 0

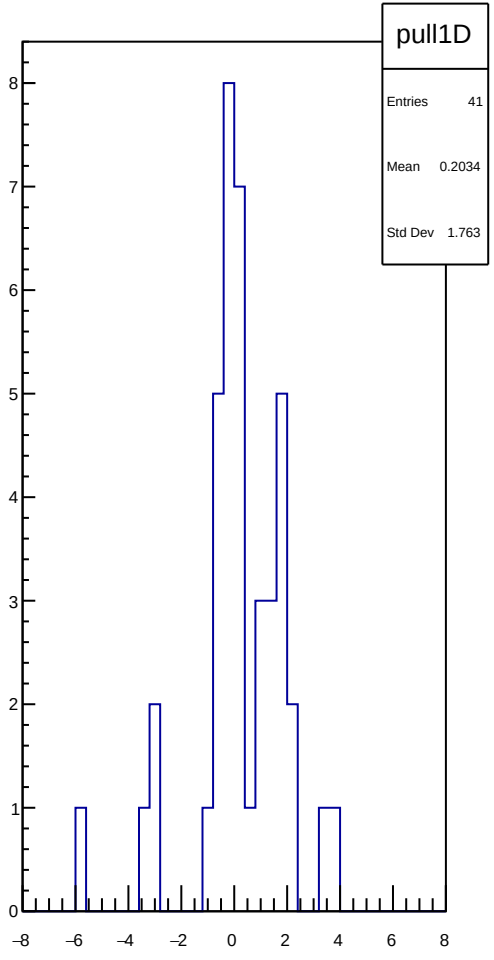

pull1D
Entries 41
Mean −0.01932
Std Dev 0.3496

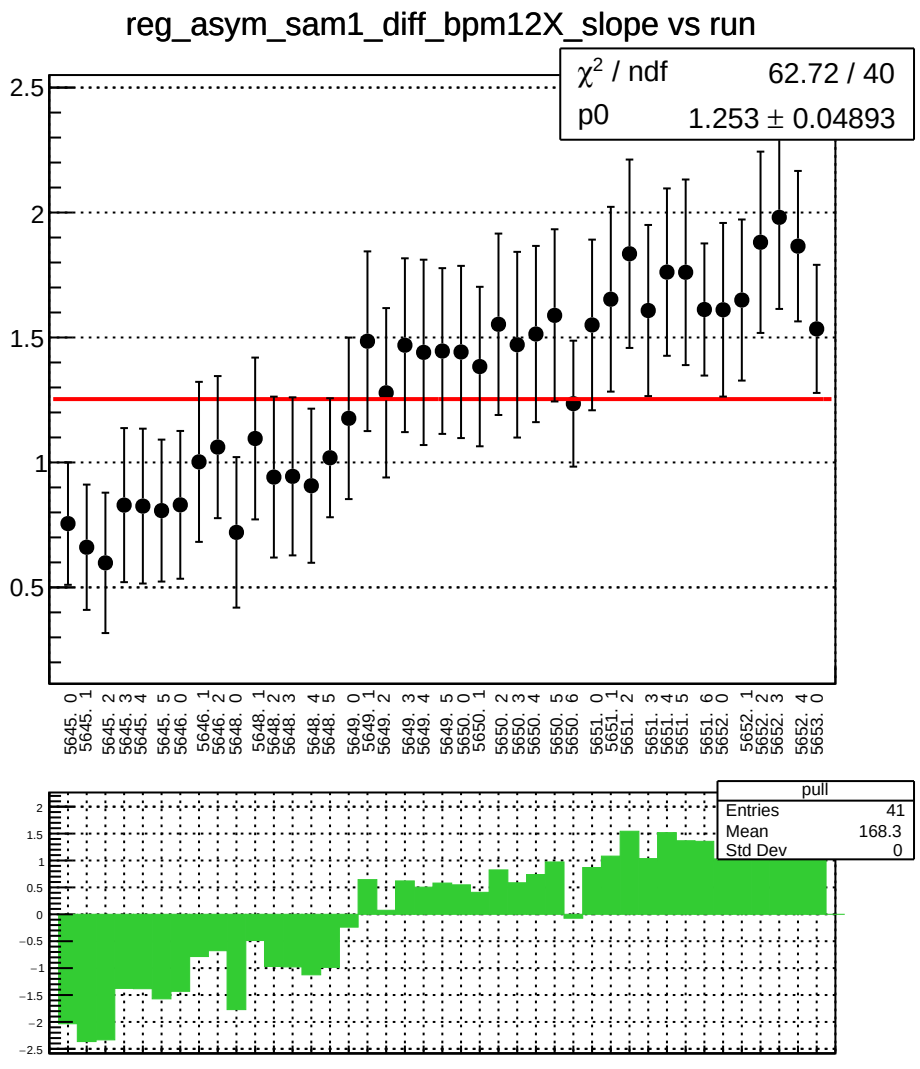

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 130.6 / 40
p0 −79.53 ± 1.148
pull
Entries 41
Mean 15.68
Std Dev 17.49
pull1D
Entries 41
Mean −0.2697
Std Dev 1.764

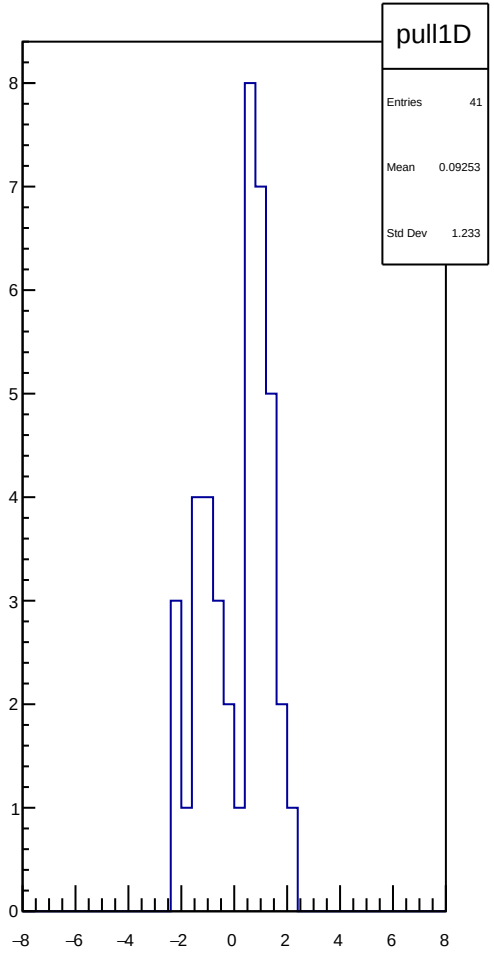

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 9.371 / 40
p0 −11.14 ± 1.2
pull
Entries 41
Mean 124.1
Std Dev 0

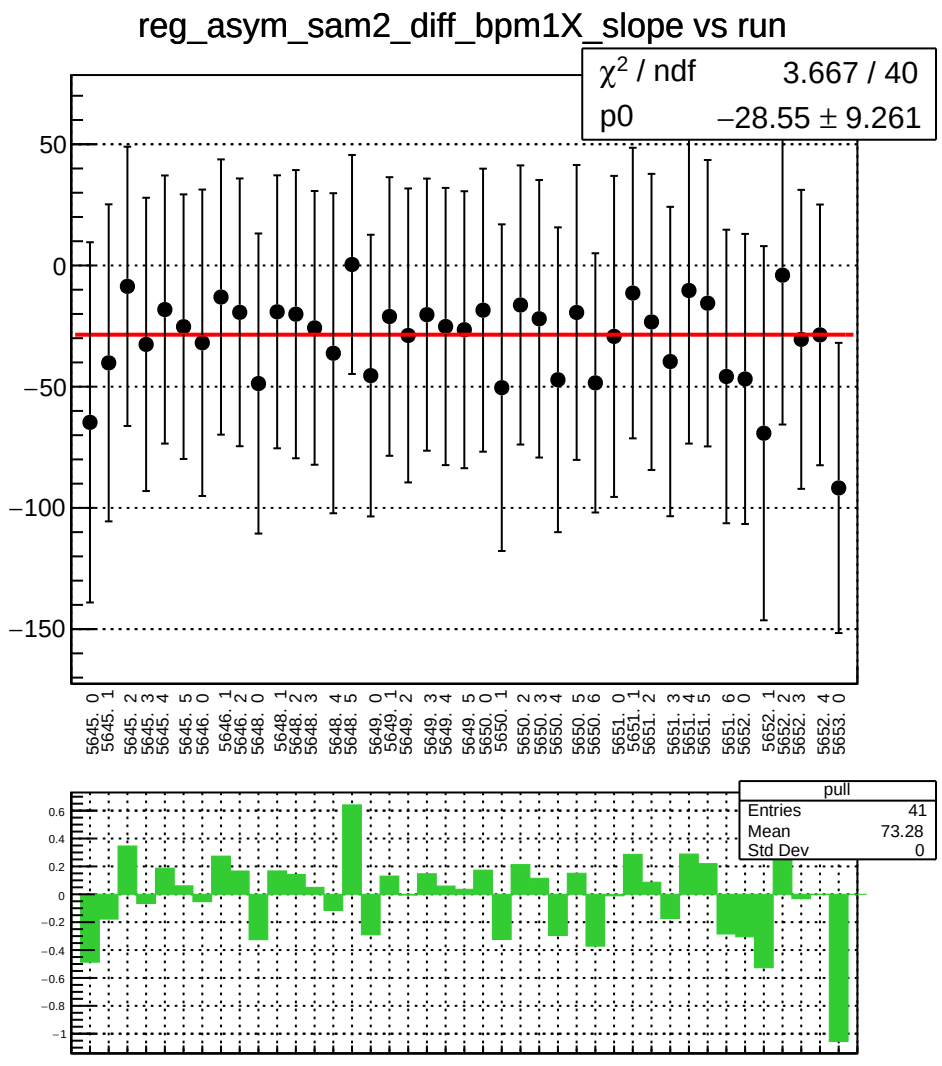

pull1D
Entries 41
Mean 0.03096
Std Dev 0.4771

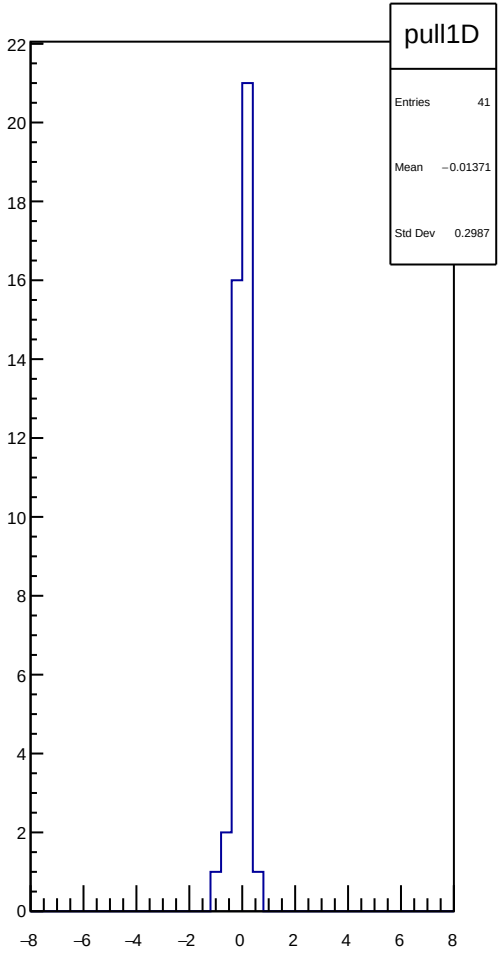

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 129.2 / 40
p0 −5.96 ± 1.443
pull
Entries 41
Mean −9.302
Std Dev 0

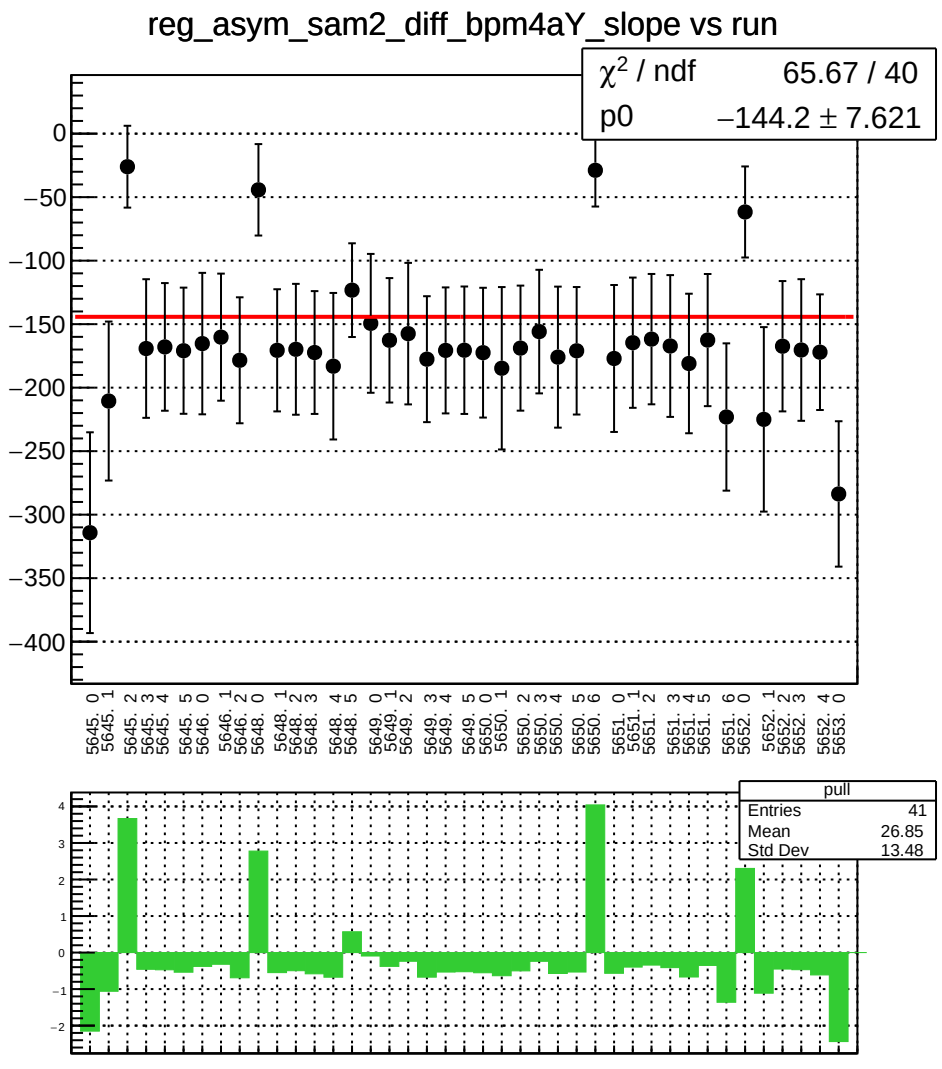

pull1D
Entries 41
Mean 0.2034
Std Dev 1.763

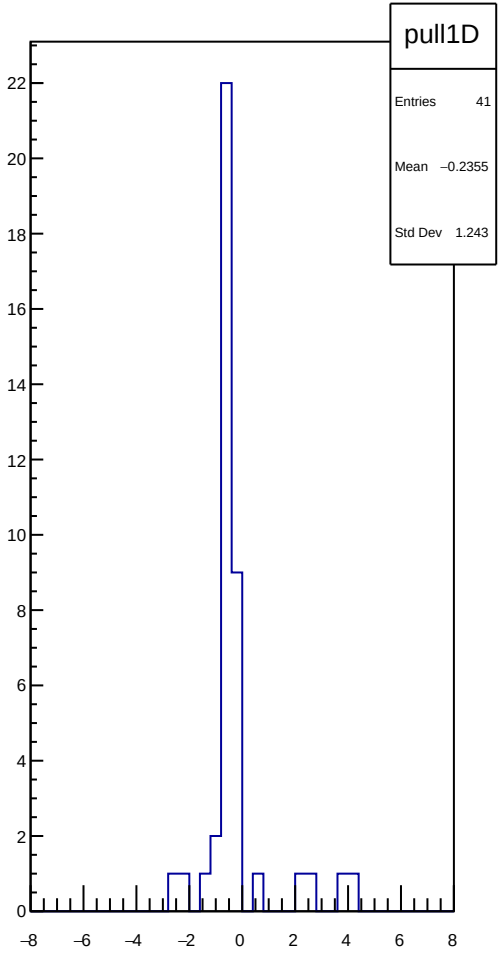

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 62.72 / 40
p0 1.253 ± 0.04893
pull
Entries 41
Mean 168.3
Std Dev 0

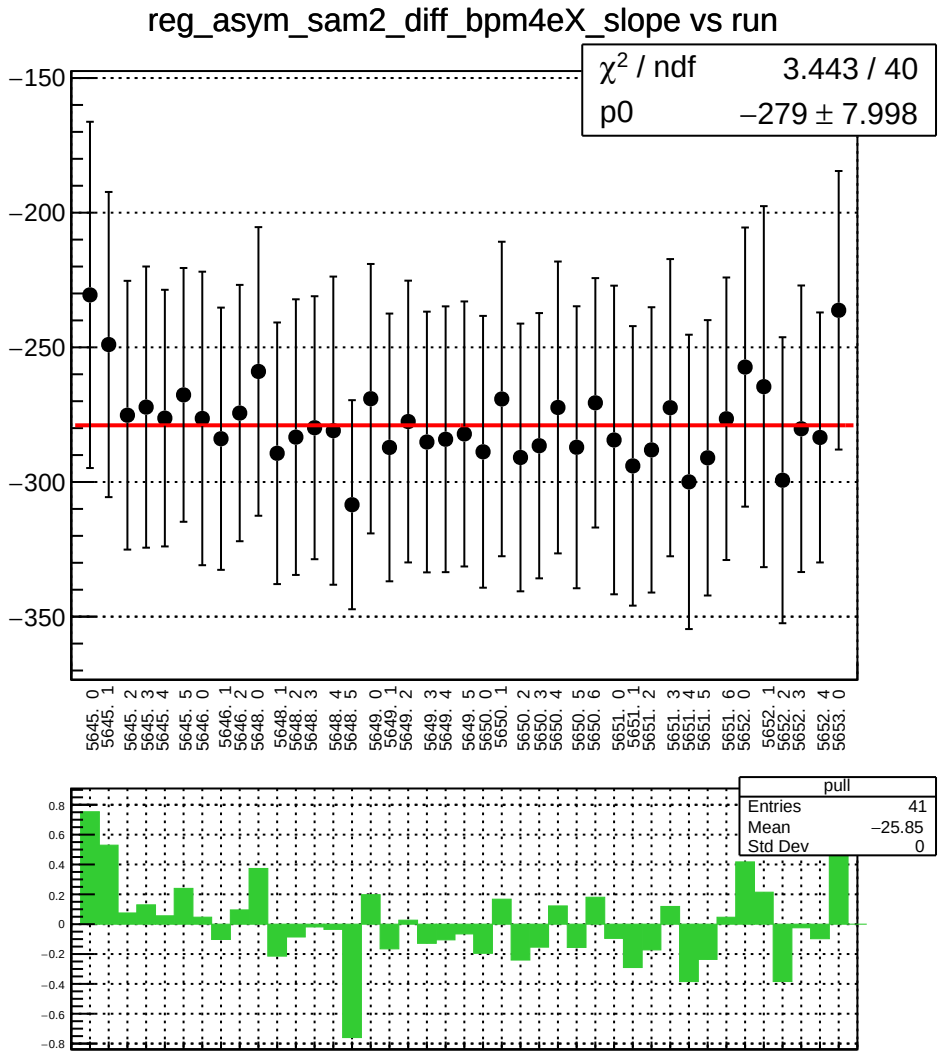

pull1D
Entries 41
Mean 0.09253
Std Dev 1.233

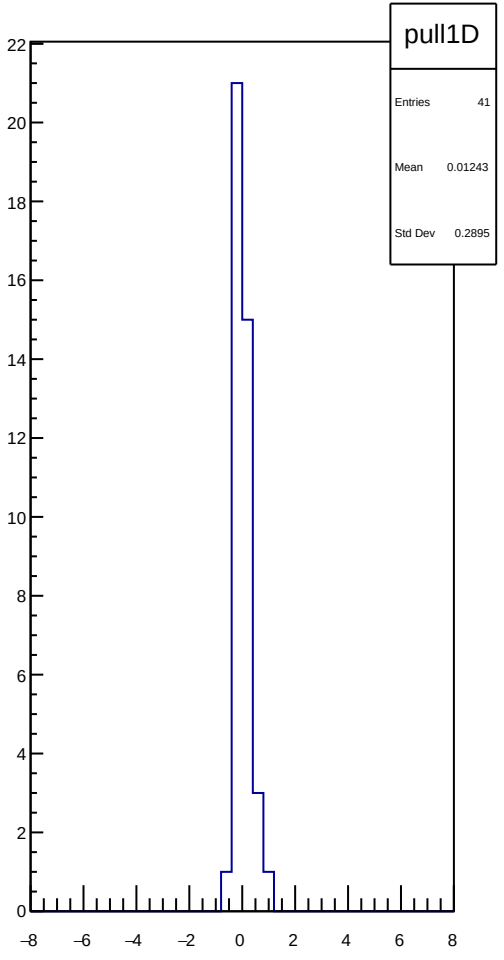

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 3.667 / 40
p0 −28.55 ± 9.261
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 73.28
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

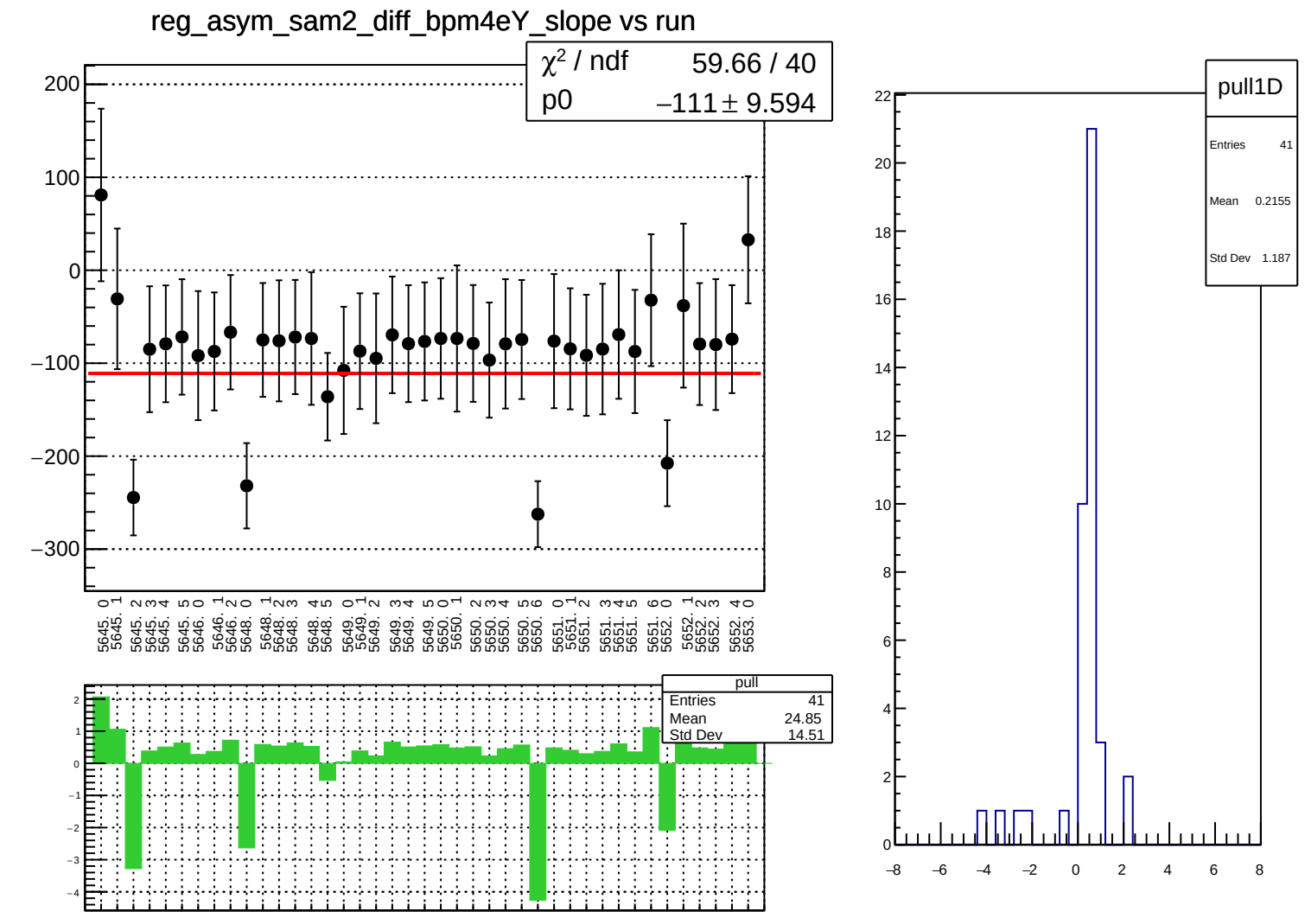

pull1D
Entries 41
Mean −0.01371
Std Dev 0.2987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

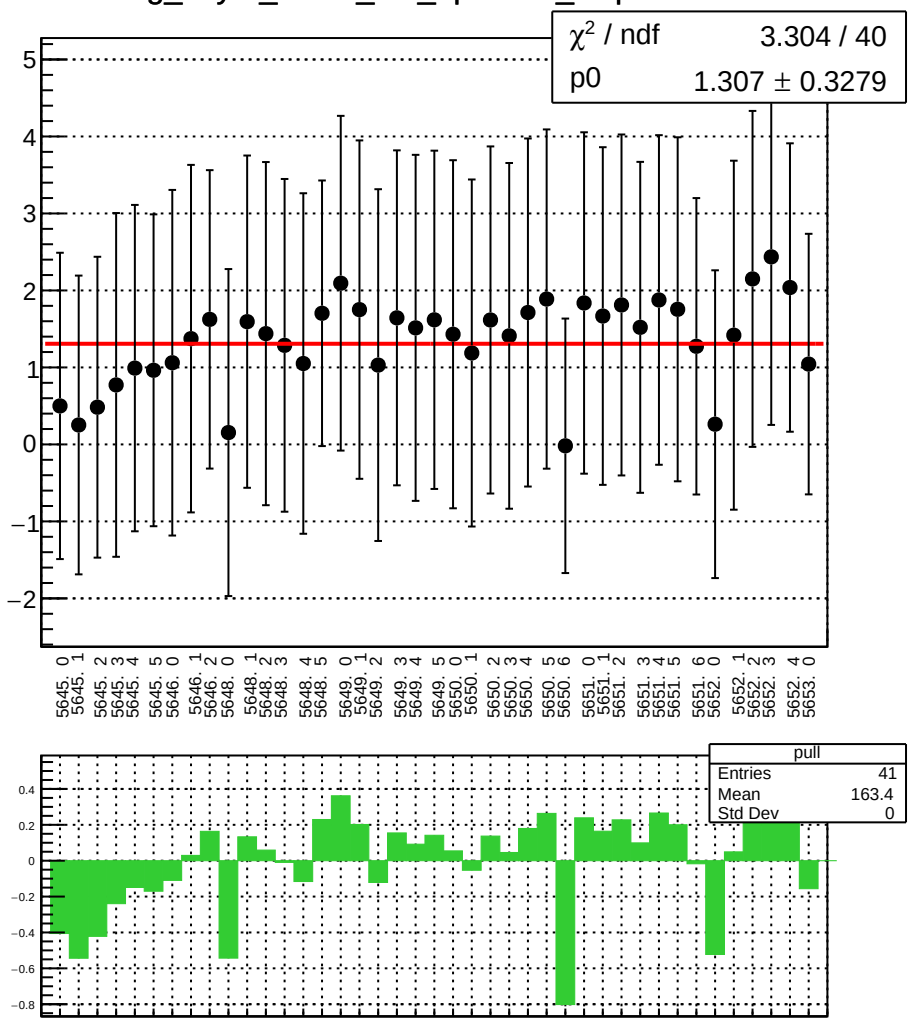

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 65.67 / 40
p0 −144.2 ± 7.621
pull
Entries 41
Mean 26.85
Std Dev 13.48

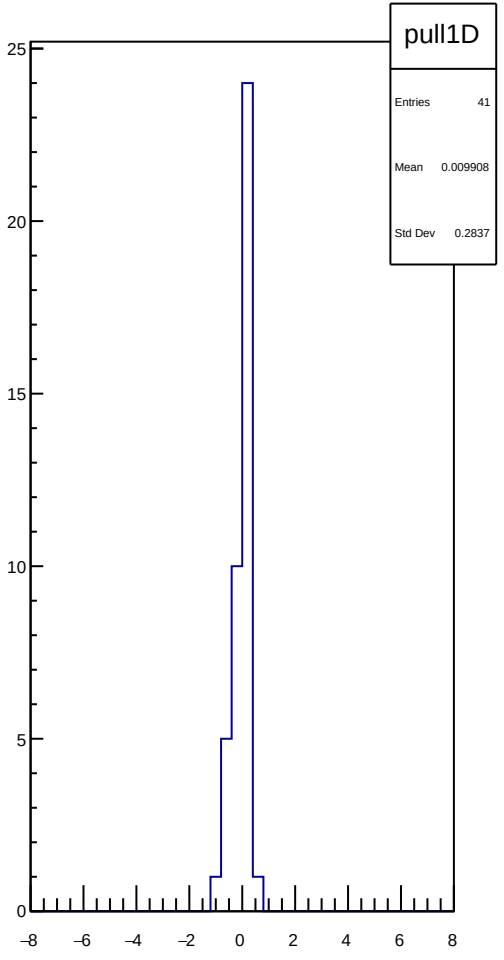

pull1D
Entries 41
Mean −0.2355
Std Dev 1.243

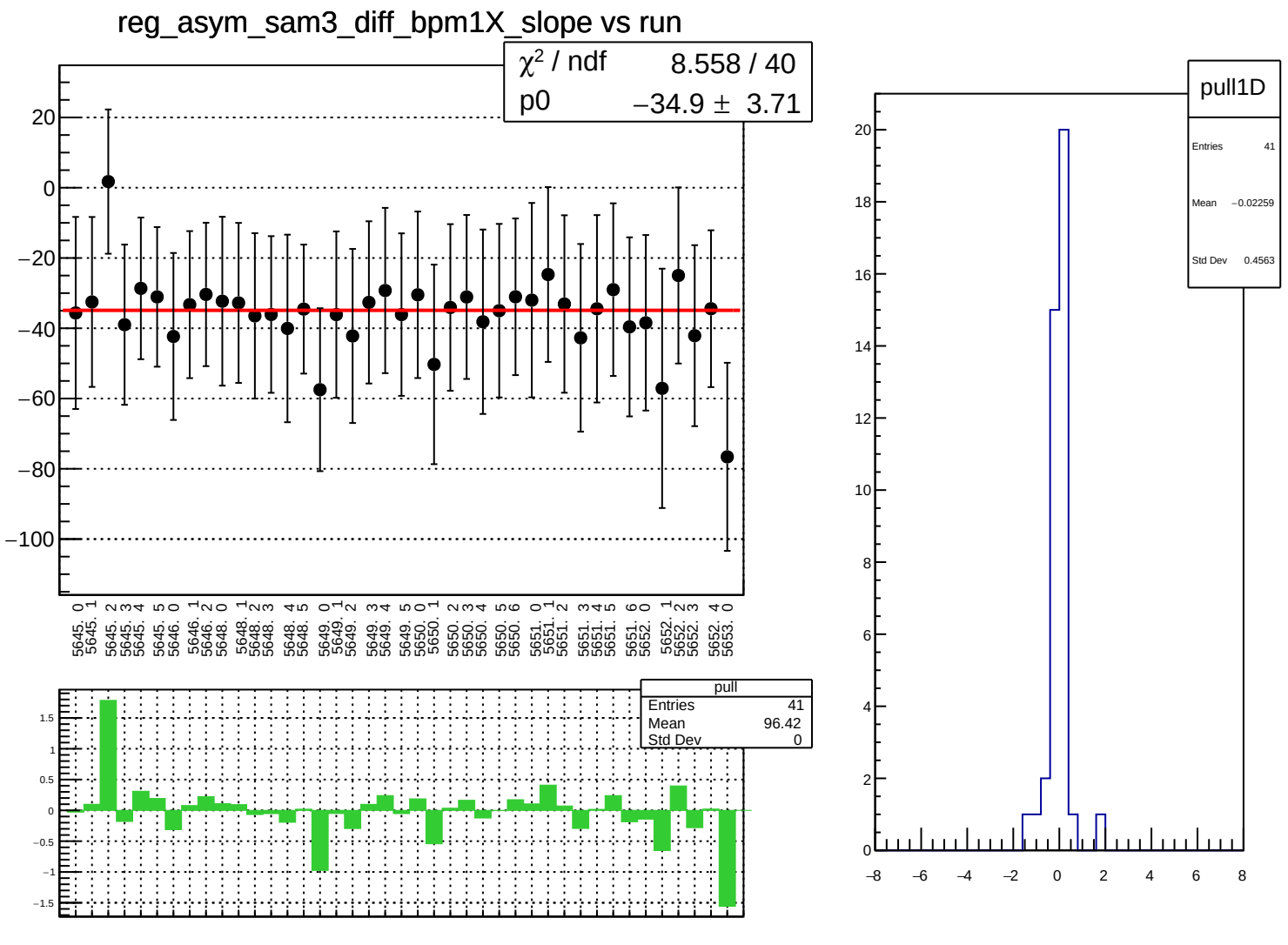

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 3.443 / 40
p0 −279 ± 7.998
−150
−200
−250
−300
−350
pull
Entries 41
Mean −25.85
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

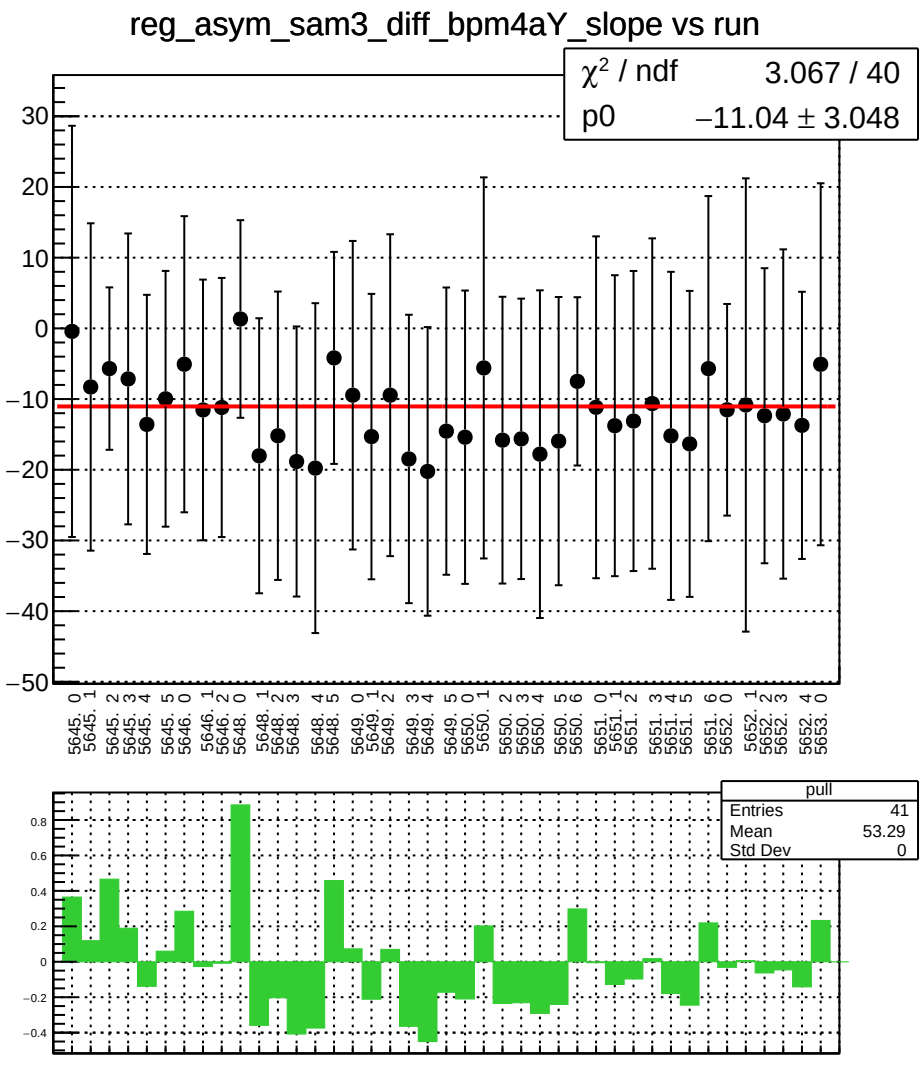

pull1D
Entries 41
Mean 0.01243
Std Dev 0.2895
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

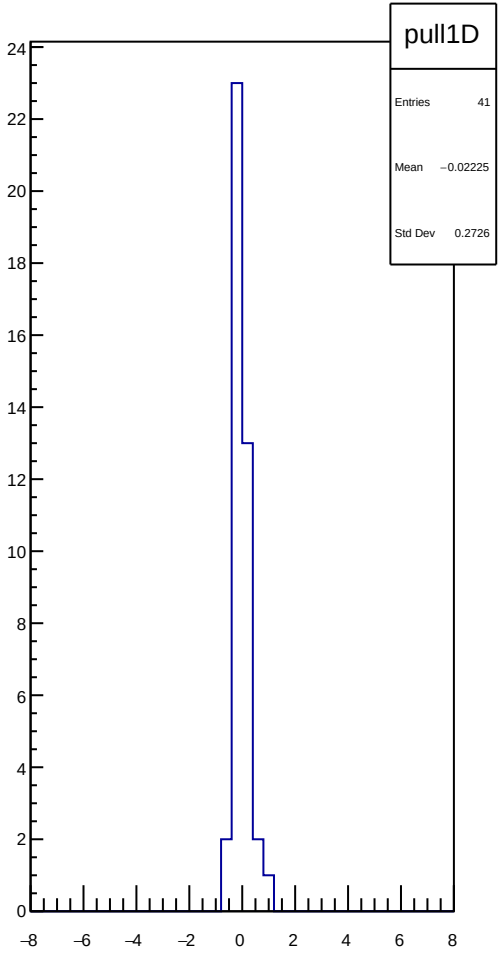

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 59.66 / 40
p0 −111 ± 9.594
pull
Entries 41
Mean 24.85
Std Dev 14.51
pull1D
Entries 41
Mean 0.2155
Std Dev 1.187

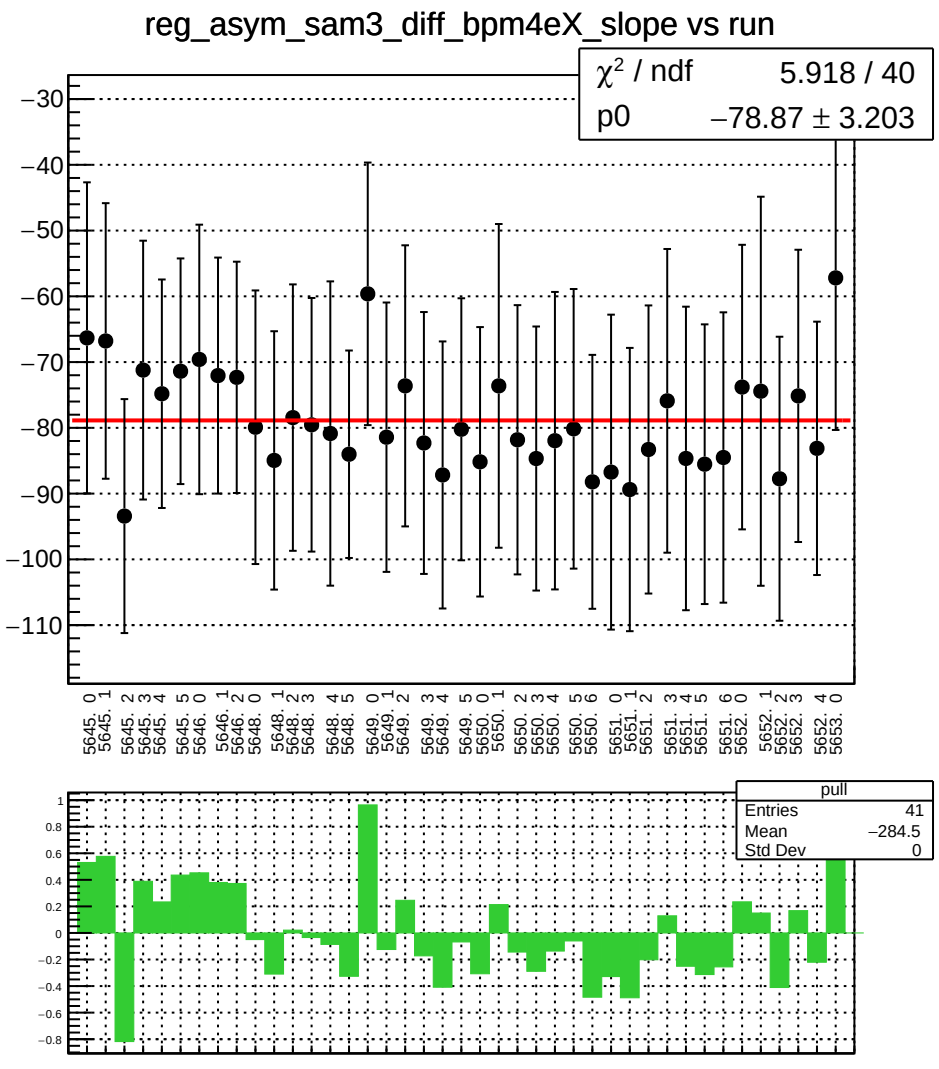

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 3.304 / 40
p0 1.307 ± 0.3279
pull
Entries 41
Mean 163.4
Std Dev 0

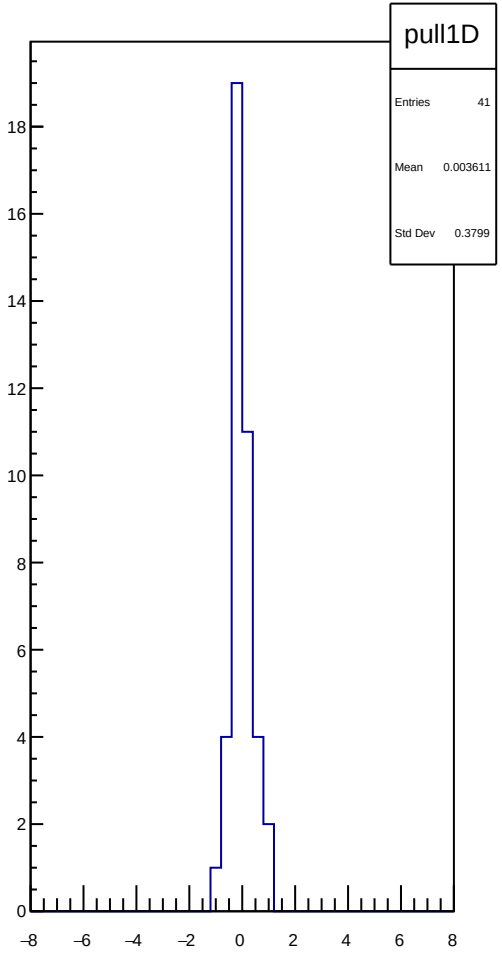

pull1D
Entries 41
Mean 0.009908
Std Dev 0.2837

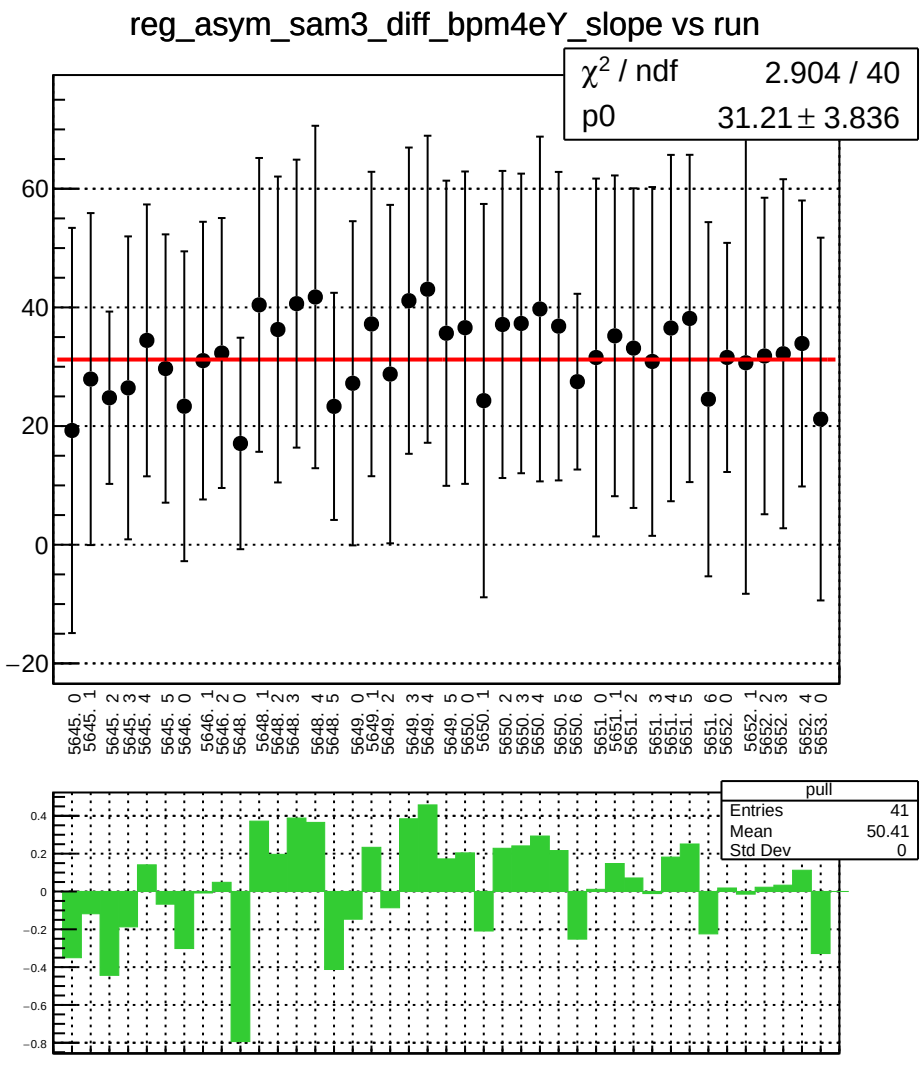

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 8.558 / 40
p0 −34.9 ± 3.71
pull
Entries 41
Mean 96.42
Std Dev 0
pull1D
Entries 41
Mean −0.02259
Std Dev 0.4563

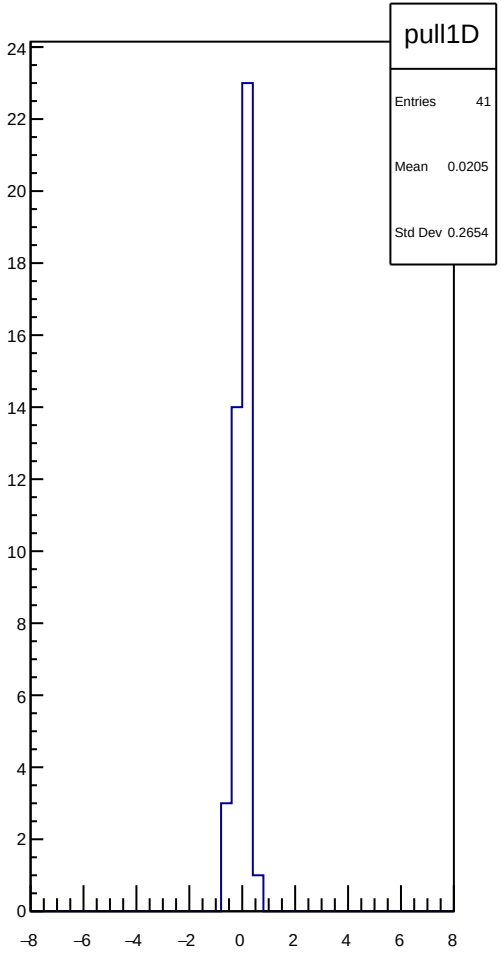

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.067 / 40
p0 −11.04 ± 3.048
pull
Entries 41
Mean 53.29
Std Dev 0

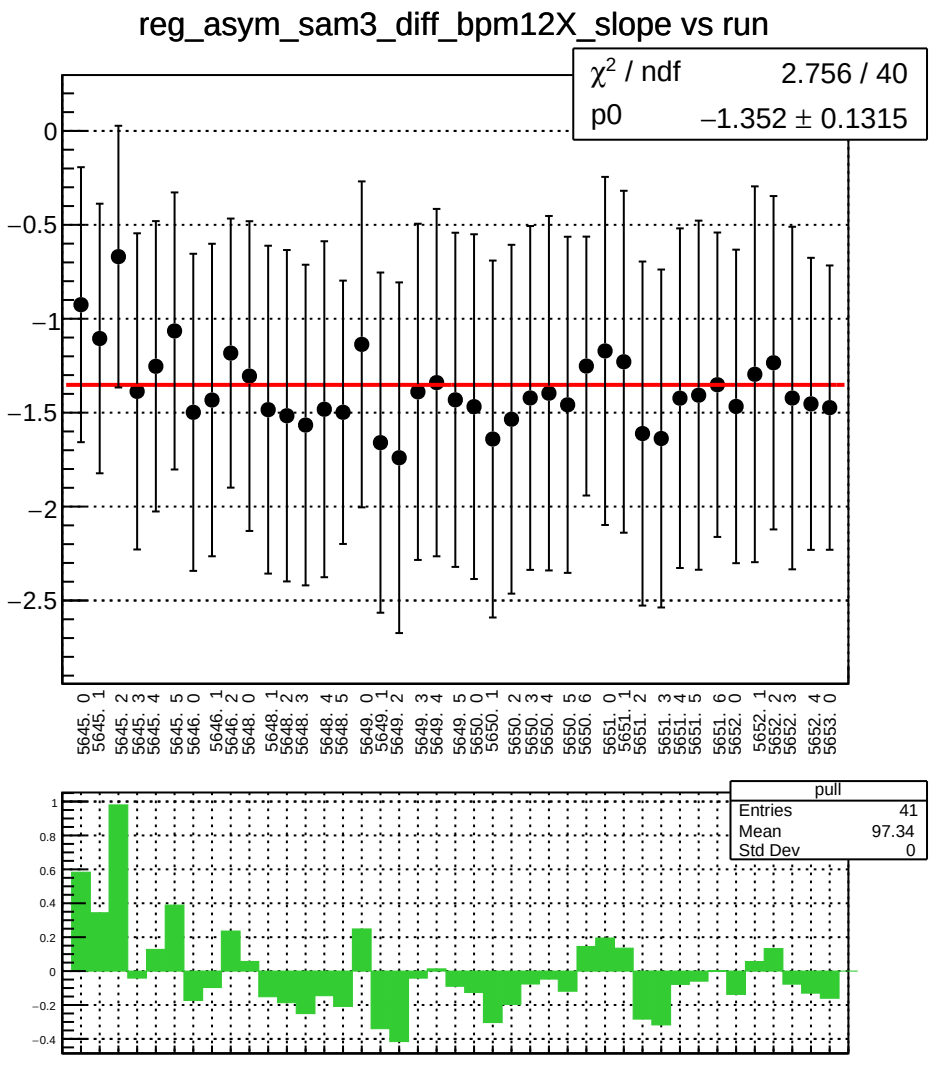

pull1D
Entries 41
Mean −0.02225
Std Dev 0.2726

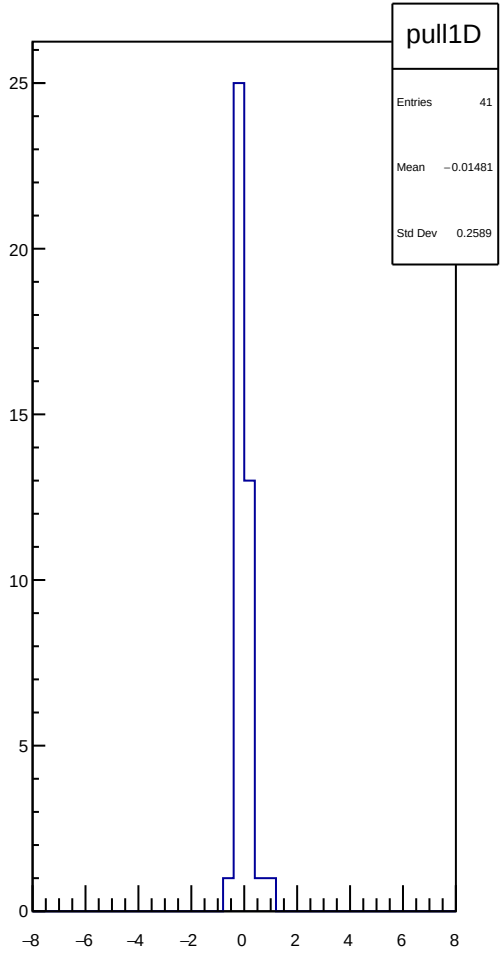

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 5.918 / 40
p0 −78.87 ± 3.203
pull
Entries 41
Mean −284.5
Std Dev 0

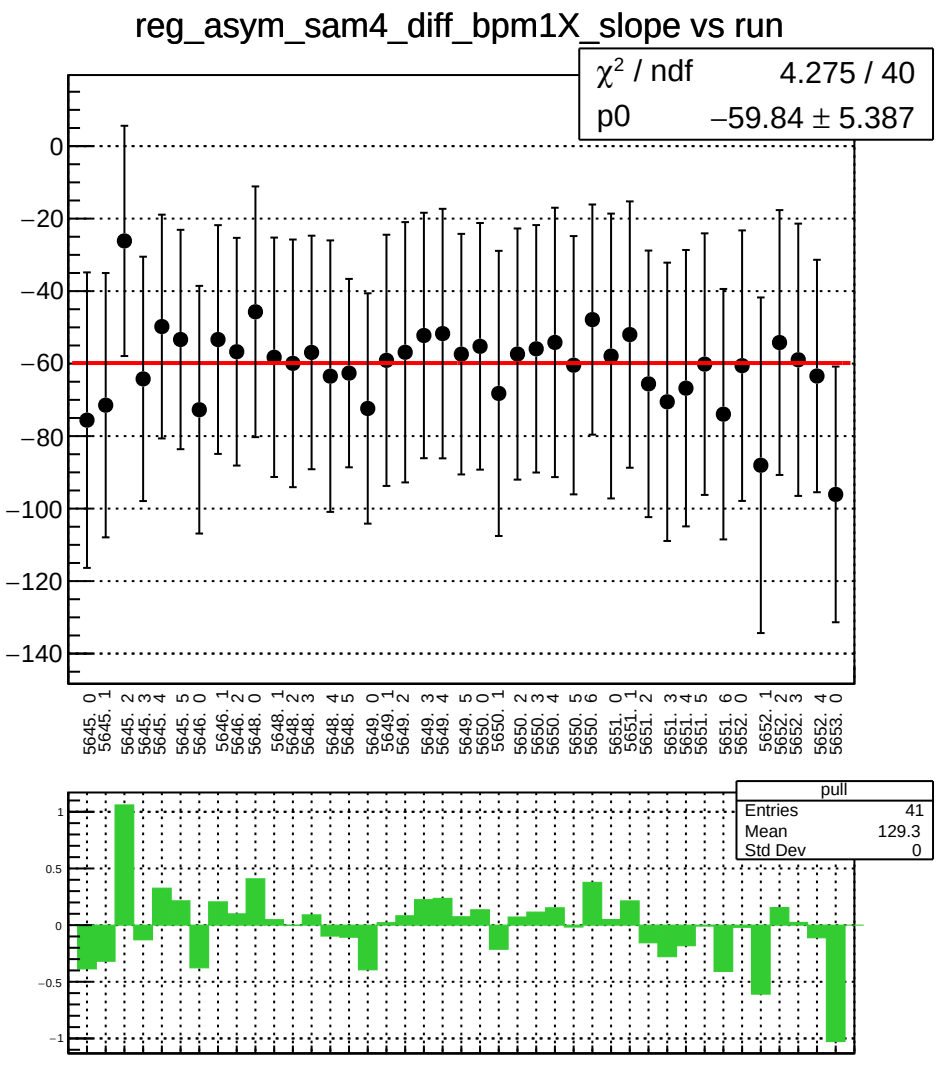

pull1D
Entries 41
Mean 0.003611
Std Dev 0.3799

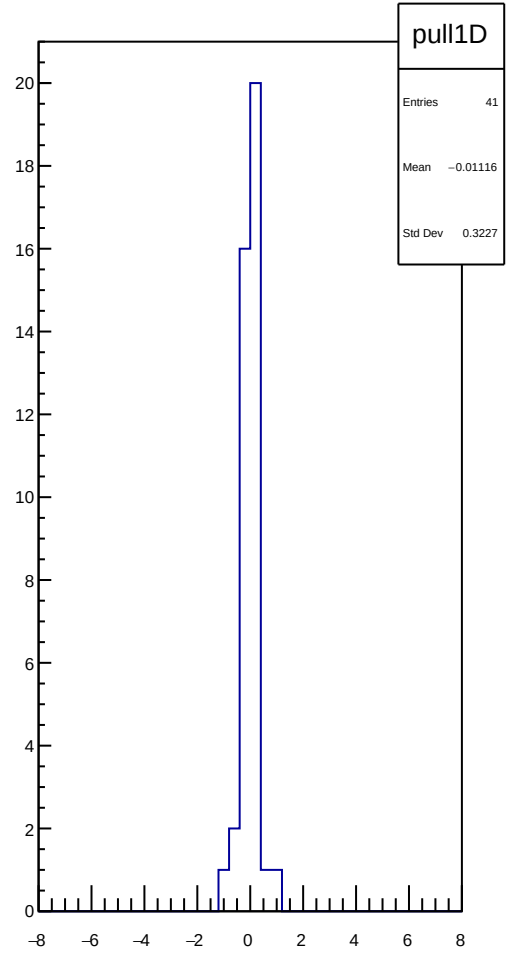

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.904 / 40
p0 31.21 ± 3.836
pull
Entries 41
Mean 50.41
Std Dev 0

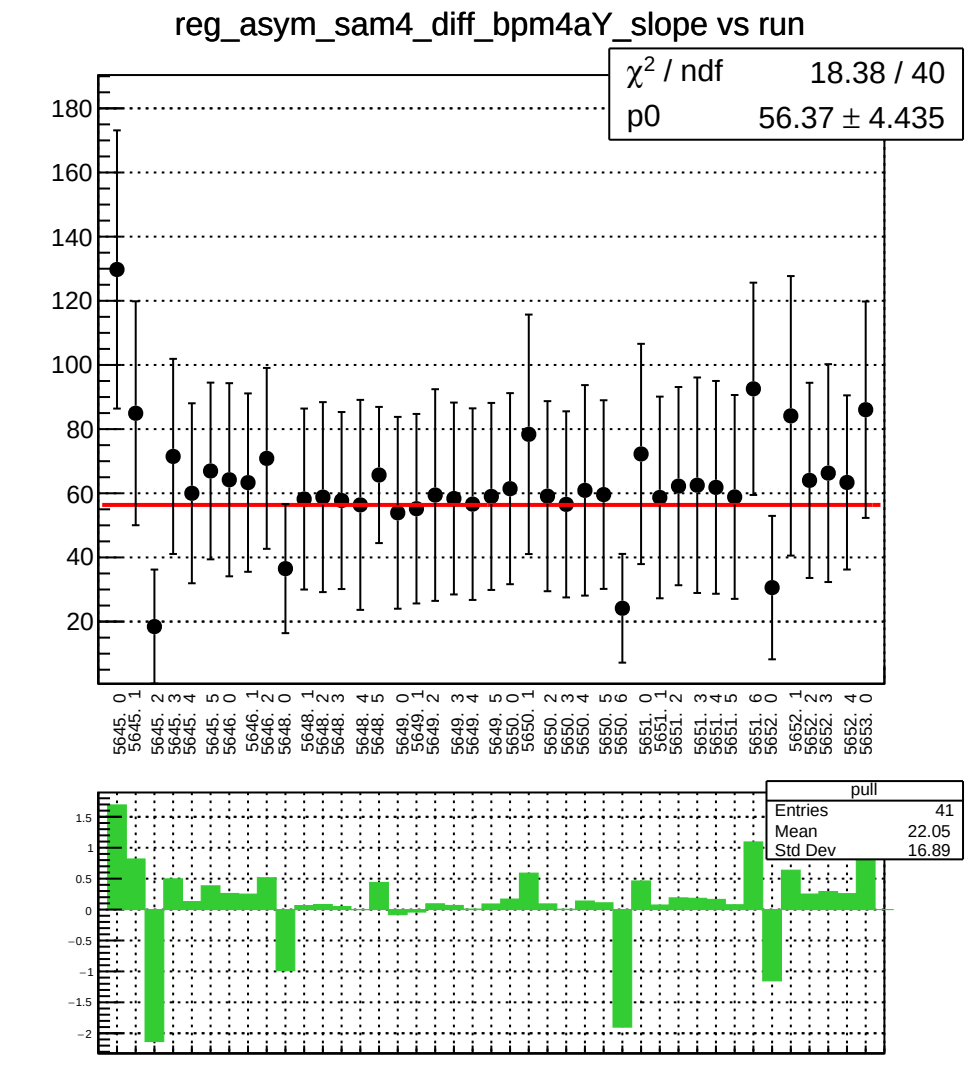

pull1D
Entries 41
Mean 0.0205
Std Dev 0.2654

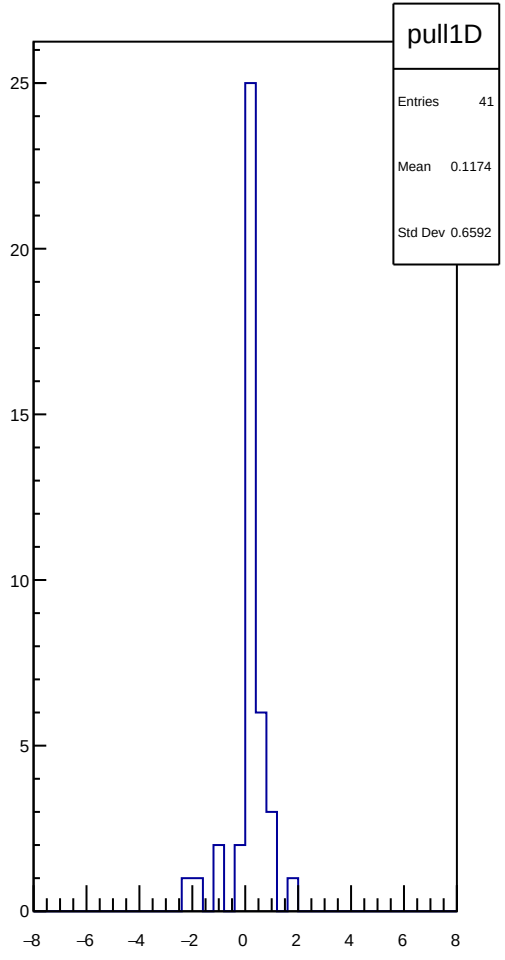

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.756 / 40
p0 −1.352 ± 0.1315
pull
Entries 41
Mean 97.34
Std Dev 0

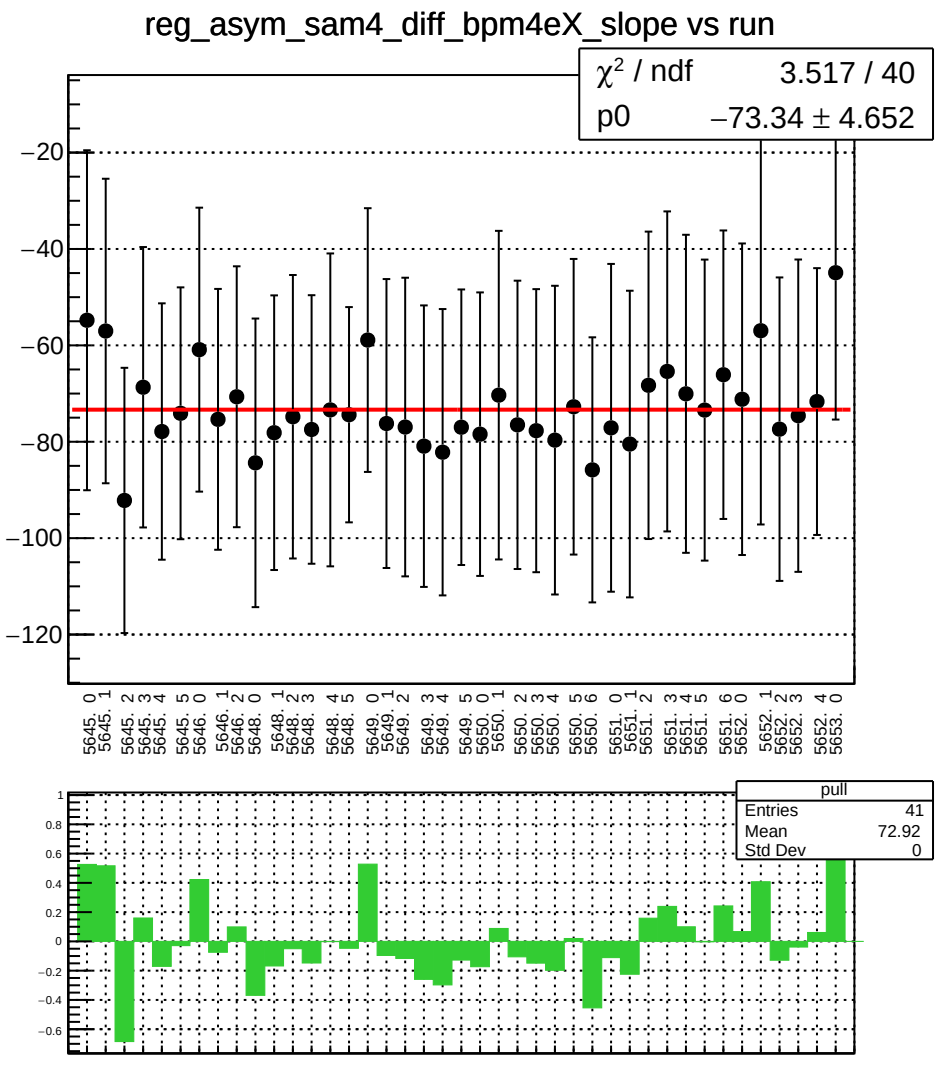

pull1D
Entries 41
Mean −0.01481
Std Dev 0.2589

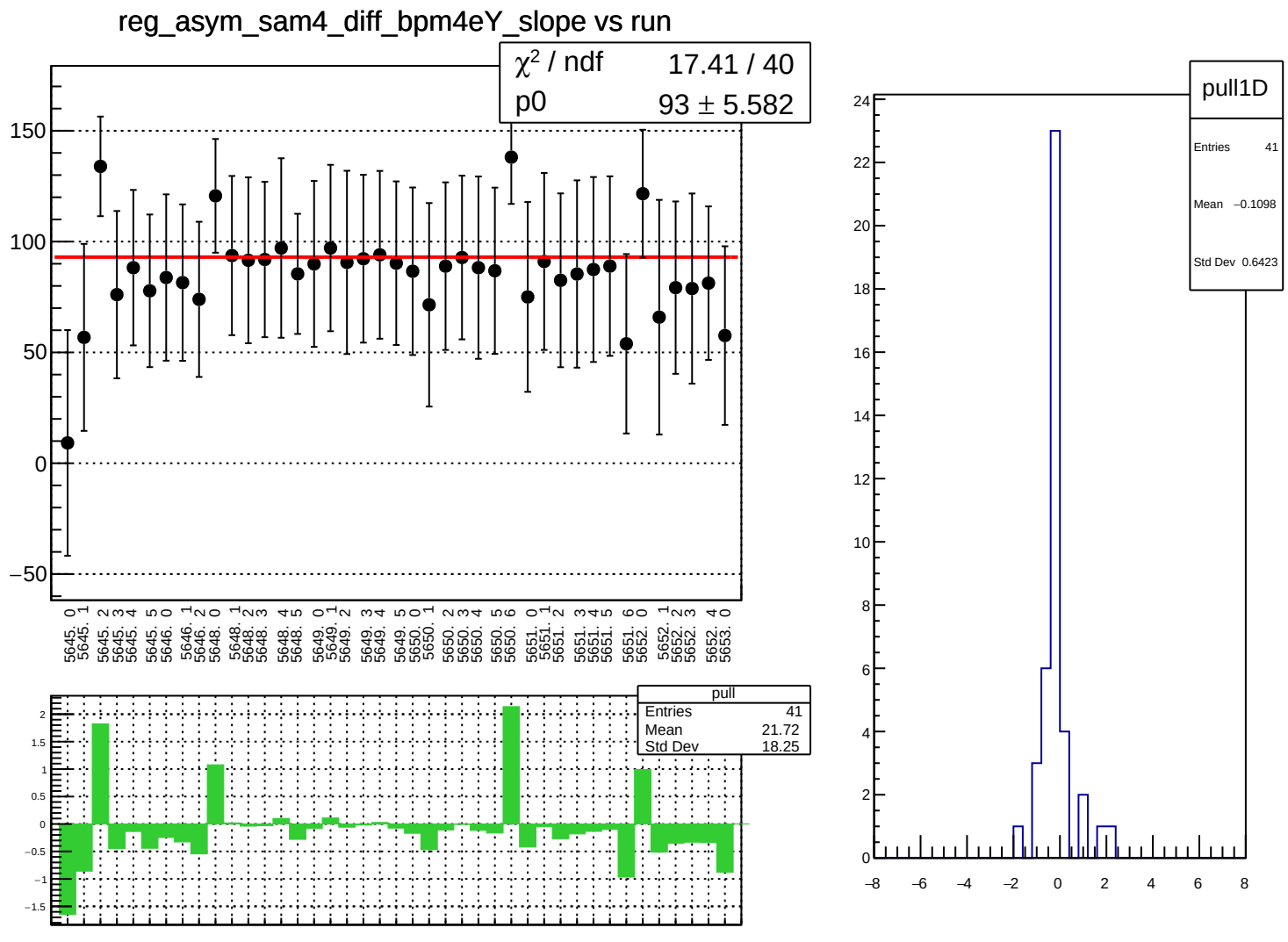

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.275 / 40
p0 −59.84 ± 5.387
pull
Entries 41
Mean 129.3
Std Dev 0

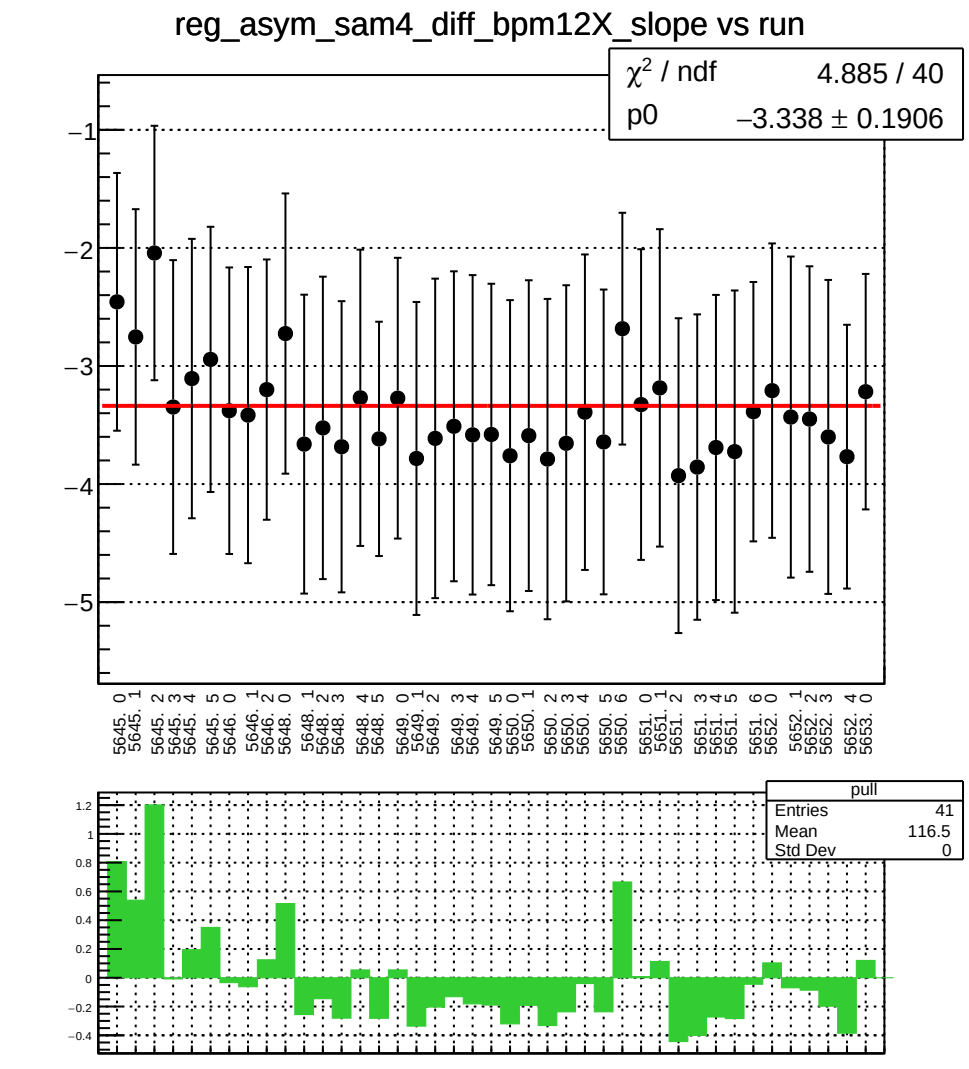

pull1D
Entries 41
Mean −0.01116
Std Dev 0.3227

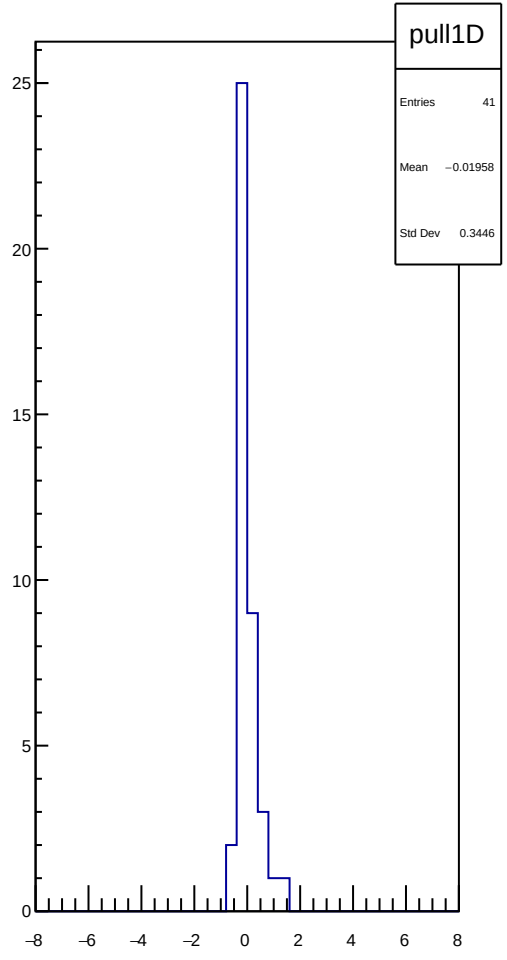

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 18.38 / 40
p0 56.37 ± 4.435
pull
Entries 41
Mean 22.05
Std Dev 16.89

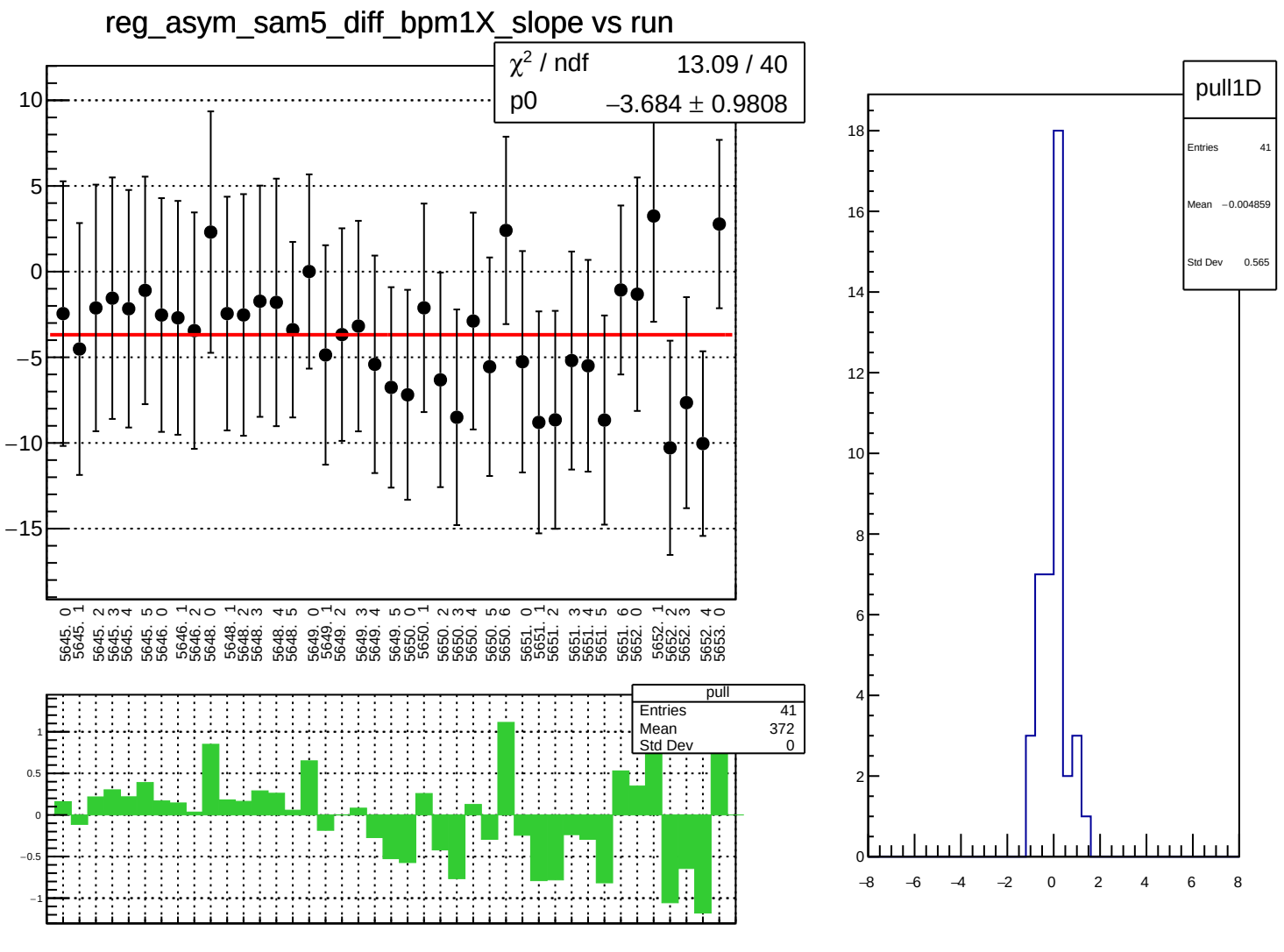

pull1D
Entries 41
Mean 0.1174
Std Dev 0.6592

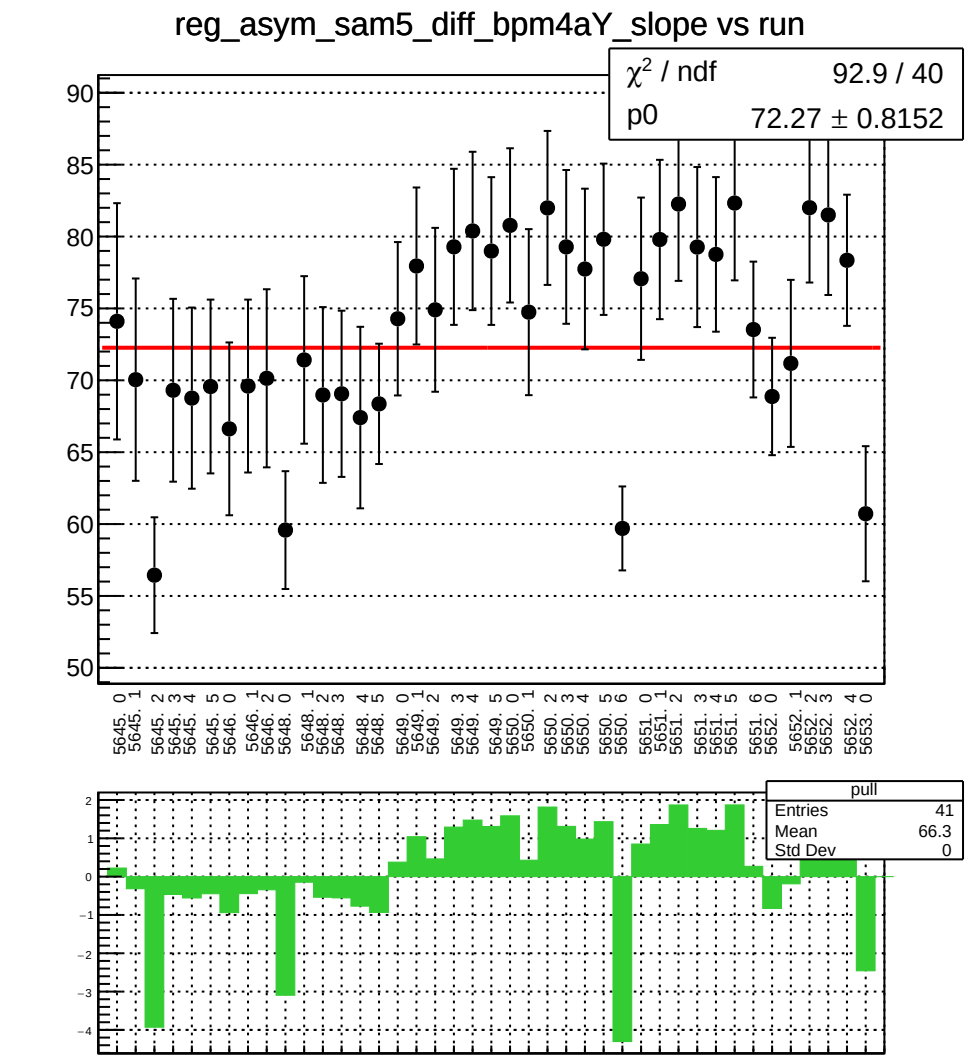

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 3.517 / 40
p0 −73.34 ± 4.652
−20
−40
−60
−80
−100
−120
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 72.92
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.008473
Std Dev 0.2928
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

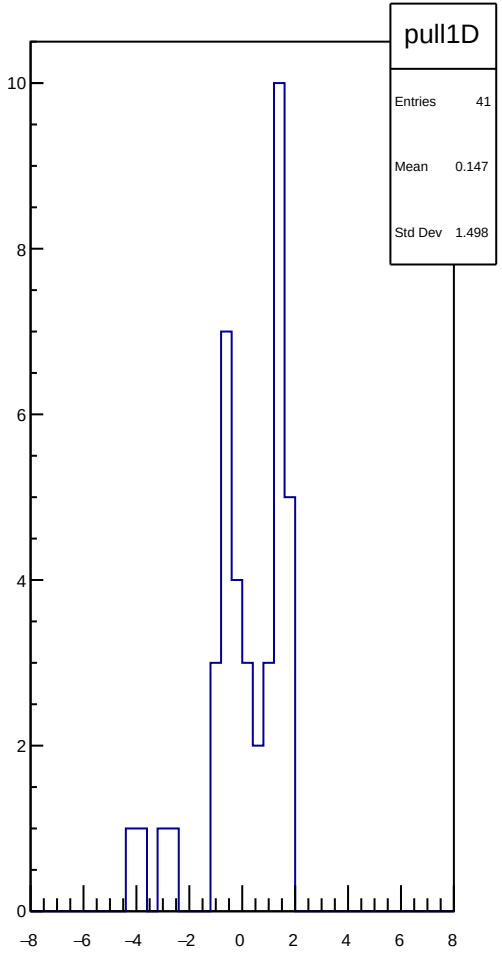

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 17.41 / 40
p0 93 ± 5.582
150
100
50
0
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 21.72
Std Dev 18.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.1098
Std Dev 0.6423
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

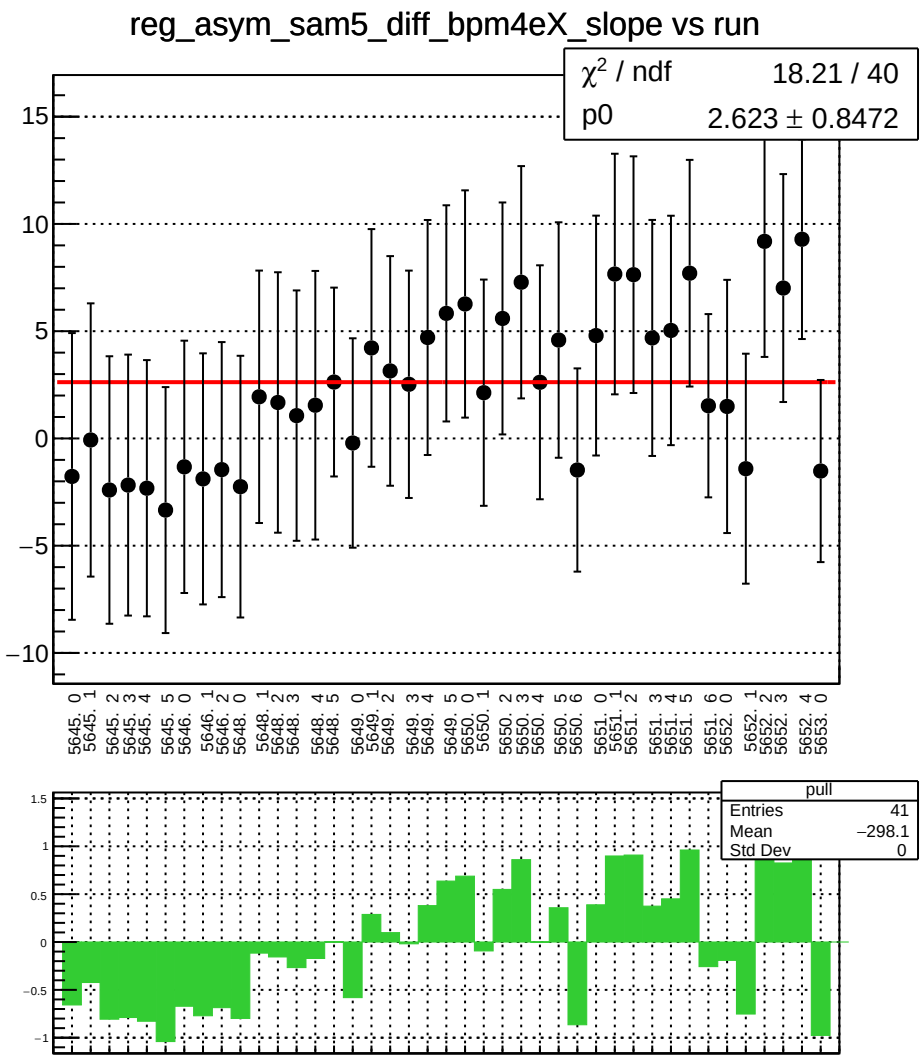

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 4.885 / 40
p0 −3.338 ± 0.1906
pull
Entries 41
Mean 116.5
Std Dev 0

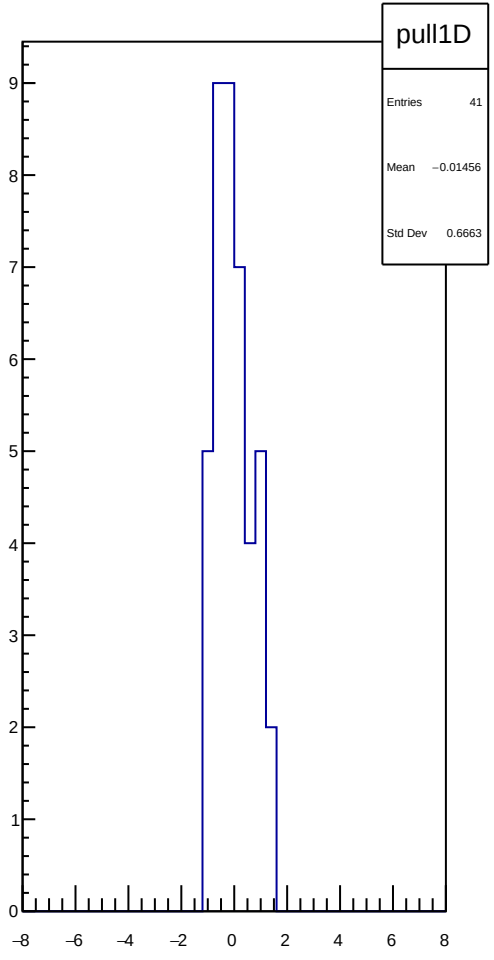

pull1D
Entries 41
Mean −0.01958
Std Dev 0.3446

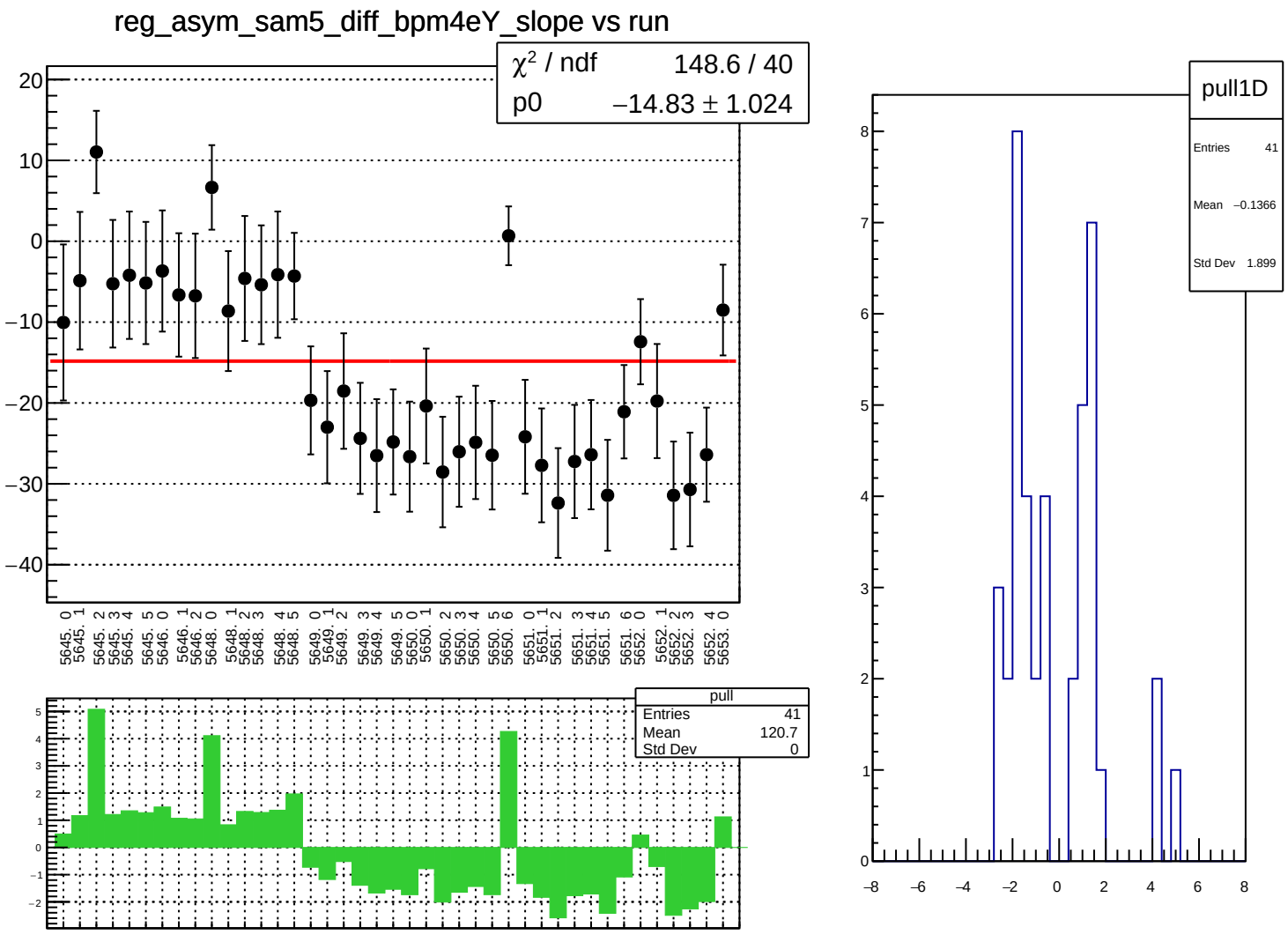

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 13.09 / 40
p0 −3.684 ± 0.9808
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 372
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.004859
Std Dev 0.565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

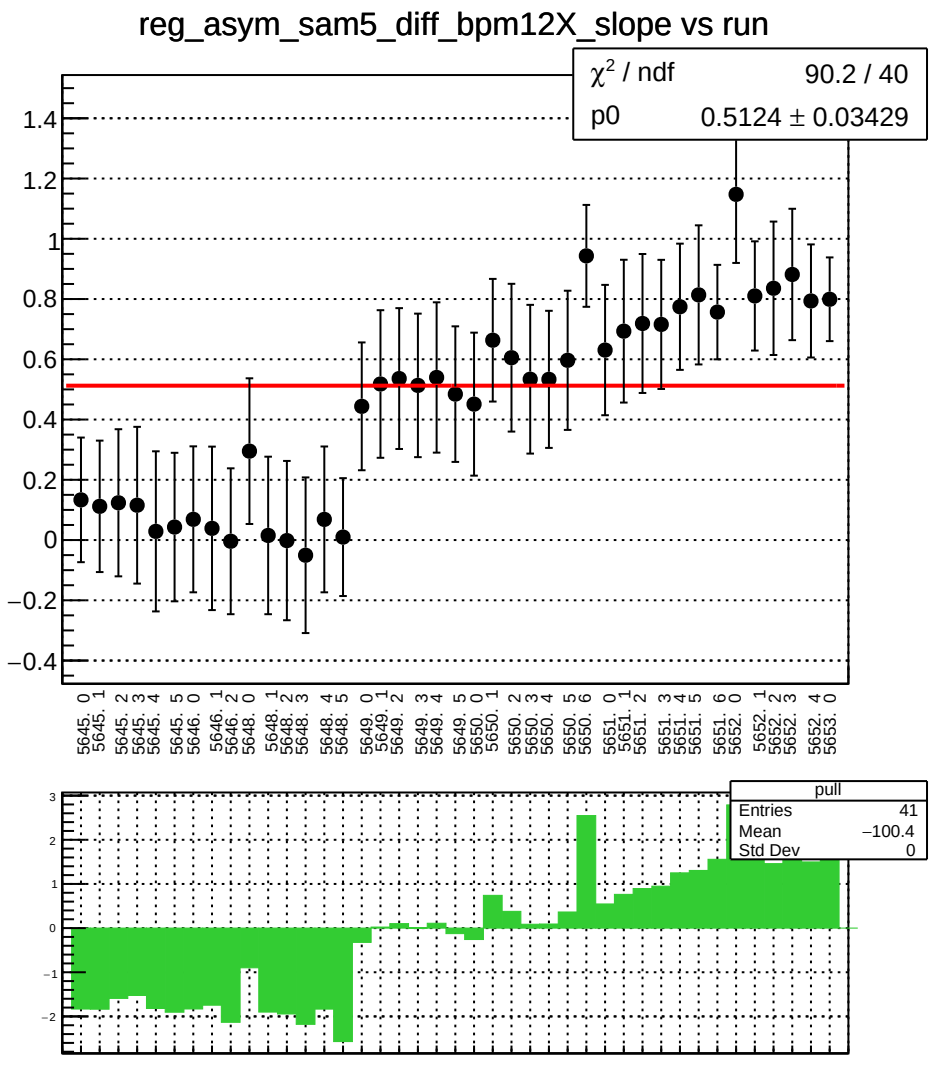

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 92.9 / 40
p0 72.27 ± 0.8152
pull
Entries 41
Mean 66.3
Std Dev 0

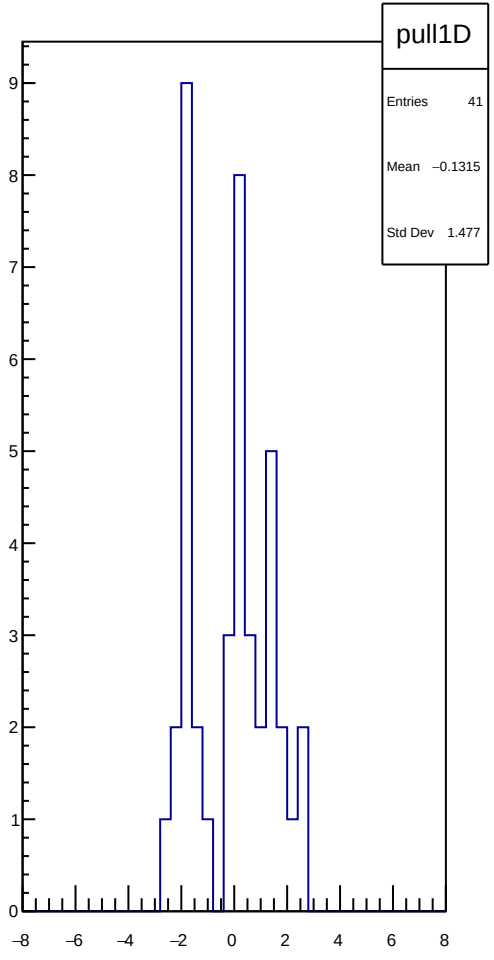

pull1D
Entries 41
Mean 0.147
Std Dev 1.498

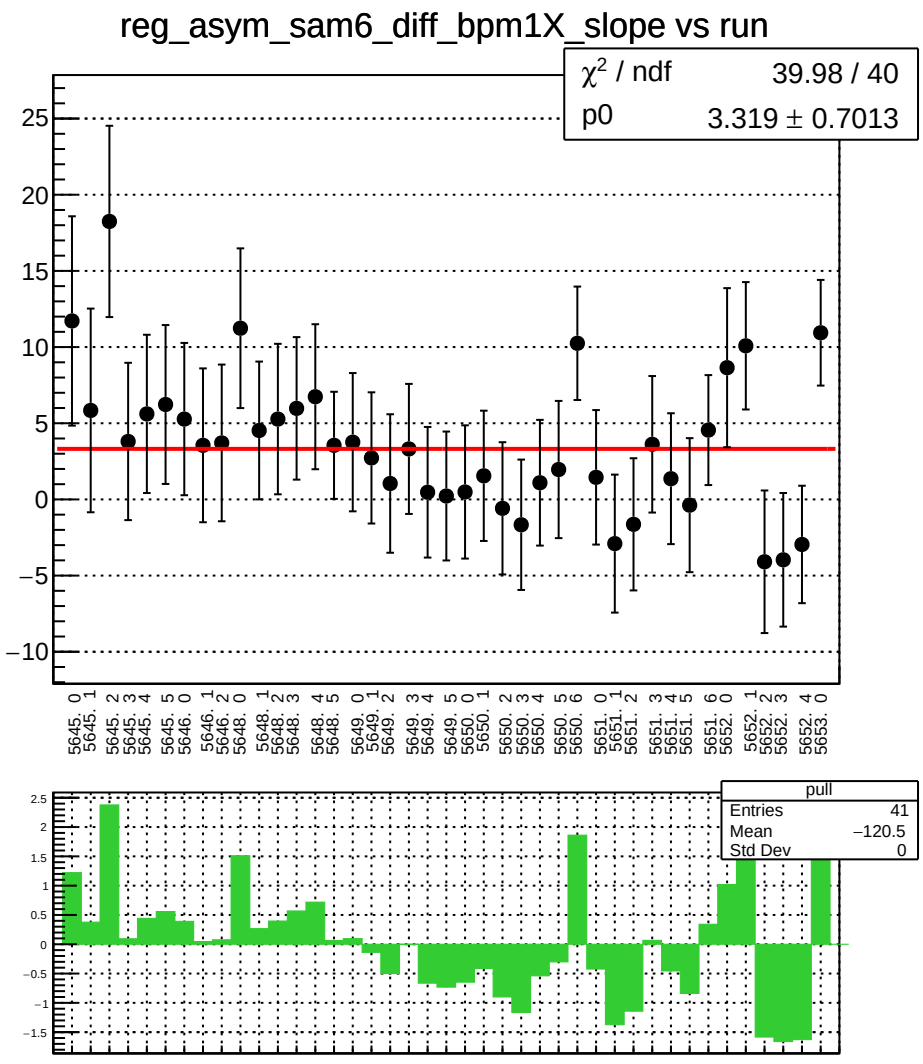

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 18.21 / 40
p0 2.623 ± 0.8472
pull
Entries 41
Mean −298.1
Std Dev 0

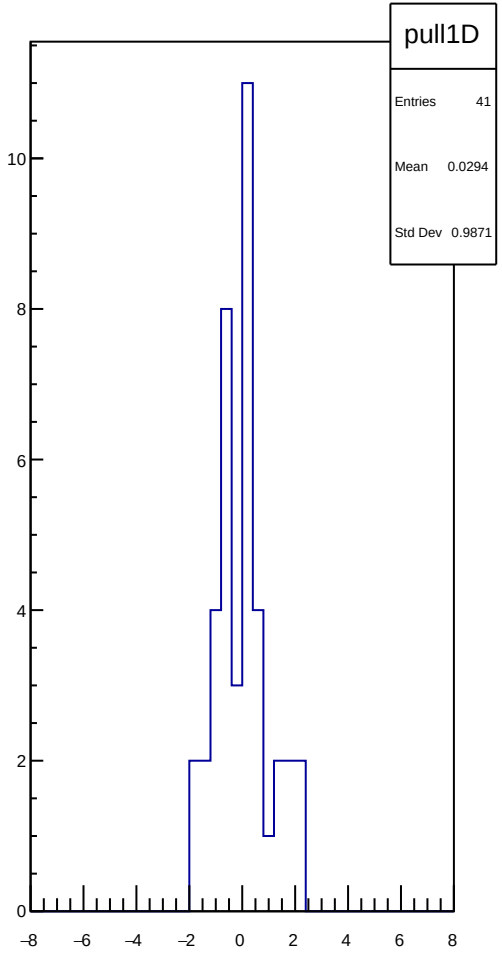

pull1D
Entries 41
Mean −0.01456
Std Dev 0.6663

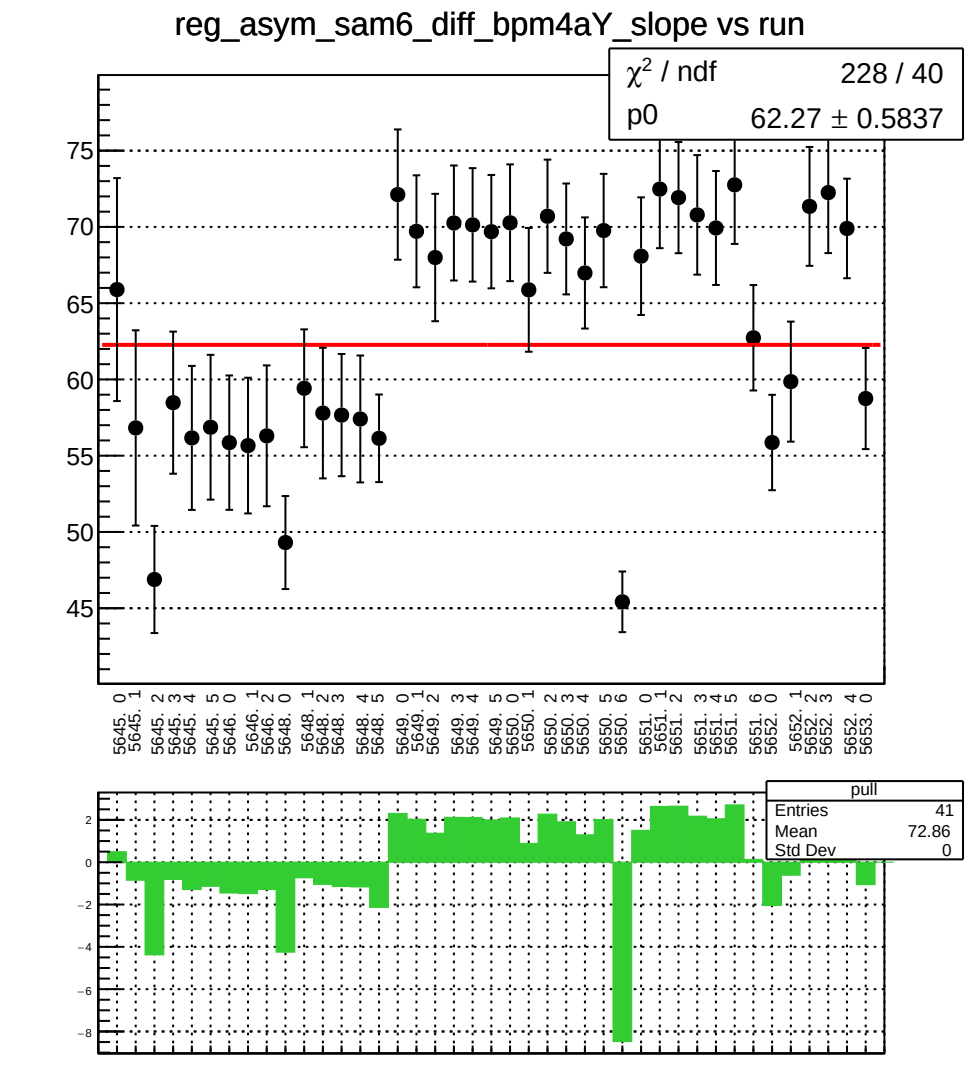

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 148.6 / 40
p0 −14.83 ± 1.024
pull
Entries 41
Mean 120.7
Std Dev 0
pull1D
Entries 41
Mean −0.1366
Std Dev 1.899

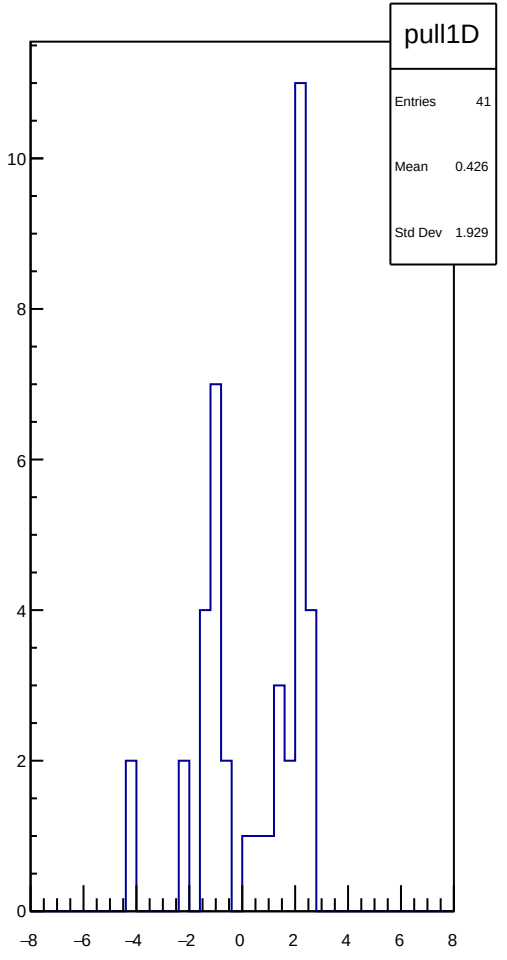

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 90.2 / 40
p0 0.5124 ± 0.03429
pull
Entries 41
Mean −100.4
Std Dev 0

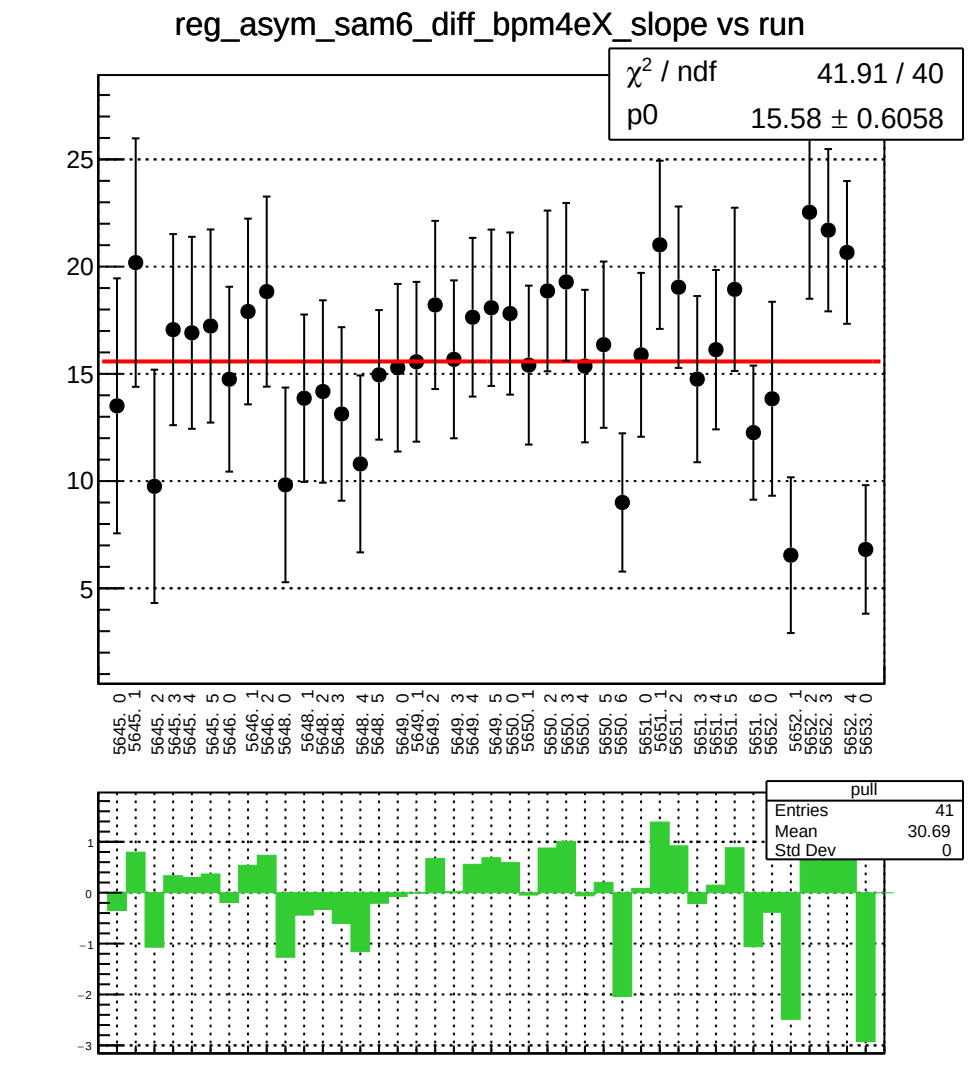

pull1D
Entries 41
Mean −0.1315
Std Dev 1.477

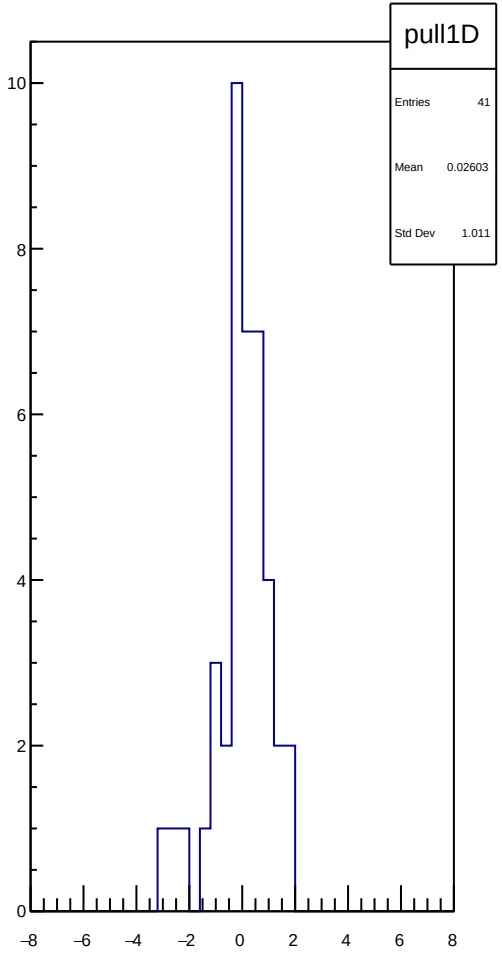

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 39.98 / 40
p0 3.319 ± 0.7013
pull
Entries 41
Mean −120.5
Std Dev 0

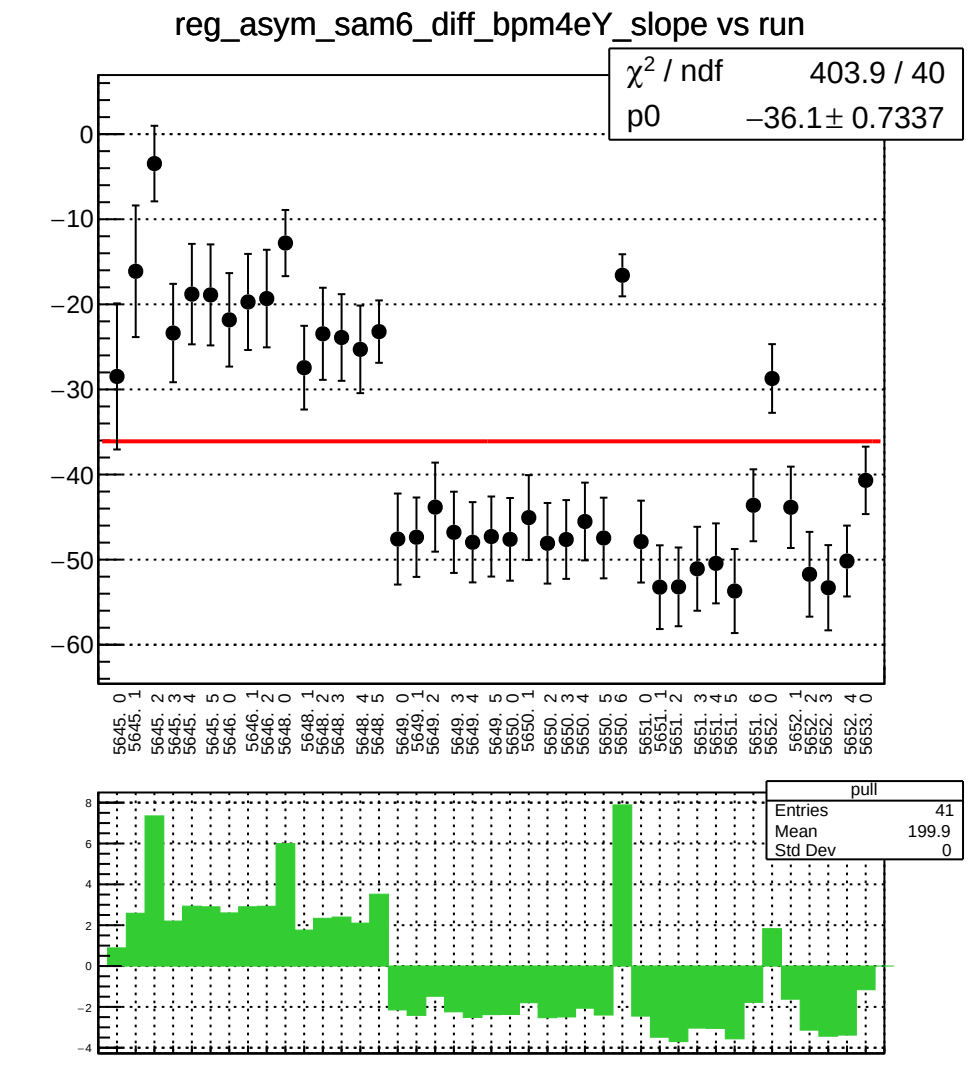

pull1D
Entries 41
Mean 0.0294
Std Dev 0.9871

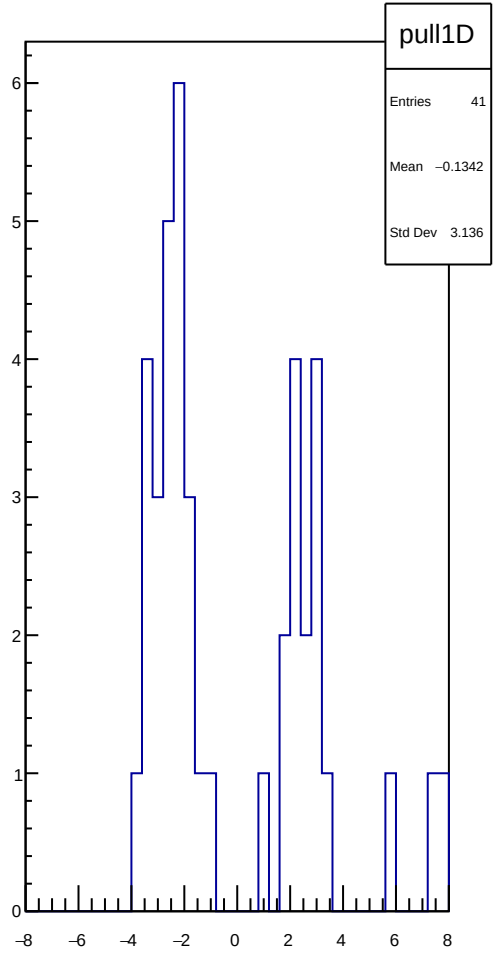

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 228 / 40
p0 62.27 ± 0.5837
75
70
65
60
55
50
45
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 72.86
Std Dev 0
2
0
−2
−4
−6
−8

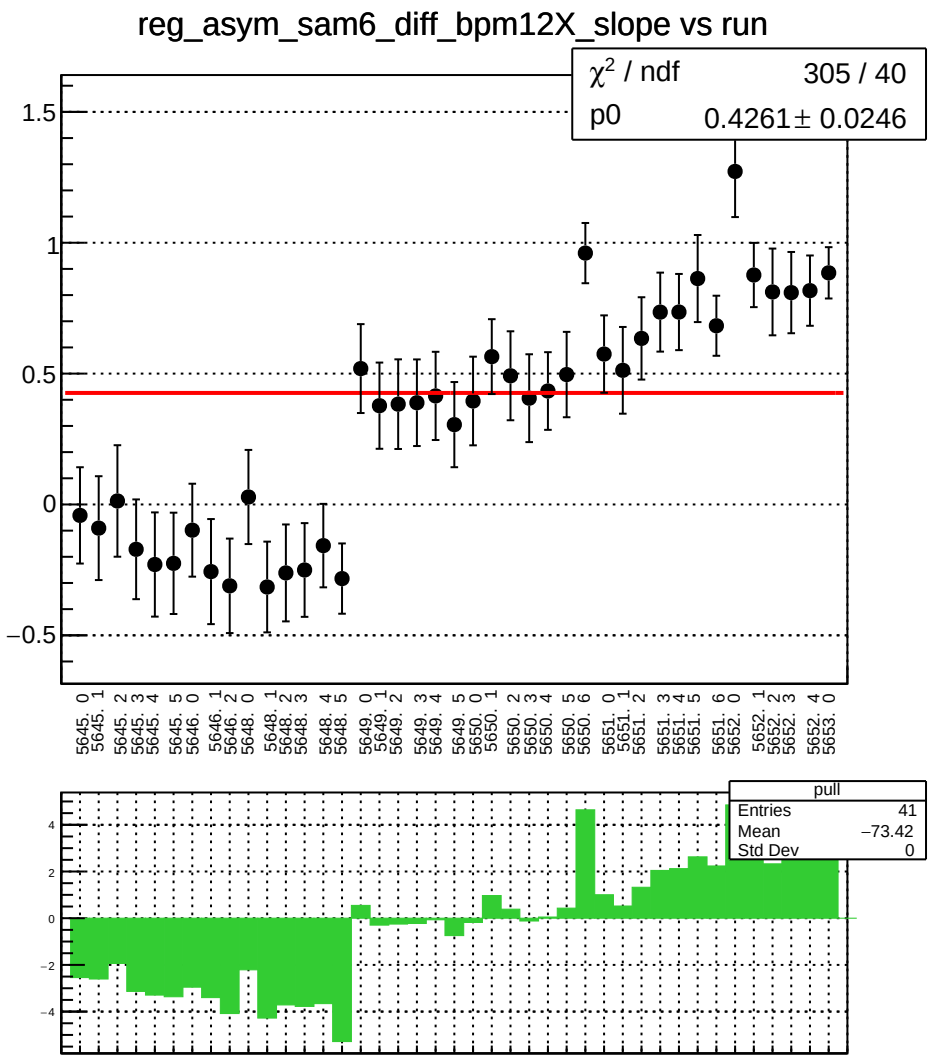

pull1D
Entries 41
Mean 0.426
Std Dev 1.929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

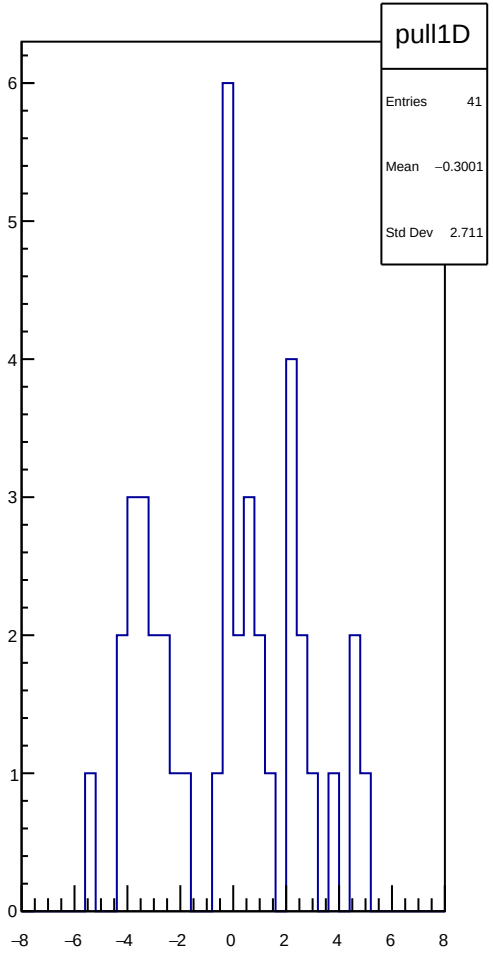

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 41.91 / 40
p0 15.58 ± 0.6058
pull
Entries 41
Mean 30.69
Std Dev 0

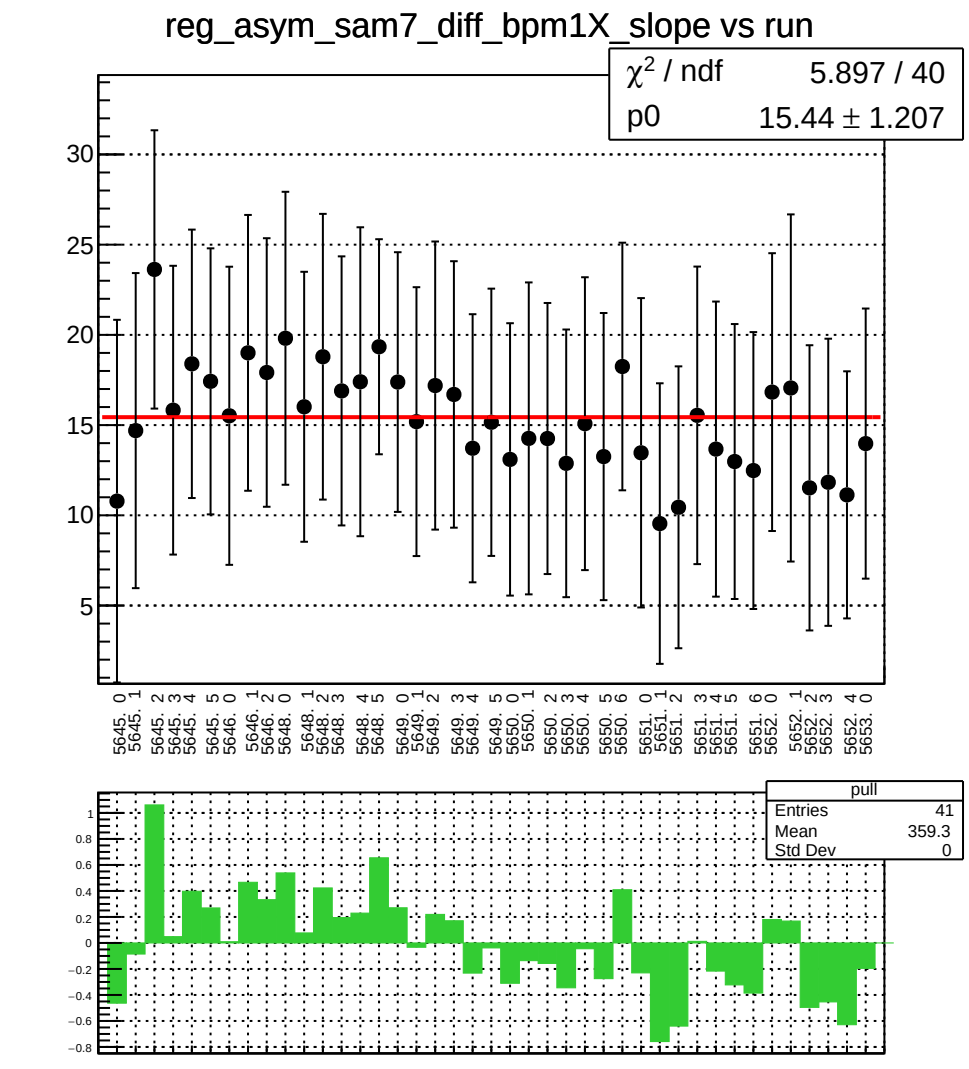

pull1D
Entries 41
Mean 0.02603
Std Dev 1.011

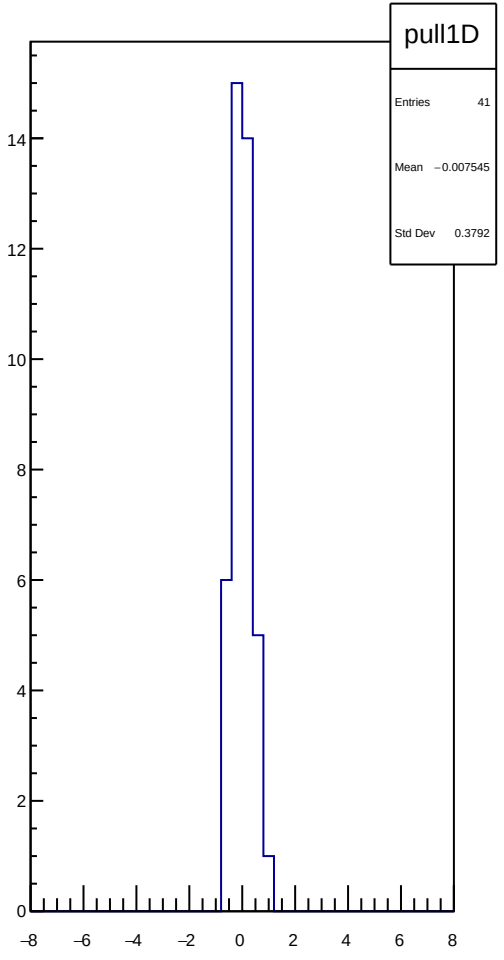

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 403.9 / 40
p0 −36.1 ± 0.7337
pull
Entries 41
Mean 199.9
Std Dev 0

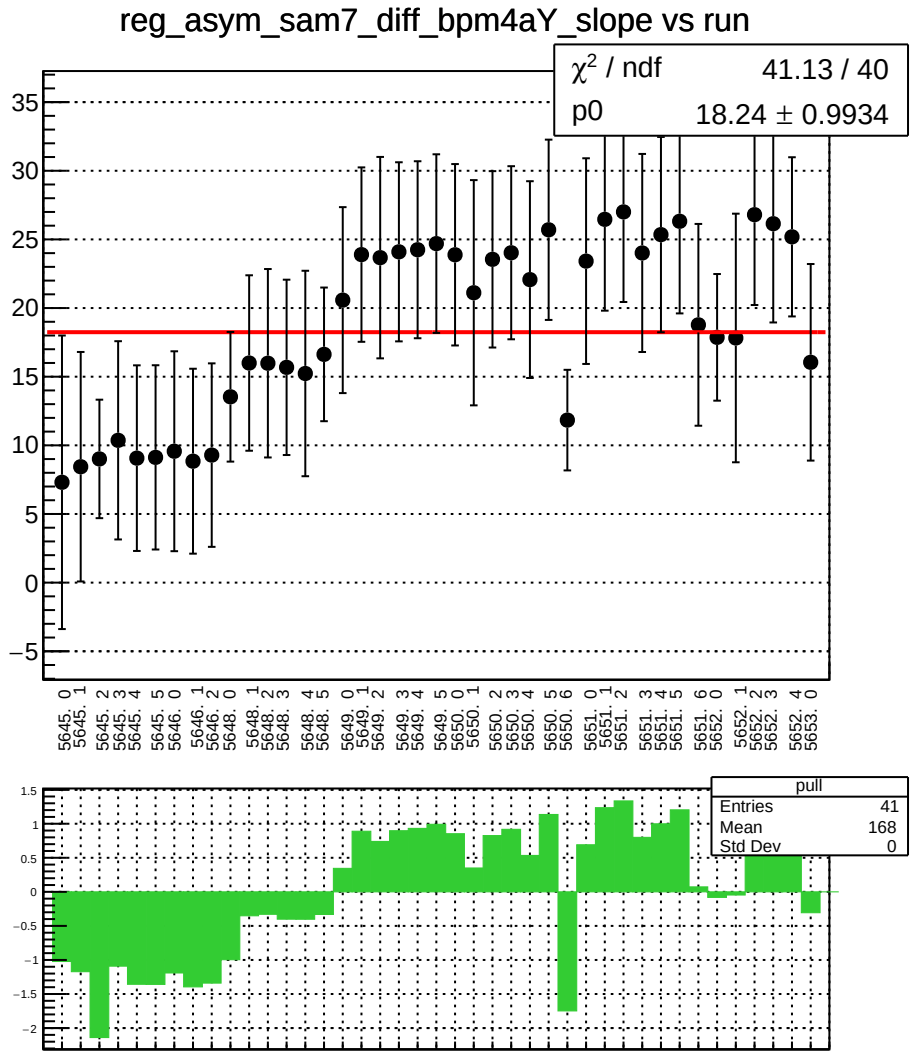

pull1D
Entries 41
Mean −0.1342
Std Dev 3.136

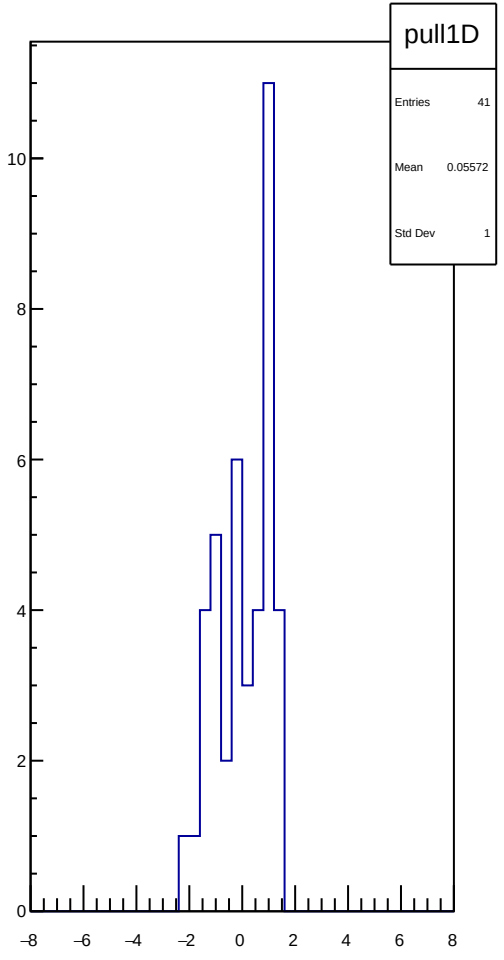

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 305 / 40
p0 0.4261± 0.0246
1.5
1
0.5
0
−0.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −73.42
Std Dev 0
4
2
0
−2
−4

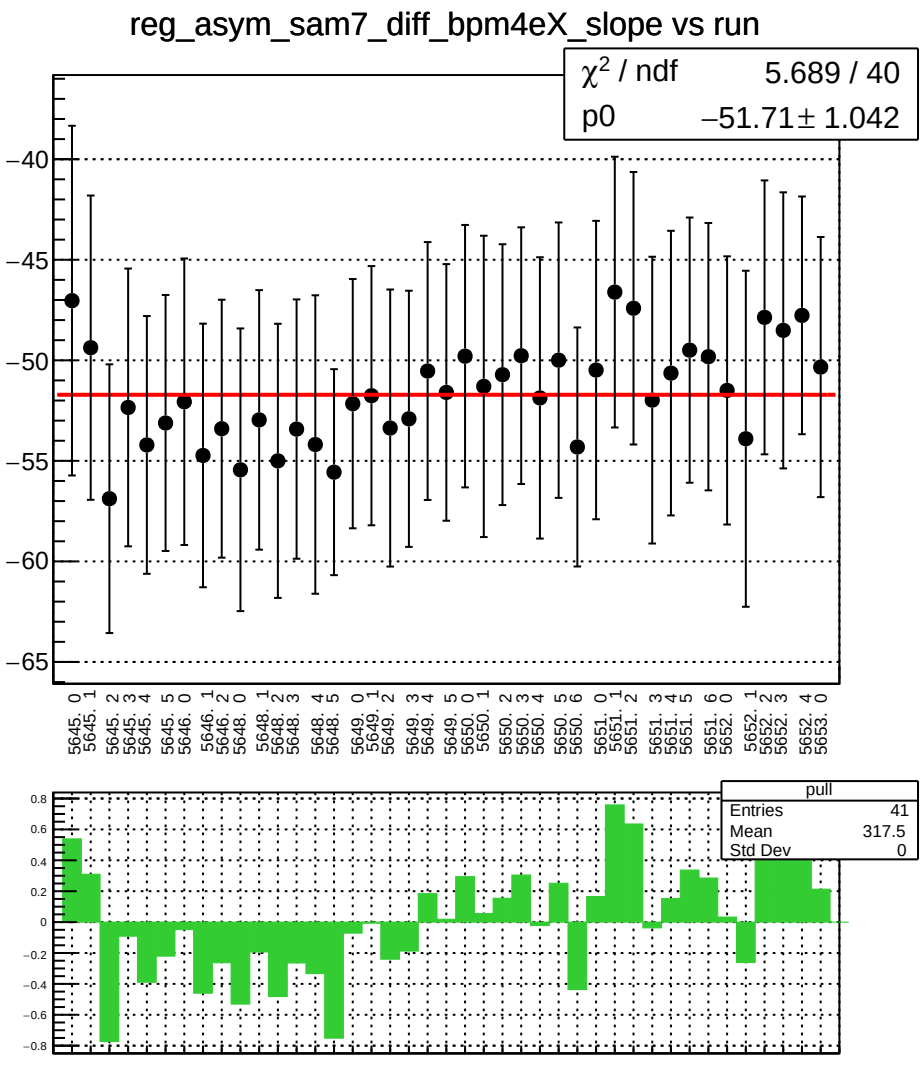

pull1D
Entries 41
Mean −0.3001
Std Dev 2.711
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

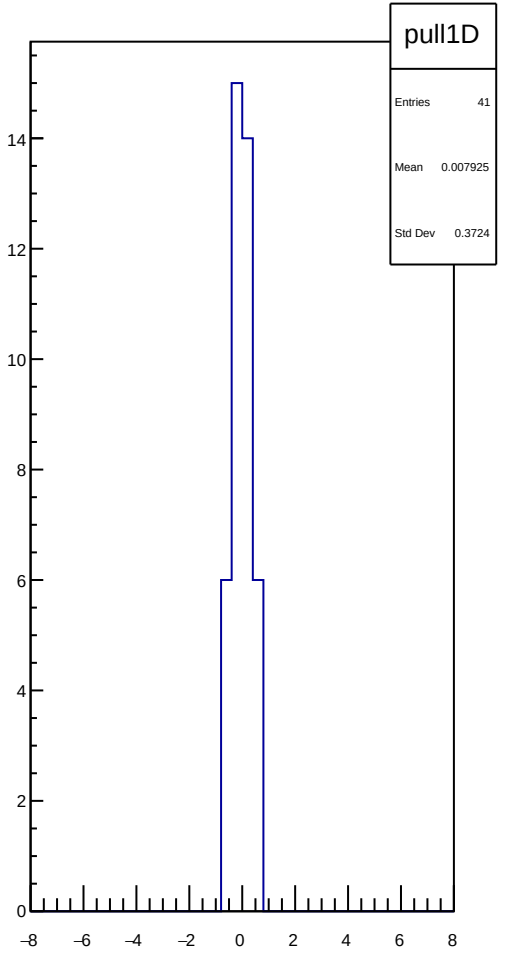

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 5.897 / 40
p0 15.44 ± 1.207
pull
Entries 41
Mean 359.3
Std Dev 0

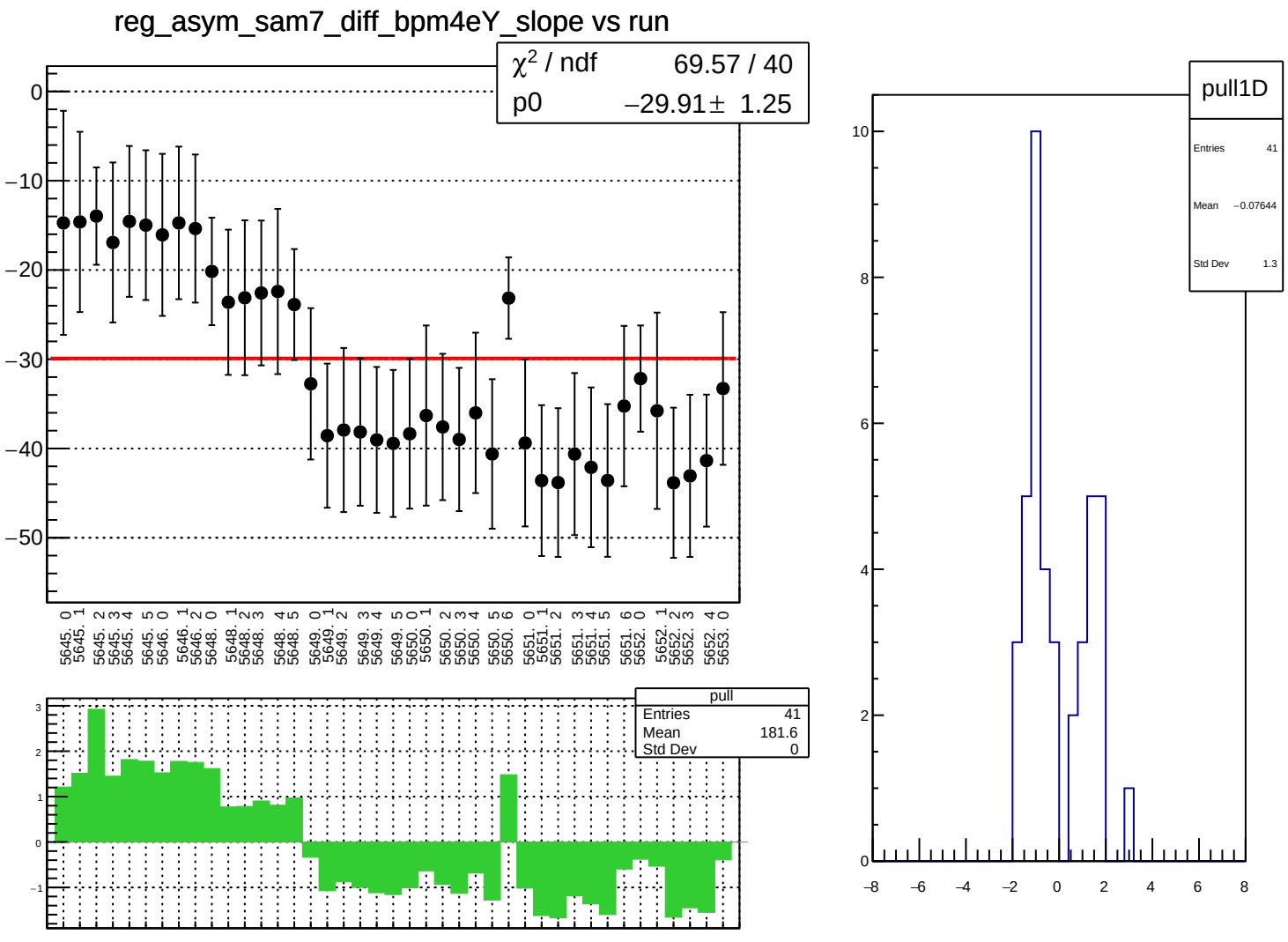

pull1D
Entries 41
Mean −0.007545
Std Dev 0.3792

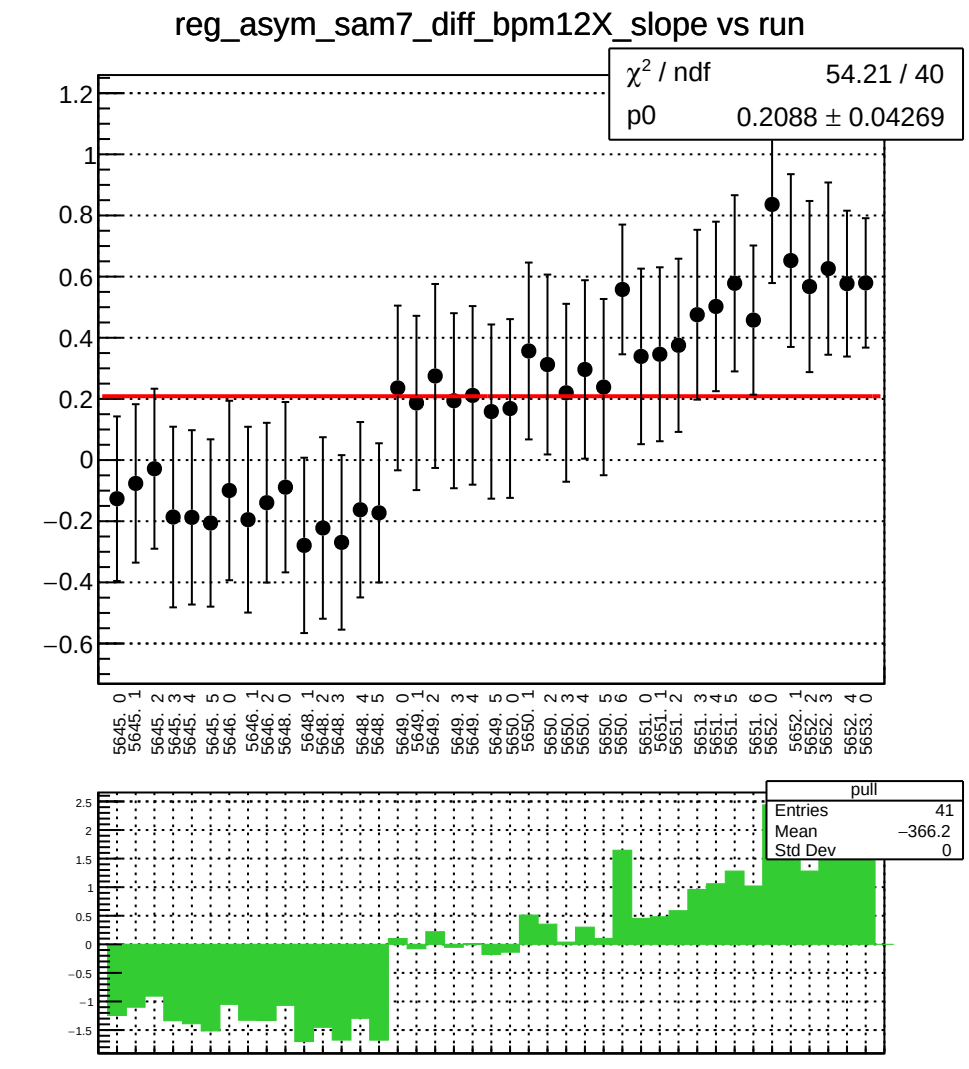

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 41.13 / 40
p0 18.24 ± 0.9934
pull
Entries 41
Mean 168
Std Dev 0

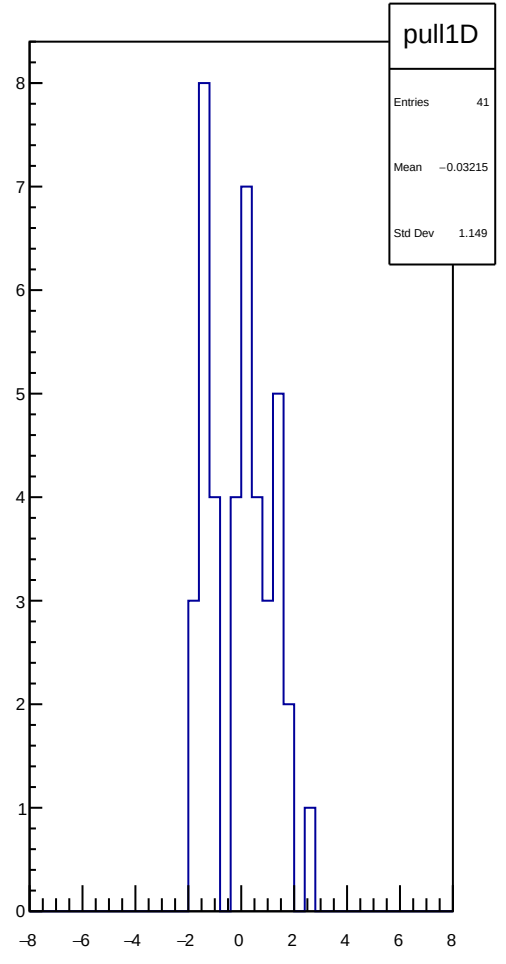

pull1D
Entries 41
Mean 0.05572
Std Dev 1

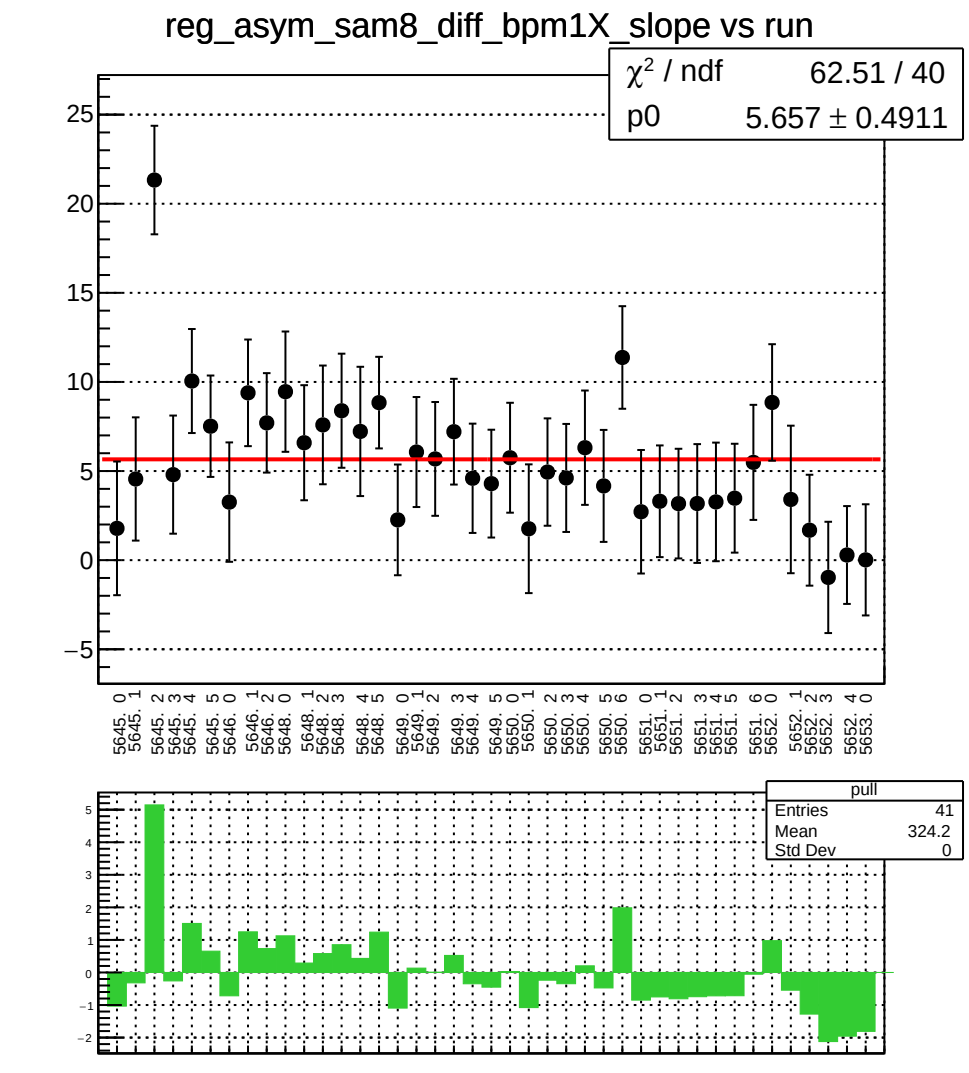

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 5.689 / 40
p0 −51.71± 1.042
−40
−45
−50
−55
−60
−65
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 317.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

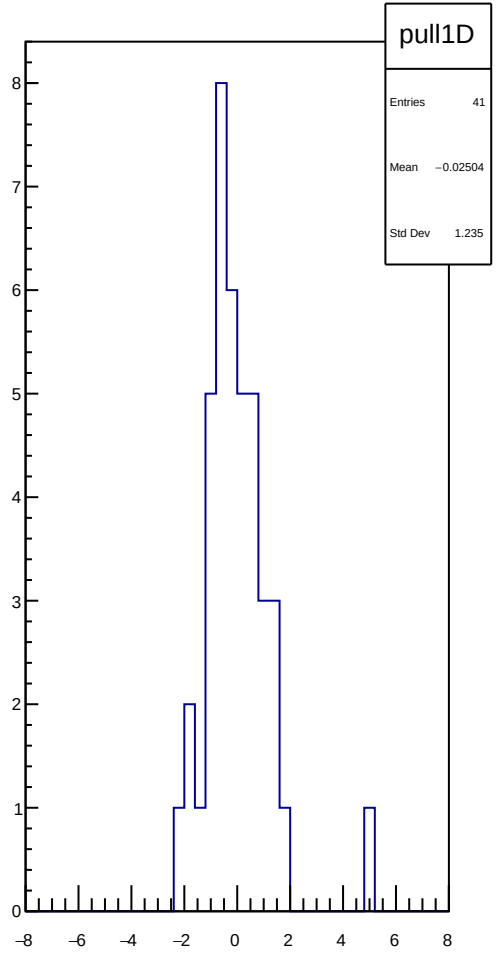

pull1D
Entries 41
Mean 0.007925
Std Dev 0.3724
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

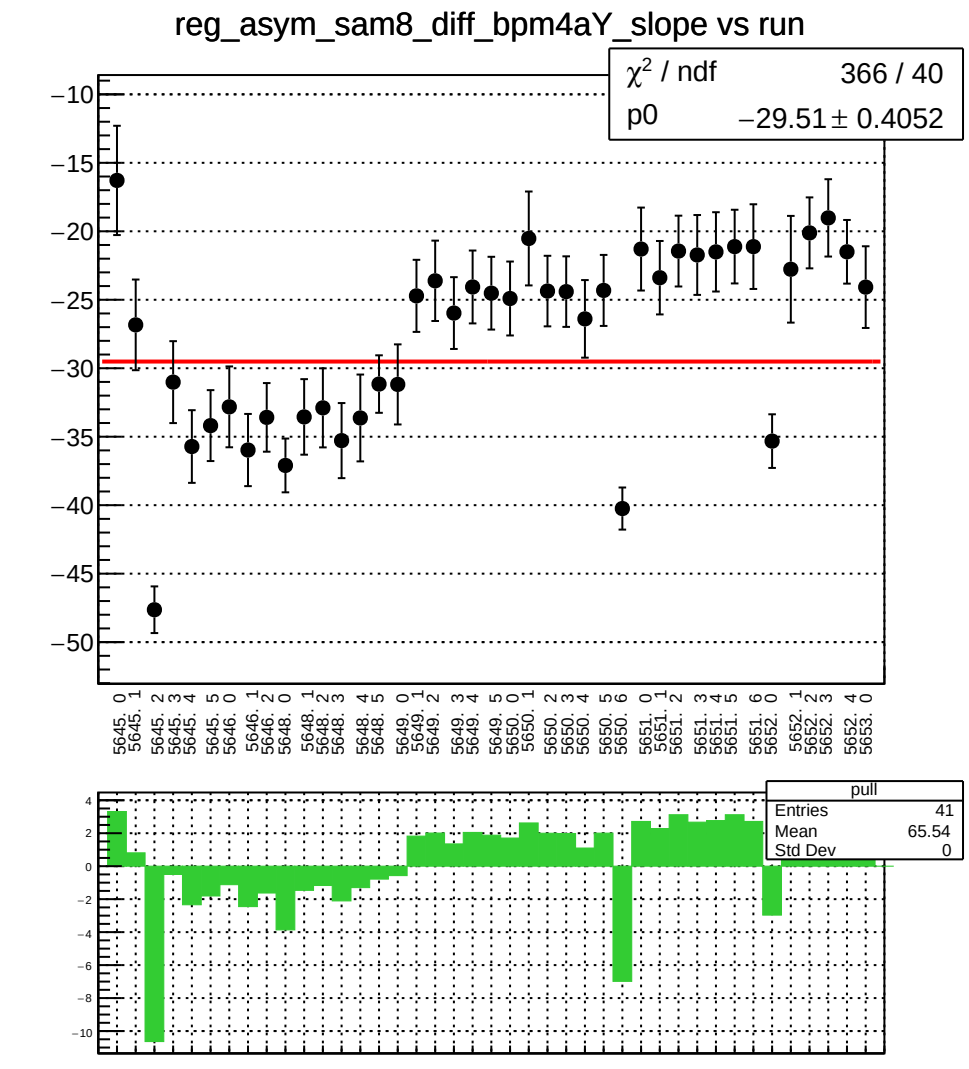

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 69.57 / 40
p0 −29.91 ± 1.25
0
−10
−20
−30
−40
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 181.6
Std Dev 0
3
2
1
0
−1
pull1D
Entries 41
Mean −0.07644
Std Dev 1.3
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

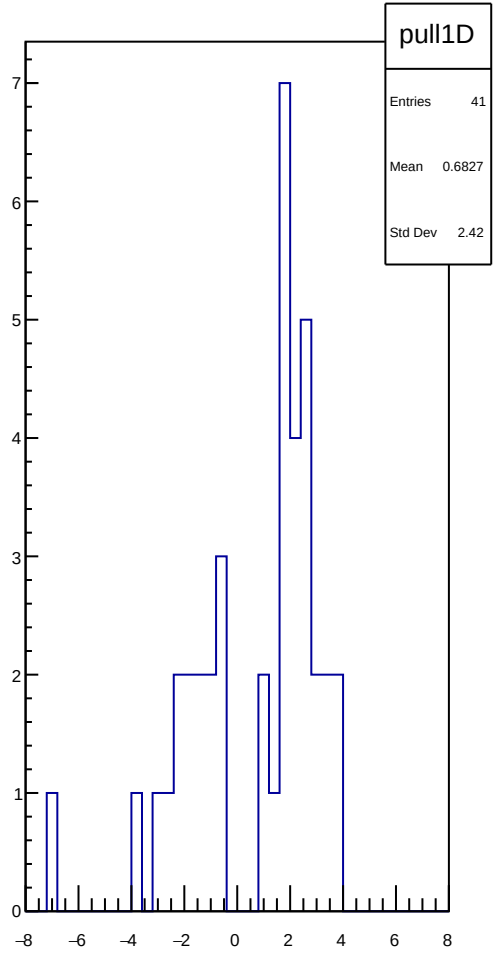

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 54.21 / 40
p0 0.2088 ± 0.04269
pull
Entries 41
Mean −366.2
Std Dev 0

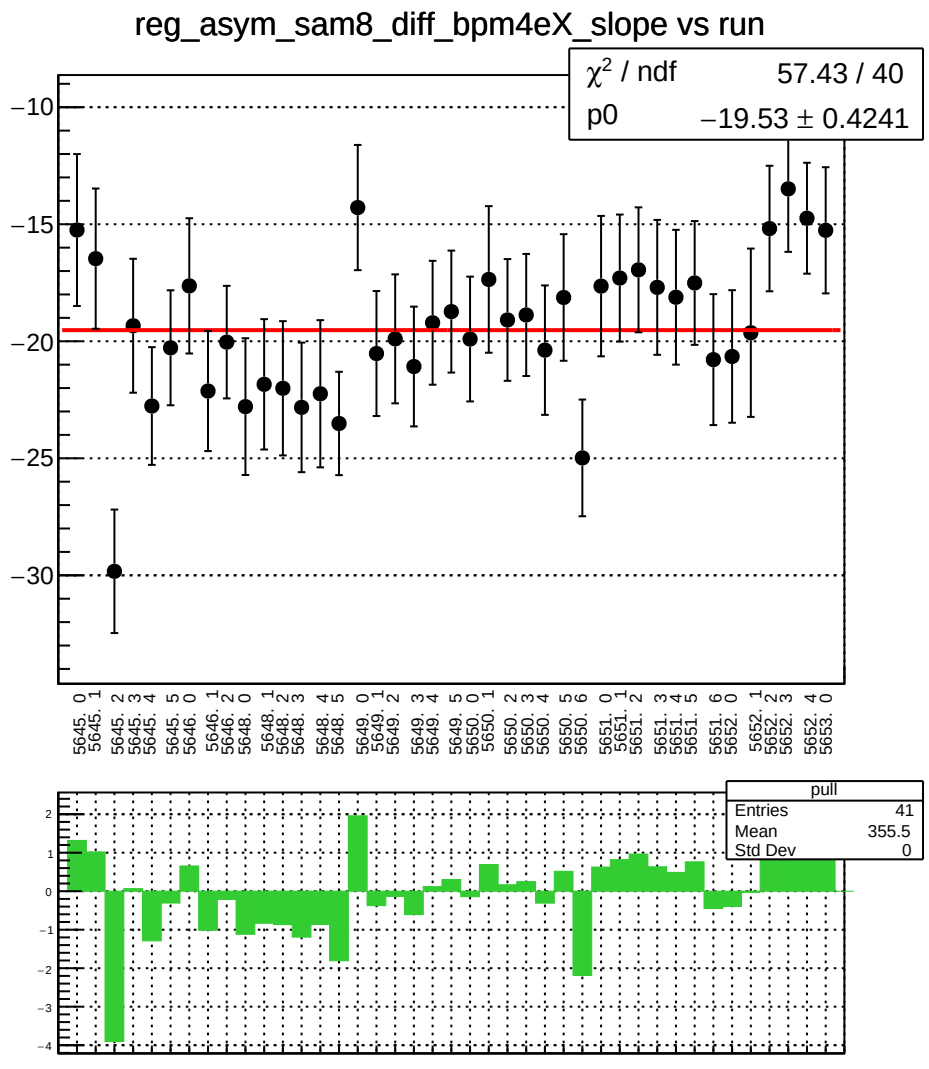

pull1D
Entries 41
Mean −0.03215
Std Dev 1.149

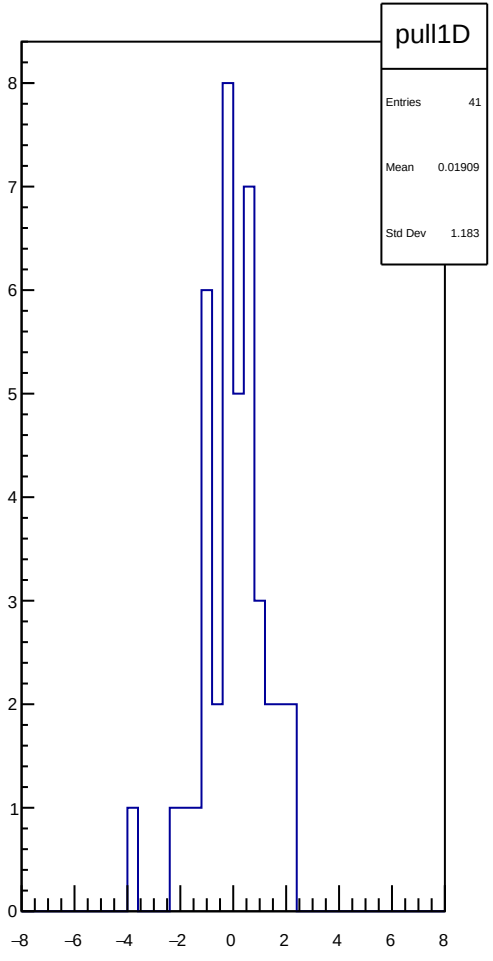

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 62.51 / 40
p0 5.657 ± 0.4911
pull
Entries 41
Mean 324.2
Std Dev 0

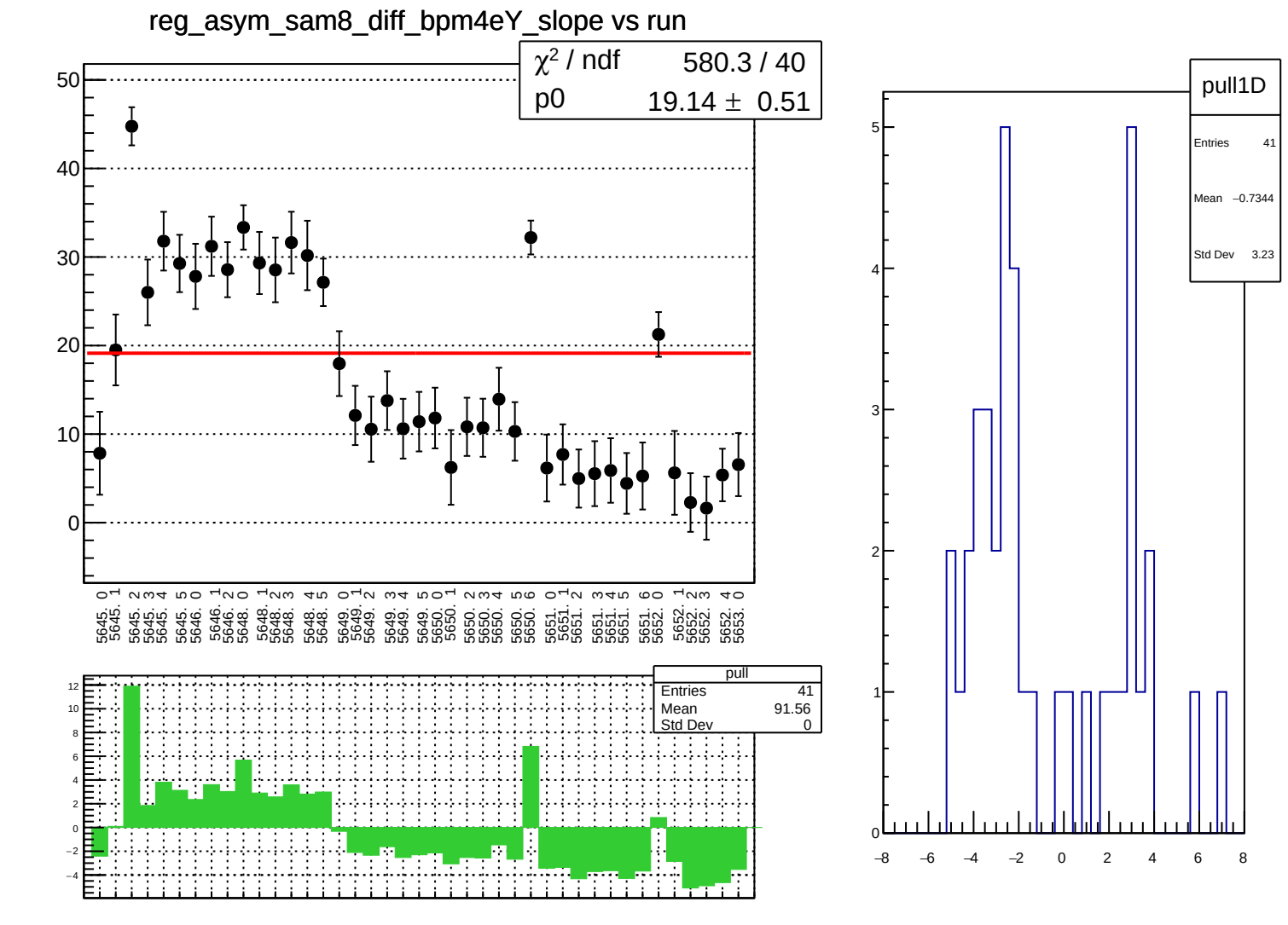

pull1D
Entries 41
Mean −0.02504
Std Dev 1.235

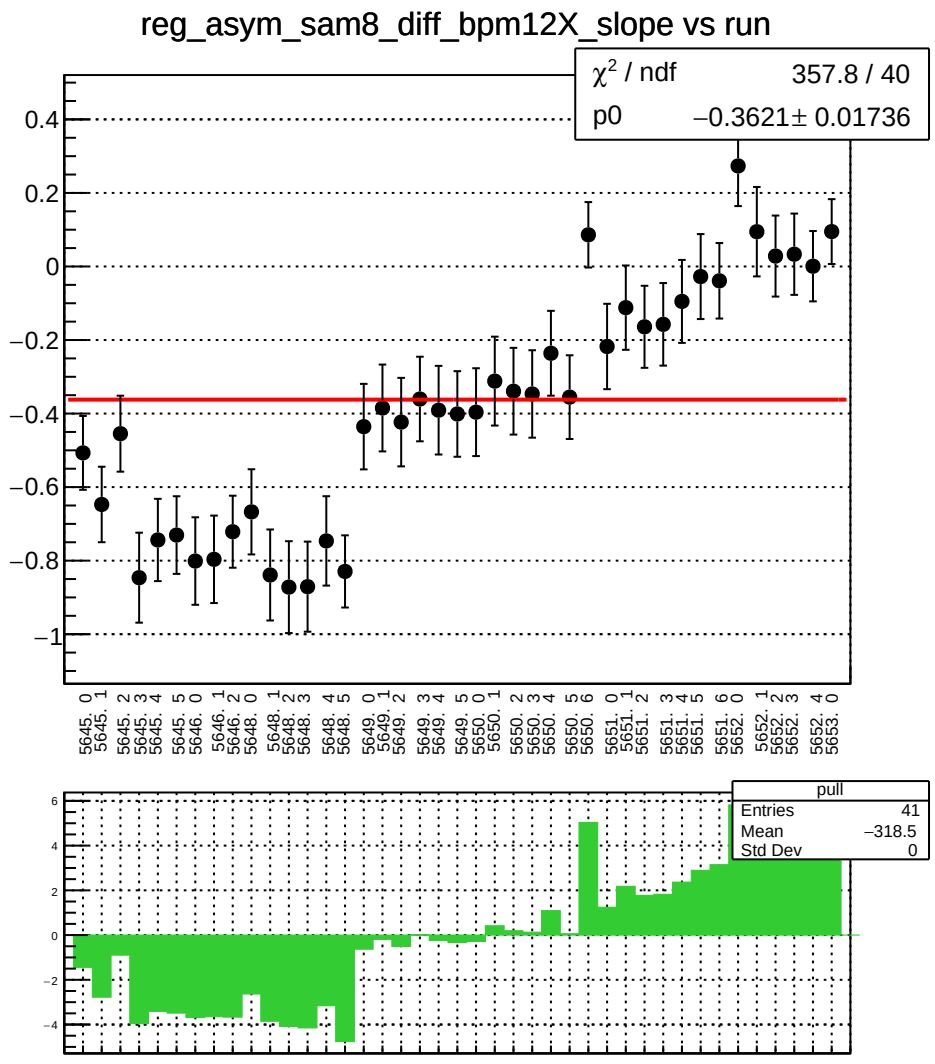

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 366 / 40
p0 −29.51 ± 0.4052
pull
Entries 41
Mean 65.54
Std Dev 0

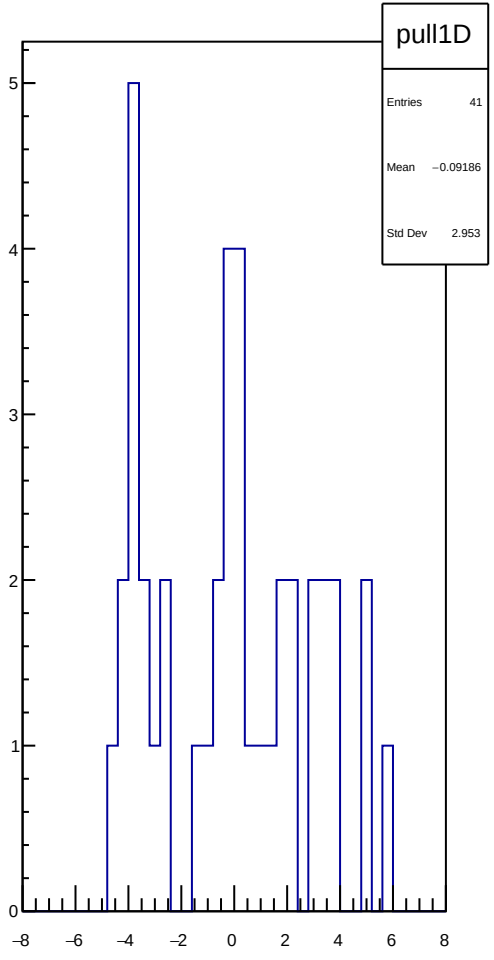

pull1D
Entries 41
Mean 0.6827
Std Dev 2.42

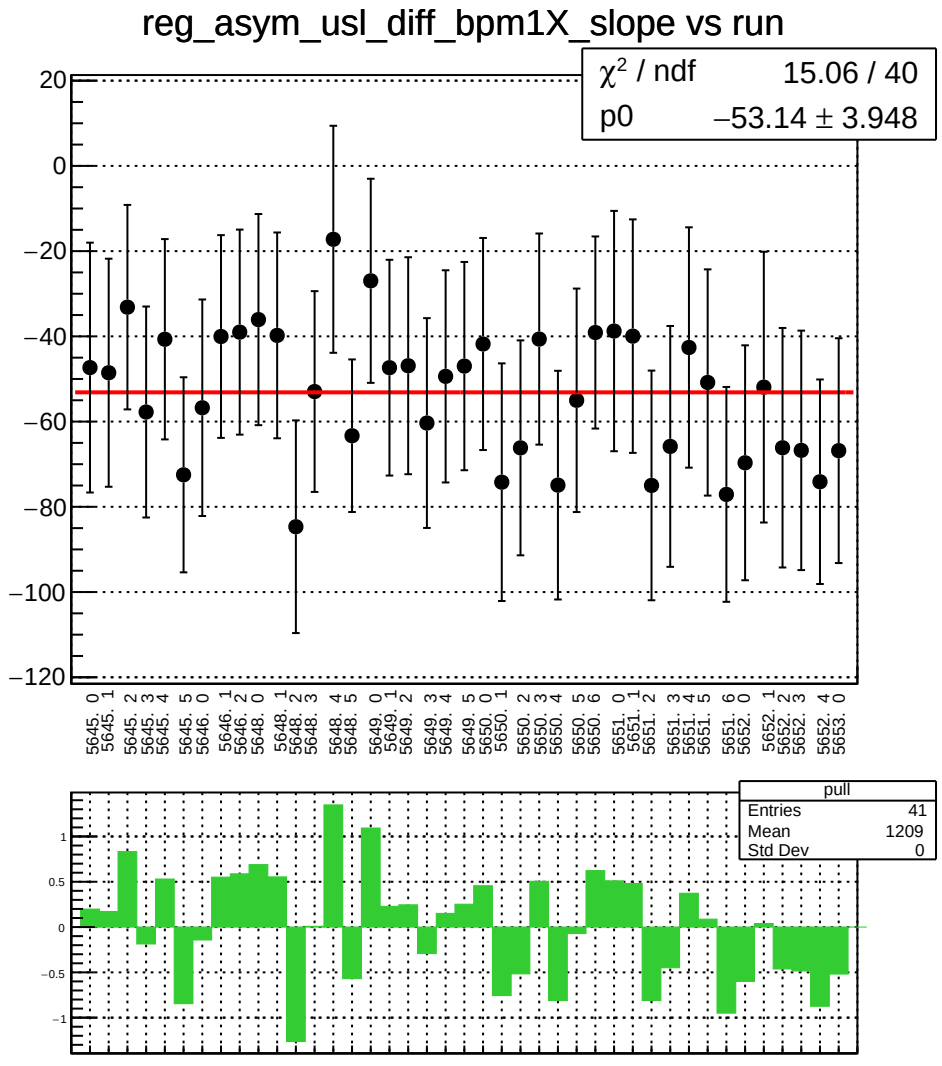

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 57.43 / 40
p0 −19.53 ± 0.4241
pull
Entries 41
Mean 355.5
Std Dev 0

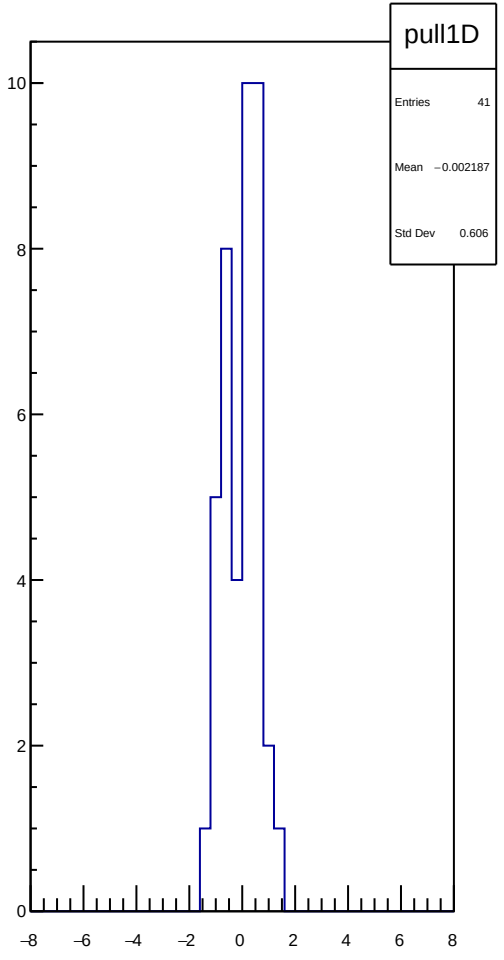

pull1D
Entries 41
Mean 0.01909
Std Dev 1.183

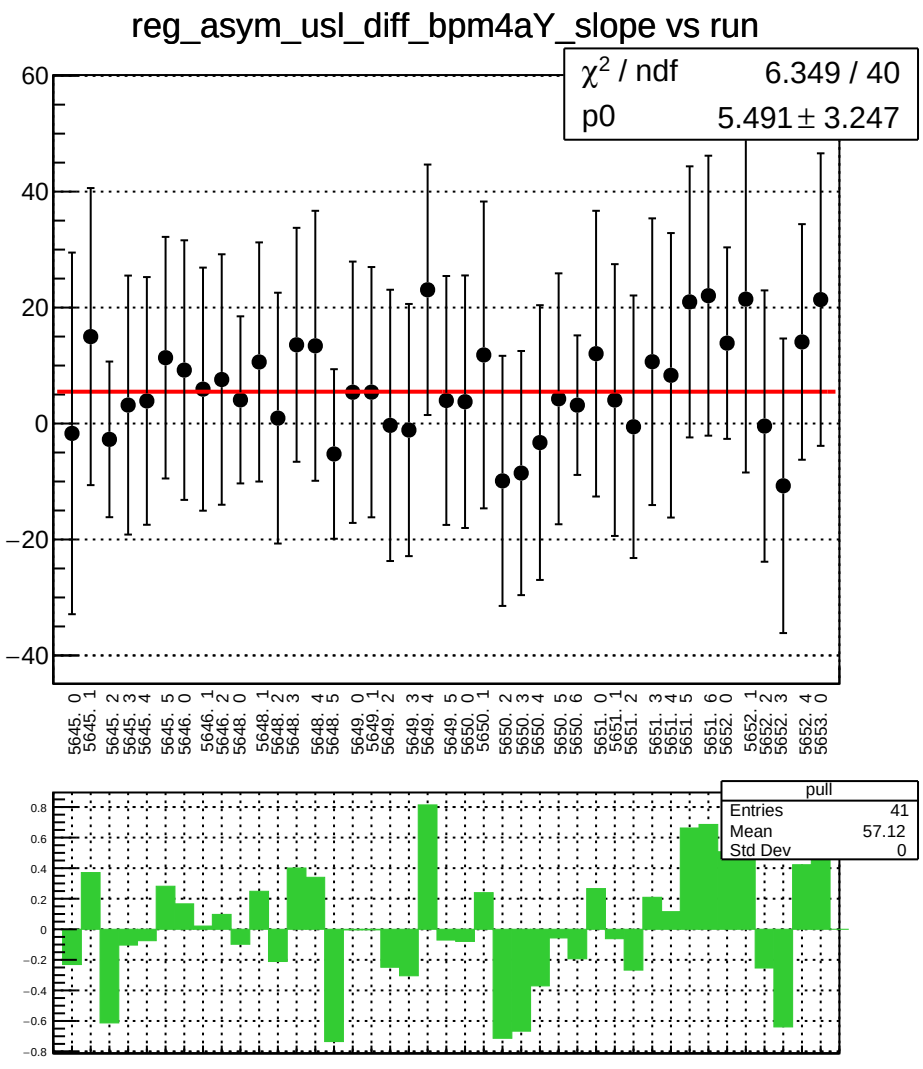

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 580.3 / 40
p0 19.14 ± 0.51
pull
Entries 41
Mean 91.56
Std Dev 0
pull1D
Entries 41
Mean −0.7344
Std Dev 3.23

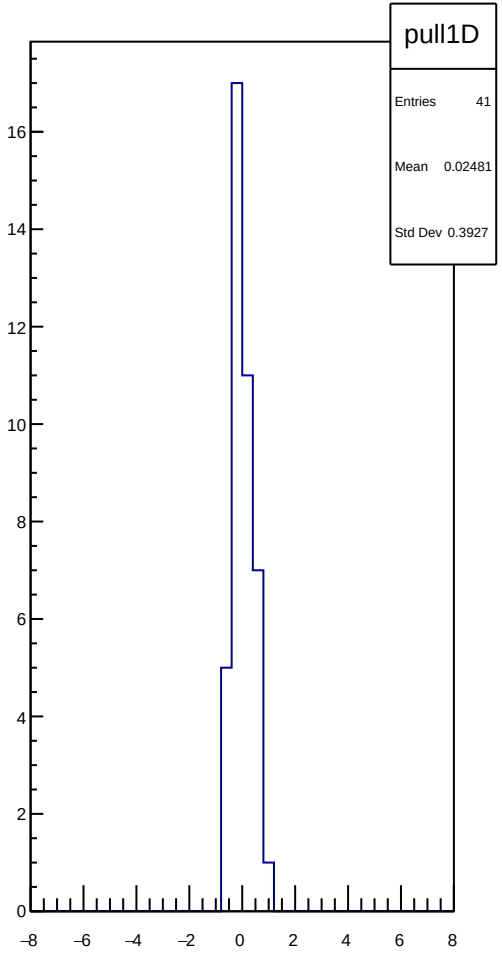

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 357.8 / 40
p0 −0.3621± 0.01736
pull
Entries 41
Mean −318.5
Std Dev 0

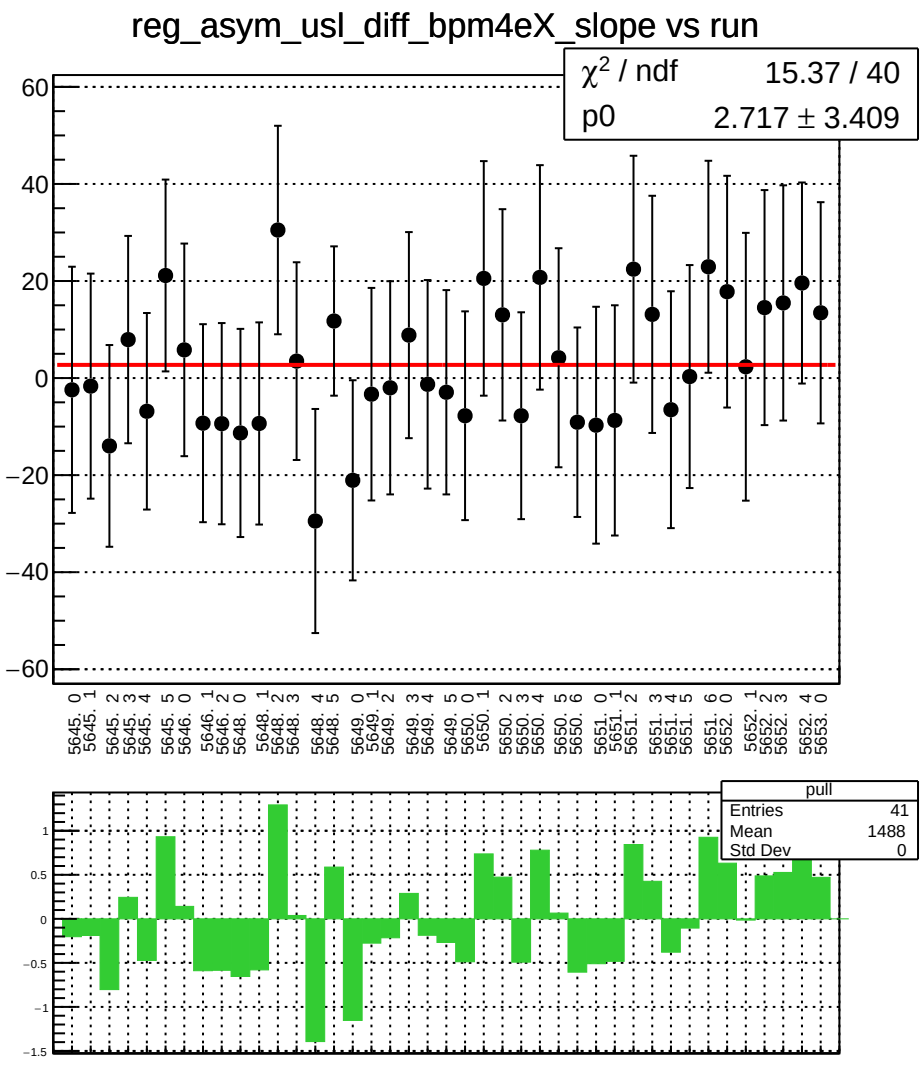

pull1D
Entries 41
Mean −0.09186
Std Dev 2.953

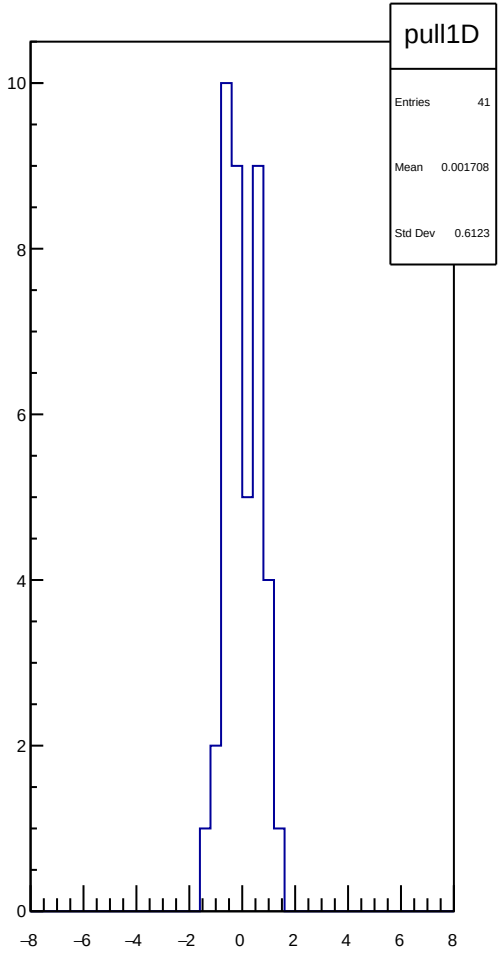

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 15.06 / 40
p0 −53.14 ± 3.948
pull
Entries 41
Mean 1209
Std Dev 0

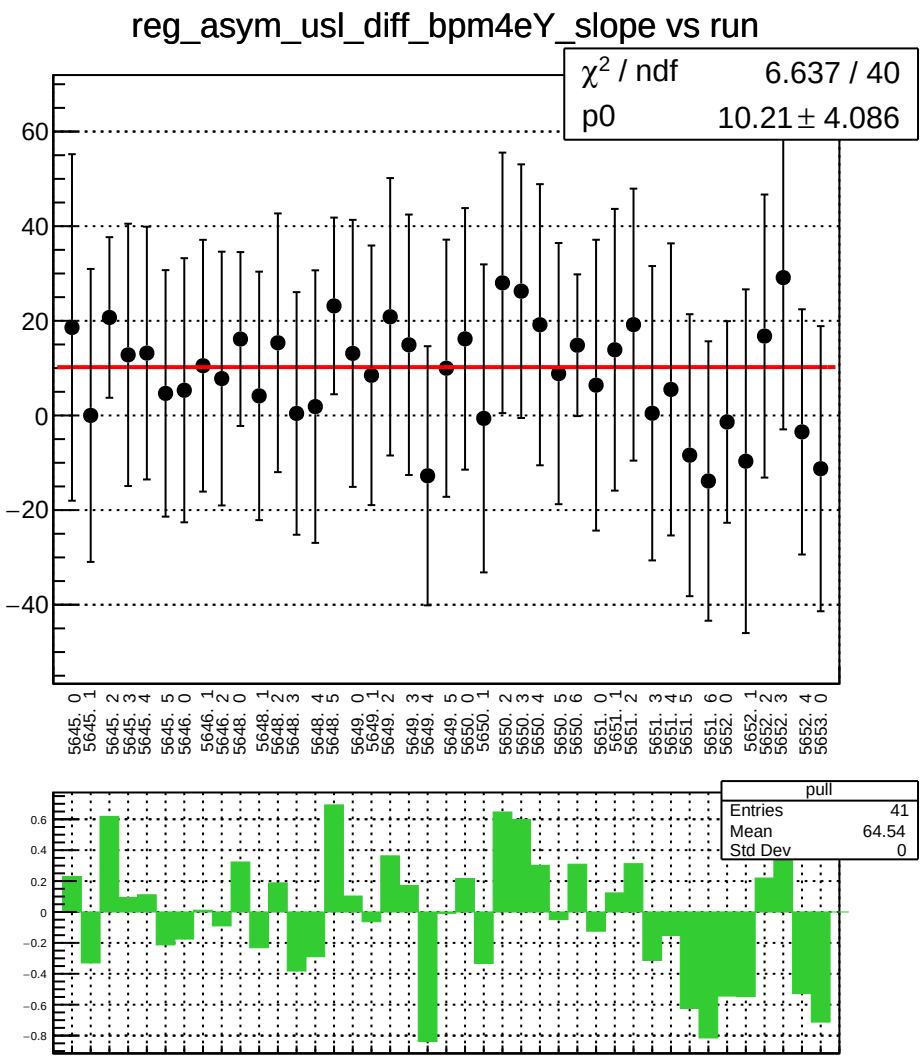

pull1D
Entries 41
Mean −0.002187
Std Dev 0.606

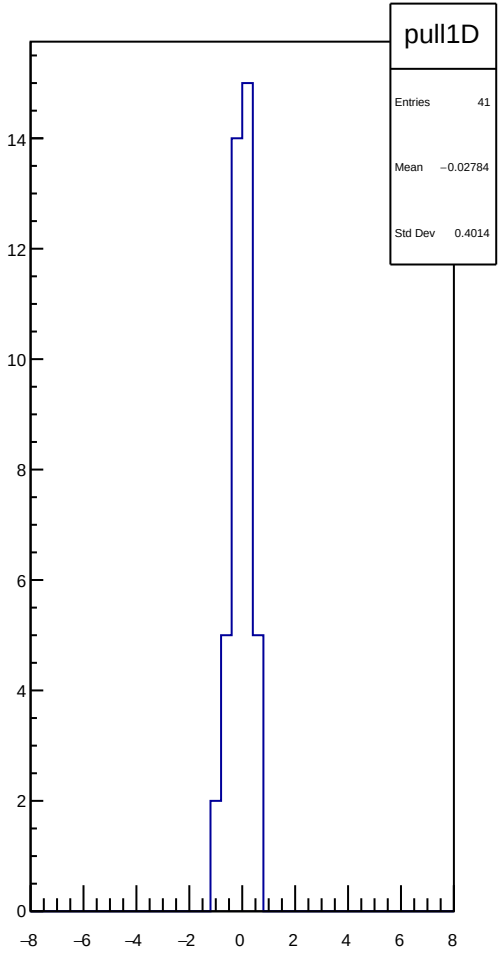

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 6.349 / 40
p0 5.491 ± 3.247
pull
Entries 41
Mean 57.12
Std Dev 0

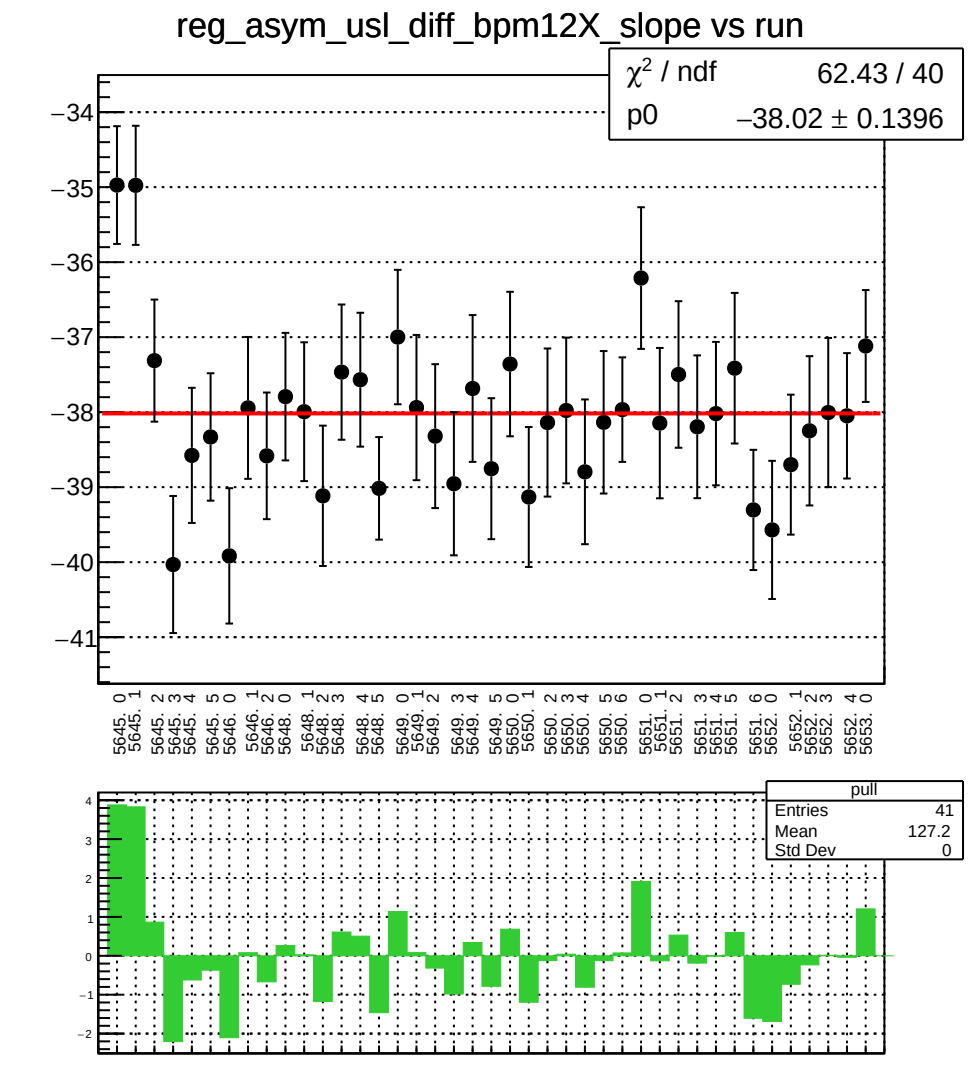

pull1D
Entries 41
Mean 0.02481
Std Dev 0.3927

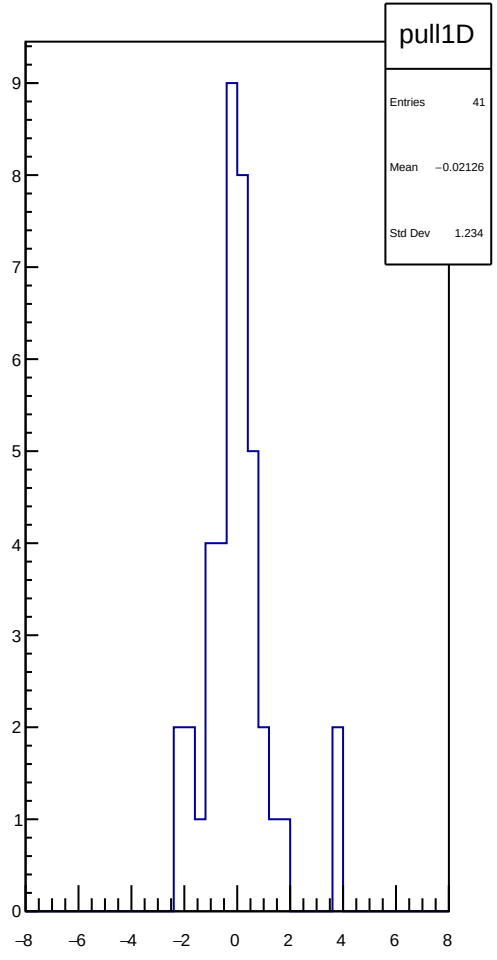

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 15.37 / 40
p0 2.717 ± 3.409
pull
Entries 41
Mean 1488
Std Dev 0

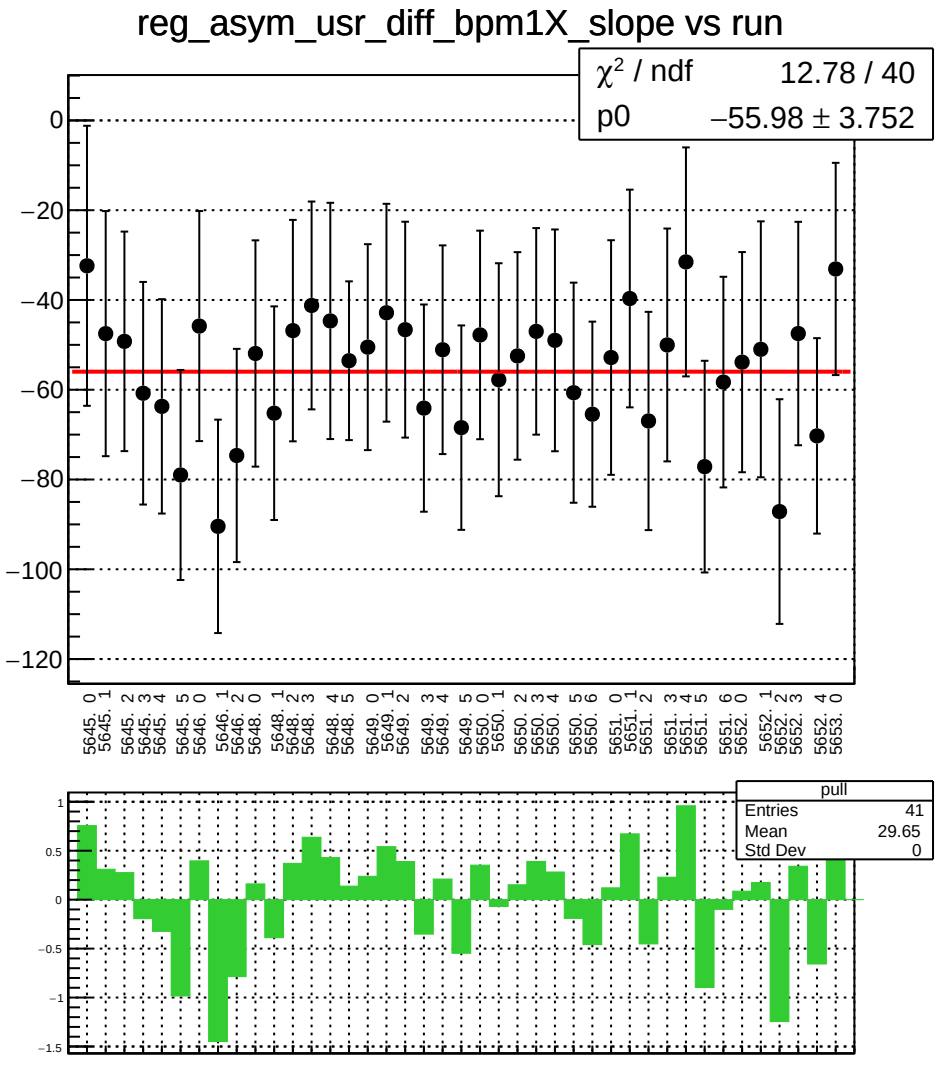

pull1D
Entries 41
Mean 0.001708
Std Dev 0.6123

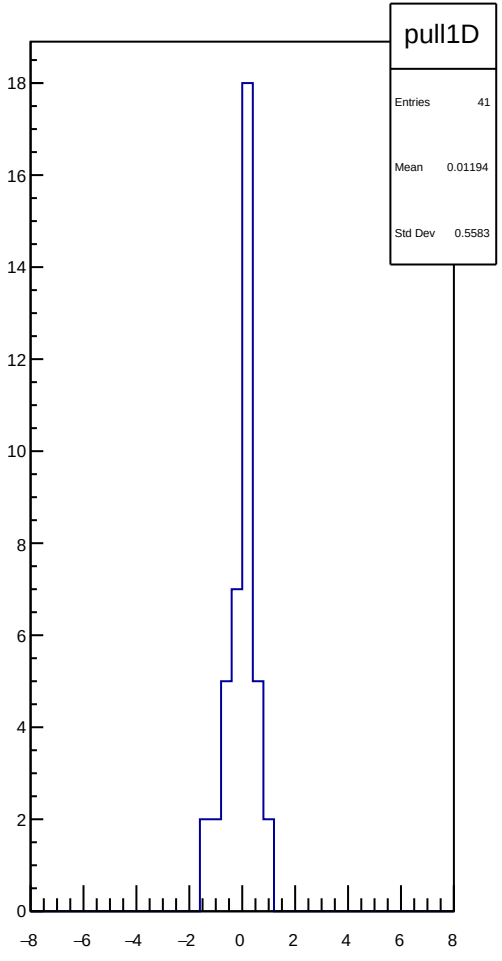

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 6.637 / 40
p0 10.21 ± 4.086
pull
Entries 41
Mean 64.54
Std Dev 0

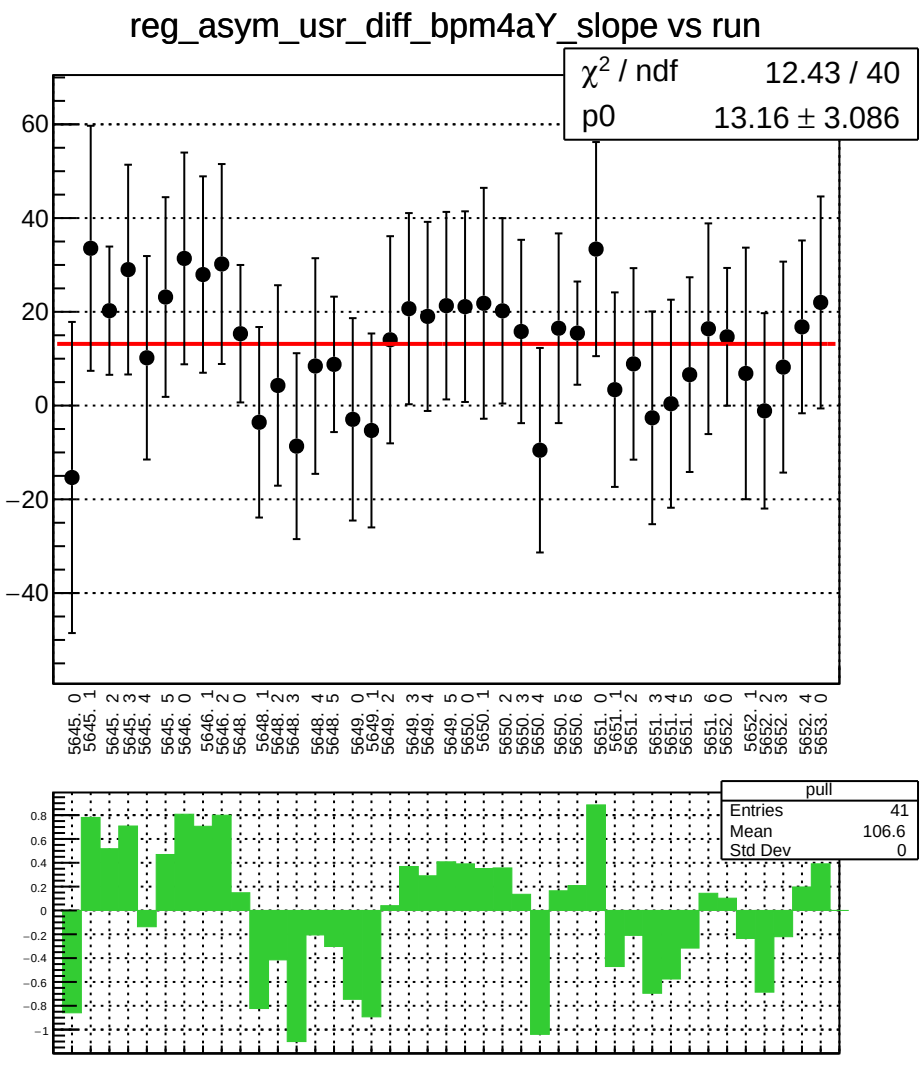

pull1D
Entries 41
Mean −0.02784
Std Dev 0.4014

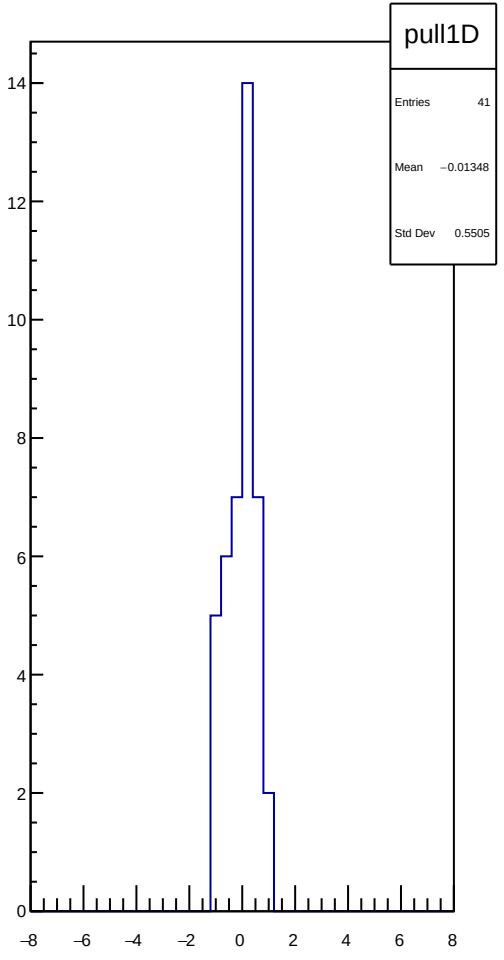

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 62.43 / 40
p0 −38.02 ± 0.1396
pull
Entries 41
Mean 127.2
Std Dev 0

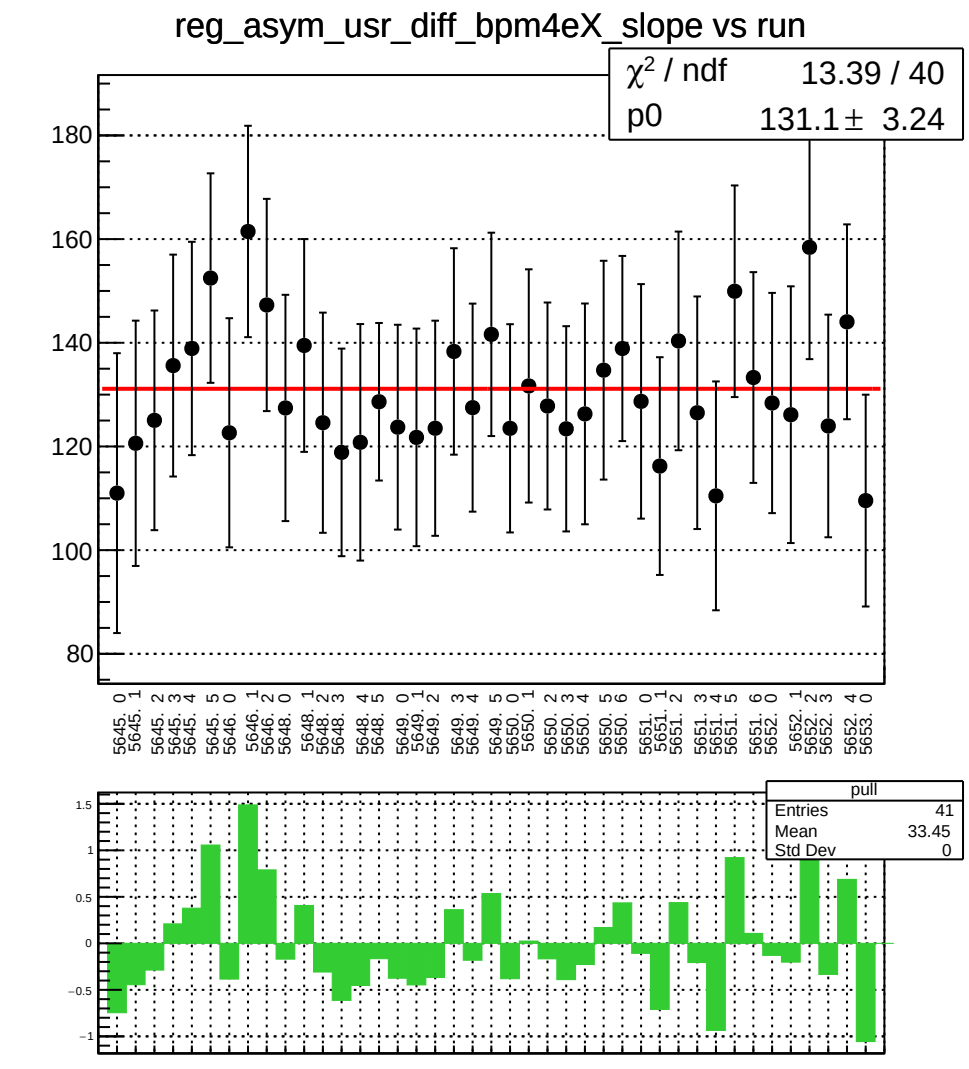

pull1D
Entries 41
Mean −0.02126
Std Dev 1.234

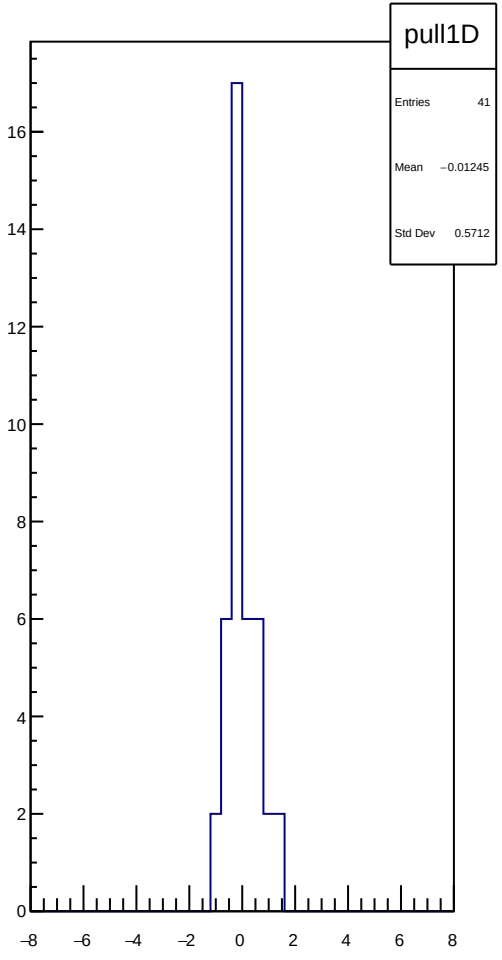

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 12.78 / 40
p0 −55.98 ± 3.752
pull
Entries 41
Mean 29.65
Std Dev 0

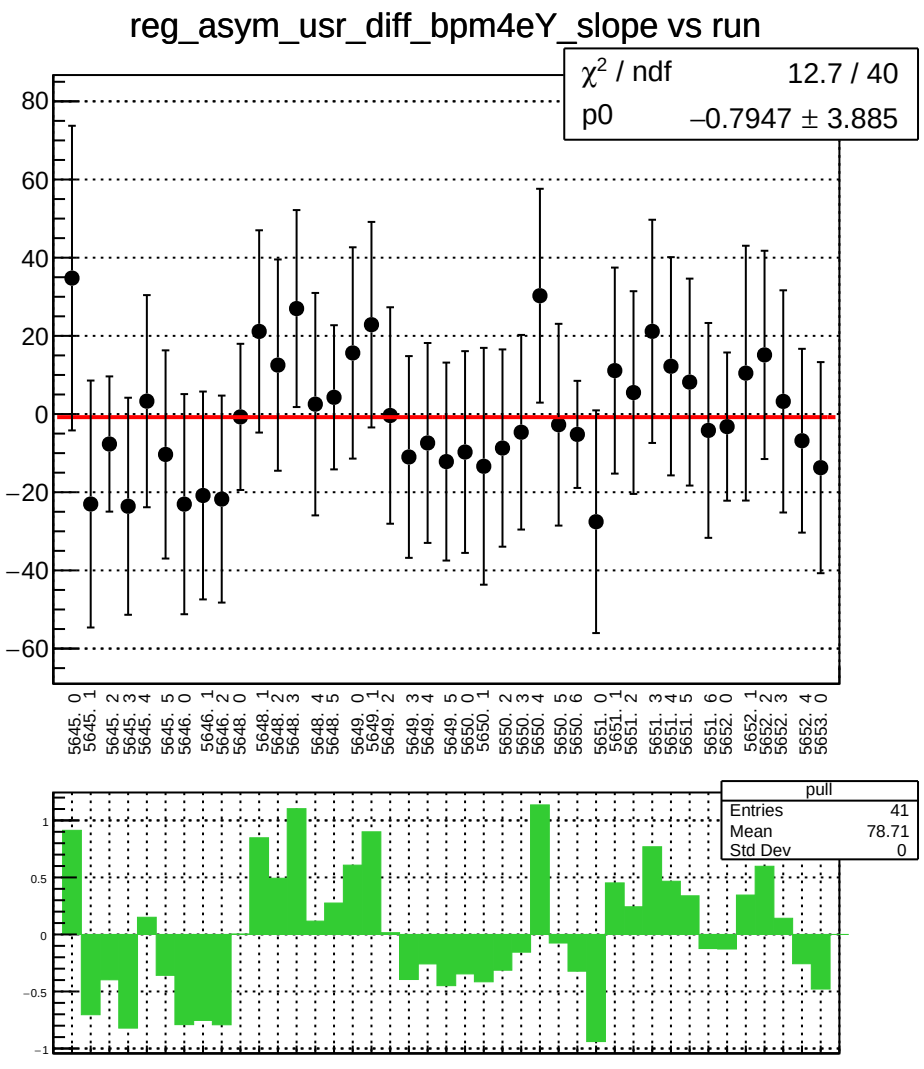

pull1D
Entries 41
Mean 0.01194
Std Dev 0.5583

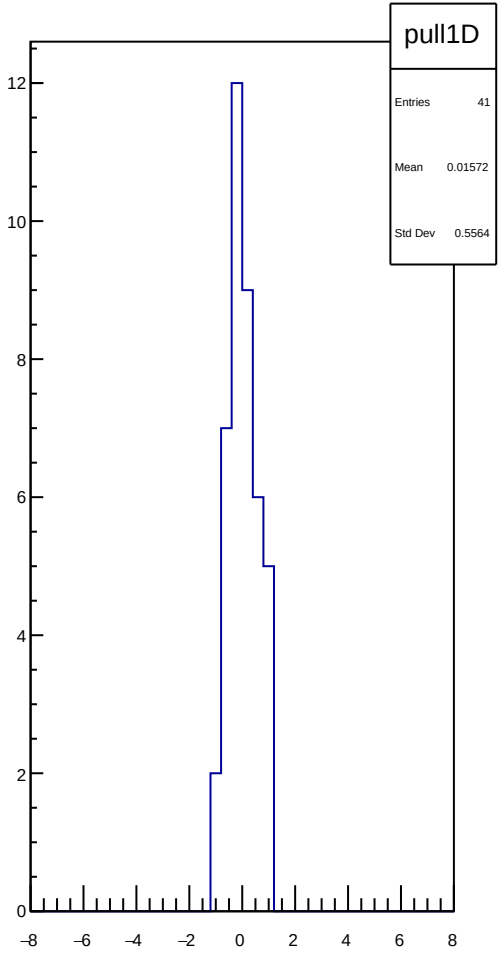

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 40
p0 13.16 ± 3.086
pull
Entries 41
Mean 106.6
Std Dev 0

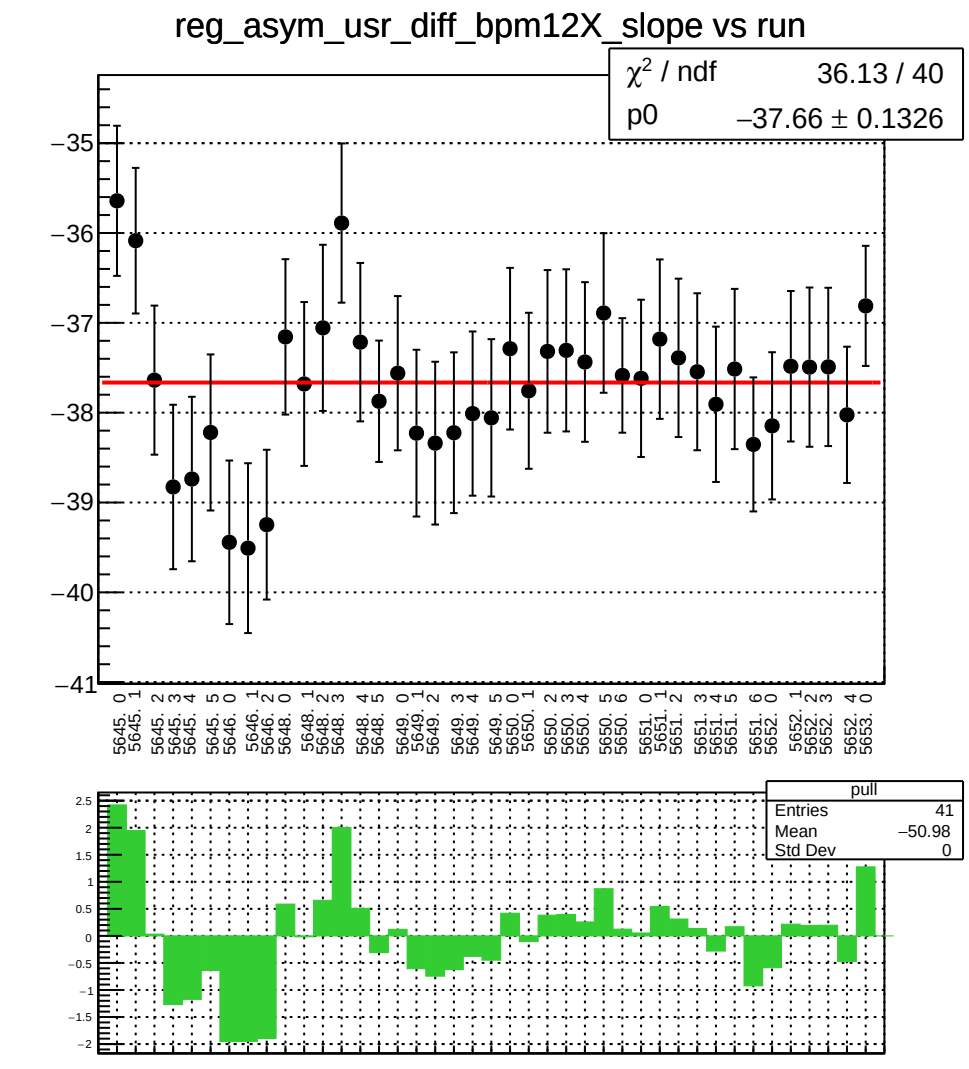

pull1D
Entries 41
Mean −0.01348
Std Dev 0.5505

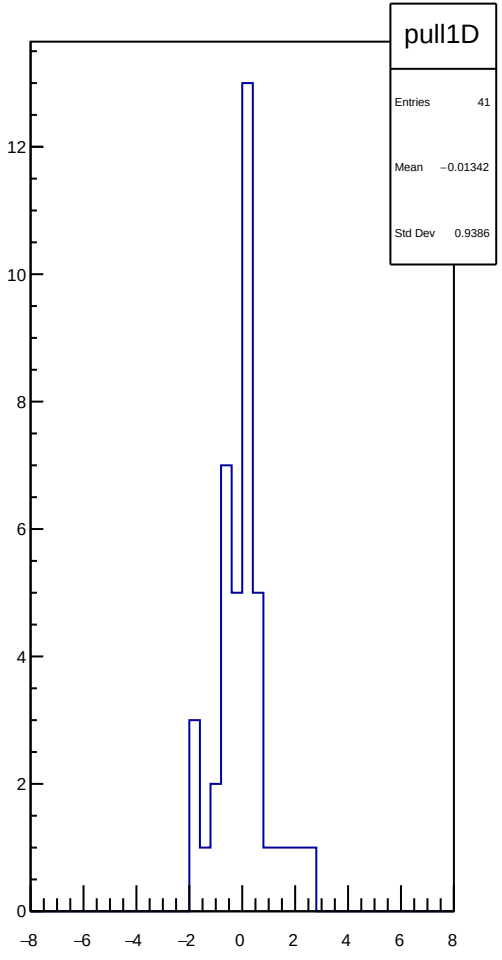

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.39 / 40
p0 131.1 ± 3.24
pull
Entries 41
Mean 33.45
Std Dev 0

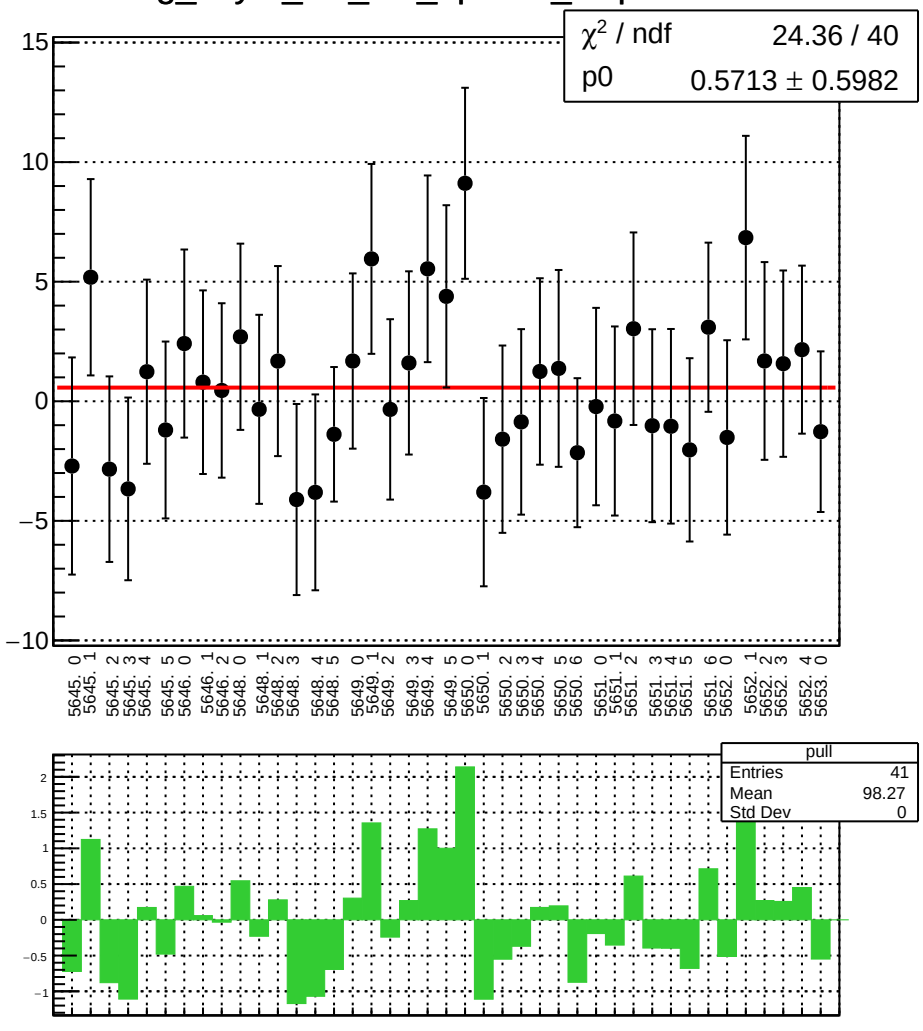

pull1D
Entries 41
Mean −0.01245
Std Dev 0.5712

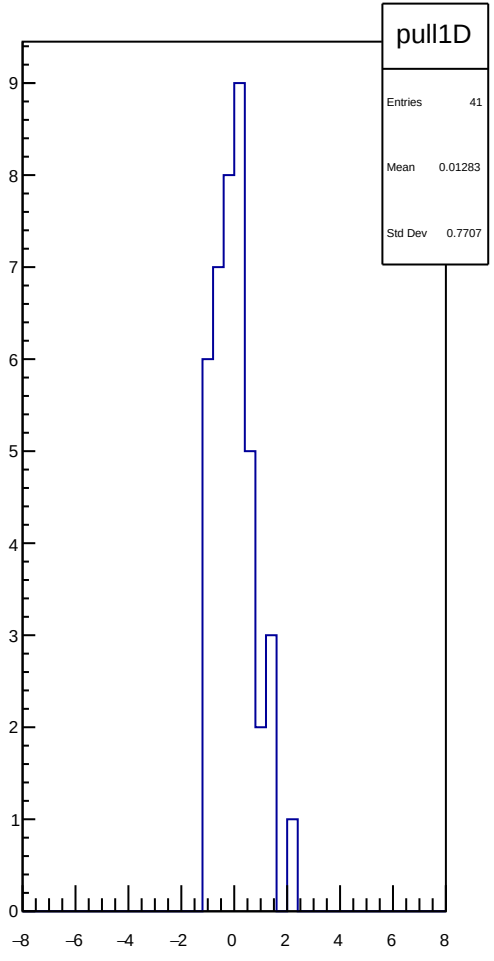

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 12.7 / 40
p0 −0.7947 ± 3.885
pull
Entries 41
Mean 78.71
Std Dev 0

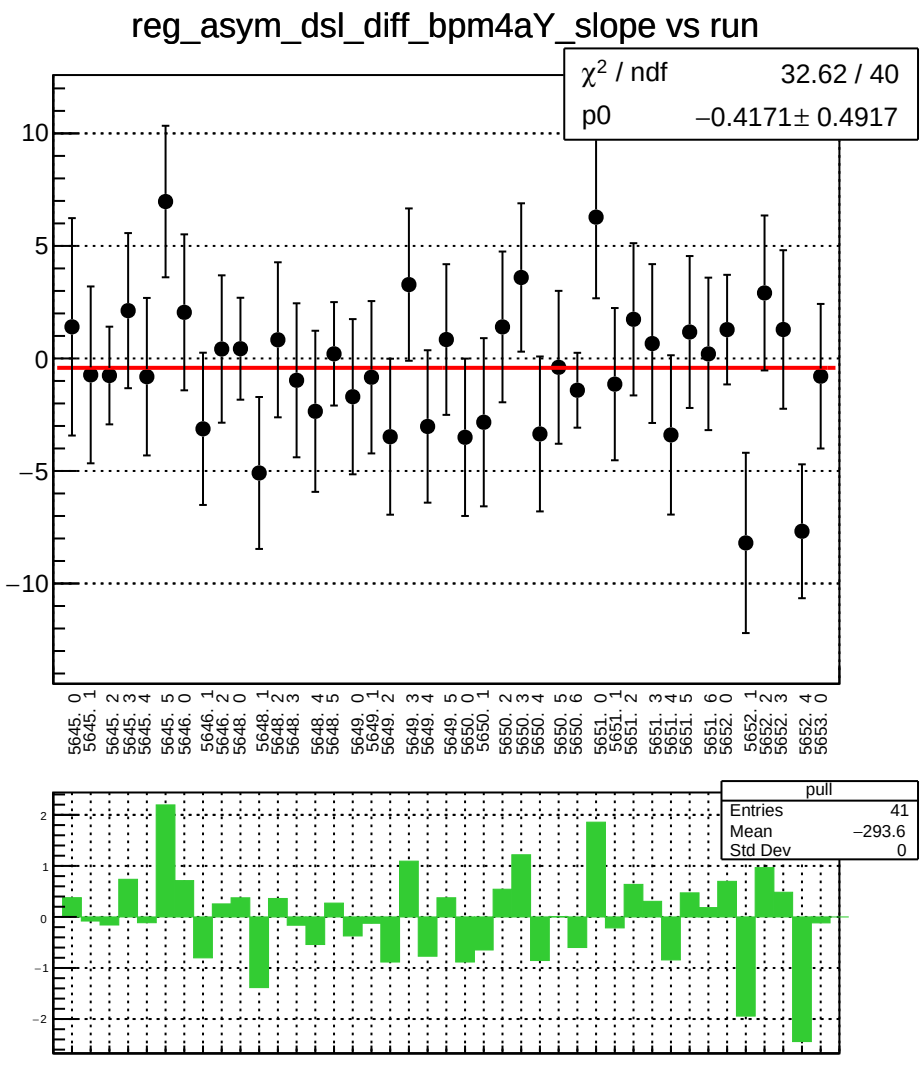

pull1D
Entries 41
Mean 0.01572
Std Dev 0.5564

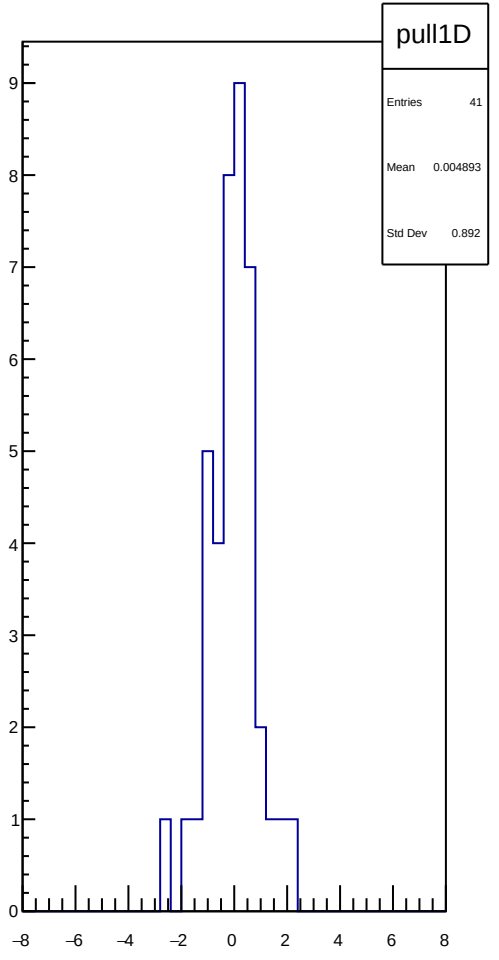

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 36.13 / 40
p0 −37.66 ± 0.1326
pull
Entries 41
Mean −50.98
Std Dev 0

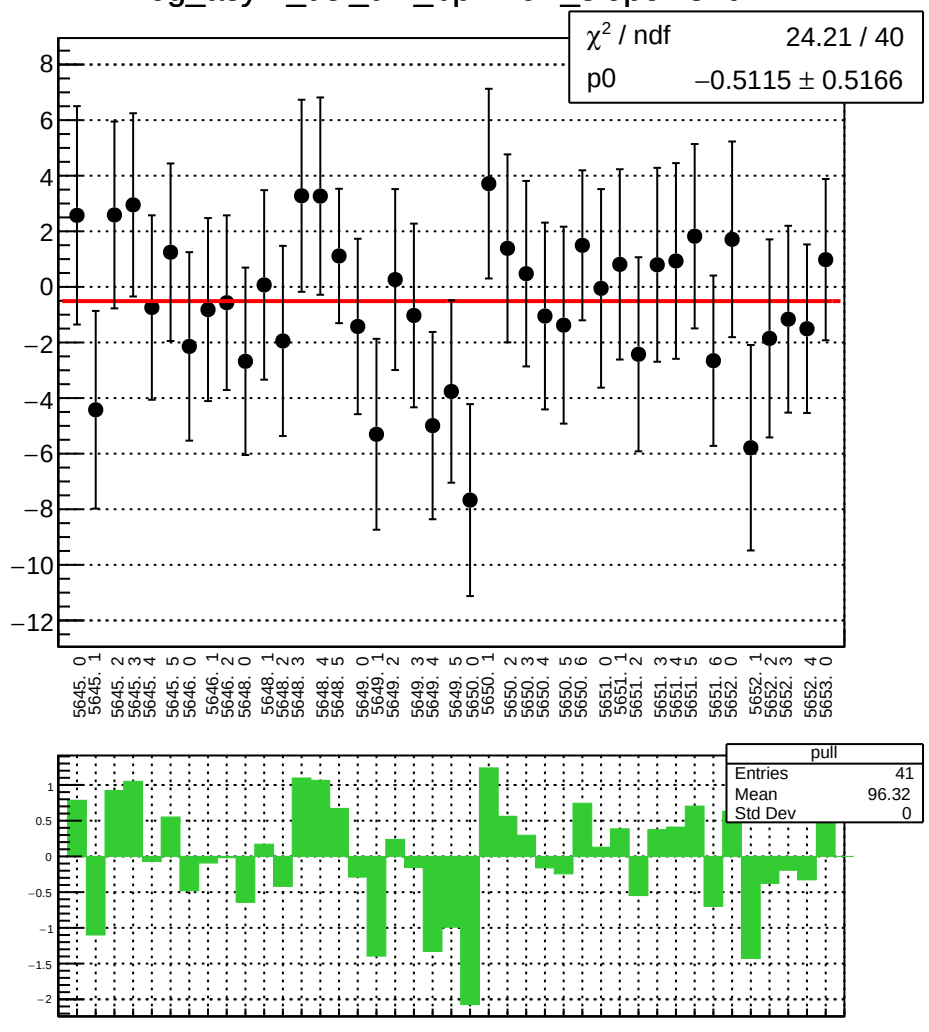

pull1D
Entries 41
Mean −0.01342
Std Dev 0.9386

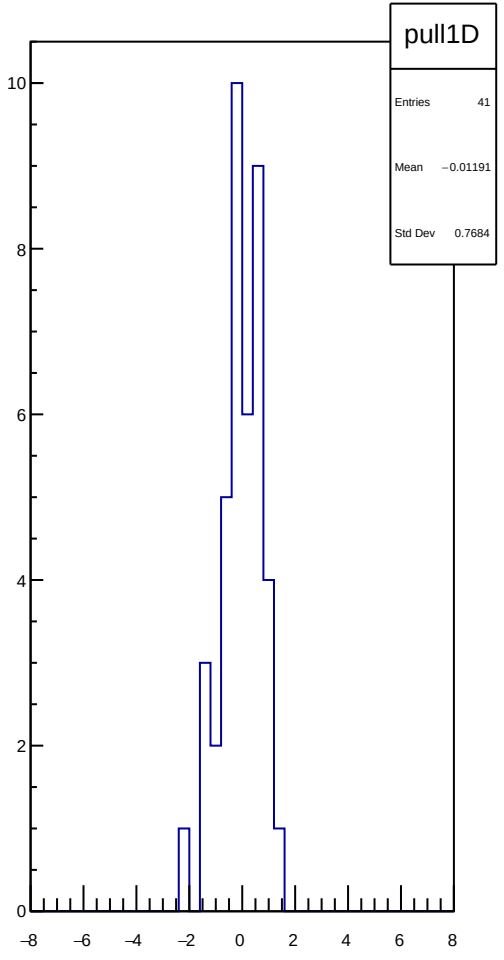

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 24.36 / 40
p0 0.5713 ± 0.5982
pull
Entries 41
Mean 98.27
Std Dev 0

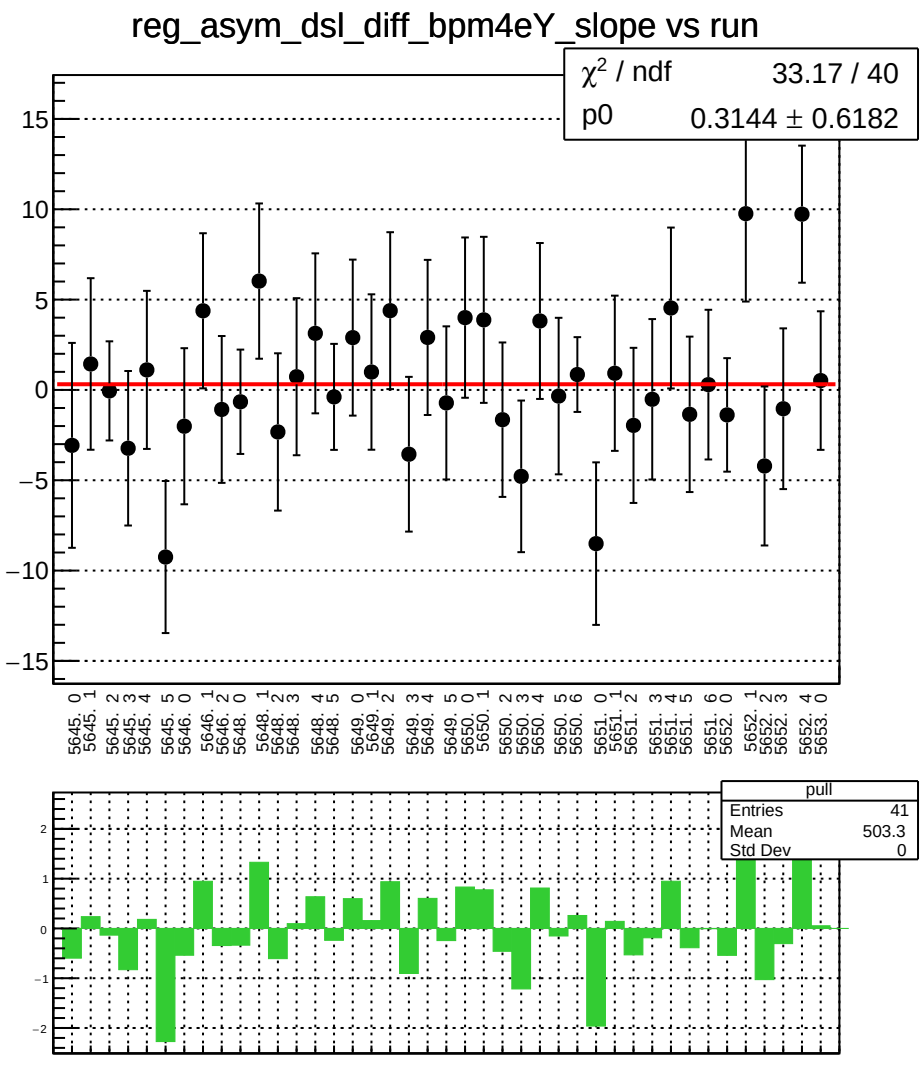

pull1D
Entries 41
Mean 0.01283
Std Dev 0.7707

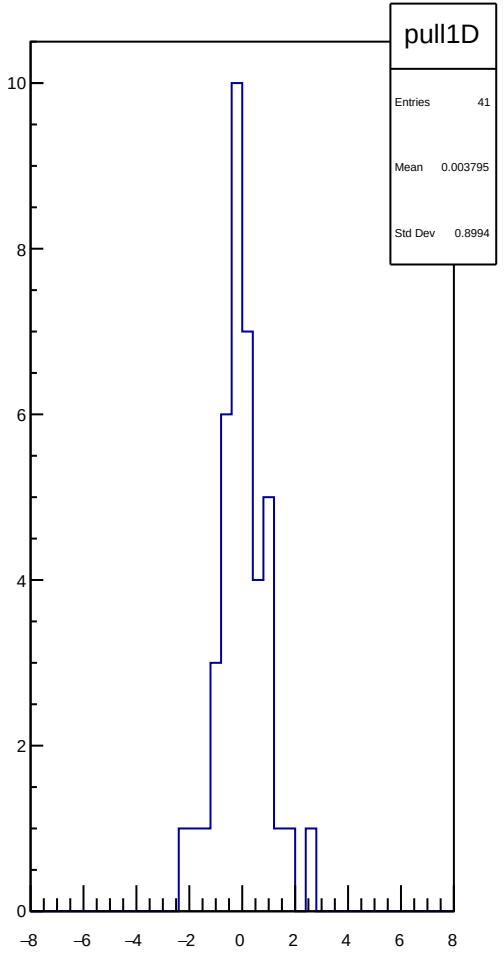

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 32.62 / 40
p0 −0.4171± 0.4917
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −293.6
Std Dev 0
2
1
0
−1
−2

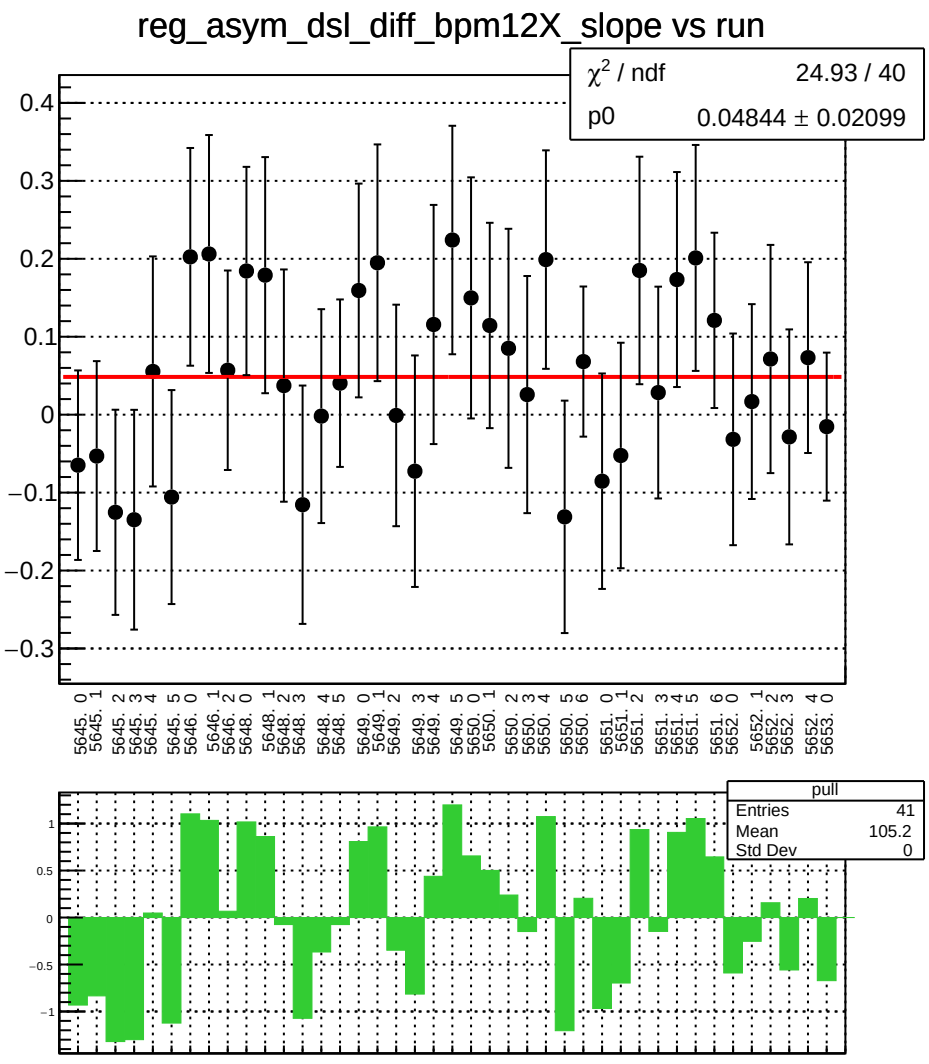

pull1D
Entries 41
Mean 0.004893
Std Dev 0.892
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

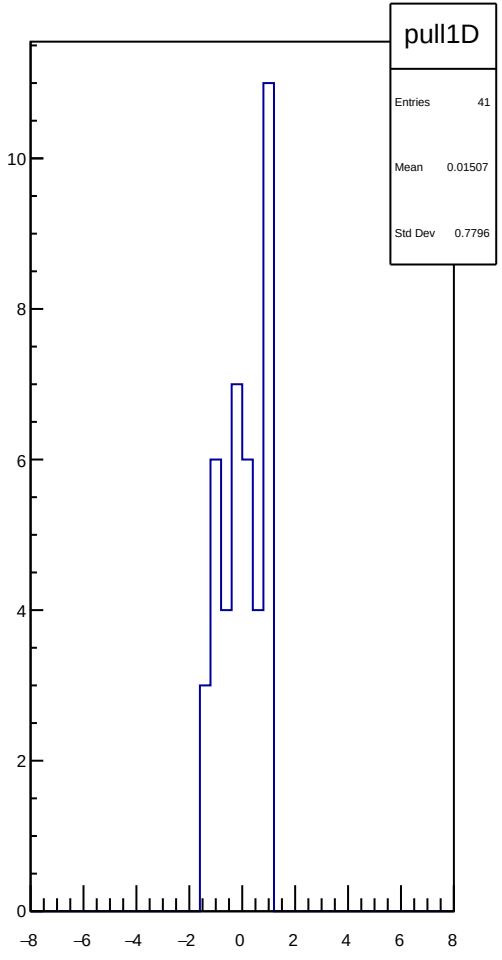

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 24.21 / 40
p0 −0.5115 ± 0.5166
pull
Entries 41
Mean 96.32
Std Dev 0

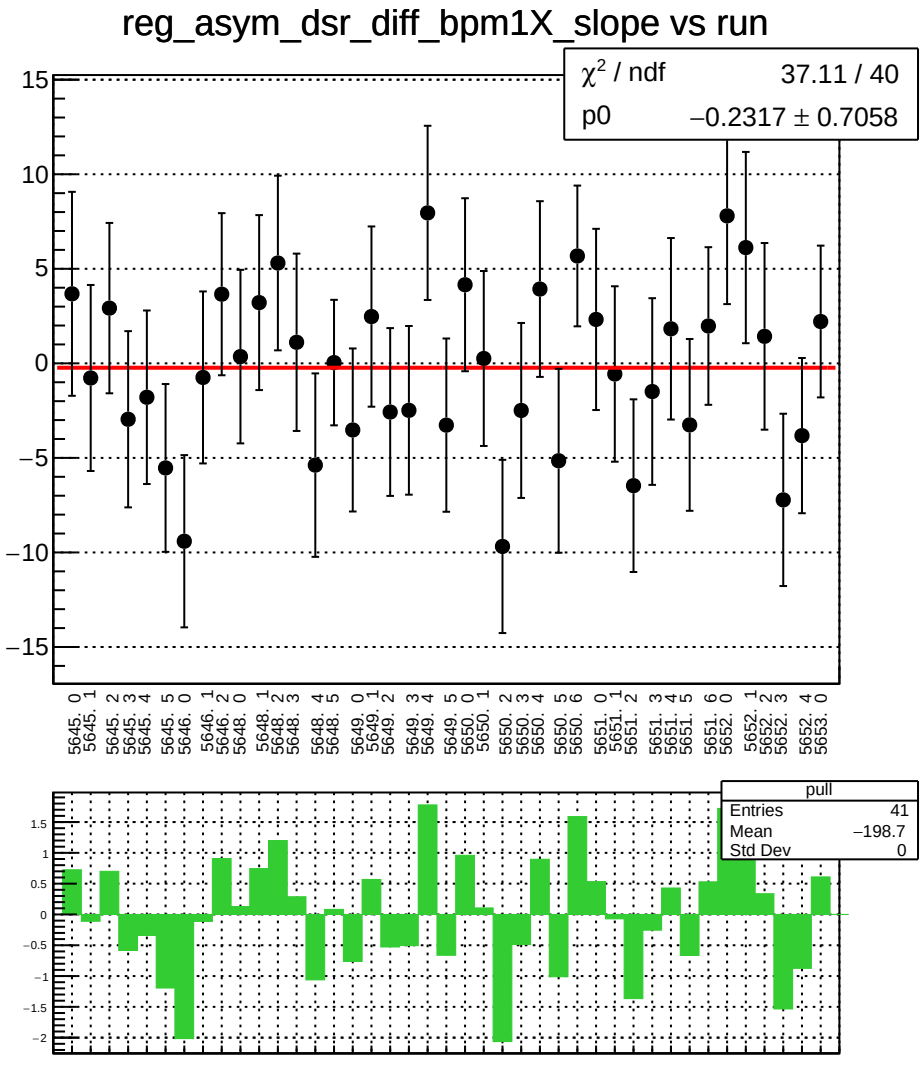

pull1D
Entries 41
Mean −0.01191
Std Dev 0.7684

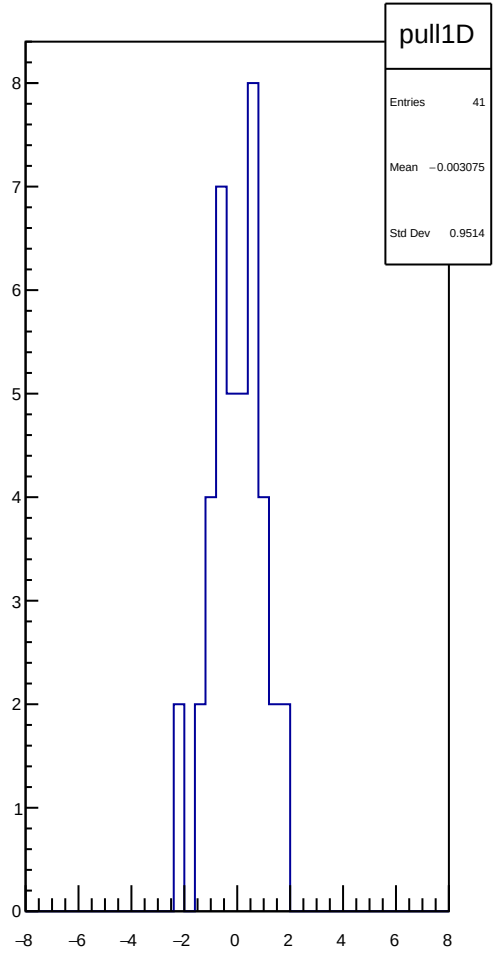

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 33.17 / 40
p0 0.3144 ± 0.6182
15
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 503.3
Std Dev 0
2
1
0
−1
−2

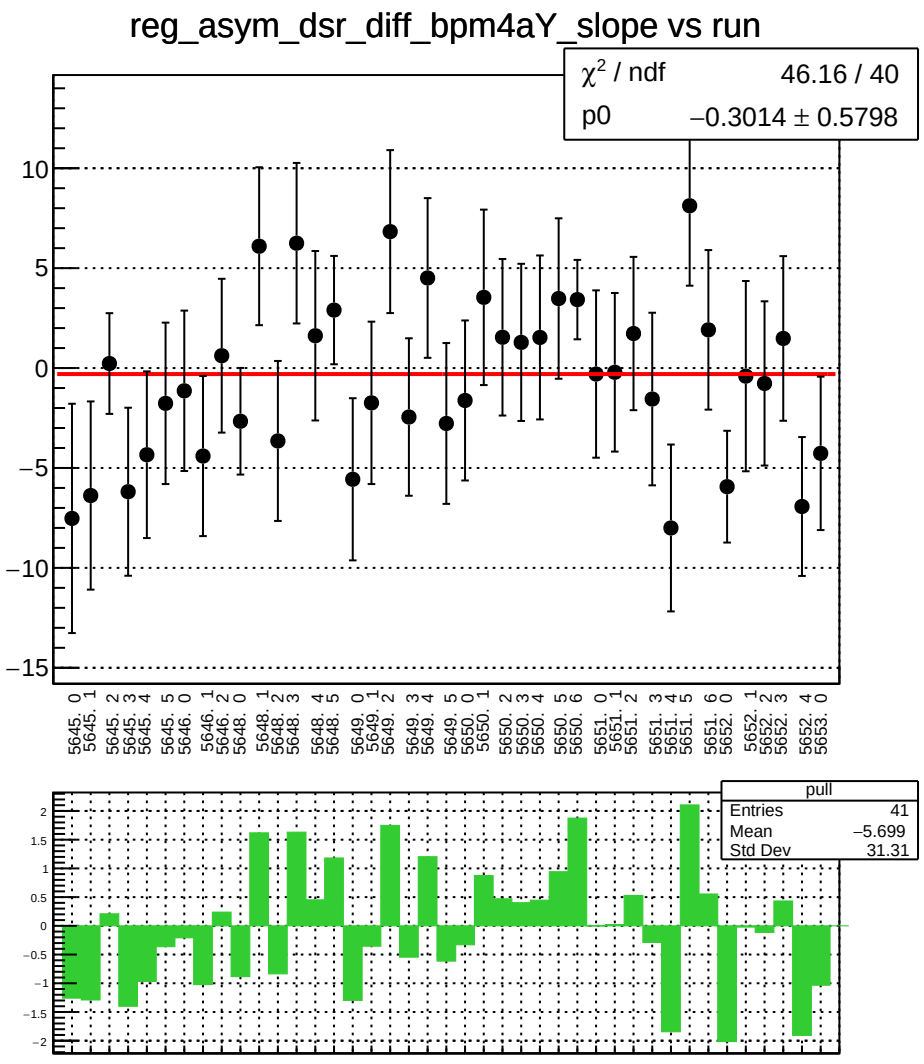

pull1D
Entries 41
Mean 0.003795
Std Dev 0.8994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

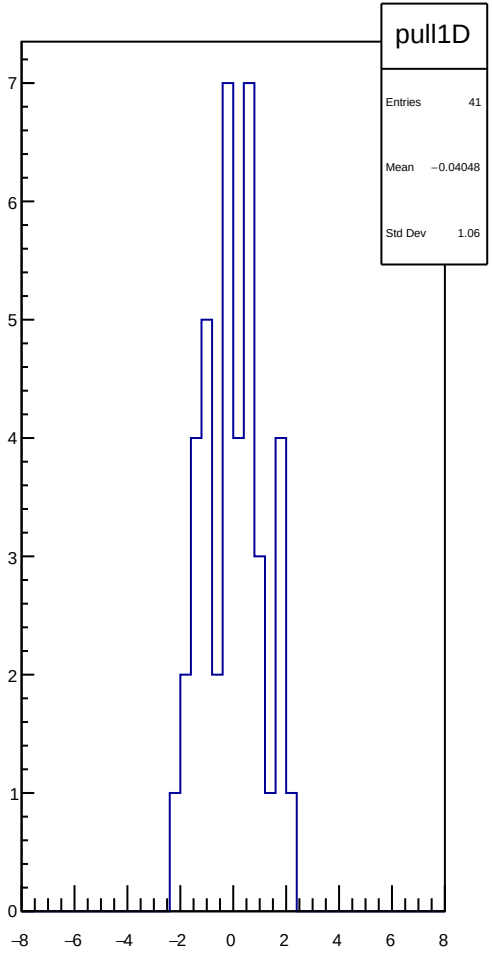

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 24.93 / 40
p0 0.04844 ± 0.02099
pull
Entries 41
Mean 105.2
Std Dev 0

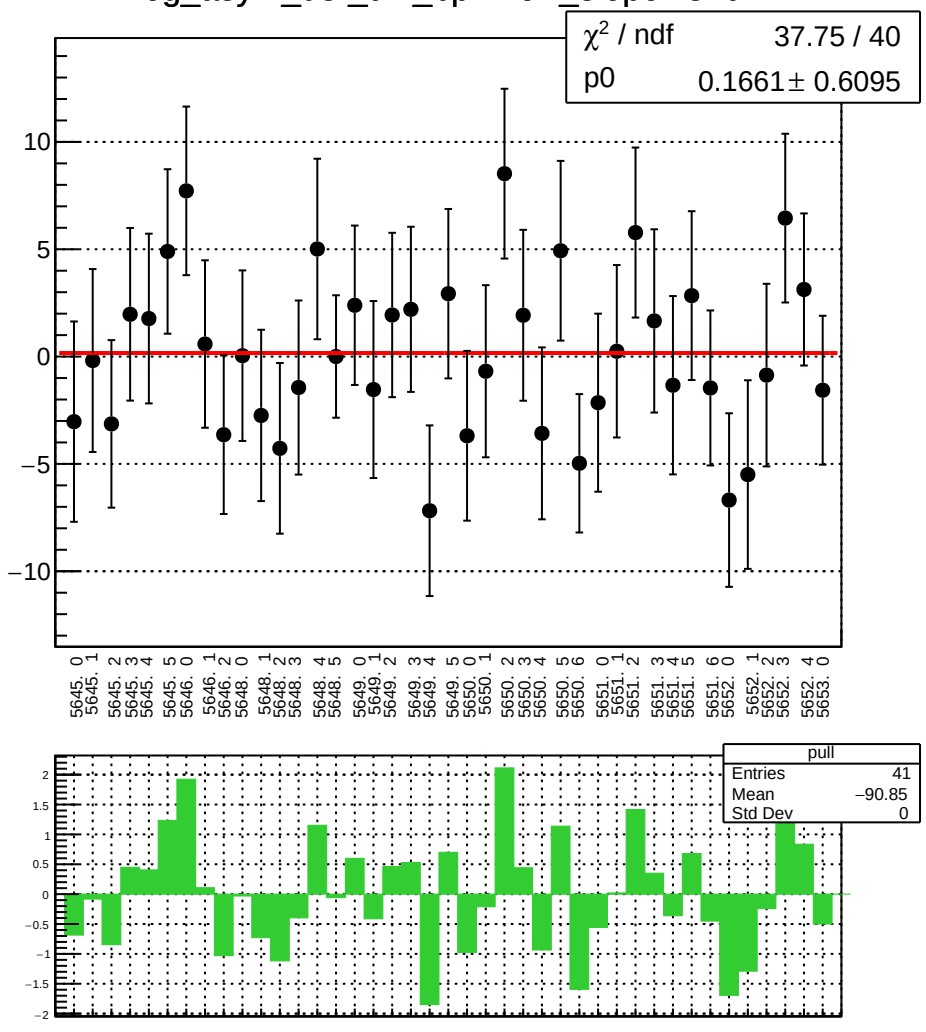

pull1D
Entries 41
Mean 0.01507
Std Dev 0.7796

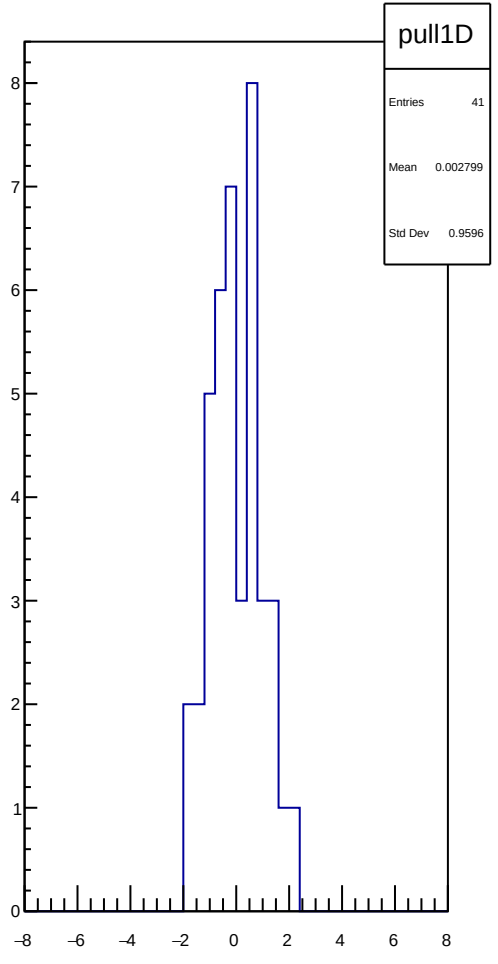

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 37.11 / 40
p0 −0.2317 ± 0.7058
pull
Entries 41
Mean −198.7
Std Dev 0

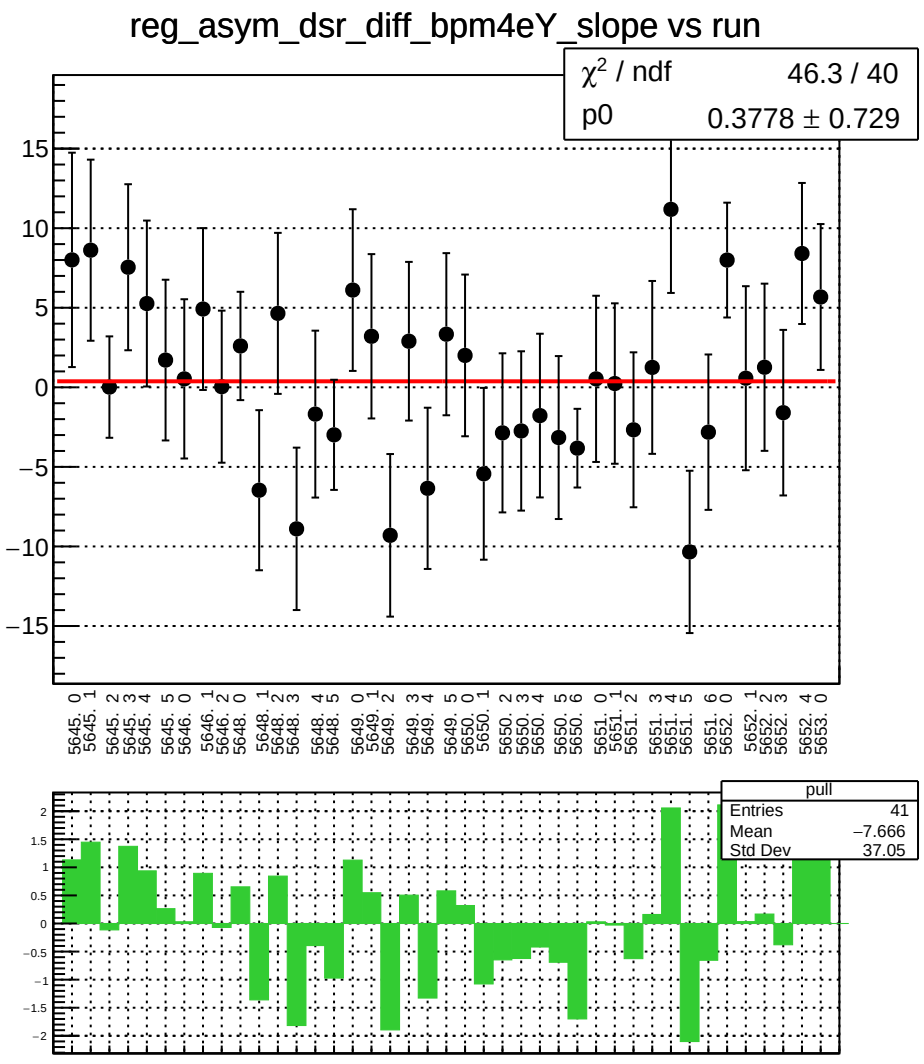

pull1D
Entries 41
Mean −0.003075
Std Dev 0.9514

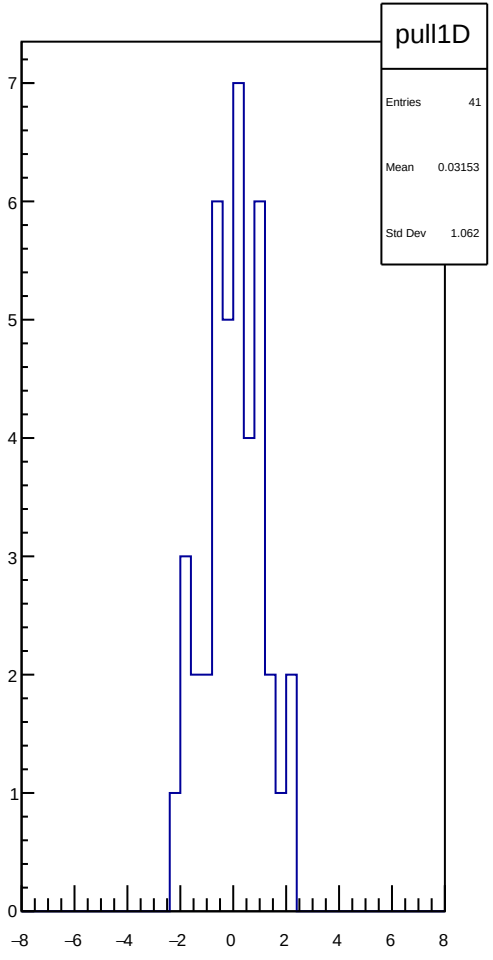

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 46.16 / 40
p0 −0.3014 ± 0.5798
pull
Entries 41
Mean −5.699
Std Dev 31.31

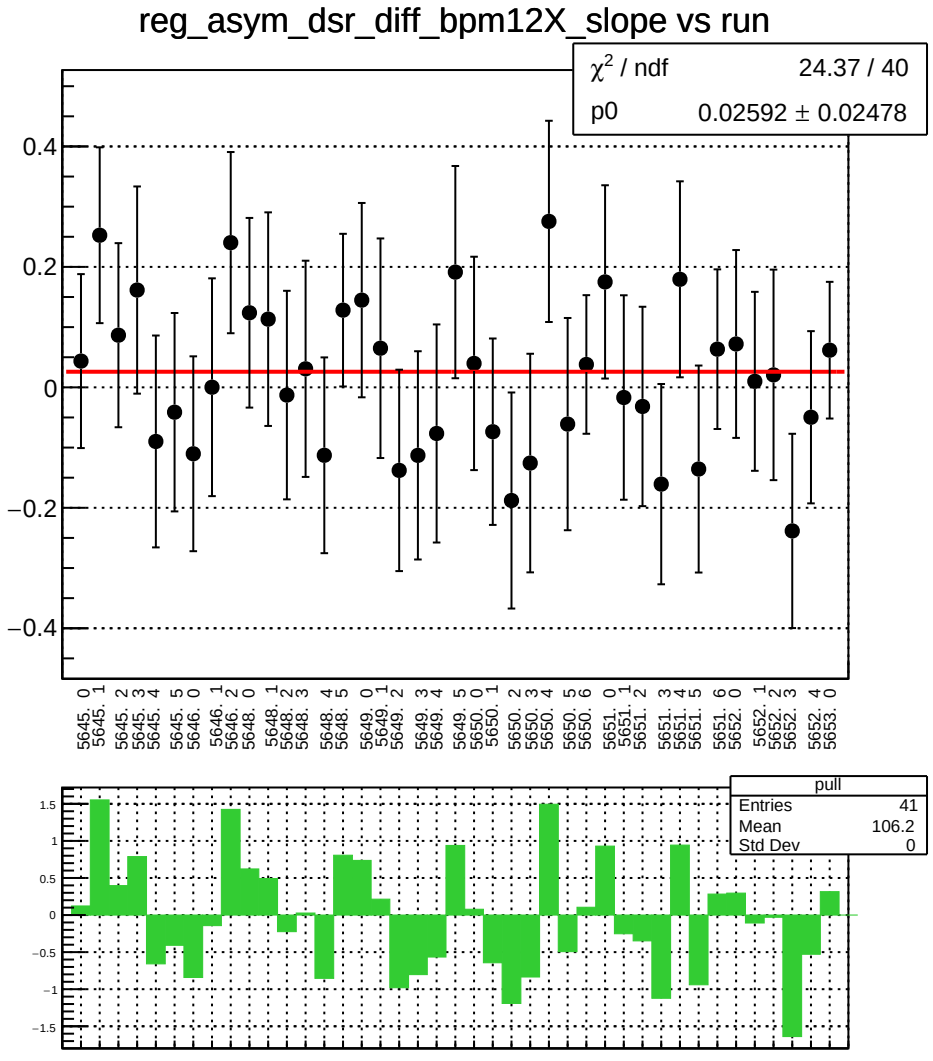

pull1D
Entries 41
Mean −0.04048
Std Dev 1.06

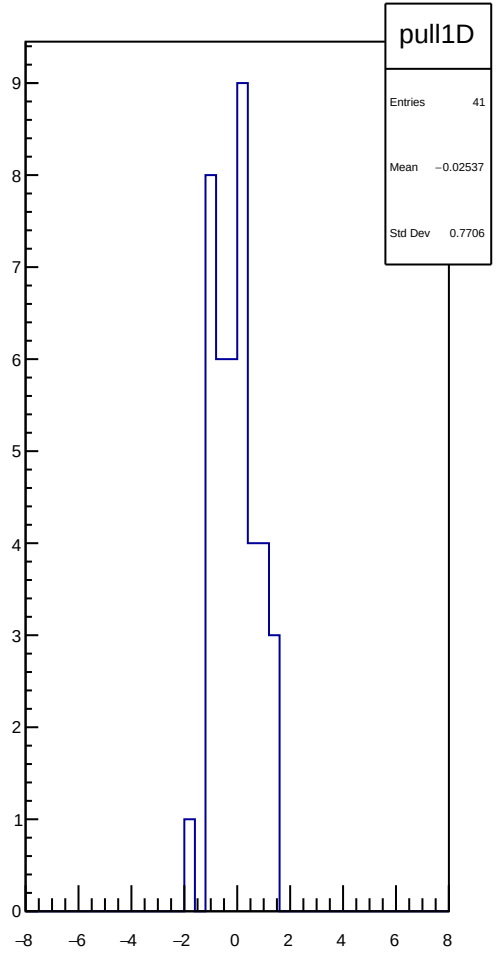

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 37.75 / 40
p0 0.1661 ± 0.6095
pull
Entries 41
Mean −90.85
Std Dev 0

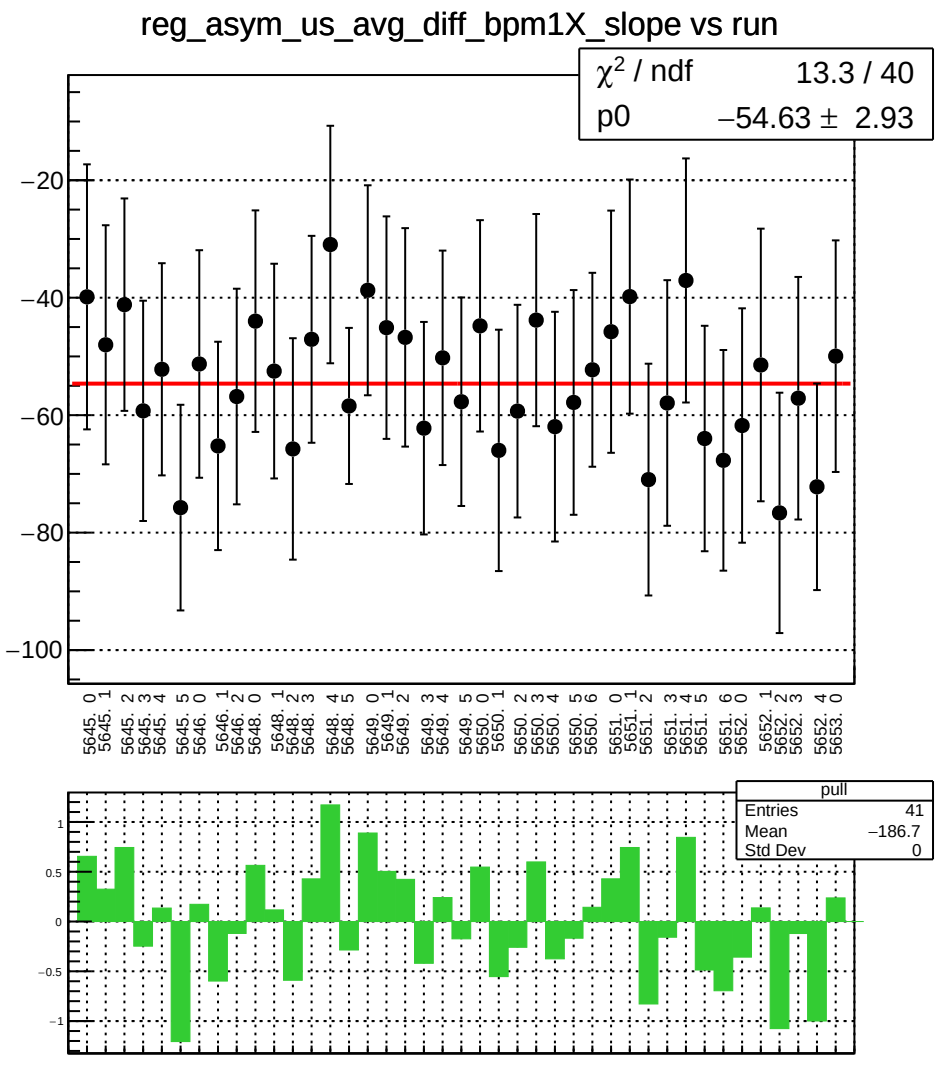

pull1D
Entries 41
Mean 0.002799
Std Dev 0.9596

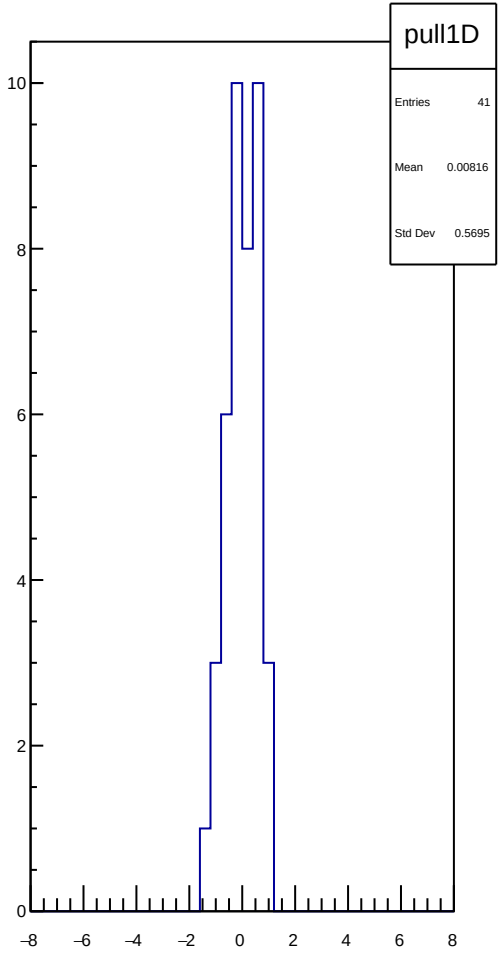

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 46.3 / 40
p0 0.3778 ± 0.729
15
10
5
0
−5
−10
−15
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −7.666
Std Dev 37.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

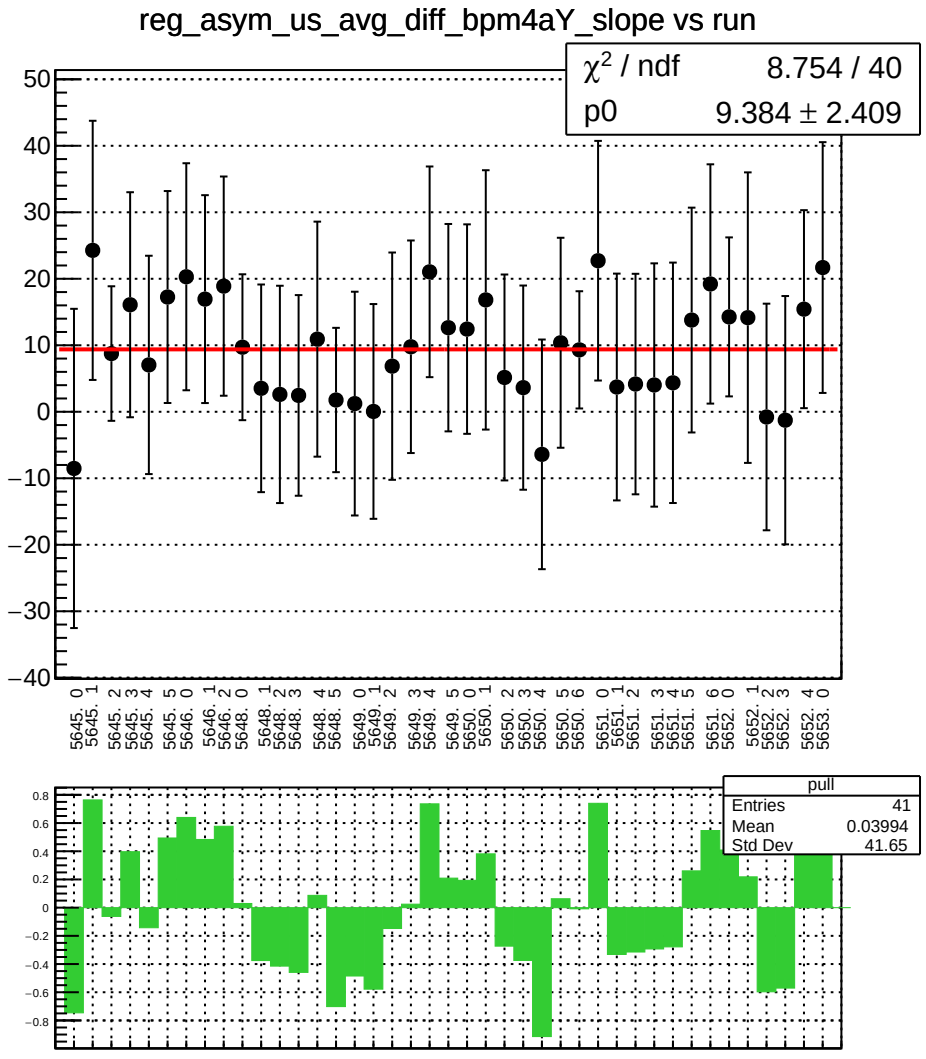

pull1D
Entries 41
Mean 0.03153
Std Dev 1.062
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

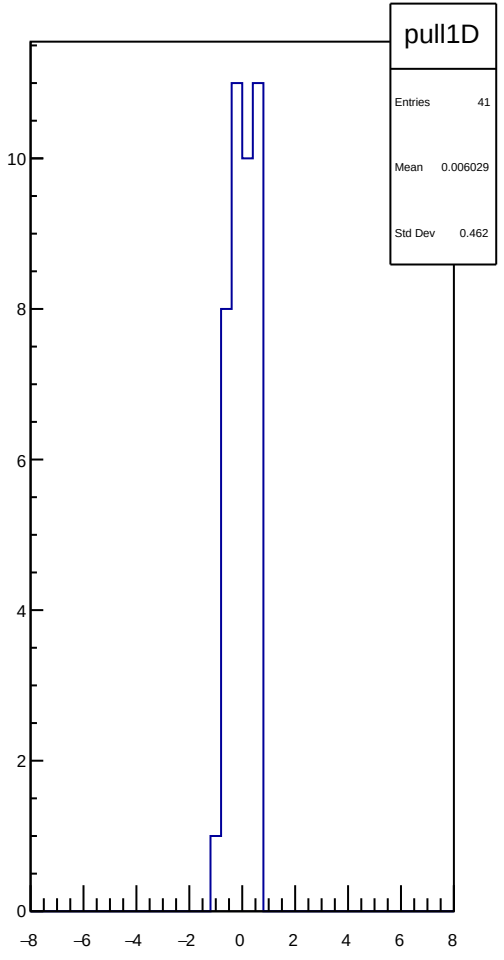

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 24.37 / 40
p0 0.02592 ± 0.02478
pull
Entries 41
Mean 106.2
Std Dev 0

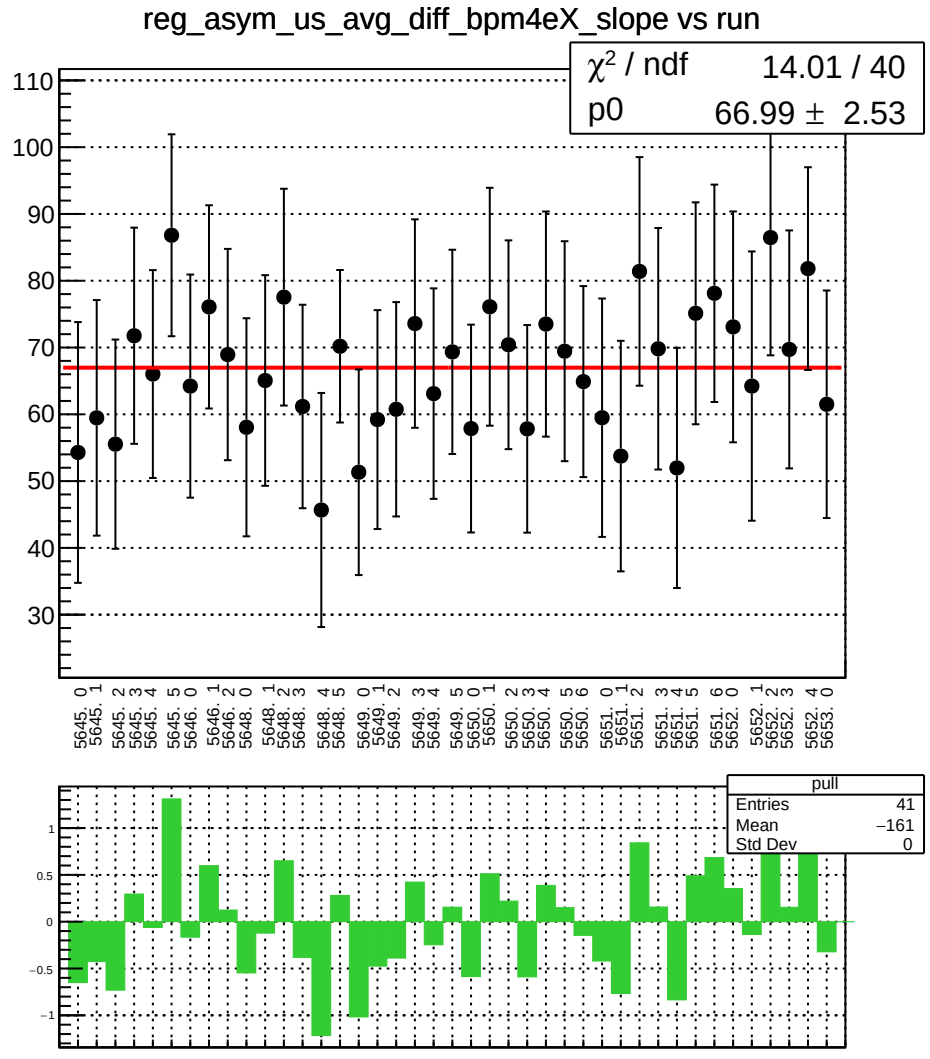

pull1D
Entries 41
Mean −0.02537
Std Dev 0.7706

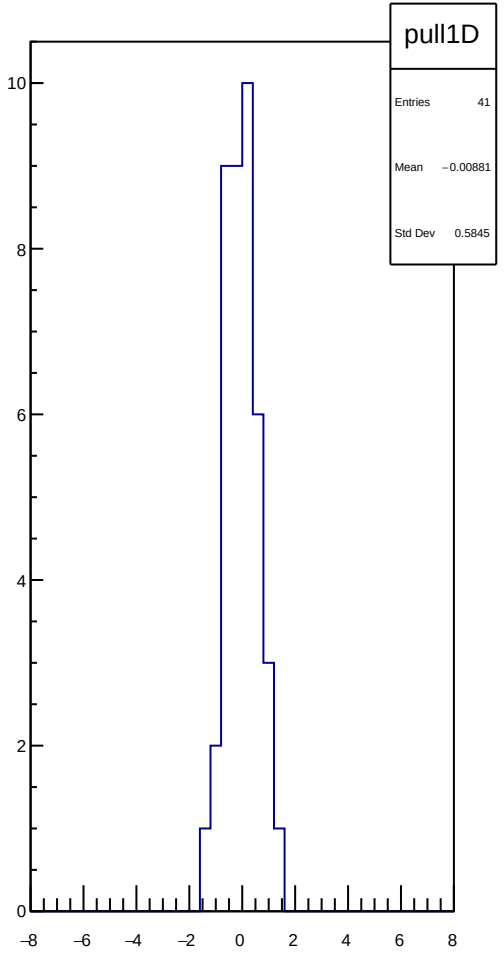

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 13.3 / 40
p0 −54.63 ± 2.93
−20
−40
−60
−80
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −186.7
Std Dev 0
1
0.5
0
−0.5
−1

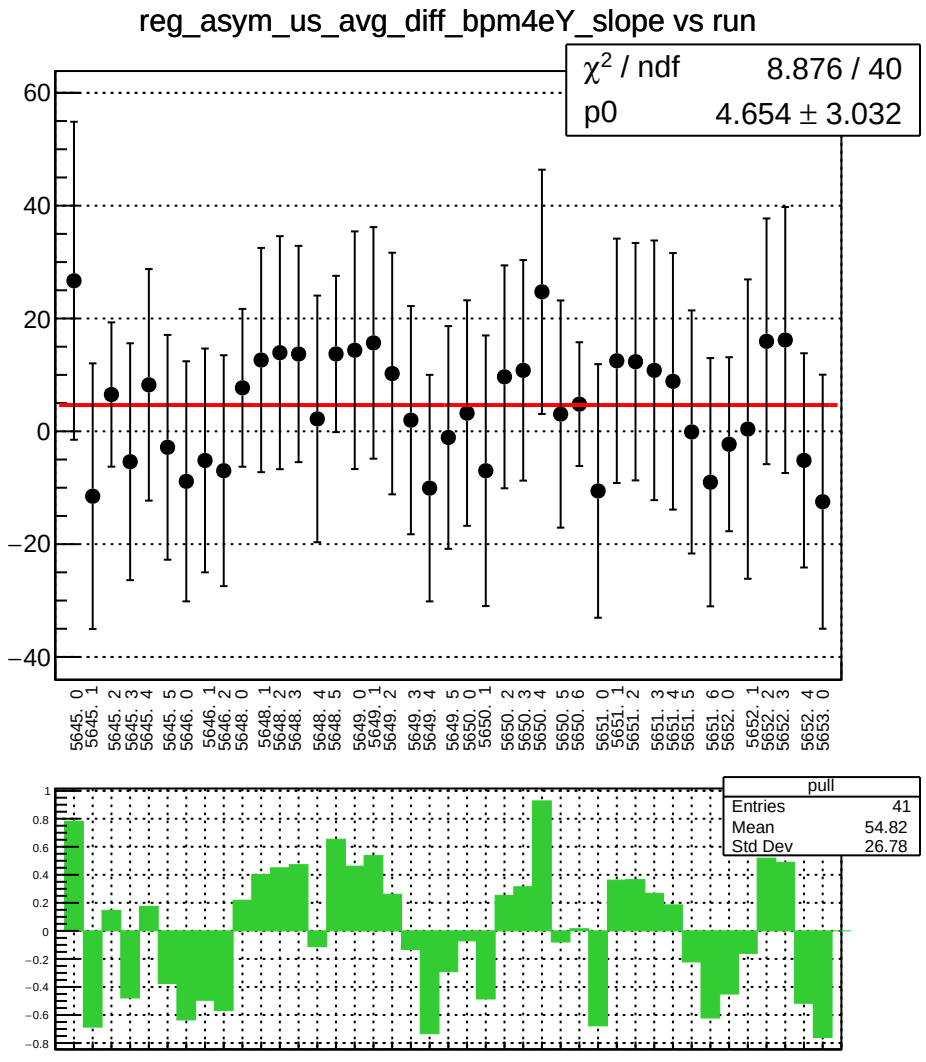

pull1D
Entries 41
Mean 0.00816
Std Dev 0.5695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

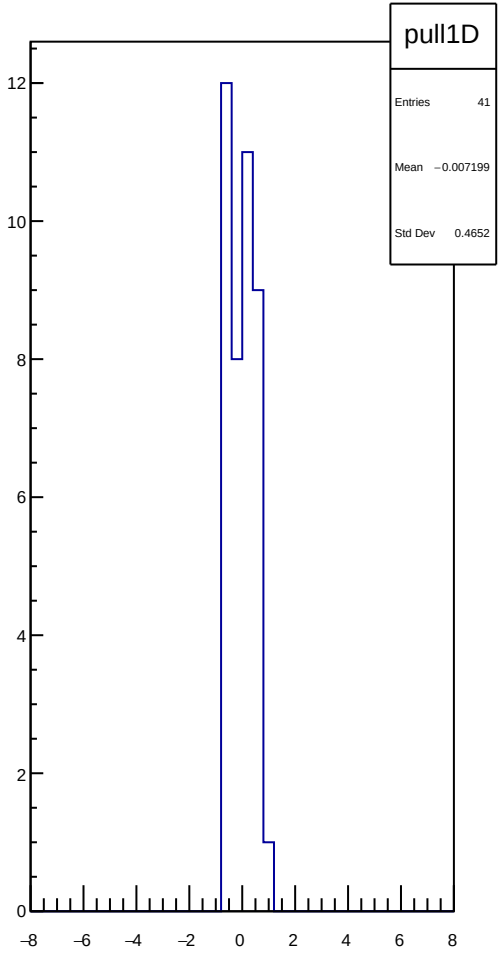

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.754 / 40
p0 9.384 ± 2.409
pull
Entries 41
Mean 0.03994
Std Dev 41.65

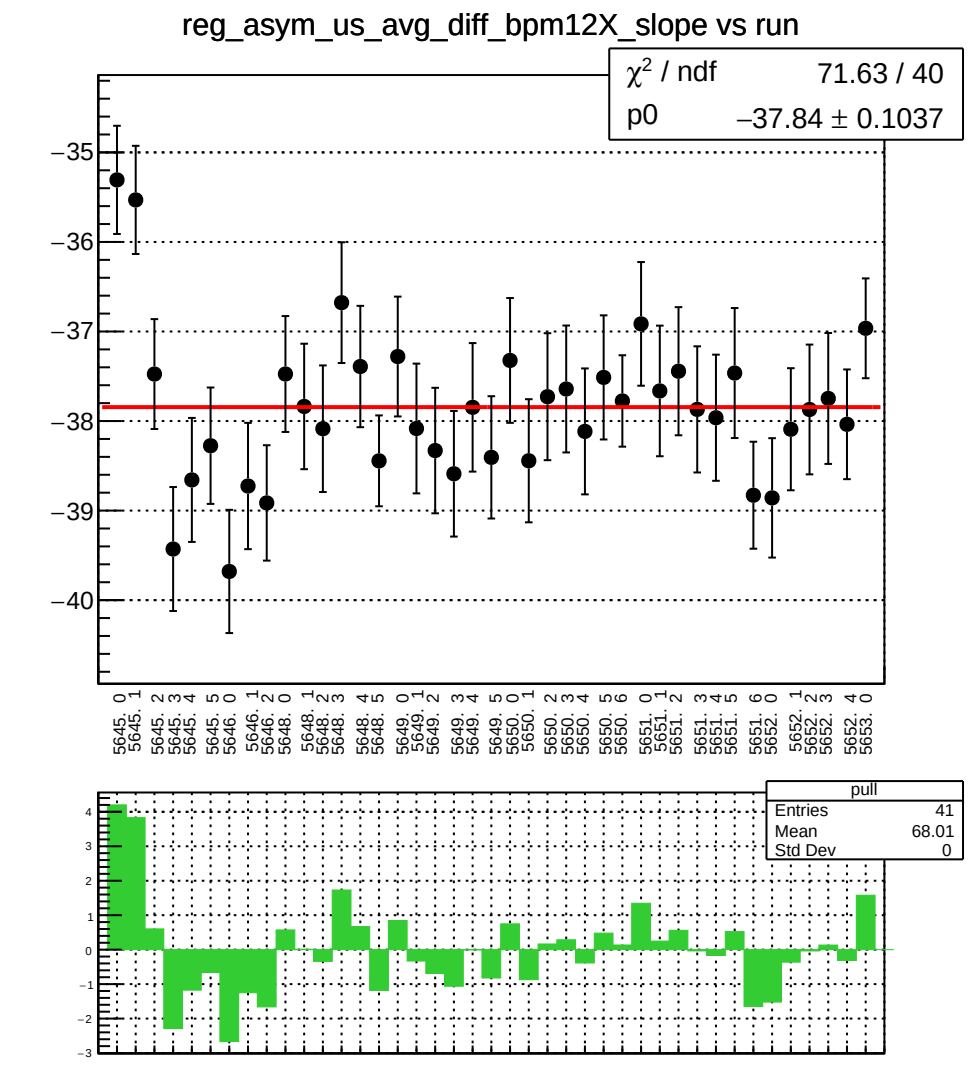

pull1D
Entries 41
Mean 0.006029
Std Dev 0.462

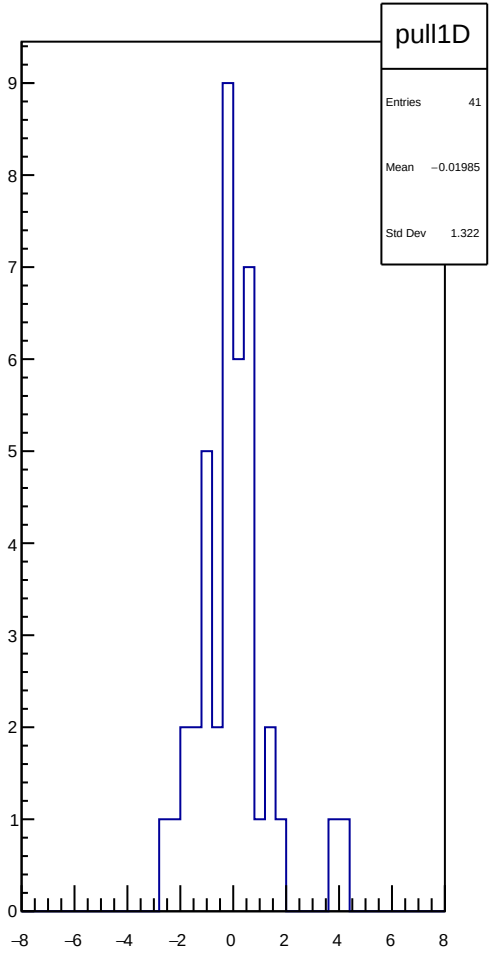

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.01 / 40
p0 66.99 ± 2.53
pull
Entries 41
Mean −161
Std Dev 0

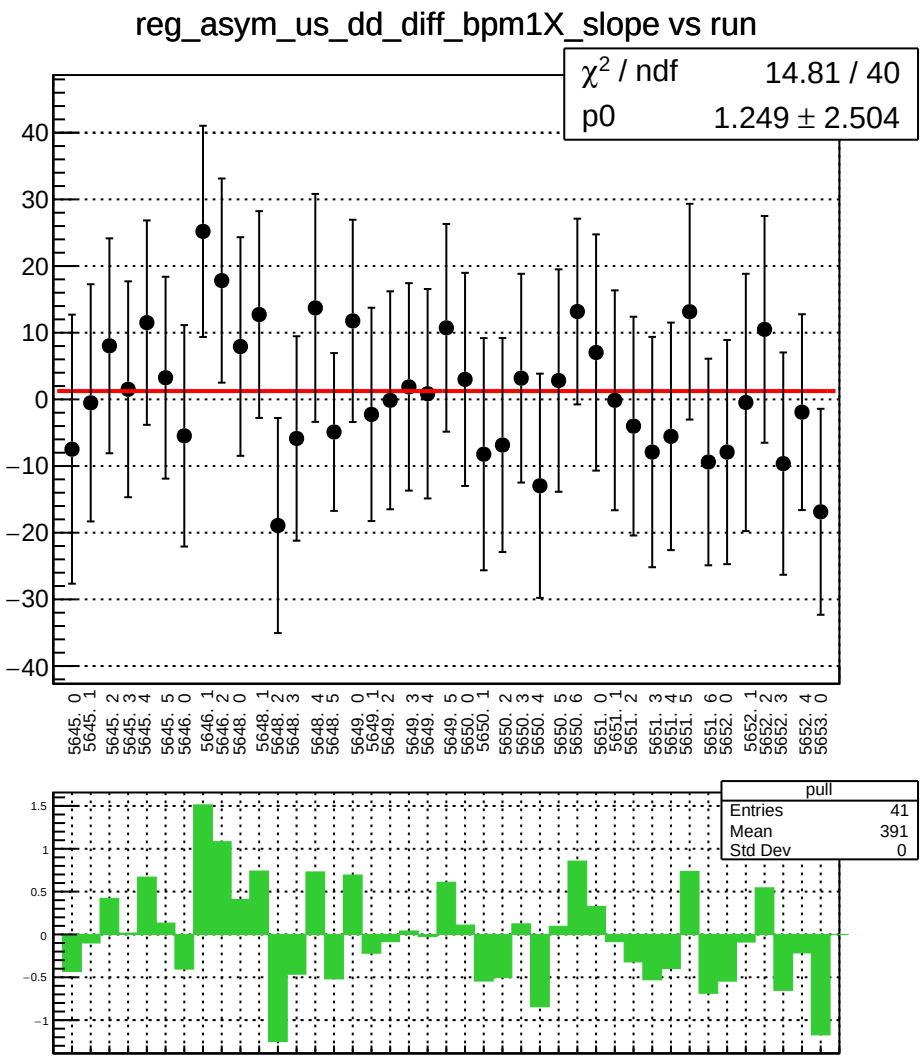

pull1D
Entries 41
Mean −0.00881
Std Dev 0.5845

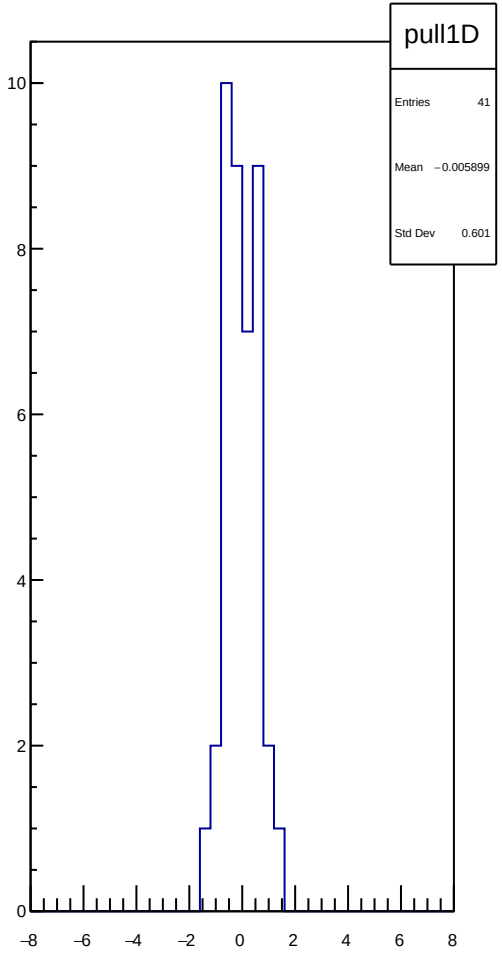

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.876 / 40
p0 4.654 ± 3.032
pull
Entries 41
Mean 54.82
Std Dev 26.78

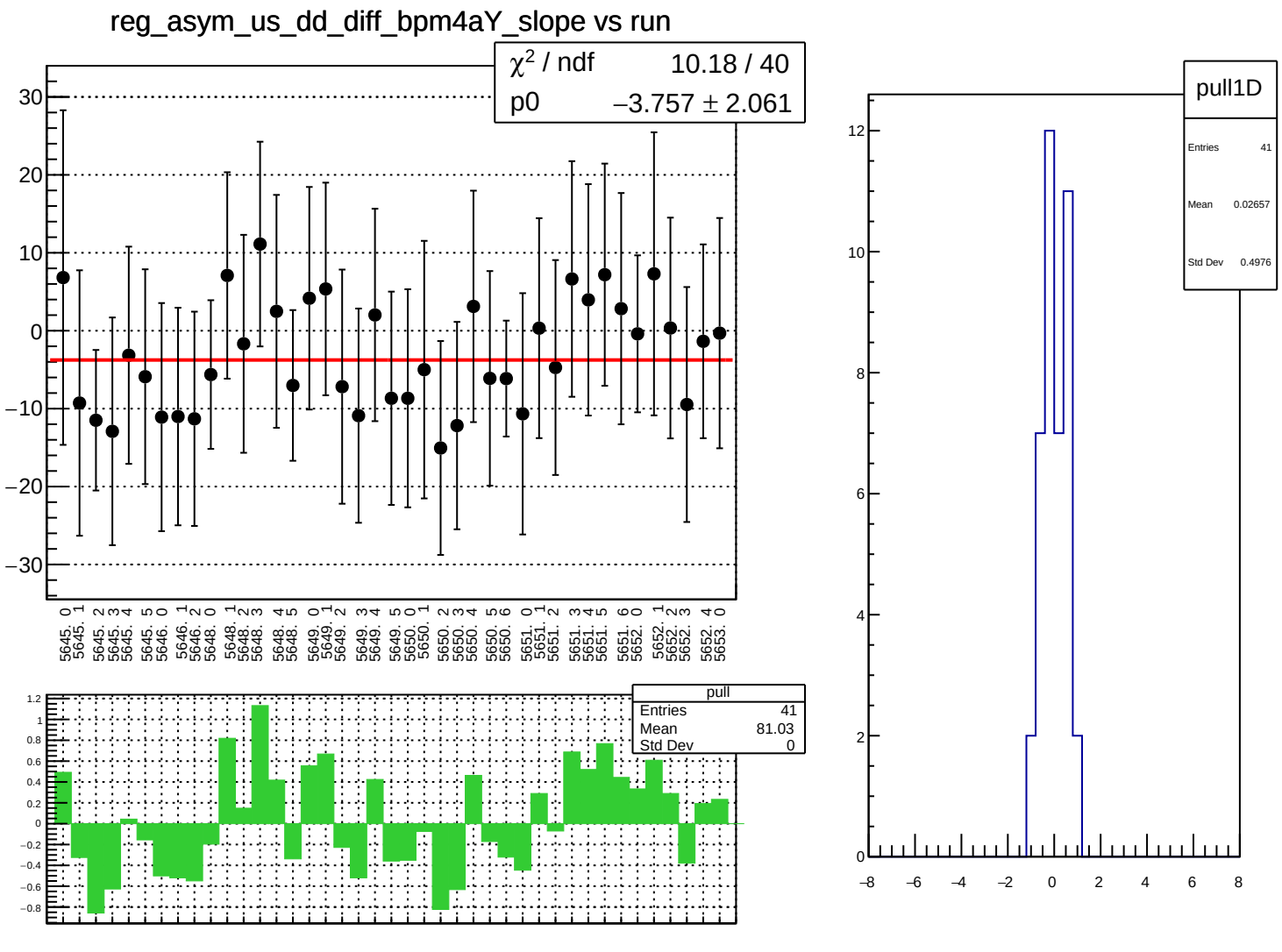

pull1D
Entries 41
Mean −0.007199
Std Dev 0.4652

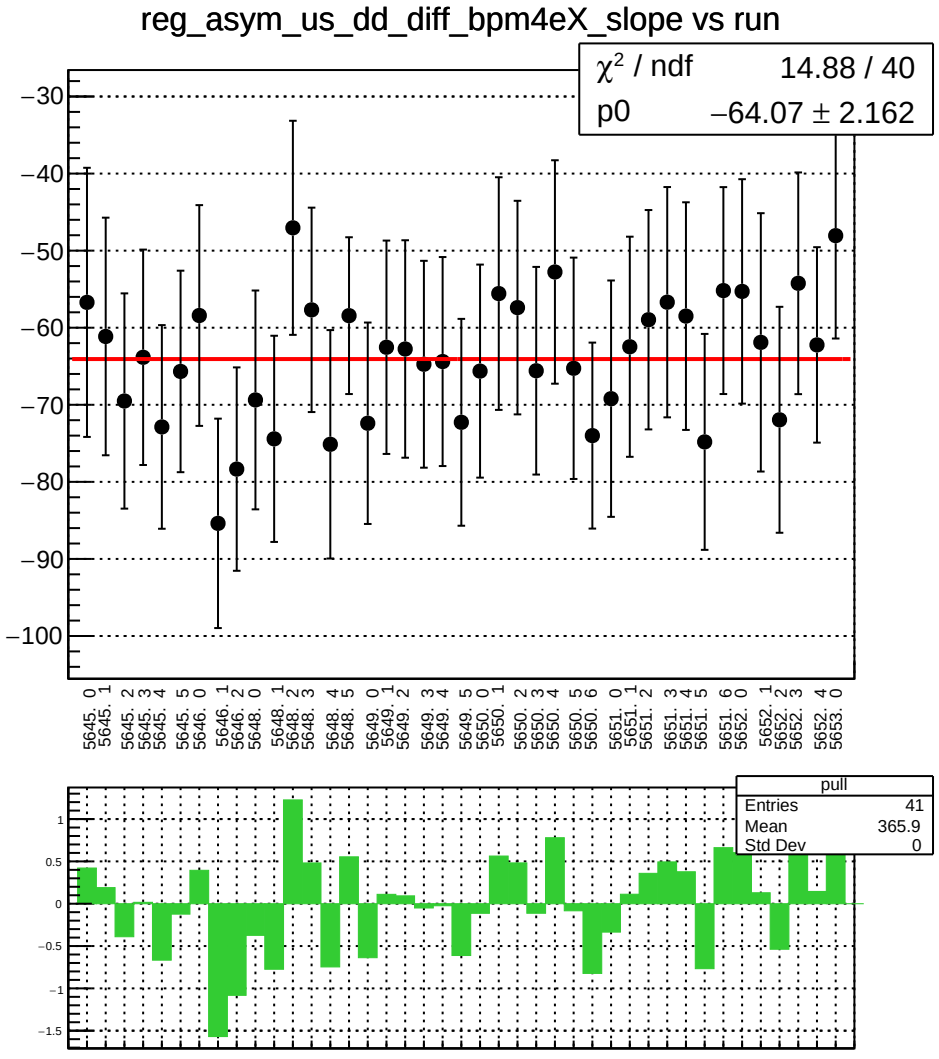

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 71.63 / 40
p0 −37.84 ± 0.1037
pull
Entries 41
Mean 68.01
Std Dev 0

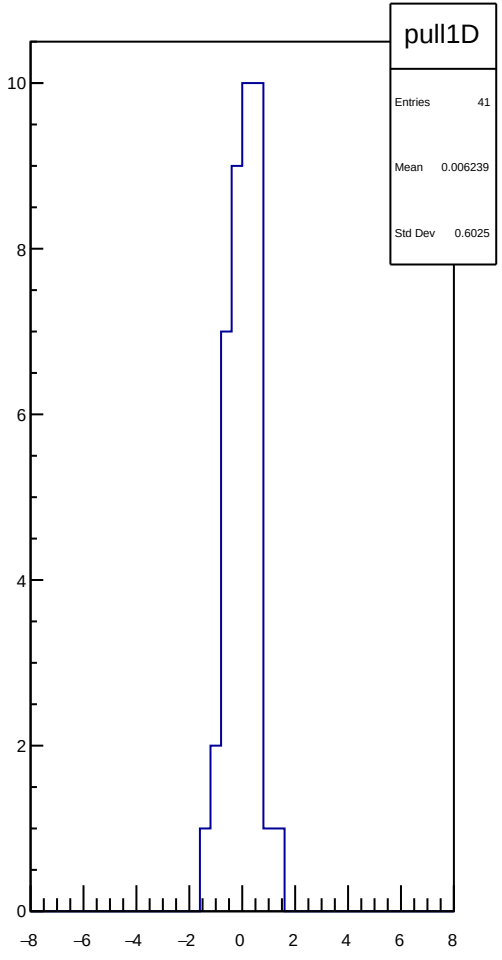

pull1D
Entries 41
Mean −0.01985
Std Dev 1.322

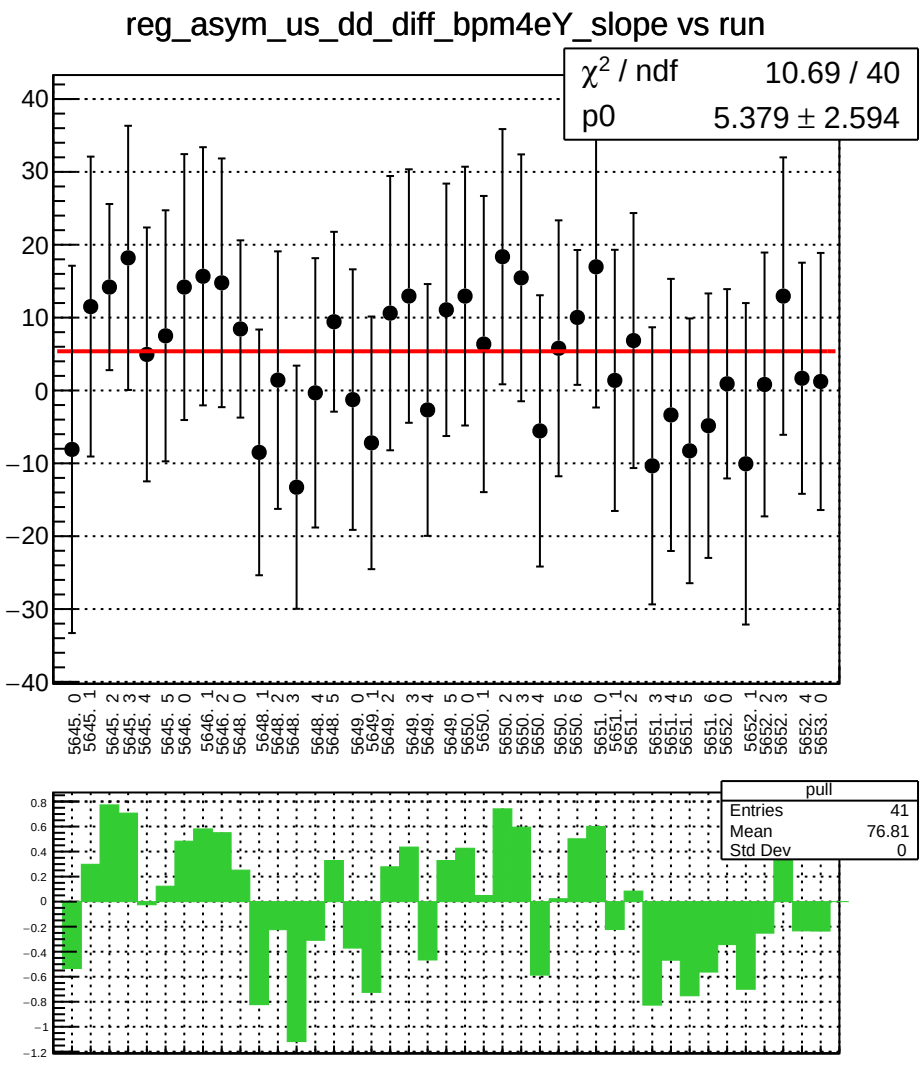

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 14.81 / 40
p0 1.249 ± 2.504
pull
Entries 41
Mean 391
Std Dev 0

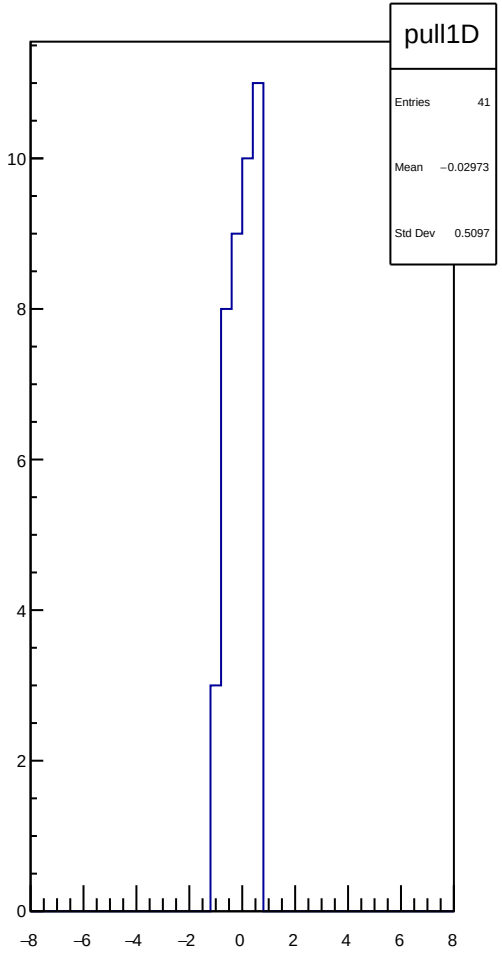

pull1D
Entries 41
Mean −0.005899
Std Dev 0.601

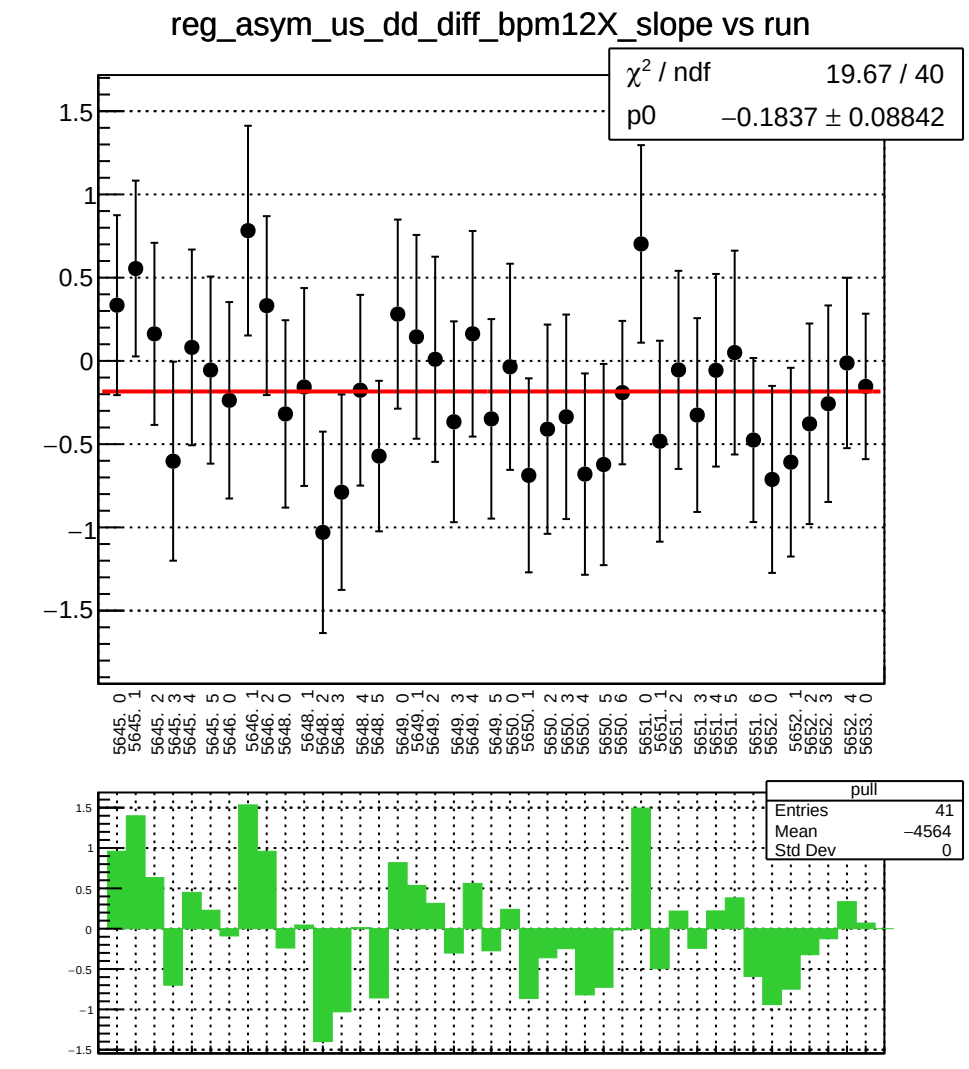

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.18 / 40
p0 −3.757 ± 2.061
pull
Entries 41
Mean 81.03
Std Dev 0
pull1D
Entries 41
Mean 0.02657
Std Dev 0.4976

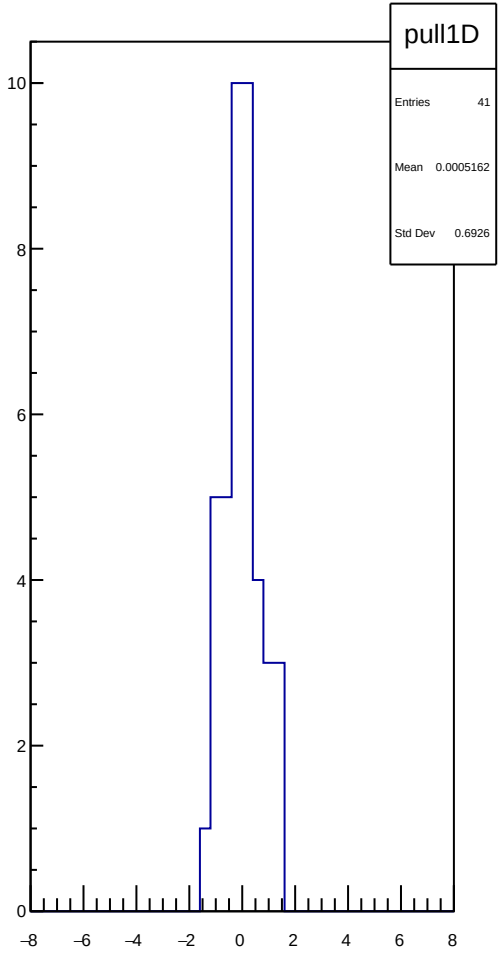

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.88 / 40
p0 −64.07 ± 2.162
pull
Entries 41
Mean 365.9
Std Dev 0

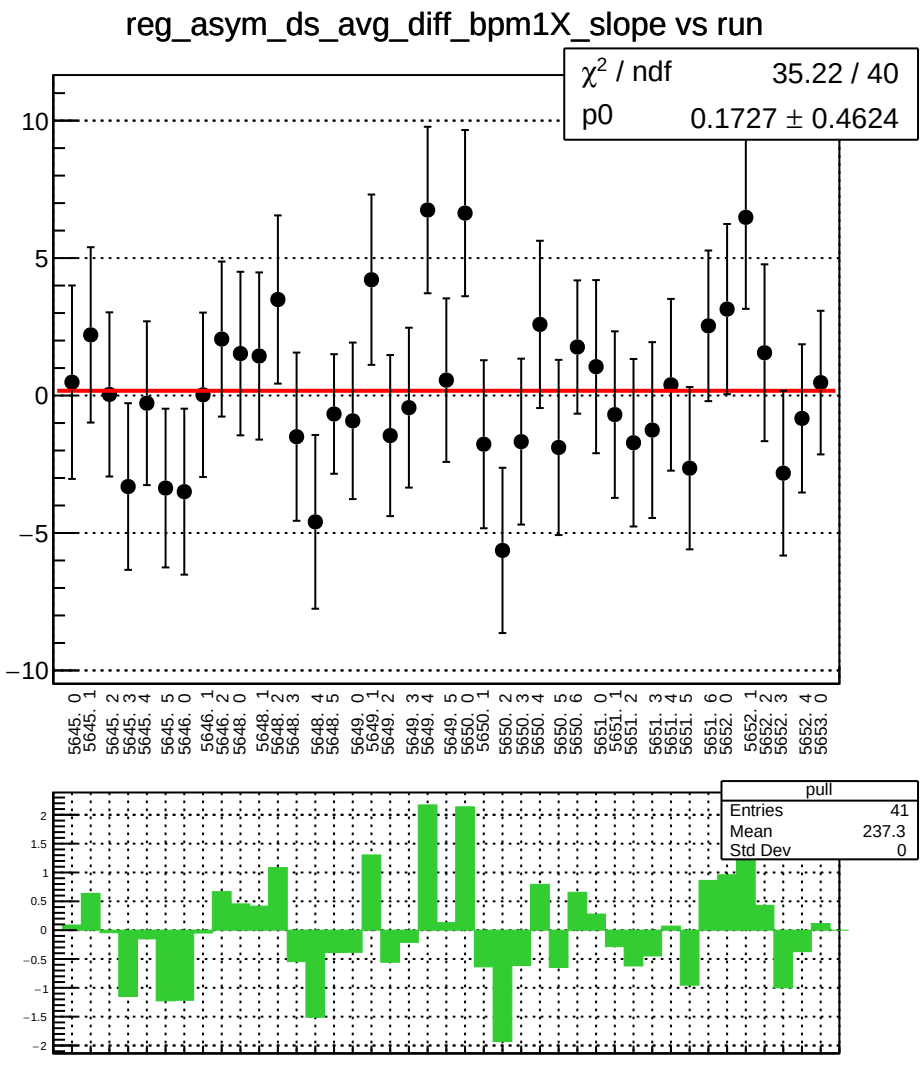

pull1D
Entries 41
Mean 0.006239
Std Dev 0.6025

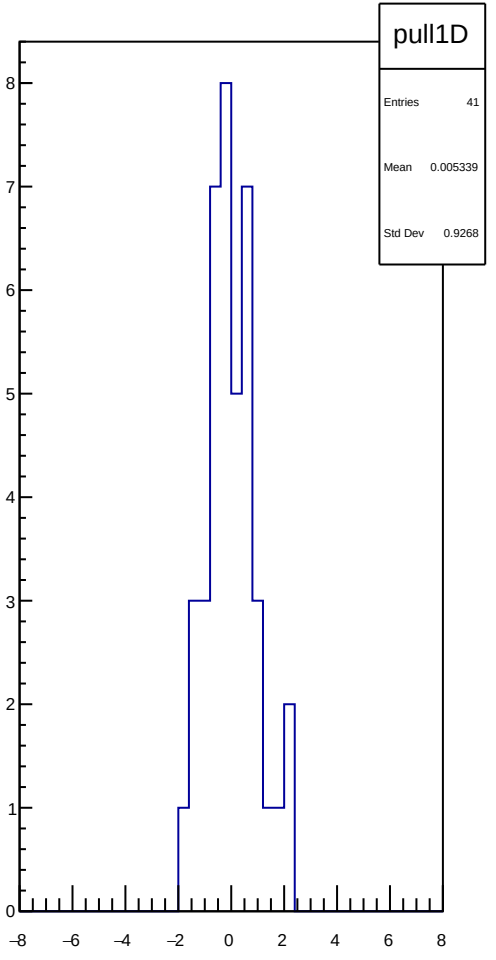

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.69 / 40
p0 5.379 ± 2.594
pull
Entries 41
Mean 76.81
Std Dev 0

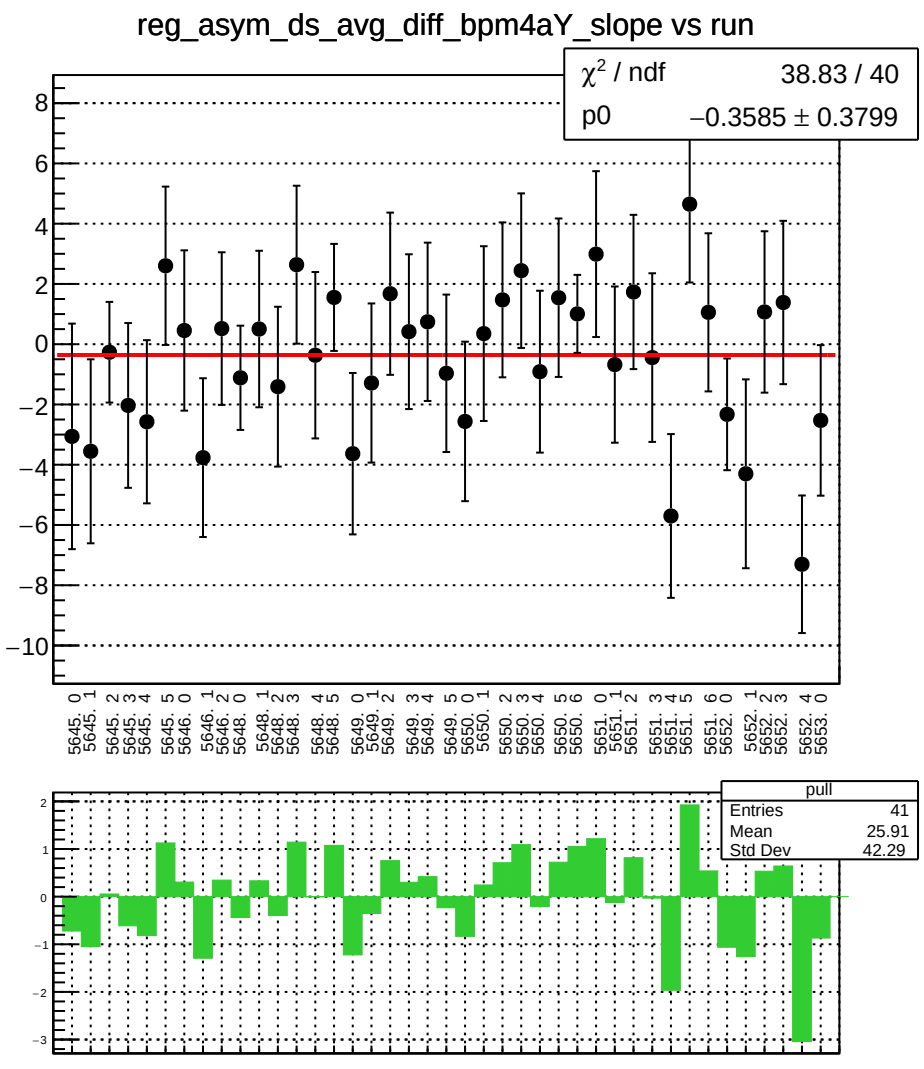

pull1D
Entries 41
Mean −0.02973
Std Dev 0.5097

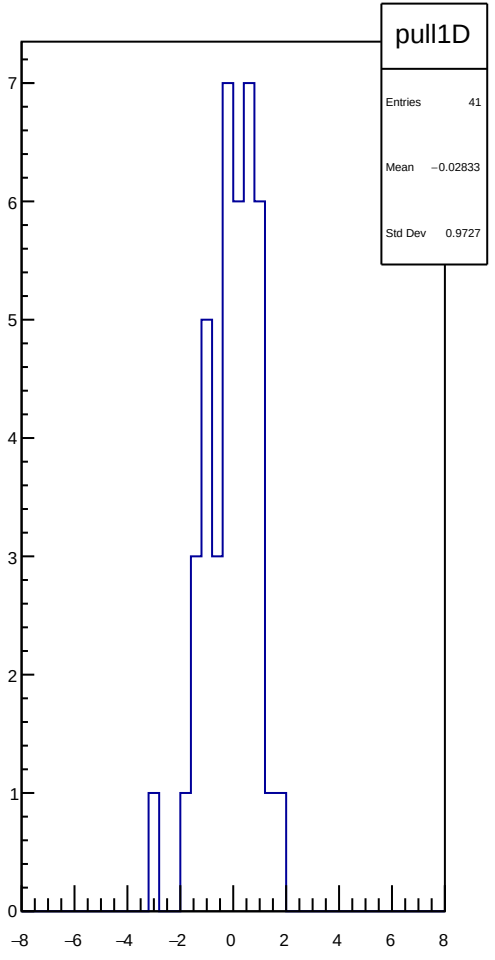

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 19.67 / 40
p0 −0.1837 ± 0.08842
pull
Entries 41
Mean −4564
Std Dev 0

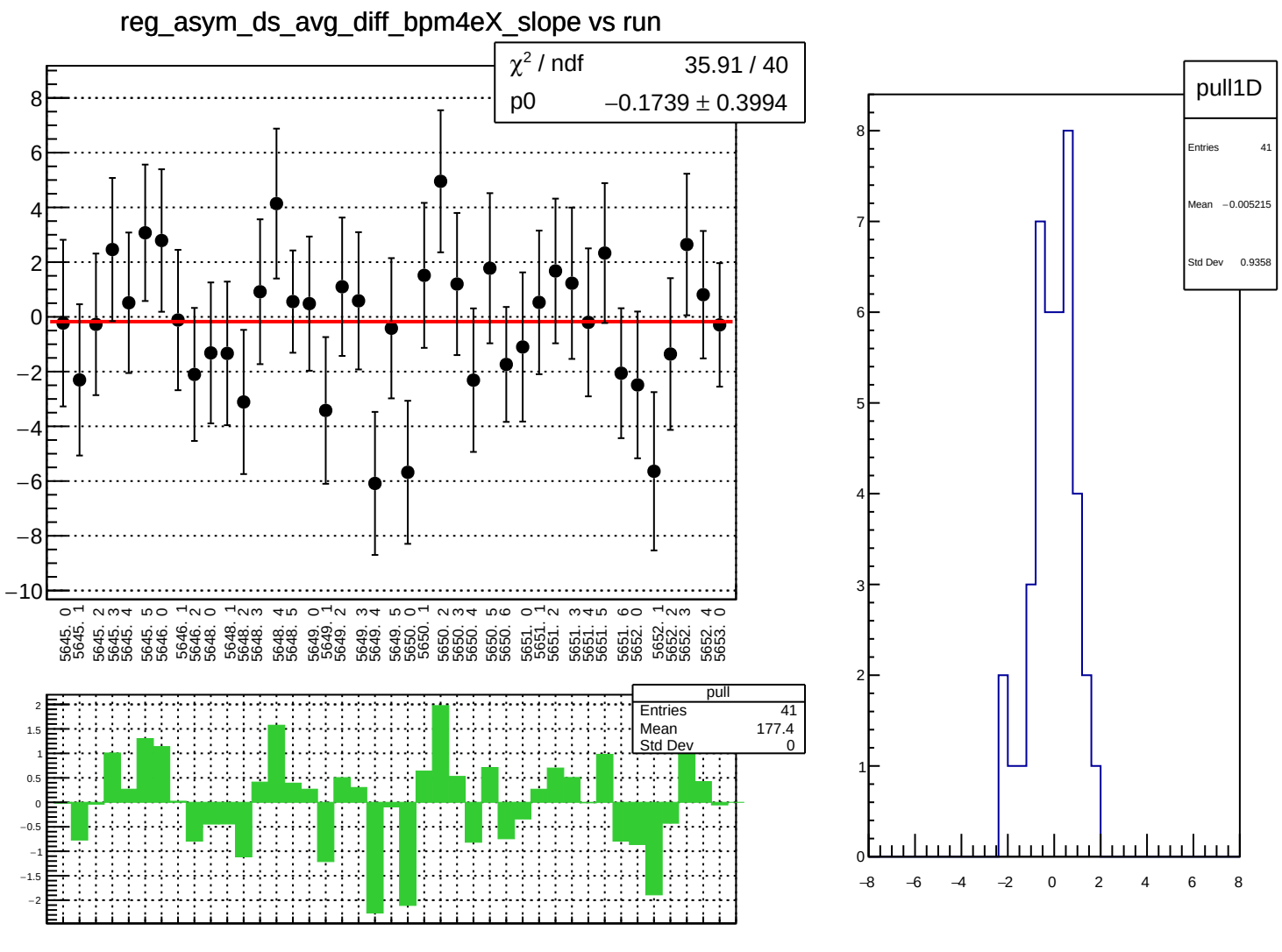

pull1D
Entries 41
Mean 0.0005162
Std Dev 0.6926

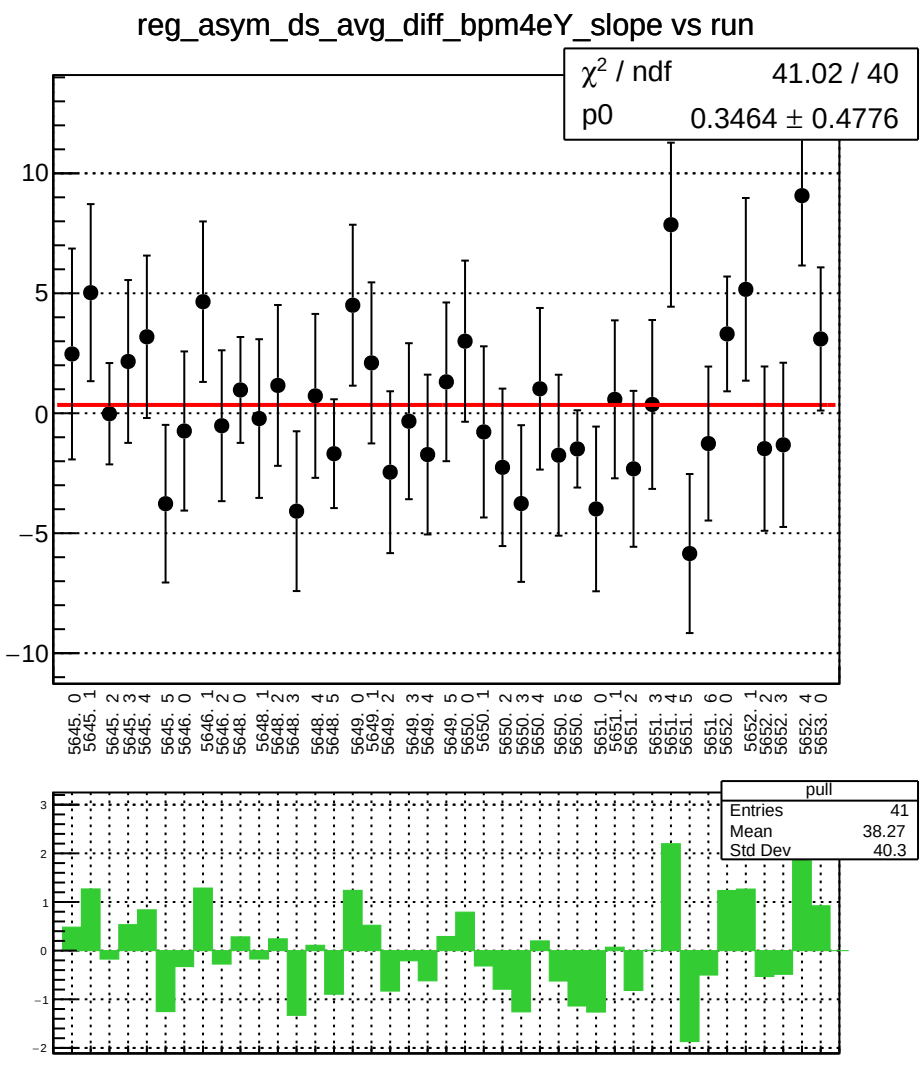

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 35.22 / 40
p0 0.1727 ± 0.4624
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 237.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

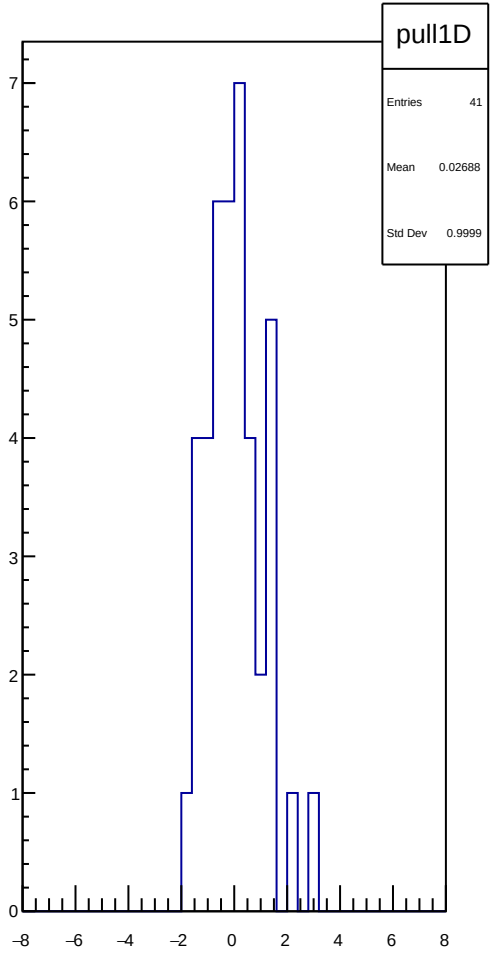

pull1D
Entries 41
Mean 0.005339
Std Dev 0.9268
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

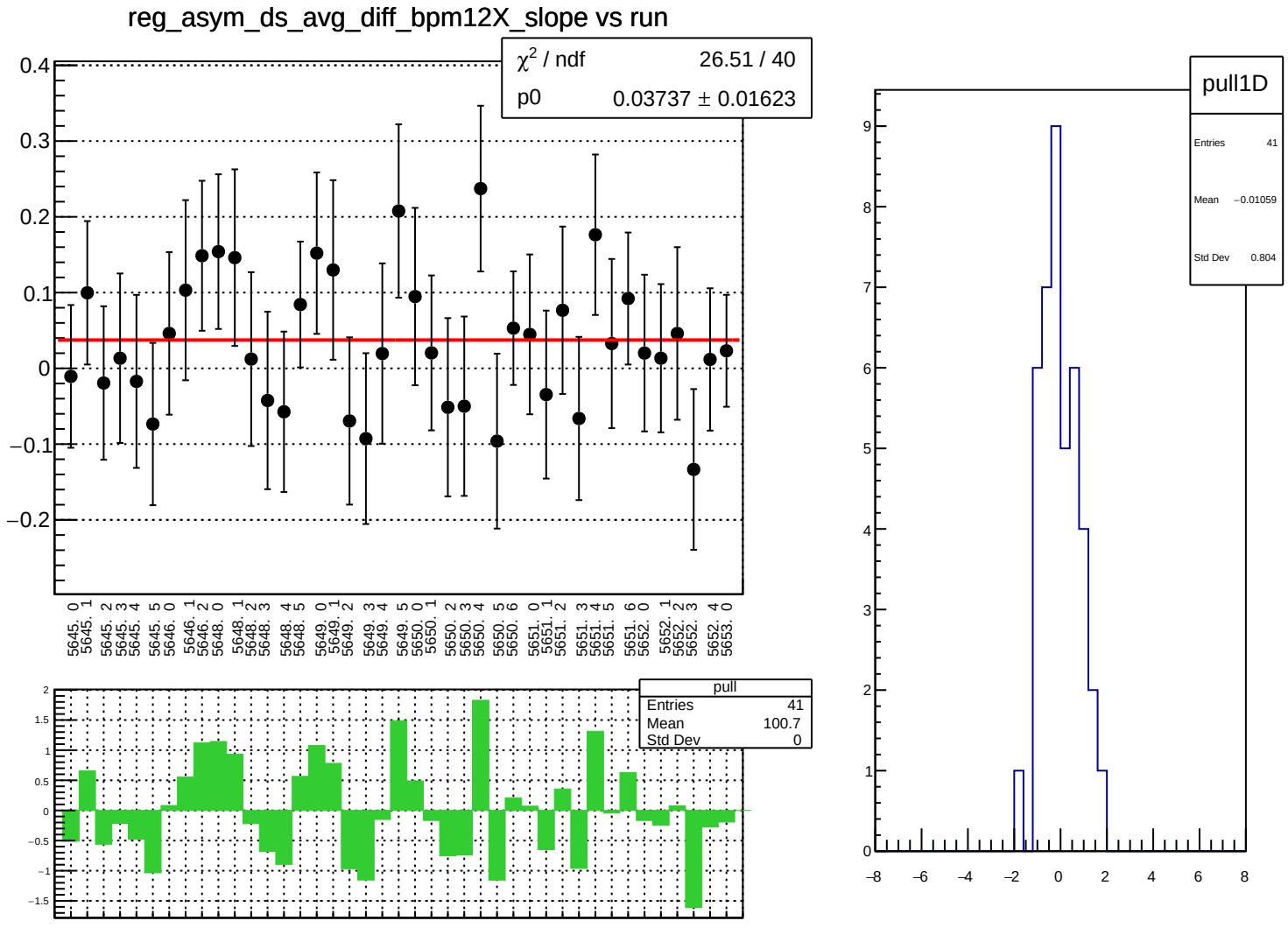

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.83 / 40
p0 −0.3585 ± 0.3799
pull
Entries 41
Mean 25.91
Std Dev 42.29

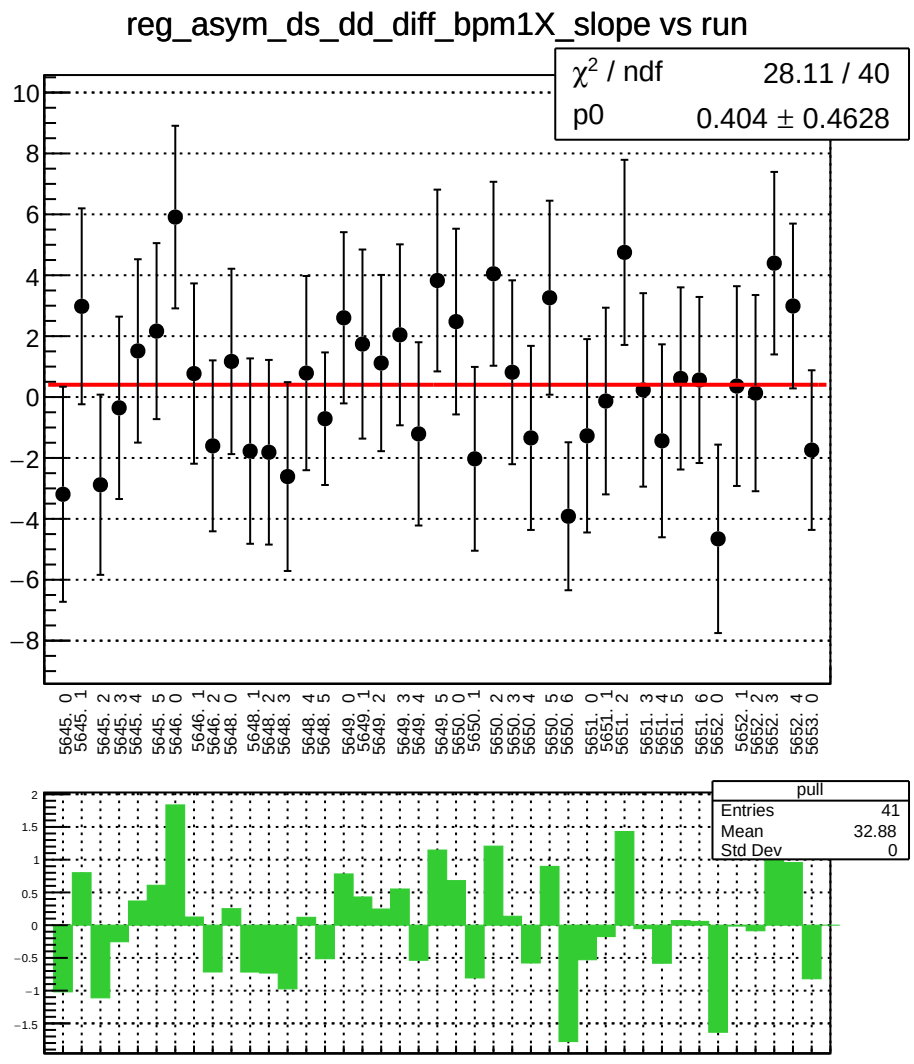

pull1D
Entries 41
Mean −0.02833
Std Dev 0.9727

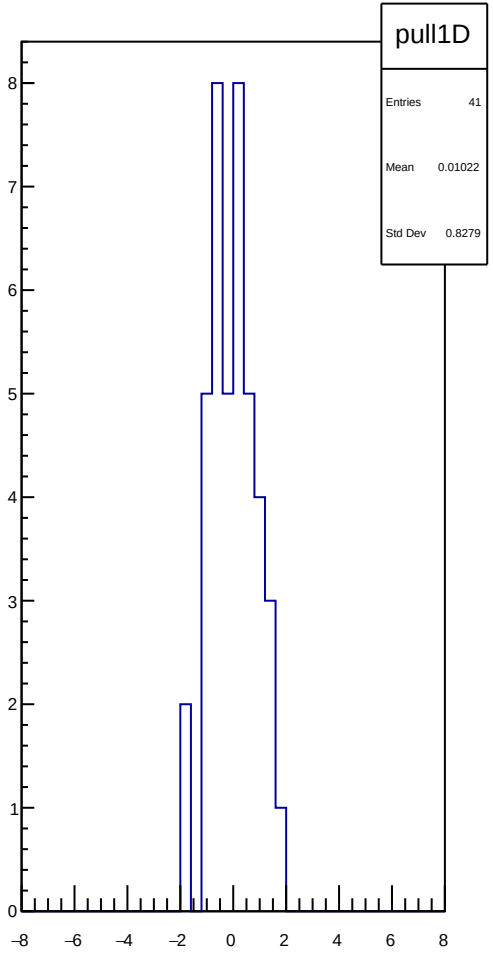

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.91 / 40
p0 −0.1739 ± 0.3994
pull
Entries 41
Mean 177.4
Std Dev 0
pull1D
Entries 41
Mean −0.005215
Std Dev 0.9358

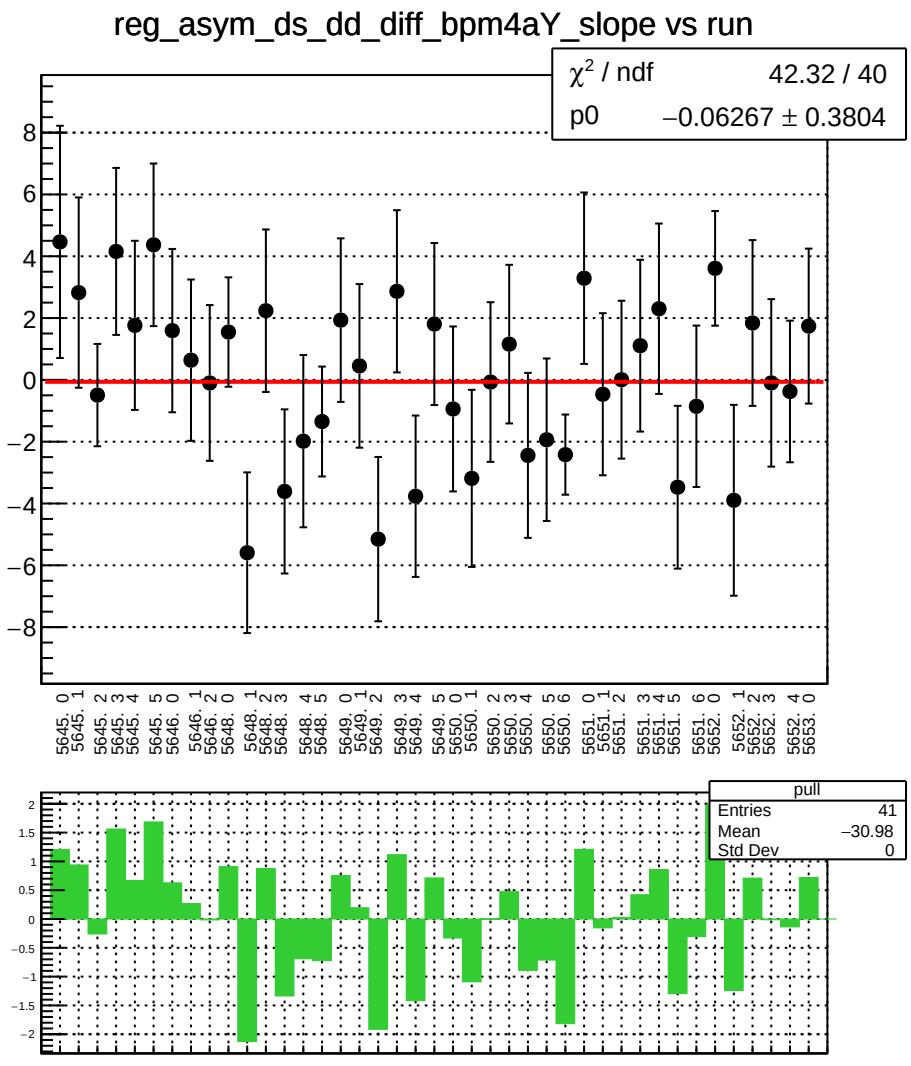

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.02 / 40
p0 0.3464 ± 0.4776
10
5
0
−5
−10
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 38.27
Std Dev 40.3
3
2
1
0
−1
−2

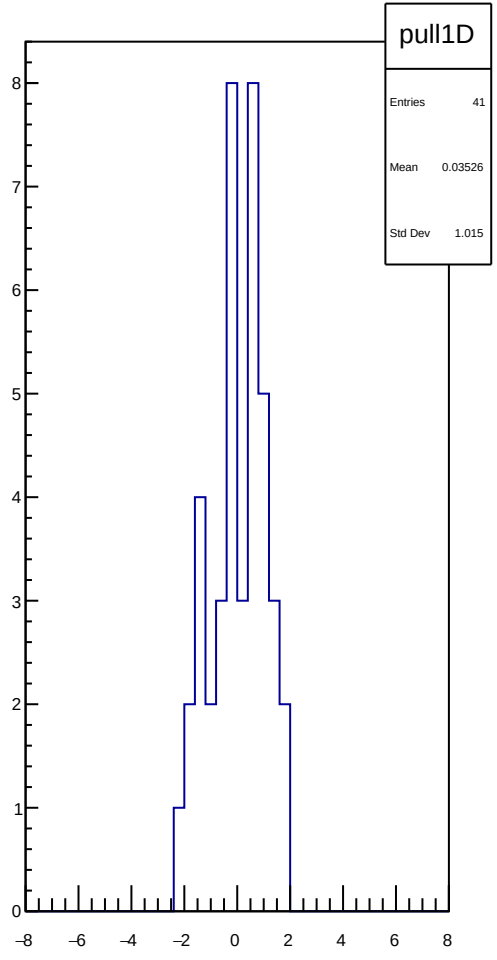

pull1D
Entries 41
Mean 0.02688
Std Dev 0.9999
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

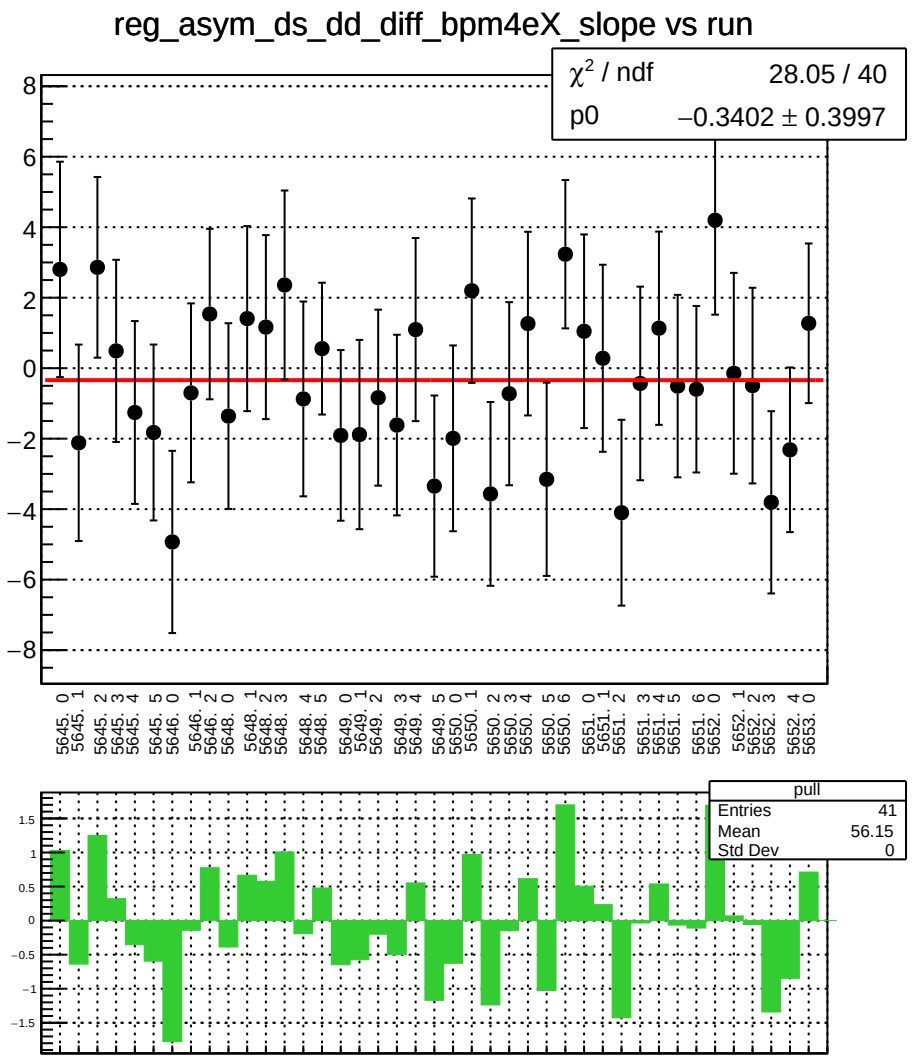

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 26.51 / 40
p0 0.03737 ± 0.01623
pull
Entries 41
Mean 100.7
Std Dev 0
pull1D
Entries 41
Mean −0.01059
Std Dev 0.804

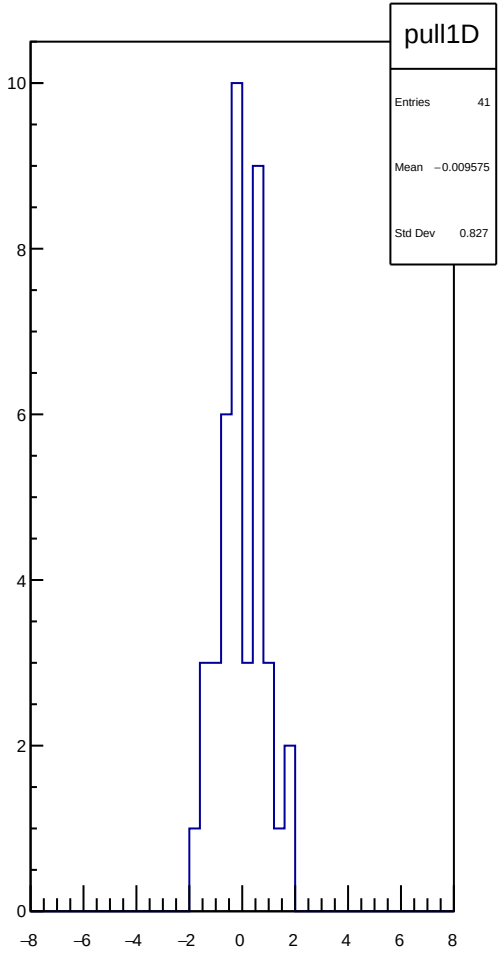

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 28.11 / 40
p0 0.404 ± 0.4628
pull
Entries 41
Mean 32.88
Std Dev 0

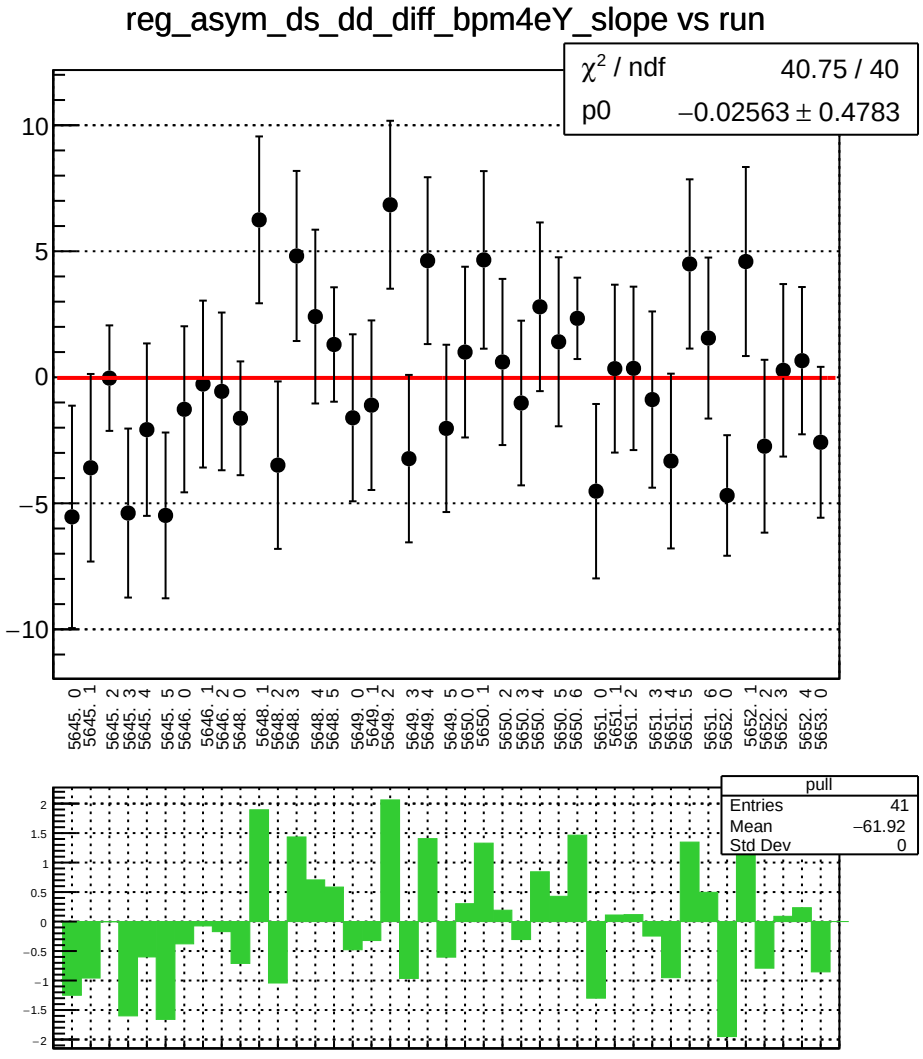

pull1D
Entries 41
Mean 0.01022
Std Dev 0.8279

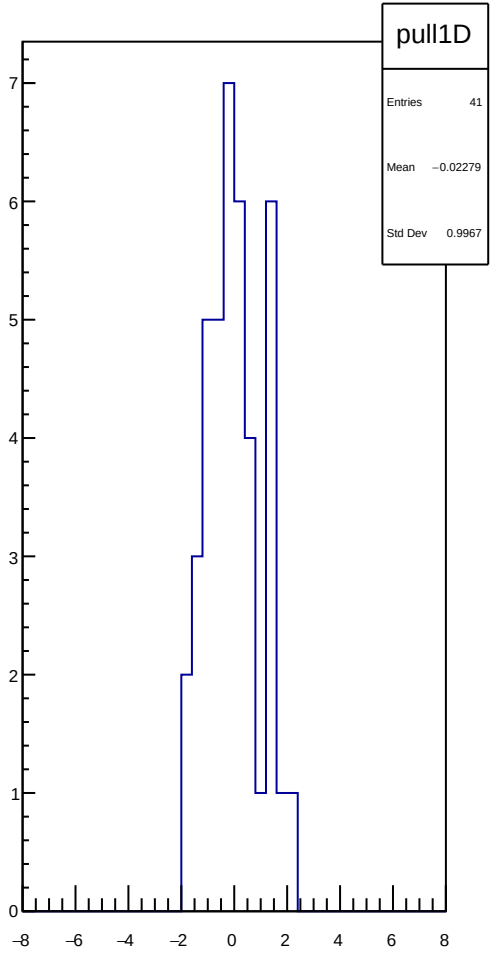

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.32 / 40
p0 −0.06267 ± 0.3804
pull
Entries 41
Mean −30.98
Std Dev 0

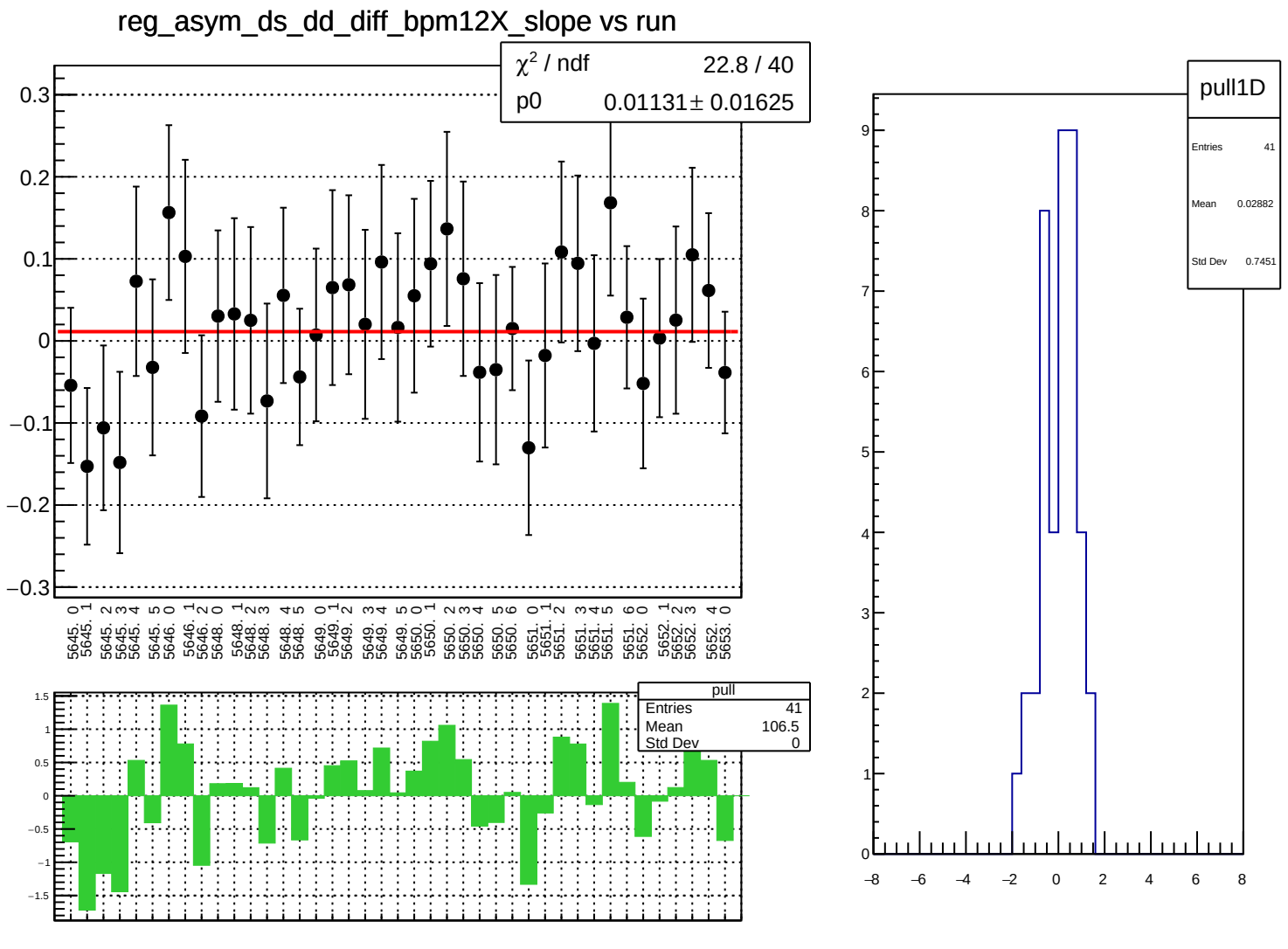

pull1D
Entries 41
Mean 0.03526
Std Dev 1.015

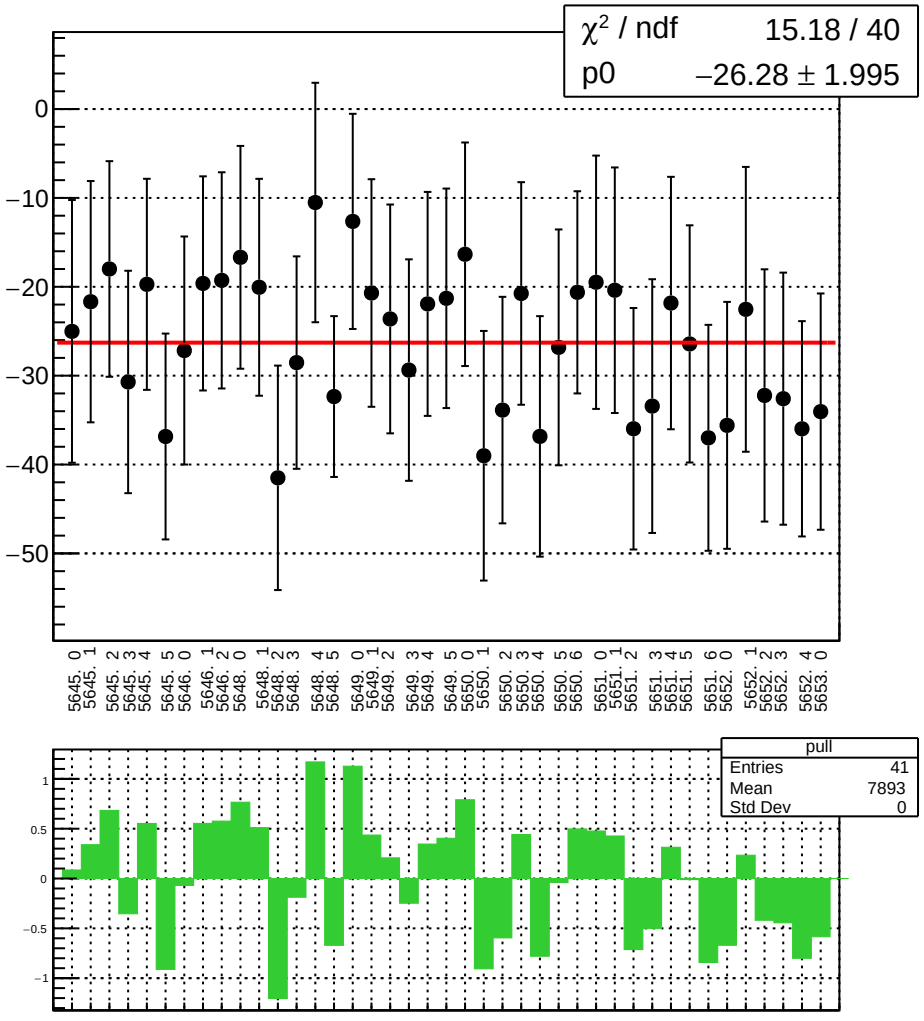

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.05 / 40
p0 −0.3402 ± 0.3997
pull
Entries 41
Mean 56.15
Std Dev 0

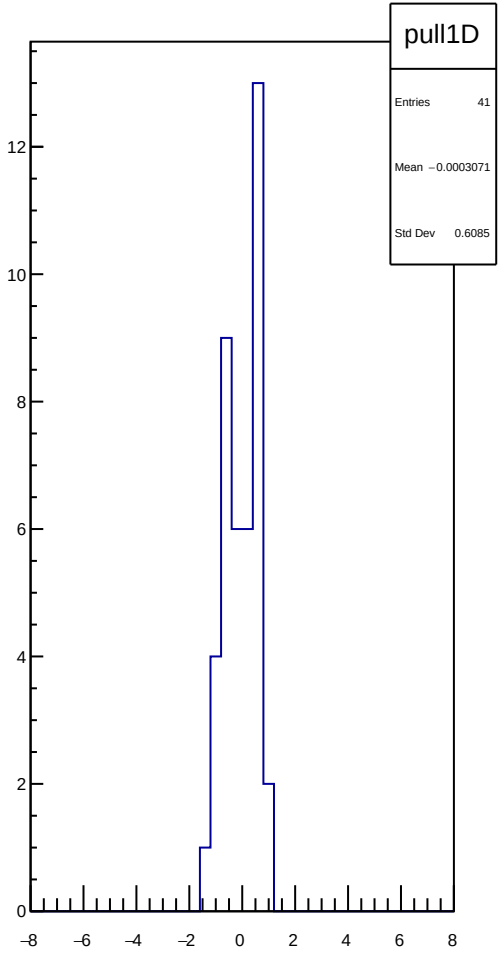

pull1D
Entries 41
Mean −0.009575
Std Dev 0.827

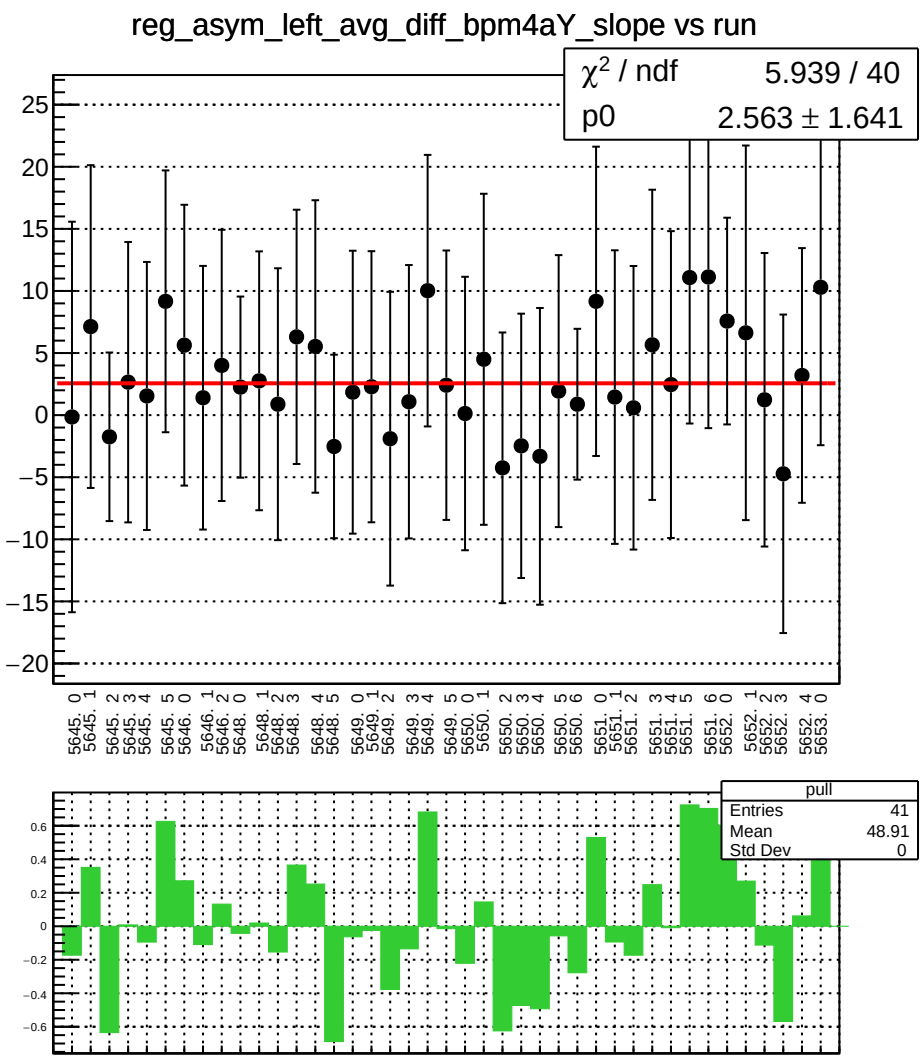

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.75 / 40
p0 −0.02563 ± 0.4783
pull
Entries 41
Mean −61.92
Std Dev 0

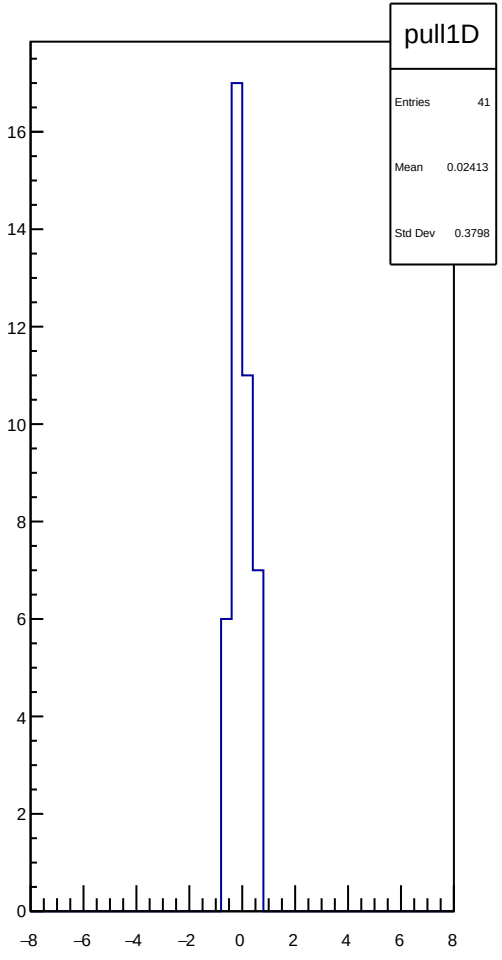

pull1D
Entries 41
Mean −0.02279
Std Dev 0.9967

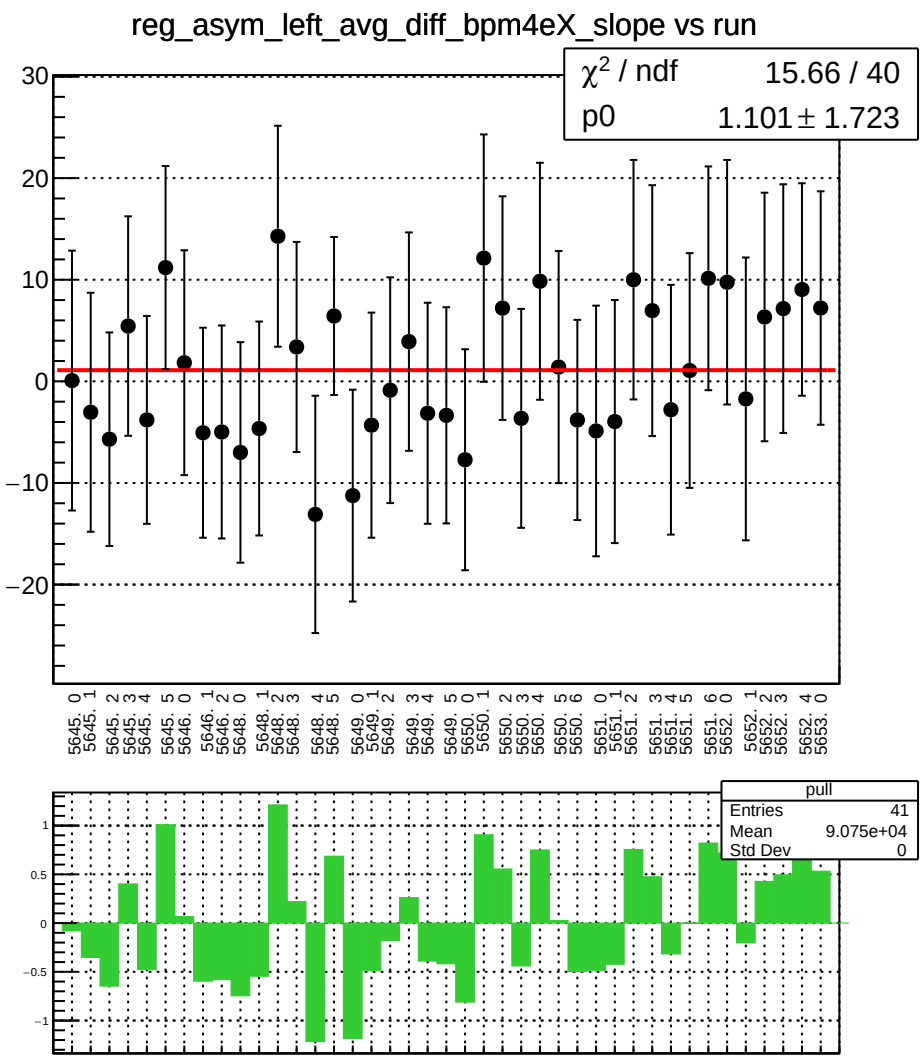

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 22.8 / 40
p0 0.01131 ± 0.01625
pull
Entries 41
Mean 106.5
Std Dev 0
pull1D
Entries 41
Mean 0.02882
Std Dev 0.7451

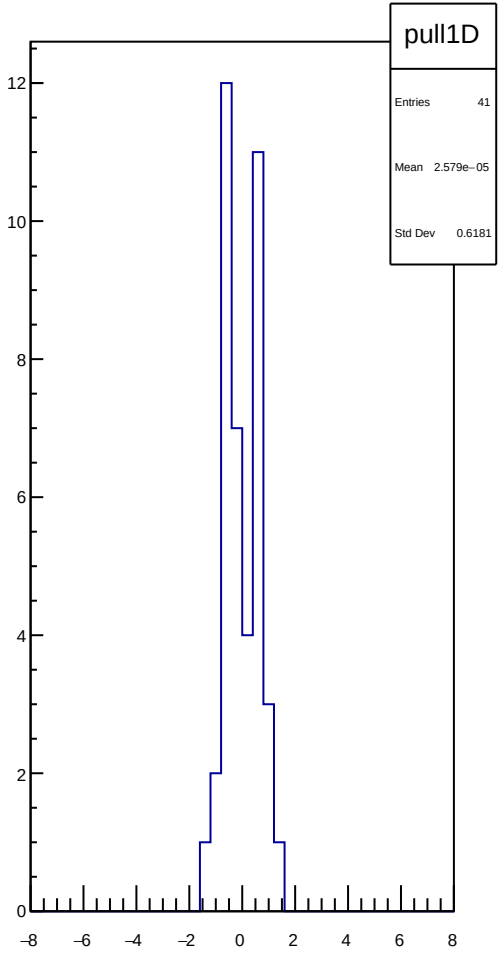

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 15.18 / 40
p0 −26.28 ± 1.995
0
−10
−20
−30
−40
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 7893
Std Dev 0
1
0.5
0
−0.5
−1

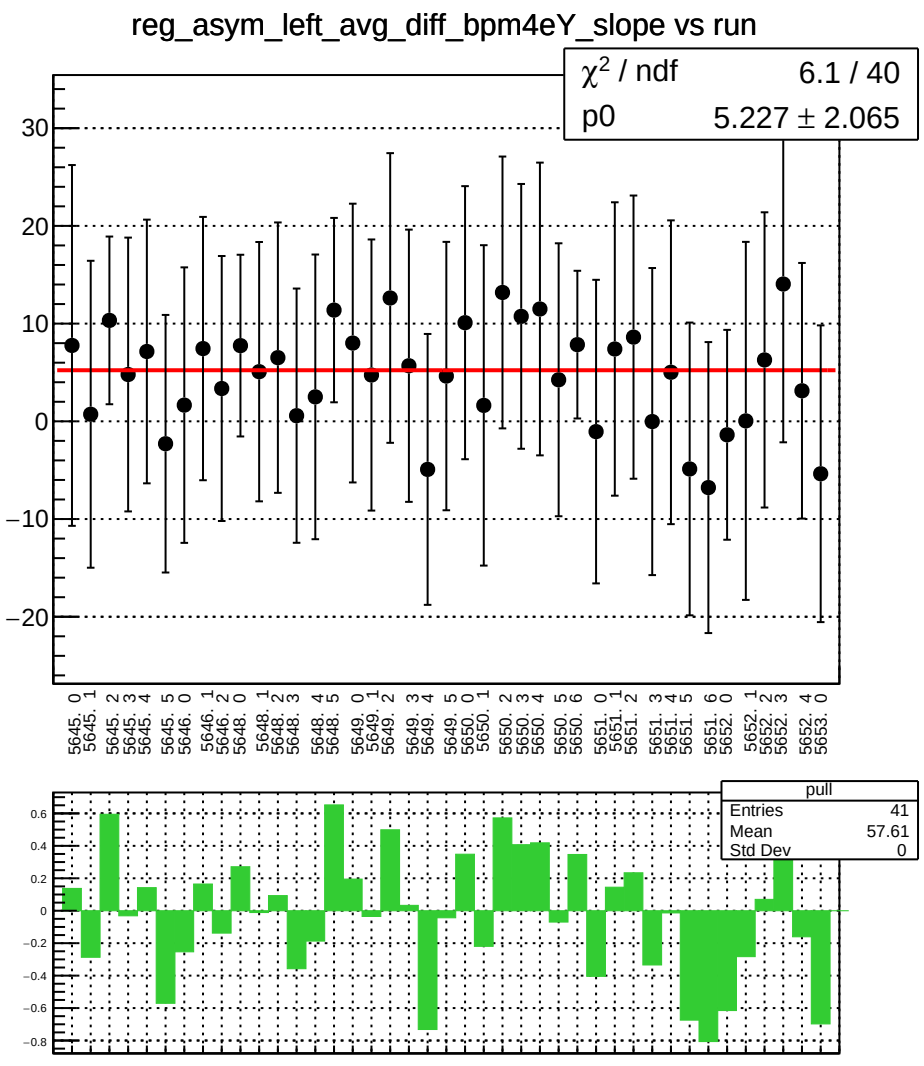

pull1D
Entries 41
Mean −0.0003071
Std Dev 0.6085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

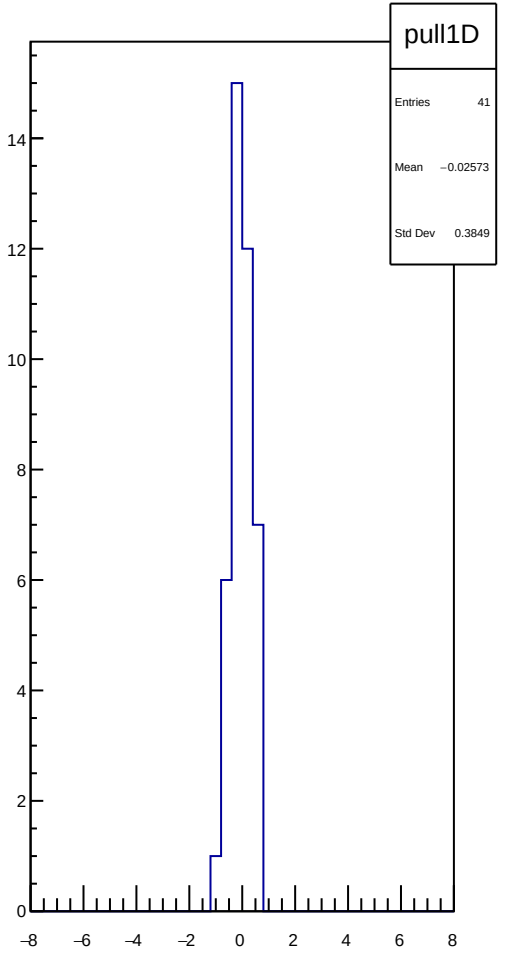

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.939 / 40
p0 2.563 ± 1.641
pull
Entries 41
Mean 48.91
Std Dev 0

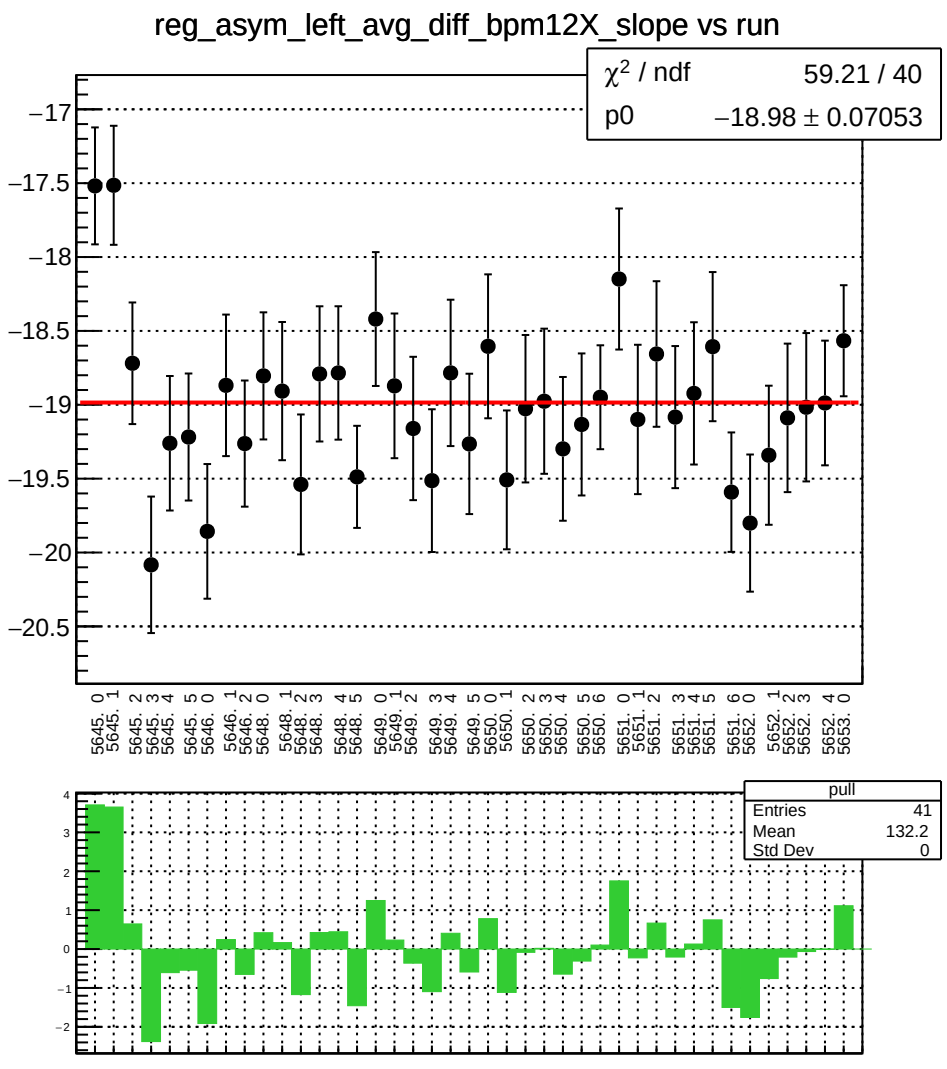

pull1D
Entries 41
Mean 0.02413
Std Dev 0.3798

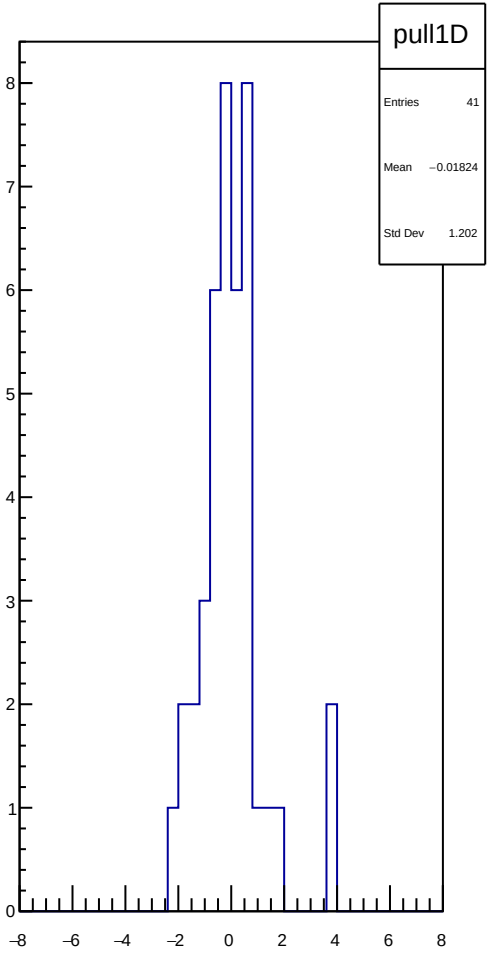

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.66 / 40
p0 1.101 ± 1.723
pull
Entries 41
Mean 9.075e+04
Std Dev 0

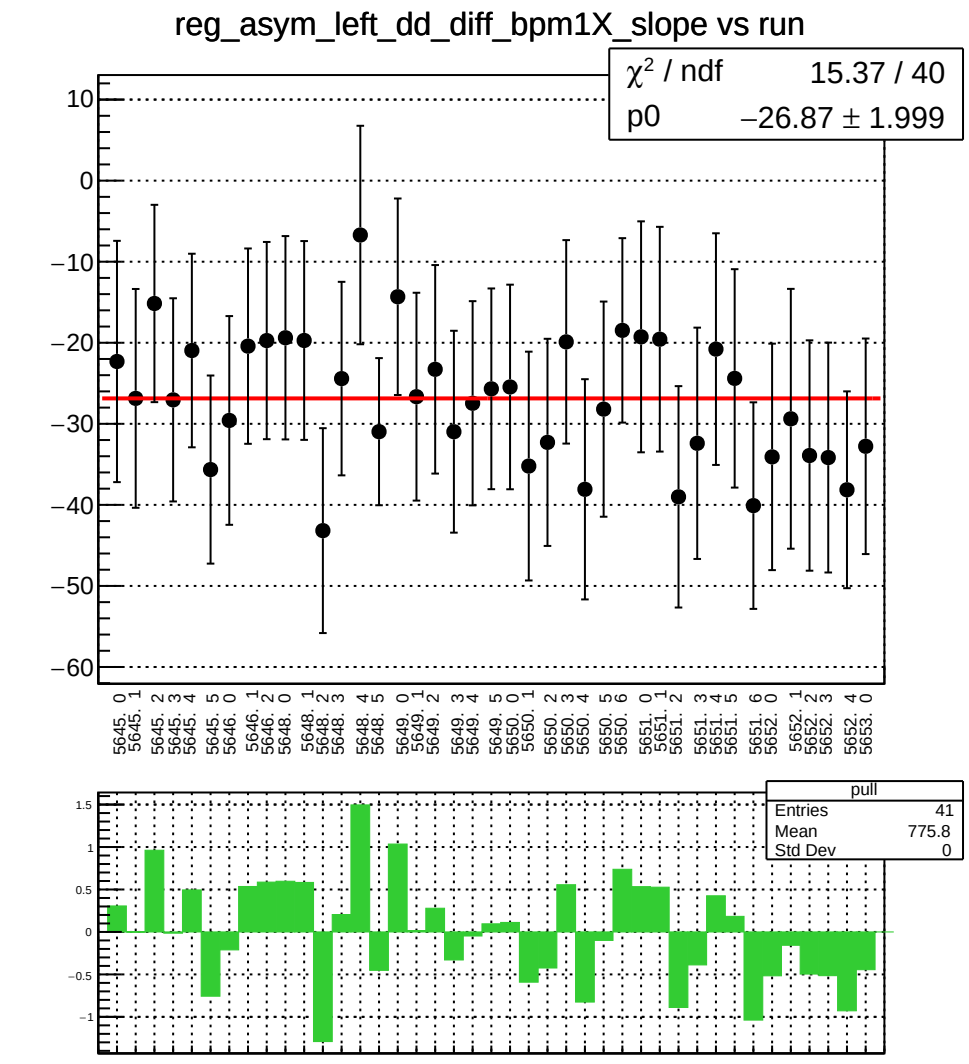

pull1D
Entries 41
Mean 2.579e−05
Std Dev 0.6181

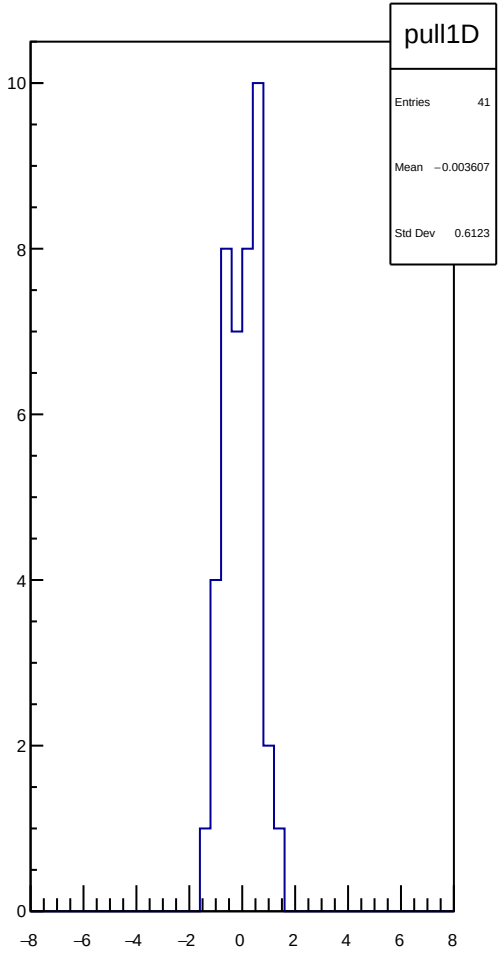

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.1 / 40
p0 5.227 ± 2.065
30
20
10
0
−10
−20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 57.61
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

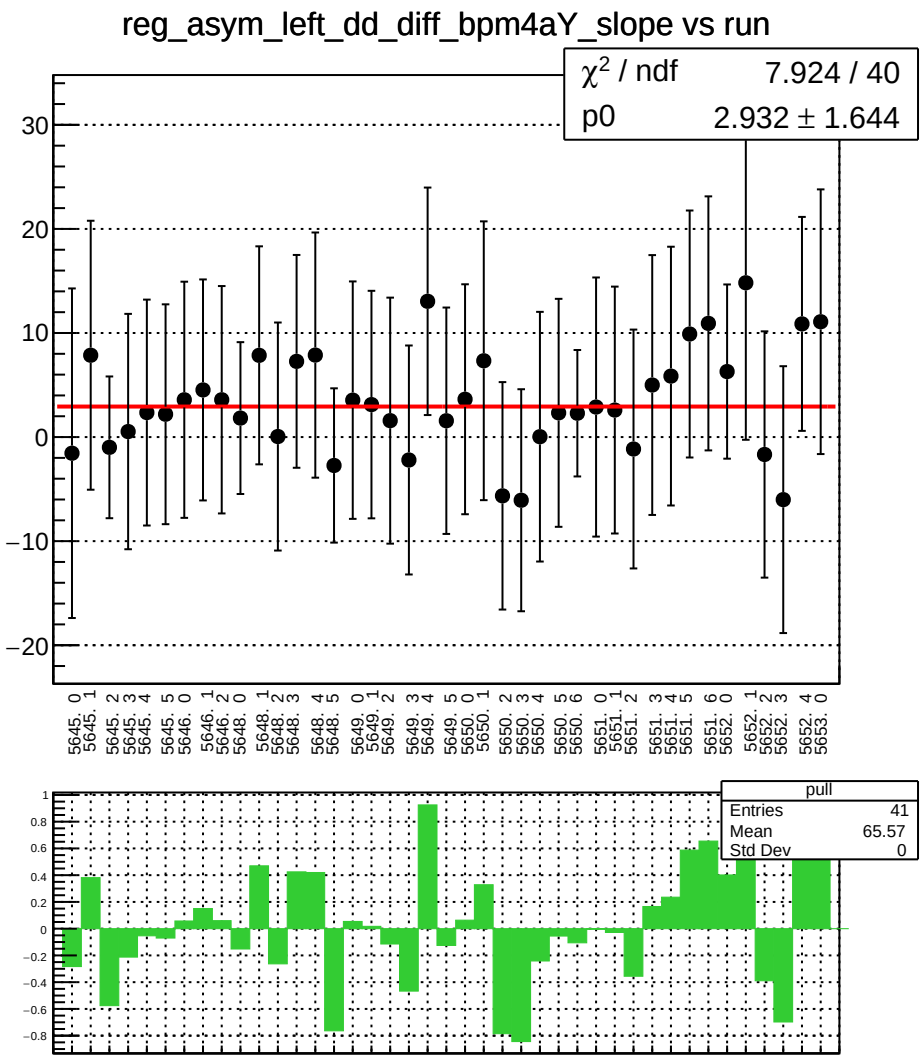

pull1D
Entries 41
Mean −0.02573
Std Dev 0.3849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

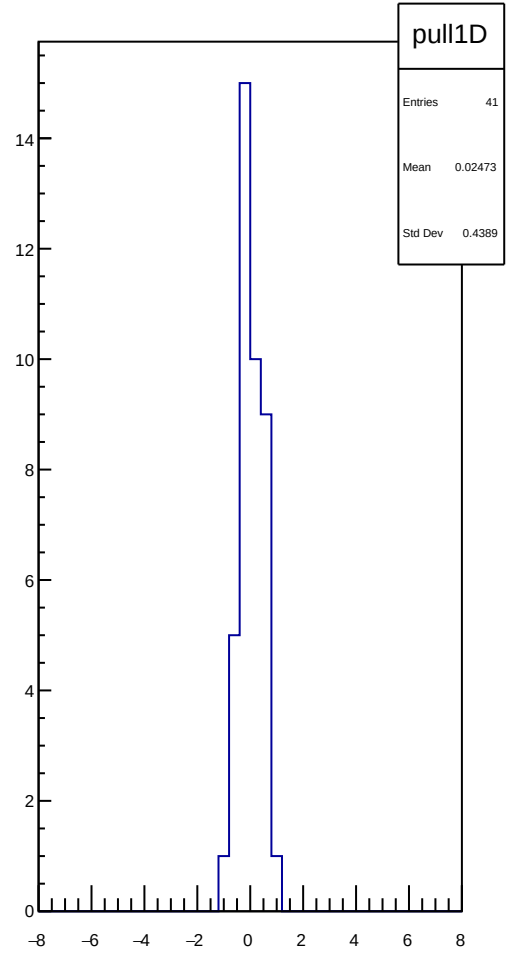

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 59.21 / 40
p0 −18.98 ± 0.07053
pull
Entries 41
Mean 132.2
Std Dev 0

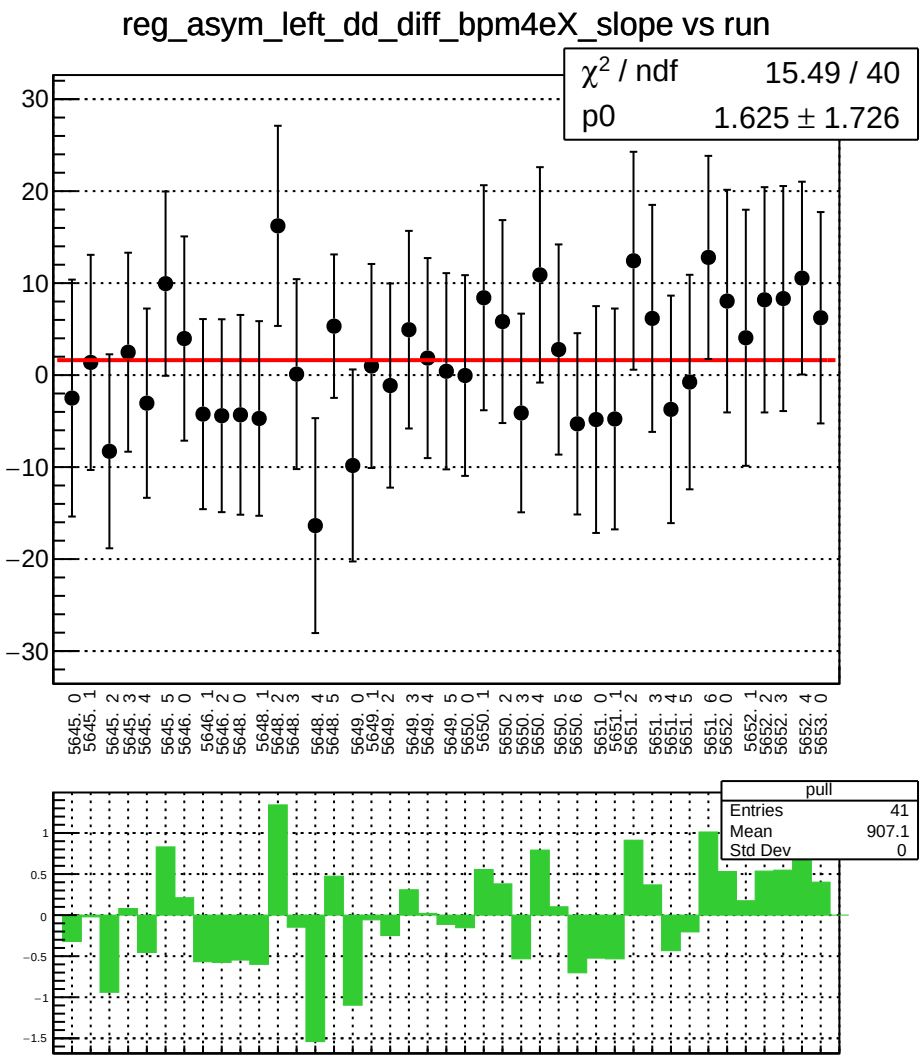

pull1D
Entries 41
Mean −0.01824
Std Dev 1.202

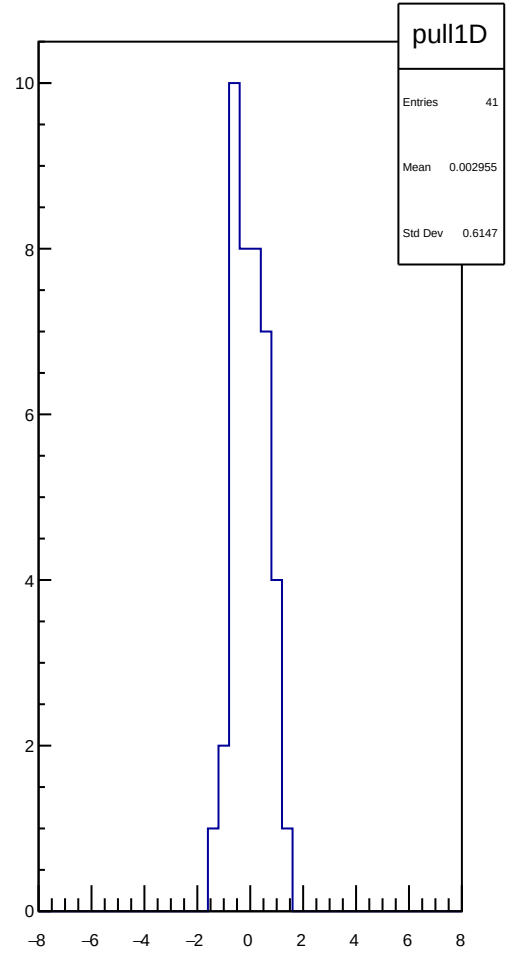

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 15.37 / 40
p0 −26.87 ± 1.999
pull
Entries 41
Mean 775.8
Std Dev 0

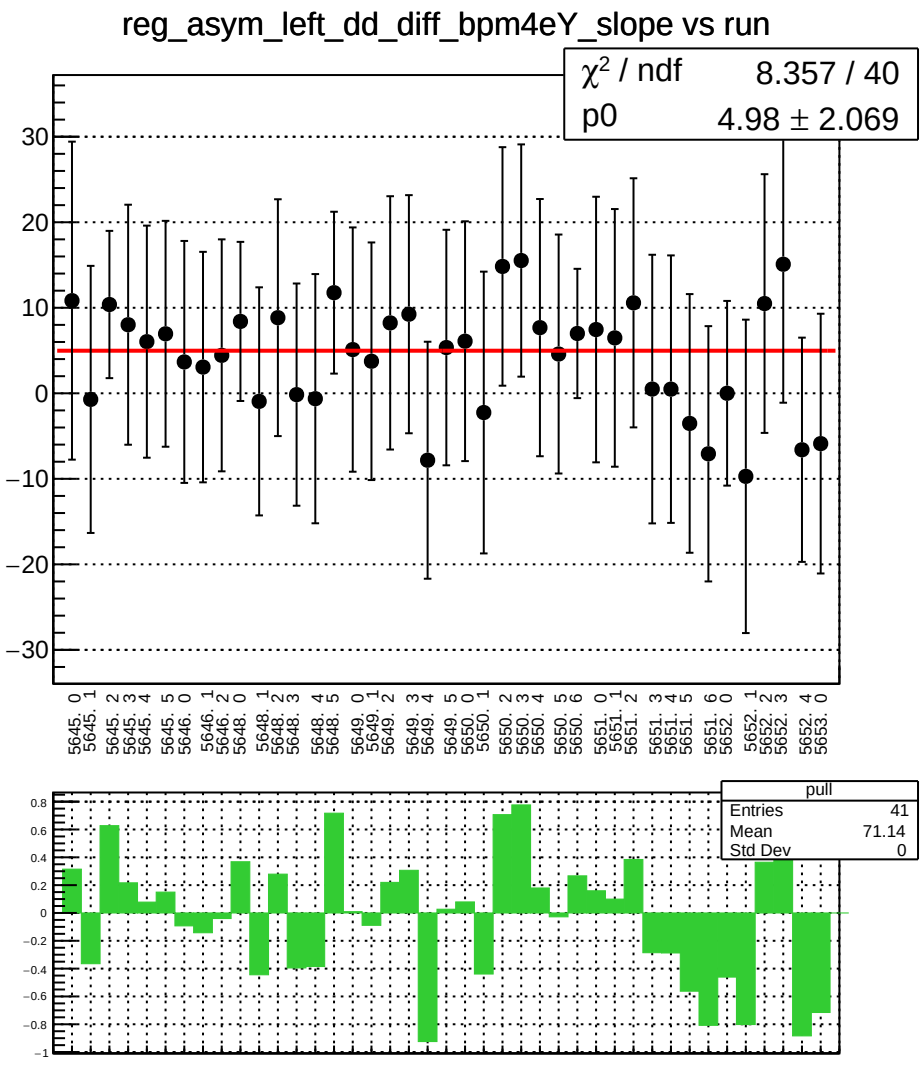

pull1D
Entries 41
Mean −0.003607
Std Dev 0.6123

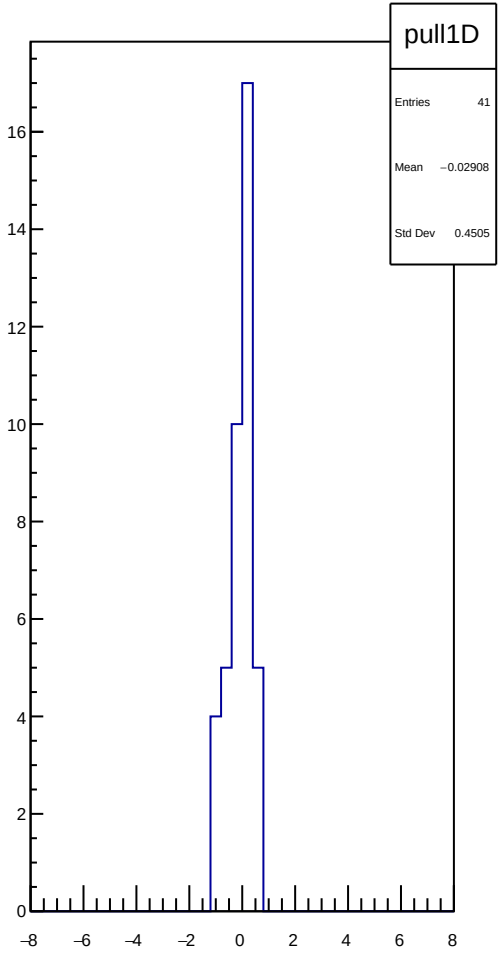

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.924 / 40
p0 2.932 ± 1.644
pull
Entries 41
Mean 65.57
Std Dev 0

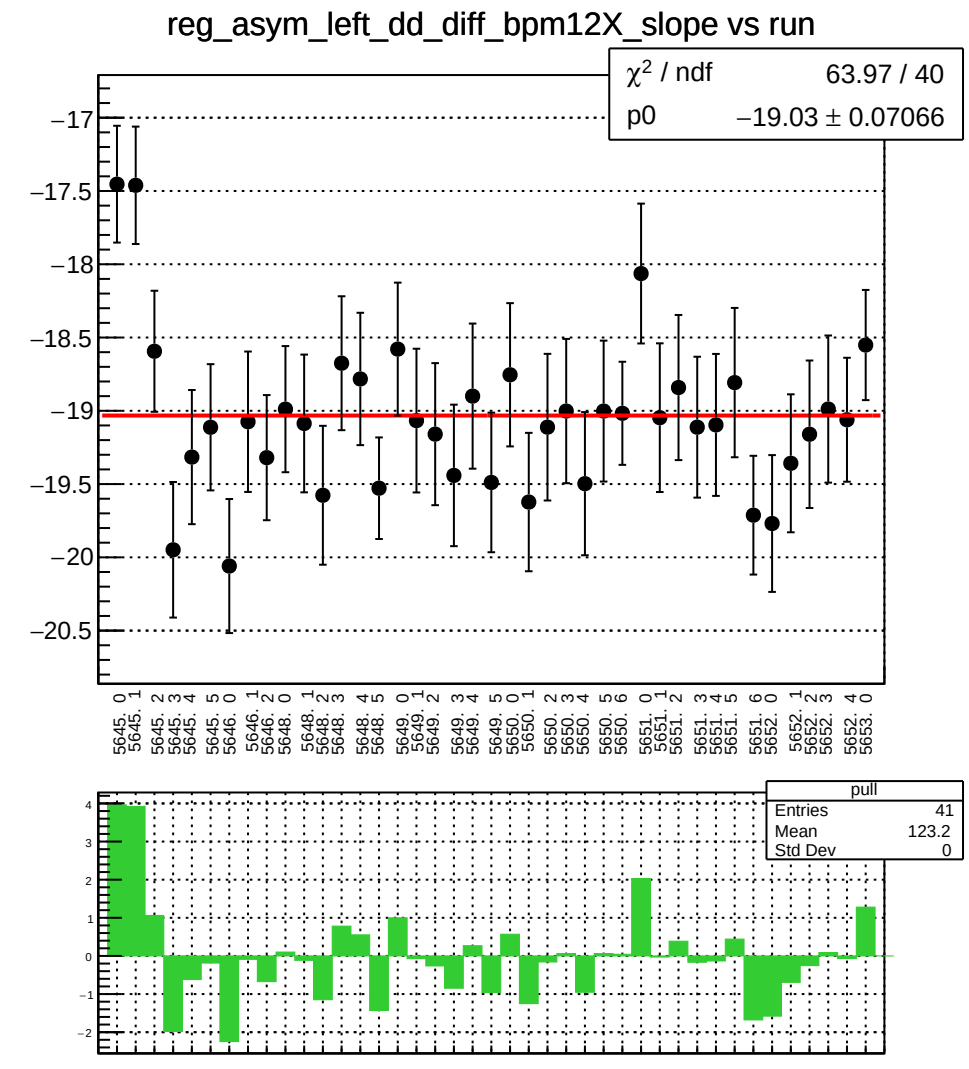

pull1D
Entries 41
Mean 0.02473
Std Dev 0.4389

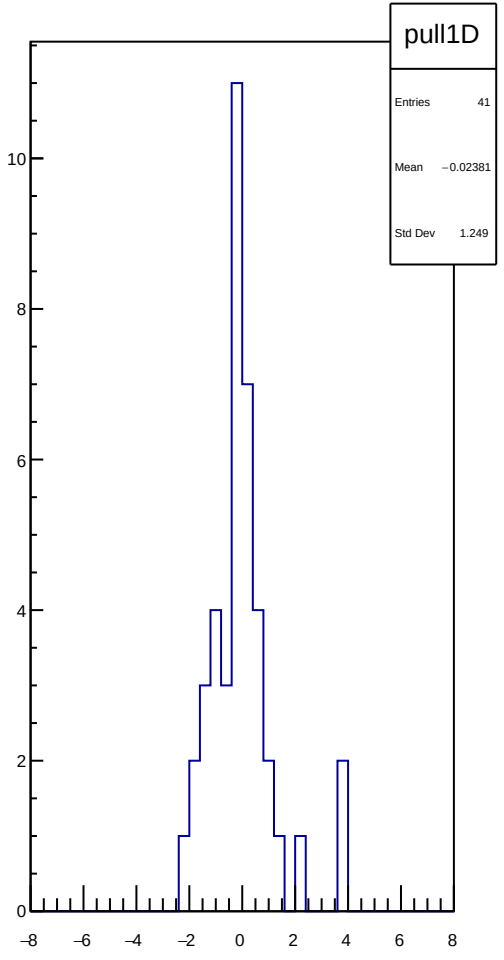

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.49 / 40
p0 1.625 ± 1.726
pull
Entries 41
Mean 907.1
Std Dev 0

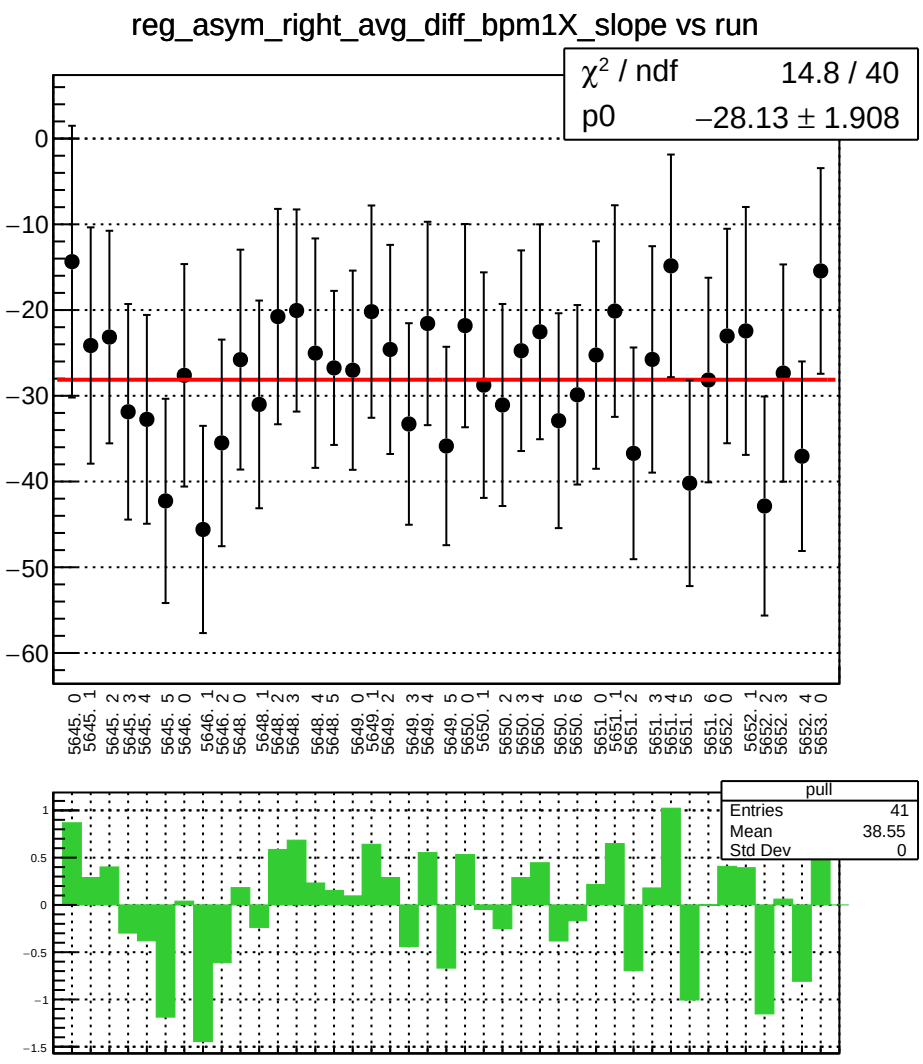

pull1D
Entries 41
Mean 0.002955
Std Dev 0.6147

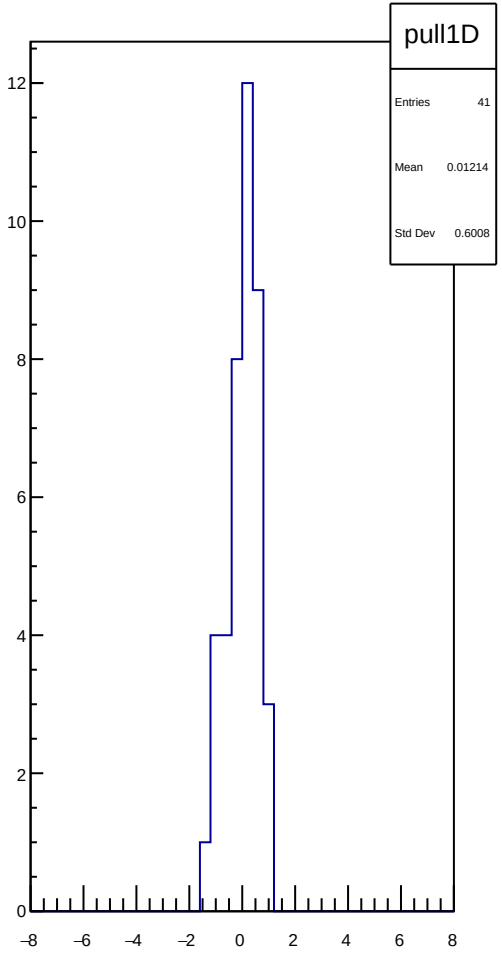

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.357 / 40
p0 4.98 ± 2.069
pull
Entries 41
Mean 71.14
Std Dev 0

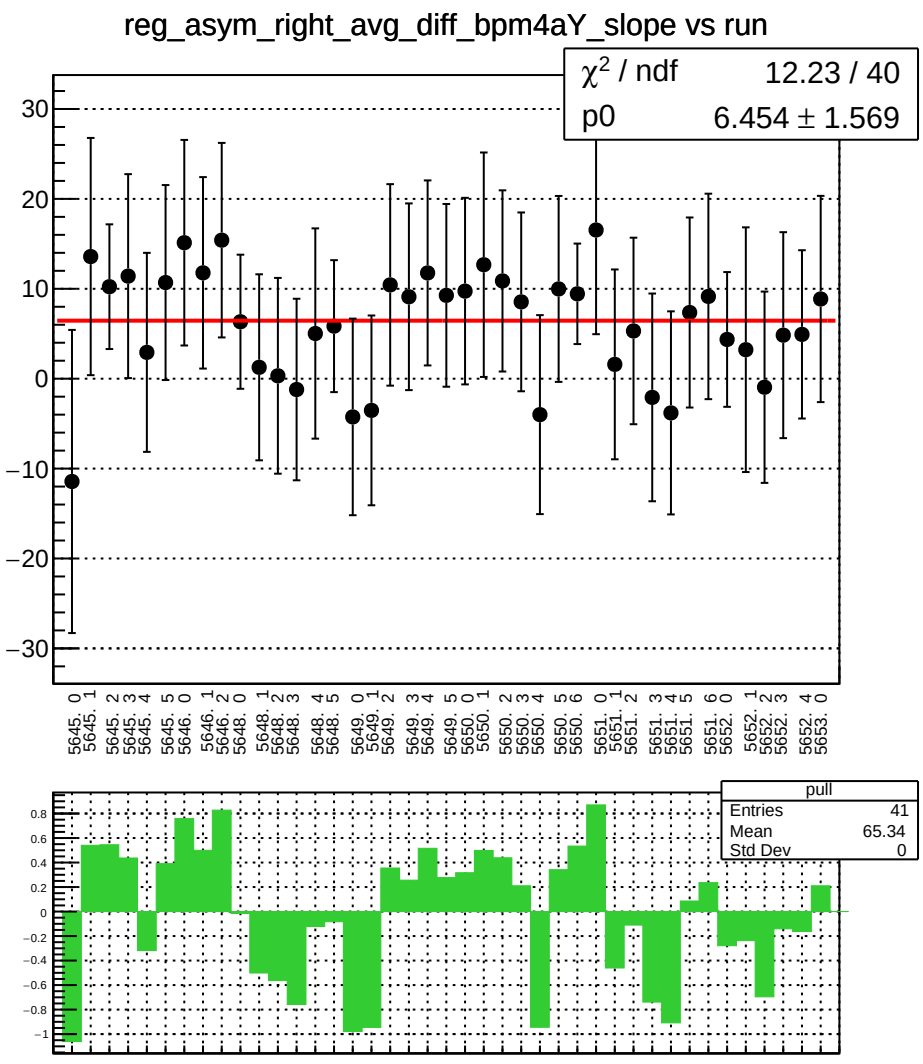

pull1D
Entries 41
Mean −0.02908
Std Dev 0.4505

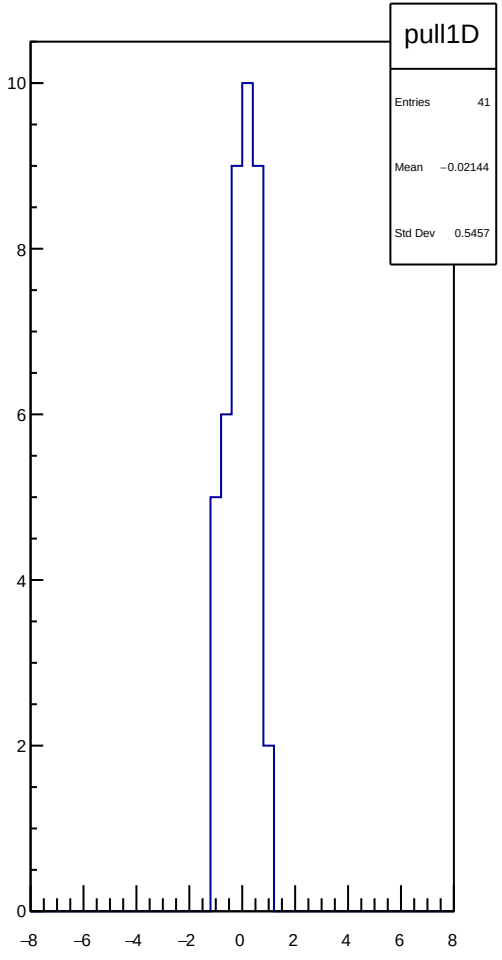

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 63.97 / 40
p0 −19.03 ± 0.07066
pull
Entries 41
Mean 123.2
Std Dev 0

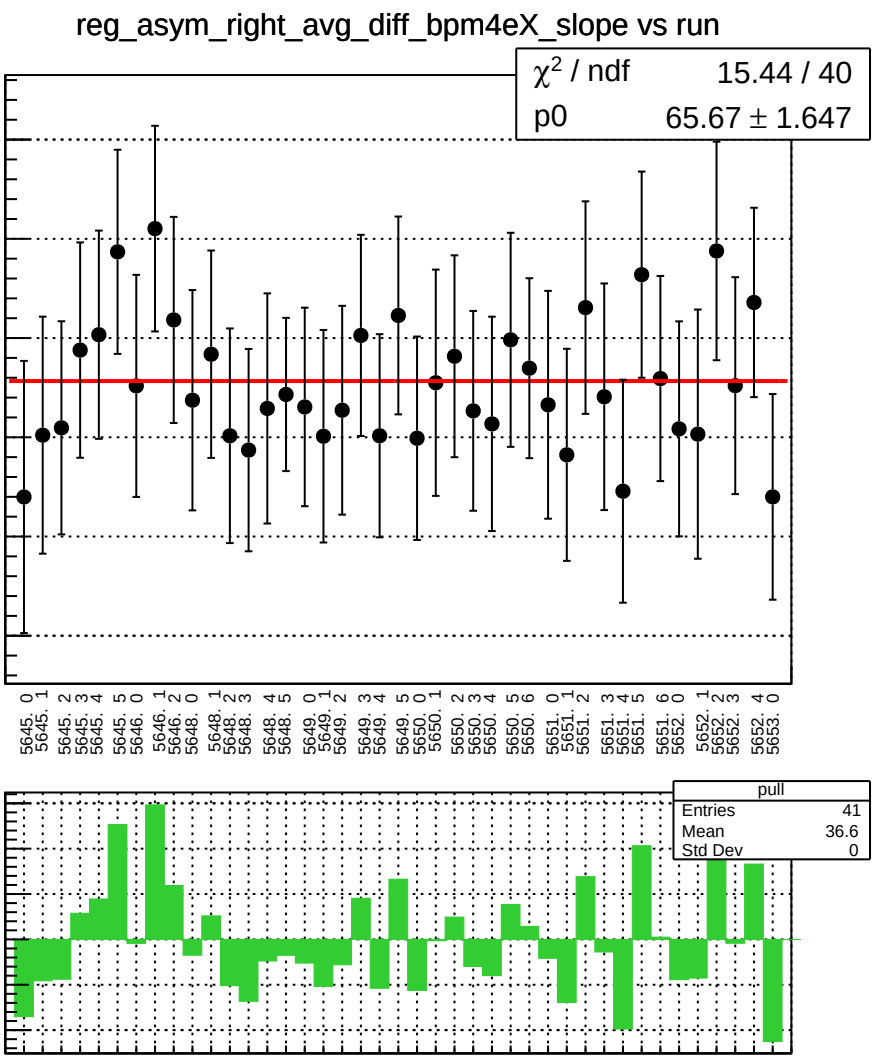

pull1D
Entries 41
Mean −0.02381
Std Dev 1.249

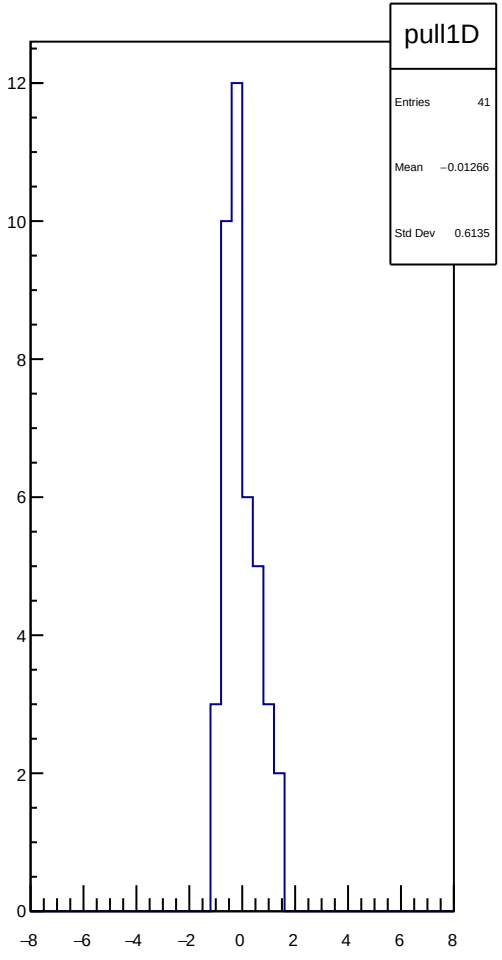

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 14.8 / 40
p0 −28.13 ± 1.908
pull
Entries 41
Mean 38.55
Std Dev 0

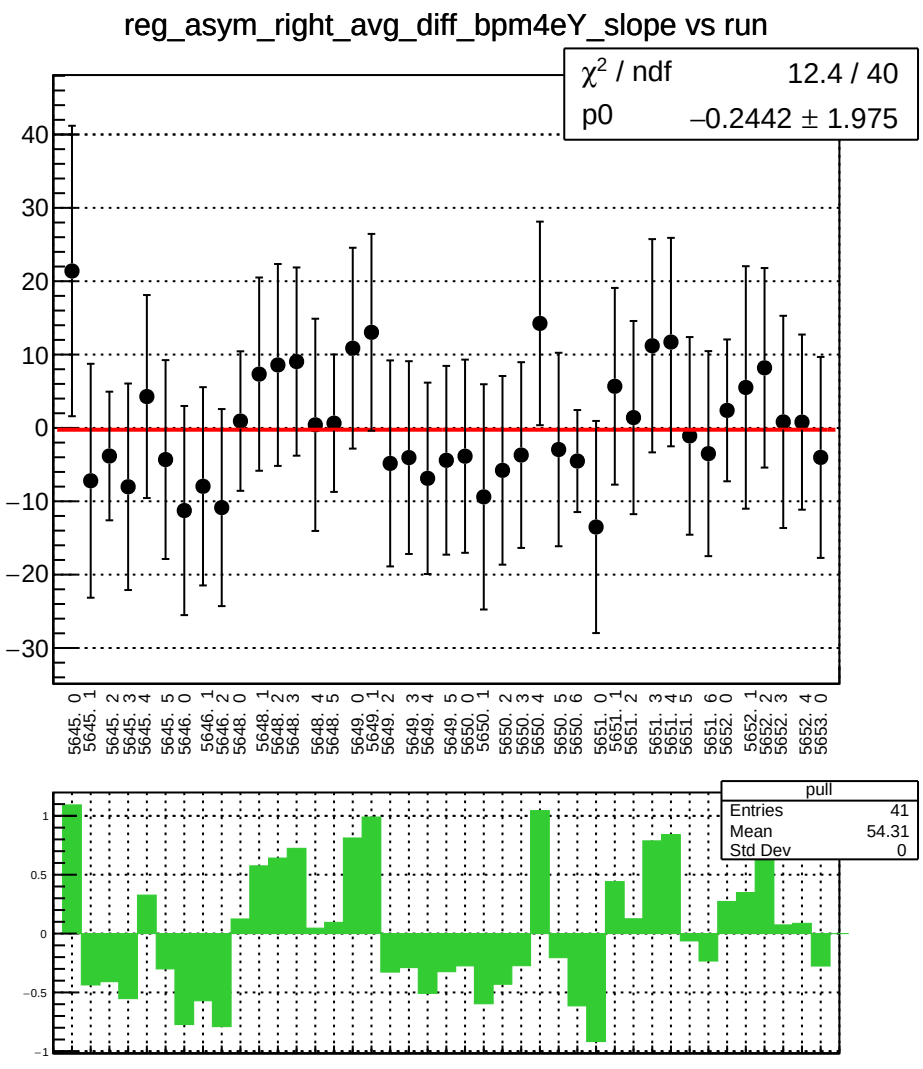

pull1D
Entries 41
Mean 0.01214
Std Dev 0.6008

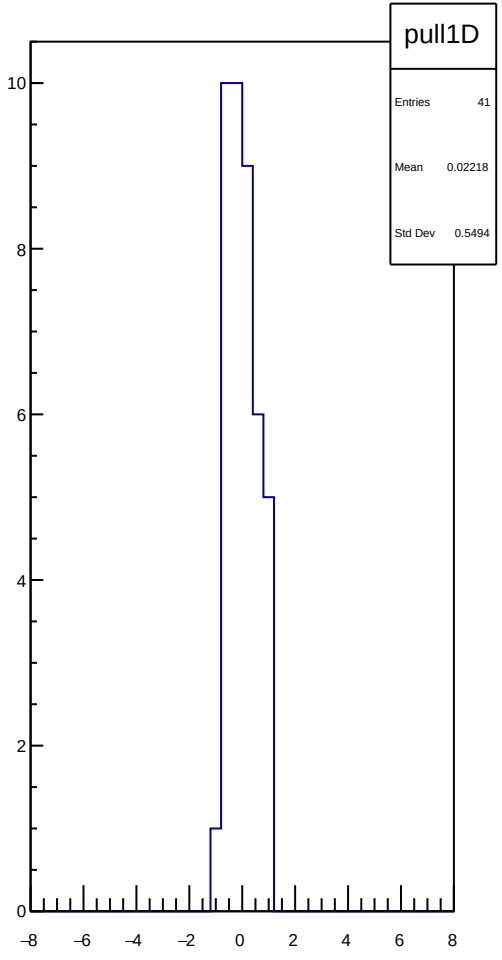

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.23 / 40
p0 6.454 ± 1.569
pull
Entries 41
Mean 65.34
Std Dev 0

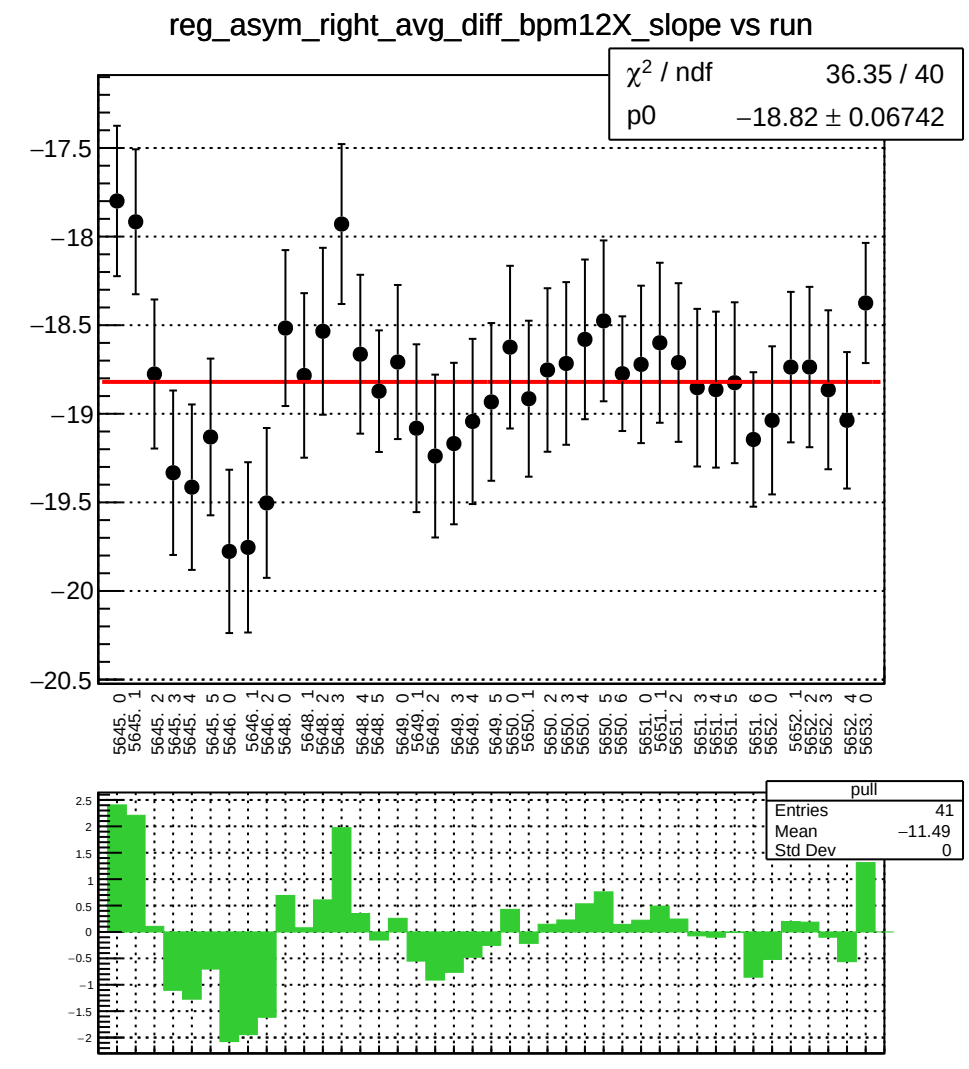

pull1D
Entries 41
Mean −0.02144
Std Dev 0.5457

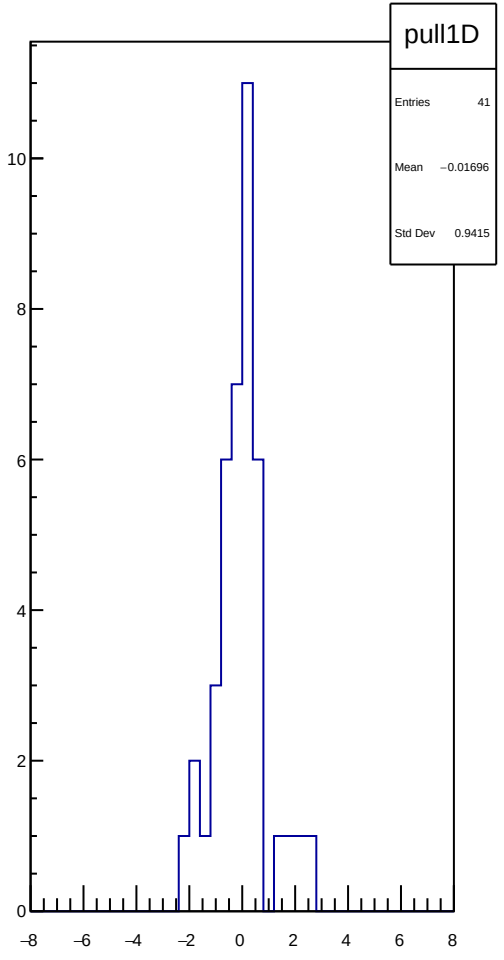

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.44 / 40
p0 65.67 ± 1.647
pull
Entries 41
Mean 36.6
Std Dev 0

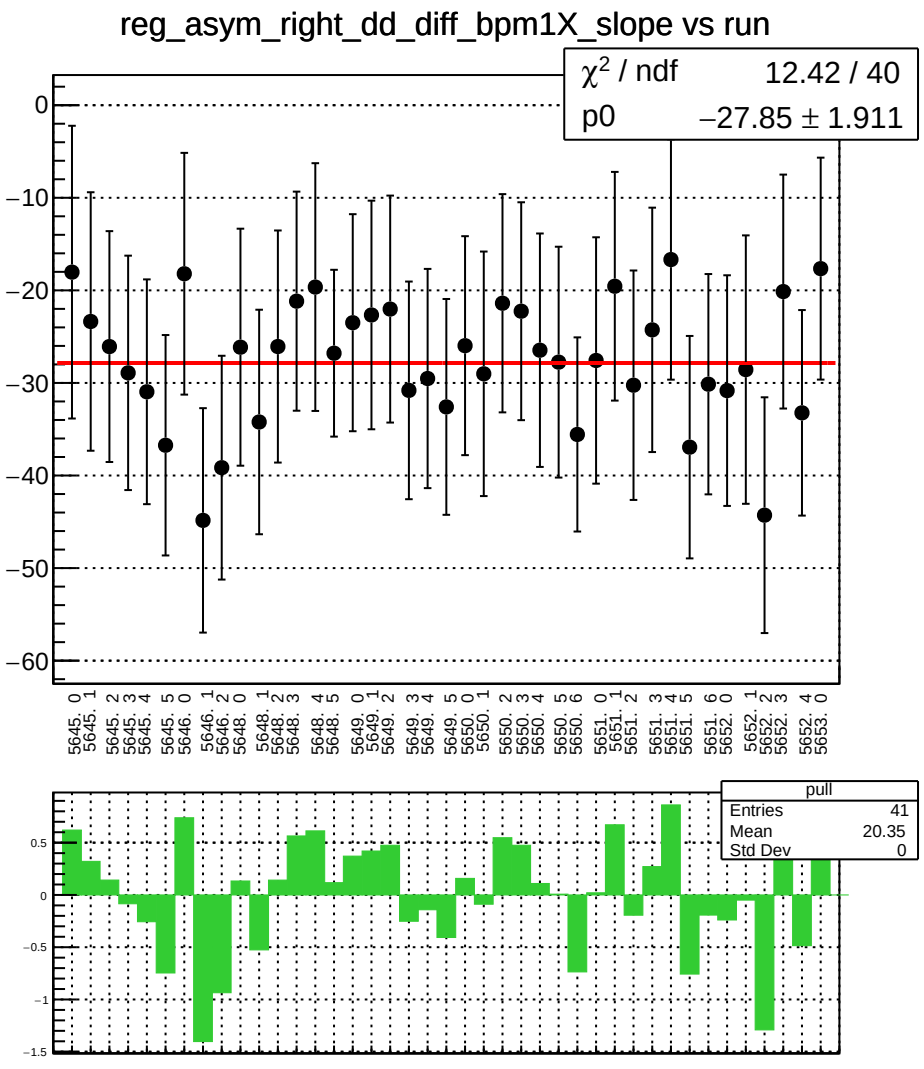

pull1D
Entries 41
Mean −0.01266
Std Dev 0.6135

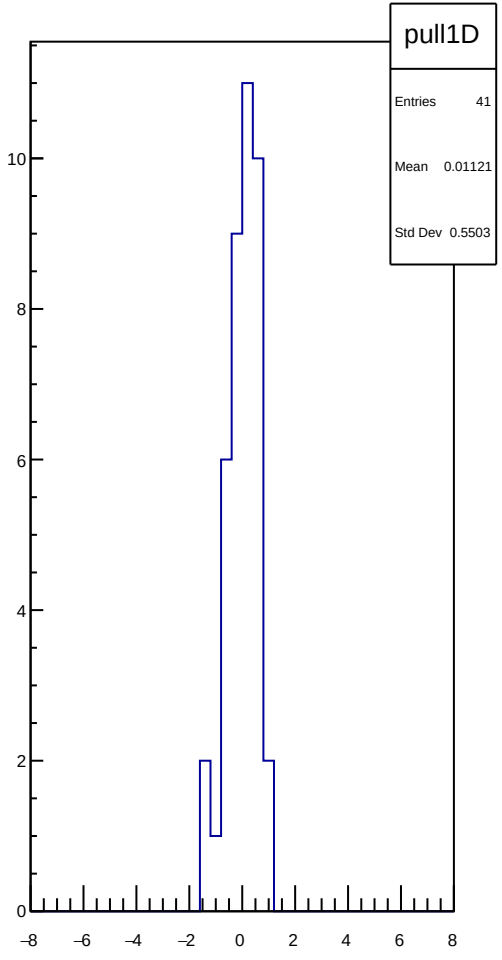

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.4 / 40
p0 −0.2442 ± 1.975
pull
Entries 41
Mean 54.31
Std Dev 0

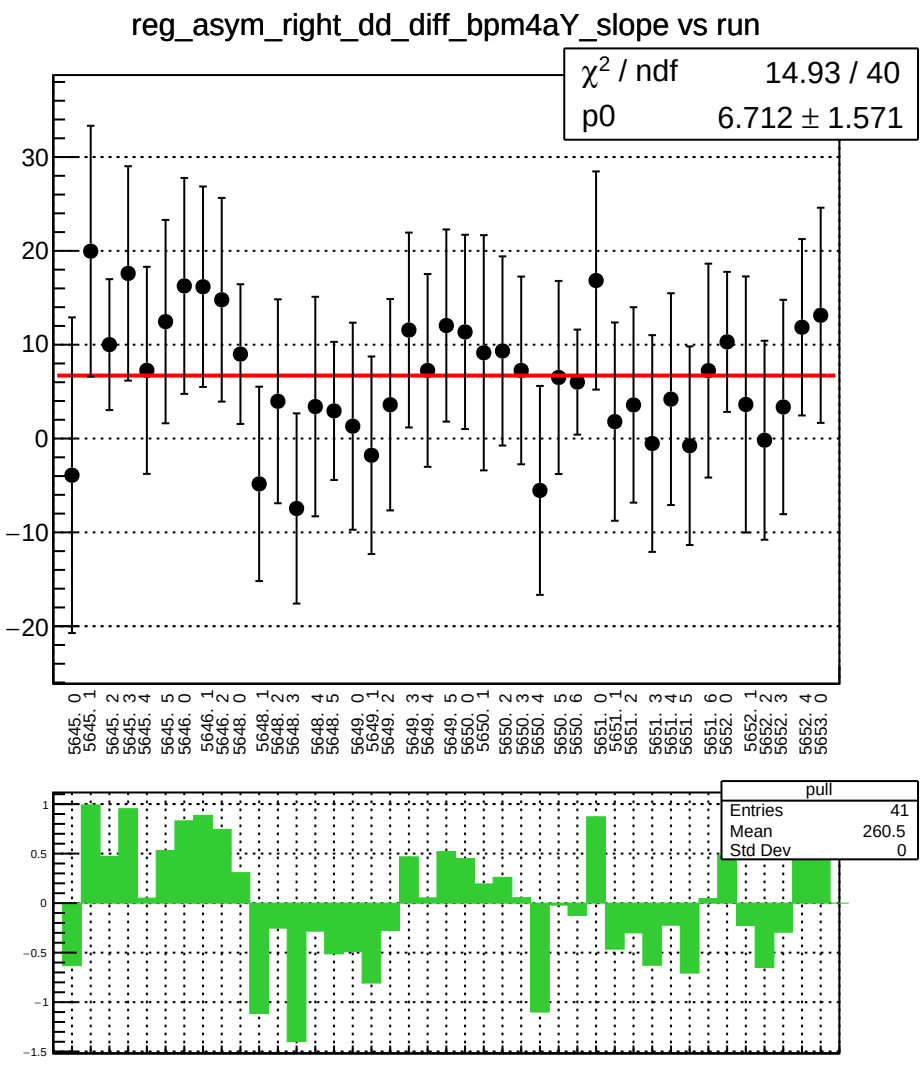

pull1D
Entries 41
Mean 0.02218
Std Dev 0.5494

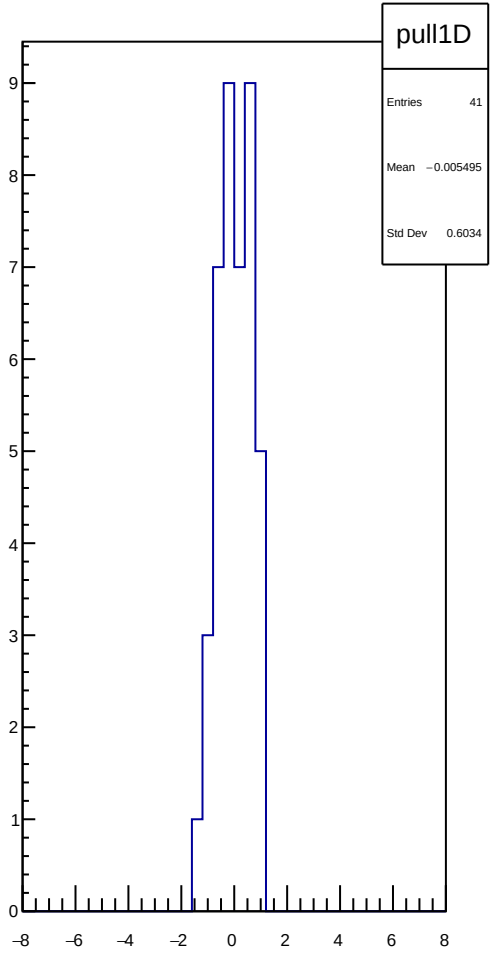

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 36.35 / 40
p0 −18.82 ± 0.06742
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 41
Mean −11.49
Std Dev 0

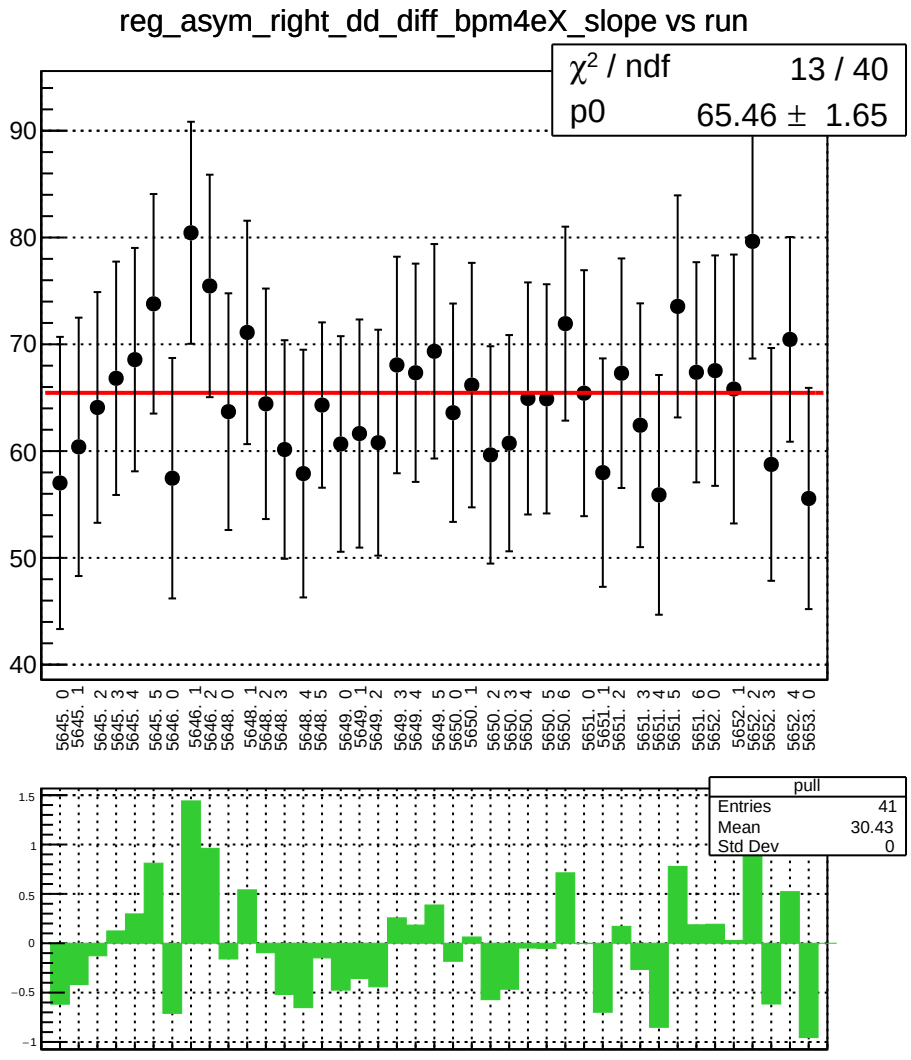

pull1D
Entries 41
Mean −0.01696
Std Dev 0.9415

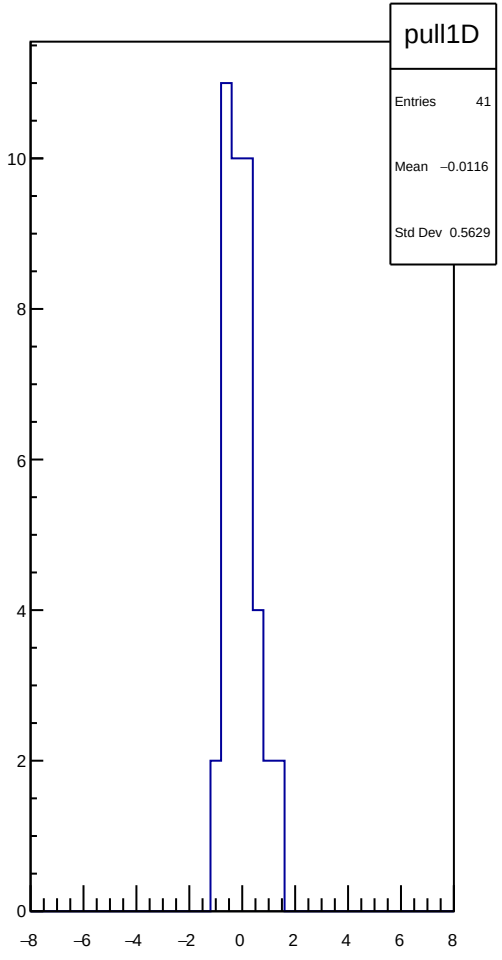

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 12.42 / 40
p0 −27.85 ± 1.911
pull
Entries 41
Mean 20.35
Std Dev 0

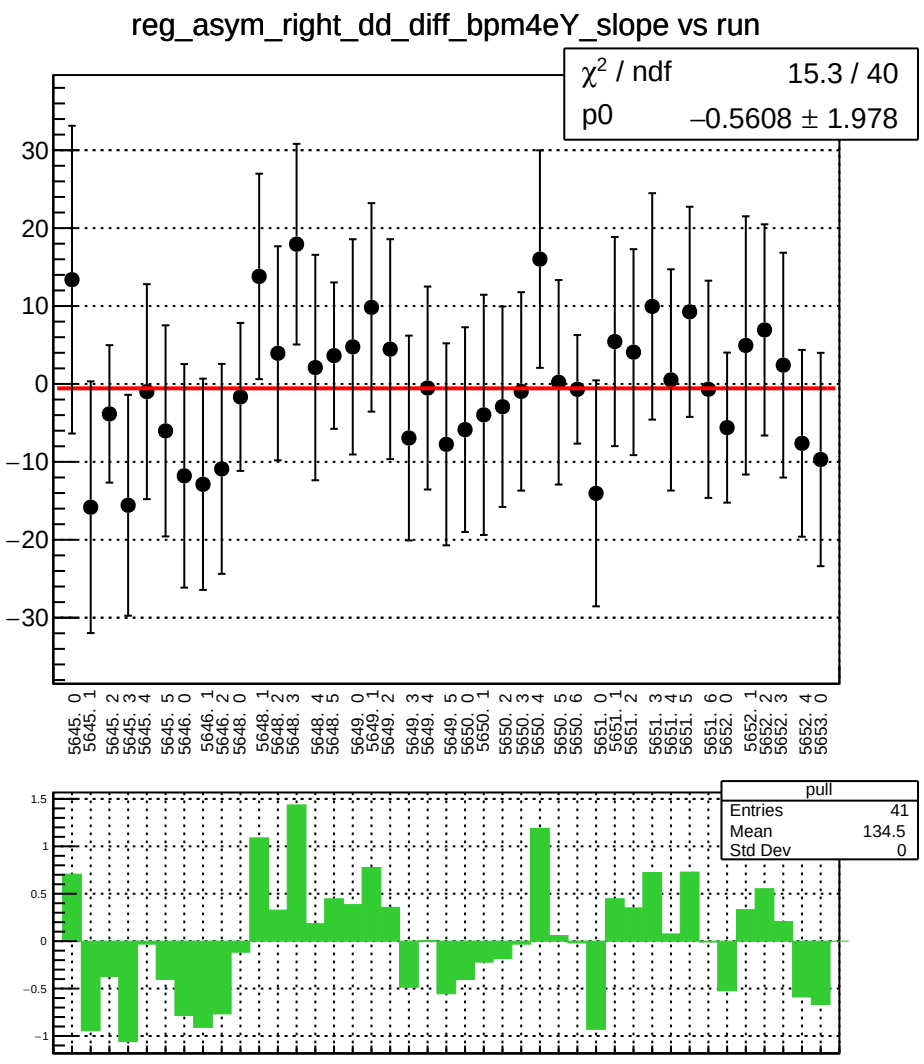

pull1D
Entries 41
Mean 0.01121
Std Dev 0.5503

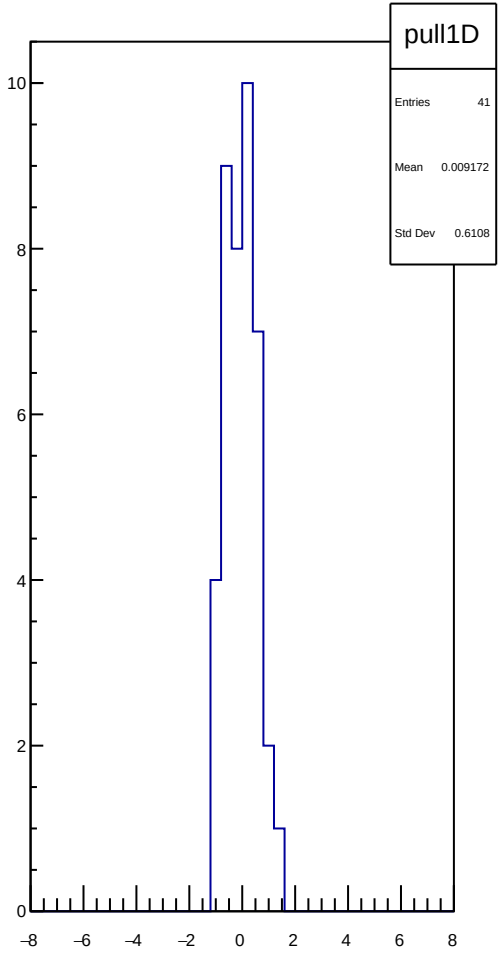

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.93 / 40
p0 6.712 ± 1.571
pull
Entries 41
Mean 260.5
Std Dev 0

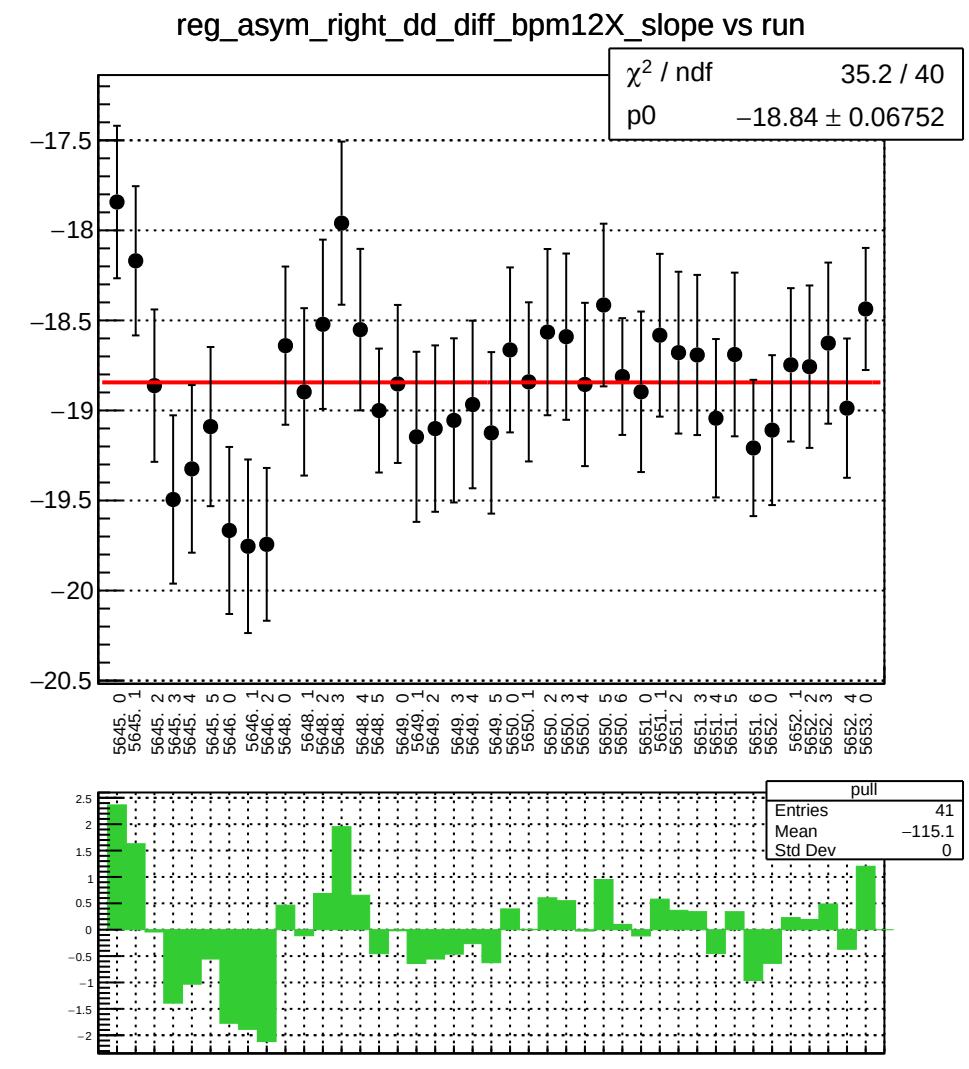

pull1D
Entries 41
Mean −0.005495
Std Dev 0.6034

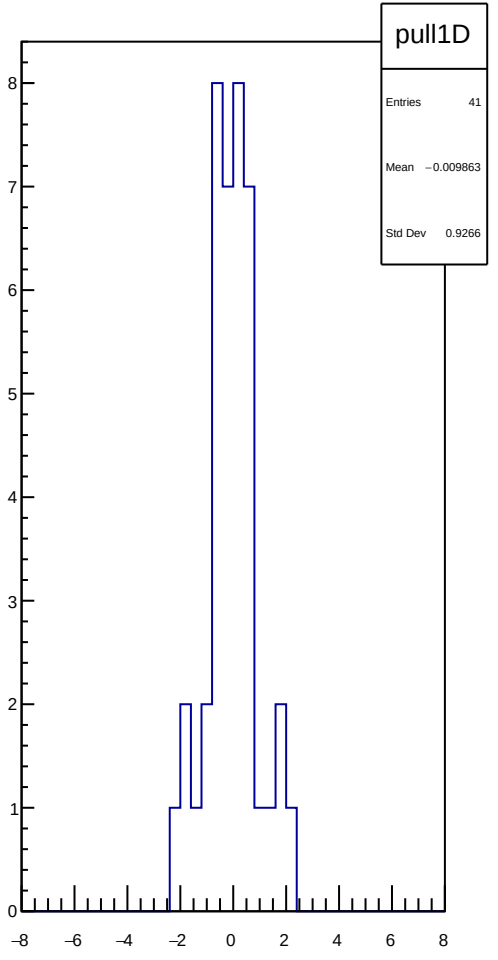

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 13 / 40
p0 65.46 ± 1.65
pull
Entries 41
Mean 30.43
Std Dev 0

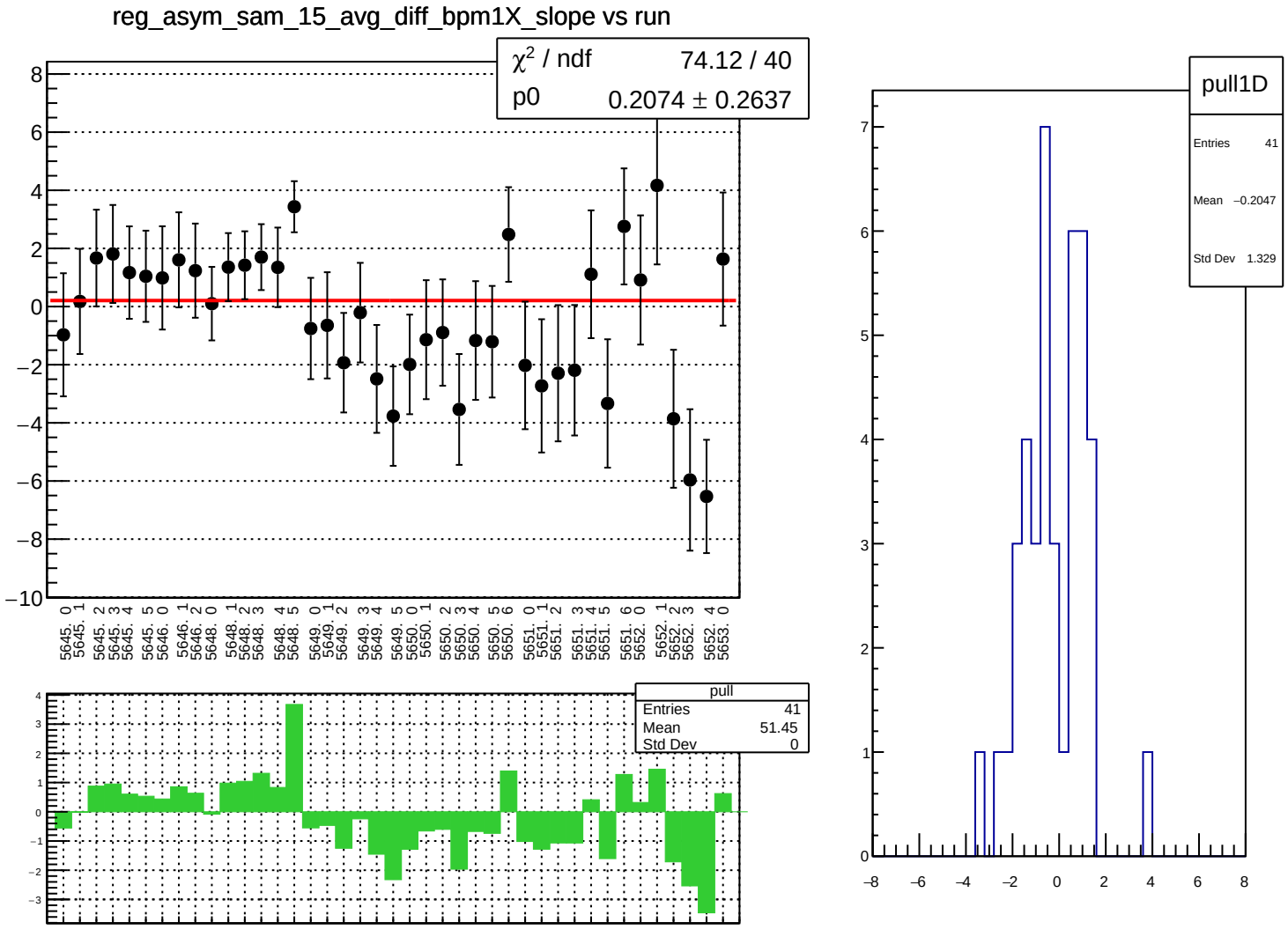

pull1D
Entries 41
Mean −0.0116
Std Dev 0.5629

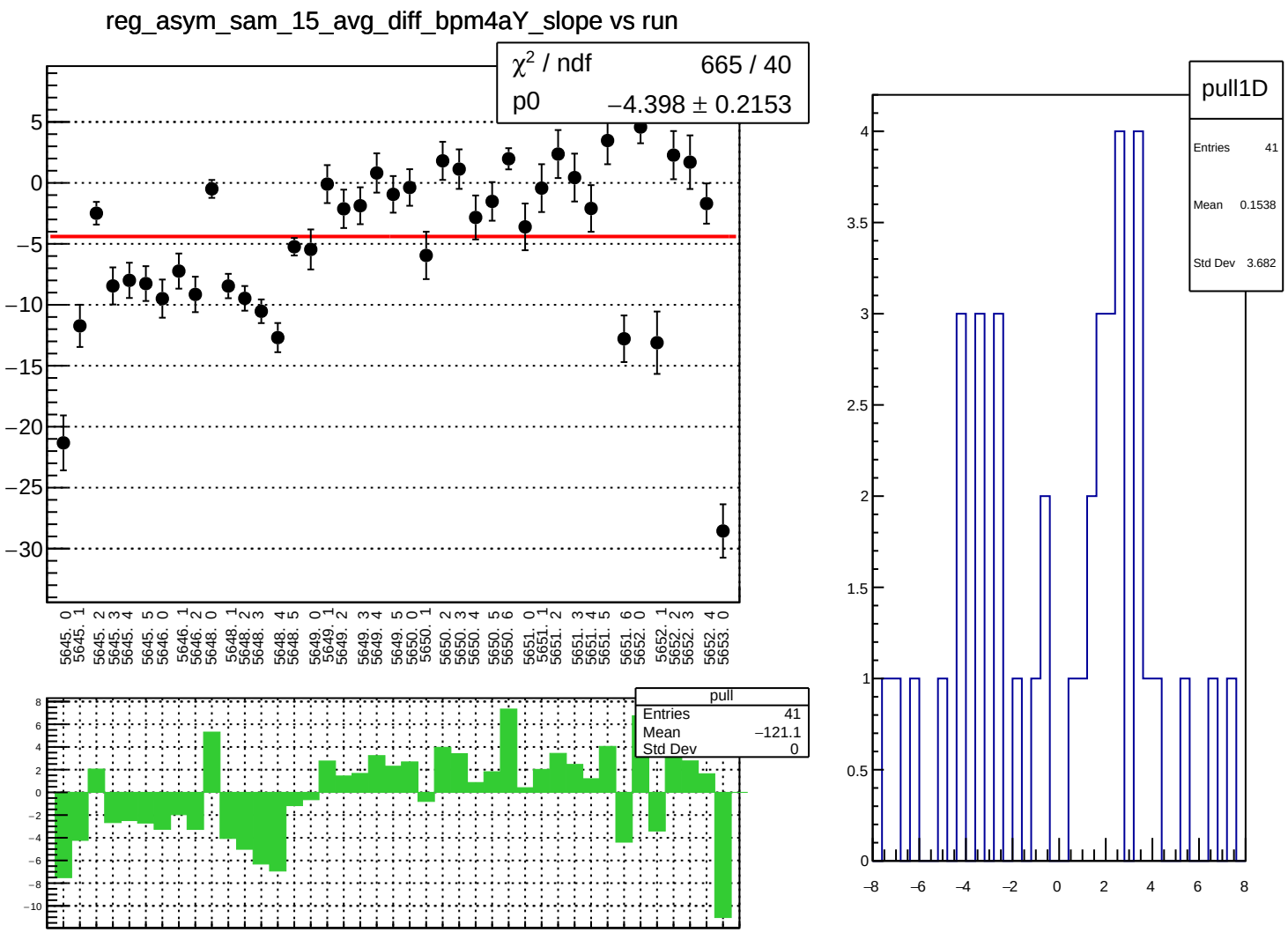

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.3 / 40
p0 −0.5608 ± 1.978
30
20
10
0
−10
−20
−30
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 134.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1

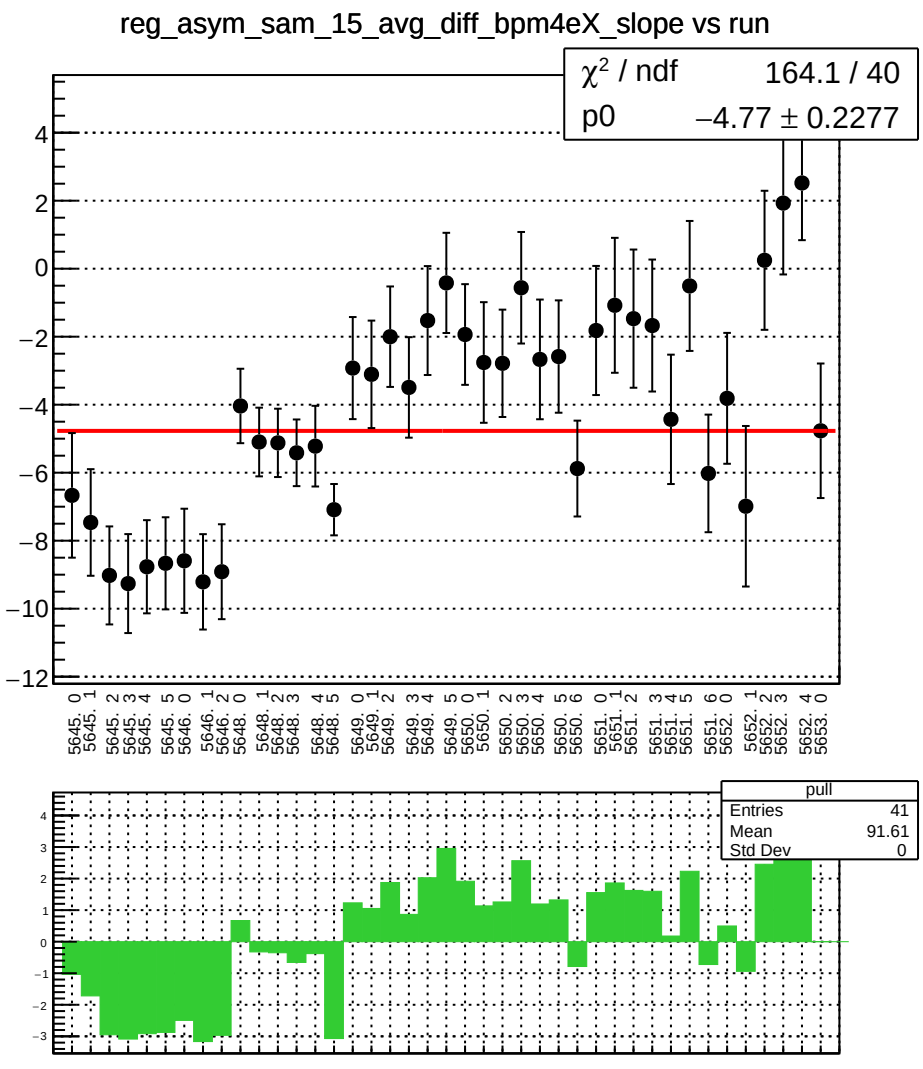

pull1D
Entries 41
Mean 0.009172
Std Dev 0.6108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

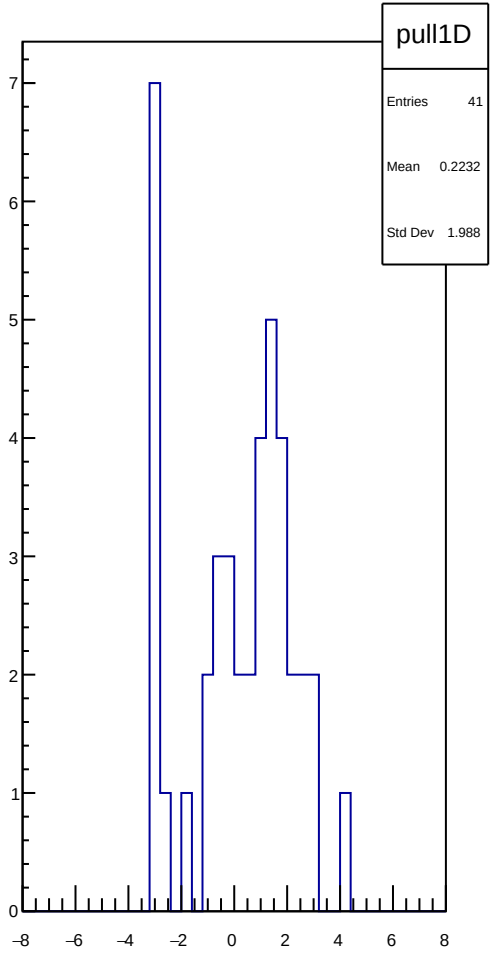

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 35.2 / 40
p0 −18.84 ± 0.06752
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −115.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

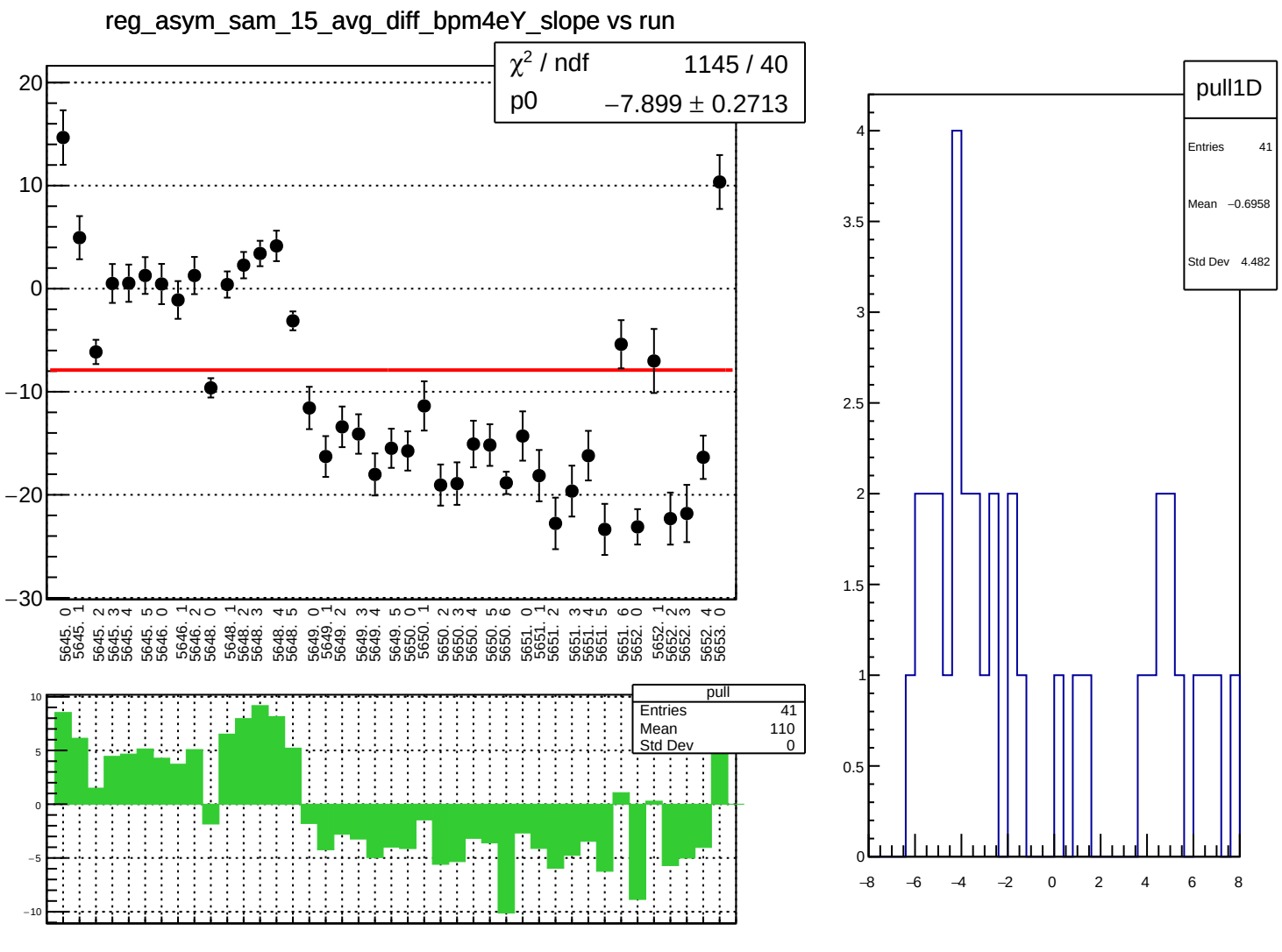

pull1D
Entries 41
Mean −0.009863
Std Dev 0.9266
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

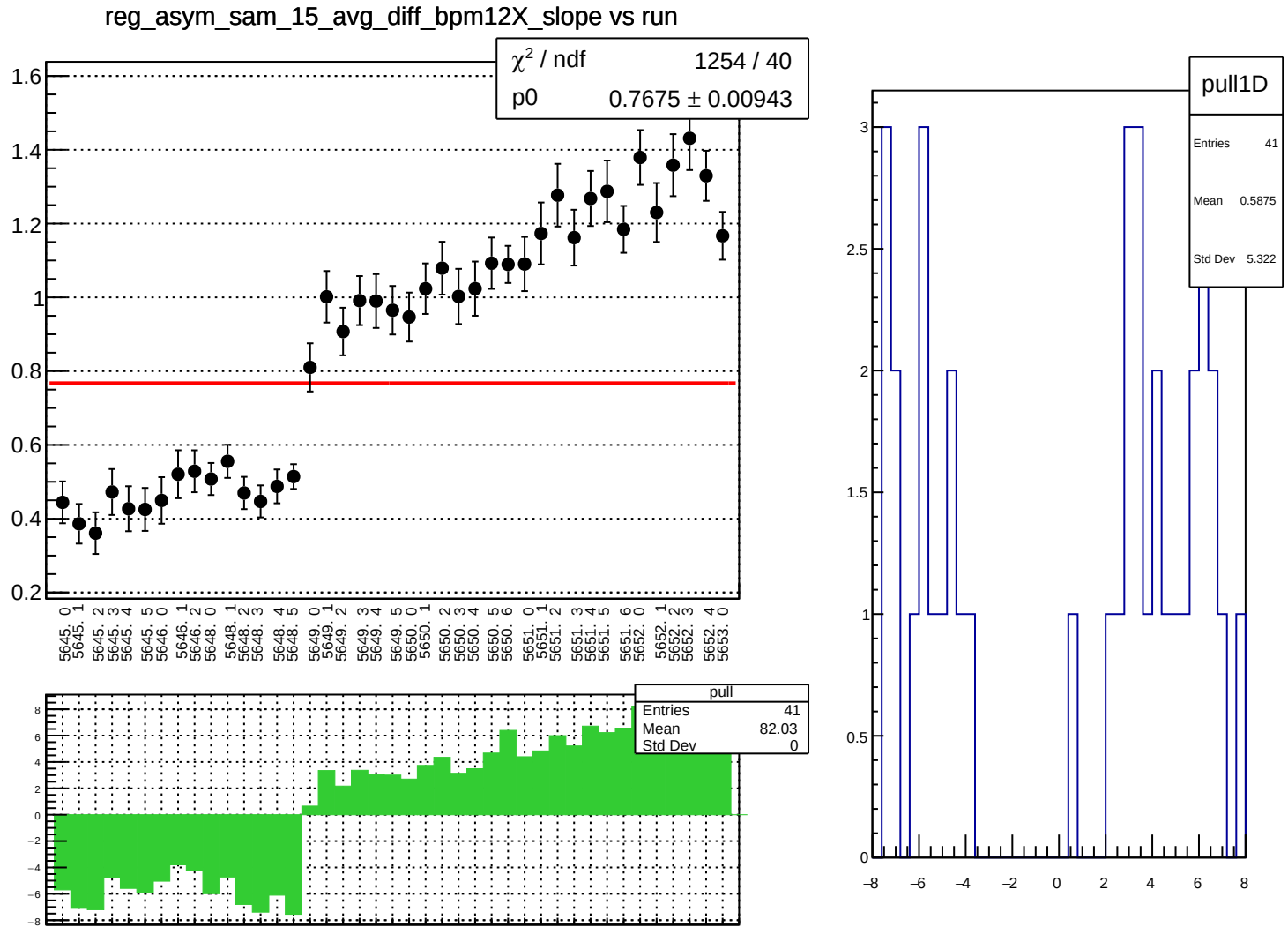

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 74.12 / 40
p0 0.2074 ± 0.2637
pull
Entries 41
Mean 51.45
Std Dev 0
pull1D
Entries 41
Mean −0.2047
Std Dev 1.329

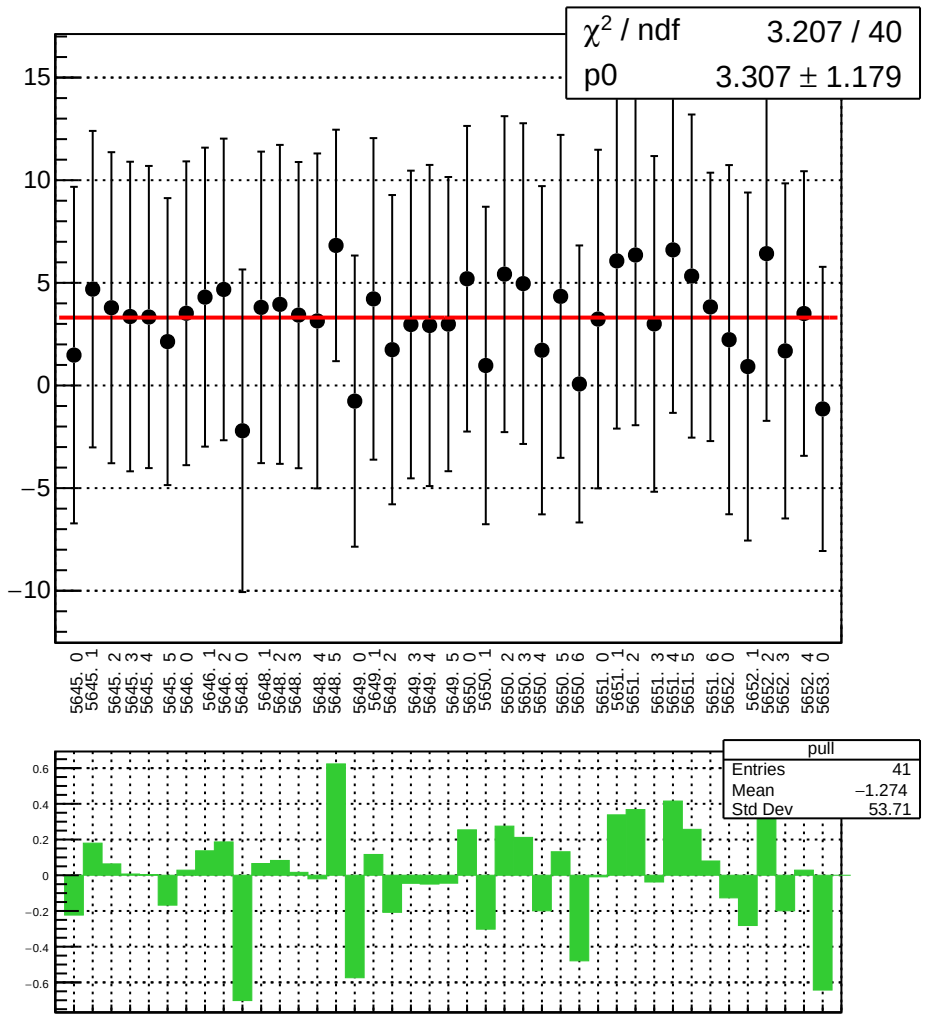

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 665 / 40
p0 −4.398 ± 0.2153
pull
Entries 41
Mean −121.1
Std Dev 0
pull1D
Entries 41
Mean 0.1538
Std Dev 3.682

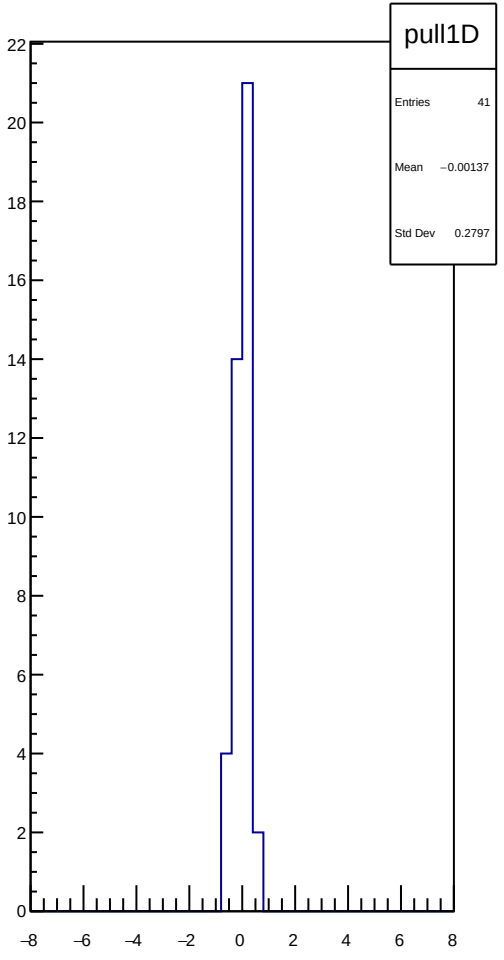

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 164.1 / 40
p0 −4.77 ± 0.2277
pull
Entries 41
Mean 91.61
Std Dev 0

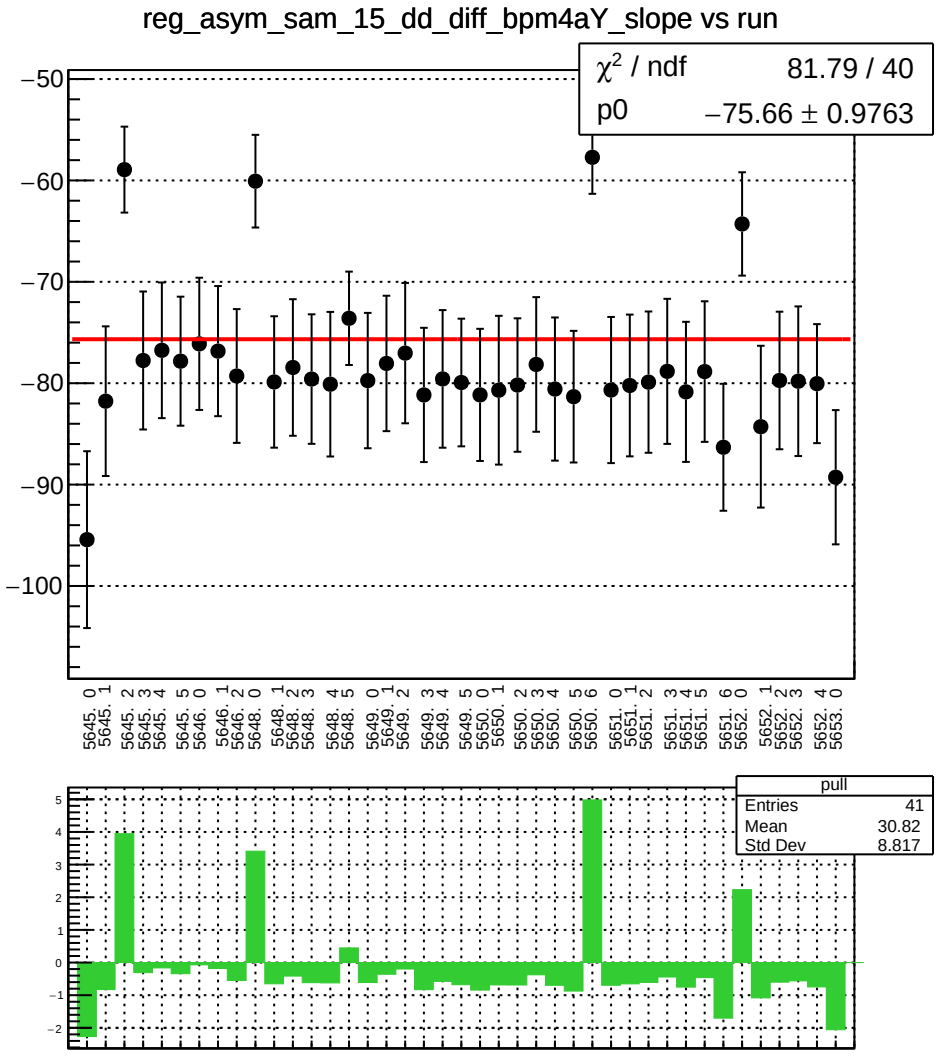

pull1D
Entries 41
Mean 0.2232
Std Dev 1.988

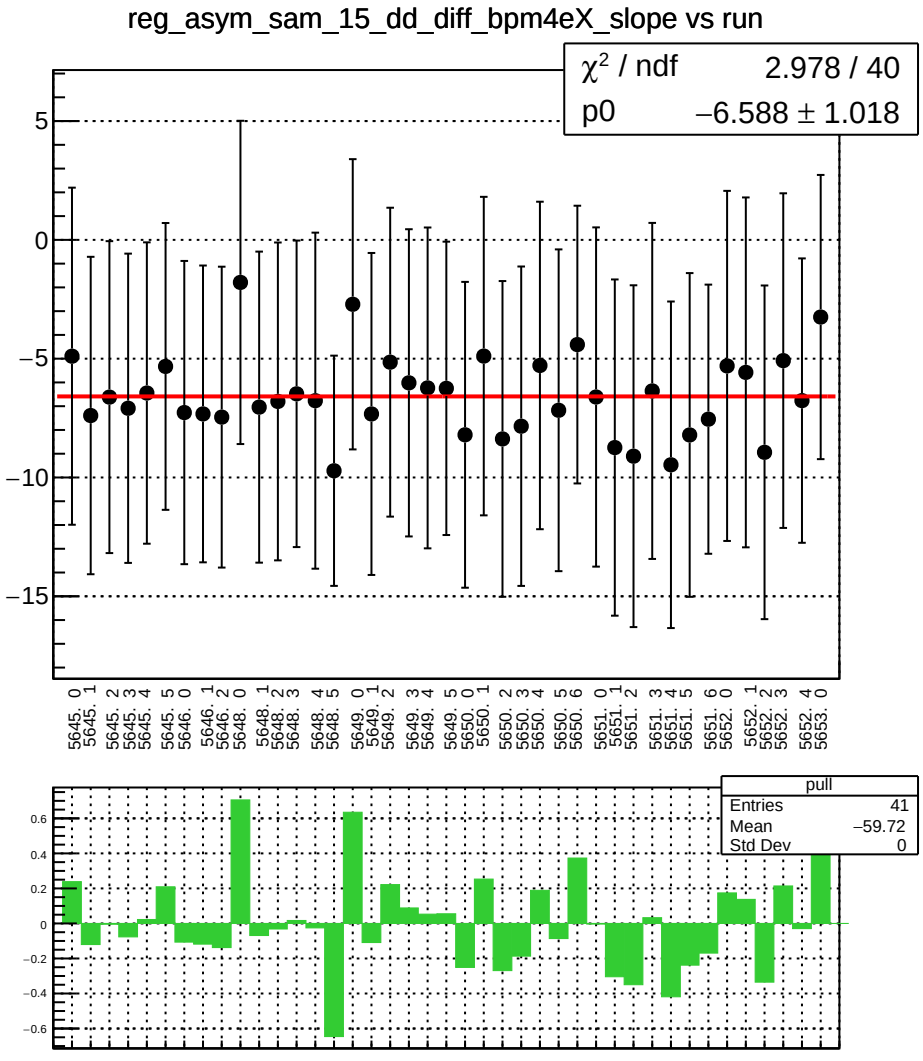

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 1145 / 40
p0 −7.899 ± 0.2713
pull
Entries 41
Mean 110
Std Dev 0
pull1D
Entries 41
Mean −0.6958
Std Dev 4.482

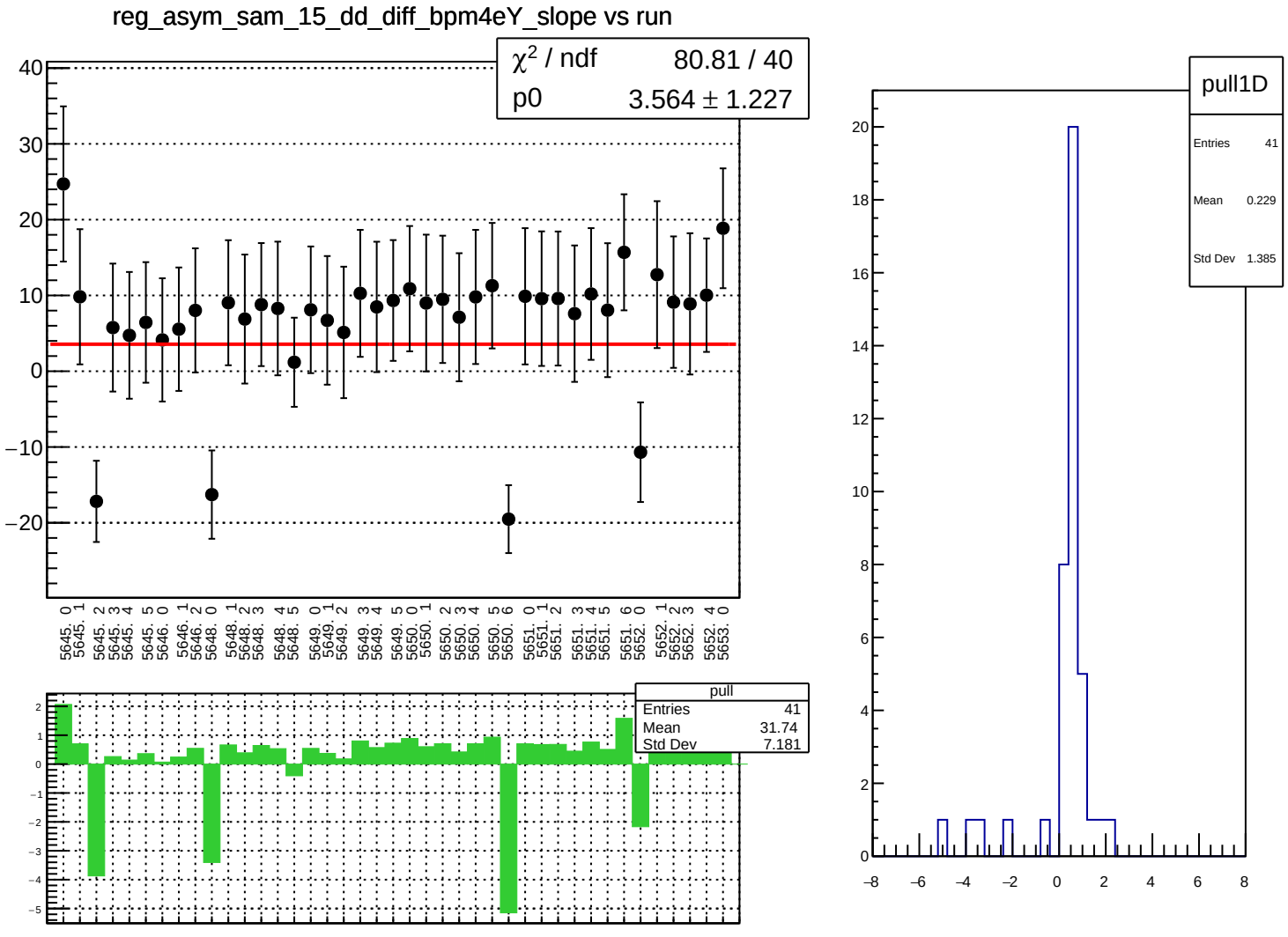

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 1254 / 40
p0 0.7675 ± 0.00943
pull
Entries 41
Mean 82.03
Std Dev 0
pull1D
Entries 41
Mean 0.5875
Std Dev 5.322

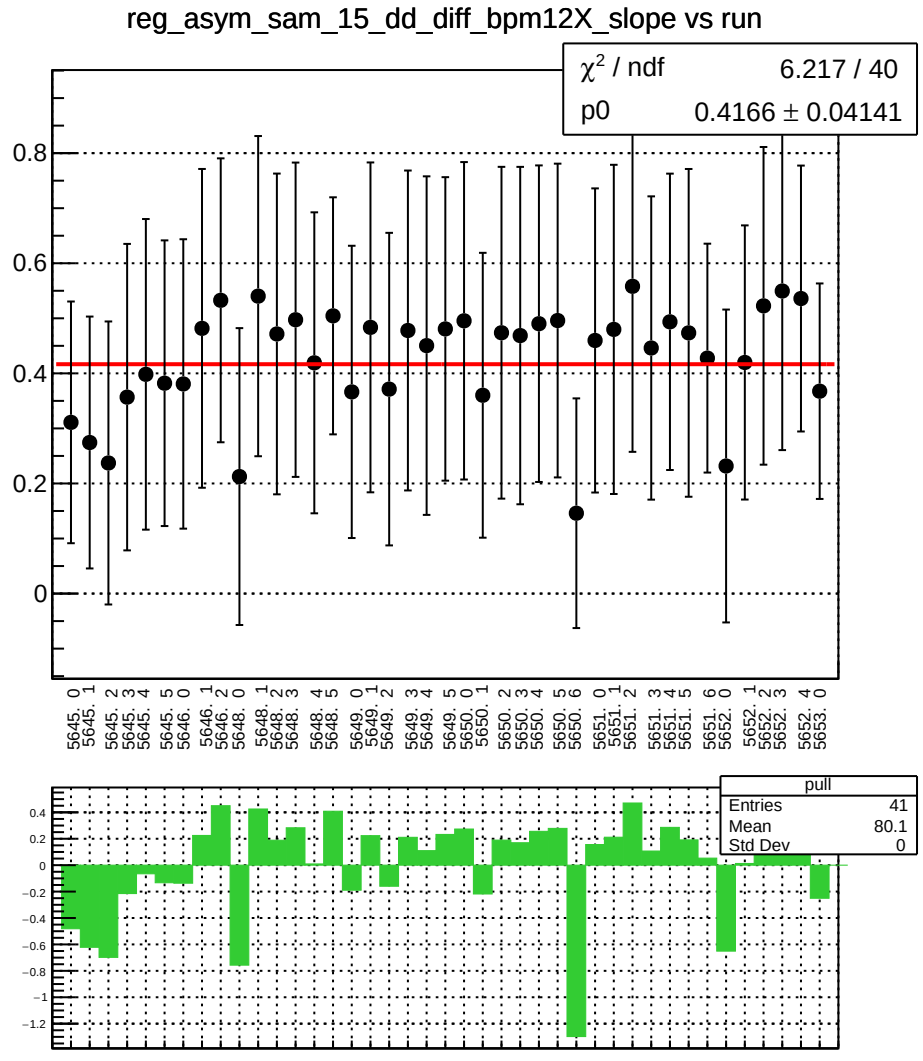

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.207 / 40
p0 3.307 ± 1.179
pull
Entries 41
Mean −1.274
Std Dev 53.71

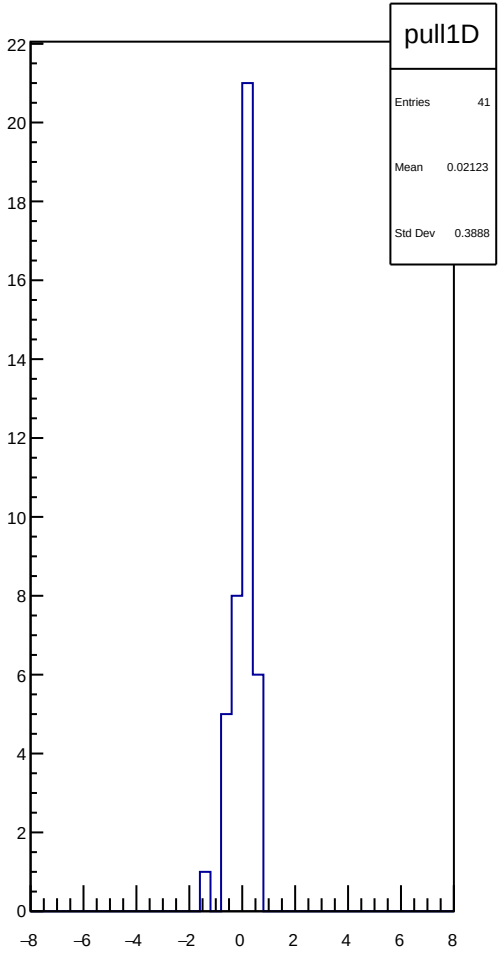

pull1D
Entries 41
Mean −0.00137
Std Dev 0.2797

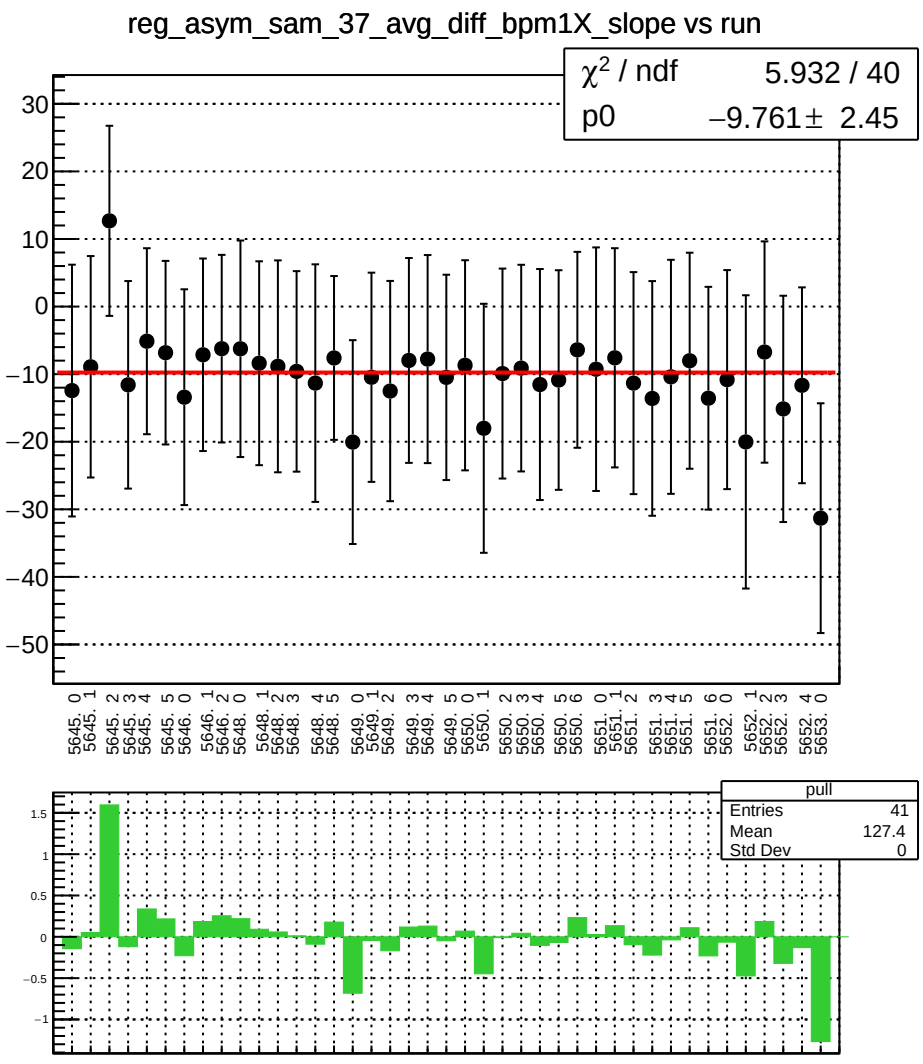

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.79 / 40
p0 −75.66 ± 0.9763
−50
−60
−70
−80
−90
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.82
Std Dev 8.817
5
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.238
Std Dev 1.392
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

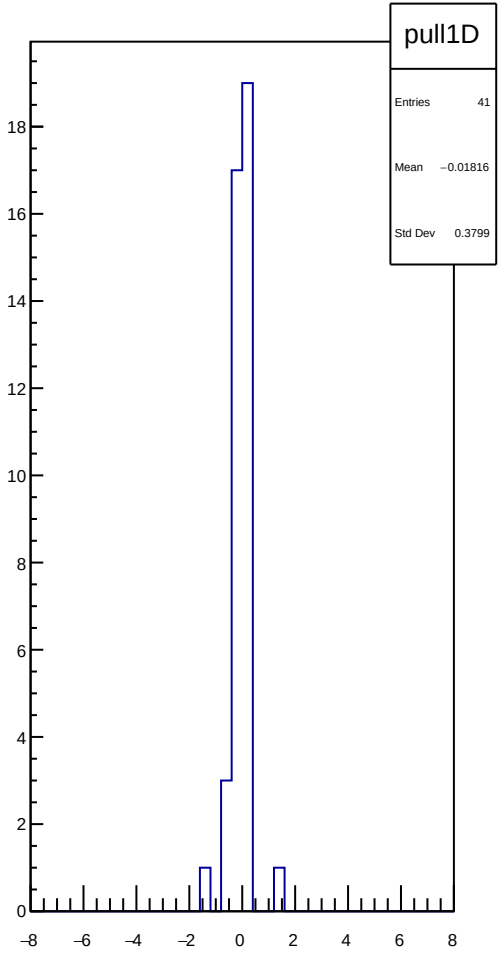

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.978 / 40
p0 −6.588 ± 1.018
pull
Entries 41
Mean −59.72
Std Dev 0
pull1D
Entries 41
Mean 0.002279
Std Dev 0.2695

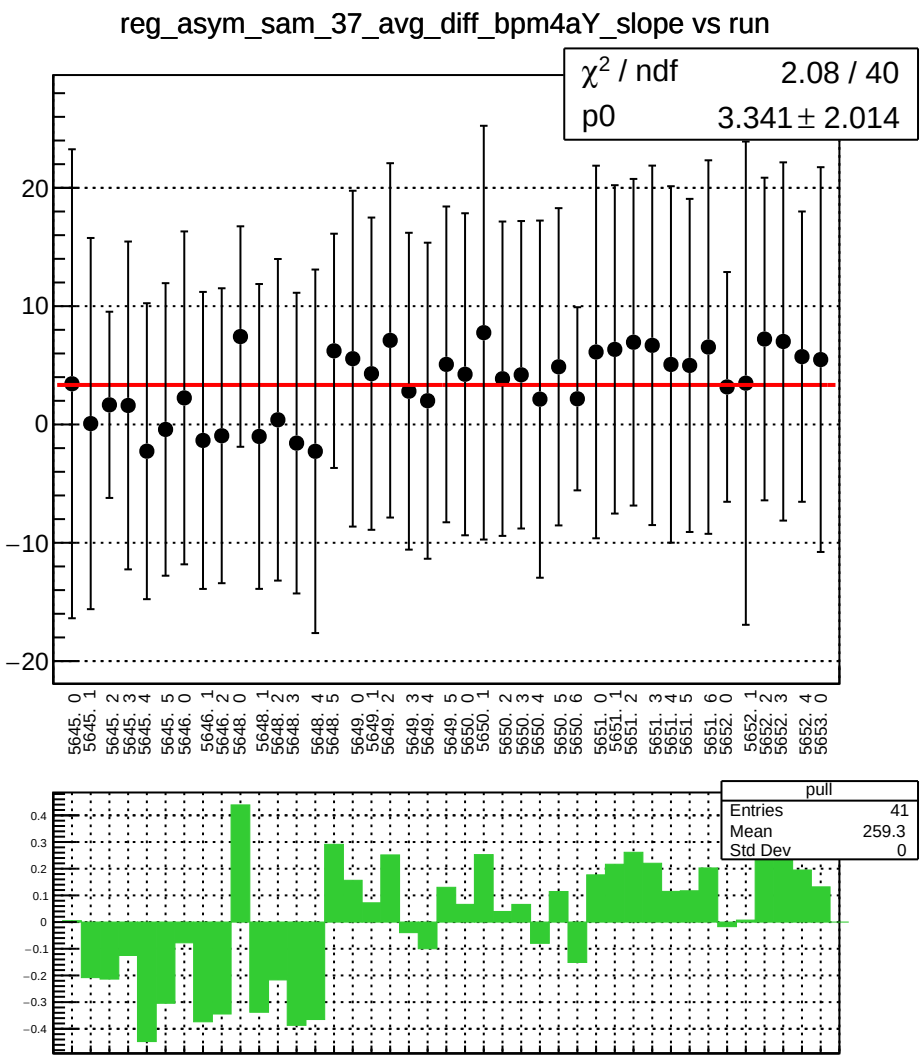

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.81 / 40
p0 3.564 ± 1.227
pull
Entries 41
Mean 31.74
Std Dev 7.181
pull1D
Entries 41
Mean 0.229
Std Dev 1.385

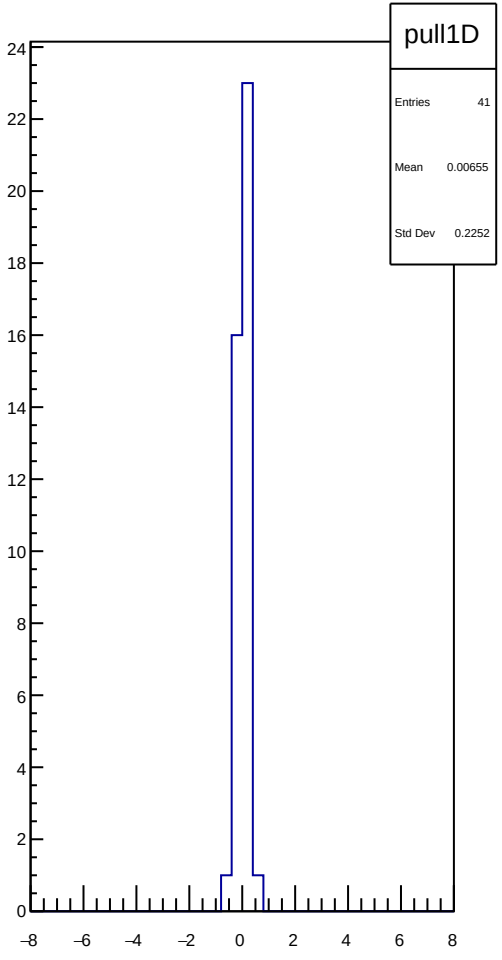

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 6.217 / 40
p0 0.4166 ± 0.04141
pull
Entries 41
Mean 80.1
Std Dev 0

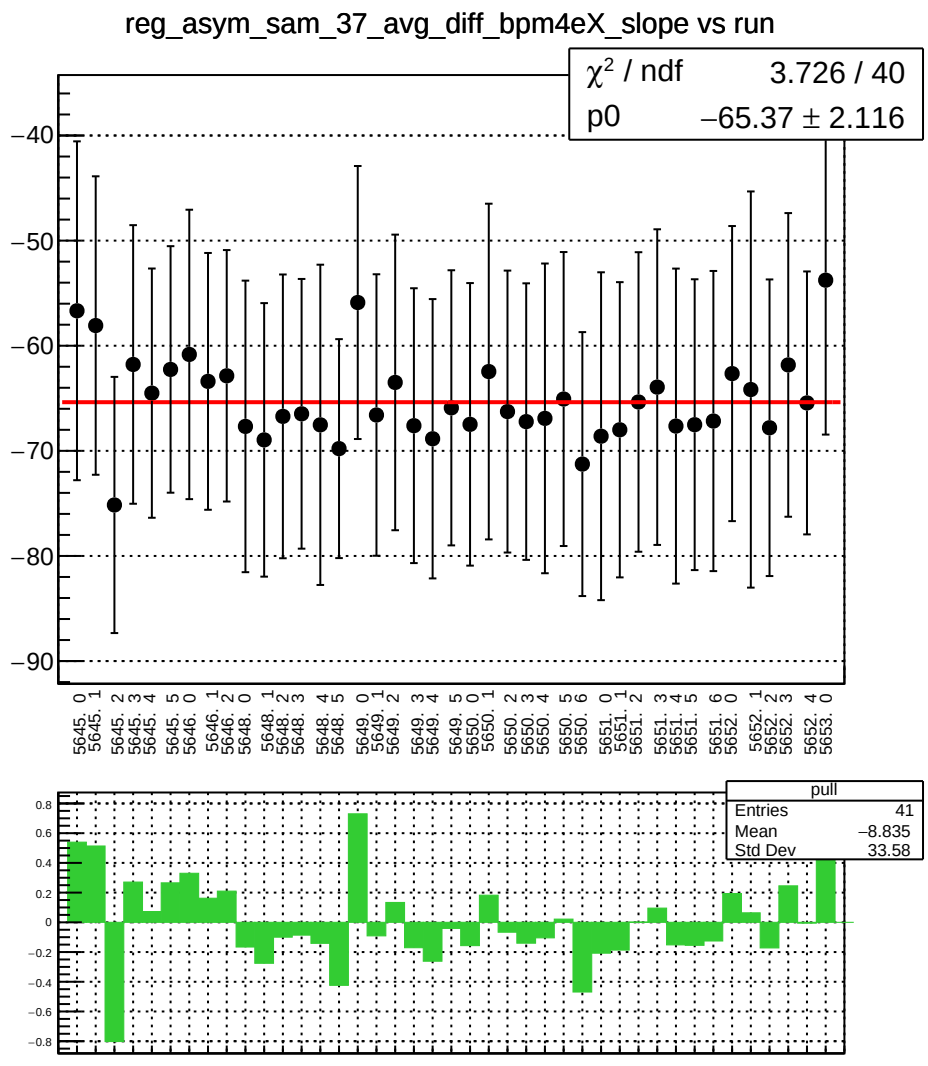

pull1D
Entries 41
Mean 0.02123
Std Dev 0.3888

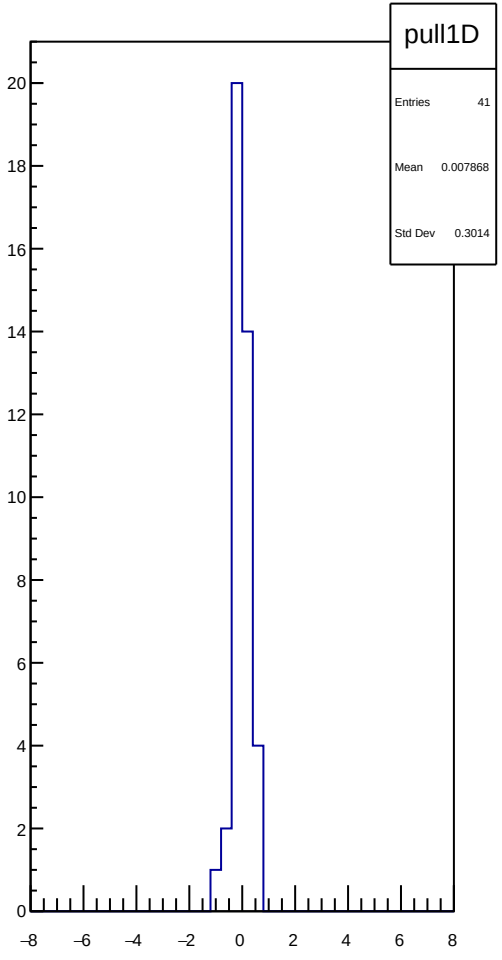

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.932 / 40
p0 −9.761± 2.45
pull
Entries 41
Mean 127.4
Std Dev 0

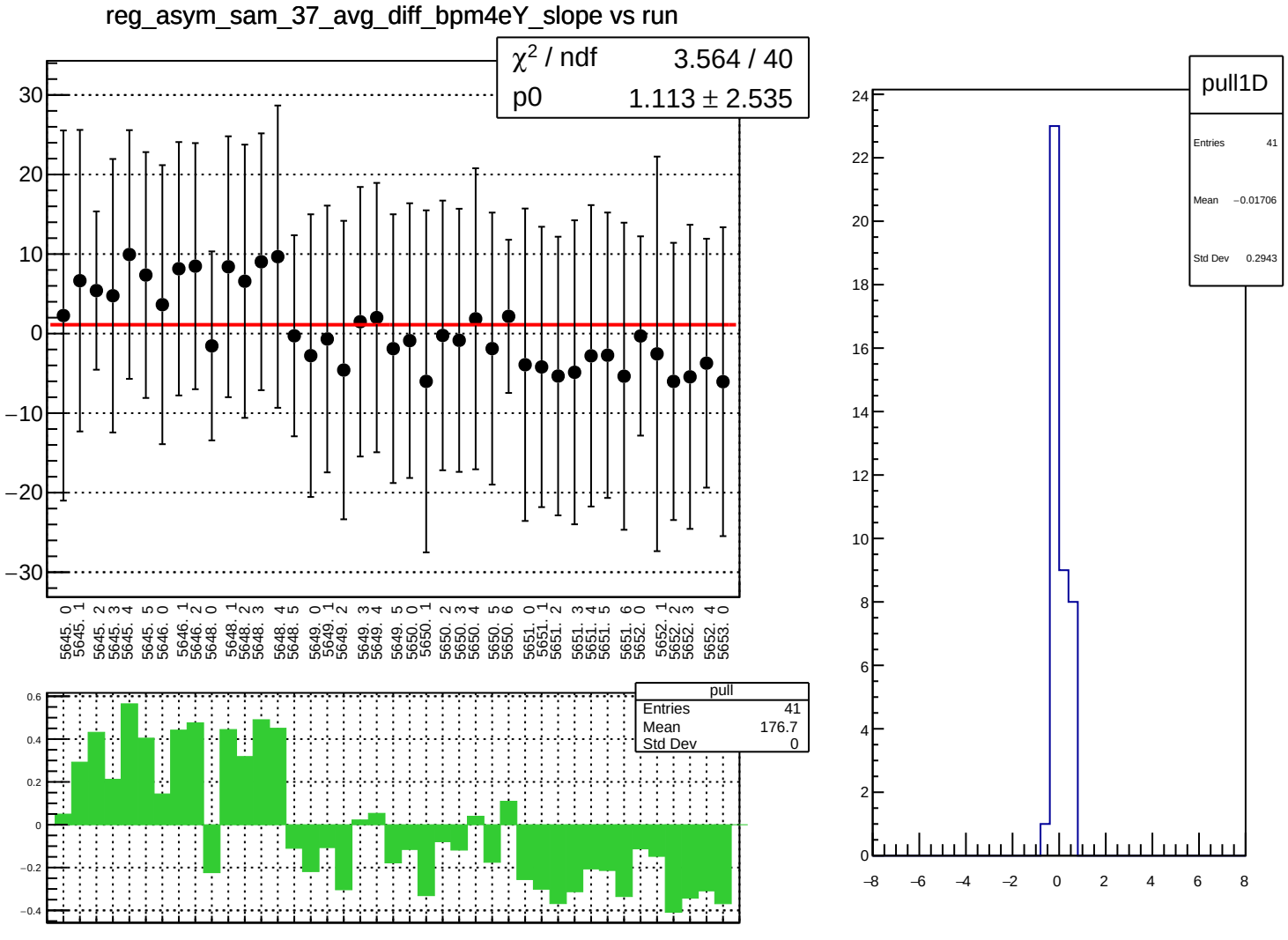

pull1D
Entries 41
Mean −0.01816
Std Dev 0.3799

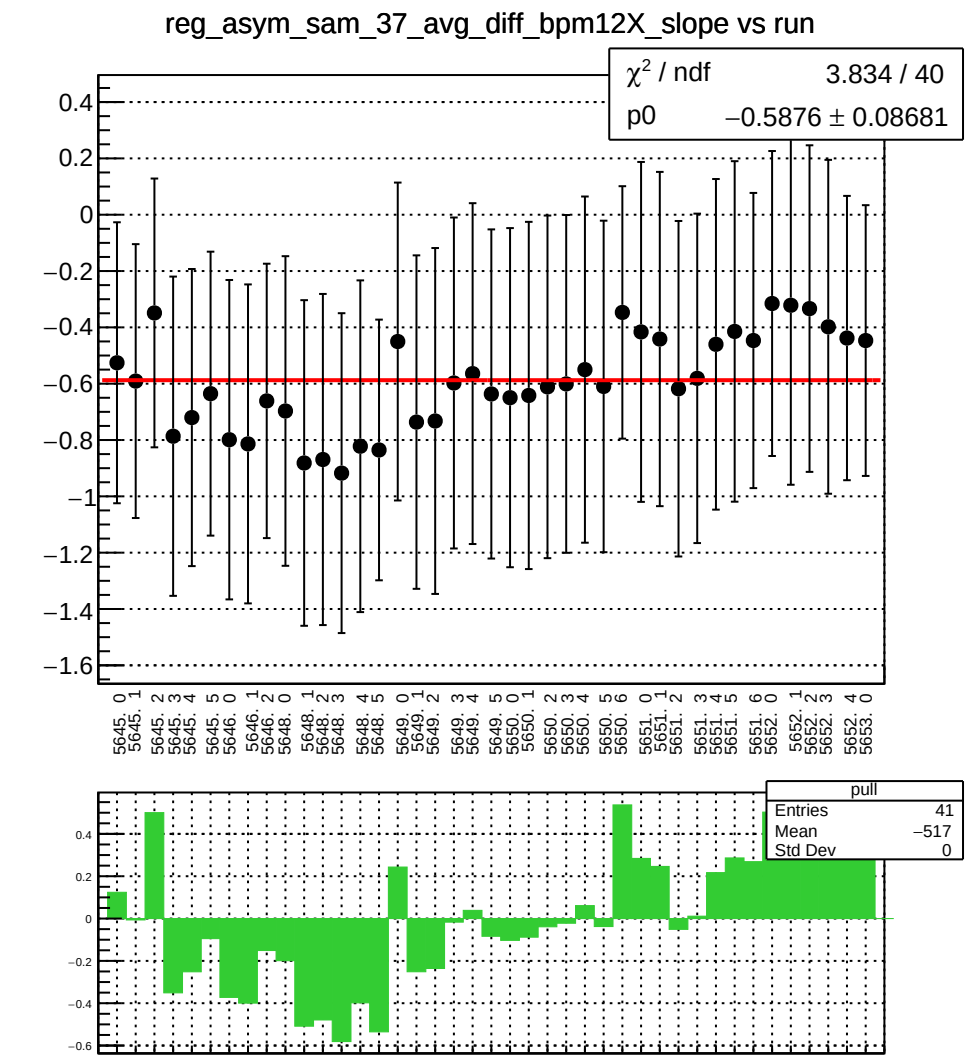

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.08 / 40
p0 3.341 ± 2.014
pull
Entries 41
Mean 259.3
Std Dev 0

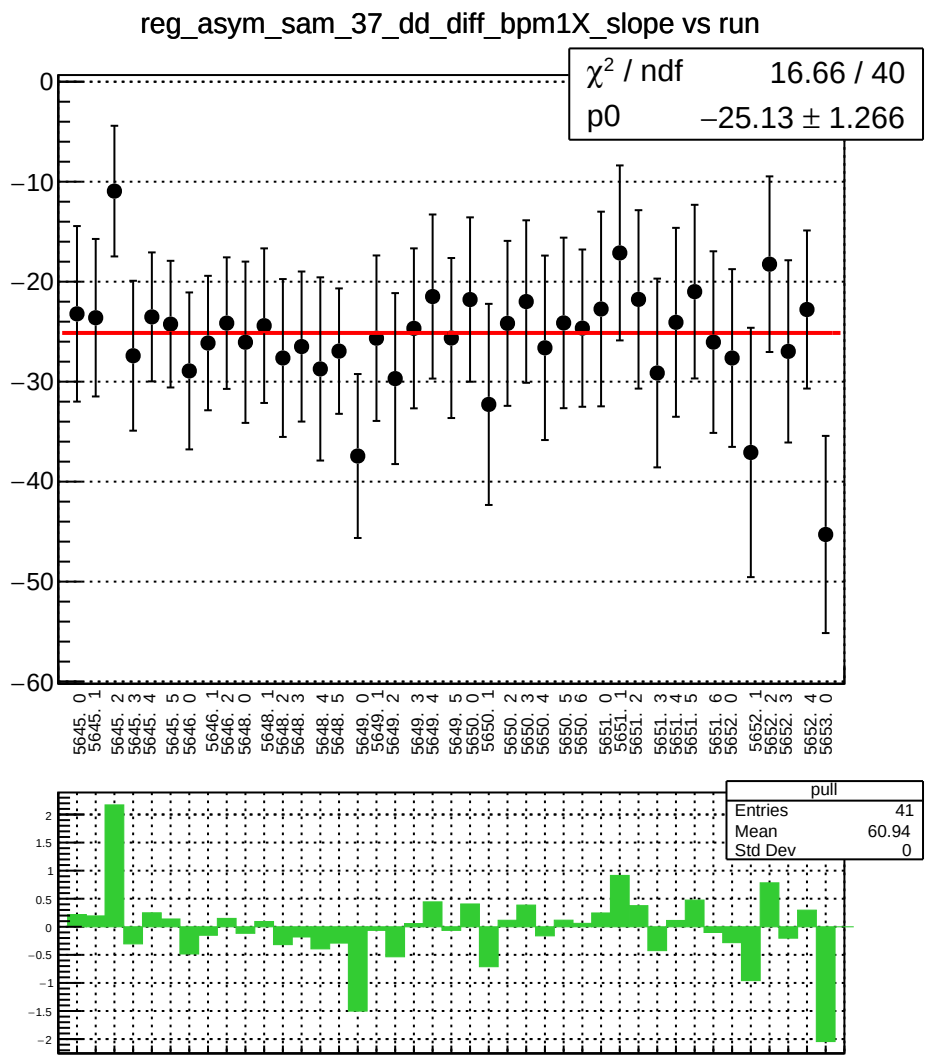

pull1D
Entries 41
Mean 0.00655
Std Dev 0.2252

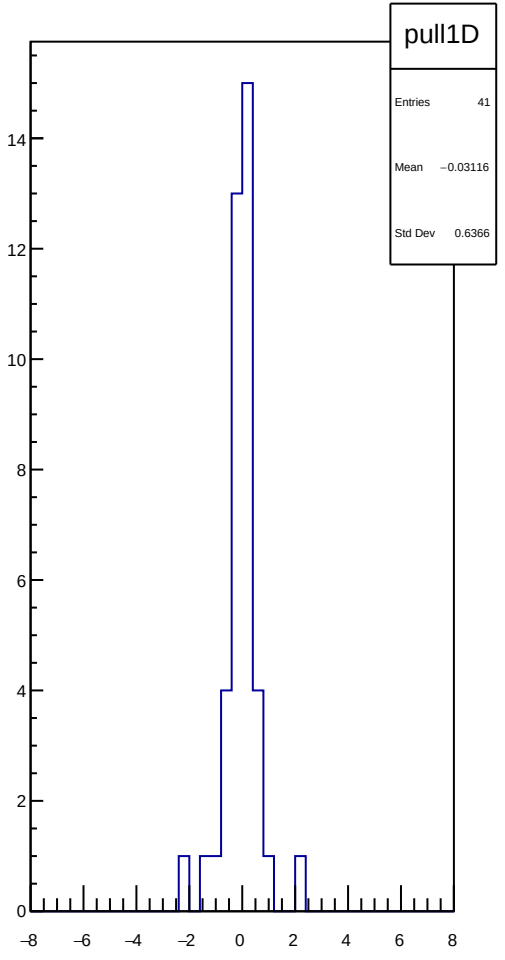

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.726 / 40
p0 −65.37 ± 2.116
pull
Entries 41
Mean −8.835
Std Dev 33.58

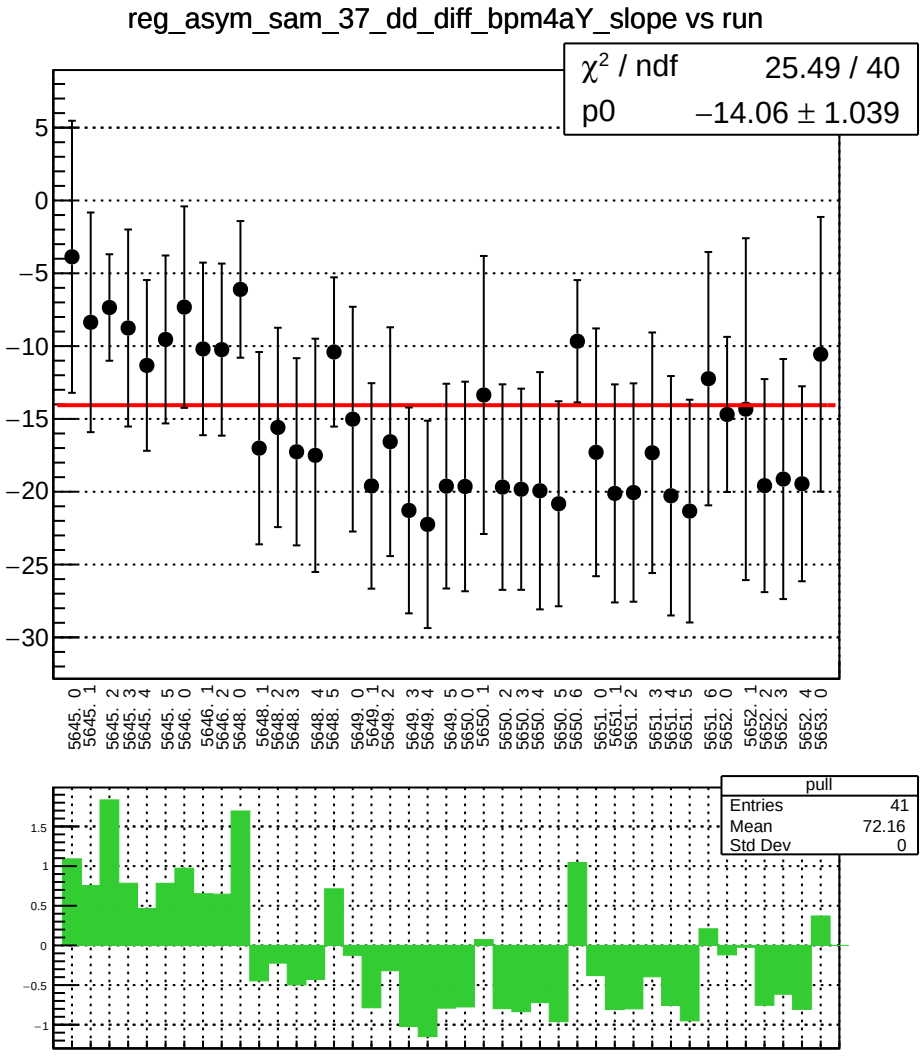

pull1D
Entries 41
Mean 0.007868
Std Dev 0.3014

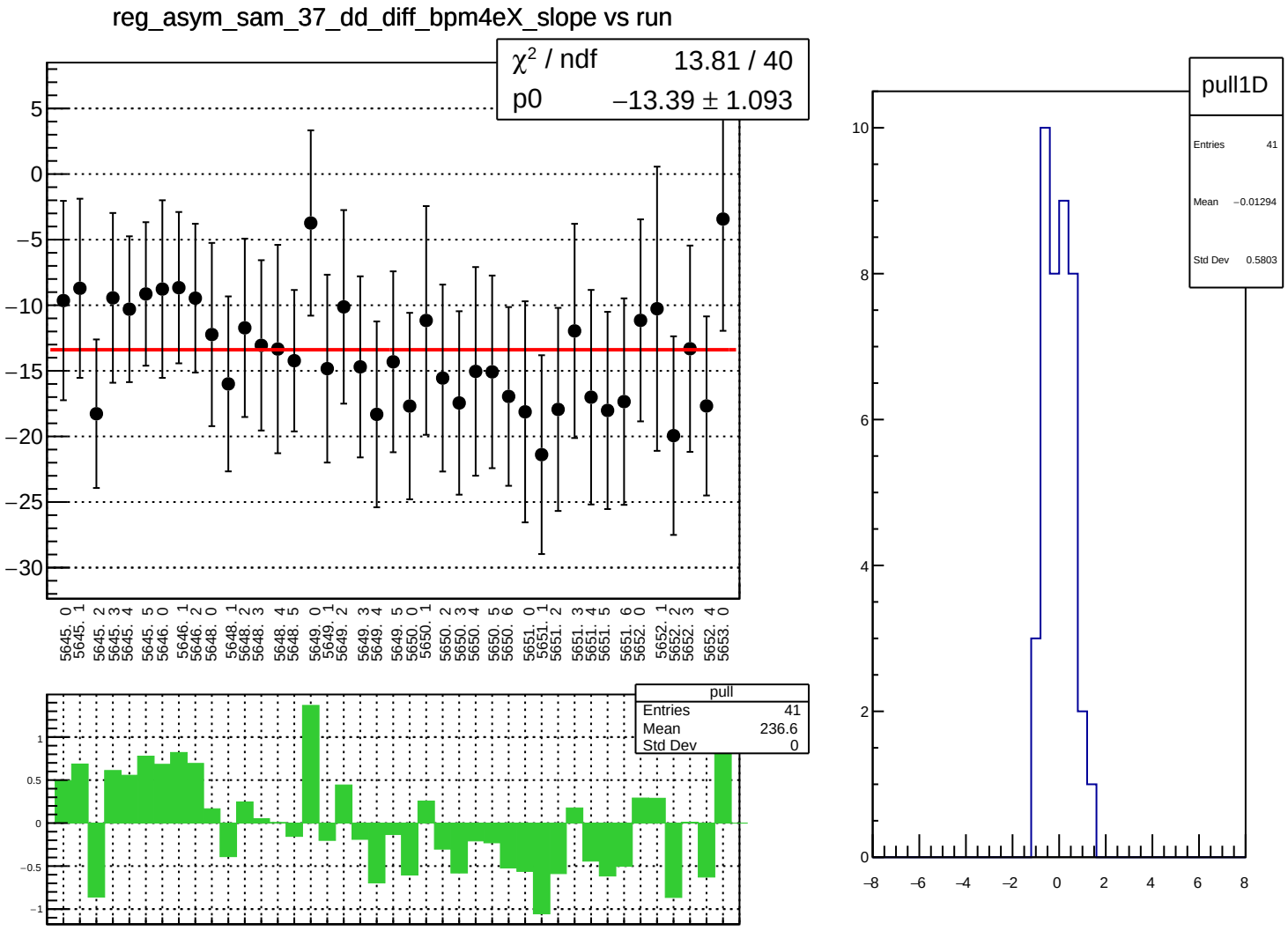

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.564 / 40
p0 1.113 ± 2.535
pull
Entries 41
Mean 176.7
Std Dev 0
pull1D
Entries 41
Mean −0.01706
Std Dev 0.2943

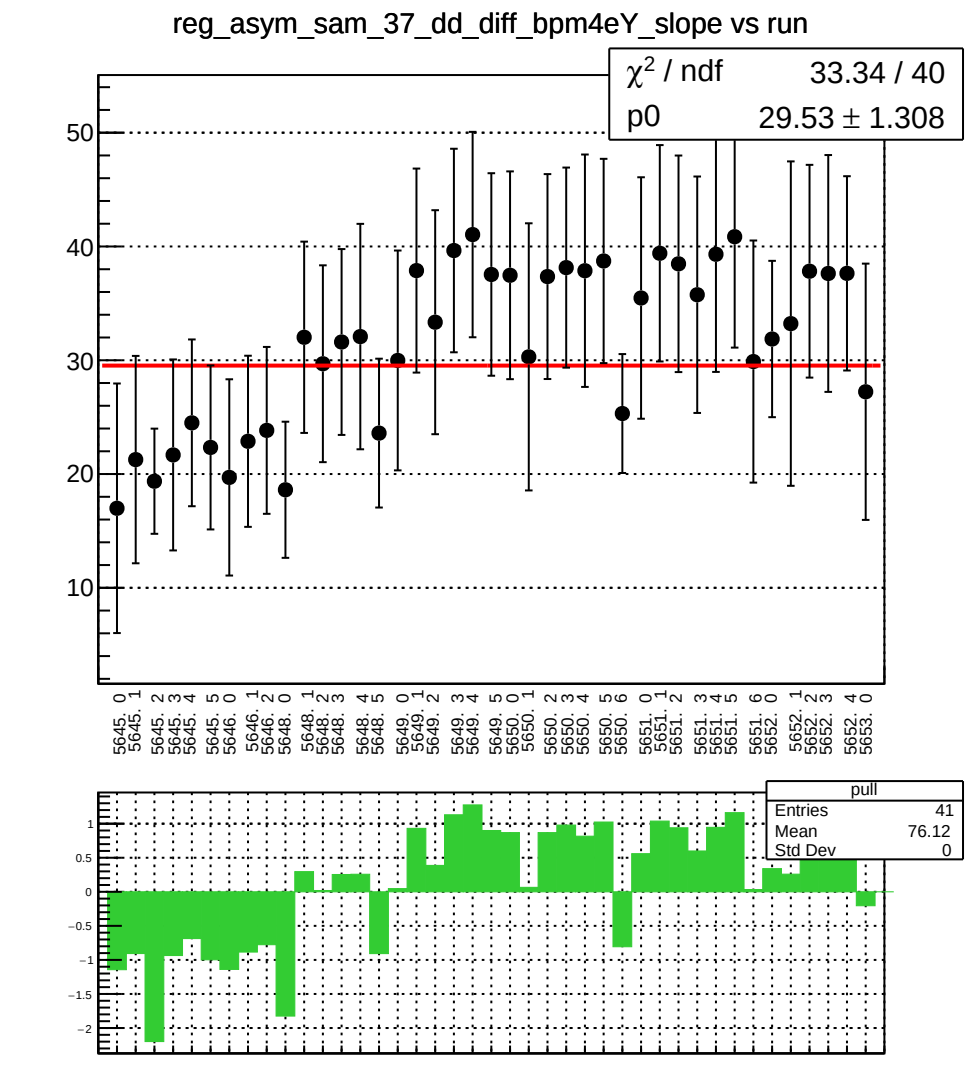

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.834 / 40
p0 −0.5876 ± 0.08681
pull
Entries 41
Mean −517
Std Dev 0
pull1D
Entries 41
Mean −0.00415
Std Dev 0.3058

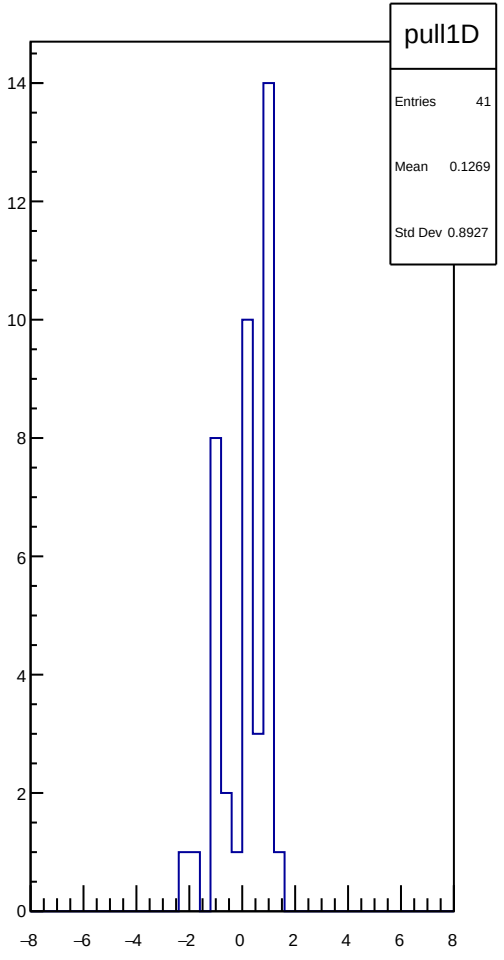

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 16.66 / 40
p0 −25.13 ± 1.266
pull
Entries 41
Mean 60.94
Std Dev 0

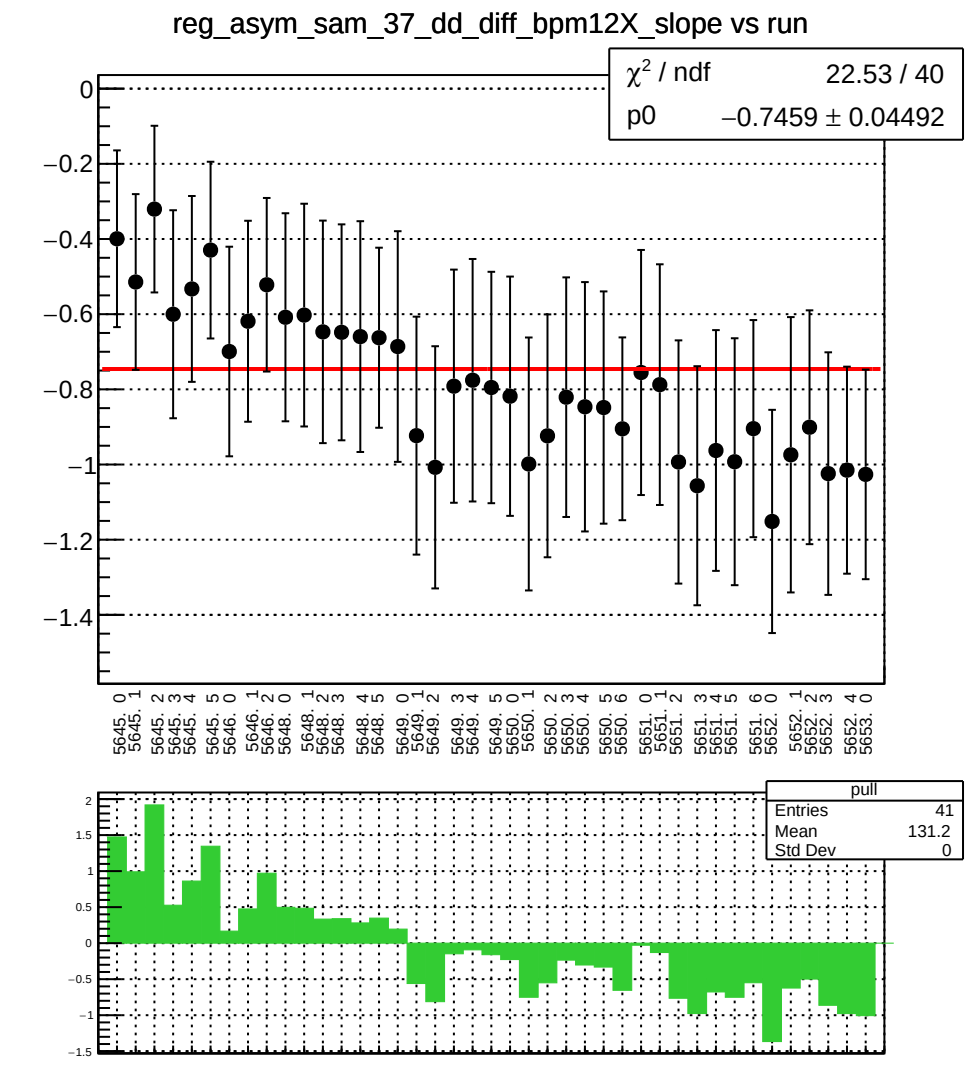

pull1D
Entries 41
Mean −0.03116
Std Dev 0.6366

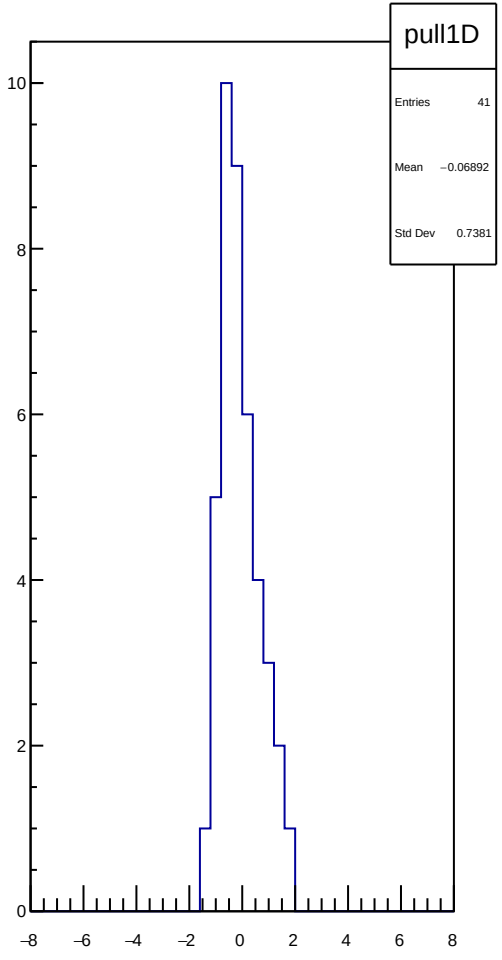

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.49 / 40
p0 −14.06 ± 1.039
pull
Entries 41
Mean 72.16
Std Dev 0
pull1D
Entries 41
Mean −0.1023
Std Dev 0.7819

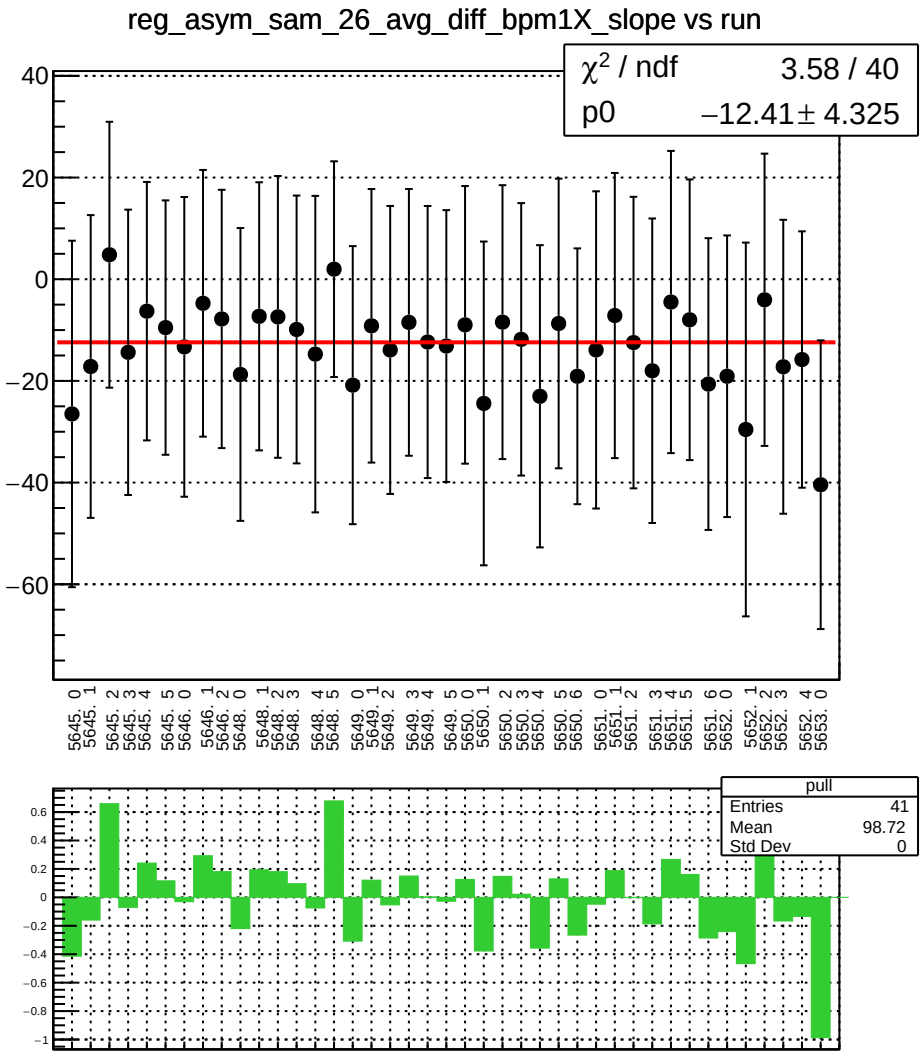

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.81 / 40
p0 −13.39 ± 1.093
pull
Entries 41
Mean 236.6
Std Dev 0
pull1D
Entries 41
Mean −0.01294
Std Dev 0.5803

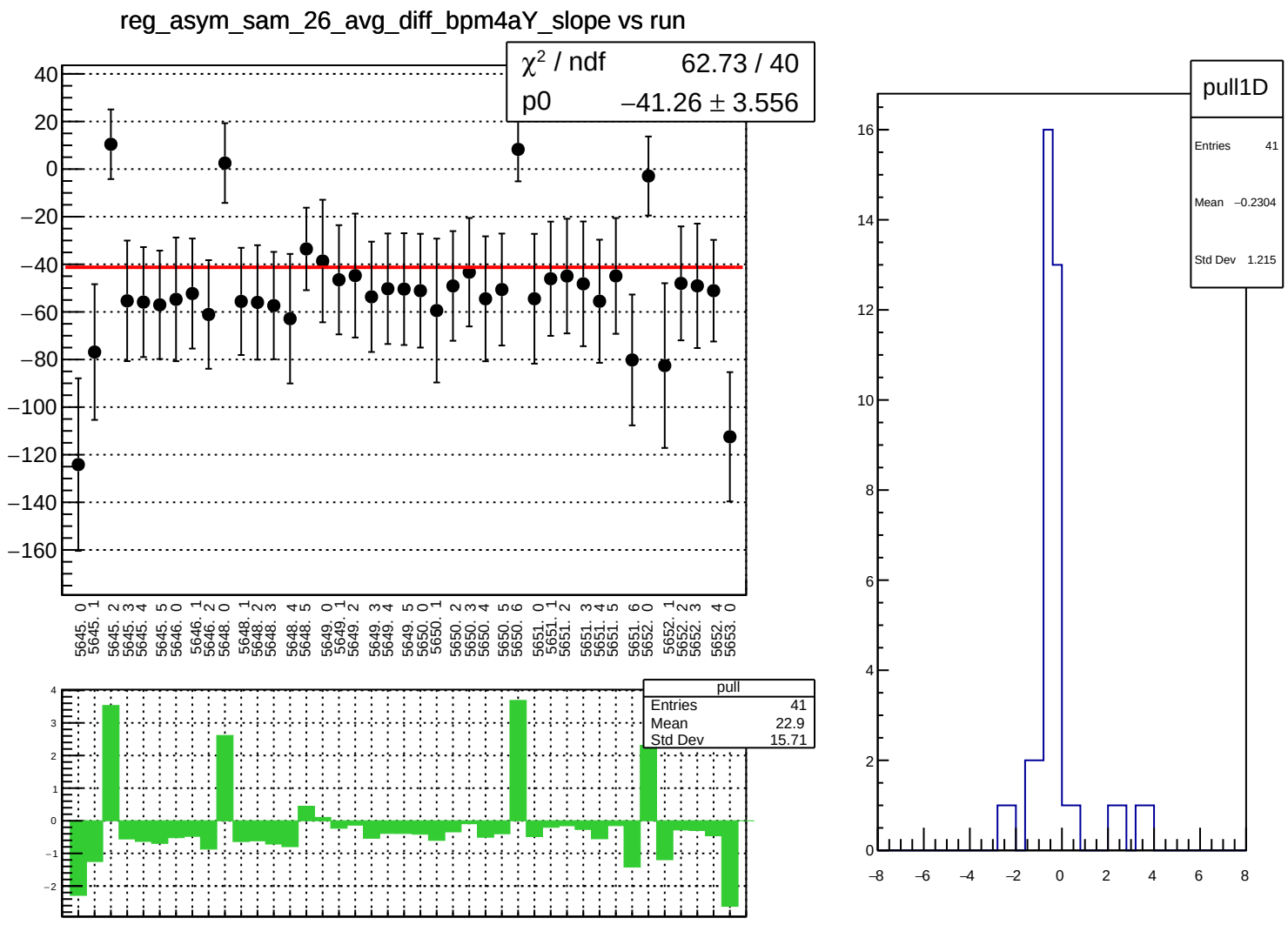

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.34 / 40
p0 29.53 ± 1.308
pull
Entries 41
Mean 76.12
Std Dev 0

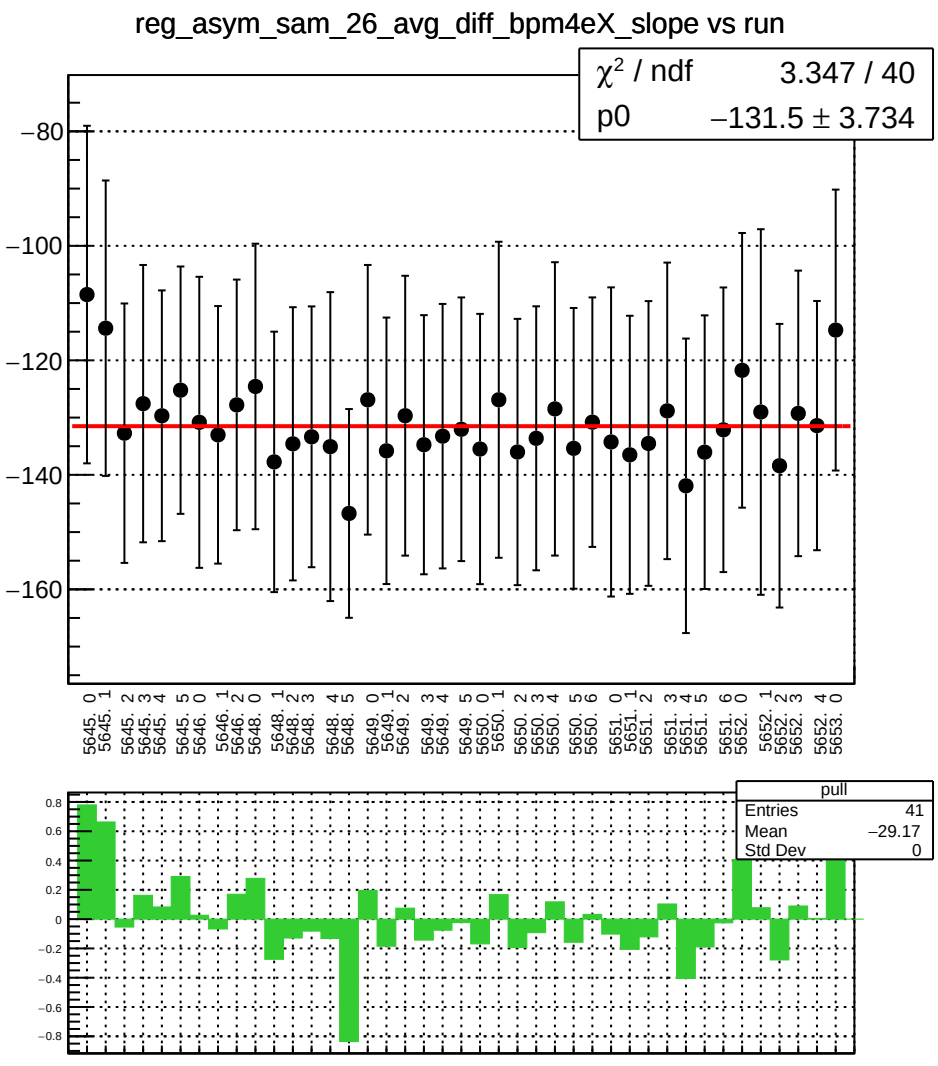

pull1D
Entries 41
Mean 0.1269
Std Dev 0.8927

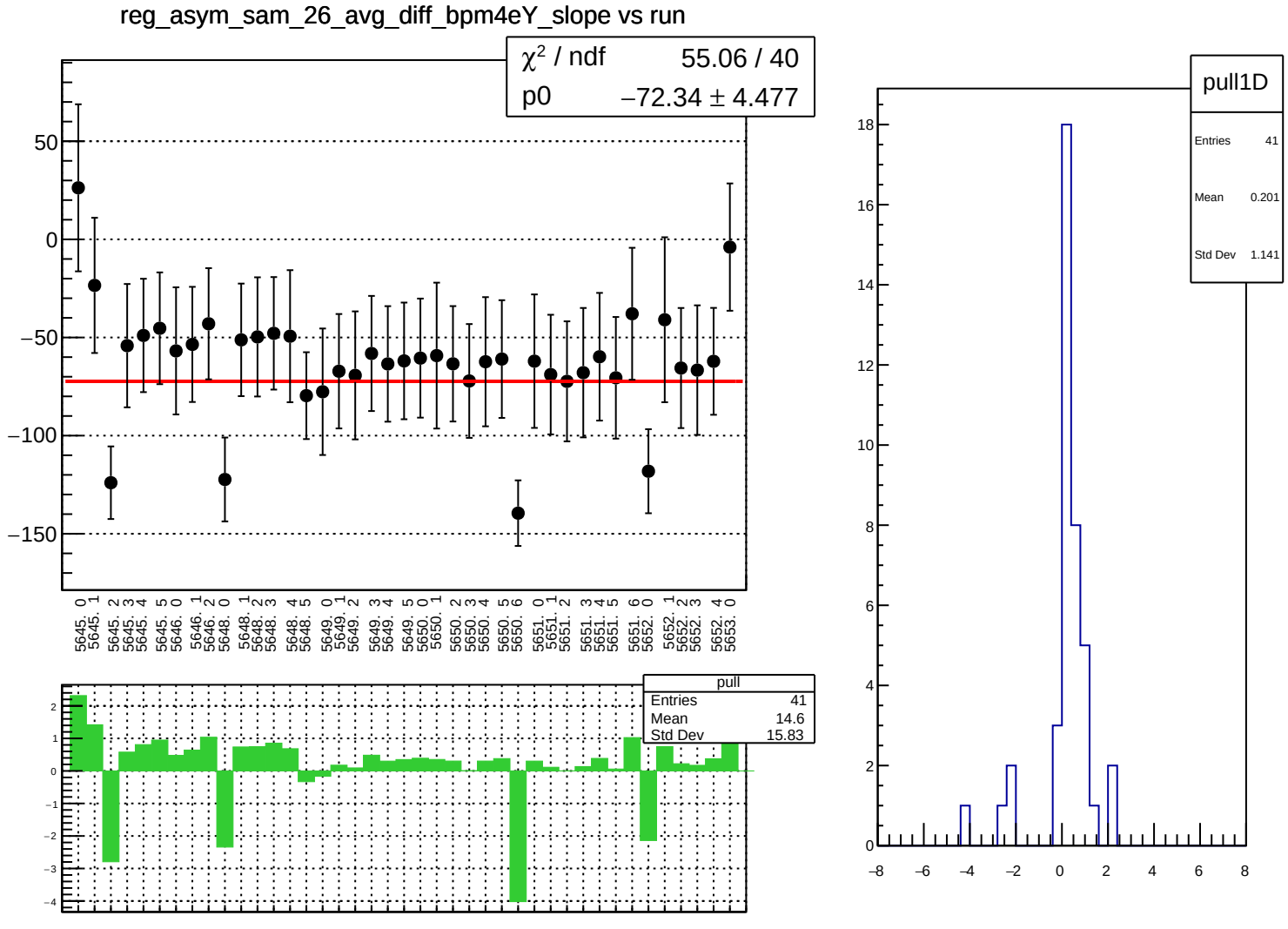

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 22.53 / 40
p0 −0.7459 ± 0.04492
pull
Entries 41
Mean 131.2
Std Dev 0

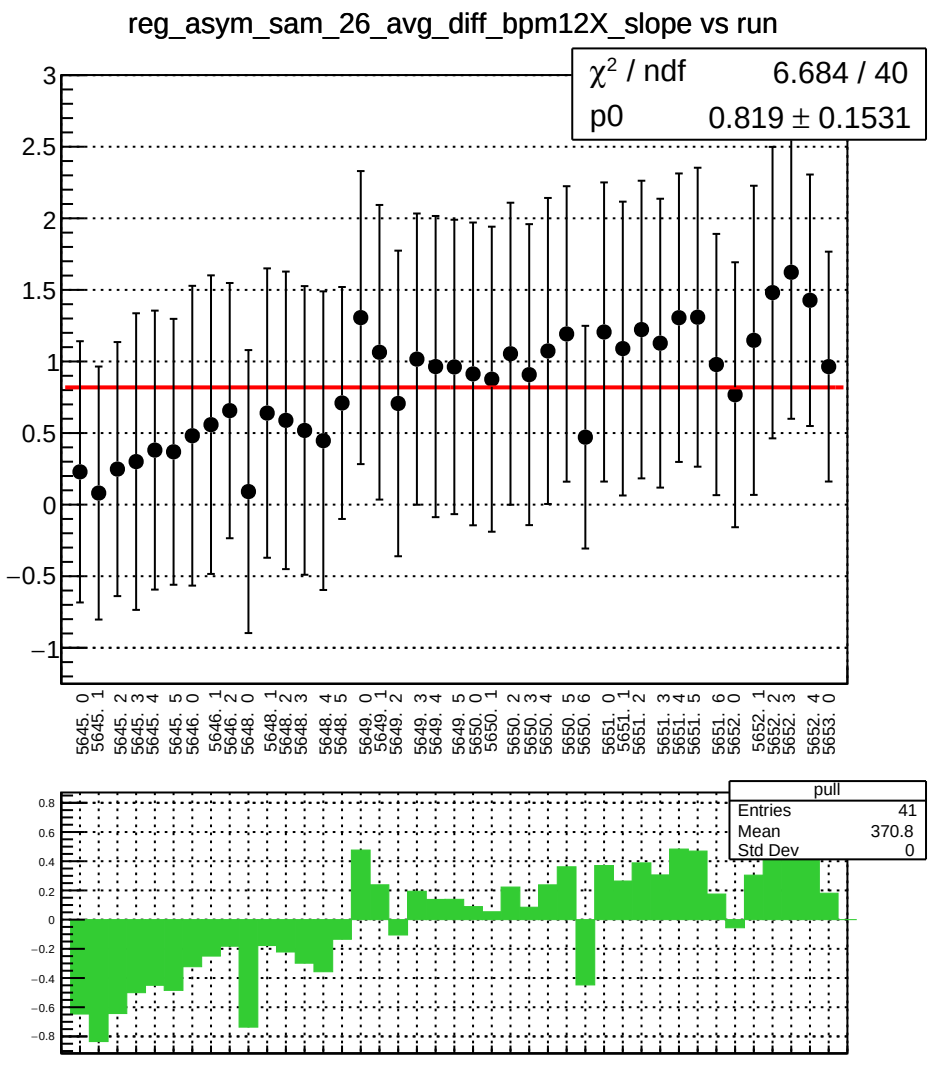

pull1D
Entries 41
Mean −0.06892
Std Dev 0.7381

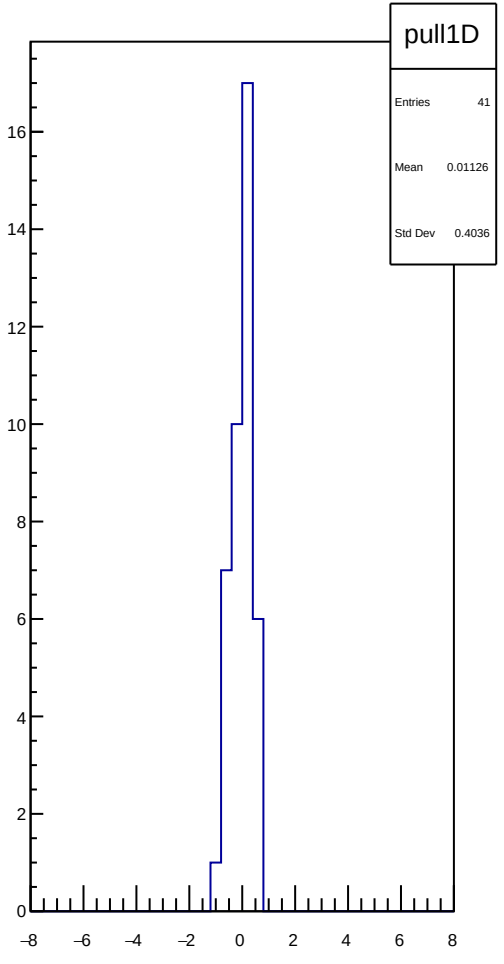

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.58 / 40
p0 −12.41± 4.325
pull
Entries 41
Mean 98.72
Std Dev 0
pull1D
Entries 41
Mean −0.01525
Std Dev 0.2951

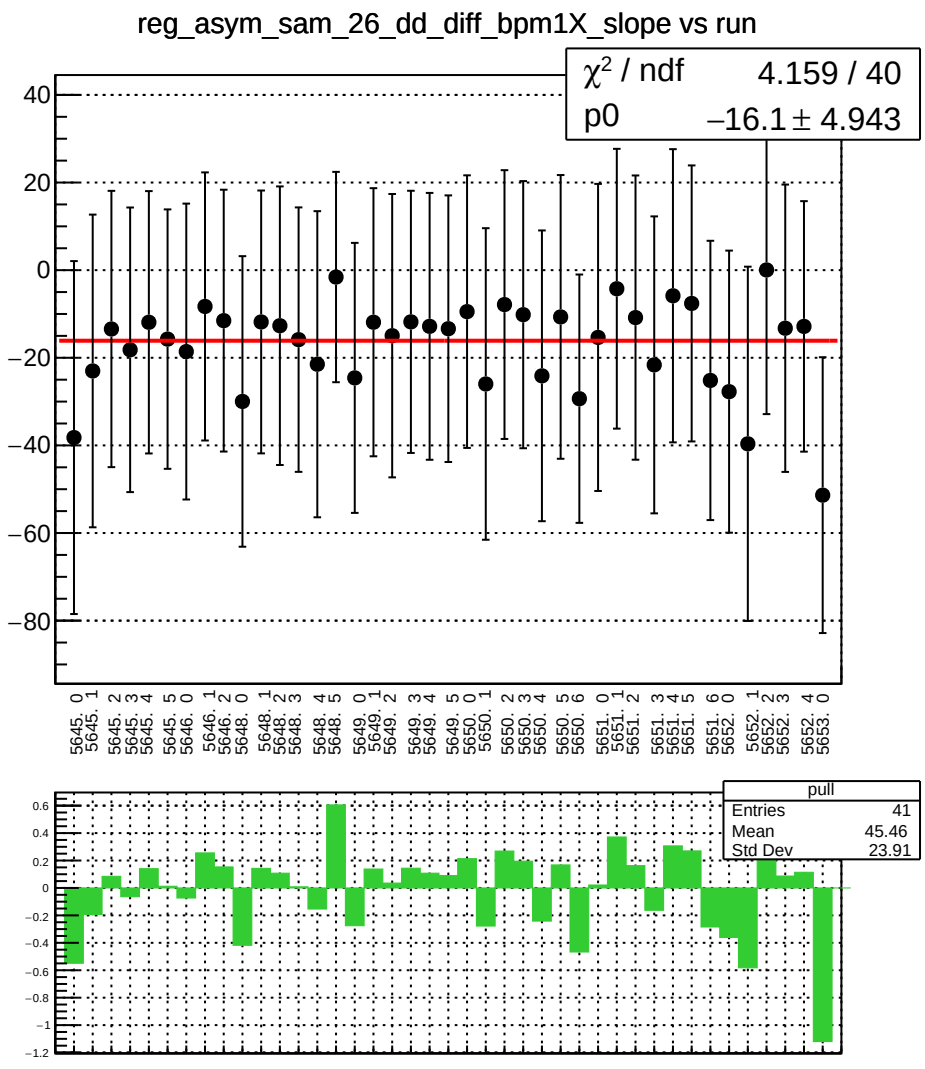

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.73 / 40
p0 −41.26 ± 3.556
pull
Entries 41
Mean 22.9
Std Dev 15.71
pull1D
Entries 41
Mean −0.2304
Std Dev 1.215

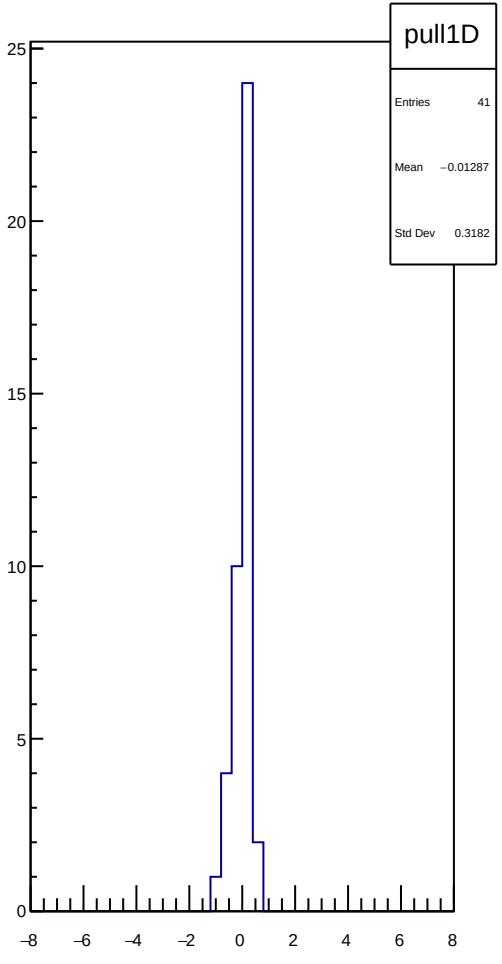

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.347 / 40
p0 −131.5 ± 3.734
−80
−100
−120
−140
−160
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −29.17
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01141
Std Dev 0.2855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

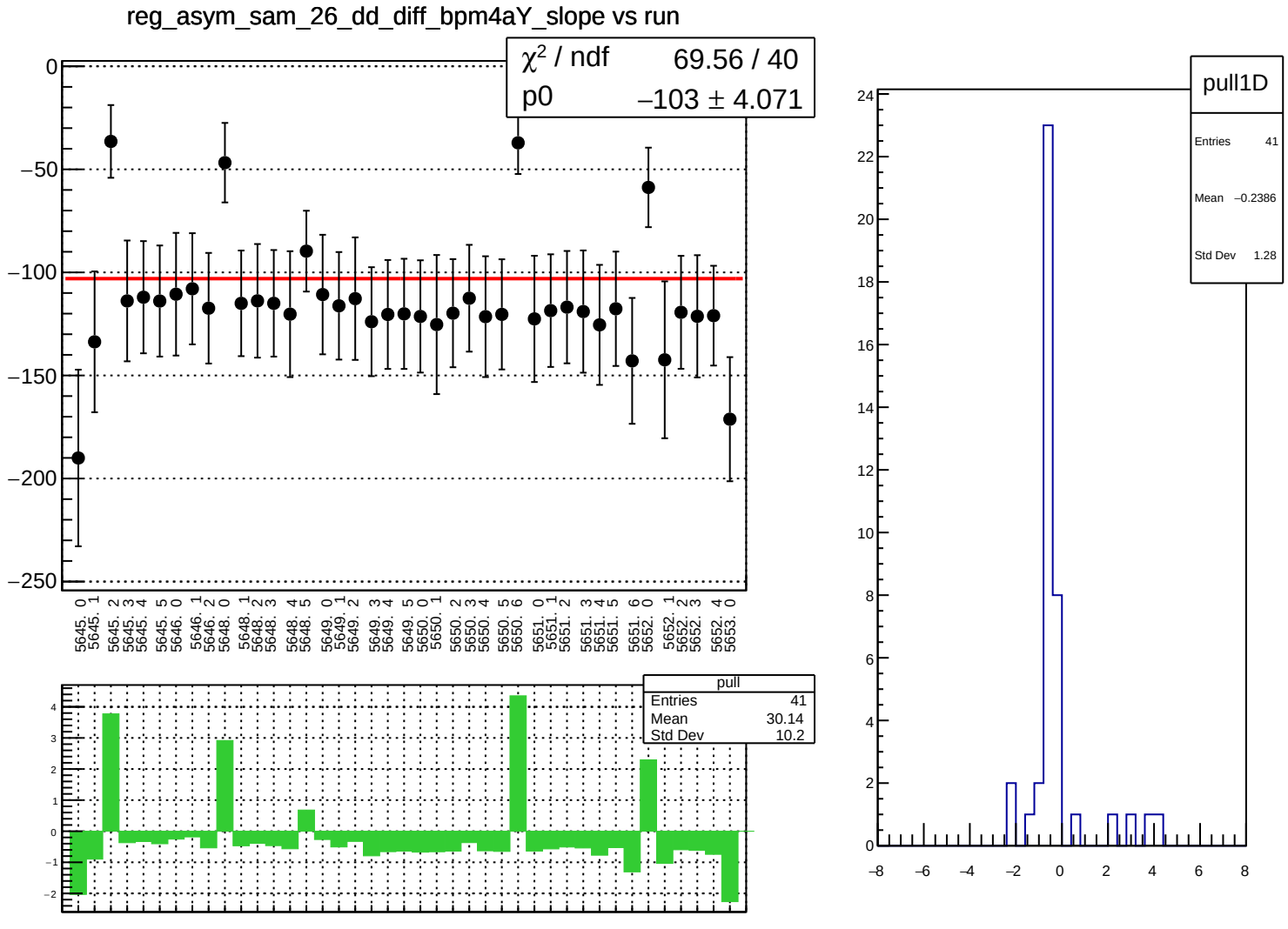

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.06 / 40
p0 −72.34 ± 4.477
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.6
Std Dev 15.83
2
1
0
−1
−2
−3
−4
pull1D
Entries 41
Mean 0.201
Std Dev 1.141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

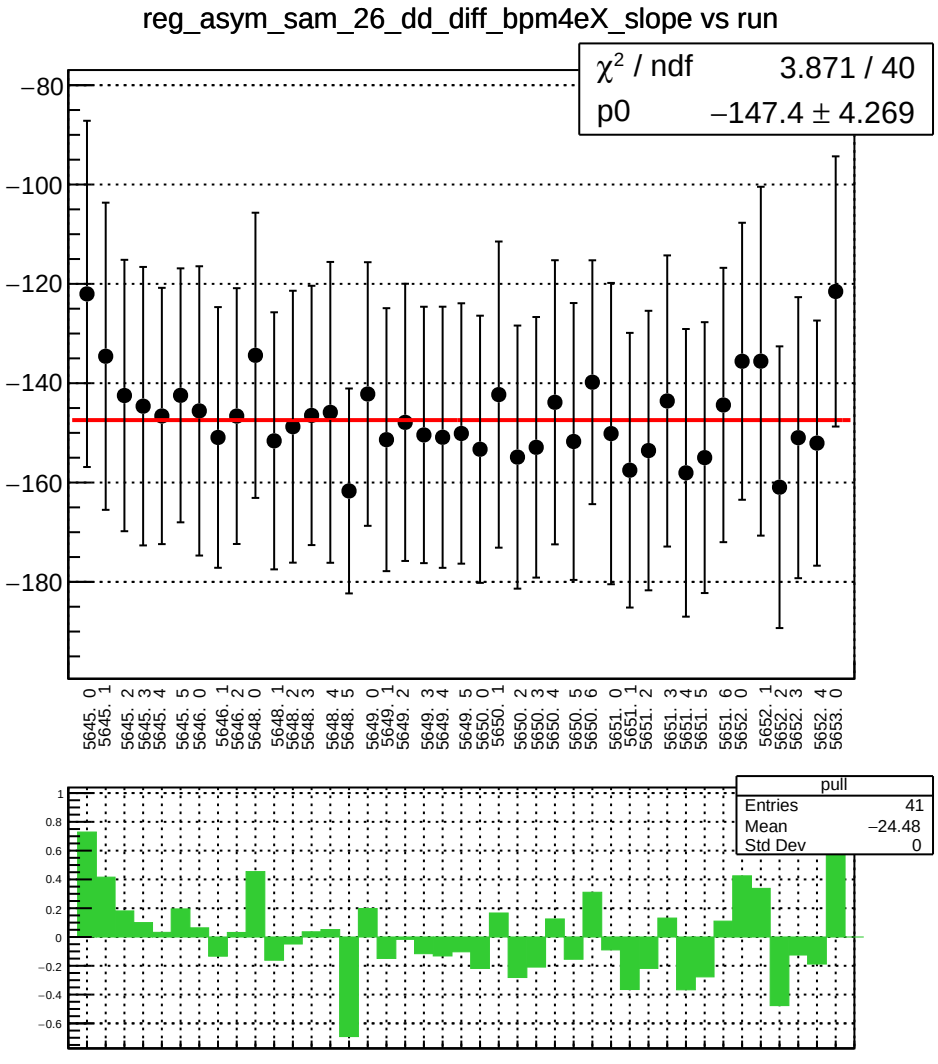

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 6.684 / 40
p0 0.819 ± 0.1531
pull
Entries 41
Mean 370.8
Std Dev 0

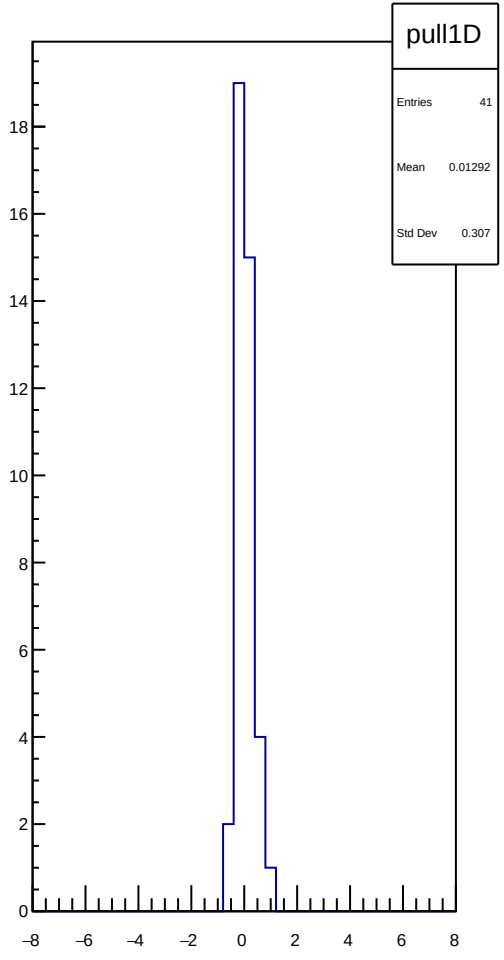

pull1D
Entries 41
Mean 0.01126
Std Dev 0.4036

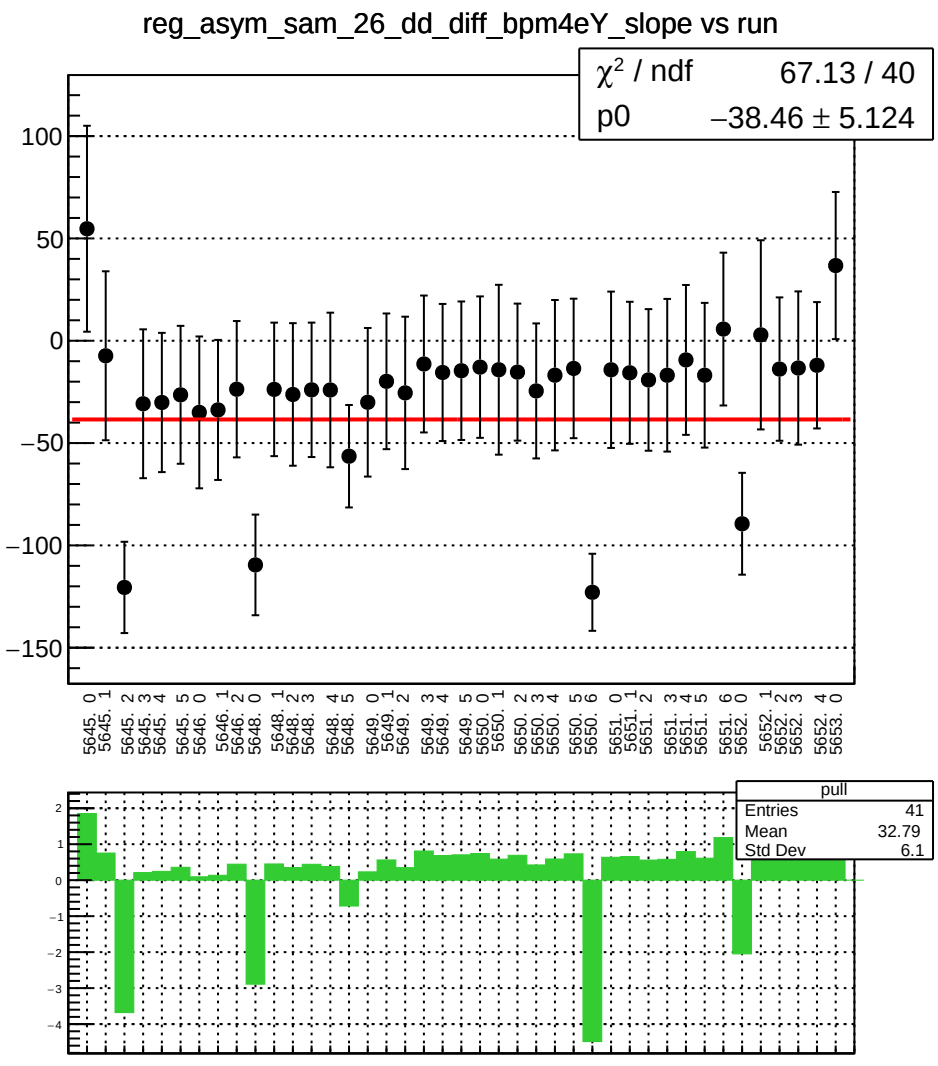

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.159 / 40
p0 −16.1 ± 4.943
pull
Entries 41
Mean 45.46
Std Dev 23.91

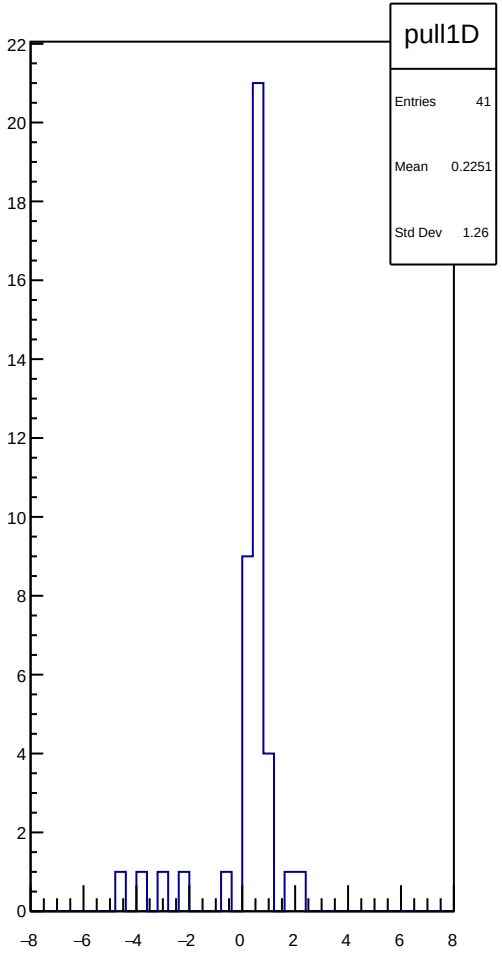

pull1D
Entries 41
Mean −0.01287
Std Dev 0.3182

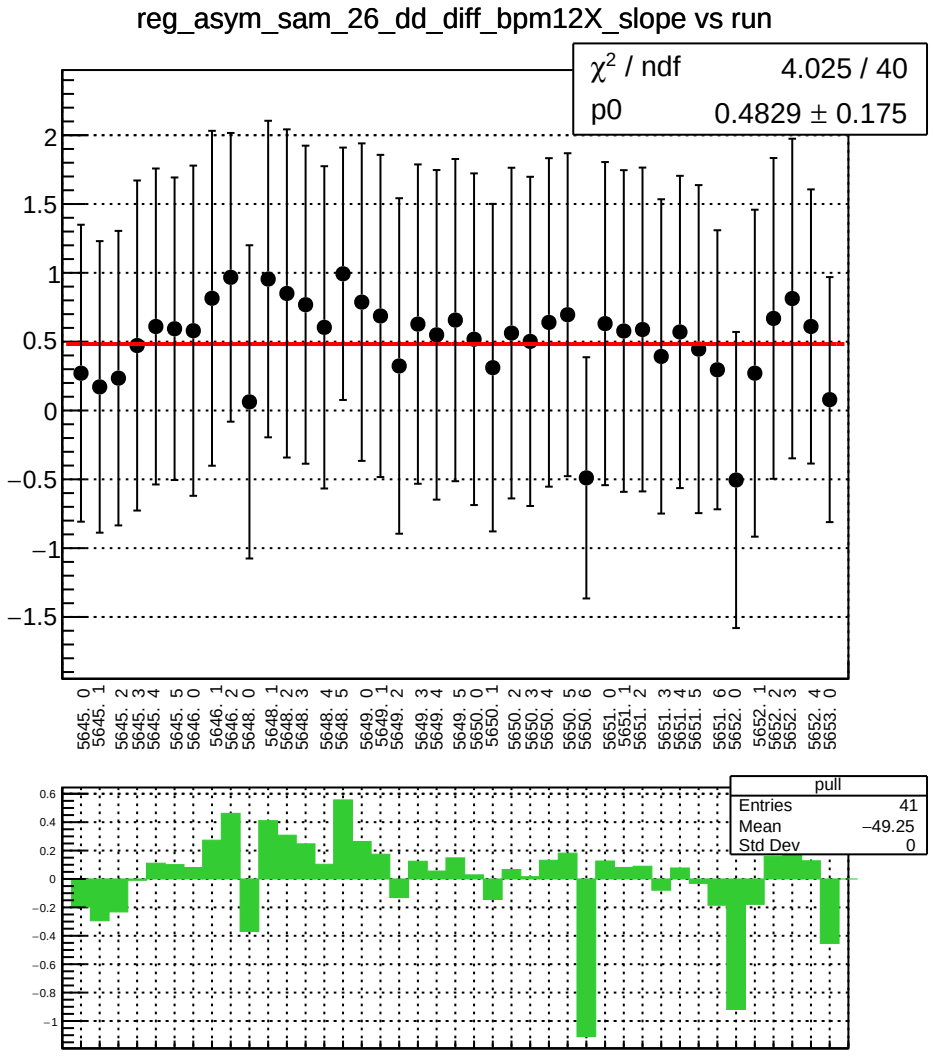

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.56 / 40
p0 −103 ± 4.071
pull
Entries 41
Mean 30.14
Std Dev 10.2
pull1D
Entries 41
Mean −0.2386
Std Dev 1.28

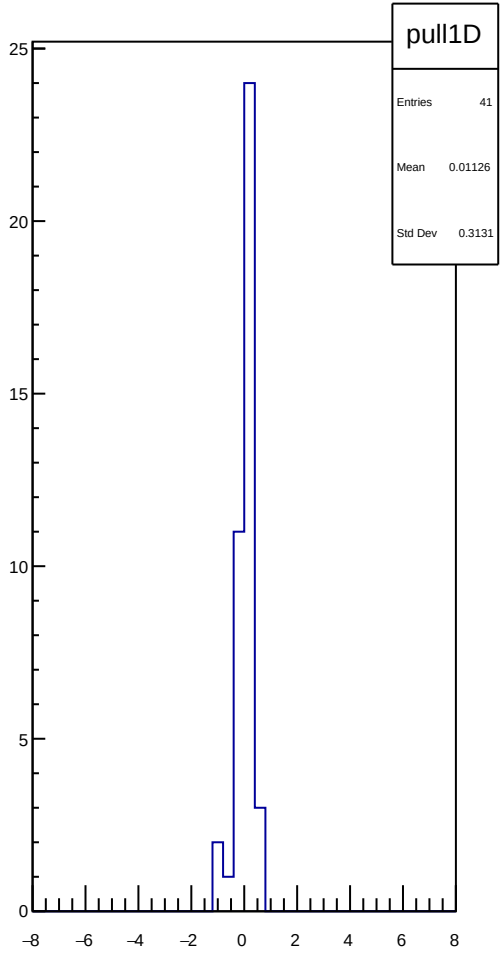

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.871 / 40
p0 −147.4 ± 4.269
pull
Entries 41
Mean −24.48
Std Dev 0

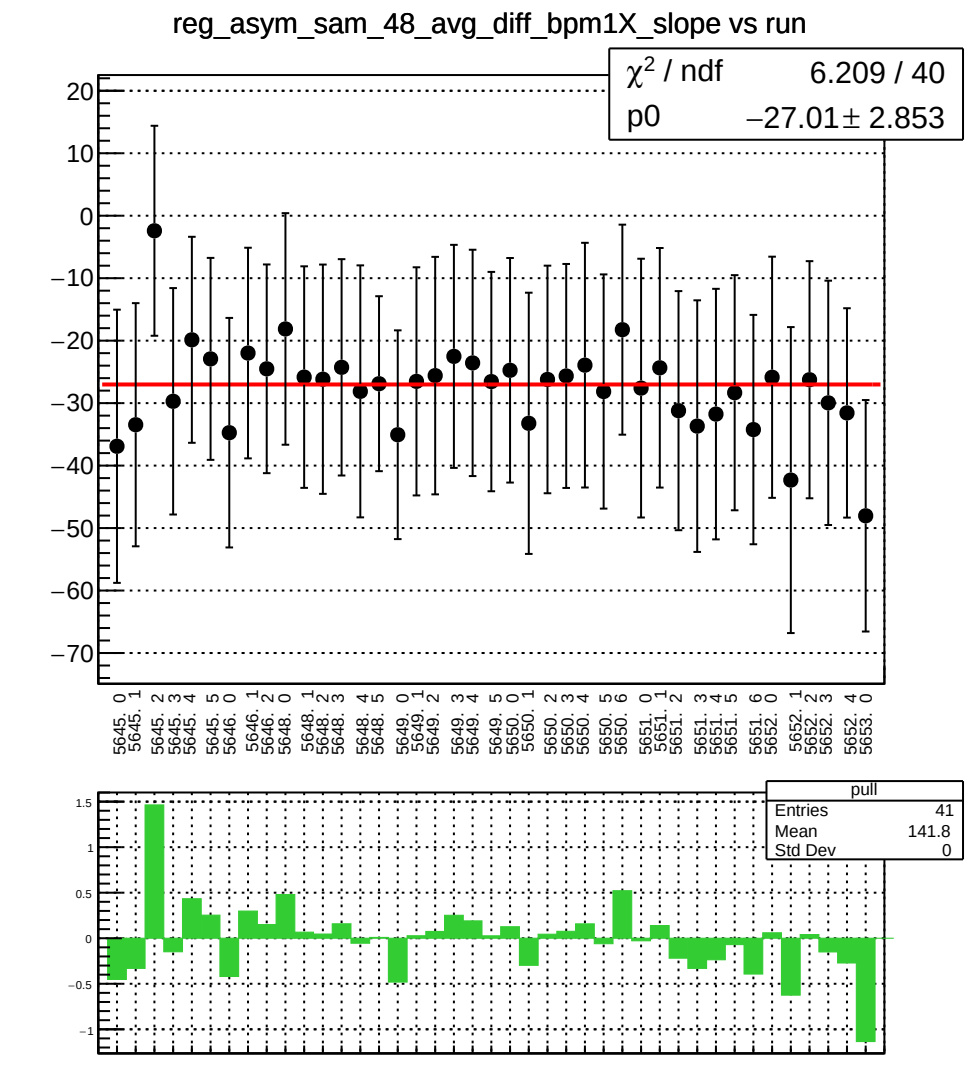

pull1D
Entries 41
Mean 0.01292
Std Dev 0.307

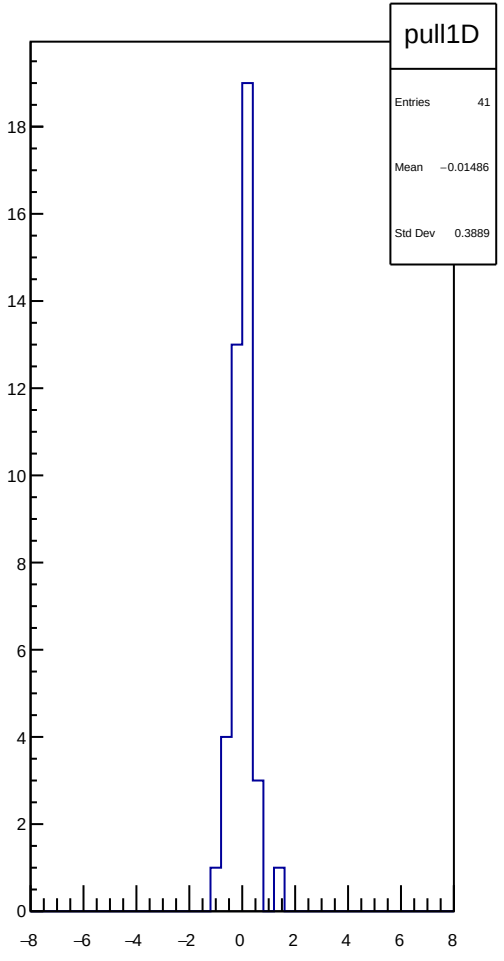

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.13 / 40
p0 −38.46 ± 5.124
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 32.79
Std Dev 6.1
2
1
0
−1
−2
−3
−4

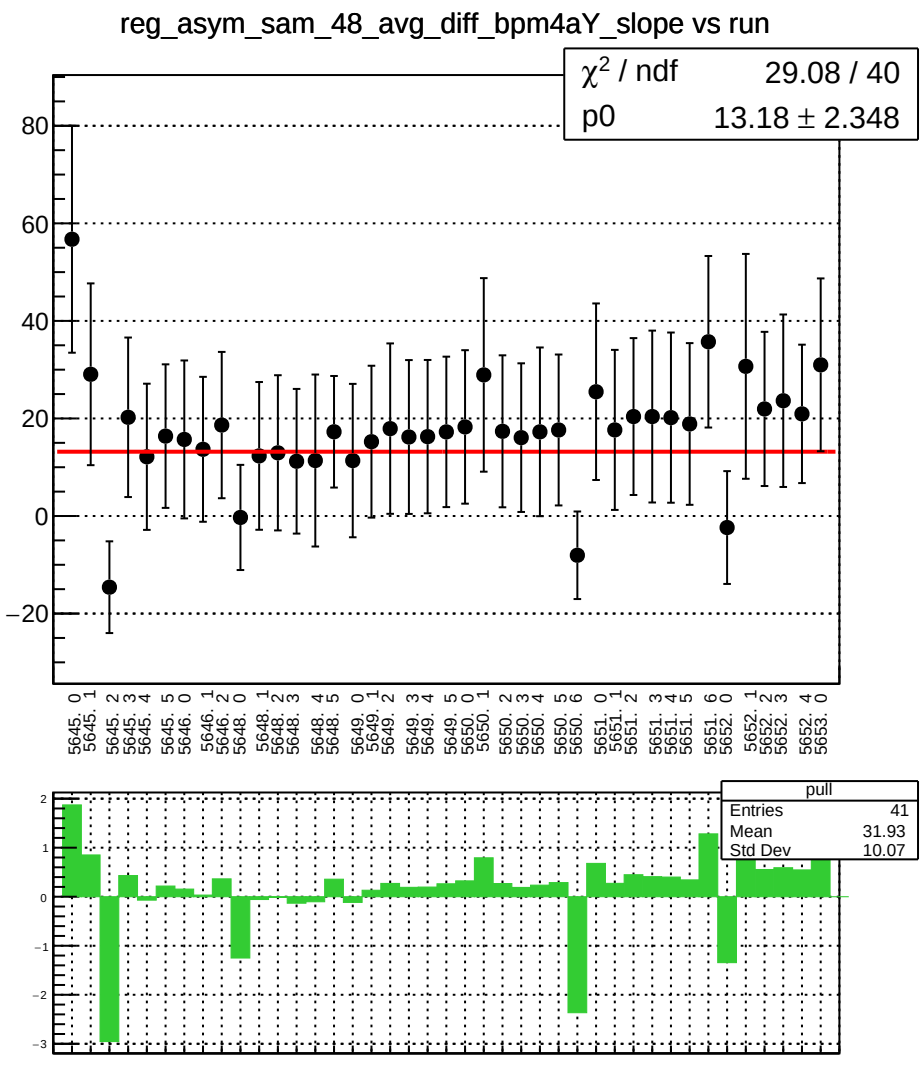

pull1D
Entries 41
Mean 0.2251
Std Dev 1.26
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

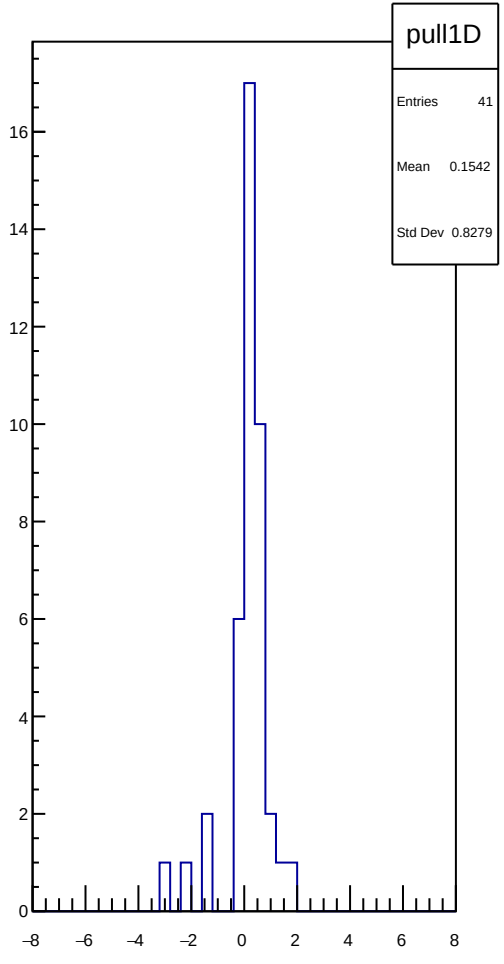

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.025 / 40
p0 0.4829 ± 0.175
pull
Entries 41
Mean −49.25
Std Dev 0

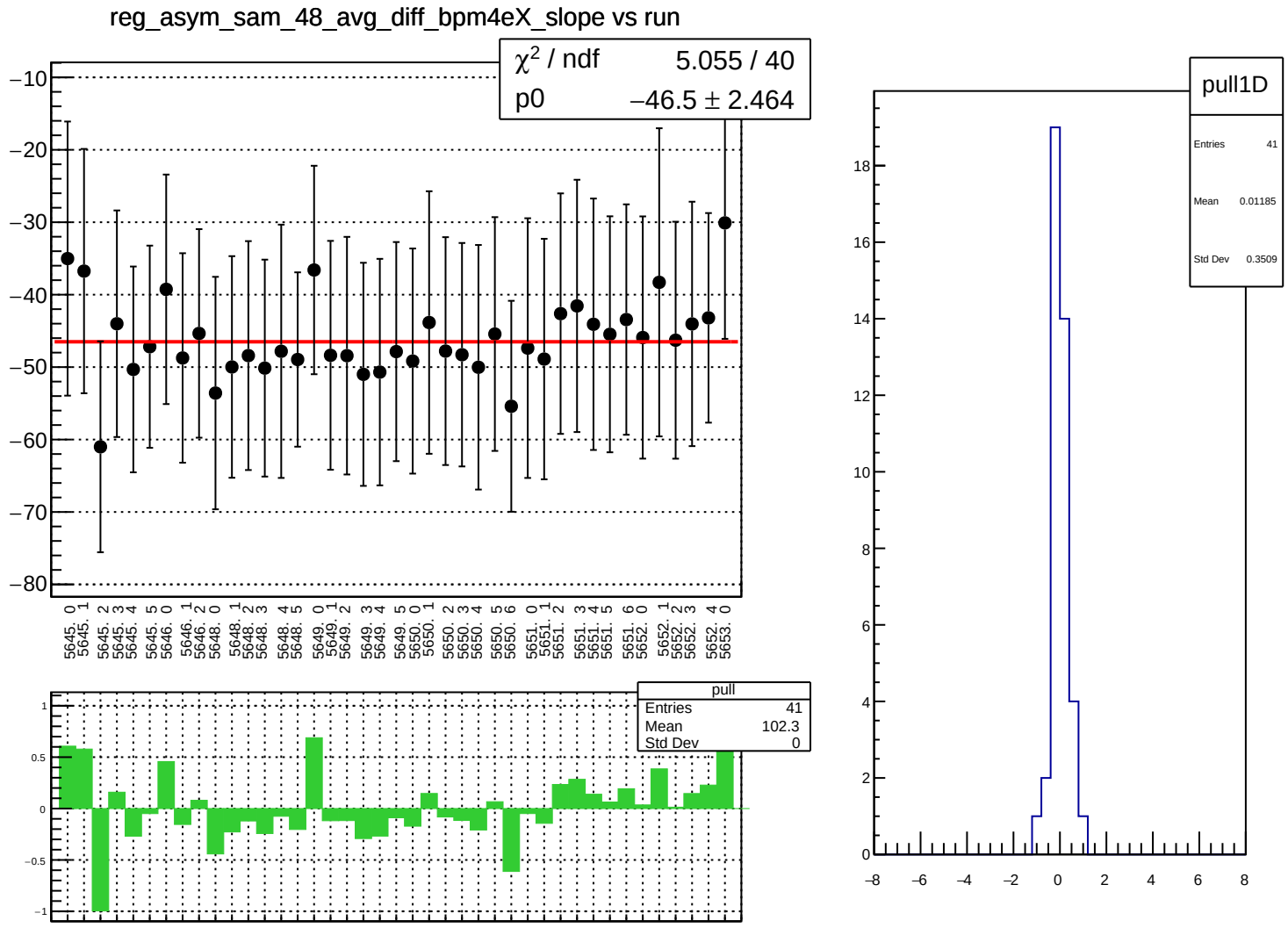

pull1D
Entries 41
Mean 0.01126
Std Dev 0.3131

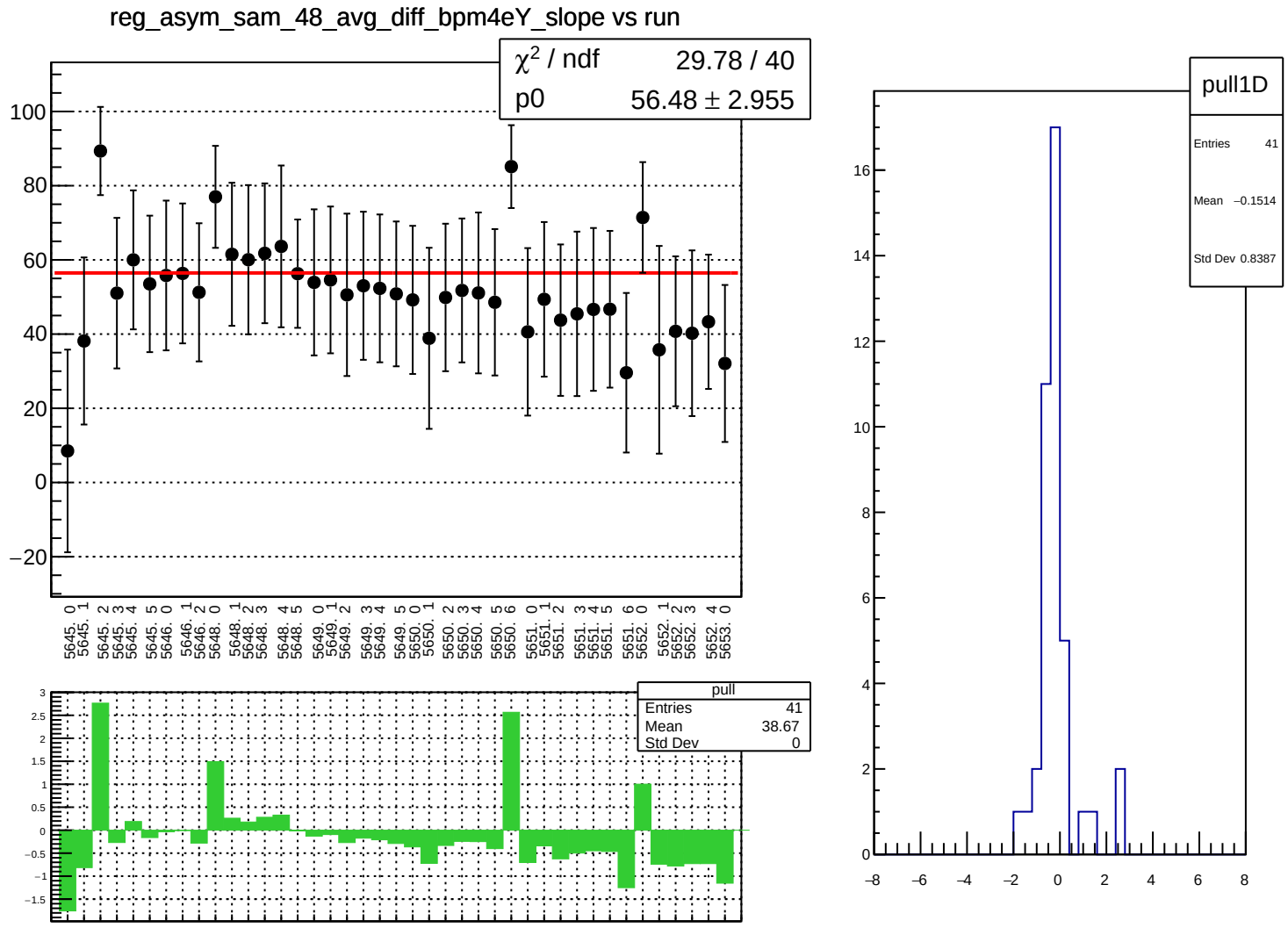

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 6.209 / 40
p0 −27.01± 2.853
pull
Entries 41
Mean 141.8
Std Dev 0

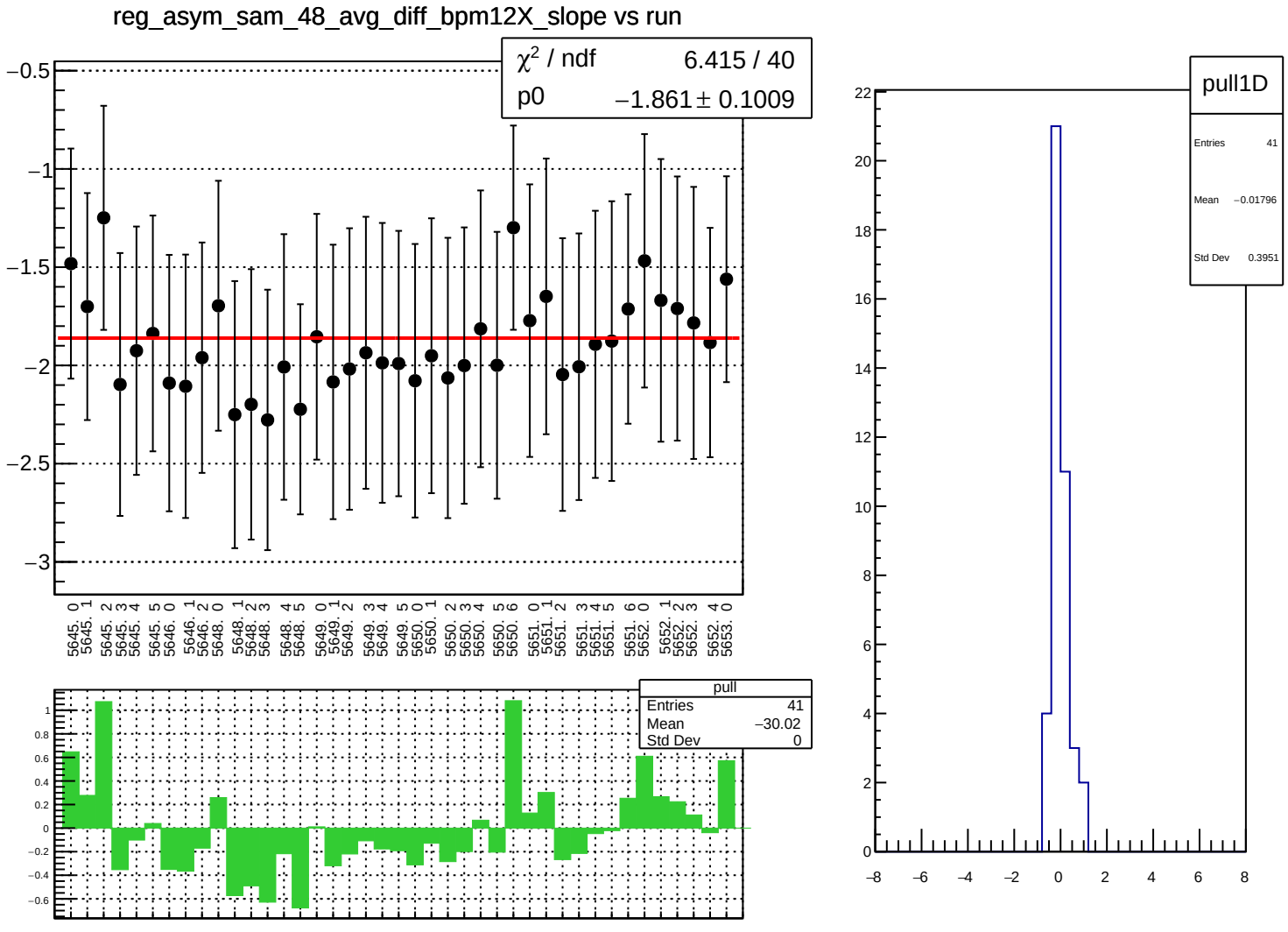

pull1D
Entries 41
Mean −0.01486
Std Dev 0.3889

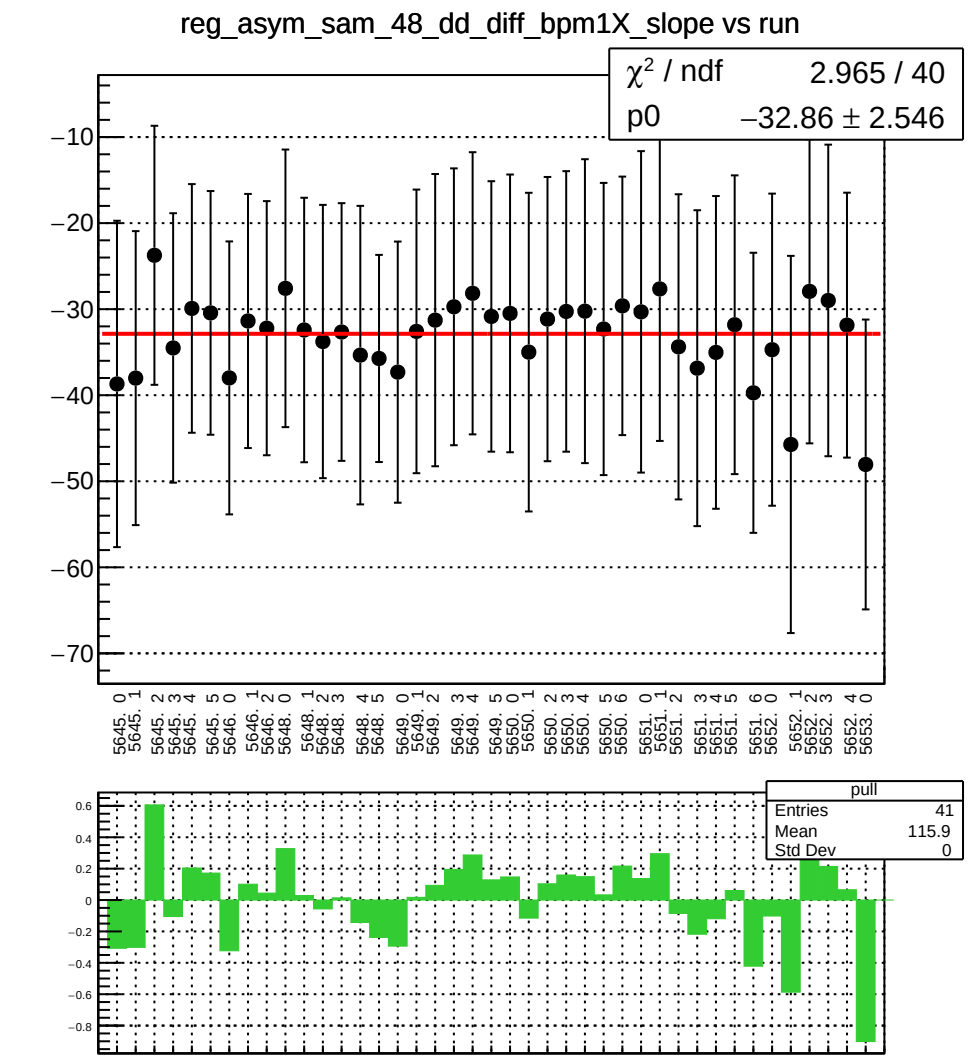

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.08 / 40
p0 13.18 ± 2.348
pull
Entries 41
Mean 31.93
Std Dev 10.07

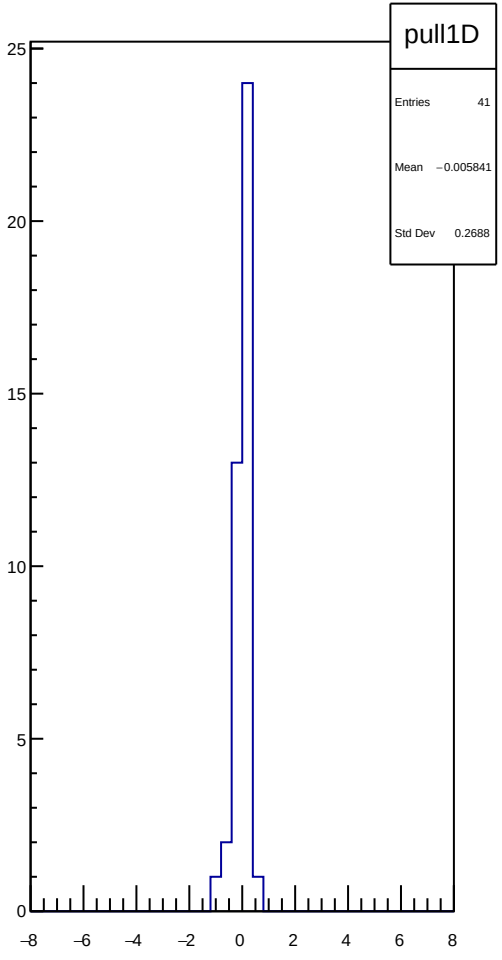

pull1D
Entries 41
Mean 0.1542
Std Dev 0.8279

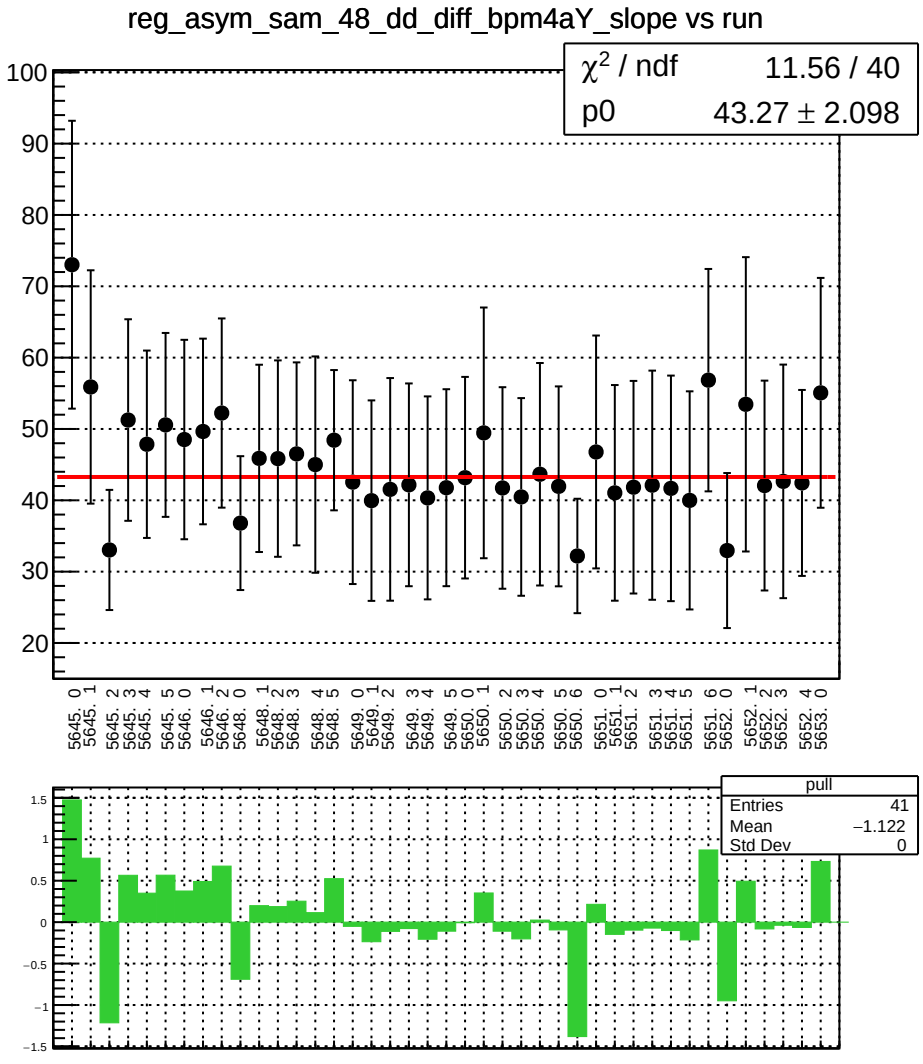

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.055 / 40
p0 −46.5 ± 2.464
pull
Entries 41
Mean 102.3
Std Dev 0
pull1D
Entries 41
Mean 0.01185
Std Dev 0.3509

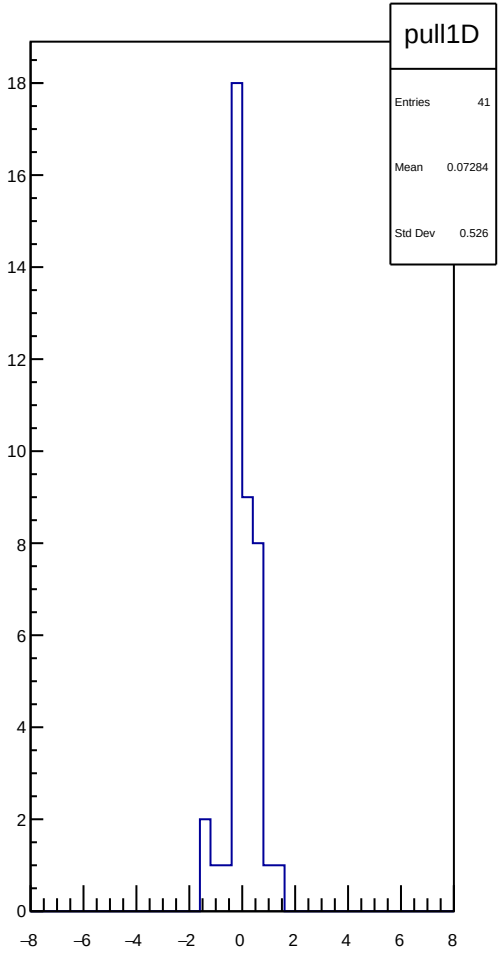

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.78 / 40
p0 56.48 ± 2.955
pull
Entries 41
Mean 38.67
Std Dev 0
pull1D
Entries 41
Mean −0.1514
Std Dev 0.8387

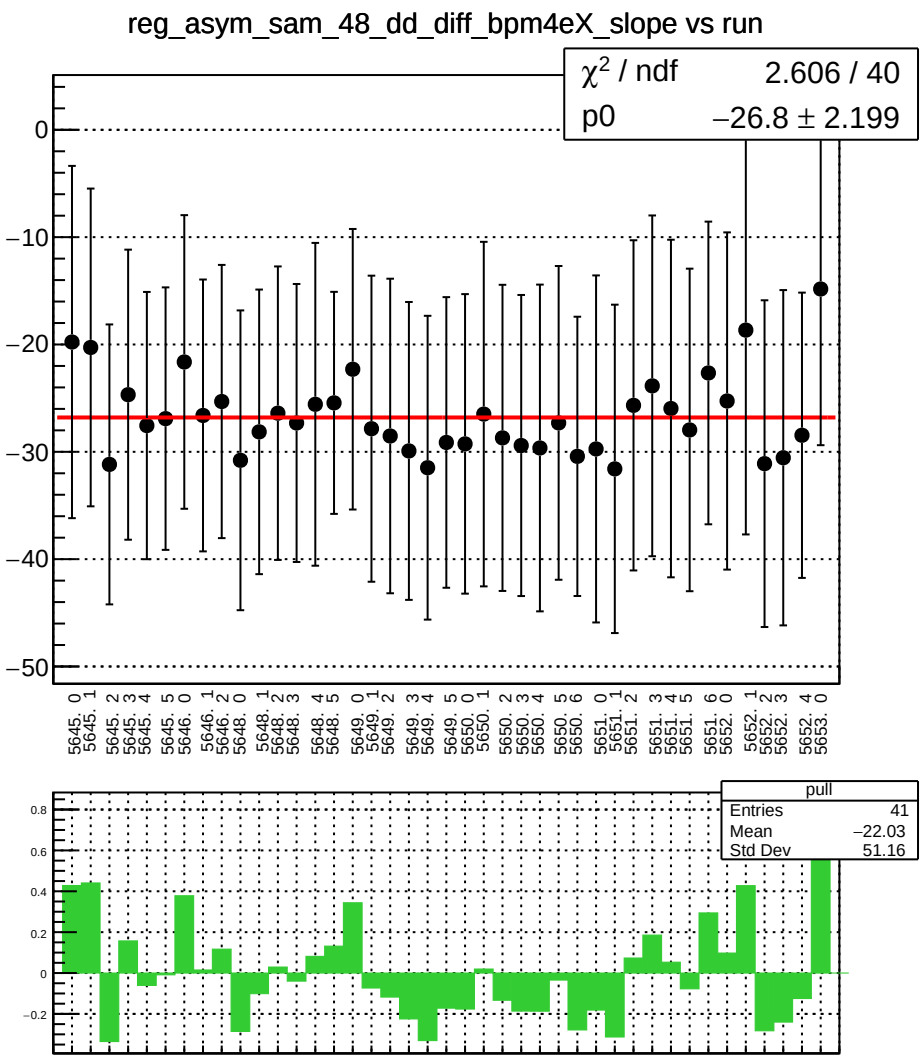

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.415 / 40
p0 −1.861 ± 0.1009
pull
Entries 41
Mean −30.02
Std Dev 0
pull1D
Entries 41
Mean −0.01796
Std Dev 0.3951

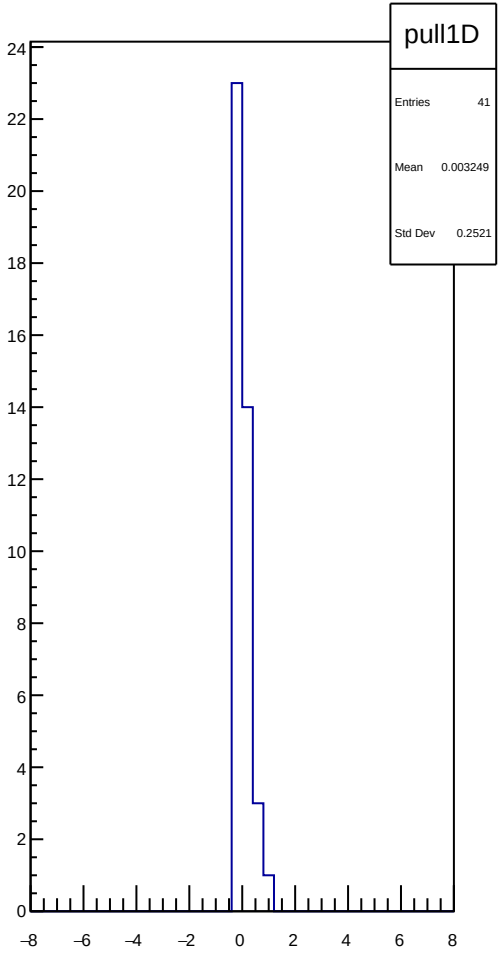

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.965 / 40
p0 −32.86 ± 2.546
pull
Entries 41
Mean 115.9
Std Dev 0

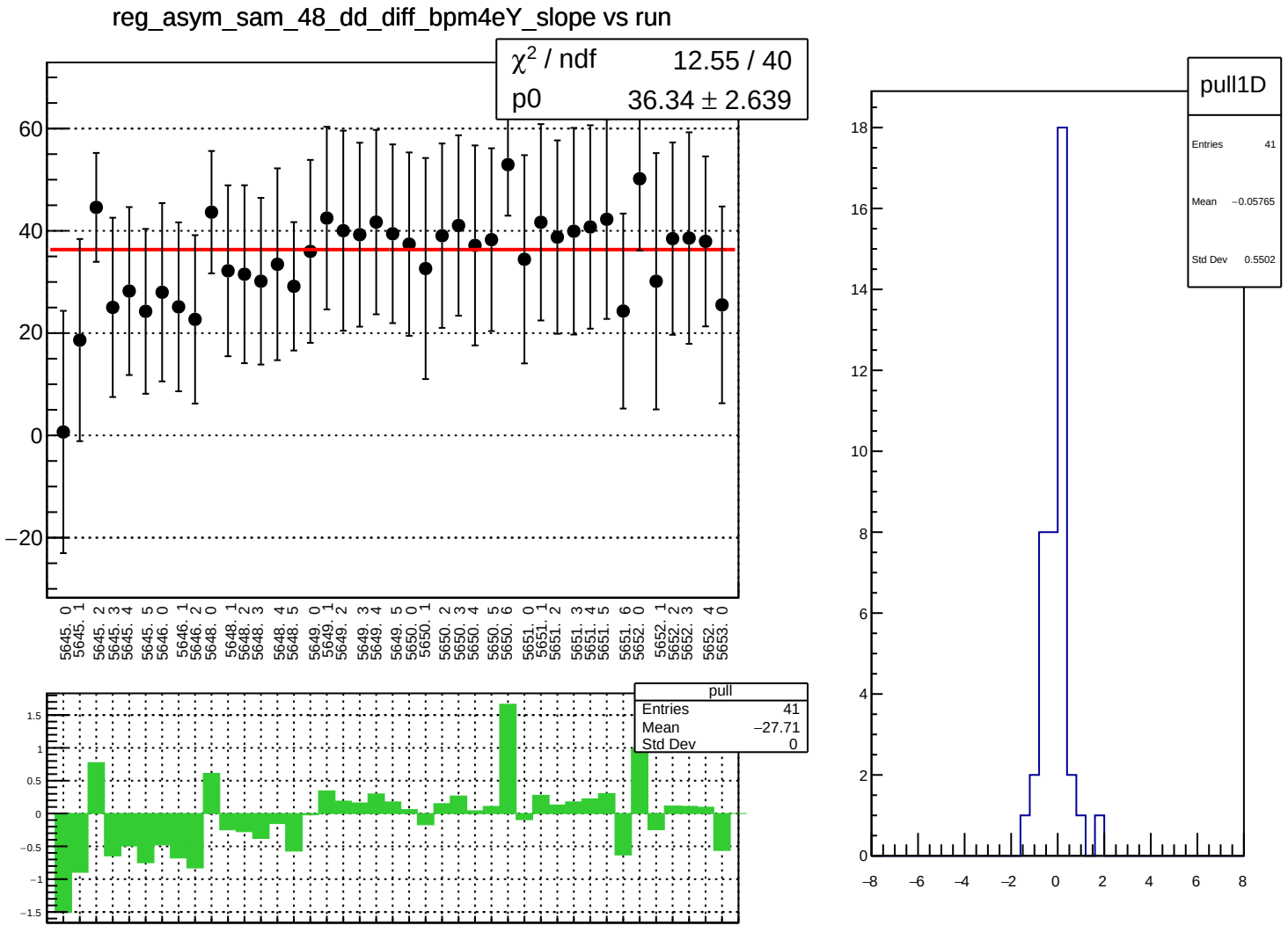

pull1D
Entries 41
Mean −0.005841
Std Dev 0.2688

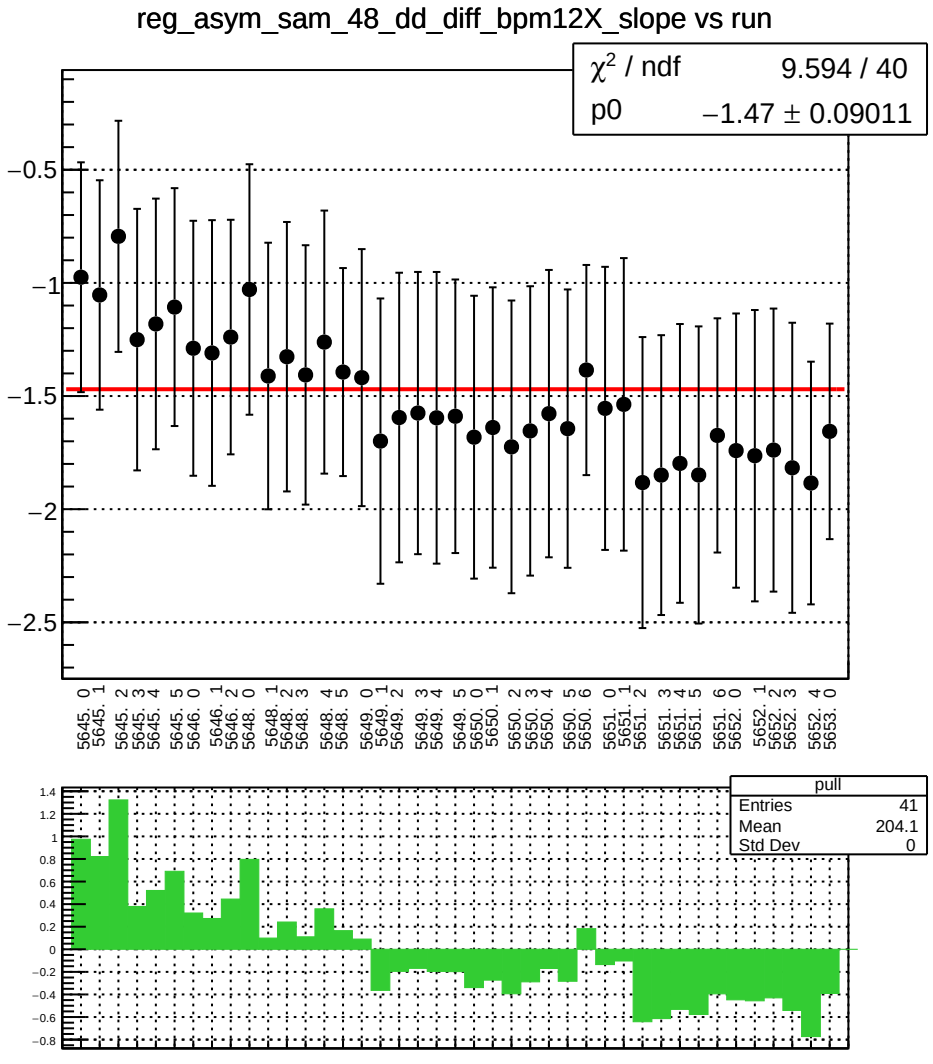

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.56 / 40
p0 43.27 ± 2.098
pull
Entries 41
Mean −1.122
Std Dev 0

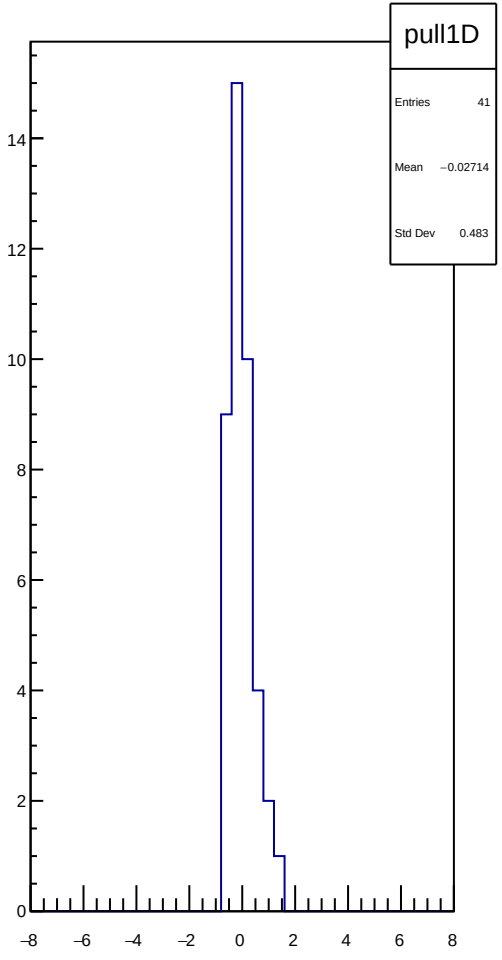

pull1D
Entries 41
Mean 0.07284
Std Dev 0.526

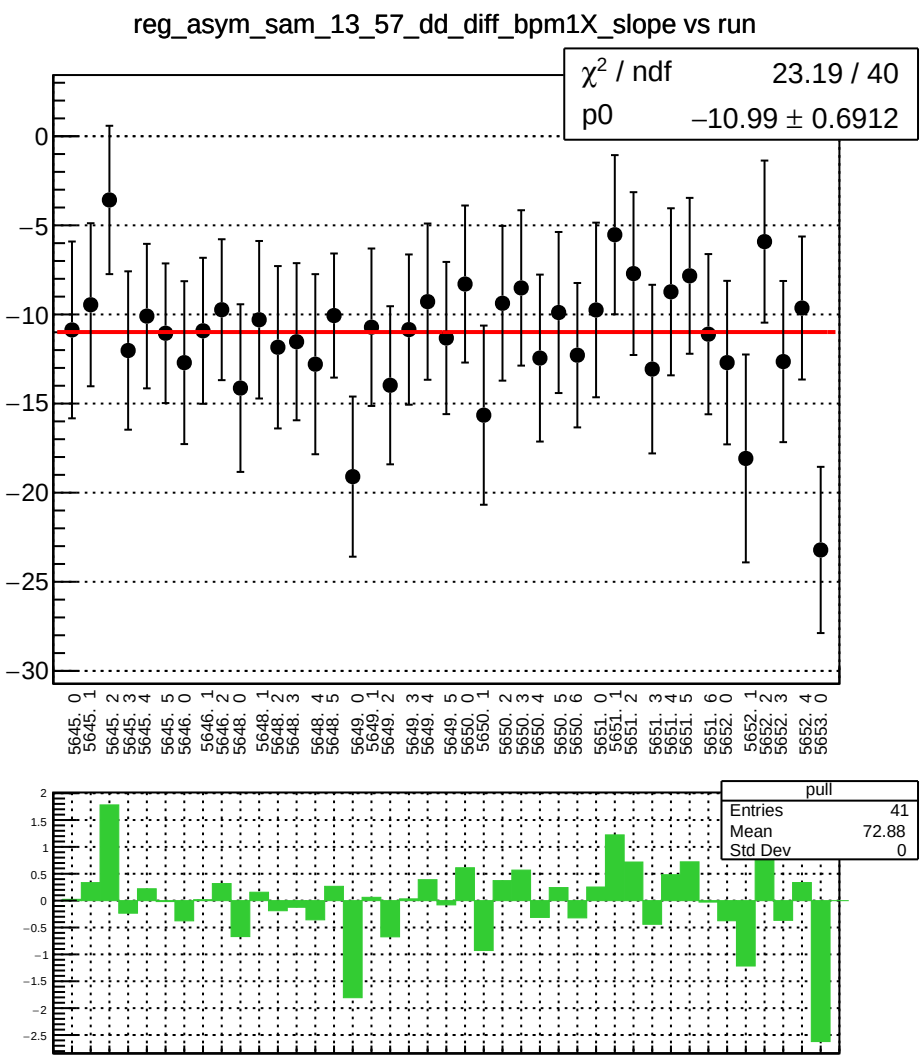

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.606 / 40
p0 −26.8 ± 2.199
pull
Entries 41
Mean −22.03
Std Dev 51.16

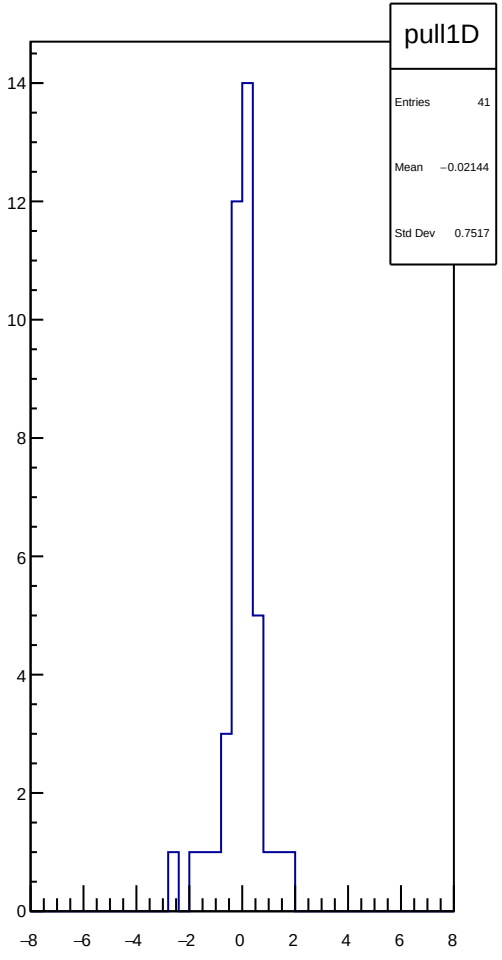

pull1D
Entries 41
Mean 0.003249
Std Dev 0.2521

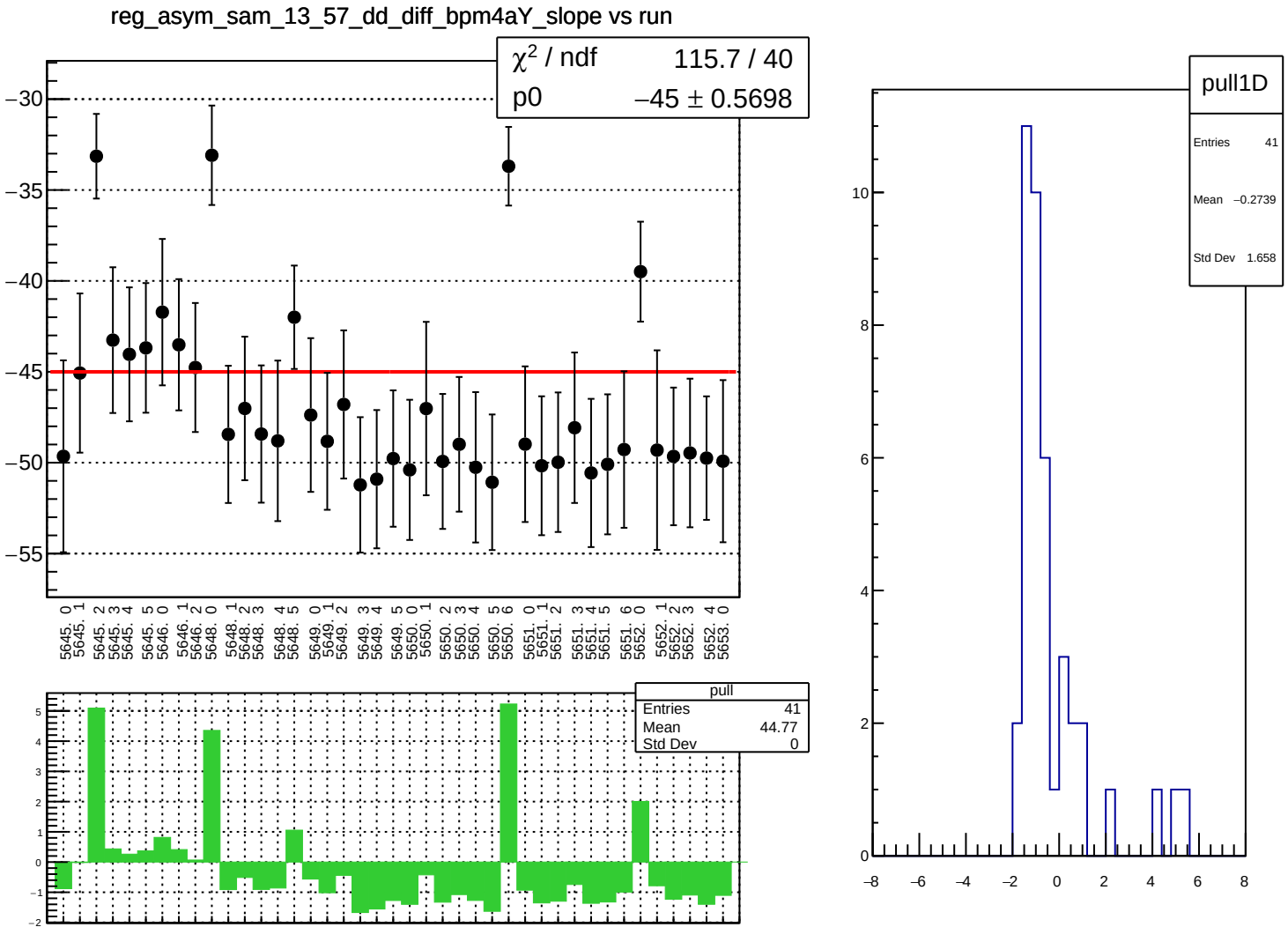

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.55 / 40
p0 36.34 ± 2.639
60
40
20
0
−20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −27.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.05765
Std Dev 0.5502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

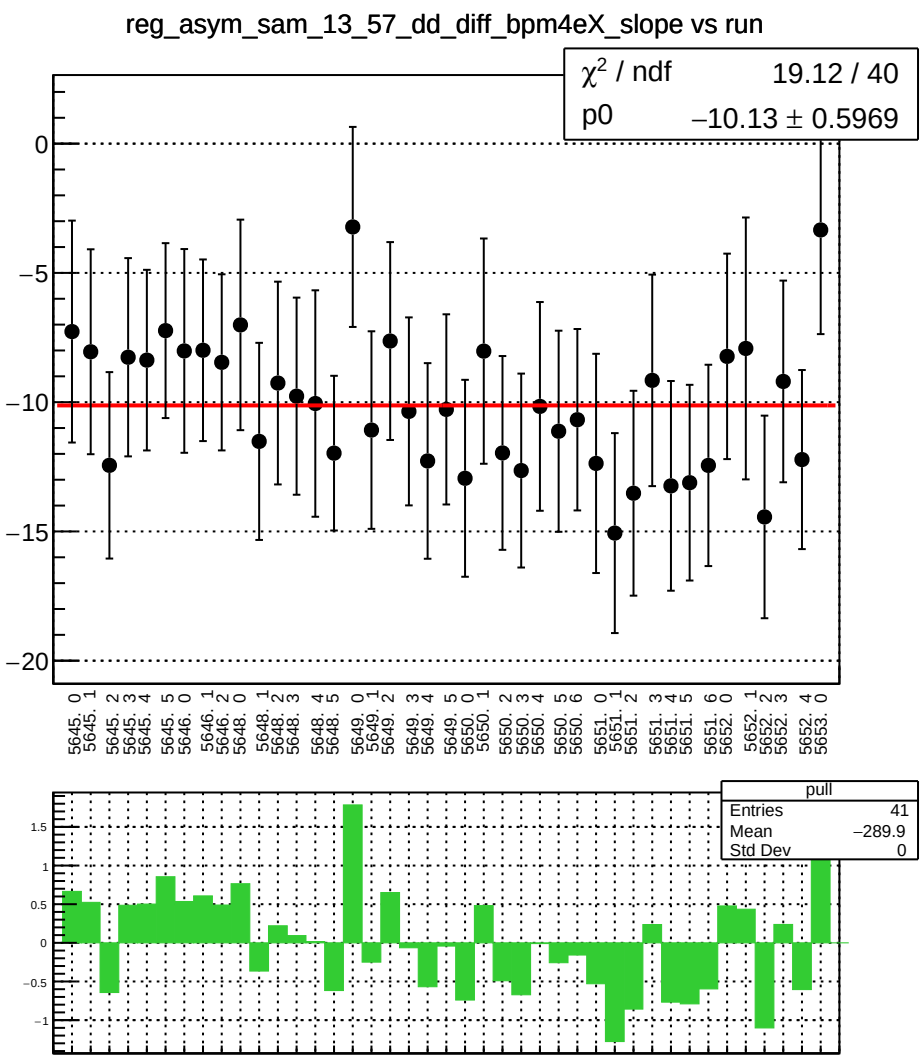

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.594 / 40
p0 −1.47 ± 0.09011
−0.5
−1
−1.5
−2
−2.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 204.1
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

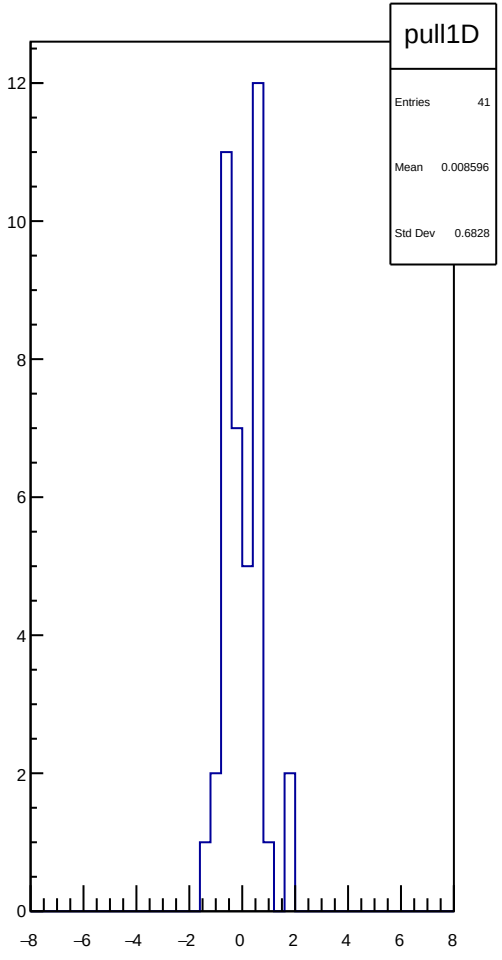

pull1D
Entries 41
Mean −0.02714
Std Dev 0.483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

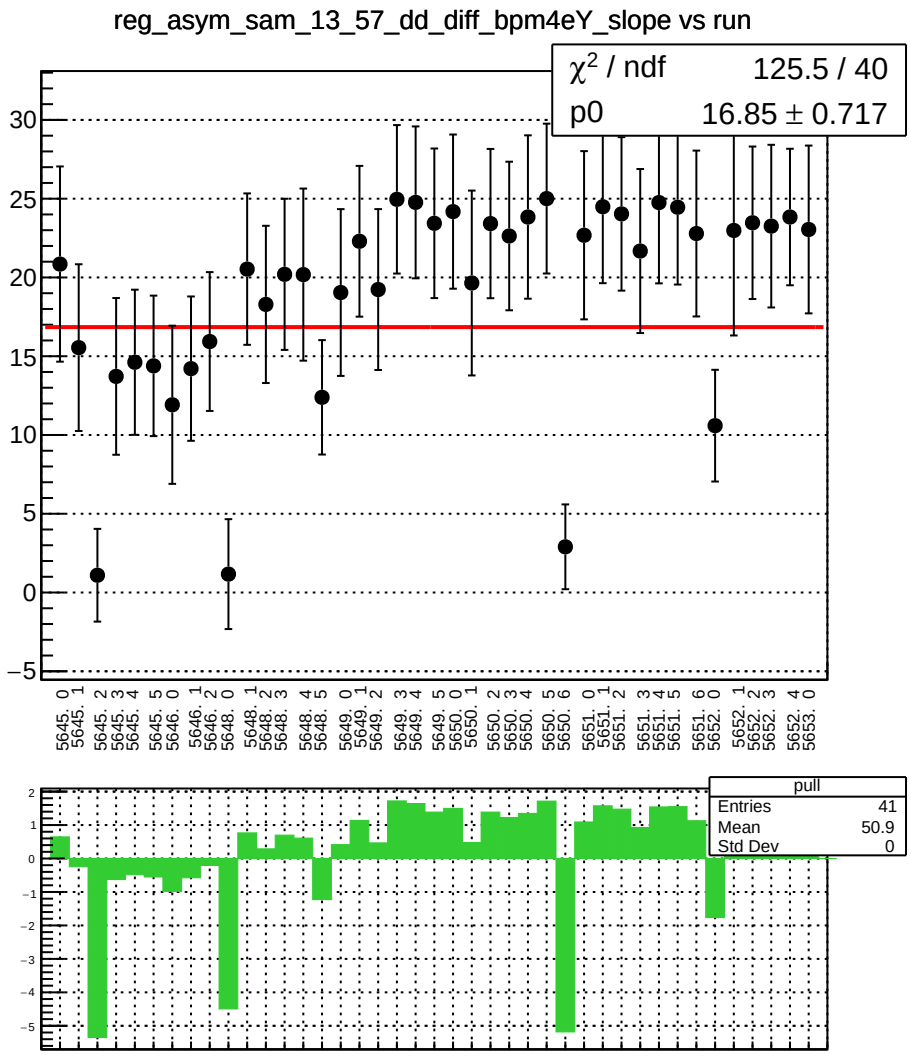

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 23.19 / 40
p0 −10.99 ± 0.6912
pull
Entries 41
Mean 72.88
Std Dev 0

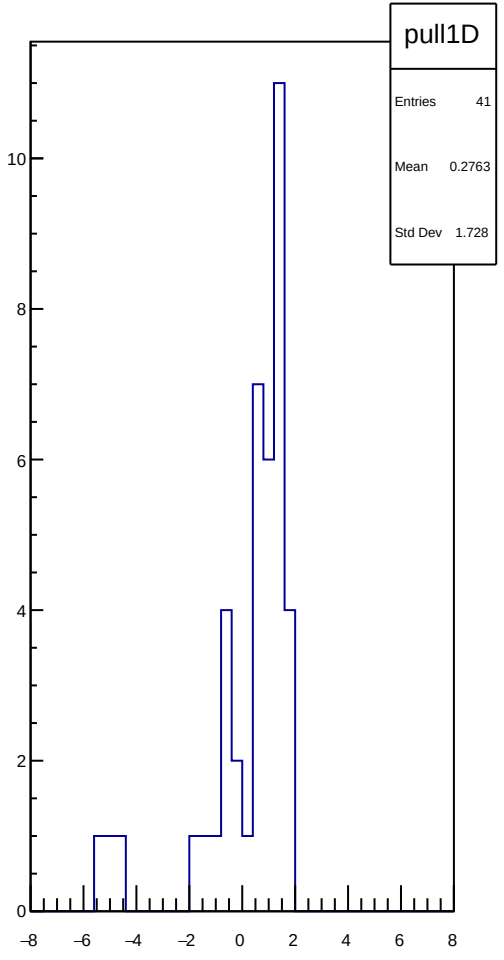

pull1D
Entries 41
Mean −0.02144
Std Dev 0.7517

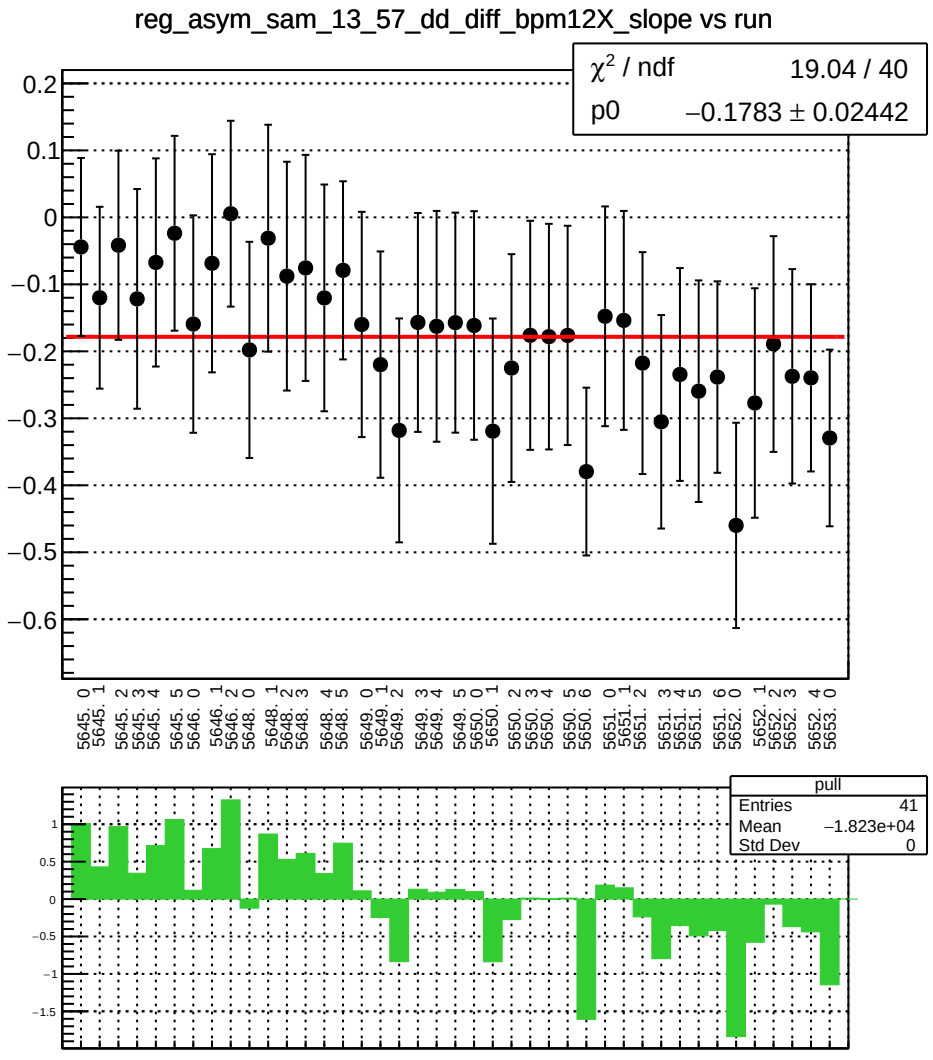

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.7 / 40
p0 −45 ± 0.5698
−30
−35
−40
−45
−50
−55
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 44.77
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean −0.2739
Std Dev 1.658
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

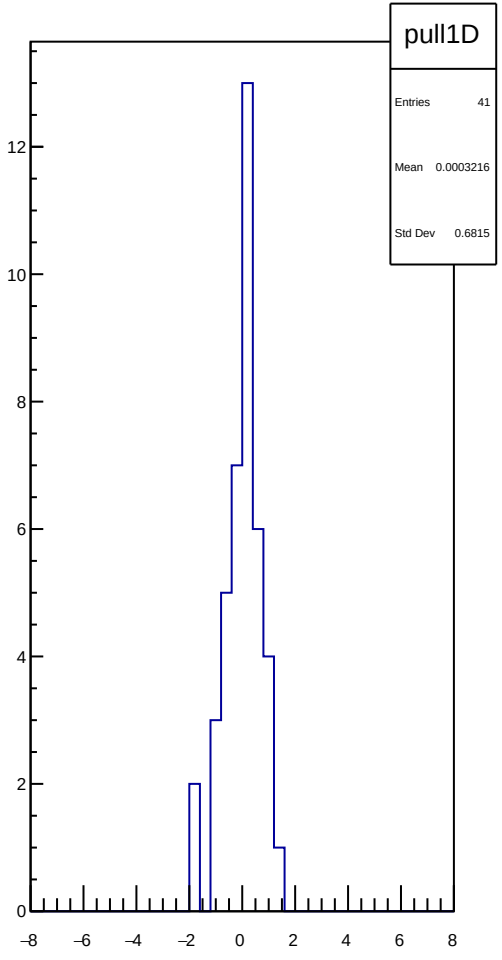

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.12 / 40
p0 −10.13 ± 0.5969
pull
Entries 41
Mean −289.9
Std Dev 0

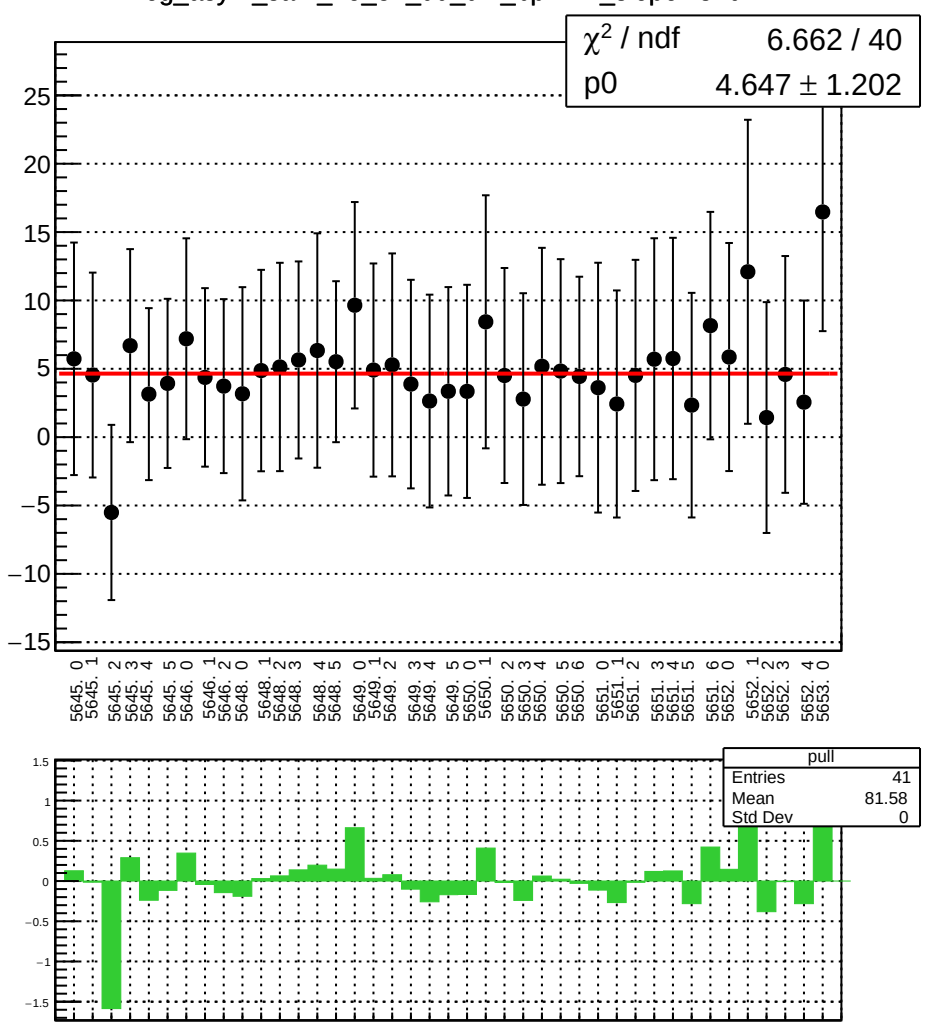

pull1D
Entries 41
Mean 0.008596
Std Dev 0.6828

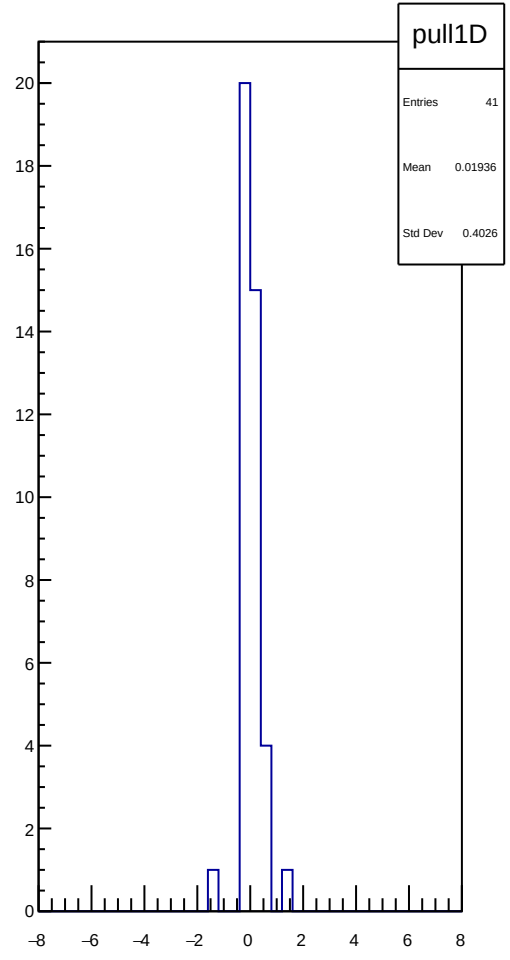

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 125.5 / 40
p0 16.85 ± 0.717
pull
Entries 41
Mean 50.9
Std Dev 0

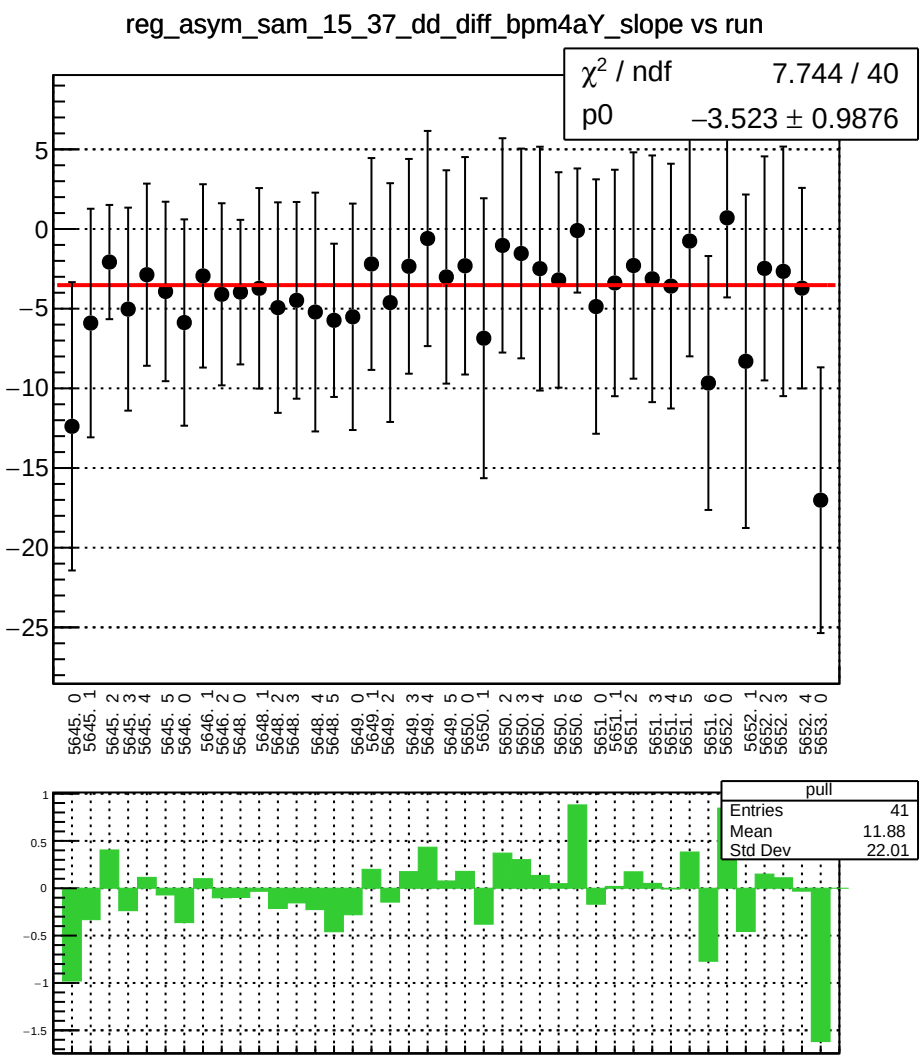

pull1D
Entries 41
Mean 0.2763
Std Dev 1.728

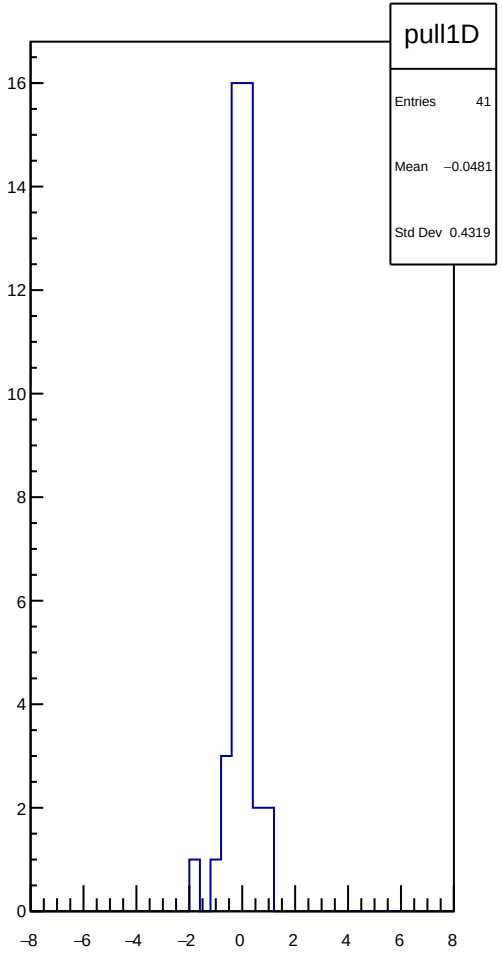

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 19.04 / 40
p0 −0.1783 ± 0.02442
pull
Entries 41
Mean −1.823e+04
Std Dev 0

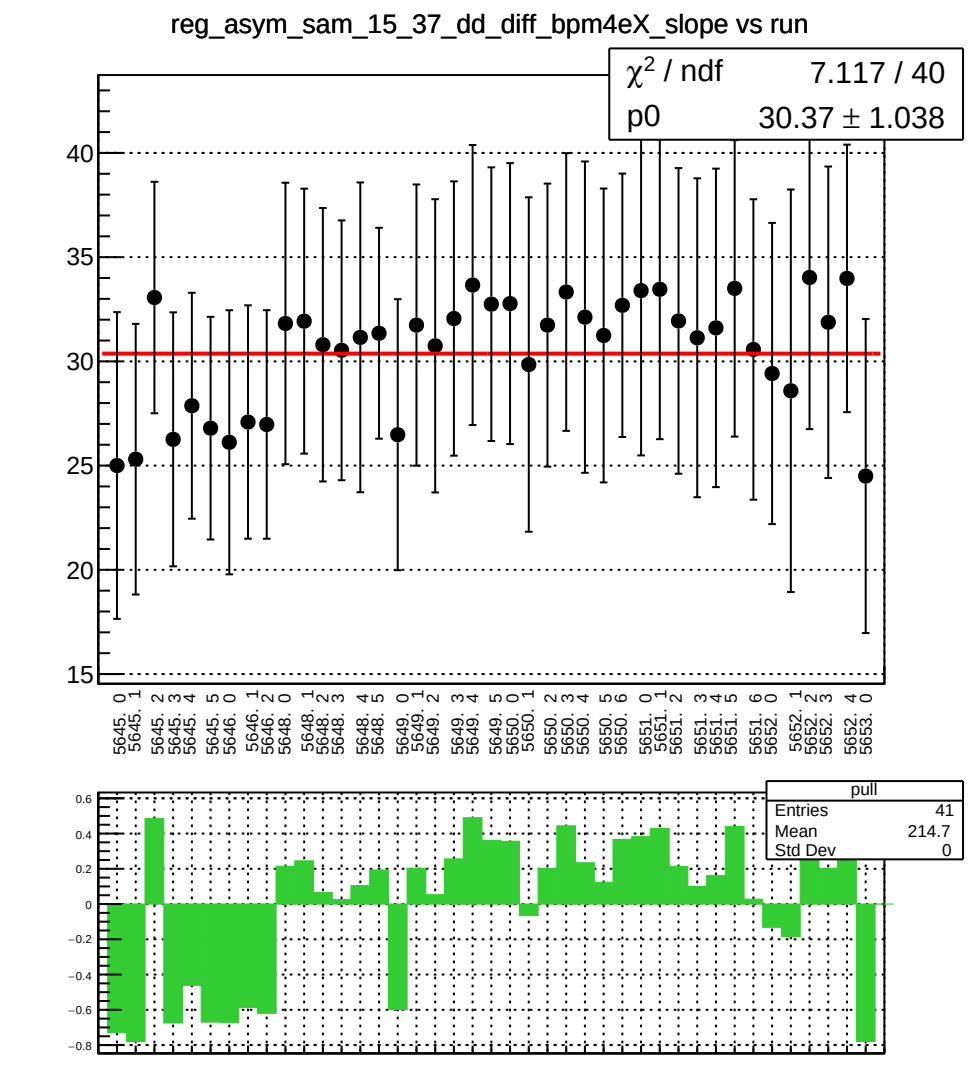

pull1D
Entries 41
Mean 0.0003216
Std Dev 0.6815

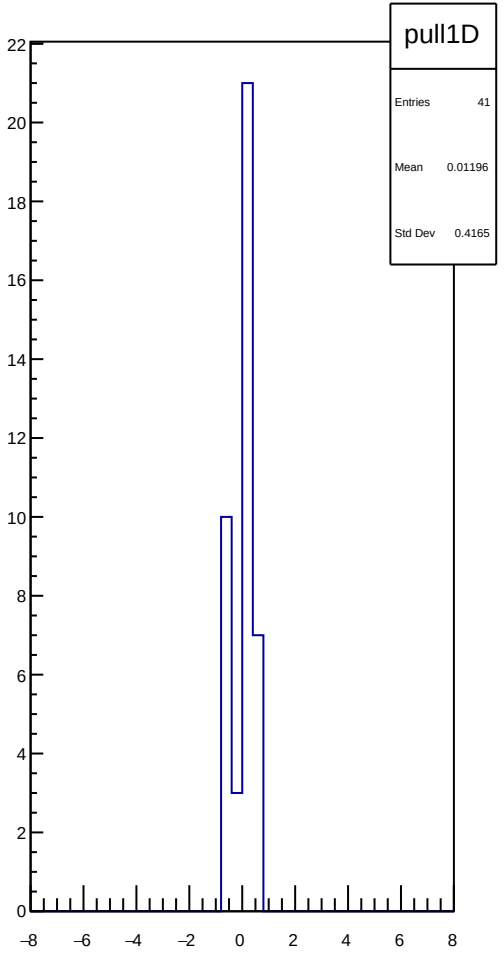

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.662 / 40
p0 4.647 ± 1.202
pull
Entries 41
Mean 81.58
Std Dev 0

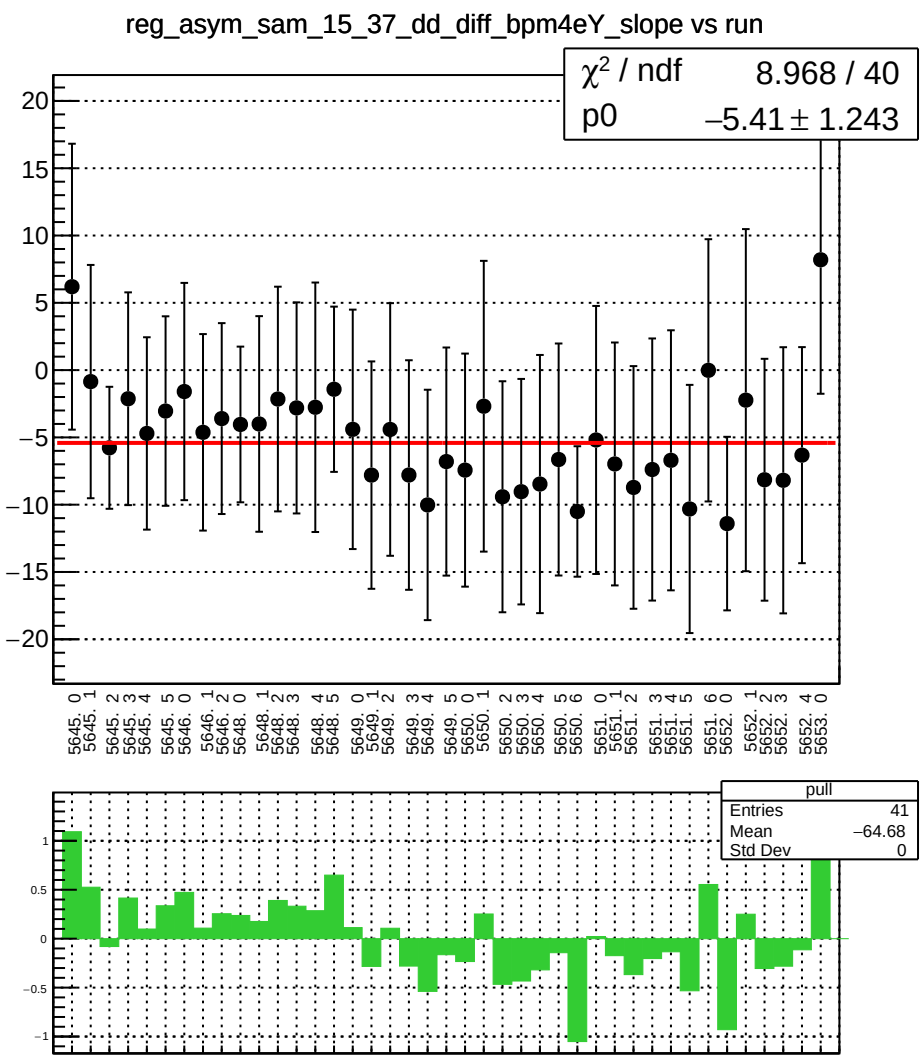

pull1D
Entries 41
Mean 0.01936
Std Dev 0.4026

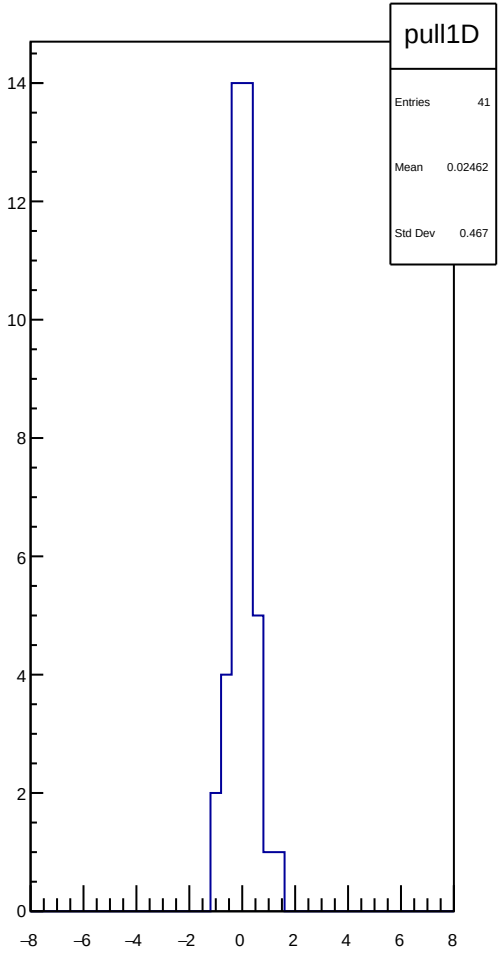

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.744 / 40
p0 −3.523 ± 0.9876
pull
Entries 41
Mean 11.88
Std Dev 22.01

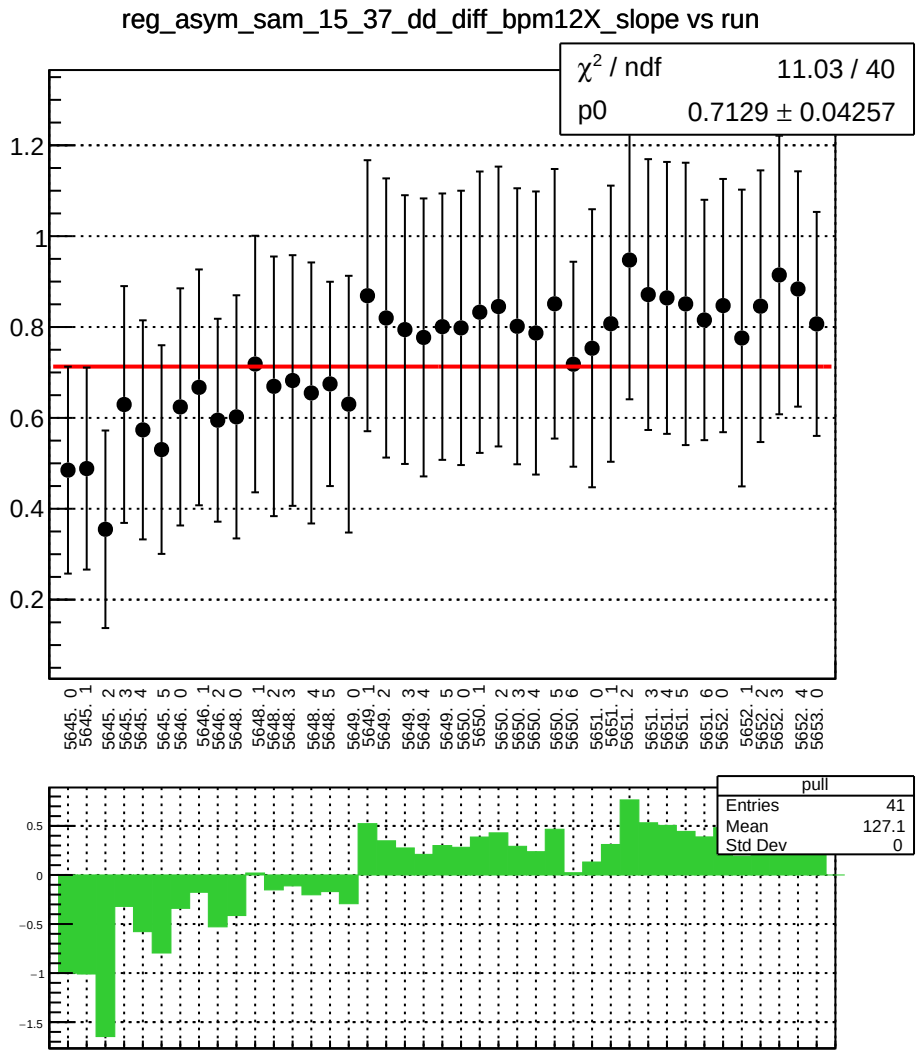

pull1D
Entries 41
Mean −0.0481
Std Dev 0.4319

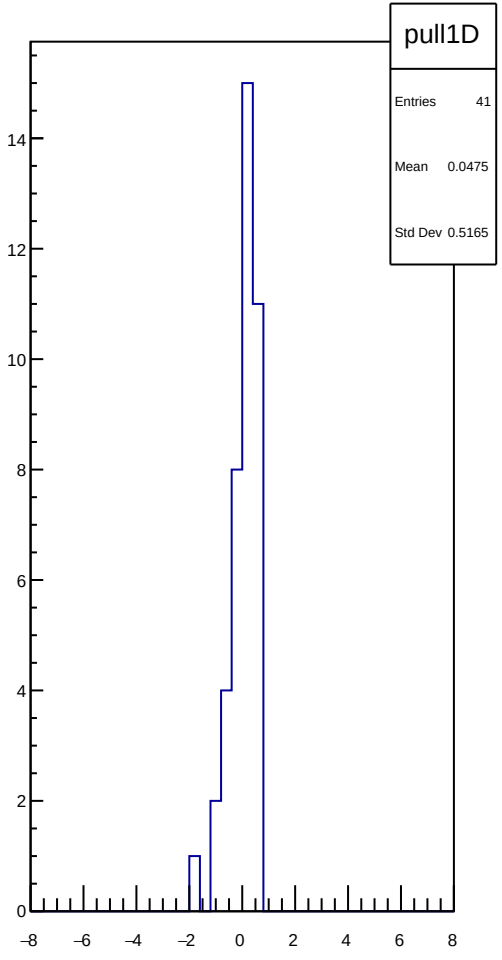

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 7.117 / 40
p0 30.37 ± 1.038
pull
Entries 41
Mean 214.7
Std Dev 0

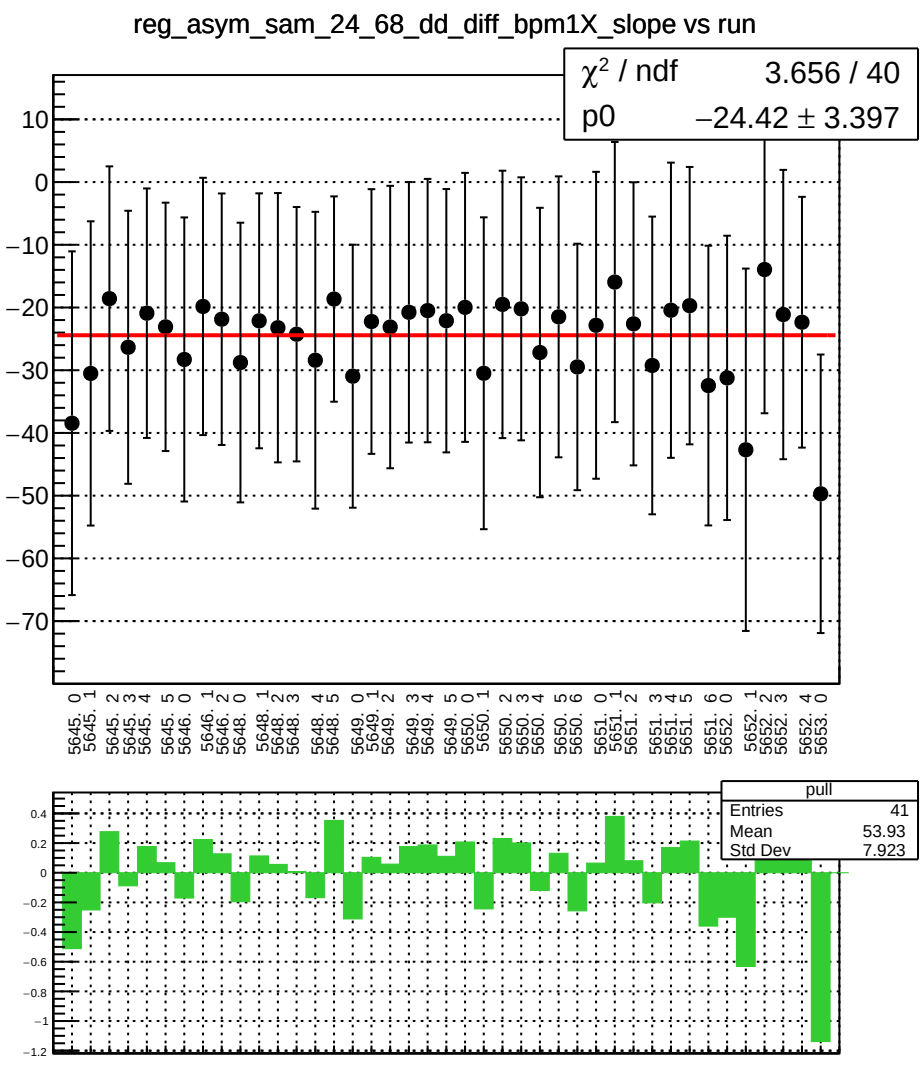

pull1D
Entries 41
Mean 0.01196
Std Dev 0.4165

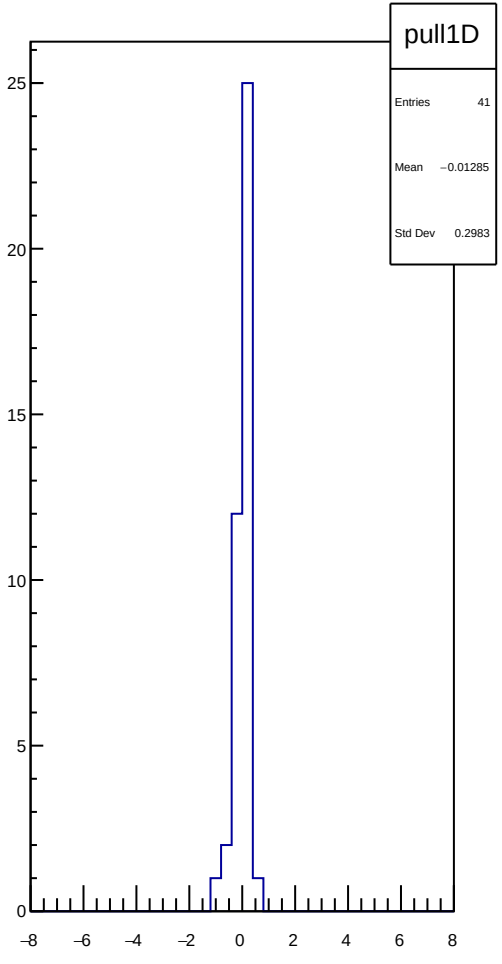

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.968 / 40
p0 −5.41 ± 1.243
pull
Entries 41
Mean −64.68
Std Dev 0

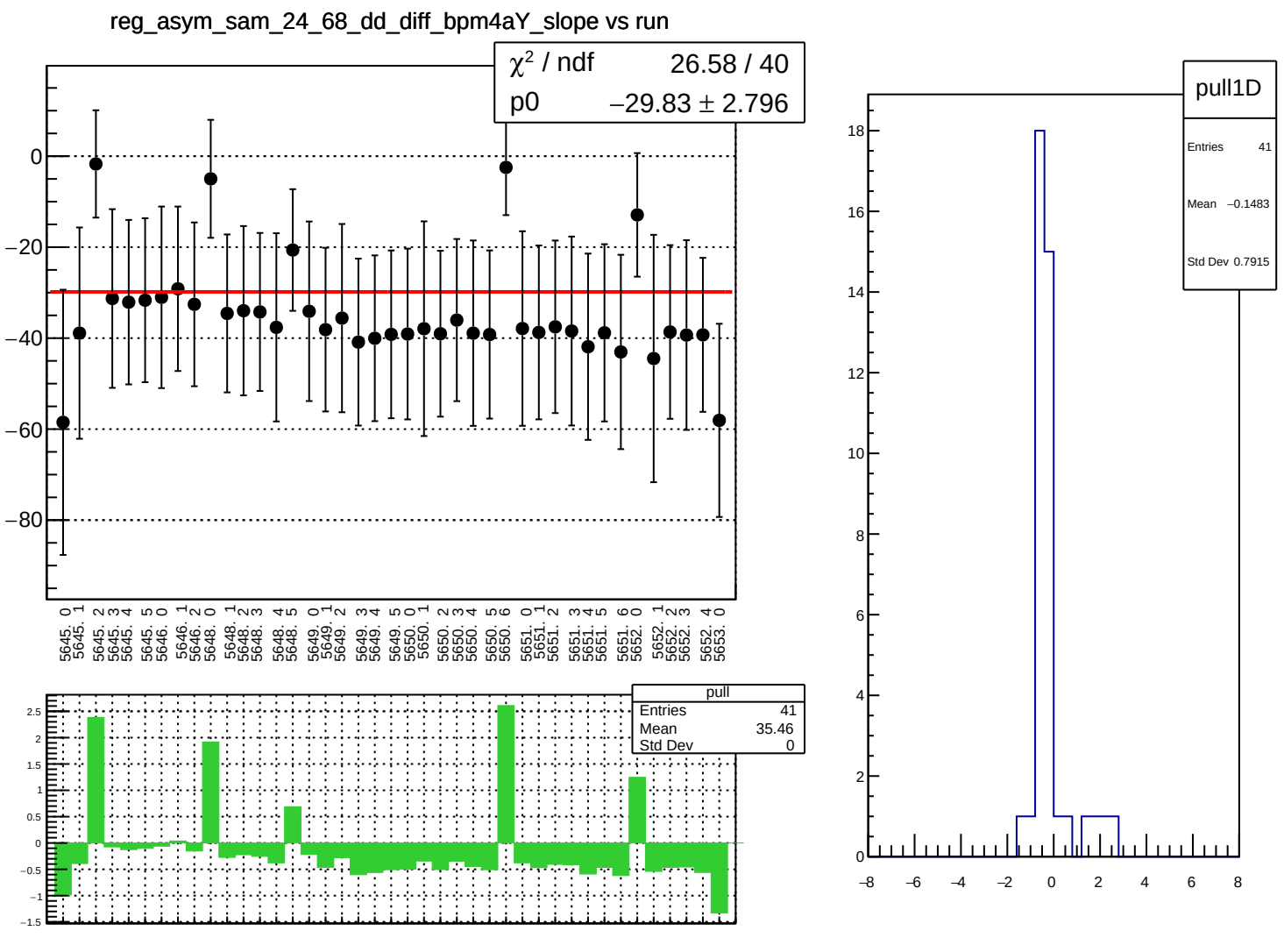

pull1D
Entries 41
Mean 0.02462
Std Dev 0.467

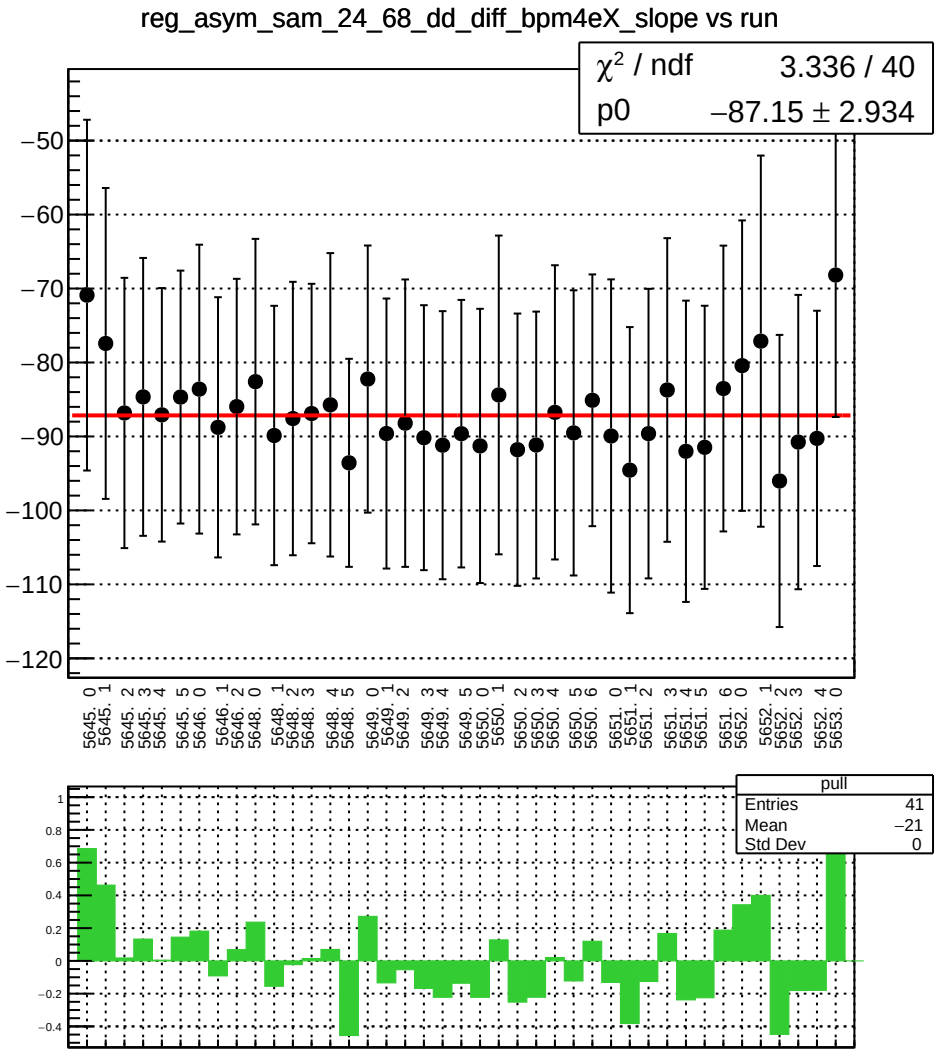

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.03 / 40
p0 0.7129 ± 0.04257
pull
Entries 41
Mean 127.1
Std Dev 0

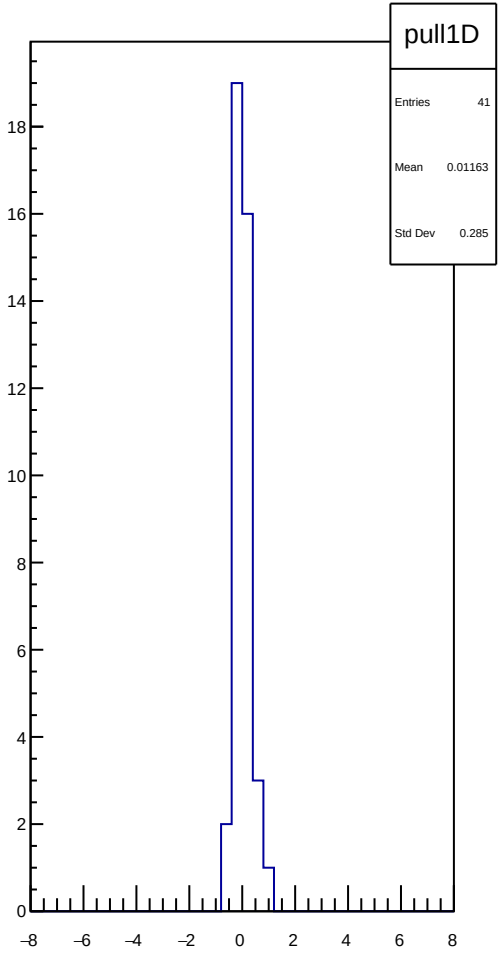

pull1D
Entries 41
Mean 0.0475
Std Dev 0.5165

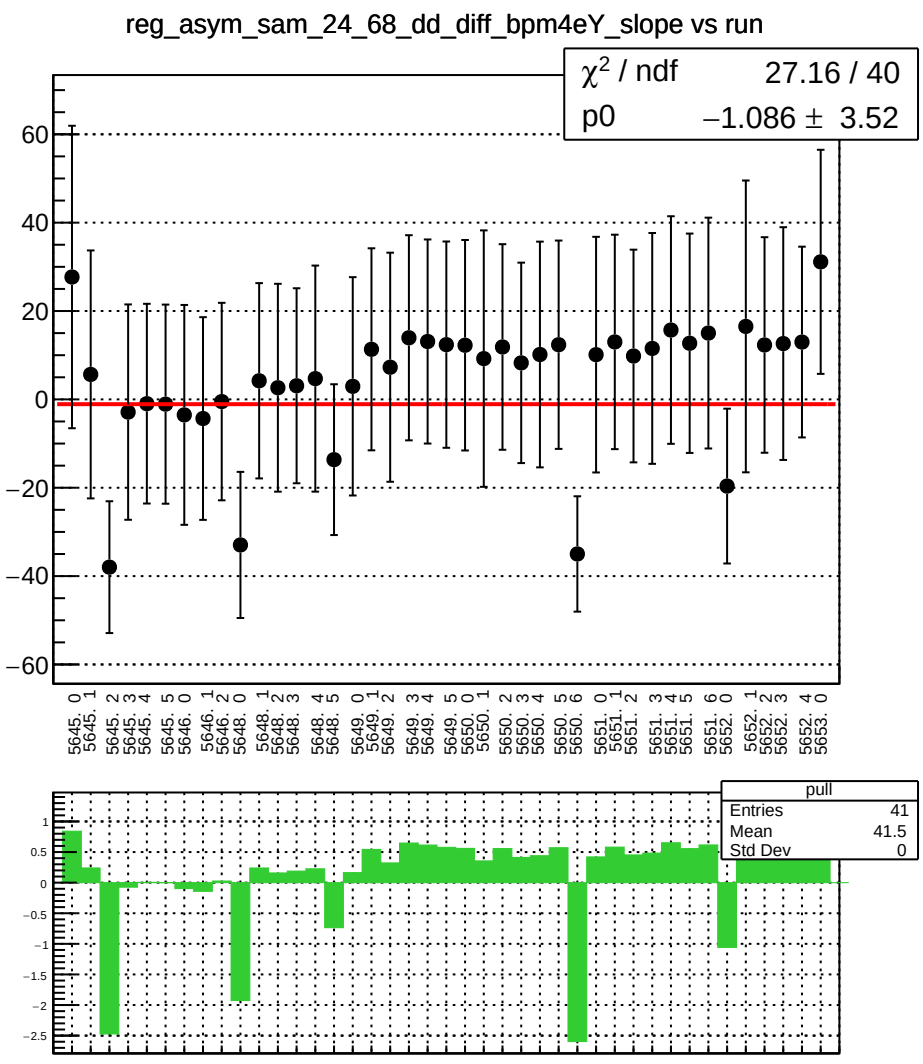

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.656 / 40
p0 −24.42 ± 3.397
pull
Entries 41
Mean 53.93
Std Dev 7.923

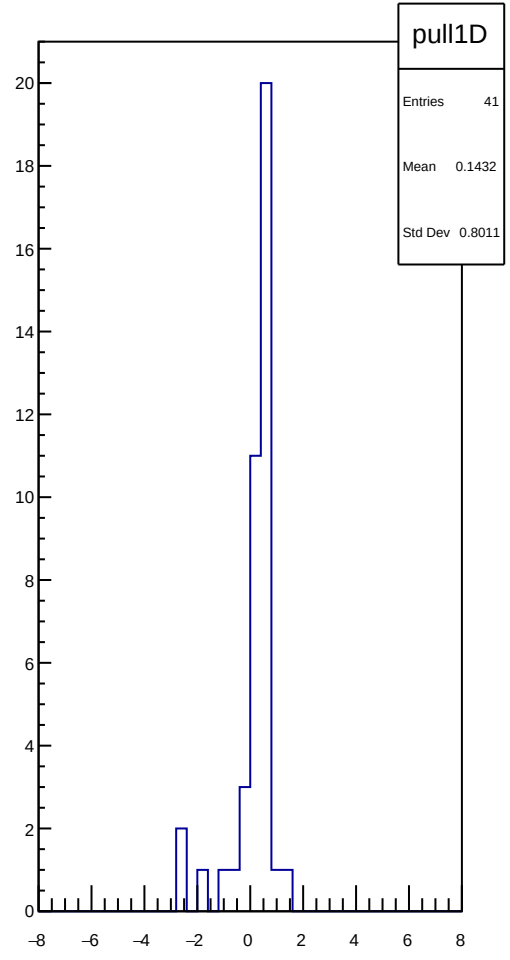

pull1D
Entries 41
Mean −0.01285
Std Dev 0.2983

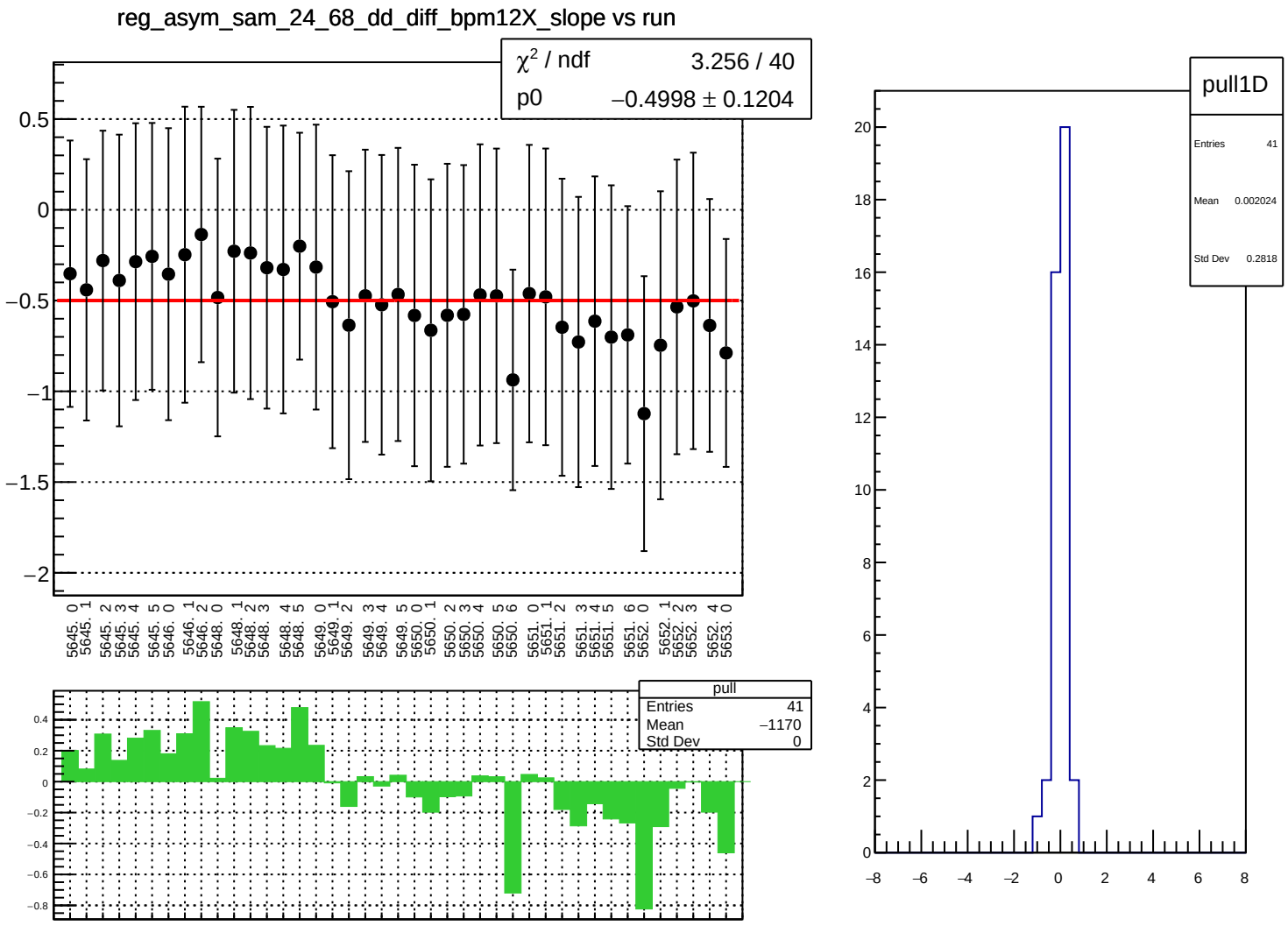

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.58 / 40
p0 −29.83 ± 2.796
0
−20
−40
−60
−80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 35.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.1483
Std Dev 0.7915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

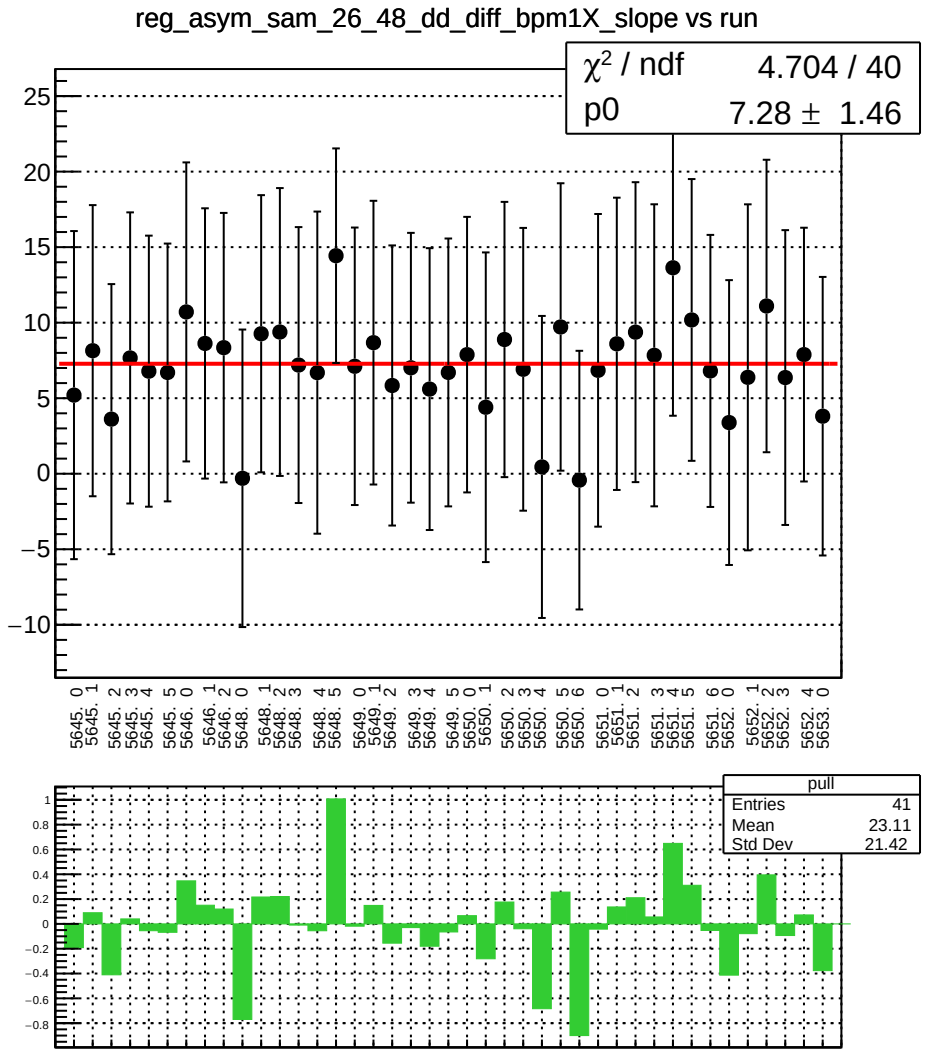

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.336 / 40
p0 −87.15 ± 2.934
pull
Entries 41
Mean −21
Std Dev 0

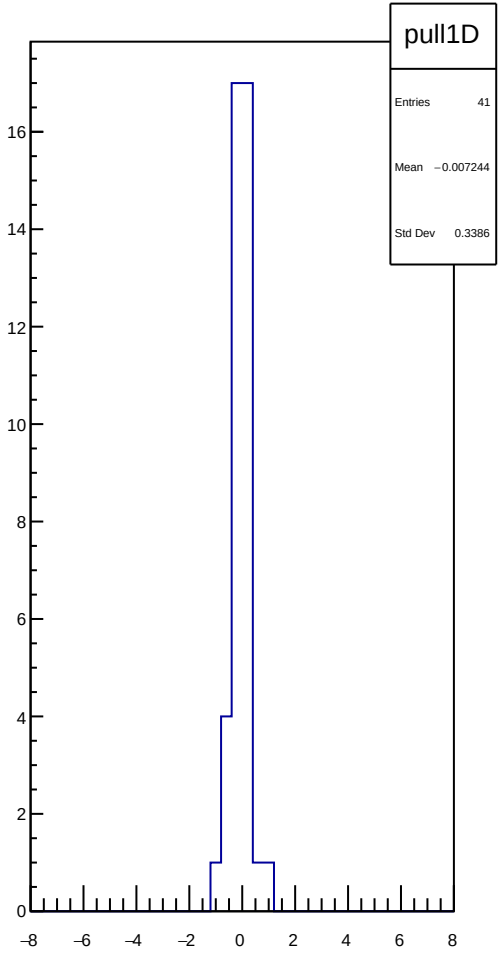

pull1D
Entries 41
Mean 0.01163
Std Dev 0.285

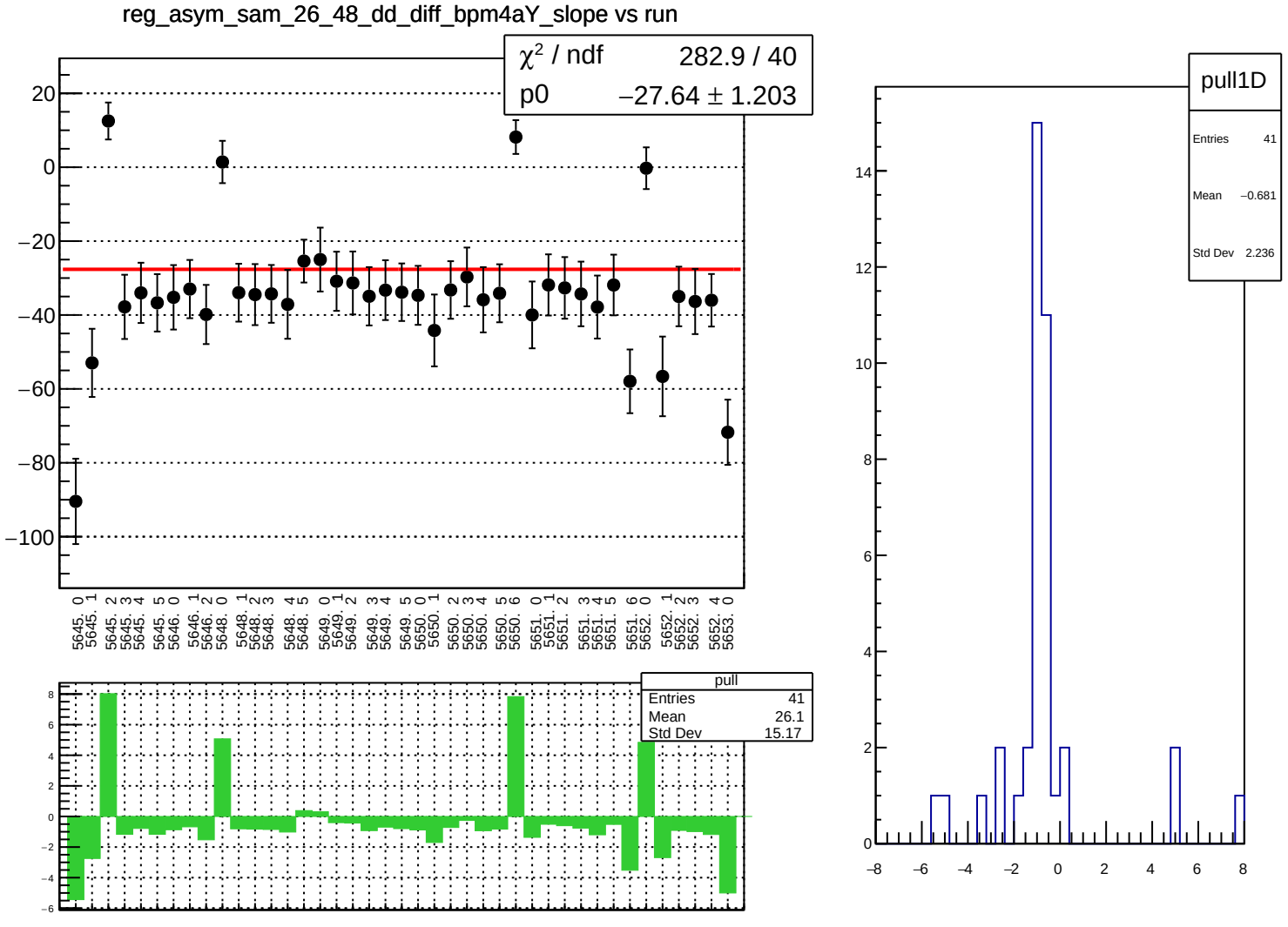

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.16 / 40
p0 −1.086 ± 3.52
pull
Entries 41
Mean 41.5
Std Dev 0

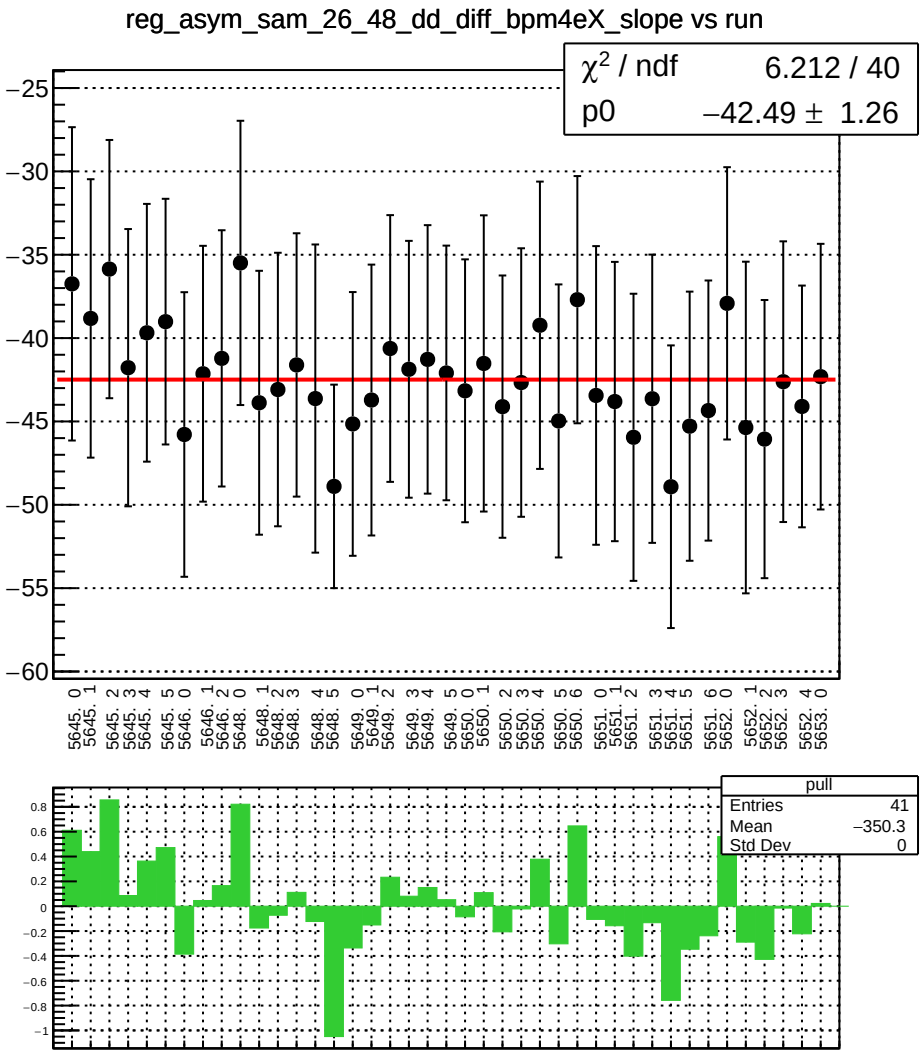

pull1D
Entries 41
Mean 0.1432
Std Dev 0.8011

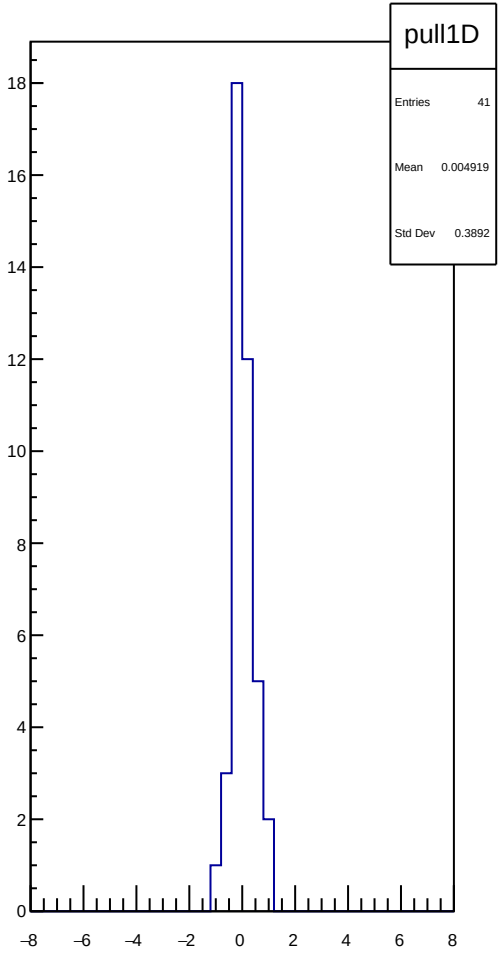

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.256 / 40
p0 −0.4998 ± 0.1204
pull
Entries 41
Mean −1170
Std Dev 0
pull1D
Entries 41
Mean 0.002024
Std Dev 0.2818

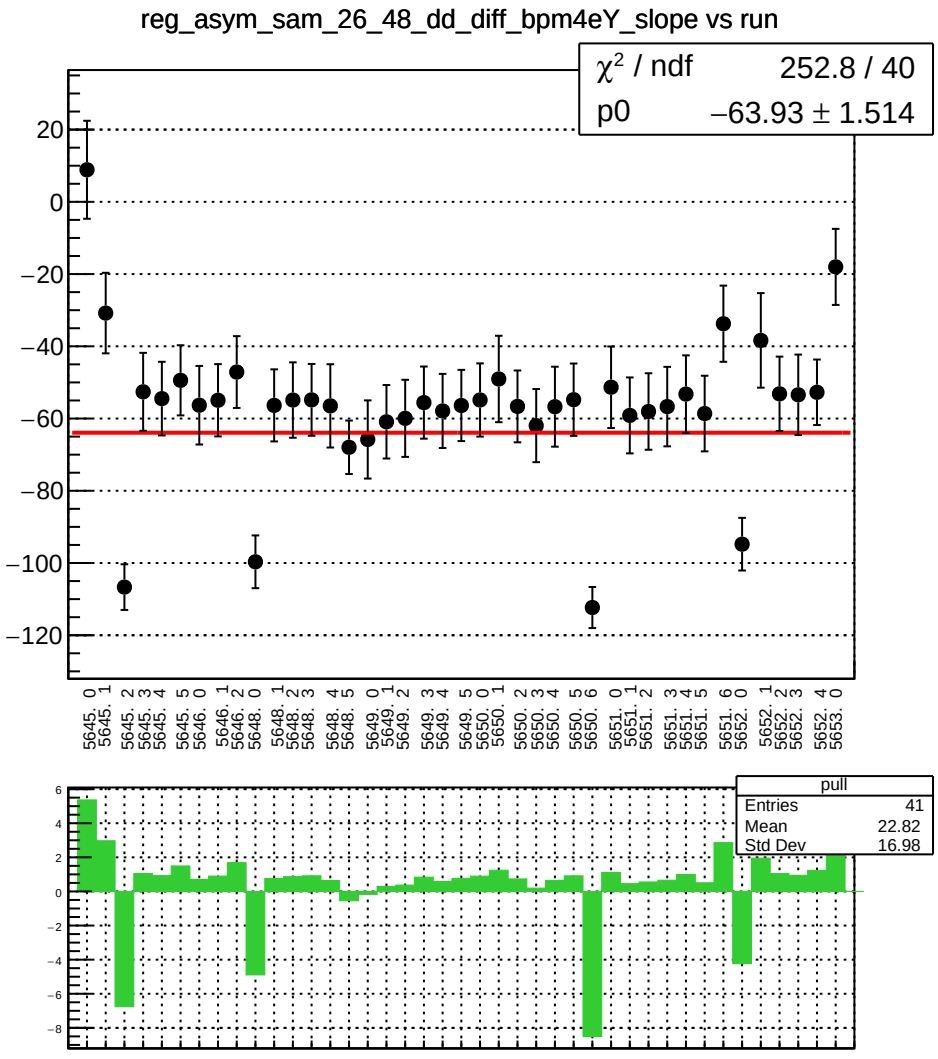

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.704 / 40
p0 7.28 ± 1.46
pull
Entries 41
Mean 23.11
Std Dev 21.42

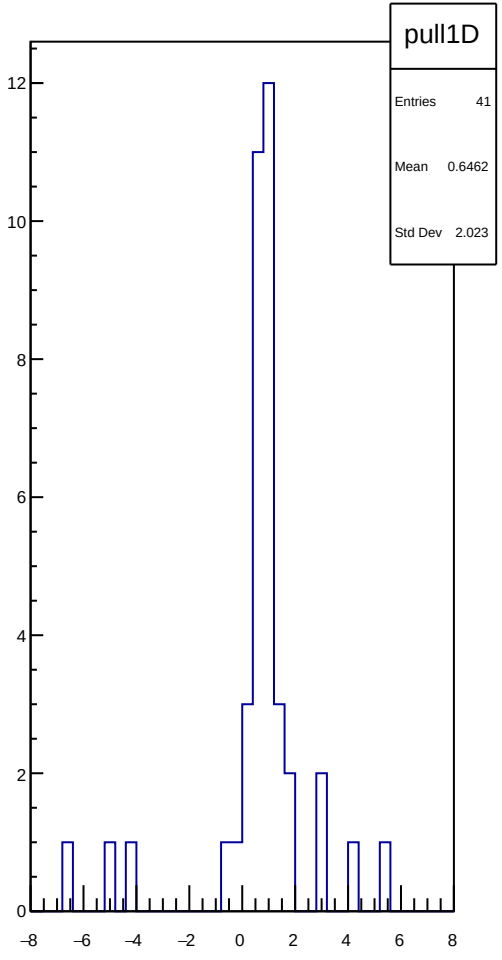

pull1D
Entries 41
Mean −0.007244
Std Dev 0.3386

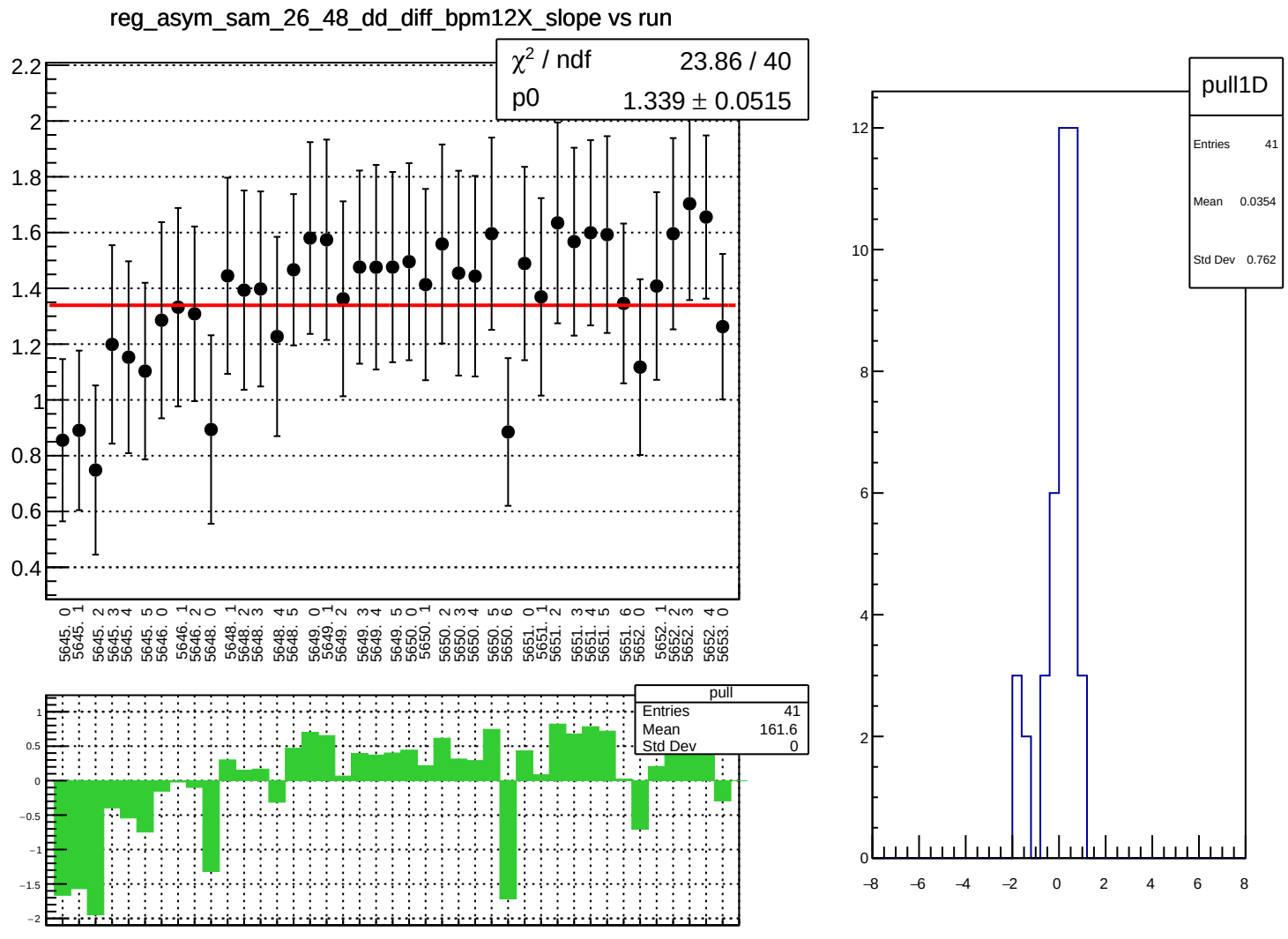

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 282.9 / 40
p0 −27.64 ± 1.203
pull
Entries 41
Mean 26.1
Std Dev 15.17
pull1D
Entries 41
Mean −0.681
Std Dev 2.236

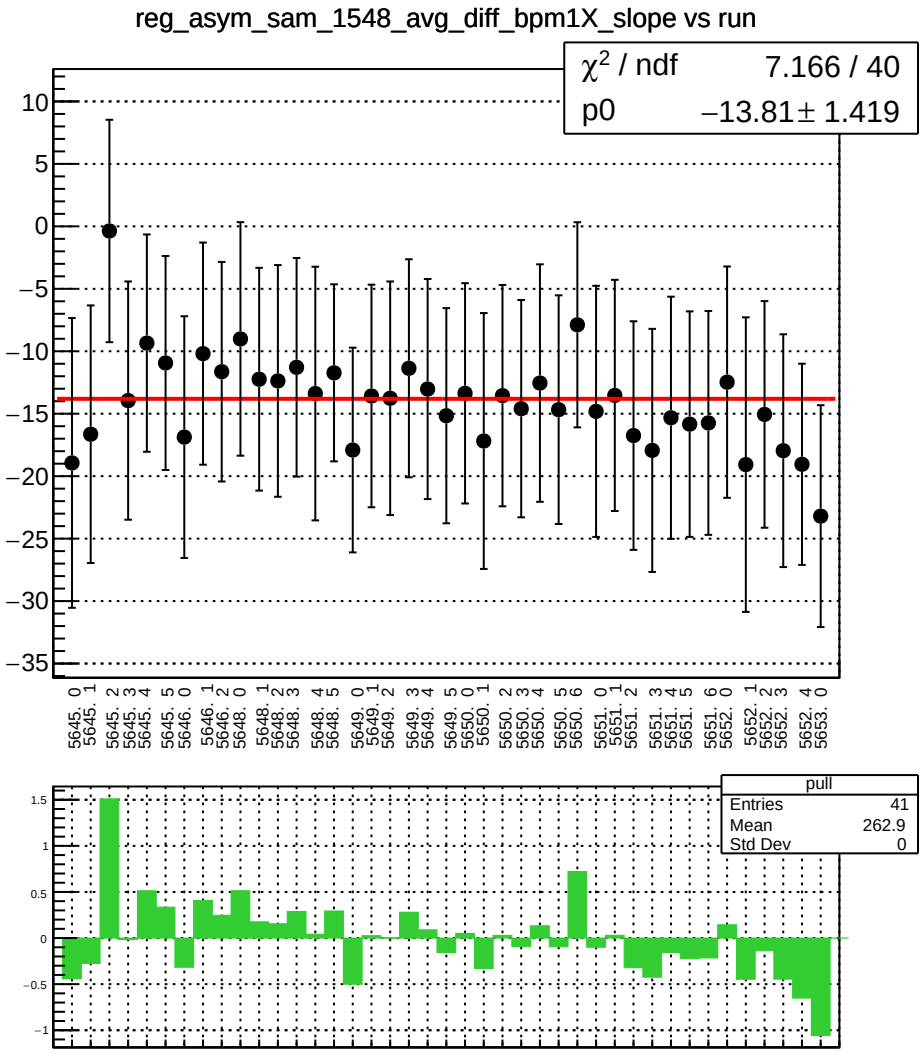

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.212 / 40
p0 −42.49 ± 1.26
pull
Entries 41
Mean −350.3
Std Dev 0

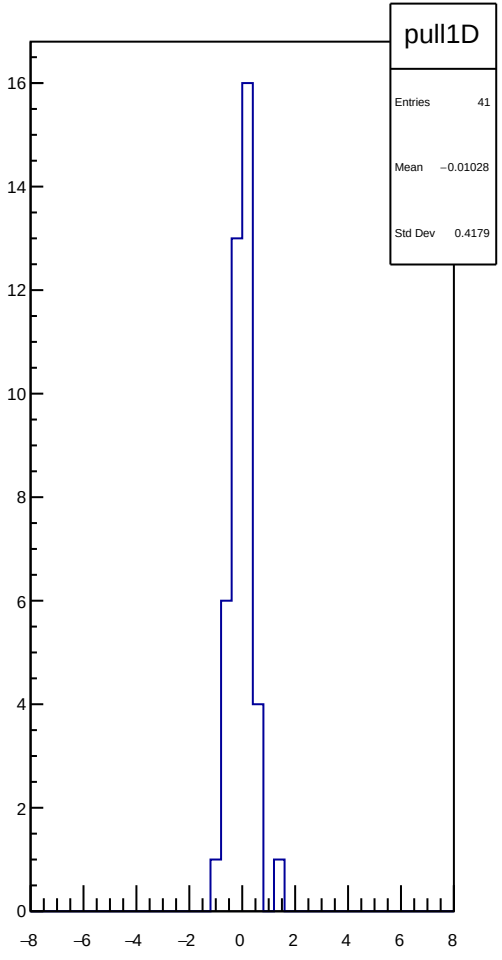

pull1D
Entries 41
Mean 0.004919
Std Dev 0.3892

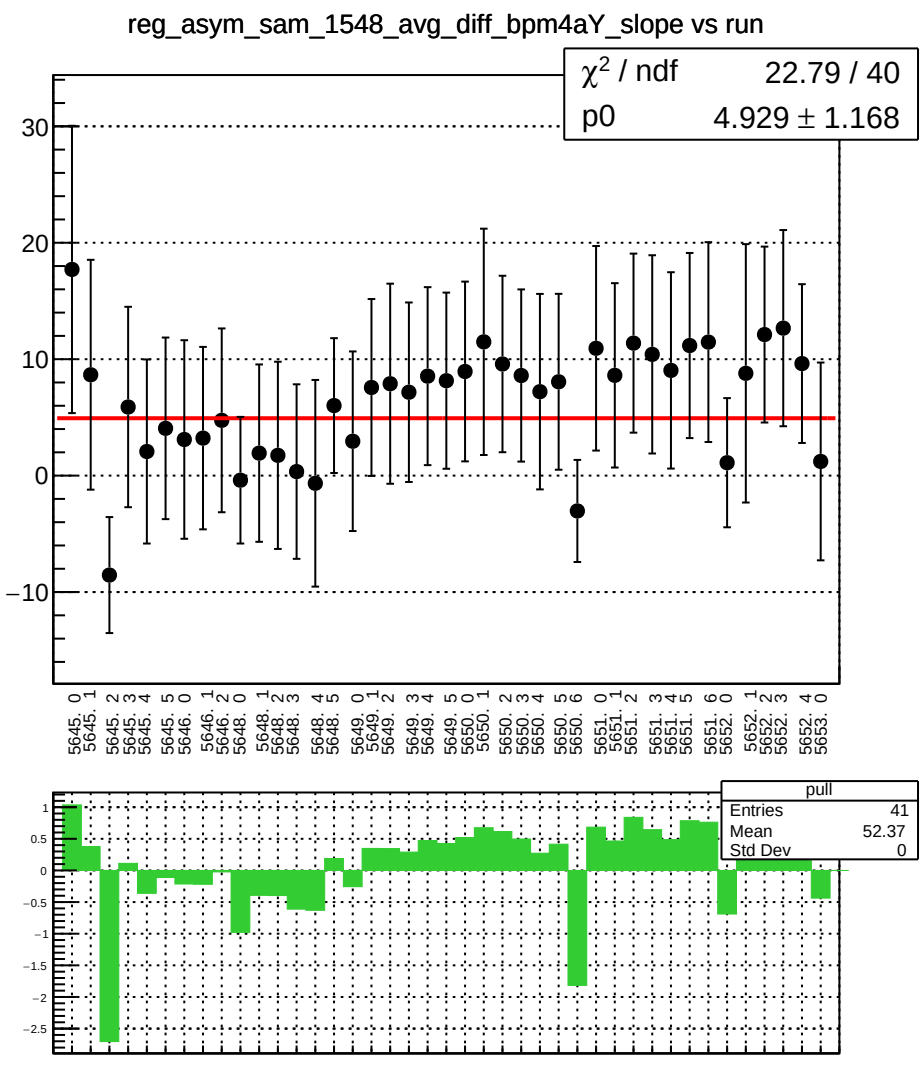

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 252.8 / 40
p0 −63.93 ± 1.514
pull
Entries 41
Mean 22.82
Std Dev 16.98

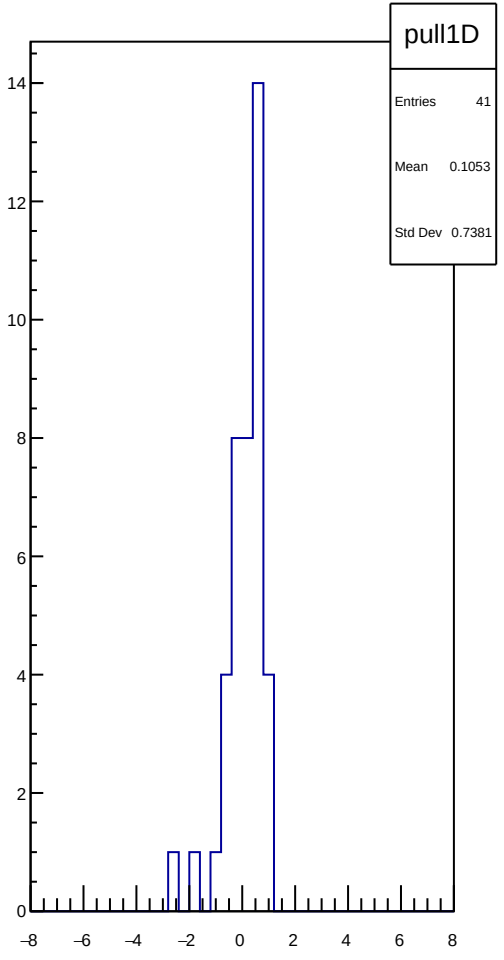

pull1D
Entries 41
Mean 0.6462
Std Dev 2.023

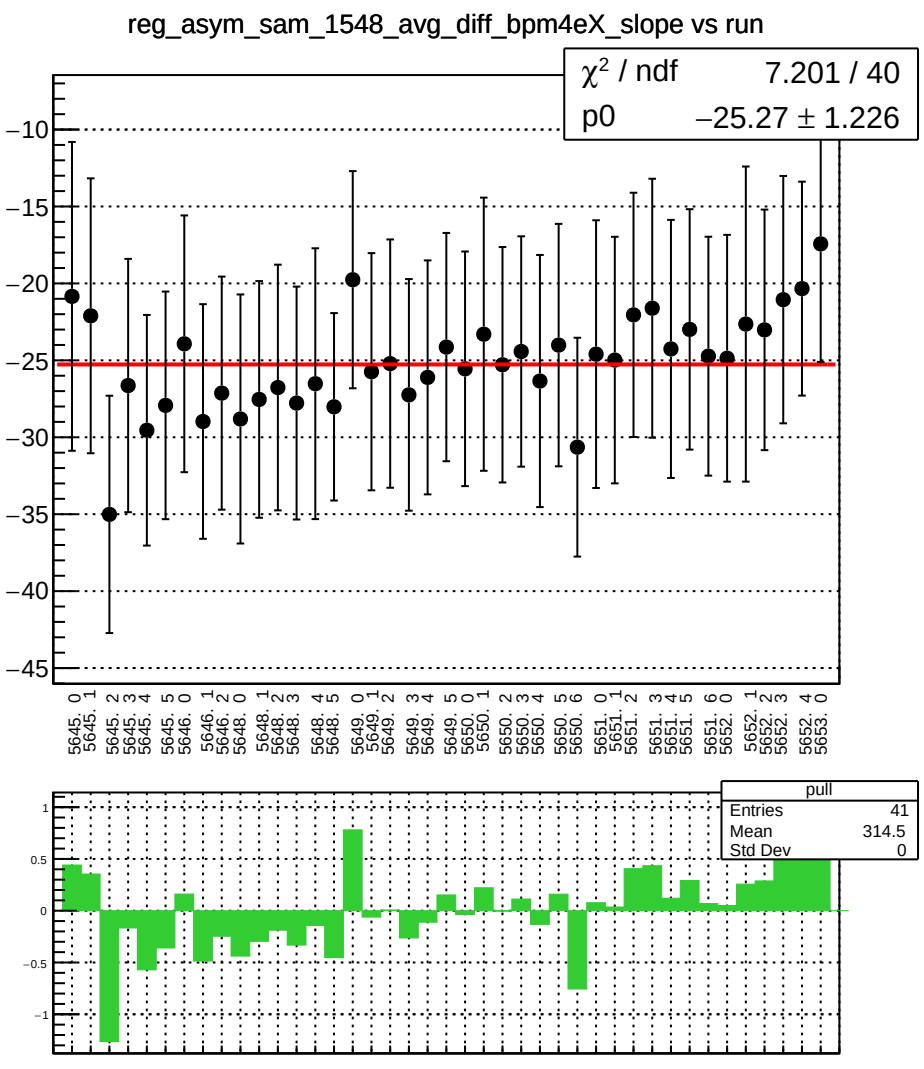

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 23.86 / 40
p0 1.339 ± 0.0515
pull
Entries 41
Mean 161.6
Std Dev 0
pull1D
Entries 41
Mean 0.0354
Std Dev 0.762

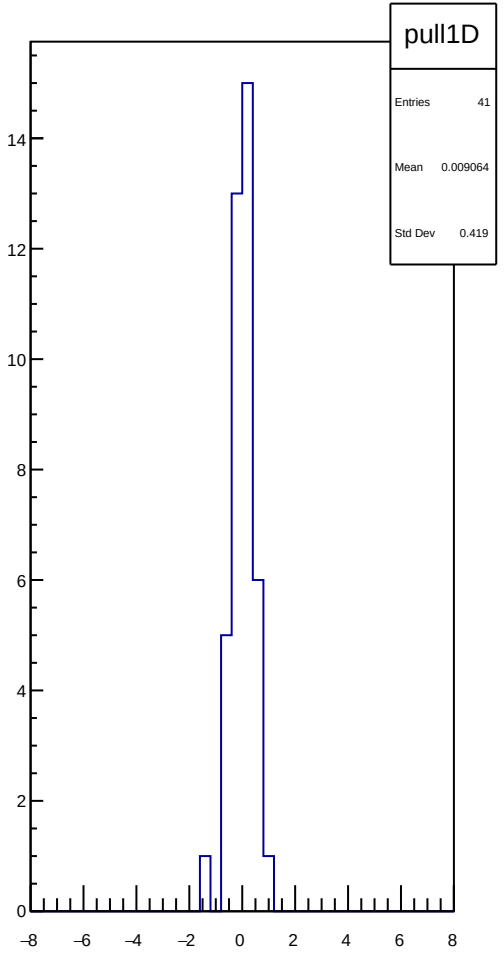

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 7.166 / 40
p0 −13.81± 1.419
pull
Entries 41
Mean 262.9
Std Dev 0

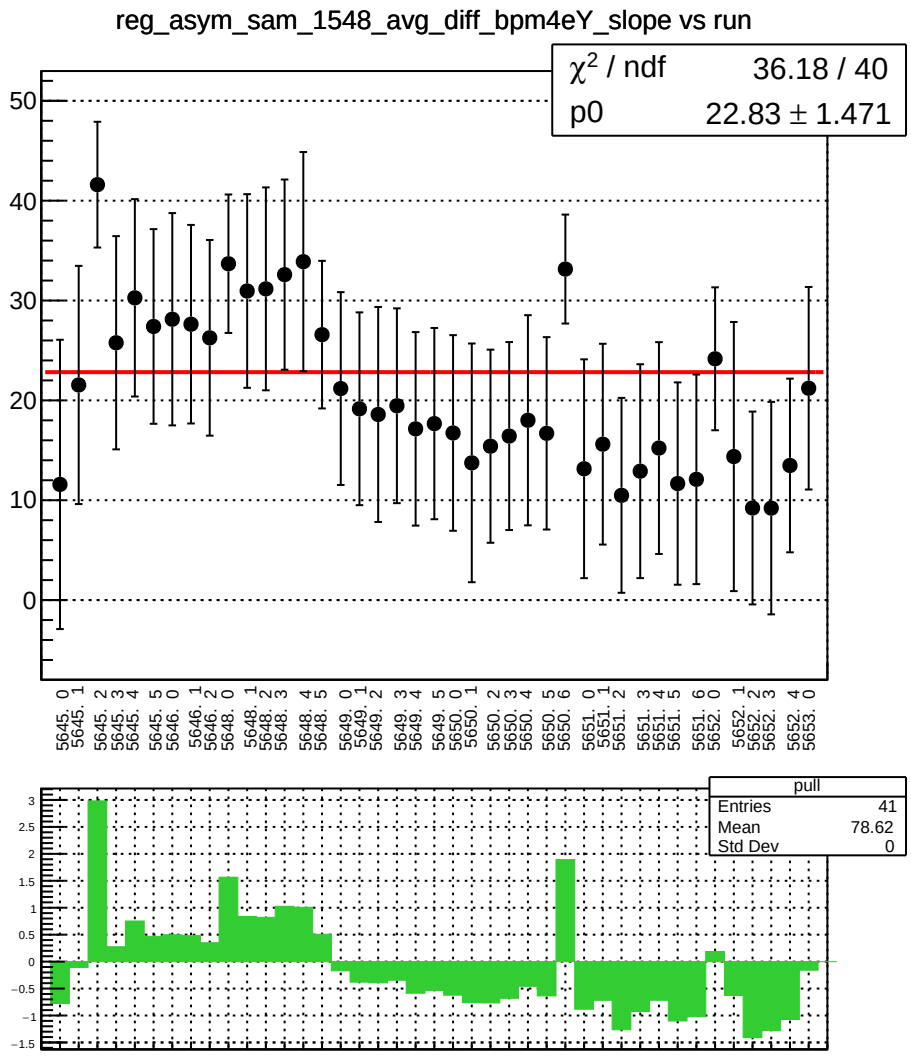

pull1D
Entries 41
Mean −0.01028
Std Dev 0.4179

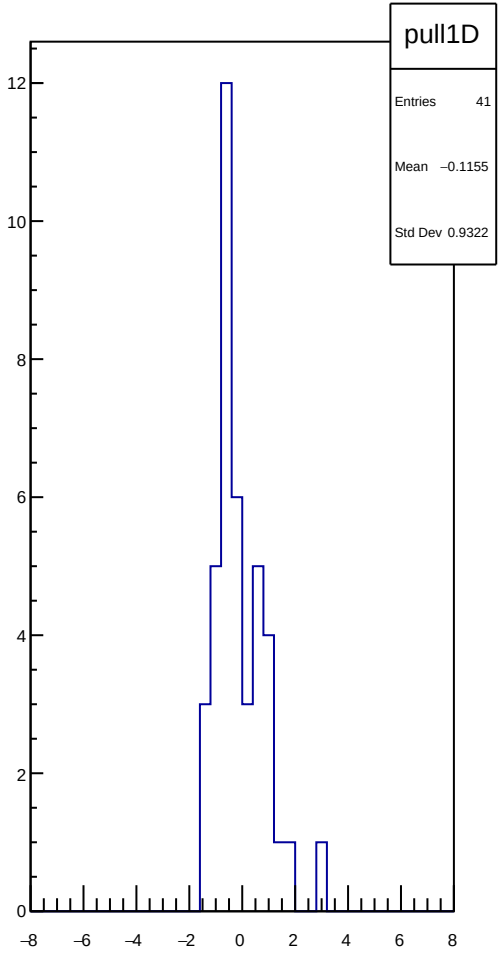

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.79 / 40
p0 4.929 ± 1.168
pull
Entries 41
Mean 52.37
Std Dev 0

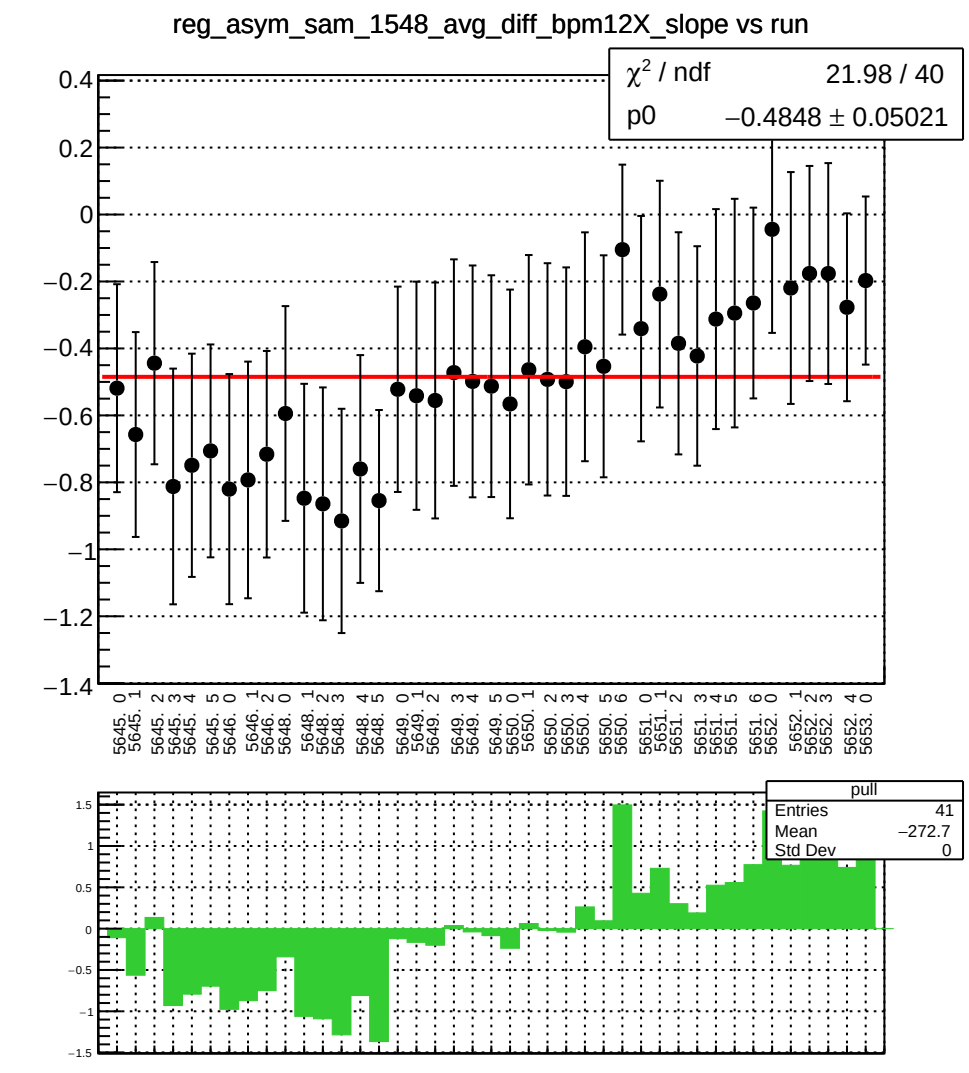

pull1D
Entries 41
Mean 0.1053
Std Dev 0.7381

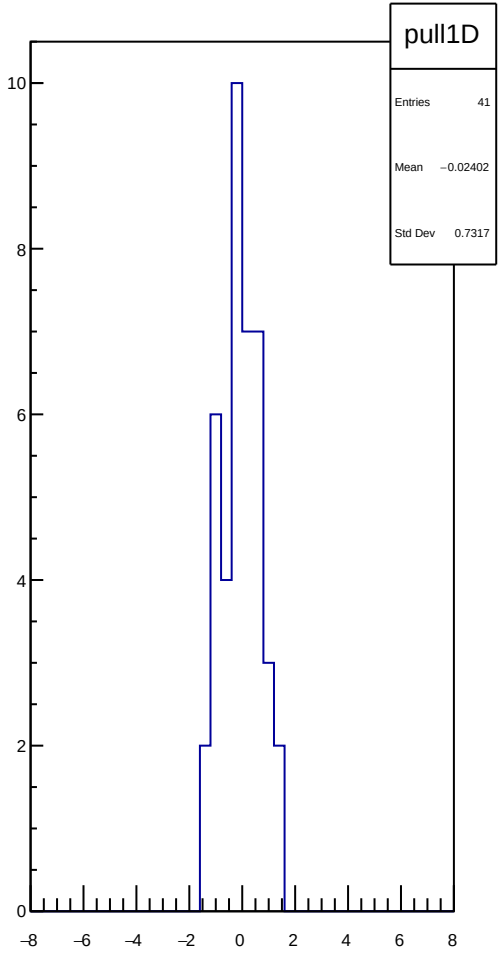

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.201 / 40
p0 −25.27 ± 1.226
pull
Entries 41
Mean 314.5
Std Dev 0

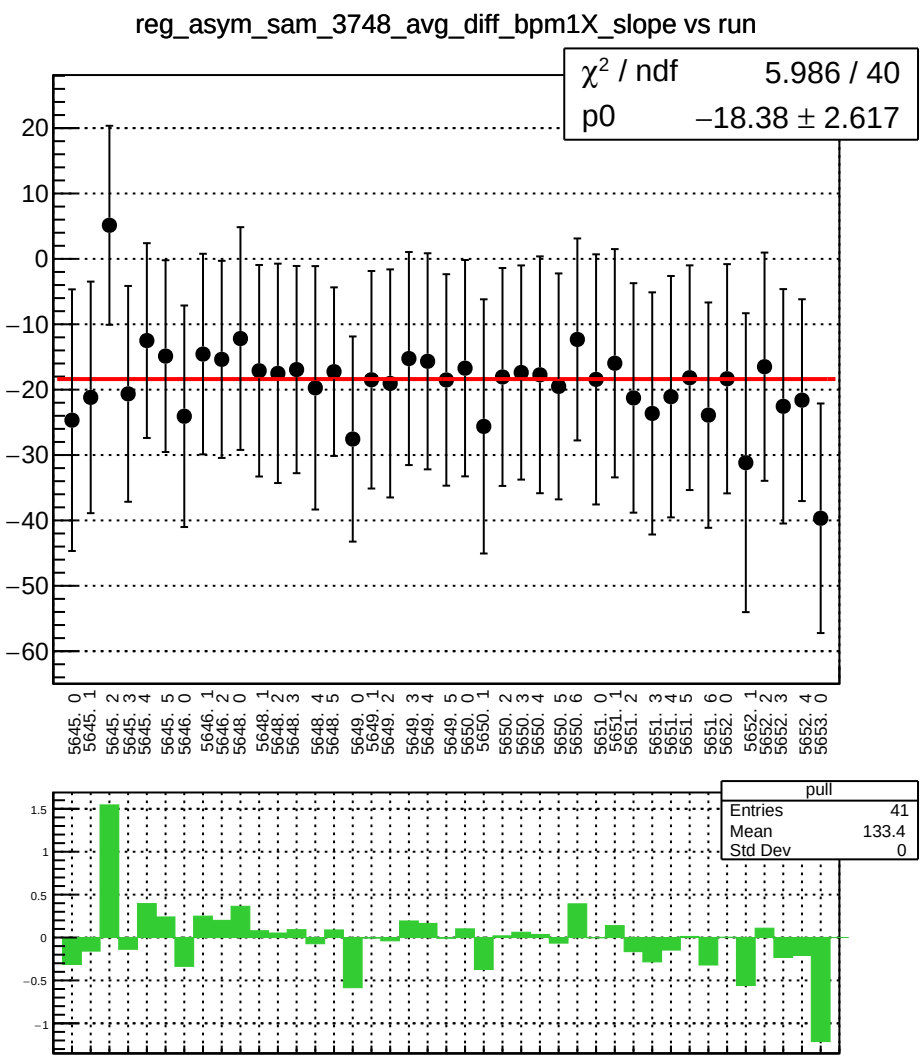

pull1D
Entries 41
Mean 0.009064
Std Dev 0.419

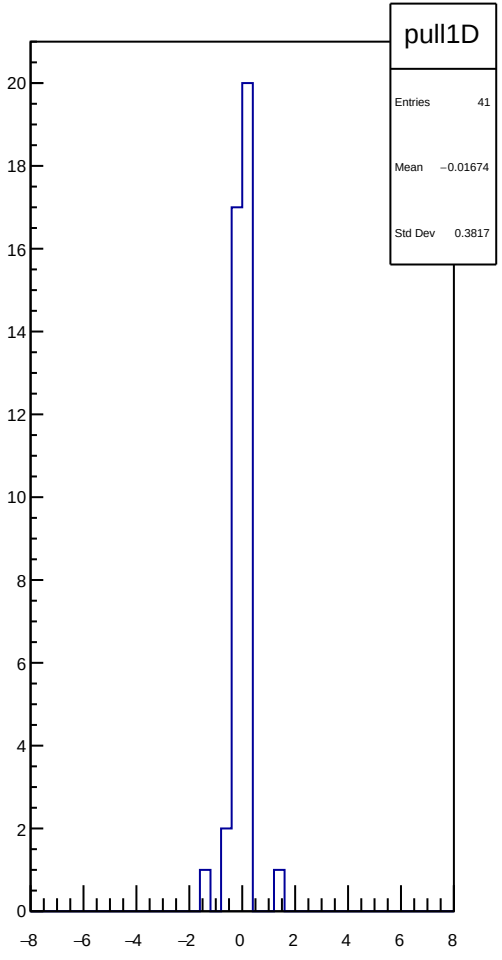

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.18 / 40
p0 22.83 ± 1.471
pull
Entries 41
Mean 78.62
Std Dev 0

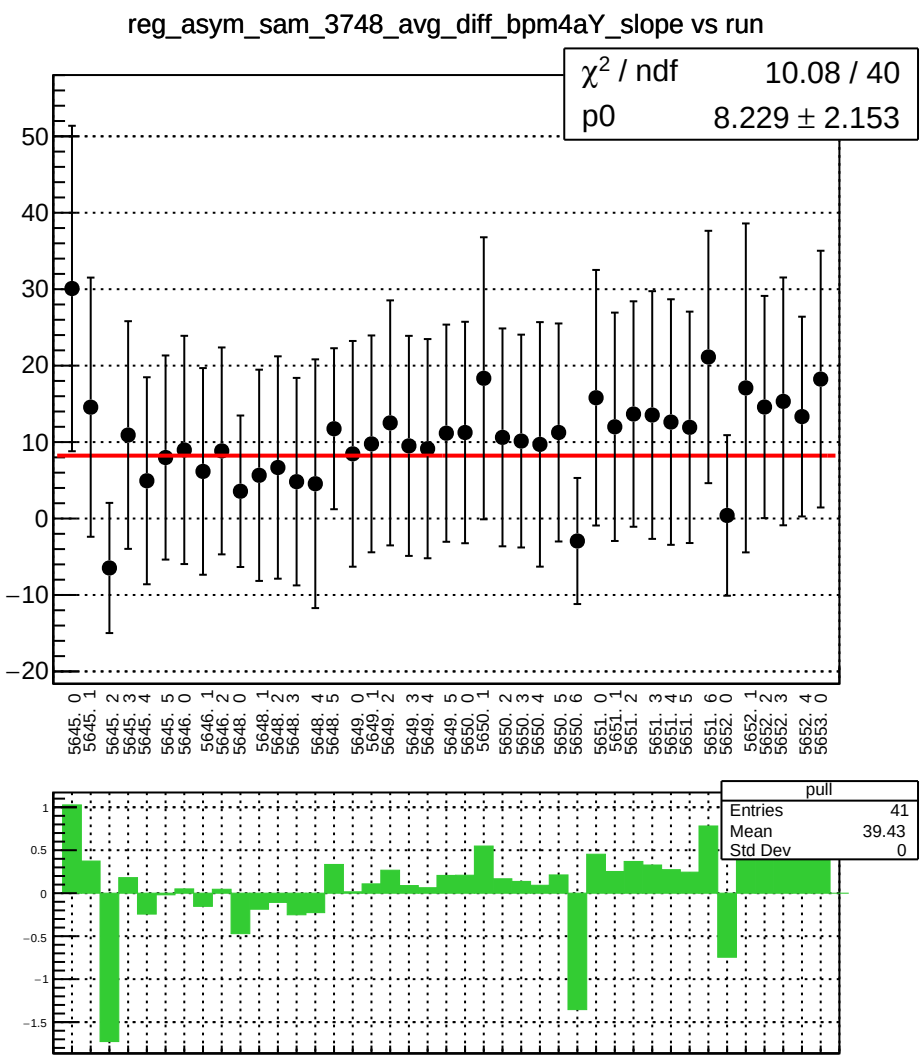

pull1D
Entries 41
Mean −0.1155
Std Dev 0.9322

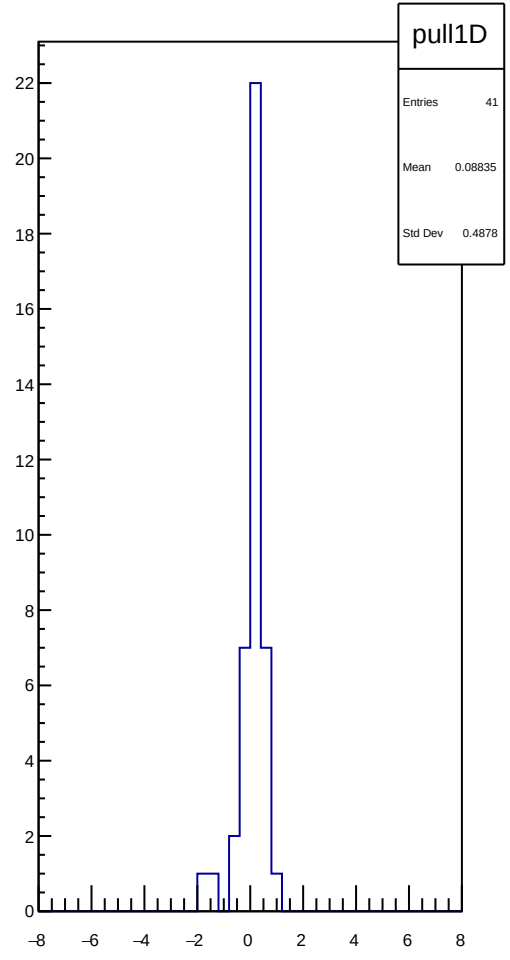

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 21.98 / 40
p0 −0.4848 ± 0.05021
pull
Entries 41
Mean −272.7
Std Dev 0

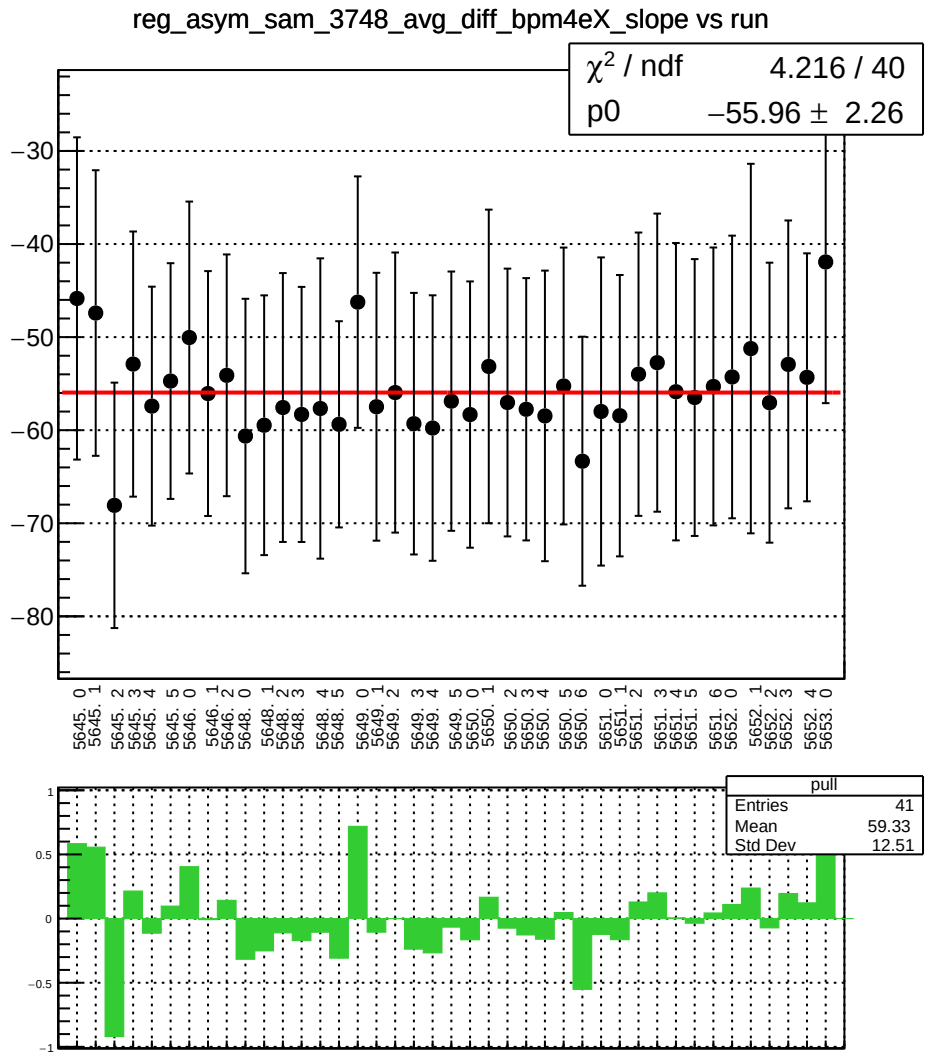

pull1D
Entries 41
Mean −0.02402
Std Dev 0.7317

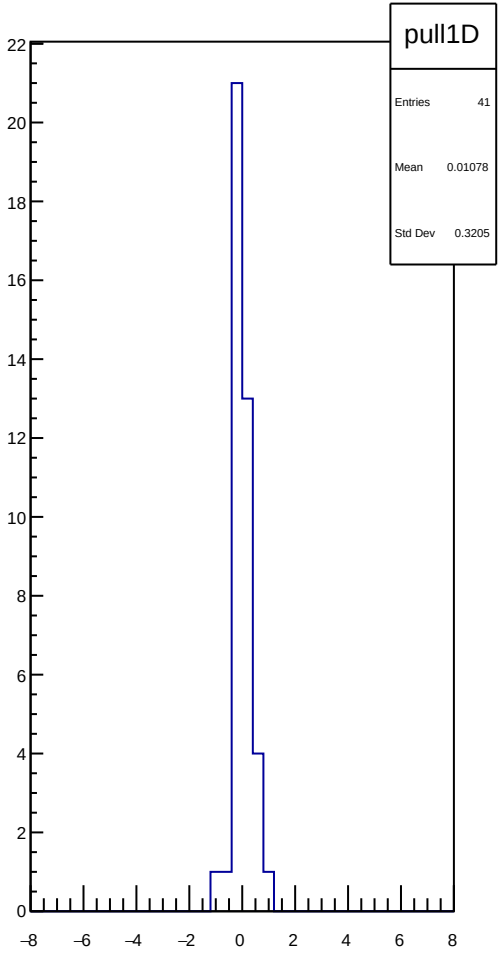

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 5.986 / 40
p0 −18.38 ± 2.617
pull
Entries 41
Mean 133.4
Std Dev 0

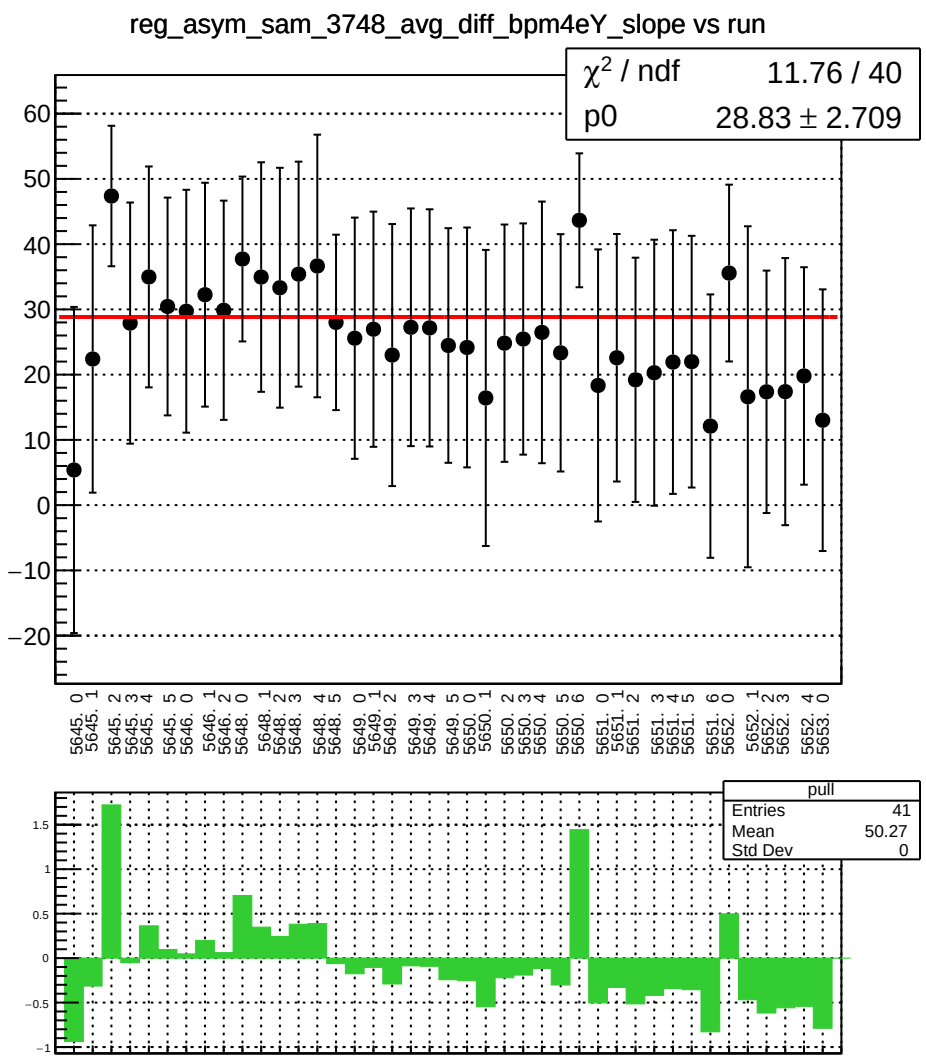

pull1D
Entries 41
Mean −0.01674
Std Dev 0.3817

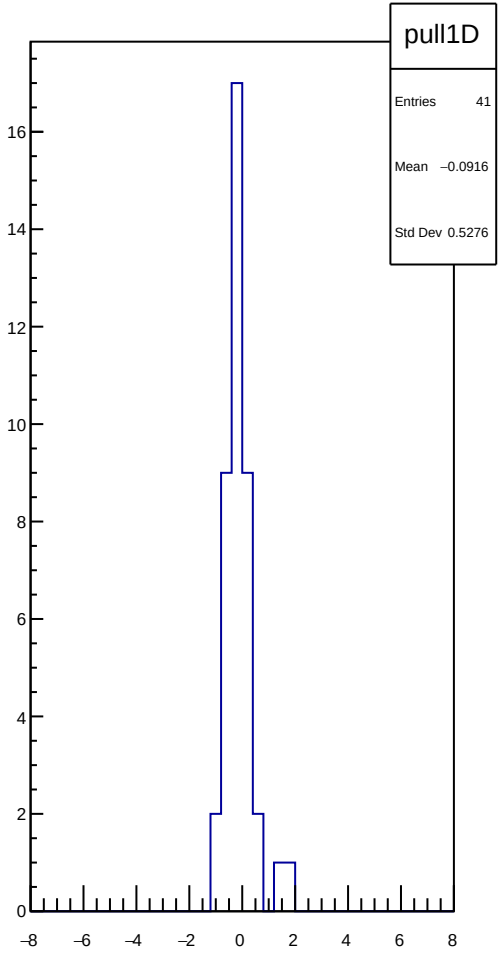

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.08 / 40
p0 8.229 ± 2.153
pull
Entries 41
Mean 39.43
Std Dev 0

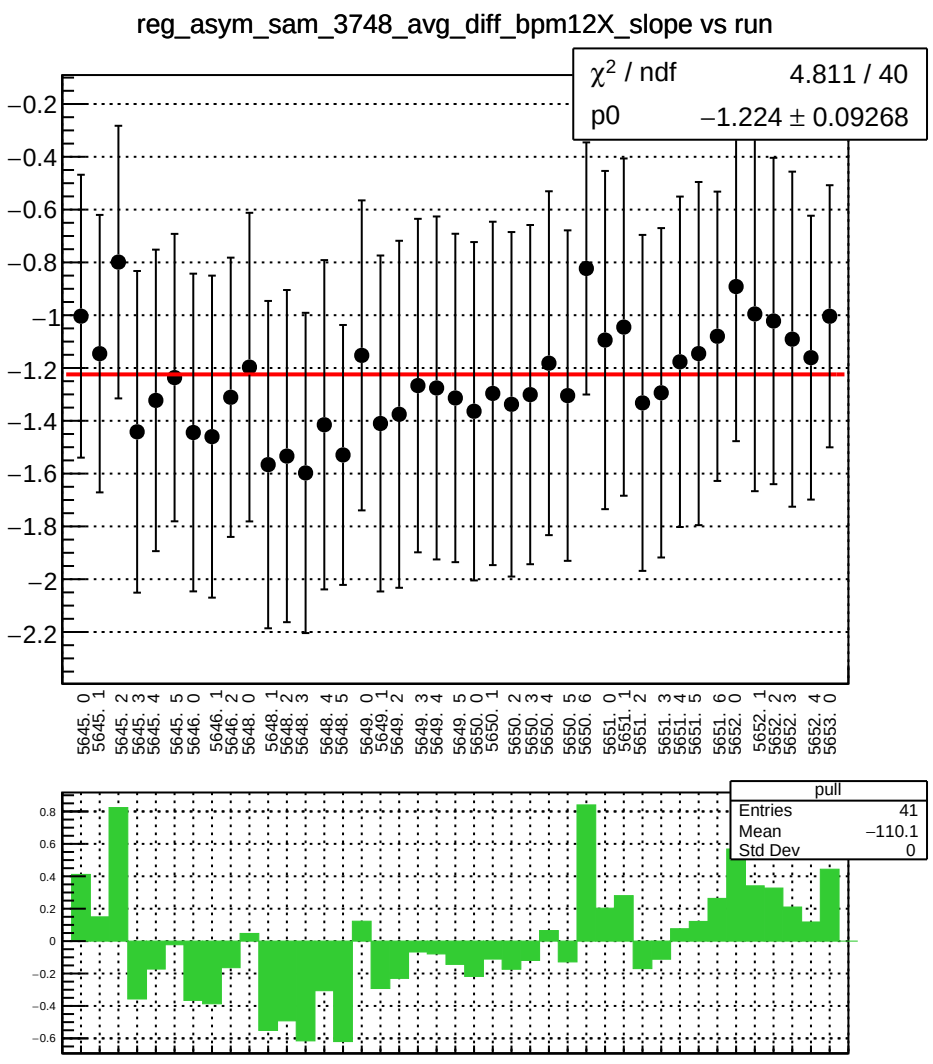

pull1D
Entries 41
Mean 0.08835
Std Dev 0.4878

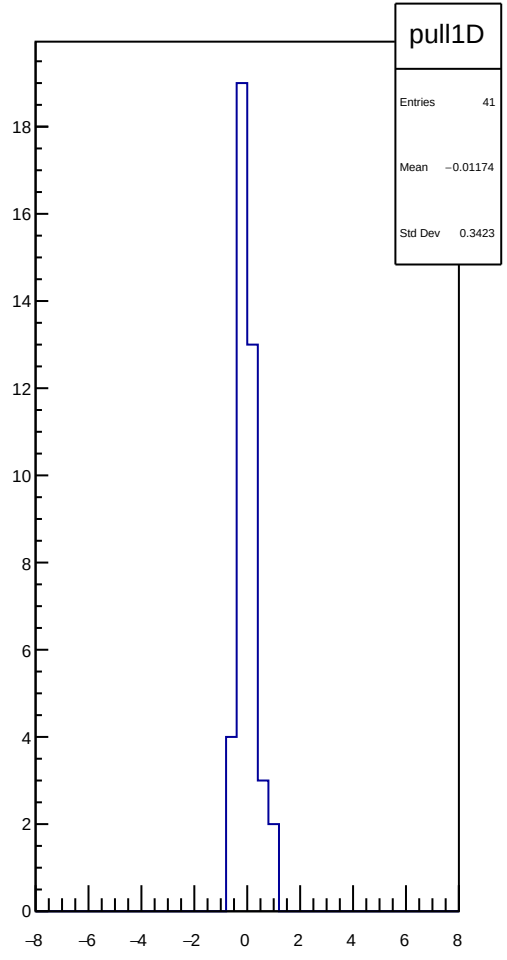

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.216 / 40
p0 −55.96 ± 2.26
pull
Entries 41
Mean 59.33
Std Dev 12.51

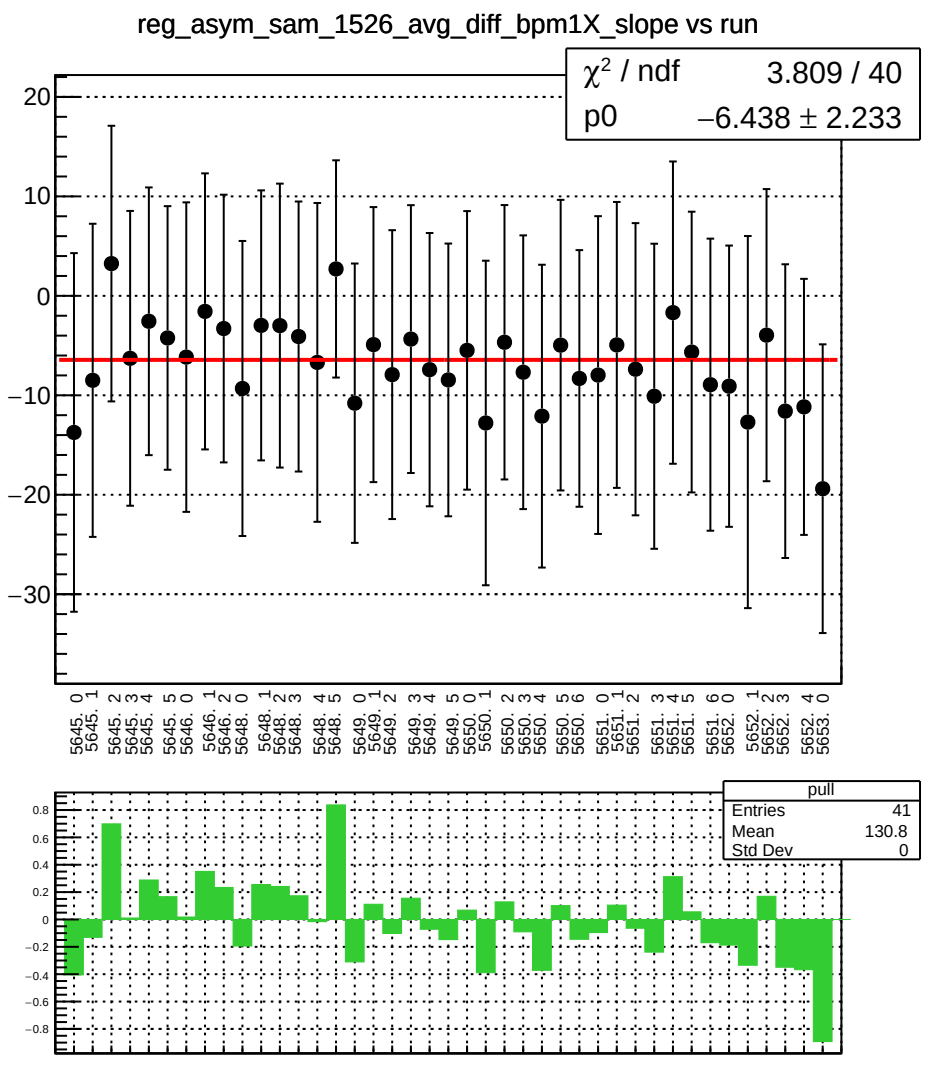

pull1D
Entries 41
Mean 0.01078
Std Dev 0.3205

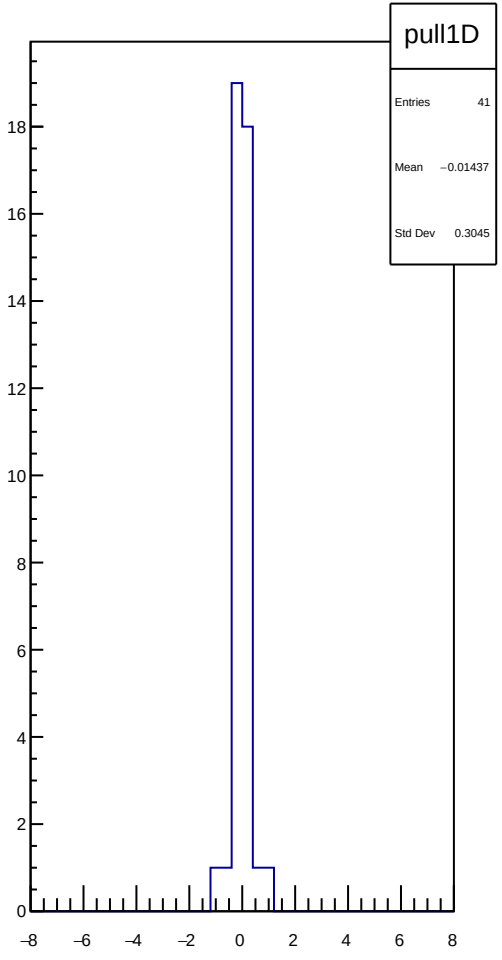

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.76 / 40
p0 28.83 ± 2.709
pull
Entries 41
Mean 50.27
Std Dev 0

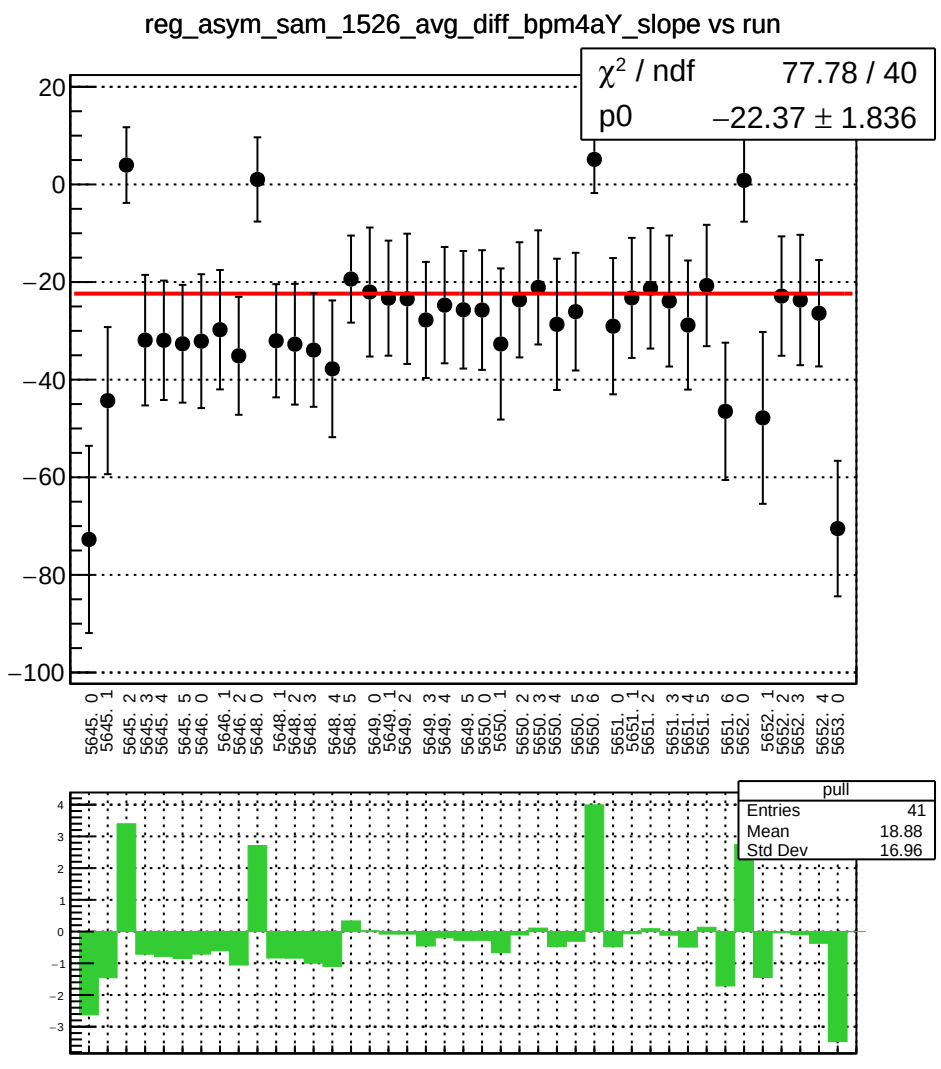

pull1D
Entries 41
Mean −0.0916
Std Dev 0.5276

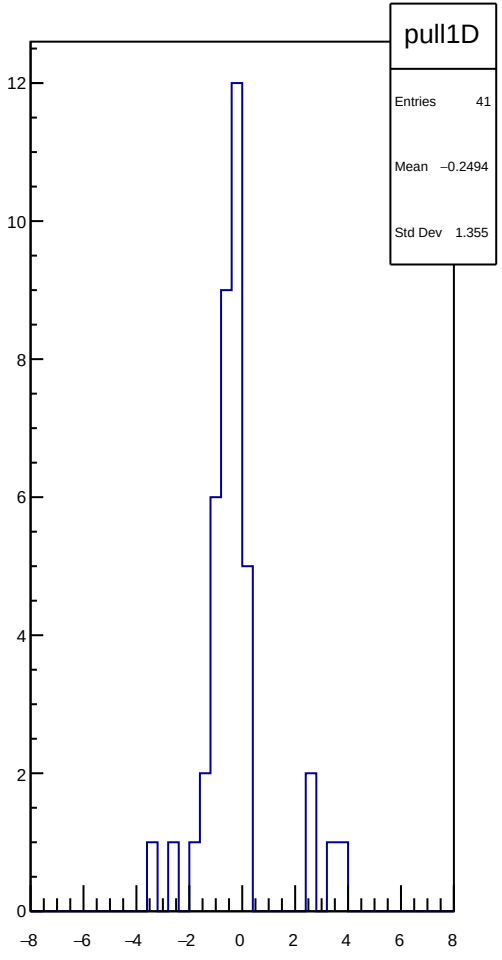

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 4.811 / 40
p0 −1.224 ± 0.09268
pull
Entries 41
Mean −110.1
Std Dev 0

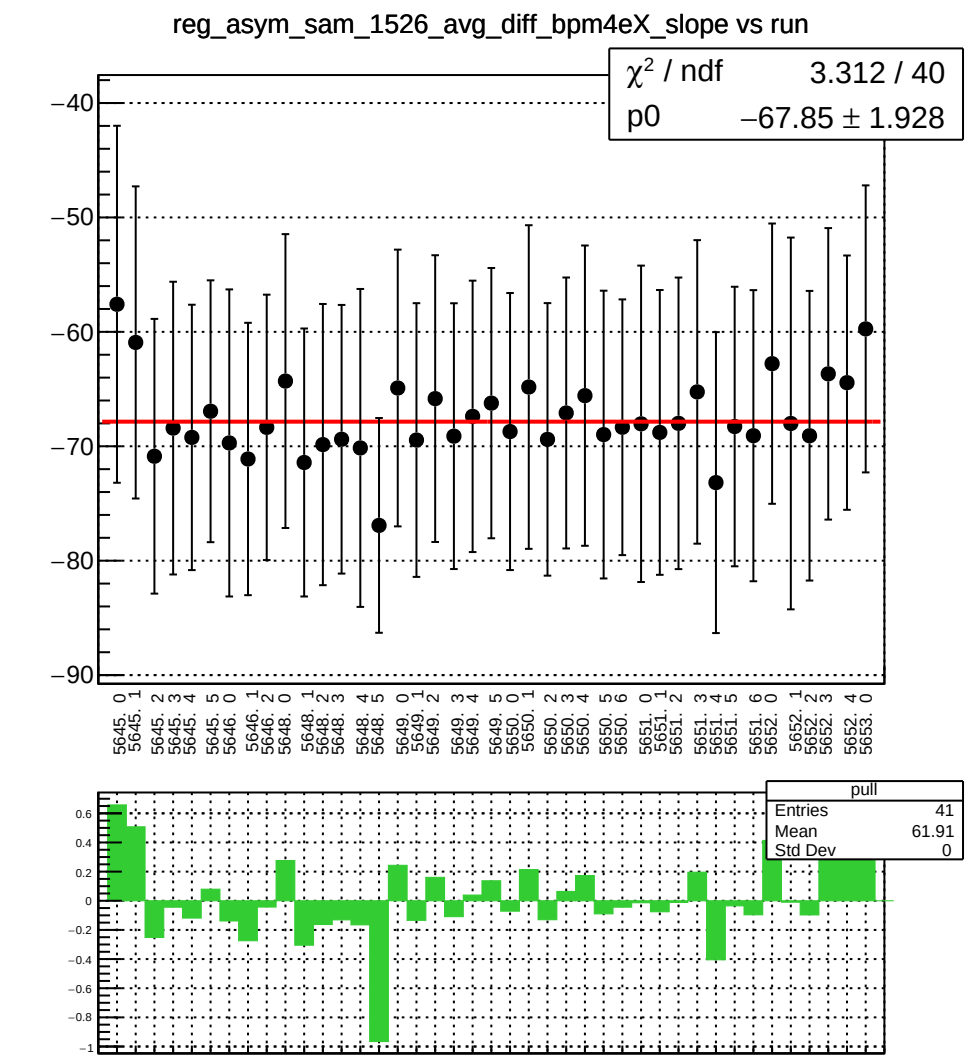

pull1D
Entries 41
Mean −0.01174
Std Dev 0.3423

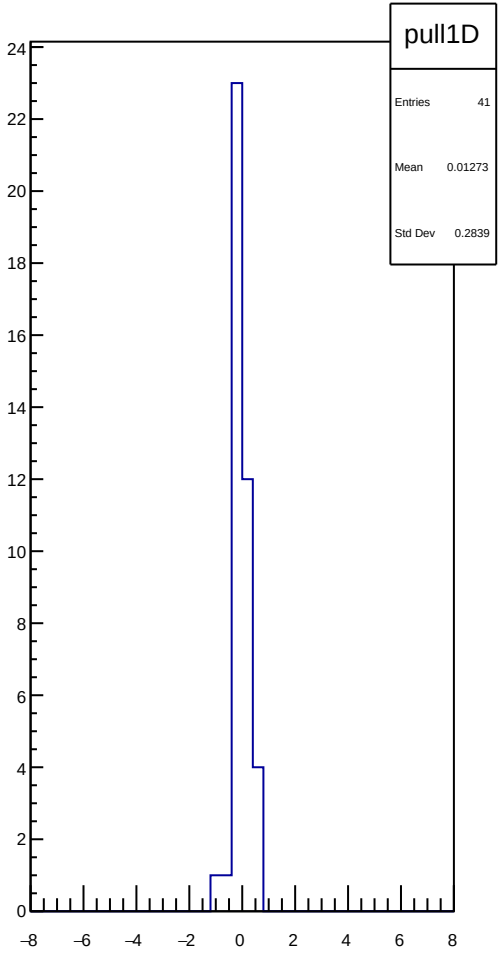

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 3.809 / 40
p0 −6.438 ± 2.233
pull
Entries 41
Mean 130.8
Std Dev 0

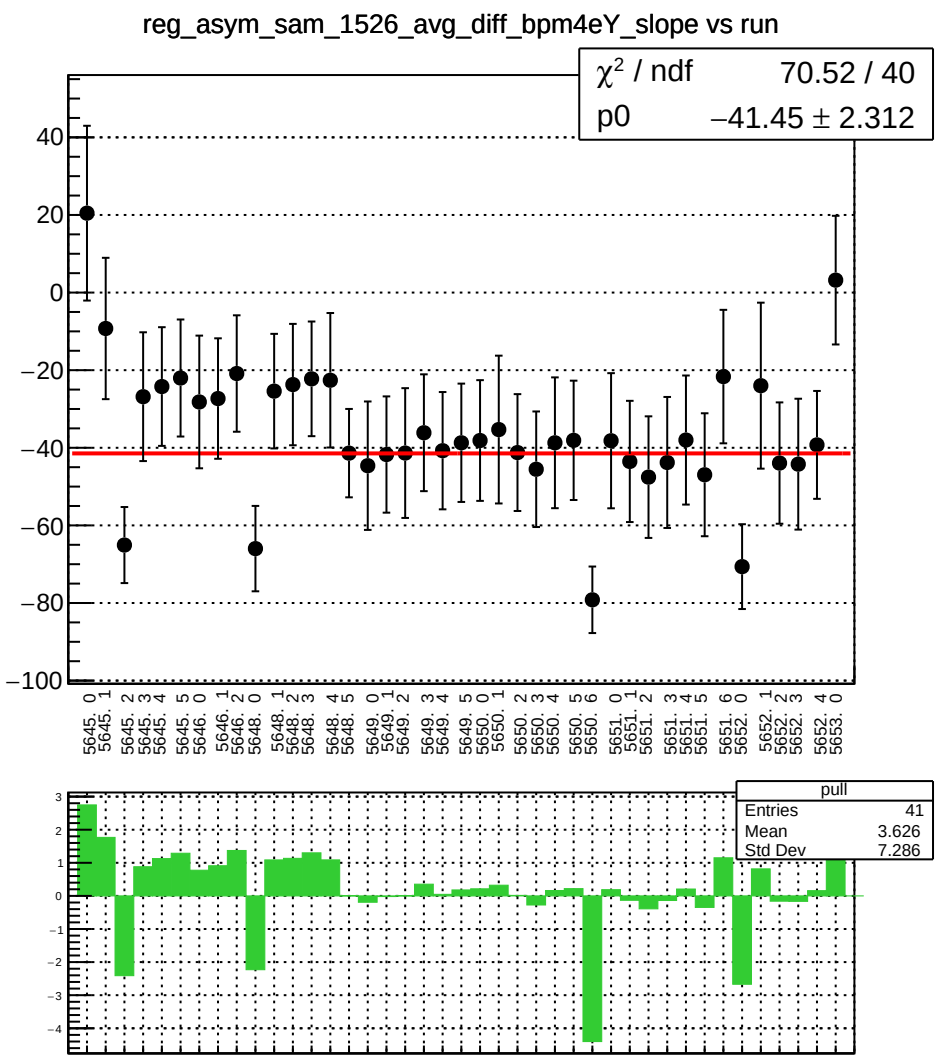

pull1D
Entries 41
Mean −0.01437
Std Dev 0.3045

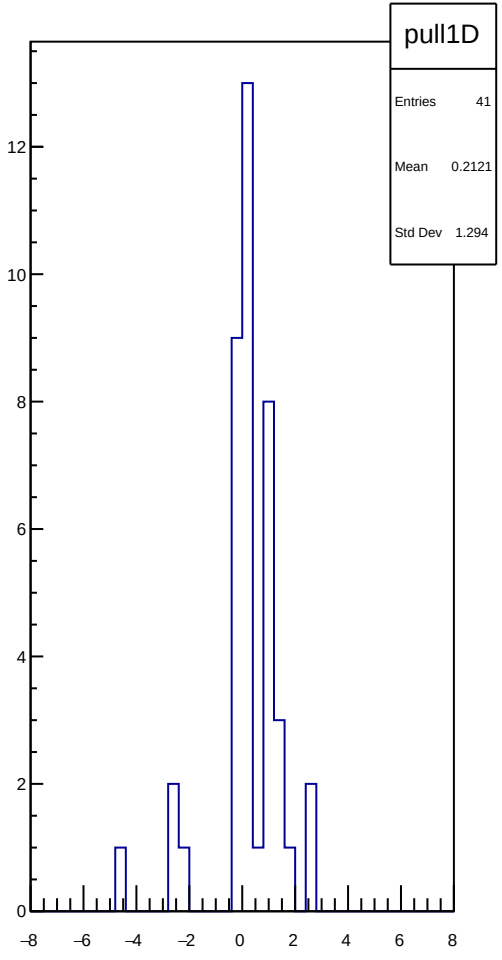

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.78 / 40
p0 −22.37 ± 1.836
pull
Entries 41
Mean 18.88
Std Dev 16.96

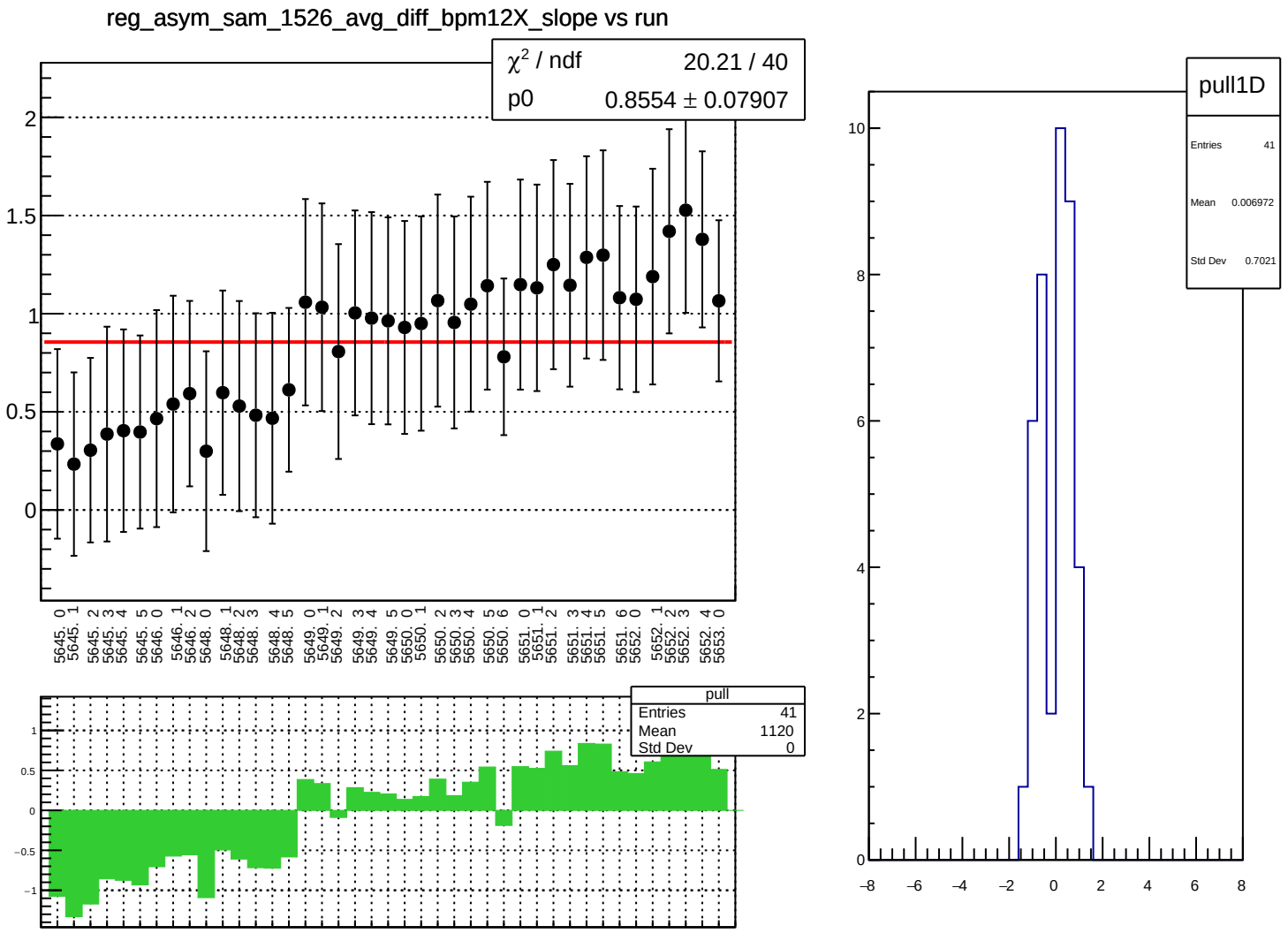

pull1D
Entries 41
Mean −0.2494
Std Dev 1.355

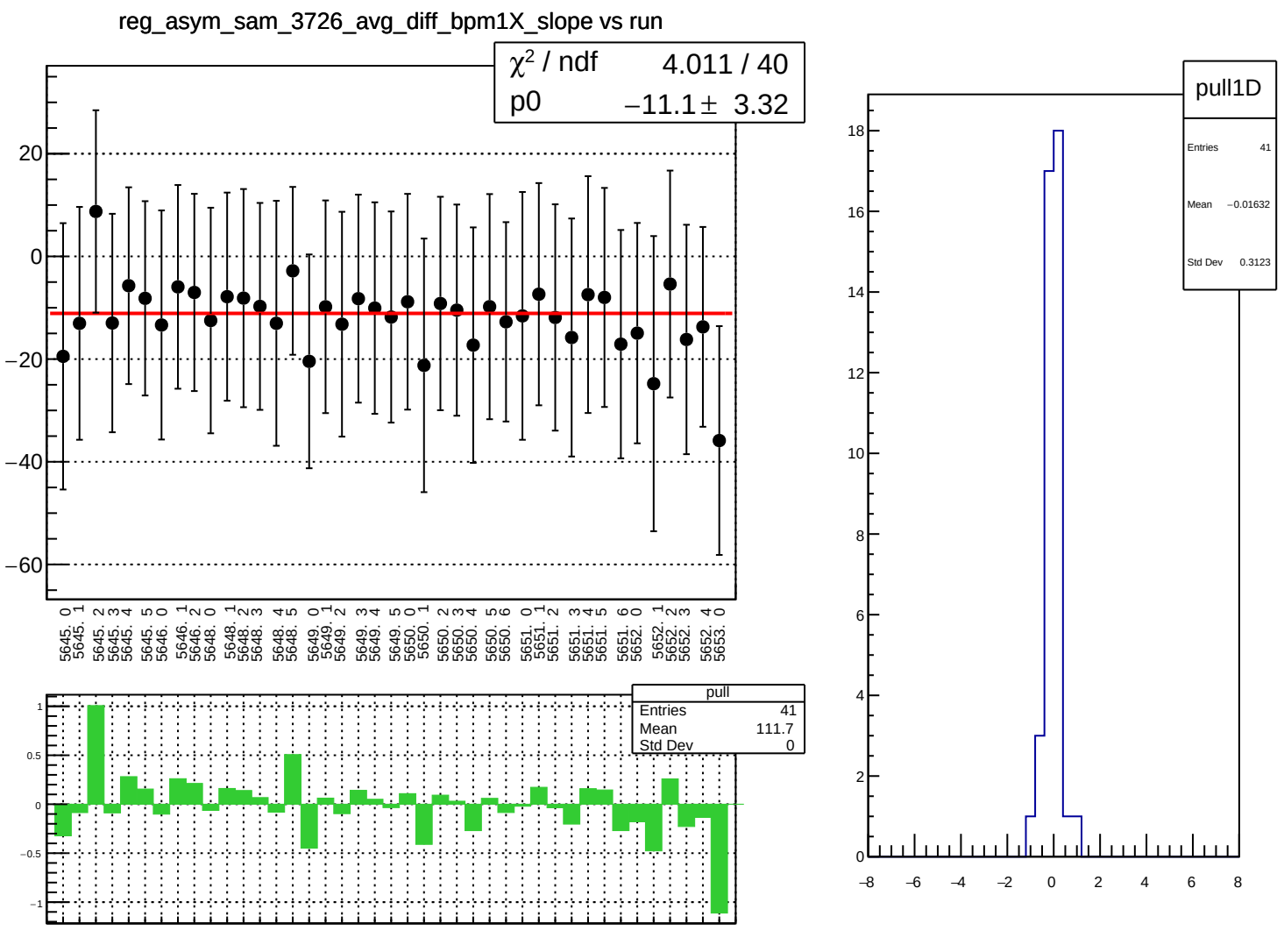

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.312 / 40
p0 −67.85 ± 1.928
pull
Entries 41
Mean 61.91
Std Dev 0

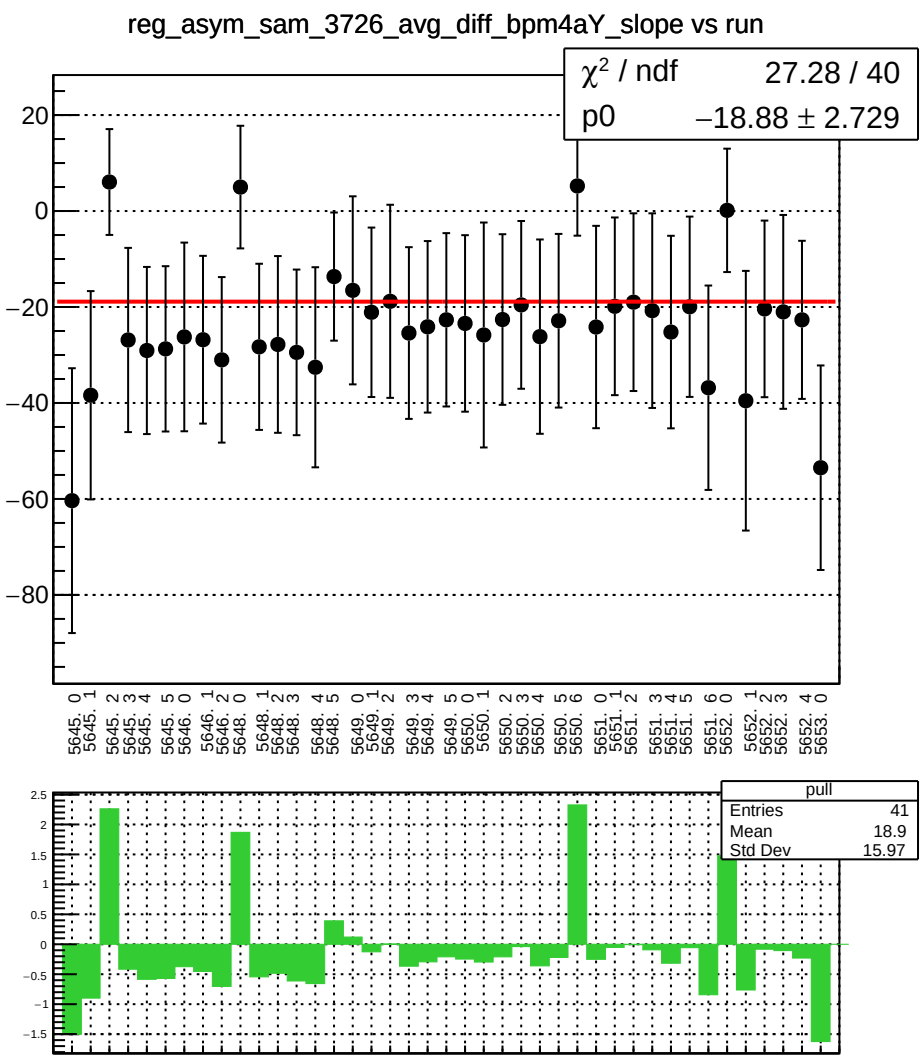

pull1D
Entries 41
Mean 0.01273
Std Dev 0.2839

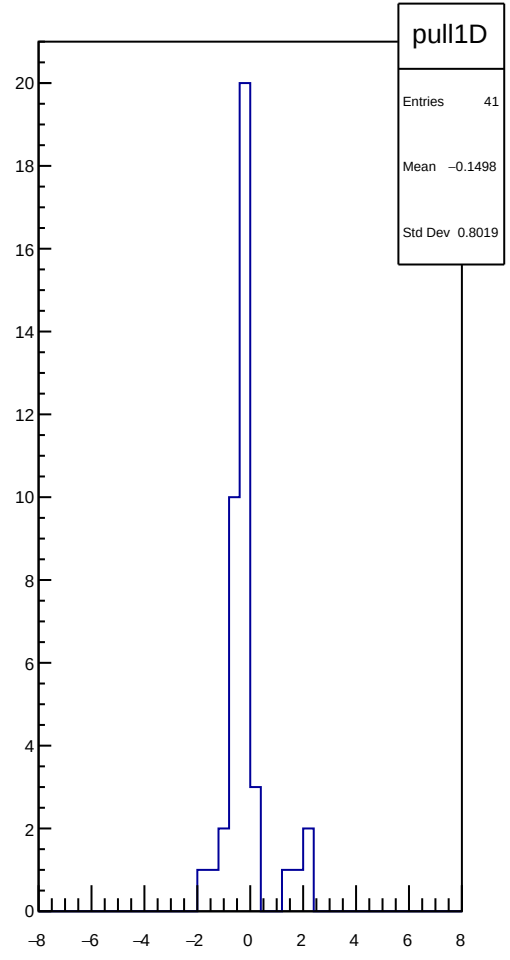

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.52 / 40
p0 −41.45 ± 2.312
pull
Entries 41
Mean 3.626
Std Dev 7.286

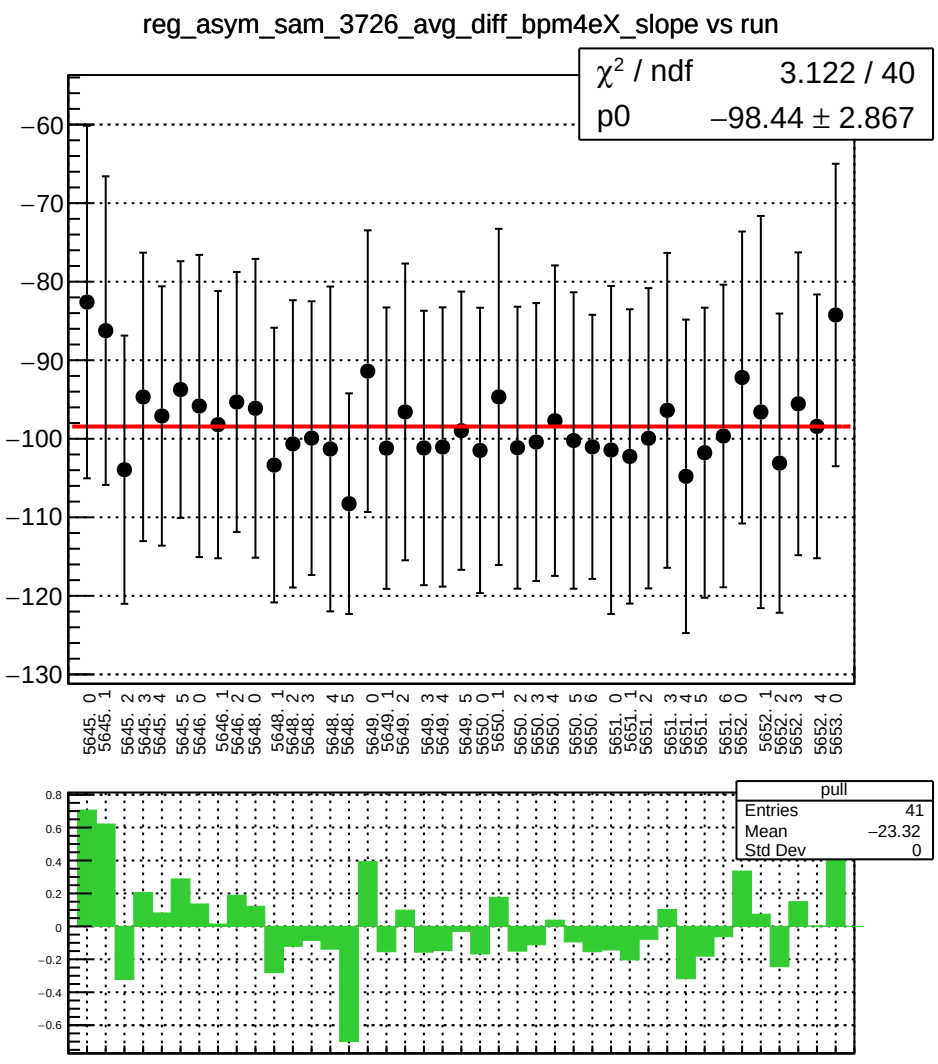

pull1D
Entries 41
Mean 0.2121
Std Dev 1.294

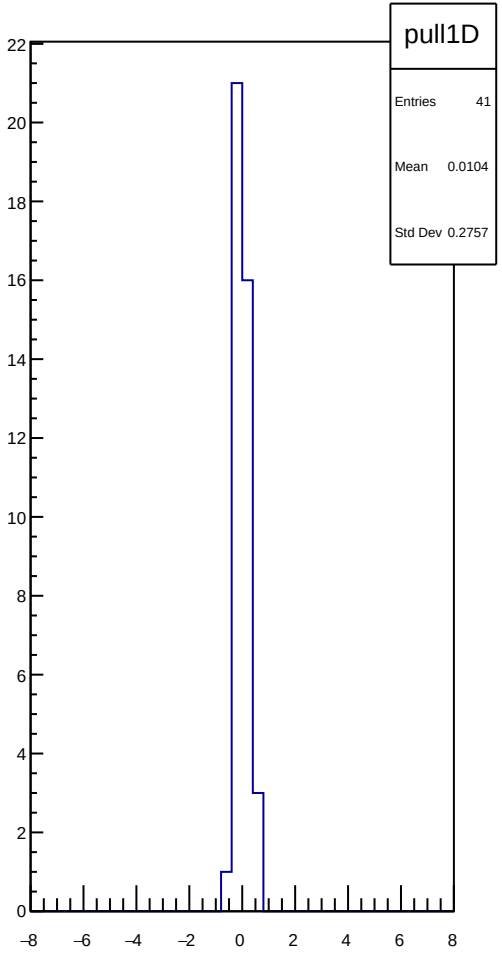

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 20.21 / 40
p0 0.8554 ± 0.07907
pull
Entries 41
Mean 1120
Std Dev 0
pull1D
Entries 41
Mean 0.006972
Std Dev 0.7021

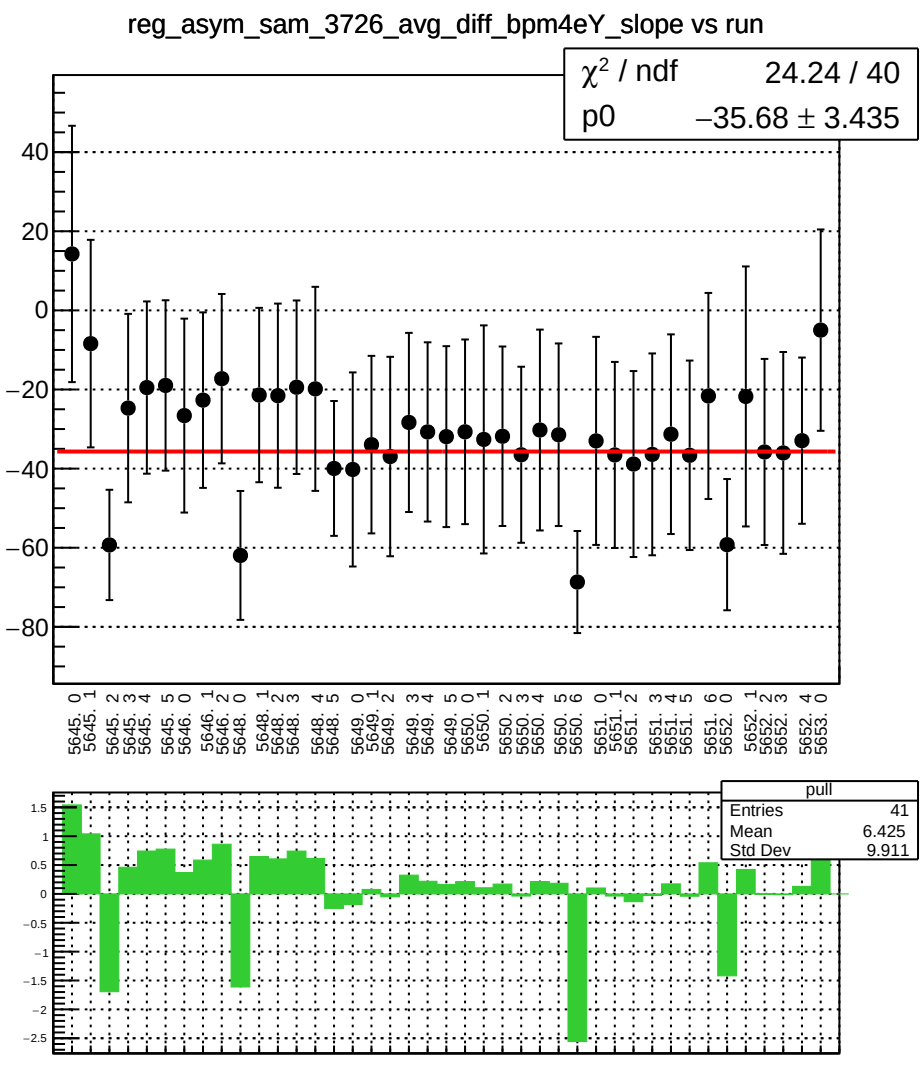

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 4.011 / 40
p0 −11.1 ± 3.32
20
0
−20
−40
−60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 111.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.01632
Std Dev 0.3123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

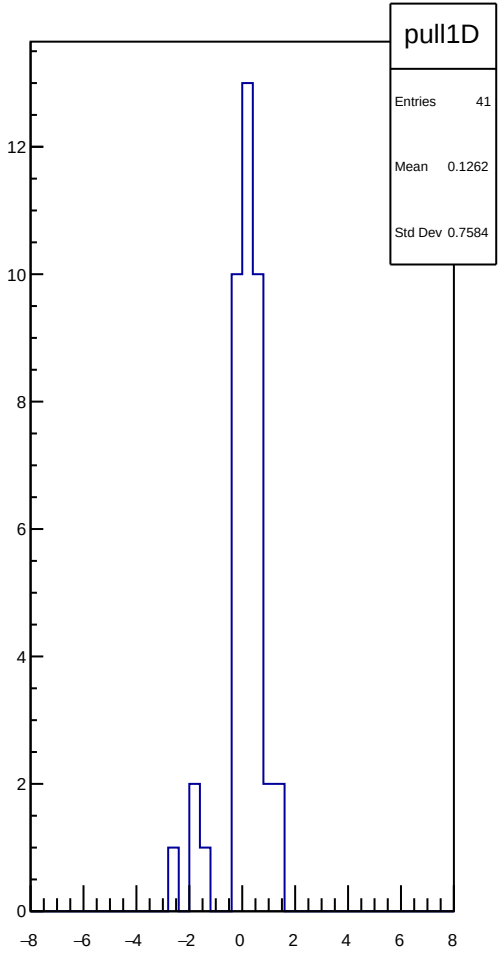

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.28 / 40
p0 −18.88 ± 2.729
pull
Entries 41
Mean 18.9
Std Dev 15.97

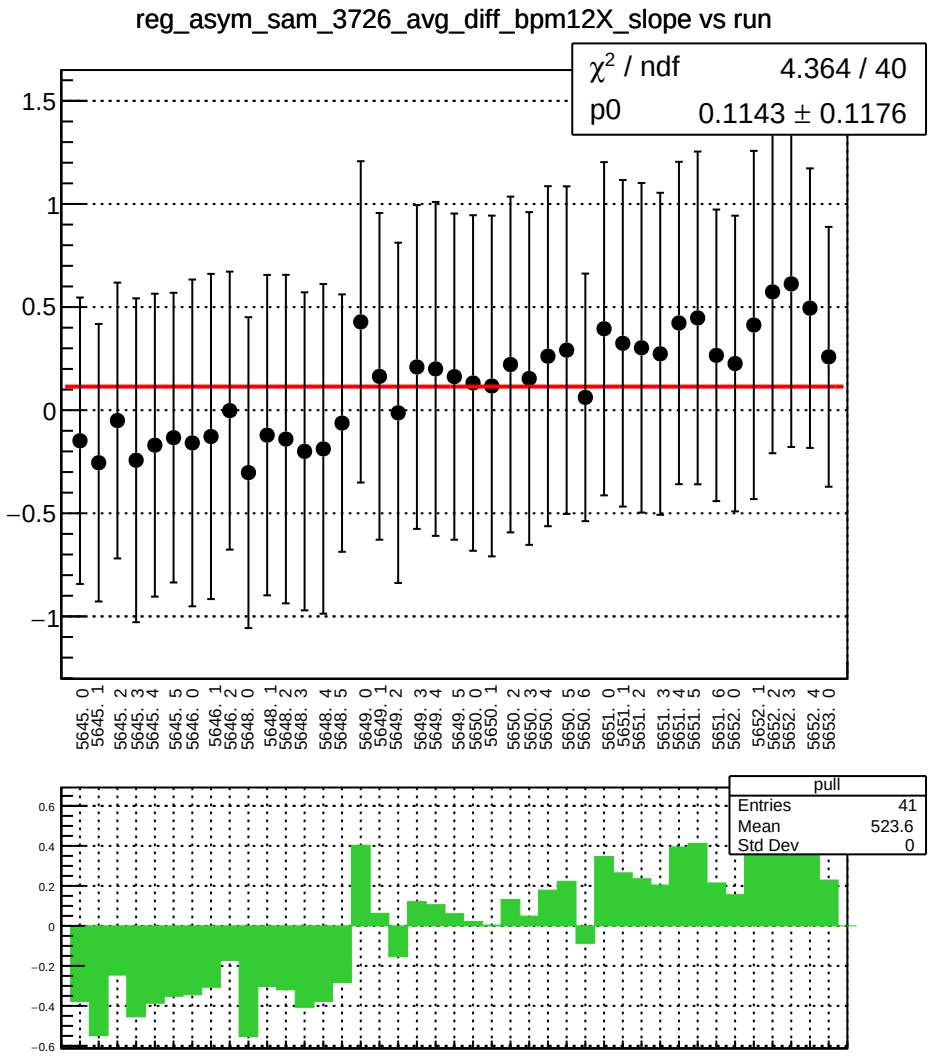

pull1D
Entries 41
Mean −0.1498
Std Dev 0.8019

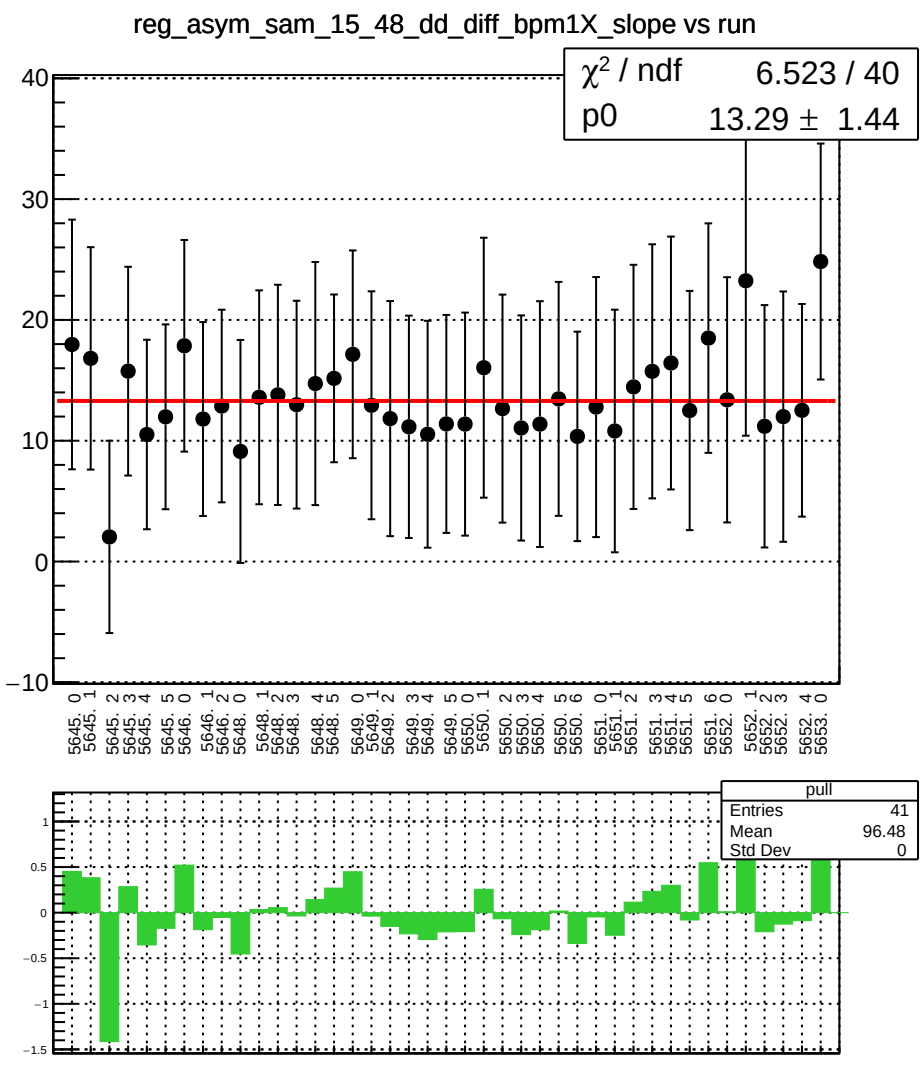

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.122 / 40
p0 −98.44 ± 2.867
pull
Entries 41
Mean −23.32
Std Dev 0

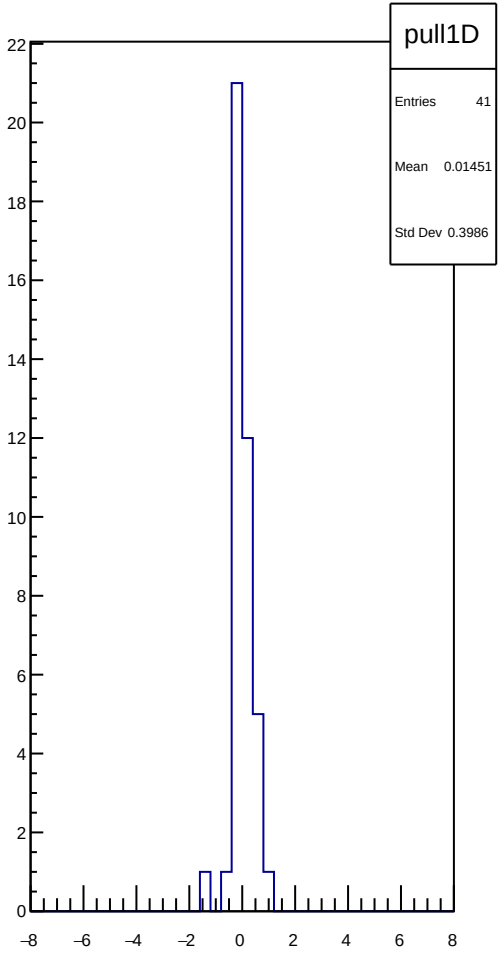

pull1D
Entries 41
Mean 0.0104
Std Dev 0.2757

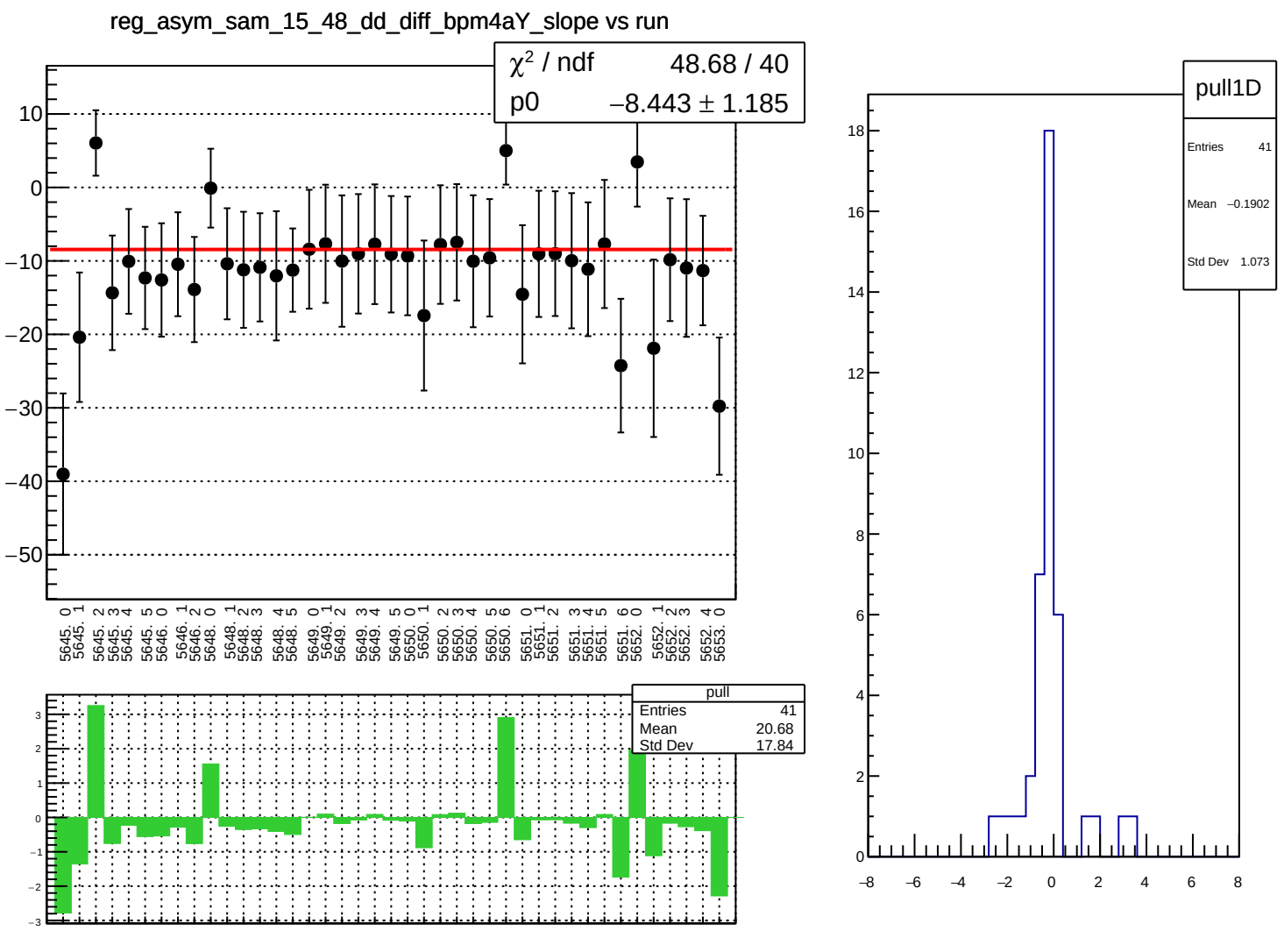

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.24 / 40
p0 −35.68 ± 3.435
pull
Entries 41
Mean 6.425
Std Dev 9.911

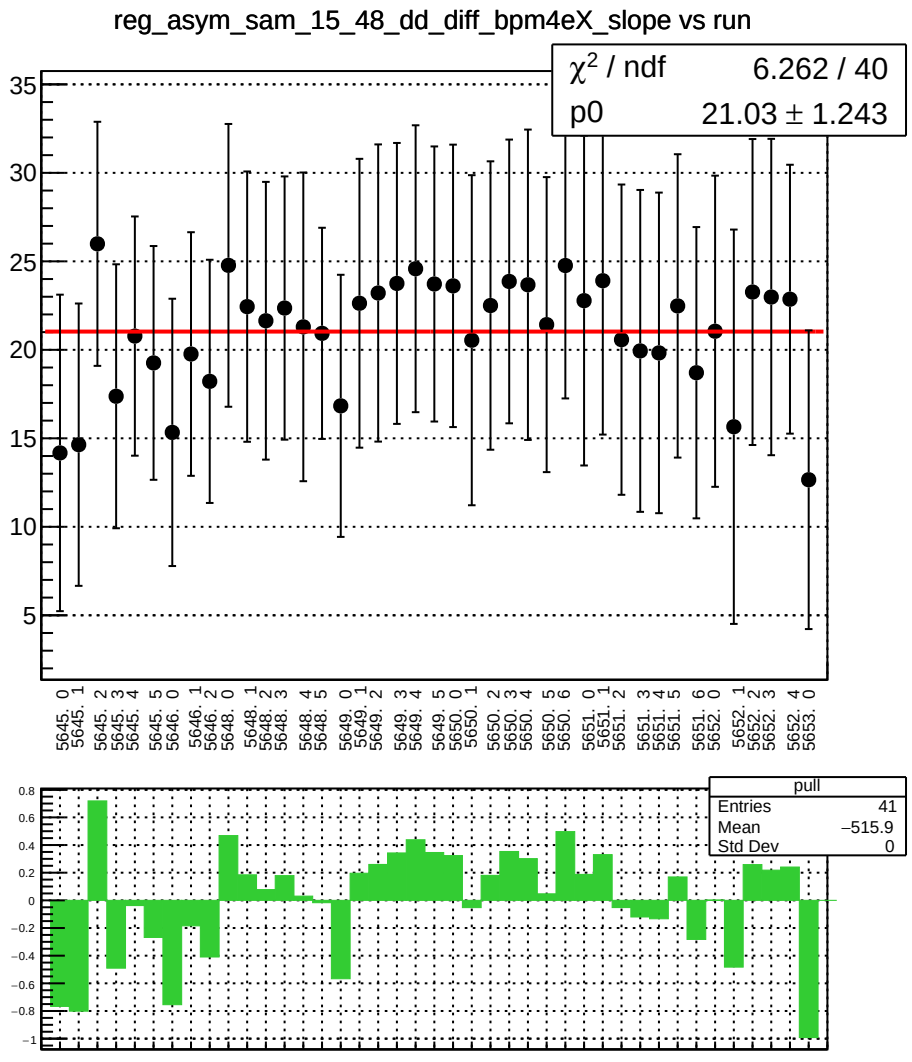

pull1D
Entries 41
Mean 0.1262
Std Dev 0.7584

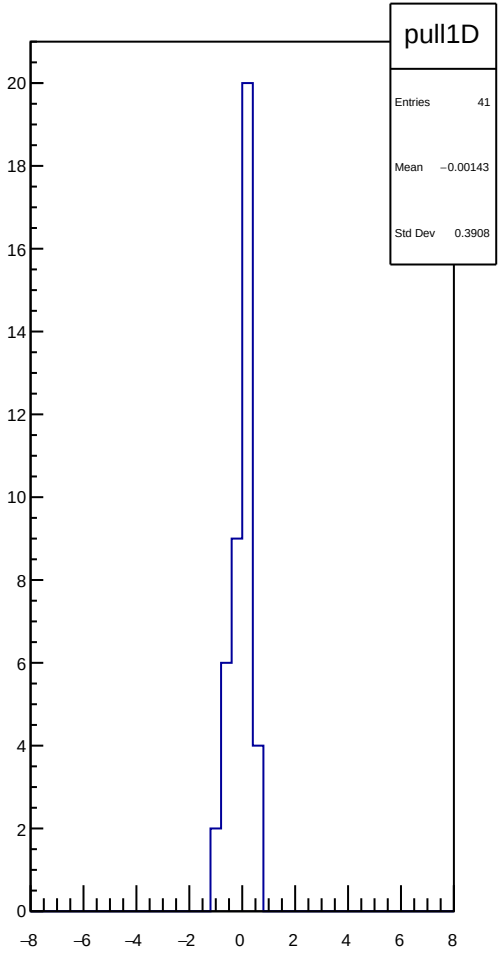

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.364 / 40
p0 0.1143 ± 0.1176
pull
Entries 41
Mean 523.6
Std Dev 0
pull1D
Entries 41
Mean 0.00677
Std Dev 0.3262

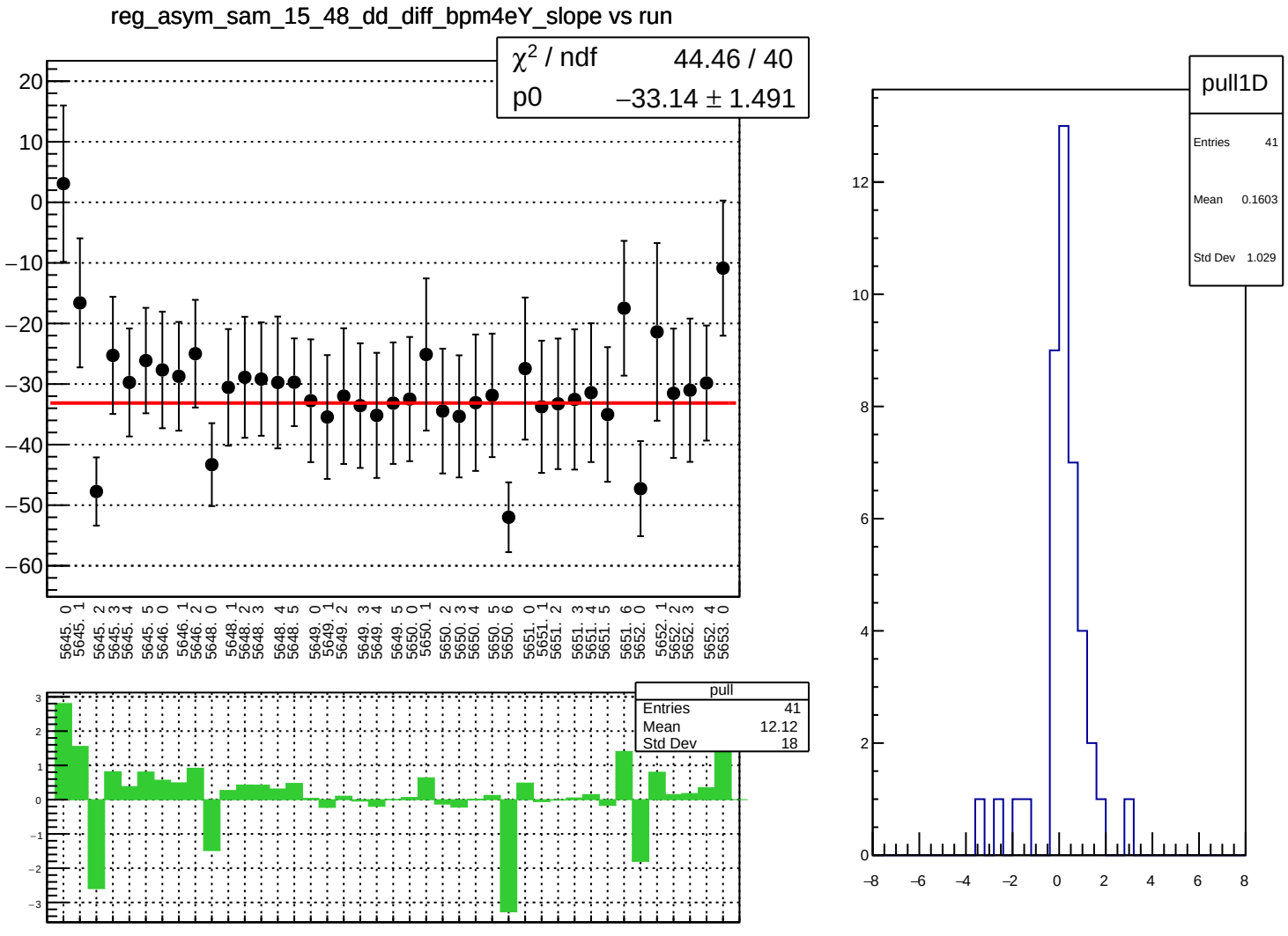

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.523 / 40
p0 13.29 ± 1.44
pull
Entries 41
Mean 96.48
Std Dev 0

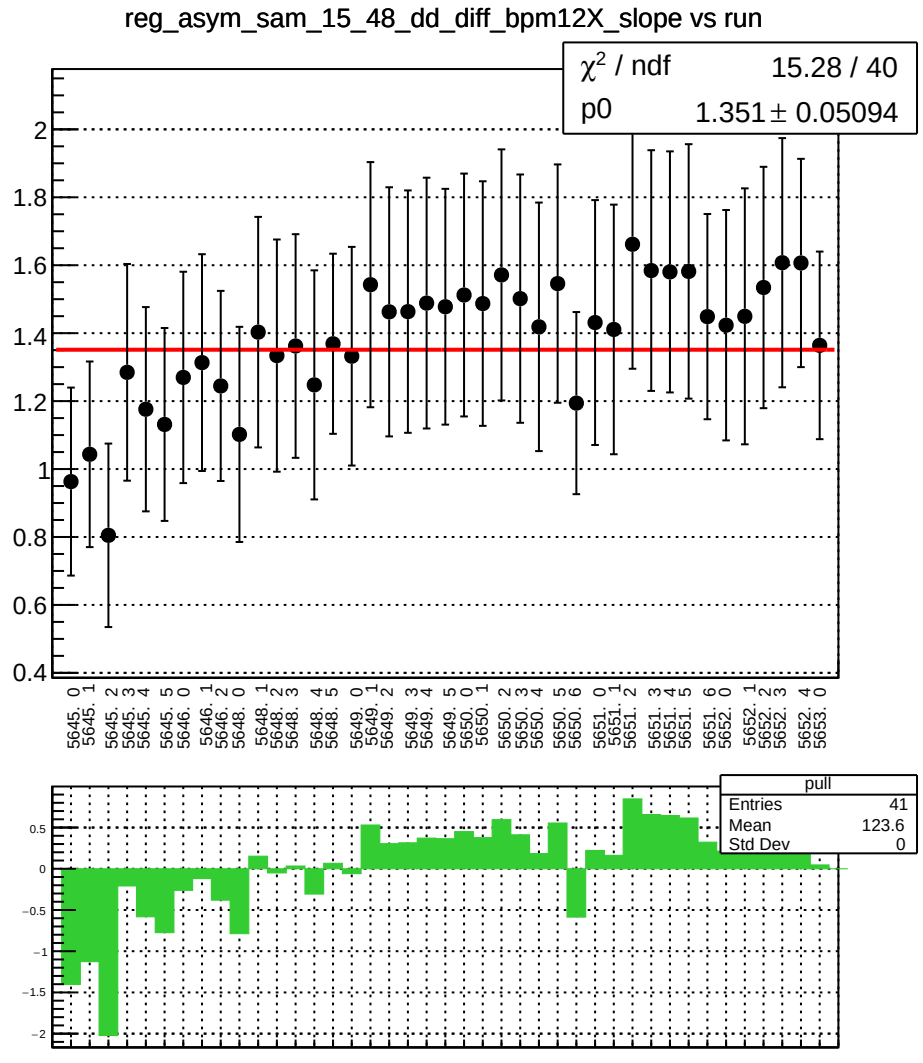

pull1D
Entries 41
Mean 0.01451
Std Dev 0.3986

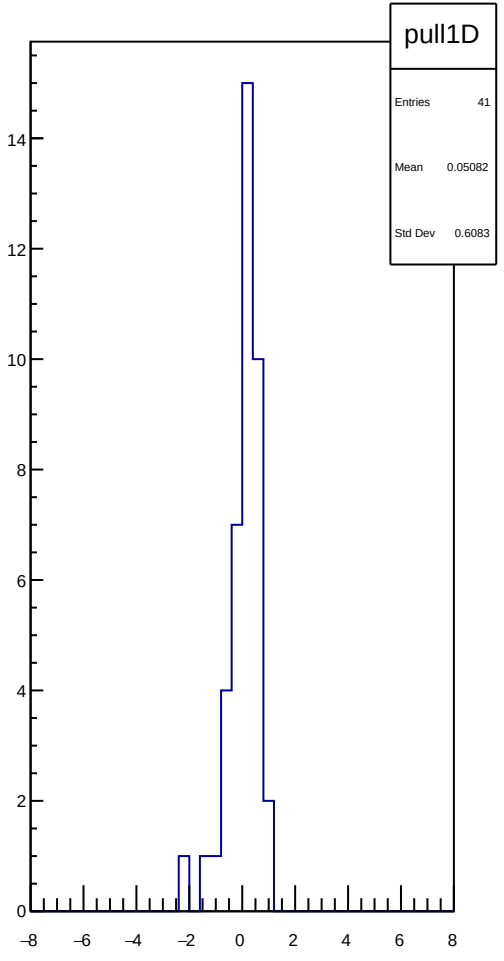

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.68 / 40
p0 −8.443 ± 1.185
pull
Entries 41
Mean 20.68
Std Dev 17.84
pull1D
Entries 41
Mean −0.1902
Std Dev 1.073

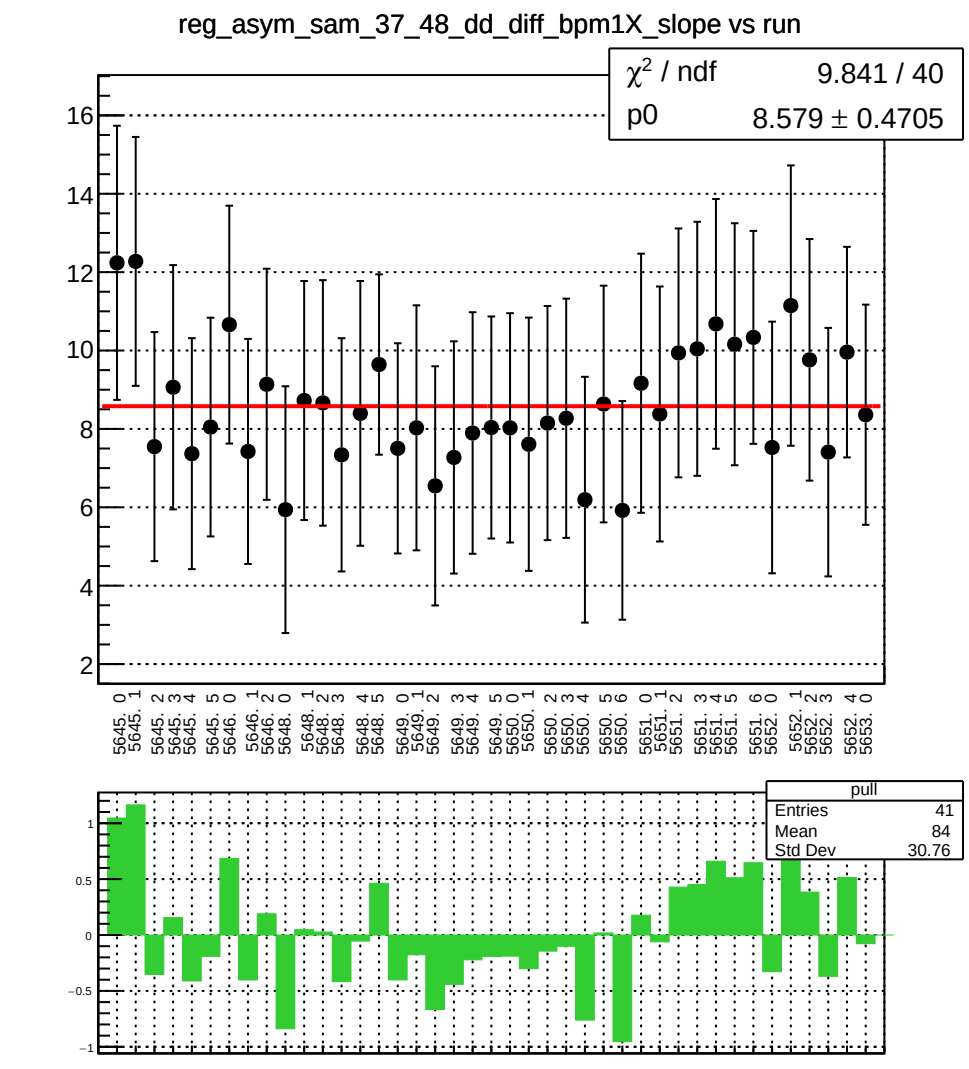

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.262 / 40
p0 21.03 ± 1.243
pull
Entries 41
Mean −515.9
Std Dev 0

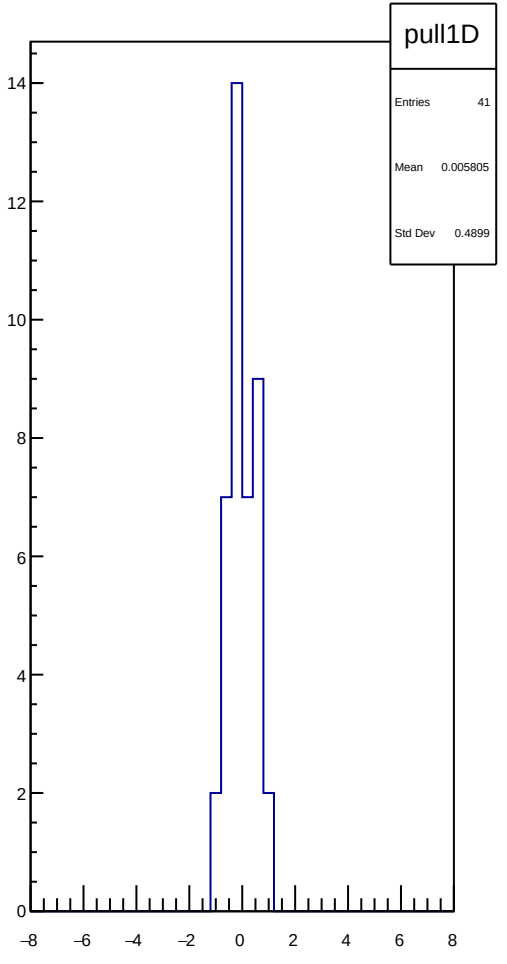

pull1D
Entries 41
Mean −0.00143
Std Dev 0.3908

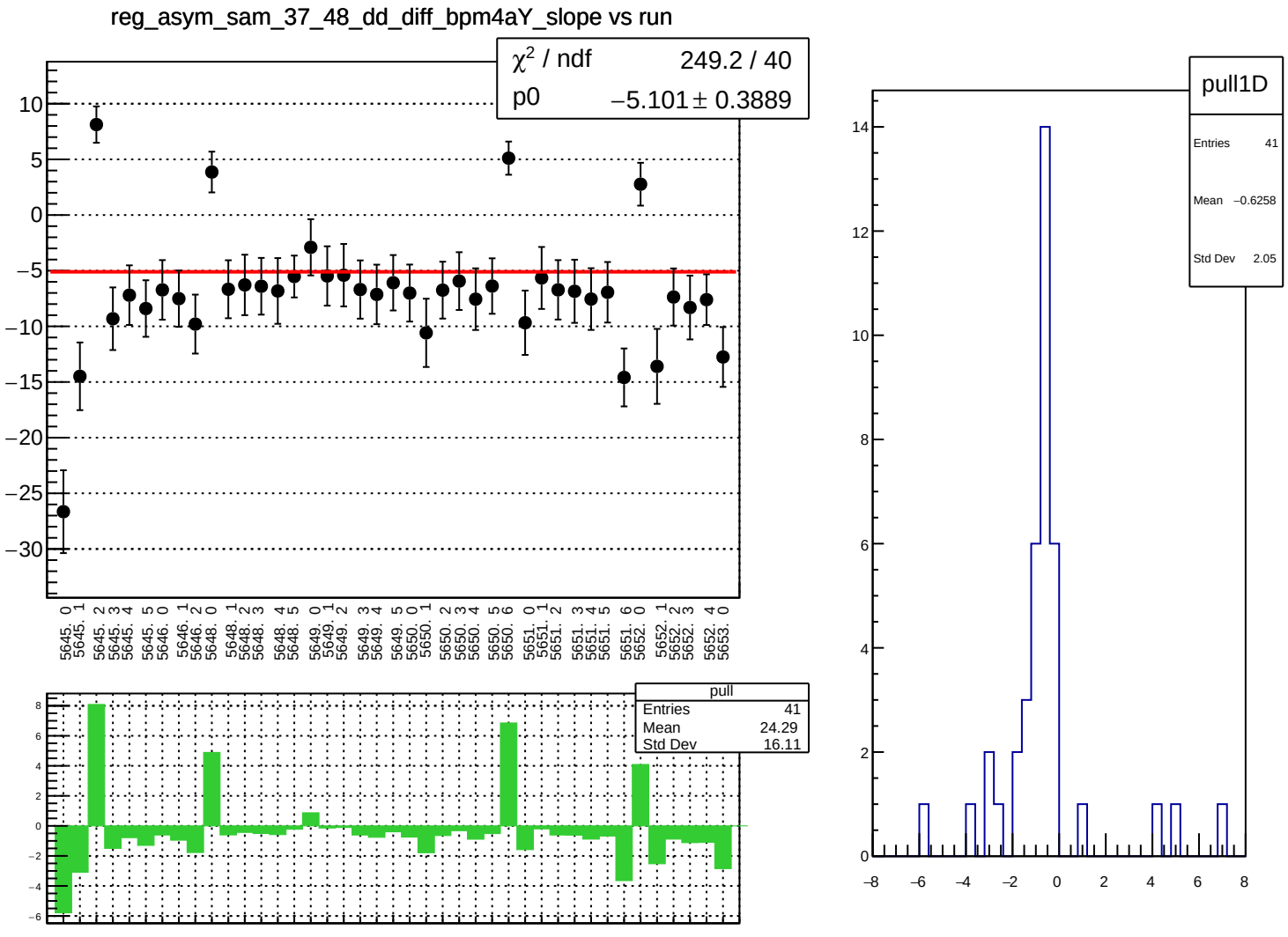

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.46 / 40
p0 −33.14 ± 1.491
pull
Entries 41
Mean 12.12
Std Dev 18
pull1D
Entries 41
Mean 0.1603
Std Dev 1.029

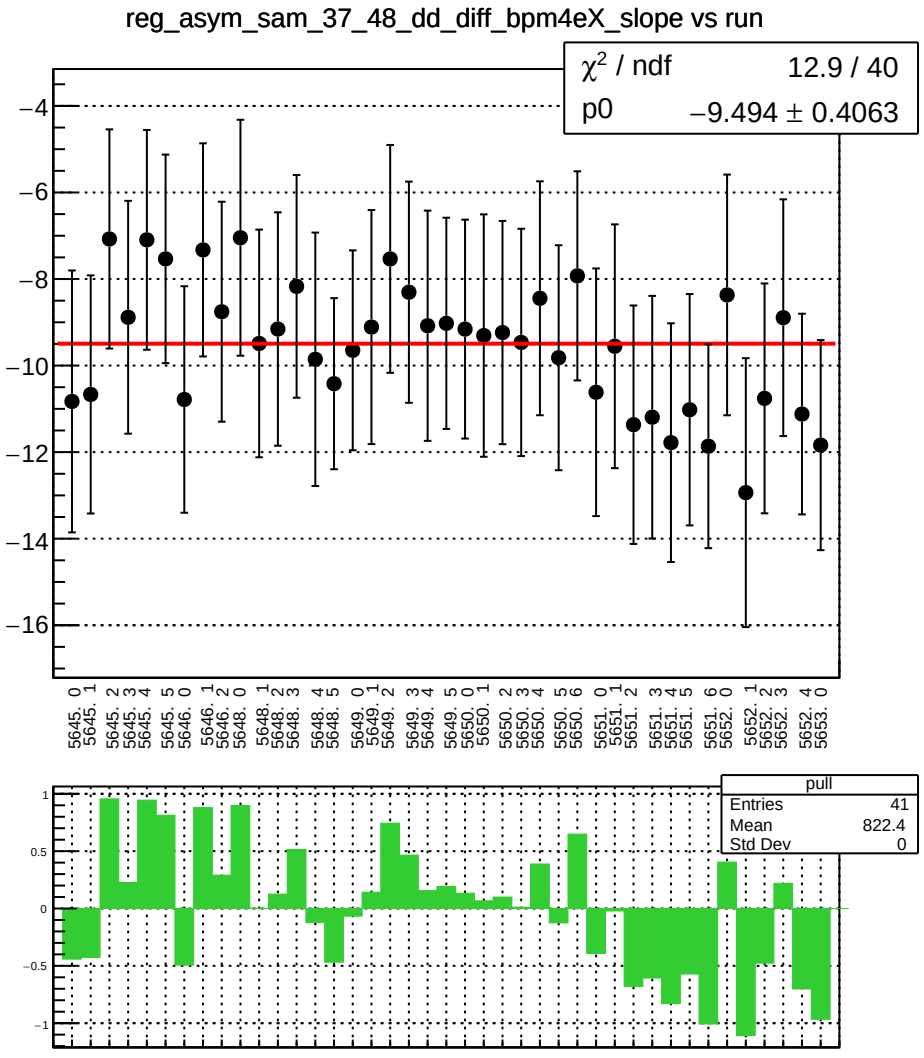

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.28 / 40
p0 1.351 ± 0.05094
pull
Entries 41
Mean 123.6
Std Dev 0

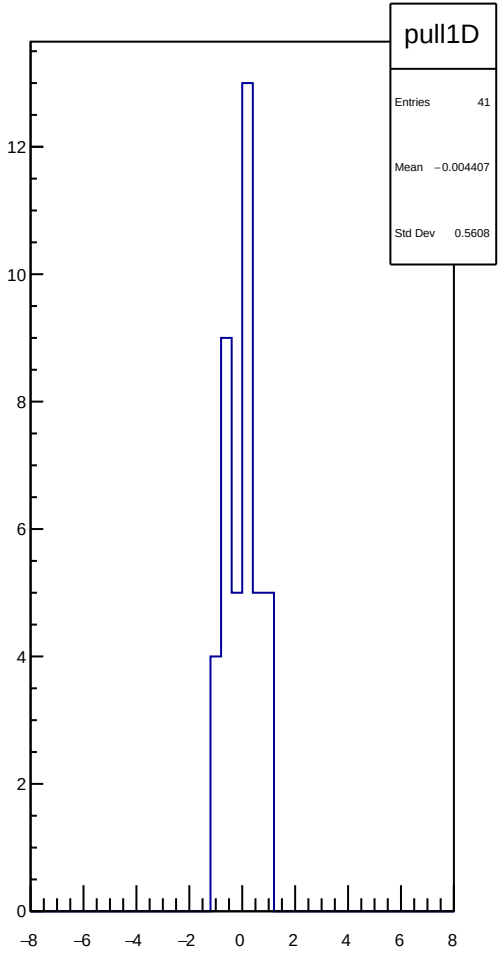

pull1D
Entries 41
Mean 0.05082
Std Dev 0.6083

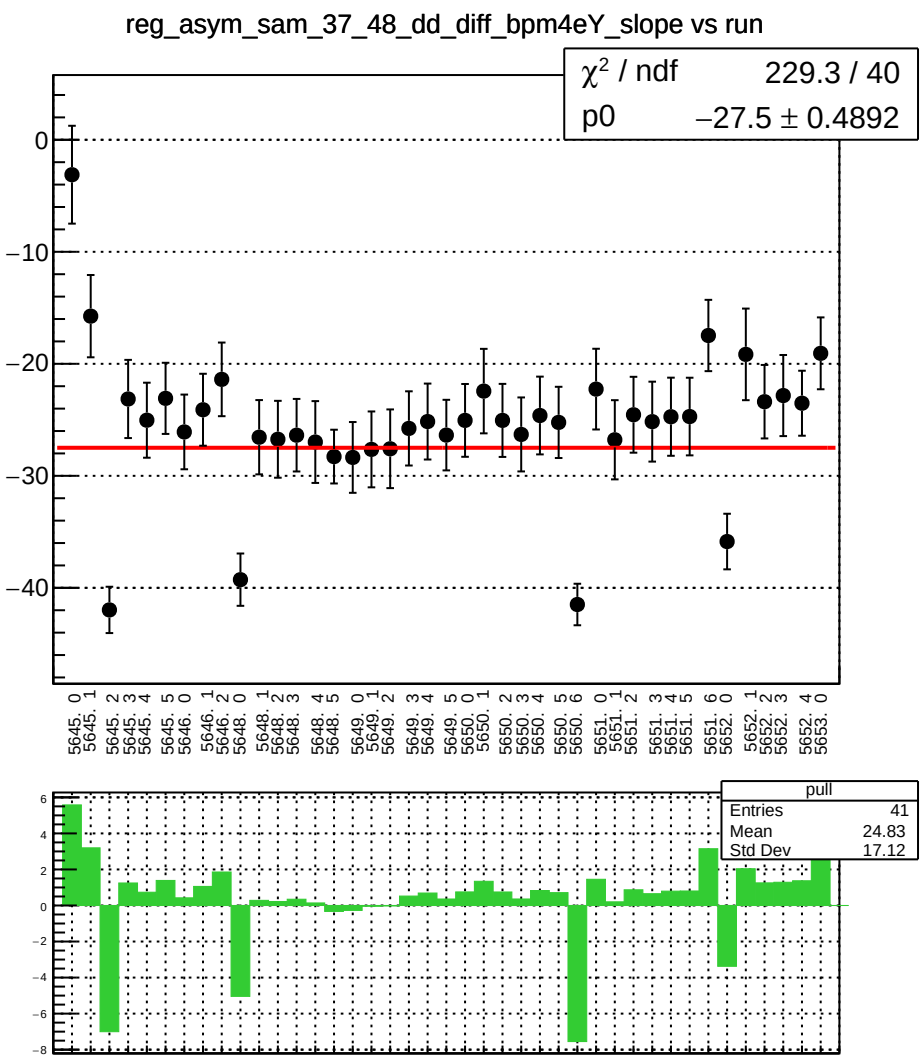

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.841 / 40
p0 8.579 ± 0.4705
pull
Entries 41
Mean 84
Std Dev 30.76

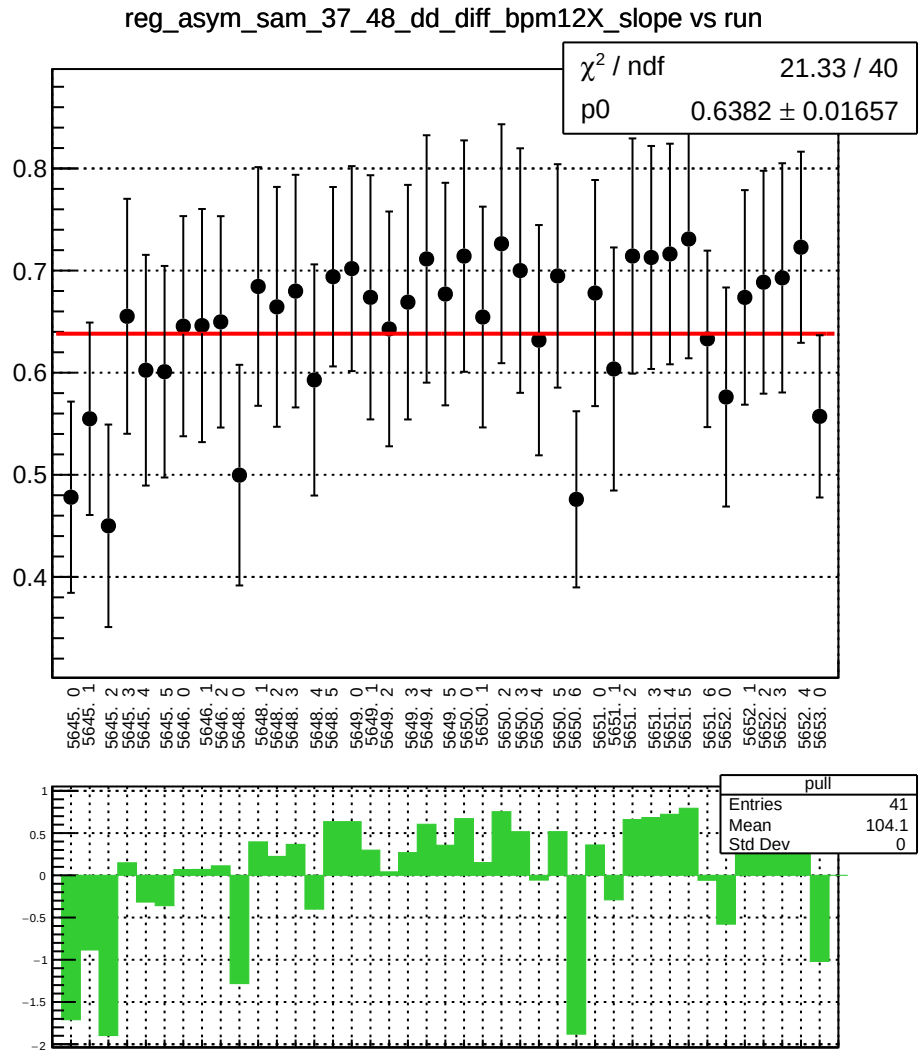

pull1D
Entries 41
Mean 0.005805
Std Dev 0.4899

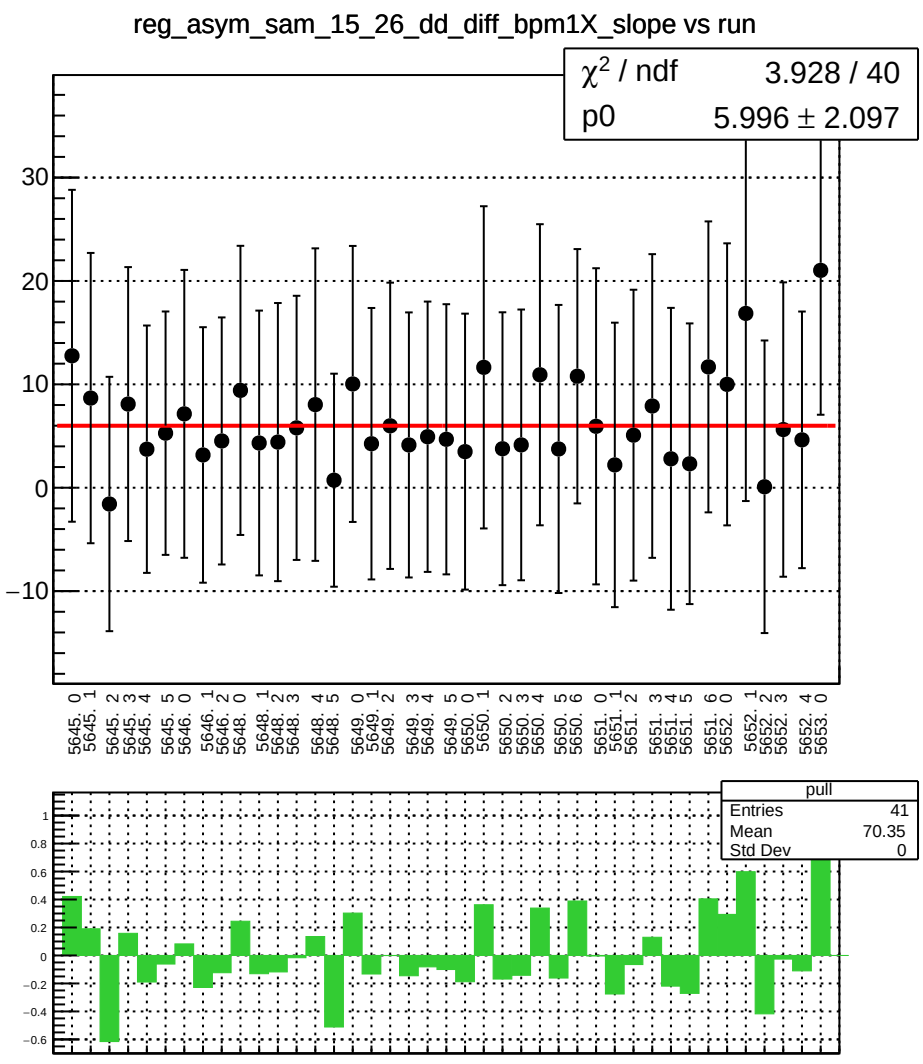

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 249.2 / 40
p0 −5.101 ± 0.3889
pull
Entries 41
Mean 24.29
Std Dev 16.11
pull1D
Entries 41
Mean −0.6258
Std Dev 2.05

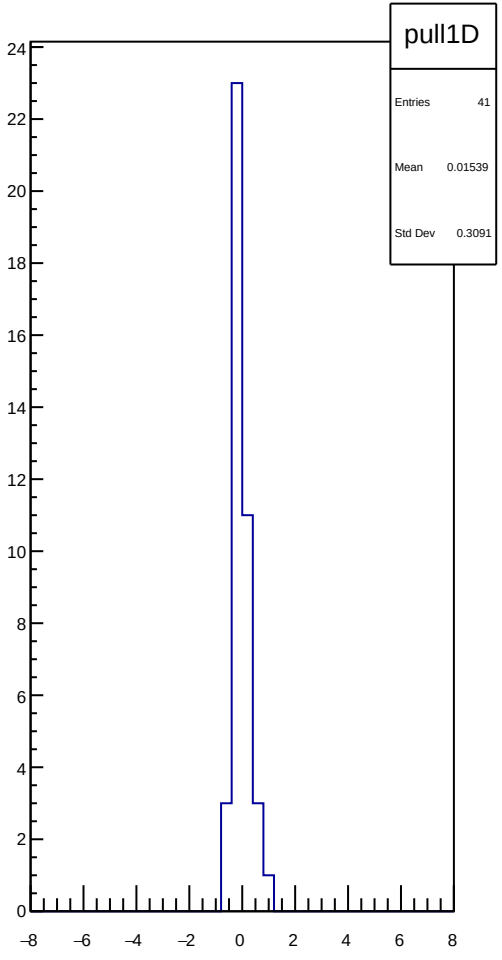

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.9 / 40
p0 −9.494 ± 0.4063
pull
Entries 41
Mean 822.4
Std Dev 0

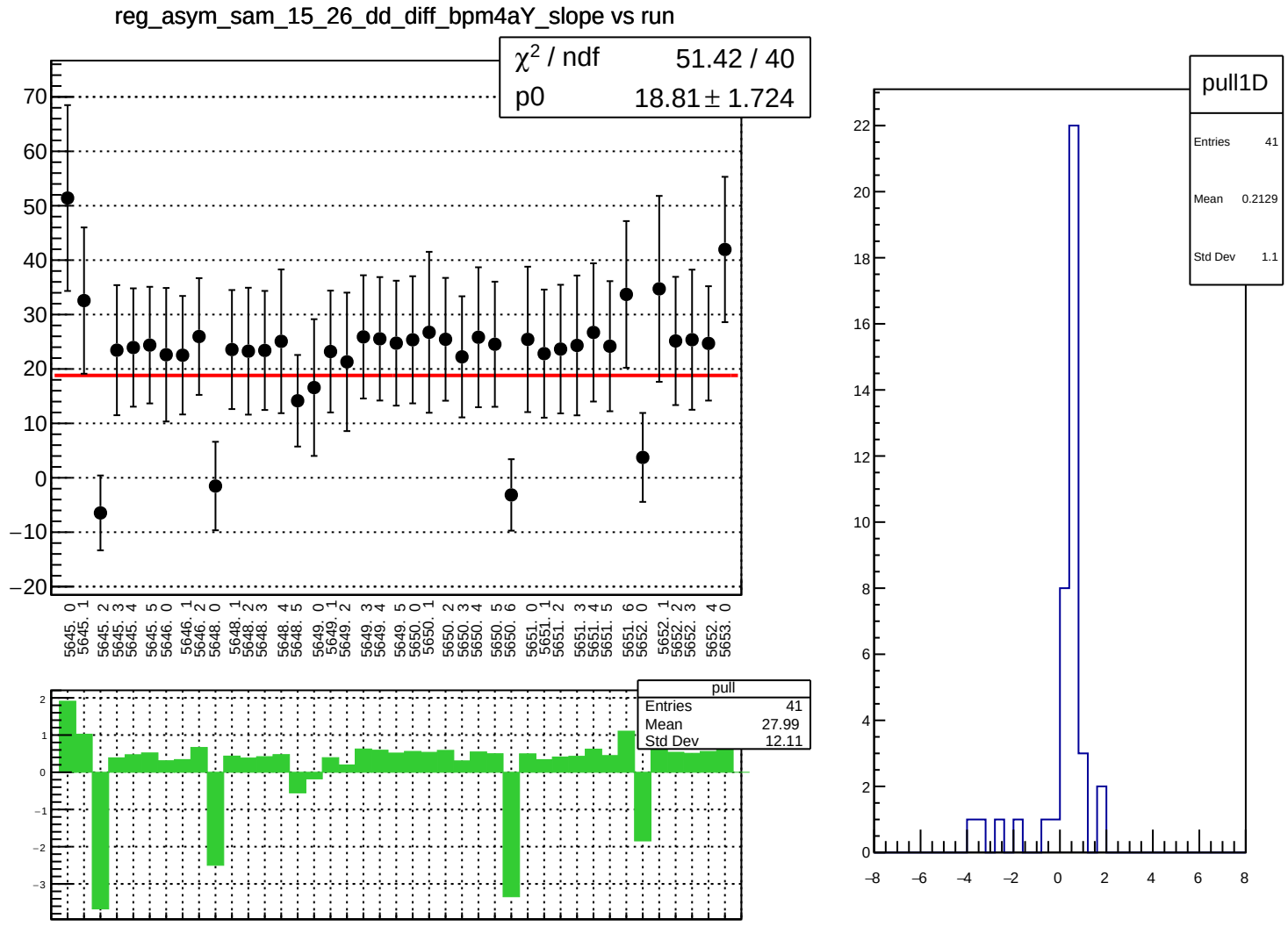

pull1D
Entries 41
Mean −0.004407
Std Dev 0.5608

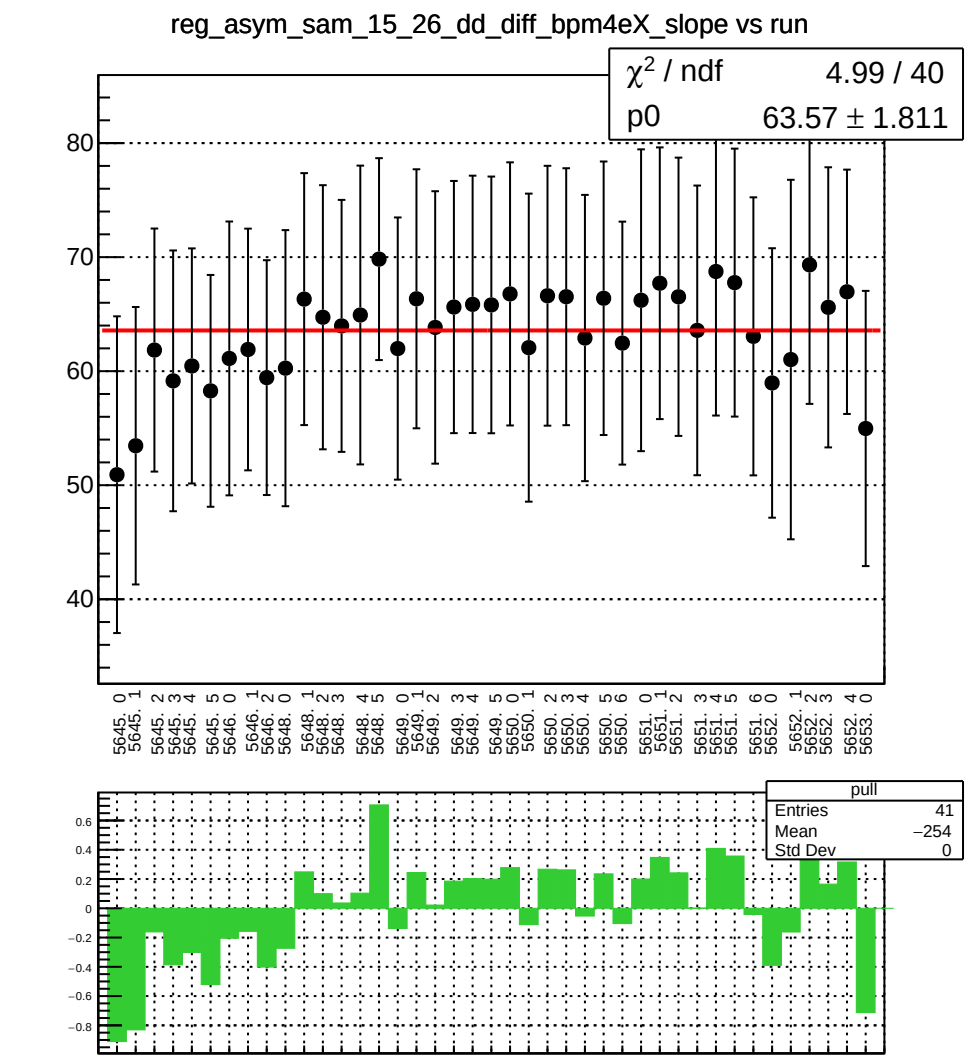

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 229.3 / 40
p0 −27.5 ± 0.4892
0
−10
−20
−30
−40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.83
Std Dev 17.12
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 41
Mean 0.3822
Std Dev 2.334
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

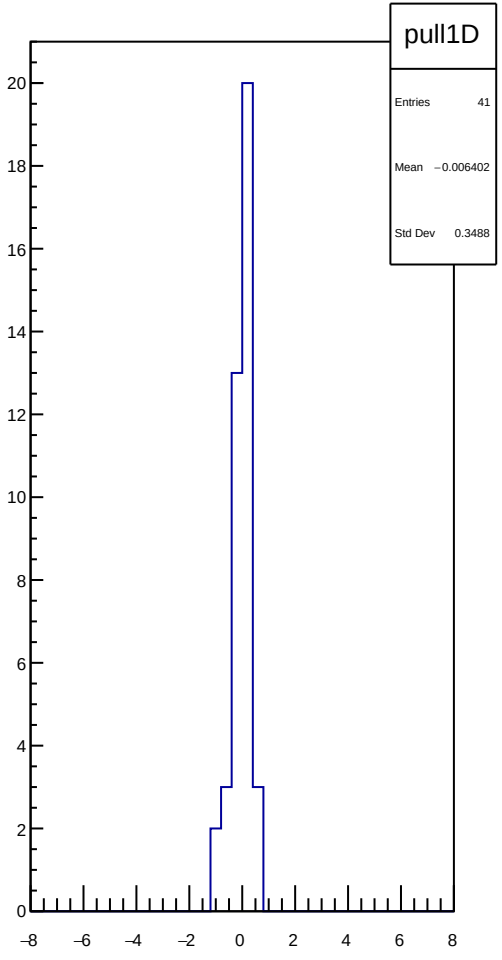

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.33 / 40
p0 0.6382 ± 0.01657
0.8
0.7
0.6
0.5
0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 104.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean 0.0368
Std Dev 0.7203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

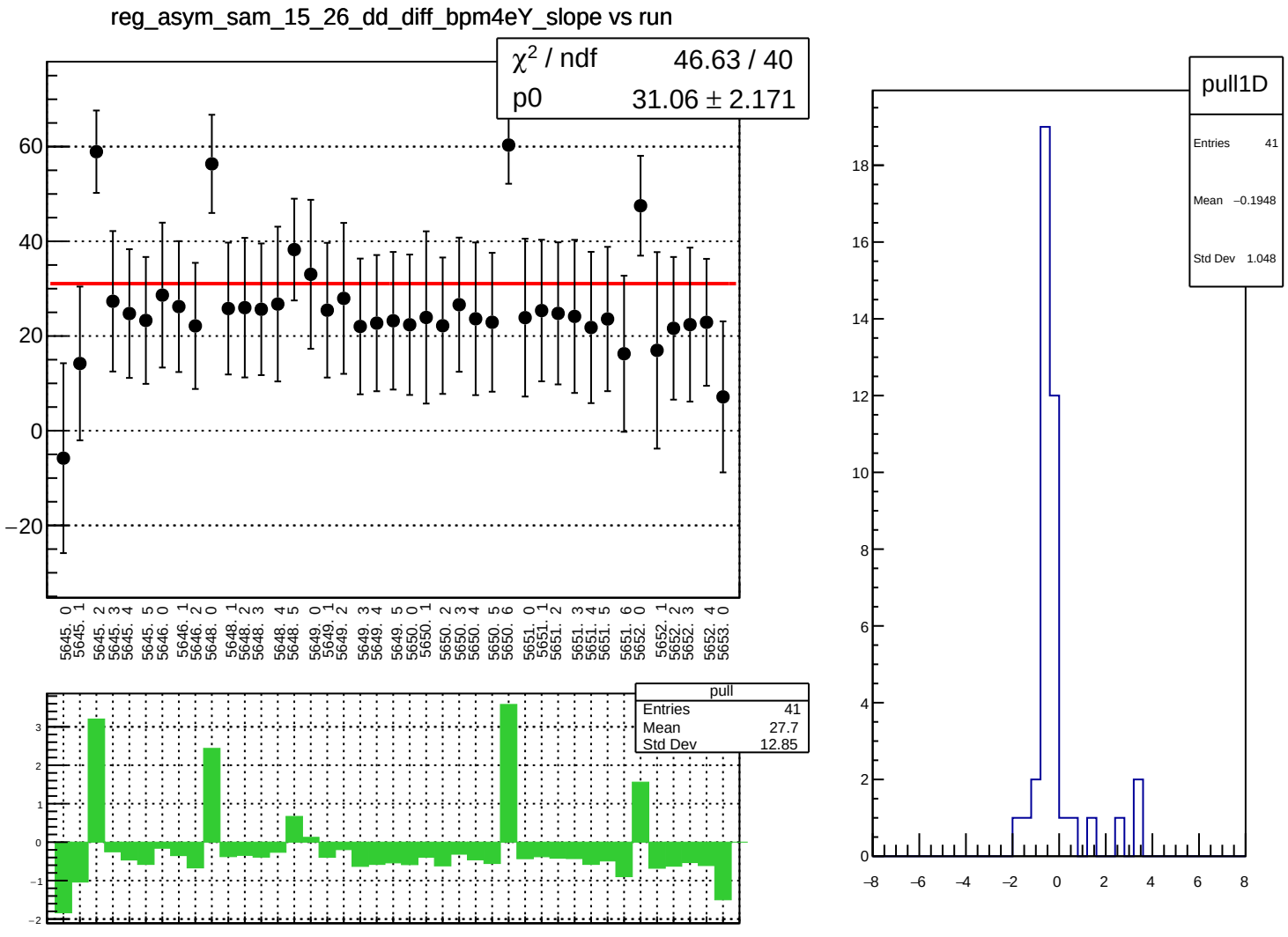

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.928 / 40
p0 5.996 ± 2.097
pull
Entries 41
Mean 70.35
Std Dev 0

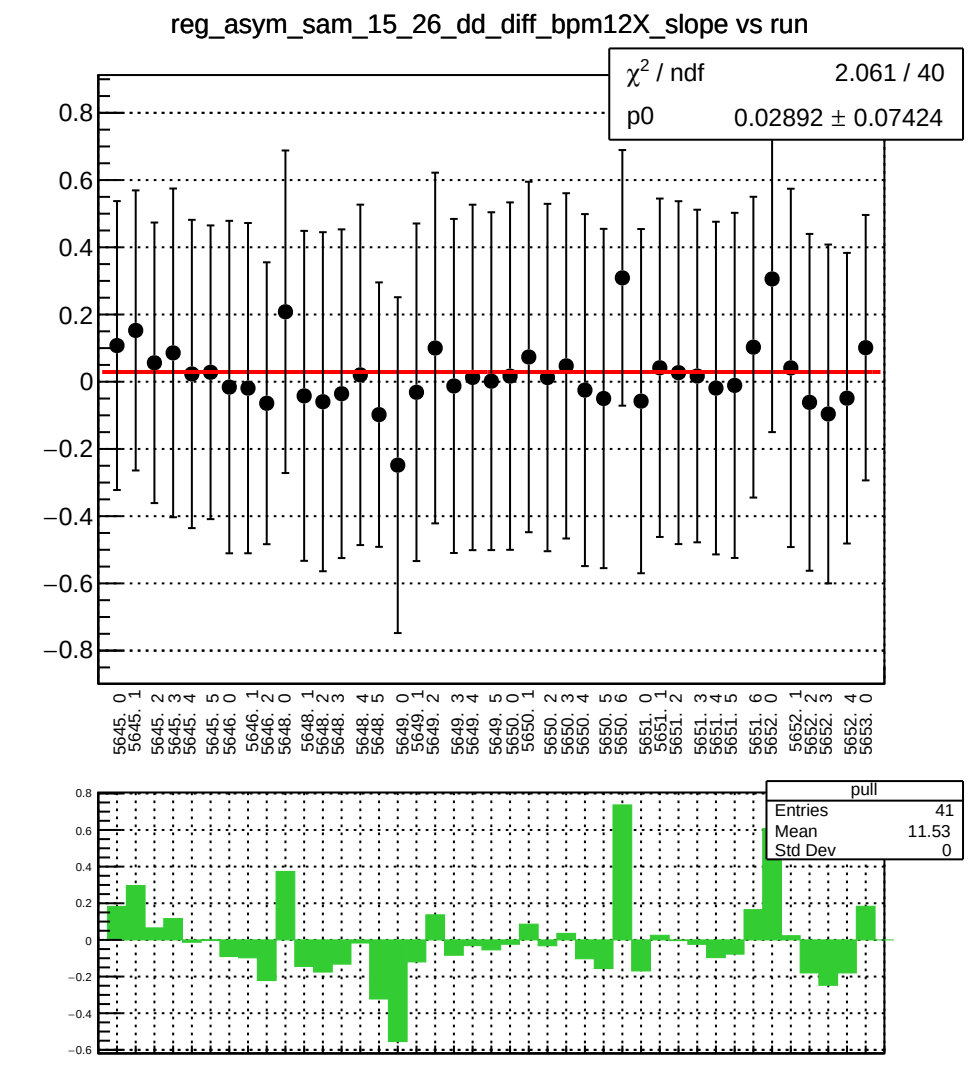

pull1D
Entries 41
Mean 0.01539
Std Dev 0.3091

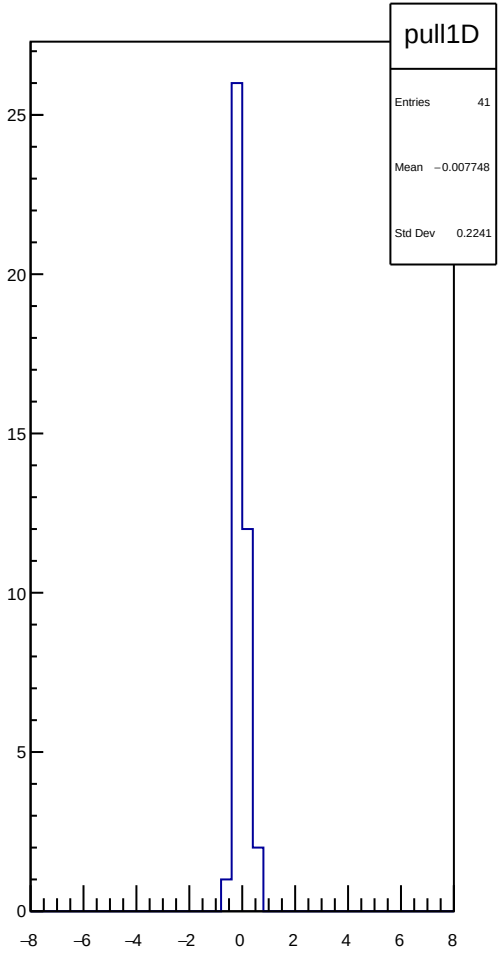

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 51.42 / 40
p0 18.81 ± 1.724
pull
Entries 41
Mean 27.99
Std Dev 12.11
pull1D
Entries 41
Mean 0.2129
Std Dev 1.1

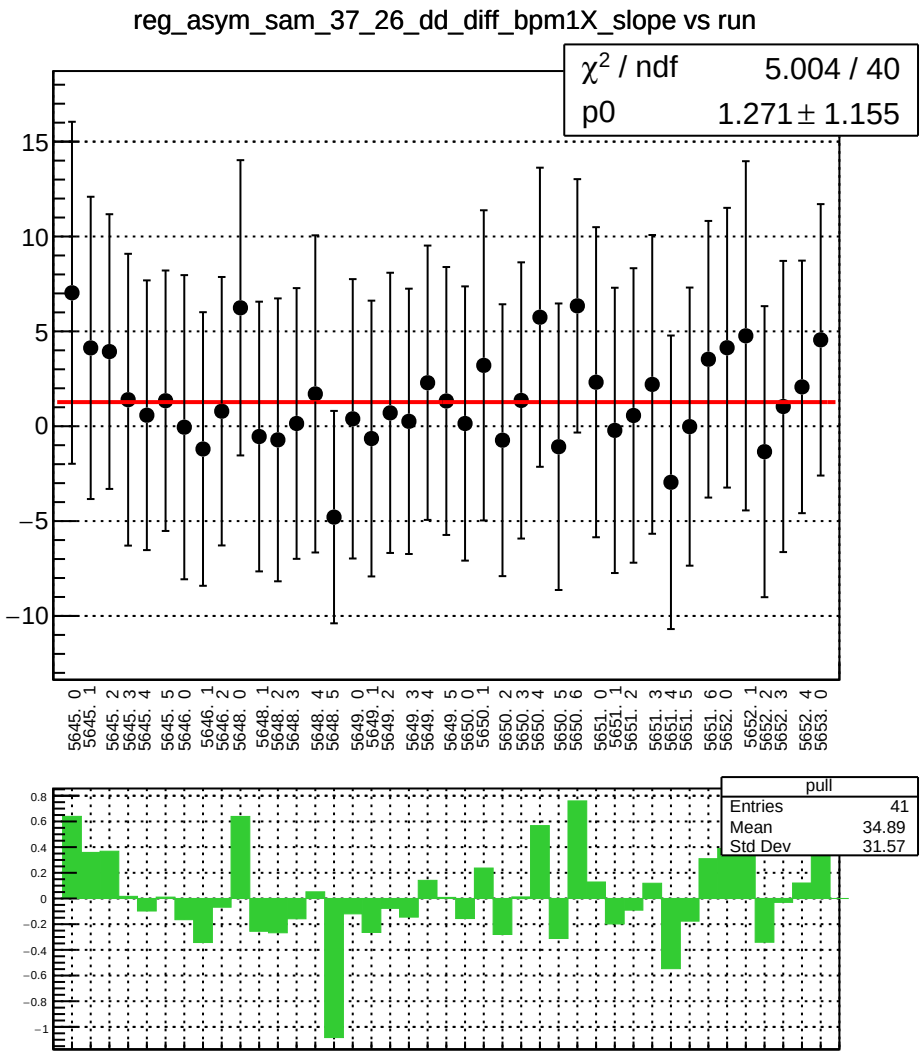

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.99 / 40
p0 63.57 ± 1.811
pull
Entries 41
Mean −254
Std Dev 0

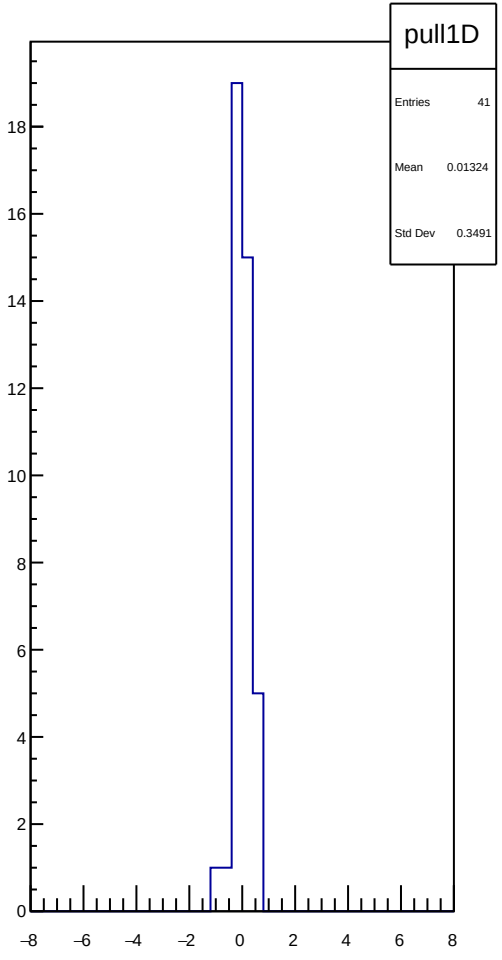

pull1D
Entries 41
Mean −0.006402
Std Dev 0.3488

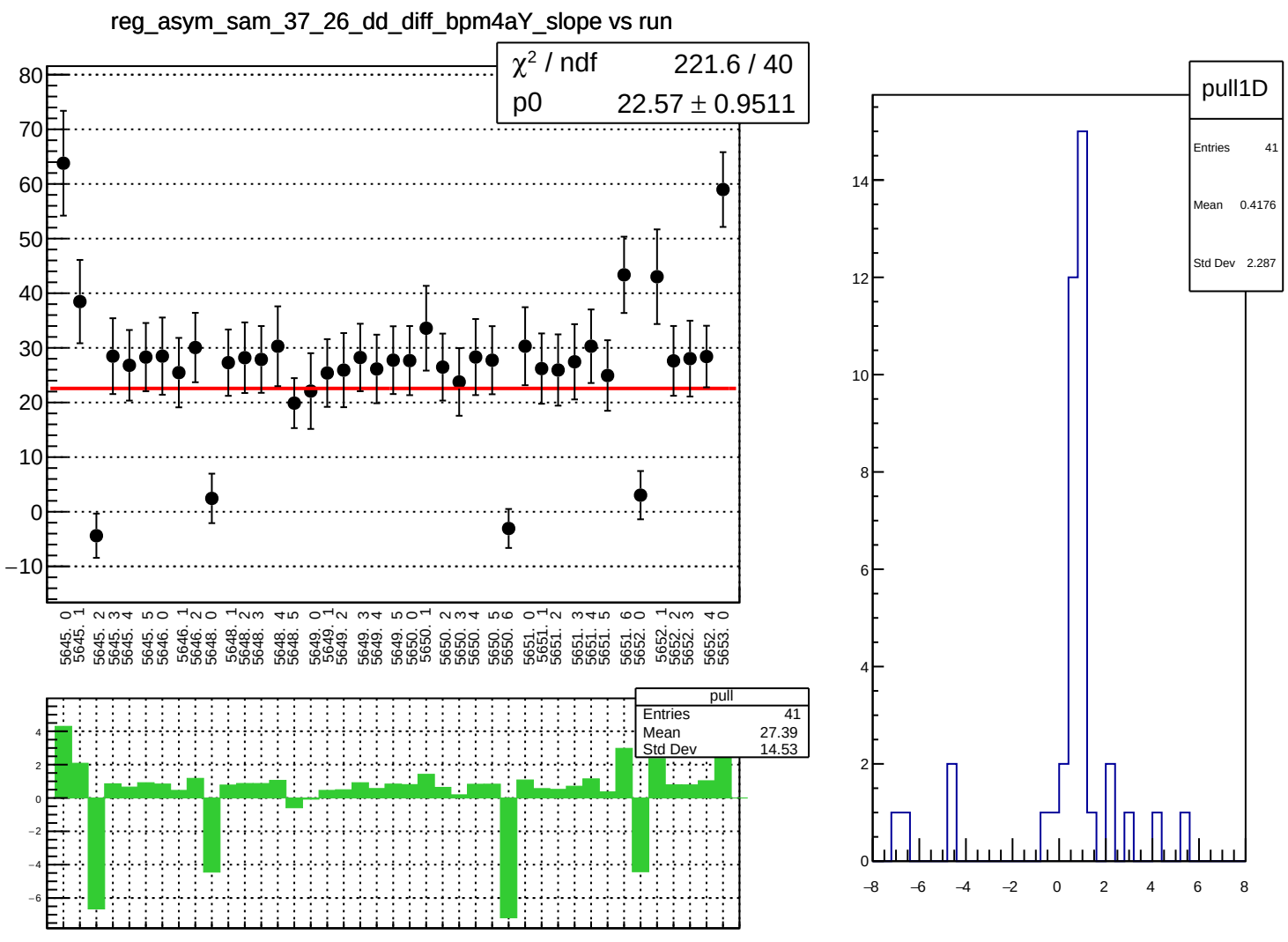

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.63 / 40
p0 31.06 ± 2.171
pull
Entries 41
Mean 27.7
Std Dev 12.85
pull1D
Entries 41
Mean −0.1948
Std Dev 1.048

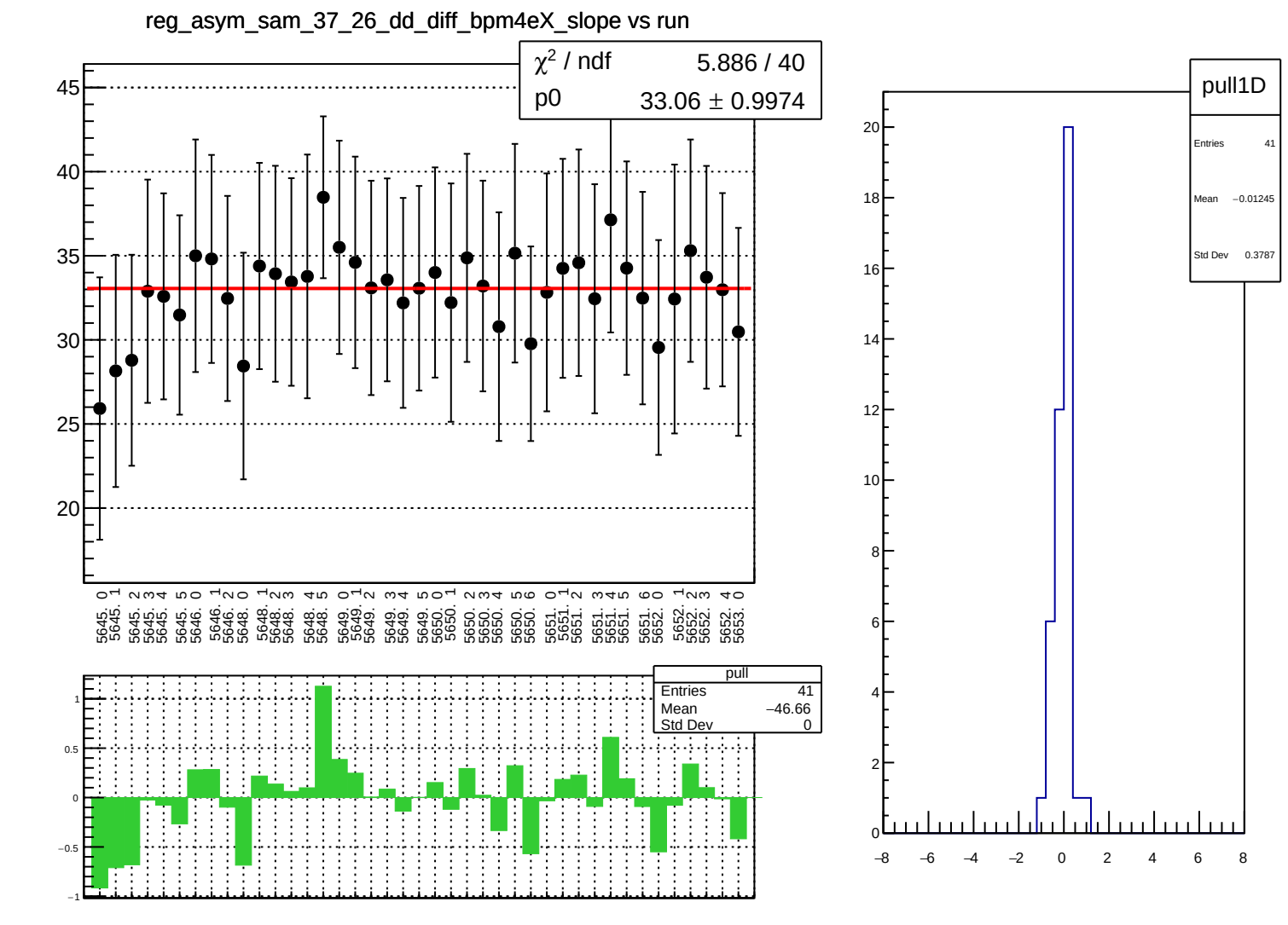

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.061 / 40
p0 0.02892 ± 0.07424
pull
Entries 41
Mean 11.53
Std Dev 0

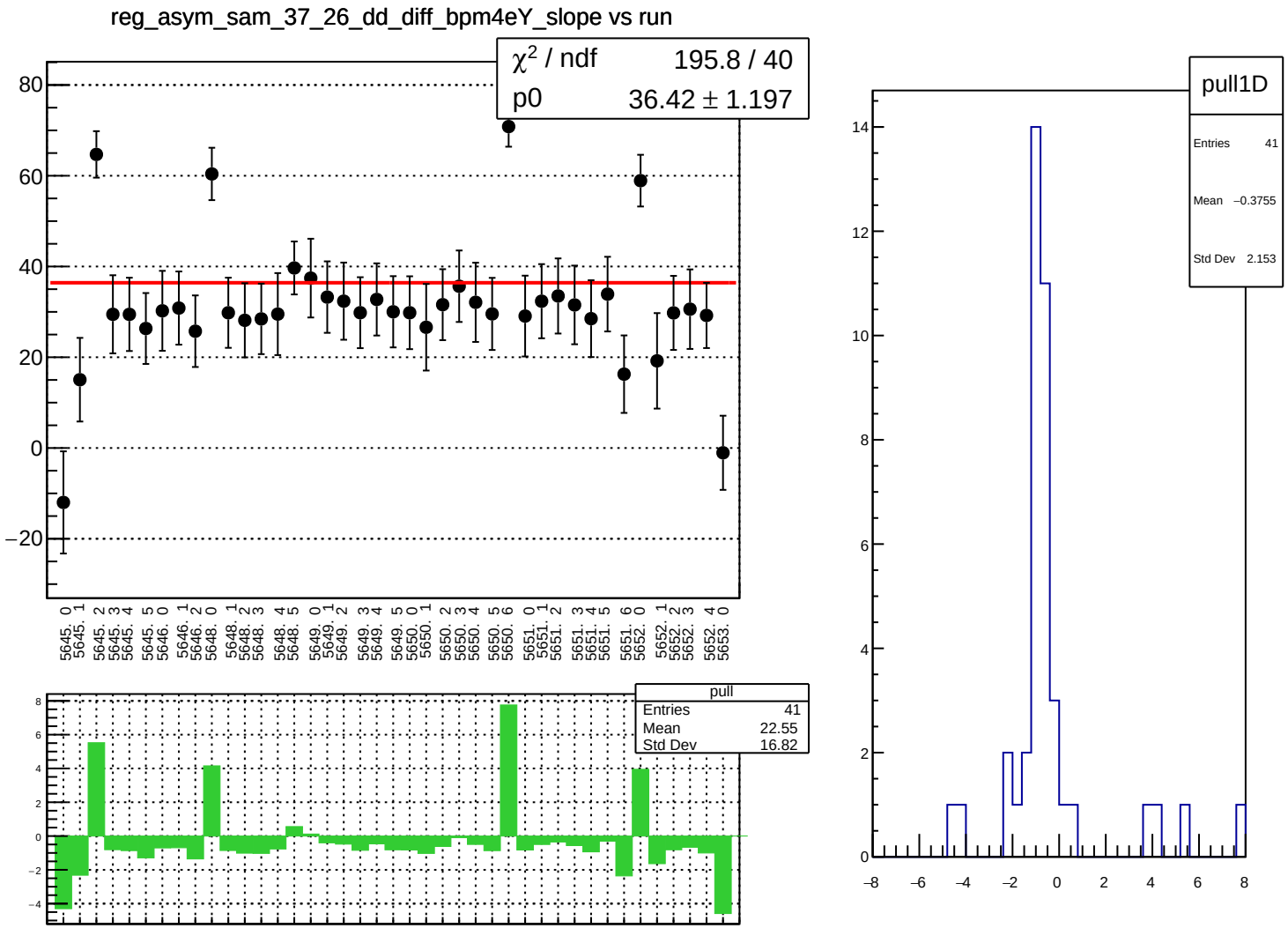

pull1D
Entries 41
Mean −0.007748
Std Dev 0.2241

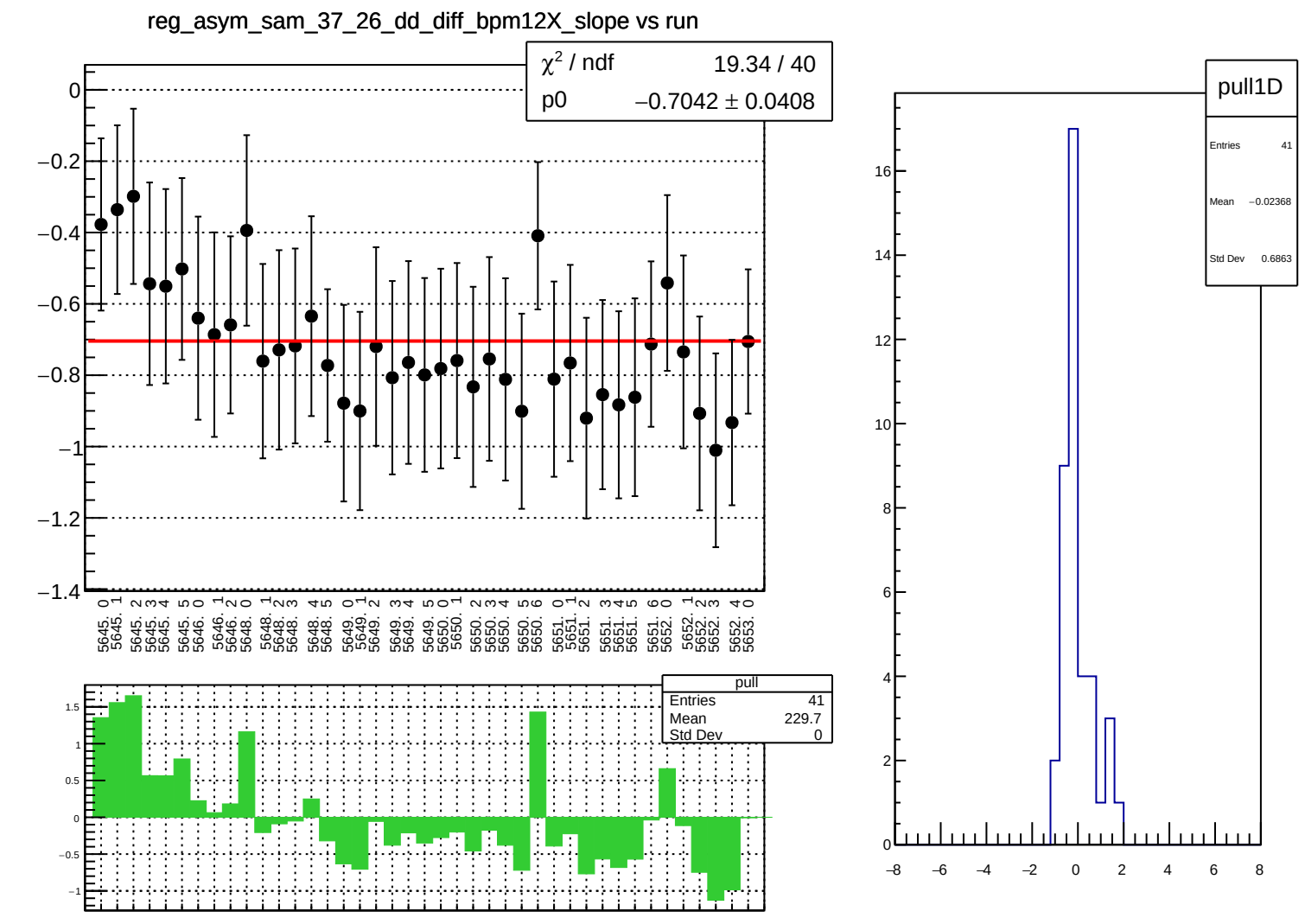

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.004 / 40
p0 1.271 ± 1.155
pull
Entries 41
Mean 34.89
Std Dev 31.57

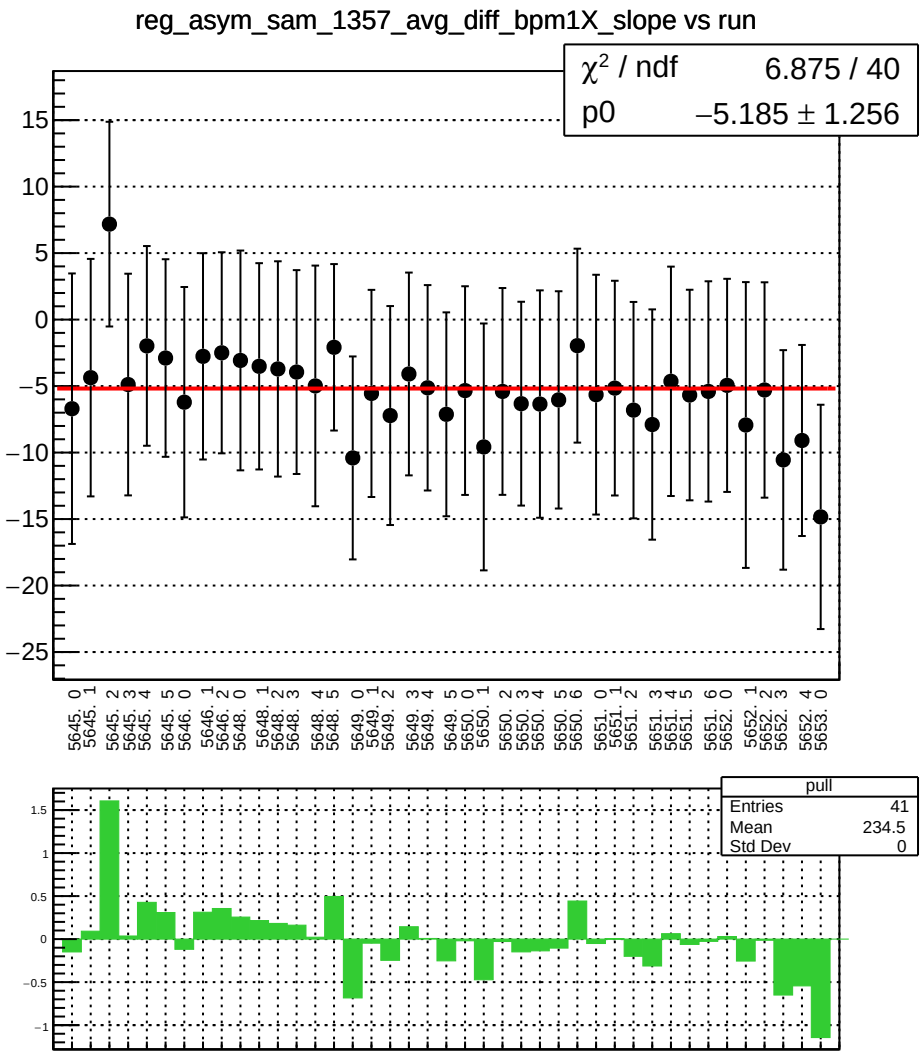

pull1D
Entries 41
Mean 0.01324
Std Dev 0.3491

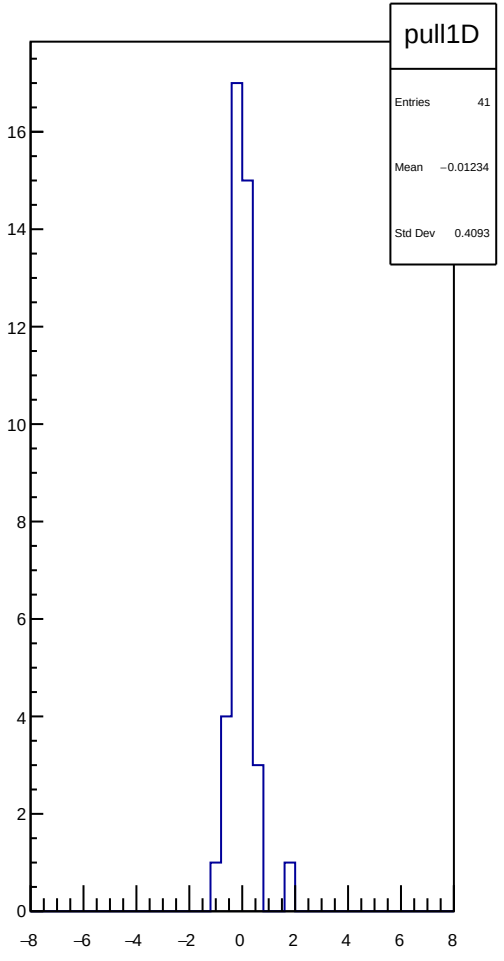

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 221.6 / 40
p0 22.57 ± 0.9511
pull
Entries 41
Mean 27.39
Std Dev 14.53
pull1D
Entries 41
Mean 0.4176
Std Dev 2.287

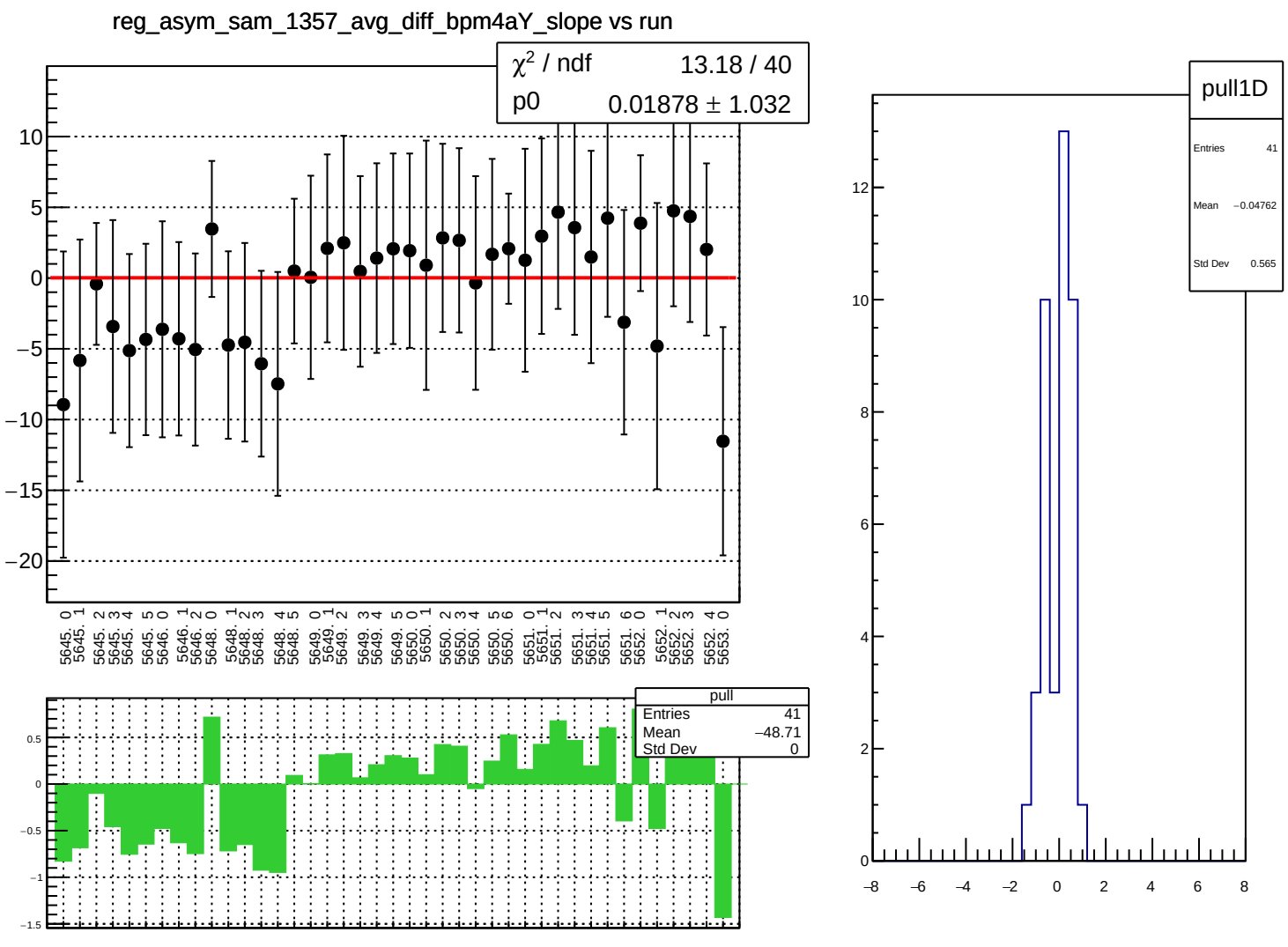

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.886 / 40
p0 33.06 ± 0.9974
pull
Entries 41
Mean −46.66
Std Dev 0
pull1D
Entries 41
Mean −0.01245
Std Dev 0.3787

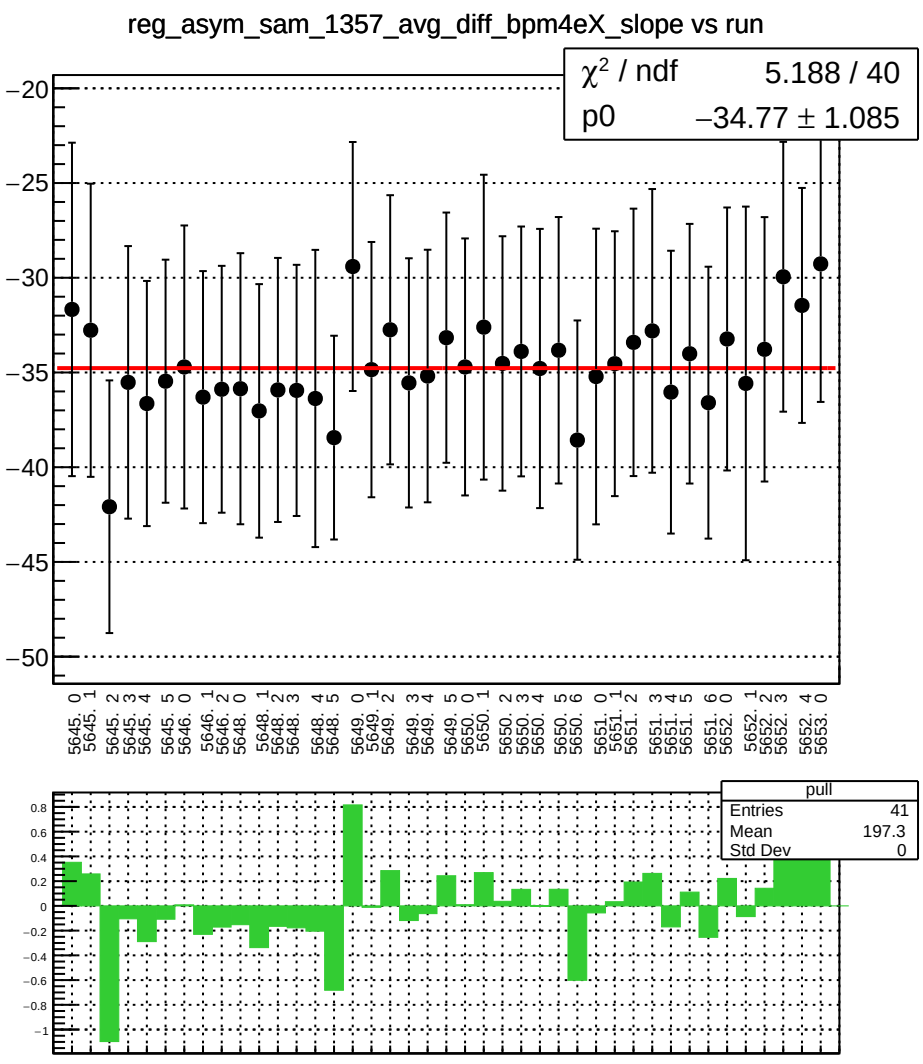

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 195.8 / 40
p0 36.42 ± 1.197
pull
Entries 41
Mean 22.55
Std Dev 16.82
pull1D
Entries 41
Mean −0.3755
Std Dev 2.153

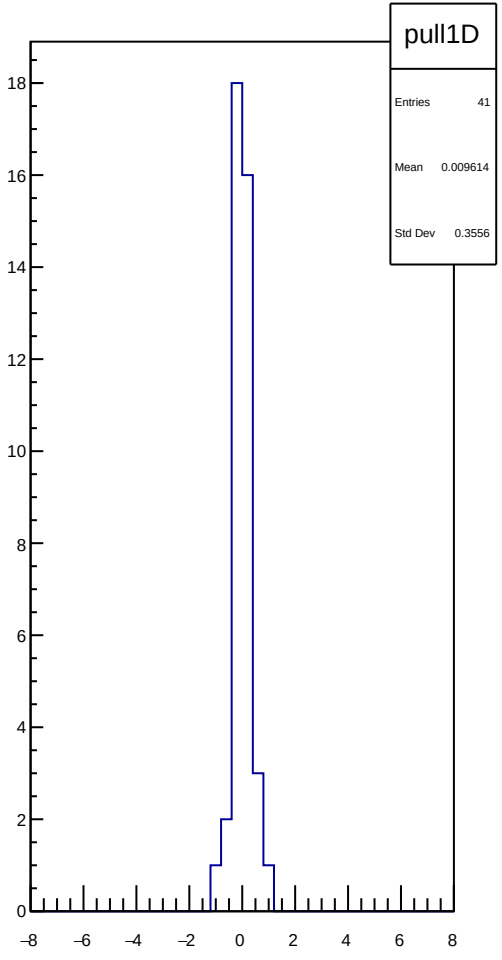

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 19.34 / 40
p0 −0.7042 ± 0.0408
pull
Entries 41
Mean 229.7
Std Dev 0
pull1D
Entries 41
Mean −0.02368
Std Dev 0.6863

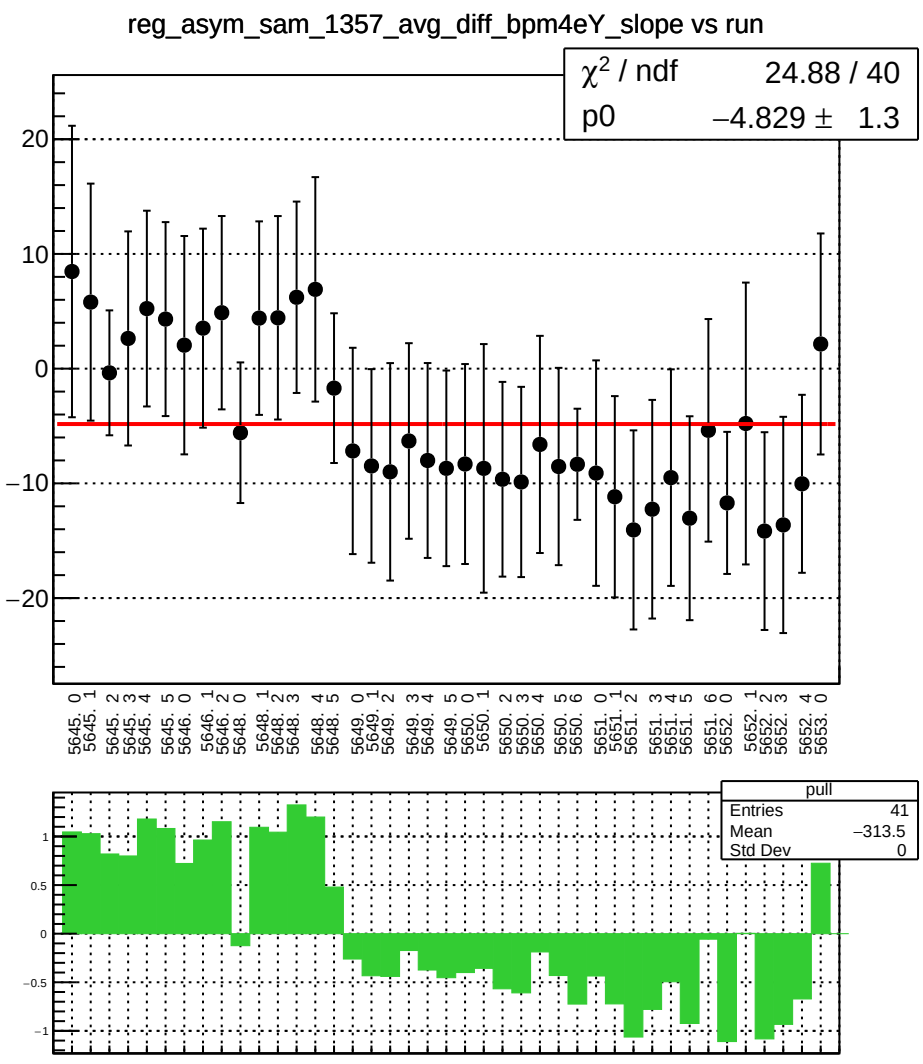

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.875 / 40
p0 −5.185 ± 1.256
pull
Entries 41
Mean 234.5
Std Dev 0

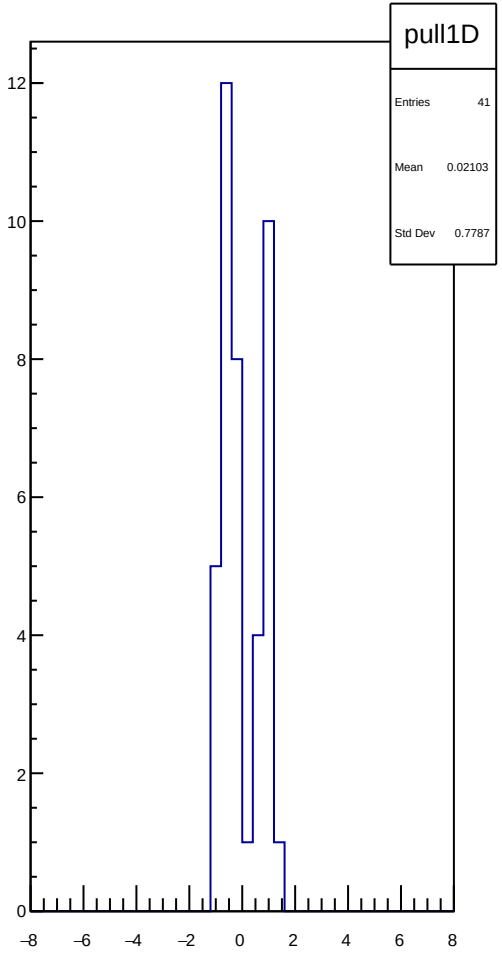

pull1D
Entries 41
Mean −0.01234
Std Dev 0.4093

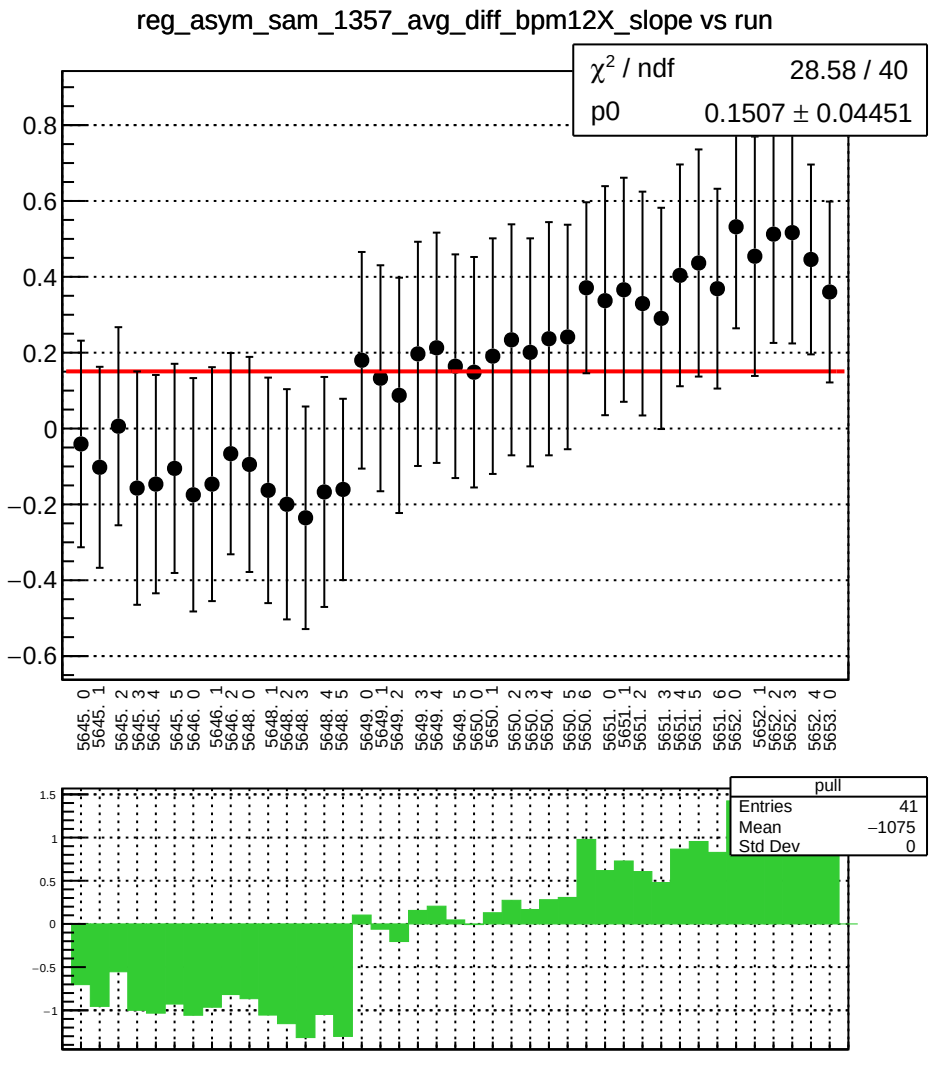

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.18 / 40
p0 0.01878 ± 1.032
pull
Entries 41
Mean −48.71
Std Dev 0
pull1D
Entries 41
Mean −0.04762
Std Dev 0.565

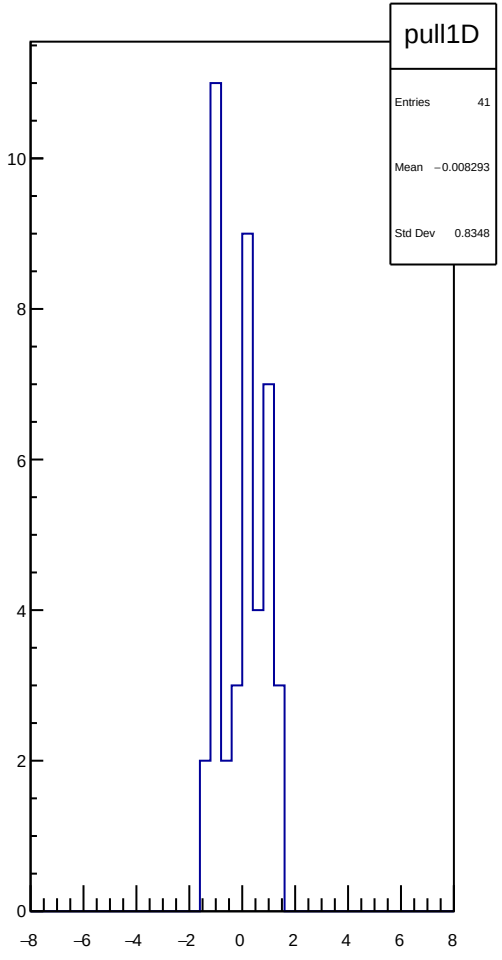

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.188 / 40
p0 −34.77 ± 1.085
pull
Entries 41
Mean 197.3
Std Dev 0

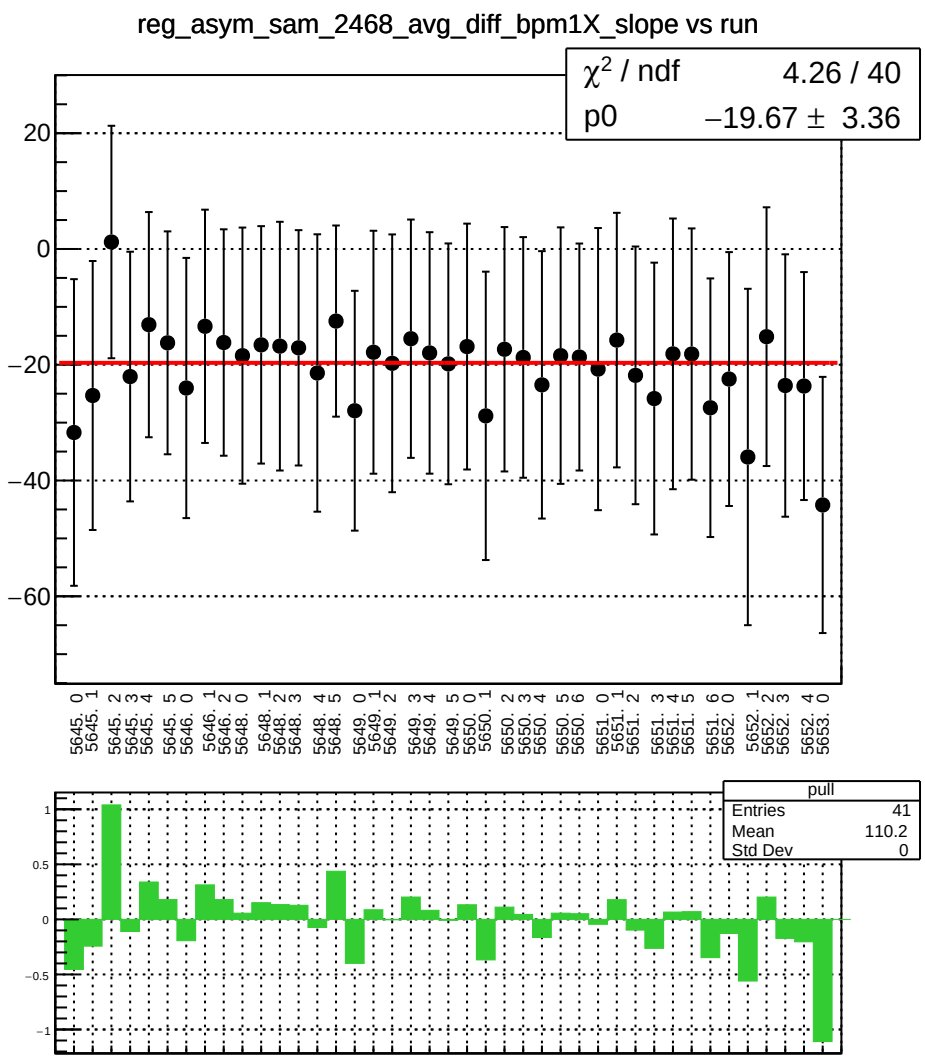

pull1D
Entries 41
Mean 0.009614
Std Dev 0.3556

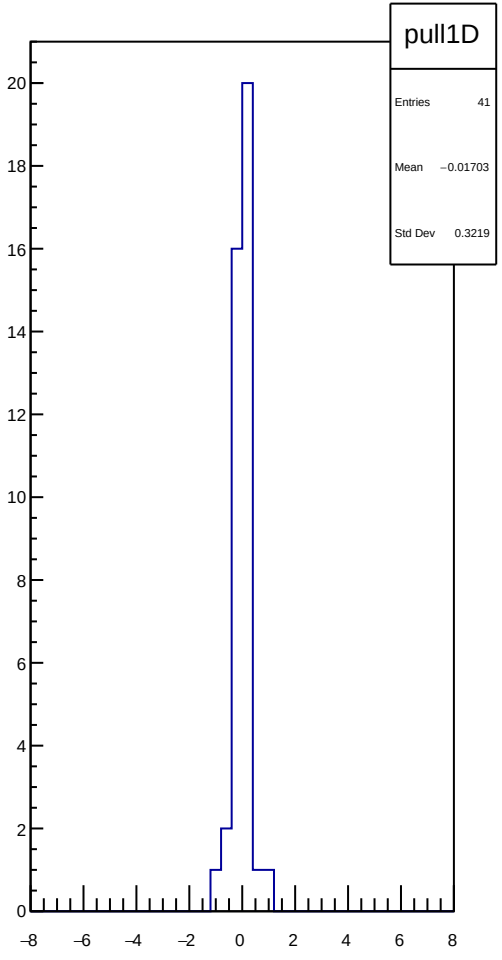

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.88 / 40
p0 −4.829 ± 1.3
pull
Entries 41
Mean −313.5
Std Dev 0

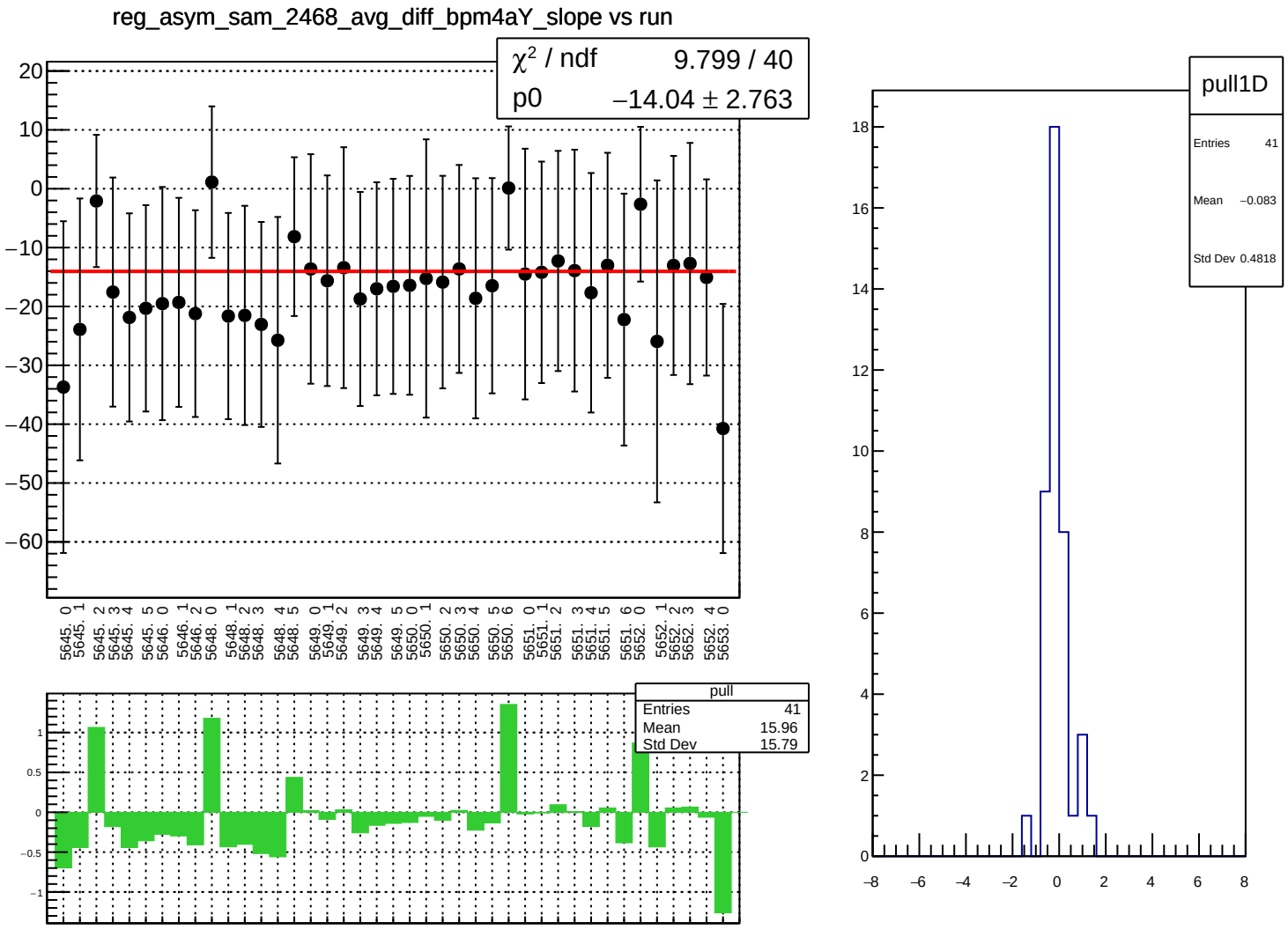

pull1D
Entries 41
Mean 0.02103
Std Dev 0.7787

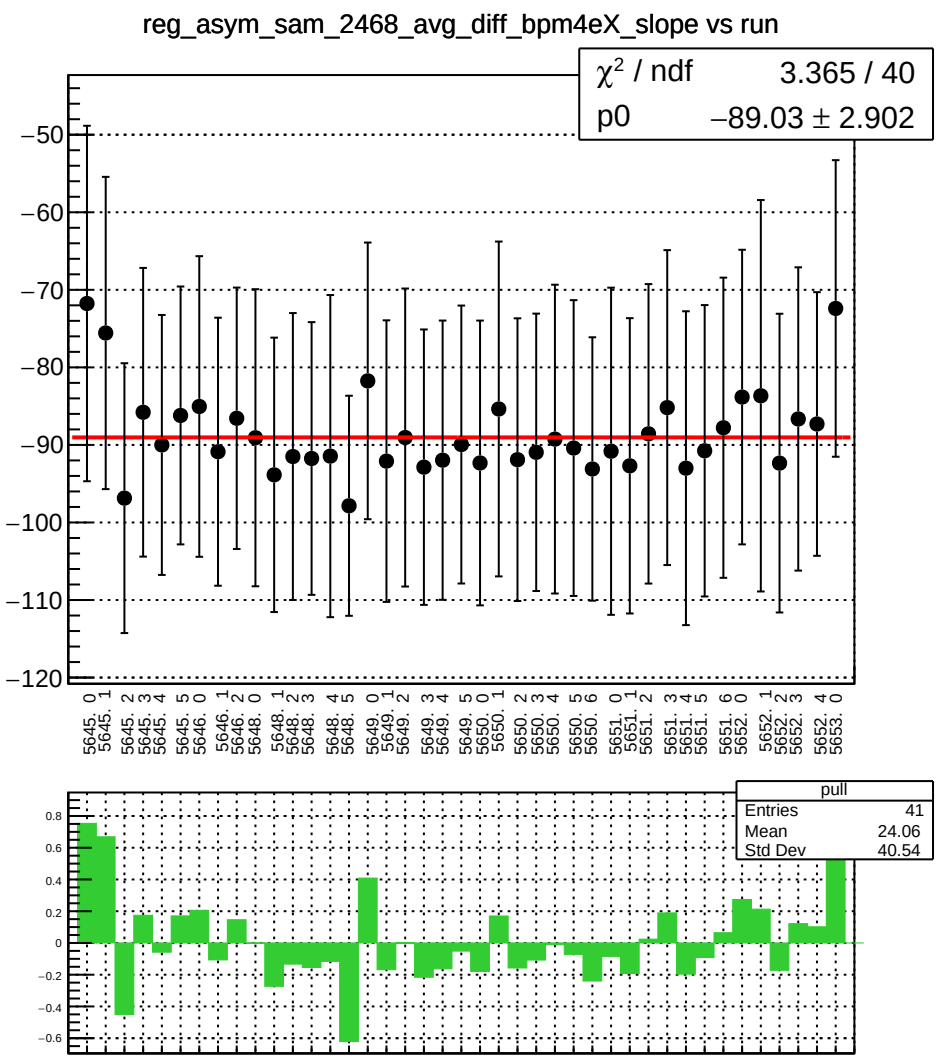

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 28.58 / 40
p0 0.1507 ± 0.04451
pull
Entries 41
Mean −1075
Std Dev 0

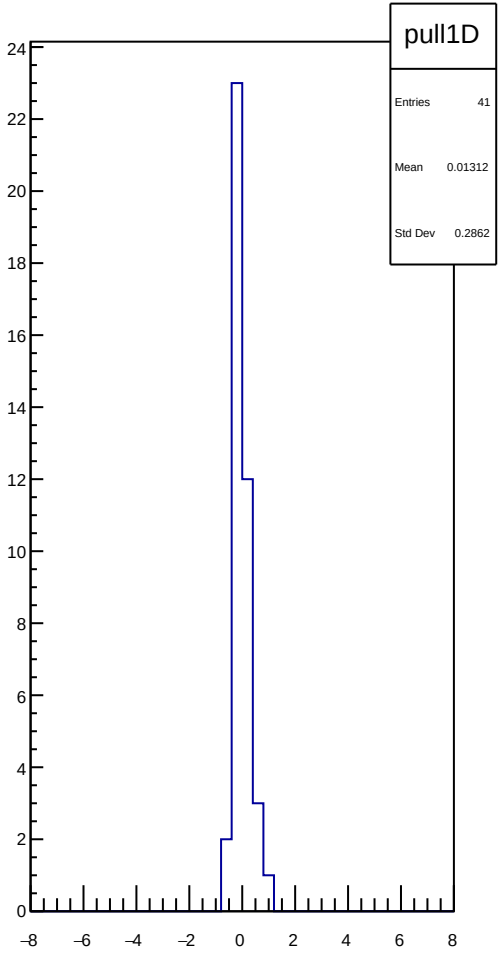

pull1D
Entries 41
Mean −0.008293
Std Dev 0.8348

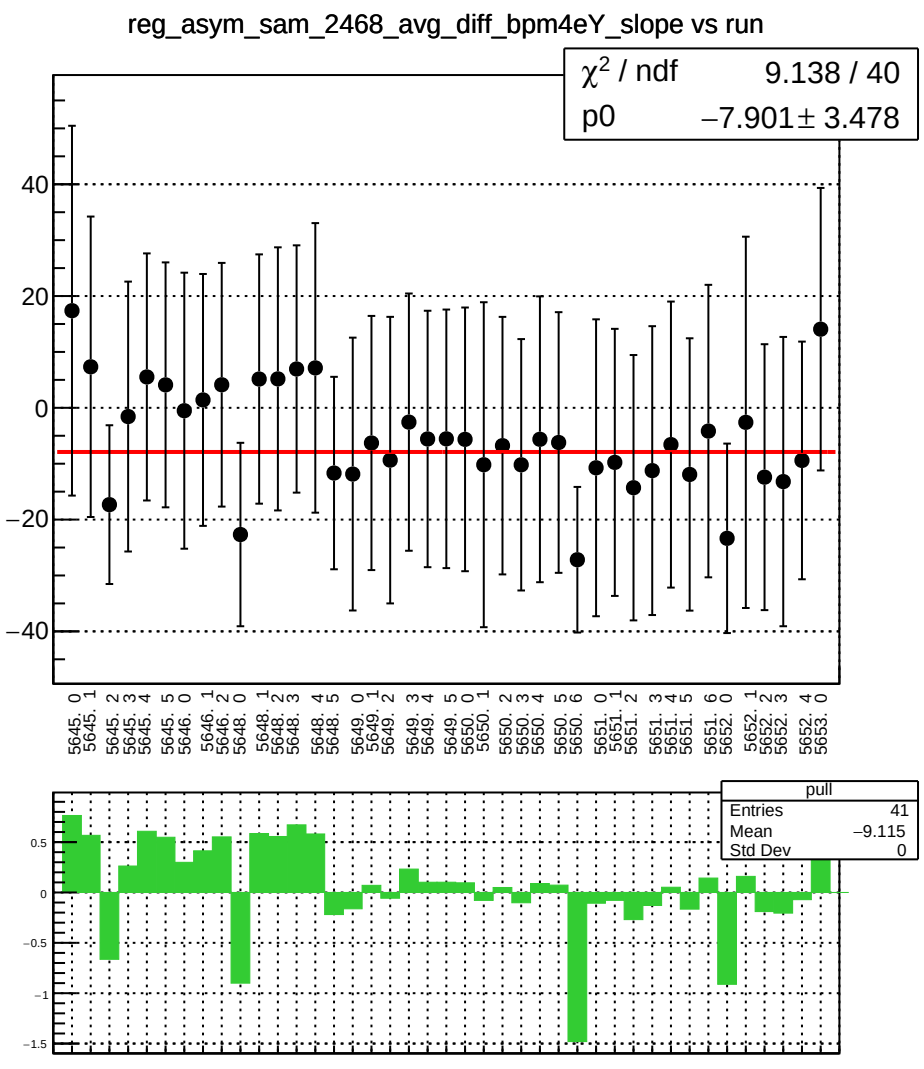

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 4.26 / 40
p0 −19.67 ± 3.36
20
0
−20
−40
−60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 110.2
Std Dev 0
1
0.5
0
−0.5
−1

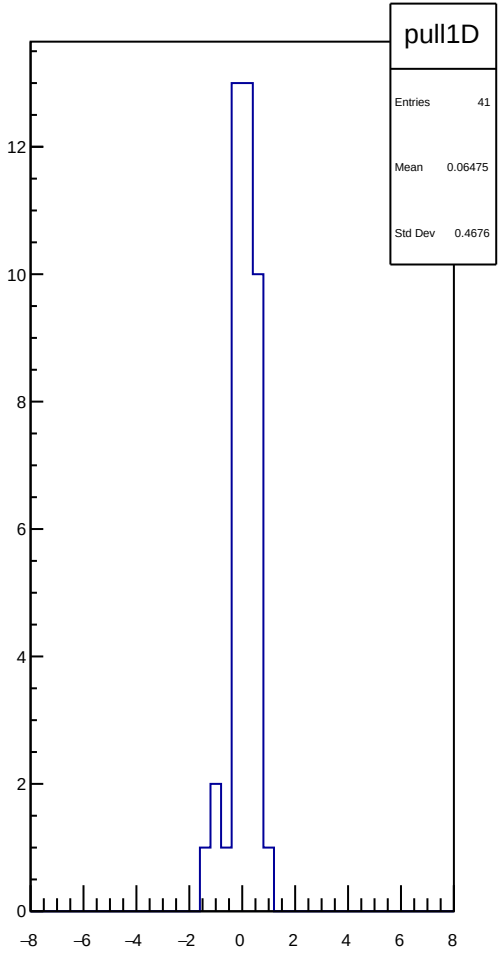

pull1D
Entries 41
Mean −0.01703
Std Dev 0.3219
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

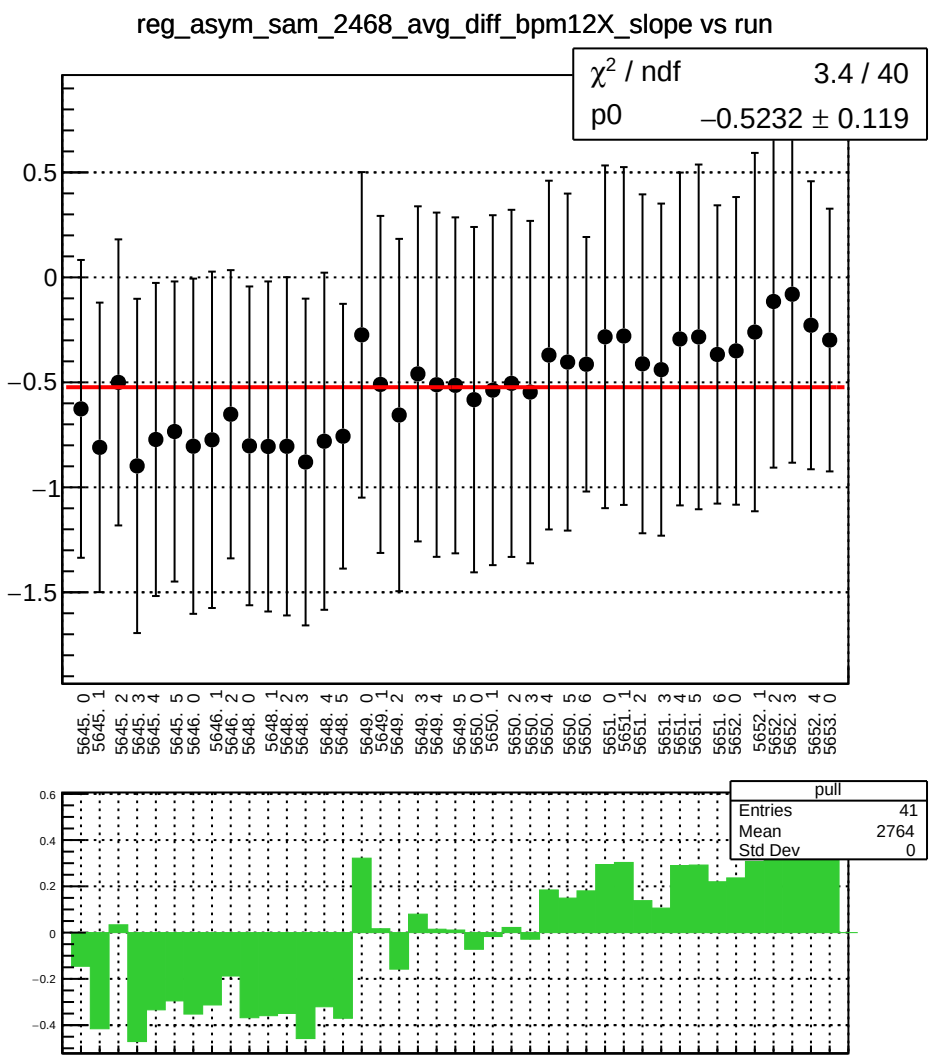

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.799 / 40
p0 −14.04 ± 2.763
pull
Entries 41
Mean 15.96
Std Dev 15.79
pull1D
Entries 41
Mean −0.083
Std Dev 0.4818

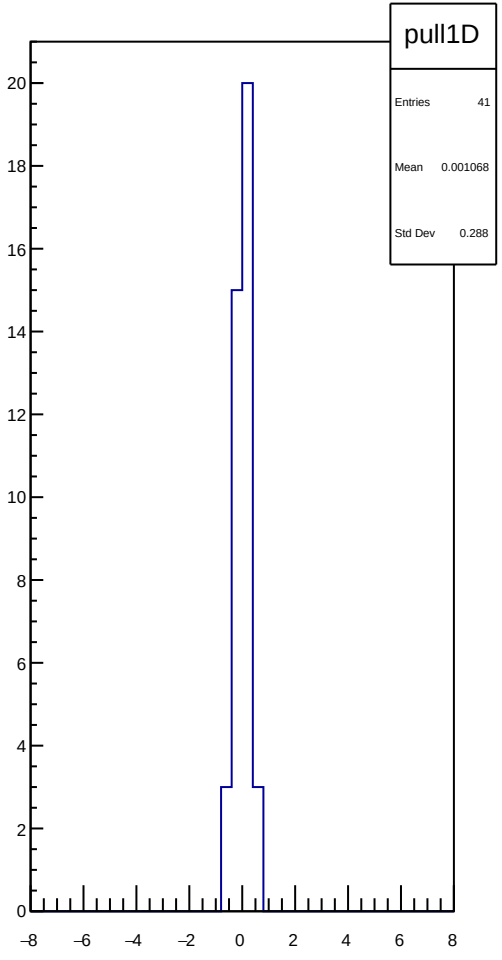

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.365 / 40
p0 −89.03 ± 2.902
pull
Entries 41
Mean 24.06
Std Dev 40.54

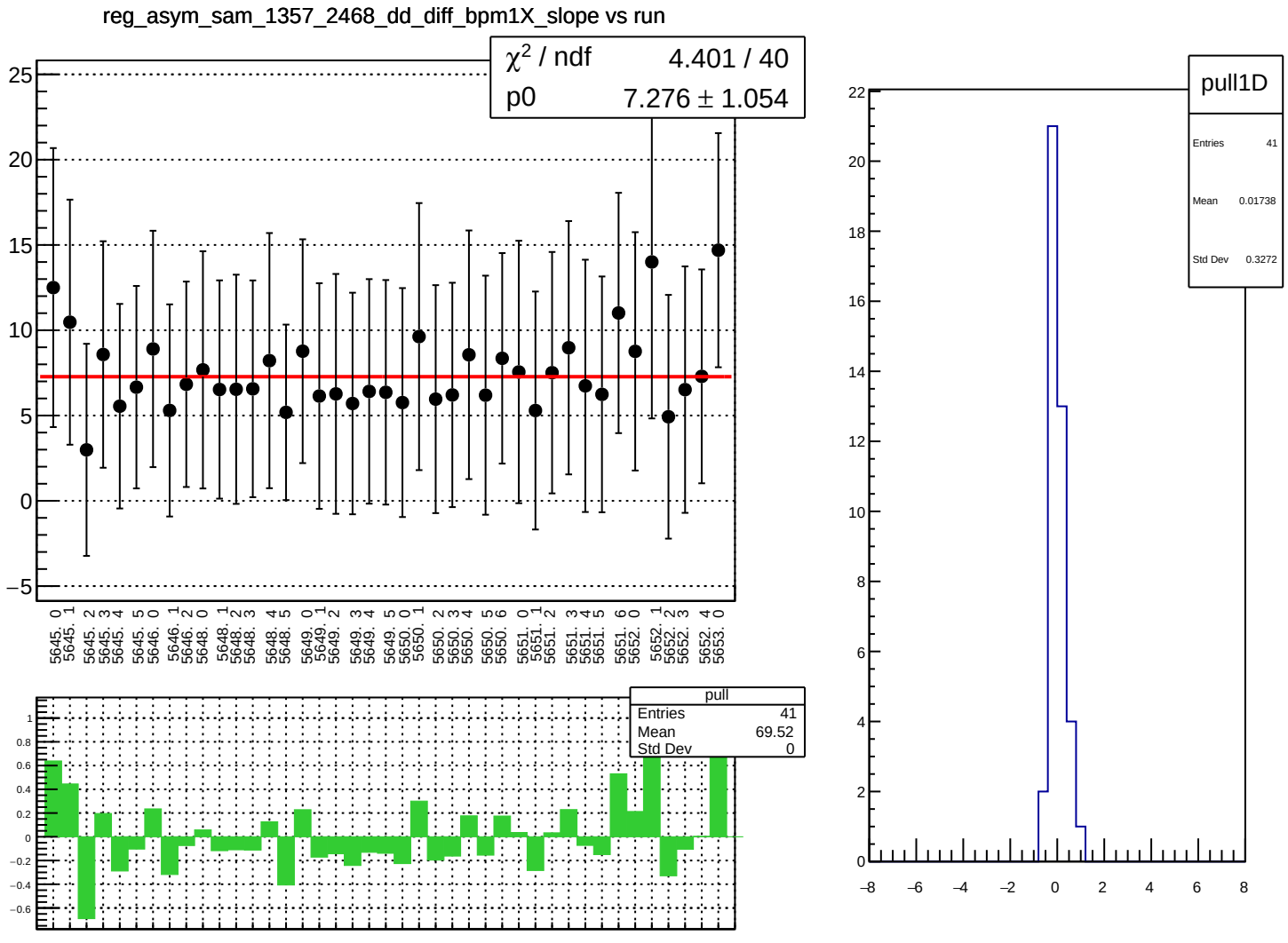

pull1D
Entries 41
Mean 0.01312
Std Dev 0.2862

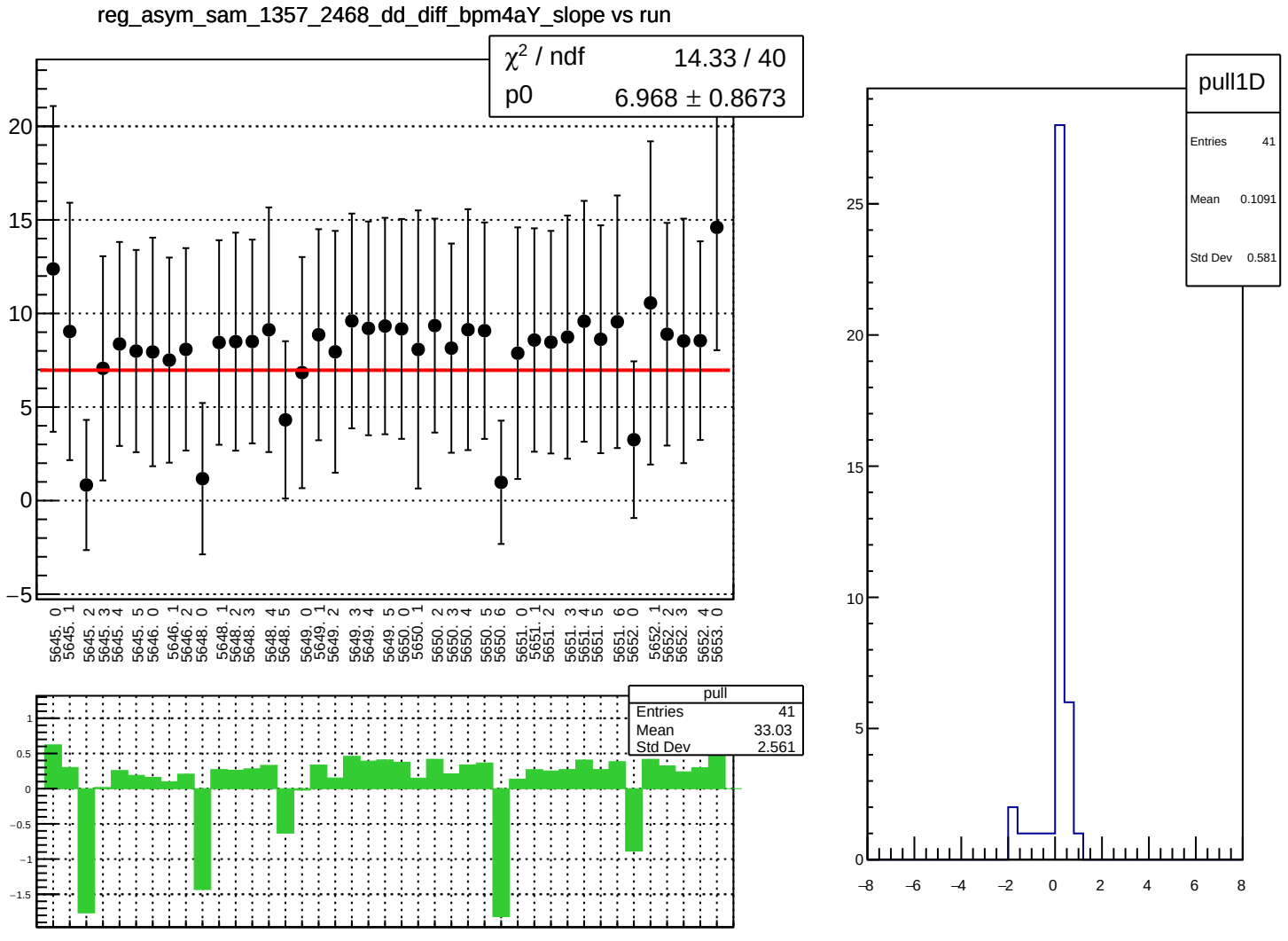

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.138 / 40
p0 −7.901± 3.478
40
20
0
−20
−40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −9.115
Std Dev 0
0.5
0
−0.5
−1
−1.5

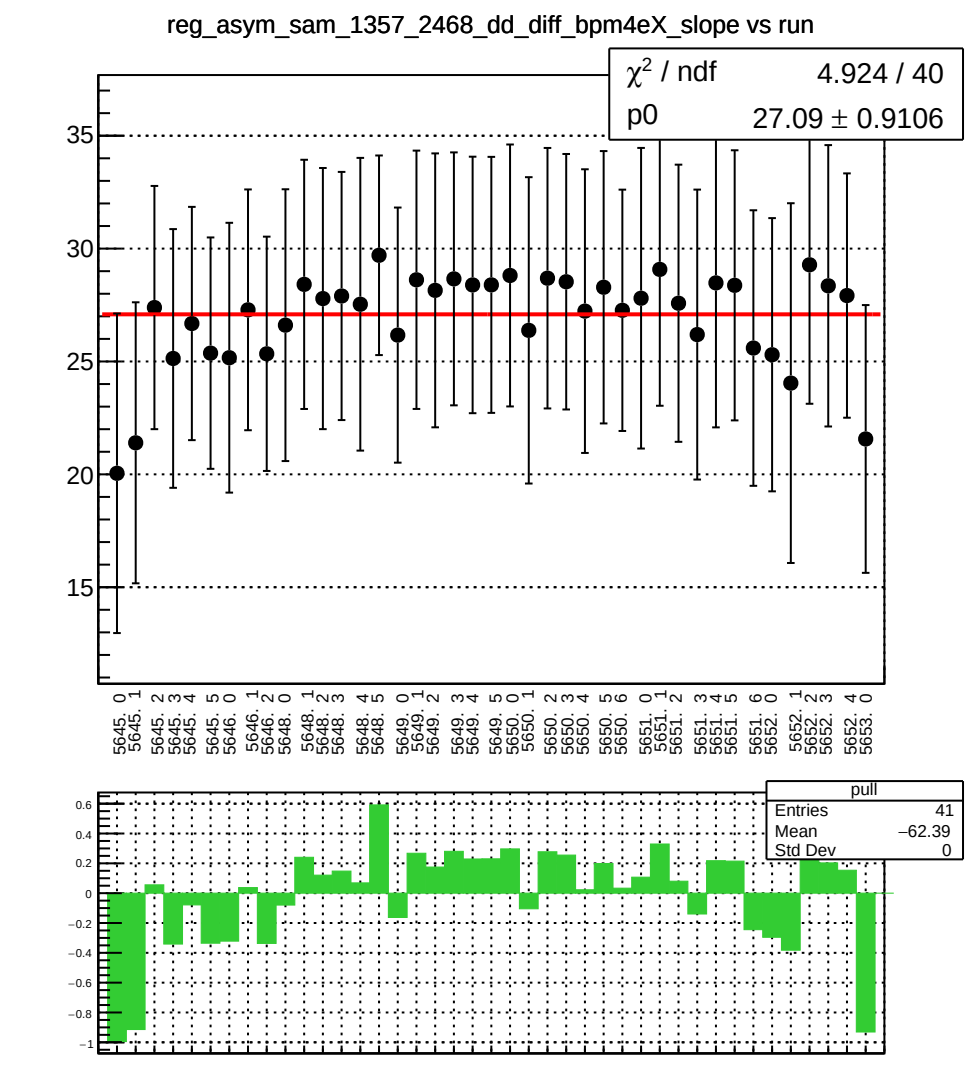

pull1D
Entries 41
Mean 0.06475
Std Dev 0.4676
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

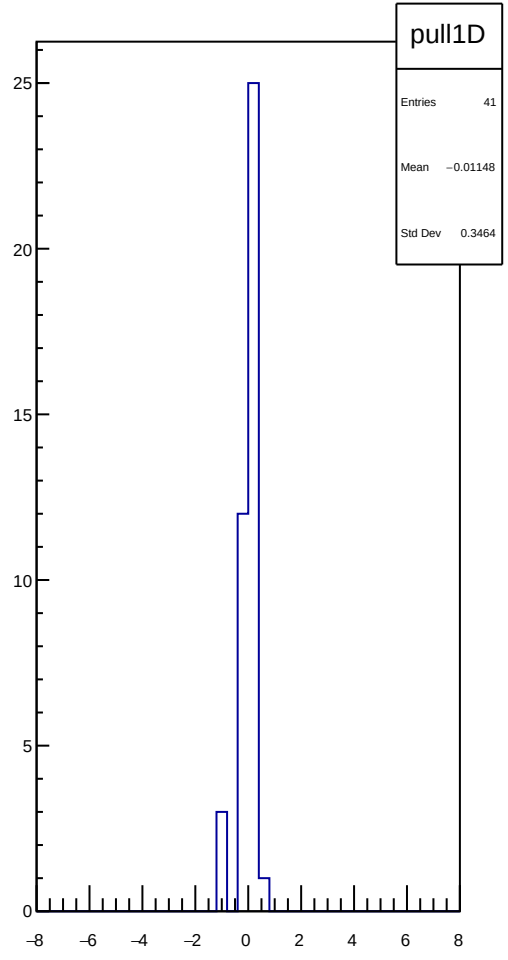

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.4 / 40
p0 −0.5232 ± 0.119
0.5
0
−0.5
−1
−1.5
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2764
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

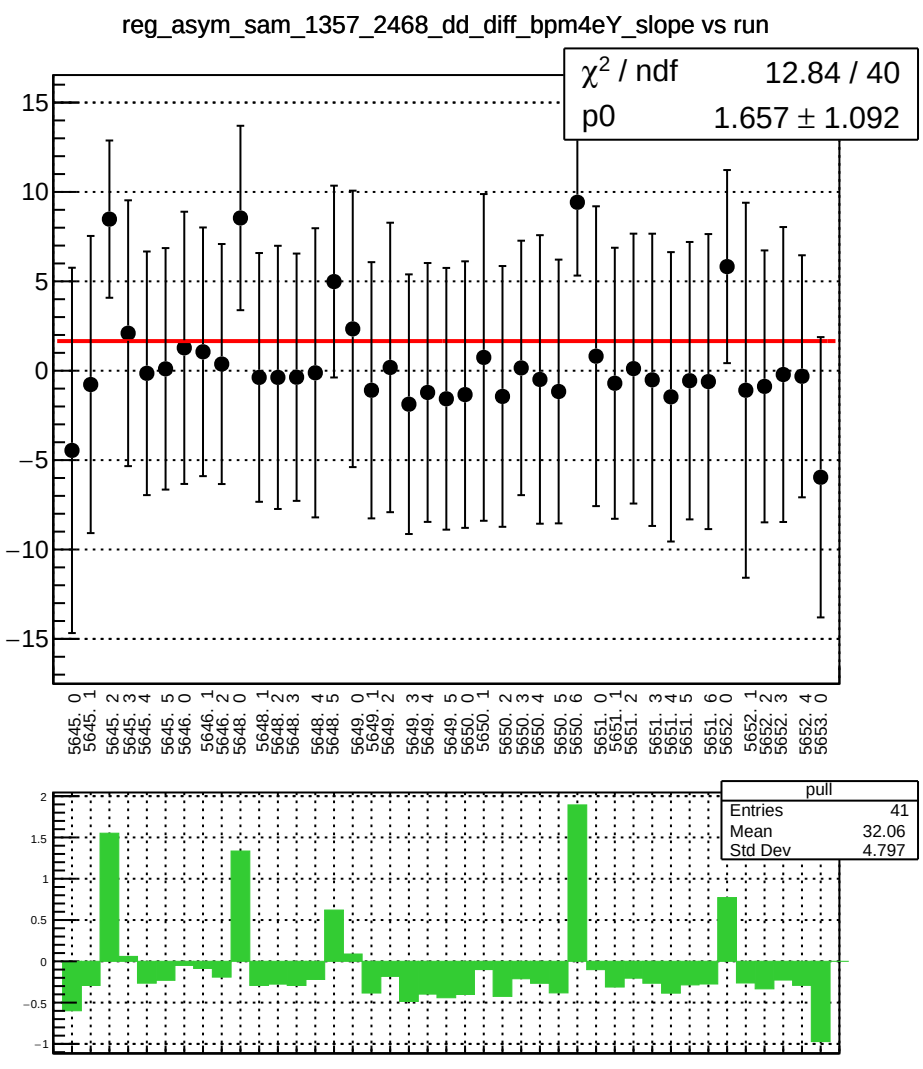

pull1D
Entries 41
Mean 0.001068
Std Dev 0.288
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

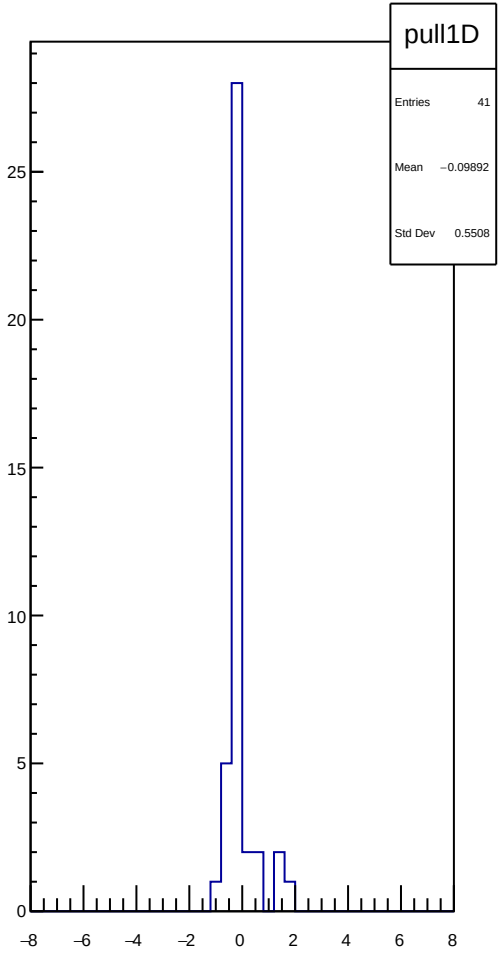

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 4.401 / 40
p0 7.276 ± 1.054
pull
Entries 41
Mean 69.52
Std Dev 0
pull1D
Entries 41
Mean 0.01738
Std Dev 0.3272

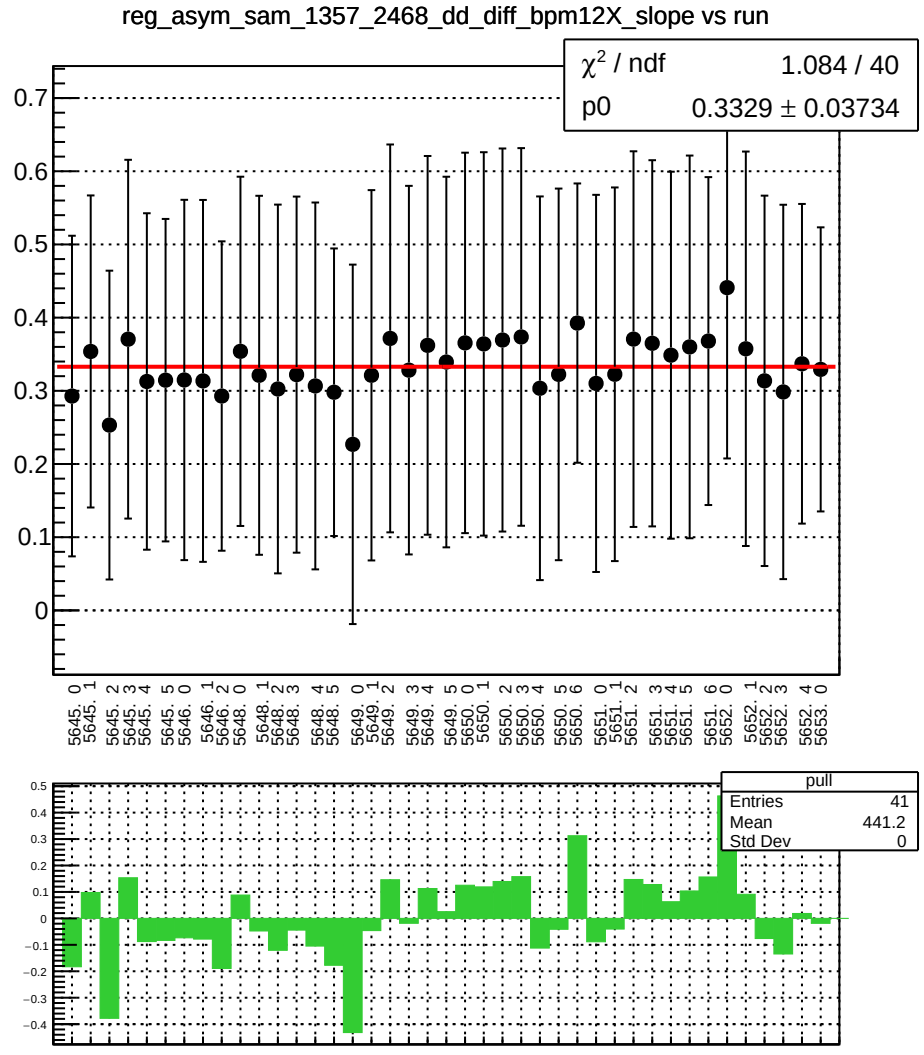

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.33 / 40
p0 6.968 ± 0.8673
pull
Entries 41
Mean 33.03
Std Dev 2.561
pull1D
Entries 41
Mean 0.1091
Std Dev 0.581

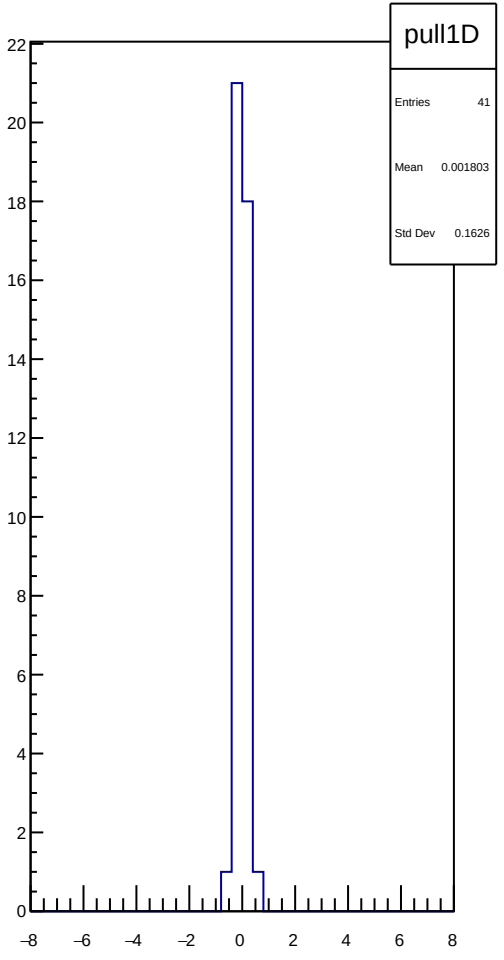

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.924 / 40
p0 27.09 ± 0.9106
pull
Entries 41
Mean −62.39
Std Dev 0

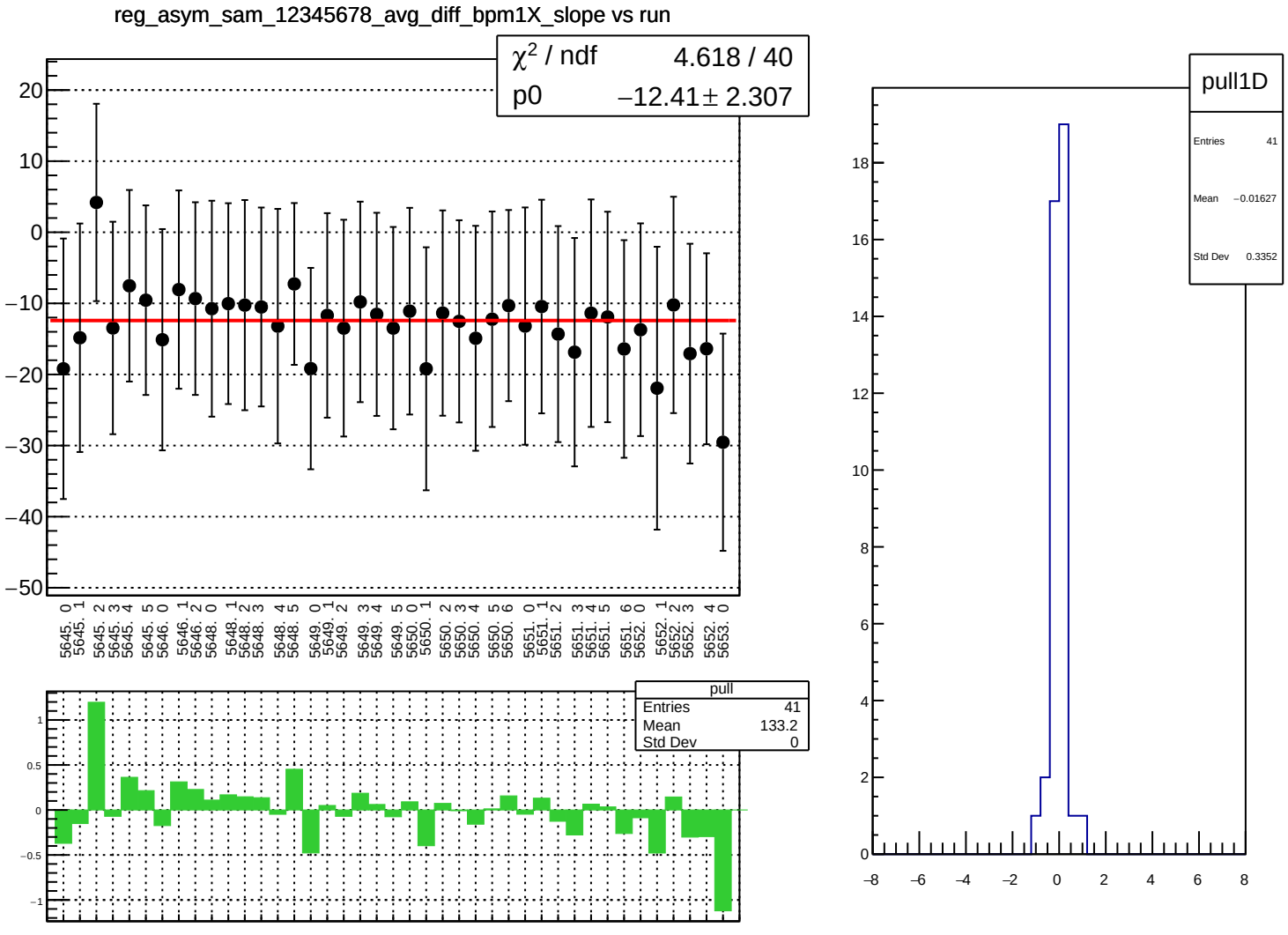

pull1D
Entries 41
Mean −0.01148
Std Dev 0.3464

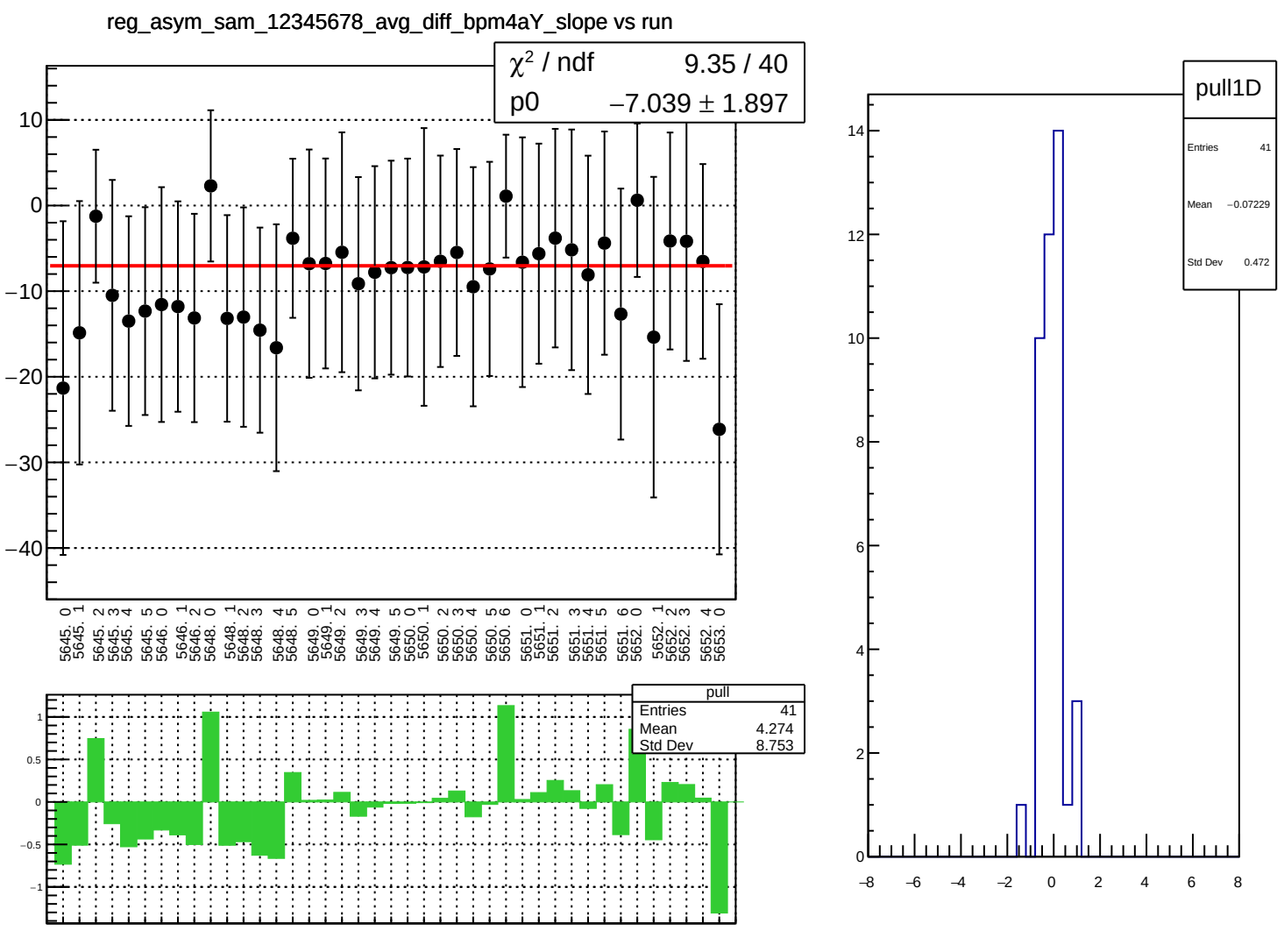

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.84 / 40
p0 1.657 ± 1.092
pull
Entries 41
Mean 32.06
Std Dev 4.797

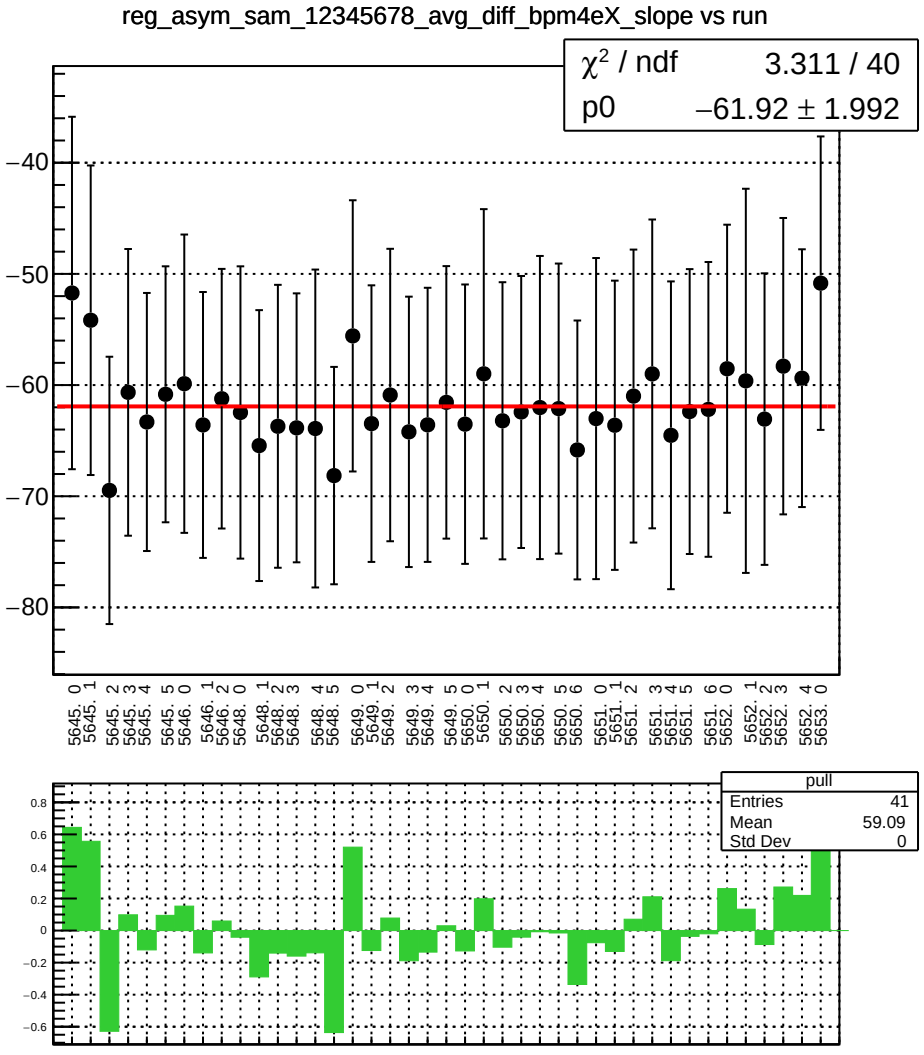

pull1D
Entries 41
Mean −0.09892
Std Dev 0.5508

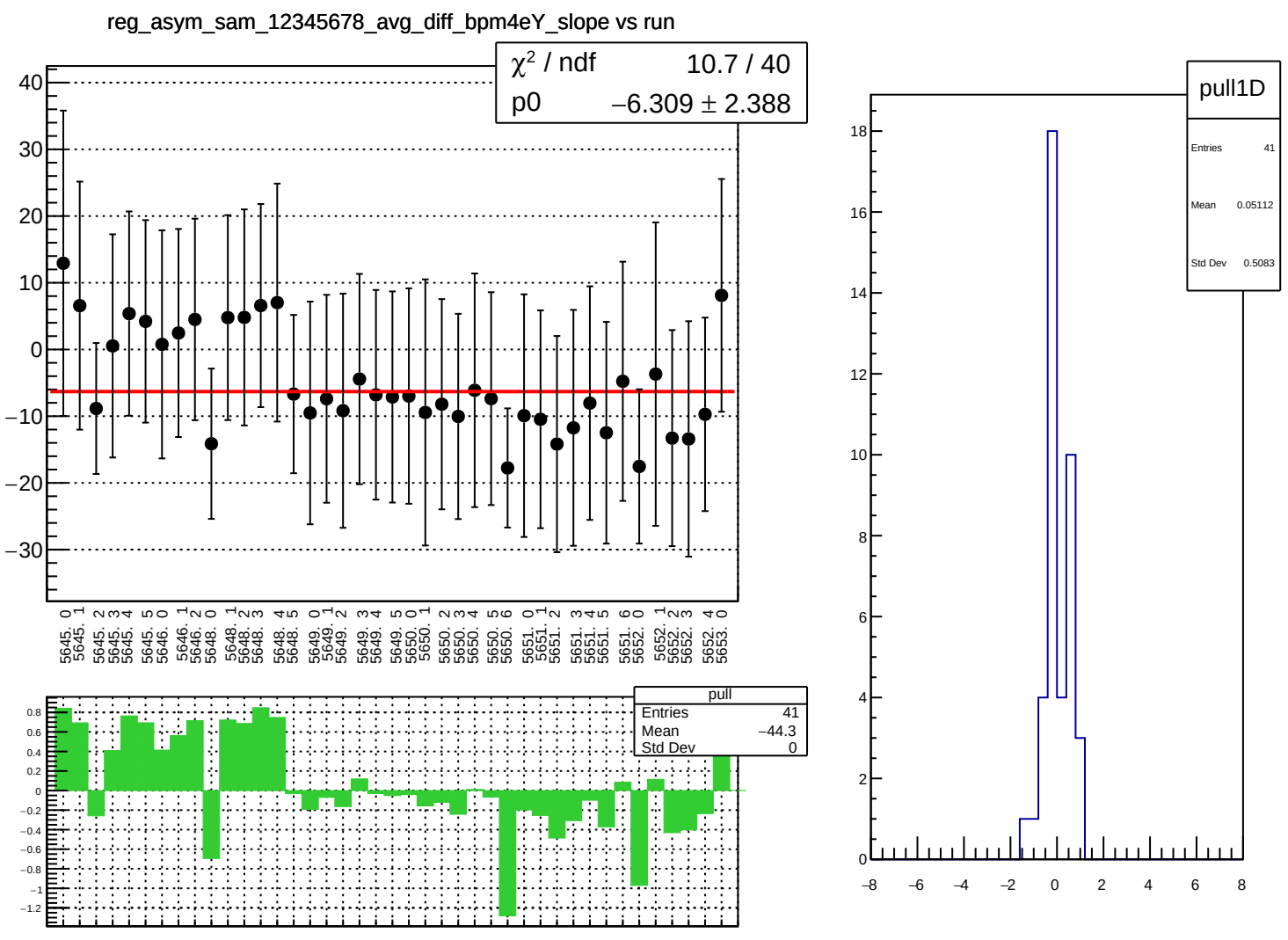

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.084 / 40
p0 0.3329 ± 0.03734
pull
Entries 41
Mean 441.2
Std Dev 0

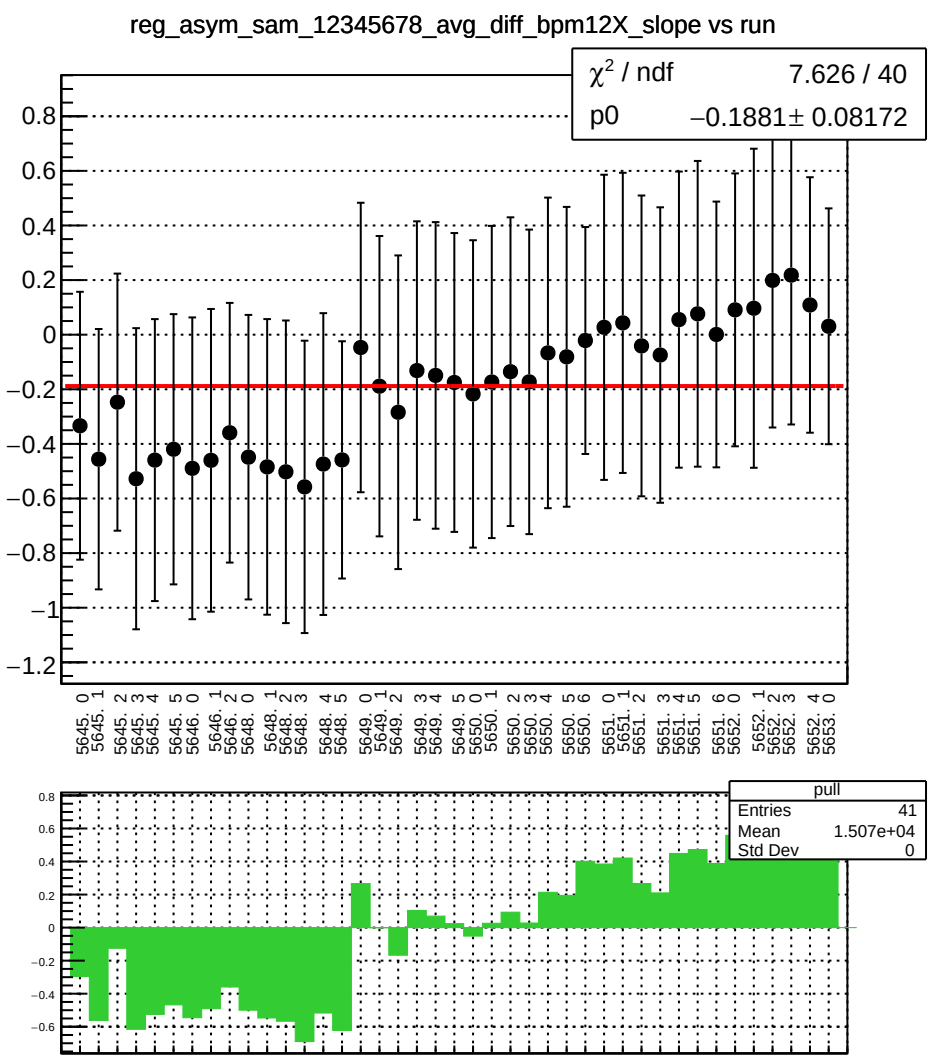

pull1D
Entries 41
Mean 0.001803
Std Dev 0.1626

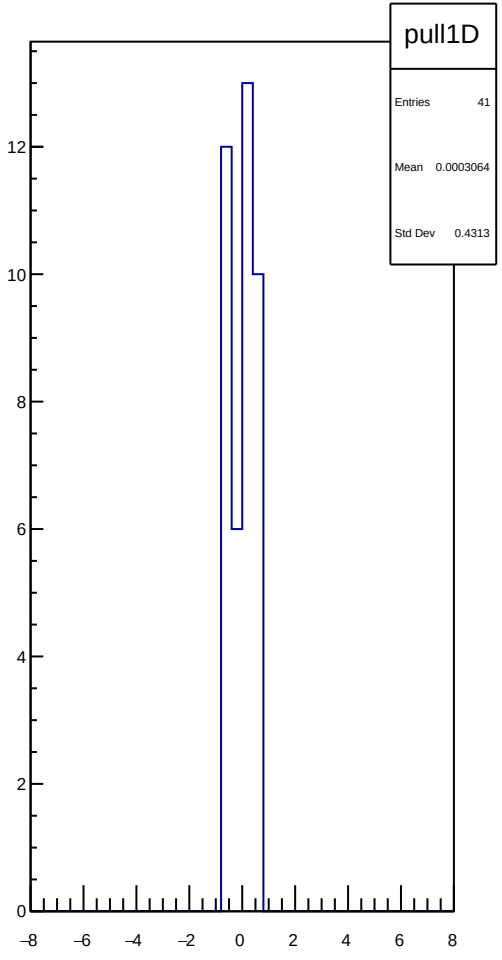

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.618 / 40
p0 −12.41± 2.307
pull
Entries 41
Mean 133.2
Std Dev 0
pull1D
Entries 41
Mean −0.01627
Std Dev 0.3352

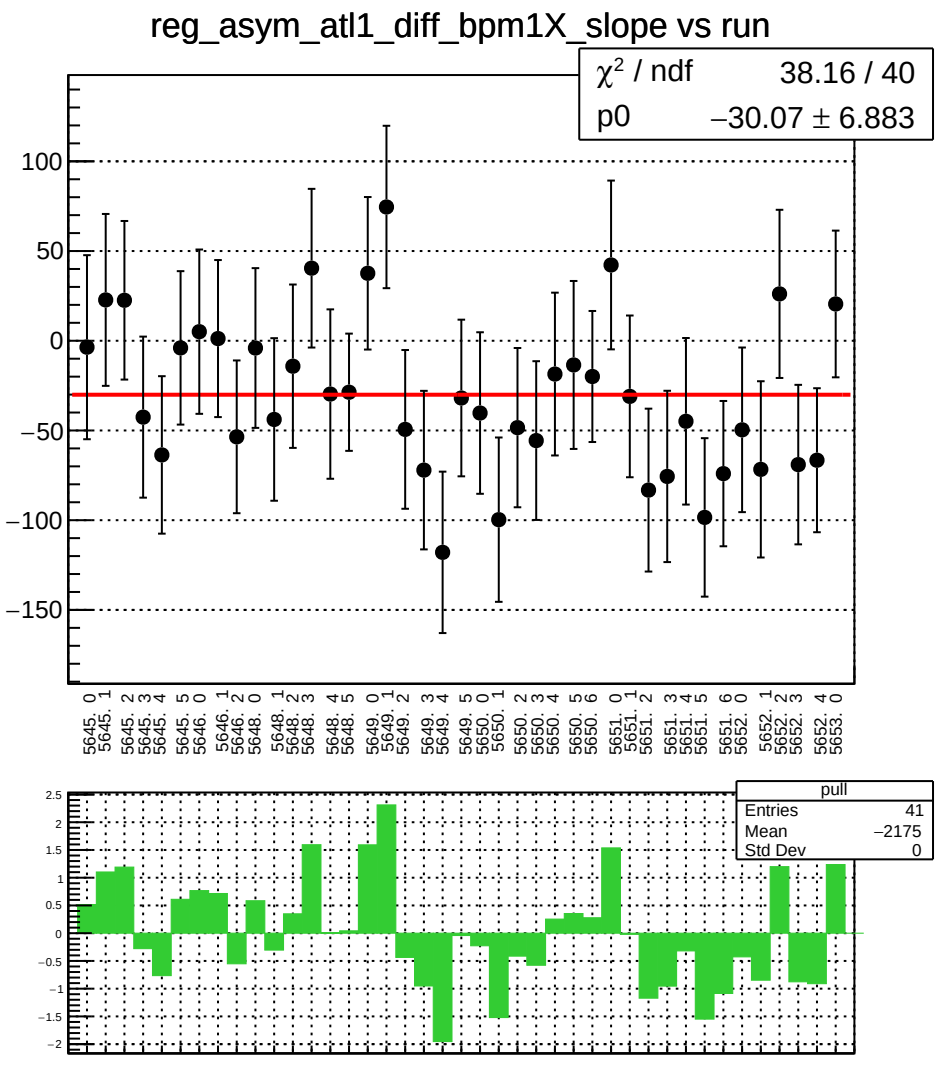

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.35 / 40
p0 −7.039 ± 1.897
10
0
−10
−20
−30
−40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 4.274
Std Dev 8.753
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.07229
Std Dev 0.472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

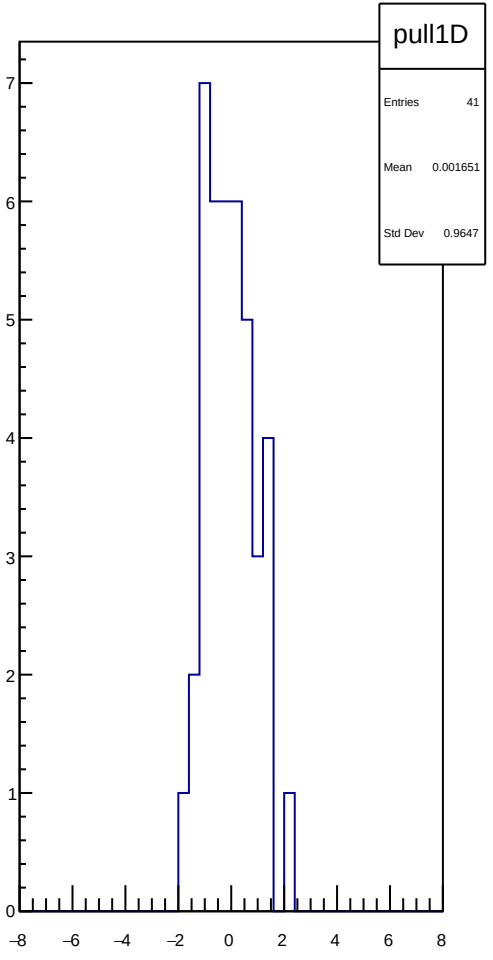

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.311 / 40
p0 −61.92 ± 1.992
−40
−50
−60
−70
−80
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 59.09
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.01296
Std Dev 0.2839
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

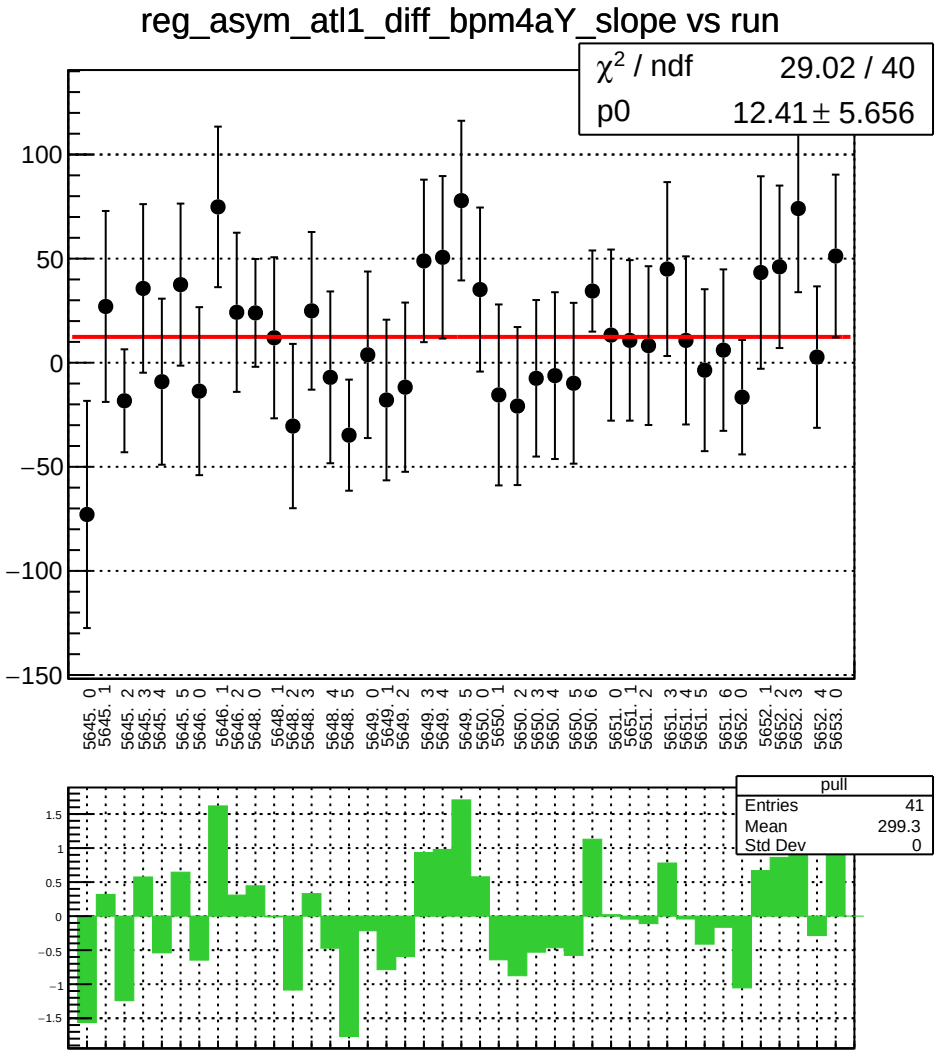

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.7 / 40
p0 −6.309 ± 2.388
pull
Entries 41
Mean −44.3
Std Dev 0
pull1D
Entries 41
Mean 0.05112
Std Dev 0.5083

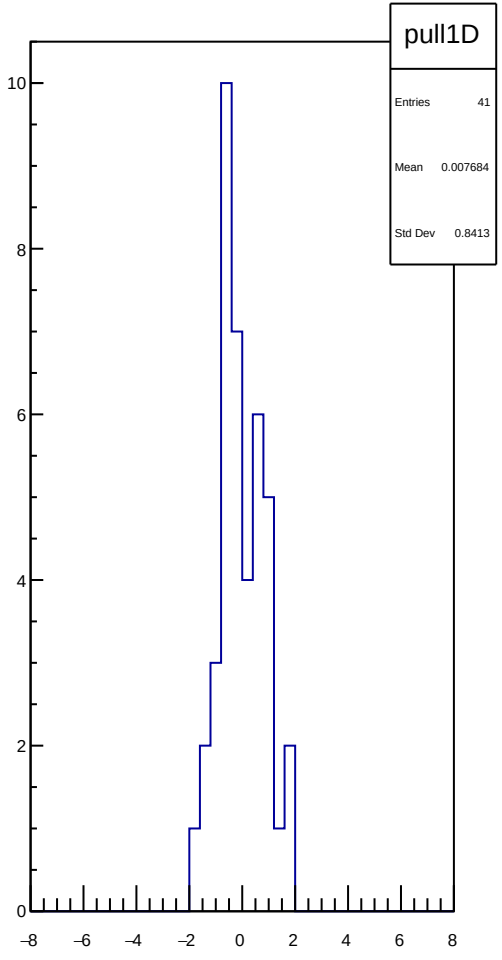

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 7.626 / 40
p0 −0.1881± 0.08172
pull
Entries 41
Mean 1.507e+04
Std Dev 0

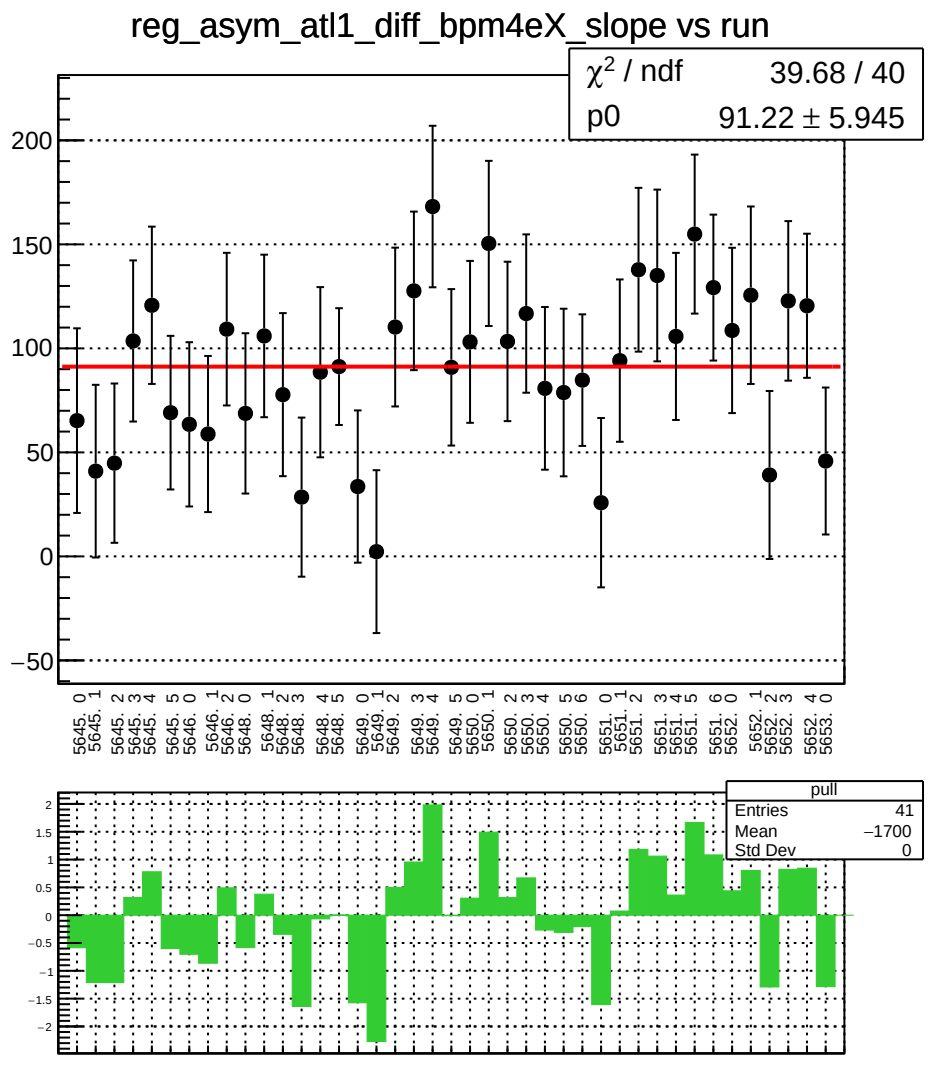

pull1D
Entries 41
Mean 0.0003064
Std Dev 0.4313

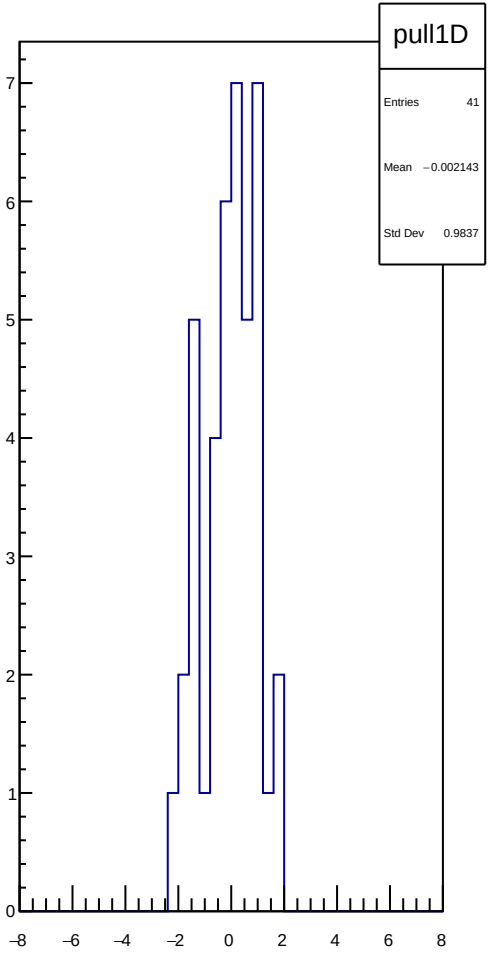

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 38.16 / 40
p0 −30.07 ± 6.883
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −2175
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

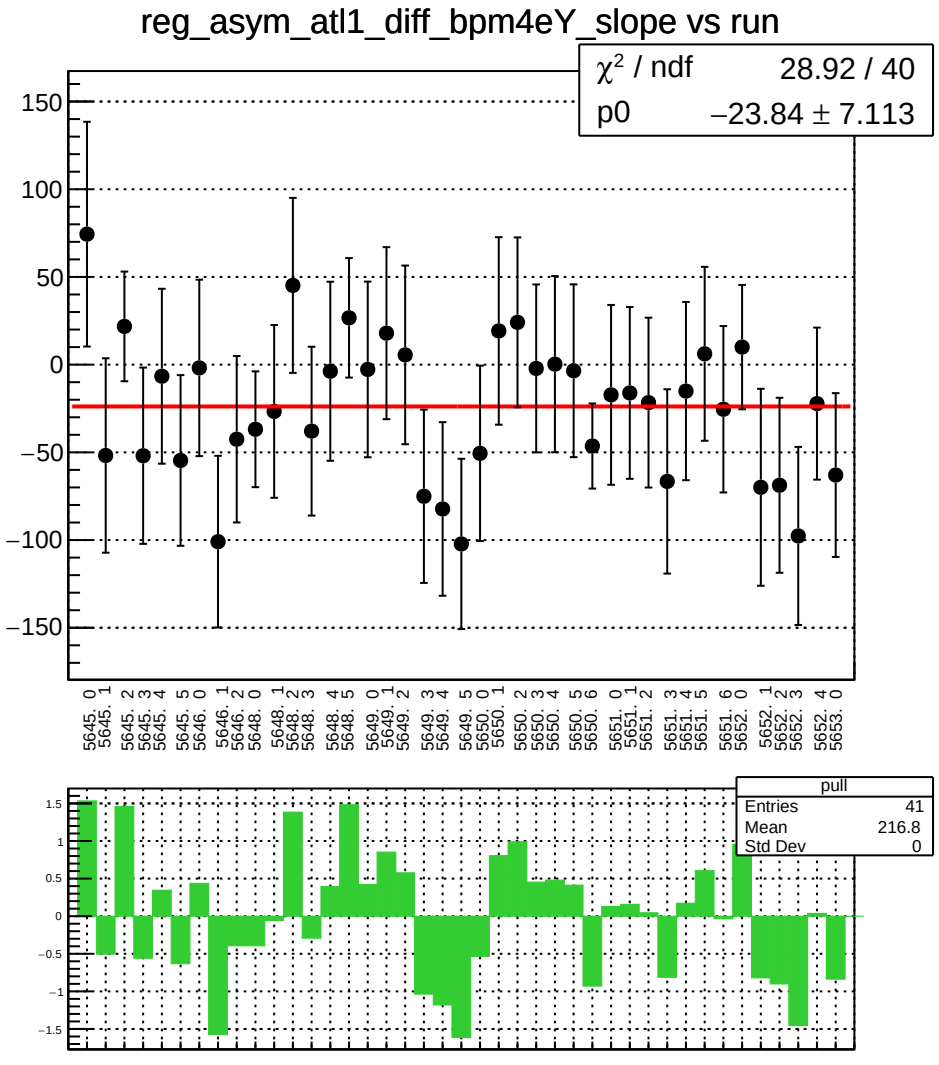

pull1D
Entries 41
Mean 0.001651
Std Dev 0.9647
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

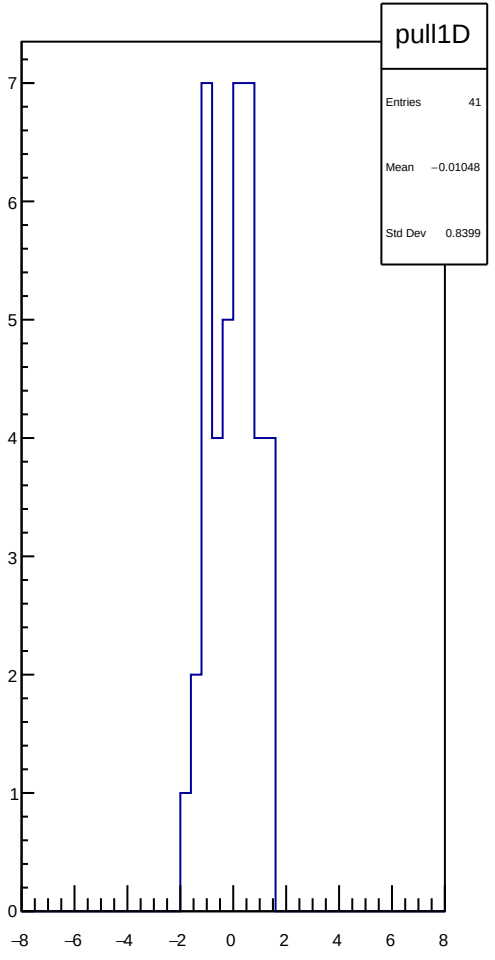

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 29.02 / 40
p0 12.41 ± 5.656
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 299.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

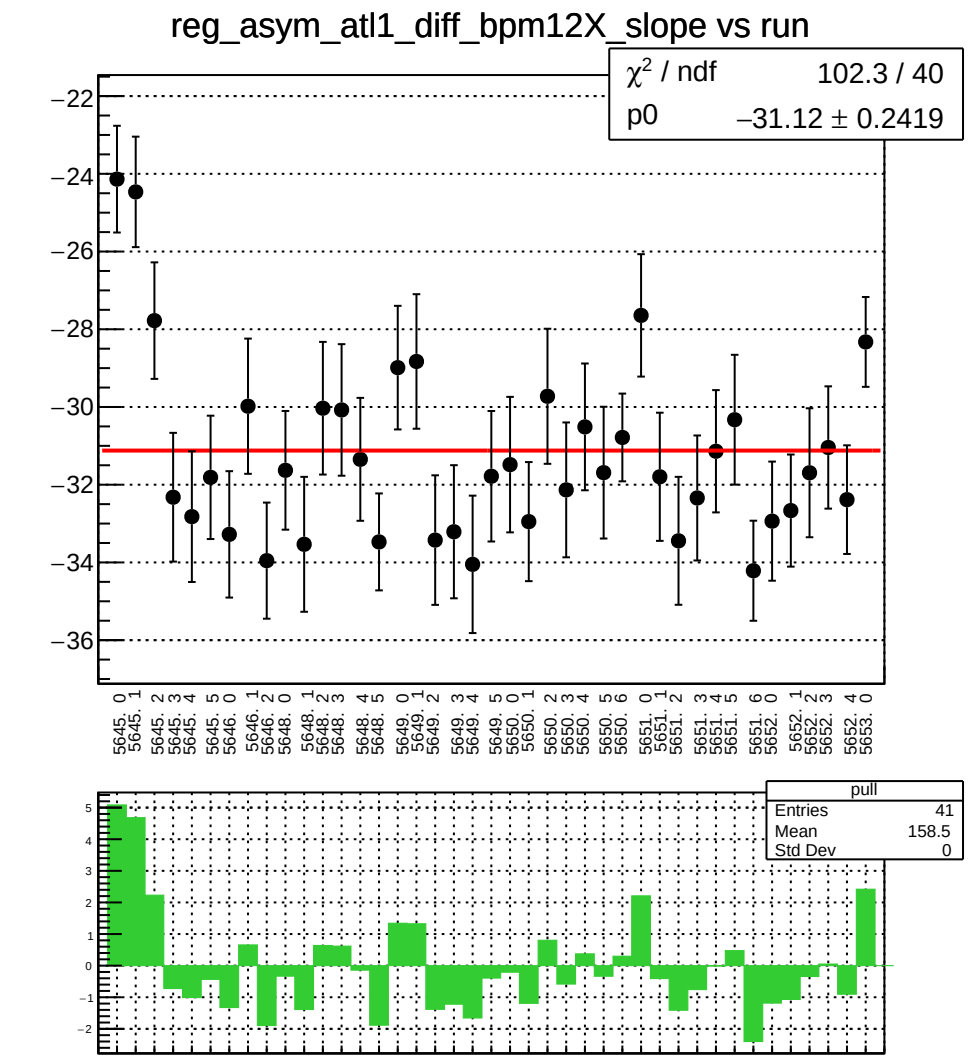

pull1D
Entries 41
Mean 0.007684
Std Dev 0.8413
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

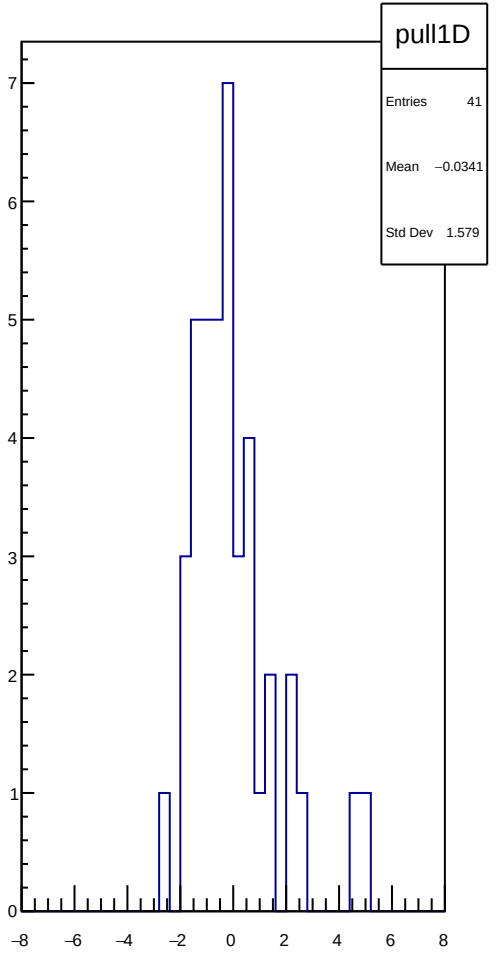

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 39.68 / 40
p0 91.22 ± 5.945
200
150
100
50
0
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −1700
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

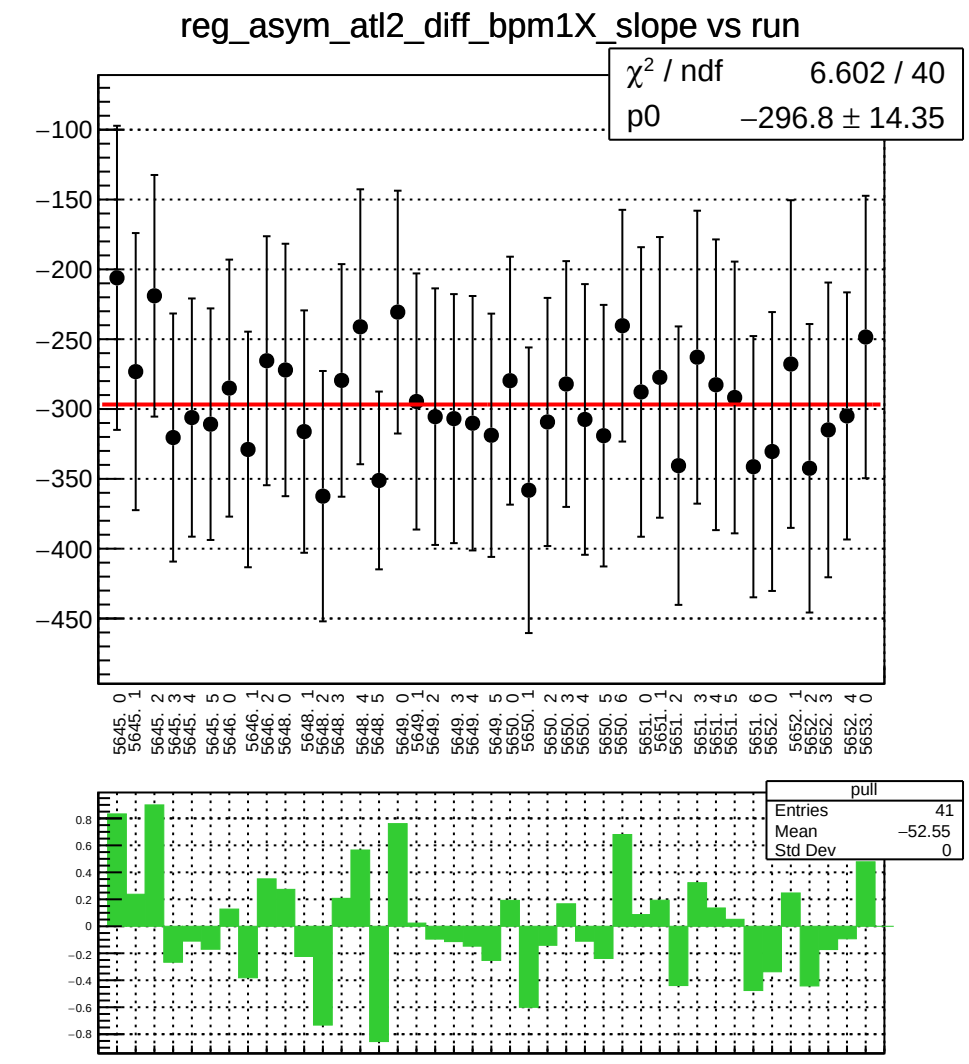

pull1D
Entries 41
Mean −0.002143
Std Dev 0.9837
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

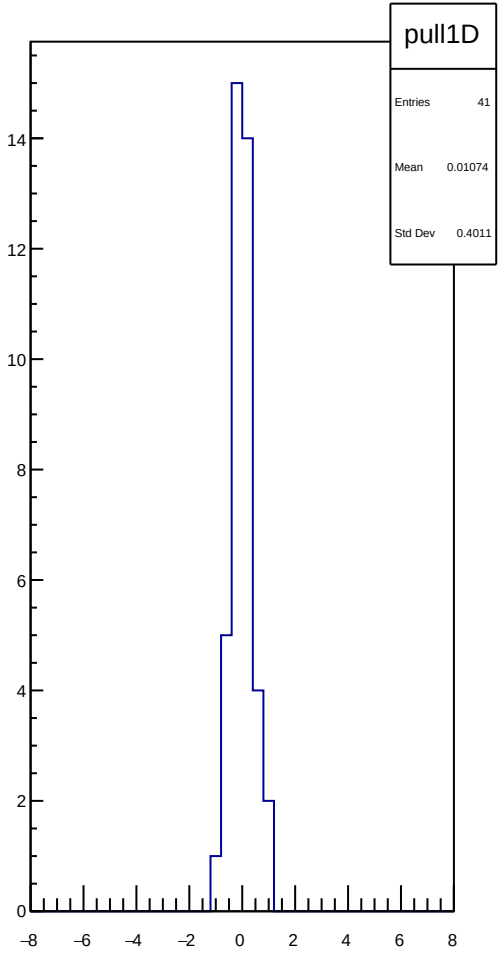

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 28.92 / 40
p0 −23.84 ± 7.113
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 216.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

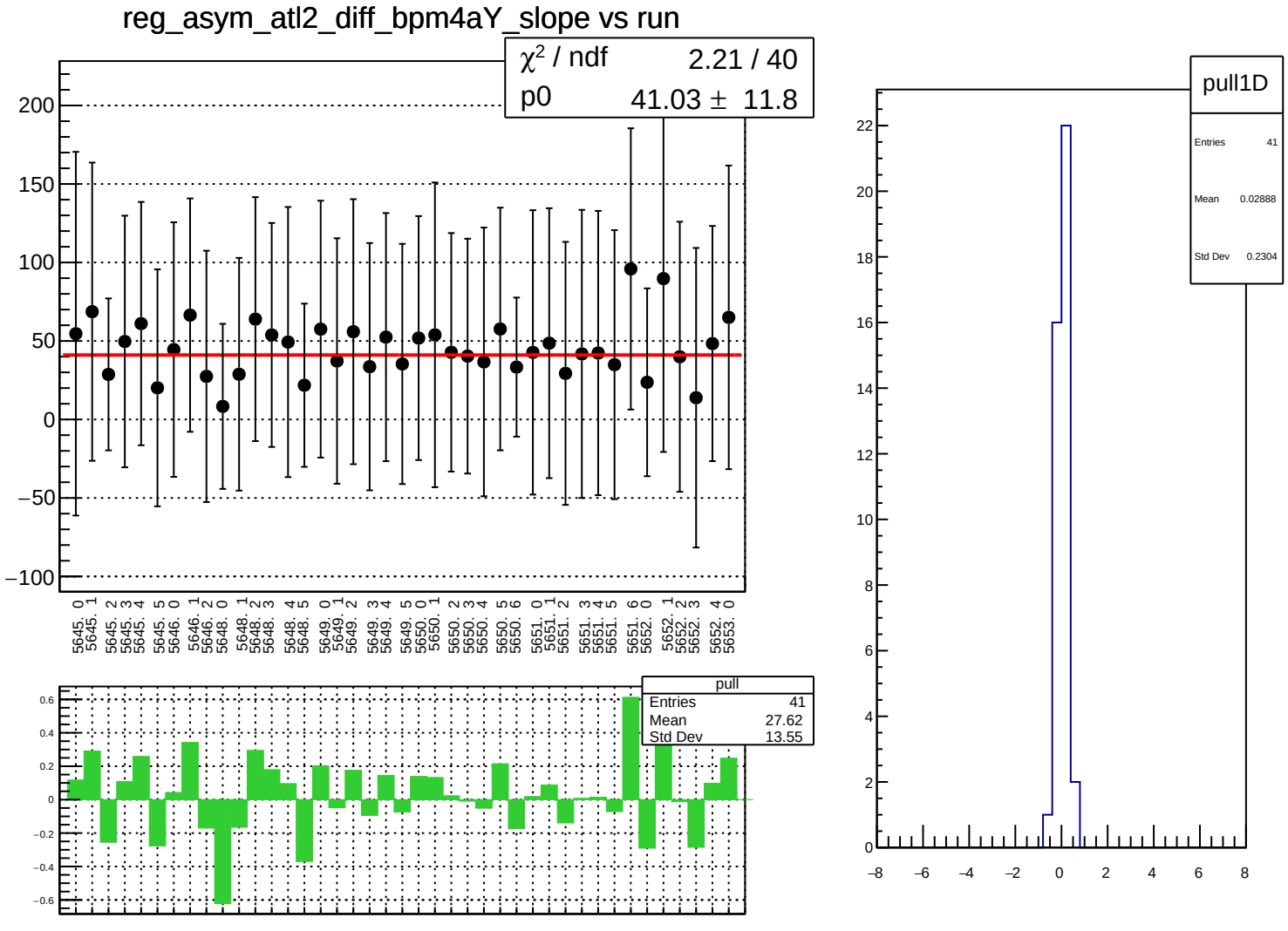

pull1D
Entries 41
Mean −0.01048
Std Dev 0.8399
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

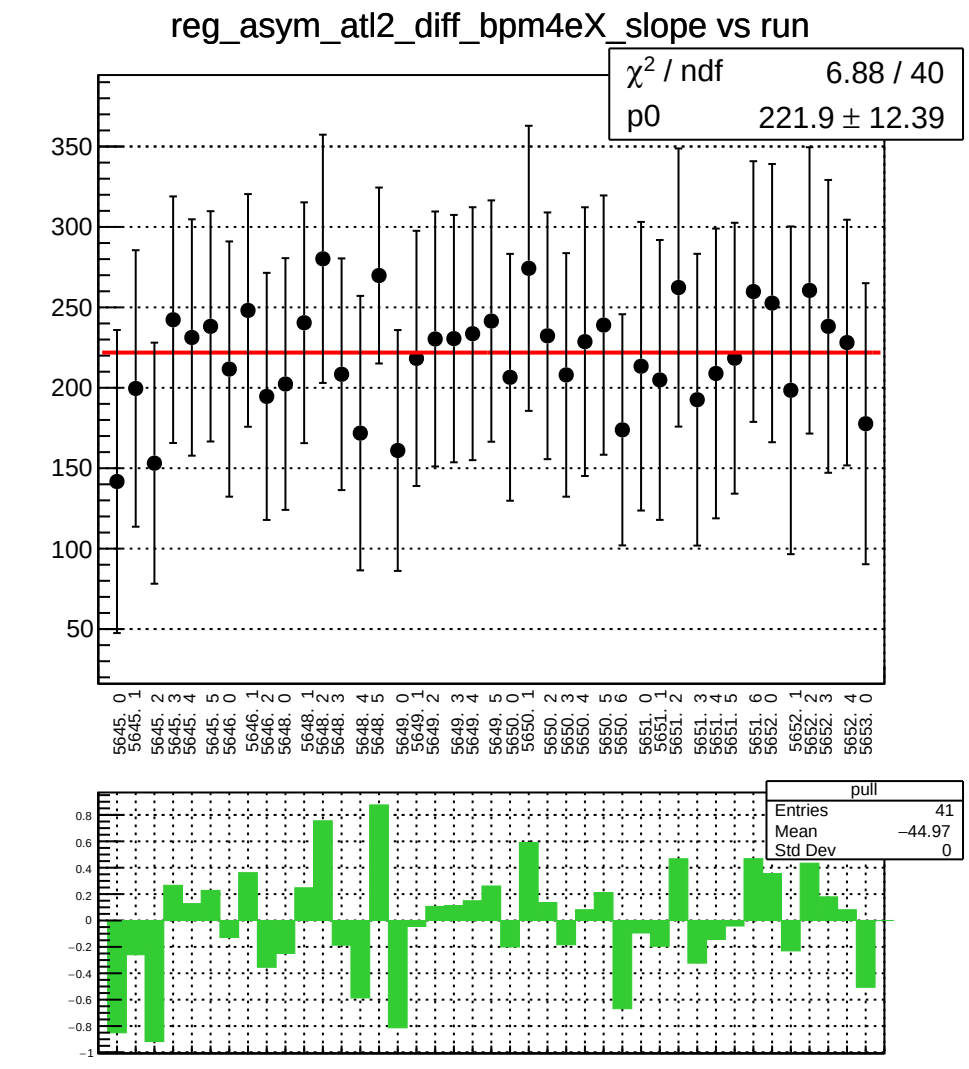

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 102.3 / 40
p0 −31.12 ± 0.2419
pull
Entries 41
Mean 158.5
Std Dev 0

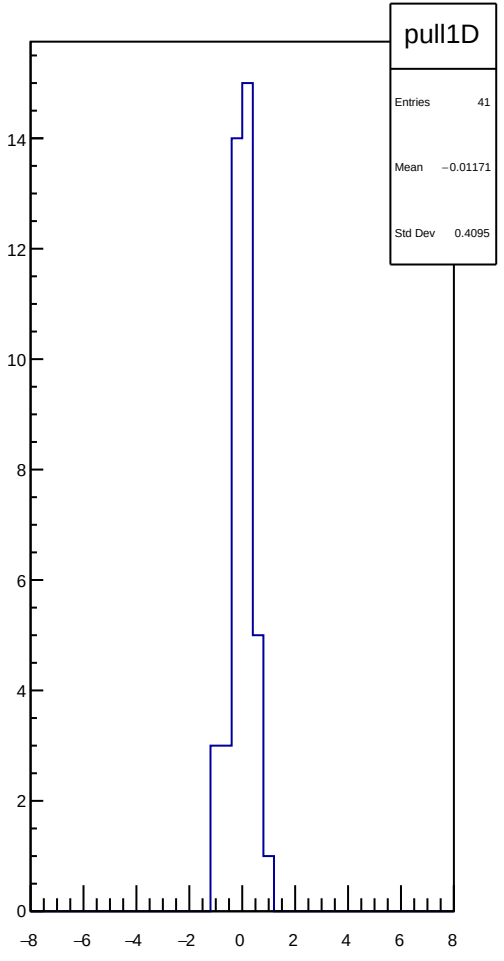

pull1D
Entries 41
Mean −0.0341
Std Dev 1.579

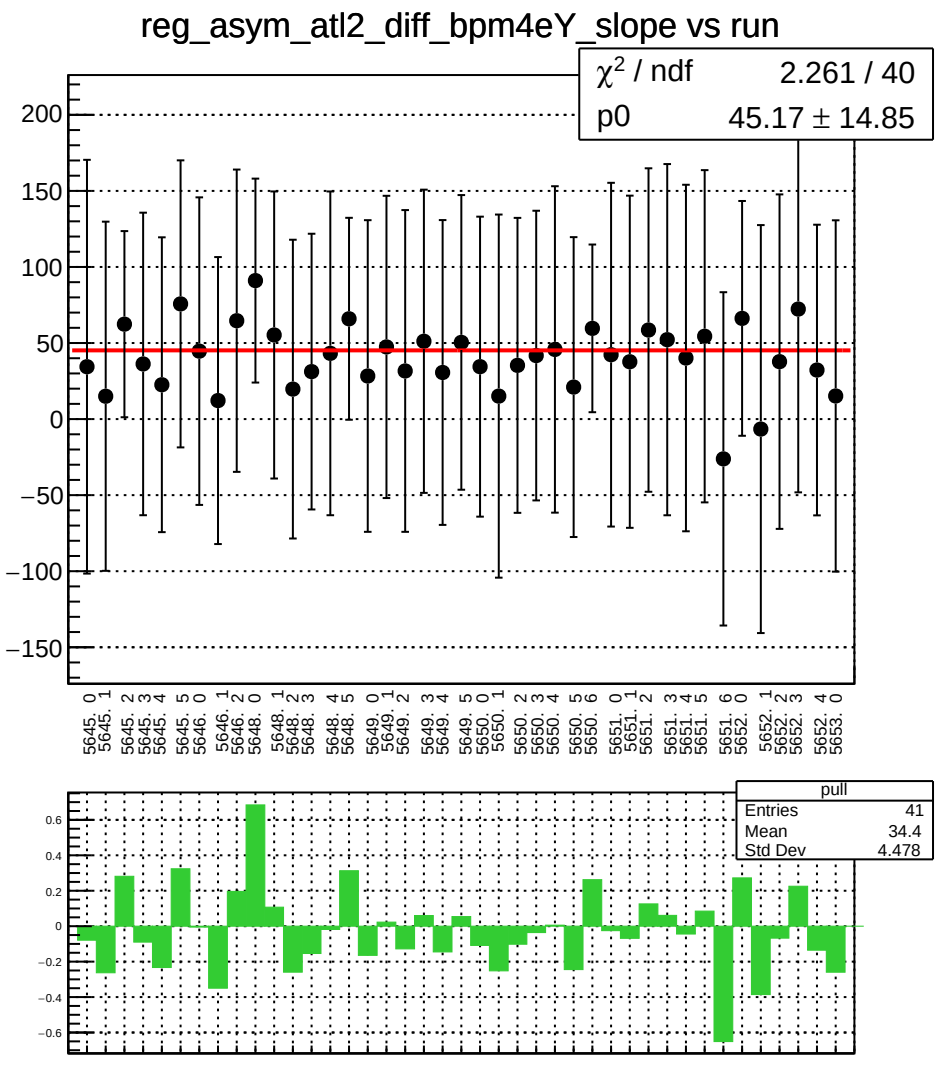

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 6.602 / 40
p0 −296.8 ± 14.35
pull
Entries 41
Mean −52.55
Std Dev 0

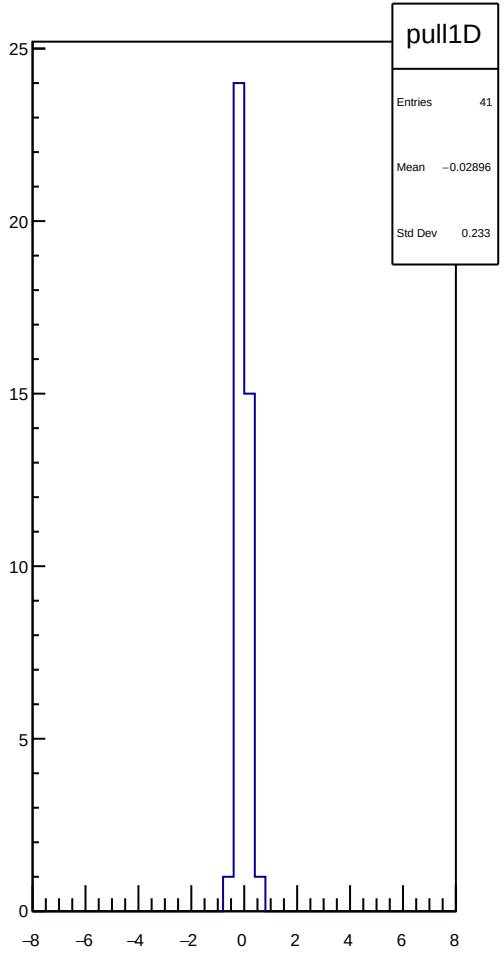

pull1D
Entries 41
Mean 0.01074
Std Dev 0.4011

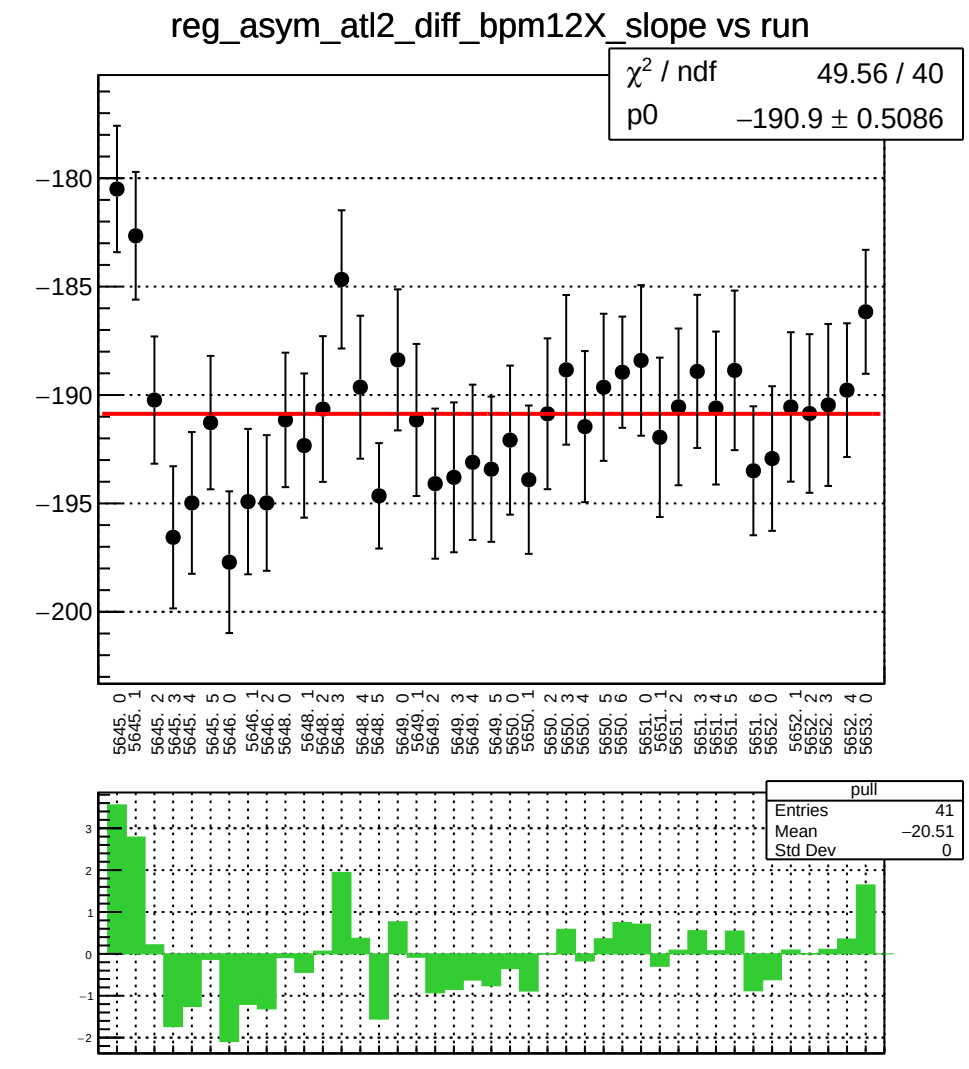

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.21 / 40
p0 41.03 ± 11.8
pull
Entries 41
Mean 27.62
Std Dev 13.55
pull1D
Entries 41
Mean 0.02888
Std Dev 0.2304

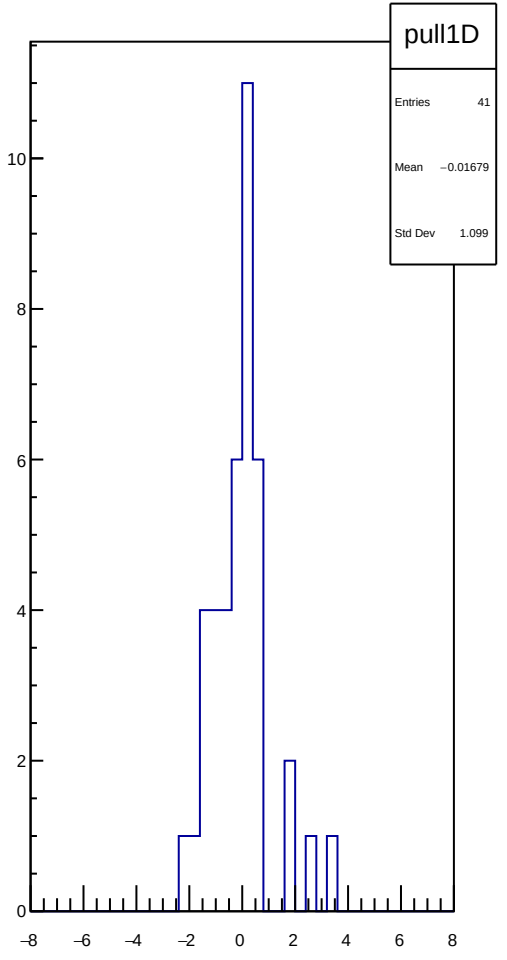

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 6.88 / 40
p0 221.9 ± 12.39
pull
Entries 41
Mean −44.97
Std Dev 0

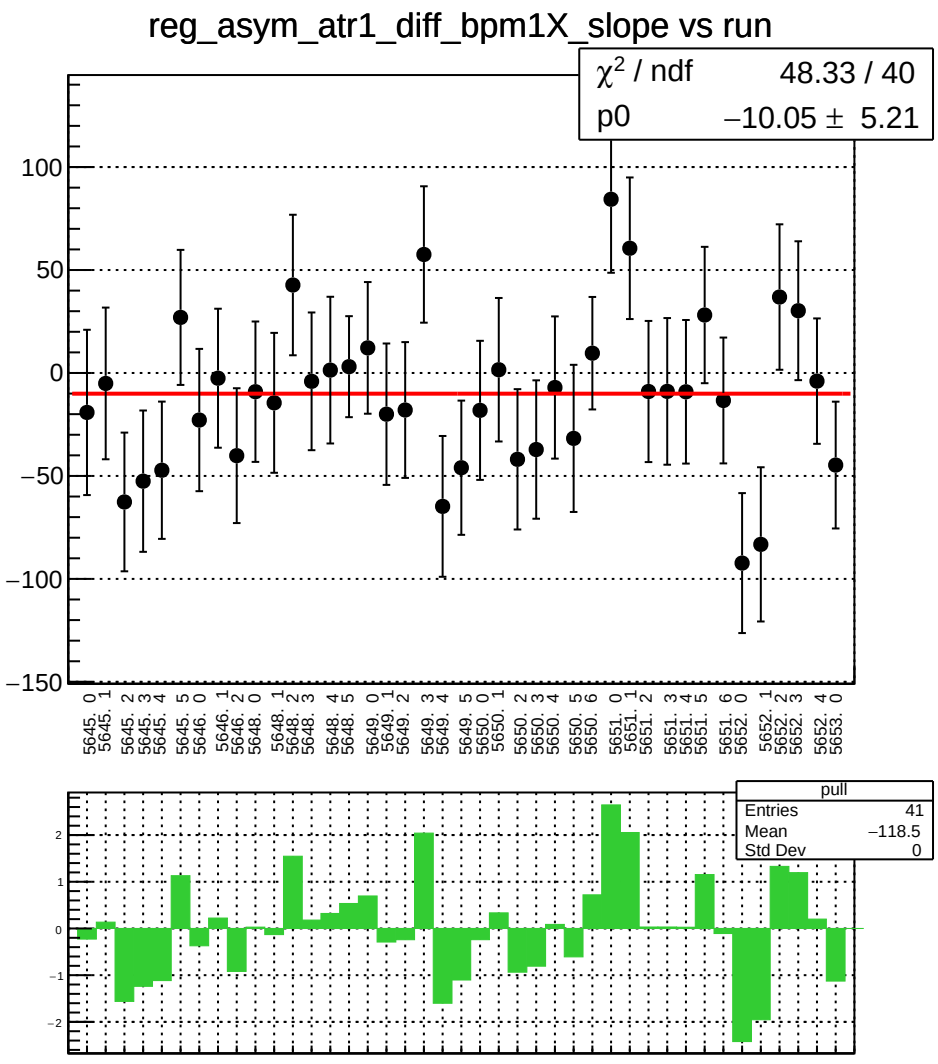

pull1D
Entries 41
Mean −0.01171
Std Dev 0.4095

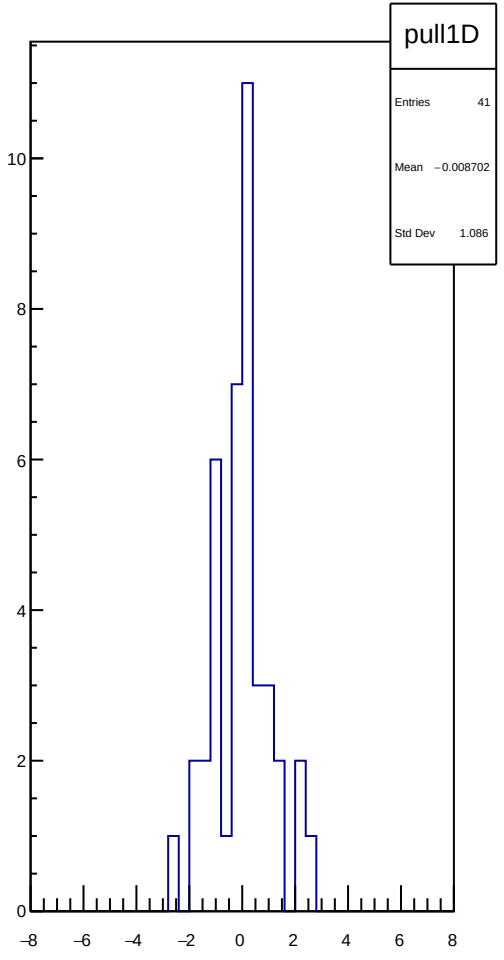

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.261 / 40
p0 45.17 ± 14.85
pull
Entries 41
Mean 34.4
Std Dev 4.478

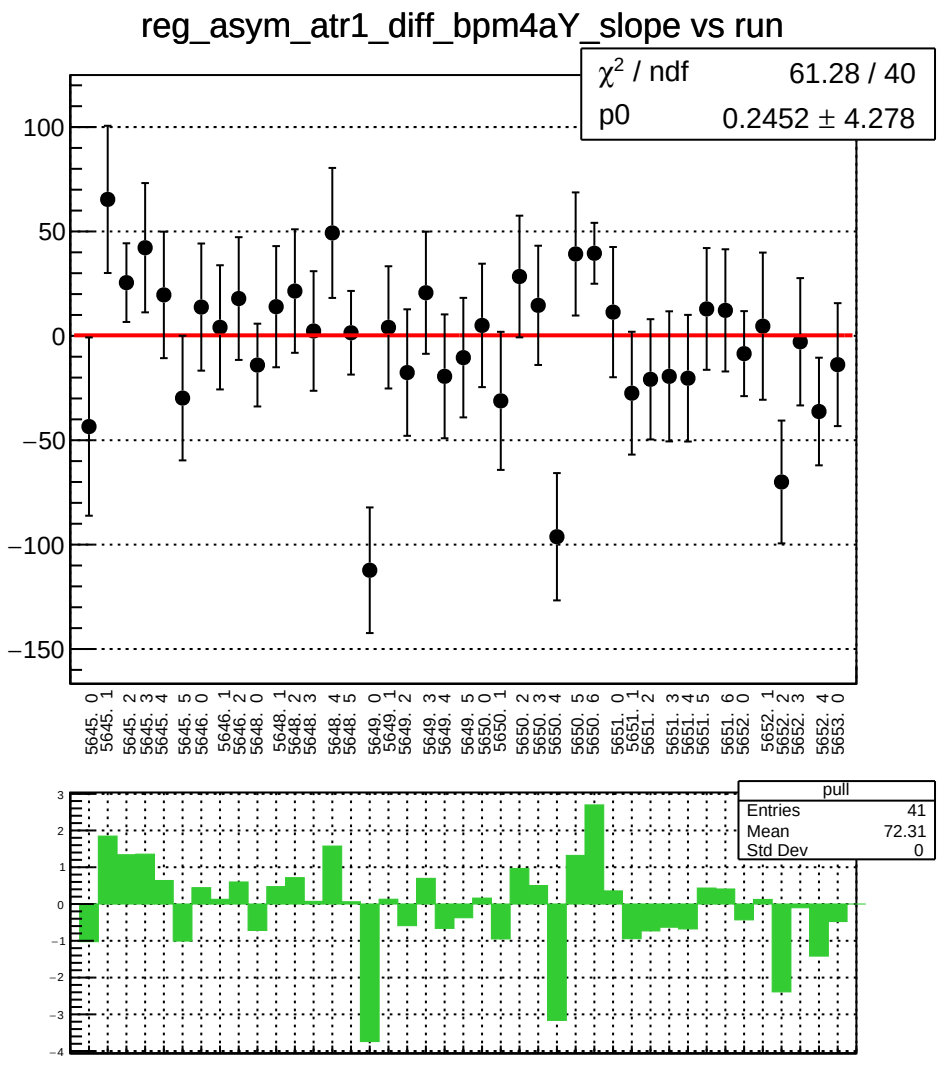

pull1D
Entries 41
Mean −0.02896
Std Dev 0.233

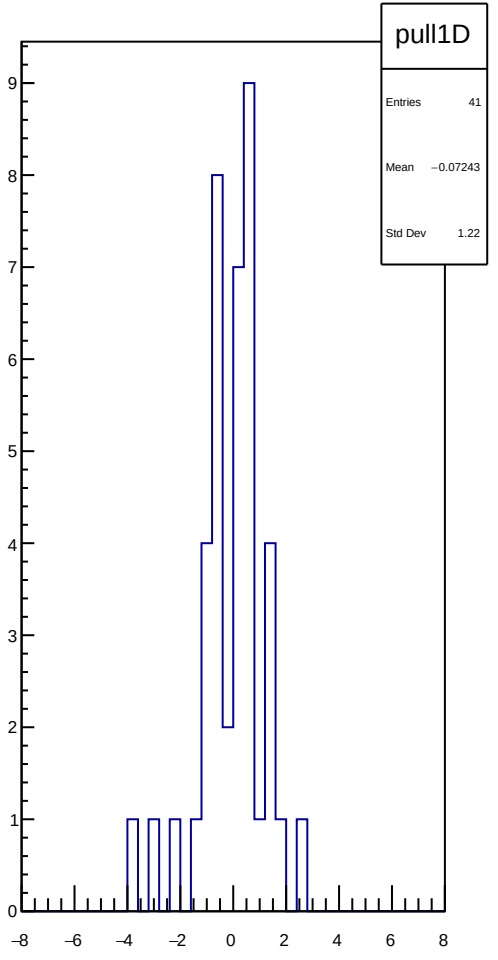

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 49.56 / 40
p0 −190.9 ± 0.5086
−180
−185
−190
−195
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −20.51
Std Dev 0
3
2
1
0
−1
−2

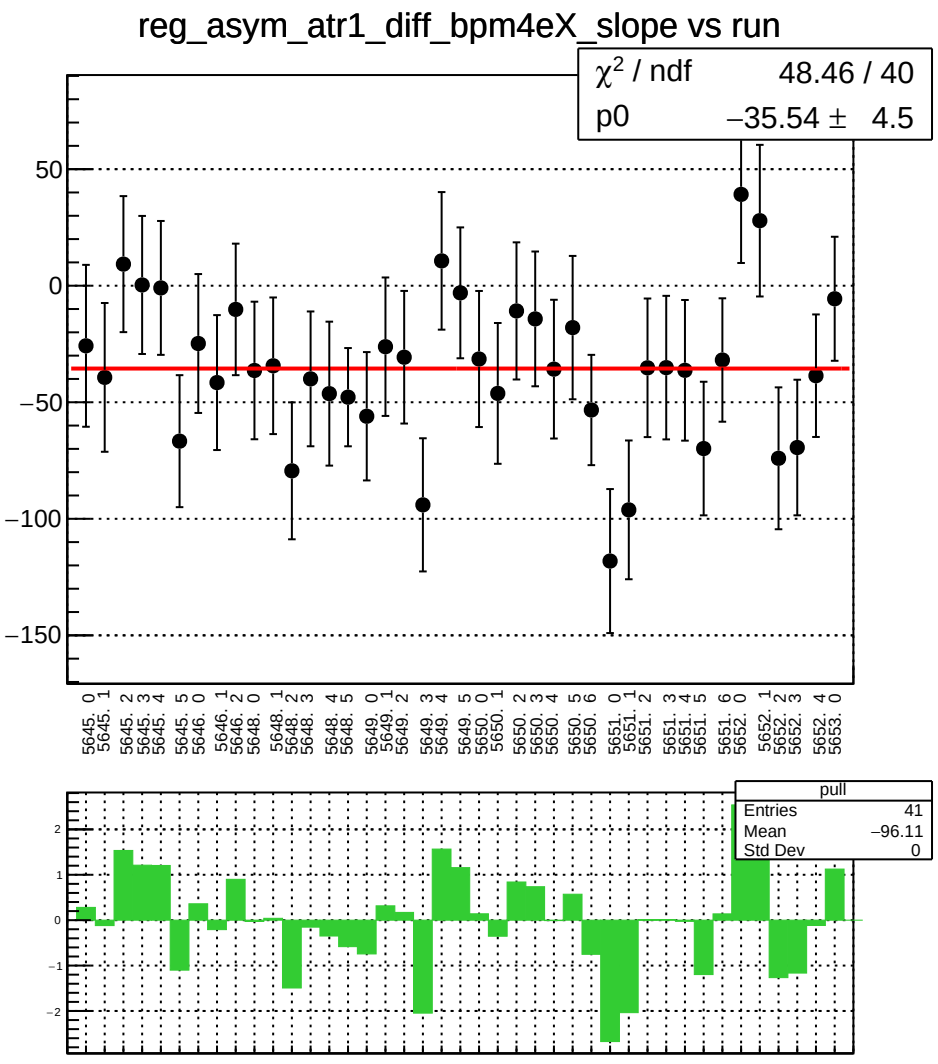

pull1D
Entries 41
Mean −0.01679
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

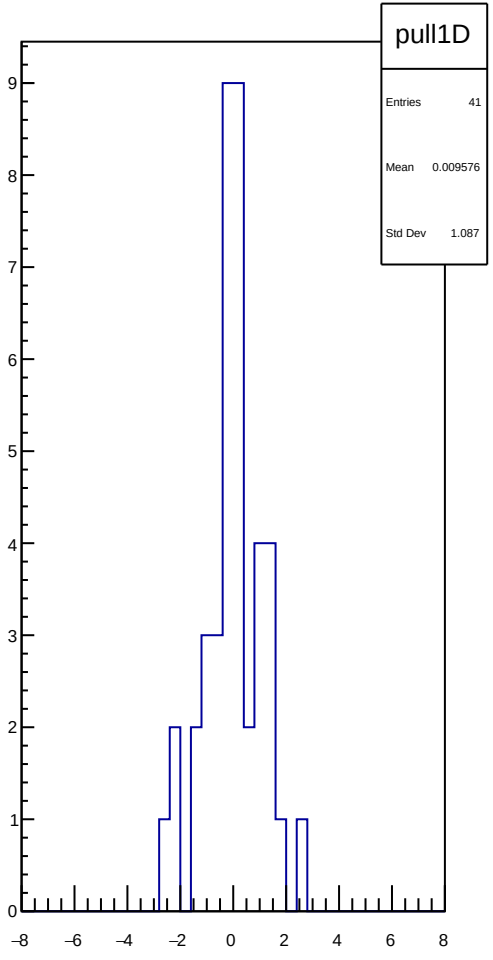

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 48.33 / 40
p0 −10.05 ± 5.21
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −118.5
Std Dev 0
2
1
0
−1
−2

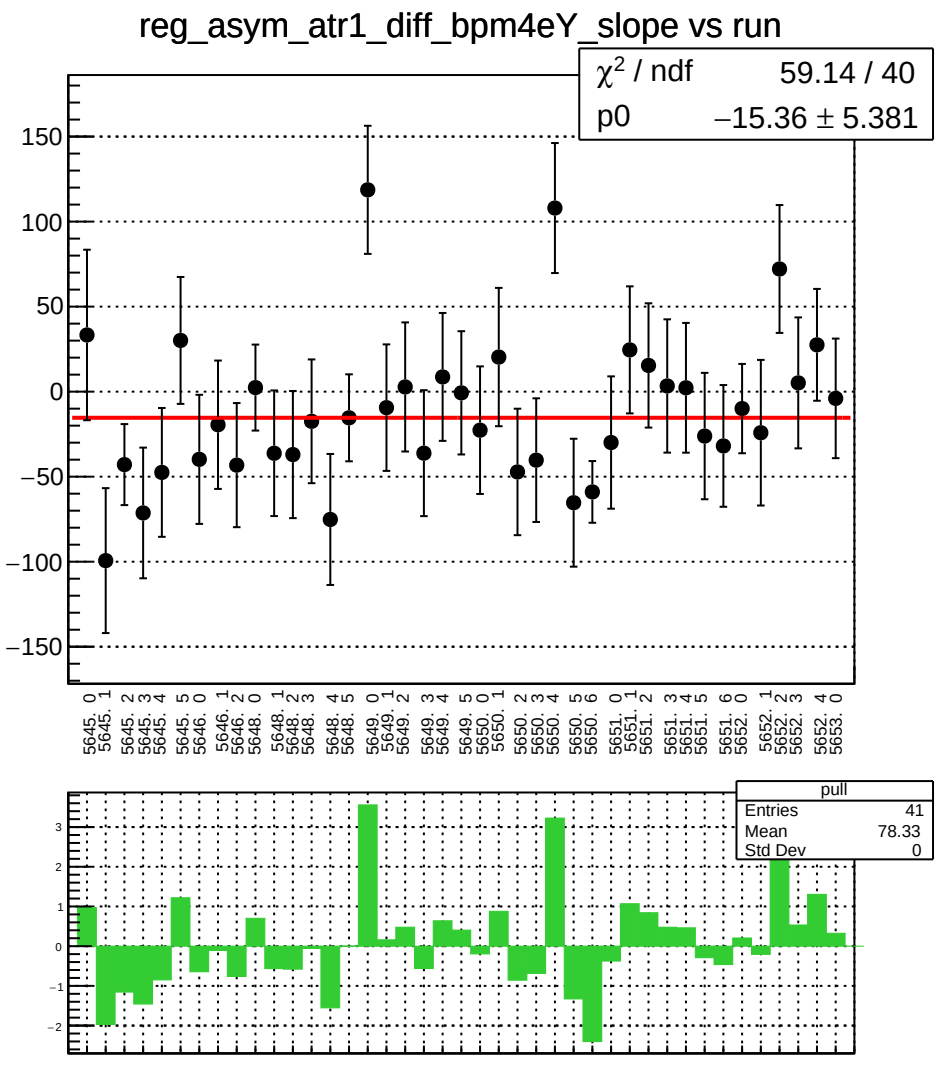

pull1D
Entries 41
Mean −0.008702
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

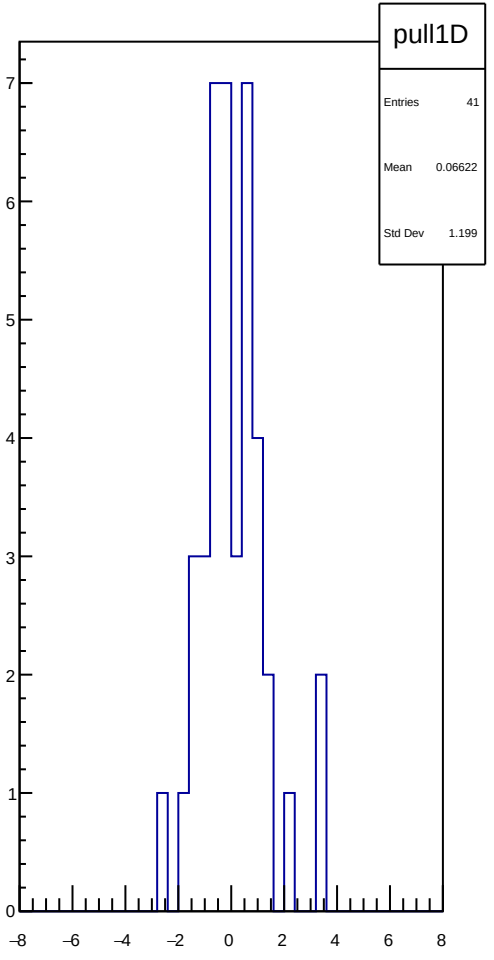

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 61.28 / 40
p0 0.2452 ± 4.278
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 72.31
Std Dev 0
3
2
1
0
−1
−2
−3
−4

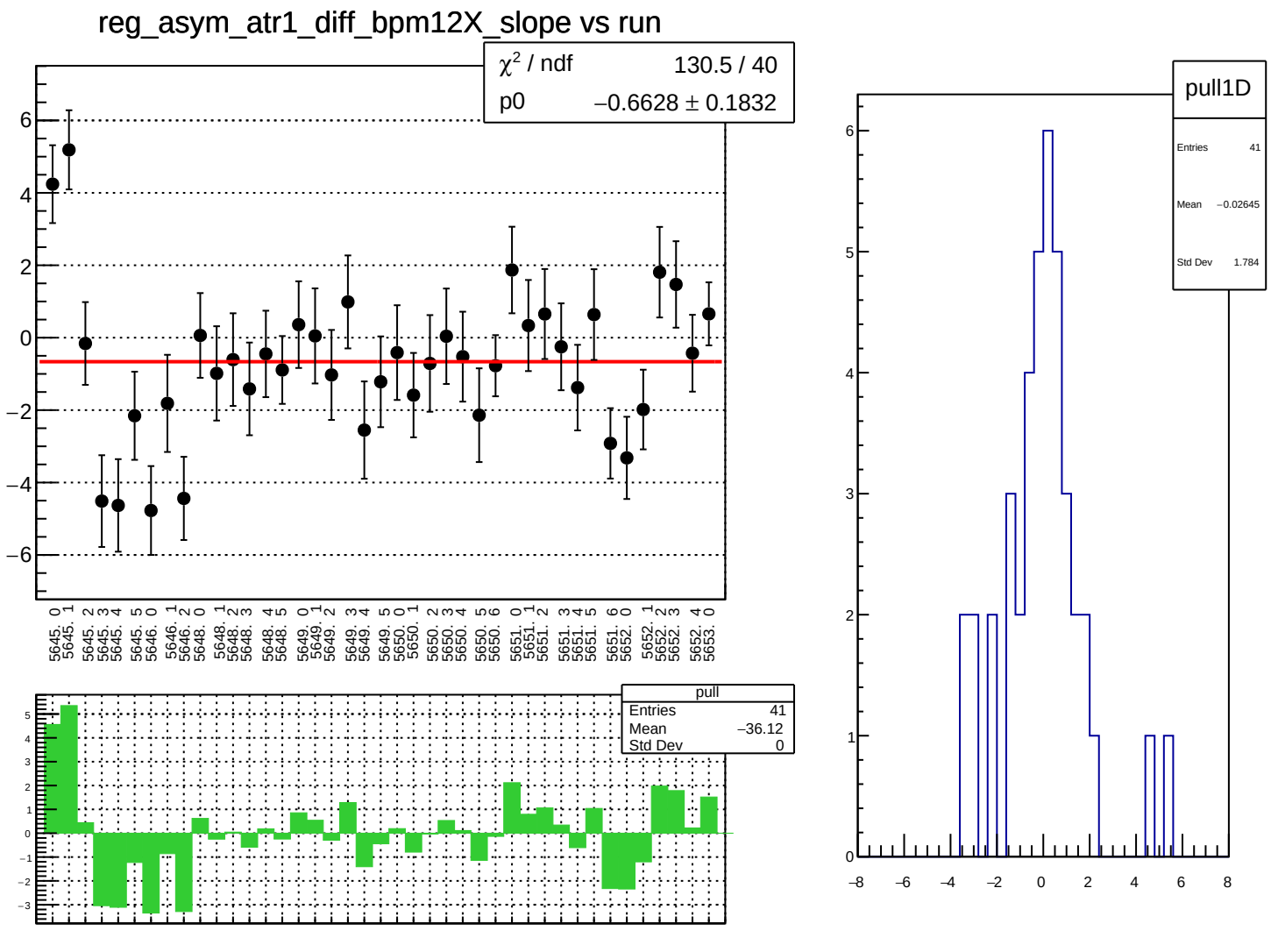

pull1D
Entries 41
Mean −0.07243
Std Dev 1.22
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

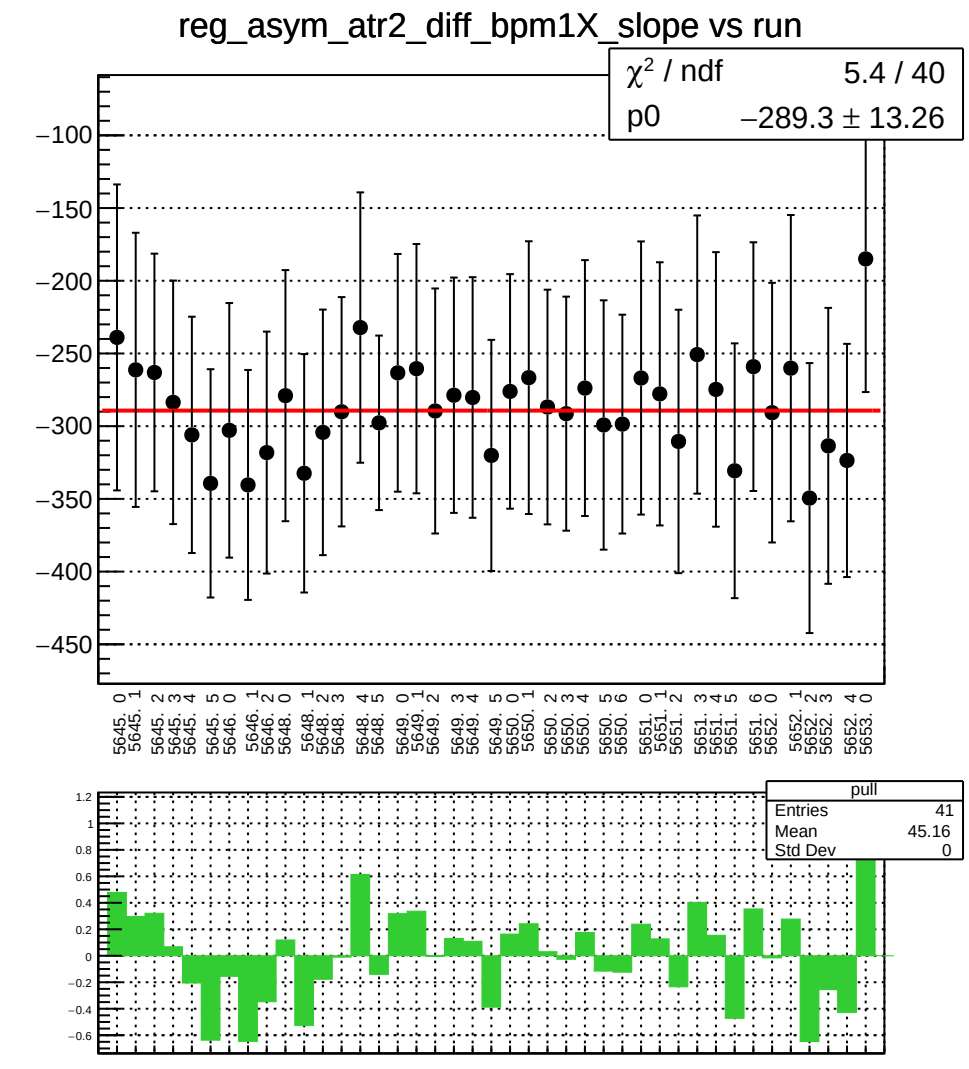

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 48.46 / 40
p0 −35.54 ± 4.5
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −96.11
Std Dev 0
2
1
0
−1
−2

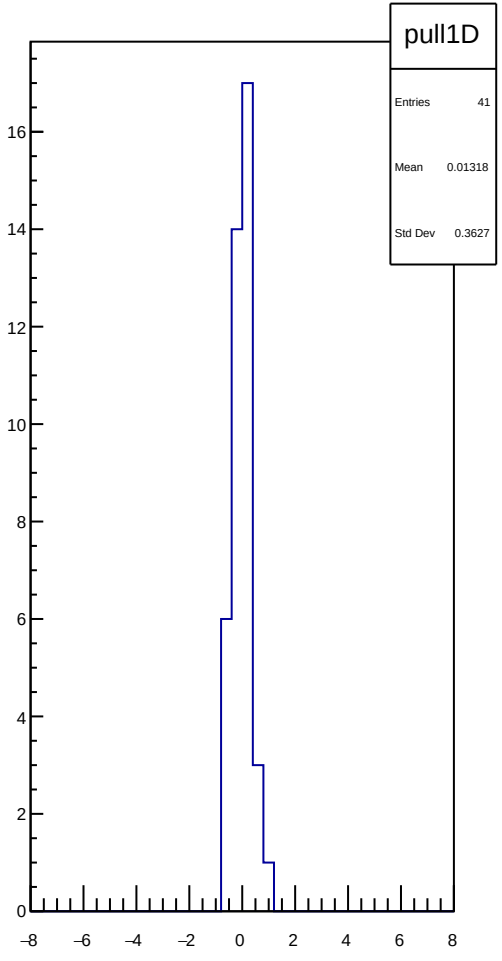

pull1D
Entries 41
Mean 0.009576
Std Dev 1.087
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

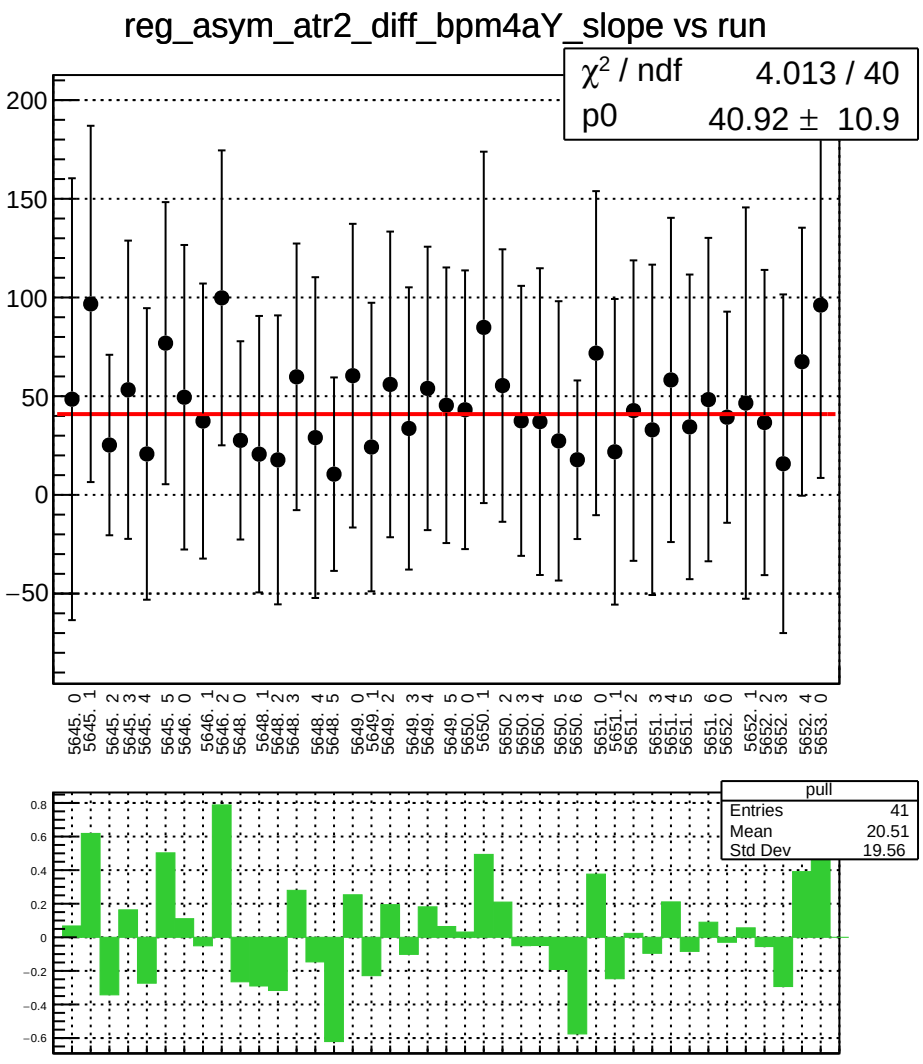

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 59.14 / 40
p0 −15.36 ± 5.381
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 78.33
Std Dev 0
3
2
1
0
−1
−2

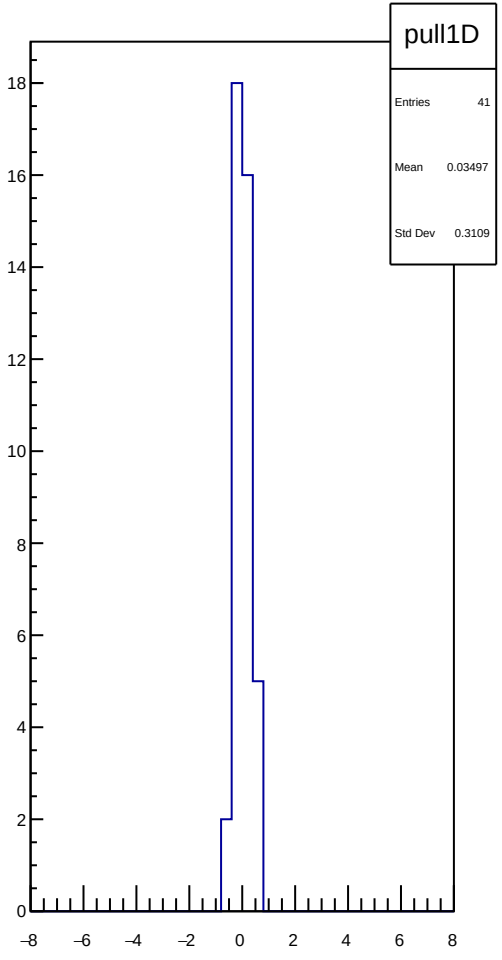

pull1D
Entries 41
Mean 0.06622
Std Dev 1.199
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

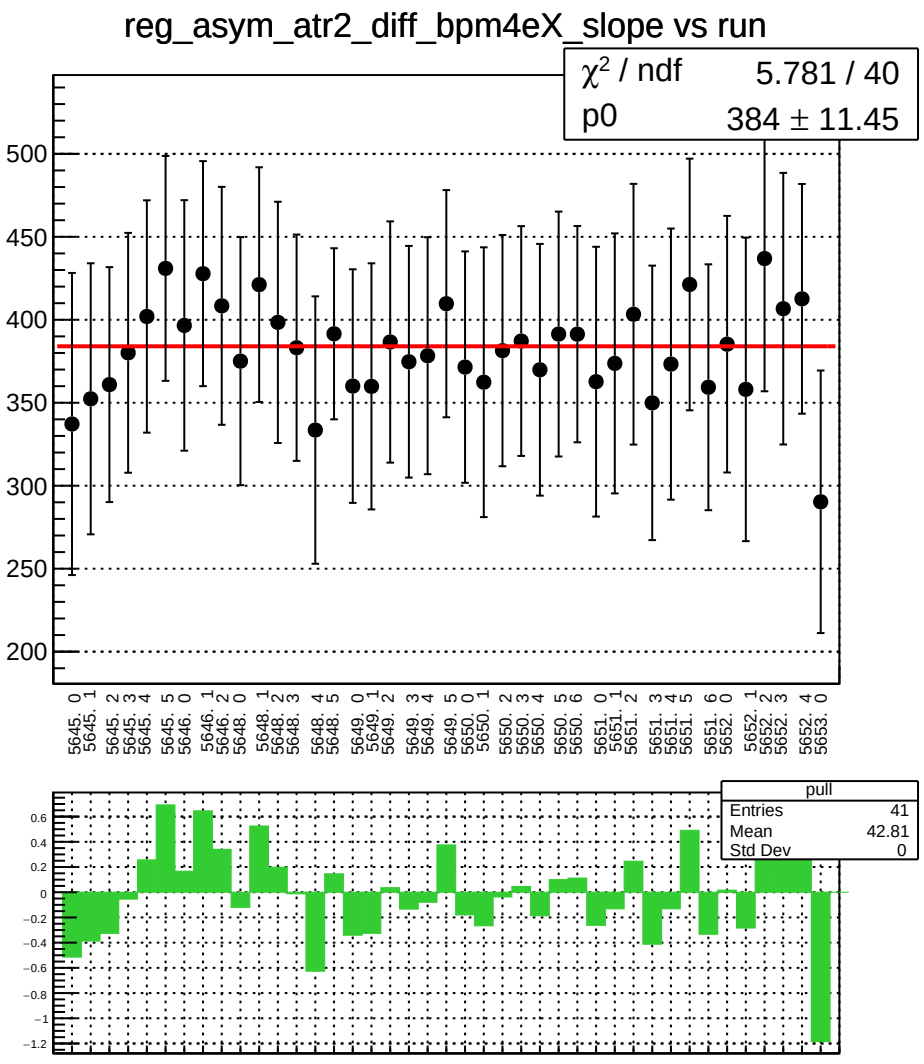

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 130.5 / 40
p0 −0.6628 ± 0.1832
pull
Entries 41
Mean −36.12
Std Dev 0
pull1D
Entries 41
Mean −0.02645
Std Dev 1.784

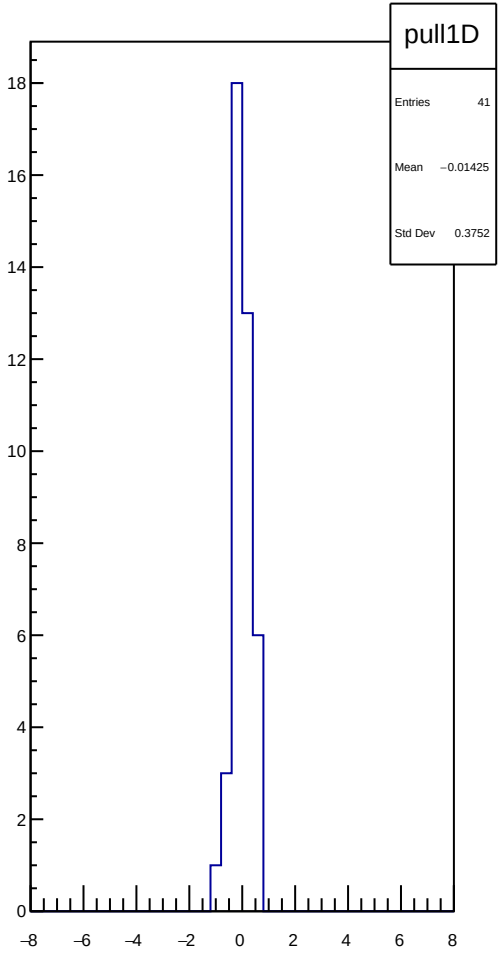

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.4 / 40
p0 −289.3 ± 13.26
pull
Entries 41
Mean 45.16
Std Dev 0

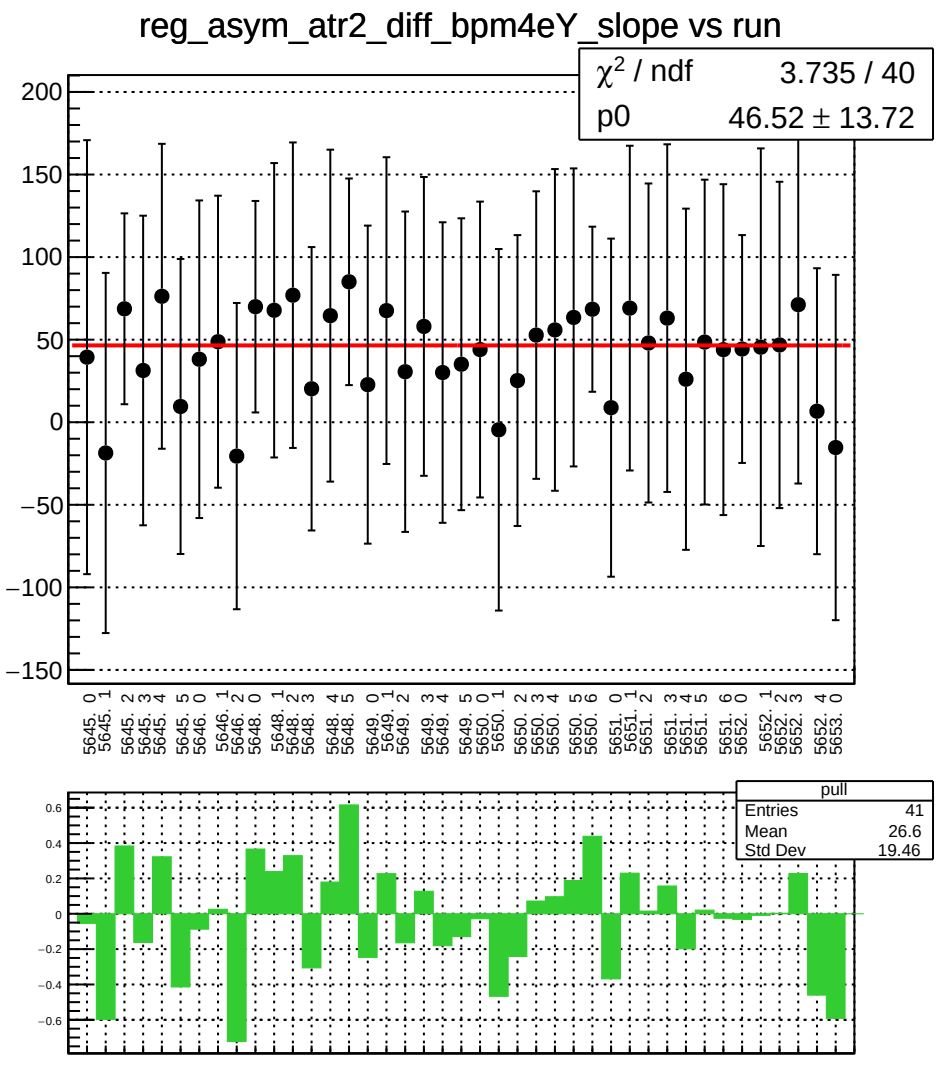

pull1D
Entries 41
Mean 0.01318
Std Dev 0.3627

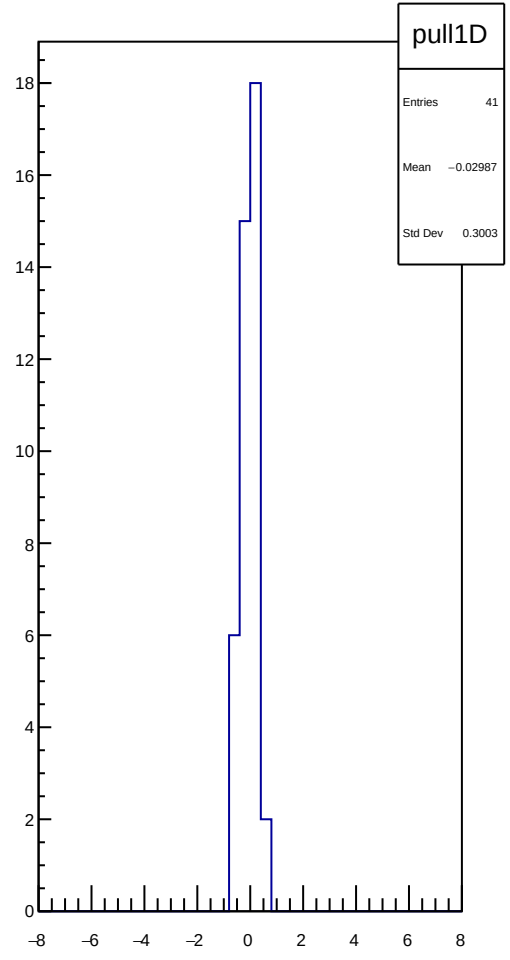

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.013 / 40
p0 40.92 ± 10.9
pull
Entries 41
Mean 20.51
Std Dev 19.56

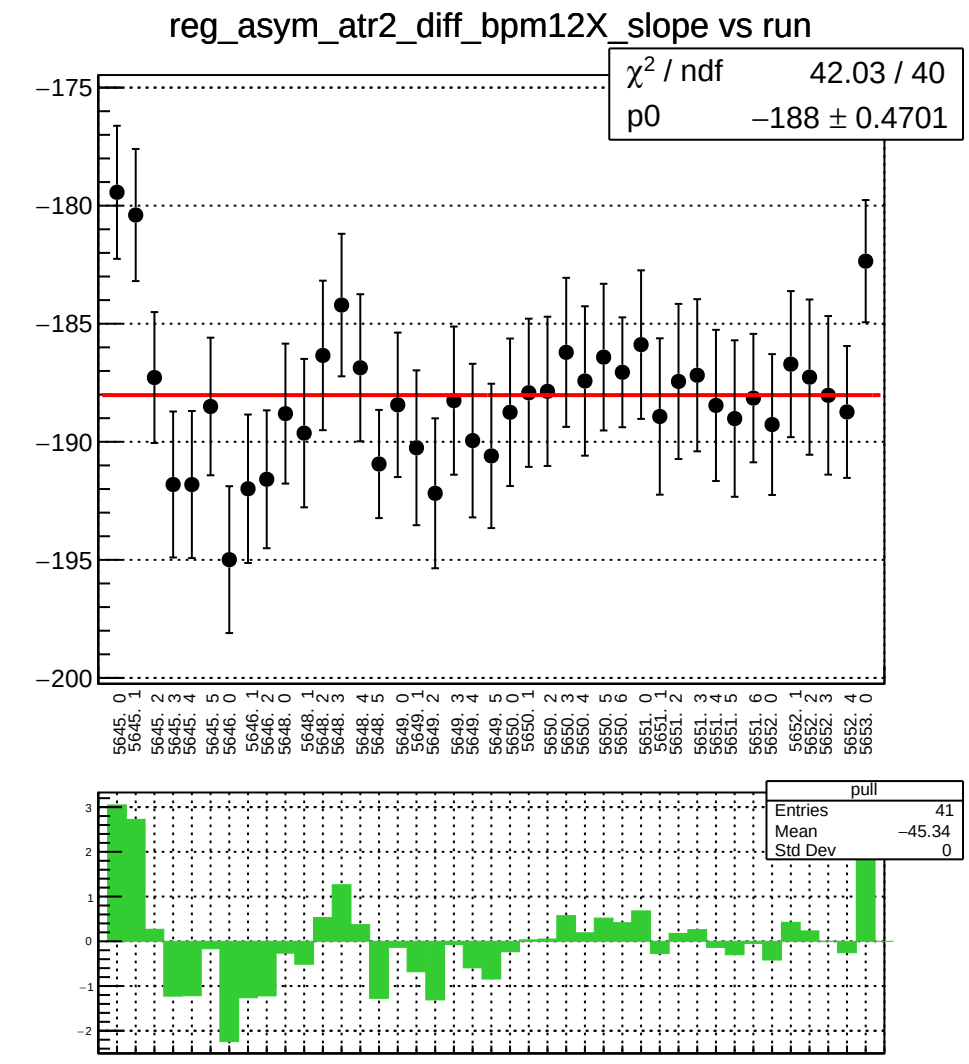

pull1D
Entries 41
Mean 0.03497
Std Dev 0.3109

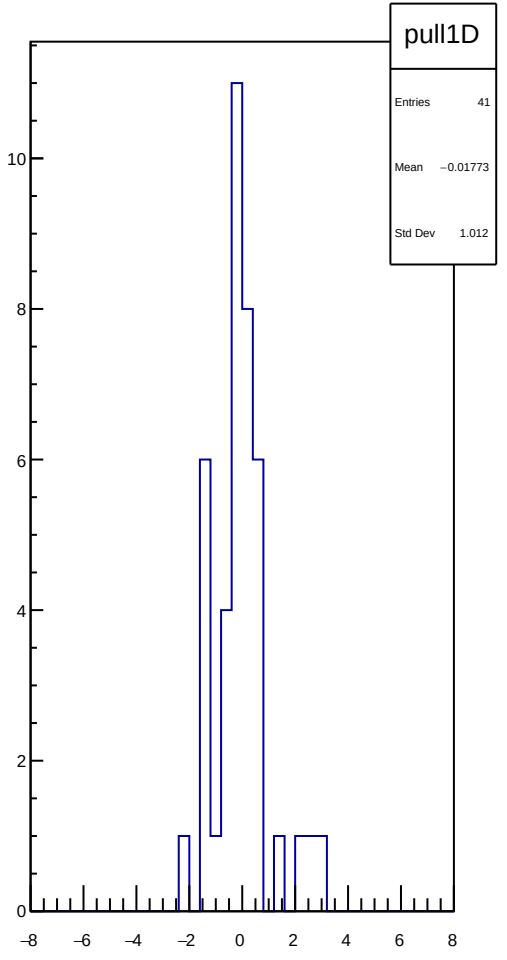

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 5.781 / 40
p0 384 ± 11.45
pull
Entries 41
Mean 42.81
Std Dev 0

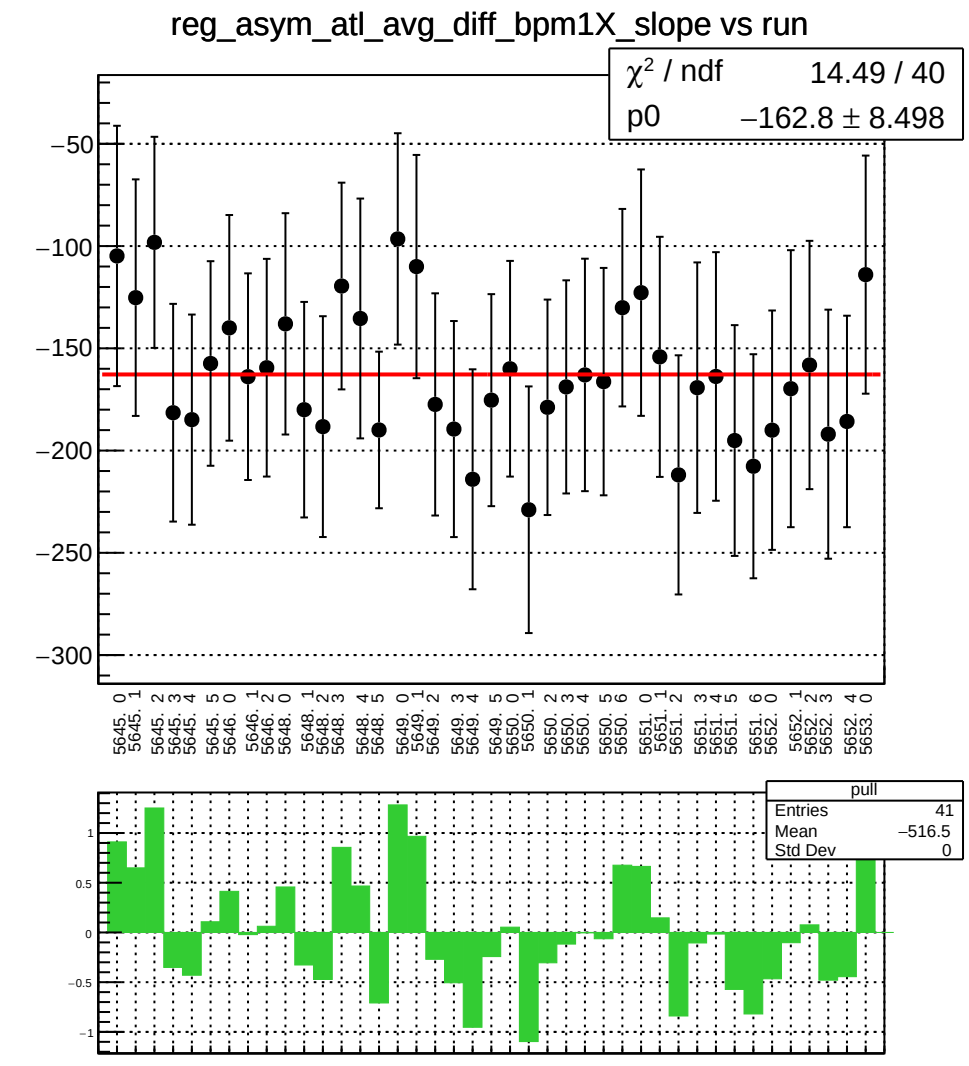

pull1D
Entries 41
Mean −0.01425
Std Dev 0.3752

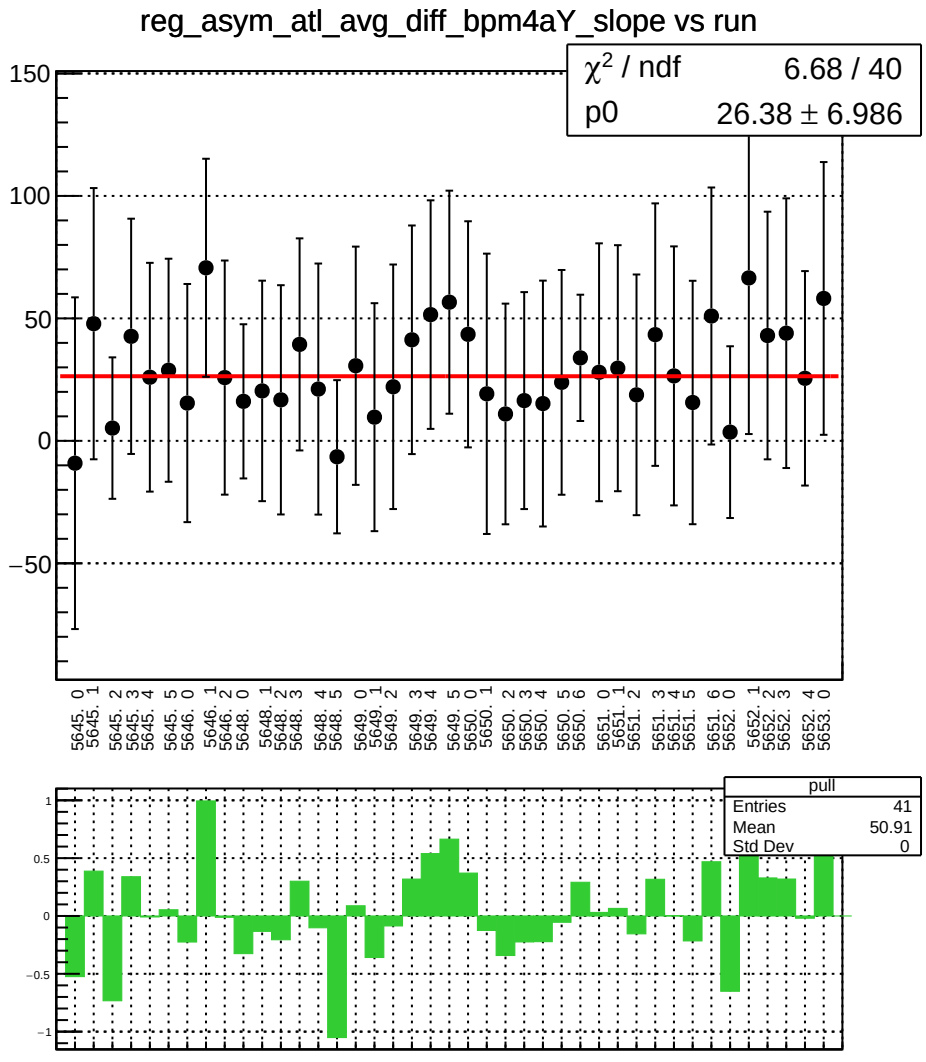

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.735 / 40
p0 46.52 ± 13.72
pull
Entries 41
Mean 26.6
Std Dev 19.46

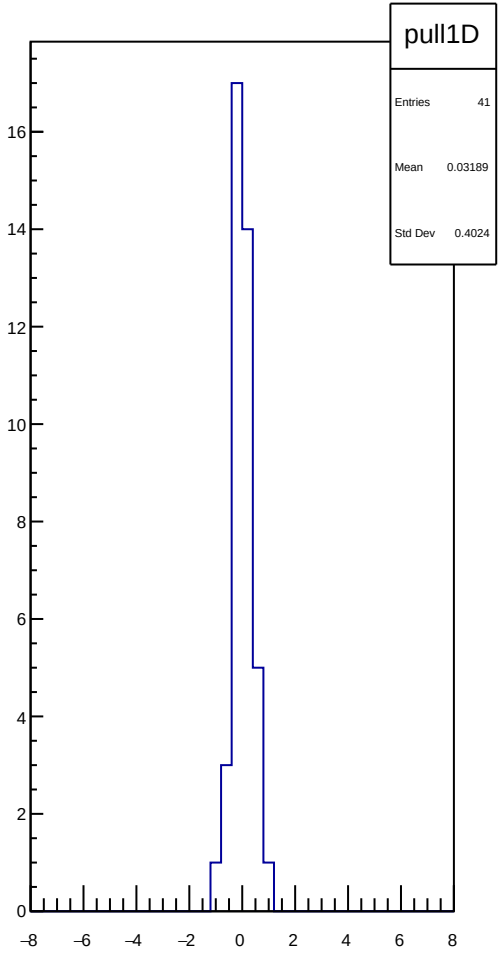

pull1D
Entries 41
Mean −0.02987
Std Dev 0.3003

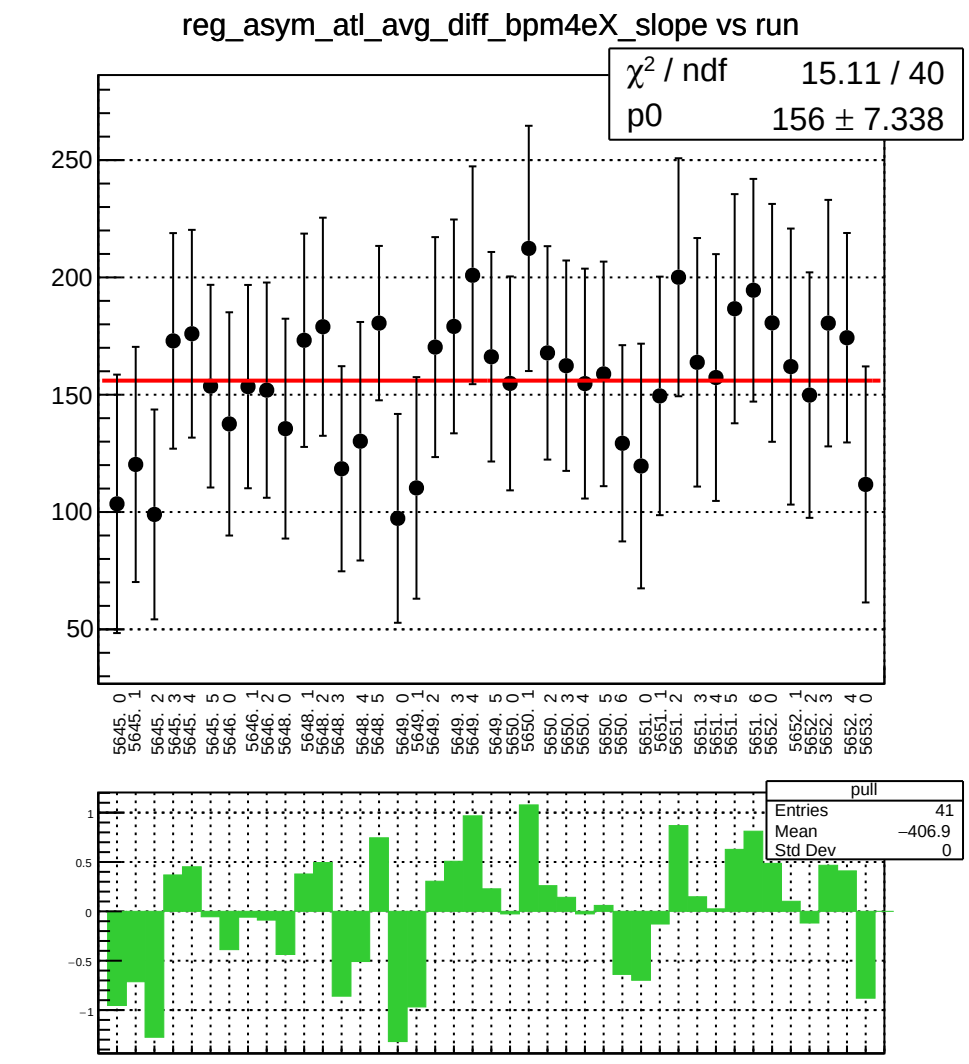

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 42.03 / 40
p0 −188 ± 0.4701
−175
−180
−185
−190
−195
−200
pull
Entries 41
Mean −45.34
Std Dev 0
3
2
1
0
−1
−2

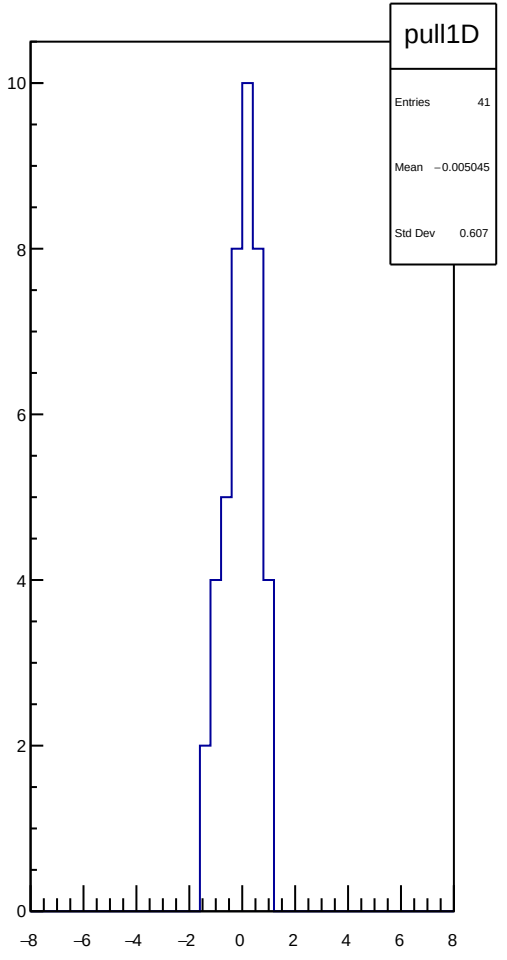

pull1D
Entries 41
Mean −0.01773
Std Dev 1.012
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

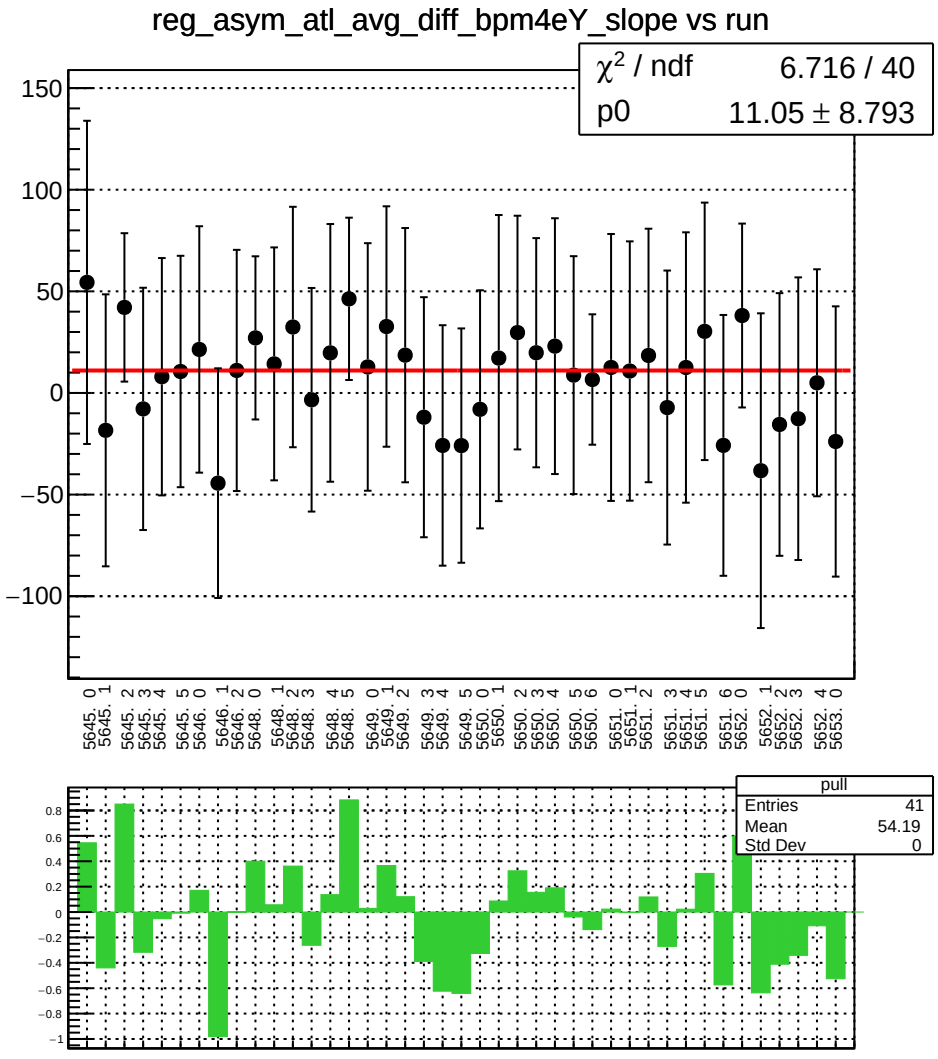

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 14.49 / 40
p0 −162.8 ± 8.498
pull
Entries 41
Mean −516.5
Std Dev 0
pull1D
Entries 41
Mean 0.003988
Std Dev 0.5945

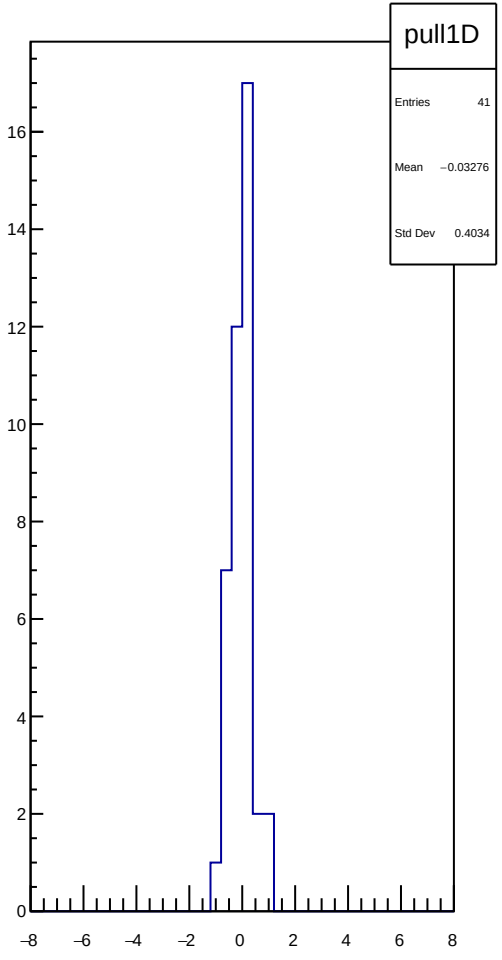

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.68 / 40
p0 26.38 ± 6.986
150
100
50
0
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 50.91
Std Dev 0
1
0.5
0
−0.5
−1

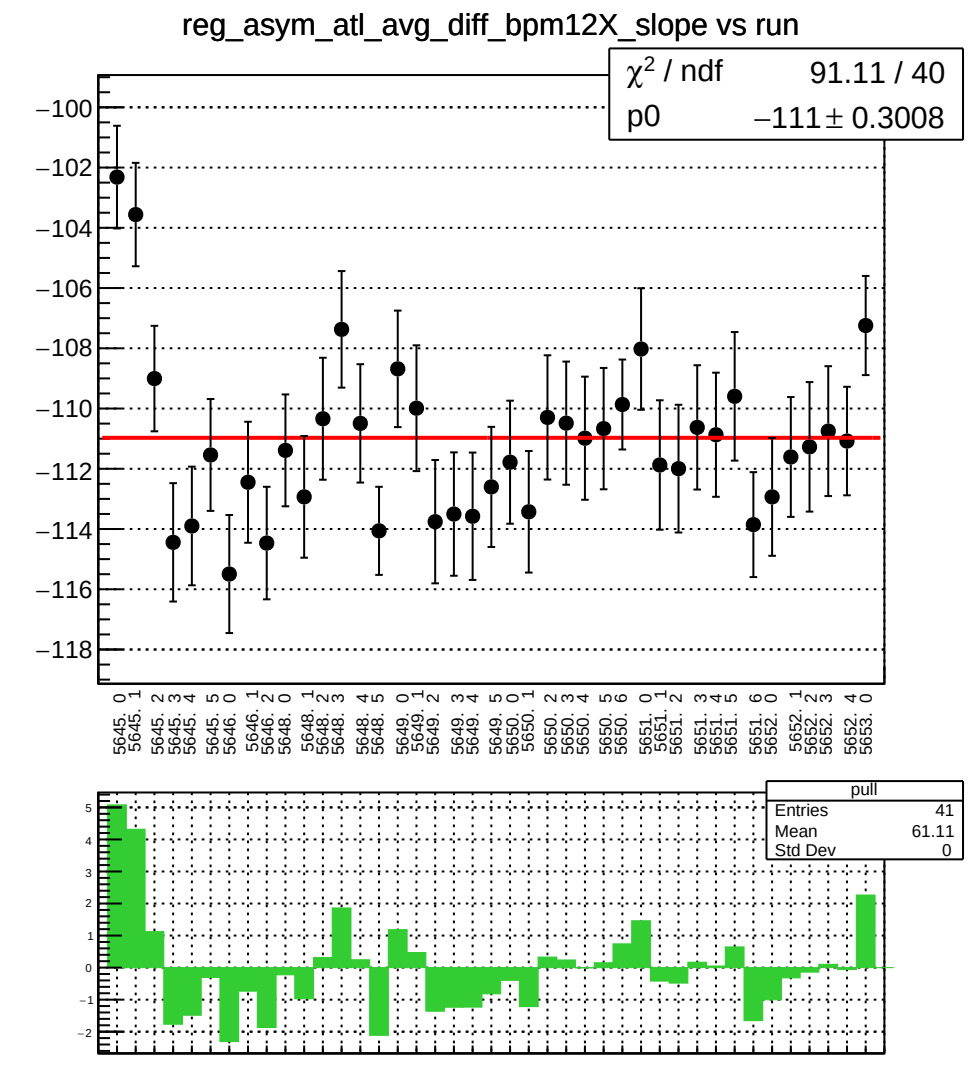

pull1D
Entries 41
Mean 0.03189
Std Dev 0.4024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

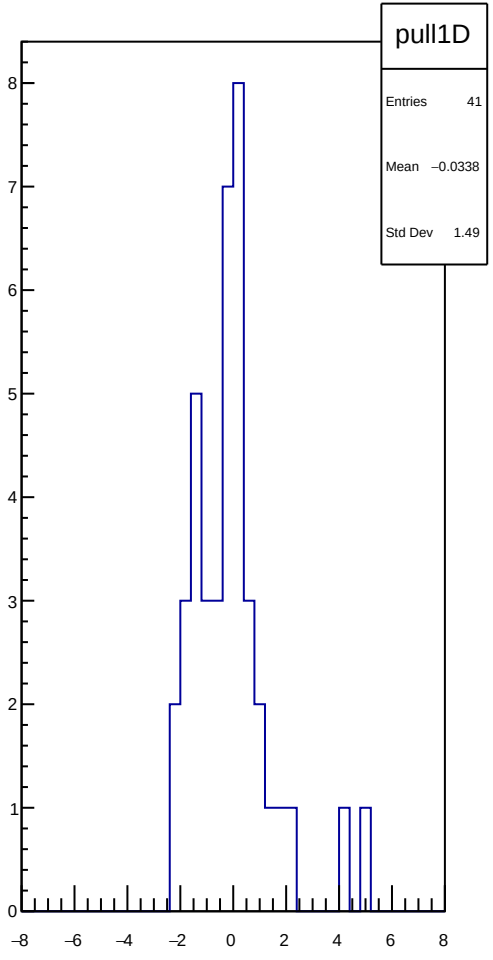

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.11 / 40
p0 156 ± 7.338
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −406.9
Std Dev 0
1
0.5
0
−0.5
−1

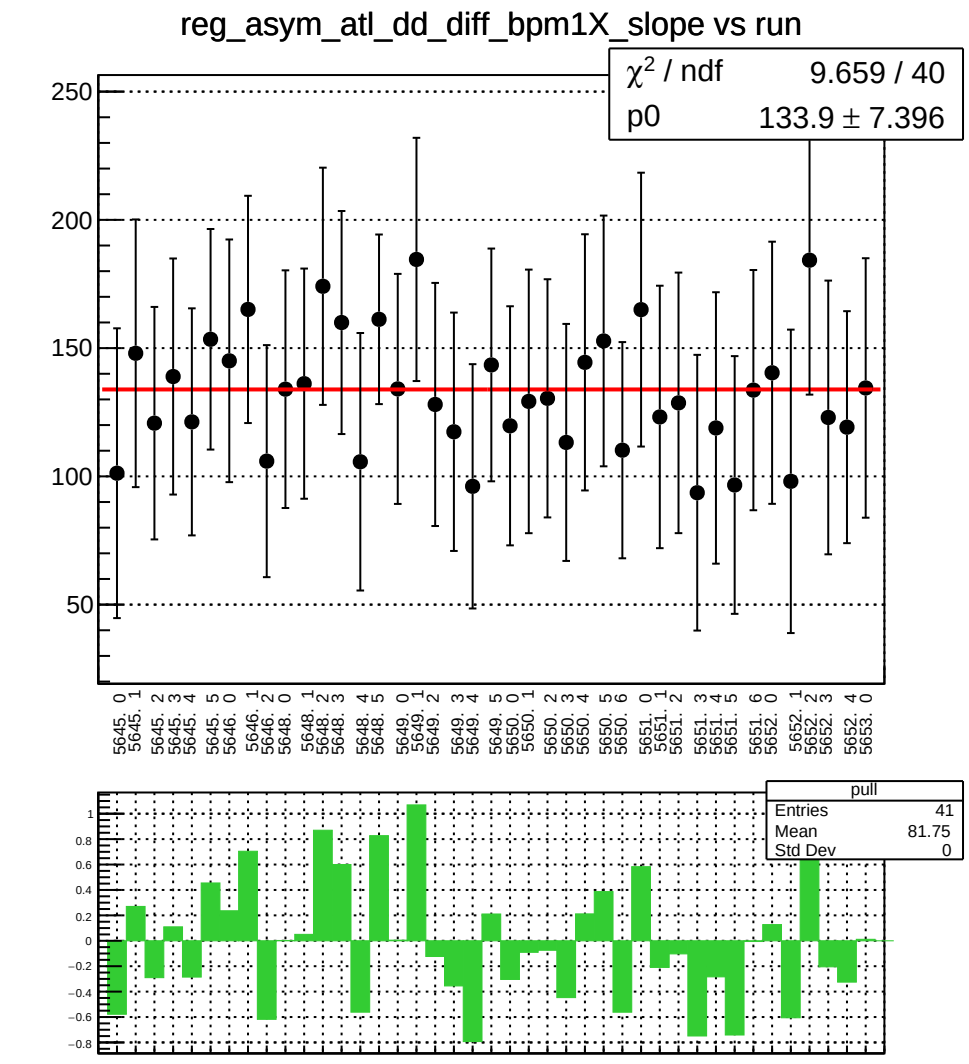

pull1D
Entries 41
Mean −0.005045
Std Dev 0.607
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

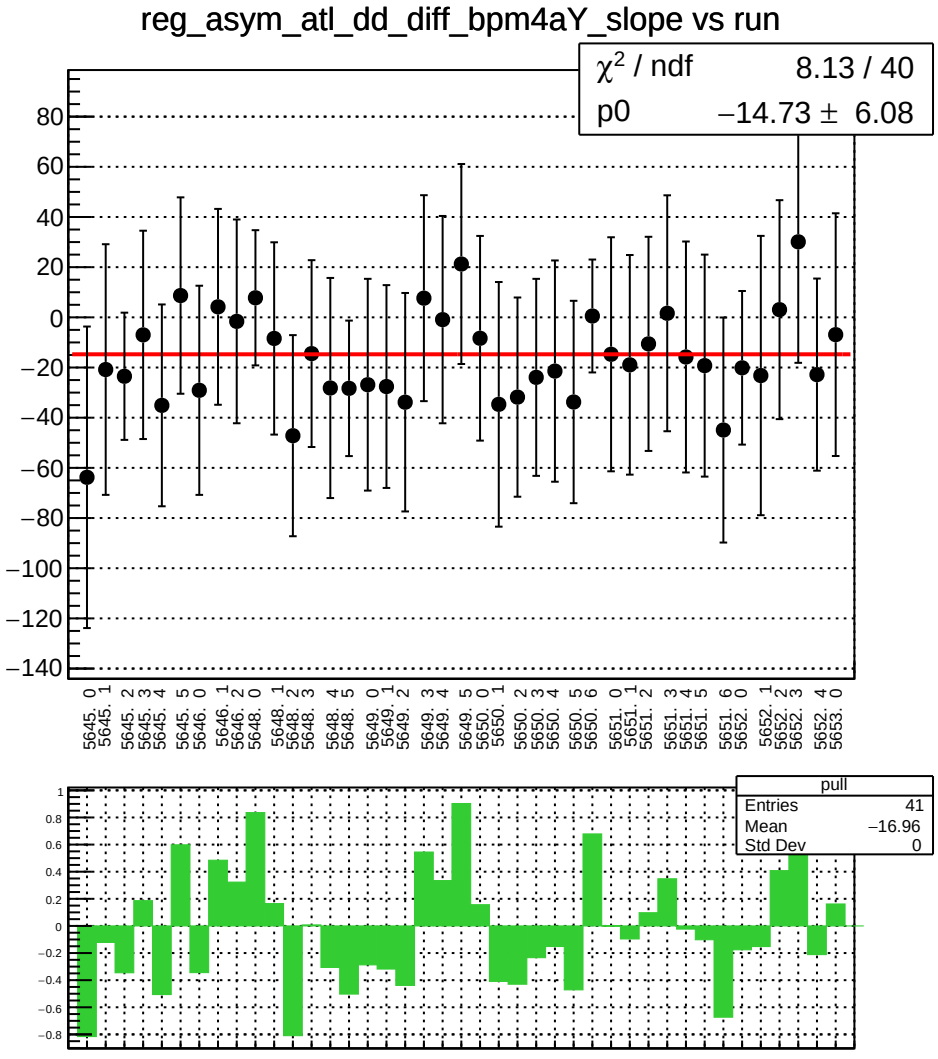

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.716 / 40
p0 11.05 ± 8.793
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 54.19
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

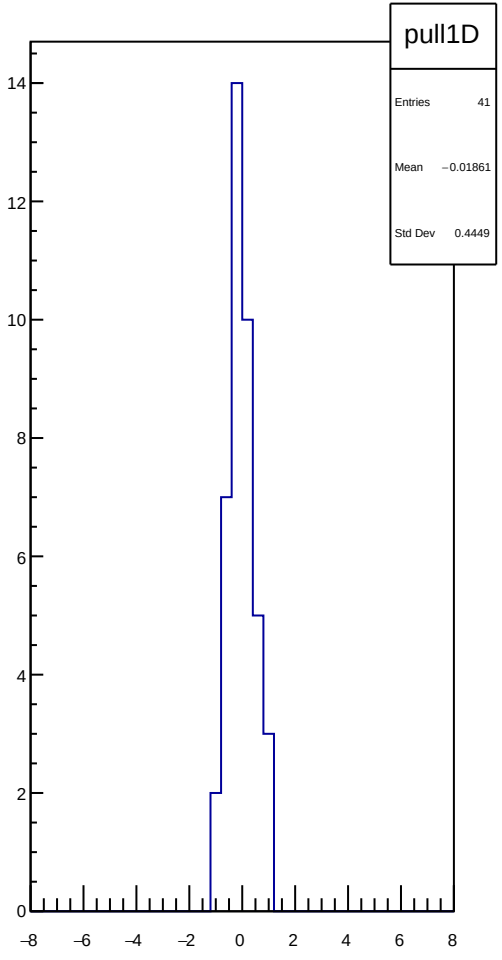

pull1D
Entries 41
Mean −0.03276
Std Dev 0.4034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

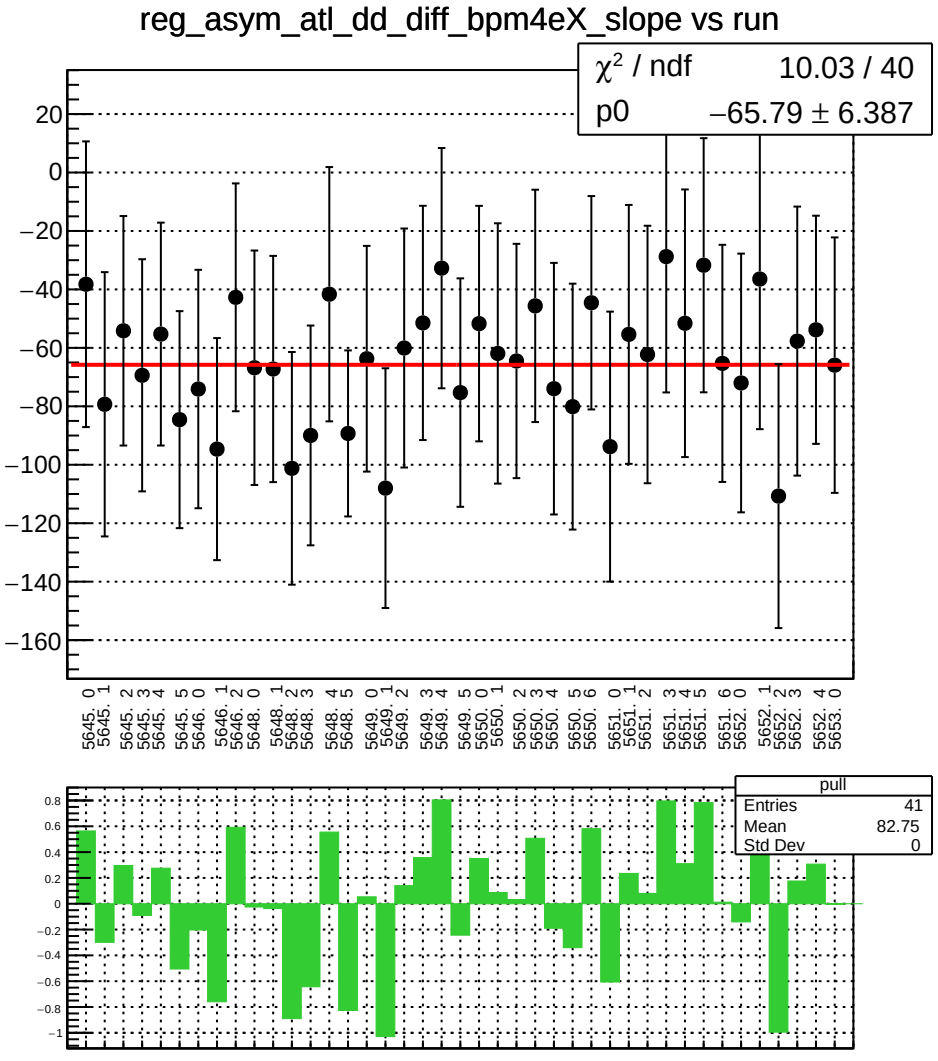

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 91.11 / 40
p0 −111 ± 0.3008
pull
Entries 41
Mean 61.11
Std Dev 0

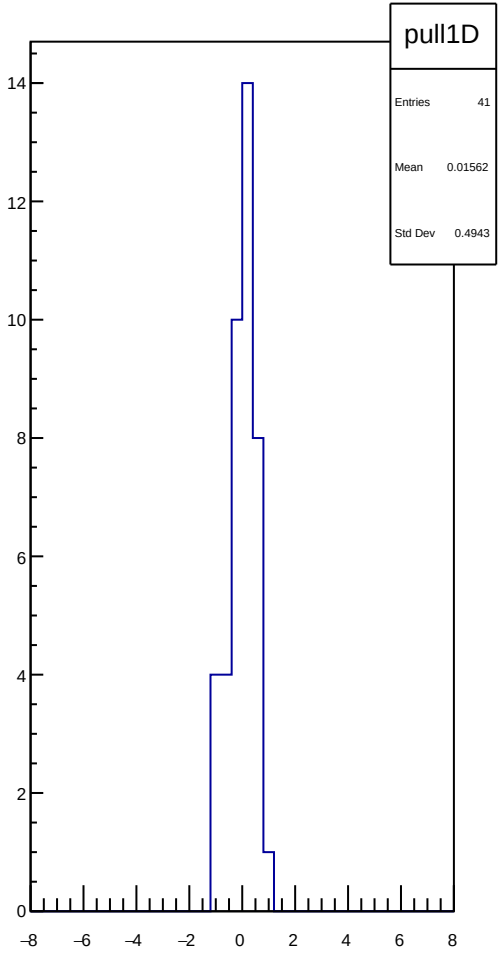

pull1D
Entries 41
Mean −0.0338
Std Dev 1.49

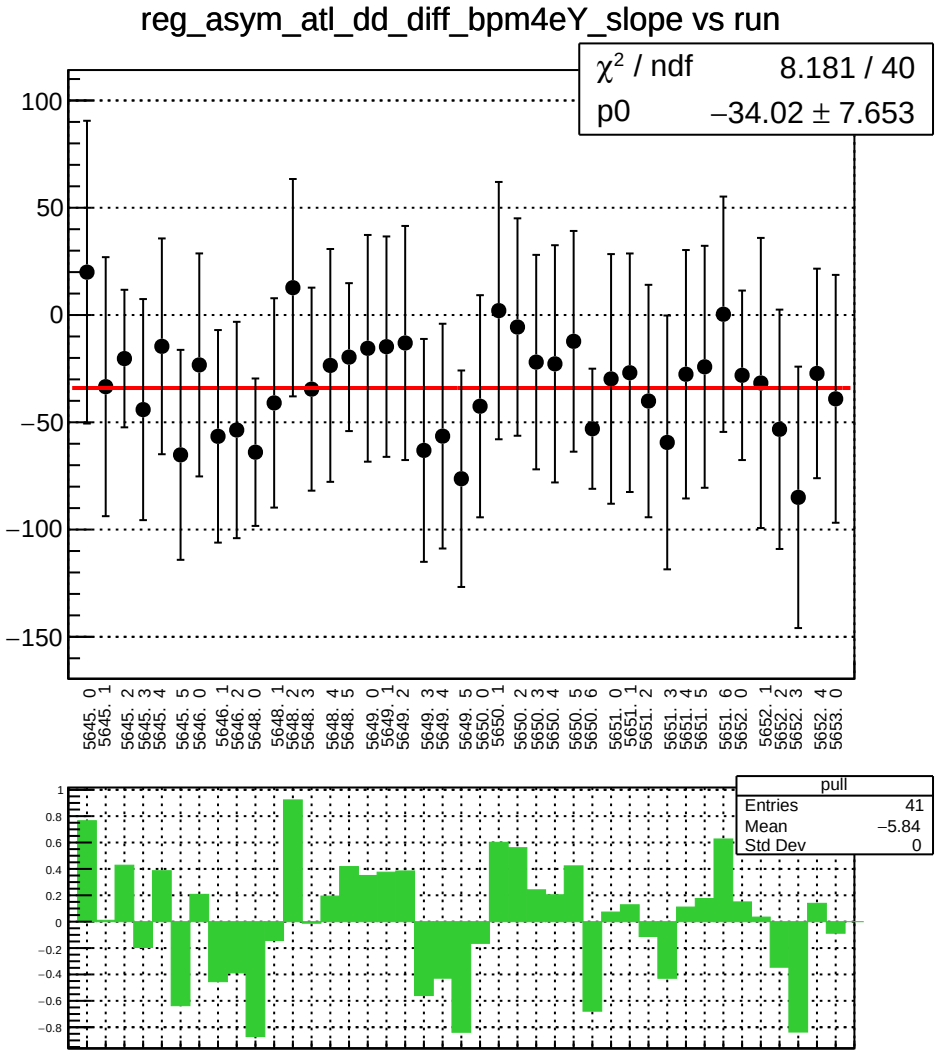

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 9.659 / 40
p0 133.9 ± 7.396
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 81.75
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.01508
Std Dev 0.4851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

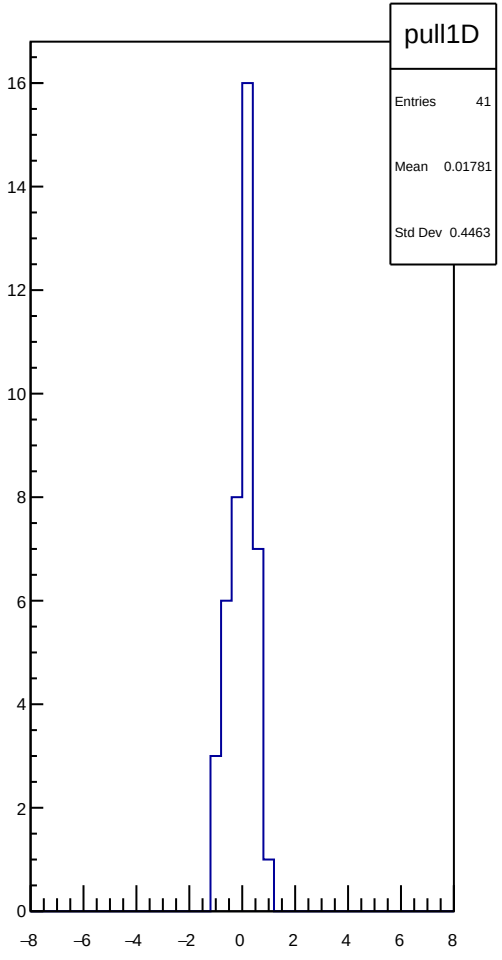

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.13 / 40
p0 −14.73 ± 6.08
pull
Entries 41
Mean −16.96
Std Dev 0

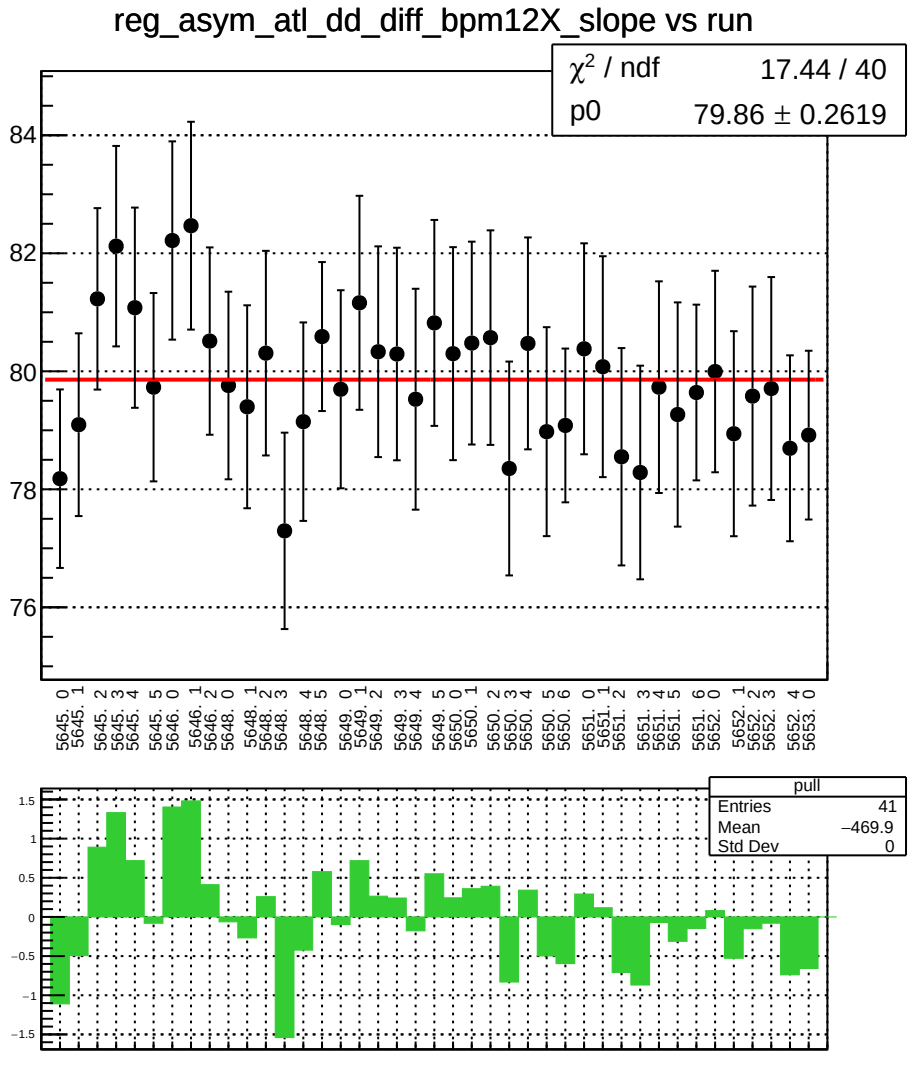

pull1D
Entries 41
Mean −0.01861
Std Dev 0.4449

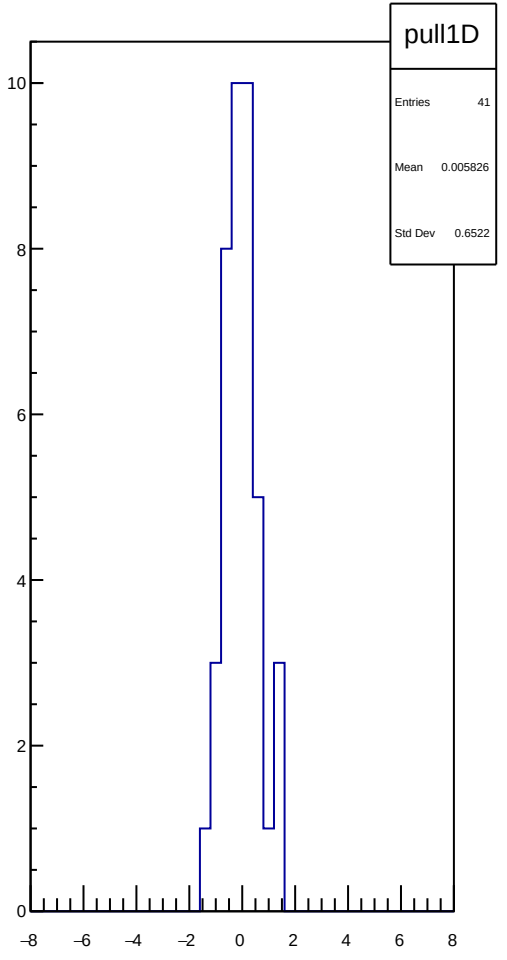

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.03 / 40
p0 −65.79 ± 6.387
pull
Entries 41
Mean 82.75
Std Dev 0

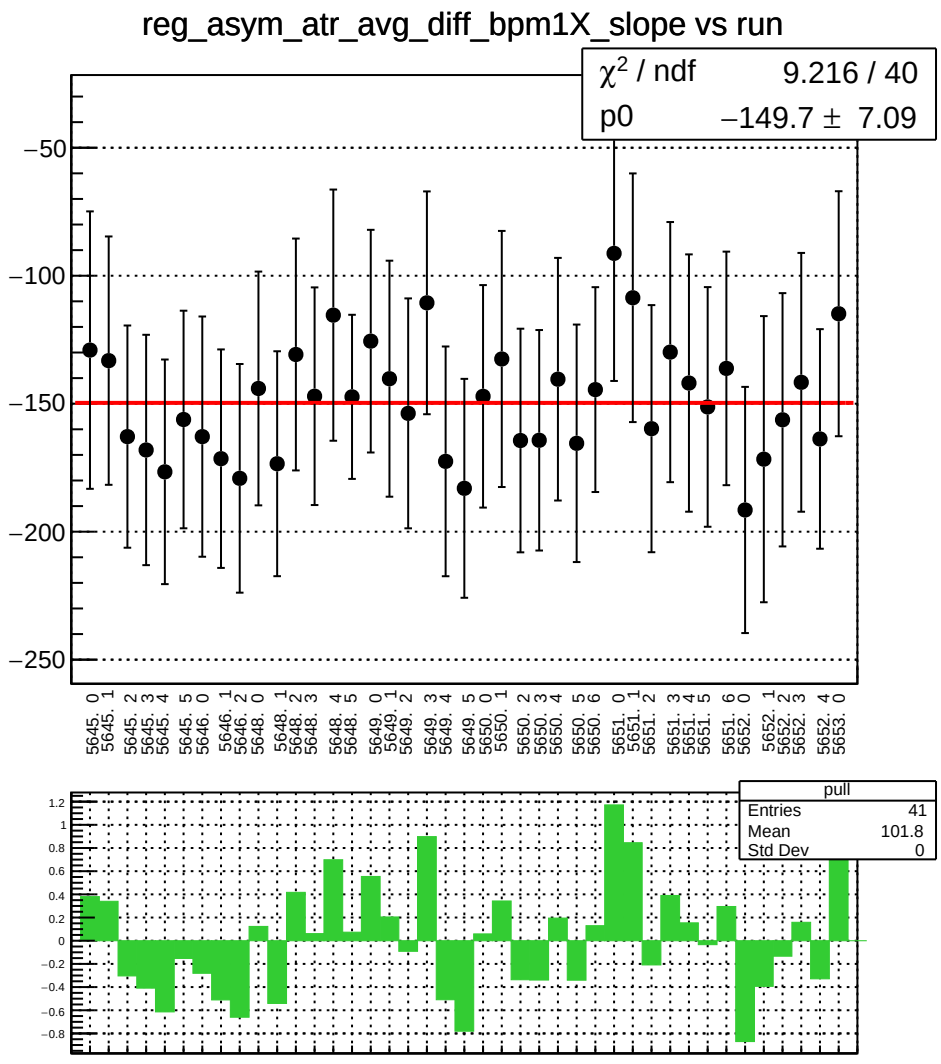

pull1D
Entries 41
Mean 0.01562
Std Dev 0.4943

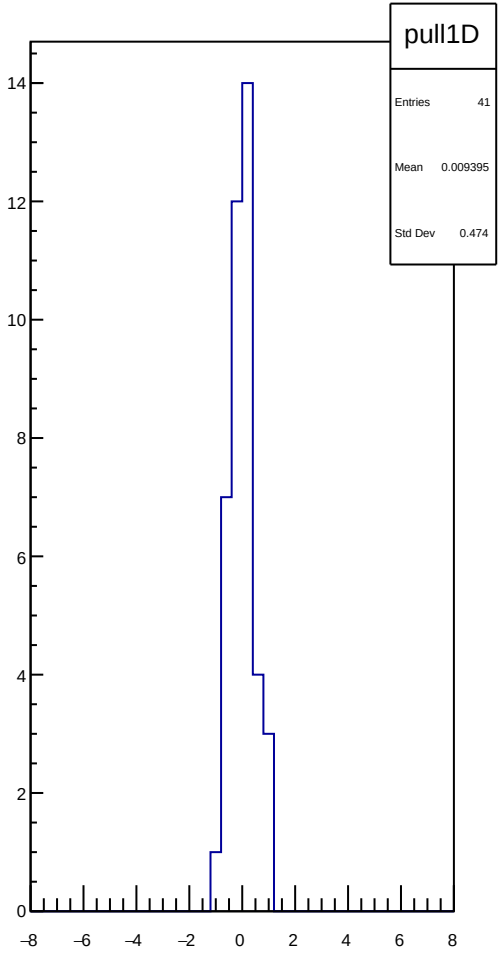

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.181 / 40
p0 −34.02 ± 7.653
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −5.84
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

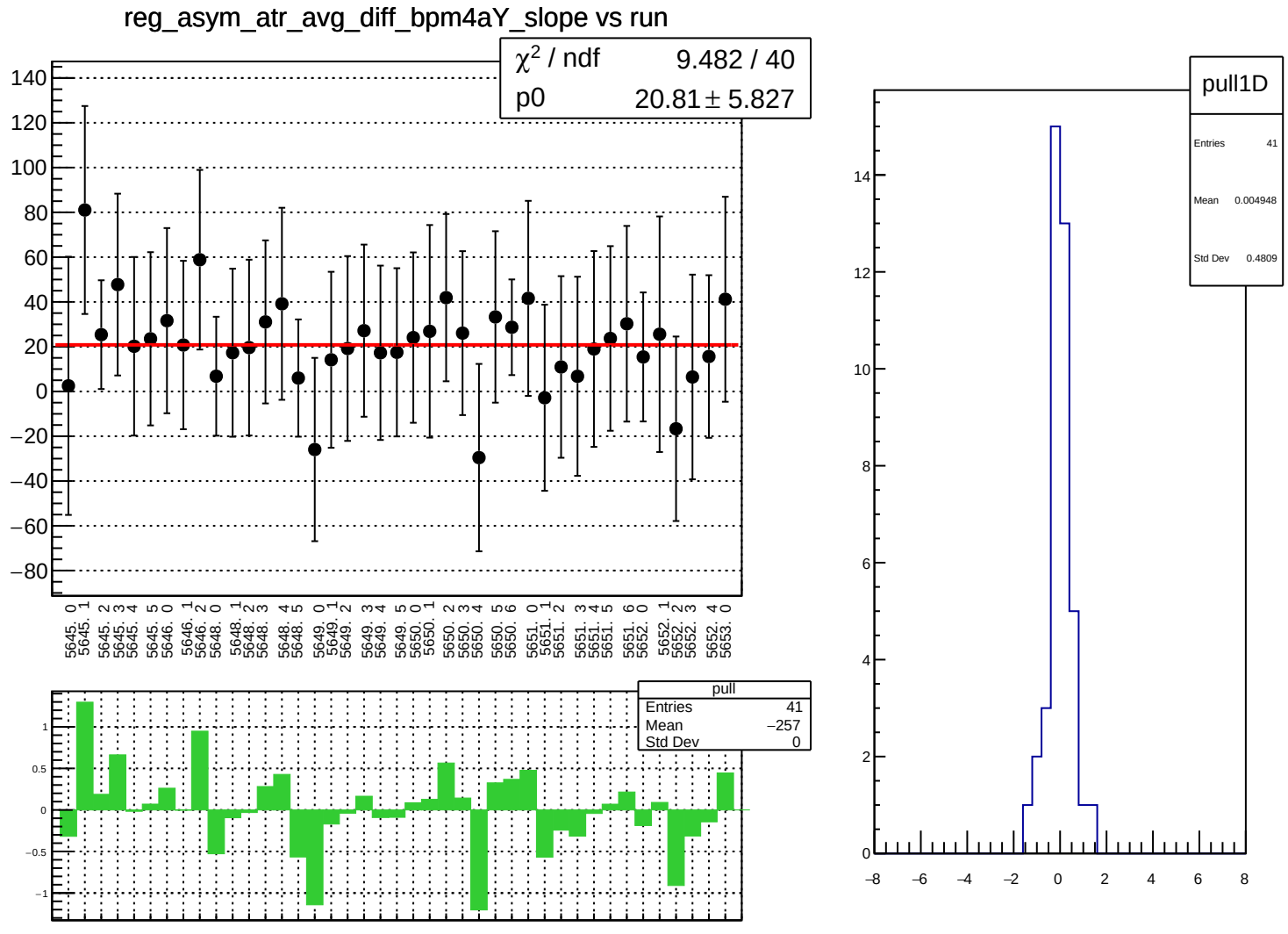

pull1D
Entries 41
Mean 0.01781
Std Dev 0.4463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

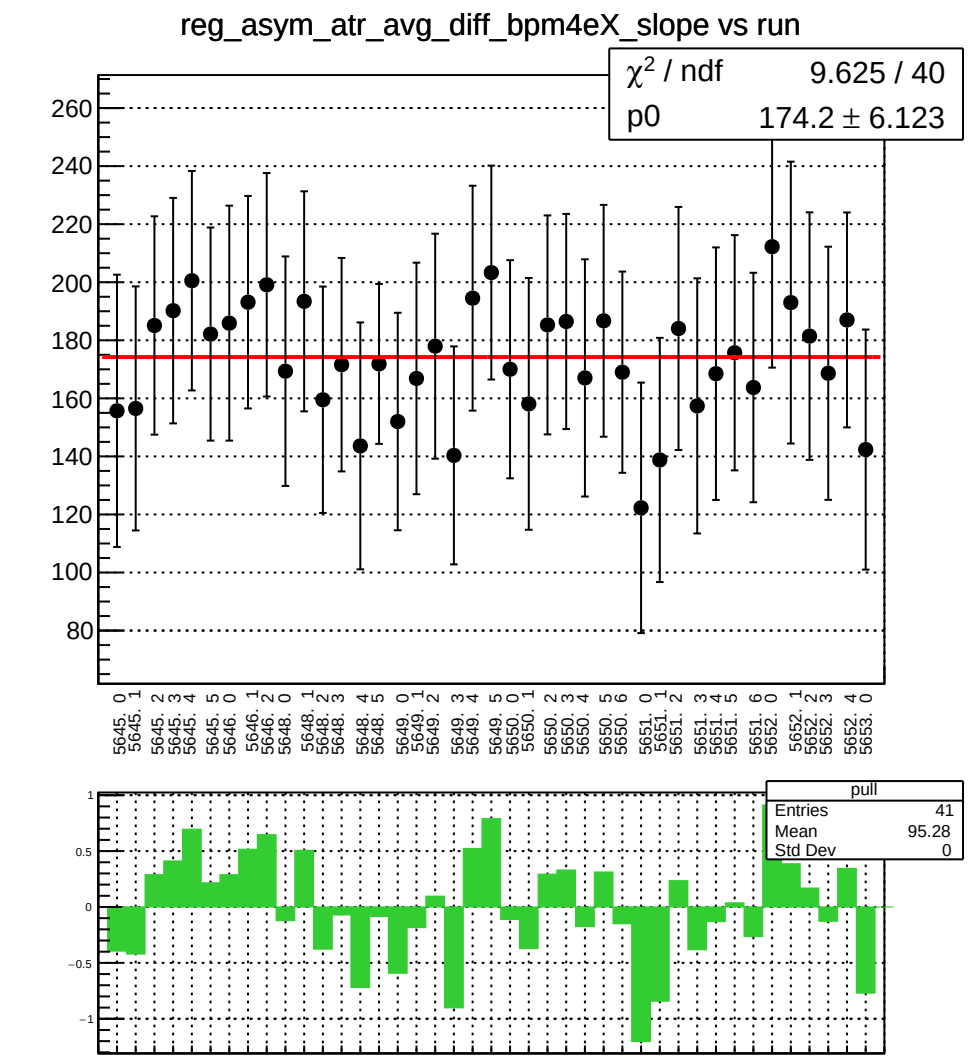

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.44 / 40
p0 79.86 ± 0.2619
84
82
80
78
76
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −469.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

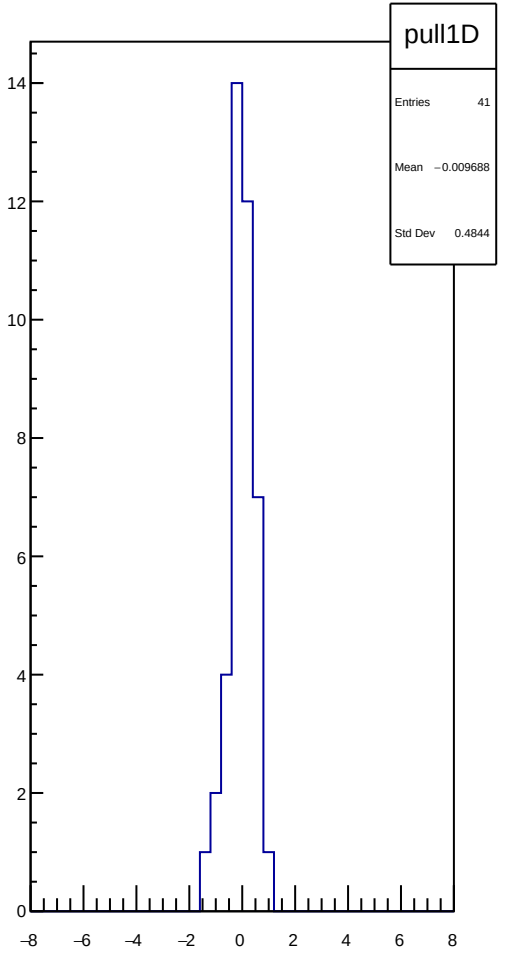

pull1D
Entries 41
Mean 0.005826
Std Dev 0.6522
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

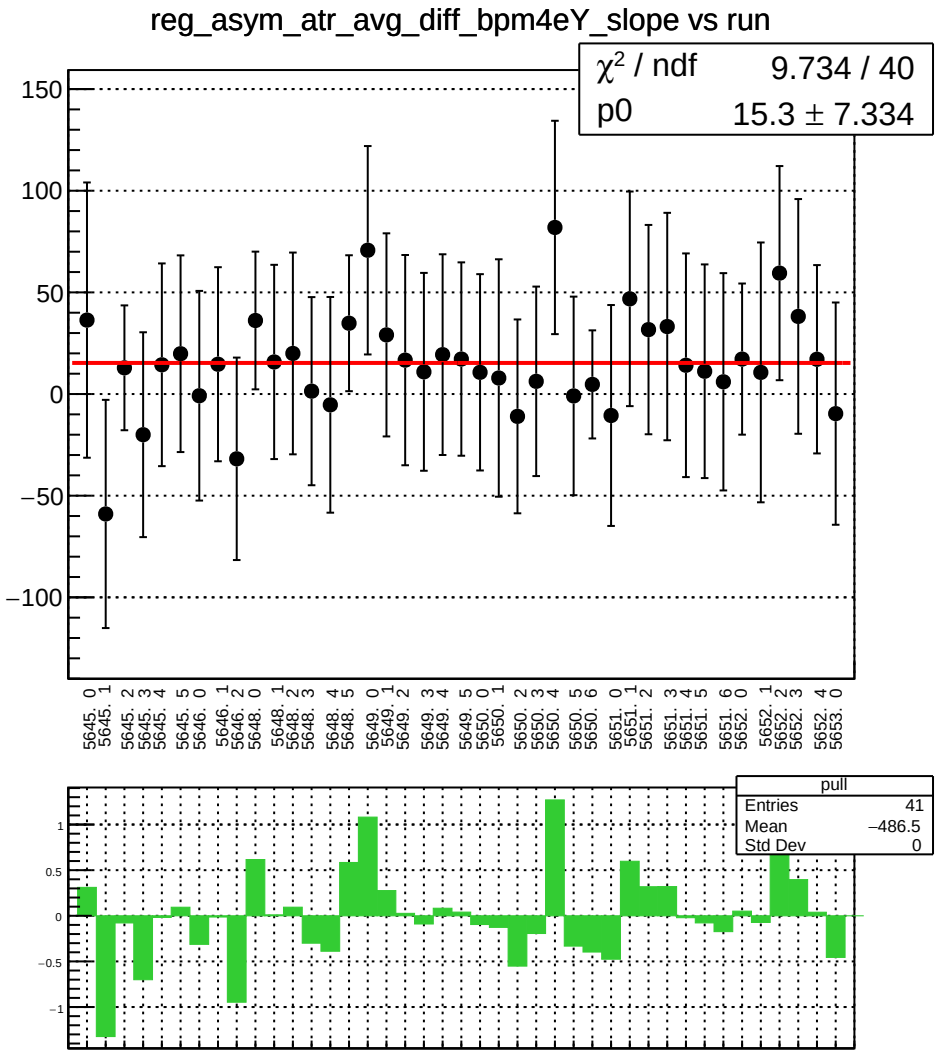

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 9.216 / 40
p0 −149.7 ± 7.09
pull
Entries 41
Mean 101.8
Std Dev 0

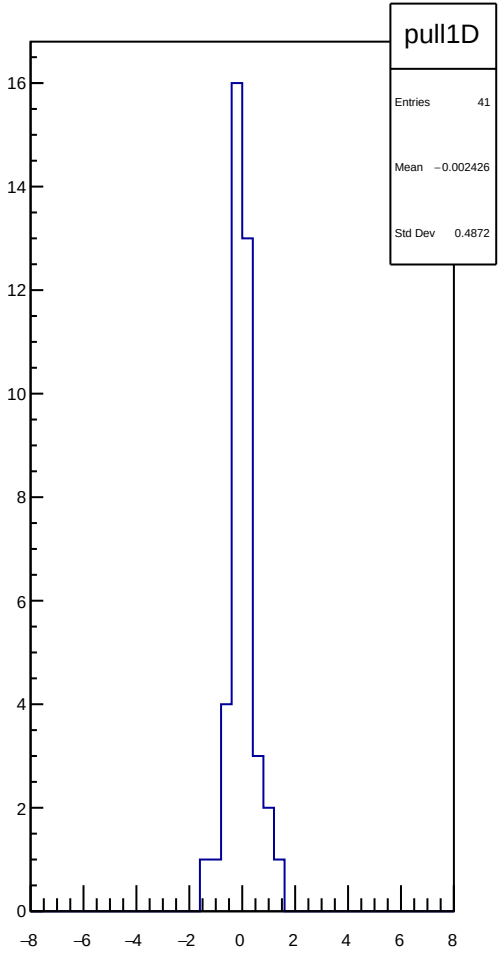

pull1D
Entries 41
Mean 0.009395
Std Dev 0.474

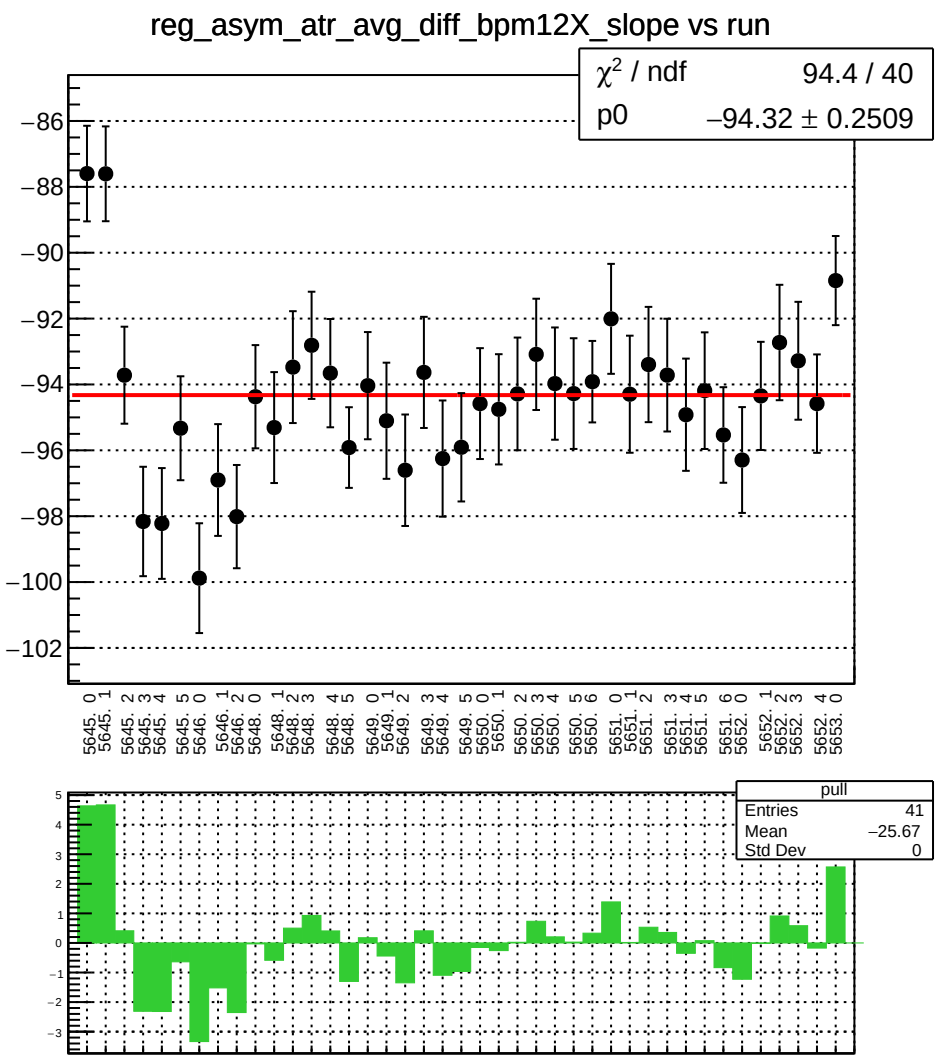

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.482 / 40
p0 20.81 ± 5.827
pull
Entries 41
Mean −257
Std Dev 0
pull1D
Entries 41
Mean 0.004948
Std Dev 0.4809

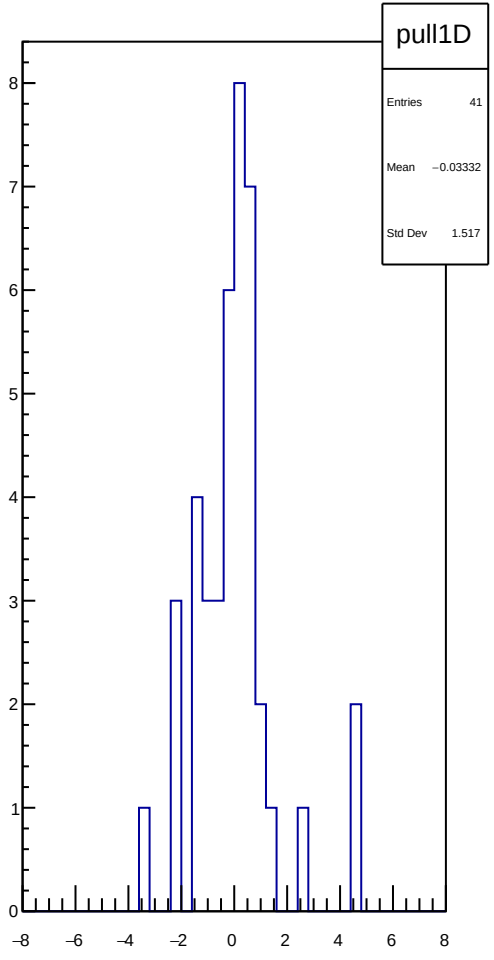

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.625 / 40
p0 174.2 ± 6.123
pull
Entries 41
Mean 95.28
Std Dev 0

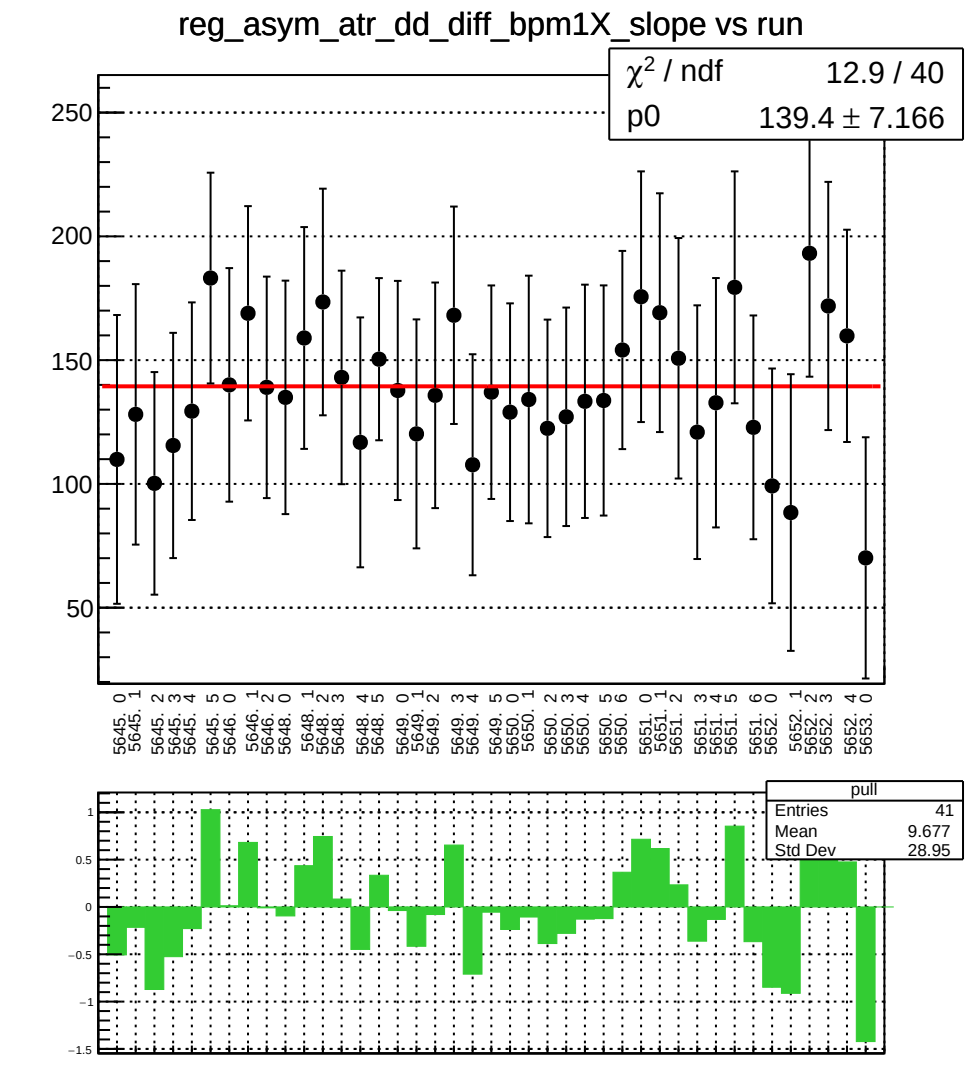

pull1D
Entries 41
Mean −0.009688
Std Dev 0.4844

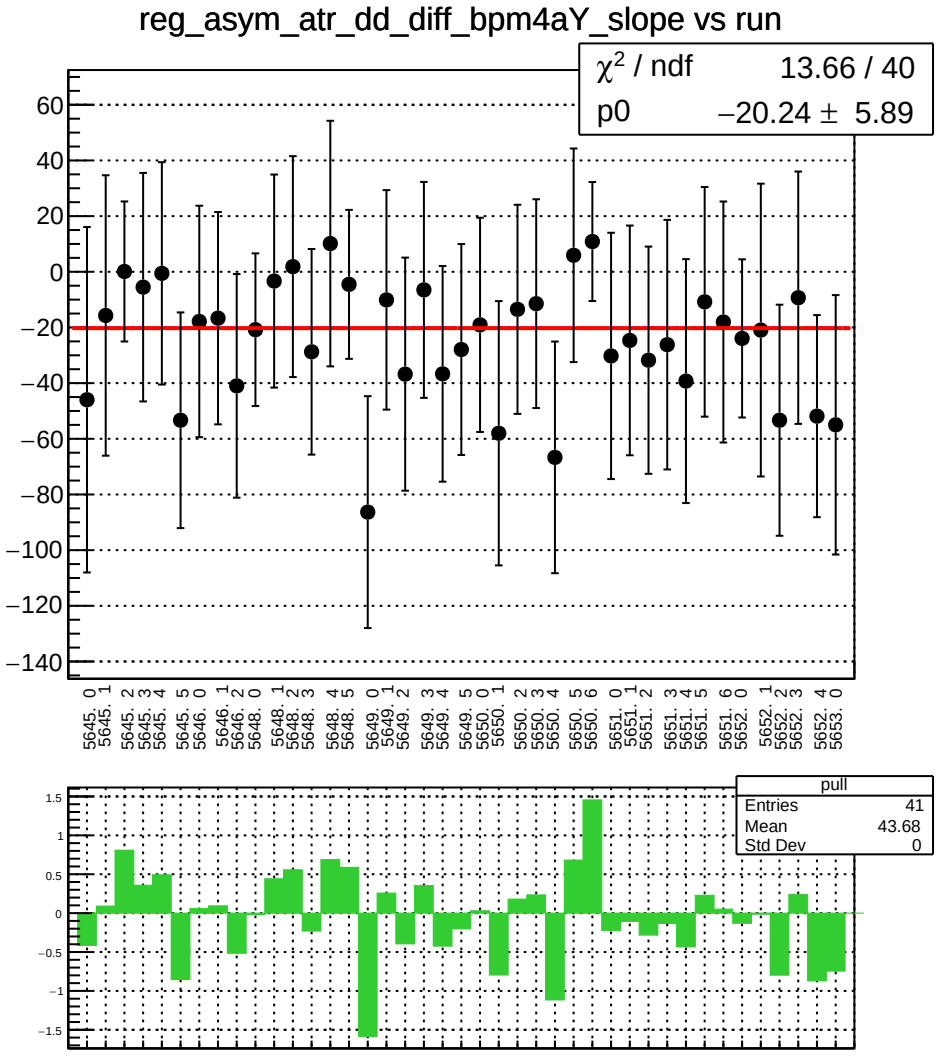

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.734 / 40
p0 15.3 ± 7.334
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −486.5
Std Dev 0
1
0.5
0
−0.5
−1

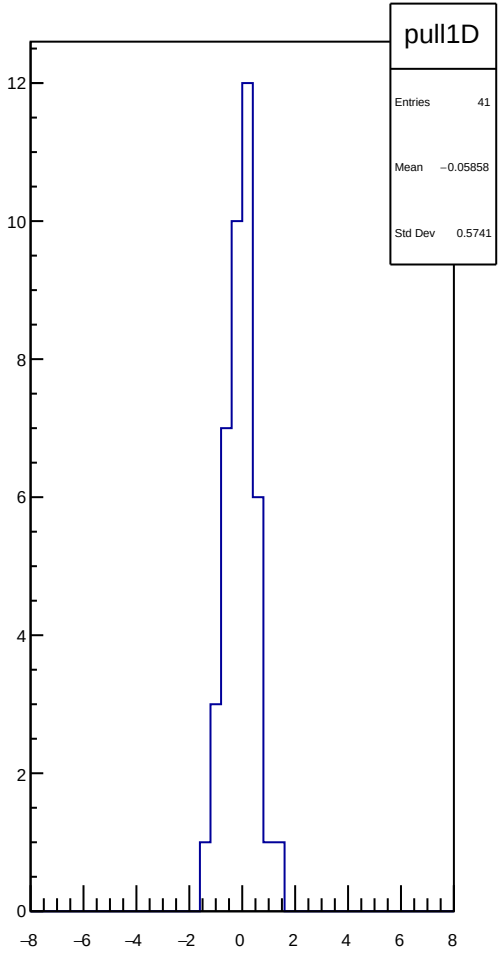

pull1D
Entries 41
Mean −0.002426
Std Dev 0.4872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

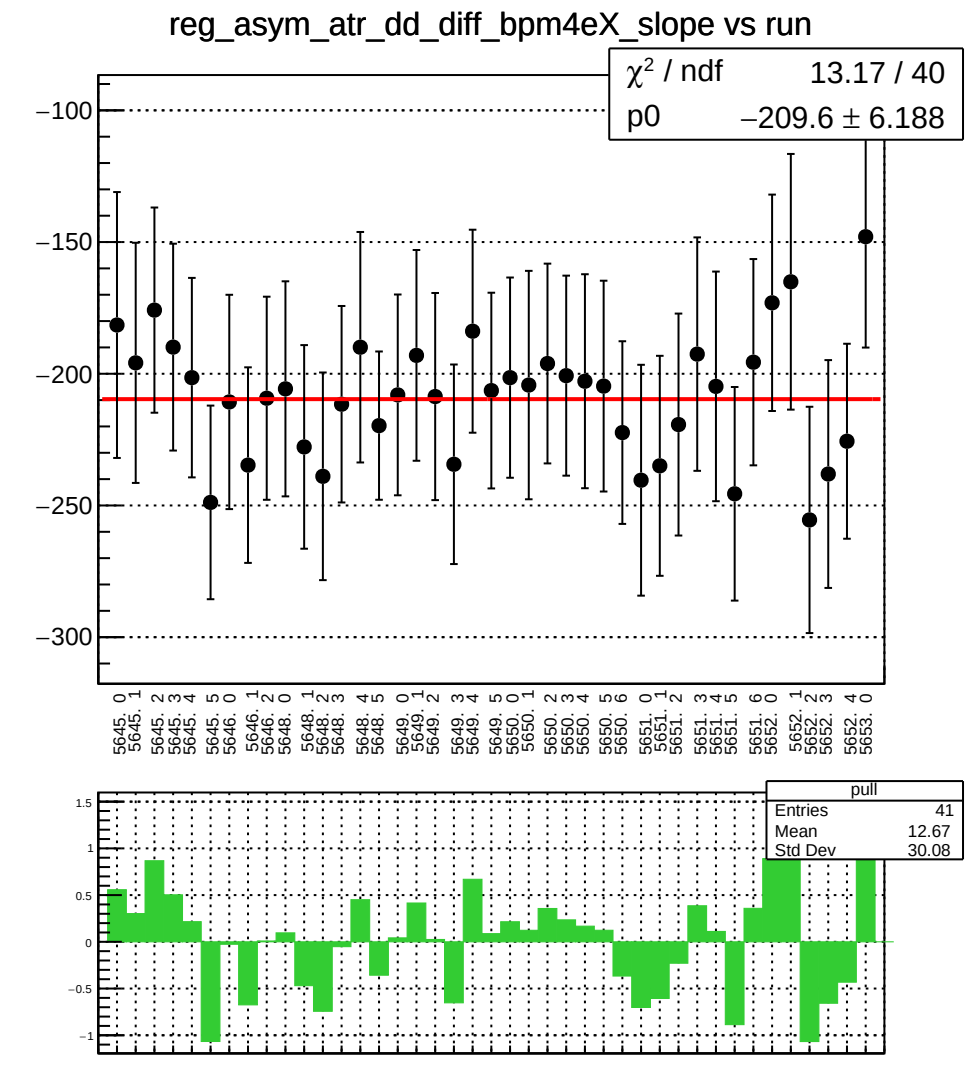

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 94.4 / 40
p0 −94.32 ± 0.2509
pull
Entries 41
Mean −25.67
Std Dev 0

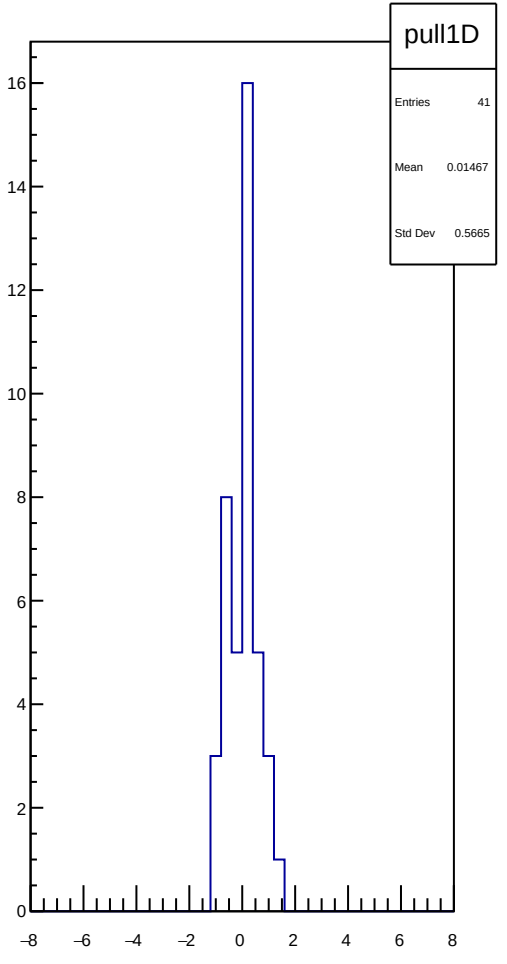

pull1D
Entries 41
Mean −0.03332
Std Dev 1.517

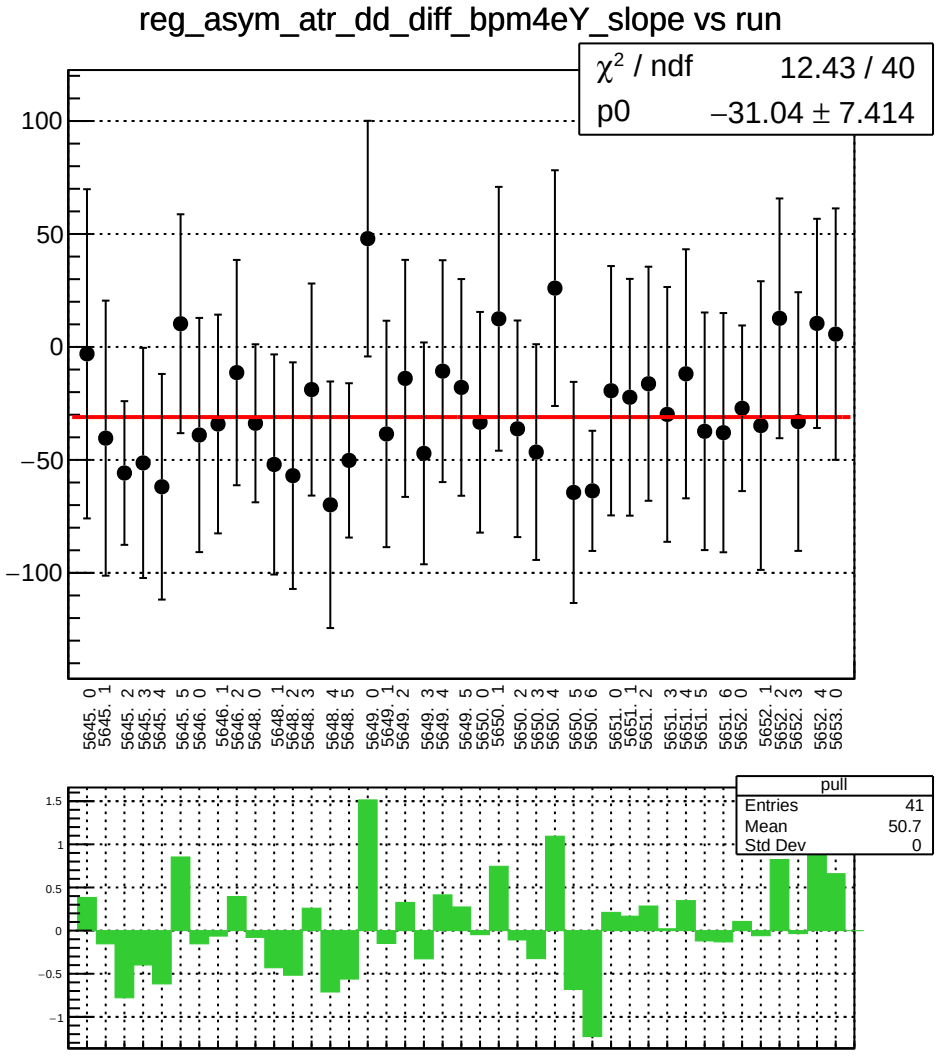

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 12.9 / 40
p0 139.4 ± 7.166
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.677
Std Dev 28.95
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.01311
Std Dev 0.5607
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

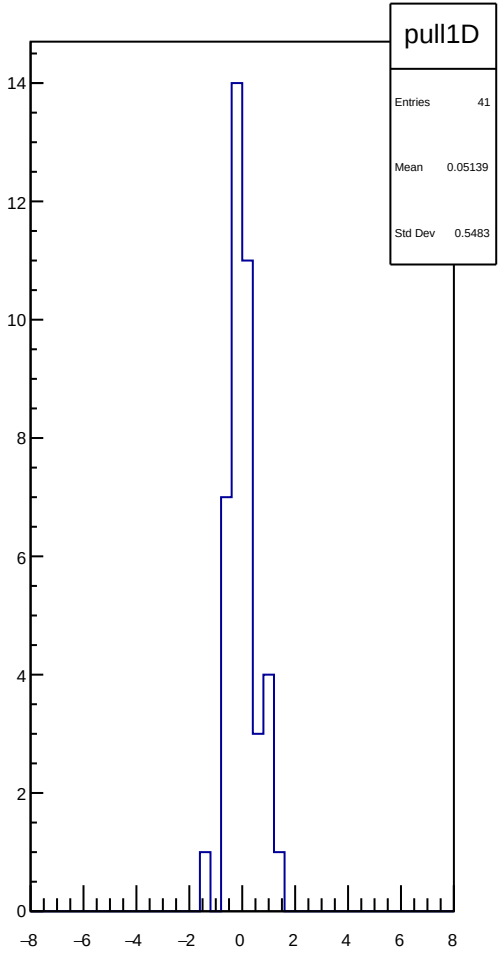

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.66 / 40
p0 −20.24 ± 5.89
pull
Entries 41
Mean 43.68
Std Dev 0

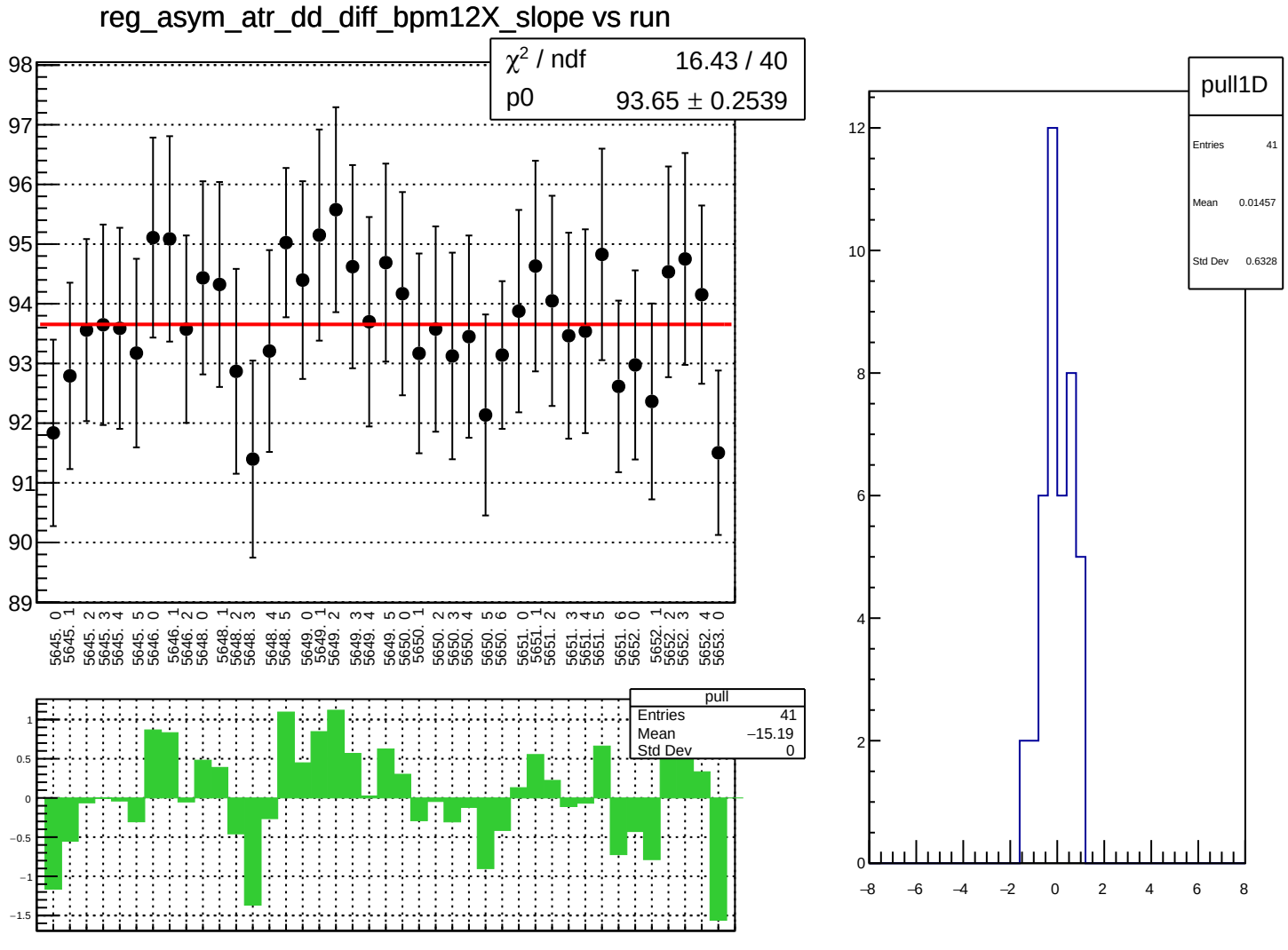

pull1D
Entries 41
Mean −0.05858
Std Dev 0.5741

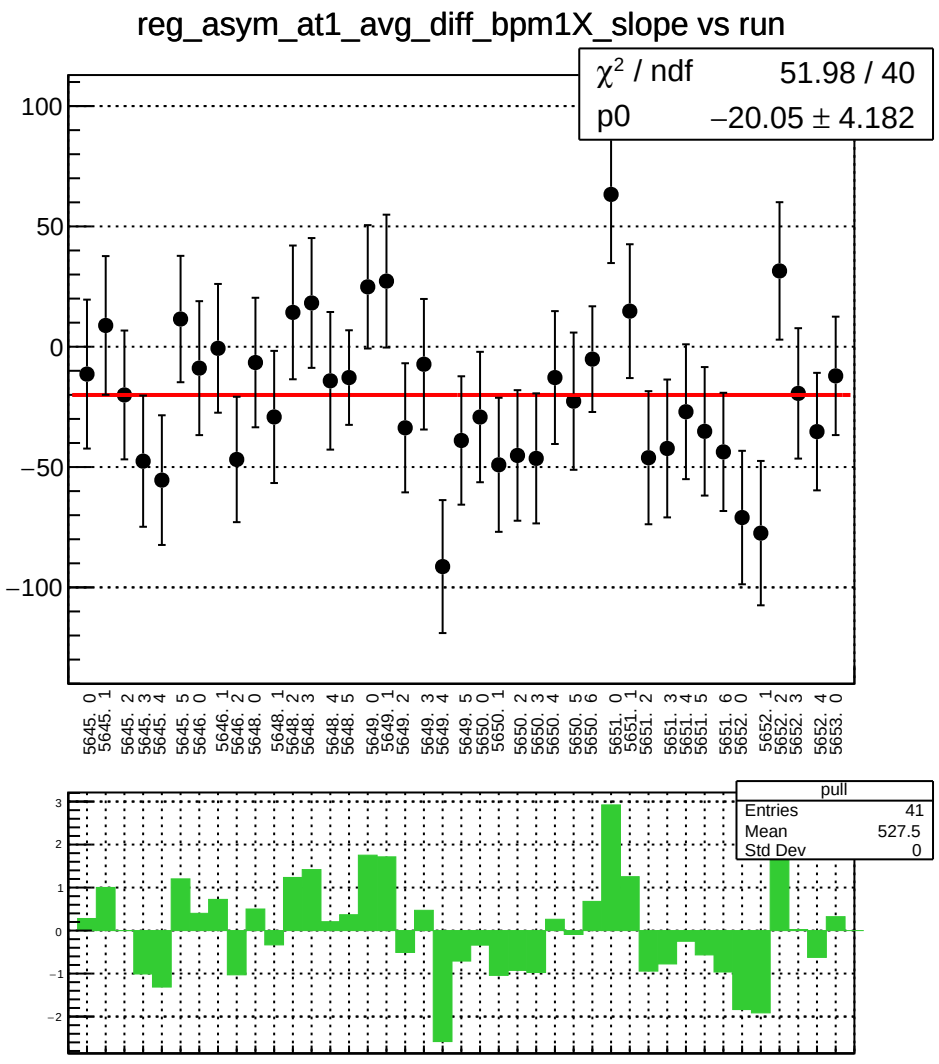

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.17 / 40
p0 −209.6 ± 6.188
−100
−150
−200
−250
−300
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 12.67
Std Dev 30.08
1.5
1
0.5
0
−0.5
−1

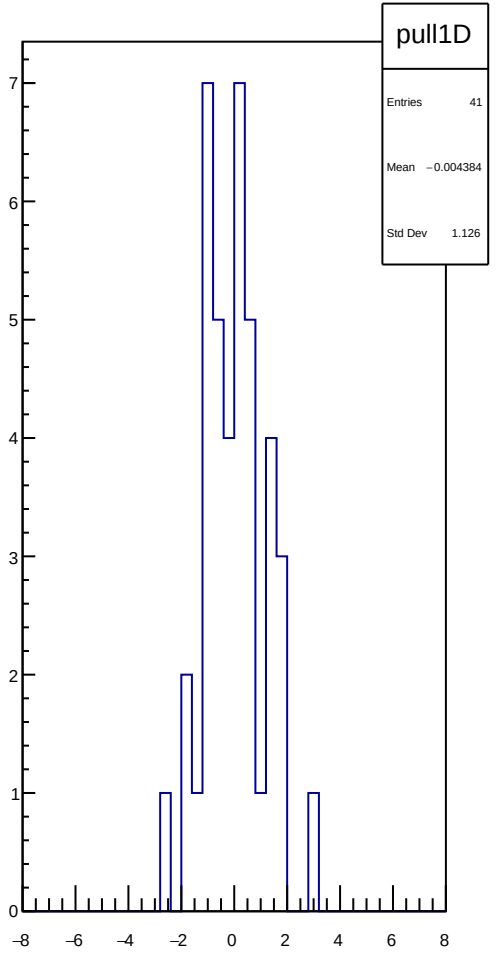

pull1D
Entries 41
Mean 0.01467
Std Dev 0.5665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

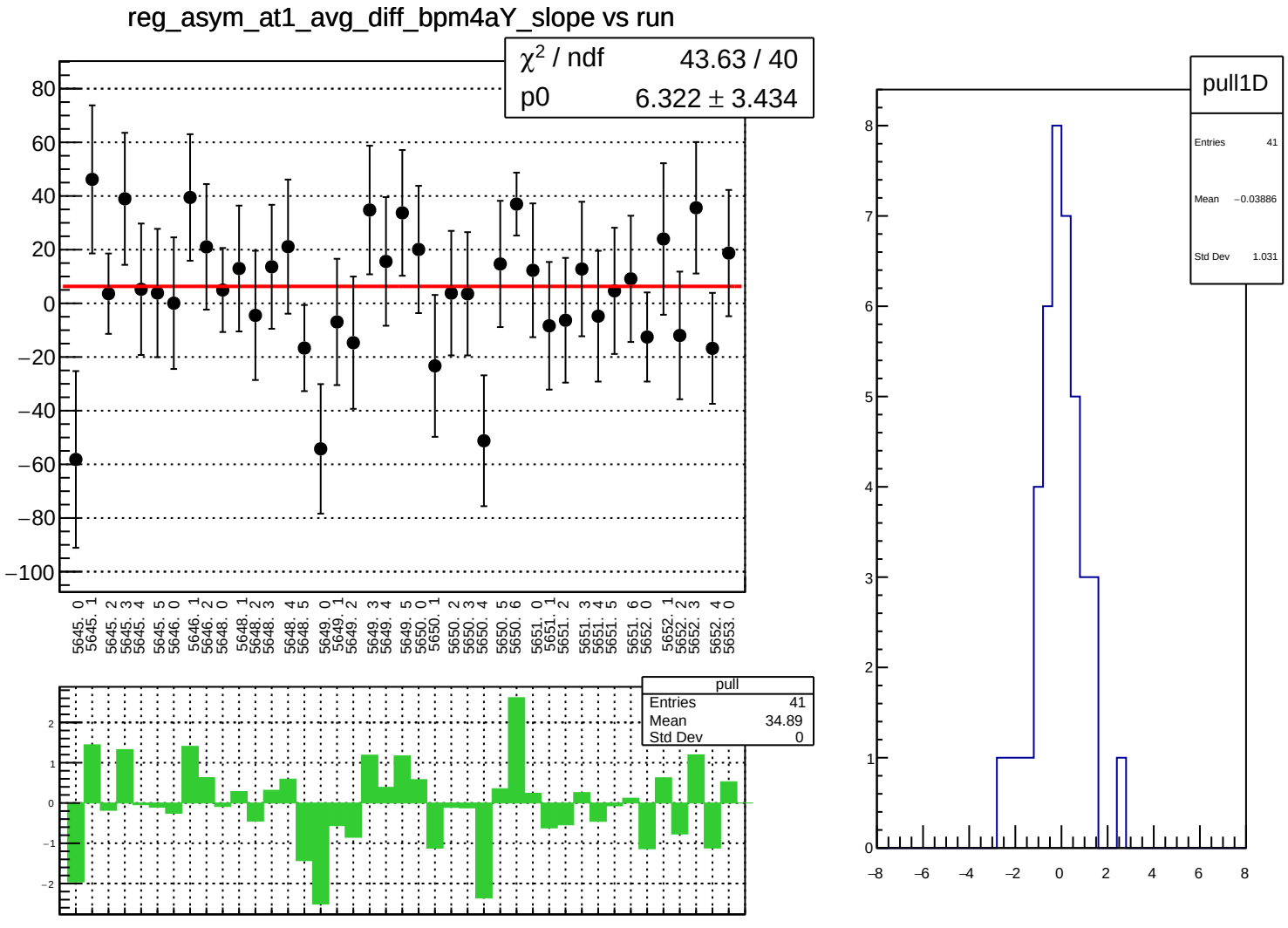

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.43 / 40
p0 −31.04 ± 7.414
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 50.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

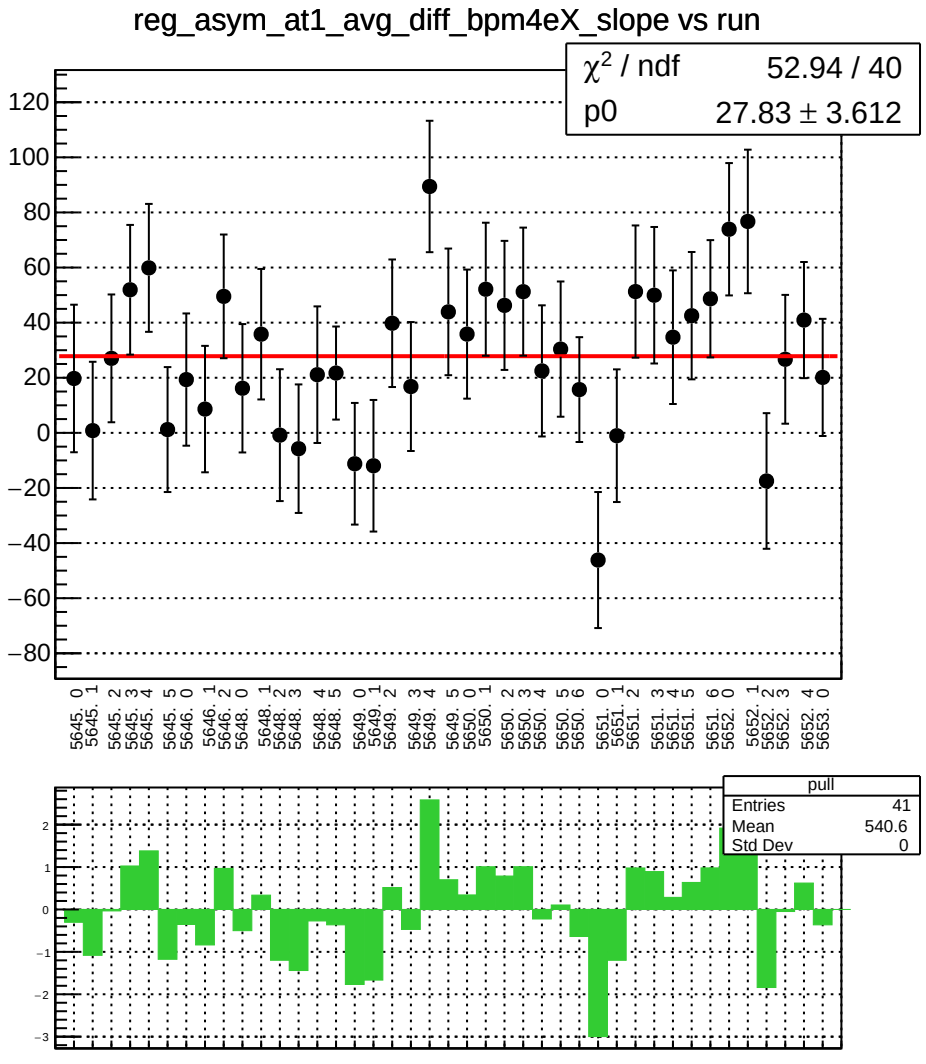

pull1D
Entries 41
Mean 0.05139
Std Dev 0.5483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

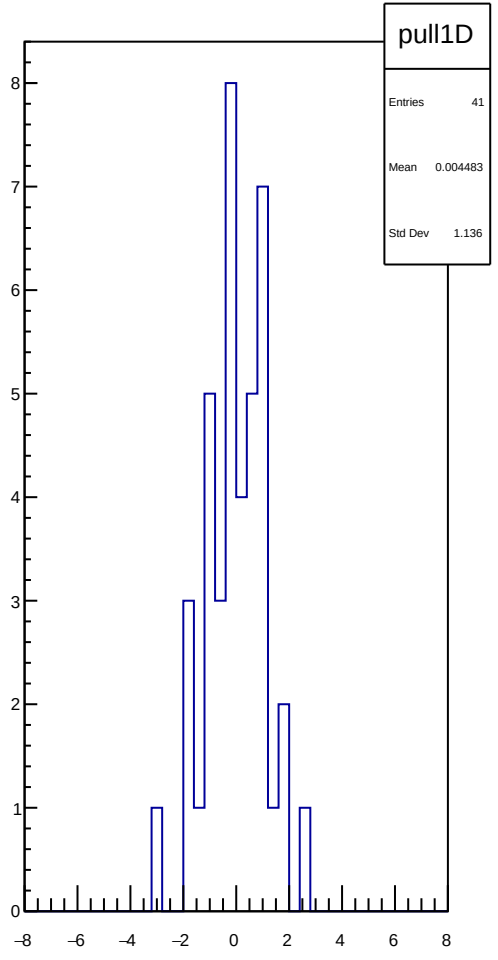

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 16.43 / 40
p0 93.65 ± 0.2539
pull
Entries 41
Mean −15.19
Std Dev 0
pull1D
Entries 41
Mean 0.01457
Std Dev 0.6328

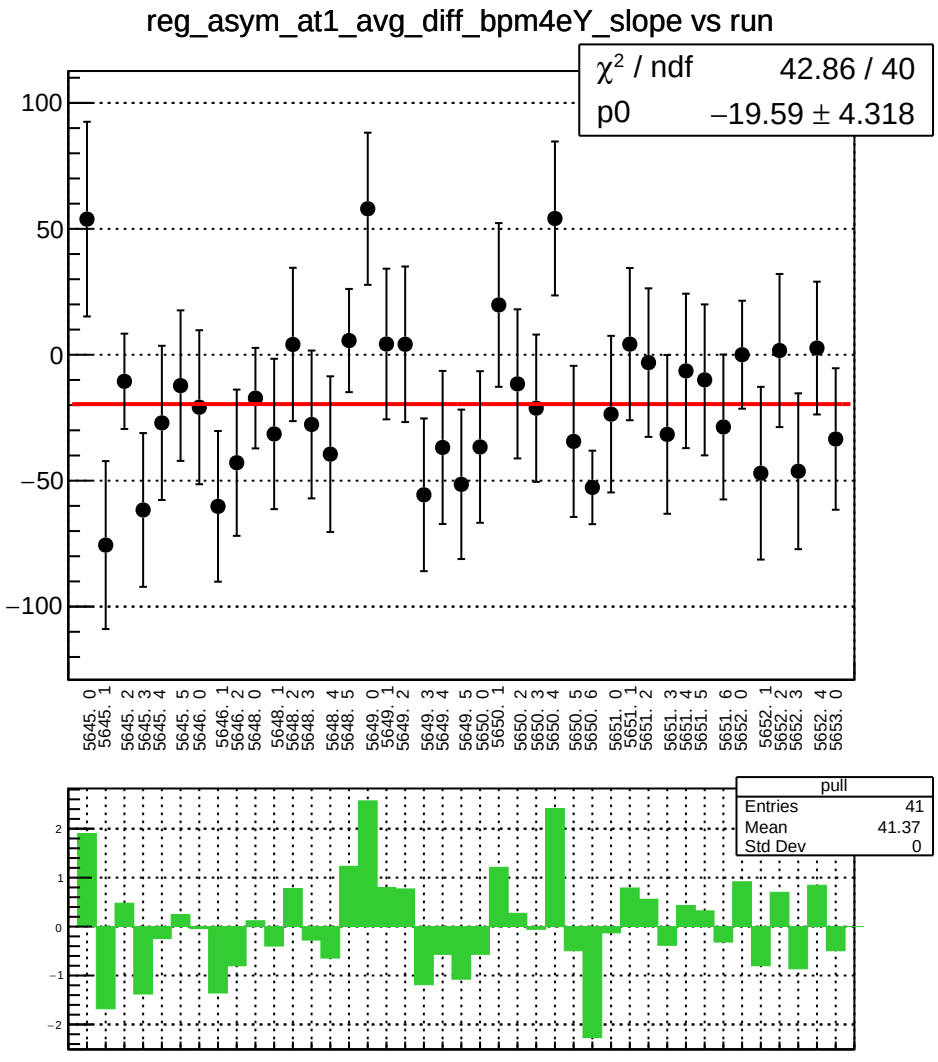

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 51.98 / 40
p0 −20.05 ± 4.182
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 527.5
Std Dev 0
3
2
1
0
−1
−2

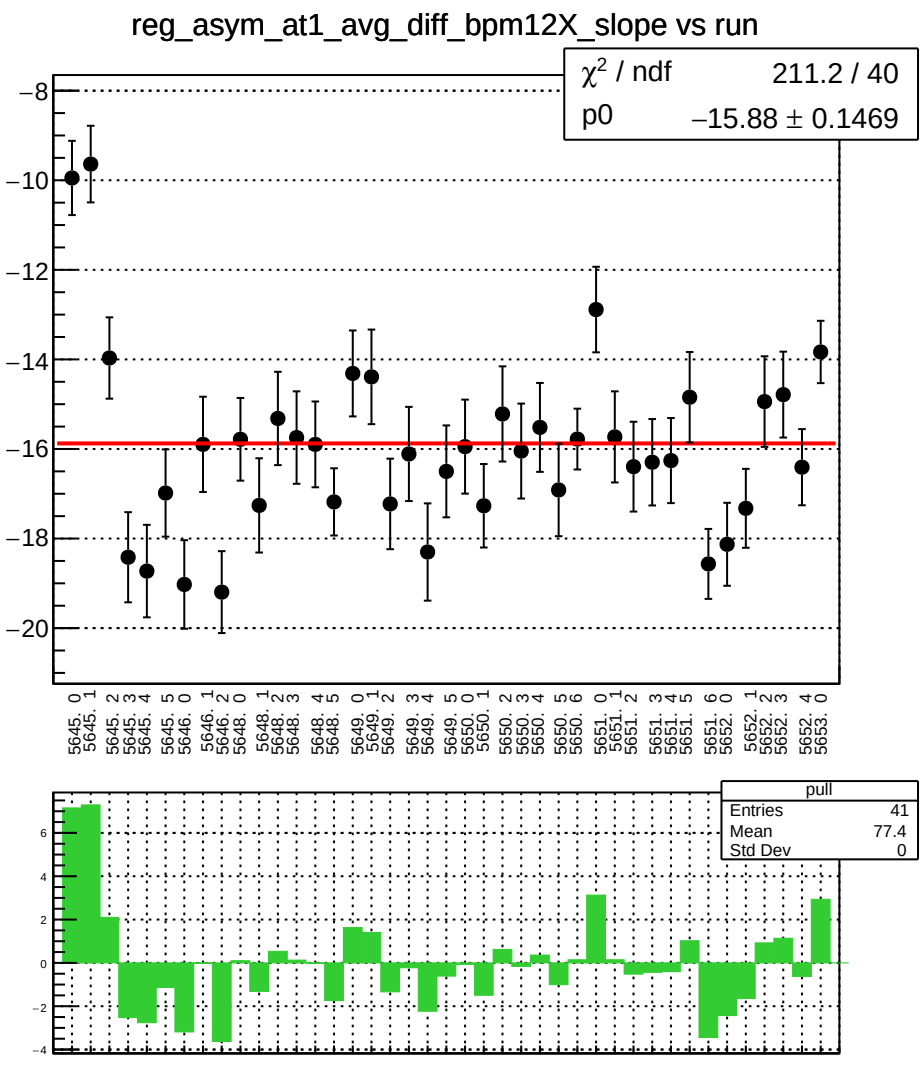

pull1D
Entries 41
Mean −0.004384
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

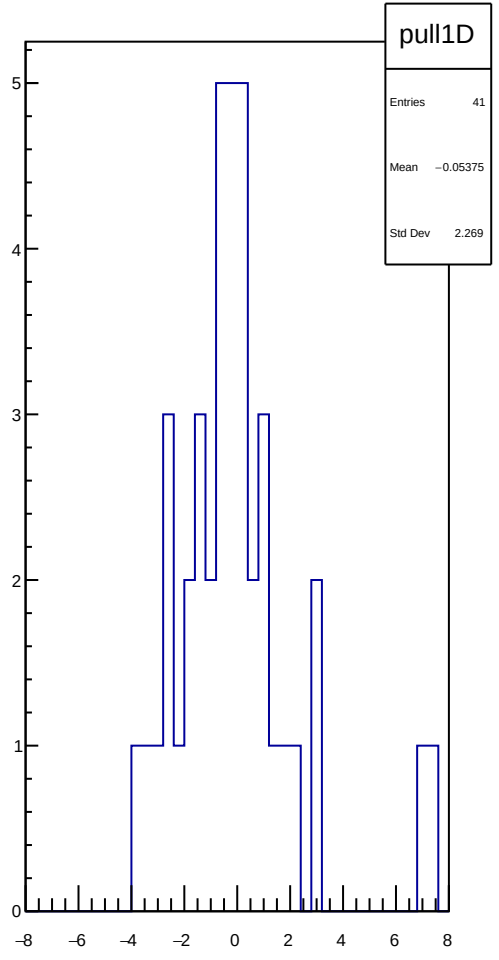

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.63 / 40
p0 6.322 ± 3.434
pull
Entries 41
Mean 34.89
Std Dev 0
pull1D
Entries 41
Mean −0.03886
Std Dev 1.031

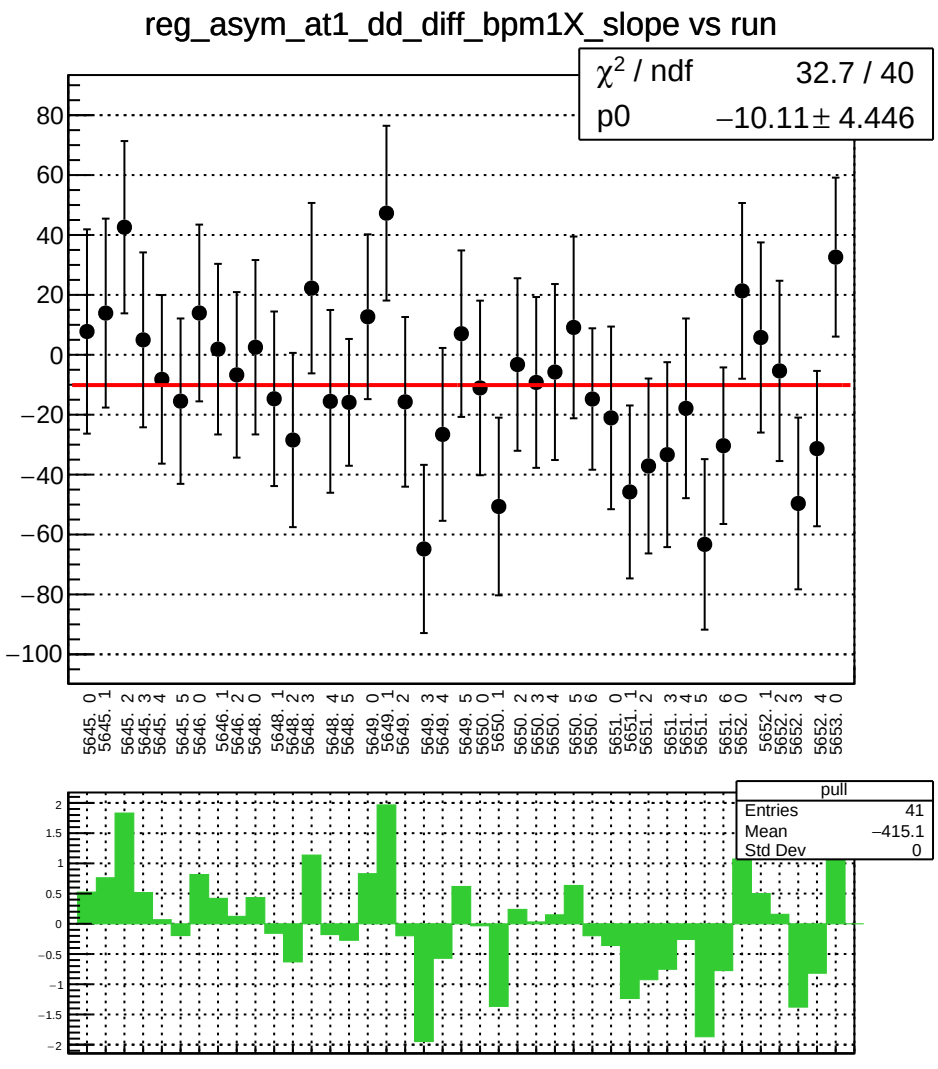

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.94 / 40
p0 27.83 ± 3.612
pull
Entries 41
Mean 540.6
Std Dev 0

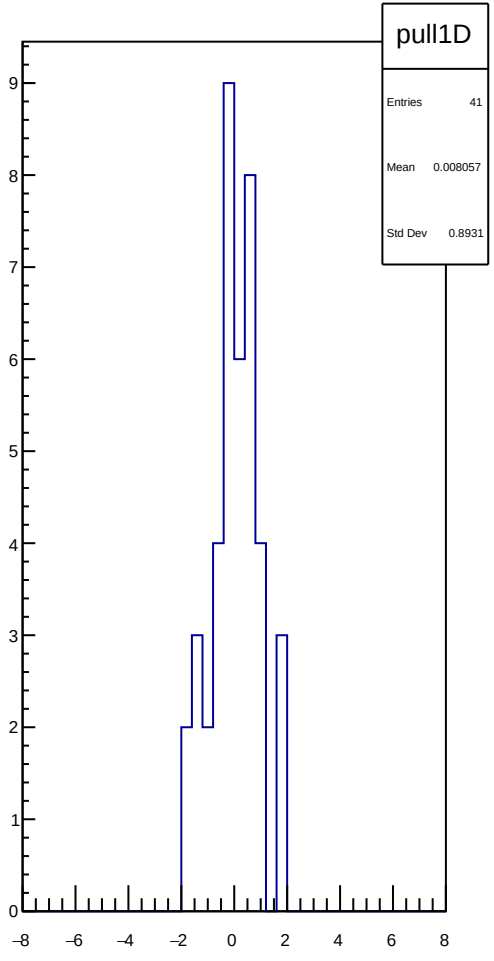

pull1D
Entries 41
Mean 0.004483
Std Dev 1.136

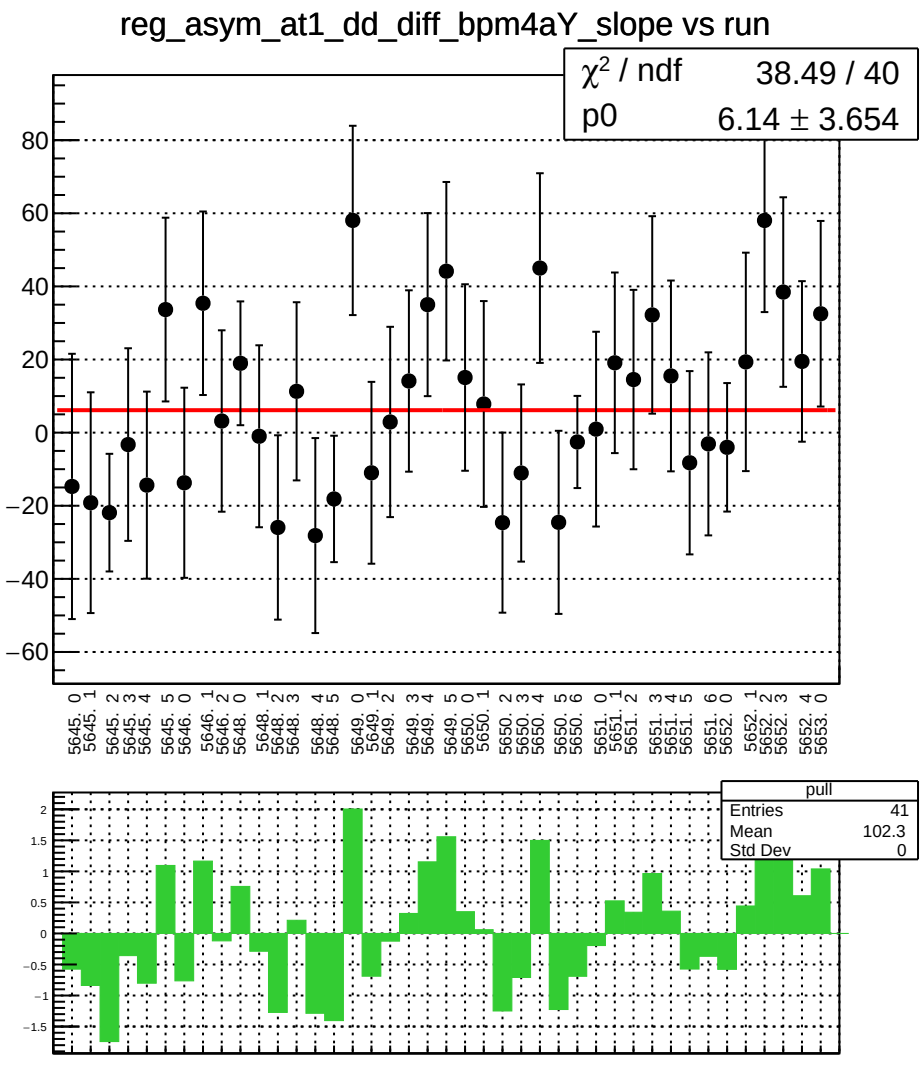

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.86 / 40
p0 −19.59 ± 4.318
pull
Entries 41
Mean 41.37
Std Dev 0
pull1D
Entries 41
Mean 0.03255
Std Dev 1.022

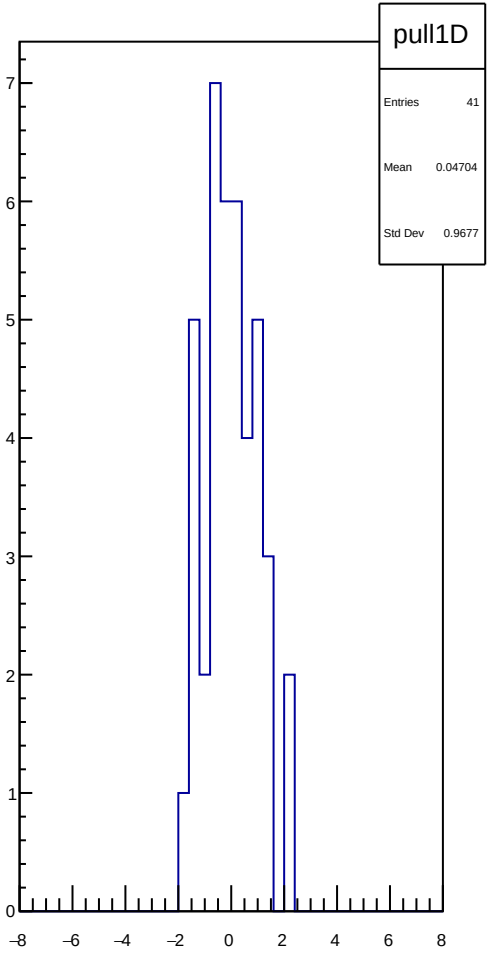

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 211.2 / 40
p0 −15.88 ± 0.1469
pull
Entries 41
Mean 77.4
Std Dev 0

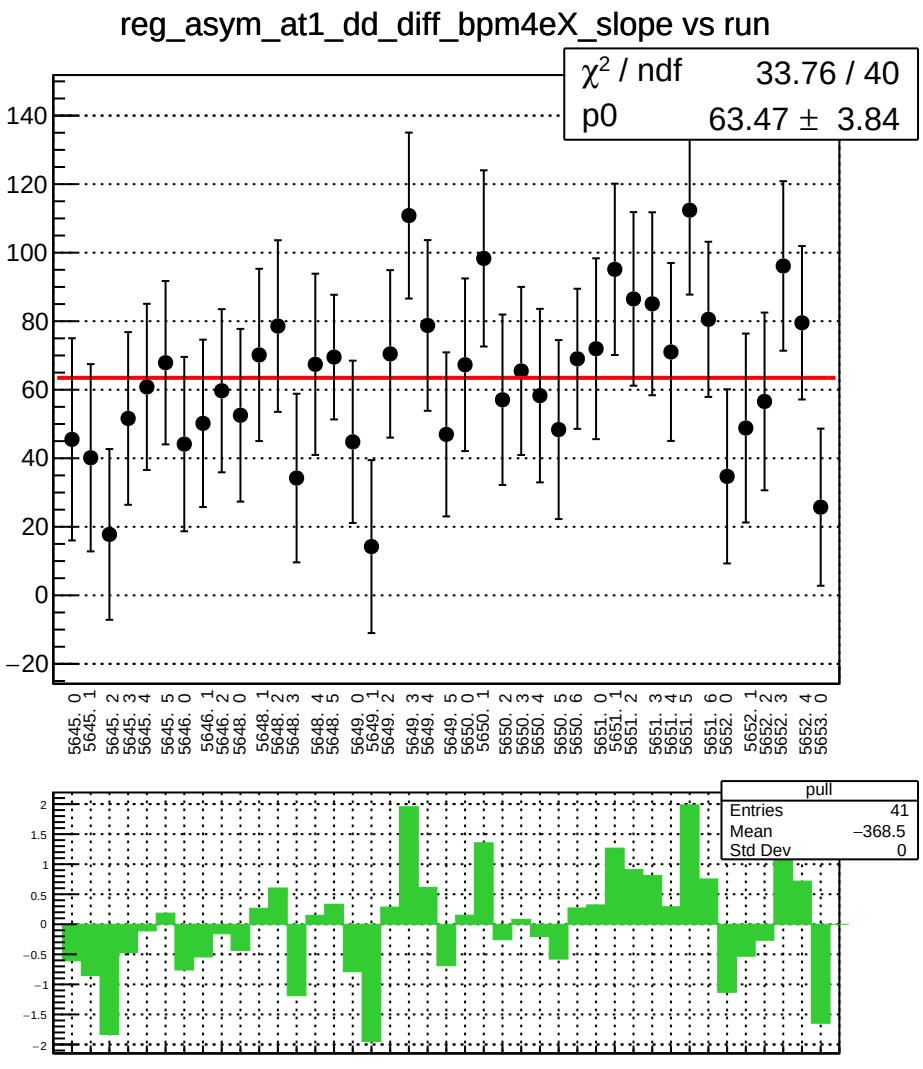

pull1D
Entries 41
Mean −0.05375
Std Dev 2.269

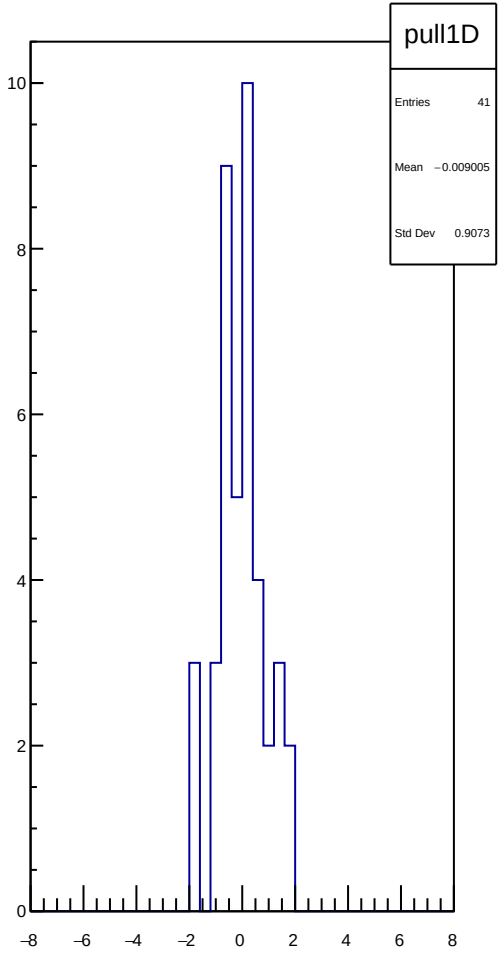

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 32.7 / 40
p0 −10.11± 4.446
pull
Entries 41
Mean −415.1
Std Dev 0

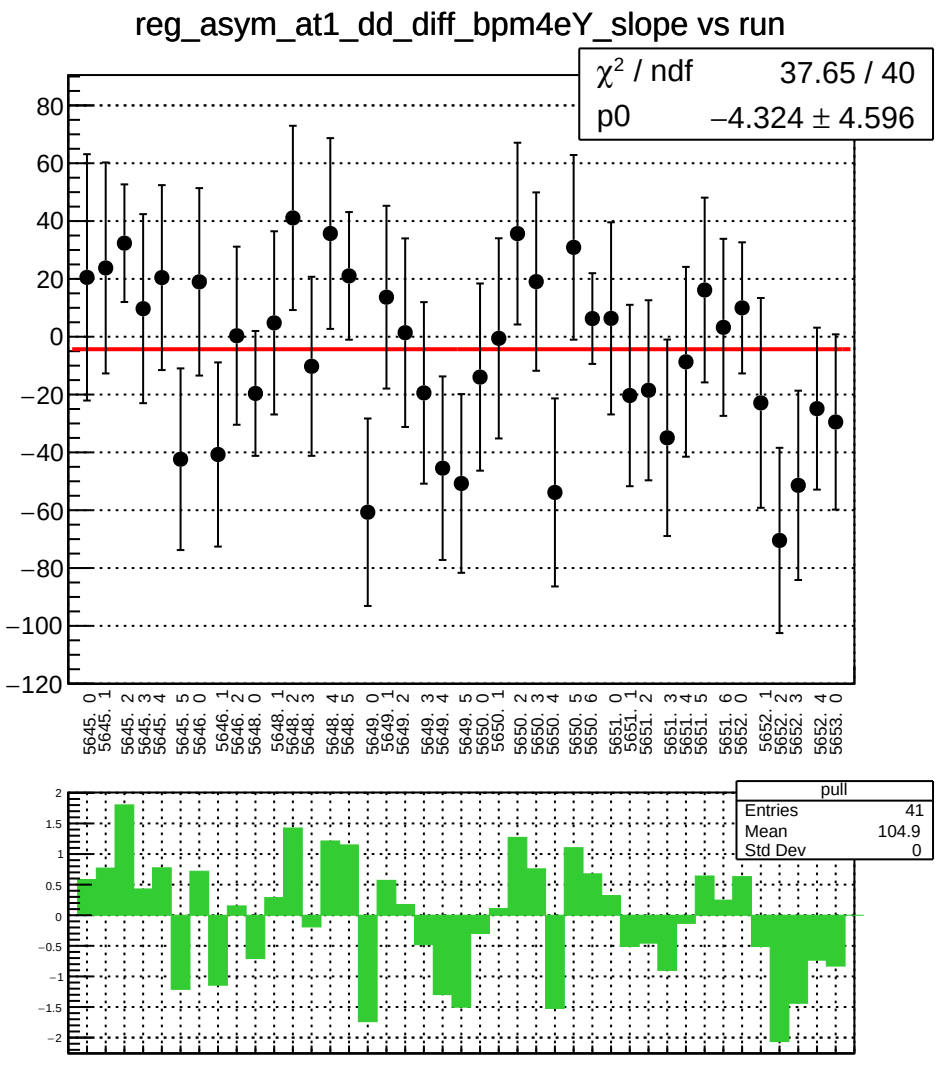

pull1D
Entries 41
Mean 0.008057
Std Dev 0.8931

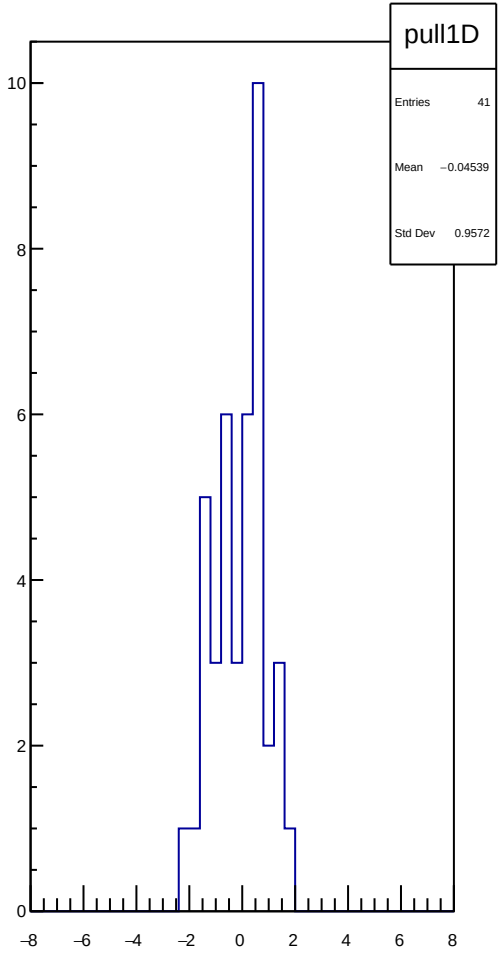

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.49 / 40
p0 6.14 ± 3.654
pull
Entries 41
Mean 102.3
Std Dev 0

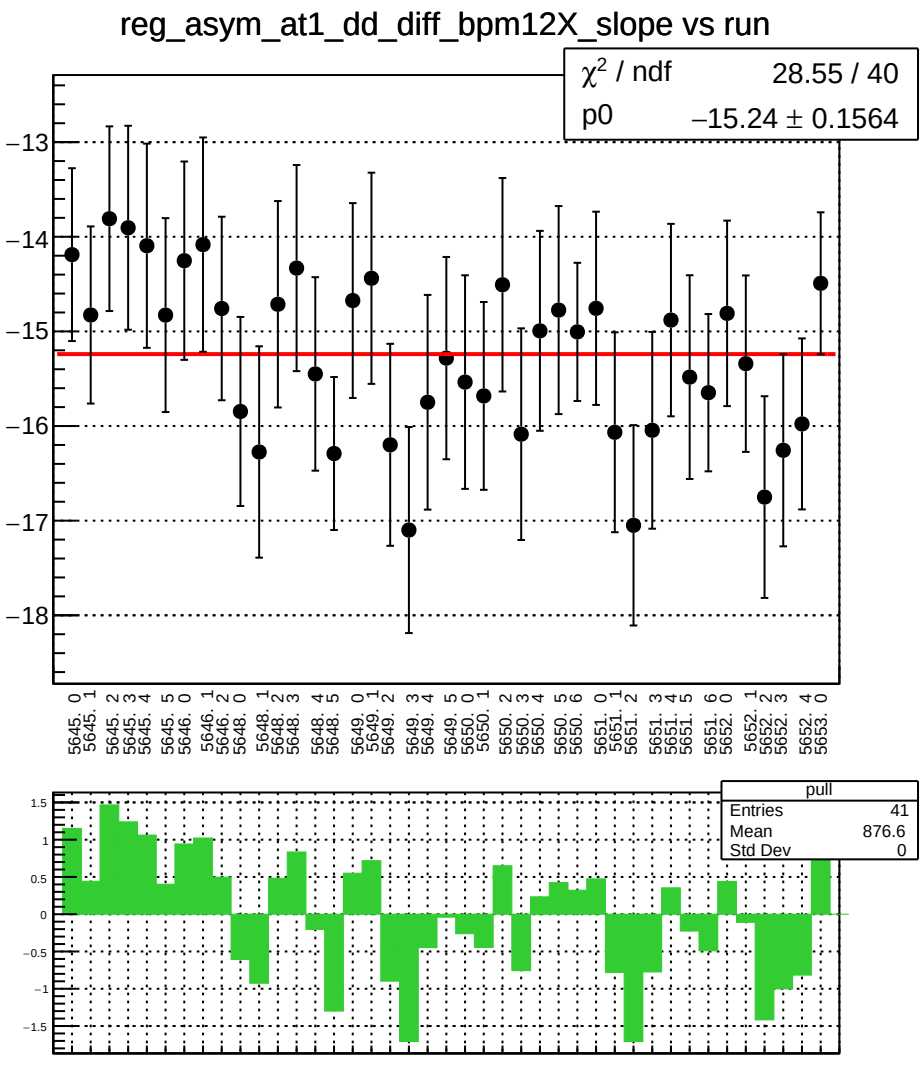

pull1D
Entries 41
Mean 0.04704
Std Dev 0.9677

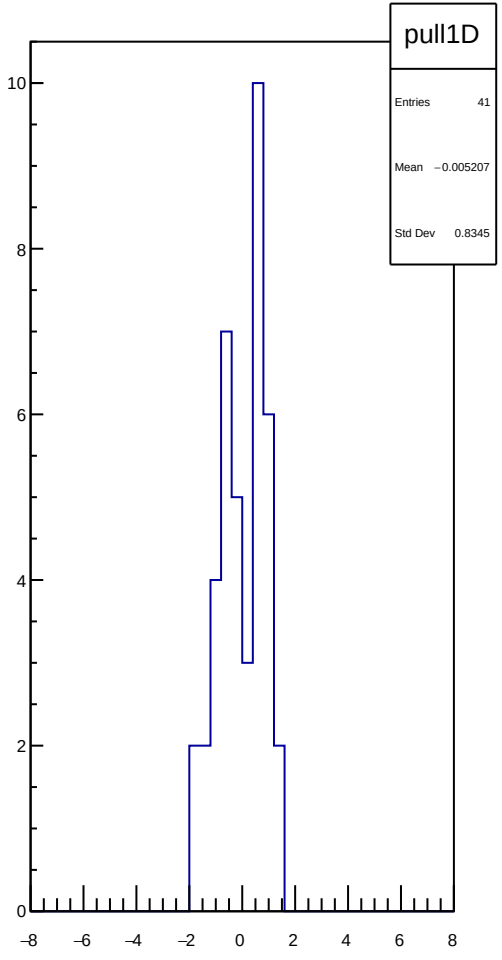

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.76 / 40
p0 63.47 ± 3.84
pull
Entries 41
Mean −368.5
Std Dev 0

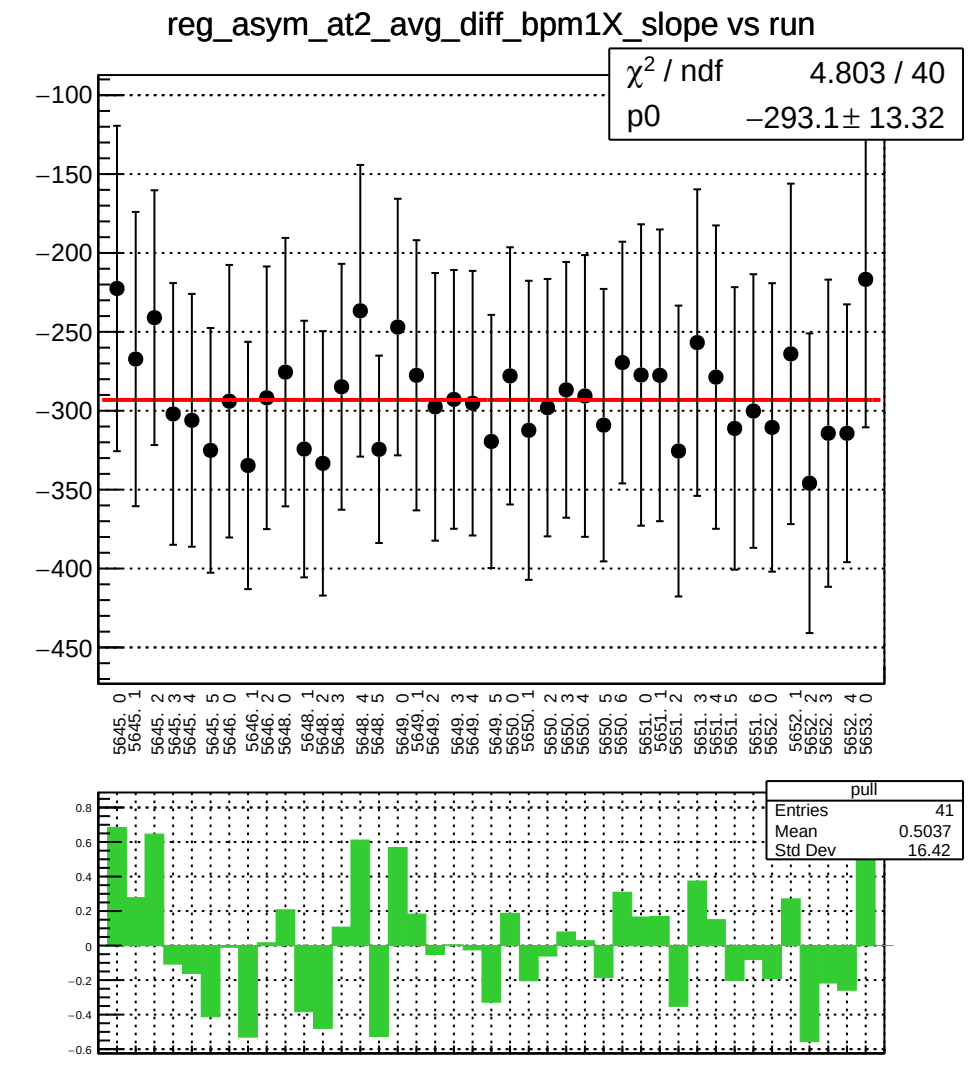

pull1D
Entries 41
Mean −0.009005
Std Dev 0.9073

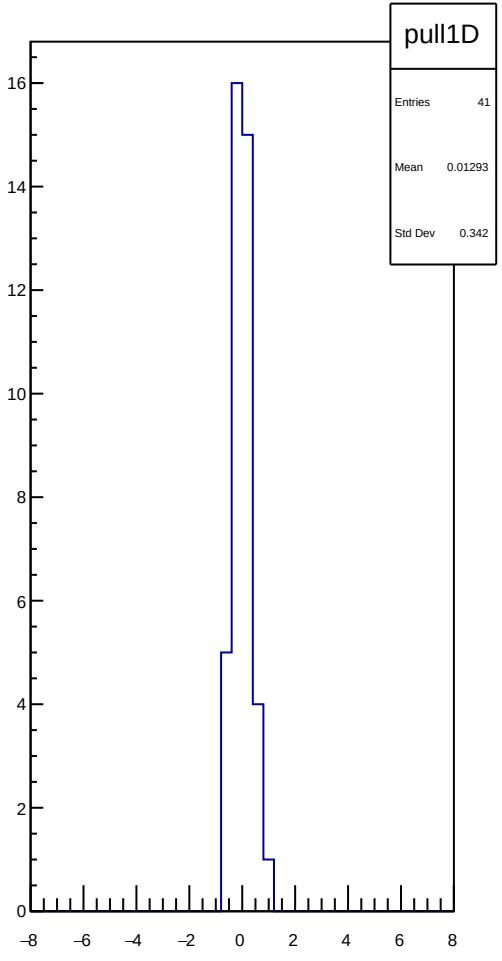

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.65 / 40
p0 −4.324 ± 4.596
pull
Entries 41
Mean 104.9
Std Dev 0

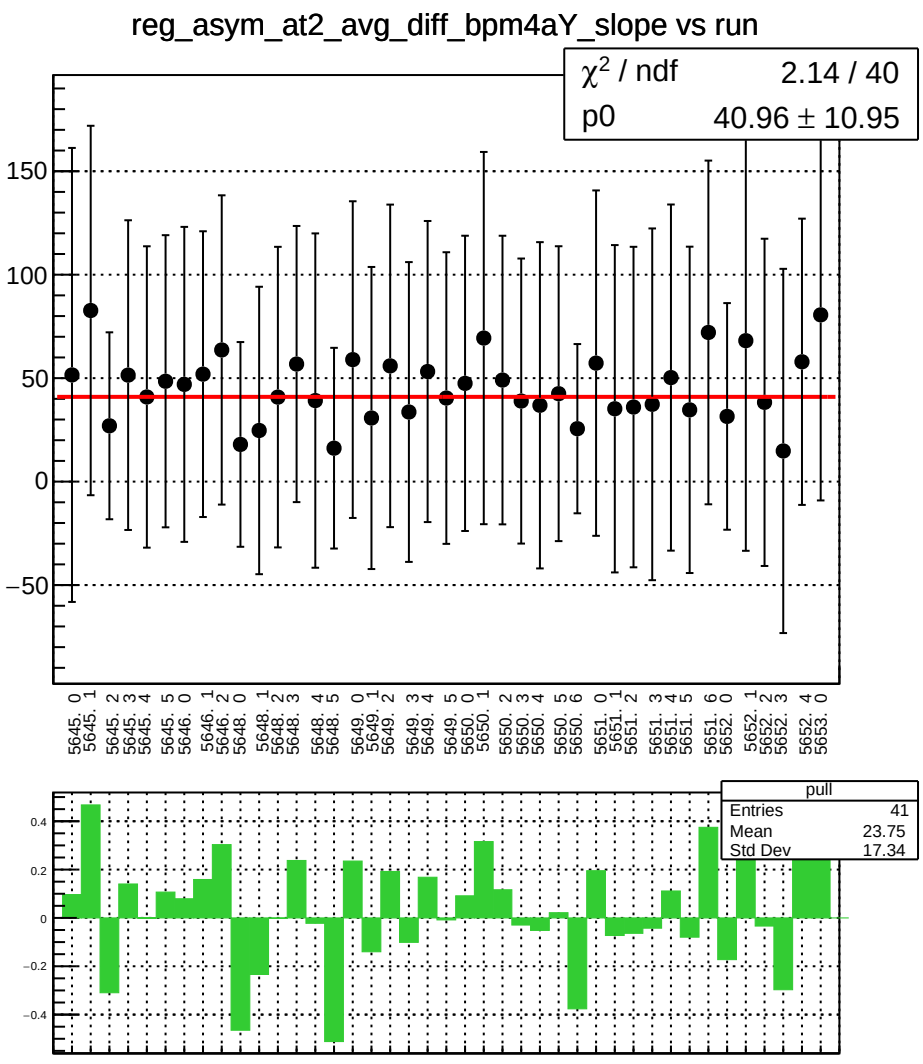

pull1D
Entries 41
Mean −0.04539
Std Dev 0.9572

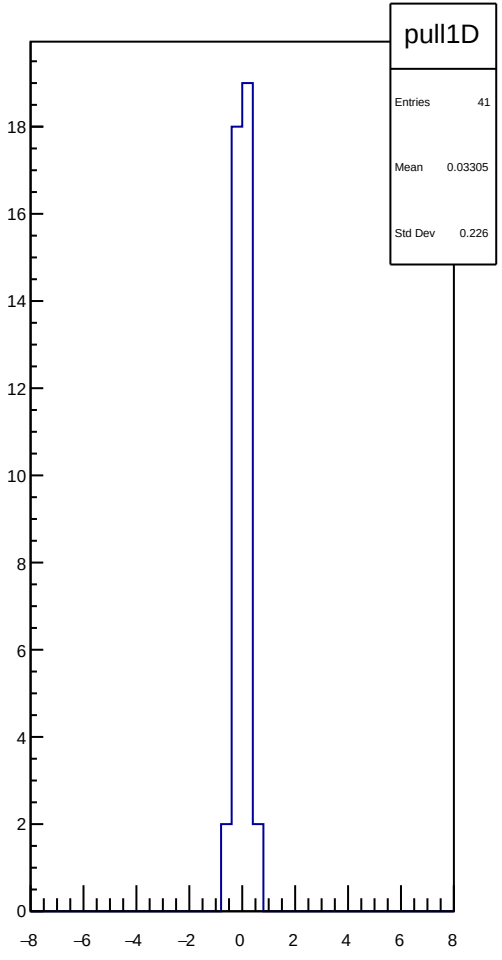

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 28.55 / 40
p0 −15.24 ± 0.1564
−13
−14
−15
−16
−17
−18
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 876.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

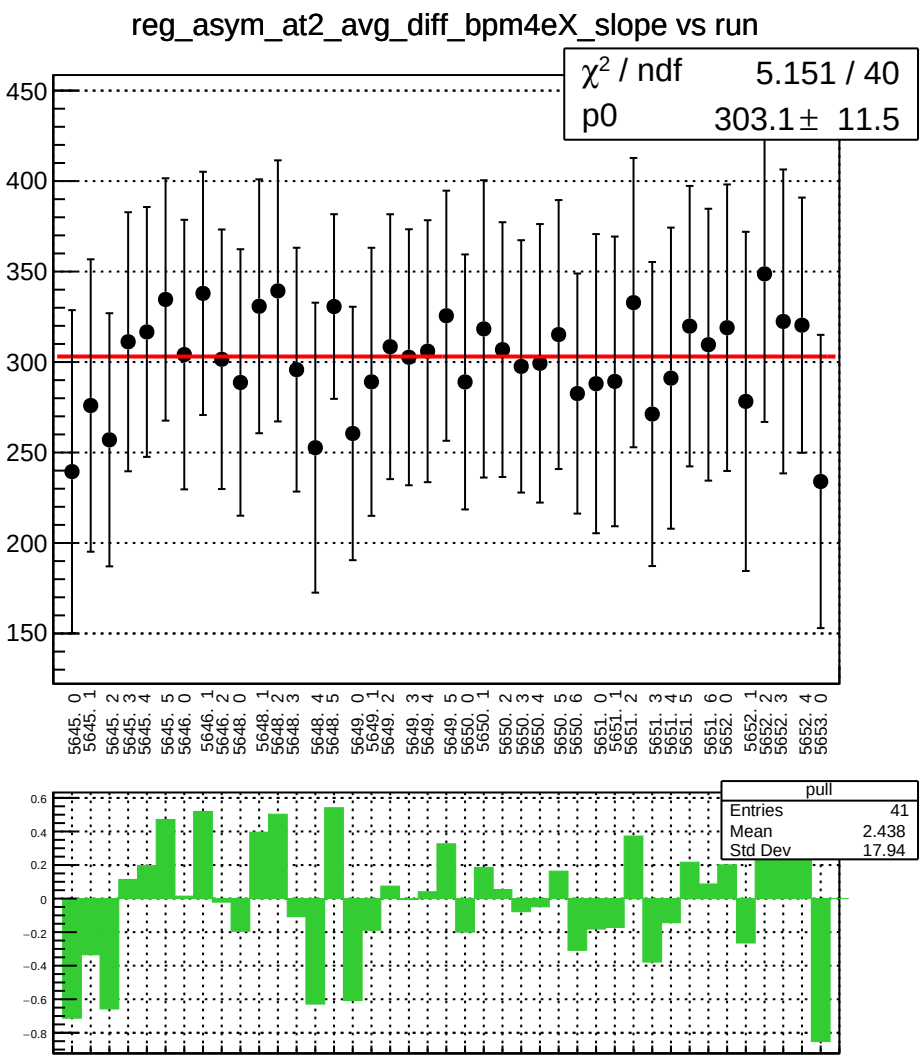

pull1D
Entries 41
Mean −0.005207
Std Dev 0.8345
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

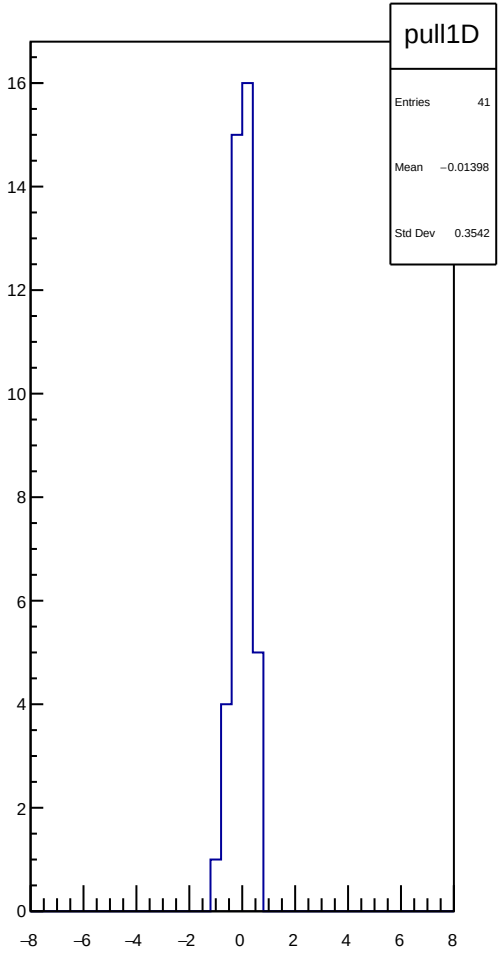

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.803 / 40
p0 −293.1± 13.32
pull
Entries 41
Mean 0.5037
Std Dev 16.42

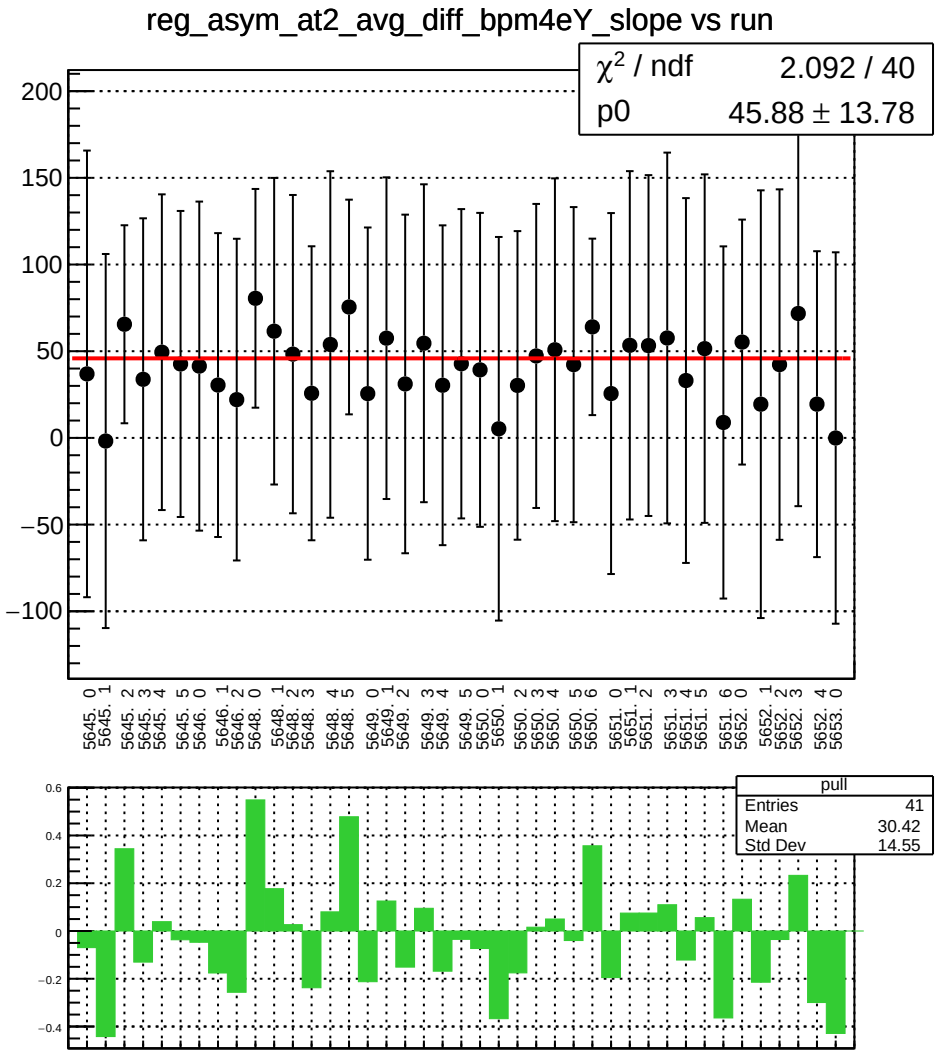

pull1D
Entries 41
Mean 0.01293
Std Dev 0.342

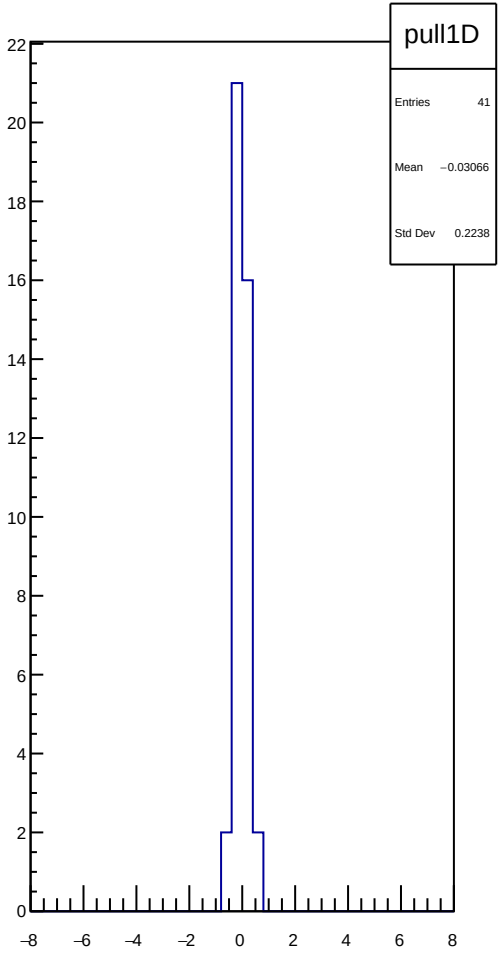

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.14 / 40
p0 40.96 ± 10.95
150
100
50
0
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 23.75
Std Dev 17.34
0.4
0.2
0
−0.2
−0.4

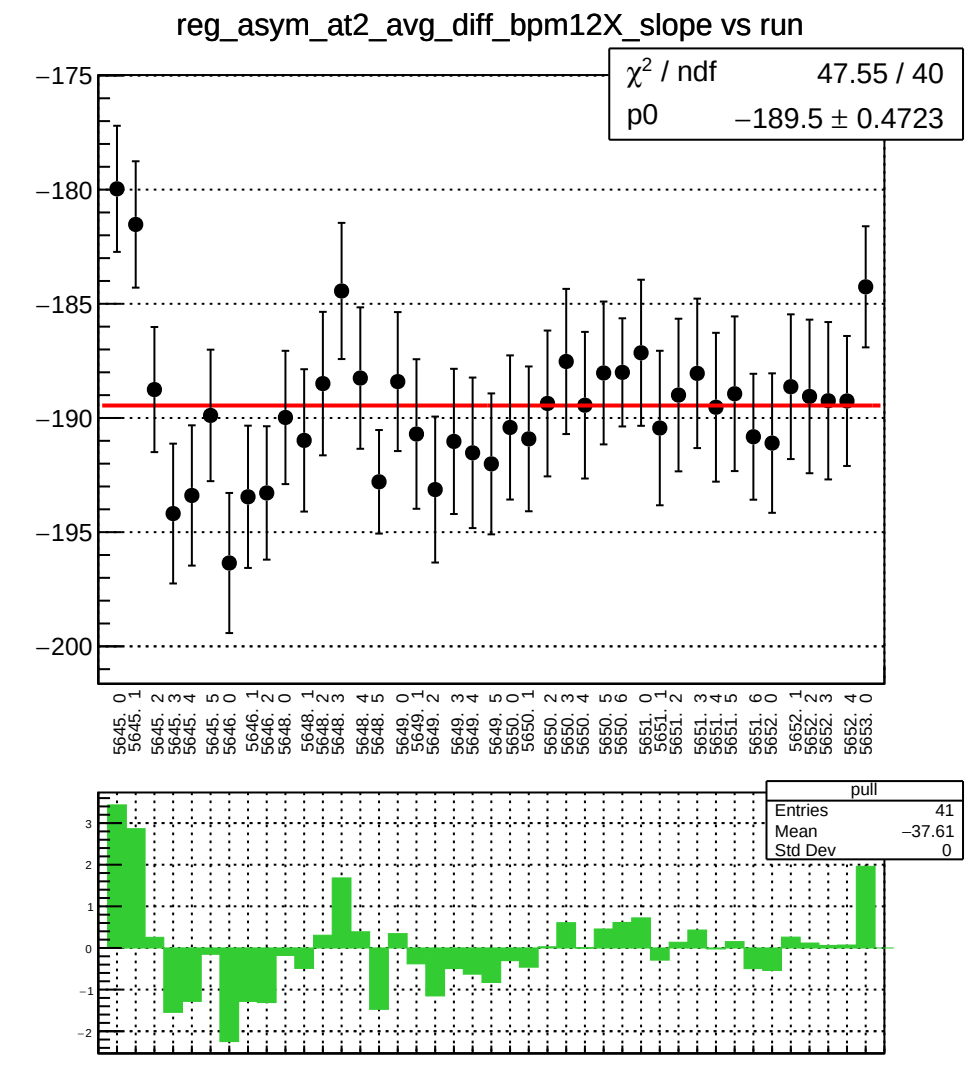

pull1D
Entries 41
Mean 0.03305
Std Dev 0.226
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

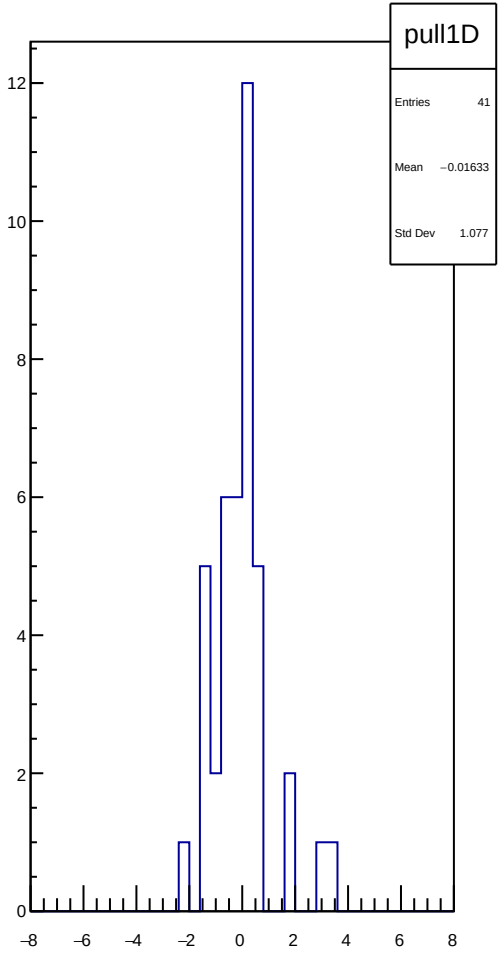

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.151 / 40
p0 303.1 ± 11.5
pull
Entries 41
Mean 2.438
Std Dev 17.94

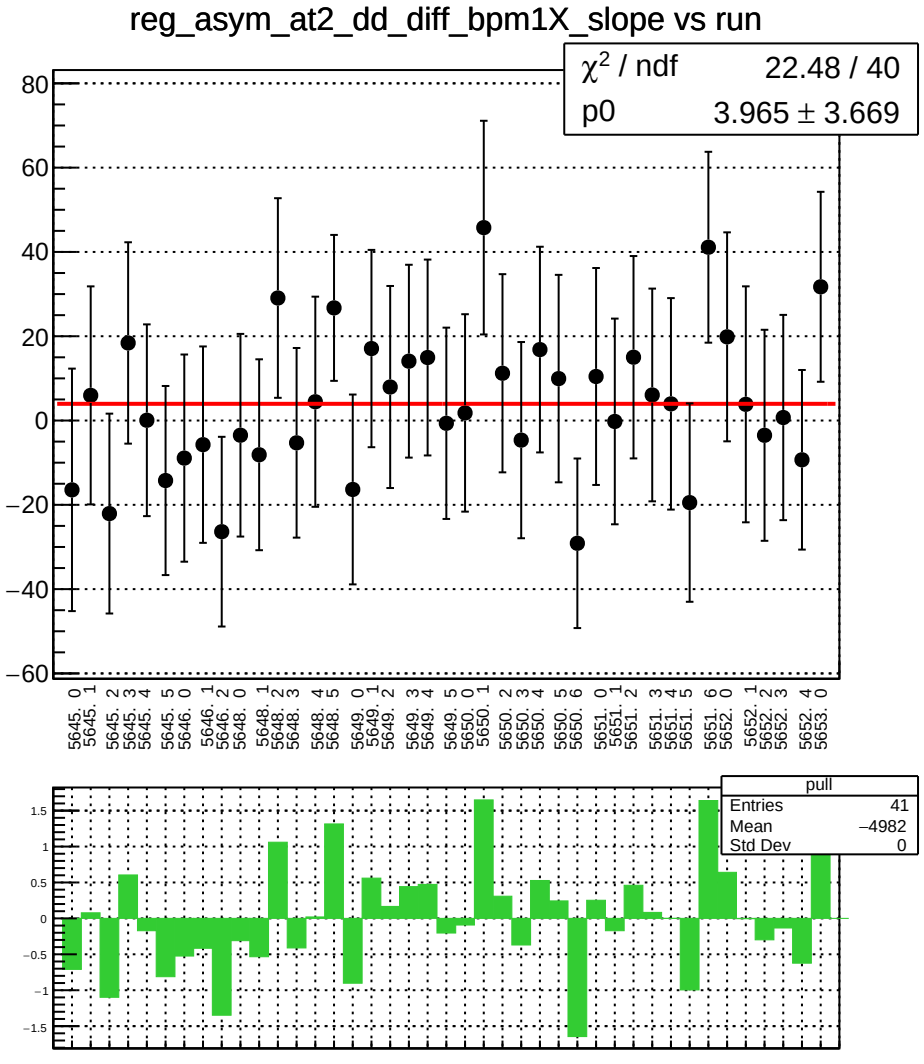

pull1D
Entries 41
Mean −0.01398
Std Dev 0.3542

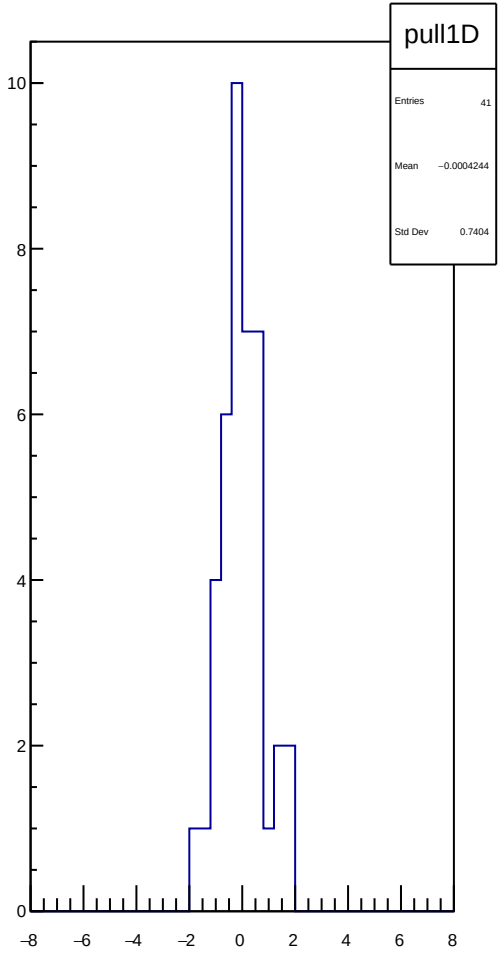

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.092 / 40
p0 45.88 ± 13.78
200
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 30.42
Std Dev 14.55
0.6
0.4
0.2
0
−0.2
−0.4

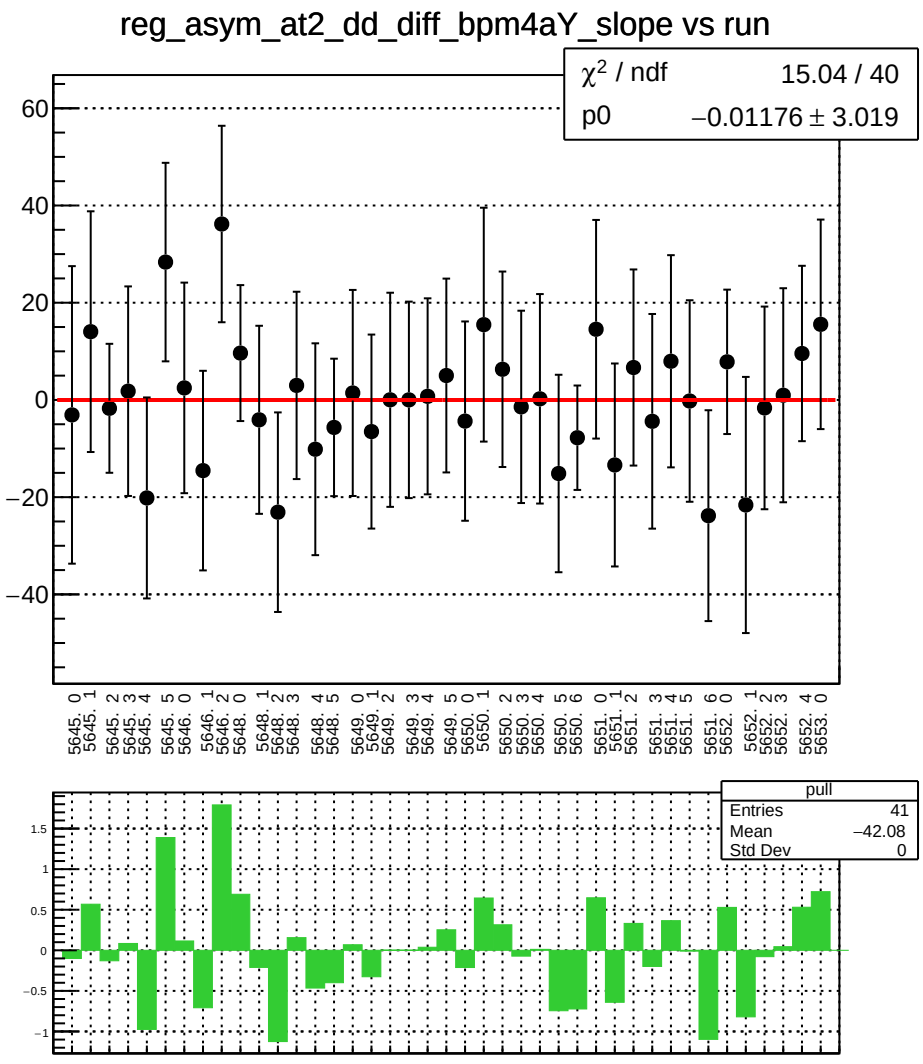

pull1D
Entries 41
Mean −0.03066
Std Dev 0.2238
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

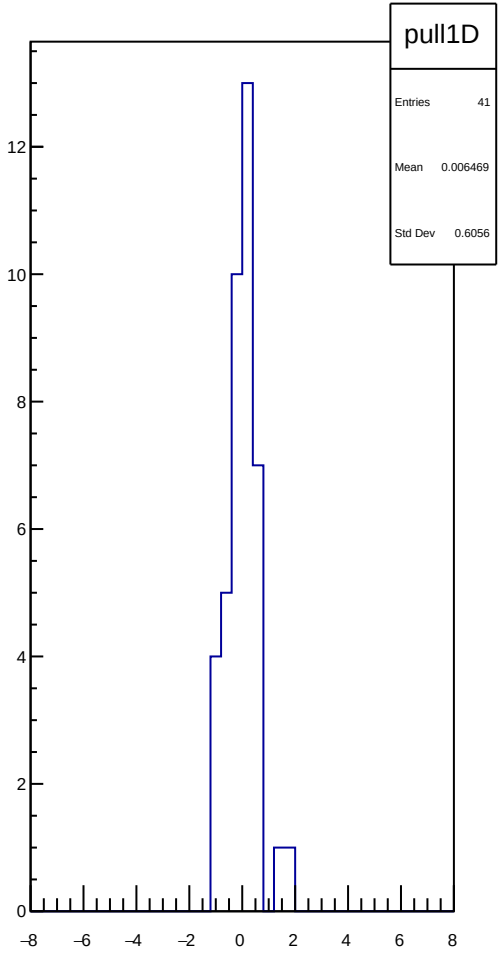

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 47.55 / 40
p0 −189.5 ± 0.4723
pull
Entries 41
Mean −37.61
Std Dev 0

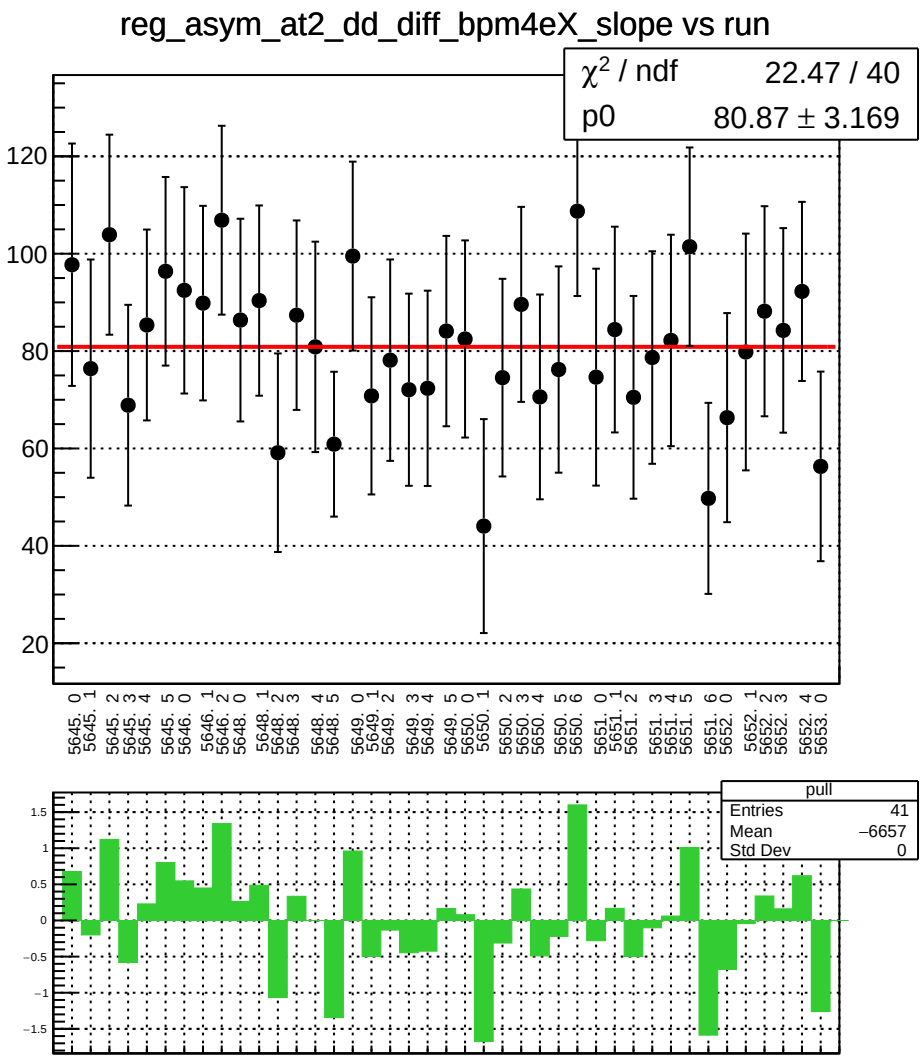

pull1D
Entries 41
Mean −0.01633
Std Dev 1.077

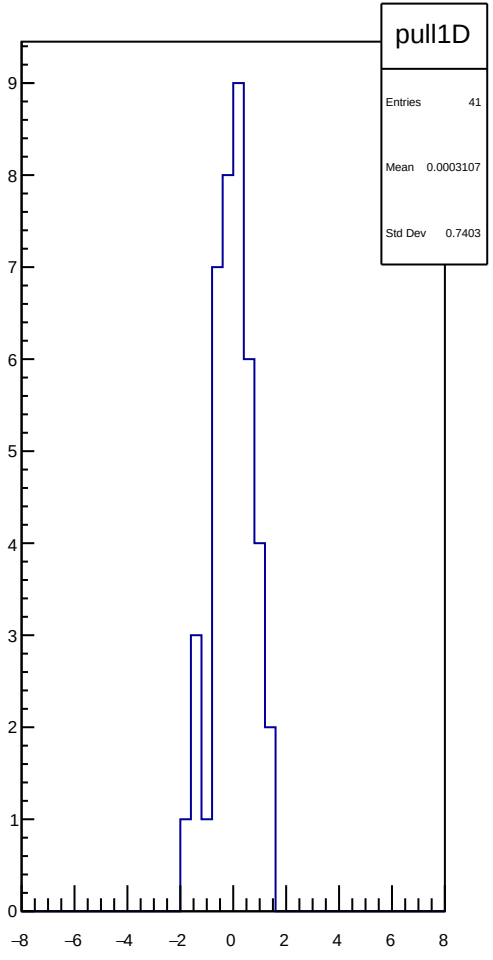

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.48 / 40
p0 3.965 ± 3.669
pull
Entries 41
Mean −4982
Std Dev 0

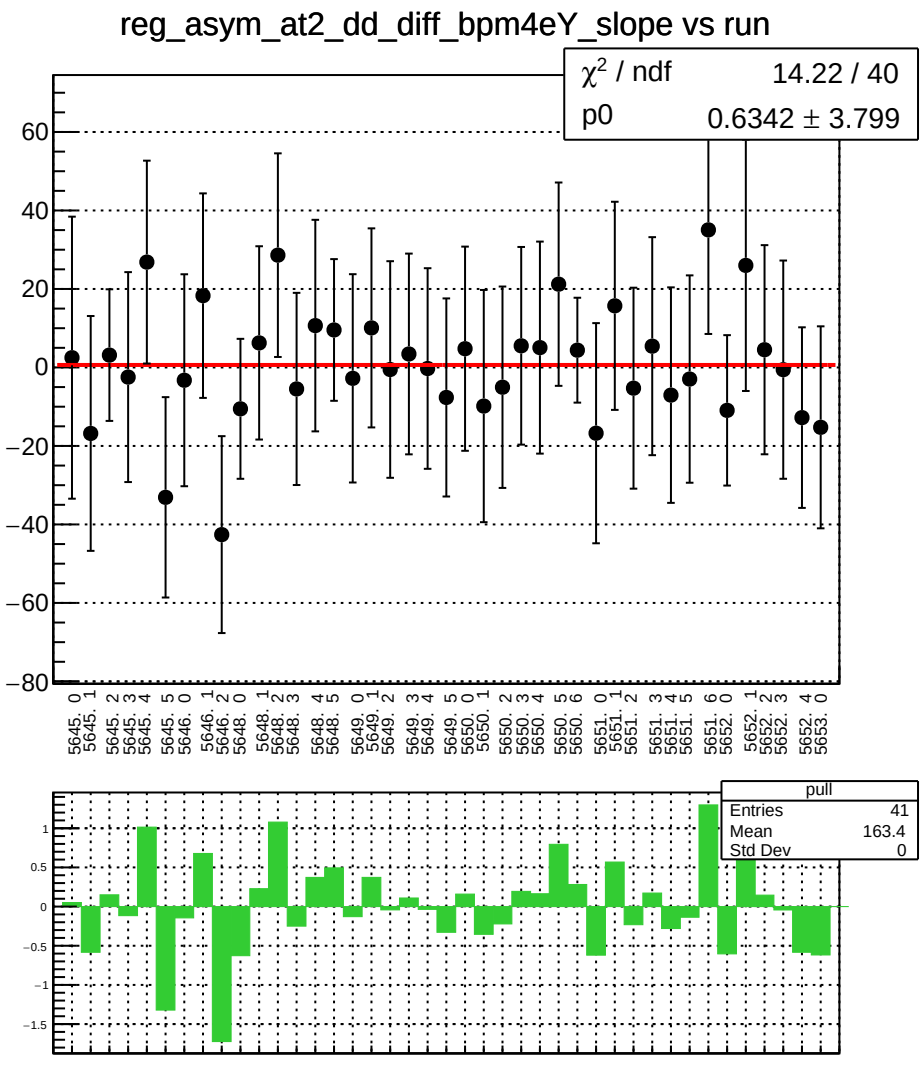

pull1D
Entries 41
Mean −0.0004244
Std Dev 0.7404

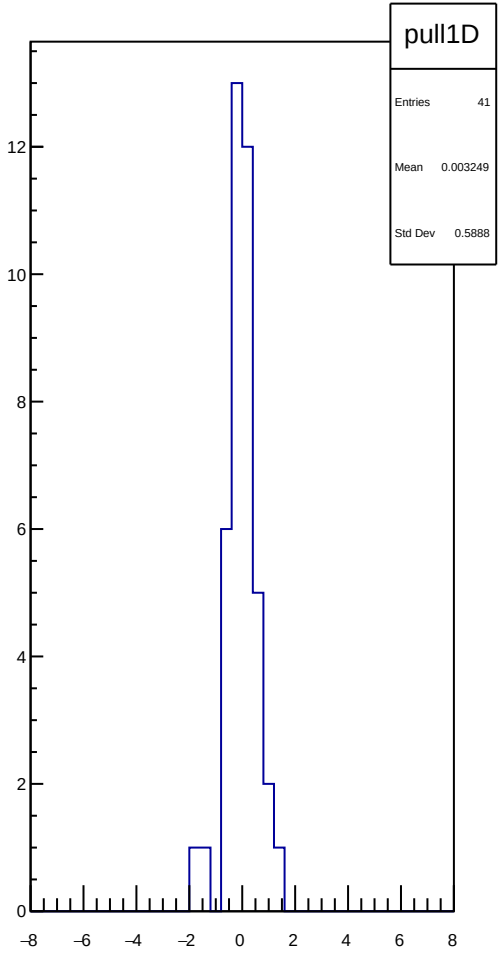

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.04 / 40
p0 −0.01176 ± 3.019
pull
Entries 41
Mean −42.08
Std Dev 0

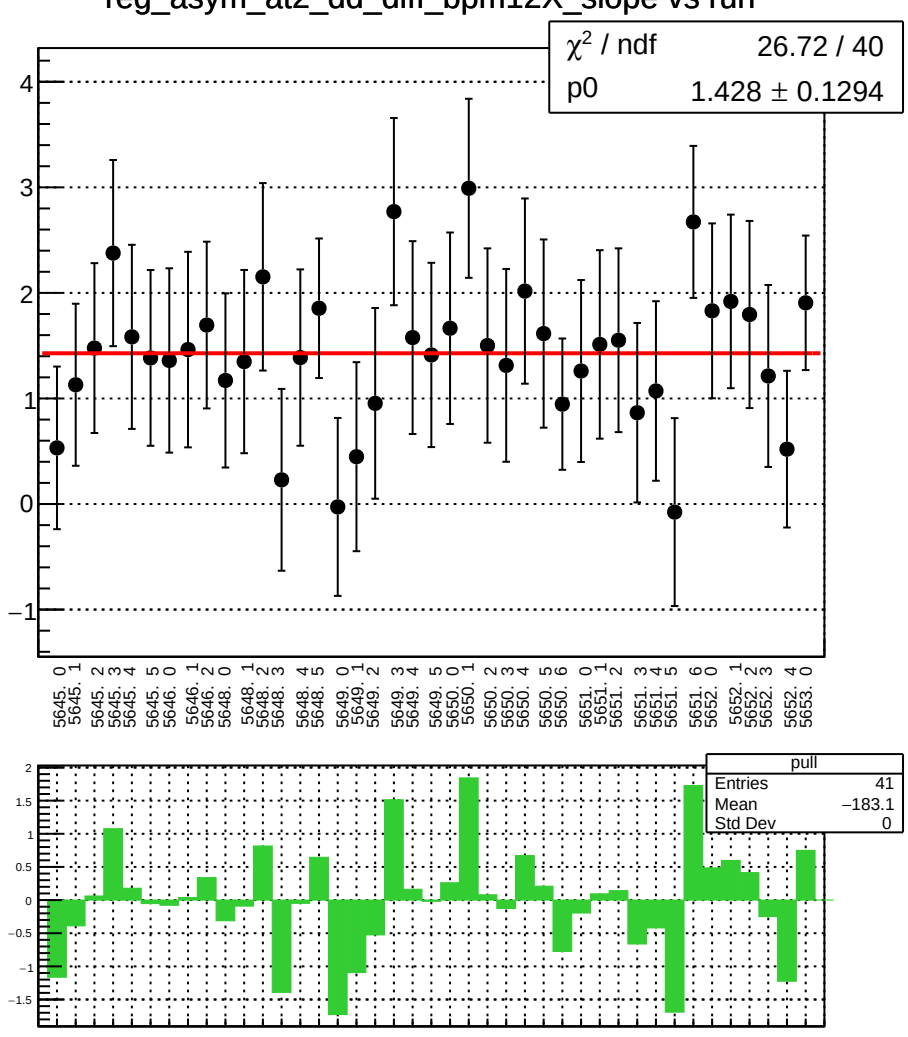

pull1D
Entries 41
Mean 0.006469
Std Dev 0.6056

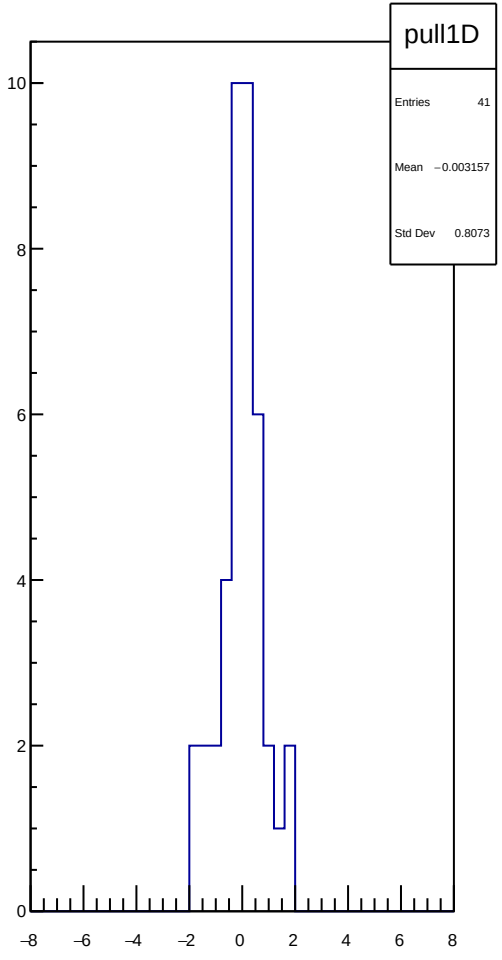

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 22.47 / 40
p0 80.87 ± 3.169
120
100
80
60
40
20
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −6657
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

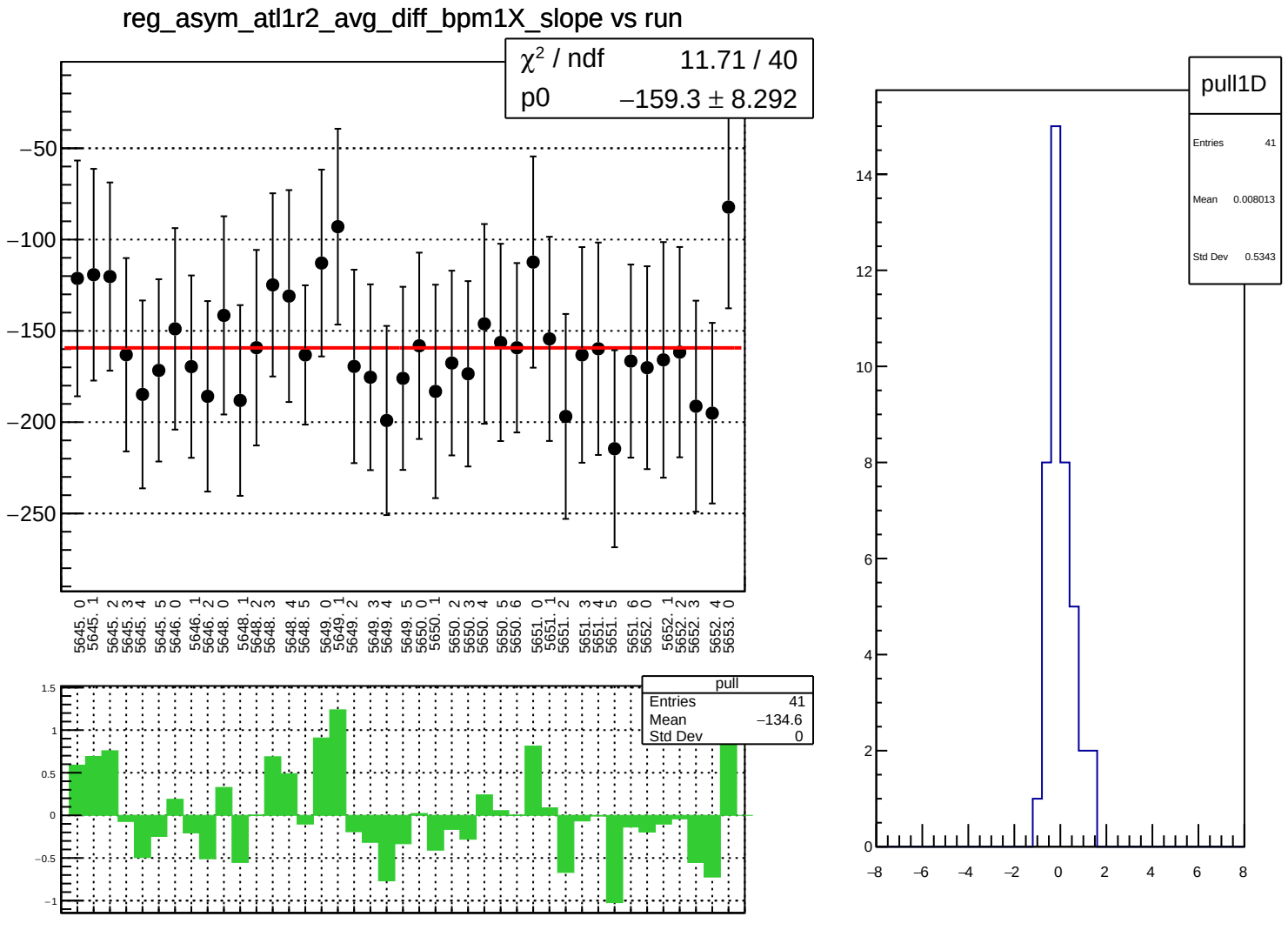

pull1D
Entries 41
Mean 0.0003107
Std Dev 0.7403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

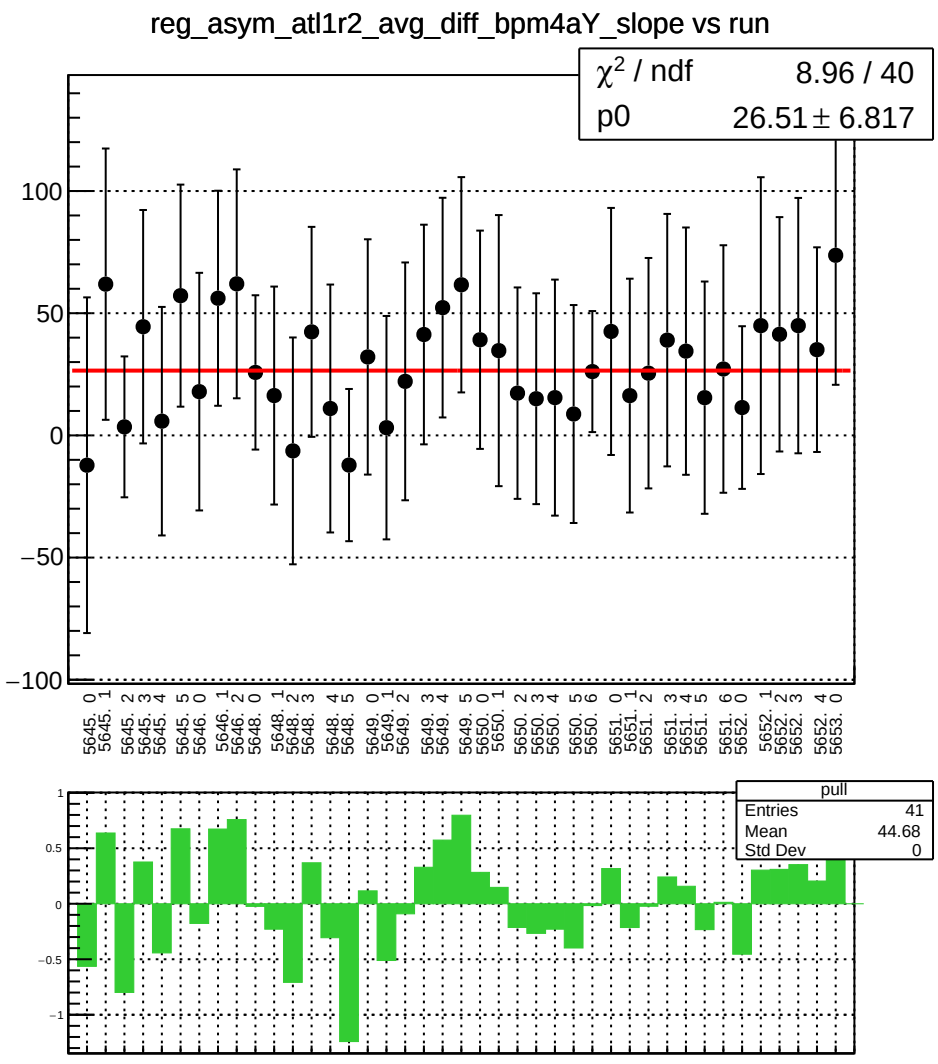

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.22 / 40
p0 0.6342 ± 3.799
pull
Entries 41
Mean 163.4
Std Dev 0

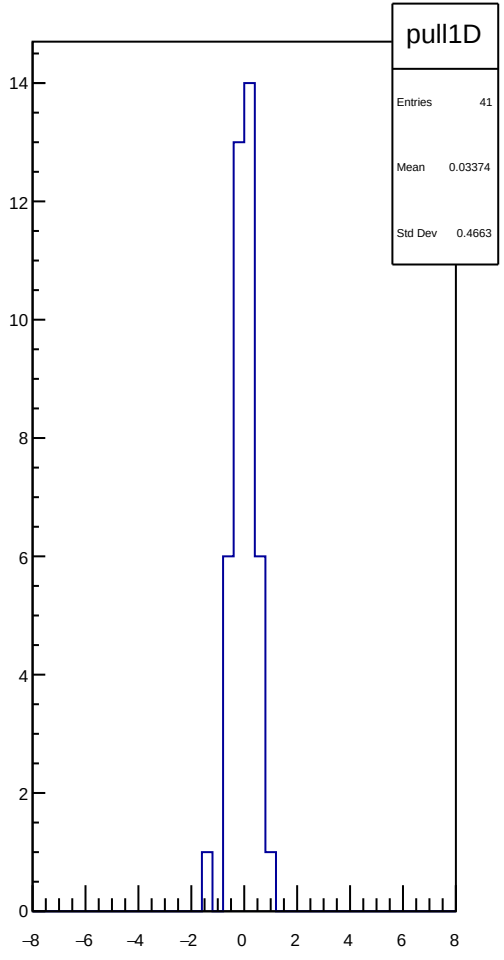

pull1D
Entries 41
Mean 0.003249
Std Dev 0.5888

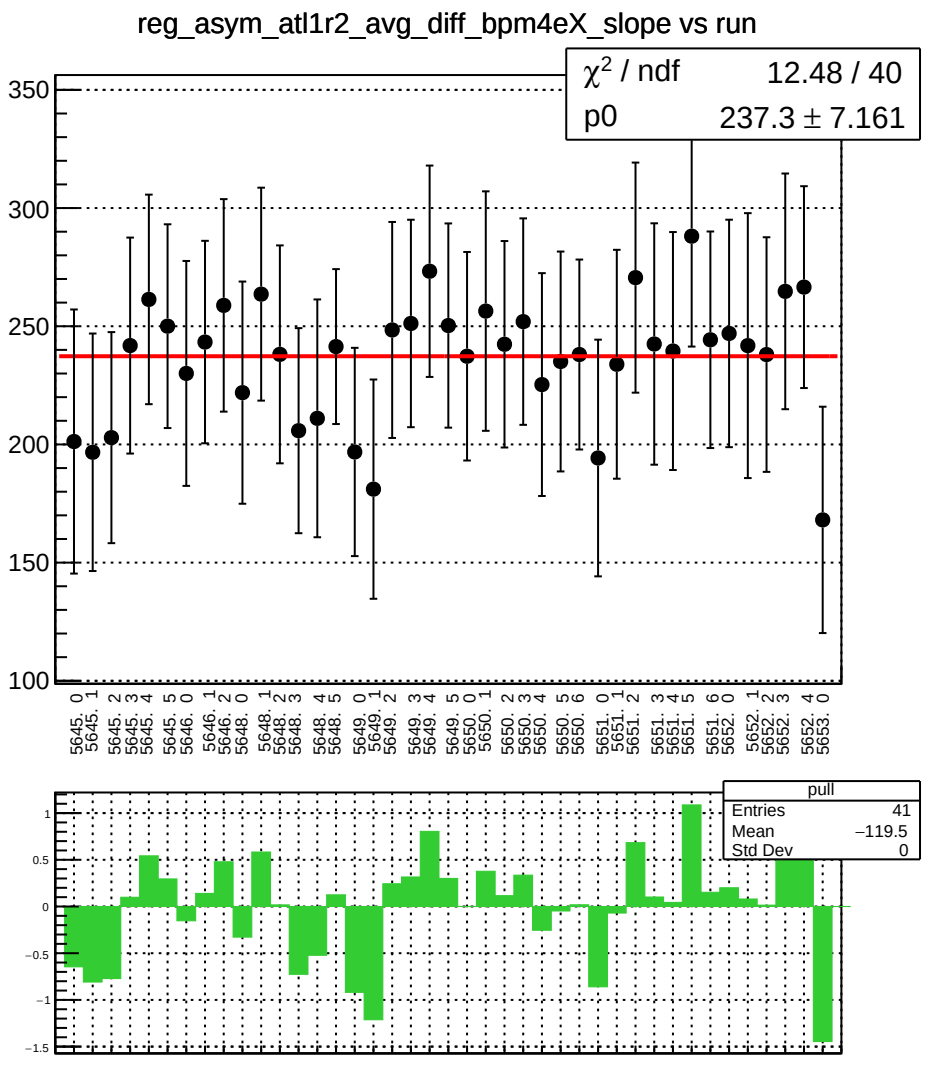

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.72 / 40
p0 1.428 ± 0.1294
pull
Entries 41
Mean −183.1
Std Dev 0

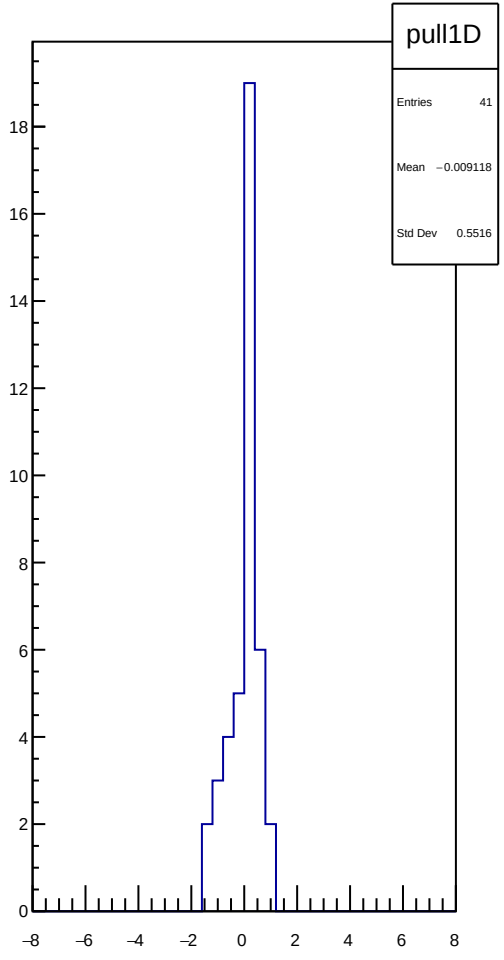

pull1D
Entries 41
Mean −0.003157
Std Dev 0.8073

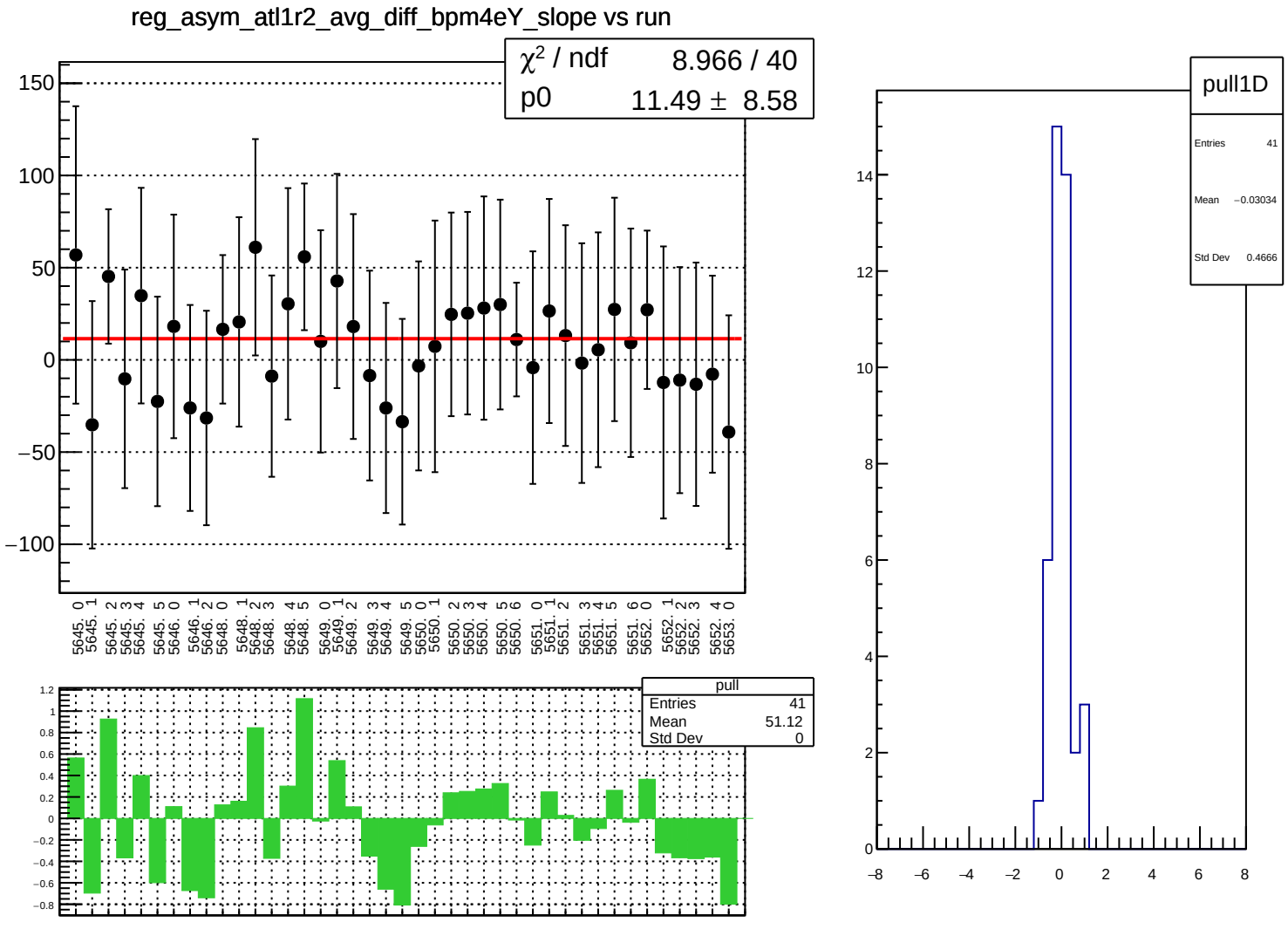

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.71 / 40
p0 −159.3 ± 8.292
−50
−100
−150
−200
−250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −134.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.008013
Std Dev 0.5343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

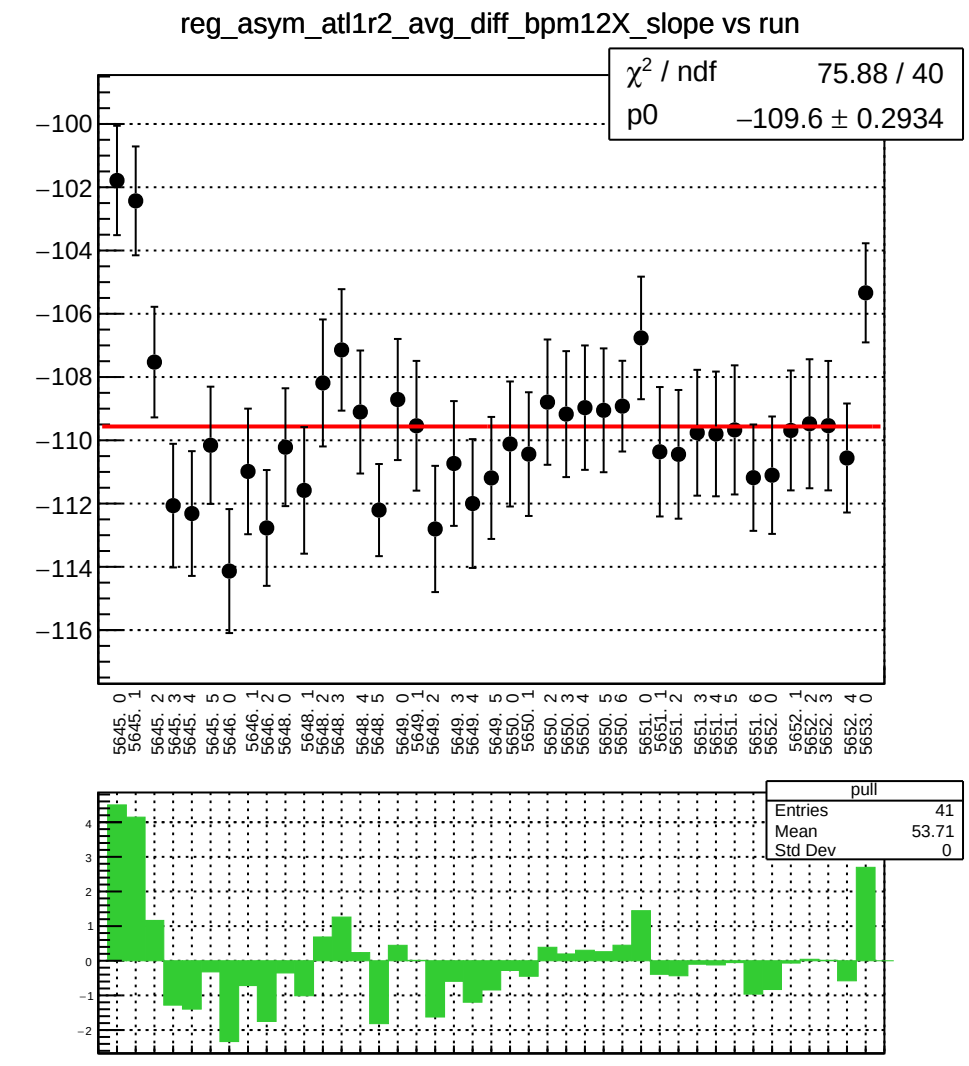

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.96 / 40
p0 26.51 ± 6.817
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 44.68
Std Dev 0
1
0.5
0
−0.5
−1

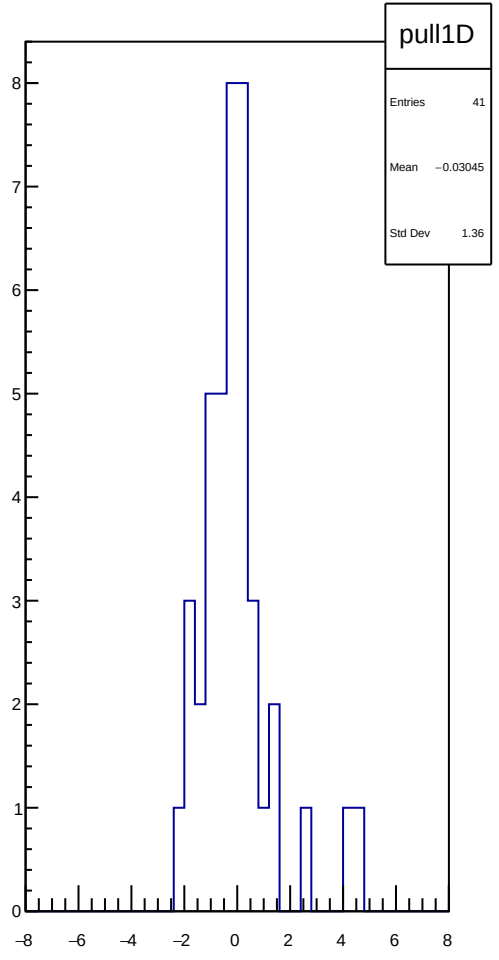

pull1D
Entries 41
Mean 0.03374
Std Dev 0.4663
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

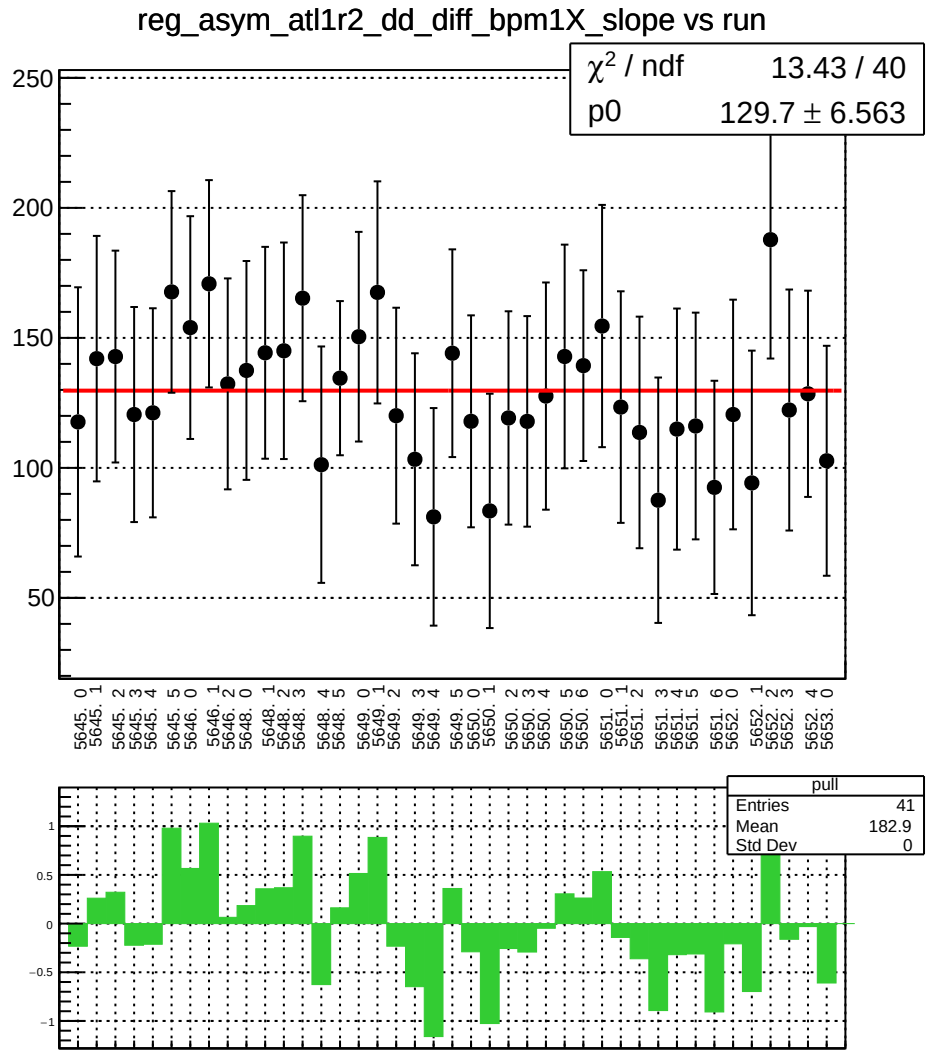

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.48 / 40
p0 237.3 ± 7.161
pull
Entries 41
Mean −119.5
Std Dev 0

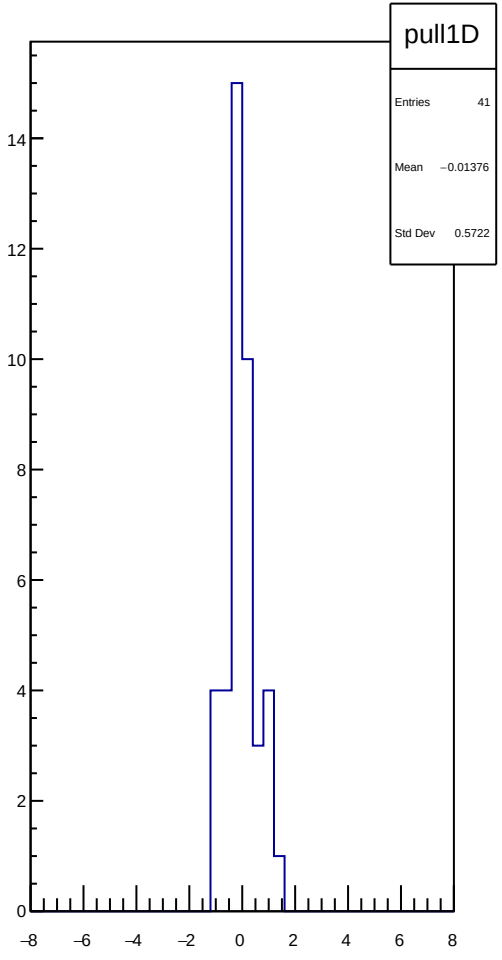

pull1D
Entries 41
Mean −0.009118
Std Dev 0.5516

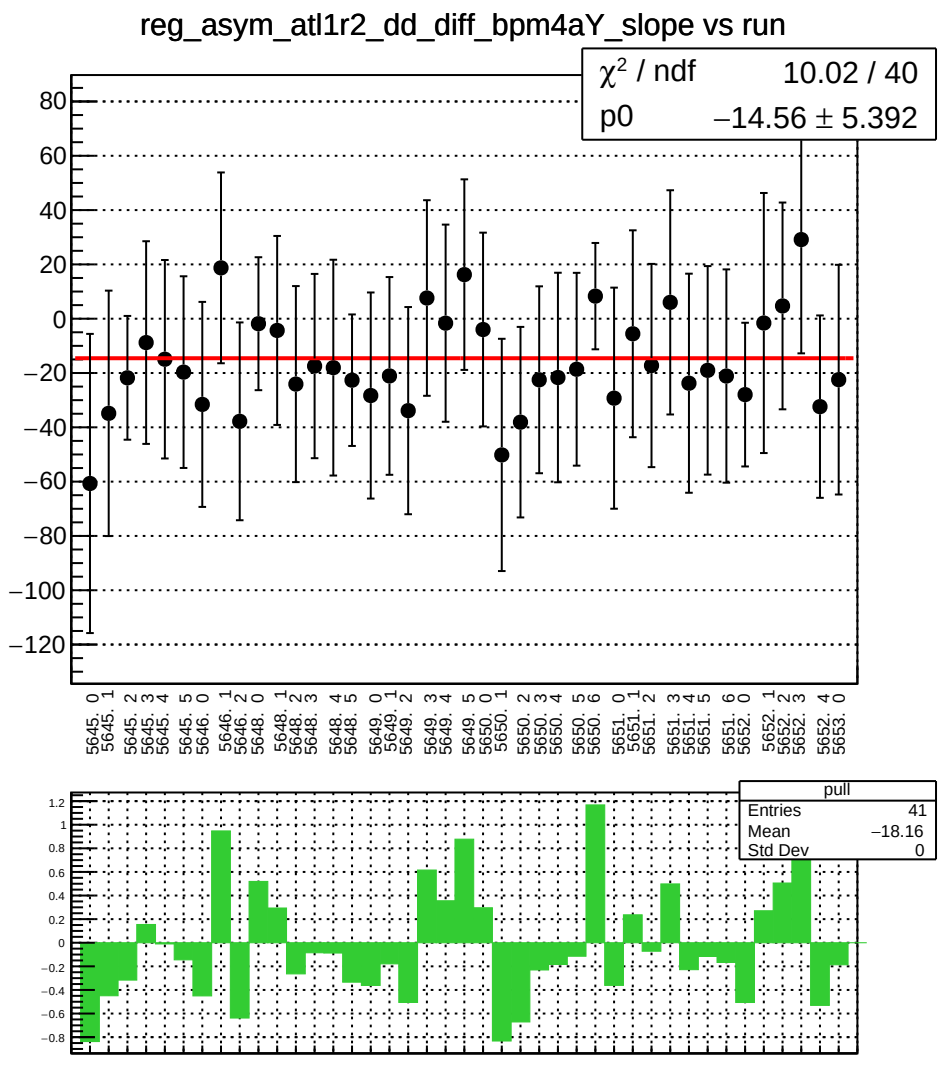

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.966 / 40
p0 11.49 ± 8.58
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 51.12
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.03034
Std Dev 0.4666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

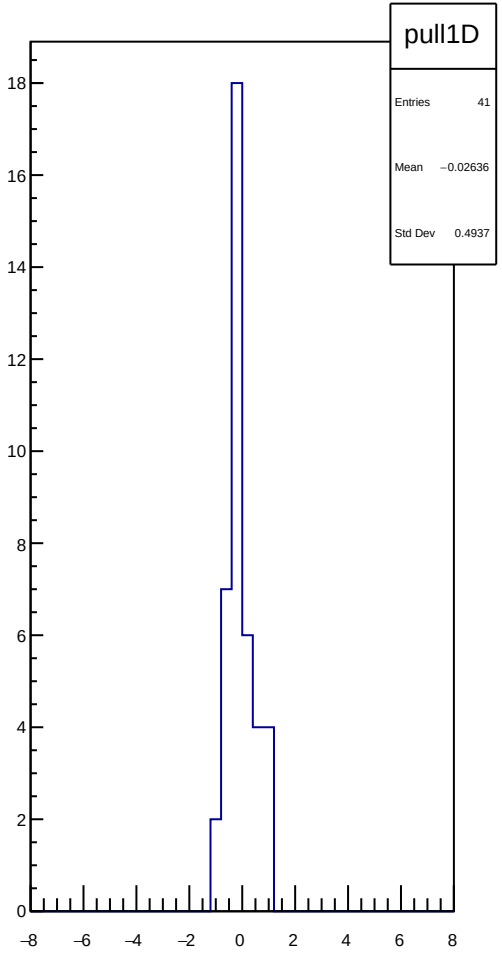

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 75.88 / 40
p0 −109.6 ± 0.2934
pull
Entries 41
Mean 53.71
Std Dev 0

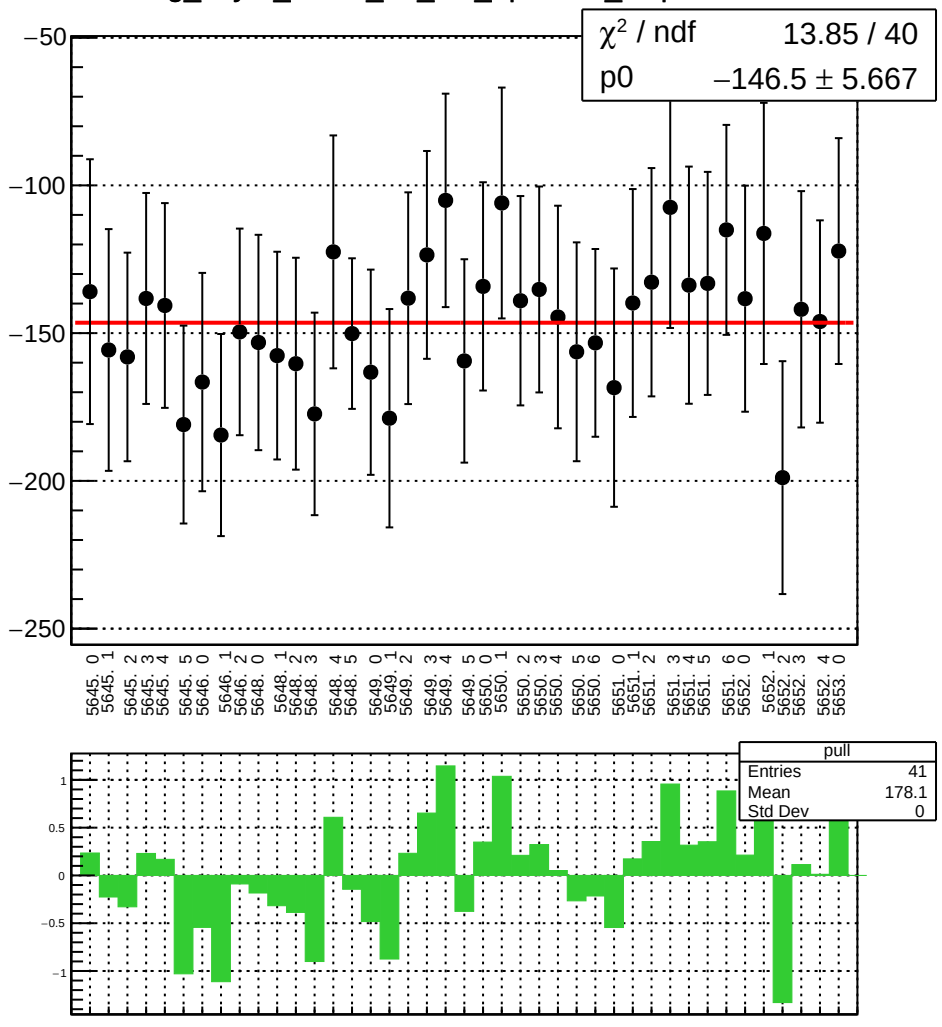

pull1D
Entries 41
Mean −0.03045
Std Dev 1.36

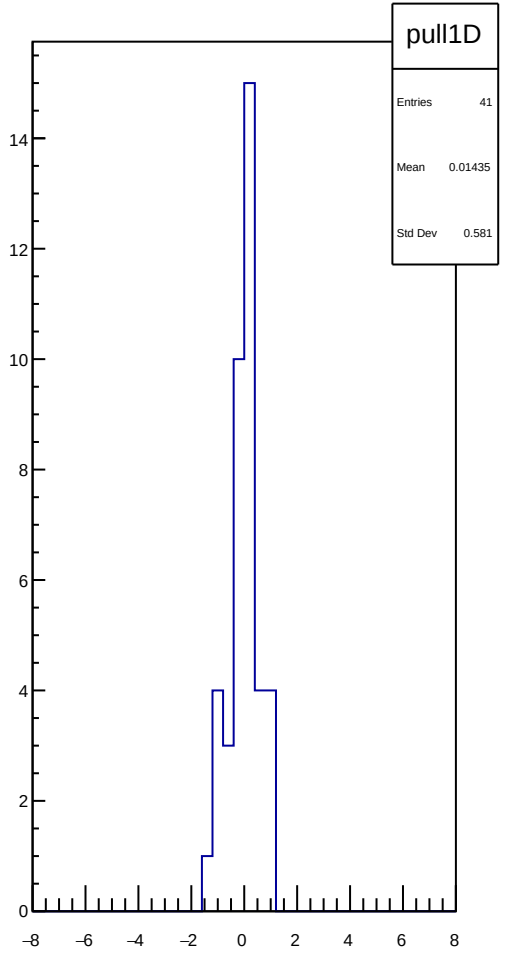

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 13.43 / 40
p0 129.7 ± 6.563
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 182.9
Std Dev 0
1
0.5
0
−0.5
−1

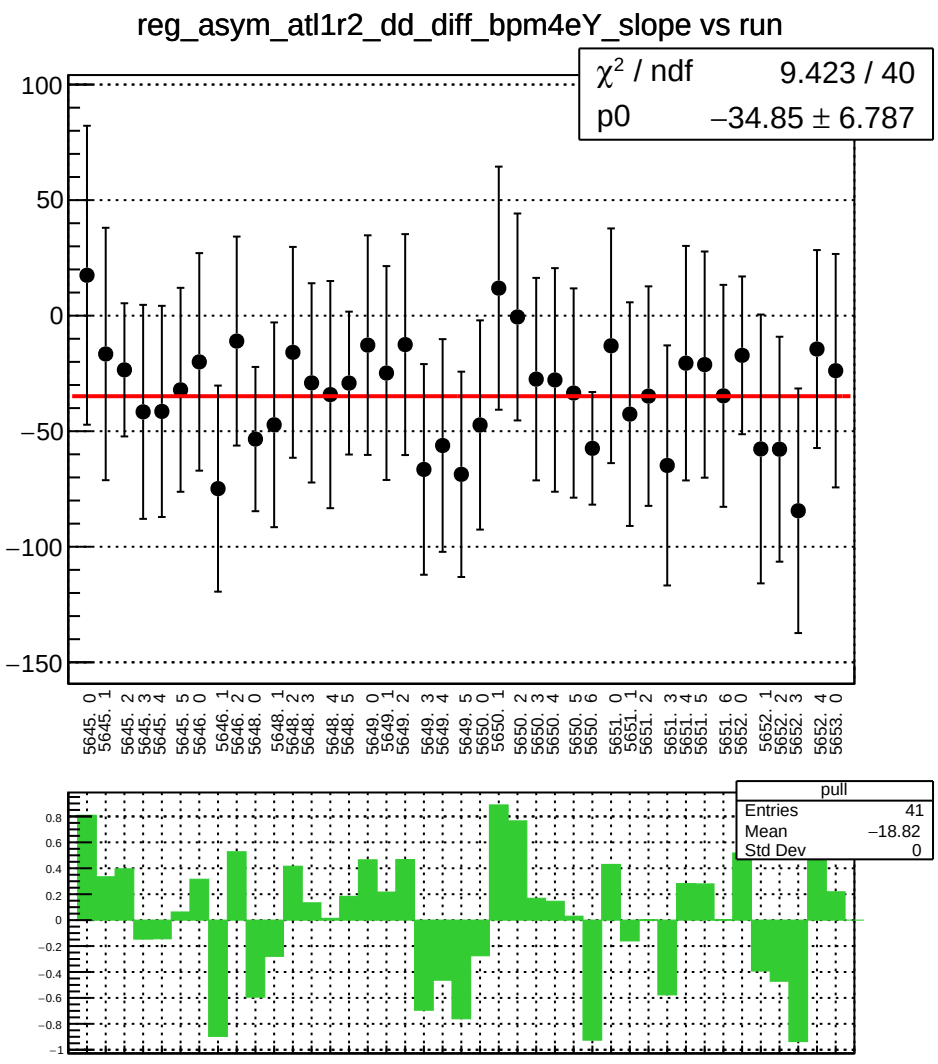

pull1D
Entries 41
Mean −0.01376
Std Dev 0.5722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

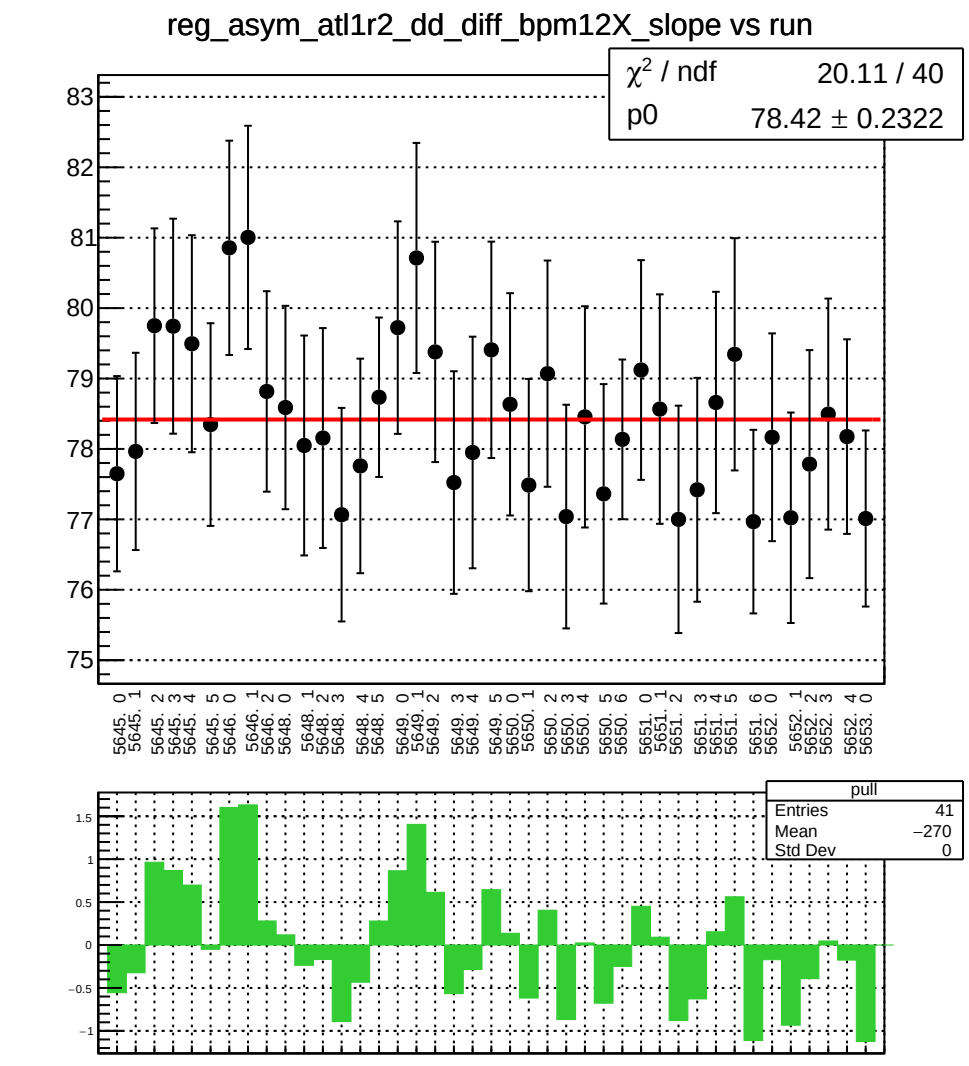

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.02 / 40
p0 −14.56 ± 5.392
pull
Entries 41
Mean −18.16
Std Dev 0

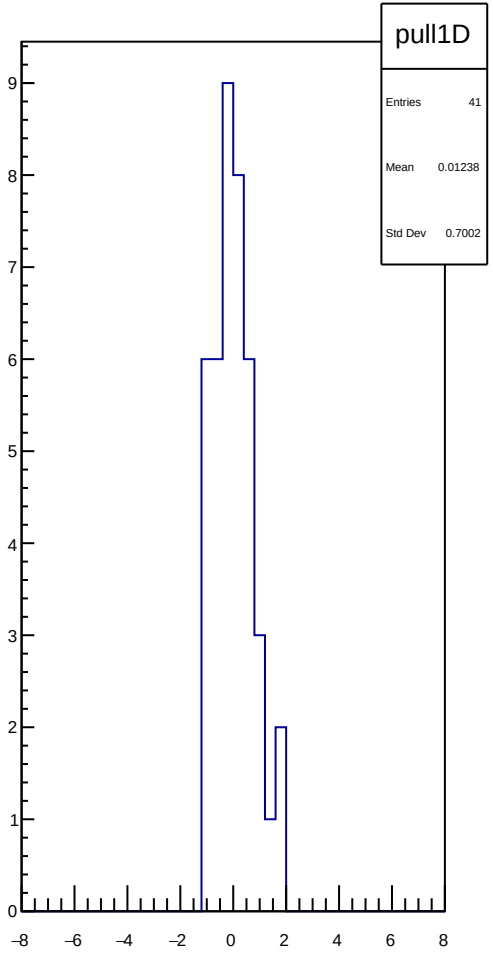

pull1D
Entries 41
Mean −0.02636
Std Dev 0.4937

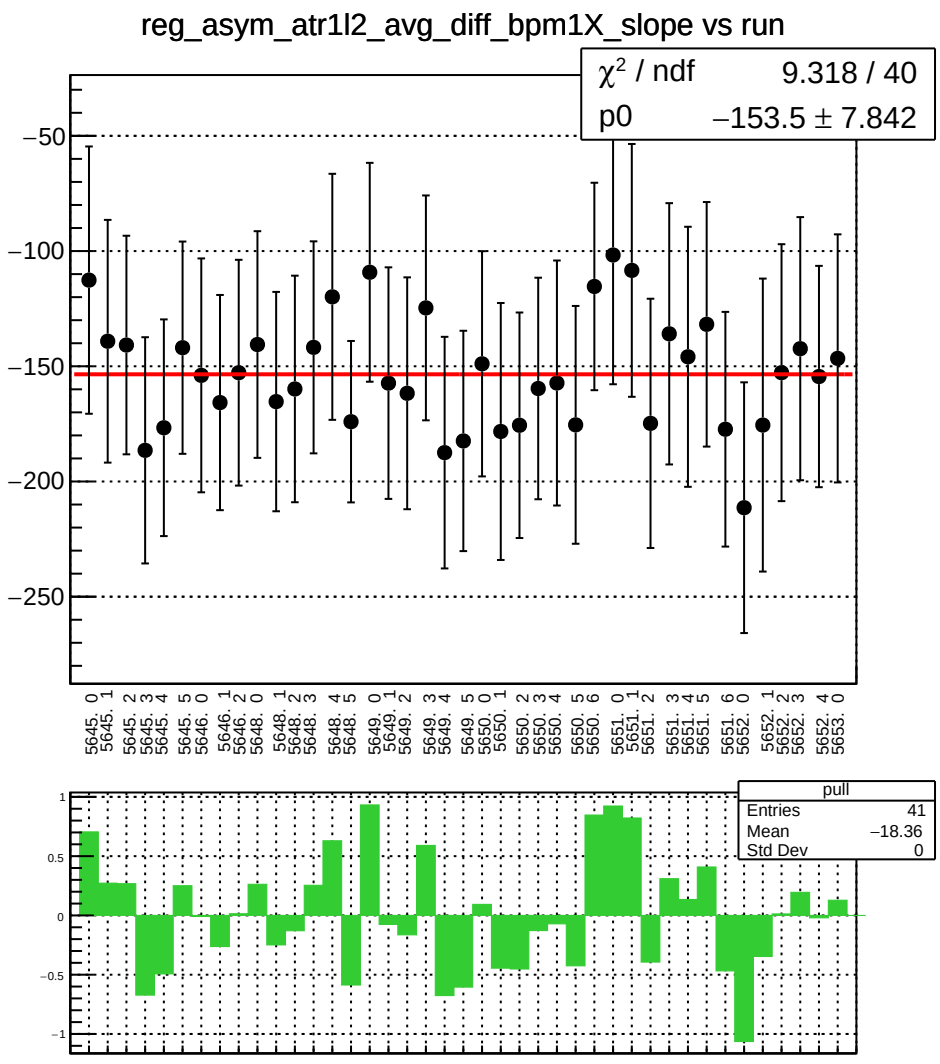

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.85 / 40
p0 −146.5 ± 5.667
−50
−100
−150
−200
−250
pull
Entries 41
Mean 178.1
Std Dev 0
1
0.5
0
−0.5
−1

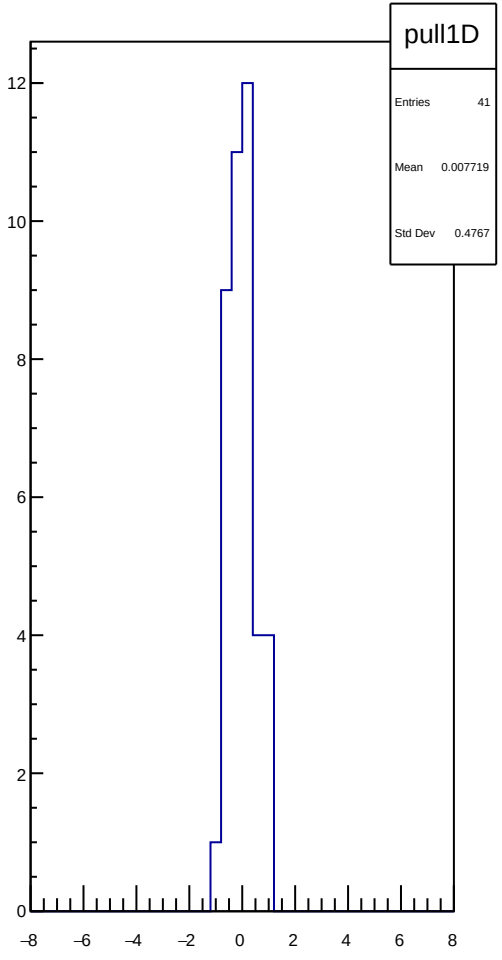

pull1D
Entries 41
Mean 0.01435
Std Dev 0.581
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

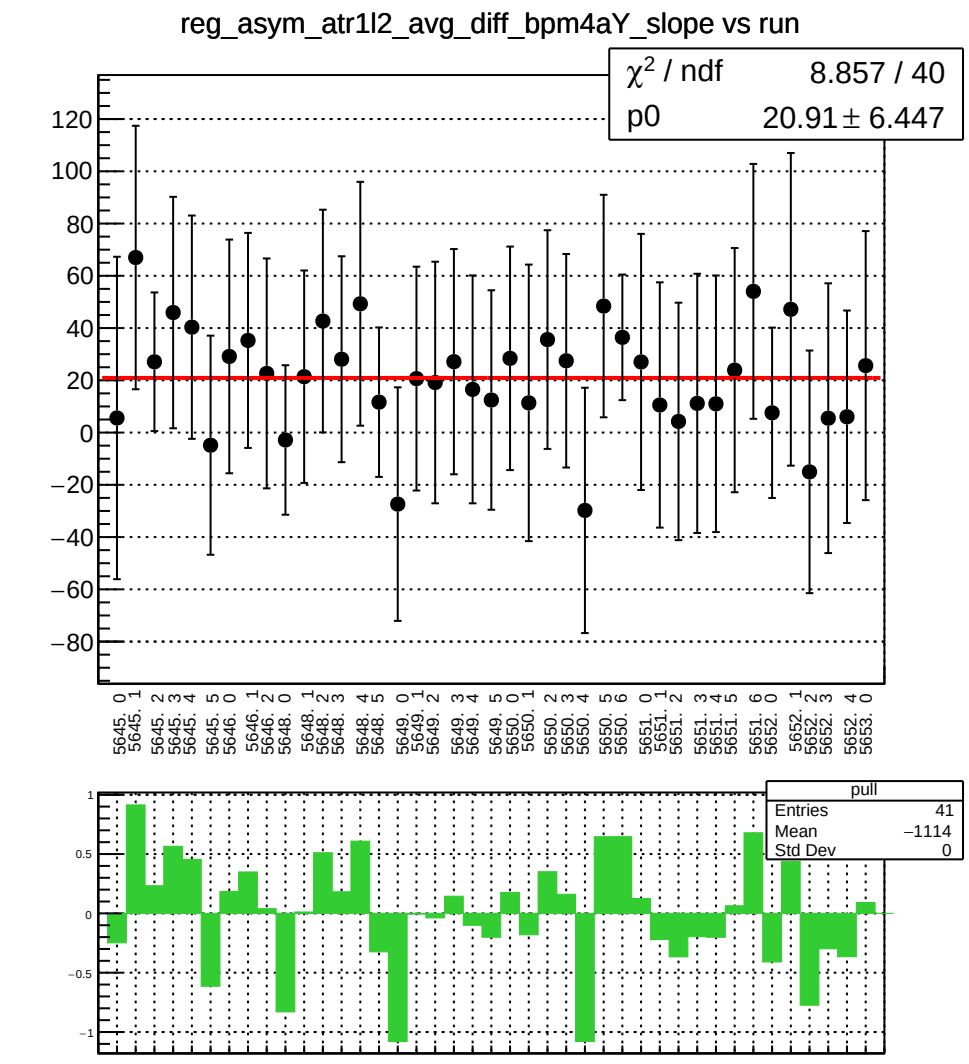

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.423 / 40
p0 −34.85 ± 6.787
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −18.82
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean 0.02027
Std Dev 0.479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

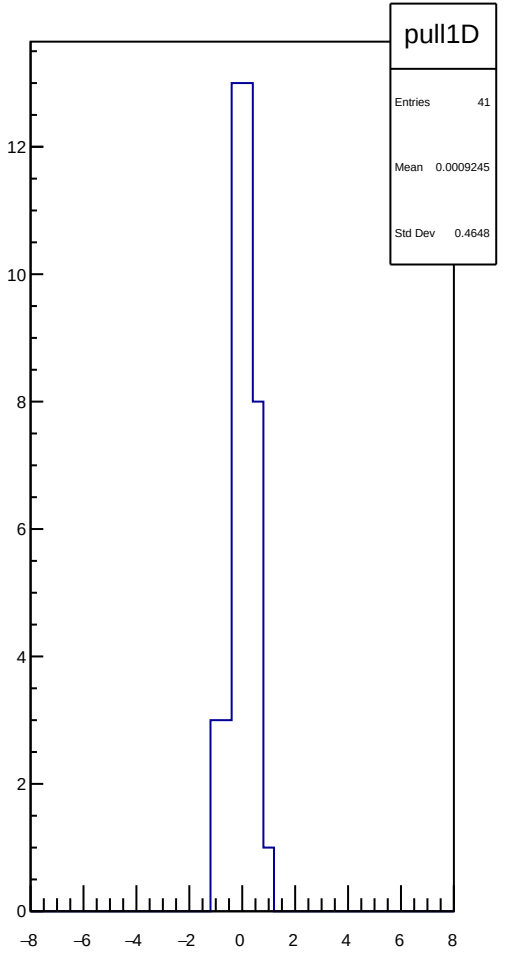

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.11 / 40
p0 78.42 ± 0.2322
pull
Entries 41
Mean −270
Std Dev 0

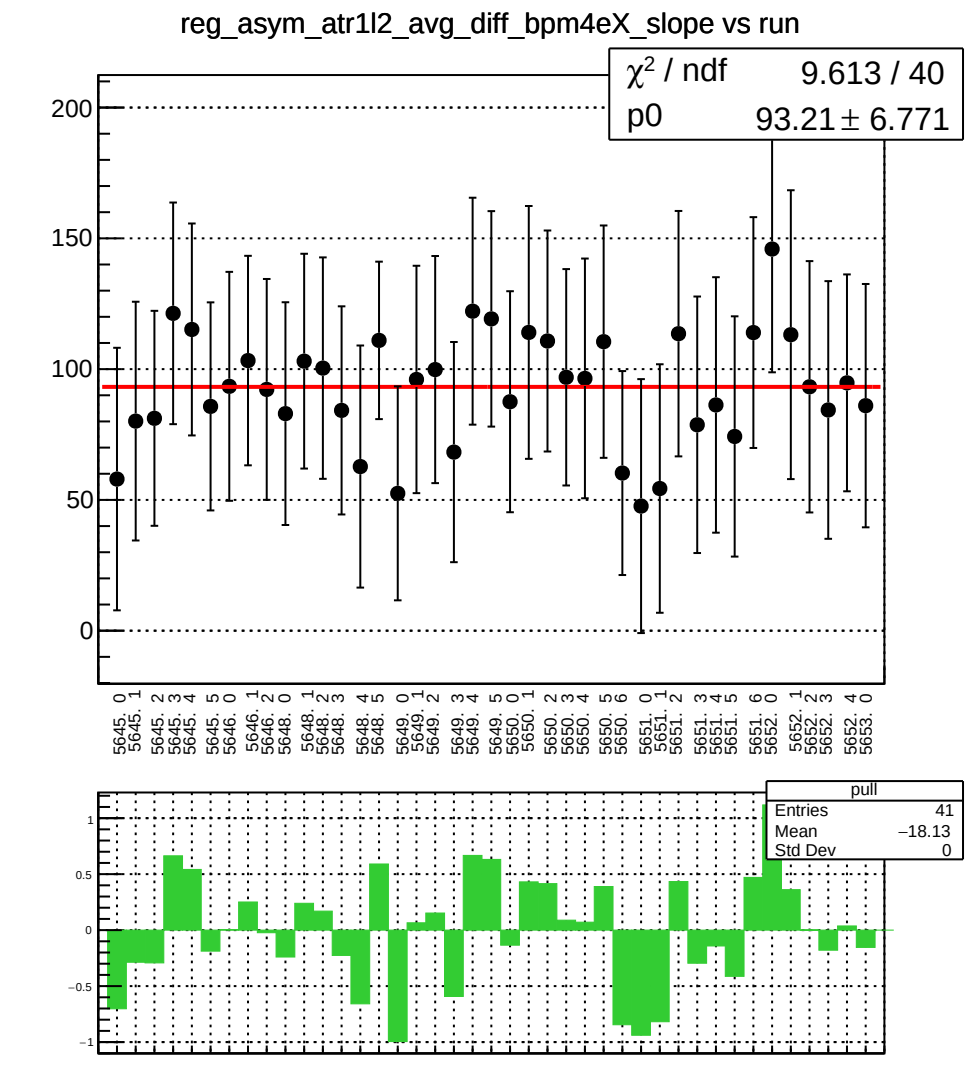

pull1D
Entries 41
Mean 0.01238
Std Dev 0.7002

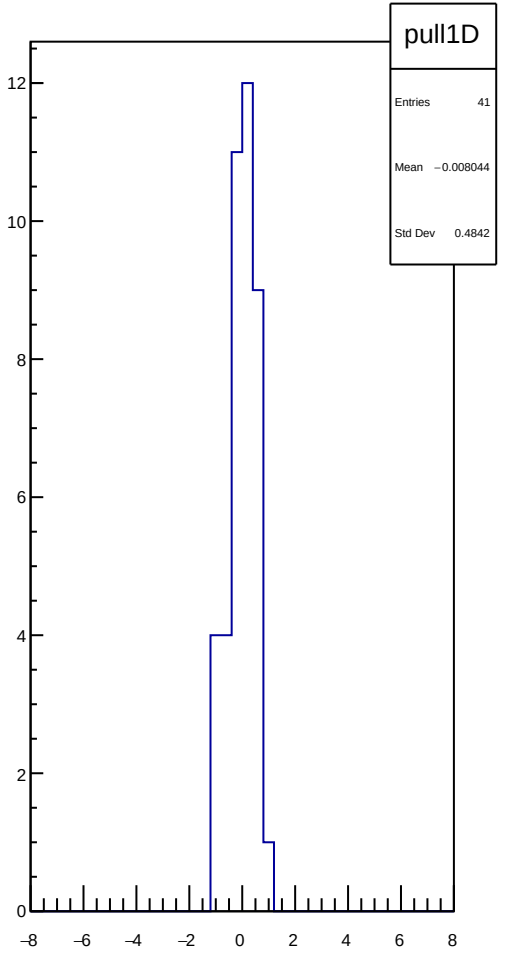

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.318 / 40
p0 −153.5 ± 7.842
−50
−100
−150
−200
−250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −18.36
Std Dev 0
1
0.5
0
−0.5
−1

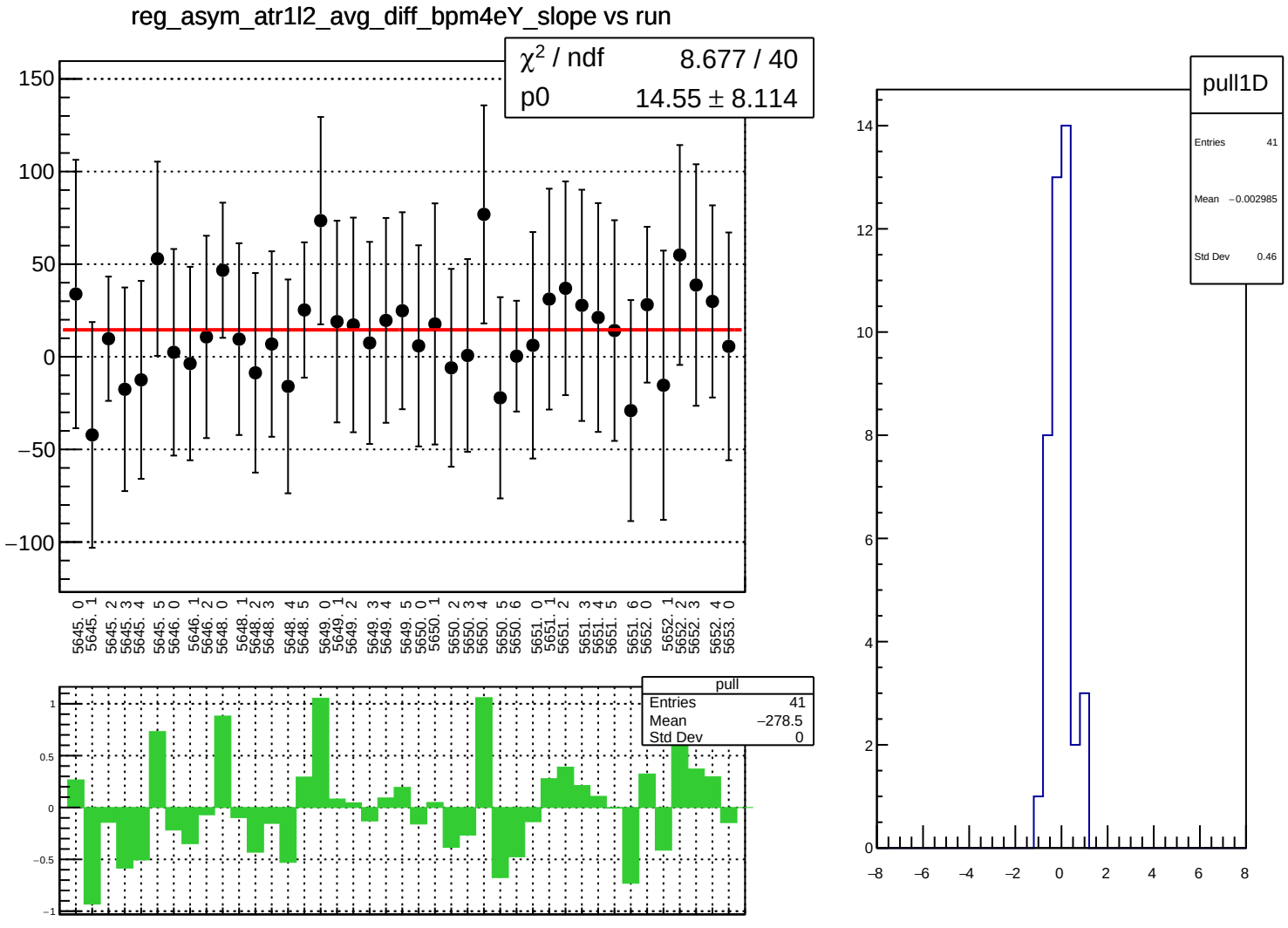

pull1D
Entries 41
Mean 0.007719
Std Dev 0.4767
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

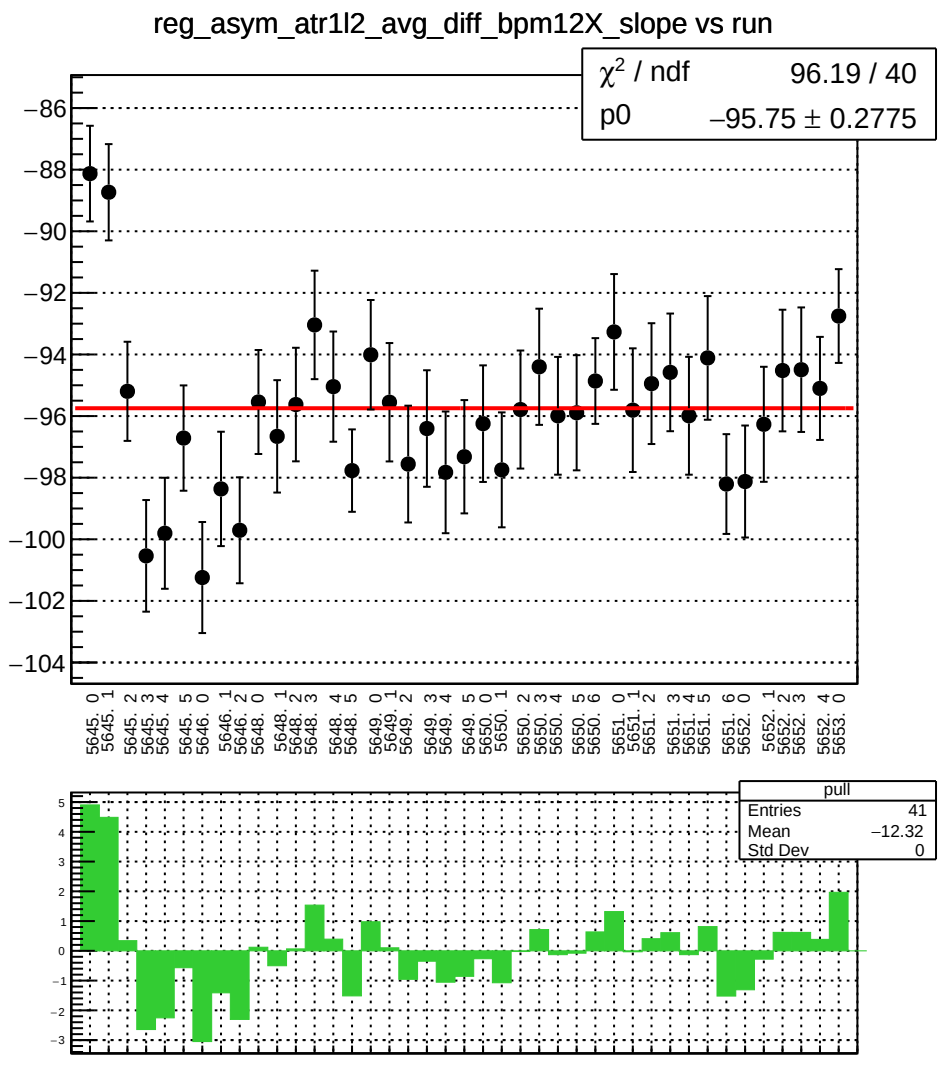

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.857 / 40
p0 20.91 ± 6.447
pull
Entries 41
Mean −1114
Std Dev 0

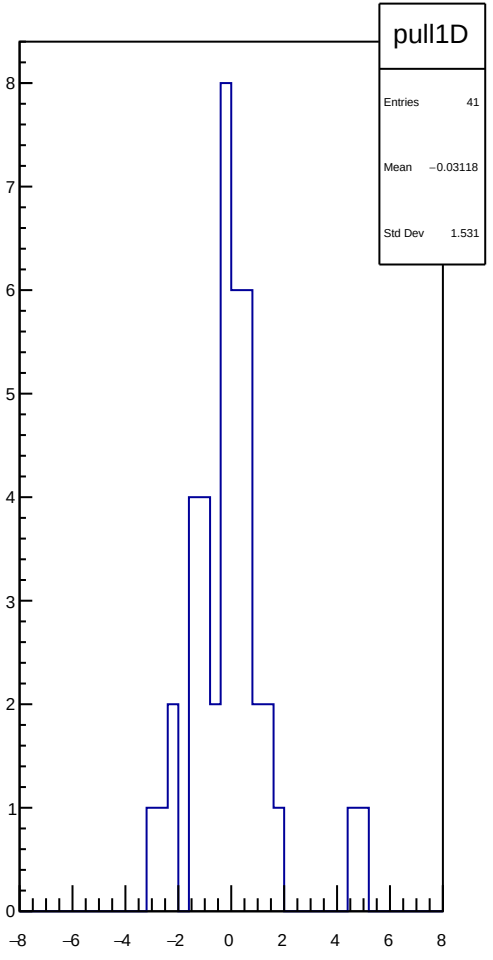

pull1D
Entries 41
Mean 0.0009245
Std Dev 0.4648

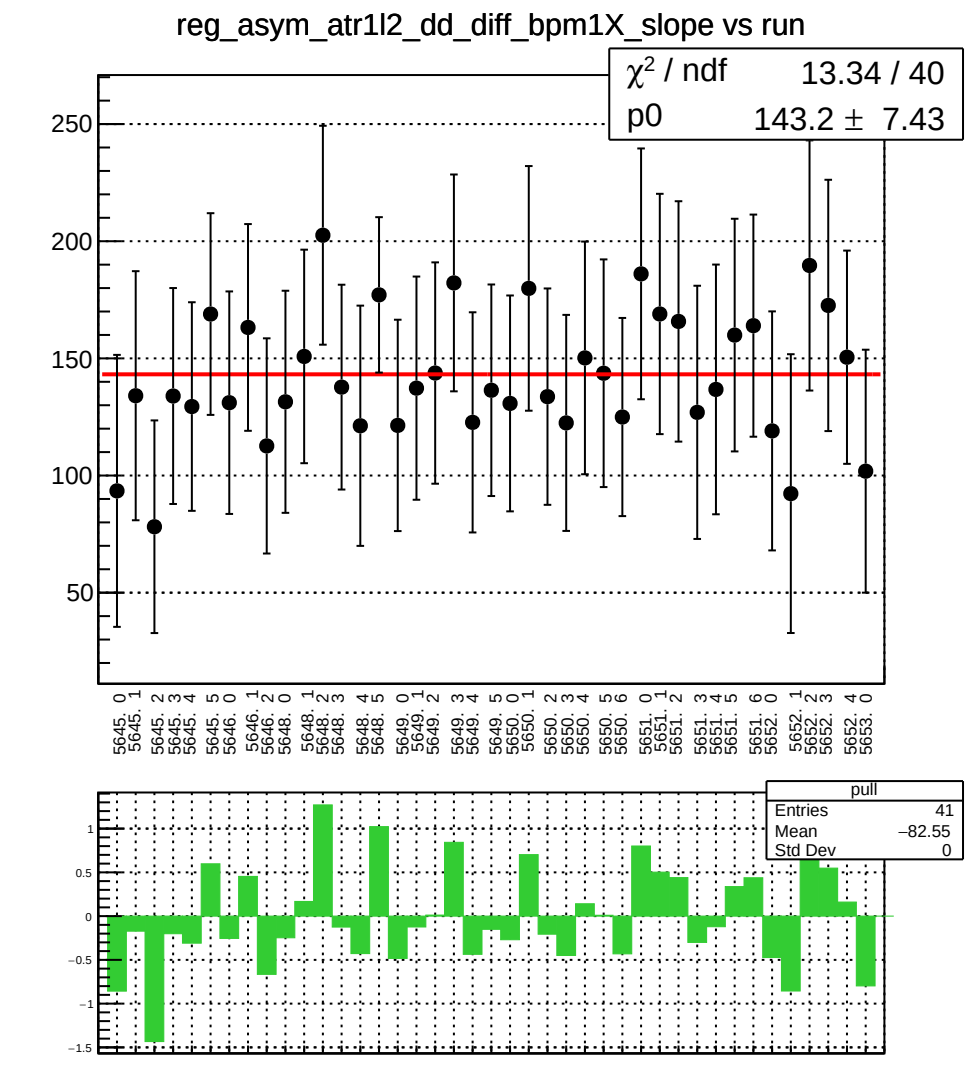

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.613 / 40
p0 93.21 ± 6.771
200
150
100
50
0
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −18.13
Std Dev 0
1
0.5
0
−0.5
−1

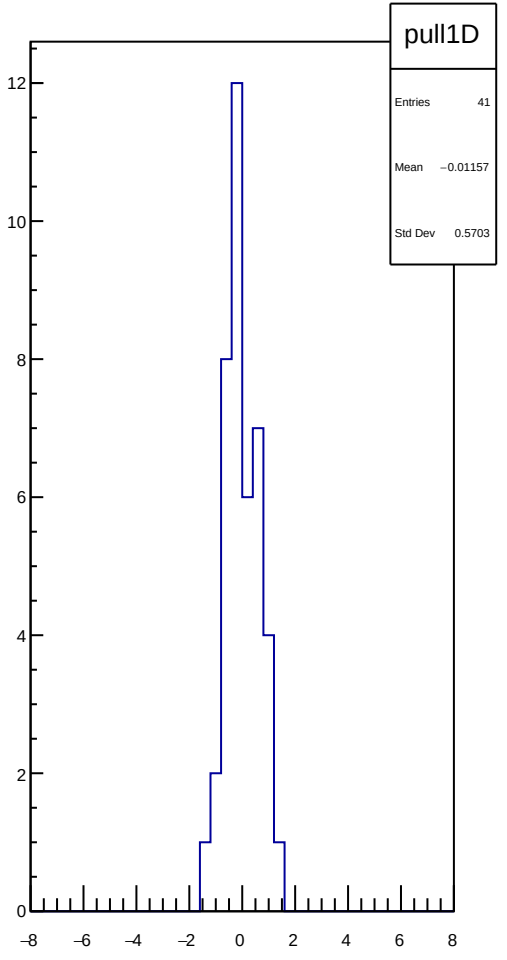

pull1D
Entries 41
Mean −0.008044
Std Dev 0.4842
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

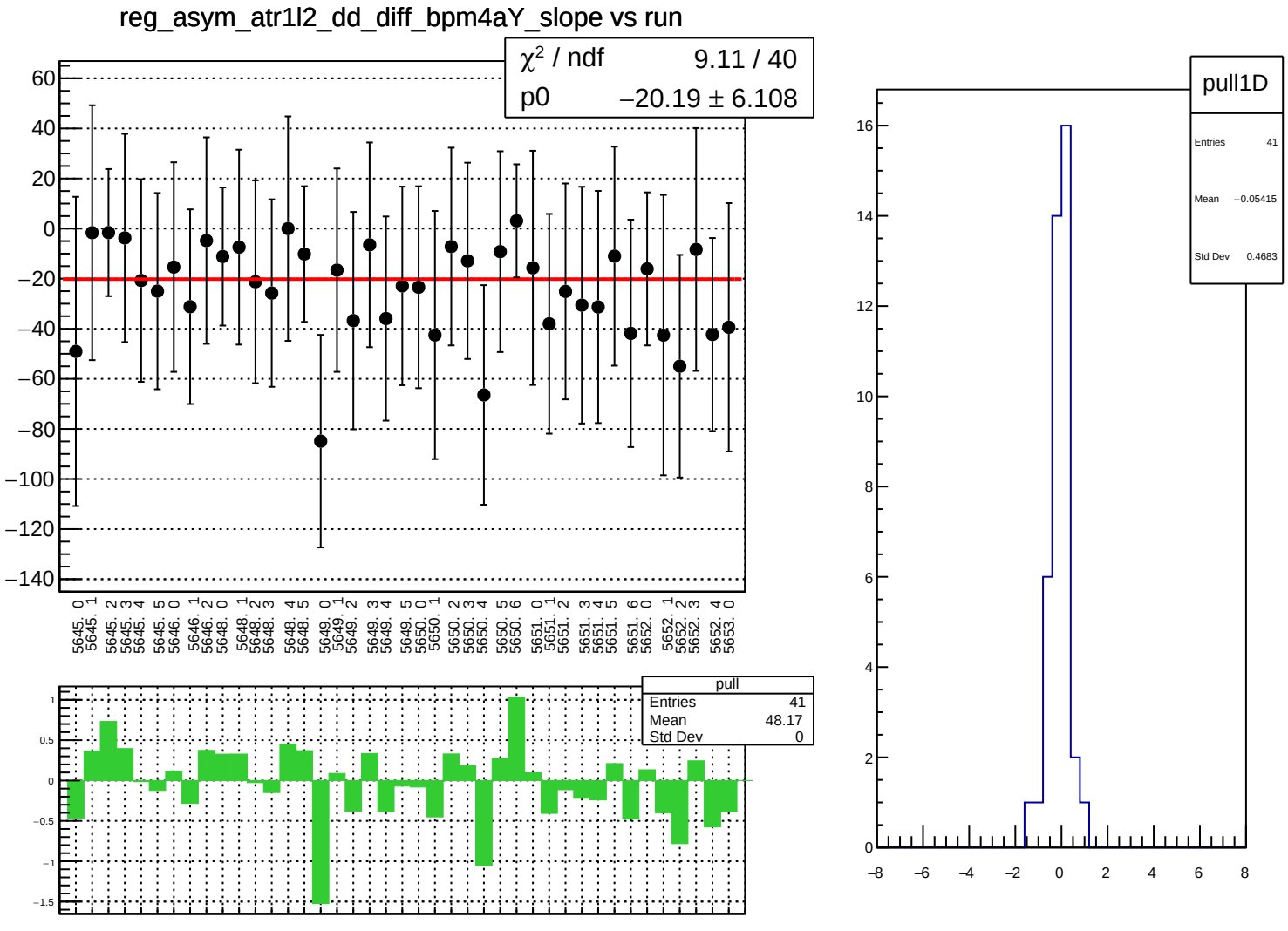

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.677 / 40
p0 14.55 ± 8.114
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −278.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean −0.002985
Std Dev 0.46
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

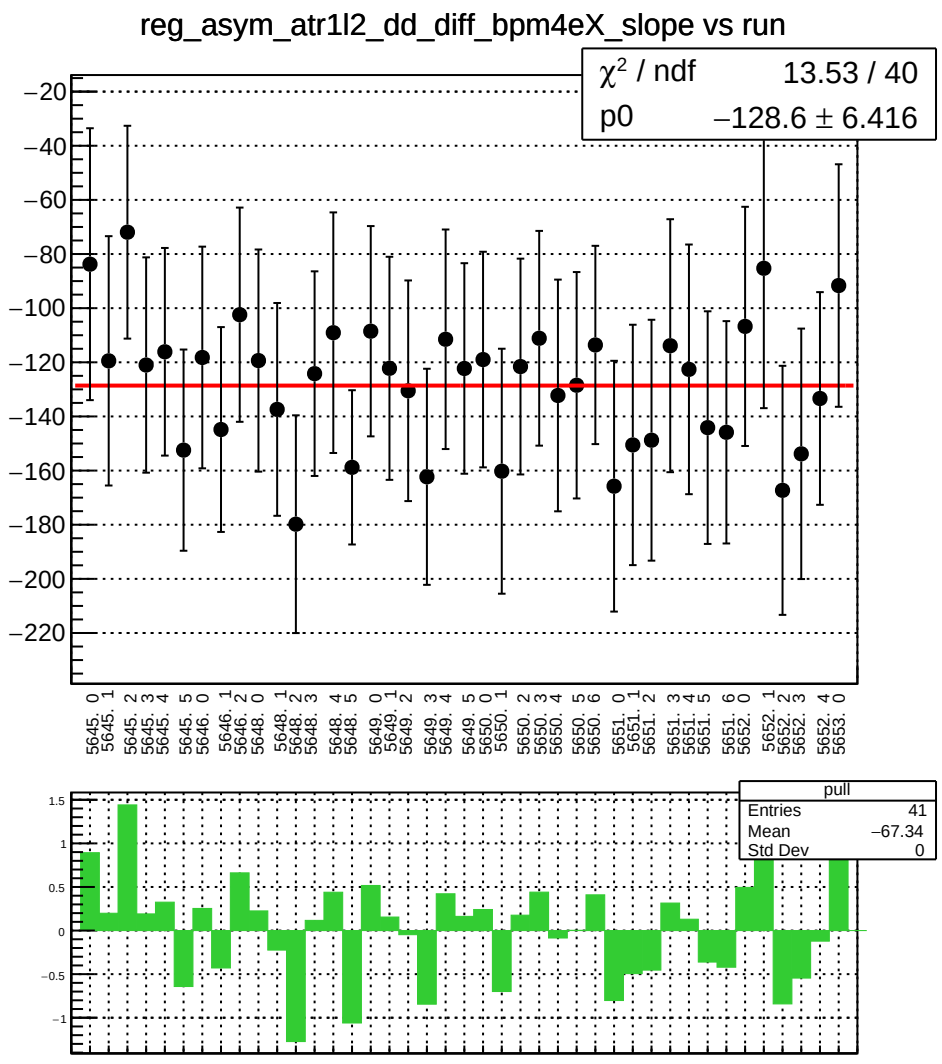

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 96.19 / 40
p0 −95.75 ± 0.2775
pull
Entries 41
Mean −12.32
Std Dev 0

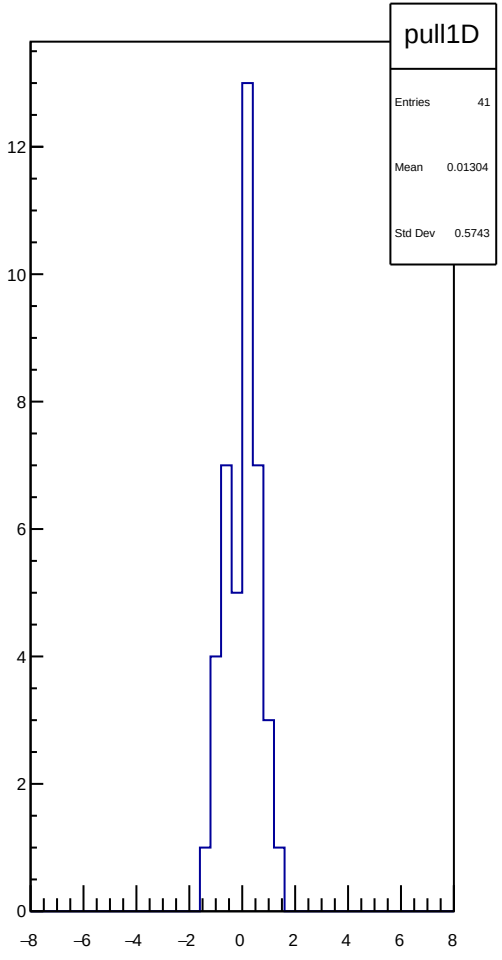

pull1D
Entries 41
Mean −0.03118
Std Dev 1.531

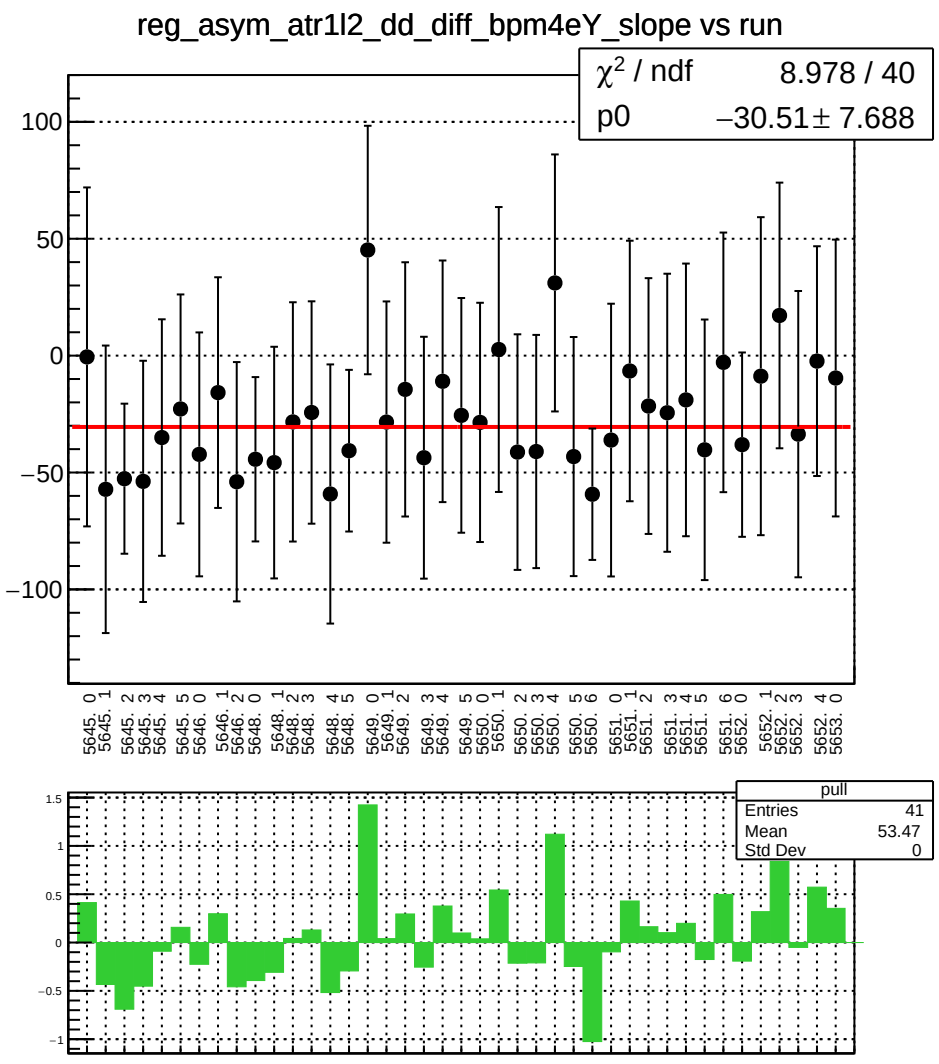

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 13.34 / 40
p0 143.2 ± 7.43
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −82.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

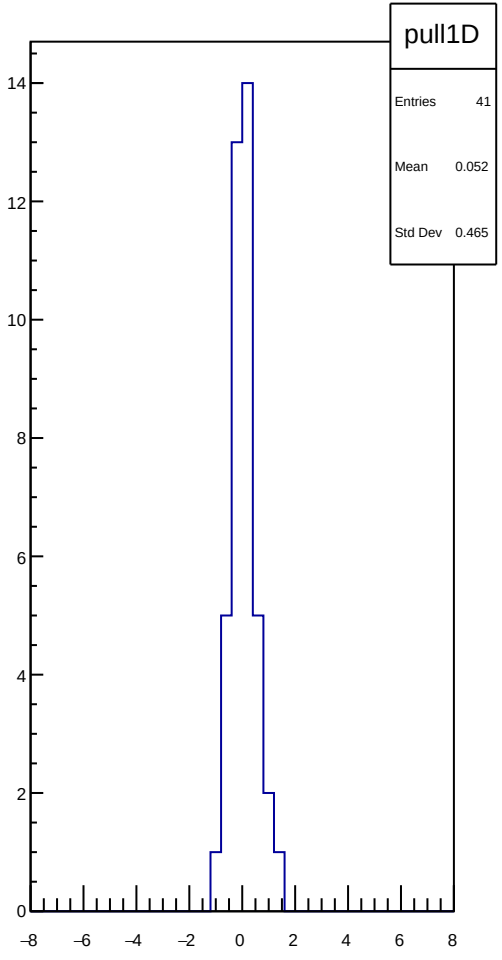

pull1D
Entries 41
Mean −0.01157
Std Dev 0.5703
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

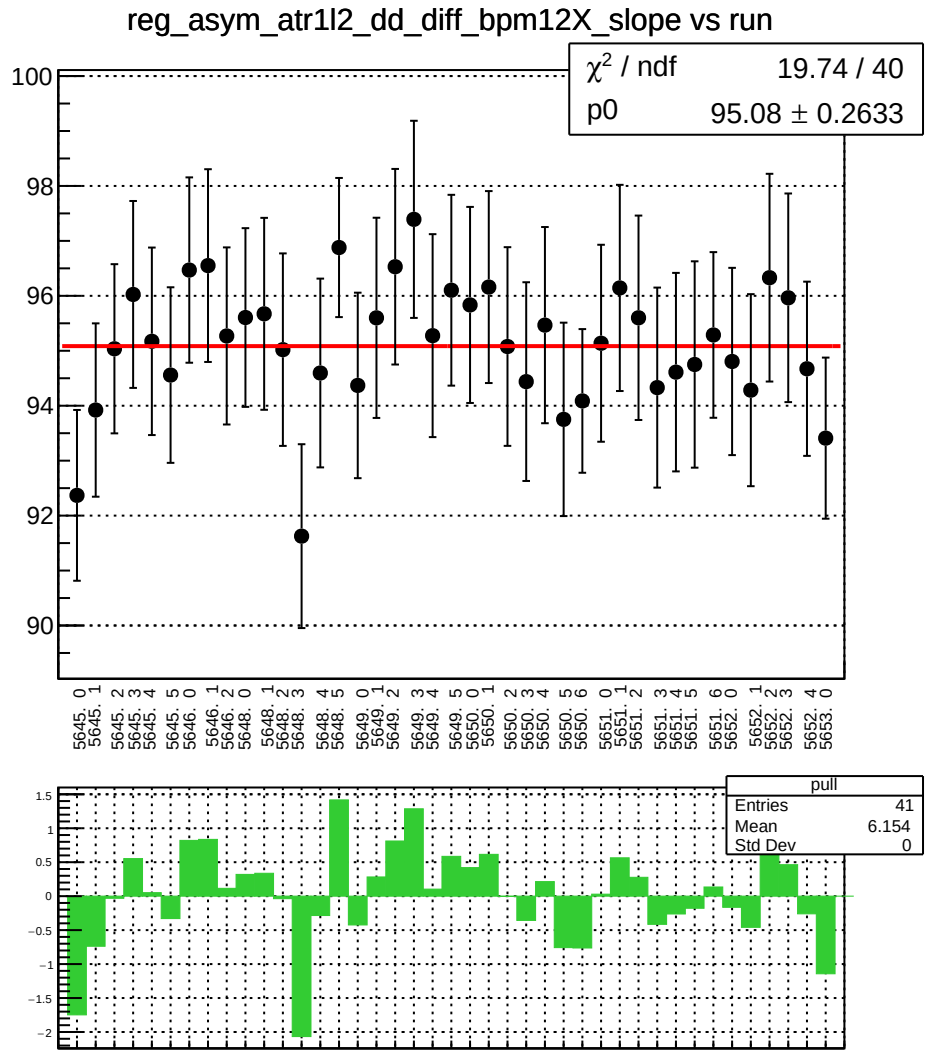

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.11 / 40
p0 −20.19 ± 6.108
pull
Entries 41
Mean 48.17
Std Dev 0
pull1D
Entries 41
Mean −0.05415
Std Dev 0.4683

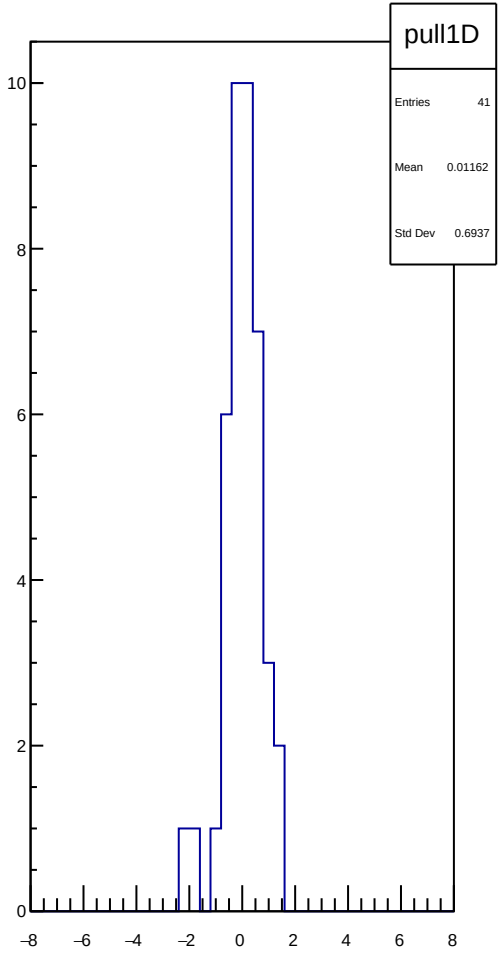

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.53 / 40
p0 −128.6 ± 6.416
pull
Entries 41
Mean −67.34
Std Dev 0

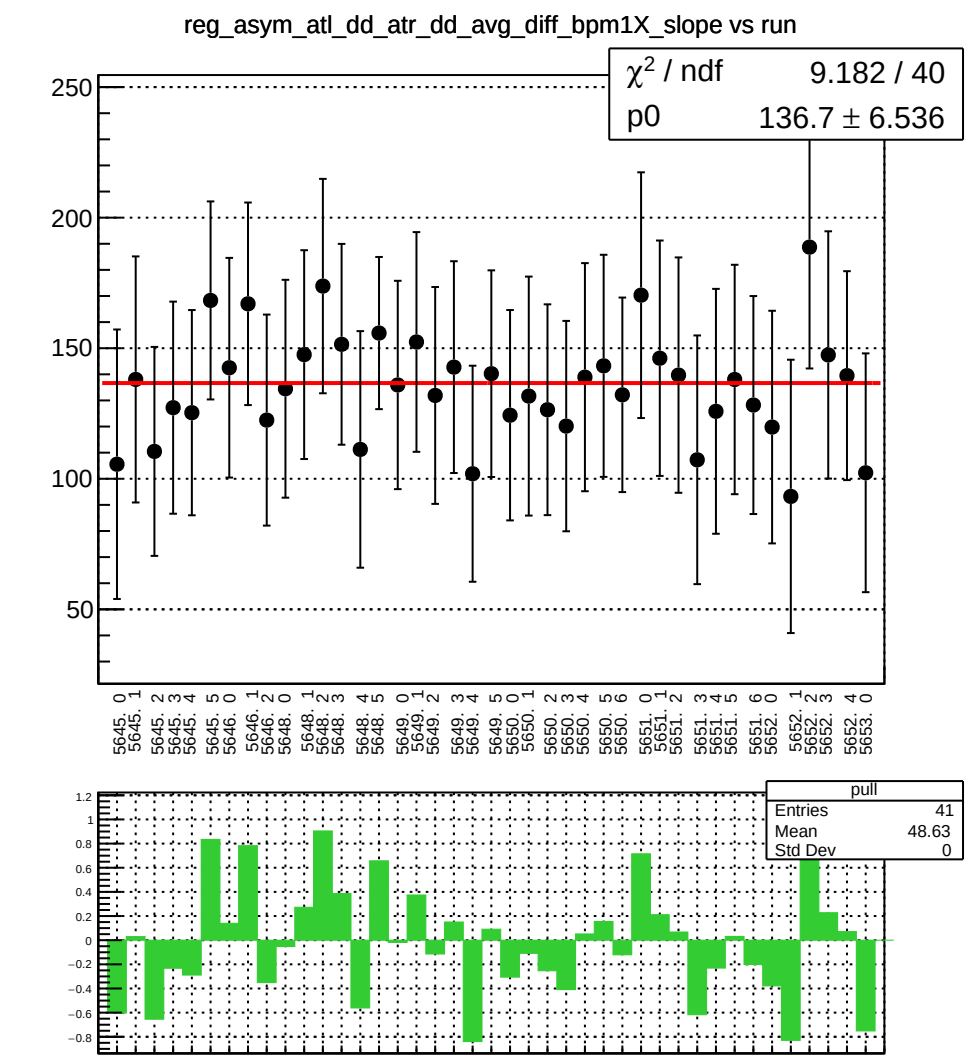

pull1D
Entries 41
Mean 0.01304
Std Dev 0.5743

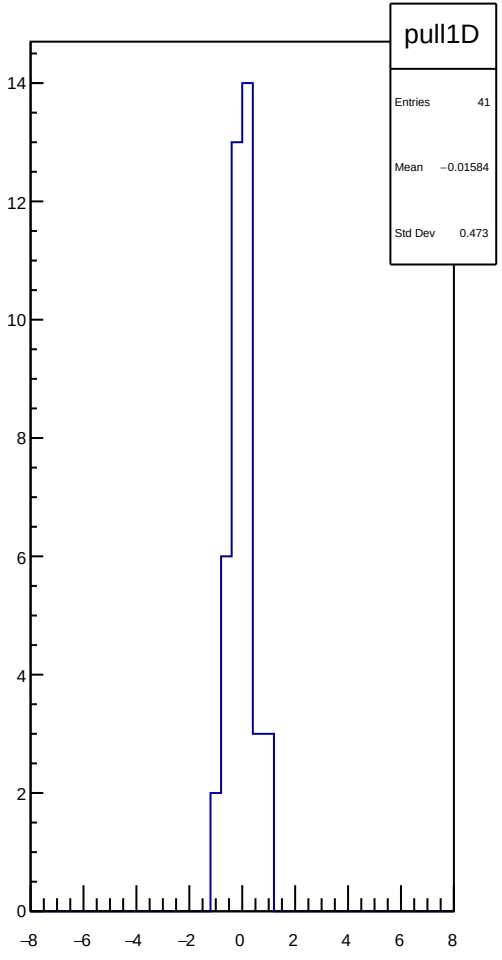

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.978 / 40
p0 −30.51± 7.688
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 53.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1

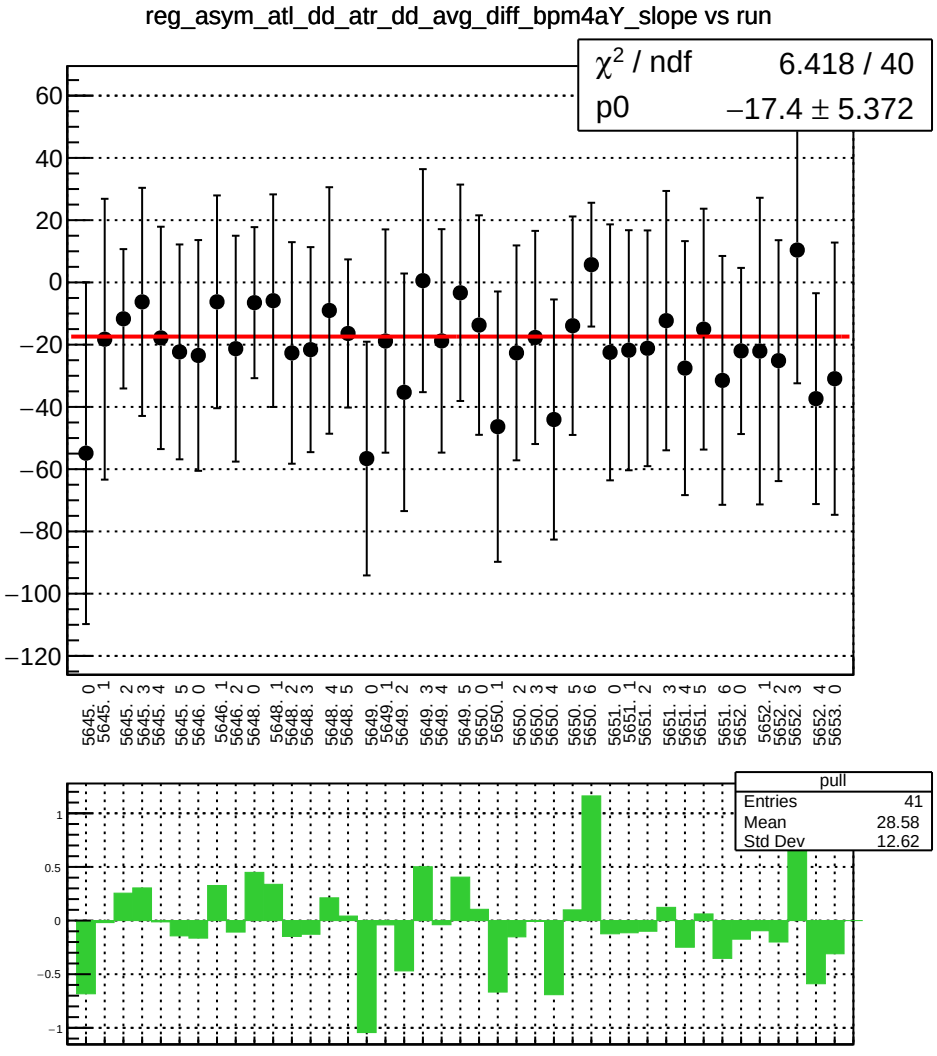

pull1D
Entries 41
Mean 0.052
Std Dev 0.465
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

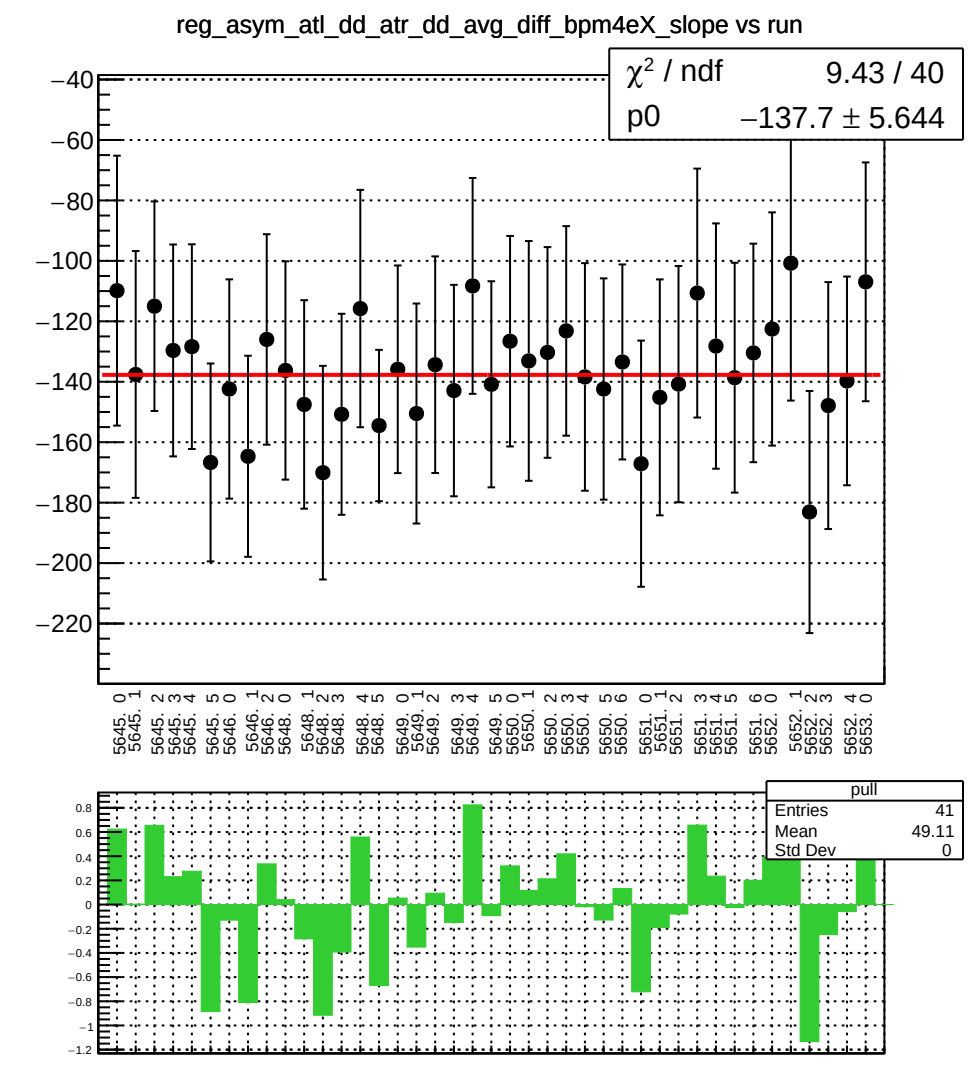

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.74 / 40
p0 95.08 ± 0.2633
pull
Entries 41
Mean 6.154
Std Dev 0

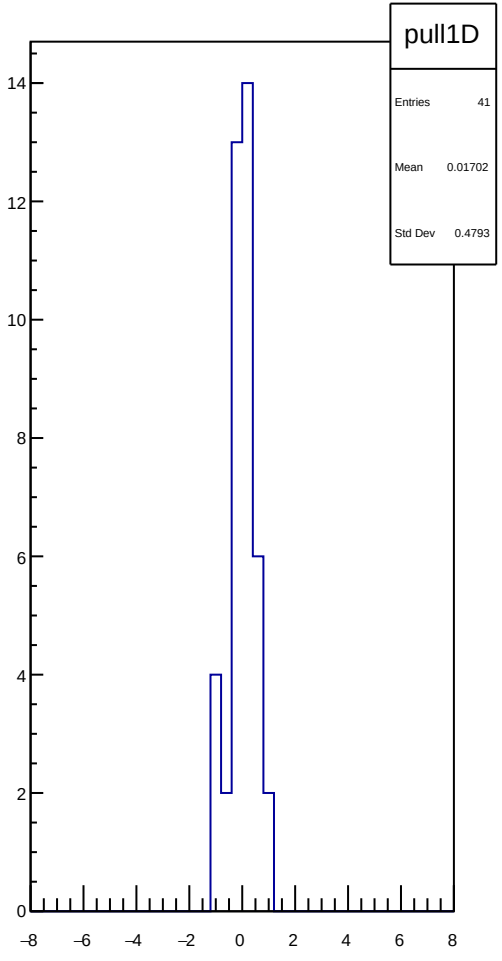

pull1D
Entries 41
Mean 0.01162
Std Dev 0.6937

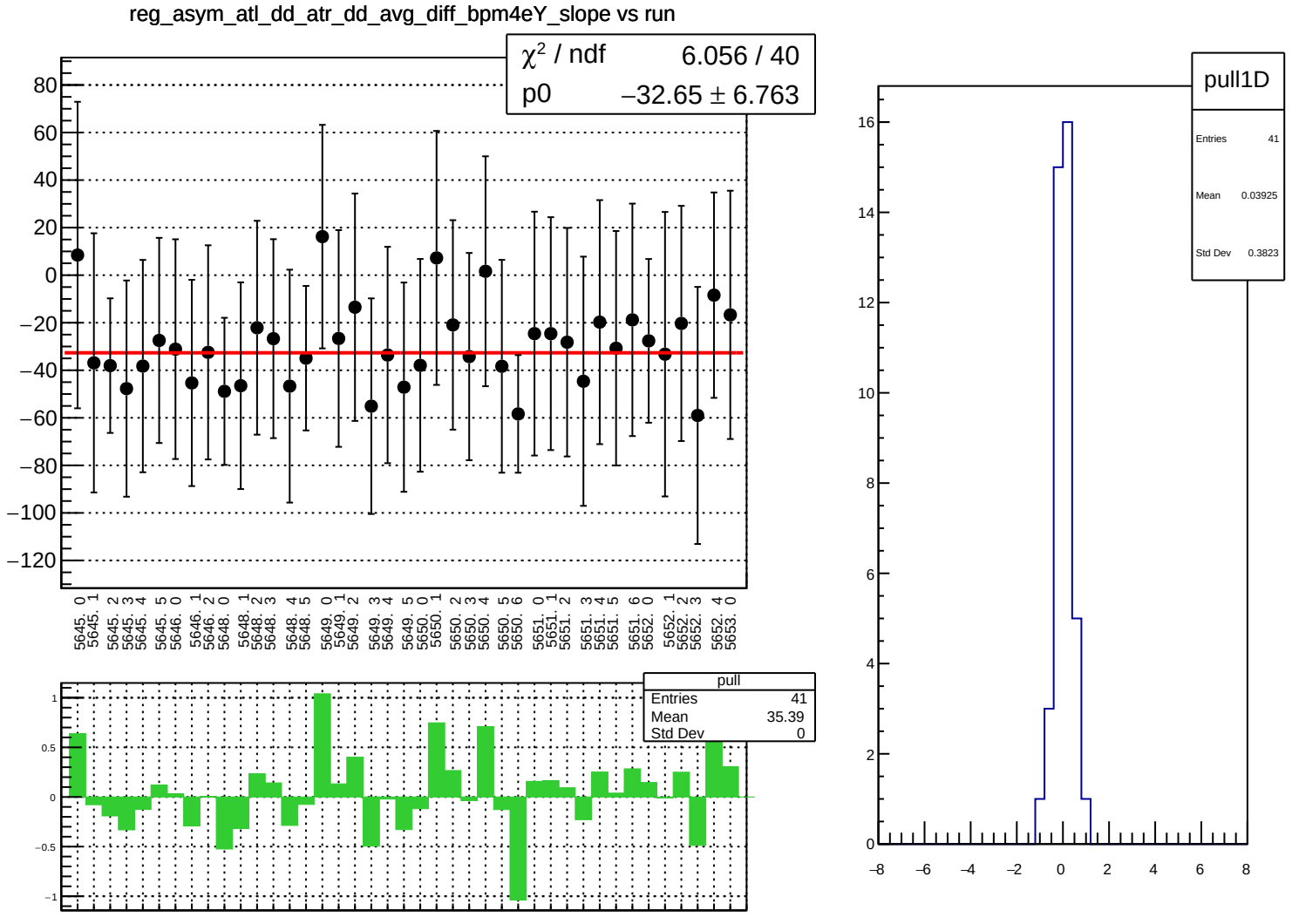

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 9.182 / 40
p0 136.7 ± 6.536
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 48.63
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

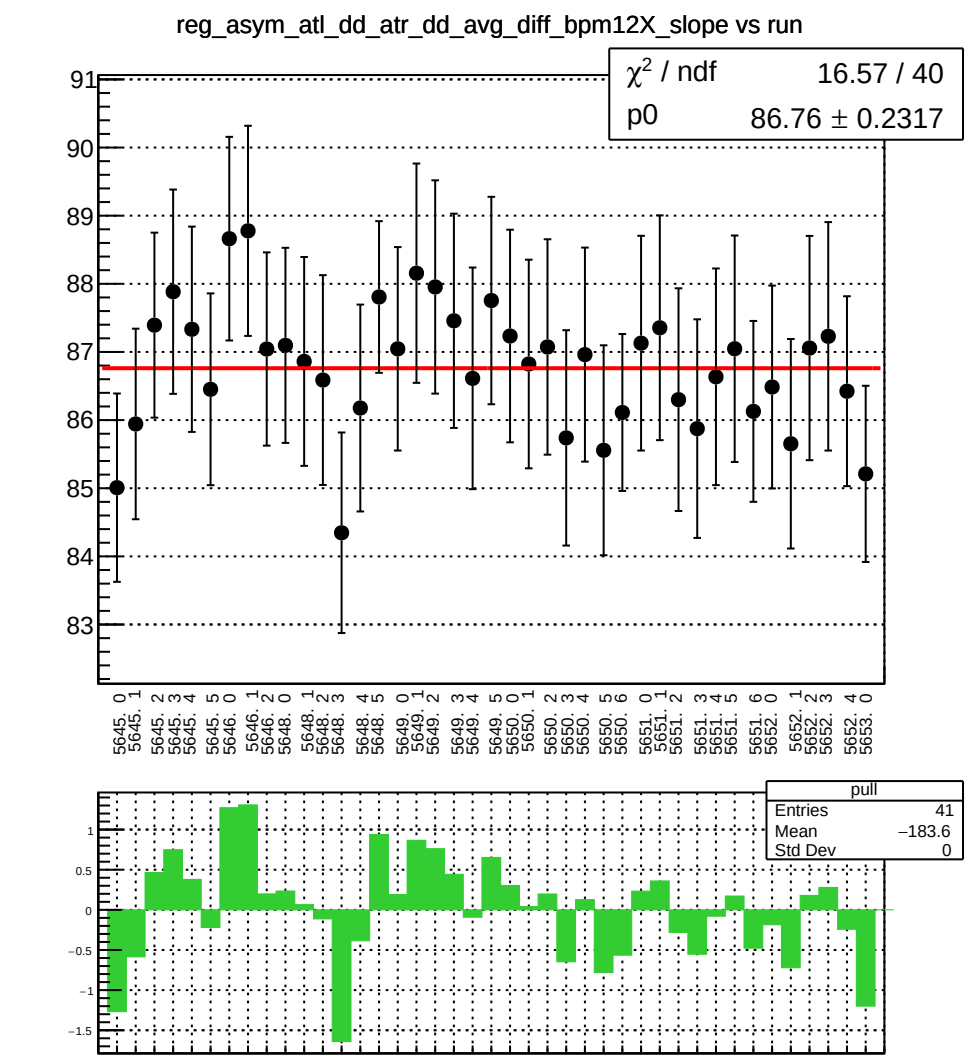

pull1D
Entries 41
Mean −0.01584
Std Dev 0.473
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

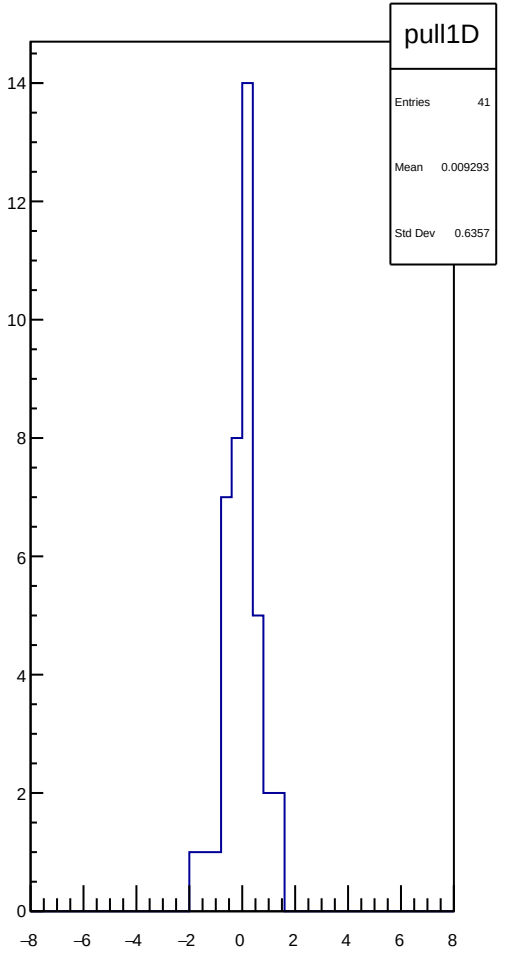

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.418 / 40
p0 −17.4 ± 5.372
pull
Entries 41
Mean 28.58
Std Dev 12.62
pull1D
Entries 41
Mean −0.04339
Std Dev 0.3933

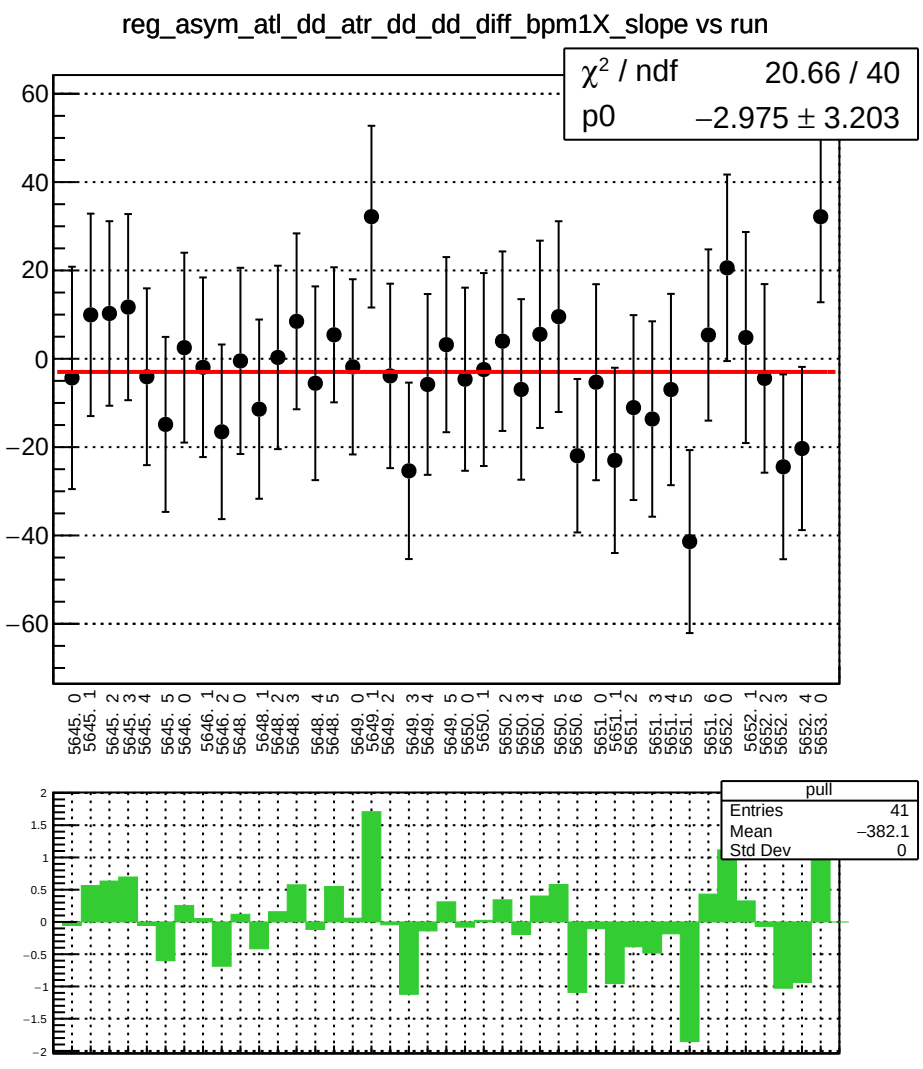

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.43 / 40
p0 −137.7 ± 5.644
pull
Entries 41
Mean 49.11
Std Dev 0

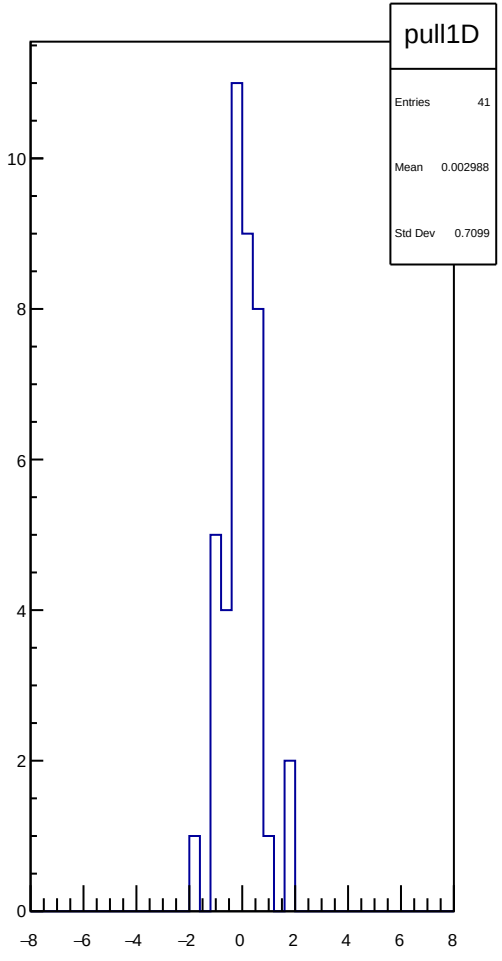

pull1D
Entries 41
Mean 0.01702
Std Dev 0.4793

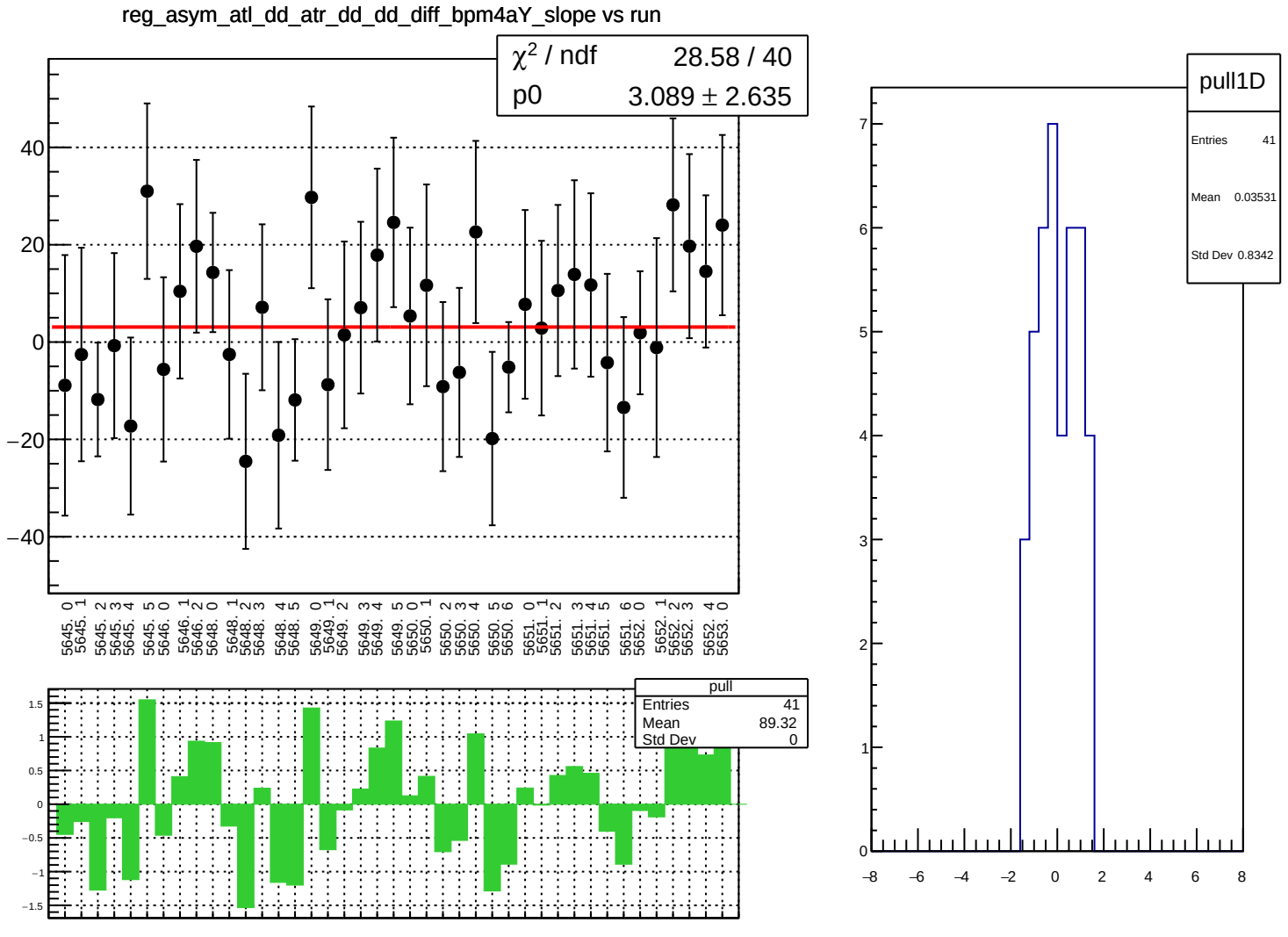

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.056 / 40
p0 −32.65 ± 6.763
pull
Entries 41
Mean 35.39
Std Dev 0
pull1D
Entries 41
Mean 0.03925
Std Dev 0.3823

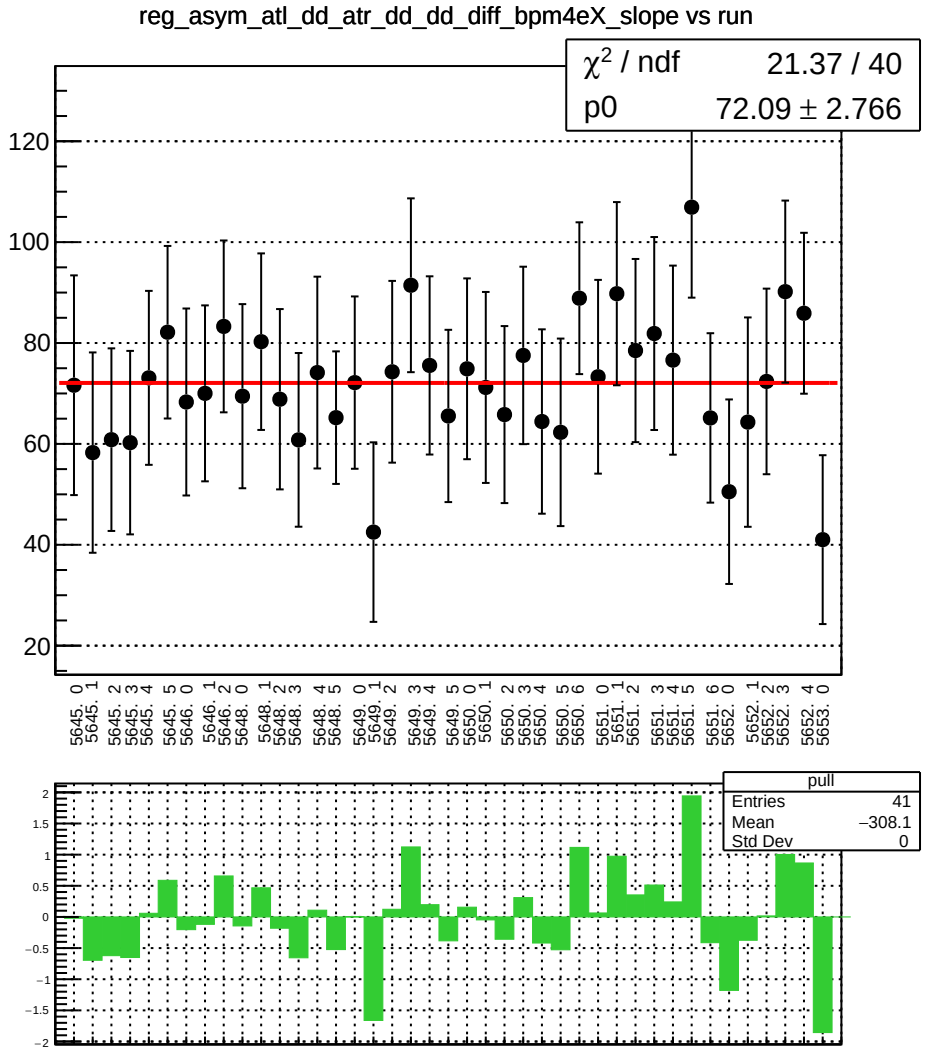

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 16.57 / 40
p0 86.76 ± 0.2317
pull
Entries 41
Mean −183.6
Std Dev 0

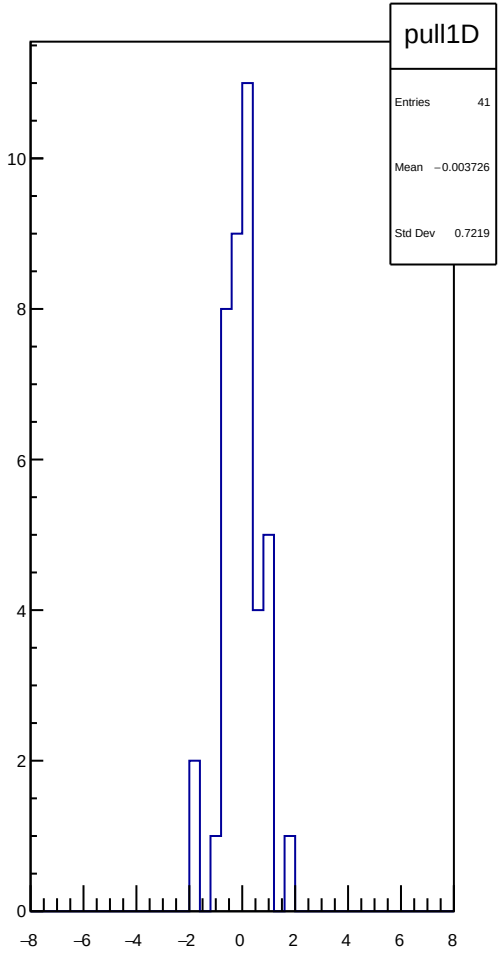

pull1D
Entries 41
Mean 0.009293
Std Dev 0.6357

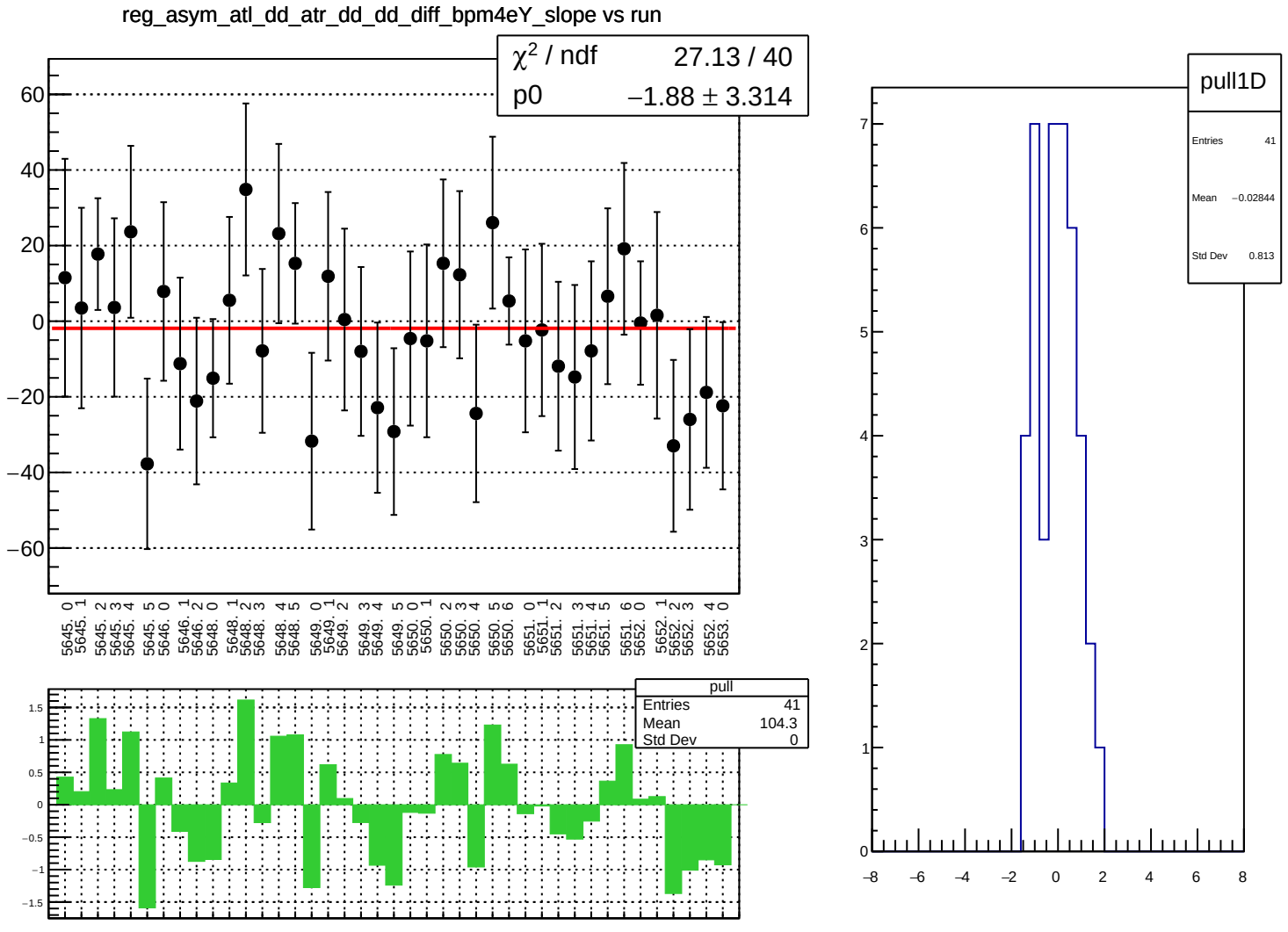

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 20.66 / 40
p0 −2.975 ± 3.203
pull
Entries 41
Mean −382.1
Std Dev 0

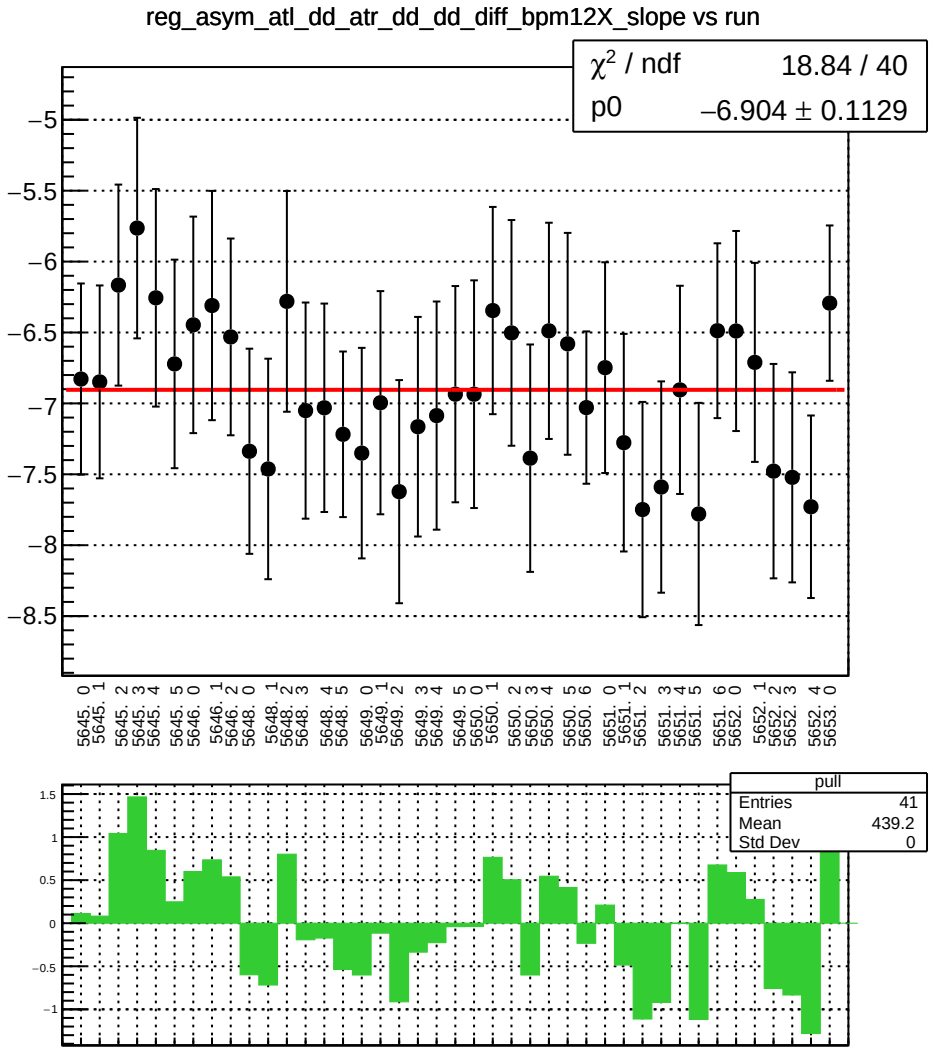

pull1D
Entries 41
Mean 0.002988
Std Dev 0.7099

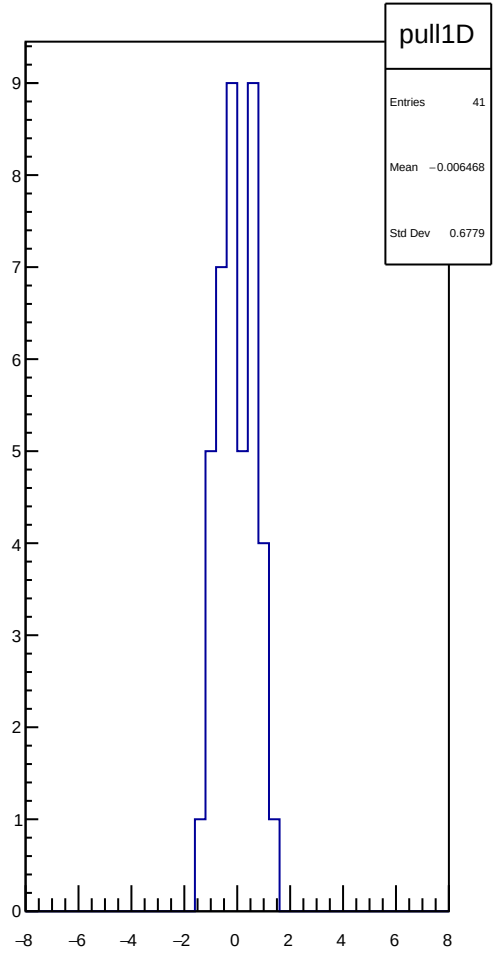

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.58 / 40
p0 3.089 ± 2.635
pull
Entries 41
Mean 89.32
Std Dev 0
pull1D
Entries 41
Mean 0.03531
Std Dev 0.8342

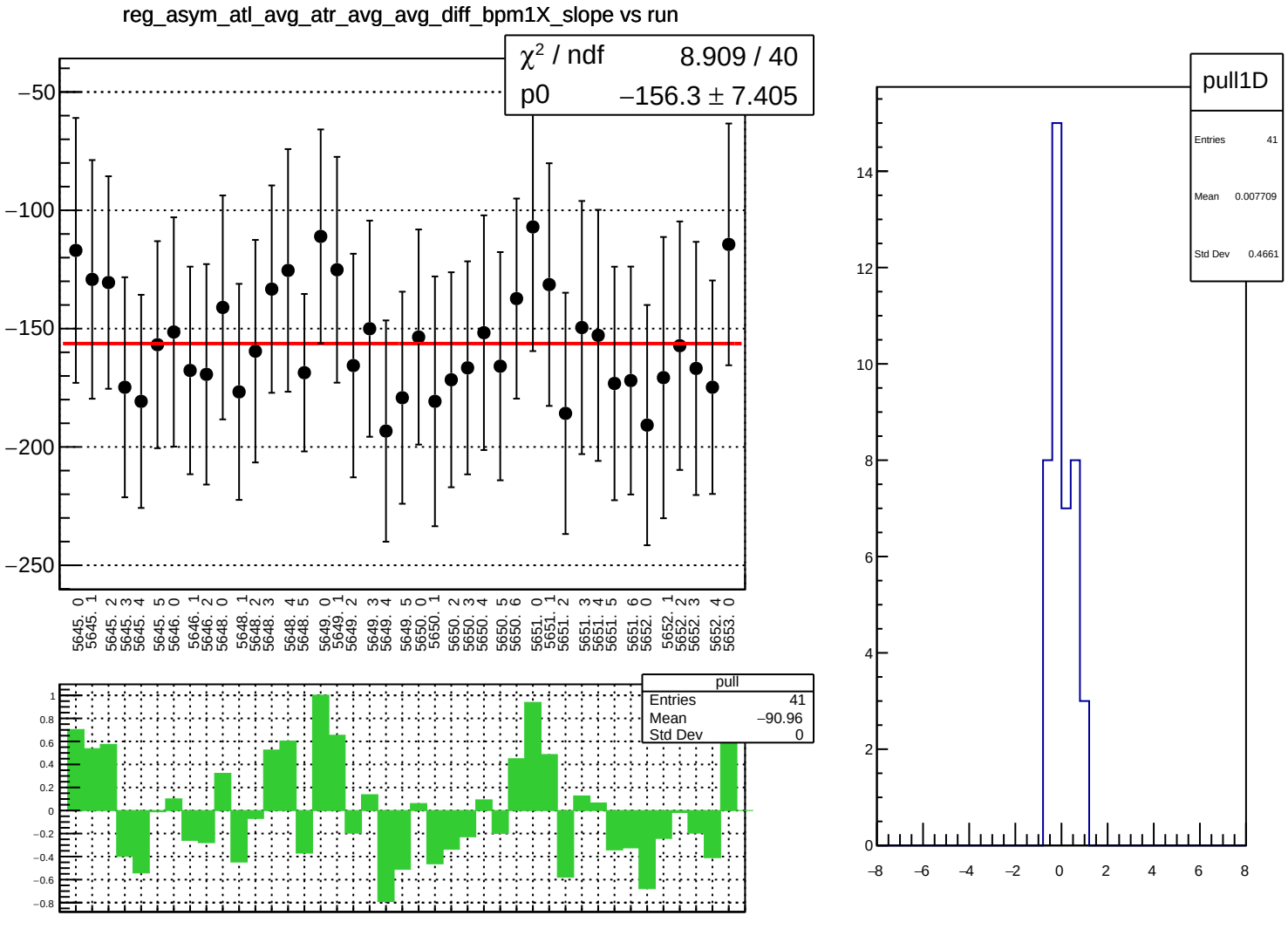

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.37 / 40
p0 72.09 ± 2.766
pull
Entries 41
Mean −308.1
Std Dev 0

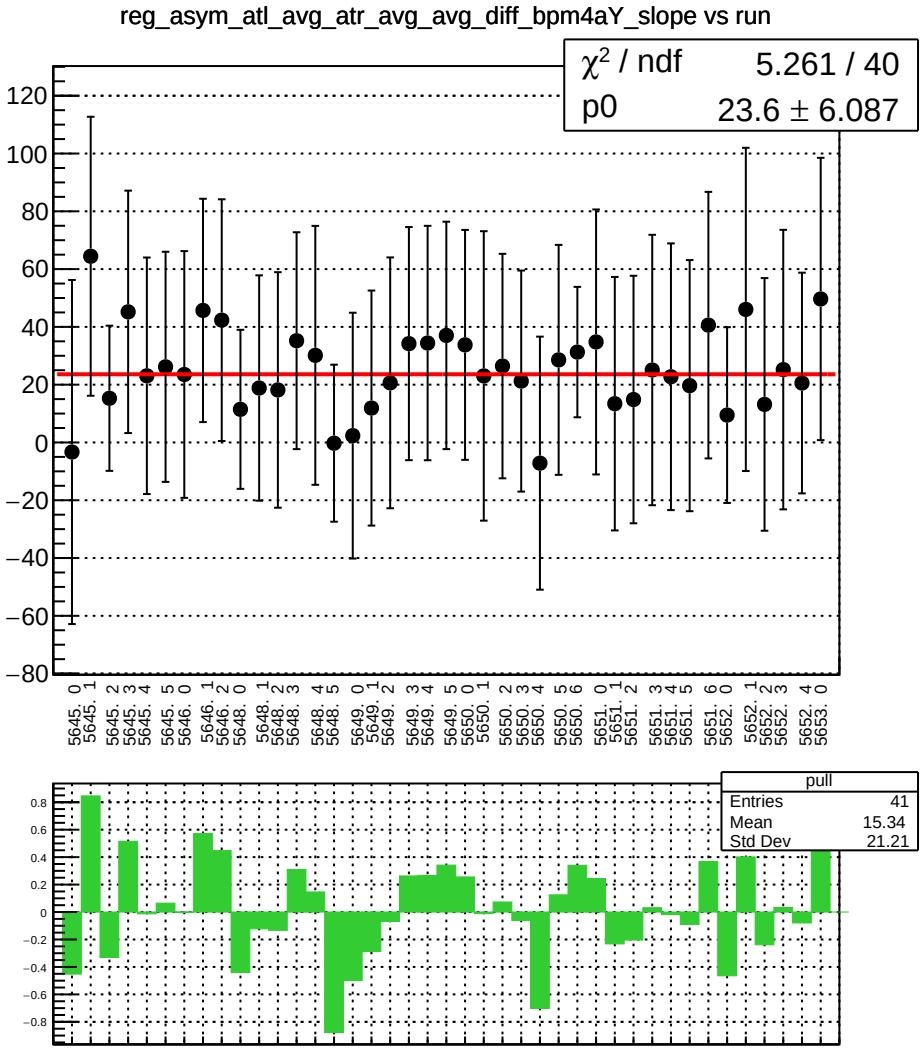

pull1D
Entries 41
Mean −0.003726
Std Dev 0.7219

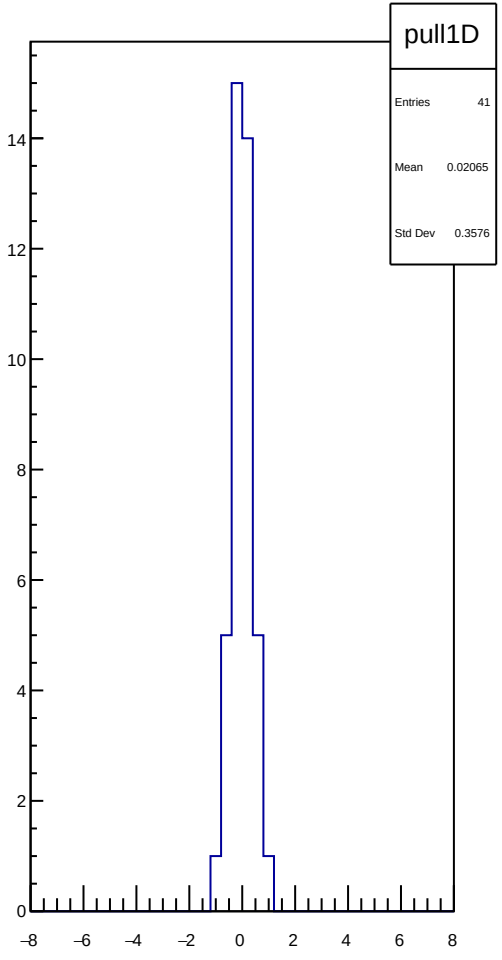

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.13 / 40
p0 −1.88 ± 3.314
pull
Entries 41
Mean 104.3
Std Dev 0
pull1D
Entries 41
Mean −0.02844
Std Dev 0.813

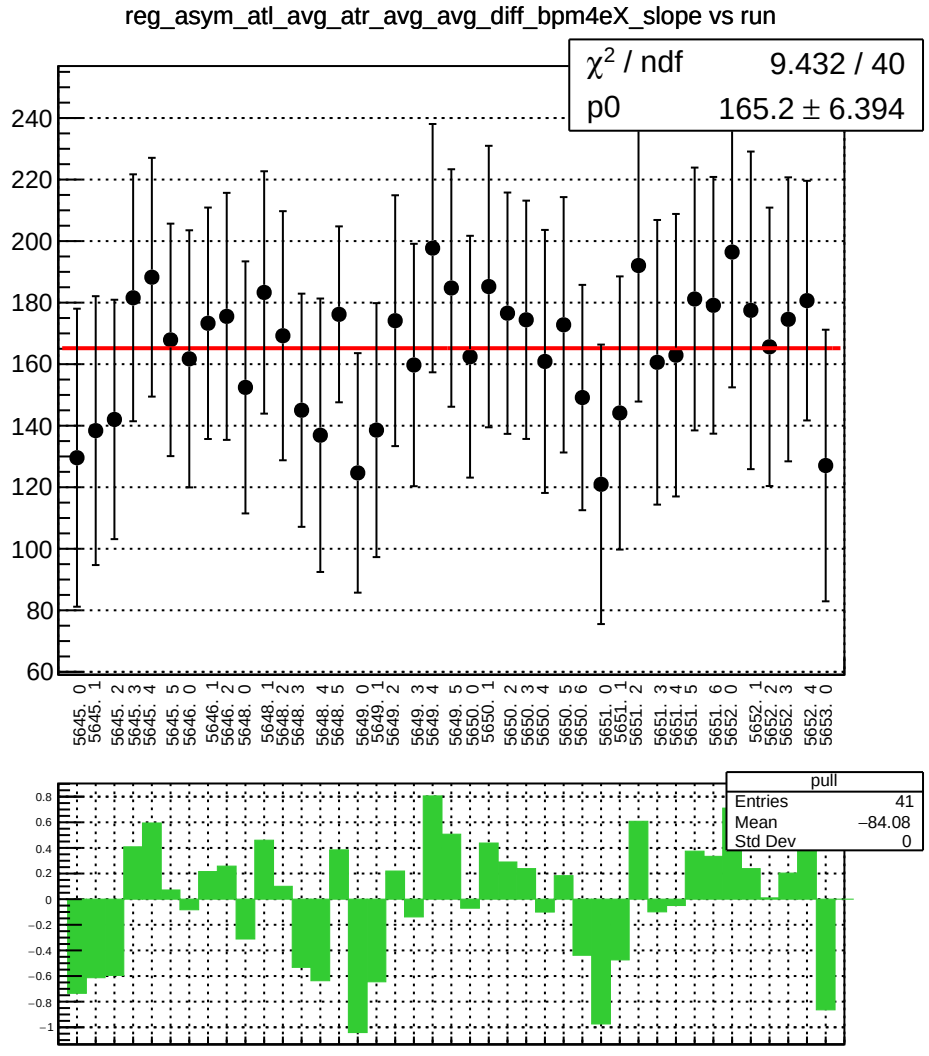

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 18.84 / 40
p0 −6.904 ± 0.1129
pull
Entries 41
Mean 439.2
Std Dev 0

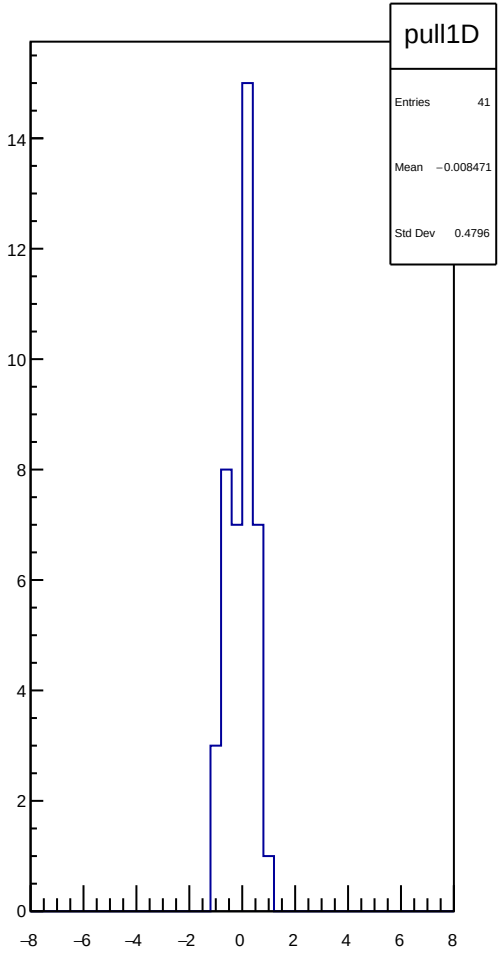

pull1D
Entries 41
Mean −0.006468
Std Dev 0.6779

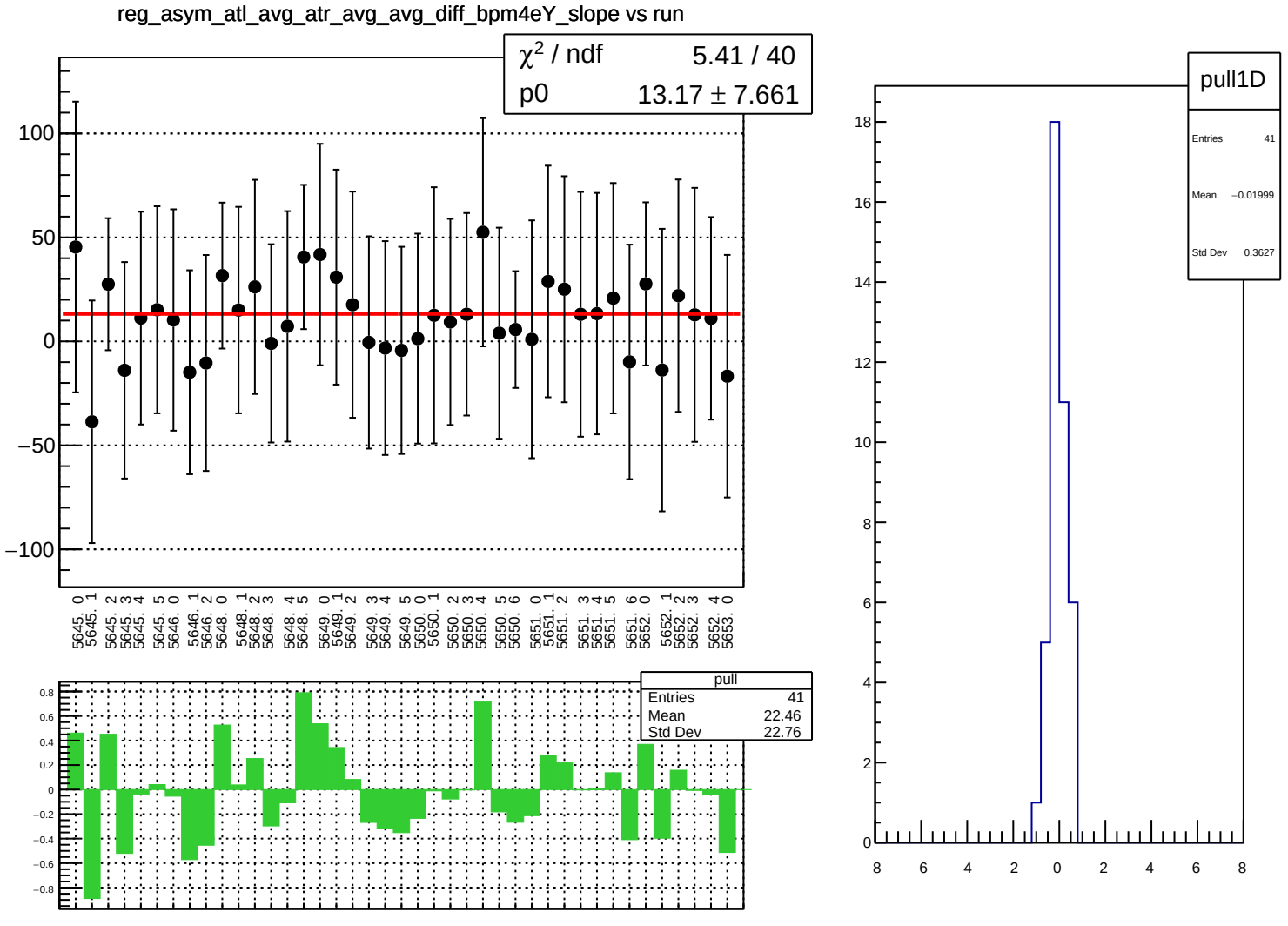

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.909 / 40
p0 −156.3 ± 7.405
−50
−100
−150
−200
−250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −90.96
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.007709
Std Dev 0.4661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

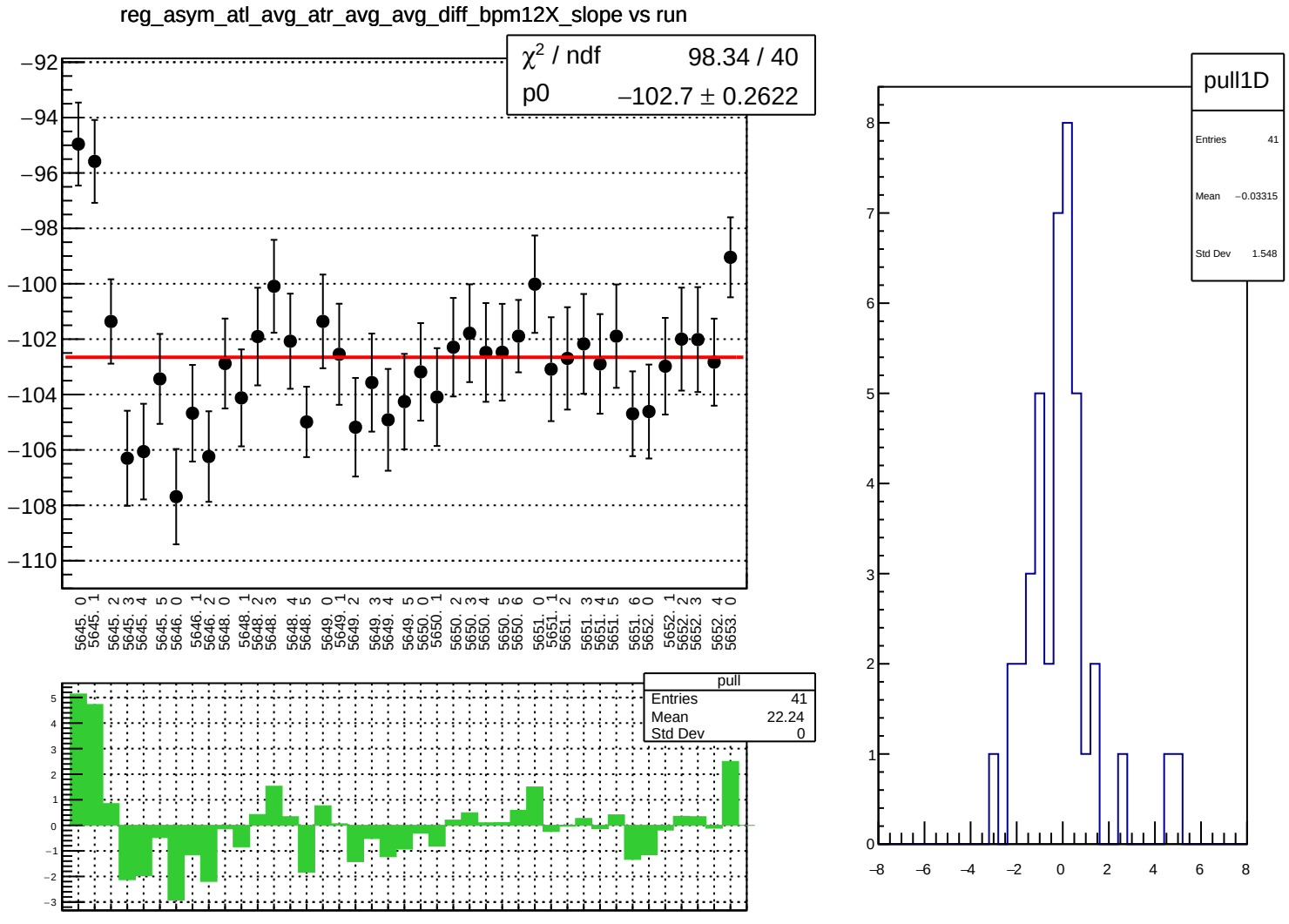

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.261 / 40
p0 23.6 ± 6.087
pull
Entries 41
Mean 15.34
Std Dev 21.21

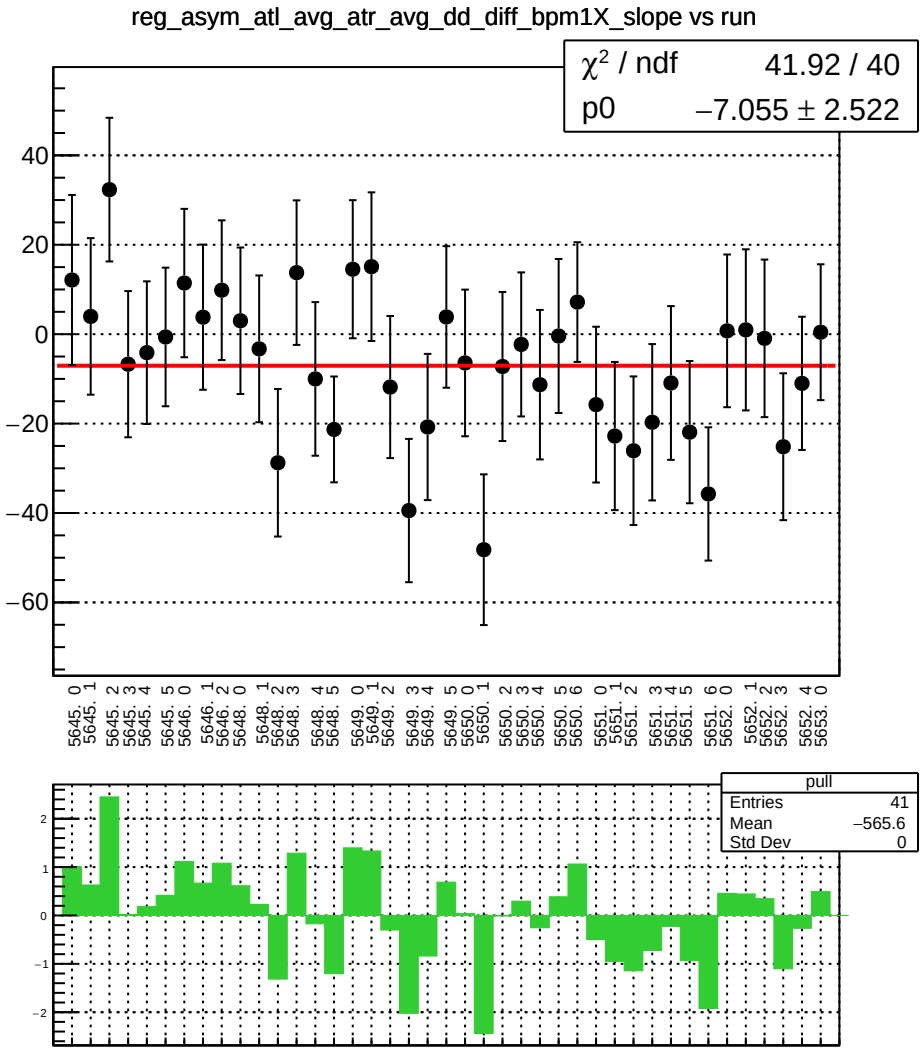

pull1D
Entries 41
Mean 0.02065
Std Dev 0.3576

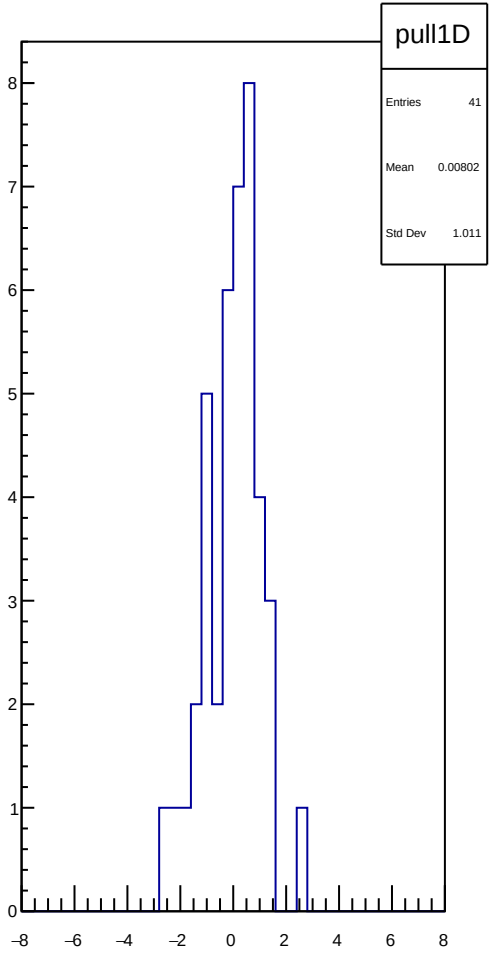

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.432 / 40
p0 165.2 ± 6.394
pull
Entries 41
Mean −84.08
Std Dev 0

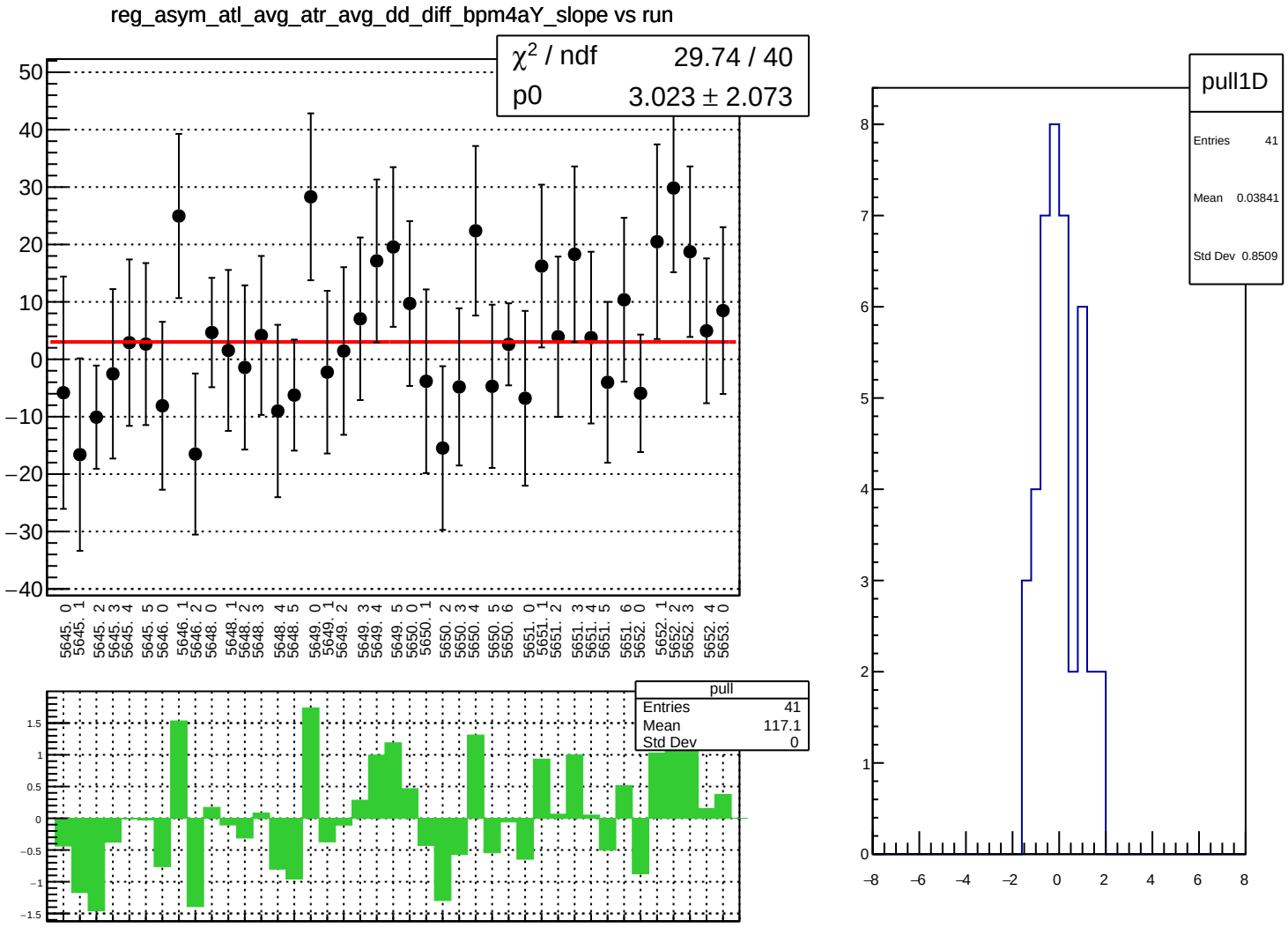

pull1D
Entries 41
Mean −0.008471
Std Dev 0.4796

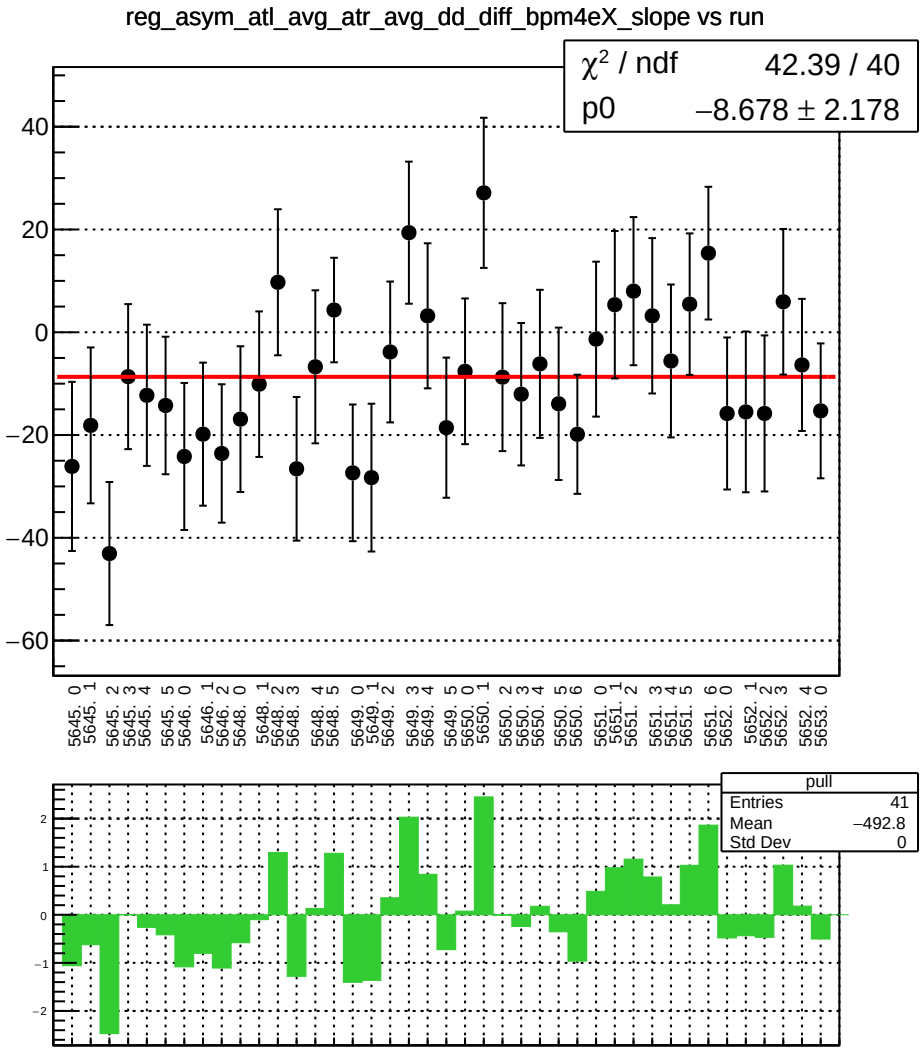

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.41 / 40
p0 13.17 ± 7.661
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.46
Std Dev 22.76
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.01999
Std Dev 0.3627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

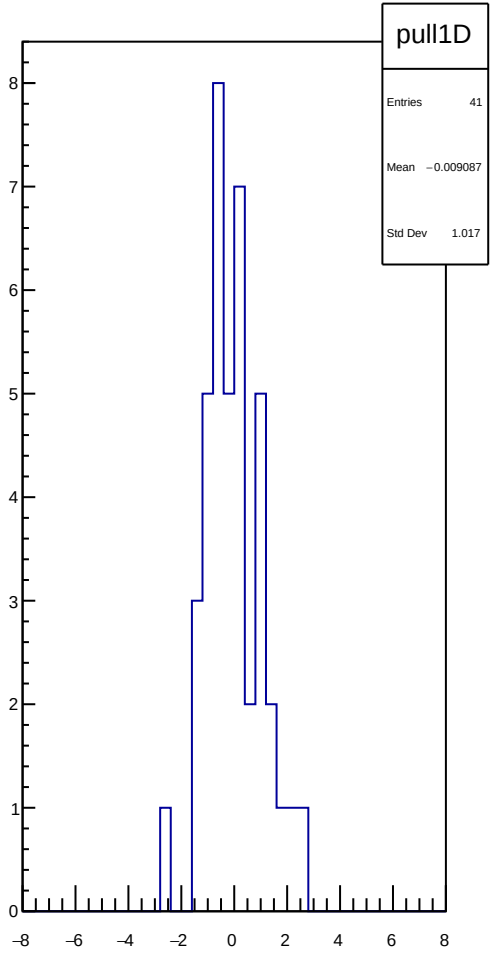

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 98.34 / 40
p0 −102.7 ± 0.2622
−92
−94
−96
−98
−100
−102
−104
−106
−108
−110
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 22.24
Std Dev 0
pull1D
Entries 41
Mean −0.03315
Std Dev 1.548

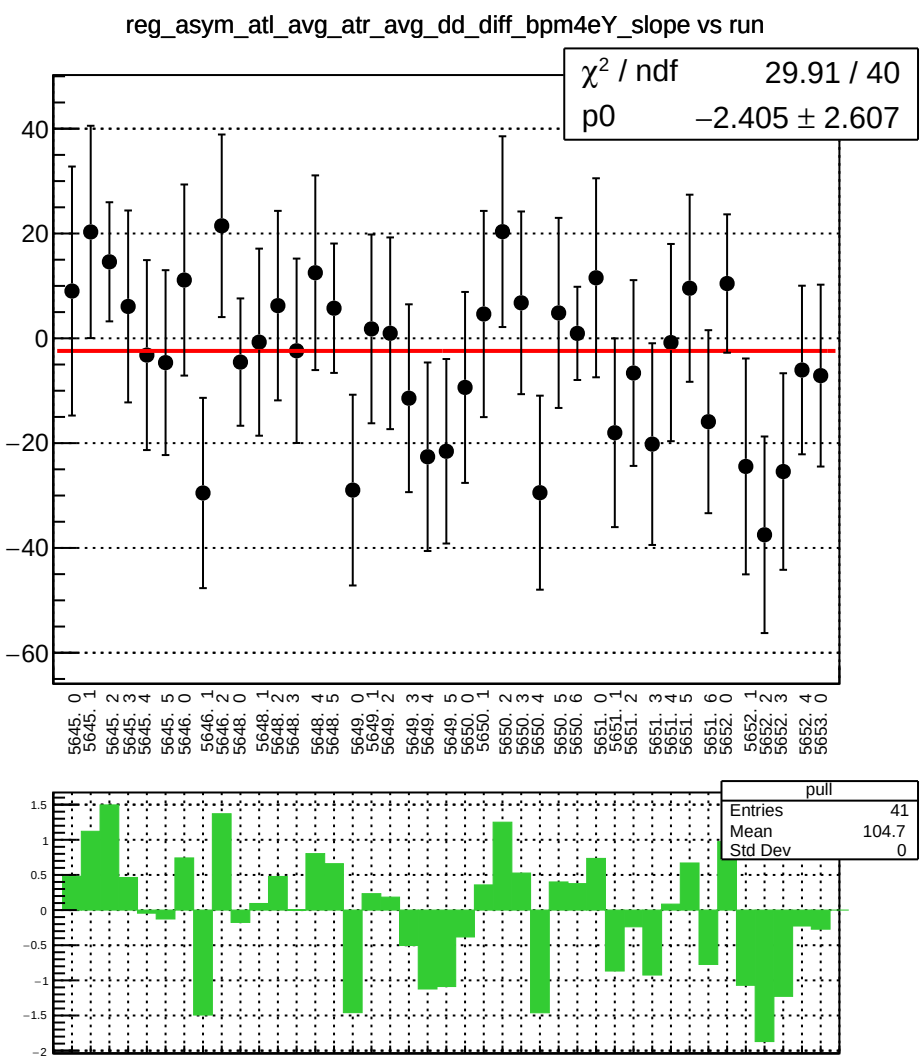

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 41.92 / 40
p0 −7.055 ± 2.522
40
20
0
−20
−40
−60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −565.6
Std Dev 0
2
1
0
−1
−2

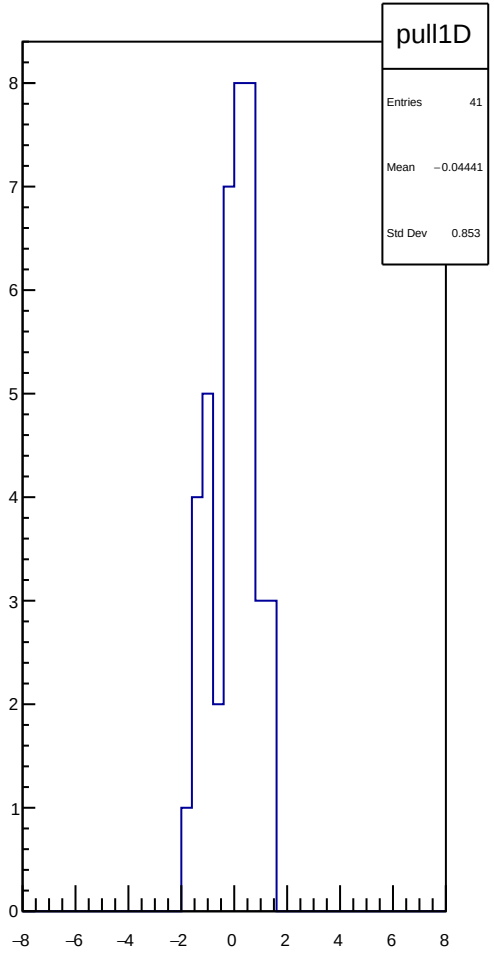

pull1D
Entries 41
Mean 0.00802
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

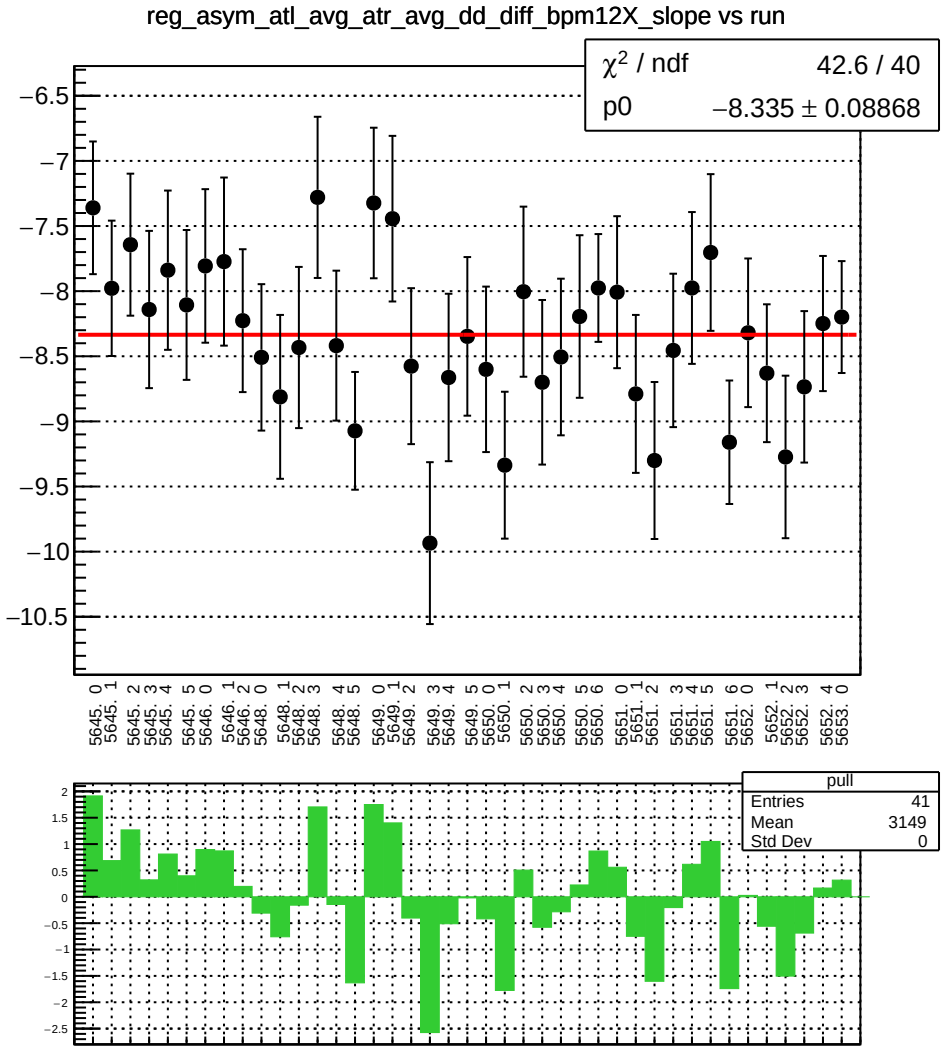

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.74 / 40
p0 3.023 ± 2.073
pull
Entries 41
Mean 117.1
Std Dev 0
pull1D
Entries 41
Mean 0.03841
Std Dev 0.8509

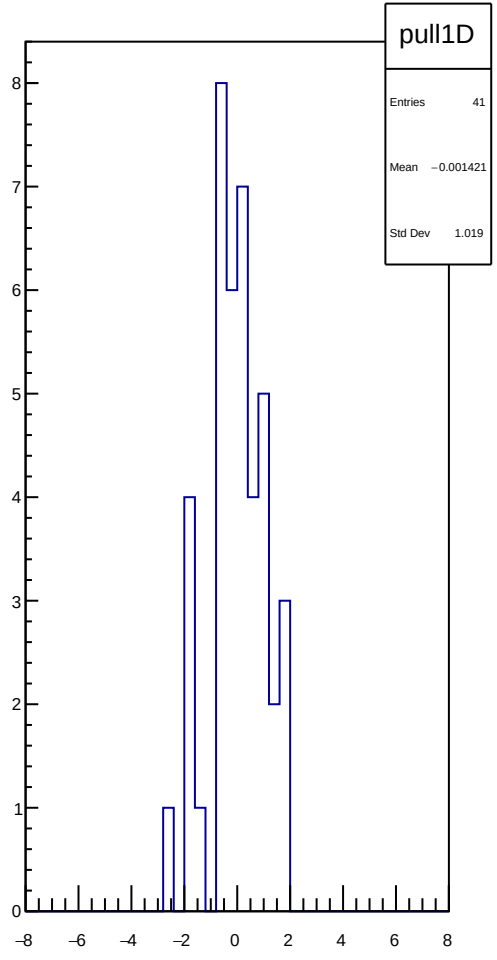

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.39 / 40
p0 −8.678 ± 2.178
pull
Entries 41
Mean −492.8
Std Dev 0

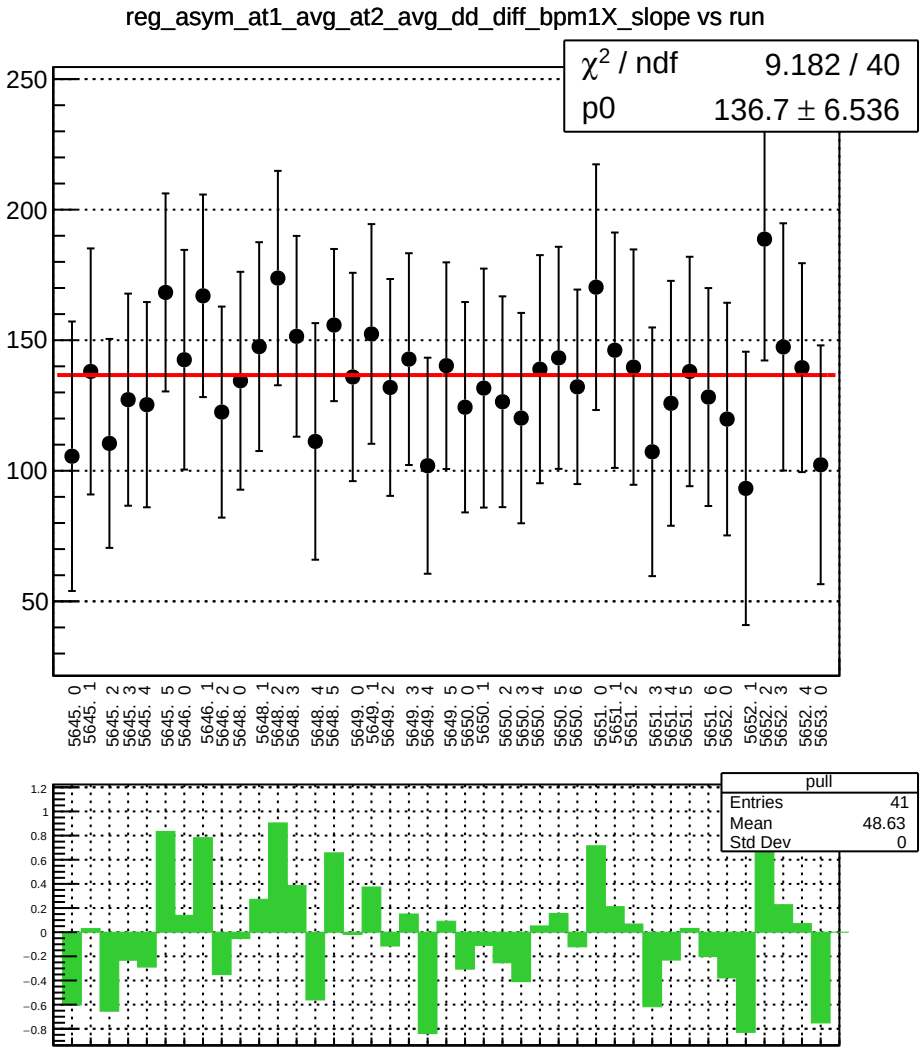

pull1D
Entries 41
Mean −0.009087
Std Dev 1.017

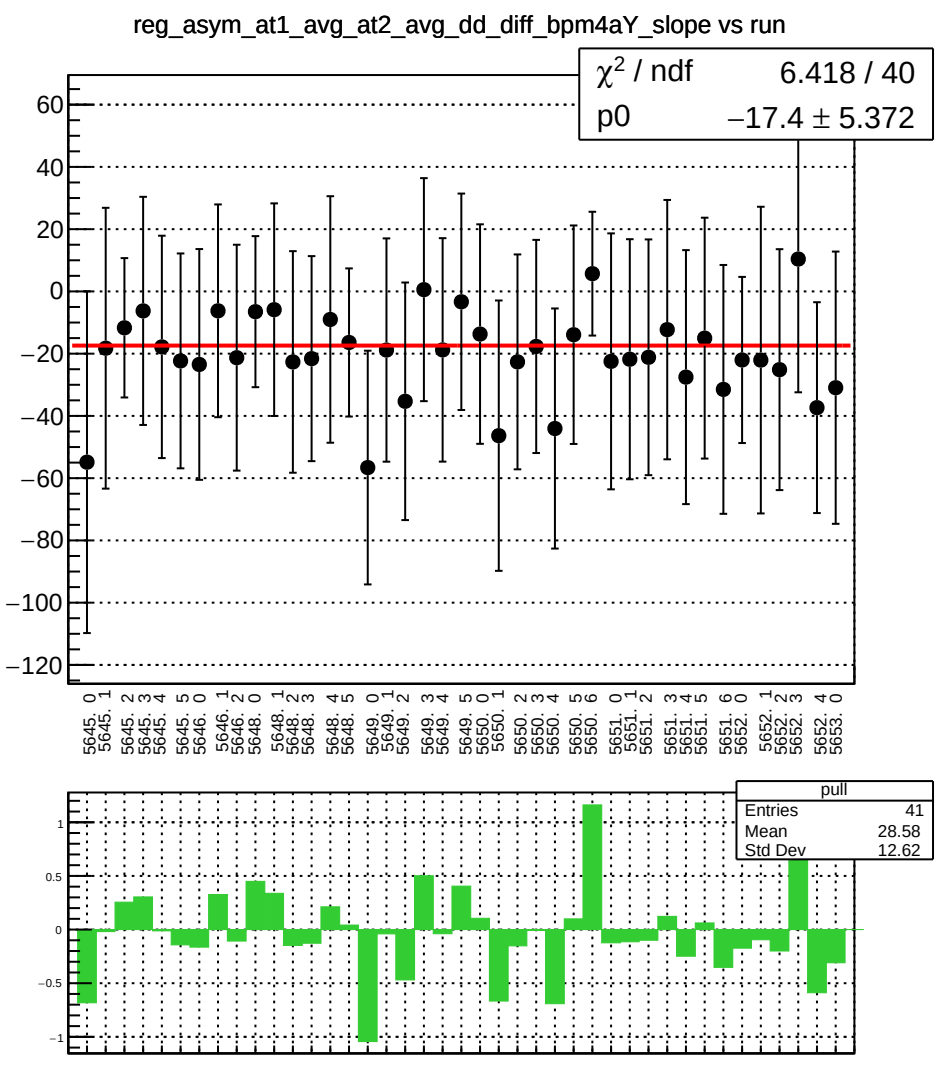

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.91 / 40
p0 −2.405 ± 2.607
pull
Entries 41
Mean 104.7
Std Dev 0

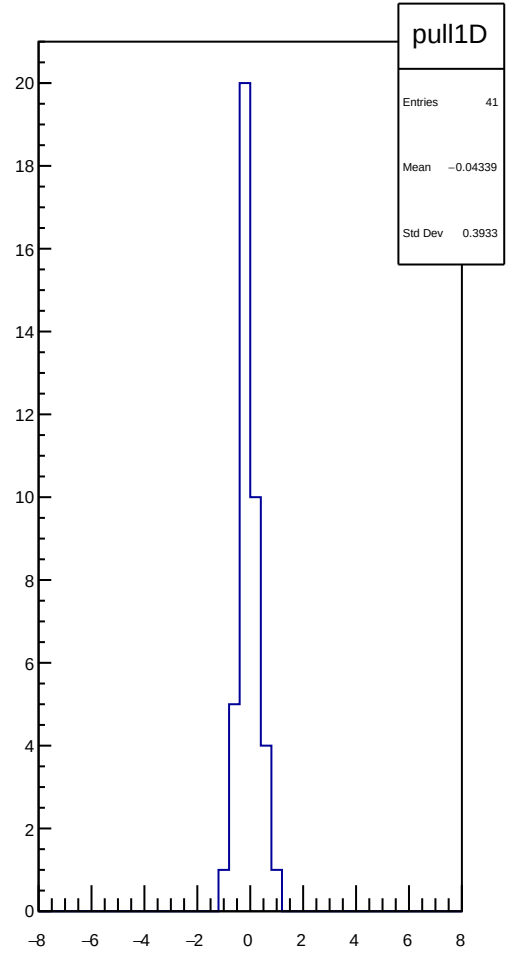

pull1D
Entries 41
Mean −0.04441
Std Dev 0.853

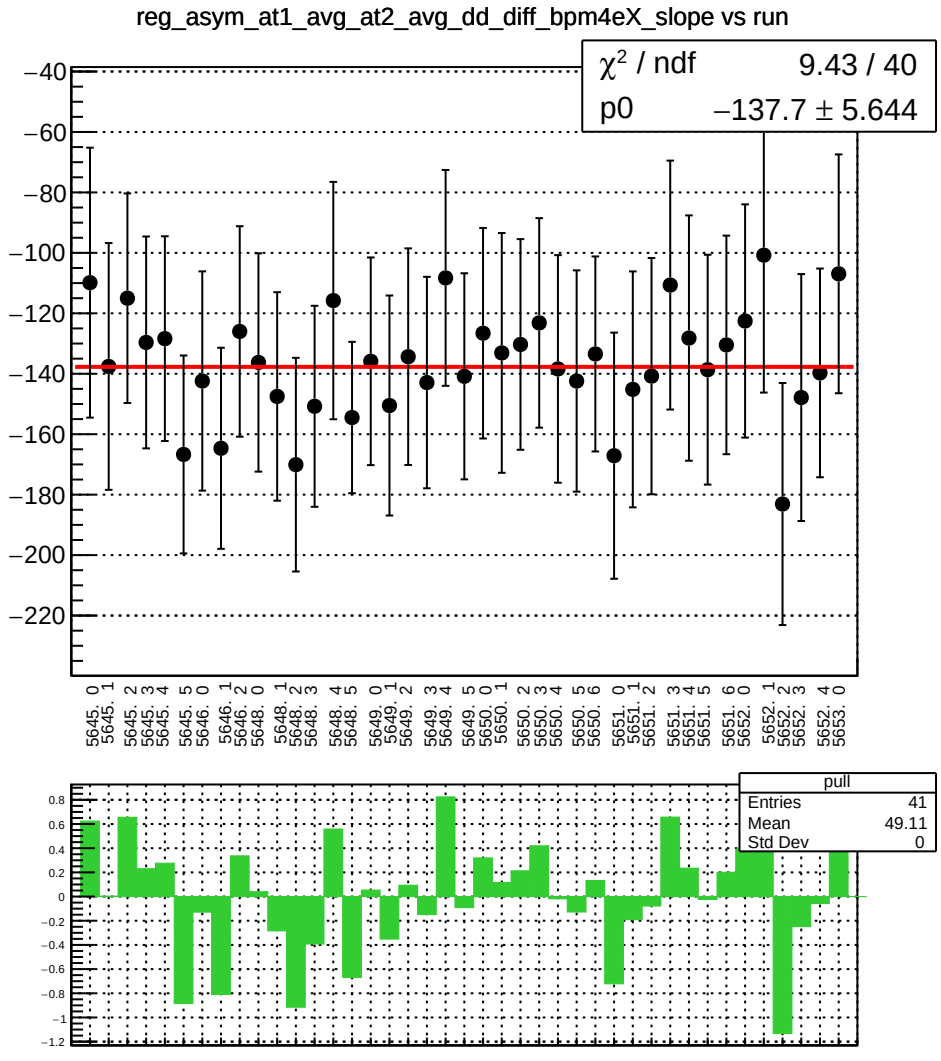

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 42.6 / 40
p0 −8.335 ± 0.08868
pull
Entries 41
Mean 3149
Std Dev 0

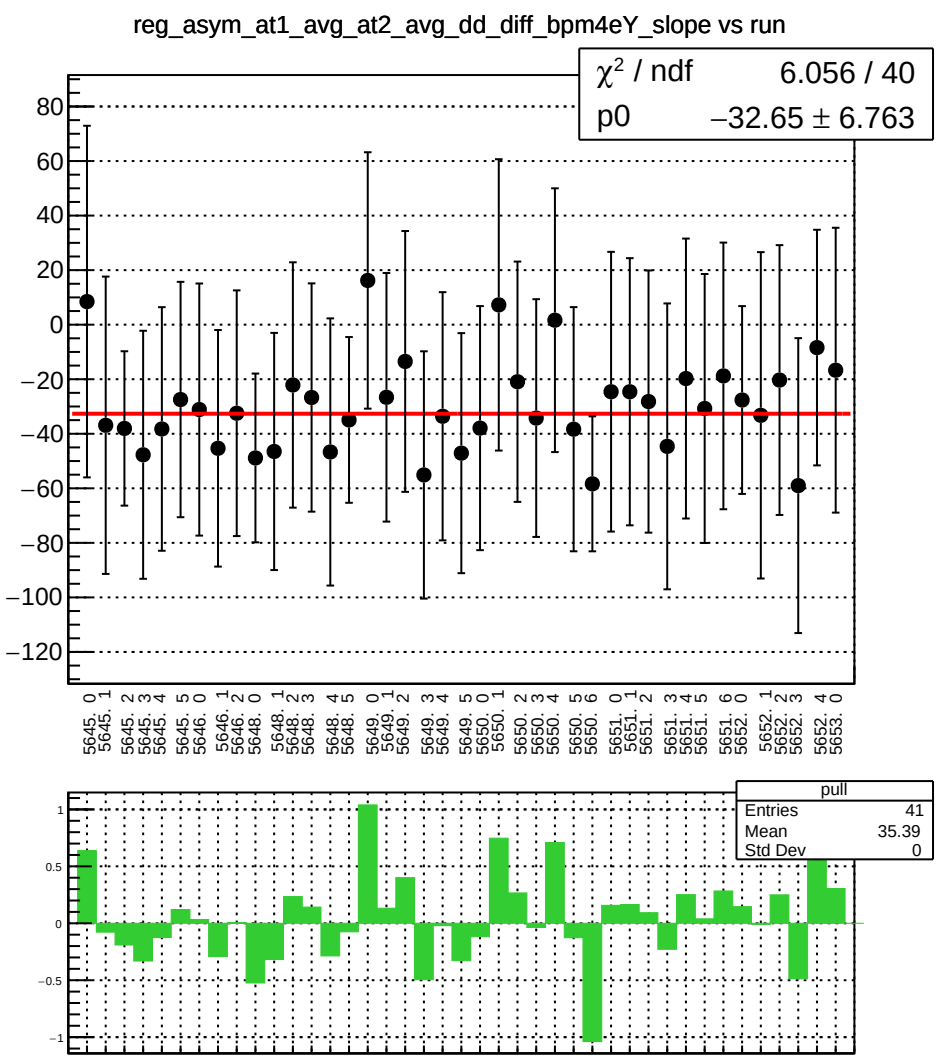

pull1D
Entries 41
Mean −0.001421
Std Dev 1.019

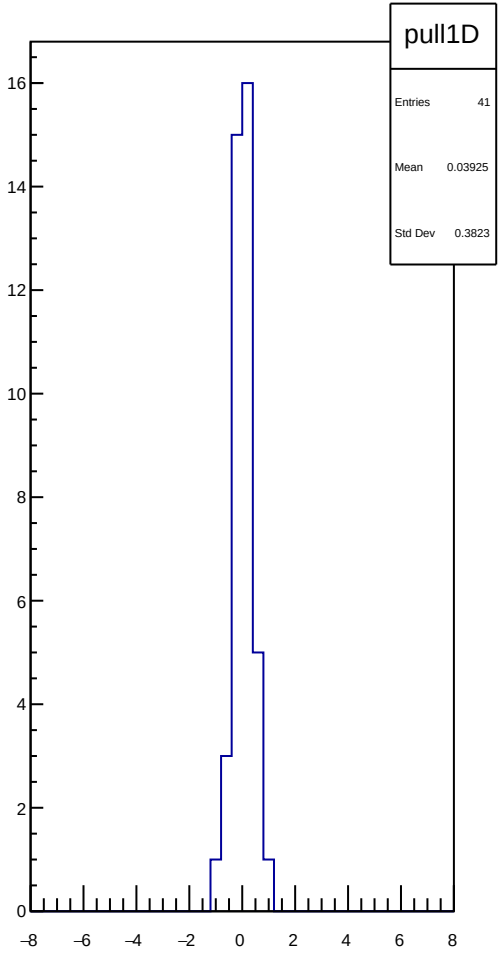

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.182 / 40
p0 136.7 ± 6.536
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 48.63
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.01584
Std Dev 0.473
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

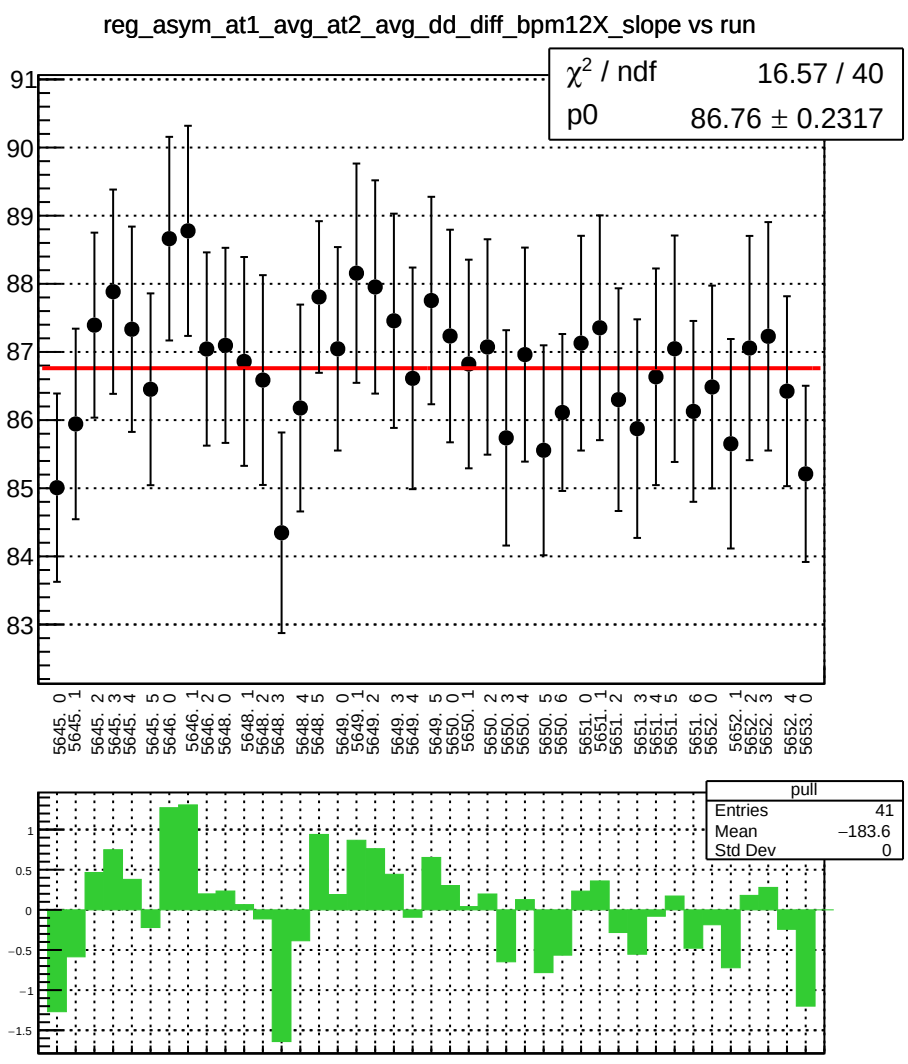

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.418 / 40
p0 −17.4 ± 5.372
pull
Entries 41
Mean 28.58
Std Dev 12.62

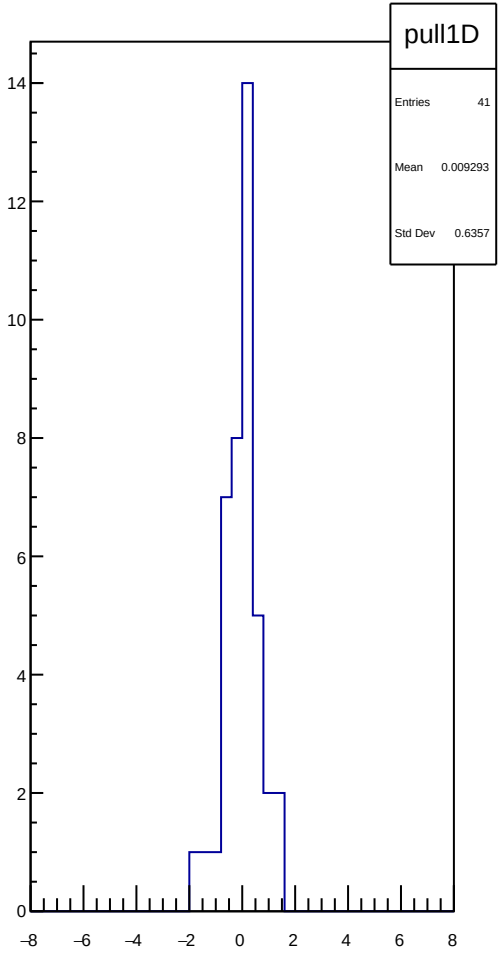

pull1D
Entries 41
Mean −0.04339
Std Dev 0.3933

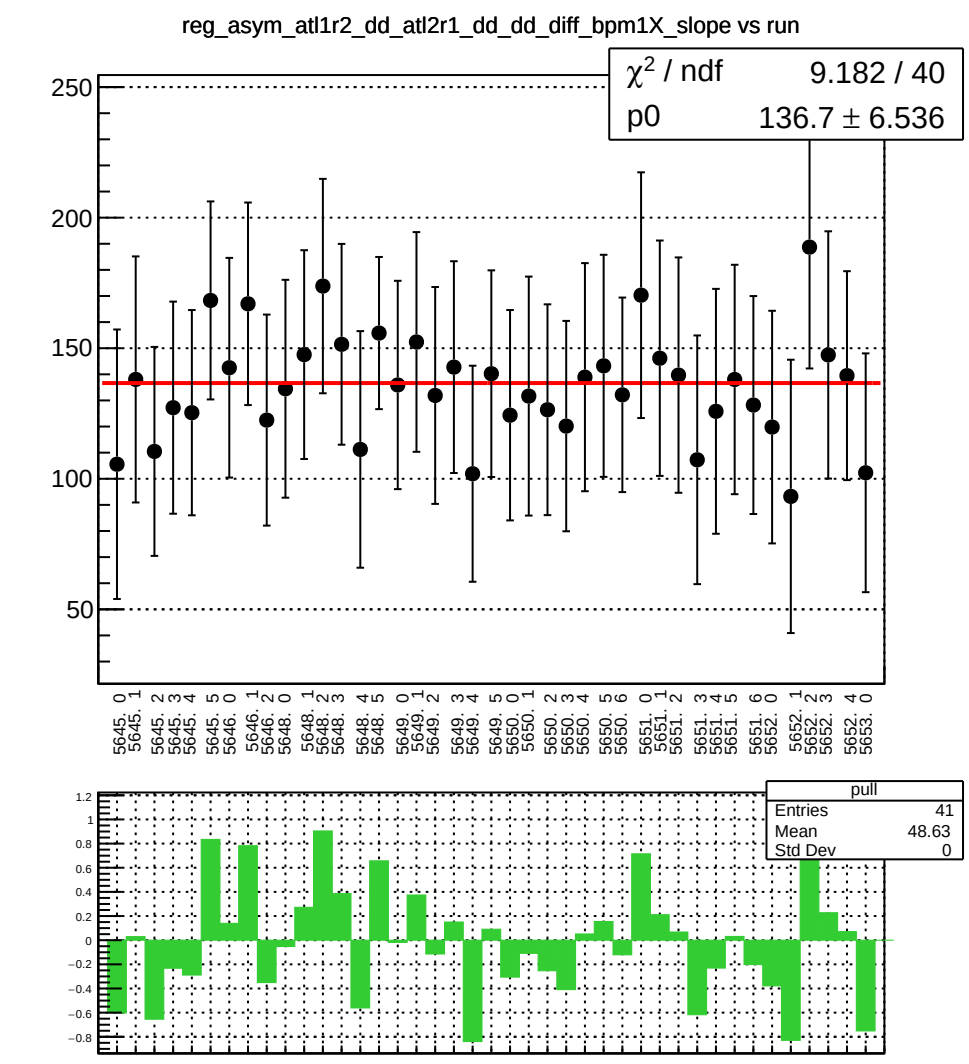

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.43 / 40
p0 −137.7 ± 5.644
pull
Entries 41
Mean 49.11
Std Dev 0
pull1D
Entries 41
Mean 0.01702
Std Dev 0.4793

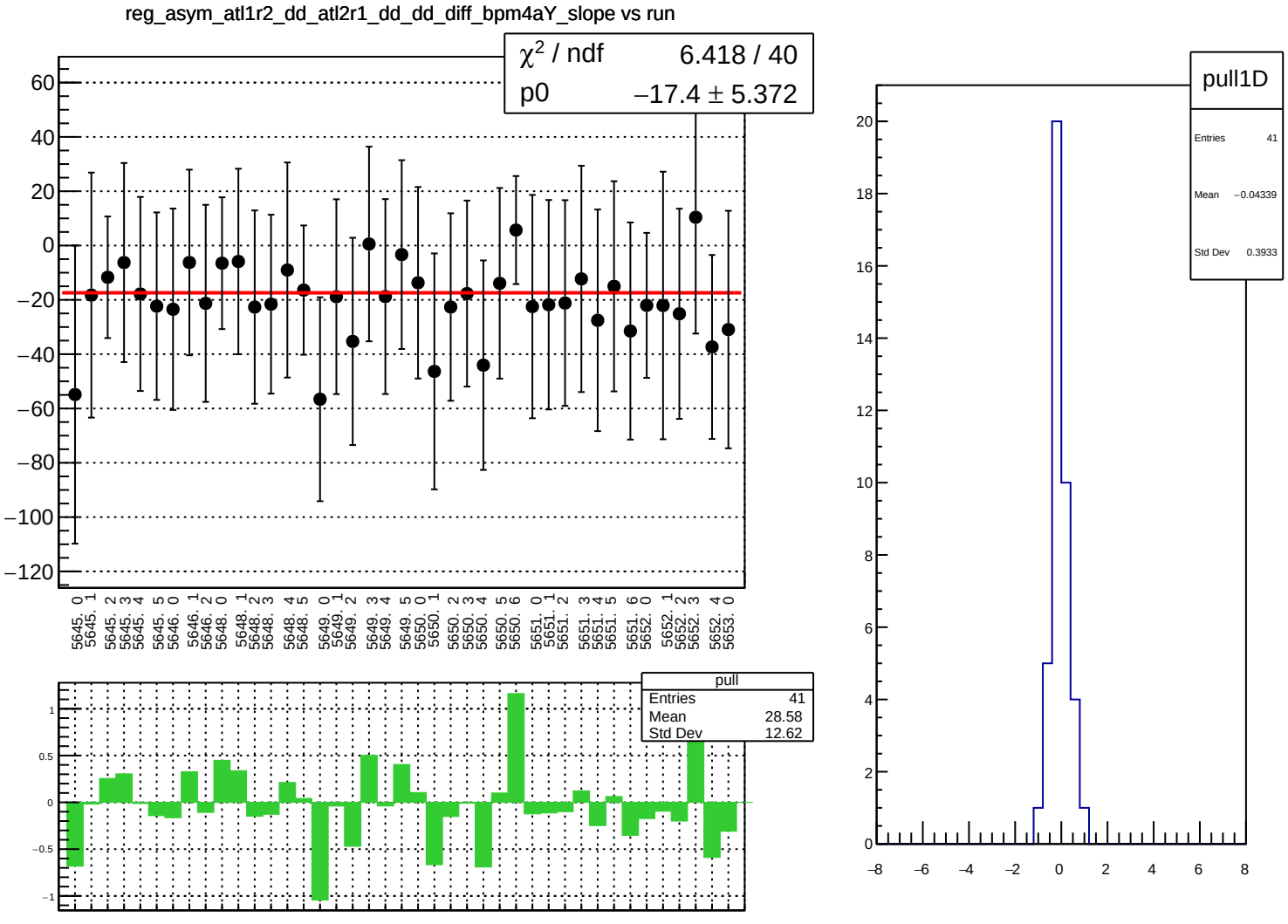

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.056 / 40
p0 −32.65 ± 6.763
pull
Entries 41
Mean 35.39
Std Dev 0

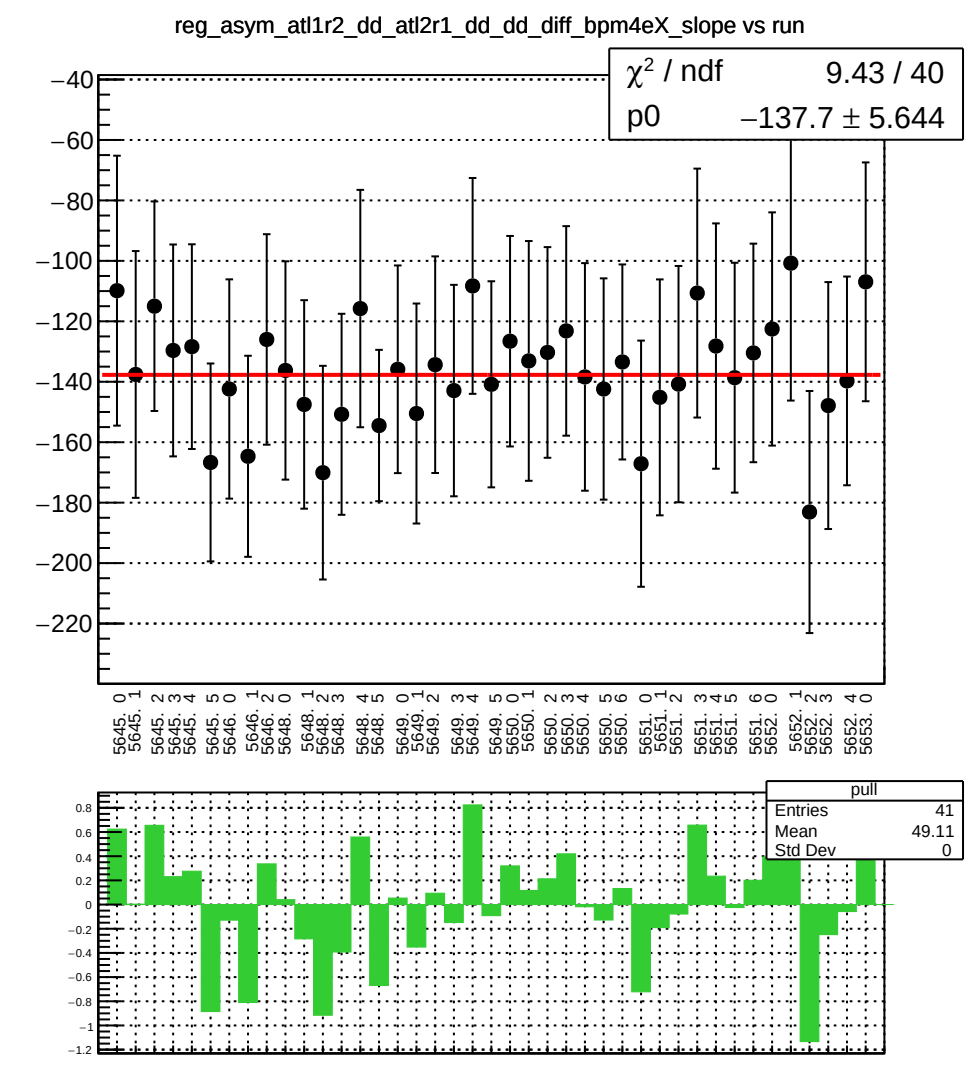

pull1D
Entries 41
Mean 0.03925
Std Dev 0.3823

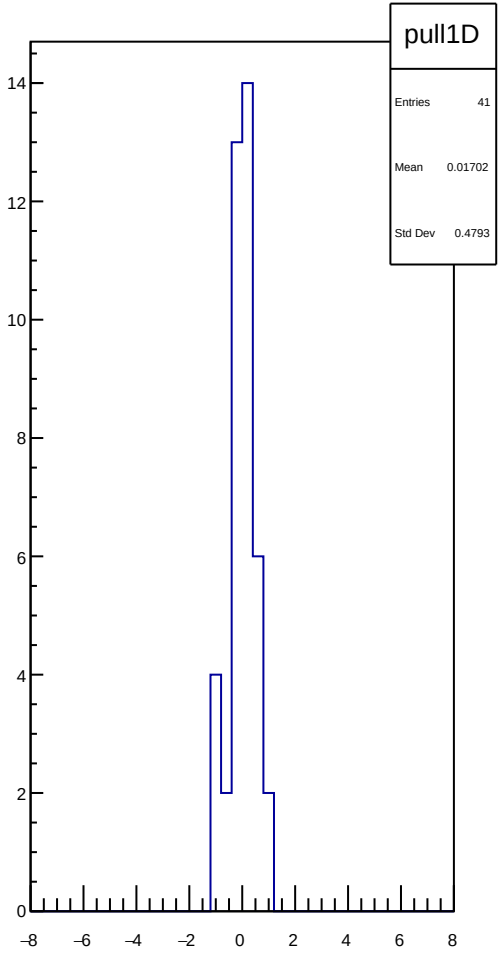

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 16.57 / 40
p0 86.76 ± 0.2317
pull
Entries 41
Mean −183.6
Std Dev 0

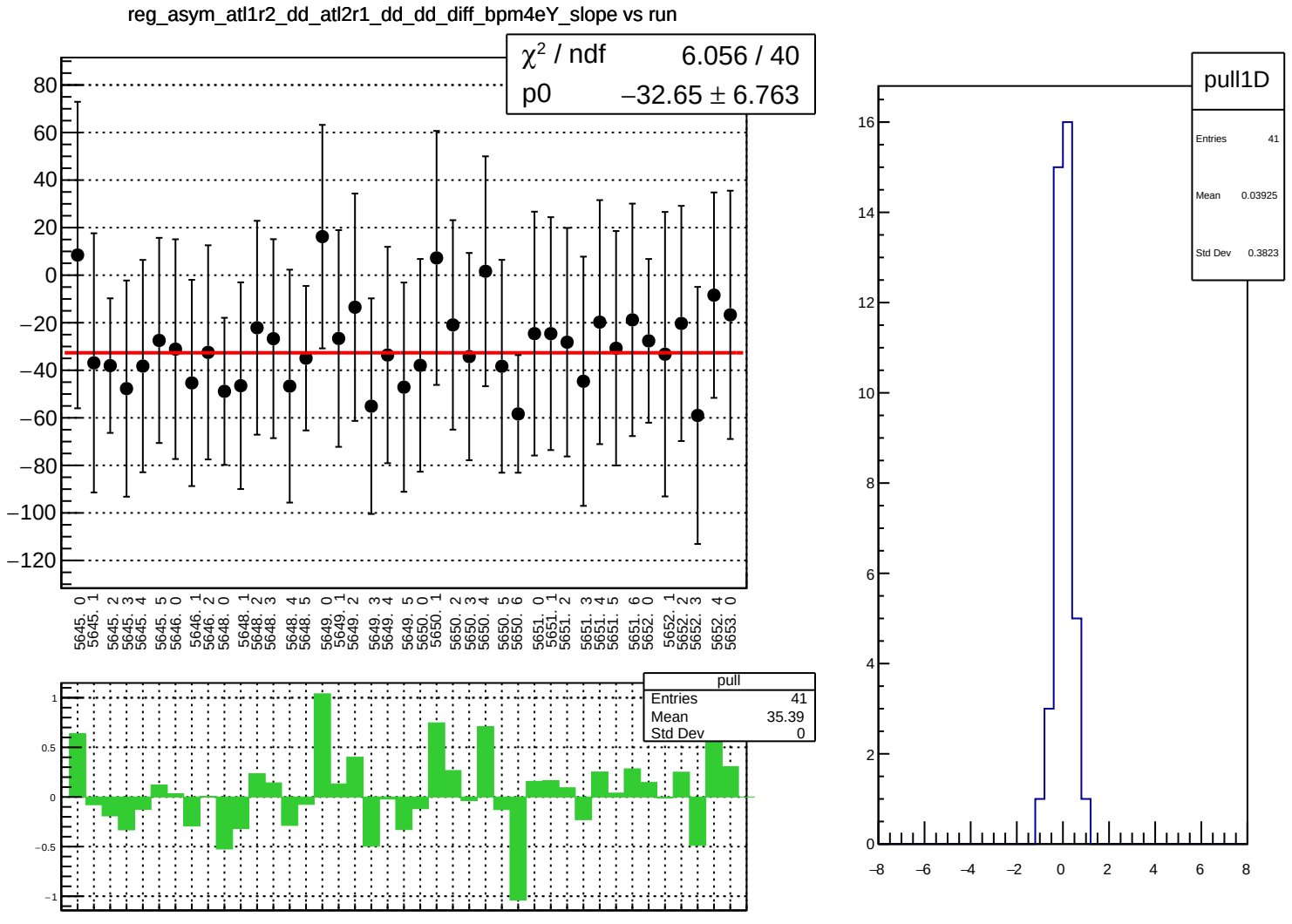

pull1D
Entries 41
Mean 0.009293
Std Dev 0.6357

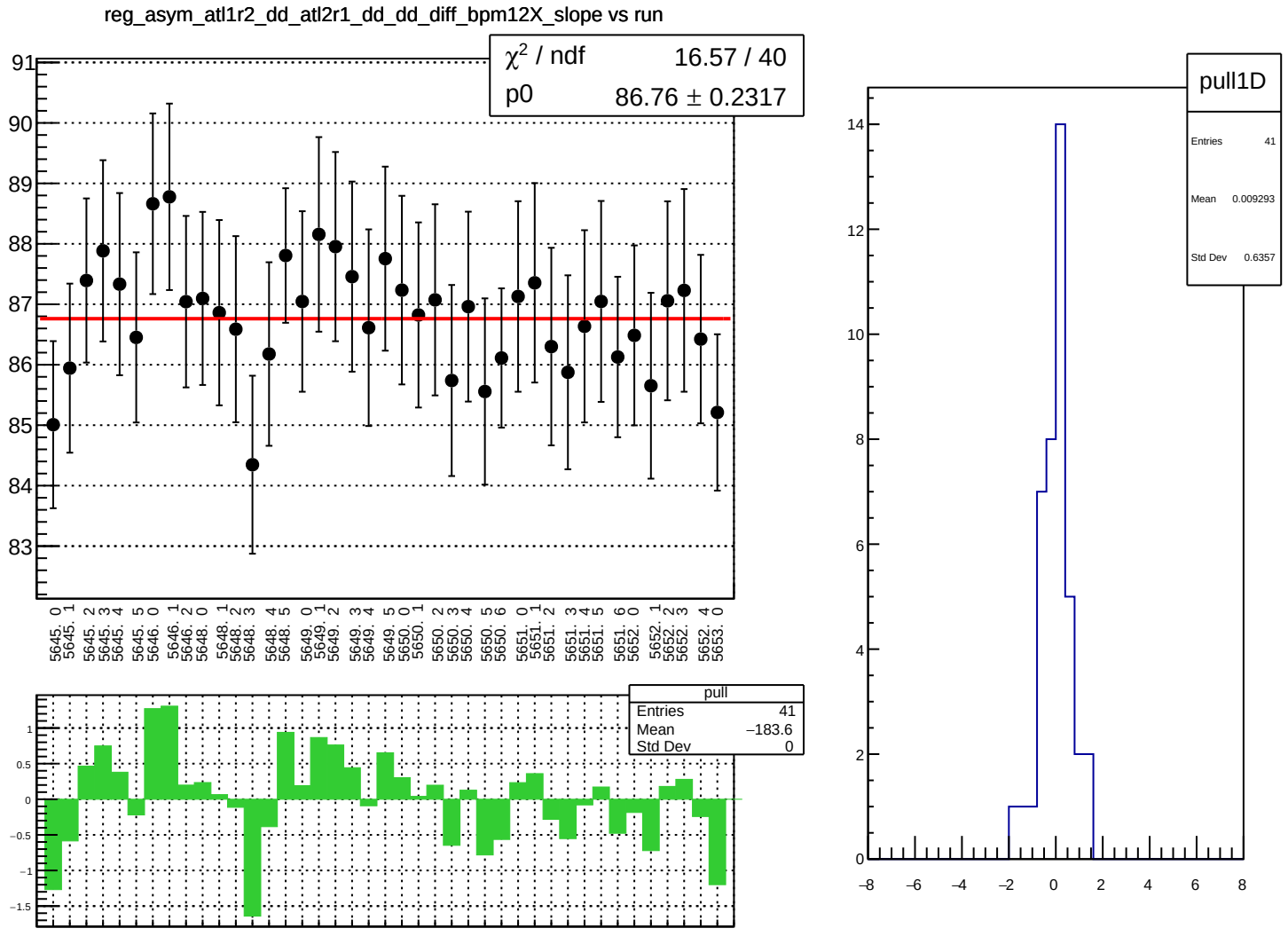

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 9.182 / 40
p0 136.7 ± 6.536
250
200
150
100
50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 48.63
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.01584
Std Dev 0.473
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

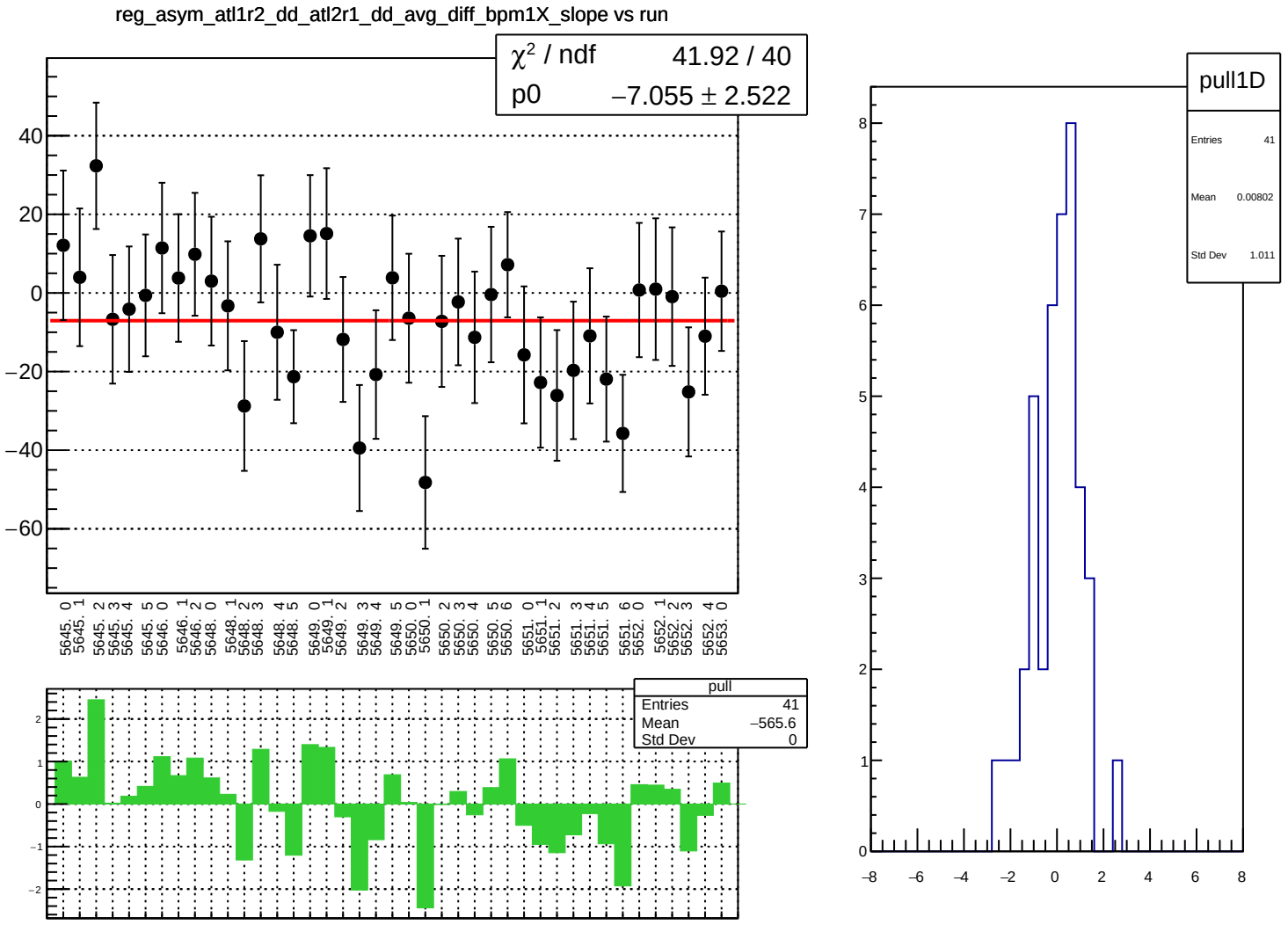

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.418 / 40
p0 −17.4 ± 5.372
pull
Entries 41
Mean 28.58
Std Dev 12.62
pull1D
Entries 41
Mean −0.04339
Std Dev 0.3933

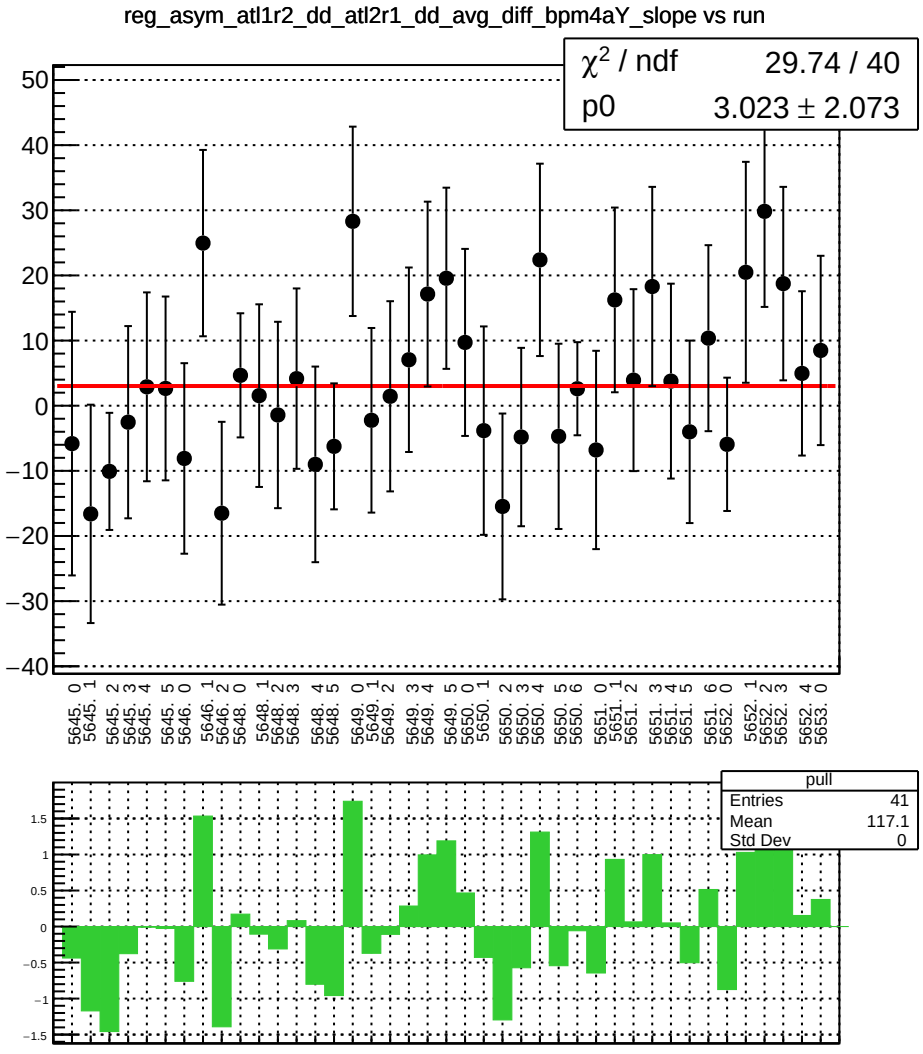

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.43 / 40
p0 −137.7 ± 5.644
pull
Entries 41
Mean 49.11
Std Dev 0

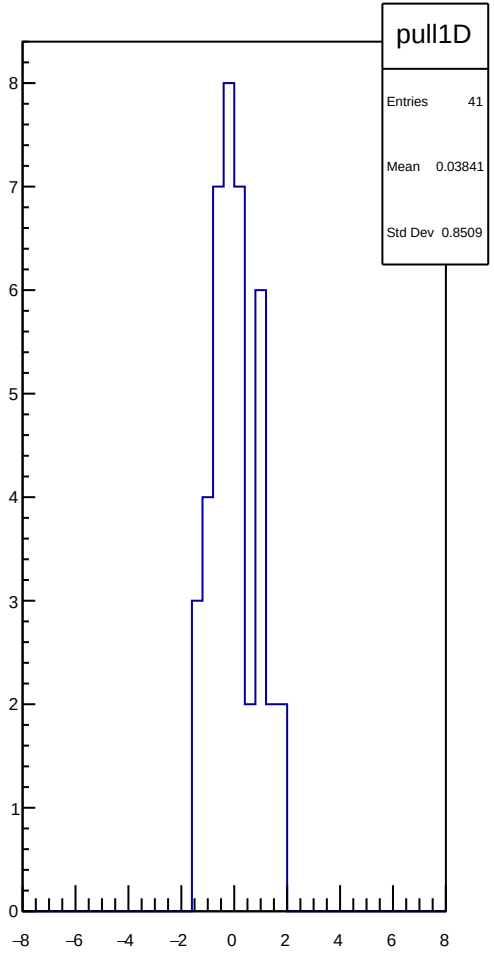

pull1D
Entries 41
Mean 0.01702
Std Dev 0.4793

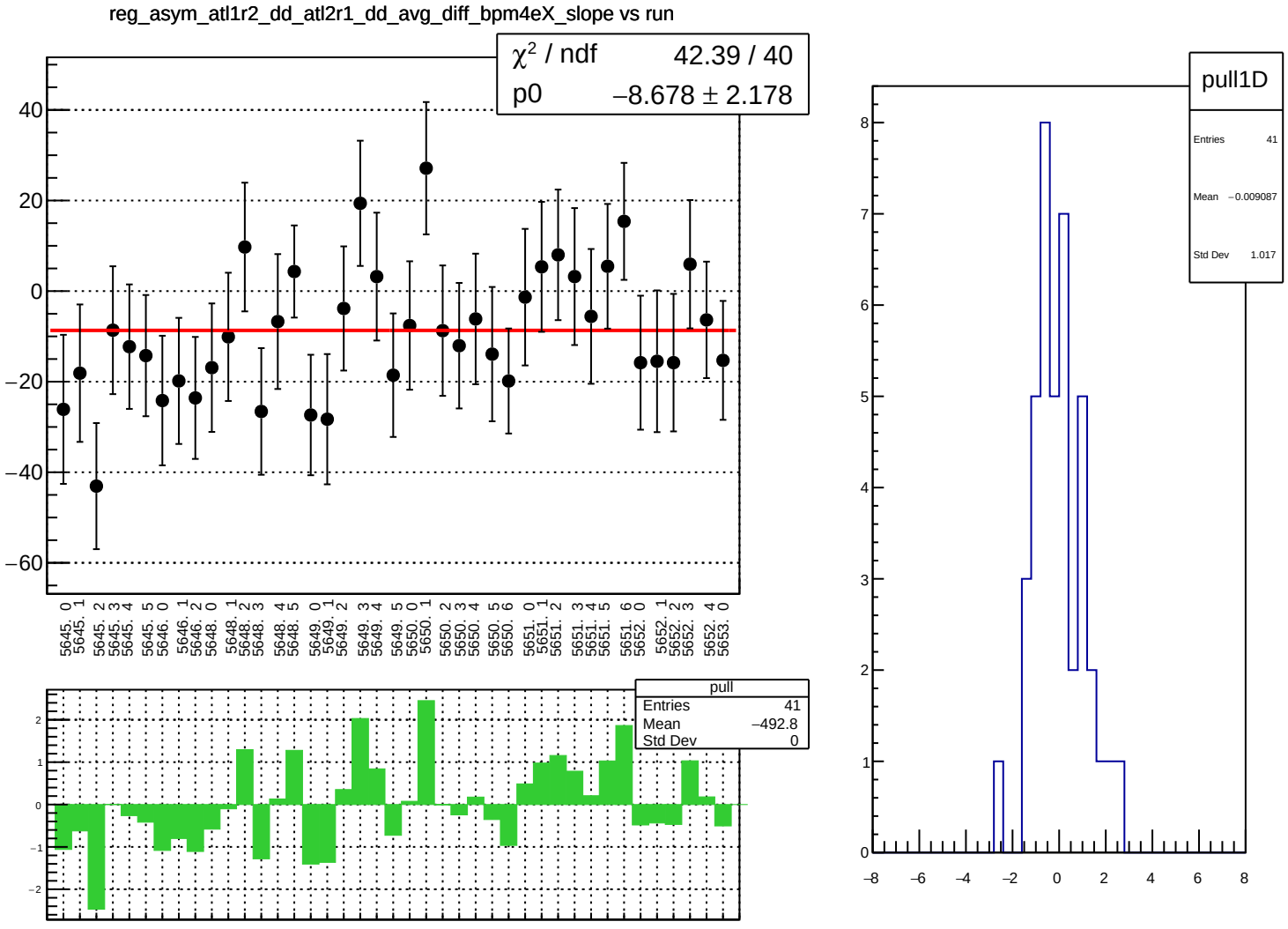

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.056 / 40
p0 −32.65 ± 6.763
pull
Entries 41
Mean 35.39
Std Dev 0
pull1D
Entries 41
Mean 0.03925
Std Dev 0.3823

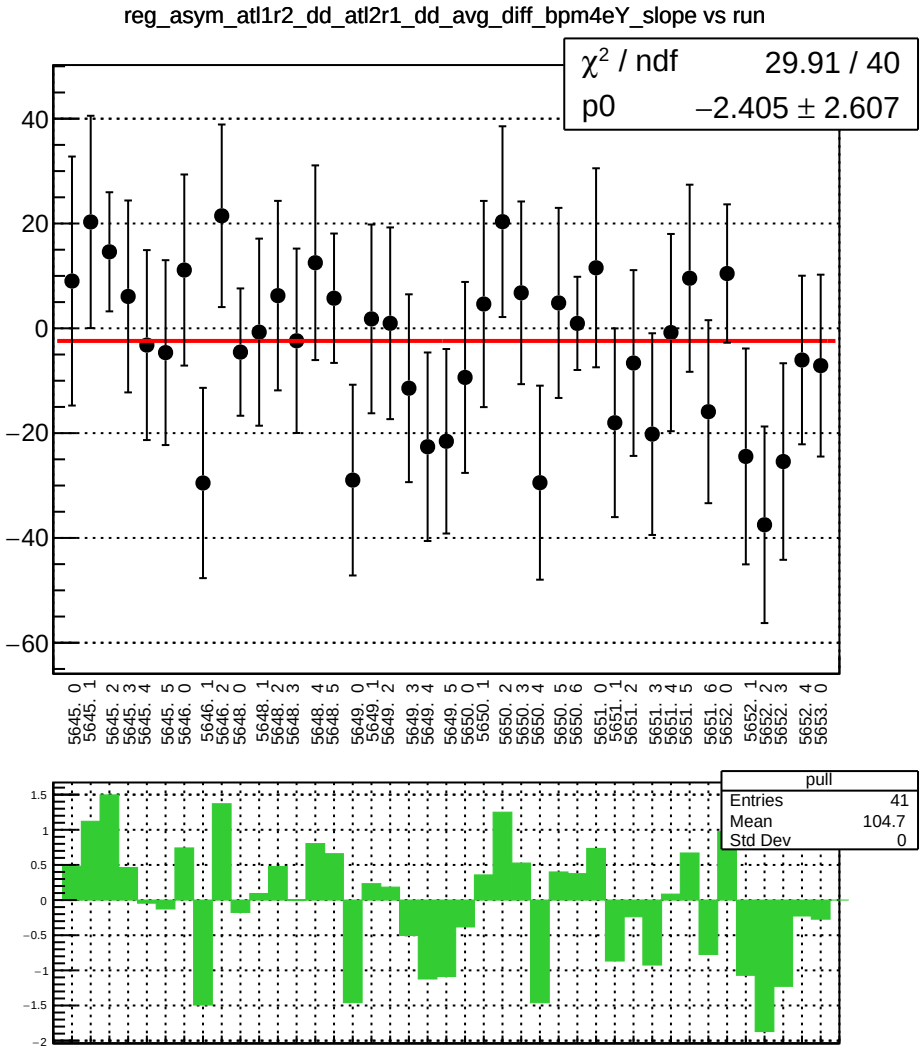

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 16.57 / 40
p0 86.76 ± 0.2317
pull
Entries 41
Mean −183.6
Std Dev 0
pull1D
Entries 41
Mean 0.009293
Std Dev 0.6357

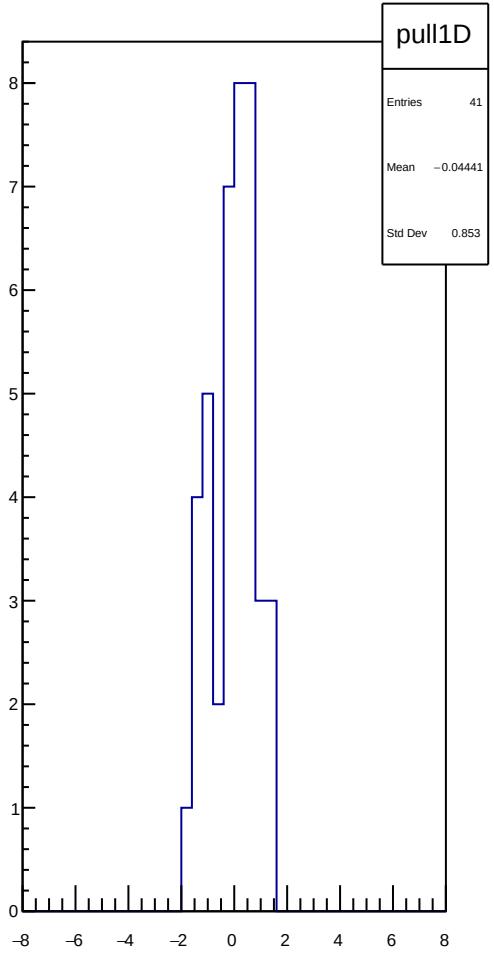

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 41.92 / 40
p0 −7.055 ± 2.522
40
20
0
−20
−40
−60
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −565.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.00802
Std Dev 1.011
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

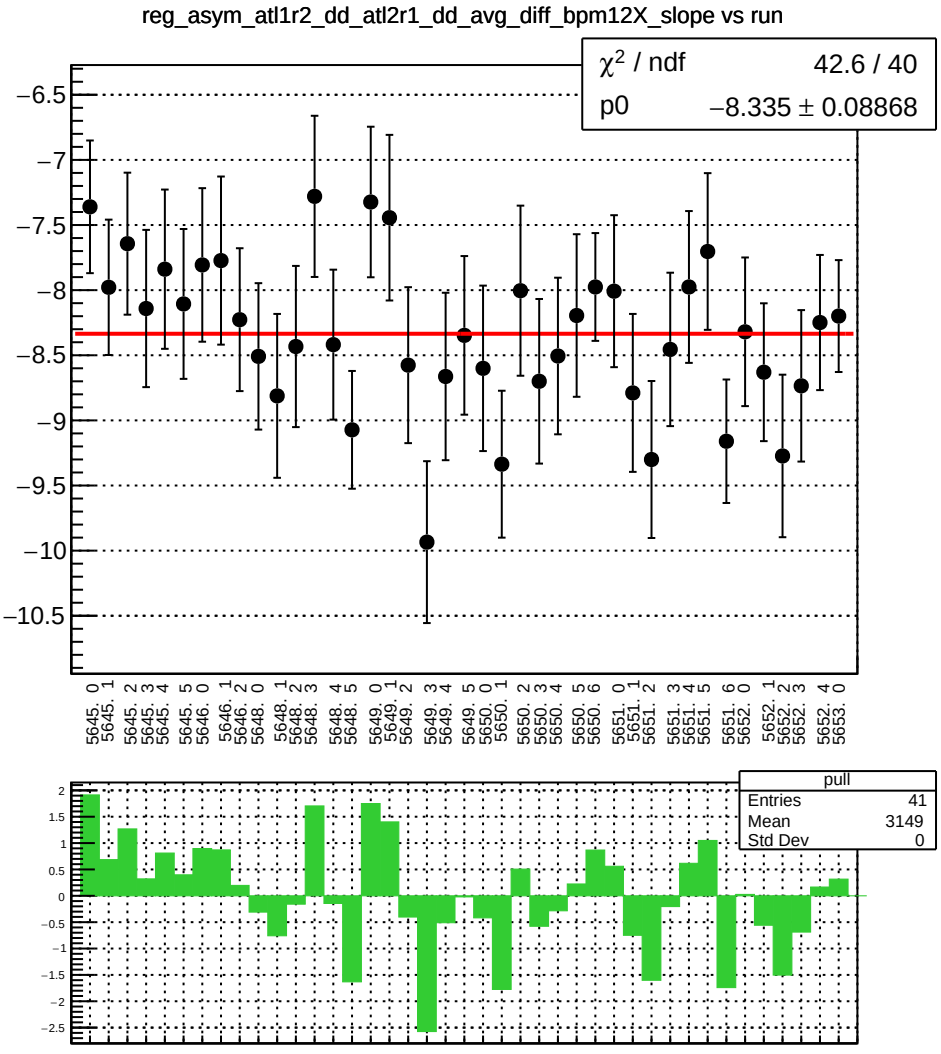

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.74 / 40
p0 3.023 ± 2.073
pull
Entries 41
Mean 117.1
Std Dev 0

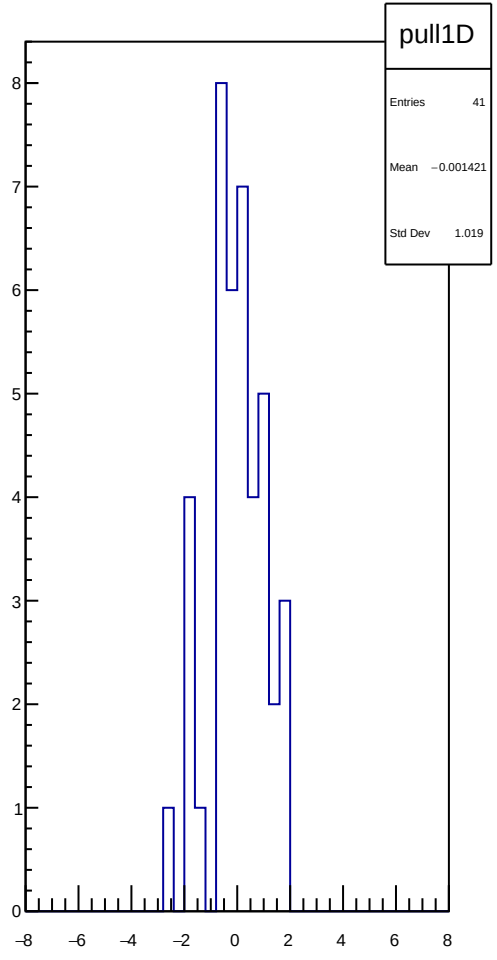

pull1D
Entries 41
Mean 0.03841
Std Dev 0.8509

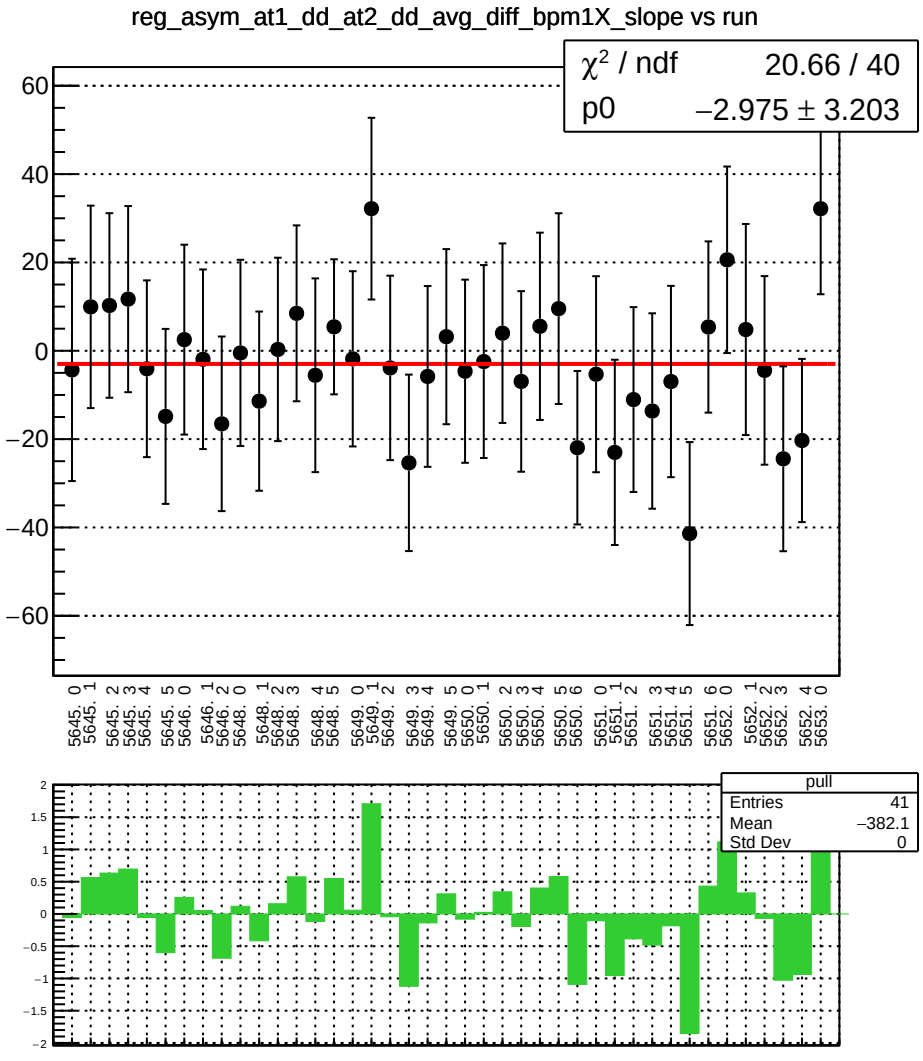

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.39 / 40
p0 −8.678 ± 2.178
pull
Entries 41
Mean −492.8
Std Dev 0
pull1D
Entries 41
Mean −0.009087
Std Dev 1.017

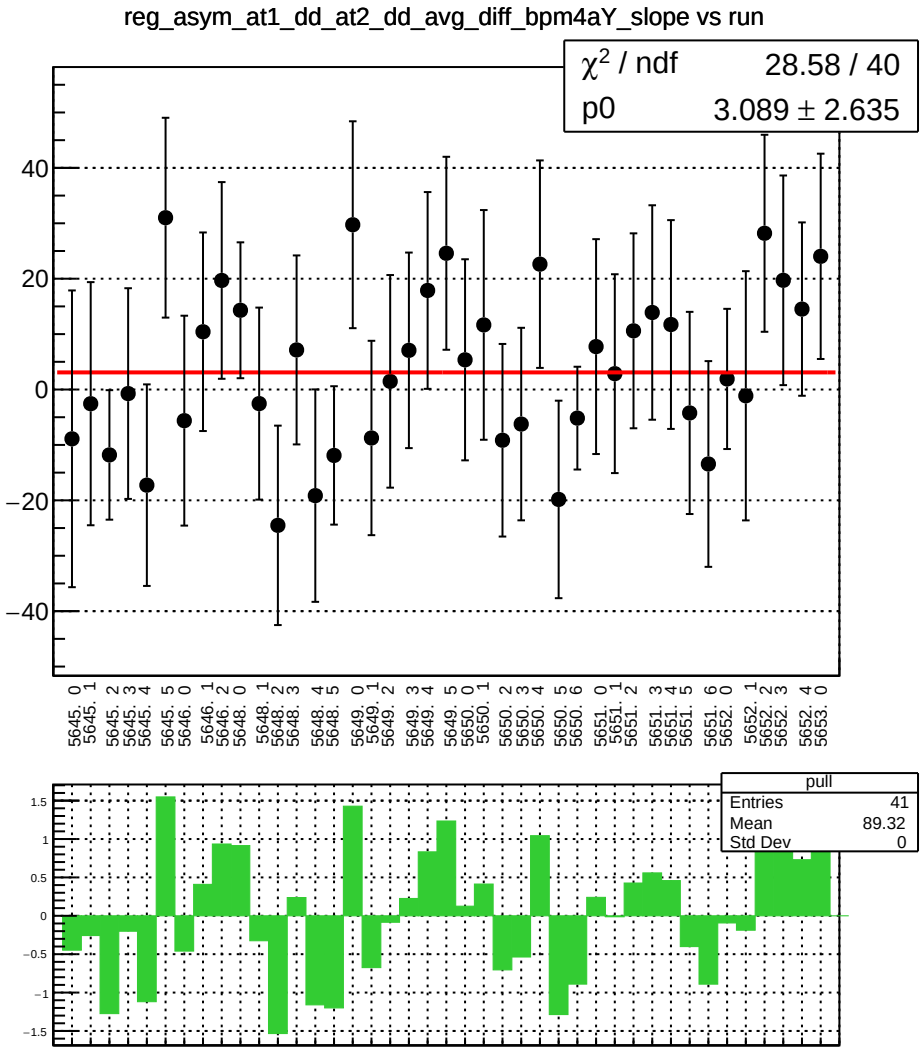

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.91 / 40
p0 −2.405 ± 2.607
pull
Entries 41
Mean 104.7
Std Dev 0

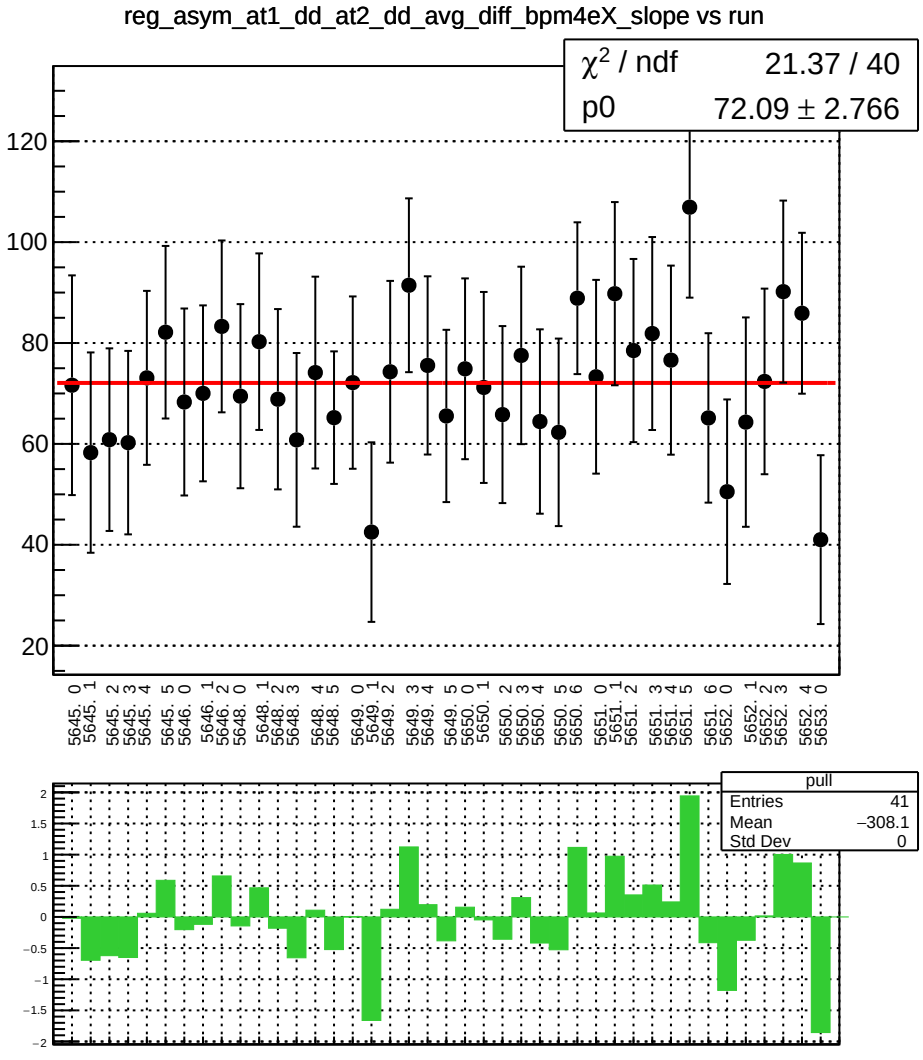

pull1D
Entries 41
Mean −0.04441
Std Dev 0.853

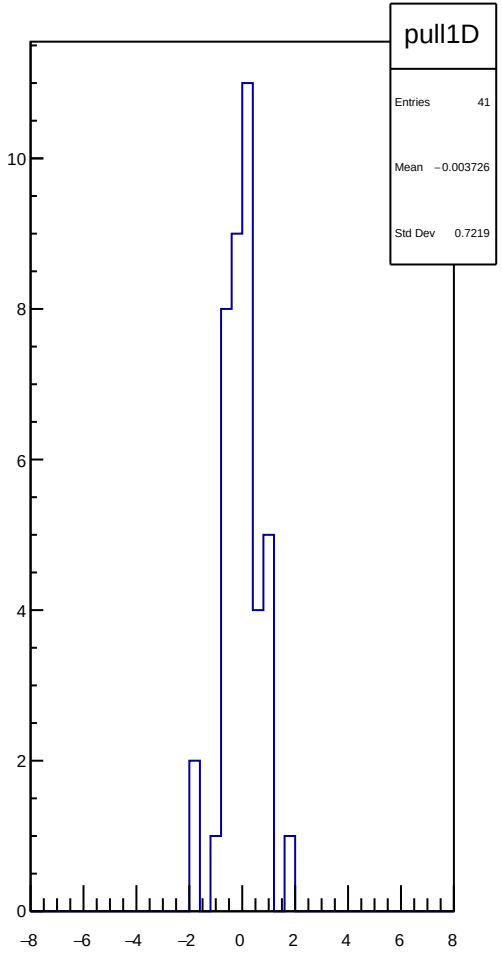

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 42.6 / 40
p0 −8.335 ± 0.08868
pull
Entries 41
Mean 3149
Std Dev 0

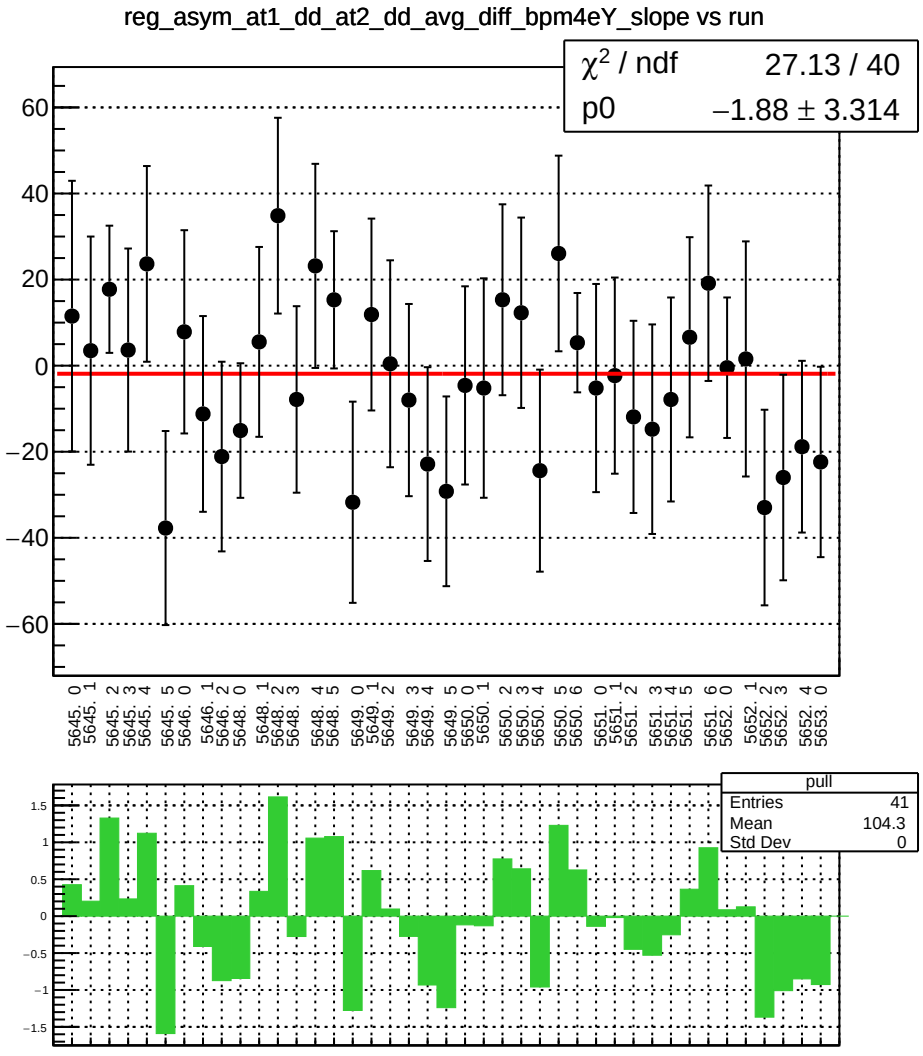

pull1D
Entries 41
Mean −0.001421
Std Dev 1.019

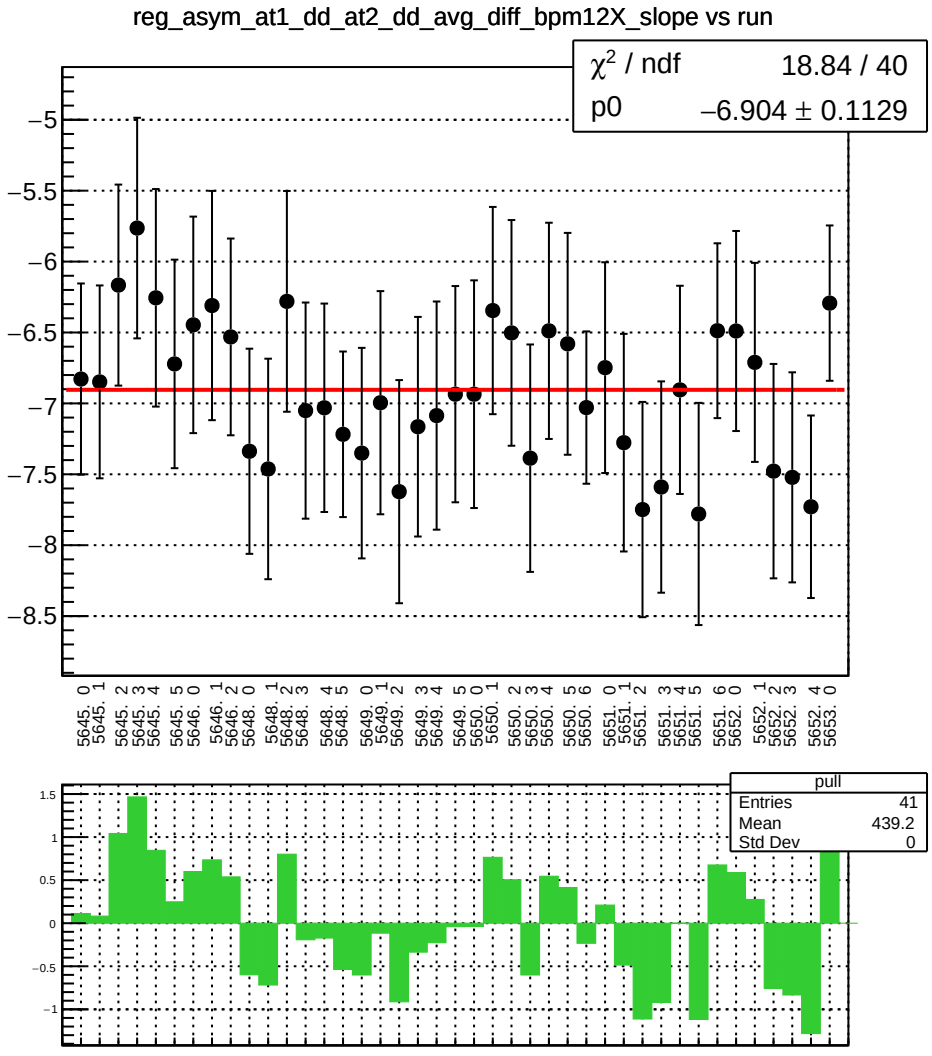

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 20.66 / 40
p0 −2.975 ± 3.203
pull
Entries 41
Mean −382.1
Std Dev 0
pull1D
Entries 41
Mean 0.002988
Std Dev 0.7099

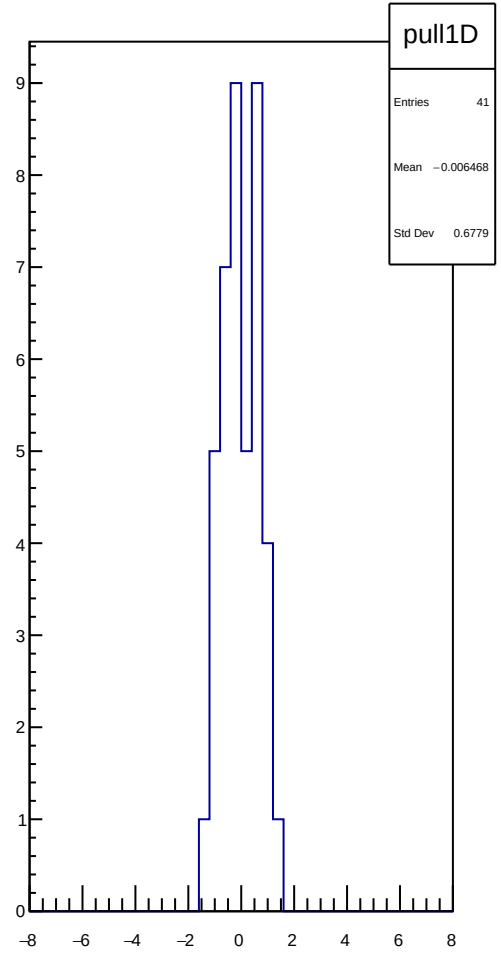

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.58 / 40
p0 3.089 ± 2.635
pull
Entries 41
Mean 89.32
Std Dev 0
pull1D
Entries 41
Mean 0.03531
Std Dev 0.8342

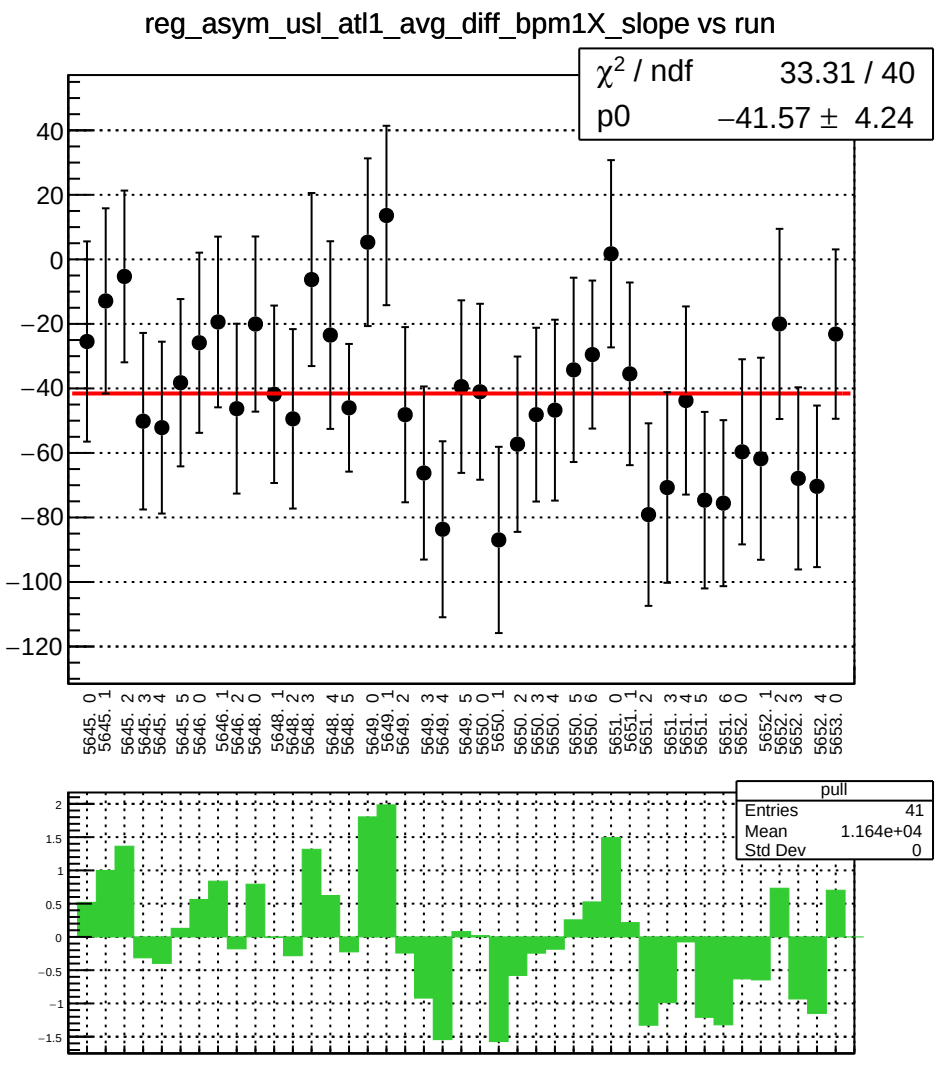

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.37 / 40
p0 72.09 ± 2.766
pull
Entries 41
Mean −308.1
Std Dev 0

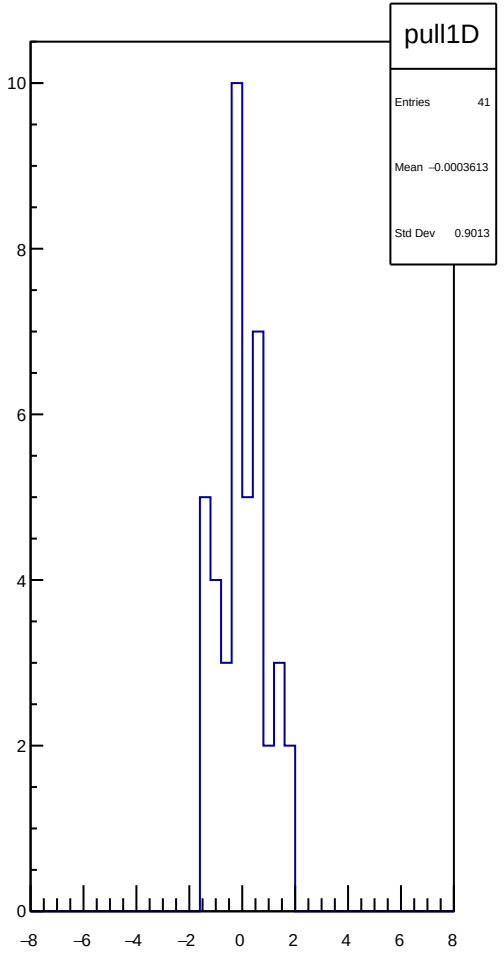

pull1D
Entries 41
Mean −0.003726
Std Dev 0.7219

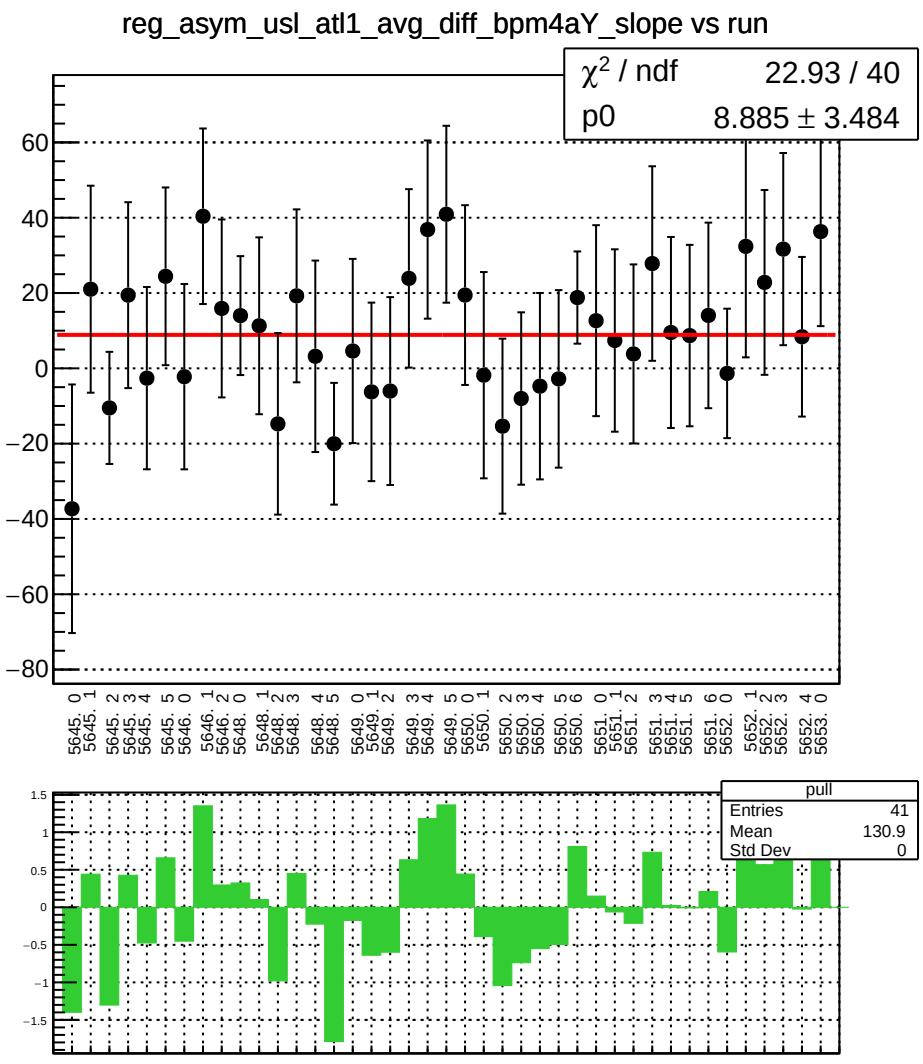

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.13 / 40
p0 −1.88 ± 3.314
pull
Entries 41
Mean 104.3
Std Dev 0
pull1D
Entries 41
Mean −0.02844
Std Dev 0.813

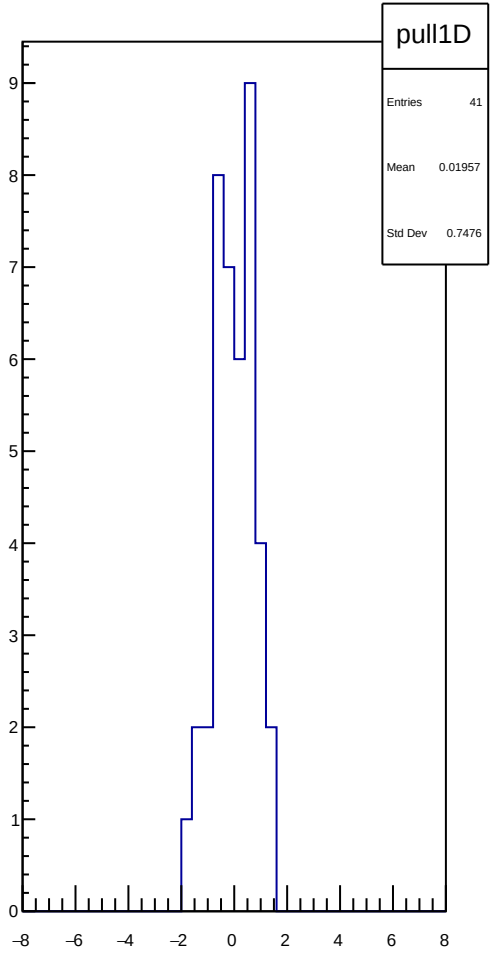

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 18.84 / 40
p0 −6.904 ± 0.1129
pull
Entries 41
Mean 439.2
Std Dev 0

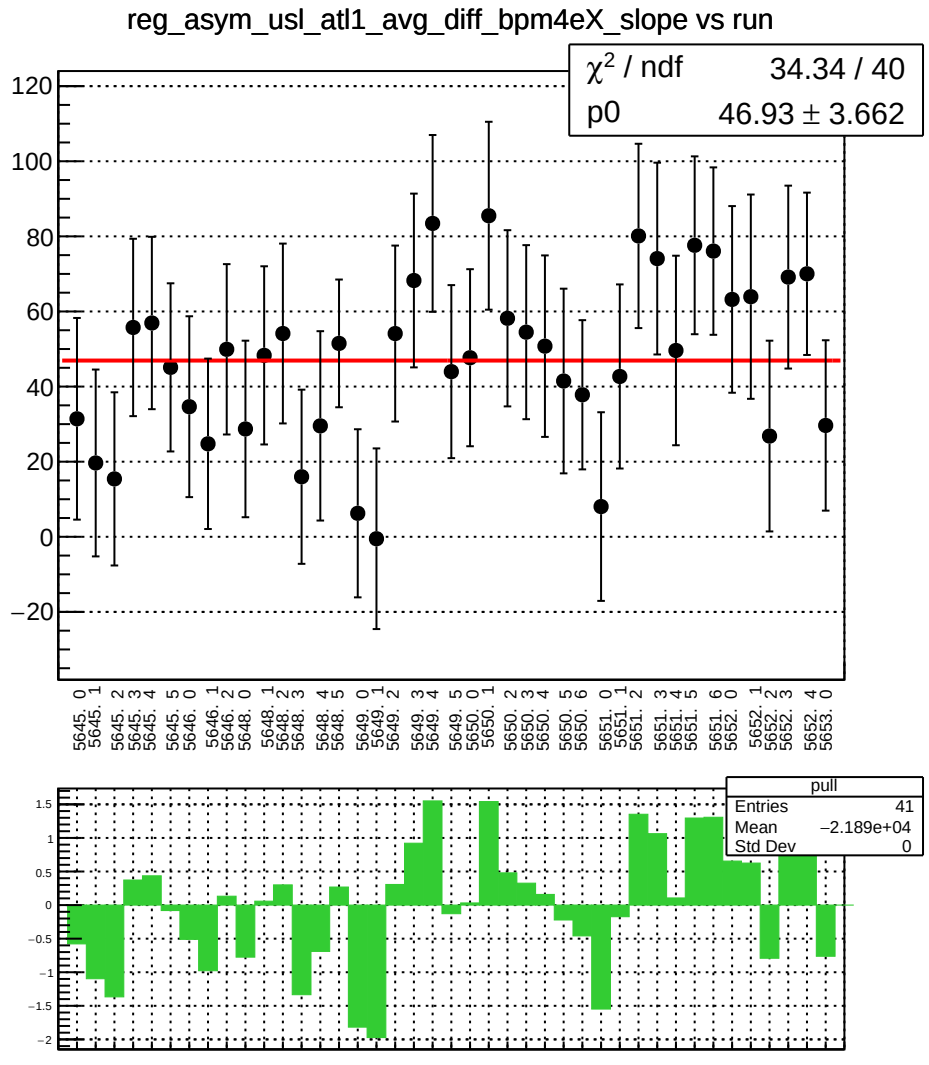

pull1D
Entries 41
Mean −0.006468
Std Dev 0.6779

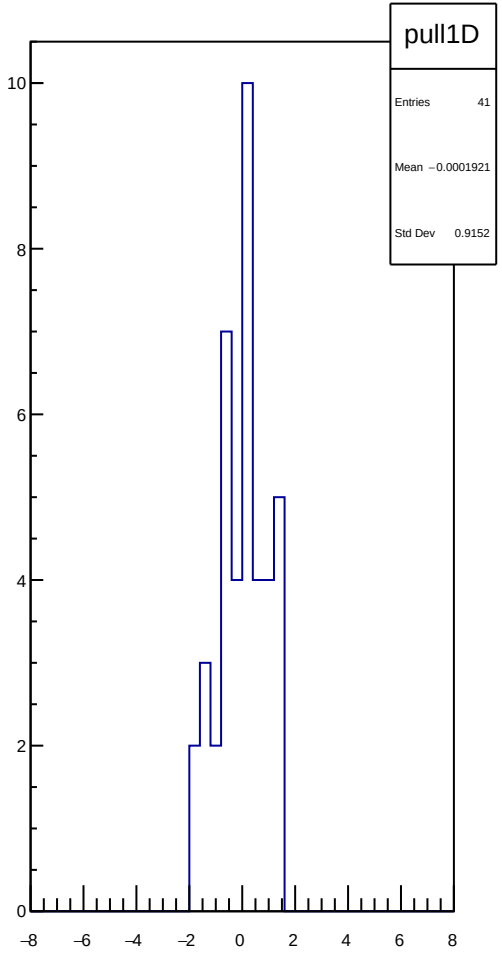

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 33.31 / 40
p0 −41.57 ± 4.24
pull
Entries 41
Mean 1.164e+04
Std Dev 0

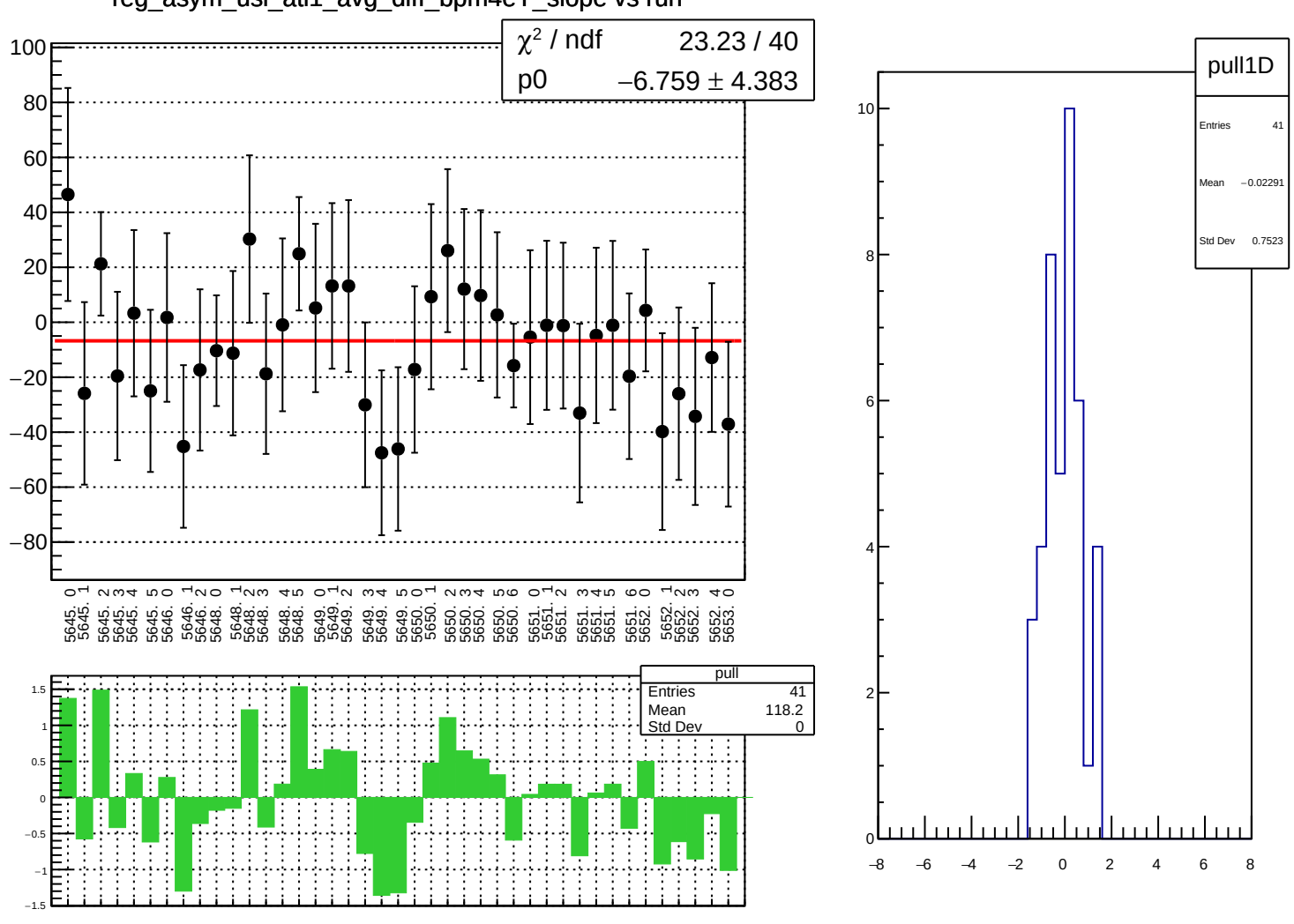

pull1D
Entries 41
Mean −0.0003613
Std Dev 0.9013

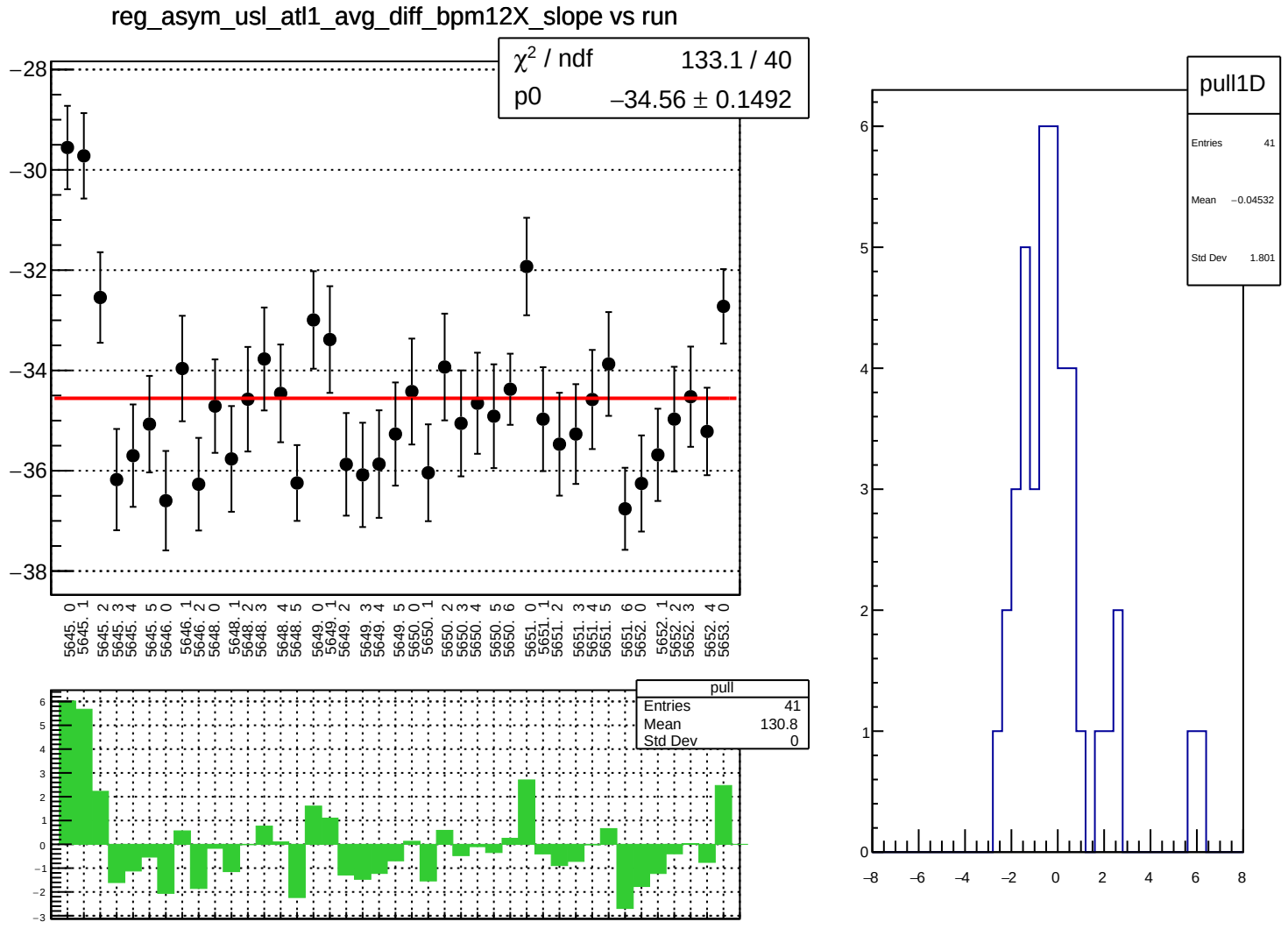

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.93 / 40
p0 8.885 ± 3.484
pull
Entries 41
Mean 130.9
Std Dev 0

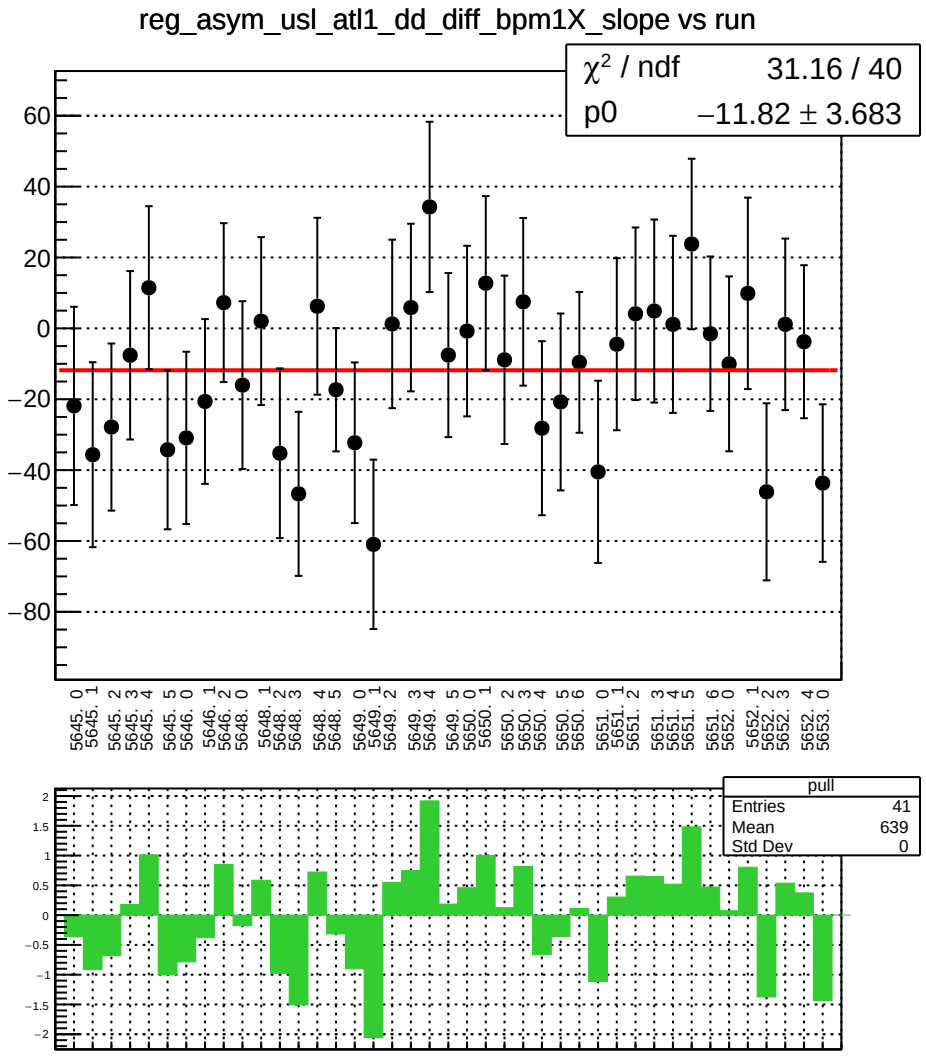

pull1D
Entries 41
Mean 0.01957
Std Dev 0.7476

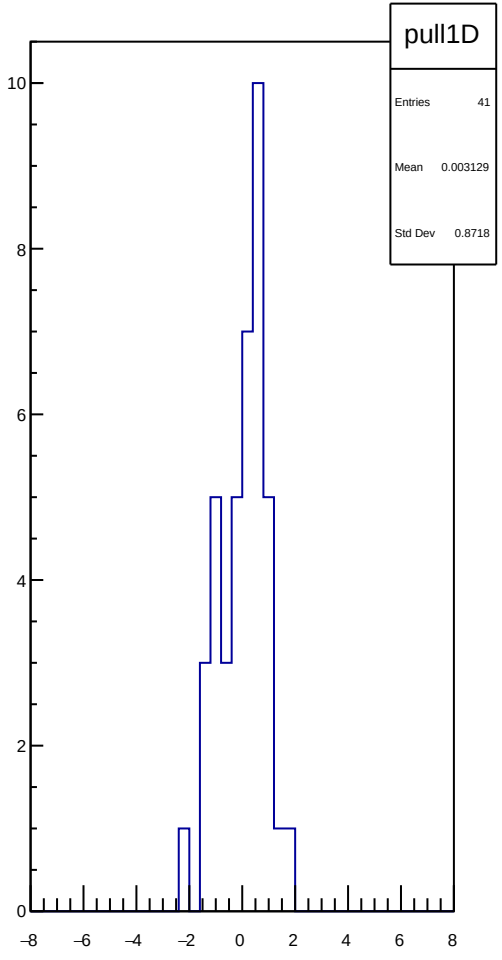

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.34 / 40
p0 46.93 ± 3.662
pull
Entries 41
Mean −2.189e+04
Std Dev 0

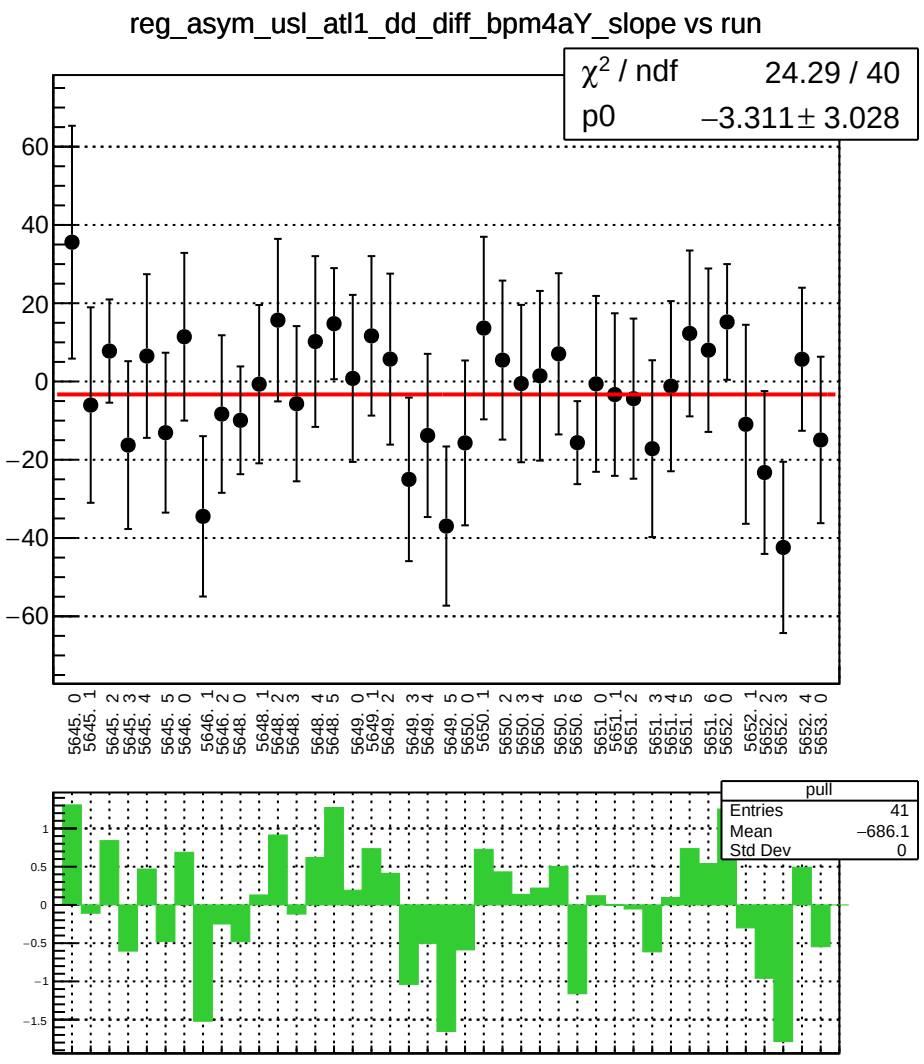

pull1D
Entries 41
Mean −0.0001921
Std Dev 0.9152

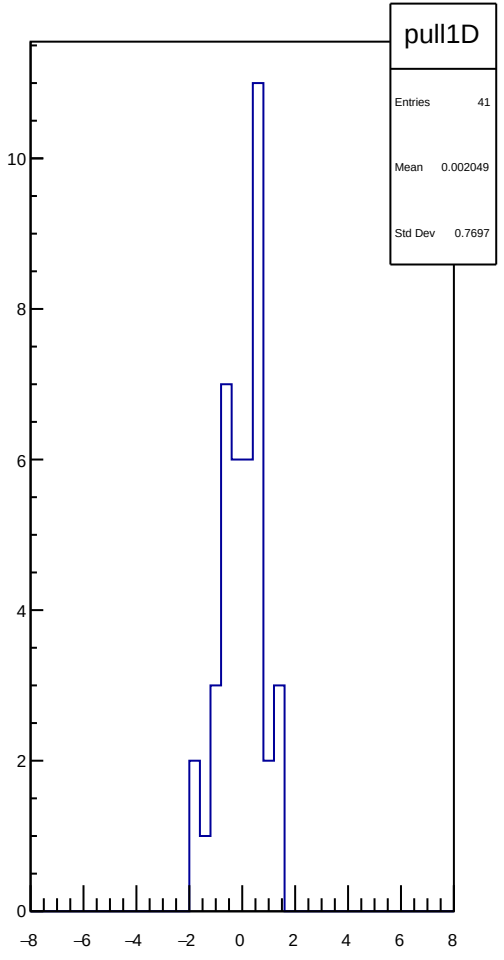

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.23 / 40
p0 −6.759 ± 4.383
pull
Entries 41
Mean 118.2
Std Dev 0
pull1D
Entries 41
Mean −0.02291
Std Dev 0.7523

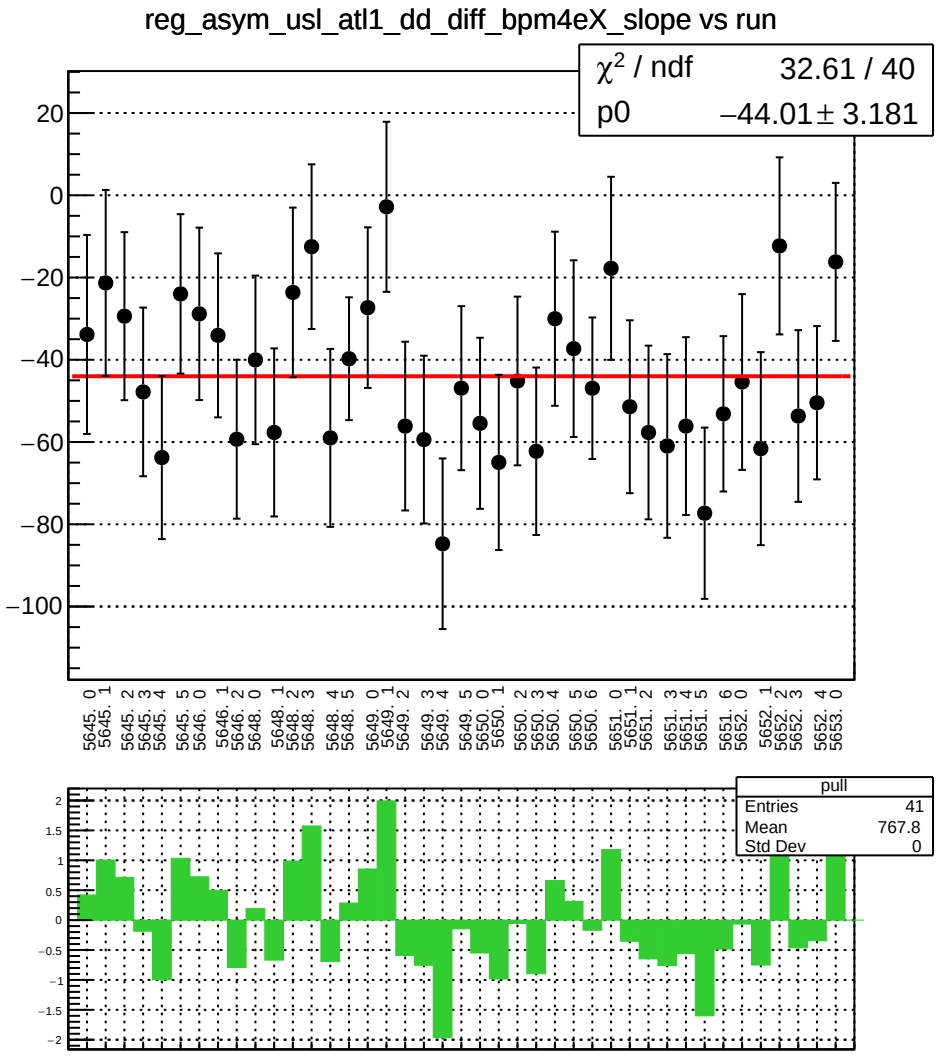

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 133.1 / 40
p0 −34.56 ± 0.1492
pull
Entries 41
Mean 130.8
Std Dev 0
pull1D
Entries 41
Mean −0.04532
Std Dev 1.801

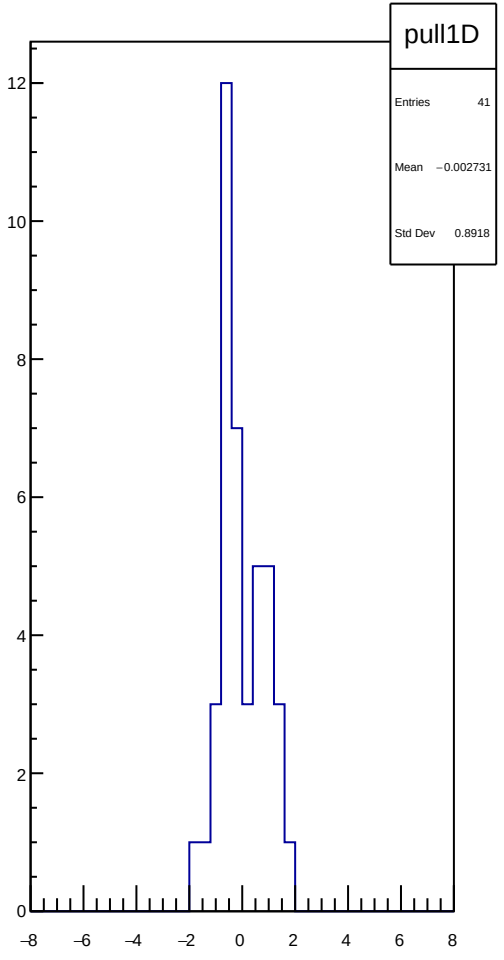

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 31.16 / 40
p0 −11.82 ± 3.683
pull
Entries 41
Mean 639
Std Dev 0

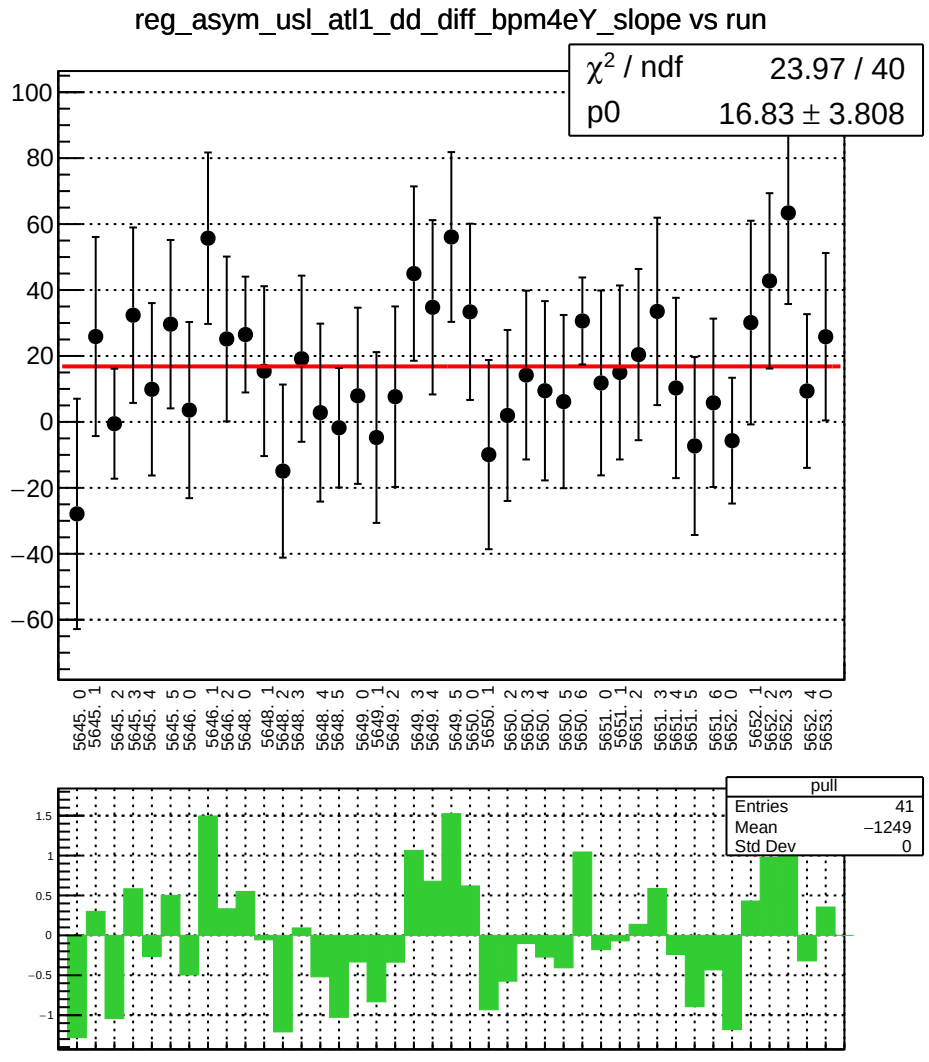

pull1D
Entries 41
Mean 0.003129
Std Dev 0.8718

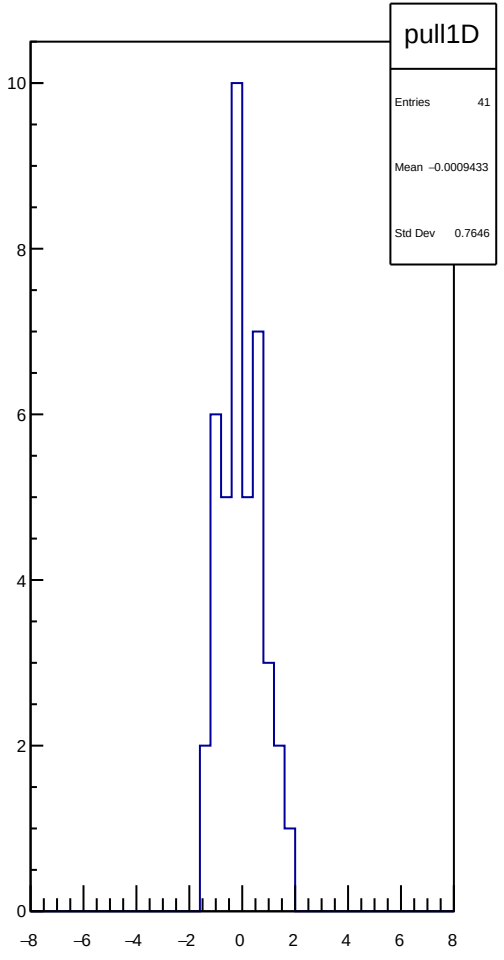

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.29 / 40
p0 −3.311 ± 3.028
pull
Entries 41
Mean −686.1
Std Dev 0

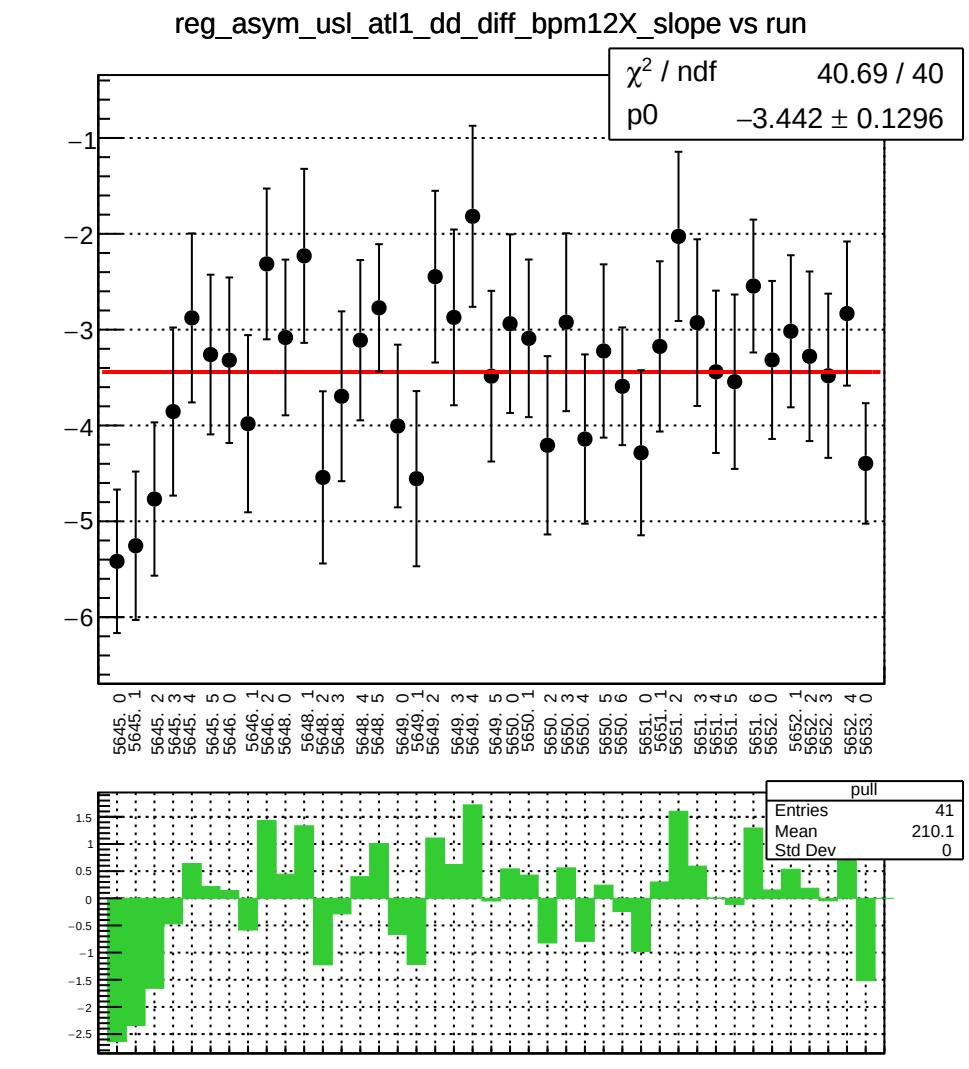

pull1D
Entries 41
Mean 0.002049
Std Dev 0.7697

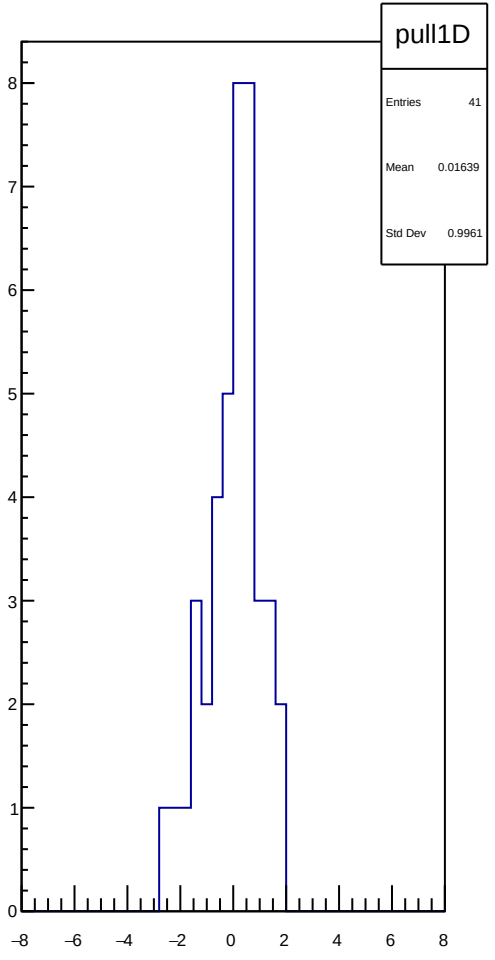

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.61 / 40
p0 −44.01 ± 3.181
pull
Entries 41
Mean 767.8
Std Dev 0

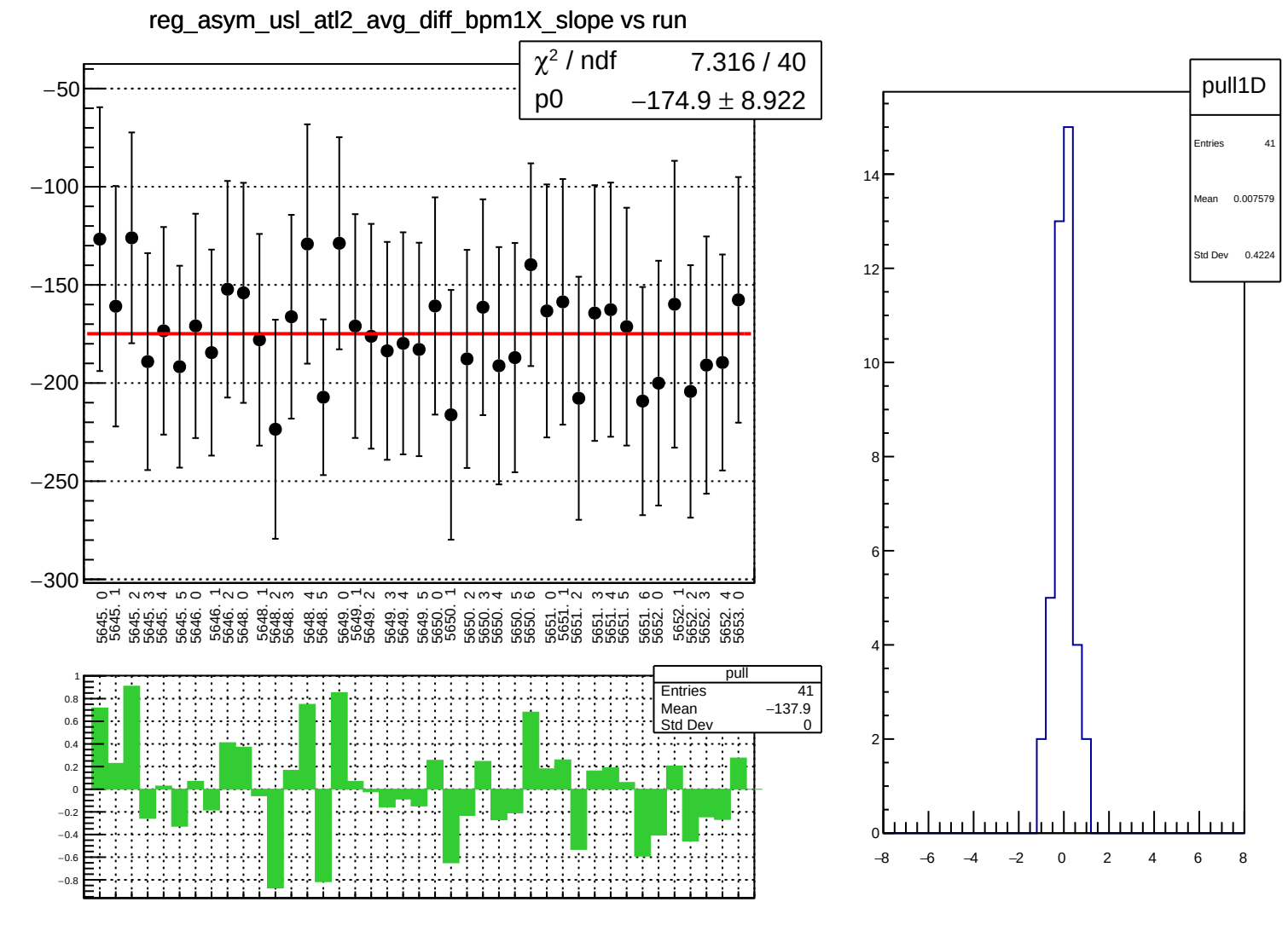

pull1D
Entries 41
Mean −0.002731
Std Dev 0.8918

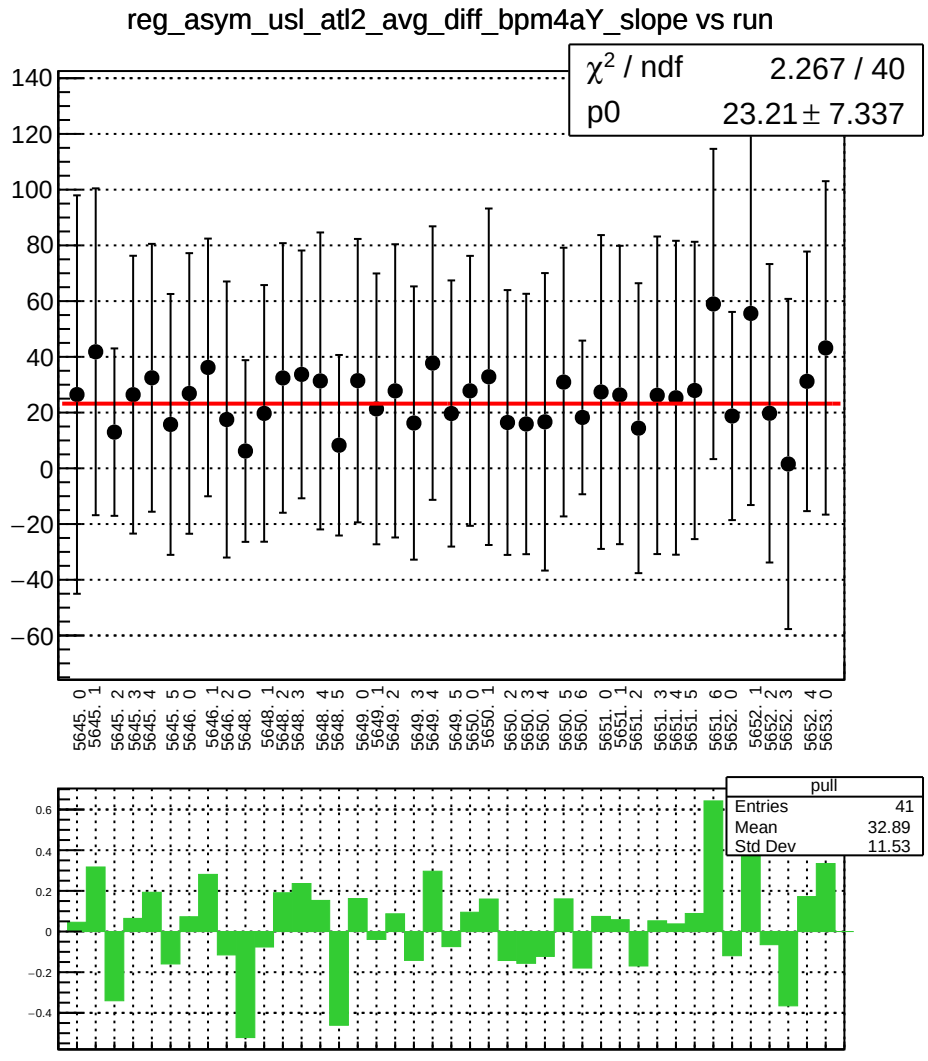

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.97 / 40
p0 16.83 ± 3.808
pull
Entries 41
Mean −1249
Std Dev 0

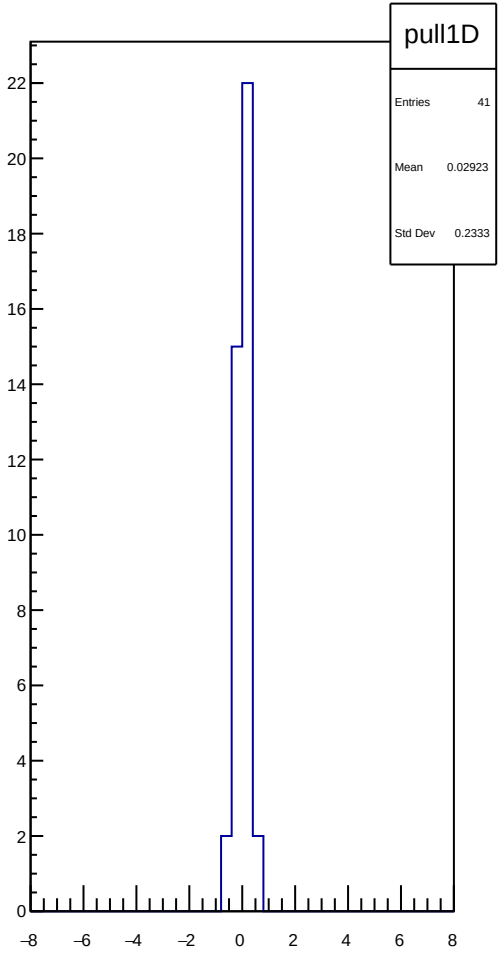

pull1D
Entries 41
Mean −0.0009433
Std Dev 0.7646

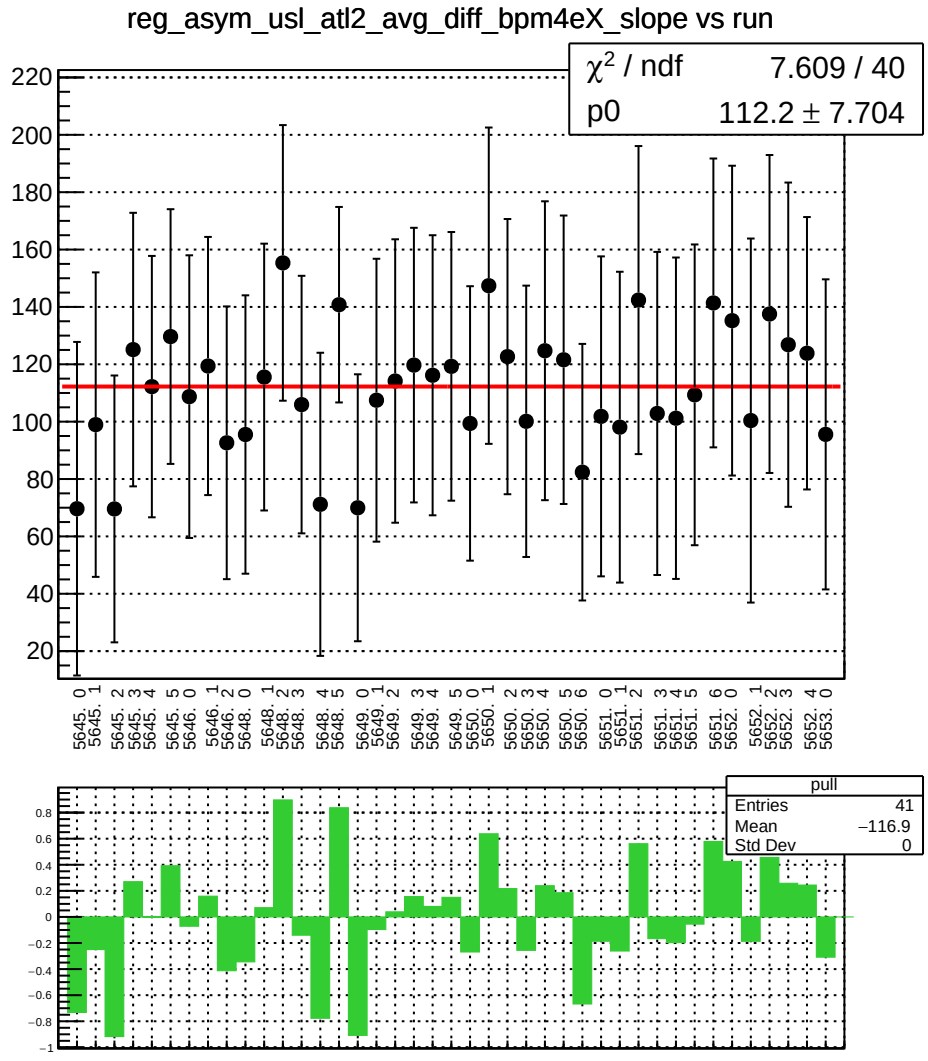

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 40.69 / 40
p0 −3.442 ± 0.1296
pull
Entries 41
Mean 210.1
Std Dev 0

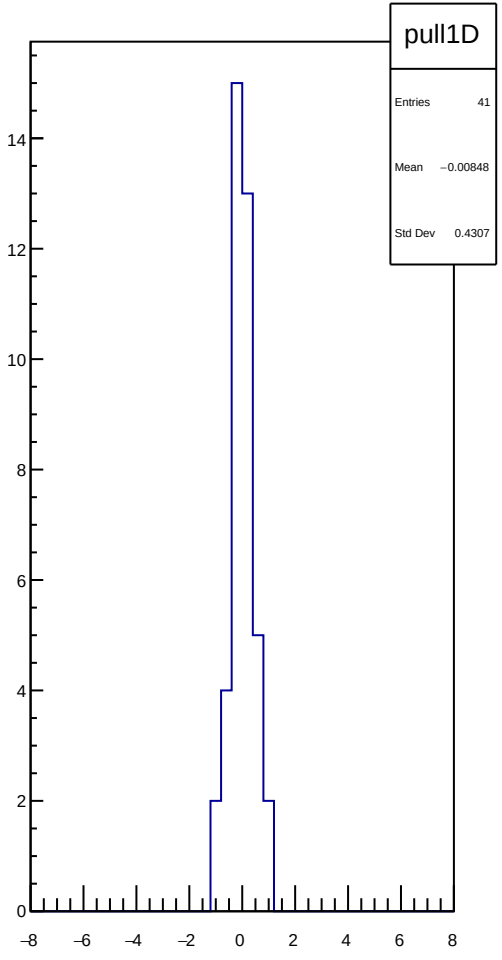

pull1D
Entries 41
Mean 0.01639
Std Dev 0.9961

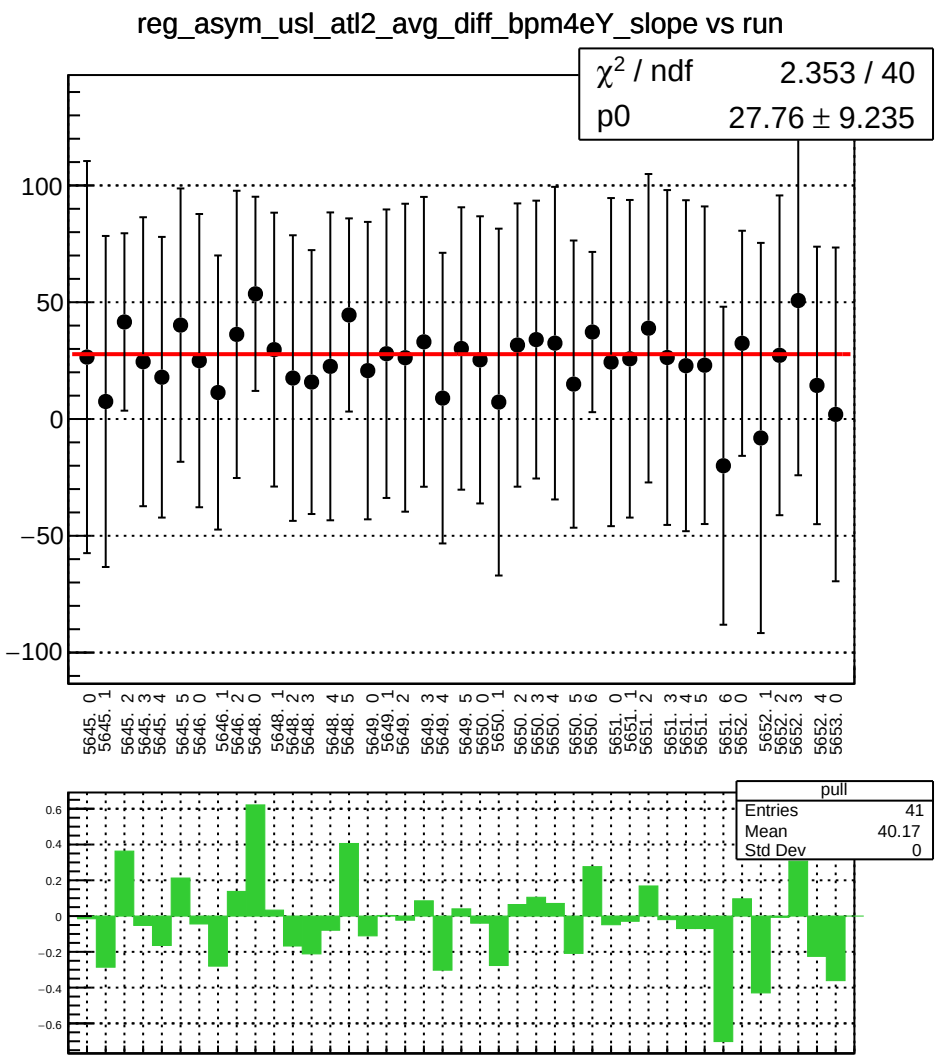

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.316 / 40
p0 −174.9 ± 8.922
pull
Entries 41
Mean −137.9
Std Dev 0
pull1D
Entries 41
Mean 0.007579
Std Dev 0.4224

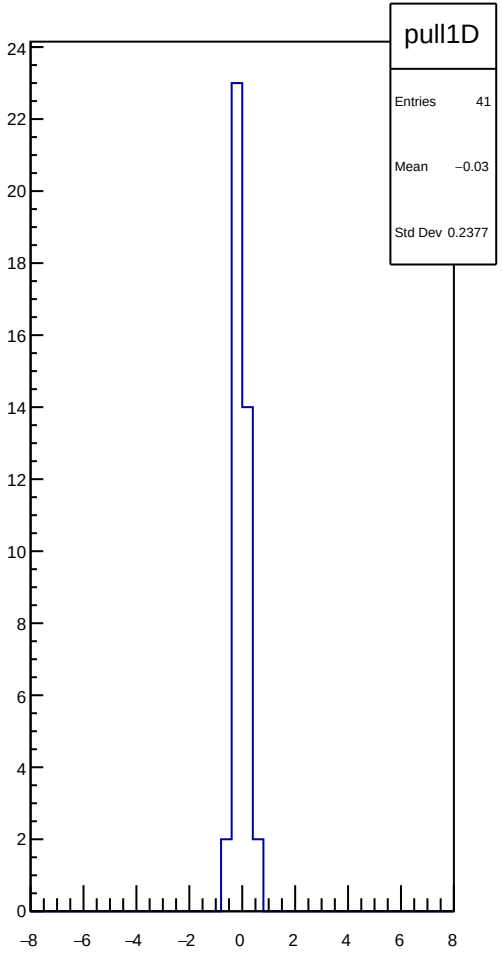

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.267 / 40
p0 23.21 ± 7.337
pull
Entries 41
Mean 32.89
Std Dev 11.53

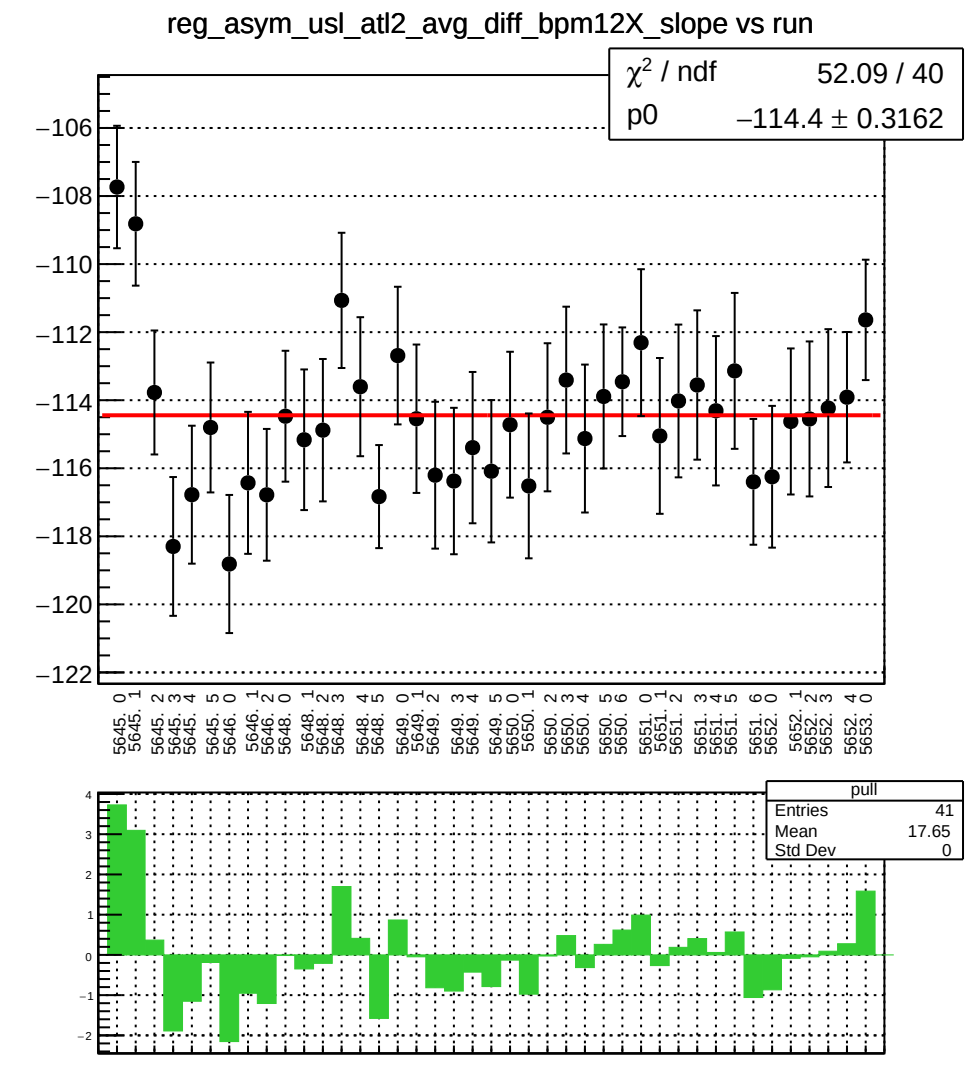

pull1D
Entries 41
Mean 0.02923
Std Dev 0.2333

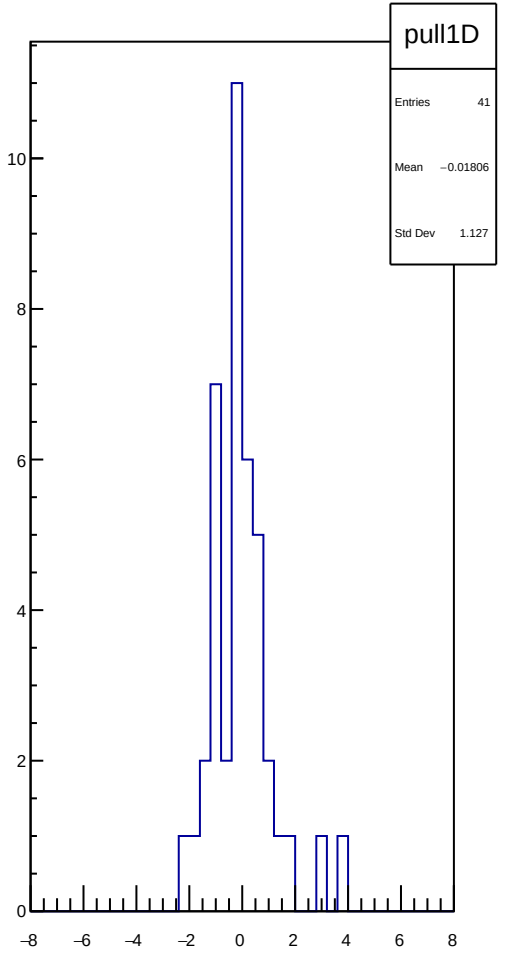

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.609 / 40
p0 112.2 ± 7.704
pull
Entries 41
Mean −116.9
Std Dev 0

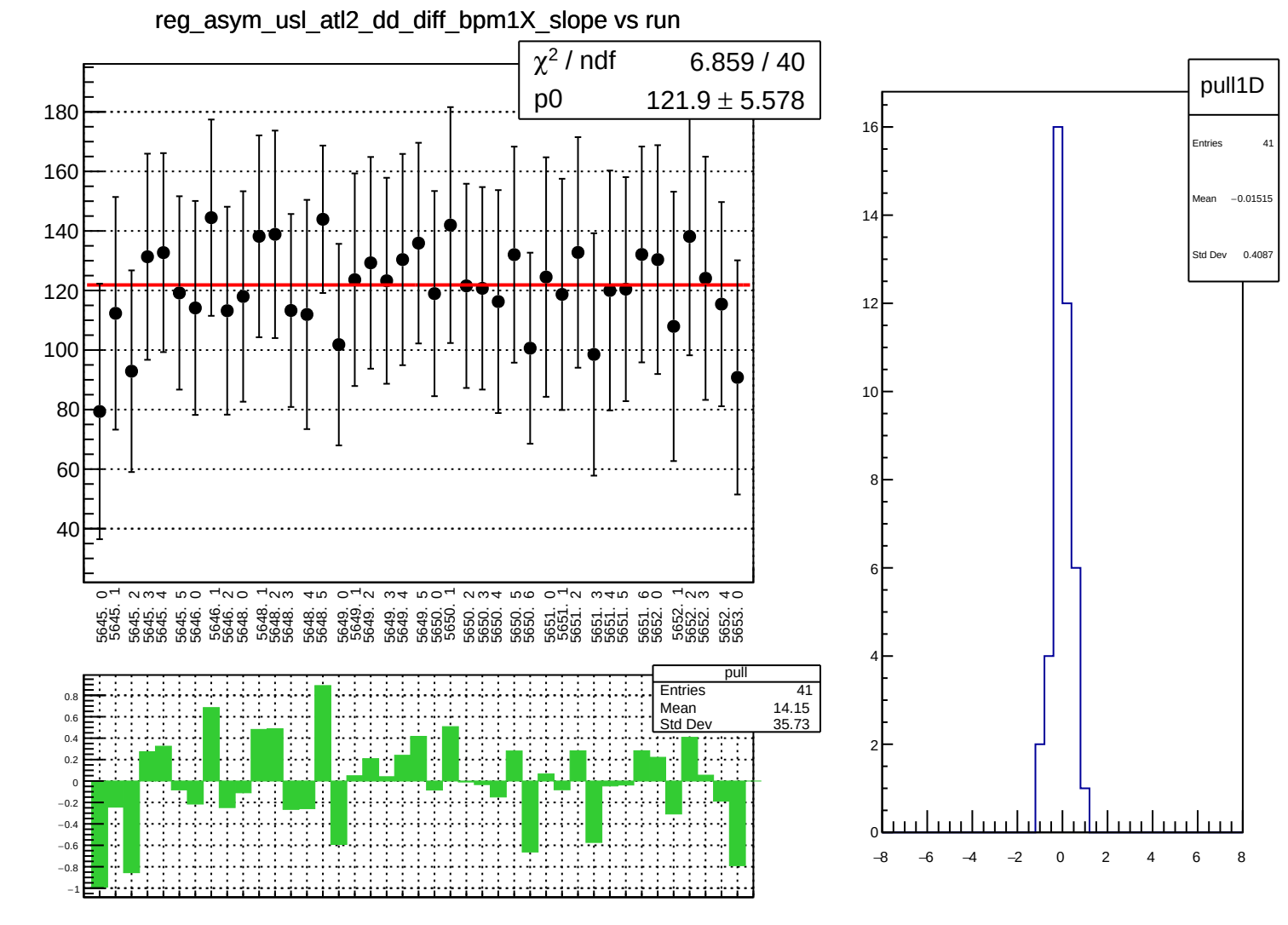

pull1D
Entries 41
Mean −0.00848
Std Dev 0.4307

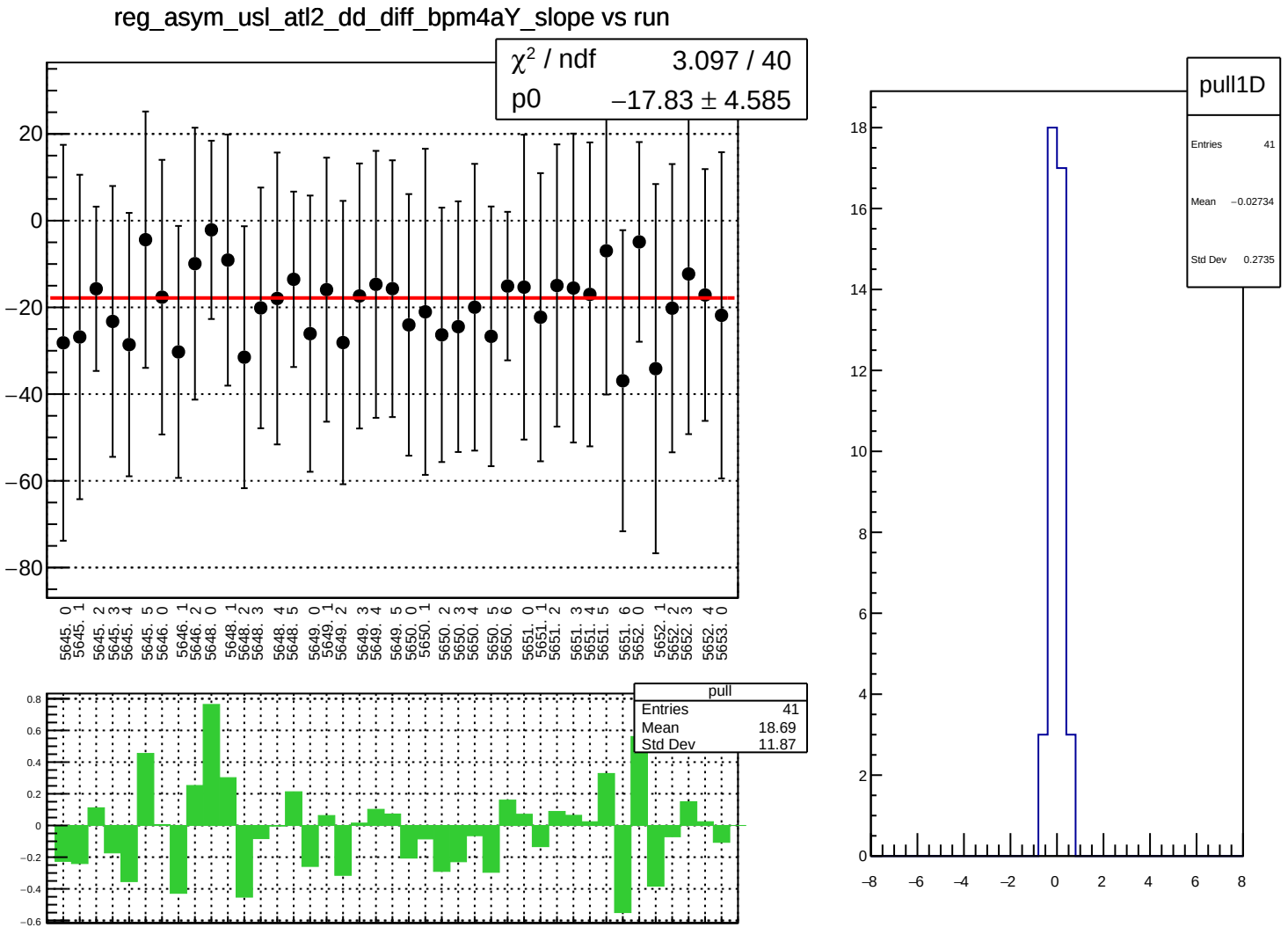

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.353 / 40
p0 27.76 ± 9.235
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.17
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

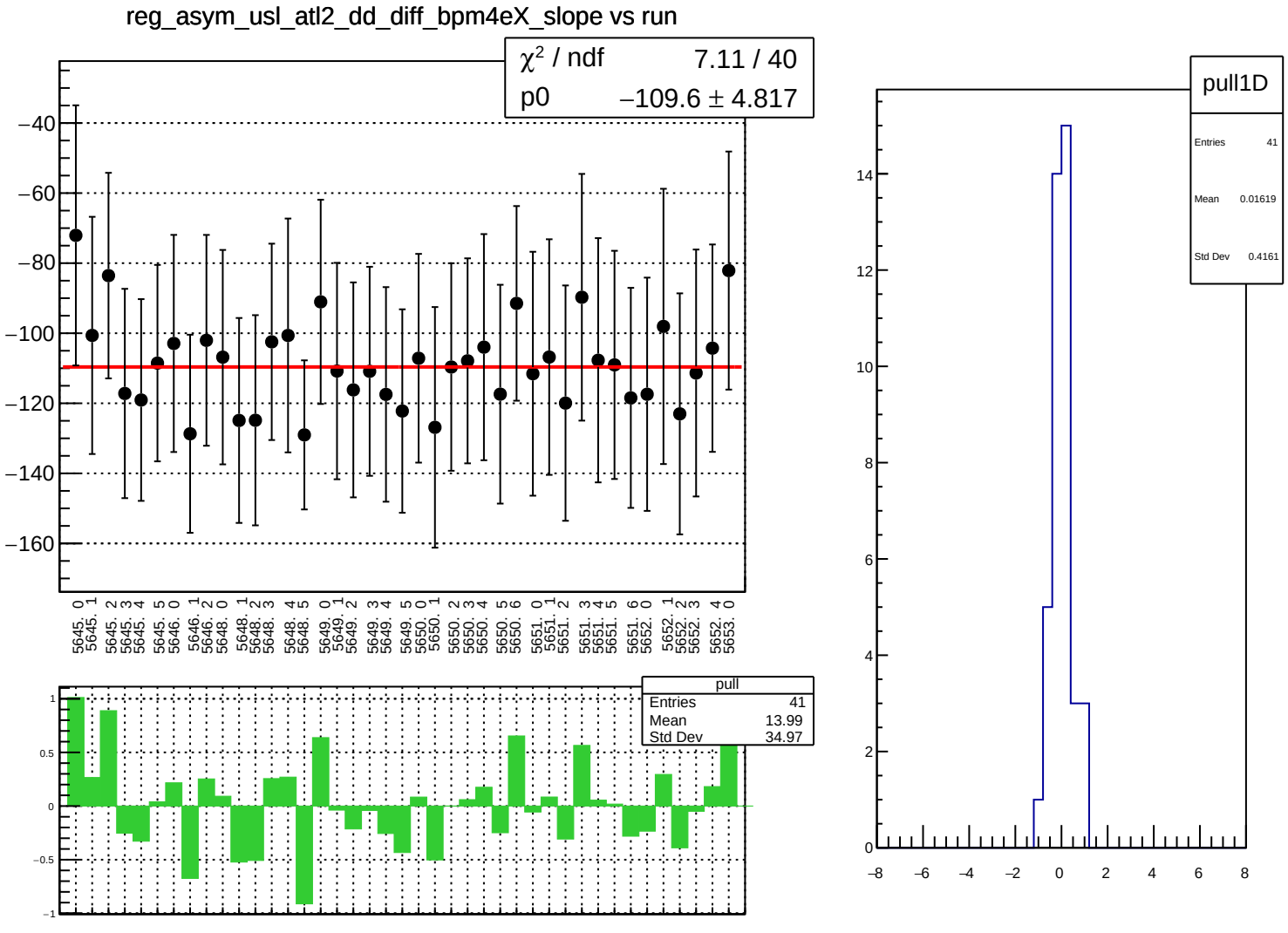

pull1D
Entries 41
Mean −0.03
Std Dev 0.2377
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

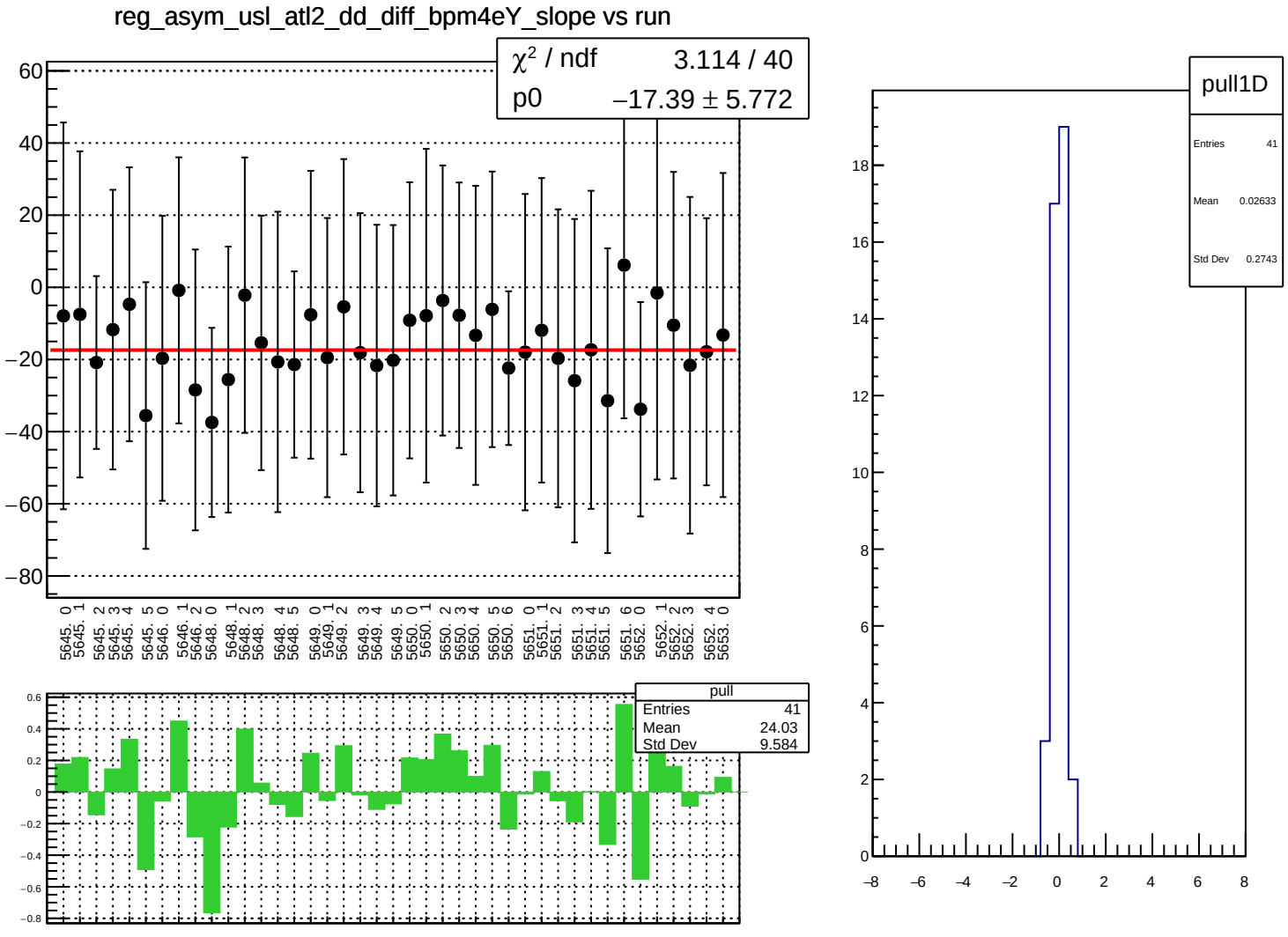

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 52.09 / 40
p0 −114.4 ± 0.3162
pull
Entries 41
Mean 17.65
Std Dev 0

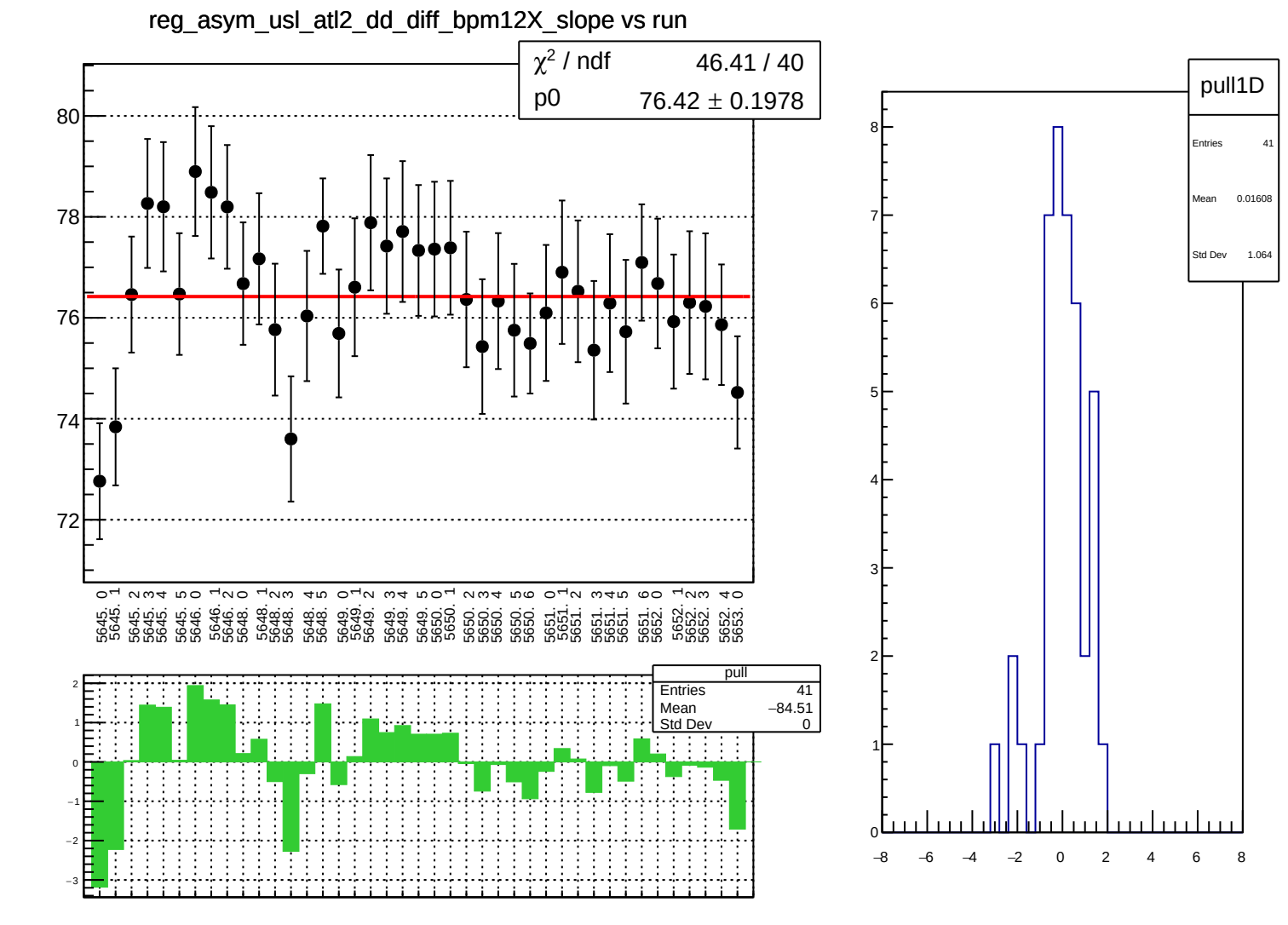

pull1D
Entries 41
Mean −0.01806
Std Dev 1.127

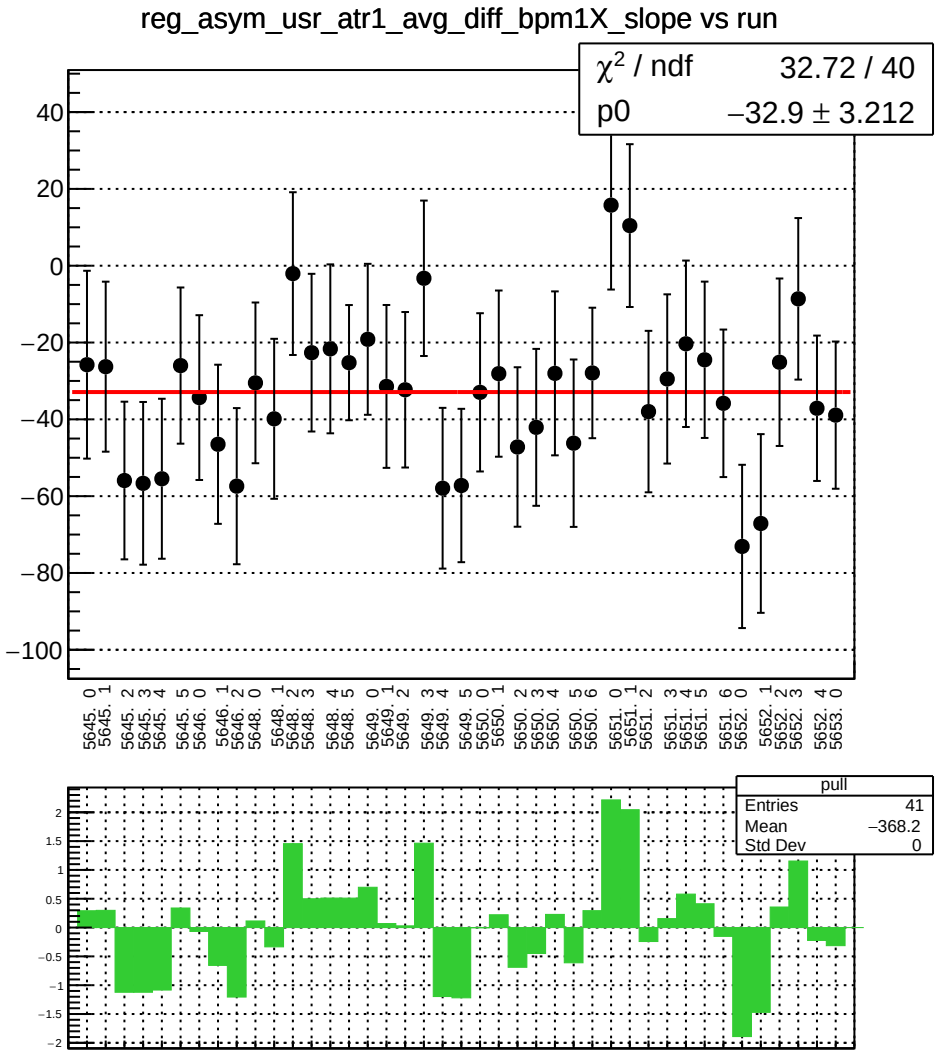

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.859 / 40
p0 121.9 ± 5.578
180
160
140
120
100
80
60
40
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 14.15
Std Dev 35.73
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 41
Mean −0.01515
Std Dev 0.4087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

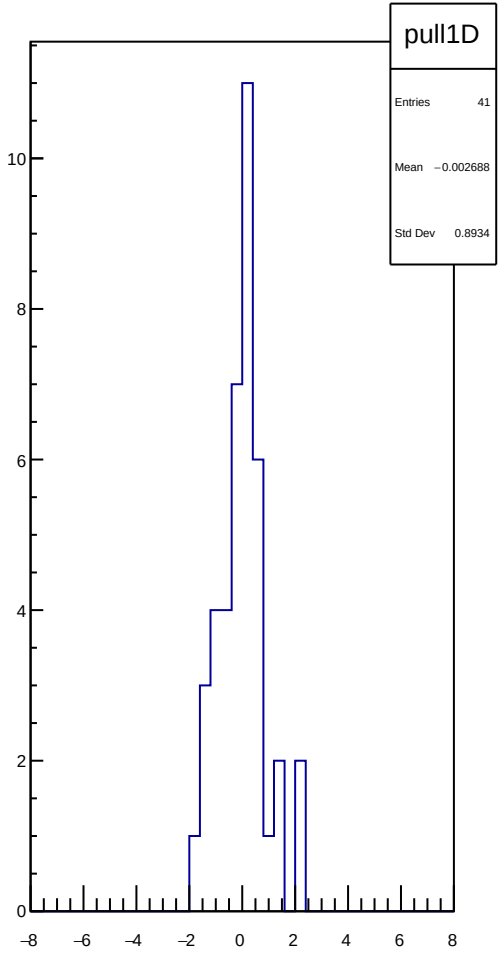

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.097 / 40
p0 −17.83 ± 4.585
pull
Entries 41
Mean 18.69
Std Dev 11.87
pull1D
Entries 41
Mean −0.02734
Std Dev 0.2735

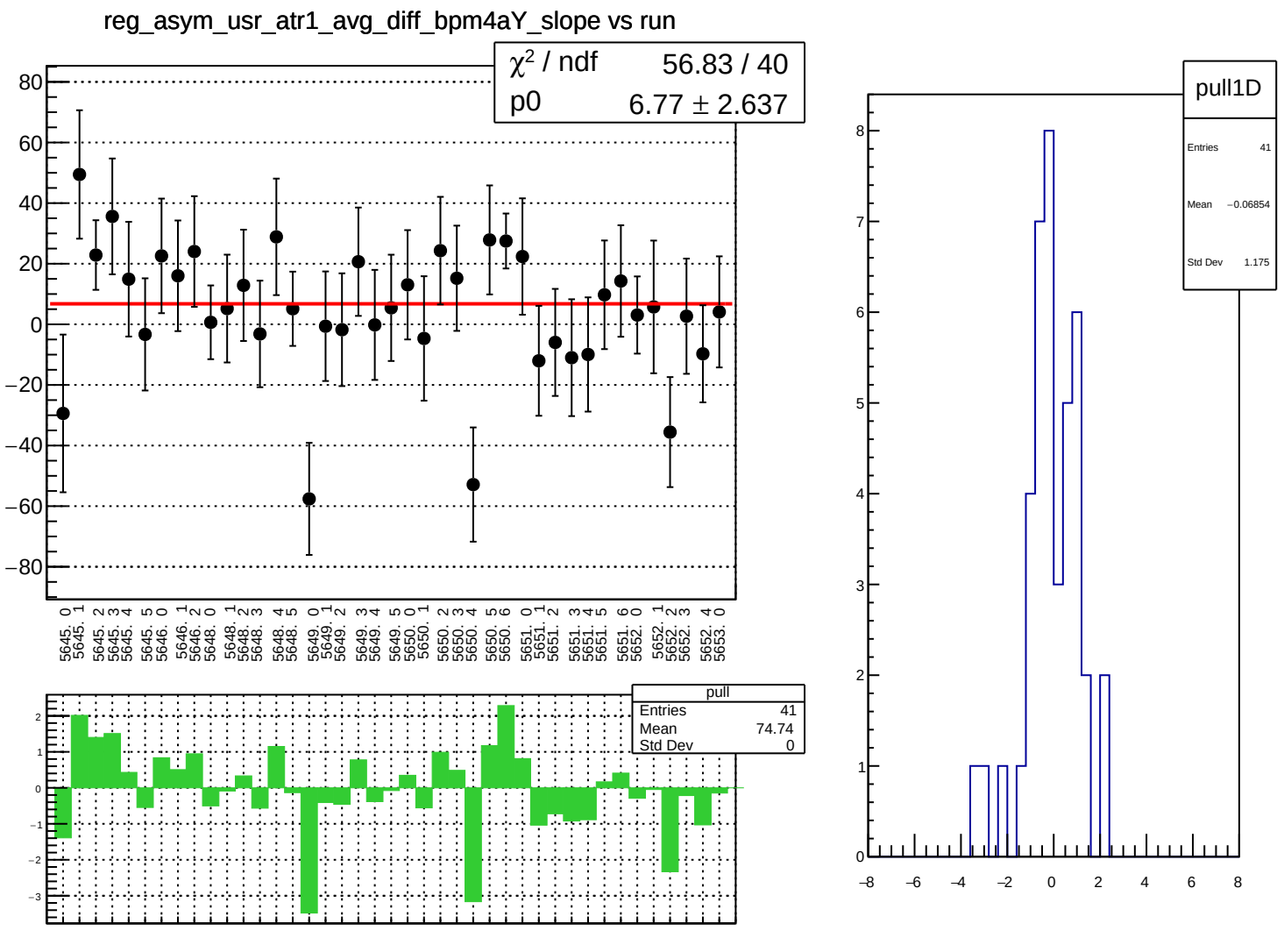

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.11 / 40
p0 −109.6 ± 4.817
−40
−60
−80
−100
−120
−140
−160
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.99
Std Dev 34.97
1
0.5
0
−0.5
−1
pull1D
Entries 41
Mean 0.01619
Std Dev 0.4161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

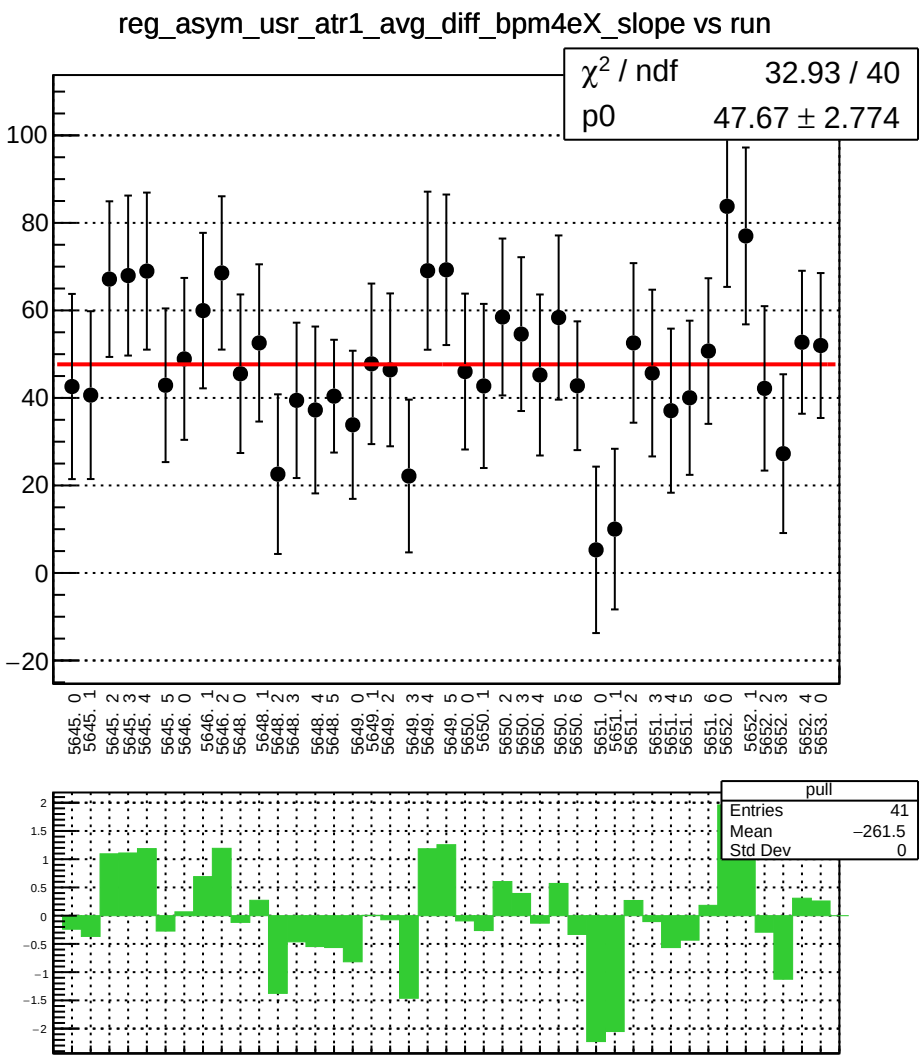

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.114 / 40
p0 −17.39 ± 5.772
pull
Entries 41
Mean 24.03
Std Dev 9.584
pull1D
Entries 41
Mean 0.02633
Std Dev 0.2743

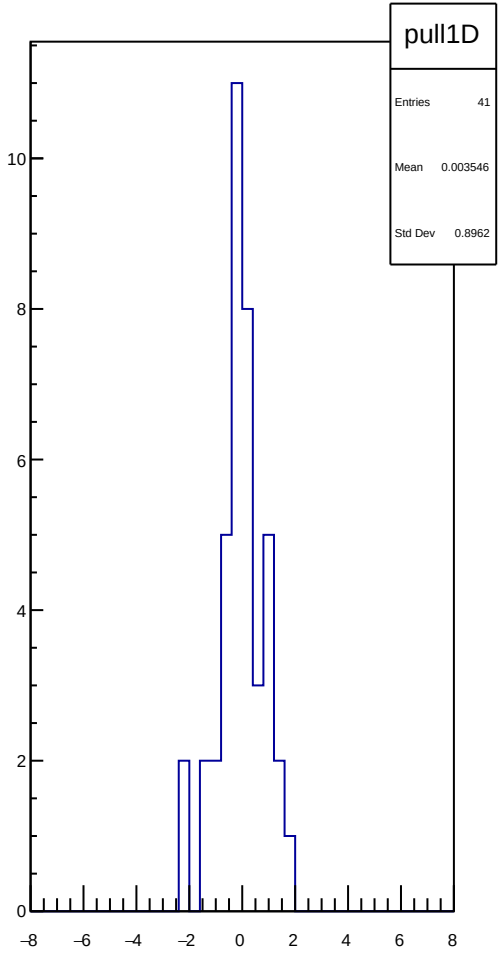

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.41 / 40
p0 76.42 ± 0.1978
80
78
76
74
72
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −84.51
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.01608
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

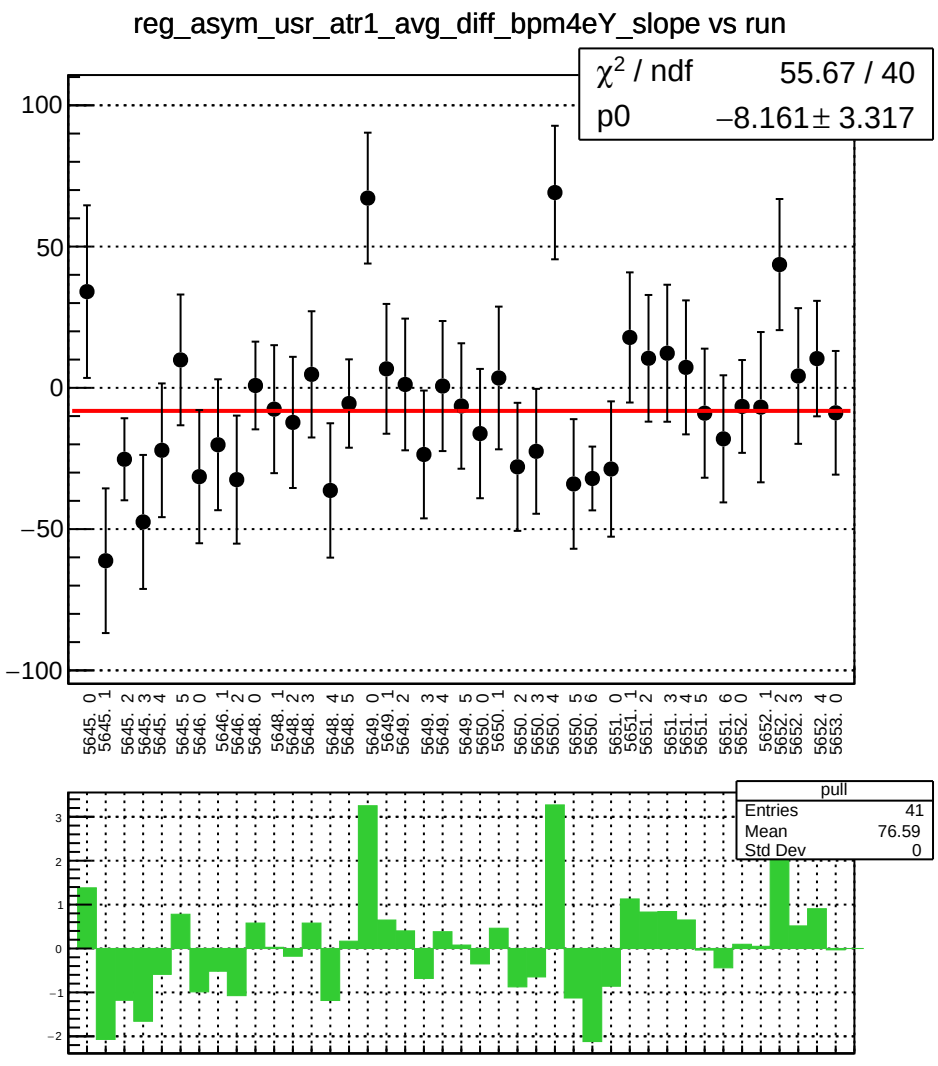

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 32.72 / 40
p0 −32.9 ± 3.212
pull
Entries 41
Mean −368.2
Std Dev 0

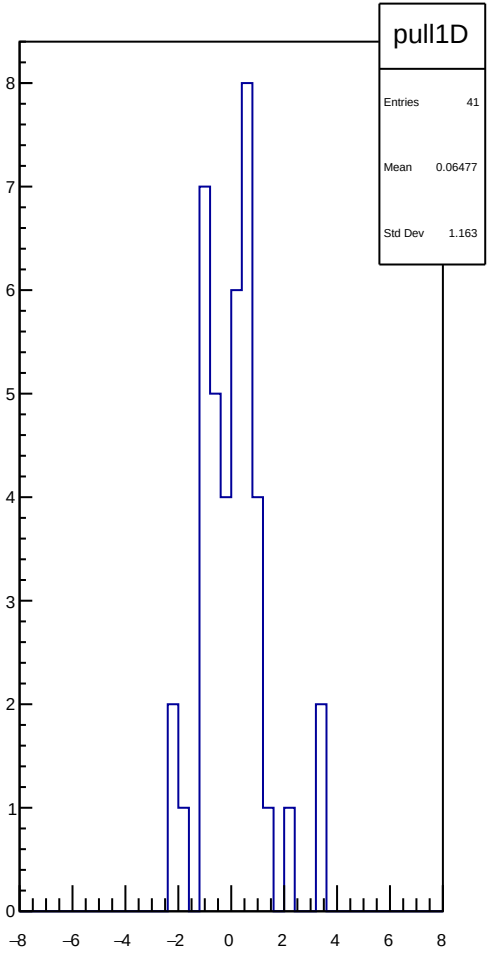

pull1D
Entries 41
Mean −0.002688
Std Dev 0.8934

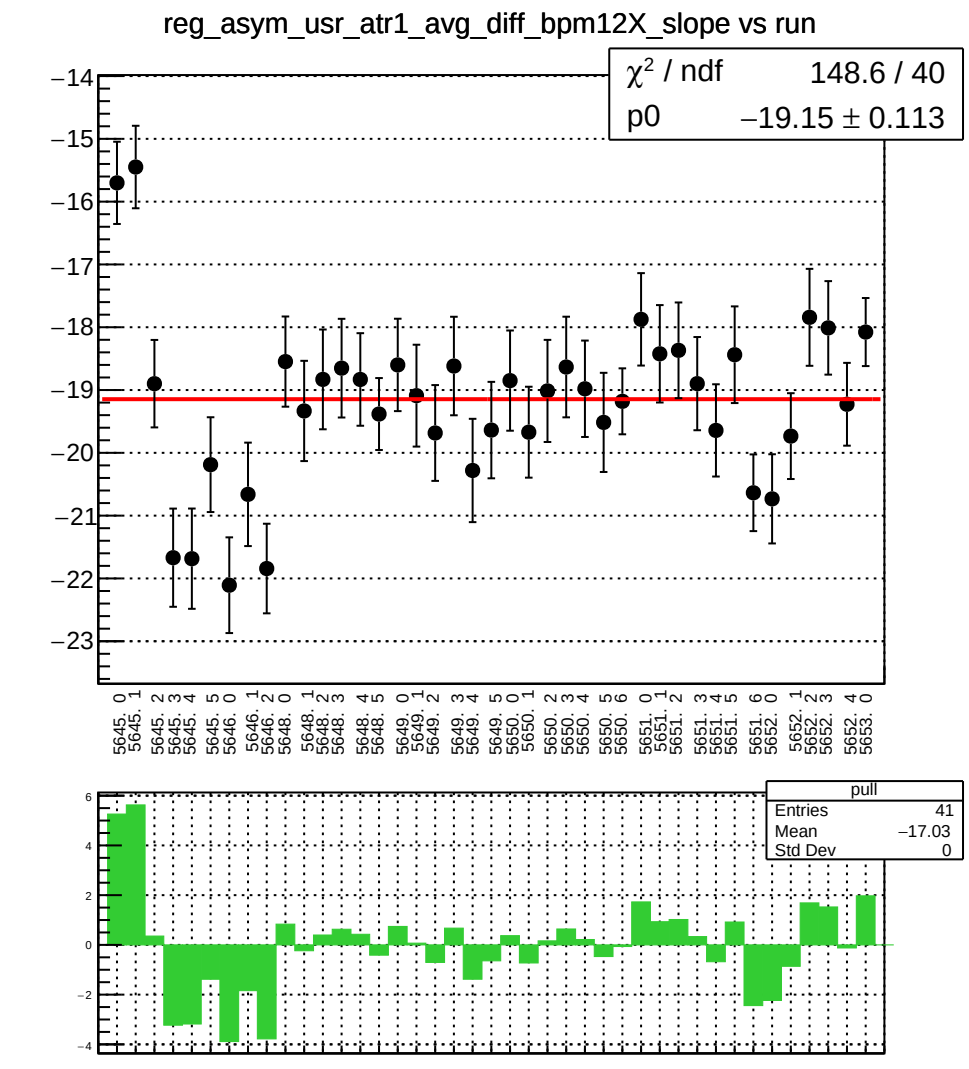

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.83 / 40
p0 6.77 ± 2.637
pull
Entries 41
Mean 74.74
Std Dev 0
pull1D
Entries 41
Mean −0.06854
Std Dev 1.175

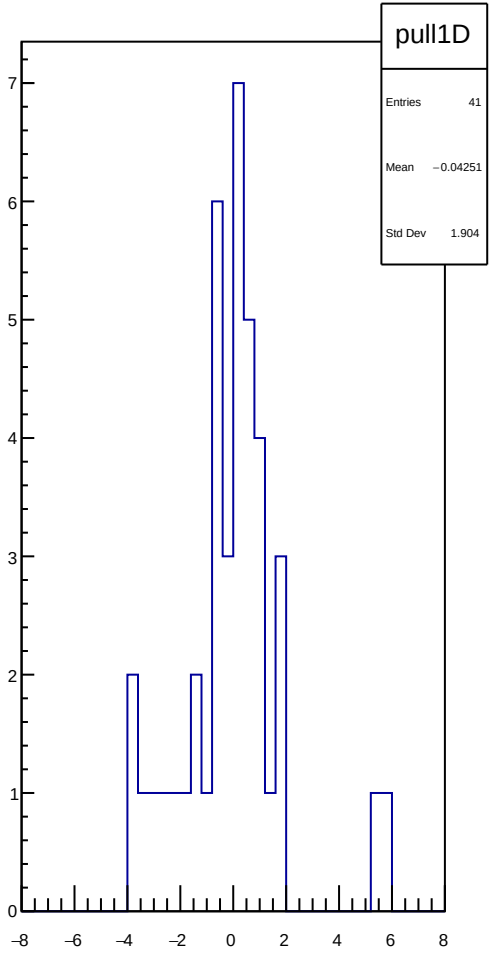

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.93 / 40
p0 47.67 ± 2.774
pull
Entries 41
Mean −261.5
Std Dev 0

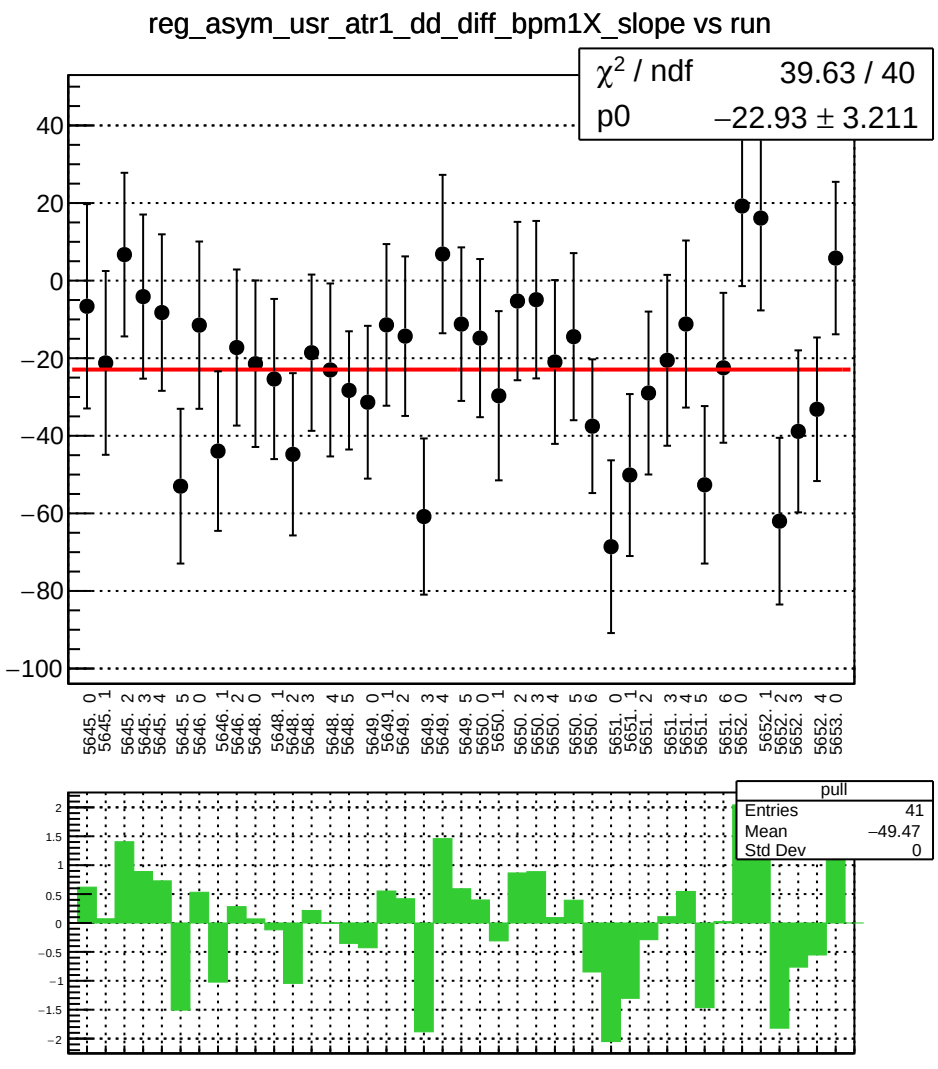

pull1D
Entries 41
Mean 0.003546
Std Dev 0.8962

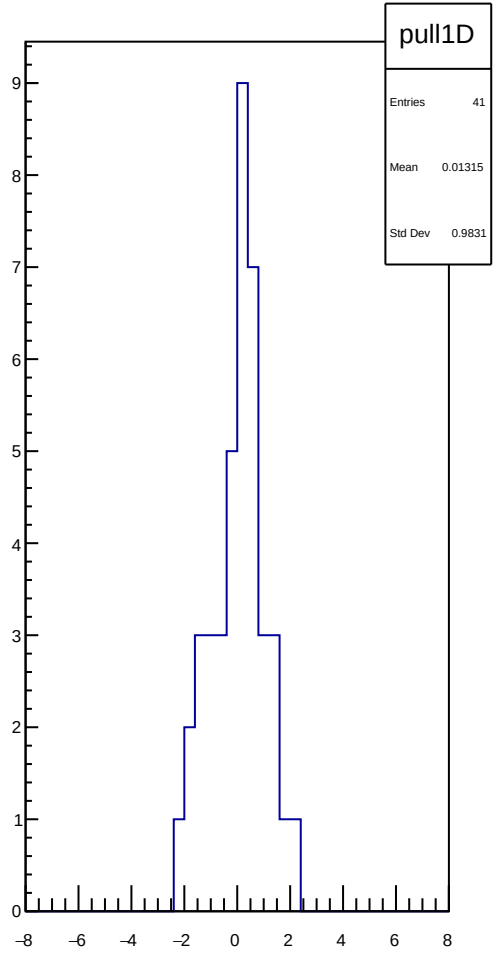

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.67 / 40
p0 −8.161 ± 3.317
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 76.59
Std Dev 0
3
2
1
0
−1
−2

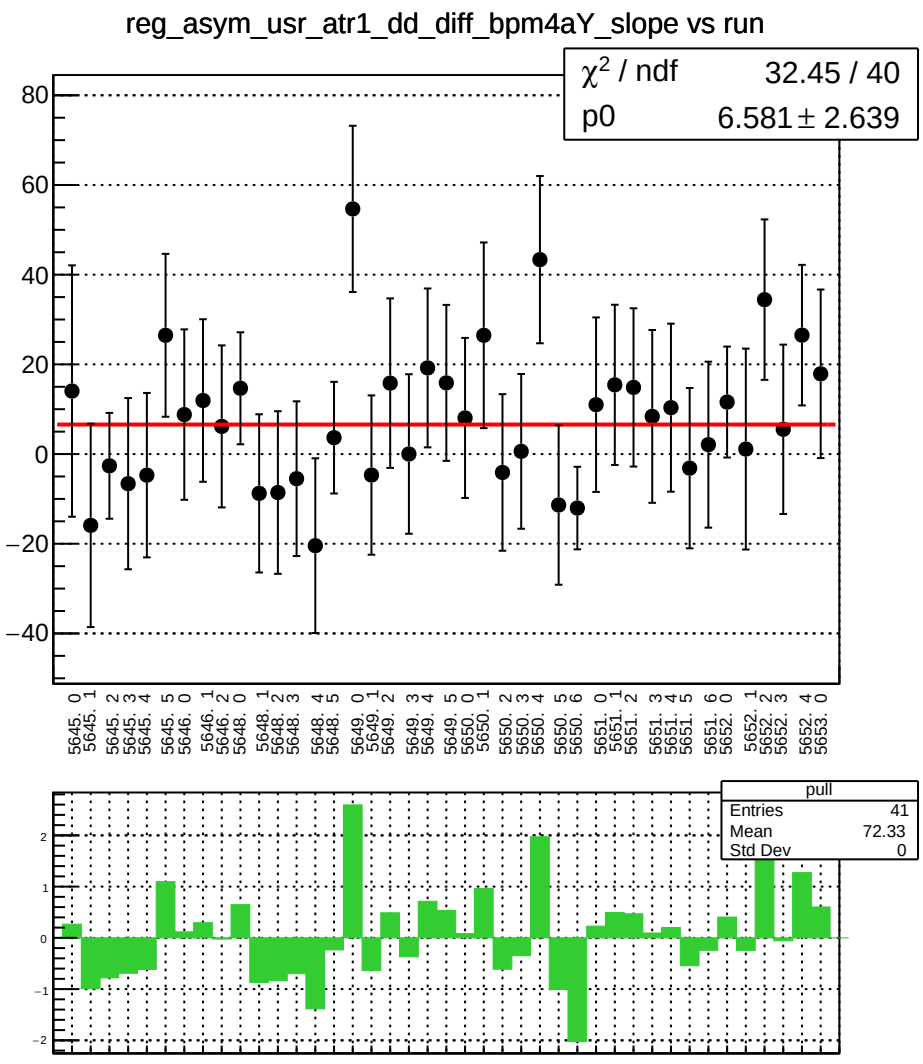

pull1D
Entries 41
Mean 0.06477
Std Dev 1.163
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

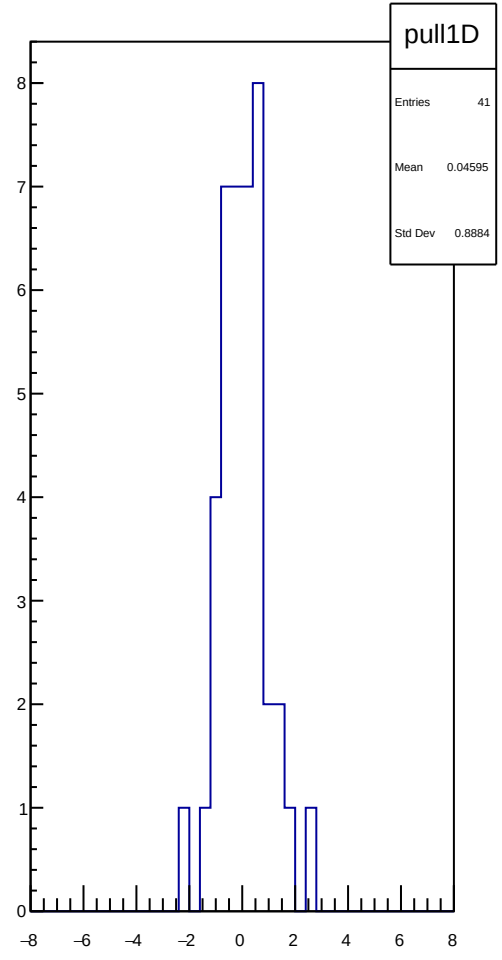

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 148.6 / 40
p0 −19.15 ± 0.113
pull
Entries 41
Mean −17.03
Std Dev 0

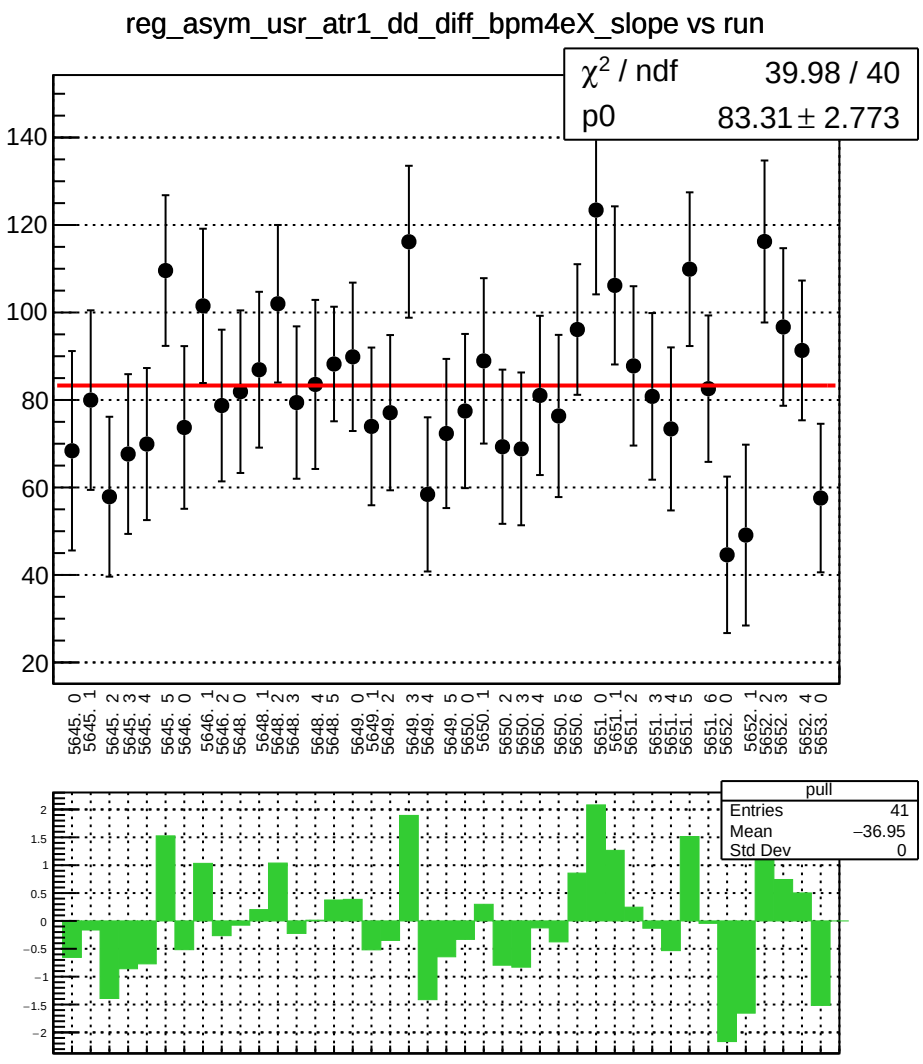

pull1D
Entries 41
Mean −0.04251
Std Dev 1.904

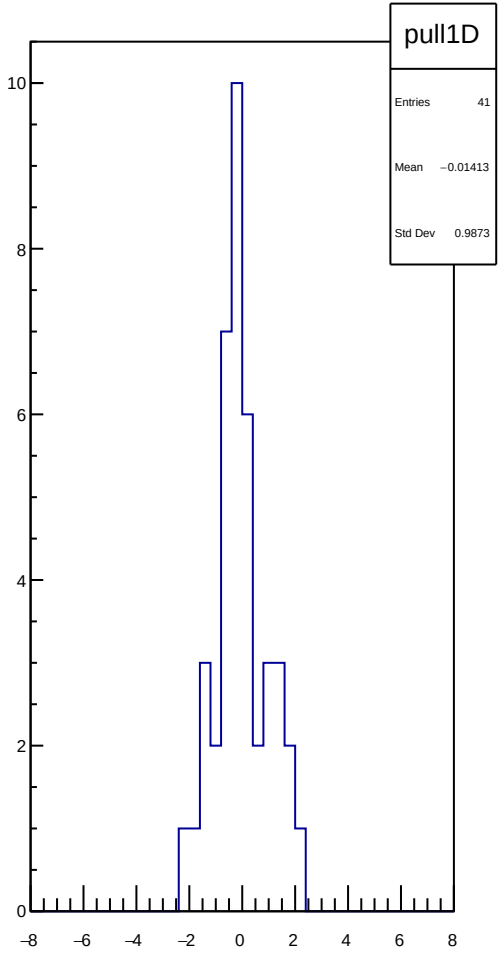

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 39.63 / 40
p0 −22.93 ± 3.211
pull
Entries 41
Mean −49.47
Std Dev 0

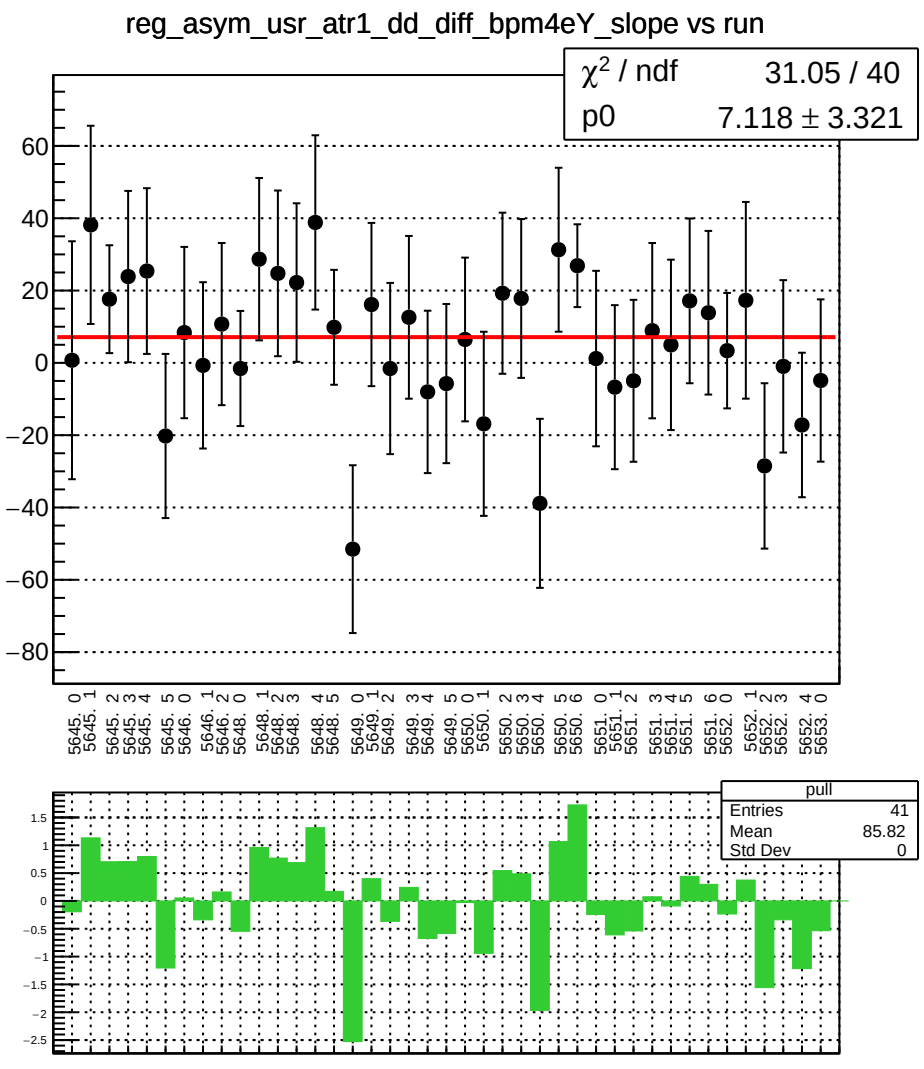

pull1D
Entries 41
Mean 0.01315
Std Dev 0.9831

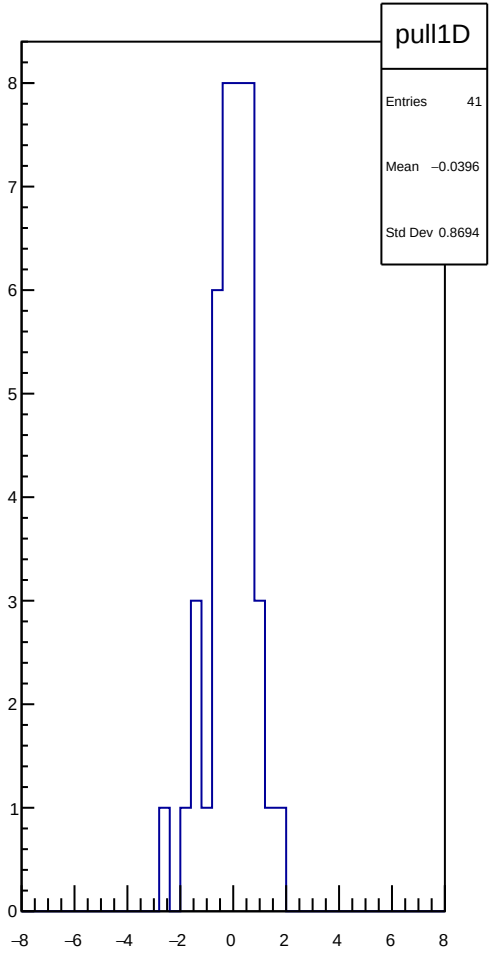

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.45 / 40
p0 6.581 ± 2.639
pull
Entries 41
Mean 72.33
Std Dev 0

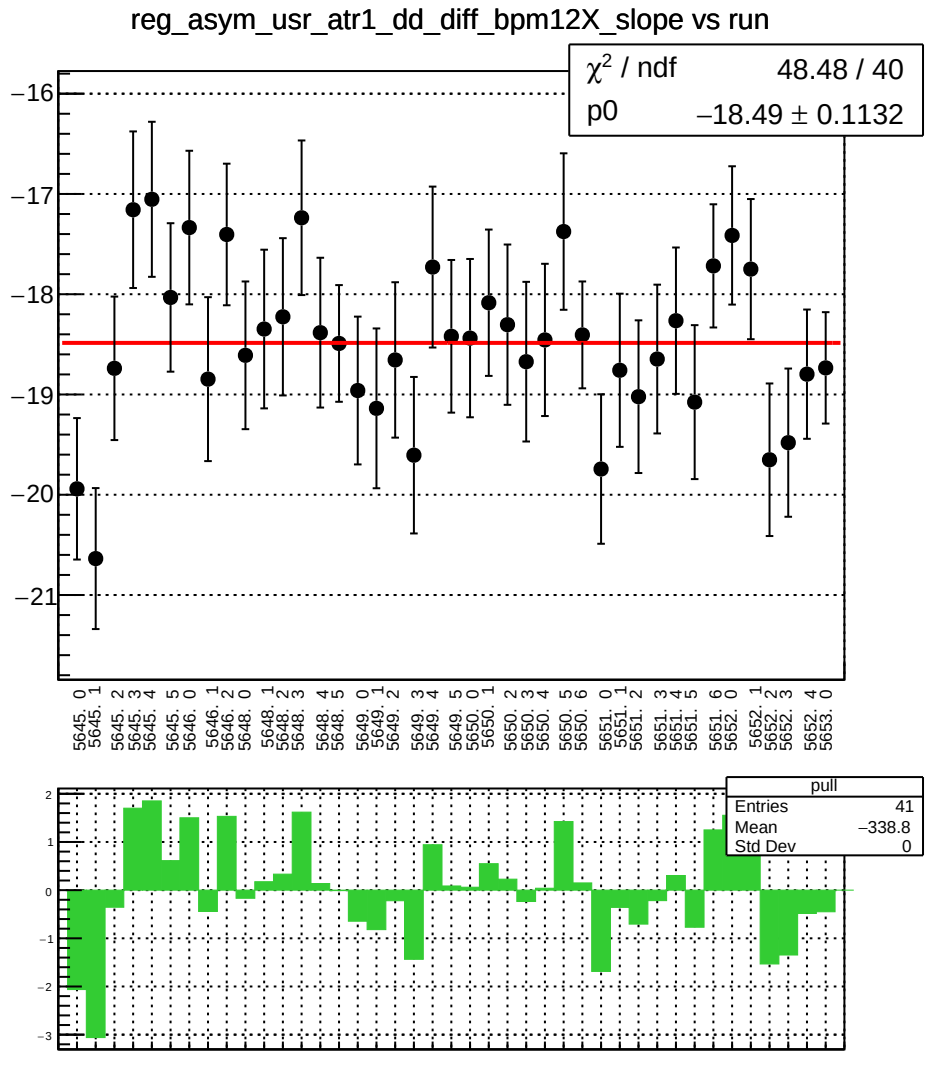

pull1D
Entries 41
Mean 0.04595
Std Dev 0.8884

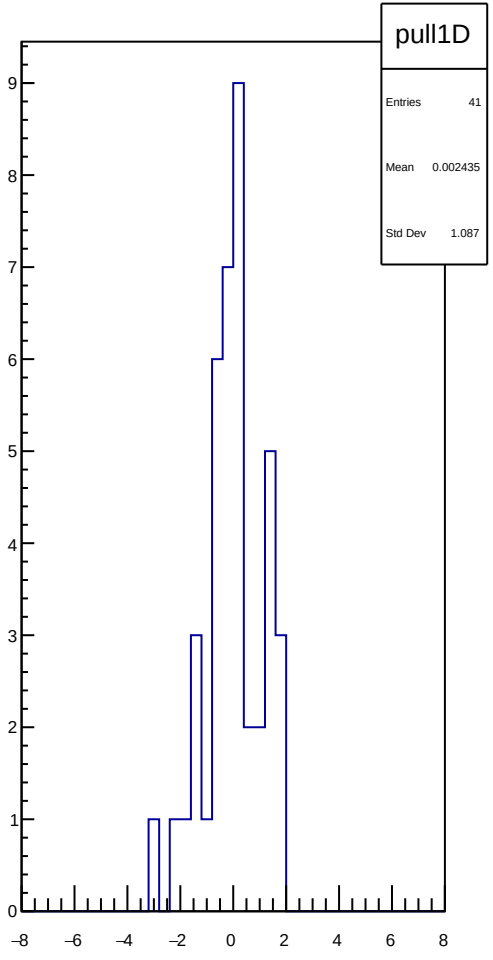

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.98 / 40
p0 83.31 ± 2.773
pull
Entries 41
Mean −36.95
Std Dev 0

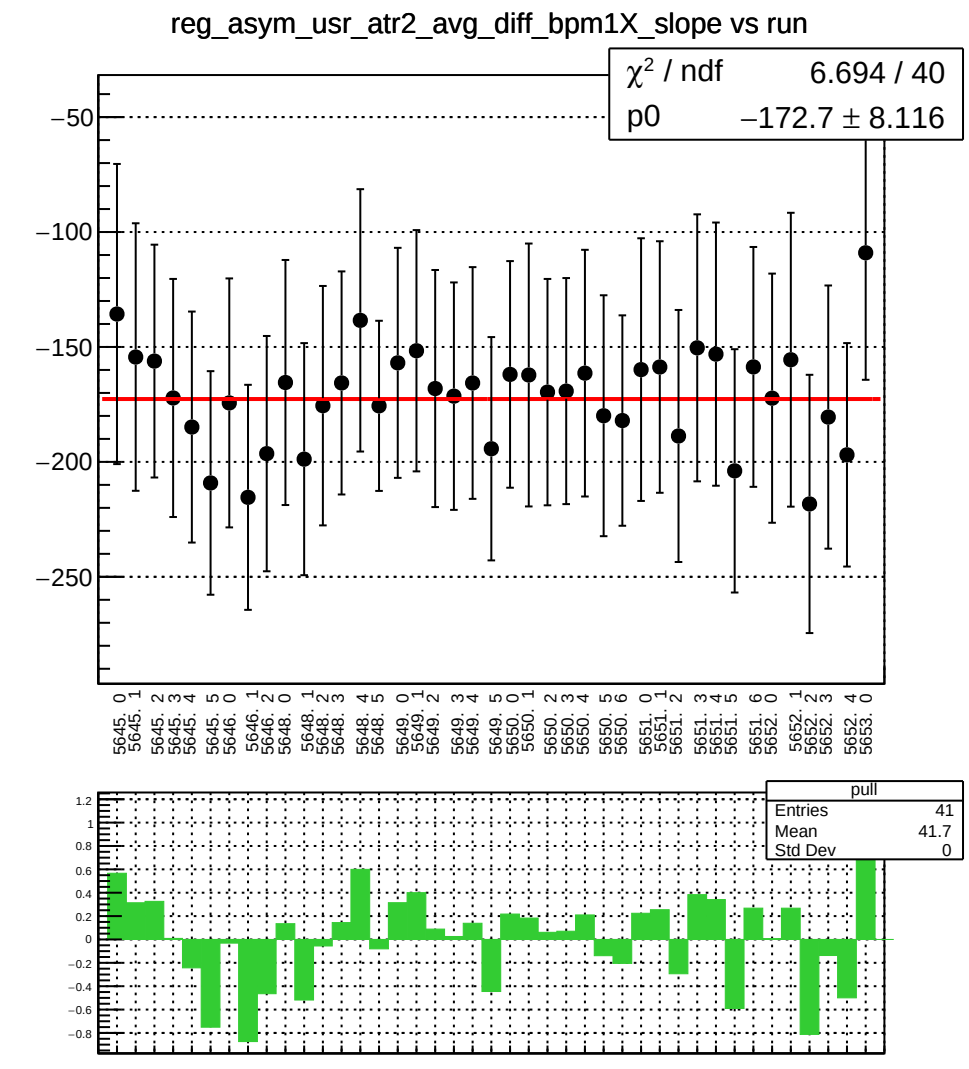

pull1D
Entries 41
Mean −0.01413
Std Dev 0.9873

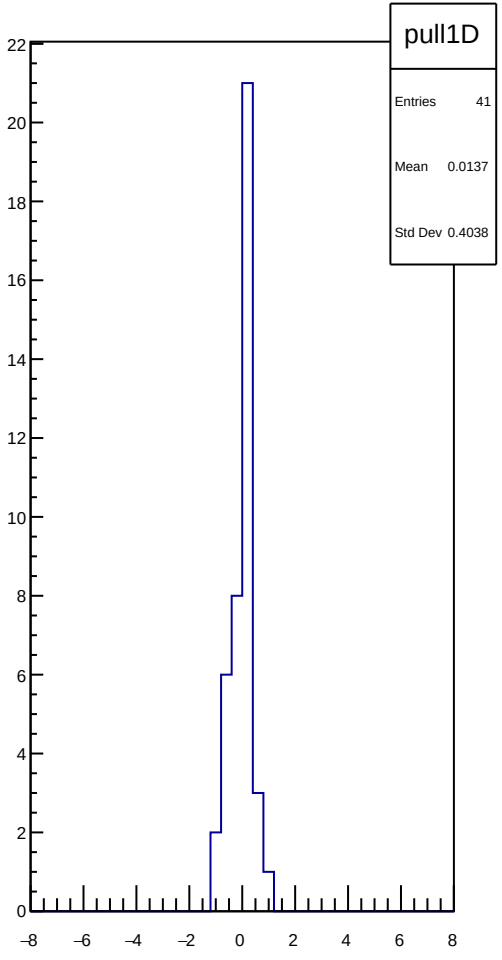

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.05 / 40
p0 7.118 ± 3.321
pull
Entries 41
Mean 85.82
Std Dev 0

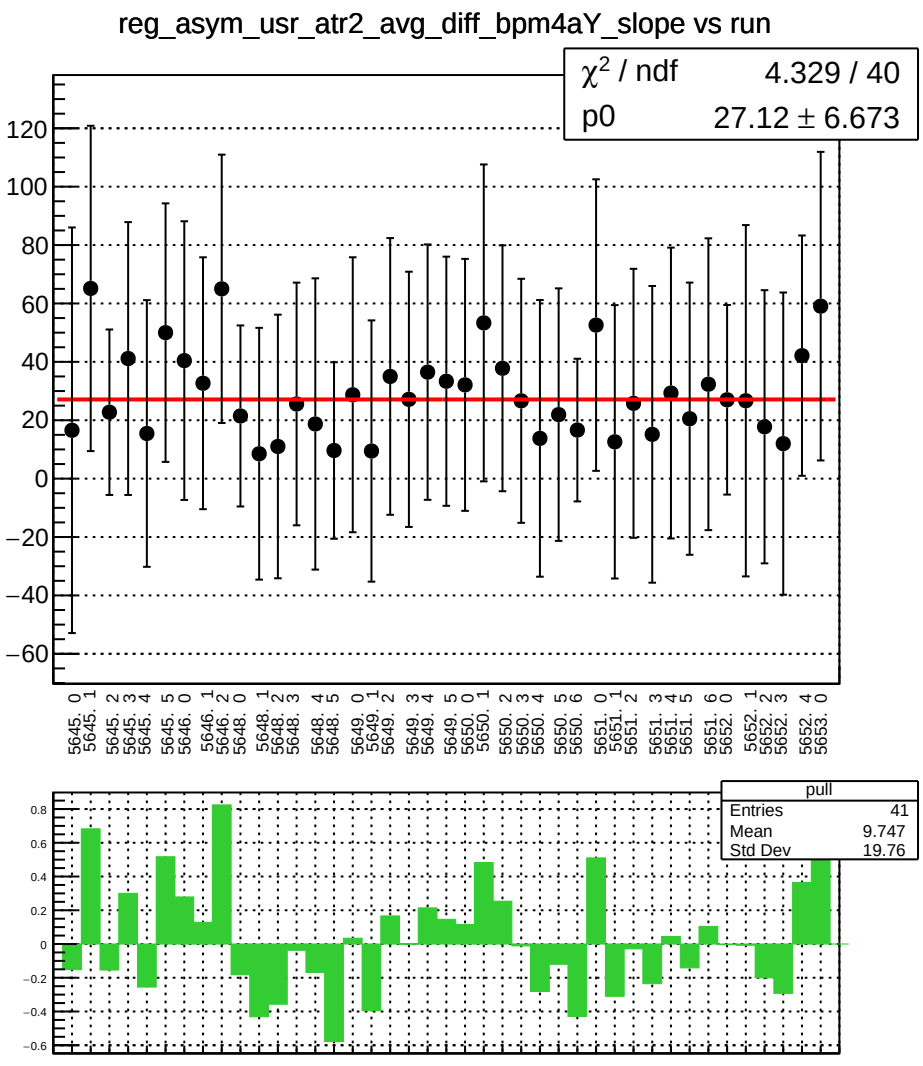

pull1D
Entries 41
Mean −0.0396
Std Dev 0.8694

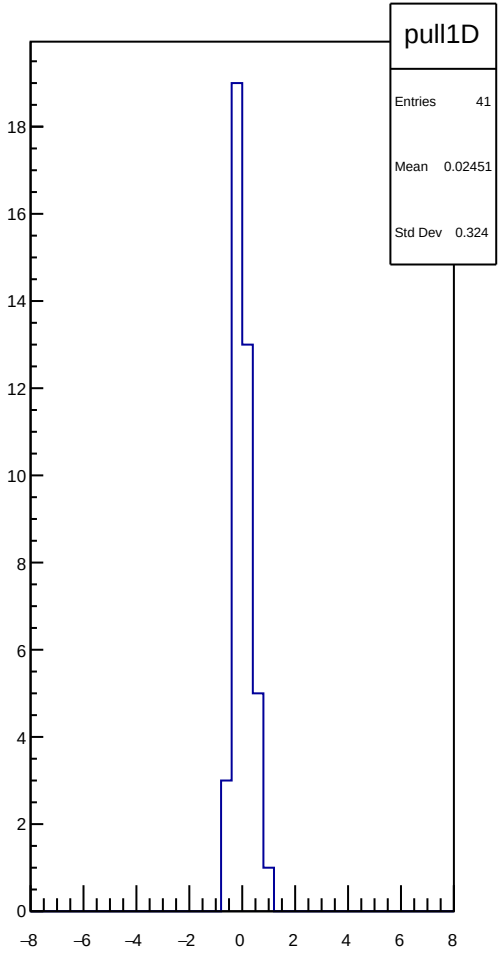

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 48.48 / 40
p0 −18.49 ± 0.1132
pull
Entries 41
Mean −338.8
Std Dev 0

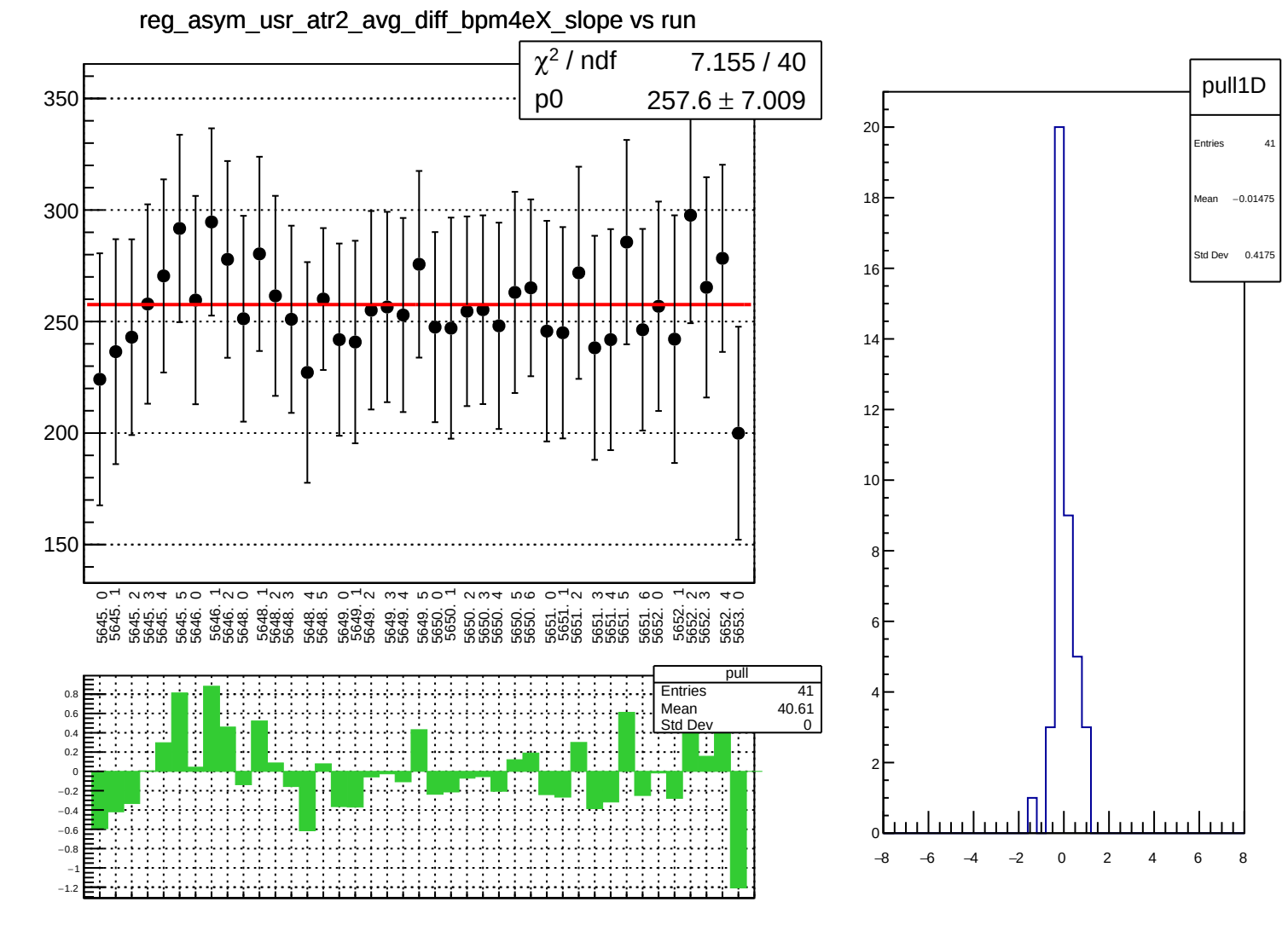

pull1D
Entries 41
Mean 0.002435
Std Dev 1.087

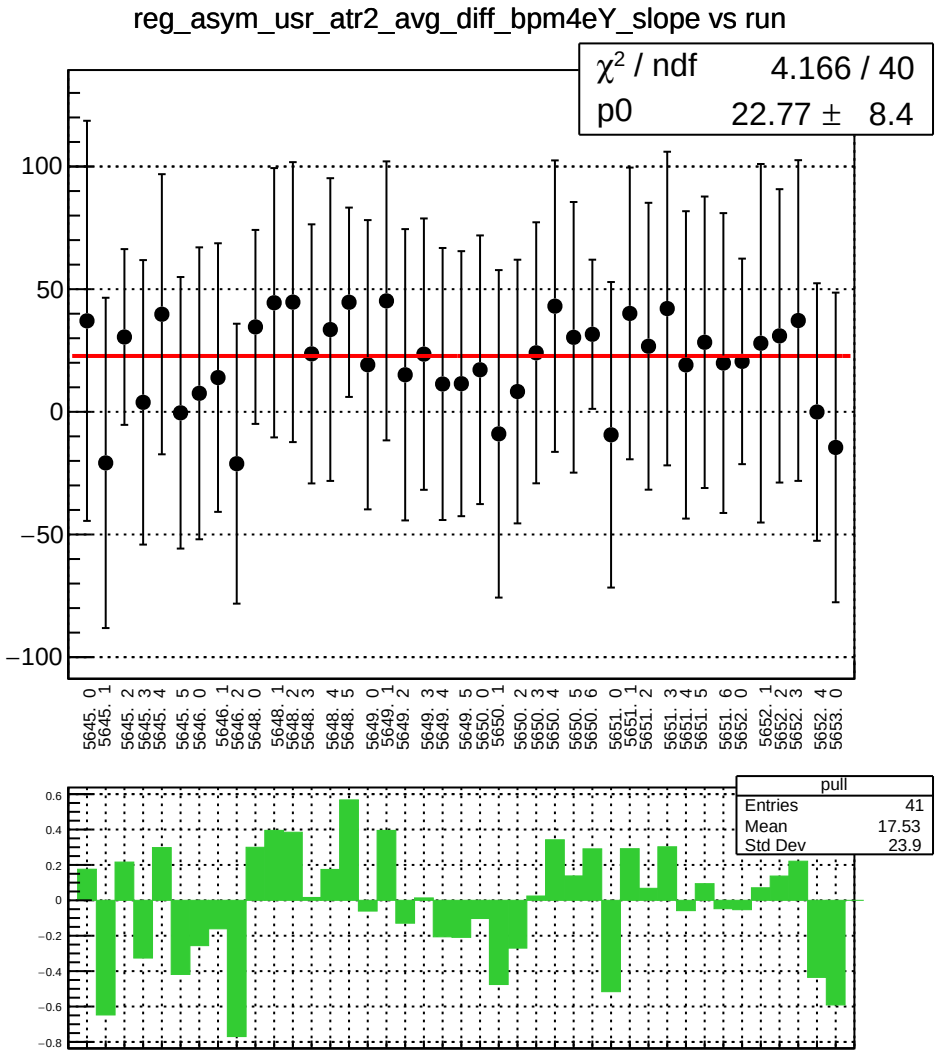

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.694 / 40
p0 −172.7 ± 8.116
−50
−100
−150
−200
−250
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 41.7
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

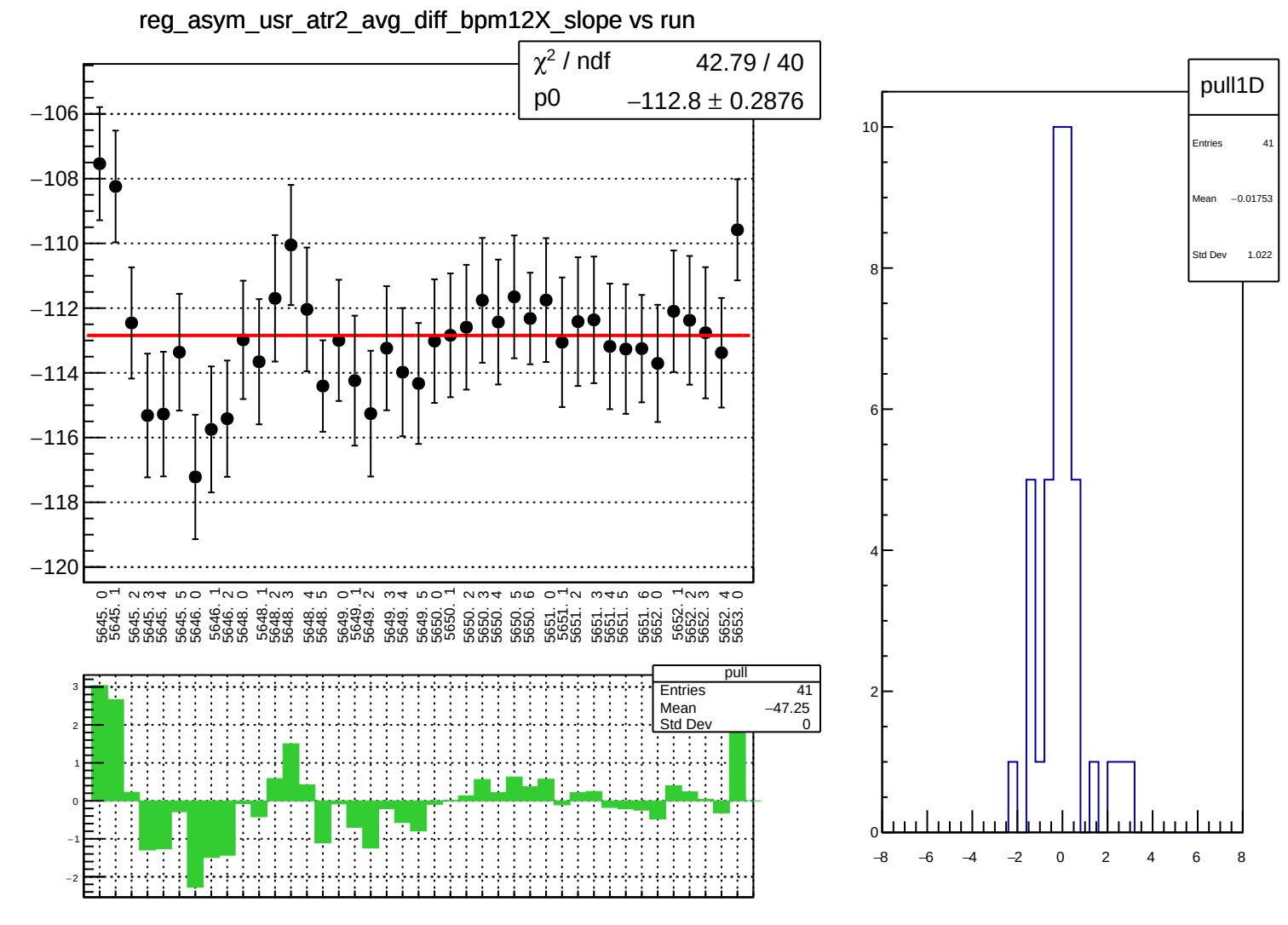

pull1D
Entries 41
Mean 0.0137
Std Dev 0.4038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

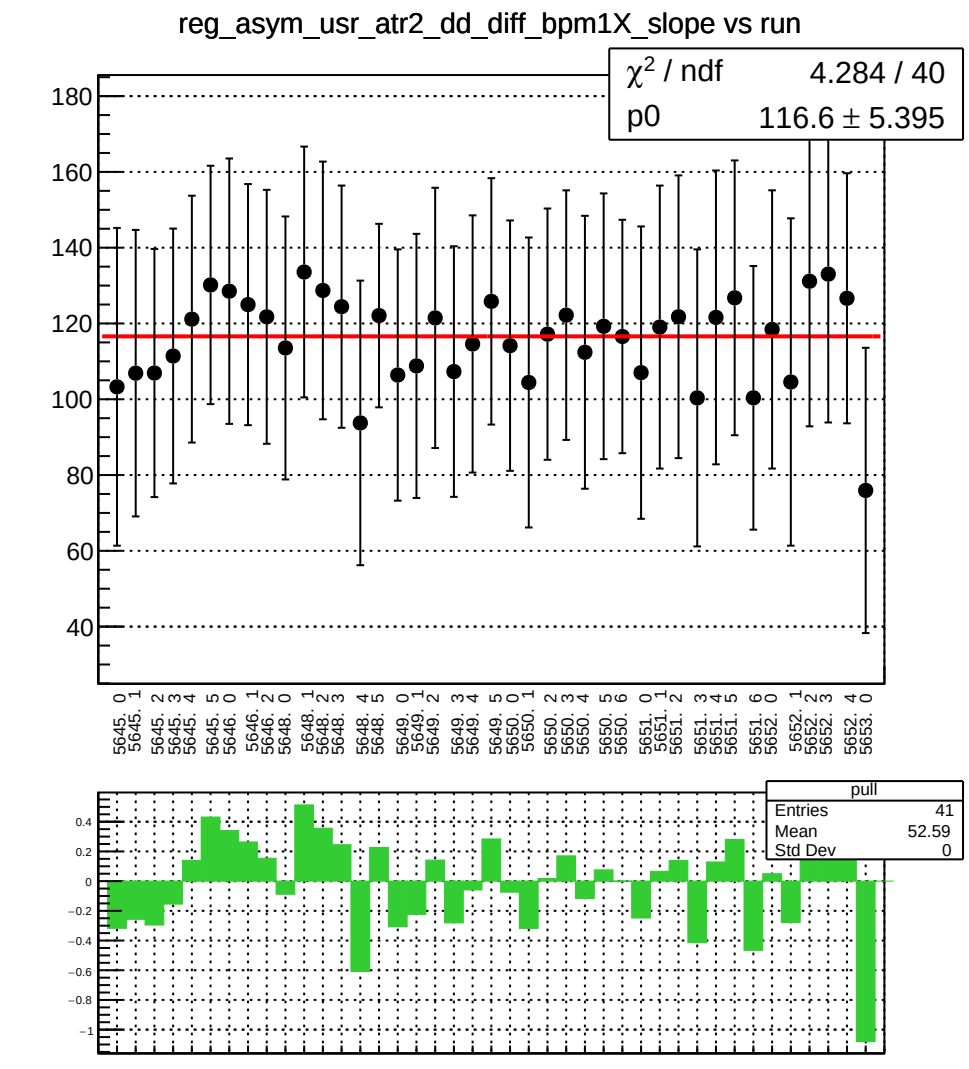

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.329 / 40
p0 27.12 ± 6.673
pull
Entries 41
Mean 9.747
Std Dev 19.76

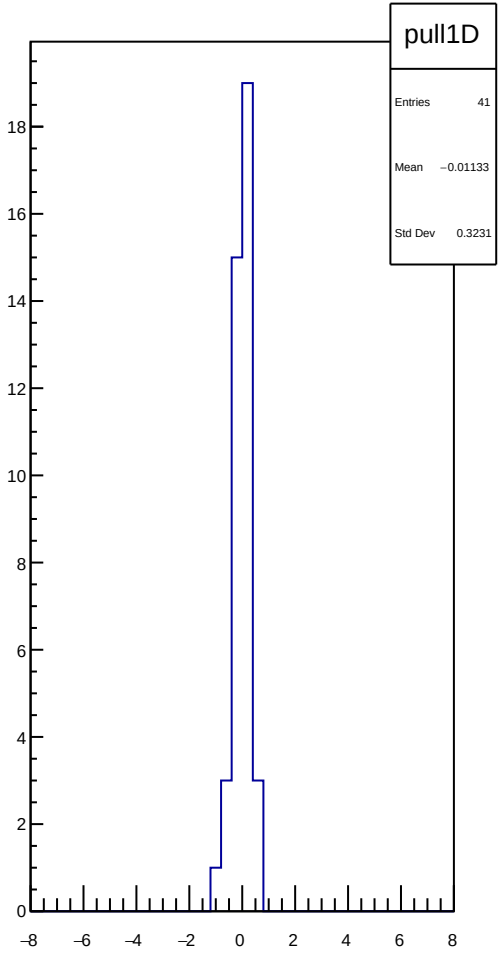

pull1D
Entries 41
Mean 0.02451
Std Dev 0.324

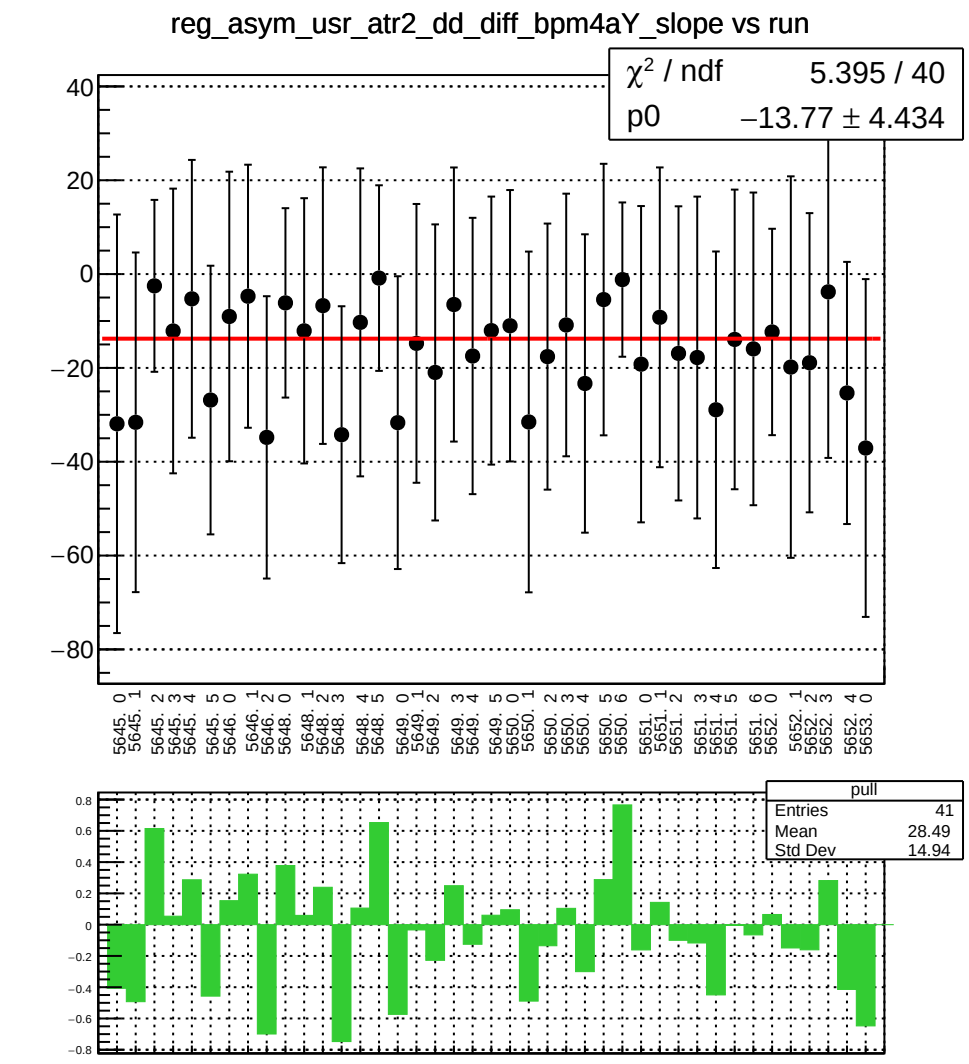

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.155 / 40
p0 257.6 ± 7.009
350
300
250
200
150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.61
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 41
Mean −0.01475
Std Dev 0.4175
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

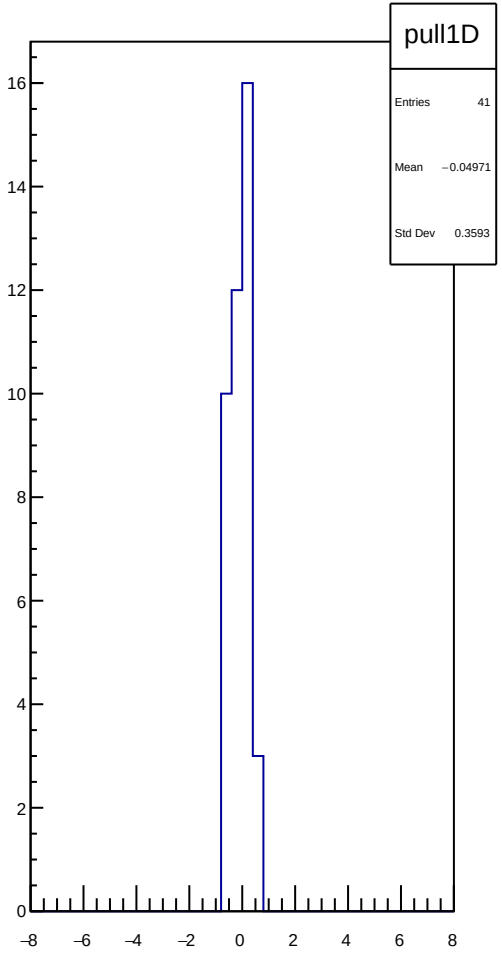

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.166 / 40
p0 22.77 ± 8.4
pull
Entries 41
Mean 17.53
Std Dev 23.9
pull1D
Entries 41
Mean −0.01991
Std Dev 0.3181

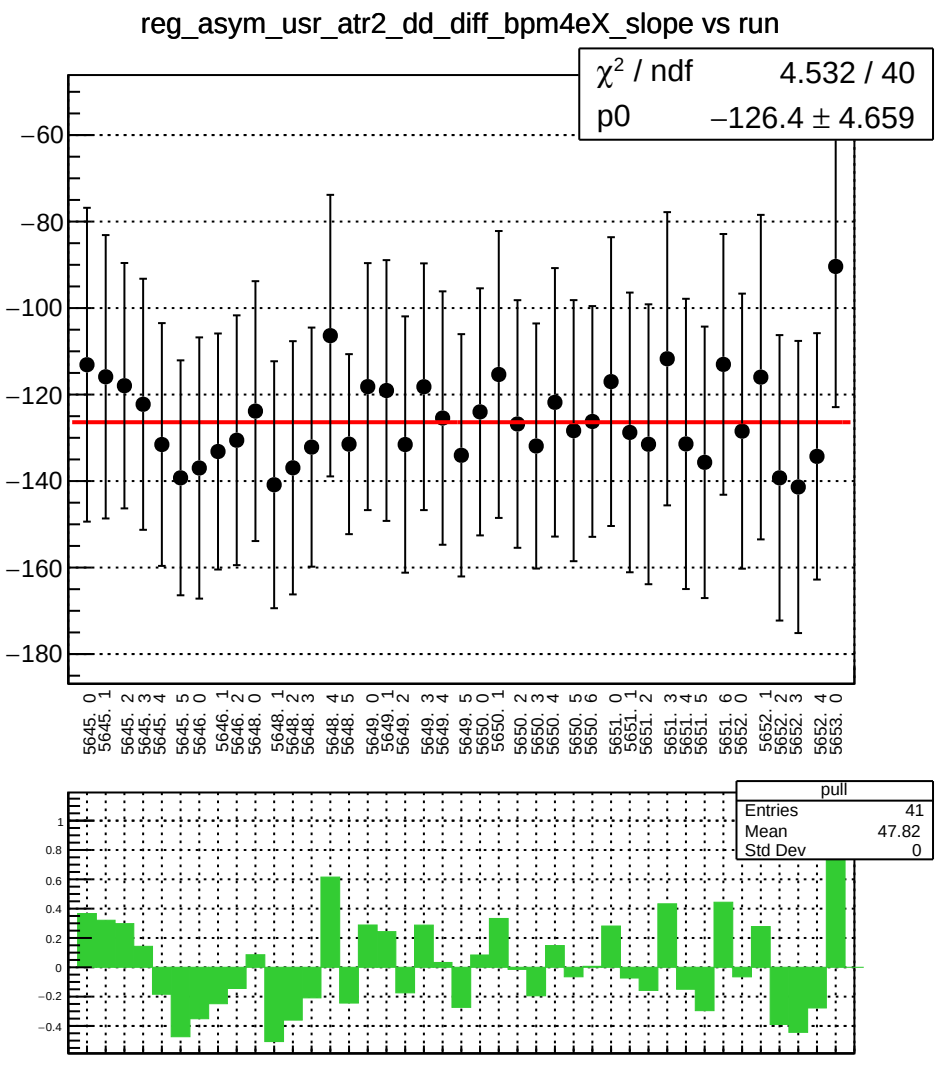

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 42.79 / 40
p0 −112.8 ± 0.2876
pull
Entries 41
Mean −47.25
Std Dev 0
pull1D
Entries 41
Mean −0.01753
Std Dev 1.022

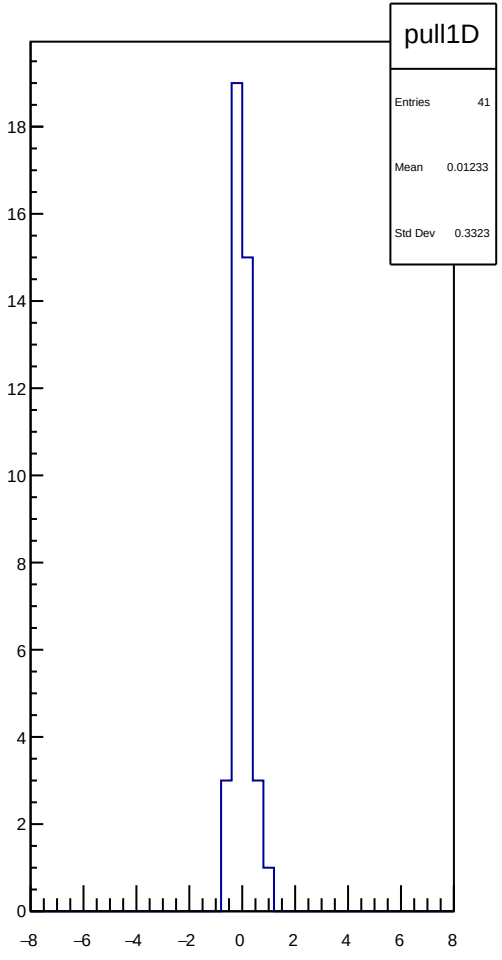

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.284 / 40
p0 116.6 ± 5.395
pull
Entries 41
Mean 52.59
Std Dev 0

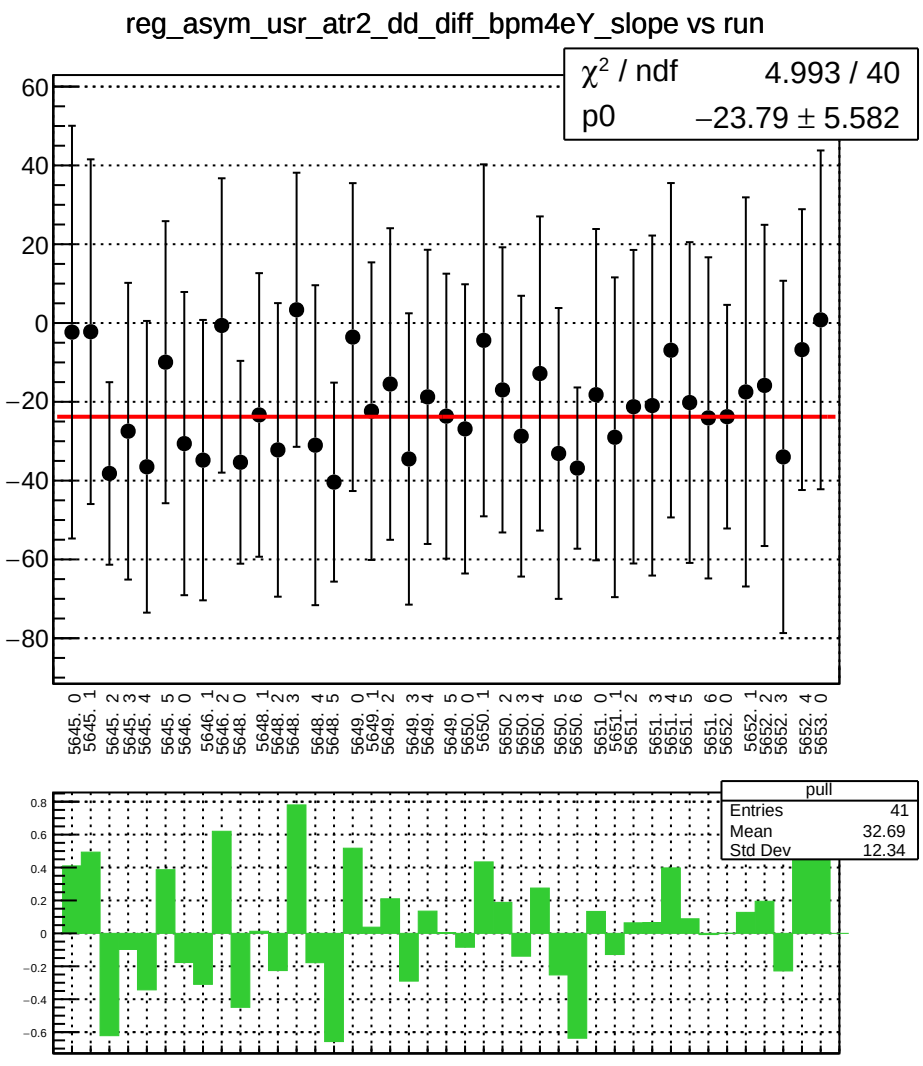

pull1D
Entries 41
Mean −0.01133
Std Dev 0.3231

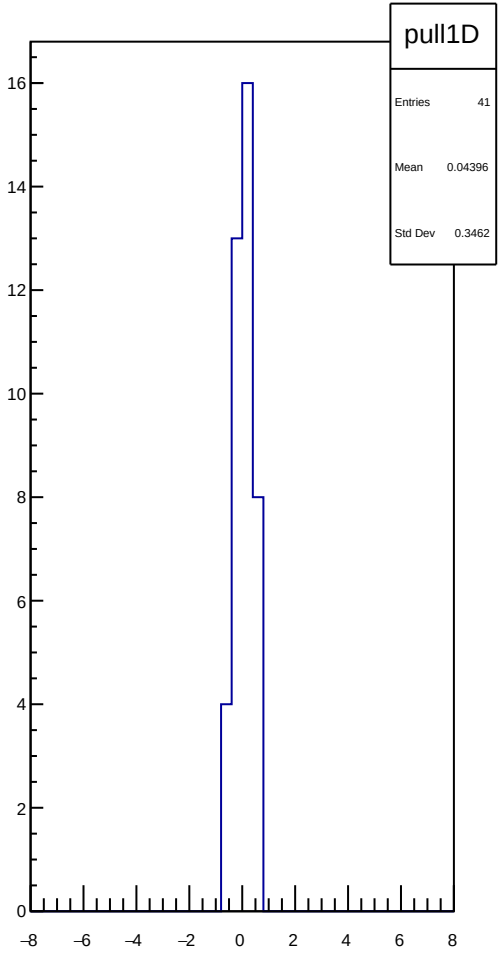

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.395 / 40
p0 −13.77 ± 4.434
pull
Entries 41
Mean 28.49
Std Dev 14.94

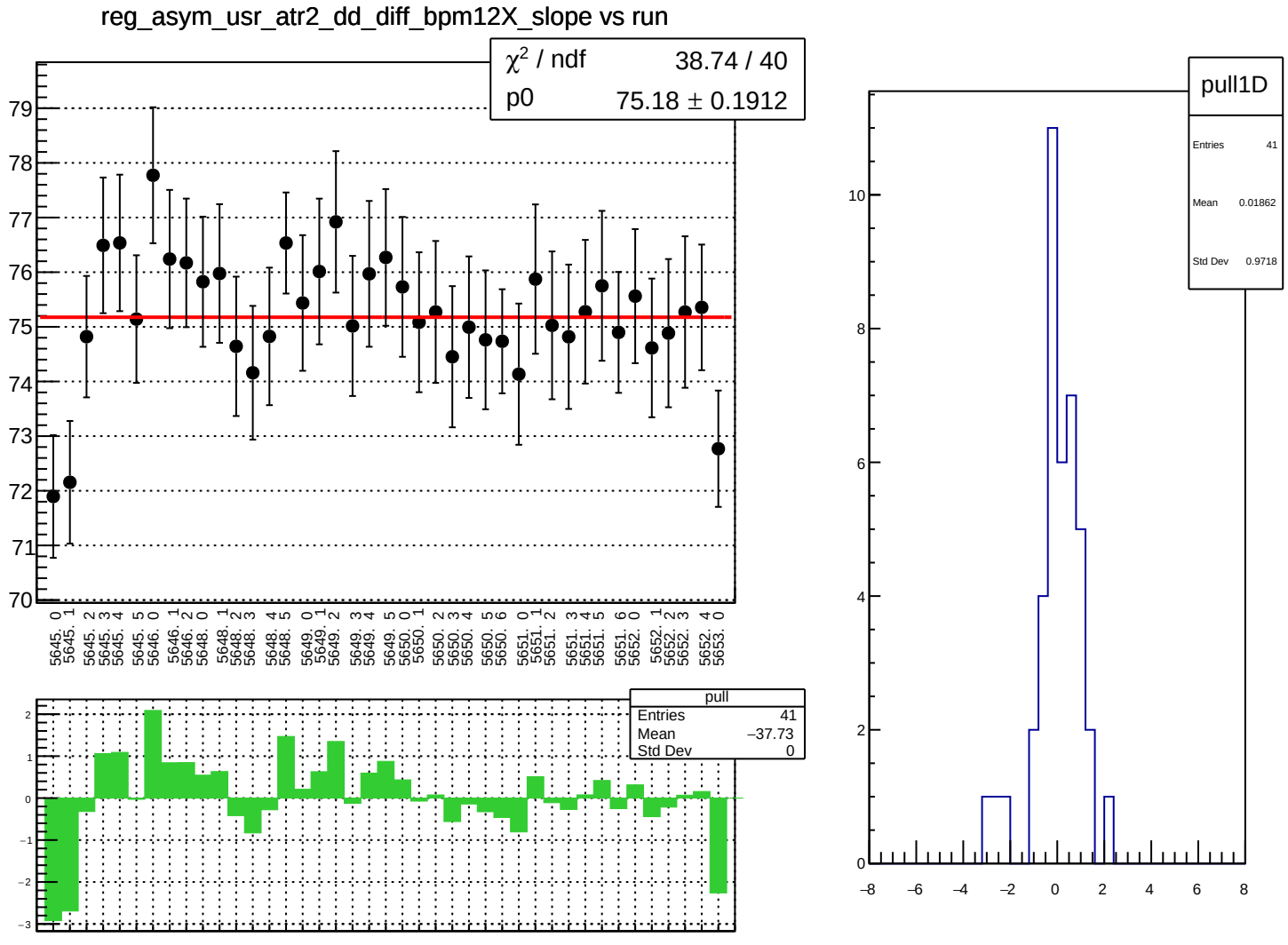

pull1D
Entries 41
Mean −0.04971
Std Dev 0.3593

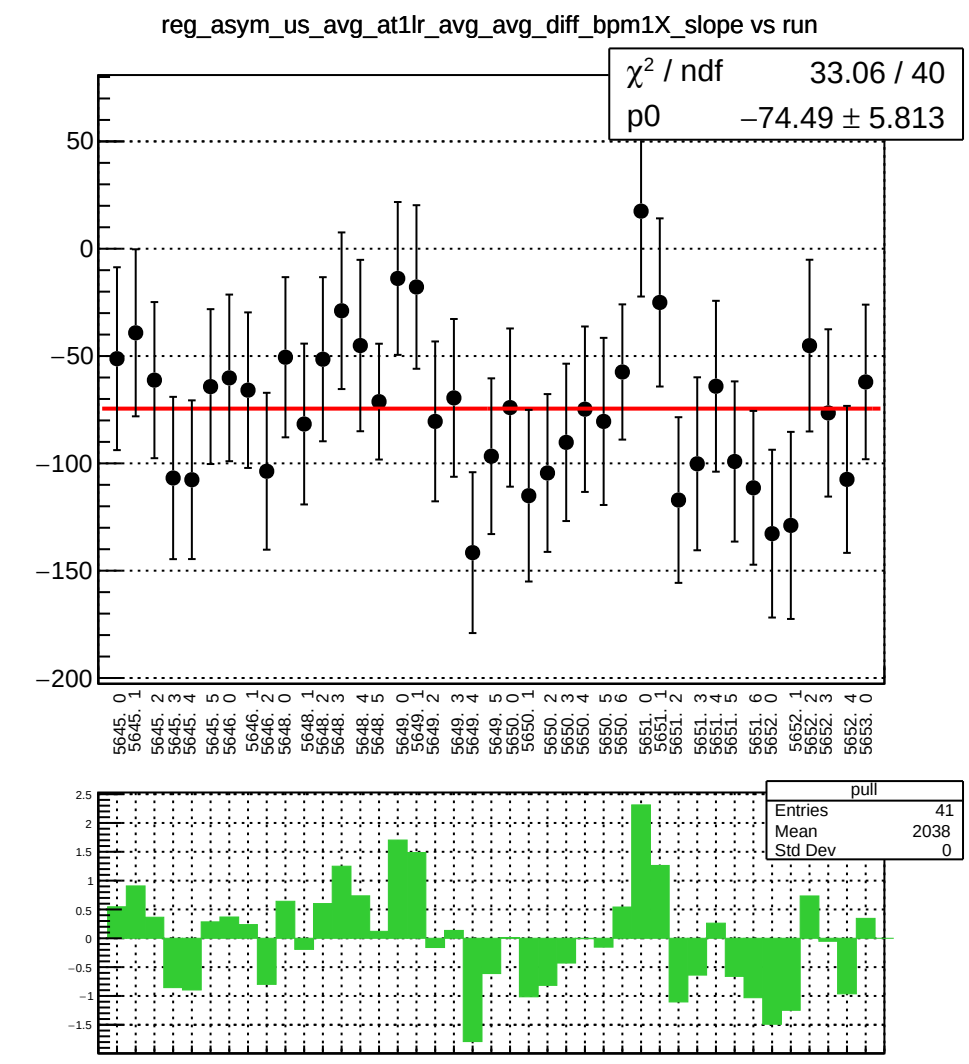

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.532 / 40
p0 −126.4 ± 4.659
pull
Entries 41
Mean 47.82
Std Dev 0

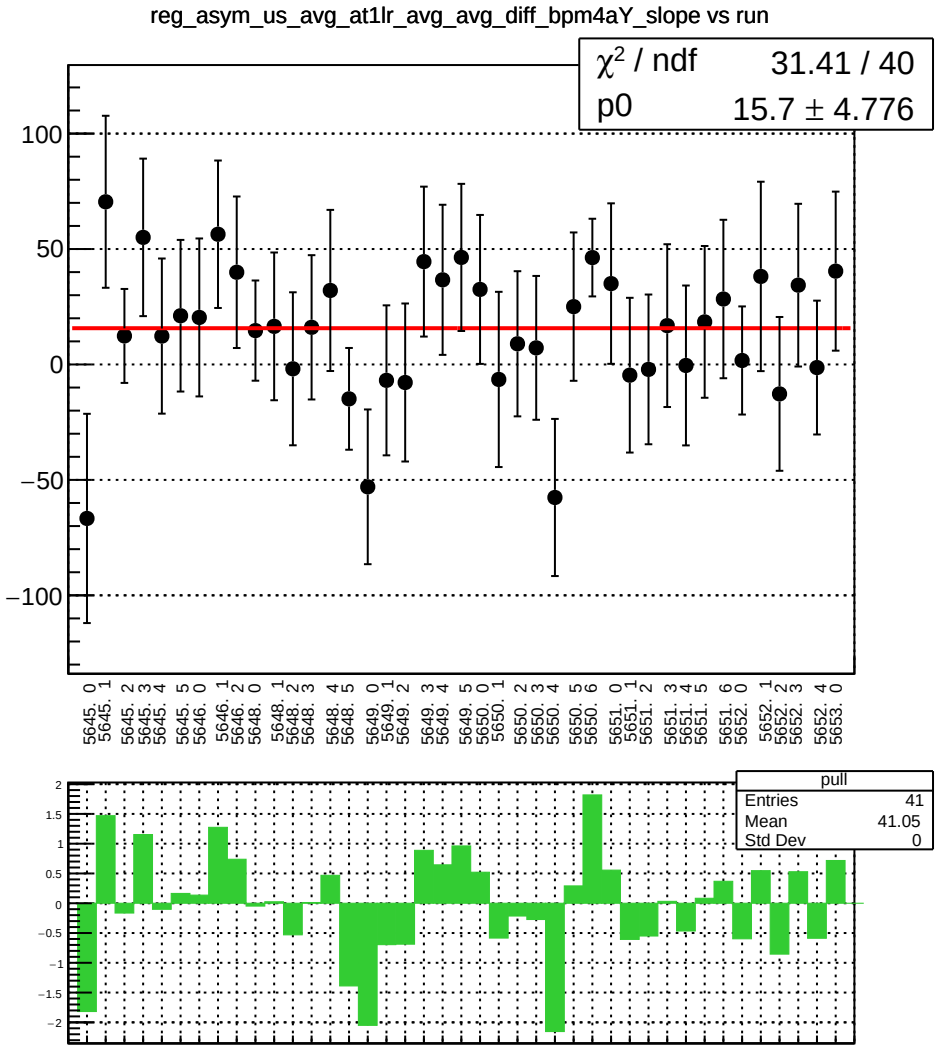

pull1D
Entries 41
Mean 0.01233
Std Dev 0.3323

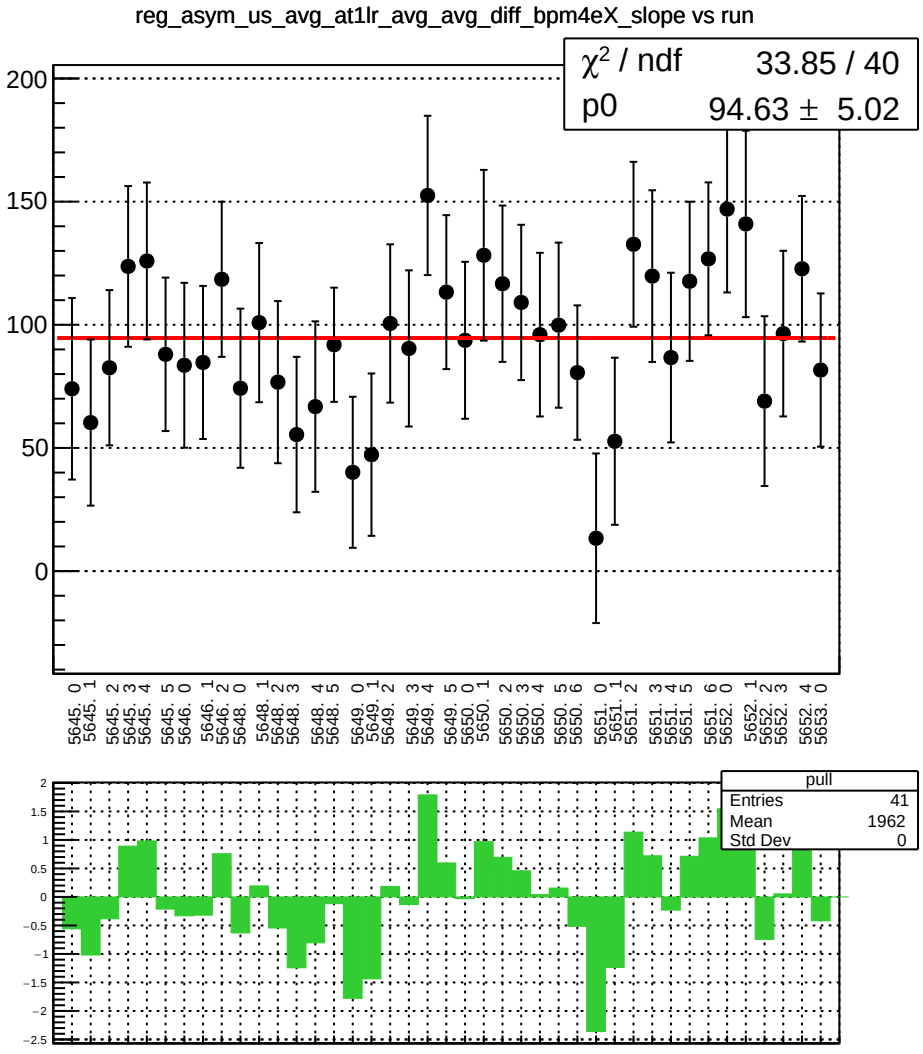

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.993 / 40
p0 −23.79 ± 5.582
pull
Entries 41
Mean 32.69
Std Dev 12.34

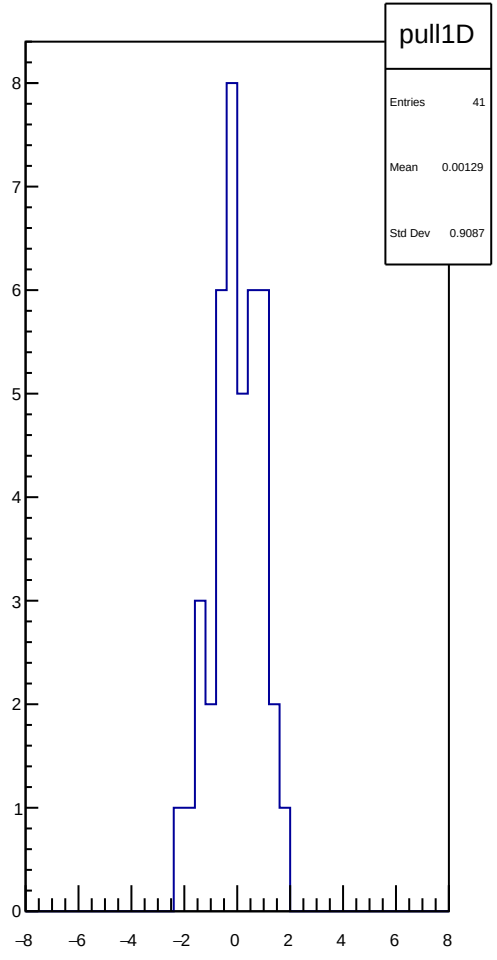

pull1D
Entries 41
Mean 0.04396
Std Dev 0.3462

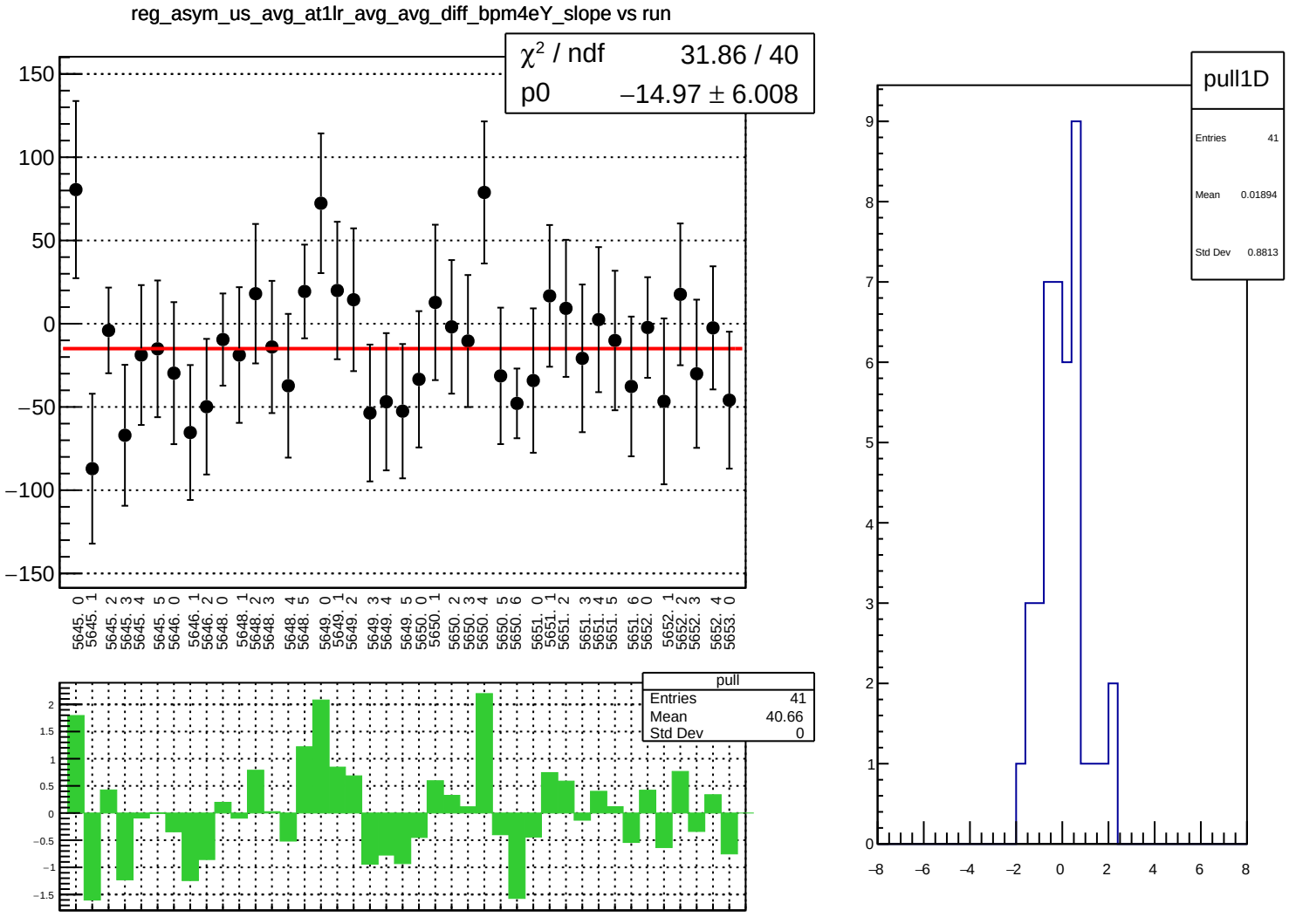

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 38.74 / 40
p0 75.18 ± 0.1912
pull
Entries 41
Mean −37.73
Std Dev 0
pull1D
Entries 41
Mean 0.01862
Std Dev 0.9718

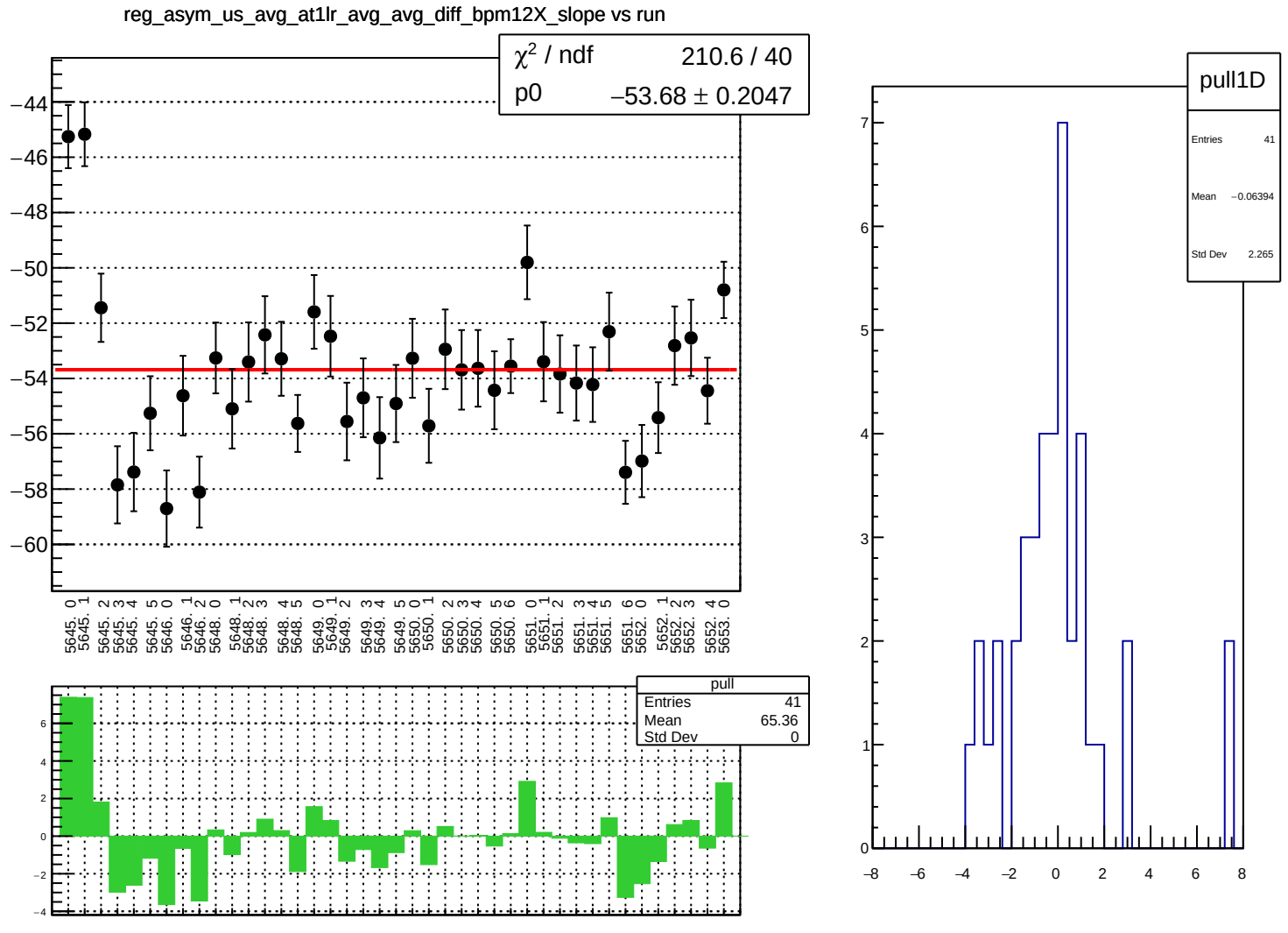

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.06 / 40
p0 −74.49 ± 5.813
50
0
−50
−100
−150
−200
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 2038
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.001224
Std Dev 0.898
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

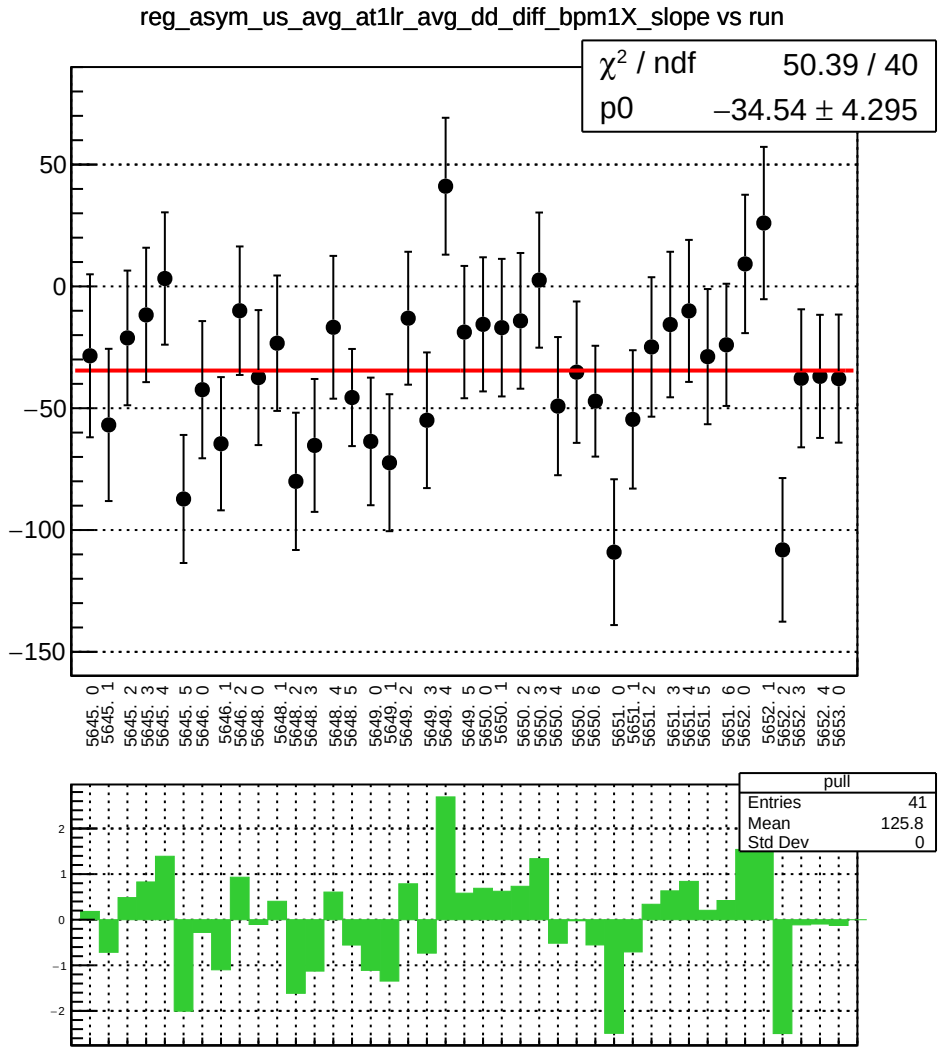

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.41 / 40
p0 15.7 ± 4.776
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 41.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.02368
Std Dev 0.8749
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

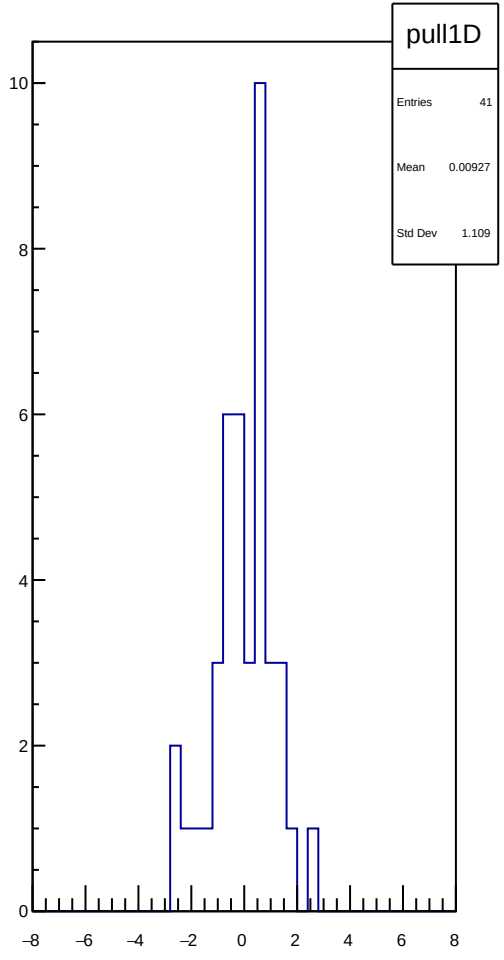

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.85 / 40
p0 94.63 ± 5.02
200
150
100
50
0
pull
Entries 41
Mean 1962
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

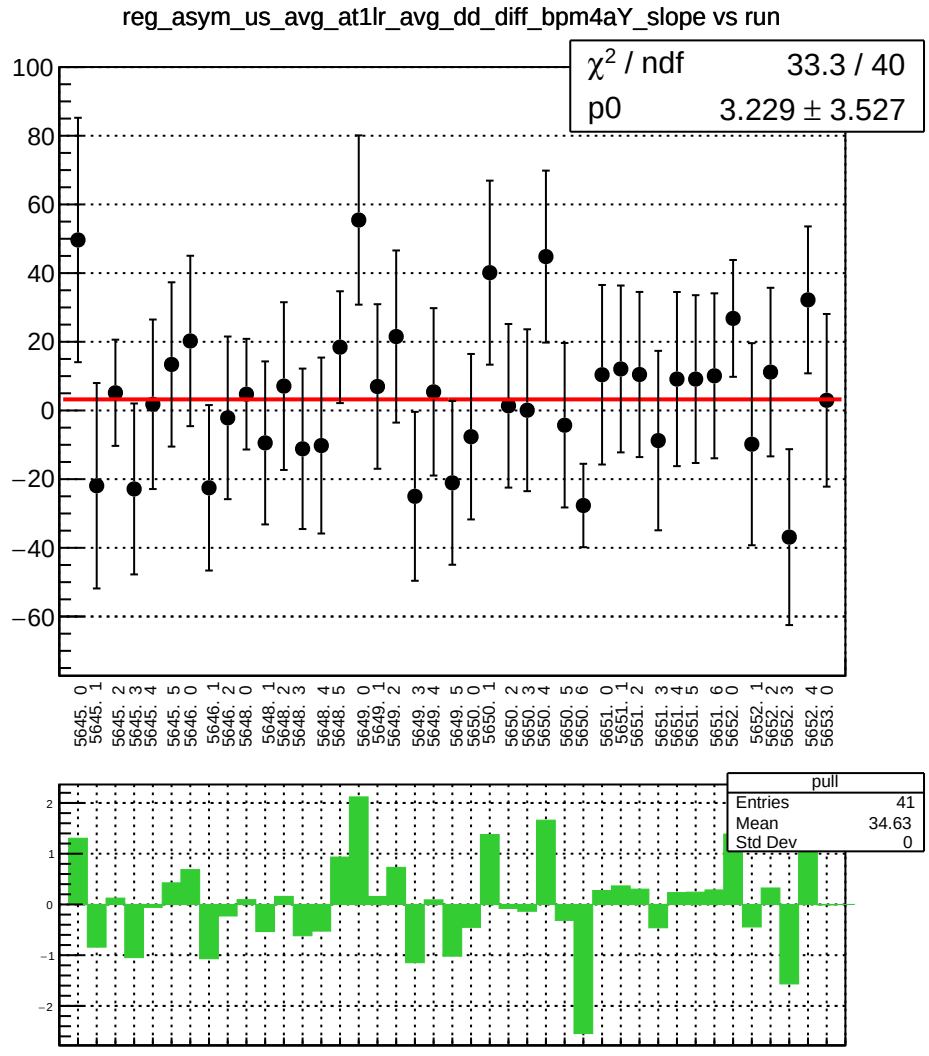

pull1D
Entries 41
Mean 0.00129
Std Dev 0.9087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

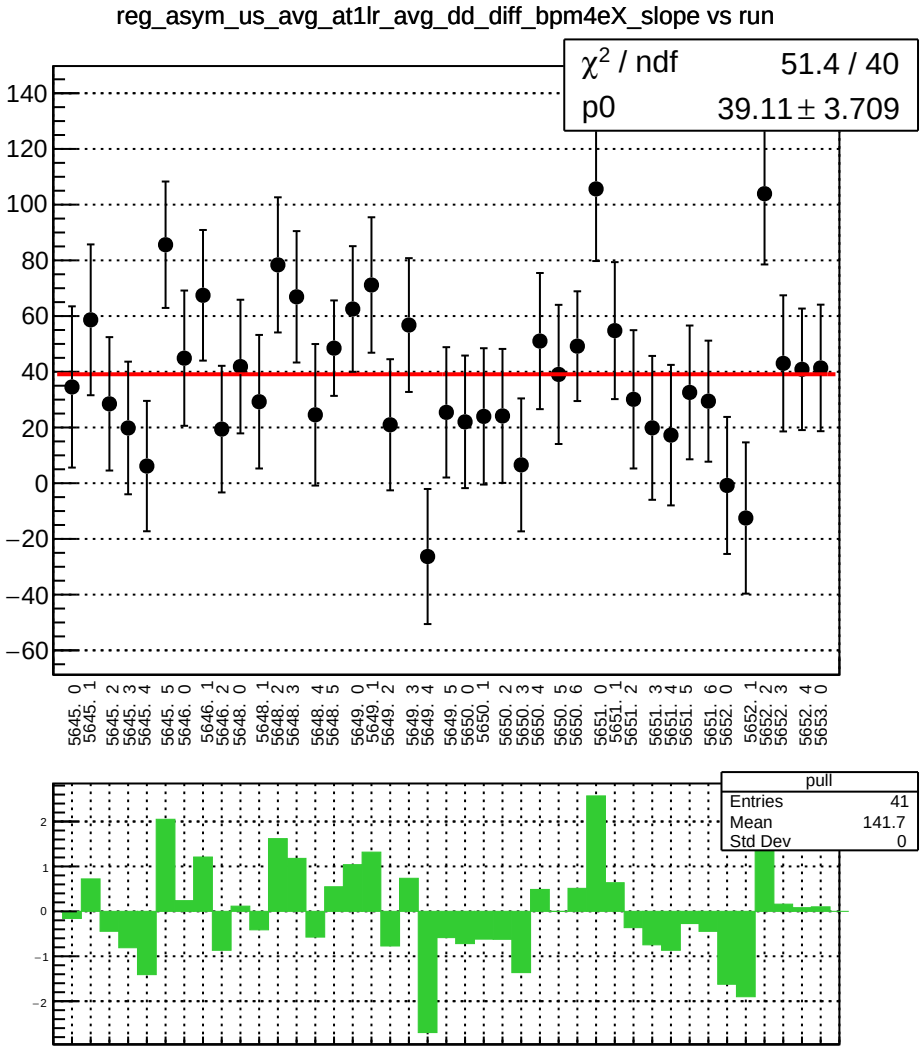

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.86 / 40
p0 −14.97 ± 6.008
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 40.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.01894
Std Dev 0.8813
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

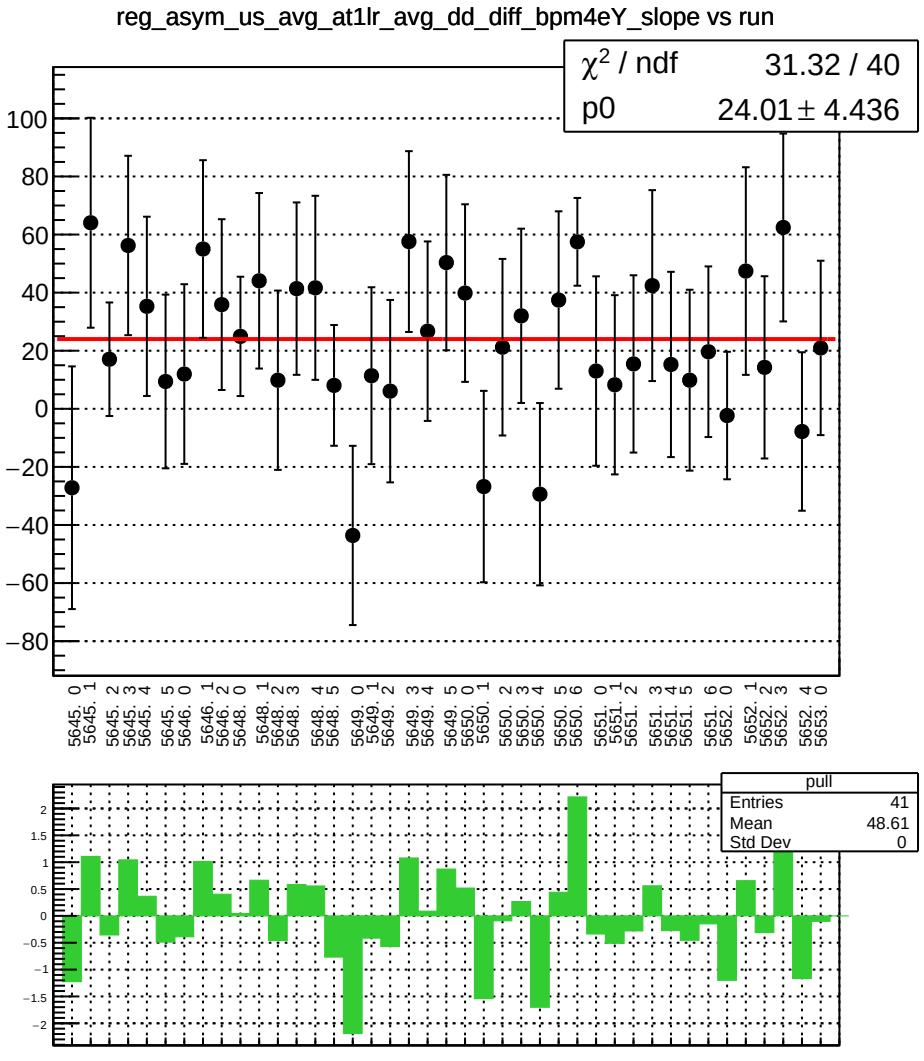

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 210.6 / 40
p0 −53.68 ± 0.2047
pull
Entries 41
Mean 65.36
Std Dev 0
pull1D
Entries 41
Mean −0.06394
Std Dev 2.265

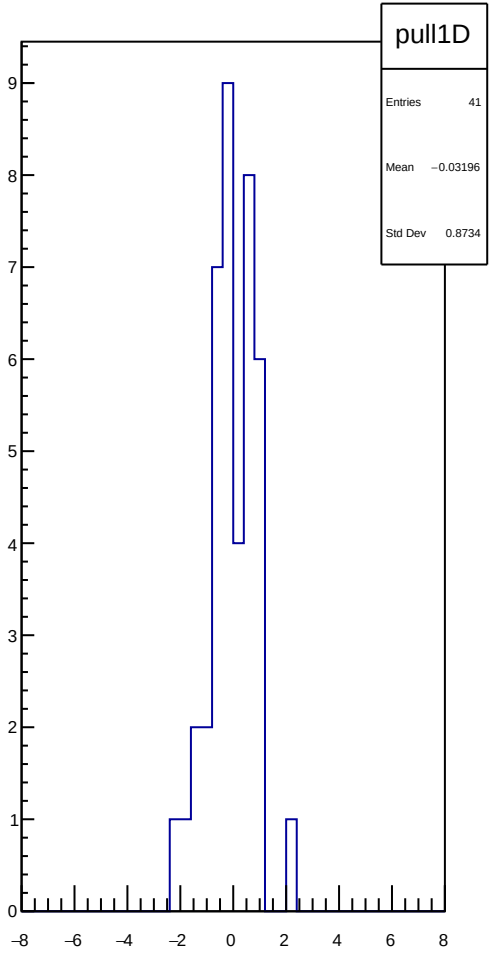

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 50.39 / 40
p0 −34.54 ± 4.295
50
0
−50
−100
−150
pull
Entries 41
Mean 125.8
Std Dev 0
2
1
0
−1
−2

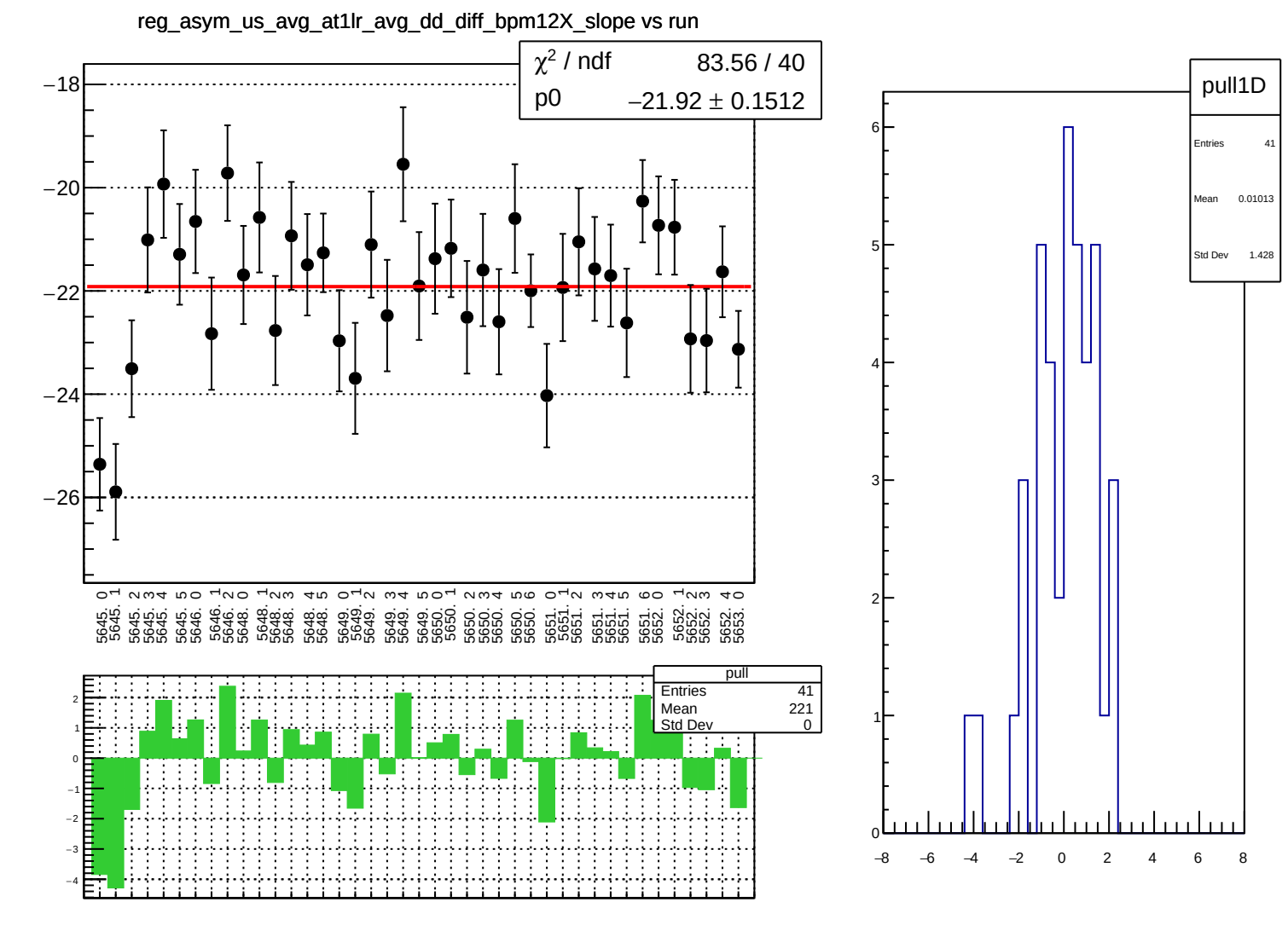

pull1D
Entries 41
Mean 0.00927
Std Dev 1.109
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

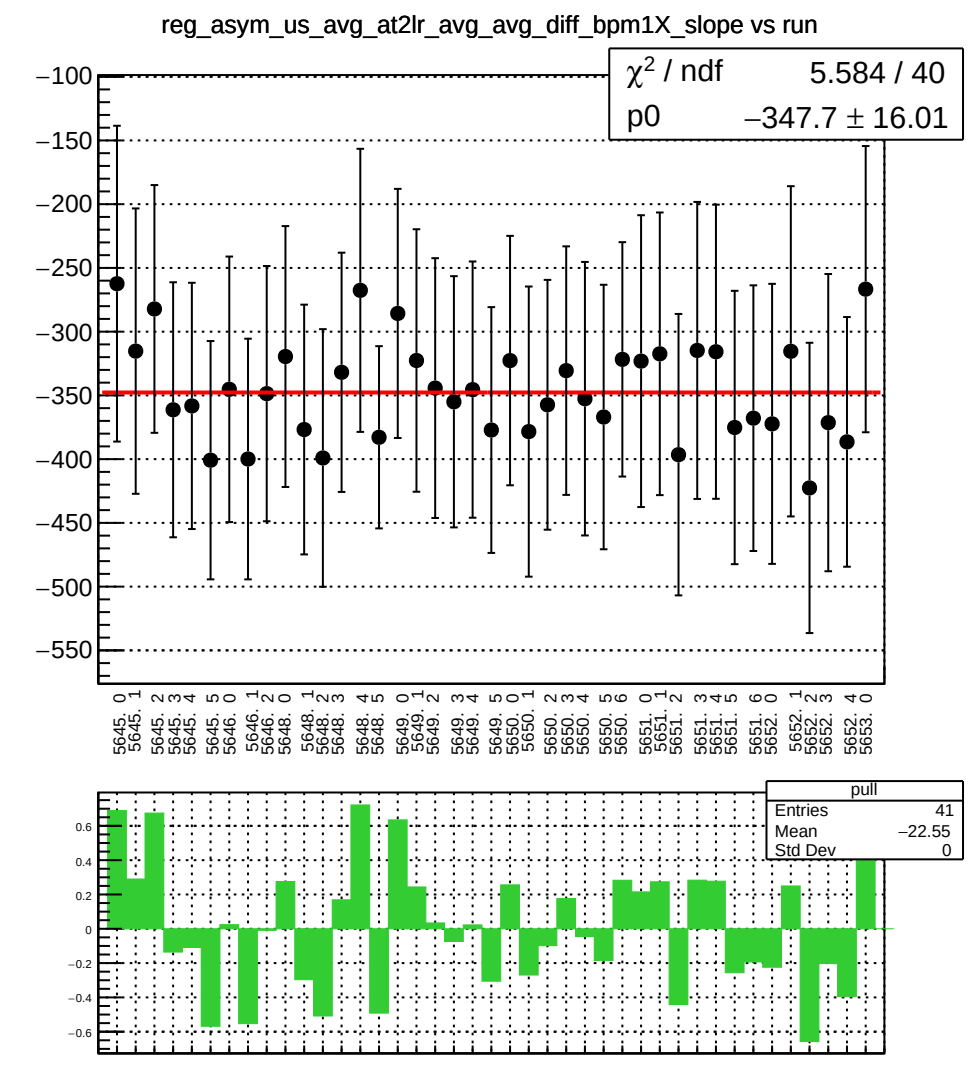

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.3 / 40
p0 3.229 ± 3.527
pull
Entries 41
Mean 34.63
Std Dev 0
pull1D
Entries 41
Mean 0.03753
Std Dev 0.9004

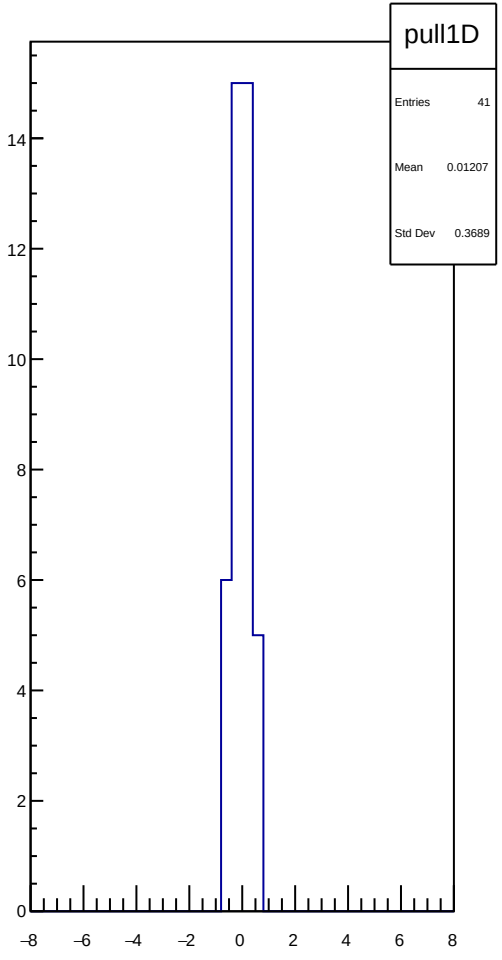

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.4 / 40
p0 39.11 ± 3.709
pull
Entries 41
Mean 141.7
Std Dev 0
pull1D
Entries 41
Mean −0.009437
Std Dev 1.12

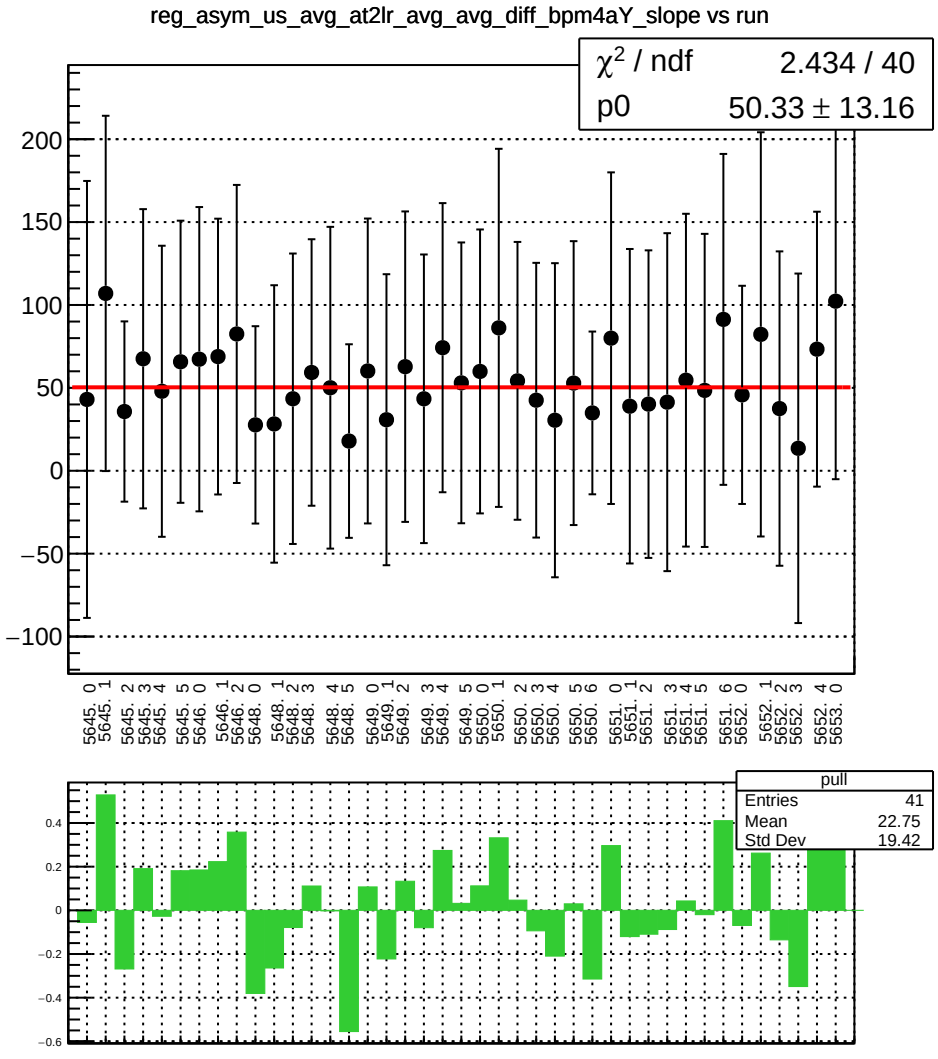

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.32 / 40
p0 24.01 ± 4.436
pull
Entries 41
Mean 48.61
Std Dev 0

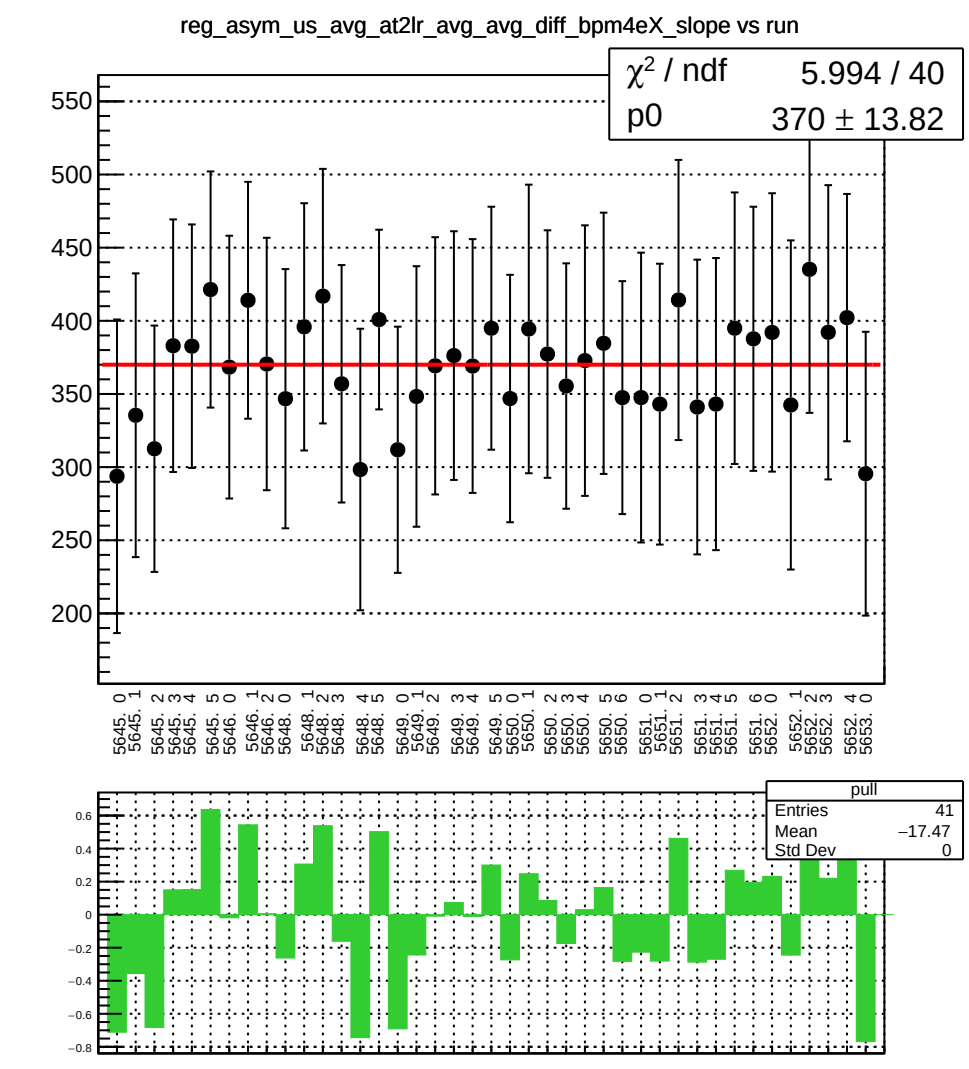

pull1D
Entries 41
Mean −0.03196
Std Dev 0.8734

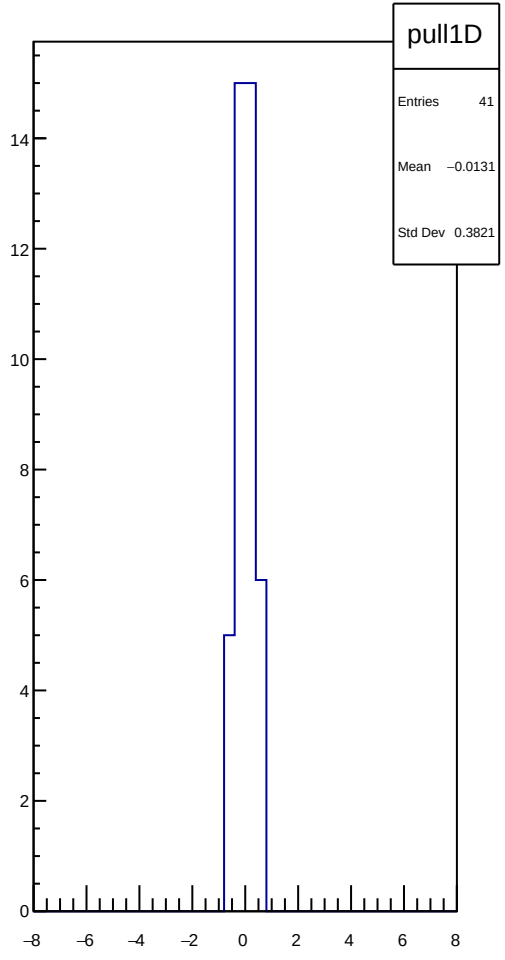

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 83.56 / 40
p0 −21.92 ± 0.1512
−18
−20
−22
−24
−26
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 221
Std Dev 0
pull1D
Entries 41
Mean 0.01013
Std Dev 1.428

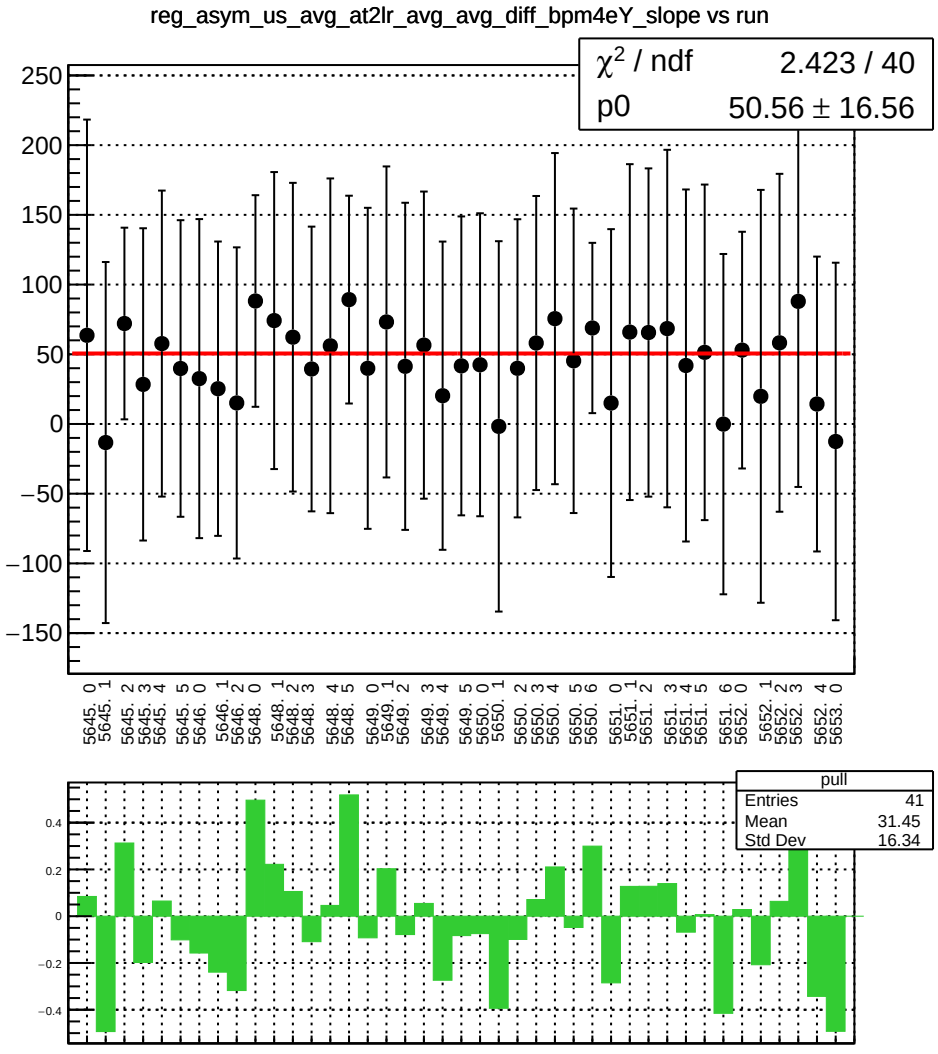

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 5.584 / 40
p0 −347.7 ± 16.01
pull
Entries 41
Mean −22.55
Std Dev 0

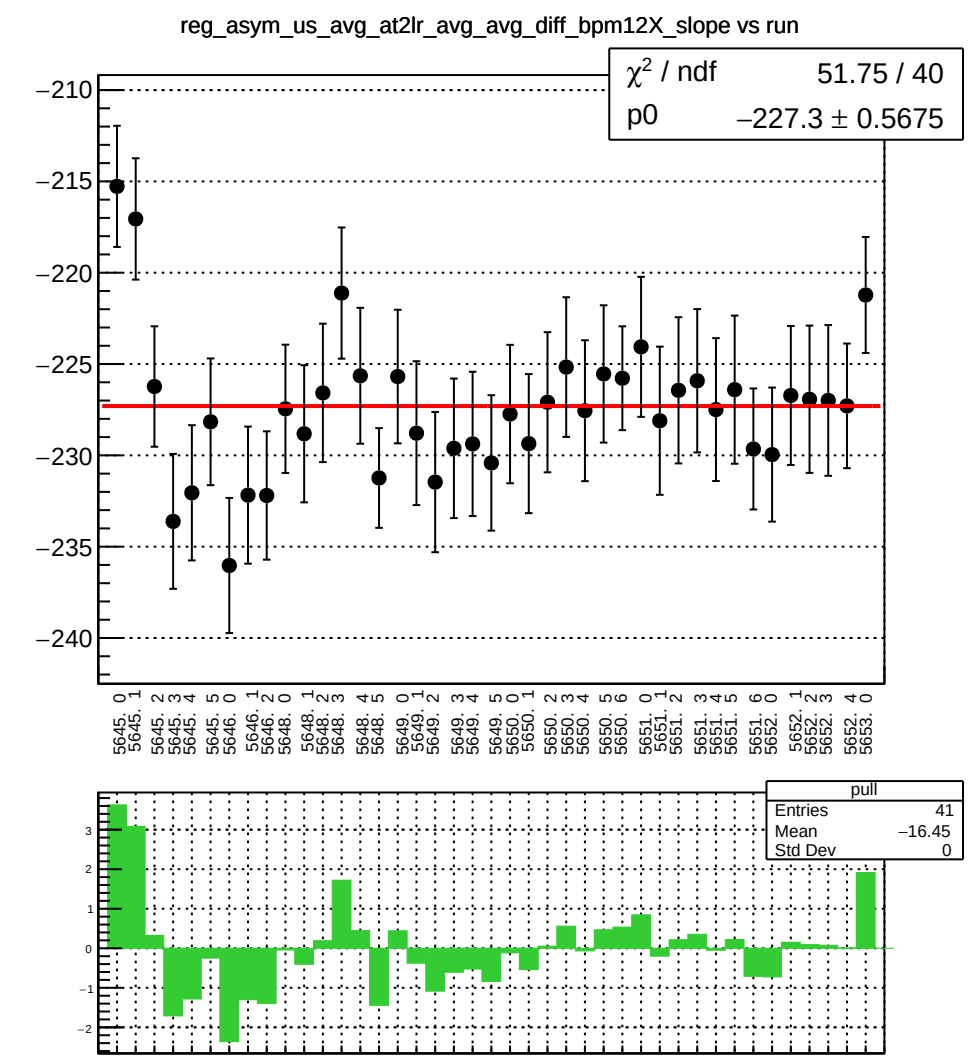

pull1D
Entries 41
Mean 0.01207
Std Dev 0.3689

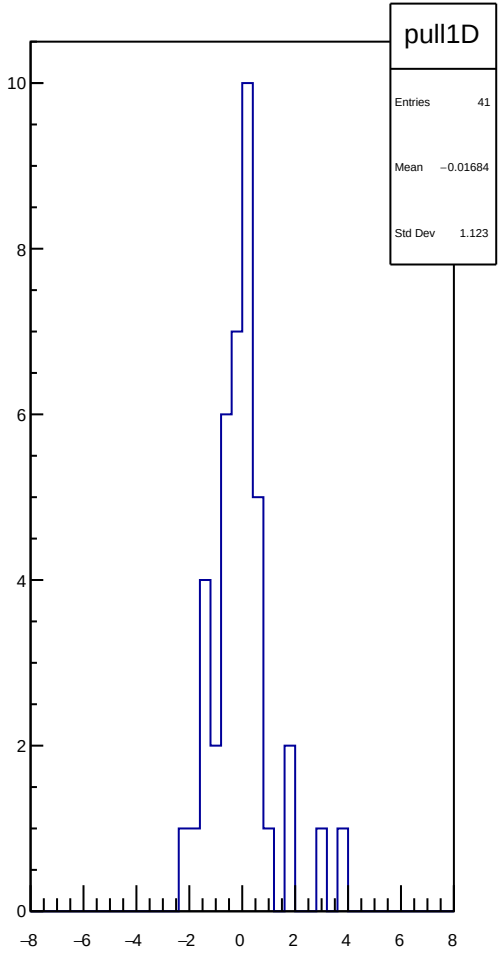

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.434 / 40
p0 50.33 ± 13.16
pull
Entries 41
Mean 22.75
Std Dev 19.42
pull1D
Entries 41
Mean 0.0287
Std Dev 0.242

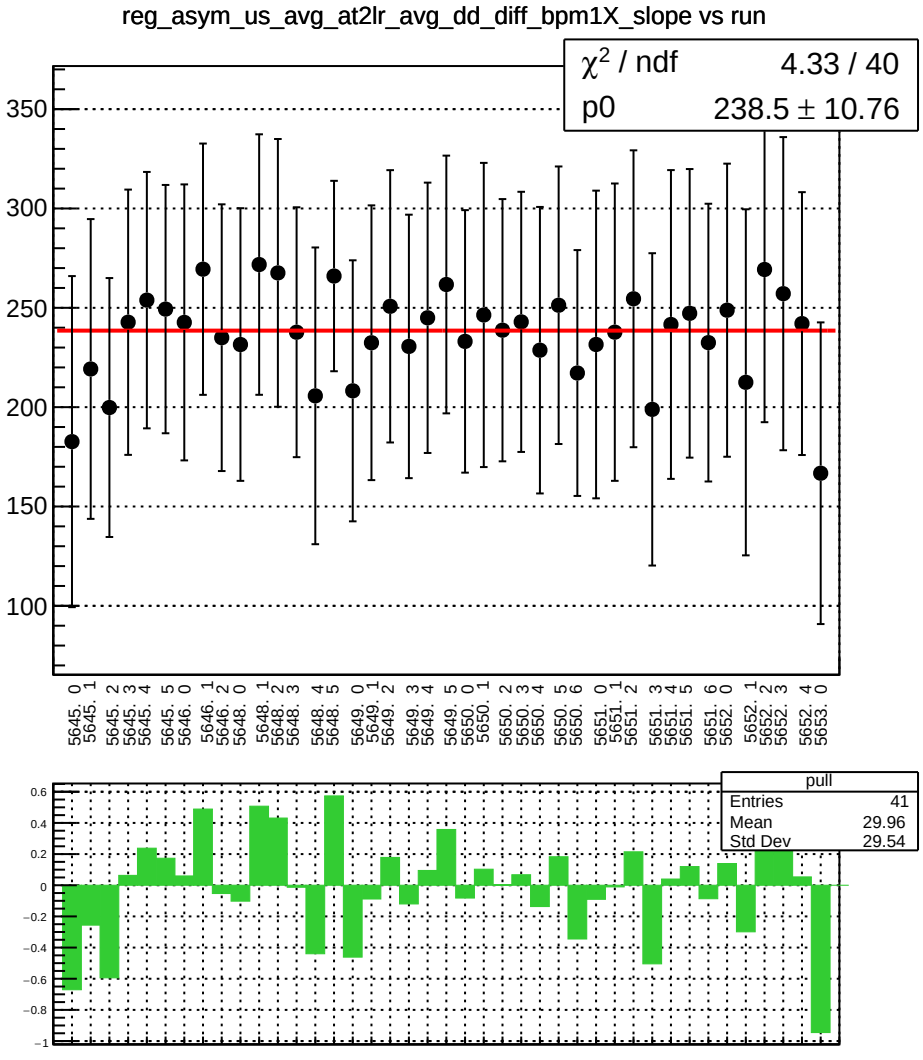

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.994 / 40
p0 370 ± 13.82
pull
Entries 41
Mean −17.47
Std Dev 0

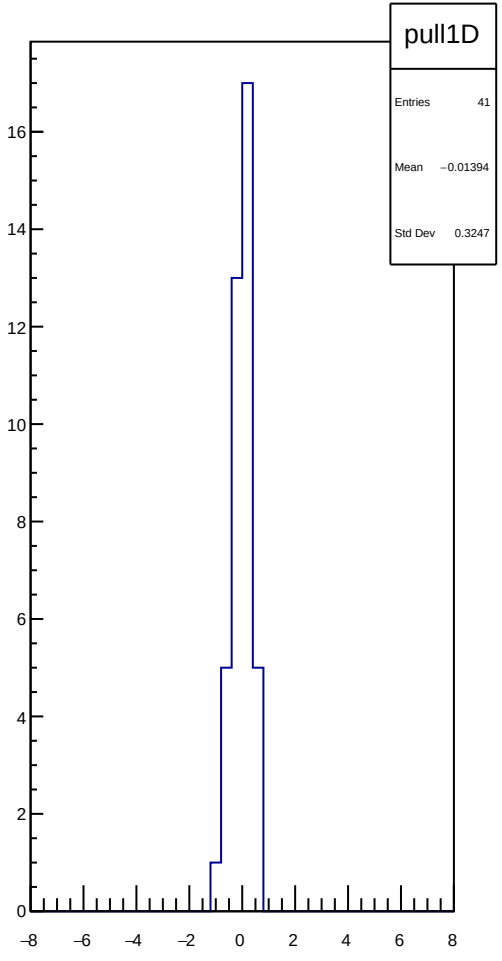

pull1D
Entries 41
Mean −0.0131
Std Dev 0.3821

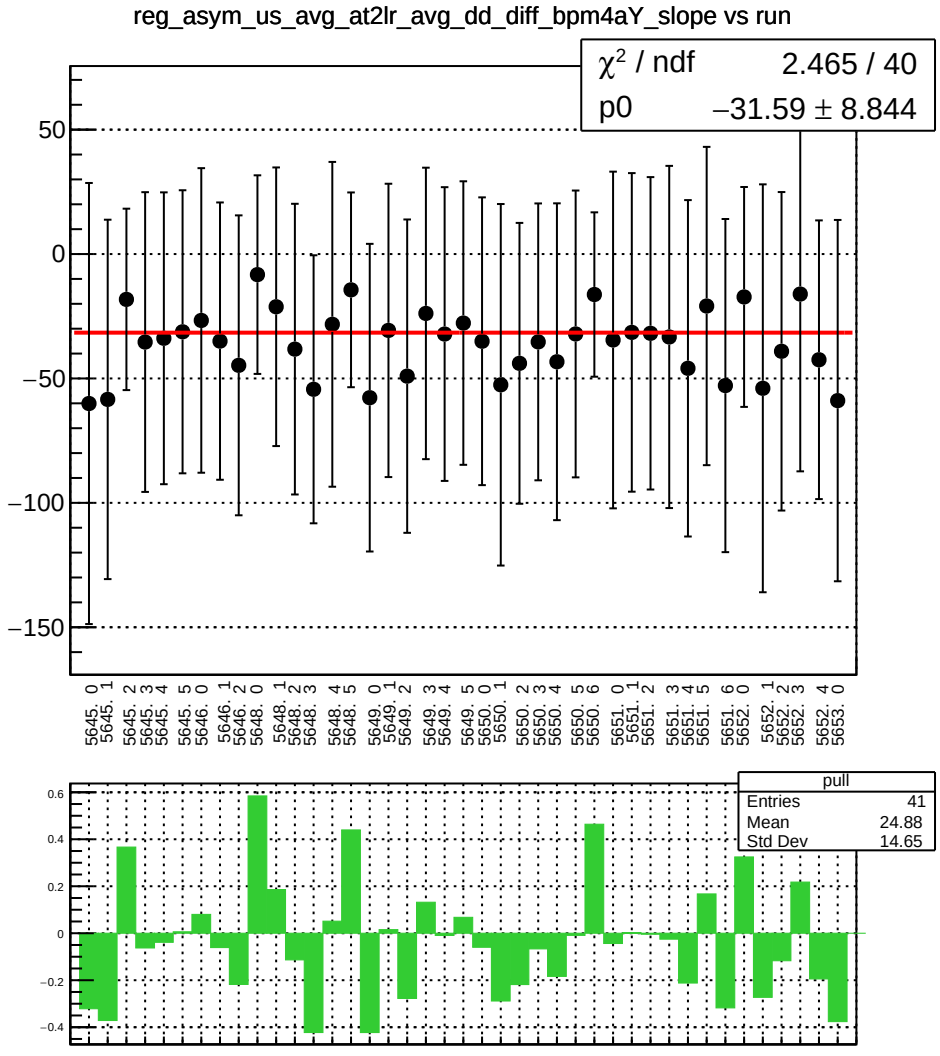

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.423 / 40
p0 50.56 ± 16.56
pull
Entries 41
Mean 31.45
Std Dev 16.34
pull1D
Entries 41
Mean −0.02697
Std Dev 0.2416

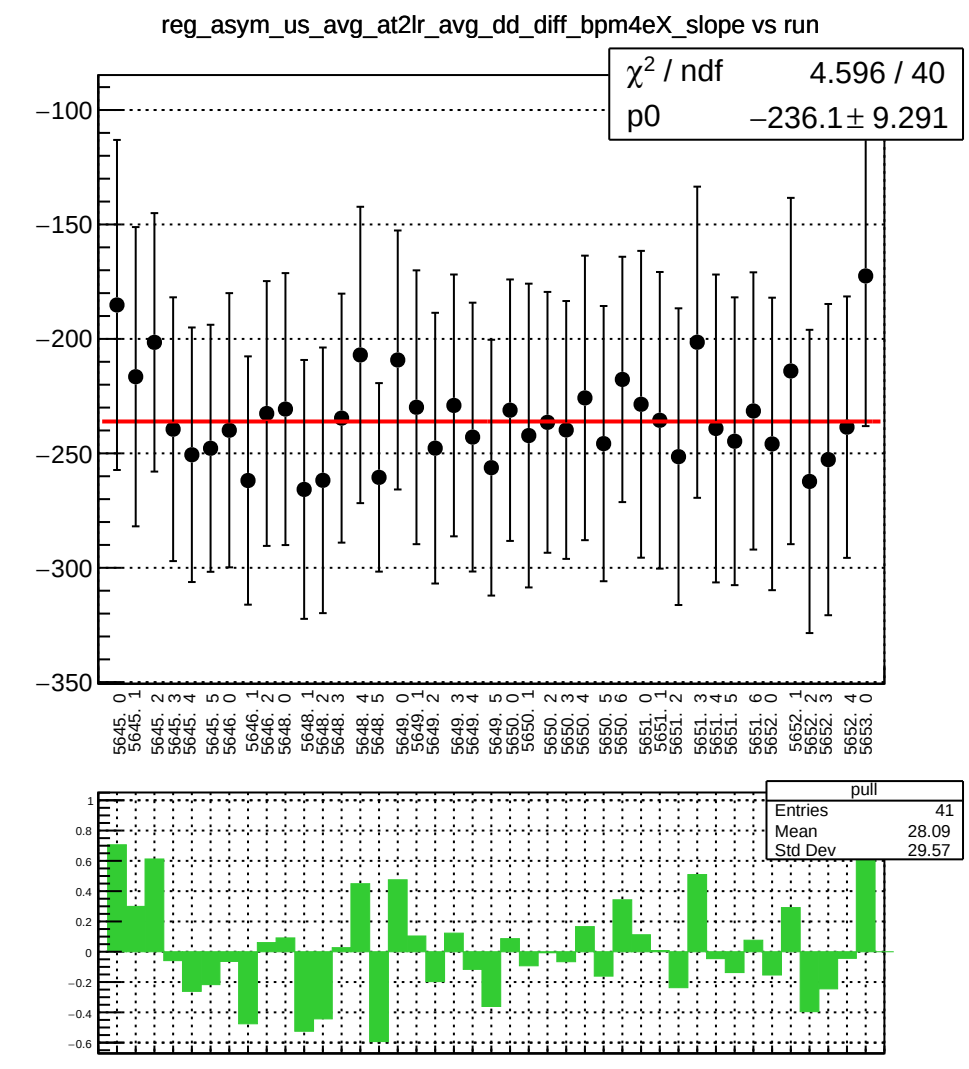

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 51.75 / 40
p0 −227.3 ± 0.5675
pull
Entries 41
Mean −16.45
Std Dev 0

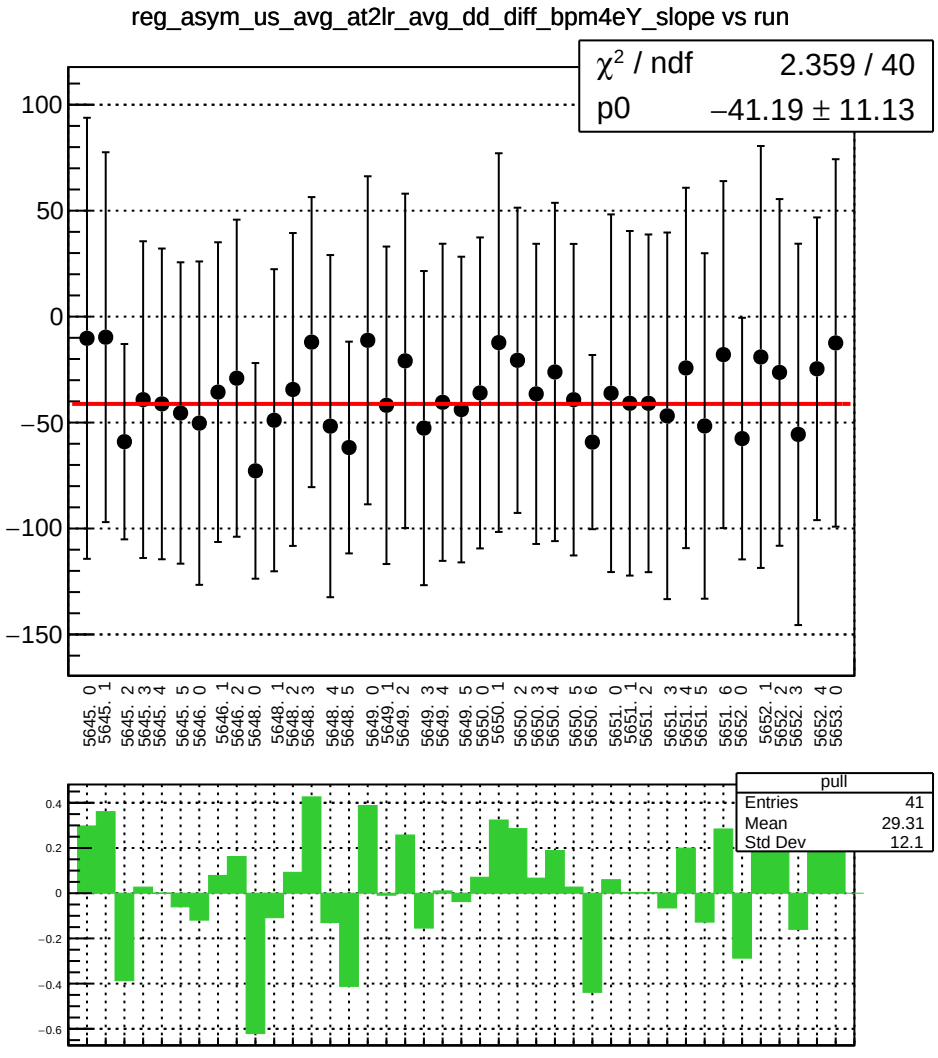

pull1D
Entries 41
Mean −0.01684
Std Dev 1.123

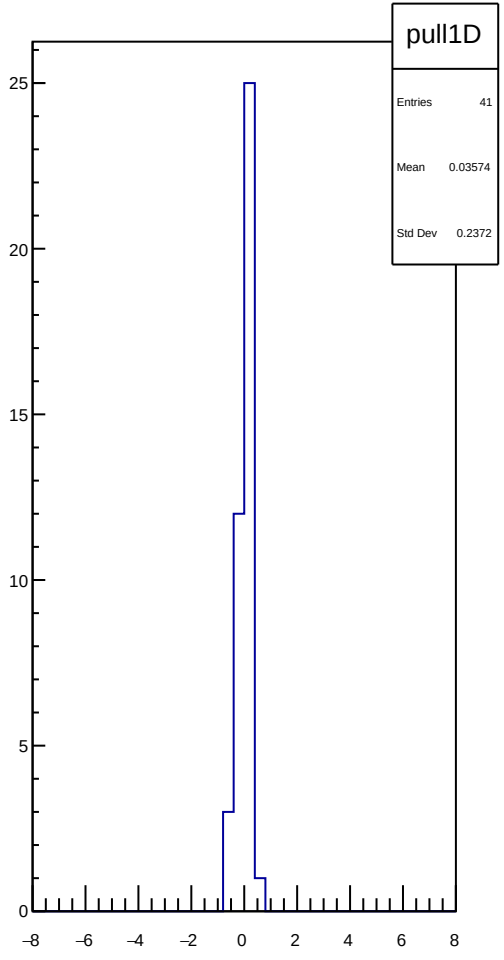

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 4.33 / 40
p0 238.5 ± 10.76
pull
Entries 41
Mean 29.96
Std Dev 29.54

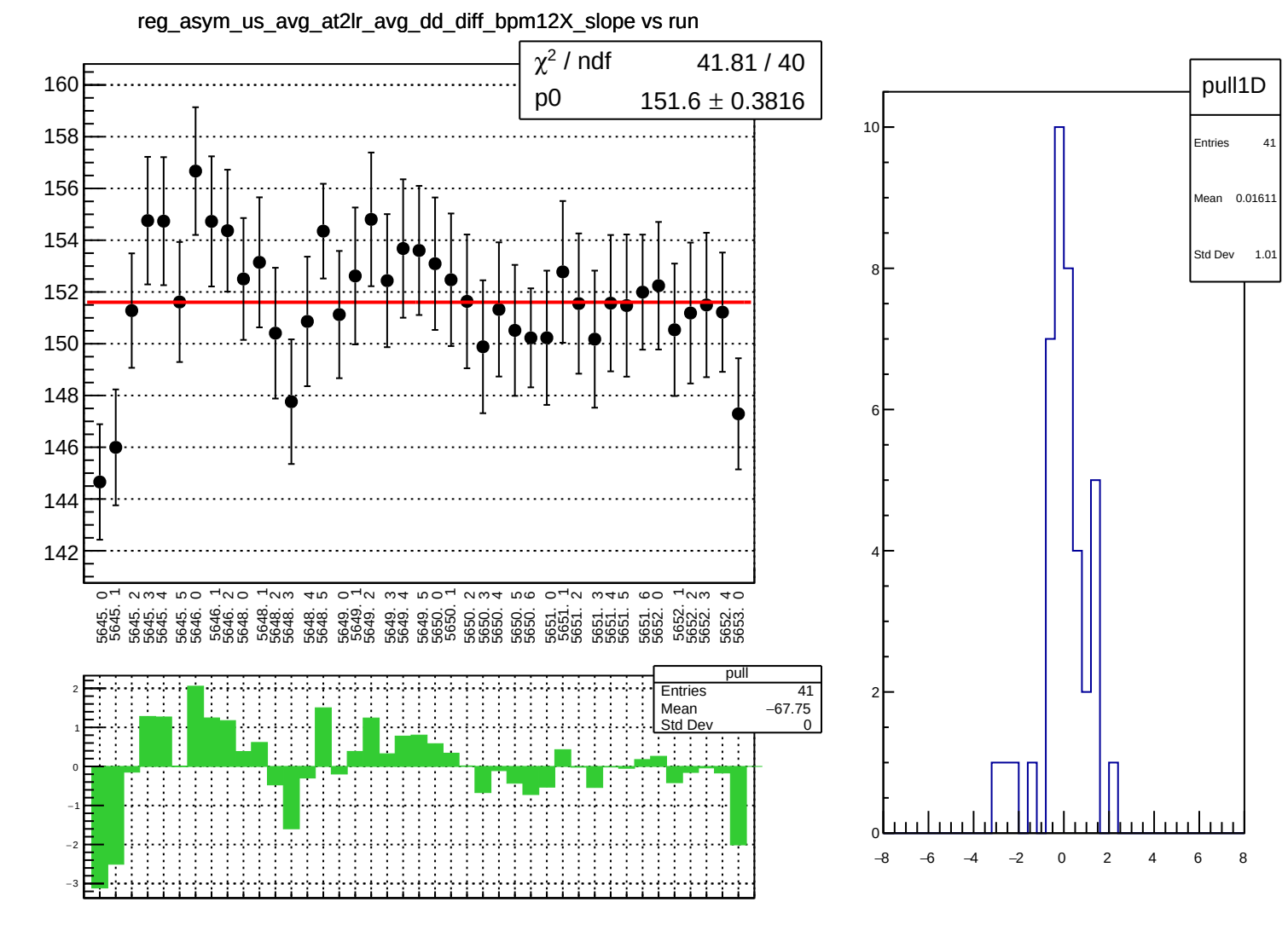

pull1D
Entries 41
Mean −0.01394
Std Dev 0.3247

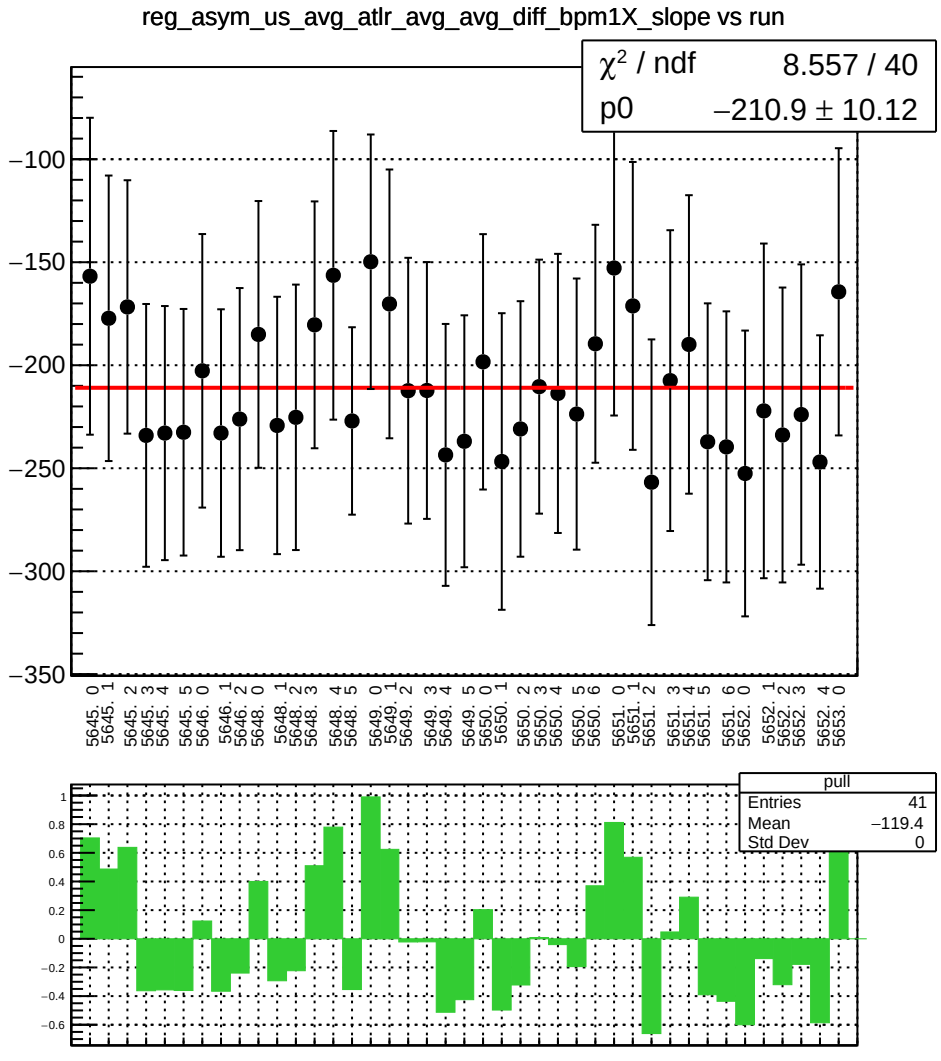

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.465 / 40
p0 −31.59 ± 8.844
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 24.88
Std Dev 14.65
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 41
Mean −0.0391
Std Dev 0.2421
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

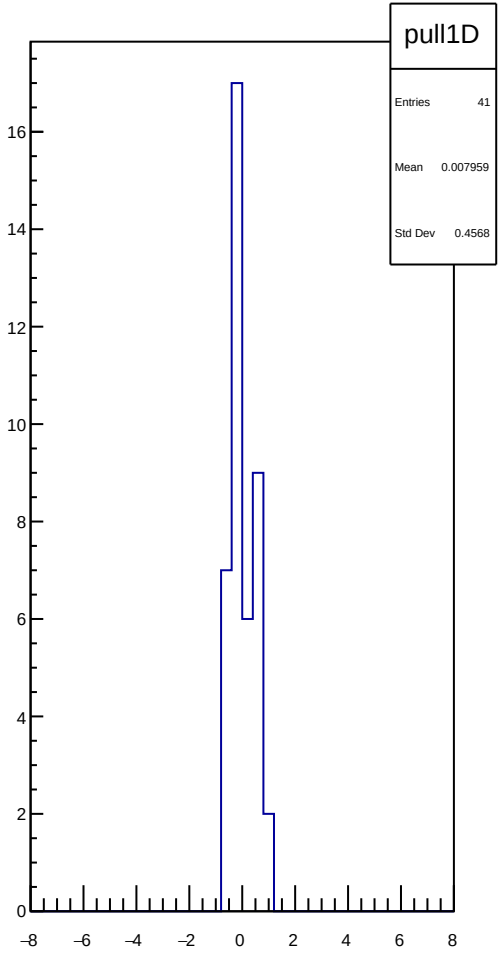

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.596 / 40
p0 −236.1 ± 9.291
−100
−150
−200
−250
−300
−350
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 28.09
Std Dev 29.57
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 41
Mean 0.01498
Std Dev 0.3345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

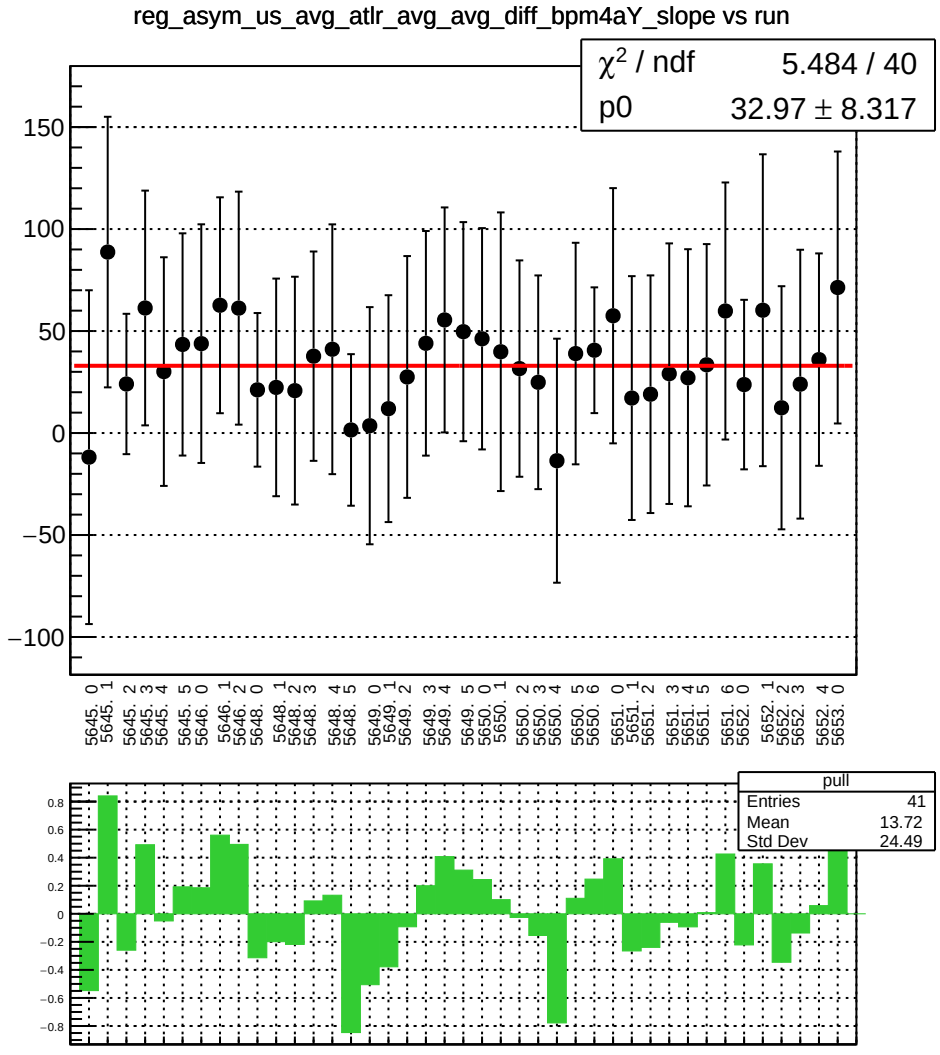

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.359 / 40
p0 −41.19 ± 11.13
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 29.31
Std Dev 12.1
0.4
0.2
0
−0.2
−0.4
−0.6

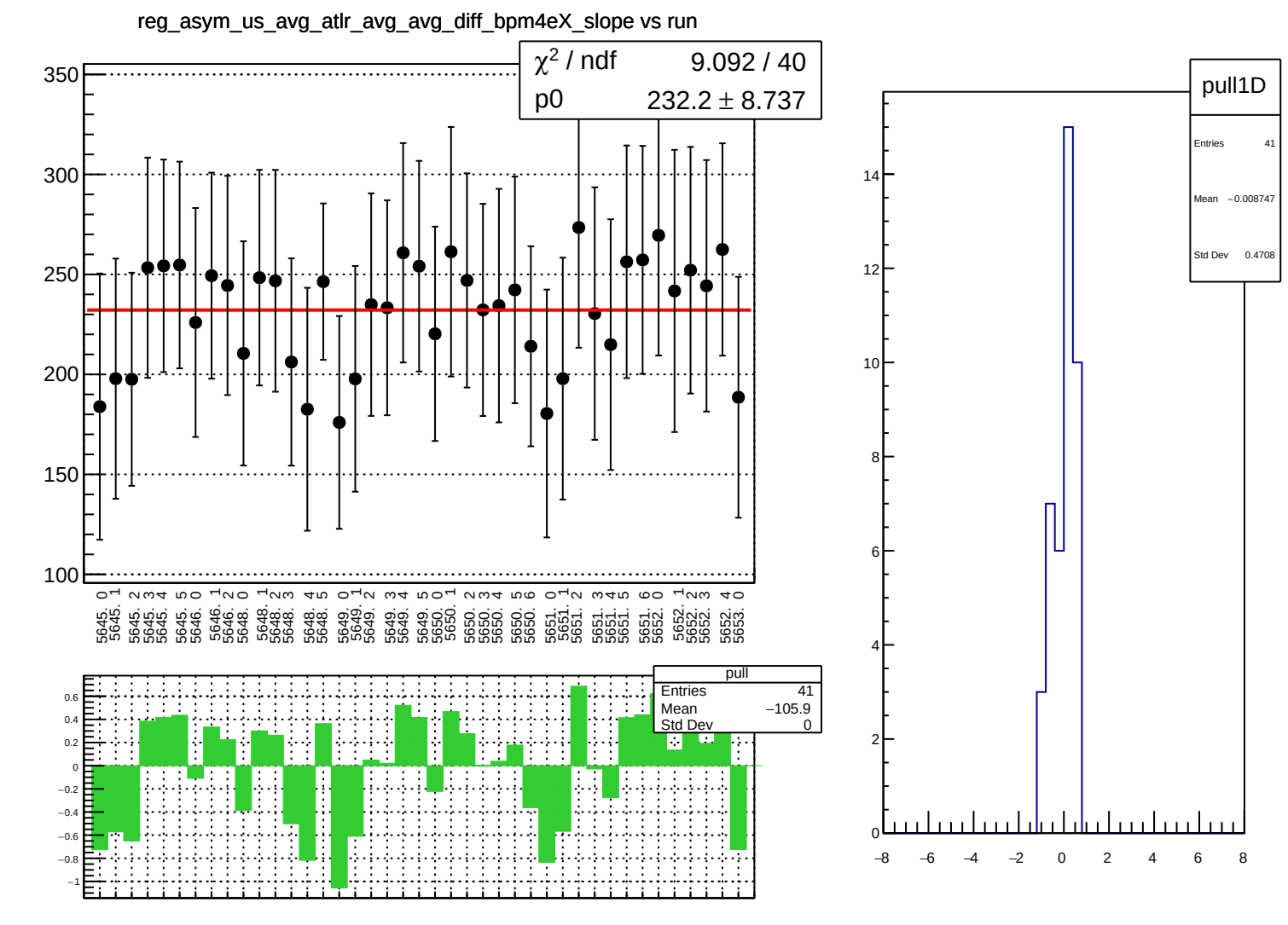

pull1D
Entries 41
Mean 0.03574
Std Dev 0.2372
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

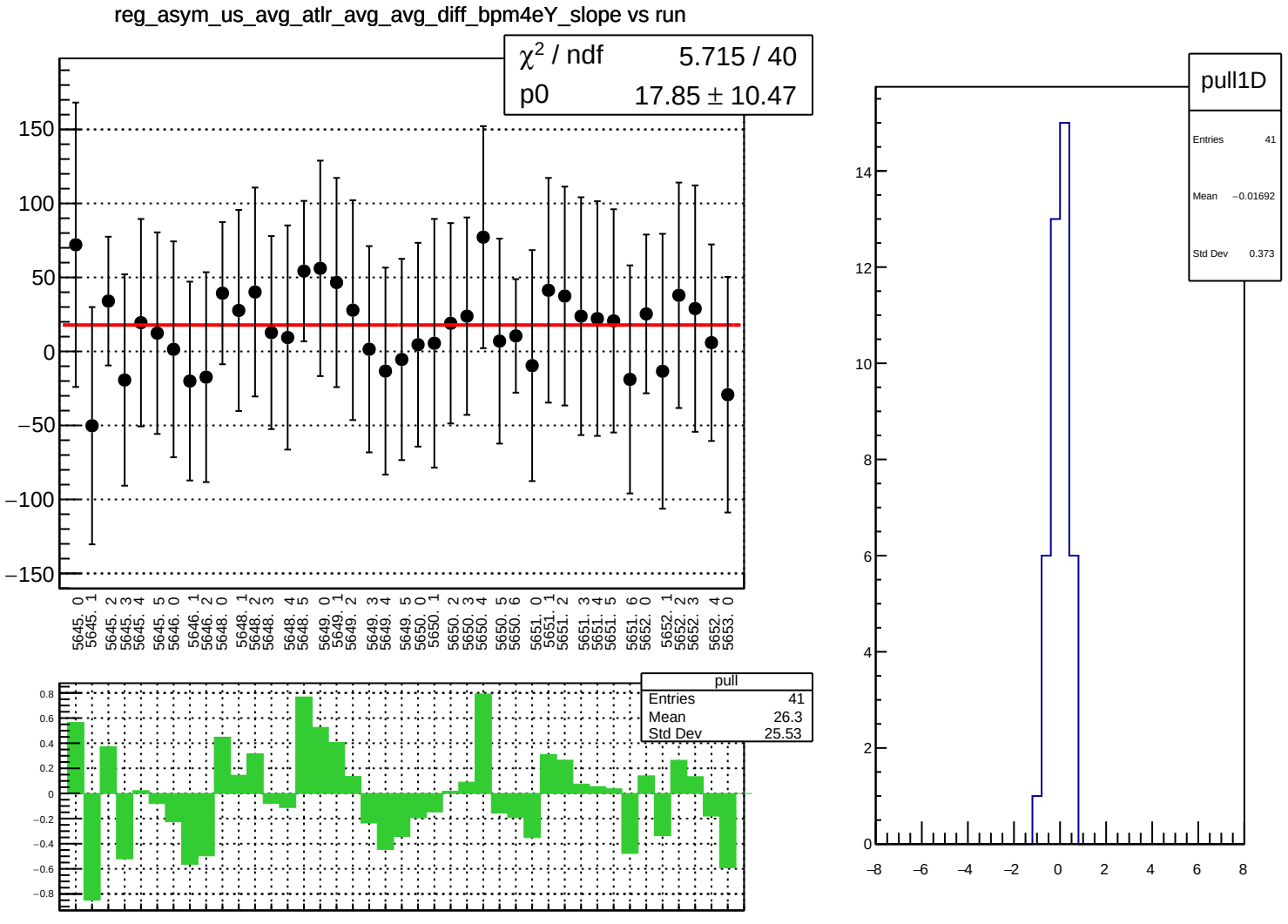

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 41.81 / 40
p0 151.6 ± 0.3816
160
158
156
154
152
150
148
146
144
142
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −67.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.01611
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

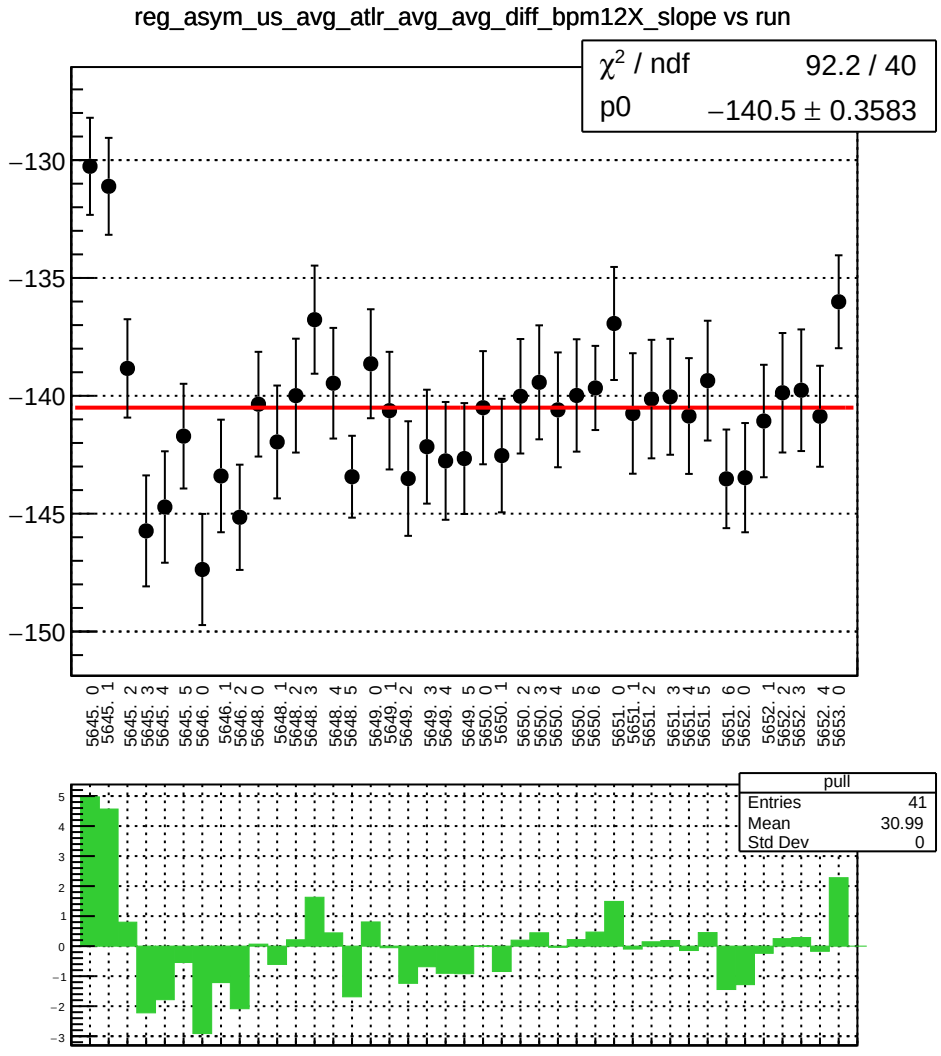

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.557 / 40
p0 −210.9 ± 10.12
pull
Entries 41
Mean −119.4
Std Dev 0

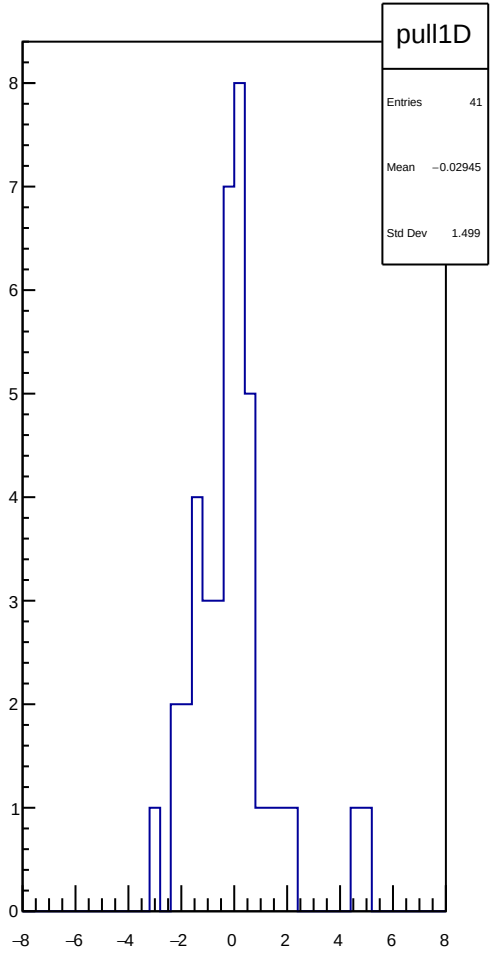

pull1D
Entries 41
Mean 0.007959
Std Dev 0.4568

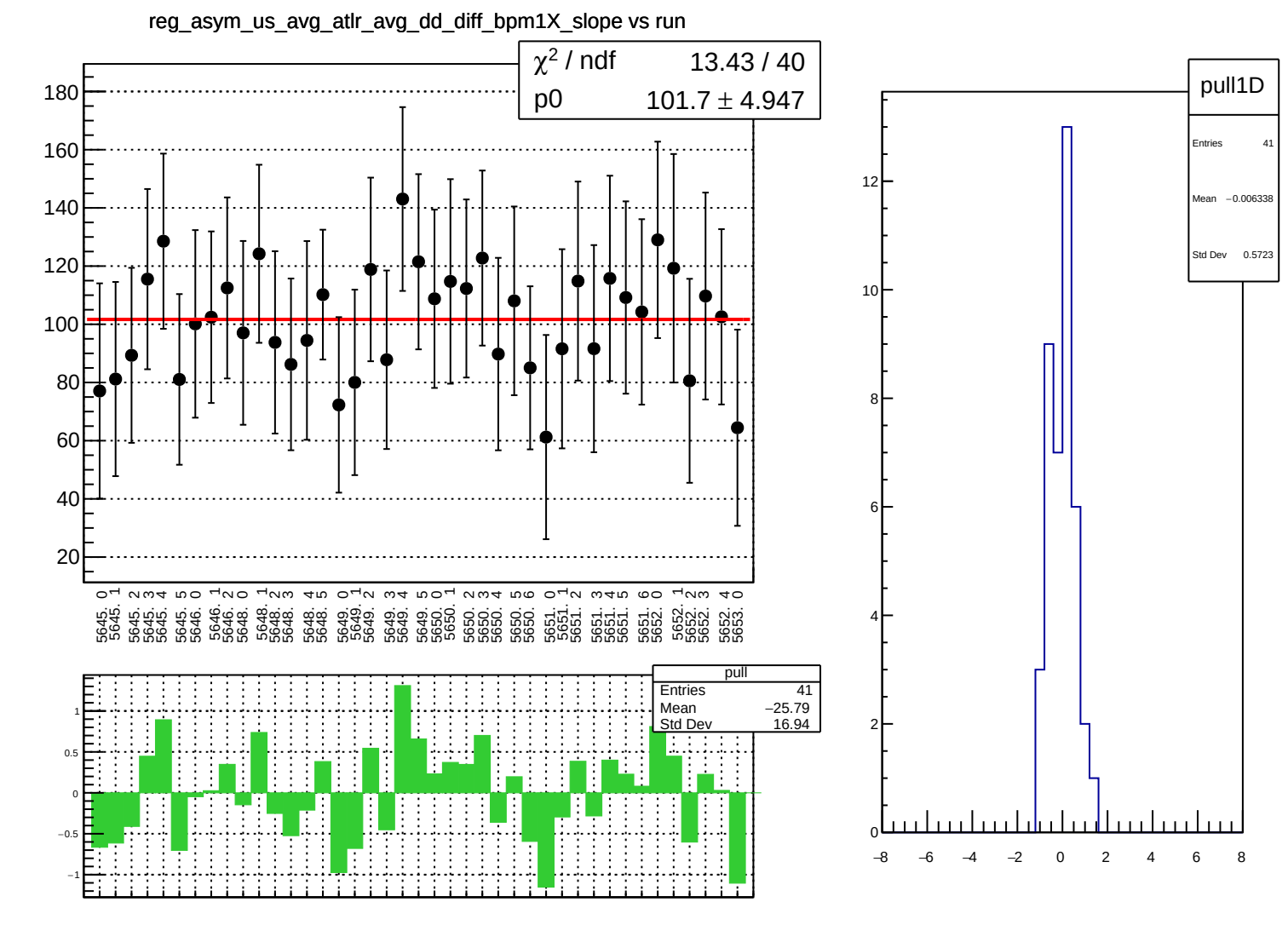

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.484 / 40
p0 32.97 ± 8.317
150
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 13.72
Std Dev 24.49
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean 0.01699
Std Dev 0.3653
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

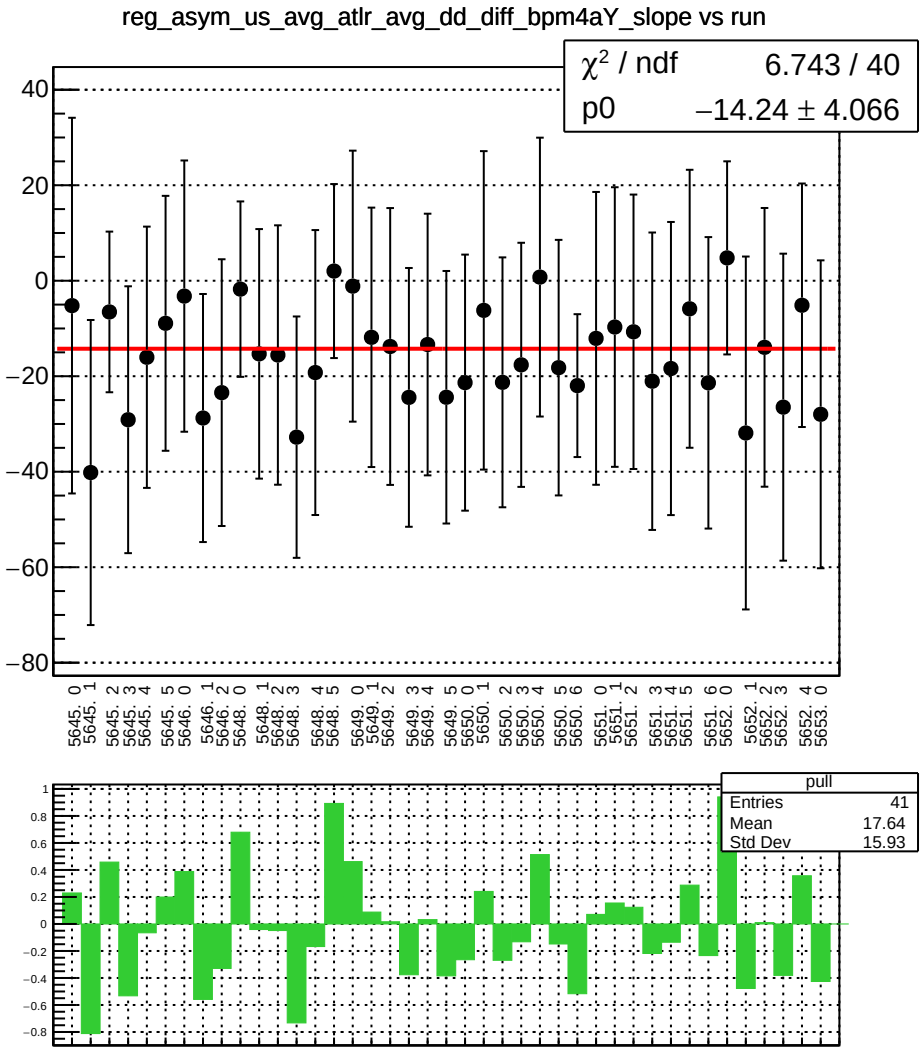

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.092 / 40
p0 232.2 ± 8.737
pull
Entries 41
Mean −105.9
Std Dev 0
pull1D
Entries 41
Mean −0.008747
Std Dev 0.4708

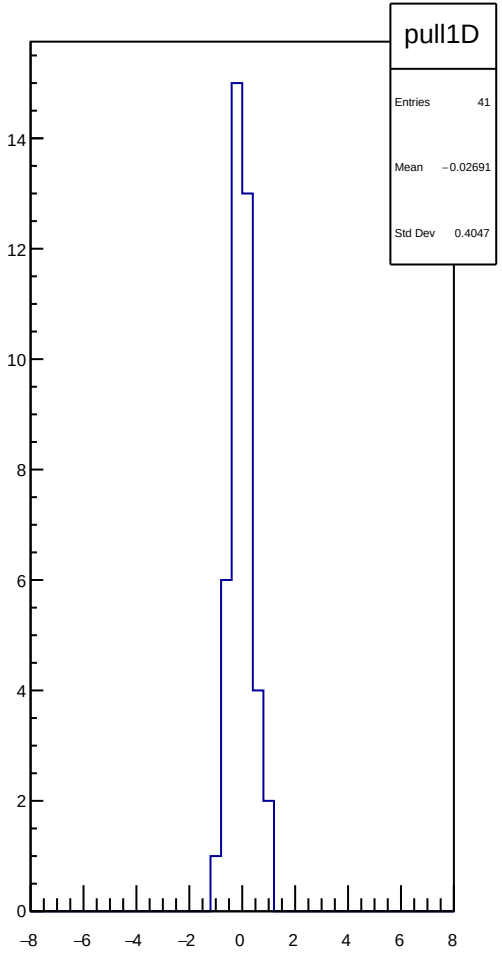

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.715 / 40
p0 17.85 ± 10.47
150
100
50
0
−50
−100
−150
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 26.3
Std Dev 25.53
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 41
Mean −0.01692
Std Dev 0.373
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

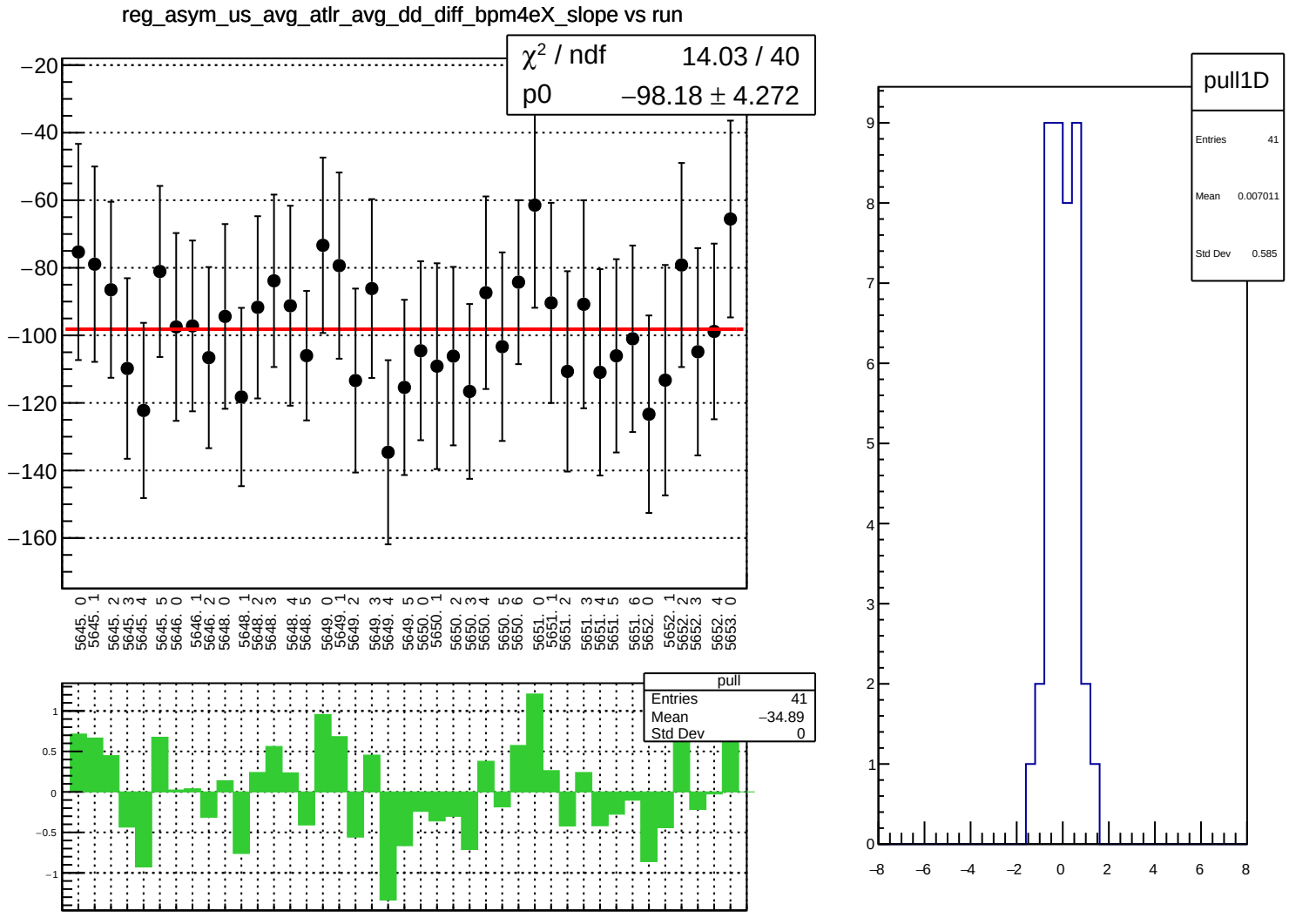

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 92.2 / 40
p0 −140.5 ± 0.3583
−130
−135
−140
−145
−150
pull
Entries 41
Mean 30.99
Std Dev 0

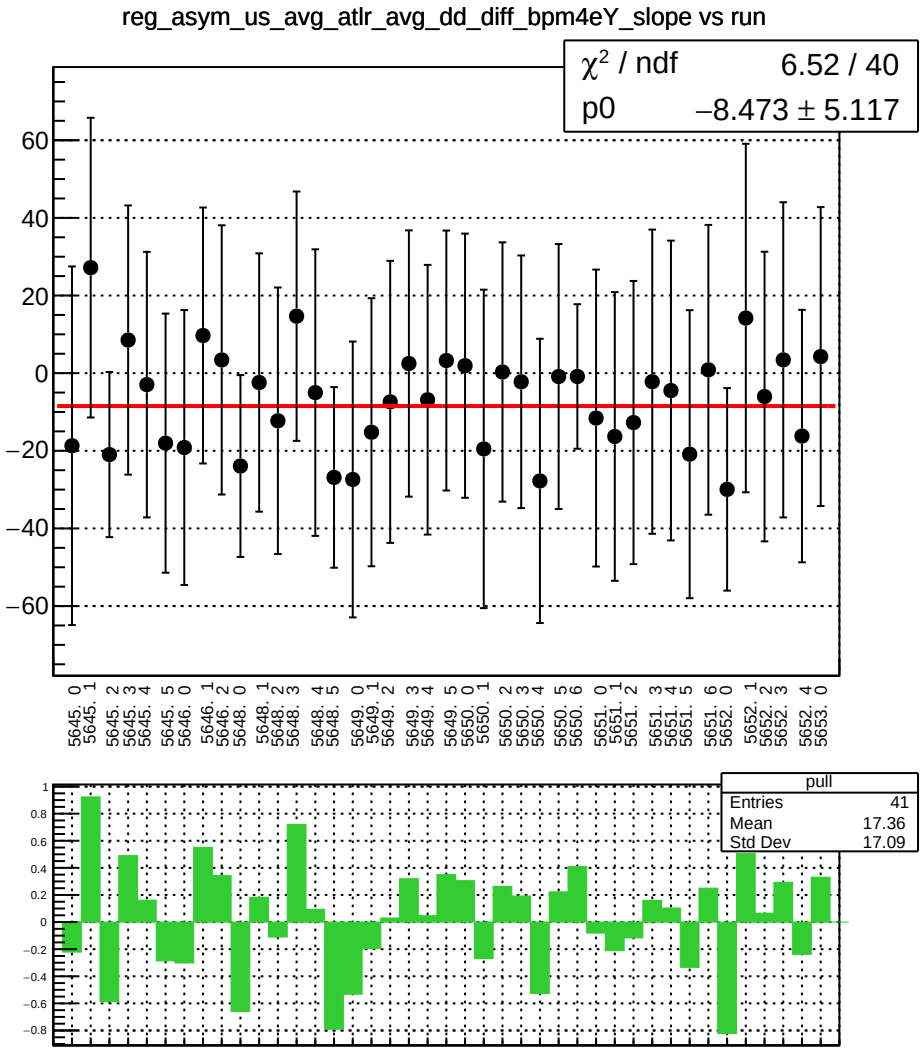

pull1D
Entries 41
Mean −0.02945
Std Dev 1.499

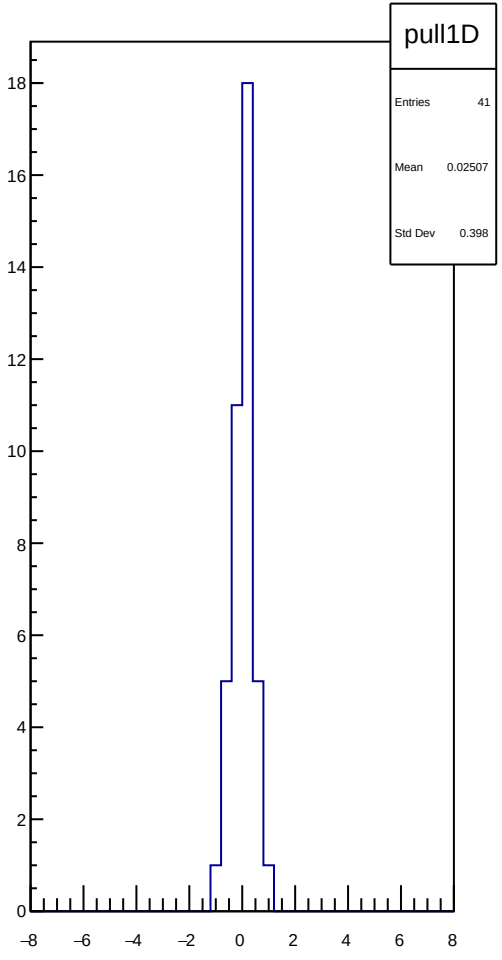

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 13.43 / 40
p0 101.7 ± 4.947
pull
Entries 41
Mean −25.79
Std Dev 16.94
pull1D
Entries 41
Mean −0.006338
Std Dev 0.5723

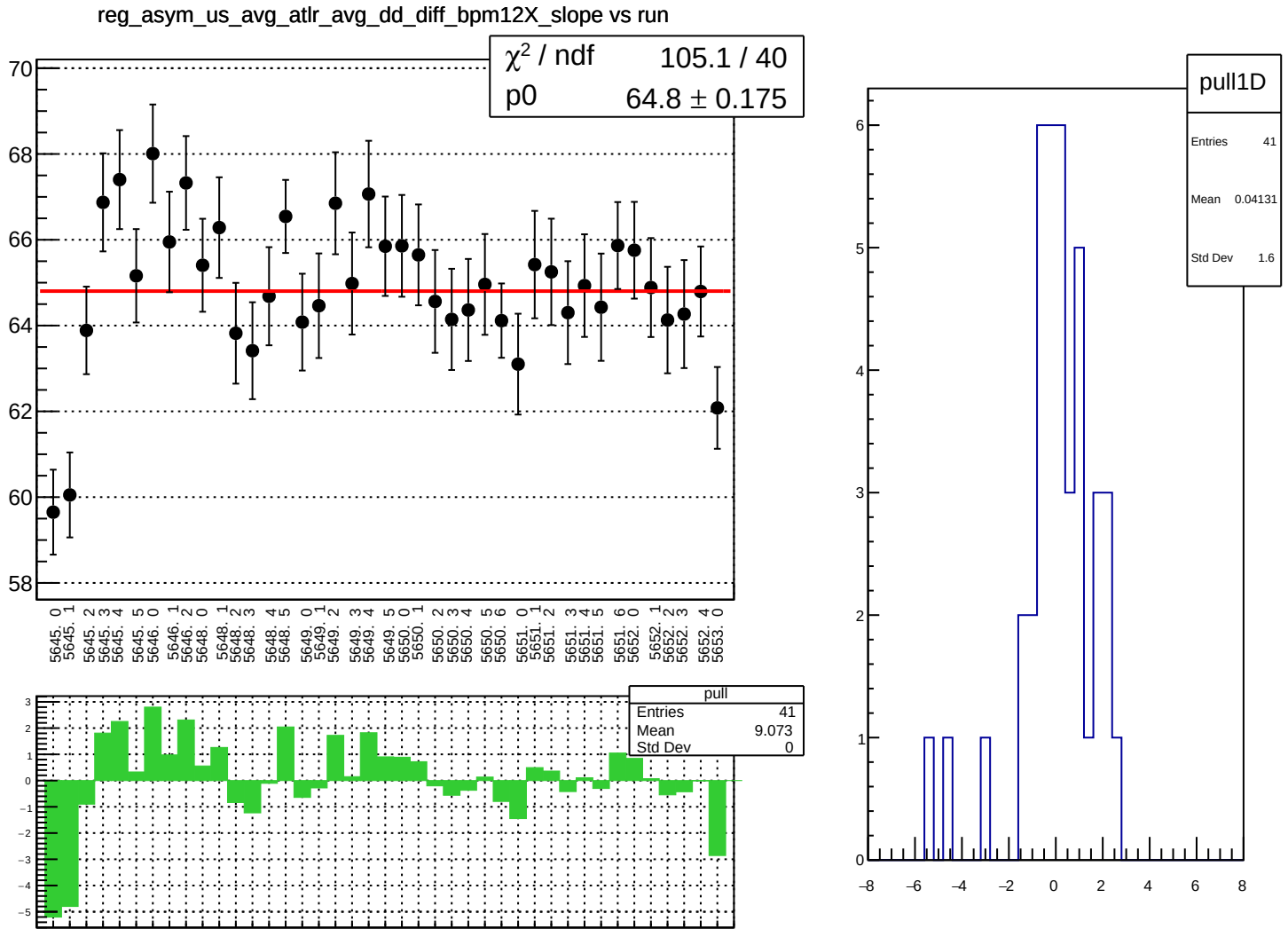

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.743 / 40
p0 −14.24 ± 4.066
pull
Entries 41
Mean 17.64
Std Dev 15.93

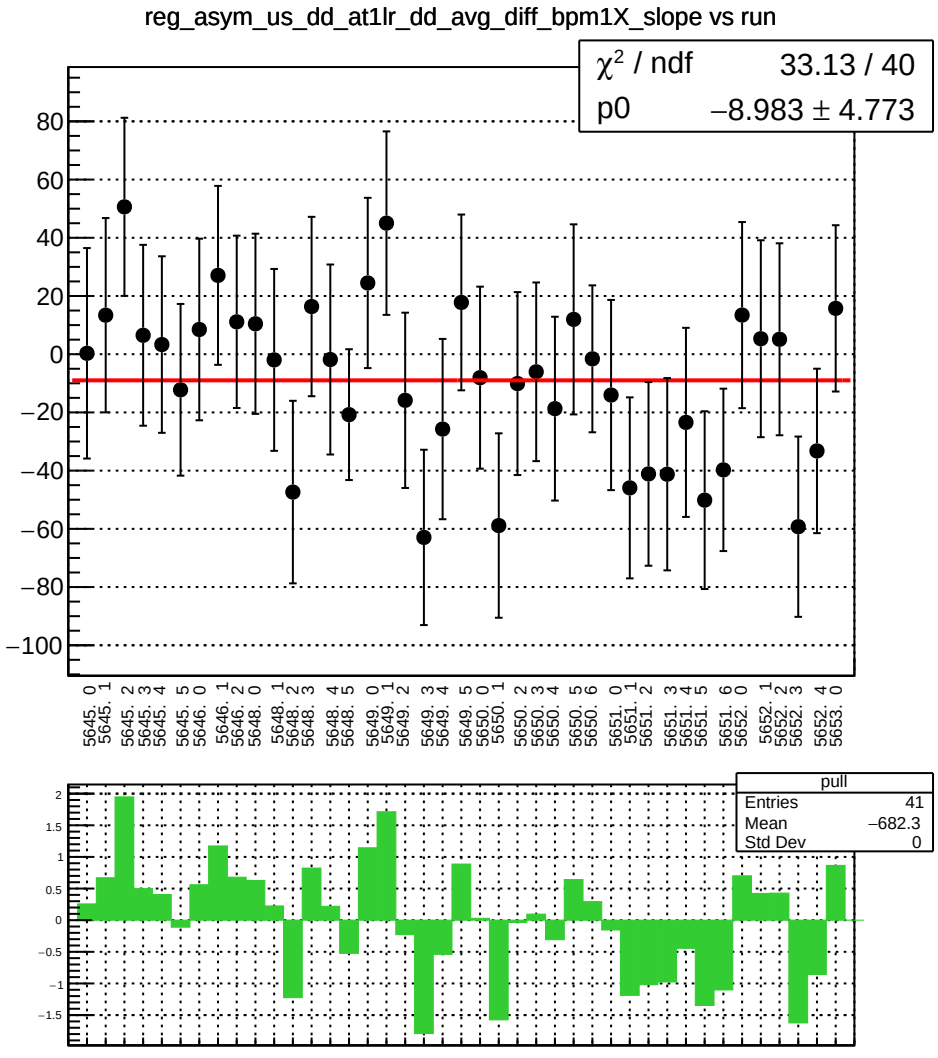

pull1D
Entries 41
Mean −0.02691
Std Dev 0.4047

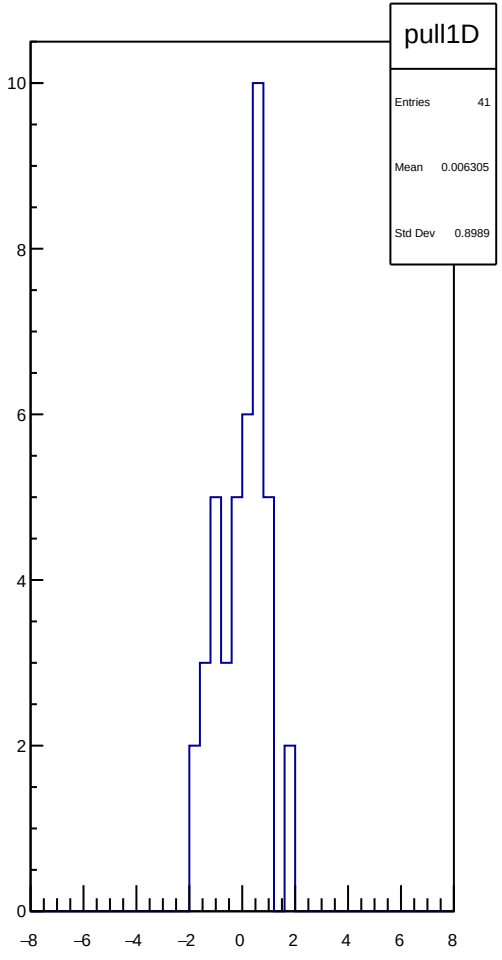

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.03 / 40
p0 −98.18 ± 4.272
pull
Entries 41
Mean −34.89
Std Dev 0
pull1D
Entries 41
Mean 0.007011
Std Dev 0.585

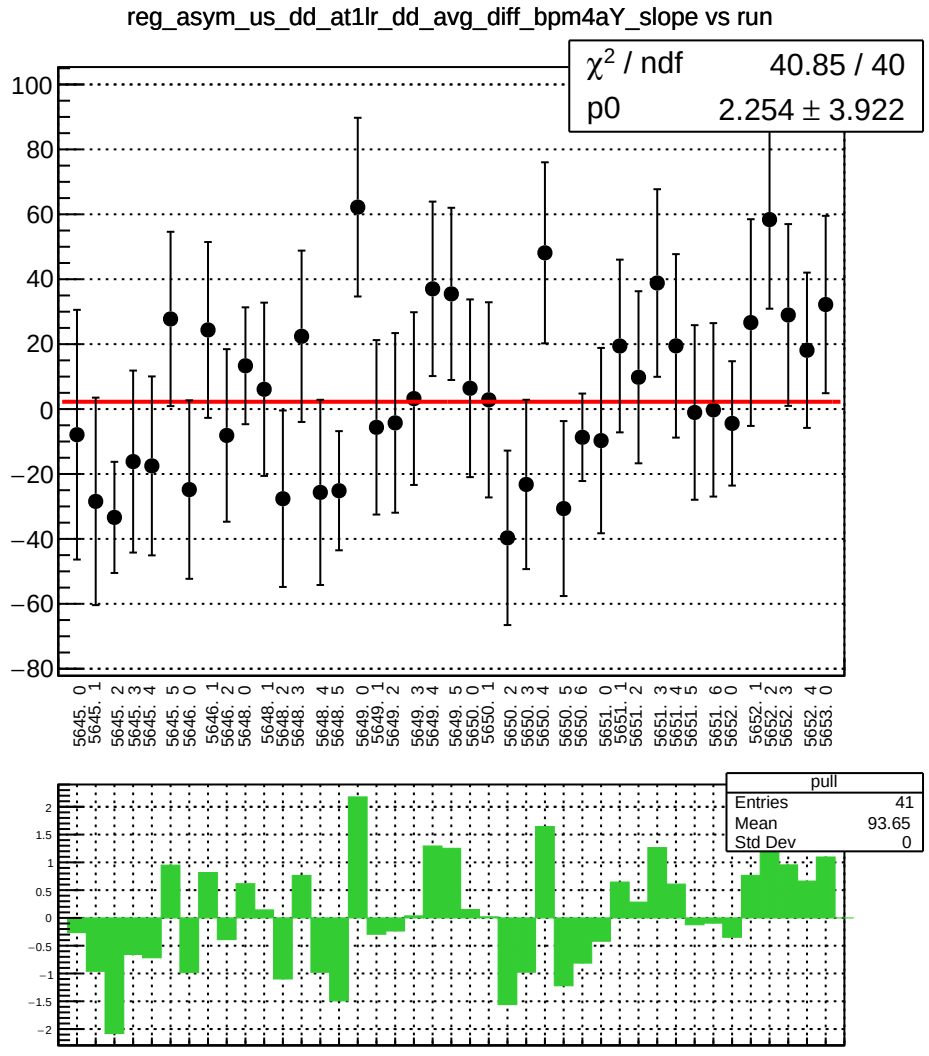

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.52 / 40
p0 −8.473 ± 5.117
pull
Entries 41
Mean 17.36
Std Dev 17.09

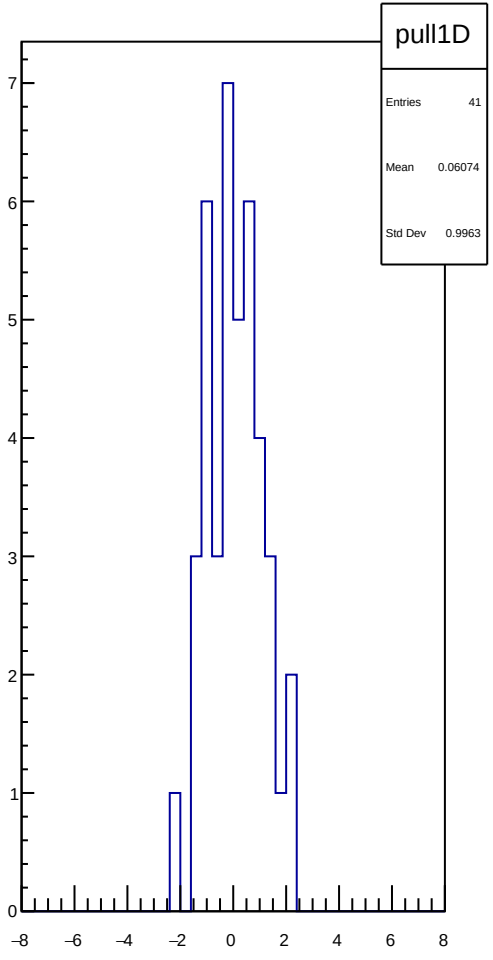

pull1D
Entries 41
Mean 0.02507
Std Dev 0.398

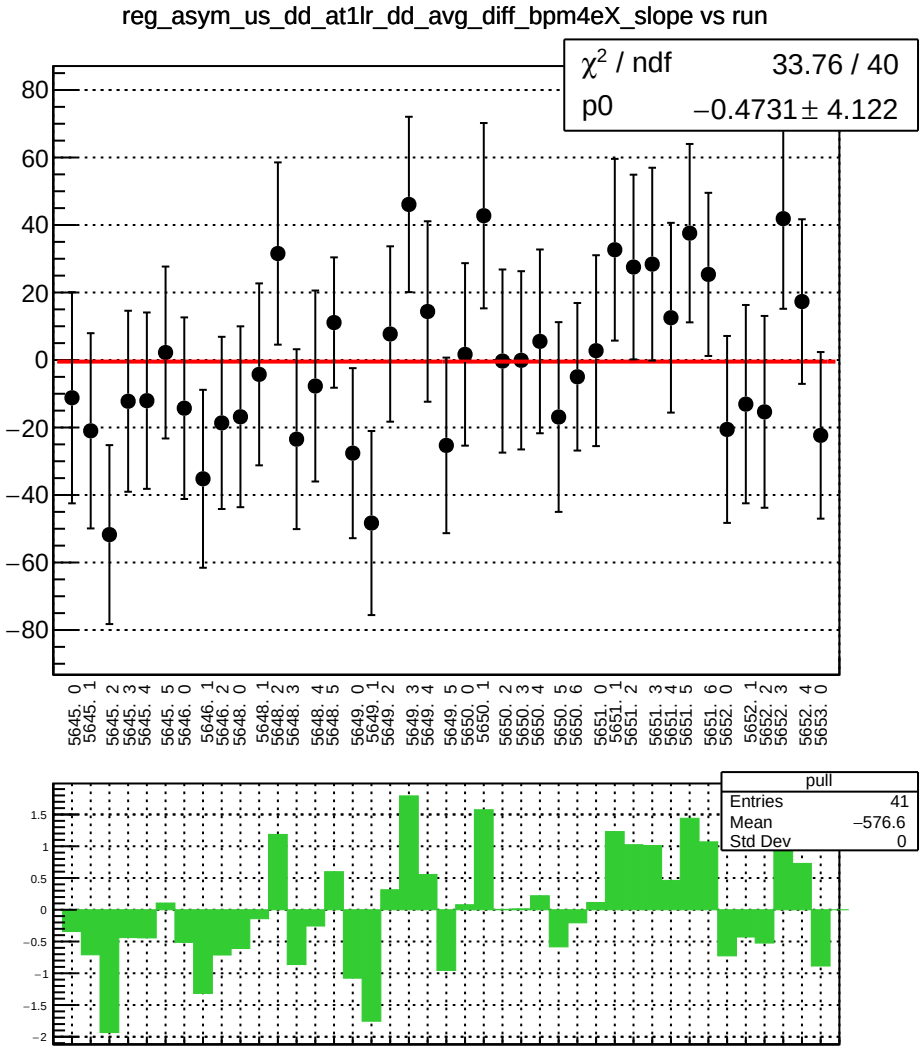

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 105.1 / 40
p0 64.8 ± 0.175
70
68
66
64
62
60
58
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 9.073
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 41
Mean 0.04131
Std Dev 1.6
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

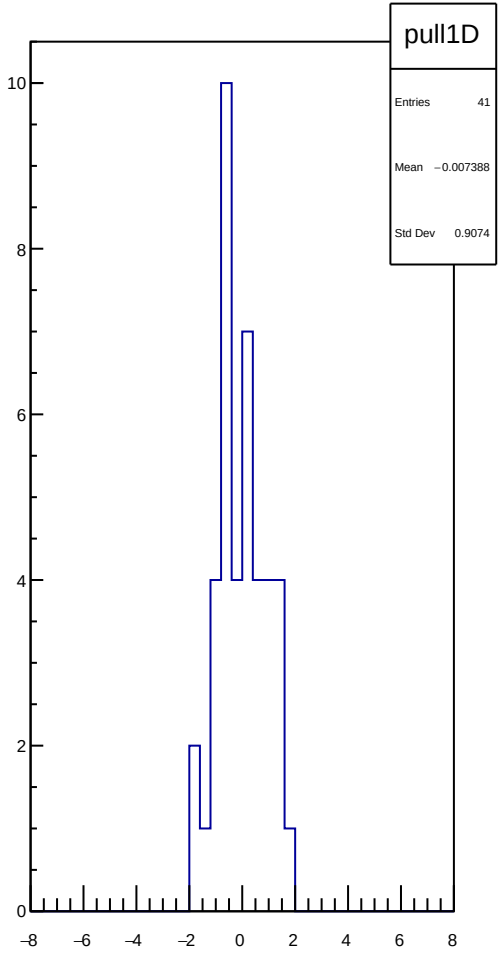

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.13 / 40
p0 −8.983 ± 4.773
pull
Entries 41
Mean −682.3
Std Dev 0

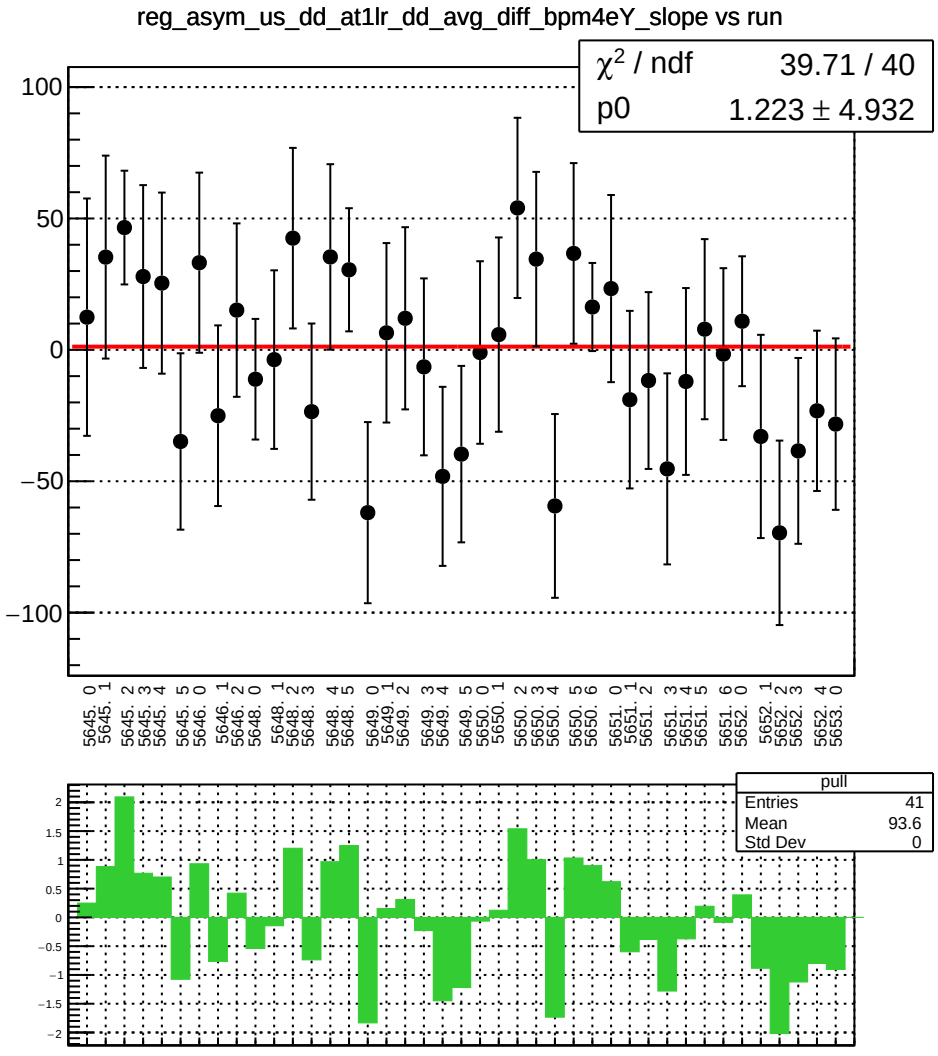

pull1D
Entries 41
Mean 0.006305
Std Dev 0.8989

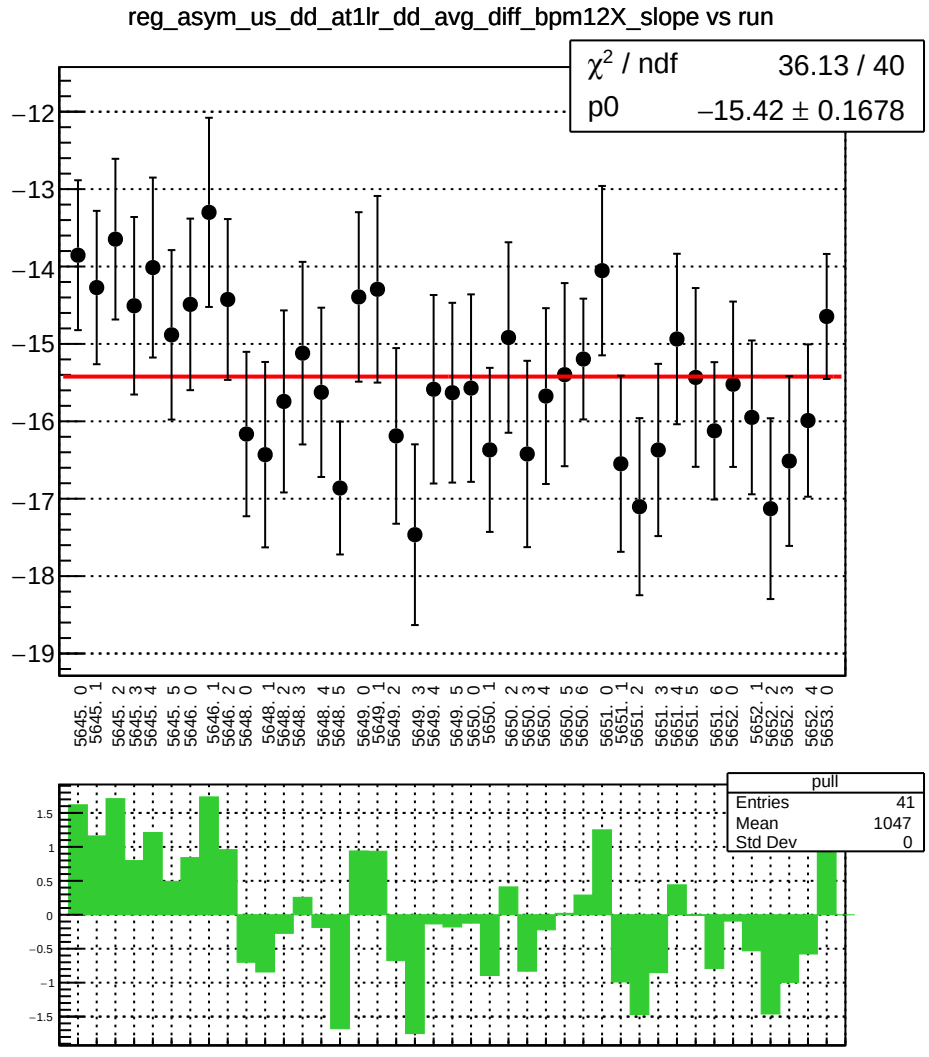

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.85 / 40
p0 2.254 ± 3.922
pull
Entries 41
Mean 93.65
Std Dev 0

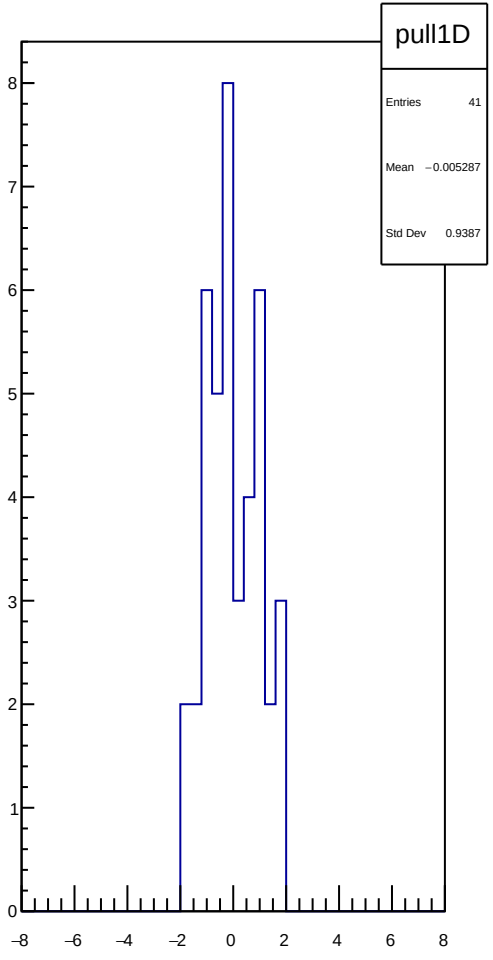

pull1D
Entries 41
Mean 0.06074
Std Dev 0.9963

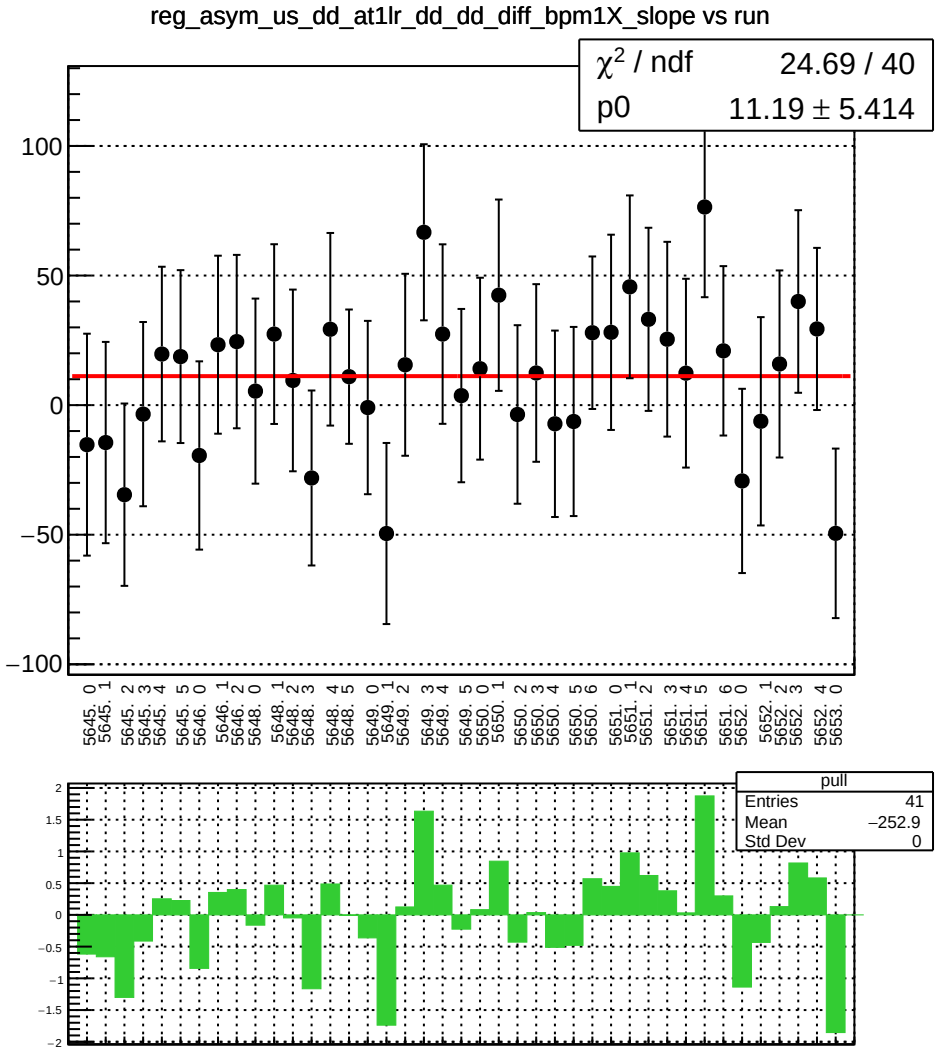

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.76 / 40
p0 −0.4731 ± 4.122
pull
Entries 41
Mean −576.6
Std Dev 0

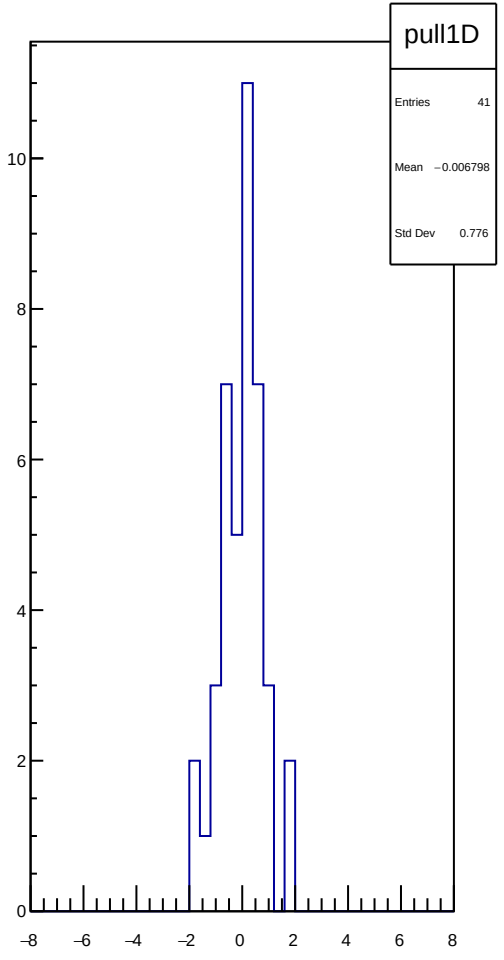

pull1D
Entries 41
Mean −0.007388
Std Dev 0.9074

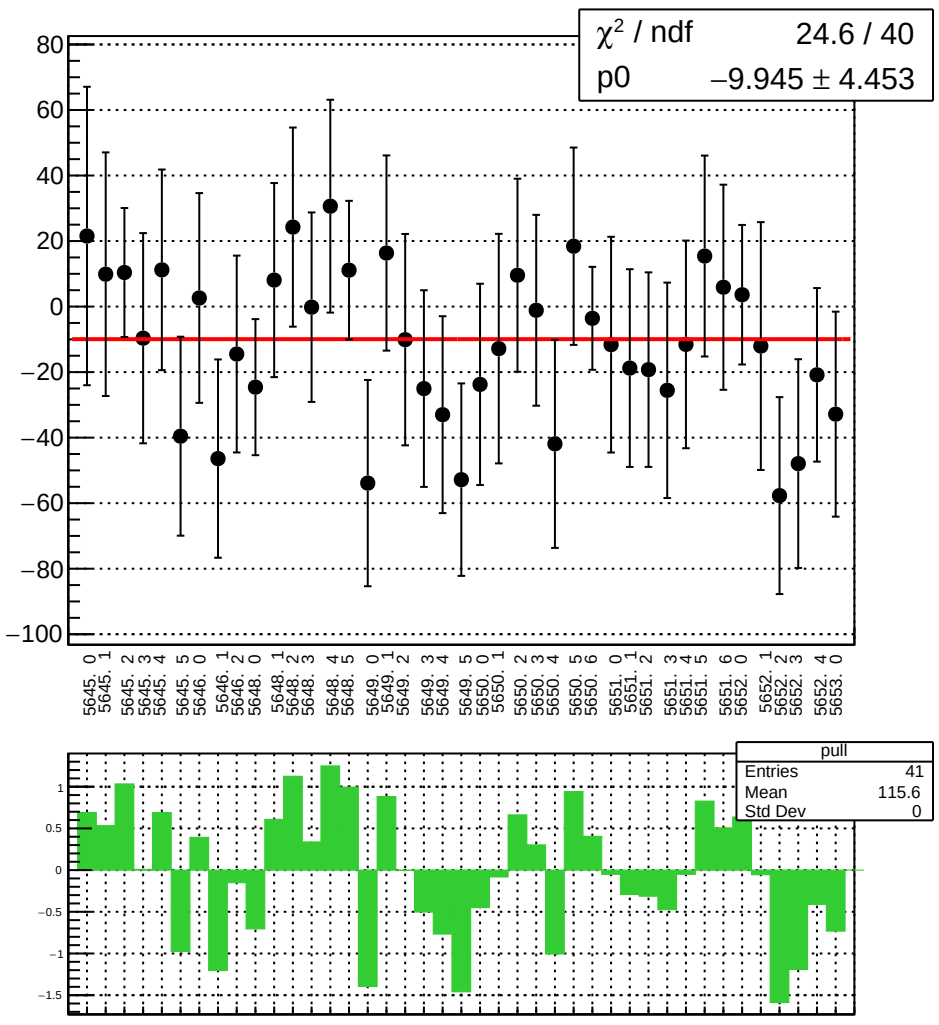

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.71 / 40
p0 1.223 ± 4.932
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 93.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 41
Mean −0.06102
Std Dev 0.9823
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

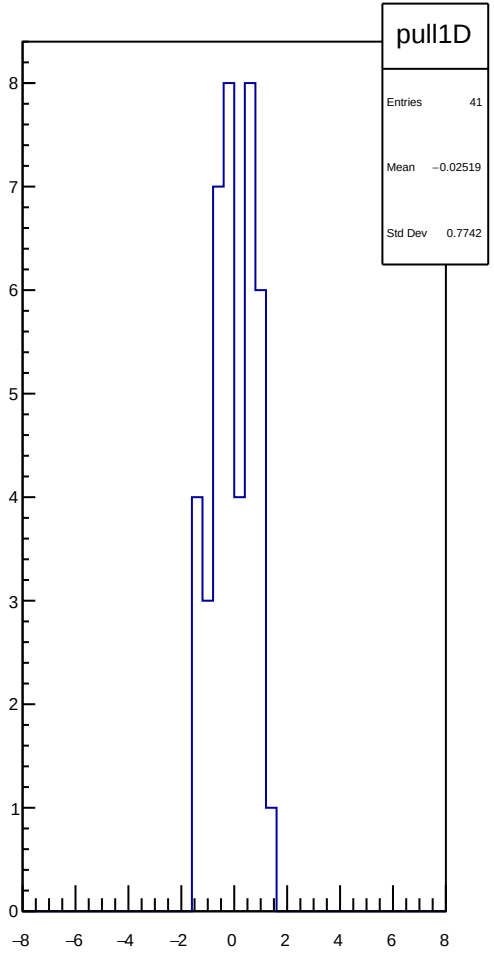

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 36.13 / 40
p0 −15.42 ± 0.1678
pull
Entries 41
Mean 1047
Std Dev 0

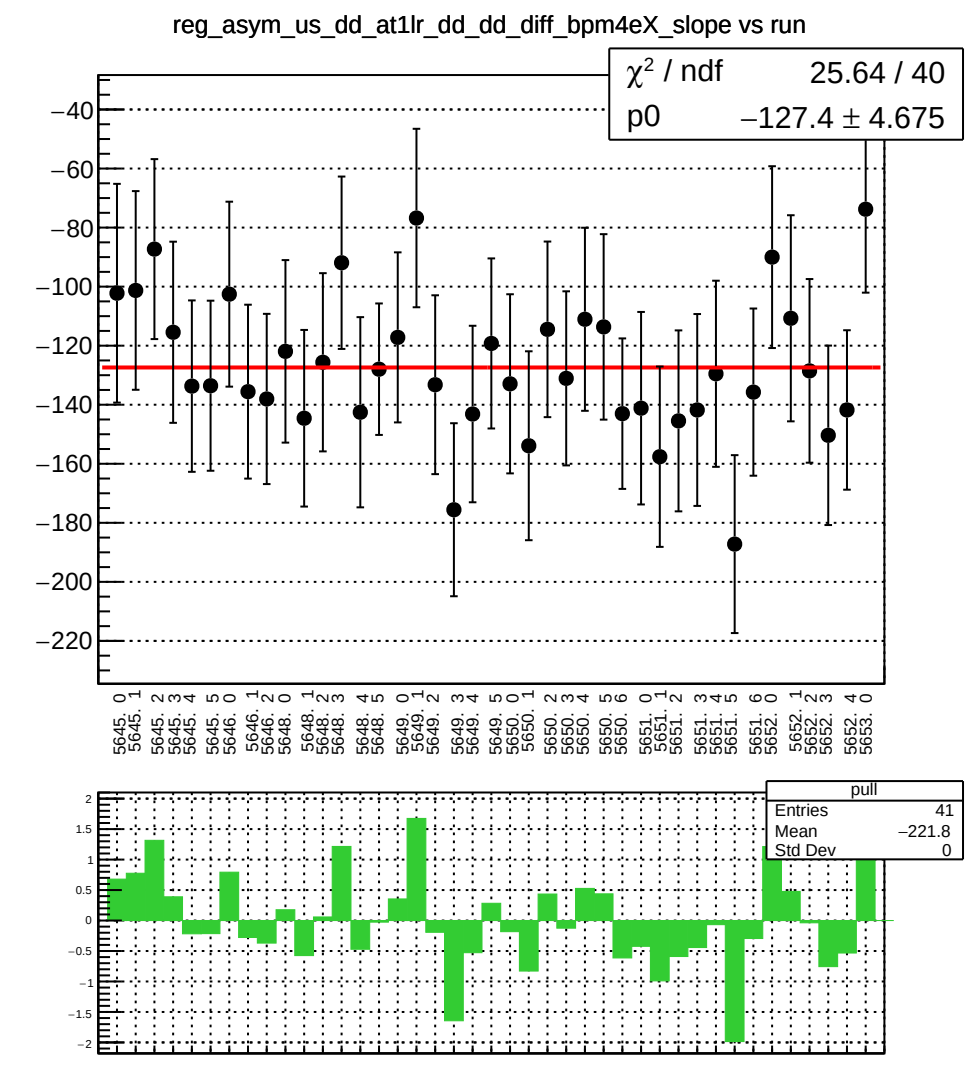

pull1D
Entries 41
Mean −0.005287
Std Dev 0.9387

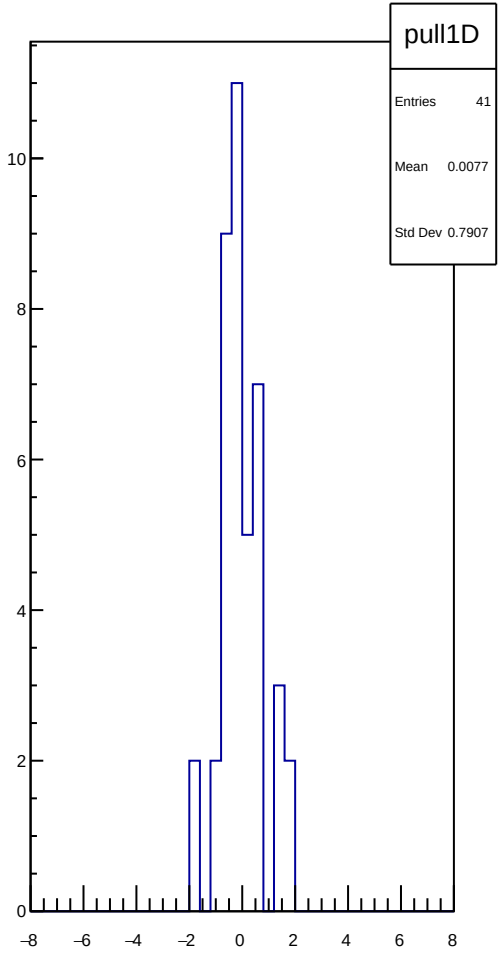

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 24.69 / 40
p0 11.19 ± 5.414
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −252.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

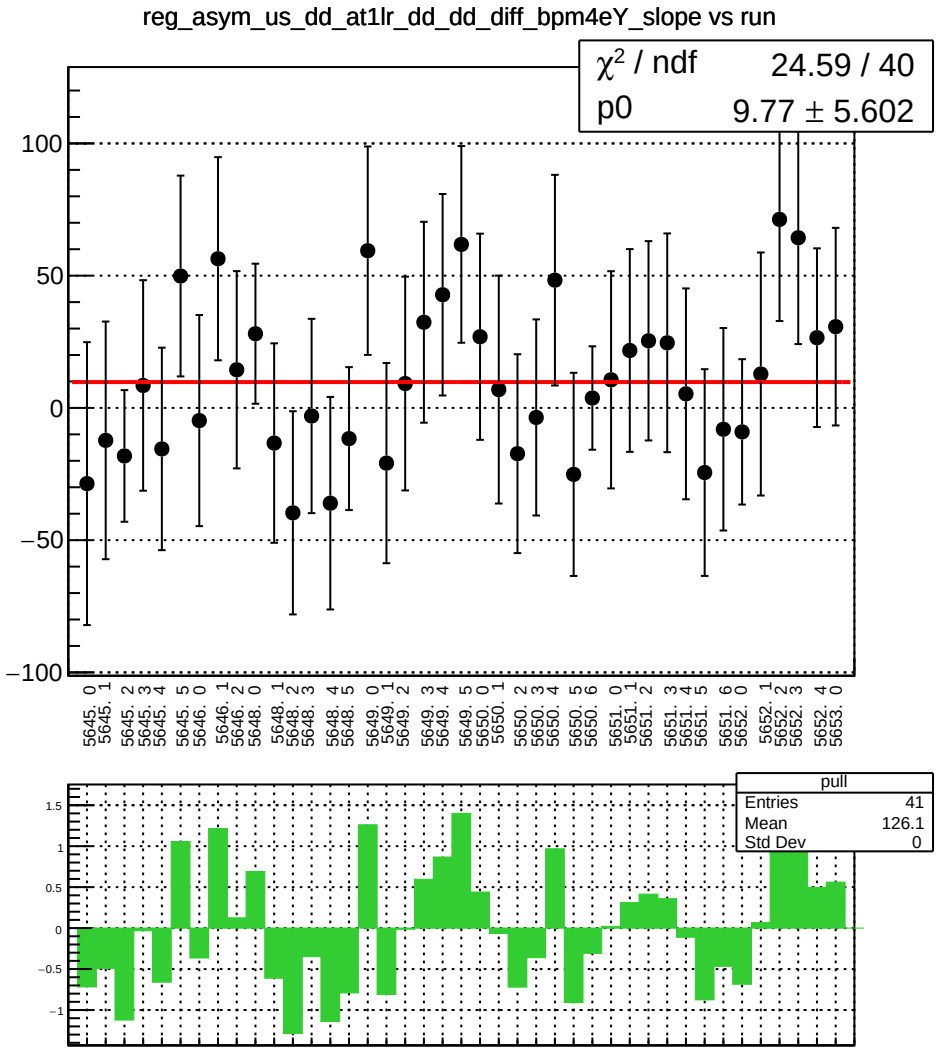

pull1D
Entries 41
Mean −0.006798
Std Dev 0.776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

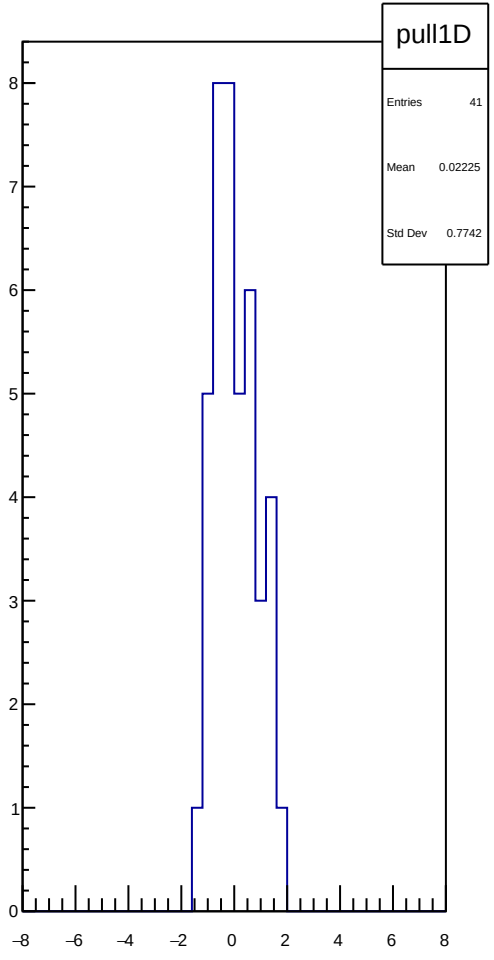

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.6 / 40
p0 −9.945 ± 4.453
pull
Entries 41
Mean 115.6
Std Dev 0

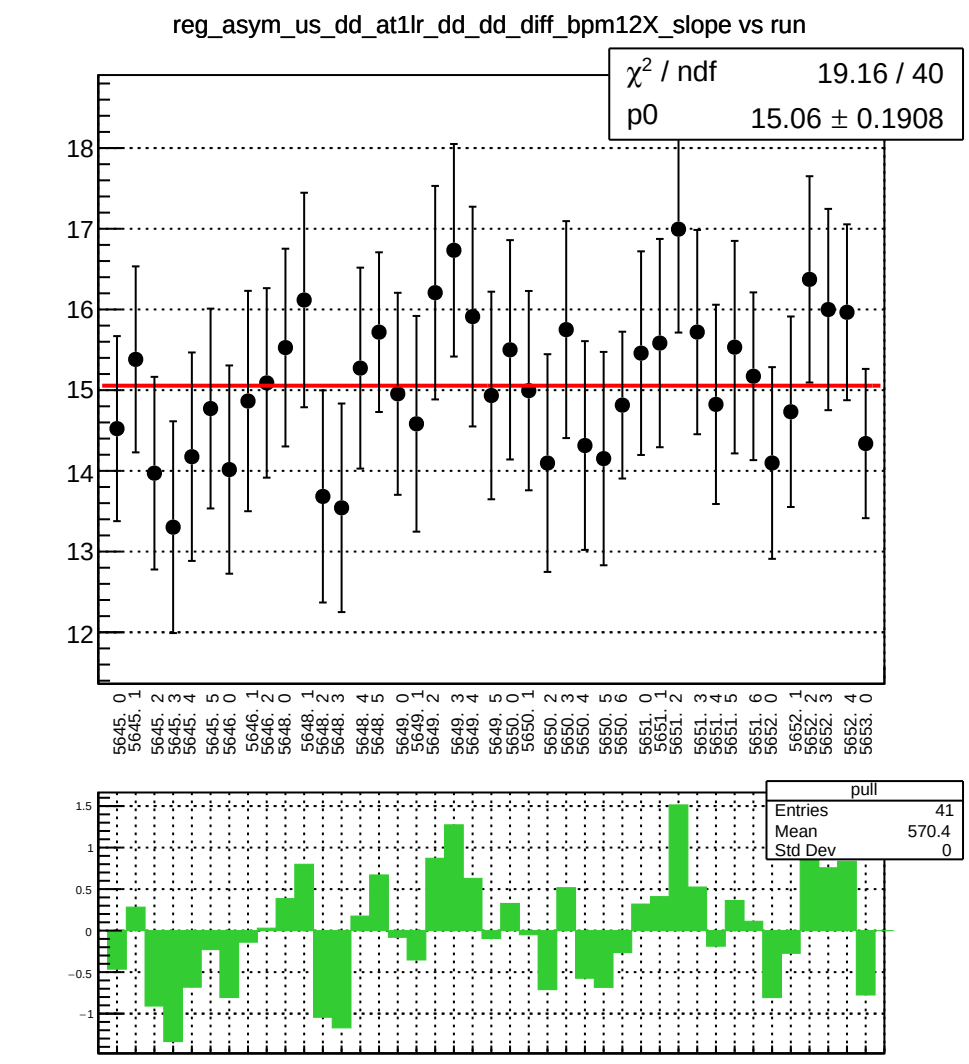

pull1D
Entries 41
Mean −0.02519
Std Dev 0.7742

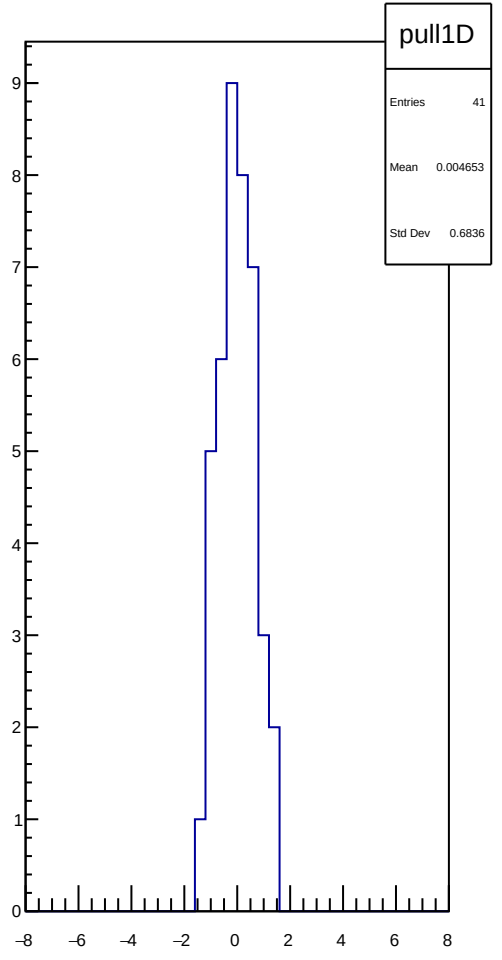

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.64 / 40
p0 −127.4 ± 4.675
pull
Entries 41
Mean −221.8
Std Dev 0

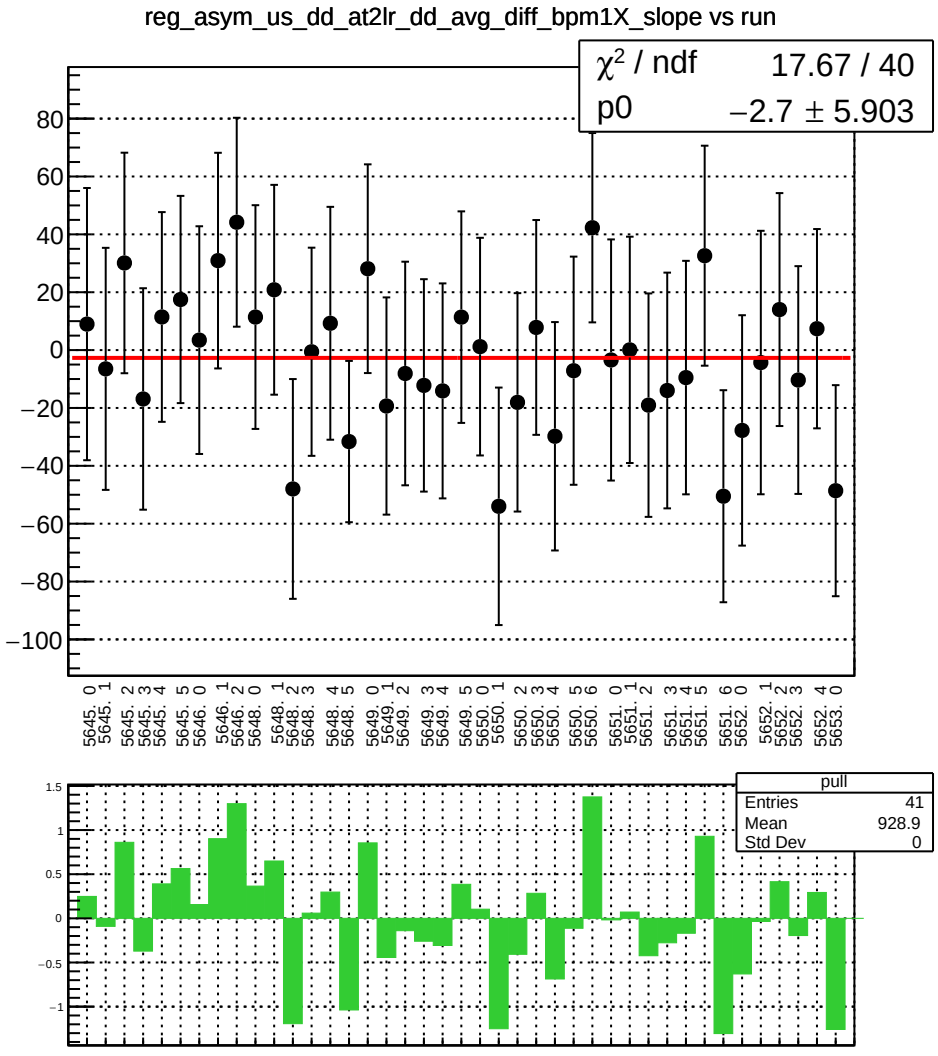

pull1D
Entries 41
Mean 0.0077
Std Dev 0.7907

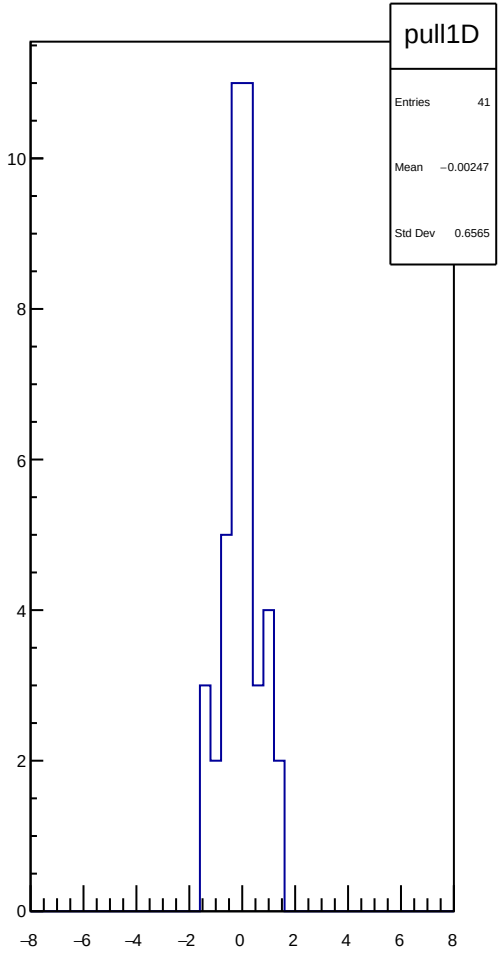

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.59 / 40
p0 9.77 ± 5.602
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 126.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

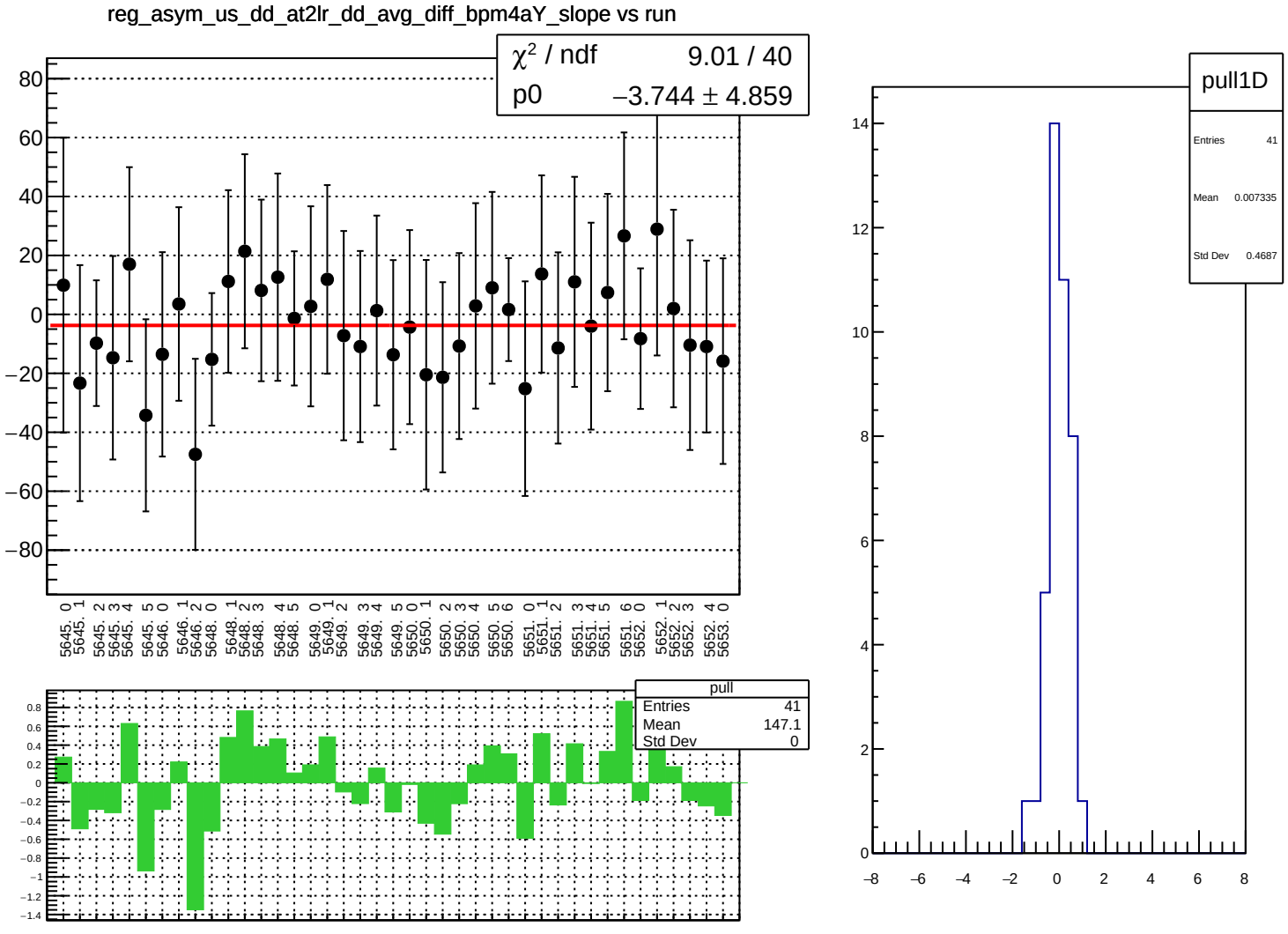

pull1D
Entries 41
Mean 0.02225
Std Dev 0.7742
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

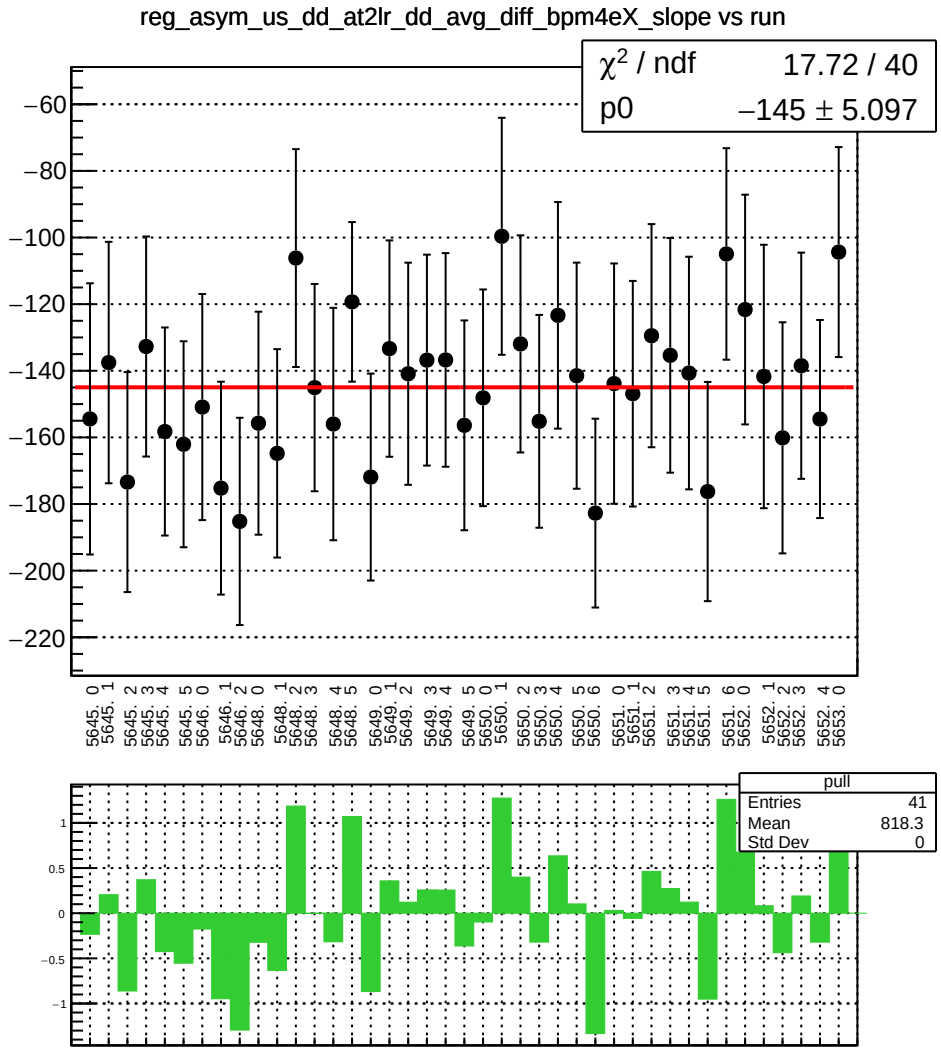

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 19.16 / 40
p0 15.06 ± 0.1908
pull
Entries 41
Mean 570.4
Std Dev 0

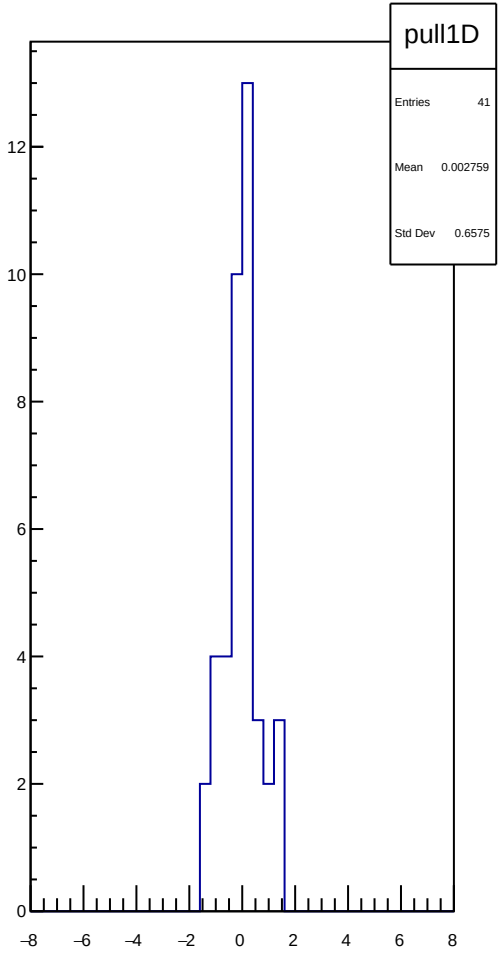

pull1D
Entries 41
Mean 0.004653
Std Dev 0.6836

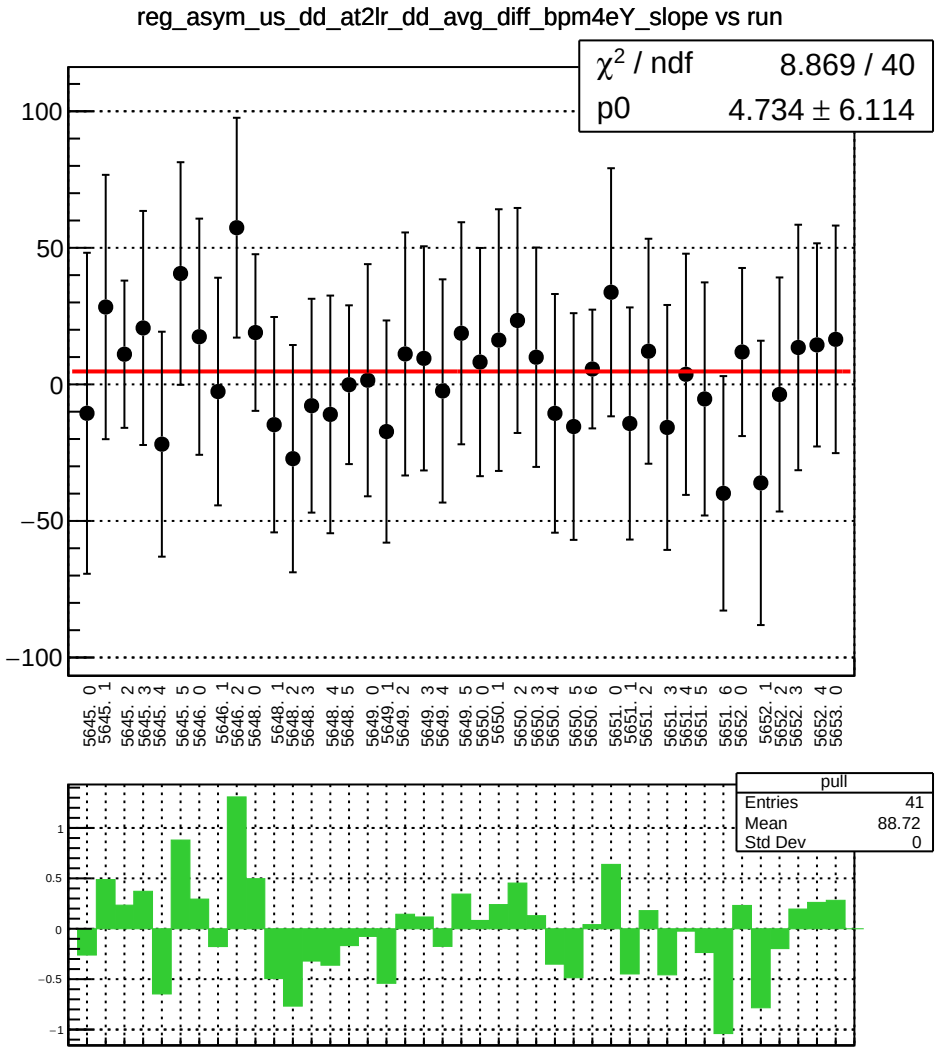

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 17.67 / 40
p0 −2.7 ± 5.903
pull
Entries 41
Mean 928.9
Std Dev 0

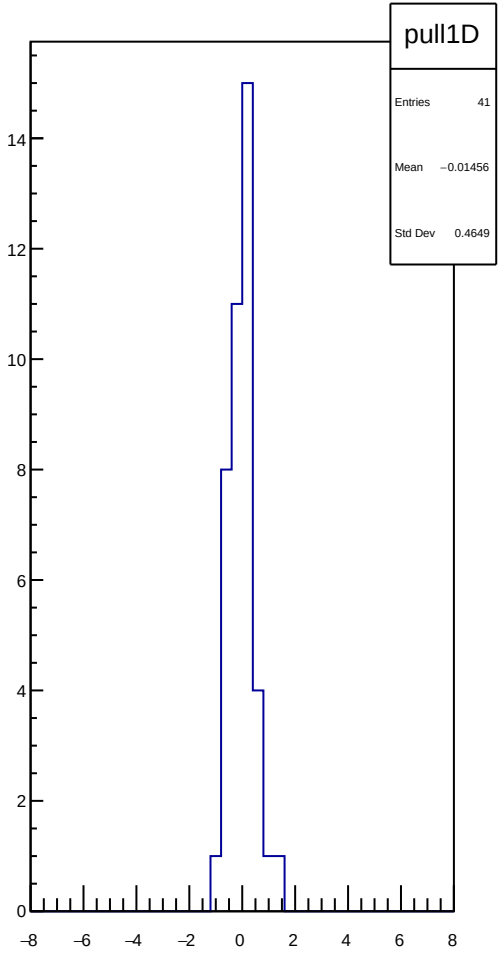

pull1D
Entries 41
Mean −0.00247
Std Dev 0.6565

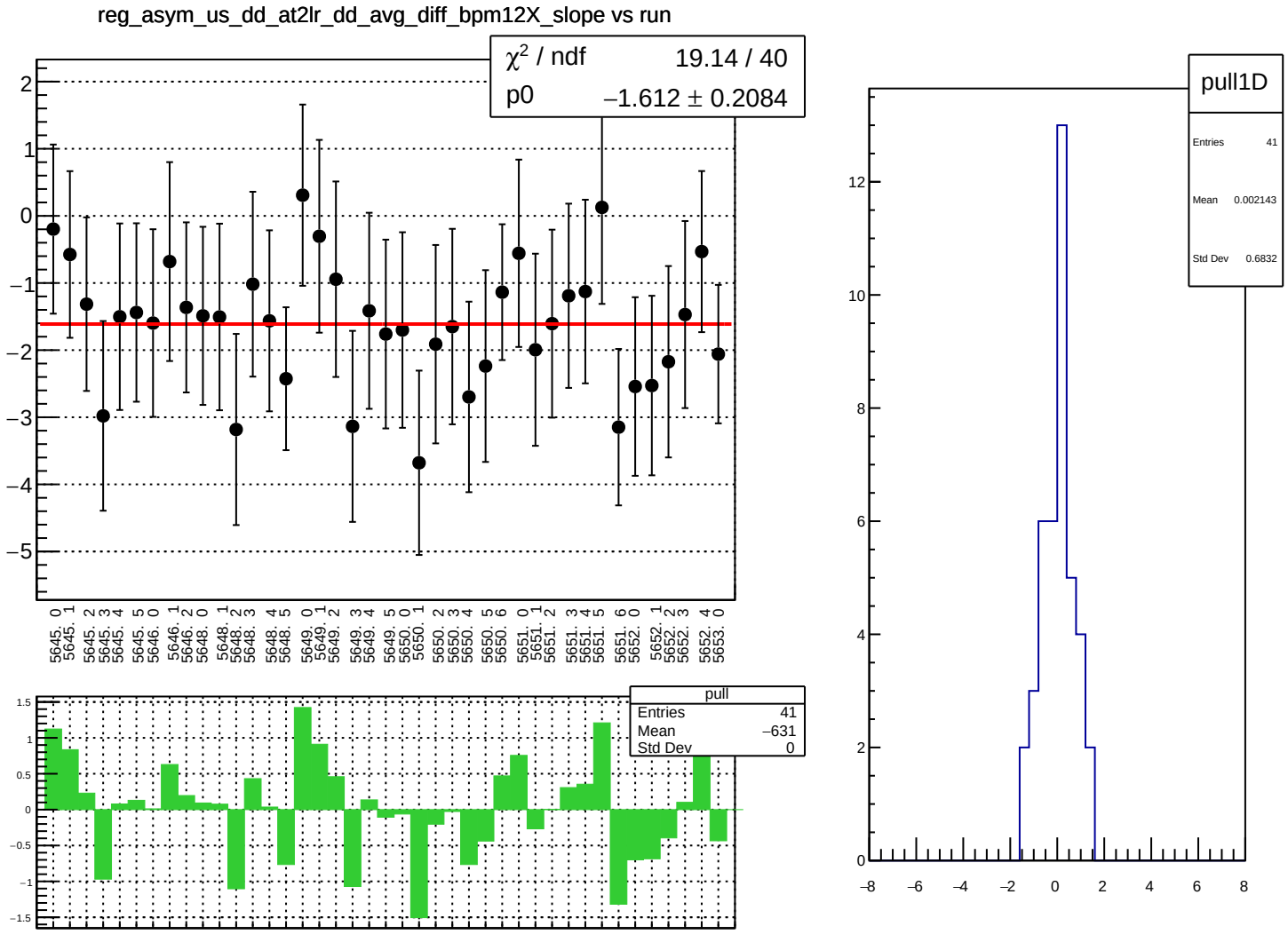

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.01 / 40
p0 −3.744 ± 4.859
pull
Entries 41
Mean 147.1
Std Dev 0
pull1D
Entries 41
Mean 0.007335
Std Dev 0.4687

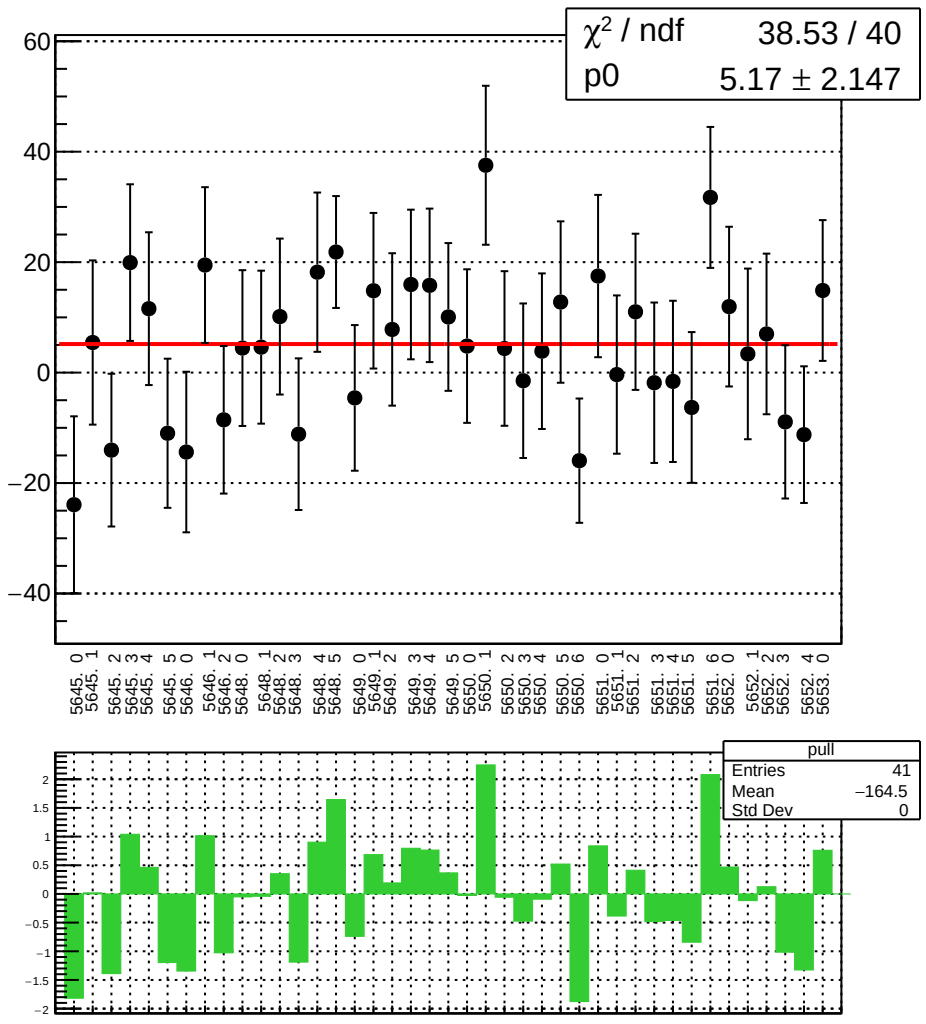

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.72 / 40
p0 −145 ± 5.097
pull
Entries 41
Mean 818.3
Std Dev 0

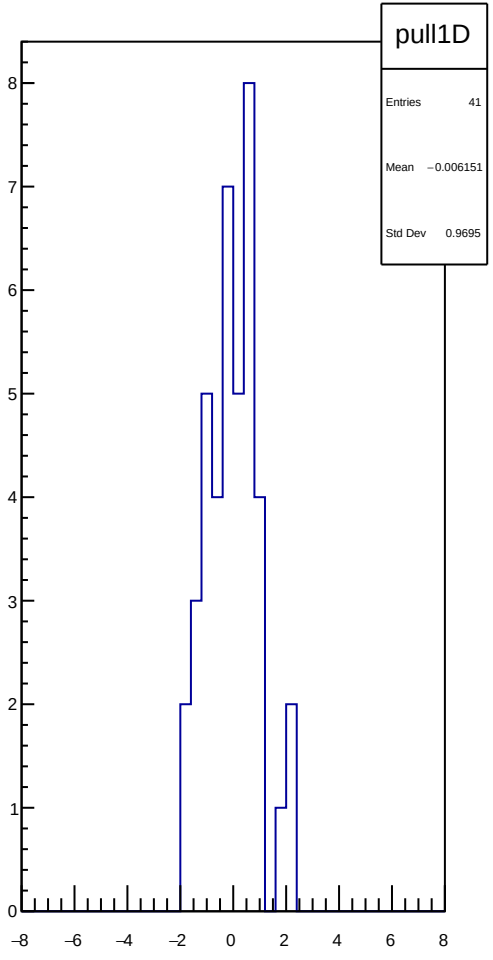

pull1D
Entries 41
Mean 0.002759
Std Dev 0.6575

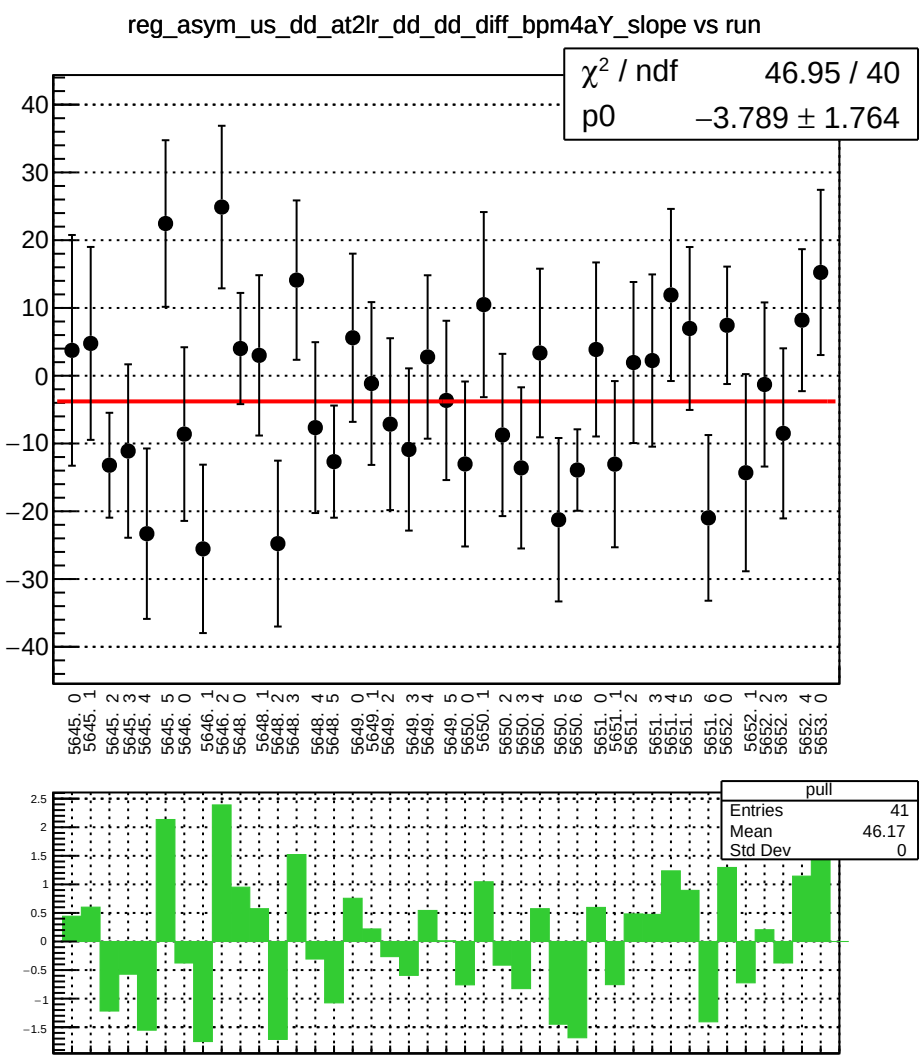

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.869 / 40
p0 4.734 ± 6.114
100
50
0
−50
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 88.72
Std Dev 0
1
0.5
0
−0.5
−1

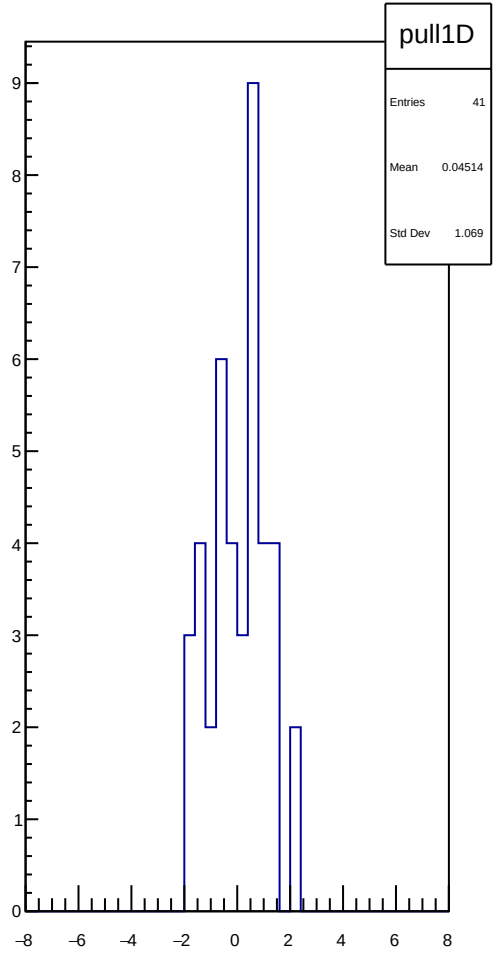

pull1D
Entries 41
Mean −0.01456
Std Dev 0.4649
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

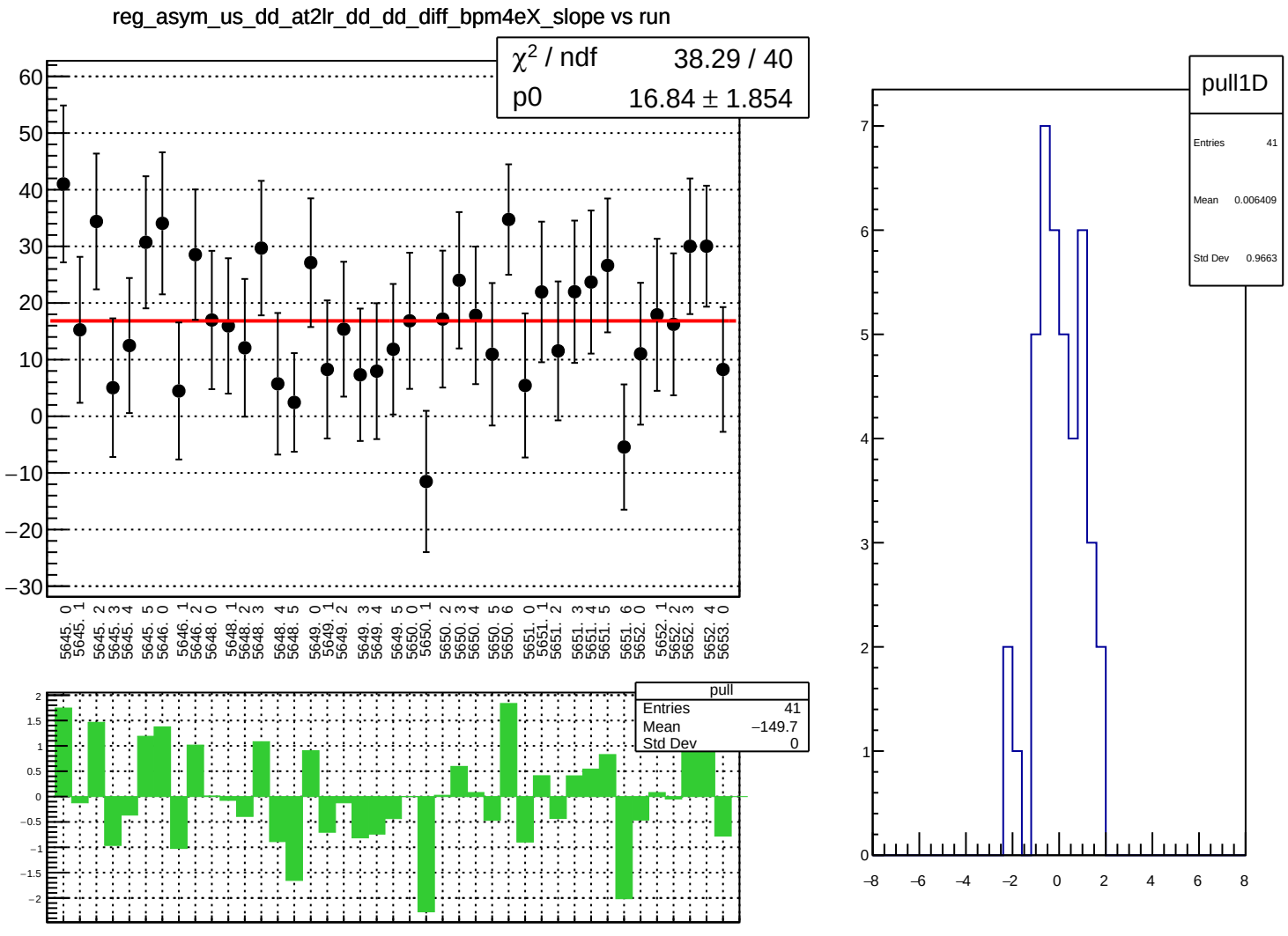

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 19.14 / 40
p0 −1.612 ± 0.2084
pull
Entries 41
Mean −631
Std Dev 0
pull1D
Entries 41
Mean 0.002143
Std Dev 0.6832

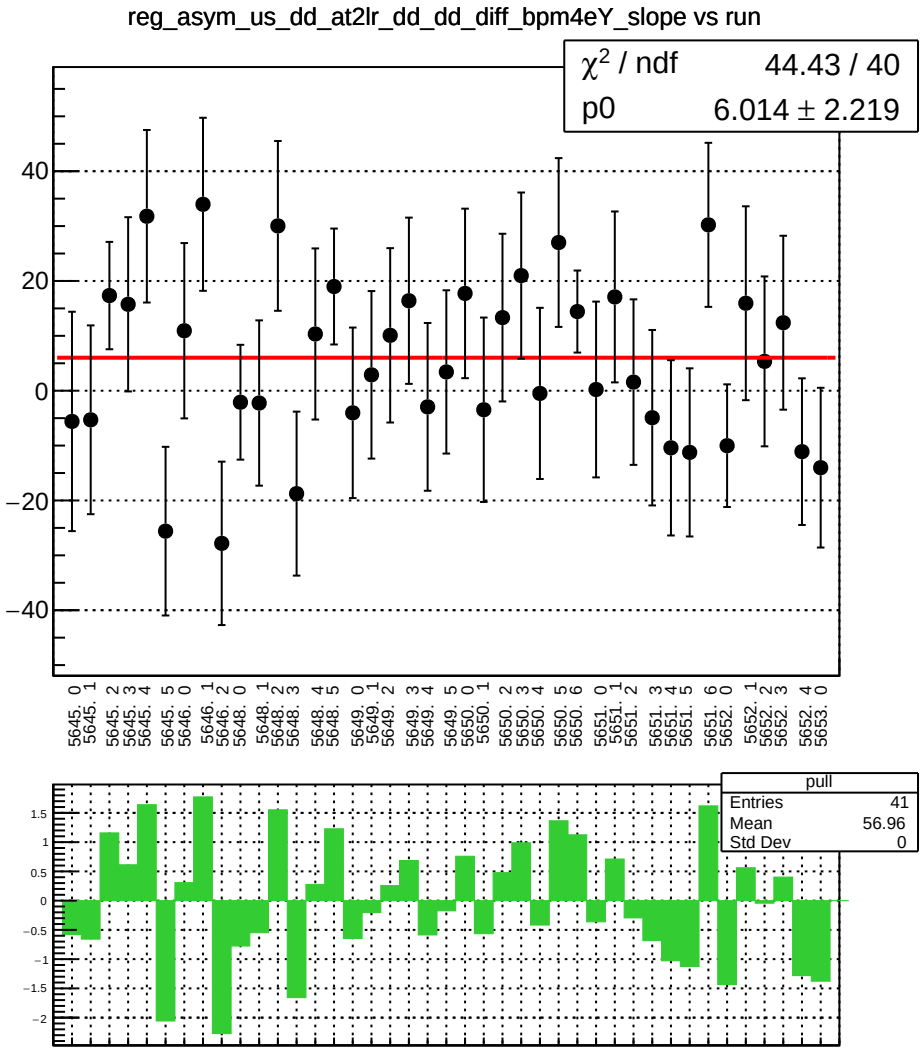

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 38.53 / 40
p0 5.17 ± 2.147
pull
Entries 41
Mean −164.5
Std Dev 0

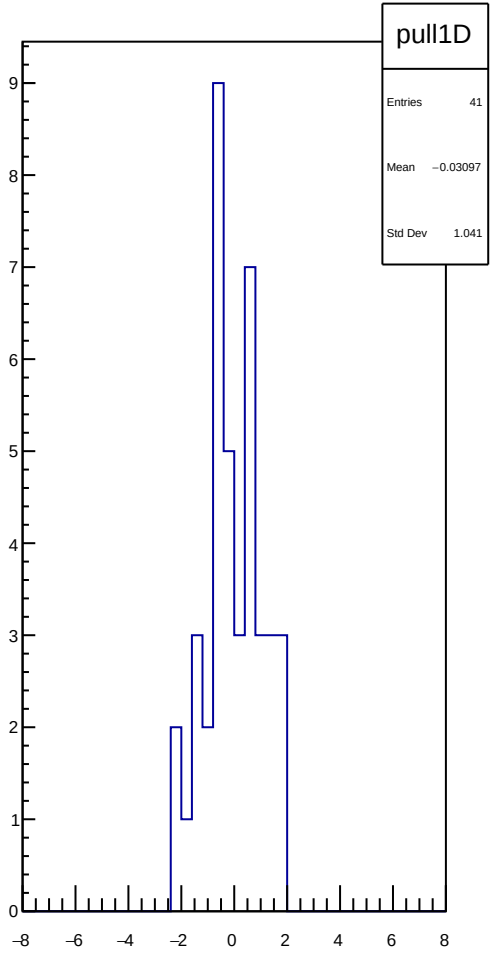

pull1D
Entries 41
Mean −0.006151
Std Dev 0.9695

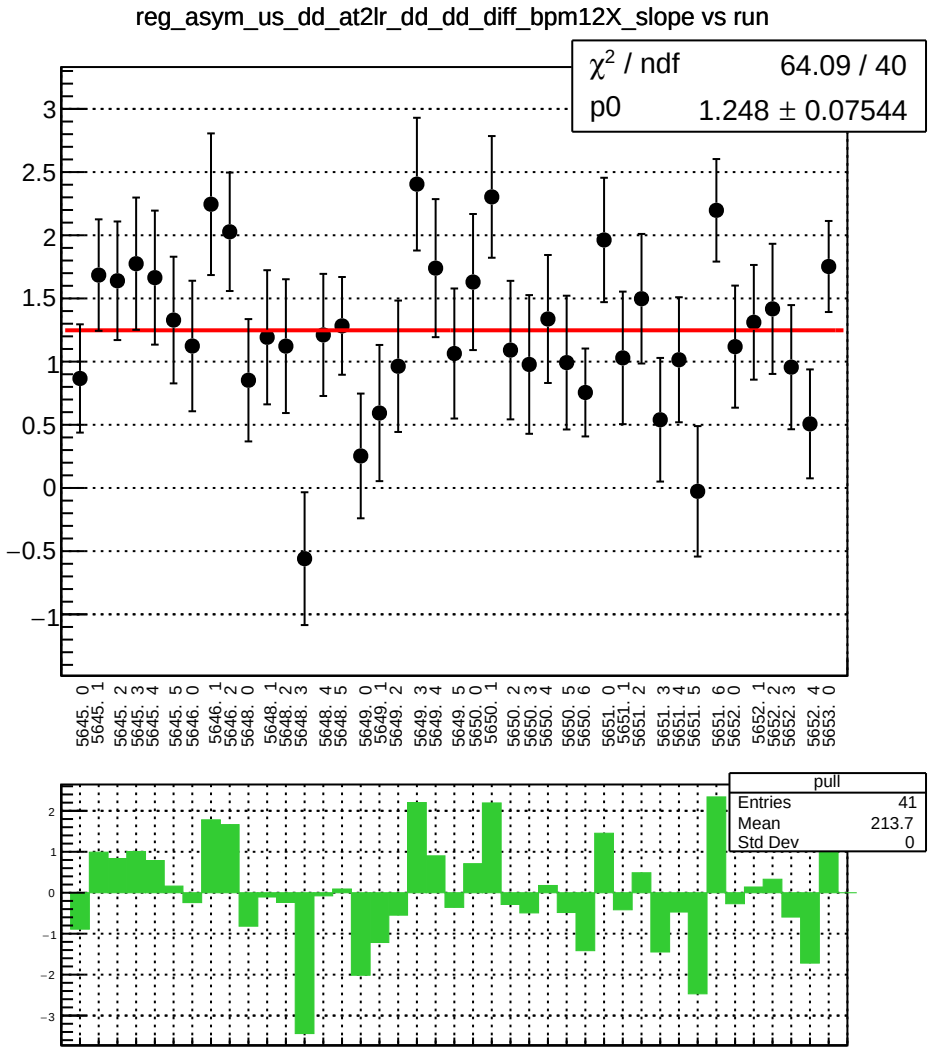

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.95 / 40
p0 −3.789 ± 1.764
pull
Entries 41
Mean 46.17
Std Dev 0

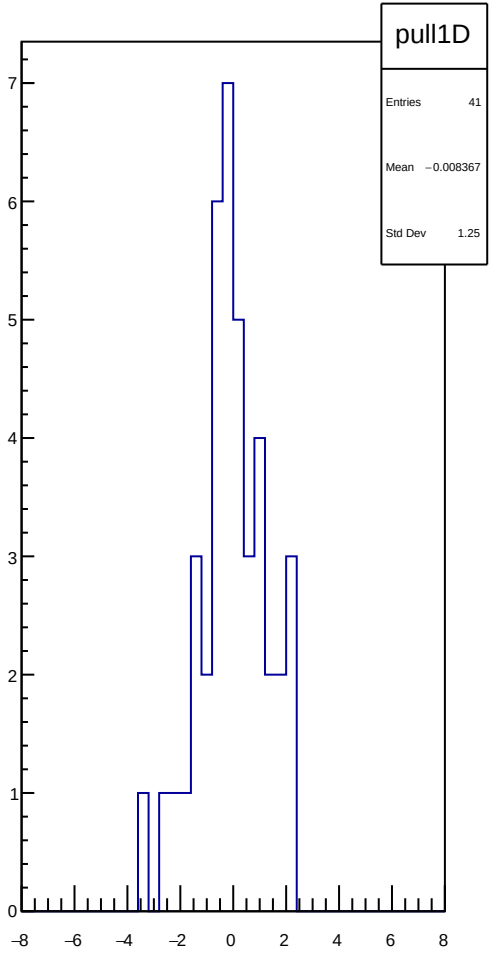

pull1D
Entries 41
Mean 0.04514
Std Dev 1.069

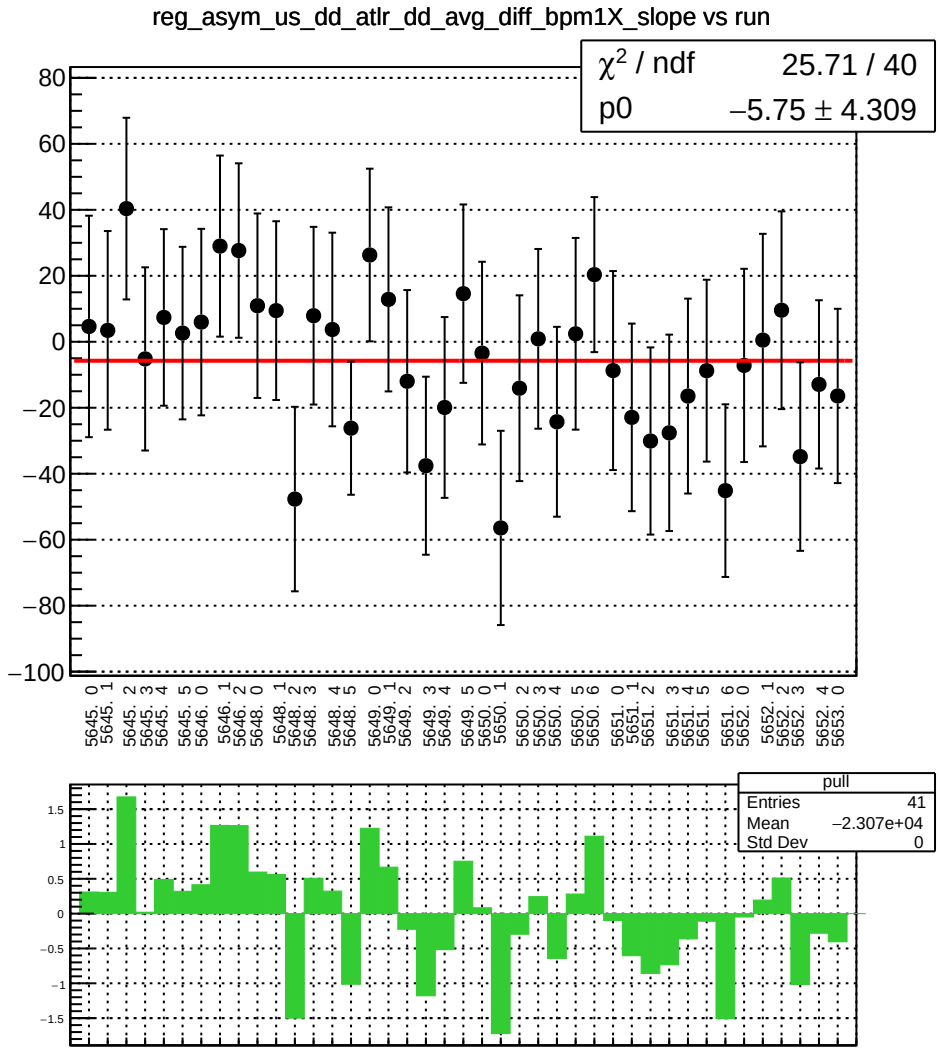

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.29 / 40
p0 16.84 ± 1.854
pull
Entries 41
Mean −149.7
Std Dev 0
pull1D
Entries 41
Mean 0.006409
Std Dev 0.9663

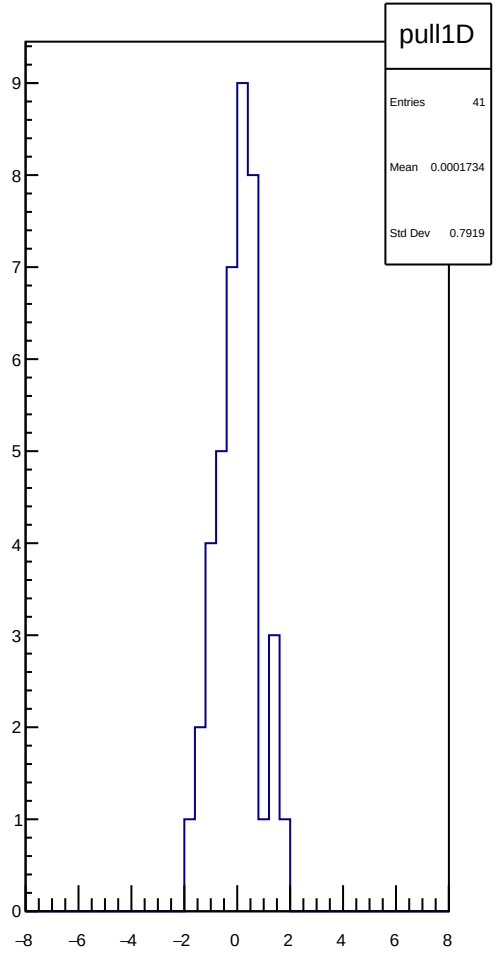

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.43 / 40
p0 6.014 ± 2.219
pull
Entries 41
Mean 56.96
Std Dev 0

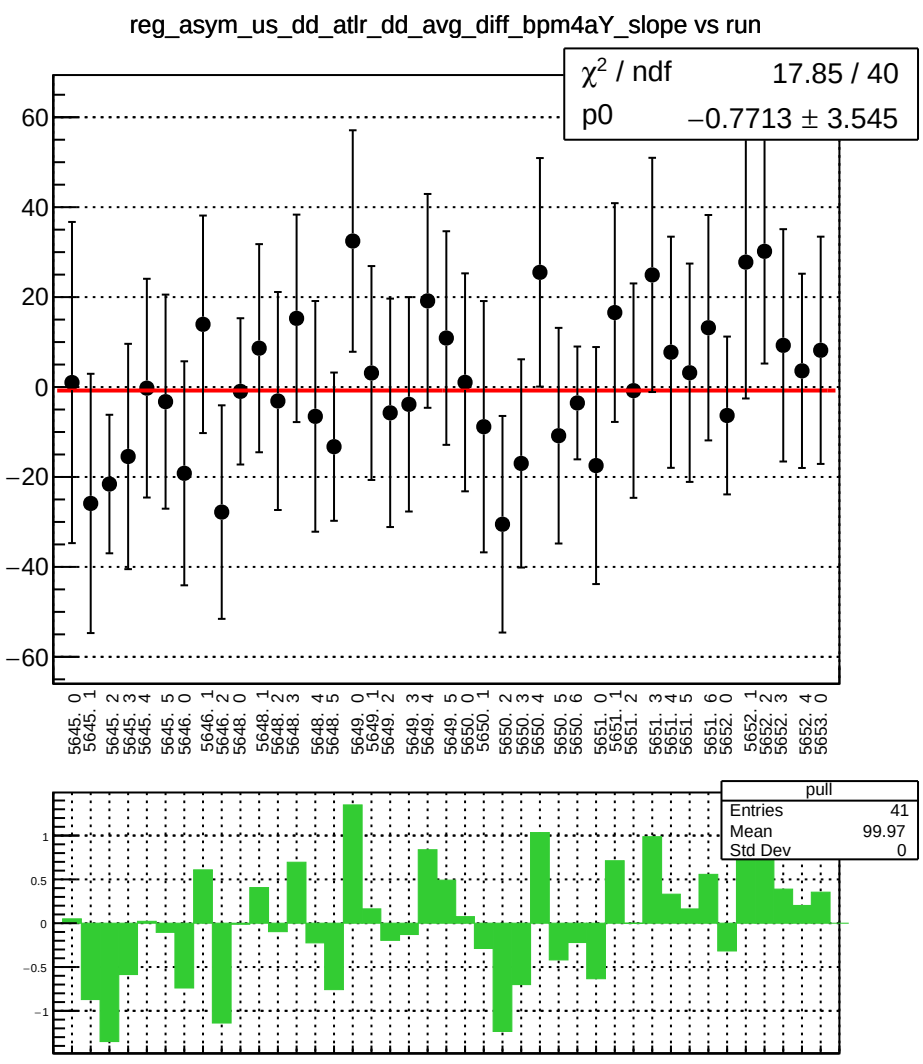

pull1D
Entries 41
Mean −0.03097
Std Dev 1.041

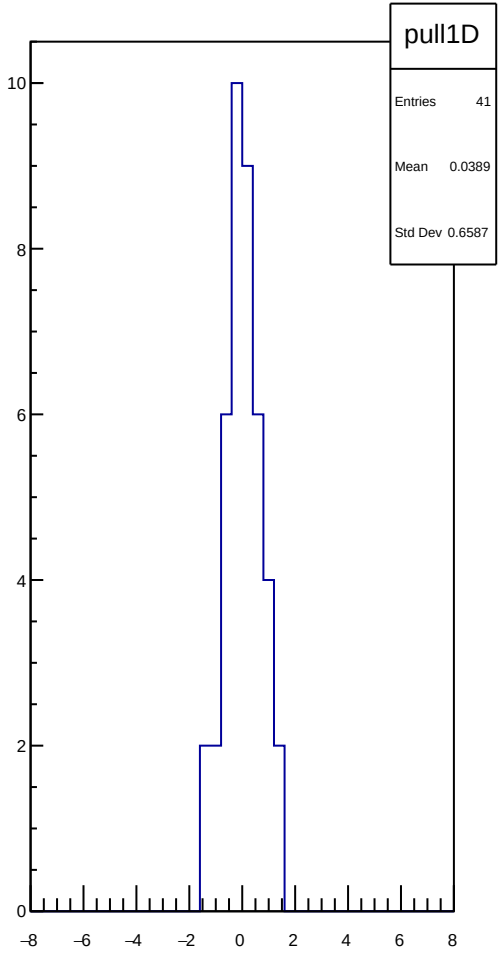

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 64.09 / 40
p0 1.248 ± 0.07544
pull
Entries 41
Mean 213.7
Std Dev 0

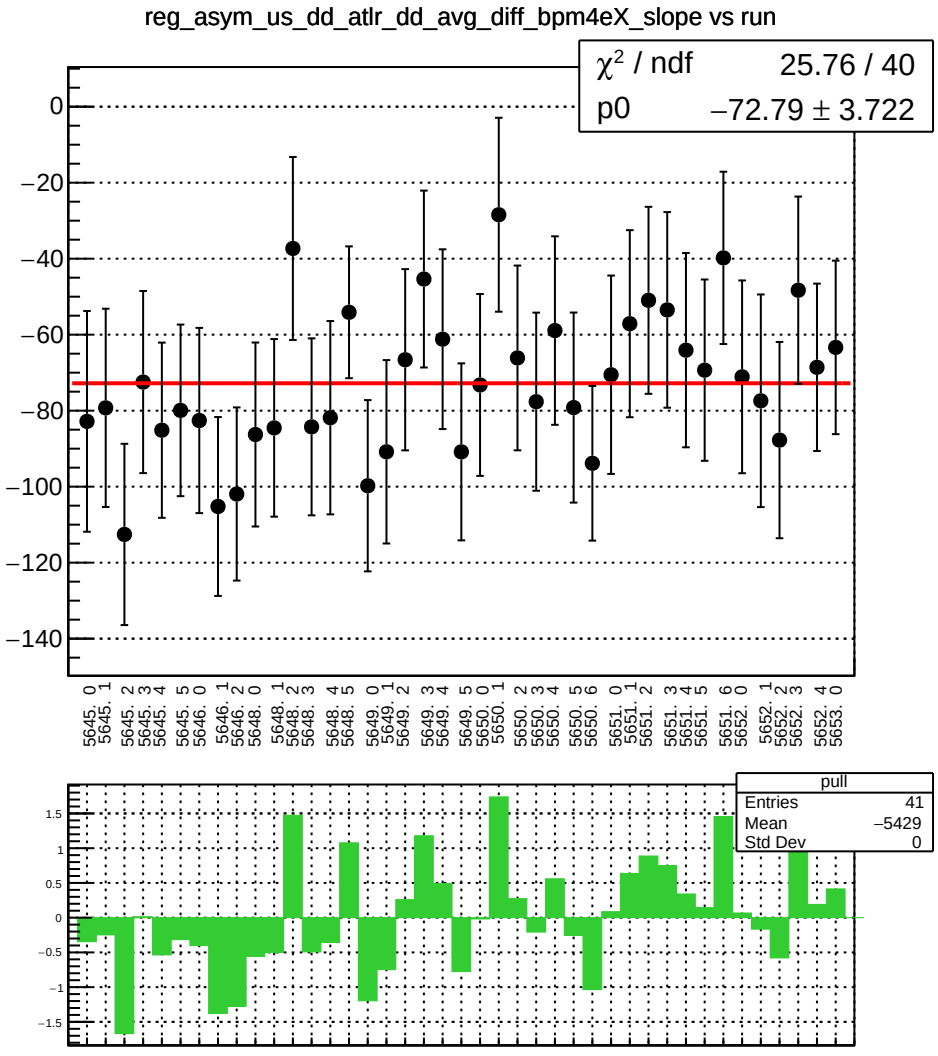

pull1D
Entries 41
Mean −0.008367
Std Dev 1.25

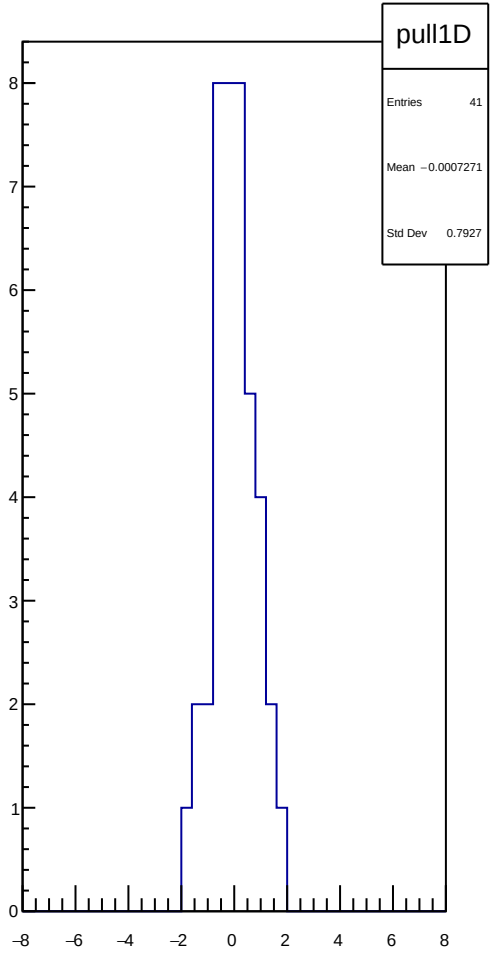

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 25.71 / 40
p0 −5.75 ± 4.309
pull
Entries 41
Mean −2.307e+04
Std Dev 0

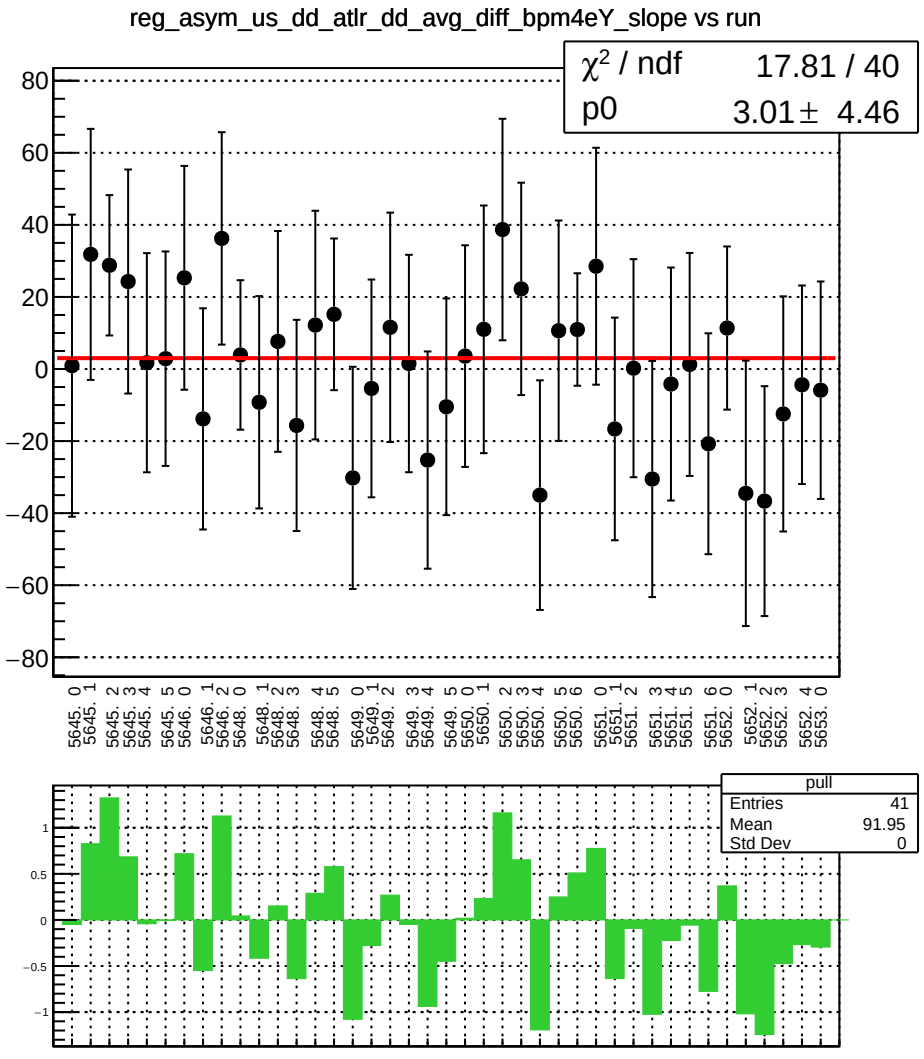

pull1D
Entries 41
Mean 0.0001734
Std Dev 0.7919

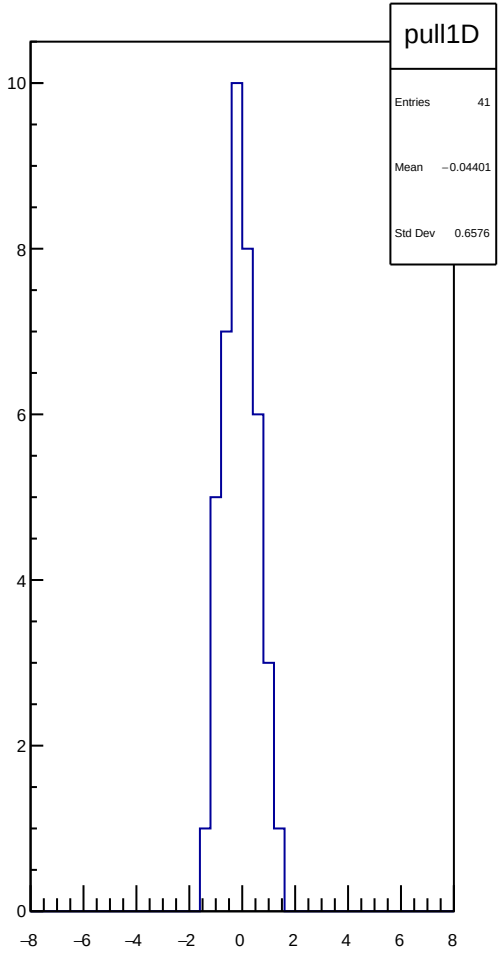

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.85 / 40
p0 −0.7713 ± 3.545
pull
Entries 41
Mean 99.97
Std Dev 0

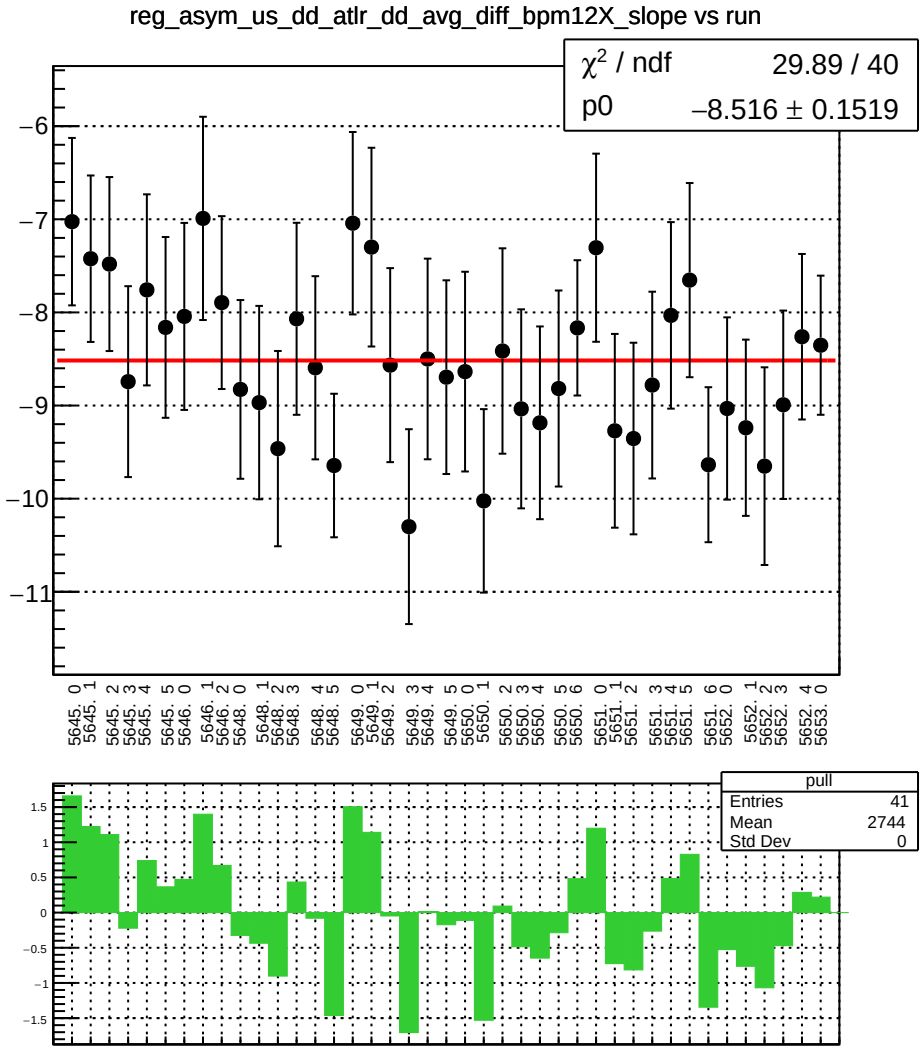

pull1D
Entries 41
Mean 0.0389
Std Dev 0.6587

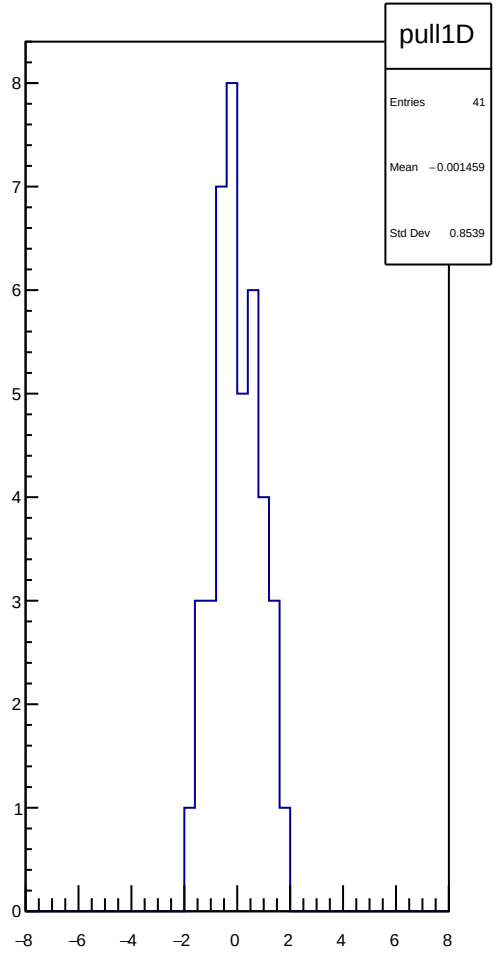

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.76 / 40
p0 −72.79 ± 3.722
pull
Entries 41
Mean −5429
Std Dev 0

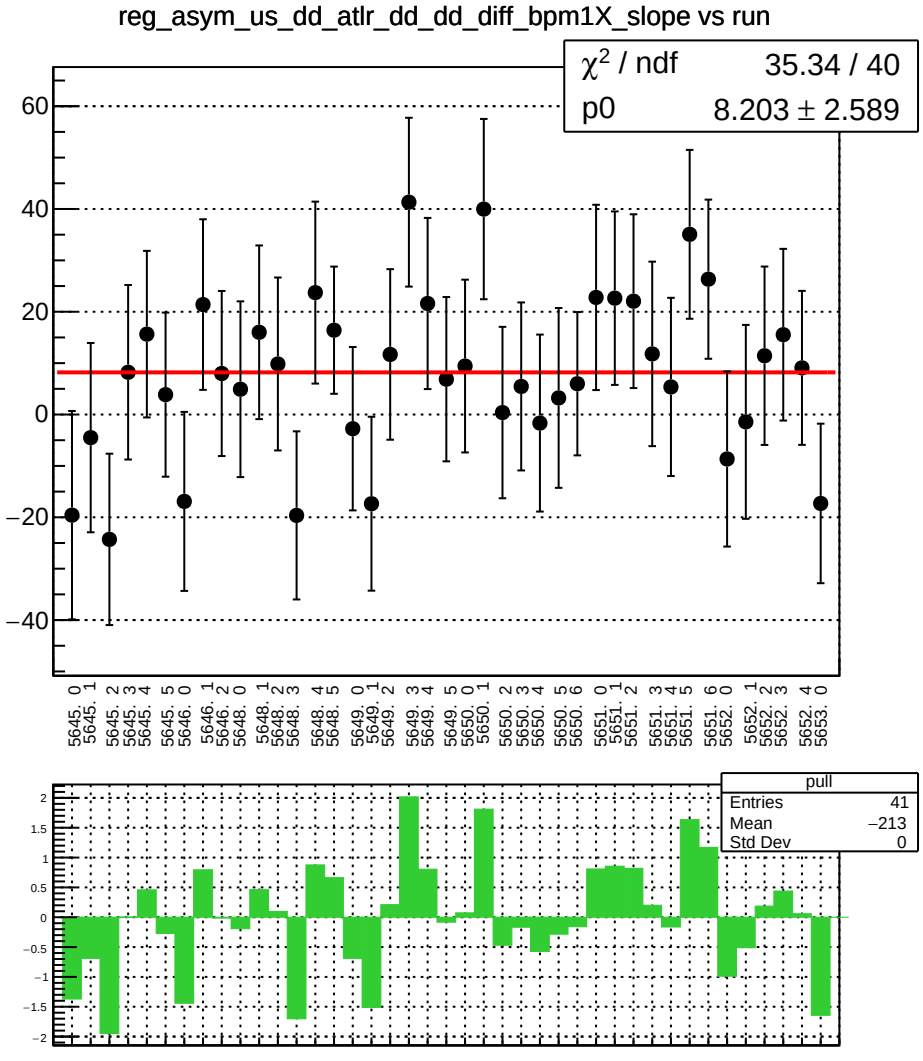

pull1D
Entries 41
Mean −0.0007271
Std Dev 0.7927

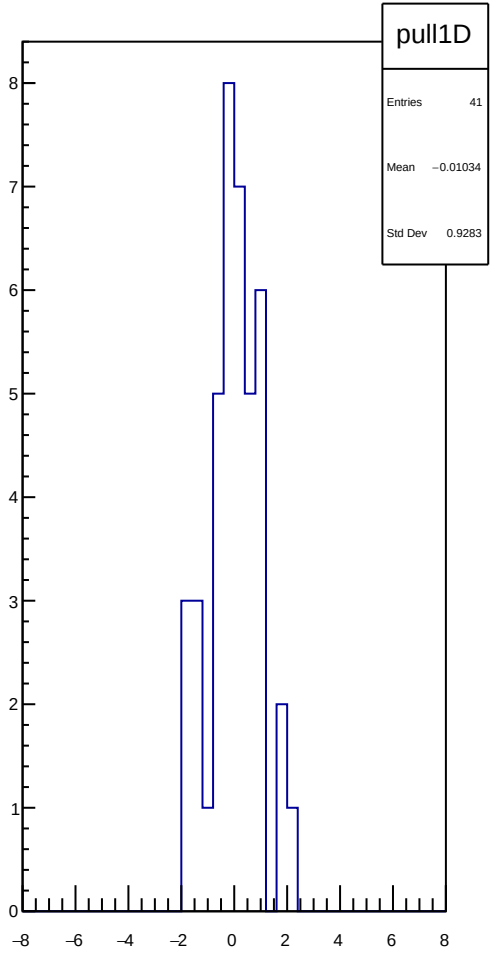

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.81 / 40
p0 3.01± 4.46
pull
Entries 41
Mean 91.95
Std Dev 0

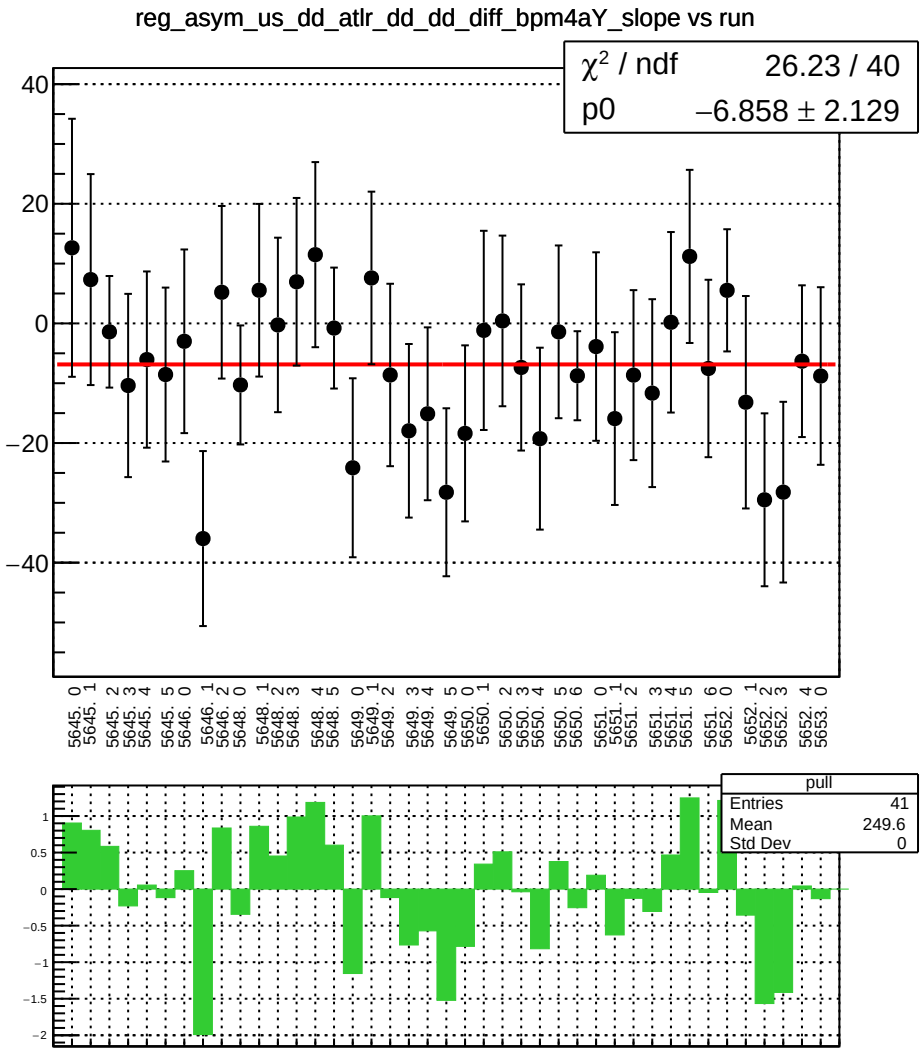

pull1D
Entries 41
Mean −0.04401
Std Dev 0.6576

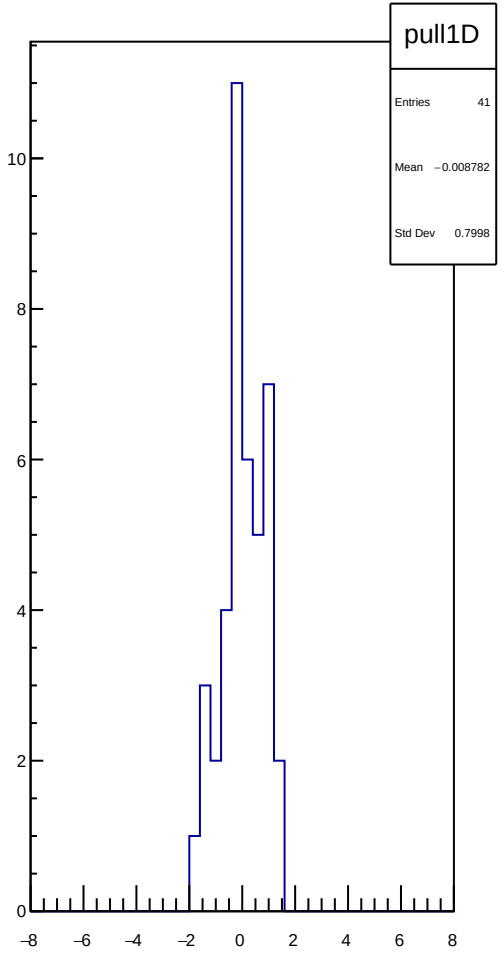

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.89 / 40
p0 −8.516 ± 0.1519
pull
Entries 41
Mean 2744
Std Dev 0

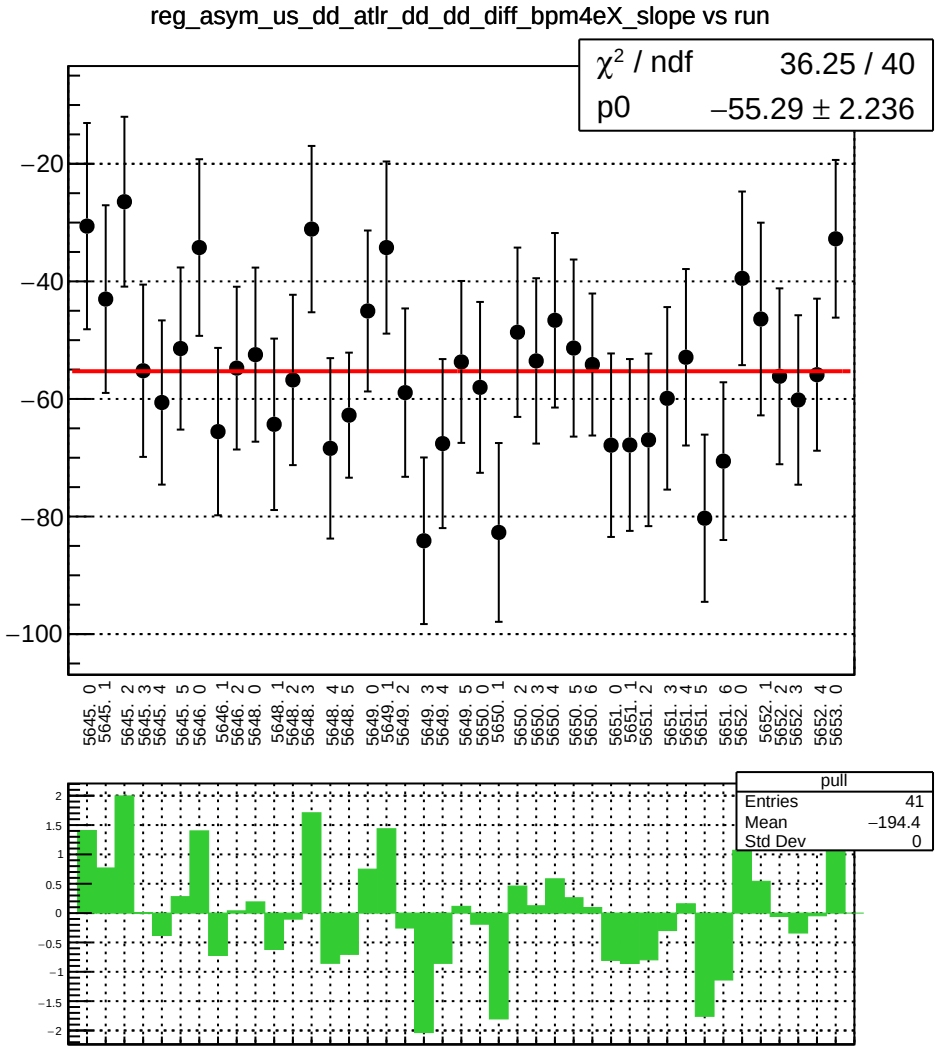

pull1D
Entries 41
Mean −0.001459
Std Dev 0.8539

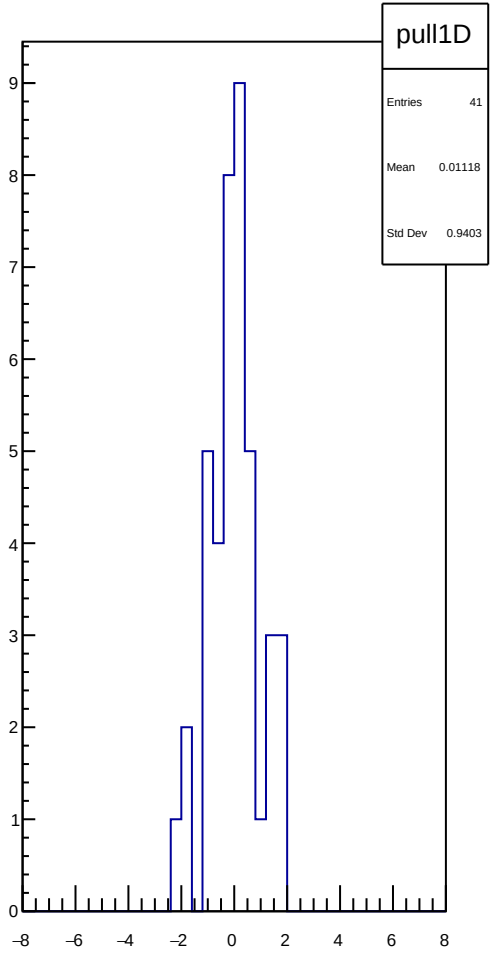

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 35.34 / 40
p0 8.203 ± 2.589
pull
Entries 41
Mean −213
Std Dev 0

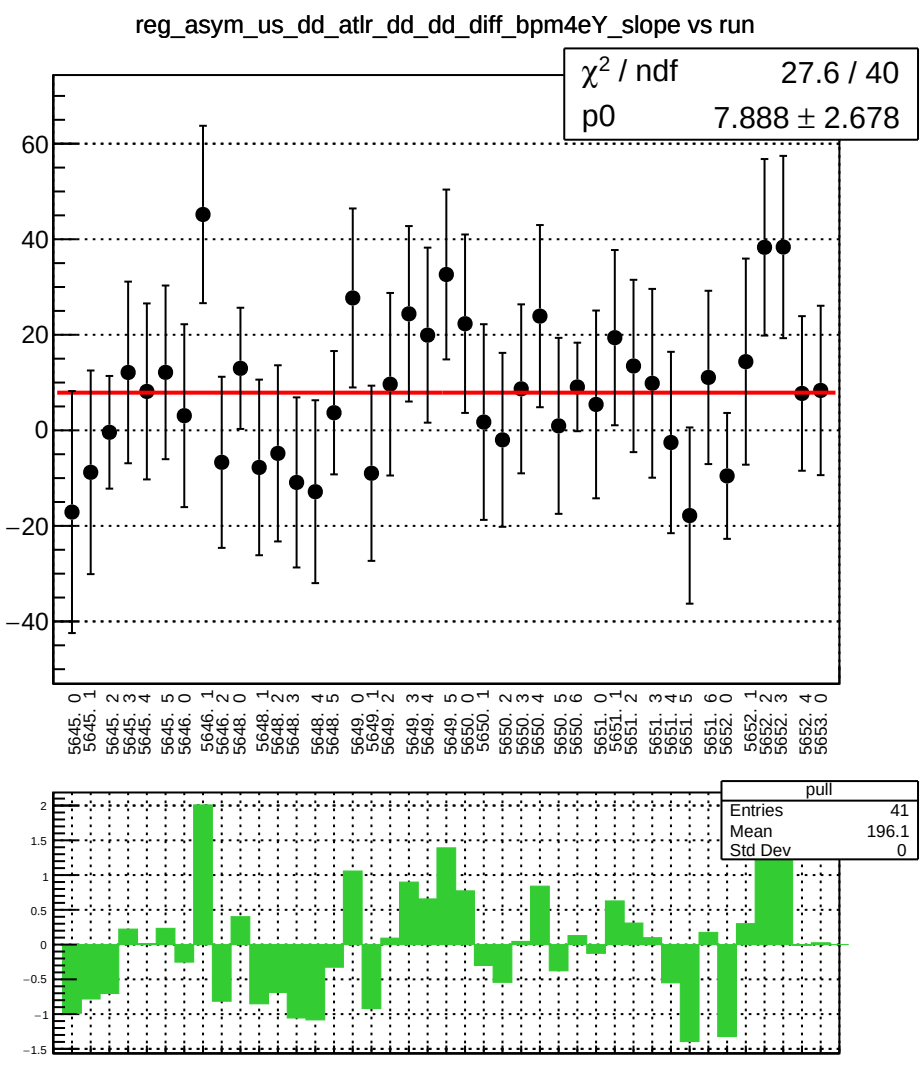

pull1D
Entries 41
Mean −0.01034
Std Dev 0.9283

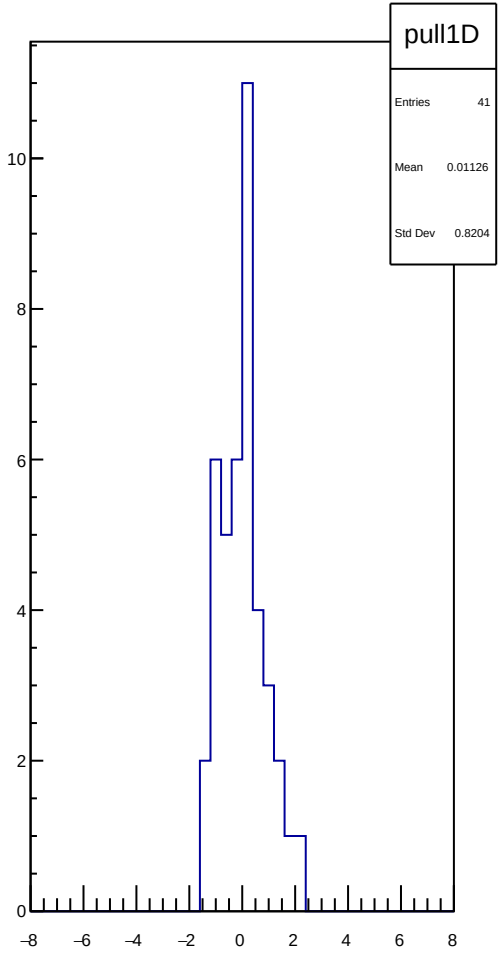

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.23 / 40
p0 −6.858 ± 2.129
pull
Entries 41
Mean 249.6
Std Dev 0

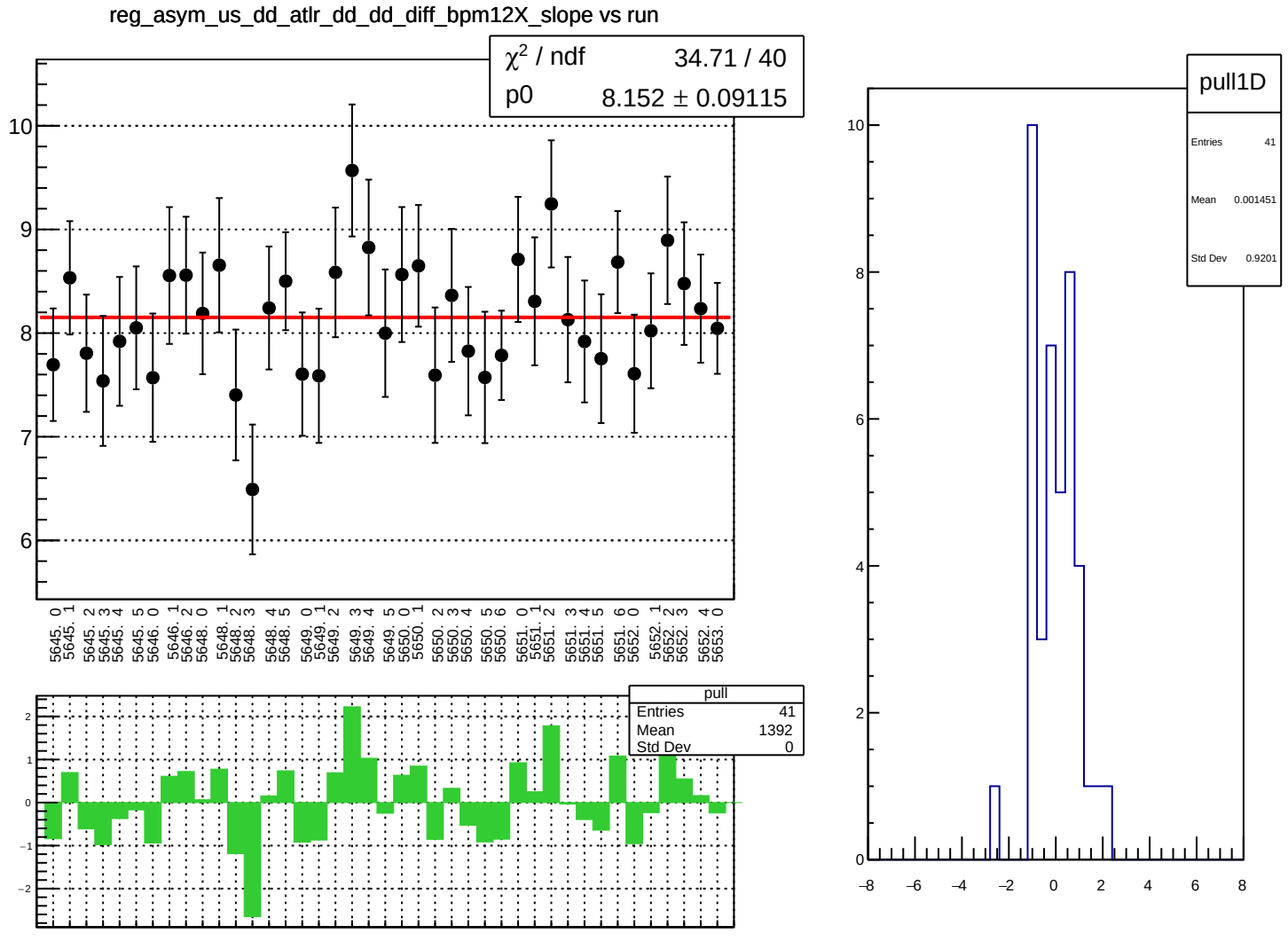

pull1D
Entries 41
Mean −0.008782
Std Dev 0.7998

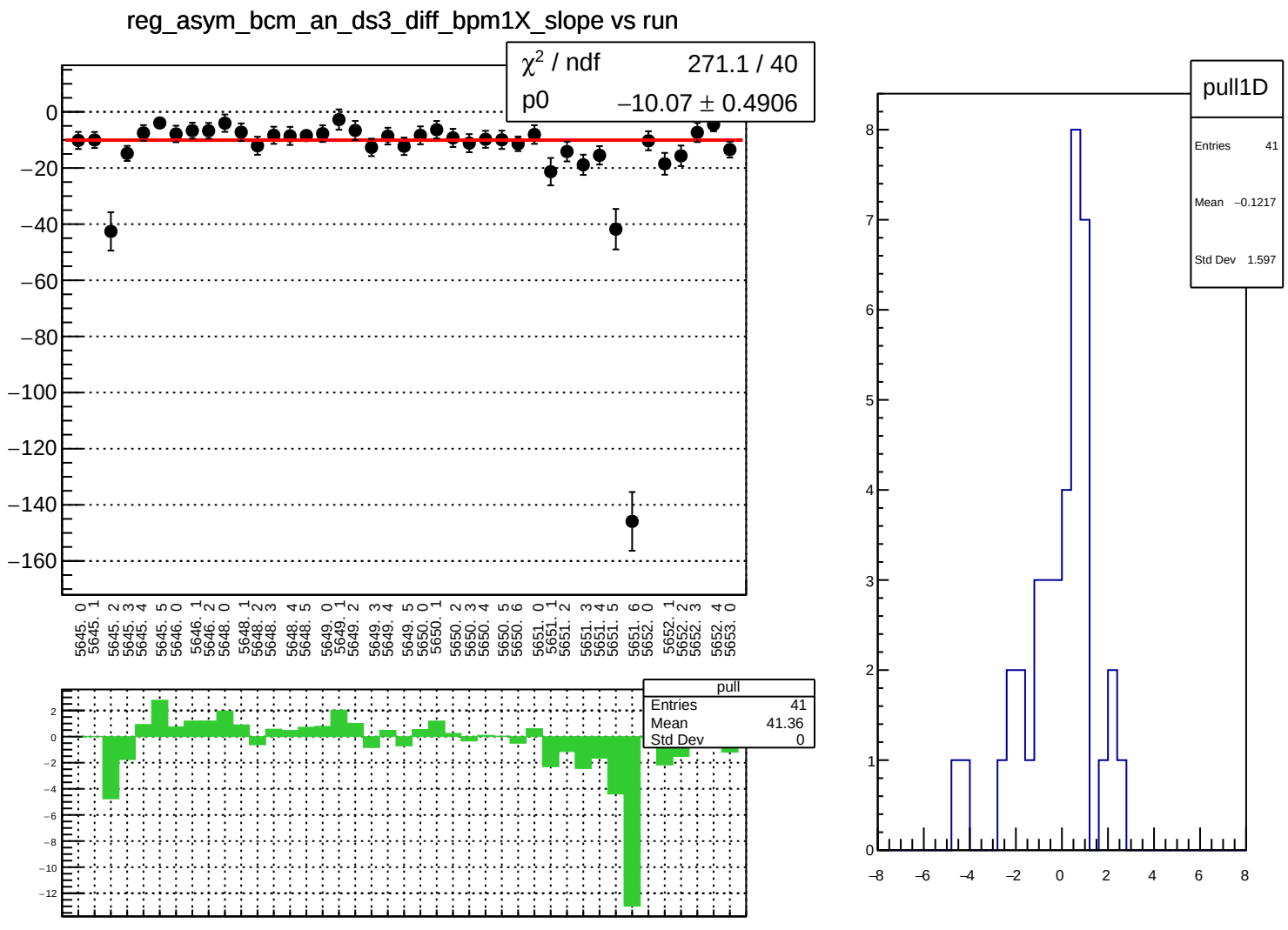

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.25 / 40
p0 −55.29 ± 2.236
−20
−40
−60
−80
−100
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −194.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

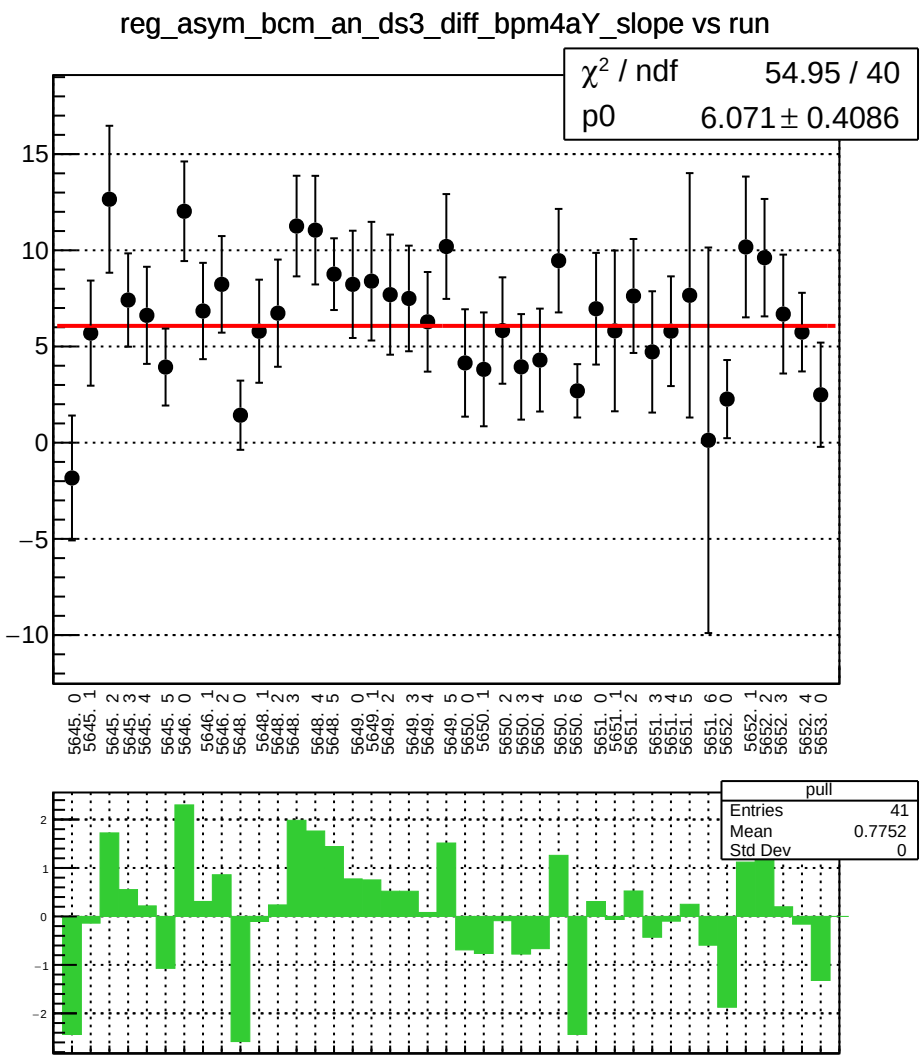

pull1D
Entries 41
Mean 0.01118
Std Dev 0.9403
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

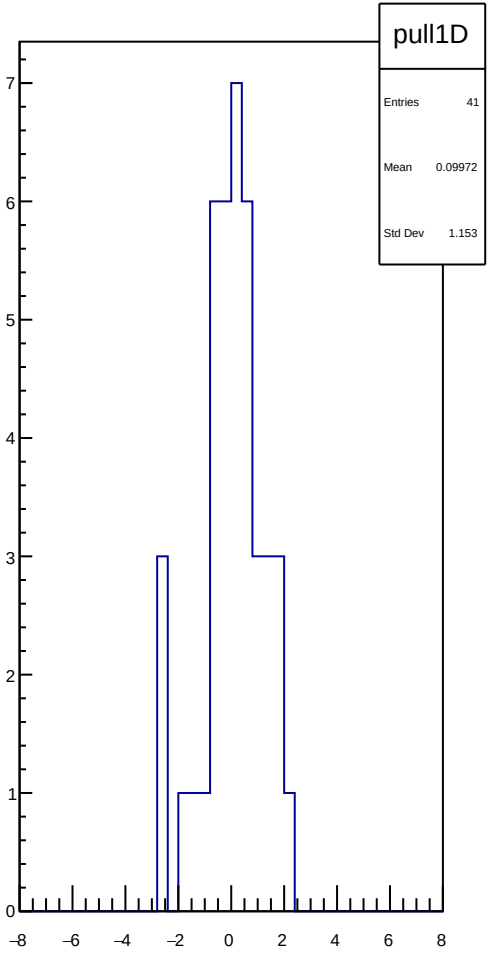

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.6 / 40
p0 7.888 ± 2.678
pull
Entries 41
Mean 196.1
Std Dev 0

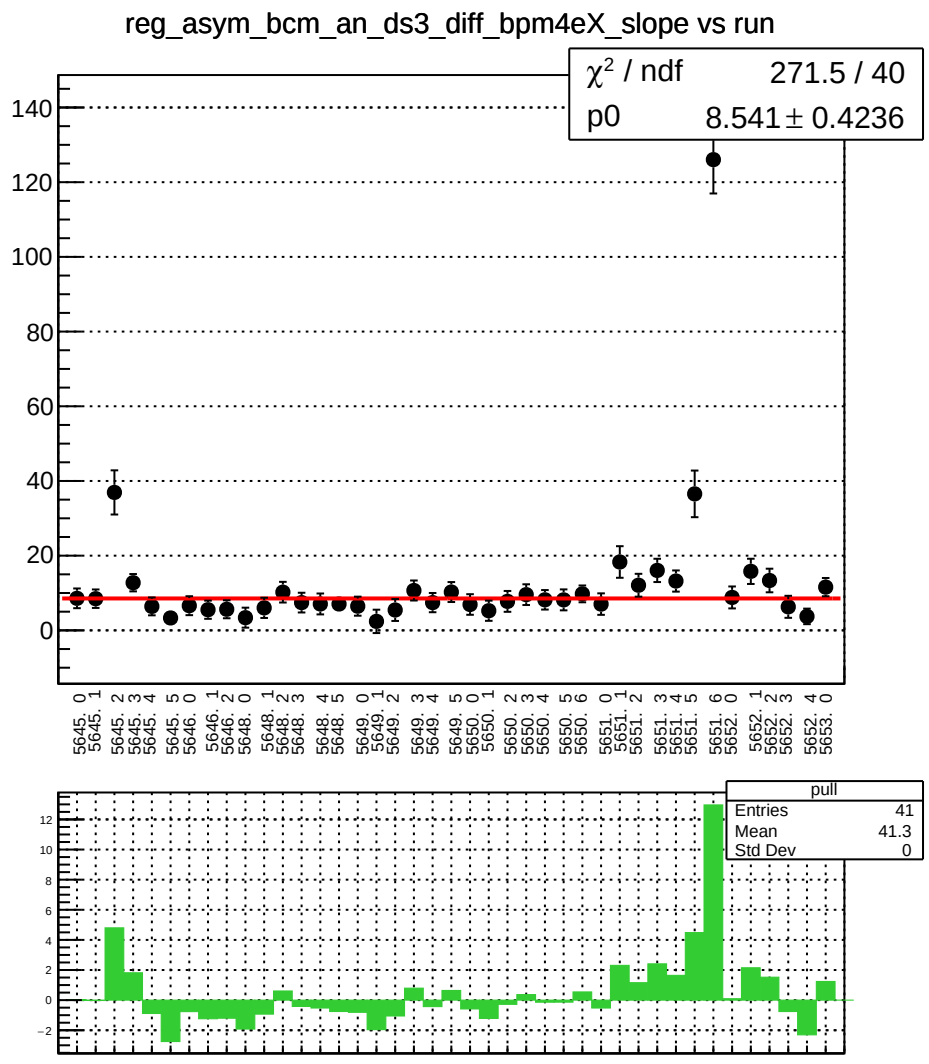

pull1D
Entries 41
Mean 0.01126
Std Dev 0.8204

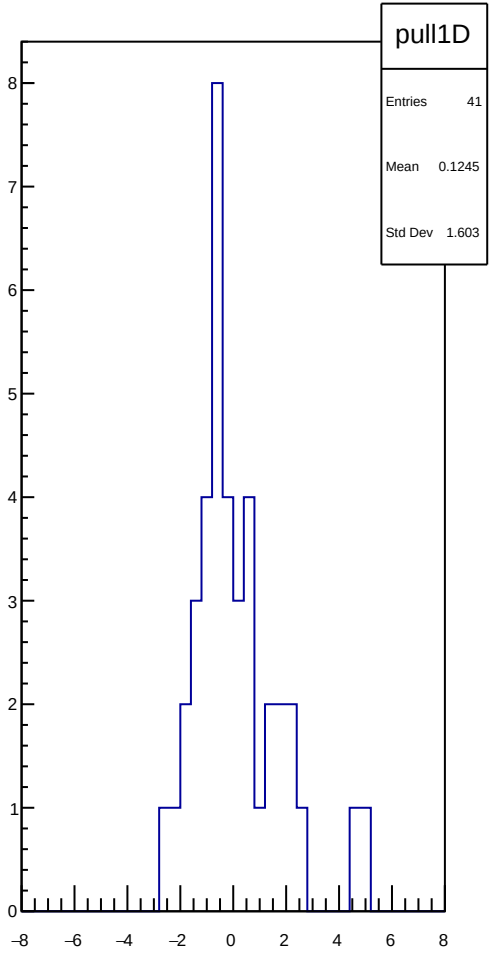

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 34.71 / 40
p0 8.152 ± 0.09115
pull
Entries 41
Mean 1392
Std Dev 0
pull1D
Entries 41
Mean 0.001451
Std Dev 0.9201

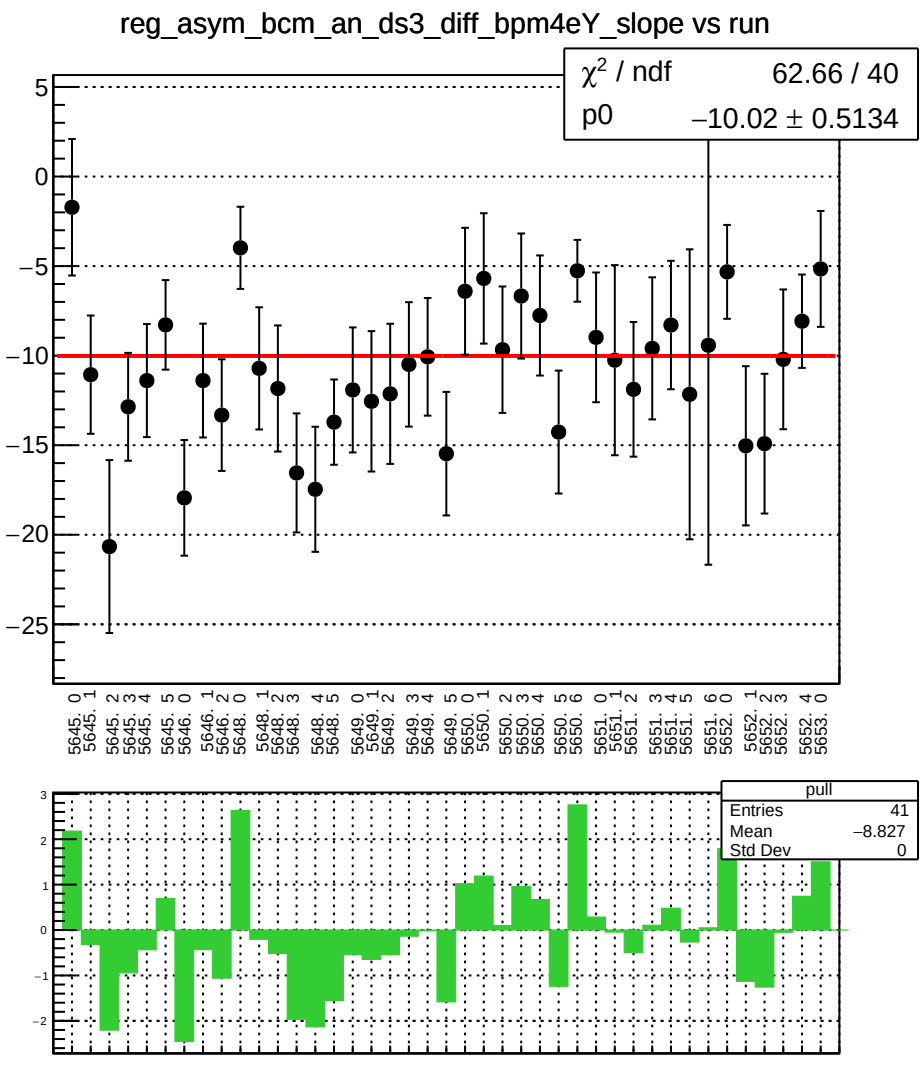

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 271.1 / 40
p0 −10.07 ± 0.4906
pull
Entries 41
Mean 41.36
Std Dev 0
pull1D
Entries 41
Mean −0.1217
Std Dev 1.597

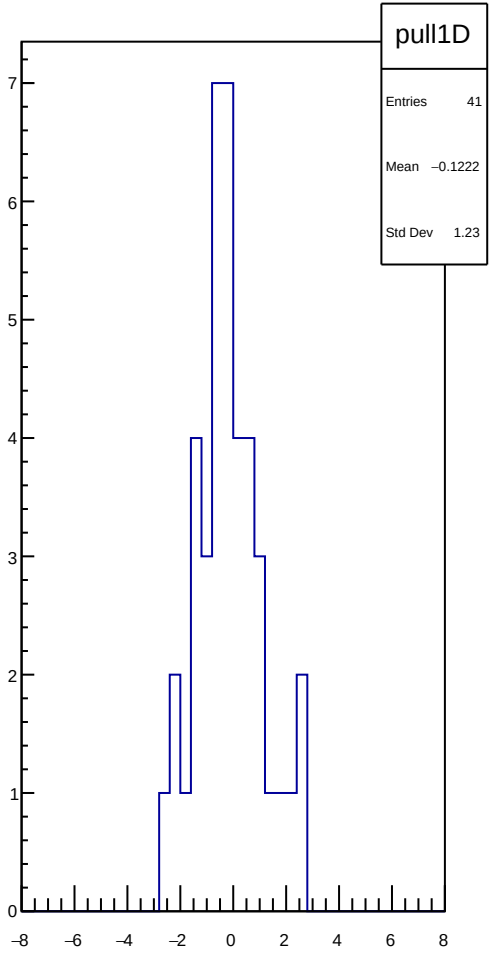

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 54.95 / 40
p0 6.071 ± 0.4086
pull
Entries 41
Mean 0.7752
Std Dev 0

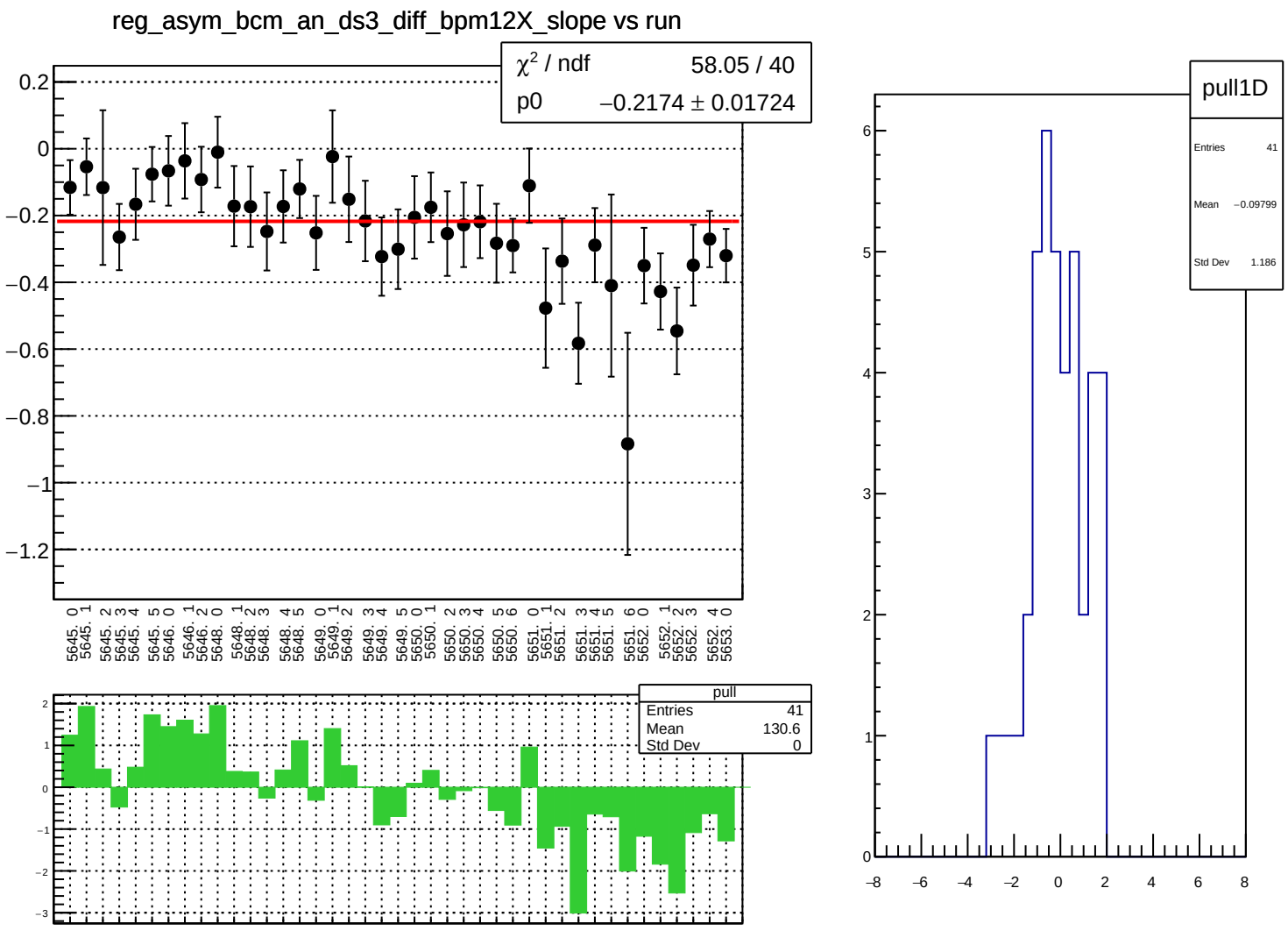

pull1D
Entries 41
Mean 0.09972
Std Dev 1.153

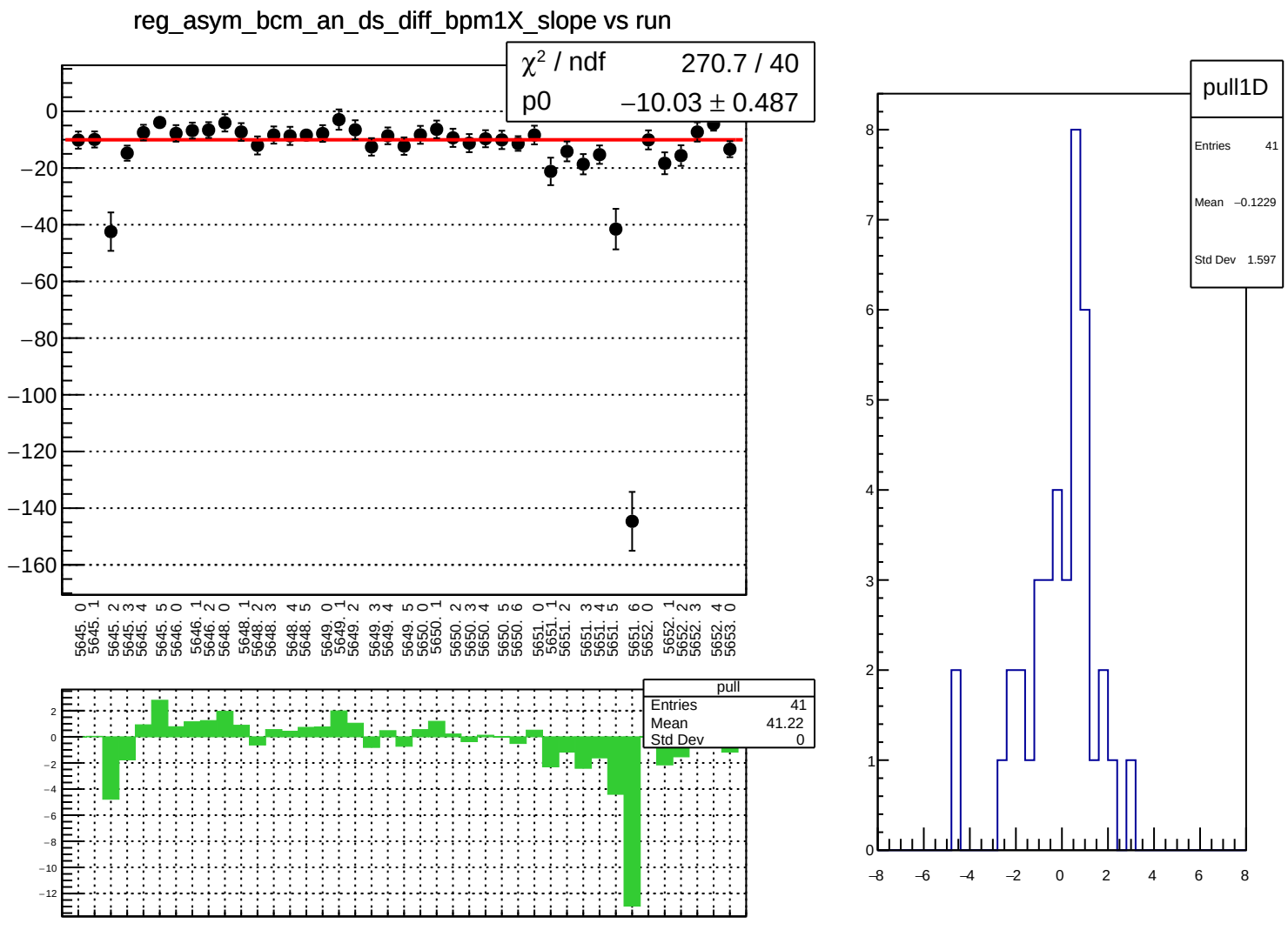

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 271.5 / 40
p0 8.541 ± 0.4236
pull
Entries 41
Mean 41.3
Std Dev 0

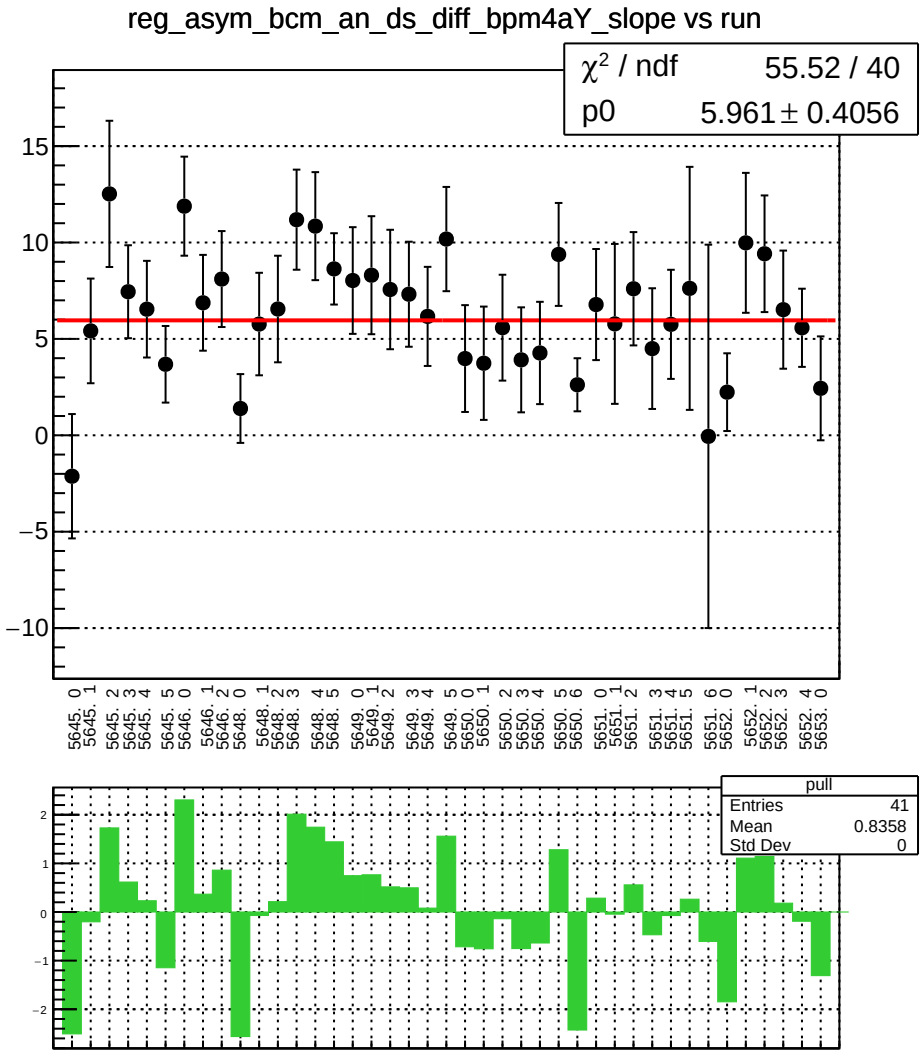

pull1D
Entries 41
Mean 0.1245
Std Dev 1.603

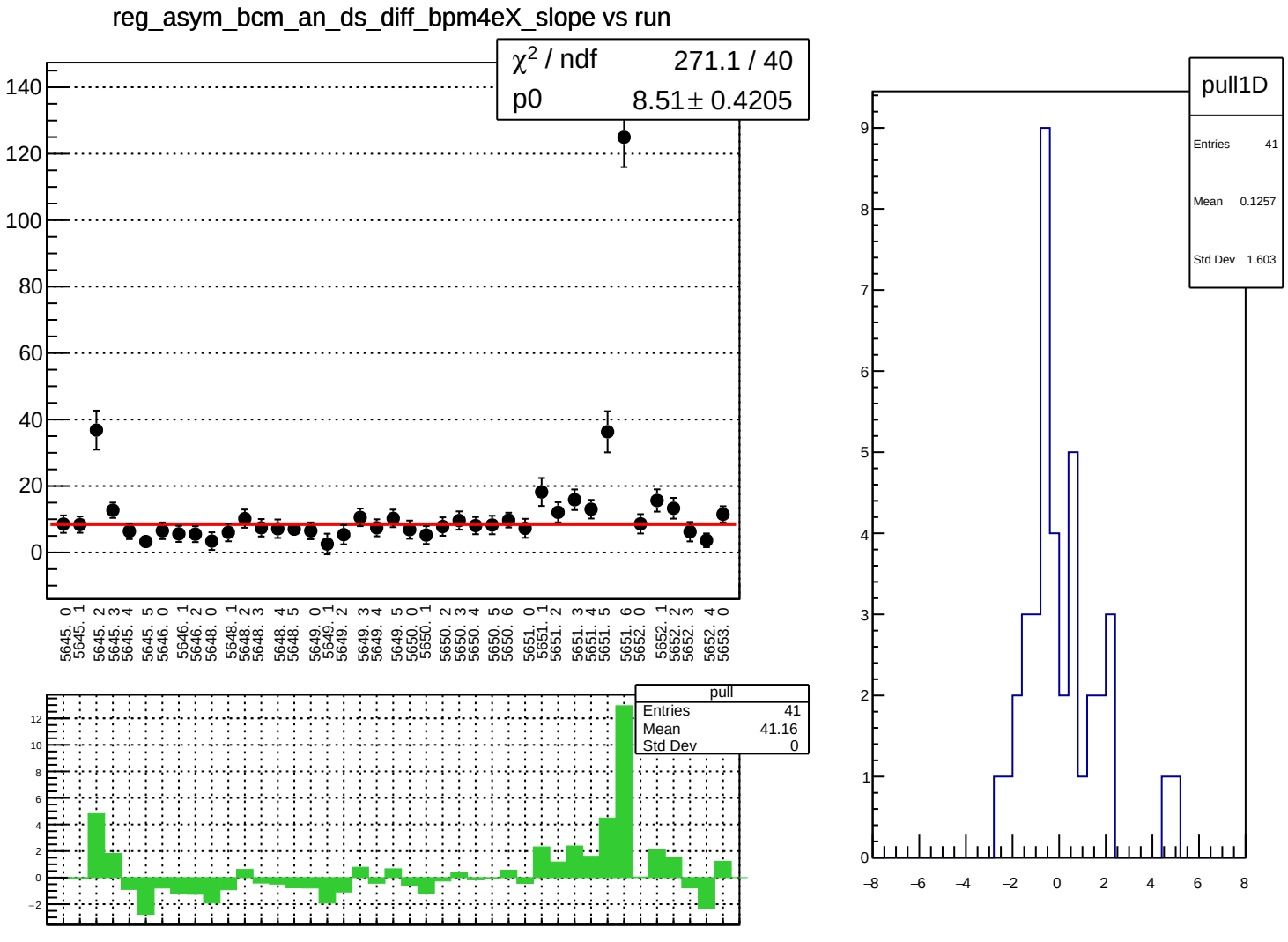

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 62.66 / 40
p0 −10.02 ± 0.5134
pull
Entries 41
Mean −8.827
Std Dev 0

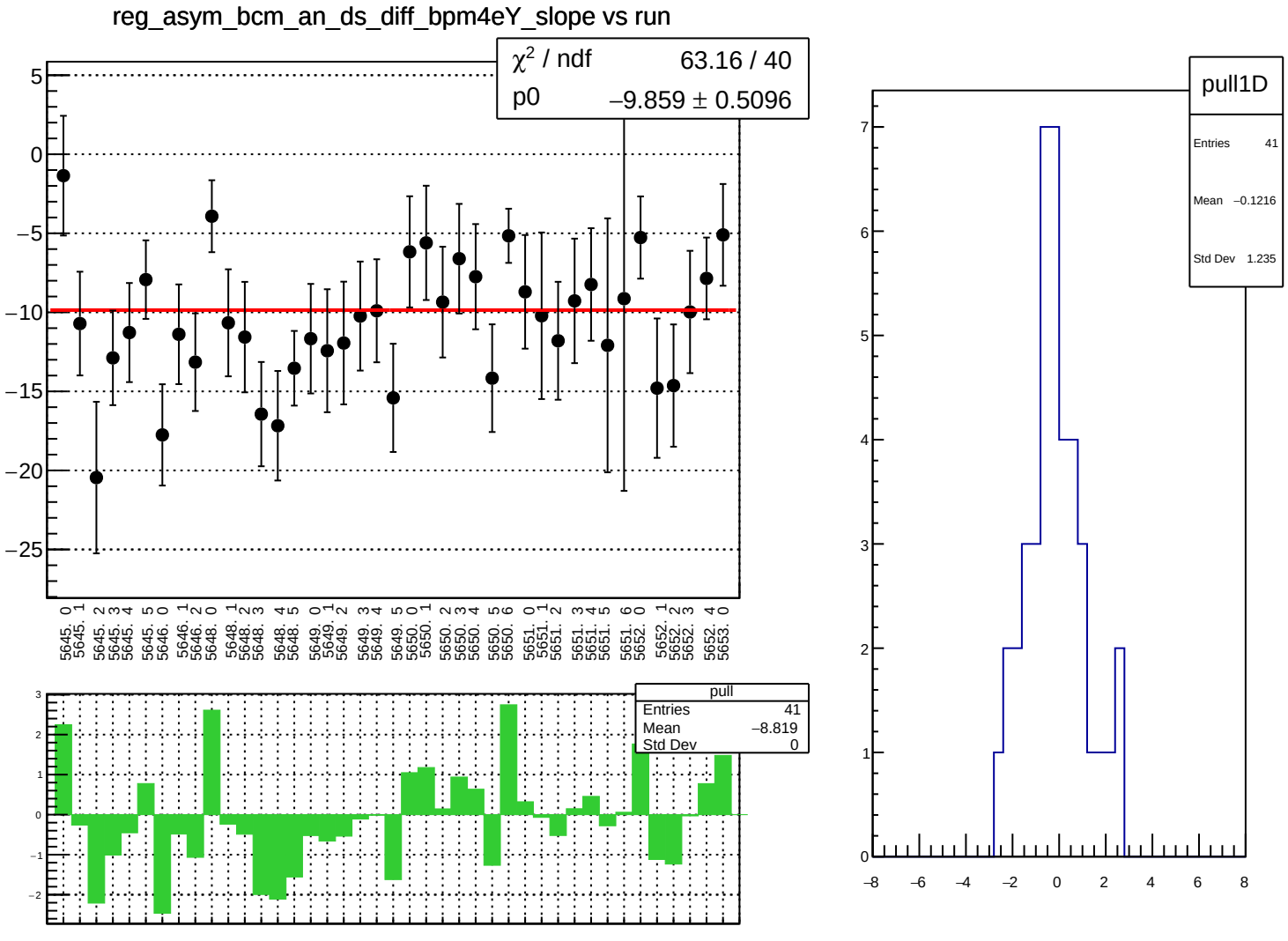

pull1D
Entries 41
Mean −0.1222
Std Dev 1.23

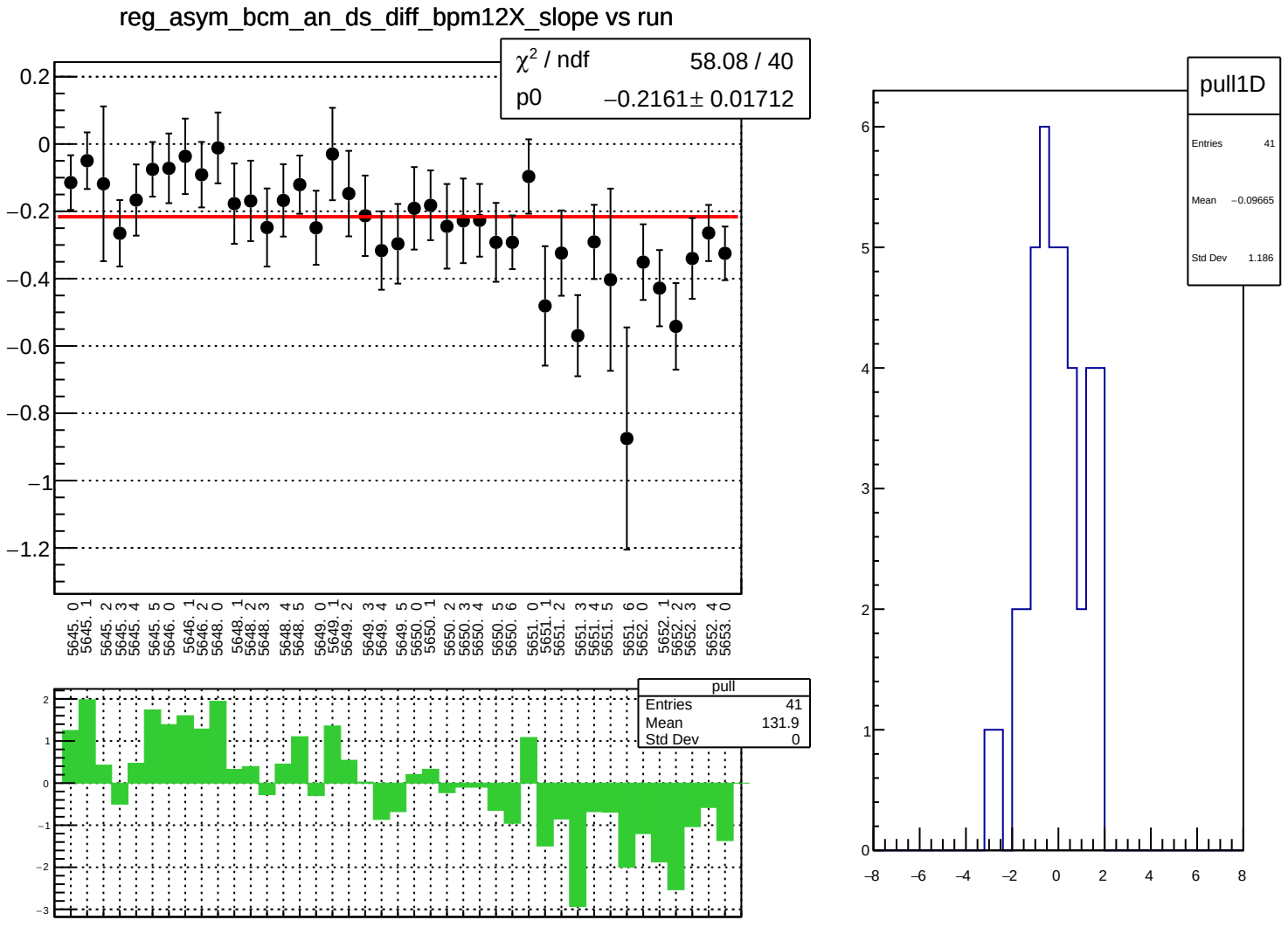

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 58.05 / 40
p0 −0.2174 ± 0.01724
pull
Entries 41
Mean 130.6
Std Dev 0
pull1D
Entries 41
Mean −0.09799
Std Dev 1.186

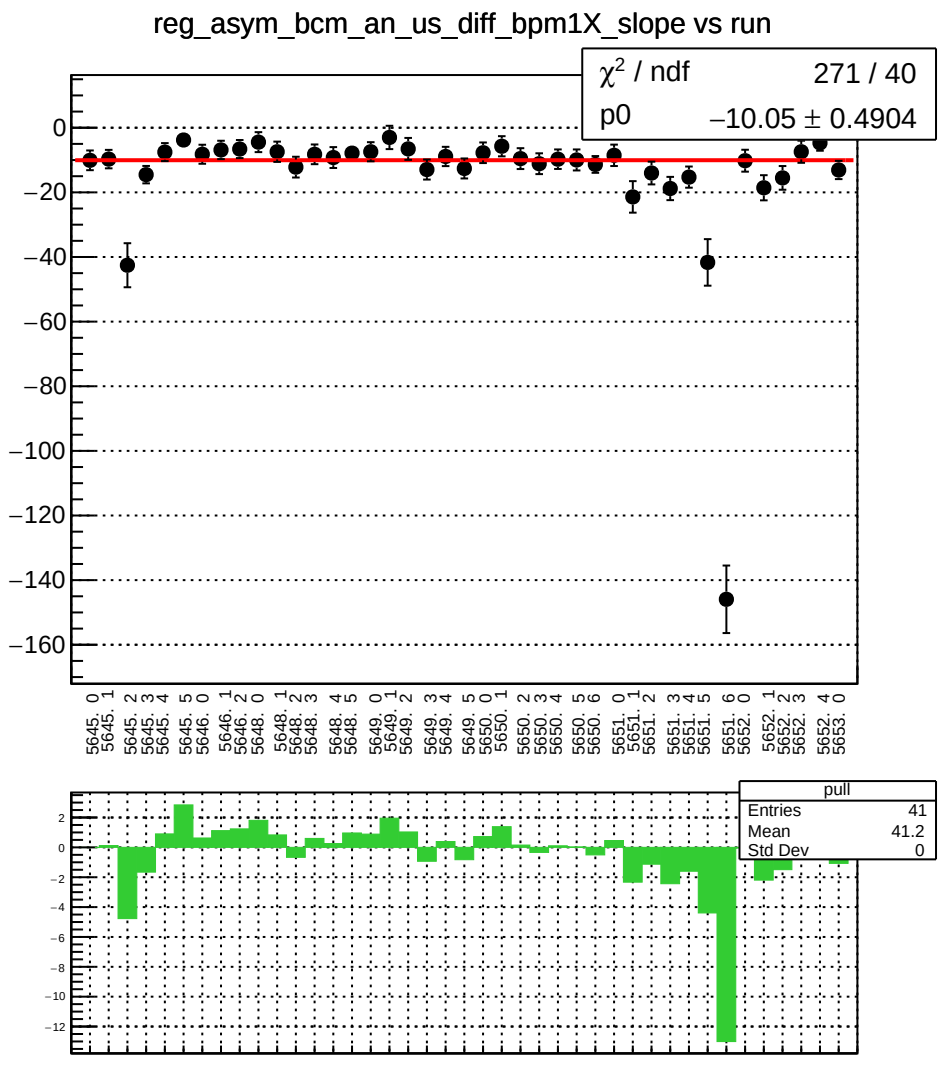

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 270.7 / 40
p0 −10.03 ± 0.487
pull
Entries 41
Mean 41.22
Std Dev 0
pull1D
Entries 41
Mean −0.1229
Std Dev 1.597

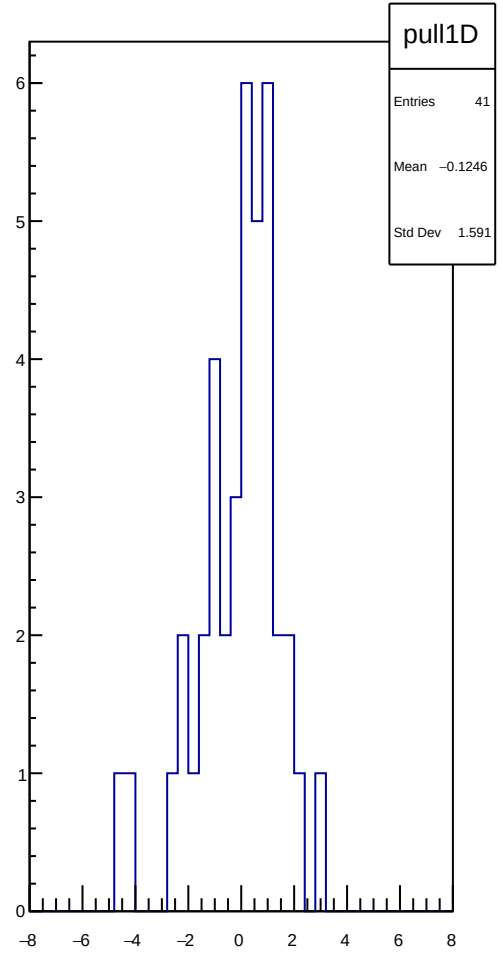

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 55.52 / 40
p0 5.961 ± 0.4056
pull
Entries 41
Mean 0.8358
Std Dev 0
pull1D
Entries 41
Mean 0.09893
Std Dev 1.16

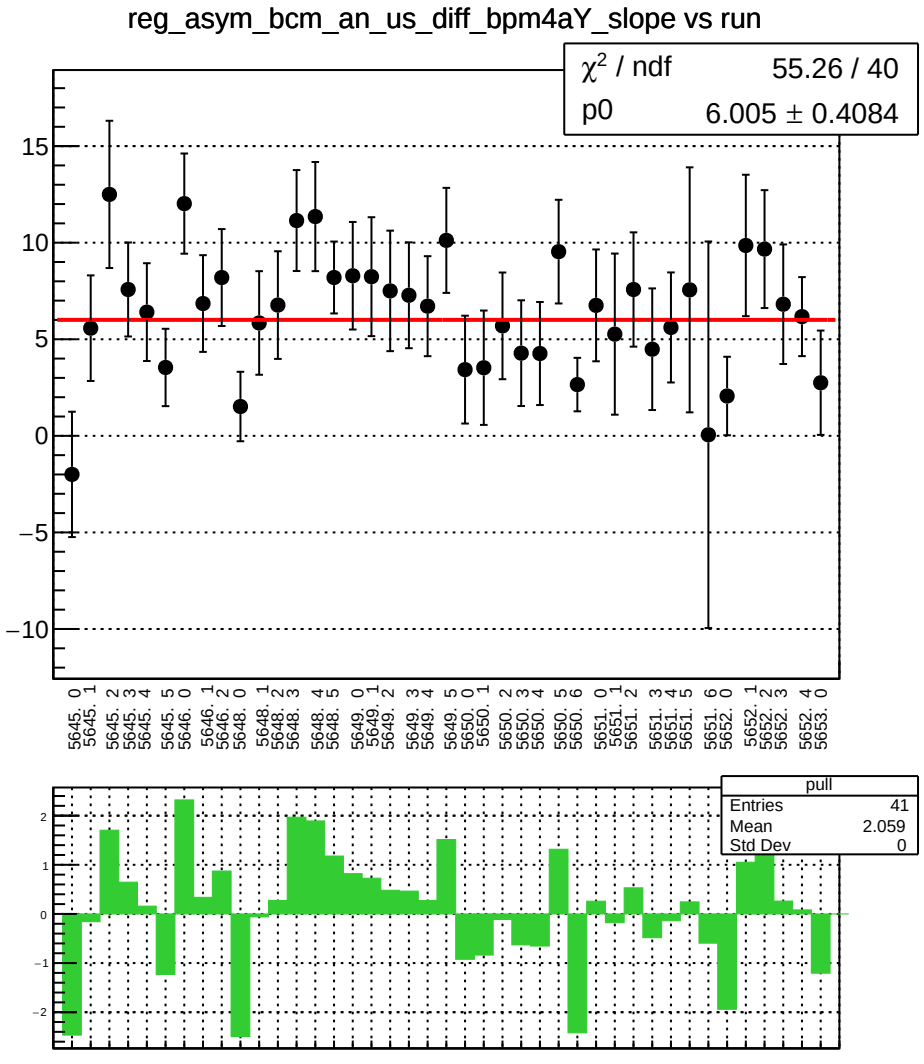

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 271.1 / 40
p0 8.51 ± 0.4205
pull
Entries 41
Mean 41.16
Std Dev 0
pull1D
Entries 41
Mean 0.1257
Std Dev 1.603

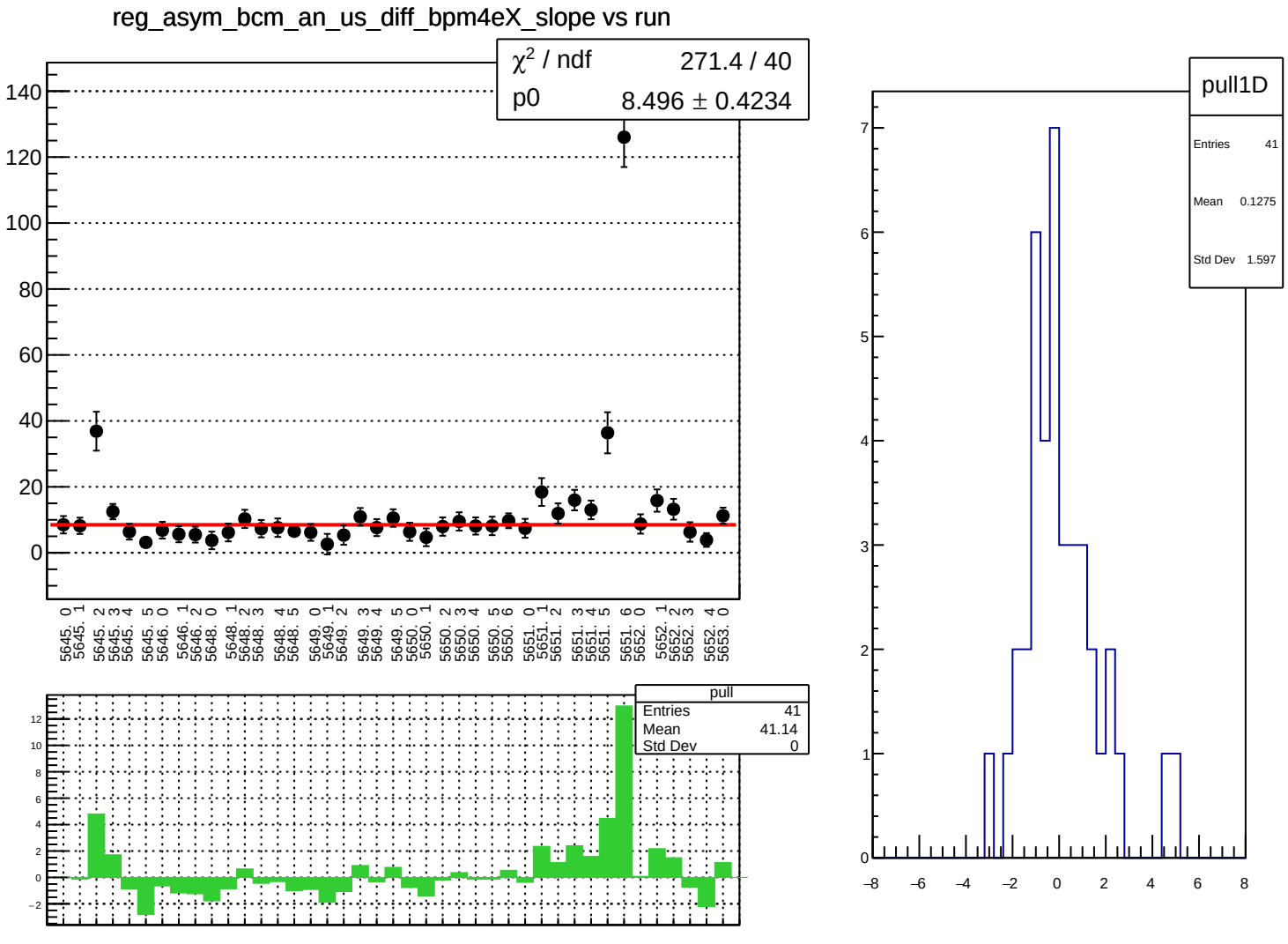

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 63.16 / 40
p0 −9.859 ± 0.5096
pull
Entries 41
Mean −8.819
Std Dev 0
pull1D
Entries 41
Mean −0.1216
Std Dev 1.235

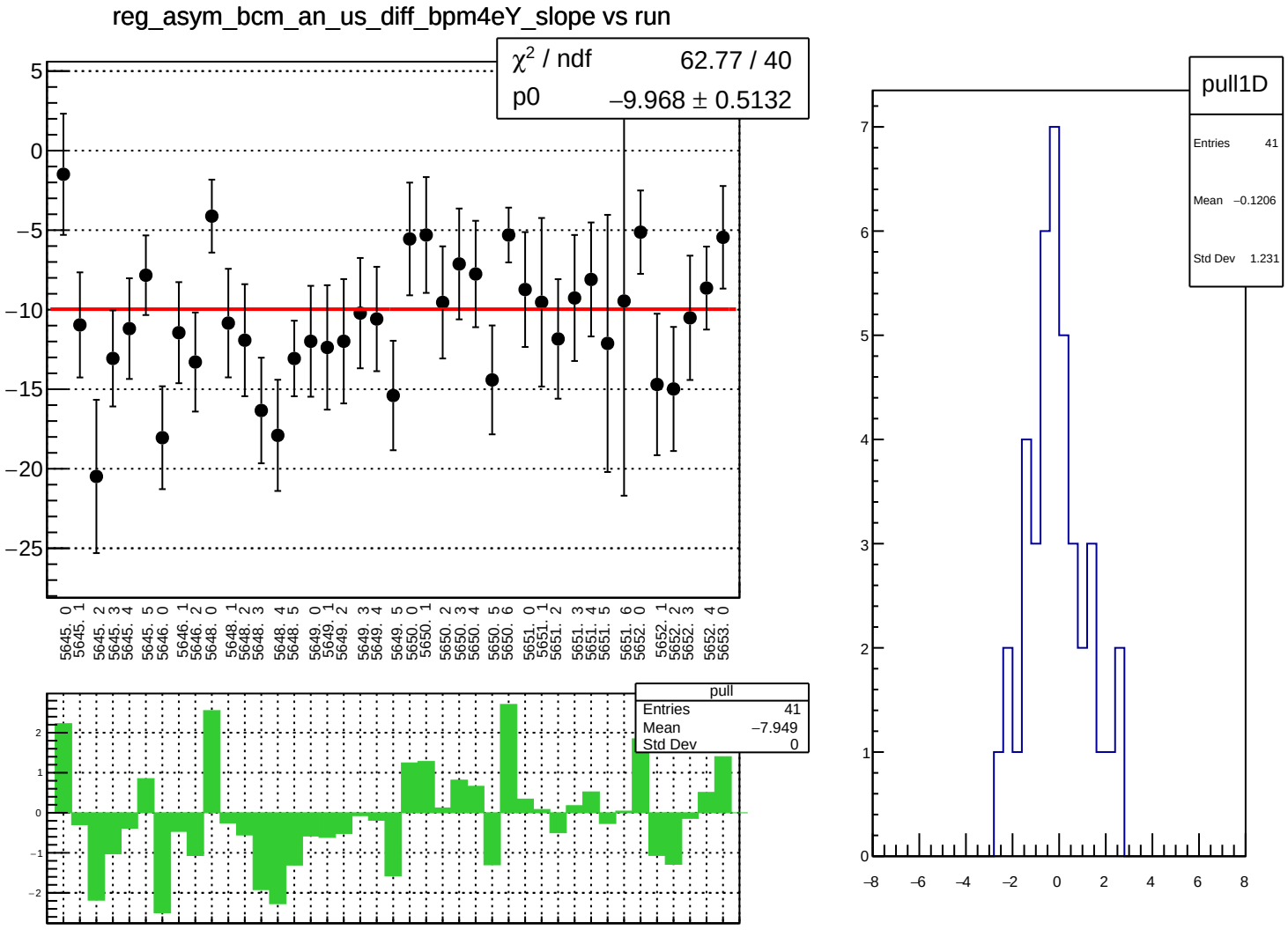

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 58.08 / 40
p0 −0.2161± 0.01712
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 131.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.09665
Std Dev 1.186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

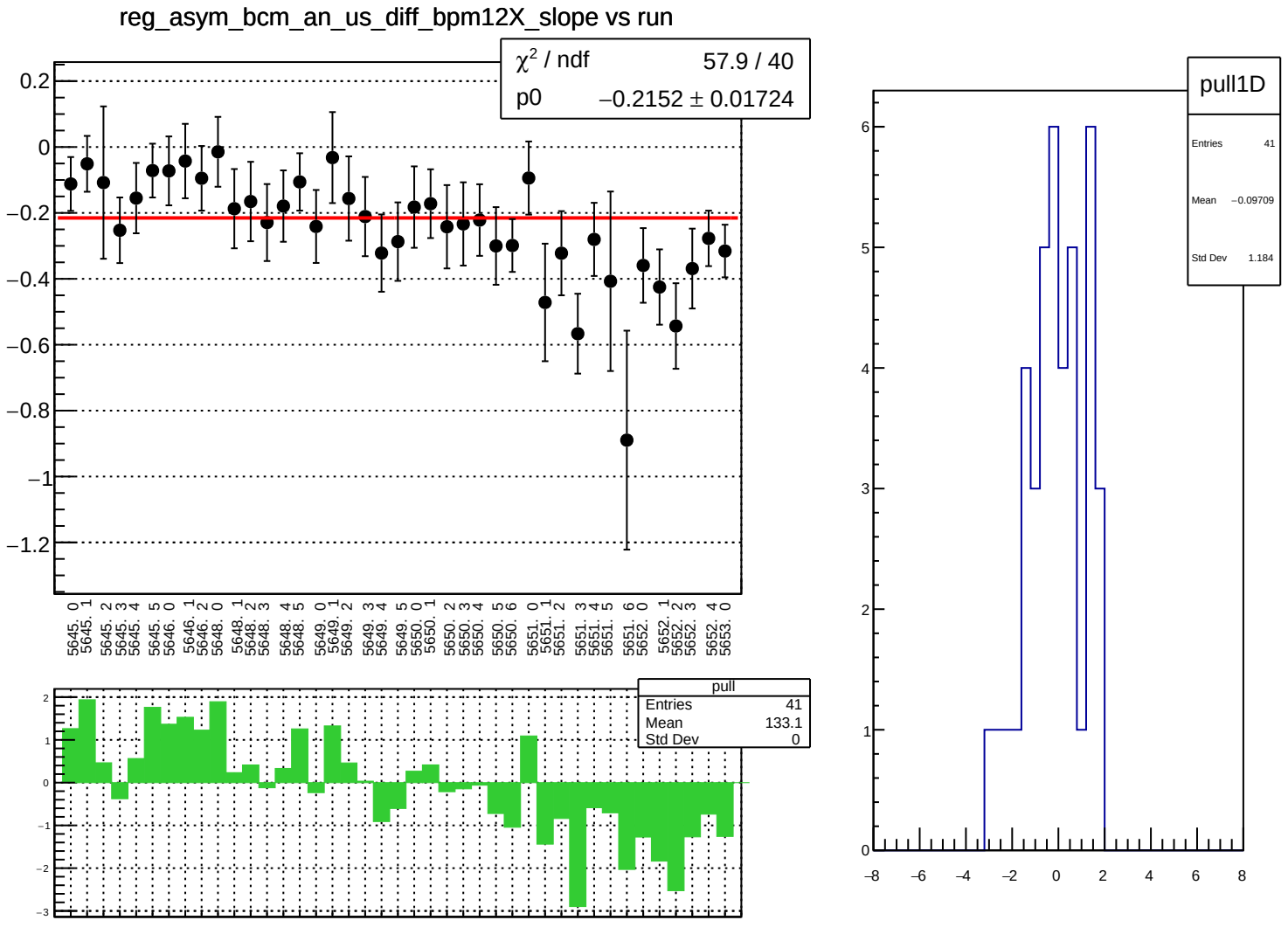

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 271 / 40
p0 −10.05 ± 0.4904
pull
Entries 41
Mean 41.2
Std Dev 0

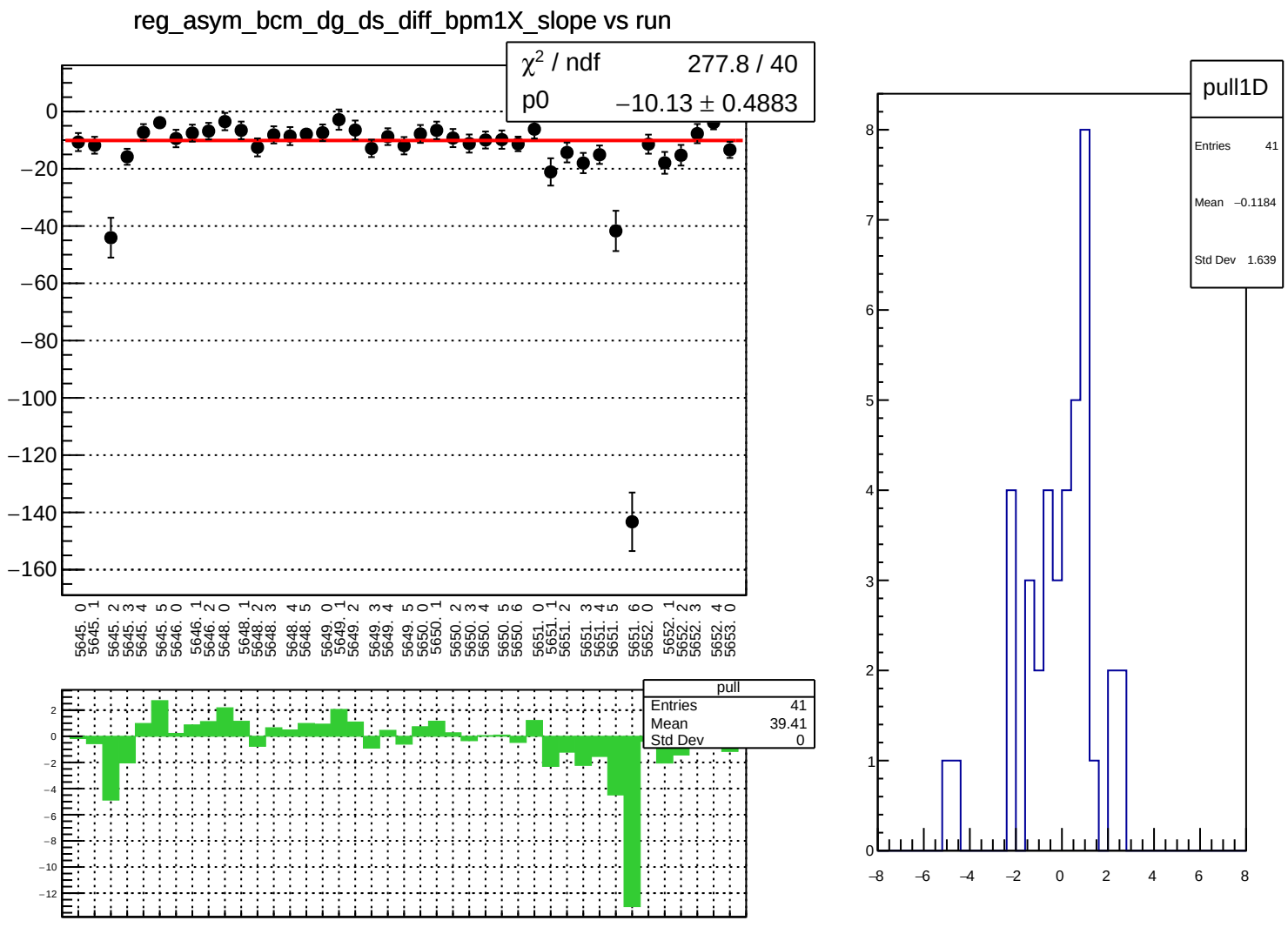

pull1D
Entries 41
Mean −0.1246
Std Dev 1.591

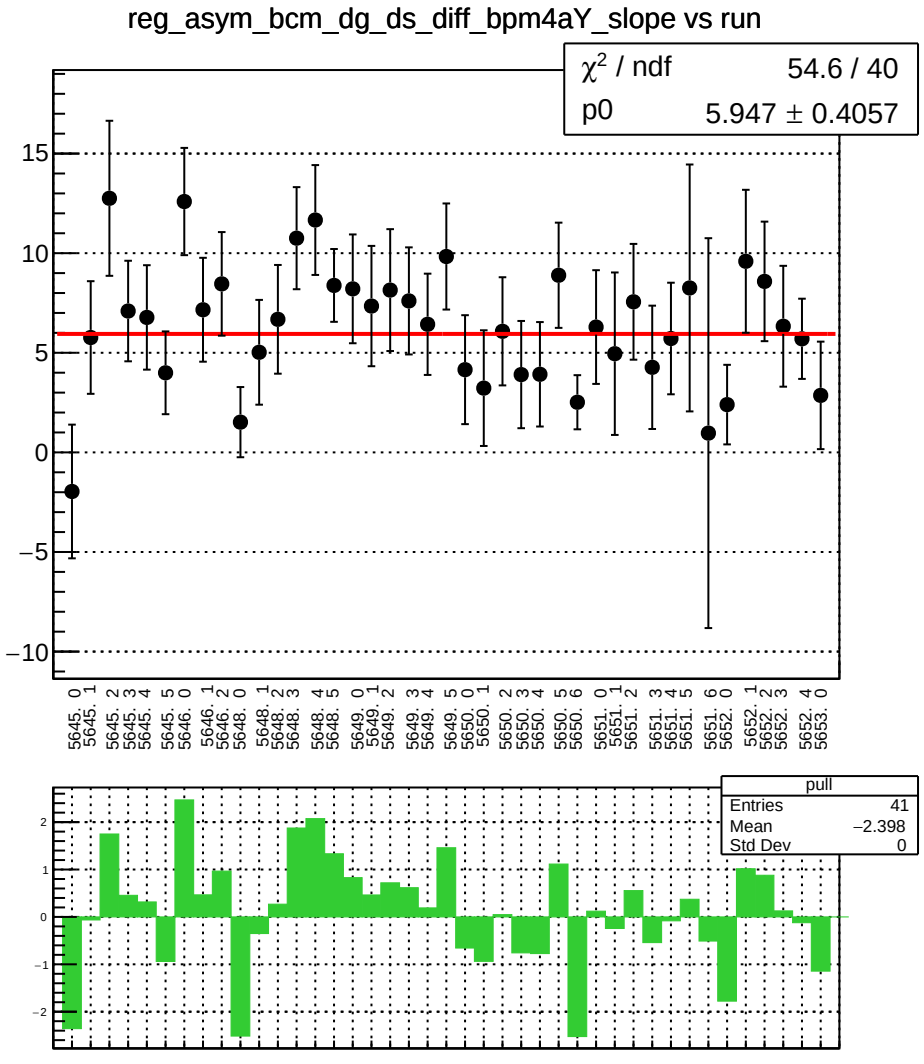

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 55.26 / 40
p0 6.005 ± 0.4084
pull
Entries 41
Mean 2.059
Std Dev 0
pull1D
Entries 41
Mean 0.09879
Std Dev 1.157

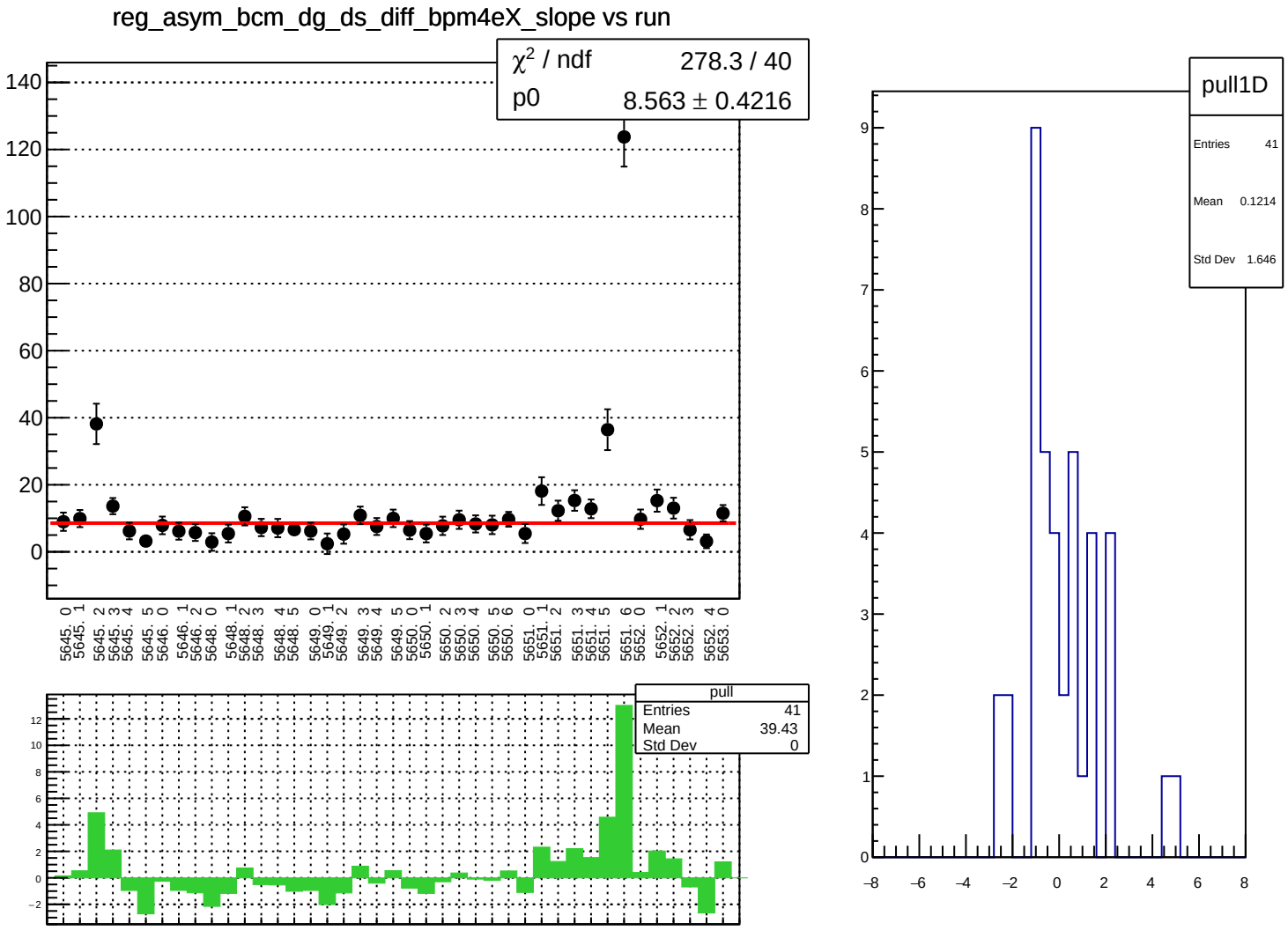

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 271.4 / 40
p0 8.496 ± 0.4234
pull
Entries 41
Mean 41.14
Std Dev 0
pull1D
Entries 41
Mean 0.1275
Std Dev 1.597

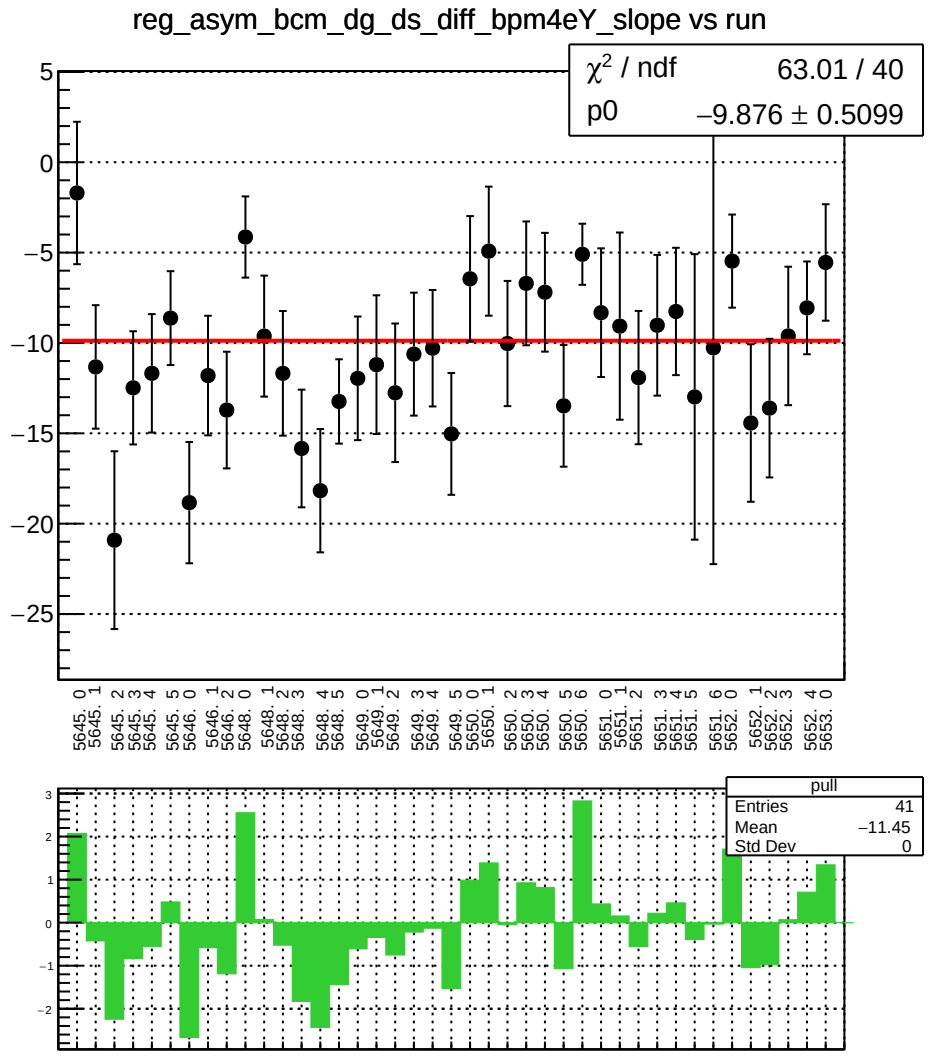

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 62.77 / 40
p0 −9.968 ± 0.5132
pull
Entries 41
Mean −7.949
Std Dev 0
pull1D
Entries 41
Mean −0.1206
Std Dev 1.231

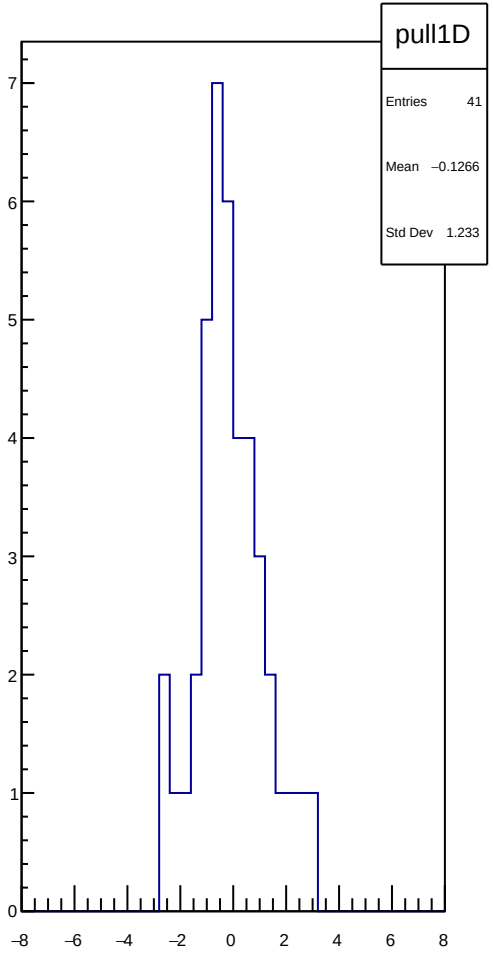

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 57.9 / 40
p0 −0.2152 ± 0.01724
pull
Entries 41
Mean 133.1
Std Dev 0
pull1D
Entries 41
Mean −0.09709
Std Dev 1.184

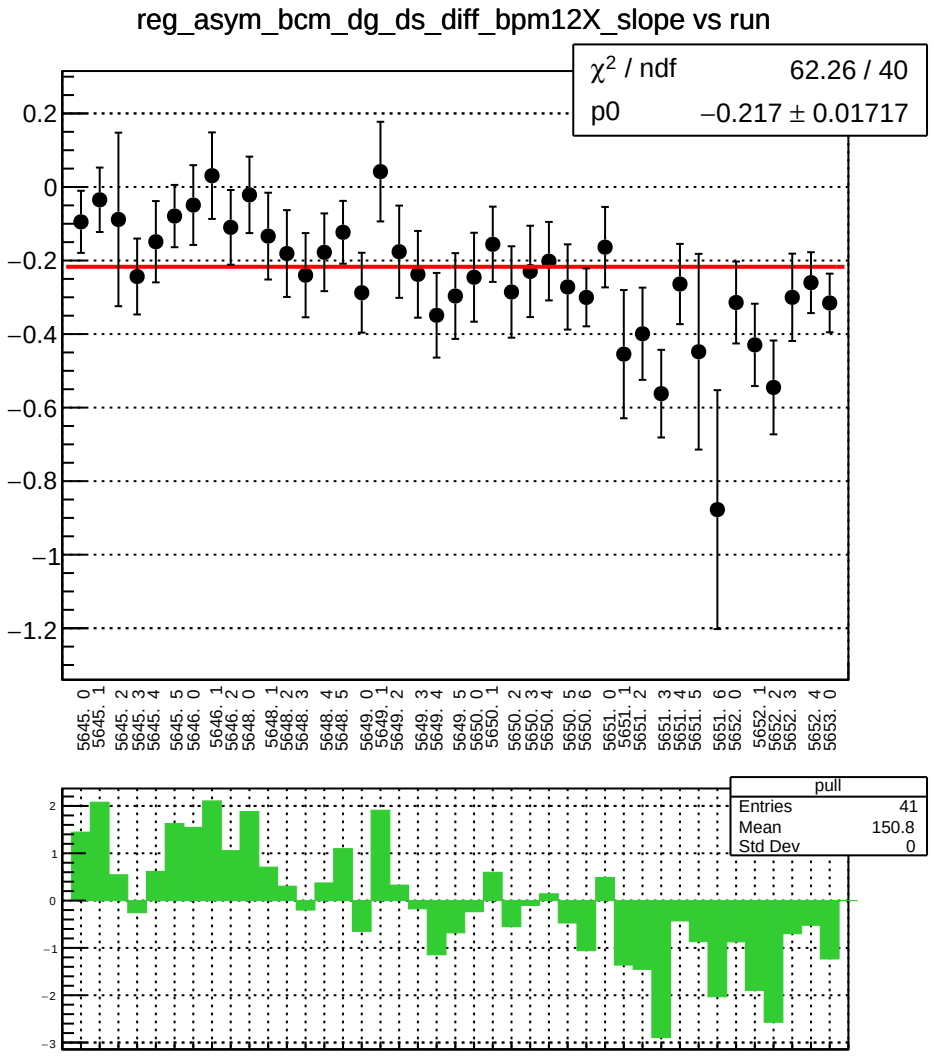

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 277.8 / 40
p0 −10.13 ± 0.4883
pull
Entries 41
Mean 39.41
Std Dev 0
pull1D
Entries 41
Mean −0.1184
Std Dev 1.639

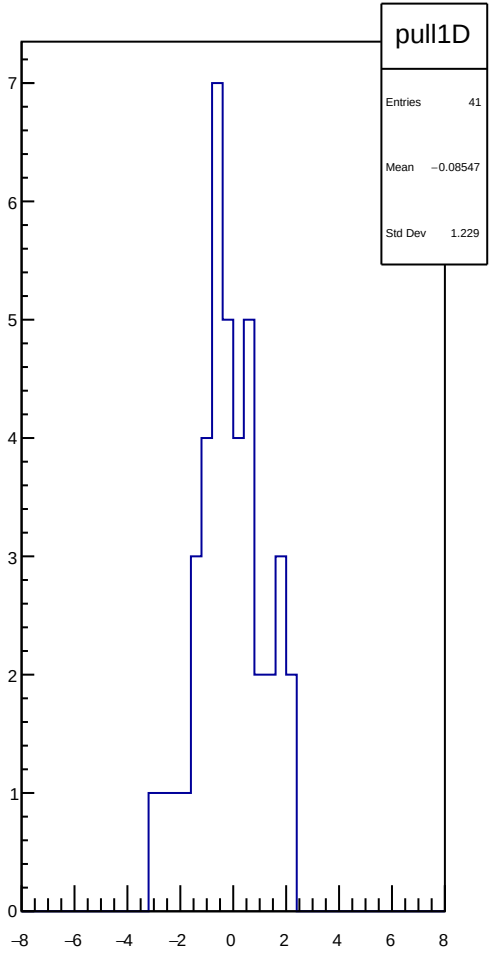

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 54.6 / 40
p0 5.947 ± 0.4057
pull
Entries 41
Mean −2.398
Std Dev 0
pull1D
Entries 41
Mean 0.1022
Std Dev 1.15

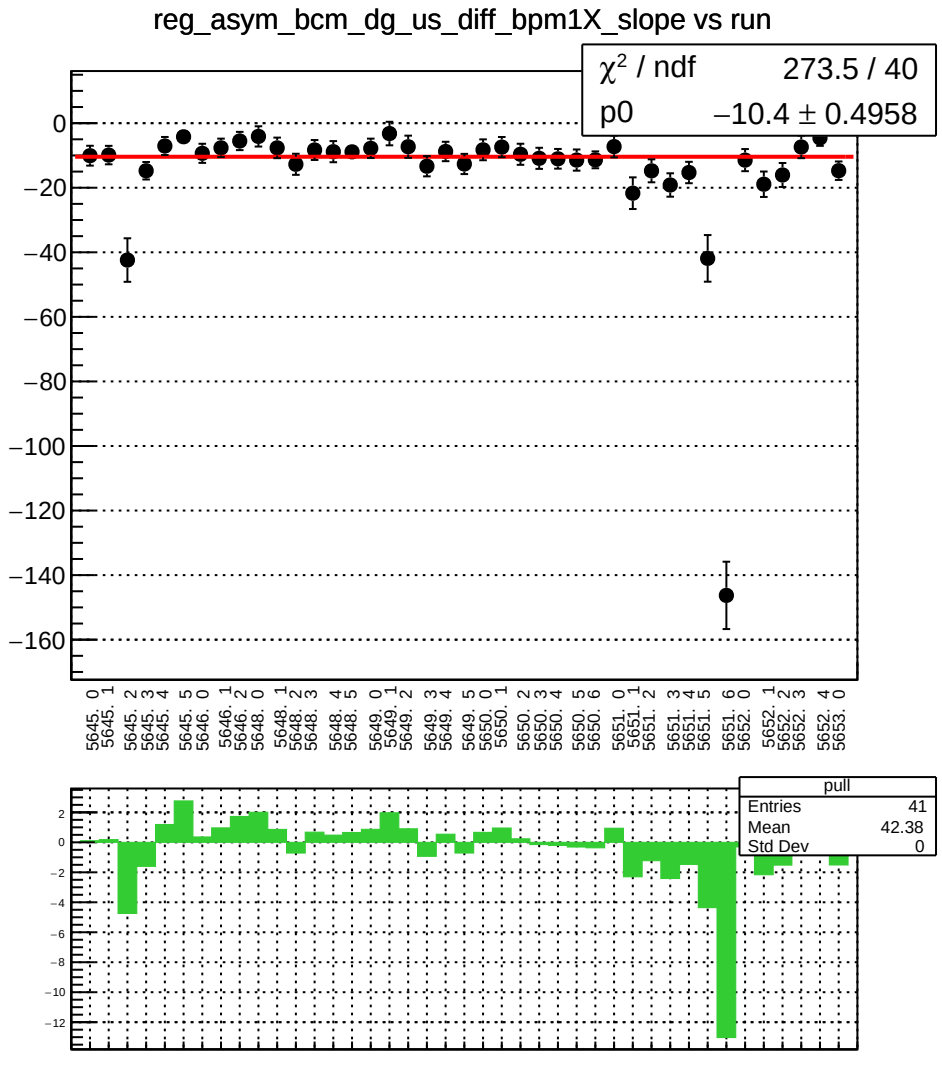

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 278.3 / 40
p0 8.563 ± 0.4216
pull
Entries 41
Mean 39.43
Std Dev 0
pull1D
Entries 41
Mean 0.1214
Std Dev 1.646

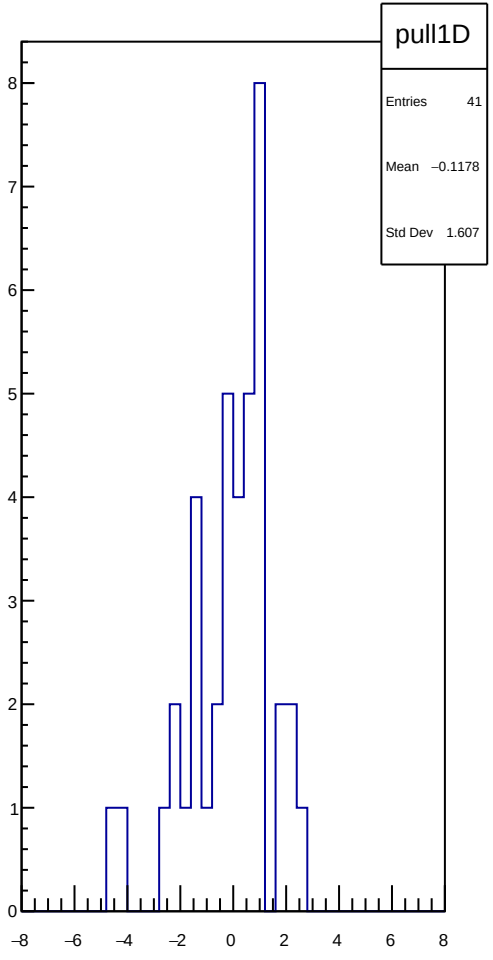

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 63.01 / 40
p0 −9.876 ± 0.5099
pull
Entries 41
Mean −11.45
Std Dev 0

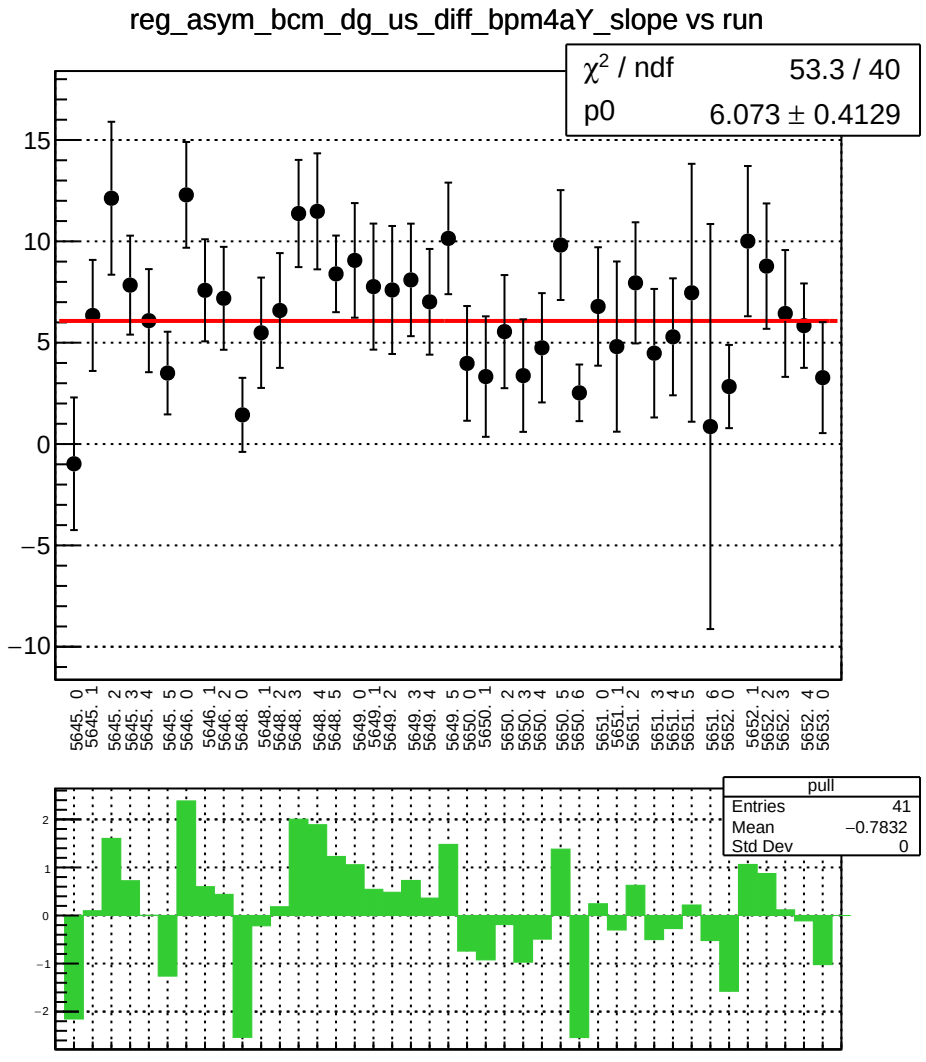

pull1D
Entries 41
Mean −0.1266
Std Dev 1.233

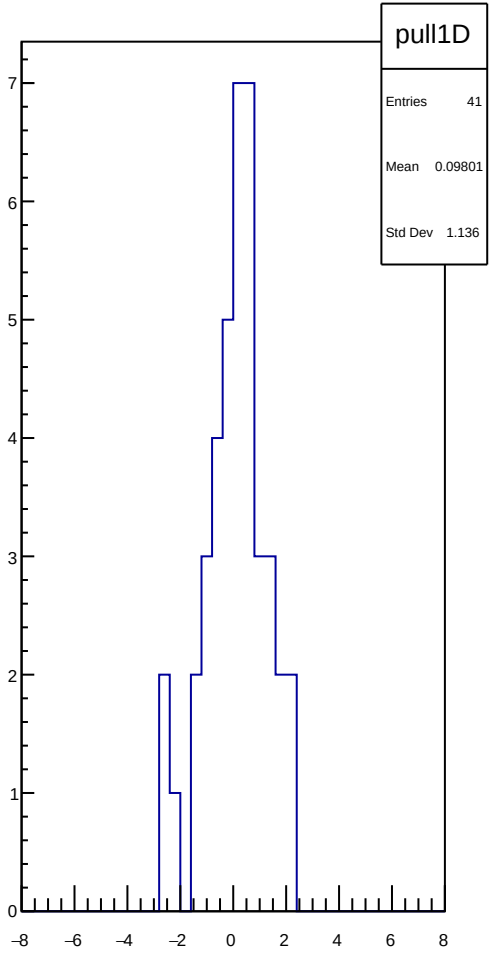

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 62.26 / 40
p0 −0.217 ± 0.01717
pull
Entries 41
Mean 150.8
Std Dev 0

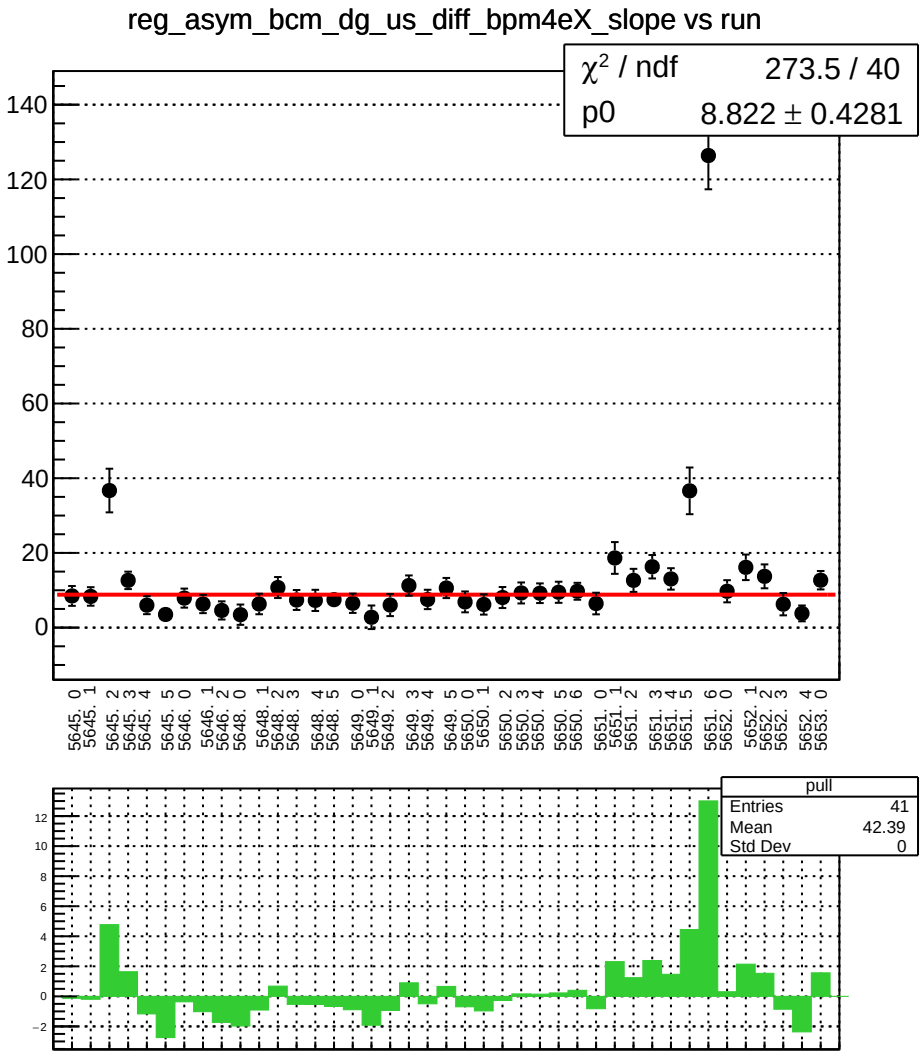

pull1D
Entries 41
Mean −0.08547
Std Dev 1.229

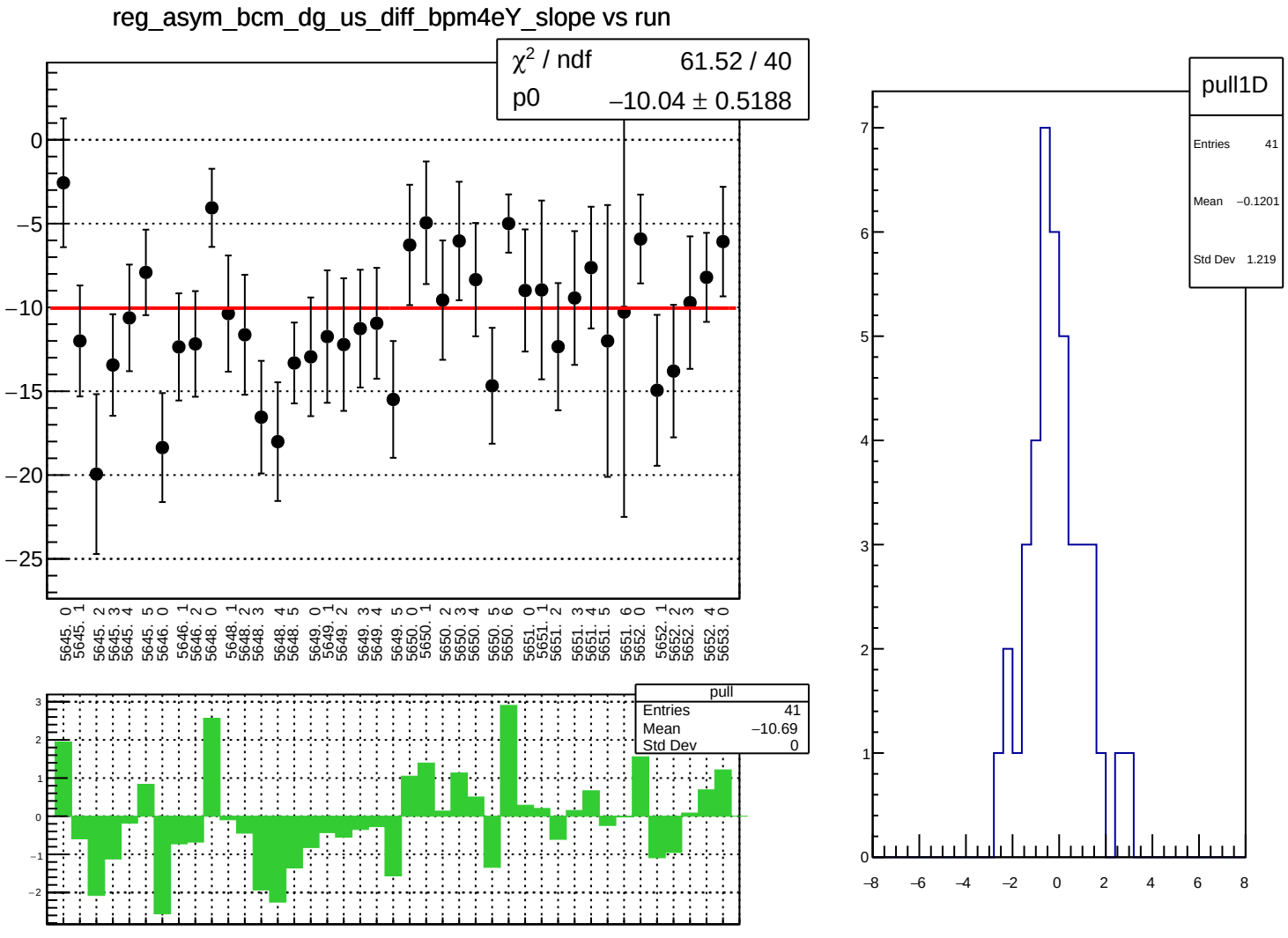

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 273.5 / 40
p0 −10.4 ± 0.4958
pull
Entries 41
Mean 42.38
Std Dev 0

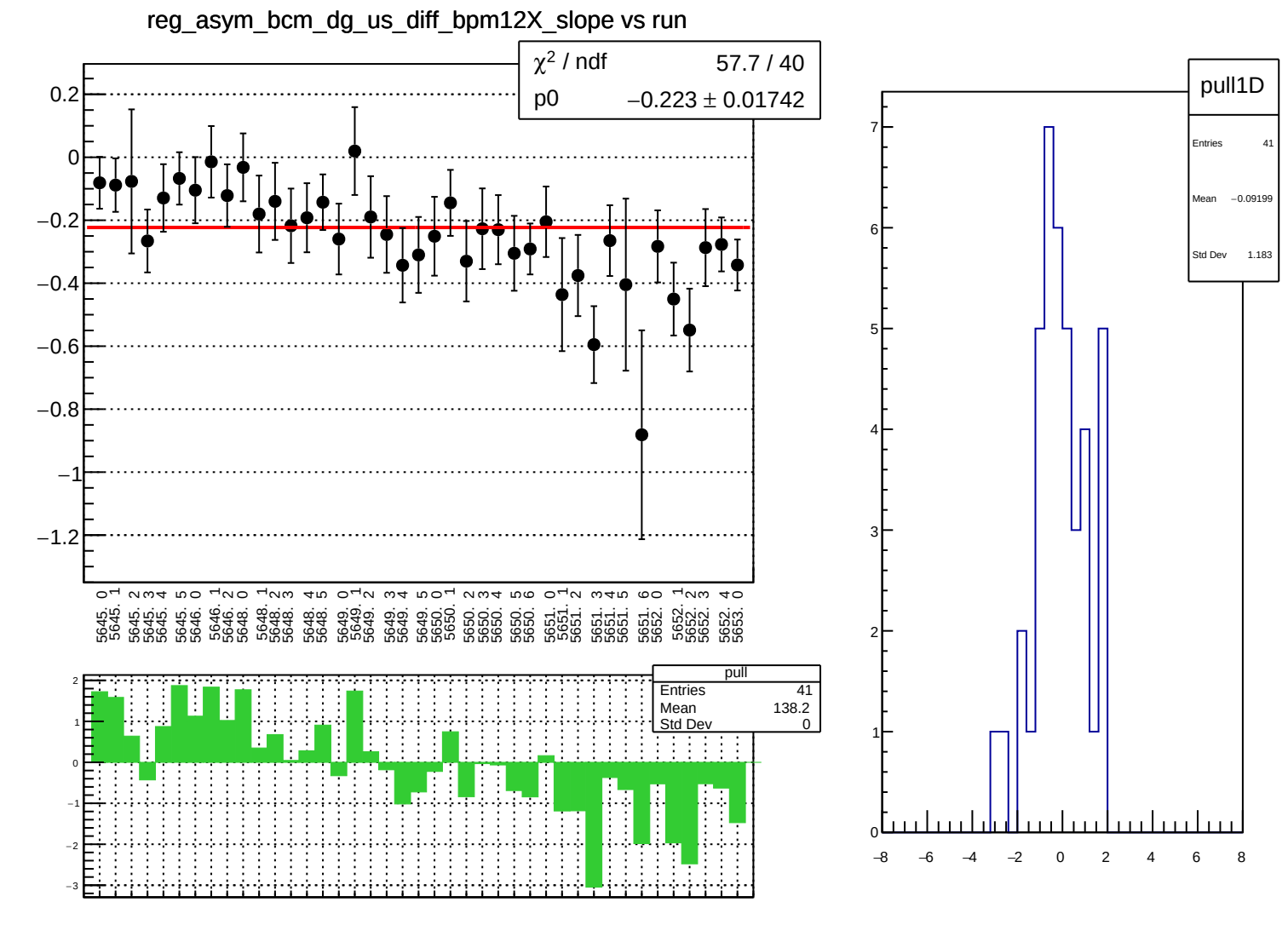

pull1D
Entries 41
Mean −0.1178
Std Dev 1.607

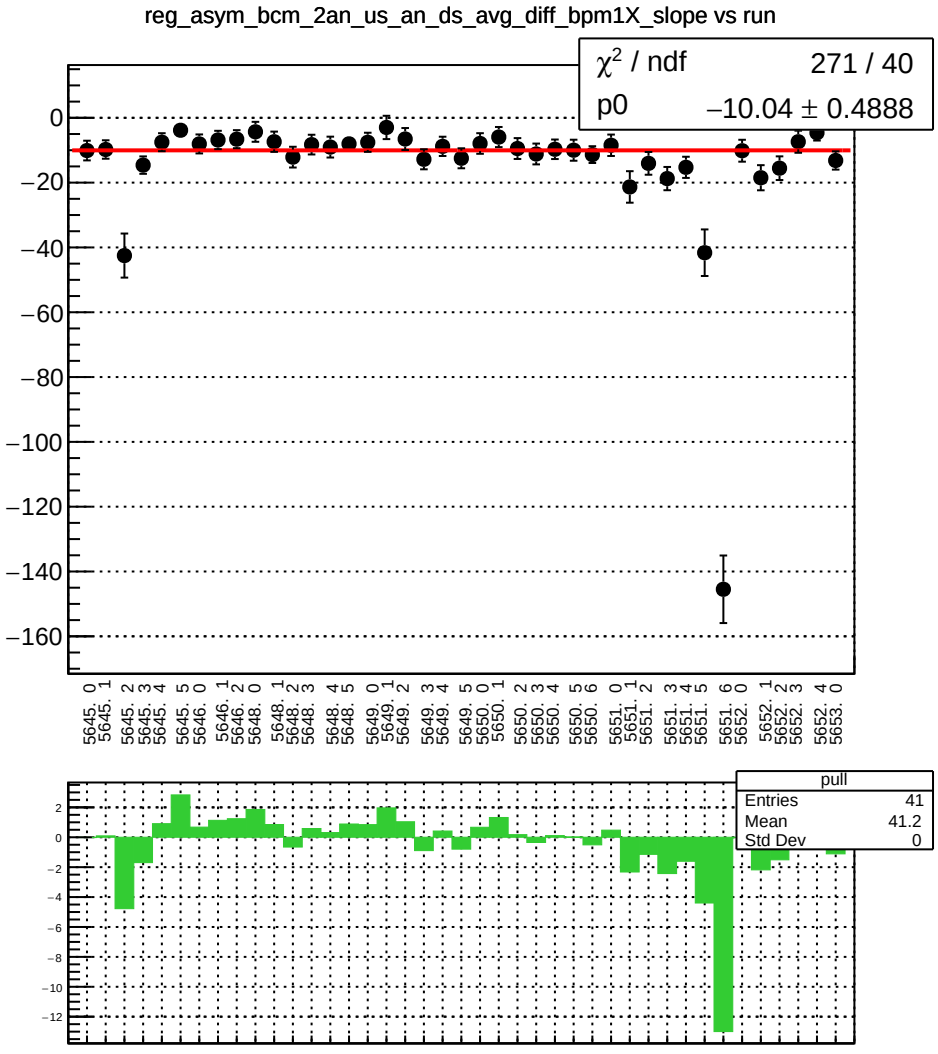

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 53.3 / 40
p0 6.073 ± 0.4129
pull
Entries 41
Mean −0.7832
Std Dev 0

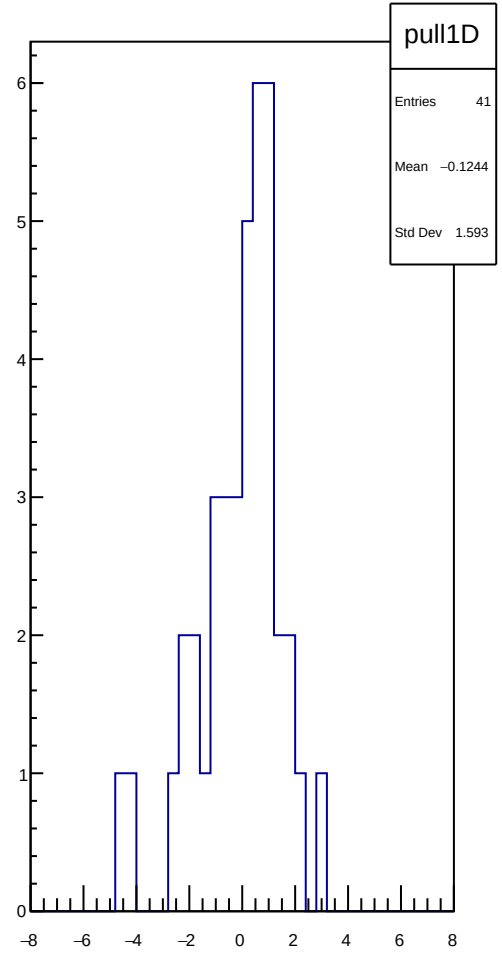

pull1D
Entries 41
Mean 0.09801
Std Dev 1.136

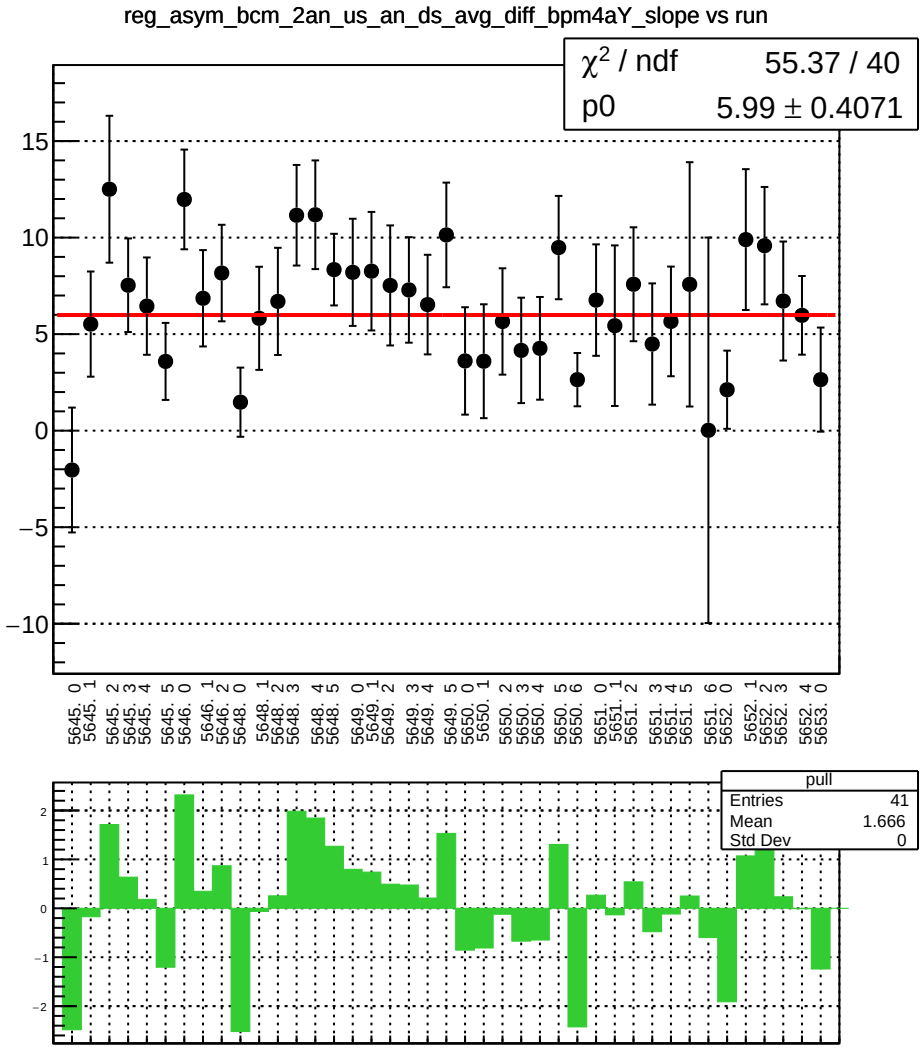

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 273.5 / 40
p0 8.822 ± 0.4281
pull
Entries 41
Mean 42.39
Std Dev 0
pull1D
Entries 41
Mean 0.1204
Std Dev 1.61

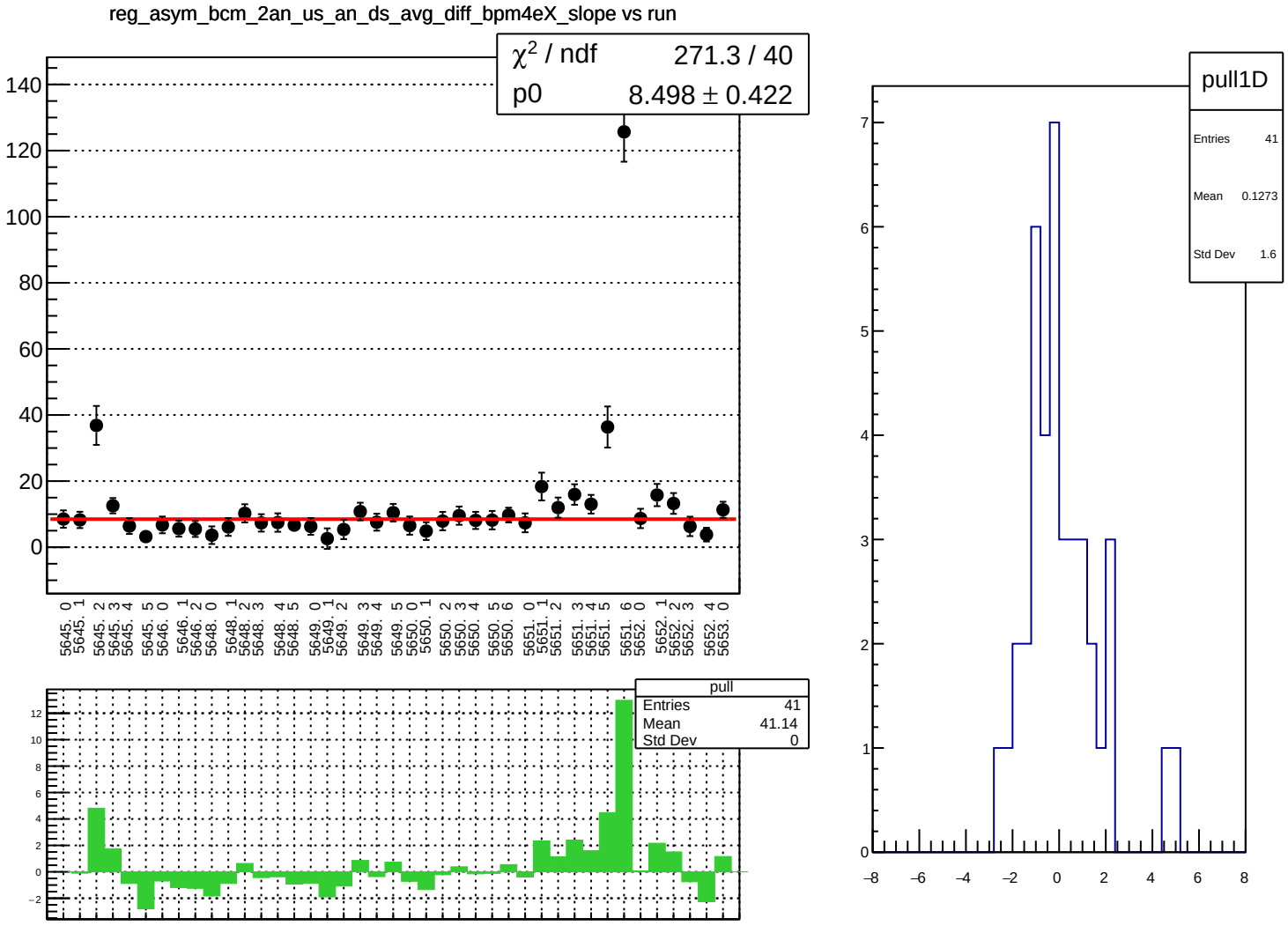

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 61.52 / 40
p0 −10.04 ± 0.5188
pull
Entries 41
Mean −10.69
Std Dev 0
pull1D
Entries 41
Mean −0.1201
Std Dev 1.219

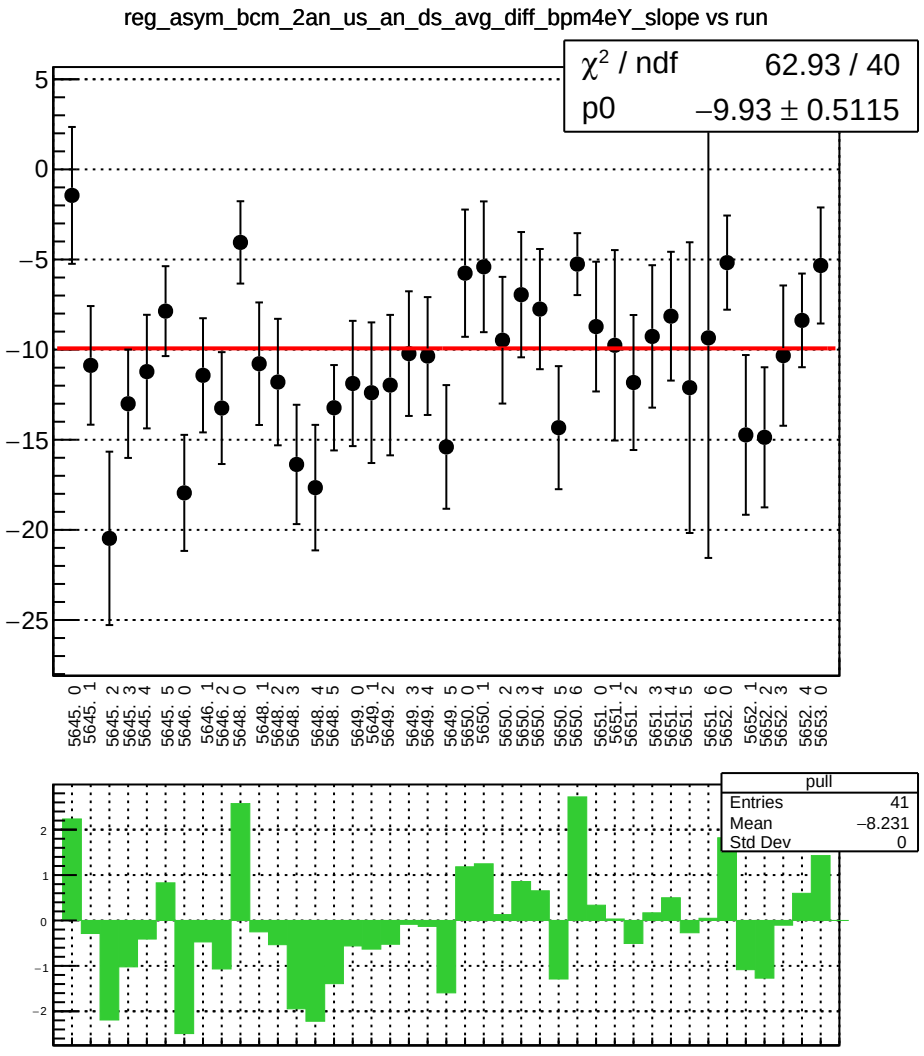

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 57.7 / 40
p0 −0.223 ± 0.01742
pull
Entries 41
Mean 138.2
Std Dev 0
pull1D
Entries 41
Mean −0.09199
Std Dev 1.183

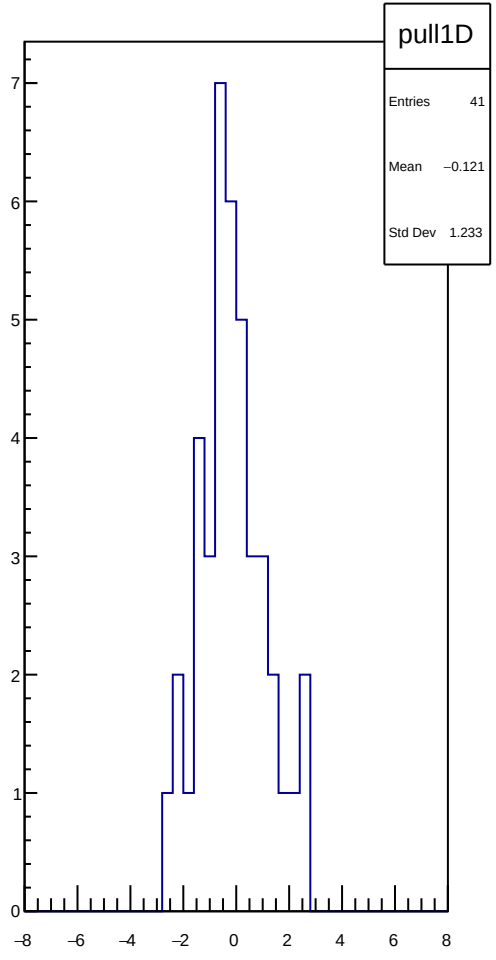

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 271 / 40
p0 −10.04 ± 0.4888
pull
Entries 41
Mean 41.2
Std Dev 0

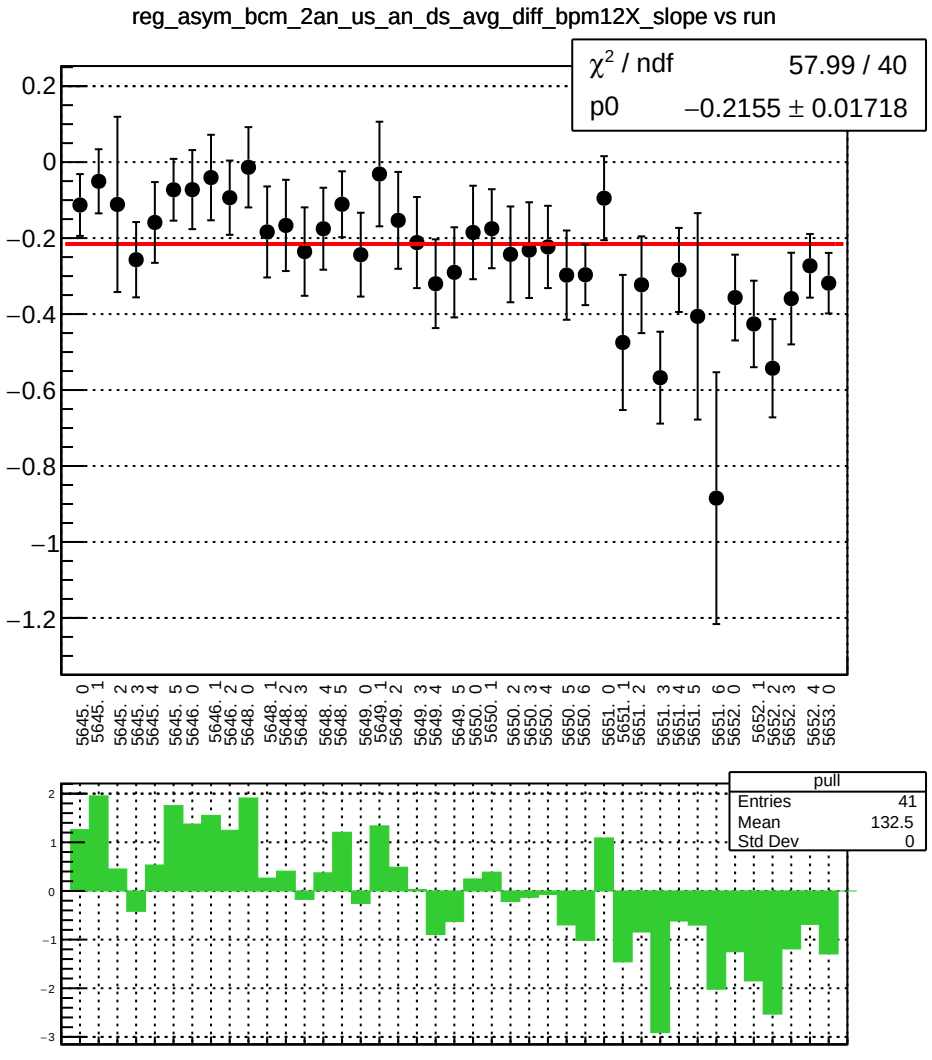

pull1D
Entries 41
Mean −0.1244
Std Dev 1.593

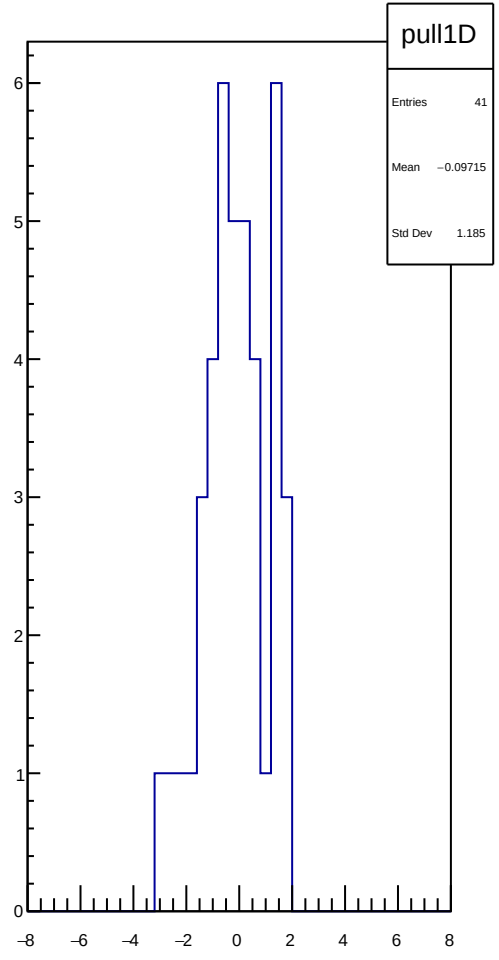

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.37 / 40
p0 5.99 ± 0.4071
pull
Entries 41
Mean 1.666
Std Dev 0
pull1D
Entries 41
Mean 0.09893
Std Dev 1.158

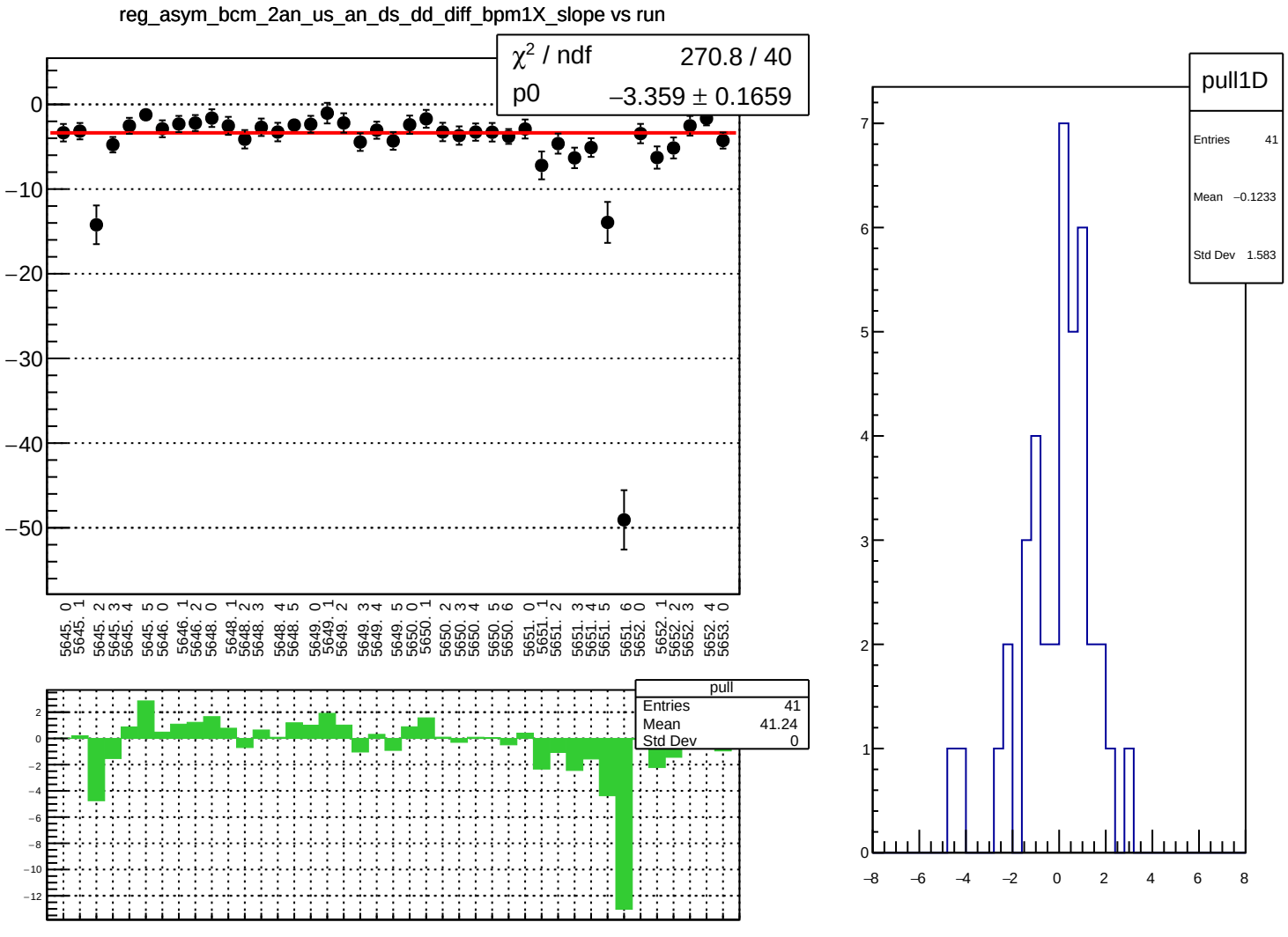

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 271.3 / 40
p0 8.498 ± 0.422
pull
Entries 41
Mean 41.14
Std Dev 0
pull1D
Entries 41
Mean 0.1273
Std Dev 1.6

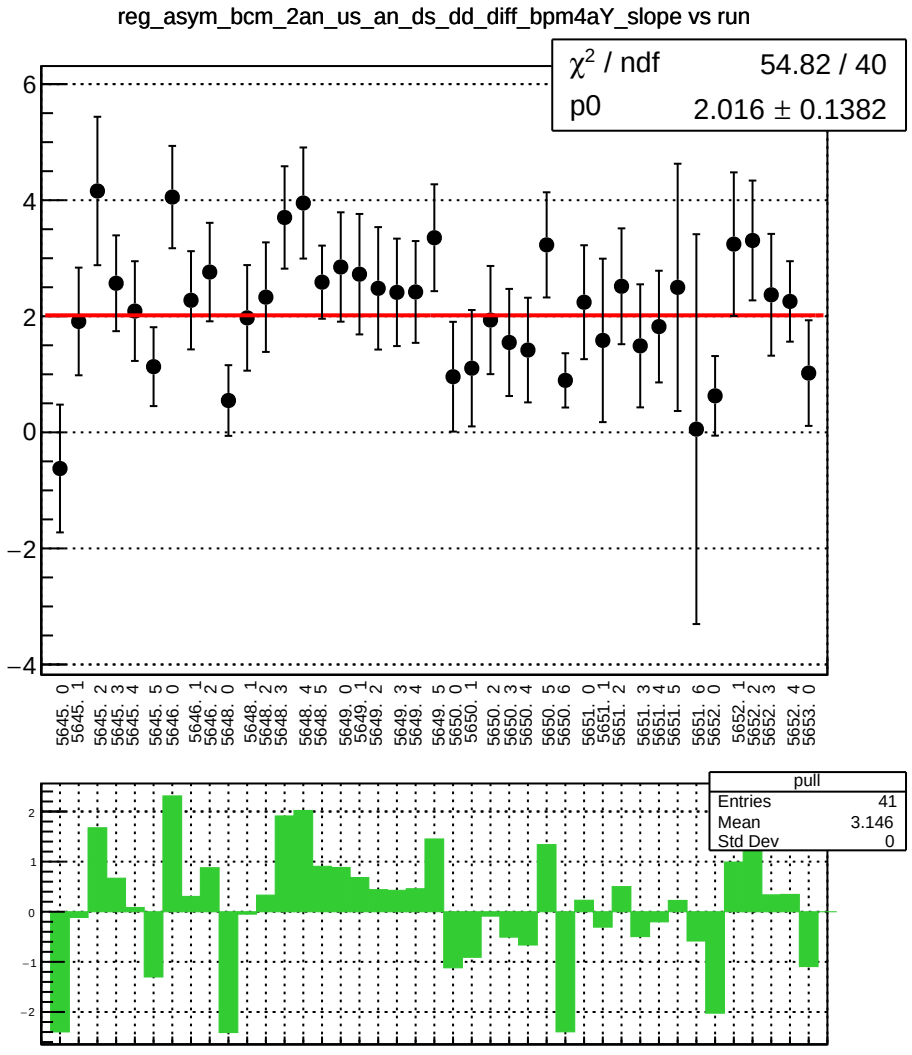

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 62.93 / 40
p0 −9.93 ± 0.5115
pull
Entries 41
Mean −8.231
Std Dev 0

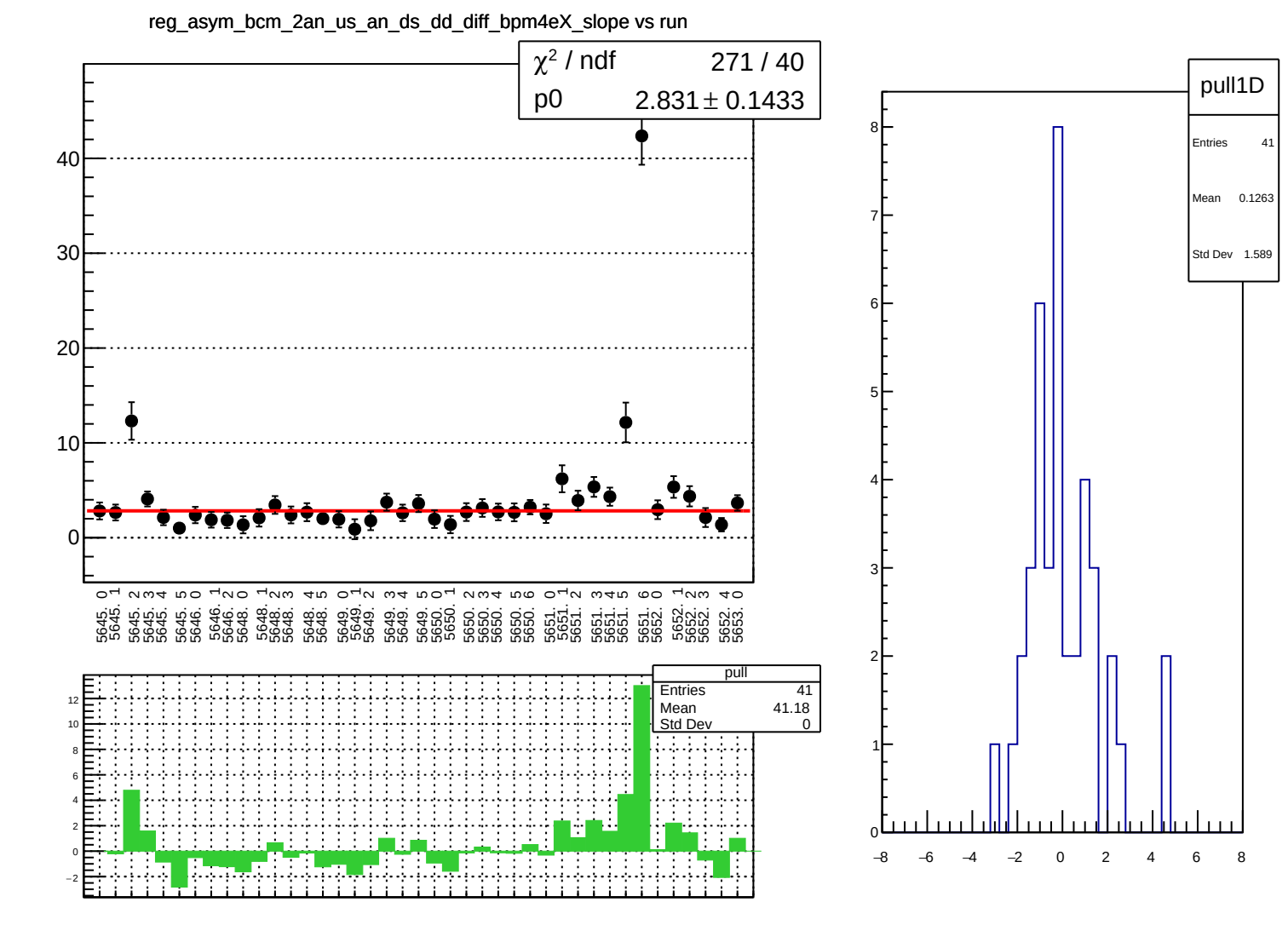

pull1D
Entries 41
Mean −0.121
Std Dev 1.233

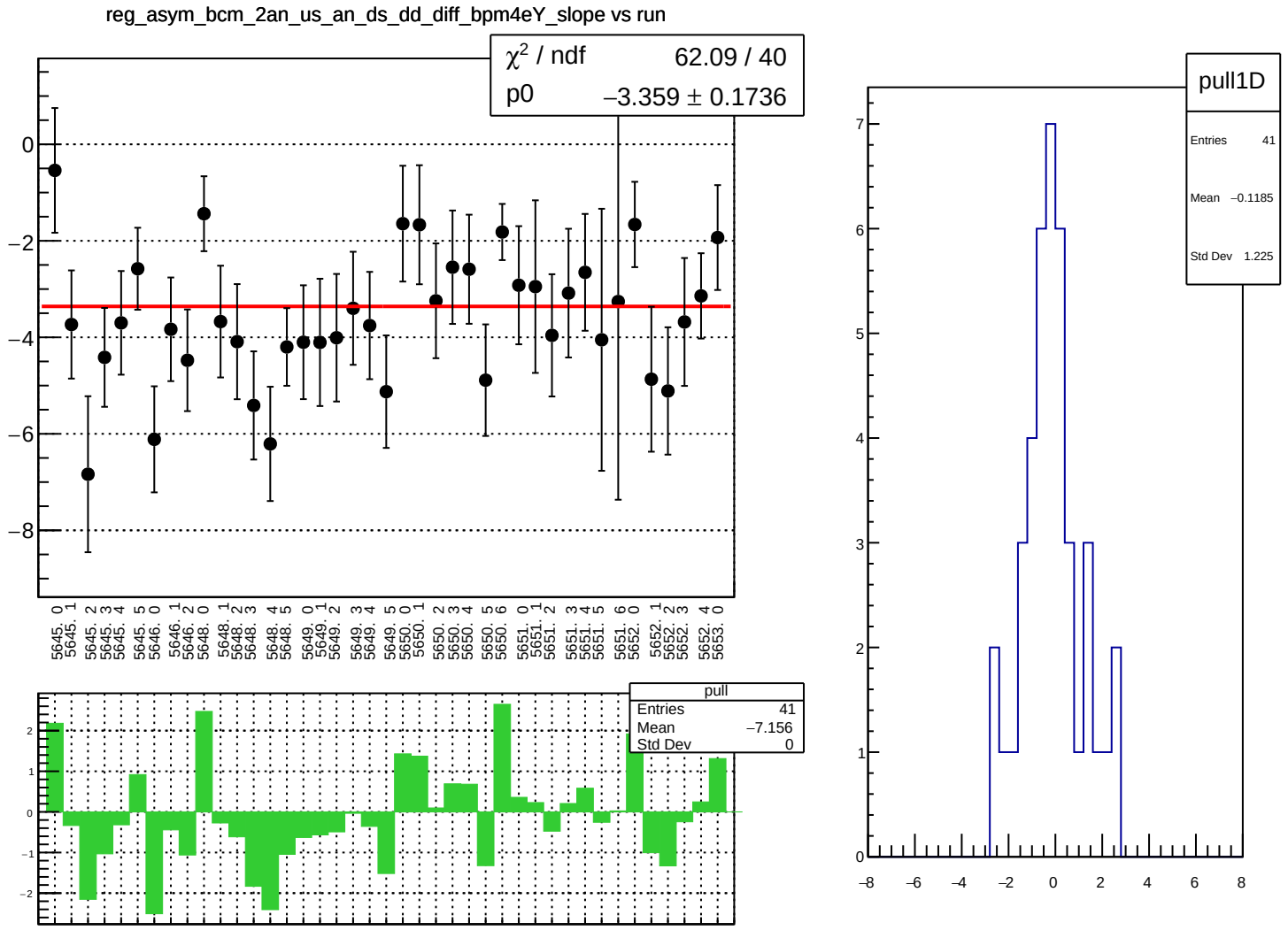

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 57.99 / 40
p0 −0.2155 ± 0.01718
pull
Entries 41
Mean 132.5
Std Dev 0

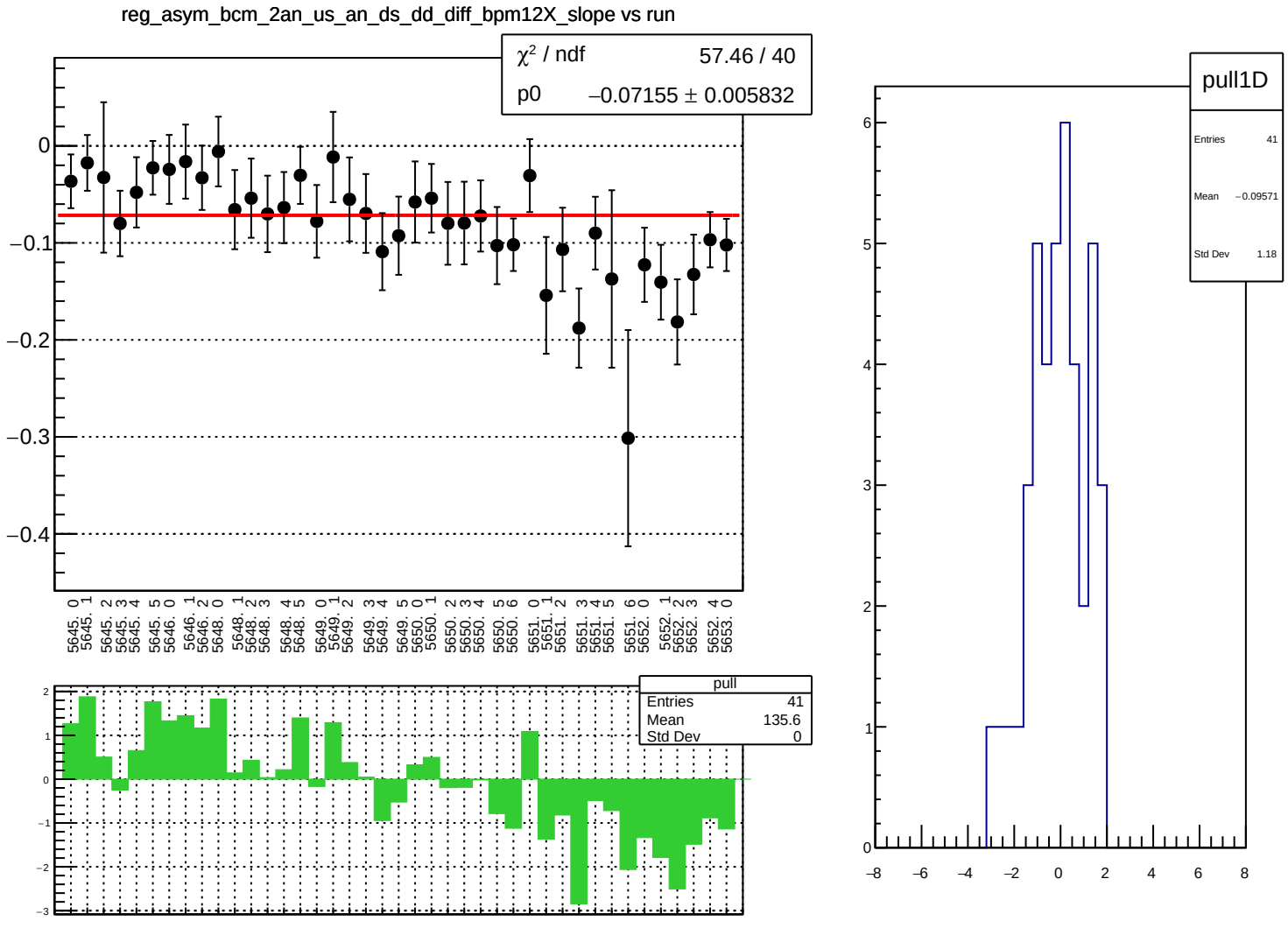

pull1D
Entries 41
Mean −0.09715
Std Dev 1.185

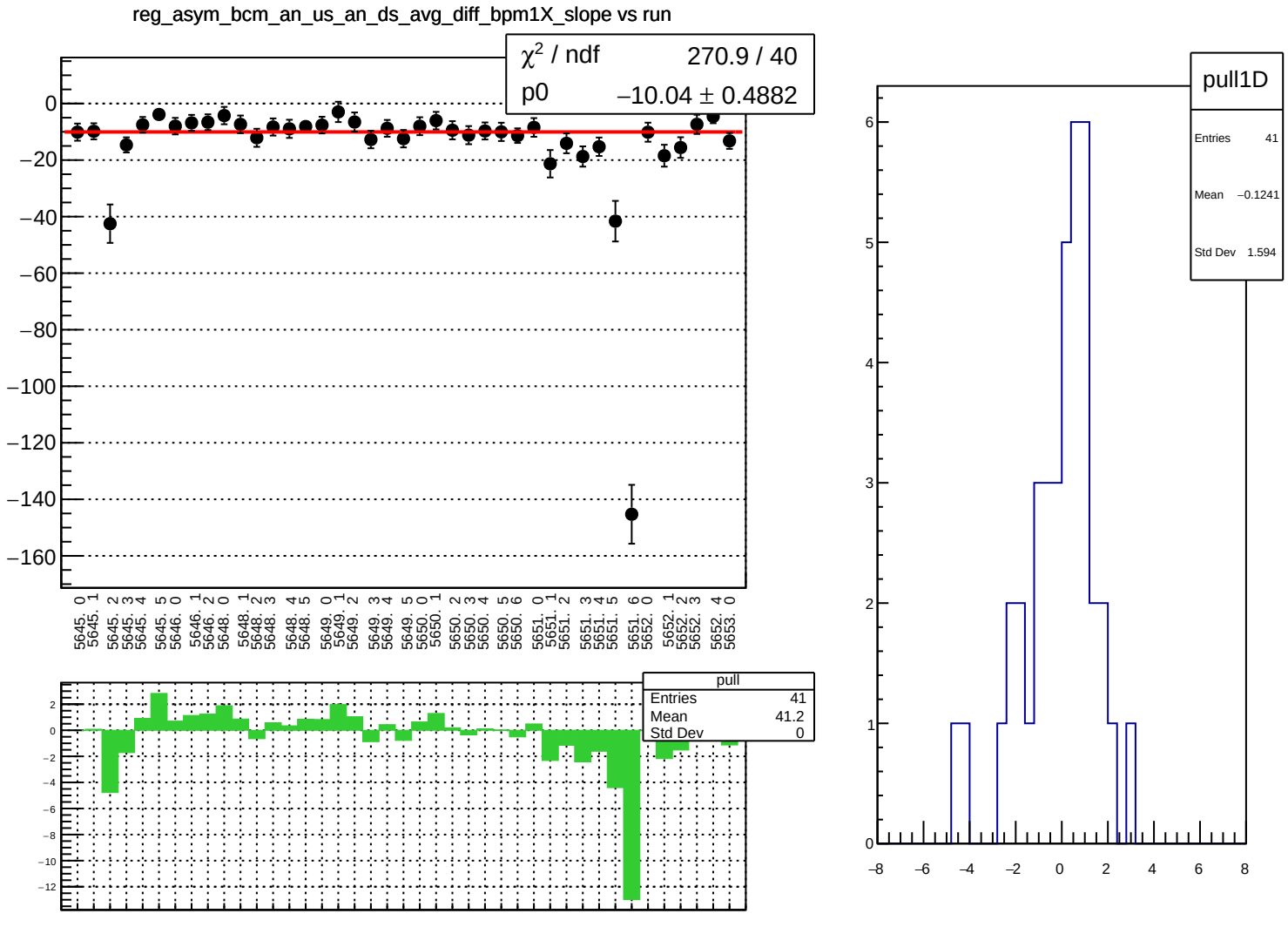

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 270.8 / 40
p0 −3.359 ± 0.1659
0
−10
−20
−30
−40
−50
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 41.24
Std Dev 0
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 41
Mean −0.1233
Std Dev 1.583
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

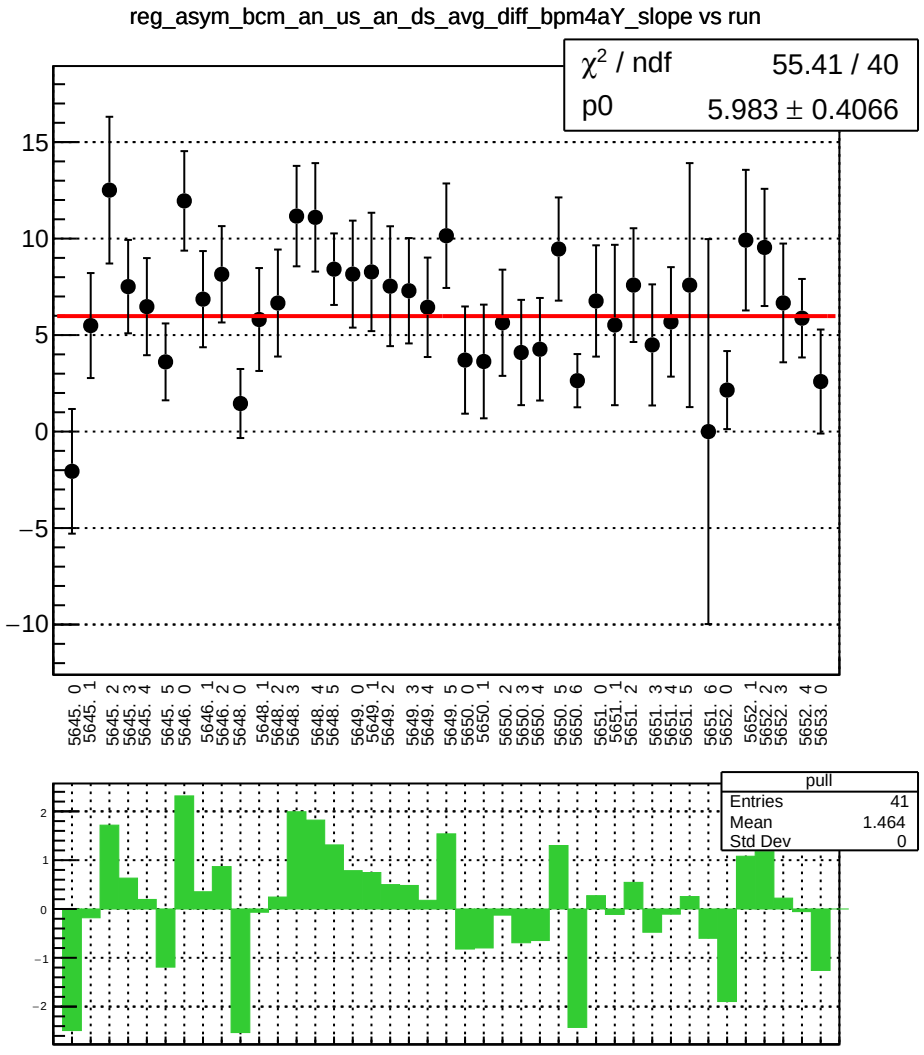

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.82 / 40
p0 2.016 ± 0.1382
pull
Entries 41
Mean 3.146
Std Dev 0
pull1D
Entries 41
Mean 0.09778
Std Dev 1.152

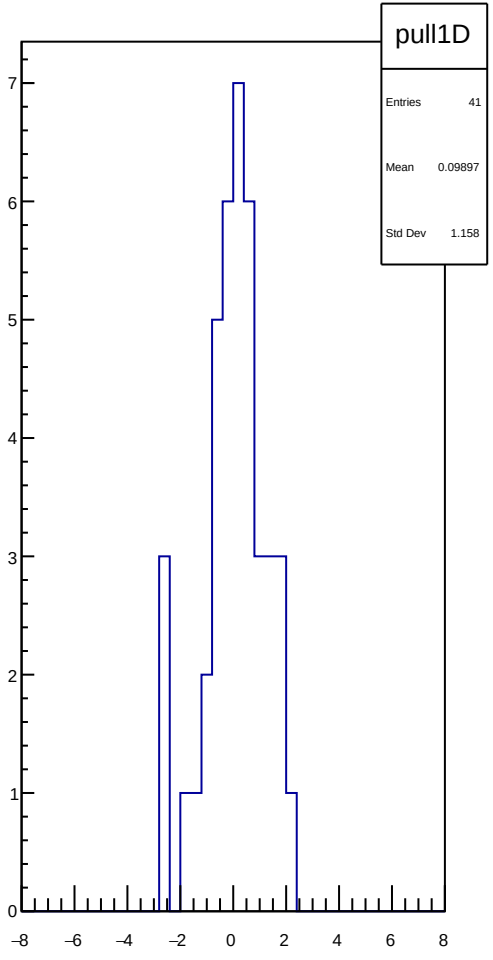

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 271 / 40
p0 2.831 ± 0.1433
pull
Entries 41
Mean 41.18
Std Dev 0
pull1D
Entries 41
Mean 0.1263
Std Dev 1.589

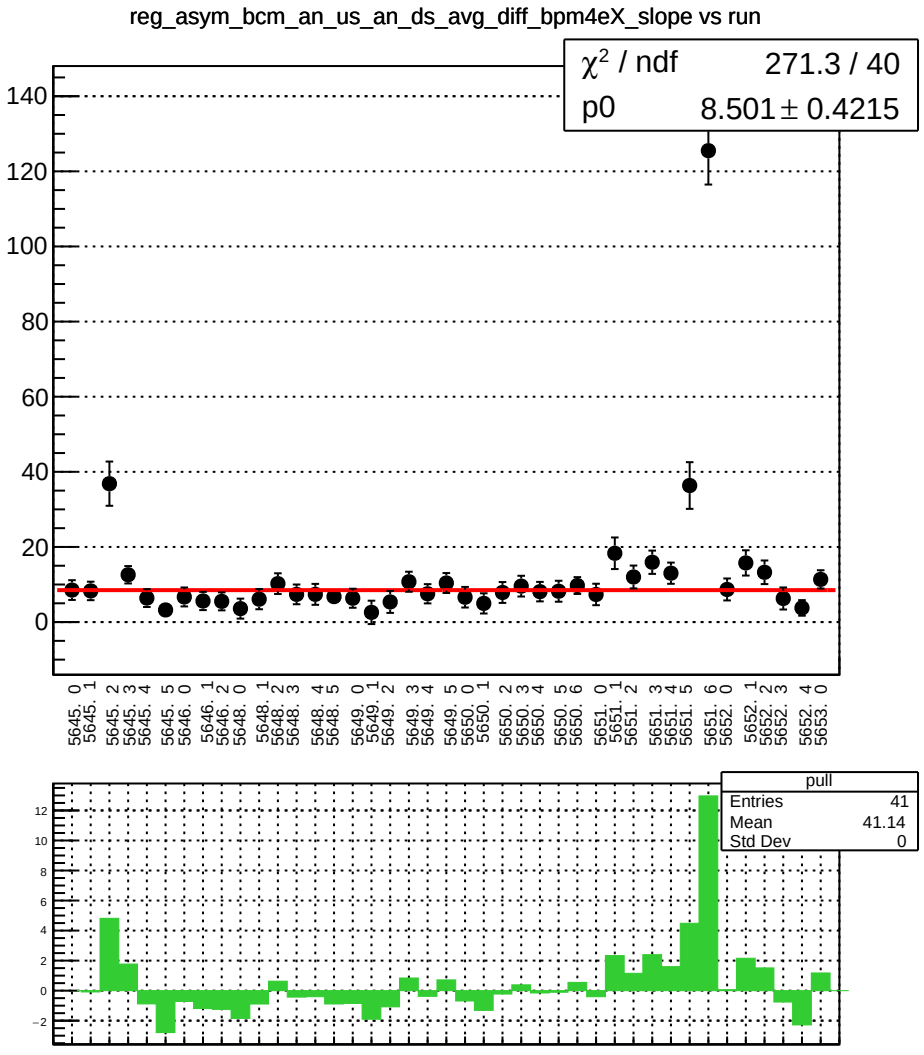

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.09 / 40
p0 −3.359 ± 0.1736
pull
Entries 41
Mean −7.156
Std Dev 0
pull1D
Entries 41
Mean −0.1185
Std Dev 1.225

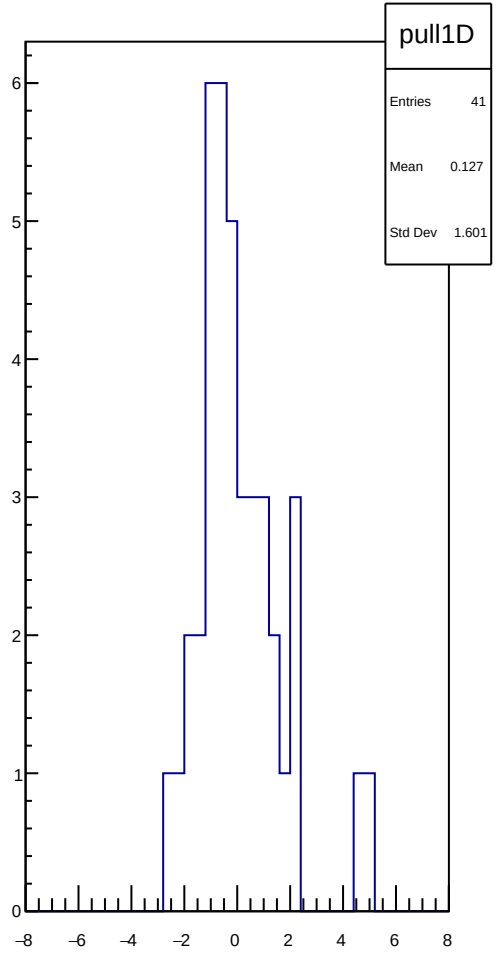

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 57.46 / 40
p0 −0.07155 ± 0.005832
0
−0.1
−0.2
−0.3
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 135.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean −0.09571
Std Dev 1.18
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

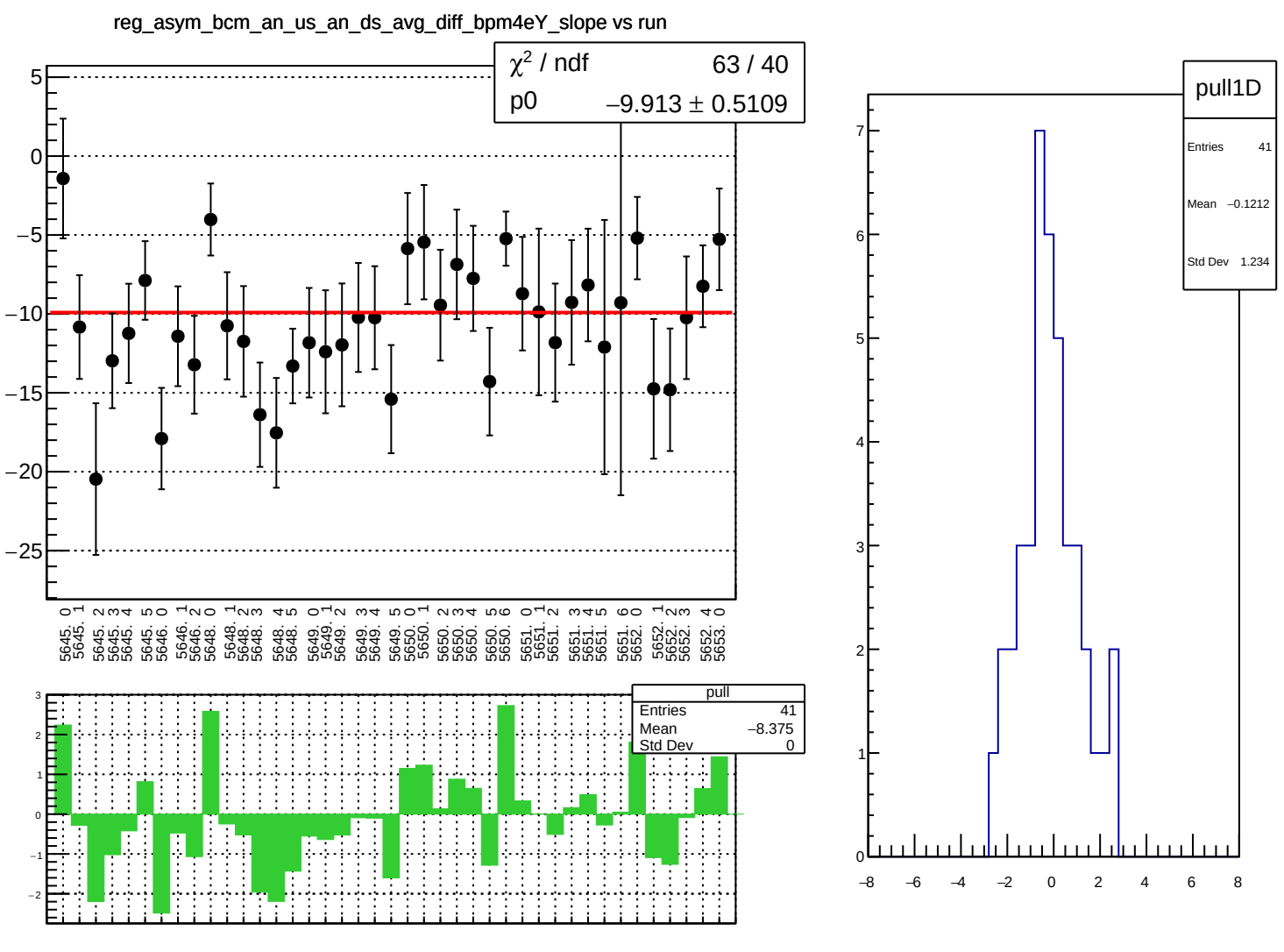

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 270.9 / 40
p0 −10.04 ± 0.4882
pull
Entries 41
Mean 41.2
Std Dev 0
pull1D
Entries 41
Mean −0.1241
Std Dev 1.594

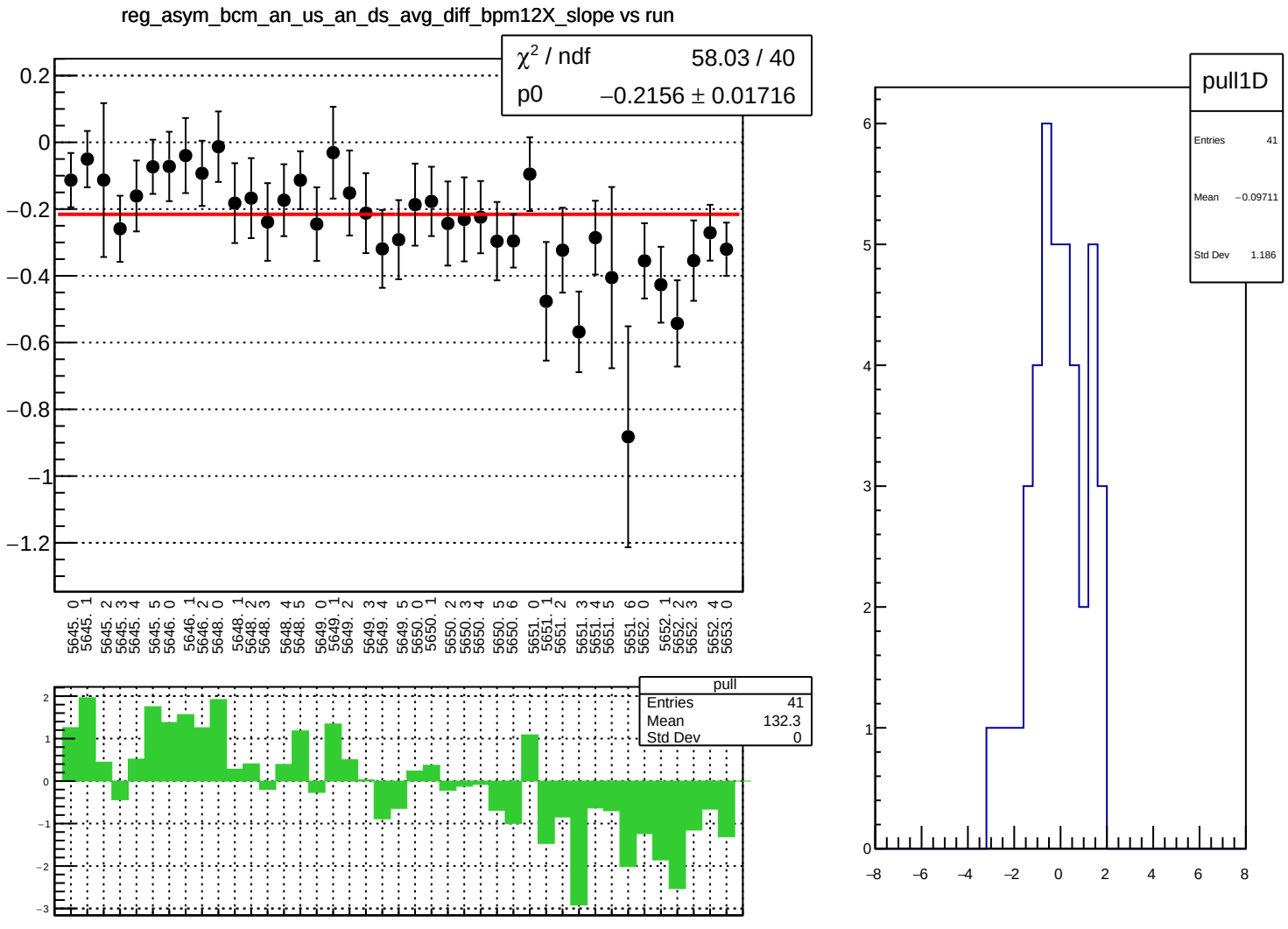

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.41 / 40
p0 5.983 ± 0.4066
pull
Entries 41
Mean 1.464
Std Dev 0

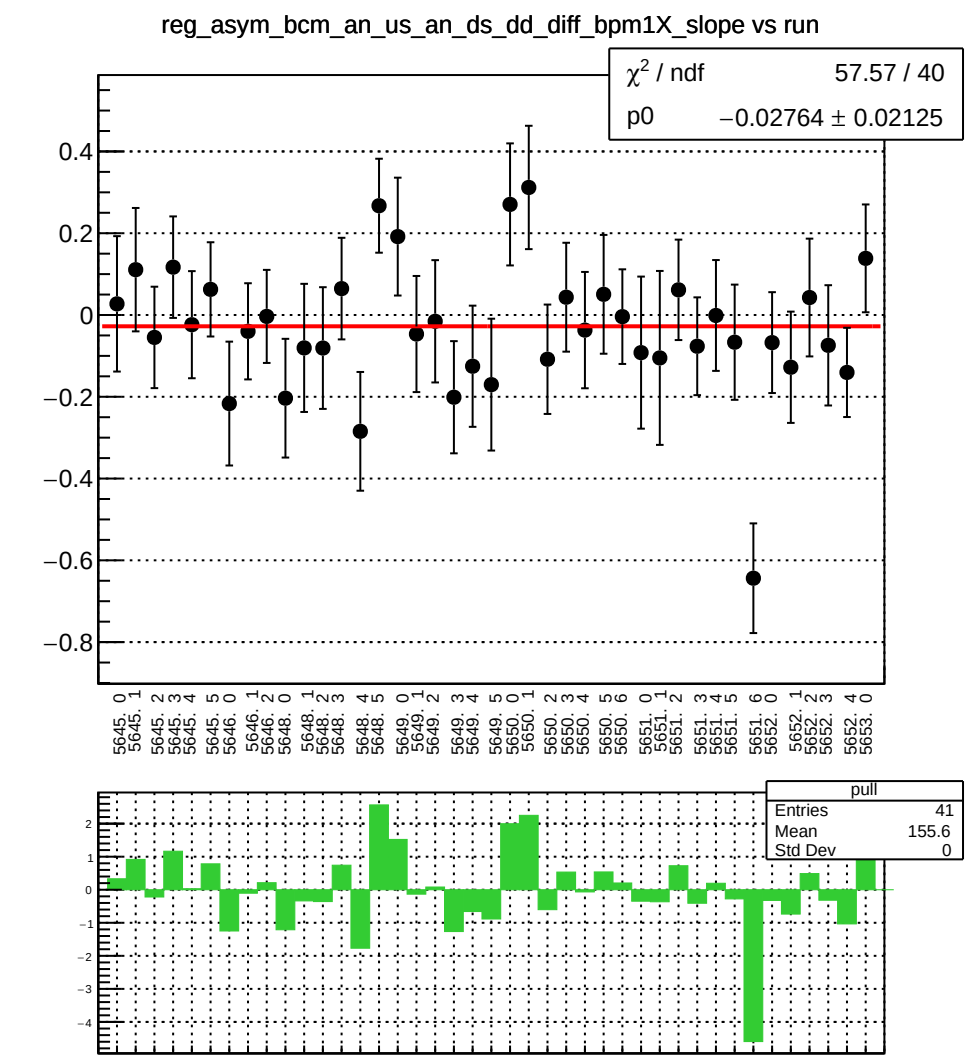

pull1D
Entries 41
Mean 0.09897
Std Dev 1.158

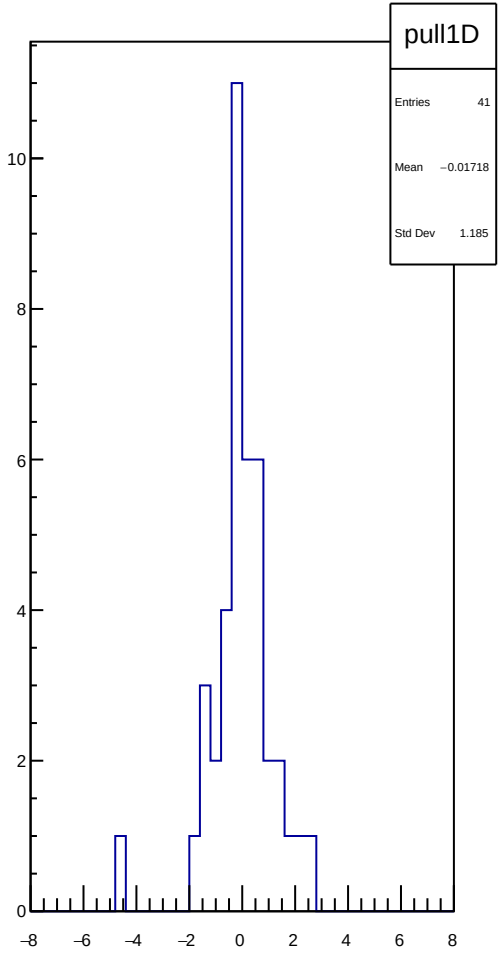

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 271.3 / 40
p0 8.501 ± 0.4215
pull
Entries 41
Mean 41.14
Std Dev 0

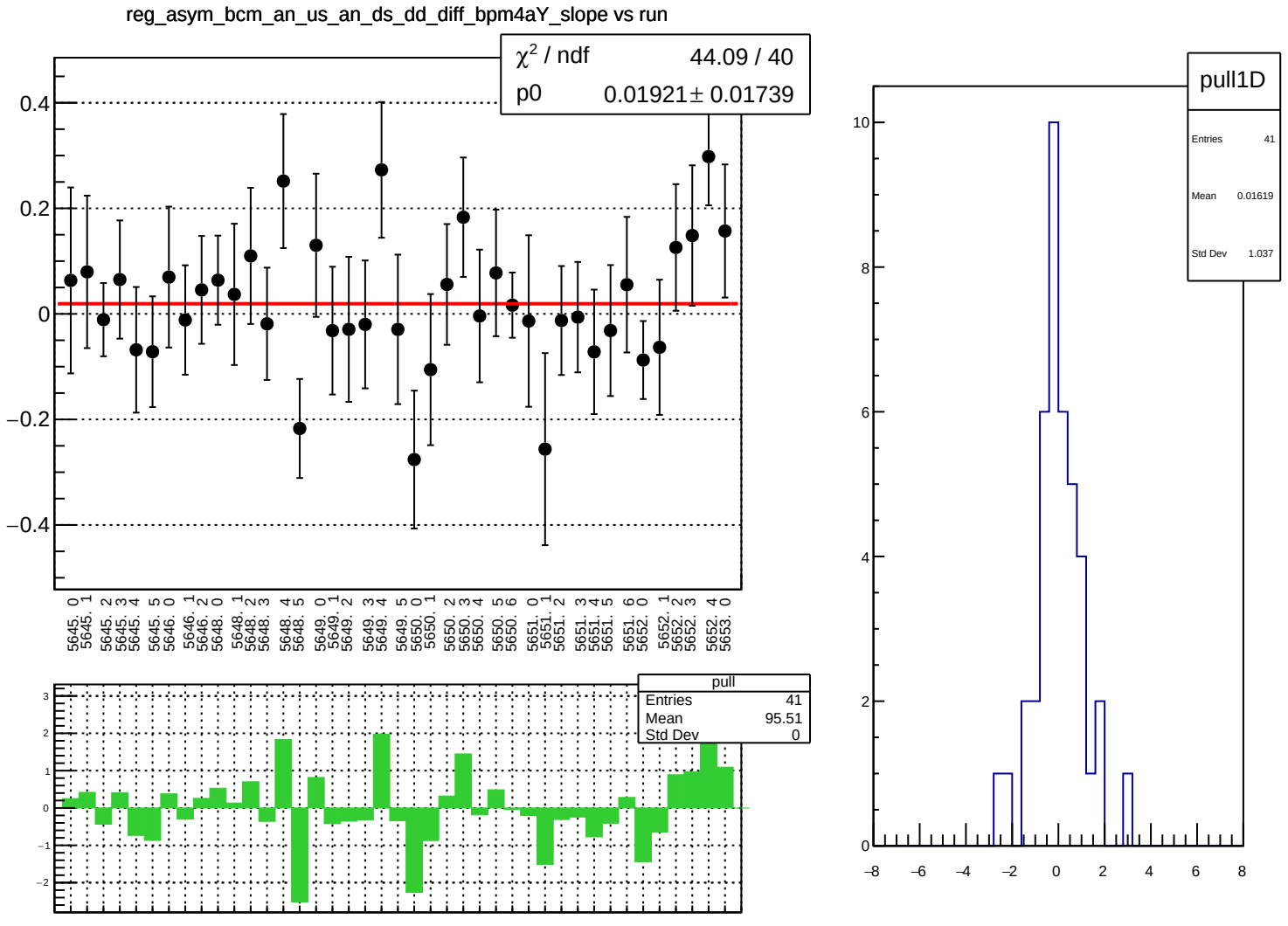

pull1D
Entries 41
Mean 0.127
Std Dev 1.601

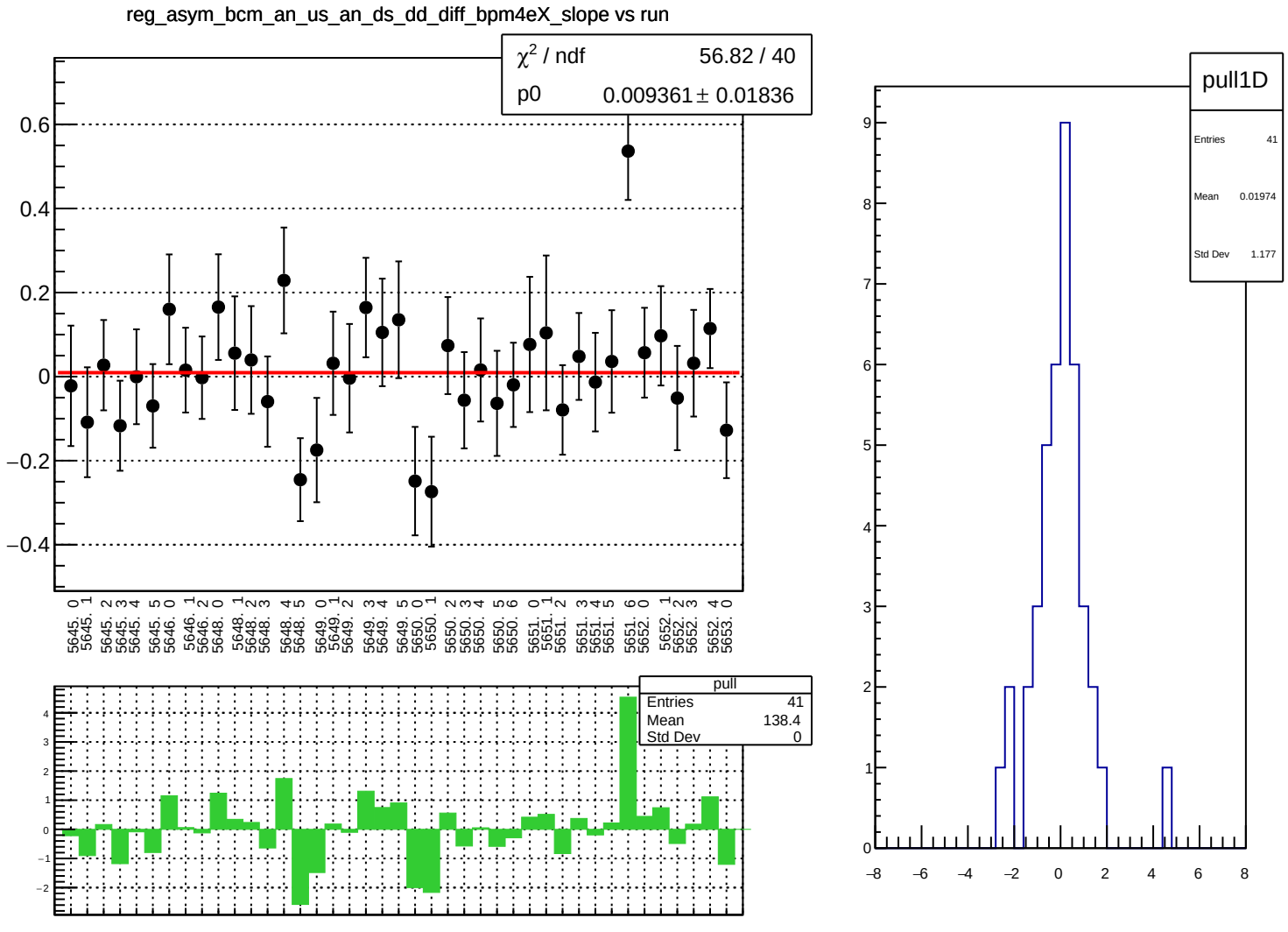

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 63 / 40
p0 −9.913 ± 0.5109
pull
Entries 41
Mean −8.375
Std Dev 0
pull1D
Entries 41
Mean −0.1212
Std Dev 1.234

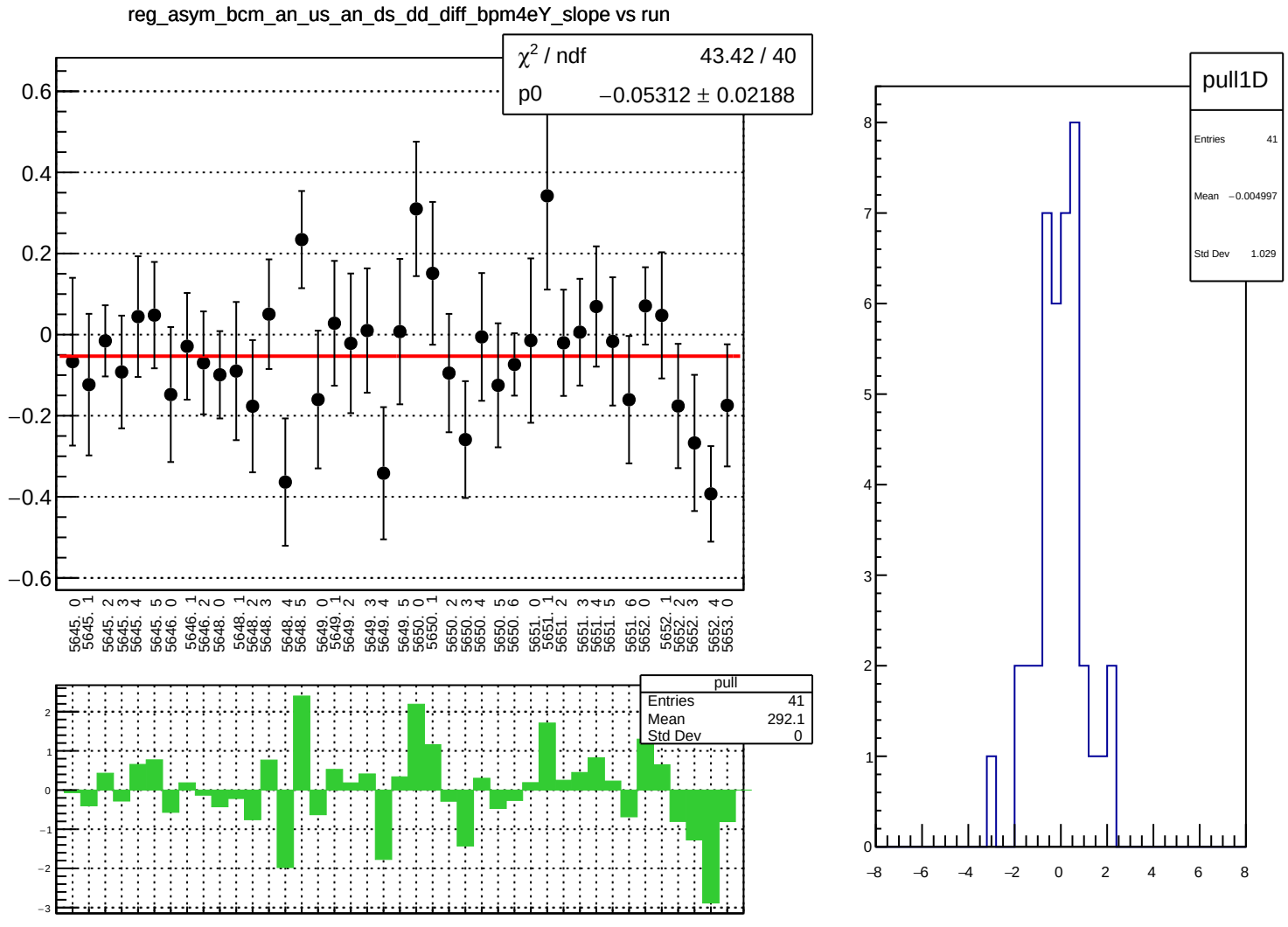

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 58.03 / 40
p0 −0.2156 ± 0.01716
pull
Entries 41
Mean 132.3
Std Dev 0
pull1D
Entries 41
Mean −0.09711
Std Dev 1.186

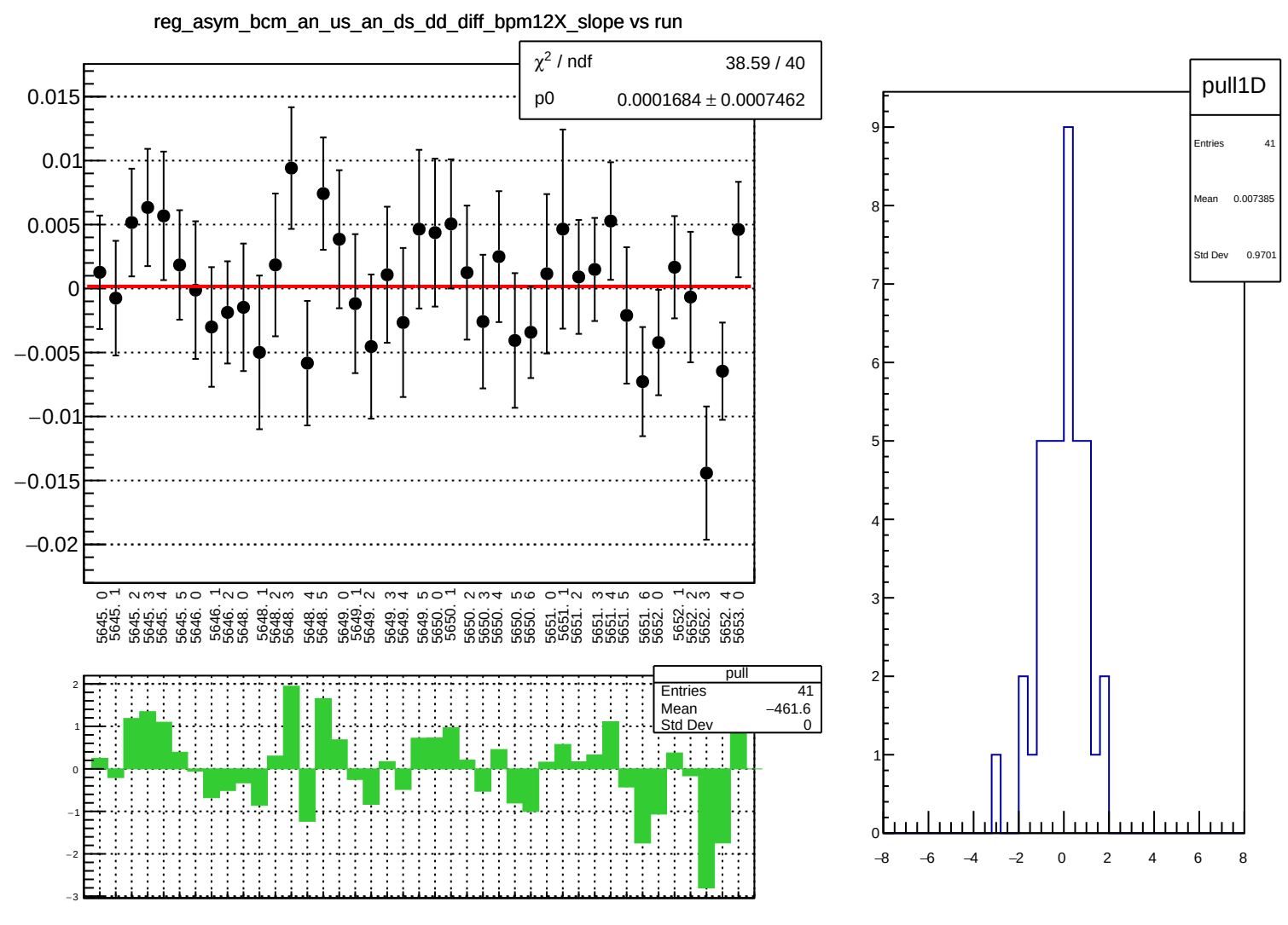

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 57.57 / 40
p0 −0.02764 ± 0.02125
pull
Entries 41
Mean 155.6
Std Dev 0

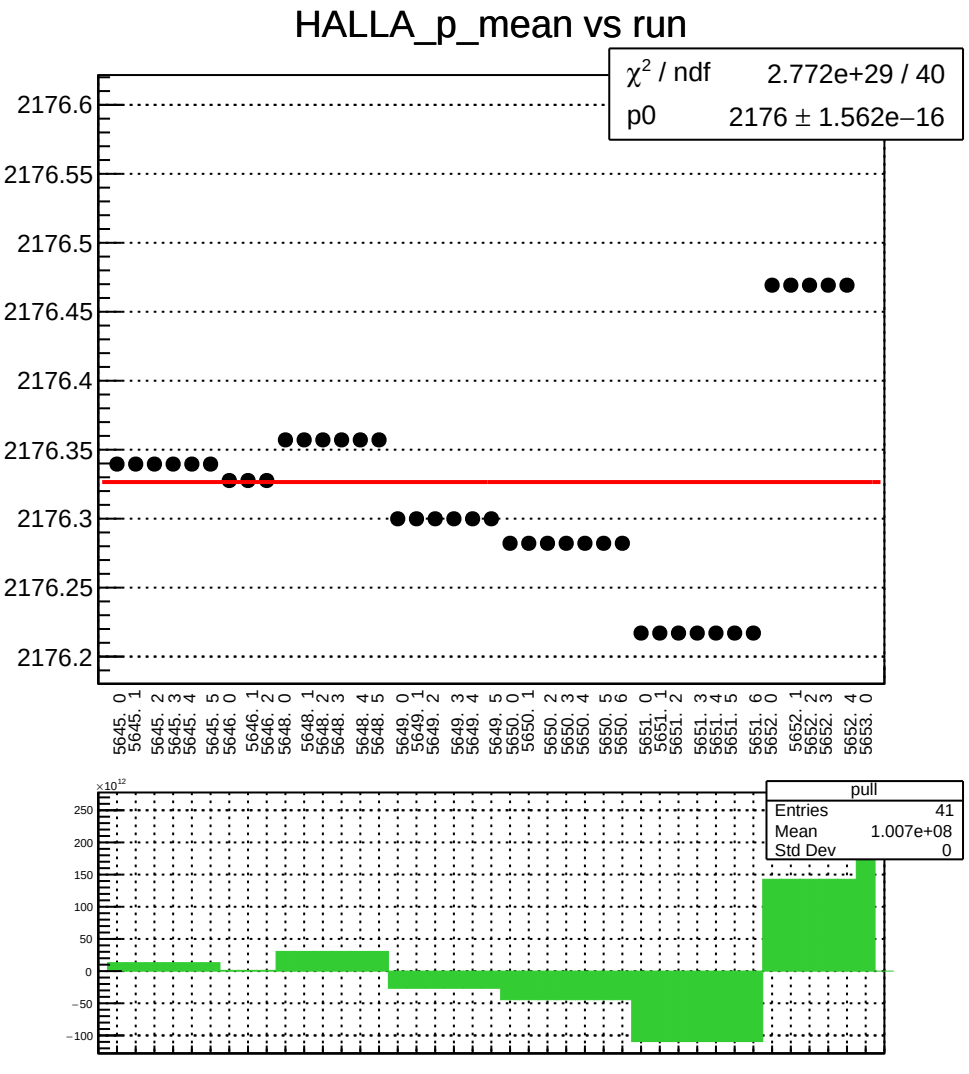

pull1D
Entries 41
Mean −0.01718
Std Dev 1.185

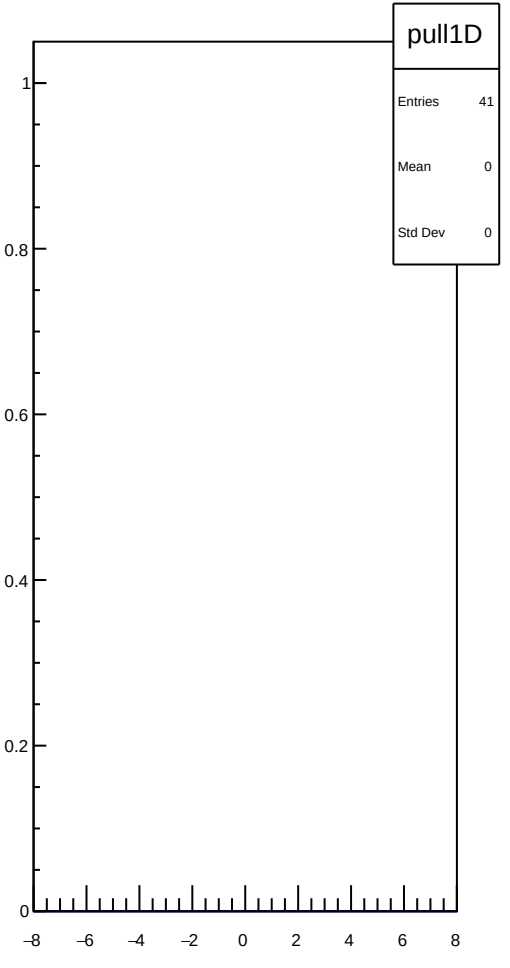

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.09 / 40
p0 0.01921 ± 0.01739
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 95.51
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01619
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

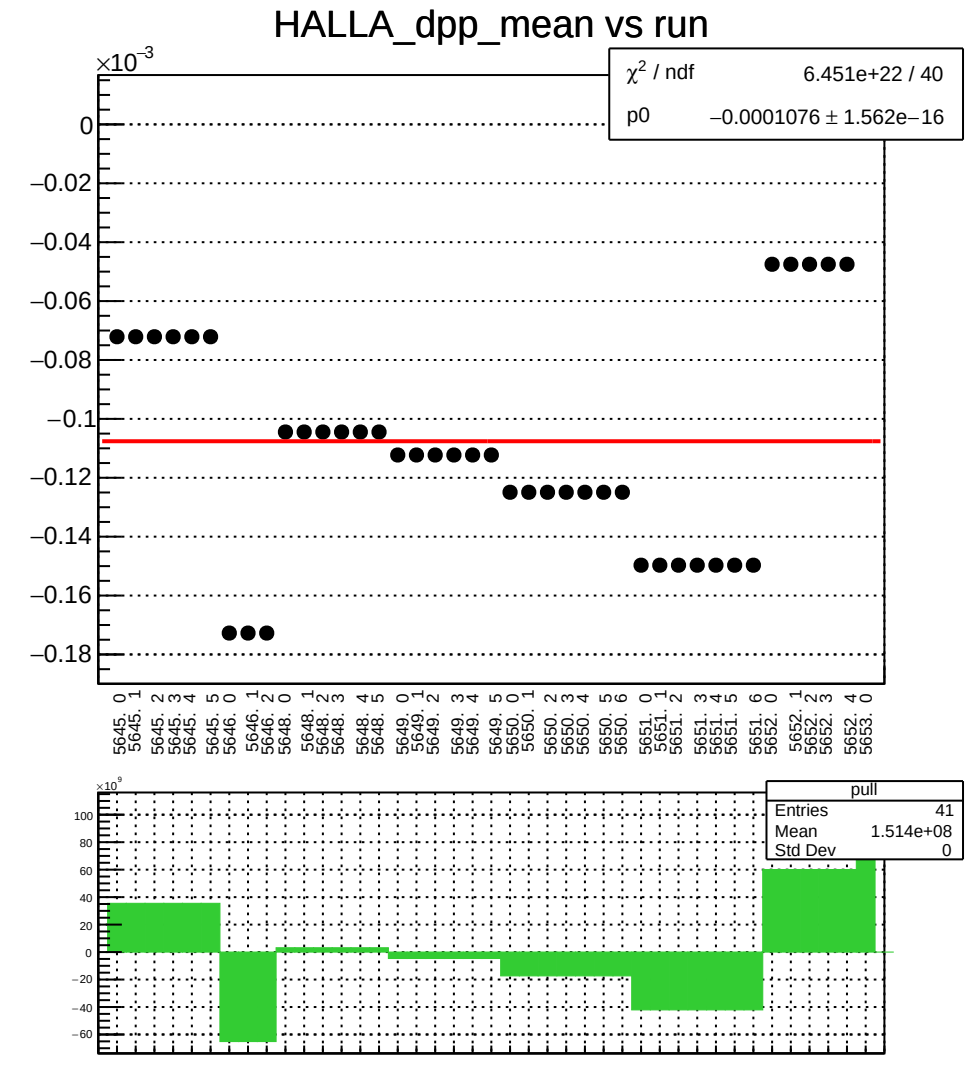

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.82 / 40
p0 0.009361 ± 0.01836
0.6
0.4
0.2
0
−0.2
−0.4
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5646. 3
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 138.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 41
Mean 0.01974
Std Dev 1.177
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

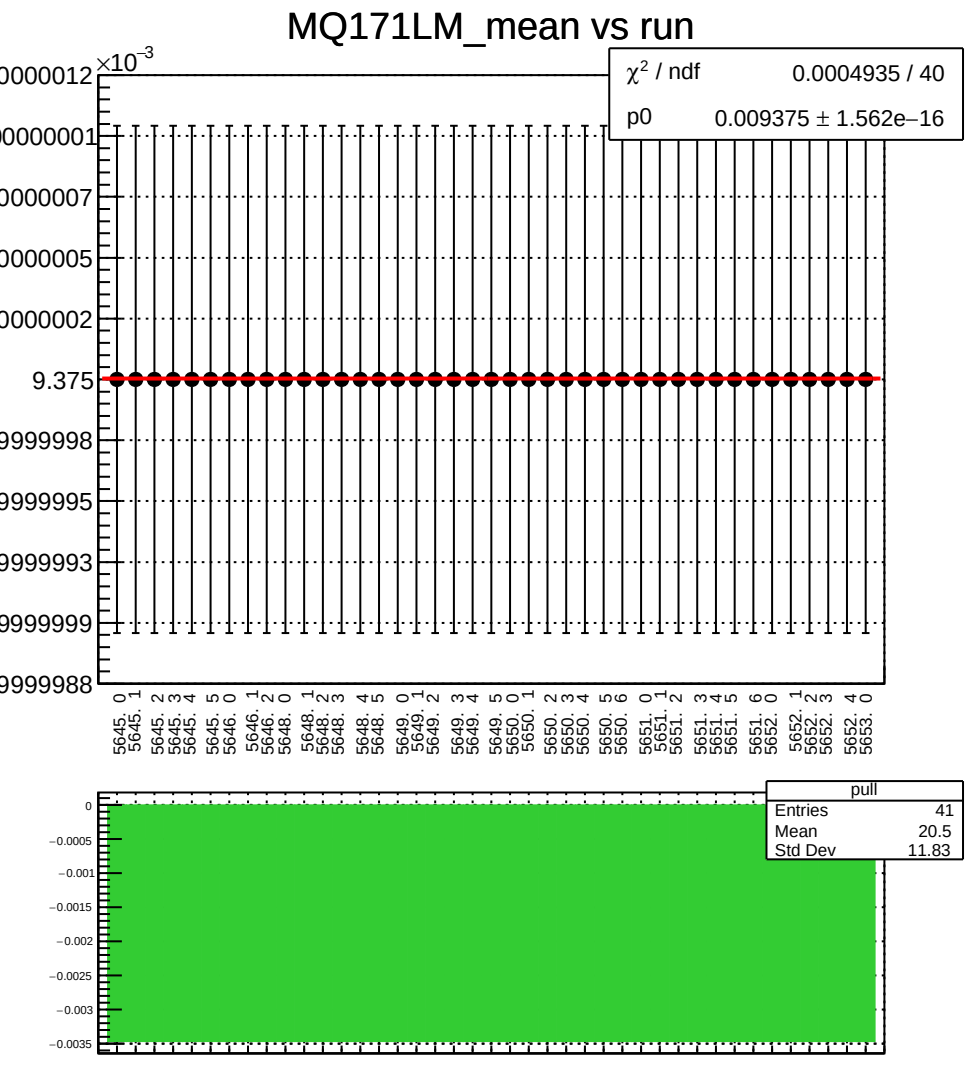

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.42 / 40
p0 −0.05312 ± 0.02188
pull
Entries 41
Mean 292.1
Std Dev 0
pull1D
Entries 41
Mean −0.004997
Std Dev 1.029

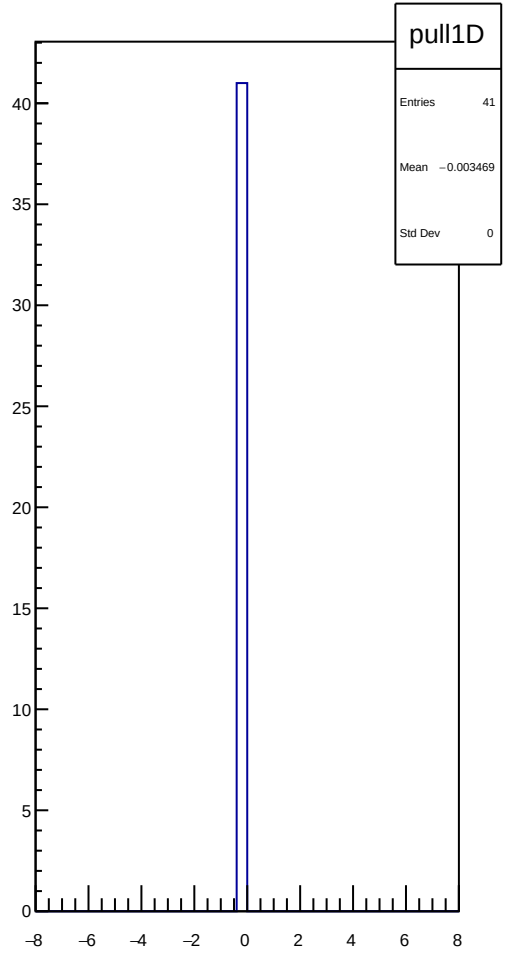

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 38.59 / 40
p0 0.0001684 ± 0.0007462
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean −461.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 41
Mean 0.007385
Std Dev 0.9701
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

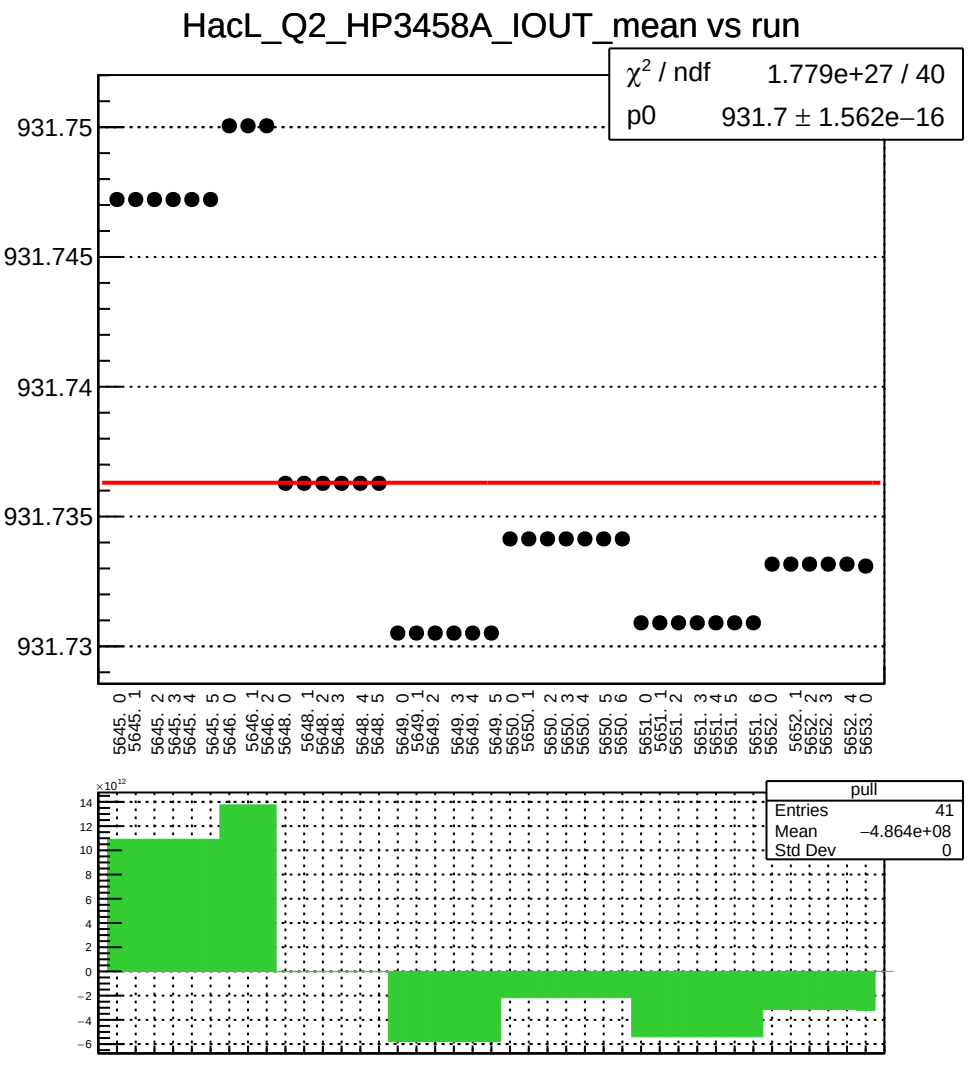

HALLA_p_mean vs run
χ² / ndf 2.772e+29 / 40
p0 2176 ± 1.562e−16
2176.6
2176.55
2176.5
2176.45
2176.4
2176.35
2176.3
2176.25
2176.2
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
×10¹²
250
200
150
100
50
0
−50
−100
pull
Entries 41
Mean 1.007e+08
Std Dev 0

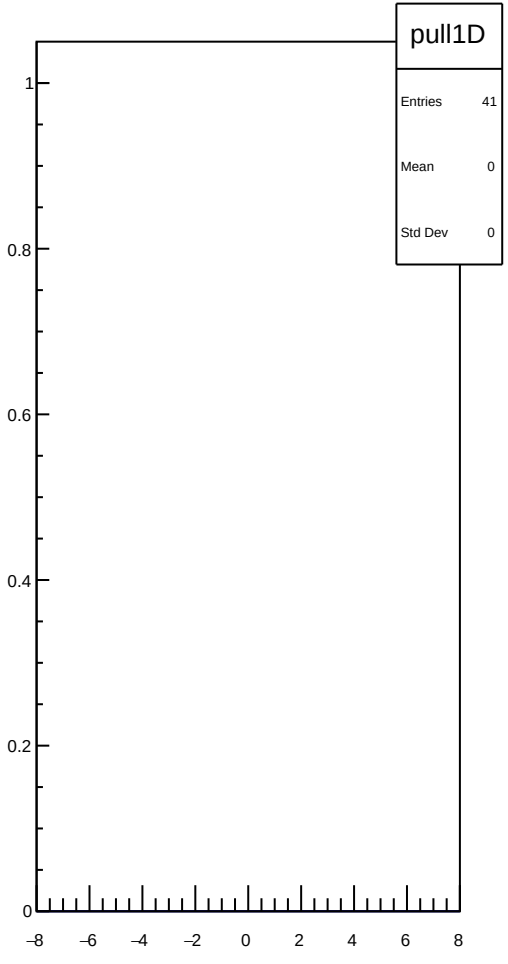

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

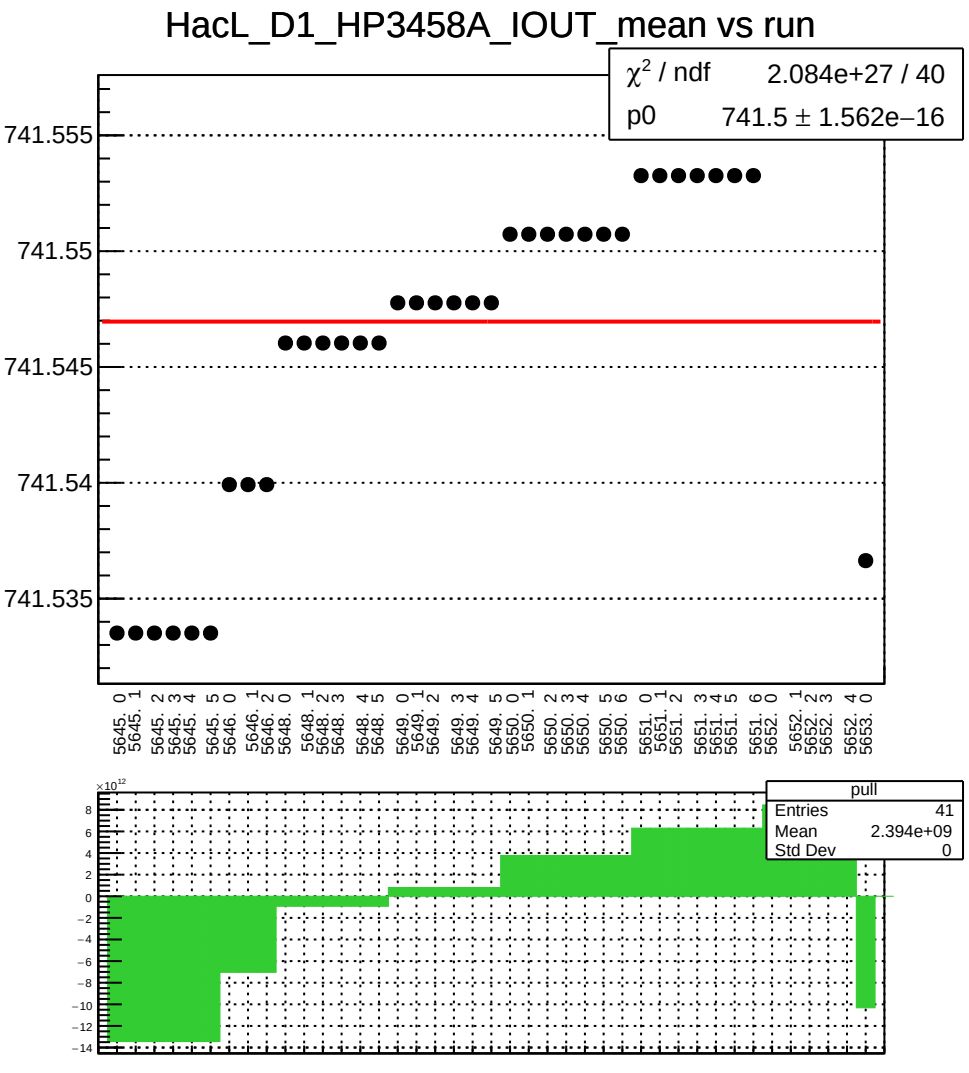

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 6.451e+22 / 40
p0 −0.0001076 ± 1.562e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
×10⁹
pull
Entries 41
Mean 1.514e+08
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

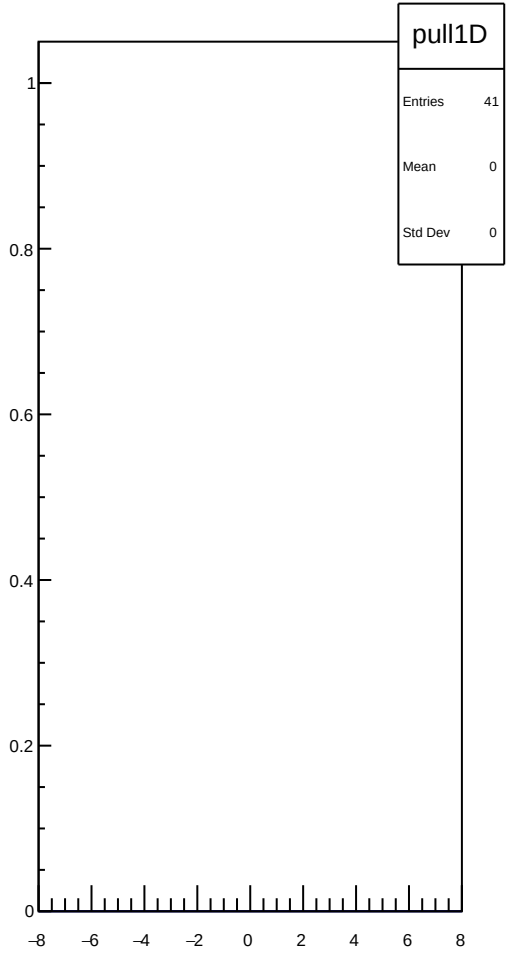

MQ171LM_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
9.375
pull
Entries 41
Mean 20.5
Std Dev 11.83

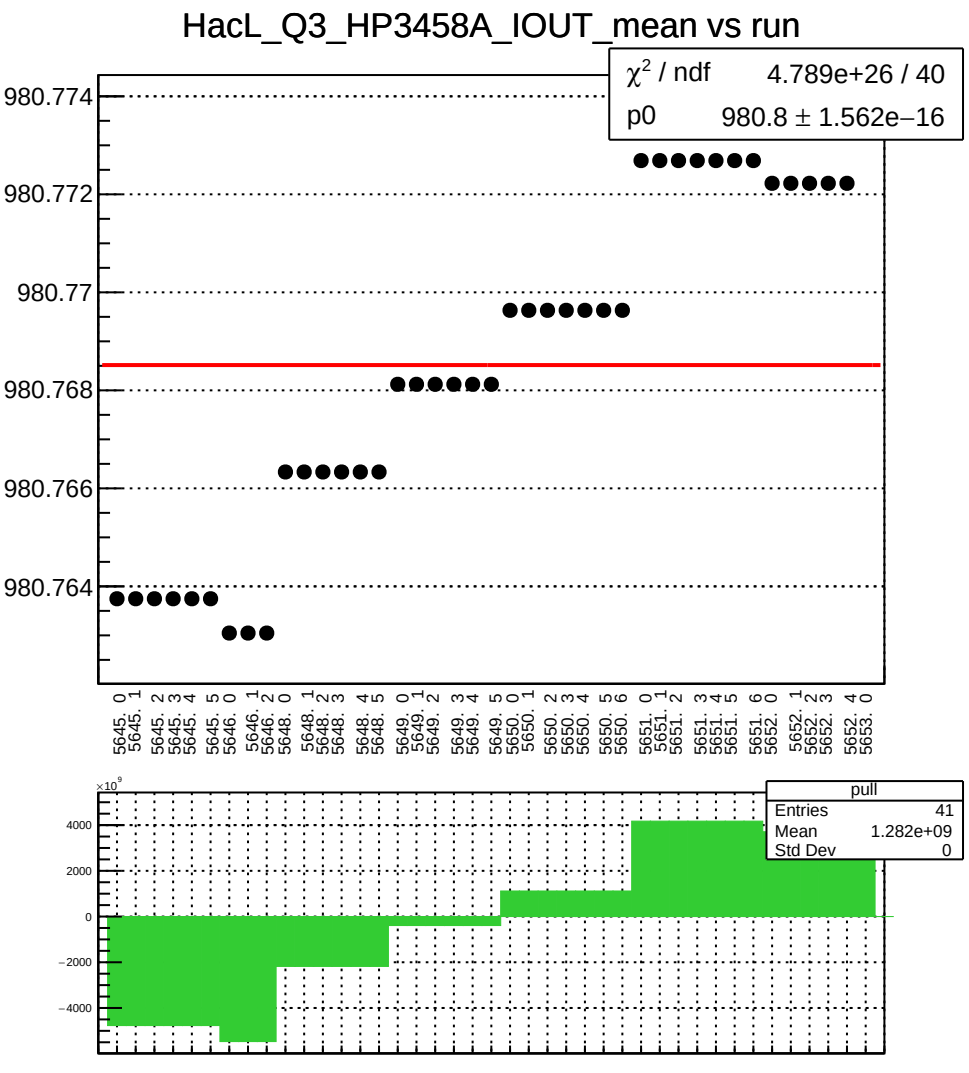

pull1D
Entries 41
Mean −0.003469
Std Dev 0

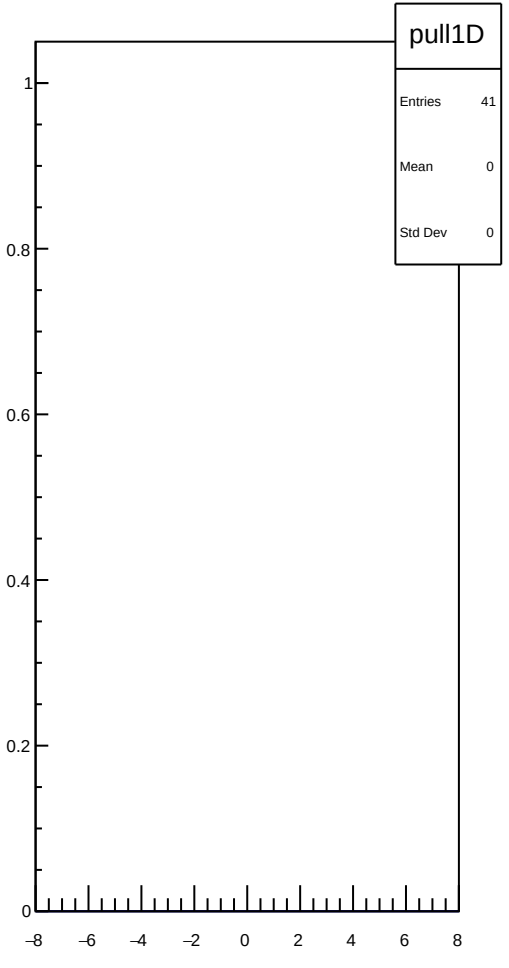

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.779e+27 / 40
p0 931.7 ± 1.562e−16
931.75
931.745
931.74
931.735
931.73
pull
Entries 41
Mean −4.864e+08
Std Dev 0
×10¹²

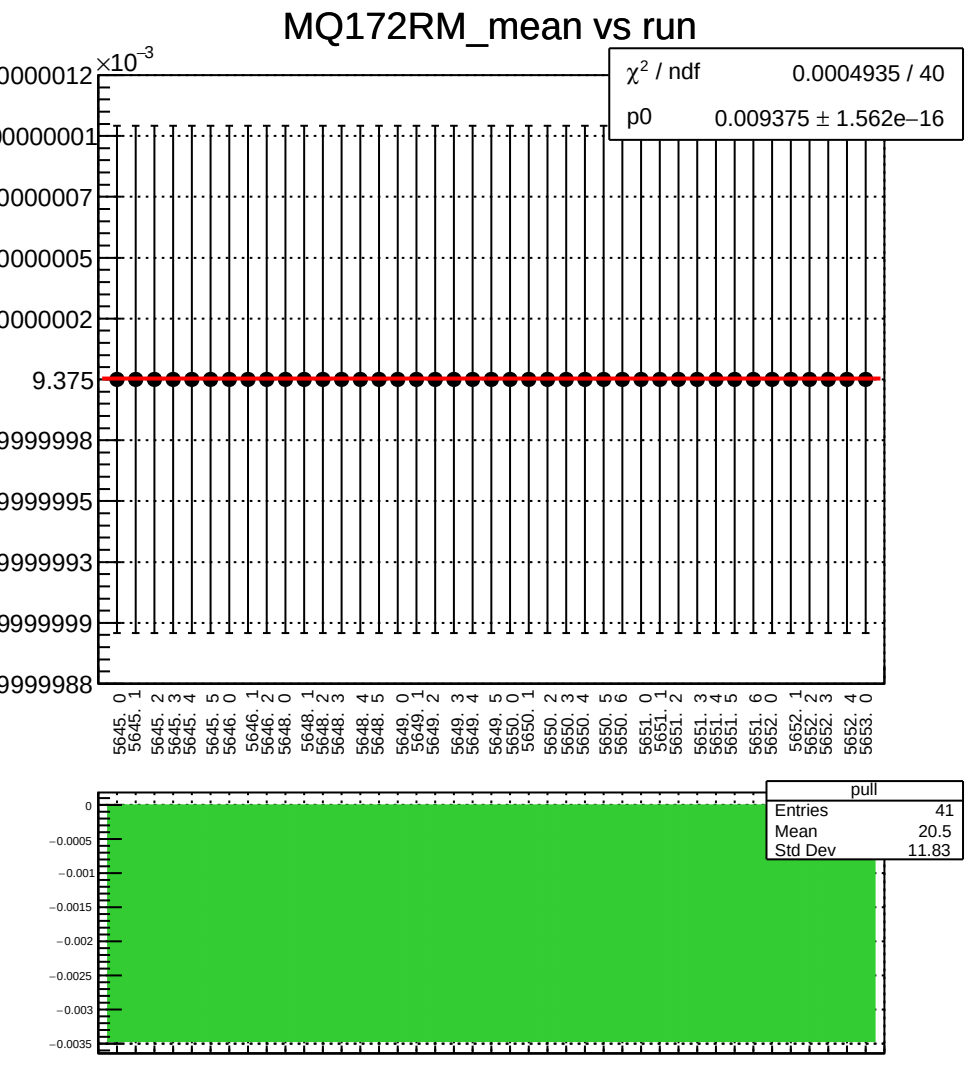

pull1D
Entries 41
Mean 0
Std Dev 0

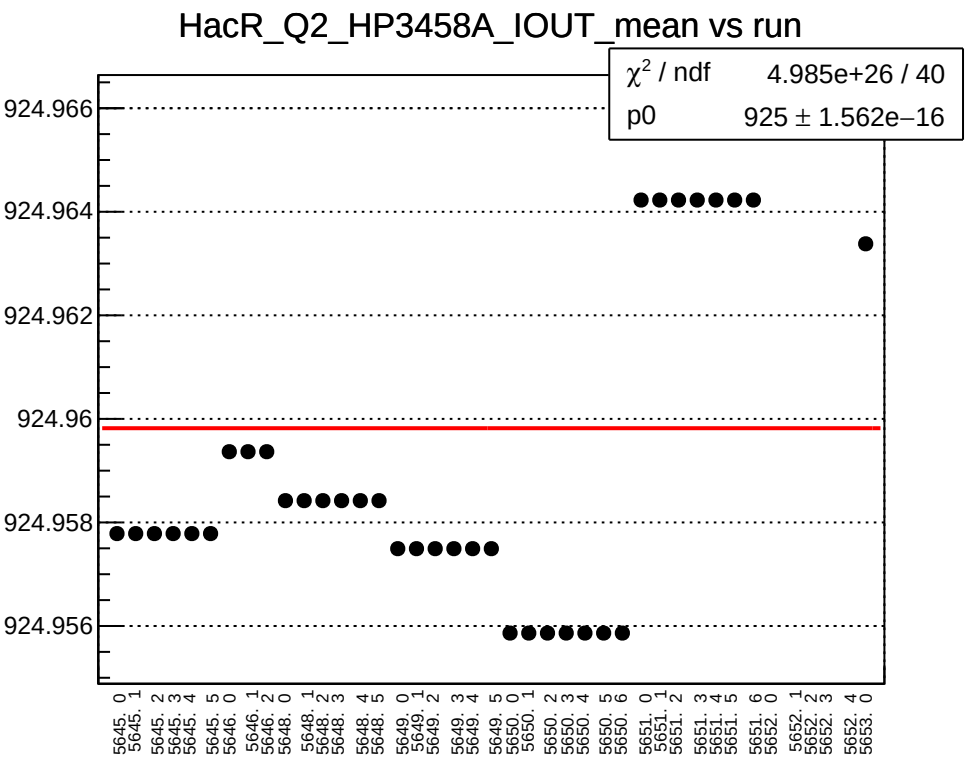

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.084e+27 / 40
p0 741.5 ± 1.562e−16
741.555
741.55
741.545
741.54
741.535
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
×10¹²
8
6
4
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 41
Mean 2.394e+09
Std Dev 0

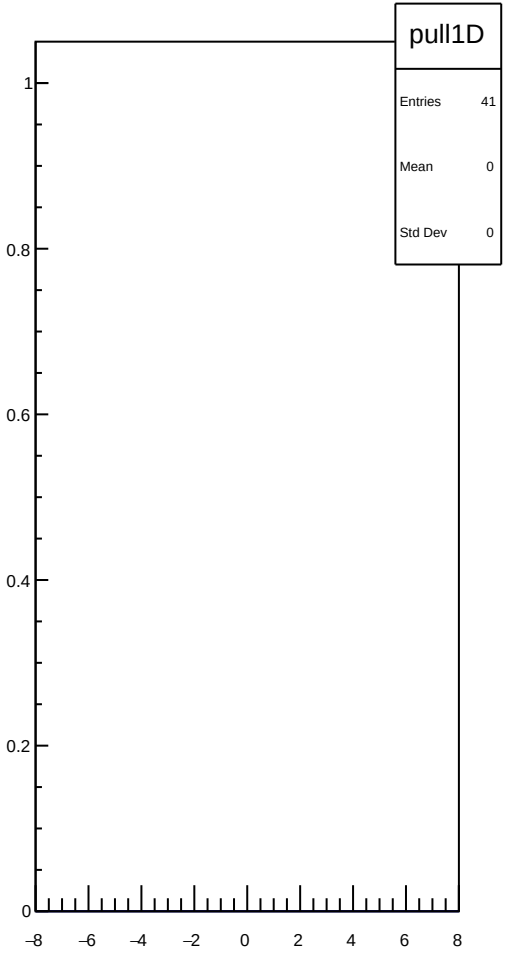

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

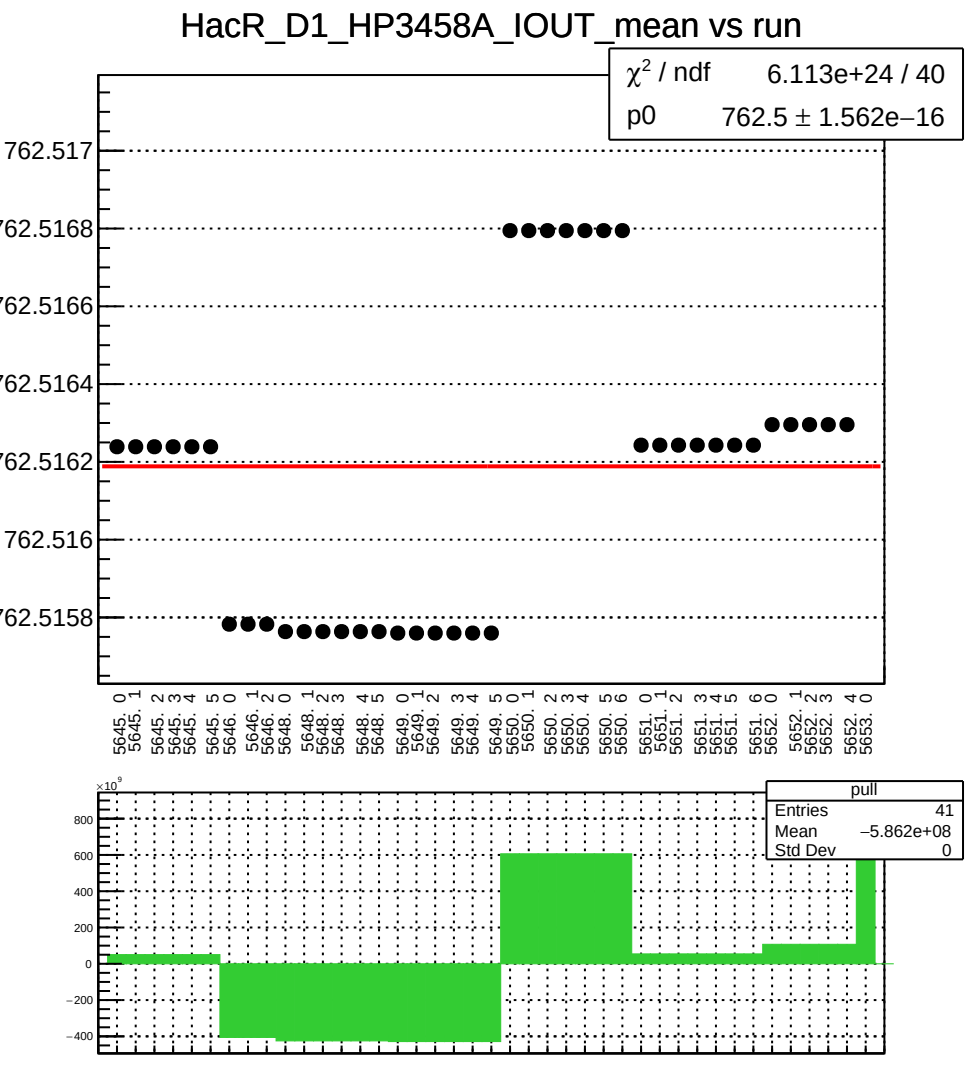

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.789e+26 / 40
p0 980.8 ± 1.562e−16
980.774
980.772
980.77
980.768
980.766
980.764
pull
Entries 41
Mean 1.282e+09
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000

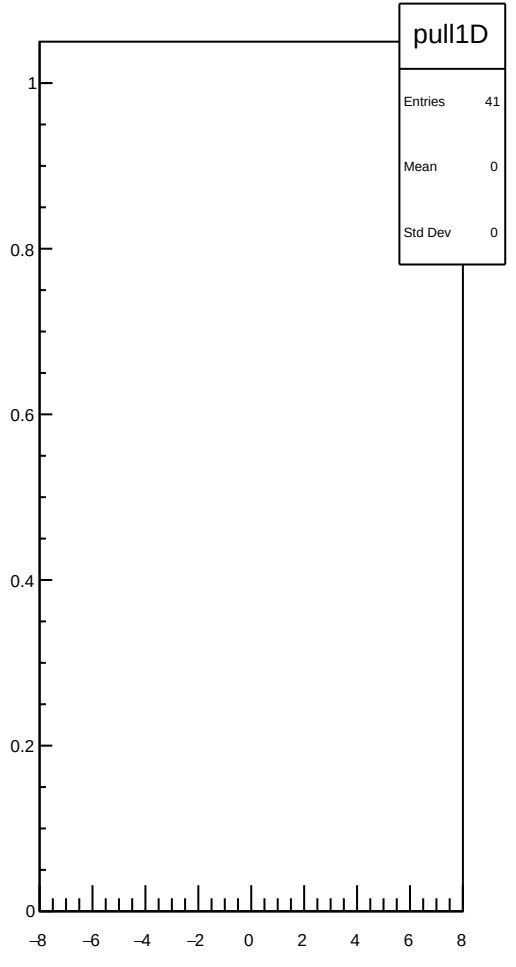

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

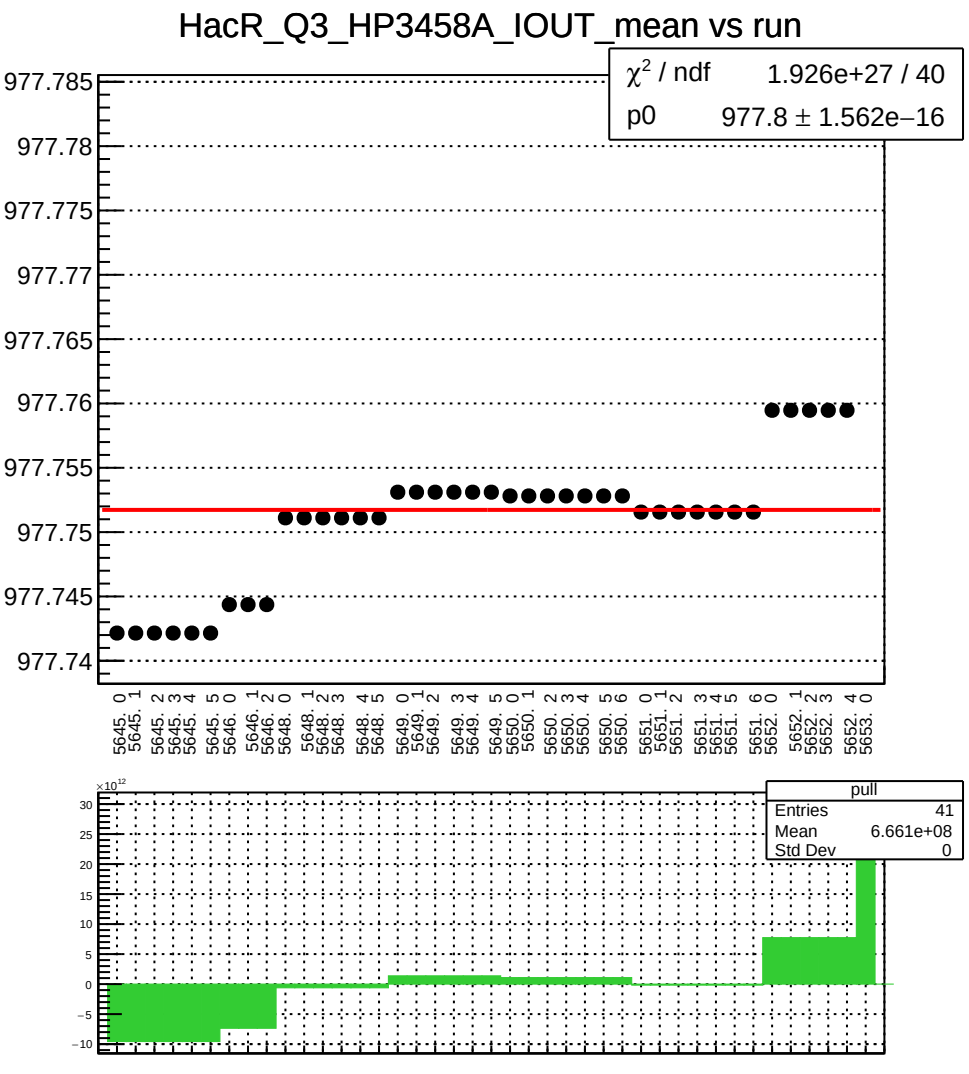

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035
pull1D
Entries 41
Mean −0.003469
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

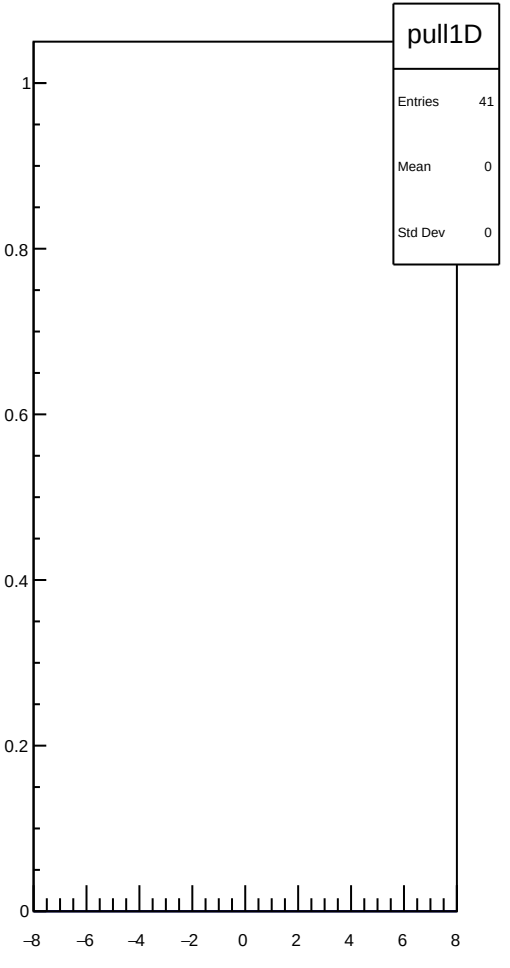

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.985e+26 / 40
p0 925 ± 1.562e−16
924.966
924.964
924.962
924.96
924.958
924.956
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
×10⁹
6000
4000
2000
0
−2000
−4000
pull
Entries 41
Mean −2.662e+09
Std Dev 0

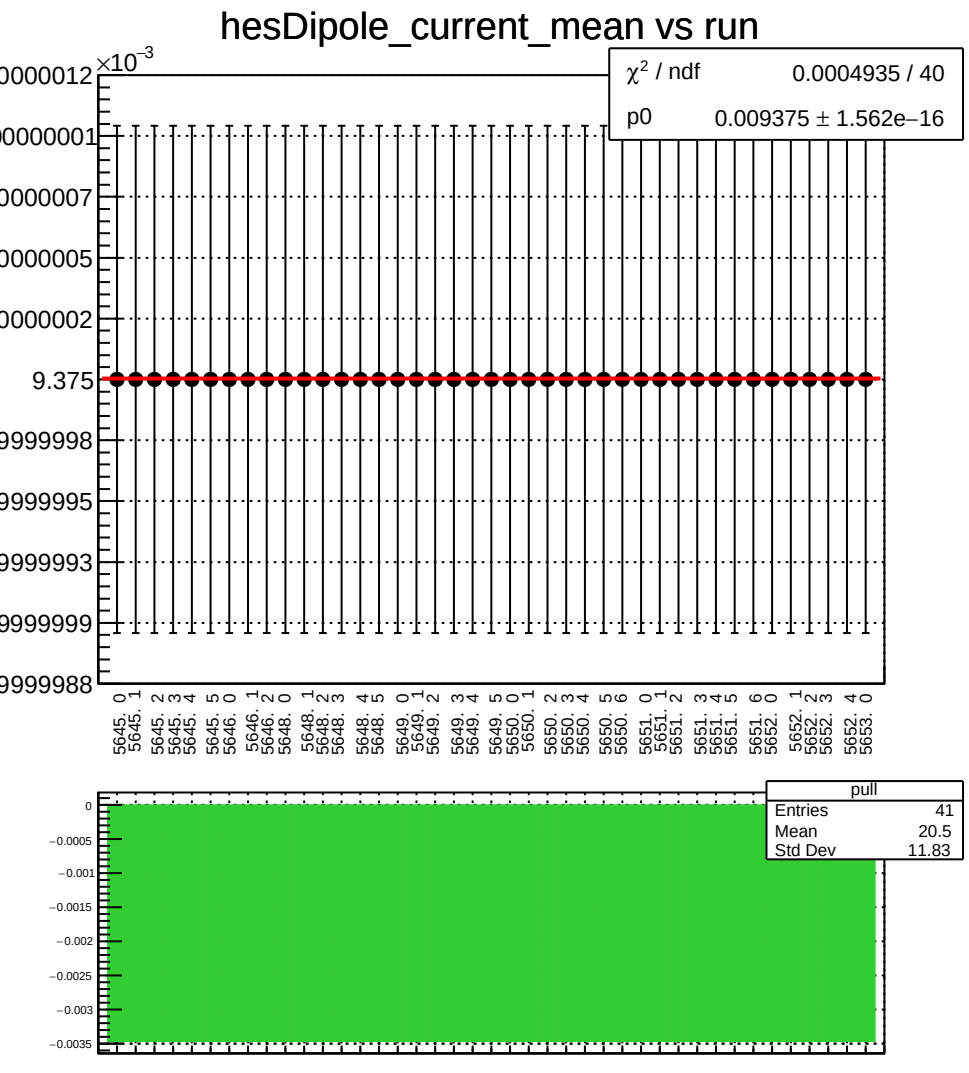

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

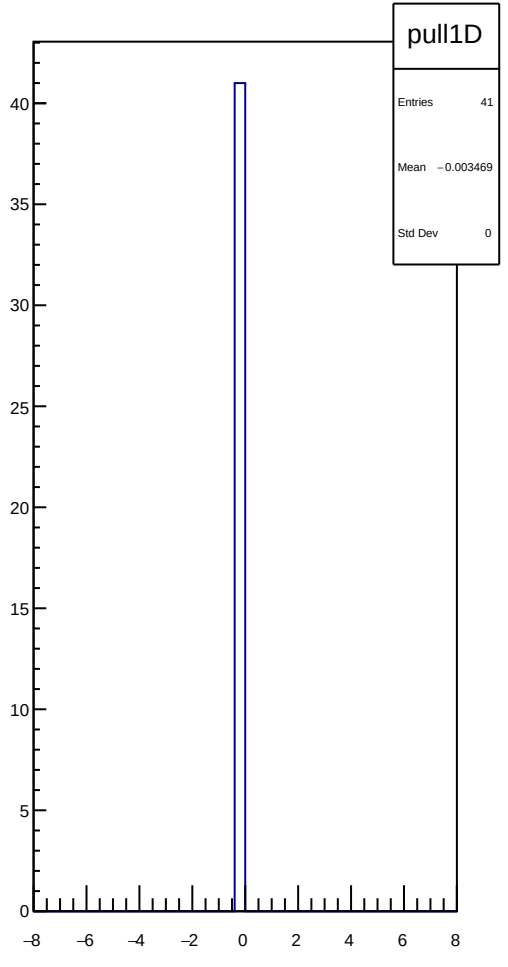

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.113e+24 / 40
p0 762.5 ± 1.562e−16
762.517
762.5168
762.5166
762.5164
762.5162
762.516
762.5158
pull
Entries 41
Mean −5.862e+08
Std Dev 0
×10⁹
800
600
400
200
0
−200
−400

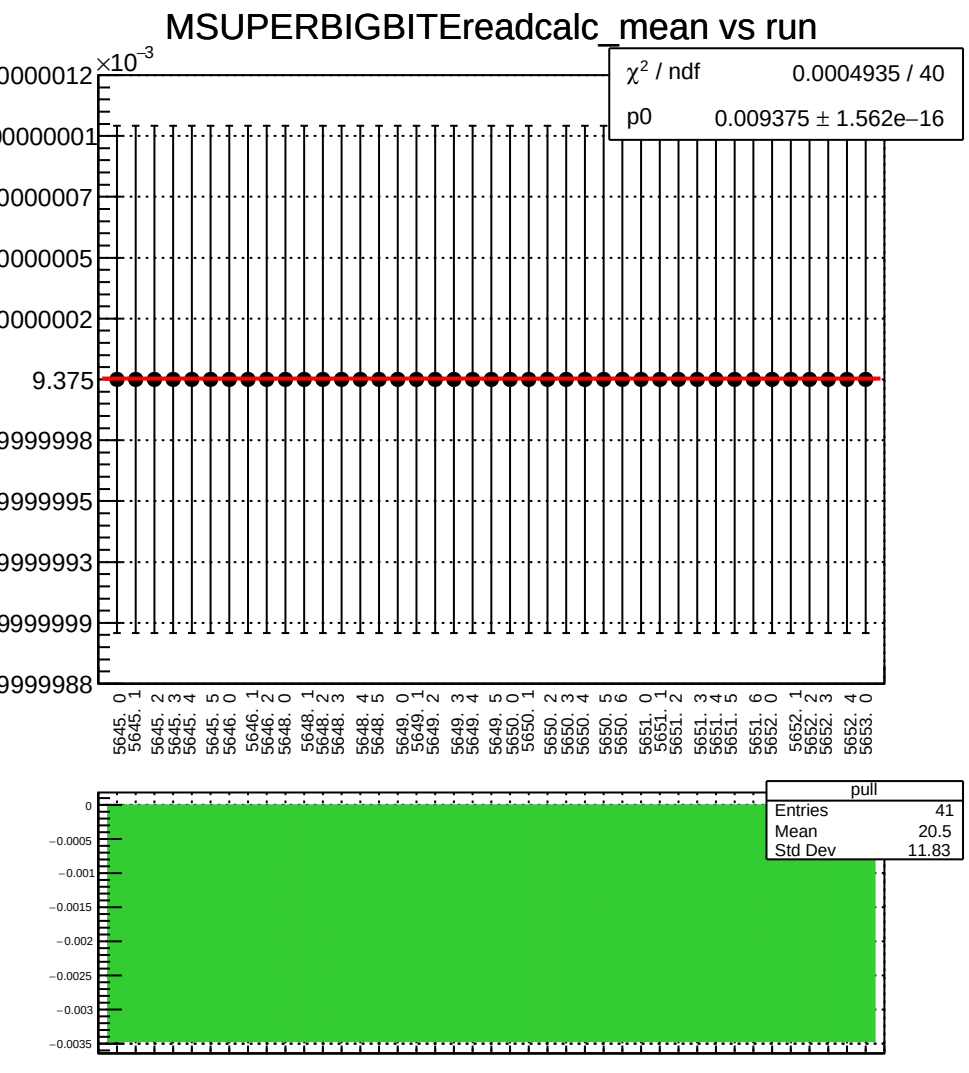

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

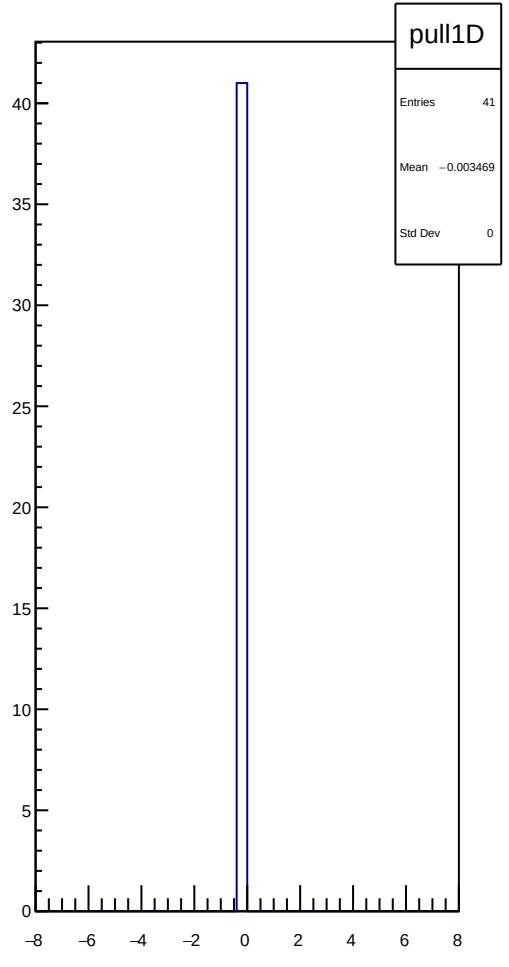

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.926e+27 / 40
p0 977.8 ± 1.562e−16
977.785
977.78
977.775
977.77
977.765
977.76
977.755
977.75
977.745
977.74
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
×10¹²
30
25
20
15
10
5
0
−5
−10
pull
Entries 41
Mean 6.661e+08
Std Dev 0

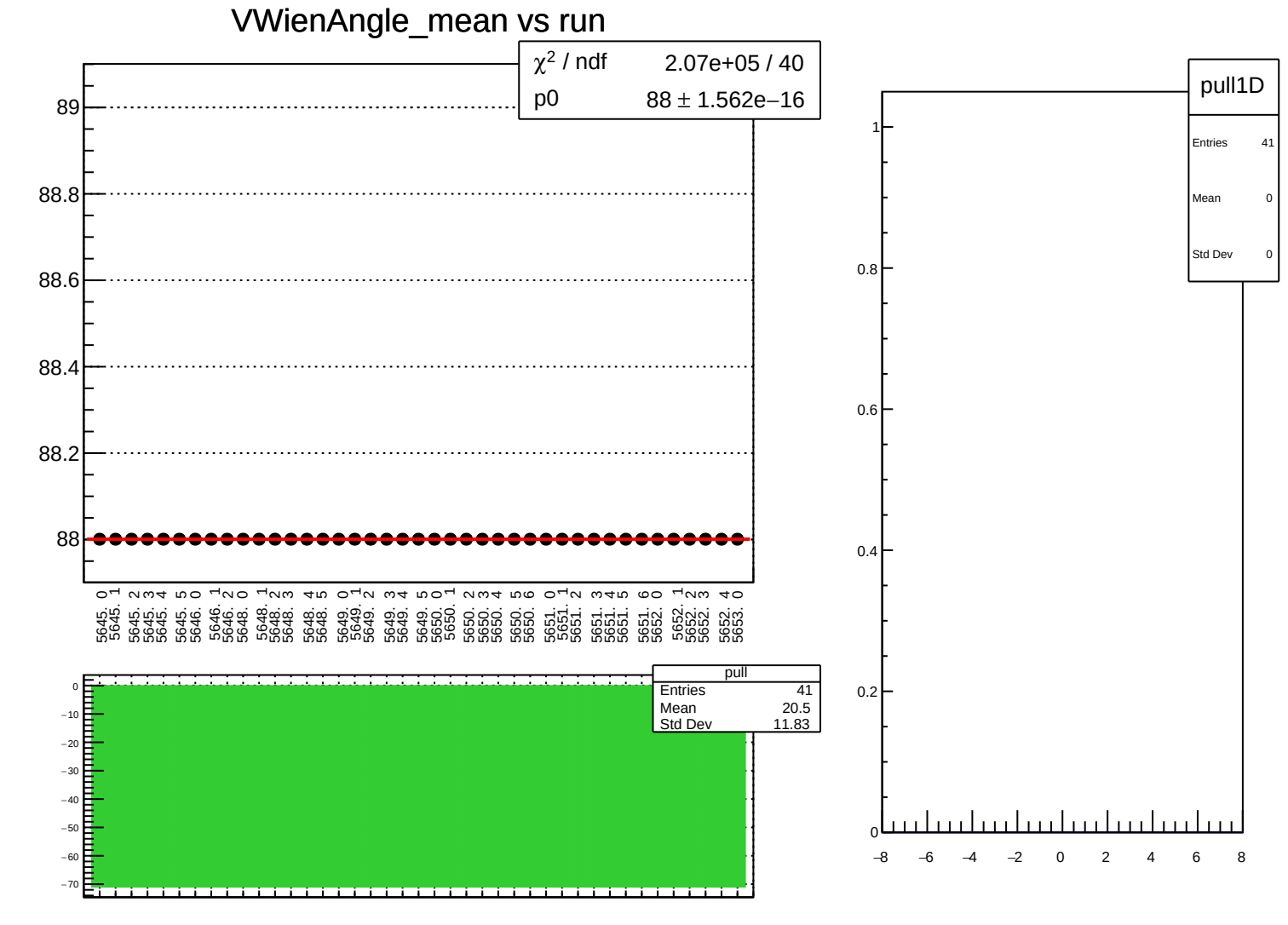

pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

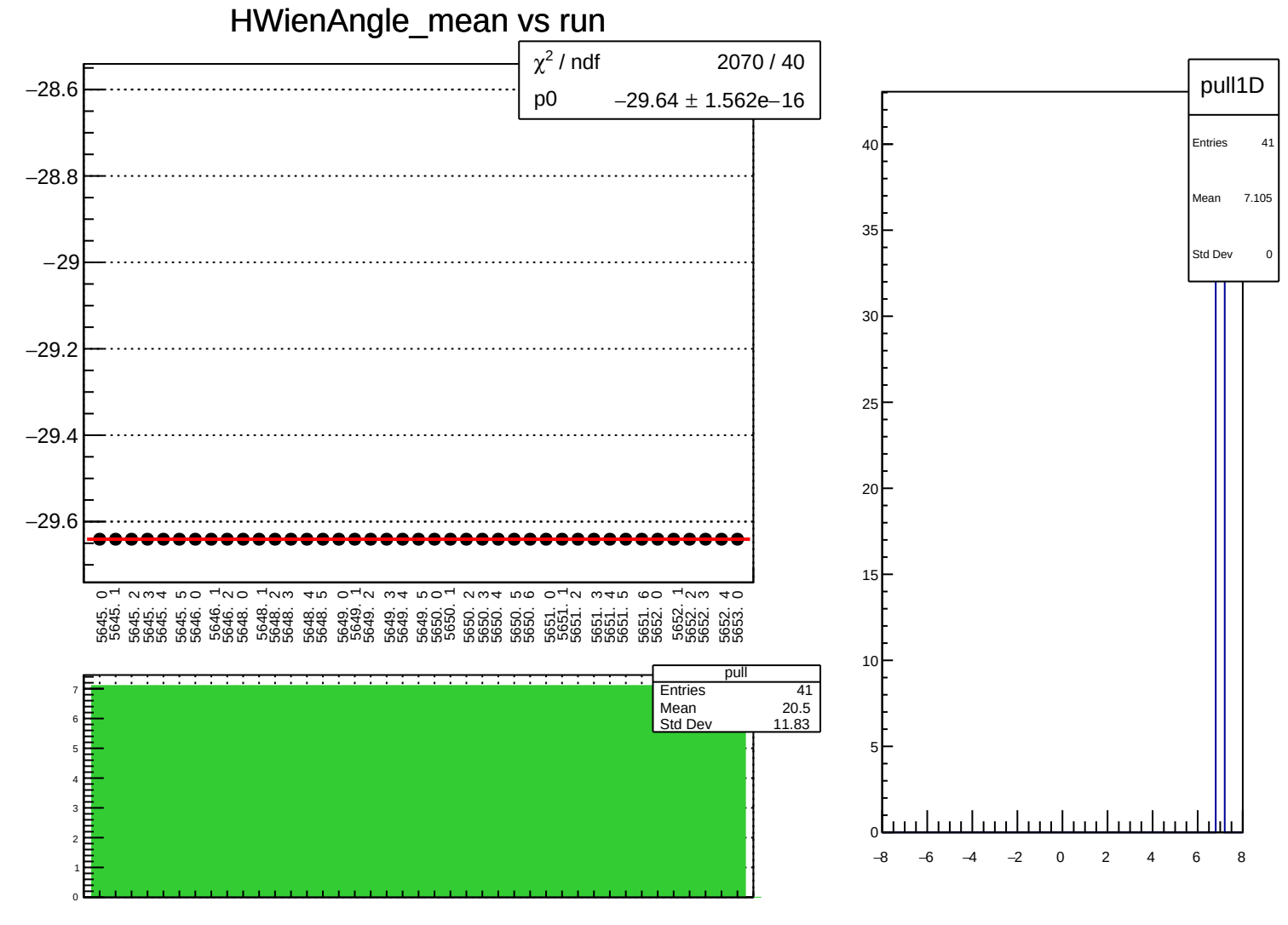

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
9.375
pull
Entries 41
Mean 20.5
Std Dev 11.83

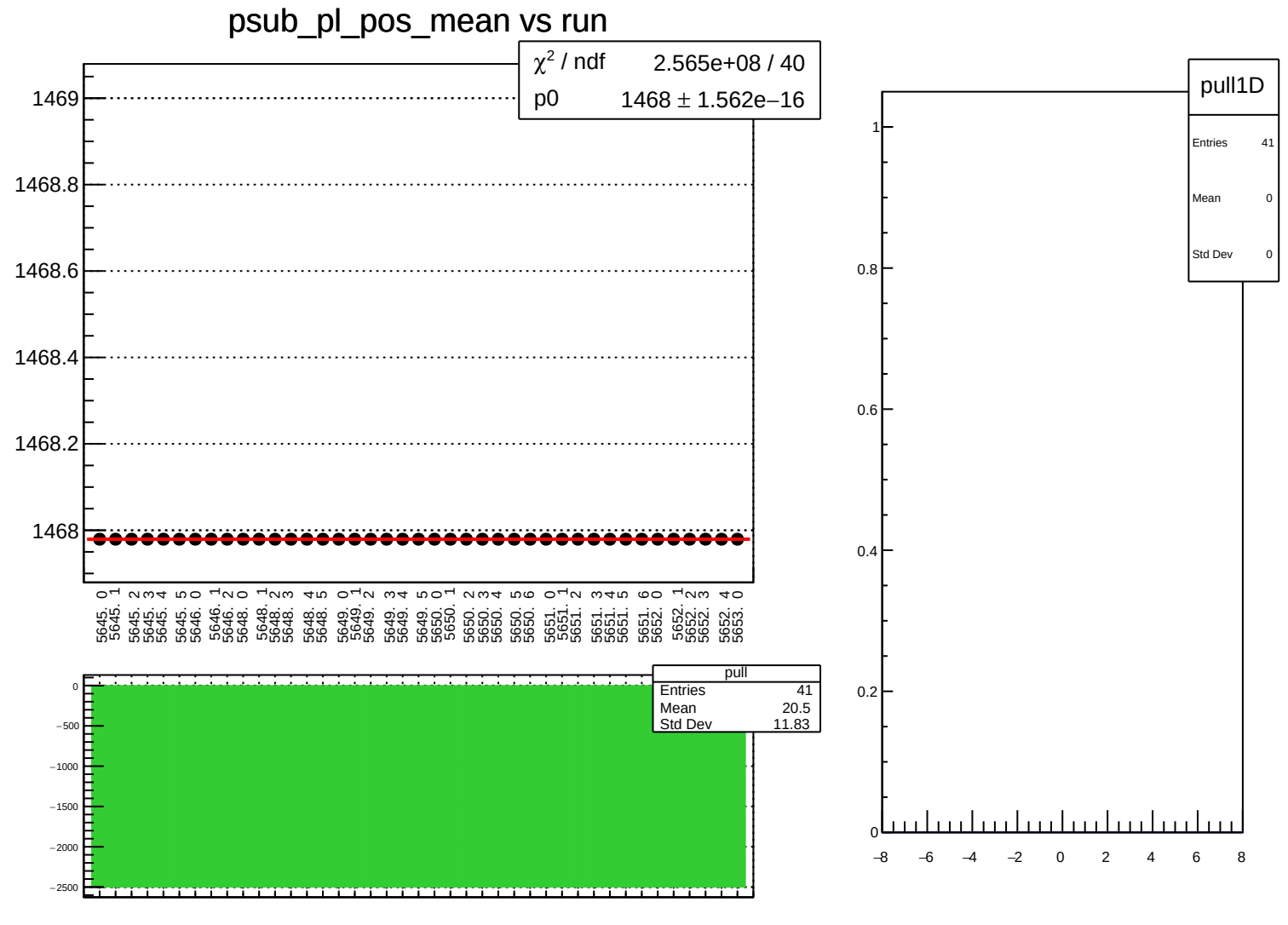

pull1D
Entries 41
Mean −0.003469
Std Dev 0

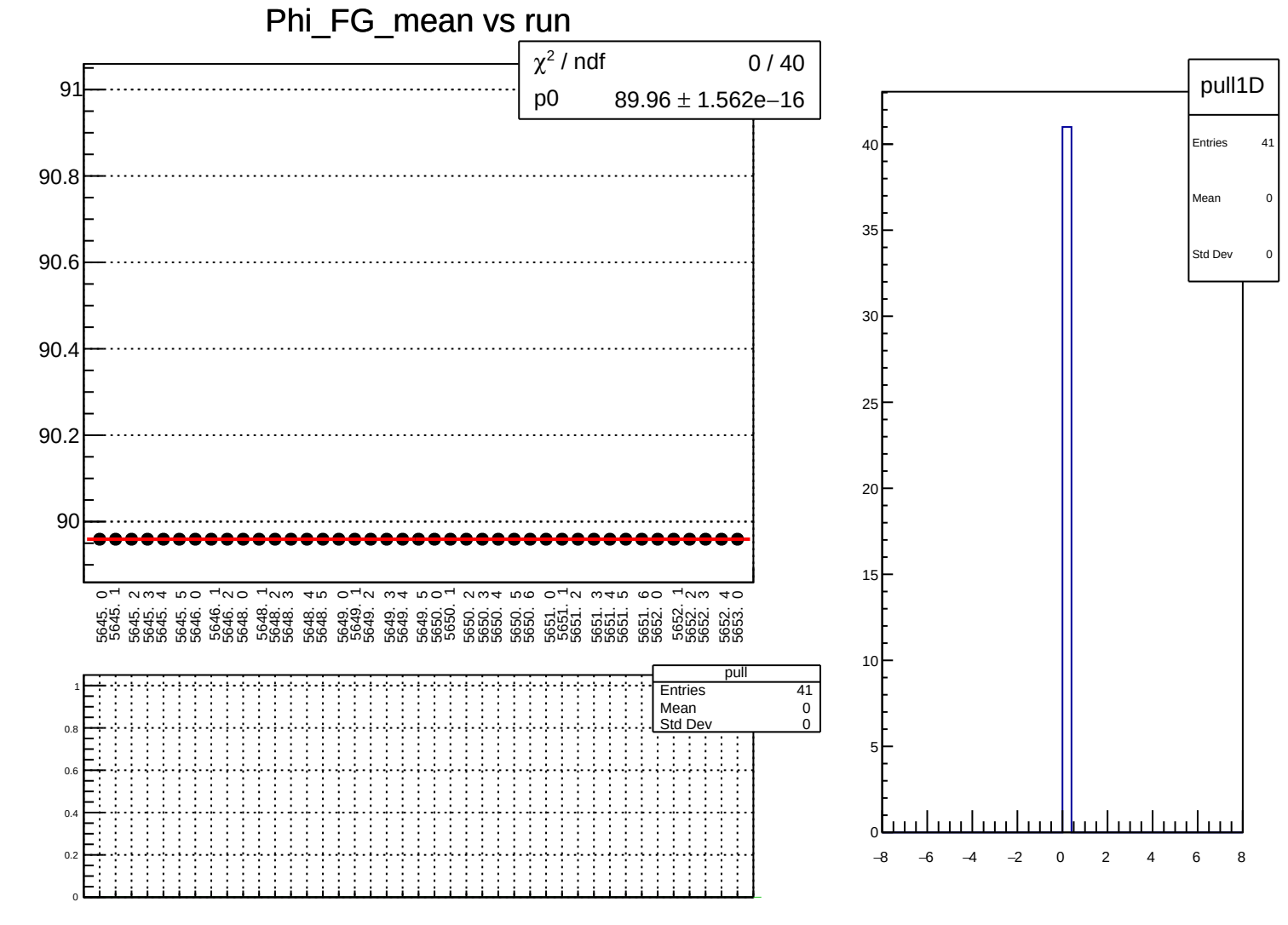

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
pull
Entries 41
Mean 20.5
Std Dev 11.83

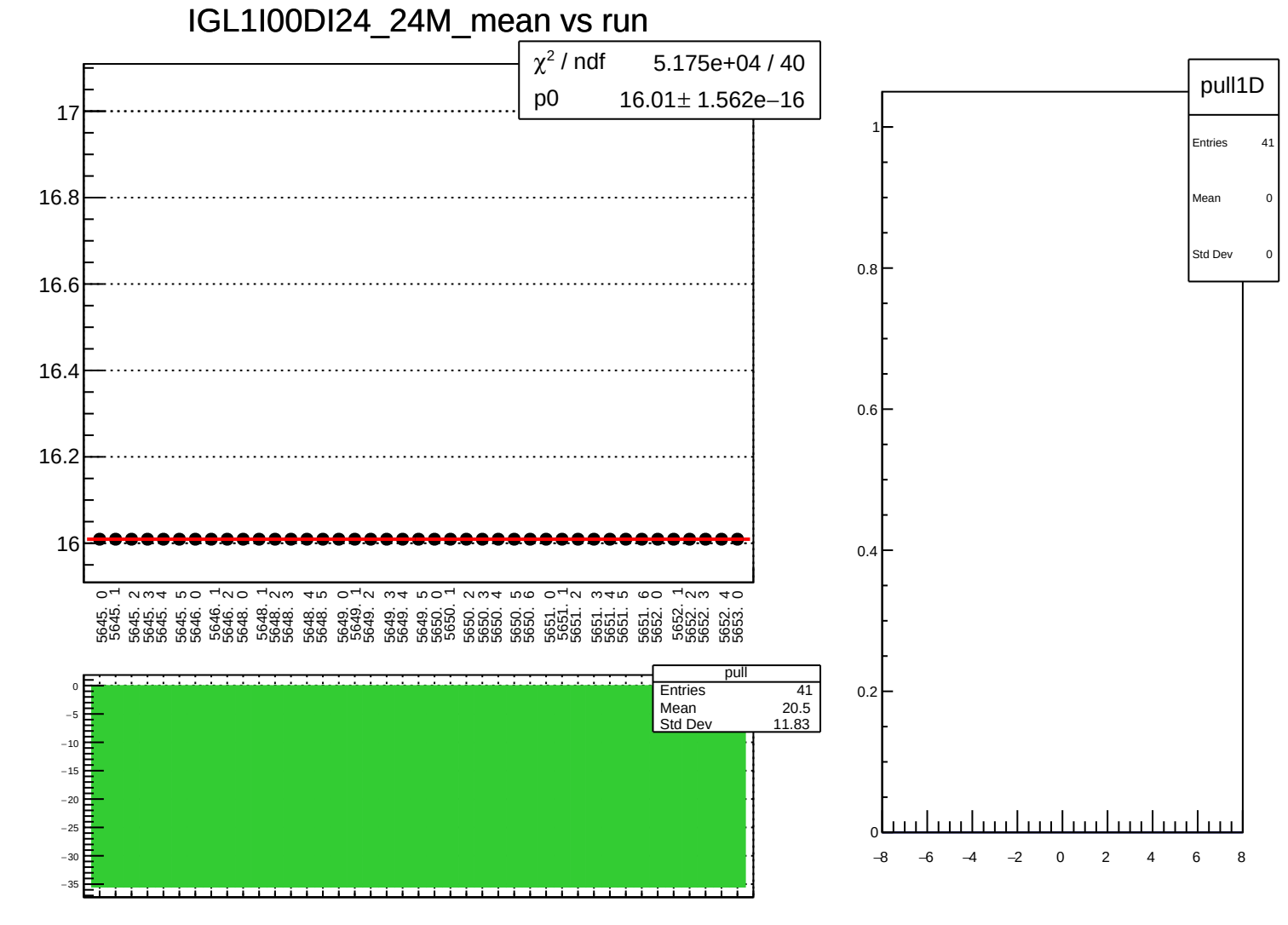

pull1D
Entries 41
Mean −0.003469
Std Dev 0

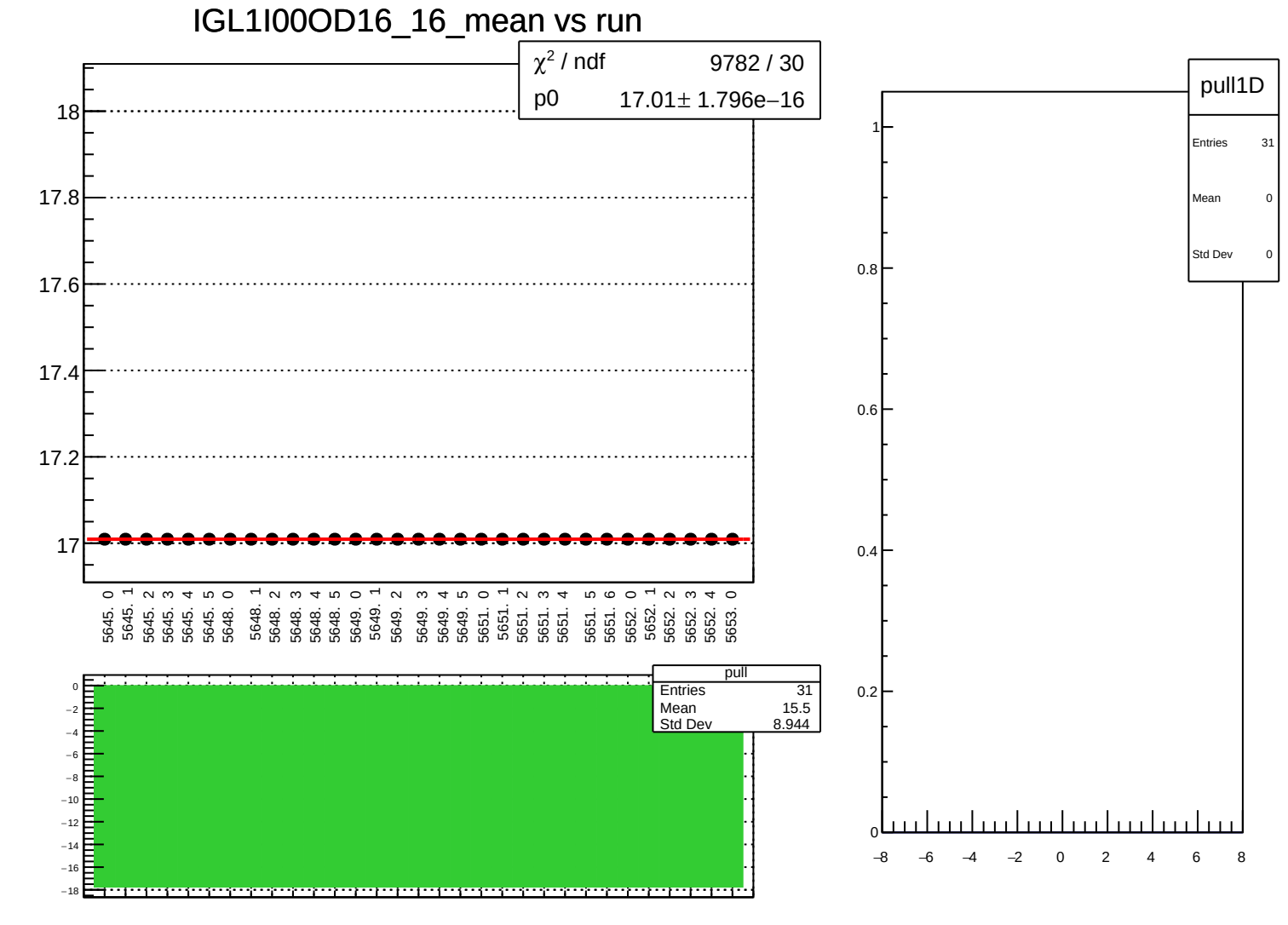

VWienAngle_mean vs run
χ² / ndf 2.07e+05 / 40
p0 88 ± 1.562e−16
89
88.8
88.6
88.4
88.2
88
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

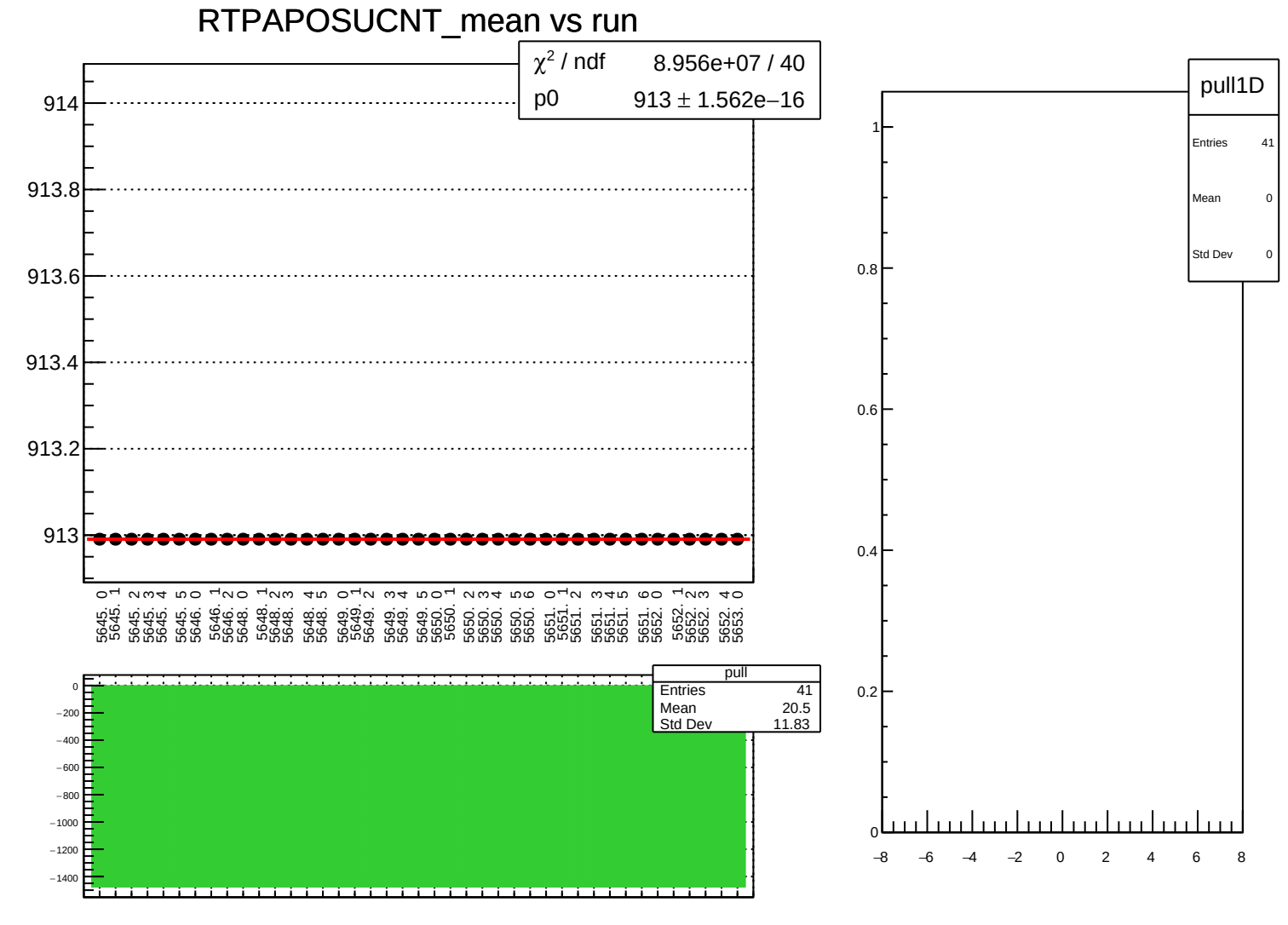

HWienAngle_mean vs run
χ² / ndf 2070 / 40
p0 −29.64 ± 1.562e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
1
2
3
4
5
6
7
pull1D
Entries 41
Mean 7.105
Std Dev 0
0
5
10
15
20
25
30
35
40
−8
−6
−4
−2
0
2
4
6
8

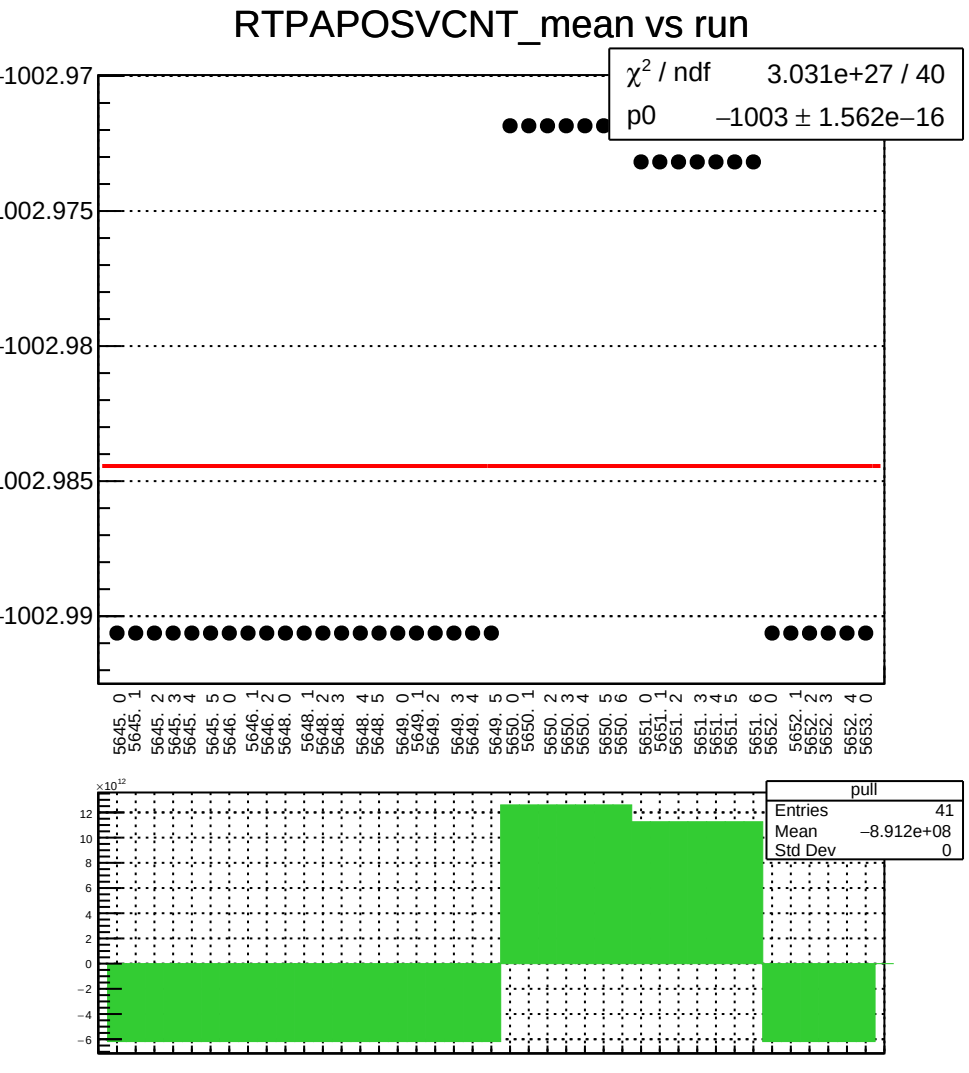

psub_pl_pos_mean vs run
χ² / ndf 2.565e+08 / 40
p0 1468 ± 1.562e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

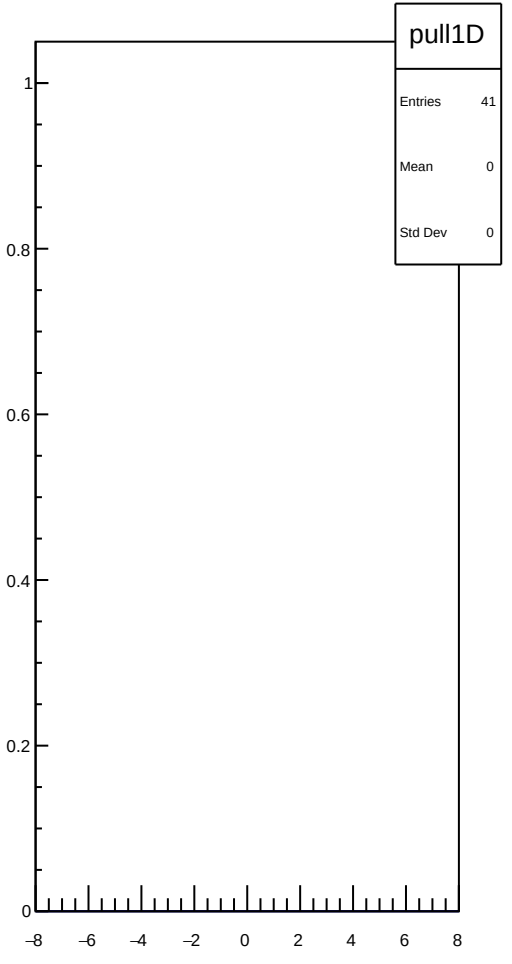

Phi_FG_mean vs run
χ² / ndf 0 / 40
p0 89.96 ± 1.562e−16
91
90.8
90.6
90.4
90.2
90
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 41
Mean 0
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

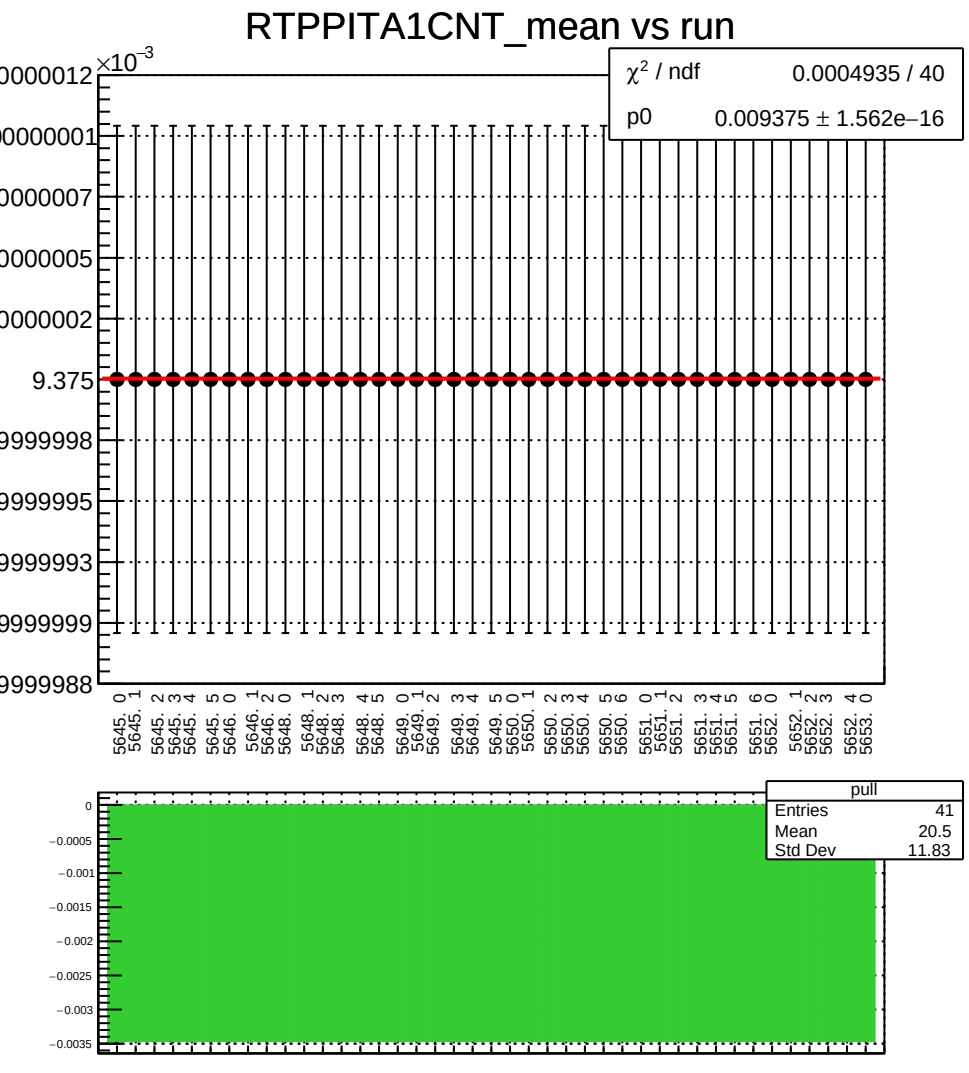

IGL1I00DI24_24M_mean vs run
χ² / ndf 5.175e+04 / 40
p0 16.01± 1.562e−16
17
16.8
16.6
16.4
16.2
16
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

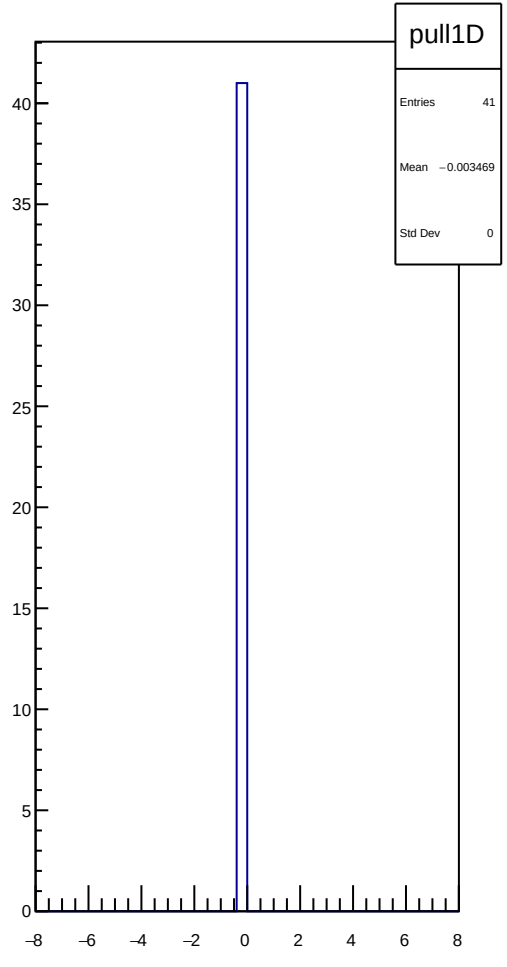

IGL1I00OD16_16_mean vs run
χ² / ndf 9782 / 30
p0 17.01± 1.796e−16
18
17.8
17.6
17.4
17.2
17
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 31
Mean 15.5
Std Dev 8.944
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 31
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

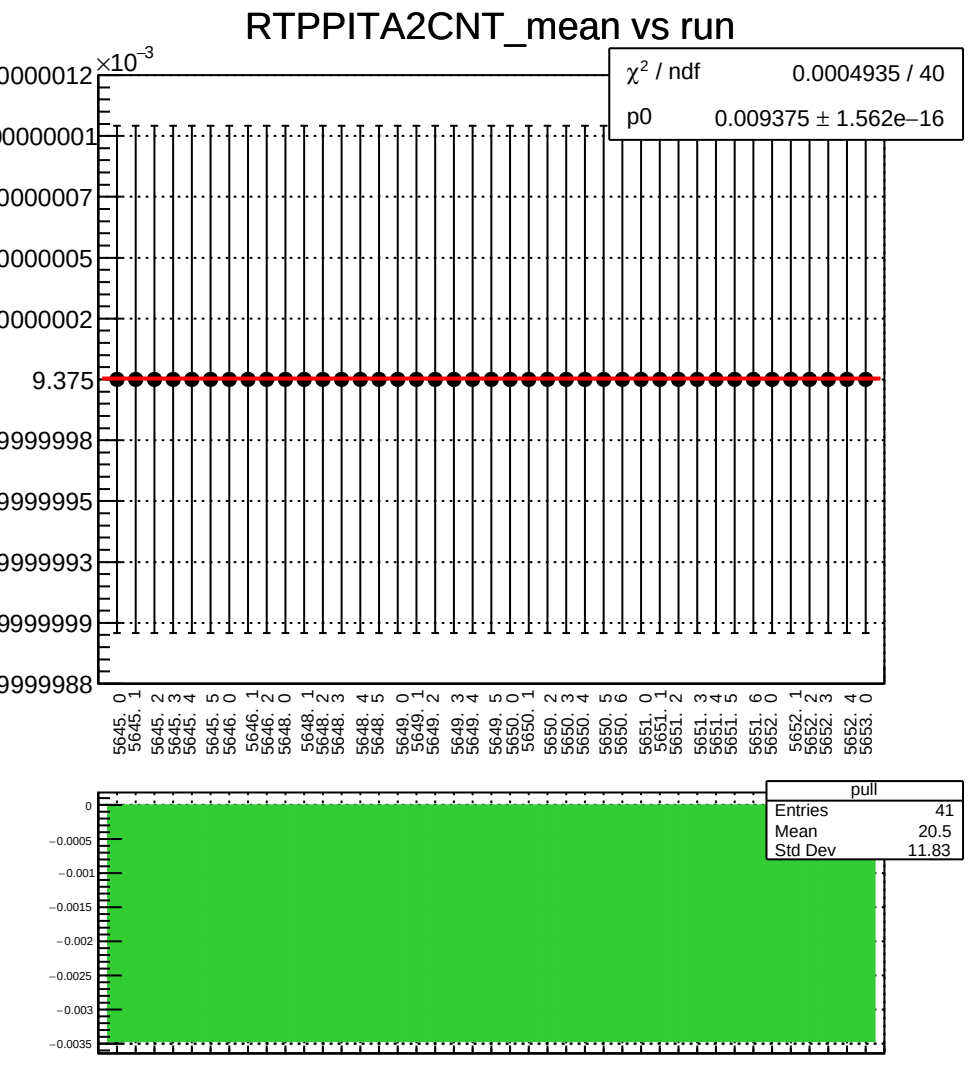

RTPAPOSUCNT_mean vs run
χ² / ndf 8.956e+07 / 40
p0 913 ± 1.562e−16
914
913.8
913.6
913.4
913.2
913
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

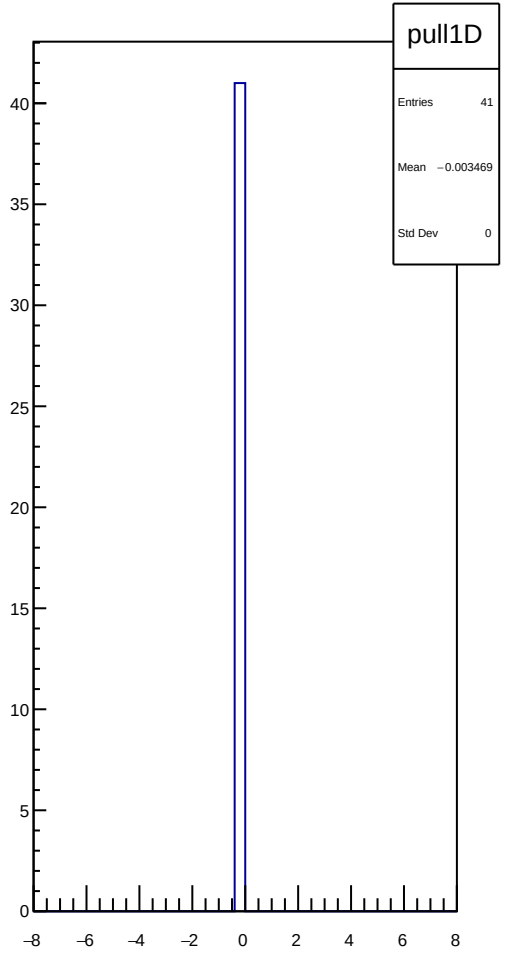

RTPAPOSVCNT_mean vs run
χ² / ndf 3.031e+27 / 40
p0 −1003 ± 1.562e−16
-1002.97
-1002.975
-1002.98
-1002.985
-1002.99
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
×10¹²
12
10
8
6
4
2
0
−2
−4
−6
pull
Entries 41
Mean −8.912e+08
Std Dev 0


pull1D
Entries 41
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
pull
Entries 41
Mean 20.5
Std Dev 11.83


pull1D
Entries 41
Mean −0.003469
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0004935 / 40
p0 0.009375 ± 1.562e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5645. 0
5645. 1
5645. 2
5645. 3
5645. 4
5645. 5
5646. 0
5646. 1
5646. 2
5648. 0
5648. 1
5648. 2
5648. 3
5648. 4
5648. 5
5649. 0
5649. 1
5649. 2
5649. 3
5649. 4
5649. 5
5650. 0
5650. 1
5650. 2
5650. 3
5650. 4
5650. 5
5650. 6
5651. 0
5651. 1
5651. 2
5651. 3
5651. 4
5651. 5
5651. 6
5652. 0
5652. 1
5652. 2
5652. 3
5652. 4
5653. 0
pull
Entries 41
Mean 20.5
Std Dev 11.83
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
−0.0035


pull1D
Entries 41
Mean −0.003469
Std Dev 0
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8